MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

PLANS FOR PROPOSED STATE HIGHWAY

ST. LOUIS COUNTY

U.S. SURVEY NUMBERS 904, 3102 AND 3340

NOT TO SCALE



DESIGN DESIGNATION

RTE. 231 - N/O TELEGRAPH RD

A.A.D.T. - 2025 = 10,531
A.A.D.T. - 2045 = 11,635
D.H.V.: = 9.8%
T = 1%
V = 40 M.P.H.
D (N/S) = 54%

FUNCTIONAL CLASSIFICATION - URBAN MINOR ARTERIAL

RTE. 231 - S/O TELEGRAPH RD

A.A.D.T. - 2025 = 21,856
A.A.D.T. - 2045 = 24,149
D.H.V.: = 9.6%
T = 1%
V = 40 M.P.H.
D (N/S) = 50%

FUNCTIONAL CLASSIFICATION - URBAN MINOR ARTERIAL

NORMAL RIGHT OF WAY WILL BE ACQUIRED FOR THIS PROJECT

CONVENTIONAL SYMBOLS

(USED IN PLANS)

	EXISTING	NEW
BUILDINGS AND STRUCTURES		
GUARD RAIL		
GUARD CABLE		
CONCRETE RIGHT-OF-WAY MARKER		
STEEL RIGHT-OF-WAY MARKER		
LOCATION SURVEY MARKER		
UTILITIES		
FIBER OPTICS	-T/FO-	FO
OVERHEAD CABLE TV	-OTV-	OTV
UNDERGROUND CABLE TV	-UTV-	UTV
OVERHEAD TELEPHONE	-OT-	OT
UNDERGROUND TELEPHONE	-UT-	UT
OVERHEAD POWER	-OE-	OE
UNDERGROUND POWER	-UE-	UE
SANITARY SEWER	-S-	S
STORM SEWER	-SS-	SS
GAS	-G-	G
WATER	-W-	W
SANITARY MANHOLE	SAN	
STORM MANHOLE	STORM	
FIRE HYDRANT	HYD	
WATER VALVE	WV	
WATER METER	WM	
IRRIGATION CONTROL VALVE	ICV	
DROP INLET	DI	
DITCH BLOCK		
GUY WIRE		
GROUND MOUNTED SIGN	SIGN	
LIGHT POLE		
GAS LIGHT POLE	GL	
YARD LIGHT	YL	
UTILITY POLE	PP	
TELEPHONE PEDESTAL	T RISER	
UTILITY PULLBOX		
FENCELINE		
TRAFFIC SIGNAL		
TRUNCATED DOME	TD	
TRAFFIC SIGNAL CONTROL BOX		
BENCHMARK	BM	
USE IN PLACE	(UIP)	
DO NOT DISTURB	(DND)	
REMOVE	(R)	
REMOVE AND RELOCATE	(R&RELOC)	
REMOVE AND REPLACE	(R&R)	
RIGHT OF WAY MARKER	(SRM)	

NOTE: DASHED OR OPEN SYMBOLS INDICATE EXISTING FEATURES

ABBREVIATIONS

R/W = RIGHT OF WAY

PR = PROPOSED

PE = PERMANENT EASEMENT

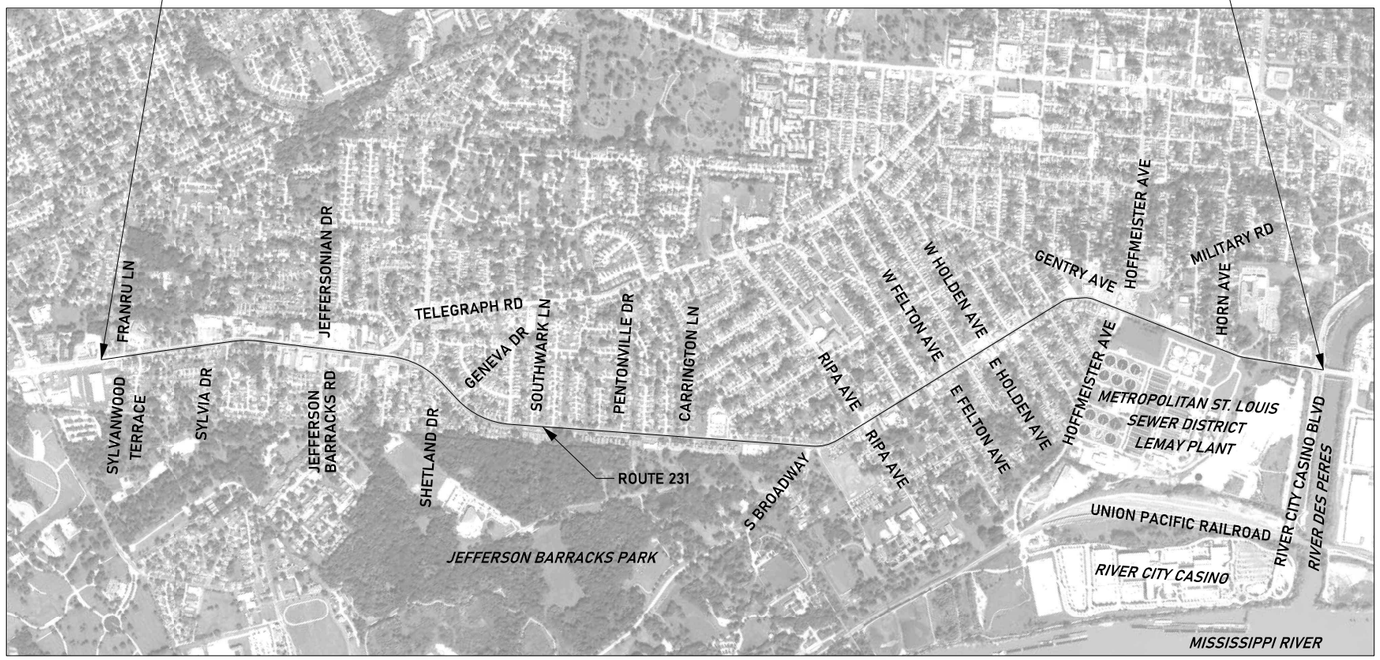
TE = TEMPORARY EASEMENT

LAYOUT	NS	01/2025
DRAWN	SMC	01/2025
REVIEWED	DJK	01/2025

BEGIN PROJECT
ROUTE 231
STA. 13+72.50

SIDEWALKS
PAVING
DRAINAGE
LIGHTING
SIGNALS
SIGNING

END PROJECT
ROUTE 231
STA. 168+15.00



UNDERGROUND UTILITIES HAVE BEEN PLOTTED FROM AVAILABLE INFORMATION AND THEREFORE THEIR LOCATIONS SHALL BE CONSIDERED APPROXIMATE ONLY. THE VERIFICATION OF THE LOCATION OF ALL UNDERGROUND UTILITIES, EITHER SHOWN

OR NOT SHOWN ON THESE PLANS, SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. THEY SHALL BE LOCATED PRIOR TO ANY GRADING OR CONSTRUCTION OF THE IMPROVEMENTS

MISSOURI ONE CALL: 1-800-DIG-RITE (1-800-344-7483)

MSD BASEMAP NUMBERS	MSD PROJECT NUMBER
29H1	24-MSD-00480

THE EXISTENCE AND APPROXIMATE LOCATION OF UTILITY FACILITIES KNOWN TO EXIST, AS SHOWN ON THE PLANS, ARE BASED ON THE BEST INFORMATION AVAILABLE TO THE COMMISSION AT THIS TIME. THIS INFORMATION IS PROVIDED BY THE COMMISSION "AS-IS" AND THE COMMISSION EXPRESSLY DISCLAIMS ANY REPRESENTATION OR WARRANTY AS TO THE COMPLETENESS, ACCURACY, OR SUITABILITY OF THE INFORMATION FOR ANY USE. RELIANCE UPON THIS INFORMATION IS DONE AT THE RISK AND PERIL OF THE USER, AND THE COMMISSION SHALL NOT BE LIABLE FOR ANY DAMAGES THAT MAY ARISE FROM ANY ERROR IN THE INFORMATION. IT IS, THEREFORE, THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY THE EXISTENCE, LOCATION AND STATUS OF ANY FACILITY. SUCH VERIFICATION INCLUDES DIRECT CONTACT WITH THE LISTED UTILITIES.

FOR INFORMATION ONLY
ESTIMATED DISTURBED ACRES 8.4 ACRES

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LENGTH OF PROJECT

BEGINNING OF PROJECT	STA. 13+72.50	
END OF PROJECT	STA. 168+15.00	
APPARENT LENGTH	15442.5	FEET
EQUATIONS AND EXCEPTIONS:	0.00	FEET
TOTAL CORRECTIONS	0.00	FEET
NET LENGTH OF PROJECT	15442.5	FEET
STATE LENGTH	2.925	MILES

STATE OF MISSOURI
DENNIS J KOSCIELSKI
NUMBER PE-2005000712
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED 7/15/2025

ROUTE	STATE
231	MO
DISTRICT	SHEET NO.
SL	1

COUNTY ST. LOUIS

JOB NO. J6S3631

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION	DATE

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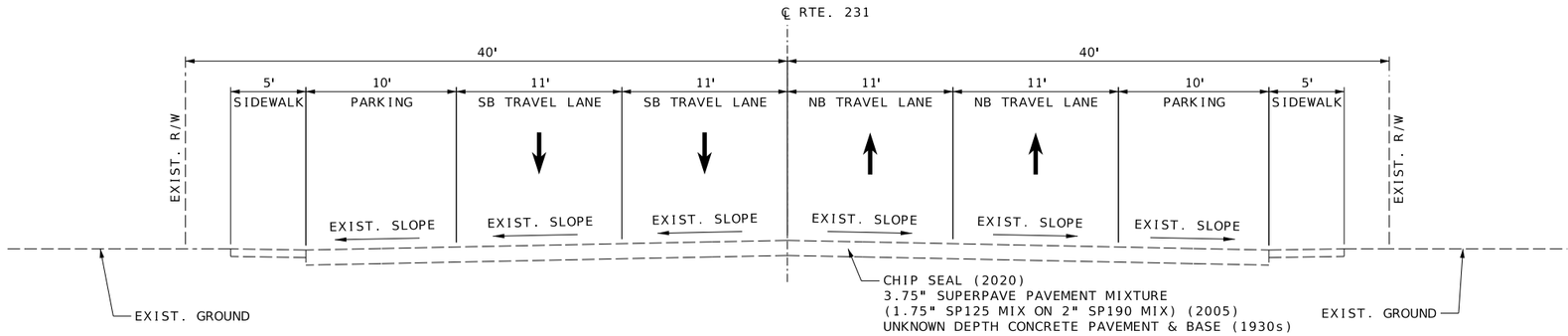
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EXISTING TYPICAL SECTION

ROUTE 231 / TELEGRAPH ROAD
STA. 13+72.50 TO STA. 40+35.80
SEGMENT 1A
NOT TO SCALE

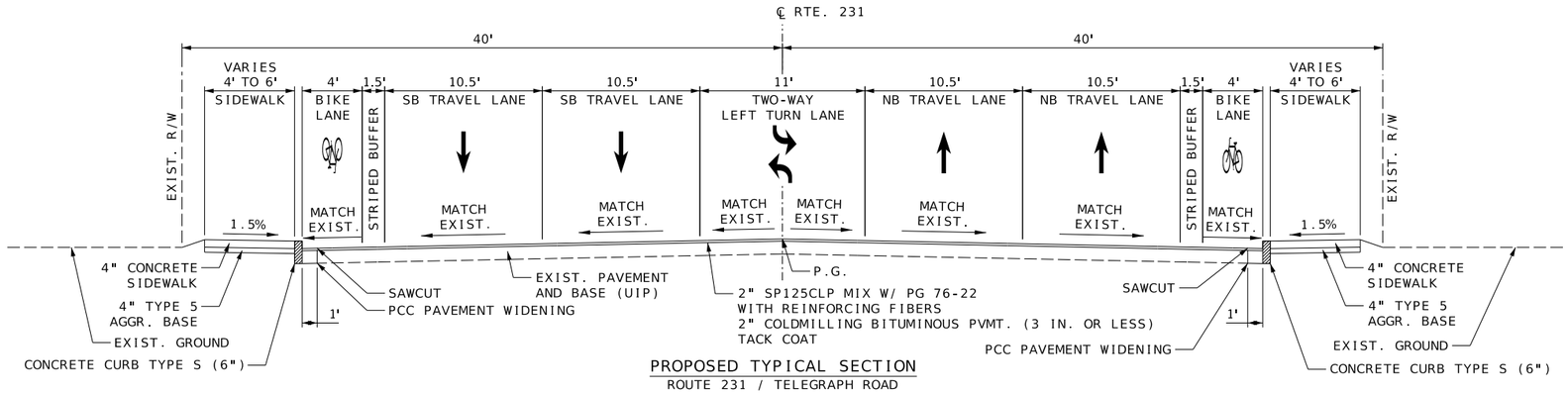
NOTES:

1) OPTION TO CONSTRUCT THE CURB AND PAVEMENT IN A MONOLITHIC POUR. SEE MODIFIED INTEGRAL CURB TYPE S DETAIL.

NOTES:

ALL FILL SLOPES SHALL BE 3:1 MAXIMUM

* MATCH EXISTING CROSS SLOPE



PROPOSED TYPICAL SECTION

ROUTE 231 / TELEGRAPH ROAD
STA. 13+72.50 TO STA. 40+35.80
SEGMENT 1A
NOT TO SCALE

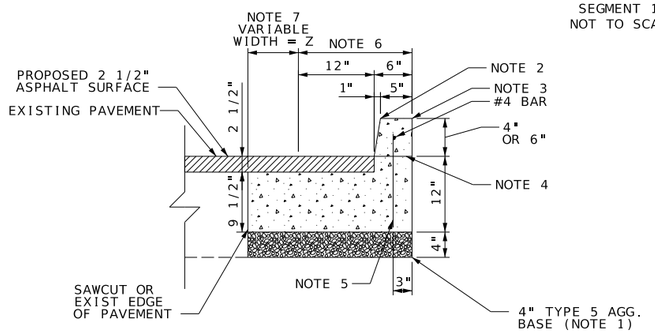
PCC PAVEMENT WIDENING

2-INCHES ASPHALTIC CONCRETE MIXTURE PG76-22 (SP125CLP MIX) WITH REINFORCING FIBERS (1.970 TONS/CY)

TACK COAT (0.05 GAL/SY)

8-INCHES NON-REINFORCED CONCRETE PAVEMENT

4-INCHES TYPE 5 AGGREGATE FOR BASE



MODIFIED INTEGRAL CURB TYPE B DETAIL

MODIFIED INTEGRAL TYPE B CURB DETAIL NOTES

1. TYPE 5 AGGREGATE BASE UNDER MODIFIED INTEGRAL TYPE S CURB. NO DIRECT PAY. INCLUDED IN PAY FOR MODIFIED CONCRETE CURB. (SEE JOB SPECIAL PROVISIONS).
2. ROUND TO 3/4" RADIUS.
3. ROUND TO 1/4" RADIUS.
4. PERMISSIBLE CONSTRUCTION JOINT. IF CONSTRUCTED IN THIS MANNER TIE BARS MUST BE USED.
5. #4 DIAMETER TIE BAR AT 24" CENTERS. LENGTH OF THE TIE BARS EQUALS HEIGHT OF CURB PLUS 9 INCHES. NO DIRECT PAY. INCLUDED IN PAY FOR MODIFIED CONCRETE CURB. (SEE JOB SPECIAL PROVISIONS).
6. PAY LIMIT FOR MODIFIED CONCRETE CURB.
7. PAY LIMIT FOR CONCRETE BASE (8 IN. NON-REINF). SEE QUANTITY TABLES FOR VARIABLE WIDTH = Z.

LAYOUT	NS	01/2025
DRAWN	SMC	01/2025
REVIEWED	DJK	01/2025

TYPICAL SECTIONS
SHEET 1 OF 6

STATE OF MISSOURI
DENNIS J KOSCIELSKI
NUMBER PE-2005000712
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED
7/17/2025

ROUTE	STATE
231	MO
DISTRICT	SHEET NO.
SL	2

COUNTY
ST. LOUIS

JOB NO.
J6S3631

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION	DATE

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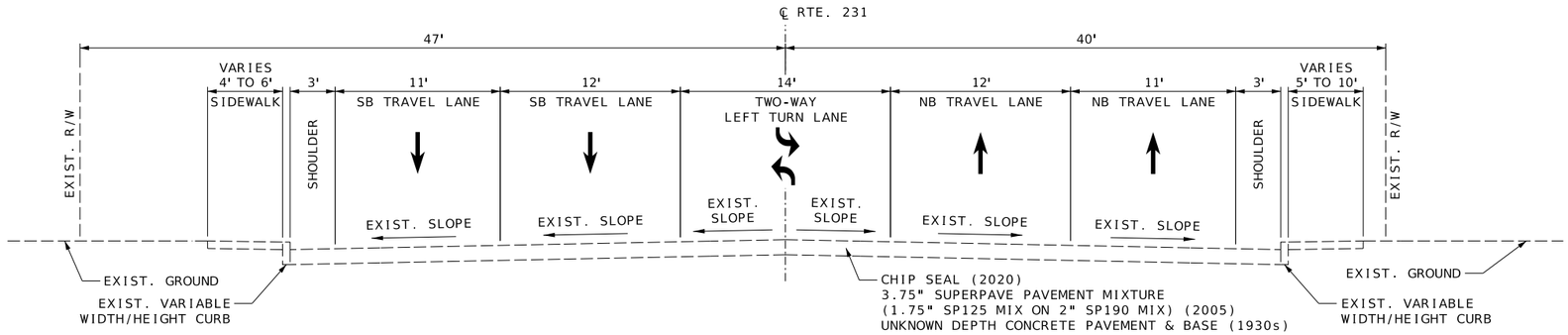
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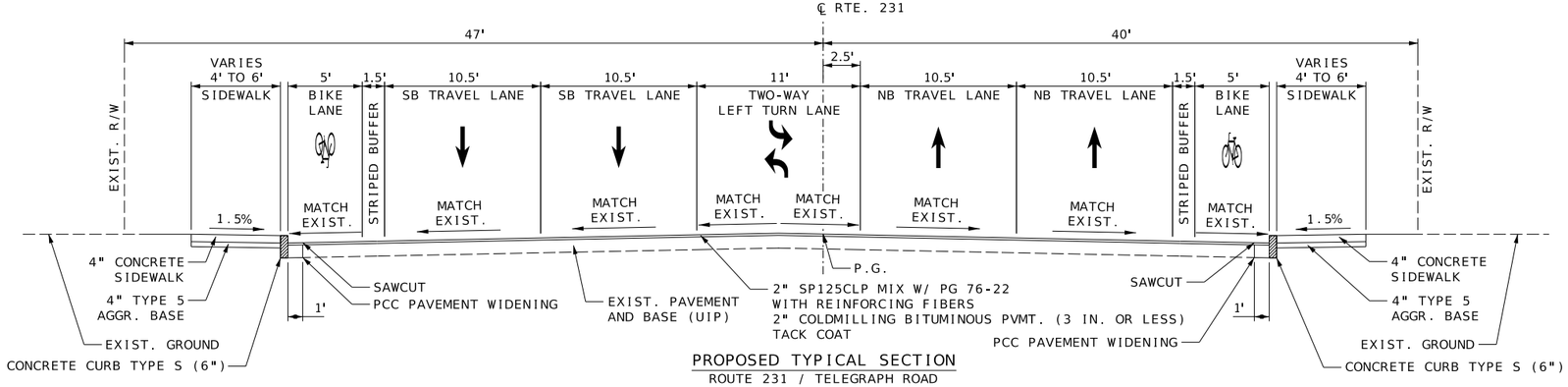
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EXISTING TYPICAL SECTION
ROUTE 231 / TELEGRAPH ROAD
STA. 40+35.80 TO STA. 47+20.57
SEGMENT 1B
NOT TO SCALE

NOTES:
1) OPTION TO CONSTRUCT THE CURB AND PAVEMENT IN A MONOLITHIC POUR. SEE MODIFIED INTEGRAL CURB TYPE S DETAIL.



PROPOSED TYPICAL SECTION
ROUTE 231 / TELEGRAPH ROAD
STA. 40+35.80 TO STA. 47+20.57
SEGMENT 1B
NOT TO SCALE

LAYOUT	NS	01/2025
DRAWN	SMC	01/2025
REVIEWED	DJK	01/2025

TYPICAL SECTIONS
SHEET 2 OF 6

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STATE OF MISSOURI
DENNIS J KOSCIELSKI
NUMBER PE-2005000712
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED
7/15/2025

ROUTE	STATE
231	MO
DISTRICT	SHEET NO.
SL	2

COUNTY
ST. LOUIS

JOB NO.
J6S3631

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION	DATE

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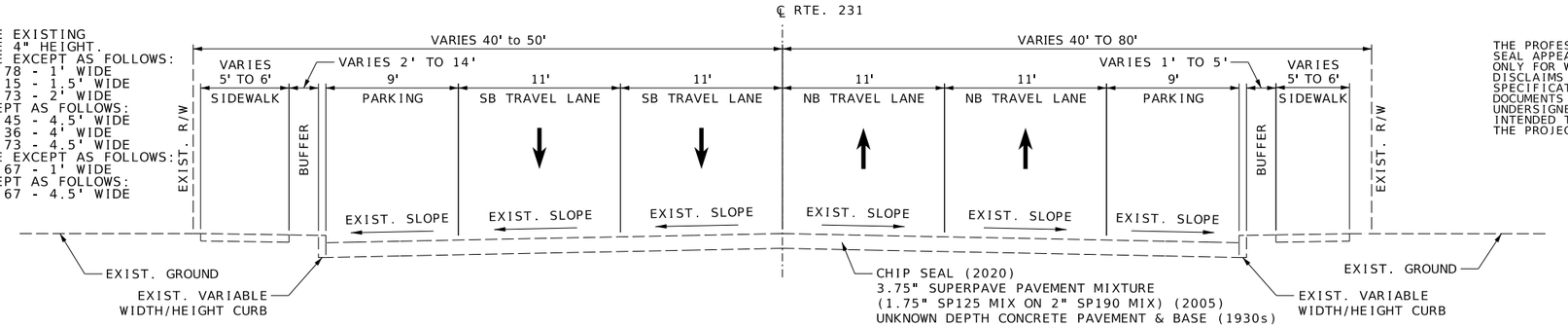
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NOTES:

1) CONTRACTOR SHALL REPLACE THE EXISTING CURB AS NECESSARY TO PROVIDE 4" HEIGHT.
2) STRIPED BUFFER LT IS 2' WIDE EXCEPT AS FOLLOWS:
   STA. 52+93.06 TO STA. 80+72.78 - 1' WIDE
   STA. 81+22.82 TO STA. 83+25.15 - 1.5' WIDE
   STA. 88+31.42 TO STA. 98+61.73 - 2' WIDE
3) BIKE LANE LT IS 5' WIDE EXCEPT AS FOLLOWS:
   STA. 52+93.06 TO STA. 64+71.45 - 4.5' WIDE
   STA. 65+12.14 TO STA. 75+33.36 - 4' WIDE
   STA. 75+82.87 TO STA. 98+61.73 - 4.5' WIDE
4) STRIPED BUFFER RT IS 2' WIDE EXCEPT AS FOLLOWS:
   STA. 51+24.60 TO STA. 66+40.67 - 1' WIDE
5) BIKE LANE RT IS 5' WIDE EXCEPT AS FOLLOWS:
   STA. 51+24.60 TO STA. 66+40.67 - 4.5' WIDE

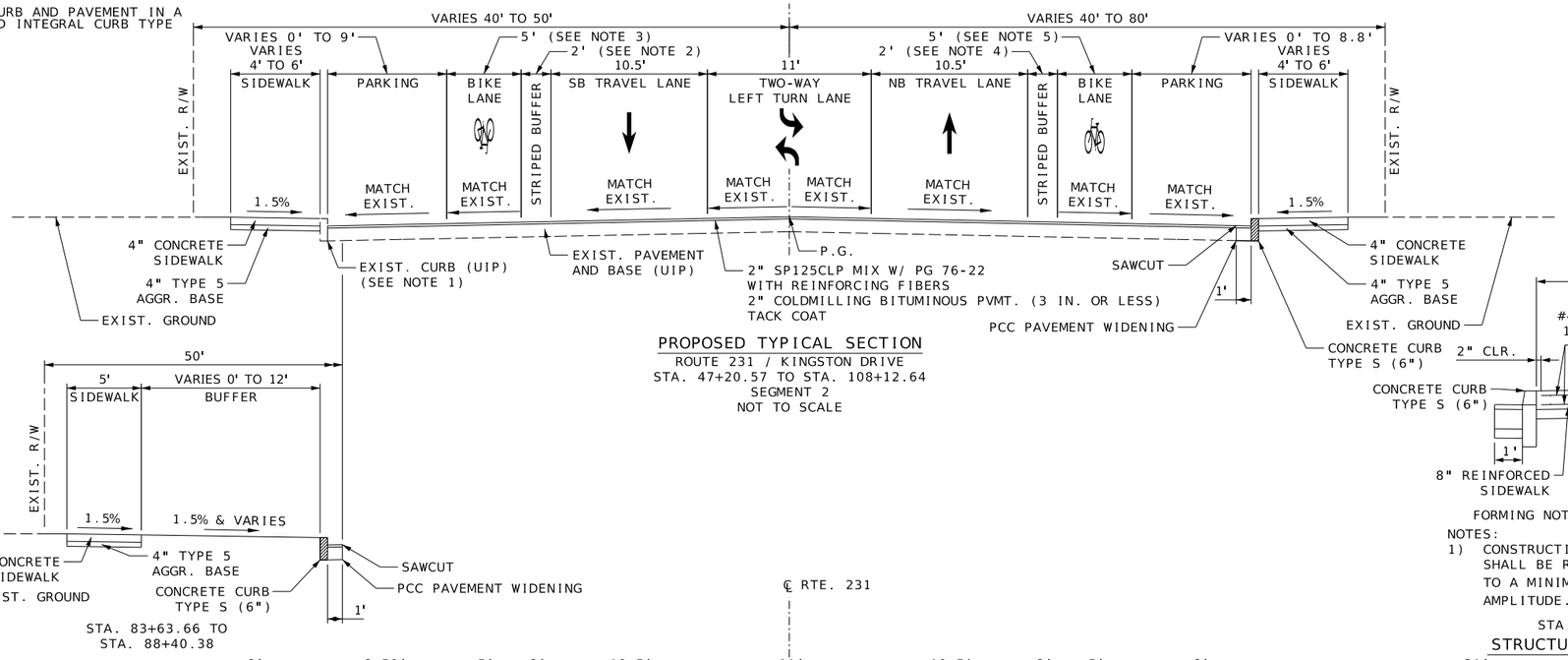


EXISTING TYPICAL SECTION

ROUTE 231 / KINGSTON DRIVE
STA. 47+20.57 TO STA. 108+12.64
SEGMENT 2
NOT TO SCALE

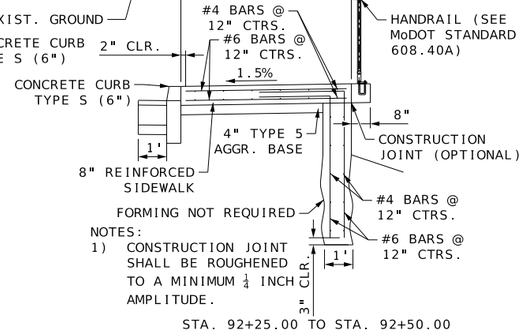
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NOTES:
1) OPTION TO CONSTRUCT THE CURB AND PAVEMENT IN A MONOLITHIC POUR. SEE MODIFIED INTEGRAL CURB TYPE S DETAIL.

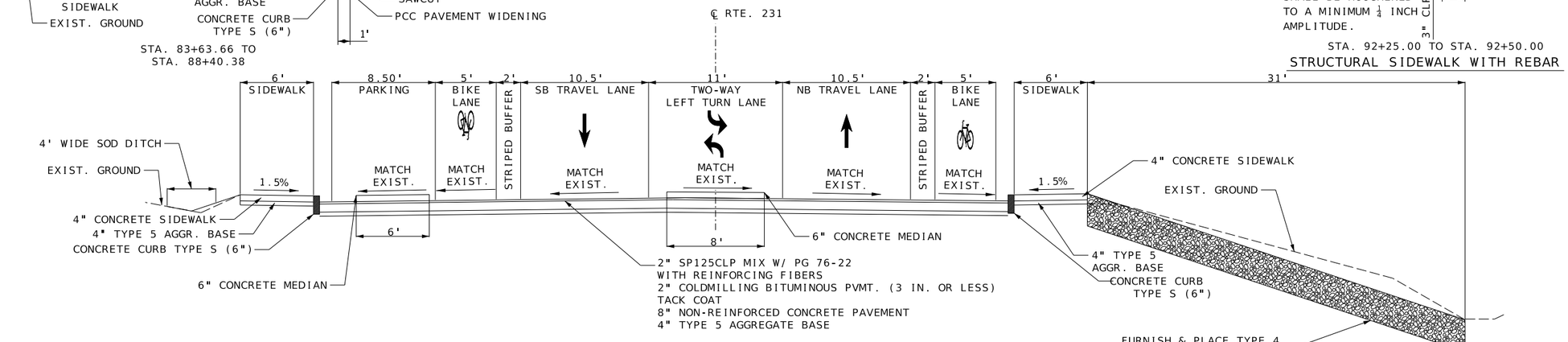


PROPOSED TYPICAL SECTION

ROUTE 231 / KINGSTON DRIVE
STA. 47+20.57 TO STA. 108+12.64
SEGMENT 2
NOT TO SCALE



STRUCTURAL SIDEWALK WITH REBAR



PROPOSED TYPICAL SECTION

MID-BLOCK CROSSWALK
STA. 71+28.69
NOT TO SCALE

TYPICAL SECTIONS
SHEET 3 OF 6

LAYOUT	NS	01/2025
DRAWN	SMC	01/2025
REVIEWED	DJK	01/2025

DENNIS J. KOSCIELSKI
NUMBER PE-2005000712
PROFESSIONAL ENGINEER
STATE OF MISSOURI

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED: 7/15/2025
ROUTE: 231
STATE: MO
DISTRICT: SL
SHEET NO.: 2
COUNTY: ST. LOUIS
JOB NO.: J6S3631
CONTRACT ID.:
PROJECT NO.:
BRIDGE NO.:

DESCRIPTION | DATE

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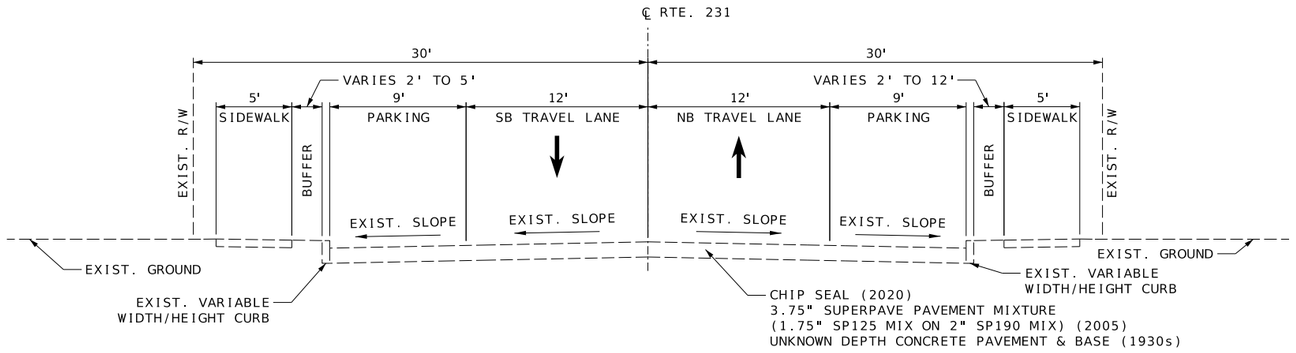
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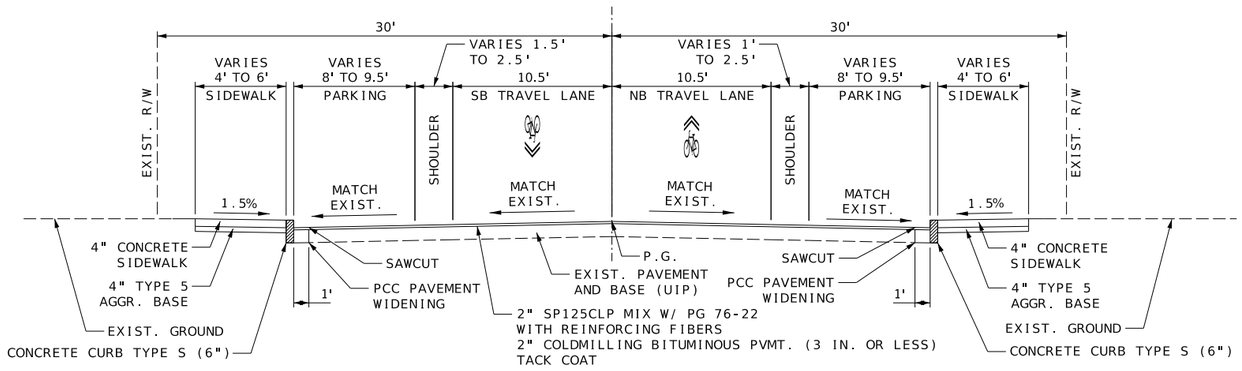
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EXISTING TYPICAL SECTION

ROUTE 231 / S BROADWAY STREET
STA. 108+12.64 TO STA. 143+27.91
SEGMENT 3
NOT TO SCALE

NOTES:
1) OPTION TO CONSTRUCT THE CURB AND PAVEMENT IN A MONOLITHIC POUR. SEE MODIFIED INTEGRAL CURB TYPE S DETAIL.



PROPOSED TYPICAL SECTION

ROUTE 231 / S BROADWAY STREET
STA. 108+12.64 TO STA. 143+27.91
SEGMENT 3
NOT TO SCALE

LAYOUT	NS	01/2025
DRAWN	SMC	01/2025
REVIEWED	DJK	01/2025

TYPICAL SECTIONS
SHEET 4 OF 6

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STATE OF MISSOURI
DENNIS J KOSCIELSKI
NUMBER PE-2005000712
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED
7/15/2025

ROUTE	STATE
231	MO
DISTRICT	SHEET NO.
SL	2

COUNTY
ST. LOUIS

JOB NO.
J6S3631

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION	DATE

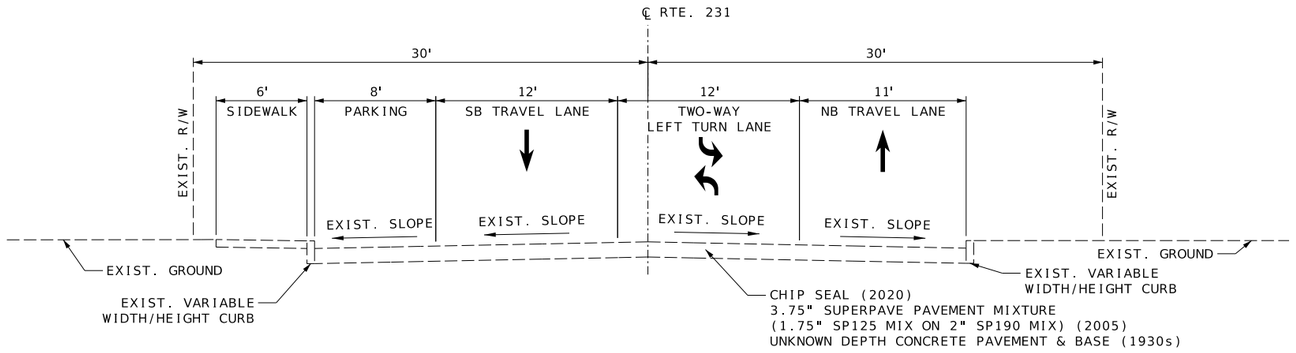
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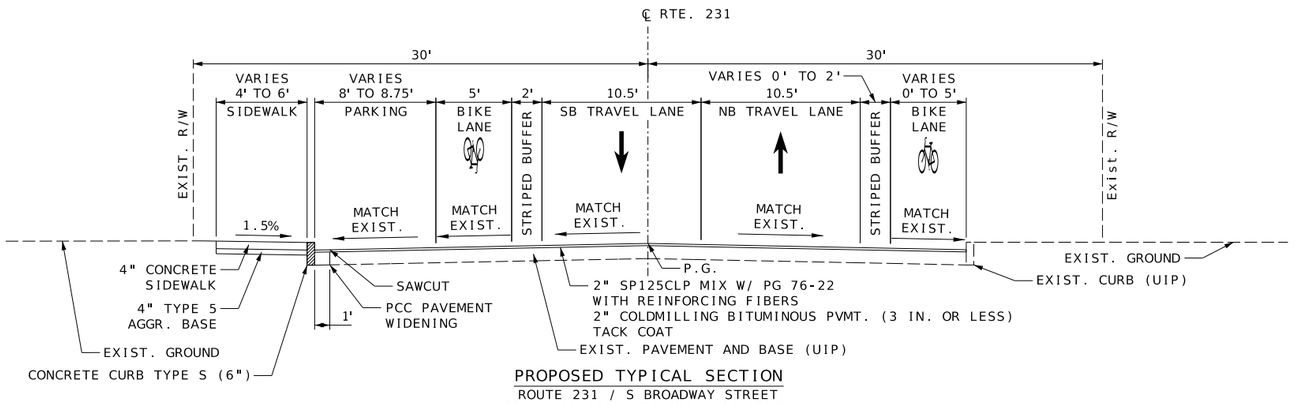
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EXISTING TYPICAL SECTION
ROUTE 231 / S BROADWAY STREET
STA. 143+27.91 TO STA. 168+15.00
SEGMENT 4
NOT TO SCALE

NOTES:
1) OPTION TO CONSTRUCT THE CURB AND PAVEMENT IN A MONOLITHIC POUR. SEE MODIFIED INTEGRAL CURB TYPE S DETAIL.



PROPOSED TYPICAL SECTION
ROUTE 231 / S BROADWAY STREET
STA. 143+27.91 TO STA. 168+15.00
SEGMENT 4
NOT TO SCALE

LAYOUT	NS	01/2025
DRAWN	SMC	01/2025
REVIEWED	DJK	01/2025

STATE OF MISSOURI
DENNIS J KOSCIELSKI
NUMBER PE-2005000712
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED
7/15/2025

ROUTE	STATE
231	MO
DISTRICT	SHEET NO.
SL	2

COUNTY
ST. LOUIS

JOB NO.
J6S3631

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION	DATE

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

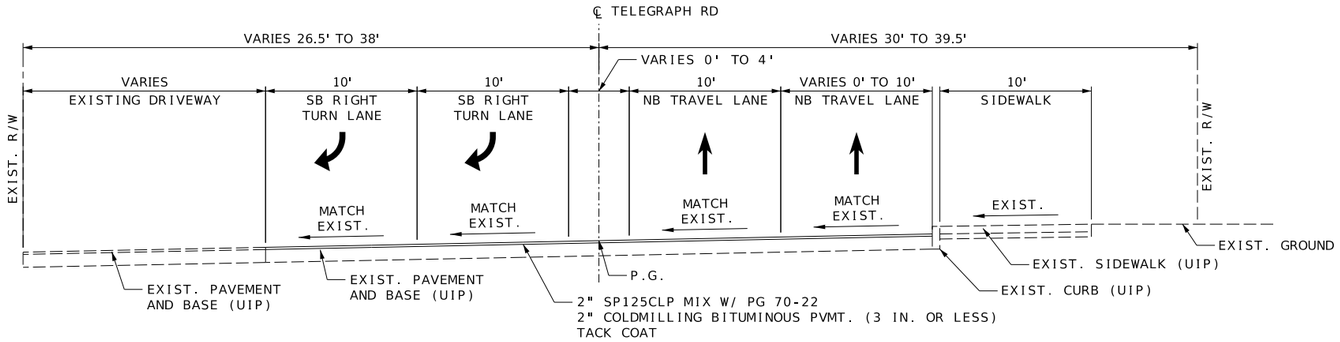
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TYPICAL SECTIONS
SHEET 5 OF 6

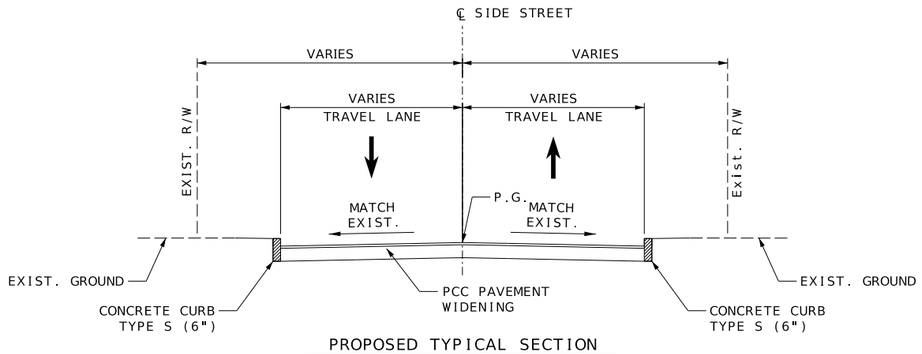
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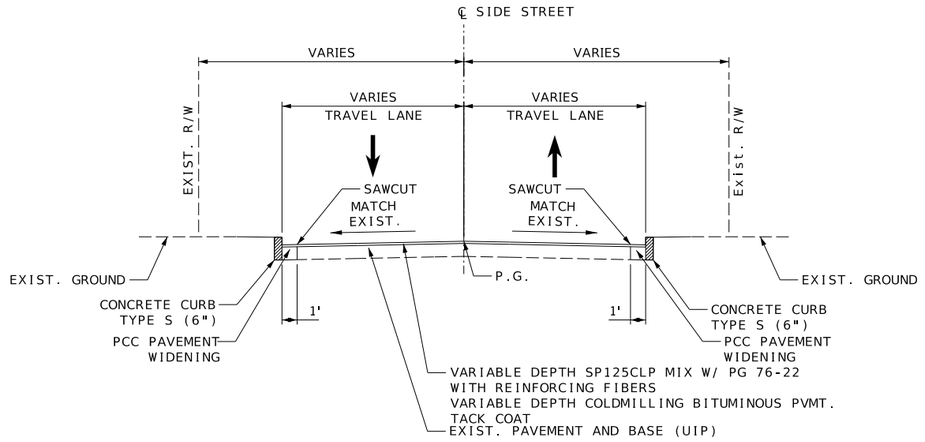


PROPOSED TYPICAL SECTION
TELEGRAPH ROAD
STA. 51+02.35 TO STA. 52+88.31
NOT TO SCALE

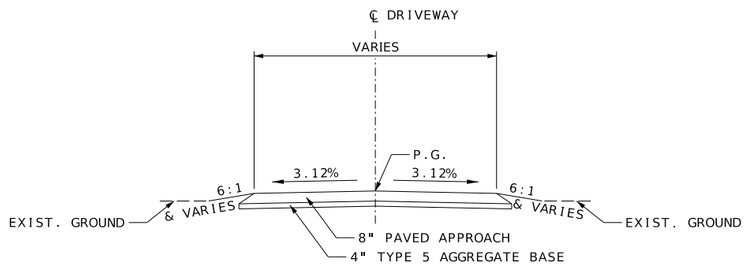
NOTES:
1) OPTION TO CONSTRUCT THE CURB AND PAVEMENT IN A MONOLITHIC POUR. SEE MODIFIED INTEGRAL CURB TYPE S DETAIL



PROPOSED TYPICAL SECTION
SIDE STREETS - FULL DEPTH PAVEMENT
NOT TO SCALE



PROPOSED TYPICAL SECTION
SIDE STREETS - COLDMILLING, OVERLAY, AND WIDENING
NOT TO SCALE



PROPOSED TYPICAL SECTION
DRIVEWAYS - TYPE I
NOT TO SCALE

TYPICAL SECTIONS
SHEET 6 OF 6

LAYOUT	NS	01/2025
DRAWN	SMC	01/2025
REVIEWED	DJK	01/2025

STATE OF MISSOURI
DENNIS J KOSCIELSKI
NUMBER PE-2005000712
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED
7/15/2025

ROUTE	STATE
231	MO
DISTRICT	SHEET NO.
SL	2

COUNTY
ST. LOUIS

JOB NO.
J6S3631

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION	DATE

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

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REMOVAL OF IMPROVEMENTS - 1 LUMP SUM

SHEET NO.	PLAN SHEET	ROADWAY	CENTER LINE	STATION FROM	STATION TO	LOCATION	LENGTH (FEET)	WIDTH (FEET)	AREA (SF)	AREA (SY)	EACH	DESCRIPTION OF REMOVAL
4	1 OF 31	RTE 231/TELEGRAPH	RTE 231	14+21.21	14+69.44	LEFT	12.50	48.30	386.30	43.00	-	CONCRETE DRIVEWAY
4	1 OF 31	RTE 231/TELEGRAPH	RTE 231	15+10.48	15+60.15	RIGHT	9.50	49.70	316.90	35.30	-	CONCRETE DRIVEWAY
4	1 OF 31	RTE 231/TELEGRAPH	RTE 231	15+59.98	15+94.15	RIGHT	34.20	0.90	30.80	3.50	-	CONCRETE CURB
4	1 OF 31	RTE 231/TELEGRAPH	RTE 231	15+87.11	-	RIGHT	-	-	-	-	1	EXISTING SIGN
4	1 OF 31	RTE 231/TELEGRAPH	RTE 231	15+95.26	16+01.37	LEFT	7.60	6.20	47.20	5.30	-	CONCRETE CURB RAMP
4	1 OF 31	RTE 231/TELEGRAPH	RTE 231	15+97.13	16+02.13	LEFT	21.00	5.00	105.00	11.70	-	CONCRETE SIDEWALK
4	1 OF 31	RTE 231/TELEGRAPH	RTE 231	16+03.76	-	LEFT	-	-	-	-	1	EXISTING SIGN
4	1 OF 31	FRANRU	FRANRU	10+63.40	10+68.40	RIGHT	7.00	5.00	35.00	3.90	-	CONCRETE CURB RAMP
4	1 OF 31	RTE 231/TELEGRAPH	RTE 231	16+43.47	17+84.30	LEFT	5.00	140.90	704.50	78.30	-	CONCRETE SIDEWALK
4	1 OF 31	RTE 231/TELEGRAPH	RTE 231	16+63.65	-	LEFT	-	-	-	-	1	TREE
4	1 OF 31	RTE 231/TELEGRAPH	RTE 231	16+64.91	16+89.99	LEFT	-	-	-	-	20	SHRUBS
4	1 OF 31	RTE 231/TELEGRAPH	RTE 231	16+69.95	16+90.92	RIGHT	6.50	21.00	78.30	8.70	-	CONCRETE DRIVEWAY
4	1 OF 31	RTE 231/TELEGRAPH	RTE 231	16+87.20	16+92.47	LEFT	3.30	5.30	17.50	2.00	-	CONCRETE CURB RAMP
4	1 OF 31	RTE 231/TELEGRAPH	RTE 231	16+92.47	17+75.00	LEFT	82.60	0.90	74.40	8.30	-	CONCRETE CURB
4	1 OF 31	RTE 231/TELEGRAPH	RTE 231	16+98.92	17+14.83	RIGHT	5.00	16.00	80.00	8.90	-	CONCRETE SIDEWALK
4	1 OF 31	RTE 231/TELEGRAPH	RTE 231	17+38.87	17+76.07	LEFT	5.00	37.20	186.00	20.70	-	CONCRETE SIDEWALK
5	2 OF 31	RTE 231/TELEGRAPH	RTE 231	17+75.00	17+98.00	RIGHT	23.00	0.90	20.70	2.30	-	CONCRETE CURB
5	2 OF 31	RTE 231/TELEGRAPH	RTE 231	17+75.00	17+84.55	LEFT	9.60	0.90	8.70	1.00	-	CONCRETE CURB
5	2 OF 31	RTE 231/TELEGRAPH	RTE 231	17+81.05	18+59.90	LEFT	6.50	78.90	395.30	44.00	-	ASPHALT DRIVEWAY
5	2 OF 31	RTE 231/TELEGRAPH	RTE 231	18+06.84	18+27.54	LEFT	4.70	20.70	83.00	9.30	-	ISLAND
5	2 OF 31	RTE 231/TELEGRAPH	RTE 231	18+09.85	-	LEFT	-	-	-	-	1	EXISTING SIGN
5	2 OF 31	RTE 231/TELEGRAPH	RTE 231	18+49.07	20+08.51	LEFT	5.00	159.50	797.50	88.70	-	CONCRETE SIDEWALK
5	2 OF 31	RTE 231/TELEGRAPH	RTE 231	18+51.76	19+42.30	RIGHT	5.00	90.60	453.00	50.40	-	CONCRETE SIDEWALK
5	2 OF 31	RTE 231/TELEGRAPH	RTE 231	18+53.78	20+20.02	LEFT	166.30	0.90	149.70	16.70	-	CONCRETE CURB
5	2 OF 31	RTE 231/TELEGRAPH	RTE 231	18+97.15	-	LEFT	-	-	-	-	1	EXISTING SIGN
5	2 OF 31	RTE 231/TELEGRAPH	RTE 231	19+42.30	19+67.00	RIGHT	6.50	24.70	113.10	12.60	-	CONCRETE DRIVEWAY
5	2 OF 31	RTE 231/TELEGRAPH	RTE 231	19+67.00	19+86.06	RIGHT	6.50	19.10	100.80	11.20	-	CONCRETE DRIVEWAY
5	2 OF 31	RTE 231/TELEGRAPH	RTE 231	19+82.57	20+32.49	RIGHT	-	-	-	-	24	SHRUBS
5	2 OF 31	RTE 231/TELEGRAPH	RTE 231	20+25.60	-	RIGHT	-	-	-	-	1	EXISTING SIGN
5	2 OF 31	RTE 231/TELEGRAPH	RTE 231	20+34.50	-	LEFT	-	-	-	-	1	FIRE HYDRANT
5	2 OF 31	RTE 231/TELEGRAPH	RTE 231	20+38.31	-	RIGHT	-	-	-	-	1	FIRE HYDRANT
5	2 OF 31	RTE 231/TELEGRAPH	RTE 231	20+51.19	-	RIGHT	-	-	-	-	1	SHRUBS
5	2 OF 31	RTE 231/TELEGRAPH	RTE 231	20+54.08	20+80.10	LEFT	30.50	26.10	422.30	47.00	-	CONCRETE DRIVEWAY
5	2 OF 31	RTE 231/TELEGRAPH	RTE 231	20+85.67	-	RIGHT	-	-	-	-	1	EXISTING SIGN
5	2 OF 31	RTE 231/TELEGRAPH	RTE 231	20+97.16	-	RIGHT	-	-	-	-	1	EXISTING SIGN
5	2 OF 31	SYLVIA	SYLVIA	20+27.00	20+60.76	LEFT	33.80	0.90	30.50	3.40	-	CONCRETE CURB
5	2 OF 31	SYLVIA	SYLVIA	20+27.00	20+62.52	RIGHT	35.60	0.90	32.10	3.60	-	CONCRETE CURB
5	2 OF 31	RTE 231/TELEGRAPH	RTE 231	21+28.18	-	RIGHT	-	-	-	-	1	EXISTING SIGN
5	2 OF 31	RTE 231/TELEGRAPH	RTE 231	21+42.59	21+67.91	LEFT	6.50	25.40	87.40	9.80	-	CONCRETE DRIVEWAY
5	2 OF 31	RTE 231/TELEGRAPH	RTE 231	21+27.74	21+47.86	RIGHT	20.20	-	-	-	-	FENCE
5	2 OF 31	RTE 231/TELEGRAPH	RTE 231	21+52.32	21+89.76	RIGHT	37.50	-	-	-	-	FENCE
5	2 OF 31	RTE 231/TELEGRAPH	RTE 231	21+76.19	22+05.40	LEFT	6.50	29.30	128.90	14.40	-	CONCRETE DRIVEWAY
												-

SUMMARY OF QUANTITIES
SHEET 1 OF 106

STATE OF MISSOURI
DENNIS J KOSCIELSKI
NUMBER PE-2005000712
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED 7/25/2025
ROUTE 231 | STATE MO
DISTRICT SL | SHEET NO. 3
COUNTY ST. LOUIS
JOB NO. J6S3631
CONTRACT ID.
PROJECT NO.
BRIDGE NO.

DESCRIPTION	DATE

IF A SEAL IS PRESENT ON THIS SHEET, IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

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LAYOUT	NS	01/2025
DRAWN	SMC	01/2025
REVIEWED	DJK	01/2025

REMOVAL OF IMPROVEMENTS - 1 LUMP SUM (CONT.)

SHEET NO.	PLAN SHEET NO.	ROADWAY	CENTER LINE	STATION FROM	STATION TO	LOCATION	LENGTH (FEET)	WIDTH (FEET)	AREA (SF)	AREA (SY)	EACH	DESCRIPTION OF REMOVAL
5	2 OF 31	RTE 231/TELEGRAPH	RTE 231	21+78.25	-	LEFT	-	-	-	-	1	EXISTING SIGN
5	2 OF 31	RTE 231/TELEGRAPH	RTE 231	21+89.85	22+31.62	RIGHT	41.80	-	-	-	-	FENCE
5	2 OF 31	RTE 231/TELEGRAPH	RTE 231	21+89.85	22+09.31	RIGHT	19.50	-	-	-	-	FENCE
5	2 OF 31	RTE 231/TELEGRAPH	RTE 231	21+99.98	-	LEFT	-	-	-	-	1	EXISTING SIGN
5	2 OF 31	RTE 231/TELEGRAPH	RTE 231	22+09.31	22+09.31	RIGHT	10.00	-	-	-	-	FENCE
5	2 OF 31	RTE 231/TELEGRAPH	RTE 231	22+09.31	22+31.85	RIGHT	-	-	-	-	-	FENCE
5	2 OF 31	RTE 231/TELEGRAPH	RTE 231	22+16.93	22+75.00	LEFT	5.00	58.10	290.50	32.30	-	CONCRETE SIDEWALK
5	2 OF 31	RTE 231/TELEGRAPH	RTE 231	22+20.46	22+25.03	RIGHT	10.00	4.60	46.00	5.20	-	CONCRETE SIDEWALK
5	2 OF 31	RTE 231/TELEGRAPH	RTE 231	22+43.47	22+81.56	RIGHT	38.10	-	-	-	-	FENCE
5	2 OF 31	RTE 231/TELEGRAPH	RTE 231	22+43.47	22+59.69	RIGHT	16.30	-	-	-	-	FENCE
5	2 OF 31	RTE 231/TELEGRAPH	RTE 231	22+50.39	22+70.05	RIGHT	10.00	19.70	197.00	21.90	-	CONCRETE SIDEWALK
5	2 OF 31	RTE 231/TELEGRAPH	RTE 231	22+53.35	-	RIGHT	-	-	-	-	1	SHRUBS
5	2 OF 31	RTE 231/TELEGRAPH	RTE 231	22+59.69	22+59.69	RIGHT	10.00	-	-	-	-	FENCE
5	2 OF 31	RTE 231/TELEGRAPH	RTE 231	22+66.95	-	RIGHT	-	-	-	-	1	TREE
5	2 OF 31	RTE 231/TELEGRAPH	RTE 231	22+72.66	22+77.18	RIGHT	24.00	4.60	110.40	12.30	-	CONCRETE SIDEWALK
6	3 OF 31	RTE 231/TELEGRAPH	RTE 231	22+75.00	23+55.89	LEFT	6.00	80.90	485.40	54.00	-	CONCRETE SIDEWALK
6	3 OF 31	RTE 231/TELEGRAPH	RTE 231	22+97.15	-	RIGHT	-	-	-	-	1	TREE
6	3 OF 31	RTE 231/TELEGRAPH	RTE 231	23+00.04	23+20.22	LEFT	6.00	20.20	121.20	13.50	-	CONCRETE SIDEWALK
6	3 OF 31	RTE 231/TELEGRAPH	RTE 231	23+20.95	23+24.98	LEFT	6.00	4.10	24.60	2.80	-	CONCRETE SIDEWALK
6	3 OF 31	RTE 231/TELEGRAPH	RTE 231	23+23.34	23+47.09	RIGHT	10.00	23.80	394.90	43.90	-	CONCRETE DRIVEWAY
6	3 OF 31	RTE 231/TELEGRAPH	RTE 231	23+28.19	-	LEFT	-	-	-	-	1	FIRE HYDRANT
6	3 OF 31	RTE 231/TELEGRAPH	RTE 231	23+39.72	-	RIGHT	-	-	-	-	1	SHRUBS
6	3 OF 31	RTE 231/TELEGRAPH	RTE 231	23+42.17	-	RIGHT	-	-	-	-	1	FIRE HYDRANT
6	3 OF 31	RTE 231/TELEGRAPH	RTE 231	23+50.15	23+72.74	RIGHT	6.00	22.60	135.60	15.10	-	CONCRETE SIDEWALK
6	3 OF 31	RTE 231/TELEGRAPH	RTE 231	23+53.97	23+76.99	LEFT	10.00	23.10	116.40	13.00	-	CONCRETE DRIVEWAY
6	3 OF 31	RTE 231/TELEGRAPH	RTE 231	23+76.99	24+01.40	LEFT	10.00	24.50	127.50	14.20	-	CONCRETE DRIVEWAY
6	3 OF 31	RTE 231/TELEGRAPH	RTE 231	24+15.82	-	LEFT	-	-	-	-	1	GUY WIRE
6	3 OF 31	RTE 231/TELEGRAPH	RTE 231	24+20.14	-	LEFT	-	-	-	-	1	EXISTING SIGN
6	3 OF 31	RTE 231/TELEGRAPH	RTE 231	24+25.10	24+48.85	RIGHT	16.00	23.80	199.90	22.30	-	CONCRETE DRIVEWAY
6	3 OF 31	RTE 231/TELEGRAPH	RTE 231	24+61.54	24+96.45	LEFT	6.50	35.00	187.10	20.80	-	CONCRETE DRIVEWAY
6	3 OF 31	RTE 231/TELEGRAPH	RTE 231	24+68.19	-	RIGHT	-	-	-	-	1	TREE
6	3 OF 31	RTE 231/TELEGRAPH	RTE 231	24+75.46	24+98.96	RIGHT	16.00	23.50	225.20	25.10	-	CONCRETE DRIVEWAY
6	3 OF 31	RTE 231/TELEGRAPH	RTE 231	25+09.95	-	LEFT	-	-	-	-	1	EXISTING SIGN
6	3 OF 31	RTE 231/TELEGRAPH	RTE 231	25+27.61	25+52.23	RIGHT	6.50	24.70	118.60	13.20	-	CONCRETE DRIVEWAY
6	3 OF 31	RTE 231/TELEGRAPH	RTE 231	25+49.48	25+57.97	RIGHT	-	-	-	-	4	SHRUBS
6	3 OF 31	RTE 231/TELEGRAPH	RTE 231	25+56.31	-	RIGHT	-	-	-	-	1	EXISTING SIGN
6	3 OF 31	RTE 231/TELEGRAPH	RTE 231	25+87.60	-	LEFT	-	-	-	-	1	EXISTING SIGN
6	3 OF 31	WILLETTE	WILLETTE	25+29.00	25+62.50	LEFT	33.50	0.90	30.20	3.40	-	CONCRETE CURB
6	3 OF 31	WILLETTE	WILLETTE	25+29.00	25+72.43	RIGHT	43.50	0.90	39.20	4.40	-	CONCRETE CURB
6	3 OF 31	RTE 231/TELEGRAPH	RTE 231	25+94.93	26+33.55	LEFT	6.50	38.70	210.90	23.50	-	CONCRETE DRIVEWAY
6	3 OF 31	RTE 231/TELEGRAPH	RTE 231	26+27.57	-	RIGHT	-	-	-	-	2	EXISTING SIGN
6	3 OF 31	RTE 231/TELEGRAPH	RTE 231	26+36.05	27+75.09	LEFT	6.00	139.10	834.60	92.80	-	CONCRETE SIDEWALK
												-

SUMMARY OF QUANTITIES
SHEET 2 OF 106

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.
DATE PREPARED 7/25/2025
ROUTE 231 | STATE MO
DISTRICT SL | SHEET NO. 3
COUNTY ST. LOUIS
JOB NO. J6S3631
CONTRACT ID.
PROJECT NO.
BRIDGE NO.
DESCRIPTION | DATE
IF A SEAL IS PRESENT ON THIS SHEET, IT HAS BEEN ELECTRONICALLY SEALED AND DATED.
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

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Professional Engineer 001632
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314.770.0467

LAYOUT	NS	01/2025
DRAWN	SMC	01/2025
REVIEWED	DJK	01/2025

REMOVAL OF IMPROVEMENTS - 1 LUMP SUM (CONT.)

SHEET NO.	PLAN SHEET NO.	ROADWAY	CENTER LINE	STATION FROM	STATION TO	LOCATION	LENGTH (FEET)	WIDTH (FEET)	AREA (SF)	AREA (SY)	EACH	DESCRIPTION OF REMOVAL
6	3 OF 31	RTE 231/TELEGRAPH	RTE 231	26+40.58	26+85.31	RIGHT	6.00	44.80	268.80	29.90	-	CONCRETE SIDEWALK
6	3 OF 31	RTE 231/TELEGRAPH	RTE 231	26+85.31	26+94.26	RIGHT	6.00	9.00	54.00	6.00	-	CONCRETE SIDEWALK
6	3 OF 31	RTE 231/TELEGRAPH	RTE 231	26+88.41	27+12.19	RIGHT	16.00	23.80	197.90	22.00	-	CONCRETE DRIVEWAY
6	3 OF 31	RTE 231/TELEGRAPH	RTE 231	27+38.41	-	RIGHT	-	-	-	-	1	EXISTING SIGN
6	3 OF 31	RTE 231/TELEGRAPH	RTE 231	27+44.82	27+75.18	RIGHT	6.50	30.40	155.90	17.40	-	CONCRETE DRIVEWAY
6	3 OF 31	RTE 231/TELEGRAPH	RTE 231	27+75.09	27+92.54	LEFT	17.50	0.90	15.80	1.80	-	CONCRETE CURB
7	4 OF 31	RTE 231/TELEGRAPH	RTE 231	27+80.07	28+24.59	LEFT	6.50	44.60	222.00	24.70	-	CONCRETE DRIVEWAY
7	4 OF 31	RTE 231/TELEGRAPH	RTE 231	27+77.78	28+62.98	RIGHT	6.00	85.20	511.20	56.80	-	CONCRETE SIDEWALK
7	4 OF 31	RTE 231/TELEGRAPH	RTE 231	28+22.06	-	RIGHT	-	-	-	-	1	FIRE HYDRANT
7	4 OF 31	RTE 231/TELEGRAPH	RTE 231	28+24.09	-	LEFT	-	-	-	-	1	SHRUBS
7	4 OF 31	RTE 231/TELEGRAPH	RTE 231	28+26.99	29+35.96	LEFT	6.00	109.00	654.00	72.70	-	CONCRETE SIDEWALK
7	4 OF 31	RTE 231/TELEGRAPH	RTE 231	28+65.43	-	LEFT	-	-	-	-	1	EXISTING SIGN
7	4 OF 31	WILLETTE	WILLETTE	30+52.34	30+62.05	LEFT	9.80	0.90	8.90	1.00	-	CONCRETE CURB
7	4 OF 31	WILLETTE	WILLETTE	30+52.34	30+73.98	RIGHT	21.70	0.90	19.60	2.20	-	CONCRETE CURB
7	4 OF 31	RTE 231/TELEGRAPH	RTE 231	29+07.13	-	RIGHT	-	-	-	-	1	EXISTING SIGN
7	4 OF 31	RTE 231/TELEGRAPH	RTE 231	29+13.54	-	RIGHT	-	-	-	-	1	EXISTING SIGN
7	4 OF 31	RTE 231/TELEGRAPH	RTE 231	29+35.87	29+47.68	LEFT	11.90	0.90	10.80	1.20	-	CONCRETE CURB
7	4 OF 31	RTE 231/TELEGRAPH	RTE 231	29+39.43	29+95.98	LEFT	5.00	56.60	246.20	27.40	-	CONCRETE DRIVEWAY
7	4 OF 31	RTE 231/TELEGRAPH	RTE 231	29+66.11	-	RIGHT	-	-	-	-	1	EXISTING SIGN
7	4 OF 31	RTE 231/TELEGRAPH	RTE 231	29+68.82	29+90.10	RIGHT	7.00	21.30	91.90	10.30	-	CONCRETE DRIVEWAY
7	4 OF 31	RTE 231/TELEGRAPH	RTE 231	29+86.73	30+04.33	LEFT	17.60	0.90	15.90	1.80	-	CONCRETE CURB
7	4 OF 31	RTE 231/TELEGRAPH	RTE 231	30+00.23	30+87.74	LEFT	6.00	87.60	525.60	58.40	-	CONCRETE SIDEWALK
7	4 OF 31	RTE 231/TELEGRAPH	RTE 231	30+36.28	30+74.33	RIGHT	6.00	38.10	163.50	18.20	-	CONCRETE DRIVEWAY
7	4 OF 31	RTE 231/TELEGRAPH	RTE 231	30+68.29	30+84.89	RIGHT	6.00	16.60	99.60	11.10	-	CONCRETE SIDEWALK
7	4 OF 31	RTE 231/TELEGRAPH	RTE 231	30+79.18	31+14.04	RIGHT	6.50	34.90	161.80	18.00	-	CONCRETE DRIVEWAY
7	4 OF 31	RTE 231/TELEGRAPH	RTE 231	30+87.74	31+04.33	LEFT	16.60	0.90	15.00	1.70	-	CONCRETE CURB
7	4 OF 31	RTE 231/TELEGRAPH	RTE 231	30+91.45	31+45.15	LEFT	17.00	53.70	655.10	72.80	-	CONCRETE DRIVEWAY
7	4 OF 31	RTE 231/TELEGRAPH	RTE 231	31+35.31	33+00.00	LEFT	164.70	0.90	148.30	16.50	-	CONCRETE CURB
7	4 OF 31	RTE 231/TELEGRAPH	RTE 231	31+48.54	33+00.00	LEFT	6.00	151.50	909.00	101.00	-	CONCRETE SIDEWALK
7	4 OF 31	RTE 231/TELEGRAPH	RTE 231	31+98.96	32+35.83	RIGHT	7.50	36.90	193.90	21.60	-	CONCRETE DRIVEWAY
7	4 OF 31	RTE 231/TELEGRAPH	RTE 231	32+75.55	33+09.93	RIGHT	6.50	34.40	166.60	18.60	-	CONCRETE DRIVEWAY
8	5 OF 31	RTE 231/TELEGRAPH	RTE 231	33+00.00	34+91.12	LEFT	6.00	191.20	1147.20	127.50	-	CONCRETE SIDEWALK
8	5 OF 31	RTE 231/TELEGRAPH	RTE 231	33+00.00	34+90.80	LEFT	190.80	0.90	171.80	19.10	-	CONCRETE CURB
8	5 OF 31	RTE 231/TELEGRAPH	RTE 231	33+46.81	33+67.66	RIGHT	6.50	20.90	103.90	11.60	-	CONCRETE DRIVEWAY
8	5 OF 31	RTE 231/TELEGRAPH	RTE 231	33+70.49	-	RIGHT	-	-	-	-	1	LIGHT POLE
8	5 OF 31	RTE 231/TELEGRAPH	RTE 231	33+74.30	34+38.82	RIGHT	6.50	64.60	399.90	44.50	-	CONCRETE DRIVEWAY
8	5 OF 31	RTE 231/TELEGRAPH	RTE 231	34+38.82	34+94.84	RIGHT	56.10	0.90	50.50	5.70	-	CONCRETE CURB
8	5 OF 31	RTE 231/TELEGRAPH	RTE 231	34+41.27	34+94.84	RIGHT	6.00	53.60	321.60	35.80	-	CONCRETE SIDEWALK
8	5 OF 31	RTE 231/TELEGRAPH	RTE 231	34+45.81	-	LEFT	-	-	-	-	1	EXISTING SIGN
8	5 OF 31	RTE 231/TELEGRAPH	RTE 231	34+92.98	35+52.17	LEFT	6.50	59.20	355.20	39.50	-	CONCRETE DRIVEWAY
8	5 OF 31	RTE 231/TELEGRAPH	RTE 231	34+97.02	35+41.64	RIGHT	6.50	44.70	257.80	28.70	-	CONCRETE DRIVEWAY
8	5 OF 31	RTE 231/TELEGRAPH	RTE 231	35+38.80	-	RIGHT	-	-	-	-	1	FIRE HYDRANT
												-

SUMMARY OF QUANTITIES
SHEET 3 OF 106

LAYOUT	NS	01/2025
DRAWN	SMC	01/2025
REVIEWED	DJK	01/2025

STATE OF MISSOURI
DENNIS J KOSCIELSKI
NUMBER PE-2005000712
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED 7/25/2025

ROUTE	STATE
231	MO
DISTRICT	SHEET NO.
SL	3

COUNTY ST. LOUIS
JOB NO. J6S3631
CONTRACT ID.
PROJECT NO.
BRIDGE NO.

DESCRIPTION	DATE

IF A SEAL IS PRESENT ON THIS SHEET, IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

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REMOVAL OF IMPROVEMENTS - 1 LUMP SUM (CONT.)

SHEET NO.	PLAN SHEET NO.	ROADWAY	CENTER LINE	STATION FROM	STATION TO	LOCATION	LENGTH (FEET)	WIDTH (FEET)	AREA (SF)	AREA (SY)	EACH	DESCRIPTION OF REMOVAL
8	5 OF 31	RTE 231/TELEGRAPH	RTE 231	35+57.77	35+75.88	LEFT	6.50	18.20	100.80	11.20	-	ASPHALT DRIVEWAY
8	5 OF 31	RTE 231/TELEGRAPH	RTE 231	35+57.77	36+04.88	LEFT	6.00	47.20	283.20	31.50	-	CONCRETE SIDEWALK
8	5 OF 31	RTE 231/TELEGRAPH	RTE 231	35+57.97	-	RIGHT	-	-	-	-	1	FIRE HYDRANT
8	5 OF 31	RTE 231/TELEGRAPH	RTE 231	35+85.50	35+93.44	RIGHT	8.00	0.90	7.20	0.80	-	CONCRETE CURB
8	5 OF 31	RTE 231/TELEGRAPH	RTE 231	35+88.28	36+25.55	RIGHT	6.50	37.30	199.70	22.20	-	CONCRETE DRIVEWAY
8	5 OF 31	RTE 231/TELEGRAPH	RTE 231	36+06.58	36+16.19	LEFT	9.70	0.90	8.80	1.00	-	CONCRETE CURB
8	5 OF 31	RTE 231/TELEGRAPH	RTE 231	36+08.90	36+52.05	LEFT	10.00	43.20	199.70	22.20	-	CONCRETE DRIVEWAY
8	5 OF 31	RTE 231/TELEGRAPH	RTE 231	36+06.58	36+16.19	LEFT	9.70	0.90	8.80	1.00	-	CONCRETE CURB
8	5 OF 31	RTE 231/TELEGRAPH	RTE 231	36+21.56	36+25.55	RIGHT	4.00	0.90	3.60	0.40	-	CONCRETE CURB
8	5 OF 31	RTE 231/TELEGRAPH	RTE 231	36+47.37	37+37.61	LEFT	6.00	90.30	541.80	60.20	-	CONCRETE SIDEWALK
8	5 OF 31	RTE 231/TELEGRAPH	RTE 231	36+59.08	-	RIGHT	-	-	-	-	2	EXISTING SIGN
8	5 OF 31	RTE 231/TELEGRAPH	RTE 231	36+65.94	-	LEFT	-	-	-	-	1	EXISTING SIGN
8	5 OF 31	RTE 231/TELEGRAPH	RTE 231	37+37.61	37+52.11	LEFT	6.00	14.50	87.00	9.70	-	CONCRETE CURB RAMP
8	5 OF 31	RTE 231/TELEGRAPH	RTE 231	37+37.61	37+52.11	LEFT	14.50	0.90	13.10	1.50	-	CONCRETE CURB
8	5 OF 31	RTE 231/TELEGRAPH	RTE 231	37+35.23	37+45.99	RIGHT	10.80	0.90	9.80	1.10	-	CONCRETE CURB
8	5 OF 31	RTE 231/TELEGRAPH	RTE 231	37+38.35	38+05.11	RIGHT	6.50	66.80	199.70	22.20	-	CONCRETE DRIVEWAY
8	5 OF 31	RTE 231/TELEGRAPH	RTE 231	37+41.46	38+02.20	LEFT	10.00	60.80	199.70	22.20	-	CONCRETE DRIVEWAY
8	5 OF 31	RTE 231/TELEGRAPH	RTE 231	37+97.20	38+08.63	RIGHT	11.50	0.90	10.40	1.20	-	CONCRETE CURB
9	6 OF 31	RTE 231/TELEGRAPH	RTE 231	37+96.96	38+40.85	LEFT	6.00	43.90	263.40	29.30	-	CONCRETE SIDEWALK
9	6 OF 31	RTE 231/TELEGRAPH	RTE 231	37+96.96	38+25.80	LEFT	28.90	0.90	26.10	2.90	-	CONCRETE CURB
9	6 OF 31	RTE 231/TELEGRAPH	RTE 231	38+08.23	39+87.22	RIGHT	6.00	179.00	1074.00	119.40	-	CONCRETE SIDEWALK
9	6 OF 31	RTE 231/TELEGRAPH	RTE 231	38+04.37	40+10.49	RIGHT	206.20	0.90	185.60	20.70	-	CONCRETE CURB
9	6 OF 31	RTE 231/TELEGRAPH	RTE 231	38+25.80	38+44.72	LEFT	19.00	0.90	17.10	1.90	-	CONCRETE CURB
9	6 OF 31	RTE 231/TELEGRAPH	RTE 231	38+30.24	39+12.29	LEFT	13.50	82.10	817.20	90.80	-	CONCRETE DRIVEWAY
9	6 OF 31	RTE 231/TELEGRAPH	RTE 231	38+95.07	39+82.22	LEFT	87.20	0.90	78.50	8.80	-	CONCRETE CURB
9	6 OF 31	RTE 231/TELEGRAPH	RTE 231	39+81.27	-	LEFT	-	-	-	-	1	MAST ARM
9	6 OF 31	RTE 231/TELEGRAPH	RTE 231	39+82.22	39+87.22	LEFT	7.00	5.00	35.00	3.90	-	CONCRETE CURB RAMP
9	6 OF 31	RTE 231/TELEGRAPH	RTE 231	39+84.21	-	LEFT	-	-	-	-	2	HAND HOLE
9	6 OF 31	RTE 231/TELEGRAPH	RTE 231	39+85.33	-	LEFT	-	-	-	-	1	LIGHT POLE
9	6 OF 31	JEFFERSONIAN	JEFFERSONIAN	35+42.64	35+65.00	LEFT	22.40	0.90	20.20	2.30	-	CONCRETE CURB
9	6 OF 31	JEFFERSONIAN	JEFFERSONIAN	35+38.91	35+65.00	RIGHT	26.10	0.90	23.50	2.70	-	CONCRETE CURB
9	6 OF 31	JEFFERSONIAN	JEFFERSONIAN	35+58.13	-	LEFT	-	-	-	-	1	SIGNAL POST
9	6 OF 31	JEFFERSONIAN	JEFFERSONIAN	36+66.60	-	RIGHT	-	-	-	-	1	EXISTING SIGN
9	6 OF 31	RTE 231/TELEGRAPH	RTE 231	40+02.00	40+15.35	RIGHT	7.00	13.40	93.80	10.50	-	CONCRETE CURB RAMP
9	6 OF 31	RTE 231/TELEGRAPH	RTE 231	40+10.34	-	RIGHT	-	-	-	-	1	EXISTING SIGN
9	6 OF 31	JEFFERSONIAN	JEFFERSONIAN	40+90.00	41+05.26	LEFT	6.00	15.30	91.80	10.20	-	CONCRETE SIDEWALK
9	6 OF 31	JEFFERSONIAN	JEFFERSONIAN	40+90.00	41+19.21	LEFT	29.30	0.90	26.40	3.00	-	CONCRETE CURB
9	6 OF 31	JEFFERSONIAN	JEFFERSONIAN	40+90.00	41+08.55	RIGHT	6.00	18.60	111.60	12.40	-	CONCRETE SIDEWALK
9	6 OF 31	JEFFERSONIAN	JEFFERSONIAN	40+90.00	41+17.03	RIGHT	6.00	0.90	5.40	0.60	-	CONCRETE CURB
9	6 OF 31	JEFFERSONIAN	JEFFERSONIAN	41+00.55	-	RIGHT	-	-	-	-	1	SIGNAL POST
9	6 OF 31	JEFFERSONIAN	JEFFERSONIAN	41+06.11	-	RIGHT	-	-	-	-	2	HAND HOLE
9	6 OF 31	JEFFERSONIAN	JEFFERSONIAN	41+08.39	41+12.29	RIGHT	6.00	3.90	23.40	2.60	-	CONCRETE CURB RAMP
												-

STATE OF MISSOURI
DENNIS J KOSCIELSKI
NUMBER PE-2005000712
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED
7/25/2025

ROUTE	STATE
231	MO
DISTRICT	SHEET NO.
SL	3

COUNTY
ST. LOUIS

JOB NO.
J6S3631

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION	DATE

IF A SEAL IS PRESENT ON THIS SHEET, IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
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LAYOUT	NS	01/2025
DRAWN	SMC	01/2025
REVIEWED	DJK	01/2025

SUMMARY OF QUANTITIES
SHEET 4 OF 106

REMOVAL OF IMPROVEMENTS - 1 LUMP SUM (CONT.)

SHEET NO.	PLAN SHEET NO.	ROADWAY	CENTER LINE	STATION FROM	STATION TO	LOCATION	LENGTH (FEET)	WIDTH (FEET)	AREA (SF)	AREA (SY)	EACH	DESCRIPTION OF REMOVAL
9	6 OF 31	RTE 231/TELEGRAPH	RTE 231	40+57.23	-	LEFT	-	-	-	-	1	SIGNAL POST
9	6 OF 31	RTE 231/TELEGRAPH	RTE 231	40+69.43	40+84.43	LEFT	6.00	15.00	90.00	10.00	-	CONCRETE CURB RAMP
9	6 OF 31	RTE 231/TELEGRAPH	RTE 231	40+84.15	40+89.24	LEFT	-	-	-	-	2	SHRUBS
9	6 OF 31	RTE 231/TELEGRAPH	RTE 231	40+87.15	41+25.63	LEFT	6.00	38.50	190.40	21.20	-	ASPHALT DRIVEWAY
9	6 OF 31	RTE 231/TELEGRAPH	RTE 231	40+90.89	41+07.18	RIGHT	6.00	16.30	97.80	10.90	-	CONCRETE CURB RAMP
9	6 OF 31	RTE 231/TELEGRAPH	RTE 231	40+93.10	-	LEFT	-	-	-	-	1	MAST ARM
9	6 OF 31	RTE 231/TELEGRAPH	RTE 231	41+09.96	41+49.73	RIGHT	8.50	39.80	270.70	30.10	-	CONCRETE DRIVEWAY
9	6 OF 31	RTE 231/TELEGRAPH	RTE 231	41+20.22	42+03.53	RIGHT	6.00	83.40	500.40	55.60	-	CONCRETE SIDEWALK
9	6 OF 31	RTE 231/TELEGRAPH	RTE 231	41+73.17	42+11.78	RIGHT	8.50	38.70	272.10	30.30	-	CONCRETE DRIVEWAY
9	6 OF 31	RTE 231/TELEGRAPH	RTE 231	41+77.41	-	RIGHT	-	-	-	-	1	EXISTING SIGN
9	6 OF 31	RTE 231/TELEGRAPH	RTE 231	41+95.22	42+04.24	LEFT	-	-	-	-	2	SHRUBS
9	6 OF 31	RTE 231/TELEGRAPH	RTE 231	42+03.87	42+38.56	LEFT	8.50	34.70	272.10	30.30	-	CONCRETE DRIVEWAY
9	6 OF 31	RTE 231/TELEGRAPH	RTE 231	42+11.03	42+32.75	RIGHT	21.80	0.90	19.70	2.20	-	CONCRETE CURB
9	6 OF 31	RTE 231/TELEGRAPH	RTE 231	42+30.43	42+62.31	RIGHT	8.50	31.90	228.80	25.50	-	CONCRETE DRIVEWAY
9	6 OF 31	RTE 231/TELEGRAPH	RTE 231	42+38.64	42+92.64	LEFT	54.00	0.90	48.60	5.40	-	CONCRETE CURB
9	6 OF 31	RTE 231/TELEGRAPH	RTE 231	42+64.49	43+25.00	RIGHT	6.00	60.60	363.60	40.40	-	CONCRETE SIDEWALK
9	6 OF 31	RTE 231/TELEGRAPH	RTE 231	42+76.93	42+93.37	LEFT	-	-	-	-	3	SHRUBS
9	6 OF 31	RTE 231/TELEGRAPH	RTE 231	42+90.21	43+29.05	LEFT	6.00	38.90	192.40	21.40	-	CONCRETE DRIVEWAY
10	7 OF 31	RTE 231/TELEGRAPH	RTE 231	43+25.00	44+15.33	RIGHT	6.00	90.40	542.40	60.30	-	CONCRETE SIDEWALK
10	7 OF 31	RTE 231/TELEGRAPH	RTE 231	43+24.73	43+74.01	LEFT	6.00	49.30	295.80	32.90	-	CONCRETE SIDEWALK
10	7 OF 31	RTE 231/TELEGRAPH	RTE 231	43+27.51	43+82.19	LEFT	54.70	0.90	49.30	5.50	-	CONCRETE CURB
10	7 OF 31	RTE 231/TELEGRAPH	RTE 231	43+74.01	43+81.20	LEFT	6.00	7.20	43.20	4.80	-	CONCRETE CURB RAMP
10	7 OF 31	RTE 231/TELEGRAPH	RTE 231	43+76.79	44+01.59	LEFT	8.50	24.80	152.30	17.00	-	CONCRETE DRIVEWAY
10	7 OF 31	RTE 231/TELEGRAPH	RTE 231	44+05.95	44+32.66	LEFT	8.50	26.80	170.70	19.00	-	CONCRETE DRIVEWAY
10	7 OF 31	RTE 231/TELEGRAPH	RTE 231	44+18.11	44+46.30	RIGHT	8.50	28.20	172.20	19.20	-	CONCRETE DRIVEWAY
10	7 OF 31	RTE 231/TELEGRAPH	RTE 231	44+64.20	44+92.75	LEFT	9.50	28.60	158.10	17.60	-	CONCRETE DRIVEWAY
10	7 OF 31	BETTY JEAN	BETTY JEAN	45+50.02	45+61.80	LEFT	11.80	0.90	10.70	1.20	-	CONCRETE CURB
10	7 OF 31	BETTY JEAN	BETTY JEAN	45+51.74	45+63.49	LEFT	11.80	0.90	10.70	1.20	-	CONCRETE CURB
10	7 OF 31	BETTY JEAN	BETTY JEAN	45+55.18	-	RIGHT	-	-	-	-	2	EXISTING SIGN
10	7 OF 31	RTE 231/TELEGRAPH	RTE 231	45+12.67	45+37.81	LEFT	8.50	25.20	131.10	14.60	-	CONCRETE DRIVEWAY
10	7 OF 31	RTE 231/TELEGRAPH	RTE 231	45+48.44	45+54.45	LEFT	6.10	0.90	5.50	0.70	-	CONCRETE CURB
10	7 OF 31	RTE 231/TELEGRAPH	RTE 231	45+48.44	45+97.49	LEFT	8.50	49.10	264.30	29.40	-	CONCRETE DRIVEWAY
10	7 OF 31	RTE 231/TELEGRAPH	RTE 231	45+52.14	45+54.45	RIGHT	2.40	0.90	2.20	0.30	-	CONCRETE CURB
10	7 OF 31	RTE 231/TELEGRAPH	RTE 231	45+55.52	45+86.21	RIGHT	10.50	30.70	261.70	29.10	-	CONCRETE DRIVEWAY
10	7 OF 31	RTE 231/TELEGRAPH	RTE 231	45+81.29	45+89.71	RIGHT	8.50	0.90	7.70	0.90	-	CONCRETE CURB
10	7 OF 31	RTE 231/TELEGRAPH	RTE 231	45+83.98	45+89.99	LEFT	6.10	0.90	5.50	0.70	-	CONCRETE CURB
10	7 OF 31	RTE 231/TELEGRAPH	RTE 231	45+89.71	46+75.64	RIGHT	86.00	0.90	77.40	8.60	-	CONCRETE CURB
10	7 OF 31	RTE 231/TELEGRAPH	RTE 231	45+88.90	46+73.17	RIGHT	6.00	84.30	505.80	56.20	-	CONCRETE SIDEWALK
10	7 OF 31	RTE 231/TELEGRAPH	RTE 231	45+89.99	46+33.24	LEFT	6.00	43.30	259.80	28.90	-	CONCRETE SIDEWALK
10	7 OF 31	RTE 231/TELEGRAPH	RTE 231	46+61.38	-	LEFT	-	-	-	-	1	HAND HOLE
10	7 OF 31	RTE 231/TELEGRAPH	RTE 231	46+62.18	-	RIGHT	-	-	-	-	1	EXISTING SIGN
10	7 OF 31	RTE 231/TELEGRAPH	RTE 231	46+75.18	46+75.64	RIGHT	0.50	4.20	2.10	0.30	-	CONCRETE CURB
												-

STATE OF MISSOURI
DENNIS J KOSCIELSKI
NUMBER PE-2005000712
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED
7/25/2025

ROUTE	STATE
231	MO
DISTRICT	SHEET NO.
SL	3

COUNTY
ST. LOUIS

JOB NO.
J6S3631

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION	DATE

IF A SEAL IS PRESENT ON THIS SHEET, IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
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LAYOUT	NS	01/2025
DRAWN	SMC	01/2025
REVIEWED	DJK	01/2025

SUMMARY OF QUANTITIES
SHEET 5 OF 106

REMOVAL OF IMPROVEMENTS - 1 LUMP SUM (CONT.)

SHEET NO.	PLAN SHEET NO.	ROADWAY	CENTER LINE	STATION FROM	STATION TO	LOCATION	LENGTH (FEET)	WIDTH (FEET)	AREA (SF)	AREA (SY)	EACH	DESCRIPTION OF REMOVAL
10	7 OF 31	RTE 231/TELEGRAPH	RTE 231	46+78.17	46+83.17	RIGHT	9.00	5.00	45.00	5.00	-	CONCRETE CURB RAMP
10	7 OF 31	RTE 231/TELEGRAPH	RTE 231	46+81.87	-	RIGHT	-	-	-	-	1	SIGNAL POST
10	7 OF 31	RTE 231/TELEGRAPH	RTE 231	46+83.70	-	LEFT	-	-	-	-	1	SIGNAL POST
10	7 OF 31	RTE 231/TELEGRAPH	RTE 231	47+18.85	47+90.13	CENTER	17.50	71.30	970.80	107.90	-	CONCRETE ISLAND
10	7 OF 31	RTE 231/TELEGRAPH	RTE 231	47+38.72	-	CENTER	-	-	-	-	1	MAST ARM
10	7 OF 31	RTE 231/TELEGRAPH	RTE 231	47+60.16	47+68.16	RIGHT	6.00	8.00	48.00	5.40	-	CONCRETE SIDEWALK
10	7 OF 31	RTE 231/TELEGRAPH	RTE 231	47+68.16	47+76.92	RIGHT	9.00	8.80	79.20	8.80	-	CONCRETE CURB RAMP
10	7 OF 31	RTE 231/TELEGRAPH	RTE 231	47+73.00	-	CENTER	-	-	-	-	1	MAST ARM
10	7 OF 31	RTE 231/TELEGRAPH	RTE 231	47+77.76	-	RIGHT	-	-	-	-	1	SIGNAL POST
10	7 OF 31	LAREDO	LAREDO	55+50.90	55+65.17	LEFT	14.30	0.90	12.90	1.50	-	CONCRETE CURB
10	7 OF 31	LAREDO	LAREDO	55+50.90	55+57.95	RIGHT	7.05	0.90	6.40	0.80	-	CONCRETE CURB
10	7 OF 31	LAREDO	LAREDO	55+58.38	-	RIGHT	-	-	-	-	1	BCMP
10	7 OF 31	LAREDO	LAREDO	55+58.83	-	RIGHT	-	-	-	-	1	EXISTING SIGN
10	7 OF 31	TELEGRAPH	TELEGRAPH	51+02.13	-	RIGHT	-	-	-	-	1	SIGNAL POST
10	7 OF 31	TELEGRAPH	TELEGRAPH	51+10.49	51+21.11	RIGHT	8.50	10.70	91.00	10.20	-	CONCRETE CURB RAMP
10	7 OF 31	RTE 231/KINGSTON	RTE 231	48+08.30	48+23.73	LEFT	4.00	15.50	62.00	6.90	-	CONCRETE CURB RAMP
10	7 OF 31	RTE 231/KINGSTON	RTE 231	48+16.98	-	RIGHT	-	-	-	-	1	SIGNAL POST
10	7 OF 31	RTE 231/KINGSTON	RTE 231	48+17.23	-	LEFT	-	-	-	-	1	SIGNAL POST
10	7 OF 31	RTE 231/KINGSTON	RTE 231	48+18.23	48+23.23	RIGHT	5.00	5.00	25.00	2.80	-	CONCRETE CURB RAMP
10	7 OF 31	RTE 231/KINGSTON	RTE 231	48+23.23	48+40.60	RIGHT	6.00	17.40	104.40	11.60	-	CONCRETE SIDEWALK
10	7 OF 31	RTE 231/KINGSTON	RTE 231	48+23.73	48+35.00	LEFT	6.00	11.30	67.80	7.60	-	CONCRETE SIDEWALK
10	7 OF 31	RTE 231/KINGSTON	RTE 231	48+25.61	48+46.45	RIGHT	20.90	0.90	18.90	2.10	-	CONCRETE CURB
10	7 OF 31	RTE 231/KINGSTON	RTE 231	48+26.68	-	RIGHT	-	-	-	-	1	SIGNAL POST
11	8 OF 31	RTE 231/KINGSTON	RTE 231	48+35.00	50+37.83	LEFT	6.00	202.90	1217.40	135.30	-	CONCRETE SIDEWALK
11	8 OF 31	RTE 231/KINGSTON	RTE 231	48+35.00	50+50.41	LEFT	215.50	0.90	194.00	21.60	-	CONCRETE CURB
11	8 OF 31	RTE 231/KINGSTON	RTE 231	48+37.95	-	RIGHT	-	-	-	-	1	EXISTING SIGN
11	8 OF 31	RTE 231/KINGSTON	RTE 231	48+40.62	48+48.99	RIGHT	8.00	8.40	67.20	7.50	-	CONCRETE CURB RAMP
11	8 OF 31	RTE 231/KINGSTON	RTE 231	48+43.76	48+77.67	RIGHT	8.50	34.00	215.90	24.00	-	CONCRETE DRIVEWAY
11	8 OF 31	RTE 231/KINGSTON	RTE 231	48+76.05	50+65.33	RIGHT	189.30	0.90	170.40	19.00	-	CONCRETE CURB
11	8 OF 31	RTE 231/KINGSTON	RTE 231	48+80.07	50+65.35	RIGHT	6.00	185.30	1111.80	123.60	-	CONCRETE SIDEWALK
11	8 OF 31	RTE 231/KINGSTON	RTE 231	48+92.49	-	RIGHT	-	-	-	-	1	EXISTING SIGN
11	8 OF 31	RTE 231/KINGSTON	RTE 231	50+47.44	-	LEFT	-	-	-	-	1	ITS POLE
11	8 OF 31	RTE 231/KINGSTON	RTE 231	50+47.44	50+58.53	LEFT	6.00	11.10	66.60	7.40	-	CONCRETE CURB RAMP
11	8 OF 31	RTE 231/KINGSTON	RTE 231	50+68.43	-	RIGHT	-	-	-	-	1	GUY WIRE
11	8 OF 31	RTE 231/KINGSTON	RTE 231	50+83.15	-	RIGHT	-	-	-	-	1	EXISTING SIGN
11	8 OF 31	SIGSBEE	SIGSBEE	60+67.70	60+95.21	LEFT	27.60	0.90	24.90	2.80	-	CONCRETE CURB
11	8 OF 31	SIGSBEE	SIGSBEE	60+67.70	60+78.33	RIGHT	10.70	0.90	9.70	1.10	-	CONCRETE CURB
11	8 OF 31	SIGSBEE	SIGSBEE	61+47.25	61+74.33	RIGHT	27.10	0.90	24.40	2.80	-	CONCRETE CURB
11	8 OF 31	SIGSBEE	SIGSBEE	61+56.80	-	RIGHT	-	-	-	-	1	EXISTING SIGN
11	8 OF 31	SIGSBEE	SIGSBEE	61+61.28	61+74.20	LEFT	13.00	0.90	11.70	1.30	-	CONCRETE CURB
11	8 OF 31	SIGSBEE	SIGSBEE	61+74.74	-	LEFT	-	-	-	-	1	EXISTING SIGN
11	8 OF 31	RTE 231/KINGSTON	RTE 231	50+88.87	51+01.20	LEFT	6.00	12.40	74.40	8.30	-	CONCRETE CURB RAMP
												-

STATE OF MISSOURI
DENNIS J KOSCIELSKI
NUMBER PE-2005000712
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED
7/25/2025

ROUTE	STATE
231	MO
DISTRICT	SHEET NO.
SL	3

COUNTY
ST. LOUIS

JOB NO.
J6S3631

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION	DATE

IF A SEAL IS PRESENT ON THIS SHEET, IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

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314.770.0467

LAYOUT	NS	01/2025
DRAWN	SMC	01/2025
REVIEWED	DJK	01/2025

SUMMARY OF QUANTITIES
SHEET 6 OF 106

REMOVAL OF IMPROVEMENTS - 1 LUMP SUM (CONT.)

SHEET NO.	PLAN SHEET NO.	ROADWAY	CENTER LINE	STATION FROM	STATION TO	LOCATION	LENGTH (FEET)	WIDTH (FEET)	AREA (SF)	AREA (SY)	EACH	DESCRIPTION OF REMOVAL
11	8 OF 31	RTE 231/KINGSTON	RTE 231	50+97.10	51+37.54	LEFT	40.50	0.90	36.50	4.10	-	CONCRETE CURB
11	8 OF 31	RTE 231/KINGSTON	RTE 231	51+01.17	51+28.98	LEFT	6.00	27.90	167.40	18.60	-	CONCRETE SIDEWALK
11	8 OF 31	RTE 231/KINGSTON	RTE 231	51+25.69	52+92.15	RIGHT	166.50	0.90	149.90	16.70	-	CONCRETE CURB
11	8 OF 31	RTE 231/KINGSTON	RTE 231	51+31.53	51+62.06	RIGHT	10.50	30.60	232.90	25.90	-	CONCRETE DRIVEWAY
11	8 OF 31	RTE 231/KINGSTON	RTE 231	51+31.51	52+87.30	RIGHT	6.00	155.80	934.80	103.90	-	CONCRETE SIDEWALK
11	8 OF 31	RTE 231/KINGSTON	RTE 231	51+78.02	-	LEFT	-	-	-	-	1	EXISTING SIGN
11	8 OF 31	RTE 231/KINGSTON	RTE 231	52+01.98	52+19.15	LEFT	12.50	17.20	137.10	15.30	-	CONCRETE DRIVEWAY
11	8 OF 31	RTE 231/KINGSTON	RTE 231	52+19.15	52+36.57	LEFT	12.50	17.50	148.80	16.60	-	CONCRETE DRIVEWAY
11	8 OF 31	RTE 231/KINGSTON	RTE 231	52+39.58	52+56.36	LEFT	6.00	16.80	100.80	11.20	-	CONCRETE CURB RAMP
11	8 OF 31	ATLAS	ATLAS	65+25.85	65+50.29	LEFT	24.50	0.90	22.10	2.50	-	CONCRETE CURB
11	8 OF 31	ATLAS	ATLAS	65+36.92	-	LEFT	-	-	-	-	1	EXISTING SIGN
11	8 OF 31	ATLAS	ATLAS	65+39.81	65+50.29	LEFT	6.00	10.50	63.00	7.00	-	CONCRETE SIDEWALK
11	8 OF 31	ATLAS	ATLAS	65+43.11	65+50.32	RIGHT	7.30	0.90	6.60	0.80	-	CONCRETE CURB
11	8 OF 31	ATLAS	ATLAS	65+47.66	-	RIGHT	-	-	-	-	1	EXISTING SIGN
11	8 OF 31	ATLAS	ATLAS	65+50.37	65+65.40	RIGHT	6.00	15.10	90.60	10.10	-	CONCRETE SIDEWALK
11	8 OF 31	RTE 231/KINGSTON	RTE 231	52+90.15	53+12.48	RIGHT	8.50	22.40	110.10	12.30	-	CONCRETE DRIVEWAY
11	8 OF 31	RTE 231/KINGSTON	RTE 231	52+93.87	53+11.05	LEFT	6.00	17.20	103.20	11.50	-	CONCRETE CURB RAMP
11	8 OF 31	RTE 231/KINGSTON	RTE 231	53+11.10	53+69.50	LEFT	6.00	58.40	350.40	39.00	-	CONCRETE SIDEWALK
12	9 OF 31	RTE 231/KINGSTON	RTE 231	53+69.43	53+94.54	LEFT	9.00	25.20	118.30	13.20	-	CONCRETE DRIVEWAY
12	9 OF 31	RTE 231/KINGSTON	RTE 231	53+83.56	54+06.73	RIGHT	8.50	23.20	115.80	12.90	-	CONCRETE DRIVEWAY
12	9 OF 31	RTE 231/KINGSTON	RTE 231	54+06.67	54+37.95	LEFT	9.00	31.30	171.70	19.10	-	CONCRETE DRIVEWAY
12	9 OF 31	RTE 231/KINGSTON	RTE 231	54+09.64	54+68.84	RIGHT	6.00	59.20	355.20	39.50	-	CONCRETE SIDEWALK
12	9 OF 31	RTE 231/KINGSTON	RTE 231	54+21.00	-	RIGHT	-	-	-	-	1	EXISTING SIGN
12	9 OF 31	RTE 231/KINGSTON	RTE 231	54+51.38	54+77.51	LEFT	9.00	26.20	122.80	13.70	-	CONCRETE DRIVEWAY
12	9 OF 31	RTE 231/KINGSTON	RTE 231	54+71.92	54+94.59	RIGHT	8.50	22.70	114.10	12.70	-	CONCRETE DRIVEWAY
12	9 OF 31	RTE 231/KINGSTON	RTE 231	54+77.51	55+19.08	LEFT	6.00	41.60	249.60	27.80	-	CONCRETE SIDEWALK
12	9 OF 31	RTE 231/KINGSTON	RTE 231	55+19.12	55+45.25	LEFT	9.00	26.20	119.40	13.30	-	CONCRETE DRIVEWAY
12	9 OF 31	RTE 231/KINGSTON	RTE 231	55+47.25	55+68.75	RIGHT	8.50	21.50	111.00	12.40	-	CONCRETE DRIVEWAY
12	9 OF 31	RTE 231/KINGSTON	RTE 231	55+56.56	55+83.60	LEFT	9.00	27.10	121.10	13.50	-	CONCRETE DRIVEWAY
12	9 OF 31	RTE 231/KINGSTON	RTE 231	55+67.32	56+05.57	RIGHT	38.30	0.90	34.50	3.90	-	CONCRETE CURB
12	9 OF 31	RTE 231/KINGSTON	RTE 231	55+87.81	56+09.49	LEFT	6.00	21.70	130.20	14.50	-	CONCRETE CURB RAMP
12	9 OF 31	RTE 231/KINGSTON	RTE 231	55+91.30	56+24.80	LEFT	9.00	33.50	141.60	15.80	-	CONCRETE DRIVEWAY
12	9 OF 31	SHETLAND	SHETLAND	70+55.86	-	RIGHT	-	-	-	-	1	EXISTING SIGN
12	9 OF 31	RTE 231/KINGSTON	RTE 231	56+37.32	56+72.51	LEFT	9.00	35.20	191.80	21.40	-	CONCRETE DRIVEWAY
12	9 OF 31	RTE 231/KINGSTON	RTE 231	56+43.61	56+59.91	LEFT	6.00	16.30	97.80	10.90	-	CONCRETE CURB RAMP
12	9 OF 31	RTE 231/KINGSTON	RTE 231	56+48.18	-	RIGHT	-	-	-	-	1	EXISTING SIGN
12	9 OF 31	RTE 231/KINGSTON	RTE 231	56+88.32	57+09.78	RIGHT	7.50	21.50	104.50	11.70	-	CONCRETE DRIVEWAY
12	9 OF 31	RTE 231/KINGSTON	RTE 231	57+05.64	57+34.17	RIGHT	6.00	28.60	171.60	19.10	-	CONCRETE SIDEWALK
12	9 OF 31	RTE 231/KINGSTON	RTE 231	57+15.45	57+42.43	LEFT	9.00	27.00	119.90	13.40	-	CONCRETE DRIVEWAY
12	9 OF 31	RTE 231/KINGSTON	RTE 231	57+29.71	57+50.17	RIGHT	8.00	20.50	98.20	11.00	-	CONCRETE DRIVEWAY
12	9 OF 31	GENEVA	GENEVA	75+30.53	75+51.22	LEFT	20.70	0.90	18.70	2.10	-	CONCRETE CURB
12	9 OF 31	GENEVA	GENEVA	75+30.98	75+51.57	RIGHT	20.60	0.90	18.60	2.10	-	CONCRETE CURB
												-

STATE OF MISSOURI
DENNIS J KOSCIELSKI
NUMBER PE-2005000712
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED
7/25/2025

ROUTE	STATE
231	MO
DISTRICT	SHEET NO.
SL	3

COUNTY
ST. LOUIS

JOB NO.
J6S3631

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION	DATE

IF A SEAL IS PRESENT ON THIS SHEET, IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
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LAYOUT	NS	01/2025
DRAWN	SMC	01/2025
REVIEWED	DJK	01/2025

SUMMARY OF QUANTITIES
SHEET 7 OF 106

REMOVAL OF IMPROVEMENTS - 1 LUMP SUM (CONT.)

SHEET NO.	PLAN SHEET NO.	ROADWAY	CENTER LINE	STATION FROM	STATION TO	LOCATION	LENGTH (FEET)	WIDTH (FEET)	AREA (SF)	AREA (SY)	EACH	DESCRIPTION OF REMOVAL
12	9 OF 31	GENEVA	GENEVA	75+32.33	75+41.20	LEFT	6.00	8.90	53.40	6.00	-	CONCRETE CURB RAMP
12	9 OF 31	GENEVA	GENEVA	75+33.12	75+41.57	RIGHT	6.00	8.50	51.00	5.70	-	CONCRETE CURB RAMP
12	9 OF 31	GENEVA	GENEVA	75+41.20	75+51.20	LEFT	6.00	10.00	60.00	6.70	-	CONCRETE SIDEWALK
12	9 OF 31	GENEVA	GENEVA	75+41.57	75+51.57	RIGHT	6.00	10.00	60.00	6.70	-	CONCRETE SIDEWALK
12	9 OF 31	GENEVA	GENEVA	75+44.00	-	LEFT	-	-	-	-	1	EXISTING SIGN
12	9 OF 31	GENEVA	GENEVA	75+52.13	-	RIGHT	-	-	-	-	1	EXISTING SIGN
12	9 OF 31	RTE 231/KINGSTON	RTE 231	57+69.87	57+90.48	RIGHT	7.50	20.70	97.20	10.80	-	CONCRETE DRIVEWAY
12	9 OF 31	RTE 231/KINGSTON	RTE 231	58+09.98	58+30.46	RIGHT	7.50	20.50	100.80	11.20	-	CONCRETE DRIVEWAY
12	9 OF 31	RTE 231/KINGSTON	RTE 231	58+23.52	-	LEFT	-	-	-	-	1	EXISTING SIGN
12	9 OF 31	RTE 231/KINGSTON	RTE 231	58+26.40	-	LEFT	-	-	-	-	1	EXISTING SIGN
12	9 OF 31	RTE 231/KINGSTON	RTE 231	58+33.24	58+83.20	RIGHT	50.00	0.90	45.00	5.00	-	CONCRETE CURB
13	10 OF 31	RTE 231/KINGSTON	RTE 231	58+66.16	-	RIGHT	-	-	-	-	1	TREE
13	10 OF 31	RTE 231/KINGSTON	RTE 231	58+66.64	58+93.75	LEFT	9.00	27.20	118.00	13.20	-	CONCRETE DRIVEWAY
13	10 OF 31	RTE 231/KINGSTON	RTE 231	58+78.86	58+98.35	RIGHT	7.50	19.50	94.50	10.50	-	CONCRETE DRIVEWAY
13	10 OF 31	RTE 231/KINGSTON	RTE 231	59+12.66	59+37.42	LEFT	8.00	24.80	101.40	11.30	-	CONCRETE DRIVEWAY
13	10 OF 31	RTE 231/KINGSTON	RTE 231	59+17.44	59+37.27	RIGHT	8.00	19.90	97.80	10.90	-	CONCRETE DRIVEWAY
13	10 OF 31	RTE 231/KINGSTON	RTE 231	59+30.75	59+63.30	LEFT	6.00	32.60	195.60	21.80	-	CONCRETE SIDEWALK
13	10 OF 31	RTE 231/KINGSTON	RTE 231	59+33.22	59+60.99	RIGHT	6.00	27.80	166.80	18.60	-	CONCRETE SIDEWALK
13	10 OF 31	RTE 231/KINGSTON	RTE 231	59+55.86	59+82.92	LEFT	9.50	27.10	122.00	13.60	-	CONCRETE DRIVEWAY
13	10 OF 31	RTE 231/KINGSTON	RTE 231	59+56.53	59+77.59	RIGHT	8.00	21.10	102.70	11.50	-	CONCRETE DRIVEWAY
13	10 OF 31	RTE 231/KINGSTON	RTE 231	59+78.54	60+32.22	LEFT	-	-	-	-	4	TREE
13	10 OF 31	RTE 231/KINGSTON	RTE 231	59+95.48	60+23.73	RIGHT	7.50	28.30	163.10	18.20	-	CONCRETE DRIVEWAY
13	10 OF 31	RTE 231/KINGSTON	RTE 231	60+23.25	-	RIGHT	-	-	-	-	1	EXISTING SIGN
13	10 OF 31	RTE 231/KINGSTON	RTE 231	60+31.03	60+66.98	LEFT	9.00	36.00	188.20	21.00	-	CONCRETE DRIVEWAY
13	10 OF 31	RTE 231/KINGSTON	RTE 231	60+43.21	60+64.15	RIGHT	8.50	21.00	110.50	12.30	-	CONCRETE DRIVEWAY
13	10 OF 31	RTE 231/KINGSTON	RTE 231	60+63.89	61+22.23	RIGHT	58.40	0.90	52.60	5.90	-	CONCRETE CURB
13	10 OF 31	RTE 231/KINGSTON	RTE 231	61+09.94	-	RIGHT	-	-	-	-	1	TREE
13	10 OF 31	RTE 231/KINGSTON	RTE 231	61+21.58	-	RIGHT	-	-	-	-	1	EXISTING SIGN
13	10 OF 31	RTE 231/KINGSTON	RTE 231	61+23.69	61+50.29	LEFT	8.00	26.70	107.10	11.90	-	CONCRETE DRIVEWAY
13	10 OF 31	RTE 231/KINGSTON	RTE 231	61+26.06	61+32.40	RIGHT	5.00	6.40	32.00	3.60	-	CONCRETE CURB RAMP
13	10 OF 31	TERREL	TERREL	80+51.77	80+70.53	LEFT	18.80	0.90	17.00	1.90	-	CONCRETE CURB
13	10 OF 31	TERREL	TERREL	80+51.77	80+70.49	RIGHT	18.80	0.90	17.00	1.90	-	CONCRETE CURB
13	10 OF 31	TERREL	TERREL	80+56.53	-	LEFT	-	-	-	-	1	EXISTING SIGN
13	10 OF 31	TERREL	TERREL	80+57.79	-	RIGHT	-	-	-	-	1	EXISTING SIGN
13	10 OF 31	RTE 231/KINGSTON	RTE 231	61+64.22	61+74.86	LEFT	-	-	-	-	2	TREE
13	10 OF 31	RTE 231/KINGSTON	RTE 231	61+68.10	61+93.81	LEFT	8.00	25.80	99.40	11.10	-	CONCRETE DRIVEWAY
13	10 OF 31	RTE 231/KINGSTON	RTE 231	61+74.86	63+50.00	RIGHT	175.20	0.90	157.70	17.60	-	CONCRETE CURB
13	10 OF 31	RTE 231/KINGSTON	RTE 231	61+75.84	63+50.00	RIGHT	6.00	174.20	1045.20	116.20	-	CONCRETE SIDEWALK
13	10 OF 31	RTE 231/KINGSTON	RTE 231	62+12.51	62+48.91	LEFT	9.00	36.40	194.10	21.60	-	CONCRETE DRIVEWAY
13	10 OF 31	RTE 231/KINGSTON	RTE 231	62+69.82	-	LEFT	-	-	-	-	1	EXISTING SIGN
13	10 OF 31	RTE 231/KINGSTON	RTE 231	63+06.16	63+25.97	LEFT	9.00	19.90	117.40	13.10	-	CONCRETE DRIVEWAY
13	10 OF 31	RTE 231/KINGSTON	RTE 231	63+25.97	63+45.05	LEFT	9.00	19.10	108.30	12.10	-	CONCRETE DRIVEWAY
												-

STATE OF MISSOURI
DENNIS J KOSCIELSKI
NUMBER PE-2005000712
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED
7/25/2025

ROUTE	STATE
231	MO
DISTRICT	SHEET NO.
SL	3

COUNTY
ST. LOUIS

JOB NO.
J6S3631

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION	DATE

IF A SEAL IS PRESENT ON THIS SHEET, IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL
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LAYOUT	NS	01/2025
DRAWN	SMC	01/2025
REVIEWED	DJK	01/2025

SUMMARY OF QUANTITIES
SHEET 8 OF 106

REMOVAL OF IMPROVEMENTS - 1 LUMP SUM (CONT.)

SHEET NO.	PLAN SHEET NO.	ROADWAY	CENTER LINE	STATION FROM	STATION TO	LOCATION	LENGTH (FEET)	WIDTH (FEET)	AREA (SF)	AREA (SY)	EACH	DESCRIPTION OF REMOVAL
14	11 OF 31	RTE 231/KINGSTON	RTE 231	63+37.49	63+71.83	LEFT	6.00	34.40	206.40	23.00	-	CONCRETE SIDEWALK
14	11 OF 31	RTE 231/KINGSTON	RTE 231	63+50.00	66+27.26	RIGHT	6.00	277.30	1,663.80	184.90	-	CONCRETE SIDEWALK
14	11 OF 31	RTE 231/KINGSTON	RTE 231	63+64.66	63+92.66	LEFT	8.50	28.00	117.70	13.10	-	CONCRETE DRIVEWAY
14	11 OF 31	RTE 231/KINGSTON	RTE 231	63+81.84	-	RIGHT	-	-	-	-	1	ITS POLE
14	11 OF 31	RTE 231/KINGSTON	RTE 231	64+50.48	64+71.43	LEFT	6.00	21.00	126.00	14.00	-	CONCRETE CURB RAMP
14	11 OF 31	TACOMA	TACOMA	85+29.46	85+58.59	RIGHT	29.20	0.90	26.30	3.00	-	CONCRETE CURB
14	11 OF 31	TACOMA	TACOMA	85+32.14	85+58.55	LEFT	26.50	0.90	23.90	2.70	-	CONCRETE CURB
14	11 OF 31	TACOMA	TACOMA	85+46.32	-	LEFT	-	-	-	-	1	EXISTING SIGN
14	11 OF 31	RTE 231/KINGSTON	RTE 231	65+11.51	65+35.06	LEFT	6.00	23.60	141.60	15.80	-	CONCRETE CURB RAMP
14	11 OF 31	RTE 231/KINGSTON	RTE 231	65+14.59	-	LEFT	-	-	-	-	1	EXISTING SIGN
14	11 OF 31	RTE 231/KINGSTON	RTE 231	65+53.48	-	LEFT	-	-	-	-	1	EXISTING SIGN
14	11 OF 31	RTE 231/KINGSTON	RTE 231	66+03.77	66+29.65	LEFT	8.50	25.90	112.30	12.50	-	CONCRETE DRIVEWAY
14	11 OF 31	RTE 231/KINGSTON	RTE 231	66+09.11	-	RIGHT	-	-	-	-	1	EXISTING SIGN
14	11 OF 31	RTE 231/KINGSTON	RTE 231	66+21.47	-	RIGHT	-	-	-	-	1	DENSE FOLIAGE
14	11 OF 31	RTE 231/KINGSTON	RTE 231	66+23.25	66+57.16	RIGHT	34.00	34.00	1,248.70	138.80	-	EXISTING GRAVEL
14	11 OF 31	RTE 231/KINGSTON	RTE 231	66+30.49	66+31.22	RIGHT	0.80	0.80	0.70	0.10	-	CONCRETE CURB
14	11 OF 31	RTE 231/KINGSTON	RTE 231	66+37.29	-	LEFT	-	-	-	-	1	TREE AND BUSHES
14	11 OF 31	RTE 231/KINGSTON	RTE 231	66+49.33	-	LEFT	-	-	-	-	1	EXISTING SIGN
14	11 OF 31	RTE 231/KINGSTON	RTE 231	66+54.21	67+21.60	RIGHT	67.40	67.40	831.60	92.40	-	CONCRETE DRIVEWAY
14	11 OF 31	RTE 231/KINGSTON	RTE 231	66+55.06	67+41.51	LEFT	6.00	86.50	519.00	57.70	-	CONCRETE SIDEWALK
14	11 OF 31	RTE 231/KINGSTON	RTE 231	67+37.51	-	RIGHT	-	-	-	-	1	EXISTING SIGN
14	11 OF 31	RTE 231/KINGSTON	RTE 231	67+41.51	67+52.43	LEFT	6.00	11.00	66.00	7.40	-	CONCRETE CURB RAMP
14	11 OF 31	SOUTHWARK	SOUTHWARK	90+32.20	90+49.49	RIGHT	17.30	0.90	15.60	1.80	-	CONCRETE CURB
14	11 OF 31	SOUTHWARK	SOUTHWARK	90+33.80	90+50.95	LEFT	17.20	0.90	15.50	1.80	-	CONCRETE CURB
14	11 OF 31	SOUTHWARK	SOUTHWARK	90+41.65	-	LEFT	-	-	-	-	1	EXISTING SIGN
14	11 OF 31	RTE 231/KINGSTON	RTE 231	67+82.48	67+93.30	LEFT	6.00	10.90	65.40	7.30	-	CONCRETE CURB RAMP
14	11 OF 31	RTE 231/KINGSTON	RTE 231	67+88.43	-	RIGHT	-	-	-	-	1	EXISTING SIGN
14	11 OF 31	RTE 231/KINGSTON	RTE 231	67+93.16	69+88.32	LEFT	6.00	195.20	1,171.20	130.20	-	CONCRETE SIDEWALK
14	11 OF 31	RTE 231/KINGSTON	RTE 231	68+01.00	-	LEFT	-	-	-	-	1	EXISTING SIGN
14	11 OF 31	RTE 231/KINGSTON	RTE 231	68+23.98	68+77.60	RIGHT	14.50	53.70	647.90	72.00	-	CONCRETE DRIVEWAY
15	12 OF 31	RTE 231/KINGSTON	RTE 231	68+91.05	-	RIGHT	-	-	-	-	1	EXISTING SIGN
15	12 OF 31	RTE 231/KINGSTON	RTE 231	69+06.01	-	LEFT	-	-	-	-	1	EXISTING SIGN
15	12 OF 31	RTE 231/KINGSTON	RTE 231	69+83.39	-	RIGHT	-	-	-	-	1	EXISTING SIGN
15	12 OF 31	RTE 231/KINGSTON	RTE 231	69+84.49	70+40.36	RIGHT	14.50	55.90	667.90	74.30	-	CONCRETE DRIVEWAY
15	12 OF 31	RTE 231/KINGSTON	RTE 231	69+88.32	69+98.06	LEFT	6.00	9.80	58.80	6.60	-	CONCRETE CURB RAMP
15	12 OF 31	EARLSFIELD	EARLSFIELD	95+39.39	-	LEFT	-	-	-	-	1	EXISTING SIGN
15	12 OF 31	RTE 231/KINGSTON	RTE 231	70+37.27	70+48.38	LEFT	6.00	11.20	67.20	7.50	-	CONCRETE CURB RAMP
15	12 OF 31	RTE 231/KINGSTON	RTE 231	70+48.43	72+60.03	LEFT	6.00	211.60	1,269.60	141.10	-	CONCRETE SIDEWALK
15	12 OF 31	RTE 231/KINGSTON	RTE 231	70+53.06	71+86.92	RIGHT	-	-	-	-	1	DENSE FOLIAGE
15	12 OF 31	RTE 231/KINGSTON	RTE 231	70+59.03	-	LEFT	-	-	-	-	1	LIGHT POLE
15	12 OF 31	RTE 231/KINGSTON	RTE 231	70+72.21	72+29.70	LEFT	-	-	-	-	9	TREE
15	12 OF 31	RTE 231/KINGSTON	RTE 231	70+74.50	-	LEFT	-	-	-	-	1	EXISTING SIGN
												-

STATE OF MISSOURI
DENNIS J KOSCIELSKI
NUMBER PE-2005000712
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED
7/25/2025

ROUTE	STATE
231	MO
DISTRICT	SHEET NO.
SL	3

COUNTY
ST. LOUIS

JOB NO.
J6S3631

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION	DATE

IF A SEAL IS PRESENT ON THIS SHEET, IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

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LAYOUT	NS	01/2025
DRAWN	SMC	01/2025
REVIEWED	DJK	01/2025

SUMMARY OF QUANTITIES
SHEET 9 OF 106

REMOVAL OF IMPROVEMENTS - 1 LUMP SUM (CONT.)

SHEET NO.	PLAN SHEET NO.	ROADWAY	CENTER LINE	STATION FROM	STATION TO	LOCATION	LENGTH (FEET)	WIDTH (FEET)	AREA (SF)	AREA (SY)	EACH	DESCRIPTION OF REMOVAL
15	12 OF 31	RTE 231/KINGSTON	RTE 231	71+06.68	-	LEFT	-	-	-	-	1	EXISTING SIGN
15	12 OF 31	RTE 231/KINGSTON	RTE 231	71+47.65	-	LEFT	-	-	-	-	1	EXISTING SIGN
15	12 OF 31	RTE 231/KINGSTON	RTE 231	71+99.92	-	RIGHT	-	-	-	-	1	EXISTING SIGN
15	12 OF 31	RTE 231/KINGSTON	RTE 231	72+23.30	-	RIGHT	-	-	-	-	1	EXISTING SIGN
15	12 OF 31	RTE 231/KINGSTON	RTE 231	72+28.25	-	LEFT	-	-	-	-	1	EXISTING SIGN
15	12 OF 31	RTE 231/KINGSTON	RTE 231	72+51.24	72+66.13	RIGHT	14.90	0.90	13.50	1.50	-	CONCRETE CURB
15	12 OF 31	RTE 231/KINGSTON	RTE 231	72+54.12	72+98.67	RIGHT	24.50	44.60	817.40	90.90	-	ASPHALT DRIVEWAY
15	12 OF 31	RTE 231/KINGSTON	RTE 231	72+60.11	72+69.23	LEFT	6.00	9.20	55.20	6.20	-	CONCRETE CURB RAMP
15	12 OF 31	SOUTHAMPTON	SOUTHAMPTON	100+29.56	100+49.05	RIGHT	19.50	0.90	17.60	2.00	-	CONCRETE CURB
15	12 OF 31	SOUTHAMPTON	SOUTHAMPTON	100+38.62	-	LEFT	-	-	-	-	2	EXISTING SIGN
15	12 OF 31	RTE 231/KINGSTON	RTE 231	73+05.85	73+19.97	LEFT	6.00	14.20	85.20	9.50	-	CONCRETE CURB RAMP
15	12 OF 31	RTE 231/KINGSTON	RTE 231	73+19.97	73+75.00	LEFT	6.00	55.10	330.60	36.80	-	CONCRETE SIDEWALK
16	13 OF 31	RTE 231/KINGSTON	RTE 231	73+75.00	75+21.05	LEFT	6.00	146.10	876.60	97.40	-	CONCRETE SIDEWALK
16	13 OF 31	RTE 231/KINGSTON	RTE 231	73+98.86	74+47.57	RIGHT	24.50	48.80	895.10	99.50	-	ASPHALT DRIVEWAY
16	13 OF 31	RTE 231/KINGSTON	RTE 231	74+27.72	75+38.70	LEFT	-	-	-	-	1	TREE AND BUSHES
16	13 OF 31	RTE 231/KINGSTON	RTE 231	74+69.81	-	RIGHT	-	-	-	-	1	EXISTING SIGN
16	13 OF 31	RTE 231/KINGSTON	RTE 231	75+17.93	75+67.21	RIGHT	24.50	49.30	897.40	99.80	-	ASPHALT DRIVEWAY
16	13 OF 31	RTE 231/KINGSTON	RTE 231	75+21.05	75+37.12	LEFT	6.00	16.10	96.60	10.80	-	CONCRETE CURB RAMP
16	13 OF 31	WOOLWICH	WOOLWICH	105+29.10	105+43.77	RIGHT	14.70	0.90	13.30	1.50	-	CONCRETE CURB
16	13 OF 31	WOOLWICH	WOOLWICH	105+30.67	105+43.77	LEFT	13.20	0.90	11.90	1.40	-	CONCRETE CURB
16	13 OF 31	WOOLWICH	WOOLWICH	105+37.01	-	RIGHT	-	-	-	-	1	EXISTING SIGN
16	13 OF 31	WOOLWICH	WOOLWICH	105+45.47	-	LEFT	-	-	-	-	1	EXISTING SIGN
16	13 OF 31	RTE 231/KINGSTON	RTE 231	75+78.47	75+94.79	LEFT	6.00	16.40	98.40	11.00	-	CONCRETE CURB RAMP
16	13 OF 31	RTE 231/KINGSTON	RTE 231	75+94.84	77+99.51	LEFT	6.00	204.70	1,228.20	136.50	-	CONCRETE SIDEWALK
16	13 OF 31	RTE 231/KINGSTON	RTE 231	76+93.16	-	LEFT	-	-	-	-	1	EXISTING SIGN
16	13 OF 31	RTE 231/KINGSTON	RTE 231	76+97.31	-	RIGHT	-	-	-	-	1	EXISTING SIGN
16	13 OF 31	RTE 231/KINGSTON	RTE 231	77+99.61	78+09.05	LEFT	6.00	9.50	57.00	6.40	-	CONCRETE CURB RAMP
16	13 OF 31	PENTONVILLE	PENTONVILLE	110+29.18	110+51.58	RIGHT	22.40	0.90	20.20	2.30	-	CONCRETE CURB
16	13 OF 31	PENTONVILLE	PENTONVILLE	110+45.27	-	LEFT	-	-	-	-	2	EXISTING SIGN
16	13 OF 31	RTE 231/KINGSTON	RTE 231	78+23.00	-	RIGHT	-	-	-	-	1	EXISTING SIGN
16	13 OF 31	RTE 231/KINGSTON	RTE 231	78+50.78	78+68.42	LEFT	6.00	17.70	106.20	11.80	-	CONCRETE CURB RAMP
16	13 OF 31	RTE 231/KINGSTON	RTE 231	78+53.39	-	RIGHT	-	-	-	-	1	EXISTING SIGN
16	13 OF 31	RTE 231/KINGSTON	RTE 231	78+68.39	78+75.00	LEFT	6.00	6.70	40.20	4.50	-	CONCRETE SIDEWALK
17	14 OF 31	RTE 231/KINGSTON	RTE 231	78+75.00	80+70.76	LEFT	6.00	195.80	1,174.80	130.60	-	CONCRETE SIDEWALK
17	14 OF 31	RTE 231/KINGSTON	RTE 231	78+92.99	79+61.74	RIGHT	24.50	68.80	1,122.70	124.80	-	ASPHALT DRIVEWAY
17	14 OF 31	RTE 231/KINGSTON	RTE 231	79+01.74	-	LEFT	-	-	-	-	1	EXISTING SIGN
17	14 OF 31	RTE 231/KINGSTON	RTE 231	79+62.45	79+72.89	LEFT	-	-	-	-	3	TREE
17	14 OF 31	RTE 231/KINGSTON	RTE 231	79+66.71	80+54.90	RIGHT	6.00	88.20	529.20	58.80	-	CONCRETE SIDEWALK
17	14 OF 31	RTE 231/KINGSTON	RTE 231	79+99.36	80+38.04	LEFT	-	-	-	-	9	TREE
17	14 OF 31	RTE 231/KINGSTON	RTE 231	80+43.92	-	RIGHT	-	-	-	-	1	EXISTING SIGN
17	14 OF 31	RTE 231/KINGSTON	RTE 231	80+58.02	81+08.85	RIGHT	7.50	50.90	306.40	34.10	-	ASPHALT DRIVEWAY
17	14 OF 31	RTE 231/KINGSTON	RTE 231	80+70.72	80+80.12	LEFT	6.00	9.40	56.40	6.30	-	CONCRETE CURB RAMP
												-

STATE OF MISSOURI
DENNIS J KOSCIELSKI
NUMBER PE-2005000712
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED
7/25/2025

ROUTE	STATE
231	MO
DISTRICT	SHEET NO.
SL	3

COUNTY
ST. LOUIS

JOB NO.
J6S3631

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION	DATE

IF A SEAL IS PRESENT ON THIS SHEET, IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
MoDOT
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

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Professional Engineer 001632
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314.770.0467

LAYOUT	NS	01/2025
DRAWN	SMC	01/2025
REVIEWED	DJK	01/2025

SUMMARY OF QUANTITIES
SHEET 10 OF 106

REMOVAL OF IMPROVEMENTS - 1 LUMP SUM (CONT.)

SHEET NO.	PLAN SHEET NO.	ROADWAY	CENTER LINE	STATION FROM	STATION TO	LOCATION	LENGTH (FEET)	WIDTH (FEET)	AREA (SF)	AREA (SY)	EACH	DESCRIPTION OF REMOVAL
17	14 OF 31	WALWORTH	WALWORTH	115+33.99	115+57.38	RIGHT	23.40	0.90	21.10	2.40	-	CONCRETE CURB
17	14 OF 31	WALWORTH	WALWORTH	115+41.24	-	RIGHT	-	-	-	-	1	EXISTING SIGN
17	14 OF 31	WALWORTH	WALWORTH	115+41.84	-	LEFT	-	-	-	-	1	EXISTING SIGN
17	14 OF 31	RTE 231/KINGSTON	RTE 231	80+99.12	82+37.59	RIGHT	138.50	1.00	138.50	15.40	-	CONCRETE CURB
17	14 OF 31	RTE 231/KINGSTON	RTE 231	81+06.43	82+26.93	RIGHT	120.50	0.90	108.50	12.10	-	CONCRETE CURB
17	14 OF 31	RTE 231/KINGSTON	RTE 231	81+09.78	-	RIGHT	-	-	-	-	1	EXISTING SIGN
17	14 OF 31	RTE 231/KINGSTON	RTE 231	81+11.97	82+22.04	RIGHT	6.00	110.10	660.60	73.40	-	CONCRETE SIDEWALK
17	14 OF 31	RTE 231/KINGSTON	RTE 231	81+20.15	81+37.12	LEFT	6.00	17.00	102.00	11.40	-	CONCRETE CURB RAMP
17	14 OF 31	RTE 231/KINGSTON	RTE 231	81+21.58	-	LEFT	-	-	-	-	1	ITS POLE
17	14 OF 31	RTE 231/KINGSTON	RTE 231	81+29.14	-	LEFT	-	-	-	-	1	LIGHT POLE
17	14 OF 31	RTE 231/KINGSTON	RTE 231	81+37.11	83+15.89	LEFT	6.00	178.80	1,072.80	119.20	-	CONCRETE SIDEWALK
17	14 OF 31	RTE 231/KINGSTON	RTE 231	81+64.20	-	RIGHT	-	-	-	-	1	EXISTING SIGN
17	14 OF 31	RTE 231/KINGSTON	RTE 231	81+96.59	-	RIGHT	-	-	-	-	1	EXISTING SIGN
17	14 OF 31	RTE 231/KINGSTON	RTE 231	82+16.08	83+14.33	LEFT	98.30	-	-	-	1	RETAINING WALL & HANDRAIL
17	14 OF 31	RTE 231/KINGSTON	RTE 231	82+22.49	-	RIGHT	-	-	-	-	1	EXISTING SIGN
17	14 OF 31	RTE 231/KINGSTON	RTE 231	82+25.16	82+69.57	RIGHT	7.50	44.50	281.40	31.30	-	ASPHALT DRIVEWAY
17	14 OF 31	RTE 231/KINGSTON	RTE 231	82+69.35	82+73.12	RIGHT	9.50	3.80	36.10	4.10	-	CONCRETE CURB RAMP
17	14 OF 31	RTE 231/KINGSTON	RTE 231	83+04.31	-	LEFT	-	-	-	-	1	TREE
17	14 OF 31	RTE 231/KINGSTON	RTE 231	83+13.63	-	LEFT	-	-	-	-	1	EXISTING SIGN
17	14 OF 31	RTE 231/KINGSTON	RTE 231	83+15.88	83+32.52	LEFT	6.00	16.70	100.20	11.20	-	CONCRETE CURB RAMP
17	14 OF 31	LAMBETH	LAMBETH	120+31.82	120+48.95	RIGHT	17.20	0.90	15.50	1.80	-	CONCRETE CURB
17	14 OF 31	LAMBETH	LAMBETH	120+47.91	-	LEFT	-	-	-	-	2	EXISTING SIGN
17	14 OF 31	RTE 231/KINGSTON	RTE 231	83+61.42	83+75.50	LEFT	5.00	14.10	70.50	7.90	-	CONCRETE CURB RAMP
17	14 OF 31	RTE 231/KINGSTON	RTE 231	83+92.99	-	RIGHT	-	-	-	-	1	EXISTING SIGN
17	14 OF 31	RTE 231/KINGSTON	RTE 231	83+92.43	84+38.14	RIGHT	11.50	45.80	395.30	44.00	-	ASPHALT DRIVEWAY
18	15 OF 31	RTE 231/KINGSTON	RTE 231	84+00.00	85+78.40	LEFT	6.00	178.40	1,070.40	119.00	-	CONCRETE SIDEWALK
18	15 OF 31	RTE 231/KINGSTON	RTE 231	84+30.46	84+37.96	RIGHT	7.50	0.90	6.80	0.80	-	CONCRETE CURB
18	15 OF 31	RTE 231/KINGSTON	RTE 231	84+79.02	85+58.91	LEFT	79.90	-	-	-	-	FENCE
18	15 OF 31	RTE 231/KINGSTON	RTE 231	84+96.04	-	LEFT	-	-	-	-	1	EXISTING SIGN
18	15 OF 31	RTE 231/KINGSTON	RTE 231	85+78.19	85+85.18	LEFT	5.00	7.00	35.00	3.90	-	CONCRETE CURB RAMP
18	15 OF 31	RTE 231/KINGSTON	RTE 231	85+80.31	-	LEFT	-	-	-	-	1	EXISTING SIGN
18	15 OF 31	RTE 231/KINGSTON	RTE 231	85+97.32	-	RIGHT	-	-	-	-	1	EXISTING SIGN
18	15 OF 31	RTE 231/KINGSTON	RTE 231	86+11.99	86+18.95	LEFT	5.00	7.00	35.00	3.90	-	CONCRETE CURB RAMP
18	15 OF 31	RTE 231/KINGSTON	RTE 231	86+16.66	-	LEFT	-	-	-	-	1	EXISTING SIGN
18	15 OF 31	RTE 231/KINGSTON	RTE 231	86+18.95	88+33.43	LEFT	5.00	214.50	1,072.50	119.20	-	CONCRETE SIDEWALK
18	15 OF 31	RTE 231/KINGSTON	RTE 231	86+67.56	-	RIGHT	-	-	-	-	1	EXISTING SIGN
18	15 OF 31	RTE 231/KINGSTON	RTE 231	86+81.09	87+20.51	RIGHT	15.50	39.50	445.60	49.60	-	ASPHALT DRIVEWAY
18	15 OF 31	RTE 231/KINGSTON	RTE 231	86+99.01	-	LEFT	-	-	-	-	1	EXISTING SIGN
18	15 OF 31	RTE 231/KINGSTON	RTE 231	88+19.75	88+41.15	LEFT	21.40	0.90	19.30	2.20	-	CONCRETE CURB
18	15 OF 31	RTE 231/KINGSTON	RTE 231	88+25.82	88+95.90	LEFT	17.00	70.10	837.90	93.10	-	ASPHALT DRIVEWAY
18	15 OF 31	RTE 231/KINGSTON	RTE 231	88+33.43	88+40.21	LEFT	6.00	6.80	40.80	4.60	-	CONCRETE CURB RAMP
18	15 OF 31	RTE 231/KINGSTON	RTE 231	88+78.21	-	RIGHT	-	-	-	-	1	EXISTING SIGN
												-

SUMMARY OF QUANTITIES
SHEET 11 OF 106

STATE OF MISSOURI
DENNIS J KOSCIELSKI
NUMBER PE-2005000712
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED 7/25/2025

ROUTE	STATE
231	MO
DISTRICT	SHEET NO.
SL	3

COUNTY ST. LOUIS
JOB NO. J6S3631
CONTRACT ID.
PROJECT NO.
BRIDGE NO.

DESCRIPTION	DATE

IF A SEAL IS PRESENT ON THIS SHEET, IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

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314.770.0467

LAYOUT	NS	01/2025
DRAWN	SMC	01/2025
REVIEWED	DJK	01/2025

REMOVAL OF IMPROVEMENTS - 1 LUMP SUM (CONT.)

SHEET NO.	PLAN SHEET NO.	ROADWAY	CENTER LINE	STATION FROM	STATION TO	LOCATION	LENGTH (FEET)	WIDTH (FEET)	AREA (SF)	AREA (SY)	EACH	DESCRIPTION OF REMOVAL
18	15 OF 31	RTE 231/KINGSTON	RTE 231	88+81.37	88+97.66	LEFT	16.30	0.90	14.70	1.70	-	CONCRETE CURB
18	15 OF 31	RTE 231/KINGSTON	RTE 231	88+82.44	88+97.78	LEFT	6.00	15.40	92.40	10.30	-	CONCRETE CURB RAMP
18	15 OF 31	RTE 231/KINGSTON	RTE 231	88+96.43	-	RIGHT	-	-	-	-	1	EXISTING SIGN
18	15 OF 31	RTE 231/KINGSTON	RTE 231	88+97.66	90+60.79	LEFT	163.20	0.90	146.90	16.40	-	CONCRETE CURB
18	15 OF 31	RTE 231/KINGSTON	RTE 231	88+97.78	89+25.00	LEFT	6.00	27.30	163.80	18.20	-	CONCRETE SIDEWALK
18	15 OF 31	RTE 231/KINGSTON	RTE 231	89+07.13	-	LEFT	-	-	-	-	1	EXISTING SIGN
19	16 OF 31	RTE 231/KINGSTON	RTE 231	89+25.00	90+58.34	LEFT	6.00	133.40	800.40	89.00	-	CONCRETE SIDEWALK
19	16 OF 31	RTE 231/KINGSTON	RTE 231	89+25.14	-	LEFT	-	-	-	-	2	EXISTING SIGN
19	16 OF 31	RTE 231/KINGSTON	RTE 231	89+92.25	-	LEFT	-	-	-	-	1	EXISTING SIGN
19	16 OF 31	RTE 231/KINGSTON	RTE 231	90+17.77	-	LEFT	-	-	-	-	1	EXISTING SIGN
19	16 OF 31	RTE 231/KINGSTON	RTE 231	90+48.20	-	LEFT	-	-	-	-	3	EXISTING SIGN
19	16 OF 31	RTE 231/KINGSTON	RTE 231	90+58.34	90+68.43	LEFT	6.00	10.10	60.60	6.80	-	CONCRETE CURB RAMP
19	16 OF 31	RTE 231/KINGSTON	RTE 231	90+72.31	91+16.06	RIGHT	5.50	43.80	194.20	21.60	-	ASPHALT DRIVEWAY
19	16 OF 31	RTE 231/KINGSTON	RTE 231	91+12.10	91+58.13	LEFT	9.50	46.10	359.70	40.00	-	ASPHALT DRIVEWAY
19	16 OF 31	RTE 231/KINGSTON	RTE 231	91+57.17	91+61.58	LEFT	6.00	4.50	27.00	3.00	-	CONCRETE CURB RAMP
19	16 OF 31	RTE 231/KINGSTON	RTE 231	91+83.40	91+90.63	LEFT	6.00	7.30	43.80	4.90	-	CONCRETE CURB RAMP
19	16 OF 31	RTE 231/KINGSTON	RTE 231	91+86.22	92+47.55	LEFT	10.00	61.40	516.10	57.40	-	ASPHALT DRIVEWAY
19	16 OF 31	RTE 231/KINGSTON	RTE 231	92+02.99	-	RIGHT	-	-	-	-	1	EXISTING SIGN
19	16 OF 31	RTE 231/KINGSTON	RTE 231	92+51.04	92+68.50	LEFT	11.50	17.50	131.10	14.60	-	ASPHALT DRIVEWAY
19	16 OF 31	RTE 231/KINGSTON	RTE 231	92+73.75	92+97.68	RIGHT	24.00	0.90	21.60	2.40	-	CONCRETE CURB
19	16 OF 31	RTE 231/KINGSTON	RTE 231	92+92.12	93+29.49	RIGHT	6.50	37.40	131.10	14.60	-	ASPHALT DRIVEWAY
19	16 OF 31	RTE 231/KINGSTON	RTE 231	93+09.87	93+40.01	LEFT	15.00	30.20	289.30	32.20	-	ASPHALT DRIVEWAY
19	16 OF 31	RTE 231/KINGSTON	RTE 231	93+27.26	93+65.04	RIGHT	4.00	37.80	151.20	16.80	-	CONCRETE SIDEWALK
19	16 OF 31	RTE 231/KINGSTON	RTE 231	93+28.48	93+62.13	RIGHT	33.70	0.90	30.40	3.40	-	CONCRETE CURB
19	16 OF 31	RTE 231/KINGSTON	RTE 231	93+34.92	94+10.97	LEFT	6.00	76.10	456.60	50.80	-	CONCRETE SIDEWALK
19	16 OF 31	RTE 231/KINGSTON	RTE 231	93+62.90	93+92.02	RIGHT	7.50	29.20	188.10	20.90	-	ASPHALT DRIVEWAY
19	16 OF 31	RTE 231/KINGSTON	RTE 231	94+01.11	-	RIGHT	-	-	-	-	1	EXISTING SIGN
19	16 OF 31	RTE 231/KINGSTON	RTE 231	94+04.25	94+48.35	LEFT	12.00	44.10	341.10	37.90	-	ASPHALT DRIVEWAY
19	16 OF 31	RTE 231/KINGSTON	RTE 231	94+14.08	-	RIGHT	-	-	-	-	1	EXISTING SIGN
19	16 OF 31	RTE 231/KINGSTON	RTE 231	94+17.02	94+77.66	RIGHT	7.50	60.70	423.90	47.10	-	ASPHALT DRIVEWAY
20	17 OF 31	RTE 231/KINGSTON	RTE 231	94+40.77	95+15.33	LEFT	74.60	-	-	-	1	HANDRAIL
20	17 OF 31	RTE 231/KINGSTON	RTE 231	94+41.17	95+15.27	LEFT	6.00	74.10	444.60	49.50	-	CONCRETE SIDEWALK
20	17 OF 31	RTE 231/KINGSTON	RTE 231	94+75.49	95+28.48	RIGHT	6.00	53.00	318.00	35.40	-	CONCRETE SIDEWALK
20	17 OF 31	RTE 231/KINGSTON	RTE 231	94+77.18	95+26.37	RIGHT	49.20	4.00	196.80	21.90	-	CONCRETE CURB AND MEDIAN
20	17 OF 31	RTE 231/KINGSTON	RTE 231	94+81.80	-	RIGHT	-	-	-	-	1	EXISTING SIGN
20	17 OF 31	RTE 231/KINGSTON	RTE 231	95+10.13	95+41.65	LEFT	13.00	31.60	261.50	29.10	-	ASPHALT DRIVEWAY
20	17 OF 31	RTE 231/KINGSTON	RTE 231	95+26.33	95+93.48	RIGHT	6.50	67.20	395.20	44.00	-	ASPHALT DRIVEWAY
20	17 OF 31	RTE 231/KINGSTON	RTE 231	95+36.18	96+14.96	LEFT	78.80	-	-	-	1	HANDRAIL
20	17 OF 31	RTE 231/KINGSTON	RTE 231	95+86.86	96+72.64	RIGHT	85.80	0.90	77.30	8.60	-	CONCRETE CURB
20	17 OF 31	RTE 231/KINGSTON	RTE 231	95+88.86	99+25.00	RIGHT	6.00	336.20	2,017.20	224.20	-	CONCRETE SIDEWALK
20	17 OF 31	RTE 231/KINGSTON	RTE 231	96+05.25	-	RIGHT	-	-	-	-	1	EXISTING SIGN
20	17 OF 31	RTE 231/KINGSTON	RTE 231	96+09.47	96+38.98	LEFT	15.00	29.60	265.70	29.60	-	ASPHALT DRIVEWAY
												-

STATE OF MISSOURI
DENNIS J KOSCIELSKI
NUMBER PE-2005000712
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

DATE PREPARED: 7/25/2025

ROUTE	STATE
231	MO
DISTRICT	SHEET NO.
SL	3

COUNTY: ST. LOUIS

JOB NO.: J6S3631

CONTRACT ID.:

PROJECT NO.:

BRIDGE NO.:

DESCRIPTION	DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

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St. Louis, Missouri 63101
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314.770.0467

LAYOUT	NS	01/2025
DRAWN	SMC	01/2025
REVIEWED	DJK	01/2025

SUMMARY OF QUANTITIES
SHEET 12 OF 106

REMOVAL OF IMPROVEMENTS - 1 LUMP SUM (CONT.)

SHEET NO.	PLAN SHEET NO.	ROADWAY	CENTER LINE	STATION FROM	STATION TO	LOCATION	LENGTH (FEET)	WIDTH (FEET)	AREA (SF)	AREA (SY)	EACH	DESCRIPTION OF REMOVAL
20	17 OF 31	RTE 231/KINGSTON	RTE 231	96+33.46	97+13.94	LEFT	80.50	-	-	-	1	HANDRAIL
20	17 OF 31	RTE 231/KINGSTON	RTE 231	96+66.01	-	RIGHT	-	-	-	-	1	EXISTING SIGN
20	17 OF 31	RTE 231/KINGSTON	RTE 231	97+08.33	97+39.28	LEFT	14.00	31.00	265.90	29.60	-	ASPHALT DRIVEWAY
20	17 OF 31	RTE 231/KINGSTON	RTE 231	97+50.33	-	RIGHT	-	-	-	-	1	EXISTING SIGN
20	17 OF 31	RTE 231/KINGSTON	RTE 231	97+63.09	-	RIGHT	-	-	-	-	1	EXISTING SIGN
20	17 OF 31	RTE 231/KINGSTON	RTE 231	97+74.53	-	LEFT	-	-	-	-	1	EXISTING SIGN
20	17 OF 31	RTE 231/KINGSTON	RTE 231	98+10.19	98+39.30	LEFT	13.00	29.20	232.60	25.90	-	ASPHALT DRIVEWAY
20	17 OF 31	RTE 231/KINGSTON	RTE 231	98+11.17	98+34.37	RIGHT	6.50	23.20	95.50	10.70	-	ASPHALT DRIVEWAY
20	17 OF 31	RTE 231/KINGSTON	RTE 231	98+33.94	99+13.95	LEFT	6.00	80.10	480.60	53.40	-	CONCRETE SIDEWALK
20	17 OF 31	RTE 231/KINGSTON	RTE 231	98+43.99	-	RIGHT	-	-	-	-	1	EXISTING SIGN
20	17 OF 31	RTE 231/KINGSTON	RTE 231	98+76.11	99+08.08	RIGHT	4.50	32.00	107.60	12.00	-	ASPHALT DRIVEWAY
20	17 OF 31	RTE 231/KINGSTON	RTE 231	99+03.62	99+25.00	RIGHT	21.40	0.90	19.30	2.20	-	CONCRETE CURB
20	17 OF 31	RTE 231/KINGSTON	RTE 231	99+09.01	99+33.46	RIGHT	10.00	24.50	146.90	16.40	-	CONCRETE DRIVEWAY
21	18 OF 31	RTE 231/KINGSTON	RTE 231	99+25.00	99+90.45	RIGHT	65.50	0.90	59.00	6.60	-	CONCRETE CURB
21	18 OF 31	RTE 231/KINGSTON	RTE 231	99+29.12	-	RIGHT	-	-	-	-	1	EXISTING SIGN
21	18 OF 31	RTE 231/KINGSTON	RTE 231	99+31.90	99+61.27	LEFT	29.40	0.90	26.50	3.00	-	CONCRETE CURB
21	18 OF 31	RTE 231/KINGSTON	RTE 231	99+59.82	99+81.16	LEFT	8.00	21.40	100.50	11.20	-	CONCRETE DRIVEWAY
21	18 OF 31	RTE 231/KINGSTON	RTE 231	99+76.68	100+83.89	LEFT	6.00	107.30	643.80	71.60	-	CONCRETE SIDEWALK
21	18 OF 31	RTE 231/KINGSTON	RTE 231	99+77.97	100+80.06	LEFT	102.10	0.90	91.90	10.30	-	CONCRETE CURB
21	18 OF 31	RTE 231/KINGSTON	RTE 231	99+80.21	-	RIGHT	-	-	-	-	1	EXISTING SIGN
21	18 OF 31	RTE 231/KINGSTON	RTE 231	99+87.13	100+03.19	RIGHT	4.00	16.10	64.40	7.20	-	CONCRETE CURB RAMP
21	18 OF 31	BROADWAY	BROADWAY	135+41.46	135+82.68	LEFT	41.30	0.90	37.20	4.20	-	CONCRETE CURB
21	18 OF 31	BROADWAY	BROADWAY	135+41.46	135+90.28	RIGHT	48.90	0.90	44.10	4.90	-	CONCRETE CURB
21	18 OF 31	BROADWAY	BROADWAY	135+41.46	135+74.76	LEFT	6.00	33.40	200.40	22.30	-	CONCRETE SIDEWALK
21	18 OF 31	BROADWAY	BROADWAY	135+41.46	135+74.76	RIGHT	6.00	33.40	200.40	22.30	-	CONCRETE SIDEWALK
21	18 OF 31	BROADWAY	BROADWAY	135+61.01	-	RIGHT	-	-	-	-	1	EXISTING SIGN
21	18 OF 31	BROADWAY	BROADWAY	135+68.23	-	LEFT	-	-	-	-	2	EXISTING SIGN
21	18 OF 31	RTE 231/BROADWAY	RTE 231	100+59.05	-	LEFT	-	-	-	-	1	EXISTING SIGN
21	18 OF 31	RTE 231/BROADWAY	RTE 231	100+78.66	101+24.35	LEFT	8.00	45.70	279.10	31.10	-	ASPHALT DRIVEWAY
21	18 OF 31	RTE 231/BROADWAY	RTE 231	100+85.57	101+01.78	RIGHT	7.00	16.30	114.10	12.70	-	CONCRETE CURB RAMP
21	18 OF 31	RTE 231/BROADWAY	RTE 231	101+05.70	-	RIGHT	-	-	-	-	2	EXISTING SIGN
21	18 OF 31	RTE 231/BROADWAY	RTE 231	101+22.48	101+91.53	LEFT	69.10	0.90	62.20	7.00	-	CONCRETE CURB
21	18 OF 31	RTE 231/BROADWAY	RTE 231	101+27.90	-	RIGHT	-	-	-	-	1	ITS POLE
21	18 OF 31	RTE 231/BROADWAY	RTE 231	101+41.99	101+60.11	RIGHT	18.20	0.90	16.40	1.90	-	CONCRETE CURB
21	18 OF 31	RTE 231/BROADWAY	RTE 231	101+47.06	102+04.21	RIGHT	7.00	57.20	312.00	34.70	-	CONCRETE DRIVEWAY
21	18 OF 31	RTE 231/BROADWAY	RTE 231	101+61.27	-	LEFT	-	-	-	-	1	ITS POLE
21	18 OF 31	RTE 231/BROADWAY	RTE 231	101+69.54	-	LEFT	-	-	-	-	1	EXISTING SIGN
21	18 OF 31	RTE 231/BROADWAY	RTE 231	101+87.31	102+30.96	LEFT	8.00	43.70	260.60	29.00	-	ASPHALT DRIVEWAY
21	18 OF 31	RTE 231/BROADWAY	RTE 231	101+95.32	102+06.94	RIGHT	11.70	0.90	10.60	1.20	-	CONCRETE CURB
21	18 OF 31	RTE 231/BROADWAY	RTE 231	101+98.52	102+70.94	LEFT	6.00	72.50	435.00	48.40	-	CONCRETE SIDEWALK
21	18 OF 31	RTE 231/BROADWAY	RTE 231	102+06.94	102+73.69	RIGHT	66.80	0.90	60.20	6.70	-	CONCRETE CURB
21	18 OF 31	RTE 231/BROADWAY	RTE 231	102+27.17	102+44.10	LEFT	17.00	0.90	15.30	1.70	-	CONCRETE CURB
												-

STATE OF MISSOURI
DENNIS J KOSCIELSKI
NUMBER PE-2005000712
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED
7/25/2025

ROUTE	STATE
231	MO
DISTRICT	SHEET NO.
SL	3

COUNTY
ST. LOUIS

JOB NO.
J6S3631

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION	DATE

IF A SEAL IS PRESENT ON THIS SHEET, IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

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Professional Engineer 001632
www.hanson-inc.com
314.770.0467

LAYOUT	NS	01/2025
DRAWN	SMC	01/2025
REVIEWED	DJK	01/2025

SUMMARY OF QUANTITIES
SHEET 13 OF 106

REMOVAL OF IMPROVEMENTS - 1 LUMP SUM (CONT.)

SHEET NO.	PLAN SHEET NO.	ROADWAY	CENTER LINE	STATION FROM	STATION TO	LOCATION	LENGTH (FEET)	WIDTH (FEET)	AREA (SF)	AREA (SY)	EACH	DESCRIPTION OF REMOVAL
21	18 OF 31	RTE 231/BROADWAY	RTE 231	102+32.53	-	RIGHT	-	-	-	-	1	EXISTING SIGN
21	18 OF 31	RTE 231/BROADWAY	RTE 231	102+65.74	103+21.11	RIGHT	7.50	55.40	312.00	34.70	-	CONCRETE DRIVEWAY
21	18 OF 31	RTE 231/BROADWAY	RTE 231	102+69.10	103+46.94	LEFT	6.00	77.90	467.40	52.00	-	CONCRETE SIDEWALK
21	18 OF 31	RTE 231/BROADWAY	RTE 231	102+69.77	103+33.35	LEFT	63.60	0.90	57.30	6.40	-	CONCRETE CURB
21	18 OF 31	RTE 231/BROADWAY	RTE 231	103+06.17	103+17.65	RIGHT	11.50	0.90	10.40	1.20	-	CONCRETE CURB
21	18 OF 31	RTE 231/BROADWAY	RTE 231	103+17.59	103+99.43	RIGHT	81.90	0.90	73.80	8.20	-	CONCRETE CURB
21	18 OF 31	RTE 231/BROADWAY	RTE 231	103+64.31	104+16.51	LEFT	52.30	0.90	47.10	5.30	-	CONCRETE CURB
21	18 OF 31	RTE 231/BROADWAY	RTE 231	104+06.82	104+34.07	RIGHT	6.00	27.30	260.60	29.00	-	ASPHALT DRIVEWAY
21	18 OF 31	RTE 231/BROADWAY	RTE 231	104+13.56	104+33.49	LEFT	6.00	20.00	87.10	9.70	-	CONCRETE DRIVEWAY
21	18 OF 31	RTE 231/BROADWAY	RTE 231	104+29.70	104+50.00	LEFT	6.00	20.30	121.80	13.60	-	CONCRETE SIDEWALK
21	18 OF 31	RTE 231/BROADWAY	RTE 231	104+36.36	104+50.00	RIGHT	13.70	0.90	12.40	1.40	-	CONCRETE CURB
21	18 OF 31	RTE 231/BROADWAY	RTE 231	104+43.54	104+50.00	LEFT	6.50	0.90	5.90	0.70	-	CONCRETE CURB
22	19 OF 31	RTE 231/BROADWAY	RTE 231	104+50.00	105+13.21	LEFT	63.30	0.90	57.00	6.40	-	CONCRETE CURB
22	19 OF 31	RTE 231/BROADWAY	RTE 231	104+50.00	104+55.61	RIGHT	5.70	0.90	5.20	0.60	-	CONCRETE CURB
22	19 OF 31	RTE 231/BROADWAY	RTE 231	104+50.00	105+18.13	LEFT	6.00	68.20	409.20	45.50	-	CONCRETE SIDEWALK
22	19 OF 31	RTE 231/BROADWAY	RTE 231	104+55.61	104+78.43	RIGHT	7.00	22.90	110.20	12.30	-	CONCRETE DRIVEWAY
22	19 OF 31	RTE 231/BROADWAY	RTE 231	105+13.72	105+36.48	LEFT	8.50	22.80	126.10	14.10	-	CONCRETE DRIVEWAY
22	19 OF 31	RTE 231/BROADWAY	RTE 231	105+29.37	105+56.98	RIGHT	7.00	27.70	141.50	15.80	-	CONCRETE DRIVEWAY
22	19 OF 31	RTE 231/BROADWAY	RTE 231	105+34.00	106+39.08	LEFT	105.10	0.90	94.60	10.60	-	CONCRETE CURB
22	19 OF 31	RTE 231/BROADWAY	RTE 231	105+55.62	106+14.56	RIGHT	59.00	0.90	53.10	5.90	-	CONCRETE CURB
22	19 OF 31	RTE 231/BROADWAY	RTE 231	105+69.16	-	RIGHT	-	-	-	-	1	EXISTING SIGN
22	19 OF 31	RTE 231/BROADWAY	RTE 231	105+71.77	-	LEFT	-	-	-	-	1	EXISTING SIGN
22	19 OF 31	RTE 231/BROADWAY	RTE 231	105+86.01	105+90.03	LEFT	4.10	-	-	-	-	STEPS
22	19 OF 31	RTE 231/BROADWAY	RTE 231	105+94.64	-	RIGHT	-	-	-	-	1	EXISTING SIGN
22	19 OF 31	RTE 231/BROADWAY	RTE 231	105+99.35	-	LEFT	-	-	-	-	1	EXISTING SIGN
22	19 OF 31	RTE 231/BROADWAY	RTE 231	106+09.62	106+37.15	RIGHT	6.50	27.60	142.90	15.90	-	CONCRETE DRIVEWAY
22	19 OF 31	RTE 231/BROADWAY	RTE 231	106+38.90	106+64.33	LEFT	6.50	25.50	142.90	15.90	-	CONCRETE DRIVEWAY
22	19 OF 31	RTE 231/BROADWAY	RTE 231	106+44.17	106+81.20	RIGHT	6.50	37.10	196.60	21.90	-	CONCRETE DRIVEWAY
22	19 OF 31	RTE 231/BROADWAY	RTE 231	106+61.50	107+73.54	LEFT	112.10	0.90	100.90	11.30	-	CONCRETE CURB
22	19 OF 31	RTE 231/BROADWAY	RTE 231	106+76.01	107+57.58	LEFT	6.00	81.60	489.60	54.40	-	CONCRETE SIDEWALK
22	19 OF 31	RTE 231/BROADWAY	RTE 231	107+56.85	-	LEFT	-	-	-	-	1	SIGNAL POST
22	19 OF 31	RTE 231/BROADWAY	RTE 231	107+57.58	107+62.58	RIGHT	10.50	5.00	52.50	5.90	-	CONCRETE CURB RAMP
22	19 OF 31	RTE 231/BROADWAY	RTE 231	107+57.58	107+62.58	LEFT	9.50	5.00	47.50	5.30	-	CONCRETE CURB RAMP
22	19 OF 31	RTE 231/BROADWAY	RTE 231	107+63.64	-	RIGHT	-	-	-	-	1	SIGNAL POST
22	19 OF 31	RTE 231/BROADWAY	RTE 231	107+77.11	-	RIGHT	-	-	-	-	1	HANDHOLE
22	19 OF 31	RIPA	RIPA	140+48.98	140+68.74	RIGHT	6.00	19.80	118.80	13.20	-	CONCRETE SIDEWALK
22	19 OF 31	RIPA	RIPA	140+48.98	140+66.97	LEFT	6.00	18.00	108.00	12.00	-	CONCRETE SIDEWALK
22	19 OF 31	RIPA	RIPA	140+53.85	140+58.88	RIGHT	10.00	5.10	51.00	5.70	-	CONCRETE CURB RAMP
22	19 OF 31	RIPA	RIPA	140+54.46	140+59.46	LEFT	12.00	5.00	60.00	6.70	-	CONCRETE CURB RAMP
22	19 OF 31	RIPA	RIPA	140+59.94	-	RIGHT	-	-	-	-	1	SIGNAL POST
22	19 OF 31	RIPA	RIPA	140+60.81	-	LEFT	-	-	-	-	1	SIGNAL POST
												CONCRETE CURB
												-

SUMMARY OF QUANTITIES
SHEET 14 OF 106

DENNIS J KOSCIELSKI
NUMBER PE-2005000712
STATE OF MISSOURI
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED: 7/25/2025

ROUTE	STATE
231	MO
DISTRICT	SHEET NO.
SL	3

COUNTY: ST. LOUIS
JOB NO.: J6S3631
CONTRACT ID.:
PROJECT NO.:
BRIDGE NO.:

IF A SEAL IS PRESENT ON THIS SHEET, IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

DESCRIPTION	DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

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St. Louis, Missouri 63101
Professional Engineer 001632
www.hanson-inc.com
314.770.0467

LAYOUT	NS	01/2025
DRAWN	SMC	01/2025
REVIEWED	DJK	01/2025

REMOVAL OF IMPROVEMENTS - 1 LUMP SUM (CONT.)

SHEET NO.	PLAN SHEET NO.	ROADWAY	CENTER LINE	STATION FROM	STATION TO	LOCATION	LENGTH (FEET)	WIDTH (FEET)	AREA (SF)	AREA (SY)	EACH	DESCRIPTION OF REMOVAL
22	19 OF 31	RIPA	RIPA	141+21.99	141+47.00	RIGHT	25.10	0.90	22.60	2.60	-	CONCRETE CURB
22	19 OF 31	RIPA	RIPA	141+31.56	-	LEFT	-	-	-	-	1	EXISTING SIGN
22	19 OF 31	RIPA	RIPA	141+40.32	141+45.32	RIGHT	7.00	5.00	35.00	3.90	-	CONCRETE CURB RAMP
22	19 OF 31	RIPA	RIPA	141+40.71	141+45.71	LEFT	12.50	5.00	62.50	7.00	-	CONCRETE CURB RAMP
22	19 OF 31	RIPA	RIPA	141+41.75	-	LEFT	-	-	-	-	1	SIGNAL POST
22	19 OF 31	RIPA	RIPA	141+43.98	-	RIGHT	-	-	-	-	1	SIGNAL POST
22	19 OF 31	RTE 231/BROADWAY	RTE 231	108+32.99	-	LEFT	-	-	-	-	1	SIGNAL POST
22	19 OF 31	RTE 231/BROADWAY	RTE 231	108+33.00	108+39.00	RIGHT	6.00	6.00	36.00	4.00	-	CONCRETE CURB RAMP
22	19 OF 31	RTE 231/BROADWAY	RTE 231	108+34.06	108+39.06	LEFT	8.50	5.00	42.50	4.80	-	CONCRETE CURB RAMP
22	19 OF 31	RTE 231/BROADWAY	RTE 231	108+38.78	109+50.00	RIGHT	111.30	0.90	100.20	11.20	-	CONCRETE CURB
22	19 OF 31	RTE 231/BROADWAY	RTE 231	108+38.99	109+00.64	LEFT	61.70	0.90	55.60	6.20	-	CONCRETE CURB
22	19 OF 31	RTE 231/BROADWAY	RTE 231	108+39.00	109+50.00	RIGHT	6.00	111.00	666.00	74.00	-	CONCRETE SIDEWALK
22	19 OF 31	RTE 231/BROADWAY	RTE 231	108+39.06	109+02.83	LEFT	6.00	63.80	382.80	42.60	-	CONCRETE SIDEWALK
22	19 OF 31	RTE 231/BROADWAY	RTE 231	108+58.83	-	RIGHT	-	-	-	-	1	CONTROLLER CABINET
22	19 OF 31	RTE 231/BROADWAY	RTE 231	108+98.92	109+20.49	RIGHT	7.00	21.60	99.70	11.10	-	ASPHALT DRIVEWAY
22	19 OF 31	RTE 231/BROADWAY	RTE 231	109+09.02	-	RIGHT	-	-	-	-	1	EXISTING SIGN
23	20 OF 31	RTE 231/BROADWAY	RTE 231	109+50.00	109+58.21	RIGHT	6.00	8.30	49.80	5.60	-	CONCRETE SIDEWALK
23	20 OF 31	RTE 231/BROADWAY	RTE 231	109+50.00	109+63.12	RIGHT	13.20	0.90	11.90	1.40	-	CONCRETE CURB
23	20 OF 31	RTE 231/BROADWAY	RTE 231	109+58.14	109+64.77	RIGHT	6.00	6.70	40.20	4.50	-	CONCRETE CURB RAMP
23	20 OF 31	RTE 231/BROADWAY	RTE 231	109+60.93	110+03.25	RIGHT	7.00	42.40	234.80	26.10	-	ASPHALT DRIVEWAY
23	20 OF 31	RTE 231/BROADWAY	RTE 231	109+99.40	110+06.04	RIGHT	6.00	6.70	40.20	4.50	-	CONCRETE CURB RAMP
23	20 OF 31	RTE 231/BROADWAY	RTE 231	109+99.70	110+30.38	LEFT	7.00	30.70	158.20	17.60	-	ASPHALT DRIVEWAY
23	20 OF 31	RTE 231/BROADWAY	RTE 231	110+01.14	112+12.70	RIGHT	211.60	0.90	190.50	21.20	-	CONCRETE CURB
23	20 OF 31	RTE 231/BROADWAY	RTE 231	110+06.04	112+13.95	RIGHT	6.00	208.00	1,248.00	138.70	-	CONCRETE SIDEWALK
23	20 OF 31	RTE 231/BROADWAY	RTE 231	110+62.04	110+96.42	LEFT	7.00	34.40	180.60	20.10	-	ASPHALT DRIVEWAY
23	20 OF 31	RTE 231/BROADWAY	RTE 231	110+92.03	111+87.02	LEFT	6.00	95.00	570.00	63.40	-	CONCRETE SIDEWALK
23	20 OF 31	RTE 231/BROADWAY	RTE 231	111+09.96	111+83.41	LEFT	73.50	0.90	66.20	7.40	-	CONCRETE CURB
23	20 OF 31	RTE 231/BROADWAY	RTE 231	111+83.59	112+06.34	LEFT	6.50	22.80	113.30	12.60	-	ASPHALT DRIVEWAY
23	20 OF 31	RTE 231/BROADWAY	RTE 231	112+10.54	112+64.62	RIGHT	9.00	54.10	423.50	47.10	-	ASPHALT DRIVEWAY
23	20 OF 31	RTE 231/BROADWAY	RTE 231	112+22.70	-	LEFT	-	-	-	-	1	EXISTING SIGN
23	20 OF 31	RTE 231/BROADWAY	RTE 231	112+50.94	112+58.88	LEFT	6.00	8.00	48.00	5.40	-	CONCRETE CURB RAMP
23	20 OF 31	RTE 231/BROADWAY	RTE 231	112+53.72	113+26.04	LEFT	7.00	72.40	451.50	50.20	-	ASPHALT DRIVEWAY
23	20 OF 31	RTE 231/BROADWAY	RTE 231	112+59.39	113+86.41	RIGHT	127.10	0.90	114.40	12.80	-	CONCRETE CURB
23	20 OF 31	RTE 231/BROADWAY	RTE 231	112+60.21	113+91.50	RIGHT	6.00	131.30	787.80	87.60	-	CONCRETE SIDEWALK
23	20 OF 31	RTE 231/BROADWAY	RTE 231	112+61.69	-	RIGHT	-	-	-	-	1	LIGHT POLE
23	20 OF 31	RTE 231/BROADWAY	RTE 231	113+21.50	113+26.50	LEFT	5.00	5.00	25.00	2.80	-	CONCRETE CURB RAMP
23	20 OF 31	RTE 231/BROADWAY	RTE 231	113+22.85	-	RIGHT	-	-	-	-	1	EXISTING SIGN
23	20 OF 31	VIEHL	VIEHL	145+62.69	145+69.65	LEFT	7.00	-	-	-	-	FENCE
23	20 OF 31	VIEHL	VIEHL	145+63.80	145+68.80	LEFT	5.00	5.00	25.00	2.80	-	CONCRETE CURB RAMP
23	20 OF 31	VIEHL	VIEHL	145+66.25	-	RIGHT	-	-	-	-	2	EXISTING SIGN
23	20 OF 31	RTE 231/BROADWAY	RTE 231	113+56.14	113+81.57	RIGHT	-	-	-	-	3	TREE
23	20 OF 31	RTE 231/BROADWAY	RTE 231	113+83.73	114+51.20	LEFT	67.50	-	-	-	-	FENCE
												-

SUMMARY OF QUANTITIES
SHEET 15 OF 106

LAYOUT	NS	01/2025
DRAWN	SMC	01/2025
REVIEWED	DJK	01/2025

STATE OF MISSOURI
DENNIS J KOSCIELSKI
NUMBER PE-2005000712
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED
7/25/2025

ROUTE	STATE
231	MO
DISTRICT	SHEET NO.
SL	3

COUNTY
ST. LOUIS

JOB NO.
J6S3631

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION	DATE

IF A SEAL IS PRESENT ON THIS SHEET, IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

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REMOVAL OF IMPROVEMENTS - 1 LUMP SUM (CONT.)

SHEET NO.	PLAN SHEET NO.	ROADWAY	CENTER LINE	STATION FROM	STATION TO	LOCATION	LENGTH (FEET)	WIDTH (FEET)	AREA (SF)	AREA (SY)	EACH	DESCRIPTION OF REMOVAL
23	20 OF 31	RTE 231/BROADWAY	RTE 231	113+86.29	114+37.83	RIGHT	7.00	51.60	451.50	50.20	-	ASPHALT DRIVEWAY
23	20 OF 31	RTE 231/BROADWAY	RTE 231	114+09.34	114+29.98	LEFT	7.00	20.70	88.60	9.90	-	CONCRETE DRIVEWAY
23	20 OF 31	RTE 231/BROADWAY	RTE 231	114+24.76	114+55.89	RIGHT	6.00	31.20	187.20	20.80	-	CONCRETE SIDEWALK
23	20 OF 31	RTE 231/BROADWAY	RTE 231	114+29.98	114+53.99	LEFT	24.10	0.90	21.70	2.50	-	CONCRETE CURB
24	21 OF 31	RTE 231/BROADWAY	RTE 231	114+52.45	114+78.89	LEFT	7.00	26.50	140.90	15.70	-	AGGREGATE DRIVEWAY
24	21 OF 31	RTE 231/BROADWAY	RTE 231	114+57.30	115+06.37	RIGHT	7.00	49.10	326.70	36.30	-	ASPHALT DRIVEWAY
24	21 OF 31	RTE 231/BROADWAY	RTE 231	114+75.44	115+40.67	LEFT	6.00	65.30	391.80	43.60	-	CONCRETE SIDEWALK
24	21 OF 31	RTE 231/BROADWAY	RTE 231	114+80.28	-	LEFT	-	-	-	-	1	EXISTING SIGN
24	21 OF 31	RTE 231/BROADWAY	RTE 231	115+04.23	115+34.98	RIGHT	30.80	0.90	27.80	3.10	-	CONCRETE CURB
24	21 OF 31	RTE 231/BROADWAY	RTE 231	115+05.64	115+34.49	RIGHT	6.00	28.90	173.40	19.30	-	CONCRETE SIDEWALK
24	21 OF 31	RTE 231/BROADWAY	RTE 231	115+08.26	-	RIGHT	-	-	-	-	1	EXISTING SIGN
24	21 OF 31	RTE 231/BROADWAY	RTE 231	115+32.96	115+70.79	RIGHT	7.00	37.90	227.90	25.40	-	ASPHALT DRIVEWAY
24	21 OF 31	RTE 231/BROADWAY	RTE 231	115+37.29	115+58.74	LEFT	7.00	21.50	108.00	12.00	-	CONCRETE DRIVEWAY
24	21 OF 31	RTE 231/BROADWAY	RTE 231	115+58.64	116+39.49	LEFT	80.90	0.90	72.90	8.10	-	CONCRETE CURB
24	21 OF 31	RTE 231/BROADWAY	RTE 231	115+70.17	-	RIGHT	-	-	-	-	1	EXISTING SIGN
24	21 OF 31	RTE 231/BROADWAY	RTE 231	116+09.78	116+21.51	RIGHT	6.00	11.80	70.80	7.90	-	CONCRETE CURB RAMP
24	21 OF 31	RTE 231/BROADWAY	RTE 231	116+39.70	116+47.29	LEFT	7.50	7.60	57.00	6.40	-	CONCRETE CURB RAMP
24	21 OF 31	E ARLEE	E ARLEE	150+25.85	-	RIGHT	-	-	-	-	1	EXISTING SIGN
24	21 OF 31	W ARLEE	W ARLEE	155+65.38	-	RIGHT	-	-	-	-	1	EXISTING SIGN
24	21 OF 31	W ARLEE	W ARLEE	155+70.13	-	LEFT	-	-	-	-	1	EXISTING SIGN
24	21 OF 31	RTE 231/BROADWAY	RTE 231	116+45.09	116+54.59	RIGHT	6.00	9.50	57.00	6.40	-	CONCRETE CURB RAMP
24	21 OF 31	RTE 231/BROADWAY	RTE 231	116+46.32	-	RIGHT	-	-	-	-	1	EXISTING SIGN
24	21 OF 31	RTE 231/BROADWAY	RTE 231	116+54.59	117+40.22	RIGHT	6.00	85.70	514.20	57.20	-	CONCRETE SIDEWALK
24	21 OF 31	RTE 231/BROADWAY	RTE 231	116+74.27	116+80.79	LEFT	5.00	6.60	33.00	3.70	-	CONCRETE CURB RAMP
24	21 OF 31	RTE 231/BROADWAY	RTE 231	116+86.72	116+98.82	LEFT	-	-	-	-	3	SHRUBS
24	21 OF 31	RTE 231/BROADWAY	RTE 231	117+14.31	-	LEFT	-	-	-	-	1	EXISTING SIGN
24	21 OF 31	RTE 231/BROADWAY	RTE 231	117+35.39	117+73.84	RIGHT	7.00	38.50	222.00	24.70	-	ASPHALT DRIVEWAY
24	21 OF 31	RTE 231/BROADWAY	RTE 231	117+45.30	-	LEFT	-	-	-	-	1	EXISTING SIGN
24	21 OF 31	RTE 231/BROADWAY	RTE 231	117+45.97	117+60.03	LEFT	6.00	14.10	58.20	6.50	-	CONCRETE DRIVEWAY
24	21 OF 31	RTE 231/BROADWAY	RTE 231	117+57.26	119+18.47	LEFT	161.30	0.90	145.20	16.20	-	CONCRETE CURB
24	21 OF 31	RTE 231/BROADWAY	RTE 231	117+57.60	119+34.25	LEFT	6.00	176.70	1,060.20	117.80	-	CONCRETE SIDEWALK
24	21 OF 31	RTE 231/BROADWAY	RTE 231	117+84.15	118+20.32	RIGHT	7.00	36.20	203.50	22.70	-	CONCRETE DRIVEWAY
24	21 OF 31	RTE 231/BROADWAY	RTE 231	118+21.68	118+79.83	RIGHT	58.20	0.90	52.40	5.90	-	CONCRETE CURB
24	21 OF 31	RTE 231/BROADWAY	RTE 231	118+36.19	118+84.27	RIGHT	48.10	-	-	-	-	FENCE
24	21 OF 31	E FELTON	E FELTON	160+37.97	160+50.78	RIGHT	12.90	-	-	-	-	FENCE
24	21 OF 31	RTE 231/BROADWAY	RTE 231	118+52.04	-	LEFT	-	-	-	-	1	WATER VALVE
24	21 OF 31	RTE 231/BROADWAY	RTE 231	118+78.16	118+89.29	RIGHT	6.00	11.20	67.20	7.50	-	CONCRETE CURB RAMP
24	21 OF 31	RTE 231/BROADWAY	RTE 231	118+87.19	-	LEFT	-	-	-	-	1	WATER VALVE
24	21 OF 31	RTE 231/BROADWAY	RTE 231	118+92.67	-	LEFT	-	-	-	-	1	WATER VALVE
24	21 OF 31	RTE 231/BROADWAY	RTE 231	119+26.74	-	LEFT	-	-	-	-	1	WATER VALVE
24	21 OF 31	RTE 231/BROADWAY	RTE 231	119+28.68	119+60.36	RIGHT	31.70	0.90	28.60	3.20	-	CONCRETE CURB
24	21 OF 31	RTE 231/BROADWAY	RTE 231	119+33.23	-	RIGHT	-	-	-	-	2	EXISTING SIGN
												-

SUMMARY OF QUANTITIES
SHEET 16 OF 106

STATE OF MISSOURI
DENNIS J KOSCIELSKI
NUMBER PE-2005000712
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED
7/25/2025

ROUTE	STATE
231	MO
DISTRICT	SHEET NO.
SL	3

COUNTY
ST. LOUIS

JOB NO.
J6S3631

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION	DATE

IF A SEAL IS PRESENT ON THIS SHEET, IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

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LAYOUT	NS	01/2025
DRAWN	SMC	01/2025
REVIEWED	DJK	01/2025

REMOVAL OF IMPROVEMENTS - 1 LUMP SUM (CONT.)

SHEET NO.	PLAN SHEET NO.	ROADWAY	CENTER LINE	STATION FROM	STATION TO	LOCATION	LENGTH (FEET)	WIDTH (FEET)	AREA (SF)	AREA (SY)	EACH	DESCRIPTION OF REMOVAL
24	21 OF 31	RTE 231/BROADWAY	RTE 231	119+34.25	119+41.49	RIGHT	5.00	7.30	36.50	4.10	-	CONCRETE CURB RAMP
24	21 OF 31	RTE 231/BROADWAY	RTE 231	119+37.40	119+59.21	LEFT	6.00	21.90	131.40	14.60	-	CONCRETE SIDEWALK
24	21 OF 31	W FELTON	W FELTON	165+64.34	-	RIGHT	-	-	-	-	1	EXISTING SIGN
24	21 OF 31	W FELTON	W FELTON	165+69.20	-	LEFT	-	-	-	-	1	EXISTING SIGN
24	21 OF 31	RTE 231/BROADWAY	RTE 231	119+51.76	-	RIGHT	-	-	-	-	1	EXISTING SIGN
24	21 OF 31	RTE 231/BROADWAY	RTE 231	119+55.45	119+96.85	RIGHT	7.00	41.40	242.00	26.90	-	ASPHALT DRIVEWAY
24	21 OF 31	RTE 231/BROADWAY	RTE 231	119+70.03	119+81.78	LEFT	6.00	11.80	70.80	7.90	-	CONCRETE CURB RAMP
24	21 OF 31	RTE 231/BROADWAY	RTE 231	119+81.78	119+92.00	LEFT	10.30	0.90	9.30	1.10	-	CONCRETE CURB
24	21 OF 31	RTE 231/BROADWAY	RTE 231	119+81.78	119+92.00	LEFT	6.00	10.30	61.80	6.90	-	CONCRETE SIDEWALK
25	22 OF 31	RTE 231/BROADWAY	RTE 231	119+92.00	121+92.06	LEFT	200.10	0.90	180.10	20.10	-	CONCRETE CURB
25	22 OF 31	RTE 231/BROADWAY	RTE 231	119+92.00	121+93.97	LEFT	6.00	202.00	1,212.00	134.70	-	CONCRETE SIDEWALK
25	22 OF 31	RTE 231/BROADWAY	RTE 231	119+99.40	120+66.41	RIGHT	6.00	67.10	402.60	44.80	-	CONCRETE SIDEWALK
25	22 OF 31	RTE 231/BROADWAY	RTE 231	120+10.73	-	LEFT	-	-	-	-	1	EXISTING SIGN
25	22 OF 31	RTE 231/BROADWAY	RTE 231	120+62.49	120+82.19	RIGHT	7.00	19.70	92.00	10.30	-	CONCRETE DRIVEWAY
25	22 OF 31	RTE 231/BROADWAY	RTE 231	120+93.50	121+12.61	RIGHT	7.00	19.20	88.20	9.80	-	ASPHALT DRIVEWAY
25	22 OF 31	RTE 231/BROADWAY	RTE 231	121+27.96	121+47.94	RIGHT	7.00	20.00	88.20	9.80	-	ASPHALT DRIVEWAY
25	22 OF 31	RTE 231/BROADWAY	RTE 231	121+71.55	121+83.34	RIGHT	6.00	11.80	70.80	7.90	-	CONCRETE CURB RAMP
25	22 OF 31	RTE 231/BROADWAY	RTE 231	121+71.72	-	RIGHT	-	-	-	-	1	EXISTING SIGN
25	22 OF 31	RTE 231/BROADWAY	RTE 231	121+90.03	122+10.08	LEFT	8.00	20.10	101.50	11.30	-	ASPHALT DRIVEWAY
25	22 OF 31	RTE 231/BROADWAY	RTE 231	122+11.76	122+23.50	RIGHT	6.00	11.80	70.80	7.90	-	CONCRETE CURB RAMP
25	22 OF 31	RTE 231/BROADWAY	RTE 231	122+13.04	-	RIGHT	-	-	-	-	1	EXISTING SIGN
25	22 OF 31	W LORETTA	W LORETTA	175+59.90	175+64.90	RIGHT	8.00	5.00	40.00	4.50	-	CONCRETE CURB RAMP
25	22 OF 31	W LORETTA	W LORETTA	175+59.90	175+64.90	LEFT	6.00	5.00	30.00	3.40	-	CONCRETE CURB RAMP
25	22 OF 31	W LORETTA	W LORETTA	175+66.72	-	RIGHT	-	-	-	-	1	EXISTING SIGN
25	22 OF 31	RTE 231/BROADWAY	RTE 231	122+31.16	122+63.16	RIGHT	6.50	32.00	205.10	22.80	-	ASPHALT DRIVEWAY
25	22 OF 31	RTE 231/BROADWAY	RTE 231	122+65.50	122+82.45	RIGHT	7.00	17.00	78.10	8.70	-	CONCRETE DRIVEWAY
25	22 OF 31	RTE 231/BROADWAY	RTE 231	122+70.61	124+55.21	LEFT	184.60	0.90	166.20	18.50	-	CONCRETE CURB
25	22 OF 31	RTE 231/BROADWAY	RTE 231	122+78.55	124+48.53	RIGHT	6.00	170.00	1,020.00	113.40	-	CONCRETE SIDEWALK
25	22 OF 31	RTE 231/BROADWAY	RTE 231	122+80.36	124+58.70	RIGHT	178.40	0.90	160.60	17.90	-	CONCRETE CURB
25	22 OF 31	RTE 231/BROADWAY	RTE 231	122+80.41	124+57.96	LEFT	6.00	177.60	1,065.60	118.40	-	CONCRETE SIDEWALK
25	22 OF 31	RTE 231/BROADWAY	RTE 231	123+54.37	123+63.87	RIGHT	9.50	-	-	-	-	CONCRETE BLOCKS
25	22 OF 31	RTE 231/BROADWAY	RTE 231	124+25.90	124+39.83	RIGHT	14.00	-	-	-	-	RAMP AND HAND RAILING
25	22 OF 31	RTE 231/BROADWAY	RTE 231	124+37.53	-	RIGHT	-	-	-	-	1	EXISTING SIGN
25	22 OF 31	RTE 231/BROADWAY	RTE 231	124+48.53	124+65.75	RIGHT	6.00	17.30	103.80	11.60	-	CONCRETE CURB RAMP
25	22 OF 31	RTE 231/BROADWAY	RTE 231	124+55.16	124+90.90	LEFT	7.00	35.80	214.10	23.80	-	CONCRETE DRIVEWAY
25	22 OF 31	E HOLDEN	E HOLDEN	180+31.22	180+36.22	LEFT	6.00	5.00	30.00	3.40	-	CONCRETE CURB RAMP
25	22 OF 31	E HOLDEN	E HOLDEN	180+33.94	-	LEFT	-	-	-	-	1	EXISTING SIGN
25	22 OF 31	RTE 231/BROADWAY	RTE 231	124+88.04	125+00.00	LEFT	12.00	0.90	10.80	1.20	-	CONCRETE CURB
25	22 OF 31	RTE 231/BROADWAY	RTE 231	124+88.11	125+00.00	LEFT	6.00	11.90	71.40	8.00	-	CONCRETE SIDEWALK
25	22 OF 31	RTE 231/BROADWAY	RTE 231	124+90.51	-	LEFT	-	-	-	-	1	EXISTING SIGN
25	22 OF 31	RTE 231/BROADWAY	RTE 231	124+99.09	-	RIGHT	-	-	-	-	1	EXISTING SIGN
26	23 OF 31	RTE 231/BROADWAY	RTE 231	125+00.00	125+23.94	LEFT	6.00	24.00	144.00	16.00	-	CONCRETE SIDEWALK
												-

SUMMARY OF QUANTITIES
SHEET 17 OF 106

STATE OF MISSOURI
DENNIS J KOSCIELSKI
NUMBER PE-2005000712
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED 7/25/2025
ROUTE 231 | STATE MO
DISTRICT SL | SHEET NO. 3
COUNTY ST. LOUIS
JOB NO. J6S3631
CONTRACT ID.
PROJECT NO.
BRIDGE NO.

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

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LAYOUT	NS	01/2025
DRAWN	SMC	01/2025
REVIEWED	DJK	01/2025

REMOVAL OF IMPROVEMENTS - 1 LUMP SUM (CONT.)

SHEET NO.	PLAN SHEET NO.	ROADWAY	CENTER LINE	STATION FROM	STATION TO	LOCATION	LENGTH (FEET)	WIDTH (FEET)	AREA (SF)	AREA (SY)	EACH	DESCRIPTION OF REMOVAL
26	23 OF 31	RTE 231/BROADWAY	RTE 231	125+00.00	125+26.27	LEFT	26.30	0.90	23.70	2.70	-	CONCRETE CURB
26	23 OF 31	RTE 231/BROADWAY	RTE 231	125+06.53	-	LEFT	-	-	-	-	1	MAIL BOX
26	23 OF 31	RTE 231/BROADWAY	RTE 231	125+21.21	-	RIGHT	-	-	-	-	1	EXISTING SIGN
26	23 OF 31	RTE 231/BROADWAY	RTE 231	125+23.94	125+31.44	LEFT	6.00	7.50	45.00	5.00	-	CONCRETE CURB RAMP
26	23 OF 31	RTE 231/BROADWAY	RTE 231	125+25.60	125+58.52	RIGHT	7.00	33.00	179.30	20.00	-	CONCRETE DRIVEWAY
26	23 OF 31	W HOLDEN	W HOLDEN	185+69.37	-	RIGHT	-	-	-	-	1	EXISTING SIGN
26	23 OF 31	RTE 231/BROADWAY	RTE 231	125+54.06	126+14.10	RIGHT	60.10	0.90	54.10	6.10	-	CONCRETE CURB
26	23 OF 31	RTE 231/BROADWAY	RTE 231	125+59.18	125+65.18	LEFT	6.00	6.00	36.00	4.00	-	CONCRETE CURB RAMP
26	23 OF 31	RTE 231/BROADWAY	RTE 231	125+66.75	-	RIGHT	-	-	-	-	1	EXISTING SIGN
26	23 OF 31	RTE 231/BROADWAY	RTE 231	125+79.64	-	LEFT	-	-	-	-	1	EXISTING SIGN
26	23 OF 31	RTE 231/BROADWAY	RTE 231	125+99.49	-	RIGHT	-	-	-	-	1	EXISTING SIGN
26	23 OF 31	RTE 231/BROADWAY	RTE 231	125+99.95	126+31.31	LEFT	7.00	31.40	184.20	20.50	-	ASPHALT DRIVEWAY
26	23 OF 31	RTE 231/BROADWAY	RTE 231	126+10.13	126+39.14	RIGHT	7.00	29.10	153.40	17.10	-	ASPHALT DRIVEWAY
26	23 OF 31	RTE 231/BROADWAY	RTE 231	126+28.52	128+22.11	LEFT	6.00	193.60	1,161.60	129.10	-	CONCRETE SIDEWALK
26	23 OF 31	RTE 231/BROADWAY	RTE 231	126+30.42	128+27.44	LEFT	197.10	0.90	177.40	19.80	-	CONCRETE CURB
26	23 OF 31	RTE 231/BROADWAY	RTE 231	126+34.62	127+33.68	RIGHT	99.10	0.90	89.20	10.00	-	CONCRETE CURB
26	23 OF 31	RTE 231/BROADWAY	RTE 231	126+34.94	127+34.16	RIGHT	6.00	99.30	595.80	66.20	-	CONCRETE SIDEWALK
26	23 OF 31	RTE 231/BROADWAY	RTE 231	126+36.75	-	LEFT	-	-	-	-	1	EXISTING SIGN
26	23 OF 31	RTE 231/BROADWAY	RTE 231	127+06.92	-	RIGHT	-	-	-	-	1	EXISTING SIGN
26	23 OF 31	RTE 231/BROADWAY	RTE 231	127+11.94	-	LEFT	-	-	-	-	1	EXISTING SIGN
26	23 OF 31	RTE 231/BROADWAY	RTE 231	127+22.38	-	RIGHT	-	-	-	-	1	EXISTING SIGN
26	23 OF 31	RTE 231/BROADWAY	RTE 231	127+34.15	127+42.99	RIGHT	6.00	8.90	53.40	6.00	-	CONCRETE CURB RAMP
26	23 OF 31	E VELMA	E VELMA	190+32.13	-	LEFT	-	-	-	-	1	EXISTING SIGN
26	23 OF 31	RTE 231/BROADWAY	RTE 231	127+62.79	-	LEFT	-	-	-	-	1	EXISTING SIGN
26	23 OF 31	RTE 231/BROADWAY	RTE 231	127+66.45	127+75.28	RIGHT	6.00	8.90	53.40	6.00	-	CONCRETE CURB RAMP
26	23 OF 31	RTE 231/BROADWAY	RTE 231	127+67.72	129+02.44	RIGHT	134.80	0.90	121.40	13.50	-	CONCRETE CURB
26	23 OF 31	RTE 231/BROADWAY	RTE 231	127+75.29	128+95.44	RIGHT	6.00	120.20	721.20	80.20	-	CONCRETE SIDEWALK
26	23 OF 31	RTE 231/BROADWAY	RTE 231	128+21.18	-	RIGHT	-	-	-	-	1	EXISTING SIGN
26	23 OF 31	RTE 231/BROADWAY	RTE 231	128+22.11	128+30.94	LEFT	6.00	8.90	53.40	6.00	-	CONCRETE CURB RAMP
26	23 OF 31	W VELMA	W VELMA	195+68.91	-	RIGHT	-	-	-	-	1	EXISTING SIGN
26	23 OF 31	W VELMA	W VELMA	195+69.48	-	RIGHT	-	-	-	-	1	EXISTING SIGN
26	23 OF 31	RTE 231/BROADWAY	RTE 231	128+55.08	128+62.57	LEFT	6.00	7.50	45.00	5.00	-	CONCRETE CURB RAMP
26	23 OF 31	RTE 231/BROADWAY	RTE 231	128+61.84	-	LEFT	-	-	-	-	1	EXISTING SIGN
26	23 OF 31	RTE 231/BROADWAY	RTE 231	128+62.56	128+94.34	RIGHT	6.00	31.80	190.80	21.20	-	CONCRETE SIDEWALK
26	23 OF 31	RTE 231/BROADWAY	RTE 231	128+66.97	-	LEFT	-	-	-	-	1	LIGHT POLE
26	23 OF 31	RTE 231/BROADWAY	RTE 231	128+91.71	129+37.60	LEFT	7.00	45.90	291.90	32.50	-	ASPHALT DRIVEWAY
26	23 OF 31	RTE 231/BROADWAY	RTE 231	129+01.69	129+43.47	RIGHT	7.00	41.80	255.20	28.40	-	CONCRETE DRIVEWAY
26	23 OF 31	RTE 231/BROADWAY	RTE 231	129+33.87	129+62.17	LEFT	28.30	0.90	25.50	2.90	-	CONCRETE CURB
26	23 OF 31	RTE 231/BROADWAY	RTE 231	129+43.45	130+03.16	RIGHT	6.50	59.80	369.40	41.10	-	CONCRETE DRIVEWAY
26	23 OF 31	RTE 231/BROADWAY	RTE 231	129+47.74	-	RIGHT	-	-	-	-	1	EXISTING SIGN
26	23 OF 31	RTE 231/BROADWAY	RTE 231	129+59.34	129+90.13	LEFT	7.00	30.80	181.70	20.20	-	ASPHALT DRIVEWAY
27	24 OF 31	RTE 231/BROADWAY	RTE 231	129+87.16	130+34.15	LEFT	47.00	0.90	42.30	4.70	-	CONCRETE CURB
												-

LAYOUT	NS	01/2025
DRAWN	SMC	01/2025
REVIEWED	DJK	01/2025

STATE OF MISSOURI
DENNIS J KOSCIELSKI
NUMBER PE-2005000712
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED
7/25/2025

ROUTE	STATE
231	MO
DISTRICT	SHEET NO.
SL	3

COUNTY
ST. LOUIS

JOB NO.
J6S3631

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION	DATE

IF A SEAL IS PRESENT ON THIS SHEET, IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

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314.770.0467

SUMMARY OF QUANTITIES
SHEET 18 OF 106

REMOVAL OF IMPROVEMENTS - 1 LUMP SUM (CONT.)

SHEET NO	PLAN SHEET NO.	ROADWAY	CENTER LINE	STATION FROM	STATION TO	LOCATION	LENGTH (FEET)	WIDTH (FEET)	AREA (SF)	AREA (SY)	EACH	DESCRIPTION OF REMOVAL
27	24 OF 31	RTE 231/BROADWAY	RTE 231	129+87.29	130+34.22	LEFT	6.00	47.00	282.00	31.40	-	CONCRETE SIDEWALK
27	24 OF 31	RTE 231/BROADWAY	RTE 231	129+99.78	130+26.89	RIGHT	27.20	0.90	24.50	2.80	-	CONCRETE CURB
27	24 OF 31	RTE 231/BROADWAY	RTE 231	130+07.34	130+30.31	RIGHT	23.00	0.90	20.70	2.30	-	CONCRETE CURB
27	24 OF 31	RTE 231/BROADWAY	RTE 231	130+31.55	130+73.17	LEFT	7.00	41.70	258.50	28.80	-	ASPHALT DRIVEWAY
27	24 OF 31	RTE 231/BROADWAY	RTE 231	130+73.07	-	LEFT	-	-	-	-	1	FIRE HYDRANT
27	24 OF 31	RTE 231/BROADWAY	RTE 231	130+75.67	-	RIGHT	-	-	-	-	1	EXISTING SIGN
27	24 OF 31	RTE 231/BROADWAY	RTE 231	130+80.36	130+89.36	RIGHT	6.00	9.00	54.00	6.00	-	CONCRETE CURB RAMP
27	24 OF 31	RTE 231/BROADWAY	RTE 231	130+80.96	-	LEFT	-	-	-	-	1	EXISTING SIGN
27	24 OF 31	RTE 231/BROADWAY	RTE 231	131+02.98	-	LEFT	-	-	-	-	1	EXISTING SIGN
27	24 OF 31	RTE 231/BROADWAY	RTE 231	131+11.00	131+21.14	LEFT	6.00	10.20	61.20	6.80	-	CONCRETE CURB RAMP
27	24 OF 31	W ETTA	W ETTA	205+63.66	-	LEFT	-	-	-	-	1	EXISTING SIGN
27	24 OF 31	W ETTA	W ETTA	205+63.66	-	RIGHT	-	-	-	-	1	EXISTING SIGN
27	24 OF 31	RTE 231/BROADWAY	RTE 231	131+35.93	131+51.97	RIGHT	7.50	16.10	85.10	9.50	-	CONCRETE DRIVEWAY
27	24 OF 31	RTE 231/BROADWAY	RTE 231	131+49.29	131+55.95	LEFT	5.00	6.70	33.50	3.80	-	CONCRETE CURB RAMP
27	24 OF 31	RTE 231/BROADWAY	RTE 231	131+49.34	132+13.91	RIGHT	6.00	64.60	387.60	43.10	-	CONCRETE SIDEWALK
27	24 OF 31	RTE 231/BROADWAY	RTE 231	131+53.53	134+04.17	LEFT	250.70	0.90	225.70	25.10	-	CONCRETE CURB
27	24 OF 31	RTE 231/BROADWAY	RTE 231	131+55.95	134+04.42	LEFT	6.00	248.50	1,491.00	165.70	-	CONCRETE SIDEWALK
27	24 OF 31	RTE 231/BROADWAY	RTE 231	132+10.89	132+29.25	RIGHT	6.00	18.40	83.60	9.30	-	ASPHALT DRIVEWAY
27	24 OF 31	RTE 231/BROADWAY	RTE 231	132+30.47	133+01.99	RIGHT	71.60	0.90	64.50	7.20	-	CONCRETE CURB
27	24 OF 31	RTE 231/BROADWAY	RTE 231	133+01.03	133+12.78	RIGHT	6.00	11.80	70.80	7.90	-	CONCRETE CURB RAMP
27	24 OF 31	E CARTWRIGHT	E CARTWRIGHT	210+32.71	-	LEFT	-	-	-	-	1	EXISTING SIGN
27	24 OF 31	RTE 231/BROADWAY	RTE 231	133+44.29	133+54.69	RIGHT	6.00	10.40	62.40	7.00	-	CONCRETE CURB RAMP
27	24 OF 31	RTE 231/BROADWAY	RTE 231	133+75.63	133+92.61	RIGHT	6.00	17.00	83.60	9.30	-	ASPHALT DRIVEWAY
27	24 OF 31	RTE 231/BROADWAY	RTE 231	134+01.20	-	RIGHT	-	-	-	-	1	EXISTING SIGN
27	24 OF 31	RTE 231/BROADWAY	RTE 231	134+04.42	134+16.66	LEFT	6.00	12.30	73.80	8.20	-	CONCRETE CURB RAMP
27	24 OF 31	RTE 231/BROADWAY	RTE 231	134+09.26	134+23.06	RIGHT	6.50	13.80	56.20	6.30	-	CONCRETE DRIVEWAY
27	24 OF 31	W CARTWRIGHT	W CARTWRIGHT	215+63.09	-	RIGHT	-	-	-	-	2	EXISTING SIGN
27	24 OF 31	RTE 231/BROADWAY	RTE 231	134+19.93	135+00.00	RIGHT	6.00	80.10	480.60	53.40	-	CONCRETE SIDEWALK
27	24 OF 31	RTE 231/BROADWAY	RTE 231	134+32.02	135+00.00	RIGHT	68.00	0.90	61.20	6.80	-	CONCRETE CURB
27	24 OF 31	RTE 231/BROADWAY	RTE 231	134+32.32	-	RIGHT	-	-	-	-	1	EXISTING SIGN
27	24 OF 31	RTE 231/BROADWAY	RTE 231	134+47.30	134+59.04	LEFT	6.00	11.80	70.80	7.90	-	CONCRETE CURB RAMP
27	24 OF 31	RTE 231/BROADWAY	RTE 231	134+56.71	135+00.00	LEFT	43.30	0.90	39.00	4.40	-	CONCRETE CURB
27	24 OF 31	RTE 231/BROADWAY	RTE 231	134+59.04	135+00.00	LEFT	6.00	41.00	246.00	27.40	-	CONCRETE SIDEWALK
27	24 OF 31	RTE 231/BROADWAY	RTE 231	134+75.81	-	RIGHT	-	-	-	-	1	EXISTING SIGN
28	25 OF 31	RTE 231/BROADWAY	RTE 231	135+00.00	135+35.44	RIGHT	6.00	35.50	213.00	23.70	-	CONCRETE SIDEWALK
28	25 OF 31	RTE 231/BROADWAY	RTE 231	135+00.00	135+43.10	RIGHT	43.10	0.90	38.80	4.40	-	CONCRETE CURB
28	25 OF 31	RTE 231/BROADWAY	RTE 231	135+00.00	137+00.83	LEFT	6.00	200.90	1,205.40	134.00	-	CONCRETE SIDEWALK
28	25 OF 31	RTE 231/BROADWAY	RTE 231	135+00.00	136+38.17	LEFT	138.20	0.90	124.40	13.90	-	CONCRETE CURB
28	25 OF 31	RTE 231/BROADWAY	RTE 231	135+24.40	-	RIGHT	-	-	-	-	1	SHRUBS
28	25 OF 31	RTE 231/BROADWAY	RTE 231	135+25.30	-	RIGHT	-	-	-	-	1	EXISTING SIGN
28	25 OF 31	RTE 231/BROADWAY	RTE 231	135+35.44	135+53.32	RIGHT	6.00	17.90	107.40	12.00	-	CONCRETE CURB RAMP
28	25 OF 31	RTE 231/BROADWAY	RTE 231	135+47.74	-	RIGHT	-	-	-	-	1	EXISTING SIGN
												-

SUMMARY OF QUANTITIES
SHEET 19 OF 106

STATE OF MISSOURI
DENNIS J KOSCIELSKI
NUMBER PE-2005000712
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED
7/25/2025

ROUTE	STATE
231	MO
DISTRICT	SHEET NO.
SL	3

COUNTY
ST. LOUIS

JOB NO.
J6S3631

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DATE	DESCRIPTION

IF A SEAL IS PRESENT ON THIS SHEET, IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

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314.770.0467

LAYOUT	NS	01/2025
DRAWN	SMC	01/2025
REVIEWED	DJK	01/2025

REMOVAL OF IMPROVEMENTS - 1 LUMP SUM (CONT.)

SHEET NO.	PLAN SHEET NO.	ROADWAY	CENTER LINE	STATION FROM	STATION TO	LOCATION	LENGTH (FEET)	WIDTH (FEET)	AREA (SF)	AREA (SY)	EACH	DESCRIPTION OF REMOVAL
28	25 OF 31	RTE 231/BROADWAY	RTE 231	135+92.15	-	LEFT	-	-	-	-	1	EXISTING SIGN
28	25 OF 31	RTE 231/BROADWAY	RTE 231	135+93.72	136+00.21	RIGHT	5.00	6.50	32.50	3.70	-	CONCRETE CURB RAMP
28	25 OF 31	RTE 231/BROADWAY	RTE 231	135+96.79	-	RIGHT	-	-	-	-	1	EXISTING SIGN
28	25 OF 31	RTE 231/BROADWAY	RTE 231	136+00.21	139+85.00	RIGHT	6.00	384.80	2,308.80	256.60	-	CONCRETE SIDEWALK
28	25 OF 31	RTE 231/BROADWAY	RTE 231	136+02.07	139+85.00	RIGHT	383.00	0.90	344.70	38.30	-	CONCRETE CURB
28	25 OF 31	RTE 231/BROADWAY	RTE 231	136+61.18	137+65.09	RIGHT	104.00	-	-	-	-	GUARDRAIL AND END TERMINALS
28	25 OF 31	RTE 231/BROADWAY	RTE 231	136+81.84	-	RIGHT	-	-	-	-	1	EXISTING SIGN
28	25 OF 31	RTE 231/BROADWAY	RTE 231	137+00.83	137+08.18	LEFT	6.00	7.40	44.40	5.00	-	CONCRETE CURB RAMP
28	25 OF 31	RTE 231/BROADWAY	RTE 231	137+15.24	-	RIGHT	-	-	-	-	1	EXISTING SIGN
28	25 OF 31	RTE 231/BROADWAY	RTE 231	137+19.89	-	RIGHT	-	-	-	-	1	ITS POLE
28	25 OF 31	VINCENT	VINCENT	225+34.44	225+76.08	LEFT	41.70	-	-	-	-	FENCE
28	25 OF 31	VINCENT	VINCENT	225+52.19	-	RIGHT	-	-	-	-	3	EXISTING SIGN
28	25 OF 31	RTE 231/BROADWAY	RTE 231	137+40.85	137+50.95	LEFT	6.00	10.10	60.60	6.80	-	CONCRETE CURB RAMP
28	25 OF 31	RTE 231/BROADWAY	RTE 231	137+47.65	139+21.48	LEFT	173.90	-	-	-	-	FENCE
28	25 OF 31	RTE 231/BROADWAY	RTE 231	137+47.74	139+22.88	LEFT	175.20	-	-	-	-	RETAINING WALL CAP
28	25 OF 31	RTE 231/BROADWAY	RTE 231	137+48.92	139+85.00	LEFT	236.10	0.90	212.50	23.70	-	CONCRETE CURB
28	25 OF 31	RTE 231/BROADWAY	RTE 231	137+50.95	139+85.00	LEFT	6.00	234.10	1,404.60	156.10	-	CONCRETE SIDEWALK
28	25 OF 31	RTE 231/BROADWAY	RTE 231	137+54.97	138+66.78	LEFT	111.90	-	-	-	-	GUARDRAIL AND END TERMINALS
28	25 OF 31	RTE 231/BROADWAY	RTE 231	137+81.27	-	RIGHT	-	-	-	-	1	EXISTING SIGN
28	25 OF 31	RTE 231/BROADWAY	RTE 231	137+81.96	-	LEFT	-	-	-	-	1	EXISTING SIGN
28	25 OF 31	RTE 231/BROADWAY	RTE 231	138+12.11	-	LEFT	-	-	-	-	1	EXISTING SIGN
28	25 OF 31	RTE 231/BROADWAY	RTE 231	138+33.44	-	LEFT	-	-	-	-	1	WATER VALVE
28	25 OF 31	RTE 231/BROADWAY	RTE 231	138+53.63	-	LEFT	-	-	-	-	1	EXISTING SIGN
28	25 OF 31	RTE 231/BROADWAY	RTE 231	139+36.79	-	LEFT	-	-	-	-	1	EXISTING SIGN
29	26 OF 31	RTE 231/BROADWAY	RTE 231	139+85.00	140+12.66	RIGHT	6.00	27.70	166.20	18.50	-	CONCRETE SIDEWALK
29	26 OF 31	RTE 231/BROADWAY	RTE 231	139+85.00	140+15.70	RIGHT	30.70	0.90	27.70	3.10	-	CONCRETE CURB
29	26 OF 31	RTE 231/BROADWAY	RTE 231	139+85.00	139+99.55	LEFT	6.00	14.60	87.60	9.80	-	CONCRETE SIDEWALK
29	26 OF 31	RTE 231/BROADWAY	RTE 231	139+85.00	139+96.30	LEFT	11.30	0.90	10.20	1.20	-	CONCRETE CURB
29	26 OF 31	RTE 231/BROADWAY	RTE 231	139+96.87	140+28.43	LEFT	7.00	31.60	185.10	20.60	-	ASPHALT DRIVEWAY
29	26 OF 31	RTE 231/BROADWAY	RTE 231	140+12.66	140+19.79	RIGHT	5.00	7.20	36.00	4.00	-	CONCRETE CURB RAMP
29	26 OF 31	E GOETZ	E GOETZ	230+25.90	-	RIGHT	-	-	-	-	1	EXISTING SIGN
29	26 OF 31	E GOETZ	E GOETZ	230+26.55	-	LEFT	-	-	-	-	1	EXISTING SIGN
29	26 OF 31	E GOETZ	E GOETZ	230+28.00	230+50.00	LEFT	6.00	22.00	132.00	14.70	-	CONCRETE SIDEWALK
29	26 OF 31	RTE 231/BROADWAY	RTE 231	140+25.05	141+59.54	LEFT	134.50	0.90	121.10	13.50	-	CONCRETE CURB
29	26 OF 31	RTE 231/BROADWAY	RTE 231	140+25.64	141+54.75	LEFT	6.00	129.20	775.20	86.20	-	CONCRETE SIDEWALK
29	26 OF 31	RTE 231/BROADWAY	RTE 231	140+47.21	140+53.03	RIGHT	5.00	5.90	29.50	3.30	-	CONCRETE CURB RAMP
29	26 OF 31	RTE 231/BROADWAY	RTE 231	140+55.54	-	RIGHT	-	-	-	-	1	EXISTING SIGN
29	26 OF 31	RTE 231/BROADWAY	RTE 231	140+75.34	-	RIGHT	-	-	-	-	1	LIGHT POLE
29	26 OF 31	RTE 231/BROADWAY	RTE 231	140+88.44	-	RIGHT	-	-	-	-	1	EXISTING SIGN
29	26 OF 31	RTE 231/BROADWAY	RTE 231	140+92.23	141+32.90	RIGHT	7.00	40.70	238.60	26.60	-	ASPHALT DRIVEWAY
29	26 OF 31	RTE 231/BROADWAY	RTE 231	141+34.44	141+62.14	LEFT	4.50	27.70	124.70	13.90	-	CONCRETE CURB RAMP
29	26 OF 31	RTE 231/BROADWAY	RTE 231	141+38.25	141+78.71	RIGHT	7.00	40.50	242.50	27.00	-	ASPHALT DRIVEWAY
29	26 OF 31	MILITARY	MILITARY	235+32.31	-	RIGHT	-	-	-	-	1	EXISTING SIGN
												-

STATE OF MISSOURI
DENNIS J KOSCIELSKI
NUMBER PE-2005000712
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED
7/25/2025

ROUTE	STATE
231	MO
DISTRICT	SHEET NO.
SL	3

COUNTY
ST. LOUIS

JOB NO.
J6S3631

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION	DATE

IF A SEAL IS PRESENT ON THIS SHEET, IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
MoDOT
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JEFFERSON CITY, MO 65102
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Professional Engineer 001632
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314.770.0467

LAYOUT	NS	01/2025
DRAWN	SMC	01/2025
REVIEWED	DJK	01/2025

SUMMARY OF QUANTITIES
SHEET 20 OF 106

REMOVAL OF IMPROVEMENTS - 1 LUMP SUM (CONT.)

SHEET NO.	PLAN SHEET NO.	ROADWAY	CENTER LINE	STATION FROM	STATION TO	LOCATION	LENGTH (FEET)	WIDTH (FEET)	AREA (SF)	AREA (SY)	EACH	DESCRIPTION OF REMOVAL
29	26 OF 31	MILITARY	MILITARY	235+36.39	-	LEFT	-	-	-	-	1	EXISTING SIGN
29	26 OF 31	RTE 231/BROADWAY	RTE 231	141+75.24	141+96.33	RIGHT	21.10	0.90	19.00	2.20	-	CONCRETE CURB
29	26 OF 31	RTE 231/BROADWAY	RTE 231	141+91.35	142+21.79	LEFT	4.50	30.50	137.30	15.30	-	CONCRETE CURB RAMP
29	26 OF 31	RTE 231/BROADWAY	RTE 231	141+92.03	142+33.68	RIGHT	8.50	41.70	241.70	26.90	-	ASPHALT DRIVEWAY
29	26 OF 31	RTE 231/BROADWAY	RTE 231	141+92.54	142+55.20	LEFT	62.70	0.90	56.50	6.30	-	CONCRETE CURB
29	26 OF 31	RTE 231/BROADWAY	RTE 231	142+01.79	142+55.00	LEFT	5.00	53.30	266.50	29.70	-	CONCRETE SIDEWALK
29	26 OF 31	RTE 231/BROADWAY	RTE 231	142+30.25	142+90.32	RIGHT	6.00	60.10	360.60	40.10	-	CONCRETE SIDEWALK
29	26 OF 31	RTE 231/BROADWAY	RTE 231	142+52.32	142+87.04	LEFT	7.00	34.80	249.30	27.70	-	ASPHALT DRIVEWAY
29	26 OF 31	RTE 231/BROADWAY	RTE 231	142+71.07	-	RIGHT	-	-	-	-	1	EXISTING SIGN
29	26 OF 31	RTE 231/BROADWAY	RTE 231	142+71.07	-	RIGHT	-	-	-	-	1	PULL BOX
29	26 OF 31	RTE 231/BROADWAY	RTE 231	142+91.64	-	RIGHT	-	-	-	-	1	MAST ARM
29	26 OF 31	RTE 231/BROADWAY	RTE 231	142+93.78	-	LEFT	-	-	-	-	1	PULL BOX
29	26 OF 31	RTE 231/BROADWAY	RTE 231	142+94.59	142+99.59	LEFT	6.00	5.00	30.00	3.40	-	CONCRETE CURB RAMP
29	26 OF 31	RTE 231/BROADWAY	RTE 231	142+97.59	-	RIGHT	-	-	-	-	1	PULL BOX
29	26 OF 31	RTE 231/BROADWAY	RTE 231	143+00.29	-	LEFT	-	-	-	-	1	MAST ARM
29	26 OF 31	RTE 231/BROADWAY	RTE 231	143+00.64	-	LEFT	-	-	-	-	1	HANDHOLE
29	26 OF 31	RTE 231/BROADWAY	RTE 231	143+49.18	143+55.18	LEFT	6.00	6.00	36.00	4.00	-	CONCRETE CURB RAMP
29	26 OF 31	HOFFMEISTER	HOFFMEISTER	240+75.95	-	RIGHT	-	-	-	-	1	PULL BOX
29	26 OF 31	HOFFMEISTER	HOFFMEISTER	240+85.88	-	RIGHT	-	-	-	-	1	PULL BOX
29	26 OF 31	HOFFMEISTER	HOFFMEISTER	240+91.57	241+06.15	RIGHT	6.00	14.60	87.60	9.80	-	CONCRETE SIDEWALK
29	26 OF 31	HOFFMEISTER	HOFFMEISTER	241+85.42	-	RIGHT	-	-	-	-	1	EXISTING SIGN
29	26 OF 31	RTE 231/BROADWAY	RTE 231	143+49.18	145+25.00	LEFT	6.00	175.90	1,055.40	117.30	-	CONCRETE SIDEWALK
29	26 OF 31	RTE 231/BROADWAY	RTE 231	143+52.34	145+25.00	LEFT	172.70	0.90	155.50	17.30	-	CONCRETE CURB
29	26 OF 31	RTE 231/BROADWAY	RTE 231	143+54.51	-	LEFT	-	-	-	-	1	MAST ARM
29	26 OF 31	RTE 231/BROADWAY	RTE 231	143+56.15	-	LEFT	-	-	-	-	1	HANDHOLE
29	26 OF 31	RTE 231/BROADWAY	RTE 231	143+76.04	-	RIGHT	-	-	-	-	1	MAST ARM
29	26 OF 31	RTE 231/BROADWAY	RTE 231	143+77.53	143+82.51	RIGHT	8.00	5.00	40.00	4.50	-	CONCRETE CURB RAMP
29	26 OF 31	RTE 231/BROADWAY	RTE 231	143+80.28	144+34.26	RIGHT	54.00	0.90	48.60	5.40	-	CONCRETE CURB
29	26 OF 31	RTE 231/BROADWAY	RTE 231	143+82.51	144+34.26	RIGHT	6.00	51.80	310.80	34.60	-	CONCRETE SIDEWALK
29	26 OF 31	RTE 231/BROADWAY	RTE 231	144+04.11	-	LEFT	-	-	-	-	1	EXISTING SIGN
29	26 OF 31	RTE 231/BROADWAY	RTE 231	144+65.09	-	RIGHT	-	-	-	-	1	EXISTING SIGN
29	26 OF 31	RTE 231/BROADWAY	RTE 231	144+92.00	145+06.09	LEFT	2.00	14.10	28.20	3.20	-	RAMP
29	26 OF 31	RTE 231/BROADWAY	RTE 231	145+15.07	-	RIGHT	-	-	-	-	1	EXISTING SIGN
30	27 OF 31	RTE 231/BROADWAY	RTE 231	145+25.00	146+75.75	LEFT	150.80	0.90	135.80	15.10	-	CONCRETE CURB
30	27 OF 31	RTE 231/BROADWAY	RTE 231	145+25.00	146+78.46	LEFT	6.00	153.50	921.00	102.40	-	CONCRETE SIDEWALK
30	27 OF 31	RTE 231/BROADWAY	RTE 231	145+73.22	-	LEFT	-	-	-	-	1	EXISTING SIGN
30	27 OF 31	RTE 231/BROADWAY	RTE 231	146+60.60	-	LEFT	-	-	-	-	1	EXISTING SIGN
30	27 OF 31	RTE 231/BROADWAY	RTE 231	146+73.86	147+13.86	LEFT	7.00	40.00	213.50	23.80	-	ASPHALT DRIVEWAY
30	27 OF 31	RTE 231/BROADWAY	RTE 231	146+82.08	-	RIGHT	-	-	-	-	1	EXISTING SIGN
30	27 OF 31	RTE 231/BROADWAY	RTE 231	147+09.99	147+16.62	LEFT	6.00	6.70	40.20	4.50	-	CONCRETE CURB RAMP
30	27 OF 31	RTE 231/BROADWAY	RTE 231	147+64.56	148+38.10	LEFT	7.00	73.60	451.20	50.20	-	CONCRETE DRIVEWAY
30	27 OF 31	RTE 231/BROADWAY	RTE 231	148+32.87	149+30.05	LEFT	6.00	97.20	583.20	64.80	-	CONCRETE SIDEWALK
												-

SUMMARY OF QUANTITIES
SHEET 21 OF 106

LAYOUT	NS	01/2025
DRAWN	SMC	01/2025
REVIEWED	DJK	01/2025

STATE OF MISSOURI
DENNIS J KOSCIELSKI
NUMBER PE-2005000712
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED
7/25/2025

ROUTE	STATE
231	MO
DISTRICT	SHEET NO.
SL	3

COUNTY
ST. LOUIS

JOB NO.
J6S3631

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION	DATE

IF A SEAL IS PRESENT ON THIS SHEET, IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

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REMOVAL OF IMPROVEMENTS - 1 LUMP SUM (CONT.)

SHEET NO.	PLAN SHEET NO.	ROADWAY	CENTER LINE	STATION FROM	STATION TO	LOCATION	LENGTH (FEET)	WIDTH (FEET)	AREA (SF)	AREA (SY)	EACH	DESCRIPTION OF REMOVAL
30	27 OF 31	RTE 231/BROADWAY	RTE 231	148+38.10	149+33.47	LEFT	95.40	0.90	85.90	9.60	-	CONCRETE CURB
30	27 OF 31	RTE 231/BROADWAY	RTE 231	149+26.18	149+82.85	LEFT	7.00	56.70	451.20	50.20	-	CONCRETE DRIVEWAY
30	27 OF 31	RTE 231/BROADWAY	RTE 231	149+80.06	150+25.00	LEFT	45.00	0.90	40.50	4.50	-	CONCRETE CURB
30	27 OF 31	RTE 231/BROADWAY	RTE 231	149+80.08	150+25.00	LEFT	6.00	45.00	270.00	30.00	-	CONCRETE SIDEWALK
31	28 OF 31	RTE 231/BROADWAY	RTE 231	150+25.00	150+79.96	LEFT	55.00	0.90	49.50	5.50	-	CONCRETE CURB
31	28 OF 31	RTE 231/BROADWAY	RTE 231	150+25.00	150+79.02	LEFT	6.00	54.10	324.60	36.10	-	CONCRETE SIDEWALK
31	28 OF 31	RTE 231/BROADWAY	RTE 231	150+29.61	-	LEFT	-	-	-	-	1	EXISTING SIGN
31	28 OF 31	RTE 231/BROADWAY	RTE 231	150+69.16	-	LEFT	-	-	-	-	1	EXISTING SIGN
31	28 OF 31	RTE 231/BROADWAY	RTE 231	150+76.29	151+32.30	LEFT	7.00	56.10	344.20	38.30	-	CONCRETE DRIVEWAY
31	28 OF 31	RTE 231/BROADWAY	RTE 231	151+32.67	151+42.93	LEFT	5.00	10.30	51.50	5.80	-	CONCRETE CURB RAMP
31	28 OF 31	RTE 231/BROADWAY	RTE 231	151+33.82	151+70.99	LEFT	20.00	37.20	570.10	63.40	-	ASPHALT DRIVEWAY
31	28 OF 31	RTE 231/BROADWAY	RTE 231	151+73.49	-	LEFT	-	-	-	-	1	EXISTING SIGN
31	28 OF 31	WEISS	WEISS	245+25.88	245+78.99	RIGHT	6.00	53.20	319.20	35.50	-	CONCRETE SIDEWALK
31	28 OF 31	WEISS	WEISS	245+27.93	-	RIGHT	-	-	-	-	1	EXISTING SIGN
31	28 OF 31	RTE 231/BROADWAY	RTE 231	152+09.87	152+20.51	LEFT	9.00	10.70	96.30	10.70	-	CONCRETE CURB RAMP
31	28 OF 31	RTE 231/BROADWAY	RTE 231	152+19.99	-	RIGHT	-	-	-	-	1	EXISTING SIGN AND BENCH
31	28 OF 31	RTE 231/BROADWAY	RTE 231	152+40.79	153+26.33	LEFT	7.00	85.60	563.10	62.60	-	CONCRETE DRIVEWAY
31	28 OF 31	RTE 231/BROADWAY	RTE 231	153+23.38	155+20.00	LEFT	6.00	196.70	1,180.20	131.20	-	CONCRETE SIDEWALK
31	28 OF 31	RTE 231/BROADWAY	RTE 231	153+27.97	155+20.00	LEFT	192.10	0.90	172.90	19.30	-	CONCRETE CURB
31	28 OF 31	RTE 231/BROADWAY	RTE 231	154+07.85	-	RIGHT	-	-	-	-	1	EXISTING SIGN
32	29 OF 31	RTE 231/BROADWAY	RTE 231	155+20.00	155+24.95	LEFT	5.00	0.90	4.50	0.50	-	CONCRETE CURB
32	29 OF 31	RTE 231/BROADWAY	RTE 231	155+20.00	155+28.50	LEFT	6.00	8.50	51.00	5.70	-	CONCRETE SIDEWALK
32	29 OF 31	RTE 231/BROADWAY	RTE 231	155+28.45	155+32.63	LEFT	5.00	4.20	21.00	2.40	-	CONCRETE CURB RAMP
32	29 OF 31	HORN	HORN	250+14.60	250+56.50	RIGHT	41.90	0.90	37.80	4.20	-	CONCRETE CURB
32	29 OF 31	HORN	HORN	250+26.44	-	RIGHT	-	-	-	-	1	EXISTING SIGN
32	29 OF 31	HORN	HORN	250+29.11	250+56.50	RIGHT	6.00	27.40	164.40	18.30	-	CONCRETE SIDEWALK
32	29 OF 31	HORN	HORN	250+39.94	-	LEFT	-	-	-	-	1	EXISTING SIGN
32	29 OF 31	HORN	HORN	250+45.63	-	RIGHT	-	-	-	-	1	FIRE HYDRANT
32	29 OF 31	RTE 231/BROADWAY	RTE 231	155+71.45	155+76.21	LEFT	5.00	4.80	24.00	2.70	-	CONCRETE CURB RAMP
32	29 OF 31	RTE 231/BROADWAY	RTE 231	155+72.84	156+27.72	LEFT	54.90	0.90	49.50	5.50	-	CONCRETE CURB
32	29 OF 31	RTE 231/BROADWAY	RTE 231	156+42.28	157+75.92	LEFT	6.00	133.70	802.20	89.20	-	CONCRETE SIDEWALK
32	29 OF 31	RTE 231/BROADWAY	RTE 231	157+75.92	157+87.35	LEFT	6.00	11.50	69.00	7.70	-	CONCRETE CURB RAMP
32	29 OF 31	RTE 231/BROADWAY	RTE 231	157+80.00	158+33.28	LEFT	5.00	53.30	211.50	23.50	-	ASPHALT DRIVEWAY
32	29 OF 31	RTE 231/BROADWAY	RTE 231	158+25.93	158+37.36	LEFT	6.00	11.50	69.00	7.70	-	CONCRETE CURB RAMP
32	29 OF 31	RTE 231/BROADWAY	RTE 231	158+30.72	160+60.00	LEFT	229.30	0.90	206.40	23.00	-	CONCRETE CURB
32	29 OF 31	RTE 231/BROADWAY	RTE 231	158+37.36	160+60.00	LEFT	6.00	222.70	1,336.20	148.50	-	CONCRETE SIDEWALK
32	29 OF 31	RTE 231/BROADWAY	RTE 231	160+09.29	-	RIGHT	-	-	-	-	1	EXISTING SIGN
32	29 OF 31	RTE 231/BROADWAY	RTE 231	160+21.62	-	LEFT	-	-	-	-	1	EXISTING SIGN
33	30 OF 31	RTE 231/BROADWAY	RTE 231	160+60.00	161+24.19	LEFT	6.00	64.20	385.20	42.80	-	CONCRETE SIDEWALK
33	30 OF 31	RTE 231/BROADWAY	RTE 231	160+60.00	161+27.72	LEFT	67.80	0.90	61.10	6.80	-	CONCRETE CURB
33	30 OF 31	RTE 231/BROADWAY	RTE 231	160+74.39	-	LEFT	-	-	-	-	1	EXISTING SIGN
33	30 OF 31	RTE 231/BROADWAY	RTE 231	161+24.19	161+32.67	LEFT	6.00	8.50	51.00	5.70	-	CONCRETE CURB RAMP
												-

SUMMARY OF QUANTITIES
SHEET 22 OF 106

STATE OF MISSOURI
DENNIS J KOSCIELSKI
NUMBER PE-2005000712
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED
7/25/2025

ROUTE	STATE
231	MO
DISTRICT	SHEET NO.
SL	3

COUNTY
ST. LOUIS

JOB NO.
J6S3631

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION	DATE

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MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
MoDOT
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

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314.770.0467

LAYOUT	NS	01/2025
DRAWN	SMC	01/2025
REVIEWED	DJK	01/2025

REMOVAL OF IMPROVEMENTS - 1 LUMP SUM (CONT.)

SHEET NO.	PLAN SHEET NO.	ROADWAY	CENTER LINE	STATION FROM	STATION TO	LOCATION	LENGTH (FEET)	WIDTH (FEET)	AREA (SF)	AREA (SY)	EACH	DESCRIPTION OF REMOVAL
33	30 OF 31	RTE 231/BROADWAY	RTE 231	161+41.02	-	RIGHT	-	-	-	-	1	EXISTING SIGN
33	30 OF 31	WALLER	WALLER	255+35.10	-	LEFT	-	-	-	-	1	EXISTING SIGN
33	30 OF 31	RTE 231/BROADWAY	RTE 231	161+55.65	161+69.78	LEFT	6.00	14.20	85.20	9.50	-	CONCRETE CURB RAMP
33	30 OF 31	RTE 231/BROADWAY	RTE 231	161+59.94	164+26.14	LEFT	266.20	0.90	239.60	26.70	-	CONCRETE CURB
33	30 OF 31	RTE 231/BROADWAY	RTE 231	161+69.75	164+29.20	LEFT	6.00	259.50	1,557.00	173.00	-	CONCRETE SIDEWALK
33	30 OF 31	RTE 231/BROADWAY	RTE 231	163+21.34	-	LEFT	-	-	-	-	1	EXISTING SIGN
33	30 OF 31	RTE 231/BROADWAY	RTE 231	163+43.34	-	LEFT	-	-	-	-	1	EXISTING SIGN
33	30 OF 31	RTE 231/BROADWAY	RTE 231	164+29.98	164+66.64	LEFT	36.70	-	-	-	-	FENCE AND GATE
33	30 OF 31	RTE 231/BROADWAY	RTE 231	164+81.04	164+90.48	LEFT	6.00	9.50	57.00	6.40	-	CONCRETE CURB RAMP
33	30 OF 31	RTE 231/BROADWAY	RTE 231	164+86.54	-	RIGHT	-	-	-	-	1	EXISTING SIGN
33	30 OF 31	KAYSER	KAYSER	260+41.88	-	LEFT	-	-	-	-	1	EXISTING SIGN
33	30 OF 31	RTE 231/BROADWAY	RTE 231	165+24.18	165+81.23	RIGHT	7.00	57.10	311.90	34.70	-	ASPHALT DRIVEWAY
33	30 OF 31	RTE 231/BROADWAY	RTE 231	165+24.18	165+35.73	RIGHT	11.60	0.90	10.50	1.20	-	CONCRETE CURB
33	30 OF 31	RTE 231/BROADWAY	RTE 231	165+24.83	-	RIGHT	-	-	-	-	1	EXISTING SIGN
33	30 OF 31	RTE 231/BROADWAY	RTE 231	165+28.68	165+37.31	LEFT	6.00	8.70	52.20	5.80	-	CONCRETE CURB RAMP
33	30 OF 31	RTE 231/BROADWAY	RTE 231	165+37.20	165+50.46	LEFT	6.00	13.30	79.80	8.90	-	CONCRETE SIDEWALK
33	30 OF 31	RTE 231/BROADWAY	RTE 231	165+42.33	-	LEFT	-	-	-	-	1	EXISTING SIGN
34	31 OF 31	RTE 231/BROADWAY	RTE 231	165+46.73	165+86.47	LEFT	6.00	39.80	195.50	21.80	-	ASPHALT DRIVEWAY
34	31 OF 31	RTE 231/BROADWAY	RTE 231	165+74.49	166+38.59	RIGHT	6.00	64.10	384.60	42.80	-	CONCRETE SIDEWALK
34	31 OF 31	RTE 231/BROADWAY	RTE 231	165+82.27	165+89.17	LEFT	0.50	6.90	3.50	0.40	-	CONCRETE CURB RAMP
34	31 OF 31	RTE 231/BROADWAY	RTE 231	165+82.82	166+06.79	LEFT	6.00	24.00	144.00	16.00	-	CONCRETE SIDEWALK
34	31 OF 31	RTE 231/BROADWAY	RTE 231	166+06.79	166+11.74	LEFT	0.50	5.00	2.50	0.30	-	CONCRETE CURB RAMP
34	31 OF 31	RTE 231/BROADWAY	RTE 231	166+08.96	166+47.24	LEFT	6.00	38.30	190.60	21.20	-	ASPHALT DRIVEWAY
34	31 OF 31	RTE 231/BROADWAY	RTE 231	166+43.85	166+50.26	LEFT	6.00	6.50	39.00	4.40	-	CONCRETE CURB RAMP
34	31 OF 31	RTE 231/BROADWAY	RTE 231	166+50.09	-	RIGHT	-	-	-	-	1	EXISTING SIGN
34	31 OF 31	RTE 231/BROADWAY	RTE 231	166+53.91	-	RIGHT	-	-	-	-	1	EXISTING SIGN
34	31 OF 31	RTE 231/BROADWAY	RTE 231	166+70.43	-	LEFT	-	-	-	-	1	EXISTING SIGN
34	31 OF 31	RTE 231/BROADWAY	RTE 231	166+78.66	166+94.31	LEFT	7.00	15.70	109.90	12.30	-	CONCRETE CURB RAMP
34	31 OF 31	RTE 231/BROADWAY	RTE 231	166+81.87	166+96.47	RIGHT	7.00	14.60	102.20	11.40	-	CONCRETE CURB RAMP
34	31 OF 31	RIVER CITY CASINO	RTE 231	266+28.17	266+80.86	LEFT	6.00	52.70	316.20	35.20	-	CONCRETE SIDEWALK
22	19 OF 31	RTE 231/BROADWAY	RTE 231	110+36.42	110+55.08	RIGHT	6.50	18.70	130.00	14.50	-	EAST CONCRETE DRAINAGE STRUCTURE TOP REMOVAL. UTILIZE FULL DEPTH SAW CUTS TO DETACH LID FROM UNDERLYING
22	19 OF 31	RTE 231/BROADWAY	RTE 231	110+43.22	110+65.69	LEFT	6.90	22.50	160.00	17.80	-	WEST CONCRETE DRAINAGE STRUCTURE TOP REMOVAL. UTILIZE FULL DEPTH SAW CUTS TO DETACH LID FROM UNDERLYING
14	11 OF 31	TACOMA	TACOMA	86+00.00	-	LEFT	-	-	-	-	1	POWER SUPPLY
16	13 OF 31	RTE 231/KINGSTON	RTE 231	76+91.56	-	LEFT	-	-	-	-	1	POWER SUPPLY
21	18 OF 31	BROADWAY	BROADWAY	135+00.00	-	LEFT	-	-	-	-	1	POWER SUPPLY
21	18 OF 31	BROADWAY	BROADWAY	135+85.12	-	RIGHT	-	-	-	-	1	LIGHT POLE
28	25 OF 31	BROADWAY	BROADWAY	137+23.29	-	RIGHT	-	-	-	-	1	LIGHT POLE
28	25 OF 31	BROADWAY	BROADWAY	137+35.88	-	RIGHT	-	-	-	-	1	POWER SUPPLY
ITS REMOVALS												
334	2 OF 16	RTE 231/TELEGRAPH	RTE 231	5+76.94	-	RIGHT	-	-	-	-	1	RADIO
335	3 OF 16	RTE 231/TELEGRAPH	RTE 231	47+39.43	-	LEFT	-	-	-	-	1	RADIO
337	5 OF 16	RTE 231/BROADWAY	RTE 231	108+40.40	-	RIGHT	-	-	-	-	1	RADIO
339	7 OF 16	RTE 231/BROADWAY	RTE 231	143+76.04	-	RIGHT	-	-	-	-	1	RADIO
						PAY TOTAL	**1 LUMP SUM**					

MOBILIZATION	
PAY TOTAL	**1 LUMP SUM**

SIGNET DBE REPORTING	
PAY TOTAL	**1 LUMP SUM**

SUMMARY OF QUANTITIES
SHEET 23 OF 106

LAYOUT	NS	01/2025
DRAWN	SMC	01/2025
REVIEWED	DJK	01/2025

STATE OF MISSOURI
DENNIS J KOSCIELSKI
NUMBER PE-2005000712
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED: 7/25/2025

ROUTE	STATE
231	MO
DISTRICT	SHEET NO.
SL	3

COUNTY: ST. LOUIS
JOB NO.: J6S3631
CONTRACT ID.:
PROJECT NO.:
BRIDGE NO.:

DESCRIPTION	DATE

IF A SEAL IS PRESENT ON THIS SHEET, IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

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St. Louis, Missouri 63101
Professional Engineer 001632
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314.770.0467

ADJUST TO GRADE - BY OTHERS (FOR INFORMATIONAL PURPOSES)

SHEET NO.	DRAINAGE PLAN SHEET NO.	ROADWAY	CENTER LINE	STATION	OFFSET	LOCATION	ADJUST TO GRADE WATER VALVE (EA)	ADJUST TO GRADE WATER METER (EA)	REMARKS
133	1 OF 31	RTE 231/TELEGRAPH	RTE 231	15+94.78	20.56	LT	1	-	ON ROADWAY
133	1 OF 31	RTE 231/TELEGRAPH	RTE 231	16+19.48	48.23	LT	1	-	ON ROADWAY
133	1 OF 31	RTE 231/TELEGRAPH	RTE 231	16+19.96	59.04	LT	1	-	ON ROADWAY
133	1 OF 31	RTE 231/TELEGRAPH	RTE 231	16+33.01	40.04	LT	1	-	ON ROADWAY
134	2 OF 31	RTE 231/TELEGRAPH	RTE 231	18+02.09	30.83	RT	1	-	ON ROADWAY
134	2 OF 31	RTE 231/TELEGRAPH	RTE 231	20+32.17	20.06	LT	1	-	ON ROADWAY
134	2 OF 31	RTE 231/TELEGRAPH	RTE 231	20+35.51	22.60	LT	1	-	ON ROADWAY
134	2 OF 31	RTE 231/TELEGRAPH	RTE 231	20+91.14	24.93	LT	1	-	ON ROADWAY
135	3 OF 31	RTE 231/TELEGRAPH	RTE 231	23+33.74	19.59	LT	1	-	ON ROADWAY
135	3 OF 31	RTE 231/TELEGRAPH	RTE 231	27+89.06	20.15	LT	1	-	ON ROADWAY
136	4 OF 31	RTE 231/TELEGRAPH	RTE 231	29+09.54	18.08	LT	1	-	ON ROADWAY
136	4 OF 31	RTE 231/TELEGRAPH	RTE 231	29+45.67	19.79	LT	1	-	ON ROADWAY
137	5 OF 31	RTE 231/TELEGRAPH	RTE 231	35+14.93	26.20	LT	1	-	ON ROADWAY
137	5 OF 31	RTE 231/TELEGRAPH	RTE 231	36+09.29	36.73	LT	1	-	ON SIDWALK
138	6 OF 31	RTE 231/TELEGRAPH	RTE 231	40+37.95	56.84	LT	1	-	ON ROADWAY
139	7 OF 31	RTE 231/TELEGRAPH	RTE 231	46+99.60	33.66	RT	1	-	ON SIDWALK
139	7 OF 31	RTE 231/TELEGRAPH	RTE 231	47+31.80	33.66	RT	1	-	ON SIDWALK
139	7 OF 31	RTE 231/TELEGRAPH	RTE 231	47+34.52	33.42	RT	1	-	ON SIDWALK
139	7 OF 31	RTE 231/TELEGRAPH	RTE 231	48+08.68	39.76	RT	1	-	ON CURB
139	7 OF 31	RTE 231/TELEGRAPH	RTE 231	48+08.92	39.07	RT	1	-	ON CURB
140	8 OF 31	RTE 231/KINGSTON	RTE 231	51+01.45	22.53	LT	1	-	ON ROADWAY
140	8 OF 31	RTE 231/KINGSTON	RTE 231	51+68.07	23.05	LT	1	-	ON ROADWAY
140	8 OF 31	RTE 231/KINGSTON	RTE 231	51+81.69	31.18	LT	1	-	ON CURB
140	8 OF 31	RTE 231/KINGSTON	RTE 231	51+82.58	33.16	RT	1	-	ON SIDWALK
140	8 OF 31	RTE 231/KINGSTON	RTE 231	52+62.41	34.71	LT	1	-	ON ROADWAY
140	8 OF 31	RTE 231/KINGSTON	RTE 231	53+27.90	34.24	LT	1	-	ON SIDWALK
141	9 OF 31	RTE 231/KINGSTON	RTE 231	54+06.30	32.44	LT	1	-	ON SIDWALK
141	9 OF 31	RTE 231/KINGSTON	RTE 231	54+34.99	30.34	LT	1	-	ON CURB
141	9 OF 31	RTE 231/KINGSTON	RTE 231	54+73.55	34.25	LT	1	-	ON SIDWALK
141	9 OF 31	RTE 231/KINGSTON	RTE 231	55+08.07	34.07	LT	1	-	ON SIDWALK
141	9 OF 31	RTE 231/KINGSTON	RTE 231	55+44.37	32.37	LT	1	-	ON SIDWALK
141	9 OF 31	RTE 231/KINGSTON	RTE 231	56+39.41	32.12	LT	1	-	ON SIDWALK
141	9 OF 31	RTE 231/KINGSTON	RTE 231	56+41.43	30.54	LT	1	-	ON ROADWAY
141	9 OF 31	RTE 231/KINGSTON	RTE 231	56+44.06	21.95	LT	1	-	ON ROADWAY
141	9 OF 31	RTE 231/KINGSTON	RTE 231	56+81.05	34.45	LT	1	-	ON SIDWALK
141	9 OF 31	RTE 231/KINGSTON	RTE 231	57+09.10	34.55	LT	1	-	ON SIDWALK
141	9 OF 31	RTE 231/KINGSTON	RTE 231	57+47.19	35.44	LT	1	-	ON SIDWALK
141	9 OF 31	RTE 231/KINGSTON	RTE 231	57+96.87	33.91	RT	1	-	ON SIDWALK
141	9 OF 31	RTE 231/KINGSTON	RTE 231	58+33.49	34.97	RT	1	-	ON SIDWALK
142	10 OF 31	RTE 231/KINGSTON	RTE 231	58+53.74	33.25	LT	1	-	ON SIDWALK
142	10 OF 31	RTE 231/KINGSTON	RTE 231	58+74.78	35.58	RT	1	-	ON SIDWALK
142	10 OF 31	RTE 231/KINGSTON	RTE 231	59+06.73	34.60	RT	1	-	ON SIDWALK
142	10 OF 31	RTE 231/KINGSTON	RTE 231	59+45.37	35.08	RT	1	-	WITHIN GRADING LIMITS
142	10 OF 31	RTE 231/KINGSTON	RTE 231	59+86.63	35.14	RT	1	-	WITHIN GRADING LIMITS
142	10 OF 31	RTE 231/KINGSTON	RTE 231	61+04.27	35.01	RT	1	-	ON SIDWALK
142	10 OF 31	RTE 231/KINGSTON	RTE 231	62+08.61	33.54	RT	1	-	ON SIDWALK
142	10 OF 31	RTE 231/KINGSTON	RTE 231	62+26.66	34.01	RT	1	-	ON SIDWALK
142	10 OF 31	RTE 231/KINGSTON	RTE 231	62+59.69	33.83	RT	1	-	ON SIDWALK
						TABLE 1 SUBTOTAL	48	-	-

STATE OF MISSOURI
DENNIS J KOSCIELSKI
NUMBER PE-2005000712
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED
7/25/2025

ROUTE	STATE
231	MO
DISTRICT	SHEET NO.
SL	3

COUNTY
ST. LOUIS

JOB NO.
J6S3631

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

IF A SEAL IS PRESENT ON THIS SHEET, IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

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St. Louis, Missouri 63101
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LAYOUT	NS	01/2025
DRAWN	SMC	01/2025
REVIEWED	DJK	01/2025

SUMMARY OF QUANTITIES
SHEET 24 OF 106

ADJUST TO GRADE - BY OTHERS (FOR INFORMATIONAL PURPOSES) (CONT.)

SHEET NO.	DRAINAGE PLAN SHEET NO.	ROADWAY	CENTER LINE	STATION	OFFSET	LOCATION	ADJUST TO GRADE WATER VALVE (EA)	ADJUST TO GRADE WATER METER (EA)	REMARKS
142	10 OF 31	RTE 231/KINGSTON	RTE 231	62+90.92	33.65	LT	1	-	ON SIDWALK
142	10 OF 31	RTE 231/KINGSTON	RTE 231	62+93.26	32.67	RT	1	-	ON SIDWALK
142	10 OF 31	RTE 231/KINGSTON	RTE 231	63+26.50	33.76	RT	1	-	ON SIDWALK
143	11 OF 31	RTE 231/BROADWAY	RTE 231	64+26.90	33.44	RT	1	-	ON SIDWALK
146	14 OF 31	RTE 231/BROADWAY	RTE 231	82+36.77	36.00	RT	1	-	ON ROADWAY
146	14 OF 31	RTE 231/BROADWAY	RTE 231	83+70.68	42.46	LT	1	-	ON SIDEWALK
149	17 OF 31	RTE 231/BROADWAY	RTE 231	95+72.93	33.45	LT	1	-	ON SIDWALK
150	18 OF 31	RTE 231/BROADWAY	RTE 231	104+42.78	22.69	LT	1	-	ON SIDWALK
151	19 OF 31	RTE 231/BROADWAY	RTE 231	104+67.89	24.82	LT	1	-	ON SIDWALK
151	19 OF 31	RTE 231/BROADWAY	RTE 231	104+97.62	25.97	RT	1	-	ON SIDWALK
151	19 OF 31	RTE 231/BROADWAY	RTE 231	105+50.10	23.43	RT	1	-	ON DRIVEWAY ENTRANCE
151	19 OF 31	RTE 231/BROADWAY	RTE 231	106+23.32	28.34	RT	1	-	ON DRIVEWAY ENTRANCE
151	19 OF 31	RTE 231/BROADWAY	RTE 231	106+28.28	27.35	LT	1	-	WITHIN GRADING LIMITS
151	19 OF 31	RTE 231/BROADWAY	RTE 231	107+76.92	22.09	LT	1	-	ON ROADWAY
151	19 OF 31	RTE 231/BROADWAY	RTE 231	108+09.84	20.89	RT	1	-	ON ROADWAY
151	19 OF 31	RTE 231/BROADWAY	RTE 231	108+18.12	27.95	RT	1	-	ON ROADWAY
151	19 OF 31	RTE 231/BROADWAY	RTE 231	108+18.93	17.54	LT	1	-	ON ROADWAY
151	19 OF 31	RTE 231/BROADWAY	RTE 231	108+52.20	20.87	LT	1	-	ON CURB
152	20 OF 31	RTE 231/BROADWAY	RTE 231	110+89.70	29.18	LT	1	-	ON SIDWALK
152	20 OF 31	RTE 231/BROADWAY	RTE 231	110+90.52	29.27	RT	1	-	WITHIN GRADING LIMITS
152	20 OF 31	RTE 231/BROADWAY	RTE 231	113+70.25	21.38	LT	1	-	ON ROADWAY
152	20 OF 31	RTE 231/BROADWAY	RTE 231	113+74.77	19.93	LT	1	-	ON ROADWAY
153	21 OF 31	RTE 231/BROADWAY	RTE 231	114+92.86	25.96	LT	1	-	ON SIDEWALK
153	21 OF 31	RTE 231/BROADWAY	RTE 231	115+18.37	26.42	RT	-	1	ON SIDEWALK
153	21 OF 31	RTE 231/BROADWAY	RTE 231	115+18.60	24.09	RT	1	-	BETWEEN SIDEWALK AND BACK OF CURB
153	21 OF 31	RTE 231/BROADWAY	RTE 231	115+41.90	25.88	LT	1	-	ON DRIVEWAY ENTRANCE
153	21 OF 31	RTE 231/BROADWAY	RTE 231	116+27.98	25.37	LT	1	-	ON SIDEWALK
153	21 OF 31	RTE 231/BROADWAY	RTE 231	116+42.76	36.41	RT	1	-	ON ROADWAY
153	21 OF 31	RTE 231/BROADWAY	RTE 231	116+45.13	24.41	RT	1	-	ON ROADWAY
153	21 OF 31	RTE 231/BROADWAY	RTE 231	116+54.25	16.20	RT	1	-	ON ROADWAY
153	21 OF 31	RTE 231/BROADWAY	RTE 231	116+65.03	27.26	LT	1	-	ON ROADWAY
153	21 OF 31	RTE 231/BROADWAY	RTE 231	116+66.57	32.96	LT	1	-	ON ROADWAY
153	21 OF 31	RTE 231/BROADWAY	RTE 231	116+99.55	24.51	RT	1	-	ON SIDEWALK
153	21 OF 31	RTE 231/BROADWAY	RTE 231	117+22.42	23.18	LT	1	-	ON SIDEWALK
153	21 OF 31	RTE 231/BROADWAY	RTE 231	117+70.90	25.07	LT	1	-	ON SIDEWALK
153	21 OF 31	RTE 231/BROADWAY	RTE 231	118+10.70	23.89	LT	1	-	ON SIDEWALK
153	21 OF 31	RTE 231/BROADWAY	RTE 231	118+20.64	25.26	RT	1	-	ON SIDEWALK
153	21 OF 31	RTE 231/BROADWAY	RTE 231	118+53.55	23.69	LT	1	-	ON SIDEWALK
153	21 OF 31	RTE 231/BROADWAY	RTE 231	119+23.48	18.13	LT	1	-	ON ROADWAY
153	21 OF 31	RTE 231/BROADWAY	RTE 231	119+28.21	22.84	LT	1	-	ON SIDEWALK
153	21 OF 31	RTE 231/BROADWAY	RTE 231	119+61.61	21.27	LT	1	-	ON ROADWAY
153	21 OF 31	RTE 231/BROADWAY	RTE 231	119+90.86	25.15	LT	1	-	ON SIDEWALK
154	22 OF 31	RTE 231/BROADWAY	RTE 231	120+20.00	25.35	LT	1	-	ON SIDEWALK
154	22 OF 31	RTE 231/BROADWAY	RTE 231	120+88.40	23.35	RT	1	-	ON SIDEWALK
154	22 OF 31	RTE 231/BROADWAY	RTE 231	121+01.56	24.66	LT	1	-	ON SIDEWALK
154	22 OF 31	RTE 231/BROADWAY	RTE 231	121+20.22	24.06	RT	1	-	ON SIDEWALK
154	22 OF 31	RTE 231/BROADWAY	RTE 231	121+46.97	25.16	LT	1	-	ON SIDEWALK
154	22 OF 31	RTE 231/BROADWAY	RTE 231	122+63.72	40.42	LT	1	-	ON SIDEWALK
						TABLE 2 SUBTOTAL	47	1	-

SUMMARY OF QUANTITIES
SHEET 25 OF 106

LAYOUT	NS	01/2025
DRAWN	SMC	01/2025
REVIEWED	DJK	01/2025

STATE OF MISSOURI
DENNIS J KOSCIELSKI
NUMBER PE-2005000712
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED 7/25/2025

ROUTE	STATE
231	MO
DISTRICT	SHEET NO.
SL	3

COUNTY ST. LOUIS
JOB NO. J6S3631
CONTRACT ID.
PROJECT NO.
BRIDGE NO.

DESCRIPTION	DATE

IF A SEAL IS PRESENT ON THIS SHEET, IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

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Professional Engineer 2001632
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ADJUST TO GRADE - BY OTHERS (FOR INFORMATIONAL PURPOSES) (CONT.)

SHEET NO.	DRAINAGE PLAN SHEET NO.	ROADWAY	CENTER LINE	STATION	OFFSET	LOCATION	ADJUST TO GRADE WATER VALVE (EA)	ADJUST TO GRADE WATER METER (EA)	REMARKS
154	22 OF 31	RTE 231/BROADWAY	RTE 231	123+03.80	23.88	RT	1	-	ON SIDEWALK
154	22 OF 31	RTE 231/BROADWAY	RTE 231	123+05.14	25.02	RT	1	-	ON SIDEWALK
154	22 OF 31	RTE 231/BROADWAY	RTE 231	123+60.61	24.79	RT	1	-	ON SIDEWALK
154	22 OF 31	RTE 231/BROADWAY	RTE 231	123+94.97	23.21	RT	1	-	ON SIDEWALK
154	22 OF 31	RTE 231/BROADWAY	RTE 231	123+99.16	25.55	LT	-	1	ON SIDEWALK
154	22 OF 31	RTE 231/BROADWAY	RTE 231	123+99.49	22.68	LT	1	-	ON SIDEWALK
154	22 OF 31	RTE 231/BROADWAY	RTE 231	124+40.24	25.64	LT	-	1	ON SIDEWALK
154	22 OF 31	RTE 231/BROADWAY	RTE 231	124+40.58	22.95	LT	1	-	ON SIDEWALK
154	22 OF 31	RTE 231/BROADWAY	RTE 231	124+53.98	19.42	LT	1	-	ON ROADWAY
154	22 OF 31	RTE 231/BROADWAY	RTE 231	124+92.94	40.48	RT	1	-	WITHIN GRADING LIMITS
155	23 OF 31	RTE 231/BROADWAY	RTE 231	125+52.94	21.36	LT	1	-	ON ROADWAY
155	23 OF 31	RTE 231/BROADWAY	RTE 231	125+80.74	25.21	RT	1	-	ON SIDEWALK
155	23 OF 31	RTE 231/BROADWAY	RTE 231	125+81.25	25.31	RT	1	-	ON SIDEWALK
155	23 OF 31	RTE 231/BROADWAY	RTE 231	125+81.83	25.31	RT	1	-	ON SIDEWALK
155	23 OF 31	RTE 231/BROADWAY	RTE 231	126+71.64	24.98	LT	-	1	ON SIDEWALK
155	23 OF 31	RTE 231/BROADWAY	RTE 231	126+72.26	22.81	LT	1	-	ON SIDEWALK
155	23 OF 31	RTE 231/BROADWAY	RTE 231	126+98.18	27.82	LT	1	-	ON SIDEWALK
155	23 OF 31	RTE 231/BROADWAY	RTE 231	127+02.80	23.52	LT	1	-	ON SIDEWALK
155	23 OF 31	RTE 231/BROADWAY	RTE 231	127+34.02	26.18	LT	1	-	ON SIDEWALK
155	23 OF 31	RTE 231/BROADWAY	RTE 231	127+64.28	33.00	RT	1	-	AT CURB
155	23 OF 31	RTE 231/BROADWAY	RTE 231	127+67.07	25.30	LT	1	-	ON SIDEWALK
155	23 OF 31	RTE 231/BROADWAY	RTE 231	128+51.20	36.40	LT	1	-	ON ROADWAY
155	23 OF 31	RTE 231/BROADWAY	RTE 231	129+12.97	24.88	RT	1	-	ON SIDEWALK
155	23 OF 31	RTE 231/BROADWAY	RTE 231	129+38.22	24.18	LT	1	-	ON SIDEWALK
155	23 OF 31	RTE 231/BROADWAY	RTE 231	129+60.14	24.35	RT	1	-	ON SIDEWALK
156	24 OF 31	RTE 231/BROADWAY	RTE 231	130+25.07	20.04	LT	1	-	ON ROADWAY
156	24 OF 31	RTE 231/BROADWAY	RTE 231	130+69.10	18.80	LT	1	-	ON ROADWAY
156	24 OF 31	RTE 231/BROADWAY	RTE 231	130+72.60	16.12	RT	1	-	ON ROADWAY
156	24 OF 31	RTE 231/BROADWAY	RTE 231	130+74.94	22.54	LT	1	-	ON SIDEWALK
156	24 OF 31	RTE 231/BROADWAY	RTE 231	131+47.91	20.58	LT	1	-	ON ROADWAY
156	24 OF 31	RTE 231/BROADWAY	RTE 231	131+57.44	23.78	RT	1	-	ON SIDEWALK
156	24 OF 31	RTE 231/BROADWAY	RTE 231	131+90.97	25.02	RT	1	-	ON SIDEWALK
156	24 OF 31	RTE 231/BROADWAY	RTE 231	131+98.00	23.17	LT	1	-	ON SIDEWALK
156	24 OF 31	RTE 231/BROADWAY	RTE 231	132+35.31	24.63	RT	1	-	ON SIDEWALK
156	24 OF 31	RTE 231/BROADWAY	RTE 231	132+54.24	28.48	LT	1	-	WITHIN GRADING LIMITS
156	24 OF 31	RTE 231/BROADWAY	RTE 231	132+77.35	28.10	LT	-	1	ON SIDEWALK
156	24 OF 31	RTE 231/BROADWAY	RTE 231	132+77.79	22.66	LT	1	-	ON SIDEWALK
156	24 OF 31	RTE 231/BROADWAY	RTE 231	133+53.25	24.55	LT	1	-	ON SIDEWALK
156	24 OF 31	RTE 231/BROADWAY	RTE 231	134+39.86	26.24	RT	1	-	ON SIDEWALK
156	24 OF 31	RTE 231/BROADWAY	RTE 231	134+40.53	20.54	LT	1	-	ON ROADWAY
156	24 OF 31	RTE 231/BROADWAY	RTE 231	134+48.84	19.89	LT	1	-	ON ROADWAY
156	24 OF 31	RTE 231/BROADWAY	RTE 231	134+68.20	24.11	RT	1	-	ON ROADWAY
156	24 OF 31	RTE 231/BROADWAY	RTE 231	134+96.14	29.17	RT	1	-	ON SIDEWALK
156	24 OF 31	RTE 231/BROADWAY	RTE 231	134+96.58	28.01	RT	1	-	ON SIDEWALK
157	25 OF 31	RTE 231/BROADWAY	RTE 231	135+38.83	27.98	LT	1	-	WITHIN GRADING LIMITS
157	25 OF 31	RTE 231/BROADWAY	RTE 231	135+89.30	28.92	RT	1	-	ON ROADWAY
157	25 OF 31	RTE 231/BROADWAY	RTE 231	135+96.40	29.07	LT	1	-	WITHIN GRADING LIMITS
157	25 OF 31	RTE 231/BROADWAY	RTE 231	135+97.63	32.80	RT	1	-	WITHIN GRADING LIMITS
						TABLE 3 SUBTOTAL	44	4	-

STATE OF MISSOURI
DENNIS J KOSCIELSKI
NUMBER PE-2005000712
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED
7/25/2025

ROUTE	STATE
231	MO
DISTRICT	SHEET NO.
SL	3

COUNTY
ST. LOUIS

JOB NO.
J6S3631

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION	DATE

IF A SEAL IS PRESENT ON THIS SHEET, IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

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St. Louis, Missouri 63101
Professional Engineer 001632
www.hanson-inc.com
314.770.0467

LAYOUT	NS	01/2025
DRAWN	SMC	01/2025
REVIEWED	DJK	01/2025

SUMMARY OF QUANTITIES
SHEET 26 OF 106

ADJUST TO GRADE - BY OTHERS (FOR INFORMATIONAL PURPOSES) (CONT.)

SHEET NO.	DRAINAGE PLAN SHEET NO.	ROADWAY	CENTER LINE	STATION	OFFSET	LOCATION	ADJUST TO GRADE WATER VALVE (EA)	ADJUST TO GRADE WATER METER (EA)	REMARKS
157	25 OF 31	RTE 231/BROADWAY	RTE 231	136+25.48	29.56	LT	-	1	WITHIN GRADING LIMITS
157	25 OF 31	RTE 231/BROADWAY	RTE 231	136+25.94	26.73	LT	1	-	ON SIDEWALK
157	25 OF 31	RTE 231/BROADWAY	RTE 231	136+76.71	26.32	LT	1	-	ON SIDEWALK
157	25 OF 31	RTE 231/BROADWAY	RTE 231	137+36.42	20.74	LT	1	-	ON ROADWAY
157	25 OF 31	RTE 231/BROADWAY	RTE 231	137+91.07	27.01	RT	1	-	ON SIDEWALK
158	26 OF 31	RTE 231/BROADWAY	RTE 231	140+42.53	15.22	LT	1	-	ON ROADWAY
158	26 OF 31	RTE 231/BROADWAY	RTE 231	140+50.82	17.98	LT	1	-	ON ROADWAY
158	26 OF 31	RTE 231/BROADWAY	RTE 231	141+00.59	23.88	LT	1	-	ON SIDEWALK
158	26 OF 31	RTE 231/BROADWAY	RTE 231	141+01.14	23.54	LT	1	-	ON SIDEWALK
158	26 OF 31	RTE 231/BROADWAY	RTE 231	141+45.52	23.14	LT	1	-	WITHIN GRADING LIMITS
158	26 OF 31	RTE 231/BROADWAY	RTE 231	141+46.64	16.42	LT	1	-	ON ROADWAY
158	26 OF 31	RTE 231/BROADWAY	RTE 231	141+87.07	32.47	LT	1	-	ON ROADWAY
158	26 OF 31	RTE 231/BROADWAY	RTE 231	142+70.32	16.43	RT	1	-	ON ROADWAY
158	26 OF 31	RTE 231/BROADWAY	RTE 231	142+73.64	35.83	RT	1	-	ON ROADWAY
158	26 OF 31	RTE 231/BROADWAY	RTE 231	142+85.82	38.84	RT	1	-	ON ROADWAY
159	27 OF 31	RTE 231/BROADWAY	RTE 231	153+16.80	22.46	LT	1	-	ON SIDEWALK
160	28 OF 31	RTE 231/BROADWAY	RTE 231	154+58.66	25.10	LT	-	1	ON SIDEWALK
160	28 OF 31	RTE 231/BROADWAY	RTE 231	154+64.47	24.14	LT	-	1	ON SIDEWALK
160	28 OF 31	RTE 231/BROADWAY	RTE 231	154+71.09	28.85	LT	-	1	ON SIDEWALK
161	29 OF 31	RTE 231/BROADWAY	RTE 231	155+62.77	50.98	LT	1	-	ON CURB
161	29 OF 31	RTE 231/BROADWAY	RTE 231	155+76.85	24.47	LT	1	-	ON SIDEWALK
161	29 OF 31	RTE 231/BROADWAY	RTE 231	156+71.17	24.37	LT	1	-	ON SIDEWALK
161	29 OF 31	RTE 231/BROADWAY	RTE 231	156+85.40	21.33	LT	1	-	ON CURB
161	29 OF 31	RTE 231/BROADWAY	RTE 231	156+95.53	26.42	LT	-	1	ON SIDEWALK
161	29 OF 31	RTE 231/BROADWAY	RTE 231	156+97.76	26.21	LT	-	1	ON SIDEWALK
162	30 OF 31	RTE 231/BROADWAY	RTE 231	161+04.75	22.32	LT	1	-	ON CURB
162	30 OF 31	RTE 231/BROADWAY	RTE 231	161+48.32	24.18	LT	1	-	ON ROADWAY
162	30 OF 31	RTE 231/BROADWAY	RTE 231	161+75.47	24.99	LT	1	-	ON SIDEWALK
162	30 OF 31	RTE 231/BROADWAY	RTE 231	162+32.76	25.21	LT	1	-	ON SIDEWALK
162	30 OF 31	RTE 231/BROADWAY	RTE 231	162+40.70	25.56	LT	1	-	ON SIDEWALK
162	30 OF 31	RTE 231/BROADWAY	RTE 231	162+81.50	26.81	LT	1	-	ON SIDEWALK
162	30 OF 31	RTE 231/BROADWAY	RTE 231	163+40.60	24.92	LT	1	-	ON SIDEWALK
162	30 OF 31	RTE 231/BROADWAY	RTE 231	163+53.84	24.59	LT	1	-	ON SIDEWALK
162	30 OF 31	RTE 231/BROADWAY	RTE 231	165+13.68	17.08	RT	1	-	ON ROADWAY
162	30 OF 31	RTE 231/BROADWAY	RTE 231	165+15.66	32.32	LT	1	-	ON ROADWAY
162	30 OF 31	RTE 231/BROADWAY	RTE 231	165+16.98	39.15	LT	1	-	ON ROADWAY
163	31 OF 31	RTE 231/BROADWAY	RTE 231	167+89.16	7.43	RT		1	ON ROADWAY
163	31 OF 31	RTE 231/BROADWAY	RTE 231	167+94.34	8.94	RT		1	ON ROADWAY
163	31 OF 31	RTE 231/BROADWAY	RTE 231	168+00.66	7.78	RT		1	ON ROADWAY
163	31 OF 31	RTE 231/BROADWAY	RTE 231	168+02.18	12.22	RT		1	ON ROADWAY
						TABLE 4 SUBTOTAL	30	10	-
						TABLE 1 SUBTOTAL	48	-	
						TABLE 2 SUBTOTAL	47	1	
						TABLE 3 SUBTOTAL	44	4	
						TABLE 4 SUBTOTAL	30	10	
						TOTAL	**169**	**15**	

STATE OF MISSOURI
DENNIS J KOSCIELSKI
NUMBER PE-2005000712
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED 7/25/2025

ROUTE	STATE
231	MO
DISTRICT	SHEET NO.
SL	3

COUNTY ST. LOUIS

JOB NO. J6S3631

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION	DATE

IF A SEAL IS PRESENT ON THIS SHEET, IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

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HANSON
Hanson Professional Services Inc.
600 Washington Ave., Suite 950
St. Louis, Missouri 63101
Professional Engineer 001632
www.hansoninc.com
314.770.0467

LAYOUT	NS	01/2025
DRAWN	SMC	01/2025
REVIEWED	DJK	01/2025

SUMMARY OF QUANTITIES
SHEET 27 OF 106

ADJUST TO GRADE - BY OTHERS (FOR INFORMATIONAL PURPOSES)

SHEET NO.	DRAINAGE PLAN SHEET NO.	ROADWAY	CENTER LINE	STATION	OFFSET	LOCATION	ADJUST TO GRADE GAS VALVE (EA)	REMARKS
134	2 OF 31	RTE 231/TELEGRAPH	RTE 231	18+66.81	30.34	RT	1	BY OTHERS
135	3 OF 31	RTE 231/TELEGRAPH	RTE 231	27+98.11	33.02	RT	1	BY OTHERS
138	6 OF 31	RTE 231/TELEGRAPH	RTE 231	41+06.88	32.53	RT	1	BY OTHERS
140	8 OF 31	RTE 231/KINGSTON	RTE 231	48+61.45	32.88	LT	1	BY OTHERS
140	8 OF 31	RTE 231/KINGSTON	RTE 231	49+25.83	36.89	LT	1	BY OTHERS
140	8 OF 31	RTE 231/KINGSTON	RTE 231	52+41.13	32.51	LT	1	BY OTHERS
141	9 OF 31	RTE 231/KINGSTON	RTE 231	54+32.34	33.10	LT	1	BY OTHERS
141	9 OF 31	RTE 231/KINGSTON	RTE 231	54+57.48	30.83	RT	1	BY OTHERS
141	9 OF 31	RTE 231/KINGSTON	RTE 231	54+57.52	32.34	RT	1	BY OTHERS
141	9 OF 31	RTE 231/KINGSTON	RTE 231	54+59.84	32.85	RT	1	BY OTHERS
141	9 OF 31	RTE 231/KINGSTON	RTE 231	54+76.61	33.19	LT	1	BY OTHERS
141	9 OF 31	RTE 231/KINGSTON	RTE 231	55+34.89	33.67	RT	1	BY OTHERS
141	9 OF 31	RTE 231/KINGSTON	RTE 231	55+43.19	32.56	LT	1	BY OTHERS
141	9 OF 31	RTE 231/KINGSTON	RTE 231	56+68.30	30.97	RT	1	BY OTHERS
141	9 OF 31	RTE 231/KINGSTON	RTE 231	57+61.70	33.12	LT	1	BY OTHERS
142	10 OF 31	RTE 231/KINGSTON	RTE 231	58+64.29	31.02	LT	1	BY OTHERS
142	10 OF 31	RTE 231/KINGSTON	RTE 231	58+99.61	30.99	RT	1	BY OTHERS
142	10 OF 31	RTE 231/KINGSTON	RTE 231	59+59.90	31.69	RT	1	BY OTHERS
142	10 OF 31	RTE 231/KINGSTON	RTE 231	61+51.31	31.34	LT	1	BY OTHERS
142	10 OF 31	RTE 231/KINGSTON	RTE 231	62+43.93	31.45	LT	1	BY OTHERS
142	10 OF 31	RTE 231/KINGSTON	RTE 231	62+89.27	32.52	LT	1	BY OTHERS
143	11 OF 31	RTE 231/KINGSTON	RTE 231	63+95.35	31.59	LT	1	BY OTHERS
143	11 OF 31	RTE 231/KINGSTON	RTE 231	65+81.43	32.92	LT	1	BY OTHERS
143	11 OF 31	RTE 231/KINGSTON	RTE 231	65+83.21	32.91	LT	1	BY OTHERS
145	13 OF 31	RTE 231/KINGSTON	RTE 231	78+52.67	35.33	LT	1	BY OTHERS
148	16 OF 31	RTE 231/KINGSTON	RTE 231	92+05.64	38.32	RT	1	BY OTHERS
150	18 OF 31	RTE 231/BROADWAY	RTE 231	101+23.45	33.44	LT	1	BY OTHERS
150	18 OF 31	RTE 231/BROADWAY	RTE 231	101+43.02	30.85	LT	1	BY OTHERS
150	18 OF 31	RTE 231/BROADWAY	RTE 231	101+90.74	33.16	LT	1	BY OTHERS
150	18 OF 31	RTE 231/BROADWAY	RTE 231	103+92.51	29.07	RT	1	BY OTHERS
151	19 OF 31	RTE 231/BROADWAY	RTE 231	105+11.36	23.29	RT	1	BY OTHERS
151	19 OF 31	RTE 231/BROADWAY	RTE 231	105+64.12	23.42	RT	1	BY OTHERS
151	19 OF 31	RTE 231/BROADWAY	RTE 231	106+17.35	27.89	RT	1	BY OTHERS
151	19 OF 31	RTE 231/BROADWAY	RTE 231	107+28.16	22.76	RT	1	BY OTHERS
151	19 OF 31	RTE 231/BROADWAY	RTE 231	108+39.50	26.33	LT	1	BY OTHERS
151	19 OF 31	RTE 231/BROADWAY	RTE 231	108+40.57	16.08	RT	1	BY OTHERS
151	19 OF 31	RTE 231/BROADWAY	RTE 231	108+77.93	13.62	LT	1	BY OTHERS
152	20 OF 31	RTE 231/BROADWAY	RTE 231	110+96.29	28.38	RT	1	BY OTHERS
153	21 OF 31	RTE 231/BROADWAY	RTE 231	115+04.96	23.30	LT	1	BY OTHERS
153	21 OF 31	RTE 231/BROADWAY	RTE 231	115+67.42	23.61	LT	1	BY OTHERS
153	21 OF 31	RTE 231/BROADWAY	RTE 231	116+86.51	24.11	RT	1	BY OTHERS
153	21 OF 31	RTE 231/BROADWAY	RTE 231	117+18.46	24.08	LT	1	BY OTHERS
153	21 OF 31	RTE 231/BROADWAY	RTE 231	117+67.20	23.28	LT	1	BY OTHERS
153	21 OF 31	RTE 231/BROADWAY	RTE 231	118+12.11	23.13	LT	1	BY OTHERS
153	21 OF 31	RTE 231/BROADWAY	RTE 231	118+18.22	25.02	RT	1	BY OTHERS
153	21 OF 31	RTE 231/BROADWAY	RTE 231	118+54.73	23.84	RT	1	BY OTHERS
153	21 OF 31	RTE 231/BROADWAY	RTE 231	118+62.24	23.14	LT	1	BY OTHERS
153	21 OF 31	RTE 231/BROADWAY	RTE 231	118+96.13	22.83	LT	1	BY OTHERS
						TABLE 1 SUBTOTAL	48	-

SUMMARY OF QUANTITIES
SHEET 28 OF 106

STATE OF MISSOURI
DENNIS J KOSCIELSKI
NUMBER PE-2005000712
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED
7/25/2025

ROUTE	STATE
231	MO
DISTRICT	SHEET NO.
SL	3

COUNTY
ST. LOUIS

JOB NO.
J6S3631

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION	DATE

IF A SEAL IS PRESENT ON THIS SHEET, IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

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600 Washington Ave., Suite 950
St. Louis, Missouri 63101
Professional Engineer 001632
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314.770.0467

LAYOUT	NS	01/2025
DRAWN	SMC	01/2025
REVIEWED	DJK	01/2025

ADJUST TO GRADE - BY OTHERS (FOR INFORMATIONAL PURPOSES) (CONT.)								
SHEET NO.	DRAINAGE PLAN SHEET NO.	ROADWAY	CENTER LINE	STATION	OFFSET	LOCATION	ADJUST TO GRADE GAS VALVE (EA)	REMARKS
153	21 OF 31	RTE 231/BROADWAY	RTE 231	119+66.68	15.89	LT	1	BY OTHERS
153	21 OF 31	RTE 231/BROADWAY	RTE 231	119+86.51	23.94	LT	1	BY OTHERS
153	21 OF 31	RTE 231/BROADWAY	RTE 231	119+87.05	15.16	LT	1	BY OTHERS
154	22 OF 31	RTE 231/BROADWAY	RTE 231	120+21.69	23.78	LT	1	BY OTHERS
154	22 OF 31	RTE 231/BROADWAY	RTE 231	120+23.33	24.00	RT	1	BY OTHERS
154	22 OF 31	RTE 231/BROADWAY	RTE 231	120+58.53	23.77	RT	1	BY OTHERS
154	22 OF 31	RTE 231/BROADWAY	RTE 231	120+83.59	23.63	RT	1	BY OTHERS
154	22 OF 31	RTE 231/BROADWAY	RTE 231	121+17.08	22.94	RT	1	BY OTHERS
154	22 OF 31	RTE 231/BROADWAY	RTE 231	121+38.44	23.62	LT	1	BY OTHERS
154	22 OF 31	RTE 231/BROADWAY	RTE 231	121+87.16	36.79	RT	1	BY OTHERS
154	22 OF 31	RTE 231/BROADWAY	RTE 231	123+01.42	23.03	RT	1	BY OTHERS
154	22 OF 31	RTE 231/BROADWAY	RTE 231	123+13.93	22.91	RT	1	BY OTHERS
154	22 OF 31	RTE 231/BROADWAY	RTE 231	123+50.48	23.62	RT	1	BY OTHERS
154	22 OF 31	RTE 231/BROADWAY	RTE 231	123+94.97	23.21	RT	1	BY OTHERS
154	22 OF 31	RTE 231/BROADWAY	RTE 231	123+99.57	22.53	LT	1	BY OTHERS
154	22 OF 31	RTE 231/BROADWAY	RTE 231	124+09.55	23.75	RT	1	BY OTHERS
154	22 OF 31	RTE 231/BROADWAY	RTE 231	124+79.94	16.65	LT	1	BY OTHERS
155	23 OF 31	RTE 231/BROADWAY	RTE 231	125+39.49	14.41	LT	1	BY OTHERS
155	23 OF 31	RTE 231/BROADWAY	RTE 231	125+64.33	11.24	RT	1	BY OTHERS
155	23 OF 31	RTE 231/BROADWAY	RTE 231	125+96.91	23.45	RT	1	BY OTHERS
155	23 OF 31	RTE 231/BROADWAY	RTE 231	126+02.33	24.14	RT	1	BY OTHERS
155	23 OF 31	RTE 231/BROADWAY	RTE 231	126+67.34	23.93	LT	1	BY OTHERS
155	23 OF 31	RTE 231/BROADWAY	RTE 231	126+74.71	22.56	RT	1	BY OTHERS
155	23 OF 31	RTE 231/BROADWAY	RTE 231	127+15.33	22.76	RT	1	BY OTHERS
155	23 OF 31	RTE 231/BROADWAY	RTE 231	127+19.43	29.33	LT	1	BY OTHERS
155	23 OF 31	RTE 231/BROADWAY	RTE 231	127+51.95	13.64	RT	1	BY OTHERS
155	23 OF 31	RTE 231/BROADWAY	RTE 231	128+19.25	23.23	RT	1	BY OTHERS
155	23 OF 31	RTE 231/BROADWAY	RTE 231	128+92.03	25.04	RT	1	BY OTHERS
156	24 OF 31	RTE 231/BROADWAY	RTE 231	130+32.03	22.87	LT	1	BY OTHERS
156	24 OF 31	RTE 231/BROADWAY	RTE 231	131+48.67	26.88	RT	1	BY OTHERS
156	24 OF 31	RTE 231/BROADWAY	RTE 231	131+53.47	23.46	RT	1	BY OTHERS
156	24 OF 31	RTE 231/BROADWAY	RTE 231	131+76.68	23.50	RT	1	BY OTHERS
156	24 OF 31	RTE 231/BROADWAY	RTE 231	131+77.60	27.83	RT	1	BY OTHERS
156	24 OF 31	RTE 231/BROADWAY	RTE 231	131+80.52	24.63	RT	1	BY OTHERS
156	24 OF 31	RTE 231/BROADWAY	RTE 231	132+48.00	22.91	LT	1	BY OTHERS
156	24 OF 31	RTE 231/BROADWAY	RTE 231	133+52.50	22.46	LT	1	BY OTHERS
156	24 OF 31	RTE 231/BROADWAY	RTE 231	134+42.54	22.49	RT	1	BY OTHERS
156	24 OF 31	RTE 231/BROADWAY	RTE 231	134+70.06	23.75	RT	1	BY OTHERS
157	25 OF 31	RTE 231/BROADWAY	RTE 231	135+94.64	24.51	LT	1	BY OTHERS
158	26 OF 31	RTE 231/BROADWAY	RTE 231	140+74.57	40.35	RT	1	BY OTHERS
158	26 OF 31	RTE 231/BROADWAY	RTE 231	141+70.68	19.48	LT	1	BY OTHERS
160	28 OF 31	RTE 231/BROADWAY	RTE 231	155+05.30	22.57	LT	1	BY OTHERS
163	31 OF 31	RTE 231/BROADWAY	RTE 231	167+58.81	27.16	LT	1	BY OTHERS
163	31 OF 31	RTE 231/BROADWAY	RTE 231	167+93.40	26.52	RT	1	BY OTHERS
						TABLE 2 SUBTOTAL	44	-

TABLE 1 SUBTOTAL	48
TABLE 2 SUBTOTAL	44
TOTAL	**92**

SUMMARY OF QUANTITIES
SHEET 29 OF 106

LAYOUT	NS	01/2025
DRAWN	SMC	01/2025
REVIEWED	DJK	01/2025

STATE OF MISSOURI
DENNIS J KOSCIELSKI
NUMBER PE-2005000712
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED
7/25/2025

ROUTE	STATE
231	MO
DISTRICT	SHEET NO.
SL	3

COUNTY
ST. LOUIS

JOB NO.
J6S3631

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

IF A SEAL IS PRESENT ON THIS SHEET, IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

DESCRIPTION	DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
MoDOT
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

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St. Louis, Missouri 63101
Professional Engineer 001632
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314.770.0467

ADJUST TO GRADE

SHEET NO.	DRAINAGE PLAN SHEET NO.	ROADWAY	CENTER LINE	STATION	OFFSET	LOCATION	MSD NUMBER	ADJUST TO GRADE MANHOLE (EA)	REMARKS
135	3 OF 31	RTE 231/TELEGRAPH	RTE 231	25+96.86	33.23	RT	29H2-002D	1	IN SIDEWALK
136	4 OF 31	RTE 231/TELEGRAPH	RTE 231	28+29.12	35.76	LT	29H2-003S	1	IN SIDEWALK
136	4 OF 31	RTE 231/TELEGRAPH	RTE 231	28+92.29	36.04	LT	29H2-002S	1	IN SIDEWALK
140	8 OF 31	RTE 231/KINGSTON	RTE 231	51+08.86	36.78	LT	28H3-0277S	1	IN SIDEWALK
140	8 OF 31	RTE 231/KINGSTON	RTE 231	52+53.63	38.87	LT	28H3-0276S	1	IN SIDEWALK
142	10 OF 31	RTE 231/KINGSTON	RTE 231	63+49.41	34.43	RT	28H3-174S	1	IN SIDEWALK
143	11 OF 31	RTE 231/KINGSTON	RTE 231	66+01.97	35.85	RT	28H3-145S	1	IN SIDEWALK
150	18 OF 31	RTE 231/BROADWAY	RTE 231	100+02.99	34.00	LT	UNKNOWN	1	IN SIDEWALK
150	18 OF 31	RTE 231/BROADWAY	RTE 231	100+33.43	33.72	LT	28G1-025D	1	IN SIDEWALK
150	18 OF 31	RTE 231/BROADWAY	RTE 231	100+68.11	29.65	LT	28G1-033S	1	IN SIDEWALK
150	18 OF 31	RTE 231/BROADWAY	RTE 231	103+26.57	32.05	RT	28G1-027D	1	IN SIDEWALK
151	19 OF 31	RTE 231/BROADWAY	RTE 231	107+00.84	26.21	LT	28G1-041S	1	IN SIDEWALK
152	20 OF 31	RTE 231/BROADWAY	RTE 231	110+34.53	26.71	RT	28G1-16D	1	IN SIDEWALK
153	21 OF 31	RTE 231/BROADWAY	RTE 231	118+68.61	24.89	RT	27G4-048S	1	IN SIDEWALK
157	25 OF 31	RTE 231/BROADWAY	RTE 231	135+16.41	23.92	RT	27G4-001S	1	IN SIDEWALK
158	26 OF 31	RTE 231/BROADWAY	RTE 231	142+17.69	24.89	LT	UNKNOWN	1	IN SIDEWALK
158	26 OF 31	RTE 231/BROADWAY	RTE 231	143+66.13	24.88	LT	27G1-076S	1	IN SIDEWALK
159	27 OF 31	RTE 231/BROADWAY	RTE 231	148+95.96	24.88	LT	27G1-072S	1	IN SIDEWALK
161	29 OF 31	RTE 231/BROADWAY	RTE 231	157+46.11	24.91	LT	27G1-124S	1	IN SIDEWALK
161	29 OF 31	RTE 231/BROADWAY	RTE 231	158+70.99	24.99	LT	27G1-125S	1	IN SIDEWALK
							TOTAL	20	-
							PAY TOTAL	**20**	**-**

SUMMARY OF QUANTITIES
SHEET 30 OF 106

STATE OF MISSOURI
DENNIS J KOSCIELSKI
NUMBER PE-2005000712
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED 7/25/2025

ROUTE	STATE
231	MO
DISTRICT	SHEET NO.
SL	3

COUNTY ST. LOUIS

JOB NO. J6S3631

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DATE	DESCRIPTION

IF A SEAL IS PRESENT ON THIS SHEET, IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

MoDOT

105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

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Professional Engineer 001632
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314.770.0467

LAYOUT	NS	01/2025
DRAWN	SMC	01/2025
REVIEWED	DJK	01/2025

FULL DEPTH PAVEMENT

SHEET NO.	DRAINAGE PLAN SHEET NO.	STATION FROM	STATION TO	ROADWAY	CENTER LINE	LOCATION	FULL DEPTH PAVEMENT DEPTH (IN)	DEPTH OF ASPHALT OVERLAY (IN)	DEPTH OF CONCRETE (IN)	DEPTH OF AGGREGATE BASE (IN)	AREA OF FULL DEPTH PAVEMENT REMOVAL (SQFT)	ASPHALTIC CONCRETE CONVERSION FACTOR FOR PG76-22 (SP125CLP MIX) (TONS/CY)	TYPE 5 AGGREGATE FOR BASE (4 IN. THICK) (SQYD)	CONCRETE PAVEMENT (8 IN. NON-REINF) (SQYD)	ASPHALTIC CONCRETE MIXTURE PG76-22 (SP125CLP MIX) WITH REINFORCING FIBERS (TONS)	REMARKS
133	1 OF 31	10+31.66	10+81.00	FRANRU LN	FRANRU LN	LT/RT	14.00	2.00	8.00	4.00	1,508.10	1.97	167.60	167.60	18.4	MEASURED IN CADD
133	1 OF 31	13+72.50	17+75.00	RTE 231/TELEGRAPH	RTE 231	LT	14.00	2.00	8.00	4.00	402.50	1.97	44.80	44.80	4.9	1 FT WIDTH FROM TYP. SECTION
133	1 OF 31	13+72.50	17+75.00	RTE 231/TELEGRAPH	RTE 231	RT	14.00	2.00	8.00	4.00	402.50	1.97	44.80	44.80	4.9	1 FT WIDTH FROM TYP. SECTION
133	1 OF 31	16+45.05	17+75.00	RTE 231/TELEGRAPH	RTE 231	LT	14.00	2.00	8.00	4.00	1,297.30	1.97	144.20	144.20	15.8	MEASURED IN CADD
134	2 OF 31	15+49.89	15+68.65	SYLVANWOOD TERRACE	SYLVANWOOD TERRACE	LT/RT	14.00	2.00	8.00	4.00	512.60	1.97	57.00	57.00	6.3	MEASURED IN CADD
134	2 OF 31	17+75.00	22+75.00	RTE 231/TELEGRAPH	RTE 231	LT	14.00	2.00	8.00	4.00	500.00	1.97	55.60	55.60	6.1	1 FT WIDTH FROM TYP. SECTION
134	2 OF 31	17+75.00	20+16.11	RTE 231/TELEGRAPH	RTE 231	LT	14.00	2.00	8.00	4.00	2,152.90	1.97	239.30	239.30	26.2	MEASURED IN CADD
134	2 OF 31	17+75.00	22+75.00	RTE 231/TELEGRAPH	RTE 231	RT	14.00	2.00	8.00	4.00	500.00	1.97	55.60	55.60	6.1	1 FT WIDTH FROM TYP. SECTION
134	2 OF 31	20+27.00	20+73.00	SYLVIA DR	SYLVIA DR	LT/RT	14.00	2.00	8.00	4.00	1,142.40	1.97	127.00	127.00	13.9	MEASURED IN CADD
134	2 OF 31	20+03.01	20+39.01	RTE 231/TELEGRAPH	RTE 231	LT/RT	14.00	2.00	8.00	4.00	1,413.50	1.97	157.10	157.10	17.2	MEASURED IN CADD
135	3 OF 31	22+75.00	28+00.00	RTE 231/TELEGRAPH	RTE 231	LT	14.00	2.00	8.00	4.00	525.00	1.97	58.40	58.40	6.4	1 FT WIDTH FROM TYP. SECTION
135	3 OF 31	22+75.00	28+00.00	RTE 231/TELEGRAPH	RTE 231	RT	14.00	2.00	8.00	4.00	525.00	1.97	58.40	58.40	6.4	1 FT WIDTH FROM TYP. SECTION
135	3 OF 31	24+35.78	25+13.01	RTE 231/TELEGRAPH	RTE 231	LT	14.00	2.00	8.00	4.00	612.40	1.97	68.10	68.10	7.5	MEASURED IN CADD
135	3 OF 31	24+54.59	25+31.24	RTE 231/TELEGRAPH	RTE 231	RT	14.00	2.00	8.00	4.00	527.70	1.97	58.70	58.70	6.5	MEASURED IN CADD
135	3 OF 31	25+29.00	25+69.00	WILLETTE TERRACE	WILLETTE TERRACE	LT/RT	14.00	2.00	8.00	4.00	918.10	1.97	102.10	102.10	11.2	MEASURED IN CADD
135	3 OF 31	25+57.59	26+07.88	RTE 231/TELEGRAPH	RTE 231	LT	14.00	2.00	8.00	4.00	754.29	1.97	83.90	83.90	9.2	MEASURED IN CADD
135	3 OF 31	26+25.70	26+81.49	RTE 231/TELEGRAPH	RTE 231	RT	14.00	2.00	8.00	4.00	478.40	1.97	53.20	53.20	5.9	MEASURED IN CADD
136	4 OF 31	28+00.00	33+00.00	RTE 231/TELEGRAPH	RTE 231	LT	14.00	2.00	8.00	4.00	500.00	1.97	55.60	55.60	6.1	1 FT WIDTH FROM TYP. SECTION
136	4 OF 31	28+00.00	33+00.00	RTE 231/TELEGRAPH	RTE 231	RT	14.00	2.00	8.00	4.00	500.00	1.97	55.60	55.60	6.1	1 FT WIDTH FROM TYP. SECTION
136	4 OF 31	30+52.34	30+68.38	BRILLIANT LN	BRILLIANT LN	LT/RT	14.00	2.00	8.00	4.00	529.00	1.97	58.80	58.80	6.5	MEASURED IN CADD
136	4 OF 31	32+74.36	33+00.00	RTE 231/TELEGRAPH	RTE 231	LT	14.00	2.00	8.00	4.00	627.30	1.97	69.70	69.70	7.7	MEASURED IN CADD
136	4 OF 31	32+94.44	33+00.00	RTE 231/TELEGRAPH	RTE 231	RT	14.00	2.00	8.00	4.00	133.80	1.97	14.90	14.90	1.7	MEASURED IN CADD
137	5 OF 31	33+00.00	33+18.87	RTE 231/TELEGRAPH	RTE 231	LT	14.00	2.00	8.00	4.00	463.60	1.97	51.60	51.60	5.7	MEASURED IN CADD
137	5 OF 31	33+00.00	33+34.43	RTE 231/TELEGRAPH	RTE 231	RT	14.00	2.00	8.00	4.00	824.90	1.97	91.70	91.70	10.1	MEASURED IN CADD
137	5 OF 31	33+00.00	38+00.00	RTE 231/TELEGRAPH	RTE 231	LT	14.00	2.00	8.00	4.00	500.00	1.97	55.60	55.60	6.1	1 FT WIDTH FROM TYP. SECTION
137	5 OF 31	33+00.00	38+00.00	RTE 231/TELEGRAPH	RTE 231	RT	14.00	2.00	8.00	4.00	500.00	1.97	55.60	55.60	6.1	1 FT WIDTH FROM TYP. SECTION
137	5 OF 31	36+31.66	37+03.34	RTE 231/TELEGRAPH	RTE 231	LT	14.00	2.00	8.00	4.00	456.50	1.97	50.80	50.80	5.6	MEASURED IN CADD
137	5 OF 31	36+36.05	37+85.00	RTE 231/TELEGRAPH	RTE 231	RT	14.00	2.00	8.00	4.00	1,226.00	1.97	136.30	136.30	15.0	MEASURED IN CADD
137	5 OF 31	37+85.00	38+00.00	RTE 231/TELEGRAPH	RTE 231	RT	14.00	2.00	8.00	4.00	88.20	1.97	9.80	9.80	1.1	MEASURED IN CADD
138	6 OF 6	35+33.56	35+65.00	JEFFERSONIAN DR	JEFFERSONIAN DR	LT/RT	14.00	2.00	8.00	4.00	1,321.20	1.97	146.80	146.80	16.1	MEASURED IN CADD
138	6 OF 6	38+00.00	38+35.00	RTE 231/TELEGRAPH	RTE 231	RT	14.00	2.00	8.00	4.00	187.20	1.97	20.80	20.80	2.3	MEASURED IN CADD
138	6 OF 6	38+00.00	43+25.00	RTE 231/TELEGRAPH	RTE 231	LT	14.00	2.00	8.00	4.00	525.00	1.97	58.40	58.40	6.4	1 FT WIDTH FROM TYP. SECTION
138	6 OF 6	38+00.00	43+25.00	RTE 231/TELEGRAPH	RTE 231	RT	14.00	2.00	8.00	4.00	525.00	1.97	58.40	58.40	6.4	1 FT WIDTH FROM TYP. SECTION
138	6 OF 6	38+35.00	39+87.25	RTE 231/TELEGRAPH	RTE 231	RT	14.00	2.00	8.00	4.00	587.20	1.97	65.30	65.30	7.2	MEASURED IN CADD
138	6 OF 6	40+90.00	41+22.04	JEFFERSON BARRACKS RD	JEFFERSON BARRACKS RD	LT/RT	14.00	2.00	8.00	4.00	1,895.60	1.97	210.70	210.70	23.1	MEASURED IN CADD
138	6 OF 6	41+59.56	42+01.29	RTE 231/TELEGRAPH	RTE 231	LT	14.00	2.00	8.00	4.00	222.90	1.97	24.80	24.80	2.8	MEASURED IN CADD
138	6 OF 6	43+09.85	43+25.00	RTE 231/TELEGRAPH	RTE 231	LT	14.00	2.00	8.00	4.00	83.00	1.97	9.30	9.30	1.1	MEASURED IN CADD
139	7 OF 31	43+25.00	43+70.77	RTE 231/TELEGRAPH	RTE 231	LT	14.00	2.00	8.00	4.00	287.00	1.97	31.90	31.90	3.5	MEASURED IN CADD
139	7 OF 31	43+25.00	47+27.57	RTE 231/TELEGRAPH	RTE 231	LT	14.00	2.00	8.00	4.00	402.60	1.97	44.80	44.80	4.9	1 FT WIDTH FROM TYP. SECTION
												TABLE 1 SUBTOTAL	2,953.00	2,953.00	324.5	-

DENNIS J KOSCIELSKI
NUMBER PE-2005000712
STATE OF MISSOURI
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED 7/25/2025

ROUTE	STATE
231	MO
DISTRICT	SHEET NO.
SL	3

COUNTY ST. LOUIS

JOB NO. J6S3631

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION	DATE

IF A SEAL IS PRESENT ON THIS SHEET, IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

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LAYOUT	NS	01/2025
DRAWN	SMC	01/2025
REVIEWED	DJK	01/2025

SUMMARY OF QUANTITIES
SHEET 31 OF 106

FULL DEPTH PAVEMENT (CONT.)

SHEET NO.	DRAINAGE PLAN SHEET NO.	STATION FROM	STATION TO	ROADWAY	CENTER LINE	LOCATION	FULL DEPTH PAVEMENT DEPTH (IN.)	DEPTH OF ASPHALT OVERLAY (IN)	DEPTH OF CONCRETE (IN)	DEPTH OF AGGREGATE BASE (IN)	AREA OF FULL DEPTH PAVEMENT REMOVAL (SQFT)	ASPHALTIC CONCRETE CONVERSION FACTOR FOR PG76-22 (SP125CLP MIX) (TONS/CY)	TYPE 5 AGGREGATE FOR BASE (4 IN. THICK) (SQYD)	CONCRETE PAVEMENT (8 IN. NON-REINF) (SQYD)	ASPHALTIC CONCRETE MIXTURE PG76-22 (SP125CLP MIX) WITH REINFORCING FIBERS (TONS)	REMARKS
139	7 OF 31	43+25.00	48+35.00	RTE 231/TELEGRAPH	RTE 231	RT	14.00	2.00	8.00	4.00	510.00	1.97	56.70	56.70	6.3	1 FT WIDTH FROM TYP. SECTION
139	7 OF 31	45+05.33	45+15.33	RTE 231/TELEGRAPH	RTE 231	LT	14.00	2.00	8.00	4.00	53.90	1.97	6.00	6.00	0.7	MEASURED IN CADD
139	7 OF 31	45+50.90	45+70.94	BETTY JEAN LN	BETTY JEAN LN	LT/RT	14.00	2.00	8.00	4.00	880.30	1.97	97.90	97.90	10.8	MEASURED IN CADD
139	7 OF 31	46+16.60	46+81.30	RTE 231/TELEGRAPH	RTE 231	LT	14.00	2.00	8.00	4.00	382.00	1.97	42.50	42.50	4.7	MEASURED IN CADD
139	7 OF 31	46+66.42	46+92.59	RTE 231/TELEGRAPH	RTE 231	CENTER	14.00	2.00	8.00	4.00	184.60	1.97	20.60	20.60	2.3	MEASURED IN CADD
139	7 OF 31	47+17.82	48+35.00	RTE 231/TELEGRAPH	RTE 231	CENTER	14.00	2.00	8.00	4.00	2,077.30	1.97	230.90	230.90	25.3	MEASURED IN CADD
139	7 OF 31	48+13.23	48+35.00	RTE 231/TELEGRAPH	RTE 231	LT	14.00	2.00	8.00	4.00	139.60	1.97	15.60	15.60	1.7	MEASURED IN CADD
139	7 OF 31	48+22.99	48+35.00	RTE 231/TELEGRAPH	RTE 231	RT	14.00	2.00	8.00	4.00	23.80	1.97	2.70	2.70	0.3	MEASURED IN CADD
139	7 OF 31	50+48.74	50+94.37	TELEGRAPH RD	TELEGRAPH RD	LT/RT	14.00	2.00	8.00	4.00	2,944.70	1.97	327.20	327.20	35.9	MEASURED IN CADD
139	7 OF 31	55+50.90	55+73.95	LAREDO AVE	LAREDO AVE	LT/RT	14.00	2.00	8.00	4.00	844.10	1.97	93.80	93.80	10.3	MEASURED IN CADD
140	8 OF 31	48+35.00	48+55.00	RTE 231/KINGSTON	RTE 231	LT	14.00	2.00	8.00	4.00	79.30	1.97	8.90	8.90	1.0	MEASURED IN CADD
140	8 OF 31	48+35.00	48+42.23	RTE 231/KINGSTON	RTE 231	CENTER	14.00	2.00	8.00	4.00	100.70	1.97	11.20	11.20	1.3	MEASURED IN CADD
140	8 OF 31	48+35.00	48+55.00	RTE 231/KINGSTON	RTE 231	RT	14.00	2.00	8.00	4.00	29.60	1.97	3.30	3.30	0.4	MEASURED IN CADD
140	8 OF 31	48+35.00	53+50.00	RTE 231/KINGSTON	RTE 231	RT	14.00	2.00	8.00	4.00	515.00	1.97	57.30	57.30	6.3	1 FT WIDTH FROM TYP. SECTION
140	8 OF 31	48+55.00	48+69.27	RTE 231/KINGSTON	RTE 231	RT	14.00	2.00	8.00	4.00	7.90	1.97	0.90	0.90	0.1	MEASURED IN CADD
140	8 OF 31	48+55.00	52+48.89	RTE 231/KINGSTON	RTE 231	LT	14.00	2.00	8.00	4.00	1,052.00	1.97	116.90	116.90	12.8	MEASURED IN CADD
140	8 OF 31	51+21.99	52+44.22	RTE 231/KINGSTON	RTE 231	RT	14.00	2.00	8.00	4.00	741.50	1.97	82.40	82.40	9.1	MEASURED IN CADD
140	8 OF 31	60+67.70	60+88.89	SIGSBEE AVE	SIGSBEE AVE	LT/RT	14.00	2.00	8.00	4.00	607.40	1.97	67.50	67.50	7.4	MEASURED IN CADD
140	8 OF 31	61+53.39	61+74.33	SIGSBEE AVE	SIGSBEE AVE	LT/RT	14.00	2.00	8.00	4.00	565.70	1.97	62.90	62.90	6.9	MEASURED IN CADD
140	8 OF 31	65+30.04	65+58.32	ATLAS DR	ATLAS DR	LT/RT	14.00	2.00	8.00	4.00	873.00	1.97	97.00	97.00	10.7	MEASURED IN CADD
141	9 OF 31	53+50.00	58+50.00	RTE 231/KINGSTON	RTE 231	RT	14.00	2.00	8.00	4.00	500.00	1.97	55.60	55.60	6.1	1 FT WIDTH FROM TYP. SECTION
141	9 OF 31	55+33.37	55+90.46	RTE 231/KINGSTON	RTE 231	RT	14.00	2.00	8.00	4.00	408.70	1.97	45.50	45.50	5.0	MEASURED IN CADD
141	9 OF 31	70+49.93	70+70.87	SHETLAND DR	SHETLAND DR	LT/RT	14.00	2.00	8.00	4.00	703.90	1.97	78.30	78.30	8.6	MEASURED IN CADD
141	9 OF 31	75+29.74	75+65.00	GENEVA DR	GENEVA DR	LT/RT	14.00	2.00	8.00	4.00	1,056.00	1.97	117.40	117.40	12.9	MEASURED IN CADD
142	10 OF 31	58+50.00	63+50.00	RTE 231/KINGSTON	RTE 231	RT	14.00	2.00	8.00	4.00	500.00	1.97	55.60	55.60	6.1	1 FT WIDTH FROM TYP. SECTION
142	10 OF 31	80+51.77	80+71.54	TERREL DR	TERREL DR	LT/RT	14.00	2.00	8.00	4.00	655.30	1.97	72.90	72.90	8.0	MEASURED IN CADD
143	11 OF 31	63+50.00	68+75.00	RTE 231/KINGSTON	RTE 231	RT	14.00	2.00	8.00	4.00	525.00	1.97	58.40	58.40	6.4	1 FT WIDTH FROM TYP. SECTION
143	11 OF 31	85+29.36	85+51.15	TACOMA DR	TACOMA DR	LT/RT	14.00	2.00	8.00	4.00	798.30	1.97	88.70	88.70	9.8	MEASURED IN CADD
143	11 OF 31	90+28.27	90+50.88	SOUTHWARK LN	SOUTHWARK LN	LT/RT	14.00	2.00	8.00	4.00	756.20	1.97	84.10	84.10	9.2	MEASURED IN CADD
144	12 OF 31	68+75.00	73+75.00	RTE 231/KINGSTON	RTE 231	RT	14.00	2.00	8.00	4.00	500.00	1.97	55.60	55.60	6.1	1 FT WIDTH FROM TYP. SECTION
144	12 OF 31	71+05.69	71+44.69	RTE 231/KINGSTON	RTE 231	CENTER	14.00	2.00	8.00	4.00	1,213.80	1.97	134.90	134.90	14.8	MEASURED IN CADD
144	12 OF 31	95+28.28	95+42.50	EARLSFIELD LN	EARLSFIELD LN	LT/RT	14.00	2.00	8.00	4.00	530.90	1.97	59.00	59.00	6.5	MEASURED IN CADD
144	12 OF 31	100+29.14	100+49.05	SOUTHAMPTON DR	SOUTHAMPTON DR	LT/RT	14.00	2.00	8.00	4.00	643.10	1.97	71.50	71.50	7.9	MEASURED IN CADD
145	13 OF 31	73+75.00	78+75.00	RTE 231/KINGSTON	RTE 231	RT	14.00	2.00	8.00	4.00	500.00	1.97	55.60	55.60	6.1	1 FT WIDTH FROM TYP. SECTION
145	13 OF 31	105+28.88	105+43.77	WOOLWICH LN	WOOLWICH LN	LT/RT	14.00	2.00	8.00	4.00	590.00	1.97	65.60	65.60	7.2	MEASURED IN CADD
145	13 OF 31	110+28.85	110+51.58	PENTONVILLE DR	PENTONVILLE DR	LT/RT	14.00	2.00	8.00	4.00	778.80	1.97	86.60	86.60	9.5	MEASURED IN CADD
146	14 OF 31	78+75.00	84+00.00	RTE 231/KINGSTON	RTE 231	RT	14.00	2.00	8.00	4.00	525.00	1.97	58.40	58.40	6.4	1 FT WIDTH FROM TYP. SECTION
146	14 OF 31	83+63.66	84+00.00	RTE 231/KINGSTON	RTE 231	LT	14.00	2.00	8.00	4.00	36.40	1.97	4.10	4.10	0.5	1 FT WIDTH FROM TYP. SECTION
146	14 OF 31	115+29.05	115+57.38	WALWORTH DR	WALWORTH DR	LT/RT	14.00	2.00	8.00	4.00	876.30	1.97	97.40	97.40	10.7	MEASURED IN CADD
												TABLE 2 SUBTOTAL	2,747.40	2,747.40	302.1	-

LAYOUT	NS	01/2025
DRAWN	SMC	01/2025
REVIEWED	DJK	01/2025

STATE OF MISSOURI
DENNIS J KOSCIELSKI
NUMBER PE-2005000712
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED: 7/25/2025

ROUTE	STATE
231	MO

DISTRICT	SHEET NO.
SL	3

COUNTY: ST. LOUIS

JOB NO.: J6S3631

CONTRACT ID.:

PROJECT NO.:

BRIDGE NO.:

DESCRIPTION	DATE

IF A SEAL IS PRESENT ON THIS SHEET, IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

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St. Louis, Missouri 63101
Professional Engineer 001632
www.hanson-inc.com
314.770.0467

SUMMARY OF QUANTITIES
SHEET 32 OF 106

FULL DEPTH PAVEMENT (CONT.)

SHEET NO.	DRAINAGE PLAN SHEET NO.	STATION FROM	STATION TO	ROADWAY	CENTER LINE	LOCATION	FULL DEPTH PAVEMENT DEPTH (IN.)	DEPTH OF ASPHALT OVERLAY (IN)	DEPTH OF CONCRETE (IN)	DEPTH OF AGGREGATE BASE (IN)	AREA OF FULL DEPTH PAVEMENT REMOVAL (SQFT)	ASPHALTIC CONCRETE CONVERSION FACTOR FOR PG76-22 (SP125CLP MIX) (TONS/CY)	TYPE 5 AGGREGATE FOR BASE (4 IN. THICK) (SQYD)	CONCRETE PAVEMENT (8 IN. NON-REINF) (SQYD)	ASPHALTIC CONCRETE MIXTURE PG76-22 (SP125CLP MIX) WITH REINFORCING FIBERS (TONS)	REMARKS
146	14 OF 31	120+30.00	120+48.95	LAMBETH LN	LAMBETH LN	LT/RT	14.00	2.00	8.00	4.00	615.10	1.97	68.40	68.40	7.5	MEASURED IN CADD
147	15 OF 31	84+00.00	89+25.00	RTE 231/KINGSTON	RTE 231	RT	14.00	2.00	8.00	4.00	525.00	1.97	58.40	58.40	6.4	1 FT WIDTH FROM TYP. SECTIONS
147	15 OF 31	84+00.00	88+40.38	RTE 231/KINGSTON	RTE 231	LT	14.00	2.00	8.00	4.00	440.40	1.97	49.00	49.00	5.4	1 FT WIDTH FROM TYP. SECTIONS
147	15 OF 31	125+30.01	125+46.76	CARRINGTON LN	CARRINGTON LN	LT/RT	14.00	2.00	8.00	4.00	478.60	1.97	53.20	53.20	5.9	MEASURED IN CADD
148	16 OF 31	89+25.00	94+25.00	RTE 231/KINGSTON	RTE 231	RT	14.00	2.00	8.00	4.00	500.00	1.97	55.60	55.60	6.1	1 FT WIDTH FROM TYP. SECTIONS
148	16 OF 31	89+36.79	89+77.79	RTE 231/KINGSTON	RTE 231	LT/RT	14.00	2.00	8.00	4.00	1,435.40	1.97	159.50	159.50	17.5	MEASURED IN CADD
148	16 OF 31	91+65.28	91+93.22	RTE 231/KINGSTON	RTE 231	LT	14.00	2.00	8.00	4.00	9,165.28	1.97	1,018.40	1,018.40	111.5	MEASURED IN CADD
148	16 OF 31	130+28.82	130+43.00	CLYDE AVE	CLYDE AVE	LT/RT	14.00	2.00	8.00	4.00	367.90	1.97	40.90	40.90	4.5	MEASURED IN CADD
149	17 OF 31	94+25.00	99+25.00	RTE 231/KINGSTON	RTE 231	RT	14.00	2.00	8.00	4.00	500.00	1.97	55.60	55.60	6.1	1 FT WIDTH FROM TYP. SECTIONS
149	17 OF 31	98+65.51	99+25.00	RTE 231/KINGSTON	RTE 231	RT	14.00	2.00	8.00	4.00	238.00	1.97	26.50	26.50	2.9	MEASURED IN CADD
150	18 OF 31	99+25.00	104+50.00	RTE 231/BROADWAY	RTE 231	RT	14.00	2.00	8.00	4.00	525.00	1.97	58.40	58.40	6.4	1 FT WIDTH FROM TYP. SECTIONS
150	18 OF 31	99+25.00	100+15.14	RTE 231/KINGSTON	RTE 231	RT	14.00	2.00	8.00	4.00	335.80	1.97	37.40	37.40	4.1	MEASURED IN CADD
150	18 OF 31	99+56.74	101+43.49	RTE 231/KINGSTON	RTE 231	LT	14.00	2.00	8.00	4.00	250.40	1.97	27.90	27.90	3.1	MEASURED IN CADD
150	18 OF 31	135+41.45	135+91.72	S BROADWAY ST	S BROADWAY ST	LT/RT	14.00	2.00	8.00	4.00	3,059.10	1.97	339.90	339.90	37.3	MEASURED IN CADD
151	19 OF 31	104+50.00	109+50.00	RTE 231/BROADWAY	RTE 231	RT	14.00	2.00	8.00	4.00	500.00	1.97	55.60	55.60	6.1	1 FT WIDTH FROM TYP. SECTIONS
151	19 OF 31	108+12.64	109+50.00	RTE 231/BROADWAY	RTE 231	LT	14.00	2.00	8.00	4.00	137.40	1.97	15.30	15.30	1.7	1 FT WIDTH FROM TYP. SECTIONS
151	19 OF 31	140+48.98	140+79.07	RIPA AVE	RIPA AVE	LT/RT	14.00	2.00	8.00	4.00	1,070.30	1.97	119.00	119.00	13.1	MEASURED IN CADD
151	19 OF 31	141+17.52	141+47.00	RIPA AVE	RIPA AVE	LT/RT	14.00	2.00	8.00	4.00	760.30	1.97	84.50	84.50	9.3	MEASURED IN CADD
152	20 OF 31	109+50.00	114+50.00	RTE 231/BROADWAY	RTE 231	RT	14.00	2.00	8.00	4.00	500.00	1.97	55.60	55.60	6.1	1 FT WIDTH FROM TYP. SECTIONS
152	20 OF 31	109+50.00	114+50.00	RTE 231/BROADWAY	RTE 231	LT	14.00	2.00	8.00	4.00	500.00	1.97	55.60	55.60	6.1	1 FT WIDTH FROM TYP. SECTIONS
152	20 OF 31	145+79.41	145+62.07	VIEHL AVE	VIEHL AVE	LT/RT	14.00	2.00	8.00	4.00	472.20	1.97	52.50	52.50	5.8	MEASURED IN CADD
153	21 OF 31	114+50.00	119+92.00	RTE 231/BROADWAY	RTE 231	RT	14.00	2.00	8.00	4.00	542.00	1.97	60.30	60.30	6.6	1 FT WIDTH FROM TYP. SECTIONS
153	21 OF 31	114+50.00	119+92.00	RTE 231/BROADWAY	RTE 231	LT	14.00	2.00	8.00	4.00	542.00	1.97	60.30	60.30	6.6	1 FT WIDTH FROM TYP. SECTIONS
153	21 OF 31	116+62.53	117+18.69	RTE 231/BROADWAY	RTE 231	LT/RT	14.00	2.00	8.00	4.00	1,158.00	1.97	128.70	128.70	14.1	MEASURED IN CADD
153	21 OF 31	150+20.86	150+50.00	E ARLEE AVE	E ARLEE AVE	LT/RT	14.00	2.00	8.00	4.00	592.20	1.97	65.80	65.80	7.3	MEASURED IN CADD
153	21 OF 31	155+64.50	155+79.17	W ARLEE AVE	W ARLEE AVE	LT/RT	14.00	2.00	8.00	4.00	386.30	1.97	43.00	43.00	4.7	MEASURED IN CADD
153	21 OF 31	160+20.57	160+40.66	E FELTON AVE	E FELTON AVE	LT/RT	14.00	2.00	8.00	4.00	647.90	1.97	72.00	72.00	7.9	MEASURED IN CADD
153	21 OF 31	165+54.00	165+79.68	W FELTON AVE	W FELTON AVE	LT/RT	14.00	2.00	8.00	4.00	642.60	1.97	71.40	71.40	7.9	MEASURED IN CADD
154	22 OF 31	119+92.00	125+00.00	RTE 231/BROADWAY	RTE 231	RT	14.00	2.00	8.00	4.00	508.00	1.97	56.50	56.50	6.2	1 FT WIDTH FROM TYP. SECTIONS
154	22 OF 31	119+92.00	125+00.00	RTE 231/BROADWAY	RTE 231	LT	14.00	2.00	8.00	4.00	508.00	1.97	56.50	56.50	6.2	1 FT WIDTH FROM TYP. SECTIONS
154	22 OF 31	122+08.40	122+47.82	RTE 231/BROADWAY	RTE 231	RT	14.00	2.00	8.00	4.00	331.90	1.97	36.90	36.90	4.1	MEASURED IN CADD
154	22 OF 31	122+21.40	123+03.23	RTE 231/BROADWAY	RTE 231	RT	14.00	2.00	8.00	4.00	1,012.50	1.97	112.50	112.50	12.4	MEASURED IN CADD
154	22 OF 31	170+20.89	170+40.96	E LORETTA AVE	E LORETTA AVE	LT/RT	14.00	2.00	8.00	4.00	509.90	1.97	56.70	56.70	6.3	MEASURED IN CADD
154	22 OF 31	175+50.00	175+87.85	W LORETTA AVE	W LORETTA AVE	LT/RT	14.00	2.00	8.00	4.00	1,386.70	1.97	154.10	154.10	16.9	MEASURED IN CADD
154	22 OF 31	180+20.60	180+36.22	E HOLDEN AVE	E HOLDEN AVE	LT/RT	14.00	2.00	8.00	4.00	425.80	1.97	47.40	47.40	5.2	MEASURED IN CADD
155	23 OF 31	125+00.00	130+00.00	RTE 231/BROADWAY	RTE 231	RT	14.00	2.00	8.00	4.00	500.00	1.97	55.60	55.60	6.1	1 FT WIDTH FROM TYP. SECTIONS
155	23 OF 31	125+00.00	130+00.00	RTE 231/BROADWAY	RTE 231	LT	14.00	2.00	8.00	4.00	500.00	1.97	55.60	55.60	6.1	1 FT WIDTH FROM TYP. SECTIONS
155	23 OF 31	125+63.05	125+94.58	RTE 231/BROADWAY	RTE 231	LT/RT	14.00	2.00	8.00	4.00	875.90	1.97	97.40	97.40	10.7	MEASURED IN CADD
155	23 OF 31	185+52.00	185+79.27	W HOLDEN AVE	W HOLDEN AVE	LT/RT	14.00	2.00	8.00	4.00	699.90	1.97	77.80	77.80	8.6	MEASURED IN CADD
												TABLE 3 SUBTOTAL	3,795.70	3,795.70	416.8	-

SUMMARY OF QUANTITIES
SHEET 33 OF 106

STATE OF MISSOURI
DENNIS J KOSCIELSKI
NUMBER PE-2005000712
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED 7/25/2025

ROUTE	STATE
231	MO
DISTRICT	SHEET NO.
SL	3

COUNTY ST. LOUIS
JOB NO. J6S3631
CONTRACT ID.
PROJECT NO.
BRIDGE NO.

DESCRIPTION	DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

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600 Washington Ave., Suite 950
St. Louis, Missouri 63101
Professional Engineer 001632
www.hanson-inc.com
314.770.0467

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

LAYOUT	NS	01/2025
DRAWN	SMC	01/2025
REVIEWED	DJK	01/2025

FULL DEPTH PAVEMENT (CONT.)

SHEET NO.	DRAINAGE PLAN SHEET NO.	STATION FROM	STATION TO	ROADWAY	CENTER LINE	LOCATION	FULL DEPTH PAVEMENT DEPTH (IN.)	DEPTH OF ASPHALT OVERLAY (IN)	DEPTH OF CONCRETE (IN)	DEPTH OF AGGREGATE BASE (IN)	AREA OF FULL DEPTH PAVEMENT REMOVAL (SQFT)	ASPHALTIC CONCRETE CONVERSION FACTOR FOR PG76-22 (SP125CLP MIX) (TONS/CY)	TYPE 5 AGGREGATE FOR BASE (4 IN. THICK) (SQYD)	CONCRETE PAVEMENT (8 IN. NON-REINF) (SQYD)	ASPHALTIC CONCRETE MIXTURE PG76-22 (SP125CLP MIX) WITH REINFORCING FIBERS (TONS)	REMARKS
155	23 OF 31	190+20.60	190+36.91	E VELMA AVE	E VELMA AVE	LT/RT	14.00	2.00	8.00	4.00	363.80	1.94	40.50	40.50	4.4	MEASURED IN CADD
155	23 OF 31	195+57.36	195+79.47	W VELMA AVE	W VELMA AVE	LT/RT	14.00	2.00	8.00	4.00	489.50	1.94	54.40	54.40	5.9	MEASURED IN CADD
156	24 OF 31	130+00.00	135+00.00	RTE 231/BROADWAY	RTE 231	RT	14.00	2.00	8.00	4.00	500.00	1.94	55.60	55.60	6.0	1 FT WIDTH FROM TYP. SECTIONS
156	24 OF 31	130+00.00	135+00.00	RTE 231/BROADWAY	RTE 231	LT	14.00	2.00	8.00	4.00	500.00	1.94	55.60	55.60	6.0	1 FT WIDTH FROM TYP. SECTIONS
156	24 OF 31	130+74.86	131+10.82	RTE 231/BROADWAY	RTE 231	LT/RT	14.00	2.00	8.00	4.00	956.00	1.94	106.30	106.30	11.5	MEASURED IN CADD
156	24 OF 31	200+20.79	200+47.25	E ETTA AVE	E ETTA AVE	LT/RT	14.00	2.00	8.00	4.00	698.80	1.94	77.70	77.70	8.4	MEASURED IN CADD
156	24 OF 31	205+45.81	205+79.49	W ETTA AVE	W ETTA AVE	LT/RT	14.00	2.00	8.00	4.00	805.40	1.94	89.50	89.50	9.7	MEASURED IN CADD
156	24 OF 31	210+20.79	210+42.92	E CARTWRIGHT AVE	E CARTWRIGHT AVE	LT/RT	14.00	2.00	8.00	4.00	635.00	1.94	70.60	70.60	7.7	MEASURED IN CADD
156	24 OF 31	215+45.68	215+80.33	W CARTWRIGHT AVE	W CARTWRIGHT AVE	LT/RT	14.00	2.00	8.00	4.00	864.90	1.94	96.10	96.10	10.4	MEASURED IN CADD
157	25 OF 31	135+00.00	139+85.00	RTE 231/BROADWAY	RTE 231	RT	14.00	2.00	8.00	4.00	485.00	1.94	53.90	53.90	5.9	1 FT WIDTH FROM TYP. SECTIONS
157	25 OF 31	135+00.00	139+85.00	RTE 231/BROADWAY	RTE 231	LT	14.00	2.00	8.00	4.00	485.00	1.94	53.90	53.90	5.9	1 FT WIDTH FROM TYP. SECTIONS
157	25 OF 31	137+47.74	139+22.88	RTE 231/BROADWAY	RTE 231	LT	14.00	2.00	8.00	4.00	975.20	1.94	108.40	108.40	11.7	AROUND NEW GUARDRAILS
157	25 OF 31	220+22.00	220+41.98	MANN ST	MANN ST	LT/RT	14.00	2.00	8.00	4.00	654.20	1.94	72.70	72.70	7.9	MEASURED IN CADD
157	25 OF 31	225+55.53	225+79.23	VINCENT AVE	VINCENT AVE	LT/RT	14.00	2.00	8.00	4.00	628.00	1.94	69.80	69.80	7.6	MEASURED IN CADD
158	26 OF 31	139+85.00	143+27.91	RTE 231/BROADWAY	RTE 231	RT	14.00	2.00	8.00	4.00	343.00	1.94	38.20	38.20	4.2	1 FT WIDTH FROM TYP. SECTIONS
158	26 OF 31	139+85.00	145+25.00	RTE 231/BROADWAY	RTE 231	LT	14.00	2.00	8.00	4.00	540.00	1.94	60.00	60.00	6.5	1 FT WIDTH FROM TYP. SECTIONS
158	26 OF 31	230+28.00	230+65.13	E GOETZ AVE	E GOETZ AVE	LT/RT	14.00	2.00	8.00	4.00	925.90	1.94	102.90	102.90	11.1	MEASURED IN CADD
158	26 OF 31	235+20.87	235+48.00	MILITARY RD	MILITARY RD	LT/RT	14.00	2.00	8.00	4.00	738.00	1.94	82.00	82.00	8.9	MEASURED IN CADD
158	26 OF 31	240+82.55	241+12.52	HOFFMEISTER AVE	HOFFMEISTER AVE	LT/RT	14.00	2.00	8.00	4.00	2087.00	1.94	231.90	231.90	25.0	MEASURED IN CADD
158	26 OF 31	241+70.92	241+91.34	HOFFMEISTER AVE	HOFFMEISTER AVE	LT/RT	14.00	2.00	8.00	4.00	961.10	1.94	106.80	106.80	11.6	MEASURED IN CADD
159	27 OF 31	145+25.00	150+25.00	RTE 231/BROADWAY	RTE 231	LT	14.00	2.00	8.00	4.00	500.00	1.94	55.60	55.60	6.0	1 FT WIDTH FROM TYP. SECTIONS
160	28 OF 31	150+25.00	155+20.00	RTE 231/BROADWAY	RTE 231	LT	14.00	2.00	8.00	4.00	495.00	1.94	55.00	55.00	6.0	1 FT WIDTH FROM TYP. SECTIONS
160	28 OF 31	245+21.71	245+79.01	WEISS AVE	WEISS AVE	LT/RT	14.00	2.00	8.00	4.00	2123.60	1.94	236.00	236.00	25.5	MEASURED IN CADD
161	29 OF 31	155+20.00	160+60.00	RTE 231/BROADWAY	RTE 231	LT	14.00	2.00	8.00	4.00	540.00	1.94	60.00	60.00	6.5	1 FT WIDTH FROM TYP. SECTIONS
161	29 OF 31	250+21.98	250+56.50	HORN AVE	HORN AVE	LT/RT	14.00	2.00	8.00	4.00	1182.90	1.94	131.50	131.50	14.2	MEASURED IN CADD
162	30 OF 31	160+60.00	165+50.00	RTE 231/BROADWAY	RTE 231	LT	14.00	2.00	8.00	4.00	490.00	1.94	54.50	54.50	5.9	1 FT WIDTH FROM TYP. SECTIONS
162	30 OF 31	255+21.06	255+41.21	WALLER AVE	WALLER AVE	LT/RT	14.00	2.00	8.00	4.00	398.80	1.94	44.40	44.40	4.8	MEASURED IN CADD
162	30 OF 31	260+23.16	260+43.24	KAYSER AVE	KAYSER AVE	LT/RT	14.00	2.00	8.00	4.00	784.40	1.94	87.20	87.20	9.4	MEASURED IN CADD
163	31 OF 31	165+50.00	168+15.00	RTE 231/BROADWAY	RTE 231	LT	14.00	2.00	8.00	4.00	265.00	1.94	29.50	29.50	3.2	1 FT WIDTH FROM TYP. SECTIONS
												TABLE 4 SUBTOTAL	2,380.50	2,380.50	257.8	-
												TABLE 1 SUBTOTAL	2,953.00	2,953.00	324.5	
												TABLE 2 SUBTOTAL	2,747.40	2,747.40	302.1	
												TABLE 3 SUBTOTAL	3,795.70	3,795.70	416.8	
												TABLE 4 SUBTOTAL	2,380.50	2,380.50	257.8	
												QUANTITY FROM DRIVEWAY SUMMARY OF QUANTITIES (SHEET 52 OF 106)	8,568.10	-	-	
												QUANTITY FROM SIDEWALK AND ADA RAMPS SUMMARY OF QUANTITIES (SHEET 68 OF 106)	15,789.00	-	-	
												TOTAL	36,233.70	11,876.60	1301.2	
												PAY TOTAL	36,234.00	11,876.60	(SEE SHEET 35 OF 106)	

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED 7/25/2025

ROUTE	STATE
231	MO
DISTRICT	SHEET NO.
SL	3

COUNTY ST. LOUIS

JOB NO. J6S3631

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION	DATE

IF A SEAL IS PRESENT ON THIS SHEET, IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

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LAYOUT	NS	01/2025
DRAWN	SMC	01/2025
REVIEWED	DJK	01/2025

SUMMARY OF QUANTITIES
SHEET 34 OF 106

COLDMILLING AND ASPHALTIC CONCRETE OVERLAY

SHEET NO.	DRAINAGE PLAN SHEET NO.	STATION FROM	STATION TO	ROADWAY	CENTER LINE	LOCATION	COLD MILLING DEPTH (IN.)	AREA OF COLD MILLING (SQFT)	COLDMILLING BITUMINOUS PAVEMENT FOR REMOVAL OF SURFACING (3 IN. THICK OR LESS) (SQYD)	ASPHALTIC CONCRETE MIXTURE PG 76-22 (SP125CLP MIX) WITH REINFORCING FIBERS (TONS)	MISC. {TACK COAT - LOW-TRACKING OR NON-TRACKING} (GAL)	REMARKS
133	1 OF 31	13+72.50	17+75.00	RTE 231/TELEGRAPH	RTE 231	LT & RT	2.00	27,402.00	3,045.00	333.30	152.30	MEASURED IN CADD
134	2 OF 31	17+75.00	22+75.00	RTE 231/TELEGRAPH	RTE 231	LT & RT	2.00	33,668.50	3,741.00	409.50	187.10	MEASURED IN CADD
135	3 OF 31	22+75.00	28+00.00	RTE 231/TELEGRAPH	RTE 231	LT & RT	2.00	34,951.20	3,884.00	425.10	194.20	MEASURED IN CADD
136	4 OF 31	28+00.00	33+00.00	RTE 231/TELEGRAPH	RTE 231	LT & RT	2.00	32,329.60	3,593.00	393.30	179.70	MEASURED IN CADD
137	5 OF 31	33+00.00	38+00.00	RTE 231/TELEGRAPH	RTE 231	LT & RT	2.00	32,000.10	3,556.00	389.20	177.80	MEASURED IN CADD
138	6 OF 31	38+00.00	43+25.00	RTE 231/TELEGRAPH	RTE 231	LT & RT	2.00	38,795.30	4,311.00	471.90	215.60	MEASURED IN CADD
139	7 OF 31	43+25.00	48+35.00	RTE 231/TELEGRAPH	RTE 231	LT & RT	2.00	41,496.20	4,611.00	504.70	230.60	MEASURED IN CADD
140	8 OF 31	51+66.08	52+88.31	TELEGRAPH RD	TELEGRAPH RD	LT & RT	2.00	4,806.90	535.00	58.60	26.80	MEASURED IN CADD
140	8 OF 31	48+35.00	53+50.00	RTE 231/KINGSTON	RTE 231	LT & RT	2.00	35,865.60	3,986.00	436.30	199.30	MEASURED IN CADD
141	9 OF 31	53+50.00	58+50.00	RTE 231/KINGSTON	RTE 231	LT & RT	2.00	30,552.80	3,395.00	371.60	169.80	MEASURED IN CADD
142	10 OF 31	58+50.00	63+50.00	RTE 231/KINGSTON	RTE 231	LT & RT	2.00	30,871.20	3,431.00	375.60	171.60	MEASURED IN CADD
143	11 OF 31	63+50.00	68+75.00	RTE 231/KINGSTON	RTE 231	LT & RT	2.00	31,852.90	3,540.00	387.50	177.00	MEASURED IN CADD
144	12 OF 31	68+75.00	73+75.00	RTE 231/KINGSTON	RTE 231	LT & RT	2.00	27,493.30	3,055.00	334.40	152.80	MEASURED IN CADD
145	13 OF 31	73+75.00	78+75.00	RTE 231/KINGSTON	RTE 231	LT & RT	2.00	28,267.00	3,141.00	343.80	157.10	MEASURED IN CADD
146	14 OF 31	78+75.00	84+00.00	RTE 231/KINGSTON	RTE 231	LT & RT	2.00	32,708.90	3,635.00	397.90	181.80	MEASURED IN CADD
147	15 OF 31	84+00.00	89+25.00	RTE 231/KINGSTON	RTE 231	LT & RT	2.00	33,111.70	3,680.00	402.80	184.00	MEASURED IN CADD
148	16 OF 31	89+25.00	94+25.00	RTE 231/KINGSTON	RTE 231	LT & RT	2.00	30,705.40	3,412.00	373.50	170.60	MEASURED IN CADD
149	17 OF 31	94+25.00	99+25.00	RTE 231/KINGSTON	RTE 231	LT & RT	2.00	30,567.30	3,397.00	371.80	169.90	MEASURED IN CADD
150	18 OF 31	99+25.00	104+50.00	RTE 231/BROADWAY	RTE 231	LT & RT	2.00	32,690.50	3,633.00	397.70	181.70	MEASURED IN CADD
151	19 OF 31	104+50.00	109+50.00	RTE 231/BROADWAY	RTE 231	LT & RT	2.00	23,321.80	2,592.00	283.70	129.60	MEASURED IN CADD
152	20 OF 31	109+50.00	114+50.00	RTE 231/BROADWAY	RTE 231	LT & RT	2.00	21,873.10	2,431.00	266.10	121.60	MEASURED IN CADD
153	21 OF 31	114+50.00	119+92.00	RTE 231/BROADWAY	RTE 231	LT & RT	2.00	26,402.60	2,934.00	321.20	146.70	MEASURED IN CADD
154	22 OF 31	119+92.00	125+00.00	RTE 231/BROADWAY	RTE 231	LT & RT	2.00	23,591.80	2,622.00	287.00	131.10	MEASURED IN CADD
155	23 OF 31	125+00.00	130+00.00	RTE 231/BROADWAY	RTE 231	LT & RT	2.00	23,403.40	2,601.00	284.70	130.10	MEASURED IN CADD
156	24 OF 31	130+00.00	135+00.00	RTE 231/BROADWAY	RTE 231	LT & RT	2.00	25,720.10	2,858.00	312.80	142.90	MEASURED IN CADD
157	25 OF 31	135+00.00	139+85.00	RTE 231/BROADWAY	RTE 231	LT & RT	2.00	23,542.60	2,616.00	286.40	130.80	MEASURED IN CADD
157	25 OF 31	137+47.74	139+22.88	RTE 231/BROADWAY	RTE 231	LT	2.00	975.20	109.00	12.00	5.50	MEASURED IN CADD
158	26 OF 31	139+85.00	145+25.00	RTE 231/BROADWAY	RTE 231	LT & RT	2.00	37,937.60	4,216.00	461.50	210.80	MEASURED IN CADD
159	27 OF 31	145+25.00	150+25.00	RTE 231/BROADWAY	RTE 231	LT & RT	2.00	25,246.20	2,806.00	307.20	140.30	MEASURED IN CADD
160	28 OF 31	150+25.00	155+20.00	RTE 231/BROADWAY	RTE 231	LT & RT	2.00	23,861.50	2,652.00	290.30	132.60	MEASURED IN CADD
161	29 OF 31	155+20.00	160+60.00	RTE 231/BROADWAY	RTE 231	LT & RT	2.00	24,564.90	2,730.00	298.80	136.50	MEASURED IN CADD
162	30 OF 31	160+60.00	165+50.00	RTE 231/BROADWAY	RTE 231	LT & RT	2.00	22,639.30	2,516.00	275.40	125.80	MEASURED IN CADD
163	31 OF 31	165+50.00	168+15.00	RTE 231/BROADWAY	RTE 231	LT & RT	2.00	16,956.06	1,884.10	206.30	94.30	MEASURED IN CADD
163	31 OF 31			RIVER CITY CASINO BLVD.	RTE 231	LT & RT	2.00	4,599.64	511.10	56.00	25.60	QUANTITY TO BE PLACED AS PER DIRECTION OF THE ENGINEER
								TABLE 1 TOTAL	101,659.20	11,127.90	5083.90	
								QUANTITY FROM FULL DEPTH PAVEMENT SUMMARY OF QUANTITIES (SHEET 34 OF 106)	-	1289.50	-	
								QUANTITY FROM DRIVEWAY SUMMARY OF QUANTITIES (SHEET 52 OF 106)	-	504.60	-	
								TOTAL	101,659.20	12922.00	5,083.90	
								PAY TOTAL	**101,660**	**12,922**	**5,084.00**	

STATE OF MISSOURI
DENNIS J KOSCIELSKI
NUMBER PE-2005000712
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED
7/25/2025

ROUTE	STATE
231	MO
DISTRICT	SHEET NO.
SL	3

COUNTY
ST. LOUIS

JOB NO.
J6S3631

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION	DATE

IF A SEAL IS PRESENT ON THIS SHEET, IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

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600 Washington Ave., Suite 950
St. Louis, Missouri 63101
Professional Engineer 001632
www.hanson-inc.com
314.770.0467

LAYOUT	NS	01/2025
DRAWN	SMC	01/2025
REVIEWED	DJK	01/2025

SUMMARY OF QUANTITIES
SHEET 35 OF 106

CURB

SHEET NO.	SPECIAL CURB SHEET NO.	ROADWAY	CENTER LINE	STATION FROM	STATION TO	LOCATION	LENGTH	* CONCRETE CURB (6 IN HEIGHT AND UNDER) TYPE S	CONCRETE CURB (OVER 6 IN HEIGHT) TYPE S	CURB HEIGHT	MISC. {LINEAR GRADING CLASS 2-MODIFIED}	REMARKS
							(FT)	(LF)	(LF)	(IN)	(STA.)	
467	1 OF 32	RTE 231/TELEGRAPH	RTE 231	13+72.50	14+21.21	LT	48.71	49.00	-	6.00	0.50	ADA DRIVEWAY CUT THROUGH CURB SHALL BE PLACED ON THE BACK OF THE SIDEWALK AS DIRECTED BY THE ENGINEER, CURB NOT SHOWN ON CROSS SECTIONS
467	1 OF 32	RTE 231/TELEGRAPH	RTE 231	14+69.44	16+13.64	LT	141.77	142.00	-	6.00	1.50	ADA RAMP AT FRANRU LN
467	1 OF 32	RTE 231/TELEGRAPH	RTE 231	13+72.58	15+10.48	RT	137.90	138.00	-	6.00	1.40	ADA DRIVEWAY CUT THROUGH
467	1 OF 32	RTE 231/TELEGRAPH	RTE 231	13+72.58	13+96.58	RT	24.00	-	24.00	VARIES	-	ADA DRIVEWAY CUT THROUGH, 9 INCH CURB HEIGHT
467	1 OF 32	RTE 231/TELEGRAPH	RTE 231	15+60.15	15+94.85	RT	34.70	35.00	-	6.00	0.40	ADA DRIVEWAY CUT THROUGH
467	1 OF 32	FRANRU LN	FRANRU LN	10+49.16	10+83.00	LT	33.84	34.00	-	6.00	0.40	SIDE STREET
467	1 OF 32	FRANRU LN	FRANRU LN	10+50.96	10+81.04	RT	32.43	33.00	-	6.00	0.40	ADA RAMP AT FRANRU LN
467	1 OF 32	RTE 231/TELEGRAPH	RTE 231	16+25.61	16+69.95	RT	44.34	45.00	-	6.00	0.50	ADA DRIVEWAY CUT THROUGH
467	1 OF 32	RTE 231/TELEGRAPH	RTE 231	16+15.25	16+74.95	RT	59.70	-	60.00	VARIES	-	ADA DRIVEWAY CUT THROUGH, 9 INCH CURB HEIGHT CURB SHALL BE PLACED ON THE BACK OF THE SIDEWALK AS DIRECTED BY THE ENGINEER, CURB NOT SHOWN ON CROSS SECTIONS
467	1 OF 32	RTE 231/TELEGRAPH	RTE 231	16+90.92	17+22.83	RT	31.91	32.00	-	6.00	0.40	ADA DRIVEWAY CUT THROUGH
467	1 OF 32	RTE 231/TELEGRAPH	RTE 231	16+85.87	17+27.83	RT	41.96	-	42.00	VARIES	-	ADA DRIVEWAY CUT THROUGH, 9 INCH CURB HEIGHT CURB SHALL BE PLACED ON THE BACK OF THE SIDEWALK AS DIRECTED BY THE ENGINEER, CURB NOT SHOWN ON CROSS SECTIONS
467-468	1-2 OF 32	RTE 231/TELEGRAPH	RTE 231	17+45.46	17+88.00	RT	42.54	43.00	-	6.00	0.50	ADA RAMP AT SYLVANWOOD TERRACE
467	1 OF 32	RTE 231/TELEGRAPH	RTE 231	17+38.06	17+71.04	RT	32.98	-	33.00	VARIES	-	ADA DRIVEWAY CUT THROUGH, 9 INCH CURB HEIGHT
467	1 OF 32	RTE 231/TELEGRAPH	RTE 231	16+74.58	17+63.01	LT	88.65	-	89.00	VARIES	-	ADA DRIVEWAY CUT THROUGH, 9 INCH CURB HEIGHT
467	1 OF 32	RTE 231/TELEGRAPH	RTE 231	16+57.74	17+76.07	LT	119.23	120.00	-	6.00	1.20	ADA DRIVEWAY CUT THROUGH
468	2 OF 32	RTE 231/TELEGRAPH	RTE 231	17+76.37	17+88.00	RT	11.63	-	12.00	VARIES		ADA DRIVEWAY CUT THROUGH, 9 INCH CURB HEIGHT CURB SHALL BE PLACED ON THE BACK OF THE SIDEWALK AS DIRECTED BY THE ENGINEER, CURB NOT SHOWN ON CROSS SECTIONS
468	2 OF 32	SYLVANWOOD TERRACE	SYLVANWOOD TERRACE	15+49.89	15+58.49	LT	8.76	9.00	-	6.00	0.10	EXISTING CONCRETE CURB
468	2 OF 32	SYLVANWOOD TERRACE	SYLVANWOOD TERRACE	15+49.89	15+62.91	RT	13.63	14.00	-	6.00	0.20	EXISTING CONCRETE CURB
468	2 OF 32	RTE 231/TELEGRAPH	RTE 231	18+59.90	20+08.51	LT	148.61	149.00	-	6.00	1.50	ADA RAMP
468	2 OF 32	RTE 231/TELEGRAPH	RTE 231	19+68.02	20+08.51	LT	40.49		41.00	VARIES	-	ADA DRIVEWAY CUT THROUGH, 9 INCH CURB HEIGHT
468	2 OF 32	RTE 231/TELEGRAPH	RTE 231	18+61.76	19+42.30	RT	80.54	81.00	-	6.00	0.90	ADA DRIVEWAY CUT THROUGH
468	2 OF 32	RTE 231/TELEGRAPH	RTE 231	18+61.76	19+50.93	RT	89.17	-	90.00	VARIES	-	ADA DRIVEWAY CUT THROUGH, 9 INCH CURB HEIGHT CURB SHALL BE PLACED ON THE BACK OF THE SIDEWALK AS DIRECTED BY THE ENGINEER, CURB NOT SHOWN ON CROSS SECTIONS
468	2 OF 32	RTE 231/TELEGRAPH	RTE 231	19+88.76	20+08.51	RT	19.75	20.00	-	6.00	0.20	ADA RAMP
468	2 OF 32	RTE 231/TELEGRAPH	RTE 231	19+81.74	20+08.51	RT	26.77	-	27.00	VARIES	-	ADA DRIVEWAY CUT THROUGH, 9 INCH CURB HEIGHT
468	2 OF 32	RTE 231/TELEGRAPH	RTE 231	20+33.51	20+49.72	LT	16.21	17.00	-	6.00	0.20	ADA DRIVEWAY CUT THROUGH
468	2 OF 32	RTE 231/TELEGRAPH	RTE 231	20+33.51	20+58.56	LT	25.05	-	26.00	VARIES	-	ADA DRIVEWAY CUT THROUGH, 9 INCH CURB HEIGHT
468	2 OF 32	RTE 231/TELEGRAPH	RTE 231	20+33.51	20+78.57	RT	45.06	46.00	-	6.00	0.50	ADA RAMP AT SYLVIA DR
468	2 OF 32	RTE 231/TELEGRAPH	RTE 231	20+33.51	20+78.57	RT	45.06	-	46.00	VARIES	-	ADA DRIVEWAY CUT THROUGH, 9 INCH CURB HEIGHT
468	2 OF 32	RTE 231/TELEGRAPH	RTE 231	20+84.46	21+42.59	LT	58.13	59.00	-	6.00	0.60	ADA DRIVEWAY CUT THROUGH
468	2 OF 32	RTE 231/TELEGRAPH	RTE 231	20+75.56	21+49.17	LT	73.61	-	74.00	VARIES	-	ADA DRIVEWAY CUT THROUGH, 9 INCH CURB HEIGHT
468	2 OF 32	SYLVIA DR	SYLVIA DR	20+20.00	20+61.00	LT	41.52	42.00	-	6.00	0.50	EXISTING CONCRETE CURB
468	2 OF 32	SYLVIA DR	SYLVIA DR	20+20.00	20+61.00	RT	41.13	42.00	-	6.00	0.50	EXISTING CONCRETE CURB
468	2 OF 32	RTE 231/TELEGRAPH	RTE 231	21+67.91	21+76.19	LT	8.28	9.00	-	6.00	0.10	ADA DRIVEWAY CUT THROUGH
468	2 OF 32	RTE 231/TELEGRAPH	RTE 231	21+61.62	21+80.79	LT	20.07	-	21.00	VARIES	-	ADA DRIVEWAY CUT THROUGH, 9 INCH CURB HEIGHT CURB SHALL BE PLACED ON THE BACK OF THE SIDEWALK AS DIRECTED BY THE ENGINEER, CURB NOT SHOWN ON CROSS SECTIONS
468	2 OF 32	RTE 231/TELEGRAPH	RTE 231	21+42.66	22+20.38	RT	77.72	78.00	-	6.00	0.80	ADA DRIVEWAY CUT THROUGH
468	2 OF 32	RTE 231/TELEGRAPH	RTE 231	21+42.66	21+47.70	RT	5.04	-	6.00	VARIES	-	ADA DRIVEWAY CUT THROUGH, 9 INCH CURB HEIGHT
468	2 OF 32	RTE 231/TELEGRAPH	RTE 231	21+52.37	22+03.81	RT	51.44	-	52.00	VARIES	-	ADA DRIVEWAY CUT THROUGH, 9 INCH CURB HEIGHT
468-469	2-3 OF 32	RTE 231/TELEGRAPH	RTE 231	22+08.90	23+50.85	LT	141.95	142.00		-	1.50	ADA DRIVEWAY CUT THROUGH
					TABLE 1 SUBTOTAL			1,379.00	643.00	-	14.80	-

✳ CONTRACTOR CAN SUBSTITUTE THE TYPE S CURB WITH THE MODIFIED INTEGRAL CURB TYPE B SHOWN ON THE TYPICAL SECTIONS

SUMMARY OF QUANTITIES
SHEET 36 OF 106

LAYOUT	NS	01/2025
DRAWN	SMC	01/2025
REVIEWED	DJK	01/2025

STATE OF MISSOURI
DENNIS J KOSCIELSKI
NUMBER PE-2005000712
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED
7/25/2025

ROUTE	STATE
231	MO
DISTRICT	SHEET NO.
SL	3

COUNTY
ST. LOUIS

JOB NO.
J6S3631

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION	DATE

IF A SEAL IS PRESENT ON THIS SHEET, IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

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CURB (CONT.)

SHEET NO.	SPECIAL CURB SHEET NO.	ROADWAY	CENTER LINE	STATION FROM	STATION TO	LOCATION	LENGTH (FT)	* CONCRETE CURB (6 IN HEIGHT AND UNDER) TYPE S (LF)	CONCRETE CURB (OVER 6 IN HEIGHT) TYPE S (LF)	CURB HEIGHT (IN)	MISC. {LINEAR GRADING CLASS 2-MODIFIED} (STA.)	REMARKS
468-469	2-3 OF 32	RTE 231/TELEGRAPH	RTE 231	21+99.49	23+58.97	LT	159.48	-	160.00	VARIES	-	ADA DRIVEWAY CUT THROUGH, 9 INCH CURB HEIGHT
469	3 OF 32	RTE 231/TELEGRAPH	RTE 231	22+50.39	22+70.05	RT	24.00	24.00	-	6.00	0.20	ADA DRIVEWAY CUT THROUGH
469	3 OF 32	RTE 231/TELEGRAPH	RTE 231	22+91.42	23+00.05	RT	8.63	-	9.00	VARIES	-	ADA DRIVEWAY CUT THROUGH, 9 INCH CURB HEIGHT
469	3 OF 32	RTE 231/TELEGRAPH	RTE 231	22+66.93	23+20.22	RT	53.29	54.00	-	6.00	0.60	ADA DRIVEWAY CUT THROUGH
469	3 OF 32	RTE 231/TELEGRAPH	RTE 231	23+50.22	23+72.74	RT	22.52	23.00	-	6.00	0.30	ADA DRIVEWAY CUT THROUGH
469	3 OF 32	RTE 231/TELEGRAPH	RTE 231	23+41.59	23+56.09	RT	14.50	15.00	-	6.00	0.20	ADA DRIVEWAY CUT THROUGH
469	3 OF 32	RTE 231/TELEGRAPH	RTE 231	24+01.99	24+21.98	RT	24.00	24.00	-	6.00	0.20	ADA DRIVEWAY CUT THROUGH
469	3 OF 32	RTE 231/TELEGRAPH	RTE 231	23+98.81	24+11.48	RT	12.67	13.00	-	6.00	0.20	ADA DRIVEWAY CUT THROUGH
469	3 OF 32	RTE 231/TELEGRAPH	RTE 231	24+04.52	24+58.85	LT	54.33	55.00	-	6.00	0.60	ADA DRIVEWAY CUT THROUGH
469	3 OF 32	RTE 231/TELEGRAPH	RTE 231	23+96.40	24+65.42	LT	69.02	-	70.00	VARIES	-	ADA DRIVEWAY CUT THROUGH, 9 INCH CURB HEIGHT
469	3 OF 32	RTE 231/TELEGRAPH	RTE 231	24+51.98	24+72.42	RT	20.44	21.00	-	6.00	0.30	ADA DRIVEWAY CUT THROUGH
469	3 OF 32	RTE 231/TELEGRAPH	RTE 231	24+48.87	24+61.58	RT	12.71	-	13.00	VARIES	-	ADA DRIVEWAY CUT THROUGH, 9 INCH CURB HEIGHT
469	3 OF 32	RTE 231/TELEGRAPH	RTE 231	24+98.85	25+92.34	LT	93.49	94.00	-	6.00	1.00	ADA DRIVEWAY CUT THROUGH
469	3 OF 32	RTE 231/TELEGRAPH	RTE 231	24+92.93	25+98.51	LT	105.58	-	106.00	VARIES	-	ADA DRIVEWAY CUT THROUGH CURB SHALL BE PLACED ON THE BACK OF THE SIDEWALK AS DIRECTED BY THE ENGINEER, CURB NOT SHOWN ON CROSS SECTIONS
469	3 OF 32	RTE 231/TELEGRAPH	RTE 231	25+02.75	25+25.01	RT	22.26	23.00	-	6.00	0.30	ADA DRIVEWAY CUT THROUGH
469	3 OF 32	RTE 231/TELEGRAPH	RTE 231	24+99.34	25+31.71	RT	32.37	-	33.00	VARIES	-	ADA DRIVEWAY CUT THROUGH, 9 INCH CURB HEIGHT
469	3 OF 32	RTE 231/TELEGRAPH	RTE 231	25+54.83	25+90.27	RT	35.44	36.00	-	6.00	0.40	ADA RAMP AT WILLETTE TERRACE
469	3 OF 32	RTE 231/TELEGRAPH	RTE 231	25+48.13	25+80.87	RT	32.74	-	33.00	VARIES	-	ADA DRIVEWAY CUT THROUGH, 9 INCH CURB HEIGHT
469	3 OF 32	RTE 231/TELEGRAPH	RTE 231	25+85.28	25+90.27	RT	4.99	-	5.00	VARIES	-	ADA DRIVEWAY CUT THROUGH, 9 INCH CURB HEIGHT
469	3 OF 32	WILLETTE TERRACE	WILLETTE TERRACE	25+20.00	25+62.00	LT	42.00	42.00	-	6.00	0.50	EXISTING CONCRETE CURB
469	3 OF 32	WILLETTE TERRACE	WILLETTE TERRACE	25+20.00	25+61.00	RT	41.00	41.00	-	6.00	0.50	EXISTING CONCRETE CURB
469	3 OF 32	RTE 231/TELEGRAPH	RTE 231	26+36.05	27+25.09	LT	89.04	90.00	-	6.00	0.90	ADA DRIVEWAY CUT THROUGH
469	3 OF 32	RTE 231/TELEGRAPH	RTE 231	26+30.24	27+36.87	LT	106.63	-	107.00	VARIES	-	ADA DRIVEWAY CUT THROUGH, 9 INCH CURB HEIGHT CURB SHALL BE PLACED ON THE BACK OF THE SIDEWALK AS DIRECTED BY THE ENGINEER, CURB NOT SHOWN ON CROSS SECTIONS
469	3 OF 32	RTE 231/TELEGRAPH	RTE 231	27+42.87	27+89.17	LT	46.30	-	47.00	VARIES	-	ADA DRIVEWAY CUT THROUGH, 9 INCH CURB HEIGHT
469	3 OF 32	RTE 231/TELEGRAPH	RTE 231	26+50.58	26+85.31	RT	34.73	35.00	-	6.00	0.40	ADA DRIVEWAY CUT THROUGH
469	3 OF 32	RTE 231/TELEGRAPH	RTE 231	27+15.31	27+42.23	RT	26.92	27.00	-	6.00	0.30	ADA DRIVEWAY CUT THROUGH
469-470	3-4 OF 32	RTE 231/TELEGRAPH	RTE 231	27+77.78	28+52.91	RT	75.13	76.00	-	6.00	0.80	ADA RAMP AT BRILLIANT LN
470	4 OF 32	RTE 231/TELEGRAPH	RTE 231	28+16.84	28+52.91	RT	36.07	-	37.00	VARIES	-	ADA DRIVEWAY CUT THROUGH, 9 INCH CURB HEIGHT
470	4 OF 32	RTE 231/TELEGRAPH	RTE 231	28+26.99	29+35.88	LT	108.89	109.00	-	6.00	1.10	ADA DRIVEWAY CUT THROUGH
470	4 OF 32	RTE 231/TELEGRAPH	RTE 231	28+21.58	29+46.02	LT	124.44	-	125.00	VARIES	-	ADA DRIVEWAY CUT THROUGH, 9 INCH CURB HEIGHT CURB SHALL BE PLACED ON THE BACK OF THE SIDEWALK AS DIRECTED BY THE ENGINEER, CURB NOT SHOWN ON CROSS SECTIONS
470	4 OF 32	BRILLIANT LN	BRILLIANT LN	30+52.34	30+56.56	LT	4.22	5.00	-	6.00	0.10	EXISTING CONCRETE CURB
470	4 OF 32	BRILLIANT LN	BRILLIANT LN	30+52.34	30+63.39	RT	11.05	12.00	-	6.00	0.20	EXISTING CONCRETE CURB
470	4 OF 32	RTE 231/TELEGRAPH	RTE 231	29+33.08	29+66.77	RT	33.69	34.00	-	6.00	0.40	ADA DRIVEWAY CUT THROUGH
470	4 OF 32	RTE 231/TELEGRAPH	RTE 231	29+33.08	29+72.64	RT	39.56	-	40.00	VARIES	-	ADA DRIVEWAY CUT THROUGH, 9 INCH CURB HEIGHT
470	4 OF 32	RTE 231/TELEGRAPH	RTE 231	29+93.00	30+33.14	RT	40.14	41.00	-	6.00	0.50	ADA DRIVEWAY CUT THROUGH
470	4 OF 32	RTE 231/TELEGRAPH	RTE 231	29+84.53	30+42.02	RT	57.49	-	58.00	VARIES	-	ADA DRIVEWAY CUT THROUGH, 9 INCH CURB HEIGHT
470	4 OF 32	RTE 231/TELEGRAPH	RTE 231	30+67.03	30+84.99	RT	17.96	-	18.00	VARIES	-	ADA DRIVEWAY CUT THROUGH, 9 INCH CURB HEIGHT CURB SHALL BE PLACED ON THE BACK OF THE SIDEWALK AS DIRECTED BY THE ENGINEER, CURB NOT SHOWN ON CROSS SECTIONS
470	4 OF 32	RTE 231/TELEGRAPH	RTE 231	30+00.23	30+87.74	LT	87.51	88.00	-	6.00	0.90	ADA DRIVEWAY CUT THROUGH
					TABLE 2 SUBTOTAL			982.00	861.00	-	10.90	-

✳ CONTRACTOR CAN SUBSTITUTE THE TYPE S CURB WITH THE MODIFIED INTEGRAL CURB TYPE B SHOWN ON THE TYPICAL SECTIONS

LAYOUT	NS	01/2025
DRAWN	SMC	01/2025
REVIEWED	DJK	01/2025

STATE OF MISSOURI
DENNIS J KOSCIELSKI
NUMBER PE-2005000712
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED
7/25/2025

ROUTE	STATE
231	MO
DISTRICT	SHEET NO.
SL	3

COUNTY
ST. LOUIS

JOB NO.
J6S3631

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION	DATE

IF A SEAL IS PRESENT ON THIS SHEET, IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

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St. Louis, Missouri 63101
Professional Engineer 00163
www.hanson-inc.com
314.770.0467

SUMMARY OF QUANTITIES
SHEET 37 OF 106

CURB (CONT.)

SHEET NO.	SPECIAL CURB SHEET NO.	ROADWAY	CENTER LINE	STATION FROM	STATION TO	LOCATION	LENGTH	* CONCRETE CURB (6 IN HEIGHT AND UNDER) TYPE S	CONCRETE CURB (OVER 6 IN HEIGHT) TYPE S	CURB HEIGHT	MISC. {LINEAR GRADING CLASS 2-MODIFIED}	REMARKS
							(FT)	(LF)	(LF)	(IN)	(STA.)	
470	4 OF 32	RTE 231/TELEGRAPH	RTE 231	29+88.37	29+99.77	LT	11.40	-	12.00	VARIES	-	ADA DRIVEWAY CUT THROUGH, 9 INCH CURB HEIGHT
470	4 OF 32	RTE 231/TELEGRAPH	RTE 231	30+07.42	30+97.80	LT	93.71	-	94.00	VARIES	-	ADA DRIVEWAY CUT THROUGH, 9 INCH CURB HEIGHT CURB SHALL BE PLACED ON THE BACK OF THE SIDEWALK AS DIRECTED BY THE ENGINEER, CURB NOT SHOWN ON CROSS SECTIONS
470	4 OF 32	RTE 231/TELEGRAPH	RTE 231	31+17.23	31+95.79	RT	78.56	79.00	-	6.00	0.80	ADA DRIVEWAY CUT THROUGH
470	4 OF 32	RTE 231/TELEGRAPH	RTE 231	31+08.11	32+04.96	RT	96.85	-	97.00	VARIES	-	ADA DRIVEWAY CUT THROUGH, 9 INCH CURB HEIGHT CURB SHALL BE PLACED ON THE BACK OF THE SIDEWALK AS DIRECTED BY THE ENGINEER, CURB NOT SHOWN ON CROSS SECTIONS
470-471	4-5 OF 32	RTE 231/TELEGRAPH	RTE 231	31+48.54	34+90.80	LT	342.26	343.00	-	6.00	3.50	ADA DRIVEWAY CUT THROUGH
470-471	4-5 OF 32	RTE 231/TELEGRAPH	RTE 231	31+39.54	34+95.80	LT	356.26	-	357.00	VARIES	-	ADA DRIVEWAY CUT THROUGH, 9 INCH CURB HEIGHT CURB SHALL BE PLACED ON THE BACK OF THE SIDEWALK AS DIRECTED BY THE ENGINEER, CURB NOT SHOWN ON CROSS SECTIONS
470	4 OF 32	RTE 231/TELEGRAPH	RTE 231	32+38.67	32+73.08	RT	34.41	35.00	-	6.00	0.40	ADA DRIVEWAY CUT THROUGH
470	4 OF 32	RTE 231/TELEGRAPH	RTE 231	32+30.15	32+81.00	RT	50.85	-	51.00	VARIES	-	ADA DRIVEWAY CUT THROUGH, 9 INCH CURB HEIGHT CURB SHALL BE PLACED ON THE BACK OF THE SIDEWALK AS DIRECTED BY THE ENGINEER, CURB NOT SHOWN ON CROSS SECTIONS
471	5 OF 32	RTE 231/TELEGRAPH	RTE 231	33+13.03	33+43.68	RT	30.65	31.00	-	6.00	0.40	ADA DRIVEWAY CUT THROUGH
471	5 OF 32	RTE 231/TELEGRAPH	RTE 231	33+04.43	33+52.93	RT	48.50	-	49.00	VARIES	-	ADA DRIVEWAY CUT THROUGH, 9 INCH CURB HEIGHT
471	5 OF 32	RTE 231/TELEGRAPH	RTE 231	33+67.47	33+74.52	RT	7.05	-	8.00	VARIES	-	ADA DRIVEWAY CUT THROUGH, 9 INCH CURB HEIGHT
471	5 OF 32	RTE 231/TELEGRAPH	RTE 231	34+41.27	34+94.84	RT	53.57	54.00	-	6.00	0.60	ADA DRIVEWAY CUT THROUGH
471	5 OF 32	RTE 231/TELEGRAPH	RTE 231	34+35.15	34+99.84	RT	64.69	-	65.00	VARIES	-	ADA DRIVEWAY CUT THROUGH, 9 INCH CURB HEIGHT CURB SHALL BE PLACED ON THE BACK OF THE SIDEWALK AS DIRECTED BY THE ENGINEER, CURB NOT SHOWN ON CROSS SECTIONS
471	5 OF 32	RTE 231/TELEGRAPH	RTE 231	35+44.04	35+85.50	RT	41.46	42.00	-	6.00	0.50	ADA DRIVEWAY CUT THROUGH
471	5 OF 32	RTE 231/TELEGRAPH	RTE 231	35+38.13	35+92.36	RT	54.23	-	55.00	VARIES	-	ADA DRIVEWAY CUT THROUGH, 9 INCH CURB HEIGHT CURB SHALL BE PLACED ON THE BACK OF THE SIDEWALK AS DIRECTED BY THE ENGINEER, CURB NOT SHOWN ON CROSS SECTIONS
471	5 OF 32	RTE 231/TELEGRAPH	RTE 231	36+28.05	37+35.23	RT	107.18	108.00	-	6.00	1.10	ADA DRIVEWAY CUT THROUGH
471	5 OF 32	RTE 231/TELEGRAPH	RTE 231	36+22.24	37+43.44	RT	121.20	-	122.00	VARIES	-	ADA DRIVEWAY CUT THROUGH, 9 INCH CURB HEIGHT CURB SHALL BE PLACED ON THE BACK OF THE SIDEWALK AS DIRECTED BY THE ENGINEER, CURB NOT SHOWN ON CROSS SECTIONS
471	5 OF 32	RTE 231/TELEGRAPH	RTE 231	35+49.33	35+60.59	LT	11.26	-	12.00	VARIES	-	ADA DRIVEWAY CUT THROUGH, 9 INCH CURB HEIGHT
471	5 OF 32	RTE 231/TELEGRAPH	RTE 231	36+04.94	36+15.80	LT	13.83	-	14.00	VARIES	-	ADA DRIVEWAY CUT THROUGH, 9 INCH CURB HEIGHT
471	5 OF 32	RTE 231/TELEGRAPH	RTE 231	36+55.42	37+37.61	LT	82.19	83.00	-	6.00	0.90	ADA DRIVEWAY CUT THROUGH
471-472	5-6 OF 32	RTE 231/TELEGRAPH	RTE 231	38+05.32	38+25.80	LT	20.48	21.00	-	6.00	0.30	ADA DRIVEWAY CUT THROUGH
472	6 OF 32	RTE 231/TELEGRAPH	RTE 231	38+08.23	39+87.22	RT	178.99	179.00	-	6.00	1.80	ADA RAMP AT JEFFERSON BARRACKS RD
472	6 OF 32	RTE 231/TELEGRAPH	RTE 231	39+17.26	39+81.72	LT	64.46	65.00	-	6.00	0.70	ADA RAMP AT JEFFERSONIAN DR
472	6 OF 32	RTE 231/TELEGRAPH	RTE 231	39+87.72	39+99.04	LT	13.24	14.00	-	6.00	0.20	ADA RAMP AT JEFFERSONIAN DR
472	6 OF 32	JEFFERSONIAN DR	JEFFERSONIAN DR	35+52.34	36+00.00	LT	50.02	51.00	-	6.00	0.60	EXISTING CONCRETE CURB
472	6 OF 32	JEFFERSONIAN DR	JEFFERSONIAN DR	35+52.84	36+00.00	RT	47.26	48.00	-	6.00	0.50	EXISTING CONCRETE CURB
472	6 OF 32	JEFFERSON BARRACKS RD	JEFFERSON BARRACKS RD	40+75.00	40+99.53	LT	25.21	26.00	-	6.00	0.30	EXISTING CONCRETE CURB CURB SHALL BE PLACED ON THE BACK OF THE SIDEWALK AS DIRECTED BY THE ENGINEER, CURB NOT SHOWN ON CROSS SECTIONS
472	6 OF 32	JEFFERSON BARRACKS RD	JEFFERSON BARRACKS RD	40+75.00	40+94.67	RT	19.77	20.00	-	6.00	0.20	EXISTING CONCRETE CURB
472	6 OF 32	RTE 231/TELEGRAPH	RTE 231	40+51.08	40+69.43	LT	19.99	20.00	-	6.00	0.20	ADA RAMP AT JEFFERSONIAN DR
472	6 OF 32	RTE 231/TELEGRAPH	RTE 231	40+99.86	41+07.18	RT	7.32	8.00	-	6.00	0.10	ADA DRIVEWAY CUT THROUGH
472	6 OF 32	RTE 231/TELEGRAPH	RTE 231	41+52.51	41+70.38	RT	17.87	18.00	-	6.00	0.20	ADA DRIVEWAY CUT THROUGH
472	6 OF 32	RTE 231/TELEGRAPH	RTE 231	42+14.07	42+28.25	RT	14.18	15.00	-	6.00	0.20	ADA DRIVEWAY CUT THROUGH
472	6 OF 32	RTE 231/TELEGRAPH	RTE 231	42+09.10	42+33.30	RT	24.20	25.00	-	6.00	0.30	ADA DRIVEWAY CUT THROUGH, 9 INCH CURB HEIGHT
472-473	6-7 OF 32	RTE 231/TELEGRAPH	RTE 231	40+84.43	41+85.76	LT	101.33	102.00	-	6.00	1.10	ADA DRIVEWAY CUT THROUGH
472-473	6-7 OF 32	RTE 231/TELEGRAPH	RTE 231	42+52.87	43+74.01	LT	121.14	122.00	-	6.00	1.30	ADA DRIVEWAY CUT THROUGH
472-473	6-7 OF 32	RTE 231/TELEGRAPH	RTE 231	42+64.49	44+15.33	RT	150.84	151.00	-	6.00	1.60	ADA DRIVEWAY CUT THROUGH
472-473	6-7 OF 32	RTE 231/TELEGRAPH	RTE 231	42+59.49	44+22.73	RT	163.24	-	164.00	VARIES	-	ADA DRIVEWAY CUT THROUGH, 9 INCH CURB HEIGHT
472-473	6-7 OF 32	RTE 231/TELEGRAPH	RTE 231	44+41.68	44+49.02	RT	7.34	-	8.00	VARIES	-	ADA DRIVEWAY CUT THROUGH, 9 INCH CURB HEIGHT
					TABLE 3 SUBTOTAL			1,660.00	1,108.00	-	17.80	-

✳ CONTRACTOR CAN SUBSTITUTE THE TYPE S CURB WITH THE MODIFIED INTEGRAL CURB TYPE B SHOWN ON THE TYPICAL SECTIONS

SUMMARY OF QUANTITIES
SHEET 38 OF 106

LAYOUT	NS	01/2025
DRAWN	SMC	01/2025
REVIEWED	DJK	01/2025

STATE OF MISSOURI
DENNIS J KOSCIELSKI
NUMBER PE-2005000712
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED 7/25/2025

ROUTE	STATE
231	MO
DISTRICT	SHEET NO.
SL	3

COUNTY ST. LOUIS
JOB NO. J6S3631
CONTRACT ID.
PROJECT NO.
BRIDGE NO.

DESCRIPTION	DATE

IF A SEAL IS PRESENT ON THIS SHEET, IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

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CURB (CONT.)

SHEET NO.	SPECIAL CURB SHEET NO.	ROADWAY	CENTER LINE	STATION FROM	STATION TO	LOCATION	LENGTH (FT)	* CONCRETE CURB (6 IN HEIGHT AND UNDER) TYPE S (LF)	CONCRETE CURB (OVER 6 IN HEIGHT) TYPE S (LF)	CURB HEIGHT (IN)	MISC. {LINEAR GRADING CLASS 2-MODIFIED} (STA.)	REMARKS
473	7 OF 32	RTE 231/TELEGRAPH	RTE 231	44+35.44	44+60.36	LT	24.92	25.00	-	6.00	0.30	ADA DRIVEWAY CUT THROUGH
473	7 OF 32	BETTY JEAN LN	BETTY JEAN LN	45+36.58	45+61.34	LT	28.87	29.00	-	6.00	0.30	EXISTING CONCRETE CURB
473	7 OF 32	BETTY JEAN LN	BETTY JEAN LN	45+51.16	45+64.41	RT	16.12	17.00	-	6.00	0.20	EXISTING CONCRETE CURB
473	7 OF 32	RTE 231/TELEGRAPH	RTE 231	45+88.90	46+73.17	RT	84.27	85.00	-	6.00	0.90	ADA RAMP AT CROSSING
473	7 OF 32	RTE 231/TELEGRAPH	RTE 231	44+95.87	45+09.54	LT	13.67	14.00	-	6.00	0.20	ADA RAMP AT CROSSING
473	7 OF 32	RTE 231/TELEGRAPH	RTE 231	44+87.34	45+18.07	LT	31.48	-	32.00	VARIES	-	ADA DRIVEWAY CUT THROUGH, 9 INCH CURB HEIGHT CURB SHALL BE PLACED ON THE BACK OF THE SIDEWALK AS DIRECTED BY THE ENGINEER, CURB NOT SHOWN ON CROSS SECTIONS
473	7 OF 32	RTE 231/TELEGRAPH	RTE 231	45+40.93	45+45.32	LT	4.39	5.00	-	6.00	0.10	ADA RAMP AT CROSSING
473	7 OF 32	RTE 231/TELEGRAPH	RTE 231	45+32.31	45+53.36	LT	21.69	-	22.00	VARIES	-	ADA DRIVEWAY CUT THROUGH, 9 INCH CURB HEIGHT
473	7 OF 32	RTE 231/TELEGRAPH	RTE 231	45+89.99	46+67.70	LT	77.71	78.00	-	6.00	0.80	ADA RAMP AT LAREDA AVE CURB SHALL BE PLACED ON THE BACK OF THE SIDEWALK AS DIRECTED BY THE ENGINEER, CURB NOT SHOWN ON CROSS SECTIONS
473	7 OF 32	RTE 231/TELEGRAPH	RTE 231	45+83.87	46+43.46	RT	81.41	-	82.00	VARIES	-	ADA RAMP AT LAREDA AVE
473	7 OF 32	RTE 231/TELEGRAPH	RTE 231	46+88.17	47+69.20	RT	81.41	82.00	-	6.00	0.90	ADA RAMP AT LAREDA AVE CURB SHALL BE PLACED ON THE BACK OF THE SIDEWALK AS DIRECTED BY THE ENGINEER, CURB NOT SHOWN ON CROSS SECTIONS
473	7 OF 32	LAREDO AVE	LAREDO AVE	55+46.76	55+62.08	LT	16.40	17.00	-	6.00	0.20	EXISTING CONCRETE CURB
473	7 OF 32	LAREDO AVE	LAREDO AVE	55+46.76	55+59.96	RT	13.41	14.00	-	6.00	0.20	EXISTING CONCRETE CURB
473-474	7-8 OF 32	RTE 231/TELEGRAPH	RTE 231	48+33.73	50+37.78	LT	204.05	205.00	-	6.00	2.10	ADA RAMP AT SIGSBEE AVE
474	8 OF 32	RTE 231/KINGSTON	RTE 231	48+25.23	48+40.64	RT	15.41	16.00	-	6.00	0.20	ADA RAMP AT SIGSBEE AVE
474	8 OF 32	RTE 231/KINGSTON	RTE 231	48+80.20	50+58.28	RT	178.08	179.00	-	6.00	1.80	ADA RAMP AT SIGSBEE AVE
474	8 OF 32	RTE 231/KINGSTON	RTE 231	48+73.70	50+39.55	RT	165.85	-	166.00	VARIES	-	ADA DRIVEWAY CUT THROUGH, 9 INCH CURB HEIGHT CURB SHALL BE PLACED ON THE BACK OF THE SIDEWALK AS DIRECTED BY THE ENGINEER, CURB NOT SHOWN ON CROSS SECTIONS
474	8 OF 32	RTE 231/KINGSTON	RTE 231	50+43.80	50+58.20	RT	14.40	-	15.00	VARIES	-	ADA DRIVEWAY CUT THROUGH, 9 INCH CURB HEIGHT CURB SHALL BE PLACED ON THE BACK OF THE SIDEWALK AS DIRECTED BY THE ENGINEER, CURB NOT SHOWN ON CROSS SECTIONS
474	8 OF 32	SIGSBEE AVE	SIGSBEE AVE	60+63.07	60+85.93	LT	23.52	24.00	-	6.00	0.30	EXISTING CONCRETE CURB
474	8 OF 32	SIGSBEE AVE	SIGSBEE AVE	60+63.07	60+74.87	RT	13.69	14.00	-	6.00	0.20	EXISTING CONCRETE CURB
474	8 OF 32	SIGSBEE AVE	SIGSBEE AVE	61+67.24	61+91.23	LT	25.47	26.00	-	6.00	0.30	EXISTING CONCRETE CURB
474	8 OF 32	SIGSBEE AVE	SIGSBEE AVE	61+58.10	61+91.23	RT	33.35	34.00	-	6.00	0.40	EXISTING CONCRETE CURB
474	8 OF 32	RTE 231/KINGSTON	RTE 231	51+10.79	51+28.93	LT	18.14	19.00	-	6.00	0.20	ADA DRIVEWAY CUT THROUGH
474	8 OF 32	RTE 231/KINGSTON	RTE 231	51+41.26	52+87.30	RT	146.04	147.00	-	6.00	1.50	ADA DRIVEWAY CUT THROUGH
474	8 OF 32	RTE 231/KINGSTON	RTE 231	51+65.06	51+99.02	LT	33.96	34.00	-	6.00	0.40	ADA DRIVEWAY CUT THROUGH
474	8 OF 32	RTE 231/KINGSTON	RTE 231	52+39.58	52+62.36	LT	30.57	31.00	-	6.00	0.40	ADA RAMP AT ATLAS DR
474	8 OF 32	ATLAS DR	ATLAS DR	65+50.28	65+59.63	LT	9.35	10.00	-	6.00	0.10	TIE IN TO EXISTING ON ATLAS DR
474	8 OF 32	ATLAS DR	ATLAS DR	65+55.77	65+59.64	RT	3.87	4.00	-	6.00	0.10	EXISTING CONCRETE CURB
474	8 OF 32	RTE 231/KINGSTON	RTE 231	52+93.87	53+10.99	LT	26.32	27.00	-	6.00	0.30	EXISTING CONCRETE CURB
474-475	8-9 OF 32	RTE 231/KINGSTON	RTE 231	53+15.16	53+80.42	RT	65.26	66.00	-	6.00	0.70	ADA DRIVEWAY CUT THROUGH
475	9 OF 32	RTE 231/KINGSTON	RTE 231	54+09.60	54+68.86	RT	59.26	60.00	-	6.00	0.60	ADA DRIVEWAY CUT THROUGH
475	9 OF 32	RTE 231/KINGSTON	RTE 231	54+97.46	55+44.97	RT	47.51	48.00	-	6.00	0.50	ADA DRIVEWAY CUT THROUGH
475	9 OF 32	RTE 231/KINGSTON	RTE 231	55+71.54	56+04.60	RT	33.06	34.00	-	6.00	0.40	ADA RAMP AT SHETLAND DR
475	9 OF 32	RTE 231/KINGSTON	RTE 231	57+64.92	57+75.19	LT	10.44	11.00	-	6.00	0.20	ADA RAMP AT SHETLAND DR
475	9 OF 32	SHETLAND DR	SHETLAND DR	70+49.93	70+53.00	LT	3.07	4.00	-	6.00	0.10	EXISTING CONCRETE CURB
475	9 OF 32	SHETLAND DR	SHETLAND DR	70+49.93	70+53.00	RT	3.07	4.00	-	6.00	0.10	EXISTING CONCRETE CURB
475	9 OF 32	RTE 231/KINGSTON	RTE 231	56+59.89	56+85.45	RT	25.56	26.00	-	6.00	0.30	ADA DRIVEWAY CUT THROUGH
475	9 OF 32	RTE 231/KINGSTON	RTE 231	57+12.47	57+26.92	RT	14.45	15.00	-	6.00	0.20	ADA DRIVEWAY CUT THROUGH
					TABLE 4 SUBTOTAL			1,404.00	317.00	-	15.50	-

✳ CONTRACTOR CAN SUBSTITUTE THE TYPE S CURB WITH THE MODIFIED INTEGRAL CURB TYPE B SHOWN ON THE TYPICAL SECTIONS

SUMMARY OF QUANTITIES
SHEET 39 OF 106

LAYOUT	NS	01/2025
DRAWN	SMC	01/2025
REVIEWED	DJK	01/2025

STATE OF MISSOURI
DENNIS J KOSCIELSKI
NUMBER PE-2005000712
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED 7/25/2025

ROUTE	STATE
231	MO
DISTRICT	SHEET NO.
SL	3

COUNTY ST. LOUIS
JOB NO. J6S3631
CONTRACT ID.
PROJECT NO.
BRIDGE NO.

DESCRIPTION	DATE

IF A SEAL IS PRESENT ON THIS SHEET, IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

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CURB (CONT.)

SHEET NO.	SPECIAL CURB SHEET NO.	ROADWAY	CENTER LINE	STATION FROM	STATION TO	LOCATION	LENGTH	* CONCRETE CURB (6 IN HEIGHT AND UNDER) TYPE S	CONCRETE CURB (OVER 6 IN HEIGHT) TYPE S	CURB HEIGHT	MISC. {LINEAR GRADING CLASS 2-MODIFIED}	REMARKS
							(FT)	(LF)	(LF)	(IN)	(STA.)	
475	9 OF 32	RTE 231/KINGSTON	RTE 231	57+52.95	57+66.91	RT	13.96	14.00	-	6.00	0.20	ADA DRIVEWAY CUT THROUGH
475	9 OF 32	RTE 231/KINGSTON	RTE 231	57+93.08	58+07.20	RT	14.12	15.00	-	6.00	0.20	ADA DRIVEWAY CUT THROUGH
475	9 OF 32	GENEVA DR	GENEVA DR	75+46.70	75+51.20	LT	4.50	5.00	-	6.00	0.10	EXISTING CONCRETE CURB
475	9 OF 32	GENEVA DR	GENEVA DR	75+47.07	75+51.57	RT	4.50	5.00	-	6.00	0.10	EXISTING CONCRETE CURB
475-476	9-10 OF 32	RTE 231/KINGSTON	RTE 231	58+33.24	58+76.07	RT	42.83	43.00	-	6.00	0.50	ADA DRIVEWAY CUT THROUGH
476	10 OF 32	RTE 231/KINGSTON	RTE 231	59+00.95	59+14.90	RT	13.95	14.00	-	6.00	0.20	ADA RAMP AT TERREL DR
476	10 OF 32	RTE 231/KINGSTON	RTE 231	59+40.24	59+53.74	RT	13.50	14.00	-	6.00	0.20	ADA RAMP AT TERREL DR
476	10 OF 32	RTE 231/KINGSTON	RTE 231	59+80.47	59+92.86	RT	12.39	13.00	-	6.00	0.20	ADA RAMP AT TERREL DR
476	10 OF 32	RTE 231/KINGSTON	RTE 231	60+26.52	60+40.40	RT	13.88	14.00	-	6.00	0.20	ADA RAMP AT TERREL DR
476	10 OF 32	RTE 231/KINGSTON	RTE 231	60+67.23	61+31.51	RT	64.28	65.00	-	6.00	0.70	ADA RAMP AT TERREL DR
476	10 OF 32	TERREL DR	TERREL DR	80+51.77	80+55.95	LT	4.18	5.00	-	6.00	0.10	EXISTING CONCRETE CURB
476	10 OF 32	TERREL DR	TERREL DR	80+51.77	80+56.32	RT	4.55	5.00	-	6.00	0.10	EXISTING CONCRETE CURB
476-477	10-11 OF 32	RTE 231/KINGSTON	RTE 231	61+67.01	66+51.09	RT	484.08	485.00	-	6.00	4.90	ADA DRIVEWAY CUT THROUGH
476-477	10-11 OF 32	RTE 231/KINGSTON	RTE 231	64+54.98	64+64.60	RT	9.62	10.00	-	VARIES	0.10	ADA DRIVEWAY CUT THROUGH, 9 INCH CURB HEIGHT
476-477	10-11 OF 32	RTE 231/KINGSTON	RTE 231	65+91.44	66+35.25	RT	43.81	44.00	-	VARIES	0.50	ADA DRIVEWAY CUT THROUGH, 9 INCH CURB HEIGHT
476-477	10-11 OF 32	RTE 231/KINGSTON	RTE 231	66+40.25	66+59.72	RT	19.47	20.00	-	VARIES	0.20	ADA DRIVEWAY CUT THROUGH, 9 INCH CURB HEIGHT
477	11 OF 32	RTE 231/KINGSTON	RTE 231	64+50.48	64+71.36	LT	35.45	36.00	-	6.00	0.40	EXISTING SIDEWALK
477	11 OF 32	TACOMA DR	TACOMA DR	85+49.89	85+58.57	LT	8.68	9.00	-	6.00	0.10	EXISTING CONCRETE CURB
477	11 OF 32	TACOMA DR	TACOMA DR	85+48.42	85+58.57	RT	10.15	11.00	-	6.00	0.20	EXISTING CONCRETE CURB
477	11 OF 32	RTE 231/KINGSTON	RTE 231	65+11.51	65+27.14	LT	30.45	31.00	-	6.00	0.40	EXISTING SIDEWALK
477	11 OF 32	RTE 231/KINGSTON	RTE 231	65+58.21	65+73.45	LT	15.24	-	16.00	VARIES	-	ADA DRIVEWAY CUT THROUGH, 9 INCH CURB HEIGHT
477	11 OF 32	RTE 231/KINGSTON	RTE 231	65+77.45	66+03.19	LT	25.74	-	26.00	VARIES	-	ADA DRIVEWAY CUT THROUGH, 9 INCH CURB HEIGHT
477	11 OF 32	RTE 231/KINGSTON	RTE 231	65+91.44	66+18.27	RT	27.05	-	28.00	VARIES	-	ADA DRIVEWAY CUT THROUGH, 9 INCH CURB HEIGHT
477	11 OF 32	RTE 231/KINGSTON	RTE 231	67+24.47	68+21.02	RT	96.55	97.00	-	6.00	1.00	ADA DRIVEWAY CUT THROUGH
477	11 OF 32	RTE 231/KINGSTON	RTE 231	67+16.75	67+85.45	RT	68.70	-	69.00	VARIES	-	ADA DRIVEWAY CUT THROUGH, 9 INCH CURB HEIGHT CURB SHALL BE PLACED ON THE BACK OF THE SIDEWALK AS DIRECTED BY THE ENGINEER, CURB NOT SHOWN ON CROSS SECTIONS
477	11 OF 32	RTE 231/KINGSTON	RTE 231	67+90.45	68+29.06	RT	38.61	-	39.00	VARIES	-	ADA DRIVEWAY CUT THROUGH, 9 INCH CURB HEIGHT CURB SHALL BE PLACED ON THE BACK OF THE SIDEWALK AS DIRECTED BY THE ENGINEER, CURB NOT SHOWN ON CROSS SECTIONS
477	11 OF 32	RTE 231/KINGSTON	RTE 231	67+13.02	67+48.86	LT	37.96	38.00	-	6.00	0.40	ADA RAMP AT SOUTHWARK LN
477	11 OF 32	RTE 231/KINGSTON	RTE 231	67+11.61	67+41.50	LT	31.39	-	32.00	VARIES	-	ADA DRIVEWAY CUT THROUGH, 9 INCH CURB HEIGHT
477	11 OF 32	RTE 231/KINGSTON	RTE 231	67+14.37	67+41.50	LT	28.64	-	29.00	VARIES	-	ADA DRIVEWAY CUT THROUGH, 9 INCH CURB HEIGHT
477	11 OF 32	SOUTHWARK LN	SOUTHWARK LN	90+44.33	90+50.93	LT	6.71	7.00	-	6.00	0.10	EXISTING CONCRETE CURB
477	11 OF 32	SOUTHWARK LN	SOUTHWARK LN	90+43.21	90+49.49	RT	6.33	7.00	-	6.00	0.10	EXISTING CONCRETE CURB
477	11 OF 32	RTE 231/KINGSTON	RTE 231	67+86.09	68+21.34	LT	37.33	38.00	-	6.00	0.40	ADA RAMP AT SOUTHWARK LN
477	11 OF 32	RTE 231/KINGSTON	RTE 231	67+93.30	68+22.67	LT	30.76	-	31.00	VARIES	-	ADA DRIVEWAY CUT THROUGH, 9 INCH CURB HEIGHT
477	11 OF 32	RTE 231/KINGSTON	RTE 231	67+93.30	68+20.00	LT	28.03	-	29.00	VARIES	-	ADA DRIVEWAY CUT THROUGH, 9 INCH CURB HEIGHT
478	12 OF 32	RTE 231/KINGSTON	RTE 231	68+80.43	69+81.66	RT	101.23	102.00	-	6.00	1.10	ADA DRIVEWAY CUT THROUGH
478	12 OF 32	RTE 231/KINGSTON	RTE 231	68+72.86	69+03.74	RT	30.88	-	31.00	VARIES	-	ADA DRIVEWAY CUT THROUGH, 9 INCH CURB HEIGHT CURB SHALL BE PLACED ON THE BACK OF THE SIDEWALK AS DIRECTED BY THE ENGINEER, CURB NOT SHOWN ON CROSS SECTIONS
478	12 OF 32	RTE 231/KINGSTON	RTE 231	69+08.74	69+30.17	RT	21.43	-	22.00	VARIES	-	ADA DRIVEWAY CUT THROUGH, 9 INCH CURB HEIGHT CURB SHALL BE PLACED ON THE BACK OF THE SIDEWALK AS DIRECTED BY THE ENGINEER, CURB NOT SHOWN ON CROSS SECTIONS
478	12 OF 32	RTE 231/KINGSTON	RTE 231	69+35.17	69+56.59	RT	21.42	-	22.00	VARIES	-	ADA DRIVEWAY CUT THROUGH, 9 INCH CURB HEIGHT
478	12 OF 32	RTE 231/KINGSTON	RTE 231	69+61.59	69+89.22	RT	27.63	-	28.00	VARIES	-	ADA DRIVEWAY CUT THROUGH, 9 INCH CURB HEIGHT CURB SHALL BE PLACED ON THE BACK OF THE SIDEWALK AS DIRECTED BY THE ENGINEER, CURB NOT SHOWN ON CROSS SECTIONS
478	12 OF 32	RTE 231/KINGSTON	RTE 231	69+59.25	69+78.33	LT	19.08	-	20.00	VARIES	-	ADA DRIVEWAY CUT THROUGH, 9 INCH CURB HEIGHT CURB SHALL BE PLACED ON THE BACK OF THE SIDEWALK AS DIRECTED BY THE ENGINEER, CURB NOT SHOWN ON CROSS SECTIONS
478	12 OF 32	EARLSFIELD LN	EARLSFIELD LN	95+36.92	95+42.50	LT	6.55	7.00	-	6.00	0.10	EXISTING CONCRETE CURB
478	12 OF 32	EARLSFIELD LN	EARLSFIELD LN	95+35.49	95+42.69	RT	8.50	9.00	-	6.00	0.10	EXISTING CONCRETE CURB
478	12 OF 32	RTE 231/KINGSTON	RTE 231	70+58.38	70+76.62	LT	18.24	-	19.00	VARIES	-	ADA DRIVEWAY CUT THROUGH, 9 INCH CURB HEIGHT
478	12 OF 32	RTE 231/KINGSTON	RTE 231	70+43.49	71+11.69	RT	68.20	69.00	-	6.00	0.70	ADA CROSSWALK
					TABLE 5 SUBTOTAL			1,232.00	441.00	-	13.60	-

✳ CONTRACTOR CAN SUBSTITUTE THE TYPE S CURB WITH THE MODIFIED INTEGRAL CURB TYPE B SHOWN ON THE TYPICAL SECTIONS

LAYOUT	NS	01/2025
DRAWN	SMC	01/2025
REVIEWED	DJK	01/2025

STATE OF MISSOURI
DENNIS J KOSCIELSKI
NUMBER PE-2005000712
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED: 7/25/2025

ROUTE	STATE
231	MO

DISTRICT	SHEET NO.
SL	3

COUNTY: ST. LOUIS

JOB NO.: J6S3631

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION	DATE

IF A SEAL IS PRESENT ON THIS SHEET, IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

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600 Washington Ave., Suite 950
St. Louis, Missouri 63101
Professional Engineer 001632
www.hanson-inc.com
314.770.0467

SUMMARY OF QUANTITIES
SHEET 40 OF 106

CURB (CONT.)

SHEET NO.	SPECIAL CURB SHEET NO.	ROADWAY	CENTER LINE	STATION FROM	STATION TO	LOCATION	LENGTH (FT)	* CONCRETE CURB (6 IN HEIGHT AND UNDER) TYPE S (LF)	CONCRETE CURB (OVER 6 IN HEIGHT) TYPE S (LF)	CURB HEIGHT (IN)	MISC. {LINEAR GRADING CLASS 2-MODIFIED} (STA.)	REMARKS
478	12 OF 32	RTE 231/KINGSTON	RTE 231	70+34.86	70+55.13	RT	20.27	-	21.00	VARIES	-	ADA DRIVEWAY CUT THROUGH, 9 INCH CURB HEIGHT CURB SHALL BE PLACED ON THE BACK OF THE SIDEWALK AS DIRECTED BY THE ENGINEER, CURB NOT SHOWN ON CROSS SECTIONS
478	12 OF 32	RTE 231/KINGSTON	RTE 231	70+60.21	70+78.66	RT	18.45	-	19.00	VARIES	-	ADA DRIVEWAY CUT THROUGH, 9 INCH CURB HEIGHT CURB SHALL BE PLACED ON THE BACK OF THE SIDEWALK AS DIRECTED BY THE ENGINEER, CURB NOT SHOWN ON CROSS SECTIONS
478	12 OF 32	RTE 231/KINGSTON	RTE 231	70+83.66	71+11.69	RT	28.03	-	29.00	VARIES	-	ADA DRIVEWAY CUT THROUGH, 9 INCH CURB HEIGHT CURB SHALL BE PLACED ON THE BACK OF THE SIDEWALK AS DIRECTED BY THE ENGINEER, CURB NOT SHOWN ON CROSS SECTIONS
478	12 OF 32	RTE 231/KINGSTON	RTE 231	71+36.69	72+51.00	RT	114.31	115.00	-	6.00	1.20	ADA DRIVEWAY CUT THROUGH CURB SHALL BE PLACED ON THE BACK OF THE SIDEWALK AS DIRECTED BY THE ENGINEER, CURB NOT SHOWN ON CROSS SECTIONS
478	12 OF 32	RTE 231/KINGSTON	RTE 231	71+36.69	71+64.17	RT	27.48	-	28.00	VARIES	-	ADA DRIVEWAY CUT THROUGH, 9 INCH CURB HEIGHT CURB SHALL BE PLACED ON THE BACK OF THE SIDEWALK AS DIRECTED BY THE ENGINEER, CURB NOT SHOWN ON CROSS SECTIONS
478	12 OF 32	RTE 231/KINGSTON	RTE 231	71+69.17	71+98.17	RT	29.00	-	29.00	VARIES	-	ADA DRIVEWAY CUT THROUGH, 9 INCH CURB HEIGHT CURB SHALL BE PLACED ON THE BACK OF THE SIDEWALK AS DIRECTED BY THE ENGINEER, CURB NOT SHOWN ON CROSS SECTIONS
478	12 OF 32	RTE 231/KINGSTON	RTE 231	72+03.17	72+37.24	RT	34.07	-	35.00	VARIES	-	ADA DRIVEWAY CUT THROUGH, 9 INCH CURB HEIGHT
478	12 OF 32	RTE 231/KINGSTON	RTE 231	72+42.24	72+59.04	RT	16.80	-	17.00	VARIES	-	ADA DRIVEWAY CUT THROUGH, 9 INCH CURB HEIGHT
478	12 OF 32	RTE 231/KINGSTON	RTE 231	72+28.32	72+50.09	LT	21.77	-	22.00	VARIES	-	ADA AT SOUTHHAMPTON, 9 INCH CURB HEIGHT CURB SHALL BE PLACED ON THE BACK OF THE SIDEWALK AS DIRECTED BY THE ENGINEER, CURB NOT SHOWN ON CROSS SECTIONS
478	12 OF 32	SOUTHAMPTON DR	SOUTHAMPTON DR	100+37.75	100+49.05	LT	12.40	13.00	-	6.00	0.20	EXISTING CONCRETE CURB
478	12 OF 32	SOUTHAMPTON DR	SOUTHAMPTON DR	100+36.66	100+49.05	RT	13.49	14.00	-	6.00	0.20	EXISTING CONCRETE CURB
478-479	12-13 OF 32	RTE 231/KINGSTON	RTE 231	73+01.71	73+95.74	RT	94.03	95.00	-	6.00	1.00	ADA DRIVEWAY CUT THROUGH
478	12 OF 32	RTE 231/KINGSTON	RTE 231	72+93.37	73+31.09	RT	37.72	-	38.00	VARIES	-	ADA DRIVEWAY CUT THROUGH, 9 INCH CURB HEIGHT CURB SHALL BE PLACED ON THE BACK OF THE SIDEWALK AS DIRECTED BY THE ENGINEER, CURB NOT SHOWN ON CROSS SECTIONS
479	13 OF 32	RTE 231/KINGSTON	RTE 231	73+36.09	74+04.37	RT	68.28	-	69.00	VARIES	-	ADA DRIVEWAY CUT THROUGH, 9 INCH CURB HEIGHT CURB SHALL BE PLACED ON THE BACK OF THE SIDEWALK AS DIRECTED BY THE ENGINEER, CURB NOT SHOWN ON CROSS SECTIONS
479	13 OF 32	RTE 231/KINGSTON	RTE 231	74+50.70	75+14.81	RT	64.11	65.00	-	6.00	0.70	ADA DRIVEWAY CUT THROUGH
479	13 OF 32	RTE 231/KINGSTON	RTE 231	74+42.07	74+69.84	RT	27.77	-	28.00	VARIES	-	ADA DRIVEWAY CUT THROUGH, 9 INCH CURB HEIGHT CURB SHALL BE PLACED ON THE BACK OF THE SIDEWALK AS DIRECTED BY THE ENGINEER, CURB NOT SHOWN ON CROSS SECTIONS
479	13 OF 32	RTE 231/KINGSTON	RTE 231	74+74.84	75+23.44	RT	48.60	-	49.00	VARIES	-	ADA DRIVEWAY CUT THROUGH, 9 INCH CURB HEIGHT CURB SHALL BE PLACED ON THE BACK OF THE SIDEWALK AS DIRECTED BY THE ENGINEER, CURB NOT SHOWN ON CROSS SECTIONS
479	13 OF 32	WOOLWICH LN	WOOLWICH LN	105+37.44	105+55.19	LT	20.23	21.00	-	6.00	0.30	EXISTING CONCRETE CURB
479	13 OF 32	WOOLWICH LN	WOOLWICH LN	105+36.61	105+55.17	RT	20.86	21.00	-	6.00	0.30	EXISTING CONCRETE CURB
479-480	13-14 OF 32	RTE 231/KINGSTON	RTE 231	75+70.33	78+89.86	RT	319.53	320.00	-	6.00	3.20	ADA DRIVEWAY CUT THROUGH
479	13 OF 32	RTE 231/KINGSTON	RTE 231	75+61.70	76+09.83	RT	48.13	-	49.00	VARIES	-	ADA DRIVEWAY CUT THROUGH, 9 INCH CURB HEIGHT CURB SHALL BE PLACED ON THE BACK OF THE SIDEWALK AS DIRECTED BY THE ENGINEER, CURB NOT SHOWN ON CROSS SECTIONS
479	13 OF 32	RTE 231/KINGSTON	RTE 231	76+14.83	77+28.07	RT	113.24	-	114.00	VARIES	-	ADA DRIVEWAY CUT THROUGH, 9 INCH CURB HEIGHT CURB SHALL BE PLACED ON THE BACK OF THE SIDEWALK AS DIRECTED BY THE ENGINEER, CURB NOT SHOWN ON CROSS SECTIONS
479	13 OF 32	RTE 231/KINGSTON	RTE 231	77+33.07	78+74.97	RT	141.90	-	142.00	VARIES	-	ADA DRIVEWAY CUT THROUGH, 9 INCH CURB HEIGHT CURB SHALL BE PLACED ON THE BACK OF THE SIDEWALK AS DIRECTED BY THE ENGINEER, CURB NOT SHOWN ON CROSS SECTIONS
479-480	13-14 OF 32	RTE 231/KINGSTON	RTE 231	78+79.96	78+98.49	RT	18.53	-	19.00	VARIES	-	ADA DRIVEWAY CUT THROUGH, 9 INCH CURB HEIGHT CURB SHALL BE PLACED ON THE BACK OF THE SIDEWALK AS DIRECTED BY THE ENGINEER, CURB NOT SHOWN ON CROSS SECTIONS
479	13 OF 32	PENTONVILLE DR	PENTONVILLE DR	110+37.10	110+59.34	LT	23.62	24.00	-	6.00	0.30	EXISTING CONCRETE CURB
479	13 OF 32	PENTONVILLE DR	PENTONVILLE DR	110+36.30	110+59.33	RT	26.19	27.00	-	6.00	0.30	EXISTING CONCRETE CURB
480	14 OF 32	RTE 231/KINGSTON	RTE 231	79+66.71	80+54.90	RT	88.61	89.00	-	6.00	0.90	ADA DRIVEWAY CUT THROUGH
480	14 OF 32	RTE 231/KINGSTON	RTE 231	79+66.71	79+84.01	RT	17.39	-	18.00	VARIES	-	ADA DRIVEWAY CUT THROUGH, 9 INCH CURB HEIGHT
480	14 OF 32	RTE 231/KINGSTON	RTE 231	79+88.98	80+63.07	RT	74.69	-	75.00	VARIES	-	ADA DRIVEWAY CUT THROUGH, 9 INCH CURB HEIGHT CURB SHALL BE PLACED ON THE BACK OF THE SIDEWALK AS DIRECTED BY THE ENGINEER, CURB NOT SHOWN ON CROSS SECTIONS
480	14 OF 32	WALWORTH DR	WALWORTH DR	115+37.31	115+57.38	LT	21.29	22.00	-	6.00	0.30	EXISTING CONCRETE CURB
480	14 OF 32	WALWORTH DR	WALWORTH DR	115+36.66	115+57.37	RT	23.21	24.00	-	6.00	0.30	EXISTING CONCRETE CURB
480	14 OF 32	RTE 231/KINGSTON	RTE 231	81+11.97	82+22.04	RT	110.07	111.00	-	6.00	1.20	ADA DRIVEWAY CUT THROUGH
					TABLE 6 SUBTOTAL			961.00	801.00	-	10.40	-

✳ CONTRACTOR CAN SUBSTITUTE THE TYPE S CURB WITH THE MODIFIED INTEGRAL CURB TYPE B SHOWN ON THE TYPICAL SECTIONS

LAYOUT	NS	01/2025
DRAWN	SMC	01/2025
REVIEWED	DJK	01/2025

STATE OF MISSOURI
DENNIS J KOSCIELSKI
NUMBER PE-2005000712
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED
7/25/2025

ROUTE	STATE
231	MO
DISTRICT	SHEET NO.
SL	3

COUNTY
ST. LOUIS

JOB NO.
J6S3631

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION	DATE

IF A SEAL IS PRESENT ON THIS SHEET, IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

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Professional Engineer 001632
www.hansonpros.com
314.770.0467

SUMMARY OF QUANTITIES
SHEET 41 OF 106

CURB (CONT.)

SHEET NO.	SPECIAL CURB SHEET NO.	ROADWAY	CENTER LINE	STATION FROM	STATION TO	LOCATION	LENGTH	* CONCRETE CURB (6 IN HEIGHT AND UNDER) TYPE S	CONCRETE CURB (OVER 6 IN HEIGHT) TYPE S	CURB HEIGHT	MISC. {LINEAR GRADING CLASS 2-MODIFIED}	REMARKS
							(FT)	(LF)	(LF)	(IN)	(STA.)	
480	14 OF 32	RTE 231/KINGSTON	RTE 231	81+03.71	82+31.08	RT	127.37	-	128.00	VARIES	-	ADA DRIVEWAY CUT THROUGH, 9 INCH CURB HEIGHT
480	14 OF 32	RTE 231/KINGSTON	RTE 231	81+47.12	83+22.87	LT	176.07	-	177.00	VARIES	-	ADA CUT THROUGH AT LAMBETH LN, 9 INCH CURB HEIGHTCURB SHALL BE PLACED ON THE BACK OF THE SIDEWALK AS DIRECTED BY THE ENGINEER, CURB NOT SHOWN ON CROSS SECTIONS
480	14 OF 32	RTE 231/KINGSTON	RTE 231	83+05.88	83+22.87	LT	16.99	17.00	-	6.00	0.20	ADA CUT THROUGH AT LAMBETH LN CURB SHALL BE PLACED ON THE BACK OF THE SIDEWALK AS DIRECTED BY THE ENGINEER, CURB NOT SHOWN ON CROSS SECTIONS
480	14 OF 32	RTE 231/KINGSTON	RTE 231	82+71.07	83+89.31	RT	118.24	119.00	-	6.00	1.20	ADA DRIVEWAY CUT THROUGH
480	14 OF 32	RTE 231/KINGSTON	RTE 231	82+68.90	83+97.35	RT	129.85	-	130.00	VARIES	-	ADA DRIVEWAY CUT THROUGH, 9 INCH CURB HEIGHT CURB SHALL BE PLACED ON THE BACK OF THE SIDEWALK AS DIRECTED BY THE ENGINEER, CURB NOT SHOWN ON CROSS SECTIONS
480	14 OF 32	LAMBETH LN	LAMBETH LN	120+46.90	120+48.46	LT	1.56	2.00	-	6.00	0.10	EXISTING CONCRETE CURB
480	14 OF 32	LAMBETH LN	LAMBETH LN	120+46.17	120+48.98	RT	2.81	3.00	-	6.00	0.10	EXISTING CONCRETE CURB
480-481	14-15 OF 32	RTE 231/KINGSTON	RTE 231	83+63.84	85+85.00	LT	227.99	228.00	-	6.00	2.30	ADA RAMP AT CARRINGTON LN CURB SHALL BE PLACED ON THE BACK OF THE SIDEWALK AS DIRECTED BY THE ENGINEER, CURB NOT SHOWN ON CROSS SECTIONS
481	15 OF 32	RTE 231/KINGSTON	RTE 231	84+41.26	86+77.96	RT	236.70	237.00	-	6.00	2.40	ADA DRIVEWAY CUT THROUGH
481	15 OF 32	RTE 231/KINGSTON	RTE 231	84+33.22	86+86.59	RT	253.37	-	254.00	VARIES	-	ADA DRIVEWAY CUT THROUGH, 9 INCH CURB HEIGHT CURB SHALL BE PLACED ON THE BACK OF THE SIDEWALK AS DIRECTED BY THE ENGINEER, CURB NOT SHOWN ON CROSS SECTIONS
481	15 OF 32	RTE 231/KINGSTON	RTE 231	85+41.08	85+78.19	LT	37.11	-	38.00	VARIES	-	ADA DRIVEWAY CUT THROUGH, 9 INCH CURB HEIGHT
481	15 OF 32	RTE 231/KINGSTON	RTE 231	85+41.08	85+78.19	LT	37.11	-	38.00	VARIES	-	ADA DRIVEWAY CUT THROUGH, 9 INCH CURB HEIGHT CURB SHALL BE PLACED ON THE BACK OF THE SIDEWALK AS DIRECTED BY THE ENGINEER, CURB NOT SHOWN ON CROSS SECTIONS
481	15 OF 32	CARRINGTON LN	CARRINGTON LN	125+46.86	125+49.63	LT	2.77	3.00	-	6.00	0.10	EXISTING CONCRETE CURB
481	15 OF 32	RTE 231/KINGSTON	RTE 231	86+12.19	88+21.38	LT	212.90	213.00	-	6.00	2.20	ADA DRIVEWAY CUT THROUGH
481-482	15-16 OF 32	RTE 231/KINGSTON	RTE 231	87+23.64	89+44.79	RT	221.15	222.00	-	6.00	2.30	ADA RAMP CROSSING
481-482	15-16 OF 32	RTE 231/KINGSTON	RTE 231	87+15.01	89+44.79	RT	229.78	230.00	-	VARIES	2.30	ADA CUT THROUGH, 9 INCH CURB HEIGHT CURB SHALL BE PLACED ON THE BACK OF THE SIDEWALK AS DIRECTED BY THE ENGINEER, CURB NOT SHOWN ON CROSS SECTIONS
482	16 OF 32	RTE 231/KINGSTON	RTE 231	88+04.43	88+37.48	LT	33.05	-	34.00	VARIES	-	ADA DRIVEWAY CUT THROUGH, 9 INCH CURB HEIGHT
482	16 OF 32	RTE 231/KINGSTON	RTE 231	88+04.43	88+40.46	LT	36.03	-	37.00	VARIES	-	ADA DRIVEWAY CUT THROUGH, 9 INCH CURB HEIGHT CURB SHALL BE PLACED ON THE BACK OF THE SIDEWALK AS DIRECTED BY THE ENGINEER, CURB NOT SHOWN ON CROSS SECTIONS
482	16 OF 32	RTE 231/KINGSTON	RTE 231	89+69.79	90+69.19	RT	99.40	100.00	-	6.00	1.00	ADA DRIVEWAY CUT THROUGH
482	16 OF 32	RTE 231/KINGSTON	RTE 231	89+69.79	90+78.29	RT	108.50	-	109.00	VARIES	-	ADA DRIVEWAY CUT THROUGH, 9 INCH CURB HEIGHT CURB SHALL BE PLACED ON THE BACK OF THE SIDEWALK AS DIRECTED BY THE ENGINEER, CURB NOT SHOWN ON CROSS SECTIONS
482	16 OF 32	RTE 231/KINGSTON	RTE 231	91+19.18	92+89.25	RT	170.07	171.00	-	6.00	1.80	ADA DRIVEWAY CUT THROUGH
482	16 OF 32	RTE 231/KINGSTON	RTE 231	91+09.60	92+96.42	RT	186.82	-	187.00	VARIES	-	ADA DRIVEWAY CUT THROUGH, 9 INCH CURB HEIGHT
482	16 OF 32	RTE 231/KINGSTON	RTE 231	92+43.71	92+52.17	LT	8.46	-	9.00	VARIES	-	ADA DRIVEWAY CUT THROUGH, 9 INCH CURB HEIGHT
482	16 OF 32	RTE 231/KINGSTON	RTE 231	92+63.05	93+14.93	LT	51.88	-	52.00	VARIES	-	ADA DRIVEWAY CUT THROUGH, 9 INCH CURB HEIGHT CURB SHALL BE PLACED ON THE BACK OF THE SIDEWALK AS DIRECTED BY THE ENGINEER, CURB NOT SHOWN ON CROSS SECTIONS
482	16 OF 32	RTE 231/KINGSTON	RTE 231	93+31.65	93+60.77	RT	29.12	30.00	-	6.00	0.30	ADA DRIVEWAY CUT THROUGH
482	16 OF 32	RTE 231/KINGSTON	RTE 231	93+34.65	94+11.37	LT	77.09	-	78.00	VARIES	-	ADA DRIVEWAY CUT THROUGH, 9 INCH CURB HEIGHT CURB SHALL BE PLACED ON THE BACK OF THE SIDEWALK AS DIRECTED BY THE ENGINEER, CURB NOT SHOWN ON CROSS SECTIONS
482	16 OF 32	RTE 231/KINGSTON	RTE 231	93+94.13	94+14.89	RT	20.76	21.00	-	6.00	0.30	ADA DRIVEWAY CUT THROUGH
483	17 OF 32	RTE 231/KINGSTON	RTE 231	94+40.77	94+95.55	LT	54.93	-	55.00	VARIES	-	ADA DRIVEWAY CUT THROUGH, 9 INCH CURB HEIGHT CURB SHALL BE PLACED ON THE BACK OF THE SIDEWALK AS DIRECTED BY THE ENGINEER, CURB NOT SHOWN ON CROSS SECTIONS
					TABLE 7 SUBTOTAL			1,596.00	1,326.00	-	16.60	-

✳ CONTRACTOR CAN SUBSTITUTE THE TYPE S CURB WITH THE MODIFIED INTEGRAL CURB TYPE B SHOWN ON THE TYPICAL SECTIONS

SUMMARY OF QUANTITIES
SHEET 42 OF 106

LAYOUT	NS	01/2025	
DRAWN	SMC	01/2025	
REVIEWED	DJK	01/2025	

STATE OF MISSOURI
DENNIS J KOSCIELSKI
NUMBER PE-2005000712
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED 7/25/2025

ROUTE	STATE
231	MO
DISTRICT	SHEET NO.
SL	3

COUNTY: ST. LOUIS
JOB NO.: J6S3631
CONTRACT ID.:
PROJECT NO.:
BRIDGE NO.:

DESCRIPTION	DATE

IF A SEAL IS PRESENT ON THIS SHEET, IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

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CURB (CONT.)

SHEET NO.	SPECIAL CURB SHEET NO.	ROADWAY	CENTER LINE	STATION FROM	STATION TO	LOCATION	LENGTH (FT)	* CONCRETE CURB (6 IN HEIGHT AND UNDER) TYPE S (LF)	CONCRETE CURB (OVER 6 IN HEIGHT) TYPE S (LF)	CURB HEIGHT (IN)	MISC. {LINEAR GRADING CLASS 2-MODIFIED} (STA.)	REMARKS
483	17 OF 32	RTE 231/KINGSTON	RTE 231	95+00.55	95+15.61	LT	15.27	-	16.00	VARIES	-	ADA DRIVEWAY CUT THROUGH, 9 INCH CURB HEIGHT CURB SHALL BE PLACED ON THE BACK OF THE SIDEWALK AS DIRECTED BY THE ENGINEER, CURB NOT SHOWN ON CROSS SECTIONS
483	17 OF 32	RTE 231/KINGSTON	RTE 231	94+79.80	95+24.20	RT	44.40	45.00	-	6.00	0.50	ADA DRIVEWAY CUT THROUGH
483	17 OF 32	RTE 231/KINGSTON	RTE 231	95+36.18	96+14.96	LT	79.27	-	80.00	VARIES	-	ADA DRIVEWAY CUT THROUGH, 9 INCH CURB HEIGHT CURB SHALL BE PLACED ON THE BACK OF THE SIDEWALK AS DIRECTED BY THE ENGINEER, CURB NOT SHOWN ON CROSS SECTIONS
483	17 OF 32	RTE 231/KINGSTON	RTE 231	96+33.46	96+94.68	LT	61.22	-	62.00	VARIES	-	ADA DRIVEWAY CUT THROUGH, 9 INCH CURB HEIGHT CURB SHALL BE PLACED ON THE BACK OF THE SIDEWALK AS DIRECTED BY THE ENGINEER, CURB NOT SHOWN ON CROSS SECTIONS
483	17 OF 32	RTE 231/KINGSTON	RTE 231	96+99.68	97+13.94	LT	14.56	-	15.00	VARIES	-	ADA DRIVEWAY CUT THROUGH, 9 INCH CURB HEIGHT CURB SHALL BE PLACED ON THE BACK OF THE SIDEWALK AS DIRECTED BY THE ENGINEER, CURB NOT SHOWN ON CROSS SECTIONS
483-484	17-18 OF 32	RTE 231/KINGSTON	RTE 231	95+96.60	100+07.47	RT	413.39	414.00	-	6.00	4.20	ADA RAMP AT S BROADWAY ST
483	17 OF 32	RTE 231/KINGSTON	RTE 231	97+33.75	98+15.65	LT	81.90	-	82.00	VARIES	-	ADA DRIVEWAY CUT THROUGH, 9 INCH CURB HEIGHT CURB SHALL BE PLACED ON THE BACK OF THE SIDEWALK AS DIRECTED BY THE ENGINEER, CURB NOT SHOWN ON CROSS SECTIONS
483	17 OF 32	RTE 231/KINGSTON	RTE 231	98+33.65	98+94.36	LT	60.71	-	61.00	VARIES	-	ADA DRIVEWAY CUT THROUGH, 9 INCH CURB HEIGHT CURB SHALL BE PLACED ON THE BACK OF THE SIDEWALK AS DIRECTED BY THE ENGINEER, CURB NOT SHOWN ON CROSS SECTIONS
483	17 OF 32	RTE 231/KINGSTON	RTE 231	98+99.35	99+14.21	LT	14.86	-	15.00	VARIES	-	ADA DRIVEWAY CUT THROUGH, 9 INCH CURB HEIGHT CURB SHALL BE PLACED ON THE BACK OF THE SIDEWALK AS DIRECTED BY THE ENGINEER, CURB NOT SHOWN ON CROSS SECTIONS
484	18 OF 32	RTE 231/BROADWAY	RTE 231	99+28.02	99+64.97	LT	36.95	-	37.00	VARIES	-	ADA DRIVEWAY CUT THROUGH, 9 INCH CURB HEIGHT CURB SHALL BE PLACED ON THE BACK OF THE SIDEWALK AS DIRECTED BY THE ENGINEER, CURB NOT SHOWN ON CROSS SECTIONS
484	18 OF 32	RTE 231/BROADWAY	RTE 231	99+84.18	100+75.54	LT	91.36	92.00	-	6.00	1.00	ADA DRIVEWAY CUT THROUGH
484	18 OF 32	RTE 231/BROADWAY	RTE 231	101+27.40	101+84.36	LT	54.11	55.00	-	6.00	0.60	ADA DRIVEWAY CUT THROUGH
484	18 OF 32	S BROADWAY ST	S BROADWAY ST	135+19.34	135+68.26	LT	53.45	54.00	-	6.00	0.60	ADA RAMP AT S BROADWAY ST
484	18 OF 32	S BROADWAY ST	S BROADWAY ST	135+19.34	135+69.26	RT	43.49	44.00	-	6.00	0.50	ADA RAMP AT S BROADWAY ST
484	18 OF 32	RTE 231/BROADWAY	RTE 231	100+78.98	101+41.99	RT	70.66	71.00	-	6.00	0.80	ADA DRIVEWAY CUT THROUGH
484	18 OF 32	RTE 231/BROADWAY	RTE 231	102+07.82	102+62.44	RT	54.62	55.00	-	6.00	0.60	ADA DRIVEWAY CUT THROUGH
484	18 OF 32	RTE 231/BROADWAY	RTE 231	102+33.98	102+37.98	LT	4.00	4.00	-	6.00	0.10	ADA DRIVEWAY CUT THROUGH
484	18 OF 32	RTE 231/BROADWAY	RTE 231	102+76.30	103+40.33	LT	64.03	65.00	-	6.00	0.70	ADA DRIVEWAY CUT THROUGH
484	18 OF 32	RTE 231/BROADWAY	RTE 231	103+69.75	104+10.76	LT	41.01	42.00	-	6.00	0.50	ADA DRIVEWAY CUT THROUGH
484	18 OF 32	RTE 231/BROADWAY	RTE 231	103+26.59	104+04.67	RT	78.08	79.00	-	6.00	0.80	ADA DRIVEWAY CUT THROUGH
485	19 OF 32	RTE 231/BROADWAY	RTE 231	104+37.34	105+10.94	LT	73.60	74.00	-	6.00	0.80	ADA DRIVEWAY CUT THROUGH
485	19 OF 32	RTE 231/BROADWAY	RTE 231	104+36.36	104+53.00	RT	16.64	17.00	-	6.00	0.20	ADA DRIVEWAY CUT THROUGH
485	19 OF 32	RTE 231/BROADWAY	RTE 231	104+81.04	105+26.67	RT	45.63	46.00	-	6.00	0.50	ADA DRIVEWAY CUT THROUGH
485	19 OF 32	RTE 231/BROADWAY	RTE 231	105+59.56	106+07.22	RT	47.66	48.00	-	6.00	0.50	ADA DRIVEWAY CUT THROUGH
485	19 OF 32	RTE 231/BROADWAY	RTE 231	105+39.26	106+36.71	LT	97.45	98.00	-	6.00	1.00	ADA DRIVEWAY CUT THROUGH
485	19 OF 32	RTE 231/BROADWAY	RTE 231	105+88.21	106+21.71	LT	33.50	-	34.00	VARIES	-	ADA DRIVEWAY CUT THROUGH, 9 INCH CURB HEIGHT CURB SHALL BE PLACED ON THE BACK OF THE SIDEWALK AS DIRECTED BY THE ENGINEER, CURB NOT SHOWN ON CROSS SECTIONS
485	19 OF 32	RTE 231/BROADWAY	RTE 231	106+34.32	106+47.78	RT	13.46	-	14.00	VARIES	-	ADA DRIVEWAY CUT THROUGH
485	19 OF 32	RTE 231/BROADWAY	RTE 231	106+75.73	107+24.63	RT	48.90	-	49.00	VARIES	-	ADA DRIVEWAY CUT THROUGH
485	19 OF 32	RTE 231/BROADWAY	RTE 231	106+84.40	107+74.58	RT	90.18	91.00	-	6.00	1.00	ADA DRIVEWAY CUT THROUGH
485	19 OF 32	RTE 231/BROADWAY	RTE 231	106+66.49	107+47.58	LT	81.09	82.00	-	6.00	0.90	ADA CROSSING AT RIPA AVE
485	19 OF 32	RTE 231/BROADWAY	RTE 231	107+76.98	107+86.02	LT	29.20	30.00	-	6.00	0.30	ADA CROSSING AT RIPA AVE
485	19 OF 32	RTE 231/BROADWAY	RTE 231	108+21.73	108+30.53	LT	12.18	13.00	-	6.00	0.20	ADA CROSSING AT RIPA AVE
485	19 OF 32	RIPA AVE	RIPA AVE	140+41.86	140+53.37	LT	12.82	13.00	-	6.00	0.20	SIDE STREET
485	19 OF 32	RIPA AVE	RIPA AVE	140+43.49	140+53.96	RT	11.94	12.00	-	6.00	0.20	SIDE STREET
485	19 OF 32	RTE 231/BROADWAY	RTE 231	107+72.85	107+96.27	RT	29.20	30.00	-	6.00	0.30	ADA CROSSING AT RIPA AVE
485	19 OF 32	RTE 231/BROADWAY	RTE 231	108+20.34	108+32.50	RT	23.69	24.00	-	6.00	0.30	ADA CROSSING AT RIPA AVE
485	19 OF 32	RTE 231/BROADWAY	RTE 231	108+47.06	108+96.30	LT	49.24	50.00	-	6.00	0.50	ADA DRIVEWAY CUT THROUGH
485-486	19-20 OF 32	RTE 231/BROADWAY	RTE 231	108+39.50	109+58.14	RT	119.75	120.00	-	6.00	1.20	ADA DRIVEWAY CUT THROUGH
485-486	19-20 OF 32	RTE 231/BROADWAY	RTE 231	109+23.29	109+96.59	LT	73.30	74.00	-	6.00	0.80	ADA DRIVEWAY CUT THROUGH
486	20 OF 32	RTE 231/BROADWAY	RTE 231	109+86.56	110+05.22	LT	18.66	-	19.00	VARIES	-	ADA DRIVEWAY CUT THROUGH, 9 INCH CURB HEIGHT
486	20 OF 32	RTE 231/BROADWAY	RTE 231	110+06.03	110+70.70	RT	64.67	-	65.00	VARIES	-	ADA DRIVEWAY CUT THROUGH, 9 INCH CURB HEIGHT
486	20 OF 32	RTE 231/BROADWAY	RTE 231	110+06.03	112+08.14	RT	202.11	203.00	-	6.00	2.10	ADA DRIVEWAY CUT THROUGH
486	20 OF 32	RTE 231/BROADWAY	RTE 231	111+01.05	112+08.14	RT	107.09	-	108.00	VARIES	-	ADA DRIVEWAY CUT THROUGH, 9 INCH CURB HEIGHT CURB SHALL BE PLACED ON THE BACK OF THE SIDEWALK AS DIRECTED BY THE ENGINEER, CURB NOT SHOWN ON CROSS SECTIONS
486	20 OF 32	RTE 231/BROADWAY	RTE 231	110+33.13	110+59.61	LT	26.48	27.00	-	6.00	0.30	ADA DRIVEWAY CUT THROUGH
486	20 OF 32	RTE 231/BROADWAY	RTE 231	110+25.73	110+65.53	LT	39.80	-	40.00	VARIES	-	ADA DRIVEWAY CUT THROUGH, 9 INCH CURB HEIGHT
486	20 OF 32	RTE 231/BROADWAY	RTE 231	110+99.18	111+81.20	LT	82.02	83.00	-	6.00	0.90	ADA DRIVEWAY CUT THROUGH
486	20 OF 32	RTE 231/BROADWAY	RTE 231	112+08.74	112+50.97	LT	42.23	43.00	-	6.00	0.50	ADA DRIVEWAY CUT THROUGH
486	20 OF 32	RTE 231/BROADWAY	RTE 231	113+28.28	113+37.91	LT	9.63	10.00	-	6.00	0.10	ADA DRIVEWAY CUT THROUGH
							TABLE 8 SUBTOTAL	2,208.00	697.00	-	23.70	-

✳ CONTRACTOR CAN SUBSTITUTE THE TYPE S CURB WITH THE MODIFIED INTEGRAL CURB TYPE B SHOWN ON THE TYPICAL SECTIONS

SUMMARY OF QUANTITIES
SHEET 43 OF 106

LAYOUT NS 01/2025
DRAWN SMC 01/2025
REVIEWED DJK 01/2025

STATE OF MISSOURI
DENNIS J KOSCIELSKI
NUMBER PE-2005000712
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED 7/25/2025
ROUTE 231 | STATE MO
DISTRICT SL | SHEET NO. 3
COUNTY ST. LOUIS
JOB NO. J6S3631
CONTRACT ID.
PROJECT NO.
BRIDGE NO.

DESCRIPTION | DATE

IF A SEAL IS PRESENT ON THIS SHEET, IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

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Professional Engineer 001632
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314.770.0467

CURB (CONT.)

SHEET NO.	SPECIAL CURB SHEET NO.	ROADWAY	CENTER LINE	STATION FROM	STATION TO	LOCATION	LENGTH (FT)	* CONCRETE CURB (6 IN HEIGHT AND UNDER) TYPE S (LF)	CONCRETE CURB (OVER 6 IN HEIGHT) TYPE S (LF)	CURB HEIGHT (IN)	MISC. (LINEAR GRADING CLASS 2-MODIFIED) (STA.)	REMARKS
486	20 OF 32	RTE 231/BROADWAY	RTE 231	112+67.40	113+83.17	RT	115.77	116.00	-	6.00	1.20	ADA RAMP FOR VIEHL AVE
486	20 OF 32	RTE 231/BROADWAY	RTE 231	113+76.58	114+06.74	LT	30.16	31.00	-	6.00	0.40	ADA RAMP FOR VIEHL AVE
487	21 OF 32	RTE 231/BROADWAY	RTE 231	114+33.11	114+50.05	LT	16.94	17.00	-	6.00	0.20	ADA DRIVEWAY CUT THROUGH
487	21 OF 32	RTE 231/BROADWAY	RTE 231	114+24.48	114+55.98	LT	31.50	-	32.00	VARIES	-	ADA DRIVEWAY CUT THROUGH, 9 INCH CURB HEIGHT
487	21 OF 32	RTE 231/BROADWAY	RTE 231	114+81.28	115+34.89	LT	53.61	54.00	-	6.00	0.60	ADA DRIVEWAY CUT THROUGH
487	21 OF 32	RTE 231/BROADWAY	RTE 231	114+75.28	114+99.76	LT	24.48	-	25.00	VARIES	-	ADA DRIVEWAY CUT THROUGH, 9 INCH CURB HEIGHT CURB SHALL BE PLACED ON THE BACK OF THE SIDEWALK AS DIRECTED BY THE ENGINEER. CURB NOT SHOWN ON CROSS SECTIONS
487	21 OF 32	RTE 231/BROADWAY	RTE 231	115+03.75	115+40.77	LT	37.02	-	38.00	VARIES	-	ADA DRIVEWAY CUT THROUGH, 9 INCH CURB HEIGHT CURB SHALL BE PLACED ON THE BACK OF THE SIDEWALK AS DIRECTED BY THE ENGINEER. CURB NOT SHOWN ON CROSS SECTIONS
487	21 OF 32	RTE 231/BROADWAY	RTE 231	114+37.83	114+57.30	RT	19.47	20.00	-	6.00	0.20	ADA DRIVEWAY CUT THROUGH
487	21 OF 32	RTE 231/BROADWAY	RTE 231	114+37.83	114+57.30	RT	19.47	-	20.00	VARIES	-	ADA DRIVEWAY CUT THROUGH, 9 INCH CURB HEIGHT
487	21 OF 32	RTE 231/BROADWAY	RTE 231	115+08.23	115+31.09	RT	22.86	23.00	-	6.00	0.30	ADA DRIVEWAY CUT THROUGH
487	21 OF 32	RTE 231/BROADWAY	RTE 231	115+08.23	115+31.09	RT	22.86	-	23.00	VARIES	-	ADA DRIVEWAY CUT THROUGH, 9 INCH CURB HEIGHT
487	21 OF 32	RTE 231/BROADWAY	RTE 231	115+61.14	116+31.79	LT	70.65	71.00	-	6.00	0.80	ADA CROSSING ON W ARLEE AVE
487	21 OF 32	RTE 231/BROADWAY	RTE 231	115+73.20	115+99.78	RT	26.58	27.00	-	6.00	0.30	ADA CROSSING ON E ARLEE AVE
487	21 OF 32	RTE 231/BROADWAY	RTE 231	115+73.20	115+99.78	RT	26.58	-	27.00	VARIES	-	ADA CROSSING ON E ARLEE AVE, 9 INCH CURB HEIGHT CURB SHALL BE PLACED ON THE BACK OF THE SIDEWALK AS DIRECTED BY THE ENGINEER. CURB NOT SHOWN ON CROSS SECTIONS
487	21 OF 32	E ARLEE AVE	E ARLEE AVE	150+28.87	150+60.00	LT	32.20	33.00	-	6.00	0.40	TIE TO EXISTING ON E ARLEE AVE
487	21 OF 32	W ARLEE AVE	W ARLEE AVE	155+59.58	155+64.58	RT	5.00	5.00	-	6.00	0.10	TIE TO EXISTING ON W ARLEE AVE
487	21 OF 32	RTE 231/BROADWAY	RTE 231	116+76.19	116+99.63	LT	23.44	24.00	-	6.00	0.30	ADA CROSSING ON RTE 231 CURB SHALL BE PLACED ON THE BACK OF THE SIDEWALK AS DIRECTED BY THE ENGINEER. CURB NOT SHOWN ON CROSS SECTIONS
487	21 OF 32	RTE 231/BROADWAY	RTE 231	117+17.63	117+42.67	LT	25.04	26.00	-	6.00	0.30	ADA DRIVEWAY CUT THROUGH
487	21 OF 32	RTE 231/BROADWAY	RTE 231	117+17.63	117+29.96	LT	12.33	-	13.00	VARIES	-	ADA DRIVEWAY CUT THROUGH, 9 INCH CURB HEIGHT CURB SHALL BE PLACED ON THE BACK OF THE SIDEWALK AS DIRECTED BY THE ENGINEER. CURB NOT SHOWN ON CROSS SECTIONS
487	21 OF 32	RTE 231/BROADWAY	RTE 231	117+34.04	117+48.56	LT	14.52	-	15.00	VARIES	-	ADA DRIVEWAY CUT THROUGH, 9 INCH CURB HEIGHT CURB SHALL BE PLACED ON THE BACK OF THE SIDEWALK AS DIRECTED BY THE ENGINEER. CURB NOT SHOWN ON CROSS SECTIONS
487	21 OF 32	RTE 231/BROADWAY	RTE 231	116+47.23	116+91.63	RT	44.40	45.00	-	6.00	0.50	ADA CROSSING ON RTE 231
487	21 OF 32	RTE 231/BROADWAY	RTE 231	117+16.63	117+40.21	RT	23.58	24.00	-	6.00	0.30	ADA DRIVEWAY CUT THROUGH
487	21 OF 32	RTE 231/BROADWAY	RTE 231	117+70.21	117+81.55	RT	11.34	12.00	-	6.00	0.20	ADA DRIVEWAY CUT THROUGH
487	21 OF 32	RTE 231/BROADWAY	RTE 231	117+63.44	119+34.25	LT	170.81	171.00	-	6.00	1.80	ADA CROSSING ON W FELTON AVE
487	21 OF 32	RTE 231/BROADWAY	RTE 231	117+57.45	117+70.88	LT	13.43	-	14.00	VARIES	-	PRIVATE SIDEWALK CUT THROUGH, 9 INCH CURB HEIGHT CURB SHALL BE PLACED ON THE BACK OF THE SIDEWALK AS DIRECTED BY THE ENGINEER. CURB NOT SHOWN ON CROSS SECTIONS
487	21 OF 32	RTE 231/BROADWAY	RTE 231	117+75.02	118+17.15	LT	42.13	-	43.00	VARIES	-	PRIVATE SIDEWALK CUT THROUGH, 9 INCH CURB HEIGHT CURB SHALL BE PLACED ON THE BACK OF THE SIDEWALK AS DIRECTED BY THE ENGINEER. CURB NOT SHOWN ON CROSS SECTIONS
487	21 OF 32	RTE 231/BROADWAY	RTE 231	118+21.15	118+38.25	LT	17.10	-	18.00	VARIES	-	PRIVATE SIDEWALK CUT THROUGH, 9 INCH CURB HEIGHT CURB SHALL BE PLACED ON THE BACK OF THE SIDEWALK AS DIRECTED BY THE ENGINEER. CURB NOT SHOWN ON CROSS SECTIONS
487	21 OF 32	RTE 231/BROADWAY	RTE 231	118+67.87	118+80.08	LT	12.21	-	13.00	VARIES	-	PRIVATE SIDEWALK CUT THROUGH, 9 INCH CURB HEIGHT CURB SHALL BE PLACED ON THE BACK OF THE SIDEWALK AS DIRECTED BY THE ENGINEER. CURB NOT SHOWN ON CROSS SECTIONS
487	21 OF 32	RTE 231/BROADWAY	RTE 231	118+84.35	119+34.25	LT	49.90	-	50.00	VARIES	-	ADA CROSSING ON W FELTON AVE, 9 INCH CURB HEIGHT CURB SHALL BE PLACED ON THE BACK OF THE SIDEWALK AS DIRECTED BY THE ENGINEER. CURB NOT SHOWN ON CROSS SECTIONS
487	21 OF 32	RTE 231/BROADWAY	RTE 231	118+22.92	118+84.76	RT	62.72	63.00	-	6.00	0.70	ADA CROSSING ON E FELTON AVE CURB SHALL BE PLACED ON THE BACK OF THE SIDEWALK AS DIRECTED BY THE ENGINEER. CURB NOT SHOWN ON CROSS SECTIONS
487	21 OF 32	RTE 231/BROADWAY	RTE 231	118+16.66	118+39.74	RT	62.72	63.00	-	6.00	0.70	ADA CROSSING ON E FELTON AVE
487	21 OF 32	E FELTON AVE	E FELTON AVE	160+34.81	160+48.78	LT	23.05	24.00	-	6.00	0.30	TIE TO EXISTING ON E FELTON AVE
487	21 OF 32	E FELTON AVE	E FELTON AVE	160+28.74	160+48.78	RT	20.04	21.00	-	6.00	0.30	TIE TO EXISTING ON E FELTON AVE
487	21 OF 32	RTE 231/BROADWAY	RTE 231	119+44.85	119+52.85	RT	8.00	8.00	-	6.00	0.10	ADA DRIVEWAY CUT THROUGH
487	21 OF 32	RTE 231/BROADWAY	RTE 231	119+44.85	119+59.50	RT	14.65	15.00	15.00	VARIES	-	ADA DRIVEWAY CUT THROUGH, 9 INCH CURB HEIGHT CURB SHALL BE PLACED ON THE BACK OF THE SIDEWALK AS DIRECTED BY THE ENGINEER. CURB NOT SHOWN ON CROSS SECTIONS
487	21 OF 32	W FELTON AVE	W FELTON AVE	165+54.00	165+70.02	LT	16.02	17.00	-	6.00	0.20	TIE TO EXISTING ON W FELTON AVE
487	21 OF 32	W FELTON AVE	W FELTON AVE	165+54.00	165+72.53	RT	19.07	20.00	-	6.00	0.20	TIE TO EXISTING ON W FELTON AVE
488	22 OF 32	RTE 231/BROADWAY	RTE 231	119+91.78	121+87.43	LT	195.65	196.00	-	6.00	2.00	ADA DRIVEWAY CUT THROUGH
							TABLE 9 SUBTOTAL	1,126.00	346.00	-	12.40	-

✳ CONTRACTOR CAN SUBSTITUTE THE TYPE S CURB WITH THE MODIFIED INTEGRAL CURB TYPE B SHOWN ON THE TYPICAL SECTIONS

SUMMARY OF QUANTITIES
SHEET 44 OF 106

	NS	SMC	DJK
LAYOUT	01/2025		
DRAWN	01/2025		
REVIEWED	01/2025		

STATE OF MISSOURI
DENNIS J KOSCIELSKI
NUMBER PE-2005000712
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED
7/25/2025

ROUTE	STATE
231	MO
DISTRICT	SHEET NO.
SL	3

COUNTY
ST. LOUIS

JOB NO.
J6S3631

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION	DATE

IF A SEAL IS PRESENT ON THIS SHEET, IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

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CURB (CONT.)

SHEET NO.	SPECIAL CURB SHEET NO.	ROADWAY	CENTER LINE	STATION FROM	STATION TO	LOCATION	LENGTH (FT)	* CONCRETE CURB (6 IN HEIGHT AND UNDER) TYPE S (LF)	CONCRETE CURB (OVER 6 IN HEIGHT) TYPE S (LF)	CURB HEIGHT (IN)	MISC. {LINEAR GRADING CLASS 2-MODIFIED} (STA.)	REMARKS
488	22 OF 32	RTE 231/BROADWAY	RTE 231	119+91.78	119+94.35	LT	2.57	-	3.00	VARIES	-	PRIVATE SIDEWALK CUT THROUGH, 9 INCH CURB HEIGHT CURB SHALL BE PLACED ON THE BACK OF THE SIDEWALK AS DIRECTED BY THE ENGINEER, CURB NOT SHOWN ON CROSS SECTIONS
488	22 OF 32	RTE 231/BROADWAY	RTE 231	119+99.24	120+27.66	LT	28.42	-	29.00	VARIES	-	PRIVATE SIDEWALK CUT THROUGH, 9 INCH CURB HEIGHT
488	22 OF 32	RTE 231/BROADWAY	RTE 231	120+31.48	120+90.20	LT	59.11	-	60.00	VARIES	-	PRIVATE SIDEWALK CUT THROUGH, 9 INCH CURB HEIGHT
488	22 OF 32	RTE 231/BROADWAY	RTE 231	120+94.28	121+46.47	LT	52.19	-	53.00	VARIES	-	PRIVATE SIDEWALK CUT THROUGH, 9 INCH CURB HEIGHT CURB SHALL BE PLACED ON THE BACK OF THE SIDEWALK AS DIRECTED BY THE ENGINEER, CURB NOT SHOWN ON CROSS SECTIONS
488	22 OF 32	RTE 231/BROADWAY	RTE 231	121+50.81	121+82.87	LT	32.06	-	33.00	VARIES	-	PRIVATE SIDEWALK CUT THROUGH, 9 INCH CURB HEIGHT CURB SHALL BE PLACED ON THE BACK OF THE SIDEWALK AS DIRECTED BY THE ENGINEER, CURB NOT SHOWN ON CROSS SECTIONS
488	22 OF 32	RTE 231/BROADWAY	RTE 231	121+86.90	121+94.13	LT	7.23	-	8.00	VARIES	-	ADA DRIVEWAY CUT THROUGH, 9 INCH CURB HEIGHT CURB SHALL BE PLACED ON THE BACK OF THE SIDEWALK AS DIRECTED BY THE ENGINEER, CURB NOT SHOWN ON CROSS SECTIONS
488	22 OF 32	RTE 231/BROADWAY	RTE 231	122+12.86	122+38.32	LT	26.24	27.00	-	6.00	0.30	ADA CROSSING ON W LORETTA AVE
488	22 OF 32	RTE 231/BROADWAY	RTE 231	122+64.23	124+52.98	LT	135.37	136.00	-	6.00	1.40	ADA DRIVEWAY CUT THROUGH
488	22 OF 32	RTE 231/BROADWAY	RTE 231	124+93.08	125+23.94	LT	30.86	31.00	-	6.00	0.40	ADA CROSSING ON W HOLDEN AVE
489	23 OF 32	RTE 231/BROADWAY	RTE 231	125+15.43	125+23.94	LT	8.51	-	9.00	VARIES	-	ADA CROSSING ON W HOLDEN AVE, 9 INCH CURB HEIGHT CURB SHALL BE PLACED ON THE BACK OF THE SIDEWALK AS DIRECTED BY THE ENGINEER, CURB NOT SHOWN ON CROSS SECTIONS
489	23 OF 32	RTE 231/BROADWAY	RTE 231	126+33.49	128+12.04	LT	178.55	179.00	-	6.00	1.80	ADA CROSSING ON W VELMA AVE
489	23 OF 32	RTE 231/BROADWAY	RTE 231	127+83.53	128+12.04	LT	28.51	-	29.00	VARIES	-	ADA CROSSING ON W VELMA AVE, 9 INCH CURB HEIGHT
489	23 OF 32	W VELMA AVE	W VELMA AVE	195+50.00	195+71.60	LT	21.60	22.00	-	6.00	0.30	TIE TO EXISTING ON W VELMA AVE
489	23 OF 32	RTE 231/BROADWAY	RTE 231	128+59.95	128+89.53	LT	29.58	30.00	-	6.00	0.30	ADA DRIVEWAY CUT THROUGH CURB SHALL BE PLACED ON THE BACK OF THE SIDEWALK AS DIRECTED BY THE ENGINEER, CURB NOT SHOWN ON CROSS SECTIONS
489	23 OF 32	RTE 231/BROADWAY	RTE 231	128+62.57	128+94.54	LT	31.97	-	32.00	VARIES	-	ADA DRIVEWAY CUT THROUGH, 9 INCH CURB HEIGHT
489	23 OF 32	RTE 231/BROADWAY	RTE 231	129+39.78	129+57.16	LT	17.38	18.00	-	6.00	0.20	ADA DRIVEWAY CUT THROUGH
489	23 OF 32	RTE 231/BROADWAY	RTE 231	129+34.72	129+62.10	LT	27.38	-	28.00	VARIES	-	ADA DRIVEWAY CUT THROUGH, 9 INCH CURB HEIGHT CURB SHALL BE PLACED ON THE BACK OF THE SIDEWALK AS DIRECTED BY THE ENGINEER, CURB NOT SHOWN ON CROSS SECTIONS
489	23 OF 32	RTE 231/BROADWAY	RTE 231	129+92.32	130+29.37	LT	37.05	38.00	-	6.00	0.40	ADA DRIVEWAY CUT THROUGH
489	23 OF 32	RTE 231/BROADWAY	RTE 231	129+87.26	130+34.36	LT	47.80	-	48.00	VARIES	-	ADA DRIVEWAY CUT THROUGH, 9 INCH CURB HEIGHT CURB SHALL BE PLACED ON THE BACK OF THE SIDEWALK AS DIRECTED BY THE ENGINEER, CURB NOT SHOWN ON CROSS SECTIONS
490	24 OF 32	RTE 231/BROADWAY	RTE 231	130+97.36	131+00.99	LT	3.63	4.00	-	6.00	0.10	ADA CROSSING AT W ETTA AVE
490	24 OF 32	RTE 231/BROADWAY	RTE 231	130+97.36	131+00.99	LT	3.63	-	4.00	VARIES	-	ADA CROSSING AT W ETTA AVE, 9 INCH CURB HEIGHT
490	24 OF 32	W ETTA AVE	W ETTA AVE	205+35.50	205+71.57	LT	36.07	37.00	-	6.00	0.40	TIE TO EXISTING ON W ETTA AVE
490	24 OF 32	W ETTA AVE	W ETTA AVE	205+35.50	205+71.57	RT	36.07	37.00	-	6.00	0.40	TIE TO EXISTING ON W ETTA AVE
490	24 OF 32	RTE 231/BROADWAY	RTE 231	131+53.41	133+94.41	LT	241.00	241.00	-	6.00	2.50	ADA CROSSING AT W CARTWRIGHT AVE
490	24 OF 32	RTE 231/BROADWAY	RTE 231	131+55.95	131+89.99	LT	41.19	-	42.00	VARIES	-	PRIVATE SIDEWALK CUT THROUGH, 9 INCH CURB HEIGHT CURB SHALL BE PLACED ON THE BACK OF THE SIDEWALK AS DIRECTED BY THE ENGINEER, CURB NOT SHOWN ON CROSS SECTIONS
490	24 OF 32	RTE 231/BROADWAY	RTE 231	131+93.99	132+48.56	LT	54.57	-	55.00	VARIES	-	PRIVATE SIDEWALK CUT THROUGH, 9 INCH CURB HEIGHT
490	24 OF 32	RTE 231/BROADWAY	RTE 231	132+52.68	132+98.37	LT	45.69	-	46.00	VARIES	-	PRIVATE SIDEWALK CUT THROUGH, 9 INCH CURB HEIGHT
490	24 OF 32	RTE 231/BROADWAY	RTE 231	133+02.70	133+42.39	LT	39.69	-	40.00	VARIES	-	PRIVATE SIDEWALK CUT THROUGH, 9 INCH CURB HEIGHT CURB SHALL BE PLACED ON THE BACK OF THE SIDEWALK AS DIRECTED BY THE ENGINEER, CURB NOT SHOWN ON CROSS SECTIONS
490	24 OF 32	RTE 231/BROADWAY	RTE 231	133+46.39	133+94.42	LT	48.03	-	49.00	VARIES	-	ADA CROSSING AT W CARTWRIGHT AVE, 9 INCH CURB HEIGHT CURB SHALL BE PLACED ON THE BACK OF THE SIDEWALK AS DIRECTED BY THE ENGINEER, CURB NOT SHOWN ON CROSS SECTIONS
490	24 OF 32	W CARTWRIGHT	W CARTWRIGHT	215+25.00	215+71.65	LT	46.65	47.00	-	6.00	0.50	TIE TO EXISTING ON W CARTWRIGHT AVE
490-491	24-25 OF 32	RTE 231/BROADWAY	RTE 231	134+69.04	136+90.83	LT	221.79	222.00	-	6.00	2.30	ADA CROSSING AT VINCENT AVE
490	24 OF 32	RTE 231/BROADWAY	RTE 231	134+69.04	134+71.58	LT	2.54	-	3.00	VARIES	-	PRIVATE SIDEWALK CUT THROUGH, 9 INCH CURB HEIGHT CURB SHALL BE PLACED ON THE BACK OF THE SIDEWALK AS DIRECTED BY THE ENGINEER, CURB NOT SHOWN ON CROSS SECTIONS
490	24 OF 32	RTE 231/BROADWAY	RTE 231	134+75.58	135+24.99	LT	49.41	-	50.00	VARIES	-	PRIVATE SIDEWALK CUT THROUGH, 9 INCH CURB HEIGHT CURB SHALL BE PLACED ON THE BACK OF THE SIDEWALK AS DIRECTED BY THE ENGINEER, CURB NOT SHOWN ON CROSS SECTIONS
491	25 OF 32	RTE 231/BROADWAY	RTE 231	135+28.99	135+61.56	LT	34.91	-	35.00	VARIES	-	PRIVATE SIDEWALK CUT THROUGH, 9 INCH CURB HEIGHT CURB SHALL BE PLACED ON THE BACK OF THE SIDEWALK AS DIRECTED BY THE ENGINEER, CURB NOT SHOWN ON CROSS SECTIONS
491	25 OF 32	RTE 231/BROADWAY	RTE 231	135+65.21	135+85.12	LT	19.91	20.00	-	-	0.20	ADA DRIVEWAY CUT THROUGH CURB SHALL BE PLACED ON THE BACK OF THE SIDEWALK AS DIRECTED BY THE ENGINEER, CURB NOT SHOWN ON CROSS SECTIONS
491	25 OF 32	VINCENT AVE	VINCENT AVE	225+36.44	225+61.48	LT	25.04	26.00	-	6.00	0.30	TIE TO EXISTING ON VINCENT AVE
492	26 OF 32	RTE 231/BROADWAY	RTE 231	137+60.95	139+94.79	LT	233.84	234.00	-	6.00	2.40	ADA DRIVEWAY CUT THROUGH
491	25 OF 32	RTE 231/BROADWAY	RTE 231	119+99.45	120+59.89	RT	60.44	61.00	-	6.00	0.70	ADA DRIVEWAY CUT THROUGH
					TABLE 10 SUBTOTAL			1,410.00	656.00	-	14.90	-

✳ CONTRACTOR CAN SUBSTITUTE THE TYPE S CURB WITH THE MODIFIED INTEGRAL CURB TYPE B SHOWN ON THE TYPICAL SECTIONS

SUMMARY OF QUANTITIES
SHEET 45 OF 106

LAYOUT	NS	01/2025
DRAWN	SMC	01/2025
REVIEWED	DJK	01/2025

STATE OF MISSOURI
DENNIS J KOSCIELSKI
NUMBER PE-2005000712
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED: 7/25/2025

ROUTE	STATE
231	MO
DISTRICT	SHEET NO.
SL	3

COUNTY: ST. LOUIS
JOB NO.: J6S3631
CONTRACT ID.:
PROJECT NO.:
BRIDGE NO.:

DESCRIPTION | DATE

IF A SEAL IS PRESENT ON THIS SHEET, IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

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St. Louis, Missouri 63101
Professional Engineer 001632
www.hanson-inc.com
314.770.0467

CURB (CONT.)

SHEET NO.	SPECIAL CURB SHEET NO.	ROADWAY	CENTER LINE	STATION FROM	STATION TO	LOCATION	LENGTH (FT)	* CONCRETE CURB (6 IN HEIGHT AND UNDER) TYPE S (LF)	CONCRETE CURB (OVER 6 IN HEIGHT) TYPE S (LF)	CURB HEIGHT (IN)	MISC. {LINEAR GRADING CLASS 2-MODIFIED} (STA.)	REMARKS
491	25 OF 32	RTE 231/BROADWAY	RTE 231	120+00.37	120+48.91	RT	48.54	-	49.00	VARIES	-	ADA DRIVEWAY CUT THROUGH, 9 INCH CURB HEIGHT
491	25 OF 32	RTE 231/BROADWAY	RTE 231	120+84.79	120+90.90	RT	6.11	7.00	-	-	0.10	ADA DRIVEWAY CUT THROUGH
491	25 OF 32	RTE 231/BROADWAY	RTE 231	121+15.12	121+25.37	RT	10.25	11.00	-	-	0.20	ADA DRIVEWAY CUT THROUGH
491	25 OF 32	RTE 231/BROADWAY	RTE 231	121+50.34	121+63.55	RT	13.21	14.00	-	-	0.20	ADA CUT THROUGH E LORETTA AVE
491	25 OF 32	RTE 231/BROADWAY	RTE 231	121+50.27	121+59.37	RT	9.10	-	10.00	VARIES	-	ADA CUT THROUGH AT E LORETTA AVE, 9 INCH CURB HEIGHT
491	25 OF 32	RTE 231/BROADWAY	RTE 231	122+85.05	124+65.77	RT	180.72	181.00	-	6.00	1.90	ADA DRIVEWAY CUT THROUGH
491	25 OF 32	RTE 231/BROADWAY	RTE 231	123+08.21	123+13.73	RT	5.52	-	6.00	VARIES	-	ADA DRIVEWAY CUT THROUGH, 9 INCH CURB HEIGHT CURB SHALL BE PLACED ON THE BACK OF THE SIDEWALK AS DIRECTED BY THE ENGINEER, CURB NOT SHOWN ON CROSS SECTIONS
491	25 OF 32	RTE 231/BROADWAY	RTE 231	123+17.73	123+41.06	RT	23.33	-	24.00	VARIES	-	ADA DRIVEWAY CUT THROUGH, 9 INCH CURB HEIGHT CURB SHALL BE PLACED ON THE BACK OF THE SIDEWALK AS DIRECTED BY THE ENGINEER, CURB NOT SHOWN ON CROSS SECTIONS
491	25 OF 32	RTE 231/BROADWAY	RTE 231	124+92.88	125+23.00	RT	30.12	31.00	-	6.00	0.40	ADA DRIVEWAY CUT THROUGH
491	25 OF 32	RTE 231/BROADWAY	RTE 231	125+92.77	126+07.44	RT	14.67	15.00	-	6.00	0.20	ADA DRIVEWAY CUT THROUGH
491	25 OF 32	RTE 231/BROADWAY	RTE 231	126+41.83	127+24.15	RT	82.32	83.00	-	6.00	0.90	ADA DRIVEWAY CUT THROUGH
491	25 OF 32	RTE 231/BROADWAY	RTE 231	126+34.75	126+78.21	RT	43.46	44.00	-	VARIES	-	ADA DRIVEWAY CUT THROUGH, 9 INCH CURB HEIGHT CURB SHALL BE PLACED ON THE BACK OF THE SIDEWALK AS DIRECTED BY THE ENGINEER, CURB NOT SHOWN ON CROSS SECTIONS
491	25 OF 32	RTE 231/BROADWAY	RTE 231	127+85.30	128+95.44	RT	110.14	111.00	-	6.00	1.20	ADA DRIVEWAY CUT THROUGH
491	25 OF 32	RTE 231/BROADWAY	RTE 231	128+44.11	129+06.10	RT	61.99	-	62.00	VARIES	-	ADA DRIVEWAY CUT THROUGH, 9 INCH CURB HEIGHT CURB SHALL BE PLACED ON THE BACK OF THE SIDEWALK AS DIRECTED BY THE ENGINEER, CURB NOT SHOWN ON CROSS SECTIONS
491	25 OF 32	RTE 231/BROADWAY	RTE 231	130+05.56	130+17.11	RT	11.55	12.00	-	6.00	0.20	ADA DRIVEWAY CUT THROUGH
491	25 OF 32	RTE 231/BROADWAY	RTE 231	129+99.68	130+17.11	RT	17.43	-	18.00	VARIES	-	ADA DRIVEWAY CUT THROUGH, 9 INCH CURB HEIGHT CURB SHALL BE PLACED ON THE BACK OF THE SIDEWALK AS DIRECTED BY THE ENGINEER, CURB NOT SHOWN ON CROSS SECTIONS
491	25 OF 32	RTE 231/BROADWAY	RTE 231	130+97.36	131+32.61	RT	35.25	36.00	-	6.00	0.40	ADA DRIVEWAY CUT THROUGH CURB SHALL BE PLACED ON THE BACK OF THE SIDEWALK AS DIRECTED BY THE ENGINEER, CURB NOT SHOWN ON CROSS SECTIONS
491	25 OF 32	RTE 231/BROADWAY	RTE 231	131+02.12	131+32.63	RT	30.51	-	31.00	VARIES	-	ADA DRIVEWAY CUT THROUGH, 9 INCH CURB HEIGHT
491	25 OF 32	RTE 231/BROADWAY	RTE 231	131+55.31	132+07.24	RT	51.93	52.00	-	6.00	0.60	ADA DRIVEWAY CUT THROUGH
491	25 OF 32	RTE 231/BROADWAY	RTE 231	132+32.85	132+91.02	RT	58.17	59.00	-	6.00	0.60	ADA DRIVEWAY CUT THROUGH
491	25 OF 32	RTE 231/BROADWAY	RTE 231	132+26.03	132+91.02	RT	64.99	-	65.00	VARIES	-	ADA CUT THROUGH ON E CARTWRIGHT, 9 INCH CURB HEIGHT
491	25 OF 32	E CARTWRIGHT	E CARTWRIGHT	210+29.02	210+55.00	RT	26.58	27.00	-	6.00	0.30	TIE TO EXISITNG ON E CARTWIRGHT
491	25 OF 32	RTE 231/BROADWAY	RTE 231	133+96.72	134+05.67	RT	8.95	9.00	-	6.00	0.10	ADA DRIVEWAY CUT THROUGH
491	25 OF 32	RTE 231/BROADWAY	RTE 231	134+26.67	135+53.32	RT	126.65	127.00	-	6.00	1.30	ADA DRIVEWAY CUT THROUGH
491	25 OF 32	E MANN	E MANN	220+34.49	220+48.30	RT	13.81	14.00	-	6.00	0.20	ADA DRIVEWAY CUT THROUGH
491	25 OF 32	RTE 231/BROADWAY	RTE 231	136+01.65	140+17.55	RT	415.90	416.00	-	6.00	4.20	ADA DRIVEWAY CUT THROUGH
491	25 OF 32	RTE 231/BROADWAY	RTE 231	140+55.33	140+89.71	RT	34.38	35.00	-	6.00	0.40	ADA DRIVEWAY CUT THROUGH
491	25 OF 32	RTE 231/BROADWAY	RTE 231	140+55.33	140+95.68	RT	40.35	-	41.00	VARIES	-	ADA DRIVEWAY CUT THROUGH, 9 INCH CURB HEIGHT CURB SHALL BE PLACED ON THE BACK OF THE SIDEWALK AS DIRECTED BY THE ENGINEER, CURB NOT SHOWN ON CROSS SECTIONS
491	25 OF 32	RTE 231/BROADWAY	RTE 231	141+30.63	141+40.56	RT	9.93	-	10.00	VARIES	-	ADA DRIVEWAY CUT THROUGH, 9 INCH CURB HEIGHT
491	25 OF 32	RTE 231/BROADWAY	RTE 231	141+75.38	141+95.58	RT	20.20	-	21.00	VARIES	-	ADA DRIVEWAY CUT THROUGH, 9 INCH CURB HEIGHT
491	25 OF 32	RTE 231/BROADWAY	RTE 231	141+81.23	141+89.44	RT	8.21	9.00	-	6.00	0.10	ADA DRIVEWAY CUT THROUGH
491	25 OF 32	RTE 231/BROADWAY	RTE 231	142+36.39	142+90.32	RT	53.93	54.00	-	6.00	0.60	ADA DRIVEWAY CUT THROUGH
491	25 OF 32	RTE 231/BROADWAY	RTE 231	142+30.07	142+68.67	RT	38.60	-	39.00	VARIES	-	ADA DRIVEWAY CUT THROUGH, 9 INCH CURB HEIGHT CURB SHALL BE PLACED ON THE BACK OF THE SIDEWALK AS DIRECTED BY THE ENGINEER, CURB NOT SHOWN ON CROSS SECTIONS
491	25 OF 32	HOFFMEISTER AVE.	HOFFMEISTER AVE.	240+78.97	240+86.07	RT	7.10	8.00	-	6.00	0.10	-
491	25 OF 32	RTE 231/BROADWAY	RTE 231	143+83.03	144+04.54	RT	21.51	22.00	-	6.00	0.30	-
492	26 OF 32	RTE 231/BROADWAY	RTE 231	140+30.61	141+58.84	LT	128.23	129.00	-	6.00	1.30	ADA RAMP AT MILITARY RD
492	26 OF 32	RTE 231/BROADWAY	RTE 231	140+25.61	141+44.92	LT	120.33	-	121.00	VARIES	-	ADA CROSSING AT W MILITARY RD, 9 INCH CURB HEIGHT CURB SHALL BE PLACED ON THE BACK OF THE SIDEWALK AS DIRECTED BY THE ENGINEER, CURB NOT SHOWN ON CROSS SECTIONS
492	26 OF 32	MILITARY RD	MILITARY RD	235+40.05	235+48.00	LT	7.95	8.00	-	6.00	0.10	SIDE STREET
					TABLE 11 SUBTOTAL			1,514.00	497.00	-	15.90	-

✳ CONTRACTOR CAN SUBSTITUTE THE TYPE S CURB WITH THE MODIFIED INTEGRAL CURB TYPE B SHOWN ON THE TYPICAL SECTIONS

LAYOUT	NS	01/2025
DRAWN	SMC	01/2025
REVIEWED	DJK	01/2025

STATE OF MISSOURI
DENNIS J KOSCIELSKI
NUMBER PE-2005000712
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED 7/25/2025

ROUTE	STATE
231	MO
DISTRICT	SHEET NO.
SL	3

COUNTY ST. LOUIS

JOB NO. J6S3631

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION	DATE

IF A SEAL IS PRESENT ON THIS SHEET, IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

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Professional Engineer 001632
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314.770.0467

SUMMARY OF QUANTITIES
SHEET 46 OF 106

CURB (CONT.)

SHEET NO.	SPECIAL CURB SHEET NO.	ROADWAY	CENTER LINE	STATION FROM	STATION TO	LOCATION	LENGTH	* CONCRETE CURB (6 IN HEIGHT AND UNDER) TYPE S	CONCRETE CURB (OVER 6 IN HEIGHT) TYPE S	CURB HEIGHT	MISC. {LINEAR GRADING CLASS 2-MODIFIED}	REMARKS
							(FT)	(LF)	(LF)	(IN)	(STA.)	
492	26 OF 32	MILITARY RD	MILITARY RD	235+40.05	235+48.00	LT	7.95	-	8.00	VARIES	-	ADA CROSSING AT W MILITARY RD, 9 INCH CURB HEIGHT
492	26 OF 32	MILITARY RD	MILITARY RD	235+39.25	235+48.00	RT	8.75	9.00	-	6.00	0.10	SIDE STREET
492	26 OF 32	MILITARY RD	MILITARY RD	235+39.25	235+48.00	RT	8.75	-	9.00	VARIES	-	ADA DRIVEWAY CUT THROUGH, 9 INCH CURB HEIGHT
492	26 OF 32	RTE 231/BROADWAY	RTE 231	142+11.83	142+37.16	LT	25.33	-	26.00	VARIES	-	ADA DRIVEWAY CUT THROUGH, 9 INCH CURB HEIGHT
492	26 OF 32	RTE 231/BROADWAY	RTE 231	141+91.35	142+50.00	LT	55.40	56.00	-	6.00	0.60	ADA DRIVEWAY CUT THROUGH
492	26 OF 32	E GOETZ AVE.	E GOETZ AVE.	230+17.00	230+49.50	LT	32.50	33.00	-	6.00	0.40	SIDE STREET
492	26 OF 32	E GOETZ AVE.	E GOETZ AVE.	230+17.00	230+48.97	RT	31.97	32.00	-	6.00	0.40	SIDE STREET
492	26 OF 32	RTE 231/BROADWAY	RTE 231	143+59.21	143+72.82	LT	13.61	14.00	-	6.00	0.20	ADA RAMP AT HOFFMEISTER AVE.
492	26 OF 32	RTE 231/BROADWAY	RTE 231	143+59.21	143+72.75	LT	13.54	-	14.00	VARIES	-	ADA CROSSING AT HOFFMEISTER AVE, 9 INCH CURB HEIGHT
492	26 OF 32	HOFFMEISTER AVE.	HOFFMEISTER AVE.	240+67.71	240+85.47	LT	17.76	18.00	-	6.00	0.20	SIDE STREET
492	26 OF 32	HOFFMEISTER AVE.	HOFFMEISTER AVE.	241+89.84	241+96.35	LT	8.57	9.00	-	6.00	0.10	SIDE STREET
492-493	26-27 OF 32	RTE 231/BROADWAY	RTE 231	143+87.81	146+70.73	LT	282.92	283.00	-	6.00	2.90	ADA DRIVEWAY CUT THROUGH
493	27 OF 32	RTE 231/BROADWAY	RTE 231	143+87.81	146+78.76	LT	290.95	-	291.00	VARIES	-	ADA DRIVEWAY CUT THROUGH, 9 INCH CURB HEIGHT CURB SHALL BE PLACED ON THE BACK OF THE SIDEWALK AS DIRECTED BY THE ENGINEER, CURB NOT SHOWN ON CROSS SECTIONS
493	27 OF 32	RTE 231/BROADWAY	RTE 231	147+16.64	147+62.38	LT	45.74	46.00	-	6.00	0.50	ADA DRIVEWAY CUT THROUGH
493	27 OF 32	RTE 231/BROADWAY	RTE 231	147+09.77	147+67.40	LT	57.63	-	58.00	VARIES	-	ADA DRIVEWAY CUT THROUGH, 9 INCH CURB HEIGHT CURB SHALL BE PLACED ON THE BACK OF THE SIDEWALK AS DIRECTED BY THE ENGINEER, CURB NOT SHOWN ON CROSS SECTIONS
493	27 OF 32	RTE 231/BROADWAY	RTE 231	148+41.22	149+23.40	LT	82.18	83.00	-	6.00	0.90	ADA DRIVEWAY CUT THROUGH
493	27 OF 32	RTE 231/BROADWAY	RTE 231	148+32.59	148+68.25	LT	35.66	-	36.00	VARIES	-	ADA DRIVEWAY CUT THROUGH, 9 INCH CURB HEIGHT
493-494	27-28 OF 32	RTE 231/BROADWAY	RTE 231	149+85.03	150+74.11	LT	89.08	90.00	-	6.00	0.90	ADA DRIVEWAY CUT THROUGH
494	28 OF 32	WEISS AVE.	WEISS AVE.	245+26.30	245+79.00	RT	52.70	53.00	-	6.00	0.60	SIDE STREET
494	28 OF 32	RTE 231/BROADWAY	RTE 231	151+34.99	151+42.93	LT	9.07	10.00	-	6.00	0.10	ADA RAMP AT HORN AVE
494	28 OF 32	RTE 231/BROADWAY	RTE 231	152+23.93	152+38.61	LT	14.68	15.00	-	6.00	0.20	ADA RAMP AT HORN AVE
494	28 OF 32	RTE 231/BROADWAY	RTE 231	152+29.33	152+43.58	LT	14.25	-	15.00	VARIES	-	ADA DRIVEWAY CUT THROUGH, 9 INCH CURB HEIGHT
494	28 OF 32	RTE 231/BROADWAY	RTE 231	153+28.49	155+23.45	LT	194.96	195.00	-	6.00	2.00	ADA RAMP AT HORN AVE
495	29 OF 32	HORN AVE.	HORN AVE.	250+41.87	250+56.50	LT	14.63	15.00	-	6.00	0.20	SIDE STREET
495	29 OF 32	HORN AVE.	HORN AVE.	250+37.16	250+56.50	RT	19.34	20.00	-	6.00	0.20	SIDE STREET
495	29 OF 32	RTE 231/BROADWAY	RTE 231	155+80.30	156+20.55	LT	40.25	41.00	-	6.00	0.50	ADA DRIVEWAY CUT THROUGH
495	29 OF 32	RTE 231/BROADWAY	RTE 231	155+79.35	156+20.49	LT	41.14	-	42.00	VARIES	-	ADA DRIVEWAY CUT THROUGH, 9 INCH CURB HEIGHT
495	29 OF 32	RTE 231/BROADWAY	RTE 231	156+50.92	157+75.92	LT	125.00	125.00	-	6.00	1.30	ADA DRIVEWAY CUT THROUGH
495-496	29-30 OF 32	RTE 231/BROADWAY	RTE 231	158+37.36	161+14.55	LT	277.19	278.00	-	6.00	2.80	ADA RAMP AT WALLER AVE
					TABLE 12 SUBTOTAL			1,425.00	499.00	-	15.10	-

✳ CONTRACTOR CAN SUBSTITUTE THE TYPE S CURB WITH THE MODIFIED INTEGRAL CURB TYPE B SHOWN ON THE TYPICAL SECTIONS

SUMMARY OF QUANTITIES
SHEET 47 OF 106

LAYOUT	NS	01/2025
DRAWN	SMC	01/2025
REVIEWED	DJK	01/2025

STATE OF MISSOURI
DENNIS J KOSCIELSKI
NUMBER PE-2005000712
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED
7/25/2025

ROUTE	STATE
231	MO
DISTRICT	SHEET NO.
SL	3

COUNTY
ST. LOUIS

JOB NO.
J6S3631

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION	DATE

IF A SEAL IS PRESENT ON THIS SHEET, IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

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600 Washington Ave., Suite 950
St. Louis, Missouri 63101
Professional Engineer 001632
www.hanson-inc.com
314.770.0467

CURB (CONT.)

SHEET NO.	SPECIAL CURB SHEET NO.	ROADWAY	CENTER LINE	STATION FROM	STATION TO	LOCATION	LENGTH (FT)	* CONCRETE CURB (6 IN HEIGHT AND UNDER) TYPE S (LF)	CONCRETE CURB (OVER 6 IN HEIGHT) TYPE S (LF)	CURB HEIGHT (IN)	MISC. {LINEAR GRADING CLASS 2-MODIFIED} (STA.)	REMARKS
496	30 OF 32	RTE 231/BROADWAY	RTE 231	161+93.20	162+36.48	LT	43.28	-	44.00	VARIES	-	ADA DRIVEWAY CUT THROUGH, 9 INCH CURB HEIGHT
496	30 OF 32	RTE 231/BROADWAY	RTE 231	162+46.67	162+61.81	LT	15.14	-	16.00	VARIES	-	ADA DRIVEWAY CUT THROUGH, 9 INCH CURB HEIGHT
496	30 OF 32	WALLER AVE.	WALLER AVE.	255+30.17	255+50.00	LT	19.83	20.00	-	6.00	0.20	SIDE STREET
496	30 OF 32	WALLER AVE.	WALLER AVE.	255+27.62	255+50.00	RT	22.38	23.00	-	6.00	0.30	SIDE STREET
496	30 OF 32	RTE 231/BROADWAY	RTE 231	161+79.73	164+16.45	LT	236.72	237.00	-	6.00	2.40	ADA DRIVEWAY CUT THROUGH
					TABLE 13 SUBTOTAL			280.00	60.00	-	2.90	-

TABLE 1 SUBTOTAL	1,379.00	643.00	-	14.80
TABLE 2 SUBTOTAL	982.00	861.00	-	10.90
TABLE 3 SUBTOTAL	1,660.00	1,108.00	-	17.80
TABLE 4 SUBTOTAL	1,404.00	317.00	-	15.50
TABLE 5 SUBTOTAL	1,232.00	441.00	-	13.60
TABLE 6 SUBTOTAL	961.00	801.00	-	10.40
TABLE 7 SUBTOTAL	1,596.00	1,326.00	-	16.60
TABLE 8 SUBTOTAL	2,208.00	697.00	-	23.70
TABLE 9 SUBTOTAL	1,126.00	346.00	-	12.40
TABLE 10 SUBTOTAL	1,410.00	656.00	-	14.90
TABLE 11 SUBTOTAL	1,514.00	497.00	-	15.90
TABLE 12 SUBTOTAL	1,425.00	499.00	-	15.10
TABLE 13 SUBTOTAL	280.00	60.00	-	2.90
QUANTITY FROM DRIVEWAY SUMMARY OF QUANTITIES (SHEET 52 OF 106)	893.00	-	-	-
TOTAL	18,070.00	8,252.00	-	184.50
PAY TOTAL	**18,070**	**8,252**	-	**185**

SPECIAL CURB

LOCATION	MISC. {SPECIAL CURB FOR PASSING OBSTACLES} (LF)	REMARKS
LOCATION 1	20	CURB USED TO PROVIDE PEDESTRIAN ACCESS ROUTE AROUND MISC. OBSTACLES AS DIRECTED BY ENGINEER
LOCATION 2	20	CURB USED TO PROVIDE PEDESTRIAN ACCESS ROUTE AROUND MISC. OBSTACLES AS DIRECTED BY ENGINEER
LOCATION 3	20	CURB USED TO PROVIDE PEDESTRIAN ACCESS ROUTE AROUND MISC. OBSTACLES AS DIRECTED BY ENGINEER
LOCATION 4	20	CURB USED TO PROVIDE PEDESTRIAN ACCESS ROUTE AROUND MISC. OBSTACLES AS DIRECTED BY ENGINEER
TOTAL	80	-
PAY TOTAL	**80**	**-**

MISC. CURB

TOTAL	CURB AND GUTTER TYPE A (LF)	REMARKS
VARIES	400	INSTALL AT LOCATIONS IDENTIFIED BY ENGINEER
PAY TOTAL	400	-

✳ CONTRACTOR CAN SUBSTITUTE THE TYPE S CURB WITH THE MODIFIED INTEGRAL CURB TYPE B SHOWN ON THE TYPICAL SECTIONS

SUMMARY OF QUANTITIES
SHEET 48 OF 106

STATE OF MISSOURI
DENNIS J KOSCIELSKI
NUMBER PE-2005000712
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED 7/25/2025
ROUTE 231 | STATE MO
DISTRICT SL | SHEET NO. 3
COUNTY ST. LOUIS
JOB NO. J6S3631
CONTRACT ID.
PROJECT NO.
BRIDGE NO.

IF A SEAL IS PRESENT ON THIS SHEET, IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

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Professional Engineer 001632
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LAYOUT	NS	01/2025
DRAWN	SMC	01/2025
REVIEWED	DJK	01/2025

DRIVEWAY

SHEET NO.	ROW SHEET NO.	ROADWAY	CENTER LINE	STATION	LOCATION	DRIVEWAY NUMBER	COMMERCIAL OR PRIVATE	DRIVEWAY WIDTH (MEASURED IN PLAN VIEW) (FT)	TYPE 5 AGGREGATE FOR BASE (4 IN. THICK) (1 FT. WIDTH) (SQYD)	ASPHALTIC CONCRETE THICKNESS (IN)	ASPHALTIC CONCRETE WIDTH (FT)	ASPHALTIC CONCRETE VOLUME (CY)	ASPHALTIC CONCRETE CONVERSION FACTOR (TONS/CY)	ASPHALTIC CONCRETE MIXTURE PG76-22 (SP125CLP MIX) WITH REINFORCING FIBERS (TONS)	DRIVEWAY AREA (MEASURED IN PLAN VIEW) (SQFT)	TYPE 5 AGGREGATE FOR BASE (4 IN. THICK) (SQYD)	PAVED APPROACH 8 IN. (SQYD)	PAVED APPROACH 8 IN., HIGH EARLY STRENGTH (SQYD)	PAVED APPROACH 7 IN (SQYD)	PAVED APPROACH 7 IN.M HIGH EARLY STRENGTH (SQYD)	LINEAR GRADING CLASS 1 (STA)	CONCRETE CURB (6 IN. HEIGHT AND UNDER) TYPE S (LF)	REMARKS
35	1	RTE 231/TELEGRAPH	RTE 231	14+45.32	LT	1	COMMERICAL	27.4	3.1	8	1	0.7	1.97	1.4	386.3	43.0	43.0	0.0	0.0	0.0	0.2	19	TYPE 1 DRIVEWAY
35	1	RTE 231/TELEGRAPH	RTE 231	15+35.33	RT	2	COMMERICAL	30.0	3.4	8	1	0.8	1.97	1.6	316.5	36.0	36.0	0.0	0.0	0.0	0.1	13	-
35	1	RTE 231/TELEGRAPH	RTE 231	16+09.16	RT	3	PRIVATE	14.0	1.6	8	1	0.4	1.97	0.8	161.1	18.0	0.0	0.0	0.0	18.0	0.1	-	-
35	1	RTE 231/TELEGRAPH	RTE 231	16+80.44	RT	3A	PRIVATE	11.0	1.3	8	1	0.3	1.97	0.6	78.3	9.0	0.0	0.0	0.0	9.0	0.1	-	-
35	1	RTE 231/TELEGRAPH	RTE 231	17+33.03	RT	4	PRIVATE	10.0	1.2	8	1	0.3	1.97	0.6	72.1	9.0	0.0	0.0	0.0	9.0	0.1	-	-
36	2	RTE 231/TELEGRAPH	RTE 231	18+21.67	LT	5	COMMERICAL	41.3	4.6	8	1	1.1	1.97	2.2	395.3	44.0	44.0	0.0	0.0	0.0	0.1	18	TYPE 1 DRIVEWAY
36	2	RTE 231/TELEGRAPH	RTE 231	19+58.76	RT	6	PRIVATE	15.0	1.7	8	1	0.4	1.97	0.8	112.3	13.0	0.0	0.0	13.0	0.0	0.1	-	-
36	2	RTE 231/TELEGRAPH	RTE 231	19+74.77	RT	7	PRIVATE	13.1	1.5	8	1	0.4	1.97	0.8	100.7	12.0	0.0	0.0	0.0	12.0	0.1	-	TYPE 1 DRIVEWAY
36	2	RTE 231/TELEGRAPH	RTE 231	20+67.02	LT	8	PRIVATE	18.7	2.1	8	1	0.5	1.97	1.0	422.2	47.0	0.0	0.0	47.0	0.0	0.4	53	TYPE 1 DRIVEWAY
36	2	RTE 231/TELEGRAPH	RTE 231	21+55.49	LT	9	PRIVATE	11.0	1.3	8	1	0.3	1.97	0.6	87.4	10.0	0.0	0.0	0.0	10.0	0.1	5	-
36	2	RTE 231/TELEGRAPH	RTE 231	21+89.22	LT	10	COMMERICAL	17.0	1.9	8	1	0.5	1.97	1.0	128.9	15.0	15.0	0.0	0.0	0.0	0.1	5	-
36	2	RTE 231/TELEGRAPH	RTE 231	22+35.39	RT	11	PRIVATE	11.3	1.3	8	1	0.3	1.97	0.6	396.8	45.0	0.0	0.0	0.0	45.0	0.5	32	TYPE 1 DRIVEWAY
37	3	RTE 231/TELEGRAPH	RTE 231	22+85.05	RT	12	PRIVATE	11.3	1.3	8	1	0.3	1.97	0.6	397.3	45.0	0.0	0.0	0.0	45.0	0.5	32	TYPE 1 DRIVEWAY
37	3	RTE 231/TELEGRAPH	RTE 231	23+35.22	RT	13	PRIVATE	11.3	1.3	8	1	0.3	1.97	0.6	394.9	44.0	0.0	0.0	0.0	44.0	0.5	32	TYPE 1 DRIVEWAY
37	3	RTE 231/TELEGRAPH	RTE 231	23+68.09	LT	14	COMMERICAL	14.0	1.6	8	1	0.4	1.97	0.8	116.4	13.0	0.0	13.0	0.0	0.0	0.1	3	-
37	3	RTE 231/TELEGRAPH	RTE 231	23+86.57	LT	15	PRIVATE	15.5	1.8	8	1	0.4	1.97	0.8	127.7	15.0	0.0	0.0	15.0	0.0	0.1	3	TYPE 1 DRIVEWAY
37	3	RTE 231/TELEGRAPH	RTE 231	23+87.36	RT	16	PRIVATE	10.5	1.2	8	1	0.3	1.97	0.6	388.6	44.0	0.0	0.0	0.0	44.0	0.5	30	TYPE 1 DRIVEWAY
37	3	RTE 231/TELEGRAPH	RTE 231	24+36.98	RT	17	PRIVATE	11.3	1.3	8	1	0.3	1.97	0.6	394.3	44.0	0.0	0.0	0.0	44.0	0.5	32	TYPE 1 DRIVEWAY
37	3	RTE 231/TELEGRAPH	RTE 231	24+79.63	LT	18	PRIVATE	26.6	3.0	8	1	0.7	1.97	1.4	187.0	21.0	0.0	0.0	21.0	0.0	0.1	2	TYPE 1 DRIVEWAY
37	3	RTE 231/TELEGRAPH	RTE 231	24+87.77	RT	19	PRIVATE	12.4	1.4	8	1	0.4	1.97	0.8	417.0	47.0	0.0	0.0	0	47.0	0.5	31	TYPE 1 DRIVEWAY
37	3	RTE 231/TELEGRAPH	RTE 231	25+39.92	RT	20	PRIVATE	15.9	1.8	8	1	0.4	1.97	0.8	118.6	14.0	0.0	0.0	14.0	0.0	0.1	-	TYPE 1 DRIVEWAY
37	3	RTE 231/TELEGRAPH	RTE 231	26+14.45	LT	21	COMMERICAL	30.2	3.4	8	1	0.8	1.97	1.6	210.9	24.0	24.0	0.0	0.0	0.0	0.1	5	TYPE 1 DRIVEWAY
37	3	RTE 231/TELEGRAPH	RTE 231	27+00.31	RT	22	PRIVATE	10.9	1.3	8	1	0.3	1.97	0.6	395.8	44.0	0.0	0.0	0.0	44.0	0.5	-	TYPE 1 DRIVEWAY
37	3	RTE 231/TELEGRAPH	RTE 231	27+60.00	RT	23	PRIVATE	22.0	2.5	8	1	0.6	1.97	1.2	155.9	18.0	0.0	0.0	18.0	0.0	0.1	-	-
38	4	RTE 231/TELEGRAPH	RTE 231	28+06.81	LT	24	COMMERICAL	28.5	3.2	8	1	0.8	1.97	1.6	222.0	25.0	25.0	0.0	0.0	0.0	0.1	7	TYPE 1 DRIVEWAY
38	4	RTE 231/TELEGRAPH	RTE 231	29+67.50	LT	25	COMMERICAL	39.7	4.5	8	1	1.0	1.97	2.0	246.2	28.0	28.0	0.0	0.0	0.0	0.1	5	TYPE 1 DRIVEWAY
38	4	RTE 231/TELEGRAPH	RTE 231	29+78.59	RT	26	PRIVATE	11.0	1.3	8	1	0.3	1.97	0.6	91.9	11.0	0.0	0.0	0.0	11.0	0.1	-	-
38	4	RTE 231/TELEGRAPH	RTE 231	30+54.64	RT	27	PRIVATE	22.0	2.5	8	1	0.6	1.97	1.2	163.5	19.0	0.0	0.0	19.0	0.0	0.1	-	-
38	4	RTE 231/TELEGRAPH	RTE 231	30+96.80	RT	28	PRIVATE	20.0	2.3	8	1	0.5	1.97	1.0	161.8	18.0	0.0	0.0	18.0	0.0	0.1	-	-
38	4	RTE 231/TELEGRAPH	RTE 231	31+19.82	LT	29	COMMERICAL	32.3	3.6	8	1	0.8	1.97	1.6	655.0	73.0	73.0	0.0	0.0	0.0	0.2	28	TYPE 1 DRIVEWAY
38	4	RTE 231/TELEGRAPH	RTE 231	32+17.50	RT	30	PRIVATE	20.0	2.3	8	1	0.5	1.97	1.0	193.9	22.0	0.0	0.0	22.0	0.0	0.1	-	-
38	4	RTE 231/TELEGRAPH	RTE 231	32+92.72	RT	31	PRIVATE	22.0	2.5	8	1	0.6	1.97	1.2	166.6	19.0	0.0	0.0	19.0	0.0	0.1	-	-
39	5	RTE 231/TELEGRAPH	RTE 231	33+60.07	RT	32	PRIVATE	11.8	1.4	8	1	0.3	1.97	0.6	118.8	14.0	0.0	0.0	0.0	14.0	0.1	-	TYPE 1 DRIVEWAY
39	5	RTE 231/TELEGRAPH	RTE 231	34+04.79	RT	33	PRIVATE	60.0	6.7	8	1	1.5	1.97	3.0	414.6	47.0	0.0	0.0	47.0	0.0	0.1	-	-
39	5	RTE 231/TELEGRAPH	RTE 231	35+19.02	RT	34	COMMERICAL	39.0	4.4	8	1	1.0	1.97	2.0	257.8	29.0	29.0	0.0	0.0	0.0	0.1	-	-
39	5	RTE 231/TELEGRAPH	RTE 231	35+22.45	LT	35	COMMERICAL	54.0	6.0	8	1	1.4	1.97	2.8	355.1	40.0	40.0	0.0	0.0	0.0	0.1	-	-
39	5	RTE 231/TELEGRAPH	RTE 231	35+67.78	LT	36	COMMERICAL	14.0	1.6	8	1	0.4	1.97	0.8	100.7	12.0	0.0	12.0	0.0	0.0	0.1	-	-
39	5	RTE 231/TELEGRAPH	RTE 231	35+90.34	LT	37	COMMERICAL	28.0	3.2	8	1	0.7	1.97	1.4	182.2	21.0	21.0	0.0	0.0	0.0	0.1	-	-
39	5	RTE 231/TELEGRAPH	RTE 231	36+07.26	RT	38	COMMERICAL	28.1	3.2	8	1	0.7	1.97	1.4	199.6	23.0	23.0	0.0	0.0	0.0	0.1	6	TYPE 1 DRIVEWAY
39	5	RTE 231/TELEGRAPH	RTE 231	36+30.68	LT	39	COMMERICAL	29.0	3.3	8	1	0.8	1.97	1.6	328.5	37.0	37.0	0.0	0.0	0.0	0.1	-	-
39	5	RTE 231/TELEGRAPH	RTE 231	37+71.69	RT	40	COMMERICAL	51.2	5.7	8	1	1.3	1.97	2.6	374.9	42.0	42.0	0.0	0.0	0.0	0.1	7	TYPE 1 DRIVEWAY
39	5	RTE 231/TELEGRAPH	RTE 231	37+73.95	LT	41	COMMERICAL	43.0	4.8	8	1	1.1	1.97	2.2	636.0	71.0	71.0	0.0	0.0	0.0	0.2	-	-
40	6	RTE 231/TELEGRAPH	RTE 231	38+69.89	LT	42	COMMERICAL	51.0	5.7	8	1	1.3	1.97	2.6	817.2	91.0	91.0	0.0	0.0	0.0	0.2	-	-
40	6	RTE 231/TELEGRAPH	RTE 231	41+29.84	RT	44	COMMERICAL	29.3	3.3	8	1	0.8	1.97	1.6	270.7	31.0	31.0	0.0	0.0	0.0	0.1	10	TYPE 1 DRIVEWAY
40	6	RTE 231/TELEGRAPH	RTE 231	41+93.10	RT	45	COMMERICAL	30.4	3.4	8	1	0.8	1.97	1.6	272.1	31.0	31.0	0.0	0.0	0.0	0.1	10	TYPE 1 DRIVEWAY
40	6	RTE 231/TELEGRAPH	RTE 231	42+19.75	LT	46	COMMERICAL	42.0	4.7	8	1	1.1	1.97	2.2	308.1	35.0	35.0	0.0	0.0	0.0	0.1	-	-
40	6	RTE 231/TELEGRAPH	RTE 231	42+46.37	RT	47	COMMERICAL	26.0	2.9	8	1	0.7	1.97	1.4	228.8	26.0	26.0	0.0	0.0	0.0	0.1	-	-
41	7	RTE 231/TELEGRAPH	RTE 231	43+89.76	LT	49	COMMERICAL	15.6	1.8	8	1	0.4	1.97	0.8	168.8	19.0	19.0	0.0	0.0	0.0	0.1	-	-
41	7	RTE 231/TELEGRAPH	RTE 231	44+18.59	LT	50	COMMERICAL	18.0	2.0	8	1	0.5	1.97	1.0	184.8	21.0	21.0	0.0	0.0	0.0	0.1	-	-
41	7	RTE 231/TELEGRAPH	RTE 231	44+32.21	RT	51	COMMERICAL	18.0	2.0	8	1	0.5	1.97	1.0	172.2	20.0	20.0	0.0	0.0	0.0	0.1	-	-
							TABLE 1 SUBTOTAL	135.2	-	-	-	-	63.2	-	1,499.0	825.0	25.0	253.0	396.0	8.5	388.0	-

LAYOUT	NS	01/2025
DRAWN	SMC	01/2025
REVIEWED	DJK	01/2025

STATE OF MISSOURI
DENNIS J KOSCIELSKI
NUMBER PE-2005000712
PROFESSIONAL ENGINEER

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DATE PREPARED
7/25/2025

ROUTE	STATE
231	MO
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ST. LOUIS

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SUMMARY OF QUANTITIES
SHEET 49 OF 106

DRIVEWAY (CONT.)

SHEET NO.	ROW SHEET NO.	ROADWAY	CENTER LINE	STATION	LOCATION	DRIVEWAY NUMBER	COMMERCIAL OR PRIVATE	DRIVEWAY WIDTH (MEASURED IN PLAN VIEW) (FT)	TYPE 5 AGGREGATE FOR BASE (4 IN. THICK) (1 FT. WIDTH) (SQYD)	ASPHALTIC CONCRETE THICKNESS (IN)	ASPHALTIC CONCRETE WIDTH (FT)	ASPHALTIC CONCRETE VOLUME (CY)	ASPHALTIC CONCRETE CONVERSION FACTOR (TONS/CY)	ASPHALTIC CONCRETE MIXTURE PG76-22 (SP125CLP MIX) WITH REINFORCING FIBERS (TONS)	DRIVEWAY AREA (MEASURED IN PLAN VIEW) (SQFT)	TYPE 5 AGGREGATE FOR BASE (4 IN. THICK) (SQYD)	PAVED APPROACH 8 IN. (SQYD)	PAVED APPROACH 8 IN., HIGH EARLY STRENGTH (SQYD)	PAVED APPROACH 7 IN (SQYD)	PAVED APPROACH 7 IN.M HIGH EARLY STRENGTH (SQYD)	LINEAR GRADING CLASS 1 (STA)	CONCRETE CURB (6 IN. HEIGHT AND UNDER) TYPE S (LF)	REMARKS
41	7	RTE 231/TELEGRAPH	RTE 231	44+80.20	LT	52	COMMERICAL	12.0	1.4	8	1	0.3	1.97	0.6	157.6	18.0	0.0	18.0	0.0	0.0	0.1	-	-
41	7	RTE 231/TELEGRAPH	RTE 231	45+25.14	LT	53	COMMERICAL	11.0	1.3	8	1	0.3	1.97	0.6	130.7	15.0	0.0	15.0	0.0	0.0	0.1	-	-
41	7	RTE 231/TELEGRAPH	RTE 231	45+69.17	LT	54	COMMERICAL	30.0	3.4	8	1	0.8	1.97	1.6	263.8	30.0	30.0	0.0	0.0	0.0	0.1	10	-
41	7	RTE 231/TELEGRAPH	RTE 231	45+69.92	RT	55	COMMERICAL	30.0	3.4	8	1	0.8	1.97	1.6	263.2	30.0	30.0	0.0	0.0	0.0	0.2	8	-
42	8	RTE 231/KINGSTON	RTE 231	48+61.21	RT	56	COMMERICAL	23.1	2.6	8	1	0.6	1.97	1.2	215.9	24.0	24.0	0.0	0.0	0.0	0.1	-	TYPE 1 DRIVEWAY
42	8	RTE 231/KINGSTON	RTE 231	51+45.18	LT	57	PRIVATE	20.0	2.3	8	1	0.5	1.97	1.0	232.9	26.0	0.0	0.0	26.0	0.0	0.2	-	-
42	8	RTE 231/KINGSTON	RTE 231	52+11.83	LT	58	PRIVATE	8.0	0.9	8	1	0.2	1.97	0.4	136.6	16.0	0.0	0.0	0.0	16.0	0.2	-	-
42	8	RTE 231/KINGSTON	RTE 231	52+24.46	LT	59	PRIVATE	10.0	1.2	8	1	0.3	1.97	0.6	149.0	17.0	0.0	0.0	0.0	17.0	0.2	-	-
42	8	RTE 231/KINGSTON	RTE 231	53+01.98	RT	60	PRIVATE	10.0	1.2	8	1	0.3	1.97	0.6	110.1	13.0	0.0	0.0	0.0	13.0	0.1	-	-
43	9	RTE 231/KINGSTON	RTE 231	53+81.94	LT	61	PRIVATE	10.0	1.2	8	1	0.3	1.97	0.6	118.3	14.0	0.0	0.0	0.0	14.0	0.1	-	-
43	9	RTE 231/KINGSTON	RTE 231	53+95.56	RT	62	PRIVATE	11.0	1.3	8	1	0.3	1.97	0.6	115.8	13.0	0.0	0.0	0.0	13.0	0.1	-	-
43	9	RTE 231/KINGSTON	RTE 231	54+22.36	LT	63	PRIVATE	16.0	1.8	8	1	0.4	1.97	0.8	171.6	20.0	0.0	0.0	20.0	0.0	0.1	-	-
43	9	RTE 231/KINGSTON	RTE 231	54+64.48	LT	64	PRIVATE	10.0	1.2	8	1	0.3	1.97	0.6	122.8	14.0	0.0	0.0	0.0	14.0	0.1	-	-
43	9	RTE 231/KINGSTON	RTE 231	54+83.41	RT	65	PRIVATE	11.0	1.3	8	1	0.3	1.97	0.6	114.1	13.0	0.0	0.0	0.0	13.0	0.1	-	-
43	9	RTE 231/KINGSTON	RTE 231	55+31.33	LT	66	PRIVATE	10.0	1.2	8	1	0.3	1.97	0.6	119.4	14.0	0.0	0.0	0.0	14.0	0.1	-	-
43	9	RTE 231/KINGSTON	RTE 231	55+58.23	RT	67	PRIVATE	10.2	1.2	8	1	0.3	1.97	0.6	111.0	13.0	0.0	0.0	0.0	13.0	0.1	-	TYPE 1 DRIVEWAY
43	9	RTE 231/KINGSTON	RTE 231	55+69.97	LT	68	PRIVATE	11.0	1.3	8	1	0.3	1.97	0.6	121.0	14.0	0.0	0.0	0.0	14.0	0.1	-	-
43	9	RTE 231/KINGSTON	RTE 231	56+10.01	LT	69	PRIVATE	10.0	1.2	8	1	0.3	1.97	0.6	141.5	16.0	0.0	0.0	0.0	16.0	0.1	-	-
43	9	RTE 231/KINGSTON	RTE 231	56+54.90	LT	70	PRIVATE	19.0	2.2	8	1	0.5	1.97	1.0	191.8	22.0	0.0	0.0	22.0	0.0	0.1	-	-
43	9	RTE 231/KINGSTON	RTE 231	56+99.57	RT	71	PRIVATE	11.0	1.3	8	1	0.3	1.97	0.6	104.5	12.0	0.0	0.0	0.0	12.0	0.1	-	-
43	9	RTE 231/KINGSTON	RTE 231	57+28.87	LT	72	PRIVATE	10.0	1.2	8	1	0.3	1.97	0.6	119.9	14.0	0.0	0.0	0.0	14.0	0.1	-	-
43	9	RTE 231/KINGSTON	RTE 231	57+39.76	RT	73	PRIVATE	10.0	1.2	8	1	0.3	1.97	0.6	98.1	11.0	0.0	0.0	0.0	11.0	0.1	-	-
43	9	RTE 231/KINGSTON	RTE 231	57+80.89	RT	74	PRIVATE	10.0	1.2	8	1	0.3	1.97	0.6	97.2	11.0	0.0	0.0	0.0	11.0	0.1	-	-
43	9	RTE 231/KINGSTON	RTE 231	58+20.33	RT	75	PRIVATE	10.0	1.2	8	1	0.3	1.97	0.6	100.8	12.0	0.0	0.0	0.0	12.0	0.1	-	-
44	10	RTE 231/KINGSTON	RTE 231	58+80.17	LT	76	PRIVATE	10.0	1.2	8	1	0.3	1.97	0.6	117.9	14.0	0.0	0.0	0.0	14.0	0.1	-	-
44	10	RTE 231/KINGSTON	RTE 231	58+88.59	RT	77	PRIVATE	10.0	1.2	8	1	0.3	1.97	0.6	94.5	11.0	0.0	0.0	0.0	11.0	0.1	-	-
44	10	RTE 231/KINGSTON	RTE 231	59+25.11	LT	78	PRIVATE	10.0	1.2	8	1	0.3	1.97	0.6	101.4	12.0	0.0	0.0	0.0	12.0	0.1	-	-
44	10	RTE 231/KINGSTON	RTE 231	59+27.64	RT	79	PRIVATE	10.0	1.2	8	1	0.3	1.97	0.6	97.8	11.0	0.0	0.0	0.0	11.0	0.1	-	-
44	10	RTE 231/KINGSTON	RTE 231	59+66.77	RT	80	PRIVATE	10.0	1.2	8	1	0.3	1.97	0.6	102.7	12.0	0.0	0.0	0.0	12.0	0.1	-	-
44	10	RTE 231/KINGSTON	RTE 231	59+69.36	LT	81	PRIVATE	10.0	1.2	8	1	0.3	1.97	0.6	122.0	14.0	0.0	0.0	0.0	14.0	0.1	-	-
44	10	RTE 231/KINGSTON	RTE 231	60+09.38	RT	82	PRIVATE	19.0	2.2	8	1	0.5	1.97	1.0	163.1	19.0	0.0	0.0	19.0	0.0	0.1	-	-
44	10	RTE 231/KINGSTON	RTE 231	60+49.01	LT	83	PRIVATE	19.0	2.2	8	1	0.5	1.97	1.0	188.2	21.0	0.0	0.0	21.0	0.0	0.1	-	-
44	10	RTE 231/KINGSTON	RTE 231	60+53.32	RT	84	PRIVATE	10.0	1.2	8	1	0.3	1.97	0.6	110.5	13.0	0.0	0.0	0.0	13.0	0.1	-	-
44	10	RTE 231/KINGSTON	RTE 231	61+36.75	LT	85	PRIVATE	10.0	1.2	8	1	0.3	1.97	0.6	107.1	12.0	0.0	0.0	0.0	12.0	0.1	-	-
44	10	RTE 231/KINGSTON	RTE 231	61+81.23	LT	86	PRIVATE	9.0	1.0	8	1	0.3	1.97	0.6	99.3	12.0	0.0	0.0	0.0	12.0	0.1	-	-
44	10	RTE 231/KINGSTON	RTE 231	62+30.78	LT	87	PRIVATE	19.0	2.2	8	1	0.5	1.97	1.0	194.0	22.0	0.0	0.0	22.0	0.0	0.1	-	-
44	10	RTE 231/KINGSTON	RTE 231	63+19.79	LT	88	PRIVATE	12.0	1.4	8	1	0.3	1.97	0.6	116.7	13.0	0.0	0.0	0.0	13.0	0.1	-	-
44	10	RTE 231/KINGSTON	RTE 231	63+31.59	LT	89	PRIVATE	10.0	1.2	8	1	0.3	1.97	0.6	108.6	13.0	0.0	0.0	0.0	13.0	0.1	-	-
45	11	RTE 231/KINGSTON	RTE 231	63+78.08	LT	90	PRIVATE	11.0	1.3	8	1	0.3	1.97	0.6	117.7	14.0	0.0	0.0	0.0	14.0	0.1	-	-
45	11	RTE 231/KINGSTON	RTE 231	66+16.85	LT	91	PRIVATE	10.0	1.2	8	1	0.3	1.97	0.6	112.3	13.0	0.0	0.0	0.0	13.0	0.1	-	-
45	11	RTE 231/KINGSTON	RTE 231	66+88.21	RT	92	COMMERICAL	58.0	6.5	8	1	1.5	1.97	3.0	831.6	93.0	93.0	0.0	0.0	0.0	0.2	-	-
45	11	RTE 231/KINGSTON	RTE 231	68+50.95	RT	93	COMMERICAL	48.0	5.4	8	1	1.2	1.97	2.4	647.9	72.0	72.0	0.0	0.0	0.0	0.2	-	-
46	12	RTE 231/KINGSTON	RTE 231	70+12.07	RT	94	COMMERICAL	47.0	5.3	8	1	1.2	1.97	2.4	667.9	75.0	75.0	0.0	0.0	0.0	0.2	-	-
46	12	RTE 231/KINGSTON	RTE 231	72+76.19	RT	95	COMMERICAL	30.0	3.4	8	1	0.8	1.97	1.6	1,119.2	125.0	125.0	0.0	0.0	0.0	1.0	23	-
47	13	RTE 231/KINGSTON	RTE 231	74+23.22	RT	96	COMMERICAL	36.0	4.0	8	1	0.9	1.97	1.8	1,205.4	134.0	134.0	0.0	0.0	0.0	1.0	-	-
47	13	RTE 231/KINGSTON	RTE 231	75+42.57	RT	97	COMMERICAL	36.0	4.0	8	1	0.9	1.97	1.8	897.3	100.0	100.0	0.0	0.0	0.0	0.3	-	-
48	14	RTE 231/KINGSTON	RTE 231	79+25.31	RT	98	COMMERICAL	42.0	4.7	8	1	1.1	1.97	2.2	1,122.7	125.0	125.0	0.0	0.0	0.0	0.3	-	-
48	14	RTE 231/KINGSTON	RTE 231	80+83.40	RT	99	COMMERICAL	33.7	3.8	8	1	0.9	1.97	1.8	306.5	35.0	35.0	0.0	0.0	0.0	0.1	11	TYPE 1 DRIVEWAY
48	14	RTE 231/KINGSTON	RTE 231	82+49.75	RT	100	COMMERICAL	32.1	3.6	8	1	0.8	1.97	1.6	281.4	32.0	32.0	0.0	0.0	0.0	0.1	11	TYPE 1 DRIVEWAY
49	15	RTE 231/KINGSTON	RTE 231	84+15.28	RT	101	COMMERICAL	29.2	3.3	8	1	0.8	1.97	1.6	395.3	44.0	44.0	0.0	0.0	0.0	0.2	17	TYPE 1 DRIVEWAY
							TABLE 2 SUBTOTAL	104.0	-	-	-	-	48.8	-	1,463.0	919.0	33.0	130.0	381.0	8.0	80.0	-

LAYOUT	NS	01/2025
DRAWN	SMC	01/2025
REVIEWED	DJK	01/2025

SUMMARY OF QUANTITIES
SHEET 50 OF 106

STATE OF MISSOURI
DENNIS J KOSCIELSKI
NUMBER PE-2005000712
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED
7/25/2025

ROUTE	STATE
231	MO
DISTRICT	SHEET NO.
SL	3

COUNTY
ST. LOUIS

JOB NO.
J6S3631

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION	DATE

IF A SEAL IS PRESENT ON THIS SHEET, IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

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DRIVEWAY (CONT.)

SHEET NO.	ROW SHEET NO.	ROADWAY	CENTER LINE	STATION	LOCATION	DRIVEWAY NUMBER	COMMERCIAL OR PRIVATE	DRIVEWAY WIDTH (MEASURED IN PLAN VIEW) (FT)	TYPE 5 AGGREGATE FOR BASE (4 IN. THICK) (1 FT. WIDTH) (SQYD)	ASPHALTIC CONCRETE THICKNESS (IN)	ASPHALTIC CONCRETE WIDTH (FT)	ASPHALTIC CONCRETE VOLUME (CY)	ASPHALTIC CONCRETE CONVERSION FACTOR (TONS/CY)	ASPHALTIC CONCRETE MIXTURE PG76-22 (SP125CLP MIX) WITH REINFORCING FIBERS (TONS)	DRIVEWAY AREA (MEASURED IN PLAN VIEW) (SQFT)	TYPE 5 AGGREGATE FOR BASE (4 IN. THICK) (SQYD)	PAVED APPROACH 8 IN. (SQYD)	PAVED APPROACH 8 IN., HIGH EARLY STRENGTH (SQYD)	PAVED APPROACH 7 IN (SQYD)	PAVED APPROACH 7 IN.M HIGH EARLY STRENGTH (SQYD)	LINEAR GRADING CLASS 1 (STA)	CONCRETE CURB (6 IN. HEIGHT AND UNDER) TYPE S (LF)	REMARKS
49	15	RTE 231/KINGSTON	RTE 231	87+00.80	RT	102	COMMERICAL	25.6	2.9	8	1	0.7	1.97	1.4	445.6	50.0	50.0	0.0	0.0	0.0	0.2	-	TYPE 1 DRIVEWAY
49	15	RTE 231/KINGSTON	RTE 231	88+61.31	LT	103	COMMERICAL	41.0	4.6	8	1	1.1	1.97	2.2	837.9	94.0	94.0	0.0	0.0	0.0	0.2	4	-
50	16	RTE 231/KINGSTON	RTE 231	90+93.98	RT	104	COMMERICAL	28.9	3.3	8	1	0.8	1.97	1.6	194.2	22.0	22.0	0.0	0.0	0.0	0.1	-	TYPE 1 DRIVEWAY
50	16	RTE 231/KINGSTON	RTE 231	91+32.09	LT	105	COMMERICAL	15.0	1.7	8	1	0.4	1.97	0.8	383.6	43.0	43.0	0.0	0.0	0.0	0.1	5	-
50	16	RTE 231/KINGSTON	RTE 231	92+16.12	LT	106	COMMERICAL	48.0	5.4	8	1	1.2	1.97	2.4	547.5	61.0	61.0	0.0	0.0	0.0	0.1	7	-
50	16	RTE 231/KINGSTON	RTE 231	92+53.18	LT	107	PRIVATE	11.0	1.3	8	1	0.3	1.97	0.6	140.6	16.0	0.0	0.0	0.0	16.0	0.2	-	-
50	16	RTE 231/KINGSTON	RTE 231	93+12.50	RT	108	COMMERICAL	29.6	3.3	8	1	0.8	1.97	1.6	204.3	23.0	23.0	0.0	0.0	0.0	0.1	3	TYPE 1 DRIVEWAY
50	16	RTE 231/KINGSTON	RTE 231	93+24.80	LT	109	PRIVATE	15.0	1.7	8	1	0.4	1.97	0.8	305.5	34.0	0.0	0.0	0.0	34.0	0.2	-	-
50	16	RTE 231/KINGSTON	RTE 231	93+78.60	RT	110	COMMERICAL	26.5	3.0	8	1	0.7	1.97	1.4	188.1	21.0	21.0	0.0	0.0	0.0	0.1	-	TYPE 1 DRIVEWAY
51	17	RTE 231/KINGSTON	RTE 231	94+25.89	LT	111	PRIVATE	22.0	2.5	8	1	0.6	1.97	1.2	364.4	41.0	0.0	0.0	41.0	0.0	0.2	-	-
51	17	RTE 231/KINGSTON	RTE 231	94+49.36	RT	112	COMMERICAL	57.8	6.5	8	1	1.5	1.97	3.0	423.9	48.0	48.0	0.0	0.0	0.0	0.1	-	TYPE 1 DRIVEWAY
51	17	RTE 231/KINGSTON	RTE 231	95+25.41	LT	113	PRIVATE	18.0	2.0	8	1	0.5	1.97	1.0	278.4	31.0	0.0	0.0	31.0	0.0	0.2	-	-
51	17	RTE 231/KINGSTON	RTE 231	95+58.67	RT	114	COMMERICAL	58.6	6.6	8	1	1.5	1.97	3.0	395.2	44.0	44.0	0.0	0.0	0.0	0.1	4	TYPE 1 DRIVEWAY
51	17	RTE 231/KINGSTON	RTE 231	96+24.36	LT	115	PRIVATE	16.0	1.8	8	1	0.4	1.97	0.8	281.5	32.0	0.0	0.0	32.0	0.0	0.2	-	-
51	17	RTE 231/KINGSTON	RTE 231	97+24.32	LT	116	PRIVATE	16.0	1.8	8	1	0.4	1.97	0.8	282.4	32.0	0.0	0.0	32.0	0.0	0.2	-	-
51	17	RTE 231/KINGSTON	RTE 231	98+24.58	LT	117	PRIVATE	16.0	1.8	8	1	0.4	1.97	0.8	248.2	28.0	0.0	0.0	28.0	0.0	0.2	-	-
51	17	RTE 231/KINGSTON	RTE 231	99+21.10	LT	118	PRIVATE	11.0	1.3	8	1	0.3	1.97	0.6	160.2	18.0	0.0	0.0	0.0	18.0	0.1	-	-
52	18	RTE 231/BROADWAY	RTE 231	99+70.85	LT	119	PRIVATE	10.0	1.2	8	1	0.3	1.97	0.6	100.0	12.0	0.0	0.0	0.0	12.0	0.1	-	-
52	18	RTE 231/BROADWAY	RTE 231	101+01.83	LT	120	COMMERICAL	33.0	3.7	8	1	0.9	1.97	1.8	279.1	32.0	32.0	0.0	0.0	0.0	0.1	-	-
52	18	RTE 231/BROADWAY	RTE 231	101+77.12	RT	121	COMMERICAL	38.0	4.3	8	1	1.0	1.97	2.0	312.0	35.0	35.0	0.0	0.0	0.0	0.1	10	-
52	18	RTE 231/BROADWAY	RTE 231	102+09.38	LT	122	COMMERICAL	31.0	3.5	8	1	0.8	1.97	1.6	260.5	29.0	29.0	0.0	0.0	0.0	0.1	-	-
52	18	RTE 231/BROADWAY	RTE 231	102+57.61	LT	123	COMMERICAL	20.5	2.3	8	1	0.6	1.97	1.2	170.1	19.0	19.0	0.0	0.0	0.0	0.1	-	TYPE 1 DRIVEWAY
52	18	RTE 231/BROADWAY	RTE 231	102+91.33	RT	124	COMMERICAL	35.0	3.9	8	1	0.9	1.97	1.8	323.9	36.0	36.0	0.0	0.0	0.0	0.1	11	-
52	18	RTE 231/BROADWAY	RTE 231	103+55.17	LT	125	PRIVATE	14.8	1.7	8	1	0.4	1.97	0.8	107.9	12.0	0.0	0.0	12.0	0.0	0.1	-	TYPE 1 DRIVEWAY
52	18	RTE 231/BROADWAY	RTE 231	104+21.38	RT	126	COMMERICAL	22.0	2.5	8	1	0.6	1.97	1.2	143.7	16.0	16.0	0.0	0.0	0.0	0.1	-	-
52	18	RTE 231/BROADWAY	RTE 231	104+22.96	LT	127	PRIVATE	13.0	1.5	8	1	0.4	1.97	0.8	87.1	10.0	0.0	0.0	0.0	10.0	0.1	-	-
53	19	RTE 231/BROADWAY	RTE 231	104+67.31	RT	128	PRIVATE	14.0	1.6	8	1	0.4	1.97	0.8	110.2	13.0	0.0	0.0	0.0	13.0	0.1	-	-
53	19	RTE 231/BROADWAY	RTE 231	105+25.13	LT	129	PRIVATE	13.0	1.5	8	1	0.4	1.97	0.8	126.0	15.0	0.0	0.0	0.0	15.0	0.1	-	-
53	19	RTE 231/BROADWAY	RTE 231	105+43.19	RT	130	PRIVATE	19.0	2.2	8	1	0.5	1.97	1.0	141.5	16.0	0.0	0.0	16.0	0.0	0.1	-	-
53	19	RTE 231/BROADWAY	RTE 231	106+24.81	RT	131	COMMERICAL	20.0	2.3	8	1	0.5	1.97	1.0	142.9	16.0	16.0	0.0	0.0	0.0	0.1	-	-
53	19	RTE 231/BROADWAY	RTE 231	106+51.55	LT	132	PRIVATE	20.0	2.3	8	1	0.5	1.97	1.0	145.7	17.0	0.0	0.0	17.0	0.0	0.1	-	-
53	19	RTE 231/BROADWAY	RTE 231	106+62.87	RT	133	COMMERICAL	25.8	2.9	8	1	0.7	1.97	1.4	196.6	22.0	22.0	0.0	0.0	0.0	0.1	-	TYPE 1 DRIVEWAY
53	19	RTE 231/BROADWAY	RTE 231	109+09.29	LT	134	COMMERICAL	12.0	1.4	8	1	0.3	1.97	0.6	99.7	12.0	0.0	12.0	0.0	0.0	0.1	-	TYPE 1 DRIVEWAY
54	20	RTE 231/BROADWAY	RTE 231	109+82.08	RT	135	COMMERICAL	32.0	3.6	8	1	0.8	1.97	1.6	234.7	27.0	27.0	0.0	0.0	0.0	0.1	6	-
54	20	RTE 231/BROADWAY	RTE 231	110+15.68	LT	136	COMMERICAL	19.0	2.2	8	1	0.5	1.97	1.0	158.2	18.0	18.0	0.0	0.0	0.0	0.1	-	-
54	20	RTE 231/BROADWAY	RTE 231	110+78.36	LT	137	PRIVATE	26.0	2.9	8	1	0.7	1.97	1.4	185.3	21.0	0.0	0.0	21.0	0.0	0.1	-	-
54	20	RTE 231/BROADWAY	RTE 231	111+94.98	LT	138	PRIVATE	16.0	1.8	8	1	0.4	1.97	0.8	113.2	13.0	0.0	0.0	13.0	0.0	0.1	-	-
54	20	RTE 231/BROADWAY	RTE 231	112+37.08	RT	139	COMMERICAL	45.2	5.1	8	1	1.2	1.97	2.4	423.5	48.0	48.0	0.0	0.0	0.0	0.1	-	TYPE 1 DRIVEWAY
54	20	RTE 231/BROADWAY	RTE 231	112+90.26	LT	140	COMMERICAL	62.2	7.0	8	1	1.6	1.97	3.2	451.5	51.0	51.0	0.0	0.0	0.0	0.1	-	TYPE 1 DRIVEWAY
54	20	RTE 231/BROADWAY	RTE 231	114+14.30	RT	141	COMMERICAL	45.0	5.0	8	1	1.2	1.97	2.4	327.2	37.0	37.0	0.0	0.0	0.0	0.1	-	-
54	20	RTE 231/BROADWAY	RTE 231	114+18.67	LT	142	PRIVATE	9.6	1.1	8	1	0.3	1.97	0.6	88.6	10.0	0.0	0.0	0.0	10.0	0.1	-	TYPE 1 DRIVEWAY
55	21	RTE 231/BROADWAY	RTE 231	114+65.61	LT	143	PRIVATE	20.0	2.3	8	1	0.5	1.97	1.0	140.9	16.0	0.0	0.0	16.0	0.0	0.1	-	-
55	21	RTE 231/BROADWAY	RTE 231	114+81.82	RT	143A	COMMERICAL	50.9	5.7	8	1	1.3	1.97	2.6	330.0	37.0	37.0	0.0	0.0	0.0	0.1	-	TYPE 1 DRIVEWAY
55	21	RTE 231/BROADWAY	RTE 231	115+47.97	LT	144	PRIVATE	15.0	1.7	8	1	0.4	1.97	0.8	108.0	12.0	0.0	0.0	12.0	0.0	0.1	-	-
55	21	RTE 231/BROADWAY	RTE 231	115+49.55	RT	145	COMMERICAL	36.1	4.1	8	1	0.9	1.97	1.8	229.8	26.0	26.0	0.0	0.0	0.0	0.1	-	TYPE 1 DRIVEWAY
55	21	RTE 231/BROADWAY	RTE 231	117+53.00	LT	146	PRIVATE	9.0	1.0	8	1	0.3	1.97	0.6	58.2	7.0	0.0	0.0	0.0	7.0	0.1	-	-
55	21	RTE 231/BROADWAY	RTE 231	117+55.23	RT	147	COMMERICAL	29.2	3.3	8	1	0.8	1.97	1.6	225.2	26.0	26.0	0.0	0.0	0.0	0.1	-	TYPE 1 DRIVEWAY
55	21	RTE 231/BROADWAY	RTE 231	118+02.68	RT	148	COMMERICAL	28.0	3.2	8	1	0.7	1.97	1.4	203.5	23.0	23.0	0.0	0.0	0.0	0.1	4	-
55	21	RTE 231/BROADWAY	RTE 231	119+76.08	RT	149	COMMERICAL	33.0	3.7	8	1	0.9	1.97	1.8	242.0	27.0	27.0	0.0	0.0	0.0	0.1	-	-
56	22	RTE 231/BROADWAY	RTE 231	120+72.31	RT	150	PRIVATE	11.0	1.3	8	1	0.3	1.97	0.6	92.0	11.0	0.0	0.0	0.0	11.0	0.1	-	-
							TABLE 3 SUBTOTAL	145.3	-	-	-	-	68.0	-	1,360.0	931.0	12.0	305.0	112.0	5.9	54.0	-	

LAYOUT	NS	01/2025
DRAWN	SMC	01/2025
REVIEWED	DJK	01/2025

SUMMARY OF QUANTITIES
SHEET 51 OF 106

STATE OF MISSOURI
DENNIS J KOSCIELSKI
NUMBER PE-2005000712
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED
7/25/2025

ROUTE	STATE
231	MO
DISTRICT	SHEET NO.
SL	3

COUNTY
ST. LOUIS

JOB NO.
J6S3631

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION	DATE

IF A SEAL IS PRESENT ON THIS SHEET, IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

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DRIVEWAY (CONT.)

SHEET NO.	ROW SHEET NO.	ROADWAY	CENTER LINE	STATION	LOCATION	DRIVEWAY NUMBER	COMMERCIAL OR PRIVATE	DRIVEWAY WIDTH (MEASURED IN PLAN VIEW) (FT)	TYPE 5 AGGREGATE FOR BASE (4 IN. THICK) (1 FT. WIDTH) (SQYD)	ASPHALTIC CONCRETE THICKNESS (IN)	ASPHALTIC CONCRETE WIDTH (FT)	ASPHALTIC CONCRETE VOLUME (CY)	ASPHALTIC CONCRETE CONVERSION FACTOR (TONS/CY)	ASPHALTIC CONCRETE MIXTURE PG76-22 (SP125CLP MIX) WITH REINFORCING FIBERS (TONS)	DRIVEWAY AREA (MEASURED IN PLAN VIEW) (SQFT)	TYPE 5 AGGREGATE FOR BASE (4 IN. THICK) (SQYD)	PAVED APPROACH 8 IN. (SQYD)	PAVED APPROACH 8 IN., HIGH EARLY STRENGTH (SQYD)	PAVED APPROACH 7 IN (SQYD)	PAVED APPROACH 7 IN.M HIGH EARLY STRENGTH (SQYD)	LINEAR GRADING CLASS 1 (STA)	CONCRETE CURB (6 IN. HEIGHT AND UNDER) TYPE S (LF)	REMARKS
		31/BROADWAY	RTE 231	121+02.91	RT	151	PRIVATE	11.0	1.3	8	1	0.3	1.97	0.6	88.2	10.0	0.0	0.0	0.0	10.0	0.1	-	-
		31/BROADWAY	RTE 231	121+38.23	RT	152	PRIVATE	12.0	1.4	8	1	0.3	1.97	0.6	96.8	11.0	0.0	0.0	0.0	11.0	0.1	-	-
		31/BROADWAY	RTE 231	121+99.31	LT	153	PRIVATE	9.9	1.1	8	1	0.3	1.97	0.6	101.4	12.0	0.0	0.0	0.0	12.0	0.1	-	TYPE 1 DRIVEWAY
		31/BROADWAY	RTE 231	122+47.13	RT	154	COMMERCIAL	32.0	3.6	8	1	0.8	1.97	1.6	205.1	23.0	23.0	0.0	0.0	0.0	0.1	-	-
		31/BROADWAY	RTE 231	122+73.40	RT	155	COMMERCIAL	10.0	1.2	8	1	0.3	1.97	0.6	78.1	9.0	0.0	9.0	0.0	0.0	0.1	-	-
		31/BROADWAY	RTE 231	124+73.07	LT	156	COMMERCIAL	30.1	3.4	8	1	0.8	1.97	1.6	214.1	24.0	24.0	0.0	0.0	0.0	0.1	-	TYPE 1 DRIVEWAY
		31/BROADWAY	RTE 231	125+42.02	RT	157	COMMERCIAL	23.7	2.7	8	1	0.6	1.97	1.2	179.3	20.0	20.0	0.0	0.0	0.0	0.1	-	TYPE 1 DRIVEWAY
		31/BROADWAY	RTE 231	126+15.70	LT	158	COMMERCIAL	26.0	2.9	8	1	0.7	1.97	1.4	184.2	21.0	21.0	0.0	0.0	0.0	0.1	-	-
		31/BROADWAY	RTE 231	126+24.46	RT	159	COMMERCIAL	20.0	2.3	8	1	0.5	1.97	1.0	153.4	18.0	18.0	0.0	0.0	0.0	0.1	-	-
		31/BROADWAY	RTE 231	129+14.58	LT	160	COMMERCIAL	41.0	4.6	8	1	1.1	1.97	2.2	291.9	33.0	33.0	0.0	0.0	0.0	0.1	-	-
		31/BROADWAY	RTE 231	129+22.26	RT	161	COMMERCIAL	38.0	4.3	8	1	1.0	1.97	2.0	312.3	35.0	35.0	0.0	0.0	0.0	0.1	-	-
		31/BROADWAY	RTE 231	129+71.90	RT	162	COMMERCIAL	56.0	6.3	8	1	1.4	1.97	2.8	312.3	35.0	35.0	0.0	0.0	0.0	0.1	-	-
		31/BROADWAY	RTE 231	129+74.62	LT	163	COMMERCIAL	25.0	2.8	8	1	0.7	1.97	1.4	181.7	21.0	21.0	0.0	0.0	0.0	0.1	-	-
		31/BROADWAY	RTE 231	130+52.39	LT	164	COMMERCIAL	39.0	4.4	8	1	1.0	1.97	2.0	258.5	29.0	29.0	0.0	0.0	0.0	0.1	-	-
		31/BROADWAY	RTE 231	131+43.94	RT	165	PRIVATE	10.7	1.2	8	1	0.3	1.97	0.6	85.0	10.0	0.0	0.0	0.0	10.0	0.1	-	TYPE 1 DRIVEWAY
		31/BROADWAY	RTE 231	132+20.37	RT	166	PRIVATE	12.0	1.4	8	1	0.3	1.97	0.6	83.5	10.0	0.0	0.0	0.0	10.0	0.1	-	-
		31/BROADWAY	RTE 231	133+84.28	RT	167	PRIVATE	11.0	1.3	8	1	0.3	1.97	0.6	75.9	9.0	0.0	0.0	0.0	9.0	0.1	-	-
		31/BROADWAY	RTE 231	134+16.13	RT	168	PRIVATE	7.0	0.8	8	1	0.2	1.97	0.4	56.1	7.0	0.0	0.0	0.0	7.0	0.1	-	-
		31/BROADWAY	RTE 231	140+12.54	LT	169	COMMERCIAL	27.0	3.0	8	1	0.7	1.97	1.4	185.0	21.0	21.0	0.0	0.0	0.0	0.1	-	-
		31/BROADWAY	RTE 231	141+13.83	RT	170	COMMERCIAL	34.0	3.8	8	1	0.9	1.97	1.8	238.6	27.0	27.0	0.0	0.0	0.0	0.1	6	-
		31/BROADWAY	RTE 231	141+57.84	RT	171	COMMERCIAL	34.0	3.8	8	1	0.9	1.97	1.8	242.5	27.0	27.0	0.0	0.0	0.0	0.1	6	-
		31/BROADWAY	RTE 231	142+12.72	RT	172	COMMERCIAL	33.0	3.7	8	1	0.9	1.97	1.8	241.7	27.0	27.0	0.0	0.0	0.0	0.1	6	-
		31/BROADWAY	RTE 231	142+69.00	LT	173	COMMERCIAL	28.0	3.2	8	1	0.7	1.97	1.4	195.1	22.0	22.0	0.0	0.0	0.0	0.1	-	TYPE 1 DRIVEWAY
		31/BROADWAY	RTE 231	146+94.71	LT	174	COMMERCIAL	28.0	3.2	8	1	0.7	1.97	1.4	213.5	24.0	24.0	0.0	0.0	0.0	0.1	7	-
		31/BROADWAY	RTE 231	147+99.50	LT	175	COMMERCIAL	64.0	7.2	8	1	1.6	1.97	3.2	451.2	51.0	51.0	0.0	0.0	0.0	0.1	-	-
		31/BROADWAY	RTE 231	149+55.76	LT	176	COMMERCIAL	48.6	5.4	8	1	1.2	1.97	2.4	340.9	38.0	38.0	0.0	0.0	0.0	0.1	4	TYPE 1 DRIVEWAY
		31/BROADWAY	RTE 231	151+03.32	LT	177	COMMERCIAL	48.6	5.4	8	1	1.2	1.97	2.4	344.2	39.0	39.0	0.0	0.0	0.0	0.1	-	TYPE 1 DRIVEWAY
		31/BROADWAY	RTE 231	151+54.05	LT	178	COMMERCIAL	18.1	2.1	8	1	0.5	1.97	1.0	311.2	35.0	35.0	0.0	0.0	0.0	0.2	-	TYPE 1 DRIVEWAY
		31/BROADWAY	RTE 231	152+82.87	LT	179	COMMERCIAL	79.0	8.8	8	1	2.0	1.97	4.0	563.1	63.0	63.0	0.0	0.0	0.0	0.1	-	-
		31/BROADWAY	RTE 231	156+35.51	LT	180	PRIVATE	11.0	1.3	8	1	0.3	1.97	0.6	95.4	11.0	0.0	0.0	0.0	11.0	0.1	-	-
		31/BROADWAY	RTE 231	158+08.65	LT	181	COMMERCIAL	34.6	3.9	8	1	0.9	1.97	1.8	211.5	24.0	24.0	0.0	0.0	0.0	0.1	-	TYPE 1 DRIVEWAY
		31/BROADWAY	RTE 231	164+44.47	LT	182	COMMERCIAL	28.5	3.2	8	1	0.8	1.97	1.6	184.5	21.0	21.0	0.0	0.0	0.0	0.1	4	TYPE 1 DRIVEWAY
		31/BROADWAY	RTE 231	165+55.28	RT	183	COMMERCIAL	29.0	3.3	8	1	0.8	1.97	1.6	311.9	35.0	35.0	0.0	0.0	0.0	0.1	14	-
		31/BROADWAY	RTE 231	165+66.65	LT	184	COMMERCIAL	31.0	3.5	8	1	0.8	1.97	1.6	215.4	24.0	24.0	0.0	0.0	0.0	0.1	5	-
		31/BROADWAY	RTE 231	166+27.04	LT	185	COMMERCIAL	30.0	3.4	8	1	0.8	1.97	1.6	216.9	25.0	25.0	0.0	0.0	0.0	0.1	5	-
		RTE 231	RTE 231	-	-	-	COMMERCIAL	2700.0	300.0	8	2	133.4	1.97	262.8	20000.0	2223.0	-	-	-	-	-	-	PAVEMENT ADJACENT TO SIDEWALK IN PARKING LOT INSTALL AS DIRECTED BY ENGINEER
							OPTIONAL LOCATION 1	33.7	3.8	8	1	0.9	1.97	1.8	647.4	72.0	0.0	0.0	72.0	0.0	0.2	64	OPTIONAL DRIVEWAY MODIFICATIONS
							OPTIONAL LOCATION 2	34.4	3.9	8	1	0.9	1.97	1.8	646.0	72.0	0.0	0.0	72.0	0.0	0.2	64	
							OPTIONAL LOCATION 3	35.8	4.0	8	1	0.9	1.97	1.8	649.7	73.0	0.0	0.0	73.0	0.0	0.2	64	
							OPTIONAL LOCATION 4	29.2	3.3	8	1	0.8	1.97	1.6	568.4	64.0	0.0	0.0	64.0	0.0	0.2	62	
							OPTIONAL LOCATION 5	30	3.4	8	1	0.8	1.97	1.6	651.5	73.0	0.0	0.0	73.0	0.0	0.2	60	
							TABLE 4 SUBTOTAL		433.6	-	-	-	-	324.6	-	3,428.0	762.0	9.0	354.0	80.0	4.6	371.0	-
							TABLE 1 SUBTOTAL		135.2	-	-	-	-	63.2	-	1,518.0	825.0	25.0	253.0	415.0	8.5	388.0	
							TABLE 2 SUBTOTAL		104.0	-	-	-	-	48.8	-	1,463.0	919.0	33.0	130.0	381.0	8.0	80.0	
							TABLE 3 SUBTOTAL		145.3	-	-	-	-	68.0	-	1,360.0	931.0	12.0	305.0	112.0	5.9	54.0	
							TABLE 4 SUBTOTAL		433.6	-	-	-	-	324.6	-	3,428.0	762.0	9.0	354.0	80.0	4.6	371.0	
							TOTAL		818.1	-	-	-	-	504.6	-	7,769.0	3,437.0	79.0	1,042.0	988.0	27.0	893.0	
							PAY TOTAL		**SEE SHEET 34 OF 106**	-	-	-	-	**SEE SHEET 35 OF 106**	-	**SEE SHEET 34 OF 106**	**3,437**	**79**	**1,042**	**988**	**27**	**SEE SHEET 48 OF 106**	

LAYOUT	NS	01/2025
DRAWN	SMC	01/2025
REVIEWED	DJK	01/2025

SUMMARY OF QUANTITIES
SHEET 52 OF 106

STATE OF MISSOURI
DENNIS J KOSCIELSKI
NUMBER PE-2005000712
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED
7/25/2025

ROUTE	STATE
231	MO
DISTRICT	SHEET NO.
SL	3

COUNTY
ST. LOUIS

JOB NO.
J6S3631

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION	DATE

IF A SEAL IS PRESENT ON THIS SHEET, IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

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SIDEWALK AND ADA RAMPS

SHEET NO.	SPECIAL CURB DESIGN SHEET NO.	FROM STATION	TO STATION	ROADWAY	CENTERLINE	LOCATION	LENGTH (FT)	SIDEWALK WIDTH (FT)	SUGGESTED ADA RAMP TYPE	APPROX. ADA RAMP AREA (SQ YD)	ESTIMATED TYPE A CURB FOR ADA RAMP (LF)	TRUNCATED DOMES (SQ FT)	MISC. {CONCRETE CURB RAMP} (EA)	CONCRETE SIDEWALK, 4 IN. (SQ YD)	TYPE 5 AGGREGATE FOR BASE (4 IN. THICK) (SQ YD)	REMARKS
467	1 OF 32	13+73.51	13+95.65	RTE 231/TELEGRAPH	RTE 231	LT	22.20	5.00	-	-	-	-	-	12.40	13	-
467	1 OF 32	13+95.65	14+13.21	RTE 231/TELEGRAPH	RTE 231	LT	17.60	6.00	-	-	-	-	-	11.80	12	-
467	1 OF 32	13+73.62	13+96.58	RTE 231/TELEGRAPH	RTE 231	RT	23.00	6.00	-	-	-	-	-	15.40	16	TRANSITION SIDEWALK TO DRIVEWAY
467	1 OF 32	13+96.58	15+02.48	RTE 231/TELEGRAPH	RTE 231	RT	105.90	6.00	-	-	-	-	-	70.60	71	-
467	1 OF 32	14+13.21	14+28.95	RTE 231/TELEGRAPH	RTE 231	LT	15.80	6.00	-	-	-	-	-	10.60	11	TRANSITION SIDEWALK TO DRIVEWAY
467	1 OF 32	14+61.69	14+77.45	RTE 231/TELEGRAPH	RTE 231	LT	15.80	6.00	-	-	-	-	-	10.60	11	TRANSITION SIDEWALK TO DRIVEWAY
467	1 OF 32	14+77.45	15+92.74	RTE 231/TELEGRAPH	RTE 231	LT	115.30	6.00	-	-	-	-	-	76.90	77	-
467	1 OF 32	15+02.48	15+18.23	RTE 231/TELEGRAPH	RTE 231	RT	15.80	6.00	-	-	-	-	-	10.60	11	TRANSITION SIDEWALK TO DRIVEWAY
467	1 OF 32	15+52.41	15+68.15	RTE 231/TELEGRAPH	RTE 231	RT	15.80	6.00	-	-	-	-	-	10.60	11	TRANSITION SIDEWALK TO DRIVEWAY
467	1 OF 32	15+68.15	15+86.85	RTE 231/TELEGRAPH	RTE 231	RT	18.70	6.00	-	-	-	-	-	12.50	13	-
467	1 OF 32	15+86.85	16+00.84	RTE 231/TELEGRAPH	RTE 231	RT	14.00	6.00	-	-	-	-	-	9.40	10	TRANSITION SIDEWALK TO DRIVEWAY
467	1 OF 32	15+92.74	16+14.22	RTE 231/TELEGRAPH	RTE 231	LT	21.50	6.00	SMALL RADIUS PERPENDICULAR	14.80	22	12	1	-	15	AT FRANRU LN
467	1 OF 32	10+46.38	10+57.99	FRANRU	FRANRU	LT	11.70	5.00	-	-	-	-	-	6.50	7	-
467	1 OF 32	10+50.87	10+70.34	FRANRU	FRANRU	RT	19.50	5.00	-	-	-	-	-	10.90	11	-
467	1 OF 32	16+15.76	16+33.61	RTE 231/TELEGRAPH	RTE 231	RT	17.90	6.00	-	-	-	-	-	12.00	12	TRANSITION SIDEWALK TO DRIVEWAY
467	1 OF 32	16+33.61	16+61.95	RTE 231/TELEGRAPH	RTE 231	RT	28.40	6.00	-	-	-	-	-	19.00	19	-
467	1 OF 32	16+49.10	16+74.00	RTE 231/TELEGRAPH	RTE 231	LT	25.00	6.00	SMALL RADIUS PERPENDICULAR	14.60	25	21	1	-	17	AT FRANRU LN
467	1 OF 32	16+61.95	16+74.93	RTE 231/TELEGRAPH	RTE 231	RT	13.00	6.00	-	-	-	-	-	8.70	9	TRANSITION SIDEWALK TO DRIVEWAY
467	1 OF 32	16+74.00	17+68.07	RTE 231/TELEGRAPH	RTE 231	LT	94.10	6.00	-	-	-	-	-	62.80	63	-
467	1 OF 32	16+85.95	16+98.92	RTE 231/TELEGRAPH	RTE 231	RT	13.00	6.00	-	-	-	-	-	8.70	9	TRANSITION SIDEWALK TO DRIVEWAY
467	1 OF 32	16+98.92	17+14.83	RTE 231/TELEGRAPH	RTE 231	RT	16.00	6.00	-	-	-	-	-	10.70	11	-
467	1 OF 32	17+14.83	17+27.80	RTE 231/TELEGRAPH	RTE 231	RT	13.00	6.00	-	-	-	-	-	8.70	9	TRANSITION SIDEWALK TO DRIVEWAY
467	1 OF 32	17+38.27	17+53.46	RTE 231/TELEGRAPH	RTE 231	RT	15.20	6.00	-	-	-	-	-	10.20	11	TRANSITION SIDEWALK TO DRIVEWAY
467	1 OF 32	17+53.46	17+65.97	RTE 231/TELEGRAPH	RTE 231	RT	12.60	6.00	-	-	-	-	-	8.40	9	-
468	2 OF 32	17+65.97	17+81.45	RTE 231/TELEGRAPH	RTE 231	RT	15.50	6.00	-	-	-	-	-	10.40	11	TRANSITION SIDEWALK TO DRIVEWAY
468	2 OF 32	17+68.07	17+89.49	RTE 231/TELEGRAPH	RTE 231	LT	21.50	6.00	LARGE RADIUS PERPENDICULAR	10.90	25	25	1	-	15	TRANSITION SIDEWALK TO DRIVEWAY
468	2 OF 32	17+81.45	17+88.00	RTE 231/TELEGRAPH	RTE 231	RT	6.60	6.00	-	-	-	-	-	4.40	5	-
468	2 OF 32	17+88.00	18+07.59	RTE 231/TELEGRAPH	RTE 231	RT	19.60	6.00	LARGE RADIUS PERPENDICULAR	11.50	20	21	1	-	14	AT SYLVANWOOD TERRRACE
468	2 OF 32	18+37.69	18+61.76	RTE 231/TELEGRAPH	RTE 231	RT	24.10	6.00	LARGE RADIUS PERPENDICULAR	13.20	25	28	1	-	17	AT SYLVANWOOD TERRRACE
468	2 OF 32	18+50.96	18+67.90	RTE 231/TELEGRAPH	RTE 231	LT	17.00	6.00	LARGE RADIUS PERPENDICULAR	9.20	17	17.40	1	-	12	TRANSITION SIDEWALK TO DRIVEWAY
468	2 OF 32	18+61.76	19+34.30	RTE 231/TELEGRAPH	RTE 231	RT	72.60	6.00	-	-	-	-	-	48.40	49	-
468	2 OF 32	18+67.90	20+08.51	RTE 231/TELEGRAPH	RTE 231	LT	140.70	6.00	-	-	-	-	-	93.80	94	-
468	2 OF 32	19+34.30	19+50.66	RTE 231/TELEGRAPH	RTE 231	RT	16.40	6.00	-	-	-	-	-	11.00	11	TRANSITION SIDEWALK TO DRIVEWAY
468	2 OF 32	19+81.88	19+96.76	RTE 231/TELEGRAPH	RTE 231	RT	14.90	6.00	-	-	-	-	-	10.00	10	TRANSITION SIDEWALK TO DRIVEWAY
468	2 OF 32	19+96.76	20+08.51	RTE 231/TELEGRAPH	RTE 231	RT	11.80	6.00	-	-	-	-	-	7.90	8	-
468	2 OF 32	20+08.51	20+33.51	RTE 231/TELEGRAPH	RTE 231	RT	25.00	6.00	TYPE 3 PARALLEL	16.70	25	18	1	-	17	-
468	2 OF 32	20+08.51	20+33.51	RTE 231/TELEGRAPH	RTE 231	LT	25.00	6.00	TYPE 3 PARALLEL	16.70	25	18	1	-	17	-
468	2 OF 32	20+16.51	20+25.51	RTE 231/TELEGRAPH	RTE 231	CENTER	9.00	8.00	ISLAND CUT THROUGH	8.00	9	36	1	-	8	CONCRETE MEDIAN ISLAND
468	2 OF 32	20+33.51	20+78.57	RTE 231/TELEGRAPH	RTE 231	RT	45.10	6.00	-	-	-	-	-	30.10	31	-
468	2 OF 32	20+33.51	20+41.72	RTE 231/TELEGRAPH	RTE 231	LT	8.30	6.00	-	-	-	-	-	5.60	6	-
468	2 OF 32	20+41.72	20+58.89	RTE 231/TELEGRAPH	RTE 231	LT	17.20	6.00	-	-	-	-	-	11.50	12	TRANSITION SIDEWALK TO DRIVEWAY
468	2 OF 32	20+75.27	20+92.46	RTE 231/TELEGRAPH	RTE 231	LT	17.20	6.00	-	-	-	-	-	11.50	12	TRANSITION SIDEWALK TO DRIVEWAY
468	2 OF 32	20+78.57	21+00.02	RTE 231/TELEGRAPH	RTE 231	RT	21.50	6.00	LARGE RADIUS PERPENDICULAR	12.00	22	24	1	-	15	AT SYLVIA DR
468	2 OF 32	20+92.46	21+34.59	RTE 231/TELEGRAPH	RTE 231	LT	42.20	6.00	-	-	-	-	-	28.20	29	-
468	2 OF 32	21+27.11	21+42.66	RTE 231/TELEGRAPH	RTE 231	RT	15.60	6.00	LARGE RADIUS PERPENDICULAR	8.80	16	20	1	-	11	AT SYLVIA DR
									TABLE 1 SUBTOTALS		231	241	11	690.80	862	-

SUMMARY OF QUANTITIES
SHEET 53 OF 106

LAYOUT	NS	01/2025
DRAWN	SMC	01/2025
REVIEWED	DJK	01/2025

STATE OF MISSOURI
DENNIS J KOSCIELSKI
NUMBER PE-2005000712
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED 7/25/2025

ROUTE	STATE
231	MO
DISTRICT	SHEET NO.
SL	3

COUNTY ST. LOUIS
JOB NO. J6S3631
CONTRACT ID.
PROJECT NO.
BRIDGE NO.

DESCRIPTION	DATE

IF A SEAL IS PRESENT ON THIS SHEET, IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

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SIDEWALK AND ADA RAMPS (CONT.)

SHEET NO.	SPECIAL CURB DESIGN SHEET NO.	FROM STATION	TO STATION	ROADWAY	CENTERLINE	LOCATION	LENGTH (FT)	SIDEWALK WIDTH (FT)	SUGGESTED ADA RAMP TYPE	APPROX. ADA RAMP AREA (SQ YD)	ESTIMATED TYPE A CURB FOR ADA RAMP (LF)	TRUNCATED DOMES (SQ FT)	MISC. {CONCRETE CURB RAMP} (EA)	CONCRETE SIDEWALK, 4 IN. (SQ YD)	TYPE 5 AGGREGATE FOR BASE (4 IN. THICK) (SQ YD)	REMARKS
468	2 OF 32	21+34.59	21+49.47	RTE 231/TELEGRAPH	RTE 231	LT	14.90	6.00	-	-	-	-	-	10.00	10	TRANSITION SIDEWALK TO DRIVEWAY
468	2 OF 32	21+42.66	21+57.36	RTE 231/TELEGRAPH	RTE 231	RT	14.80	6.00	-	-	-	-	-	9.90	10	TRANSITION SIDEWALK TO DRIVEWAY
468	2 OF 32	21+57.36	22+12.38	RTE 231/TELEGRAPH	RTE 231	RT	55.10	6.00	-	-	-	-	-	36.80	37	-
468	2 OF 32	21+61.37	21+81.16	RTE 231/TELEGRAPH	RTE 231	LT	19.80	6.00	-	-	-	-	-	13.20	14	-
468	2 OF 32	21+99.29	22+16.90	RTE 231/TELEGRAPH	RTE 231	LT	17.70	6.00	-	-	-	-	-	11.80	12	TRANSITION SIDEWALK TO DRIVEWAY
468	2 OF 32	22+03.81	22+07.81	RTE 231/TELEGRAPH	RTE 231	RT	28.40	4.00	-	-	-	-	-	12.70	13	-
468	2 OF 32	22+12.38	22+28.74	RTE 231/TELEGRAPH	RTE 231	RT	16.40	6.00	-	-	-	-	-	11.00	11	TRANSITION SIDEWALK TO DRIVEWAY
468	2 OF 32	22+16.90	23+42.85	RTE 231/TELEGRAPH	RTE 231	LT	126.00	6.00	-	-	-	-	-	84.00	84	-
468	2 OF 32	22+42.04	22+50.39	RTE 231/TELEGRAPH	RTE 231	RT	8.40	6.00	-	-	-	-	-	5.60	6	TRANSITION SIDEWALK TO DRIVEWAY
468	2 OF 32	22+50.39	22+70.05	RTE 231/TELEGRAPH	RTE 231	RT	19.70	6.00	-	-	-	-	-	13.20	14	-
468	2 OF 32	22+50.05	22+54.05	RTE 231/TELEGRAPH	RTE 231	RT	32.00	4.00	-	-	-	-	-	14.30	15	-
468	2 OF 32	22+70.05	22+78.40	RTE 231/TELEGRAPH	RTE 231	RT	8.40	6.00	-	-	-	-	-	5.60	6	TRANSITION SIDEWALK TO DRIVEWAY
469	3 OF 32	22+91.69	23+00.05	RTE 231/TELEGRAPH	RTE 231	RT	28.40	6.00	-	-	-	-	-	19.00	19	TRANSITION SIDEWALK TO DRIVEWAY
469	3 OF 32	23+00.05	23+20.22	RTE 231/TELEGRAPH	RTE 231	RT	20.20	6.00	-	-	-	-	-	13.50	14	-
469	3 OF 32	23+00.05	23+04.05	RTE 231/TELEGRAPH	RTE 231	RT	33.20	4.00	-	-	-	-	-	14.80	15	-
469	3 OF 32	23+20.22	23+28.57	RTE 231/TELEGRAPH	RTE 231	RT	8.40	6.00	-	-	-	-	-	5.60	6	TRANSITION SIDEWALK TO DRIVEWAY
469	3 OF 32	23+41.86	23+58.22	RTE 231/TELEGRAPH	RTE 231	RT	16.40	6.00	-	-	-	-	-	11.00	11	TRANSITION SIDEWALK TO DRIVEWAY
469	3 OF 32	23+42.85	23+59.20	RTE 231/TELEGRAPH	RTE 231	LT	16.40	6.00	-	-	-	-	-	11.00	11	TRANSITION SIDEWALK TO DRIVEWAY
469	3 OF 32	23+52.09	23+56.09	RTE 231/TELEGRAPH	RTE 231	RT	24.60	4.00	-	-	-	-	-	11.00	11	-
469	3 OF 32	23+58.22	23+64.74	RTE 231/TELEGRAPH	RTE 231	RT	6.60	6.00	-	-	-	-	-	4.40	5	-
469	3 OF 32	23+64.74	23+81.09	RTE 231/TELEGRAPH	RTE 231	RT	16.40	6.00	-	-	-	-	-	11.00	11	TRANSITION SIDEWALK TO DRIVEWAY
469	3 OF 32	23+92.91	24+09.99	RTE 231/TELEGRAPH	RTE 231	RT	17.10	6.00	-	-	-	-	-	11.40	12	TRANSITION SIDEWALK TO DRIVEWAY
469	3 OF 32	23+96.17	24+12.52	RTE 231/TELEGRAPH	RTE 231	LT	16.40	6.00	-	-	-	-	-	11.00	11	TRANSITION SIDEWALK TO DRIVEWAY
469	3 OF 32	24+09.99	24+13.98	RTE 231/TELEGRAPH	RTE 231	RT	4.00	6.00	-	-	-	-	-	2.70	3	-
469	3 OF 32	24+12.52	24+50.85	RTE 231/TELEGRAPH	RTE 231	LT	38.40	6.00	-	-	-	-	-	25.60	26	-
469	3 OF 32	24+13.98	24+30.33	RTE 231/TELEGRAPH	RTE 231	RT	16.40	6.00	-	-	-	-	-	11.00	11	TRANSITION SIDEWALK TO DRIVEWAY
469	3 OF 32	24+42.93	24+59.98	RTE 231/TELEGRAPH	RTE 231	RT	17.10	6.00	-	-	-	-	-	11.40	12	TRANSITION SIDEWALK TO DRIVEWAY
469	3 OF 32	24+50.85	24+65.72	RTE 231/TELEGRAPH	RTE 231	LT	14.90	6.00	-	-	-	-	-	10.00	10	TRANSITION SIDEWALK TO DRIVEWAY
469	3 OF 32	24+59.98	24+64.42	RTE 231/TELEGRAPH	RTE 231	RT	4.50	6.00	-	-	-	-	-	3.00	3	-
469	3 OF 32	24+64.42	24+80.77	RTE 231/TELEGRAPH	RTE 231	RT	16.40	6.00	-	-	-	-	-	11.00	11	TRANSITION SIDEWALK TO DRIVEWAY
469	3 OF 32	24+93.04	25+06.85	RTE 231/TELEGRAPH	RTE 231	LT	13.90	6.00	-	-	-	-	-	9.30	10	TRANSITION SIDEWALK TO DRIVEWAY
469	3 OF 32	24+94.39	25+10.75	RTE 231/TELEGRAPH	RTE 231	RT	16.40	6.00	-	-	-	-	-	11.00	11	TRANSITION SIDEWALK TO DRIVEWAY
469	3 OF 32	25+06.85	25+84.34	RTE 231/TELEGRAPH	RTE 231	LT	77.50	6.00	-	-	-	-	-	51.70	52	-
469	3 OF 32	25+10.75	25+17.01	RTE 231/TELEGRAPH	RTE 231	RT	6.30	6.00	-	-	-	-	-	4.20	5	-
469	3 OF 32	25+17.01	25+31.55	RTE 231/TELEGRAPH	RTE 231	RT	14.60	6.00	-	-	-	-	-	9.80	10	TRANSITION SIDEWALK TO DRIVEWAY
469	3 OF 32	25+48.29	25+62.83	RTE 231/TELEGRAPH	RTE 231	RT	14.60	6.00	-	-	-	-	-	9.80	10	TRANSITION SIDEWALK TO DRIVEWAY
469	3 OF 32	25+62.83	25+75.88	RTE 231/TELEGRAPH	RTE 231	RT	13.10	6.00	-	-	-	-	-	8.80	9	-
469	3 OF 32	25+75.88	25+90.27	RTE 231/TELEGRAPH	RTE 231	RT	14.40	6.00	-	-	-	-	-	9.60	10	TRANSITION SIDEWALK TO DRIVEWAY
469	3 OF 32	25+84.34	25+98.34	RTE 231/TELEGRAPH	RTE 231	LT	14.00	6.00	-	-	-	-	-	9.40	10	TRANSITION SIDEWALK TO DRIVEWAY
469	3 OF 32	25+90.27	26+00.96	RTE 231/TELEGRAPH	RTE 231	RT	10.70	6.00	SMALL RADIUS PERPENDICULAR	5.20	11	10	1	-	8	AT WILLETTE TERRACE
469	3 OF 32	26+28.84	26+50.58	RTE 231/TELEGRAPH	RTE 231	RT	21.80	6.00	LARGE RADIUS PERPENDICULAR	12.20	22	24	1	-	15	AT WILLETTE TERRACE
469	3 OF 32	26+30.09	26+44.05	RTE 231/TELEGRAPH	RTE 231	LT	14.00	6.00	-	-	-	-	-	9.40	10	TRANSITION SIDEWALK TO DRIVEWAY
469	3 OF 32	26+44.05	27+76.09	RTE 231/TELEGRAPH	RTE 231	LT	132.10	6.00	-	-	-	-	-	88.10	89	-
469	3 OF 32	26+50.58	26+77.31	RTE 231/TELEGRAPH	RTE 231	RT	26.80	6.00	-	-	-	-	-	17.90	18	-
469	3 OF 32	26+77.31	26+93.66	RTE 231/TELEGRAPH	RTE 231	RT	16.40	6.00	-	-	-	-	-	11.00	11	TRANSITION SIDEWALK TO DRIVEWAY
									TABLE 2 SUBTOTALS		33	34	2	676.50	712	-

LAYOUT	NS	01/2025
DRAWN	SMC	01/2025
REVIEWED	DJK	01/2025

SUMMARY OF QUANTITIES
SHEET 54 OF 106

DENNIS J KOSCIELSKI
NUMBER PE-2005000712
STATE OF MISSOURI
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED 7/25/2025

ROUTE	STATE
231	MO
DISTRICT	SHEET NO.
SL	3

COUNTY ST. LOUIS
JOB NO. J6S3631
CONTRACT ID.
PROJECT NO.
BRIDGE NO.

DESCRIPTION	DATE

IF A SEAL IS PRESENT ON THIS SHEET, IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

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SIDEWALK AND ADA RAMPS (CONT.)

SHEET NO.	SPECIAL CURB DESIGN SHEET NO.	FROM STATION	TO STATION	ROADWAY	CENTERLINE	LOCATION	LENGTH (FT)	SIDEWALK WIDTH (FT)	SUGGESTED ADA RAMP TYPE	APPROX. ADA RAMP AREA (SQ YD)	ESTIMATED TYPE A CURB FOR ADA RAMP (LF)	TRUNCATED DOMES (SQ FT)	MISC. {CONCRETE CURB RAMP} (EA)	CONCRETE SIDEWALK, 4 IN. (SQ YD)	TYPE 5 AGGREGATE FOR BASE (4 IN. THICK) (SQ YD)	REMARKS
469	3 OF 32	27+06.96	27+23.31	RTE 231/TELEGRAPH	RTE 231	RT	16.40	6.00	-	-	-	-	-	11.00	11	TRANSITION SIDEWALK TO DRIVEWAY
469	3 OF 32	27+23.31	27+34.23	RTE 231/TELEGRAPH	RTE 231	RT	11.00	6.00	-	-	-	-	-	7.40	8	-
469	3 OF 32	27+34.23	27+48.77	RTE 231/TELEGRAPH	RTE 231	RT	14.60	6.00	-	-	-	-	-	9.80	10	TRANSITION SIDEWALK TO DRIVEWAY
469	3 OF 32	27+67.09	27+88.51	RTE 231/TELEGRAPH	RTE 231	LT	21.50	6.00	-	-	-	-	-	14.40	15	TRANSITION SIDEWALK TO DRIVEWAY
469	3 OF 32	27+71.24	27+85.78	RTE 231/TELEGRAPH	RTE 231	RT	14.60	6.00	-	-	-	-	-	9.80	10	TRANSITION SIDEWALK TO DRIVEWAY
469	3 OF 32	27+85.78	28+52.91	RTE 231/TELEGRAPH	RTE 231	RT	67.20	6.00	-	-	-	-	-	44.80	45	-
470	4 OF 32	28+21.70	28+34.99	RTE 231/TELEGRAPH	RTE 231	LT	13.30	6.00	-	-	-	-	-	8.90	9	TRANSITION SIDEWALK TO DRIVEWAY
470	4 OF 32	28+34.99	29+27.88	RTE 231/TELEGRAPH	RTE 231	LT	92.90	6.00	-	-	-	-	-	62.00	62	-
470	4 OF 32	28+52.91	28+74.36	RTE 231/TELEGRAPH	RTE 231	RT	21.50	6.00	LARGE RADIUS PERPENDICULAR	12.00	22	24	1	-	15	AT BRILLIANT LN
470	4 OF 32	29+10.10	29+33.08	RTE 231/TELEGRAPH	RTE 231	RT	23.00	6.00	LARGE RADIUS PERPENDICULAR	12.50	23	26	1	-	16	AT BRILLIANT LN
470	4 OF 32	29+27.88	29+45.60	RTE 231/TELEGRAPH	RTE 231	LT	17.80	6.00	-	-	-	-	-	11.90	12	TRANSITION SIDEWALK TO DRIVEWAY
470	4 OF 32	29+33.08	29+58.72	RTE 231/TELEGRAPH	RTE 231	RT	25.70	6.00	-	-	-	-	-	17.20	18	-
470	4 OF 32	29+58.72	29+72.51	RTE 231/TELEGRAPH	RTE 231	RT	13.80	6.00	-	-	-	-	-	9.20	10	TRANSITION SIDEWALK TO DRIVEWAY
470	4 OF 32	29+84.66	30+01.22	RTE 231/TELEGRAPH	RTE 231	RT	16.60	6.00	-	-	-	-	-	11.10	12	TRANSITION SIDEWALK TO DRIVEWAY
470	4 OF 32	29+88.29	30+07.98	RTE 231/TELEGRAPH	RTE 231	LT	19.70	6.00	-	-	-	-	-	13.20	14	TRANSITION SIDEWALK TO DRIVEWAY
470	4 OF 32	29+92.22	30+03.97	RTE 231/TELEGRAPH	RTE 231	LT	11.80	6.00	-	-	-	-	-	7.90	8	-
470	4 OF 32	30+01.22	30+24.89	RTE 231/TELEGRAPH	RTE 231	RT	23.70	6.00	-	-	-	-	-	15.80	16	-
470	4 OF 32	30+07.98	30+79.99	RTE 231/TELEGRAPH	RTE 231	LT	72.10	6.00	-	-	-	-	-	48.10	49	-
470	4 OF 32	30+24.89	30+41.70	RTE 231/TELEGRAPH	RTE 231	RT	16.90	6.00	-	-	-	-	-	11.30	12	TRANSITION SIDEWALK TO DRIVEWAY
470	4 OF 32	30+67.75	30+84.61	RTE 231/TELEGRAPH	RTE 231	RT	16.90	6.00	-	-	-	-	-	11.30	12	-
470	4 OF 32	30+79.99	30+97.39	RTE 231/TELEGRAPH	RTE 231	LT	17.50	6.00	-	-	-	-	-	11.70	12	TRANSITION SIDEWALK TO DRIVEWAY
470	4 OF 32	31+08.49	31+25.47	RTE 231/TELEGRAPH	RTE 231	RT	17.00	6.00	-	-	-	-	-	11.40	12	TRANSITION SIDEWALK TO DRIVEWAY
470	4 OF 32	31+25.47	31+87.55	RTE 231/TELEGRAPH	RTE 231	RT	62.10	6.00	-	-	-	-	-	41.40	42	-
470	4 OF 32	31+39.90	31+56.29	RTE 231/TELEGRAPH	RTE 231	LT	16.40	6.00	-	-	-	-	-	11.00	11	TRANSITION SIDEWALK TO DRIVEWAY
470	4 OF 32	31+56.29	34+82.80	RTE 231/TELEGRAPH	RTE 231	LT	326.60	6.00	-	-	-	-	-	217.80	218	-
470	4 OF 32	31+87.55	32+04.55	RTE 231/TELEGRAPH	RTE 231	RT	17.00	6.00	-	-	-	-	-	11.40	12	TRANSITION SIDEWALK TO DRIVEWAY
470	4 OF 32	32+30.46	32+46.94	RTE 231/TELEGRAPH	RTE 231	RT	16.50	6.00	-	-	-	-	-	11.00	11	TRANSITION SIDEWALK TO DRIVEWAY
470	4 OF 32	32+46.94	32+65.13	RTE 231/TELEGRAPH	RTE 231	RT	18.20	6.00	-	-	-	-	-	12.20	13	-
470	4 OF 32	32+65.13	32+80.73	RTE 231/TELEGRAPH	RTE 231	RT	15.60	6.00	-	-	-	-	-	10.40	11	TRANSITION SIDEWALK TO DRIVEWAY
471	5 OF 32	33+04.71	33+21.04	RTE 231/TELEGRAPH	RTE 231	RT	16.40	6.00	-	-	-	-	-	11.00	11	TRANSITION SIDEWALK TO DRIVEWAY
471	5 OF 32	33+21.04	33+35.68	RTE 231/TELEGRAPH	RTE 231	RT	14.70	6.00	-	-	-	-	-	9.80	10	-
471	5 OF 32	33+35.68	33+52.48	RTE 231/TELEGRAPH	RTE 231	RT	16.90	6.00	-	-	-	-	-	11.30	12	TRANSITION SIDEWALK TO DRIVEWAY
471	5 OF 32	34+35.27	34+49.27	RTE 231/TELEGRAPH	RTE 231	RT	14.00	6.00	-	-	-	-	-	9.40	10	TRANSITION SIDEWALK TO DRIVEWAY
471	5 OF 32	34+49.27	34+86.84	RTE 231/TELEGRAPH	RTE 231	RT	37.60	6.00	-	-	-	-	-	25.10	26	-
471	5 OF 32	34+82.80	34+95.77	RTE 231/TELEGRAPH	RTE 231	LT	13.00	6.00	-	-	-	-	-	8.70	9	TRANSITION SIDEWALK TO DRIVEWAY
471	5 OF 32	34+86.84	34+99.81	RTE 231/TELEGRAPH	RTE 231	RT	13.00	6.00	-	-	-	-	-	8.70	9	TRANSITION SIDEWALK TO DRIVEWAY
471	5 OF 32	35+38.23	35+52.04	RTE 231/TELEGRAPH	RTE 231	RT	13.90	6.00	-	-	-	-	-	9.30	10	TRANSITION SIDEWALK TO DRIVEWAY
471	5 OF 32	35+49.37	35+60.56	RTE 231/TELEGRAPH	RTE 231	LT	11.20	6.00	-	-	-	-	-	7.50	8	-
471	5 OF 32	35+52.04	35+77.50	RTE 231/TELEGRAPH	RTE 231	RT	25.50	6.00	-	-	-	-	-	17.00	17	-
471	5 OF 32	35+75.41	35+76.62	RTE 231/TELEGRAPH	RTE 231	LT	1.30	6.00	-	-	-	-	-	0.90	1	-
471	5 OF 32	35+77.50	35+92.13	RTE 231/TELEGRAPH	RTE 231	RT	14.70	6.00	-	-	-	-	-	9.80	10	TRANSITION SIDEWALK TO DRIVEWAY
471	5 OF 32	36+04.66	36+15.68	RTE 231/TELEGRAPH	RTE 231	LT	11.10	6.00	-	-	-	-	-	7.40	8	TRANSITION SIDEWALK TO DRIVEWAY
471	5 OF 32	36+22.39	36+36.05	RTE 231/TELEGRAPH	RTE 231	RT	13.70	6.00	-	-	-	-	-	9.20	10	TRANSITION SIDEWALK TO DRIVEWAY
471	5 OF 32	36+36.05	37+27.23	RTE 231/TELEGRAPH	RTE 231	RT	91.20	6.00	-	-	-	-	-	60.80	61	-
471	5 OF 32	36+45.67	36+55.42	RTE 231/TELEGRAPH	RTE 231	LT	9.80	6.00	-	-	-	-	-	6.60	7	TRANSITION SIDEWALK TO DRIVEWAY
									TABLE 3 SUBTOTALS		45	50	2	875.90	925	-

SUMMARY OF QUANTITIES
SHEET 55 OF 106

LAYOUT	NS	01/2025
DRAWN	SMC	01/2025
REVIEWED	DJK	01/2025

STATE OF MISSOURI
DENNIS J KOSCIELSKI
NUMBER PE-2005000712
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED 7/25/2025

ROUTE	STATE
231	MO
DISTRICT	SHEET NO.
SL	3

COUNTY ST. LOUIS
JOB NO. J6S3631
CONTRACT ID.
PROJECT NO.
BRIDGE NO.

DESCRIPTION | DATE

IF A SEAL IS PRESENT ON THIS SHEET, IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

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Professional Engineer 001632
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314.770.0467

SIDEWALK AND ADA RAMPS (CONT.)

SHEET NO.	SPECIAL CURB DESIGN SHEET NO.	FROM STATION	TO STATION	ROADWAY	CENTERLINE	LOCATION	LENGTH (FT)	SIDEWALK WIDTH (FT)	SUGGESTED ADA RAMP TYPE	APPROX. ADA RAMP AREA (SQ YD)	ESTIMATED TYPE A CURB FOR ADA RAMP (LF)	TRUNCATED DOMES (SQ FT)	MISC. {CONCRETE CURB RAMP} (EA)	CONCRETE SIDEWALK, 4 IN. (SQ YD)	TYPE 5 AGGREGATE FOR BASE (4 IN. THICK) (SQ YD)	REMARKS
471	5 OF 32	36+55.42	37+42.28	RTE 231/TELEGRAPH	RTE 231	LT	86.90	6.00	-	-	-	-	-	58.00	58	-
471	5 OF 32	37+27.23	37+43.06	RTE 231/TELEGRAPH	RTE 231	RT	15.90	6.00	-	-	-	-	-	10.60	11	TRANSITION SIDEWALK TO DRIVEWAY
472	6 OF 32	37+42.28	37+52.11	RTE 231/TELEGRAPH	RTE 231	LT	9.90	6.00	-	-	-	-	-	6.60	7	TRANSITION SIDEWALK TO DRIVEWAY
472	6 OF 32	37+95.79	38+03.84	RTE 231/TELEGRAPH	RTE 231	LT	8.10	6.00	-	-	-	-	-	5.40	6	TRANSITION SIDEWALK TO DRIVEWAY
472	6 OF 32	38+00.33	38+16.23	RTE 231/TELEGRAPH	RTE 231	RT	16.00	6.00	-	-	-	-	-	10.70	11	TRANSITION SIDEWALK TO DRIVEWAY
472	6 OF 32	38+03.84	38+32.85	RTE 231/TELEGRAPH	RTE 231	LT	29.10	6.00	-	-	-	-	-	19.40	20	-
472	6 OF 32	38+16.23	39+87.22	RTE 231/TELEGRAPH	RTE 231	RT	171.00	6.00	-	-	-	-	-	114.00	114	-
472	6 OF 32	38+32.85	38+44.21	RTE 231/TELEGRAPH	RTE 231	LT	11.40	6.00	-	-	-	-	-	7.60	8	TRANSITION SIDEWALK TO DRIVEWAY
472	6 OF 32	38+95.58	39+07.62	RTE 231/TELEGRAPH	RTE 231	LT	12.10	6.00	-	-	-	-	-	8.10	9	TRANSITION SIDEWALK TO DRIVEWAY
472	6 OF 32	39+07.62	39+82.22	RTE 231/TELEGRAPH	RTE 231	LT	74.60	6.00	-	-	-	-	-	49.80	50	-
472	6 OF 32	39+82.22	40+05.28	RTE 231/TELEGRAPH	RTE 231	LT	23.10	6.00	DUAL PERPENDICULAR	16.00	24	24	1	-	16	AT JEFFERSONIAN DR
472	6 OF 32	39+82.22	40+05.28	RTE 231/TELEGRAPH	RTE 231	LT	23.10	6.00	DUAL PERPENDICULAR	16.00	24	24	1	-	16	AT JEFFERSONIAN DR
472	6 OF 32	39+77.22	40+20.95	RTE 231/TELEGRAPH	RTE 231	RT	43.80	6.00	DUAL PERPENDICULAR	65.10	44	20	1	-	30	AT JEFFERSON BARRACKS RD
472	6 OF 32	39+77.22	40+20.95	RTE 231/TELEGRAPH	RTE 231	RT	43.80	6.00	DUAL PERPENDICULAR	65.10	44	20	1	-	30	AT JEFFERSON BARRACKS RD
472	6 OF 32	40+10.88	40+24.08	RTE 231/TELEGRAPH	RTE 231	RT	13.20	22.50	-	-	-	-	-	33.00	33	-
472	6 OF 32	40+42.93	40+53.99	RTE 231/TELEGRAPH	RTE 231	LT	11.10	6.00	TYPE 1 PARALLEL	16.70	12	14	1	-	8	AT JEFFERSONIAN DR
472	6 OF 32	40+53.99	40+69.43	RTE 231/TELEGRAPH	RTE 231	LT	15.50	6.00	-	-	-	-	-	10.40	11	-
472	6 OF 32	40+66.99	40+91.56	RTE 231/TELEGRAPH	RTE 231	RT	24.60	6.00	DUAL PERPENDICULAR	32.40	25	24	1	-	17	AT JEFFERSON BARRACKS RD
472	6 OF 32	40+66.99	40+91.56	RTE 231/TELEGRAPH	RTE 231	RT	24.60	6.00	DUAL PERPENDICULAR	32.40	25	24	1	-	17	AT JEFFERSON BARRACKS RD
472	6 OF 32	40+69.43	40+84.43	RTE 231/TELEGRAPH	RTE 231	LT	15.00	6.00	TYPE 3 PARALLEL	17.40	15	10	1	-	10	AT JEFFERSONIAN DR
472	6 OF 32	40+84.43	41+99.04	RTE 231/TELEGRAPH	RTE 231	LT	114.70	6.00	-	-	-	-	-	76.50	77	-
472	6 OF 32	40+91.56	41+07.18	RTE 231/TELEGRAPH	RTE 231	RT	15.70	6.00	-	-	-	-	-	10.50	11	-
472	6 OF 32	41+07.18	41+13.81	RTE 231/TELEGRAPH	RTE 231	RT	6.70	6.00	-	-	-	-	-	4.50	5	TRANSITION SIDEWALK TO DRIVEWAY
472	6 OF 32	41+45.88	41+61.45	RTE 231/TELEGRAPH	RTE 231	RT	15.60	6.00	-	-	-	-	-	10.40	11	TRANSITION SIDEWALK TO DRIVEWAY
472	6 OF 32	41+61.45	41+77.02	RTE 231/TELEGRAPH	RTE 231	RT	15.60	6.00	-	-	-	-	-	10.40	11	TRANSITION SIDEWALK TO DRIVEWAY
472	6 OF 32	42+09.17	42+14.07	RTE 231/TELEGRAPH	RTE 231	RT	4.90	6.00	-	-	-	-	-	3.30	4	TRANSITION SIDEWALK TO DRIVEWAY
472	6 OF 32	42+14.07	42+28.25	RTE 231/TELEGRAPH	RTE 231	RT	14.20	6.00	-	-	-	-	-	9.50	10	-
472	6 OF 32	42+28.25	42+33.23	RTE 231/TELEGRAPH	RTE 231	RT	5.00	6.00	-	-	-	-	-	3.40	4	TRANSITION SIDEWALK TO DRIVEWAY
472	6 OF 32	42+40.46	43+66.01	RTE 231/TELEGRAPH	RTE 231	LT	125.60	6.00	-	-	-	-	-	83.80	84	-
472	6 OF 32	42+59.52	42+72.49	RTE 231/TELEGRAPH	RTE 231	RT	13.00	6.00	-	-	-	-	-	8.70	9	TRANSITION SIDEWALK TO DRIVEWAY
472	6 OF 32	42+72.49	44+07.33	RTE 231/TELEGRAPH	RTE 231	RT	134.90	6.00	-	-	-	-	-	90.00	90	-
473	7 OF 32	43+66.01	43+81.20	RTE 231/TELEGRAPH	RTE 231	LT	15.20	6.00	-	-	-	-	-	10.20	11	TRANSITION SIDEWALK TO DRIVEWAY
473	7 OF 32	44+07.33	44+22.52	RTE 231/TELEGRAPH	RTE 231	RT	15.20	6.00	-	-	-	-	-	10.20	11	TRANSITION SIDEWALK TO DRIVEWAY
473	7 OF 32	44+28.25	44+35.44	RTE 231/TELEGRAPH	RTE 231	LT	7.20	6.00	-	-	-	-	-	4.80	5	TRANSITION SIDEWALK TO DRIVEWAY
473	7 OF 32	44+35.44	44+60.36	RTE 231/TELEGRAPH	RTE 231	LT	25.00	6.00	-	-	-	-	-	16.70	17	-
473	7 OF 32	44+41.89	44+49.09	RTE 231/TELEGRAPH	RTE 231	RT	7.20	6.00	-	-	-	-	-	4.80	5	TRANSITION SIDEWALK TO DRIVEWAY
473	7 OF 32	44+49.09	44+65.39	RTE 231/TELEGRAPH	RTE 231	RT	16.40	6.00	-	-	-	-	-	11.00	11	-
473	7 OF 32	44+60.36	44+71.07	RTE 231/TELEGRAPH	RTE 231	LT	10.80	6.00	-	-	-	-	-	7.20	8	TRANSITION SIDEWALK TO DRIVEWAY
473	7 OF 32	44+65.39	44+83.22	RTE 231/TELEGRAPH	RTE 231	RT	17.90	6.00	LARGE RADIUS PERPENDICULAR	8.10	18	35	1	-	12	AT BETTY JEAN LN
473	7 OF 32	44+87.52	44+92.75	RTE 231/TELEGRAPH	RTE 231	LT	5.30	6.00	-	-	-	-	-	3.60	4	TRANSITION SIDEWALK TO DRIVEWAY
473	7 OF 32	44+92.75	45+12.67	RTE 231/TELEGRAPH	RTE 231	LT	20.00	6.00	-	-	-	-	-	13.40	14	-
473	7 OF 32	45+12.67	45+17.90	RTE 231/TELEGRAPH	RTE 231	LT	5.30	6.00	-	-	-	-	-	3.60	4	TRANSITION SIDEWALK TO DRIVEWAY
473	7 OF 32	45+32.58	45+37.81	RTE 231/TELEGRAPH	RTE 231	LT	5.30	6.00	-	-	-	-	-	3.60	4	TRANSITION SIDEWALK TO DRIVEWAY
473	7 OF 32	45+33.81	45+57.81	RTE 231/TELEGRAPH	RTE 231	RT	24.00	6.00	LARGE RADIUS PERPENDICULAR	11.10	24	36	1	-	16	AT BETTY JEAN LN
473	7 OF 32	45+37.81	45+45.32	RTE 231/TELEGRAPH	RTE 231	LT	7.60	6.00	-	-	-	-	-	5.10	6	-
473	7 OF 32	45+45.32	45+53.06	RTE 231/TELEGRAPH	RTE 231	LT	7.80	6.00	-	-	-	-	-	5.20	6	TRANSITION SIDEWALK TO DRIVEWAY
473	7 OF 32	45+82.51	45+96.90	RTE 231/TELEGRAPH	RTE 231	RT	14.40	6.00	-	-	-	-	-	9.60	10	TRANSITION SIDEWALK TO DRIVEWAY
473	7 OF 32	45+83.99	45+97.99	RTE 231/TELEGRAPH	RTE 231	LT	14.00	6.00	-	-	-	-	-	9.40	10	TRANSITION SIDEWALK TO DRIVEWAY
									TABLE 4 SUBTOTALS		255	231	10	763.00	952	-

SUMMARY OF QUANTITIES
SHEET 56 OF 106

LAYOUT	NS	01/2025
DRAWN	SMC	01/2025
REVIEWED	DJK	01/2025

STATE OF MISSOURI
DENNIS J KOSCIELSKI
NUMBER PE-2005000712
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED 7/25/2025

ROUTE	STATE
231	MO
DISTRICT	SHEET NO.
SL	3

COUNTY ST. LOUIS
JOB NO. J6S3631
CONTRACT ID.
PROJECT NO.
BRIDGE NO.

DESCRIPTION	DATE

IF A SEAL IS PRESENT ON THIS SHEET, IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
MoDOT
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

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Professional Engineer 001632
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SIDEWALK AND ADA RAMPS (CONT.)

SHEET NO.	SPECIAL CURB DESIGN SHEET NO.	FROM STATION	TO STATION	ROADWAY	CENTERLINE	LOCATION	LENGTH (FT)	SIDEWALK WIDTH (FT)	SUGGESTED ADA RAMP TYPE	APPROX. ADA RAMP AREA (SQ YD)	ESTIMATED TYPE A CURB FOR ADA RAMP (LF)	TRUNCATED DOMES (SQ FT)	MISC. {CONCRETE CURB RAMP} (EA)	CONCRETE SIDEWALK, 4 IN. (SQ YD)	TYPE 5 AGGREGATE FOR BASE (4 IN. THICK) (SQ YD)	REMARKS
473	7 OF 32	45+96.90	46+73.17	RTE 231/TELEGRAPH	RTE 231	RT	76.30	6.00	-	-	-	-	-	50.90	51	-
473	7 OF 32	45+97.99	46+67.70	RTE 231/TELEGRAPH	RTE 231	LT	69.80	6.00	-	-	-	-	-	46.60	47	-
473	7 OF 32	46+67.70	46+86.57	RTE 231/TELEGRAPH	RTE 231	LT	18.90	6.00	LARGE RADIUS PERPENDICULAR	14.40	19	23	1	-	13	AT TELEGRAPH RD
473	7 OF 32	46+73.17	46+88.17	RTE 231/TELEGRAPH	RTE 231	RT	15.00	6.00	TYPE 3 PARALLEL	18.50	15	10	1	-	10	-
473	7 OF 32	46+77.42	46+83.42	RTE 231/TELEGRAPH	RTE 231	CENTER	6.00	5.00	-	-	-	-	-	3.40	4	CONCRETE MEDIAN ISLAND
473	7 OF 32	46+88.17	47+60.16	RTE 231/TELEGRAPH	RTE 231	RT	72.00	6.00	-	-	-	-	-	48.00	48	-
473	7 OF 32	47+60.16	47+76.53	RTE 231/TELEGRAPH	RTE 231	RT	16.40	6.00	SMALL RADIUS PERPENDICULAR	7.60	17	10	1	-	11	AT LAREDO AVE
473	7 OF 32	48+05.96	48+15.11	RTE 231/TELEGRAPH	RTE 231	LT	9.20	16.00	-	-	-	-	-	16.40	17	-
473	7 OF 32	48+05.96	48+33.73	RTE 231/TELEGRAPH	RTE 231	LT	27.80	6.00	LARGE RADIUS PERPENDICULAR	33.80	28	46	1	-	19	AT TELEGRAPH RD
473	7 OF 32	48+10.04	48+23.23	RTE 231/TELEGRAPH	RTE 231	RT	13.20	6.00	LARGE RADIUS PERPENDICULAR	23.60	14	42	1	-	9	AT LAREDO AVE
473	7 OF 32	48+17.73	48+23.73	RTE 231/TELEGRAPH	RTE 231	CENTER	6.00	16.50	ISLAND CUT THROUGH	11.00	6	24	1	-	11	CONCRETE MEDIAN ISLAND
473	7 OF 32	48+23.23	48+40.64	RTE 231/TELEGRAPH	RTE 231	RT	17.50	6.00	-	-	-	-	-	11.70	12	-
473	7 OF 32	48+33.73	50+37.83	RTE 231/KINGSTON	RTE 231	LT	204.10	6.00	-	-	-	-	-	136.10	137	-
474	8 OF 32	48+40.64	48+48.99	RTE 231/KINGSTON	RTE 231	RT	8.40	6.00	-	-	-	-	-	5.60	6	TRANSITION SIDEWALK TO DRIVEWAY
474	8 OF 32	48+73.83	48+88.36	RTE 231/KINGSTON	RTE 231	RT	14.60	6.00	-	-	-	-	-	9.80	10	TRANSITION SIDEWALK TO DRIVEWAY
474	8 OF 32	48+88.36	50+58.20	RTE 231/KINGSTON	RTE 231	RT	169.90	6.00	-	-	-	-	-	113.30	114	-
474	8 OF 32	50+37.83	50+58.51	RTE 231/KINGSTON	RTE 231	LT	20.70	6.00	LARGE RADIUS PERPENDICULAR	17.60	21	24	1	-	14	AT SIGSBEE AVE
474	8 OF 32	50+46.94	50+51.86	RTE 231/KINGSTON	RTE 231	LT	5.00	12.00	-	-	-	-	-	6.70	7	-
474	8 OF 32	50+58.20	50+82.00	RTE 231/KINGSTON	RTE 231	RT	23.90	6.00	LARGE RADIUS PERPENDICULAR	12.00	24	32	1	-	16	AT SIGSBEE AVE
474	8 OF 32	50+88.44	51+10.80	RTE 231/KINGSTON	RTE 231	LT	22.40	6.00	LARGE RADIUS PERPENDICULAR	12.40	23	26	1	-	15	AT SIGSBEE AVE
474	8 OF 32	51+10.80	51+21.30	RTE 231/KINGSTON	RTE 231	LT	10.50	6.00	-	-	-	-	-	7.00	7	-
474	8 OF 32	51+18.82	51+41.28	RTE 231/KINGSTON	RTE 231	RT	22.50	6.00	LARGE RADIUS PERPENDICULAR	11.80	23	24	1	-	15	AT SIGSBEE AVE
474	8 OF 32	51+21.30	51+35.60	RTE 231/KINGSTON	RTE 231	LT	14.40	6.00	-	-	-	-	-	9.60	10	TRANSITION SIDEWALK TO DRIVEWAY
474	8 OF 32	51+41.28	52+79.10	RTE 231/KINGSTON	RTE 231	RT	137.90	6.00	-	-	-	-	-	92.00	92	-
474	8 OF 32	51+57.10	51+72.85	RTE 231/KINGSTON	RTE 231	LT	15.80	6.00	-	-	-	-	-	10.60	11	TRANSITION SIDEWALK TO DRIVEWAY
474	8 OF 32	51+72.85	51+91.28	RTE 231/KINGSTON	RTE 231	LT	18.50	6.00	-	-	-	-	-	12.40	13	-
474	8 OF 32	51+91.28	52+07.06	RTE 231/KINGSTON	RTE 231	LT	15.80	6.00	-	-	-	-	-	10.60	11	TRANSITION SIDEWALK TO DRIVEWAY
474	8 OF 32	52+31.55	52+39.58	RTE 231/KINGSTON	RTE 231	LT	8.10	6.00	-	-	-	-	-	5.40	6	TRANSITION SIDEWALK TO DRIVEWAY
474	8 OF 32	52+39.58	52+54.40	RTE 231/KINGSTON	RTE 231	LT	14.90	6.00	-	-	-	-	-	10.00	10	-
474	8 OF 32	52+54.40	52+60.13	RTE 231/KINGSTON	RTE 231	LT	5.80	15.00	COMPOUND PERPENDICULAR	3.80	6	10	1	-	10	AT ATLAS DR
474	8 OF 32	52+57.20	52+60.13	RTE 231/KINGSTON	RTE 231	LT	3.00	6.00	-	-	-	-	-	2.00	2	-
474	8 OF 32	52+79.10	52+95.59	RTE 231/KINGSTON	RTE 231	RT	16.50	6.00	-	-	-	-	-	11.00	11	TRANSITION SIDEWALK TO DRIVEWAY
474	8 OF 32	52+96.51	53+01.27	RTE 231/KINGSTON	RTE 231	LT	4.80	15.00	COMPOUND PERPENDICULAR	14.00	5	10	1	-	8	AT ATLAS DR
474	8 OF 32	52+96.51	53+11.05	RTE 231/KINGSTON	RTE 231	LT	14.60	6.00	-	-	-	-	-	9.80	10	-
474	8 OF 32	52+97.81	53+01.27	RTE 231/KINGSTON	RTE 231	LT	3.50	6.00	-	-	-	-	-	2.40	3	-
474	8 OF 32	53+08.37	53+23.41	RTE 231/KINGSTON	RTE 231	RT	15.10	6.00	-	-	-	-	-	10.10	11	TRANSITION SIDEWALK TO DRIVEWAY
474	8 OF 32	53+11.05	53+61.77	RTE 231/KINGSTON	RTE 231	LT	50.80	6.00	-	-	-	-	-	33.90	34	-
474	8 OF 32	53+23.41	53+71.95	RTE 231/KINGSTON	RTE 231	RT	48.60	6.00	-	-	-	-	-	32.40	33	-
475	9 OF 32	53+61.77	53+76.31	RTE 231/KINGSTON	RTE 231	LT	14.60	6.00	-	-	-	-	-	9.80	10	TRANSITION SIDEWALK TO DRIVEWAY
475	9 OF 32	53+71.95	53+88.91	RTE 231/KINGSTON	RTE 231	RT	17.00	6.00	-	-	-	-	-	11.40	12	TRANSITION SIDEWALK TO DRIVEWAY
475	9 OF 32	53+87.53	54+14.13	RTE 231/KINGSTON	RTE 231	LT	26.70	6.00	-	-	-	-	-	17.80	18	-
475	9 OF 32	54+02.20	54+17.99	RTE 231/KINGSTON	RTE 231	RT	15.80	6.00	-	-	-	-	-	10.60	11	TRANSITION SIDEWALK TO DRIVEWAY
475	9 OF 32	54+17.99	54+60.73	RTE 231/KINGSTON	RTE 231	RT	42.80	6.00	-	-	-	-	-	28.60	29	-
475	9 OF 32	54+30.67	54+58.71	RTE 231/KINGSTON	RTE 231	LT	28.10	6.00	-	-	-	-	-	18.80	19	-
475	9 OF 32	54+60.73	54+76.92	RTE 231/KINGSTON	RTE 231	RT	16.20	6.00	-	-	-	-	-	10.80	11	TRANSITION SIDEWALK TO DRIVEWAY
									TABLE 5 SUBTOTALS		201	281	12	815.50	978	-

LAYOUT	NS	01/2025
DRAWN	SMC	01/2025
REVIEWED	DJK	01/2025

SUMMARY OF QUANTITIES
SHEET 57 OF 106

STATE OF MISSOURI
DENNIS J KOSCIELSKI
NUMBER PE-2005000712
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED 7/25/2025

ROUTE	STATE
231	MO
DISTRICT	SHEET NO.
SL	57

COUNTY ST. LOUIS
JOB NO. J6S3631
CONTRACT ID.
PROJECT NO.
BRIDGE NO.

DESCRIPTION	DATE

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

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SIDEWALK AND ADA RAMPS (CONT.)

SHEET NO.	SPECIAL CURB DESIGN SHEET NO.	FROM STATION	TO STATION	ROADWAY	CENTERLINE	LOCATION	LENGTH (FT)	SIDEWALK WIDTH (FT)	SUGGESTED ADA RAMP TYPE	APPROX. ADA RAMP AREA (SQ YD)	ESTIMATED TYPE A CURB FOR ADA RAMP (LF)	TRUNCATED DOMES (SQ FT)	MISC. {CONCRETE CURB RAMP} (EA)	CONCRETE SIDEWALK, 4 IN. (SQ YD)	TYPE 5 AGGREGATE FOR BASE (4 IN. THICK) (SQ YD)	REMARKS
475	9 OF 32	54+70.28	54+85.20	RTE 231/KINGSTON	RTE 231	LT	15.00	6.00	-	-	-	-	-	10.00	10	TRANSITION SIDEWALK TO DRIVEWAY
475	9 OF 32	54+85.20	55+11.35	RTE 231/KINGSTON	RTE 231	LT	26.20	6.00	-	-	-	-	-	17.50	18	-
475	9 OF 32	54+89.91	55+05.69	RTE 231/KINGSTON	RTE 231	RT	15.80	6.00	-	-	-	-	-	10.60	11	TRANSITION SIDEWALK TO DRIVEWAY
475	9 OF 32	55+05.69	55+36.25	RTE 231/KINGSTON	RTE 231	RT	30.60	6.00	-	-	-	-	-	20.40	21	-
475	9 OF 32	55+11.35	55+26.16	RTE 231/KINGSTON	RTE 231	LT	14.90	6.00	-	-	-	-	-	10.00	10	TRANSITION SIDEWALK TO DRIVEWAY
475	9 OF 32	55+21.04	55+25.64	RTE 231/KINGSTON	RTE 231	LT	4.70	6.00	-	-	-	-	-	3.20	4	-
475	9 OF 32	55+36.25	55+52.12	RTE 231/KINGSTON	RTE 231	RT	15.90	6.00	-	-	-	-	-	10.60	11	TRANSITION SIDEWALK TO DRIVEWAY
475	9 OF 32	55+37.66	55+63.88	RTE 231/KINGSTON	RTE 231	LT	26.30	6.00	-	-	-	-	-	17.60	18	-
475	9 OF 32	55+64.33	55+79.52	RTE 231/KINGSTON	RTE 231	RT	15.20	6.00	-	-	-	-	-	10.20	11	TRANSITION SIDEWALK TO DRIVEWAY
475	9 OF 32	55+76.05	56+01.93	RTE 231/KINGSTON	RTE 231	LT	25.90	6.00	-	-	-	-	-	17.30	18	-
475	9 OF 32	55+79.52	56+09.55	RTE 231/KINGSTON	RTE 231	RT	30.10	6.00	-	-	-	-	-	20.10	21	-
475	9 OF 32	56+01.54	56+09.55	RTE 231/KINGSTON	RTE 231	RT	8.10	6.00	TYPE 3 PARALLEL	4.60	9	10	1	-	6	AT SHETLAND DR
475	9 OF 32	56+02.16	56+06.20	RTE 231/KINGSTON	RTE 231	RT	4.10	6.00	-	-	-	-	-	2.80	3	-
475	9 OF 32	56+16.40	56+44.80	RTE 231/KINGSTON	RTE 231	LT	28.50	6.00	-	-	-	-	-	19.00	19	-
475	9 OF 32	56+40.73	56+50.48	RTE 231/KINGSTON	RTE 231	RT	9.80	6.00	TYPE 3 PARALLEL	5.00	10	10	1	-	7	AT SHETLAND DR
475	9 OF 32	56+43.48	56+50.48	RTE 231/KINGSTON	RTE 231	RT	7.00	6.00	-	-	-	-	-	4.70	5	-
475	9 OF 32	56+43.61	56+77.60	RTE 231/KINGSTON	RTE 231	RT	34.00	6.00	-	-	-	-	-	22.70	23	-
475	9 OF 32	56+64.98	56+80.51	RTE 231/KINGSTON	RTE 231	LT	15.60	6.00	-	-	-	-	-	10.40	11	TRANSITION SIDEWALK TO DRIVEWAY
475	9 OF 32	56+77.60	56+92.98	RTE 231/KINGSTON	RTE 231	RT	15.40	6.00	-	-	-	-	-	10.30	11	TRANSITION SIDEWALK TO DRIVEWAY
475	9 OF 32	56+80.51	57+07.35	RTE 231/KINGSTON	RTE 231	LT	26.90	6.00	-	-	-	-	-	18.00	18	-
475	9 OF 32	57+06.16	57+34.17	RTE 231/KINGSTON	RTE 231	RT	28.10	6.00	-	-	-	-	-	18.80	19	-
475	9 OF 32	57+07.35	57+22.90	RTE 231/KINGSTON	RTE 231	LT	15.60	6.00	-	-	-	-	-	10.40	11	TRANSITION SIDEWALK TO DRIVEWAY
475	9 OF 32	57+34.91	57+50.21	RTE 231/KINGSTON	RTE 231	LT	15.40	6.00	-	-	-	-	-	10.30	11	TRANSITION SIDEWALK TO DRIVEWAY
475	9 OF 32	57+46.06	57+74.69	RTE 231/KINGSTON	RTE 231	RT	28.70	6.00	-	-	-	-	-	19.20	20	-
475	9 OF 32	57+50.21	57+75.20	RTE 231/KINGSTON	RTE 231	LT	25.00	6.00	-	-	-	-	-	16.70	17	-
475	9 OF 32	57+75.20	57+84.17	RTE 231/KINGSTON	RTE 231	LT	9.00	20.00	COMPOUND PERPENDICULAR	13.30	9	10	1	-	20	AT GENEVA DR
475	9 OF 32	57+86.41	58+14.46	RTE 231/KINGSTON	RTE 231	RT	28.10	6.00	-	-	-	-	-	18.80	19	-
475	9 OF 32	58+15.95	58+27.24	RTE 231/KINGSTON	RTE 231	LT	11.30	19.00	COMPOUND PERPENDICULAR	12.40	12	10	1	-	24	AT GENEVA DR
475	9 OF 32	58+25.98	58+40.92	RTE 231/KINGSTON	RTE 231	RT	15.00	6.00	-	-	-	-	-	10.00	10	TRANSITION SIDEWALK TO DRIVEWAY
475	9 OF 32	58+27.24	58+58.27	RTE 231/KINGSTON	RTE 231	LT	31.10	6.00	-	-	-	-	-	20.80	21	-
475	9 OF 32	58+40.92	58+68.25	RTE 231/KINGSTON	RTE 231	RT	27.40	6.00	-	-	-	-	-	18.30	19	-
476	10 OF 32	58+58.27	58+74.01	RTE 231/KINGSTON	RTE 231	LT	15.80	19.00	-	-	-	-	-	33.40	34	TRANSITION SIDEWALK TO DRIVEWAY
476	10 OF 32	58+68.25	58+83.29	RTE 231/KINGSTON	RTE 231	RT	15.10	6.00	-	-	-	-	-	10.10	11	TRANSITION SIDEWALK TO DRIVEWAY
476	10 OF 32	58+86.32	59+19.42	RTE 231/KINGSTON	RTE 231	LT	33.20	6.00	-	-	-	-	-	22.20	23	-
476	10 OF 32	58+94.35	59+21.97	RTE 231/KINGSTON	RTE 231	RT	27.70	6.00	-	-	-	-	-	18.50	19	-
476	10 OF 32	59+30.75	59+63.23	RTE 231/KINGSTON	RTE 231	LT	32.50	6.00	-	-	-	-	-	21.70	22	-
476	10 OF 32	59+33.22	59+61.00	RTE 231/KINGSTON	RTE 231	RT	27.80	6.00	-	-	-	-	-	18.60	19	-
476	10 OF 32	59+72.83	59+99.30	RTE 231/KINGSTON	RTE 231	RT	26.50	6.00	-	-	-	-	-	17.70	18	-
476	10 OF 32	59+75.45	59+91.20	RTE 231/KINGSTON	RTE 231	LT	15.80	6.00	-	-	-	-	-	10.60	11	TRANSITION SIDEWALK TO DRIVEWAY
476	10 OF 32	59+91.20	60+22.42	RTE 231/KINGSTON	RTE 231	LT	31.30	6.00	-	-	-	-	-	20.90	21	-
476	10 OF 32	60+19.25	60+47.71	RTE 231/KINGSTON	RTE 231	RT	28.50	6.00	-	-	-	-	-	19.00	19	-
476	10 OF 32	60+22.42	60+38.47	RTE 231/KINGSTON	RTE 231	LT	16.10	6.00	-	-	-	-	-	10.80	11	TRANSITION SIDEWALK TO DRIVEWAY
476	10 OF 32	60+59.40	60+75.05	RTE 231/KINGSTON	RTE 231	RT	15.70	6.00	-	-	-	-	-	10.50	11	TRANSITION SIDEWALK TO DRIVEWAY
476	10 OF 32	60+59.56	60+75.21	RTE 231/KINGSTON	RTE 231	LT	15.70	6.00	-	-	-	-	-	10.50	11	TRANSITION SIDEWALK TO DRIVEWAY
476	10 OF 32	60+75.05	61+33.19	RTE 231/KINGSTON	RTE 231	RT	58.20	6.00	-	-	-	-	-	38.80	39	-
									TABLE 6 SUBTOTALS		40	40	4	642.00	716	-

LAYOUT	NS	01/2025
DRAWN	SMC	01/2025
REVIEWED	DJK	01/2025

SUMMARY OF QUANTITIES
SHEET 58 OF 106

STATE OF MISSOURI
DENNIS J KOSCIELSKI
NUMBER PE-2005000712
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED 7/25/2025

ROUTE	STATE
231	MO
DISTRICT	SHEET NO.
SL	3

COUNTY ST. LOUIS
JOB NO. J6S3631
CONTRACT ID.
PROJECT NO.
BRIDGE NO.

DESCRIPTION	DATE

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
MoDOT
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

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SIDEWALK AND ADA RAMPS (CONT.)

SHEET NO.	SPECIAL CURB DESIGN SHEET NO.	FROM STATION	TO STATION	ROADWAY	CENTERLINE	LOCATION	LENGTH (FT)	SIDEWALK WIDTH (FT)	SUGGESTED ADA RAMP TYPE	APPROX. ADA RAMP AREA (SQ YD)	ESTIMATED TYPE A CURB FOR ADA RAMP (LF)	TRUNCATED DOMES (SQ FT)	MISC. {CONCRETE CURB RAMP} (EA)	CONCRETE SIDEWALK, 4 IN. (SQ YD)	TYPE 5 AGGREGATE FOR BASE (4 IN. THICK) (SQ YD)	REMARKS
476	10 OF 32	60+75.21	61+15.46	RTE 231/KINGSTON	RTE 231	LT	40.30	6.00	-	-	-	-	-	26.90	27	-
476	10 OF 32	61+15.46	61+30.97	RTE 231/KINGSTON	RTE 231	LT	15.60	6.00	-	-	-	-	-	10.40	11	TRANSITION SIDEWALK TO DRIVEWAY
476	10 OF 32	61+26.00	61+33.19	RTE 231/KINGSTON	RTE 231	RT	7.20	6.00	TYPE 1 PARALLEL	4.00	8	10	1	-	5	AT TERREL DR
476	10 OF 32	61+26.41	61+30.42	RTE 231/KINGSTON	RTE 231	RT	4.10	6.00	-	-	-	-	-	2.80	3	-
476	10 OF 32	61+42.80	61+75.69	RTE 231/KINGSTON	RTE 231	LT	32.90	6.00	-	-	-	-	-	22.00	22	-
476	10 OF 32	61+64.24	61+75.86	RTE 231/KINGSTON	RTE 231	RT	11.70	6.00	TYPE 1 PARALLEL	11.20	12	10	1	-	8	AT TERREL DR
476	10 OF 32	61+66.62	61+70.42	RTE 231/KINGSTON	RTE 231	RT	3.90	6.00	-	-	-	-	-	2.60	3	-
476	10 OF 32	61+75.86	66+18.19	RTE 231/KINGSTON	RTE 231	RT	442.40	6.00	-	-	-	-	-	295.00	295	-
476	10 OF 32	61+86.64	62+19.97	RTE 231/KINGSTON	RTE 231	LT	33.40	6.00	-	-	-	-	-	22.30	23	-
476	10 OF 32	62+41.52	62+57.25	RTE 231/KINGSTON	RTE 231	LT	15.80	6.00	-	-	-	-	-	10.60	11	TRANSITION SIDEWALK TO DRIVEWAY
476	10 OF 32	62+57.25	62+97.94	RTE 231/KINGSTON	RTE 231	LT	40.70	6.00	-	-	-	-	-	27.20	28	-
476	10 OF 32	62+97.94	63+13.55	RTE 231/KINGSTON	RTE 231	LT	15.70	6.00	-	-	-	-	-	10.50	11	TRANSITION SIDEWALK TO DRIVEWAY
476	10 OF 32	63+37.49	63+71.86	RTE 231/KINGSTON	RTE 231	LT	34.40	6.00	-	-	-	-	-	23.00	23	-
477	11 OF 32	63+84.82	64+00.88	RTE 231/KINGSTON	RTE 231	LT	16.10	6.00	-	-	-	-	-	10.80	11	TRANSITION SIDEWALK TO DRIVEWAY
477	11 OF 32	64+00.88	64+40.15	RTE 231/KINGSTON	RTE 231	LT	39.30	6.00	-	-	-	-	-	26.20	27	-
477	11 OF 32	64+40.15	64+50.54	RTE 231/KINGSTON	RTE 231	LT	10.40	6.00	-	-	-	-	-	7.00	7	-
477	11 OF 32	64+50.54	64+70.11	RTE 231/KINGSTON	RTE 231	LT	19.60	6.00	-	-	-	-	-	13.10	14	-
477	11 OF 32	64+66.72	64+74.71	RTE 231/KINGSTON	RTE 231	LT	8.00	6.00	TYPE 1 PARALLEL	4.00	8	10	1	-	6	AT TACOMA DR
477	11 OF 32	65+07.48	65+25.24	RTE 231/KINGSTON	RTE 231	LT	17.80	6.00	TYPE 3 PARALLEL	8.90	18	10	1	-	12	AT TACOMA DR
477	11 OF 32	65+07.48	65+35.04	RTE 231/KINGSTON	RTE 231	LT	27.60	6.00	-	-	-	-	-	18.40	19	-
477	11 OF 32	65+12.31	65+14.84	RTE 231/KINGSTON	RTE 231	LT	2.60	11.00	-	-	-	-	-	3.20	4	-
477	11 OF 32	65+35.04	65+45.03	RTE 231/KINGSTON	RTE 231	LT	10.00	6.00	-	-	-	-	-	6.70	7	TRANSITION SIDEWALK TO DRIVEWAY
477	11 OF 32	65+45.03	65+95.80	RTE 231/KINGSTON	RTE 231	LT	50.80	6.00	-	-	-	-	-	33.90	34	-
477	11 OF 32	65+95.80	66+11.01	RTE 231/KINGSTON	RTE 231	LT	15.30	6.00	-	-	-	-	-	10.20	11	TRANSITION SIDEWALK TO DRIVEWAY
477	11 OF 32	66+18.19	66+35.18	RTE 231/KINGSTON	RTE 231	RT	17.00	6.00	-	-	-	-	-	11.40	12	TRANSITION SIDEWALK TO DRIVEWAY
477	11 OF 32	66+22.57	66+37.74	RTE 231/KINGSTON	RTE 231	LT	15.20	6.00	-	-	-	-	-	10.20	11	TRANSITION SIDEWALK TO DRIVEWAY
477	11 OF 32	66+37.74	67+31.51	RTE 231/KINGSTON	RTE 231	LT	93.80	6.00	-	-	-	-	-	62.60	63	-
477	11 OF 32	66+40.18	66+59.44	RTE 231/KINGSTON	RTE 231	RT	19.30	6.00	-	-	-	-	-	12.90	13	-
477	11 OF 32	67+16.97	67+32.47	RTE 231/KINGSTON	RTE 231	RT	15.50	6.00	-	-	-	-	-	10.40	11	TRANSITION SIDEWALK TO DRIVEWAY
477	11 OF 32	67+31.51	67+52.43	RTE 231/KINGSTON	RTE 231	LT	21.00	6.00	SMALL RADIUS PERPENDICULAR	13.10	21	12	1	-	14	AT SOUTHWARK LN
477	11 OF 32	67+32.47	68+13.02	RTE 231/KINGSTON	RTE 231	RT	80.60	6.00	-	-	-	-	-	53.80	54	-
477	11 OF 32	67+82.32	68+02.75	RTE 231/KINGSTON	RTE 231	LT	20.50	6.00	SMALL RADIUS PERPENDICULAR	12.60	21	12	1	-	14	AT SOUTHWARK LN
477	11 OF 32	68+02.75	69+78.33	RTE 231/KINGSTON	RTE 231	LT	175.60	6.00	-	-	-	-	-	117.10	118	-
477	11 OF 32	68+13.02	68+28.82	RTE 231/KINGSTON	RTE 231	RT	15.80	6.00	-	-	-	-	-	10.60	11	TRANSITION SIDEWALK TO DRIVEWAY
478	12 OF 32	68+73.08	68+88.43	RTE 231/KINGSTON	RTE 231	RT	15.40	6.00	-	-	-	-	-	10.30	11	TRANSITION SIDEWALK TO DRIVEWAY
478	12 OF 32	68+88.43	69+73.66	RTE 231/KINGSTON	RTE 231	RT	85.30	6.00	-	-	-	-	-	56.90	57	-
478	12 OF 32	69+73.66	69+89.01	RTE 231/KINGSTON	RTE 231	RT	15.40	6.00	-	-	-	-	-	10.30	11	TRANSITION SIDEWALK TO DRIVEWAY
478	12 OF 32	69+78.33	69+98.43	RTE 231/KINGSTON	RTE 231	LT	20.20	6.00	LARGE RADIUS PERPENDICULAR	11.20	21	21	1	-	14	AT EARLSFIELD LN
478	12 OF 32	70+35.13	70+51.49	RTE 231/KINGSTON	RTE 231	RT	16.40	6.00	-	-	-	-	-	11.00	11	TRANSITION SIDEWALK TO DRIVEWAY
478	12 OF 32	70+37.29	70+58.43	RTE 231/KINGSTON	RTE 231	LT	21.20	6.00	LARGE RADIUS PERPENDICULAR	11.60	22	23	1	-	15	AT EARLSFIELD LN
478	12 OF 32	70+51.49	71+11.69	RTE 231/KINGSTON	RTE 231	RT	60.20	6.00	-	-	-	-	-	40.20	41	-
478	12 OF 32	70+58.43	71+11.69	RTE 231/KINGSTON	RTE 231	LT	53.30	6.00	-	-	-	-	-	35.60	36	-
478	12 OF 32	71+11.69	71+36.69	RTE 231/KINGSTON	RTE 231	RT	25.00	6.00	TYPE 3 PARALLEL	16.70	25	18	1	-	17	-
478	12 OF 32	71+19.69	71+28.69	RTE 231/KINGSTON	RTE 231	CENTER	9.00	6.00	ISLAND CUT THROUGH	6.00	9	18	1	-	6	CONCRETE MEDIAN ISLAND
478	12 OF 32	71+19.69	71+28.69	RTE 231/KINGSTON	RTE 231	CENTER	9.00	6.00	ISLAND CUT THROUGH	8.00	9	36	1	-	6	CONCRETE MEDIAN ISLAND
									TABLE 7 SUBTOTALS	174	180	11	1,036.10	1,168	-

LAYOUT	NS	01/2025
DRAWN	SMC	01/2025
REVIEWED	DJK	01/2025

STATE OF MISSOURI
DENNIS J KOSCIELSKI
NUMBER PE-2005000712
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED
7/25/2025

ROUTE	STATE
231	MO
DISTRICT	SHEET NO.
SL	3

COUNTY
ST. LOUIS

JOB NO.
J6S3631

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION	DATE

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

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SUMMARY OF QUANTITIES
SHEET 59 OF 106

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SIDEWALK AND ADA RAMPS (CONT.)

SHEET NO.	SPECIAL CURB DESIGN SHEET NO.	FROM STATION	TO STATION	ROADWAY	CENTERLINE	LOCATION	LENGTH (FT)	SIDEWALK WIDTH (FT)	SUGGESTED ADA RAMP TYPE	APPROX. ADA RAMP AREA (SQ YD)	ESTIMATED TYPE A CURB FOR ADA RAMP (LF)	TRUNCATED DOMES (SQ FT)	MISC. {CONCRETE CURB RAMP} (EA)	CONCRETE SIDEWALK, 4 IN. (SQ YD)	TYPE 5 AGGREGATE FOR BASE (4 IN. THICK) (SQ YD)	REMARKS
478	12 OF 32	71+36.69	72+50.11	RTE 231/KINGSTON	RTE 231	LT	113.50	6.00	-	-	-	-	-	75.70	76	-
478	12 OF 32	71+36.69	72+43.00	RTE 231/KINGSTON	RTE 231	RT	106.40	6.00	-	-	-	-	-	71.00	71	-
478	12 OF 32	72+43.00	72+58.75	RTE 231/KINGSTON	RTE 231	RT	15.80	6.00	-	-	-	-	-	10.60	11	TRANSITION SIDEWALK TO DRIVEWAY
478	12 OF 32	72+50.11	72+69.19	RTE 231/KINGSTON	RTE 231	LT	19.10	6.00	LARGE RADIUS PERPENDICULAR	11.10	20	20	1	-	13	AT SOUTHAMPTON DR
478	12 OF 32	72+93.64	73+09.71	RTE 231/KINGSTON	RTE 231	RT	16.10	6.00	-	-	-	-	-	10.80	11	TRANSITION SIDEWALK TO DRIVEWAY
478	12 OF 32	73+05.85	73+29.97	RTE 231/KINGSTON	RTE 231	LT	24.20	6.00	LARGE RADIUS PERPENDICULAR	13.20	25	28	1	-	17	AT SOUTHAMPTON DR
478	12 OF 32	73+09.71	73+87.74	RTE 231/KINGSTON	RTE 231	RT	78.10	6.00	-	-	-	-	-	52.10	53	-
478	12 OF 32	73+29.97	75+11.05	RTE 231/KINGSTON	RTE 231	LT	181.10	6.00	-	-	-	-	-	120.80	121	-
479	13 OF 32	73+87.74	74+04.09	RTE 231/KINGSTON	RTE 231	RT	16.40	6.00	-	-	-	-	-	11.00	11	TRANSITION SIDEWALK TO DRIVEWAY
479	13 OF 32	74+42.35	74+58.70	RTE 231/KINGSTON	RTE 231	RT	16.40	6.00	-	-	-	-	-	11.00	11	TRANSITION SIDEWALK TO DRIVEWAY
479	13 OF 32	74+58.70	75+06.81	RTE 231/KINGSTON	RTE 231	RT	48.20	6.00	-	-	-	-	-	32.20	33	-
479	13 OF 32	75+06.81	75+23.16	RTE 231/KINGSTON	RTE 231	RT	16.40	6.00	-	-	-	-	-	11.00	11	TRANSITION SIDEWALK TO DRIVEWAY
479	13 OF 32	75+11.05	75+37.12	RTE 231/KINGSTON	RTE 231	LT	26.10	6.00	LARGE RADIUS PERPENDICULAR	14.00	27	32	1	-	18	AT WOOLWICH LN
479	13 OF 32	75+61.98	75+78.33	RTE 231/KINGSTON	RTE 231	RT	16.40	6.00	-	-	-	-	-	11.00	11	TRANSITION SIDEWALK TO DRIVEWAY
479	13 OF 32	75+78.33	78+81.86	RTE 231/KINGSTON	RTE 231	RT	303.60	6.00	-	-	-	-	-	202.40	203	-
479	13 OF 32	75+78.47	76+04.83	RTE 231/KINGSTON	RTE 231	LT	26.40	6.00	LARGE RADIUS PERPENDICULAR	14.20	27	32	1	-	18	AT WOOLWICH LN
479	13 OF 32	76+04.83	77+89.51	RTE 231/KINGSTON	RTE 231	LT	184.70	6.00	-	-	-	-	-	123.20	124	-
479	13 OF 32	77+89.51	78+08.98	RTE 231/KINGSTON	RTE 231	LT	19.50	6.00	LARGE RADIUS PERPENDICULAR	11.10	20	21	1	-	13	AT PENTONVILLE DR
479	13 OF 32	78+50.78	78+78.39	RTE 231/KINGSTON	RTE 231	LT	27.70	6.00	LARGE RADIUS PERPENDICULAR	14.70	28	34	1	-	19	AT PENTONVILLE DR
479	13 OF 32	78+78.39	80+57.73	RTE 231/KINGSTON	RTE 231	LT	179.40	6.00	-	-	-	-	-	119.60	120	-
480	14 OF 32	78+81.86	78+98.21	RTE 231/KINGSTON	RTE 231	RT	16.40	6.00	-	-	-	-	-	11.00	11	TRANSITION SIDEWALK TO DRIVEWAY
480	14 OF 32	79+52.40	79+74.71	RTE 231/KINGSTON	RTE 231	RT	22.40	6.00	-	-	-	-	-	15.00	15	TRANSITION SIDEWALK TO DRIVEWAY
480	14 OF 32	79+74.71	80+46.26	RTE 231/KINGSTON	RTE 231	RT	71.60	6.00	-	-	-	-	-	47.80	48	-
480	14 OF 32	80+46.26	80+62.70	RTE 231/KINGSTON	RTE 231	RT	16.50	6.00	-	-	-	-	-	11.00	11	TRANSITION SIDEWALK TO DRIVEWAY
480	14 OF 32	80+57.73	80+80.12	RTE 231/KINGSTON	RTE 231	LT	22.40	6.00	LARGE RADIUS PERPENDICULAR	16.10	23	20	1	-	15	AT WALWORTH DR
480	14 OF 32	80+65.84	80+79.96	RTE 231/KINGSTON	RTE 231	LT	14.20	6.00	-	-	-	-	-	9.50	10	-
480	14 OF 32	81+04.10	81+19.97	RTE 231/KINGSTON	RTE 231	RT	15.90	6.00	-	-	-	-	-	10.60	11	TRANSITION SIDEWALK TO DRIVEWAY
480	14 OF 32	81+19.97	82+14.04	RTE 231/KINGSTON	RTE 231	RT	94.10	6.00	-	-	-	-	-	62.80	63	-
480	14 OF 32	81+20.15	81+47.11	RTE 231/KINGSTON	RTE 231	LT	27.00	6.00	LARGE RADIUS PERPENDICULAR	14.40	27	33	1	-	18	AT WALWORTH DR
480	14 OF 32	81+47.11	83+05.86	RTE 231/KINGSTON	RTE 231	LT	158.80	6.00	-	-	-	-	-	105.90	106	-
480	14 OF 32	82+14.04	82+30.55	RTE 231/KINGSTON	RTE 231	RT	16.60	6.00	-	-	-	-	-	11.10	12	TRANSITION SIDEWALK TO DRIVEWAY
480	14 OF 32	82+68.94	82+79.07	RTE 231/KINGSTON	RTE 231	RT	10.20	6.00	-	-	-	-	-	6.80	7	TRANSITION SIDEWALK TO DRIVEWAY
480	14 OF 32	82+79.07	83+81.31	RTE 231/KINGSTON	RTE 231	RT	102.30	6.00	-	-	-	-	-	68.20	69	-
480	14 OF 32	83+05.86	83+15.86	RTE 231/KINGSTON	RTE 231	LT	10.00	6.00	-	-	-	-	-	6.70	7	TRANSITION SIDEWALK TO DRIVEWAY
480	14 OF 32	83+15.86	83+34.62	RTE 231/KINGSTON	RTE 231	LT	18.80	6.00	-	-	-	-	-	12.60	13	-
480	14 OF 32	83+24.86	83+34.62	RTE 231/KINGSTON	RTE 231	LT	9.80	6.00	SMALL RADIUS PERPENDICULAR	5.00	10	11	1	-	7	AT LAMBETH LN
480	14 OF 32	83+61.42	83+75.53	RTE 231/KINGSTON	RTE 231	LT	14.20	6.00	SMALL RADIUS PERPENDICULAR	7.40	15	10	1	-	10	AT LAMBETH LN
480	14 OF 32	83+75.53	85+73.19	RTE 231/KINGSTON	RTE 231	LT	197.70	6.00	-	-	-	-	-	131.80	132	-
480	14 OF 32	83+81.31	83+97.05	RTE 231/KINGSTON	RTE 231	RT	15.80	6.00	-	-	-	-	-	10.60	11	TRANSITION SIDEWALK TO DRIVEWAY
481	15 OF 32	84+33.51	84+49.26	RTE 231/KINGSTON	RTE 231	RT	15.80	6.00	-	-	-	-	-	10.60	11	TRANSITION SIDEWALK TO DRIVEWAY
481	15 OF 32	84+49.26	86+69.96	RTE 231/KINGSTON	RTE 231	RT	220.70	6.00	-	-	-	-	-	147.20	148	-
481	15 OF 32	85+73.19	85+86.08	RTE 231/KINGSTON	RTE 231	LT	12.90	6.00	SMALL RADIUS PERPENDICULAR	7.00	13	10	1	-	9	AT CARRINGTON LN
481	15 OF 32	86+11.10	86+23.99	RTE 231/KINGSTON	RTE 231	LT	12.90	6.00	SMALL RADIUS PERPENDICULAR	7.10	13	10	1	-	9	AT CARRINGTON LN
481	15 OF 32	86+23.99	88+24.43	RTE 231/KINGSTON	RTE 231	LT	200.50	6.00	-	-	-	-	-	133.70	134	-
481	15 OF 32	86+69.96	86+86.31	RTE 231/KINGSTON	RTE 231	RT	16.40	6.00	-	-	-	-	-	11.00	11	TRANSITION SIDEWALK TO DRIVEWAY
									TABLE 8 SUBTOTALS	248	261	12	1,686.30	1,863	-

LAYOUT	NS	01/2025
DRAWN	SMC	01/2025
REVIEWED	DJK	01/2025

SUMMARY OF QUANTITIES
SHEET 60 OF 106

I:\22jobs\22H0100\CAD\Road\Sheet\003_QU_60_J6S3631_I1.dgn

STATE OF MISSOURI
DENNIS J KOSCIELSKI
NUMBER PE-2005000712
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED
7/25/2025

ROUTE	STATE
231	MO
DISTRICT	SHEET NO.
SL	3

COUNTY
ST. LOUIS

JOB NO.
J6S3631

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION	DATE

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

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Professional Engineer 001632
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314.770.0467

SIDEWALK AND ADA RAMPS (CONT.)

SHEET NO.	SPECIAL CURB DESIGN SHEET NO.	FROM STATION	TO STATION	ROADWAY	CENTERLINE	LOCATION	LENGTH (FT)	SIDEWALK WIDTH (FT)	SUGGESTED ADA RAMP TYPE	APPROX. ADA RAMP AREA (SQ YD)	ESTIMATED TYPE A CURB FOR ADA RAMP (LF)	TRUNCATED DOMES (SQ FT)	MISC. {CONCRETE CURB RAMP} (EA)	CONCRETE SIDEWALK, 4 IN. (SQ YD)	TYPE 5 AGGREGATE FOR BASE (4 IN. THICK) (SQ YD)	REMARKS
481	15 OF 32	87+15.29	87+31.64	RTE 231/KINGSTON	RTE 231	RT	16.40	6.00	-	-	-	-	-	11.00	11	TRANSITION SIDEWALK TO DRIVEWAY
481	15 OF 32	87+31.64	89+44.79	RTE 231/KINGSTON	RTE 231	RT	213.20	6.00	-	-	-	-	-	142.20	143	-
481	15 OF 32	88+24.43	88+40.35	RTE 231/KINGSTON	RTE 231	LT	16.00	6.00	-	-	-	-	-	10.70	11	TRANSITION SIDEWALK TO DRIVEWAY
481	15 OF 32	88+82.29	88+91.45	RTE 231/KINGSTON	RTE 231	LT	9.20	6.00	-	-	-	-	-	6.20	7	TRANSITION SIDEWALK TO DRIVEWAY
481	15 OF 32	88+82.29	88+98.45	RTE 231/KINGSTON	RTE 231	LT	16.20	6.00	-	-	-	-	-	10.80	11	-
481	15 OF 32	88+98.45	89+05.75	RTE 231/KINGSTON	RTE 231	LT	7.30	6.00	-	-	-	-	-	4.90	5	TRANSITION SIDEWALK TO DRIVEWAY
481	15 OF 32	89+05.75	89+44.79	RTE 231/KINGSTON	RTE 231	LT	39.10	6.00	-	-	-	-	-	26.10	27	-
482	16 OF 32	89+44.79	89+69.79	RTE 231/KINGSTON	RTE 231	LT	25.00	6.00	-	-	-	-	-	16.70	17	TRANSITION SIDEWALK TO DRIVEWAY
482	16 OF 32	89+44.79	89+69.79	RTE 231/KINGSTON	RTE 231	RT	25.00	6.00	-	-	-	-	-	16.70	17	TRANSITION SIDEWALK TO DRIVEWAY
482	16 OF 32	89+52.79	89+61.79	RTE 231/KINGSTON	RTE 231	CENTER	9.00	6.00	ISLAND CUT THROUGH	5.80	9	18	1	-	6	CONCRETE MEDIAN ISLAND
482	16 OF 32	89+52.79	89+61.79	RTE 231/KINGSTON	RTE 231	CENTER	9.00	8.00	ISLAND CUT THROUGH	8.00	9	36	1	-	8	CONCRETE MEDIAN ISLAND
482	16 OF 32	89+52.79	89+61.79	RTE 231/KINGSTON	RTE 231	CENTER	9.00	5.50	ISLAND CUT THROUGH	5.50	9	18	1	-	6	CONCRETE MEDIAN ISLAND
482	16 OF 32	89+69.79	90+48.34	RTE 231/KINGSTON	RTE 231	LT	78.60	6.00	-	-	-	-	-	52.40	53	-
482	16 OF 32	89+69.79	90+61.19	RTE 231/KINGSTON	RTE 231	RT	91.40	6.00	-	-	-	-	-	61.00	61	-
482	16 OF 32	90+48.34	90+68.43	RTE 231/KINGSTON	RTE 231	LT	20.10	6.00	LARGE RADIUS PERPENDICULAR	11.50	21	22	1	-	14	AT CLYDE AVE
482	16 OF 32	90+61.19	90+77.86	RTE 231/KINGSTON	RTE 231	RT	16.70	6.00	-	-	-	-	-	11.20	12	TRANSITION SIDEWALK TO DRIVEWAY
482	16 OF 32	90+95.32	91+14.41	RTE 231/KINGSTON	RTE 231	LT	19.10	6.00	LARGE RADIUS PERPENDICULAR	10.70	20	21	1	-	13	AT CLYDE AVE
482	16 OF 32	91+10.09	91+27.18	RTE 231/KINGSTON	RTE 231	RT	17.10	6.00	-	-	-	-	-	11.40	12	TRANSITION SIDEWALK TO DRIVEWAY
482	16 OF 32	91+27.18	92+81.25	RTE 231/KINGSTON	RTE 231	RT	154.10	6.00	-	-	-	-	-	102.80	103	-
482	16 OF 32	91+51.17	91+69.52	RTE 231/KINGSTON	RTE 231	LT	18.40	6.00	-	-	-	-	-	12.30	13	TRANSITION SIDEWALK TO DRIVEWAY
482	16 OF 32	91+69.52	91+75.42	RTE 231/KINGSTON	RTE 231	LT	5.90	6.00	-	-	-	-	-	4.00	4	-
482	16 OF 32	91+75.42	91+90.63	RTE 231/KINGSTON	RTE 231	LT	15.30	6.00	-	-	-	-	-	10.20	11	TRANSITION SIDEWALK TO DRIVEWAY
482	16 OF 32	92+44.11	92+52.45	RTE 231/KINGSTON	RTE 231	LT	8.40	6.00	-	-	-	-	-	5.60	6	TRANSITION SIDEWALK TO DRIVEWAY
482	16 OF 32	92+63.35	92+79.49	RTE 231/KINGSTON	RTE 231	LT	16.20	6.00	-	-	-	-	-	10.80	11	TRANSITION SIDEWALK TO DRIVEWAY
482	16 OF 32	92+79.49	92+98.14	RTE 231/KINGSTON	RTE 231	LT	18.70	6.00	-	-	-	-	-	12.50	13	-
482	16 OF 32	92+81.25	92+96.18	RTE 231/KINGSTON	RTE 231	RT	15.00	6.00	-	-	-	-	-	10.00	10	TRANSITION SIDEWALK TO DRIVEWAY
482	16 OF 32	92+98.14	93+14.66	RTE 231/KINGSTON	RTE 231	LT	16.60	6.00	-	-	-	-	-	11.10	12	TRANSITION SIDEWALK TO DRIVEWAY
482	16 OF 32	93+27.26	93+65.04	RTE 231/KINGSTON	RTE 231	RT	37.80	6.00	-	-	-	-	-	25.20	26	-
482	16 OF 32	93+34.92	93+51.41	RTE 231/KINGSTON	RTE 231	LT	16.50	6.00	-	-	-	-	-	11.00	11	TRANSITION SIDEWALK TO DRIVEWAY
482	16 OF 32	93+51.41	93+92.31	RTE 231/KINGSTON	RTE 231	LT	40.90	6.00	-	-	-	-	-	27.30	28	-
482	16 OF 32	93+89.94	94+19.15	RTE 231/KINGSTON	RTE 231	RT	29.30	6.00	-	-	-	-	-	19.60	20	-
482	16 OF 32	93+92.31	94+10.97	RTE 231/KINGSTON	RTE 231	LT	18.70	6.00	-	-	-	-	-	12.50	13	TRANSITION SIDEWALK TO DRIVEWAY
483	17 OF 32	94+41.17	94+60.16	RTE 231/KINGSTON	RTE 231	LT	19.00	6.00	-	-	-	-	-	12.70	13	TRANSITION SIDEWALK TO DRIVEWAY
483	17 OF 32	94+60.16	94+98.76	RTE 231/KINGSTON	RTE 231	LT	38.70	6.00	-	-	-	-	-	25.80	26	-
483	17 OF 32	94+75.49	94+87.80	RTE 231/KINGSTON	RTE 231	RT	12.40	6.00	-	-	-	-	-	8.30	9	TRANSITION SIDEWALK TO DRIVEWAY
483	17 OF 32	94+87.80	95+16.20	RTE 231/KINGSTON	RTE 231	RT	28.50	6.00	-	-	-	-	-	19.00	19	-
483	17 OF 32	94+98.76	95+15.34	RTE 231/KINGSTON	RTE 231	LT	16.60	6.00	-	-	-	-	-	11.10	12	TRANSITION SIDEWALK TO DRIVEWAY
483	17 OF 32	95+16.20	95+28.48	RTE 231/KINGSTON	RTE 231	RT	12.30	6.00	-	-	-	-	-	8.20	9	TRANSITION SIDEWALK TO DRIVEWAY
483	17 OF 32	95+36.45	95+51.77	RTE 231/KINGSTON	RTE 231	LT	15.40	6.00	-	-	-	-	-	10.30	11	TRANSITION SIDEWALK TO DRIVEWAY
483	17 OF 32	95+51.77	95+98.58	RTE 231/KINGSTON	RTE 231	LT	46.90	6.00	-	-	-	-	-	31.30	32	-
483	17 OF 32	95+88.86	96+04.60	RTE 231/KINGSTON	RTE 231	RT	15.80	6.00	-	-	-	-	-	10.60	11	TRANSITION SIDEWALK TO DRIVEWAY
483	17 OF 32	95+98.58	96+14.69	RTE 231/KINGSTON	RTE 231	LT	16.20	6.00	-	-	-	-	-	10.80	11	TRANSITION SIDEWALK TO DRIVEWAY
483	17 OF 32	96+04.60	99+93.81	RTE 231/KINGSTON	RTE 231	RT	389.30	6.00	-	-	-	-	-	259.60	260	-
483	17 OF 32	96+33.74	96+49.72	RTE 231/KINGSTON	RTE 231	LT	16.00	6.00	-	-	-	-	-	10.70	11	TRANSITION SIDEWALK TO DRIVEWAY
483	17 OF 32	96+49.72	96+98.36	RTE 231/KINGSTON	RTE 231	LT	48.70	6.00	-	-	-	-	-	32.50	33	-
									TABLE 9 SUBTOTALS	68	115	5	1,107.10	1,172	-

LAYOUT	NS	01/2025
DRAWN	SMC	01/2025
REVIEWED	DJK	01/2025

SUMMARY OF QUANTITIES
SHEET 61 OF 106

STATE OF MISSOURI
DENNIS J KOSCIELSKI
NUMBER PE-2005000712
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED
7/25/2025

ROUTE	STATE
231	MO
DISTRICT	SHEET NO.
SL	3

COUNTY
ST. LOUIS

JOB NO.
J6S3631

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION	DATE

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

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SIDEWALK AND ADA RAMPS (CONT.)

SHEET NO.	SPECIAL CURB DESIGN SHEET NO.	FROM STATION	TO STATION	ROADWAY	CENTERLINE	LOCATION	LENGTH (FT)	SIDEWALK WIDTH (FT)	SUGGESTED ADA RAMP TYPE	APPROX. ADA RAMP AREA (SQ YD)	ESTIMATED TYPE A CURB FOR ADA RAMP (LF)	TRUNCATED DOMES (SQ FT)	MISC. {CONCRETE CURB RAMP} (EA)	CONCRETE SIDEWALK, 4 IN. (SQ YD)	TYPE 5 AGGREGATE FOR BASE (4 IN. THICK) (SQ YD)	REMARKS
483	17 OF 32	96+98.36	97+13.67	RTE 231/KINGSTON	RTE 231	LT	15.40	6.00	-	-	-	-	-	10.30	11	TRANSITION SIDEWALK TO DRIVEWAY
483	17 OF 32	97+34.02	97+50.40	RTE 231/KINGSTON	RTE 231	LT	16.40	6.00	-	-	-	-	-	11.00	11	TRANSITION SIDEWALK TO DRIVEWAY
483	17 OF 32	97+50.40	97+99.00	RTE 231/KINGSTON	RTE 231	LT	48.70	6.00	-	-	-	-	-	32.50	33	-
483	17 OF 32	97+99.00	98+15.37	RTE 231/KINGSTON	RTE 231	LT	16.40	6.00	-	-	-	-	-	11.00	11	TRANSITION SIDEWALK TO DRIVEWAY
483	17 OF 32	98+33.94	98+50.41	RTE 231/KINGSTON	RTE 231	LT	16.50	6.00	-	-	-	-	-	11.00	11	TRANSITION SIDEWALK TO DRIVEWAY
483	17 OF 32	98+50.41	98+97.63	RTE 231/KINGSTON	RTE 231	LT	47.30	6.00	-	-	-	-	-	31.60	32	-
483	17 OF 32	98+97.63	99+13.95	RTE 231/KINGSTON	RTE 231	LT	16.40	6.00	-	-	-	-	-	11.00	11	TRANSITION SIDEWALK TO DRIVEWAY
484	18 OF 32	99+28.30	99+44.45	RTE 231/BROADWAY	RTE 231	LT	16.20	6.00	-	-	-	-	-	10.80	11	TRANSITION SIDEWALK TO DRIVEWAY
484	18 OF 32	99+44.45	99+48.57	RTE 231/BROADWAY	RTE 231	LT	4.20	6.00	-	-	-	-	-	2.80	3	-
484	18 OF 32	99+48.57	99+64.68	RTE 231/BROADWAY	RTE 231	LT	16.20	6.00	-	-	-	-	-	10.80	11	TRANSITION SIDEWALK TO DRIVEWAY
484	18 OF 32	99+76.58	99+92.18	RTE 231/BROADWAY	RTE 231	LT	15.70	6.00	-	-	-	-	-	10.50	11	TRANSITION SIDEWALK TO DRIVEWAY
484	18 OF 32	99+92.18	100+67.54	RTE 231/BROADWAY	RTE 231	LT	75.40	6.00	-	-	-	-	-	50.30	51	-
484	18 OF 32	99+93.81	100+14.77	RTE 231/BROADWAY	RTE 231	RT	21.00	6.00	LARGE RADIUS PERPENDICULAR	11.90	21	19	1	-	14	AT S BROADWAY ST
484	18 OF 32	99+93.81	100+24.14	RTE 231/BROADWAY	RTE 231	RT	30.40	6.00	-	-	-	-	-	20.30	21	-
484	18 OF 32	100+67.54	100+83.89	RTE 231/BROADWAY	RTE 231	LT	16.40	6.00	-	-	-	-	-	11.00	11	TRANSITION SIDEWALK TO DRIVEWAY
484	18 OF 32	100+68.87	100+91.26	RTE 231/BROADWAY	RTE 231	RT	22.40	6.00	-	-	-	-	-	15.00	15	-
484	18 OF 32	100+75.12	100+91.26	RTE 231/BROADWAY	RTE 231	RT	16.20	6.00	SMALL RADIUS PERPENDICULAR	8.30	17	10	1	-	11	AT S BROADWAY ST
484	18 OF 32	100+85.57	101+34.37	RTE 231/BROADWAY	RTE 231	RT	48.90	6.00	-	-	-	-	-	32.60	33	-
484	18 OF 32	101+19.48	101+35.95	RTE 231/BROADWAY	RTE 231	LT	16.50	6.00	-	-	-	-	-	11.00	11	TRANSITION SIDEWALK TO DRIVEWAY
484	18 OF 32	101+34.37	101+55.73	RTE 231/BROADWAY	RTE 231	RT	21.40	6.00	-	-	-	-	-	14.30	15	TRANSITION SIDEWALK TO DRIVEWAY
484	18 OF 32	101+35.95	101+75.97	RTE 231/BROADWAY	RTE 231	LT	40.10	6.00	-	-	-	-	-	26.80	27	-
484	18 OF 32	101+75.97	101+92.09	RTE 231/BROADWAY	RTE 231	LT	16.20	6.00	-	-	-	-	-	10.80	11	TRANSITION SIDEWALK TO DRIVEWAY
484	18 OF 32	101+98.52	102+15.56	RTE 231/BROADWAY	RTE 231	RT	17.10	6.00	-	-	-	-	-	11.40	12	TRANSITION SIDEWALK TO DRIVEWAY
484	18 OF 32	102+15.56	102+54.93	RTE 231/BROADWAY	RTE 231	RT	39.40	6.00	-	-	-	-	-	26.30	27	-
484	18 OF 32	102+26.35	102+45.70	RTE 231/BROADWAY	RTE 231	LT	19.40	6.00	-	-	-	-	-	13.00	13	-
484	18 OF 32	102+54.93	102+70.94	RTE 231/BROADWAY	RTE 231	RT	16.10	6.00	-	-	-	-	-	10.80	11	TRANSITION SIDEWALK TO DRIVEWAY
484	18 OF 32	102+69.10	102+84.81	RTE 231/BROADWAY	RTE 231	LT	15.80	6.00	-	-	-	-	-	10.60	11	TRANSITION SIDEWALK TO DRIVEWAY
484	18 OF 32	102+84.81	103+32.04	RTE 231/BROADWAY	RTE 231	LT	47.30	6.00	-	-	-	-	-	31.60	32	-
484	18 OF 32	103+11.73	103+34.36	RTE 231/BROADWAY	RTE 231	RT	22.70	6.00	-	-	-	-	-	15.20	16	TRANSITION SIDEWALK TO DRIVEWAY
484	18 OF 32	103+32.04	103+46.94	RTE 231/BROADWAY	RTE 231	LT	14.90	6.00	-	-	-	-	-	10.00	10	TRANSITION SIDEWALK TO DRIVEWAY
484	18 OF 32	103+34.36	103+97.06	RTE 231/BROADWAY	RTE 231	RT	62.70	6.00	-	-	-	-	-	41.80	42	-
484	18 OF 32	103+63.31	103+78.23	RTE 231/BROADWAY	RTE 231	LT	15.00	6.00	-	-	-	-	-	10.00	10	TRANSITION SIDEWALK TO DRIVEWAY
484	18 OF 32	103+78.23	104+02.44	RTE 231/BROADWAY	RTE 231	LT	24.30	6.00	-	-	-	-	-	16.20	17	-
484	18 OF 32	103+97.06	104+10.16	RTE 231/BROADWAY	RTE 231	RT	13.20	6.00	-	-	-	-	-	8.80	9	TRANSITION SIDEWALK TO DRIVEWAY
484	18 OF 32	104+02.44	104+16.12	RTE 231/BROADWAY	RTE 231	LT	13.70	6.00	-	-	-	-	-	9.20	10	TRANSITION SIDEWALK TO DRIVEWAY
484	18 OF 32	104+29.70	104+45.73	RTE 231/BROADWAY	RTE 231	LT	16.10	6.00	-	-	-	-	-	10.80	11	TRANSITION SIDEWALK TO DRIVEWAY
484	18 OF 32	104+30.93	104+59.69	RTE 231/BROADWAY	RTE 231	RT	28.80	6.00	-	-	-	-	-	19.20	20	-
485	19 OF 32	104+45.73	105+02.94	RTE 231/BROADWAY	RTE 231	LT	57.30	6.00	-	-	-	-	-	38.20	39	-
485	19 OF 32	104+74.51	104+89.06	RTE 231/BROADWAY	RTE 231	RT	14.60	6.00	-	-	-	-	-	9.80	10	TRANSITION SIDEWALK TO DRIVEWAY
485	19 OF 32	104+89.06	105+18.66	RTE 231/BROADWAY	RTE 231	RT	29.70	6.00	-	-	-	-	-	19.80	20	-
485	19 OF 32	105+02.94	105+18.13	RTE 231/BROADWAY	RTE 231	LT	15.20	6.00	-	-	-	-	-	10.20	11	TRANSITION SIDEWALK TO DRIVEWAY
485	19 OF 32	105+18.66	105+33.55	RTE 231/BROADWAY	RTE 231	RT	14.90	6.00	-	-	-	-	-	10.00	10	TRANSITION SIDEWALK TO DRIVEWAY
485	19 OF 32	105+32.07	105+47.26	RTE 231/BROADWAY	RTE 231	LT	15.20	6.00	-	-	-	-	-	10.20	11	TRANSITION SIDEWALK TO DRIVEWAY
485	19 OF 32	105+47.26	106+28.61	RTE 231/BROADWAY	RTE 231	LT	81.40	6.00	-	-	-	-	-	54.30	55	-
485	19 OF 32	105+52.54	105+67.54	RTE 231/BROADWAY	RTE 231	RT	15.00	6.00	-	-	-	-	-	10.00	10	TRANSITION SIDEWALK TO DRIVEWAY
									TABLE 10 SUBTOTALS		38	29	2	752.80	793	-

LAYOUT	NS	01/2025
DRAWN	SMC	01/2025
REVIEWED	DJK	01/2025

SUMMARY OF QUANTITIES
SHEET 62 OF 106

I:\22jobs\22H0100\CAD\Road\Sheet\003_QU_62_J6S3631_I1.dgn

STATE OF MISSOURI
DENNIS J KOSCIELSKI
NUMBER PE-2005000712
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED
7/25/2025

ROUTE	STATE
231	MO
DISTRICT	SHEET NO.
SL	3

COUNTY
ST. LOUIS

JOB NO.
J6S3631

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION	DATE

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

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SIDEWALK AND ADA RAMPS (CONT.)

SHEET NO.	SPECIAL CURB DESIGN SHEET NO.	FROM STATION	TO STATION	ROADWAY	CENTERLINE	LOCATION	LENGTH (FT)	SIDEWALK WIDTH (FT)	SUGGESTED ADA RAMP TYPE	APPROX. ADA RAMP AREA (SQ YD)	ESTIMATED TYPE A CURB FOR ADA RAMP (LF)	TRUNCATED DOMES (SQ FT)	MISC. {CONCRETE CURB RAMP} (EA)	CONCRETE SIDEWALK, 4 IN. (SQ YD)	TYPE 5 AGGREGATE FOR BASE (4 IN. THICK) (SQ YD)	REMARKS
485	19 OF 32	105+67.54	105+99.17	RTE 231/BROADWAY	RTE 231	RT	31.70	6.00	-	-	-	-	-	21.20	22	-
485	19 OF 32	105+99.17	106+13.86	RTE 231/BROADWAY	RTE 231	RT	14.70	6.00	-	-	-	-	-	9.80	10	TRANSITION SIDEWALK TO DRIVEWAY
485	19 OF 32	106+28.61	106+41.67	RTE 231/BROADWAY	RTE 231	LT	13.10	6.00	-	-	-	-	-	8.80	9	TRANSITION SIDEWALK TO DRIVEWAY
485	19 OF 32	106+34.36	106+47.49	RTE 231/BROADWAY	RTE 231	RT	13.20	6.00	-	-	-	-	-	8.80	9	-
485	19 OF 32	106+61.51	106+74.54	RTE 231/BROADWAY	RTE 231	LT	13.10	6.00	-	-	-	-	-	8.80	9	TRANSITION SIDEWALK TO DRIVEWAY
485	19 OF 32	106+74.54	107+47.58	RTE 231/BROADWAY	RTE 231	LT	73.10	6.00	-	-	-	-	-	48.80	49	-
485	19 OF 32	106+76.01	106+92.41	RTE 231/BROADWAY	RTE 231	RT	16.40	6.00	-	-	-	-	-	11.00	11	TRANSITION SIDEWALK TO DRIVEWAY
485	19 OF 32	106+92.41	107+47.58	RTE 231/BROADWAY	RTE 231	RT	55.20	6.00	-	-	-	-	-	36.80	37	-
485	19 OF 32	107+47.58	107+74.96	RTE 231/BROADWAY	RTE 231	LT	27.40	6.00	TYPE 3 PARALLEL	20.30	28	10	1	-	19	AT RIPA AVE
485	19 OF 32	107+47.58	107+72.58	RTE 231/BROADWAY	RTE 231	RT	25.00	6.00	TYPE 3 PARALLEL	12.50	25	10	1	-	17	AT RIPA AVE
485	19 OF 32	107+72.58	107+96.27	RTE 231/BROADWAY	RTE 231	RT	23.70	6.00	-	-	-	-	-	15.80	16	-
485	19 OF 32	107+74.96	107+81.70	RTE 231/BROADWAY	RTE 231	LT	6.80	6.00	-	-	-	-	-	4.60	5	-
485	19 OF 32	107+76.25	107+86.11	RTE 231/BROADWAY	RTE 231	LT	9.90	6.00	COMPOUND PERPENDICULAR	18.90	10	10	1	-	7	AT RIPA AVE
485	19 OF 32	107+89.12	107+96.63	RTE 231/BROADWAY	RTE 231	RT	7.60	6.00	TYPE 3 PARALLEL	11.50	8	10	1	-	6	AT RIPA AVE
485	19 OF 32	141+40.79	141+45.79	RIPA AVE	RIPA AVE	LT	5.00	6.00	COMPOUND PERPENDICULAR	6.70	5	22	1	-	4	AT RIPA AVE
485	19 OF 32	108+21.28	108+33.39	RTE 231/BROADWAY	RTE 231	RT	12.20	6.00	-	-	-	-	-	8.20	9	-
485	19 OF 32	108+21.63	108+47.06	RTE 231/BROADWAY	RTE 231	LT	25.50	6.00	DUAL PERPENDICULAR	29.50	26	21	1	-	17	AT RIPA AVE
485	19 OF 32	108+21.63	108+47.06	RTE 231/BROADWAY	RTE 231	LT	25.50	6.00	DUAL PERPENDICULAR	29.50	26	21	1	-	17	AT RIPA AVE
485	19 OF 32	108+33.00	108+39.00	RTE 231/BROADWAY	RTE 231	RT	6.00	6.00	COMPOUND PERPENDICULAR	8.80	6	22	1	-	4	AT RIPA AVE
485	19 OF 32	108+39.00	109+50.13	RTE 231/BROADWAY	RTE 231	RT	111.20	6.00	-	-	-	-	-	74.20	75	-
485	19 OF 32	108+47.06	108+88.28	RTE 231/BROADWAY	RTE 231	LT	41.30	6.00	-	-	-	-	-	27.60	28	-
485	19 OF 32	108+88.28	109+02.83	RTE 231/BROADWAY	RTE 231	LT	14.60	6.00	-	-	-	-	-	9.80	10	TRANSITION SIDEWALK TO DRIVEWAY
485	19 OF 32	109+16.09	109+31.29	RTE 231/BROADWAY	RTE 231	LT	15.30	6.00	-	-	-	-	-	10.20	11	TRANSITION SIDEWALK TO DRIVEWAY
485	19 OF 32	109+31.29	109+88.60	RTE 231/BROADWAY	RTE 231	LT	57.40	6.00	-	-	-	-	-	38.30	39	-
486	20 OF 32	109+50.13	109+64.77	RTE 231/BROADWAY	RTE 231	RT	14.70	6.00	-	-	-	-	-	9.80	10	TRANSITION SIDEWALK TO DRIVEWAY
486	20 OF 32	109+88.60	110+04.94	RTE 231/BROADWAY	RTE 231	LT	16.40	6.00	-	-	-	-	-	11.00	11	TRANSITION SIDEWALK TO DRIVEWAY
486	20 OF 32	109+99.40	110+14.03	RTE 231/BROADWAY	RTE 231	RT	14.70	6.00	-	-	-	-	-	9.80	10	TRANSITION SIDEWALK TO DRIVEWAY
486	20 OF 32	110+14.03	112+00.14	RTE 231/BROADWAY	RTE 231	RT	186.20	6.00	-	-	-	-	-	124.20	125	-
486	20 OF 32	110+25.94	110+41.13	RTE 231/BROADWAY	RTE 231	LT	15.20	6.00	-	-	-	-	-	10.20	11	TRANSITION SIDEWALK TO DRIVEWAY
486	20 OF 32	110+41.13	110+51.61	RTE 231/BROADWAY	RTE 231	LT	10.50	6.00	-	-	-	-	-	7.00	7	-
486	20 OF 32	110+51.61	110+65.62	RTE 231/BROADWAY	RTE 231	LT	14.10	6.00	-	-	-	-	-	9.40	10	TRANSITION SIDEWALK TO DRIVEWAY
486	20 OF 32	110+92.03	111+07.20	RTE 231/BROADWAY	RTE 231	LT	15.20	6.00	-	-	-	-	-	10.20	11	TRANSITION SIDEWALK TO DRIVEWAY
486	20 OF 32	111+07.20	111+73.20	RTE 231/BROADWAY	RTE 231	LT	66.00	6.00	-	-	-	-	-	44.00	44	-
486	20 OF 32	111+73.20	111+87.02	RTE 231/BROADWAY	RTE 231	LT	13.90	6.00	-	-	-	-	-	9.30	10	TRANSITION SIDEWALK TO DRIVEWAY
486	20 OF 32	112+00.14	112+13.95	RTE 231/BROADWAY	RTE 231	RT	13.90	6.00	-	-	-	-	-	9.30	10	TRANSITION SIDEWALK TO DRIVEWAY
486	20 OF 32	112+02.98	112+16.81	RTE 231/BROADWAY	RTE 231	LT	13.90	6.00	-	-	-	-	-	9.30	10	TRANSITION SIDEWALK TO DRIVEWAY
486	20 OF 32	112+16.81	112+42.97	RTE 231/BROADWAY	RTE 231	LT	26.20	6.00	-	-	-	-	-	17.50	18	-
486	20 OF 32	112+42.97	112+58.86	RTE 231/BROADWAY	RTE 231	LT	15.90	6.00	-	-	-	-	-	10.60	11	TRANSITION SIDEWALK TO DRIVEWAY
486	20 OF 32	112+60.21	112+75.40	RTE 231/BROADWAY	RTE 231	RT	15.20	6.00	-	-	-	-	-	10.20	11	TRANSITION SIDEWALK TO DRIVEWAY
486	20 OF 32	112+75.40	113+75.16	RTE 231/BROADWAY	RTE 231	RT	99.80	6.00	-	-	-	-	-	66.60	67	-
486	20 OF 32	113+21.66	113+31.34	RTE 231/BROADWAY	RTE 231	LT	9.70	6.00	-	-	-	-	-	6.50	7	TRANSITION SIDEWALK TO DRIVEWAY
486	20 OF 32	113+31.34	113+42.72	RTE 231/BROADWAY	RTE 231	LT	11.40	6.00	-	-	-	-	-	7.60	8	-
486	20 OF 32	113+42.72	113+48.76	RTE 231/BROADWAY	RTE 231	LT	6.10	6.00	SMALL RADIUS PERPENDICULAR	3.30	7	10	1	-	5	AT VIEHL AVE
486	20 OF 32	113+73.03	113+78.29	RTE 231/BROADWAY	RTE 231	LT	5.30	6.00	SMALL RADIUS PERPENDICULAR	3.10	6	10	1	-	4	AT VIEHL AVE
486	20 OF 32	113+75.16	113+91.50	RTE 231/BROADWAY	RTE 231	RT	16.40	6.00	-	-	-	-	-	11.00	11	TRANSITION SIDEWALK TO DRIVEWAY
486	20 OF 32	113+78.29	114+06.78	RTE 231/BROADWAY	RTE 231	LT	28.50	6.00	-	-	-	-	-	19.00	19	-
486	20 OF 32	114+06.78	114+13.32	RTE 231/BROADWAY	RTE 231	LT	6.60	6.00	-	-	-	-	-	4.40	5	TRANSITION SIDEWALK TO DRIVEWAY
									TABLE 11 SUBTOTALS		147	146	10	759.60	875	-

SUMMARY OF QUANTITIES
SHEET 63 OF 106

LAYOUT	NS	01/2025
DRAWN	SMC	01/2025
REVIEWED	DJK	01/2025

STATE OF MISSOURI
DENNIS J KOSCIELSKI
NUMBER PE-2005000712
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED 7/25/2025

ROUTE	STATE
231	MO
DISTRICT	SHEET NO.
SL	3

COUNTY ST. LOUIS
JOB NO. J6S3631
CONTRACT ID.
PROJECT NO.
BRIDGE NO.

DESCRIPTION	DATE

IF A SEAL IS PRESENT ON THIS SHEET, IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

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SIDEWALK AND ADA RAMPS (CONT.)

SHEET NO.	SPECIAL CURB DESIGN SHEET NO.	FROM STATION	TO STATION	ROADWAY	CENTERLINE	LOCATION	LENGTH (FT)	SIDEWALK WIDTH (FT)	SUGGESTED ADA RAMP TYPE	APPROX. ADA RAMP AREA (SQ YD)	ESTIMATED TYPE A CURB FOR ADA RAMP (LF)	TRUNCATED DOMES (SQ FT)	MISC. {CONCRETE CURB RAMP} (EA)	CONCRETE SIDEWALK, 4 IN. (SQ YD)	TYPE 5 AGGREGATE FOR BASE (4 IN. THICK) (SQ YD)	REMARKS
486	20 OF 32	114+24.76	114+33.11	RTE 231/BROADWAY	RTE 231	LT	8.40	6.00	-	-	-	-	-	5.60	6	TRANSITION SIDEWALK TO DRIVEWAY
486	20 OF 32	114+33.11	114+50.05	RTE 231/BROADWAY	RTE 231	LT	17.00	6.00	-	-	-	-	-	11.40	12	-
486	20 OF 32	114+37.83	114+45.83	RTE 231/BROADWAY	RTE 231	RT	8.00	6.00	-	-	-	-	-	5.40	6	TRANSITION SIDEWALK TO DRIVEWAY
487	21 OF 32	114+45.83	114+49.30	RTE 231/BROADWAY	RTE 231	RT	3.50	6.00	-	-	-	-	-	2.40	3	-
487	21 OF 32	114+49.30	114+57.30	RTE 231/BROADWAY	RTE 231	RT	8.00	6.00	-	-	-	-	-	5.40	6	TRANSITION SIDEWALK TO DRIVEWAY
487	21 OF 32	114+50.05	114+55.89	RTE 231/BROADWAY	RTE 231	LT	5.90	6.00	-	-	-	-	-	4.00	4	TRANSITION SIDEWALK TO DRIVEWAY
487	21 OF 32	114+75.44	114+89.25	RTE 231/BROADWAY	RTE 231	LT	13.90	6.00	-	-	-	-	-	9.30	10	TRANSITION SIDEWALK TO DRIVEWAY
487	21 OF 32	114+89.25	115+26.94	RTE 231/BROADWAY	RTE 231	LT	37.70	6.00	-	-	-	-	-	25.20	26	-
487	21 OF 32	115+05.13	115+16.23	RTE 231/BROADWAY	RTE 231	RT	11.20	6.00	-	-	-	-	-	7.50	8	TRANSITION SIDEWALK TO DRIVEWAY
487	21 OF 32	115+16.23	115+23.09	RTE 231/BROADWAY	RTE 231	RT	6.90	6.00	-	-	-	-	-	4.60	5	-
487	21 OF 32	115+23.09	115+34.41	RTE 231/BROADWAY	RTE 231	RT	11.40	6.00	-	-	-	-	-	7.60	8	TRANSITION SIDEWALK TO DRIVEWAY
487	21 OF 32	115+26.94	115+40.67	RTE 231/BROADWAY	RTE 231	LT	13.80	6.00	-	-	-	-	-	9.20	10	TRANSITION SIDEWALK TO DRIVEWAY
487	21 OF 32	115+55.30	115+69.10	RTE 231/BROADWAY	RTE 231	LT	13.90	6.00	-	-	-	-	-	9.30	10	TRANSITION SIDEWALK TO DRIVEWAY
487	21 OF 32	115+67.40	115+81.20	RTE 231/BROADWAY	RTE 231	RT	13.90	6.00	-	-	-	-	-	9.30	10	TRANSITION SIDEWALK TO DRIVEWAY
487	21 OF 32	115+69.10	116+39.79	RTE 231/BROADWAY	RTE 231	LT	70.70	6.00	-	-	-	-	-	47.20	48	-
487	21 OF 32	115+81.20	115+99.76	RTE 231/BROADWAY	RTE 231	RT	18.60	6.00	-	-	-	-	-	12.40	13	-
487	21 OF 32	115+99.76	116+21.51	RTE 231/BROADWAY	RTE 231	RT	21.80	6.00	LARGE RADIUS PERPENDICULAR	12.20	22	25	1	-	15	AT E ARLEE AVE
487	21 OF 32	116+39.79	116+47.29	RTE 231/BROADWAY	RTE 231	LT	7.50	6.00	LARGE RADIUS PERPENDICULAR	13.00	8	21	1	-	5	AT W ARLEE AVE
487	21 OF 32	116+45.09	116+64.59	RTE 231/BROADWAY	RTE 231	RT	19.50	6.00	LARGE RADIUS PERPENDICULAR	13.70	20	14	1	-	13	AT E ARLEE AVE
487	21 OF 32	116+45.14	116+50.14	RTE 231/BROADWAY	RTE 231	RT	5.00	6.00	-	-	-	-	-	3.40	4	-
487	21 OF 32	116+64.59	117+32.72	RTE 231/BROADWAY	RTE 231	RT	68.20	6.00	-	-	-	-	-	45.50	46	-
487	21 OF 32	116+74.01	116+99.64	RTE 231/BROADWAY	RTE 231	LT	25.70	6.00	SMALL RADIUS PERPENDICULAR	20.90	26	11	1	-	18	AT W ARLEE AVE
487	21 OF 32	116+99.63	117+08.63	RTE 231/BROADWAY	RTE 231	CENTER	9.00	7.50	ISLAND CUT THROUGH	7.10	9	18	1	-	8	CONCRETE MEDIAN ISLAND
487	21 OF 32	116+99.63	117+08.63	RTE 231/BROADWAY	RTE 231	CENTER	9.00	7.00	ISLAND CUT THROUGH	7.10	9	18	1	-	7	CONCRETE MEDIAN ISLAND
487	21 OF 32	116+99.64	117+08.64	RTE 231/BROADWAY	RTE 231	LT	9.00	6.00	-	-	-	-	-	6.00	6	TRANSITION SIDEWALK TO DRIVEWAY
487	21 OF 32	117+08.71	117+34.56	RTE 231/BROADWAY	RTE 231	LT	25.90	6.00	-	-	-	-	-	17.30	18	-
487	21 OF 32	117+32.72	117+40.23	RTE 231/BROADWAY	RTE 231	RT	7.60	6.00	-	-	-	-	-	5.10	6	TRANSITION SIDEWALK TO DRIVEWAY
487	21 OF 32	117+34.56	117+48.50	RTE 231/BROADWAY	RTE 231	LT	14.00	6.00	-	-	-	-	-	9.40	10	TRANSITION SIDEWALK TO DRIVEWAY
487	21 OF 32	117+57.50	117+71.44	RTE 231/BROADWAY	RTE 231	LT	14.00	6.00	-	-	-	-	-	9.40	10	TRANSITION SIDEWALK TO DRIVEWAY
487	21 OF 32	117+70.23	117+88.09	RTE 231/BROADWAY	RTE 231	RT	17.90	6.00	-	-	-	-	-	12.00	12	-
487	21 OF 32	117+71.44	119+34.25	RTE 231/BROADWAY	RTE 231	LT	162.90	6.00	-	-	-	-	-	108.60	109	-
487	21 OF 32	118+16.38	118+43.74	RTE 231/BROADWAY	RTE 231	RT	27.40	6.00	-	-	-	-	-	18.30	19	TRANSITION SIDEWALK TO DRIVEWAY
487	21 OF 32	118+43.74	118+84.83	RTE 231/BROADWAY	RTE 231	RT	41.10	6.00	-	-	-	-	-	27.40	28	-
487	21 OF 32	118+84.54	118+89.88	RTE 231/BROADWAY	RTE 231	RT	5.40	6.00	-	-	-	-	-	3.60	4	-
487	21 OF 32	118+84.76	118+96.25	RTE 231/BROADWAY	RTE 231	RT	11.50	6.00	TYPE 1 PARALLEL	8.50	12	10	1	-	8	AT E FELTON AVE
487	21 OF 32	119+29.85	119+37.40	RTE 231/BROADWAY	RTE 231	RT	7.60	6.00	SMALL RADIUS PERPENDICULAR	5.90	8	14	1	-	6	AT E FELTON AVE
487	21 OF 32	119+34.25	119+41.73	RTE 231/BROADWAY	RTE 231	LT	7.50	6.00	SMALL RADIUS PERPENDICULAR	3.80	8	10	1	-	5	AT W FELTON AVE
487	21 OF 32	119+37.40	119+52.78	RTE 231/BROADWAY	RTE 231	RT	15.40	6.00	-	-	-	-	-	10.30	11	-
487	21 OF 32	119+52.78	119+59.34	RTE 231/BROADWAY	RTE 231	RT	6.60	6.00	-	-	-	-	-	4.40	5	TRANSITION SIDEWALK TO DRIVEWAY
487	21 OF 32	119+70.03	119+91.78	RTE 231/BROADWAY	RTE 231	LT	21.80	6.00	LARGE RADIUS PERPENDICULAR	12.20	22	25	1	-	15	AT W FELTON AVE
488	22 OF 32	119+91.78	121+79.43	RTE 231/BROADWAY	RTE 231	LT	187.70	6.00	-	-	-	-	-	125.20	126	-
488	22 OF 32	119+92.88	120+07.45	RTE 231/BROADWAY	RTE 231	RT	14.60	6.00	-	-	-	-	-	9.80	10	TRANSITION SIDEWALK TO DRIVEWAY
488	22 OF 32	120+07.45	120+51.88	RTE 231/BROADWAY	RTE 231	RT	44.50	6.00	-	-	-	-	-	29.70	30	-
488	22 OF 32	120+51.88	120+66.41	RTE 231/BROADWAY	RTE 231	RT	14.60	6.00	-	-	-	-	-	9.80	10	TRANSITION SIDEWALK TO DRIVEWAY
488	22 OF 32	120+78.26	120+97.45	RTE 231/BROADWAY	RTE 231	RT	19.20	6.00	-	-	-	-	-	12.80	13	-
									TABLE 12 SUBTOTALS		144	166	10	643.80	762	-

LAYOUT	NS	01/2025
DRAWN	SMC	01/2025
REVIEWED	DJK	01/2025

SUMMARY OF QUANTITIES
SHEET 64 OF 106

STATE OF MISSOURI
DENNIS J KOSCIELSKI
NUMBER PE-2005000712
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED 7/25/2025

ROUTE	STATE
231	MO
DISTRICT	SHEET NO.
SL	3

COUNTY ST. LOUIS
JOB NO. J6S3631
CONTRACT ID.
PROJECT NO.
BRIDGE NO.

DESCRIPTION	DATE

IF A SEAL IS PRESENT ON THIS SHEET, IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

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SIDEWALK AND ADA RAMPS (CONT.)

SHEET NO.	SPECIAL CURB DESIGN SHEET NO.	FROM STATION	TO STATION	ROADWAY	CENTERLINE	LOCATION	LENGTH (FT)	SIDEWALK WIDTH (FT)	SUGGESTED ADA RAMP TYPE	APPROX. ADA RAMP AREA (SQ YD)	ESTIMATED TYPE A CURB FOR ADA RAMP (LF)	TRUNCATED DOMES (SQ FT)	MISC. {CONCRETE CURB RAMP} (EA)	CONCRETE SIDEWALK, 4 IN. (SQ YD)	TYPE 5 AGGREGATE FOR BASE (4 IN. THICK) (SQ YD)	REMARKS
488	22 OF 32	121+08.64	121+32.33	RTE 231/BROADWAY	RTE 231	RT	23.70	6.00	-	-	-	-	-	15.80	16	-
488	22 OF 32	121+44.48	121+71.59	RTE 231/BROADWAY	RTE 231	RT	27.20	6.00	-	-	-	-	-	18.20	19	-
488	22 OF 32	121+71.59	121+83.34	RTE 231/BROADWAY	RTE 231	RT	11.80	6.00	LARGE RADIUS PERPENDICULAR	5.50	12	25	1	-	8	AT E LORETTA AVE
488	22 OF 32	121+79.43	121+93.97	RTE 231/BROADWAY	RTE 231	LT	14.60	6.00	-	-	-	-	-	9.80	10	TRANSITION SIDEWALK TO DRIVEWAY
488	22 OF 32	122+04.34	122+37.84	RTE 231/BROADWAY	RTE 231	LT	33.50	6.00	-	-	-	-	-	22.40	23	-
488	22 OF 32	122+11.76	122+31.13	RTE 231/BROADWAY	RTE 231	RT	19.40	6.00	LARGE RADIUS PERPENDICULAR	9.80	20	25	1	-	13	AT E LORETTA AVE
488	22 OF 32	122+30.80	122+37.84	RTE 231/BROADWAY	RTE 231	LT	7.10	6.00	TYPE 3 PARALLEL	6.50	8	10	1	-	5	AT W LORETTA AVE
488	22 OF 32	122+63.13	122+67.98	RTE 231/BROADWAY	RTE 231	RT	4.90	6.00	-	-	-	-	-	3.30	4	TRANSITION SIDEWALK TO DRIVEWAY
488	22 OF 32	122+64.23	122+69.92	RTE 231/BROADWAY	RTE 231	LT	5.70	6.00	TYPE 3 PARALLEL	10.10	6	10	1	-	4	AT W LORETTA AVE
488	22 OF 32	122+64.23	122+80.41	RTE 231/BROADWAY	RTE 231	LT	16.20	6.00	-	-	-	-	-	10.80	11	TRANSITION SIDEWALK TO DRIVEWAY
488	22 OF 32	122+78.55	122+93.11	RTE 231/BROADWAY	RTE 231	RT	14.60	6.00	-	-	-	-	-	9.80	10	TRANSITION SIDEWALK TO DRIVEWAY
488	22 OF 32	122+80.41	124+44.99	RTE 231/BROADWAY	RTE 231	LT	164.60	6.00	-	-	-	-	-	109.80	110	-
488	22 OF 32	122+93.11	124+48.54	RTE 231/BROADWAY	RTE 231	RT	155.50	6.00	-	-	-	-	-	103.70	104	-
488	22 OF 32	124+44.99	124+57.96	RTE 231/BROADWAY	RTE 231	LT	13.00	6.00	-	-	-	-	-	8.70	9	TRANSITION SIDEWALK TO DRIVEWAY
488	22 OF 32	124+48.54	124+65.74	RTE 231/BROADWAY	RTE 231	RT	17.20	6.00	TYPE 1 PARALLEL	15.60	18	10	1	-	12	AT E HOLDEN AVE
488	22 OF 32	124+59.91	124+63.06	RTE 231/BROADWAY	RTE 231	RT	3.20	6.00	-	-	-	-	-	2.20	3	-
488	22 OF 32	124+88.11	125+01.08	RTE 231/BROADWAY	RTE 231	LT	13.00	6.00	-	-	-	-	-	8.70	9	TRANSITION SIDEWALK TO DRIVEWAY
488	22 OF 32	124+92.02	124+98.27	RTE 231/BROADWAY	RTE 231	RT	6.30	6.00	TYPE 3 PARALLEL	3.50	7	11	1	-	5	AT E HOLDEN AVE
488	22 OF 32	124+92.02	125+29.52	RTE 231/BROADWAY	RTE 231	RT	37.50	6.00	-	-	-	-	-	25.00	25	-
488	22 OF 32	124+94.30	124+97.36	RTE 231/BROADWAY	RTE 231	RT	3.10	6.00	-	-	-	-	-	2.10	3	-
489	23 OF 32	125+01.08	125+23.94	RTE 231/BROADWAY	RTE 231	LT	22.90	6.00	-	-	-	-	-	15.30	16	-
489	23 OF 32	125+23.94	125+31.48	RTE 231/BROADWAY	RTE 231	LT	7.60	6.00	TYPE 1 PARALLEL	8.10	8	10	1	-	6	AT W HOLDEN AVE
489	23 OF 32	125+54.35	125+75.77	RTE 231/BROADWAY	RTE 231	RT	21.50	6.00	-	-	-	-	-	14.40	15	TRANSITION SIDEWALK TO DRIVEWAY
489	23 OF 32	125+59.07	125+75.77	RTE 231/BROADWAY	RTE 231	LT	16.80	6.00	TYPE 1 PARALLEL	14.50	17	10	1	-	12	AT W HOLDEN AVE
489	23 OF 32	125+75.77	125+84.77	RTE 231/BROADWAY	RTE 231	LT	9.00	6.00	-	-	-	-	-	6.00	6	TRANSITION SIDEWALK TO DRIVEWAY
489	23 OF 32	125+75.77	125+84.77	RTE 231/BROADWAY	RTE 231	CENTER	9.00	7.50	ISLAND CUT THROUGH	7.20	9	18	1	-	8	CONCRETE MEDIAN ISLAND
489	23 OF 32	125+75.77	125+84.77	RTE 231/BROADWAY	RTE 231	CENTER	9.00	7.50	ISLAND CUT THROUGH	7.10	9	18	1	-	8	CONCRETE MEDIAN ISLAND
489	23 OF 32	125+75.77	125+99.45	RTE 231/BROADWAY	RTE 231	RT	23.70	6.00	-	-	-	-	-	15.80	16	-
489	23 OF 32	125+84.77	126+02.77	RTE 231/BROADWAY	RTE 231	LT	18.00	6.00	-	-	-	-	-	12.00	12	TRANSITION SIDEWALK TO DRIVEWAY
489	23 OF 32	125+99.45	126+14.32	RTE 231/BROADWAY	RTE 231	RT	14.90	6.00	-	-	-	-	-	10.00	10	TRANSITION SIDEWALK TO DRIVEWAY
489	23 OF 32	126+28.52	126+41.49	RTE 231/BROADWAY	RTE 231	LT	13.00	6.00	-	-	-	-	-	8.70	9	TRANSITION SIDEWALK TO DRIVEWAY
489	23 OF 32	126+34.94	126+49.80	RTE 231/BROADWAY	RTE 231	RT	14.90	6.00	-	-	-	-	-	10.00	10	TRANSITION SIDEWALK TO DRIVEWAY
489	23 OF 32	126+41.49	128+12.11	RTE 231/BROADWAY	RTE 231	LT	170.70	6.00	-	-	-	-	-	113.80	114	-
489	23 OF 32	126+49.80	127+24.16	RTE 231/BROADWAY	RTE 231	RT	74.40	6.00	-	-	-	-	-	49.60	50	-
489	23 OF 32	127+24.16	127+42.99	RTE 231/BROADWAY	RTE 231	RT	18.90	6.00	LARGE RADIUS PERPENDICULAR	11.00	19	20	1	-	13	AT E VELMA AVE
489	23 OF 32	127+66.45	127+85.28	RTE 231/BROADWAY	RTE 231	RT	18.90	6.00	LARGE RADIUS PERPENDICULAR	11.00	19	20	1	-	13	AT E VELMA AVE
489	23 OF 32	127+85.28	128+87.44	RTE 231/BROADWAY	RTE 231	RT	102.20	6.00	-	-	-	-	-	68.20	69	-
489	23 OF 32	128+12.11	128+30.89	RTE 231/BROADWAY	RTE 231	LT	18.80	6.00	LARGE RADIUS PERPENDICULAR	11.00	19	20	1	-	13	AT W VELMA AVE
489	23 OF 32	128+55.08	128+62.57	RTE 231/BROADWAY	RTE 231	LT	7.50	6.00	SMALL RADIUS PERPENDICULAR	3.80	8	10	1	-	5	AT W VELMA AVE
489	23 OF 32	128+62.57	128+81.55	RTE 231/BROADWAY	RTE 231	LT	19.00	6.00	-	-	-	-	-	12.70	13	-
489	23 OF 32	128+81.55	128+94.52	RTE 231/BROADWAY	RTE 231	LT	13.00	6.00	-	-	-	-	-	8.70	9	TRANSITION SIDEWALK TO DRIVEWAY
489	23 OF 32	128+87.44	129+06.09	RTE 231/BROADWAY	RTE 231	RT	18.70	6.00	-	-	-	-	-	12.50	13	TRANSITION SIDEWALK TO DRIVEWAY
489	23 OF 32	129+34.75	129+39.70	RTE 231/BROADWAY	RTE 231	LT	5.00	6.00	-	-	-	-	-	3.40	4	TRANSITION SIDEWALK TO DRIVEWAY
489	23 OF 32	129+39.70	129+57.09	RTE 231/BROADWAY	RTE 231	LT	17.40	6.00	-	-	-	-	-	11.60	12	-
489	23 OF 32	129+57.09	129+62.09	RTE 231/BROADWAY	RTE 231	LT	5.00	6.00	-	-	-	-	-	3.40	4	TRANSITION SIDEWALK TO DRIVEWAY
									TABLE 13 SUBTOTALS		179	217	14	726.40	863	-

SUMMARY OF QUANTITIES
SHEET 65 OF 106

LAYOUT	NS	01/2025
DRAWN	SMC	01/2025
REVIEWED	DJK	01/2025

STATE OF MISSOURI
DENNIS J KOSCIELSKI
NUMBER PE-2005000712
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED 7/25/2025

ROUTE	STATE
231	MO
DISTRICT	SHEET NO.
SL	3

COUNTY ST. LOUIS
JOB NO. J6S3631
CONTRACT ID.
PROJECT NO.
BRIDGE NO.

IF A SEAL IS PRESENT ON THIS SHEET, IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

DESCRIPTION	DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

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SIDEWALK AND ADA RAMPS (CONT.)

SHEET NO.	SPECIAL CURB DESIGN SHEET NO.	FROM STATION	TO STATION	ROADWAY	CENTERLINE	LOCATION	LENGTH (FT)	SIDEWALK WIDTH (FT)	SUGGESTED ADA RAMP TYPE	APPROX. ADA RAMP AREA (SQ YD)	ESTIMATED TYPE A CURB FOR ADA RAMP (LF)	TRUNCATED DOMES (SQ FT)	MISC. {CONCRETE CURB RAMP} (EA)	CONCRETE SIDEWALK, 4 IN. (SQ YD)	TYPE 5 AGGREGATE FOR BASE (4 IN. THICK) (SQ YD)	REMARKS
489	23 OF 32	129+87.29	130+00.25	RTE 231/BROADWAY	RTE 231	LT	13.00	6.00	-	-	-	-	-	8.70	9	TRANSITION SIDEWALK TO DRIVEWAY
490	24 OF 32	129+99.78	130+17.00	RTE 231/BROADWAY	RTE 231	RT	17.30	6.00	-	-	-	-	-	11.60	12	TRANSITION SIDEWALK TO DRIVEWAY
490	24 OF 32	130+00.25	130+22.22	RTE 231/BROADWAY	RTE 231	LT	22.00	6.00	-	-	-	-	-	14.70	15	-
490	24 OF 32	130+17.00	130+27.00	RTE 231/BROADWAY	RTE 231	RT	10.00	6.00	-	-	-	-	-	6.70	7	-
490	24 OF 32	130+22.22	130+34.34	RTE 231/BROADWAY	RTE 231	LT	12.20	6.00	-	-	-	-	-	8.20	9	TRANSITION SIDEWALK TO DRIVEWAY
490	24 OF 32	130+27.00	130+38.75	RTE 231/BROADWAY	RTE 231	RT	11.80	6.00	LARGE RADIUS PERPENDICULAR	5.50	12	25	1	-	8	AT E ETTA AVE
490	24 OF 32	130+67.60	130+77.41	RTE 231/BROADWAY	RTE 231	RT	9.90	6.00	-	-	-	-	-	6.60	7	-
490	24 OF 32	130+68.57	130+77.41	RTE 231/BROADWAY	RTE 231	RT	8.90	6.00	SMALL RADIUS PERPENDICULAR	4.30	9	20	1	-	6	AT E ETTA AVE
490	24 OF 32	130+70.38	130+80.36	RTE 231/BROADWAY	RTE 231	LT	10.00	6.00	-	-	-	-	-	6.70	7	TRANSITION SIDEWALK TO DRIVEWAY
490	24 OF 32	130+77.41	130+97.36	RTE 231/BROADWAY	RTE 231	RT	20.00	6.00	TYPE 3 PARALLEL	13.30	20	19	1	-	14	-
490	24 OF 32	130+80.36	130+89.36	RTE 231/BROADWAY	RTE 231	LT	9.00	6.00	-	-	-	-	-	6.00	6	TRANSITION SIDEWALK TO DRIVEWAY
490	24 OF 32	130+80.36	130+89.36	RTE 231/BROADWAY	RTE 231	CENTER	9.00	7.00	ISLAND CUT THROUGH	7.00	9	18	1	-	7	CONCRETE MEDIAN ISLAND
490	24 OF 32	130+89.36	131+11.01	RTE 231/BROADWAY	RTE 231	LT	21.70	6.00	-	-	-	-	-	14.50	15	-
490	24 OF 32	130+97.36	131+24.59	RTE 231/BROADWAY	RTE 231	RT	27.30	6.00	-	-	-	-	-	18.20	19	-
490	24 OF 32	131+11.01	131+21.14	RTE 231/BROADWAY	RTE 231	LT	10.20	6.00	LARGE RADIUS PERPENDICULAR	11.50	11	22	1	-	7	AT W ETTA AVE
490	24 OF 32	131+24.59	131+38.54	RTE 231/BROADWAY	RTE 231	RT	14.00	6.00	-	-	-	-	-	9.40	10	TRANSITION SIDEWALK TO DRIVEWAY
490	24 OF 32	131+49.34	131+63.25	RTE 231/BROADWAY	RTE 231	RT	14.00	6.00	-	-	-	-	-	9.40	10	TRANSITION SIDEWALK TO DRIVEWAY
490	24 OF 32	131+49.43	131+62.95	RTE 231/BROADWAY	RTE 231	LT	13.60	6.00	SMALL RADIUS PERPENDICULAR	6.30	14	10	1	-	10	AT W ETTA AVE
490	24 OF 32	131+62.95	133+94.42	RTE 231/BROADWAY	RTE 231	LT	231.50	6.00	-	-	-	-	-	154.40	155	-
490	24 OF 32	131+63.25	131+99.27	RTE 231/BROADWAY	RTE 231	RT	36.10	6.00	-	-	-	-	-	24.10	25	-
490	24 OF 32	131+99.27	132+13.92	RTE 231/BROADWAY	RTE 231	RT	14.70	6.00	-	-	-	-	-	9.80	10	TRANSITION SIDEWALK TO DRIVEWAY
490	24 OF 32	132+26.16	132+40.86	RTE 231/BROADWAY	RTE 231	RT	14.80	6.00	-	-	-	-	-	9.90	10	TRANSITION SIDEWALK TO DRIVEWAY
490	24 OF 32	132+40.86	132+91.04	RTE 231/BROADWAY	RTE 231	RT	50.20	6.00	-	-	-	-	-	33.50	34	-
490	24 OF 32	132+91.04	133+12.78	RTE 231/BROADWAY	RTE 231	RT	21.80	6.00	LARGE RADIUS PERPENDICULAR	12.20	22	25	1	-	15	AT E CARTWRIGHT AVE
490	24 OF 32	133+44.29	133+54.69	RTE 231/BROADWAY	RTE 231	RT	10.40	6.00	LARGE RADIUS PERPENDICULAR	5.00	11	22	1	-	7	AT E CARTWRIGHT AVE
490	24 OF 32	133+54.69	133+78.73	RTE 231/BROADWAY	RTE 231	RT	24.10	6.00	-	-	-	-	-	16.10	17	-
490	24 OF 32	133+89.25	134+12.64	RTE 231/BROADWAY	RTE 231	RT	23.40	6.00	-	-	-	-	-	15.60	16	-
490	24 OF 32	133+94.42	134+16.58	RTE 231/BROADWAY	RTE 231	LT	22.20	6.00	LARGE RADIUS PERPENDICULAR	12.40	23	25	1	-	15	AT W CARTWRIGHT AVE
490	24 OF 32	134+19.93	134+34.63	RTE 231/BROADWAY	RTE 231	RT	14.70	6.00	-	-	-	-	-	9.80	10	TRANSITION SIDEWALK TO DRIVEWAY
490	24 OF 32	134+34.63	135+27.49	RTE 231/BROADWAY	RTE 231	RT	92.90	6.00	-	-	-	-	-	62.00	62	-
490	24 OF 32	134+47.30	134+69.04	RTE 231/BROADWAY	RTE 231	LT	21.80	6.00	LARGE RADIUS PERPENDICULAR	12.20	22	25	1	-	15	AT W CARTWRIGHT AVE
491	25 OF 32	134+69.04	136+90.83	RTE 231/BROADWAY	RTE 231	LT	221.80	6.00	-	-	-	-	-	147.90	148	-
491	25 OF 32	135+27.49	135+58.60	RTE 231/BROADWAY	RTE 231	RT	31.20	6.00	TYPE 1 PARALLEL	21.70	32	10	1	-	21	AT MANN ST
491	25 OF 32	135+48.74	135+54.20	RTE 231/BROADWAY	RTE 231	RT	5.50	6.00	-	-	-	-	-	3.70	4	-
491	25 OF 32	135+93.72	136+05.86	RTE 231/BROADWAY	RTE 231	RT	12.20	6.00	SMALL RADIUS PERPENDICULAR	6.10	13	11	1	-	9	AT MANN ST
491	25 OF 32	135+96.45	140+19.79	RTE 231/BROADWAY	RTE 231	RT	423.40	6.00	-	-	-	-	-	282.30	283	-
491	25 OF 32	135+99.51	136+09.36	RTE 231/BROADWAY	RTE 231	RT	9.90	6.00	-	-	-	-	-	6.60	7	-
491	25 OF 32	136+90.83	137+08.18	RTE 231/BROADWAY	RTE 231	LT	17.40	6.00	LARGE RADIUS PERPENDICULAR	10.40	18	18	1	-	12	AT VINCENT AVE
491	25 OF 32	137+22.44	137+47.41	RTE 231/BROADWAY	RTE 231	LT	25.00	6.00	-	-	-	-	-	16.70	17	-
491	25 OF 32	137+40.85	137+60.95	RTE 231/BROADWAY	RTE 231	LT	20.20	6.00	LARGE RADIUS PERPENDICULAR	11.50	21	22	1	-	14	AT VINCENT AVE
491	25 OF 32	137+60.95	139+87.34	RTE 231/BROADWAY	RTE 231	LT	226.40	6.00	-	-	-	-	-	151.00	151	-
492	26 OF 32	139+87.34	139+99.57	RTE 231/BROADWAY	RTE 231	LT	12.30	6.00	-	-	-	-	-	8.20	9	TRANSITION SIDEWALK TO DRIVEWAY
492	26 OF 32	140+12.82	140+19.79	RTE 231/BROADWAY	RTE 231	RT	7.00	6.00	TYPE 1 PARALLEL	21.20	7	10	1	-	5	AT E GOETZ AVE
492	26 OF 32	140+12.82	140+18.90	RTE 231/BROADWAY	RTE 231	RT	6.10	33.00	-	-	-	-	-	22.40	23	-
492	26 OF 32	140+25.64	140+38.61	RTE 231/BROADWAY	RTE 231	LT	13.00	6.00	-	-	-	-	-	8.70	9	TRANSITION SIDEWALK TO DRIVEWAY
									TABLE 14 SUBTOTALS		244	282	15	1,103.40	1,281	-

SUMMARY OF QUANTITIES
SHEET 66 OF 106

LAYOUT	NS	01/2025
DRAWN	SMC	01/2025
REVIEWED	DJK	01/2025

STATE OF MISSOURI
DENNIS J KOSCIELSKI
NUMBER PE-2005000712
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED
7/25/2025

ROUTE	STATE
231	MO
DISTRICT	SHEET NO.
SL	3

COUNTY
ST. LOUIS

JOB NO.
J6S3631

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION	DATE

IF A SEAL IS PRESENT ON THIS SHEET, IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

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HANSON
Hanson Professional Services Inc.
600 Washington Ave., Suite 950
St. Louis, Missouri 63101
Professional Engineer 001632
www.hanson-inc.com
314.770.0467

SIDEWALK AND ADA RAMPS (CONT.)

SHEET NO.	SPECIAL CURB DESIGN SHEET NO.	FROM STATION	TO STATION	ROADWAY	CENTERLINE	LOCATION	LENGTH (FT)	SIDEWALK WIDTH (FT)	SUGGESTED ADA RAMP TYPE	APPROX. ADA RAMP AREA (SQ YD)	ESTIMATED TYPE A CURB FOR ADA RAMP (LF)	TRUNCATED DOMES (SQ FT)	MISC. {CONCRETE CURB RAMP} (EA)	CONCRETE SIDEWALK, 4 IN. (SQ YD)	TYPE 5 AGGREGATE FOR BASE (4 IN. THICK) (SQ YD)	REMARKS
492	26 OF 32	140+38.61	141+54.75	RTE 231/BROADWAY	RTE 231	LT	116.20	6.00	-	-	-	-	-	77.50	78	-
492	26 OF 32	140+46.36	140+53.03	RTE 231/BROADWAY	RTE 231	RT	6.70	6.00	TYPE 1 PARALLEL	15.50	7	10	1	-	5	AT E GOETZ AVE
492	26 OF 32	140+47.21	140+81.47	RTE 231/BROADWAY	RTE 231	RT	34.30	6.00	-	-	-	-	-	22.90	23	-
492	26 OF 32	140+50.15	140+53.35	RTE 231/BROADWAY	RTE 231	RT	3.30	11.00	-	-	-	-	-	4.10	5	-
492	26 OF 32	140+81.47	140+95.53	RTE 231/BROADWAY	RTE 231	RT	14.10	6.00	-	-	-	-	-	9.40	10	TRANSITION SIDEWALK TO DRIVEWAY
492	26 OF 32	141+30.66	141+40.53	RTE 231/BROADWAY	RTE 231	RT	9.90	11.00	-	-	-	-	-	12.10	13	-
492	26 OF 32	141+54.75	141+60.92	RTE 231/BROADWAY	RTE 231	LT	6.20	6.00	-	-	-	-	-	4.20	5	-
492	26 OF 32	141+54.75	141+63.16	RTE 231/BROADWAY	RTE 231	LT	8.50	6.00	SMALL RADIUS PERPENDICULAR	16.80	9	10	1	-	6	AT MILITARY RD
492	26 OF 32	141+75.53	141+95.39	RTE 231/BROADWAY	RTE 231	RT	19.90	11.00	-	-	-	-	-	24.40	25	-
492	26 OF 32	141+90.29	142+01.79	RTE 231/BROADWAY	RTE 231	LT	11.50	6.00	SMALL RADIUS PERPENDICULAR	7.70	12	12	1	-	8	AT MILITARY RD
492	26 OF 32	141+90.29	141+95.29	RTE 231/BROADWAY	RTE 231	LT	5.00	6.00	-	-	-	-	-	3.40	4	-
492	26 OF 32	142+01.79	142+42.16	RTE 231/BROADWAY	RTE 231	LT	40.40	6.00	-	-	-	-	-	27.00	27	-
492	26 OF 32	142+30.25	142+44.26	RTE 231/BROADWAY	RTE 231	RT	14.10	6.00	-	-	-	-	-	9.40	10	TRANSITION SIDEWALK TO DRIVEWAY
492	26 OF 32	142+42.16	142+54.97	RTE 231/BROADWAY	RTE 231	LT	12.90	6.00	-	-	-	-	-	8.60	9	TRANSITION SIDEWALK TO DRIVEWAY
492	26 OF 32	142+44.26	142+94.69	RTE 231/BROADWAY	RTE 231	RT	50.50	11.00	-	-	-	-	-	61.80	62	-
492	26 OF 32	142+83.22	142+92.09	RTE 231/BROADWAY	RTE 231	LT	8.90	6.00	-	-	-	-	-	6.00	6	TRANSITION SIDEWALK TO DRIVEWAY
492	26 OF 32	142+92.09	142+99.59	RTE 231/BROADWAY	RTE 231	LT	7.50	6.00	DUAL PERPENDICULAR	17.70	8	13	1	-	5	AT HOFFMEISTER AVE
492	26 OF 32	142+92.09	142+99.59	RTE 231/BROADWAY	RTE 231	LT	7.50	6.00	DUAL PERPENDICULAR	17.70	8	13	1	-	5	AT HOFFMEISTER AVE
492	26 OF 32	142+92.09	143+04.42	RTE 231/BROADWAY	RTE 231	LT	12.40	6.00	-	-	-	-	-	8.30	9	-
492	26 OF 32	142+84.69	143+05.51	RTE 231/BROADWAY	RTE 231	RT	20.90	6.00	LARGE RADIUS PERPENDICULAR	20.70	21	36	1	-	14	AT HOFFMEISTER AVE
492	26 OF 32	142+86.59	143+07.38	RTE 231/BROADWAY	RTE 231	LT	20.80	6.00	DUAL PERPENDICULAR	13.70	21	25	1	-	14	AT HOFFMEISTER AVE
492	26 OF 32	142+86.59	143+07.38	RTE 231/BROADWAY	RTE 231	LT	20.80	6.00	DUAL PERPENDICULAR	13.70	21	25	1	-	14	AT HOFFMEISTER AVE
492	26 OF 32	143+49.18	143+55.18	RTE 231/BROADWAY	RTE 231	LT	6.00	6.00	TYPE 1 PARALLEL	20.90	6	10	1	-	4	AT HOFFMEISTER AVE
492	26 OF 32	143+49.18	143+72.75	RTE 231/BROADWAY	RTE 231	LT	23.60	6.00	-	-	-	-	-	15.80	16	-
492	26 OF 32	240+86.07	240+96.07	HOFFMEISTER AVE	HOFFMEISTER AVE	RT	10.00	6.00	DUAL PERPENDICULAR	8.60	10	10	1	-	7	AT HOFFMEISTER AVE
492	26 OF 32	143+57.50	143+88.22	RTE 231/BROADWAY	RTE 231	RT	30.80	6.00	DUAL PERPENDICULAR	15.00	31	10	1	-	21	AT HOFFMEISTER AVE
492	26 OF 32	143+67.79	143+92.79	RTE 231/BROADWAY	RTE 231	LT	25.00	6.00	TYPE 3 PARALLEL	17.60	25	10	1	-	17	AT HOFFMEISTER AVE
492	26 OF 32	143+87.75	146+62.71	RTE 231/BROADWAY	RTE 231	LT	275.00	6.00	-	-	-	-	-	183.40	184	-
492	26 OF 32	143+88.22	144+34.26	RTE 231/BROADWAY	RTE 231	RT	46.10	11.00	-	-	-	-	-	56.40	57	-
493	27 OF 32	146+62.71	146+78.46	RTE 231/BROADWAY	RTE 231	LT	15.80	6.00	-	-	-	-	-	10.60	11	TRANSITION SIDEWALK TO DRIVEWAY
493	27 OF 32	147+09.99	147+24.62	RTE 231/BROADWAY	RTE 231	LT	14.70	6.00	-	-	-	-	-	9.80	10	TRANSITION SIDEWALK TO DRIVEWAY
493	27 OF 32	147+24.62	147+54.40	RTE 231/BROADWAY	RTE 231	LT	29.80	6.00	-	-	-	-	-	19.90	20	-
493	27 OF 32	147+54.40	147+67.37	RTE 231/BROADWAY	RTE 231	LT	13.00	6.00	-	-	-	-	-	8.70	9	TRANSITION SIDEWALK TO DRIVEWAY
493	27 OF 32	148+32.87	148+49.22	RTE 231/BROADWAY	RTE 231	LT	16.40	6.00	-	-	-	-	-	11.00	11	TRANSITION SIDEWALK TO DRIVEWAY
493	27 OF 32	148+49.22	149+15.43	RTE 231/BROADWAY	RTE 231	LT	66.30	6.00	-	-	-	-	-	44.20	45	-
493	27 OF 32	149+15.43	149+30.97	RTE 231/BROADWAY	RTE 231	LT	15.60	6.00	-	-	-	-	-	10.40	11	TRANSITION SIDEWALK TO DRIVEWAY
493	27 OF 32	149+80.08	149+90.07	RTE 231/BROADWAY	RTE 231	LT	10.00	6.00	-	-	-	-	-	6.70	7	TRANSITION SIDEWALK TO DRIVEWAY
493	27 OF 32	149+90.07	150+66.09	RTE 231/BROADWAY	RTE 231	LT	76.10	6.00	-	-	-	-	-	50.80	51	-
494	28 OF 32	150+66.09	150+79.02	RTE 231/BROADWAY	RTE 231	LT	13.00	6.00	-	-	-	-	-	8.70	9	TRANSITION SIDEWALK TO DRIVEWAY
494	28 OF 32	151+27.63	151+37.31	RTE 231/BROADWAY	RTE 231	LT	9.70	6.00	-	-	-	-	-	6.50	7	TRANSITION SIDEWALK TO DRIVEWAY
494	28 OF 32	151+37.31	151+43.37	RTE 231/BROADWAY	RTE 231	LT	6.10	6.00	SMALL RADIUS PERPENDICULAR	3.40	7	10	1	-	5	AT WEISS AVE
494	28 OF 32	151+97.90	152+20.51	RTE 231/BROADWAY	RTE 231	LT	22.70	6.00	-	-	-	-	-	15.20	16	-
494	28 OF 32	152+09.87	152+22.19	RTE 231/BROADWAY	RTE 231	LT	12.40	6.00	TYPE 3 PARALLEL	12.20	13	10	1	-	9	AT WEISS AVE
494	28 OF 32	152+22.19	152+43.56	RTE 231/BROADWAY	RTE 231	LT	21.40	6.00	-	-	-	-	-	14.30	15	-
494	28 OF 32	153+23.38	153+36.50	RTE 231/BROADWAY	RTE 231	LT	13.20	6.00	-	-	-	-	-	8.80	9	TRANSITION SIDEWALK TO DRIVEWAY
494	28 OF 32	153+36.50	155+23.40	RTE 231/BROADWAY	RTE 231	LT	186.90	6.00	-	-	-	-	-	124.60	125	-
495	29 OF 32	155+23.40	155+32.07	RTE 231/BROADWAY	RTE 231	LT	8.70	6.00	SMALL RADIUS PERPENDICULAR	5.10	9	10	1	-	6	AT HORN AVE
495	29 OF 32	155+23.40	155+24.25	RTE 231/BROADWAY	RTE 231	LT	12.20	6.00	-	-	-	-	-	8.20	9	-
									TABLE 15 SUBTOTALS	208	214	15	893.10	1,048	-

SUMMARY OF QUANTITIES
SHEET 67 OF 106

LAYOUT	NS	01/2025
DRAWN	SMC	01/2025
REVIEWED	DJK	01/2025

STATE OF MISSOURI
DENNIS J KOSCIELSKI
NUMBER PE-2005000712
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED 7/25/2025

ROUTE	STATE
231	MO
DISTRICT	SHEET NO.
SL	3

COUNTY ST. LOUIS
JOB NO. J6S3631
CONTRACT ID.
PROJECT NO.
BRIDGE NO.

DESCRIPTION	DATE

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SIDEWALK AND ADA RAMPS (CONT.)

SHEET NO.	SPECIAL CURB DESIGN SHEET NO.	FROM STATION	TO STATION	ROADWAY	CENTERLINE	LOCATION	LENGTH (FT)	SIDEWALK WIDTH (FT)	SUGGESTED ADA RAMP TYPE	APPROX. ADA RAMP AREA (SQ YD)	ESTIMATED TYPE A CURB FOR ADA RAMP (LF)	TRUNCATED DOMES (SQ FT)	MISC. {CONCRETE CURB RAMP} (EA)	CONCRETE SIDEWALK, 4 IN. (SQ YD)	TYPE 5 AGGREGATE FOR BASE (4 IN. THICK) (SQ YD)	REMARKS
495	29 OF 32	155+61.04	155+74.62	RTE 231/BROADWAY	RTE 231	LT	13.60	6.00	-	-	-	-	-	9.10	10	-
495	29 OF 32	155+69.88	155+79.35	RTE 231/BROADWAY	RTE 231	LT	9.50	6.00	TYPE 1 PARALLEL	7.50	10	10	1	-	7	AT HORN AVE
495	29 OF 32	155+79.35	156+12.49	RTE 231/BROADWAY	RTE 231	LT	33.20	6.00	-	-	-	-	-	22.20	23	-
495	29 OF 32	156+12.49	156+29.16	RTE 231/BROADWAY	RTE 231	LT	16.70	6.00	-	-	-	-	-	11.20	12	TRANSITION SIDEWALK TO DRIVEWAY
495	29 OF 32	156+42.28	156+58.89	RTE 231/BROADWAY	RTE 231	LT	16.70	6.00	-	-	-	-	-	11.20	12	TRANSITION SIDEWALK TO DRIVEWAY
495	29 OF 32	156+58.89	157+67.55	RTE 231/BROADWAY	RTE 231	LT	108.70	6.00	-	-	-	-	-	72.50	73	-
495	29 OF 32	157+67.55	157+87.35	RTE 231/BROADWAY	RTE 231	LT	19.90	6.00	-	-	-	-	-	13.30	14	TRANSITION SIDEWALK TO DRIVEWAY
495	29 OF 32	158+25.93	158+45.73	RTE 231/BROADWAY	RTE 231	LT	19.80	6.00	-	-	-	-	-	13.20	14	TRANSITION SIDEWALK TO DRIVEWAY
495	29 OF 32	158+45.73	161+14.54	RTE 231/BROADWAY	RTE 231	LT	268.90	6.00	-	-	-	-	-	179.30	180	-
496	30 OF 32	161+14.54	161+32.69	RTE 231/BROADWAY	RTE 231	LT	18.20	6.00	SMALL RADIUS PERPENDICULAR	11.10	19	21	1	-	13	AT WALLER AVE
496	30 OF 32	161+55.65	161+79.78	RTE 231/BROADWAY	RTE 231	LT	24.20	6.00	LARGE RADIUS PERPENDICULAR	12.70	25	28	1	-	17	AT WALLER AVE
496	30 OF 32	161+79.78	164+14.81	RTE 231/BROADWAY	RTE 231	LT	235.10	6.00	-	-	-	-	-	156.80	157	-
496	30 OF 32	164+14.81	164+29.20	RTE 231/BROADWAY	RTE 231	LT	14.40	6.00	-	-	-	-	-	9.60	10	TRANSITION SIDEWALK TO DRIVEWAY
496	30 OF 32	164+59.26	164+63.66	RTE 231/BROADWAY	RTE 231	LT	4.50	6.00	-	-	-	-	-	3.00	3	TRANSITION SIDEWALK TO DRIVEWAY
496	30 OF 32	164+63.66	164+80.90	RTE 231/BROADWAY	RTE 231	LT	17.30	6.00	-	-	-	-	-	11.60	12	-
496	30 OF 32	164+80.90	164+90.48	RTE 231/BROADWAY	RTE 231	LT	9.60	6.00	LARGE RADIUS PERPENDICULAR	4.80	10	21	1	-	7	AT KAYSER AVE
496	30 OF 32	165+28.67	165+37.31	RTE 231/BROADWAY	RTE 231	LT	8.70	6.00	LARGE RADIUS PERPENDICULAR	4.60	9	20	1	-	6	AT KAYSER AVE
496	30 OF 32	165+37.31	165+50.39	RTE 231/BROADWAY	RTE 231	LT	13.10	6.00	-	-	-	-	-	8.80	9	TRANSITION SIDEWALK TO DRIVEWAY
497	31 OF 32	165+74.49	166+81.87	RTE 231/BROADWAY	RTE 231	RT	107.40	11.00	-	-	-	-	-	131.30	132	-
497	31 OF 32	165+82.82	166+11.25	RTE 231/BROADWAY	RTE 231	LT	28.50	6.00	-	-	-	-	-	19.00	19	-
497	31 OF 32	166+43.88	166+57.22	RTE 231/BROADWAY	RTE 231	LT	13.40	6.00	-	-	-	-	-	9.00	9	TRANSITION SIDEWALK TO DRIVEWAY
497	31 OF 32	166+57.22	166+78.70	RTE 231/BROADWAY	RTE 231	LT	21.50	6.00	-	-	-	-	-	14.40	15	-
497	31 OF 32	166+78.70	166+85.29	RTE 231/BROADWAY	RTE 231	LT	6.60	6.00	BLENDED TRANSITION	17.20	7	39	1	-	5	AT RIVER CITY CASINO BLVD
497	31 OF 32	166+78.70	166+85.29	RTE 231/BROADWAY	RTE 231	LT	6.60	6.00	BLENDED TRANSITION	17.20	7	39	1	-	5	AT RIVER CITY CASINO BLVD
497	31 OF 32	166+81.87	166+96.66	RTE 231/BROADWAY	RTE 231	RT	14.80	6.00	BLENDED TRANSITION	16.50	15	37	1	-	10	AT RIVER CITY CASINO BLVD
497	31 OF 32	166+81.87	166+96.66	RTE 231/BROADWAY	RTE 231	RT	14.80	6.00	BLENDED TRANSITION	16.50	15	37	1	-	10	AT RIVER CITY CASINO BLVD
497	31 OF 32	166+84.87	167+04.24	RTE 231/BROADWAY	RTE 231	RT	19.40	11.00	-	-	-	-	-	23.80	24	-
497	31 OF 32	166+85.29	167+03.89	RTE 231/BROADWAY	RTE 231	LT	18.60	6.00	-	-	-	-	-	12.40	13	-
									TABLE 16 SUBTOTALS	117	252	9		731.70	821	-

TABLE 1 SUBTOTAL	231	241	11	690.80	862
TABLE 2 SUBTOTAL	33	34	2	674.90	710
TABLE 3 SUBTOTAL	45	50	2	875.90	925
TABLE 4 SUBTOTAL	255	231	10	763.00	952
TABLE 5 SUBTOTAL	201	281	12	815.50	978
TABLE 6 SUBTOTAL	40	40	4	642.00	716
TABLE 7 SUBTOTAL	174	180	11	1,036.10	1,168
TABLE 8 SUBTOTAL	248	261	12	1,686.30	1,863
TABLE 9 SUBTOTAL	68	115	5	1,107.10	1,172
TABLE 10 SUBTOTAL	38	29	2	752.80	793
TABLE 11 SUBTOTAL	147	146	10	759.60	875
TABLE 12 SUBTOTAL	144	166	10	643.80	762
TABLE 13 SUBTOTAL	179	217	14	726.40	863
TABLE 14 SUBTOTAL	244	282	15	1,103.40	1,281
TABLE 15 SUBTOTAL	208	214	15	893.10	1,048
TABLE 16 SUBTOTAL	117	252	9	731.70	821
TOTAL	2,372	2,739	144	13,902.40	15,789
PAY TOTAL	**-**	**2,739**	**144**	**13,902.40**	**SEE SHEET 34 OF 106**

LOCATION	MISC. {STRUCTURAL SIDEWALK WITH REBAR} (SY)
VARIES	29
PAY TOTAL	**29**

SUMMARY OF QUANTITIES
SHEET 68 OF 106

LAYOUT	NS	01/2025
DRAWN	SMC	01/2025
REVIEWED	DJK	01/2025

STATE OF MISSOURI
DENNIS J KOSCIELSKI
NUMBER PE-2005000712
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED 7/25/2025

ROUTE	STATE
231	MO
DISTRICT	SHEET NO.
SL	68

COUNTY ST. LOUIS
JOB NO. J6S3631
CONTRACT ID.
PROJECT NO.
BRIDGE NO.

DESCRIPTION	DATE

IF A SEAL IS PRESENT ON THIS SHEET, IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
MoDOT
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

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Professional Engineer 001632
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PAVEMENT MARKINGS

ROADWAY	4 IN. YELLOW CLASS 1 PAVEMENT MARKING PAINT (18-MIL, TYPE P BEADS)			PREFORMED THERMOPLASTIC PAVEMENT MARKING, 24 IN. YELLOW	4 IN. WHITE CLASS 1 PAVEMENT MARKING PAINT (18-MIL, TYPE P BEADS)			6 IN. WHITE CLASS 2 PAVEMENT MARKING PAINT (25-MIL, TYPE L BEADS)	PREFORMED THERMOPLASTIC PAVEMENT MARKING, 4 IN YELLOW	PREFORMED THERMOPLASTIC PAVEMENT MARKING, 4 IN WHITE	MISC. (SOLID WHITE THERMOPLASTIC PAVEMENT MARKING, BICYCLE SHARED LANE MARKING)	PREFORMED THERMOPLASTIC PAVEMENT MARKING, BICYCLE SYMBOL	PREFORMED THERMOPLASTIC PAVEMENT MARKING, STRAIGHT ARROW	PREFORMED THERMOPLASTIC PAVEMENT MARKING, LEFT/RIGHT ARROW		PREFORMED THERMOPLASTIC PAVEMENT MARKING, WORD (ONLY)	PREFORMED THERMOPLASTIC PAVEMENT MARKING, 24 IN. X 36 IN., YIELD LINE TRIANGLE	MISC. (PREFORMED THERMOPLASTIC PAVEMENT MARKING, 30 IN WHITE)	PREFORMED THERMOPLASTIC PAVEMENT MARKING, 24 IN WHITE				REMARKS
	4-INCH SOLID, YELLOW	4-INCH SOLID DOUBLE, YELLOW	4-INCH INTERMITTENT, YELLOW (10FT. LINE, 30FT. GAPS)	24-INCH SOLID, YELLOW	4-INCH SOLID, WHITE	4-INCH INTERMITTENT, WHITE (10FT. LINE, 30FT. GAPS)	4-INCH DOTTED, WHITE (2FT. LINE, 6FT. GAPS)	6-INCH SOLID, WHITE	4-INCH DOTTED, YELLOW (2FT. LINE, 6 FT. GAPS)	4-INCH DOTTED, WHITE (2FT. LINE, 6 FT. GAPS)	BIKE SHARED LANE MARKING, WHITE	BIKE SYMBOL, WHITE	STRAIGHT ARROW, WHITE	LT ARROW, WHITE	RT ARROW, WHITE	"ONLY", WHITE	36-INCH, WHITE, YIELD TRIANGLES	30-INCH SOLID, WHITE, MIDBLOCK	24-INCH SOLID, WHITE, STOP BAR	24-INCH STRIPED ISLAND BETWEEN THROUGH AND TURN LANES	24-INCH STRIPED MEDIAN ISLAND	24-INCH NO PARKING PAVEMENT MARKINGS	
	(LF)	(LF)	(LF)	(LF)	(LF)	(LF)	(LF)	(LF)	(LF)	(LF)	(EACH)	(EACH)	(EACH)	(EACH)	(EACH)	(EACH)	(EACH)	(LF)	(LF)	(LF)	(LF)	(LF)	
RTE 231	17,125	19,433	17,831	628	69,060	8,717	303	10,098	-	-	42	109	109	55	5	4	76	132	278	172	33	1,846	MEASURED IN CAD
EAST ARLEE AVE	-	-	-	-	-	-	-	66	-	-	-	-	-	-	-	-	-	-	20	-	-	-	MEASURED IN CAD
WEST ARLEE AVE	-	-	-	-	-	-	-	63	-	-	-	-	-	-	-	-	-	-	13	-	-	-	MEASURED IN CAD
ATLAS DR	-	-	-	-	-	-	-	64	-	-	-	-	-	-	-	-	-	-	14	-	-	-	MEASURED IN CAD
BETTY JEAN	-	-	-	-	-	-	-	178	-	-	-	-	-	-	-	-	-	-	11	-	-	-	MEASURED IN CAD
BRILLIANT LN	-	-	-	-	-	-	-	104	-	-	-	-	-	-	-	-	-	-	13	-	-	-	MEASURED IN CAD
SOUTH BROADWAY ST	-	90	-	-	-	-	-	40	-	-	-	-	-	-	-	-	-	-	24	-	-	-	MEASURED IN CAD
CARRINGTON LN	-	-	-	-	-	-	-	40	-	-	-	-	-	-	-	-	-	-	12	-	-	-	MEASURED IN CAD
EAST CARTWRIGHT AVE	-	-	-	-	-	-	-	123	-	-	-	-	-	-	-	-	-	-	14	-	-	-	MEASURED IN CAD
WEST CARTWRIGHT AVE	-	-	-	-	-	-	-	90	-	-	-	-	-	-	-	-	-	-	12	-	-	-	MEASURED IN CAD
CLYDE AVE	-	-	-	-	-	-	-	79	-	-	-	-	-	-	-	-	-	-	10	-	-	-	MEASURED IN CAD
EARLSFIELD LN	-	-	-	-	-	-	-	103	-	-	-	-	-	-	-	-	-	-	15	-	-	-	MEASURED IN CAD
EAST ETTA AVE	-	-	-	-	-	-	-	84	-	-	-	-	-	-	-	-	-	-	13	-	-	-	MEASURED IN CAD
WEST ETTA AVE	-	-	-	-	-	-	-	83	-	-	-	-	-	-	-	-	-	-	12	-	-	-	MEASURED IN CAD
EAST FELTON AVE	-	-	-	-	-	-	-	78	-	-	-	-	-	-	-	-	-	-	15	-	-	-	MEASURED IN CAD
WEST FELTON AVE	-	-	-	-	-	-	-	86	-	-	-	-	-	-	-	-	-	-	12	-	-	-	MEASURED IN CAD
FRANRU LN	-	-	-	-	-	-	-	128	-	-	-	-	-	-	-	-	-	-	20	-	-	-	MEASURED IN CAD
GENEVA DR	-	-	-	-	-	-	-	74	-	-	-	-	-	-	-	-	-	-	13	-	-	-	MEASURED IN CAD
EAST GOETZ AVE	-	-	-	-	-	-	-	51	-	-	-	-	-	-	-	-	-	-	12	-	-	-	MEASURED IN CAD
HOFFMEISTER	-	209	-	-	-	-	-	96	-	-	-	-	-	-	-	-	-	128	49	-	-	-	MEASURED IN CAD
EAST HOLDEN AVE	-	-	-	-	-	-	-	52	-	-	-	-	-	-	-	-	-	-	12	-	-	-	MEASURED IN CAD
WEST HOLDEN AVE	-	-	-	-	-	-	-	54	-	-	-	-	-	-	-	-	-	-	14	-	-	-	MEASURED IN CAD
HORN AVE	-	-	-	-	-	-	-	76	-	-	-	-	-	-	-	-	-	-	17	-	-	-	MEASURED IN CAD
JEFFERSONIAN	-	111	-	-	-	-	-	0	-	-	-	-	-	-	-	-	-	112	43	-	-	-	MEASURED IN CAD
KAYSER AVE	-	-	-	-	-	-	-	87	-	-	-	-	-	-	-	-	-	-	19	-	-	-	MEASURED IN CAD
LAMBETH LN	-	-	-	-	-	-	-	61	-	-	-	-	-	-	-	-	-	-	12	-	-	-	MEASURED IN CAD
EAST LORETTA AVE	-	-	-	-	-	-	-	100	-	-	-	-	-	-	-	-	-	-	12	-	-	-	MEASURED IN CAD
WEST LORETTA AVE	-	-	-	-	-	-	-	50	-	-	-	-	-	-	-	-	-	-	13	-	-	-	MEASURED IN CAD
MANN ST	-	-	-	-	-	-	-	67	-	-	-	-	-	-	-	-	-	-	15	-	-	-	MEASURED IN CAD
MILITARY RD	-	-	-	-	-	-	-	79	-	-	-	-	-	-	-	-	-	-	11	-	-	-	MEASURED IN CAD
PENTONVILLE DR	-	-	-	-	-	-	-	142	-	-	-	-	-	-	-	-	-	-	14	-	-	-	MEASURED IN CAD
RIPA AVE	-	12	-	-	-	-	-	23	-	-	-	-	-	-	-	-	-	80	12	-	-	-	MEASURED IN CAD
RIVER CITY CASINO BLVD	-	151	-	-	-	21	-	56	-	-	-	-	-	-	-	-	-	288	83	-	-	-	MEASURED IN CAD
SHETLAND DR	-	-	-	-	-	-	-	63	-	-	-	-	-	-	-	-	-	-	15	-	-	-	MEASURED IN CAD
SIGSBEE AVE	-	-	-	-	-	-	-	216	-	-	-	-	-	-	-	-	-	-	24	-	-	-	MEASURED IN CAD
SOUTHAMPTON DR	-	-	-	-	-	-	-	114	-	-	-	-	-	-	-	-	-	-	13	-	-	-	MEASURED IN CAD
SOUTHWARK LN	-	-	-	-	-	-	-	80	-	-	-	-	-	-	-	-	-	-	12	-	-	-	MEASURED IN CAD
SYLVANWOOD TERRACE	-	-	-	-	-	-	-	86	-	-	-	-	-	-	-	-	-	-	12	-	-	-	MEASURED IN CAD
SYLVIA DR	-	-	-	-	-	-	-	67	-	-	-	-	-	-	-	-	-	-	11	-	-	-	MEASURED IN CAD
TACOMA DR	-	-	-	-	-	-	-	83	-	-	-	-	-	-	-	-	-	-	13	-	-	-	MEASURED IN CAD
TELEGRAPH RD/LAREDO AVE	-	1,308	-	60	200	-	-	554	400	235	-	-	-	-	4	2	-	208	33	-	-	-	MEASURED IN CAD
TERELL DR	-	-	-	-	-	-	-	64	-	-	-	-	-	-	-	-	-	-	16	-	-	-	MEASURED IN CAD
VEIHL AVE	-	-	-	-	-	-	-	47	-	-	-	-	-	-	-	-	-	-	12	-	-	-	MEASURED IN CAD
EAST VELMA AVE	-	-	-	-	-	-	-	69	-	-	-	-	-	-	-	-	-	-	11	-	-	-	MEASURED IN CAD
WEST VELMA AVE	-	-	-	-	-	-	-	69	-	-	-	-	-	-	-	-	-	-	11	-	-	-	MEASURED IN CAD
VINCENT AVE	-	-	-	-	-	-	-	81	-	-	-	-	-	-	-	-	-	-	14	-	-	-	MEASURED IN CAD
WALLER AVE	-	-	-	-	-	-	-	77	-	-	-	-	-	-	-	-	-	-	8	-	-	-	MEASURED IN CAD
WALWORTH DR	-	-	-	-	-	-	-	40	-	-	-	-	-	-	-	-	-	-	13	-	-	-	MEASURED IN CAD
WEISS AVE	-	-	-	-	-	-	-	155	-	-	-	-	-	-	-	-	-	-	13	-	-	-	MEASURED IN CAD
WILLETTE TERRACE	-	-	-	-	-	-	-	65	-	-	-	-	-	-	-	-	-	-	12	-	-	-	MEASURED IN CAD
WOOLWICH LN	-	-	-	-	-	-	-	141	-	-	-	-	-	-	-	-	-	-	14	-	-	-	MEASURED IN CAD
TOTAL	17,125	21,314	17,831	688	69,260	8,738	303	14,637	400	235	42	109	109	55	9	6	76	948	1,110	172	33	1,846	-
PAY TOTAL	**56,270**			**688**	**78,301**			**14,637**	**400**	**235**	**42**	**109**	**109**	**64**		**6**	**76**	**948**	**3,160**				**-**

SUMMARY OF QUANTITIES
SHEET 69 OF 106

LAYOUT	NS	01/2025
DRAWN	SMC	01/2025
REVIEWED	DJK	01/2025

DENNIS J. KOSCIELSKI — STATE OF MISSOURI — NUMBER PE-2005000712 — PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED: 7/25/2025

ROUTE	STATE
231	MO
DISTRICT	SHEET NO.
SL	3

COUNTY: ST. LOUIS
JOB NO.: J6S3631
CONTRACT ID.:
PROJECT NO.:
BRIDGE NO.:

DATE	DESCRIPTION

I, DENNIS J. KOSCIELSKI, PRESENT ON THIS SHEET, IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

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Professional Engineer 001632
www.hanson-inc.com
314.770.0467

I:\22jobs\22H0100\CAD\Road\Sheet\003_QU_69_J6S3631_I1.dgn 7/25/2025

TEMPORARY TRAFFIC CONTROL (FOR INFORMATIONAL PURPOSES)

SHEET NO.	TRAFFIC CONTROL SHEET NO.	STATION FROM	STATION TO	ROADWAY	CENTER LINE	LOCATION	PHASE 1							PHASE 2							PHASE 3							PHASE 4						
							* 4 IN TEMPORARY PAVEMENT MARKING PAINT (SOLID WHITE)	* 4 IN TEMPORARY PAVEMENT MARKING PAINT (SOLID YELLOW)	* 4 IN TEMPORARY PAVEMENT MARKING PAINT (SOLID DUAL YELLOW)	* TEMPORARY REMOVABLE MARKING TAPE, 24 IN., WHITE	** CHANNELIZER (TRIM-LINE)	* PAVEMENT MARKING REMOVAL	* PAVEMENT MARKING REMOVAL (SYMBOL)	* 4 IN TEMPORARY PAVEMENT MARKING PAINT (SOLID WHITE)	* 4 IN TEMPORARY PAVEMENT MARKING PAINT (SOLID YELLOW)	* 4 IN TEMPORARY PAVEMENT MARKING PAINT (SOLID DUAL YELLOW)	* TEMPORARY REMOVABLE MARKING TAPE, 24 IN., WHITE	** CHANNELIZER (TRIM-LINE)	* PAVEMENT MARKING REMOVAL	* PAVEMENT MARKING REMOVAL (SYMBOL)	* 4 IN TEMPORARY PAVEMENT MARKING PAINT (SOLID WHITE)	* 4 IN TEMPORARY PAVEMENT MARKING PAINT (SOLID YELLOW)	* 4 IN TEMPORARY PAVEMENT MARKING PAINT (SOLID DUAL YELLOW)	* TEMPORARY REMOVABLE MARKING TAPE, 24 IN., WHITE	** CHANNELIZER (TRIM-LINE)	* PAVEMENT MARKING REMOVAL	* PAVEMENT MARKING REMOVAL (SYMBOL)	* 4 IN TEMPORARY PAVEMENT MARKING PAINT (SOLID WHITE)	* 4 IN TEMPORARY PAVEMENT MARKING PAINT (SOLID YELLOW)	* 4 IN TEMPORARY PAVEMENT MARKING PAINT (SOLID DUAL YELLOW)	* TEMPORARY REMOVABLE MARKING TAPE, 24 IN., WHITE	** CHANNELIZER (TRIM-LINE)	* PAVEMENT MARKING REMOVAL	* PAVEMENT MARKING REMOVAL (SYMBOL)
							(LF)	(LF)	(LF)	(LF)	(EA)	(LF)	(EA)	(LF)	(LF)	(LF)	(LF)	(EA)	(LF)	(EA)	(LF)	(LF)	(LF)	(LF)	(EA)	(LF)	(EA)	(LF)	(LF)	(LF)	(LF)	(EA)	(LF)	(EA)
223	18 OF 53	4+80.00	13+72.50	RTE 231/TELEGRAPH		RT	-	-	-	-	-	-	-	-	893	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
223	18 OF 53	4+80.00	39+98.00	RTE 231/TELEGRAPH		RT	-	-	-	-	-	-	-	3,518	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
223	18 OF 53	4+80.00	5+04.00	RTE 231/TELEGRAPH		RT	-	-	-	-	-	-	-	-	-	-	-	-	24	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
223	18 OF 53	4+80.00	5+04.00	RTE 231/TELEGRAPH		RT	-	-	-	-	-	-	-	-	-	-	-	-	24	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
223	18 OF 53	4+80.00	5+04.00	RTE 231/TELEGRAPH		RT	-	-	-	-	-	-	-	-	-	-	-	-	24	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
223	18 OF 53	4+80.00	5+04.00	RTE 231/TELEGRAPH		RT	-	-	-	-	-	-	-	-	-	-	-	-	24	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
223	18 OF 53	5+04.00	-	RTE 231/TELEGRAPH		RT	-	-	-	-	-	-	-	-	-	-	-	-	11	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
223	18 OF 53	5+04.00	-	RTE 231/TELEGRAPH		RT	-	-	-	-	-	-	-	-	-	-	-	-	11	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
223	18 OF 53	5+62.50	13+72.50	RTE 231/TELEGRAPH		LT	-	-	-	-	-	-	-	-	810	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
223-224	18-19 OF 53	5+62.50	39+05.50	RTE 231/TELEGRAPH		RT	-	-	-	-	-	-	-	-	-	-	-	-	3,343	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
223-224	18-19 OF 53	5+83.12	39+05.50	RTE 231/TELEGRAPH		RT	-	-	-	-	-	-	-	-	-	-	-	-	3,322	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
223-224	18-19 OF 53	5+84.00	-	RTE 231/TELEGRAPH		LT	-	-	-	-	-	-	-	-	-	-	-	-	11	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
223-224	18-19 OF 53	5+85.00	39+78.00	RTE 231/TELEGRAPH		CENTER	-	-	-	-	-	-	-	-	-	-	-	-	3,393	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
223-224	18-19 OF 53	6+48.00	39+98.00	RTE 231/TELEGRAPH		RT	-	-	-	-	-	-	-	-	-	-	-	-	3,350	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
223-224	18-19 OF 53	11+53.13	39+98.00	RTE 231/TELEGRAPH		LT	-	-	-	-	-	-	-	2,845	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
223-224	18-19 OF 53	13+72.50	39+80.00	RTE 231/TELEGRAPH		LT	-	-	-	-	-	-	-	-	-	-	-	-	2,608	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
223-224	18-19 OF 53	13+72.50	39+80.00	RTE 231/TELEGRAPH		LT	-	-	-	-	-	-	-	-	-	-	-	-	2,608	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
223-224	18-19 OF 53	13+72.50	39+98.00	RTE 231/TELEGRAPH		CENTER	-	-	-	-	-	-	-	-	-	2,626	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
223-224	18-19 OF 53	13+72.50	46+67.00	RTE 231/TELEGRAPH		LT	-	-	-	-	-	-	-	-	-	-	-	132	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
224	19 OF 53	39+05.00	39+98.00	RTE 231/TELEGRAPH	RTE 231	RT	-	-	-	-	-	-	-	-	-	-	-	-	93	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
224	19 OF 53	39+17.00	-	RTE 231/TELEGRAPH		RT	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
224	19 OF 53	39+78.00	-	RTE 231/TELEGRAPH		RT	-	-	-	-	-	-	-	-	-	-	-	-	11	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
224	19 OF 53	39+78.00	-	RTE 231/TELEGRAPH		RT	-	-	-	-	-	-	-	-	-	-	-	-	11	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
224	19 OF 53	39+98.00	-	RTE 231/TELEGRAPH		RT	-	-	-	-	-	-	-	-	-	-	11	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
224	19 OF 53	40+75.00	-	RTE 231/TELEGRAPH		LT	-	-	-	-	-	-	-	-	-	-	-	-	11	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
224	19 OF 53	40+75.00	-	RTE 231/TELEGRAPH		LT	-	-	-	-	-	-	-	-	-	-	-	-	11	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
224	19 OF 53	40+75.00	46+70.00	RTE 231/TELEGRAPH		LT	-	-	-	-	-	-	-	-	-	-	-	-	595	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
224	19 OF 53	40+75.00	42+28.00	RTE 231/TELEGRAPH		LT	-	-	-	-	-	-	-	-	-	-	-	-	153	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
224	19 OF 53	40+75.00	42+28.00	RTE 231/TELEGRAPH		LT	-	-	-	-	-	-	-	-	-	-	-	-	153	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
224	19 OF 53	40+75.34	-	RTE 231/TELEGRAPH		LT	-	-	-	-	-	-	-	-	-	-	11	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
224	19 OF 53	40+75.34	46+67.00	RTE 231/TELEGRAPH		RT	-	-	-	-	-	-	-	592	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
224	19 OF 53	40+75.34	46+67.00	RTE 231/TELEGRAPH		LT	-	-	-	-	-	-	-	592	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
224	19 OF 53	40+75.34	46+67.00	RTE 231/TELEGRAPH		CENTER	-	-	-	-	-	-	-	-	-	592	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
224	19 OF 53	40+90.00	46+70.00	RTE 231/TELEGRAPH		RT	-	-	-	-	-	-	-	-	-	-	-	-	580	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
224	19 OF 53	40+90.00	46+70.00	RTE 231/TELEGRAPH		RT	-	-	-	-	-	-	-	-	-	-	-	-	580	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
224	19 OF 53	40+93.00	-	RTE 231/TELEGRAPH		LT	-	-	-	-	-	-	-	-	-	-	-	-	11	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
224	19 OF 53	40+93.00	46+70.00	RTE 231/TELEGRAPH		LT	-	-	-	-	-	-	-	-	-	-	-	-	577	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
224	19 OF 53	41+56.00	-	RTE 231/TELEGRAPH		LT	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
224	19 OF 53	42+20.00	-	RTE 231/TELEGRAPH		LT	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
224	19 OF 53	45+78.00	46+70.00	RTE 231/TELEGRAPH		RT	-	-	-	-	-	-	-	-	-	-	-	-	92	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TABLE 1 SUBTOTAL							-	-	-	-	-	-	-	7,546	1,703	3,217	22	132	21,630	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-

✳ PAID FOR AS MISC. {TEMPORARY PAVEMENT MARKING PAINT} LUMP SUM
✳✳ PAID FOR AS MISC. {TEMPORARY TRAFFIC CONTROL} LUMP SUM SEE SHEET 106 OF 106

SUMMARY OF QUANTITIES
SHEET 70 OF 106

LAYOUT	NS	01/2025
DRAWN	SMC	01/2025
REVIEWED	DJK	01/2025

DENNIS J KOSCIELSKI
NUMBER PE-2005000712
STATE OF MISSOURI
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED
7/25/2025

ROUTE	STATE
231	MO
DISTRICT	SHEET NO.
SL	3

COUNTY
ST. LOUIS

JOB NO.
J6S3631

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION	DATE

IF A SEAL IS PRESENT ON THIS SHEET, IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

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Professional Engineer 001632
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314.770.0467

TEMPORARY TRAFFIC CONTROL (FOR INFORMATIONAL PURPOSES) (CONT.)

SHEET NO.	TRAFFIC CONTROL SHEET NO.	STATION FROM	STATION TO	ROADWAY	CENTER LINE	LOCATION	PHASE 1							PHASE 2							PHASE 3							PHASE 4						
							* 4 IN TEMPORARY PAVEMENT MARKING PAINT (SOLID WHITE)	* 4 IN TEMPORARY PAVEMENT MARKING PAINT (SOLID YELLOW)	* 4 IN TEMPORARY PAVEMENT MARKING PAINT (SOLID DUAL YELLOW)	* TEMPORARY REMOVABLE MARKING TAPE, 24 IN., WHITE	** CHANNELIZER (TRIM-LINE)	* PAVEMENT MARKING REMOVAL	* PAVEMENT MARKING REMOVAL (SYMBOL)	* 4 IN TEMPORARY PAVEMENT MARKING PAINT (SOLID WHITE)	* 4 IN TEMPORARY PAVEMENT MARKING PAINT (SOLID YELLOW)	* 4 IN TEMPORARY PAVEMENT MARKING PAINT (SOLID DUAL YELLOW)	* TEMPORARY REMOVABLE MARKING TAPE, 24 IN., WHITE	** CHANNELIZER (TRIM-LINE)	* PAVEMENT MARKING REMOVAL	* PAVEMENT MARKING REMOVAL (SYMBOL)	* 4 IN TEMPORARY PAVEMENT MARKING PAINT (SOLID WHITE)	* 4 IN TEMPORARY PAVEMENT MARKING PAINT (SOLID YELLOW)	* 4 IN TEMPORARY PAVEMENT MARKING PAINT (SOLID DUAL YELLOW)	* TEMPORARY REMOVABLE MARKING TAPE, 24 IN., WHITE	** CHANNELIZER (TRIM-LINE)	* PAVEMENT MARKING REMOVAL	* PAVEMENT MARKING REMOVAL (SYMBOL)	* 4 IN TEMPORARY PAVEMENT MARKING PAINT (SOLID WHITE)	* 4 IN TEMPORARY PAVEMENT MARKING PAINT (SOLID YELLOW)	* 4 IN TEMPORARY PAVEMENT MARKING PAINT (SOLID DUAL YELLOW)	* TEMPORARY REMOVABLE MARKING TAPE, 24 IN., WHITE	** CHANNELIZER (TRIM-LINE)	* PAVEMENT MARKING REMOVAL	* PAVEMENT MARKING REMOVAL (SYMBOL)
							(LF)	(LF)	(LF)	(LF)	(EA)	(LF)	(EA)	(LF)	(LF)	(LF)	(LF)	(EA)	(LF)	(EA)	(LF)	(LF)	(LF)	(LF)	(EA)	(LF)	(EA)	(LF)	(LF)	(LF)	(LF)	(EA)	(LF)	(EA)
224	19 OF 53	45+84.00	-	RTE 231/TELEGRAPH		RT	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
224	19 OF 53	46+67.00	-	RTE 231/TELEGRAPH		RT	-	-	-	-	-	-	-	-	-	-	11	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
224	19 OF 53	46+70.00	-	RTE 231/TELEGRAPH		RT	-	-	-	-	-	-	-	-	-	-	-	-	11	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
224	19 OF 53	46+70.00	-	RTE 231/TELEGRAPH		RT	-	-	-	-	-	-	-	-	-	-	-	-	11	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
224	19 OF 53	46+70.00	-	RTE 231/TELEGRAPH		RT	-	-	-	-	-	-	-	-	-	-	-	-	11	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
224	19 OF 53	46+98.00	47+89.00	RTE 231/TELEGRAPH		RT	-	-	-	-	-	-	-	-	-	-	-	-	91	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
224	19 OF 53	47+26.69	48+11.00	RTE 231/TELEGRAPH		CENTER	-	-	-	-	-	-	-	-	-	84	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
231-232	26-27 OF 53	4+80.00	39+79.00	RTE 231/TELEGRAPH		RT	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3,499	-	-	-	-	-	-	-	-	-	-	-	-	-
231	26 OF 53	5+82.50	13+72.50	RTE 231/TELEGRAPH		CENTER	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	790	-	-	-	-	-	-	-	-	-	-	-	-
231	26 OF 53	5+82.50	13+72.50	RTE 231/TELEGRAPH		CENTER	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	790	-	-	-	-	-	-	-	-	-	-	-	-
231-232	26-27 OF 53	9+67.50	39+79.00	RTE 231/TELEGRAPH		LT	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3,012	-	-	-	-	-	-	-	-	-	-	-	-	-
231-232	26-27 OF 53	13+72.50	39+79.00	RTE 231/TELEGRAPH		CENTER	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2,607	-	-	-	-	-	-	-	-	-	-	-
231-232	26-27 OF 53	13+72.50	48+11.00	RTE 231/TELEGRAPH		RT	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	138	-	-	-	-	-	-	-	-	-
232	27 OF 53	39+79.00	-	RTE 231/TELEGRAPH		RT	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	11	-	-	-	-	-	-	-	-	-	-
232	27 OF 53	40+75.34	-	RTE 231/TELEGRAPH		LT	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	11	-	-	-	-	-	-	-	-	-	-
232	27 OF 53	40+75.34	46+67.00	RTE 231/TELEGRAPH		RT	-	-	-	-	-	-	-	-	-	-	-	-	-	-	592	-	-	-	-	-	-	-	-	-	-	-	-	-
232	27 OF 53	40+75.34	46+67.00	RTE 231/TELEGRAPH		LT	-	-	-	-	-	-	-	-	-	-	-	-	-	-	592	-	-	-	-	-	-	-	-	-	-	-	-	-
232	27 OF 53	40+75.34	46+67.00	RTE 231/TELEGRAPH		CENTER	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	592	-	-	-	-	-	-	-	-	-	-	-
232	27 OF 53	46+67.00	-	RTE 231/TELEGRAPH		RT	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	11	-	-	-	-	-	-	-	-	-	-
232	27 OF 53	47+26.69	48+11.00	RTE 231/TELEGRAPH	RTE 231	CENTER	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	84	-	-	-	-	-	-	-	-	-	-	-
238	33 OF 53	11+94.00	28+48.00	RTE 231/TELEGRAPH		RT	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1,654	-	-	-	-	-	-
238	33 OF 53	11+94.00	28+48.00	RTE 231/TELEGRAPH		RT	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	67	-	-
238	33 OF 53	14+74.00	28+48.00	RTE 231/TELEGRAPH		RT	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1,374	-	-	-	-	-	-
238	33 OF 53	14+74.00	28+48.00	RTE 231/TELEGRAPH		LT	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1,374	-	-	-	-	-	-
238	33 OF 53	14+74.00	28+48.00	RTE 231/TELEGRAPH		LT	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1,374	-	-	-	-	-	-
238	33 OF 53	14+74.00	28+48.00	RTE 231/TELEGRAPH		LT	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	55	-	-
239	34 OF 53	35+41.00	51+21.00	RTE 231/TELEGRAPH		RT	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1,580	-	-	-	-	-	-
239	34 OF 53	35+41.00	57+74.00	RTE 231/TELEGRAPH		RT	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2,233	-	-	-	-	-	-
239	34 OF 53	35+41.00	51+21.00	RTE 231/TELEGRAPH		RT	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	64	-	-
239	34 OF 53	39+21.00	53+59.00	RTE 231/TELEGRAPH		LT	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	58	-	-
239	34 OF 53	39+21.00	56+00.00	RTE 231/TELEGRAPH		LT	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1,679	-	-	-	-	-	-
239	34 OF 53	39+21.00	55+29.00	RTE 231/TELEGRAPH		LT	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1,608	-	-	-	-	-	-
239	34 OF 53	46+70.00	57+74.00	RTE 231/TELEGRAPH		RT	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1,104	-
239	34 OF 53	48+30.00	53+59.00	RTE 231/TELEGRAPH		LT	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	529	-
239	34 OF 53	48+30.00	49+42.00	RTE 231/TELEGRAPH		LT	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	112	-
239	34 OF 53	48+30.00	49+21.00	RTE 231/TELEGRAPH		LT	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	91	-
239	34 OF 53	48+30.00	-	RTE 231/TELEGRAPH		LT	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	11	-
239	34 OF 53	48+30.00	-	RTE 231/TELEGRAPH		LT	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	11	-
239	34 OF 53	48+30.00	57+74.00	RTE 231/TELEGRAPH		RT	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	944	-
TABLE 2 SUBTOTAL							-	-	-	-	-	-	-	-	-	84	11	-	124	1	7,694	1,580	3,283	33	138	-	-	12,876	-	-	-	244	2,813	-

✳ PAID FOR AS MISC. {TEMPORARY PAVEMENT MARKING PAINT} LUMP SUM
✳✳ PAID FOR AS MISC. {TEMPORARY TRAFFIC CONTROL} LUMP SUM SEE SHEET 106 OF 106

SUMMARY OF QUANTITIES
SHEET 71 OF 106

LAYOUT	NS	01/2025
DRAWN	SMC	01/2025
REVIEWED	DJK	01/2025

STATE OF MISSOURI
DENNIS KOSCIELSKI
NUMBER PE-2005000712
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED
7/25/2025

ROUTE	STATE
231	MO
DISTRICT	SHEET NO.
SL	3

COUNTY
ST. LOUIS

JOB NO.
J6S3631

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION	DATE

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

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TEMPORARY TRAFFIC CONTROL (FOR INFORMATIONAL PURPOSES) (CONT.)

SHEET NO.	TRAFFIC CONTROL SHEET NO.	STATION FROM	STATION TO	ROADWAY	CENTER LINE	LOCATION	PHASE 1							PHASE 2							PHASE 3							PHASE 4						
							* 4 IN TEMPORARY PAVEMENT MARKING PAINT (SOLID WHITE)	* 4 IN TEMPORARY PAVEMENT MARKING PAINT (SOLID YELLOW)	* 4 IN TEMPORARY PAVEMENT MARKING PAINT (SOLID DUAL YELLOW)	* TEMPORARY REMOVABLE MARKING TAPE, 24 IN., WHITE	** CHANNELIZER (TRIM-LINE)	* PAVEMENT MARKING REMOVAL	* PAVEMENT MARKING REMOVAL (SYMBOL)	* 4 IN TEMPORARY PAVEMENT MARKING PAINT (SOLID WHITE)	* 4 IN TEMPORARY PAVEMENT MARKING PAINT (SOLID YELLOW)	* 4 IN TEMPORARY PAVEMENT MARKING PAINT (SOLID DUAL YELLOW)	* TEMPORARY REMOVABLE MARKING TAPE, 24 IN., WHITE	** CHANNELIZER (TRIM-LINE)	* PAVEMENT MARKING REMOVAL	* PAVEMENT MARKING REMOVAL (SYMBOL)	* 4 IN TEMPORARY PAVEMENT MARKING PAINT (SOLID WHITE)	* 4 IN TEMPORARY PAVEMENT MARKING PAINT (SOLID YELLOW)	* 4 IN TEMPORARY PAVEMENT MARKING PAINT (SOLID DUAL YELLOW)	* TEMPORARY REMOVABLE MARKING TAPE, 24 IN., WHITE	** CHANNELIZER (TRIM-LINE)	* PAVEMENT MARKING REMOVAL	* PAVEMENT MARKING REMOVAL (SYMBOL)	* 4 IN TEMPORARY PAVEMENT MARKING PAINT (SOLID WHITE)	* 4 IN TEMPORARY PAVEMENT MARKING PAINT (SOLID YELLOW)	* 4 IN TEMPORARY PAVEMENT MARKING PAINT (SOLID DUAL YELLOW)	* TEMPORARY REMOVABLE MARKING TAPE, 24 IN., WHITE	** CHANNELIZER (TRIM-LINE)	* PAVEMENT MARKING REMOVAL	* PAVEMENT MARKING REMOVAL (SYMBOL)
							(LF)	(LF)	(LF)	(LF)	(EA)	(LF)	(EA)	(LF)	(LF)	(LF)	(LF)	(EA)	(LF)	(EA)	(LF)	(LF)	(LF)	(LF)	(EA)	(LF)	(EA)	(LF)	(LF)	(LF)	(LF)	(EA)	(LF)	(EA)
239	34 OF 53	49+06.00	-	RTE 231/TELEGRAPH		LT	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1
239	34 OF 53	49+21.00	53+59.00	RTE 231/TELEGRAPH		LT	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	438	-
239	34 OF 53	48+41.00	57+74.00	RTE 231/TELEGRAPH		RT	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	38	-	-
224-226	19-21 OF 53	48+10.70	99+67.00	RTE 231/KINGSTON		LT	-	-	-	-	-	-	-	-	-	-	-	207	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
224-226	19-21 OF 53	48+11.00	99+67.00	RTE 231/KINGSTON		LT	-	-	-	-	-	-	-	5,156	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
224-226	19-21 OF 53	48+11.00	99+67.00	RTE 231/KINGSTON		RT	-	-	-	-	-	-	-	5,156	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
224-226	19-21 OF 53	48+11.00	99+67.00	RTE 231/KINGSTON		CENTER	-	-	-	-	-	-	-	-	-	5,156	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
224	19 OF 53	48+11.00	-	RTE 231/KINGSTON		LT	-	-	-	-	-	-	-	-	-	-	11	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
224	19 OF 53	48+30.00	50+63.00	RTE 231/KINGSTON		CENTER	-	-	-	-	-	-	-	-	-	-	-	-	233	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
224	19 OF 53	49+98.00	50+63.00	RTE 231/KINGSTON		LT	-	-	-	-	-	-	-	-	-	-	-	-	65	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
224	19 OF 53	50+10.00	-	RTE 231/KINGSTON		LT	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
224-226	19-21 OF 53	51+13.00	99+67.00	RTE 231/KINGSTON		CENTER	-	-	-	-	-	-	-	-	-	-	-	-	4,854	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
224-226	19-21 OF 53	53+59.00	99+67.00	RTE 231/KINGSTON		LT	-	-	-	-	-	-	-	-	-	-	-	-	4,608	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
224-226	19-21 OF 53	53+59.00	99+67.00	RTE 231/KINGSTON		LT	-	-	-	-	-	-	-	-	-	-	-	-	4,608	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
224-226	19-21 OF 53	57+74.00	99+67.00	RTE 231/KINGSTON		RT	-	-	-	-	-	-	-	-	-	-	-	-	4,193	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
224-226	19-21 OF 53	57+74.00	99+67.00	RTE 231/KINGSTON		RT	-	-	-	-	-	-	-	-	-	-	-	-	4,193	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
232	27 OF 53	48+32.00	99+67.00	RTE 231/KINGSTON		LT	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	206	-	-	-	-	-	-	-	-
232-234	27-29 OF 53	48+32.00	99+67.00	RTE 231/KINGSTON		RT	-	-	-	-	-	-	-	-	-	-	-	-	-	-	5,135	-	-	-	-	-	-	-	-	-	-	-	-	-
232-234	27-29 OF 53	48+32.00	99+67.00	RTE 231/KINGSTON		LT	-	-	-	-	-	-	-	-	-	-	-	-	-	-	5,135	-	-	-	-	-	-	-	-	-	-	-	-	-
232-234	27-29 OF 53	48+32.00	99+67.00	RTE 231/KINGSTON		CENTER	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	5,135	-	-	-	-	-	-	-	-	-	-	-
232	27 OF 53	48+11.00	-	RTE 231/KINGSTON	RTE 231	LT	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	11	-	-	-	-	-	-	-	-	-	-
240-241	35-36 OF 53	64+01.00	78+47.00	RTE 231/KINGSTON		RT	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	58	-	-
240-241	35-36 OF 53	64+01.00	96+80.00	RTE 231/KINGSTON		RT	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3,279	-	-	-	-	-	-
240-241	35-36 OF 53	66+75.00	95+06.00	RTE 231/KINGSTON		RT	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2,831	-	-	-	-	-	-
240-241	35-36 OF 53	64+22.00	78+20.00	RTE 231/KINGSTON		LT	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	56	-	-
240-241	35-36 OF 53	64+22.00	96+53.00	RTE 231/KINGSTON		LT	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3,231	-	-	-	-	-	-
240-241	35-36 OF 53	65+75.00	95+06.00	RTE 231/KINGSTON		LT	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2,931	-	-	-	-	-	-
240-241	35-36 OF 53	82+33.00	96+80.00	RTE 231/KINGSTON		RT	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	58	-	-
240-241	35-36 OF 53	82+60.00	96+53.00	RTE 231/KINGSTON		LT	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	56	-	-
242	37 OF 53	109+58.00	114+69.00	RTE 231/BROADWAY		LT	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	511	-	-	-	-	-	-
242	37 OF 53	109+58.00	111+46.00	RTE 231/BROADWAY		LT	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	188	-	-	-	-	-
242	37 OF 53	111+32.00	114+69.00	RTE 231/BROADWAY		RT	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	337	-	-	-	-	-	-
242	37 OF 53	111+46.00	114+69.00	RTE 231/BROADWAY		LT	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	13	-	-
242	37 OF 53	111+46.00	114+69.00	RTE 231/BROADWAY		RT	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	13	-	-
215	10 OF 53	94+19.00	101+00.00	RTE 231/KINGSTON		RT	681	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
215	10 OF 53	94+19.00	101+00.00	RTE 231/KINGSTON		LT	681	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
215	10 OF 53	97+91.00	101+00.00	RTE 231/KINGSTON		CENTER	-	-	309	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
215	10 OF 53	97+91.00	101+00.00	RTE 231/KINGSTON		LT	-	-	-	-	13	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
215	10 OF 53	97+91.00	101+00.00	RTE 231/KINGSTON		RT	-	-	-	-	13	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
215-216	10-11 OF 53	97+91.00	107+50.00	RTE 231/BROADWAY		LT	959	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
215-216	10-11 OF 53	97+91.00	107+50.00	RTE 231/BROADWAY		RT	959	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TABLE 3 SUBTOTAL							3,280	-	309	-	26	-	-	10,312	-	5,156	11	207	22,754	1	10,270	-	5,135	11	206	-	-	13,120	188	-	-	292	438	1

✳ PAID FOR AS MISC. {TEMPORARY PAVEMENT MARKING PAINT} LUMP SUM
✳✳ PAID FOR AS MISC. {TEMPORARY TRAFFIC CONTROL} LUMP SUM SEE SHEET 106 OF 106

SUMMARY OF QUANTITIES
SHEET 72 OF 106

LAYOUT	NS	01/2025
DRAWN	SMC	01/2025
REVIEWED	DJK	01/2025

DENNIS J KOSCIELSKI
NUMBER PE-2005000712
STATE OF MISSOURI
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED
7/25/2025

ROUTE	STATE
231	MO
DISTRICT	SHEET NO.
SL	3

COUNTY
ST. LOUIS

JOB NO.
J6S3631

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DATE	DESCRIPTION

IF A SEAL IS PRESENT ON THIS SHEET, IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

MoDOT

105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

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St. Louis, Missouri 63101
Professional Engineer 001632
www.hanson-inc.com
314.770.0467

TEMPORARY TRAFFIC CONTROL (FOR INFORMATIONAL PURPOSES) (CONT.)

SHEET NO.	TRAFFIC CONTROL SHEET NO.	STATION FROM	STATION TO	ROADWAY	CENTER LINE	LOCATION	PHASE 1							PHASE 2							PHASE 3							PHASE 4						
							* 4 IN TEMPORARY PAVEMENT MARKING PAINT (SOLID WHITE)	* 4 IN TEMPORARY PAVEMENT MARKING PAINT (SOLID YELLOW)	* 4 IN TEMPORARY PAVEMENT MARKING PAINT (SOLID DUAL YELLOW)	* TEMPORARY REMOVABLE MARKING TAPE, 24 IN., WHITE	** CHANNELIZER (TRIM-LINE)	* PAVEMENT MARKING REMOVAL	* PAVEMENT MARKING REMOVAL (SYMBOL)	* 4 IN TEMPORARY PAVEMENT MARKING PAINT (SOLID WHITE)	* 4 IN TEMPORARY PAVEMENT MARKING PAINT (SOLID YELLOW)	* 4 IN TEMPORARY PAVEMENT MARKING PAINT (SOLID DUAL YELLOW)	* TEMPORARY REMOVABLE MARKING TAPE, 24 IN., WHITE	** CHANNELIZER (TRIM-LINE)	* PAVEMENT MARKING REMOVAL	* PAVEMENT MARKING REMOVAL (SYMBOL)	* 4 IN TEMPORARY PAVEMENT MARKING PAINT (SOLID WHITE)	* 4 IN TEMPORARY PAVEMENT MARKING PAINT (SOLID YELLOW)	* 4 IN TEMPORARY PAVEMENT MARKING PAINT (SOLID DUAL YELLOW)	* TEMPORARY REMOVABLE MARKING TAPE, 24 IN., WHITE	** CHANNELIZER (TRIM-LINE)	* PAVEMENT MARKING REMOVAL	* PAVEMENT MARKING REMOVAL (SYMBOL)	* 4 IN TEMPORARY PAVEMENT MARKING PAINT (SOLID WHITE)	* 4 IN TEMPORARY PAVEMENT MARKING PAINT (SOLID YELLOW)	* 4 IN TEMPORARY PAVEMENT MARKING PAINT (SOLID DUAL YELLOW)	* TEMPORARY REMOVABLE MARKING TAPE, 24 IN., WHITE	** CHANNELIZER (TRIM-LINE)	* PAVEMENT MARKING REMOVAL	* PAVEMENT MARKING REMOVAL (SYMBOL)
							(LF)	(LF)	(LF)	(LF)	(EA)	(LF)	(EA)	(LF)	(LF)	(LF)	(LF)	(EA)	(LF)	(EA)	(LF)	(LF)	(LF)	(LF)	(EA)	(LF)	(EA)	(LF)	(LF)	(LF)	(LF)	(EA)	(LF)	(EA)
215-216	10-11 OF 53	97+91.00	107+50.00	RTE 231/BROADWAY	RTE 231	CENTER	-	-	959	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
215-216	10-11 OF 53	97+91.00	107+50.00	RTE 231/BROADWAY		LT	-	-	-	-	39	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
215-216	10-11 OF 53	99+67.00	107+50.00	RTE 231/BROADWAY		LT	-	-	-	-	-	783	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
215-216	10-11 OF 53	99+67.00	105+60.00	RTE 231/BROADWAY		LT	-	-	-	-	-	593	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
215-216	10-11 OF 53	100+48.00	101+62.00	RTE 231/BROADWAY		CENTER	-	-	-	-	-	114	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
215-216	10-11 OF 53	100+53.00	106+10.00	RTE 231/BROADWAY		RT	-	-	-	-	-	557	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
215-216	10-11 OF 53	100+58.00	107+50.00	RTE 231/BROADWAY		CENTER	-	-	-	-	-	692	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
216	11 OF 53	101+11.00	107+50.00	RTE 231/BROADWAY		RT	-	-	-	-	-	639	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
216	11 OF 53	101+45.00	-	RTE 231/BROADWAY		CENTER	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
216	11 OF 53	102+20.00	103+93.00	RTE 231/BROADWAY		CENTER	-	-	-	-	-	173	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
216	11 OF 53	103+95.00	-	RTE 231/BROADWAY		RT	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
216	11 OF 53	104+65.00	-	RTE 231/BROADWAY		RT	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
216	11 OF 53	105+35.00	-	RTE 231/BROADWAY		RT	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
216	11 OF 53	105+35.00	-	RTE 231/BROADWAY		RT	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
216	11 OF 53	106+10.00	107+50.00	RTE 231/BROADWAY		CENTER	-	-	-	-	-	140	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
216	11 OF 53	106+20.00	-	RTE 231/BROADWAY		RT	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
216	11 OF 53	106+20.00	-	RTE 231/BROADWAY		CENTER	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
216	11 OF 53	106+70.00	-	RTE 231/BROADWAY		RT	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
216	11 OF 53	106+90.00	-	RTE 231/BROADWAY		CENTER	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
216	11 OF 53	106+90.00	-	RTE 231/BROADWAY		RT	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
216	11 OF 53	107+50.00	-	RTE 231/BROADWAY		RT	-	-	-	-	-	12	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
216	11 OF 53	107+50.00	-	RTE 231/BROADWAY		RT	-	-	-	-	-	12	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
216	11 OF 53	107+50.00	-	RTE 231/BROADWAY		RT	-	-	-	-	-	12	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
216	11 OF 53	107+50.00	-	RTE 231/BROADWAY		RT	-	-	-	12	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
216	11 OF 53	108+45.00	-	RTE 231/BROADWAY		LT	-	-	-	12	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
216-217	11-12 OF 53	108+45.00	142+75.00	RTE 231/BROADWAY		LT	3,430	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
216	11 OF 53	108+45.00	-	RTE 231/BROADWAY		LT	-	-	-	-	-	12	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
216	11 OF 53	108+45.00	-	RTE 231/BROADWAY		LT	-	-	-	-	-	12	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
216-217	11-12 OF 53	108+45.00	142+77.00	RTE 231/BROADWAY		LT	-	-	-	-	-	3,432	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
216-217	11-12 OF 53	108+45.00	142+77.00	RTE 231/BROADWAY		RT	-	-	-	-	-	3,432	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
216-217	11-12 OF 53	108+45.00	142+77.00	RTE 231/BROADWAY		CENTER	-	-	-	-	-	3,432	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
216	11 OF 53	108+45.00	109+95.00	RTE 231/BROADWAY		CENTER	-	-	-	-	-	150	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
216-217	11-12 OF 53	108+45.00	142+75.00	RTE 231/BROADWAY		RT	3,430	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
216-217	11-12 OF 53	108+45.00	142+75.00	RTE 231/BROADWAY		CENTER	-	-	3,430	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
216-217	11-12 OF 53	108+45.00	142+75.00	RTE 231/BROADWAY		LT	-	-	-	-	138	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
216	11 OF 53	109+14.00	-	RTE 231/BROADWAY		CENTER	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
216	11 OF 53	109+89.00	-	RTE 231/BROADWAY		CENTER	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
216	11 OF 53	110+32.00	113+20.00	RTE 231/BROADWAY		CENTER	-	-	-	-	-	288	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
217	12 OF 53	138+97.00	142+93.00	RTE 231/BROADWAY		CENTER	-	-	-	-	-	396	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
217	12 OF 53	140+86.00	142+93.00	RTE 231/BROADWAY		LT	-	-	-	-	-	207	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TABLE 4 SUBTOTAL							6,860	-	4,389	24	177	15,088	12	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

✳ PAID FOR AS MISC. {TEMPORARY PAVEMENT MARKING PAINT} LUMP SUM
✳✳ PAID FOR AS MISC. {TEMPORARY TRAFFIC CONTROL} LUMP SUM SEE SHEET 106 OF 106

SUMMARY OF QUANTITIES
SHEET 73 OF 106

LAYOUT	NS	01/2025
DRAWN	SMC	01/2025
REVIEWED	DJK	01/2025

STATE OF MISSOURI
DENNIS J KOSCIELSKI
NUMBER PE-2005000712
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED
7/25/2025

ROUTE	STATE
231	MO
DISTRICT	SHEET NO.
SL	3

COUNTY
ST. LOUIS

JOB NO.
J6S3631

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION	DATE

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

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Professional Engineer 001632
www.hanson-inc.com
314.770.0467

TEMPORARY TRAFFIC CONTROL (FOR INFORMATIONAL PURPOSES) (CONT.)

SHEET NO.	TRAFFIC CONTROL SHEET NO.	STATION FROM	STATION TO	ROADWAY	CENTER LINE	LOCATION	PHASE 1							PHASE 2							PHASE 3							PHASE 4						
							* 4 IN TEMPORARY PAVEMENT MARKING PAINT (SOLID WHITE)	* 4 IN TEMPORARY PAVEMENT MARKING PAINT (SOLID YELLOW)	* 4 IN TEMPORARY PAVEMENT MARKING PAINT (SOLID DUAL YELLOW)	* TEMPORARY REMOVABLE MARKING TAPE, 24 IN., WHITE	** CHANNELIZER (TRIM-LINE)	* PAVEMENT MARKING REMOVAL	* PAVEMENT MARKING REMOVAL (SYMBOL)	* 4 IN TEMPORARY PAVEMENT MARKING PAINT (SOLID WHITE)	* 4 IN TEMPORARY PAVEMENT MARKING PAINT (SOLID YELLOW)	* 4 IN TEMPORARY PAVEMENT MARKING PAINT (SOLID DUAL YELLOW)	* TEMPORARY REMOVABLE MARKING TAPE, 24 IN., WHITE	** CHANNELIZER (TRIM-LINE)	* PAVEMENT MARKING REMOVAL	* PAVEMENT MARKING REMOVAL (SYMBOL)	* 4 IN TEMPORARY PAVEMENT MARKING PAINT (SOLID WHITE)	* 4 IN TEMPORARY PAVEMENT MARKING PAINT (SOLID YELLOW)	* 4 IN TEMPORARY PAVEMENT MARKING PAINT (SOLID DUAL YELLOW)	* TEMPORARY REMOVABLE MARKING TAPE, 24 IN., WHITE	** CHANNELIZER (TRIM-LINE)	* PAVEMENT MARKING REMOVAL	* PAVEMENT MARKING REMOVAL (SYMBOL)	* 4 IN TEMPORARY PAVEMENT MARKING PAINT (SOLID WHITE)	* 4 IN TEMPORARY PAVEMENT MARKING PAINT (SOLID YELLOW)	* 4 IN TEMPORARY PAVEMENT MARKING PAINT (SOLID DUAL YELLOW)	* TEMPORARY REMOVABLE MARKING TAPE, 24 IN., WHITE	** CHANNELIZER (TRIM-LINE)	* PAVEMENT MARKING REMOVAL	* PAVEMENT MARKING REMOVAL (SYMBOL)
							(LF)	(LF)	(LF)	(LF)	(EA)	(LF)	(EA)	(LF)	(LF)	(LF)	(LF)	(EA)	(LF)	(EA)	(LF)	(LF)	(LF)	(LF)	(EA)	(LF)	(EA)	(LF)	(LF)	(LF)	(LF)	(EA)	(LF)	(EA)
217	12 OF 53	140+86.00	142+93.00	RTE 231/BROADWAY	RTE 231	RT	-	-	-	-	-	207	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
217	12 OF 53	141+01.00	-	RTE 231/BROADWAY		CENTER	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
217	12 OF 53	141+01.00	-	RTE 231/BROADWAY		RT	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
217	12 OF 53	142+09.00	-	RTE 231/BROADWAY		CENTER	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
217	12 OF 53	142+23.00	-	RTE 231/BROADWAY		RT	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
217	12 OF 53	142+75.00	-	RTE 231/BROADWAY		RT	-	-	-	12	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
217	12 OF 53	142+76.00	-	RTE 231/BROADWAY		RT	-	-	-	-	-	12	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
217	12 OF 53	142+93.00	-	RTE 231/BROADWAY		RT	-	-	-	-	-	12	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
217	12 OF 53	142+93.00	-	RTE 231/BROADWAY		RT	-	-	-	-	-	12	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
219	14 OF 53	94+19.00	101+00.00	RTE 231/KINGSTON		RT	681	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
219	14 OF 53	94+19.00	101+00.00	RTE 231/KINGSTON		LT	681	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
219	14 OF 53	97+91.00	101+00.00	RTE 231/KINGSTON		CENTER	-	-	309	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
219	14 OF 53	97+91.00	101+00.00	RTE 231/KINGSTON		LT	-	-	-	-	13	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
219	14 OF 53	97+91.00	101+00.00	RTE 231/KINGSTON		RT	-	-	-	-	13	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
219-220	14-15 OF 53	99+67.00	107+50.00	RTE 231/BROADWAY		LT	783	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
219-220	14-15 OF 53	99+67.00	107+50.00	RTE 231/BROADWAY		RT	783	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
219-220	14-15 OF 53	99+67.00	107+50.00	RTE 231/BROADWAY		CENTER	-	-	783	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
219-220	14-16 OF 53	99+67.00	142+93.00	RTE 231/BROADWAY		RT	-	-	-	-	174	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
220	15 OF 53	107+50.00	-	RTE 231/BROADWAY		RT	-	-	-	12	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
220	15 OF 53	108+45.00	-	RTE 231/BROADWAY		LT	-	-	-	12	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
220-221	15-16 OF 53	108+45.00	142+93.00	RTE 231/BROADWAY		LT	3,448	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
220-221	15-16 OF 53	108+45.00	142+93.00	RTE 231/BROADWAY		RT	3,448	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
220-221	15-16 OF 53	108+45.00	142+93.00	RTE 231/BROADWAY		CENTER	-	-	3,448	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
221	16 OF 53	142+93.00	-	RTE 231/BROADWAY		RT	-	-	-	12	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
226	21 OF 53	99+67.00	107+55.60	RTE 231/BROADWAY		LT	-	-	-	-	-	-	-	789	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
226	21 OF 53	99+67.00	107+55.60	RTE 231/BROADWAY		RT	-	-	-	-	-	-	-	789	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
226	21 OF 53	99+67.00	107+55.60	RTE 231/BROADWAY		CENTER	-	-	-	-	-	-	-	-	-	789	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
226	21 OF 53	99+67.00	142+93.00	RTE 231/BROADWAY		LT	-	-	-	-	-	-	-	-	-	-	-	174	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
220	15 OF 53	107+55.60	-	RTE 231/BROADWAY		RT	-	-	-	10	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
220	15 OF 53	108+41.00	-	RTE 231/BROADWAY		LT	-	-	-	10	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
226	21 OF 53	108+41.00	142+93.00	RTE 231/BROADWAY		RT	-	-	-	-	-	-	-	3,452	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
226	21 OF 53	108+41.00	142+93.00	RTE 231/BROADWAY		RT	-	-	-	-	-	-	-	3,452	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
220-228	15-23 OF 53	108+41.00	142+93.00	RTE 231/BROADWAY		CENTER	-	-	-	-	-	-	-	-	-	3,452	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
228	23 OF 53	142+93.00	-	RTE 231/BROADWAY		RT	-	-	-	10	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
234-235	29-30 OF 53	99+67.00	107+50.00	RTE 231/BROADWAY		RT	-	-	-	-	-	-	-	-	-	-	-	-	-	-	783	-	-	-	-	-	-	-	-	-	-	-	-	-	-
234-235	29-30 OF 53	99+67.00	107+50.00	RTE 231/BROADWAY		LT	-	-	-	-	-	-	-	-	-	-	-	-	-	-	783	-	-	-	-	-	-	-	-	-	-	-	-	-	-
234-235	29-30 OF 53	99+67.00	107+50.00	RTE 231/BROADWAY		CENTER	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	783	-	-	-	-	-	-	-	-	-	-	-	-	-
234-236	29-31 OF 53	99+67.00	142+75.00	RTE 231/BROADWAY		RT	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	173	-	-	-	-	-	-	-	-	-	-
234	29 OF 53	107+50.00	-	RTE 231/BROADWAY		RT	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	10	-	-	-	-	-	-	-	-	-	-	-
234	29 OF 53	108+45.00	-	RTE 231/BROADWAY		LT	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	10	-	-	-	-	-	-	-	-	-	-	-
TABLE 5 SUBTOTAL							9,824	-	4,540	78	200	243	4	8,481	-	4,241	-	174	-	-	1,566	-	783	20	173	-	-	-	-	-	-	-	-	-	-

✳ PAID FOR AS MISC. {TEMPORARY PAVEMENT MARKING PAINT} LUMP SUM
✳✳ PAID FOR AS MISC. {TEMPORARY TRAFFIC CONTROL} LUMP SUM SEE SHEET 106 OF 106

SUMMARY OF QUANTITIES
SHEET 74 OF 106

LAYOUT	NS	01/2025
DRAWN	SMC	01/2025
REVIEWED	DJK	01/2025

STATE OF MISSOURI
DENNIS J KOSCIELSKI
NUMBER PE-2005000712
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED
7/25/2025

ROUTE	STATE
231	MO
DISTRICT	SHEET NO.
SL	3

COUNTY
ST. LOUIS

JOB NO.
J6S3631

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION	DATE

IF A SEAL IS PRESENT ON THIS SHEET, IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

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Professional Engineer 001632
www.hanson-inc.com
314.770.0467

TEMPORARY TRAFFIC CONTROL (FOR INFORMATIONAL PURPOSES) (CONT.)

SHEET NO.	TRAFFIC CONTROL SHEET NO.	STATION FROM	STATION TO	ROADWAY	CENTER LINE	LOCATION	PHASE 1							PHASE 2							PHASE 3							PHASE 4						
							* 4 IN TEMPORARY PAVEMENT MARKING PAINT (SOLID WHITE)	* 4 IN TEMPORARY PAVEMENT MARKING PAINT (SOLID YELLOW)	* 4 IN TEMPORARY PAVEMENT MARKING PAINT (SOLID DUAL YELLOW)	* TEMPORARY REMOVABLE MARKING TAPE, 24 IN., WHITE	** CHANNELIZER (TRIM-LINE)	* PAVEMENT MARKING REMOVAL	* PAVEMENT MARKING REMOVAL (SYMBOL)	* 4 IN TEMPORARY PAVEMENT MARKING PAINT (SOLID WHITE)	* 4 IN TEMPORARY PAVEMENT MARKING PAINT (SOLID YELLOW)	* 4 IN TEMPORARY PAVEMENT MARKING PAINT (SOLID DUAL YELLOW)	* TEMPORARY REMOVABLE MARKING TAPE, 24 IN., WHITE	** CHANNELIZER (TRIM-LINE)	* PAVEMENT MARKING REMOVAL	* PAVEMENT MARKING REMOVAL (SYMBOL)	* 4 IN TEMPORARY PAVEMENT MARKING PAINT (SOLID WHITE)	* 4 IN TEMPORARY PAVEMENT MARKING PAINT (SOLID YELLOW)	* 4 IN TEMPORARY PAVEMENT MARKING PAINT (SOLID DUAL YELLOW)	* TEMPORARY REMOVABLE MARKING TAPE, 24 IN., WHITE	** CHANNELIZER (TRIM-LINE)	* PAVEMENT MARKING REMOVAL	* PAVEMENT MARKING REMOVAL (SYMBOL)	* 4 IN TEMPORARY PAVEMENT MARKING PAINT (SOLID WHITE)	* 4 IN TEMPORARY PAVEMENT MARKING PAINT (SOLID YELLOW)	* 4 IN TEMPORARY PAVEMENT MARKING PAINT (SOLID DUAL YELLOW)	* TEMPORARY REMOVABLE MARKING TAPE, 24 IN., WHITE	** CHANNELIZER (TRIM-LINE)	* PAVEMENT MARKING REMOVAL	* PAVEMENT MARKING REMOVAL (SYMBOL)
							(LF)	(LF)	(LF)	(LF)	(EA)	(LF)	(EA)	(LF)	(LF)	(LF)	(LF)	(EA)	(LF)	(EA)	(LF)	(LF)	(LF)	(LF)	(EA)	(LF)	(EA)	(LF)	(LF)	(LF)	(LF)	(EA)	(LF)	(EA)
234-236	29-31 OF 53	108+45.00	142+75.00	RTE 231/BROADWAY		RT	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3,430	-	-	-	-	-	-	-	-	-	-	-	-	-
234-236	29-31 OF 53	108+45.00	142+75.00	RTE 231/BROADWAY		LT	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3,430	-	-	-	-	-	-	-	-	-	-	-	-	-
234-236	29-31 OF 53	108+45.00	142+75.00	RTE 231/BROADWAY		CENTER	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3,430	-	-	-	-	-	-	-	-	-	-	-
236	31 OF 53	142+75.00	-	RTE 231/BROADWAY		RT	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	10	-	-	-	-	-	-	-	-	-	-
242-243	37-38 OF 53	111+32.00	135+71.00	RTE 231/BROADWAY		RT	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2,439	-	-	-	-	-	-
242-243	37-38 OF 53	111+32.00	134+84.00	RTE 231/BROADWAY		LT	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2,352	-	-	-	-	-	-
242-243	37-38 OF 53	111+32.00	126+89.00	RTE 231/BROADWAY		RT	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	63	-	-
242-243	37-38 OF 53	111+32.00	126+89.00	RTE 231/BROADWAY		LT	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	63	-	-
243	38 OF 53	126+89.00	133+10.00	RTE 231/BROADWAY		CENTER	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	621	-		-	-
243	38 OF 53	128+76.00	133+10.00	RTE 231/BROADWAY		LT	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	18	-	-
243	38 OF 53	133+10.00	135+71.00	RTE 231/BROADWAY		CENTER	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	261	-	-	-	-	-	-	-
243	38 OF 53	133+10.00	135+71.00	RTE 231/BROADWAY		CENTER	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	261	-	-	-	-	-	-	-
221	16 OF 53	143+78.00	-	RTE 231/BROADWAY		LT	-	-	-	-	-	12	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
221	16 OF 53	143+78.00	-	RTE 231/BROADWAY		LT	-	-	-	-	-	12	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
221	16 OF 53	143+78.00	166+73.00	RTE 231/BROADWAY		LT	-	-	-	-	-	2,295	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
221	16 OF 53	143+78.00	145+36.00	RTE 231/BROADWAY		LT	-	-	-	-	-	158	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
221	16 OF 53	143+78.00	166+73.00	RTE 231/BROADWAY		LT	-	-	-	-	-	2,295	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
221	16 OF 53	143+78.00	145+36.00	RTE 231/BROADWAY		LT	-	-	-	-	-	158	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
221	16 OF 53	143+78.00	145+36.00	RTE 231/BROADWAY		LT	-	-	-	-	-	158	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
221	16 OF 53	143+78.00	166+73.00	RTE 231/BROADWAY		RT	-	-	-	-	-	2,295	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
221	16 OF 53	143+78.00	166+80.27	RTE 231/BROADWAY		LT	-	-	-	-	93	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
221	16 OF 53	143+90.00	-	RTE 231/BROADWAY		LT	-	-	-	-	-	12	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
221	16 OF 53	143+90.00	145+36.00	RTE 231/BROADWAY	RTE 231	CENTER	-	-	-	-	-	146	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
221	16 OF 53	143+91.00	166+75.00	RTE 231/BROADWAY		LT	2,284	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
221	16 OF 53	143+91.00	166+75.00	RTE 231/BROADWAY		RT	2,284	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
221	16 OF 53	143+91.00	166+75.00	RTE 231/BROADWAY		CENTER	-	-	2,284	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
221	16 OF 53	143+91.00	-	RTE 231/BROADWAY		LT	-	-	-	12	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
221	16 OF 53	144+46.00	-	RTE 231/BROADWAY		LT	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
221	16 OF 53	144+58.00	-	RTE 231/BROADWAY		CENTER	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
221	16 OF 53	145+23.00	-	RTE 231/BROADWAY		CENTER	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
221	16 OF 53	145+24.00	-	RTE 231/BROADWAY		LT	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
221	16 OF 53	145+36.00	149+78.00	RTE 231/BROADWAY		LT	-	-	-	-	-	442	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
221	16 OF 53	145+36.00	166+73.00	RTE 231/BROADWAY		CENTER	-	-	-	-	-	2,137	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
221	16 OF 53	143+90.00	164+65.00	RTE 231/BROADWAY		CENTER	-	-	-	-	-	2,075	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
221	16 OF 53	148+02.00	-	RTE 231/BROADWAY		CENTER	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
221	16 OF 53	148+25.00	-	RTE 231/BROADWAY		CENTER	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
221	16 OF 53	151+93.00	-	RTE 231/BROADWAY		CENTER	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
221	16 OF 53	152+18.00	-	RTE 231/BROADWAY		CENTER	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
221	16 OF 53	156+58.00	-	RTE 231/BROADWAY		CENTER	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
221	16 OF 53	156+92.00	-	RTE 231/BROADWAY		CENTER	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
221	16 OF 53	162+21.00	-	RTE 231/BROADWAY		CENTER	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
221	16 OF 53	162+44.00	-	RTE 231/BROADWAY		CENTER	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TABLE 6 SUBTOTAL							4,568	-	2,284	12	93	9,742	12	-	-	-	-	-	-	-	6,860	-	3,430	10	-	-	-	4,791	522	621	-	144	-	-

✳ PAID FOR AS MISC. {TEMPORARY PAVEMENT MARKING PAINT} LUMP SUM
✳✳ PAID FOR AS MISC. {TEMPORARY TRAFFIC CONTROL} LUMP SUM SEE SHEET 106 OF 106

LAYOUT	NS	01/2025
DRAWN	SMC	01/2025
REVIEWED	DJK	01/2025

SUMMARY OF QUANTITIES
SHEET 75 OF 106

STATE OF MISSOURI
DENNIS J KOSCIELSKI
NUMBER PE-2005000712
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED 7/25/2025

ROUTE	STATE
231	MO
DISTRICT	SHEET NO.
SL	3

COUNTY: ST. LOUIS
JOB NO.: J6S3631
CONTRACT ID.:
PROJECT NO.:
BRIDGE NO.:

DESCRIPTION | DATE

IF A SEAL IS PRESENT ON THIS SHEET, IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

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Hanson Professional Services Inc.
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St. Louis, Missouri 63101
Professional Engineer 001632
www.hansonprofessionalservices.com
314.770.0467

TEMPORARY TRAFFIC CONTROL (FOR INFORMATIONAL PURPOSES ONLY) (CONT.)

SHEET NO.	TRAFFIC CONTROL SHEET NO.	STATION FROM	STATION TO	ROADWAY	CENTER LINE	LOCATION	PHASE 1							PHASE 2							PHASE 3							PHASE 4						
							* 4 IN TEMPORARY PAVEMENT MARKING PAINT (SOLID WHITE)	* 4 IN TEMPORARY PAVEMENT MARKING PAINT (SOLID YELLOW)	* 4 IN TEMPORARY PAVEMENT MARKING PAINT (SOLID DUAL YELLOW)	* TEMPORARY REMOVABLE MARKING TAPE, 24 IN., WHITE	** CHANNELIZER (TRIM-LINE)	* PAVEMENT MARKING REMOVAL	* PAVEMENT MARKING REMOVAL (SYMBOL)	* 4 IN TEMPORARY PAVEMENT MARKING PAINT (SOLID WHITE)	* 4 IN TEMPORARY PAVEMENT MARKING PAINT (SOLID YELLOW)	* 4 IN TEMPORARY PAVEMENT MARKING PAINT (SOLID DUAL YELLOW)	* TEMPORARY REMOVABLE MARKING TAPE, 24 IN., WHITE	** CHANNELIZER (TRIM-LINE)	* PAVEMENT MARKING REMOVAL	* PAVEMENT MARKING REMOVAL (SYMBOL)	* 4 IN TEMPORARY PAVEMENT MARKING PAINT (SOLID WHITE)	* 4 IN TEMPORARY PAVEMENT MARKING PAINT (SOLID YELLOW)	* 4 IN TEMPORARY PAVEMENT MARKING PAINT (SOLID DUAL YELLOW)	* TEMPORARY REMOVABLE MARKING TAPE, 24 IN., WHITE	** CHANNELIZER (TRIM-LINE)	* PAVEMENT MARKING REMOVAL	* PAVEMENT MARKING REMOVAL (SYMBOL)	* 4 IN TEMPORARY PAVEMENT MARKING PAINT (SOLID WHITE)	* 4 IN TEMPORARY PAVEMENT MARKING PAINT (SOLID YELLOW)	* 4 IN TEMPORARY PAVEMENT MARKING PAINT (SOLID DUAL YELLOW)	* TEMPORARY REMOVABLE MARKING TAPE, 24 IN., WHITE	** CHANNELIZER (TRIM-LINE)	* PAVEMENT MARKING REMOVAL	* PAVEMENT MARKING REMOVAL (SYMBOL)
							(LF)	(LF)	(LF)	(LF)	(EA)	(LF)	(EA)	(LF)	(LF)	(LF)	(LF)	(EA)	(LF)	(EA)	(LF)	(LF)	(LF)	(LF)	(EA)	(LF)	(EA)	(LF)	(LF)	(LF)	(LF)	(EA)	(LF)	(EA)
221	16 OF 53	165+25.00	166+73.00	RTE 231/BROADWAY	RTE 231	RT	-	-	-	-	-	148	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
221	16 OF 53	165+30.00	-	RTE 231/BROADWAY		RT	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
221	16 OF 53	166+01.00	-	RTE 231/BROADWAY		RT	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
221	16 OF 53	166+73.00	-	RTE 231/BROADWAY		RT	-	-	-	-	-	12	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
221	16 OF 53	166+73.00	-	RTE 231/BROADWAY		RT	-	-	-	-	-	12	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
221	16 OF 53	166+75.00	-	RTE 231/BROADWAY		RT	-	-	-	11	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
228-229	23-24 OF 53	142+93.62	166+80.27	RTE 231/BROADWAY		LT	-	-	-	-	-	-	-	2,387	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
228-229	23-24 OF 53	142+93.62	166+80.27	RTE 231/BROADWAY		RT	-	-	-	-	-	-	-	2,387	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
228-229	23-24 OF 53	142+93.62	166+80.27	RTE 231/BROADWAY		CENTER	-	-	-	-	-	-	-	-	-	2,387	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
228-229	23-24 OF 53	142+93.62	166+80.27	RTE 231/BROADWAY		LT	-	-	-	-	-	-	-	-	-	-	-	96	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
229	24 OF 53	166+80.27	-	RTE 231/BROADWAY		RT	-	-	-	-	-	-	-	-	-	-	10	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
236-237	31-32 OF 53	142+90.23	168+15.00	RTE 231/BROADWAY		LT	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2,525	-	-	-	-	-	-	-	-	-	-	-	-	-	-
236-237	31-32 OF 53	142+90.23	168+15.00	RTE 231/BROADWAY		RT	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2,525	-	-	-	-	-	-	-	-	-	-	-	-	-	-
236-237	31-32 OF 53	142+90.23	168+15.00	RTE 231/BROADWAY		CENTER	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2,525	-	-	-	-	-	-	-	-	-	-	-	-
236-237	31-32 OF 53	142+90.23	168+15.00	RTE 231/BROADWAY		RT	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	101	-	-	-	-	-	-	-	-	-	-
236-237	31-32 OF 53	167+97.00	168+15.00	RTE 231/BROADWAY		RT	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	18	-	-	-	-	-	-	-	-	-
236-237	31-32 OF 53	167+97.00	168+15.00	RTE 231/BROADWAY		LT	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	18	-	-	-	-	-	-	-	-	-
236-237	31-32 OF 53	167+97.00	168+15.00	RTE 231/BROADWAY		LT	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	18	-	-	-	-	-	-	-	-	-
236-237	31-32 OF 53	167+97.00	168+15.00	RTE 231/BROADWAY		LT	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	18	-	-	-	-	-	-	-	-	-
236-237	31-32 OF 53	167+97.00	-	RTE 231/BROADWAY		LT	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	12	-	-	-	-	-	-	-	-	-
236-237	31-32 OF 53	167+97.00	-	RTE 231/BROADWAY		LT	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	12	-	-	-	-	-	-	-	-	-
236-237	31-32 OF 53	168+03.00	-	RTE 231/BROADWAY		CENTER	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	12	-	-	-	-	-	-	-	-	-
236-237	31-32 OF 53	168+03.00	168+15.00	RTE 231/BROADWAY		CENTER	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	12	-	-	-	-	-	-	-	-	-
TABLE 7 SUBTOTAL							-	-	-	11	-	172	2	4,773	-	2,387	10	96	-	-	5,050	-	2,525	-	101	120	-	-	-	-	-	-	-	-	-
TABLE 1 SUBTOTAL							-	-	-	-	-	-	-	7,546	1,703	3,217	22	132	21,630	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TABLE 2 SUBTOTAL							-	-	-	-	-	-	-	-	-	84	11	-	124	1	7,694	1,580	3,283	33	138	-	-	12,876	-	-	-	244	2,813	-
TABLE 3 SUBTOTAL							3,280	-	309	-	26	-	-	10,312	-	5,156	11	207	22,754	1	10,270	-	5,135	11	206	-	-	13,120	188	-	-	292	438	1
TABLE 4 SUBTOTAL							6,860	-	4,389	24	177	15,088	12	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TABLE 5 SUBTOTAL							9,824	-	4,540	78	200	243	4	8,481	-	4,241	-	174	-	-	1,566	-	783	20	173	-	-	-	-	-	-	-	-	-	-
TABLE 6 SUBTOTAL							4,568	-	2,284	12	93	9,742	12	-	-	-	-	-	-	-	6,860	-	3,430	10	-	-	-	4,791	522	621	-	144	-	-
TABLE 7 SUBTOTAL							-	-	-	11	-	172	2	4,773	-	2,387	10	96	-	-	5,050	-	2,525	-	101	120	-	-	-	-	-	-	-	-	-
TOTAL							24,532	-	11,522	125	496	25,245	30	31,113	1,703	15,085	54	609	44,508	5	31,440	1,580	15,155	74	618	120	-	30,787	710	621	-	680	3,251	1

MISC. {TEMPORARY PAVEMENT MARKING PAINT}	
PAY TOTAL	**1 LUMP SUM**

✳ PAID FOR AS MISC. {TEMPORARY PAVEMENT MARKING PAINT} LUMP SUM
✳✳ PAID FOR AS MISC. {TEMPORARY TRAFFIC CONTROL} LUMP SUM SEE SHEET 106 OF 106

SUMMARY OF QUANTITIES
SHEET 76 OF 106

LAYOUT	NS	01/2025
DRAWN	SMC	01/2025
REVIEWED	DJK	01/2025

STATE OF MISSOURI
DENNIS J KOSCIELSKI
NUMBER PE-2005000712
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED
7/25/2025

ROUTE	STATE
231	MO
DISTRICT	SHEET NO.
SL	3

COUNTY
ST. LOUIS

JOB NO.
J6S3631

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION	DATE

IF A SEAL IS PRESENT ON THIS SHEET, IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

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St. Louis, Missouri 63101
Professional Engineer 001632
www.hanson-inc.com
314.770.0467

POT HOLING

LOCATION	MISC. {POT HOLING FOR UTILITY FACILITIES} (EA)	REMARKS
LOCATION 1	1	DRAINAGE STRUCTURE 1-8 GT
LOCATION 2	1	PIPE RUN 1-6 MH TO 1-7 EX AI
LOCATION 3	1	DRAINAGE STRUCTURE 1-10 GT
LOCATION 4	1	DRAINAGE STRUCTURE 2-8 GI
LOCATION 5	1	PIPE RUN 2-8 GI TO 2-3 EX GI
LOCATION 6	1	DRAINAGE STRUCTURE 2-11 GT
LOCATION 7	1	DRAINAGE STRUCTURE 2-9 GT
LOCATION 8	1	PIPE RUN 2-4 MH TO 2-12 HEADWALL
LOCATION 9	1	PIPE RUN 2-2-MH TO 2-3 EX GI
LOCATION 10	1	PIPE RUN 2-5 D TO 2-1 MH
LOCATION 11	1	DRAINAGE STRUCTURE 10-5 GT
LOCATION 12	1	PIPE RUN 10-3 MH TO 10-1 MH
LOCATION 13	1	PIPE RUN 4-1 MH TO 4-4 D
LOCATION 14	1	PIPE RUN 6-14 CI TO 6-1 MH
LOCATION 15	1	PIPE RUN 1-11 FES TO 1-12 FES
LOCATION 16	1	DRAINAGE STRUCTURE 18-7 PD
LOCATION 17	1	DRAINAGE STRUCTURE 18-8 PD
LOCATION 18	1	DRAINAGE STRUCTURE 18-9B
LOCATION 19	1	DRAINAGE STRUCTURE 21-3A GT
LOCATION 20	1	PIPE RUN 21-3B TO MSD#27G4-010D
LOCATION 21	1	PIPE RUN 21-1MH TO MSD# 27G4-117D
LOCATION 22	1	SIGNAL FOUNDATION
LOCATION 23	1	SIGNAL FOUNDATION
LOCATION 24	1	SIGNAL FOUNDATION
LOCATION 25	1	SIGNAL FOUNDATION
LOCATION 26	1	SIGNAL FOUNDATION
LOCATION 27	1	SIGNAL FOUNDATION
LOCATION 28	1	SIGNAL FOUNDATION
LOCATION 29	1	SIGNAL FOUNDATION
LOCATION 30	1	SIGNAL FOUNDATION
LOCATION 31	1	SIGNAL FOUNDATION
LOCATION 32	1	SIGNAL FOUNDATION
LOCATION 33	1	LIGHT POLE FOUNDATION
LOCATION 34	1	LIGHT POLE FOUNDATION
LOCATION 35	1	LIGHT POLE FOUNDATION
LOCATION 36	1	LIGHT POLE FOUNDATION
LOCATION 37	1	LIGHT POLE FOUNDATION
LOCATION 38	1	LIGHT POLE FOUNDATION
LOCATION 39	1	LIGHT POLE FOUNDATION
LOCATION 40	1	LIGHT POLE FOUNDATION
LOCATION 41	1	LIGHT POLE FOUNDATION
LOCATION 42	1	RRFB FOUNDATION
LOCATION 43	1	RRFB FOUNDATION
LOCATION 44	1	TO PROVIDE VISUAL VERIFICATION OF THE HORIZONTAL AND VERTICAL PROXIMITY OF UTILITY FACILITIES AT LOCATIONS REQUIRING EXCAVATION AS DIRECTED BY THE ENGINEER
LOCATION 45	1	
LOCATION 46	1	
LOCATION 47	1	
LOCATION 48	1	
LOCATION 49	1	
LOCATION 50	1	
TOTAL	50	ALL POT HOLE LOCATIONS SHALL BE APPROVED BY THE ENGINEER PRIOR TO BEGINNING INVESTIGATION, SEE JSP
PAY TOTAL	**50**	-

GUARDRAIL AND CRASHWORTHY END TERMINALS

SHEET NO.	PLAN SHEET NO.	FROM STATION	TO STATION	ROADWAY	CENTER LINE	LOCATION	MGS END ANCHOR (EA)	MGS GUARDRAIL (LF)	TYPE A CRASHWORTHY END TERMINAL (MASH) (EA)	LINEAR GRADING CLASS 2 (STA)	REMARKS
28	25 of 31	137+56.47	138+40.43	RTE 231/TELEGRAPH	RTE 231	LT	-	84	-	1.50	-
28	25 of 31	137+56.47	-	RTE 231/TELEGRAPH	RTE 232	LT	1	-	-	-	CRASHWORTHY END TERMINAL FOR NB TRAFFIC
28	25 of 31	138.40.43	-	RTE 231/TELEGRAPH	RTE 233	LT	-	-	1	-	CRASHWORTHY END TERMINAL FOR SB TRAFFIC
						TOTAL	1	84	1	1.50	-
						PAY TOTAL	**1**	**84**	**1**	**SEE SHEET 83 OF 106**	-

LANDSCAPE RESTORATION

LOCATION	MISC. {LANDSCAPING RESTORATION} (SY)	REMARKS
LOCATION 1	33.3	LOCATION PER DIRECTION OF THE ENGINEER
LOCATION 2	33.3	LOCATION PER DIRECTION OF THE ENGINEER
LOCATION 3	33.3	LOCATION PER DIRECTION OF THE ENGINEER
TOTAL	100.0	-
PAY TOTAL	**100.0**	**-**

SUMMARY OF QUANTITIES
SHEET 77 OF 106

STATE OF MISSOURI
DENNIS J KOSCIELSKI
NUMBER PE-2005000712
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED 7/25/2025
ROUTE 231 | STATE MO
DISTRICT SL | SHEET NO. 3
COUNTY ST. LOUIS
JOB NO. J6S3631
CONTRACT ID.
PROJECT NO.
BRIDGE NO.

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

DESCRIPTION	DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

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St. Louis, Missouri 63101
Professional Engineer 001632
www.hanson-inc.com
314.770.0467

LAYOUT	NS	01/2025
DRAWN	SMC	01/2025
REVIEWED	DJK	01/2025

FENCING AND GATES

SHEET NO.	SPECIAL CURB DESIGN SHEET NO.	FROM STATION	TO STATION	ROADWAY	CENTER LINE	LOCATION	LENGTH (LF)	OFFSET 1 (LF)	OFFSET 2 (LF)	APPROX. FENCE HEIGHT (IN)	CHAIN-LINK FENCE (48 IN.) (LF)	CHAIN-LINK FENCE (72 IN.) (LF)	MISC. {DECORATIVE FENCE} (LF)	MISC. {WOOD FENCE (48 IN.)} (LF)	FENCE COLOR	GATE COLOR	DRIVE GATE (CHAIN-LINK) (EA)	DRIVE GATE HEIGHT (IN)	MISC. {WALK GATE (WOOD)} (EA)	WALK GATE (CHAIN-LINK) (EA)	WALK GATE HEIGHT (IN)	MISC. {TEMPORARY FENCE} (LF)	REMARKS
468	2 OF 32	21+27.74	21+47.86	RTE 231/TELEGRAPH	RTE 231	RT	20.2	39.5	-	24.0	-	-	21.0	-	WHITE	-	-	-	-	-	-	-	WHITE DOUBLE CHAIN-LINK FENCE MATCHING EXISTING FENCE HEIGHT
468	2 OF 32	21+52.32	21+89.86	RTE 231/TELEGRAPH	RTE 231	RT	37.6	39.7	-	24.0	-	-	38.0	-	WHITE	-	-	-	-	-	-	-	WHITE DOUBLE CHAIN-LINK FENCE MATCHING EXISTING FENCE HEIGHT
468	2 OF 32	21+89.86	22+31.62	RTE 231/TELEGRAPH	RTE 231	RT	41.8	38.1	-	60.0	42.0	-	-	-	SILVER	-	-	-	-	-	-	-	SILVER CHAIN-LINK FENCE MATCHING EXISTING FENCE HEIGHT
468	2 OF 32	21+89.86	22+09.31	RTE 231/TELEGRAPH	RTE 231	RT	19.5	39.5	-	60.0	20.0	-	-	-	SILVER	-	-	-	-	-	-	-	SILVER CHAIN-LINK FENCE MATCHING EXISTING FENCE HEIGHT
468	2 OF 32	22+19.93	22+25.43	RTE 231/TELEGRAPH	RTE 231	RT	5.5	39.5	-	60.0	-	-	-	-	-	SILVER	-	-	-	2	60.0	-	SILVER CHAIN-LINK WALK GATE MATCHING EXISTING FENCE HEIGHT
468	2 OF 32	22+09.31	22+09.31	RTE 231/TELEGRAPH	RTE 231	RT	10.0	39.5	49.5	60.0	10.0	-	-	-	SILVER	-	-	-	-	-	-	-	SILVER CHAIN-LINK FENCE MATCHING EXISTING FENCE HEIGHT
468	2 OF 32	22+09.31	22+31.85	RTE 231/TELEGRAPH	RTE 231	RT	22.6	49.5	-	60.0	23.0	-	-	-	SILVER	-	-	-	-	-	-	-	SILVER CHAIN-LINK FENCE MATCHING EXISTING FENCE HEIGHT
468	2 OF 32	22+43.47	22+59.69	RTE 231/TELEGRAPH	RTE 231	RT	16.3	39.6	-	60.0	-	-	-	17.0	BROWN	-	-	-	-	-	-	26.0	BROWN WOODEN FENCE MATCHING EXISTING FENCE HEIGHT
468-469	2-3 OF 32	22+43.47	22+81.56	RTE 231/TELEGRAPH	RTE 231	RT	38.1	38.2	-	60.0	-	-	-	39.0	BROWN	-	-	-	2	-	60.0	59.0	BROWN WOODEN FENCE MATCHING EXISTING FENCE HEIGHT
468	2 OF 32	22+59.69	22+59.69	RTE 231/TELEGRAPH	RTE 231	RT	10.0	39.6	49.6	60.0	-	-	-	10.0	BROWN	-	-	-	-	-	-	15.0	BROWN WOODEN FENCE MATCHING EXISTING FENCE HEIGHT
468-469	2-3 OF 32	22+59.69	22+81.56	RTE 231/TELEGRAPH	RTE 231	RT	21.9	49.6	-	60.0	-	-	-	22.0	BROWN	-	-	-	-	-	-	33.0	BROWN WOODEN FENCE MATCHING EXISTING FENCE HEIGHT
481	15 OF 32	84+79.02	85+58.91	RTE 231/KINGSTON	RTE 231	LT	79.9	49.2	-	24.0	-	-	80.0	-	BROWN	-	-	-	-	-	-	-	BROWN SINGLE CHAIN-LINK FENCE MATCHING EXISTING FENCE HEIGHT
486	20 OF 32	145+62.69	145+69.65	VIEHL	VIEHL	LT	7.0	22.7	-	36.0	7.0	-	-	-	SILVER	-	-	-	-	-	-	-	SILVER CHAIN-LINK FENCE MATCHING EXISTING FENCE HEIGHT
486-487	20-21 OF 32	113+83.73	114+51.20	RTE 231/BROADWAY	RTE 231	LT	67.5	30.5	-	36.0	68.0	-	-	-	SILVER	-	-	-	-	-	-	-	SILVER CHAIN-LINK FENCE MATCHING EXISTING FENCE HEIGHT
486	20 OF 32	113+96.56	114+02.00	RTE 231/BROADWAY	RTE 231	LT	5.5	30.5	-	36.0	-	-	-	-	-	SILVER	-	-	-	1	36.0	-	SILVER CHAIN-LINK WALK GATE MATCHING EXISTING FENCE HEIGHT
486	20 OF 32	114+13.17	114+23.23	RTE 231/BROADWAY	RTE 231	LT	10.1	30.5	-	36.0	-	-	-	-	-	SILVER	2	36.0	-	-	-	-	SILVER CHAIN-LINK DRIVE GATE MATCHING EXISTING FENCE HEIGHT
487	21 OF 32	118+36.19	118+84.27	RTE 231/BROADWAY	RTE 231	RT	48.1	38.3	-	84.0	-	49.0	-	-	BLACK	-	-	-	-	-	-	-	BLACK CHAIN-LINK FENCE MATCHING EXISTING FENCE HEIGHT
487	21 OF 32	160+37.97	160+50.78	E FELTON	E FELTON	RT	12.9	28.3	-	84.0	-	13.0	-	-	BLACK	-	-	-	-	-	-	-	BLACK CHAIN-LINK FENCE MATCHING EXISTING FENCE HEIGHT
491	25 OF 32	225+34.44	225+76.08	VINCENT	VINCENT	LT	41.7	21.2	-	84.0	42.0	-	-	-	SILVER	-	-	-	-	-	-	-	SILVER CHAIN-LINK FENCE MATCHING EXISTING FENCE HEIGHT
491	25 OF 32	137+47.65	139+21.48	RTE 231/BROADWAY	RTE 231	LT	173.9	31.1	-	84.0	174.0	-	-	-	SILVER	-	-	-	-	-	-	-	SILVER CHAIN-LINK FENCE MATCHING EXISTING FENCE HEIGHT
496	30 OF 32	164+29.98	164+66.64	RTE 231/BROADWAY	RTE 231	LT	36.7	28.8	-	72.0	-	-	-	-	-	BLACK	1	72.0	-	-	-	-	BLACK CHAIN-LINK DRIVE GATE MATCHING EXISTING FENCE HEIGHT
										TOTAL	386.0	62.0	139.0	88.0	-	-	3	-	2	3	-	133	-
										PAY TOTAL	**386**	**62**	**139**	**88**	**-**	**-**	**3**	**-**	**2**	**3**	**-**	**133**	-

SUMMARY OF QUANTITIES
SHEET 78 OF 106

LAYOUT	NS	01/2025
DRAWN	SMC	01/2025
REVIEWED	DJK	01/2025

STATE OF MISSOURI
DENNIS J KOSCIELSKI
NUMBER PE-2005000712
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED 7/25/2025

ROUTE	STATE
231	MO
DISTRICT	SHEET NO.
SL	3

COUNTY ST. LOUIS
JOB NO. J6S3631
CONTRACT ID.
PROJECT NO.
BRIDGE NO.

DESCRIPTION	DATE

IF A SEAL IS PRESENT ON THIS SHEET, IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

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HANSON
Hanson Professional Services Inc.
600 Washington Ave., Suite 950
St. Louis, Missouri 63101
Professional Engineer 001632
www.hanson-inc.com
314.770.0467

MEDIAN QUANTITIES

SHEET NO.	PLAN SHEET NO.	ROADWAY	CENTER LINE	STATION FROM	STATION TO	LOCATION	LENGTH (LF)	WIDTH (LF)	AREA OF CONCRETE MEDIAN STRIP (SF)	6 IN. CONCRETE MEDIAN STRIP (SY)	MISC. { 18 IN. WHITE ISLAND TUBULAR MARKER (EA)	MISC. {18 IN. YELLOW ISLAND TUBULAR MARKER (EA)	36 IN. SURFACE-MOUNT DELINEATOR POST (SEE NOTE 1) (EA)	REMARKS
5	2 OF 31	RTE 231/TELEGRAPH	RTE 231	20+04.51	20+16.51	CENTER	12.00	8.00	96.00	10.70	-	10.00	-	MEDIAN ISLAND WITH 2 NOSES FACING TRAFFIC
5	2 OF 31	RTE 231/TELEGRAPH	RTE 231	20+25.51	20+37.51	CENTER	12.00	8.00	96.00	10.70	-	10.00	-	MEDIAN ISLAND WITH 2 NOSES FACING TRAFFIC
10	7 OF 31	RTE 231/TELEGRAPH	RTE 231	46+67.42	46+77.42	CENTER	10.00	6.00	60.00	6.70	-	10.00	-	MEDIAN ISLAND WITH 2 NOSES FACING TRAFFIC
10	7 OF 31	RTE 231/TELEGRAPH	RTE 231	46+83.43	46+91.59	CENTER	8.20	5.50	45.10	5.10	-	10.00	-	MEDIAN ISLAND WITH 2 NOSES FACING TRAFFIC
10	7 OF 31	RTE 231/TELEGRAPH	RTE 231	47+18.82	47+89.95	CENTER	71.20	17.50	1,246.00	138.50	-	10.00	-	MEDIAN ISLAND WITH 2 NOSES FACING TRAFFIC
10	7 OF 31	TELEGRAPH	TELEGRAPH	51+02.35	51+87.64	CENTER	85.30	2.00	170.60	19.00	-	10.00	-	MEDIAN ISLAND WITH 2 NOSES FACING TRAFFIC
10	7 OF 31	RTE 231/TELEGRAPH	RTE 231	48+08.48	48+17.73	CENTER	9.30	17.50	162.80	18.10	-	10.00	-	MEDIAN ISLAND WITH 2 NOSES FACING TRAFFIC
10	7 OF 31	RTE 231/TELEGRAPH	RTE 231	48+23.73	48+41.23	CENTER	17.50	17.50	306.30	34.10	-	10.00	-	MEDIAN ISLAND WITH 2 NOSES FACING TRAFFIC
15	12 OF 31	RTE 231/KINGSTON	RTE 231	71+05.69	71+19.69	CENTER	14.00	8.00	112.00	12.50	-	10.00	-	MEDIAN ISLAND WITH 2 NOSES FACING TRAFFIC
15	12 OF 31	RTE 231/KINGSTON	RTE 231	71+15.69	71+19.69	LEFT	4.00	6.00	24.00	2.70	5.00	-	-	SHOULDER ISLAND WITH 1 NOSE FACING TRAFFIC
15	12 OF 31	RTE 231/KINGSTON	RTE 231	71+28.69	71+44.69	LEFT	16.00	6.00	96.00	10.70	5.00	-	-	SHOULDER ISLAND WITH 1 NOSE FACING TRAFFIC
15	12 OF 31	RTE 231/KINGSTON	RTE 231	71+28.69	71+42.69	CENTER	14.00	8.00	112.00	12.50	-	10.00	-	MEDIAN ISLAND WITH 2 NOSES FACING TRAFFIC
19	16 OF 31	RTE 231/KINGSTON	RTE 231	89+36.79	89+52.79	RIGHT	16.00	5.50	88.00	9.80	5.00	-	-	SHOULDER ISLAND WITH 1 NOSE FACING TRAFFIC
19	16 OF 31	RTE 231/KINGSTON	RTE 231	89+38.79	89+52.79	CENTER	14.00	8.00	112.00	12.50	-	10.00	-	MEDIAN ISLAND WITH 2 NOSES FACING TRAFFIC
19	16 OF 31	RTE 231/KINGSTON	RTE 231	89+48.79	89+52.79	LEFT	4.00	6.00	24.00	2.70	5.00	-	-	SHOULDER ISLAND WITH 1 NOSE FACING TRAFFIC
19	16 OF 31	RTE 231/KINGSTON	RTE 231	89+61.79	89+65.79	RIGHT	4.00	5.50	22.00	2.50	5.00	-	-	SHOULDER ISLAND WITH 1 NOSE FACING TRAFFIC
19	16 OF 31	RTE 231/KINGSTON	RTE 231	89+61.79	89+75.79	CENTER	14.00	8.00	112.00	12.50	-	10.00	-	MEDIAN ISLAND WITH 2 NOSES FACING TRAFFIC
19	16 OF 31	RTE 231/KINGSTON	RTE 231	89+61.79	89+77.79	LEFT	16.00	6.00	96.00	10.70	5.00	-	-	SHOULDER ISLAND WITH 1 NOSE FACING TRAFFIC
24	21 OF 31	RTE 231/S BROADWAY	RTE 231	116+62.53	116+99.63	RIGHT	37.10	7.50	278.30	31.00	5.00	-	-	SHOULDER ISLAND WITH 1 NOSE FACING TRAFFIC
24	21 OF 31	RTE 231/S BROADWAY	RTE 231	116+91.63	116+99.63	LEFT	8.00	7.50	60.00	6.70	5.00	-	-	SHOULDER ISLAND WITH 1 NOSE FACING TRAFFIC
24	21 OF 31	RTE 231/S BROADWAY	RTE 231	117+08.63	117+12.63	RIGHT	4.00	7.50	30.00	3.40	5.00	-	-	SHOULDER ISLAND WITH 1 NOSE FACING TRAFFIC
24	21 OF 31	RTE 231/S BROADWAY	RTE 231	117+08.63	117+18.69	LEFT	10.10	7.50	75.80	8.50	5.00	-	-	SHOULDER ISLAND WITH 1 NOSE FACING TRAFFIC
26	23 OF 31	RTE 231/S BROADWAY	RTE 231	125+63.05	125+75.77	RIGHT	12.80	7.50	96.00	10.70	5.00	-	-	SHOULDER ISLAND WITH 1 NOSE FACING TRAFFIC
26	23 OF 31	RTE 231/S BROADWAY	RTE 231	125+71.77	125+75.77	LEFT	4.00	7.50	30.00	3.40	5.00	-	-	SHOULDER ISLAND WITH 1 NOSE FACING TRAFFIC
26	23 OF 31	RTE 231/S BROADWAY	RTE 231	125+84.77	125+88.77	RIGHT	4.00	7.50	30.00	3.40	5.00	-	-	SHOULDER ISLAND WITH 1 NOSE FACING TRAFFIC
26	23 OF 31	RTE 231/S BROADWAY	RTE 231	125+84.77	125+94.58	LEFT	9.90	7.50	74.30	8.30	5.00	-	-	SHOULDER ISLAND WITH 1 NOSE FACING TRAFFIC
27	24 OF 31	RTE 231/S BROADWAY	RTE 231	130+76.36	130+80.36	LEFT	4.00	7.00	28.00	3.20	5.00	-	-	SHOULDER ISLAND WITH 1 NOSE FACING TRAFFIC
27	24 OF 31	RTE 231/S BROADWAY	RTE 231	130+89.36	131+09.98	LEFT	20.70	7.00	144.90	16.10	5.00	-	-	SHOULDER ISLAND WITH 1 NOSE FACING TRAFFIC
5	2 OF 31	RTE 231/TELEGRAPH	RTE 231	20+20	-	CENTER	-	-	-	-	-	-	6.00	DELINEATORS FOR RRFBS AT MID-BLOCK CROSSING
15	12 OF 31	RTE 231/KINGSTON	RTE 231	71+25	-	CENTER	-	-	-	-	-	-	6.00	DELINEATORS FOR RRFBS AT MID-BLOCK CROSSING
19	16 OF 31	RTE 231/KINGSTON	RTE 231	89+57	-	CENTER	-	-	-	-	-	-	6.00	DELINEATORS FOR RRFBS AT MID-BLOCK CROSSING
24	21 OF 31	RTE 231/S BROADWAY	RTE 231	116+85	-	CENTER	-	-	-	-	-	-	4.00	DELINEATORS FOR RRFBS AT MID-BLOCK CROSSING
26	23 OF 31	RTE 231/S BROADWAY	RTE 231	125+80	-	CENTER	-	-	-	-	-	-	4.00	DELINEATORS FOR RRFBS AT MID-BLOCK CROSSING
27	24 OF 31	RTE 231/S BROADWAY	RTE 231	130+85	-	CENTER	-	-	-	-	-	-	4.00	DELINEATORS FOR RRFBS AT MID-BLOCK CROSSING
									TOTAL	426.70	80.00	120.00	30.00	-
									PAY TOTAL	**426.70**	**80.00**	**120.00**	**30.00**	-

NOTES:
1. THESE DELINEATORS SHALL BE YELLOW IN COLOR AND SHALL BE USED ON RRFB POSTS. SEE SIGNAL SHEETS FOR RRFB DETAILS.

SUMMARY OF QUANTITIES
SHEET 79 OF 106

LAYOUT	NS	01/2025
DRAWN	SMC	01/2025
REVIEWED	DJK	01/2025

STATE OF MISSOURI
DENNIS J KOSCIELSKI
NUMBER PE-2005000712
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED
7/25/2025

ROUTE	STATE
231	MO
DISTRICT	SHEET NO.
SL	3

COUNTY
ST. LOUIS

JOB NO.
J6S3631

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DATE	DESCRIPTION

IF A SEAL IS PRESENT ON THIS SHEET, IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
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600 Washington Ave., Suite 950
St. Louis, Missouri 63101
Professional Engineer 001632
www.hanson-inc.com
314.770.0467

LIGHTING

SHEET NO.	SIGNAL SHEET NO.	FROM STATION	TO STATION	ROADWAY	CENTER LINE	LOCATION	POLE FOUNDATION (30 FT. OR 9.0 M MOUNTING HEIGHT)	MISC. {LIGHTING POLE, 30 FT. OR 9.0 M, TYPE AT TOP MOUNT}	MISC. {LUMINAIRE ARM, 6 FT. OR 1.8 M., TOP MOUNT}	MISC. {LUMINAIRE ARM, 10 FT. OR 3.0 M., TOP MOUNT}	MISC. {LUMINAIRE ARM, 12 FT. OR 3.6 M., TOP MOUNT}	LUMINAIRE, LED-A	CABLE, 10 AWG 1 CONDUCTOR, POLE AND BRACKET	CABLE-CONDUIT, 1 IN., 2 CONDUCTORS AND 1 BARE NEUTRAL, 8 AWG	CABLE, 8 AWG 1 CONDUCTOR	CONDUIT, 2 IN., RIGID IN TRENCH	CONDUIT, 4 IN., RIGID PUSHED	MISC. {COMBINATION PAD MOUNTED 120V POWER SUPPLY WITH UPS AND 240V DUAL METER LIGHTING CONTROL}	PULL BOX, PREFORMED CLASS 1	REMARKS
							(EA)	(EA)	(EA)	(EA)	(EA)	(EA)	(LF)	(LF)	(LF)	(LF)	(LF)	(LF)	(EA)	(EA)	
322	33 OF 42	19+37.25	-	RTE 231/TELEGRAPH	RTE 231	RT	1	1	-	1	-	1	80	-	-	-	-	-	-	-	POLE L1+AL8:AO30
322	33 OF 42	19+37.25	20+20.20	RTE 231/TELEGRAPH	RTE 231	RT	-	-	-	-	-	-	-	100	-	84	-	-	-	-	PULL BOX 1 TO L1
322	33 OF 42	20+20.20	20+91.47	RTE 231/TELEGRAPH	RTE 231	LT/RT	-	-	-	-	-	-	-	119	-	-	100	-	-	-	PULL BOX 1 TO L2
322	33 OF 42	20+20.20	20+32.39	RTE 231/TELEGRAPH	RTE 231	RT	-	-	-	-	-	-	-	42	-	12	-	-	-	-	PULL BOX 1 TO CONTROLLER
322	33 OF 42	20+32.39	20+40.67	RTE 231/TELEGRAPH	RTE 231	RT	-	-	-	-	-	-	-	-	27	9	-	-	-	-	CONTROLLER TO POWER
322	33 OF 42	20+20.20	-	RTE 231/TELEGRAPH	RTE 231	RT	-	-	-	-	-	-	-	-	-	-	-	-	1	-	PULL BOX 1
322	33 OF 42	20+91.47	-	RTE 231/TELEGRAPH	RTE 231	LT	1	1	1	-	-	1	72	-	-	-	-	-	-	-	POLE L2
322	33 OF 42	20+40.67	-	RTE 231/TELEGRAPH	RTE 231	RT	-	-	-	-	-	-	-	-	-	-	-	1	-	-	POWER SUPPLY
297	8 OF 42	46+37.42	-	RTE 231/TELEGRAPH	RTE 231	RT	1	1	-	-	1	1	84	-	-	-	-	-	-	-	POLE L1
297	8 OF 42	46+37.42	47+79.90	RTE 231/TELEGRAPH	RTE 231	RT	-	-	-	-	-	-	-	164	-	-	145	-	-	-	PULL BOX 2 TO L1
297	8 OF 42	47+79.90	48+41.06	RTE 231/TELEGRAPH	RTE 231	RT/LT	-	-	-	-	-	-	-	90	-	-	80	-	-	-	PULL BOX 2 TO PULL BOX 1
297	8 OF 42	48+41.06	48+81.06	RTE 231/TELEGRAPH	RTE 231	LT	-	-	-	-	-	-	-	55	-	41	-	-	-	-	PULL BOX 1 TO L2
297	8 OF 42	48+41.06	48+33.43	RTE 231/TELEGRAPH	RTE 231	LT	-	-	-	-	-	-	-	34	-	8	-	-	-	-	PULL BOX 1 TO CONTROLLER
297	8 OF 42	48+33.43	48+26.93	RTE 231/TELEGRAPH	RTE 231	LT	-	-	-	-	-	-	-	-	25	7	-	-	-	-	CONTROLLER TO POWER
297	8 OF 42	47+79.90	-	RTE 231/TELEGRAPH	RTE 231	RT	-	-	-	-	-	-	-	-	-	-	-	-	1	-	PULL BOX 2
297	8 OF 42	48+41.06	-	RTE 231/TELEGRAPH	RTE 231	LT	-	-	-	-	-	-	-	-	-	-	-	-	1	-	PULL BOX 1
297	8 OF 42	48+26.93	-	RTE 231/TELEGRAPH	RTE 231	LT	-	-	-	-	-	-	-	-	-	-	-	1	-	-	POWER SUPPLY
297	8 OF 42	48+81.06	-	RTE 231/TELEGRAPH	RTE 231	LT	1	1	-	-	1	1	84	-	-	-	-	-	-	-	POLE L2
323	34 OF 42	70+76.19	-	RTE 231/KINGSTON	RTE 231	RT	1	1	1	-	-	1	72	-	-	-	-	-	-	-	POLE L1
323	34 OF 42	70+76.19	71+23.88	RTE 231/KINGSTON	RTE 231	LT/RT	-	-	-	-	-	-	-	95	-	-	79	-	-	-	PULL BOX 1 TO L1
323	34 OF 42	71+23.88	71+87.06	RTE 231/KINGSTON	RTE 231	LT	-	-	-	-	-	-	-	79	-	64	-	-	-	-	PULL BOX 1 TO L2
323	34 OF 42	71+23.88	71+29.97	RTE 231/KINGSTON	RTE 231	LT	-	-	-	-	-	-	-	36	-	9	-	-	-	-	PULL BOX 1 TO CONTROLLER
323	34 OF 42	71+29.97	71+39.33	RTE 231/KINGSTON	RTE 231	LT	-	-	-	-	-	-	-	-	28	10	-	-	-	-	CONTROLLER TO POWER
TABLE 1 SUBTOTAL							5	5	2	1	2	5	392	814	80	244	404	2	3	-	

SUMMARY OF QUANTITIES
SHEET 80 OF 106

STATE OF MISSOURI
DENNIS J KOSCIELSKI
NUMBER PE-2005000712
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED 7/25/2025

ROUTE	STATE
231	MO
DISTRICT	SHEET NO.
SL	3

COUNTY ST. LOUIS
JOB NO. J6S3631
CONTRACT ID.
PROJECT NO.
BRIDGE NO.

IF A SEAL IS PRESENT ON THIS SHEET, IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

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St. Louis, Missouri 63101
Professional Engineer 001632
www.hanson-inc.com
314.770.0467

LAYOUT	NS	01/2025
DRAWN	SMC	01/2025
REVIEWED	DJK	01/2025

LIGHTING (CONT.)																				
SHEET NO.	SIGNAL SHEET NO.	FROM STATION	TO STATION	ROADWAY	CENTER LINE	LOCATION	POLE FOUNDATION (30 FT. OR 9.0 M MOUNTING HEIGHT)	MISC. (LIGHTING POLE, 30 FT. OR 9.0 M, TYPE AT TOP MOUNT)	MISC. (LUMINAIRE ARM, 6 FT. OR 1.8 M., TOP MOUNT)	MISC. (LUMINAIRE ARM, 10 FT. OR 3.0 M., TOP MOUNT)	MISC. (LUMINAIRE ARM, 12 FT. OR 3.6 M., TOP MOUNT)	LUMINAIRE, LED-A	CABLE, 10 AWG 1 CONDUCTOR, POLE AND BRACKET	CABLE-CONDUIT, 1 IN., 2 CONDUCTORS AND 1 BARE NEUTRAL, 8 AWG	CABLE, 8 AWG 1 CONDUCTOR	CONDUIT, 2 IN., RIGID IN TRENCH	CONDUIT, 4 IN., RIGID PUSHED	MISC. (COMBINATION PAD MOUNTED 120V POWER SUPPLY WITH UPS AND 240V DUAL METER LIGHTING CONTROL)	PULL BOX, PREFORMED CLASS 1	REMARKS
							(EA)	(EA)	(EA)	(EA)	(EA)	(EA)	(LF)	(LF)	(LF)	(LF)	(LF)	(EA)	(EA)	
323	34 OF 42	71+23.88	-	RTE 231/KINGSTON	RTE 231	LT	-	-	-	-	-	-	-	-	-	-	-	-	1	PULL BOX 1
323	34 OF 42	71+87.06	-	RTE 231/KINGSTON	RTE 231	LT	1	1	-	-	1	1	84	-	-	-	-	-	-	POLE L2
323	34 OF 42	71+39.33	-	RTE 231/KINGSTON	RTE 231	LT	-	-	-	-	-	-	-	-	-	-	-	1	-	POWER SUPPLY
324	35 OF 42	89+09.29	-	RTE 231/KINGSTON	RTE 231	RT	1	1	-	-	1	1	84	-	-	-	-	-	-	POLE L1
324	35 OF 42	89+09.29	89+70.35	RTE 231/KINGSTON	RTE 231	LT/RT	-	-	-	-	-	-	-	100	-	-	84	-	-	PULL BOX 1 TO L1
324	35 OF 42	89+09.29	90+05.29	RTE 231/KINGSTON	RTE 231	LT	-	-	-	-	-	-	-	50	-		36	-	-	PULL BOX 1 TO L2
324	35 OF 42	89+70.35	89+67.41	RTE 231/KINGSTON	RTE 231	LT	-	-	-	-	-	-	-	59	-		20	-	-	PULL BOX 1 TO CONTROLLER
324	35 OF 42	89+67.41	89+59.87	RTE 231/KINGSTON	RTE 231	LT	-	-	-	-	-	-	-	-	25	7	-	-	-	CONTROLLER TO POWER
324	35 OF 42	89+70.35	-	RTE 231/KINGSTON	RTE 231	LT	-	-	-	-	-	-	-	-	-	-	-	-	1	PULL BOX 1
324	35 OF 42	90+05.29	-	RTE 231/KINGSTON	RTE 231	LT	1	1	-	-	1	1	84	-	-	-	-	-	-	POLE L2
324	35 OF 42	89+59.87	-	RTE 231/KINGSTON	RTE 231	LT	-	-	-	-	-	-	-	-	-	-	-	1	-	POWER SUPPLY
325	36 OF 42	116+04.74	-	RTE 231/BROADWAY	RTE 231	RT	1	1	-	-	1	1	84	-	-	-	-	-	-	POLE L1
325	36 OF 42	116+04.74	116+95.57	RTE 231/BROADWAY	RTE 231	LT/RT	-	-	-	-	-	-	-	117	-	-	100	-	-	PULL BOX 1 TO L1
325	36 OF 42	116+95.57	117+38.73	RTE 231/BROADWAY	RTE 231	LT	-	-	-	-	-	-	-	58	-		44	-	-	PULL BOX 1 TO L2
325	36 OF 42	116+95.57	116+84.49	RTE 231/BROADWAY	RTE 231	LT	-	-	-	-	-	-	-	59	-		20	-	-	PULL BOX 1 TO CONTROLLER
325	36 OF 42	116+84.49	116+94.91	RTE 231/BROADWAY	RTE 231	LT	-	-	-	-	-	-	-	-	29	11	-	-	-	CONTROLLER TO POWER
325	36 OF 42	116+95.57	-	RTE 231/BROADWAY	RTE 231	LT	-	-	-	-	-	-	-	-	-	-	-	-	1	PULL BOX 1
325	36 OF 42	117+38.73	-	RTE 231/BROADWAY	RTE 231	LT	1	1	-	-	1	1	84	-	-	-	-	-	-	POLE L2
325	36 OF 42	116+94.91	-	RTE 231/BROADWAY	RTE 231	LT	-	-	-	-	-	-	-	-	-	-	-	1	-	POWER SUPPLY
326	37 OF 42	125+07.98	-	RTE 231/BROADWAY	RTE 231	RT	1	1	-	-	1	1	84	-	-	-	-	-	-	POLE L1
326	37 OF 42	125+07.98	125+73.20	RTE 231/BROADWAY	RTE 231	RT	-	-	-	-	-	-	-	81	-	-	66	-	-	PULL BOX 1 TO L1
326	37 OF 42	125+73.20	126+50.21	RTE 231/BROADWAY	RTE 231	LT/RT	-	-	-	-	-	-	-	104	-	-	88	-	-	PULL BOX 1 TO L2
TABLE 2 SUBTOTAL							6	6	-	-	6	6	504	628	54	18	458	3	3	-

STATE OF MISSOURI
DENNIS J KOSCIELSKI
NUMBER PE-2005000712
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED
7/25/2025

ROUTE	STATE
231	MO
DISTRICT	SHEET NO.
SL	3

COUNTY
ST. LOUIS

JOB NO.
J6S3631

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION	DATE

IF A SEAL IS PRESENT ON THIS SHEET, IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

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St. Louis, Missouri 63101
Professional Engineer 001632
www.hanson-inc.com
314.770.0467

LAYOUT	NS	01/2025
DRAWN	SMC	01/2025
REVIEWED	DJK	01/2025

SUMMARY OF QUANTITIES
SHEET 81 OF 106

LIGHTING (CONT.)

SHEET NO.	SIGNAL SHEET NO.	FROM STATION	TO STATION	ROADWAY	CENTER LINE	LOCATION	POLE FOUNDATION (30 FT. OR 9.0 M MOUNTING HEIGHT)	MISC. (LIGHTING POLE, 30 FT. OR 9.0 M, TYPE AT TOP MOUNT)	MISC. (LUMINAIRE ARM, 6 FT. OR 1.8 M., TOP MOUNT)	MISC. (LUMINAIRE ARM, 10 FT. OR 3.0 M., TOP MOUNT)	MISC. (LUMINAIRE ARM, 12 FT. OR 3.6 M., TOP MOUNT)	LUMINAIRE, LED-A	CABLE, 10 AWG 1 CONDUCTOR, POLE AND BRACKET	CABLE-CONDUIT, 1 IN., 2 CONDUCTORS AND 1 BARE NEUTRAL, 8 AWG	CABLE, 8 AWG 1 CONDUCTOR	CONDUIT, 2 IN., RIGID IN TRENCH	CONDUIT, 4 IN., RIGID PUSHED	MISC. (COMBINATION PAD MOUNTED 120V POWER SUPPLY WITH UPS AND 240V DUAL METER LIGHTING CONTROL)	PULL BOX, PREFORMED CLASS 1	REMARKS
							(EA)	(EA)	(EA)	(EA)	(EA)	(EA)	(LF)	(LF)	(LF)	(LF)	(LF)	(EA)	(EA)	
326	37 OF 42	125+73.20	125+74.32	RTE 231/BROADWAY	RTE 231	RT	-	-	-	-	-	-	-	30	-	-	6	-	-	PULL BOX 1 TO CONTROLLER
326	37 OF 42	125+74.32	125+64.03	RTE 231/BROADWAY	RTE 231	RT	-	-	-	-	-	-	-	-	29	11	-	-	-	CONTROLLER TO POWER
326	37 OF 42	125+73.20	-	RTE 231/BROADWAY	RTE 231	RT	-	-	-	-	-	-	-	-	-	-	-		1	PULL BOX 1
326	37 OF 42	125+50.21	-	RTE 231/BROADWAY	RTE 231	LT	1	1	-	-	1	1	84	-	-	-	-	-	-	POLE L2
326	37 OF 42	125+64.03	-	RTE 231/BROADWAY	RTE 231	RT	-	-	-	-	-	-	-	-	-	-	-	1	-	POWER SUPPLY
327	38 OF 42	130+12.09	-	RTE 231/BROADWAY	RTE 231	RT	1	1	-	-	1	1	84	-	-	-	-	-	-	POLE L1
327	38 OF 42	130+12.09	130+79.01	RTE 231/BROADWAY	RTE 231	RT	-	-	-	-	-	-	-	83	-	-	68	-	-	PULL BOX 1 TO L1
327	38 OF 42	130+79.01	131+83.40	RTE 231/BROADWAY	RTE 231	LT/RT	-	-	-	-	-	-	-	136	-	-	118	-	-	PULL BOX 1 TO L2
327	38 OF 42	130+79.01	130+84.50	RTE 231/BROADWAY	RTE 231	RT	-	-	-	-	-	-	-	30	-	6	-	-	-	PULL BOX 1 TO CONTROLLER
327	38 OF 42	130+84.50	130+92.50	RTE 231/BROADWAY	RTE 231	RT	-	-	-	-	-	-	-	-	27	9	-	-	-	CONTROLLER TO POWER
327	38 OF 42	130+79.01	-	RTE 231/BROADWAY	RTE 231	RT	-	-	-	-	-	-	-	-	-	-	-		1	PULL BOX 1
327	38 OF 42	131+83.40	-	RTE 231/BROADWAY	RTE 231	LT	1	1	-	-	1	1	84	-	-	-	-	-	-	POLE L2
327	38 OF 42	130+92.50	-	RTE 231/BROADWAY	RTE 231	RT	-	-	-	-	-	-	-	-	-	-	-	1	-	POWER SUPPLY
TABLE 3 SUBTOTAL							3	3	-	-	3	3	252	279	56	26	192	2	2	-
TABLE 1 SUBTOTAL							5	5	2	1	2	5	392	814	80	244	404	2	3	
TABLE 2 SUBTOTAL							6	6	-	-	6	6	504	628	54	18	458	3	3	
TABLE 3 SUBTOTAL							3	3	-	-	3	3	252	279	56	26	192	2	2	
TOTAL							14	14	2	1	11	14	1,148	1,721	190	288	1,054	7	8	
PAY TOTAL							**14**	**14**	**2**	**1**	**11**	**14**	**1,150**	**1,720**	**190**	**288**	**1,054**	**7**	**8**	

SUMMARY OF QUANTITIES
SHEET 82 OF 106

LAYOUT	NS	01/2025
DRAWN	SMC	01/2025
REVIEWED	DJK	01/2025

STATE OF MISSOURI
DENNIS J KOSCIELSKI
NUMBER PE-2005000712
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED
7/25/2025

ROUTE	STATE
231	MO
DISTRICT	SHEET NO.
SL	3

COUNTY
ST. LOUIS

JOB NO.
J6S3631

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION

DATE

IF A SEAL IS PRESENT ON THIS SHEET, IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

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600 Washington Ave., Suite 950
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Professional Engineer 001632
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314.770.0467

DRAINAGE - ROCK QUANTITIES

SHEET NO.	DRAINAGE PLAN SHEET NO.	DRAINAGE PROFILE SHEET NO.	ROADWAY	CENTER LINE	STATION BEGIN	STATION END	OFFSET	LOCATION	LENGTH	WIDTH	DEPTH	TURF TYPE TALL FESCUE SODDING (SOD DITCH)	FURNISHING TYPE 4 ROCK DITCH LINER	PLACING TYPE 4 ROCK DITCH LINER	FURNISHING TYPE 2 ROCK DITCH LINER	PLACING TYPE 2 ROCK DITCH LINER	BEDDING MATERIAL FOR ROCK DITCH LINER	PERMANENT EROSION CONTROL GEOTEXTILE	LINEAR GRADING CLASS 2
									(FT)	(FT)	(FT)	(SQ YD)	(CY)	(CY)	(CY)	(CY)	(CY)	(SY)	(STA)
143	11 OF 31	-	RTE 231/ Kingston Dr	RTE 231	66+39.29	66+55.04	35.73	LT	16.10	12.70	2.50	-	19.00	19.00	-	-	7.60	22.80	0.60
143	11 OF 31	-	RTE 231/ Kingston Dr	RTE 231	66+23.28	66+57.88	29.50	RT	34.00	41.60	2.50	-	131.00	131.00	-	-	52.40	157.20	0.80
144	12 OF 31	-	RTE 231/ Kingston Dr	RTE 231	70+41.95	70+53.06	39.39	RT	11.11	20.62	2.50	-	-	-	21.21	21.21	8.50	25.50	0.60
144	12 OF 31	-	RTE 231/ Kingston Dr	RTE 231	70+53.06	72+54.68	29.50	RT	192.60	30.50	2.50	-	544.00	544.00	-	-	217.60	652.70	2.40
143	11 OF 31	-	RTE 231/ Kingston Dr	RTE 231	66+55.04	66+92.73	35.73	LT	37.69	4.00	1.00	16.75	-	-	-	-	-	16.80	0.80
143 & 168	11 OF 31	5 OF 9	RTE 231/ Kingston Dr	RTE 231	67+25.64	68+04.14	33.67	RT	78.50	4.00	1.00	34.89	-	-	-	-	-	34.90	1.20
143	11 OF 31	-	RTE 231/ Kingston Dr	RTE 231	67+85.53	67+90.49	29.50	RT	4.96	3.66	1.00	2.02	-	-	-	-	-	2.10	0.50
143	11 OF 31	-	RTE 231/ Kingston Dr	RTE 231	68+38.67	69+63.68	37.39	LT	125.01	4.00	1.00	55.56	-	-	-	-	-	55.60	1.70
144	12 OF 31	-	RTE 231/ Kingston Dr	RTE 231	68+88.57	68+93.57	35.90	LT	5.00	1.51	1.00	0.84	-	-	-	-	-	0.90	0.50
144	12 OF 31	-	RTE 231/ Kingston Dr	RTE 231	69+22.60	69+27.60	36.12	LT	5.00	1.25	1.00	0.69	-	-	-	-	-	0.70	0.50
144	12 OF 31	-	RTE 231/ Kingston Dr	RTE 231	69+56.59	69+61.59	36.02	LT	5.00	1.31	1.00	0.73	-	-	-	-	-	0.80	0.50
144 & 168	12 OF 31	5 OF 9	RTE 231/ Kingston Dr	RTE 231	69+03.74	69+15.74	33.18	RT	12.00	4.00	1.00	-	-	-	1.78	1.78	-	5.40	0.60
144	12 OF 31	-	RTE 231/ Kingston Dr	RTE 231	69+03.75	69+08.75	29.50	RT	5.00	3.67	1.00	2.04	-	-	-	-	-	2.10	0.50
144 & 168	12 OF 31	5 OF 9	RTE 231/ Kingston Dr	RTE 231	69+15.74	69+73.74	33.54	RT	58.00	4.00	1.00	25.78	-	-	-	-	-	25.80	1.00
144	12 OF 31	-	RTE 231/ Kingston Dr	RTE 231	69+30.17	69+35.17	39.50	RT	5.00	3.93	1.00	2.18	-	-	-	-	-	2.20	0.50
144	12 OF 31	-	RTE 231/ Kingston Dr	RTE 231	69+56.59	69+61.59	29.38	RT	5.00	4.36	1.00	2.42	-	-	-	-	-	2.50	0.50
144	12 OF 31	-	RTE 231/ Kingston Dr	RTE 231	70+60.40	72+24.11	38.73	LT	163.71	4.00	1.00	72.76	-	-	-	-	-	72.80	2.10
144	12 OF 31	-	RTE 231/ Kingston Dr	RTE 231	70+78.66	70+83.66	35.83	LT	5.00	2.06	1.00	1.14	-	-	-	-	-	1.20	0.50
144	12 OF 31	-	RTE 231/ Kingston Dr	RTE 231	71+64.17	71+69.17	36.26	LT	5.00	2.95	1.00	1.64	-	-	-	-	-	1.70	0.50
144	12 OF 31	-	RTE 231/ Kingston Dr	RTE 231	71+98.17	72+03.17	36.47	LT	5.00	3.26	1.00	1.81	-	-	-	-	-	1.90	0.50
144	12 OF 31	-	RTE 231/ Kingston Dr	RTE 231	73+20.51	75+11.23	37.64	LT	190.72	4.00	1.00	84.76	-	-	-	-	-	84.80	2.40
144	12 OF 31	-	RTE 231/ Kingston Dr	RTE 231	73+31.10	73+36.10	36.64	LT	5.00	1.31	1.00	0.73	-	-	-	-	-	0.80	0.50
145	13 OF 31	-	RTE 231/ Kingston Dr	RTE 231	74+69.85	74+74.85	36.54	LT	5.00	0.86	1.00	0.48	-	-	-	-	-	0.50	0.50
144 & 168	12 OF 31	5 OF 9	RTE 231/ Kingston Dr	RTE 231	73+07.41	73+78.91	34.83	RT	71.50	4.00	1.00	31.78	-	-	-	-	-	31.80	1.20
144	12 OF 31	-	RTE 231/ Kingston Dr	RTE 231	73+31.10	73+36.10	29.50	RT	5.00	5.24	1.00	2.91	-	-	-	-	-	3.00	0.50
145 & 168	13 OF 31	5 OF 9	RTE 231/ Kingston Dr	RTE 231	73+78.91	73+90.91	35.09	RT	12.00	4.00	1.00	-	-	-	1.78	1.78	-	5.40	0.60
145	13 OF 31	5 OF 9	RTE 231/ Kingston Dr	RTE 231	74+55.19	74+90.62	33.64	RT	35.43	4.00	1.00	15.75	-	-	-	-	-	15.80	0.80
145	13 OF 31	-	RTE 231/ Kingston Dr	RTE 231	74+69.85	74+74.85	29.50	RT	5.00	4.20	1.00	2.33	-	-	-	-	-	2.40	0.50
145 & 168	13 OF 31	5 OF 9	RTE 231/ Kingston Dr	RTE 231	74+90.62	75+02.62	34.10	RT	12.00	4.00	1.00	-	-	-	1.78	1.78	-	5.40	0.60
145	13 OF 31	-	RTE 231/ Kingston Dr	RTE 231	75+89.14	77+86.43	37.31	LT	197.29	4.00	1.00	87.68	-	-	-	-	-	87.70	2.40
145	13 OF 31	-	RTE 231/ Kingston Dr	RTE 231	76+09.83	76+14.83	36.29	LT	5.00	1.10	1.00	0.61	-	-	-	-	-	0.70	0.50
145	13 OF 31	-	RTE 231/ Kingston Dr	RTE 231	77+28.05	77+33.05	36.32	LT	5.00	1.46	1.00	0.81	-	-	-	-	-	0.90	0.50
145	13 OF 31	-	RTE 231/ Kingston Dr	RTE 231	77+86.43	77+98.43	37.89	LT	12.00	4.00	1.00	-	-	-	1.78	1.78	-	5.40	0.60
145 & 168	13 OF 31	5 OF 9	RTE 231/ Kingston Dr	RTE 231	75+82.91	78+72.10	34.08	RT	289.19	4.00	1.00	128.53	-	-	-	-	-	128.60	3.30
145	13 OF 31	-	RTE 231/ Kingston Dr	RTE 231	76+09.83	76+14.83	29.50	RT	5.00	4.77	1.00	2.65	-	-	-	-	-	2.70	0.50
145	13 OF 31	-	RTE 231/ Kingston Dr	RTE 231	77+28.07	77+33.07	29.50	RT	5.00	4.76	1.00	2.64	-	-	-	-	-	2.70	0.50
146	14 OF 31	-	RTE 231/ Kingston Dr	RTE 231	78+74.96	78+79.96	29.50	RT	5.00	4.71	1.00	2.62	-	-	-	-	-	2.70	0.50
146 & 168	14 OF 31	5 OF 9	RTE 231/ Kingston Dr	RTE 231	78+72.10	78+84.10	34.22	RT	12.00	4.00	1.00	-	-	-	1.78	1.78	-	5.40	0.60
146	14 OF 31	-	RTE 231/ Kingston Dr	RTE 231	78+62.38	80+57.74	37.26	LT	195.36	4.00	1.00	86.83	-	-	-	-	-	86.90	2.40
146	14 OF 31	-	RTE 231/ Kingston Dr	RTE 231	78+78.71	78+83.71	36.52	LT	5.00	1.29	1.00	0.72	-	-	-	-	-	0.80	0.50
146	14 OF 31	-	RTE 231/ Kingston Dr	RTE 231	80+49.95	80+54.95	36.39	LT	5.00	0.19	1.00	0.11	-	-	-	-	-	0.20	0.50
146 & 168	14 OF 31	5 OF 9	RTE 231/ Kingston Dr	RTE 231	79+57.64	80+29.12	34.93	RT	71.48	4.00	1.00	31.77	-	-	-	-	-	31.80	1.20
146	14 OF 31	-	RTE 231/ Kingston Dr	RTE 231	79+84.01	79+88.99	30.55	RT	4.98	4.13	1.00	2.29	-	-	-	-	-	2.30	0.50
146	14 OF 31	-	RTE 231/ Kingston Dr	RTE 231	81+42.27	83+08.18	37.72	LT	165.91	4.00	1.00	73.74	-	-	-	-	-	73.80	2.10
146 & 169	14 OF 31	6 OF 9	RTE 231/ Kingston Dr	RTE 231	82+72.54	83+76.48	38.50	RT	103.94	4.00	1.00	46.20	-	-	-	-	-	46.20	1.50
147	15 OF 31	-	RTE 231/ Kingston Dr	RTE 231	84+01.77	85+54.21	35.80	LT	152.44	4.00	1.00	67.75	-	-	-	-	-	67.80	2.00
147 & 169	15 OF 31	6 OF 9	RTE 231/ Kingston Dr	RTE 231	84+54.29	84+66.29	38.69	RT	12.00	4.00	1.00	-	-	-	1.78	1.78	-	5.40	0.60
147 & 169	15 OF 31	6 OF 9	RTE 231/ Kingston Dr	RTE 231	84+66.29	86+63.11	38.33	RT	196.82	4.00	1.00	87.48	-	-	-	-	-	87.50	2.40
147	15 OF 31	-	RTE 231/ Kingston Dr	RTE 231	86+51.19	88+18.64	36.88	LT	167.45	4.00	1.00	74.42	-	-	-	-	-	74.50	2.10
147	15 OF 31	-	RTE 231/ Kingston Dr	RTE 231	87+19.23	90+78.06	39.91	RT	358.83	4.00	1.00	159.48	-	-	-	-	-	159.50	4.00
147	15 OF 31	-	RTE 231/ Kingston Dr	RTE 231	89+00.31	90+59.93	37.72	LT	159.62	4.00	1.00	70.94	-	-	-	-	-	71.00	2.00
148	16 OF 31	-	RTE 231/ Kingston Dr	RTE 231	90+07.85	90+12.85	36.26	LT	5.00	1.95	1.00	1.08	-	-	-	-	-	1.10	0.50
148	16 OF 31	-	RTE 231/ Kingston Dr	RTE 231	90+37.83	90+42.83	36.21	LT	5.00	2.44	1.00	1.36	-	-	-	-	-	1.40	0.50
QUANTITY FROM GUARDRAIL AND CRASHWORTHY END TERMINALS (SHEET 77 OF 106)												-	-	-	-	-	-	-	1.50
TOTAL												1289.69	694.00	694.00	31.88	31.88	286.10	2,182.50	58.10
PAY TOTAL												**1290**	**694**	**694**	**32**	**32**	**286**	**2,183**	**58**

LAYOUT	NS	01/2025
DRAWN	SMC	01/2025
REVIEWED	DJK	01/2025

SUMMARY OF QUANTITIES
SHEET 83 OF 106

DENNIS J KOSCIELSKI
NUMBER PE-2005000712
STATE OF MISSOURI
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED
7/25/2025

ROUTE	STATE
231	MO
DISTRICT	SHEET NO.
SL	3

COUNTY
ST. LOUIS

JOB NO.
J6S3631

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION	DATE

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

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DRAINAGE - STRUCTURE QUANTITIES

SHEET NO.	DRAINAGE PLAN SHEET NO.	PIPE PROFILE SHEET NO.	ROADWAY	CENTER LINE	STATION	OFFSET	LOCATION	ID #	ACTUAL DEPTH	PRECAST CONCRETE MANHOLE 60 IN.	MANHOLE FRAME AND COVER TYPE 1-B	CURVED VANE GRATE AND FRAME (2 FT. X 2 FT. OR 600MM X 600MM)	CURVED VANE GRATE AND FRAME (4 FT. X 2 FT. OR 1200MM X 600MM)	CURB INLET	MISC. {GRATED TROUGH}	MISC. {PASS THROUGH}	MISC. {PASS DOWN}	MISC. {EAST DRAINAGE STRUCTURE 18'-8" x 6'-6"}	MISC. {WEST DRAINAGE STRUCTURE 22'-6" x 6'-10"}	PRECAST CONCRETE DROP INLET 2 FT x 2 FT	PRECAST CONCRETE DROP INLET 4 FT x 2 FT	CLASS 3 EXCAVATION	SEWER {GRANULAR BACKFILL}	REMARKS
									(FT)	(LF)	(EACH)	(EACH)	(EACH)	(EACH)	(EACH)	(EACH)	(EACH)	(EACH)	(EACH)	(LF)	(LF)	(CY)	(CY)	
133 & 164	1 OF 31	1	RTE. 231 / TELEGRAPH RD	RTE 231	16+62.88	23.52	LT	1-2 MH	3.30	3	1	-	-	-	-	-	-	-	-	-	-	6	6	R&R TOP OF INLET WITH MANHOLE
133 & 164	1 OF 31	1	RTE. 231 / TELEGRAPH RD	RTE 231	16+73.73	25.00	LT	1-8 GT	3.42	-	-	-	-	-	1	-	-	-	-	-	-	13	13	NEW STRUCTURE
134 & 164	2 OF 31	1	RTE. 231 / TELEGRAPH RD	RTE 231	18+56.95	25.00	LT	1-10 GT	3.42	-	-	-	-	-	1	-	-	-	-	-	-	14	14	NEW STRUCTURE
134 & 164	2 OF 31	1	RTE. 231 / TELEGRAPH RD	RTE 231	18+63.73	23.68	LT	1-6 MH	2.85	3	1	-	-	-	-	-	-	-	-	-	-	6	6	R&R TOP OF INLET WITH MANHOLE
135 & 165	3 OF 31	2	RTE. 231 / TELEGRAPH RD	RTE 231	25+13.21	31.01	RT	2-2 MH	3.70	4	1	-	-	-	-	-	-	-	-	-	-	7	7	R&R TOP OF INLET WITH MANHOLE
135 & 165	3 OF 31	2	RTE. 231 / TELEGRAPH RD	RTE 231	24+62.04	30.50	RT	2-7 D	3.69	-	-	1	-	-	-	-	-	-	-	5	-	7	7	NEW STRUCTURE
135 & 165	3 OF 31	2	RTE. 231 / TELEGRAPH RD	RTE 231	25+95.30	23.97	LT	2-4 MH	9.00	9	1	-	-	-	-	-	-	-	-	-	-	19	19	R&R TOP OF INLET WITH MANHOLE
135 & 165	3 OF 31	2	RTE. 231 / TELEGRAPH RD	RTE 231	25+75.18	25.00	LT	2-11 GT	7.59	-	-	-	-	-	1	-	-	-	-	-	-	26	26	NEW STRUCTURE
135 & 165	3 OF 31	2	RTE. 231 / TELEGRAPH RD	RTE 231	25+13.00	29.23	LT	2-3 EX GI	2.80	-	-	-	2	-	-	-	-	-	-	-	-	-	-	R&R TOP OF INLET
135 & 165	3 OF 31	2	RTE. 231 / TELEGRAPH RD	RTE 231	24+43.23	30.50	LT	2-8 GI	2.76	-	-	-	1	-	-	-	-	-	-	-	-	5	5	NEW STRUCTURE
135 & 165	3 OF 31	2	RTE. 231 / TELEGRAPH RD	RTE 231	26+01.38	25.00	LT	2-9 GT	8.68	-	-	-	-	-	1	-	-	-	-	-	-	27	27	NEW STRUCTURE
135 & 165	3 OF 31	2	RTE. 231 / TELEGRAPH RD	RTE 231	26+43.71	23.80	RT	2-1 MH	2.60	3	1	-	-	-	-	-	-	-	-	-	-	5	5	R&R TOP OF INLET WITH MANHOLE
135 & 165	3 OF 31	2	RTE. 231 / TELEGRAPH RD	RTE 231	26+44.18	30.50	RT	2-5 D	2.54	-	-	1	-	-	-	-	-	-	-	3	-	5	5	NEW STRUCTURE
135 & 165	3 OF 31	2	RTE. 231 / TELEGRAPH RD	RTE 231	26+74.09	30.50	RT	2-6 D	2.48	-	-	1	-	-	-	-	-	-	-	3	-	5	5	NEW STRUCTURE
135	3 OF 31	-	RTE. 231 / TELEGRAPH RD	RTE 231	27+39.87	34.75	LT	3-1 PT	ON GRADE	-	-	-	-	-	-	1	-	-	-	-	-	-	-	NEW STRUCTURE
137 & 166	5 OF 31	3	RTE. 231 / TELEGRAPH RD	RTE 231	33+11.87	24.98	LT	10-4 GT	4.14	-	-	-	-	-	1	-	-	-	-	-	-	15	15	NEW STRUCTURE
136 & 166	4 OF 31	3	RTE. 231 / TELEGRAPH RD	RTE 231	32+89.69	24.91	LT	10-5 GT	4.34	-	-	-	-	-	1	-	-	-	-	-	-	16	16	NEW STRUCTURE
136 & 166	4 OF 31	3	RTE. 231 / TELEGRAPH RD	RTE 231	32+81.36	23.51	LT	10-1 MH	4.20	4	1	-	-	-	-	-	-	-	-	-	-	10	10	R&R TOP OF INLET WITH MANHOLE
137 & 166	5 OF 31	3	RTE. 231 / TELEGRAPH RD	RTE 231	33+06.71	24.11	RT	10-3 MH	2.95	3	1	-	-	-	-	-	-	-	-	-	-	6	6	R&R TOP OF INLET WITH MANHOLE
137 & 166	5 OF 31	3	RTE. 231 / TELEGRAPH RD	RTE 231	33+26.91	30.50	RT	10-6 D	2.89	-	-	1	-	-	-	-	-	-	-	4	-	5	5	NEW STRUCTURE
137 & 166	5 OF 31	3	RTE. 231 / TELEGRAPH RD	RTE 231	36+96.84	31.00	LT	4-5 GI	2.93	-	-	1	-	-	-	-	-	-	-	-	-	5	5	NEW STRUCTURE
137 & 166	5 OF 31	3	RTE. 231 / TELEGRAPH RD	RTE 231	36+51.70	30.60	LT	4-2 EX GI	3.00	-	-	1	-	-	-	-	-	-	-	-	-	-	-	R&R TOP OF INLET
137 & 166	5 OF 31	3	RTE. 231 / TELEGRAPH RD	RTE 231	36+47.47	23.91	RT	4-1 MH	3.10	3	1	-	-	-	-	-	-	-	-	-	-	7	7	R&R TOP OF INLET WITH MANHOLE
137 & 166	5 OF 31	3	RTE. 231 / TELEGRAPH RD	RTE 231	36+48.09	30.50	RT	4-4 D	3.67	-	-	1	-	-	-	-	-	-	-	4	-	7	7	NEW STRUCTURE
137 & 166	5 OF 31	3	RTE. 231 / TELEGRAPH RD	RTE 231	36+75.36	30.50	RT	4-3 D	3.57	-	-	1	-	-	-	-	-	-	-	4	-	6	6	NEW STRUCTURE
138 & 167	6 OF 31	4	RTE. 231 / TELEGRAPH RD	RTE 231	41+66.06	35.00	LT	6-9 GI	3.27	-	-	1	-	-	-	-	-	-	-	-	-	5	5	NEW STRUCTURE
138 & 167	6 OF 31	4	RTE. 231 / TELEGRAPH RD	RTE 231	41+94.79	35.00	LT	6-7 GI	3.10	-	-	1	-	-	-	-	-	-	-	-	-	-	-	R&R TOP OF INLET
138 & 167	6 OF 31	4	RTE. 231 / TELEGRAPH RD	RTE 231	46+16.85	35.80	LT	6-11 MH	2.88	3	1	-	-	-	-	-	-	-	-	-	-	6	6	NEW STRUCTURE
139 & 167	7 OF 31	4	RTE. 231 / TELEGRAPH RD	RTE 231	43+51.75	35.00	LT	6-10 GI	2.79	-	-	1	-	-	-	-	-	-	-	-	-	4	4	NEW STRUCTURE
139 & 167	7 OF 31	4	RTE. 231 / TELEGRAPH RD	RTE 231	43+64.27	35.00	LT	6-6 EX GI	2.80	-	-	1	-	-	-	-	-	-	-	-	-	-	-	R&R TOP OF INLET
139 & 167	7 OF 31	4	RTE. 231 / TELEGRAPH RD	RTE 231	45+10.33	35.00	LT	6-5 EX GI	3.75	-	-	1	-	-	-	-	-	-	-	-	-	-	-	R&R TOP OF INLET
140 & 167	8 OF 31	4	RTE. 231 / KINGSTON DR	RTE 231	48+38.15	38.45	LT	6-14 CI	3.22	-	-	-	-	1	-	-	-	-	-	-	-	6	6	NEW STRUCTURE
139 & 167	7 OF 31	4	RTE. 231 / TELEGRAPH RD	RTE 231	47+87.96	35.56	LT	6-1 MH	2.61	3	1	-	-	-	-	-	-	-	-	-	-	5	5	R&R TOP OF INLET WITH MANHOLE
139 & 167	7 OF 31	4	RTE. 231 / TELEGRAPH RD	RTE 231	46+51.97	35.00	LT	6-3 EX GI	5.00	-	-	1	-	-	-	-	-	-	-	-	-	-	-	R&R TOP OF INLET
139 & 167	7 OF 31	4	RTE. 231 / TELEGRAPH RD	RTE 231	46+23.10	35.00	LT	6-12 GI	5.32	-	-	1	-	-	-	-	-	-	-	-	-	7	7	NEW STRUCTURE
141 & 167	9 OF 31	4	RTE. 231 / KINGSTON DR	RTE 231	55+41.07	32.52	RT	8-3 EX CI	3.45	-	-	-	-	1	-	-	-	-	-	-	-	-	-	R&R TOP OF INLET
141 & 167	9 OF 31	4	RTE. 231 / KINGSTON DR	RTE 231	55+83.96	28.13	RT	8-4 GI	5.24	-	-	-	1	-	-	-	-	-	-	-	-	10	10	NEW STRUCTURE
143	11 OF 31	-	RTE. 231 / KINGSTON DR	RTE 231	66+39.95	32.11	LT	11-14 PT	ON GRADE	-	-	-	-	-	-	1	-	-	-	-	-	-	-	NEW STRUCTURE
143	11 OF 31	-	RTE. 231 / KINGSTON DR	RTE 231	66+12.25	23.81	LT	11-13 MH	5.35	5	1	-	-	-	-	-	-	-	-	-	-	-	-	R&R TOP OF INLET WITH MANHOLE
143	11 OF 31	-	RTE. 231 / KINGSTON DR	RTE 231	66+52.56	32.14	LT	11-15 PT	ON GRADE	-	-	-	-	-	-	1	-	-	-	-	-	-	-	NEW STRUCTURE
143	11 OF 31	-	RTE. 231 / KINGSTON DR	RTE 231	67+87.94	26.25	RT	9-10 PT	ON GRADE	-	-	-	-	-	-	1	-	-	-	-	-	-	-	NEW STRUCTURE
144	12 OF 31	-	RTE. 231 / KINGSTON DR	RTE 231	68+91.08	32.64	LT	9-11 PT	ON GRADE	-	-	-	-	-	-	1	-	-	-	-	-	-	-	NEW STRUCTURE
								TABLE 1 SUBTOTAL		43	11	15	4	2	6	5	0	0	0	22	0	265	265	-

LAYOUT	NS	01/2025
DRAWN	SMC	01/2025
REVIEWED	DJK	01/2025

SUMMARY OF QUANTITIES
SHEET 84 OF 106

STATE OF MISSOURI
DENNIS J KOSCIELSKI
NUMBER PE-2005000712
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED 7/25/2025

ROUTE	STATE
231	MO
DISTRICT	SHEET NO.
SL	3

COUNTY ST. LOUIS
JOB NO. J6S3631
CONTRACT ID.
PROJECT NO.
BRIDGE NO.

DESCRIPTION	DATE

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

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DRAINAGE - STRUCTURE QUANTITIES (CONT.)

SHEET NO.	DRAINAGE PLAN SHEET NO.	PIPE PROFILE SHEET NO.	ROADWAY	CENTER LINE	STATION	OFFSET	LOCATION	ID #	ACTUAL DEPTH	PRECAST CONCRETE MANHOLE 60 IN.	MANHOLE FRAME AND COVER TYPE 1-B	CURVED VANE GRATE AND FRAME (2 FT. X 2 FT. OR 600MM X 600MM)	CURVED VANE GRATE AND FRAME (4 FT. X 2 FT. OR 1200MM X 600MM)	CURB INLET	MISC. {GRATED TROUGH}	MISC. {PASS THROUGH}	MISC. {PASS DOWN}	MISC. {EAST DRAINAGE STRUCTURE 18'-8" x 6'-6"}	MISC. {WEST DRAINAGE STRUCTURE 22'-6" x 6'-10"}	PRECAST CONCRETE DROP INLET 2 FT x 2 FT	PRECAST CONCRETE DROP INLET 4 FT x 2 FT	CLASS 3 EXCAVATION	SEWER {GRANULAR BACKFILL}	REMARKS
									(FT)	(LF)	(EACH)	(EACH)	(EACH)	(EACH)	(EACH)	(EACH)	(EACH)	(EACH)	(EACH)	(LF)	(LF)	(CY)	(CY)	
144	12 OF 31	-	RTE. 231 / KINGSTON DR	RTE 231	69+25.08	32.69	LT	9-6 EX PT	ON GRADE	-	-	-	-	-	-	1	-	-	-	-	-	-	-	NEW STRUCTURE
144	12 OF 31	-	RTE. 231 / KINGSTON DR	RTE 231	69+59.09	32.76	LT	9-15 PT	ON GRADE	-	-	-	-	-	-	1	-	-	-	-	-	-	-	NEW STRUCTURE
144	12 OF 31	-	RTE. 231 / KINGSTON DR	RTE 231	70+58.04	32.44	LT	9-2 EX PT	ON GRADE	-	-	-	-	-	-	1	-	-	-	-	-	-	-	R&R TOP OF INLET
144	12 OF 31	-	RTE. 231 / KINGSTON DR	RTE 231	70+81.17	32.57	LT	9-14 PT	ON GRADE	-	-	-	-	-	-	1	-	-	-	-	-	-	-	NEW STRUCTURE
144	12 OF 31	-	RTE. 231 / KINGSTON DR	RTE 231	71+66.69	32.99	LT	9-13 PT	ON GRADE	-	-	-	-	-	-	1	-	-	-	-	-	-	-	NEW STRUCTURE
144	12 OF 31	-	RTE. 231 / KINGSTON DR	RTE 231	72+00.69	33.21	LT	9-12 PT	ON GRADE	-	-	-	-	-	-	1	-	-	-	-	-	-	-	NEW STRUCTURE
144	12 OF 31	-	RTE. 231 / KINGSTON DR	RTE 231	72+44.19	33.34	LT	12-2 EX PT	ON GRADE	-	-	-	-	-	-	1	-	-	-	-	-	-	-	R&R TOP OF INLET
144	12 OF 31	-	RTE. 231 / KINGSTON DR	RTE 231	73+33.57	33.41	LT	12-6A PT	ON GRADE	-	-	-	-	-	-	1	-	-	-	-	-	-	-	NEW STRUCTURE
144	12 OF 31	-	RTE. 231 / KINGSTON DR	RTE 231	69+06.25	26.25	RT	9-9 PT	ON GRADE	-	-	-	-	-	-	1	-	-	-	-	-	-	-	NEW STRUCTURE
144	12 OF 31	-	RTE. 231 / KINGSTON DR	RTE 231	69+32.67	26.25	RT	9-8 PT	ON GRADE	-	-	-	-	-	-	1	-	-	-	-	-	-	-	NEW STRUCTURE
144	12 OF 31	-	RTE. 231 / KINGSTON DR	RTE 231	69+59.09	26.25	RT	9-7 PT	ON GRADE	-	-	-	-	-	-	1	-	-	-	-	-	-	-	NEW STRUCTURE
144	12 OF 31	-	RTE. 231 / KINGSTON DR	RTE 231	70+57.71	26.25	RT	12-42 PT	ON GRADE	-	-	-	-	-	-	1	-	-	-	-	-	-	-	NEW STRUCTURE
144	12 OF 31	-	RTE. 231 / KINGSTON DR	RTE 231	70+81.16	26.25	RT	12-43 PT	ON GRADE	-	-	-	-	-	-	1	-	-	-	-	-	-	-	NEW STRUCTURE
144	12 OF 31	-	RTE. 231 / KINGSTON DR	RTE 231	71+66.67	26.25	RT	12-44 PT	ON GRADE	-	-	-	-	-	-	1	-	-	-	-	-	-	-	NEW STRUCTURE
144	12 OF 31	-	RTE. 231 / KINGSTON DR	RTE 231	72+00.67	26.25	RT	12-45 PT	ON GRADE	-	-	-	-	-	-	1	-	-	-	-	-	-	-	NEW STRUCTURE
144	12 OF 31	-	RTE. 231 / KINGSTON DR	RTE 231	72+39.74	26.25	RT	12-46 PT	ON GRADE	-	-	-	-	-	-	1	-	-	-	-	-	-	-	NEW STRUCTURE
144	12 OF 31	-	RTE. 231 / KINGSTON DR	RTE 231	73+33.60	26.25	RT	12-47 PT	ON GRADE	-	-	-	-	-	-	1	-	-	-	-	-	-	-	NEW STRUCTURE
145	13 OF 31	5 OF 9	RTE. 231 / KINGSTON DR	RTE 231	74+23.05	41.52	RT	1-7B MH	6.05	6	1	-	-	-	-	-	-	-	-	-	-	-	-	NEW STRUCTURE
145	13 OF 31	-	RTE. 231 / KINGSTON DR	RTE 231	74+72.37	33.27	LT	12-7 EX PT	ON GRADE	-	-	-	-	-	-	1	-	-	-	-	-	-	-	R&R TOP OF INLET
145	13 OF 31	-	RTE. 231 / KINGSTON DR	RTE 231	76+12.31	33.05	LT	12-36 PT	ON GRADE	-	-	-	-	-	-	1	-	-	-	-	-	-	-	NEW STRUCTURE
145	13 OF 31	-	RTE. 231 / KINGSTON DR	RTE 231	77+30.55	33.05	LT	12-12 EX PT	ON GRADE	-	-	-	-	-	-	1	-	-	-	-	-	-	-	R&R TOP OF INLET
145	13 OF 31	-	RTE. 231 / KINGSTON DR	RTE 231	74+72.35	26.25	RT	12-48 PT	ON GRADE	-	-	-	-	-	-	1	-	-	-	-	-	-	-	NEW STRUCTURE
145	13 OF 31	-	RTE. 231 / KINGSTON DR	RTE 231	76+12.33	26.25	RT	12-49 PT	ON GRADE	-	-	-	-	-	-	1	-	-	-	-	-	-	-	NEW STRUCTURE
145	13 OF 31	-	RTE. 231 / KINGSTON DR	RTE 231	77+30.57	26.25	RT	12-50 PT	ON GRADE	-	-	-	-	-	-	1	-	-	-	-	-	-	-	NEW STRUCTURE
146	14 OF 31	-	RTE. 231 / KINGSTON DR	RTE 231	78+81.20	33.28	LT	12-14 EX PT	ON GRADE	-	-	-	-	-	-	1	-	-	-	-	-	-	-	R&R TOP OF INLET
146	14 OF 31	-	RTE. 231 / KINGSTON DR	RTE 231	80+52.45	33.14	LT	12-15 EX PT	ON GRADE	-	-	-	-	-	-	1	-	-	-	-	-	-	-	R&R TOP OF INLET
146	14 OF 31	-	RTE. 231 / KINGSTON DR	RTE 231	78+77.46	26.25	RT	12-51 PT	ON GRADE	-	-	-	-	-	-	1	-	-	-	-	-	-	-	NEW STRUCTURE
146	14 OF 31	-	RTE. 231 / KINGSTON DR	RTE 231	79+86.85	27.58	RT	12-52 PT	ON GRADE	-	-	-	-	-	-	1	-	-	-	-	-	-	-	NEW STRUCTURE
147	15 OF 31	-	RTE. 231 / KINGSTON DR	RTE 231	85+56.71	38.34	LT	12-19 EX AI	5.95	-	-	-	-	-	-	-	-	-	-	-	6	-	-	R&R TOP OF INLET
147 & 169	15 OF 31	6 OF 9	RTE. 231 / KINGSTON DR	RTE 231	86+91.33	41.06	RT	13-1 MH	2.00	2	1	-	-	-	-	-	-	-	-	-	-	-	-	R&R TOP OF INLET WITH MANHOLE
147	15 OF 31	-	RTE. 231 / KINGSTON DR	RTE 231	88+21.14	39.31	LT	12-22 EX AI	5.95	-	-	-	-	-	-	-	-	-	-	-	6	-	-	R&R TOP OF INLET
148	16 OF 31	-	RTE. 231 / KINGSTON DR	RTE 231	90+10.34	33.01	LT	12-37 PT	ON GRADE	-	-	-	-	-	-	1	-	-	-	-	-	-	-	NEW STRUCTURE
148	16 OF 31	-	RTE. 231 / KINGSTON DR	RTE 231	90+40.31	32.98	LT	12-25 EX PT	ON GRADE	-	-	-	-	-	-	1	-	-	-	-	-	-	-	R&R TOP OF INLET
148	16 OF 31	7 OF 9	RTE. 231 / KINGSTON DR	RTE 231	90+62.43	40.89	LT	12-38 AI	7.24	-	-	-	-	-	-	-	-	-	-	-	8	17	17	NEW STRUCTURE
148 & 170	16 OF 31	7 OF 9	RTE. 231 / KINGSTON DR	RTE 231	90+72.18	39.71	LT	12-39 GI	6.66	-	-	-	1	-	-	-	-	-	-	-	-	17	17	NEW STRUCTURE
148 & 170	16 OF 31	7 OF 9	RTE. 231 / KINGSTON DR	RTE 231	90+91.29	39.39	LT	12-40 GI	6.91	-	-	-	1	-	-	-	-	-	-	-	-	18	18	NEW STRUCTURE
148 & 170	16 OF 31	7 OF 9	RTE. 231 / KINGSTON DR	RTE 231	90+98.83	38.61	LT	12-28 MH	7.50	8	1	-	-	-	-	-	-	-	-	-	-	17	17	R&R TOP OF INLET WITH MANHOLE
148 & 170	16 OF 31	7 OF 9	RTE. 231 / KINGSTON DR	RTE 231	91+46.93	37.54	LT	12-29 EX GI	8.00	-	-	1	-	-	-	-	-	-	-	-	-	-	-	R&R TOP OF INLET
148 & 170	16 OF 31	7 OF 9	RTE. 231 / KINGSTON DR	RTE 231	91+86.90	37.52	LT	12-30 EX AI	9.00	-	-	-	-	-	-	-	-	-	-	-	9	-	-	R&R TOP OF INLET
148 & 170	16 OF 31	7 OF 9	RTE. 231 / KINGSTON DR	RTE 231	91+90.33	52.19	RT	12-32 EX AI	8.00	-	-	-	-	-	-	-	-	-	-	-	8	-	-	R&R TOP OF INLET
148 & 170	16 OF 31	7 OF 9	RTE. 231 / KINGSTON DR	RTE 231	91+71.78	27.64	LT	12-41 GI	4.40	-	-	-	1	-	-	-	-	-	-	-	-	8	8	NEW STRUCTURE
148 & 170	16 OF 31	7 OF 9	RTE. 231 / KINGSTON DR	RTE 231	91+85.62	31.53	LT	12-31 MH	7.07	7	1	-	-	-	-	-	-	-	-	-	-	17	17	R&R TOP OF INLET WITH MANHOLE
148 & 170	16 OF 31	7 OF 9	RTE. 231 / KINGSTON DR	RTE 231	92+39.81	36.23	LT	12-34 EX GI	5.10	-	-	-	1	-	-	-	-	-	-	-	-	-	-	R&R TOP OF INLET
								TABLE 2 SUBTOTAL		23	4	1	4	0	0	29	0	0	0	0	37	94	94	-

LAYOUT	NS	01/2025	
DRAWN	SMC	01/2025	
REVIEWED	DJK	01/2025	

STATE OF MISSOURI
DENNIS J KOSCIELSKI
NUMBER PE-2005000712
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED 7/25/2025

ROUTE	STATE
231	MO
DISTRICT	SHEET NO.
SL	3

COUNTY ST. LOUIS

JOB NO. J6S3631

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION	DATE

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

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Professional Engineer 001632
www.hanson-inc.com
314.770.0467

SUMMARY OF QUANTITIES
SHEET 85 OF 106

DRAINAGE - STRUCTURE QUANTITIES (CONT.)

SHEET NO.	DRAINAGE PLAN SHEET NO.	PIPE PROFILE SHEET NO.	ROADWAY	CENTER LINE	STATION	OFFSET	LOCATION	ID #	ACTUAL DEPTH	PRECAST CONCRETE MANHOLE 60 IN.	MANHOLE FRAME AND COVER TYPE 1-B	CURVED VANE GRATE AND FRAME (2 FT. X 2 FT. OR 600MM X 600MM)	CURVED VANE GRATE AND FRAME (4 FT. X 2 FT. OR 1200MM X 600MM)	CURB INLET	MISC. {GRATED TROUGH}	MISC. {PASS THROUGH}	MISC. {PASS DOWN}	MISC. {EAST DRAINAGE STRUCTURE 18'-8" x 6'-6"}	MISC. {WEST DRAINAGE STRUCTURE 22'-6" x 6'-10"}	PRECAST CONCRETE DROP INLET 2 FT x 2 FT	PRECAST CONCRETE DROP INLET 4 FT x 2 FT	CLASS 3 EXCAVATION	SEWER {GRANULAR BACKFILL}	REMARKS
									(FT)	(LF)	(EACH)	(EACH)	(EACH)	(EACH)	(EACH)	(EACH)	(EACH)	(EACH)	(EACH)	(LF)	(LF)	(CY)	(CY)	
149	17 OF 31	-	RTE. 231 / KINGSTON DR	RTE 231	94+98.04	32.82	LT	14-3 EX PT	ON GRADE	-	-	-	-	-	-	1	-	-	-	-	-	-	R&R TOP OF INLET
149	17 OF 31	-	RTE. 231 / KINGSTON DR	RTE 231	96+97.20	33.04	LT	14-2 EX PT	ON GRADE	-	-	-	-	-	-	1	-	-	-	-	-	-	R&R TOP OF INLET
149	17 OF 31	-	RTE. 231 / KINGSTON DR	RTE 231	98+96.96	35.04	LT	14-1 EX PT	ON GRADE	-	-	-	-	-	-	1	-	-	-	-	-	-	R&R TOP OF INLET
149 & 170	17 OF 31	7 OF 9	RTE. 231 / KINGSTON DR	RTE 231	98+72.96	33.45	RT	15-2 EX CI	3.10	-	-	-	-	1	-	-	-	-	-	-	7	7	R&R TOP OF INLET WITH CURB INLET
150 & 170	18 OF 31	7 OF 9	RTE. 231 / KINGSTON DR	RTE 231	99+32.47	33.45	RT	15-3 CI	3.80	-	-	-	-	1	-	-	-	-	-	-	8	8	NEW STRUCTURE
150 & 170	18 OF 31	7 OF 9	RTE. 231 / KINGSTON DR	RTE 231	99+82.65	35.10	RT	15-1 EX GI	4.45	-	-	-	1	-	-	-	-	-	-	-	-	-	R&R TOP OF INLET
150 & 171	18 OF 31	8 OF 9	RTE. 231 / BROADWAY ST	RTE 231	103+05.36	28.80	LT	18-7 PD	3.85	-	-	-	-	-	-	-	1	-	-	-	10	10	R&R TOP OF INLET
150 & 171	18 OF 31	8 OF 9	RTE. 231 / BROADWAY ST	RTE 231	103+29.97	38.35	LT	18-8 PD	5.20	-	-	-	-	-	-	-	1	-	-	-	13	13	R&R TOP OF INLET
150 & 171	18 OF 31	8 OF 9	RTE. 231 / BROADWAY ST	RTE 231	104+09.08	26.90	LT	18-9B PD	2.95	-	-	-	-	-	-	-	1	-	-	-	8	8	R&R TOP OF INLET
150 & 171	18 OF 31	8 OF 9	RTE. 231 / BROADWAY ST	RTE 231	103+51.45	25.64	LT	18-9 EX GI	3.20	-	-	-	1	-	-	-	-	-	-	-	6	6	R&R TOP OF INLET
150 & 171	18 OF 31	8 OF 9	RTE. 231 / BROADWAY ST	RTE 231	103+94.79	26.56	RT	18-12 CI	3.20	-	-	-	-	1	-	-	-	-	-	-	9	9	R&R TOP OF INLET WITH CURB INLET
150 & 171	18 OF 31	8 OF 9	RTE. 231 / BROADWAY ST	RTE 231	103+51.40	28.44	RT	18-12B MH	6.96	7	1	-	-	-	-	-	-	-	-	-	15	15	NEW STRUCTURE
150 & 171	18 OF 31	8 OF 9	RTE. 231 / BROADWAY ST	RTE 231	103+51.31	24.09	RT	18-12A GI	5.74	-	-	1	-	-	-	-	-	-	-	-	8	8	NEW STRUCTURE
150	18 OF 31	-	RTE. 231 / BROADWAY ST	RTE 231	102+59.88	29.57	RT	18-13 EX GI	3.97	-	-	-	-	1	-	-	-	-	-	-	-	-	R&R TOP OF INLET WITH CURB INLET
151 & 171	19 OF 31	8 OF 9	RTE. 231 / BROADWAY ST	RTE 231	107+89.45	35.06	LT	17-3 EX GI	2.45	-	-	-	2	-	-	-	-	-	-	-	-	-	R&R TOP OF INLET
151 & 171	19 OF 31	8 OF 9	RTE. 231 / BROADWAY ST	RTE 231	108+24.07	32.97	LT	17-2 EX GI	2.70	-	-	1	-	-	-	-	-	-	-	-	-	-	R&R TOP OF INLET
152	20 OF 31	-	RTE. 231 / BROADWAY ST	RTE 231	110+36.42	23.16	RT	E-CDS	ON GRADE	-	-	-	-	-	-	-	-	1	-	-	-	-	REMOVE & REPLACE STRUCTURE TOP
152	20 OF 31	-	RTE. 231 / BROADWAY ST	RTE 231	110+40.11	23.82	LT	19-2 EX CI	4.15	-	-	-	-	1	-	-	-	-	-	-	-	-	R&R TOP OF INLET
152	20 OF 31	-	RTE. 231 / BROADWAY ST	RTE 231	110+43.22	23.16	LT	W-CDS	ON GRADE	-	-	-	-	-	-	-	-	-	1	-	-	-	REMOVE & REPLACE STRUCTURE TOP
152	20 OF 31	-	RTE. 231 / BROADWAY ST	RTE 231	110+58.17	24.3	RT	19-1 EX CI	6.00	-	-	-	-	1	-	-	-	-	-	-	-	-	R&R TOP OF INLET
154 & 172	22 OF 31	9 OF 9	RTE. 231 / BROADWAY ST	RTE 231	122+78.81	19.58	LT	21-4 GI	4.64	-	-	-	1	-	-	-	-	-	-	-	8	8	NEW STRUCTURE
154 & 172	22 OF 31	9 OF 9	RTE. 231 / BROADWAY ST	RTE 231	122+25.16	20.31	RT	21-1A GI	8.97	-	-	-	1	-	-	-	-	-	-	-	16	16	NEW STRUCTURE
154 & 172	22 OF 31	9 OF 9	RTE. 231 / BROADWAY ST	RTE 231	122+15.39	21.38	RT	21-1 MH	9.36	9	1	-	-	-	-	-	-	-	-	-	19	19	R&R TOP OF INLET WITH MANHOLE
154 & 172	22 OF 31	9 OF 9	RTE. 231 / BROADWAY ST	RTE 231	122+27.90	18.50	LT	21-3A GT	4.28	-	-	-	-	-	1	-	-	-	-	-	12	12	NEW STRUCTURE
154 & 172	22 OF 31	9 OF 9	RTE. 231 / BROADWAY ST	RTE 231	122+49.31	12.32	LT	21-3B MH	6.88	7	1	-	-	-	-	-	-	-	-	-	-	-	NEW STRUCTURE
162 & 172	30 OF 31	9 OF 9	RTE. 231 / BROADWAY ST	RTE 231	164+64.48	21.75	LT	24-8 EX CGCI	3.30	-	-	-	1	1	-	-	-	-	-	-	-	-	R&R TOP OF INLET
162 & 172	30 OF 31	9 OF 9	RTE. 231 / BROADWAY ST	RTE 231	164+74.11	22.18	LT	24-6 EX CGCI	4.20	-	-	-	1	1	-	-	-	-	-	-	-	-	R&R TOP OF INLET
162 & 172	30 OF 31	9 OF 9	RTE. 231 / BROADWAY ST	RTE 231	164+64.30	18.26	RT	24-10 EX CGCI	3.20	-	-	-	1	1	-	-	-	-	-	-	6	6	R&R TOP OF INLET
162 & 172	30 OF 31	9 OF 9	RTE. 231 / BROADWAY ST	RTE 231	164+74.39	18.39	RT	24-9 EX CGCI	3.60	-	-	-	1	1	-	-	-	-	-	-	7	7	R&R TOP OF INLET
163 & 172	31 OF 31	9 OF 9	RTE. 231 / BROADWAY ST	RTE 231	166+10.23	24.58	RT	24-2 EX CGCI	3.00	-	-	-	1	1	-	-	-	-	-	-	-	-	R&R TOP OF INLET
163 & 172	31 OF 31	9 OF 9	RTE. 231 / BROADWAY ST	RTE 231	166+15.81	24.76	RT	24-1 EX CGCI	4.30	-	-	-	1	1	-	-	-	-	-	-	-	-	R&R TOP OF INLET
TABLE 3 SUBTOTAL										23	3	2	12	12	1	3	3	1	1	0	0	152	152	-
TABLE 1 SUBTOTAL										43	11	15	4	2	6	5	-	-	-	22	-	265	265	
TABLE 2 SUBTOTAL										23	4	1	4	-	-	29	-	-	-	0	37	94	94	
TABLE 3 SUBTOTAL										23	3	2	12	12	1	3	3	1	1	0	0	152	152	
QUANTITY FROM DRAINAGE - PIPE SUMMARY OF QUANTITIES (SHEET 88 OF 106)										-	-	-	-	-	-	-	-	-	-	-	-	947	947	
TOTAL										88	18	18	20	14	7	37	3	1	1	22	37	1458	1458	
PAY TOTAL										**88**	**18**	**18**	**20**	**14**	**7**	**37**	**3**	**1**	**1**	**22**	**37**	**1458**	**1458**	

DRAINAGE STRUCTURE MISC. QUANTITIES

	CULVERT CLEANOUT	MISC. {COVERED INLET EXTENSION}	MISC. {ISLAND DRAINAGE COVER}
	(EACH)	(EACH)	(EACH)
Location 1	1	1	1
Location 2	1	-	1
TOTAL	2	1	2
PAY TOTAL	**2**	**1**	2

SUMMARY OF QUANTITIES
SHEET 86 OF 106

DENNIS J KOSCIELSKI
NUMBER PE-2005000712
STATE OF MISSOURI
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED
7/25/2025

ROUTE	STATE
231	MO
DISTRICT	SHEET NO.
SL	3

COUNTY
ST. LOUIS

JOB NO.
J6S3631

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION	DATE

IF A SEAL IS PRESENT ON THIS SHEET, IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

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314.770.0467

LAYOUT	NS	01/2025
DRAWN	SMC	01/2025
REVIEWED	DJK	01/2025

DRAINAGE - PIPE QUANTITIES

SHEET NO.	DRAINAGE PLAN SHEET NUMBER	DRAINAGE PROFILE SHEET NUMBER	ROADWAY	CENTER LINE	STRUCTURE FROM	STRUCTURE TO	36 IN. PIPE GROUP A (LF)	27 IN. PIPE GROUP A (LF)	24 IN. PIPE GROUP A (LF)	18 IN. PIPE GROUP A (LF)	18 IN. CLASS IV RCP (LF)	15 IN. PIPE GROUP A (LF)	12 IN. PIPE GROUP A (LF)	PIPE COLLAR, TYPE A (EACH)	18 IN. OR ALLOWED SUBSTITUTE GROUP B FLARED END SECTION (EACH)	CLASS 3 EXCAVATION (CY)	SEWER {GRANULAR BACKFILL} (CY)
133 & 164	1 OF 31	1 OF 9	RTE. 231 / TELEGRAPH RD	RTE 231	1-2 MH	1-3 EX CGCI	-	-	-	11	-	-	-	1	-	7	7
133 & 164	1 OF 31	1 OF 9	RTE. 231 / TELEGRAPH RD	RTE 231	1-8 GT	1-2 MH	-	-	-	-	-	-	8	1	-	2	2
134 & 164	2 OF 31	1 OF 9	RTE. 231 / TELEGRAPH RD	RTE 231	1-10 GT	1-8 GT	-	-	-	-	-	-	11	1	-	7	7
133 & 164	1 OF 31	1 OF 9	RTE. 231 / TELEGRAPH RD	RTE 231	1-10 GT	1-8 GT	-	-	-	-	-	-	11	1	-	8	8
134 & 164	2 OF 31	1 OF 9	RTE. 231 / TELEGRAPH RD	RTE 231	1-7 EX AI	1-6 MH	-	-	-	-	-	-	11	1	-	6	6
134 & 164	2 OF 31	1 OF 9	RTE. 231 / TELEGRAPH RD	RTE 231	1-6 MH	1-10 GT	-	-	-	-	-	-	5	-	-	0	0
133 & 164	1 OF 31	1 OF 9	RTE. 231 / TELEGRAPH RD	RTE 231	1-1 EX CI	1-2 MH	-	-	-	11	-	-	-	1	-	9	9
135 & 165	3 OF 31	2 OF 9	RTE. 231 / TELEGRAPH RD	RTE 231	2-7 D	2-2 MH	-	-	-	-	-	-	49	-	-	24	24
135 & 165	3 OF 31	2 OF 9	RTE. 231 / TELEGRAPH RD	RTE 231	2-2 MH	EX STORM MH	-	-	-	-	-	-	11	1	-	9	9
135 & 165	3 OF 31	2 OF 9	RTE. 231 / TELEGRAPH RD	RTE 231	2-8 GI	2-3 EX GI	-	-	-	-	-	-	66	-	-	24	24
135 & 165	3 OF 31	2 OF 9	RTE. 231 / TELEGRAPH RD	RTE 231	2-11 GT	2-4 MH	-	-	-	-	-	-	17	-	-	17	17
135 & 165	3 OF 31	2 OF 9	RTE. 231 / TELEGRAPH RD	RTE 231	2-9 GT	2-4 MH	-	-	-	-	-	-	3	-	-	0	0
135	3 OF 31	-	RTE. 231 / TELEGRAPH RD	RTE 231	HEADWALL	2-4 MH	-	-	-	11	-	-	-	1	-	10	10
135 & 165	3 OF 31	2 OF 9	RTE. 231 / TELEGRAPH RD	RTE 231	2-6 D	2-5 D	-	-	-	-	-	-	28	-	-	9	9
135 & 165	3 OF 31	2 OF 9	RTE. 231 / TELEGRAPH RD	RTE 231	2-5 D	2-1 MH	-	-	-	-	-	-	5	-	-	2	2
135 & 165	3 OF 31	2 OF 9	RTE. 231 / TELEGRAPH RD	RTE 231	2-1 MH	EX STORM MH	-	-	-	-	-	-	11	1	-	6	6
135 & 165	3 OF 31	2 OF 9	RTE. 231 / TELEGRAPH RD	RTE 231	2-3 EX GI	2-2 MH	-	-	-	-	-	-	11	1	-	8	8
137 & 166	5 OF 31	3 OF 9	RTE. 231 / TELEGRAPH RD	RTE 231	10-4 GT	10-5 GT	-	-	-	-	-	-	19	-	-	9	9
136 & 166	4 OF 31	3 OF 9	RTE. 231 / TELEGRAPH RD	RTE 231	10-5 GT	10-1 MH	-	-	-	-	-	-	6	-	-	1	1
137 & 166	5 OF 31	3 OF 9	RTE. 231 / TELEGRAPH RD	RTE 231	10-6 D	10-3 MH	-	-	-	-	-	-	19	-	-	7	7
137 & 166	5 OF 31	3 OF 9	RTE. 231 / TELEGRAPH RD	RTE 231	10-3 MH	10-1 MH	-	-	-	-	-	-	11	1	-	7	7
136 & 166	4 OF 31	3 OF 9	RTE. 231 / TELEGRAPH RD	RTE 231	10-3 MH	10-1 MH	-	-	-	-	-	-	11	1	-	9	9
137 & 166	5 OF 31	3 OF 9	RTE. 231 / TELEGRAPH RD	RTE 231	4-5 GI	4-2 EX GI	-	-	-	-	-	-	44	-	-	17	17
137 & 166	5 OF 31	3 OF 9	RTE. 231 / TELEGRAPH RD	RTE 231	4-1 MH	4-4 D	-	-	-	4	-	-	-	-	-	3	3
137 & 166	5 OF 31	3 OF 9	RTE. 231 / TELEGRAPH RD	RTE 231	4-4 D	EX STORM MH	-	-	-	11	-	-	-	1	-	12	12
137 & 166	5 OF 31	3 OF 9	RTE. 231 / TELEGRAPH RD	RTE 231	4-3 D	4-4 D	-	-	-	-	-	-	25	-	-	12	12
138 & 167	6 OF 31	4 OF 9	RTE. 231 / TELEGRAPH RD	RTE 231	6-9 GI	6-7 GI	-	-	-	-	-	-	27	-	-	11	11
138 & 167	6 OF 31	4 OF 9	RTE. 231 / TELEGRAPH RD	RTE 231	6-7 GI	6-11 MH	-	-	-	-	-	-	11	1	-	6	6
139 & 167	7 OF 31	4 OF 9	RTE. 231 / TELEGRAPH RD	RTE 231	6-11 MH	6-10 GI	-	-	-	-	-	-	33	-	-	11	11
139 & 167	7 OF 31	4 OF 9	RTE. 231 / TELEGRAPH RD	RTE 231	6-10 GI	6-6 EX GI	-	-	-	-	-	-	11	-	-	3	3
140 & 167	8 OF 31	4 OF 9	RTE. 231 / TELEGRAPH RD	RTE 231	6-14 CI	6-1 MH	-	-	-	47	-	-	-	-	-	20	20
139 & 167	7 OF 31	4 OF 9	RTE. 231 / TELEGRAPH RD	RTE 231	6-1 MH	6-15 EX CI	-	-	-	11	-	-	-	1	-	8	8
139 & 167	7 OF 31	4 OF 9	RTE. 231 / TELEGRAPH RD	RTE 231	6-2 EX GI	6-3 EX GI	-	-	-	11	-	-	-	1	-	16	16
						TABLE 1 SUBTOTAL	0	0	0	117	0	0	464	16	0	300	300

LAYOUT	NS	01/2025
DRAWN	SMC	01/2025
REVIEWED	DJK	01/2025

SUMMARY OF QUANTITIES
SHEET 87 OF 106

STATE OF MISSOURI
DENNIS J KOSCIELSKI
NUMBER PE-2005000712
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED
7/25/2025

ROUTE	STATE
231	MO
DISTRICT	SHEET NO.
SL	3

COUNTY
ST. LOUIS

JOB NO.
J6S3631

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION

DATE

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

MoDOT

105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

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DRAINAGE - PIPE QUANTITIES (CONT.)

SHEET NO.	DRAINAGE PLAN SHEET NUMBER	DRAINAGE PROFILE SHEET NUMBER	ROADWAY	CENTER LINE	STRUCTURE FROM	STRUCTURE TO	36 IN. PIPE GROUP A	27 IN. PIPE GROUP A	24 IN. PIPE GROUP A	18 IN. PIPE GROUP A	18 IN. CLASS IV RCP	15 IN. PIPE GROUP A	12 IN. PIPE GROUP A	PIPE COLLAR, TYPE A	18 IN. OR ALLOWED SUBSTITUTE GROUP B FLARED END SECTION	CLASS 3 EXCAVATION	SEWER {GRANULAR BACKFILL}
							(LF)	(LF)	(LF)	(LF)	(LF)	(LF)	(LF)	(EACH)	(EACH)	(CY)	(CY)
139 & 167	7 OF 31	4 OF 9	RTE. 231 / TELEGRAPH RD	RTE 231	6-3 EX GI	6-12 GI	-	-	-	27	-	-	-	-	-	21	21
139 & 167	7 OF 31	4 OF 9	RTE. 231 / TELEGRAPH RD	RTE 231	6-12 GI	6-4 EX GI	-	-	-	-	-	11	-	1	-	14	14
141 & 167	9 OF 31	4 OF 9	RTE. 231 / KINGSTON DR	RTE 231	8-4 GI	STORM MH	-	-	-	-	-	-	29	-	-	26	26
143 & 168	11 OF 31	5 OF 9	RTE. 231 / KINGSTON DR	RTE 231	1-1 FES	1-2 FES	-	-	-	95	-	-	-	-	2	59	59
144 & 168	12 OF 31	5 OF 9	RTE. 231 / KINGSTON DR	RTE 231	1-3 FES	1-4 FES	-	-	-	74	-	-	-	-	2	39	39
146 & 168	14 OF 31	5 OF 9	RTE. 231 / KINGSTON DR	RTE 231	1-12 FES	1-11 FES	-	-	-	69	-	-	-	-	2	47	47
145 & 168	13 OF 31	5 OF 9	RTE. 231 / KINGSTON DR	RTE 231	1-10 FES	1-9 FES	-	-	-	75	-	-	-	-	2	44	44
145 & 168	13 OF 31	5 OF 9	RTE. 231 / KINGSTON DR	RTE 231	1-8 FES	1-7B MH	-	-	-	28	-	-	-	-	2	13	13
145 & 168	13 OF 31	5 OF 9	RTE. 231 / KINGSTON DR	RTE 231	1-7B MH	1-7A FES	-	-	-	28	-	-	-	-	2	13	13
144 & 168	12 OF 31	5 OF 9	RTE. 231 / KINGSTON DR	RTE 231	1-6 FES	1-5 FES	-	-	-	61	-	-	-	-	2	40	40
146 & 169	14 OF 31	6 OF 9	RTE. 231 / KINGSTON DR	RTE 231	1-13 FES	1-14 FES	-	-	-	73	-	-	-	-	2	49	49
147 & 169	15 OF 31	6 OF 9	RTE. 231 / KINGSTON DR	RTE 231	1-15 FES	13-1 EX GI	-	-	-	-	24	-	-	-	1	6	6
148 & 170	16 OF 31	7 OF 9	RTE. 231 / KINGSTON DR	RTE 231	12-39 GI	12-40 GI	-	-	16	-	-	-	-	-	-	16	16
148 & 170	16 OF 31	7 OF 9	RTE. 231 / KINGSTON DR	RTE 231	12-40 GI	12-28 MH	-	-	5	-	-	-	-	-	-	0	0
148 & 170	16 OF 31	7 OF 9	RTE. 231 / KINGSTON DR	RTE 231	12-41 GI	12-31 MH	-	-	-	12	-	-	-	-	-	8	8
148 & 170	16 OF 31	7 OF 9	RTE. 231 / KINGSTON DR	RTE 231	12-31 MH	12-30 EX AI	-	-	3	-	-	-	-	-	-	0	0
148 & 170	16 OF 31	7 OF 9	RTE. 231 / KINGSTON DR	RTE 231	12-28 MH	12-29 EX GI	-	4	-	-	-	-	-	1	-	13	13
148 & 170	16 OF 31	7 OF 9	RTE. 231 / KINGSTON DR	RTE 231	12-38 AI	12-39 GI	-	-	8	-	-	-	-	-	-	2	2
148 & 170	16 OF 31	7 OF 9	RTE. 231 / KINGSTON DR	RTE 231	12-27 EX AI	12-28 MH	-	-	2	-	-	-	-	1	-	10	10
149 & 170	17 OF 31	7 OF 9	RTE. 231 / KINGSTON DR	RTE 231	15-2 CI	15-3 CI	-	-	-	-	-	-	56	-	-	28	28
150 & 170	18 OF 31	7 OF 9	RTE. 231 / KINGSTON DR	RTE 231	15-3 CI	15-1 EX GI	-	-	-	-	-	-	11	1	-	9	9
150 & 170	18 OF 31	7 OF 9	RTE. 231 / KINGSTON DR	RTE 231	15-3 CI	15-1 EX GI	-	-	-	-	-	-	11	1	-	12	12
150 & 170	18 OF 31	7 OF 9	RTE. 231 / KINGSTON DR	RTE 231	15-1 EX GI	EX STORM MH	-	-	-	-	-	-	11	1	-	11	11
150 & 171	18 OF 31	8 OF 9	RTE. 231 / BROADWAY ST	RTE 231	18-9B PD	18-9 EX GI	-	-	-	-	-	-	11	1	-	7	7
150 & 171	18 OF 31	8 OF 9	RTE. 231 / BROADWAY ST	RTE 231	18-9 EX GI	18-8 PD	-	-	-	11	-	-	-	1	-	10	10
150 & 171	18 OF 31	8 OF 9	RTE. 231 / BROADWAY ST	RTE 231	18-12 CI	18-12B MH	-	-	-	-	-	43	-	-	-	30	30
150 & 171	18 OF 31	8 OF 9	RTE. 231 / BROADWAY ST	RTE 231	18-12A GI	18-12B MH	-	-	-	-	-	-	2	-	-	0	0
154 & 172	22 OF 31	9 OF 9	RTE. 231 / BROADWAY ST	RTE 231	21-4 GI	EX STORM MH	-	-	-	27	-	-	-	-	-	20	20
154 & 172	22 OF 31	9 OF 9	RTE. 231 / BROADWAY ST	RTE 231	EX STORM MH	21-1A GI	-	-	15	-	-	-	-	1	-	28	28
154 & 172	22 OF 31	9 OF 9	RTE. 231 / BROADWAY ST	RTE 231	21-1A GI	21-1 MH	-	-	8	-	-	-	-	-	-	6	6
154 & 172	22 OF 31	9 OF 9	RTE. 231 / BROADWAY ST	RTE 231	21-1 MH	EX STORM MH	-	10	-	-	-	-	-	1	-	14	14
154 & 172	22 OF 31	9 OF 9	RTE. 231 / BROADWAY ST	RTE 231	EX STORM MH	21-3B MH	6	-	-	-	-	-	-	-	-	7	7
154 & 172	22 OF 31	9 OF 9	RTE. 231 / BROADWAY ST	RTE 231	21-3B MH	EX STORM MH	11	-	-	-	-	-	-	1	-	26	26
154 & 172	22 OF 31	9 OF 9	RTE. 231 / BROADWAY ST	RTE 231	21-3A GT	21-3B MH	-	-	-	20	-	-	-	-	-	14	14
162 & 172	30 OF 31	9 OF 9	RTE. 231 / BROADWAY ST	RTE 231	24-10 EX CGCI	24-9 EX CGCI	-	-	9	-	-	-	-	-	-	5	5
						TABLE 2 SUBTOTAL	17	14	66	600	24	54	131	11	17	647	647
						TABLE 1 SUBTOTAL	0	-	-	117	-	-	464	16	-	300	300
						TABLE 2 SUBTOTAL	17	14	66	600	24	54	131	11	17	647	647
						TOTAL	17	14	66	717	24	54	595	27	17	947	947
						PAY TOTAL	**17**	**14**	**66**	**717**	**24**	**54**	**595**	**27**	**17**	**SEE SHEET 86 OF 106**	**SEE SHEET 86 OF 106**

LAYOUT	NS	01/2025
DRAWN	SMC	01/2025
REVIEWED	DJK	01/2025

SUMMARY OF QUANTITIES
SHEET 88 OF 106

STATE OF MISSOURI
DENNIS J KOSCIELSKI
NUMBER PE-2005000712
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED
7/25/2025

ROUTE	STATE
231	MO
DISTRICT	SHEET NO.
SL	3

COUNTY
ST. LOUIS

JOB NO.
J6S3631

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION	DATE

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MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
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Professional Engineer 001632
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EROSION CONTROL

SHEET NO.	EROSION CONTROL SHEET NO.	ROADWAY	CENTER LINE	STATION FROM	STATION TO	LOCATION	SILT FENCE (LF)	TEMPORARY SEEDING (ACRE)	MULCHING (ACRE)	ADDITIONAL MOBILIZATION FOR SEEDING (EACH)	CURB INLET CHECK (EACH)	ROCK DITCH CHECK (LF)	SEDIMENT REMOVAL (CY)	REMARKS
259	1 OF 31	RTE 231/TELEGRAPH	RTE 231	13+72.50	15+20.00	RT	148	-	-	1	-	-	2.0	SILT FENCE
259	1 OF 31	RTE 231/TELEGRAPH	RTE 231	15+51.00	16+01.00	RT	51	-	-	-	-	-	1.0	SILT FENCE
259	1 OF 31	RTE 231/TELEGRAPH	RTE 231	16+15.00	16+75.00	RT	61	-	-	-	-	-	1.0	SILT FENCE
259	1 OF 31	RTE 231/TELEGRAPH	RTE 231	16+85.00	17+27.00	RT	42	-	-	-	-	-	1.0	SILT FENCE
259	1 OF 31	RTE 231/TELEGRAPH	RTE 231	17+37.00	17+71.00	RT	34	-	-	-	-	-	1.0	SILT FENCE
259	1 OF 31	RTE 231/TELEGRAPH	RTE 231	13+76.00	14+32.00	LT	59	-	-	-	-	-	1.0	SILT FENCE
259	1 OF 31	RTE 231/TELEGRAPH	RTE 231	14+60.00	16+00.00	LT	151	-	-	-	-	-	2.0	SILT FENCE
259	1 OF 31	RTE 231/TELEGRAPH	RTE 231	16+12.00	16+21.00	LT	27	-	-	-	-	-	1.0	SILT FENCE
259	1 OF 31	RTE 231/TELEGRAPH	RTE 231	16+47.00	16+51.00	LT	19	-	-	-	-	-	1.0	SILT FENCE
259-260	1-2 OF 31	RTE 231/TELEGRAPH	RTE 231	16+55.00	17+94.00	LT	153	-	-	-	-	-	2.0	SILT FENCE
260	2 OF 31	RTE 231/TELEGRAPH	RTE 231	17+76.00	18+07.00	RT	36	-	-	-	-	-	1.0	SILT FENCE
260	2 OF 31	RTE 231/TELEGRAPH	RTE 231	18+32.00	19+52.00	RT	126	-	-	-	-	-	2.0	SILT FENCE
260	2 OF 31	RTE 231/TELEGRAPH	RTE 231	19+81.00	20+92.00	RT	111	-	-	-	-	-	2.0	SILT FENCE
260	2 OF 31	RTE 231/TELEGRAPH	RTE 231	20+92.00	21+03.00	RT	38	-	-	-	-	-	1.0	SILT FENCE
260	2 OF 31	RTE 231/TELEGRAPH	RTE 231	21+26.00	21+48.00	RT	52	-	-	-	-	-	1.0	SILT FENCE
260	2 OF 31	RTE 231/TELEGRAPH	RTE 231	21+52.00	22+15.00	RT	76	-	-	-	-	-	1.0	SILT FENCE
260	2 OF 31	RTE 231/TELEGRAPH	RTE 231	22+17.00	22+34.00	RT	23	-	-	-	-	-	1.0	SILT FENCE
260-261	2-3 OF 31	RTE 231/TELEGRAPH	RTE 231	22+41.00	22+82.00	RT	66	-	-	-	-	-	1.0	SILT FENCE
260	2 OF 31	RTE 231/TELEGRAPH	RTE 231	18+49.00	18+71.00	LT	22	-	-	-	-	-	1.0	SILT FENCE
260	2 OF 31	RTE 231/TELEGRAPH	RTE 231	18+76.00	20+46.00	LT	185	-	-	-	-	-	2.0	SILT FENCE
260	2 OF 31	RTE 231/TELEGRAPH	RTE 231	20+63.00	21+50.00	LT	116	-	-	-	-	-	2.0	SILT FENCE
260	2 OF 31	RTE 231/TELEGRAPH	RTE 231	21+61.00	21+81.00	LT	20	-	-	-	-	-	1.0	SILT FENCE
260-261	2-3 OF 31	RTE 231/TELEGRAPH	RTE 231	21+98.00	23+61.00	LT	164	-	-	-	-	-	2.0	SILT FENCE
261	3 OF 31	RTE 231/TELEGRAPH	RTE 231	22+92.00	23+00.00	RT	16	-	-	-	-	-	1.0	SILT FENCE
261	3 OF 31	RTE 231/TELEGRAPH	RTE 231	23+19.00	23+32.00	RT	17	-	-	-	-	-	1.0	SILT FENCE
261	3 OF 31	RTE 231/TELEGRAPH	RTE 231	23+41.00	23+64.00	RT	45	-	-	-	-	-	1.0	SILT FENCE
261	3 OF 31	RTE 231/TELEGRAPH	RTE 231	23+67.00	23+82.00	RT	17	-	-	-	-	-	1.0	SILT FENCE
261	3 OF 31	RTE 231/TELEGRAPH	RTE 231	23+92.00	23+95.00	RT	10	-	-	-	-	-	1.0	SILT FENCE
261	3 OF 31	RTE 231/TELEGRAPH	RTE 231	23+98.00	24+34.00	RT	48	-	-	-	-	-	1.0	SILT FENCE
261	3 OF 31	RTE 231/TELEGRAPH	RTE 231	24+42.00	24+45.00	RT	10	-	-	-	-	-	1.0	SILT FENCE
261	3 OF 31	RTE 231/TELEGRAPH	RTE 231	24+49.00	24+82.00	RT	45	-	-	-	-	-	1.0	SILT FENCE
261	3 OF 31	RTE 231/TELEGRAPH	RTE 231	24+98.00	25+32.00	RT	43	-	-	-	-	-	1.0	SILT FENCE
261	3 OF 31	RTE 231/TELEGRAPH	RTE 231	25+48.00	25+81.00	RT	33	-	-	-	-	-	1.0	SILT FENCE
261	3 OF 31	RTE 231/TELEGRAPH	RTE 231	25+85.00	26+02.00	RT	56	-	-	-	-	-	1.0	SILT FENCE
261	3 OF 31	RTE 231/TELEGRAPH	RTE 231	26+26.00	26+29.00	RT	23	-	-	-	-	-	1.0	SILT FENCE
261	3 OF 31	RTE 231/TELEGRAPH	RTE 231	26+29.00	26+94.00	RT	86	-	-	-	-	-	1.0	SILT FENCE
261	3 OF 31	RTE 231/TELEGRAPH	RTE 231	27+03.00	27+49.00	RT	58	-	-	-	-	-	1.0	SILT FENCE
261-262	3-4 OF 31	RTE 231/TELEGRAPH	RTE 231	27+71.00	28+76.00	RT	108	-	-	-	-	-	2.0	SILT FENCE
261	3 OF 31	RTE 231/TELEGRAPH	RTE 231	23+74.00	23+79.00	LT	6	-	-	-	-	-	1.0	SILT FENCE
261	3 OF 31	RTE 231/TELEGRAPH	RTE 231	23+95.00	24+67.00	LT	71	-	-	-	-	-	1.0	SILT FENCE
261	3 OF 31	RTE 231/TELEGRAPH	RTE 231	24+93.00	25+99.00	LT	106	-	-	-	-	-	2.0	SILT FENCE
261	3 OF 31	RTE 231/TELEGRAPH	RTE 231	26+30.00	27+41.00	LT	113	-	-	-	-	-	2.0	SILT FENCE
261	3 OF 31	RTE 231/TELEGRAPH	RTE 231	27+43.00	27+92.00	LT	51	-	-	-	-	-	1.0	SILT FENCE
262	4 OF 31	RTE 231/TELEGRAPH	RTE 231	29+05.00	29+73.00	RT	72	-	-	-	-	-	1.0	SILT FENCE
262	4 OF 31	RTE 231/TELEGRAPH	RTE 231	29+83.00	30+43.00	RT	58	-	-	-	-	-	1.0	SILT FENCE
262	4 OF 31	RTE 231/TELEGRAPH	RTE 231	30+65.00	30+86.00	RT	21	-	-	-	-	-	1.0	SILT FENCE
262	4 OF 31	RTE 231/TELEGRAPH	RTE 231	31+06.00	32+08.00	RT	98	-	-	-	-	-	1.0	SILT FENCE
						TABLE 1 SUBTOTAL	2,990	-	-	1	-	-	30.0	-

SUMMARY OF QUANTITIES
SHEET 89 OF 106

LAYOUT	NS	01/2025
DRAWN	SMC	01/2025
REVIEWED	DJK	01/2025

STATE OF MISSOURI
DENNIS J KOSCIELSKI
NUMBER PE-2005000712
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED 7/25/2025
ROUTE 231 | STATE MO
DISTRICT SL | SHEET NO. 3
COUNTY ST. LOUIS
JOB NO. J6S3631
CONTRACT ID.
PROJECT NO.
BRIDGE NO.

DESCRIPTION | DATE

IF A SEAL IS PRESENT ON THIS SHEET, IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

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St. Louis, Missouri 63101
Professional Engineer 001632
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314.770.0467

EROSION CONTROL (CONT.)

SHEET NO.	EROSION CONTROL SHEET NO.	ROADWAY	CENTER LINE	STATION FROM	STATION TO	LOCATION	SILT FENCE (LF)	TEMPORARY SEEDING (ACRE)	MULCHING (ACRE)	ADDITIONAL MOBILIZATION FOR SEEDING (EACH)	CURB INLET CHECK (EACH)	ROCK DITCH CHECK (LF)	SEDIMENT REMOVAL (CY)	REMARKS
262	4 OF 31	RTE 231/TELEGRAPH	RTE 231	32+28.00	32+82.00	RT	53	-	-	-	-	-	1.0	SILT FENCE
262	4 OF 31	RTE 231/TELEGRAPH	RTE 231	28+22.00	29+48.00	LT	126	-	-	-	-	-	2.0	SILT FENCE
262	4 OF 31	RTE 231/TELEGRAPH	RTE 231	29+87.00	29+92.00	LT	12	-	-	-	-	-	1.0	SILT FENCE
262	4 OF 31	RTE 231/TELEGRAPH	RTE 231	29+97.00	31+04.00	LT	117	-	-	-	-	-	2.0	SILT FENCE
262-263	4-5 OF 31	RTE 231/TELEGRAPH	RTE 231	31+36.00	34+96.00	LT	367	-	-	-	-	-	4.0	SILT FENCE
263	5 OF 31	RTE 231/TELEGRAPH	RTE 231	33+03.00	33+55.00	RT	52	-	-	-	-	-	1.0	SILT FENCE
263	5 OF 31	RTE 231/TELEGRAPH	RTE 231	33+67.00	33+75.00	RT	8	-	-	-	-	-	1.0	SILT FENCE
263	5 OF 31	RTE 231/TELEGRAPH	RTE 231	34+55.00	34+99.00	RT	65	-	-	-	-	-	1.0	SILT FENCE
263	5 OF 31	RTE 231/TELEGRAPH	RTE 231	35+38.00	35+93.00	RT	55	-	-	-	-	-	1.0	SILT FENCE
263	5 OF 31	RTE 231/TELEGRAPH	RTE 231	36+22.00	37+46.00	RT	124	-	-	-	-	-	2.0	SILT FENCE
263-264	5-6 OF 31	RTE 231/TELEGRAPH	RTE 231	37+95.00	40+19.00	RT	246	-	-	-	-	-	3.0	SILT FENCE
263	5 OF 31	RTE 231/TELEGRAPH	RTE 231	35+49.00	35+60.00	LT	11	-	-	-	-	-	1.0	SILT FENCE
263	5 OF 31	RTE 231/TELEGRAPH	RTE 231	36+04.00	36+16.00	LT	13	-	-	-	-	-	1.0	SILT FENCE
263	5 OF 31	RTE 231/TELEGRAPH	RTE 231	36+46.00	37+53.00	LT	108	-	-	-	-	-	2.0	SILT FENCE
263-264	5-6 OF 31	RTE 231/TELEGRAPH	RTE 231	37+96.00	38+44.00	LT	48	-	-	-	-	-	1.0	SILT FENCE
264	6 OF 31	RTE 231/TELEGRAPH	RTE 231	40+67.00	40+73.00	RT	8	-	-	-	-	-	1.0	SILT FENCE
264	6 OF 31	RTE 231/TELEGRAPH	RTE 231	40+76.00	41+15.00	RT	61	-	-	-	-	-	1.0	SILT FENCE
264	6 OF 31	RTE 231/TELEGRAPH	RTE 231	41+45.00	41+78.00	RT	34	-	-	-	-	-	1.0	SILT FENCE
264	6 OF 31	RTE 231/TELEGRAPH	RTE 231	42+10.00	42+17.00	RT	8	-	-	-	-	-	1.0	SILT FENCE
264	6 OF 31	RTE 231/TELEGRAPH	RTE 231	38+96.00	39+94.00	LT	106	-	-	-	-	-	2.0	SILT FENCE
264	6 OF 31	RTE 231/TELEGRAPH	RTE 231	39+98.00	40+05.00	LT	48	-	-	-	-	-	1.0	SILT FENCE
264	6 OF 31	RTE 231/TELEGRAPH	RTE 231	40+35.00	40+74.00	LT	85	-	-	-	-	-	1.0	SILT FENCE
264	6 OF 31	RTE 231/TELEGRAPH	RTE 231	40+80.00	40+91.00	LT	12	-	-	-	-	-	1.0	SILT FENCE
265	7 OF 31	RTE 231/TELEGRAPH	RTE 231	45+23.00	45+53.00	RT	37	-	-	-	-	-	1.0	SILT FENCE
265	7 OF 31	RTE 231/TELEGRAPH	RTE 231	43+34.00	43+82.00	LT	48	-	-	-	-	-	1.0	SILT FENCE
265	7 OF 31	RTE 231/TELEGRAPH	RTE 231	43+98.00	44+10.00	LT	12	-	-	-	-	-	1.0	SILT FENCE
265	7 OF 31	RTE 231/TELEGRAPH	RTE 231	44+27.00	44+46.00	LT	19	-	-	-	-	-	1.0	SILT FENCE
265	7 OF 31	RTE 231/TELEGRAPH	RTE 231	44+52.00	44+75.00	LT	23	-	-	-	-	-	1.0	SILT FENCE
265-266	7-8 OF 31	RTE 231/TELEGRAPH	RTE 231	48+15.00	50+47.00	LT	264	-	-	-	-	-	3.0	SILT FENCE
266	8 OF 31	RTE 231/KINGSTON	RTE 231	48+74.00	50+39.00	RT	161	-	-	-	-	-	2.0	SILT FENCE
266	8 OF 31	RTE 231/KINGSTON	RTE 231	50+44.00	50+93.00	RT	61	-	-	-	-	-	1.0	SILT FENCE
266	8 OF 31	RTE 231/KINGSTON	RTE 231	51+17.00	52+98.00	RT	182	-	-	-	-	-	2.0	SILT FENCE
266	8 OF 31	RTE 231/KINGSTON	RTE 231	53+08.00	53+16.00	RT	8	-	-	-	-	-	1.0	SILT FENCE
266-267	8-9 OF 31	RTE 231/KINGSTON	RTE 231	53+21.00	53+76.00	RT	53	-	-	-	-	-	1.0	SILT FENCE
266	8 OF 31	RTE 231/KINGSTON	RTE 231	50+52.00	50+57.00	LT	6	-	-	-	-	-	1.0	SILT FENCE
266	8 OF 31	RTE 231/KINGSTON	RTE 231	50+78.00	51+35.00	LT	82	-	-	-	-	-	1.0	SILT FENCE
266	8 OF 31	RTE 231/KINGSTON	RTE 231	51+55.00	52+08.00	LT	59	-	-	-	-	-	1.0	SILT FENCE
266	8 OF 31	RTE 231/KINGSTON	RTE 231	52+15.00	52+20.00	LT	49	-	-	-	-	-	1.0	SILT FENCE
266	8 OF 31	RTE 231/KINGSTON	RTE 231	52+29.00	52+58.00	LT	49	-	-	-	-	-	1.0	SILT FENCE
266	8 OF 31	RTE 231/KINGSTON	RTE 231	52+62.00	52+66.00	LT	5	-	-	-	-	-	1.0	SILT FENCE
266	8 OF 31	RTE 231/KINGSTON	RTE 231	52+93.00	53+98.00	LT	8	-	-	-	-	-	1.0	SILT FENCE
266	8 OF 31	RTE 231/KINGSTON	RTE 231	53+02.00	53+05.00	LT	10	-	-	-	-	-	1.0	SILT FENCE
266-267	8-9 OF 31	RTE 231/KINGSTON	RTE 231	53+07.00	53+63.00	LT	63	-	-	-	-	-	1.0	SILT FENCE
267	9 OF 31	RTE 231/KINGSTON	RTE 231	53+80.00	53+90.00	RT	10	-	-	-	-	-	1.0	SILT FENCE
267	9 OF 31	RTE 231/KINGSTON	RTE 231	54+01.00	54+78.00	RT	75	-	-	-	-	-	1.0	SILT FENCE
267	9 OF 31	RTE 231/KINGSTON	RTE 231	54+89.00	55+41.00	RT	51	-	-	-	-	-	1.0	SILT FENCE
267	9 OF 31	RTE 231/KINGSTON	RTE 231	55+45.00	55+53.00	RT	8	-	-	-	-	-	1.0	SILT FENCE
267	9 OF 31	RTE 231/KINGSTON	RTE 231	55+64.00	55+93.00	RT	30	-	-	-	-	-	1.0	SILT FENCE
267	9 OF 31	RTE 231/KINGSTON	RTE 231	55+95.00	56+02.00	RT	13	-	-	-	-	-	1.0	SILT FENCE
267	9 OF 31	RTE 231/KINGSTON	RTE 231	56+06.00	56+09.00	RT	3	-	-	-	-	-	1.0	SILT FENCE
					TABLE 2 SUBTOTAL		3,157	-	-	-	-	-	32.0	-

LAYOUT	NS	01/2025
DRAWN	SMC	01/2025
REVIEWED	DJK	01/2025

SUMMARY OF QUANTITIES
SHEET 90 OF 106

STATE OF MISSOURI
DENNIS J KOSCIELSKI
NUMBER PE-2005000712
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED
7/25/2025

ROUTE	STATE
231	MO
DISTRICT	SHEET NO.
SL	3

COUNTY
ST. LOUIS

JOB NO.
J6S3631

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION	DATE

IF A SEAL IS PRESENT ON THIS SHEET, IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
MoDOT
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

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EROSION CONTROL (CONT.)

SHEET NO.	EROSION CONTROL SHEET NO.	ROADWAY	CENTER LINE	STATION FROM	STATION TO	LOCATION	SILT FENCE (LF)	TEMPORARY SEEDING (ACRE)	MULCHING (ACRE)	ADDITIONAL MOBILIZATION FOR SEEDING (EACH)	CURB INLET CHECK (EACH)	ROCK DITCH CHECK (LF)	SEDIMENT REMOVAL (CY)	REMARKS
267	9 OF 31	RTE 231/KINGSTON	RTE 231	56+40.00	56+43.00	RT	3	-	-	-	-	-	1.0	SILT FENCE
267	9 OF 31	RTE 231/KINGSTON	RTE 231	56+49.00	56+74.00	RT	36	-	-	-	-	-	1.0	SILT FENCE
267	9 OF 31	RTE 231/KINGSTON	RTE 231	56+78.00	56+94.00	RT	16	-	-	-	-	-	1.0	SILT FENCE
267	9 OF 31	RTE 231/KINGSTON	RTE 231	57+05.00	57+35.00	RT	30	-	-	-	-	-	1.0	SILT FENCE
267	9 OF 31	RTE 231/KINGSTON	RTE 231	57+45.00	57+57.00	RT	12	-	-	-	-	-	1.0	SILT FENCE
267	9 OF 31	RTE 231/KINGSTON	RTE 231	57+61.00	57+76.00	RT	15	-	-	-	-	-	1.0	SILT FENCE
267	9 OF 31	RTE 231/KINGSTON	RTE 231	57+86.00	58+15.00	RT	31	-	-	-	-	-	1.0	SILT FENCE
267-268	9-10 OF 31	RTE 231/KINGSTON	RTE 231	58+25.00	58+70.00	RT	47	-	-	-	-	-	1.0	SILT FENCE
267	9 OF 31	RTE 231/KINGSTON	RTE 231	53+67.00	53+77.00	LT	10	-	-	-	-	-	1.0	SILT FENCE
267	9 OF 31	RTE 231/KINGSTON	RTE 231	53+87.00	54+02.00	LT	16	-	-	-	-	-	1.0	SILT FENCE
267	9 OF 31	RTE 231/KINGSTON	RTE 231	54+06.00	54+15.00	LT	9	-	-	-	-	-	1.0	SILT FENCE
267	9 OF 31	RTE 231/KINGSTON	RTE 231	54+30.00	54+53.00	LT	25	-	-	-	-	-	1.0	SILT FENCE
267	9 OF 31	RTE 231/KINGSTON	RTE 231	54+57.00	54+59.00	LT	3	-	-	-	-	-	1.0	SILT FENCE
267	9 OF 31	RTE 231/KINGSTON	RTE 231	54+69.00	55+22.00	LT	55	-	-	-	-	-	1.0	SILT FENCE
267	9 OF 31	RTE 231/KINGSTON	RTE 231	55+37.00	55+58.00	LT	21	-	-	-	-	-	1.0	SILT FENCE
267	9 OF 31	RTE 231/KINGSTON	RTE 231	55+61.00	56+64.00	LT	4	-	-	-	-	-	1.0	SILT FENCE
267	9 OF 31	RTE 231/KINGSTON	RTE 231	56+75.00	56+05.00	LT	30	-	-	-	-	-	1.0	SILT FENCE
267	9 OF 31	RTE 231/KINGSTON	RTE 231	56+15.00	56+31.00	LT	16	-	-	-	-	-	1.0	SILT FENCE
267	9 OF 31	RTE 231/KINGSTON	RTE 231	56+35.00	56+46.00	LT	11	-	-	-	-	-	1.0	SILT FENCE
267	9 OF 31	RTE 231/KINGSTON	RTE 231	56+64.00	56+76.00	LT	12	-	-	-	-	-	1.0	SILT FENCE
267	9 OF 31	RTE 231/KINGSTON	RTE 231	56+80.00	57+24.00	LT	44	-	-	-	-	-	1.0	SILT FENCE
267	9 OF 31	RTE 231/KINGSTON	RTE 231	57+34.00	57+50.00	LT	16	-	-	-	-	-	1.0	SILT FENCE
267	9 OF 31	RTE 231/KINGSTON	RTE 231	57+54.00	57+77.00	LT	37	-	-	-	-	-	1.0	SILT FENCE
267	9 OF 31	RTE 231/KINGSTON	RTE 231	57+81.00	57+84.00	LT	3	-	-	-	-	-	1.0	SILT FENCE
267	9 OF 31	RTE 231/KINGSTON	RTE 231	58+16.00	58+20.00	LT	4	-	-	-	-	-	1.0	SILT FENCE
267	9 OF 31	RTE 231/KINGSTON	RTE 231	58+24.00	58+42.00	LT	32	-	-	-	-	-	1.0	SILT FENCE
267-268	9-10 OF 31	RTE 231/KINGSTON	RTE 231	58+47.00	58+70.00	LT	27	-	-	-	-	-	1.0	SILT FENCE
268	10 OF 31	RTE 231/KINGSTON	RTE 231	58+74.00	58+84.00	RT	10	-	-	-	-	-	1.0	SILT FENCE
268	10 OF 31	RTE 231/KINGSTON	RTE 231	58+94.00	59+11.00	RT	19	-	-	-	-	-	1.0	SILT FENCE
268	10 OF 31	RTE 231/KINGSTON	RTE 231	59+15.00	59+23.00	RT	8	-	-	-	-	-	1.0	SILT FENCE
268	10 OF 31	RTE 231/KINGSTON	RTE 231	59+33.00	59+48.00	RT	16	-	-	-	-	-	1.0	SILT FENCE
268	10 OF 31	RTE 231/KINGSTON	RTE 231	58+52.00	59+62.00	RT	11	-	-	-	-	-	1.0	SILT FENCE
268	10 OF 31	RTE 231/KINGSTON	RTE 231	59+72.00	59+87.00	RT	16	-	-	-	-	-	1.0	SILT FENCE
268	10 OF 31	RTE 231/KINGSTON	RTE 231	59+91.00	60+00.00	RT	9	-	-	-	-	-	1.0	SILT FENCE
268	10 OF 31	RTE 231/KINGSTON	RTE 231	60+18.00	60+38.00	RT	21	-	-	-	-	-	1.0	SILT FENCE
268	10 OF 31	RTE 231/KINGSTON	RTE 231	60+42.00	60+49.00	RT	7	-	-	-	-	-	1.0	SILT FENCE
268	10 OF 31	RTE 231/KINGSTON	RTE 231	60+58.00	60+69.00	RT	11	-	-	-	-	-	1.0	SILT FENCE
268	10 OF 31	RTE 231/KINGSTON	RTE 231	60+73.00	61+19.00	RT	49	-	-	-	-	-	1.0	SILT FENCE
268	10 OF 31	RTE 231/KINGSTON	RTE 231	61+30.00	61+33.00	RT	4	-	-	-	-	-	1.0	SILT FENCE
268	10 OF 31	RTE 231/KINGSTON	RTE 231	61+71.00	61+77.00	RT	8	-	-	-	-	-	1.0	SILT FENCE
268	10 OF 31	RTE 231/KINGSTON	RTE 231	61+80.00	62+30.00	RT	55	-	-	-	-	-	1.0	SILT FENCE
268	10 OF 31	RTE 231/KINGSTON	RTE 231	62+34.00	62+63.00	RT	30	-	-	-	-	-	1.0	SILT FENCE
268	10 OF 31	RTE 231/KINGSTON	RTE 231	62+67.00	62+95.00	RT	30	-	-	-	-	-	1.0	SILT FENCE
268	10 OF 31	RTE 231/KINGSTON	RTE 231	63+00.00	63+31.00	RT	32	-	-	-	-	-	1.0	SILT FENCE
268-269	10-11 OF 31	RTE 231/KINGSTON	RTE 231	63+35.00	63+63.00	RT	30	-	-	-	-	-	1.0	SILT FENCE
268	10 OF 31	RTE 231/KINGSTON	RTE 231	58+86.00	59+20.00	LT	33	-	-	-	-	-	1.0	SILT FENCE
268	10 OF 31	RTE 231/KINGSTON	RTE 231	59+30.00	59+64.00	LT	33	-	-	-	-	-	1.0	SILT FENCE
268	10 OF 31	RTE 231/KINGSTON	RTE 231	59+75.00	60+22.00	LT	46	-	-	-	-	-	1.0	SILT FENCE
268	10 OF 31	RTE 231/KINGSTON	RTE 231	60+27.00	60+39.00	LT	12	-	-	-	-	-	1.0	SILT FENCE
268	10 OF 31	RTE 231/KINGSTON	RTE 231	60+59.00	60+70.00	LT	11	-	-	-	-	-	1.0	SILT FENCE
					TABLE 3 SUBTOTAL		1,065	-	-	-	-	-	11.0	-

SUMMARY OF QUANTITIES
SHEET 91 OF 106

LAYOUT	NS	01/2025
DRAWN	SMC	01/2025
REVIEWED	DJK	01/2025

STATE OF MISSOURI
DENNIS J KOSCIELSKI
NUMBER PE-2005000712
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED
7/25/2025

ROUTE	STATE
231	MO

DISTRICT	SHEET NO.
SL	3

COUNTY
ST. LOUIS

JOB NO.
J6S3631

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION	DATE

IF A SEAL IS PRESENT ON THIS SHEET, IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

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600 Washington Ave., Suite 950
St. Louis, Missouri 63101
Professional Engineer 001632
www.hansonsite.com
314.770.0467

EROSION CONTROL (CONT.)

SHEET NO.	EROSION CONTROL SHEET NO.	ROADWAY	CENTER LINE	STATION FROM	STATION TO	LOCATION	SILT FENCE (LF)	TEMPORARY SEEDING (ACRE)	MULCHING (ACRE)	ADDITIONAL MOBILIZATION FOR SEEDING (EACH)	CURB INLET CHECK (EACH)	ROCK DITCH CHECK (LF)	SEDIMENT REMOVAL (CY)	REMARKS
268	10 OF 31	RTE 231/KINGSTON	RTE 231	60+74.00	61+23.00	LT	47	-	-	-	-	-	1.0	SILT FENCE
268	10 OF 31	RTE 231/KINGSTON	RTE 231	61+28.00	61+31.00	LT	4	-	-	-	-	-	1.0	SILT FENCE
268	10 OF 31	RTE 231/KINGSTON	RTE 231	61+42.00	61+56.00	LT	14	-	-	-	-	-	1.0	SILT FENCE
268	10 OF 31	RTE 231/KINGSTON	RTE 231	61+64.00	61+77.00	LT	12	-	-	-	-	-	1.0	SILT FENCE
268	10 OF 31	RTE 231/KINGSTON	RTE 231	61+86.00	62+14.00	LT	27	-	-	-	-	-	1.0	SILT FENCE
268	10 OF 31	RTE 231/KINGSTON	RTE 231	62+18.00	62+21.00	LT	2	-	-	-	-	-	1.0	SILT FENCE
268	10 OF 31	RTE 231/KINGSTON	RTE 231	62+41.00	62+47.00	LT	6	-	-	-	-	-	1.0	SILT FENCE
268	10 OF 31	RTE 231/KINGSTON	RTE 231	62+52.00	63+00.00	LT	46	-	-	-	-	-	1.0	SILT FENCE
268	10 OF 31	RTE 231/KINGSTON	RTE 231	63+04.00	63+14.00	LT	10	-	-	-	-	-	1.0	SILT FENCE
268-269	10-11 OF 31	RTE 231/KINGSTON	RTE 231	63+37.00	63+72.00	LT	34	-	-	-	-	-	1.0	SILT FENCE
269	11 OF 31	RTE 231/KINGSTON	RTE 231	63+67.00	64+05.00	RT	40	-	-	-	-	-	1.0	SILT FENCE
269	11 OF 31	RTE 231/KINGSTON	RTE 231	64+08.00	64+31.00	RT	24	-	-	-	-	-	1.0	SILT FENCE
269	11 OF 31	RTE 231/KINGSTON	RTE 231	64+36.00	64+72.00	RT	38	-	-	-	-	-	1.0	SILT FENCE
269	11 OF 31	RTE 231/KINGSTON	RTE 231	64+75.00	65+04.00	RT	31	-	-	-	-	-	1.0	SILT FENCE
269	11 OF 31	RTE 231/KINGSTON	RTE 231	65+07.00	65+39.00	RT	31	-	-	-	-	-	1.0	SILT FENCE
269	11 OF 31	RTE 231/KINGSTON	RTE 231	65+43.00	65+87.00	RT	45	-	-	-	-	-	1.0	SILT FENCE
269	11 OF 31	RTE 231/KINGSTON	RTE 231	65+91.00	66+23.00	RT	32	-	-	-	-	-	1.0	SILT FENCE
269	11 OF 31	RTE 231/KINGSTON	RTE 231	67+19.00	67+26.00	RT	7	-	-	-	-	-	1.0	SILT FENCE
269	11 OF 31	RTE 231/KINGSTON	RTE 231	68+04.00	68+28.00	RT	24	-	-	-	-	-	1.0	SILT FENCE
269	11 OF 31	RTE 231/KINGSTON	RTE 231	63+84.00	63+96.00	LT	12	-	-	-	-	-	1.0	SILT FENCE
269	11 OF 31	RTE 231/KINGSTON	RTE 231	64+00.00	64+36.00	LT	34	-	-	-	-	-	1.0	SILT FENCE
269	11 OF 31	RTE 231/KINGSTON	RTE 231	64+40.00	64+66.00	LT	37	-	-	-	-	-	1.0	SILT FENCE
269	11 OF 31	RTE 231/KINGSTON	RTE 231	64+70.00	64+74.00	LT	4	-	-	-	-	-	1.0	SILT FENCE
269	11 OF 31	RTE 231/KINGSTON	RTE 231	65+07.00	65+11.00	LT	4	-	-	-	-	-	1.0	SILT FENCE
269	11 OF 31	RTE 231/KINGSTON	RTE 231	65+16.00	65+24.00	LT	19	-	-	-	-	-	1.0	SILT FENCE
269	11 OF 31	RTE 231/KINGSTON	RTE 231	65+26.00	65+74.00	LT	52	-	-	-	-	-	1.0	SILT FENCE
269	11 OF 31	RTE 231/KINGSTON	RTE 231	65+78.00	66+12.00	LT	34	-	-	-	-	-	1.0	SILT FENCE
269	11 OF 31	RTE 231/KINGSTON	RTE 231	66+22.00	66+39.00	LT	17	-	-	-	-	-	1.0	SILT FENCE
269	11 OF 31	RTE 231/KINGSTON	RTE 231	67+05.00	67+53.00	LT	49	-	-	-	-	-	1.0	SILT FENCE
269	11 OF 31	RTE 231/KINGSTON	RTE 231	67+82.00	68+26.00	LT	45	-	-	-	-	-	1.0	SILT FENCE
270	12 OF 31	RTE 231/KINGSTON	RTE 231	68+75.00	69+04.00	RT	28	-	-	-	-	-	1.0	SILT FENCE
270	12 OF 31	RTE 231/KINGSTON	RTE 231	70+33.00	70+53.00	RT	20	-	-	-	-	-	1.0	SILT FENCE
270	12 OF 31	RTE 231/KINGSTON	RTE 231	72+46.00	72+66.00	RT	20	-	-	-	-	-	1.0	SILT FENCE
270	12 OF 31	RTE 231/KINGSTON	RTE 231	72+94.00	73+07.00	RT	13	-	-	-	-	-	1.0	SILT FENCE
270	12 OF 31	RTE 231/KINGSTON	RTE 231	69+64.00	69+99.00	LT	35	-	-	-	-	-	1.0	SILT FENCE
270	12 OF 31	RTE 231/KINGSTON	RTE 231	70+35.00	70+61.00	LT	26	-	-	-	-	-	1.0	SILT FENCE
270	12 OF 31	RTE 231/KINGSTON	RTE 231	72+24.00	72+69.00	LT	46	-	-	-	-	-	1.0	SILT FENCE
270	12 OF 31	RTE 231/KINGSTON	RTE 231	73+00.00	73+20.00	LT	28	-	-	-	-	-	1.0	SILT FENCE
271	13 OF 31	RTE 231/KINGSTON	RTE 231	73+91.00	74+05.00	RT	14	-	-	-	-	-	1.0	SILT FENCE
271	13 OF 31	RTE 231/KINGSTON	RTE 231	74+40.00	74+56.00	RT	19	-	-	-	-	-	1.0	SILT FENCE
271	13 OF 31	RTE 231/KINGSTON	RTE 231	75+02.00	75+26.00	RT	25	-	-	-	-	-	1.0	SILT FENCE
271	13 OF 31	RTE 231/KINGSTON	RTE 231	75+11.00	75+46.00	LT	46	-	-	-	-	-	1.0	SILT FENCE
271	13 OF 31	RTE 231/KINGSTON	RTE 231	75+70.00	75+89.00	LT	31	-	-	-	-	-	1.0	SILT FENCE
271	13 OF 31	RTE 231/KINGSTON	RTE 231	77+98.00	78+12.00	LT	13	-	-	-	-	-	1.0	SILT FENCE
271	13 OF 31	RTE 231/KINGSTON	RTE 231	78+39.00	78+62.00	LT	37	-	-	-	-	-	1.0	SILT FENCE
272	14 OF 31	RTE 231/KINGSTON	RTE 231	79+35.00	79+58.00	RT	25	-	-	-	-	-	1.0	SILT FENCE
272	14 OF 31	RTE 231/KINGSTON	RTE 231	80+29.00	80+66.00	RT	37	-	-	-	-	-	1.0	SILT FENCE
272	14 OF 31	RTE 231/KINGSTON	RTE 231	83+76.00	84+00.00	RT	24	-	-	-	-	-	1.0	SILT FENCE
272	14 OF 31	RTE 231/KINGSTON	RTE 231	80+58.00	80+76.00	LT	38	-	-	-	-	-	1.0	SILT FENCE
272	14 OF 31	RTE 231/KINGSTON	RTE 231	80+80.00	80+85.00	LT	5	-	-	-	-	-	1.0	SILT FENCE
					TABLE 4 SUBTOTAL		1,312	-	-	-	-	-	14.0	-

SUMMARY OF QUANTITIES
SHEET 92 OF 106

LAYOUT	NS	01/2025
DRAWN	SMC	01/2025
REVIEWED	DJK	01/2025

STATE OF MISSOURI
DENNIS J KOSCIELSKI
NUMBER PE-2005000712
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED
7/25/2025

ROUTE	STATE
231	MO
DISTRICT	SHEET NO.
SL	3

COUNTY
ST. LOUIS

JOB NO.
J6S3631

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION

DATE

IF A SEAL IS PRESENT ON THIS SHEET, IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

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EROSION CONTROL (CONT.)

SHEET NO.	EROSION CONTROL SHEET NO.	ROADWAY	CENTER LINE	STATION FROM	STATION TO	LOCATION	SILT FENCE (LF)	TEMPORARY SEEDING (ACRE)	MULCHING (ACRE)	ADDITIONAL MOBILIZATION FOR SEEDING (EACH)	CURB INLET CHECK (EACH)	ROCK DITCH CHECK (LF)	SEDIMENT REMOVAL (CY)	REMARKS
272	14 OF 31	RTE 231/KINGSTON	RTE 231	81+10.00	81+42.00	LT	45	-	-	-	-	-	1.0	SILT FENCE
272	14 OF 31	RTE 231/KINGSTON	RTE 231	83+08.00	83+35.00	LT	29	-	-	-	-	-	1.0	SILT FENCE
272	14 OF 31	RTE 231/KINGSTON	RTE 231	83+61.00	85+85.00	LT	228	-	-	-	-	-	3.0	SILT FENCE
273	15 OF 31	RTE 231/KINGSTON	RTE 231	84+31.00	84+54.00	RT	23	-	-	-	-	-	1.0	SILT FENCE
273	15 OF 31	RTE 231/KINGSTON	RTE 231	86+63.00	86+88.00	RT	25	-	-	-	-	-	1.0	SILT FENCE
273	15 OF 31	RTE 231/KINGSTON	RTE 231	87+14.00	87+41.00	RT	28	-	-	-	-	-	1.0	SILT FENCE
273	15 OF 31	RTE 231/KINGSTON	RTE 231	86+11.00	88+41.00	LT	231	-	-	-	-	-	3.0	SILT FENCE
273	15 OF 31	RTE 231/KINGSTON	RTE 231	88+85.00	89+00.00	LT	22	-	-	-	-	-	1.0	SILT FENCE
274	16 OF 31	RTE 231/KINGSTON	RTE 231	91+08.00	92+97.00	RT	190	-	-	-	-	-	2.0	SILT FENCE
274	16 OF 31	RTE 231/KINGSTON	RTE 231	90+60.00	90+70.00	LT	10	-	-	-	-	-	1.0	SILT FENCE
274	16 OF 31	RTE 231/KINGSTON	RTE 231	91+50.00	91+92.00	LT	43	-	-	-	-	-	1.0	SILT FENCE
274	16 OF 31	RTE 231/KINGSTON	RTE 231	92+39.00	92+48.00	LT	9	-	-	-	-	-	1.0	SILT FENCE
274	16 OF 31	RTE 231/KINGSTON	RTE 231	92+58.00	93+16.00	LT	61	-	-	-	-	-	1.0	SILT FENCE
274	16 OF 31	RTE 231/KINGSTON	RTE 231	93+34.00	94+15.00	LT	83	-	-	-	-	-	1.0	SILT FENCE
275	17 OF 31	RTE 231/KINGSTON	RTE 231	95+88.00	96+71.00	RT	84	-	-	-	-	-	1.0	SILT FENCE
275	17 OF 31	RTE 231/KINGSTON	RTE 231	96+88.00	100+21.00	RT	274	-	-	-	-	-	3.0	SILT FENCE
275	17 OF 31	RTE 231/KINGSTON	RTE 231	94+37.00	95+17.00	LT	80	-	-	-	-	-	1.0	SILT FENCE
275	17 OF 31	RTE 231/KINGSTON	RTE 231	95+34.00	96+16.00	LT	85	-	-	-	-	-	1.0	SILT FENCE
275	17 OF 31	RTE 231/KINGSTON	RTE 231	96+32.00	97+16.00	LT	88	-	-	-	-	-	1.0	SILT FENCE
275	17 OF 31	RTE 231/KINGSTON	RTE 231	97+33.00	98+17.00	LT	86	-	-	-	-	-	1.0	SILT FENCE
275	17 OF 31	RTE 231/KINGSTON	RTE 231	98+32.00	99+16.00	LT	84	-	-	-	-	-	1.0	SILT FENCE
276	18 OF 31	RTE 231/BROADWAY	RTE 231	100+24.00	100+31.00	RT	27	-	-	-	-	-	1.0	SILT FENCE
276	18 OF 31	RTE 231/BROADWAY	RTE 231	100+73.00	101+60.00	RT	138	-	-	-	-	-	2.0	SILT FENCE
276	18 OF 31	RTE 231/BROADWAY	RTE 231	101+96.00	102+73.00	RT	82	-	-	-	-	-	1.0	SILT FENCE
276	18 OF 31	RTE 231/BROADWAY	RTE 231	103+07.00	104+05.00	RT	105	-	-	-	-	-	2.0	SILT FENCE
276	18 OF 31	RTE 231/BROADWAY	RTE 231	99+27.00	99+66.00	LT	40	-	-	-	-	-	1.0	SILT FENCE
276	18 OF 31	RTE 231/BROADWAY	RTE 231	99+76.00	100+85.00	LT	110	-	-	-	-	-	2.0	SILT FENCE
276	18 OF 31	RTE 231/BROADWAY	RTE 231	102+69.00	103+35.00	LT	63	-	-	-	-	-	1.0	SILT FENCE
276	18 OF 31	RTE 231/BROADWAY	RTE 231	103+63.00	104+17.00	LT	55	-	-	-	-	-	1.0	SILT FENCE
276	18 OF 31	RTE 231/BROADWAY	RTE 231	104+30.00	104+48.00	LT	19	-	-	-	-	-	1.0	SILT FENCE
277	19 OF 31	RTE 231/BROADWAY	RTE 231	104+74.00	104+97.00	RT	23	-	-	-	-	-	1.0	SILT FENCE
277	19 OF 31	RTE 231/BROADWAY	RTE 231	105+01.00	105+34.00	RT	33	-	-	-	-	-	1.0	SILT FENCE
277	19 OF 31	RTE 231/BROADWAY	RTE 231	105+57.00	105+96.00	RT	40	-	-	-	-	-	1.0	SILT FENCE
277	19 OF 31	RTE 231/BROADWAY	RTE 231	106+00.00	106+14.00	RT	15	-	-	-	-	-	1.0	SILT FENCE
277-278	19-20 OF 31	RTE 231/BROADWAY	RTE 231	109+42.00	109+66.00	RT	24	-	-	-	-	-	1.0	SILT FENCE
277	19 OF 31	RTE 231/BROADWAY	RTE 231	104+53.00	105+19.00	LT	68	-	-	-	-	-	1.0	SILT FENCE
277	19 OF 31	RTE 231/BROADWAY	RTE 231	105+31.00	105+42.00	LT	10	-	-	-	-	-	1.0	SILT FENCE
277	19 OF 31	RTE 231/BROADWAY	RTE 231	105+45.00	106+41.00	LT	99	-	-	-	-	-	1.0	SILT FENCE
277	19 OF 31	RTE 231/BROADWAY	RTE 231	106+61.00	107+76.00	LT	144	-	-	-	-	-	2.0	SILT FENCE
277	19 OF 31	RTE 231/BROADWAY	RTE 231	108+31.00	109+03.00	LT	97	-	-	-	-	-	1.0	SILT FENCE
277-278	19-20 OF 31	RTE 231/BROADWAY	RTE 231	109+15.00	109+70.00	LT	54	-	-	-	-	-	1.0	SILT FENCE
278	20 OF 31	RTE 231/BROADWAY	RTE 231	109+98.00	111+00.00	RT	102	-	-	-	-	-	2.0	SILT FENCE
278	20 OF 31	RTE 231/BROADWAY	RTE 231	112+59.00	113+09.00	RT	49	-	-	-	-	-	1.0	SILT FENCE
278	20 OF 31	RTE 231/BROADWAY	RTE 231	113+13.00	113+93.00	RT	80	-	-	-	-	-	1.0	SILT FENCE
278	20 OF 31	RTE 231/BROADWAY	RTE 231	110+91.00	111+48.00	LT	59	-	-	-	-	-	1.0	SILT FENCE
278	20 OF 31	RTE 231/BROADWAY	RTE 231	111+52.00	111+87.00	LT	36	-	-	-	-	-	1.0	SILT FENCE
278	20 OF 31	RTE 231/BROADWAY	RTE 231	112+03.00	112+59.00	LT	57	-	-	-	-	-	1.0	SILT FENCE
278	20 OF 31	RTE 231/BROADWAY	RTE 231	113+21.00	113+49.00	LT	30	-	-	-	-	-	1.0	SILT FENCE
278	20 OF 31	RTE 231/BROADWAY	RTE 231	113+73.00	113+98.00	LT	33	-	-	-	-	-	1.0	SILT FENCE
278	20 OF 31	RTE 231/BROADWAY	RTE 231	114+02.00	114+14.00	LT	12	-	-	-	-	-	1.0	SILT FENCE
						TABLE 5 SUBTOTAL	3,514	-	-	-	-	-	36.0	-

SUMMARY OF QUANTITIES
SHEET 93 OF 106

LAYOUT	NS	01/2025
DRAWN	SMC	01/2025
REVIEWED	DJK	01/2025

STATE OF MISSOURI
DENNIS J KOSCIELSKI
NUMBER PE-2005000712
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED
7/25/2025

ROUTE	STATE
231	MO
DISTRICT	SHEET NO.
SL	3

COUNTY
ST. LOUIS

JOB NO.
J6S3631

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION	DATE

IF A SEAL IS PRESENT ON THIS SHEET, IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
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314.770.0467

EROSION CONTROL (CONT.)

SHEET NO.	EROSION CONTROL SHEET NO.	ROADWAY	CENTER LINE	STATION FROM	STATION TO	LOCATION	SILT FENCE (LF)	TEMPORARY SEEDING (ACRE)	MULCHING (ACRE)	ADDITIONAL MOBILIZATION FOR SEEDING (EACH)	CURB INLET CHECK (EACH)	ROCK DITCH CHECK (LF)	SEDIMENT REMOVAL (CY)	REMARKS
278-279	20-21 OF 31	RTE 231/BROADWAY	RTE 231	114+23.00	114+56.00	LT	33	-	-	-	-	-	1.0	SILT FENCE
279	21 OF 31	RTE 231/BROADWAY	RTE 231	115+67.00	116+25.00	RT	86	-	-	-	-	-	1.0	SILT FENCE
279	21 OF 31	RTE 231/BROADWAY	RTE 231	118+88.00	118+98.00	RT	9	-	-	-	-	-	1.0	SILT FENCE
279	21 OF 31	RTE 231/BROADWAY	RTE 231	114+75.00	115+00.00	LT	25	-	-	-	-	-	1.0	SILT FENCE
279	21 OF 31	RTE 231/BROADWAY	RTE 231	115+03.00	115+41.00	LT	38	-	-	-	-	-	1.0	SILT FENCE
279	21 OF 31	RTE 231/BROADWAY	RTE 231	115+55.00	115+78.00	LT	25	-	-	-	-	-	1.0	SILT FENCE
279	21 OF 31	RTE 231/BROADWAY	RTE 231	115+82.00	115+95.00	LT	13	-	-	-	-	-	1.0	SILT FENCE
279	21 OF 31	RTE 231/BROADWAY	RTE 231	116+80.00	117+30.00	LT	59	-	-	-	-	-	1.0	SILT FENCE
279	21 OF 31	RTE 231/BROADWAY	RTE 231	117+34.00	117+49.00	LT	15	-	-	-	-	-	1.0	SILT FENCE
279	21 OF 31	RTE 231/BROADWAY	RTE 231	117+57.00	117+71.00	LT	14	-	-	-	-	-	1.0	SILT FENCE
279	21 OF 31	RTE 231/BROADWAY	RTE 231	117+75.00	118+17.00	LT	42	-	-	-	-	-	1.0	SILT FENCE
279	21 OF 31	RTE 231/BROADWAY	RTE 231	118+21.00	118+36.00	LT	15	-	-	-	-	-	1.0	SILT FENCE
279	21 OF 31	RTE 231/BROADWAY	RTE 231	118+68.00	118+80.00	LT	12	-	-	-	-	-	1.0	SILT FENCE
279	21 OF 31	RTE 231/BROADWAY	RTE 231	118+84.00	118+98.00	LT	14	-	-	-	-	-	1.0	SILT FENCE
279-280	21-22 OF 31	RTE 231/BROADWAY	RTE 231	119+66.00	119+94.00	LT	43	-	-	-	-	-	1.0	SILT FENCE
280	22 OF 31	RTE 231/BROADWAY	RTE 231	120+78.00	120+98.00	RT	20	-	-	-	-	-	1.0	SILT FENCE
280	22 OF 31	RTE 231/BROADWAY	RTE 231	121+08.00	121+32.00	RT	24	-	-	-	-	-	1.0	SILT FENCE
280	22 OF 31	RTE 231/BROADWAY	RTE 231	121+44.00	121+60.00	RT	16	-	-	-	-	-	1.0	SILT FENCE
280	22 OF 31	RTE 231/BROADWAY	RTE 231	121+63.00	121+76.00	RT	13	-	-	-	-	-	1.0	SILT FENCE
280	22 OF 31	RTE 231/BROADWAY	RTE 231	120+00.00	120+26.00	LT	26	-	-	-	-	-	1.0	SILT FENCE
280	22 OF 31	RTE 231/BROADWAY	RTE 231	120+32.00	120+90.00	LT	58	-	-	-	-	-	1.0	SILT FENCE
280	22 OF 31	RTE 231/BROADWAY	RTE 231	120+95.00	121+46.00	LT	51	-	-	-	-	-	1.0	SILT FENCE
280	22 OF 31	RTE 231/BROADWAY	RTE 231	121+51.00	121+78.00	LT	27	-	-	-	-	-	1.0	SILT FENCE
281	23 OF 31	RTE 231/BROADWAY	RTE 231	127+84.00	128+30.00	LT	68	-	-	-	-	-	1.0	SILT FENCE
282	24 OF 31	RTE 231/BROADWAY	RTE 231	130+72.00	130+98.00	RT	40	-	-	-	-	-	1.0	SILT FENCE
282	24 OF 31	RTE 231/BROADWAY	RTE 231	131+02.00	131+39.00	RT	36	-	-	-	-	-	1.0	SILT FENCE
282	24 OF 31	RTE 231/BROADWAY	RTE 231	132+26.00	132+87.00	RT	87	-	-	-	-	-	1.0	SILT FENCE
282	24 OF 31	RTE 231/BROADWAY	RTE 231	134+20.00	134+62.00	RT	44	-	-	-	-	-	1.0	SILT FENCE
282	24 OF 31	RTE 231/BROADWAY	RTE 231	134+65.00	134+80.00	RT	15	-	-	-	-	-	1.0	SILT FENCE
282	24 OF 31	RTE 231/BROADWAY	RTE 231	134+83.00	134+96.00	RT	13	-	-	-	-	-	1.0	SILT FENCE
282	24 OF 31	RTE 231/BROADWAY	RTE 231	134+99.00	135+49.00	RT	66	-	-	-	-	-	1.0	SILT FENCE
282	24 OF 31	RTE 231/BROADWAY	RTE 231	131+48.00	131+90.00	LT	76	-	-	-	-	-	1.0	SILT FENCE
282	24 OF 31	RTE 231/BROADWAY	RTE 231	131+94.00	132+49.00	LT	55	-	-	-	-	-	1.0	SILT FENCE
282	24 OF 31	RTE 231/BROADWAY	RTE 231	132+53.00	132+99.00	LT	46	-	-	-	-	-	1.0	SILT FENCE
282	24 OF 31	RTE 231/BROADWAY	RTE 231	133+03.00	133+43.00	LT	40	-	-	-	-	-	1.0	SILT FENCE
282	24 OF 31	RTE 231/BROADWAY	RTE 231	133+46.00	134+19.00	LT	118	-	-	-	-	-	2.0	SILT FENCE
282	24 OF 31	RTE 231/BROADWAY	RTE 231	134+44.00	134+72.00	LT	73	-	-	-	-	-	1.0	SILT FENCE
282-283	24-25 OF 31	RTE 231/BROADWAY	RTE 231	134+75.00	135+25.00	LT	50	-	-	-	-	-	1.0	SILT FENCE
283	25 OF 31	RTE 231/BROADWAY	RTE 231	135+54.00	135+60.00	RT	5	-	-	-	-	-	1.0	SILT FENCE
283	25 OF 31	RTE 231/BROADWAY	RTE 231	135+96.00	136+02.00	RT	9	-	-	-	-	-	1.0	SILT FENCE
283	25 OF 31	RTE 231/BROADWAY	RTE 231	137+72.00	137+90.00	RT	19	-	-	-	-	-	1.0	SILT FENCE
283	25 OF 31	RTE 231/BROADWAY	RTE 231	137+94.00	138+56.00	RT	57	-	-	-	-	-	1.0	SILT FENCE
283	25 OF 31	RTE 231/BROADWAY	RTE 231	138+60.00	139+84.00	RT	59	-	-	-	-	-	1.0	SILT FENCE
283-284	25-26 OF 31	RTE 231/BROADWAY	RTE 231	139+87.00	140+15.00	RT	55	-	-	-	-	-	1.0	SILT FENCE
283	25 OF 31	RTE 231/BROADWAY	RTE 231	135+29.00	135+61.00	LT	34	-	-	-	-	-	1.0	SILT FENCE
283	25 OF 31	RTE 231/BROADWAY	RTE 231	135+65.00	135+85.00	LT	22	-	-	-	-	-	1.0	SILT FENCE
283	25 OF 31	RTE 231/BROADWAY	RTE 231	135+88.00	136+01.00	LT	18	-	-	-	-	-	1.0	SILT FENCE
283	25 OF 31	RTE 231/BROADWAY	RTE 231	137+28.00	139+19.00	LT	225	-	-	-	-	-	3.0	SILT FENCE
284	26 OF 31	RTE 231/BROADWAY	RTE 231	142+69.00	143+12.00	RT	62	-	-	-	-	-	1.0	SILT FENCE
284	26 OF 31	RTE 231/BROADWAY	RTE 231	143+54.00	144+34.00	RT	100	-	-	-	-	-	1.0	SILT FENCE
						TABLE 6 SUBTOTAL	2,172	-	-	-	-	-	22.0	-

SUMMARY OF QUANTITIES
SHEET 94 OF 106

LAYOUT	NS	01/2025
DRAWN	SMC	01/2025
REVIEWED	DJK	01/2025

STATE OF MISSOURI
DENNIS J KOSCIELSKI
NUMBER PE-2005000712
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED
7/25/2025

ROUTE	STATE
231	MO
DISTRICT	SHEET NO.
SL	3

COUNTY
ST. LOUIS

JOB NO.
J6S3631

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION	DATE

IF A SEAL IS PRESENT ON THIS SHEET, IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

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Professional Engineer 001632
www.hansonengineer.com
314.770.0467

EROSION CONTROL (CONT.)

SHEET NO.	EROSION CONTROL SHEET NO.	ROADWAY	CENTER LINE	STATION FROM	STATION TO	LOCATION	SILT FENCE (LF)	TEMPORARY SEEDING (ACRE)	MULCHING (ACRE)	ADDITIONAL MOBILIZATION FOR SEEDING (EACH)	CURB INLET CHECK (EACH)	ROCK DITCH CHECK (LF)	SEDIMENT REMOVAL (CY)	REMARKS
284	26 OF 31	RTE 231/BROADWAY	RTE 231	141+95.00	142+55.00	LT	67	-	-	1	-	-	1.0	SILT FENCE
284-285	26-27 OF 31	RTE 231/BROADWAY	RTE 231	144+52.00	146+80.00	LT	229	-	-	-	-	-	3.0	SILT FENCE
285	27 OF 31	RTE 231/BROADWAY	RTE 231	148+61.00	149+31.00	LT	70	-	-	-	-	-	1.0	SILT FENCE
285-286	27-28 OF 31	RTE 231/BROADWAY	RTE 231	149+89.00	150+79.00	LT	90	-	-	-	-	-	1.0	SILT FENCE
286	28 OF 31	RTE 231/BROADWAY	RTE 231	153+57.00	153+82.00	LT	25	-	-	-	-	-	1.0	SILT FENCE
286	28 OF 31	RTE 231/BROADWAY	RTE 231	153+86.00	154+24.00	LT	39	-	-	-	-	-	1.0	SILT FENCE
287	29 OF 31	RTE 231/BROADWAY	RTE 231	155+65.00	156+30.00	LT	88	-	-	-	-	-	1.0	SILT FENCE
287	29 OF 31	RTE 231/BROADWAY	RTE 231	156+41.00	156+63.00	LT	22	-	-	-	-	-	1.0	SILT FENCE
287	29 OF 31	RTE 231/BROADWAY	RTE 231	156+67.00	157+02.00	LT	35	-	-	-	-	-	1.0	SILT FENCE
287	29 OF 31	RTE 231/BROADWAY	RTE 231	157+07.00	157+89.00	LT	80	-	-	-	-	-	1.0	SILT FENCE
287-288	29-30 OF 31	RTE 231/BROADWAY	RTE 231	158+25.00	161+28.00	LT	323	-	-	-	-	-	4.0	SILT FENCE
288	30 OF 31	RTE 231/BROADWAY	RTE 231	161+47.00	162+42.00	LT	111	-	-	-	-	-	2.0	SILT FENCE
288	30 OF 31	RTE 231/BROADWAY	RTE 231	162+47.00	162+86.00	LT	39	-	-	-	-	-	1.0	SILT FENCE
288	30 OF 31	RTE 231/BROADWAY	RTE 231	162+90.00	163+31.00	LT	41	-	-	-	-	-	1.0	SILT FENCE
288	30 OF 31	RTE 231/BROADWAY	RTE 231	163+35.00	163+82.00	LT	47	-	-	-	-	-	1.0	SILT FENCE
288	30 OF 31	RTE 231/BROADWAY	RTE 231	163+86.00	163+98.00	LT	12	-	-	-	-	-	1.0	SILT FENCE
288	30 OF 31	RTE 231/BROADWAY	RTE 231	165+24.00	165+35.00	RT	15	-	-	-	-	-	1.0	SILT FENCE
289	31 OF 31	RTE 231/BROADWAY	RTE 231	165+74.00	166+99.00	RT	146	-	-	-	-	-	2.0	SILT FENCE
289	31 OF 31	RTE 231/BROADWAY	RTE 231	166+52.00	166+98.00	RT	72	-	-	-	-	-	1.0	SILT FENCE
259	1 OF 31	RTE 231/TELEGRAPH	RTE 231	13+72.00	15+20.00	RT	-	0.0396	0.0396	-	-	-	-	TEMPORARY SEEDING
259	1 OF 31	RTE 231/TELEGRAPH	RTE 231	15+51.00	16+01.00	RT	-	0.0119	0.0119	-	-	-	-	TEMPORARY SEEDING
259	1 OF 31	RTE 231/TELEGRAPH	RTE 231	15+70.00	16+00.00	RT	-	0.0014	0.0014	-	-	-	-	TEMPORARY SEEDING
259	1 OF 31	RTE 231/TELEGRAPH	RTE 231	16+15.00	16+75.00	RT	-	0.0021	0.0021	-	-	-	-	TEMPORARY SEEDING
259	1 OF 31	RTE 231/TELEGRAPH	RTE 231	16+86.00	17+28.00	RT	-	0.0014	0.0014	-	-	-	-	TEMPORARY SEEDING
259-260	1-2 OF 31	RTE 231/TELEGRAPH	RTE 231	17+37.00	18+09.00	RT	-	0.0109	0.0109	-	-	-	-	TEMPORARY SEEDING
259	1 OF 31	RTE 231/TELEGRAPH	RTE 231	13+72.50	13+96.00	LT	-	0.0028	0.0028	-	-	-	-	TEMPORARY SEEDING
259	1 OF 31	RTE 231/TELEGRAPH	RTE 231	13+75.00	14+32.00	LT	-	0.0127	0.0127	-	-	-	-	TEMPORARY SEEDING
259	1 OF 31	RTE 231/TELEGRAPH	RTE 231	14+60.00	16+02.00	LT	-	0.0331	0.0331	-	-	-	-	TEMPORARY SEEDING
259	1 OF 31	RTE 231/TELEGRAPH	RTE 231	15+59.00	16+14.00	LT	-	0.0079	0.0079	-	-	-	-	TEMPORARY SEEDING
259	1 OF 31	RTE 231/TELEGRAPH	RTE 231	16+06.00	16+21.00	LT	-	0.0075	0.0075	-	-	-	-	TEMPORARY SEEDING
259	1 OF 31	RTE 231/TELEGRAPH	RTE 231	16+47.00	16+59.00	LT	-	0.0059	0.0059	-	-	-	-	TEMPORARY SEEDING
259-260	1-2 OF 31	RTE 231/TELEGRAPH	RTE 231	16+55.00	17+94.00	LT	-	0.0090	0.0090	-	-	-	-	TEMPORARY SEEDING
260	2 OF 31	RTE 231/TELEGRAPH	RTE 231	18+32.00	19+52.00	RT	-	0.0104	0.0104	-	-	-	-	TEMPORARY SEEDING
260	2 OF 31	RTE 231/TELEGRAPH	RTE 231	19+81.00	21+00.00	RT	-	0.0089	0.0089	-	-	-	-	TEMPORARY SEEDING
260	2 OF 31	RTE 231/TELEGRAPH	RTE 231	20+91.00	21+03.00	RT	-	0.0099	0.0099	-	-	-	-	TEMPORARY SEEDING
260	2 OF 31	RTE 231/TELEGRAPH	RTE 231	21+25.00	21+48.00	RT	-	0.0142	0.0142	-	-	-	-	TEMPORARY SEEDING
260	2 OF 31	RTE 231/TELEGRAPH	RTE 231	21+52.00	22+15.00	RT	-	0.0055	0.0055	-	-	-	-	TEMPORARY SEEDING
260	2 OF 31	RTE 231/TELEGRAPH	RTE 231	22+08.00	22+34.00	RT	-	0.0066	0.0066	-	-	-	-	TEMPORARY SEEDING
260-261	2-3 OF 31	RTE 231/TELEGRAPH	RTE 231	22+40.00	22+84.00	RT	-	0.0124	0.0124	-	-	-	-	TEMPORARY SEEDING
260	2 OF 31	RTE 231/TELEGRAPH	RTE 231	18+49.00	18+71.00	LT	-	0.0009	0.0009	-	-	-	-	TEMPORARY SEEDING
260	2 OF 31	RTE 231/TELEGRAPH	RTE 231	18+76.00	20+59.00	LT	-	0.0127	0.0127	-	-	-	-	TEMPORARY SEEDING
260	2 OF 31	RTE 231/TELEGRAPH	RTE 231	20+61.00	21+50.00	LT	-	0.0159	0.0159	-	-	-	-	TEMPORARY SEEDING
260	2 OF 31	RTE 231/TELEGRAPH	RTE 231	21+61.00	21+81.00	LT	-	0.0006	0.0006	-	-	-	-	TEMPORARY SEEDING
260-261	2-3 OF 31	RTE 231/TELEGRAPH	RTE 231	21+97.00	23+61.00	LT	-	0.0037	0.0037	-	-	-	-	TEMPORARY SEEDING
261	3 OF 31	RTE 231/TELEGRAPH	RTE 231	22+90.00	23+32.00	RT	-	0.0120	0.0120	-	-	-	-	TEMPORARY SEEDING
261	3 OF 31	RTE 231/TELEGRAPH	RTE 231	23+40.00	23+64.00	RT	-	0.0070	0.0070	-	-	-	-	TEMPORARY SEEDING
261	3 OF 31	RTE 231/TELEGRAPH	RTE 231	23+60.00	24+34.00	RT	-	0.0173	0.0173	-	-	-	-	TEMPORARY SEEDING
261	3 OF 31	RTE 231/TELEGRAPH	RTE 231	24+42.00	24+45.00	RT	-	0.0010	0.0010	-	-	-	-	TEMPORARY SEEDING
261	3 OF 31	RTE 231/TELEGRAPH	RTE 231	24+47.00	24+52.00	RT	-	0.0003	0.0003	-	-	-	-	TEMPORARY SEEDING
261	3 OF 31	RTE 231/TELEGRAPH	RTE 231	24+47.00	25+32.00	RT	-	0.0157	0.0157	-	-	-	-	TEMPORARY SEEDING
						TABLE 7 SUBTOTAL	1,550	0.3	0.3	1	-	-	26.0	-

SUMMARY OF QUANTITIES
SHEET 95 OF 106

LAYOUT	NS	01/2025
DRAWN	SMC	01/2025
REVIEWED	DJK	01/2025

DENNIS J KOSCIELSKI
NUMBER PE-2005000712
STATE OF MISSOURI
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED
7/25/2025

ROUTE	STATE
231	MO
DISTRICT	SHEET NO.
SL	3

COUNTY
ST. LOUIS

JOB NO.
J6S3631

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION	DATE

IF A SEAL IS PRESENT ON THIS SHEET, IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

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www.hanson-inc.com
314.770.0467

EROSION CONTROL (CONT.)

SHEET NO.	EROSION CONTROL SHEET NO.	ROADWAY	CENTER LINE	STATION FROM	STATION TO	LOCATION	SILT FENCE (LF)	TEMPORARY SEEDING (ACRE)	MULCHING (ACRE)	ADDITIONAL MOBILIZATION FOR SEEDING (EACH)	CURB INLET CHECK (EACH)	ROCK DITCH CHECK (LF)	SEDIMENT REMOVAL (CUYD)	REMARKS
261	3 OF 31	RTE 231/TELEGRAPH	RTE 231	25+48.00	25+81.00	RT	-	0.0017	0.0017	-	-	-	-	TEMPORARY SEEDING
261	3 OF 31	RTE 231/TELEGRAPH	RTE 231	25+85.00	26+02.00	RT	-	0.0118	0.0118	-	-	-	-	TEMPORARY SEEDING
261	3 OF 31	RTE 231/TELEGRAPH	RTE 231	26+26.00	26+40.00	RT	-	0.0064	0.0064	-	-	-	-	TEMPORARY SEEDING
261	3 OF 31	RTE 231/TELEGRAPH	RTE 231	26+26.00	26+95.00	RT	-	0.0144	0.0144	-	-	-	-	TEMPORARY SEEDING
261	3 OF 31	RTE 231/TELEGRAPH	RTE 231	27+03.00	27+49.00	RT	-	0.0070	0.0070	-	-	-	-	TEMPORARY SEEDING
261-262	3-4 OF 31	RTE 231/TELEGRAPH	RTE 231	27+71.00	28+77.00	RT	-	0.0032	0.0032	-	-	-	-	TEMPORARY SEEDING
261	3 OF 31	RTE 231/TELEGRAPH	RTE 231	23+73.00	23+80.00	LT	-	0.0003	0.0003	-	-	-	-	TEMPORARY SEEDING
261	3 OF 31	RTE 231/TELEGRAPH	RTE 231	23+95.00	24+66.00	LT	-	0.0019	0.0019	-	-	-	-	TEMPORARY SEEDING
261	3 OF 31	RTE 231/TELEGRAPH	RTE 231	24+93.00	25+99.00	LT	-	0.0036	0.0036	-	-	-	-	TEMPORARY SEEDING
261	3 OF 31	RTE 231/TELEGRAPH	RTE 231	26+30.00	27+41.00	LT	-	0.0078	0.0078	-	-	-	-	TEMPORARY SEEDING
261	3 OF 31	RTE 231/TELEGRAPH	RTE 231	27+43.00	27+92.00	LT	-	0.0044	0.0044	-	-	-	-	TEMPORARY SEEDING
262	4 OF 31	RTE 231/TELEGRAPH	RTE 231	29+05.00	29+73.00	RT	-	0.0045	0.0045	-	-	-	-	TEMPORARY SEEDING
262	4 OF 31	RTE 231/TELEGRAPH	RTE 231	29+83.00	30+43.00	RT	-	0.0031	0.0031	-	-	-	-	TEMPORARY SEEDING
262	4 OF 31	RTE 231/TELEGRAPH	RTE 231	30+65.00	30+86.00	RT	-	0.0015	0.0015	-	-	-	-	TEMPORARY SEEDING
262	4 OF 31	RTE 231/TELEGRAPH	RTE 231	31+06.00	32+08.00	RT	-	0.0036	0.0036	-	-	-	-	TEMPORARY SEEDING
262	4 OF 31	RTE 231/TELEGRAPH	RTE 231	32+28.00	32+82.00	RT	-	0.0036	0.0036	-	-	-	-	TEMPORARY SEEDING
262	4 OF 31	RTE 231/TELEGRAPH	RTE 231	28+22.00	29+48.00	LT	-	0.0024	0.0024	-	-	-	-	TEMPORARY SEEDING
262	4 OF 31	RTE 231/TELEGRAPH	RTE 231	29+85.00	30+00.00	LT	-	0.0031	0.0031	-	-	-	-	TEMPORARY SEEDING
262	4 OF 31	RTE 231/TELEGRAPH	RTE 231	29+97.00	31+04.00	LT	-	0.0092	0.0092	-	-	-	-	TEMPORARY SEEDING
262-263	4-5 OF 31	RTE 231/TELEGRAPH	RTE 231	31+36.00	34+96.00	LT	-	0.0221	0.0221	-	-	-	-	TEMPORARY SEEDING
263	5 OF 31	RTE 231/TELEGRAPH	RTE 231	33+03.00	33+55.00	RT	-	0.0022	0.0022	-	-	-	-	TEMPORARY SEEDING
263	5 OF 31	RTE 231/TELEGRAPH	RTE 231	33+67.00	33+75.00	RT	-	0.0006	0.0006	-	-	-	-	TEMPORARY SEEDING
264	6 OF 31	RTE 231/TELEGRAPH	RTE 231	34+35.00	34+99.00	RT	-	0.0022	0.0022	-	-	-	-	TEMPORARY SEEDING
264	6 OF 31	RTE 231/TELEGRAPH	RTE 231	35+38.00	35+93.00	RT	-	0.0022	0.0022	-	-	-	-	TEMPORARY SEEDING
264	6 OF 31	RTE 231/TELEGRAPH	RTE 231	36+22.00	37+46.00	RT	-	0.0067	0.0067	-	-	-	-	TEMPORARY SEEDING
263-264	5-6 OF 31	RTE 231/TELEGRAPH	RTE 231	37+95.00	40+19.00	RT	-	0.0446	0.0446	-	-	-	-	TEMPORARY SEEDING
264	6 OF 31	RTE 231/TELEGRAPH	RTE 231	35+49.00	35+60.00	LT	-	0.0009	0.0009	-	-	-	-	TEMPORARY SEEDING
264	6 OF 31	RTE 231/TELEGRAPH	RTE 231	36+04.00	36+16.00	LT	-	0.0027	0.0027	-	-	-	-	TEMPORARY SEEDING
264	6 OF 31	RTE 231/TELEGRAPH	RTE 231	36+47.00	37+48.00	LT	-	0.0118	0.0118	-	-	-	-	TEMPORARY SEEDING
264	6 OF 31	RTE 231/TELEGRAPH	RTE 231	36+46.00	37+53.00	LT	-	0.0149	0.0149	-	-	-	-	TEMPORARY SEEDING
263-264	5-6 OF 31	RTE 231/TELEGRAPH	RTE 231	37+96.00	38+41.00	LT	-	0.0044	0.0044	-	-	-	-	TEMPORARY SEEDING
263-264	5-6 OF 31	RTE 231/TELEGRAPH	RTE 231	37+96.00	38+44.00	LT	-	0.0066	0.0066	-	-	-	-	TEMPORARY SEEDING
264	6 OF 31	RTE 231/TELEGRAPH	RTE 231	40+16.00	40+27.00	RT	-	0.0032	0.0032	-	-	-	-	TEMPORARY SEEDING
264	6 OF 31	RTE 231/TELEGRAPH	RTE 231	40+67.00	40+73.00	RT	-	0.0019	0.0019	-	-	-	-	TEMPORARY SEEDING
264	6 OF 31	RTE 231/TELEGRAPH	RTE 231	40+76.00	41+15.00	RT	-	0.0054	0.0054	-	-	-	-	TEMPORARY SEEDING
264	6 OF 31	RTE 231/TELEGRAPH	RTE 231	41+45.00	41+78.00	RT	-	0.0030	0.0030	-	-	-	-	TEMPORARY SEEDING
264	6 OF 31	RTE 231/TELEGRAPH	RTE 231	42+10.00	42+17.00	RT	-	0.0005	0.0005	-	-	-	-	TEMPORARY SEEDING
264	6 OF 31	RTE 231/TELEGRAPH	RTE 231	38+96.00	39+94.00	LT	-	0.0250	0.0250	-	-	-	-	TEMPORARY SEEDING
264	6 OF 31	RTE 231/TELEGRAPH	RTE 231	39+93.00	40+07.00	LT	-	0.0140	0.0140	-	-	-	-	TEMPORARY SEEDING
264	6 OF 31	RTE 231/TELEGRAPH	RTE 231	40+35.00	40+74.00	LT	-	0.0092	0.0092	-	-	-	-	TEMPORARY SEEDING
264	6 OF 31	RTE 231/TELEGRAPH	RTE 231	40+80.00	40+91.00	LT	-	0.0004	0.0004	-	-	-	-	TEMPORARY SEEDING
264	6 OF 31	RTE 231/TELEGRAPH	RTE 231	39+88.00	39+99.00	LT	-	0.0008	0.0008	-	-	-	-	TEMPORARY SEEDING
265	7 OF 31	RTE 231/TELEGRAPH	RTE 231	45+23.00	45+58.00	RT	-	0.0062	0.0062	-	-	-	-	TEMPORARY SEEDING
265	7 OF 31	RTE 231/TELEGRAPH	RTE 231	43+28.00	43+82.00	LT	-	0.0058	0.0058	-	-	-	-	TEMPORARY SEEDING
265	7 OF 31	RTE 231/TELEGRAPH	RTE 231	43+98.00	44+10.00	LT	-	0.0018	0.0018	-	-	-	-	TEMPORARY SEEDING
265	7 OF 31	RTE 231/TELEGRAPH	RTE 231	44+27.00	44+46.00	LT	-	0.0027	0.0027	-	-	-	-	TEMPORARY SEEDING
265	7 OF 31	RTE 231/TELEGRAPH	RTE 231	44+52.00	44+75.00	LT	-	0.0033	0.0033	-	-	-	-	TEMPORARY SEEDING
265-266	7-8 OF 31	RTE 231/TELEGRAPH	RTE 231	48+15.00	50+47.00	LT	-	0.0230	0.0230	-	-	-	-	TEMPORARY SEEDING
266	8 OF 31	RTE 231/KINGSTON	RTE 231	48+74.00	50+39.00	RT	-	0.0214	0.0214	-	-	-	-	TEMPORARY SEEDING
266	8 OF 31	RTE 231/KINGSTON	RTE 231	50+44.00	50+93.00	RT	-	0.0100	0.0100	-	-	-	-	TEMPORARY SEEDING
						TABLE 8 SUBTOTAL	-	0.4	0.4	-	-	-	-	-

SUMMARY OF QUANTITIES
SHEET 96 OF 106

LAYOUT	NS	01/2025
DRAWN	SMC	01/2025
REVIEWED	DJK	01/2025

STATE OF MISSOURI
DENNIS J KOSCIELSKI
NUMBER PE-2005000712
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED
7/25/2025

ROUTE	STATE
231	MO

DISTRICT	SHEET NO.
SL	3

COUNTY
ST. LOUIS

JOB NO.
J6S3631

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION	DATE

IF A SEAL IS PRESENT ON THIS SHEET, IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

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EROSION CONTROL (CONT.)

SHEET NO.	EROSION CONTROL SHEET NO.	ROADWAY	CENTER LINE	STATION FROM	STATION TO	LOCATION	SILT FENCE (LF)	TEMPORARY SEEDING (ACRE)	MULCHING (ACRE)	ADDITIONAL MOBILIZATION FOR SEEDING (EACH)	CURB INLET CHECK (EACH)	ROCK DITCH CHECK (LF)	SEDIMENT REMOVAL (CUYD)	REMARKS
266	8 OF 31	RTE 231/KINGSTON	RTE 231	51+17.00	52+98.00	RT	-	0.0261	0.0261	-	-	-	-	TEMPORARY SEEDING
266	8 OF 31	RTE 231/KINGSTON	RTE 231	53+08.00	53+16.00	RT	-	0.0008	0.0008	-	-	-	-	TEMPORARY SEEDING
266-267	8-9 OF 31	RTE 231/KINGSTON	RTE 231	53+21.00	53+57.00	RT	-	0.0041	0.0041	-	-	-	-	TEMPORARY SEEDING
266	8 OF 31	RTE 231/KINGSTON	RTE 231	50+52.00	50+57.00	LT	-	0.0042	0.0042	-	-	-	-	TEMPORARY SEEDING
266	8 OF 31	RTE 231/KINGSTON	RTE 231	50+78.00	51+35.00	LT	-	0.0129	0.0129	-	-	-	-	TEMPORARY SEEDING
266	8 OF 31	RTE 231/KINGSTON	RTE 231	51+55.00	52+08.00	LT	-	0.0086	0.0086	-	-	-	-	TEMPORARY SEEDING
266	8 OF 31	RTE 231/KINGSTON	RTE 231	52+15.00	52+20.00	LT	-	0.0007	0.0007	-	-	-	-	TEMPORARY SEEDING
266	8 OF 31	RTE 231/KINGSTON	RTE 231	52+29.00	52+58.00	LT	-	0.0060	0.0060	-	-	-	-	TEMPORARY SEEDING
266	8 OF 31	RTE 231/KINGSTON	RTE 231	52+62.00	52+66.00	LT	-	0.0006	0.0006	-	-	-	-	TEMPORARY SEEDING
266	8 OF 31	RTE 231/KINGSTON	RTE 231	52+93.00	53+98.00	LT	-	0.0006	0.0006	-	-	-	-	TEMPORARY SEEDING
266-267	8-9 OF 31	RTE 231/KINGSTON	RTE 231	53+02.00	53+63.00	LT	-	0.0076	0.0076	-	-	-	-	TEMPORARY SEEDING
267	9 OF 31	RTE 231/KINGSTON	RTE 231	53+80.00	53+90.00	RT	-	0.0010	0.0010	-	-	-	-	TEMPORARY SEEDING
267	9 OF 31	RTE 231/KINGSTON	RTE 231	54+01.00	54+78.00	RT	-	0.0063	0.0063	-	-	-	-	TEMPORARY SEEDING
267	9 OF 31	RTE 231/KINGSTON	RTE 231	54+89.00	55+41.00	RT	-	0.0042	0.0042	-	-	-	-	TEMPORARY SEEDING
267	9 OF 31	RTE 231/KINGSTON	RTE 231	55+45.00	55+53.00	RT	-	0.0008	0.0008	-	-	-	-	TEMPORARY SEEDING
267	9 OF 31	RTE 231/KINGSTON	RTE 231	55+64.00	55+93.00	RT	-	0.0035	0.0035	-	-	-	-	TEMPORARY SEEDING
267	9 OF 31	RTE 231/KINGSTON	RTE 231	55+95.00	56+02.00	RT	-	0.0013	0.0013	-	-	-	-	TEMPORARY SEEDING
267	9 OF 31	RTE 231/KINGSTON	RTE 231	56+06.00	56+09.00	RT	-	0.0007	0.0007	-	-	-	-	TEMPORARY SEEDING
267	9 OF 31	RTE 231/KINGSTON	RTE 231	56+40.00	56+43.00	RT	-	0.0009	0.0009	-	-	-	-	TEMPORARY SEEDING
267	9 OF 31	RTE 231/KINGSTON	RTE 231	54+69.00	56+74.00	RT	-	0.0033	0.0033	-	-	-	-	TEMPORARY SEEDING
267	9 OF 31	RTE 231/KINGSTON	RTE 231	56+78.00	56+94.00	RT	-	0.0015	0.0015	-	-	-	-	TEMPORARY SEEDING
267	9 OF 31	RTE 231/KINGSTON	RTE 231	57+05.00	57+35.00	RT	-	0.0038	0.0038	-	-	-	-	TEMPORARY SEEDING
267	9 OF 31	RTE 231/KINGSTON	RTE 231	57+45.00	57+57.00	RT	-	0.0015	0.0015	-	-	-	-	TEMPORARY SEEDING
267	9 OF 31	RTE 231/KINGSTON	RTE 231	57+61.00	57+76.00	RT	-	0.0019	0.0019	-	-	-	-	TEMPORARY SEEDING
267	9 OF 31	RTE 231/KINGSTON	RTE 231	57+86.00	58+15.00	RT	-	0.0039	0.0039	-	-	-	-	TEMPORARY SEEDING
267-268	9-10 OF 31	RTE 231/KINGSTON	RTE 231	58+25.00	58+70.00	RT	-	0.0040	0.0040	-	-	-	-	TEMPORARY SEEDING
267	9 OF 31	RTE 231/KINGSTON	RTE 231	53+67.00	53+77.00	LT	-	0.0011	0.0011	-	-	-	-	TEMPORARY SEEDING
267	9 OF 31	RTE 231/KINGSTON	RTE 231	53+87.00	54+02.00	LT	-	0.0020	0.0020	-	-	-	-	TEMPORARY SEEDING
267	9 OF 31	RTE 231/KINGSTON	RTE 231	54+06.00	54+15.00	LT	-	0.0010	0.0010	-	-	-	-	TEMPORARY SEEDING
267	9 OF 31	RTE 231/KINGSTON	RTE 231	54+30.00	54+53.00	LT	-	0.0031	0.0031	-	-	-	-	TEMPORARY SEEDING
267	9 OF 31	RTE 231/KINGSTON	RTE 231	54+57.00	54+59.00	LT	-	0.0003	0.0003	-	-	-	-	TEMPORARY SEEDING
267	9 OF 31	RTE 231/KINGSTON	RTE 231	54+69.00	55+22.00	LT	-	0.0046	0.0046	-	-	-	-	TEMPORARY SEEDING
267	9 OF 31	RTE 231/KINGSTON	RTE 231	55+37.00	55+58.00	LT	-	0.0025	0.0025	-	-	-	-	TEMPORARY SEEDING
267	9 OF 31	RTE 231/KINGSTON	RTE 231	55+61.00	55+64.00	LT	-	0.0004	0.0004	-	-	-	-	TEMPORARY SEEDING
267	9 OF 31	RTE 231/KINGSTON	RTE 231	56+75.00	56+05.00	LT	-	0.0034	0.0034	-	-	-	-	TEMPORARY SEEDING
267	9 OF 31	RTE 231/KINGSTON	RTE 231	56+15.00	56+31.00	LT	-	0.0018	0.0018	-	-	-	-	TEMPORARY SEEDING
267	9 OF 31	RTE 231/KINGSTON	RTE 231	56+35.00	56+46.00	LT	-	0.0013	0.0013	-	-	-	-	TEMPORARY SEEDING
267	9 OF 31	RTE 231/KINGSTON	RTE 231	56+64.00	56+76.00	LT	-	0.0011	0.0011	-	-	-	-	TEMPORARY SEEDING
267	9 OF 31	RTE 231/KINGSTON	RTE 231	56+80.00	57+24.00	LT	-	0.0037	0.0037	-	-	-	-	TEMPORARY SEEDING
267	9 OF 31	RTE 231/KINGSTON	RTE 231	57+34.00	57+50.00	LT	-	0.0014	0.0014	-	-	-	-	TEMPORARY SEEDING
267	9 OF 31	RTE 231/KINGSTON	RTE 231	57+54.00	57+77.00	LT	-	0.0037	0.0037	-	-	-	-	TEMPORARY SEEDING
267	9 OF 31	RTE 231/KINGSTON	RTE 231	57+81.00	57+84.00	LT	-	0.0007	0.0007	-	-	-	-	TEMPORARY SEEDING
267	9 OF 31	RTE 231/KINGSTON	RTE 231	58+16.00	58+20.00	LT	-	0.0009	0.0009	-	-	-	-	TEMPORARY SEEDING
267	9 OF 31	RTE 231/KINGSTON	RTE 231	58+24.00	58+42.00	LT	-	0.0039	0.0039	-	-	-	-	TEMPORARY SEEDING
267-268	9-10 OF 31	RTE 231/KINGSTON	RTE 231	58+47.00	58+75.00	LT	-	0.0024	0.0024	-	-	-	-	TEMPORARY SEEDING
268	10 OF 31	RTE 231/KINGSTON	RTE 231	58+74.00	58+84.00	RT	-	0.0010	0.0010	-	-	-	-	TEMPORARY SEEDING
268	10 OF 31	RTE 231/KINGSTON	RTE 231	58+94.00	59+11.00	RT	-	0.0022	0.0022	-	-	-	-	TEMPORARY SEEDING
268	10 OF 31	RTE 231/KINGSTON	RTE 231	59+15.00	59+23.00	RT	-	0.0010	0.0010	-	-	-	-	TEMPORARY SEEDING
268	10 OF 31	RTE 231/KINGSTON	RTE 231	59+33.00	59+48.00	RT	-	0.0010	0.0010	-	-	-	-	TEMPORARY SEEDING
						TABLE 9 SUBTOTAL	-	0.2	0.2	-	-	-	-	-

SUMMARY OF QUANTITIES
SHEET 97 OF 106

LAYOUT	NS	01/2025
DRAWN	SMC	01/2025
REVIEWED	DJK	01/2025

STATE OF MISSOURI
DENNIS J KOSCIELSKI
NUMBER PE-2005000712
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED
7/25/2025

ROUTE	STATE
231	MO
DISTRICT	SHEET NO.
SL	3

COUNTY
ST. LOUIS

JOB NO.
J6S3631

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION

DATE

IF A SEAL IS PRESENT ON THIS SHEET, IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

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EROSION CONTROL (CONT.)

SHEET NO.	EROSION CONTROL SHEET NO.	ROADWAY	CENTER LINE	STATION FROM	STATION TO	LOCATION	SILT FENCE (LF)	TEMPORARY SEEDING (ACRE)	MULCHING (ACRE)	ADDITIONAL MOBILIZATION FOR SEEDING (EACH)	CURB INLET CHECK (EACH)	ROCK DITCH CHECK (LF)	SEDIMENT REMOVAL (CUYD)	REMARKS
268	10 OF 31	RTE 231/KINGSTON	RTE 231	59+52.00	59+62.00	RT	-	0.0007	0.0007	-	-	-	-	TEMPORARY SEEDING
268	10 OF 31	RTE 231/KINGSTON	RTE 231	59+72.00	59+87.00	RT	-	0.0010	0.0010	-	-	-	-	TEMPORARY SEEDING
268	10 OF 31	RTE 231/KINGSTON	RTE 231	59+91.00	60+00.00	RT	-	0.0011	0.0011	-	-	-	-	TEMPORARY SEEDING
268	10 OF 31	RTE 231/KINGSTON	RTE 231	60+18.00	60+38.00	RT	-	0.0026	0.0026	-	-	-	-	TEMPORARY SEEDING
268	10 OF 31	RTE 231/KINGSTON	RTE 231	60+42.00	60+49.00	RT	-	0.0008	0.0008	-	-	-	-	TEMPORARY SEEDING
268	10 OF 31	RTE 231/KINGSTON	RTE 231	60+58.00	60+69.00	RT	-	0.0011	0.0011	-	-	-	-	TEMPORARY SEEDING
268	10 OF 31	RTE 231/KINGSTON	RTE 231	60+73.00	61+26.00	RT	-	0.0057	0.0057	-	-	-	-	TEMPORARY SEEDING
268	10 OF 31	RTE 231/KINGSTON	RTE 231	61+21.00	61+26.00	RT	-	0.0003	0.0003	-	-	-	-	TEMPORARY SEEDING
268	10 OF 31	RTE 231/KINGSTON	RTE 231	61+30.00	61+33.00	RT	-	0.0003	0.0003	-	-	-	-	TEMPORARY SEEDING
268	10 OF 31	RTE 231/KINGSTON	RTE 231	61+63.00	61+67.00	RT	-	0.0004	0.0004	-	-	-	-	TEMPORARY SEEDING
268	10 OF 31	RTE 231/KINGSTON	RTE 231	61+71.00	62+30.00	RT	-	0.0066	0.0066	-	-	-	-	TEMPORARY SEEDING
268	10 OF 31	RTE 231/KINGSTON	RTE 231	62+34.00	62+63.00	RT	-	0.0024	0.0024	-	-	-	-	TEMPORARY SEEDING
268	10 OF 31	RTE 231/KINGSTON	RTE 231	62+67.00	62+95.00	RT	-	0.0024	0.0024	-	-	-	-	TEMPORARY SEEDING
268	10 OF 31	RTE 231/KINGSTON	RTE 231	63+00.00	63+31.00	RT	-	0.0025	0.0025	-	-	-	-	TEMPORARY SEEDING
268-269	10-11 OF 31	RTE 231/KINGSTON	RTE 231	63+35.00	63+63.00	RT	-	0.0025	0.0025	-	-	-	-	TEMPORARY SEEDING
268	10 OF 31	RTE 231/KINGSTON	RTE 231	58+86.00	59+20.00	LT	-	0.0041	0.0041	-	-	-	-	TEMPORARY SEEDING
268	10 OF 31	RTE 231/KINGSTON	RTE 231	59+30.00	59+64.00	LT	-	0.0043	0.0043	-	-	-	-	TEMPORARY SEEDING
268	10 OF 31	RTE 231/KINGSTON	RTE 231	59+75.00	60+22.00	LT	-	0.0041	0.0041	-	-	-	-	TEMPORARY SEEDING
268	10 OF 31	RTE 231/KINGSTON	RTE 231	60+27.00	60+39.00	LT	-	0.0012	0.0012	-	-	-	-	TEMPORARY SEEDING
268	10 OF 31	RTE 231/KINGSTON	RTE 231	60+59.00	60+70.00	LT	-	0.0011	0.0011	-	-	-	-	TEMPORARY SEEDING
268	10 OF 31	RTE 231/KINGSTON	RTE 231	60+74.00	61+23.00	LT	-	0.0037	0.0037	-	-	-	-	TEMPORARY SEEDING
268	10 OF 31	RTE 231/KINGSTON	RTE 231	61+28.00	61+31.00	LT	-	0.0004	0.0004	-	-	-	-	TEMPORARY SEEDING
268	10 OF 31	RTE 231/KINGSTON	RTE 231	61+42.00	61+56.00	LT	-	0.0017	0.0017	-	-	-	-	TEMPORARY SEEDING
268	10 OF 31	RTE 231/KINGSTON	RTE 231	61+64.00	61+77.00	LT	-	0.0015	0.0015	-	-	-	-	TEMPORARY SEEDING
268	10 OF 31	RTE 231/KINGSTON	RTE 231	61+86.00	62+14.00	LT	-	0.0033	0.0033	-	-	-	-	TEMPORARY SEEDING
268	10 OF 31	RTE 231/KINGSTON	RTE 231	62+18.00	62+21.00	LT	-	0.0002	0.0002	-	-	-	-	TEMPORARY SEEDING
268	10 OF 31	RTE 231/KINGSTON	RTE 231	62+41.00	62+47.00	LT	-	0.0006	0.0006	-	-	-	-	TEMPORARY SEEDING
268	10 OF 31	RTE 231/KINGSTON	RTE 231	62+52.00	63+00.00	LT	-	0.0036	0.0036	-	-	-	-	TEMPORARY SEEDING
268	10 OF 31	RTE 231/KINGSTON	RTE 231	63+04.00	63+14.00	LT	-	0.0010	0.0010	-	-	-	-	TEMPORARY SEEDING
268-269	10-11 OF 31	RTE 231/KINGSTON	RTE 231	63+37.00	63+72.00	LT	-	0.0042	0.0042	-	-	-	-	TEMPORARY SEEDING
269	11 OF 31	RTE 231/KINGSTON	RTE 231	63+67.00	64+05.00	RT	-	0.0031	0.0031	-	-	-	-	TEMPORARY SEEDING
269	11 OF 31	RTE 231/KINGSTON	RTE 231	64+08.00	64+31.00	RT	-	0.0019	0.0019	-	-	-	-	TEMPORARY SEEDING
269	11 OF 31	RTE 231/KINGSTON	RTE 231	64+36.00	64+72.00	RT	-	0.0029	0.0029	-	-	-	-	TEMPORARY SEEDING
269	11 OF 31	RTE 231/KINGSTON	RTE 231	64+75.00	65+04.00	RT	-	0.0023	0.0023	-	-	-	-	TEMPORARY SEEDING
269	11 OF 31	RTE 231/KINGSTON	RTE 231	65+07.00	65+39.00	RT	-	0.0022	0.0022	-	-	-	-	TEMPORARY SEEDING
269	11 OF 31	RTE 231/KINGSTON	RTE 231	65+43.00	65+87.00	RT	-	0.0031	0.0031	-	-	-	-	TEMPORARY SEEDING
269	11 OF 31	RTE 231/KINGSTON	RTE 231	65+91.00	66+23.00	RT	-	0.0042	0.0042	-	-	-	-	TEMPORARY SEEDING
269	11 OF 31	RTE 231/KINGSTON	RTE 231	67+19.00	69+04.00	RT	-	0.0193	0.0193	-	-	-	-	TEMPORARY SEEDING
269-270	11-12 OF 31	RTE 231/KINGSTON	RTE 231	68+72.00	69+90.00	RT	-	0.0179	0.0179	-	-	-	-	TEMPORARY SEEDING
269	11 OF 31	RTE 231/KINGSTON	RTE 231	63+84.00	63+96.00	LT	-	0.0012	0.0012	-	-	-	-	TEMPORARY SEEDING
269	11 OF 31	RTE 231/KINGSTON	RTE 231	64+00.00	64+36.00	LT	-	0.0028	0.0028	-	-	-	-	TEMPORARY SEEDING
269	11 OF 31	RTE 231/KINGSTON	RTE 231	64+40.00	64+66.00	LT	-	0.0046	0.0046	-	-	-	-	TEMPORARY SEEDING
269	11 OF 31	RTE 231/KINGSTON	RTE 231	64+70.00	64+74.00	LT	-	0.0007	0.0007	-	-	-	-	TEMPORARY SEEDING
269	11 OF 31	RTE 231/KINGSTON	RTE 231	65+07.00	65+11.00	LT	-	0.0009	0.0009	-	-	-	-	TEMPORARY SEEDING
269	11 OF 31	RTE 231/KINGSTON	RTE 231	65+16.00	65+24.00	LT	-	0.0009	0.0009	-	-	-	-	TEMPORARY SEEDING
269	11 OF 31	RTE 231/KINGSTON	RTE 231	65+26.00	65+74.00	LT	-	0.0055	0.0055	-	-	-	-	TEMPORARY SEEDING
269	11 OF 31	RTE 231/KINGSTON	RTE 231	65+78.00	66+12.00	LT	-	0.0030	0.0030	-	-	-	-	TEMPORARY SEEDING
269	11 OF 31	RTE 231/KINGSTON	RTE 231	66+22.00	67+53.00	LT	-	0.0247	0.0247	-	-	-	-	TEMPORARY SEEDING
269	11 OF 31	RTE 231/KINGSTON	RTE 231	67+15.00	67+49.00	LT	-	0.0034	0.0034	-	-	-	-	TEMPORARY SEEDING
269-270	11-12 OF 31	RTE 231/KINGSTON	RTE 231	67+82.00	70+02.00	LT	-	0.0528	0.0528	-	-	-	-	TEMPORARY SEEDING
270	12 OF 31	RTE 231/KINGSTON	RTE 231	70+33.00	70+53.00	RT	-	0.0047	0.0047	-	-	-	-	TEMPORARY SEEDING
					TABLE 10 SUBTOTAL		-	0.2	0.2	-	-	-	-	-

SUMMARY OF QUANTITIES
SHEET 98 OF 106

LAYOUT	NS	01/2025
DRAWN	SMC	01/2025
REVIEWED	DJK	01/2025

STATE OF MISSOURI
DENNIS J KOSCIELSKI
NUMBER PE-2005000712
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED 7/25/2025
ROUTE 231 | STATE MO
DISTRICT SL | SHEET NO. 3
COUNTY ST. LOUIS
JOB NO. J6S3631
CONTRACT ID.
PROJECT NO.
BRIDGE NO.

DESCRIPTION | DATE

IF A SEAL IS PRESENT ON THIS SHEET, IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

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Professional Engineer 001632
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314.770.0467

EROSION CONTROL (CONT.)

SHEET NO.	EROSION CONTROL SHEET NO.	ROADWAY	CENTER LINE	STATION FROM	STATION TO	LOCATION	SILT FENCE (LF)	TEMPORARY SEEDING (ACRE)	MULCHING (ACRE)	ADDITIONAL MOBILIZATION FOR SEEDING (EACH)	CURB INLET CHECK (EACH)	ROCK DITCH CHECK (LF)	SEDIMENT REMOVAL (CUYD)	REMARKS
270	12 OF 31	RTE 231/KINGSTON	RTE 231	72+42.00	72+66.00	RT	-	0.0094	0.0094	-	-	-	-	TEMPORARY SEEDING
270-271	12-13 OF 31	RTE 231/KINGSTON	RTE 231	72+94.00	75+46.00	RT	-	0.0235	0.0235	-	-	-	-	TEMPORARY SEEDING
270	12 OF 31	RTE 231/KINGSTON	RTE 231	70+35.00	72+69.00	LT	-	0.0541	0.0541	-	-	-	-	TEMPORARY SEEDING
270-271	12-13 OF 31	RTE 231/KINGSTON	RTE 231	73+00.00	74+05.00	LT	-	0.0585	0.0585	-	-	-	-	TEMPORARY SEEDING
271	13 OF 31	RTE 231/KINGSTON	RTE 231	74+40.00	75+26.00	RT	-	0.0194	0.0194	-	-	-	-	TEMPORARY SEEDING
271-272	13-14 OF 31	RTE 231/KINGSTON	RTE 231	75+60.00	79+00.00	RT	-	0.0637	0.0637	-	-	-	-	TEMPORARY SEEDING
271	13 OF 31	RTE 231/KINGSTON	RTE 231	75+70.00	78+12.00	LT	-	0.0628	0.0628	-	-	-	-	TEMPORARY SEEDING
271-272	13-14 OF 31	RTE 231/KINGSTON	RTE 231	78+39.00	80+76.00	LT	-	0.0575	0.0575	-	-	-	-	TEMPORARY SEEDING
272	14 OF 31	RTE 231/KINGSTON	RTE 231	79+35.00	80+66.00	RT	-	0.0276	0.0276	-	-	-	-	TEMPORARY SEEDING
272-273	14-15 OF 31	RTE 231/KINGSTON	RTE 231	82+73.00	84+00.00	RT	-	0.0127	0.0127	-	-	-	-	TEMPORARY SEEDING
272	14 OF 31	RTE 231/KINGSTON	RTE 231	80+71.00	80+85.00	LT	-	0.0063	0.0063	-	-	-	-	TEMPORARY SEEDING
272	14 OF 31	RTE 231/KINGSTON	RTE 231	81+10.00	83+35.00	LT	-	0.0516	0.0516	-	-	-	-	TEMPORARY SEEDING
272-273	14-15 OF 31	RTE 231/KINGSTON	RTE 231	83+61.00	85+85.00	LT	-	0.0710	0.0710	-	-	-	-	TEMPORARY SEEDING
273	15 OF 31	RTE 231/KINGSTON	RTE 231	84+31.00	86+88.00	RT	-	0.0332	0.0332	-	-	-	-	TEMPORARY SEEDING
273-274	15-16 OF 31	RTE 231/KINGSTON	RTE 231	87+14.00	90+83.00	RT	-	0.0749	0.0749	-	-	-	-	TEMPORARY SEEDING
273	15 OF 31	RTE 231/KINGSTON	RTE 231	86+11.00	88+41.00	LT	-	0.0537	0.0537	-	-	-	-	TEMPORARY SEEDING
273-274	15-16 OF 31	RTE 231/KINGSTON	RTE 231	88+85.00	90+70.00	LT	-	0.0411	0.0411	-	-	-	-	TEMPORARY SEEDING
274	16 OF 31	RTE 231/KINGSTON	RTE 231	91+08.00	92+97.00	RT	-	0.0107	0.0107	-	-	-	-	TEMPORARY SEEDING
274	16 OF 31	RTE 231/KINGSTON	RTE 231	93+27.00	93+65.00	RT	-	0.0039	0.0039	-	-	-	-	TEMPORARY SEEDING
274	16 OF 31	RTE 231/KINGSTON	RTE 231	93+90.00	94+19.00	RT	-	0.0028	0.0028	-	-	-	-	TEMPORARY SEEDING
274	16 OF 31	RTE 231/KINGSTON	RTE 231	91+50.00	91+92.00	LT	-	0.0104	0.0104	-	-	-	-	TEMPORARY SEEDING
274	16 OF 31	RTE 231/KINGSTON	RTE 231	92+39.00	92+48.00	LT	-	0.0025	0.0025	-	-	-	-	TEMPORARY SEEDING
274	16 OF 31	RTE 231/KINGSTON	RTE 231	92+58.00	93+16.00	LT	-	0.0191	0.0191	-	-	-	-	TEMPORARY SEEDING
274	16 OF 31	RTE 231/KINGSTON	RTE 231	93+34.00	94+15.00	LT	-	0.0267	0.0267	-	-	-	-	TEMPORARY SEEDING
275	17 OF 31	RTE 231/KINGSTON	RTE 231	94+75.00	95+28.00	RT	-	0.0032	0.0032	-	-	-	-	TEMPORARY SEEDING
275-276	17-18 OF 31	RTE 231/KINGSTON	RTE 231	95+88.00	100+21.00	RT	-	0.1239	0.1239	-	-	-	-	TEMPORARY SEEDING
275	17 OF 31	RTE 231/KINGSTON	RTE 231	94+37.00	95+17.00	LT	-	0.0260	0.0260	-	-	-	-	TEMPORARY SEEDING
275	17 OF 31	RTE 231/KINGSTON	RTE 231	95+34.00	96+16.00	LT	-	0.0264	0.0264	-	-	-	-	TEMPORARY SEEDING
275	17 OF 31	RTE 231/KINGSTON	RTE 231	96+32.00	97+16.00	LT	-	0.0267	0.0267	-	-	-	-	TEMPORARY SEEDING
275	17 OF 31	RTE 231/KINGSTON	RTE 231	97+33.00	98+17.00	LT	-	0.0265	0.0265	-	-	-	-	TEMPORARY SEEDING
275	17 OF 31	RTE 231/KINGSTON	RTE 231	98+32.00	99+16.00	LT	-	0.0235	0.0235	-	-	-	-	TEMPORARY SEEDING
276	18 OF 31	RTE 231/BROADWAY	RTE 231	99+65.00	100+07.00	RT	-	0.0043	0.0043	-	-	-	-	TEMPORARY SEEDING
276	18 OF 31	RTE 231/BROADWAY	RTE 231	100+00.00	100+33.00	RT	-	0.0110	0.0110	-	-	-	-	TEMPORARY SEEDING
276	18 OF 31	RTE 231/BROADWAY	RTE 231	100+68.00	100+86.00	RT	-	0.0043	0.0043	-	-	-	-	TEMPORARY SEEDING
276	18 OF 31	RTE 231/BROADWAY	RTE 231	100+80.00	100+86.00	RT	-	0.0005	0.0005	-	-	-	-	TEMPORARY SEEDING
276	18 OF 31	RTE 231/BROADWAY	RTE 231	100+73.00	101+60.00	RT	-	0.0055	0.0055	-	-	-	-	TEMPORARY SEEDING
276	18 OF 31	RTE 231/BROADWAY	RTE 231	101+94.00	102+76.00	RT	-	0.0826	0.0826	-	-	-	-	TEMPORARY SEEDING
276	18 OF 31	RTE 231/BROADWAY	RTE 231	103+01.00	104+10.00	RT	-	0.0183	0.0183	-	-	-	-	TEMPORARY SEEDING
276	18 OF 31	RTE 231/BROADWAY	RTE 231	99+27.00	99+66.00	LT	-	0.0111	0.0111	-	-	-	-	TEMPORARY SEEDING
276	18 OF 31	RTE 231/BROADWAY	RTE 231	99+76.00	100+85.00	LT	-	0.0103	0.0103	-	-	-	-	TEMPORARY SEEDING
276	18 OF 31	RTE 231/BROADWAY	RTE 231	101+19.00	101+93.00	LT	-	0.0058	0.0058	-	-	-	-	TEMPORARY SEEDING
276	18 OF 31	RTE 231/BROADWAY	RTE 231	102+26.00	102+47.00	LT	-	0.0020	0.0020	-	-	-	-	TEMPORARY SEEDING
276	18 OF 31	RTE 231/BROADWAY	RTE 231	102+69.00	103+47.00	LT	-	0.0033	0.0033	-	-	-	-	TEMPORARY SEEDING
276	18 OF 31	RTE 231/BROADWAY	RTE 231	103+63.00	104+17.00	LT	-	0.0015	0.0015	-	-	-	-	TEMPORARY SEEDING
276	18 OF 31	RTE 231/BROADWAY	RTE 231	104+30.00	104+48.00	LT	-	0.0016	0.0016	-	-	-	-	TEMPORARY SEEDING
277	19 OF 31	RTE 231/BROADWAY	RTE 231	104+74.00	104+97.00	RT	-	0.0012	0.0012	-	-	-	-	TEMPORARY SEEDING
277	19 OF 31	RTE 231/BROADWAY	RTE 231	105+01.00	105+34.00	RT	-	0.0017	0.0017	-	-	-	-	TEMPORARY SEEDING
277	19 OF 31	RTE 231/BROADWAY	RTE 231	105+57.00	105+96.00	RT	-	0.0015	0.0015	-	-	-	-	TEMPORARY SEEDING
277	19 OF 31	RTE 231/BROADWAY	RTE 231	106+00.00	106+14.00	RT	-	0.0007	0.0007	-	-	-	-	TEMPORARY SEEDING
277-278	19-20 OF 31	RTE 231/BROADWAY	RTE 231	109+42.00	109+66.00	RT	-	0.0011	0.0011	-	-	-	-	TEMPORARY SEEDING
					TABLE 11 SUBTOTAL		-	1.2	1.2	-	-	-	-	-

SUMMARY OF QUANTITIES
SHEET 99 OF 106

LAYOUT	NS	01/2025
DRAWN	SMC	01/2025
REVIEWED	DJK	01/2025

STATE OF MISSOURI
DENNIS J KOSCIELSKI
NUMBER PE-2005000712
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED
7/25/2025

ROUTE	STATE
231	MO

DISTRICT	SHEET NO.
SL	3

COUNTY
ST. LOUIS

JOB NO.
J6S3631

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DATE	DESCRIPTION

IF A SEAL IS PRESENT ON THIS SHEET, IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

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EROSION CONTROL (CONT.)

SHEET NO.	EROSION CONTROL SHEET NO.	ROADWAY	CENTER LINE	STATION FROM	STATION TO	LOCATION	SILT FENCE (LF)	TEMPORARY SEEDING (ACRE)	MULCHING (ACRE)	ADDITIONAL MOBILIZATION FOR SEEDING (EACH)	CURB INLET CHECK (EACH)	ROCK DITCH CHECK (LF)	SEDIMENT REMOVAL (CUYD)	REMARKS
277	19 OF 31	RTE 231/BROADWAY	RTE 231	104+53.00	105+19.00	LT	-	0.0055	0.0055	1	-	-	-	TEMPORARY SEEDING
277	19 OF 31	RTE 231/BROADWAY	RTE 231	105+31.00	105+42.00	LT	-	0.0010	0.0010	-	-	-	-	TEMPORARY SEEDING
277	19 OF 31	RTE 231/BROADWAY	RTE 231	105+45.00	106+41.00	LT	-	0.0068	0.0068	-	-	-	-	TEMPORARY SEEDING
277	19 OF 31	RTE 231/BROADWAY	RTE 231	106+61.00	107+76.00	LT	-	0.0099	0.0099	-	-	-	-	TEMPORARY SEEDING
277	19 OF 31	RTE 231/BROADWAY	RTE 231	108+31.00	109+03.00	LT	-	0.0070	0.0070	-	-	-	-	TEMPORARY SEEDING
277-278	19-20 OF 31	RTE 231/BROADWAY	RTE 231	109+15.00	109+70.00	LT	-	0.0025	0.0025	-	-	-	-	TEMPORARY SEEDING
278	20 OF 31	RTE 231/BROADWAY	RTE 231	109+98.00	111+00.00	RT	-	0.0048	0.0048	-	-	-	-	TEMPORARY SEEDING
278	20 OF 31	RTE 231/BROADWAY	RTE 231	112+59.00	113+09.00	RT	-	0.0035	0.0035	-	-	-	-	TEMPORARY SEEDING
278	20 OF 31	RTE 231/BROADWAY	RTE 231	113+13.00	113+93.00	RT	-	0.0039	0.0039	-	-	-	-	TEMPORARY SEEDING
278	20 OF 31	RTE 231/BROADWAY	RTE 231	110+91.00	111+48.00	LT	-	0.0024	0.0024	-	-	-	-	TEMPORARY SEEDING
278	20 OF 31	RTE 231/BROADWAY	RTE 231	111+52.00	111+87.00	LT	-	0.0015	0.0015	-	-	-	-	TEMPORARY SEEDING
278	20 OF 31	RTE 231/BROADWAY	RTE 231	112+03.00	112+59.00	LT	-	0.0023	0.0023	-	-	-	-	TEMPORARY SEEDING
278	20 OF 31	RTE 231/BROADWAY	RTE 231	113+21.00	113+49.00	LT	-	0.0017	0.0017	-	-	-	-	TEMPORARY SEEDING
278	20 OF 31	RTE 231/BROADWAY	RTE 231	113+73.00	113+98.00	LT	-	0.0009	0.0009	-	-	-	-	TEMPORARY SEEDING
278	20 OF 31	RTE 231/BROADWAY	RTE 231	114+02.00	114+14.00	LT	-	0.0007	0.0007	-	-	-	-	TEMPORARY SEEDING
278-279	20-21 OF 31	RTE 231/BROADWAY	RTE 231	114+23.00	114+56.00	LT	-	0.0015	0.0015	-	-	-	-	TEMPORARY SEEDING
279	21 OF 31	RTE 231/BROADWAY	RTE 231	115+67.00	116+25.00	RT	-	0.0131	0.0131	-	-	-	-	TEMPORARY SEEDING
279	21 OF 31	RTE 231/BROADWAY	RTE 231	118+16.00	118+98.00	RT	-	0.0072	0.0072	-	-	-	-	TEMPORARY SEEDING
279	21 OF 31	RTE 231/BROADWAY	RTE 231	114+75.00	115+00.00	LT	-	0.0009	0.0009	-	-	-	-	TEMPORARY SEEDING
279	21 OF 31	RTE 231/BROADWAY	RTE 231	115+03.00	115+41.00	LT	-	0.0014	0.0014	-	-	-	-	TEMPORARY SEEDING
279	21 OF 31	RTE 231/BROADWAY	RTE 231	115+55.00	115+78.00	LT	-	0.0010	0.0010	-	-	-	-	TEMPORARY SEEDING
279	21 OF 31	RTE 231/BROADWAY	RTE 231	115+82.00	115+95.00	LT	-	0.0002	0.0002	-	-	-	-	TEMPORARY SEEDING
279	21 OF 31	RTE 231/BROADWAY	RTE 231	116+80.00	117+30.00	LT	-	0.0024	0.0024	-	-	-	-	TEMPORARY SEEDING
279	21 OF 31	RTE 231/BROADWAY	RTE 231	117+34.00	117+49.00	LT	-	0.0006	0.0006	-	-	-	-	TEMPORARY SEEDING
279	21 OF 31	RTE 231/BROADWAY	RTE 231	117+57.00	117+71.00	LT	-	0.0005	0.0005	-	-	-	-	TEMPORARY SEEDING
279	21 OF 31	RTE 231/BROADWAY	RTE 231	117+75.00	118+17.00	LT	-	0.0013	0.0013	-	-	-	-	TEMPORARY SEEDING
279	21 OF 31	RTE 231/BROADWAY	RTE 231	118+21.00	118+36.00	LT	-	0.0005	0.0005	-	-	-	-	TEMPORARY SEEDING
279	21 OF 31	RTE 231/BROADWAY	RTE 231	118+68.00	118+80.00	LT	-	0.0003	0.0003	-	-	-	-	TEMPORARY SEEDING
279	21 OF 31	RTE 231/BROADWAY	RTE 231	118+84.00	118+98.00	LT	-	0.0004	0.0004	-	-	-	-	TEMPORARY SEEDING
279-280	21-22 OF 31	RTE 231/BROADWAY	RTE 231	119+66.00	119+94.00	LT	-	0.0049	0.0049	-	-	-	-	TEMPORARY SEEDING
280	22 OF 31	RTE 231/BROADWAY	RTE 231	119+92.00	119+36.00	RT	-	0.0003	0.0003	-	-	-	-	TEMPORARY SEEDING
280	22 OF 31	RTE 231/BROADWAY	RTE 231	120+00.00	120+67.00	RT	-	0.0026	0.0026	-	-	-	-	TEMPORARY SEEDING
280	22 OF 31	RTE 231/BROADWAY	RTE 231	120+78.00	120+98.00	RT	-	0.0018	0.0018	-	-	-	-	TEMPORARY SEEDING
280	22 OF 31	RTE 231/BROADWAY	RTE 231	121+08.00	121+32.00	RT	-	0.0018	0.0018	-	-	-	-	TEMPORARY SEEDING
280	22 OF 31	RTE 231/BROADWAY	RTE 231	123+18.00	123+51.00	RT	-	0.0011	0.0011	-	-	-	-	TEMPORARY SEEDING
280	22 OF 31	RTE 231/BROADWAY	RTE 231	123+55.00	123+68.00	RT	-	0.0006	0.0006	-	-	-	-	TEMPORARY SEEDING
280	22 OF 31	RTE 231/BROADWAY	RTE 231	120+00.00	120+26.00	LT	-	0.0016	0.0016	-	-	-	-	TEMPORARY SEEDING
280	22 OF 31	RTE 231/BROADWAY	RTE 231	120+32.00	120+90.00	LT	-	0.0030	0.0030	-	-	-	-	TEMPORARY SEEDING
280	22 OF 31	RTE 231/BROADWAY	RTE 231	120+95.00	121+46.00	LT	-	0.0030	0.0030	-	-	-	-	TEMPORARY SEEDING
280	22 OF 31	RTE 231/BROADWAY	RTE 231	121+51.00	121+78.00	LT	-	0.0016	0.0016	-	-	-	-	TEMPORARY SEEDING
281	23 OF 31	RTE 231/BROADWAY	RTE 231	127+84.00	128+30.00	LT	-	0.0062	0.0062	-	-	-	-	TEMPORARY SEEDING
282	24 OF 31	RTE 231/BROADWAY	RTE 231	130+72.00	130+98.00	RT	-	0.0039	0.0039	-	-	-	-	TEMPORARY SEEDING
282	24 OF 31	RTE 231/BROADWAY	RTE 231	131+02.00	131+39.00	RT	-	0.0015	0.0015	-	-	-	-	TEMPORARY SEEDING
282	24 OF 31	RTE 231/BROADWAY	RTE 231	132+26.00	132+87.00	RT	-	0.0018	0.0018	-	-	-	-	TEMPORARY SEEDING
282	24 OF 31	RTE 231/BROADWAY	RTE 231	133+43.00	133+80.00	RT	-	0.0040	0.0040	-	-	-	-	TEMPORARY SEEDING
282	24 OF 31	RTE 231/BROADWAY	RTE 231	133+95.00	134+13.00	RT	-	0.0004	0.0004	-	-	-	-	TEMPORARY SEEDING
282	24 OF 31	RTE 231/BROADWAY	RTE 231	134+20.00	134+62.00	RT	-	0.0015	0.0015	-	-	-	-	TEMPORARY SEEDING
282	24 OF 31	RTE 231/BROADWAY	RTE 231	134+65.00	134+80.00	RT	-	0.0006	0.0006	-	-	-	-	TEMPORARY SEEDING
282	24 OF 31	RTE 231/BROADWAY	RTE 231	134+83.00	134+96.00	RT	-	0.0005	0.0005	-	-	-	-	TEMPORARY SEEDING
282-283	24-25 OF 31	RTE 231/BROADWAY	RTE 231	134+99.00	135+54.00	RT	-	0.0036	0.0036	-	-	-	-	TEMPORARY SEEDING
					TABLE 12 SUBTOTAL		-	0.1	0.1	1	-	-	-	-

SUMMARY OF QUANTITIES
SHEET 100 OF 106

LAYOUT	NS	01/2025
DRAWN	SMC	01/2025
REVIEWED	DJK	01/2025

STATE OF MISSOURI
DENNIS J KOSCIELSKI
NUMBER PE-2005000712
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED: 7/25/2025

ROUTE	STATE
231	MO

DISTRICT	SHEET NO.
SL	3

COUNTY: ST. LOUIS
JOB NO.: J6S3631
CONTRACT ID.:
PROJECT NO.:
BRIDGE NO.:

IF A SEAL IS PRESENT ON THIS SHEET, IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

DESCRIPTION	DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

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HANSON
Hanson Professional Services Inc.
600 Washington Ave., Suite 950
St. Louis, Missouri 63101
Professional Engineer 001632
www.hanson-inc.com
314.770.0467

EROSION CONTROL (CONT.)

SHEET NO.	EROSION CONTROL SHEET NO.	ROADWAY	CENTER LINE	STATION FROM	STATION TO	LOCATION	SILT FENCE (LF)	TEMPORARY SEEDING (ACRE)	MULCHING (ACRE)	ADDITIONAL MOBILIZATION FOR SEEDING (EACH)	CURB INLET CHECK (EACH)	ROCK DITCH CHECK (LF)	SEDIMENT REMOVAL (CY)	REMARKS
282	24 OF 31	RTE 231/BROADWAY	RTE 231	131+48.00	131+90.00	LT	-	0.0078	0.0078	-	-	-	-	TEMPORARY SEEDING
282	24 OF 31	RTE 231/BROADWAY	RTE 231	131+94.00	132+49.00	LT	-	0.0019	0.0019	-	-	-	-	TEMPORARY SEEDING
282	24 OF 31	RTE 231/BROADWAY	RTE 231	132+53.00	132+99.00	LT	-	0.0016	0.0016	-	-	-	-	TEMPORARY SEEDING
282	24 OF 31	RTE 231/BROADWAY	RTE 231	133+03.00	133+43.00	LT	-	0.0005	0.0005	-	-	-	-	TEMPORARY SEEDING
282	24 OF 31	RTE 231/BROADWAY	RTE 231	133+46.00	134+19.00	LT	-	0.0111	0.0111	-	-	-	-	TEMPORARY SEEDING
282	24 OF 31	RTE 231/BROADWAY	RTE 231	134+44.00	134+72.00	LT	-	0.0090	0.0090	-	-	-	-	TEMPORARY SEEDING
282-283	24-25 OF 31	RTE 231/BROADWAY	RTE 231	134+75.00	135+25.00	LT	-	0.0040	0.0040	-	-	-	-	TEMPORARY SEEDING
283	25 OF 31	RTE 231/BROADWAY	RTE 231	135+54.00	135+60.00	RT	-	0.0007	0.0007	-	-	-	-	TEMPORARY SEEDING
283	25 OF 31	RTE 231/BROADWAY	RTE 231	135+96.00	136+08.00	RT	-	0.0020	0.0020	-	-	-	-	TEMPORARY SEEDING
283	25 OF 31	RTE 231/BROADWAY	RTE 231	137+72.00	137+90.00	RT	-	0.0006	0.0006	-	-	-	-	TEMPORARY SEEDING
283	25 OF 31	RTE 231/BROADWAY	RTE 231	137+94.00	138+56.00	RT	-	0.0007	0.0007	-	-	-	-	TEMPORARY SEEDING
283	25 OF 31	RTE 231/BROADWAY	RTE 231	138+60.00	139+23.00	RT	-	0.0020	0.0020	-	-	-	-	TEMPORARY SEEDING
283	25 OF 31	RTE 231/BROADWAY	RTE 231	139+27.00	139+84.00	RT	-	0.0025	0.0025	-	-	-	-	TEMPORARY SEEDING
283-284	25-26 OF 31	RTE 231/BROADWAY	RTE 231	139+87.00	140+15.00	RT	-	0.0055	0.0055	-	-	-	-	TEMPORARY SEEDING
283	25 OF 31	RTE 231/BROADWAY	RTE 231	135+29.00	135+61.00	LT	-	0.0025	0.0025	-	-	-	-	TEMPORARY SEEDING
283	25 OF 31	RTE 231/BROADWAY	RTE 231	135+65.00	135+85.00	LT	-	0.0029	0.0029	-	-	-	-	TEMPORARY SEEDING
283	25 OF 31	RTE 231/BROADWAY	RTE 231	135+88.00	136+01.00	LT	-	0.0032	0.0032	-	-	-	-	TEMPORARY SEEDING
283	25 OF 31	RTE 231/BROADWAY	RTE 231	137+28.00	139+19.00	LT	-	0.0334	0.0334	-	-	-	-	TEMPORARY SEEDING
284	26 OF 31	RTE 231/BROADWAY	RTE 231	140+19.00	140+23.00	RT	-	0.0030	0.0030	-	-	-	-	TEMPORARY SEEDING
284	26 OF 31	RTE 231/BROADWAY	RTE 231	142+69.00	143+12.00	RT	-	0.0065	0.0065	-	-	-	-	TEMPORARY SEEDING
284	26 OF 31	RTE 231/BROADWAY	RTE 231	143+54.00	144+34.00	RT	-	0.0091	0.0091	-	-	-	-	TEMPORARY SEEDING
284	26 OF 31	RTE 231/BROADWAY	RTE 231	141+95.00	142+55.00	LT	-	0.0043	0.0043	-	-	-	-	TEMPORARY SEEDING
284-285	26-27 OF 31	RTE 231/BROADWAY	RTE 231	144+52.00	146+80.00	LT	-	0.0086	0.0086	-	-	-	-	TEMPORARY SEEDING
285	27 OF 31	RTE 231/BROADWAY	RTE 231	148+61.00	149+31.00	LT	-	0.0029	0.0029	-	-	-	-	TEMPORARY SEEDING
286	28 OF 31	RTE 231/BROADWAY	RTE 231	151+57.00	151+69.00	LT	-	0.0096	0.0096	-	-	-	-	TEMPORARY SEEDING
286	28 OF 31	RTE 231/BROADWAY	RTE 231	153+46.00	153+53.00	LT	-	0.0003	0.0003	-	-	-	-	TEMPORARY SEEDING
286	28 OF 31	RTE 231/BROADWAY	RTE 231	153+57.00	153+82.00	LT	-	0.0011	0.0011	-	-	-	-	TEMPORARY SEEDING
286	28 OF 31	RTE 231/BROADWAY	RTE 231	153+86.00	154+24.00	LT	-	0.0018	0.0018	-	-	-	-	TEMPORARY SEEDING
287	29 OF 31	RTE 231/BROADWAY	RTE 231	155+24.00	155+32.00	LT	-	0.0012	0.0012	-	-	-	-	TEMPORARY SEEDING
287	29 OF 31	RTE 231/BROADWAY	RTE 231	155+65.00	156+30.00	LT	-	0.0039	0.0039	-	-	-	-	TEMPORARY SEEDING
287	29 OF 31	RTE 231/BROADWAY	RTE 231	156+41.00	156+63.00	LT	-	0.0012	0.0012	-	-	-	-	TEMPORARY SEEDING
287	29 OF 31	RTE 231/BROADWAY	RTE 231	156+67.00	157+02.00	LT	-	0.0016	0.0016	-	-	-	-	TEMPORARY SEEDING
287	29 OF 31	RTE 231/BROADWAY	RTE 231	157+07.00	157+89.00	LT	-	0.0036	0.0036	-	-	-	-	TEMPORARY SEEDING
287-288	29-30 OF 31	RTE 231/BROADWAY	RTE 231	158+25.00	161+28.00	LT	-	0.0249	0.0249	-	-	-	-	TEMPORARY SEEDING
288	30 OF 31	RTE 231/BROADWAY	RTE 231	161+47.00	162+43.00	LT	-	0.0066	0.0066	-	-	-	-	TEMPORARY SEEDING
288	30 OF 31	RTE 231/BROADWAY	RTE 231	162+47.00	162+86.00	LT	-	0.0016	0.0016	-	-	-	-	TEMPORARY SEEDING
288	30 OF 31	RTE 231/BROADWAY	RTE 231	162+90.00	163+31.00	LT	-	0.0016	0.0016	-	-	-	-	TEMPORARY SEEDING
288	30 OF 31	RTE 231/BROADWAY	RTE 231	163+35.00	163+82.00	LT	-	0.0018	0.0018	-	-	-	-	TEMPORARY SEEDING
288	30 OF 31	RTE 231/BROADWAY	RTE 231	163+86.00	163+98.00	LT	-	0.0004	0.0004	-	-	-	-	TEMPORARY SEEDING
288	30 OF 31	RTE 231/BROADWAY	RTE 231	165+24.00	165+35.00	RT	-	0.0012	0.0012	-	-	-	-	TEMPORARY SEEDING
289	31 OF 31	RTE 231/BROADWAY	RTE 231	165+74.00	166+99.00	RT	-	0.0098	0.0098	-	-	-	-	TEMPORARY SEEDING
289	31 OF 31	RTE 231/BROADWAY	RTE 231	166+52.00	166+98.00	LT	-	0.0081	0.0081	-	-	-	-	TEMPORARY SEEDING
259	1 OF 31	RTE 231/TELEGRAPH	RTE 231	14+00.00	-	LT	-	-	-	-	1	-	1	CURB INLET CHECK
259	1 OF 31	RTE 231/TELEGRAPH	RTE 231	14+04.00	-	RT	-	-	-	-	1	-	1	CURB INLET CHECK
259	1 OF 31	RTE 231/TELEGRAPH	RTE 231	14+64.00	-	RT	-	-	-	-	1	-	1	CURB INLET CHECK
259	1 OF 31	RTE 231/TELEGRAPH	RTE 231	16+63.00	-	LT	-	-	-	-	1	-	1	CURB INLET CHECK
260	2 OF 31	RTE 231/TELEGRAPH	RTE 231	18+64.00	-	LT	-	-	-	-	1	-	1	CURB INLET CHECK
261	3 OF 31	RTE 231/TELEGRAPH	RTE 231	25+13.00	-	LT	-	-	-	-	1	-	1	CURB INLET CHECK
261	3 OF 31	RTE 231/TELEGRAPH	RTE 231	25+13.00	-	RT	-	-	-	-	1	-	1	CURB INLET CHECK
261	3 OF 31	RTE 231/TELEGRAPH	RTE 231	25+96.00	-	LT	-	-	-	-	1	-	1	CURB INLET CHECK
					TABLE 13 SUBTOTAL		-	0.2	0.2	-	8	-	8	-

SUMMARY OF QUANTITIES
SHEET 101 OF 106

LAYOUT	NS	01/2025
DRAWN	SMC	01/2025
REVIEWED	DJK	01/2025

STATE OF MISSOURI
DENNIS J KOSCIELSKI
NUMBER PE-2005000712
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED
7/25/2025

ROUTE	STATE
231	MO

DISTRICT	SHEET NO.
SL	3

COUNTY
ST. LOUIS

JOB NO.
J6S3631

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION	DATE

IF A SEAL IS PRESENT ON THIS SHEET, IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
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EROSION CONTROL (CONT.)

SHEET NO.	EROSION CONTROL SHEET NO.	ROADWAY	CENTER LINE	STATION FROM	STATION TO	LOCATION	SILT FENCE (LF)	TEMPORARY SEEDING (ACRE)	MULCHING (ACRE)	ADDITIONAL MOBILIZATION FOR SEEDING (EACH)	CURB INLET CHECK (EACH)	ROCK DITCH CHECK (LF)	SEDIMENT REMOVAL (CY)	REMARKS
261	3 OF 31	RTE 231/TELEGRAPH	RTE 231	26+44.00	-	RT	-	-	-	-	1	-	1	CURB INLET CHECK
262	4 OF 31	RTE 231/TELEGRAPH	RTE 231	32+81.00	-	LT	-	-	-	-	1	-	1	CURB INLET CHECK
263	5 OF 31	RTE 231/TELEGRAPH	RTE 231	33+07.00	-	RT	-	-	-	-	1	-	1	CURB INLET CHECK
263	5 OF 31	RTE 231/TELEGRAPH	RTE 231	36+48.00	-	RT	-	-	-	-	1	-	1	CURB INLET CHECK
263	5 OF 31	RTE 231/TELEGRAPH	RTE 231	36+52.00	-	LT	-	-	-	-	1	-	1	CURB INLET CHECK
264	6 OF 31	RTE 231/TELEGRAPH	RTE 231	41+96.00	-	LT	-	-	-	-	1	-	1	CURB INLET CHECK
265	7 OF 31	RTE 231/TELEGRAPH	RTE 231	43+64.00	-	LT	-	-	-	-	1	-	1	CURB INLET CHECK
265	7 OF 31	RTE 231/TELEGRAPH	RTE 231	45+10.00	-	LT	-	-	-	-	1	-	1	CURB INLET CHECK
265	7 OF 31	RTE 231/TELEGRAPH	RTE 231	45+68.00	-	LT	-	-	-	-	1	-	1	CURB INLET CHECK
265	7 OF 31	RTE 231/TELEGRAPH	RTE 231	46+52.00	-	LT	-	-	-	-	1	-	1	CURB INLET CHECK
265	7 OF 31	RTE 231/TELEGRAPH	RTE 231	47+88.00	-	LT	-	-	-	-	1	-	1	CURB INLET CHECK
267	9 OF 31	RTE 231/KINGSTON	RTE 231	56+06.00	-	RT	-	-	-	-	1	-	1	CURB INLET CHECK
269	11 OF 31	RTE 231/KINGSTON	RTE 231	66+12.00	-	LT	-	-	-	-	1	-	1	CURB INLET CHECK
271	13 OF 31	RTE 231/KINGSTON	RTE 231	76+00.00	-	LT	-	-	-	-	1	-	1	CURB INLET CHECK
272	14 OF 31	RTE 231/KINGSTON	RTE 231	78+81.00	-	LT	-	-	-	-	1	-	1	CURB INLET CHECK
272	14 OF 31	RTE 231/KINGSTON	RTE 231	80+52.00	-	LT	-	-	-	-	1	-	1	CURB INLET CHECK
273	16 OF 31	RTE 231/KINGSTON	RTE 231	90+64.00	-	LT	-	-	-	-	1	-	1	CURB INLET CHECK
273	16 OF 31	RTE 231/KINGSTON	RTE 231	90+97.00	-	LT	-	-	-	-	1	-	1	CURB INLET CHECK
273	16 OF 31	RTE 231/KINGSTON	RTE 231	90+99.00	-	LT	-	-	-	-	1	-	1	CURB INLET CHECK
273	16 OF 31	RTE 231/KINGSTON	RTE 231	91+86.00	-	LT	-	-	-	-	1	-	1	CURB INLET CHECK
273	16 OF 31	RTE 231/KINGSTON	RTE 231	92+40.00	-	LT	-	-	-	-	1	-	1	CURB INLET CHECK
275	17 OF 31	RTE 231/KINGSTON	RTE 231	94+99.00	-	LT	-	-	-	-	1	-	1	CURB INLET CHECK
275	17 OF 31	RTE 231/KINGSTON	RTE 231	96+97.00	-	LT	-	-	-	-	1	-	1	CURB INLET CHECK
275	17 OF 31	RTE 231/KINGSTON	RTE 231	98+73.00	-	RT	-	-	-	-	1	-	1	CURB INLET CHECK
275	17 OF 31	RTE 231/KINGSTON	RTE 231	98+97.00	-	LT	-	-	-	-	1	-	1	CURB INLET CHECK
276	18 OF 31	RTE 231/BROADWAY	RTE 231	99+83.00	-	RT	-	-	-	-	1	-	1	CURB INLET CHECK
276	18 OF 31	RTE 231/BROADWAY	RTE 231	101+89.00	-	LT	-	-	-	-	1	-	1	CURB INLET CHECK
276	18 OF 31	RTE 231/BROADWAY	RTE 231	102+60.00	-	RT	-	-	-	-	1	-	1	CURB INLET CHECK
276	18 OF 31	RTE 231/BROADWAY	RTE 231	103+06.00	-	LT	-	-	-	-	1	-	1	CURB INLET CHECK
276	18 OF 31	RTE 231/BROADWAY	RTE 231	103+29.00	-	LT	-	-	-	-	1	-	1	CURB INLET CHECK
276	18 OF 31	RTE 231/BROADWAY	RTE 231	103+51.00	-	LT	-	-	-	-	1	-	1	CURB INLET CHECK
276	18 OF 31	RTE 231/BROADWAY	RTE 231	103+95.00	-	RT	-	-	-	-	1	-	1	CURB INLET CHECK
277	19 OF 31	RTE 231/BROADWAY	RTE 231	107+75.00	-	LT	-	-	-	-	1	-	1	CURB INLET CHECK
277	19 OF 31	RTE 231/BROADWAY	RTE 231	107+89.00	-	LT	-	-	-	-	1	-	1	CURB INLET CHECK
277	19 OF 31	RTE 231/BROADWAY	RTE 231	108+24.00	-	LT	-	-	-	-	1	-	1	CURB INLET CHECK
277	19 OF 31	RTE 231/BROADWAY	RTE 231	108+60.00	-	LT	-	-	-	-	1	-	1	CURB INLET CHECK
277	19 OF 31	RTE 231/BROADWAY	RTE 231	108+70.00	-	RT	-	-	-	-	1	-	1	CURB INLET CHECK
278	20 OF 31	RTE 231/BROADWAY	RTE 231	110+40.00	-	LT	-	-	-	-	1	-	1	CURB INLET CHECK
278	20 OF 31	RTE 231/BROADWAY	RTE 231	110+58.00	-	RT	-	-	-	-	1	-	1	CURB INLET CHECK
278	20 OF 31	RTE 231/BROADWAY	RTE 231	113+43.00	-	LT	-	-	-	-	1	-	1	CURB INLET CHECK
278	20 OF 31	RTE 231/BROADWAY	RTE 231	113+76.00	-	LT	-	-	-	-	1	-	1	CURB INLET CHECK
279	22 OF 31	RTE 231/BROADWAY	RTE 231	122+15.00	-	RT	-	-	-	-	1	-	1	CURB INLET CHECK
279	22 OF 31	RTE 231/BROADWAY	RTE 231	122+32.00	-	LT	-	-	-	-	1	-	1	CURB INLET CHECK
279	22 OF 31	RTE 231/BROADWAY	RTE 231	122+70.00	-	LT	-	-	-	-	1	-	1	CURB INLET CHECK
284	26 OF 31	RTE 231/BROADWAY	RTE 231	141+59.00	-	LT	-	-	-	-	1	-	1	CURB INLET CHECK
284	26 OF 31	RTE 231/BROADWAY	RTE 231	141+96.00	-	LT	-	-	-	-	1	-	1	CURB INLET CHECK
288	30 OF 31	RTE 231/BROADWAY	RTE 231	164+64.00	-	LT	-	-	-	-	1	-	1	CURB INLET CHECK
288	30 OF 31	RTE 231/BROADWAY	RTE 231	164+64.00	-	RT	-	-	-	-	1	-	1	CURB INLET CHECK
288	30 OF 31	RTE 231/BROADWAY	RTE 231	164+74.00	-	LT	-	-	-	-	1	-	1	CURB INLET CHECK
288	30 OF 31	RTE 231/BROADWAY	RTE 231	164+74.00	-	RT	-	-	-	-	1	-	1	CURB INLET CHECK
						TABLE 14 SUBTOTAL	-	-	-	-	50	-	50	-

SUMMARY OF QUANTITIES
SHEET 102 OF 106

LAYOUT	NS	01/2025
DRAWN	SMC	01/2025
REVIEWED	DJK	01/2025

STATE OF MISSOURI
DENNIS J KOSCIELSKI
NUMBER PE-2005000712
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED
7/25/2025

ROUTE	STATE
231	MO
DISTRICT	SHEET NO.
SL	3

COUNTY
ST. LOUIS

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EROSION CONTROL (CONT.)

SHEET NO.	EROSION CONTROL SHEET NO.	ROADWAY	CENTER LINE	STATION FROM	STATION TO	LOCATION	SILT FENCE (LF)	TEMPORARY SEEDING (ACRE)	MULCHING (ACRE)	ADDITIONAL MOBILIZATION FOR SEEDING (EACH)	CURB INLET CHECK (EACH)	ROCK DITCH CHECK (LF)	SEDIMENT REMOVAL (CY)	REMARKS
289	31 OF 31	RTE 231/BROADWAY	RTE 231	165+96.00	-	LT	-	-	-	1	1	-	1	CURB INLET CHECK
289	31 OF 31	RTE 231/BROADWAY	RTE 231	166+01.00	-	LT	-	-	-	-	1	-	1	CURB INLET CHECK
289	31 OF 31	RTE 231/BROADWAY	RTE 231	166+10.00	-	RT	-	-	-	-	1	-	1	CURB INLET CHECK
289	31 OF 31	RTE 231/BROADWAY	RTE 231	166+16.00	-	RT	-	-	-	-	1	-	1	CURB INLET CHECK
269	11 OF 31	RTE 231/KINGSTON	RTE 231	66+55.00	67+05.00	LT	-	-	-	-	-	6	1	ROCK DITCH CHECK
269	11 OF 31	RTE 231/KINGSTON	RTE 231	67+26.00	68+04.00	RT	-	-	-	-	-	4	1	ROCK DITCH CHECK
269-270	11-12 OF 31	RTE 231/KINGSTON	RTE 231	68+26.00	69+64.00	LT	-	-	-	-	-	6	1	ROCK DITCH CHECK
270	12 OF 31	RTE 231/KINGSTON	RTE 231	69+04.00	69+74.00	RT	-	-	-	-	-	3	1	ROCK DITCH CHECK
270	12 OF 31	RTE 231/KINGSTON	RTE 231	70+60.00	72+24.00	LT	-	-	-	-	-	6	1	ROCK DITCH CHECK
270-271	12-13 OF 31	RTE 231/KINGSTON	RTE 231	73+07.00	73+91.00	RT	-	-	-	-	-	32	1	ROCK DITCH CHECK
270-271	12-13 OF 31	RTE 231/KINGSTON	RTE 231	73+21.00	75+11.00	LT	-	-	-	-	-	6	1	ROCK DITCH CHECK
271	13 OF 31	RTE 231/KINGSTON	RTE 231	75+83.00	78+83.00	RT	-	-	-	-	-	3	1	ROCK DITCH CHECK
271-272	13-14 OF 31	RTE 231/KINGSTON	RTE 231	75+89.00	77+98.00	LT	-	-	-	-	-	6	1	ROCK DITCH CHECK
271	13 OF 31	RTE 231/KINGSTON	RTE 231	78+62.00	80+58.00	LT	-	-	-	-	-	10	1	ROCK DITCH CHECK
271-272	13-14 OF 31	RTE 231/KINGSTON	RTE 231	79+58.00	80+29.00	RT	-	-	-	-	-	10	1	ROCK DITCH CHECK
272	14 OF 31	RTE 231/KINGSTON	RTE 231	81+42.00	83+08.00	LT	-	-	-	-	-	12	1	ROCK DITCH CHECK
272	14 OF 31	RTE 231/KINGSTON	RTE 231	82+73.00	83+76.00	RT	-	-	-	-	-	16	1	ROCK DITCH CHECK
272	14 OF 31	RTE 231/KINGSTON	RTE 231	84+02.00	85+54.00	LT	-	-	-	-	-	6	1	ROCK DITCH CHECK
273	15 OF 31	RTE 231/KINGSTON	RTE 231	84+54.00	86+62.00	RT	-	-	-	-	-	11	1	ROCK DITCH CHECK
273	15 OF 31	RTE 231/KINGSTON	RTE 231	86+51.00	88+19.00	LT	-	-	-	-	-	6	1	ROCK DITCH CHECK
273-274	15-16 OF 31	RTE 231/KINGSTON	RTE 231	87+41.00	90+78.00	RT	-	-	-	-	-	12	1	ROCK DITCH CHECK
273-274	15-16 OF 31	RTE 231/KINGSTON	RTE 231	89+00.00	90+60.00	LT	-	-	-	-	-	5	1	ROCK DITCH CHECK
						TABLE 15 SUBTOTAL	-	-	-	1	4	160	22	-

TABLE 1 SUBTOTAL	2,990	-	-	1	-	-	30.0
TABLE 2 SUBTOTAL	3,157	-	-	-	-	-	32.0
TABLE 3 SUBTOTAL	1,065	-	-	-	-	-	11.0
TABLE 4 SUBTOTAL	1,312	-	-	-	-	-	14.0
TABLE 5 SUBTOTAL	3,514	-	-	-	-	-	36.0
TABLE 6 SUBTOTAL	2,172	-	-	-	-	-	22.0
TABLE 7 SUBTOTAL	1,550	0.3	0.3	1	-	-	26.0
TABLE 8 SUBTOTAL	-	0.4	0.4	-	-	-	-
TABLE 9 SUBTOTAL	-	0.2	0.2	-	-	-	-
TABLE 10 SUBTOTAL	-	0.2	0.2	-	-	-	-
TABLE 11 SUBTOTAL	-	1.2	1.2	-	-	-	-
TABLE 12 SUBTOTAL	-	0.1	0.1	1	-	-	-
TABLE 13 SUBTOTAL	-	0.2	0.2	-	8	-	8
TABLE 14 SUBTOTAL	-	-	-	-	50	-	50
TABLE 15 SUBTOTAL	-	-	-	1	4	160	22
TOTAL	15,759	2.6	2.6	4	62	160	251
PAY TOTAL	**15,759**	**2.6**	**2.6**	**4**	**62**	**160**	**251**

CONTRACTOR FURNISHED SURVEYING AND STAKING	
PAYTOTAL	**1 LUMP SUM**

STATE OF MISSOURI
DENNIS J KOSCIELSKI
NUMBER PE-2005000712
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED 7/25/2025

ROUTE	STATE
231	MO
DISTRICT	SHEET NO.
SL	3

COUNTY: ST. LOUIS
JOB NO.: J6S3631
CONTRACT ID.:
PROJECT NO.:
BRIDGE NO.:

IF A SEAL IS PRESENT ON THIS SHEET, IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

DESCRIPTION	DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

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600 Washington Ave., Suite 950
St. Louis, Missouri 63101
Professional Engineer 001632
www.hanson-inc.com
314.770.0467

LAYOUT	NS	01/2025
DRAWN	SMC	01/2025
REVIEWED	DJK	01/2025

SUMMARY OF QUANTITIES
SHEET 103 OF 106

SUMMARY OF TRAFFIC SIGNAL PAY ITEMS

SHEET NO.	SIGNAL SHEET NO.	ROADWAY	CENTERLINE	LOCATION	SIGNAL HEAD, TYPE 3S	SIGNAL HEAD, TYPE 4S	SIGNAL HEAD, TYPE 3B	SIGNAL HEAD, TYPE 4B	SIGNAL HEAD, TYPE 5B	SIGNAL HEAD, TYPE 1S, PEDESTRIAN	SH-FLAT SHEET - SIGNAL SIGN	SIGNAL SIGN, MOUNTING HARDWARE	LUMINAIRE LED-A, 120 VOLT COMPATIBLE	POST, SIGNAL 4 FT.	POST, SIGNAL 8 FT.	POST, SIGNAL 15 FT.	POST, TYPE CL, 20 FT. ARM OR 6.1 M ARM	POST, TYPE CL, 25 FT. ARM OR 7.6 M ARM	POST, TYPE CL, 30 FT. ARM OR 9.1 M ARM	POST, TYPE CL, 40 FT. ARM OR 12.2 M ARM	POST, TYPE CL, 45 FT. ARM OR 13.7 M ARM	POST, TYPE CL, 50 FT. ARM OR 15.2 M ARM	POST, TYPE CL, 55 FT. ARM	POST, TYPE BL, LONGEST ARM 50 FT. OR 15.2 M	CONTROLLER ASSEMBLY HOUSING, NEMA TS2 CONTROLLER	ACCESSIBLE PEDESTRIAN SIGNAL	CONDUIT, 1 IN., LOOP DETECTOR WITH TRACER WIRE	REMARKS
					EA	EA	EA	EA	EA	EA	SF	EA	EA	EA	EA	EA	EA	EA	EA	EA	EA	EA	EA	EA	EA	(EA)	(LF)	
291-296	2-7 OF 43	RTE. 231 / TELEGRAPH RD	RTE. 231	CL	-	-	7	2	1	8	87	10	4	-	5	-	1	1	-	1	1	-	-	-	1	8	-	JEFFERSON BARRACKS RD.
297-302	8-13 OF 43	RTE. 231 / TELEGRAPH RD	RTE. 231	CL	3	1	5	1	-	9	100	14	1	-	5	1	-	-	-	-	-	-	-	1	-	9	-	TELEGRAPH RD.
303-308	9-19 OF 43	RTE. 231 / S BROADWAY ST	RTE. 231	CL	1	0	1	-	-	7	10	1	1	-	7	-	-	1	-	-	-	-	-	-	-	7	-	RIPA AVE.
308-314	20-25 OF 43	RTE. 231 / S BROADWAY ST	RTE. 231	CL	2	-	6	4	-	8	87	10	4	2	3	-	-	1	1	-	-	1	1	-	1	8	-	HOFFMEISTER
315-318	26-29 OF 43	RTE. 231 / S BROADWAY ST	RTE. 231	CL	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	52	RIVER CITY CASINO BLVD
			SUBTOTAL		6	1	19	7	1	32	284	35	10	2	20	1	1	3	1	1	1	1	1	1	2	32	52	
			PAY TOTAL		**6**	**1**	**19**	**7**	**1**	**32**	**284**	**35**	**10**	**2**	**20**	**1**	**1**	**3**	**1**	**1**	**1**	**1**	**1**	**1**	**2**	**32**	**52**	

SUMMARY OF TRAFFIC SIGNAL PAY ITEMS (CONT.)

SHEET NO.	SIGNALS SHEET NO.	ROADWAY	CENTERLINE	LOCATION	CONDUIT, 2 IN., TRENCH WITH TRACER WIRE	CONDUIT, 3 IN., TRENCH WITH TRACER WIRE	CONDUIT, 3 IN., PUSHED WITH TRACER WIRE	CONDUIT, 4 IN., PUSHED WITH TRACER WIRE	CABLE, 10 AWG 1 CONDUCTOR, POLE AND BRACKET	CABLE, 8 AWG 1 CONDUCTOR, POWER	CABLE, 12 AWG 2 CONDUCTOR	CABLE, 16 AWG 2 CONDUCTOR	CABLE, 16 AWG 5 CONDUCTOR	CABLE, 16 AWG 7 CONDUCTOR	CABLE, LOOP DETECTOR, IN DUCT	CABLE, LOOP DETECTOR, LEAD-IN	PULL BOX, PREFORMED CLASS 2	PULL BOX, PREFORMED CLASS 3	BASE, CONCRETE	TEMPORARY TRAFFIC SIGNALS	MISC. {WORK FOR ST. LOUIS COUNTY REQUIREMENTS - ROUTE 231 AT RIVER CITY CASINO BLVD}	MISC. {RECTANGULAR RAPID FLASHING BEACON ASSEMBLY - FRONT & REAR FACING (2 SIDED)}	MISC. {ATC TRAFFIC SIGNAL CONTROLLER}	MISC. {COMBINATION PAD MOUNTED 120V/240V POWER SUPPLY AND LIGHTING CONTROLLER WITH UPS}	MISC. {SL DISTRICT TRAFFIC SIGNAL DETECTION SYSTEM}	REMARKS
					(LF)	(LF)	(LF)	(LF)	(LF)	(LF)	(LF)	(LF)	(LF)	(LF)	(LF)	(LF)	(EA)	(EA)	(CY)	(LS)	(LS)	(EA)	(EA)	(EA)	(EA)	
291-296	2-7 OF 43	RTE. 231 / TELEGRAPH RD	RTE. 231	CL	12	161	257	-	190	70	420	1190	1190	1860	-	-	2	2	15	-	-	-	1	1	1	JEFFERSON BARRACKS RD.
297-302	8-13 OF 43	RTE. 231 / TELEGRAPH RD	RTE. 231	CL	-	124	320	115	50	-	600	2970	2980	3810	-	-	2	4	6.3	-	-	-	-	-	1	TELEGRAPH RD.
303-308	9-19 OF 43	RTE. 231 / S BROADWAY ST	RTE. 231	CL	-	135	62	-	50	-	110	890	900	260	-	-	1	-	5.4	-	-	-	-	-	1	RIPA AVE.
308-314	20-25 OF 43	RTE. 231 / S BROADWAY ST	RTE. 231	CL	12	176	258	-	190	70	490	1090	1090	1990	-	-	2	2	14.9	-	-	-	1	1	1	HOFFMEISTER
315 318	26 29 OF 43	RTE. 231 / S BROADWAY ST	RTE. 231	CL	-	-	-	-	-	-	-	-	-	-	1185	559	-	-	-	-	1	-	-	-	-	RIVER CITY CASINO BLVD
323	34 OF 43	RTE. 231 / TELEGRAPH RD	RTE. 231	CL	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3	-	-	-	MID-BLOCK CROSSING RRFB STA. 20+20
324	35 OF 43	RTE. 231 / KINGSTON DR	RTE. 231	CL	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3	-	-	-	MID-BLOCK CROSSING RRFB STA. 71+25
325	36 OF 43	RTE. 231 / KINGSTON DR	RTE. 231	CL	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3	-	-	-	MID-BLOCK CROSSING RRFB STA. 89+57
326	37 OF 43	RTE. 231 / S BROADWAY ST	RTE. 231	CL	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	-	-	-	MID-BLOCK CROSSING RRFB STA. 116+85
327	38 OF 43	RTE. 231 / S BROADWAY ST	RTE. 231	CL	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	-	-	-	MID-BLOCK CROSSING RRFB STA. 125+80
328	39 OF 43	RTE. 231 / BROADWAY ST	RTE. 231	CL	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	-	-	-	MID-BLOCK CROSSING RRFB STA. 130+85
			SUBTOTAL		24	596	897	115	480	140	1620	6140	6160	7920	1185	559	7	8	41.6	1	1	15	2	2	4	
			PAY TOTAL		**24**	**596**	**897**	**115**	**480**	**140**	**1,620**	**6,140**	**6,160**	**7,920**	**1,190**	**560**	**7**	**8**	**41.6**	**1**	**1**	**15**	**2**	**2**	**4**	

TRAFFIC SIGNAL MAINTENANCE & PROGRAMMING	
PAY TOTAL	**1 LUMP SUM**

NOTES:
1. PAY ITEM MISC. {RECTANGULAR RAPID FLASHING BEACON, 2 INDICATORS} SHALL CONSIST OF RRFB SYSTEM WITH 2 DUAL SIDED ASSEMBLIES.
2. PAY ITEM MISC. {RECTANGULAR RAPID FLASHING BEACON, 3 INDICATORS} SHALL CONSIST OF RRFB SYSTEM WITH 3 DUAL SIDED ASSEMBLIES.IN THIS ITEM ONE OF THE ASSEMBLIES IS PLACED ON THE MEDIAN AND ONE AT EACH CROSSWALK END.
3. SEE CONSTRUCTION DETAILS AND JSPs FOR ADDITIONAL DETAILS REGARDING RRFBs.

LAYOUT	NS	01/2025
DRAWN	SMC	01/2025
REVIEWED	DJK	01/2025

STATE OF MISSOURI
DENNIS J KOSCIELSKI
NUMBER PE-2005000712
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED: 7/25/2025

ROUTE	STATE
231	MO
DISTRICT	SHEET NO.
SL	3

COUNTY: ST. LOUIS
JOB NO.: J6S3631
CONTRACT ID.:
PROJECT NO.:
BRIDGE NO.:

IF A SEAL IS PRESENT ON THIS SHEET, IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

DESCRIPTION	DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

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St. Louis, Missouri 63101
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www.hanson-inc.com
314.770.0467

SUMMARY OF QUANTITIES
SHEET 104 OF 106

ITS FIBER OPTIC CABLE, CONDUIT, AND CCTV CAMERA CABLE

ITS SHEET NO	ROADWAY	FROM	TO	CENTER TO CENTER DISTANCE	FIBER OPTIC CABLE 24 STRAND SINGLE MODE LF	2-IN PUSH CONDUIT LF	REMARKS
1	RTE 231	EX ITS PB	ITS PB 1	881		879	SAPPINGTON BARRACKS
1	RTE 231	ITS PB 1	ITS PB 2	1336		1334	
1	RTE 231	ITS PB 2	ITS PB 3	74		72	
1 & 2	RTE 231	ITS PB 3	ITS PB 4	1243		1241	
2	RTE 231	ITS PB 4	SIG. CAB.	6		9	JEFFERSON BARRACKS RD
2	RTE 231	ITS PB 4	ITS PB 5	652		650	
2	RTE 231	ITS PB 5	SIG. CAB.	15		18	TELEGRAPH RD/ KINGSTON RD
2	RTE 231	ITS PB 5	ITS PB 6	1169		1167	
2 & 3	RTE 231	ITS PB 6	ITS PB 7	939		937	
3	RTE 231	ITS PB 7	ITS PB 8	1073		1071	
3 & 4	RTE 231	ITS PB 8	ITS PB 10	2058		2056	
4	RTE 231	ITS PB 10	ITS PB 11	90		88	
4	RTE 231	ITS PB 11	ITS PB 12	1016		1014	
4	RTE 231	ITS PB 12	SIG. CAB.	12		15	RIPA AVE
4	RTE 231	ITS PB 13	ITS PB 13	66		64	
4 & 5	RTE 231	ITS PB 13	ITS PB 14	1408		1406	
5	RTE 231	ITS PB 14	ITS PB 15	1169		1167	
5	RTE 231	ITS PB 15	ITS PB 16	65		63	
5 & 6	RTE 231	ITS PB 16	ITS PB 17	868		866	
6	RTE 231	ITS PB 17	SIG. CAB.	8		11	HOFFMEISTER AVE
2&3	RTE 232	MO231N003.1Z	MO231S002.4Z	3558	3721		SAPP. BARRACKS TO JEFF. BARRACKS
4	RTE 233	MO231S002.4Z	MO231S002.3Z	673	806		JEFF.BARRACKS TO TELG/KINGSTON
5 & 6	RTE 234	MO231S002.3Z	MO231N001.1Z	6372	6565		TELE/KINGSTON TO RIPA
7	RTE 235	MO231N001.1Z	MO231N000.5Z	3596	3759		RIPA TO HOFFMEISTER
			SUBTOTAL		14851	14128	
			PAY TOTAL		14851	14128	

MODOT BURIED CABLE DRIVABLE DELINEATOR POST	16	EACH

ITS ASSET MANAGEMENT TOOL	1	LUMP SUM

DISCLAIMER
THE PROFESSIONAL WHOSE SIGNATURE AND PERSONAL SEAL APPEAR HEREON ASSUMES RESPONSIBILITY ONLY FOR WHAT APPEARS ON THIS PAGE, AND DISCLAIMS (PURSUANT TO SECTION 327.411 RSMO) SPECIFICATION, ESTIMATES, REPORTS, OR OTHER DOCUMENTS OR INSTRUMENTS NOT SEALED BY THE UNDERSIGNED PROFESSIONAL RELATING TO OR INTENDED TO BE USED FOR ANY PART OR PARTS OF THE PROJECT TO WHICH THIS PAGE REFERS.

ITS PULLBOXES

ITS SHEET NO	ROADWAY		STA	LOC	ITS PULL BOX WITH CONCRETE PAD PREFORMED CLASS 2 EA	ITS PULL BOX WITH CONCRETE PAD PREFORMED CLASS 5 EA	REMARKS
2	RTE 231	ITS PB 1	13+91.91	42.4' RT	1		
2	RTE 231	ITS PB 2	27+28.53	35.3' RT	1		
2	RTE 231	ITS PB 3	27+50.11	35.4' LT	1		
3	RTE 231	ITS PB 4	39+81.25	58.2' LT		1	JEFFERSON BARRACKS RD
3	RTE 231	ITS PB 5	46+30.0	44.6' LT		1	TELEGRAPH RD/ KINGSTON RD
3	RTE 231	ITS PB 6	57+69.10	40.4' LT	1		
4	RTE 231	ITS PB 7	67+43.3	48.7' LT	1		
4	RTE 231	ITS PB 8	78+05.3	44.4' LT	1		
5	RTE 231	ITS PB 10	98+54.1	35.5' LT	1		
5	RTE 231	ITS PB 11	98+58.4	39.6' RT	1		
5	RTE 231	ITS PB 12	108+45.3	27.9' RT		1	RIPA AVE
5	RTE 231	ITS PB 13	108+76.7	25.9' LT	1		
6	RTE 231	ITS PB 14	122+83.0	27.9' LT	1		
6	RTE 231	ITS PB 15	134+49.2	29.1' LT	1		
6	RTE 231	ITS PB 16	135+31.0	25.7' RT	1		
7	RTE 231	ITS PB 17	143+31.0	25.7' RT		1	HOFFMEISTER AVE
			SUBTOTAL		12	4	
			PAY TOTAL		12	4	

NOTE:
ITS PULLBOX # 9 IS NOT USED.

ITS DEVICES AND FIBER OPTIC CONNECTIONS

ITS SHEET NO	ROADWAY	STA	CROSS STREET	CCTV CAMERA ASSEMBLY EA	INSTALL CCTV CAMERA ASSEMBLY EA	CCTV CAMERA CABLE LF	CCTV CAMERA ASSEMBLY REMOVAL & INSTALLATION EA	FIBER OPTIC FUSION SPLICE EA	FIBER OPTIC PIGTAIL EA	FIBER OPTIC JUMPERS EA	WALL WALL MOUNTED INTERCONNECT CENTER EA	CONTRACTOR F&I IP ADDRESSABLE POWER STRIP EA	CCTV EXTENSION POLE, 20' METALLIC FINISH EA	REMARKS
12	RTE 231	5+50	SAPPINGTON BARRACKS RD					24	2	2				
13	RTE 231	39+81	JEFFERSON BARRACKS RD					26	4	4	1	1		
14	RTE 231	46+30	TELEGRAPH RD	1	1	294		26	4	4	1		1	CTR TO CTR DIST. 226-FT
15	RTE 231	108+77	RIPA AVE	1	1	98		26	4	4	1		1	CTR TO CTR DIST. 54-FT
16	RTE 231	143+57	HOFFMEISTER AVE			97*	1	4	4	4	1	1	1	CTR TO CTR DIST. 53-FT
			SUBTOTAL	2	2	392	1	106	18	18	4	2	3	
			PAY TOTAL	2	2	392	1	106	18	18	4	2	3	

*FOR RELOCATED CCTV, THE CAMERA CABLE IS INCIDENTAL TO THE WORK AND INCLUDED IN THE BID PRICE OF THE RELOCATED CCTV.

ITS COMMUNICATION EQUIPMENT IN SIGNAL CABINETS

ITS SHEET NO	ROADWAY	STA	CROSS STREET	MODOT-FURNISHED SWITCH (EA)	MODOT-FURNISHED SFP MODULE (EA)	MODOT-FURNISHED CELLULAR MODEM (EA)	MODOT-FURNISHED VIDEO ENCODER (EA)	REMOVE & RELOCATE EXISTING SWITCH (EA)	REMOVE & RELOCATE EXISTING SFP MODULE (EA)	REMOVE & RELOCATE EXISTING CELLULAR MODEM (EA)	REMOVE & RELOCATE EXISTING VIDEO ENCODER (EA)	INSTALL OR RELOCATE EXISTING COMMUNICATION EQUIPMENT EA	REMARKS
12	RTE 231	5+50	SAPPINGTON BARRACKS RD		1							1	
13	RTE 231	39+81	JEFFERSON BARRACKS RD		2			1				1	
14	RTE 231	46+30	TELEGRAPH RD		2							1	
15	RTE 231	108+77	RIPA AVE		2							1	
16	RTE 231	143+57	HOFFMEISTER AVE		2			1				1	
										SUBTOTAL		5	
										PAY TOTAL		5	

SIGNAL CABINET BASE WRAP AND CABINET SHIFT

ITS SHEET NO	ROADWAY	STA	LOC	SIGNAL CABINET BASE WRAP AND CABINET SHIFT EA	REMARKS
3	RTE 231	46+40	45' LT	1	TELEGRAPH RD/ KINGSTON RD
5	RTE 231	108+70	27' RT	1	RIPA AVE
			SUBTOTAL	2	
			PAY TOTAL	2	

SUMMARY OF QUANTITIES
SHEET 105 OF 106

STATE OF MISSOURI
DENNIS J KOSCIELSKI
NUMBER PE-2005000712
PROFESSIONAL ENGINEER
6/16/2025 8:45:19 AM
Margaret Ann Bruns - Civil
MO PE-2010000798

DATE PREPARED 6/16/2025
ROUTE 231 | STATE MO
DISTRICT SL | SHEET NO. 3
COUNTY ST LOUIS
JOB NO. J6S3631
CONTRACT ID. .
PROJECT NO. .
BRIDGE NO. .

DESCRIPTION	DATE
.	.

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

EFK•Moen
Civil Engineering Design
13523 Barrett Parkway Dr
Suite 250
St Louis, MO 63021
Phone 314-394-3100
Fax 314-394-3199
Missouri Certificate of Authority: 001578

SIGN	SIZE IN.	AREA SQ.FT.	QTY EACH	TOTAL AREA SQ.FT.	QTY RELOC EACH	TOTAL RELOC SQ.FT.	SIGN NUM.	DESCRIPTION
WARNING SIGNS								
WO1-1L	48X48	16.00						TURN (SYMBOL LEFT)
WO1-1R	48X48	16.00						TURN (SYMBOL RIGHT)
WO1-2L	48X48	16.00						CURVE (SYMBOL LEFT)
WO1-2R	48X48	16.00						CURVE (SYMBOL RIGHT)
WO1-3L	48X48	16.00						REVERSE TURN (SYMBOL LEFT)
WO1-3R	48X48	16.00						REVERSE TURN (SYMBOL RIGHT)
WO1-4L	48X48	16.00						REVERSE CURVE (SYMBOL LEFT)
WO1-4R	48X48	16.00	1	16.00				REVERSE CURVE (SYMBOL RIGHT)
WO1-4bL	48X48	16.00						DOUBLE ARROW REVERSE CURVE (SYMBOL LEFT)
WO1-4bR	48X48	16.00						DOUBLE ARROW REVERSE CURVE (SYMBOL RIGHT)
WO1-4cL	48X48	16.00						TRIPLE ARROW REVERSE CURVE (SYMBOL LEFT)
WO1-4cR	48X48	16.00						TRIPLE ARROW REVERSE CURVE (SYMBOL RIGHT)
WO1-6	60X30	12.50						HORIZONTAL ARROW (SYMBOL)
WO1-6a	72X36	18.00						HORIZ. ARROW (SYMBOL ON PERMANENT BARRICADE)
WO1-7	60X30	12.50						DOUBLE HEAD HORIZONTAL ARROW (SYMBOL)
WO1-7a	72X36	18.00						DOUBLE HEAD HORIZ. ARROW (SYMBOL ON PERM. BARR.)
WO1-8	18X24	3.00						CHEVRON (SYMBOL)
WO1-8a	30X36	7.50						CHEVRON (SYMBOL FOR DIVIDED HIGHWAYS)
WO3-1	48X48	16.00						STOP AHEAD (SYMBOL)
WO3-2	48X48	16.00						YIELD AHEAD (SYMBOL)
WO3-3	48X48	16.00						SIGNAL AHEAD (SYMBOL)
WO3-4	48X48	16.00						BE PREPARED TO STOP
WO3-5	48X48	16.00	1	16.00	4	64.00		SPEED LIMIT AHEAD
WO4-1L	48X48	16.00						MERGE (SYMBOL FROM LEFT)
WO4-1R	48X48	16.00						MERGE (SYMBOL FROM RIGHT)
WO4-1aL	48X48	16.00	2	32.00	3	48.00		MERGE (LEFT)
WO4-1aR	48X48	16.00	4	64.00				MERGE (RIGHT)
WO5-1	48X48	16.00						ROAD/BRIDGE/RAMP NARROWS
WO5-3	48X48	16.00						ONE LANE BRIDGE
WO5-5	48X48	16.00						NARROW LANES
WO6-1	48X48	16.00						DIVIDED HIGHWAY (SYMBOL)
WO6-2	48X48	16.00						DIVIDED HIGHWAY END (SYMBOL)
WO6-3	48X48	16.00						TWO WAY TRAFFIC (SYMBOL)
WO7-3a	30X24	5.00						NEXT XX MILES (PLAQUE)
WO8-1	48X48	16.00						BUMP
WO8-2	48X48	16.00						DIP
WO8-3	48X48	16.00						PAVEMENT ENDS
WO8-4	48X48	16.00						SOFT SHOULDER
WO8-5	48X48	16.00						SLIPPERY WHEN WET (SYMBOL)
WO8-6	48X48	16.00						TRUCK CROSSING
WO8-6c	48X48	16.00						TRUCK ENTRANCE
WO8-7	36X36	9.00						LOOSE GRAVEL
WO8-7a	36X36	9.00						FRESH OIL / LOOSE GRAVEL
WO8-9	48X48	16.00						LOW SHOULDER
WO8-11	48X48	16.00						UNEVEN LANES
WO8-12	48X48	16.00						NO CENTER LINE
WO8-15	48X48	16.00						GROOVED PAVEMENT
WO8-15P	30X24	5.00						MOTORCYCLE (PLAQUE)
WO8-17L	48X48	16.00						SHOULDER DROP-OFF (SYMBOL LEFT)
WO8-17R	48X48	16.00						SHOULDER DROP-OFF (SYMBOL RIGHT)
WO8-17P	30X24	5.00						SHOULDER DROP-OFF (PLAQUE)
W10-1	42RND.	9.62						RAILROAD CROSSING
WO12-1	24X24	4.00						DOUBLE DOWN ARROW (SYMBOL)
WO12-2	48X48	16.00						LOW CLEARANCE (SYMBOL)
WO12-2x	24X18	3.00						LOW CLEARANCE (PLAQUE)
WO12-2a	84X24	14.00						OVERHEAD LOW CLEARANCE (FEET AND INCHES)
WO12-4	120X60	50.00						LOW CLEARANCE XX FT XX IN XX MILES AHEAD
WO12-5	120X60	50.00						WIDTH RESTRICTION XX FT XX IN XX MILES AHEAD
WO13-1	30X30	6.25						ADVISORY SPEED (PLAQUE)
WO16-2	30X24	5.00						XXX FEET (PLAQUE)
WO16-3	30X24	5.00						X MILE (PLAQUE)
WO20-1	48X48	16.00	56	896.00	163	2608.00		ROAD/BRIDGE/RAMP WORK AHEAD
WO20-2	48X48	16.00						DETOUR AHEAD
WO20-3	48X48	16.00						ROAD CLOSED AHEAD
WO20-4	48X48	16.00						ONE LANE ROAD AHEAD
WO20-5	48X48	16.00	2	32.00	7	112.00		RIGHT/CENTER/LEFT LANE CLOSED AHEAD
WO20-5a	48X48	16.00						2 RIGHT/CENTER/LEFT LANES CLOSED AHEAD
WO20-6a	48X48	16.00						RIGHT/CENTER/LEFT LANE CLOSED
WO20-7a	48X48	16.00						FLAGGER (SYMBOL)
WO21-2	36X36	9.00						FRESH OIL
WO21-5	48X48	16.00						SHOULDER WORK / SHOULDER WORK AHEAD
WO22-1	48X48	16.00						BLASTING ZONE AHEAD
WO22-2	42X36	10.50						TURN OFF 2-WAY RADIO AND PHONE
WO22-3	42X36	10.50						END BLASTING ZONE
GO22-1	21X15	2.19						WET PAINT (ARROW PIVOTS)

SIGN	SIZE IN.	AREA SQ.FT.	QTY EACH	TOTAL SQ.FT.	QTY RELOC EACH	TOTAL RELOC SQ.FT.	SIGN NUM.	DESCRIPTION
GUIDE SIGNS								
E05-1	36X48	12.00						GORE EXIT
E05-2	48X36	12.00						EXIT OPEN
E05-2a	48X36	12.00						EXIT CLOSED
GO20-1	60X24	10.00	2	20.00	7	70.00		ROAD WORK NEXT XX MILES
GO20-2	48X24	8.00	2	16.00	7	56.00		END ROAD WORK
GO20-4	36X18	4.50						PILOT CAR FOLLOW ME
GO20-4a	42X30	8.75						PILOT CAR IN USE WAIT & FOLLOW
GO20-4a	18X12	1.50						PILOT CAR IN USE WAIT & FOLLOW
GO20-5aP	36X24	6.00	51	306.00	119	714.00		WORK ZONE (PLAQUE)
MO4-8a	24X18	3.00						END DETOUR
MO4-9L	48X36	12.00						DETOUR (LEFT)
MO4-9R	48X36	12.00						DETOUR (RIGHT)
MO4-9P	48X12	4.00						STREET NAME (PLAQUE)
MO4-10L	48X18	6.00						DETOUR ARROW (LEFT)
MO4-10R	48X18	6.00						DETOUR ARROW (RIGHT)
REGULATORY SIGNS								
R1-1	48X48	13.25	30	397.50	21	278.25		STOP
R1-2	48TRI.	6.93						YIELD
R1-2a	36X36	9.00						TO ONCOMING TRAFFIC (PLAQUE)
R1-3P	30X12	2.50						ALL WAY (PLAQUE)
R2-1	36X48	12.00	26	312.00	67	804.00		SPEED LIMIT XX
R3-1	48X48	16.00						NO RIGHT TURN (SYMBOL)
R3-2	48X48	16.00						NO LEFT TURN (SYMBOL)
R3-3	36X36	9.00						NO TURNS
R3-4	48X48	16.00						NO U-TURN (SYMBOL)
R3-7L	30X30	6.25	3	18.75				LEFT LANE MUST TURN LEFT
R3-7R	30X30	6.25	2	12.50				RIGHT LANE MUST TURN RIGHT
R4-1	36X48	12.00	26	312.00	59	708.00		DO NOT PASS
R4-2	36X48	12.00	2	24.00	7	84.00		PASS WITH CARE
R4-7a	36X48	12.00						KEEP RIGHT (HORIZONTAL ARROW)
R4-8a	36X48	12.00						KEEP LEFT (HORIZONTAL ARROW)
R5-1	30X30	6.25						DO NOT ENTER
R5-1a	36X24	6.00						WRONG WAY
R6-1L	54X18	6.75						ONE WAY ARROW (LEFT)
R6-1R	54X18	6.75						ONE WAY ARROW (RIGHT)
R6-2L	24X30	5.00						ONE WAY (LEFT)
R6-2R	24X30	5.00						ONE WAY (RIGHT)
R9-9	24X12	2.00	109	218.00	169	338.00		SIDEWALK CLOSED
R9-11L	24X18	3.00						SIDEWALK CLOSED AHEAD, (ARROW LEFT) CROSS HERE
R9-11R	24X18	3.00						SIDEWALK CLOSED AHEAD, (ARROW RIGHT) CROSS HERE
R10-6	24X36	6.00						STOP HERE ON RED (45^ ARROW)
R11-2	48X30	10.00						ROAD CLOSED
R11-3a	60X30	12.50						ROAD CLOSED XX MILES AHEAD LOCAL TRAFFIC ONLY
R11-4	60X30	12.50						ROAD CLOSED TO THRU TRAFFIC
CONST-3A	60X48	20.00	2	40.00	7	140.00		FINE SIGN
CONST-3X	56X12	4.67						SPEEDING/PASSING (PLATE)
MISCELLANEOUS SIGNS								
CONST-5	48X36	12.00						POINT OF PRESENCE
CONST-5	96X48	32.00						POINT OF PRESENCE
CONST-8	48X36	12.00	2	24.00	7	84.00		WORK ZONE NO PHONE ZONE
CONST6-48	36X36	9.00						THE DIFFERERENCE IS YOU DRIVE SMART

616-10.05 CONSTRUCTION SIGNS	TOTAL	2756.75
616-10.10 RELOCATED SIGNS	TOTAL	6102.25

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ITEM NUMBER	TOTAL QTY	EFFECTIVE: 07-01-2024 DESCRIPTION
6122008		IMPACT ATTENUATOR 40 MPH (SAND BARRELS)
6122009		IMPACT ATTENUATOR 45 MPH (SAND BARRELS)
6122010		IMPACT ATTENUATOR 50 MPH (SAND BARRELS)
6122012		IMPACT ATTENUATOR 55 MPH (SAND BARRELS)
6122014		IMPACT ATTENUATOR 60 MPH (SAND BARRELS)
6122017		IMPACT ATTENUATOR 65 MPH (SAND BARRELS)
6122019		IMPACT ATTENUATOR 70 MPH (SAND BARRELS)
6122020		REPLACEMENT SAND BARREL
6122030		IMPACT ATTENUATOR (RELOCATION)
6123001	1 *	TRUCK MOUNTED ATTENUATOR (TMA)
6161008		ADVANCED WARNING RAIL SYSTEM
6161012		BUOYS (BOATS KEEP OUT)
6161013		BUOYS (NO WAKE)
6161014		SPECIAL SIGN ASSEMBLY (BOATS KEEP OUT)
6161025		CHANNELIZER (TRIM LINE)
6161030	262	TYPE III MOVEABLE BARRICADE
6161033		DIRECTION INDICATOR BARRICADE
6161040	4	FLASHING ARROW PANEL
6161047		TYPE III OBJECT MARKER
6161055		SEQUENTIAL FLASHING WARNING LIGHT
6161070		TUBULAR MARKER
6161095		RADAR SPEED ADVISORY SYSTEM
6161096		CHANGEABLE MESSAGE SIGN, COMMISSION FURNISHED/RETAINED
6161098A	6 *	CHANGEABLE MESSAGE SIGN WITHOUT COMM. INTERFACE- CONTRACTOR FURNISHED/RETAINED
6161099		CHANGEABLE MESSAGE SIGN WITH COMM. INTERFACE- CONTRACTOR FURNISHED/RETAINED
6162000A		WORK ZONE TRAFFIC SIGNAL SYSTEM
6162002		TEMPORARY LONG-TERM RUMBLE STRIPS
6173600D		TEMPORARY TRAFFIC BARRIER CONTRACTOR FURNISHED/RETAINED
6173602B		TEMPORARY TRAFFIC BARRIER CONTRACTOR FURNISHED/COMMISSION RETAINED
6174000A		TEMP. TRAFFIC BARRIER HEIGHT TRANSITION
6175010A		RELOCATING TEMPORARY TRAFFIC BARRIER
6176000B		TEMPORARY TRAFFIC BARRIER COMMISSION FURNISHED/RETAINED
6177000B		TEMP. TRAFFIC BARRIER HEIGHT TRANSITION COMMISSION FURNISHED/RETAINED
6208064A		TEMPORARY RAISED PAVEMENT MARKER
9029400		TEMPORARY TRAFFIC SIGNALS
9029401		TEMPORARY TRAFFIC SIGNALS AND LIGHTING
6161020		CHANNELIZER (DRUM LIKE)
6161025	3064	CHANNELIZER (TRIM-LINE)

MISC. {TEMPORARY TRAFFIC CONTROL}	
PAY TOTAL	1 LUMP SUM

* NOT INCLUDED IN MISC. LUMP SUM TEMPORARY TRAFFIC CONTROL ITEM.

NOTES:
1. ALL TEMPORARY TRAFFIC CONTROL ITEMS ARE INCLUDED IN PAY ITEM 616-99-01, MISC. LUMP SUM TEMPORARY TRAFFIC CONTROL UNLESS NOTED OTHERWISE IN THE PLANS. THE QUANTITIES SHOWN ARE AN ESTIMATE ONLY AND ARE SUBJECT TO CHANGE BASED ON FIELD CONDITIONS.

2. NO DIRECT PAYMENT WILL BE MADE FOR RELOCATING SIGNS OR DEVICES.

3. NO DIRECT PAYMENT WILL BE MADE FOR COVERING/UNCOVERING EXISTING SIGNS OR TEMPORARY TRAFFIC CONTROL SIGNS.

4. SIGN AND DEVICE LOCATIONS WILL BE FIELD VERIFIED AND APPROVED BY THE ENGINEER.

5. CMS LOCATIONS SHALL BE DETERMINED BY THE ENGINEER.

6. TMA LOCATIONS SHALL BE USED AS SHOWN ON SHEET "X" AND AT OTHER LOCATIONS SELECTED FOR USE BY THE CONTRACTOR AND APPROVED BY THE ENGINEER.

7. TEMPORARY TRAFFIC CONTROL SHALL FOLLOW MODOT/MUTCD STANDARDS.

SUMMARY OF QUANTITIES
SHEET 106 OF 106

LAYOUT	NS	01/2025
DRAWN	SMC	01/2025
REVIEWED	DJK	01/2025

STATE OF MISSOURI
DENNIS J KOSCIELSKI
NUMBER PE-2005000712
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED: 7/25/2025
ROUTE: 231 | STATE: MO
DISTRICT: SL | SHEET NO.: 3
COUNTY: ST. LOUIS
JOB NO.: J6S3631
CONTRACT ID.:
PROJECT NO.:
BRIDGE NO.:

DESCRIPTION | DATE

IF A SEAL IS PRESENT ON THIS SHEET, IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

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29H510872
2923 TELEGRAPH RD
N/F
HOPE VINEYARD CHURCH
DB 20275 PG 1656
NO ACQUISITION

HOPE VINEYARD CHURCH

EXIST. BUILDING (DND)

EXIST. PARKING (DND)

1
29H510630
2909 TELEGRAPH RD
N/F
EBB PROPERTIES, LLC
DB 22908 PG 542
(SEE R/W PLANS FOR TAKING AREAS & REMAINDER AREAS)

TELEGRAPH ROAD PHYSICAL THERAPY

EXIST. PARKING (DND)

FRANRU LN

2
29H510894
515 FRANRU LN
N/F
SYLVAN SPRINGS ASSOCIATES, LP
DB 23928 PG 3080
(SEE R/W PLANS FOR TAKING AREAS & REMAINDER AREAS)

SYLVAN SPRINGS SENIOR APARTMENTS

EXIST. BMP RESERVE AREA TO ST. LOUIS MSD (DND)

EXIST. PARKING (DND)

SCALE
0 20 40 60

EXIST. SW (UIP)
EXIST. R/W
EXIST. CONC CURB (UIP)
EXIST. BUSINESS SIGN (DND)
EXIST. RAMP (UIP)
EXIST. SW (R&R)
EXIST. CONC CURB (R&R)
EXIST. RAMP (R)
EXIST. SW (DND)
EXIST. RAMP (DND)
EXIST. RAMP (R&R)
EXIST. CONC CURB (R)
EXIST. SW (R)
EXIST. POST WITH SOLAR PANEL (DND)
EXIST. BUSINESS SIGN (DND)
EXIST. R/W (UIP)
EXIST. SW (UIP)
EXIST. SW (DND)
EXIST. RET. WALL (DND)
EXIST. STONE MONUMENT (DND)
EXIST. BRICKS (DND)
EXIST. STAIRS (DND)
EXIST. BUILDING (DND)
EXIST. SW (DND)
EXIST. SW (R&R)
EXIST. R/W
EXIST. BUILDING (DND)
EXIST. SW (DND)
EXIST. BUILDING (DND)

DWY 1 FULL DEPTH SAW CUT (R)
DWY 2 FULL DEPTH SAW CUT (R)
DWY 3A FULL DEPTH SAW CUT (R)
DWY 4

CONC CURB TYPE S (6")
CONC CURB TYPE S (9")
6' SW
6' XWALK
ADA RAMP
DETECTABLE WARNING FIELD
SHRUBS (DND) (23 TOTAL)
SHRUBS (R) (20 TOTAL)
SHRUB (DND)
TREE (DND)
TREE (DND) PERM. ESMT.
SHRUB (DND)
DETENTION BASIN (DND)
EXIST. ST. LOUIS STORM WATER ESMT.
PERM. ESMT.
EXIST. CHAIN LINK FENCE
DWY 3 LINK FENCE
EXIST. R/W
EXIST. RET. WALL (DND)
EXIST. BMP RESERVE AREA TO ST. LOUIS MSD (DND)
EXIST. PARKING (DND)
EXIST. RAMP (DND)
EXIST. RAMP (R)
EXIST. RAMP (R&R)
EXIST. SW (UIP)
EXIST. SW (R&R)
EXIST. SW (DND)
EXIST. SW (R)
EXIST. CONC CURB (UIP)
EXIST. CONC CURB (R&R)
EXIST. CONC CURB (R)
EXIST. BUSINESS SIGN (DND)
EXIST. BUSINESS SIGN (DND)
EXIST. BUILDING (DND)
EXIST. PARKING (DND)
EXIST. PARKING (DND)
EXIST. PARKING (DND)
EXIST. RAMP (DND)
EXIST. RAMP (DND)
EXIST. RAMP (R)
EXIST. RAMP (R&R)
EXIST. SW (DND)
EXIST. SW (R&R)
EXIST. SW (UIP)
EXIST. R/W
EXIST. R/W
EXIST. R/W

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SCALE
0 20 40 60

2
29H510894
515 FRANRU LN
N/F
SYLVAN SPRINGS ASSOCIATES, LP
DB 23928 PG 3080
(SEE R/W PLANS FOR TAKING AREAS & REMAINDER AREAS)

SYLVAN SPRINGS SENIOR APARTMENTS

3
29H510432
2843 TELEGRAPH RD
N/F
TAYLOR, CHARLES
DB 23754 PG 3621
(SEE R/W PLANS FOR TAKING AREAS & REMAINDER AREAS)

29H510773
2841 TELEGRAPH RD
N/F
RANDAZZO, VITO A.
DB 23466 PG 306
NO ACQUISITION

29H510542
2833 TELEGRAPH RD
N/F
THE LEMAY CHURCH OF GOD
DB UNKNOWN
NO ACQUISITION

CORNERSTONE COMMUNITY CHURCH OF GOD

RTE. 231 / TELEGRAPH RD

SYLVANWOOD TERRACE

SYLVIA DR

29H510696
2854 TELEGRAPH RD
N/F
PROSSER, CHARLES A. & CYNTHIA D., H/W
DB 23912 PG 1366
NO ACQUISITION

29H510751
2852 TELEGRAPH RD
N/F
NUNEZ, JOLMAN E. & PERDOMA, KELIN
DB 23442 PG 2472
NO ACQUISITION

29H510740
2850 TELEGRAPH RD
N/F
JACQUOT, DOUGLAS & GAIL L., H/W
DB 14683 PG 1447
NO ACQUISITION

4
29H510333
2844 TELEGRAPH RD
N/F
PACQUET, FRANCES A.
DB 15951 PG 1134
(SEE R/W PLANS FOR TAKING AREAS & REMAINDER AREAS)

5
29H510366
2842 TELEGRAPH RD
N/F
SOMMERS, MICHAEL A.
DB 11819 PG 829
(SEE R/W PLANS FOR TAKING AREAS & REMAINDER AREAS)

29H510410
2838 TELEGRAPH RD
N/F
GODFREY, MARIAN
DB 11699 PG 1816
NO ACQUISITION

6
29H510454
2834 TELEGRAPH RD
N/F
CARBO, MARK N.
DB 8205 PG 2164
(SEE R/W PLANS FOR TAKING AREAS & REMAINDER AREAS)

7
29H510704
2830 TELEGRAPH RD
N/F
CRAIG, RICHARD H.
DB 18323 PG 5102
(SEE R/W PLANS FOR TAKING AREAS & REMAINDER AREAS)

GENERAL NOTES:
1. SEE NOTES ON PLAN SHEET 1 OF 31.
2. ALL POWER POLES TO BE REMOVED AND RELOCATED BY OTHERS AS INDICATED (AMERENMO)
3. ALL EXISTING FIBER OPTIC IN THE CORRIDOR IS OWNED AND OPERATED BY OTHER ENTITIES.
4. INSTALL GATE AT LOCATION AS PER DIRECTION OF ENGINEER.
5. CONTRACTOR SHALL MAINTAIN A TEMPORARY FENCE AT ALL TIMES FOR PARCEL 7. LOCATION OF TEMPORARY FENCE SHALL BE PER DIRECTION OF THE ENGINEER, SEE JSPS.

LAYOUT	NS	01/2025
DRAWN	SMC	01/2025
REVIEWED	DJK	01/2025

PLAN SHEETS
SHEET 2 OF 31

STATE OF MISSOURI
DENNIS J KOSCIELSKI
NUMBER PE-2005000712
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED
7/16/2025

ROUTE	STATE
231	MO
DISTRICT	SHEET NO.
SL	5

COUNTY
ST. LOUIS

JOB NO.
J6S3631

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION	DATE

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

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STATE OF MISSOURI
DENNIS J KOSCIELSKI
NUMBER PE-2005000712
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED
7/16/2025

ROUTE	STATE
231	MO
DISTRICT	SHEET NO.
SL	6

COUNTY
ST. LOUIS

JOB NO.
J6S3631

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

DATE	DESCRIPTION

29H510542
2833 TELEGRAPH RD
N/F
THE LEMAY CHURCH OF GOD
DB UNKNOWN
NO ACQUISITION

CORNERSTONE COMMUNITY CHURCH OF GOD

29H510663
2825 TELEGRAPH RD
N/F
GREENLEE, SARAH
DB 23732 PG 4066
NO ACQUISITION

29H510652
2821 TELEGRAPH RD
N/F
FORREST W. MILLER JR., TRUSTEE
DB 23864 PG 4142
NO ACQUISITION

29H510731
2817 TELEGRAPH RD
N/F
FORREST W. MILLER JR., TRUSTEE
DB 12462 PG 2475
NO ACQUISITION

8
29H530045
2801 TELEGRAPH RD
N/F
FORREST W. MILLER JR., TRUSTEE
DB 12462 PG 2475
NO ACQUISITION

ROYALE ORLEANS

SCALE
0 20 40 60

MATCH LINE STA. 22+75.00

MATCH LINE STA. 28+00.00

RTE. 231 / TELEGRAPH RD

WILLETTE TERRACE

7
29H510704
2830 TELEGRAPH RD
N/F
CRAIG, RICHARD H.
DB 18323 PG 5102
(SEE R/W PLANS FOR TAKING AREAS & REMAINDER AREAS)

9
29H510502
2826 TELEGRAPH RD
N/F
KEKEDEKS, LLC
DB 22530 PG 502
(SEE R/W PLANS FOR TAKING AREAS & REMAINDER AREAS)

10
29H510511
2822 TELEGRAPH RD
N/F
MULLEN, JAMES & BARBARA, H/W
DB 17150 PG 3337
(SEE R/W PLANS FOR TAKING AREAS & REMAINDER AREAS)

11
29H520497
2820 TELEGRAPH RD
N/F
JAROSZEWSKI, MATTHEW T. & MATHES, ROBYN D.
DB 23142 PG 2518
(SEE R/W PLANS FOR TAKING AREAS & REMAINDER AREAS)

12
29H520552
2818 TELEGRAPH RD
N/F
HARLIN, VALERY & JEREMY, H/W
DEED DOCUMENT 202407030052O
(SEE R/W PLANS FOR TAKING AREAS & REMAINDER AREAS)

13
29H520604
2816 TELEGRAPH RD
N/F
BRYAN, CODY DALE
DB 23768 PG 3490
(SEE R/W PLANS FOR TAKING AREAS & REMAINDER AREAS)

29H520651
2814 TELEGRAPH RD
N/F
KEN RAPP, TRUSTEE
DB 25022 PG 971
NO ACQUISITION

14
29H520772
2808 TELEGRAPH RD
N/F
BLOES, BRADLEY M.
DB 25280 PG 1558
(SEE R/W PLANS FOR TAKING AREAS & REMAINDER AREAS)

15
29H520824
2804 TELEGRAPH RD
N/F
CHARLES T. WALDEN JR., TRUSTEE
DB 23861 PG 150
(SEE R/W PLANS FOR TAKING AREAS & REMAINDER AREAS)

29H550022
2800 TELEGRAPH RD
N/F
HURT, ARVIL T. JR. & JANE P., H/W
DB 19268 PG 979
NO ACQUISITION

GENERAL NOTES:
1. SEE NOTES ON PLAN SHEET 1 OF 31.
2. ALL POWER POLES TO BE REMOVED AND RELOCATED BY OTHERS AS INDICATED (AMERENMO)
3. ALL EXISTING FIBER OPTIC IN THE CORRIDOR IS OWNED AND OPERATED BY OTHER ENTITIES.
4. CONTRACTOR SHALL MAINTAIN A TEMPORARY FENCE AT ALL TIMES FOR PARCEL 7. LOCATION OF TEMPORARY FENCE SHALL BE PER DIRECTION OF THE ENGINEER. SEE JSPS.

LAYOUT	NS	01/2025
DRAWN	SMC	01/2025
REVIEWED	DJK	01/2025

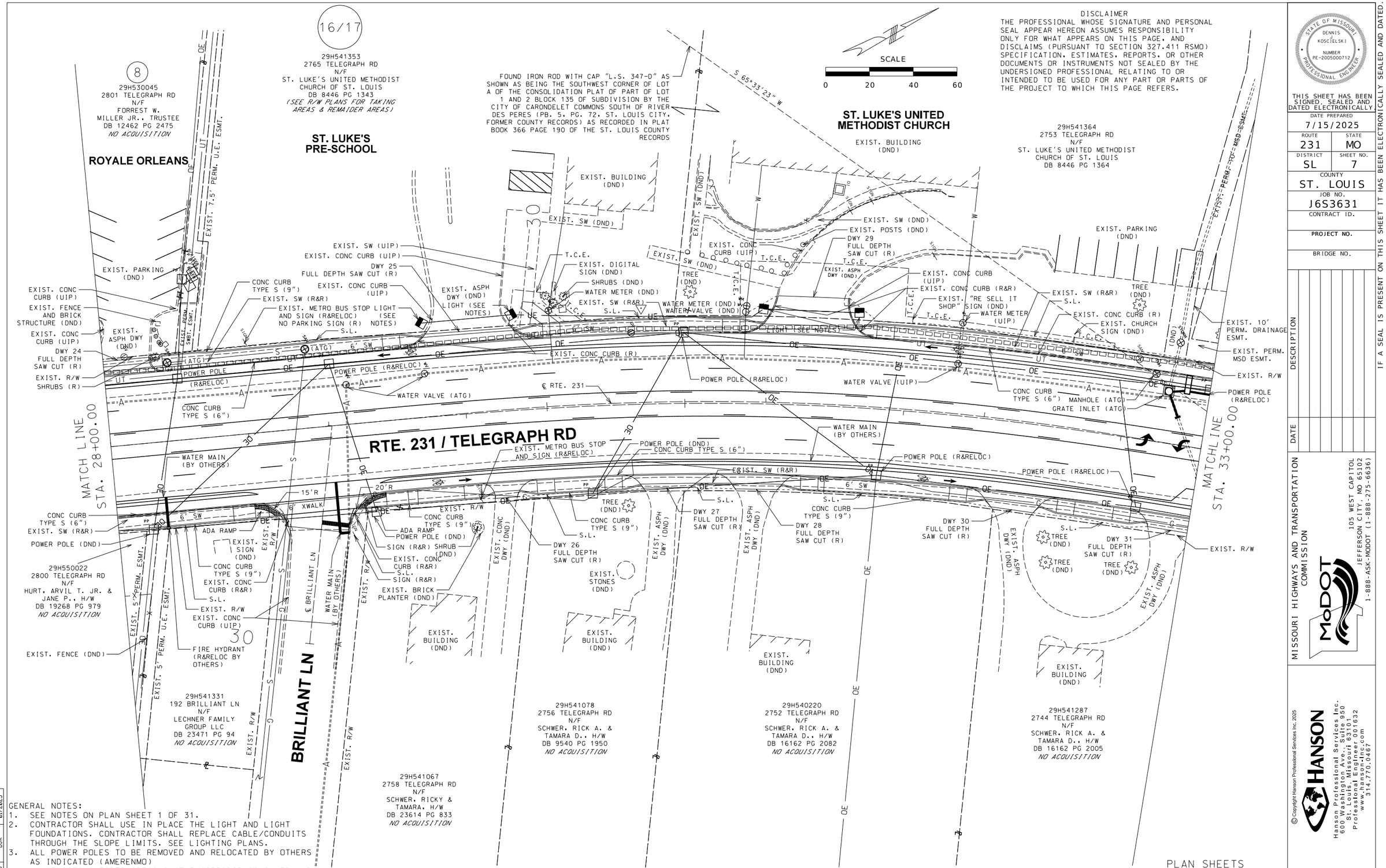
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PLAN SHEETS
SHEET 3 OF 31

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I:\22jobs\22H0100\CAD\Road\Sheet\007_PS_04_J6S3631_I20.dgn

16/17

29H541364
2753 TELEGRAPH RD
N/F
ST. LUKE'S UNITED METHODIST CHURCH
DB 8446 PG 1364
(SEE R/W PLANS FOR TAKING AREAS & REMAINDER AREAS)

ST. LUKE'S UNITED METHODIST CHURCH

SCALE
0 20 40 60

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29H540660
2731 TELEGRAPH RD
N/F
MESIC, HRUSTAN & MINA
DB 20512 PG 2515
NO ACQUISITION

29H540707
2727 TELEGRAPH RD
N/F
ALONZO, STEVEN & PAMELA
DB 24052 PG 2057
NO ACQUISITION

29H541265
2715 TELEGRAPH RD
N/F
SUNSET PROPERTY LLC
DB 23646 PG 2111
NO ACQUISITION

A&E CAR WASH

MESIC TILE & STONE

SHIELD TRANSPORTATION

DEWITT INSURANCE

VALVOLINE INSTANT OIL CHANGE

29H541254
2711 TELEGRAPH RD
N/F
VALVOLINE LLC
DB 22160 PG 388
NO ACQUISITION

PHILLIPS 66

29H541243
2701 TELEGRAPH RD
N/F
WESTERN OIL INC.
DOC # 2022062900028
NO ACQUISITION

EXIST. PERM. 10' MSD ESMT.
EXIST. 10' PERM. MSD ESMT.
EXIST. 5' PERM. MSD ESMT.
EXIST. PERM. UTILITY AND CROSS ACCESS ESMT.
EXIST. PERM. MSD ESMT.
EXIST. 20' X 20' PERM. SWBT. ESMT.
EXIST. 10' PERM. ESMT.

EXIST. PARKING (DND)
TREES (DND)
TREE (DND)
EXIST. BUILDING (DND)
DWY 35 FULL DEPTH SAW CUT (R)
DWY 36 FULL DEPTH SAW CUT (R)
DWY 37 FULL DEPTH SAW CUT (R)
DWY 39 FULL DEPTH SAW CUT (R)
DWY 41 FULL DEPTH SAW CUT (R)
RET. WALL (DND)
EXIST. CONC CURB (UIP)
EXIST. LARGE RECTANGULAR SIGN (DND)
EXIST. BUSINESS SIGN (DND)
EXIST. SIGN (R)
EXIST. SIGN (UIP)
EXIST. ASPH DWY (DND)
EXIST. R/W
EXIST. SW (R&R)
EXIST. CONC CURB (R&R)
EXIST. SHRUBS (DND)
WATER VALVE (DND)
WATER VALVE (ATG)
GRATE INLET (R&R TOP)
POWER POLE (DND)
POWER POLE (R&RELOC)
CONC CURB TYPE S (6")
SIGN (R&R)
FIRE HYDRANT (R&RELOC)
S.L.
OE
UT
SW
6" SW

MATCHLINE STA. 33+00.00

GRATE INLET (UIP)
LIGHT POLE (R&RELOC)
GAS VALVE (DND)
WATER MAIN (BY OTHERS)
SIGNS (R&R)
T.C.E.
WATER METER (DND)
EXIST. GUARDRAIL (UIP)
DWY 32 FULL DEPTH SAW CUT (R)
DWY 33 FULL DEPTH SAW CUT (R)
DWY 34 FULL DEPTH SAW CUT (R)
DWY 38 FULL DEPTH SAW CUT (R)
CONC CURB TYPE S (9")
LIGHT POLE (DND)
DWY 40 FULL DEPTH SAW CUT (R)
DWY 31 FULL DEPTH SAW CUT (R)
TREE (DND)
CONC CURB TYPE S (9")
EXIST. R/W
SHRUBS (DND)
EXIST. SW (DND)
EXIST. PARKING (DND)
EXIST. BUILDING (DND)
EXIST. ASPH DWY (DND)
EXIST. BUSINESS SIGN (DND)
EXIST. CONC CURB (R&R)
EXIST. CONC CURB (UIP)
EXIST. SW (R&R)
FIRE HYDRANT (R&R)
SHRUBS (DND)
SIGN (DND)
LIGHT POLE (DND)

MATCHLINE STA. 38+00.00

RTE. 231 / TELEGRAPH RD

℄ RTE. 231

18
29H540352
2738 TELEGRAPH RD
N/F
ROGG, NATALIE
& ROGG, JOSEPH
DB 21852 PG 307
(SEE R/W PLANS FOR TAKING AREAS & REMAINDER AREAS)

29H541287
2744 TELEGRAPH RD
N/F
SCHWER, RICK A. &
TAMARA D., H/W
DB 16162 PG 2005
NO ACQUISITION

29H540462
2736 TELEGRAPH RD
N/F
PAQUET, NORMAN B. JR.
DB 16788 PG 919
NO ACQUISITION

29H540431
2732 TELEGRAPH RD
N/F
PAQUET, NORMAN B. JR.
DB 17943 PG 1021
NO ACQUISITION

29H540514
2728 TELEGRAPH RD
N/F
MUSIELAK, DAMIAN M.
& ELIZABETH T., H/W
DB 12315 PG 1114
NO ACQUISITION

19
29H541155
2716 TELEGRAPH RD
N/F
RESALAT COMMUNITY CENTER
DOC # 2022041100364
(SEE R/W PLANS FOR TAKING AREAS & REMAINDER AREAS)

20
29H541302
2700 TELEGRAPH RD
N/F
EXCHANGERIGHT NET
LEASED PORTFOLIO 29 DST
DB 23672 PG 143
(SEE R/W PLANS FOR TAKING AREAS & REMAINDER AREAS)

CARDINAL ACCOUNTING & TAX

RAPID MEDLAB

WALGREENS

GENERAL NOTES:
1. SEE NOTES ON PLAN SHEET 1 OF 31.
2. ALL POWER POLES TO BE REMOVED AND RELOCATED BY OTHERS AS INDICATED (AMERENMO)
3. ALL EXISTING FIBER OPTIC IN THE CORRIDOR IS OWNED AND OPERATED BY OTHER ENTITIES.

LAYOUT	NS	01/2025
DRAWN	SMC	01/2025
REVIEWED	DJK	01/2025

PLAN SHEETS
SHEET 5 OF 31

STATE OF MISSOURI
DENNIS J KOSCIELSKI
NUMBER PE-2005000712
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED
7/15/2025

ROUTE	STATE
231	MO
DISTRICT	SHEET NO.
SL	8

COUNTY
ST. LOUIS

JOB NO.
J6S3631

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION	DATE

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
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STATE OF MISSOURI
DENNIS J KOSCIELSKI
NUMBER PE-2005000712
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED
7/15/2025

ROUTE	STATE
231	MO
DISTRICT	SHEET NO.
SL	9

COUNTY
ST. LOUIS

JOB NO.
J6S3631

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

DESCRIPTION	DATE

SCALE
0 20 40 60

RTE. 231 / TELEGRAPH RD

MATCHLINE STA. 38+00.00

MATCHLINE STA. 43+25.00

JEFFERSONIAN DR

JEFFERSON BARRACKS RD

29H541243
2701 TELEGRAPH RD
N/F
WESTERN OIL INC.
DOC # 2022062900028
NO ACQUISITION
PHILLIPS 66

21
29H541111
2675 TELEGRAPH RD
N/F
NNN REIT, LP
DOC # 2023060200097
(SEE R/W PLANS FOR TAKING AREAS & REMAINDER AREAS)

28H221643
2651 TELEGRAPH RD
N/F
NNN REIT LP
DOC # 2023060200097
NO ACQUISITION

20
29H541302
2700 TELEGRAPH RD
N/F
EXCHANGERIGHT NET LEASED PORTFOLIO 29 DST
DB 23672 PG 143
(SEE R/W PLANS FOR TAKING AREAS & REMAINDER AREAS)
WALGREENS

22
29H541298
2666 TELEGRAPH RD
N/F
SHANE INVESTMENT GROUP, LLC
DB 25316 PG 307
(SEE R/W PLANS FOR TAKING AREAS & REMAINDER AREAS)
JACK IN THE BOX

28H221744
2650 TELEGRAPH RD
N/F
2650 TELEGRAPH BLDG. LLC
DB 21852 PG 307
NO ACQUISITION
CAFE TELEGRAPH SMOKE SHOP

GENERAL NOTES:
1. SEE NOTES ON PLAN SHEET 1 OF 31.
2. ALL POWER POLES TO BE REMOVED AND RELOCATED BY OTHERS AS INDICATED (AMERENMO)
3. ALL EXISTING FIBER OPTIC IN THE CORRIDOR IS OWNED AND OPERATED BY OTHER ENTITIES.

LAYOUT	NS	01/2025
DRAWN	SMC	01/2025
REVIEWED	DJK	01/2025

PLAN SHEETS
SHEET 6 OF 31

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SCALE
0 20 40 60

GVL PLUMBING

CHARLES H. FIKE, LLC TAX & ACCOUNTING SERVICES

28H221652
2641 TELEGRAPH RD
N/F
GVL PROPERTIES LLC
DB 24350 PG 4369
NO ACQUISITION

28H221616
2635 TELEGRAPH RD
N/F
S & P LAND TRUST
DB 21540 PG 2117
NO ACQUISITION

28H220273
2631 TELEGRAPH RD
N/F
BRADY, DEANNA D.
DB 20605 PG 294
NO ACQUISITION

28H221625
2625 TELEGRAPH RD
N/F
RVB & ASSOCIATES LLC
DB 10662 PG 2490
NO ACQUISITION

28H221634
2619 TELEGRAPH RD
N/F
RVB & ASSOCIATES LLC
DB 12419 PG 212
NO ACQUISITION

28H221692
2611 TELEGRAPH RD
N/F
AMER LLC
DB 18690 PG 2417
NO ACQUISITION

28H221643
2651 TELEGRAPH RD
N/F
NNN REIT LP
DOC # 2023060200097
NO ACQUISITION

FRATERNAL ORDER OF EAGLES

LOYALTY CONSTRUCTION RESTORATION LLC

INDOOR COMFORT TEAM

TELEGRAPH RD

RTE. 231 / TELEGRAPH RD

BETTY JEAN LN

LAREDO AVE

MATCHLINE STA. 43+25.00

MATCHLINE STA. 48+35.00

28H221744
2650 TELEGRAPH RD
N/F
2650 TELEGRAPH BLDG. LLC
DB 21852 PG 307
NO ACQUISITION

CAFE TELEGRAPH SMOKE SHOP

28H220122
2612 TELEGRAPH RD
N/F
EXCELDA DEVELOPMENT COMPANY
DB 5488 PG 13
NO ACQUISITION

CASH AMERICA PAWN

MIMI NAIL PRO

23
28H310297
2608 TELEGRAPH RD
N/F
EXCELDA DEVELOPMENT COMPANY
DB 5488 PG 13
(SEE R/W PLANS FOR TAKING AREAS & REMAINDER AREAS)

SUNCE EUROPA BAKERY & GROCERY

SHEETS LAUNDROMAT

28H310341
2598 TELEGRAPH RD
N/F
SASSCO LLC
DB 18740 PG 564
NO ACQUISITION

THE CROW BAR & DELI

24
28H311881
149 LAREDO AVE
N/F
LAREDO PROPERTIES, LLC
DB 17466 PG 2461
(SEE R/W PLANS FOR TAKING AREAS & REMAINDER AREAS)

GENERAL NOTES:
1. SEE NOTES ON PLAN SHEET 1 OF 31.
2. ALL EXISTING FIBER OPTIC IN THE CORRIDOR IS OWNED AND OPERATED BY OTHER ENTITIES.

PLAN SHEETS
SHEET 7 OF 31

LAYOUT	NS	01/2025
DRAWN	SMC	01/2025
REVIEWED	DJK	01/2025

STATE OF MISSOURI
DENNIS J KOSCIELSKI
NUMBER PE-2005000712
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED
7/15/2025

ROUTE	STATE
231	MO
DISTRICT	SHEET NO.
SL	10

COUNTY
ST. LOUIS

JOB NO.
J6S3631

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION	DATE

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MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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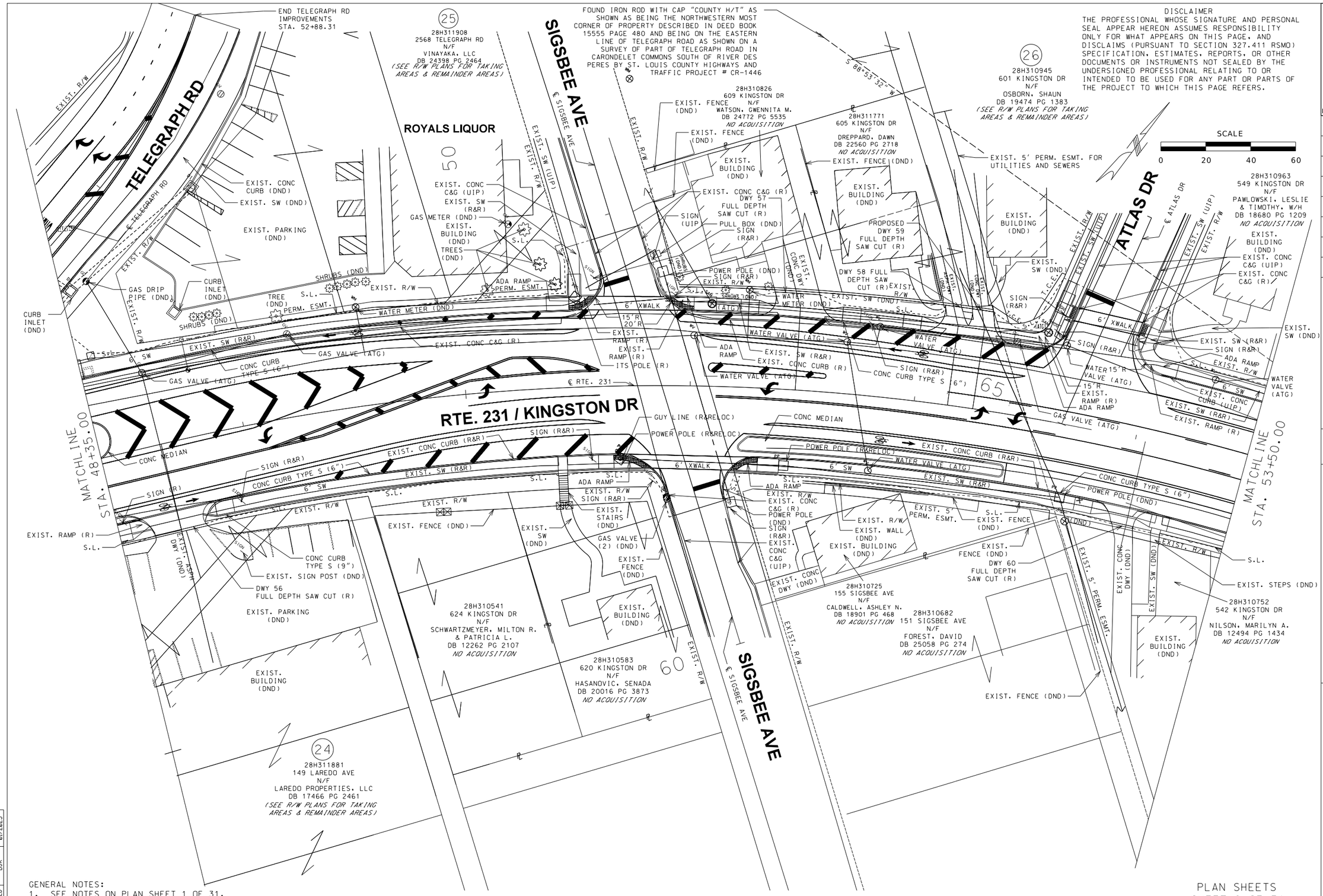
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GENERAL NOTES:
1. SEE NOTES ON PLAN SHEET 1 OF 31.
2. ALL EXISTING FIBER OPTIC IN THE CORRIDOR IS OWNED AND OPERATED BY OTHER ENTITIES.

PLAN SHEETS
SHEET 8 OF 31

LAYOUT	NS	01/2025
DRAWN	SMC	01/2025
REVIEWED	DJK	01/2025

STATE OF MISSOURI
DENNIS J. KOSCIELSKI
NUMBER PE-2005000712
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED
7/15/2025

ROUTE	STATE
231	MO
DISTRICT	SHEET NO.
SL	11

COUNTY
ST. LOUIS

JOB NO.
J6S3631

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

DESCRIPTION	DATE

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SCALE
0 20 40 60

RTE. 231 / KINGSTON DR

GENEVA DR

SHETLAND DR

28H311001 545 KINGSTON DR N/F CELESLIE PROPERTIES LLC DOC # 2022061300354 NO ACQUISITION

28H311045 541 KINGSTON DR N/F TIMOTHY A. WOODBURN JR., TRUSTEE DB 24339 PG 468 NO ACQUISITION

28H311056 537 KINGSTON DR N/F WICK, LORETTA DB 23316 PG 2125 NO ACQUISITION

28H311067 533 KINGSTON DR N/F MIDDLETON, JEFF & ELLA, H/W DB 10731 PG 2268 NO ACQUISITION

28H311089 529 KINGSTON DR N/F NOSER, TRACY L. & MYRICK, ERIC DB 18012 PG 1298 NO ACQUISITION

28H311090 523 KINGSTON DR N/F MOCUMBI, JADEN DOC # 2023010400375 NO ACQUISITION

28H311111 519 KINGSTON DR N/F MOONEY, DEBRA A. DB 10783 PG 1732 NO ACQUISITION

28H311122 515 KINGSTON DR N/F 515 KINGSTON LLC DB 23532 PG 4152 NO ACQUISITION

28H311166 509 KINGSTON DR N/F YOUNG, CHRISTINE J. DB 15085 PG 3007 NO ACQUISITION

28H311177 505 KINGSTON DR N/F NORRIS, WILLIAM L. DB 15210 PG 178 NO ACQUISITION

28H311694 501 KINGSTON DR N/F MORGADO, MARIA D. DB 21896 PG 2927 NO ACQUISITION

28H311199 465 KINGSTON DR N/F BERTCHUME, STEVE J. & ROSE M., H/W DB 14397 PG 1247 NO ACQUISITION

28H311852 540 KINGSTON DR N/F VOGT, CHRISTINE A. DB 17671 PG 112 NO ACQUISITION

28H310752 542 KINGSTON DR N/F NILSON, MARILYN A. DB 12494 PG 1434 NO ACQUISITION

28H310792 532 KINGSTON DR N/F CARRASQUEDO-DE LA CRUZ-MANJARREZ, JOSE L. & CASTILLO-GARCIA, BITIA, H/W DB 25336 PG 4089 NO ACQUISITION

28H310808 528 KINGSTON DR N/F CHIANTA, GAETANO DB 22690 PG 178 (SEE R/W PLANS FOR TAKING AREAS & REMAINDER AREAS)

28H310817 524 KINGSTON DR N/F QUINN, MARY H. & CLARK, DOUGLAS M. DB 17826 PG 10 NO ACQUISITION

28H310835 506 KINGSTON DR N/F MOLNER, REBECCA E. DOC # 2023011100342 NO ACQUISITION

28H310853 504 KINGSTON DR N/F LUKING, LISA A. & MICHAEL R., W/H DB 21800 PG 1738 NO ACQUISITION

28H310862 500 KINGSTON DR N/F MITCHELL, HOLLY DB 23044 PG 1788 NO ACQUISITION

28H310880 472 KINGSTON DR N/F HINKELMAN, DANIEL I. & ERIN M., H/W DB 19230 PG 1483 NO ACQUISITION

28H310871 468 KINGSTON DR N/F TURNER, THOMAS E. & KATHLEEN M. DB 8086 PG 620 NO ACQUISITION

MATCHLINE STA. 53+50.00

MATCHLINE STA. 58+50.00

GENERAL NOTES:
1. SEE NOTES ON PLAN SHEET 1 OF 31.
2. SEE PAVEMENT MARKING LEGEND ON PLAN SHEET 1 OF 31.
3. ALL EXISTING FIBER OPTIC IN THE CORRIDOR IS OWNED AND OPERATED BY OTHER ENTITIES.
4. SHRUB TO BE DO NOT DISTURB EXCEPT TO TRIM WHERE COVERING SIDEWALK PER DIRECTION OF ENGINEER.

LAYOUT	NS	01/2025
DRAWN	SMC	01/2025
REVIEWED	DJK	01/2025

PLAN SHEETS
SHEET 9 OF 31

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STATE OF MISSOURI
DENNIS J KOSCIELSKI
NUMBER PE-2005000712
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED 7/15/2025

ROUTE	STATE
231	MO
DISTRICT	SHEET NO.
SL	12

COUNTY ST. LOUIS
JOB NO. J6S3631
CONTRACT ID.
PROJECT NO.
BRIDGE NO.

DATE	DESCRIPTION

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

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SCALE
0 20 40 60

RTE. 231 / KINGSTON DR

TERREL DR

GENERAL NOTES:
1. SEE NOTES ON PLAN SHEET 1 OF 31.
2. ALL EXISTING FIBER OPTIC IN THE CORRIDOR IS OWNED AND OPERATED BY OTHER ENTITIES.

PLAN SHEETS
SHEET 10 OF 31

LAYOUT	NS	01/2025
DRAWN	SMC	01/2025
REVIEWED	DJK	01/2025

STATE OF MISSOURI
DENNIS J KOSCIELSKI
NUMBER PE-2005000712
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED
7/15/2025

ROUTE	STATE
231	MO
DISTRICT	SHEET NO.
SL	13

COUNTY
ST. LOUIS

JOB NO.
J6S3631

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION	DATE

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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SCALE
0 20 40 60

RTE. 231 / KINGSTON DR

TACOMA DR

SOUTHWARK LN

MATCHLINE STA. 63+50.00

MATCHLINE STA. 68+75.00

28H320175
411 KINGSTON DR
N/F
SUBASIC, ENVER & SEDINA, H/W
DB 16829 PG 343
NO ACQUISITION

28H320197
405 KINGSTON DR
N/F
BERGEON, ERIN
DB 22288 PG 40
NO ACQUISITION

28H320203
401 KINGSTON DR
N/F
WOLF, JOSEPH M. & JAYNE F., H/W
DB 22642 PG 1222
NO ACQUISITION

28H340012
389 KINGSTON DR
N/F
GUZMAN, MICHAEL LEE & DESTRI, H/W
DB 24314 PG 54
(SEE R/W PLANS FOR TAKING AREAS & REMAINDER AREAS)

28H341222
385 KINGSTON DR
N/F
OP HOLDINGS LLC
DB 23382 PG 373
NO ACQUISITION

28H340104
200 SOUTHWARK LN
N/F
TURNER, THOMAS R.
DB 25268 PG 1501
NO ACQUISITION

28H340151
201 SOUTHWARK LN
N/F
SARDO, JOSEPH
DB 24222 PG 2550
NO ACQUISITION

28H320102
408 KINGSTON DR
N/F
KOESTER, JASON C.
DB 16966 PG 1813
NO ACQUISITION

28H320111
404 KINGSTON DR
N/F
MUJANIC, NAIM & NISFETA
DB 14854 PG 891
NO ACQUISITION

28H320120
400 KINGSTON DR
N/F
GLEIFORST, EMIL D. III & DEBORAH M., H/W
DB 12695 PG 1519
NO ACQUISITION

28H320142
396 KINGSTON DR
N/F
DURPHY, RORY
DB 22144 PG 2482
NO ACQUISITION

28H320164
392 KINGSTON DR
N/F
HAJEK, MICHELE A.
DB 11391 PG 1934
NO ACQUISITION

28H320186
386 KINGSTON DR
N/F
DUNN, ANDREW & LILY
DB 24952 PG 3459
NO ACQUISITION

28H320212
384 KINGSTON DR
N/F
MCDONALD, TAMMY L.
DB 15648 PG 1522
(SEE R/W PLANS FOR TAKING AREAS & REMAINDER AREAS)

28H341341
352 KINGSTON DR
N/F
LEAD M KINGSTON PROPERTIES LLC
DB 24091 PG 266
NO ACQUISITION

KINGSTON APARTMENTS

EXIST. 5' PERM. ESMT. FOR UTILITIES AND SEWERS
EXIST. 10' PERM. ESMT. FOR SEWERS
EXIST. 10' PERM. ESMT. FOR UTILITIES AND SEWERS
EXIST. 5' PERM. ESMT. FOR UTILITIES AND SEWERS
EXIST. 5' PERM. ESMT.
EXIST. 20' PERM. DRAINAGE ESMT.
EXIST. 15' PERM. SEWER ESMT.
PERM. DRAINAGE ESMT.
EXIST. R/W
EXIST. BUILDING (DND)
EXIST. CONC C&G (UIP)
EXIST. CONC C&G (R)
EXIST. CONC DWY (DND)
DWY 90 FULL DEPTH SAW CUT (R)
DWY 91
DWY 92 FULL DEPTH SAW CUT (R)
DWY 93 FULL DEPTH SAW CUT (R)
EXIST. ASPH DWY (DND)
EXIST. SW (DND)
EXIST. SW (UIP)
EXIST. SW (R&R)
EXIST. STEPS BUILDING (DND)
EXIST. STEPS (DND)
CONC CURB TYPE S (9")
CONC CURB TYPE S (6")
EXIST. CONC CURB (UIP)
EXIST. CONC CURB (R&R)
EXIST. CURB (R) AS DIRECTED BY ENGINEER IN EXIST. R/W
EXIST. RAMP (R)
EXIST. RAMP W/R)
ADA RAMP
SIGN (R&R)
SIGN (R BY MODOT PRIOR TO JOB)
BUSINESS SIGN (DND)
EXIST. STAIRS (DND)
EXIST. FENCE (DND)
EXIST. GRAVEL (UIP)
EXIST. PARKING (DND)
EXIST. METRO BUS STOP AND SIGN (R&RELOC)
EXIST. RET WALL (DND)
EXIST. DENSE FOLIAGE (R&R)
EXIST. CULVERT (UIP)
FLUSH TYPE S CURB
STRUCTURAL CONC SW
SOD DITCH
GRAVEL (R&R) WITHIN S.L., INCIDENTAL TO PROJECT (NO DIRECT PAY)
FURNISHING AND PLACING TYPE 4 ROCK DITCH LINER ON PERMANENT EROSION CONTROL GEOTEXTILE
FURNISHING AND PLACING TYPE 2 ROCK DITCH LINER ON PERMANENT EROSION CONTROL GEOTEXTILE
6' XWALK
6' SW
20'R
S.L.
GAS VALVE (ATG)
GRATE INLET (R)
CURB INLET (R)
WATER VALVE (UIP)
WATER VALVE (DND)
ITS POLE (R)
SHRUBS (DND)
TREE AND BUSHES (R)
HYDRANT (DND)
LIGHT POLE (DND)
POWER POLE (DND)
EXIST. FENCE (DND)

GENERAL NOTES:
1. SEE NOTES ON PLAN SHEET 1 OF 31.
2. ALL POWER POLES TO BE REMOVED AND RELOCATED BY OTHERS AS INDICATED (AMERENMO)
3. EXISTING DENSE FOLIAGE TO BE REMOVED AND REPLACED WITH NEW MATERIAL TO BE APPROVED BY ENGINEER. MATERIAL USED SHALL BE APPROVED BY ENGINEER USING THE SUBMITTAL PROCESS, SEE JOB SPECIAL PROVISIONS.
4. ALL EXISTING FIBER OPTIC IN THE CORRIDOR IS OWNED AND OPERATED BY OTHER ENTITIES.

PLAN SHEETS
SHEET 11 OF 31

LAYOUT	NS	01/2025
DRAWN	SMC	01/2025
REVIEWED	DJK	01/2025

STATE OF MISSOURI
DENNIS J. KOSCIELSKI
NUMBER PE-2005000712
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED
7/15/2025

ROUTE	STATE
231	MO
DISTRICT	SHEET NO.
SL	14

COUNTY
ST. LOUIS

JOB NO.
J6S3631

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION

DATE

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

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SCALE
0 20 40 60

EARLSFIELD LN

SOUTHAMPTON DR

28H340195
200 EARLSFIELD LN
N/F
WILL, LEONARD P., LONG, CHARLES P. JR., & SHOCKLEY, CATHERINE A.
DB 8054 PG 1652
NO ACQUISITION

28H340294
201 EARLSFIELD LN
N/F
HEMKENS, EDWARD J. & RICHELLE D.
DOC # 202207010043
NO ACQUISITION

28H340371
200 SOUTHAMPTON DR
N/F
SNYDER, CRAIG C. & DEBORAH A., H/W
DB 15135 PG 1661
NO ACQUISITION

28H340151
201 SOUTHWARK LN
N/F
SARDO, JOSEPH
DB 24222 PG 2550
NO ACQUISITION

28H340917
201 SOUTHAMPTON DR
N/F
PEREZ, JORGE & GLORIA I., H/W
DOC # 202207300268
NO ACQUISITION

28H341341
352 KINGSTON DR
N/F
LEAD M KINGSTON PROPERTIES LLC
DB 24091 PG 266
NO ACQUISITION

28H340223
344 KINGSTON DR
N/F
GLICK, JEROME E.
DB 6793 PG 1961
(SEE R/W PLANS FOR TAKING AREAS & REMAINDER AREAS)

28H3413502
260 KINGSTON DR
N/F
LEAD M KINGSTON PROPERTIES LLC
DB 24091 PG 266
NO ACQUISITION

RTE. 231 / KINGSTON DR

MATCHLINE STA. 68+75.00

MATCHLINE STA. 73+75.00

KINGSTON APARTMENTS

HILLSIDE APARTMENTS

GENERAL NOTES:
1. SEE NOTES ON PLAN SHEET 1 OF 31.
2. ALL POWER POLES TO BE REMOVED AND RELOCATED BY OTHERS AS INDICATED (AMERENMO)
3. ALL EXISTING FIBER OPTIC IN THE CORRIDOR IS OWNED AND OPERATED BY OTHER ENTITIES.

LAYOUT	NS	01/2025
DRAWN	SMC	01/2025
REVIEWED	DJK	01/2025

PLAN SHEETS
SHEET 12 OF 31

STATE OF MISSOURI
DENNIS J. KOSCIELSKI
NUMBER PE-2005000712
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED 7/15/2025

ROUTE	STATE
231	MO
DISTRICT	SHEET NO.
SL	15

COUNTY ST. LOUIS
JOB NO. J6S3631
CONTRACT ID.
PROJECT NO.
BRIDGE NO.

DESCRIPTION	DATE

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

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SCALE
0 20 40 60

WOOLWICH LN
PENTONVILLE DR
RTE. 231 / KINGSTON DR
HILLSIDE APARTMENTS

28H340627
200 WOOLWICH LN
N/F
MARSALA, EDWARD & AMY, H/W
DB 15258 PG 756
NO ACQUISITION

28H340801
201 WOOLWICH LN
N/F
DAVID, ANGELA
DB 22132 PG 4280
NO ACQUISITION

28H340892
200 PENTONVILLE DR
N/F
COLLEEN S. FAULSTICH, TRUSTEE
DB 22745 PG 641
NO ACQUISITION

28H340517
201 SOUTHAMPTON DR
N/F
PEREZ, JORGE & GLORIA I., H/W
DOC # 202207290268
NO ACQUISITION

28H341042
201 PENTONVILLE DR
N/F
ALLEN, BOBBY J. & BARBARA, H/W
DB 11654 PG 1048
NO ACQUISITION

28H3413502
260 KINGSTON DR
N/F
LEAD M KINGSTON PROPERTIES LLC
DB 24091 PG 266
NO ACQUISITION

MATCHLINE STA. 73+75.00
MATCHLINE STA. 78+75.00

GENERAL NOTES:
1. SEE NOTES ON PLAN SHEET 1 OF 31.
2. ALL POWER POLES TO BE REMOVED AND RELOCATED BY OTHERS AS INDICATED (AMERENMO)
3. ALL EXISTING FIBER OPTIC IN THE CORRIDOR IS OWNED AND OPERATED BY OTHER ENTITIES.

LAYOUT	NS	01/2025
DRAWN	SMC	01/2025
REVIEWED	DJK	01/2025

PLAN SHEETS
SHEET 13 OF 31

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STATE OF MISSOURI
DENNIS J KOSCIELSKI
NUMBER PE-2005000712
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED
7/15/2025

ROUTE	STATE
231	MO
DISTRICT	SHEET NO.
SL	16

COUNTY
ST. LOUIS

JOB NO.
J6S3631

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION	DATE

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

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105 WEST CAPITOL
JEFFERSON CITY, MO 65102
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SCALE
0 20 40 60

RTE. 231 / KINGSTON DR

WALWORTH DR

LAMBETH LN

MATCHLINE STA. 78+75.00

MATCHLINE STA. 84+00.00

28H341042
201 PENTONVILLE DR
N/F
ALLEN, BOBBY J. & BARBARA, H/W
DB 11654 PG 1048
NO ACQUISITION

28H341130
200 WALWORTH DR
N/F
ELMS, STEPHEN P. & PAMELA E., H/W
DB 21220 PG 1446
NO ACQUISITION

28H620101
201 WALWORTH DR
N/F
MANDAL, MESUD & ELMA, H/W
DB 13234 PG 239
NO ACQUISITION

28H620200
200 LAMBETH LN
N/F
200 LAMBETH LLC
DOC # 2021070200832
NO ACQUISITION

28G410024
201 LAMBETH LN
N/F
JAKOVLJEVIC, DRAGO & DUBRAVKA, H/W
DB 13668 PG 1945
NO ACQUISITION

28H3413502
260 KINGSTON DR
N/F
LEAD M KINGSTON PROPERTIES LLC
DB 24091 PG 266
NO ACQUISITION

HILLSIDE APARTMENTS

(31)
28G130012
234 KINGSTON DR
N/F
SAM & MADHU, LLC
DB 19140 PG 931
NO ACQUISITION

SAM'S LIQUOR & CONVENIENCE
NATUREMED DISPENSARY
SLAMTOWN 2 BARBER & BEAUTY

(32)
28G410013
200 KINGSTON DR
N/F
TIERRA ASSET MANAGEMENT, LLC.
KINGSTON DRIVE SJS, LLC. AD
KINGSTON DRIVE, LLC &
CREATIVE VISION HOMES, LLC
DEED DOCUMENT 2022033100060
(PARCEL 2)
(SEE R/W PLANS FOR TAKING AREAS & REMAINDER AREAS)

HILLSIDE APARTMENTS

GENERAL NOTES:
1. SEE NOTES ON PLAN SHEET 1 OF 31.
2. ALL POWER POLES TO BE REMOVED AND RELOCATED BY OTHERS AS INDICATED (AMERENMO)
3. ALL EXISTING FIBER OPTIC IN THE CORRIDOR IS OWNED AND OPERATED BY OTHER ENTITIES.

PLAN SHEETS
SHEET 14 OF 31

LAYOUT	NS	01/2025
DRAWN	SMC	01/2025
REVIEWED	DJK	01/2025

STATE OF MISSOURI
DENNIS J KOSCIELSKI
NUMBER PE-2005000712
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED
7/15/2025

ROUTE	STATE
231	MO
DISTRICT	SHEET NO.
SL	17

COUNTY
ST. LOUIS

JOB NO.
J6S3631

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION	DATE

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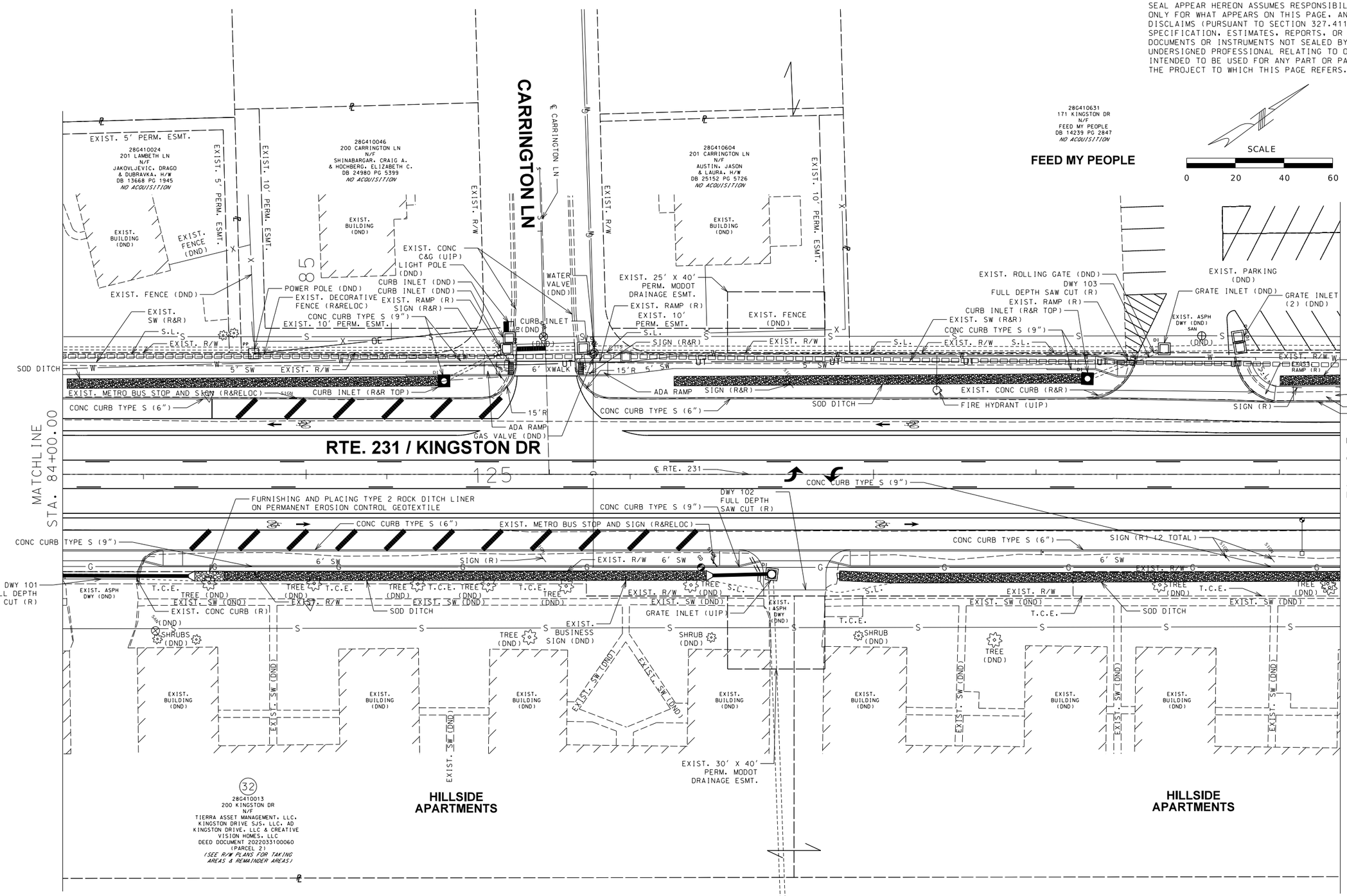
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GENERAL NOTES:
1. SEE NOTES ON PLAN SHEET 1 OF 31.
2. ALL POWER POLES TO BE REMOVED AND RELOCATED BY OTHERS AS INDICATED (AMERENMO)
3. ALL EXISTING FIBER OPTIC IN THE CORRIDOR IS OWNED AND OPERATED BY OTHER ENTITIES.

LAYOUT	NS	01/2025
DRAWN	SMC	01/2025
REVIEWED	DJK	01/2025

PLAN SHEETS
SHEET 15 OF 31

STATE OF MISSOURI
DENNIS J KOSCIELSKI
NUMBER PE-2005000712
PROFESSIONAL ENGINEER

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DATE PREPARED 7/15/2025

ROUTE	STATE
231	MO
DISTRICT	SHEET NO.
SL	18

COUNTY ST. LOUIS
JOB NO. J6S3631
CONTRACT ID.
PROJECT NO.
BRIDGE NO.

DESCRIPTION	DATE

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

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SCALE
0 20 40 60

28G410631
171 KINGSTON DR
N/F
FEED MY PEOPLE
DB 14239 PG 2847
NO ACQUISITION

FEED MY PEOPLE

28G410178
161 KINGSTON DR
N/F
SABANAGIC. FERID
DB 21873 PG 602
NO ACQUISITION

ARCH AUTO REPAIR SHOP

28G410651
159 KINGSTON DR
N/F
HADZIC. ENES
DB 22248 PG 2291
NO ACQUISITION

28G410288
155 KINGSTON DR
N/F
WRIGHT. TIMOTHY L. & KAREN A., H/W
DB 8014 PG 2292
NO ACQUISITION

28G4103328
151 KINGSTON DR
N/F
ECKMAN. AUDREY J. & BRETT A.
DB 11720 PG 1438
NO ACQUISITION

28G410387
147 KINGSTON DR
N/F
147 KINGSTON DRIVE LLC
DB 22155 PG 487
NO ACQUISITION

CLYDE AVE
EXIST. R/W
℄ CLYDE AVE
EXIST. PARKING (DND)
EXIST. METRO BUS STOP AND SIGN (R&RELOC)
SIGN (R BY MODOT PRIOR TO JOB)
GRATE INLET (DND)
EXIST. 25' PERM. MODOT DRAINAGE ESMT.
EXIST. GUARDRAIL (UIP)
CURB INLET (DND)
DWY 105 WATER VALVE (DND)
FULL DEPTH SAW CUT (R)
BOLLARD (DND)
DWY 106 FULL DEPTH SAW CUT (R)
DWY 107 FULL DEPTH SAW CUT (R)
DWY 109 FULL DEPTH SAW CUT (R)
DWY 111 FULL DEPTH SAW CUT (R)
EXIST. CONC CURB (DND)
EXIST. SW (DND)
EXIST. ASPH DWY (DND)
EXIST. BUILDING (DND)
SOD DITCH
SIGN (R) (2 TOTAL)
EXIST. SW (R&R)
ADA RAMP
6' SW
6' XWALK
10'R
12'R
CURB INLET (UIP)
GRATE INLET (UIP)
EXIST. CONC CURB (R&R)
CONC CURB TYPE S (6")
CONC MEDIAN
9' XWALK
8' CONC MEDIAN
EXIST. RAMP (R)
CURB INLET (R&R TOP)
EXIST. CONC CURB (UIP)
℄ RTE. 231
RTE. 231 / KINGSTON DR
MATCHLINE STA. 89+25.00
MATCHLINE STA. 94+25.00
(ATG)
SIGN (R)
4' SW
WATER VALVE (DND)
EXIST. CONC CURB (R)
EXIST. METRO BUS STOP AND SIGN (R&RELOC)
DWY 112 FULL DEPTH SAW CUT (R)
EXIST. R/W
EXIST. ASPH DWY (DND)
EXIST. BUSINESS SIGN (UIP)
CONCRETE BOLLARD (DND)
TREE (DND)
T.C.E.
EXIST. R/W
SOD DITCH
EXIST. SW (DND)
DWY 104 FULL DEPTH SAW CUT (R)
EXIST. PERM. MODOT DRAINAGE ESMT.
GAS VALVE (ATG)
CURB INLET (UIP)
CURB INLET (DND)
CONCRETE BOLLAR (DND)
DWY 108 FULL DEPTH SAW CUT (R)
EXIST. CONC CURB AND MEDIAN (R&R)
POWER POLE (DND)
WATER MAIN (DND)
GAS VALVE (DND)
DWY 110 FULL DEPTH SAW CUT (R)
EXIST. CONCRETE
EXIST. CONC CURB AND MEDIAN (R&R)
U.S. SURVEY NO. 904
U.S. SURVEY NO. 3340
KINGSTON AUTOMOTIVE SERVICE
VACANT (FORMERLY CAR WASH)
HILLSIDE APARTMENTS

(32)
28G410842
160 KINGSTON DR
N/F
TIERRA ASSET MANAGEMENT, LLC. KINGSTON DRIVE SJS, LLC. AD KINGSTON DRIVE, LLC. & CREATIVE VISION HOMES, LLC
DEED DOCUMENT 2022033100060
(PARCEL 2)
(SEE R/W PLANS FOR TAKING AREAS & REMAINDER AREAS)

(33)
28G410189
150 KINGSTON DR
N/F
MR YUMMY'S ENTERPRISES, LLC
DB 25188 PG 40
(SEE R/W PLANS FOR TAKING AREAS & REMAINDER AREAS)

(34)
28G410299
120 KINGSTON DR
N/F
ZERILLI. JOSEPH A. & LESLIE A., H/W
DB 13039 PG 2316
(SEE R/W PLANS FOR TAKING AREAS & REMAINDER AREAS)

GENERAL NOTES:
1. SEE NOTES ON PLAN SHEET 1 OF 31.
2. ALL POWER POLES TO BE REMOVED AND RELOCATED BY OTHERS AS INDICATED (AMERENMO)
3. ALL EXISTING FIBER OPTIC IN THE CORRIDOR IS OWNED AND OPERATED BY OTHER ENTITIES.

PLAN SHEETS
SHEET 16 OF 31

LAYOUT	NS	01/2025
DRAWN	SMC	01/2025
REVIEWED	DJK	01/2025

STATE OF MISSOURI
DENNIS J KOSCIELSKI
NUMBER PE-2005000712
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED
7/15/2025

ROUTE	STATE
231	MO
DISTRICT	SHEET NO.
SL	19

COUNTY
ST. LOUIS

JOB NO.
J6S3631

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION | DATE

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

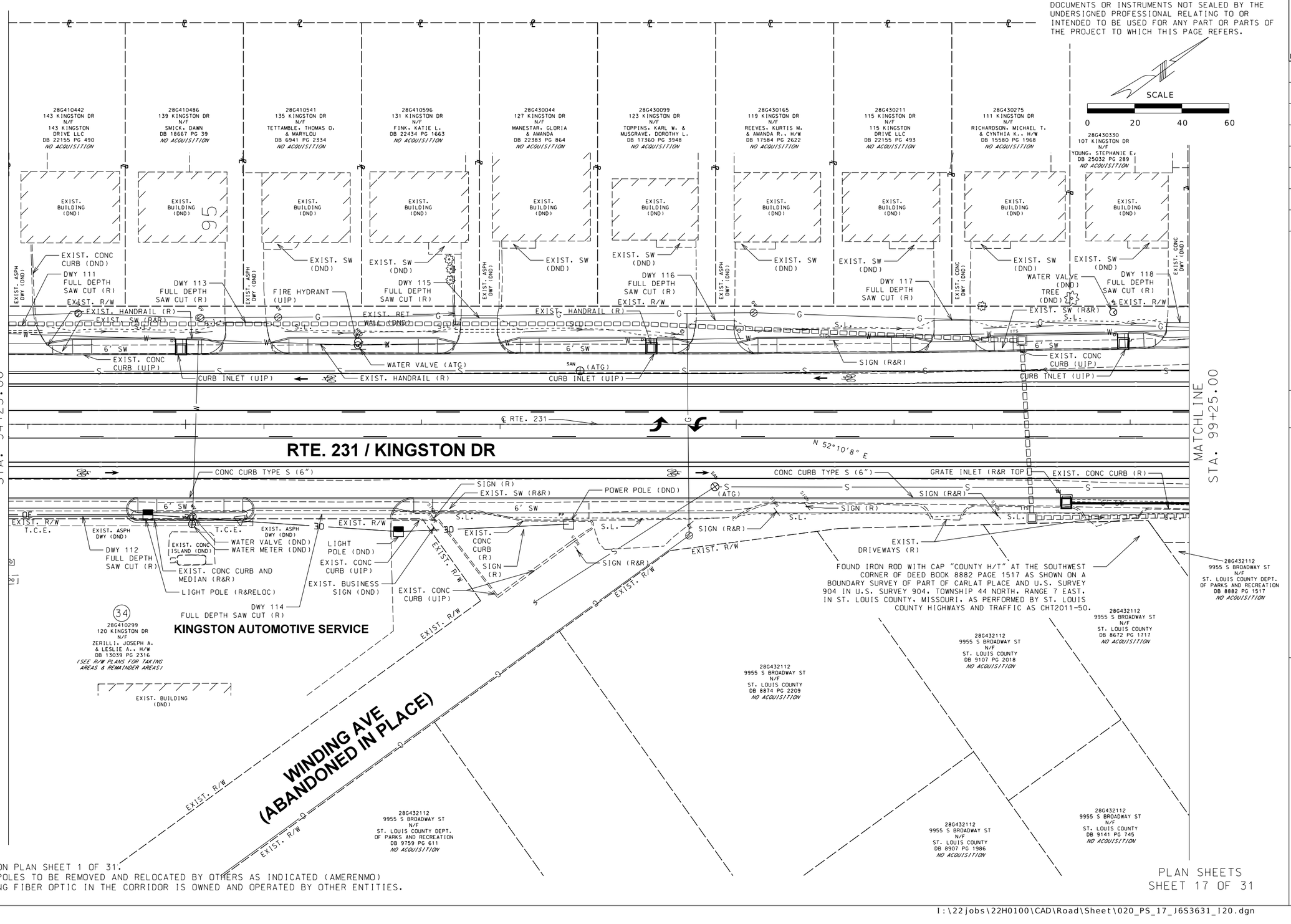
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GENERAL NOTES:
1. SEE NOTES ON PLAN SHEET 1 OF 31.
2. ALL POWER POLES TO BE REMOVED AND RELOCATED BY OTHERS AS INDICATED (AMERENMO)
3. ALL EXISTING FIBER OPTIC IN THE CORRIDOR IS OWNED AND OPERATED BY OTHER ENTITIES.

PLAN SHEETS
SHEET 17 OF 31

LAYOUT	NS	01/2025
DRAWN	SMC	01/2025
REVIEWED	DJK	01/2025

STATE OF MISSOURI
DENNIS J KOSCIELSKI
NUMBER PE-2005000712
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED
7/15/2025

ROUTE	STATE
231	MO
DISTRICT	SHEET NO.
SL	20

COUNTY
ST. LOUIS

JOB NO.
J6S3631

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION	DATE

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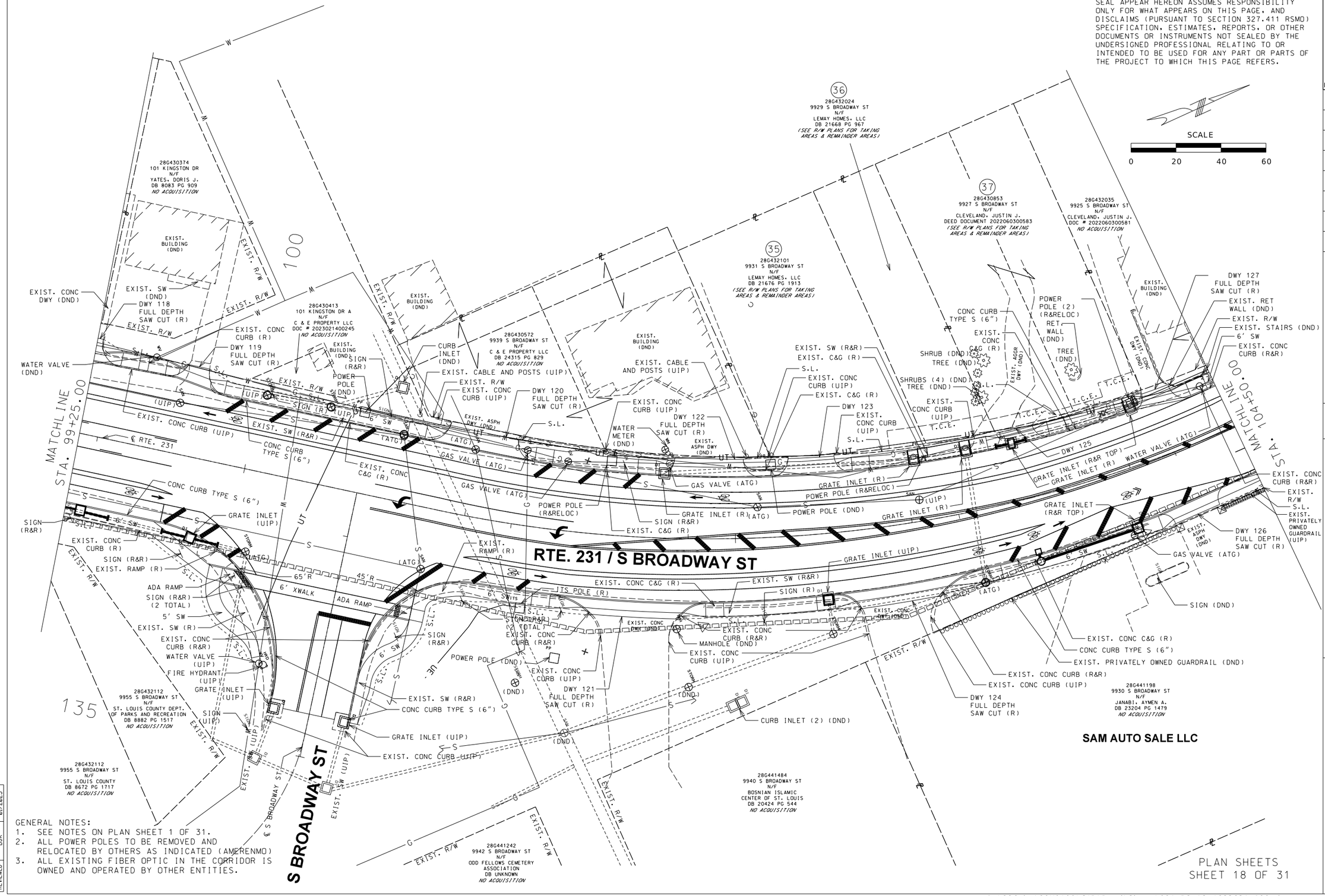
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GENERAL NOTES:
1. SEE NOTES ON PLAN SHEET 1 OF 31.
2. ALL POWER POLES TO BE REMOVED AND RELOCATED BY OTHERS AS INDICATED (AMERENMO)
3. ALL EXISTING FIBER OPTIC IN THE CORRIDOR IS OWNED AND OPERATED BY OTHER ENTITIES.

SCALE
0 20 40 60

PLAN SHEETS
SHEET 18 OF 31

LAYOUT	NS	01/2025
DRAWN	SMC	01/2025
REVIEWED	DJK	01/2025

STATE OF MISSOURI
DENNIS J KOSCIELSKI
NUMBER PE-2005000712
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED
7/15/2025

ROUTE	STATE
231	MO
DISTRICT	SHEET NO.
SL	21

COUNTY
ST. LOUIS

JOB NO.
J6S3631

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION	DATE

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

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STATE OF MISSOURI
DENNIS J KOSCIELSKI
NUMBER PE-2005000712
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED	
7/15/2025	
ROUTE	STATE
231	MO
DISTRICT	SHEET NO.
SL	22
COUNTY	
ST. LOUIS	
JOB NO.	
J6S3631	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

NO	DATE	DESCRIPTION

SCALE
0 20 40 60

28G432035
9925 S BROADWAY ST
N/F
CLEVELAND, JUSTIN J.
DOC # 2022060300581
NO ACQUISITION

28G431034
9925 S BROADWAY ST
N/F
CLEVELAND, JUSTIN J.
DOC # 2022060300581
NO ACQUISITION

28G431111
9917 S BROADWAY ST
N/F
HOUSE 7 LLC
DB 23130 PG 2504
NO ACQUISITION

28G431210
9915 S BROADWAY ST
N/F
THE ALVIN L. LASHMAN & CHARLOTTE A. LASHMAN REVOCABLE TRUST
DB 13858 PG 1298
NO ACQUISITION

28G431287
9911 S BROADWAY ST
N/F
THE ALVIN L. LASHMAN & CHARLOTTE A. LASHMAN REVOCABLE TRUST
DB 13858 PG 1295
NO ACQUISITION

28G431843
9905 S BROADWAY ST
N/F
LEMAY HOMES LLC
DB 20718 PG 119
NO ACQUISITION

(38)
28G431834
9901 S BROADWAY ST
N/F
LEMAY HOMES, LLC
DB 20718 PG 119 (PARCEL 1)
(SEE R/W PLANS FOR TAKING AREAS & REMAINDER AREAS)

28G431852
9851 S BROADWAY ST
N/F
ST. LOUIS COUNTY PORT AUTHORITY
DOC # 2022091200410
NO ACQUISITION

(39)
28G431861
9853 S BROADWAY ST
N/F
HANCOCK PLACE SCHOOL DISTRICT
DEED DOCUMENT 2022091200410
(SEE R/W PLANS FOR TAKING AREAS & REMAINDER AREAS)

28G431683
9847 S BROADWAY ST
N/F
ALLBRITE AUTO CLEANUP INC.
DB 17745 PG 4685
NO ACQUISITION

ALL BRITE AUTO CLEANUP

RIPA AVE

RTE. 231 / S BROADWAY ST

MATCHLINE STA. 104+50.00

MATCHLINE STA. 109+50.00

28G441198
9930 S BROADWAY ST
N/F
JANABI, AYMEN A.
DB 23204 PG 1479
NO ACQUISITION

SAM AUTO SALE LLC

28G440304
9920 S BROADWAY ST
N/F
FINKLANG, JAMES & ROHMAN, THERESA
DB 23330 PG 64
NO ACQUISITION

28G440362
9916 S BROADWAY ST
N/F
9916 S. BROADWAY LLC
DB 24805 PG 81
NO ACQUISITION

28G440450
9912 S BROADWAY ST
N/F
KEMPLAND, THOMAS E. & BARBARA E., H/W
DB 20710 PG 1553
NO ACQUISITION

REDISCOVER ANTIQUES & COLLECTIBLES

(40)
27G441451
9900 S BROADWAY ST
N/F
BEKIROV, BAYRAM, BEKIROV, KAMOL, & BEKIROV, RUSTAM
DB 24656 PG 2883
(SEE R/W PLANS FOR TAKING AREAS & REMAINDER AREAS)

B MOTORS LLC

(41)
28G441462
9854 S BROADWAY ST
N/F
HANCOCK PLACE SCHOOL DISTRICT
DEED DOCUMENT 2022091200410
(PARCEL 3, TRACT 1)
(SEE R/W PLANS FOR TAKING AREAS & REMAINDER AREAS)

27G121864
9828 S BROADWAY ST
N/F
THE INDUSTRIAL DEVELOPMENT AUTHORITY OF THE COUNTY OF ST. LOUIS, MISSOURI
DB 17750 PG 3829
NO ACQUISITION

EXIST. BUILDING (DND)
EXIST. STAIRS (DND)
DWY 129 FULL DEPTH SAW CUT (R)
EXIST. RET WALL (DND)
EXIST. FENCE (DND)
EXIST. R/W
EXIST. SW (R&R)
WATER VALVE (ATG)
EXIST. RET WALL (DND)
DWY 132 FULL DEPTH SAW CUT (R)
CONC CURB TYPE S (9")
SIGN (R&R)
POWER POLE (DND)
EXIST. STEPS (R)
EXIST. METRO BUS STOP AND SIGN (R&RELOC)
WATER METER (DND)
WATER VALVE (ATG)
EXIST. CONC CURB (R&R)
CONC CURB TYPE S (6")
EXIST. CONC C&G (R)
SIGNAL POST (R&R)
ADA RAMP
EXIST. RAMP (R)
PERM. ESMT.
GRATE INLET (UIP)
EXIST. SW (R&R)
MAST ARM (UIP)
NEW R/W
CURB INLET (UIP)
I.C.E.
FIRE HYDRANT (DND)
HANDHOLE (UIP)
8' XWALK
20'R
13.5'R
POWER POLE (R&RELOC)
LIGHT POLE (DND)
DWY 134 FULL DEPTH SAW CUT (R)
GAS VALVE (ATG)
PULL BOX (UIP)
CONC CURB TYPE S (6")
EXIST. SW (R&R)
EXIST. CONC CURB (R&R)
DWY 130 FULL DEPTH SAW CUT (R)
EXIST. CONC CURB (R&R)
DWY 131 FULL DEPTH SAW CUT (R)
EXIST. BUSINESS SIGN (R&RELOC)
EXIST. FENCE (DND)
WAYER METER (DND)
EXIST. PARKING (DND)
DWY 133 FULL DEPTH SAW CUT (R)
EXIST. PRIVATELY OWNED GUARDRAIL (DND)
LIGHT POLE (DND)
DWY 128 FULL DEPTH SAW CUT (R)
GRATE INLET (DND)
EXIST. CONC C&G (UIP)
CONTROLLER CABINET (R&R)
EXIST. HANCOCK PLACE HIGH SCHOOL LANDMARK (DND)
EXIST. STONE WALL (DND)
EXIST. CONC CURB (UIP)
SIGN (UIP)
EXIST. METRO BUS STOP (DND)
EXIST. METRO BUS STOP SIGN (R&RELOC)

GENERAL NOTES:
1. SEE NOTES ON PLAN SHEET 1 OF 31.
2. ALL POWER POLES TO BE REMOVED AND RELOCATED BY OTHERS AS INDICATED (AMERENMO)
3. ALL EXISTING FIBER OPTIC IN THE CORRIDOR IS OWNED AND OPERATED BY OTHER ENTITIES.

LAYOUT	NS	01/2025
DRAWN	SMC	01/2025
REVIEWED	DJK	01/2025

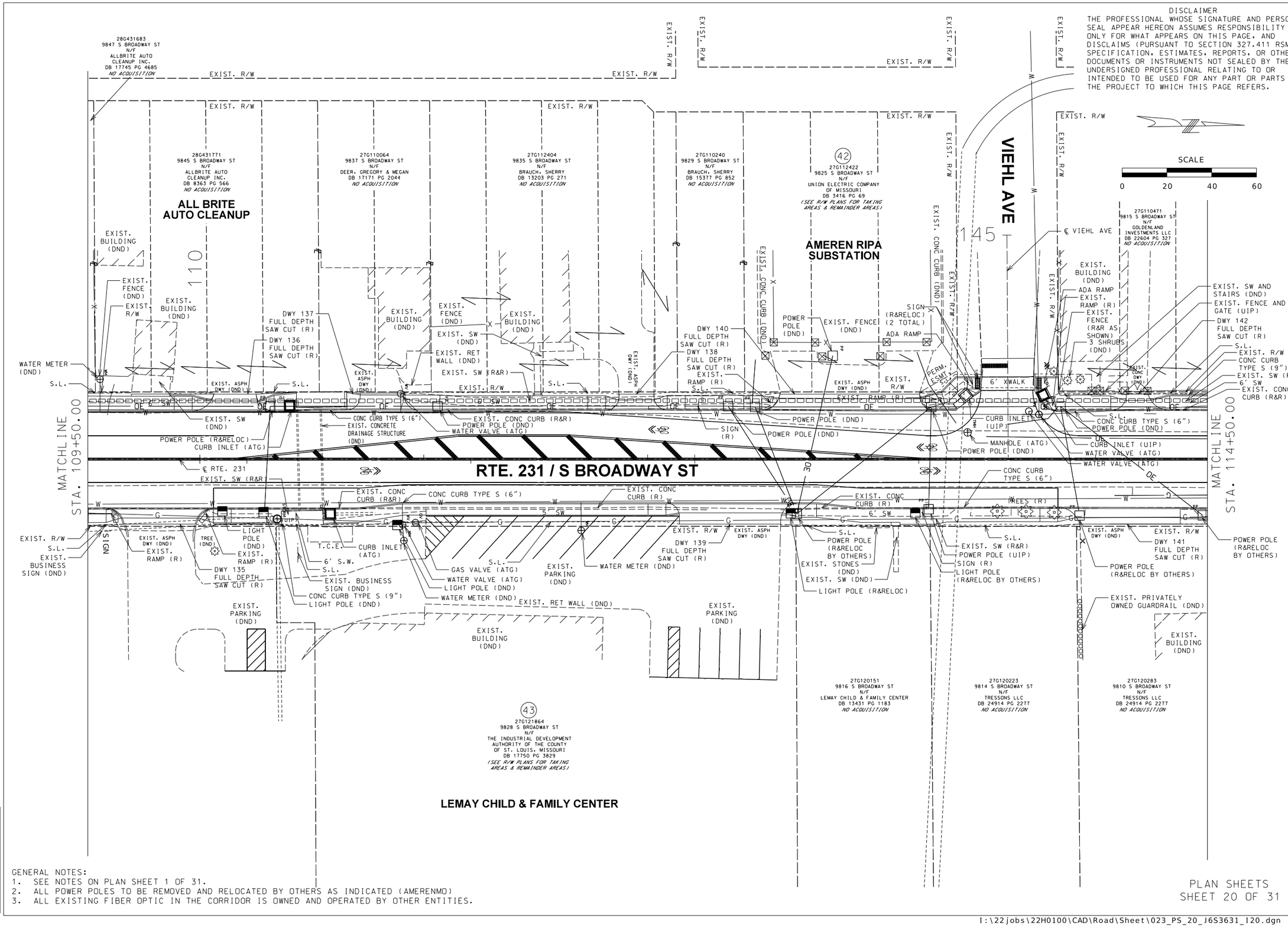
PLAN SHEETS
SHEET 19 OF 31

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
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GENERAL NOTES:
1. SEE NOTES ON PLAN SHEET 1 OF 31.
2. ALL POWER POLES TO BE REMOVED AND RELOCATED BY OTHERS AS INDICATED (AMERENMO)
3. ALL EXISTING FIBER OPTIC IN THE CORRIDOR IS OWNED AND OPERATED BY OTHER ENTITIES.

LAYOUT	NS	01/2025
DRAWN	SMC	01/2025
REVIEWED	DJK	01/2025

PLAN SHEETS
SHEET 20 OF 31

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STATE OF MISSOURI
DENNIS J KOSCIELSKI
NUMBER PE-2005000712
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED
7/15/2025

ROUTE	STATE
231	MO
DISTRICT	SHEET NO.
SL	23

COUNTY
ST. LOUIS

JOB NO.
J6S3631

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DATE	DESCRIPTION

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SCALE
0 20 40 60

STATE OF MISSOURI
DENNIS J KOSCIELSKI
NUMBER PE-2005000712
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THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED
7/15/2025

ROUTE	STATE
231	MO
DISTRICT	SHEET NO.
SL	24

COUNTY
ST. LOUIS

JOB NO.
J6S3631

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

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NO.	DESCRIPTION	DATE

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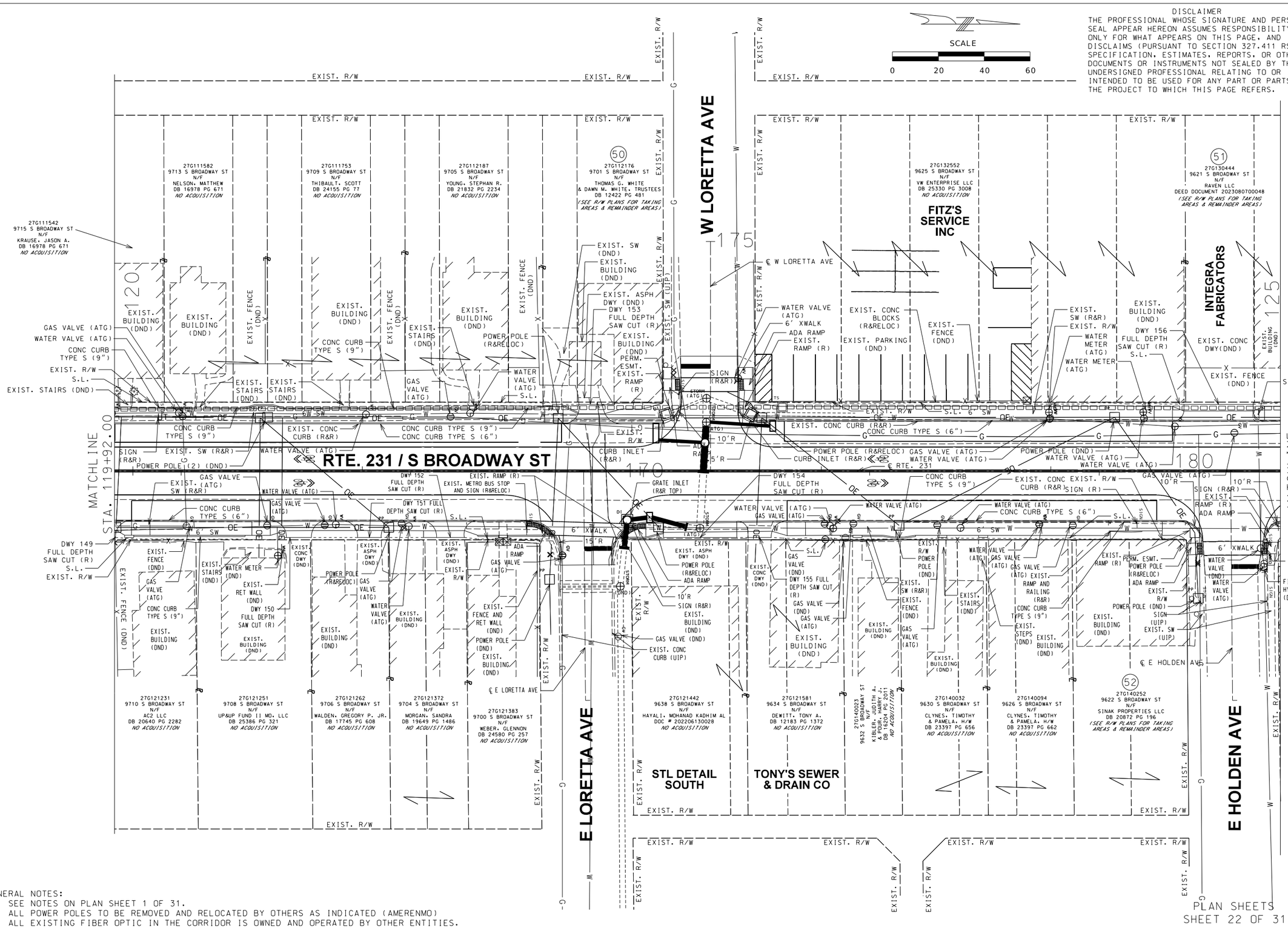
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LAYOUT	NS	01/2025
DRAWN	SMC	01/2025
REVIEWED	DJK	01/2025

GENERAL NOTES:
1. SEE NOTES ON PLAN SHEET 1 OF 31.
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3. ALL EXISTING FIBER OPTIC IN THE CORRIDOR IS OWNED AND OPERATED BY OTHER ENTITIES.

PLAN SHEETS
SHEET 21 OF 31

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RTE. 231 / S BROADWAY ST
W LORETTA AVE
E LORETTA AVE
E HOLDEN AVE
MATCHLINE STA. 119+92.00
MATCHLINE STA. 125+00.00
SCALE
0 20 40 60
27G111582 9713 S BROADWAY ST N/F NELSON. MATTHEW DB 16978 PG 671 NO ACQUISITION
27G111753 9709 S BROADWAY ST N/F THIBAULT. SCOTT DB 24155 PG 77 NO ACQUISITION
27G112187 9705 S BROADWAY ST N/F YOUNG. STEPHAN R. DB 21832 PG 2234 NO ACQUISITION
27G112176 9701 S BROADWAY ST N/F THOMAS G. WHITE & DAWN M. WHITE. TRUSTEES DB 12422 PG 481 (SEE R/W PLANS FOR TAKING AREAS & REMAINDER AREAS)
27G111542 9715 S BROADWAY ST N/F KRAUSE. JASON A. DB 16978 PG 671 NO ACQUISITION
27G132552 9625 S BROADWAY ST N/F VW ENTERPRISE LLC DB 25330 PG 3008 NO ACQUISITION
27G130444 9621 S BROADWAY ST N/F RAVEN LLC DEED DOCUMENT 2023080700048 (SEE R/W PLANS FOR TAKING AREAS & REMAINDER AREAS)
FITZ'S SERVICE INC
INTEGRA FABRICATORS
27G121231 9710 S BROADWAY ST N/F AC2 LLC DB 20640 PG 2282 NO ACQUISITION
27G121251 9708 S BROADWAY ST N/F UP&UP FUND II MO. LLC DB 25386 PG 321 NO ACQUISITION
27G121262 9706 S BROADWAY ST N/F WALDEN. GREGORY P. JR. DB 17745 PG 608 NO ACQUISITION
27G121372 9704 S BROADWAY ST N/F MORGAN. SANDRA DB 19649 PG 1486 NO ACQUISITION
27G121383 9700 S BROADWAY ST N/F WEBER. GLENNON DB 24580 PG 257 NO ACQUISITION
27G121442 9638 S BROADWAY ST N/F HAYALI. MOHANAD KADHIM AL DOC # 202206130028 NO ACQUISITION
27G121581 9634 S BROADWAY ST N/F DEWITT. TONY A. DB 12183 PG 1372 NO ACQUISITION
27G140032 9630 S BROADWAY ST N/F CLYNES. TIMOTHY & PAMELA. H/W DB 23397 PG 656 NO ACQUISITION
27G140094 9626 S BROADWAY ST N/F CLYNES. TIMOTHY & PAMELA. H/W DB 23397 PG 662 NO ACQUISITION
27G140252 9622 S BROADWAY ST N/F SINAK PROPERTIES LLC DB 20872 PG 196 (SEE R/W PLANS FOR TAKING AREAS & REMAINDER AREAS)
STL DETAIL SOUTH
TONY'S SEWER & DRAIN CO
EXIST. R/W
EXIST. BUILDING (DND)
EXIST. FENCE (DND)
EXIST. STAIRS (DND)
EXIST. STAIRS STAIRS (DND)
EXIST. RAMP (R)
EXIST. METRO BUS STOP AND SIGN (R&RELOC)
EXIST. CONC BLOCKS (R&RELOC)
EXIST. PARKING (DND)
EXIST. CONC DWY(DND)
EXIST. CONC CURB (R&R)
EXIST. CONC CURB TYPE S (6")
EXIST. CONC CURB TYPE S (9")
EXIST. SW (DND)
EXIST. SW (UIP)
EXIST. SW (R&R)
EXIST. ASPH DWY (DND)
EXIST. ASPH DWY (DND) DWY 153 FULL DEPTH SAW CUT (R)
EXIST. BUILDING (DND) PERM. ESMT. EXIST. RAMP (R)
EXIST. BUILDING (DND) DWY 156 FULL DEPTH SAW CUT (R) S.L.
EXIST. BUILDING (DND) DWY 154 FULL DEPTH SAW CUT (R)
EXIST. BUILDING (DND) DWY 155 FULL DEPTH SAW CUT (R)
EXIST. BUILDING (DND) DWY 152 FULL DEPTH SAW CUT (R)
EXIST. BUILDING (DND) DWY 151 FULL DEPTH SAW CUT (R)
EXIST. BUILDING (DND) DWY 150 FULL DEPTH SAW CUT (R)
EXIST. ASPH DWY (DND) DWY 149 FULL DEPTH SAW CUT (R) S.L.
EXIST. FENCE AND RET WALL (DND)
EXIST. RET WALL (DND)
EXIST. WATER METER (DND)
EXIST. STEPS (DND)
EXIST. RAMP AND RAILING (R&R)
EXIST. PERM. ESMT. POWER POLE (R&RELOC)
WATER METER (ATG)
WATER VALVE (ATG)
WATER VALVE (ATG) 6' XWALK ADA RAMP EXIST. RAMP (R)
GAS VALVE (ATG)
GAS VALVE (DND)
GAS VALVE (ATG) EXIST. RAMP AND RAILING (R&R)
GAS VALVE (ATG) EXIST. SW (R&R)
GAS VALVE (ATG) EXIST. SW (R&R) EXIST. FENCE (DND)
GAS VALVE (ATG) EXIST. STAIRS (DND)
GAS VALVE (ATG) EXIST. R/W POWER POLE (DND)
GAS VALVE (ATG) EXIST. R/W WATER METER (ATG) WATER METER
GAS VALVE (ATG) EXIST. SW (R&R) EXIST. R/W WATER METER (ATG)
GAS VALVE (ATG) WATER VALVE (ATG)
GAS VALVE (ATG) WATER VALVE (ATG) CONC CURB TYPE S (6")
GAS VALVE (ATG) WATER VALVE (ATG) CONC CURB TYPE S (9")
GAS VALVE (ATG) WATER VALVE (ATG) EXIST. CONC EXIST. R/W CURB (R&R)
GAS VALVE (ATG) WATER VALVE (ATG) POWER POLE (R&RELOC)
GAS VALVE (ATG) WATER VALVE (ATG) POWER POLE (R&RELOC) CURB INLET (R&R)
GAS VALVE (ATG) WATER VALVE (ATG) POWER POLE (DND)
GAS VALVE (ATG) WATER VALVE (ATG) POWER POLE (R&RELOC) GAS VALVE (ATG) WATER VALVE (ATG)
GAS VALVE (ATG) WATER VALVE (ATG) SIGN (R&R) EXIST. RAMP (R) ADA RAMP
GAS VALVE (ATG) WATER VALVE (ATG) SIGN (R&R) EXIST. SW (R&R)
GAS VALVE (ATG) WATER VALVE (ATG) SIGN (R&R) FIRE HYDRANT (DND)
GAS VALVE (ATG) WATER VALVE (ATG) SIGN (R&R) EXIST. SW (UIP)
GAS VALVE (ATG) WATER VALVE (ATG) SIGN (R&R) EXIST. SW (UIP) EXIST. R/W
GAS VALVE (ATG) WATER VALVE (ATG) SIGN (R&R) EXIST. SW (UIP) EXIST. R/W WATER VALVE (ATG)
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GAS VALVE (ATG) WATER VALVE (ATG) SIGN (R&R) EXIST. SW (UIP) EXIST. R/W WATER VALVE (ATG) WATER VALVE (DND) EXIST. FENCE (DND) EXIST. BUILDING (DND)
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GAS VALVE (ATG) WATER VALVE (ATG) SIGN (R&R) EXIST. SW (UIP) EXIST. R/W WATER VALVE (ATG) WATER VALVE (DND) EXIST. FENCE (DND) EXIST. BUILDING (DND) EXIST. CONC DWY (DND) EXIST. CONC CURB (UIP) EXIST. FENCE (DND) EXIST. FENCE (DND)
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GAS VALVE (ATG) WATER VALVE (ATG) SIGN (R&R) EXIST. SW (UIP) EXIST. R/W WATER VALVE (ATG) WATER VALVE (DND) EXIST. FENCE (DND) EXIST. BUILDING (DND) EXIST. CONC DWY (DND) EXIST. CONC CURB (UIP) EXIST. FENCE (DND) EXIST. FENCE (DND) EXIST. FENCE (DND) EXIST. FENCE (DND)
GAS VALVE (ATG) WATER VALVE (ATG) SIGN (R&R) EXIST. SW (UIP) EXIST. R/W WATER VALVE (ATG) WATER VALVE (DND) EXIST. FENCE (DND) EXIST. BUILDING (DND) EXIST. CONC DWY (DND) EXIST. CONC CURB (UIP) EXIST. FENCE (DND) EXIST. FENCE (DND) EXIST. FENCE (DND) EXIST. FENCE (DND) EXIST. FENCE (DND)
GAS VALVE (ATG) WATER VALVE (ATG) SIGN (R&R) EXIST. SW (UIP) EXIST. R/W WATER VALVE (ATG) WATER VALVE (DND) EXIST. FENCE (DND) EXIST. BUILDING (DND) EXIST. CONC DWY (DND) EXIST. CONC CURB (UIP) EXIST. FENCE (DND) EXIST. FENCE (DND) EXIST. FENCE (DND) EXIST. FENCE (DND) EXIST. FENCE (DND) EXIST. FENCE (DND)
GAS VALVE (ATG) WATER VALVE (ATG) SIGN (R&R) EXIST. SW (UIP) EXIST. R/W WATER VALVE (ATG) WATER VALVE (DND) EXIST. FENCE (DND) EXIST. BUILDING (DND) EXIST. CONC DWY (DND) EXIST. CONC CURB (UIP) EXIST. FENCE (DND) EXIST. FENCE (DND) EXIST. FENCE (DND) EXIST. FENCE (DND) EXIST. FENCE (DND) EXIST. FENCE (DND) EXIST. FENCE (DND)
GAS VALVE (ATG) WATER VALVE (ATG) SIGN (R&R) EXIST. SW (UIP) EXIST. R/W WATER VALVE (ATG) WATER VALVE (DND) EXIST. FENCE (DND) EXIST. BUILDING (DND) EXIST. CONC DWY (DND) EXIST. CONC CURB (UIP) EXIST. FENCE (DND) EXIST. FENCE (DND) EXIST. FENCE (DND) EXIST. FENCE (DND) EXIST. FENCE (DND) EXIST. FENCE (DND) EXIST. FENCE (DND) EXIST. FENCE (DND)
GAS VALVE (ATG) WATER VALVE (ATG) SIGN (R&R) EXIST. SW (UIP) EXIST. R/W WATER VALVE (ATG) WATER VALVE (DND) EXIST. FENCE (DND) EXIST. BUILDING (DND) EXIST. CONC DWY (DND) EXIST. CONC CURB (UIP) EXIST. FENCE (DND

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SCALE
0 20 40 60

STATE OF MISSOURI
DENNIS J KOSCIELSKI
NUMBER PE-2005000712
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED	
7/15/2025	
ROUTE	STATE
231	MO
DISTRICT	SHEET NO.
SL	26
COUNTY	
ST. LOUIS	
JOB NO.	
J6S3631	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

NO	DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

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LAYOUT	NS	01/2025
DRAWN	SMC	01/2025
REVIEWED	DJK	01/2025

GENERAL NOTES:
1. SEE NOTES ON PLAN SHEET 1 OF 31.
2. ALL POWER POLES TO BE REMOVED AND RELOCATED BY OTHERS AS INDICATED (AMERENMO)
3. ALL EXISTING FIBER OPTIC IN THE CORRIDOR IS OWNED AND OPERATED BY OTHER ENTITIES.

PLAN SHEETS
SHEET 23 OF 31

I:\22jobs\22H0100\CAD\Road\Sheet\026_PS_23_J6S3631_I20.dgn

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SCALE
0 20 40 60

STATE OF MISSOURI
DENNIS J KOSCIELSKI
NUMBER PE-2005000712
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED
7/15/2025

ROUTE	STATE
231	MO
DISTRICT	SHEET NO.
SL	27

COUNTY
ST. LOUIS

JOB NO.
J6S3631

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

DESCRIPTION	DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
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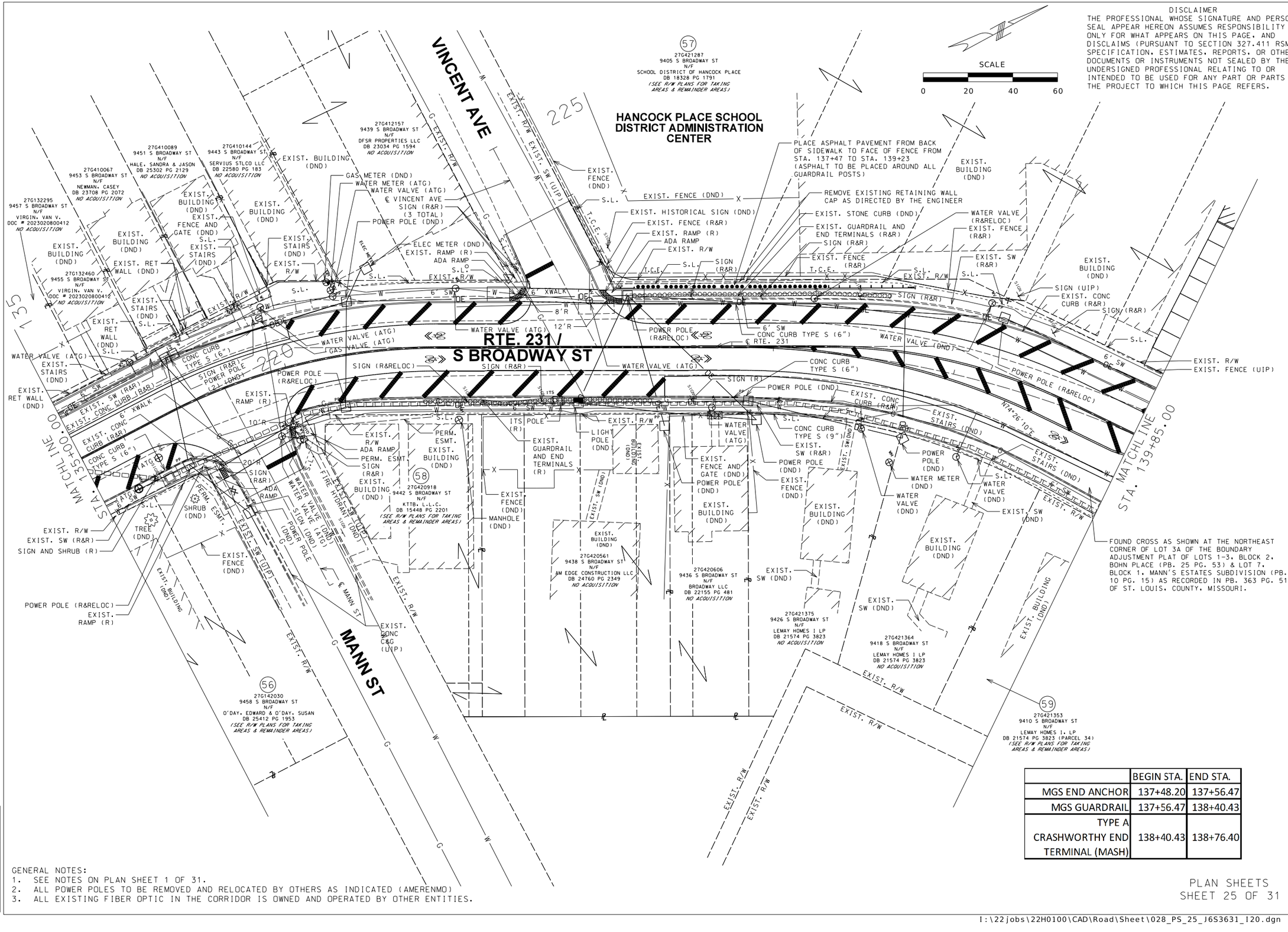
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LAYOUT	NS	01/2025
DRAWN	SMC	01/2025
REVIEWED	DJK	01/2025

GENERAL NOTES:
1. SEE NOTES ON PLAN SHEET 1 OF 31.
2. ALL POWER POLES TO BE REMOVED AND RELOCATED BY OTHERS AS INDICATED (AMERENMO)
3. ALL EXISTING FIBER OPTIC IN THE CORRIDOR IS OWNED AND OPERATED BY OTHER ENTITIES.

PLAN SHEETS
SHEET 24 OF 31

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	BEGIN STA.	END STA.
MGS END ANCHOR	137+48.20	137+56.47
MGS GUARDRAIL	137+56.47	138+40.43
TYPE A CRASHWORTHY END TERMINAL (MASH)	138+40.43	138+76.40

GENERAL NOTES:
1. SEE NOTES ON PLAN SHEET 1 OF 31.
2. ALL POWER POLES TO BE REMOVED AND RELOCATED BY OTHERS AS INDICATED (AMERENMO)
3. ALL EXISTING FIBER OPTIC IN THE CORRIDOR IS OWNED AND OPERATED BY OTHER ENTITIES.

PLAN SHEETS
SHEET 25 OF 31

LAYOUT	NS	01/2025
DRAWN	SMC	01/2025
REVIEWED	DJK	01/2025

STATE OF MISSOURI
DENNIS J. KOSCIELSKI
NUMBER PE-2005000712
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED
7/15/2025

ROUTE	STATE
231	MO
DISTRICT	SHEET NO.
SL	28

COUNTY
ST. LOUIS

JOB NO.
J6S3631

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION	DATE

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
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JEFFERSON CITY, MO 65102
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SCALE
0 20 40 60

MATCHLINE STA. 139+85.00

MATCHLINE STA. 145+25.00

57
27G421287
9405 S BROADWAY ST
N/F
SCHOOL DISTRICT OF HANCOCK PLACE
DB 18328 PG 1791
(SEE R/W PLANS FOR TAKING AREAS & REMAINDER AREAS)

HANCOCK PLACE SCHOOL DISTRICT ADMINISTRATION CENTER

60
27G420990
260 HOFFMEISTER AVE
N/F
7-ELEVEN, INC
DB 19506 PG 1835
(SEE R/W PLANS FOR TAKING AREAS & REMAINDER AREAS)

7-ELEVEN

MILITARY RD

HOFFMEISTER AVE

27G421311
9365 S BROADWAY ST
N/F
ALRUBAYE, ALI
DB 24008 PG 2203
NO ACQUISITION

A & O AUTO PLAZA

27G421276
9359 S BROADWAY ST
N/F
CCC LEMAY LLC
DB 13351 PG 2075
NO ACQUISITION

RTE. 231 / S BROADWAY ST

E GOETZ AVE

59
27G421353
9410 S BROADWAY ST
N/F
LEMAY HOMES I, LP
DB 21574 PG 3823
(PARCEL 341)
(SEE R/W PLANS FOR TAKING AREAS & REMAINDER AREAS)

27G421188
9406 S BROADWAY ST
N/F
ALL TYPE HYDRAULIC REPAIR INC
DB 8043 PG 1320
NO ACQUISITION

C & K AUTO REPAIR

IN N OUT LIQUOR

27G421201
9400 S BROADWAY ST
N/F
JANM INC
DB 22346 PG 4404
NO ACQUISITION

27G421221
9398 S BROADWAY ST
N/F
JANM INC
DB 22346 PG 4400
NO ACQUISITION

27G510080
9214 S BROADWAY ST
N/F
METROPOLITAN ST. LOUIS SEWER DISTRICT
DB 6305 PG 1288
NO ACQUISITION

METROPOLITAN ST. LOUIS SEWER DISTRICT LEMAY PLANT

℄ HOFFMEISTER AVE

℄ MILITARY RD

℄ RTE. 231

℄ E GOETZ AVE

GENERAL NOTES:
1. SEE NOTES ON PLAN SHEET 1 OF 31.
2. BENCHMARK (NAVD 88)
   ST. LOUIS COUNTY BENCHMARK 20-016, "STANDARD TABLET" STAMPED 114 75 S.L.C. SET IN THE SOUTHWEST SIDE OF THE CONC TRAFFIC SIGNAL BASE AT THE SOUTHEST CORNER OF HOFFMEISTER AVENUE AND MILITARY ROAD.
3. ALL POWER POLES TO BE REMOVED AND RELOCATED BY OTHERS AS INDICATED (AMERENMO)
4. ALL EXISTING FIBER OPTIC IN THE CORRIDOR IS OWNED AND OPERATED BY OTHER ENTITIES.

PLAN SHEETS
SHEET 26 OF 31

LAYOUT	NS	01/2025
DRAWN	SMC	01/2025
REVIEWED	DJK	01/2025

STATE OF MISSOURI
DENNIS J KOSCIELSKI
NUMBER PE-2005000712
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED
7/15/2025

ROUTE	STATE
231	MO
DISTRICT	SHEET NO.
SL	29

COUNTY
ST. LOUIS

JOB NO.
J6S3631

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DATE	DESCRIPTION

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SCALE
0 20 40 60

27G421276
9359 S BROADWAY ST
N/F
CCC LEMAY LLC
DB 13351 PG 2075
NO ACQUISITION

27G421265
9353 S BROADWAY ST
N/F
CCC LEMAY LLC
DB 13351 PG 2075
NO ACQUISITION

27G421111
9331 S BROADWAY ST
N/F
DISTRIBUTORS INVESTMENT COMPANY
DB 22778 PG 4239
NO ACQUISITION

27G421122
9327 S BROADWAY ST
N/F
DISTRIBUTORS INVESTMENT COMPANY
DB 22778 PG 4239
NO ACQUISITION

61
27G420853
9311 S BROADWAY ST
N/F
SPIRIT ENERGY, LLC
DB 14390 PG 1471
(SEE R/W PLANS FOR TAKING AREAS & REMAINDER AREAS)

MSP DIESEL SOLUTIONS

CIRCLE K

MATCHLINE STA. 145+25.00

MATCHLINE STA. 150+25.00

BUSINESS SIGN (DND)
EXIST. FENCE (DND)
EXIST. BUILDING (DND)
EXIST. PARKING (DND)
EXIST. FENCE AND GATE (DND)
EXIST. POLES (DND)
SIGN (UIP)
DWY 174 FULL DEPTH SAW CUT (R)
DWY 175 FULL DEPTH SAW CUT (R)
DWY 176 FULL DEPTH SAW CUT (R)
DRAIN OUTLET (DND)
CONC CURB TYPE S (9")
SIGN (R&RELOC)
EXIST. SW (R&R)
EXIST. 5' PERM. ESMT.
EXIST. 5' X 10' PERM. ESMT. TO LACLEDE GAS CO.
GAS VALVE (DND)
EXIST. ASPH DWY (DND)
EXIST. CONC DWY (DND)
EXIST. R/W
S.L.
6' SW
POWER POLE (DND)
EXIST. CONC CURB (R&R)
CONC CURB TYPE S (6")
SIGN (R)
EXIST. RAMP (R)
CONC CURB TYPE S (6")
EXIST. CONC CURB (R&R)
℄ RTE. 231

RTE 231 / S BROADWAY ST

EXIST. CONC CURB (UIP)
EXIST. R/W
EXIST. FENCE (DND)
EXIST. 10' PERM. ESMT. TO ST. LOUIS COUNTY WATER CO.

27G510080
9214 S BROADWAY ST
N/F
METROPOLITAN ST. LOUIS SEWER DISTRICT
DB 6305 PG 1288
NO ACQUISITION

METROPOLITAN ST. LOUIS SEWER DISTRICT LEMAY PLANT

GENERAL NOTES:
1. SEE NOTES ON PLAN SHEET 1 OF 31.
2. ALL POWER POLES TO BE REMOVED AND RELOCATED BY OTHERS AS INDICATED (AMERENMO)
3. ALL EXISTING FIBER OPTIC IN THE CORRIDOR IS OWNED AND OPERATED BY OTHER ENTITIES.

PLAN SHEETS
SHEET 27 OF 31

LAYOUT	NS	01/2025
DRAWN	SMC	01/2025
REVIEWED	DJK	01/2025

STATE OF MISSOURI
DENNIS J KOSCIELSKI
NUMBER PE-2005000712
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED
7/15/2025

ROUTE	STATE
231	MO
DISTRICT	SHEET NO.
SL	30

COUNTY
ST. LOUIS

JOB NO.
J6S3631

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION	DATE

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
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SCALE
0 20 40 60

(62) 27G420462
9305 S BROADWAY ST
N/F
CARONDELET TOWNSHIP MEMORIAL POST BLDG ASSN
DB 1994 PG 3
(SEE R/W PLANS FOR TAKING AREAS & REMAINDER AREAS)

AMERICAN LEGION POST 162

(61) 27G420853
9311 S BROADWAY ST
N/F
SPIRIT ENERGY, LLC
DB 14390 PG 1471
(SEE R/W PLANS FOR TAKING AREAS & REMAINDER AREAS)

CIRCLE K

27G421298
9221 S BROADWAY ST
N/F
THOMAS J. JUDD & CHRISTINE M. JUDD, TRUSTEES
DB 20809 PG 391
NO ACQUISITION

27G530011
9211 S BROADWAY ST
N/F
BAHR PROPERTIES LLC
DB 23422 PG 229
NO ACQUISITION

27G420473
9217 S BROADWAY ST
N/F
HEINTZMANN, WILLIAM E. & CHRISTINE M., H/W
DB 10640 PG 466
NO ACQUISITION

THE AUTO PLACE

27G530853
9215 S BROADWAY ST
N/F
TAYLOR, CHARLES L.
DB 24848 PG 2652
NO ACQUISITION

27G530022
9207 S BROADWAY ST
N/F
WILKINS, MARK & LINDA
DB 21450 PG 566
NO ACQUISITION

(63) 27G530033
9201 S BROADWAY ST
N/F
RIPPER, JOSEPH & FIELDER, PAMELA
DEED DOCUMENT 2024092500121
(SEE R/W PLANS FOR TAKING AREAS & REMAINDER AREAS)

WEISS AVE — **HORN AVE** — **55**

RTE. 231 / S BROADWAY ST

MATCHLINE STA. 150+25.00

MATCHLINE STA. 155+20.00

EXIST. BUILDING (DND) · EXIST. BUSINESS SIGN AND PLANTER (DND) · CONC PVMT (DND) · DWY 178 FULL DEPTH SAW CUT (R) · EXIST. RET WALL (DND) · PERM. ESMT. · S.L. · PERM. UTILITY ESMT. · DWY 177 FULL DEPTH SAW CUT (R) · EXIST. SW (R&R) · EXIST. METRO BUS STOP AND SIGN (R&RELOC) · EXIST. R/W · SIGN (R) · METAL POST · T.C.E. · 10'R · 30 · 6' SW · CONC CURB TYPE S (6") · EXIST. CONC CURB (R&R) · EXIST. CONC DWY (DND) · 6' XWALK (ATG) · ADA RAMP · EXIST. RAMP (R) · POWER POLE (R&RELOC) · SIGN (R&R) · 20'R · WATER VALVE (DND) · GUY LINE (DND) · EXIST. SW (R&R) · EXIST. R/W · FIRE HYDRANT (DND) · POWER POLE (DND) · EXIST. BUILDING (DND) · DWY 179 FULL DEPTH SAW CUT (R) · EXIST. STAIRS (DND) · EXIST. BUSINESS SIGN (DND) · EXIST. CONC DWY (DND) · EXIST. RET WALL (DND) · EXIST. STAIRS (DND) · EXIST. BUILDING (DND) · EXIST. FENCE (DND) · POWER POLE (R&RELOC) · SIGN (UIP) · VENT (DND) · EXIST. R/W · EXIST. STEP (DND) · PERM. ESMT. · GAS VALVE (ATG) · CONC CURB TYPE S (6") · POWER POLE (DND) · EXIST. CONC CURB (R&R) · WATER METER (ATG) · EXIST. SW (R&R) · WATER VALVE (ATG) · WATER METER (ATG) · WATER METER (ATG) · ℄ RTE. 231

EXIST. CONC CURB (UIP) · EXIST. R/W · EXIST. FENCE (DND) · EXIST. METRO BUS STOP, SIGN, AND BENCH (R) · EXIST. 10' PERM. ESMT. TO ST. LOUIS COUNTY WATER CO. · POWER POLE (DND) · SIGN (R&R) · EXIST. CONC CURB (UIP) · EXIST. R/W · EXIST. FENCE (DND) · EXIST. 10' PERM. ESMT. TO ST. LOUIS COUNTY WATER CO. · POWER POLE (DND)

245

27G510080
9214 S BROADWAY ST
N/F
METROPOLITAN ST. LOUIS SEWER DISTRICT
DB 6305 PG 1288
NO ACQUISITION

METROPOLITAN ST. LOUIS SEWER DISTRICT LEMAY PLANT

GENERAL NOTES:
1. SEE NOTES ON PLAN SHEET 1 OF 31.
2. ALL POWER POLES TO BE REMOVED AND RELOCATED BY OTHERS AS INDICATED (AMERENMO)
3. ALL EXISTING FIBER OPTIC IN THE CORRIDOR IS OWNED AND OPERATED BY OTHER ENTITIES.

PLAN SHEETS
SHEET 28 OF 31

LAYOUT	NS	01/2025
DRAWN	SMC	01/2025
REVIEWED	DJK	01/2025

STATE OF MISSOURI · DENNIS J. KOSCIELSKI · NUMBER PE-2005000712 · PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED: 7/15/2025

ROUTE	STATE
231	MO
DISTRICT	SHEET NO.
SL	31

COUNTY: ST. LOUIS
JOB NO.: J6S3631
CONTRACT ID.:
PROJECT NO.:
BRIDGE NO.:

DESCRIPTION	DATE

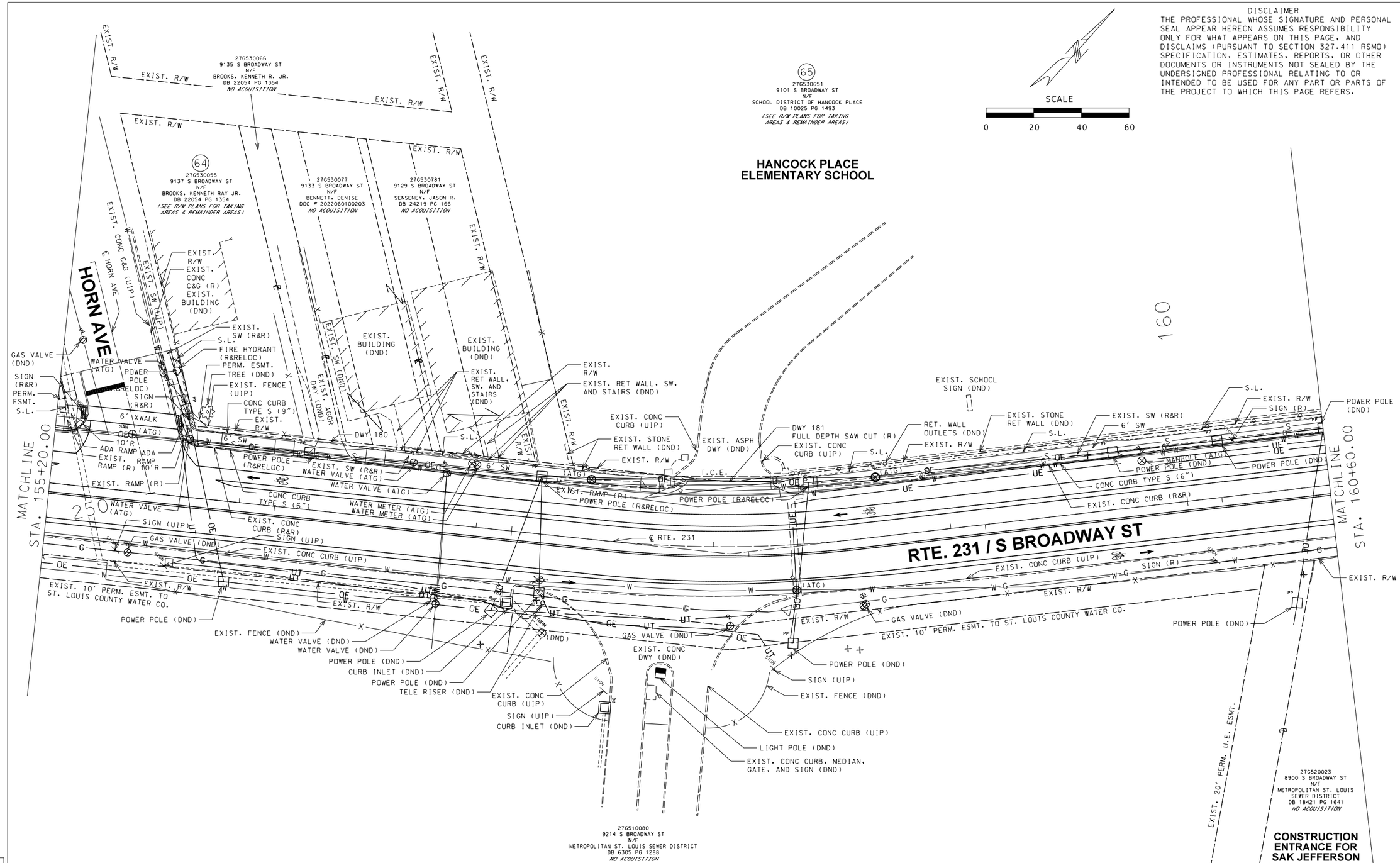
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METROPOLITAN ST. LOUIS SEWER DISTRICT LEMAY PLANT

GENERAL NOTES:
1. SEE NOTES ON PLAN SHEET 1 OF 31.
2. ALL POWER POLES TO BE REMOVED AND RELOCATED BY OTHERS AS INDICATED (AMERENMO)
3. ALL EXISTING FIBER OPTIC IN THE CORRIDOR IS OWNED AND OPERATED BY OTHER ENTITIES.

LAYOUT	NS	01/2025
DRAWN	SMC	01/2025
REVIEWED	DJK	01/2025

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STATE OF MISSOURI
DENNIS J KOSCIELSKI
NUMBER PE-2005000712
PROFESSIONAL ENGINEER

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DATE PREPARED
7/15/2025

ROUTE	STATE
231	MO
DISTRICT	SHEET NO.
SL	32

COUNTY
ST. LOUIS

JOB NO.
J6S3631

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION	DATE

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

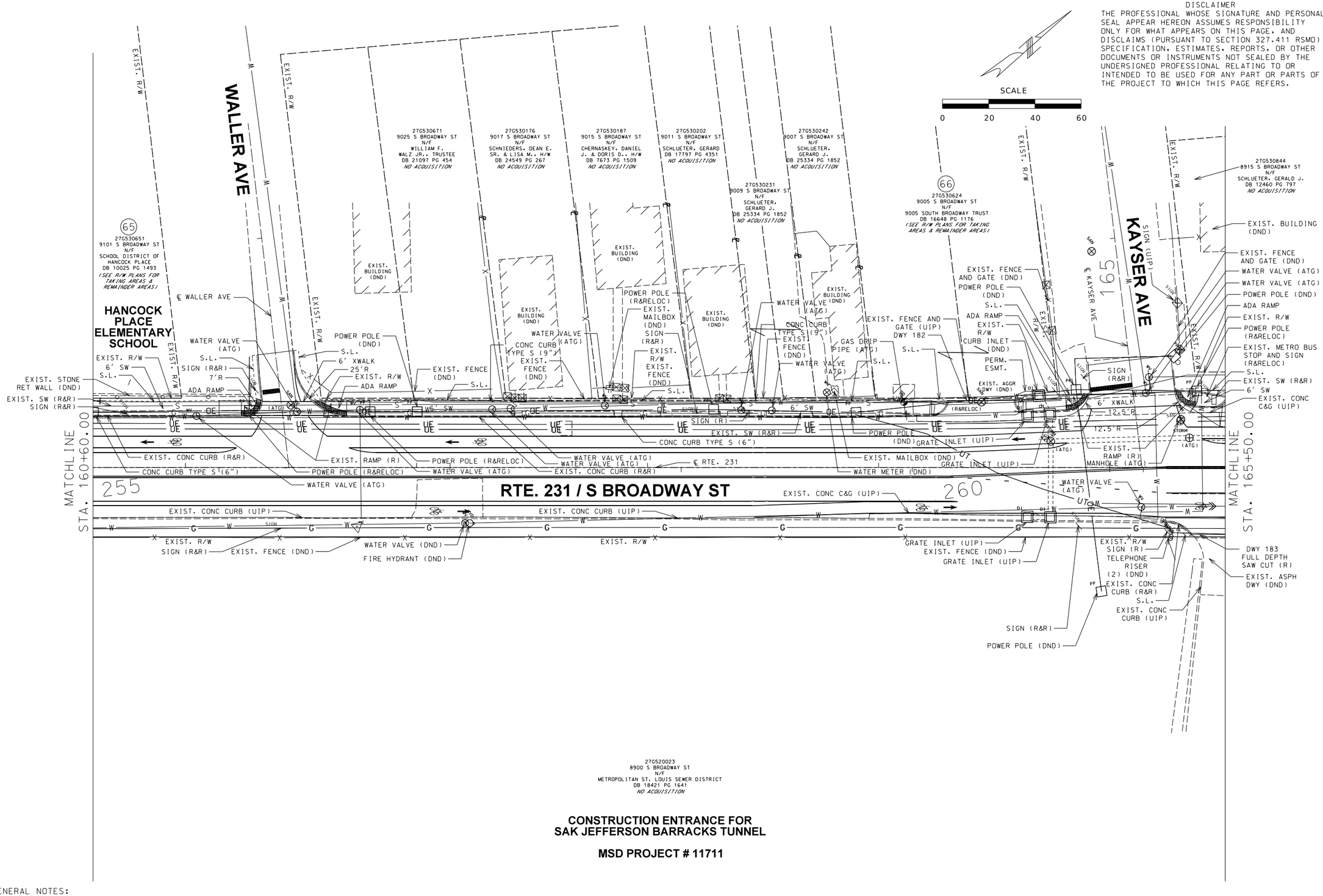
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PLAN SHEETS
SHEET 29 OF 31

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CONSTRUCTION ENTRANCE FOR SAK JEFFERSON BARRACKS TUNNEL

MSD PROJECT # 11711

GENERAL NOTES:
1. SEE NOTES ON PLAN SHEET 1 OF 31.
2. ALL POWER POLES TO BE REMOVED AND RELOCATED BY OTHERS AS INDICATED (AMERENMO)
3. ALL EXISTING FIBER OPTIC IN THE CORRIDOR IS OWNED AND OPERATED BY OTHER ENTITIES.

PLAN SHEETS
SHEET 30 OF 31

LAYOUT	NS	01/2025
DRAWN	SMC	01/2025
REVIEWED	DJK	01/2025

STATE OF MISSOURI
DENNIS J KOSCIELSKI
NUMBER PE-2005000712
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED
7/15/2025

ROUTE	STATE
231	MO
DISTRICT	SHEET NO.
SL	33

COUNTY
ST. LOUIS

JOB NO.
J6S3631

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION	DATE

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

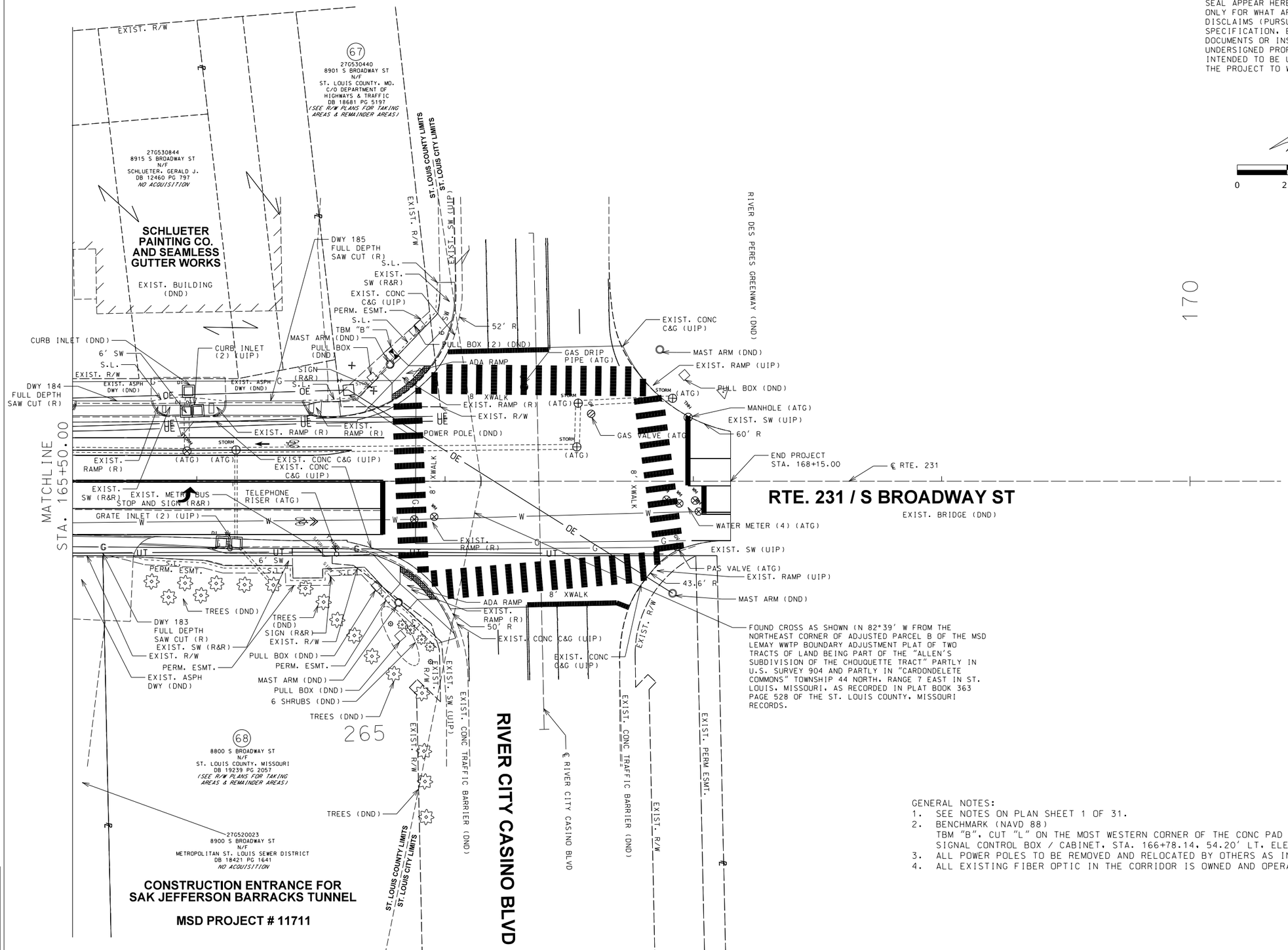
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

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SCALE
0 20 40 60

GENERAL NOTES:
1. SEE NOTES ON PLAN SHEET 1 OF 31.
2. BENCHMARK (NAVD 88)
   TBM "B", CUT "L" ON THE MOST WESTERN CORNER OF THE CONC PAD TO THE SIGNAL CONTROL BOX / CABINET, STA. 166+78.14, 54.20' LT, ELEV. 421.570.
3. ALL POWER POLES TO BE REMOVED AND RELOCATED BY OTHERS AS INDICATED (AMERENMO)
4. ALL EXISTING FIBER OPTIC IN THE CORRIDOR IS OWNED AND OPERATED BY OTHER ENTITIES.

PLAN SHEETS
SHEET 31 OF 31

LAYOUT	NS	01/2025
DRAWN	SMC	01/2025
REVIEWED	DJK	01/2025

STATE OF MISSOURI
DENNIS J KOSCIELSKI
NUMBER PE-2005000712
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED	
7/15/2025	
ROUTE	STATE
231	MO
DISTRICT	SHEET NO.
SL	34
COUNTY	
ST. LOUIS	
JOB NO.	
J6S3631	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

DESCRIPTION	DATE

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JEFFERSON CITY, MO 65102
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PAVEMENT LEGEND

- PROPOSED SIDEWALK
- COLDMILLING BITUMINOUS PAVEMENT
- FULL DEPTH PAVEMENT, REMOVE AND REPLACE
- DRIVEWAY, REMOVE AND REPLACE
- ADA RAMP

PARCEL 1 - PERMANENT EASEMENT		
PT-PT	STATION AND OFFSET	LENGTH AND BEARING
(L)(O)	39+66.98 53.57' RT TO 39+67.81 66.38' RT	12.84' N 69°37'32" W
(O)(R)	39+67.81 66.38' RT TO 39+58.58 66.98' RT	9.25' N 20°22'28" E
(R)(S)	39+58.58 66.98' RT TO 39+58.79 65.96' RT	1.04' S 54°14'57" E
(S)(P)	39+58.79 65.96' RT TO 39+66.98 53.57' RT	R= 20.00', T= 8.00' L= 15.22', D= 286°28'44"

(1)
29H510630
2909 TELEGRAPH RD
N/F
EBB PROPERTIES, LLC
DB 22908 PG 542
EXISTING = 1.040 ACRES
PERM. ESMT. = 0.002 ACRES (77 SF)
REMAINDER = 1.040 ACRES

(2)
29H510894
515 FRANRU LN
N/F
SYLVAN SPRINGS ASSOCIATES, LP
DB 23928 PG 3080
EXISTING = 2.790 ACRES
NEW R/W = 0.001 ACRES (43 SF)
PERM. ESMT. = 0.007 ACRES (311 SF)
REMAINDER = 2.789 ACRES

29H510872
2923 TELEGRAPH RD
N/F
HOPE VINEYARD CHURCH
DB 20275 PG 1656
NO ACQUISITION

HOPE VINEYARD CHURCH

TELEGRAPH ROAD PHYSICAL THERAPY

SYLVAN SPRINGS SENIOR APARTMENTS

FRANRU LN

RTE. 231 / TELEGRAPH RD

COMMERCIAL ENTRANCE 1
STA. +17.31
TYPE 1 DRIVEWAY
CONC. PAVED APPROACH
27.4' WIDTH (EXIST. WIDTH 27.4')
13' LENGTH R.T.

EXIST. DRWY (DND)
COMMERCIAL
35' WIDE
(ASPHALT)
MAX EXIST. SLOPE = -6.71%
STA. 42+32.94

EXIST. DRWY (DND)
COMMERCIAL
35' WIDE
(ASPHALT)
MAX EXIST. SLOPE = -3.42%
STA. 42+11.74

BEGIN PROJECT
℄ R/W RTE. 231 STA. 41+90.38 =
℄ RTE. 231 STA. 13+72.50

MATCH LINE
STA. 37+87.87

U.S. SURVEY NO. 3340

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SCALE
0 20 40 60

EXIST. BMP RESERVE AREA TO ST. LOUIS MSD (DND)

EXIST. PARKING (DND)

29H230442
2878 TELEGRAPH RD
N/F
LJC COMMERCIAL LLC
DB 23714 PG 80
NO ACQUISITION

SENTINEL EMERGENCY SOLUTIONS

29H510805
2866 TELEGRAPH RD
N/F
LORCOR LLC
DB 17566 PG 3781
NO ACQUISITION

GALAXY VAPORS
SUBWAY
SALON JB
ROSE NAIL & SPA
CAPTAIN Z'S

DRWY 2
COMMERCIAL
30' WIDE
(PAVED APPROACH)
STA. 40+27.88

DRWY 3
COMMERCIAL
14' WIDE
(PAVED APPROACH)
STA. 39+54.98

DRWY 3A
PRIVATE
11' WIDE
(PAVED APPROACH)
STA. 38+82.11

DRWY 4
PRIVATE
10' WIDE
(PAVED APPROACH)
STA. 38+30.45

29H510814
2858 TELEGRAPH RD
N/F
2858 TELEGRAPH LLC
DB 19789 PG 2706
NO ACQUISITION

29H510784
2856 TELEGRAPH RD
N/F
LESSER, JAMES & SIMPSON, TABITHA A.
DB 17311 PG 3552
NO ACQUISITION

29H510696
2854 TELEGRAPH RD
N/F
PROSSER, CHARLES A. & CYNTHIA D., H/W
DB 23912 PG 1366
NO ACQUISITION

PARCEL 2 - PERMANENT EASEMENT		
PT-PT	STATION AND OFFSET	LENGTH AND BEARING
(A)(B)	39+07.26 68.30' RT TO 38+96.63 55.00' RT	17.02' N 75°28'19" E
(B)(C)	38+96.63 55.00' RT TO 38+87.95 44.15' RT	13.90' N 75°28'19" E
(C)(D)	38+87.45 44.15' RT TO 38+63.29 40.00' RT	25.00' N 33°38'58" E
(D)(E)	38+63.29 40.00' RT TO 38+88.55 40.00' RT	25.26' S 24°06'29" W
(E)(F)	38+88.55 40.00' RT TO 39+08.13 64.04' RT	R= 20.00', T= 24.54' L= 35.48', D= 286°28'44"
(F)(A)	39+08.13 64.04' RT TO 39+07.26 68.30' RT	4.35' N 54°14'57" W

GENERAL NOTES:
1. ANY WORK INDICATED ON THE PLANS THAT EXTENDS BEYOND THE PROJECT LIMITS IS CONSIDERED INCIDENTAL TO AND A PART OF THE CONSTRUCTION OF THIS PROJECT (NO DIRECT PAY).
2. THE APPROXIMATE LOCATION OF PROPERTY LINES AS SHOWN ON THE PLANS ARE BASED ON THE BEST INFORMATION AVAILABLE TO THE COMMISSION AT THIS TIME. THIS INFORMATION IS PROVIDED BY THE COMMISSION "AS-IS" AND THE COMMISSION EXPRESSLY DISCLAIMS ANY REPRESENTATION OR WARRANTY AS TO THE COMPLETENESS, ACCURACY, OR SUITABILITY OF THE INFORMATION FOR ANY USE.
3. THE EXISTENCE AND APPROXIMATE LOCATION OF UTILITY FACILITIES KNOWN TO BE EXISTING, AS SHOWN ON THE PLANS, ARE BASED ON THE BEST INFORMATION AVAILABLE TO THE COMMISSION AT THIS TIME. THIS INFORMATION IS PROVIDED BY THE COMMISSION "AS-IS" AND THE COMMISSION EXPRESSLY DISCLAIMS ANY REPRESENTATION OR WARRANTY AS TO THE COMPLETENESS, ACCURACY, OR SUITABILITY OF THE INFORMATION FOR ANY USE. RELIANCE UPON THIS INFORMATION IS DONE AT THE RISK AND PERIL OF THE USER, AND THE COMMISSION SHALL NOT BE LIABLE FOR ANY DAMAGES THAT MAY ARISE FROM ANY ERROR IN THE INFORMATION. SEE THE JOB SPECIAL PROVISIONS FOR A LIST OF UTILITY COMPANIES ON OR WITHIN THE VICINITY OF THE PROJECT LIMITS.
4. ALL BEARINGS BASED ON MISSOURI COORDINATE SYSTEM OF 1983, EAST ZONE.

LAYOUT	NS	01/2025
DRAWN	SMC	01/2025
REVIEWED	DJK	01/2025

ROW PLAN SHEETS
SHEET 1 OF 31

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STATE OF MISSOURI
DENNIS J KOSCIELSKI
NUMBER PE-2005000712
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED: 7/15/2025
ROUTE: 231 | STATE: MO
DISTRICT: SL | SHEET NO.: 35
COUNTY: ST. LOUIS
JOB NO.: J6S3631
CONTRACT ID.:
PROJECT NO.:
BRIDGE NO.:

DATE	DESCRIPTION

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

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PARCEL 3 - NEW R/W		
PT-PT	STATION AND OFFSET	LENGTH AND BEARING
(K)(J)	35+37.14 40.00' RT TO 35+36.67 45.00' RT	5.02' N 60°31'26" W
(J)(M)	35+36.67 45.00' RT TO 35+20.29 45.00' RT	16.38' N 24°06'29" E
(M)(N)	35+20.29 45.00' RT TO 35+20.29 40.00' RT	5.00' S 65°53'31" E
(N)(K)	35+20.29 40.00' RT TO 35+37.14 40.00' RT	16.85' S 24°06'29" W

PARCEL 3 - T.C.E.		
PT-PT	STATION AND OFFSET	LENGTH AND BEARING
(N)(M)	35+20.29 40.00' RT TO 35+20.29 45.00' RT	5.00' N 65°53'31" W
(M)(O)	35+20.29 45.00' RT TO 35+20.29 58.78' RT	13.78' N 65°53'31" W
(O)(P)	35+20.29 58.78' RT TO 34+84.10 77.51' RT	41.67' N 02°19'03" W
(P)(Q)	34+84.10 77.51' RT TO 34+78.26 65.71' RT	13.17' N 88°35'58" E
(Q)(R)	34+78.26 65.71' RT TO 34+75.70 40.00' RT	25.84' S 70°44'11" E
(R)(S)	34+75.70 40.00' RT TO 34+96.00 40.00' RT	20.63' S 24°56'32" W
(S)(N)	34+96.00 40.00' RT TO 35+20.29 40.00' RT	24.54' S 24°06'29" W

PARCEL 4 - NEW R/W		
PT-PT	STATION AND OFFSET	LENGTH AND BEARING
(T)(U)	35+61.77 40.00' LT TO 35+32.24 40.00' LT	29.52' N 24°06'29" E
(U)(V)	35+32.24 40.00' LT TO 35+32.32 45.00' LT	5.00' S 65°03'28" E
(V)(W)	35+32.32 45.00' LT TO 35+61.77 45.00' LT	29.45' S 24°06'29" W
(W)(T)	35+61.77 45.00' LT TO 35+61.77 40.00' LT	5.00' N 65°53'31" W

PARCEL 5 - NEW R/W		
PT-PT	STATION AND OFFSET	LENGTH AND BEARING
(U)(X)	35+32.24 40.00' LT TO 35+19.58 40.00' LT	12.66' N 24°06'29" E
(X)(Y)	35+19.58 40.00' LT TO 35+19.58 45.00' LT	5.00' S 65°53'31" E
(Y)(V)	35+19.58 45.00' LT TO 35+32.32 45.00' LT	12.74' S 24°06'29" W
(V)(U)	35+32.32 45.00' RT TO 35+32.24 40.00' LT	5.00' N 65°03'28" W

PARCEL 6 - T.C.E.		
PT-PT	STATION AND OFFSET	LENGTH AND BEARING
(Z)(AA)	33+64.58 40.00' LT TO 33+22.02 40.00' LT	42.56' N 24°56'32" E
(AA)(AB)	33+22.02 40.00' LT TO 33+22.02 53.41' LT	13.41' S 65°03'28" E
(AB)(AC)	33+22.02 53.41' LT TO 33+27.07 53.40' LT	5.05' S 24°57'27" W
(AC)(AD)	33+27.07 53.40' LT TO 33+37.37 64.99' LT	15.50' S 23°24'52" E
(AD)(AE)	33+37.37 64.99' LT TO 33+46.71 64.99' LT	9.34' S 24°57'27" W
(AE)(AF)	33+46.71 64.99' LT TO 33+64.58 55.95' LT	20.03' S 51°45'25" W
(AF)(Z)	33+64.58 55.95' LT TO 33+64.58 40.00' LT	15.95' N 65°02'34" W

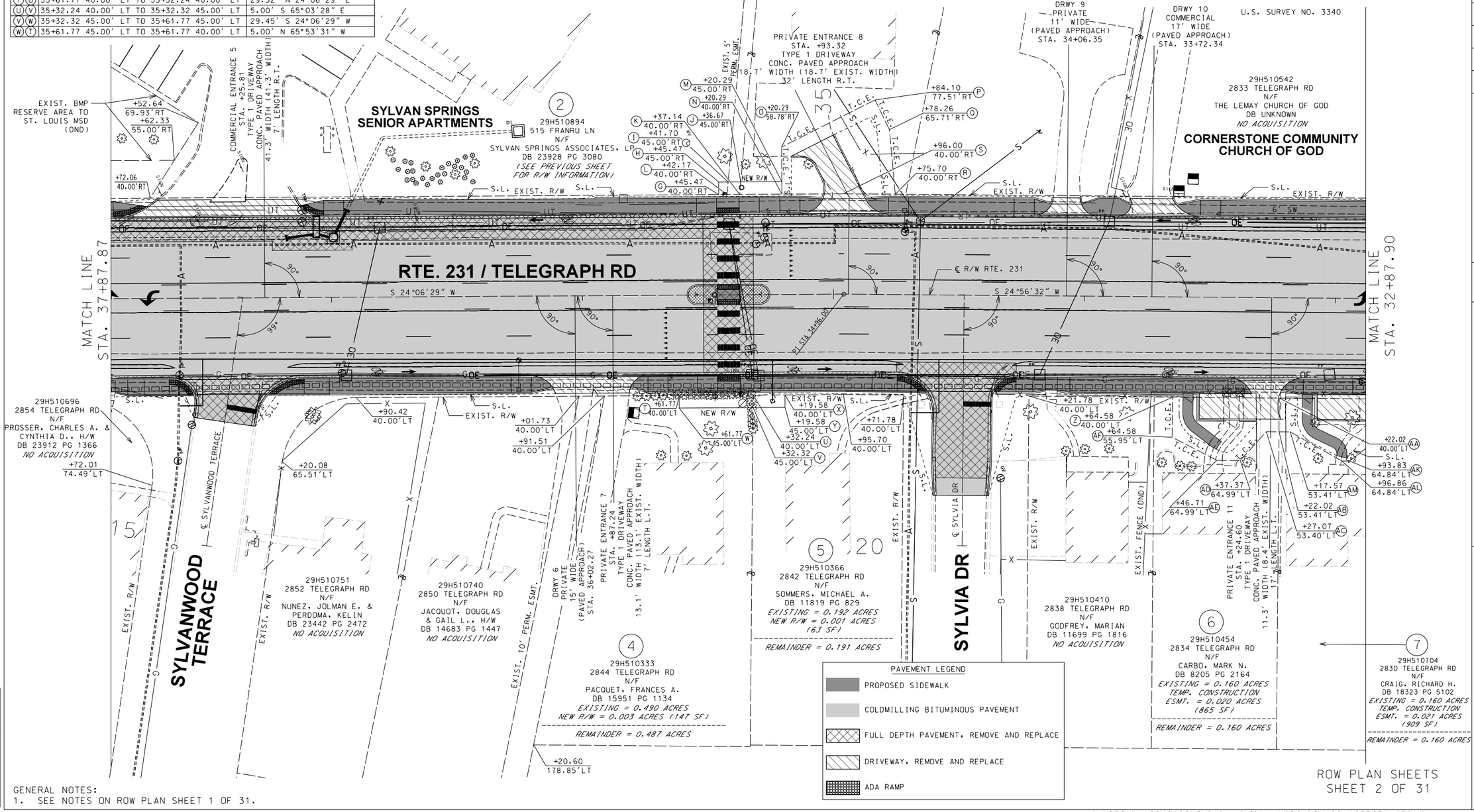
PARCEL 2 - NEW R/W		
PT-PT	STATION AND OFFSET	LENGTH AND BEARING
(G)(H)	35+45.47 40.00' RT TO 35+45.47 45.00' RT	5.00' N 65°53'31" W
(H)(I)	35+45.47 45.00' RT TO 35+41.70 45.00' RT	3.77' N 24°06'29" E
(I)(J)	35+41.70 45.00' RT TO 35+36.67 45.00' RT	5.02' N 24°06'29" E
(J)(K)	35+36.67 45.00' RT TO 35+37.14 40.00' RT	5.02' S 60°31'26" E
(K)(L)	35+37.14 40.00' RT TO 35+42.17 40.00' RT	5.02' S 24°06'29" W
(L)(G)	35+42.17 40.00' RT TO 35+45.47 40.00' RT	3.30' S 24°06'29" W

SCALE

0 20 40 60

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GENERAL NOTES:

1. SEE NOTES ON ROW PLAN SHEET 1 OF 31.

LAYOUT	NS	01/2025
DRAWN	SMC	01/2025
REVIEWED	DJK	01/2025

ROW PLAN SHEETS
SHEET 2 OF 31

STATE OF MISSOURI
DENNIS J. KOSCIELSKI
NUMBER PE-2005000712
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED	
7/15/2025	
ROUTE	STATE
231	MO
DISTRICT	SHEET NO.
SL	36

COUNTY
ST. LOUIS

JOB NO.
J6S3631

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DATE	DESCRIPTION

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL
JEFFERSON CITY, MO 65102
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PARCEL 7 - T.C.E.		
PT-PT	STATION AND OFFSET	LENGTH AND BEARING
AA-AG	33+22.02 40.00' LT TO 32+72.16 40.00' LT	49.86' N 24°56'32" E
AG-AH	32+72.16 40.00' LT TO 32+72.16 55.11' LT	15.11' S 65°03'28" E
AH-AI	32+72.16 55.11' LT TO 32+77.35 53.42' LT	5.47' S 43°00'44" W
AI-AJ	32+77.35 53.42' LT TO 32+79.38 53.42' LT	2.03' S 24°57'27" W
AJ-AK	32+79.38 53.42' LT TO 32+93.83 64.84' LT	18.42' S 13°22'24" E
AK-AL	32+93.83 64.84' LT TO 32+96.86 64.84' LT	3.03' S 24°57'27" W
AL-AM	32+96.86 64.84' LT TO 33+17.57 53.41' LT	23.66' S 53°50'14" W
AM-AB	33+17.57 53.41' LT TO 33+22.02 53.41' LT	4.45' S 24°57'27" W
AB-AA	33+22.02 53.41' LT TO 33+22.02 40.00' LT	13.41' N 65°03'28" W

PARCEL 9 - T.C.E.		
PT-PT	STATION AND OFFSET	LENGTH AND BEARING
AQ-AN	32+72.16 40.00' LT TO 32+22.30 40.00' LT	49.86' N 24°56'32" E
AN-AO	32+22.30 40.00' LT TO 32+22.30 53.43' LT	13.43' S 65°03'28" E
AO-AP	32+22.30 53.43' LT TO 32+29.31 53.43' LT	7.02' S 24°57'27" W
AP-AQ	32+29.31 53.43' LT TO 32+42.64 63.92' LT	16.96' S 13°15'58" E
AQ-AR	32+42.64 63.92' LT TO 32+45.17 63.92' LT	2.53' S 24°57'27" W
AR-AH	32+45.17 63.92' LT TO 32+72.16 55.11' LT	28.39' S 43°00'44" W
AH-AG	32+72.16 55.11' LT TO 32+72.16 40.00' LT	15.11' N 65°03'28" W

PARCEL 10 - T.C.E.		
PT-PT	STATION AND OFFSET	LENGTH AND BEARING
AN-AS	32+22.30 40.00' LT TO 31+72.44 40.00' LT	49.86' N 24°56'32" E
AS-AT	31+72.44 40.00' LT TO 31+72.44 55.45' LT	15.45' S 65°03'28" E
AT-AU	31+72.44 55.45' LT TO 31+83.34 55.44' LT	10.90' S 24°57'26" W
AU-AV	31+83.34 55.44' LT TO 31+94.49 61.69' LT	12.78' S 04°18'21" E
AV-AW	31+94.49 61.69' LT TO 31+98.80 61.68' LT	4.31' S 25°03'11" W
AW-AX	31+98.80 61.68' LT TO 32+13.88 53.43' LT	17.19' S 53°35'53" W
AX-AO	32+13.88 53.43' LT TO 32+22.30 53.43' LT	8.41' S 24°57'27" W
AO-AN	32+22.30 53.43' LT TO 32+22.30 40.00' LT	13.43' N 65°03'28" W

PARCEL 11 - T.C.E.		
PT-PT	STATION AND OFFSET	LENGTH AND BEARING
AS-AY	31+72.44 40.00' LT TO 31+22.58 40.00' LT	49.86' N 24°56'32" E
AY-AZ	31+22.58 40.00' LT TO 31+22.58 55.46' LT	15.46' S 65°03'28" E
AZ-AT	31+22.58 55.46' LT TO 31+72.44 55.45' LT	49.86' S 24°57'27" W
AT-AS	31+72.44 55.45' LT TO 31+72.44 40.00' LT	15.45' N 65°03'28" W

PARCEL 12 - T.C.E.		
PT-PT	STATION AND OFFSET	LENGTH AND BEARING
AY-BA	31+22.58 40.00' LT TO 30+72.72 40.00' LT	49.86' N 24°56'32" E
BA-BB	30+72.72 40.00' LT TO 30+72.72 55.47' LT	15.47' S 65°03'28" E
BB-AZ	30+72.72 55.47' LT TO 31+22.58 55.46' LT	49.86' S 24°57'27" W
AZ-AY	31+22.58 55.46' LT TO 31+22.58 40.00' LT	15.46' N 65°03'28" W

PARCEL 13 - T.C.E.		
PT-PT	STATION AND OFFSET	LENGTH AND BEARING
BA-BC	30+72.72 40.00' LT TO 30+56.19 40.00' LT	16.52' N 24°56'32" E
BC-BD	30+56.19 40.00' LT TO 30+56.20 55.48' LT	15.48' S 65°02'34" E
BD-BB	30+56.20 55.48' LT TO 30+72.72 55.47' LT	16.52' S 24°57'27" W
BB-BA	30+72.72 55.47' LT TO 30+72.72 40.00' LT	15.47' N 65°03'28" W

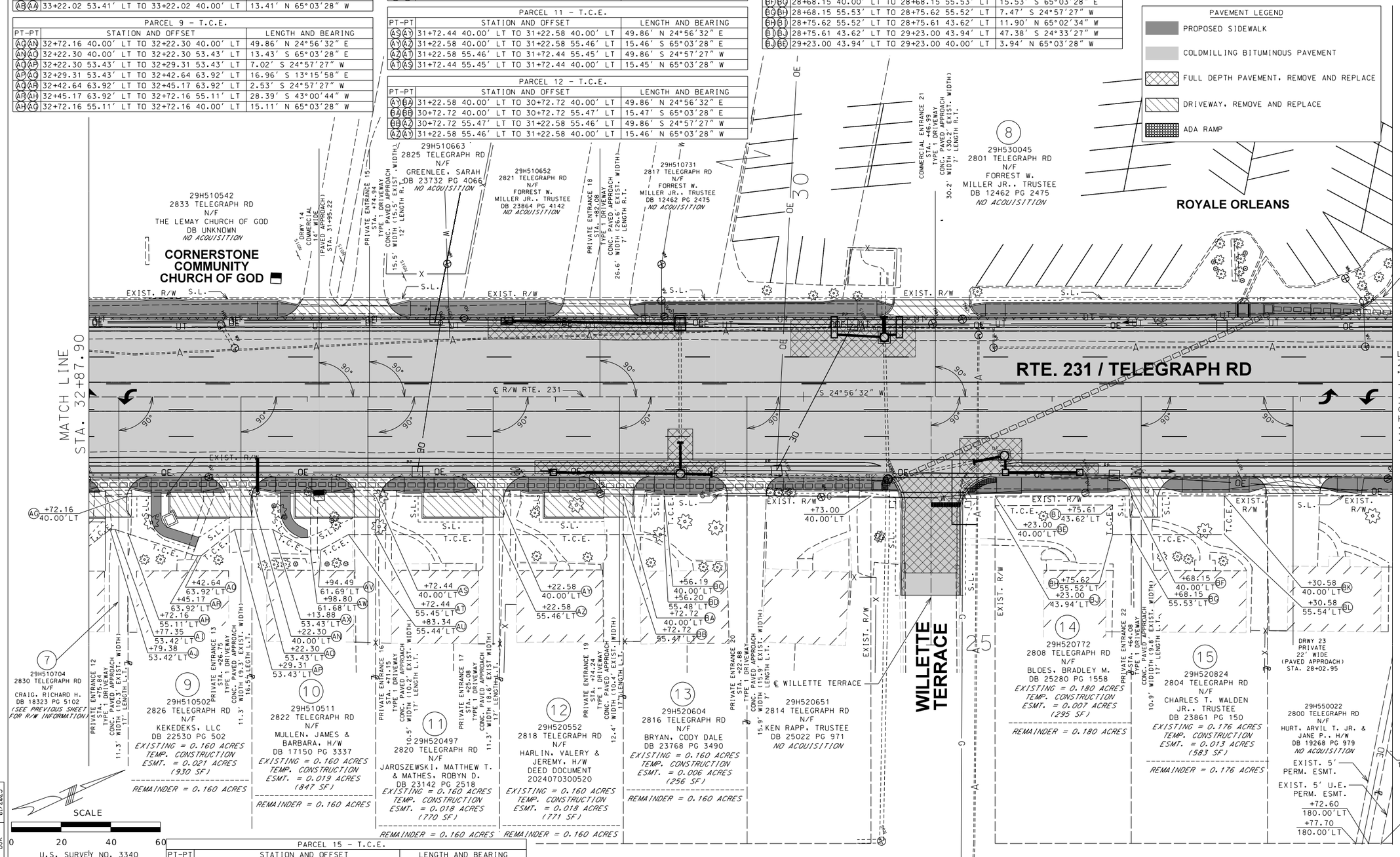
PARCEL 14 - T.C.E.		
PT-PT	STATION AND OFFSET	LENGTH AND BEARING
BD-BF	29+23.00 40.00' LT TO 28+68.15 40.00' LT	54.85' N 24°56'32" E
BF-BG	28+68.15 40.00' LT TO 28+68.15 55.53' LT	15.53' S 65°03'28" E
BG-BH	28+68.15 55.53' LT TO 28+75.62 55.52' LT	7.47' S 24°57'27" W
BH-BI	28+75.62 55.52' LT TO 28+75.61 43.62' LT	11.90' N 65°02'34" W
BI-BJ	28+75.61 43.62' LT TO 29+23.00 43.94' LT	47.38' S 24°33'27" W
BJ-BE	29+23.00 43.94' LT TO 29+23.00 40.00' LT	3.94' N 65°03'28" W

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PAVEMENT LEGEND

- PROPOSED SIDEWALK
- COLDMILLING BITUMINOUS PAVEMENT
- FULL DEPTH PAVEMENT, REMOVE AND REPLACE
- DRIVEWAY, REMOVE AND REPLACE
- ADA RAMP



PARCEL 15 - T.C.E.		
PT-PT	STATION AND OFFSET	LENGTH AND BEARING
BF-BK	28+68.15 40.00' LT TO 28+30.58 40.00' LT	37.57' N 24°56'32" E
BK-BL	28+30.58 40.00' LT TO 28+30.58 55.54' LT	15.54' S 65°02'34" E
BL-BG	28+30.58 55.54' LT TO 28+68.15 55.53' LT	37.57' S 24°57'27" W
BG-BF	28+68.15 55.53' LT TO 28+68.15 40.00' LT	15.53' N 65°03'28" W

SCALE
0 20 40 60

U.S. SURVEY NO. 3340

GENERAL NOTES:
1. SEE NOTES ON ROW PLAN SHEET 1 OF 31.

LAYOUT	NS	01/2025
DRAWN	SMC	01/2025
REVIEWED	DJK	01/2025

ROW PLAN SHEETS
SHEET 3 OF 31

STATE OF MISSOURI
DENNIS J. KOSCIELSKI
NUMBER PE-2005000712
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED
7/15/2025

ROUTE	STATE
231	MO
DISTRICT	SHEET NO.
SL	37

COUNTY
ST. LOUIS

JOB NO.
J6S3631

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION	DATE

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

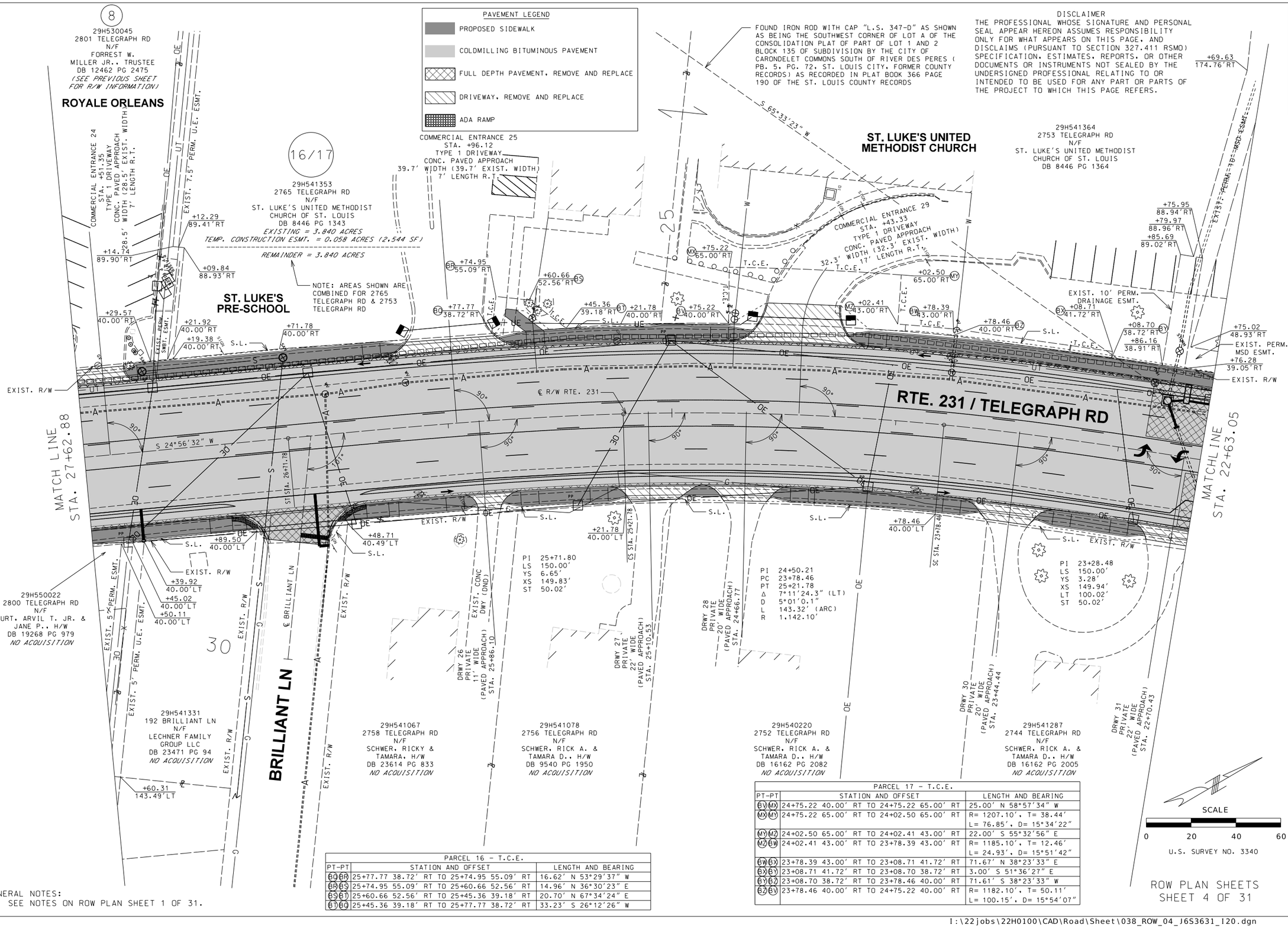
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105 WEST CAPITOL
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PARCEL 16 - T.C.E.		
PT-PT	STATION AND OFFSET	LENGTH AND BEARING
(BQ)(BR)	25+77.77 38.72' RT TO 25+74.95 55.09' RT	16.62' N 53°29'37" W
(BR)(BS)	25+74.95 55.09' RT TO 25+60.66 52.56' RT	14.96' N 36°30'23" E
(BS)(BT)	25+60.66 52.56' RT TO 25+45.36 39.18' RT	20.70' N 67°34'24" E
(BT)(BQ)	25+45.36 39.18' RT TO 25+77.77 38.72' RT	33.23' S 26°12'26" W

PARCEL 17 - T.C.E.		
PT-PT	STATION AND OFFSET	LENGTH AND BEARING
(BV)(MX)	24+75.22 40.00' RT TO 24+75.22 65.00' RT	25.00' N 58°57'34" W
(MX)(MY)	24+75.22 65.00' RT TO 24+02.50 65.00' RT	R= 1207.10', T= 38.44' L= 76.85', D= 15°34'22"
(MY)(M2)	24+02.50 65.00' RT TO 24+02.41 43.00' RT	22.00' S 55°32'56" E
(M2)(BW)	24+02.41 43.00' RT TO 23+78.39 43.00' RT	R= 1185.10', T= 12.46' L= 24.93', D= 15°51'42"
(BW)(BX)	23+78.39 43.00' RT TO 23+08.71 41.72' RT	71.67' N 38°23'33" E
(BX)(BY)	23+08.71 41.72' RT TO 23+08.70 38.72' RT	3.00' S 51°36'27" E
(BY)(BZ)	23+08.70 38.72' RT TO 23+78.46 40.00' RT	71.61' S 38°23'33" W
(BZ)(BV)	23+78.46 40.00' RT TO 24+75.22 40.00' RT	R= 1182.10', T= 50.11' L= 100.15', D= 15°54'07"

GENERAL NOTES:
1. SEE NOTES ON ROW PLAN SHEET 1 OF 31.

LAYOUT	NS	01/2025
DRAWN	SMC	01/2025
REVIEWED	DJK	01/2025

STATE OF MISSOURI
DENNIS J. KOSCIELSKI
NUMBER PE-2005000712
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED 7/15/2025

ROUTE	STATE
231	MO
DISTRICT	SHEET NO.
SL	38

COUNTY ST. LOUIS
JOB NO. J6S3631
CONTRACT ID.
PROJECT NO.
BRIDGE NO.

DESCRIPTION	DATE

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MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

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Professional Engineer 00162
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ROW PLAN SHEETS
SHEET 4 OF 31

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16/17

29H541364
2753 TELEGRAPH RD
N/F
ST. LUKE'S UNITED METHODIST CHURCH OF ST. LOUIS
DB 8446 PG 1364
(SEE PREVIOUS SHEET FOR R/W INFORMATION)

ST. LUKE'S UNITED METHODIST CHURCH

SCALE
0 20 40 60

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U.S. SURVEY NO. 3340

29H540660
2731 TELEGRAPH RD
N/F
MESIC, HRUSTAN & MINA
DB 20512 PG 2515
NO ACQUISITION

29H540707
2727 TELEGRAPH RD
N/F
ALONZO, STEVEN & PAMELA
DB 24052 PG 2057
NO ACQUISITION

29H541265
2715 TELEGRAPH RD
N/F
SUNSET PROPERTY LLC
DB 23646 PG 2111
NO ACQUISITION

A&E CAR WASH

MESIC TILE & STONE

SHIELD TRANSPORTATION

DEWITT INSURANCE

VALVOLINE INSTANT OIL CHANGE

29H541254
2711 TELEGRAPH RD
N/F
VALVOLINE LLC
DB 22160 PG 388
NO ACQUISITION

PHILLIPS 66

29H541243
2701 TELEGRAPH RD
N/F
WESTERN OIL INC.
DOC # 2022062900028
NO ACQUISITION

EXIST. PERM. 10' MSD ESMT.
EXIST. 10' PERM. MSD ESMT.
EXIST. PERM. MSD ESMT.
EXIST. PERM. UTILITY AND CROSS ACCESS ESMT.
EXIST. 10' PERM. ESMT.
EXIST. 20' X 20' PERM. SWBT. ESMT.

DRWY 35 COMMERCIAL 54' WIDE (PAVED APPROACH) STA. 20+41.50
DRWY 36 COMMERCIAL 44' WIDE (PAVED APPROACH) STA. 19+96.03
DRWY 37 COMMERCIAL 28' WIDE (PAVED APPROACH) STA. 19+73.53
DRWY 39 COMMERCIAL 29' WIDE (PAVED APPROACH) STA. 19+32.70
DRWY 41 COMMERCIAL 43' WIDE (PAVED APPROACH) STA. 17+89.18

EXIST. BUILDING (DND)

EQUATION: TS STA. 22+28.80 BK = STA. 22+28.46 AHD

MATCHLINE STA. 22+63.05

MATCHLINE STA. 17+63.39

RTE. 231 / TELEGRAPH RD

S 39°39'26" W

℄ R/W RTE. 231

+59.96 174.41'RT
+79.43 60.00'RT
+69.41 60.00'RT
+78.71 48.83'RT
+89.45 60.00'RT
+88.73 48.83'RT
+28.80 40.00'RT
+88.16 40.00'RT
+68.12 40.00'RT
+56.01 60.00'RT
+55.37 50.00'RT
+60.38 50.00'RT
+59.82 40.00'RT
+35.08 124.85'RT
+42.69 134.32'RT
+99.81 158.87'RT
+93.34 148.75'RT
+06.12 173.52'RT
+63.91 180.11'RT
+04.42 162.65'RT
+16.95 149.55'RT
+92.40 137.77'RT
+09.91 135.52'RT
+17.58 123.34'RT
+30.96 60.00'RT
+30.32 50.00'RT
+17.58 60.00'RT
+17.58 50.00'RT
+09.91 60.00'RT
+09.91 50.00'RT
+88.38 60.00'RT
+86.81 50.00'RT
+63.91 60.00'RT
+63.91 50.00'RT
EXIST. R/W
S.L.
OE
UT
A
90°

(18) 29H540352
2738 TELEGRAPH RD
N/F
ROGG, NATALIE & ROGG, JOSEPH
DB 21852 PG 307
EXISTING = 0.674 ACRES
TEMP. CONSTRUCTION ESMT. = 0.003 ACRES (140 SF)
REMAINDER = 0.674 ACRES

29H541287
2744 TELEGRAPH RD
N/F
SCHWER, RICK A. & TAMARA D., H/W
DB 16162 PG 2005
NO ACQUISITION

29H540462
2736 TELEGRAPH RD
N/F
PAQUET, NORMAN B. JR.
DB 16788 PG 919
NO ACQUISITION

29H540431
2732 TELEGRAPH RD
N/F
PAQUET, NORMAN B. JR.
DB 17943 PG 1021
NO ACQUISITION

29H540514
2728 TELEGRAPH RD
N/F
MUSIELAK, DAMIAN M. & ELIZABETH T., H/W
DB 12315 PG 1114
NO ACQUISITION

PRIVATE ENTRANCE 32 STA. +99.28 TYPE 1 DRIVEWAY CONC. PAVED APPROACH WIDTH (11.8' EXIST. WIDTH) 7' LENGTH L.T.
DRWY 33 PRIVATE 60' WIDE (PAVED APPROACH) STA. 21+57.32
DRWY 34 COMMERCIAL 39' WIDE (PAVED APPROACH) STA. 20+47.89

COMMERCIAL DRIVEWAY 38
STA. +55.00
TYPE 1 DRIVEWAY
CONC. PAVED APPROACH
28.1' WIDTH (28.1' EXIST. WIDTH)
7' LENGTH L.T.

(19) 29H541155
2716 TELEGRAPH RD
N/F
RESALAT COMMUNITY CENTER
DOC # 2022041100364
EXISTING = 1.010 ACRES
TEMP. CONSTRUCTION ESMT. = 0.015 ACRES (643 SF)
REMAINDER = 1.010 ACRES

COMMERCIAL ENTRANCE 40
STA. +92.91
TYPE 1 DRIVEWAY
CONC. PAVED APPROACH
51.2' WIDTH (51.2' EXIST. WIDTH)
7' LENGTH L.T.

(20) 29H541302
2700 TELEGRAPH RD
N/F
EXCHANGERIGHT NET LEASED PORTFOLIO 29 DST
DB 23672 PG 143
EXISTING = 1.680 ACRES
TEMP. CONSTRUCTION ESMT. = 0.023 ACRES (999 SF)
REMAINDER = 1.680 ACRES

CARDINAL ACCOUNTING & TAX

RAPID MEDLAB

WALGREENS

+46.18 40.38' LT (NE)
+46.18 47.38' LT (NJ)
+26.48 40.00' LT (NG)
+26.48 46.95' LT (NH)
+28.80 40.00' LT (NF)
T.C.E.
+26.05 40.00' LT (NJ)
+26.05 57.76' LT (NO)
+78.03 40.00' LT (NK)
+78.03 47.00' LT (NL)
+98.03 47.00' LT (NM)
+98.03 58.16' LT (NN)
+69.10 40.00' LT (CA)
T.C.E.
+69.10 45.00' LT (CD)

PARCEL 18 - T.C.E.

PT-PT	STATION AND OFFSET	LENGTH AND BEARING
NE NF	22+46.18 40.38' LT TO 22+28.80 40.00' LT	17.69' N 38°24'52" E
NF NG	22+28.80 40.00' LT TO 22+26.48 40.00' LT	2.31' N 39°39'26" E
NG NH	22+26.48 40.00' LT TO 22+26.48 46.95' LT	6.95' S 50°21'16" E
NH NJ	22+26.48 46.95' LT TO 22+46.18 47.38' LT	20.00' S 38°24'52" W
NJ NE	22+46.18 47.38' LT TO 22+46.18 40.38' LT	7.00' N 50°21'16" W

PARCEL 19 - T.C.E.

PT-PT	STATION AND OFFSET	LENGTH AND BEARING
NJ NK	19+26.05 40.00' LT TO 18+78.03 40.00' LT	48.02' N 39°39'26" E
NK NL	18+78.03 40.00' LT TO 18+78.03 47.00' LT	7.00' S 50°20'34" E
NL NM	18+78.03 47.00' LT TO 18+98.03 47.00' LT	20.00' S 39°39'26" W
NM NN	18+98.03 47.00' LT TO 18+98.03 58.16' LT	11.16' S 50°20'34" E
NN NO	18+98.03 58.16' LT TO 19+26.05 57.76' LT	28.02' S 40°29'12" W
NO NJ	19+26.05 57.76' LT TO 19+26.05 40.00' LT	17.76' N 50°20'34" W

PARCEL 20 - T.C.E.

PT-PT	STATION AND OFFSET	LENGTH AND BEARING
CA CB	17+69.10 40.00' LT TO 15+69.51 40.00' LT	199.59' N 39°39'27" E
CB CC	15+69.51 40.00' LT TO 15+69.20 45.00' LT	5.01' S 53°54'43" E
CC CD	15+69.20 45.00' LT TO 17+69.10 45.00' LT	199.91' S 39°39'27" W
CD CA	17+69.10 45.00' LT TO 17+69.10 40.00' LT	5.00' N 50°20'34" W

PAVEMENT LEGEND
- PROPOSED SIDEWALK
- COLDMILLING BITUMINOUS PAVEMENT
- FULL DEPTH PAVEMENT, REMOVE AND REPLACE
- DRIVEWAY, REMOVE AND REPLACE
- ADA RAMP

GENERAL NOTES:
1. SEE NOTES ON ROW PLAN SHEET 1 OF 31.

LAYOUT	NS	01/2025
DRAWN	SMC	01/2025
REVIEWED	DJK	01/2025

ROW PLAN SHEETS
SHEET 5 OF 31

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STATE OF MISSOURI
DENNIS J KOSCIELSKI
NUMBER PE-2005000712
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED 7/15/2025

ROUTE	STATE
231	MO
DISTRICT	SHEET NO.
SL	39

COUNTY: ST. LOUIS
JOB NO.: J6S3631
CONTRACT ID.:
PROJECT NO.:
BRIDGE NO.:

DATE	DESCRIPTION

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

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JEFFERSON CITY, MO 65102
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PARCEL 21 - NEW R/W		
PT-PT	STATION AND OFFSET	LENGTH AND BEARING
(CJ)(CK)	15+15.41 47.00' RT TO 15+17.11 60.26' RT	13.37' N 57°39'34" W
(CJ)(CK)	15+17.11 60.26' RT TO 15+07.70 61.30' RT	9.47' N 33°21'24" E
(CK)(CL)	15+07.70 61.30' RT TO 15+06.47 51.74' RT	9.64' S 57°39'34" E
(CL)(CM)	15+06.47 51.74' RT TO 14+99.16 47.00' RT	8.72' N 72°34'10" E
(CM)(CJ)	14+99.16 47.00' RT TO 15+15.41 47.00' RT	16.25' S 39°39'27" W

PARCEL 22 - T.C.E.		
PT-PT	STATION AND OFFSET	LENGTH AND BEARING
(CE)(CF)	14+87.08 69.81' LT TO 14+87.61 61.23' LT	8.59' N 53°52'19" W
(CF)(CG)	14+87.61 61.23' LT TO 14+84.07 48.58' LT	R= 20.00', T= 6.95' L= 13.38', D= 286°28'44"
(CG)(CH)	14+84.07 48.58' LT TO 14+82.83 69.55' LT	21.01' S 53°44'04" E
(CH)(CE)	14+82.83 69.55' LT TO 14+87.08 69.81' LT	4.26' S 36°12'46" W

U.S. SURVEY NO. 3340

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SCALE 0 20 40 60

21
29H541111
2675 TELEGRAPH RD
N/F
NNN REIT, LP
DOC # 202306200097
EXISTING = 0.292 ACRES
NEW R/W = 0.003 ACRES (147 SF)
REMAINDER = 0.289 ACRES

29H541243
2701 TELEGRAPH RD
N/F
WESTERN OIL INC.
DOC # 2022062900028
NO ACQUISITION

28H221643
2651 TELEGRAPH RD
N/F
NNN REIT LP
DOC # 202306200097
NO ACQUISITION

PHILLIPS 66

JEFFERSONIAN DR

RTE. 231 / TELEGRAPH RD

JEFFERSON BARRACKS RD

MATCHLINE STA. 17+63.39

MATCHLINE STA. 12+38.39

DRWY 42 COMMERCIAL 51' WIDE (PAVED APPROACH) STA. 16+93.56

DRWY 46 COMMERCIAL 31' WIDE (PAVED APPROACH) STA. 13+42.09

EXIST. 7' X 7' PERM. DRAINAGE ESMT.

EXIST. 5' PERM. ESMT.

EXIST. 10' PERM. ESMT.

BUSH ROW

COMMERCIAL ENTRANCE 44 STA. +33.50 TYPE 1 DRIVEWAY CONC. PAVED APPROACH 29.3' EXIST. WIDTH 9' LENGTH L.T.

COMMERCIAL DRIVEWAY 45 STA. +63.58 TYPE 1 DRIVEWAY CONC. PAVED APPROACH 30.4' EXIST. WIDTH (30.4' EXIST. WIDTH) 9' LENGTH L.T.

DRWY 47 COMMERCIAL 26' WIDE (PAVED APPROACH) STA. 13+16.55

PAVEMENT LEGEND
- PROPOSED SIDEWALK
- COLDMILLING BITUMINOUS PAVEMENT
- FULL DEPTH PAVEMENT, REMOVE AND REPLACE
- DRIVEWAY, REMOVE AND REPLACE
- ADA RAMP

20
29H541302
2700 TELEGRAPH RD
N/F
EXCHANGERIGHT NET LEASED PORTFOLIO 29 DST
DB 23672 PG 143
(SEE PREVIOUS SHEET FOR R/W INFORMATION)

WALGREENS

22
29H541298
2666 TELEGRAPH RD
N/F
SHANE INVESTMENT GROUP, LLC
DB 25316 PG 307
EXISTING = 0.560 ACRES
TEMP. CONSTRUCTION ESMT. = 0.002 ACRES (73 SF)
REMAINDER = 0.560 ACRES

JACK IN THE BOX

28H221744
2650 TELEGRAPH RD
N/F
2650 TELEGRAPH BLDG. LLC
DB 21852 PG 307
NO ACQUISITION

CAFE TELEGRAPH SMOKE SHOP

GENERAL NOTES:
1. SEE NOTES ON ROW PLAN SHEET 1 OF 31.

LAYOUT	NS	01/2025
DRAWN	SMC	01/2025
REVIEWED	DJK	01/2025

ROW PLAN SHEETS
SHEET 6 OF 31

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STATE OF MISSOURI
DENNIS J KOSCIELSKI
NUMBER PE-2005000712
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED 7/15/2025

ROUTE	STATE
231	MO
DISTRICT	SHEET NO.
SL	40

COUNTY ST. LOUIS
JOB NO. J6S3631
CONTRACT ID.
PROJECT NO.
BRIDGE NO.

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

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St. Louis, Missouri 63101
Professional Engineer 001632
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PAVEMENT LEGEND
- PROPOSED SIDEWALK
- COLDMILLING BITUMINOUS PAVEMENT
- FULL DEPTH PAVEMENT, REMOVE AND REPLACE
- DRIVEWAY, REMOVE AND REPLACE
- ADA RAMP

U.S. SURVEY NO. 3340

SCALE 0 20 40 60

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28H221643
2651 TELEGRAPH RD
N/F
NNN REIT LP
DOC # 2023060200097
NO ACQUISITION

28H221652
2641 TELEGRAPH RD
N/F
GVL PROPERTIES LLC
DB 24350 PG 4369
NO ACQUISITION

28H221616
2635 TELEGRAPH RD
N/F
S & P LAND TRUST
DB 21540 PG 2117
NO ACQUISITION

28H220273
2631 TELEGRAPH RD
N/F
BRADY, DEANNA D.
DB 20605 PG 294
NO ACQUISITION

28H221625
2625 TELEGRAPH RD
N/F
RVB & ASSOCIATES LLC
DB 10662 PG 2490
NO ACQUISITION

28H221634
2619 TELEGRAPH RD
N/F
RVB & ASSOCIATES LLC
DB 12419 PG 212
NO ACQUISITION

28H221692
2611 TELEGRAPH RD
N/F
AMER LLC
DB 18690 PG 2417
NO ACQUISITION

LOYALTY CONSTRUCTION RESTORATION LLC

INDOOR COMFORT TEAM

FRATERNAL ORDER OF EAGLES

GVL PLUMBING
CHARLES H FIKE, LLC
TAX & ACCOUNTING SERVICES

COMMERCIAL ENTRANCE 49
STA. 11+47.06
TYPE D DRIVEWAY
CONC. PAVED APPROACH
15.6' WIDTH (11.0' EXIST. WIDTH)
9' LENGTH R.T.

DRWY 50
COMMERCIAL
18' WIDE
(PAVED APPROACH)
STA. 11+45.22

DRWY 52
PRIVATE
12' WIDE
(PAVED APPROACH)
STA. 10+82.59

DRWY 53
COMMERCIAL
11' WIDE
(PAVED APPROACH)
STA. 10+38.39

DRWY 54
COMMERCIAL
30' WIDE
(PAVED APPROACH)
STA. 9+94.83

EXIST. PERM. DRAINAGE ESMT.

+60.09 50.68'RT
+65.42 47.00'RT
+73.15 47.00'RT

TELEGRAPH RD

MATCHLINE STA. 12+38.39

MATCHLINE STA. 7+28.39

RTE. 231 / TELEGRAPH RD

℄ R/W RTE. 231

S 39°39'26" W

℄ TELEGRAPH RD

36'

75'R

+34.16 40.00'LT (CS)
+34.16 45.50'LT (CT)
PERM. ESMT.
+47.11 40.00'LT (CR)
+46.77 45.50'LT (CU)

+90.72 40.00'LT (CN)
PERM. ESMT.
+74.72 43.50'LT (CP)
+90.72 43.50'LT (CO)
+74.72 40.00'LT (CQ)
EXIST. BUILDING (DND)

+87.19 40.00'LT S.L.

+86.49 40.00'LT
+81.91 56.22'LT

DRWY 51
COMMERCIAL
18' WIDE
(PAVED APPROACH)
STA. 11+31.16

+21.31 41.82'LT
+32.53 66.95'LT

DRWY 55
COMMERCIAL
30' WIDE
(PAVED APPROACH)
STA. 9+93.55

+18.93 40.00'LT
+18.82 41.82'LT

23
28H310297
2608 TELEGRAPH RD
N/F
EXCELDA DEVELOPMENT COMPANY
DB 5488 PG 13
EXISTING = 0.148 ACRES
PERM. ESMT. = 0.001 ACRES (56 SF)
REMAINDER = 0.148 ACRES

28H310341
2598 TELEGRAPH RD
N/F
SASSCO LLC
DB 18740 PG 564
NO ACQUISITION

SUNCE EUROPA BAKERY & GROCERY

SHEETS LAUNDROMAT

THE CROW BAR & DELI

℄ LAREDO AVE

24
28H311881
149 LAREDO AVE
N/F
LAREDO PROPERTIES, LLC
DB 17466 PG 2461
EXISTING = 0.830 ACRES
PERM. ESMT. = 0.002 ACRES (70 SF)
REMAINDER = 0.830 ACRES

28H221744
2650 TELEGRAPH RD
N/F
2650 TELEGRAPH BLDG. LLC
DB 21852 PG 307
NO ACQUISITION

CAFE TELEGRAPH SMOKE SHOP

BETTY JEAN LN

28H220122
2612 TELEGRAPH RD
N/F
EXCELDA DEVELOPMENT COMPANY
DB 5488 PG 13
NO ACQUISITION

CASH AMERICA PAWN

MIMI NAIL PRO

LAREDO AVE

6' SW

PARCEL 23 – PERMANENT EASEMENT		
PT-PT	STATION AND OFFSET	LENGTH AND BEARING
(CN)(CO)	8+90.72 40.00' LT TO 8+74.72 40.00' LT	16.00' N 39°39'27" E
(CO)(CP)	8+74.72 40.00' LT TO 8+74.72 43.50' LT	3.50' S 50°20'34" E
(CP)(CQ)	8+74.72 43.50' LT TO 8+90.72 43.50' LT	16.00' S 39°39'27" W
(CQ)(CN)	8+90.72 43.50' LT TO 8+90.72 40.00' LT	3.50' N 50°20'34" W

PARCEL 24 – PERMANENT EASEMENT		
PT-PT	STATION AND OFFSET	LENGTH AND BEARING
(CR)(CS)	7+47.11 40.00' LT TO 7+34.16 40.00' LT	12.96' N 39°39'27" E
(CS)(CT)	7+34.16 40.00' LT TO 7+34.16 45.50' LT	5.50' S 50°20'34" E
(CT)(CU)	7+34.16 45.50' LT TO 7+46.77 45.50' LT	12.61' S 39°39'27" W
(CU)(CR)	7+46.77 45.50' LT TO 7+47.11 40.00' LT	5.51' N 53°54'08" W

GENERAL NOTES:
1. SEE NOTES ON ROW PLAN SHEET 1 OF 31.

ROW PLAN SHEETS
SHEET 7 OF 31

LAYOUT	NS	01/2025
DRAWN	SMC	01/2025
REVIEWED	DJK	01/2025

STATE OF MISSOURI
DENNIS J KOSCIELSKI
NUMBER PE-2005000712
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED 7/15/2025

ROUTE	STATE
231	MO
DISTRICT	SHEET NO.
SL	41

COUNTY ST. LOUIS
JOB NO. J6S3631
CONTRACT ID.
PROJECT NO.
BRIDGE NO.

DESCRIPTION	DATE

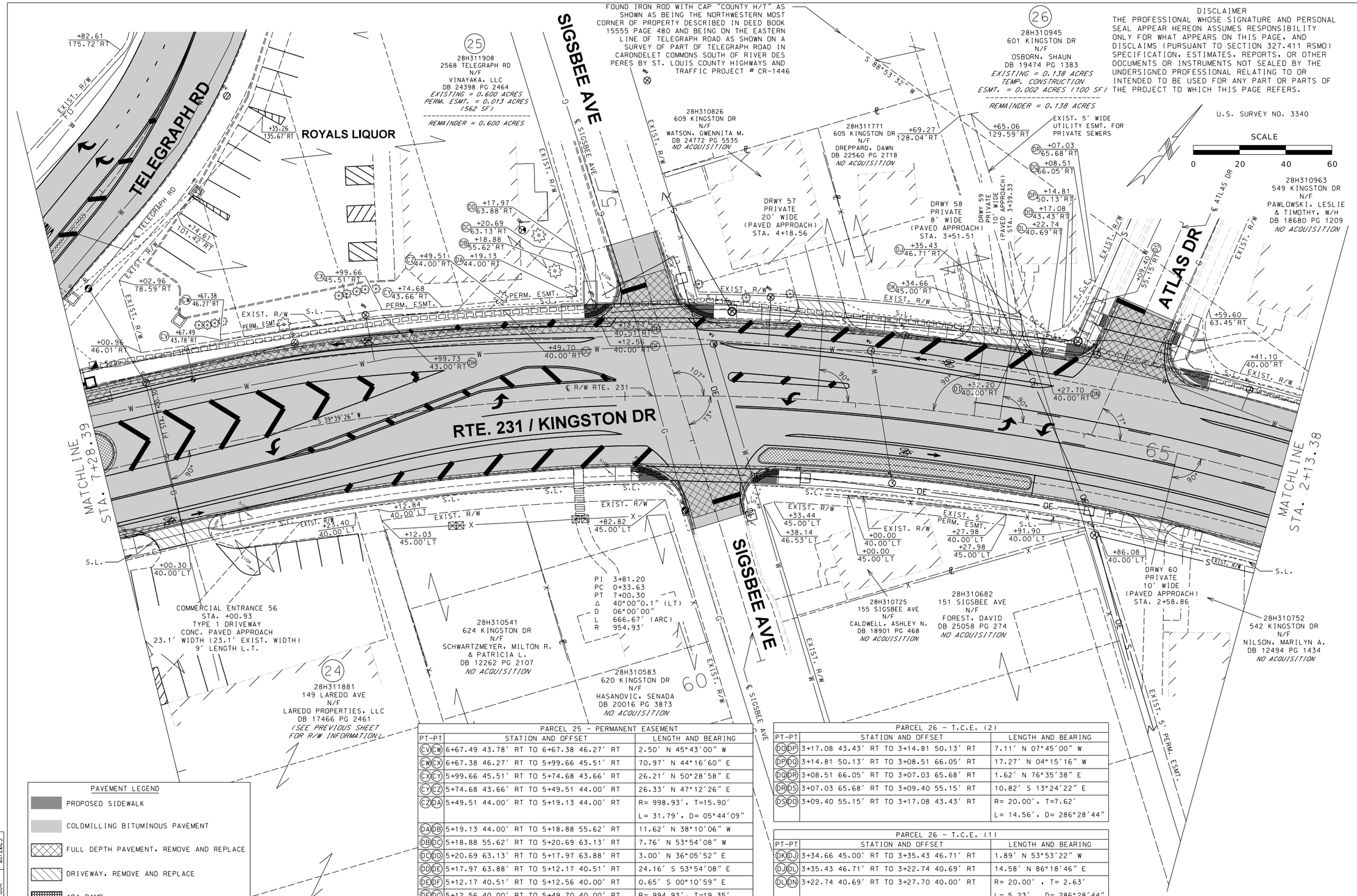
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105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

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PAVEMENT LEGEND

- PROPOSED SIDEWALK
- COLDMILLING BITUMINOUS PAVEMENT
- FULL DEPTH PAVEMENT, REMOVE AND REPLACE
- DRIVEWAY, REMOVE AND REPLACE
- ADA RAMP

GENERAL NOTES:
1. SEE NOTES ON ROW PLAN SHEET 1 OF 31.

PARCEL 25 – PERMANENT EASEMENT

PT–PT	STATION AND OFFSET	LENGTH AND BEARING
CV CW	6+67.49 43.78' RT TO 6+67.38 46.27' RT	2.50' N 45°43'00" W
CW CX	6+67.38 46.27' RT TO 5+99.66 45.51' RT	70.97' N 44°16'60" E
CX CY	5+99.66 45.51' RT TO 5+74.68 43.66' RT	26.21' N 50°28'58" E
CY CZ	5+74.68 43.66' RT TO 5+49.51 44.00' RT	26.33' N 47°12'26" E
CZ DA	5+49.51 44.00' RT TO 5+19.13 44.00' RT	R= 998.93', T=15.90' L= 31.79', D= 05°44'09"
DA DB	5+19.13 44.00' RT TO 5+18.88 55.62' RT	11.62' N 38°10'06" W
DB DC	5+18.88 55.62' RT TO 5+20.69 63.13' RT	7.76' N 53°54'08" W
DC DD	5+20.69 63.13' RT TO 5+17.97 63.88' RT	3.00' N 36°05'52" E
DD DE	5+17.97 63.88' RT TO 5+12.17 40.51' RT	24.16' S 53°54'08" E
DE DF	5+12.17 40.51' RT TO 5+12.56 40.00' RT	0.65' S 00°10'59" E
DF DG	5+12.56 40.00' RT TO 5+49.70 40.00' RT	R= 994.93', T=19.35' L= 38.70', D= 05°45'32"
DG DH	5+49.70 40.00' RT TO 5+99.73 43.00' RT	52.28' S 50°28'58" W
DH CV	5+99.73 43.00' RT TO 6+67.49 43.78' RT	70.83' S 44°17'00" W

PARCEL 26 – T.C.E. (2)

PT–PT	STATION AND OFFSET	LENGTH AND BEARING
DO DP	3+17.08 43.43' RT TO 3+14.81 50.13' RT	7.11' N 07°45'00" W
DP DQ	3+14.81 50.13' RT TO 3+08.51 66.05' RT	17.27' N 04°15'16" W
DQ DR	3+08.51 66.05' RT TO 3+07.03 65.68' RT	1.62' N 76°35'38" E
DR DS	3+07.03 65.68' RT TO 3+09.40 55.15' RT	10.82' S 13°24'22" E
DS DO	3+09.40 55.15' RT TO 3+17.08 43.43' RT	R= 20.00', T=7.62' L= 14.56', D= 286°28'44"

PARCEL 26 – T.C.E. (1)

PT–PT	STATION AND OFFSET	LENGTH AND BEARING
DK DJ	3+34.66 45.00' RT TO 3+35.43 46.71' RT	1.89' N 53°53'22" W
DJ DL	3+35.43 46.71' RT TO 3+22.74 40.69' RT	14.58' N 86°18'46" E
DL DN	3+22.74 40.69' RT TO 3+27.70 40.00' RT	R= 20.00' , T= 2.63' L= 5.23' , D= 286°28'44"
DN DJ	3+27.70 40.00' RT TO 3+32.20 40.00' RT	R= 994.93' , T= 2.43' L= 4.87' , D= 05°45'32"
DJ DK	3+32.20 40.00' RT TO 3+34.66 45.00' RT	5.54' N 53°53'22" W

LAYOUT	NS	01/2025
DRAWN	SMC	01/2025
REVIEWED	DJK	01/2025

ROW PLAN SHEETS
SHEET 8 OF 31

STATE OF MISSOURI
DENNIS J KOSCIELSKI
NUMBER PE-2005000712
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED 7/15/2025

ROUTE	STATE
231	MO
DISTRICT	SHEET NO.
SL	42

COUNTY: ST. LOUIS
JOB NO.: J6S3631
CONTRACT ID.:
PROJECT NO.:
BRIDGE NO.:

DESCRIPTION	DATE

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

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PAVEMENT LEGEND

- PROPOSED SIDEWALK
- COLDMILLING BITUMINOUS PAVEMENT
- FULL DEPTH PAVEMENT, REMOVE AND REPLACE
- DRIVEWAY, REMOVE AND REPLACE
- ADA RAMP

U.S. SURVEY NO. 3340

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SCALE 0 20 40 60

28H311001 545 KINGSTON DR N/F CELESLIE PROPERTIES LLC DOC # 2022061300354 *NO ACQUISITION*

DRWY 61 PRIVATE 10' WIDE (PAVED APPROACH) STA. 1+80.95

28H311045 541 KINGSTON DR N/F TIMOTHY A. WOODBURN JR., TRUSTEE DB 24339 PG 468 *NO ACQUISITION*

DRWY 63 PRIVATE 16' WIDE (PAVED APPROACH) STA. 1+41.10

PI 3+81.20
PC 0+33.63
PT 7+00.30
Δ 40°00'0.1" (LT)
D 06°00'00"
L 666.67' (ARC)
T 347.57'
R 954.93'

28H311056 537 KINGSTON DR N/F WICK, LORETTA DB 23316 PG 2125 *NO ACQUISITION*

28H311067 533 KINGSTON DR N/F MIDDLETON, JEFF & ELLA, H/W DB 10731 PG 2268 *NO ACQUISITION*

DRWY 64 PRIVATE 10' WIDE (PAVED APPROACH) STA. 0+99.13

28H311089 529 KINGSTON DR N/F NOSER, TRACY L. & MYRICK, ERIC DB 18012 PG 1298 *NO ACQUISITION*

DRWY 66 PRIVATE 10' WIDE (PAVED APPROACH) STA. 0+31.90

28H311090 523 KINGSTON DR N/F MOCUMBI, JADEN DOC # 2023010400375 *NO ACQUISITION*

DRWY 68 PRIVATE 11' WIDE (PAVED APPROACH) STA. 111+62.53

EQUATION: STA. 111+70.58 BK = STA. 0+01.11 AHD

28H311111 519 KINGSTON DR N/F MOONEY, DEBRA A. DB 10783 PG 1732 *NO ACQUISITION*

DRWY 69 PRIVATE 10' WIDE (PAVED APPROACH) STA. 111+22.84

EXIST. 2.5' PERM. ESMT. FOR SEWERS

28H311122 515 KINGSTON DR N/F 515 KINGSTON LLC DB 23532 PG 4152 *NO ACQUISITION*

EXIST. 2.5' PERM. ESMT. FOR SEWERS

DRWY 70 PRIVATE 19' WIDE (PAVED APPROACH) STA. 110+78.03

28H311166 509 KINGSTON DR N/F YOUNG, CHRISTINE J. DB 15085 PG 3007 *NO ACQUISITION*

28H311177 505 KINGSTON DR N/F NORRIS, WILLIAM L. DB 15210 PG 178 *NO ACQUISITION*

DRWY 72 PRIVATE 10' WIDE (PAVED APPROACH) STA. 110+03.94

28H311694 501 KINGSTON DR N/F MORGADO, MARIA D. DB 21896 PG 2927 *NO ACQUISITION*

28H311199 465 KINGSTON DR N/F BERTCHUME, STEVE J. & ROSE M., H/W DB 14397 PG 1247 *NO ACQUISITION*

GENEVA DR

℄ GENEVA DR

EXIST. R/W

MATCHLINE STA. 2+13.38

MATCHLINE STA. 108+82.88

RTE. 231 / KINGSTON DR

℄ R/W RTE. 231

S 79°39'27" W

PC STA. 0+33.63

PC STA. 109+42.65

28H311852 540 KINGSTON DR N/F VOGT, CHRISTINE A. DB 17671 PG 112 *NO ACQUISITION*

DRWY 62 PRIVATE 11' WIDE (PAVED APPROACH) STA. 1+66.80

DRWY 65 PRIVATE 11' WIDE (PAVED APPROACH) STA. 0+79.46

28H310792 532 KINGSTON DR N/F CARRASQUEDO-DE LA CRUZ-MANJARREZ, JOSE L. & CASTILLO-GARCIA, BITIA, H/W DB 25336 PG 4089 *NO ACQUISITION*

PRIVATE ENTRANCE 67 STA. +04.79 TYPE 1 ENTRANCE CONC. PAVED APPROACH TO 2' WIDTH (TO 2' EXIST. WIDTH) 2' LENGTH L.T.

28H310080 528 KINGSTON DR N/F CHIANTA, GAETANO DB 22690 PG 178 *EXISTING = 0.113 ACRES TEMP. CONSTRUCTION ESMT. = 0.002 ACRES (100 SF)*

REMAINDER = 0.113 ACRES

28H310817 524 KINGSTON DR N/F QUINN, MARY H. & CLARK, DOUGLAS M. DB 17826 PG 10 *NO ACQUISITION*

EXIST. 10' PERM. ESMT.

28H310752 542 KINGSTON DR N/F NILSON, MARILYN A. DB 12494 PG 1434 *NO ACQUISITION*

℄ SHETLAND DR

SHETLAND DR

28H310835 506 KINGSTON DR N/F MOLNER, REBECCA E. DOC # 2023011100342 *NO ACQUISITION*

DRWY 71 PRIVATE 11' WIDE (PAVED APPROACH) STA. 110+32.92

28H310853 504 KINGSTON DR N/F LUKING, LISA A. & MICHAEL R., W/H DB 21800 PG 1738 *NO ACQUISITION*

DRWY 73 PRIVATE 10' WIDE (PAVED APPROACH) STA. 109+93.13

28H310862 500 KINGSTON DR N/F MITCHELL, HOLLY DB 23044 PG 1788 *NO ACQUISITION*

DRWY 74 PRIVATE 10' WIDE (PAVED APPROACH) STA. 109+51.30

28H310880 472 KINGSTON DR N/F HINKELMAN, DANIEL I. & ERIN M., H/W DB 19230 PG 1483 *NO ACQUISITION*

DRWY 75 PRIVATE 10' WIDE (PAVED APPROACH) STA. 109+13.10

28H310871 468 KINGSTON DR N/F TURNER, THOMAS E. & KATHLEEN M. DB 8086 PG 620 *NO ACQUISITION*

PI 106+02.66
PC 102+26.82
PT 109+42.65
Δ 42°57'00" (RT)
D 06°00'00"
L 716.16' (CHORD)
T 375.85'
R 955.37'

PARCEL 27 - T.C.E.		
PT-PT	STATION AND OFFSET	LENGTH AND BEARING
NT NU	0+32.32 40.00' LT TO 0+12.32 40.00' LT	20.00' N 79°39'27" E
NU NV	0+12.32 40.00' LT TO 0+12.32 45.00' LT	5.00' S 10°20'33" E
NV NW	0+12.32 45.00' LT TO 0+32.32 45.00' LT	20.00' S 79°39'27" W
NW NT	0+32.32 45.00' LT TO 0+32.32 40.00' LT	5.00' N 10°20'33" W

GENERAL NOTES:
1. SEE NOTES ON ROW PLAN SHEET 1 OF 31.

LAYOUT	NS	01/2025
DRAWN	SMC	01/2025
REVIEWED	DJK	01/2025

ROW PLAN SHEETS
SHEET 9 OF 31

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STATE OF MISSOURI
DENNIS J KOSCIELSKI
NUMBER PE-2005000712
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED 7/15/2025

ROUTE	STATE
231	MO
DISTRICT	SHEET NO.
SL	43

COUNTY ST. LOUIS

JOB NO. J6S3631

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION	DATE

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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PAVEMENT LEGEND

- PROPOSED SIDEWALK
- COLDMILLING BITUMINOUS PAVEMENT
- FULL DEPTH PAVEMENT, REMOVE AND REPLACE
- DRIVEWAY, REMOVE AND REPLACE
- ADA RAMP

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U.S. SURVEY NO. 3340

SCALE 0 20 40 60

28H311199 465 KINGSTON DR N/F BERTCHUME, STEVE J. & ROSE M., H/W DB 14397 PG 1247 NO ACQUISITION

28H311210 461 KINGSTON DR N/F SADIQUALLAH, IHSANULLAH DOC # 2023011900238 NO ACQUISITION

28H311221 453 KINGSTON DR N/F RAINEY, JARED DB 23320 PG 2601 NO ACQUISITION

28H311243 447 KINGSTON DR N/F HORNBURG, JESSICA D. DB 20447 PG 2190 NO ACQUISITION

28H311265 445 KINGSTON DR N/F MOELLER, JANET L. DB 17979 PG 2103 NO ACQUISITION

28H311298 439 KINGSTON DR N/F SWINHART, WILLIAM M. & KAREN S., H/W DB 12220 PG 585 NO ACQUISITION

28H311364 435 KINGSTON DR N/F MORRISON, RICHARD J. & LINDSAY, H/W DB 21636 PG 1501 NO ACQUISITION

28H311403 431 KINGSTON DR N/F BUEHLER, BRIAN & NICOLE M., H/W DB 17284 PG 744 NO ACQUISITION

28H311463 427 KINGSTON DR N/F 427 KINGSTON DR LLC DB 22508 PG 2146 NO ACQUISITION

28H320131 423 KINGSTON DR N/F ELITE PROPERTIES INVESTMENTS LLC DB 21804 PG 633 NO ACQUISITION

28H320153 417 KINGSTON DR N/F SUBASIC, ENVER & SEDINA, H/W DB 24624 PG 4975 NO ACQUISITION

28H320175 411 KINGSTON DR N/F SUBASIC, ENVER & SEDINA, H/W DB 16829 PG 343 NO ACQUISITION

DRWY 76 PRIVATE 10' WIDE (PAVED APPROACH) STA. 108+52.26

DRWY 78 PRIVATE 10' WIDE (PAVED APPROACH) STA. 108+07.98

DRWY 81 PRIVATE 10' WIDE (PAVED APPROACH) STA. 107+63.65

DRWY 83 PRIVATE 19' WIDE (PAVED APPROACH) STA. 106+84.17

DRWY 85 PRIVATE 10' WIDE (PAVED APPROACH) STA. 105+95.70

DRWY 86 PRIVATE 9' WIDE (PAVED APPROACH) STA. 105+51.31

DRWY 87 PRIVATE 19' WIDE (PAVED APPROACH) STA. 105+02.03

DRWY 88 PRIVATE 12' WIDE (PAVED APPROACH) STA. 104+13.03

DRWY 89 PRIVATE 10' WIDE (PAVED APPROACH) STA. 104+02.51

105

MATCHLINE STA. 108+82.88

MATCHLINE STA. 103+83.11

S.L. EXIST. R/W W G S

℄ R/W RTE. 231

RTE. 231 / KINGSTON DR

+26.97 40.00' LT

+08.16 59.33' LT

+07.90 72.53' LT

+42.32 40.00' LT

+61.13 59.37' LT

+61.46 72.50' LT

PI 106+02.66
PC 102+26.82
PT 109+42.65
Δ 42°57'00" (RT)
D 06°00'00"
R 716.16' (CHORD)
L 375.85'
955.37'

DRWY 77 PRIVATE 10' WIDE (PAVED APPROACH) STA. 108+43.25

DRWY 79 PRIVATE 10' WIDE (PAVED APPROACH) STA. 108+04.83

DRWY 80 PRIVATE 10' WIDE (PAVED APPROACH) STA. 107+66.24

DRWY 82 PRIVATE 19' WIDE (PAVED APPROACH) STA. 107+23.98

DRWY 84 PRIVATE 10' WIDE (PAVED APPROACH) STA. 106+79.66

80

℄ TERREL DR

TERREL DR

28H310909 464 KINGSTON DR N/F LEHMUTH, JACQUELINE M. DB 10849 PG 2298 NO ACQUISITION

28H310871 468 KINGSTON DR N/F TURNER, THOMAS E. & KATHLEEN M. DB 8086 PG 620 NO ACQUISITION

28H310927 460 KINGSTON DR N/F NEWTON, KALYN DB 24236 PG 2913 NO ACQUISITION

28H310936 456 KINGSTON DR N/F VITALE, KAROLYN P. DB 11555 PG 276 NO ACQUISITION

28H310954 448 KINGSTON DR N/F ROSE, KEVIN R. & WASHINGTON-ROSE, JENNIFER, H/W DB 24716 PG 3768 NO ACQUISITION

28H310981 444 KINGSTON DR N/F WHEELER, AMY L. DB 25156 PG 1834 NO ACQUISITION

28H311012 440 KINGSTON DR N/F WILLIS, PATTI M. DB 17140 PG 2611 NO ACQUISITION

28H320043 436 KINGSTON DR N/F MAYNARD, KAREN DB 16595 PG 1770 NO ACQUISITION

28H320054 428 KINGSTON DR N/F HECK, MICHAEL DB 23160 PG 1007 NO ACQUISITION

28H320065 424 KINGSTON DR N/F ANDERSON, ROY M. & SHARON, H/W DB 20802 PG 193 NO ACQUISITION

28H320076 420 KINGSTON DR N/F GORDON, WILLIAM R., & ROCHELLE K., H/W DB 21088 PG 1505 NO ACQUISITION

28H320087 416 KINGSTON DR N/F RUSSELL, DONALD DB 23146 PG 1430 NO ACQUISITION

28H320098 412 KINGSTON DR N/F RAMIC, HAKIJA & MUNIBA, H/W DB 17233 PG 1892 NO ACQUISITION

GENERAL NOTES:
1. SEE NOTES ON ROW PLAN SHEET 1 OF 31.

ROW PLAN SHEETS
SHEET 10 OF 31

LAYOUT	NS	01/2025
DRAWN	SMC	01/2025
REVIEWED	DJK	01/2025

STATE OF MISSOURI
DENNIS J KOSCIELSKI
NUMBER PE-2005000712
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED 7/15/2025

ROUTE	STATE
231	MO
DISTRICT	SHEET NO.
SL	44

COUNTY ST. LOUIS

JOB NO. J6S3631

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION	DATE

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

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JEFFERSON CITY, MO 65102
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PARCEL 28 - PERMANENT EASEMENT		
PT-PT	STATION AND OFFSET	LENGTH AND BEARING
(DX)(DY)	102+15.71 54.57' RT TO 102+03.31 54.91' RT	12.41' N 35°08'13" E
(DY)(DZ)	102+03.31 54.91' RT TO 101+96.78 40.00' RT	16.27' S 76°57'08" E
(DZ)(DX)	101+96.78 40.00' RT TO 102+15.71 54.57' RT	R= 20.00', T= 14.89' L= 25.60', D= 286°28'44"

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SCALE
0 20 40 60

U.S. SURVEY NO. 3340

TACOMA DR

SOUTHWARK LN

28H320197
405 KINGSTON DR
N/F
BERGEON, ERIN
DB 22288 PG 40
NO ACQUISITION

28H320203
401 KINGSTON DR
N/F
WOLF, JOSEPH M.
& JAYNE F., H/W
DB 22642 PG 1222
NO ACQUISITION

28H320175
411 KINGSTON DR
N/F
SUBASIC, ENVER
& SEDINA, H/W
DB 16829 PG 343
NO ACQUISITION

DRWY 90
PRIVATE
11' WIDE
(PAVED APPROACH)
STA. 103+55.31

28H340012
389 KINGSTON DR
N/F
GUZMAN, MICHAEL LEE
& DESTRI, H/W
DB 24314 PG 54
EXISTING = 0.103 ACRES
PERM. ESMT. = 0.004 ACRES
(158 SF)
REMAINDER = 0.103 ACRES

28H341222
385 KINGSTON DR
N/F
OP HOLDINGS LLC
DB 23382 PG 373
NO ACQUISITION

DRWY 91
PRIVATE
10' WIDE
(PAVED APPROACH)
STA. 101+18.27

28H340104
200 SOUTHWARK LN
N/F
TURNER, THOMAS R.
DB 25268 PG 1501
NO ACQUISITION

28H340151
201 SOUTHWARK LN
N/F
SARDO, JOSEPH
DB 24222 PG 2550
NO ACQUISITION

EXIST. FENCE (DND)

EXIST. 5' PERM. ESMT. FOR UTILITIES AND SEWERS

EXIST. 10' PERM. ESMT. FOR SEWERS

EXIST. 5' PERM. ESMT. FOR UTILITIES AND SEWERS

EXIST. 5' PERM. ESMT.

EXIST. 10' PERM. ESMT.

EXIST. 15' PERM. SEWER ESMT.

EXIST. 20' PERM. DRAINAGE ESMT.

EXIST. R/W

+19.05 153.99'RT
+78.98 152.08'RT
+18.77 144.00'RT (28)
+79.06 155.08'RT
+29.99 153.42'RT
+39.08 156.18'RT
+39.00 153.18'RT
+78.79 145.09'RT
+38.81 146.18'RT
+29.80 146.42'RT
+30.07 156.42'RT
+20.08 156.69'RT
+20.00 153.69'RT
+19.80 146.70'RT
+99.09 157.27'RT
+99.01 154.27'RT
+03.82 147.13'RT
+98.58 137.34'RT
+93.62 140.23'RT
+88.44 132.61'RT
+23.47 134.40'RT
+93.34 130.23'RT
+89.27 90.00'RT
+77.27 90.00'RT
+97.27 89.73'RT
+91.70 70.55'RT
+43.50 136.59'RT
+43.36 131.59'RT
+41.65 69.45'RT
+41.02 65.00'RT
+21.66 50.00'RT
+16.46 59.45'RT
+15.71 54.57'RT (DX)
+03.31 54.91'RT (DY)
+96.78 40.00'RT (DZ)
+96.46 40.00'RT
+69.31 61.63'RT
+90.59 40.00'RT
+26.90 40.00'RT
+35.90 40.00'RT
+96.17 50.00'RT
+76.17 50.00'RT
+11.69 50.00'RT
+11.72 40.00'LT (LO)
+03.71 40.00'LT (LP)
+11.32 54.58'LT (LP)
+03.32 54.36'LT (LO)
+73.70 40.00'LT
+93.71 40.00'LT
+00.72 149.57'LT
+70.39 161.43'LT
+90.38 161.97'LT

PERM. DRAINAGE ESMT.

PERM. ESMT.

-40.00'RT

40.00'RT

S.L.

EXIST. R/W

MATCHLINE STA. 103+83.11

MATCHLINE STA. 98+58.19

RTE. 231 / KINGSTON DR

S 36°42'27" W ℄ R/W RTE. 231

PC STA. 102+26.82

PI 106+02.66
PC 102+26.82
PT 109+42.65
Δ 42°57'00" (RT)
D 06°00'00"
L 716.16' (CHORD)
T 375.85'
R 955.37'

28H320102
408 KINGSTON DR
N/F
KOESTER, JASON C.
DB 16966 PG 1813
NO ACQUISITION

28H320111
404 KINGSTON DR
N/F
MUJANIC, NAIM & NISFETA
DB 14854 PG 891
NO ACQUISITION

28H320120
400 KINGSTON DR
N/F
GLEIFORST, EMIL D. III
& DEBORAH M., H/W
DB 12695 PG 1519
NO ACQUISITION

28H320142
396 KINGSTON DR
N/F
DURPHY, RORY
DB 22144 PG 2482
NO ACQUISITION

28H320164
392 KINGSTON DR
N/F
HAJEK, MICHELE A.
DB 11391 PG 1934
NO ACQUISITION

28H320186
386 KINGSTON DR
N/F
DUNN, ANDREW & LILY
DB 24952 PG 3459
NO ACQUISITION

(29)
28H320212
384 KINGSTON DR
N/F
MCDONALD, TAMMY L.
DB 15648 PG 1522
EXISTING = 0.188 ACRES
PERM. DRAINAGE
ESMT. = 0.003 ACRES
(116 SF)
REMAINDER = 0.188 ACRES

DRWY 92
COMMERCIAL
58' WIDE
(PAVED APPROACH)
STA. 100+44.83

28H341341
352 KINGSTON DR
N/F
LEAD M KINGSTON PROPERTIES LLC
DB 24091 PG 266
NO ACQUISITION

KINGSTON APARTMENTS

DRWY 93
COMMERCIAL
48' WIDE
(PAVED APPROACH)
STA. 98+82.71

PAVEMENT LEGEND
- PROPOSED SIDEWALK
- COLDMILLING BITUMINOUS PAVEMENT
- FULL DEPTH PAVEMENT, REMOVE AND REPLACE
- DRIVEWAY, REMOVE AND REPLACE
- ADA RAMP

PARCEL 29 - PERM. DRAINAGE ESMT.		
PT-PT	STATION AND OFFSET	LENGTH AND BEARING
(LO)(LP)	101+11.72 40.00' LT TO 101+03.71 40.00' LT	8.00' N 36°42'27" E
(LP)(LO)	101+03.71 40.00' LT TO 101+03.32 54.36' LT	14.37' S 54°51'22" E
(LO)(LR)	101+03.32 54.36' LT TO 101+11.32 54.58' LT	8.00' S 35°08'38" W
(LR)(LO)	101+11.32 54.58' LT TO 101+11.72 40.00' LT	14.59' N 54°51'22" W

GENERAL NOTES:
1. SEE NOTES ON ROW PLAN SHEET 1 OF 31.

LAYOUT	NS	01/2025
DRAWN	SMC	01/2025
REVIEWED	DJK	01/2025

ROW PLAN SHEETS
SHEET 11 OF 31

STATE OF MISSOURI
DENNIS J KOSCIELSKI
NUMBER PE-2005000712
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED
7/15/2025

ROUTE	STATE
231	MO
DISTRICT	SHEET NO.
SL	45

COUNTY
ST. LOUIS

JOB NO.
J6S3631

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

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PAVEMENT LEGEND

- PROPOSED SIDEWALK
- COLDMILLING BITUMINOUS PAVEMENT
- FULL DEPTH PAVEMENT, REMOVE AND REPLACE
- DRIVEWAY, REMOVE AND REPLACE
- ADA RAMP

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SCALE 0 20 40 60

STATE OF MISSOURI
DENNIS J KOSCIELSKI
NUMBER PE-2005000712
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED 7/15/2025

ROUTE	STATE
231	MO
DISTRICT	SHEET NO.
SL	46

COUNTY ST. LOUIS

JOB NO. J6S3631

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL
JEFFERSON CITY, MO 65102
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LAYOUT	NS	01/2025
DRAWN	SMC	01/2025
REVIEWED	DJK	01/2025

GENERAL NOTES:
1. SEE NOTES ON ROW PLAN SHEET 1 OF 31.

PARCEL 30 - PERM. DRAINAGE ESMT. (1)

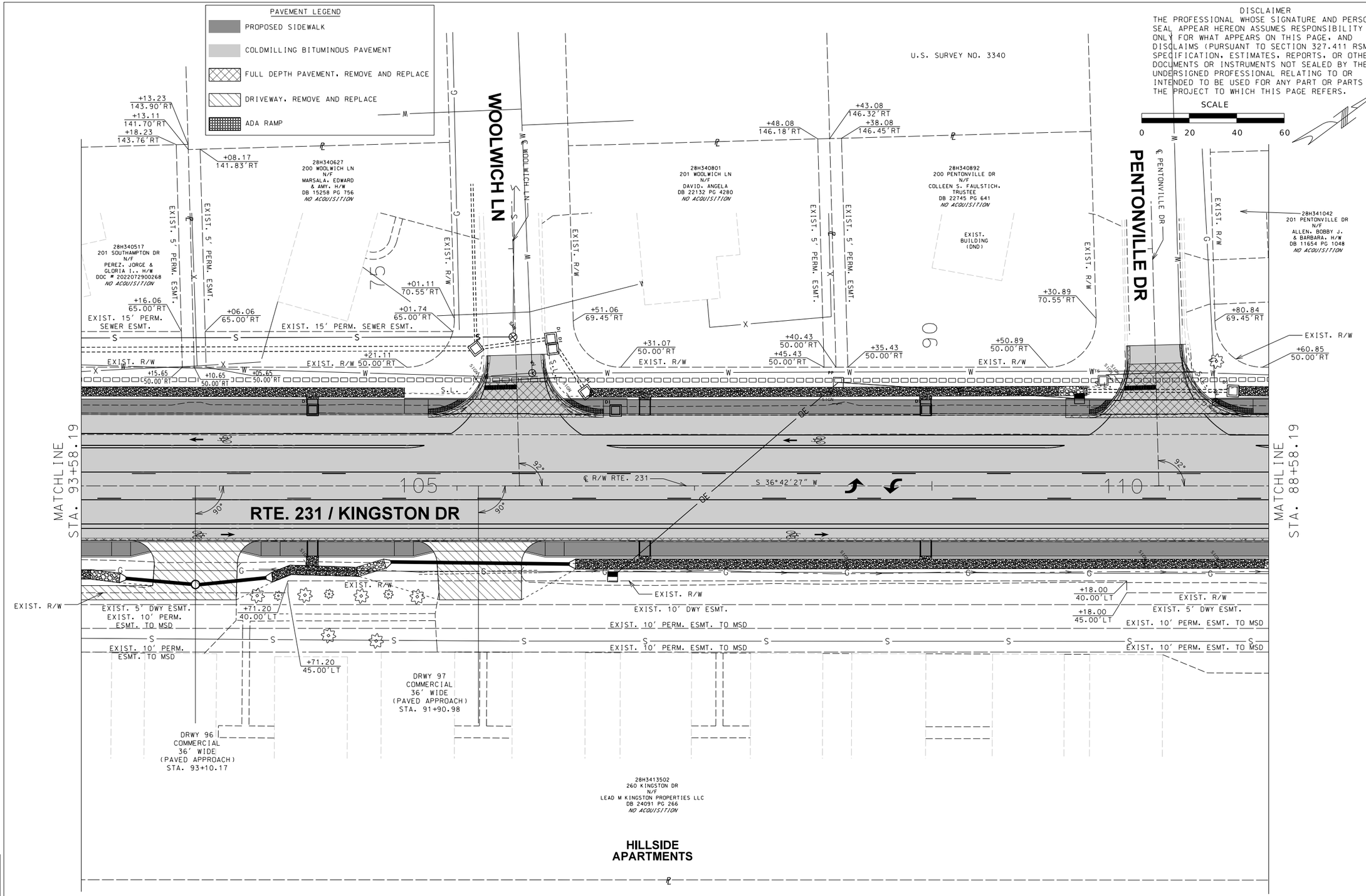
PT-PT	STATION AND OFFSET	LENGTH AND BEARING
LS-LT	96+80.13 40.00' LT TO 95+46.20 40.00' LT	133.93' N 36°42'27" E
LT-LU	95+46.20 40.00' LT TO 95+46.20 65.00' LT	25.00' S 53°17'33" E
LU-LV	95+46.20 65.00' LT TO 96+80.13 65.00' LT	133.93' S 36°42'08" W
LV-LS	96+80.13 65.00' LT TO 96+80.13 40.00' LT	25.01' N 53°17'52" W

PARCEL 30 - PERM. DRAINAGE ESMT. (2)

PT-PT	STATION AND OFFSET	LENGTH AND BEARING
LW-LX	94+96.20 45.00' LT TO 94+87.51 45.00' LT	8.69' N 36°42'27" E
LX-LY	94+87.51 45.00' LT TO 94+87.51 50.00' LT	5.00' S 53°17'09" E
LY-LZ	94+87.51 50.00' LT TO 94+87.51 65.00' LT	15.00' S 53°17'09" E
LZ-MA	94+87.51 65.00' LT TO 94+96.20 65.00' LT	8.69' S 36°42'08" W
MA-LW	94+96.20 65.00' LT TO 94+96.20 45.00' LT	20.00' N 53°17'33" W

ROW PLAN SHEETS
SHEET 12 OF 31

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STATE OF MISSOURI
DENNIS J KOSCIELSKI
NUMBER PE-2005000712
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED	
7/15/2025	
ROUTE	STATE
231	MO
DISTRICT	SHEET NO.
SL	47
COUNTY	
ST. LOUIS	
JOB NO.	
J6S3631	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

DESCRIPTION	DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL
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1-888-ASK-MODOT (1-888-275-6636)

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LAYOUT	NS	01/2025
DRAWN	SMC	01/2025
REVIEWED	DJK	01/2025

GENERAL NOTES:
1. SEE NOTES ON ROW PLAN SHEET 1 OF 31.

ROW PLAN SHEETS
SHEET 13 OF 31

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PAVEMENT LEGEND

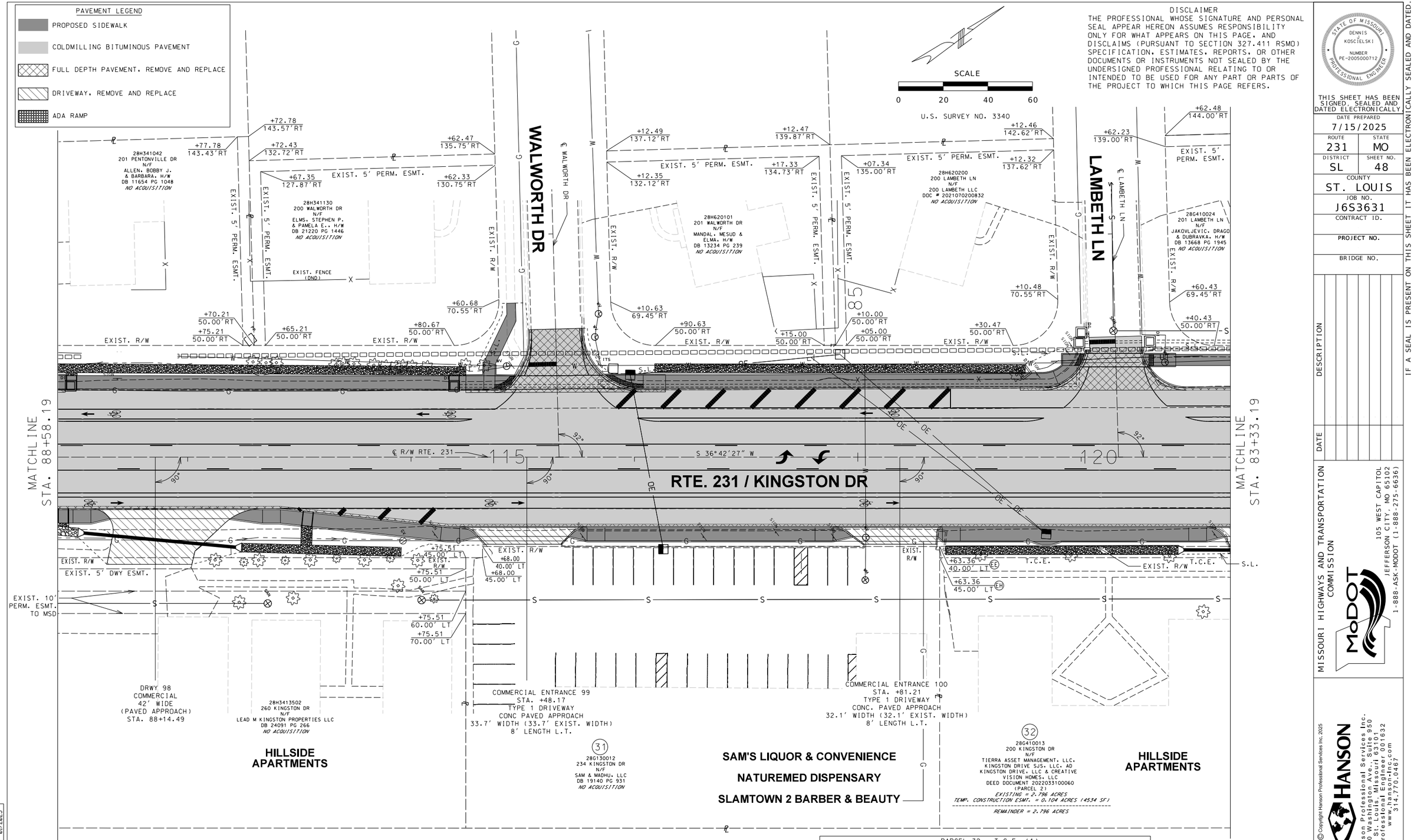
- PROPOSED SIDEWALK
- COLDMILLING BITUMINOUS PAVEMENT
- FULL DEPTH PAVEMENT, REMOVE AND REPLACE
- DRIVEWAY, REMOVE AND REPLACE
- ADA RAMP

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SCALE

0 20 40 60



PARCEL 32 - T.C.E. (1)		
PT-PT	STATION AND OFFSET	LENGTH AND BEARING
EE-EF	84+63.36 40.00' LT TO 81+18.00 40.00' LT	345.36' N 36°42'27" E
EF-EG	81+18.00 40.00' LT TO 81+18.00 45.00' LT	5.00' S 53°17'33" E
EG-EH	81+18.00 45.00' LT TO 84+63.36 45.00' LT	345.36' S 36°42'27" W
EH-EE	84+63.36 45.00' LT TO 84+63.36 40.00' LT	5.00' N 53°17'33" W

GENERAL NOTES:
1. SEE NOTES ON ROW PLAN SHEET 1 OF 31.

ROW PLAN SHEETS
SHEET 14 OF 31

LAYOUT	NS	01/2025
DRAWN	SMC	01/2025
REVIEWED	DJK	01/2025

STATE OF MISSOURI
DENNIS J. KOSCIELSKI
NUMBER PE-2005000712
PROFESSIONAL ENGINEER

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DATE PREPARED 7/15/2025

ROUTE	STATE
231	MO
DISTRICT	SHEET NO.
SL	48

COUNTY ST. LOUIS
JOB NO. J6S3631
CONTRACT ID.
PROJECT NO.
BRIDGE NO.

DESCRIPTION	DATE

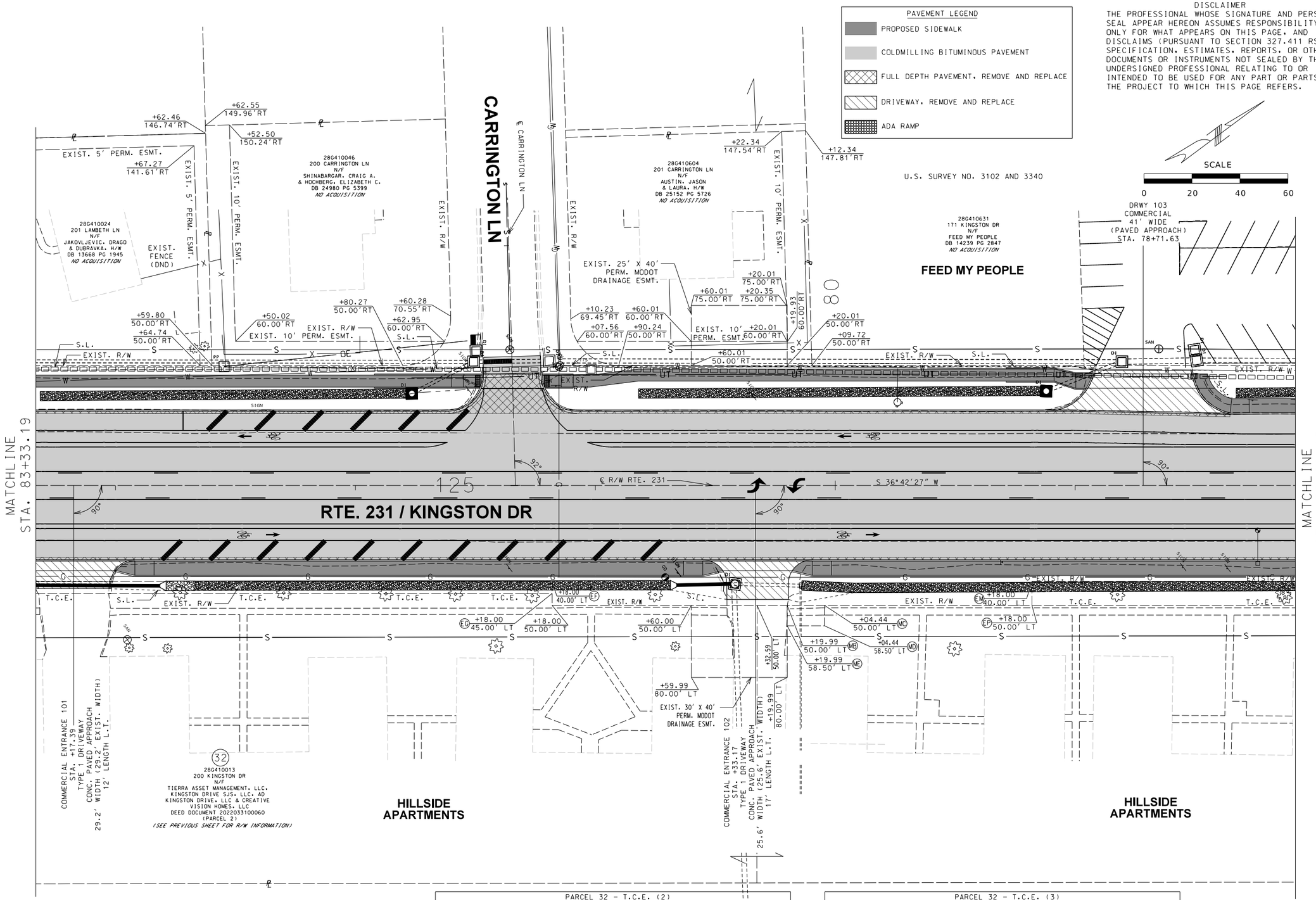
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PARCEL 32 - T.C.E. (2)		
PT-PT	STATION AND OFFSET	LENGTH AND BEARING
(MB)(MC)	80+19.99 50.00' LT TO 80+04.44 50.00' LT	15.55' N 36°42'27" E
(MC)(MD)	80+04.44 50.00' LT TO 80+04.44 58.50' LT	8.50' S 53°17'33" E
(MD)(ME)	80+04.44 58.50' LT TO 80+19.99 58.50' LT	15.55' S 36°42'27" W
(ME)(MB)	80+19.99 58.50' LT TO 80+19.99 50.00' LT	8.50' N 53°18'05" W

PARCEL 32 - T.C.E. (3)		
PT-PT	STATION AND OFFSET	LENGTH AND BEARING
(EM)(EN)	79+18.00 40.00' LT TO 76+50.48 40.00' LT	267.52' N 36°42'27" E
(EN)(EO)	76+50.48 40.00' LT TO 76+50.48 50.00' LT	10.00' S 53°17'33" E
(EO)(EP)	76+50.48 50.00' LT TO 79+18.00 50.00' LT	267.52' S 36°42'27" W
(EP)(EM)	79+18.00 50.00' LT TO 79+18.00 40.00' LT	10.00' N 53°17'33" W

GENERAL NOTES:
1. SEE NOTES ON ROW PLAN SHEET 1 OF 31.

LAYOUT	NS	01/2025
DRAWN	SMC	01/2025
REVIEWED	DJK	01/2025

ROW PLAN SHEETS
SHEET 15 OF 31

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STATE OF MISSOURI
DENNIS J KOSCIELSKI
NUMBER PE-2005000712
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED
7/15/2025

ROUTE	STATE
231	MO
DISTRICT	SHEET NO.
SL	49

COUNTY
ST. LOUIS

JOB NO.
J6S3631

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION	DATE

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
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PAVEMENT LEGEND

- PROPOSED SIDEWALK
- COLDMILLING BITUMINOUS PAVEMENT
- FULL DEPTH PAVEMENT, REMOVE AND REPLACE
- DRIVEWAY, REMOVE AND REPLACE
- ADA RAMP

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U.S. SURVEY NO. 904, 3102, AND 3340

SCALE 0 20 40 60

28G410631
171 KINGSTON DR
N/F
FEED MY PEOPLE
DB 14239 PG 2847
NO ACQUISITION

FEED MY PEOPLE

28G410178
161 KINGSTON DR
N/F
SABANAGIC, FERID
DB 21873 PG 602
NO ACQUISITION

ARCH AUTO REPAIR SHOP

28G410651
159 KINGSTON DR
N/F
HADZIC, ENES
DB 22248 PG 2291
NO ACQUISITION

28G410288
155 KINGSTON DR
N/F
WRIGHT, TIMOTHY L. & KAREN A., H/W
DB 8014 PG 2292
NO ACQUISITION

28G4103328
151 KINGSTON DR
N/F
ECKMAN, AUDREY J. & BRETT A.
DB 11720 PG 1438
NO ACQUISITION

28G410387
147 KINGSTON DR
N/F
147 KINGSTON DRIVE LLC
DB 22155 PG 487
NO ACQUISITION

EXIST. R/W — CLYDE AVE — EXIST. R/W — ℄ CLYDE AVE

DRWY 105
COMMERCIAL
35' WIDE
(PAVED APPROACH)
STA. 76+08.51

DRWY 106
COMMERCIAL
48' WIDE
(PAVED APPROACH)
STA. 75+18.54

DRWY 107
PRIVATE
11' WIDE
(PAVED APPROACH)
STA. 74+74.52

DRWY 109
PRIVATE
15' WIDE
(PAVED APPROACH)
STA. 74+08.14

+67.61 75.00'RT
+25.01 75.00'RT
EXIST. 25' PERM. MODOT DRAINAGE ESMT.
+37.61 75.00'RT
+37.63 50.00'RT
+29.70 75.00'RT
+11.96 50.00'RT
EXIST. R/W
+25.01 50.00'RT
+67.63 50.00'RT
6' SW
S.L.

MATCHLINE STA. 78+08.19

℄ R/W RTE. 231

RTE. 231 / KINGSTON DR

S 36°42'27" W

MATCHLINE STA. 73+08.19

EXIST. R/W — T.C.E. — EXIST. R/W — +50.48 40.00' LT — +50.48 50.00' LT — +24.99 40.00' LT — S.L. — +14.99 40.00' LT — T.C.E. — +06.26 40.00' LT — +06.26 43.00' LT — T.C.E. — +34.84 40.00' LT — +34.84 43.00' LT — EXIST. R/W

+24.99 80.00' LT
EXIST. PERM. MODOT DRAINAGE ESMT.
+59.99 79.99' LT
+59.99 95.00' LT
+14.99 95.00' LT
EXIST. PERM. MODOT DRAINAGE ESMT.

U.S. SURVEY NO. 904
U.S. SURVEY NO. 3340

COMMERCAIL ENTRANCE 104
STA. +39.96
TYPE 1 DRIVEWAY
CONC. PAVED APPROACH
28.9' WIDTH (28.9' EXIST. WIDTH)
6' LENGTH L.T.

COMMERCIAL ENTRANCE 108
STA. +19.72
TYPE 1 DRIVEWAY
CONC PAVED APPROACH
29.6' WIDTH (30.8' EXIST. WIDTH)
7' LENGTH L.T.

COMMERCIAL ENTRANCE 110
STA. +55.93
TYPE 1 DRIVEWAY
CONC. PAVED APPROACH
26.5' WIDTH (30.2' EXIST. WIDTH)
8' LENGTH L.T.

KINGSTON AUTOMOTIVE SERVICE

(32)
28G410842
160 KINGSTON DR
N/F
TIERRA ASSET MANAGEMENT, LLC, KINGSTON DRIVE SJS, LLC, AD KINGSTON DRIVE, LLC AND CREATIVE VISION HOMES, LLC
DEED DOCUMENT 022033100060
(PARCEL 2)
(SEE PREVIOUS SHEET FOR R/W INFORMATION)

HILLSIDE APARTMENTS

VACANT (FORMERLY CAR WASH)

(33)
28G410189
150 KINGSTON DR
N/F
MR YUMMY'S ENTERPRISES, LLC
DB 25188 PG 40
EXISTING = 0.400 ACRES
TEMP. CONSTRUCTION ESMT. = 0.005 ACRES (214 SF)
REMAINDER = 0.400 ACRES

(34)
28G410299
120 KINGSTON DR
N/F
ZERILLI, JOSEPH A. & LESLIE A., H/W
DB 13039 PG 2316
EXISTING = 0.570 ACRES
TEMP. CONSTRUCTION ESMT. = 0.009 ACRES (390 SF)
REMAINDER = 0.570 ACRES

PARCEL 33 - T.C.E.		
PT-PT	STATION AND OFFSET	LENGTH AND BEARING
(EO)(ER)	74+06.26 40.00' LT TO 73+34.84 40.00' LT	71.42' N 36°42'27" E
(ER)(ES)	73+34.84 40.00' LT TO 73+34.84 43.00' LT	3.00' S 53°22'59" E
(ES)(ET)	73+34.84 43.00' LT TO 74+06.26 43.00' LT	71.43' S 36°42'27" W
(ET)(EO)	74+06.26 43.00' LT TO 74+06.26 40.00' LT	3.00' N 53°17'33" W

PARCEL 34 - T.C.E.		
PT-PT	STATION AND OFFSET	LENGTH AND BEARING
(ER)(EU)	73+34.84 40.00' LT TO 72+04.72 40.00' LT	130.12' N 36°42'27" E
(EU)(EV)	72+04.72 40.00' LT TO 72+04.72 43.00' LT	3.00' S 53°17'33" E
(EV)(ES)	72+04.72 43.00' LT TO 73+34.84 43.00' LT	130.11' S 36°42'27" W
(ES)(ER)	73+34.84 43.00' LT TO 73+34.84 40.00' LT	3.00' N 53°22'59" W

GENERAL NOTES:
1. SEE NOTES ON ROW PLAN SHEET 1 OF 31.

LAYOUT	NS	01/2025
DRAWN	SMC	01/2025
REVIEWED	DJK	01/2025

ROW PLAN SHEETS
SHEET 16 OF 31

STATE OF MISSOURI
DENNIS J KOSCIELSKI
NUMBER PE-2005000712
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED
7/15/2025

ROUTE	STATE
231	MO
DISTRICT	SHEET NO.
SL	50

COUNTY
ST. LOUIS

JOB NO.
J6S3631

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION	DATE

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

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PAVEMENT LEGEND

- PROPOSED SIDEWALK
- COLDMILLING BITUMINOUS PAVEMENT
- FULL DEPTH PAVEMENT, REMOVE AND REPLACE
- DRIVEWAY, REMOVE AND REPLACE
- ADA RAMP

U.S. SURVEY NO. 904

DISCLAIMER
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SCALE
0 20 40 60

28G410442
143 KINGSTON DR
N/F
143 KINGSTON DRIVE LLC
DB 22155 PG 490
NO ACQUISITION

28G410486
139 KINGSTON DR
N/F
SMICK, DAWN
DB 18667 PG 39
NO ACQUISITION

28G410541
135 KINGSTON DR
N/F
TETTAMBLE, THOMAS O. & MARYLOU
DB 6941 PG 2334
NO ACQUISITION

28G410596
131 KINGSTON DR
N/F
FINK, KATIE L.
DB 22434 PG 1663
NO ACQUISITION

28G430044
127 KINGSTON DR
N/F
MANESTAR, GLORIA & AMANDA
DB 22383 PG 864
NO ACQUISITION

28G430099
123 KINGSTON DR
N/F
TOPPINS, KARL W. & MUSGRAVE, DOROTHY L.
DB 17360 PG 3948
NO ACQUISITION

28G430165
119 KINGSTON DR
N/F
REEVES, KURTIS M. & AMANDA R., H/W
DB 17584 PG 2622
NO ACQUISITION

28G430211
115 KINGSTON DR
N/F
115 KINGSTON DRIVE LLC
DB 22155 PG 493
NO ACQUISITION

28G430275
111 KINGSTON DR
N/F
RICHARDSON, MICHAEL T. & CYNTHIA K., H/W
DB 15580 PG 1968
NO ACQUISITION

28G430330
107 KINGSTON DR
N/F
YOUNG, STEPHANIE E.
DB 25032 PG 289
NO ACQUISITION

DRWY 111
PRIVATE
22' WIDE
(PAVED APPROACH)
STA. 73+07.46

DRWY 113
PRIVATE
18' WIDE
(PAVED APPROACH)
STA. 72+07.93

DRWY 115
PRIVATE
16' WIDE
(PAVED APPROACH)
STA. 71+08.87

DRWY 116
PRIVATE
16' WIDE
(PAVED APPROACH)
STA. 70+08.89

DRWY 117
PRIVATE
16' WIDE
(PAVED APPROACH)
STA. 69+08.51

DRWY 118
PRIVATE
11' WIDE
(PAVED APPROACH)
STA. 68+11.63

EXIST. R/W

MATCHLINE
STA. 73+08.19

MATCHLINE
STA. 68+08.19

℄ R/W RTE. 231

S 36°42'27" W

N 52°10'8" E

RTE. 231 / KINGSTON DR

KINGSTON AUTOMOTIVE SERVICE

28G410299
120 KINGSTON DR
N/F
ZERILLI, JOSEPH A. & LESLIE A., H/W
DB 13039 PG 2316
(SEE PREVIOUS SHEET FOR R/W INFORMATION)

COMMERCIAL ENTRANCE 112
STA. +76.57
TYPE 1 DRIVEWAY
CONC. PAVED APPROACH
57.8' WIDTH (60.0' EXIST. WIDTH)
8' LENGTH L.T.

COMMERCIAL ENTRANCE 114
STA. +76.57
TYPE 1 DRIVEWAY
CONC. PAVED APPROACH
58.6' WIDTH (59.1' EXIST. WIDTH)
7' LENGTH L.T.

+04.72
40.00' LT (EL)

+04.72
43.00' LT (EV)

+33.01
40.00' LT

+08.27
74.68' LT

+28.05
53.49' LT

+56.51
44.10' LT

+25.68
40.72' LT

+19.00
50.00' LT

FOUND IRON ROD WITH CAP "COUNTY H/T" AT THE SOUTHWEST CORNER OF DEED BOOK 8882 PAGE 1517 AS SHOWN ON A BOUNDARY SURVEY OF PART OF CARLAT PLACE AND U.S. SURVEY 904 IN U.S. SURVEY 904, TOWNSHIP 44 NORTH, RANGE 7 EAST, IN ST. LOUIS COUNTY, MISSOURI, AS PERFORMED BY ST. LOUIS COUNTY HIGHWAYS AND TRAFFIC AS CHT2011-50.

28G432112
9955 S BROADWAY ST
N/F
ST. LOUIS COUNTY DEPT. OF PARKS AND RECREATION
DB 8882 PG 1517
NO ACQUISITION

28G432112
9955 S BROADWAY ST
N/F
ST. LOUIS COUNTY
DB 8672 PG 1717
NO ACQUISITION

28G432112
9955 S BROADWAY ST
N/F
ST. LOUIS COUNTY
DB 9107 PG 2018
NO ACQUISITION

28G432112
9955 S BROADWAY ST
N/F
ST. LOUIS COUNTY
DB 8874 PG 2209
NO ACQUISITION

28G432112
9955 S BROADWAY ST
N/F
ST. LOUIS COUNTY DEPT. OF PARKS AND RECREATION
DB 9759 PG 611
NO ACQUISITION

28G432112
9955 S BROADWAY ST
N/F
ST. LOUIS COUNTY
DB 8907 PG 1986
NO ACQUISITION

28G432112
9955 S BROADWAY ST
N/F
ST. LOUIS COUNTY
DB 9141 PG 745
NO ACQUISITION

WINDING AVE (ABANDONED IN PLACE)

GENERAL NOTES:
1. SEE NOTES ON ROW PLAN SHEET 1 OF 31.

ROW PLAN SHEETS
SHEET 17 OF 31

LAYOUT	NS	01/2025
DRAWN	SMC	01/2025
REVIEWED	DJK	01/2025

STATE OF MISSOURI
DENNIS J KOSCIELSKI
NUMBER PE-2005000712
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED
7/15/2025

ROUTE	STATE
231	MO
DISTRICT	SHEET NO.
SL	51

COUNTY
ST. LOUIS

JOB NO.
J6S3631

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DATE	DESCRIPTION

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

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PARCEL 35 - T.C.E.		
PT-PT	STATION AND OFFSET	LENGTH AND BEARING
NX NY	64+26.16 34.12' RT TO 64+26.06 42.12' RT	8.00' N 73°22'52" W
NY NZ	64+26.06 42.12' RT TO 64+10.82 41.69' RT	R= 523.50', T= 7.07' L= 14.14', D= 35°54'28"
NZ OA	64+10.82 41.69' RT TO 64+08.69 33.63' RT	8.30' S 89°31'03" E
OA NX	64+08.69 33.63' RT TO 64+26.16 34.12' RT	R= 531.50', T= 8.22' L= 16.44', D= 35°22'03"

PARCEL 36 - T.C.E.		
PT-PT	STATION AND OFFSET	LENGTH AND BEARING
OA NZ	64+08.69 33.63' RT TO 64+10.82 41.69' RT	8.30' N 89°31'03" W
NZ OB	64+10.82 41.69' RT TO 63+79.92 40.84' RT	R= 523.50', T= 14.35' L= 28.68', D= 35°54'28"
OB OC	63+79.92 40.84' RT TO 63+80.05 38.35' RT	2.50' S 75°52'43" E
OC EW	63+80.05 38.35' RT TO 63+77.01 38.26' RT	R= 526.00', T= 1.42' L= 2.84', D= 35°44'14"
EW OD	63+77.01 38.26' RT TO 63+75.91 32.73' RT	5.63' S 89°31'03" E
OD OA	63+75.91 32.73' RT TO 64+08.69 33.63' RT	R= 531.50', T= 15.45' L= 30.89', D= 35°22'03"

PAVEMENT LEGEND

- PROPOSED SIDEWALK
- COLDMILLING BITUMINOUS PAVEMENT
- FULL DEPTH PAVEMENT, REMOVE AND REPLACE
- DRIVEWAY, REMOVE AND REPLACE
- ADA RAMP

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SCALE
0 20 40 60
U.S. SURVEY NO. 904

MATCHLINE STA. 68+08.19

+03.20 170.00'RT

28G430374 101 KINGSTON DR N/F YATES, DORIS J. DB 8083 PG 909 *NO ACQUISITION*

DRWY 119 PRIVATE 10' WIDE (PAVED APPROACH) STA. 67+62.27

+36.07 78.37'RT

+76.01 50.00'RT

EXIST. R/W

28G430413 101 KINGSTON DR A N/F C & E PROPERTY LLC DOC # 202302140245 *NO ACQUISITION*

+38.28 40.00'RT

+10.19 59.95'RT

+95.57 40.00'RT

+58.38 40.00'RT

+14.54 39.71'RT

DRWY 120 COMMERCIAL 33' WIDE (PAVED APPROACH) STA. 66+16.91

28G430572 9939 S BROADWAY ST N/F C & E PROPERTY LLC DB 24315 PG 829 *NO ACQUISITION*

DRWY 122 COMMERCIAL 31' WIDE (PAVED APPROACH) STA. 65+11.97

36 28G432024 9929 S BROADWAY ST N/F LEMAY HOMES, LLC DB 21668 PG 967 *EXISTING = 0.090 ACRES TEMP. CONSTRUCTION ESMT. = 0.006 ACRES (241 SF) REMAINDER = 0.090 ACRES*

35 28G432101 9931 S BROADWAY ST N/F LEMAY HOMES, LLC DB 21676 PG 1913 *EXISTING = 0.170 ACRES TEMP. CONSTRUCTION ESMT. = 0.003 ACRES (122 SF) REMAINDER = 0.170 ACRES*

37 28G430853 9927 S BROADWAY ST N/F CLEVELAND, JUSTIN J. DEED DOCUMENT 2022060300583 *EXISTING = 0.209 ACRES TEMP. CONSTRUCTION ESMT. = 0.008 ACRES (361 SF) REMAINDER = 0.209 ACRES*

28G432035 9925 S BROADWAY ST N/F CLEVELAND, JUSTIN J. DOC # 2022060300581 *NO ACQUISITION*

PRIVATE ENTRANCE 125 STA. +68.47 TYPE 1 DRIVEWAY CONC. PAVED APPROACH 14.8' WIDTH (9.4' EXIST. WIDTH) 7' LENGTH R.T.

DRWY 127 PRIVATE 13' WIDE (PAVED APPROACH) STA. 63+00.06

COMMERCIAL ENTRANCE 123 STA. +63.40 TYPE 1 DRIVEWAY CONC. PAVED APPROACH 20.5' WIDTH (20.5' EXIST. WIDTH) 8' LENGTH R.T.

+77.01 38.26'RT
+79.92 40.84'RT
+80.05 38.35'RT
+75.91 32.73'RT
T.C.E.
+51.56 37.59'RT
+10.82 41.69'RT
+08.69 33.63'RT
+26.06 42.12'RT
+26.16 34.12'RT
+50.15 38.43'RT
+22.41 33.83'RT
+22.35 40.33'RT
+04.61 39.89'RT
T.C.E.
+46.36 34.45'RT
+04.05 30.87'RT
T.C.E.

EQUATION: STA. 66+33.42 BK = STA. 66+45.55 AHD

PT STA. 66+45.55

RTE. 231 / S BROADWAY ST

℄ R/W RTE. 231 S 36°42'27" W

+00.00 50.00'LT

28G432112 9955 S BROADWAY ST N/F ST. LOUIS COUNTY DEPT. OF PARKS AND RECREATION DB 8882 PG 1517 *NO ACQUISITION*

28G432112 9955 S BROADWAY ST N/F ST. LOUIS COUNTY DB 8672 PG 1717 *NO ACQUISITION*

+14.59 127.24'LT

+37.72 162.66'LT

℄ S BROADWAY

+53.57 108.88'LT

+75.41 123.39'LT

DRWY 121 COMMERCIAL 38' WIDE (PAVED APPROACH) STA. 65+42.30

28G441242 9942 S BROADWAY ST N/F ODD FELLOWS CEMETERY ASSOCIATION DB UNKNOWN *NO ACQUISITION*

28G441484 9940 S BROADWAY ST N/F BOSNIAN ISLAMIC CENTER OF ST. LOUIS DB 20424 PG 544 *NO ACQUISITION*

28G441198 9930 S BROADWAY ST N/F JANABI, AYMEN A. DB 23204 PG 1479 *NO ACQUISITION*

SAM AUTO SALE LLC

DRWY 124 COMMERCIAL 35' WIDE (PAVED APPROACH) STA. 64+32.84

DRWY 126 COMMERCIAL 22' WIDE (PAVED APPROACH) STA. 63+00.28

PI 64+60.41
PC 62+75.25
PT 66+45.55
Δ 35°49'00" (RT)
D 10°00'00"
L 358.17' (ARC)
T 185.15'
R 572.96'

PARCEL 37 - T.C.E.		
PT-PT	STATION AND OFFSET	LENGTH AND BEARING
OD EW	63+75.91 32.73' RT TO 63+77.01 38.26' RT	5.63' N 89°31'03" W
EW OE	63+77.01 38.26' RT TO 63+51.56 37.59' RT	R= 526.00', T= 11.89' L= 23.77', D= 35°44'14"
OE EX	63+51.56 37.59' RT TO 63+50.15 38.43' RT	1.57' N 24°07'02" W
EX EY	63+50.15 38.43' RT TO 63+46.36 34.45' RT	5.33' N 56°29'14" E
EY EZ	63+46.36 34.45' RT TO 63+22.41 33.83' RT	R= 529.00', T= 11.27' L= 22.54', D= 35°32'04"
EZ FA	63+22.41 33.83' RT TO 63+22.35 40.33' RT	6.50' N 83°55'45" W
FA OF	63+22.35 40.33' RT TO 63+04.61 39.89' RT	R= 522.50', T= 8.26' L= 16.51', D= 35°58'36"
OF OG	63+04.61 39.89' RT TO 63+04.05 30.87' RT	9.03' S 89°31'03" E
OG OD	63+04.05 30.87' RT TO 63+75.91 32.73' RT	R= 531.50', T= 34.00' L= 67.90', D= 35°22'03"

GENERAL NOTES:
1. SEE NOTES ON ROW PLAN SHEET 1 OF 31.

ROW PLAN SHEETS
SHEET 18 OF 31

LAYOUT	NS	01/2025
DRAWN	SMC	01/2025
REVIEWED	DJK	01/2025

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STATE OF MISSOURI
DENNIS J. KOSCIELSKI
NUMBER PE-2005000712
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED 7/15/2025

ROUTE	STATE
231	MO
DISTRICT	SHEET NO.
SL	52

COUNTY ST. LOUIS
JOB NO. J6S3631
CONTRACT ID.
PROJECT NO.
BRIDGE NO.

DESCRIPTION	DATE

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
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PARCEL 38 - T.C.E.		
PT-PT	STATION AND OFFSET	LENGTH AND BEARING
FB FC	59+79.23 30.00' RT TO 59+75.05 34.50' RT	6.14' N 46°14'08" W
FC FD	59+75.05 34.50' RT TO 59+55.78 34.50' RT	19.27' N 00°53'27" E
FD FE	59+55.78 34.50' RT TO 59+71.68 30.00' RT	16.52' S 14°54'55" E
FE FB	59+71.68 30.00' RT TO 59+79.23 30.00' RT	7.55' S 00°53'27" W

PARCEL 38 - PERMANENT EASEMENT		
PT-PT	STATION AND OFFSET	LENGTH AND BEARING
FF FI	59+48.78 36.48' RT TO 59+48.92 59.63' RT	23.15' N 89°26'33" W
FI FJ	59+48.92 59.63' RT TO 59+44.92 59.65' RT	4.00' N 00°33'27" E
FJ FG	59+44.92 59.65' RT TO 59+44.79 37.61' RT	22.04' S 89°26'33" E
FG FF	59+44.79 37.61' RT TO 59+48.78 36.48' RT	4.15' S 14°54'56" E

PARCEL 38 - NEW R/W		
PT-PT	STATION AND OFFSET	LENGTH AND BEARING
FE FD	59+71.68 30.00' RT TO 59+55.78 34.50' RT	16.52' N 14°54'56" W
FD FF	59+55.78 34.50' RT TO 59+48.78 36.48' RT	7.27' N 14°54'56" W
FF FG	59+48.78 36.48' RT TO 59+44.79 37.61' RT	4.15' N 14°54'56" W
FG FH	59+44.79 37.61' RT TO 59+44.75 30.00' RT	7.61' S 89°26'33" E
FH FE	59+44.75 30.00' RT TO 59+71.68 30.00' RT	26.93' S 00°53'27" W

PARCEL 39 - NEW R/W		
PT-PT	STATION AND OFFSET	LENGTH AND BEARING
FK FL	58+84.75 30.00' RT TO 58+84.80 38.94' RT	8.94' N 89°26'33" W
FL FM	58+84.80 38.94' RT TO 58+71.55 30.00' RT	15.98' N 34°54'14" E
FM FK	58+71.55 30.00' RT TO 58+84.75 30.00' RT	13.19' S 00°53'27" W

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U.S. SURVEY NO. 904

SCALE 0 20 40 60

28G432035 9925 S BROADWAY ST N/F CLEVELAND, JUSTIN J. DOC # 2022060300581 NO ACQUISITION

28G431034 9925 S BROADWAY ST N/F CLEVELAND, JUSTIN J. DOC # 2022060300581 NO ACQUISITION

DRWY 129 PRIVATE 13' WIDE (PAVED APPROACH) STA. 61+95.90

28G431111 9917 S BROADWAY ST N/F HOUSE 7 LLC DB 23130 PG 2504 NO ACQUISITION

28G431287 9911 S BROADWAY ST N/F THE ALVIN L. LASHMAN & CHARLOTTE A. LASHMAN REVOCABLE TRUST DB 13858 PG 1295 NO ACQUISITION

28G431210 9915 S BROADWAY ST N/F THE ALVIN L. LASHMAN & CHARLOTTE A. LASHMAN REVOCABLE TRUST DB 13858 PG 1298 NO ACQUISITION

DRWY 132 PRIVATE 20' WIDE (PAVED APPROACH) STA. 60+69.64

28G431843 9905 S BROADWAY ST N/F LEMAY HOMES LLC DB 20718 PG 119 NO ACQUISITION

(38) 28G431834 9901 S BROADWAY ST N/F LEMAY HOMES, LLC DB 20718 PG 119 (PARCEL 1) EXISTING = 0.139 ACRES NEW R/W = 0.002 ACRES (103 SF) TEMP. CONSTRUCTION ESMT. = 0.001 ACRES (60 SF) PERM. ESMT. = 0.002 ACRES (90 SF) REMAINDER = 0.137 ACRES

28G431852 9851 S BROADWAY ST N/F ST. LOUIS COUNTY PORT AUTHORITY DOC # 2022091200410 NO ACQUISITION

(39) 28G431861 9853 S BROADWAY ST N/F HANCOCK PLACE SCHOOL DISTRICT DEED DOCUMENT 2022091200410 EXISTING = 0.125 ACRES NEW R/W = 0.001 ACRES (59 SF) REMAINDER = 0.124 ACRES

28G431683 9847 S BROADWAY ST N/F ALLBRITE AUTO CLEANUP INC. DB 17745 PG 4685 NO ACQUISITION

ALL BRITE AUTO CLEANUP

COMMERCIAL ENTRANCE 134 STA. +12.60 TYPE 1 DRIVEWAY CONC. PAVED APPROACH 12.0' WIDTH (12.0' EXIST. WIDTH) 7' LENGTH R.T.

RIPA AVE

MATCHLINE STA. 62+71.05

MATCHLINE STA. 57+71.05

RTE. 231 / S BROADWAY ST

℄ R/W RTE. 231

S 00°53'27" W

+44.92 59.65' RT S.L. +48.92 59.63' RT +44.79 37.61' RT +48.78 36.48' RT +44.75 30.00' RT NEW R/W +55.78 34.50' RT T.C.E. +75.05 34.50' RT +71.68 30.00' RT +79.23 30.00' RT +61.86 30.00' RT EXIST. R/W +68.10 30.00' LT +31.95 30.00' LT +96.95 30.00' LT +78.47 30.00' LT +74.45 30.00' LT +84.80 38.94' RT +84.75 30.00' RT +71.55 30.00' RT

28G441198 9930 S BROADWAY ST N/F JANABI, AYMEN A. DB 23204 PG 1479 NO ACQUISITION

SAM AUTO SALE LLC

28G440304 9920 S BROADWAY ST N/F FINKLANG, JAMES & ROHMAN, THERESA DB 23330 PG 64 NO ACQUISITION

DRWY 128 PRIVATE 14' WIDE (PAVED APPROACH) STA. 62+53.97

DRWY 130 PRIVATE 19' WIDE (PAVED APPROACH) STA. 61+77.59

28G440362 9916 S BROADWAY ST N/F 9916 S. BROADWAY LLC DB 24805 PG 81 NO ACQUISITION

28G440450 9912 S BROADWAY ST N/F KEMPLAND, THOMAS E. & BARBARA E., H/W DB 20710 PG 1553 NO ACQUISITION

REDISCOVER ANTIQUES & COLLECTIBLES

DRWY 131 COMMERCIAL 20' WIDE (PAVED APPROACH) STA. 60+99.16

COMMERCIAL ENTRANCE 133 STA. +59.62 TYPE 1 DRIVEWAY CONC. PAVED APPROACH (25.8' EXIST. WIDTH) 7' LENGTH L.T.

(40) 27G441451 9900 S BROADWAY ST N/F BEKIROV, BAYRAM, BEKIROV, KAMOL, & BEKIROV, RUSTAM DB 24656 PG 2883 EXISTING = 0.510 ACRES NEW R/W = 0.004 ACRES (195 SF) PERM. ESMT. = 0.002 ACRES (74 SF) REMAINDER = 0.506 ACRES

B MOTORS LLC

+68.97 30.00' LT +68.98 34.50' LT PERM. ESMT. +53.00 34.50' LT +34.91 39.89' LT PERM. ESMT. +31.90 40.79' LT +34.85 52.49' LT +31.85 52.49' LT +96.87 47.35' LT +85.66 36.42' LT +88.38 35.67' LT +85.66 51.17' LT +90.74 55.97' LT +90.74 62.27' LT +96.80 62.27' LT

27G121864 9828 S BROADWAY ST N/F THE INDUSTRIAL DEVELOPMENT AUTHORITY OF THE COUNTY OF ST. LOUIS, MISSOURI DB 17750 PG 3829 NO ACQUISITION

(41) 28G441462 9854 S BROADWAY ST N/F HANCOCK PLACE SCHOOL DISTRICT DEED DOCUMENT 2022091200410 (PARCEL 3, TRACT 1) EXISTING = 0.500 ACRES NEW R/W = 0.003 ACRES (127 SF) PERM. ESMT. = 0.005 ACRES (227 SF) REMAINDER = 0.497 ACRES

PERM. ESMT.

RIPA AVE

EXIST. R/W

PAVEMENT LEGEND

- PROPOSED SIDEWALK
- COLDMILLING BITUMINOUS PAVEMENT
- FULL DEPTH PAVEMENT, REMOVE AND REPLACE
- DRIVEWAY, REMOVE AND REPLACE
- ADA RAMP

PARCEL 40 - PERMANENT EASEMENT (1)		
PT-PT	STATION AND OFFSET	LENGTH AND BEARING
FN FO	59+68.97 30.00' LT TO 59+68.10 30.00' LT	0.87' N 00°53'27" E
FO FP	59+68.10 30.00' LT TO 59+53.00 34.50' LT	15.76' N 17°29'08" E
FP FQ	59+53.00 34.50' LT TO 59+68.98 34.50' LT	15.98' S 00°53'27" W
FQ FN	59+68.98 34.50' LT TO 59+68.97 30.00' LT	4.50' N 89°03'51" W

PARCEL 40 - PERMANENT EASEMENT (2)		
PT-PT	STATION AND OFFSET	LENGTH AND BEARING
FU FT	59+34.85 52.49' LT TO 59+34.91 39.89' LT	12.60' N 89°22'34" W
FT FS	59+34.91 39.89' LT TO 59+31.90 40.79' LT	3.14' N 17°29'08" E
FS FV	59+31.90 40.79' LT TO 59+31.85 52.49' LT	11.70' S 89°22'34" E
FV FU	59+31.85 52.49' LT TO 59+34.85 52.49' LT	3.00' S 00°53'27" W

PARCEL 40 - NEW R/W		
PT-PT	STATION AND OFFSET	LENGTH AND BEARING
FO FR	59+68.10 30.00' LT TO 59+31.95 30.00' LT	36.15' N 00°53'27" E
FR FS	59+31.95 30.00' LT TO 59+31.90 40.79' LT	10.79' S 89°22'34" E
FS FT	59+31.90 40.79' LT TO 59+34.91 39.89' LT	3.14' S 17°29'08" W
FT FP	59+34.91 39.89' LT TO 59+53.00 34.50' LT	18.88' S 17°29'08" W
FP FO	59+53.00 34.50' LT TO 59+68.10 30.00' LT	15.76' S 17°29'08" W

PARCEL 41 - NEW R/W		
PT-PT	STATION AND OFFSET	LENGTH AND BEARING
FW FX	58+96.87 47.35' LT TO 58+96.95 30.00' LT	17.35' N 89°22'34" W
FX FY	58+96.95 30.00' LT TO 58+78.47 30.00' LT	18.48' N 00°53'27" E
FY FZ	58+78.47 30.00' LT TO 58+88.38 35.67' LT	11.42' S 28°54'51" E
FZ FW	58+88.38 35.67' LT TO 58+96.87 47.35' LT	14.44' S 53°04'20" E

PARCEL 41 - PERMANENT EASEMENT		
PT-PT	STATION AND OFFSET	LENGTH AND BEARING
GA FW	58+96.80 62.27' LT TO 58+96.87 47.35' LT	14.92' N 89°22'34" W
FW FZ	58+96.87 47.35' LT TO 58+88.38 35.67' LT	14.44' N 53°04'20" W
FZ FY	58+88.38 35.67' LT TO 58+78.47 30.00' LT	11.42' N 28°54'51" W
FY GB	58+78.47 30.00' LT TO 58+74.45 30.00' LT	4.02' N 00°53'27" E
GB GC	58+74.45 30.00' LT TO 58+85.66 36.42' LT	12.92' S 28°54'51" E
GC GD	58+85.66 36.42' LT TO 58+85.66 51.17' LT	14.75' S 89°06'33" E
GD GE	58+85.66 51.17' LT TO 58+90.74 55.97' LT	7.00' S 42°29'42" E
GE GF	58+90.74 55.97' LT TO 58+90.74 62.27' LT	6.30' S 89°06'33" E
GF GA	58+90.74 62.27' LT TO 58+96.80 62.27' LT	6.06' S 00°53'27" W

GENERAL NOTES:
1. SEE NOTES ON ROW PLAN SHEET 1 OF 31.

LAYOUT	NS	01/2025
DRAWN	SMC	01/2025
REVIEWED	DJK	01/2025

STATE OF MISSOURI DENNIS J. KOSCIELSKI NUMBER PE-2005000712 PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED 7/15/2025

ROUTE	STATE
231	MO
DISTRICT	SHEET NO.
SL	53

COUNTY ST. LOUIS

JOB NO. J6S3631

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION	DATE

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

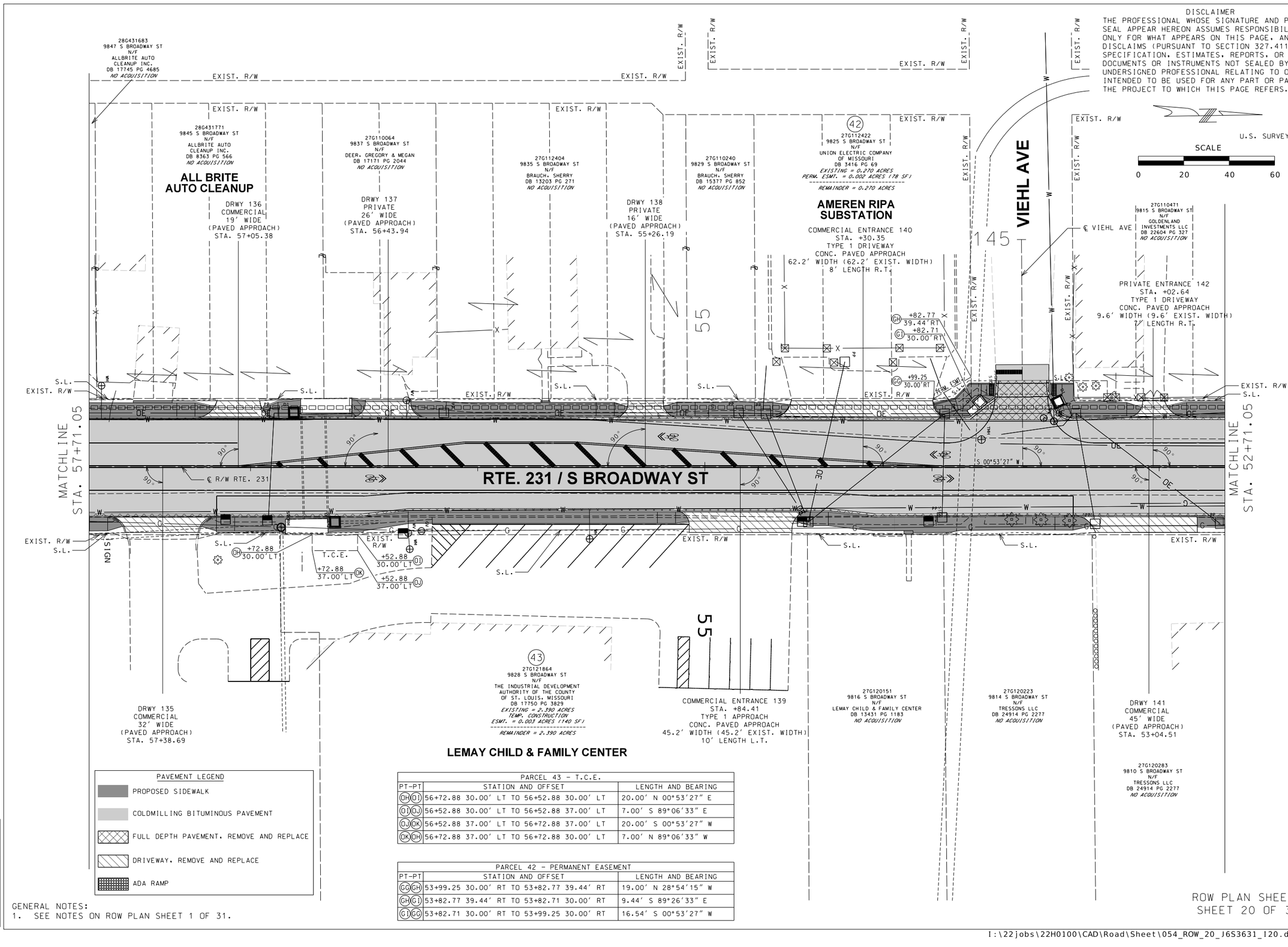
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ROW PLAN SHEETS
SHEET 19 OF 31

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PARCEL 43 - T.C.E.		
PT-PT	STATION AND OFFSET	LENGTH AND BEARING
(OH)(OI)	56+72.88 30.00' LT TO 56+52.88 30.00' LT	20.00' N 00°53'27" E
(OI)(OJ)	56+52.88 30.00' LT TO 56+52.88 37.00' LT	7.00' S 89°06'33" E
(OJ)(OK)	56+52.88 37.00' LT TO 56+72.88 37.00' LT	20.00' S 00°53'27" W
(OK)(OH)	56+72.88 37.00' LT TO 56+72.88 30.00' LT	7.00' N 89°06'33" W

PARCEL 42 - PERMANENT EASEMENT		
PT-PT	STATION AND OFFSET	LENGTH AND BEARING
(GG)(GH)	53+99.25 30.00' RT TO 53+82.77 39.44' RT	19.00' N 28°54'15" W
(GH)(GI)	53+82.77 39.44' RT TO 53+82.71 30.00' RT	9.44' S 89°26'33" E
(GI)(GG)	53+82.71 30.00' RT TO 53+99.25 30.00' RT	16.54' S 00°53'27" W

GENERAL NOTES:
1. SEE NOTES ON ROW PLAN SHEET 1 OF 31.

LAYOUT	NS	01/2025
DRAWN	SMC	01/2025
REVIEWED	DJK	01/2025

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STATE OF MISSOURI
DENNIS J KOSCIELSKI
NUMBER PE-2005000712
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED
7/15/2025

ROUTE	STATE
231	MO
DISTRICT	SHEET NO.
SL	54

COUNTY
ST. LOUIS

JOB NO.
J6S3631

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION	DATE

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
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JEFFERSON CITY, MO 65102
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ROW PLAN SHEETS
SHEET 20 OF 31

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PARCEL 47 - T.C.E.		
PT-PT	STATION AND OFFSET	LENGTH AND BEARING
GT GU	51+55.79 30.00' LT TO 51+52.80 30.00' LT	3.00' N 00°53'27" E
GU GV	51+52.80 30.00' LT TO 51+52.73 36.50' LT	6.50' S 89°40'20" E
GV GW	51+52.73 36.50' LT TO 51+55.79 36.50' LT	3.06' S 00°53'27" W
GW GT	51+55.79 36.50' LT TO 51+55.79 30.00' LT	6.50' N 89°06'33" W

PARCEL 47 - T.C.E.		
PT-PT	STATION AND OFFSET	LENGTH AND BEARING
GU GX	51+52.80 30.00' LT TO 51+02.79 30.00' LT	50.00' N 00°53'27" E
GX GY	51+02.79 30.00' LT TO 51+02.73 36.50' LT	6.50' S 89°40'20" E
GY GV	51+02.73 36.50' LT TO 51+52.73 36.50' LT	50.00' S 00°53'27" W
GV GU	51+52.73 36.50' LT TO 51+52.80 30.00' LT	6.50' N 89°40'20" W

PARCEL 44 - PERMANENT EASEMENT		
PT-PT	STATION AND OFFSET	LENGTH AND BEARING
GJ GK	50+87.63 30.00' RT TO 50+87.14 31.41' RT	1.49' N 69°59'57" W
GK GL	50+87.14 31.41' RT TO 50+81.31 36.00' RT	7.43' N 37°18'12" W
GL GM	50+81.31 36.00' RT TO 50+81.24 41.27' RT	5.27' N 88°25'04" W
GM GN	50+81.24 41.27' RT TO 50+79.87 41.28' RT	1.37' N 00°39'41" E
GN GO	50+79.87 41.28' RT TO 50+79.85 30.00' RT	11.28' S 89°12'33" E
GO GJ	50+79.85 30.00' RT TO 50+87.63 30.00' RT	7.78' S 00°53'27" W

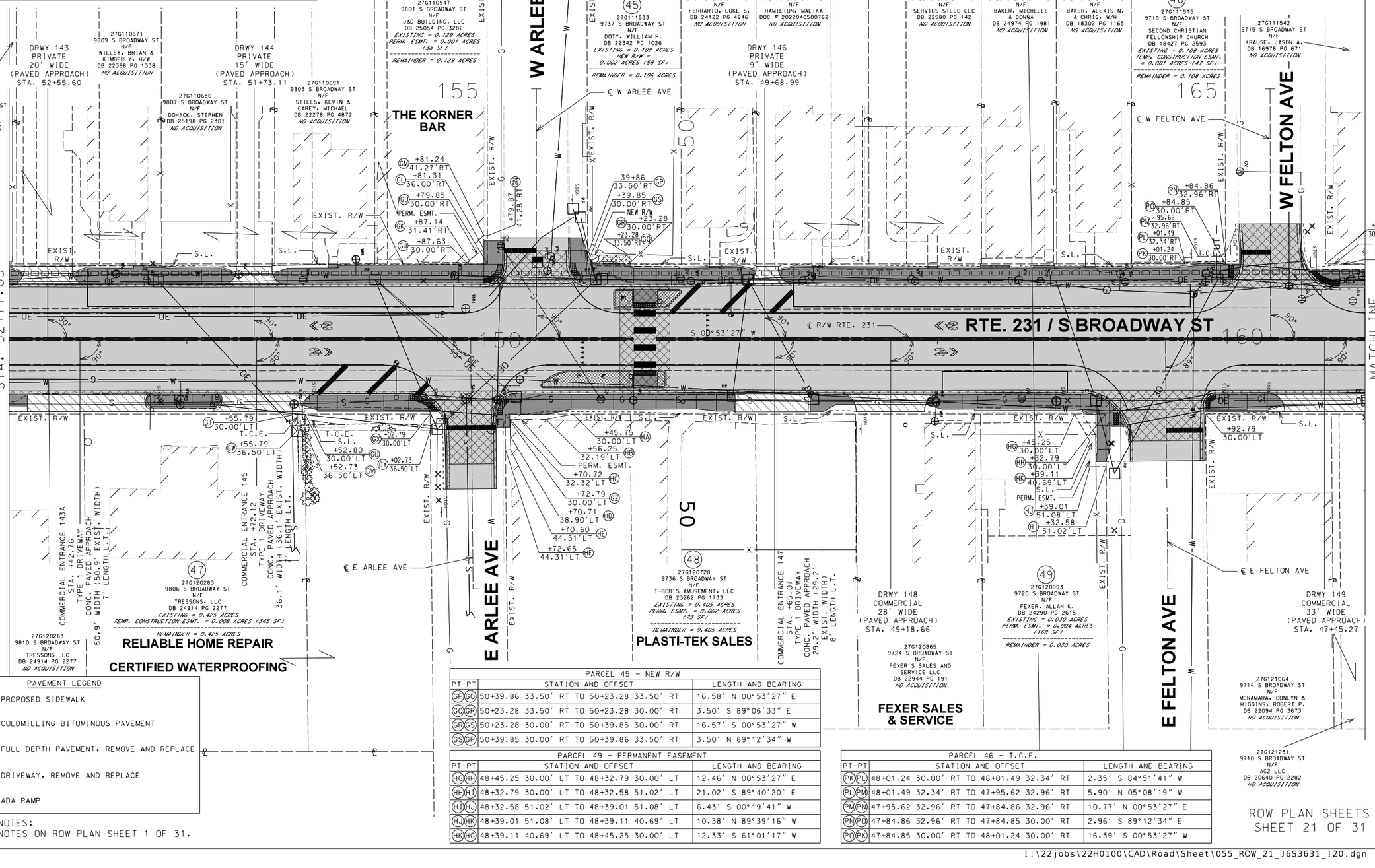
PARCEL 48 - PERMANENT EASEMENT		
PT-PT	STATION AND OFFSET	LENGTH AND BEARING
GZ HA	50+72.79 30.00' LT TO 50+45.75 30.00' LT	27.04' N 00°53'27" E
HA HB	50+45.75 30.00' LT TO 50+56.25 32.19' LT	10.72' S 10°53'41" E
HB HC	50+56.25 32.19' LT TO 50+70.72 32.32' LT	14.47' S 00°23'45" W
HC HD	50+70.72 32.32' LT TO 50+70.71 38.90' LT	6.57' S 89°09'15" E
HD HE	50+70.71 38.90' LT TO 50+70.60 44.31' LT	5.41' N 89°43'13" E
HE HF	50+70.60 44.31' LT TO 50+72.65 44.31' LT	2.05' S 00°50'45" W
HF GZ	50+72.65 44.31' LT TO 50+72.79 30.00' LT	14.31' N 89°40'20" W

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U.S. SURVEY NO. 904

SCALE 0 20 40 60



PARCEL 45 - NEW R/W		
PT-PT	STATION AND OFFSET	LENGTH AND BEARING
GP GO	50+39.86 33.50' RT TO 50+23.28 33.50' RT	16.58' N 00°53'27" E
GO GR	50+23.28 33.50' RT TO 50+23.28 30.00' RT	3.50' S 89°06'33" E
GR GS	50+23.28 30.00' RT TO 50+39.85 30.00' RT	16.57' S 00°53'27" W
GS GP	50+39.85 30.00' RT TO 50+39.86 33.50' RT	3.50' N 89°12'34" W

PARCEL 49 - PERMANENT EASEMENT		
PT-PT	STATION AND OFFSET	LENGTH AND BEARING
HG HH	48+45.25 30.00' LT TO 48+32.79 30.00' LT	12.46' N 00°53'27" E
HH HI	48+32.79 30.00' LT TO 48+32.58 51.02' LT	21.02' S 89°40'20" E
HI HJ	48+32.58 51.02' LT TO 48+39.01 51.08' LT	6.43' S 00°19'41" W
HJ HK	48+39.01 51.08' LT TO 48+39.11 40.69' LT	10.38' N 89°39'16" W
HK HG	48+39.11 40.69' LT TO 48+45.25 30.00' LT	12.33' S 61°01'17" W

PARCEL 46 - T.C.E.		
PT-PT	STATION AND OFFSET	LENGTH AND BEARING
PK FL	48+01.24 30.00' RT TO 48+01.49 32.34' RT	2.35' S 84°51'41" W
PL FM	48+01.49 32.34' RT TO 47+95.62 32.96' RT	5.90' N 05°08'19" W
PM PN	47+95.62 32.96' RT TO 47+84.86 32.96' RT	10.77' N 00°53'27" E
PN PO	47+84.86 32.96' RT TO 47+84.85 30.00' RT	2.96' S 89°12'34" E
PO PK	47+84.85 30.00' RT TO 48+01.24 30.00' RT	16.39' S 00°53'27" W

PAVEMENT LEGEND

- PROPOSED SIDEWALK
- COLDMILLING BITUMINOUS PAVEMENT
- FULL DEPTH PAVEMENT, REMOVE AND REPLACE
- DRIVEWAY, REMOVE AND REPLACE
- ADA RAMP

GENERAL NOTES:
1. SEE NOTES ON ROW PLAN SHEET 1 OF 31.

LAYOUT	NS	01/2025
DRAWN	SMC	01/2025
REVIEWED	DJK	01/2025

ROW PLAN SHEETS
SHEET 21 OF 31

STATE OF MISSOURI
DENNIS J. KOSCIELSKI
NUMBER PE-2005000712
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED 7/15/2025

ROUTE	STATE
231	MO
DISTRICT	SHEET NO.
SL	55

COUNTY ST. LOUIS
JOB NO. J6S3631
CONTRACT ID.
PROJECT NO.
BRIDGE NO.

DESCRIPTION	DATE

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

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PAVEMENT LEGEND

- PROPOSED SIDEWALK
- COLDMILLING BITUMINOUS PAVEMENT
- FULL DEPTH PAVEMENT, REMOVE AND REPLACE
- DRIVEWAY, REMOVE AND REPLACE
- ADA RAMP

PARCEL 50 - PERMANENT EASEMENT		
PT-PT	STATION AND OFFSET	LENGTH AND BEARING
(HL)(HM)	44+90.33 30.00' RT TO 44+90.34 52.00' RT	22.00' N 89°08'25" W
(HM)(HN)	44+90.34 52.00' RT TO 44+89.89 52.00' RT	0.45' N 00°53'27" E
(HN)(HO)	44+89.89 52.00' RT TO 44+89.85 30.00' RT	22.00' S 89°12'34" E
(HO)(HL)	44+89.85 30.00' RT TO 44+90.33 30.00' RT	0.48' S 00°53'27" W

U.S. SURVEY NO. 904

SCALE 0 20 40 60

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W LORETTA AVE

27G111582 9713 S BROADWAY ST N/F NELSON, MATTHEW DB 16978 PG 671 NO ACQUISITION

27G111753 9709 S BROADWAY ST N/F THIBAULT, SCOTT DB 24155 PG 77 NO ACQUISITION

27G112187 9705 S BROADWAY ST N/F YOUNG, STEPHAN R. DB 21832 PG 2234 NO ACQUISITION

50 27G112176 9701 S BROADWAY ST N/F THOMAS C. WHITE & DAWN M. WHITE, TRUSTEES DB 12422 PG 481 EXISTING = 0.150 ACRES PERM. ESMT. = 0.001 ACRES (10 SF) REMAINDER = 0.150 ACRES

27G111542 9715 S BROADWAY ST N/F KRAUSE, JASON A. DB 16978 PG 671 NO ACQUISITION

PRIVATE ENTRANCE 153 STA. +22.33 TYPE 1 DRIVEWAY CONC. PAVED APPROACH 9.9' WIDTH (9.9' EXIST. WIDTH) 9' LENGTH R.T.

27G132552 9625 S BROADWAY ST N/F VW ENTERPRISE LLC DB 25330 PG 3008 NO ACQUISITION

FITZ'S SERVICE INC

51 27G130444 9621 S BROADWAY ST N/F RAVEN LLC DEED DOCUMENT 202308070048 EXISTING = 0.194 ACRES NEW R/W = 0.001 ACRES (40 SF) REMAINDER = 0.193 ACRES

COMMERCIAL ENTRANCE 156 STA. +48.01 TYPE 1 DRIVEWAY CONC. PAVED APPROACH 30.1' WIDTH (30.1' EXIST. WIDTH) 8' LENGTH R.T.

INTEGRA FABRICATORS

RTE. 231 / S BROADWAY ST

℄ W LORETTA AVE

℄ R/W RTE. 231

S 00°53'27" W

MATCHLINE STA. 47+29.05

MATCHLINE STA. 42+21.05

+89.89 52.00' RT

+90.34 52.00' RT

+89.85 30.00' RT

+90.33 30.00' RT

+49.85 30.00' RT

+03.90 30.00' LT

+43.90 30.00' LT

+65.91 30.00' LT

+61.98 30.00' LT

+61.95 34.07' LT

+21.98 30.00' LT

+21.88 41.67' LT

PERM. ESMT.

EXIST. SW (UIP)

27G121231 9710 S BROADWAY ST N/F AC2 LLC DB 20640 PG 2282 NO ACQUISITION

DRWY 150 PRIVATE 11' WIDE (PAVED APPROACH) STA. 46+48.54

DRWY 151 PRIVATE 11' WIDE (PAVED APPROACH) STA. 46+17.83

DRWY 152 PRIVATE 12' WIDE (PAVED APPROACH) STA. 45+82.56

27G121383 9700 S BROADWAY ST N/F WEBER, GLENNON DB 24580 PG 257 NO ACQUISITION

27G121251 9708 S BROADWAY ST N/F UP&UP FUND II MO, LLC DB 25386 PG 321 NO ACQUISITION

27G121262 9706 S BROADWAY ST N/F WALDEN, GREGORY P. JR. DB 17745 PG 608 NO ACQUISITION

27G121372 9704 S BROADWAY ST N/F MORGAN, SANDRA DB 19649 PG 1486 NO ACQUISITION

℄ E LORETTA AVE

E LORETTA AVE

DRWY 154 COMMERCIAL 32' WIDE (PAVED APPROACH) STA. 44+73.82

DRWY 155 COMMERCIAL 10' WIDE (PAVED APPROACH) STA. 44+49.21

27G121442 9638 S BROADWAY ST N/F HAYALI, MOHANAD KADHIM AL DOC # 202206130028 NO ACQUISITION

STL DETAIL SOUTH

27G121581 9634 S BROADWAY ST N/F DEWITT, TONY A. DB 12183 PG 1372 NO ACQUISITION

TONY'S SEWER & DRAIN CO

27G140023 9632 S BROADWAY ST N/F KIBLER, JUDITH A. & PEIR, JARRY J. DB 16204 PG 2011 NO ACQUISITION

27G140032 9630 S BROADWAY ST N/F CLYNES, TIMOTHY & PAMELA, H/W DB 23397 PG 656 NO ACQUISITION

27G140094 9626 S BROADWAY ST N/F CLYNES, TIMOTHY & PAMELA, H/W DB 23397 PG 662 NO ACQUISITION

52 27G140252 9622 S BROADWAY ST N/F SINAK PROPERTIES LLC DB 20872 PG 196 EXISTING = 0.138 ACRES PERM. ESMT. = 0.001 ACRES (8 SF) REMAINDER = 0.138 ACRES

℄ E HOLDEN AVE

E HOLDEN AVE

EXIST. R/W

EXIST. S.L.

EXIST. STORM

EXIST. SAN

EXIST. W

EXIST. G

EXIST. OE

EXIST. UT

EXIST. PP

EXIST. X

PARCEL 52 - PERMANENT EASEMENT		
PT-PT	STATION AND OFFSET	LENGTH AND BEARING
(HP)(HQ)	42+65.91 30.00' LT TO 42+61.98 30.00' LT	3.93' N 00°53'27" E
(HQ)(HR)	42+61.98 30.00' LT TO 42+61.95 34.07' LT	4.07' S 89°35'33" E
(HR)(HP)	42+61.95 34.07' LT TO 42+65.91 30.00' LT	5.68' S 46°35'58" W

GENERAL NOTES:
1. SEE NOTES ON ROW PLAN SHEET 1 OF 31.

LAYOUT	NS	01/2025
DRAWN	SMC	01/2025
REVIEWED	DJK	01/2025

ROW PLAN SHEETS
SHEET 22 OF 31

STATE OF MISSOURI
DENNIS J KOSCIELSKI
NUMBER PE-2005000712
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED 7/15/2025

ROUTE	STATE
231	MO
DISTRICT	SHEET NO.
SL	56

COUNTY ST. LOUIS

JOB NO. J6S3631

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION	DATE

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
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PARCEL 53 – PERMANENT EASEMENT		
PT–PT	STATION AND OFFSET	LENGTH AND BEARING
HS–HT	42+21.98 30.00' LT TO 42+16.19 30.00' LT	5.79' N 00°53'27" E
HT–HU	42+16.19 30.00' LT TO 42+19.00 36.02' LT	6.64' S 64°04'08" E
HU–HV	42+19.00 36.02' LT TO 42+20.76 36.05' LT	1.76' S 00°05'13" E
HV–HW	42+20.76 36.05' LT TO 42+20.57 41.66' LT	5.62' N 88°58'46" E
HW–HX	42+20.57 41.66' LT TO 42+21.88 41.67' LT	1.31' S 00°23'58" W
HX–HS	42+21.88 41.67' LT TO 42+21.98 30.00' LT	11.67' N 89°35'33" W

PAVEMENT LEGEND

- PROPOSED SIDEWALK
- COLDMILLING BITUMINOUS PAVEMENT
- FULL DEPTH PAVEMENT, REMOVE AND REPLACE
- DRIVEWAY, REMOVE AND REPLACE
- ADA RAMP

SCALE

0 20 40 60

U.S. SURVEY NO. 904

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STATE OF MISSOURI
DENNIS J KOSCIELSKI
NUMBER PE-2005000712
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED 7/15/2025

ROUTE	STATE
231	MO
DISTRICT	SHEET NO.
SL	57

COUNTY ST. LOUIS

JOB NO. J6S3631

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

DESCRIPTION	DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

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Professional Engineer 001632
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314.770.0467

LAYOUT	NS	01/2025
DRAWN	SMC	01/2025
REVIEWED	DJK	01/2025

GENERAL NOTES:
1. SEE NOTES ON ROW PLAN SHEET 1 OF 31.

PARCEL 51 – NEW R/W		
PT–PT	STATION AND OFFSET	LENGTH AND BEARING
OO–OP	41+99.85 30.00' RT TO 41+99.86 38.00' RT	8.00' N 89°12'33" W
OP–OO	41+99.86 38.00' RT TO 41+94.86 38.00' RT	5.00' N 00°53'27" E
OO–OR	41+94.86 38.00' RT TO 41+94.85 30.00' RT	8.00' S 89°12'33" E
OR–OO	41+94.85 30.00' RT TO 41+99.85 30.00' RT	5.00' S 00°53'27" W

ROW PLAN SHEETS
SHEET 23 OF 31

I:\22jobs\22H0100\CAD\Road\Sheet\057_ROW_23_J6S3631_I20.dgn

PARCEL 54 - PERMANENT EASEMENT (1)		
PT-PT	STATION AND OFFSET	LENGTH AND BEARING
(HY)(HZ)	36+49.92 33.50' LT TO 36+41.68 33.50' LT	8.24' N 00°53'27" E
(HZ)(IA)	36+41.68 33.50' LT TO 36+45.54 39.77' LT	7.37' S 57°27'08" E
(IA)(IB)	36+45.54 39.77' LT TO 36+45.43 49.04' LT	9.27' S 89°47'49" E
(IB)(IC)	36+45.43 49.04' LT TO 36+49.76 49.08' LT	4.33' S 00°19'24" W
(IC)(HY)	36+49.76 49.08' LT TO 36+49.92 33.50' LT	15.59' N 89°40'37" W

PARCEL 54 - NEW R/W		
PT-PT	STATION AND OFFSET	LENGTH AND BEARING
(ID)(IE)	36+49.95 30.00' LT TO 36+26.96 30.00' LT	22.99' N 00°53'27" E
(IE)(IF)	36+26.96 30.00' LT TO 36+26.96 33.50' LT	3.50' S 89°06'33" E
(IF)(HZ)	36+26.96 33.50' LT TO 36+41.68 33.50' LT	14.72' S 00°53'27" W
(HZ)(HY)	36+41.68 33.50' LT TO 36+49.92 33.50' LT	8.24' S 00°53'27" W
(HY)(ID)	36+49.92 33.50' LT TO 36+49.95 30.00' LT	3.50' N 89°40'37" W

PARCEL 54 - PERMANENT EASEMENT (2)		
PT-PT	STATION AND OFFSET	LENGTH AND BEARING
(IE)(IG)	36+26.96 30.00' LT TO 36+14.85 30.00' LT	12.11' N 00°53'27" E
(IG)(IH)	36+14.85 30.00' LT TO 36+14.85 33.50' LT	3.50' S 89°06'33" E
(IH)(IF)	36+14.85 33.50' LT TO 36+26.96 33.50' LT	12.11' S 00°53'27" W
(IF)(IE)	36+26.96 33.50' LT TO 36+26.96 30.00' LT	3.50' N 89°06'33" W

U.S. SURVEY NO. 904

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SCALE
0 20 40 60

SOUTH BROADWAY LAUNDRY
544 CARS
DRWY 164 COMMERCIAL 39' WIDE (PAVED APPROACH) STA. 36+68.68
27G131443 9527 S BROADWAY ST N/F DELUXE CLEANING SERVICES INC DB 24310 PG 240 NO ACQUISITION
27G132561 9521 S BROADWAY ST N/F VALENTINE INC DB 16397 PG 22 NO ACQUISITION
℄ W ETTA AVE
W ETTA AVE
27G131700 9515 S BROADWAY ST N/F SHIELDS, CHRISTOPHER V. & NICOLE L. DB 20803 PG 207 NO ACQUISITION
27G132855 9509 S BROADWAY ST N/F CBO PROPERTY GROUP LLC DB 23192 PG 3759 NO ACQUISITION
27G131939 9507 S BROADWAY ST N/F GUMPERT, DONALD & MARILYN Z. DB 20729 PG 599 NO ACQUISITION
27G132053 9503 S BROADWAY ST N/F MEYER, STEVE & BETH, H/W DB 19392 PG 1070 NO ACQUISITION
27G132174 9501 S BROADWAY ST N/F QUAITE, DANNY J. & JENNIFER N., H/W DB 20460 PG 3919 NO ACQUISITION
W CARTWRIGHT AVE
27G132251 9459 S BROADWAY ST N/F DEWITT, ELLEN A. & DONALD E., H/W DB 17522 PG 1419 NO ACQUISITION
27G132295 9457 S BROADWAY ST N/F VIRGIN, VAN V. DOC # 202302080412 NO ACQUISITION
℄ W CARTWRIGHT AVE
RTE. 231 / S BROADWAY ST
S 00°53'27" W
℄ R/W RTE. 231
MATCHLINE STA. 37+21.05
MATCHLINE STA. 32+21.05
EXIST. R/W
S.L.
OE
W
G
+04.85 30.00'RT
+64.85 30.00'RT
+09.85 30.00'RT
+69.85 30.00'RT
+89.95 30.00'LT
+14.85 30.00'LT (IG)
+14.85 33.50'LT (IH)
NEW R/W
PERM. ESMT.
+26.96 30.00'LT (IE)
+26.96 33.50'LT (IF)
+41.68 33.50'LT (HZ)
+84.46 30.00'LT (II)
+84.46 32.00'LT (IL)
+45.54 39.77'LT (IA)
+49.95 30.00'LT (ID)
+45.43 49.04'LT (IB)
+49.92 33.50'LT (HY)
+49.76 49.08'LT (IC)
+69.79 30.00'LT (IM)
+69.79 32.00'LT (IN)
+82.62 30.00'LT (IJ)
+82.61 32.00'LT (IK)
+11.62 30.00'LT
+71.62 30.00'LT
℄ E ETTA AVE
E ETTA AVE
27G141251 9520 S BROADWAY ST N/F JESS-LIN PROPERTIES LLC DB 11792 PG 4521 NO ACQUISITION
PHIL'S AUTO & TIRE
PRIVATE ENTRANCE 165 STA. +76.85 TYPE 1 DRIVEWAY CONC. PAVED APPROACH 10.7' WIDTH (10.7' EXIST. WIDTH) 8' LENGTH L.T.
(54) 27G142214 9518 S BROADWAY ST N/F LEMAY HOMES I, LP DB 21574 PG 3830 EXISTING = 0.190 ACRES NEW R/W = 0.002 ACRES (80 SF) PERM. ESMT. = 0.003 ACRES (122 SF) TEMP. CONSTRUCTION ESMT. = 0.001 ACRES (4 SF)
REMAINDER = 0.188 ACRES
(55) 27G141480 9510 S BROADWAY ST N/F SUCHMAN, DAVID L. & REBECCA A., H/W DB 20046 PG 1489 EXISTING = 0.105 ACRES TEMP. CONSTRUCTION ESMT. = 0.001 ACRES (26 SF)
REMAINDER = 0.105 ACRES
27G141491 9508 S BROADWAY ST N/F BEHNEN, MITCHELL ET AL DB 23977 PG 1 NO ACQUISITION
DRWY 166 PRIVATE 12' WIDE (PAVED APPROACH) STA. 35+00.86
27G141509 9506 S BROADWAY ST N/F CORIC, ELVIR & EDINA, H/W DB 15197 PG 3179 NO ACQUISITION
℄ E CARTWRIGHT AVE
E CARTWRIGHT AVE
27G141655 9500 S BROADWAY ST N/F BOREK, THOMAS J. DB 23544 PG 3200 NO ACQUISITION
DRWY 167 PRIVATE 11' WIDE (PAVED APPROACH) STA. 33+37.21
DRWY 168 PRIVATE 7' WIDE (PAVED APPROACH) STA. 33+04.39
27G141701 9468 S BROADWAY ST N/F MEDLEY, LINDA & RUSSELL DB 13583 PG 670 NO ACQUISITION
27G141738 9466 S BROADWAY ST N/F BRIMICK PROPERTIES DB 7739 PG 758 NO ACQUISITION
27G141844 9462 S BROADWAY ST N/F RANDALL, JEFFREY K. & REGINA E., H/W DB 17077 PG 3368 NO ACQUISITION
27G141893 9460 S BROADWAY ST N/F MO HOUSING & REDEVELOPMENT LLC DB 21348 PG 991 NO ACQUISITION
(56) 27G142030 9458 S BROADWAY ST N/F O'DAY, EDWARD & O'DAY SUSAN DB 25412 PG 1953 EXISTING = 0.211 ACRES PERM. ESMT. = 0.002 ACRES (81 SF)
REMAINDER = 0.211 ACRES

PAVEMENT LEGEND
- PROPOSED SIDEWALK
- COLDMILLING BITUMINOUS PAVEMENT
- FULL DEPTH PAVEMENT, REMOVE AND REPLACE
- DRIVEWAY, REMOVE AND REPLACE
- ADA RAMP

PARCEL 54 - T.C.E.		
PT-PT	STATION AND OFFSET	LENGTH AND BEARING
(II)(IJ)	35+84.46 30.00' LT TO 35+82.62 30.00' LT	1.84' N 00°53'27" E
(IJ)(IK)	35+82.62 30.00' LT TO 35+82.61 32.00' LT	2.00' S 89°33'33" E
(IK)(IL)	35+82.61 32.00' LT TO 35+84.46 32.00' LT	1.86' S 00°53'27" W
(IL)(II)	35+84.46 32.00' LT TO 35+84.46 30.00' LT	2.00' N 89°06'33" W

PARCEL 55 - T.C.E.		
PT-PT	STATION AND OFFSET	LENGTH AND BEARING
(IJ)(IM)	35+82.62 30.00' LT TO 35+69.79 30.00' LT	12.83' N 00°53'27" E
(IM)(IN)	35+69.79 30.00' LT TO 35+69.79 32.00' LT	2.00' S 89°06'33" E
(IN)(IK)	35+69.79 32.00' LT TO 35+82.61 32.00' LT	12.81' S 00°53'27" W
(IK)(IJ)	35+82.61 32.00' LT TO 35+82.62 30.00' LT	2.00' N 89°33'33" W

GENERAL NOTES:
1. SEE NOTES ON ROW PLAN SHEET 1 OF 31.

ROW PLAN SHEETS
SHEET 24 OF 31

LAYOUT	NS	01/2025
DRAWN	SMC	01/2025
REVIEWED	DJK	01/2025

STATE OF MISSOURI
DENNIS J KOSCIELSKI
NUMBER PE-2005000712
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED 7/15/2025
ROUTE 231 | STATE MO
DISTRICT SL | SHEET NO. 58
COUNTY ST. LOUIS
JOB NO. J6S3631
CONTRACT ID.
PROJECT NO.
BRIDGE NO.

DESCRIPTION
DATE

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

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PARCEL 57 - T.C.E.		
PT-PT	STATION AND OFFSET	LENGTH AND BEARING
JA JB	29+91.94 67.04' RT TO 29+89.28 68.43' RT	3.00' N 00°47'27" E
JB JC	29+89.28 68.43' RT TO 29+70.84 33.00' RT	39.94' S 89°12'34" E
JC JD	29+70.84 33.00' RT TO 28+55.90 33.00' RT	114.94' N 28°17'20" E
JD JE	28+55.90 33.00' RT TO 28+41.89 30.00' RT	14.33' N 40°22'32" E
JE JF	28+41.89 30.00' RT TO 29+60.53 30.00' RT	118.64' S 28°17'20" W
JF JG	29+60.53 30.00' RT TO 29+78.27 40.77' RT	R= 20.00', T= 12.14' L= 21.82', D= 286°28'44"
JG JA	29+78.27 40.77' RT TO 29+91.94 67.04' RT	29.62' N 89°12'34" W

57
27G421287
9405 S BROADWAY ST
N/F
SCHOOL DISTRICT OF HANCOCK PLACE
DB 18328 PG 1791
EXISTING = 2.310 ACRES
TEMP. CONSTRUCTION ESMT. = 0.011 ACRES (467 SF)
REMAINDER = 2.310 ACRES

HANCOCK PLACE SCHOOL DISTRICT ADMINISTRATION CENTER

SCALE
0 20 40 60

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U.S. SURVEY NO. 904

VINCENT AVE
EXIST. R/W 30 M
℄ VINCENT AVE

27G412157
9439 S BROADWAY ST
N/F
DFSR PROPERTIES LLC
DB 23034 PG 1594
NO ACQUISITION

27G410144
9443 S BROADWAY ST
N/F
SERVIUS STLCO LLC
DB 22580 PG 183
NO ACQUISITION

27G410089
9451 S BROADWAY ST
N/F
HALE, SANDRA & JASON
DB 25302 PG 2129
NO ACQUISITION

27G410067
9453 S BROADWAY ST
N/F
NEWMAN, CASEY
DB 23708 PG 2072
NO ACQUISITION

27G132295
9457 S BROADWAY ST
N/F
VIRGIN, VAN V.
DOC # 2023020800412
NO ACQUISITION

27G132460
9455 S BROADWAY ST
N/F
VIRGIN, VAN V.
DOC # 2023020800412
NO ACQUISITION

+91.94 67.04'RT JA
+89.28 68.43'RT JB
+78.27 40.77'RT JC
+70.84 33.00'RT JC
+60.53 30.00'RT JF
+55.90 33.00'RT JD
+41.89 30.00'RT JE
+19.66 30.79'RT
+17.78 30.00'RT
+14.17 30.88'RT

RTE. 231 / S BROADWAY ST

℄ R/W RTE. 231
S 28°17'20" W
63°
S 00°53'27" W
90°
S 54°15'23" W
N74°26'10"E

P1 STA. 31+14.17
PT STA. 28+19.66
MATCHLINE STA. 32+22.50
MATCHLINE STA. 27+29.93

EXIST. R/W
T.C.E.
S.L.
W
OE
PP
ELEC MH
S/GM

PERM. ESMT.
+91.61 34.22'LT IX
+00.22 34.23'LT IY
+06.86 30.00'LT IU
+24.17 30.00'LT IT
+00.33 48.12'LT IZ
+52.38 30.00'LT IV
+52.29 31.05'LT IW
+11.45 30.00'LT
+60.83 40.65'LT
+81.01 30.00'LT IO
+74.17 30.00'LT IP
+76.58 42.04'LT IS
+76.50 52.09'LT IR
+74.00 52.07'LT IQ

58
27G420918
9442 S BROADWAY ST
N/F
KTTB, L.L.C.
DB 15448 PG 2201
EXISTING = 0.132 ACRES
PERM. ESMT. = 0.005 ACRES (226 SF)
REMAINDER = 0.132 ACRES

27G420561
9438 S BROADWAY ST
N/F
AM EDGE CONSTRUCTION LLC
DB 24760 PG 2349
NO ACQUISITION

27G420606
9436 S BROADWAY ST
N/F
BROADWAY LLC
DB 22155 PG 481
NO ACQUISITION

27G421375
9426 S BROADWAY ST
N/F
LEMAY HOMES I LP
DB 21574 PG 3823
NO ACQUISITION

27G421364
9418 S BROADWAY ST
N/F
LEMAY HOMES I LP
DB 21574 PG 3823
NO ACQUISITION

59
27G421353
9410 S BROADWAY ST
N/F
LEMAY HOMES I, LP
DB 21574 PG 3823 (PARCEL 34)
EXISTING = 0.140 ACRES
PERM. ESMT. = 0.006 ACRES (251 SF)
REMAINDER = 0.140 ACRES

FOUND CROSS AS SHOWN AT THE NORTHEAST CORNER OF LOT 3A OF THE BOUNDARY ADJUSTMENT PLAT OF LOTS 1-3, BLOCK 2, BOHN PLACE (PB. 25 PG. 53) & LOT 7, BLOCK 1, MANN'S ESTATES SUBDIVISION (PB. 10 PG. 15) AS RECORDED IN PB. 363 PG. 51 OF ST. LOUIS, COUNTY, MISSOURI.

MANN ST
EXIST. R/W
℄ MANN ST

56
27G142030
9458 S BROADWAY ST
N/F
O'DAY, EDWARD & O'DAY, SUSAN
DB 25412 PG 1953
(SEE PREVIOUS SHEET FOR R/W INFORMATION)

EXIST. R/W
EXIST. R/W

PAVEMENT LEGEND
- PROPOSED SIDEWALK
- COLDMILLING BITUMINOUS PAVEMENT
- FULL DEPTH PAVEMENT, REMOVE AND REPLACE
- DRIVEWAY, REMOVE AND REPLACE
- ADA RAMP

GENERAL NOTES:
1. SEE NOTES ON ROW PLAN SHEET 1 OF 31.

PARCEL 56 - PERMANENT EASEMENT		
PT-PT	STATION AND OFFSET	LENGTH AND BEARING
IO IP	31+81.01 30.00' LT TO 31+74.17 30.00' LT	6.84' N 00°53'27" E
IP IQ	31+74.17 30.00' LT TO 31+74.00 52.07' LT	22.07' S 89°33'05" E
IQ IR	31+74.00 52.07' LT TO 31+76.50 52.09' LT	2.50' S 00°26'55" W
IR IS	31+76.50 52.09' LT TO 31+76.58 42.04' LT	10.04' N 89°33'05" W
IS IO	31+76.58 42.04' LT TO 31+81.01 30.00' LT	12.83' S 70°40'59" W

PARCEL 58 - PERMANENT EASEMENT		
PT-PT	STATION AND OFFSET	LENGTH AND BEARING
IT IU	31+24.17 30.00' LT TO 31+06.86 30.00' LT	2.69' N 00°53'27" E
IU IV	31+06.86 30.00' LT TO 30+52.38 30.00' LT	54.48' N 28°17'20" E
IV IW	30+52.38 30.00' LT TO 30+52.29 31.05' LT	1.05' S 66°19'06" E
IW IX	30+52.29 31.05' LT TO 30+91.61 34.22' LT	39.45' S 23°40'54" W
IX IY	30+91.61 34.22' LT TO 31+00.22 34.23' LT	8.61' S 28°11'57" W
IY IZ	31+00.22 34.23' LT TO 31+00.33 48.12' LT	13.89' S 61°15'47" E
IZ IT	31+00.33 48.12' LT TO 31+24.17 30.00' LT	19.09' N 89°33'05" W

LAYOUT	NS	01/2025
DRAWN	SMC	01/2025
REVIEWED	DJK	01/2025

ROW PLAN SHEETS
SHEET 25 OF 31

STATE OF MISSOURI
DENNIS J. KOSCIELSKI
NUMBER PE-2005000712
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED
7/15/2025

ROUTE	STATE
231	MO
DISTRICT	SHEET NO.
SL	59

COUNTY
ST. LOUIS

JOB NO.
J6S3631

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DATE	DESCRIPTION

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
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PARCEL 60 - NEW R/W		
PT-PT	STATION AND OFFSET	LENGTH AND BEARING
PJ PH	25+18.99 48.36' RT TO 25+18.21 48.35' RT	0.79' N 54°42'23" E
PH PG	25+18.21 48.35' RT TO 25+12.35 37.40' RT	12.40' S 63°53'14" E
PG PF	25+12.35 37.40' RT TO 24+91.90 30.00' RT	21.74' N 74°08'29" E
PF PJ	24+91.90 30.00' RT TO 25+19.14 30.00' RT	27.24' S 54°15'23" W
PJ PI	25+19.14 30.00' RT TO 25+18.99 48.36' RT	18.36' N 35°17'37" W

PARCEL 60 - PERMANENT EASEMENT		
PT-PT	STATION AND OFFSET	LENGTH AND BEARING
PA PB	25+18.98 49.86' RT TO 25+15.60 49.83' RT	3.39' N 54°42'23" E
PB PC	25+15.60 49.83' RT TO 25+10.25 39.83' RT	11.35' S 63°53'14" E
PC PD	25+10.25 39.83' RT TO 24+87.41 31.56' RT	24.29' N 74°08'29" E
PD PE	24+87.41 31.56' RT TO 24+87.41 30.00' RT	1.56' S 35°26'29" E
PE PF	24+87.41 30.00' RT TO 24+91.90 30.00' RT	4.49' S 54°15'23" W
PF PG	24+91.90 30.00' RT TO 25+12.35 37.40' RT	21.74' S 74°08'29" W
PG PH	25+12.35 37.40' RT TO 25+18.21 48.35' RT	12.42' N 63°53'14" W
PH PI	25+18.21 48.35' RT TO 25+18.99 48.36' RT	0.79' S 54°42'23" W
PI PA	25+18.99 48.36' RT TO 25+18.98 49.86' RT	1.50' N 35°17'37" W

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U.S. SURVEY NO. 904

SCALE
0 20 40 60

57
27G421287
9405 S BROADWAY ST
N/F
SCHOOL DISTRICT OF HANCOCK PLACE
DB 18328 PG 1791
(SEE PREVIOUS SHEET FOR R/W INFORMATION)

HANCOCK PLACE SCHOOL DISTRICT ADMINISTRATION CENTER

DRWY 169
COMMERCIAL
27' WIDE
(PAVED APPROACH)
STA. 27+02.39

60
27G420990
260 HOFFMEISTER AVE
N/F
7-ELEVEN, INC
DB 19506 PG 1835
EXISTING = 0.388 ACRES
NEW R/W = 0.004 ACRES (167 SF)
PERM. ESMT. = 0.003 ACRES (111 SF)
REMAINDER = 0.384 ACRES

7-ELEVEN

COMMERCIAL ENTRANCE 173
STA. +44.74
TYPE 1 DRIVEWAY
CONC. PAVED APPROACH
28.0' WIDTH (28.0' EXIST. WIDTH)
7' LENGTH R.T.

MILITARY RD

℄ MILITARY RD

HOFFMEISTER AVE

27G421311
9365 S BROADWAY ST
N/F
ALRUBAYE, ALI
DB 24008 PG 2203
NO TAKING

A & O AUTO PLAZA

27G421276
9359 S BROADWAY ST
N/F
CCC LEMAY LLC
DB 13351 PG 2075
NO TAKING

RTE. 231 / S BROADWAY ST

℄ R/W RTE. 231

S 54°15'23" W

MATCHLINE
STA. 27+29.93

MATCHLINE
STA. 21+89.94

PERM. ESMT.
NEW R/W
EXIST. R/W
S.L.
OE
UT
PP

+63.98 49.84'RT
+83.98 30.00'RT
+18.98 49.86'RT (PA)
+18.21 48.35'RT (PH)
+15.60 49.83'RT (PB)
+12.35 37.40'RT (PG)
+10.25 39.83'RT (PC)
+87.41 31.56'RT (PD)
+49.40 30.00'RT
+18.99 48.36'RT (PJ)
+19.41 59.76'RT
+56.64 30.00'RT
+56.64 35.00'RT
+56.64 30.00'RT
+26.60 35.00'RT
+26.64 30.00'RT
+96.60 35.00'RT
+96.64 30.00'RT
+91.90 30.00'RT (PF)
+87.41 30.00'RT (PE)
+19.14 30.00'RT (PJ)

E GOETZ AVE

℄ E GOETZ AVE

230

25

235

240

59
27G421353
9410 S BROADWAY ST
N/F
LEMAY HOMES I, LP
DB 21574 PG 3823
(PARCEL 34)
(SEE PREVIOUS SHEET FOR R/W INFORMATION)

+18.49 42.63'LT (JH)
+01.03 43.45'LT (JJ)
+05.24 53.05'LT (JL)
+04.25 85.00'LT (JK)
+99.75 85.00'LT (JJ)

DRWY 170
COMMERCIAL
34' WIDE
(PAVED APPROACH)
STA. 26+02.45

27G421188
9406 S BROADWAY ST
N/F
ALL TYPE HYDRAULIC REPAIR INC
DB 8043 PG 1320
NO TAKING

C & K AUTO REPAIR

DRWY 171
COMMERCIAL
34' WIDE
(PAVED APPROACH)
STA. 25+56.15

27G421201
9400 S BROADWAY ST
N/F
JANM INC
DB 22346 PG 4404
NO TAKING

IN N OUT LIQUOR

DRWY 172
COMMERCIAL
33' WIDE
(PAVED APPROACH)
STA. 25+02.09

27G421221
9398 S BROADWAY ST
N/F
JANM INC
DB 22346 PG 4400
NO TAKING

+60.89 45.28'LT
+37.10 46.50'LT
+19.35 46.50'LT
+53.44 46.53'LT
+13.47 85.34'LT
+12.28 125.42'LT
+13.55 46.50'LT
+40.01 56.50'LT
+53.54 87.69'LT
+52.95 107.53'LT

EXIST. 10' PERM. ESMT. TO ST. LOUIS COUNTY WATER CO.

27G510080
9214 S BROADWAY ST
N/F
METROPOLITAN ST. LOUIS SEWER DISTRICT
DB 6305 PG 1288
NO TAKING

METROPOLITAN ST. LOUIS SEWER DISTRICT LEMAY PLANT

PAVEMENT LEGEND
- PROPOSED SIDEWALK
- COLDMILLING BITUMINOUS PAVEMENT
- FULL DEPTH PAVEMENT, REMOVE AND REPLACE
- DRIVEWAY, REMOVE AND REPLACE
- ADA RAMP

PARCEL 59 - PERMANENT EASEMENT		
PT-PT	STATION AND OFFSET	LENGTH AND BEARING
JH JJ	27+18.49 42.63' LT TO 27+01.03 43.45' LT	17.48' N 56°56'06" E
JJ JJ	27+01.03 43.45' LT TO 26+99.75 85.00' LT	41.57' S 37°30'28" E
JJ JK	26+99.75 85.00' LT TO 27+04.25 85.00' LT	4.50' S 54°15'23" W
JK JL	27+04.25 85.00' LT TO 27+05.24 53.05' LT	31.97' N 37°30'28" W
JL JH	27+05.24 53.05' LT TO 27+18.49 42.63' LT	16.85' N 87°35'03" W

GENERAL NOTES:
1. SEE NOTES ON ROW PLAN SHEET 1 OF 31.

ROW PLAN SHEETS
SHEET 26 OF 31

LAYOUT	NS	01/2025
DRAWN	SMC	01/2025
REVIEWED	DJK	01/2025

STATE OF MISSOURI
DENNIS KOSCIELSKI
NUMBER PE-2005000712
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED
7/15/2025

ROUTE	STATE
231	MO
DISTRICT	SHEET NO.
SL	60

COUNTY
ST. LOUIS

JOB NO.
J6S3631

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION	DATE

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SCALE
0 20 40 60

U.S. SURVEY NO. 904

27G421276
9359 S BROADWAY ST
N/F
CCC LEMAY LLC
DB 13351 PG 2075
NO ACQUISITION

27G421265
9353 S BROADWAY ST
N/F
CCC LEMAY LLC
DB 13351 PG 2075
NO ACQUISITION

27G421111
9331 S BROADWAY ST
N/F
DISTRIBUTORS INVESTMENT COMPANY
DB 22778 PG 4239
NO ACQUISITION

MSP DIESEL SOLUTIONS

DRWY 174
COMMERCIAL
28' WIDE
(PAVED APPROACH)
STA. 20+17.92

DRWY 175
COMMERCIAL
64' WIDE
(PAVED APPROACH)
STA. 19+16.50

27G421122
9327 S BROADWAY ST
N/F
DISTRIBUTORS INVESTMENT COMPANY
DB 22778 PG 4239
NO ACQUISITION

(61)
27G420853
9311 S BROADWAY ST
N/F
SPIRIT ENERGY, LLC
DB 14390 PG 1471
EXISTING = 0.595 ACRES
PERM. UTILITY ESMT. = 0.001 ACRES (52 SF)
PERM. ESMT. = 0.001 ACRES (22 SF)
REMAINDER = 0.595 ACRES

CIRCLE K

COMMERCIAL ENTRANCE 176
STA. +58.17
TYPE 1 DRIVEWAY
CONC. PAVED APPROACH
48.6' WIDTH (48.6' EXIST. WIDTH)
7' LENGTH R.T.

+66.60 35.00'RT
+66.64 30.00'RT
+36.60 35.00'RT
+36.64 30.00'RT
EXIST. 5' PERM. ESMT.
+06.13 35.00'RT
+76.60 35.00'RT
+76.64 30.00'RT
EXIST. 5' PERM. ESMT.
+26.60 35.00'RT
+26.64 30.00'RT
+36.60 35.00'RT
+36.64 30.00'RT
+16.56 35.00'RT
+16.60 30.00'RT
EXIST. 5' X 10' PERM. ESMT. TO LACLEDE GAS CO.
+96.60 35.00'RT
+96.64 30.00'RT

EXIST. R/W
S.L.
EXIST. R/W
EXIST. R/W
S.L.
EXIST. R/W
S.L.

MATCHLINE
STA. 21+89.94

MATCHLINE
STA. 16+89.94

℄ R/W RTE. 231
S 54°15'23" W

RTE 231 / S BROADWAY ST

+06.19 30.00'LT
EXIST. R/W
+36.19 46.50'LT
EXIST. R/W
+05.94 40.00'LT
EXIST. 10' PERM. ESMT. TO ST. LOUIS COUNTY WATER CO.
+35.94 56.50'LT
EXIST. 10' PERM. ESMT. TO ST. LOUIS COUNTY WATER CO.

PAVEMENT LEGEND
- PROPOSED SIDEWALK
- COLDMILLING BITUMINOUS PAVEMENT
- FULL DEPTH PAVEMENT, REMOVE AND REPLACE
- DRIVEWAY, REMOVE AND REPLACE
- ADA RAMP

27G510080
9214 S BROADWAY ST
N/F
METROPOLITAN ST. LOUIS SEWER DISTRICT
DB 6305 PG 1288
NO ACQUISITION

METROPOLITAN ST. LOUIS SEWER DISTRICT LEMAY PLANT

GENERAL NOTES:
1. SEE NOTES ON ROW PLAN SHEET 1 OF 31.

ROW PLAN SHEETS
SHEET 27 OF 31

LAYOUT	NS	01/2025
DRAWN	SMC	01/2025
REVIEWED	DJK	01/2025

STATE OF MISSOURI
DENNIS J KOSCIELSKI
NUMBER PE-2005000712
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED
7/15/2025

ROUTE	STATE
231	MO
DISTRICT	SHEET NO.
SL	61

COUNTY
ST. LOUIS

JOB NO.
J6S3631

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION	DATE

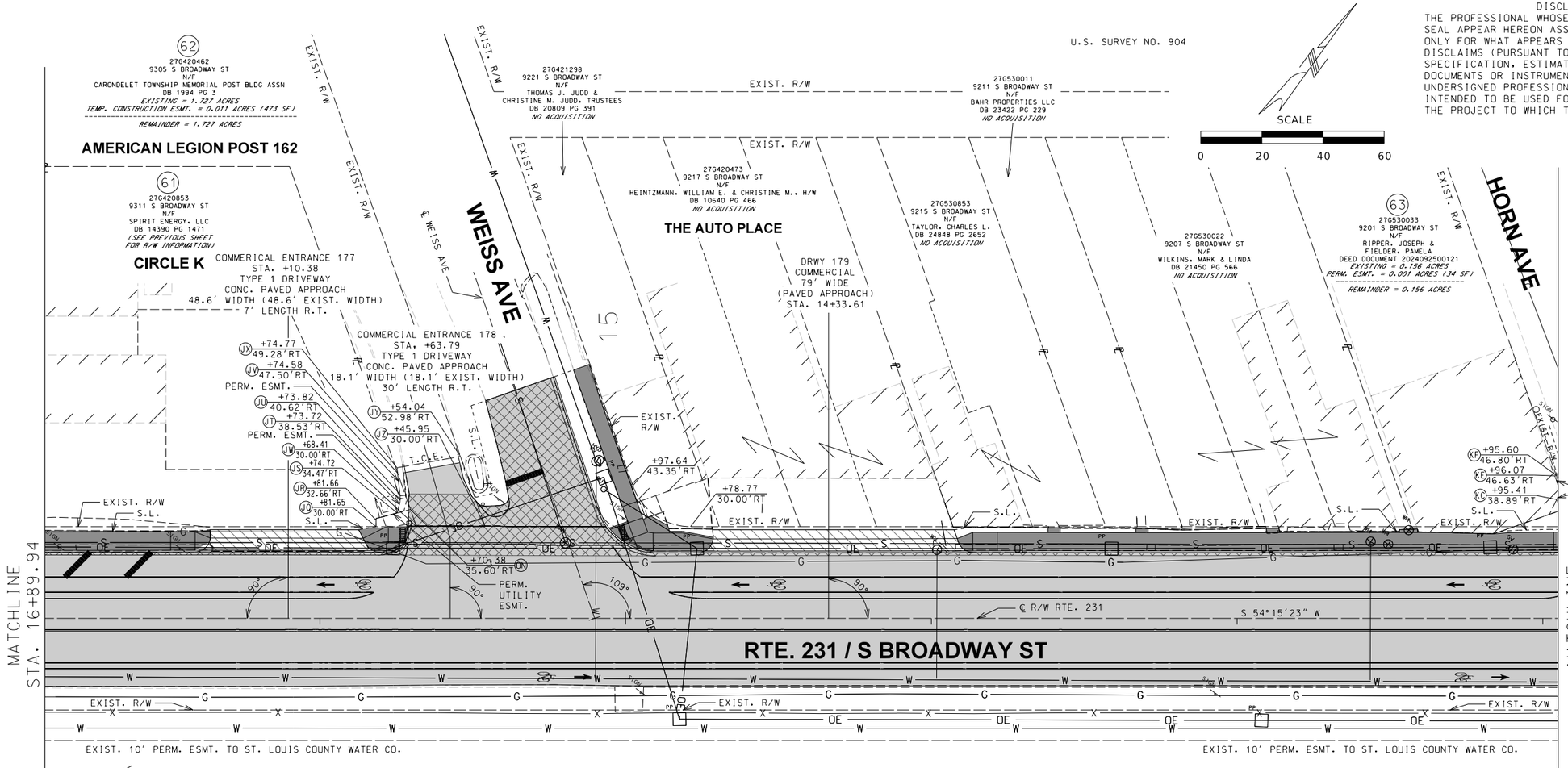
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245

PAVEMENT LEGEND

- PROPOSED SIDEWALK
- COLDMILLING BITUMINOUS PAVEMENT
- FULL DEPTH PAVEMENT, REMOVE AND REPLACE
- DRIVEWAY, REMOVE AND REPLACE
- ADA RAMP

27G510080
9214 S BROADWAY ST
N/F
METROPOLITAN ST. LOUIS SEWER DISTRICT
DB 6305 PG 1288
NO ACQUISITION

METROPOLITAN ST. LOUIS SEWER DISTRICT LEMAY PLANT

PARCEL 61 - PERMANENT EASEMENT		
PT-PT	STATION AND OFFSET	LENGTH AND BEARING
JS JT	15+74.72 34.47' RT TO 15+73.72 38.53' RT	4.19' N 21°49'57" W
JT JU	15+73.72 38.53' RT TO 15+73.82 40.62' RT	2.09' N 38°44'27" W
JU JV	15+73.82 40.62' RT TO 15+74.58 47.50' RT	6.92' N 41°59'28" W
JV ON	15+74.58 47.50' RT TO 15+70.38 35.60' RT	12.62' S 55°09'37" E
ON JS	15+70.38 35.60' RT TO 15+74.72 34.47' RT	4.48' S 39°37'27" W

PARCEL 61 - PERM. UTILITY ESMT.		
PT-PT	STATION AND OFFSET	LENGTH AND BEARING
JQ JR	15+81.65 30.00' RT TO 15+81.66 32.66' RT	2.66' N 35°56'18" W
JR ON	15+81.66 32.66' RT TO 15+70.38 35.60' RT	11.66' N 39°37'27" E
ON JW	15+70.38 35.60' RT TO 15+68.41 30.00' RT	5.94' S 55°09'37" E
JW JQ	15+68.41 30.00' RT TO 15+81.65 30.00' RT	13.24' S 54°15'23" W

PARCEL 62 - T.C.E.		
PT-PT	STATION AND OFFSET	LENGTH AND BEARING
JW JV	15+68.41 30.00' RT TO 15+74.58 47.50' RT	18.55' N 55°09'37" W
JV JX	15+74.58 47.50' RT TO 15+74.77 49.28' RT	1.79' N 41°59'28" W
JX JY	15+74.77 49.28' RT TO 15+54.04 52.98' RT	21.06' N 44°08'15" E
JY JZ	15+54.04 52.98' RT TO 15+45.95 30.00' RT	24.36' S 55°09'37" E
JZ JW	15+45.95 30.00' RT TO 15+68.41 30.00' RT	22.46' S 54°15'23" W

PARCEL 63 - PERMANENT EASEMENT		
PT-PT	STATION AND OFFSET	LENGTH AND BEARING
KA KB	11+93.59 30.00' RT TO 11+94.31 35.47' RT	5.52' N 43°08'50" W
KB KC	11+94.31 35.47' RT TO 11+95.41 38.89' RT	3.59' N 53°41'37" W
KC KD	11+95.41 38.89' RT TO 11+94.14 41.46' RT	2.87' N 09°28'21" W
KD KE	11+94.14 41.46' RT TO 11+96.07 46.63' RT	5.52' N 56°13'28" W
KE KF	11+96.07 46.63' RT TO 11+95.60 46.80' RT	0.50' N 34°50'23" E
KF KG	11+95.60 46.80' RT TO 11+89.68 30.00' RT	17.81' S 55°09'37" E
KG KA	11+89.68 30.00' RT TO 11+93.59 30.00' RT	3.91' S 54°15'23" W

GENERAL NOTES:
1. SEE NOTES ON ROW PLAN SHEET 1 OF 31.

LAYOUT	NS	01/2025
DRAWN	SMC	01/2025
REVIEWED	DJK	01/2025

ROW PLAN SHEETS
SHEET 28 OF 31

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STATE OF MISSOURI
DENNIS J KOSCIELSKI
NUMBER PE-2005000712
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED
7/15/2025

ROUTE	STATE
231	MO
DISTRICT	SHEET NO.
SL	62

COUNTY
ST. LOUIS

JOB NO.
J6S3631

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

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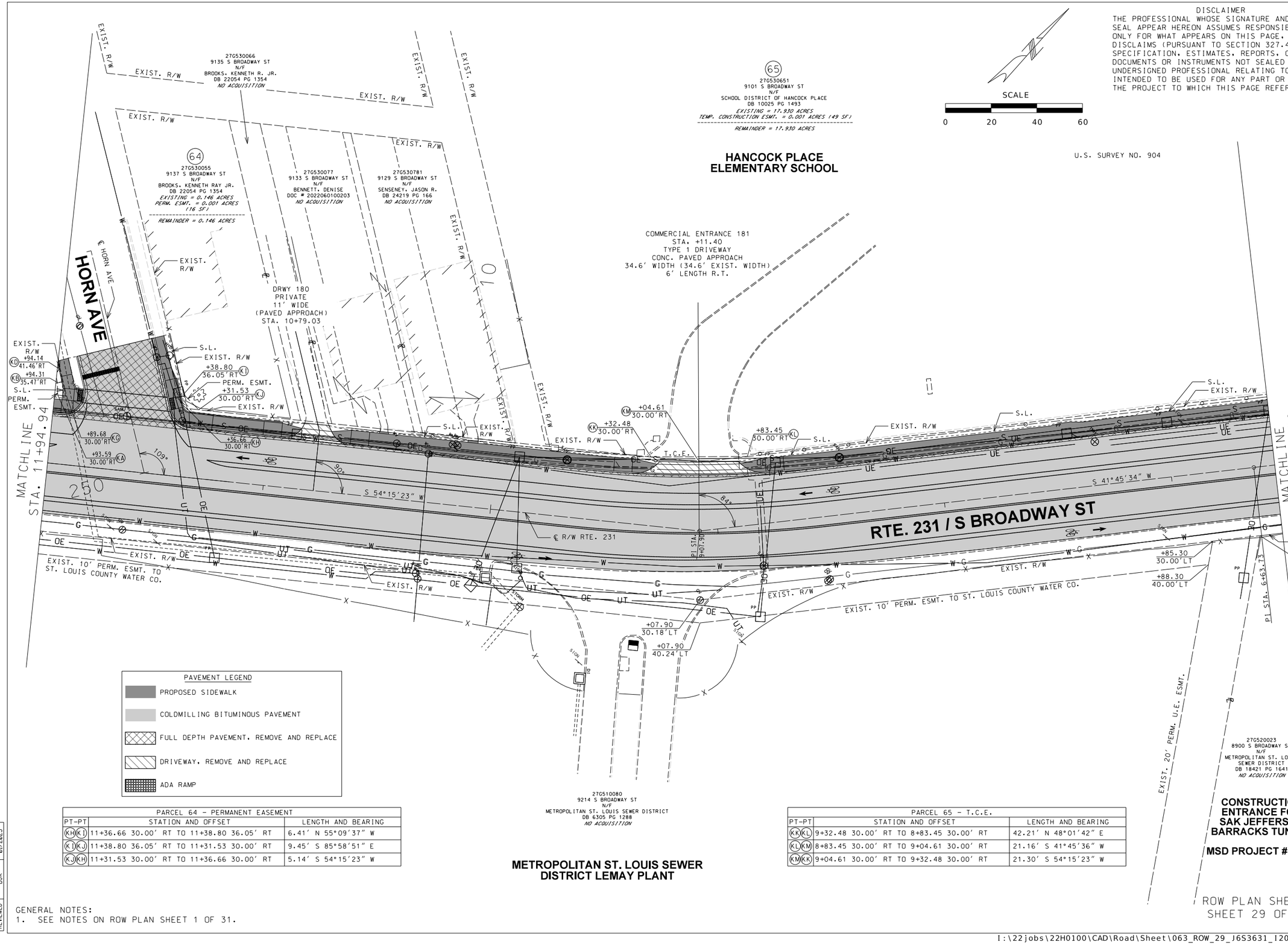
DESCRIPTION	DATE

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105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

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PARCEL 64 - PERMANENT EASEMENT		
PT-PT	STATION AND OFFSET	LENGTH AND BEARING
(KH)(KI)	11+36.66 30.00' RT TO 11+38.80 36.05' RT	6.41' N 55°09'37" W
(KI)(KJ)	11+38.80 36.05' RT TO 11+31.53 30.00' RT	9.45' S 85°58'51" E
(KJ)(KH)	11+31.53 30.00' RT TO 11+36.66 30.00' RT	5.14' S 54°15'23" W

PARCEL 65 - T.C.E.		
PT-PT	STATION AND OFFSET	LENGTH AND BEARING
(KK)(KL)	9+32.48 30.00' RT TO 8+83.45 30.00' RT	42.21' N 48°01'42" E
(KL)(KM)	8+83.45 30.00' RT TO 9+04.61 30.00' RT	21.16' S 41°45'36" W
(KM)(KK)	9+04.61 30.00' RT TO 9+32.48 30.00' RT	21.30' S 54°15'23" W

GENERAL NOTES:
1. SEE NOTES ON ROW PLAN SHEET 1 OF 31.

ROW PLAN SHEETS
SHEET 29 OF 31

LAYOUT	NS	01/2025
DRAWN	SMC	01/2025
REVIEWED	DJK	01/2025

STATE OF MISSOURI
DENNIS J KOSCIELSKI
NUMBER PE-2005000712
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED: 7/15/2025

ROUTE	STATE
231	MO
DISTRICT	SHEET NO.
SL	63

COUNTY: ST. LOUIS
JOB NO.: J6S3631
CONTRACT ID.:
PROJECT NO.:
BRIDGE NO.:

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

DESCRIPTION | DATE

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105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

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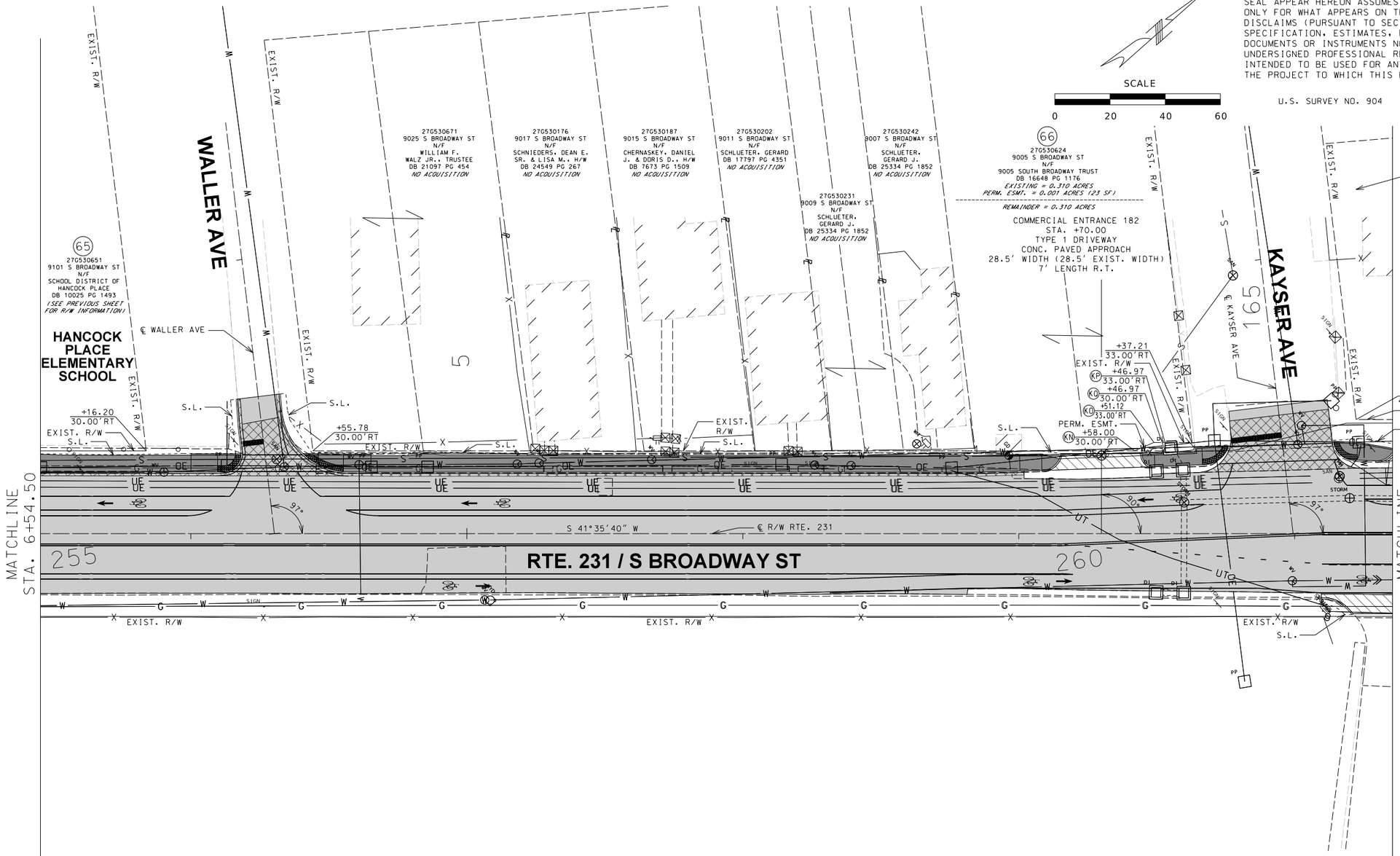
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SCALE
0 20 40 60

U.S. SURVEY NO. 904



PAVEMENT LEGEND
- PROPOSED SIDEWALK
- COLDMILLING BITUMINOUS PAVEMENT
- FULL DEPTH PAVEMENT, REMOVE AND REPLACE
- DRIVEWAY, REMOVE AND REPLACE
- ADA RAMP

27G520023
8900 S BROADWAY ST
N/F
METROPOLITAN ST. LOUIS SEWER DISTRICT
DB 18421 PG 1641
NO ACQUISITION

CONSTRUCTION ENTRANCE FOR SAK JEFFERSON BARRACKS TUNNEL

MSD PROJECT # 11711

PARCEL 66 - PERMANENT EASEMENT		
PT-PT	STATION AND OFFSET	LENGTH AND BEARING
(KN)(KO)	2+58.00 30.00' RT TO 2+51.12 33.00' RT	7.50' N 18°01'35" E
(KO)(KP)	2+51.12 33.00' RT TO 2+46.97 33.00' RT	4.15' N 41°35'40" E
(KP)(KO)	2+46.97 33.00' RT TO 2+46.97 30.00' RT	3.00' S 48°23'59" E
(KO)(KN)	2+46.97 30.00' RT TO 2+58.00 30.00' RT	11.03' S 41°35'40" W

GENERAL NOTES:
1. SEE NOTES ON ROW PLAN SHEET 1 OF 31.

LAYOUT	NS	01/2025
DRAWN	SMC	01/2025
REVIEWED	DJK	01/2025

ROW PLAN SHEETS
SHEET 30 OF 31

STATE OF MISSOURI
DENNIS J KOSCIELSKI
NUMBER PE-2005000712
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED: 7/15/2025

ROUTE	STATE
231	MO
DISTRICT	SHEET NO.
SL	64

COUNTY: ST. LOUIS
JOB NO.: J6S3631
CONTRACT ID.:
PROJECT NO.:
BRIDGE NO.:

DESCRIPTION	DATE

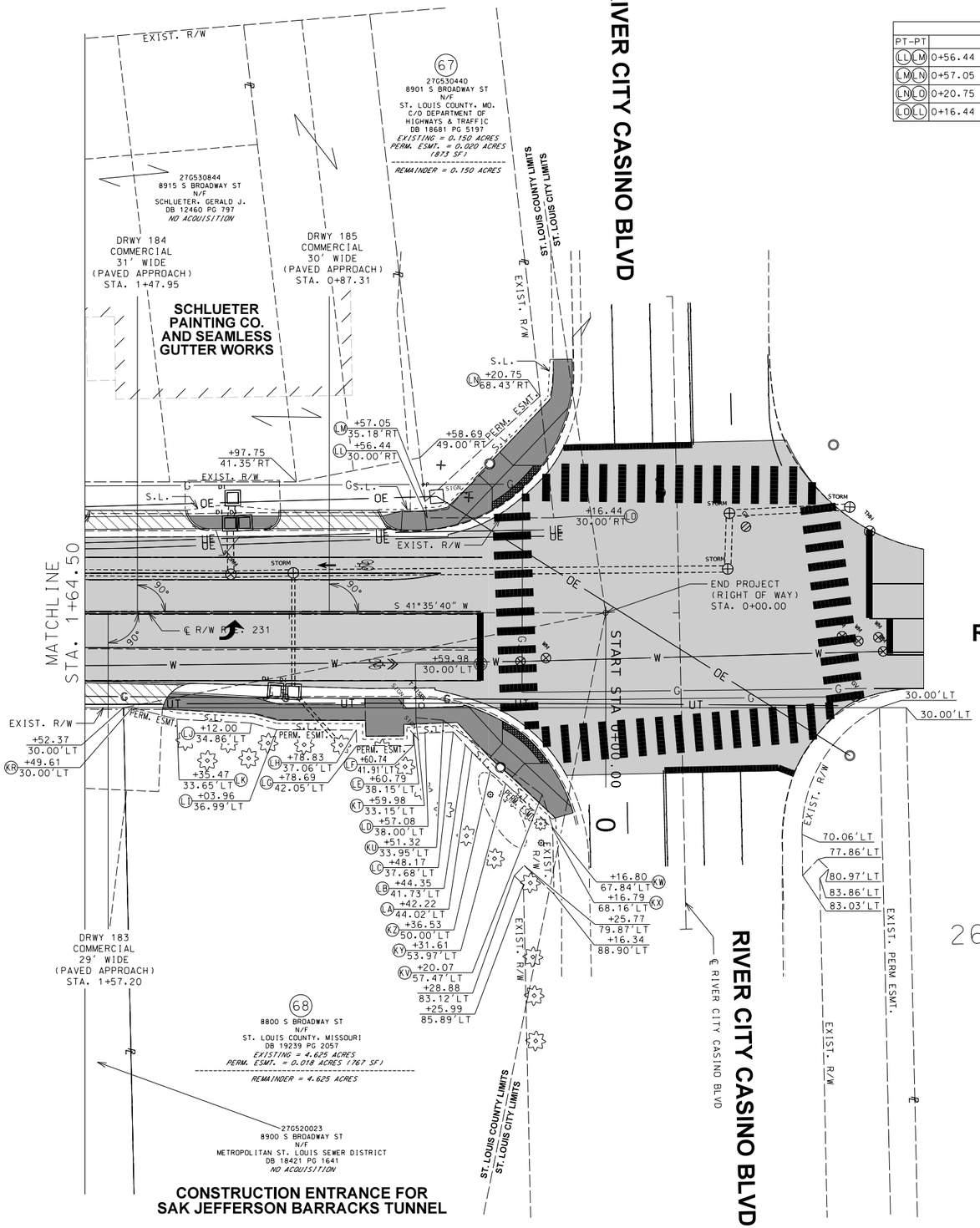
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105 WEST CAPITOL
JEFFERSON CITY, MO 65102
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PARCEL 67 - PERMANENT EASEMENT		
PT-PT	STATION AND OFFSET	LENGTH AND BEARING
LL LM	0+56.44 30.00' RT TO 0+57.05 35.18' RT	5.21' N 55°10'20" W
LM LN	0+57.05 35.18' RT TO 0+20.75 68.43' RT	49.22' N 00°53'38" W
LN LO	0+20.75 68.43' RT TO 0+16.44 30.00' RT	38.67' S 54°48'49" E
LO LL	0+16.44 30.00' RT TO 0+56.44 30.00' RT	40.00' S 41°35'40" W

U.S. SURVEY NO. 904

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SCALE
0 20 40 60

PAVEMENT LEGEND
- PROPOSED SIDEWALK
- COLDMILLING BITUMINOUS PAVEMENT
- FULL DEPTH PAVEMENT, REMOVE AND REPLACE
- DRIVEWAY, REMOVE AND REPLACE
- ADA RAMP

RTE. 231 / S BROADWAY ST

PARCEL 68 - PERMANENT EASEMENT		
PT-PT	STATION AND OFFSET	LENGTH AND BEARING
KR KS	1+49.61 30.00' LT TO 0+59.98 30.00' LT	89.63' N 41°35'41" E
KS KT	0+59.98 30.00' LT TO 0+59.98 33.15' LT	3.15' S 48°24'19" E
KT KU	0+59.98 33.15' LT TO 0+51.32 33.95' LT	8.70' N 46°49'45" E
KU KV	0+51.32 33.95' LT TO 0+20.07 57.47' LT	39.11' N 78°33'27" E
KV KW	0+20.07 57.47' LT TO 0+16.80 67.84' LT	10.88' S 65°54'40" E
KW KX	0+16.80 67.84' LT TO 0+16.79 68.16' LT	0.32' S 49°38'46" E
KX KY	0+16.79 68.16' LT TO 0+31.61 53.97' LT	20.52' S 85°20'57" W
KY KZ	0+31.61 53.97' LT TO 0+36.53 50.00' LT	6.32' S 80°27'33" W
KZ LA	0+36.53 50.00' LT TO 0+42.22 44.02' LT	8.27' S 88°01'40" W
LA LB	0+42.22 44.02' LT TO 0+44.35 41.73' LT	3.12' S 88°46'07" W
LB LC	0+44.35 41.73' LT TO 0+48.17 37.68' LT	5.57' S 88°13'42" W
LC LD	0+48.17 37.68' LT TO 0+57.08 38.00' LT	8.92' S 39°31'05" W
LD LE	0+57.08 38.00' LT TO 0+60.79 38.15' LT	3.71' S 39°18'54" W
LE LF	0+60.79 38.15' LT TO 0+60.74 41.91' LT	3.76' S 49°09'14" E
LF LG	0+60.74 41.91' LT TO 0+78.69 42.05' LT	17.95' S 41°08'56" W
LG LH	0+78.69 42.05' LT TO 0+78.83 37.06' LT	4.99' N 50°00'04" W
LH LI	0+78.83 37.06' LT TO 1+03.96 36.99' LT	25.13' S 41°44'55" W
LI LJ	1+03.96 36.99' LT TO 1+12.00 34.86' LT	8.32' S 56°26'17" W
LJ LK	1+12.00 34.86' LT TO 1+35.47 33.65' LT	23.51' S 44°32'22" W
LK KR	1+35.47 33.65' LT TO 1+49.61 30.00' LT	14.60' S 56°04'35" W

265

GENERAL NOTES:
1. SEE NOTES ON ROW PLAN SHEET 1 OF 31.

ROW PLAN SHEETS
SHEET 31 OF 31

LAYOUT	NS	01/2025
DRAWN	SMC	01/2025
REVIEWED	DJK	01/2025

STATE OF MISSOURI
DENNIS J KOSCIELSKI
NUMBER PE-2005000712
PROFESSIONAL ENGINEER

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ROUTE: 231 | STATE: MO
DISTRICT: SL | SHEET NO.: 65
COUNTY: ST. LOUIS
JOB NO.: J6S3631
CONTRACT ID.:
PROJECT NO.:
BRIDGE NO.:

DESCRIPTION	DATE

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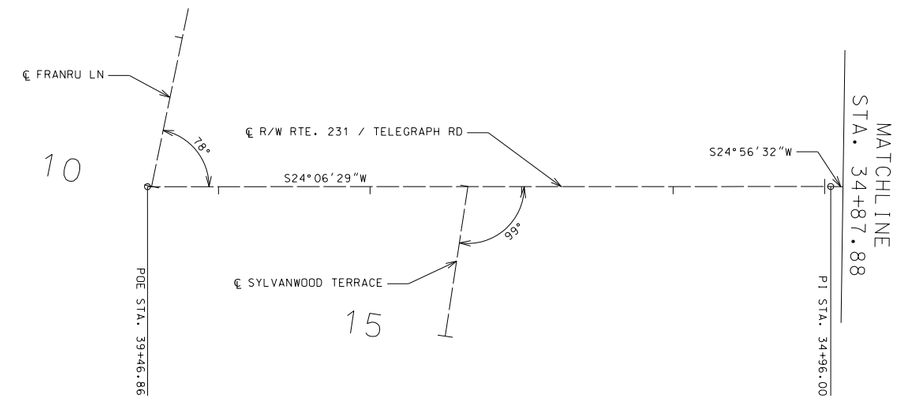
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SPECIAL SHEETS
RIGHT OF WAY ALIGNMENT
SHEET 1 OF 13

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ROUTE	STATE
231	MO
DISTRICT	SHEET NO.
SL	66

COUNTY
ST. LOUIS

JOB NO.
J6S3631

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PROJECT NO.

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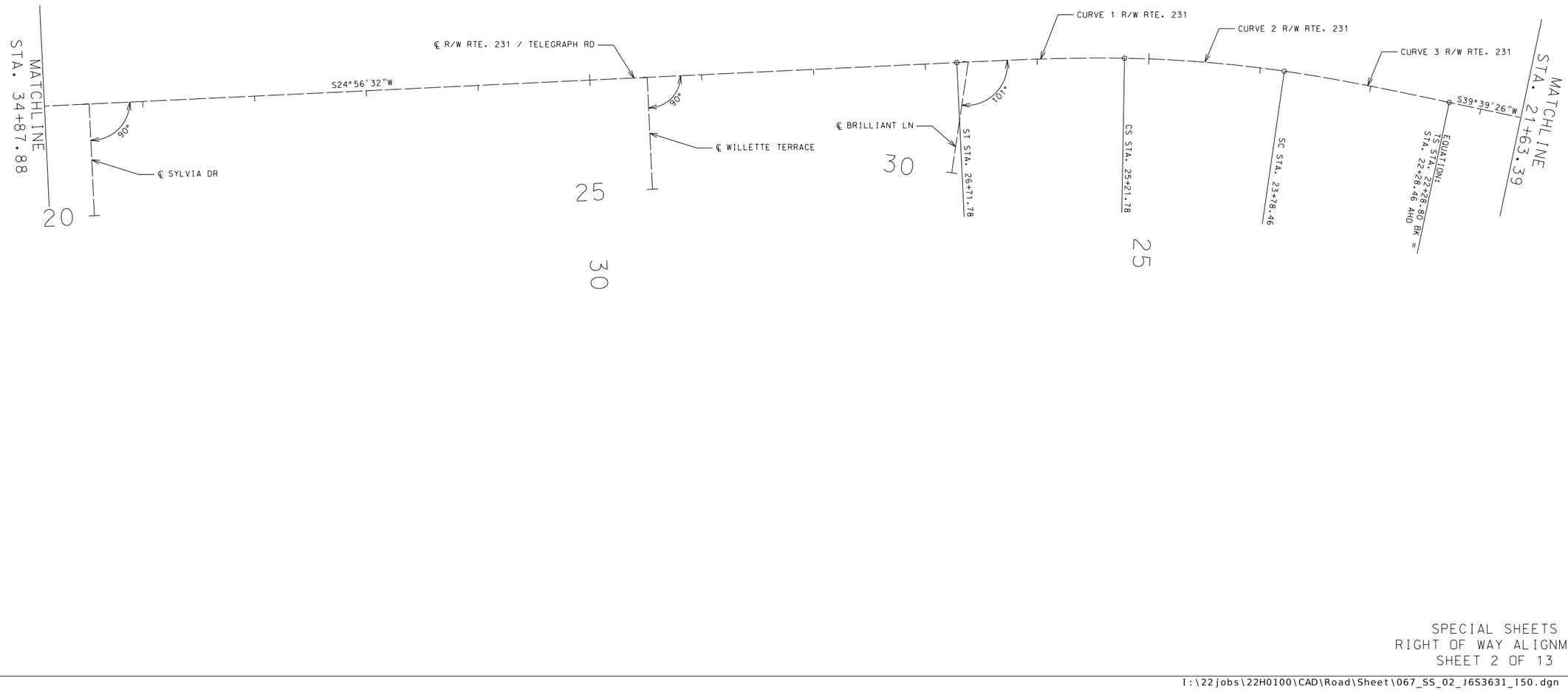
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Ys 6.56'
Xs 149.83'
LT 100.02'
ST 50.02'

CURVE 2 R/W RTE. 231
PI 24+50.21
PC 23+78.46
PT 25+21.78
Δ 7°11'24.3" (LT)
D 5°1'0.1"
L 143.32' (ARC)
T 71.76'
R 1,142.10'

CURVE 3 R/W RTE. 231
PI 23+28.48
Ls 150.00'
Ys 3.28'
Xs 149.94'
LT 100.02'
ST 50.02'

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SPECIAL SHEETS
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SHEET 2 OF 13

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ROUTE	STATE
231	MO
DISTRICT	SHEET NO.
SL	67

COUNTY
ST. LOUIS

JOB NO.
J6S3631

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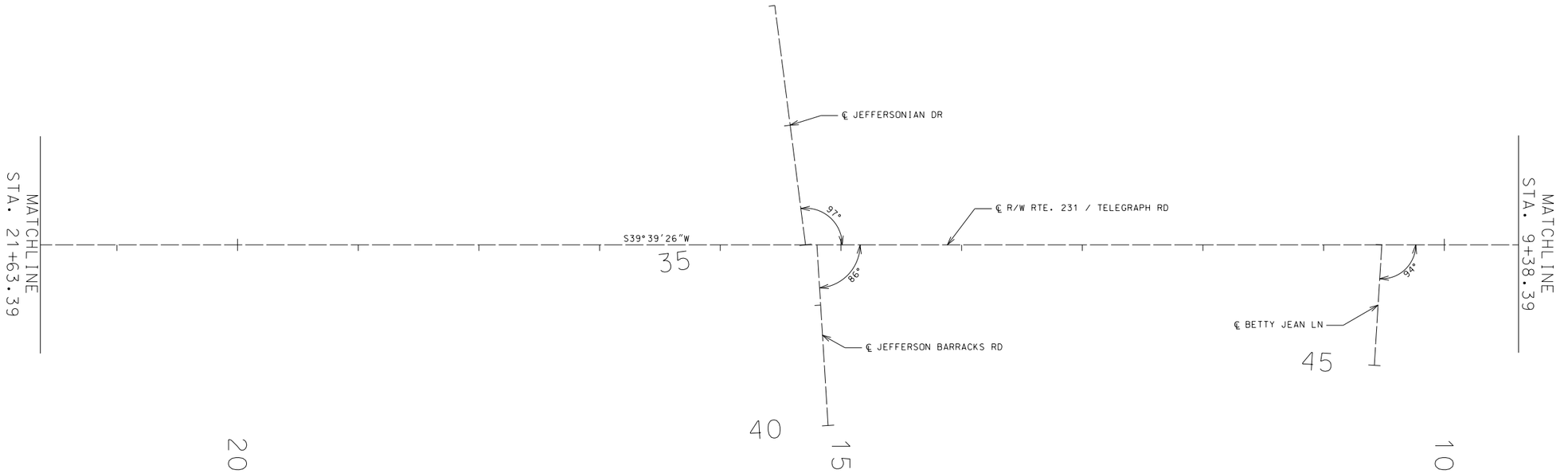
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SPECIAL SHEETS
RIGHT OF WAY ALIGNMENT
SHEET 3 OF 13

LAYOUT	NS	01/2025
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DENNIS J KOSCIELSKI
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ROUTE	STATE
231	MO
DISTRICT	SHEET NO.
SL	68

COUNTY
ST. LOUIS

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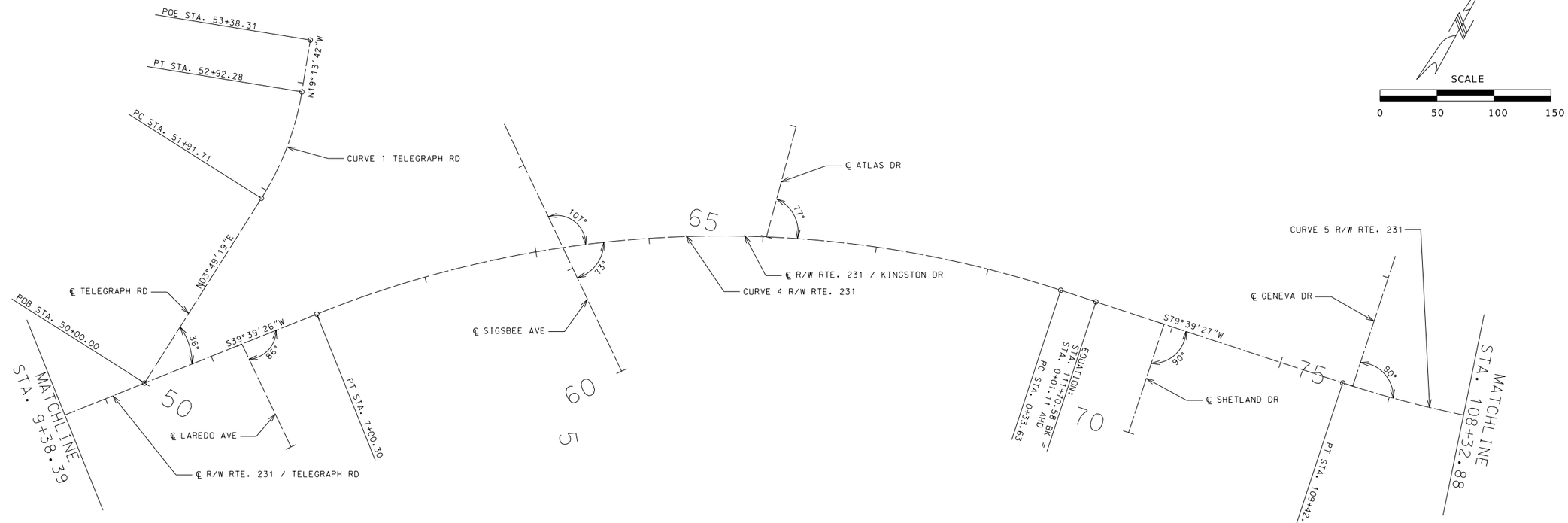
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CURVE 1 TELEGRAPH RD	
PI	52+42.68
PC	51+91.71
PT	52+92.28
Δ	23°3'0.6" (LT)
D	22°55'5.9"
L	100.58' (ARC)
T	50.98'
R	250.00'

CURVE 4 R/W RTE. 231	
PI	3+81.20
PC	0+33.63
PT	7+00.30
Δ	40°0'0.1" (LT)
D	6°0'0.0"
L	666.67' (ARC)
T	347.57'
R	954.93'

CURVE 5 R/W RTE. 231	
PI	106+02.66
PC	102+26.82
PT	109+42.65
Δ	42°57'0.0" (RT)
D	6°0'0.0"
L	716.16' (ARC)
T	375.85'
R	955.37'

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SHEET 4 OF 13

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DRAWN	SMC	01/2025
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231	MO
DISTRICT	SHEET NO.
SL	69

COUNTY: ST. LOUIS
JOB NO.: J6S3631
CONTRACT ID.:
PROJECT NO.:
BRIDGE NO.:

DATE	DESCRIPTION

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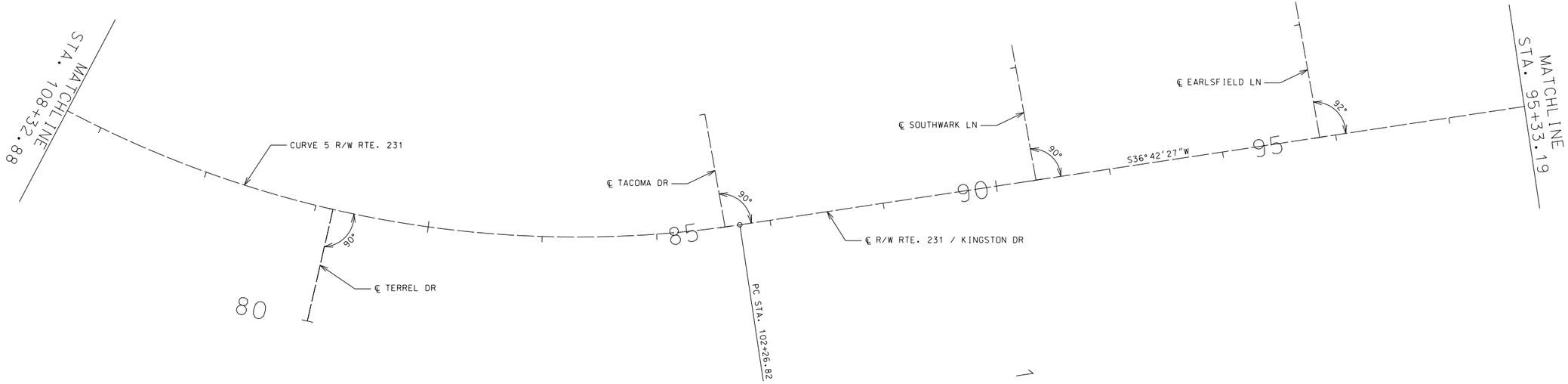
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CURVE 5 R/W RTE. 231
PI 106+02.66
PC 102+26.82
PT 109+42.65
Δ 42°57'0.0" (RT)
D 6°0'0.0"
L 716.16' (ARC)
T 375.85'
R 955.37'

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SHEET 5 OF 13

LAYOUT	NS	01/2025
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STATE OF MISSOURI
DENNIS J KOSCIELSKI
NUMBER PE-2005000712
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ROUTE 231 | STATE MO
DISTRICT SL | SHEET NO. 70
COUNTY ST. LOUIS
JOB NO. J6S3631
CONTRACT ID.
PROJECT NO.
BRIDGE NO.

DESCRIPTION	DATE

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RIGHT OF WAY ALIGNMENT
SHEET 6 OF 13

LAYOUT	NS	01/2025
DRAWN	SMC	01/2025
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DENNIS J KOSCIELSKI
NUMBER PE-2005000712
PROFESSIONAL ENGINEER

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7/25/2025

ROUTE	STATE
231	MO

DISTRICT	SHEET NO.
SL	71

COUNTY
ST. LOUIS

JOB NO.
J6S3631

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BRIDGE NO.

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SHEET 7 OF 13

LAYOUT	NS	01/2025
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231	MO
DISTRICT	SHEET NO.
SL	72

COUNTY
ST. LOUIS

JOB NO.
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BRIDGE NO.

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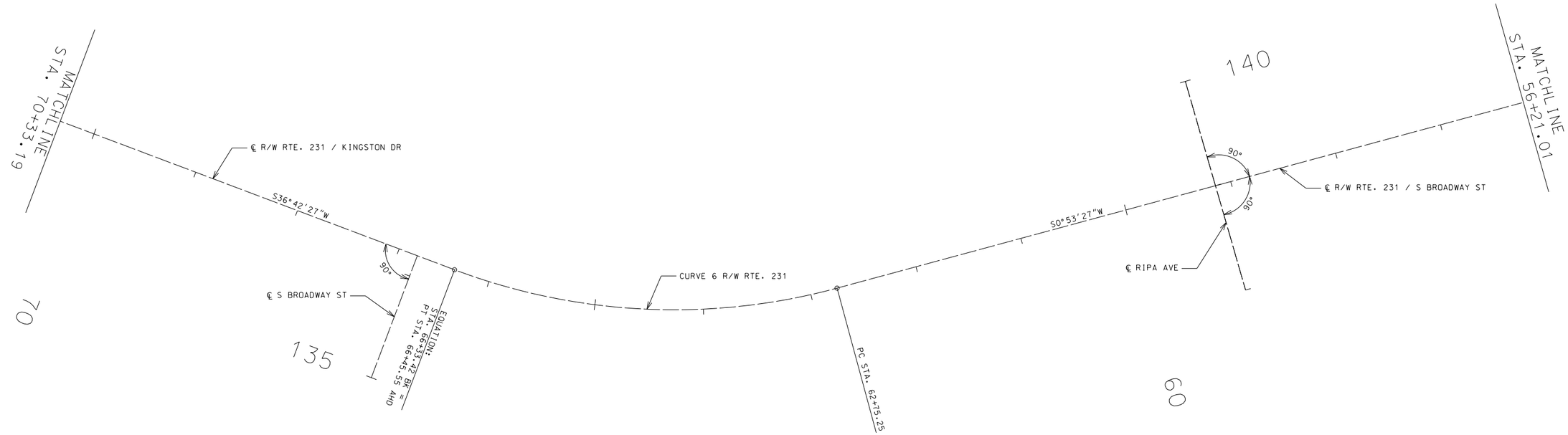
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CURVE 6 R/W RTE. 231
PI 64+60.40
PC 62+75.25
PT 66+45.55
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D 10°0'0.0"
L 358.17' (ARC)
T 185.15'
R 572.96'

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RIGHT OF WAY ALIGNMENT
SHEET 8 OF 13

LAYOUT	NS	01/2025
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231	MO
DISTRICT	SHEET NO.
SL	73

COUNTY
ST. LOUIS

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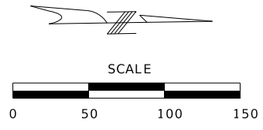
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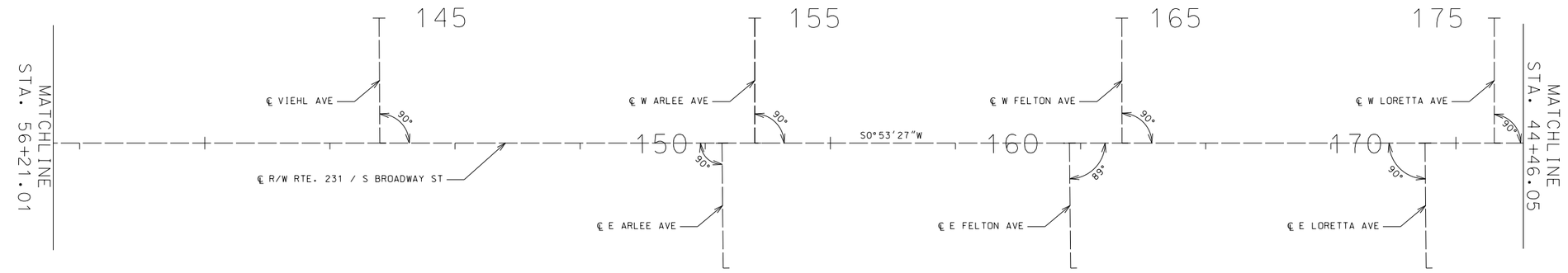
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SHEET 9 OF 13

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DISTRICT	SHEET NO.
SL	74

COUNTY
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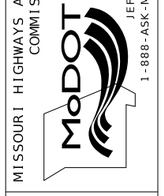
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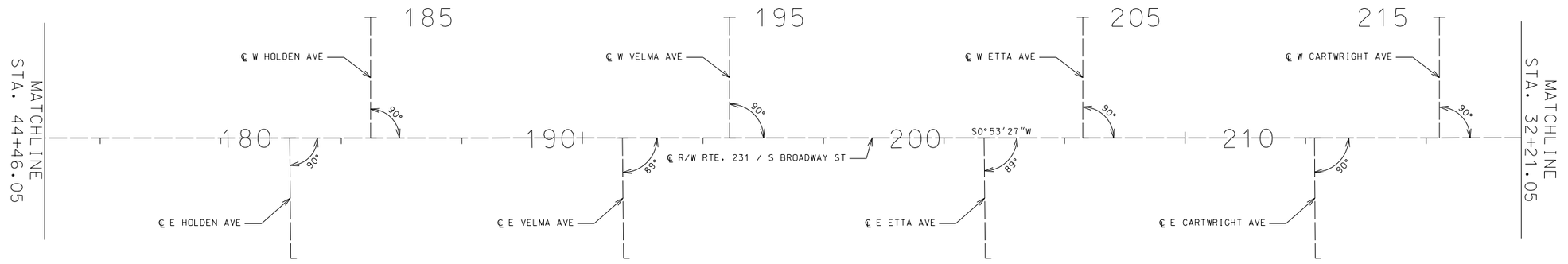
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SPECIAL SHEETS
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SHEET 10 OF 13

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ROUTE	STATE
231	MO
DISTRICT	SHEET NO.
SL	75

COUNTY
ST. LOUIS

JOB NO.
J6S3631

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION	DATE

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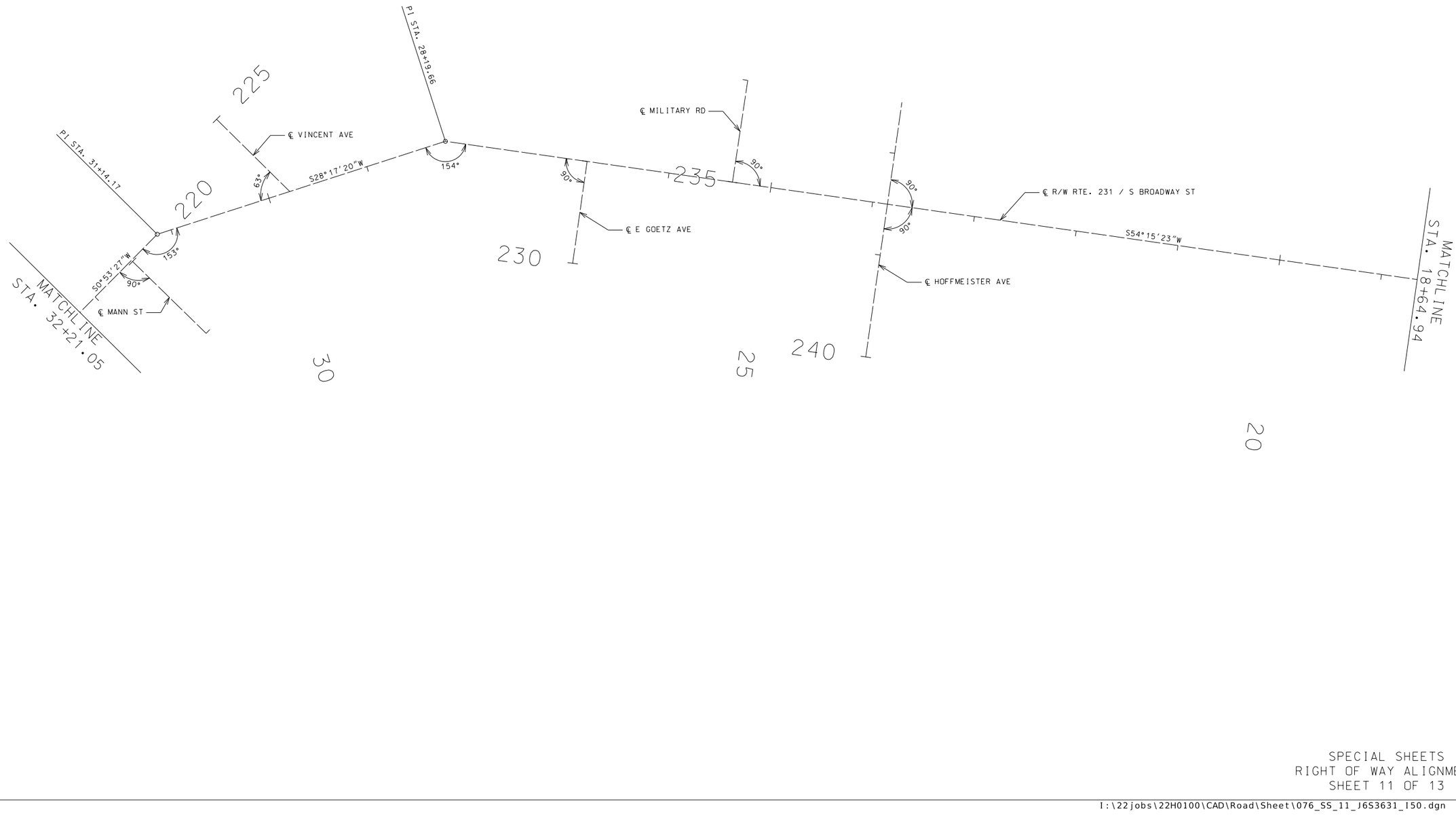
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SPECIAL SHEETS
RIGHT OF WAY ALIGNMENT
SHEET 11 OF 13

LAYOUT	NS	01/2025
DRAWN	SMC	01/2025
REVIEWED	DJK	01/2025

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DATE PREPARED: 7/25/2025

ROUTE	STATE
231	MO
DISTRICT	SHEET NO.
SL	76

COUNTY: ST. LOUIS
JOB NO.: J6S3631
CONTRACT ID.:
PROJECT NO.:
BRIDGE NO.:

DESCRIPTION	DATE

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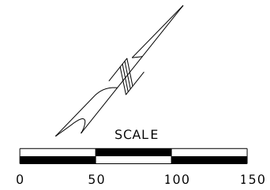
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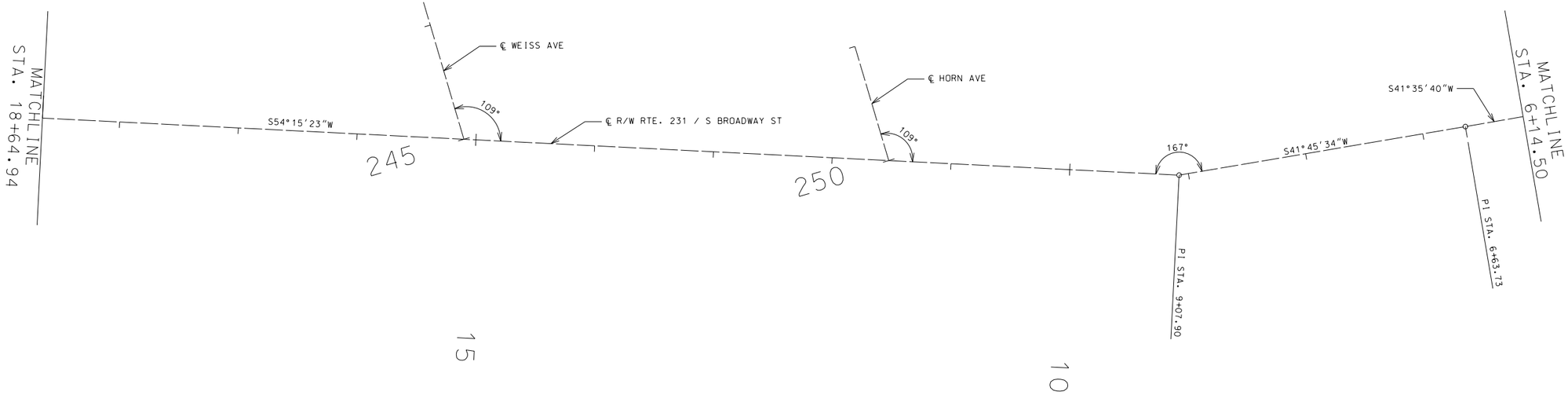
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SPECIAL SHEETS
RIGHT OF WAY ALIGNMENT
SHEET 12 OF 13

LAYOUT	NS	01/2025
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REVIEWED	DJK	01/2025

STATE OF MISSOURI
DENNIS J KOSCIELSKI
NUMBER PE-2005000712
PROFESSIONAL ENGINEER

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231	MO
DISTRICT	SHEET NO.
SL	77

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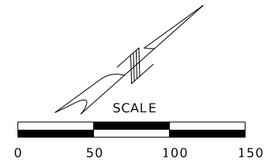
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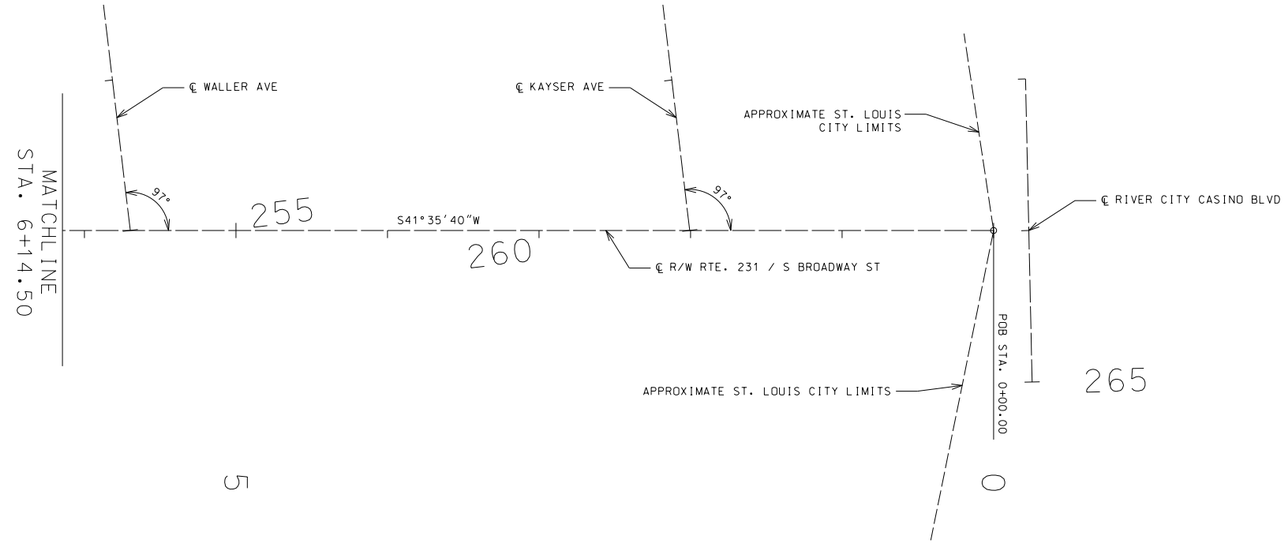
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SPECIAL SHEETS
RIGHT OF WAY ALIGNMENT
SHEET 13 OF 13

LAYOUT	NS	01/2025
DRAWN	SMC	01/2025
REVIEWED	DJK	01/2025

STATE OF MISSOURI
DENNIS J KOSCIELSKI
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ROUTE	STATE
231	MO
DISTRICT	SHEET NO.
SL	78

COUNTY
ST. LOUIS

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BRIDGE NO.

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PARCEL IDENTIFIER	PARCEL ADDRESS	PARCEL NUMBER ON PLANS	OWNER NAME	OWNER ADDRESS	DB	PG	ORIGINAL AREA (ACRES)	NEW R/W (SFT)	NEW R/W (ACRES)	PERMANENT EASEMENT (SFT)	PERMANENT EASEMENT (ACRES)	TEMPORARY CONSTRUCTION EASEMENT (T.C.E.) (SFT)	TEMPORARY CONSTRUCTION EASEMENT (ACRES)	TOTAL REMAINDER (ACRES)
29H510630	2909 TELEGRAPH ROAD	1	EBB PROPERTIES, LLC	2716 TELEGRAPH ROAD, SUITE 107, SAINT LOUIS, MO 63125	22908	542	1.040	0	0.000	77	0.002	0	0.000	1.040
29H510894	515 FRANRU LANE	2	SYLVAN SPRINGS ASSOCIATES, LP	1710 FERNPARK DRIVE, SUITE 4, FENTON, MO 63026	23928	3080	2.790	43	0.001	311	0.007	0	0.000	2.789
29H510432	2843 TELEGRAPH ROAD	3	TAYLOR, CHARLES	9780 GERALD DRIVE, SAINT LOUIS, MO 63128	23754	3621	0.290	83	0.002	0	0.000	1256	0.029	0.288
29H530045	2801 TELEGRAPH ROAD	8	FORREST W. MILLER JR., TRUSTEE	2801 TELEGRAPH ROAD, SAINT LOUIS, MO 63125	12462	2475	1.795	0	0.000	0	0.000	0	0.000	1.795
29H541353	2765 TELEGRAPH ROAD	16 / 17	ST. LUKE'S UNITED METHODIST CHURCH OF ST. LOUIS	2761 TELEGRAPH ROAD, SAINT LOUIS, MO 63125	8446	1343	3.840	0	0.000	0	0.000	2544	0.058	3.840
29H541364	2753 TELEGRAPH ROAD				8446	1364								
29H510333	2844 TELEGRAPH ROAD	4	PACQUET, FRANCES A.	2844 TELEGRAPH ROAD, SAINT LOUIS, MO 63125	15951	1134	0.490	147	0.003	0	0.000	0	0.000	0.487
29H510366	2842 TELEGRAPH ROAD	5	SOMMERS, MICHAEL A.	2842 TELEGRAPH ROAD, SAINT LOUIS, MO 63125	11819	829	0.192	63	0.001	0	0.000	0	0.000	0.191
29H510454	2834 TELEGRAPH ROAD	6	CARBO, MARK N.	2834 TELEGRAPH ROAD, SAINT LOUIS, MO 63125	8205	2164	0.160	0	0.000	0	0.000	865	0.020	0.160
29H510704	2830 TELEGRAPH ROAD	7	CRAIG, RICHARD H.	2830 TELEGRAPH ROAD, SAINT LOUIS, MO 63125	18323	5102	0.160	0	0.000	0	0.000	909	0.021	0.160
29H510502	2826 TELEGRAPH ROAD	9	KEKEDEKS, LLC	2826 TELEGRAPH ROAD, SAINT LOUIS, MO 63125	22530	502	0.160	0	0.000	0	0.000	930	0.021	0.160
29H510511	2822 TELEGRAPH ROAD	10	MULLEN, JAMES & BARBARA, H/W	2822 TELEGRAPH ROAD, SAINT LOUIS, MO 63125	17150	3337	0.160	0	0.000	0	0.000	847	0.019	0.160
29H520497	2820 TELEGRAPH ROAD	11	JAROSZEWSKI, MATTHEW T. & MATHES, ROBYN D.	2820 TELEGRAPH ROAD, SAINT LOUIS, MO 63125	23142	2518	0.160	0	0.000	0	0.000	770	0.018	0.160
29H520552	2818 TELEGRAPH ROAD	12	HARLIN, VALERY & JEREMY, HW	2818 TELEGRAPH ROAD, SAINT LOUIS, MO 63125	DEED DOC. 2024070300520		0.160	0	0.000	0	0.000	771	0.018	0.160
29H520604	2816 TELEGRAPH ROAD	13	BRYAN, CODY DALE	2816 TELEGRAPH ROAD, SAINT LOUIS, MO 63125	23768	3490	0.160	0	0.000	0	0.000	256	0.006	0.160
29H520772	2808 TELEGRAPH ROAD	14	BLOES, BRADLEY M.	2808 TELEGRAPH ROAD, SAINT LOUIS, MO 63125	25280	1558	0.180	0	0.000	0	0.000	295	0.007	0.180
29H520824	2804 TELEGRAPH ROAD	15	CHARLES T. WALDEN JR., TRUSTEE	3836 LOUGHBOROUGH AVENUE, SAINT LOUIS, MO 63116	23861	150	0.176	0	0.000	0	0.000	583	0.013	0.176
29H540352	2738 TELEGRAPH ROAD	18	ROGG, NATALIE & JOSEPH	2738 TELEGRAPH ROAD, SAINT LOUIS, MO 63125	21852	307	0.674	0	0.000	0	0.000	140	0.003	0.674
29H541155	2716 TELEGRAPH ROAD	19	RESALAT COMMUNITY CENTER	3418 MERAMEC STREET, SAINT LOUIS, MO 63118	DOC # 2022041100364		1.010	0	0.000	0	0.000	643	0.015	1.010
29H541302	2700 TELEGRAPH ROAD	20	EXCHANGERIGHT NET LEASED PORTFOLIO 29 DST	PO BOX 1159, DEERFIELD, IL 60015	23672	143	1.680	0	0.000	0	0.000	999	0.023	1.680
29H541111	2675 TELEGRAPH ROAD	21	NNN REIT, LP	450 S ORANGE AVENUE, SUITE 900, ORLANDO, FL 32801	DOC # 2023060200097		0.292	147	0.003	0	0.000	0	0.000	0.289
29H541298	2666 TELEGRAPH ROAD	22	SHANE INVESTMENT GROUP, LLC	13719 VAN NUYS BOULEVARD, PACOIMA, CA 91331	25316	3047	0.560	0	0.000	0	0.000	73	0.002	0.560
28H310297	2608 TELEGRAPH ROAD	23	EXCELDA DEVELOPMENT COMPANY	3054 ARROWHEAD POINT DRIVE, SAINT LOUIS, MO 63129	5488	13	0.148	0	0.000	56	0.001	0	0.000	0.148
28H311881	149 LAREDO AVENUE	24	LAREDO PROPERTIES, LLC	4842 LAKETEN COURT, SAINT LOUIS, MO 63128	17466	2461	0.830	0	0.000	70	0.002	0	0.000	0.830
28H311908	2568 TELEGRAPH ROAD	25	VINAYAKA, LLC	2568 TELEGRAPH ROAD, SAINT LOUIS, MO 63125	24398	2464	0.600	0	0.000	562	0.013	0	0.000	0.600
28H310945	601 KINGSTON DRIVE	26	OSBORN, SHAUN	601 KINGSTON DRIVE, SAINT LOUIS, MO 63125	19474	1383	0.138	0	0.000	0	0.000	100	0.002	0.138
28H310808	528 KINGSTON DRIVE	27	CHIANTA, GAETANO	528 KINGSTON DRIVE, SAINT LOUIS, MO 63125	22690	178	0.113	0	0.000	0	0.000	100	0.002	0.113
28H320212	384 KINGSTON DRIVE	29	MCDONALD, TAMMY L.	384 KINGSTON DRIVE, SAINT LOUIS, MO 63125	15648	1522	0.188	0	0.000	116	0.003	0	0.000	0.188
28H340223	344 KINGSTON DRIVE	30	GLICK, JEROME E.	727 N 1ST STREET, SAINT LOUIS, MO 63102	6793	1961	0.498	0	0.000	3523	0.081	0	0.000	0.498
28G130012	234 KINGSTON DRIVE	31	SAM & MADHU, LLC	9911 GRANDVIEW FOREST COURT, SAINT LOUIS, MO 63127	19140	931	0.614	0	0.000	0	0.000	0	0.000	0.614
28G410013	200 KINGSTON DRIVE	32	TIERRA ASSET MANAGEMENT, LLC, KINGSTON DRIVE SJS, LLC, AD KINGSTON DRIVE, LLC & CREATIVE VISION HOMES, LLC	1777 WASHINGTON CROSSING, UNIT 1844, WASHINGTON, MO 63090	DEED DOC. 2022033100060 (PARCEL 2)		2.796	0	0.000	0	0.000	4534	0.104	2.796

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STATE OF MISSOURI
DENNIS J KOSCIELSKI
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RIGHT OF WAY IMPACTS TABLE
SHEET 1 OF 2

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PARCEL IDENTIFIER	PARCEL ADDRESS	PARCEL NUMBER ON PLANS	OWNER NAME	OWNER ADDRESS	DB	PG	ORIGINAL AREA (ACRES)	NEW R/W (SFT)	NEW R/W (ACRES)	PERMANENT EASEMENT (SFT)	PERMANENT EASEMENT (ACRES)	TEMPORARY CONSTRUCTION EASEMENT (T.C.E.) (SFT)	TEMPORARY CONSTRUCTION EASEMENT (ACRES)	TOTAL REMAINDER (ACRES)
28G410189	150 KINGSTON DRIVE	33	MR YUMMY'S ENTERPRISES, LLC	5428 CHARGLOW COURTS, SAINT LOUIS, MO 63129	25188	40	0.400	0	0.000	0	0.000	214	0.005	0.400
28G410299	120 KINGSTON DRIVE	34	ZERILLI, JOSEPH A. & LESLIE A., H/W	5531 FIRERIDGE COURT, SAINT LOUIS, MO 63129	13039	2316	0.570	0	0.000	0	0.000	390	0.009	0.570
28H340012	389 KINGSTON DRIVE	28	GUZMAN, MICHAEL LEE & DESTRI	389 KINGSTON DRIVE, SAINT LOUIS, MO 63125	24314	54	0.103	0	0.000	158	0.004	0	0.000	0.103
28G432101	9931 S BROADWAY STREET	35	LEMAY HOMES, LLC	PO BOX 16356, SAINT LOUIS, MO 63125	21676	1913	0.170	0	0.000	0	0.000	122	0.003	0.170
28G432024	9929 S BROADWAY STREET	36	LEMAY HOMES, LLC	PO BOX 16356, SAINT LOUIS, MO 63125	21668	967	0.090	0	0.000	0	0.000	241	0.006	0.090
28G430853	9927 S BROADWAY STREET	37	CLEVELAND, JUSTIN J.	9925 S BROADWAY STREET, SAINT LOUIS, MO 63125	DEED DOC. 2022060300583		0.209	0	0.000	0	0.000	361	0.008	0.209
28G431834	9901 S BROADWAY STREET	38	LEMAY HOMES, LLC	PO BOX 16356, SAINT LOUIS, MO 63125	20718	119	0.139	103	0.002	90	0.002	60	0.001	0.137
27G441451	9900 S BROADWAY STREET	40	BEKIROV, BAYRAM, BEKIROV, KAMOL, & BEKIROV, RUSTAM	9348 FORMAN ROAD, SAINT LOUIS, MO 63123	24656	2883	0.510	195	0.004	74	0.002	0	0.000	0.506
28G431861	9853 S BROADWAY STREET	39	HANCOCK PLACE SCHOOL DISTRICT	7733 FORSYTH BOULEVARD, SUITE 2300, SAINT LOUIS, MO 63105	DEED DOC 2022091200410		0.125	59	0.001	0	0.000	0	0.000	0.124
27G112422	9825 S BROADWAY STREET	42	UNION ELECTRIC COMPANY OF MISSOURI	1901 GRATIOT STREET, SAINT LOUIS, MO 63166	3416	69	0.270	0	0.000	78	0.002	0	0.000	0.270
28G441462	9854 S BROADWAY STREET	41	HANCOCK PLACE SCHOOL DISTRICT	7733 FORSYTH BOULEVARD, SUITE 2200, SAINT LOUIS, MO 63105	DEED DOC. 2022091200410 (PARCEL 3, TRACT 1)		0.500	127	0.003	227	0.005	0	0.000	0.497
27G121864	9828 S BROADWAY STREET	43	THE INDUSTRIAL DEVELOPMENT AUTHORITY OF THE COUNTY OF ST. LOUIS, MISSOURI	9828 S BROADWAY STREET, SAINT LOUIS, MO 63125	17750	3829	2.390	0	0.000	0	0.000	140	0.003	2.390
27G120283	9806 S BROADWAY STREET	47	TRESSONS, LLC	2815 OLEDEL ROAD, SAINT LOUIS, MO 63125	24914	2277	0.425	0	0.000	0	0.000	345	0.008	0.425
27G110947	9801 S BROADWAY STREET	44	J&D BUILDING, LLC	9049 OLD LEMAY FERRY ROAD, HILLSBORO, MO 63050	25054	3282	0.129	0	0.000	38	0.001	0	0.000	0.129
27G120728	9736 S BROADWAY STREET	48	T-BOB'S AMUSEMENT, LLC	10938 VARGAS DRIVE, SAINT LOUIS, MO 63123	23262	1733	0.405	0	0.000	73	0.002	0	0.000	0.405
27G120993	9720 S BROADWAY STREET	49	FEXER, ALLAN K.	1000 VALENTINE STREET, FESTUS, MO 63028	24290	2615	0.030	0	0.000	168	0.004	0	0.000	0.030
27G111533	9737 S BROADWAY STREET	45	DOTY, WILLIAM H.	9737 S BROADWAY STREET, SAINT LOUIS, MO 63125	22342	1026	0.108	58	0.002	0	0.000	0	0.000	0.106
27G111515	9719 S BROADWAY STREET	46	SECOND CHRISTIAN FELLOWSHIP CHURCH	111 W FELTON AVENUE, SAINT LOUIS, MO 63125	18427	2593	0.108	0	0.000	0	0.000	47	0.001	0.108
27G112176	9701 S BROADWAY STREET	50	THOMAS G. WHITE & DAWN M. WHITE, TRUSTEES	PO BOX 5664, SAINT LOUIS, MO 63125	12422	481	0.150	0	0.000	10	0.000	0	0.000	0.150
27G140252	9622 S BROADWAY STREET	52	SINAK PROPERTIES LLC	PO BOX 20109, SAINT LOUIS, MO 63123	20872	196	0.138	0	0.000	8	0.000	0	0.000	0.138
27G130444	9621 S BROADWAY STREET	51	RAVEN LLC	9621 S BROADWAY STREET, SAINT LOUIS, MO 63125	DEED DOC. 2023080700048		0.194	40	0.001	0	0.000	0	0.000	0.193
27G140292	9620 S BROADWAY STREET	53	ELKING, SARKEESE J. & THERESA M., H/W	2952 HUBERT DRIVE, SAINT LOUIS, MO 63125	19546	1055	0.124	0	0.000	33	0.001	0	0.000	0.124
27G142214	9518 S BROADWAY STREET	54	LEMAY HOMES I, LP	1627 WASHINGTON AVENUE, SAINT LOUIS, MO 63103	21574	3830	0.190	80	0.002	122	0.003	4	0.000	0.188
27G141480	9510 S BROADWAY STREET	55	SUCHMAN, DAVID L. & REBECCA A., H/W	9510 S BROADWAY STREET, SAINT LOUIS, MO 63125	20046	1489	0.105	0	0.000	0	0.000	26	0.001	0.105
27G142030	9458 S BROADWAY STREET	56	O'DAY EDWAR & O'DAY SUSAN	9458 S BROADWAY STREET, SAINT LOUIS, MO 63125	25412	1953	0.211	0	0.000	81	0.002	0	0.000	0.211
27G420918	9442 S BROADWAY STREET	58	KTTB, L.L.C.	PO BOX 25047, SAINT LOUIS, MO 63125	15448	2201	0.132	0	0.000	226	0.005	0	0.000	0.132
27G421353	9410 S BROADWAY STREET	59	LEMAY HOMES I, LP	1627 WASHINGTON AVENUE, SAINT LOUIS, MO 63103	21574	3823 (PARCEL 34)	0.140	0	0.000	251	0.006	0	0.000	0.140
27G421287	9405 S BROADWAY STREET	57	SCHOOL DISTRICT OF HANCOCK PLACE	9101 S BROADWAY STREET, SAINT LOUIS, MO 63125	18328	1791	2.310	0	0.000	0	0.000	467	0.011	2.310
27G420990	260 HOFFMEISTER AVENUE	60	7-ELEVEN, INC	1722 ROUTH STREET, SUITE 1000, DALLAS, TX 75201	19506	1835	0.388	167	0.004	111	0.003	0	0.000	0.384
27G420853	9311 S BROADWAY STREET	61	SPIRIT ENERGY, LLC	9305 S BROADWAY STREET, SAINT LOUIS, MO 63125	14390	1471	0.595	0	0.000	74	0.002	0	0.000	0.595
27G420462	9305 S BROADWAY STREET	62	CARONDELET TOWNSHIP MEMORIAL POST BLDG. ASSN.	9305 S BROADWAY STREET, SAINT LOUIS, MO 63125	1994	3	1.727	0	0.000	0	0.000	473	0.011	1.727
27G530033	9201 S BROADWAY STREET	63	RIPPER, JOSEPH & FIELDER, PAMELA	9201 S BROADWAY STREET, SAINT LOUIS, MO 63125	22764	3913	0.156	0	0.000	34	0.001	0	0.000	0.156
27G530055	9137 S BROADWAY STREET	64	BROOKS, KENNETH RAY JR.	715 EMIL DRIVE, ARNOLD, MO 63010	DEED DOC. 2024092500121		0.146	0	0.000	16	0.000	0	0.000	0.146
27G530651	9101 S BROADWAY STREET	65	SCHOOL DISTRICT OF HANCOCK PLACE	9101 S BROADWAY STREET, SAINT LOUIS, MO 63125	10025	1493	17.930	0	0.000	0	0.000	49	0.001	17.930
27G530624	9005 S BROADWAY STREET	66	9005 SOUTH BROADWAY TRUST	8915 S BROADWAY STREET, SAINT LOUIS, MO 63125	16648	1176	0.310	0	0.000	23	0.001	0	0.000	0.310
27G530440	8901 S BROADWAY STREET	67	ST. LOUIS COUNTY, MO. C/O DEPARTMENT OF HIGHWAYS & TRAFFIC	41 S CENTRAL AVENUE, SAINT LOUIS, MO 63105	18681	5197	0.150	0	0.000	873	0.020	0	0.000	0.150
N/A	8800 N BROADWAY STREET	68	ST. LOUIS COUNTY, MISSOURI	41 S CENTRAL AVENUE, SAINT LOUIS, MO 63105	19239	2057	4.625	0	0.000	767	0.018	0	0.000	4.625
						TOTALS		1312	0.031	8250	0.189	19554	0.449	
						TOTAL NO. OF PARCELS		13		29		32		

RIGHT OF WAY IMPACTS TABLE
SHEET 2 OF 2

LAYOUT	NS	01/2025
DRAWN	SMC	01/2025
REVIEWED	DJK	01/2025

STATE OF MISSOURI
DENNIS J KOSCIELSKI
NUMBER PE-2005000712
PROFESSIONAL ENGINEER

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DATE PREPARED
7/25/2025

ROUTE	STATE
231	MO
DISTRICT	SHEET NO.
SL	80

COUNTY
ST. LOUIS

JOB NO.
J6S3631

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

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DESCRIPTION	DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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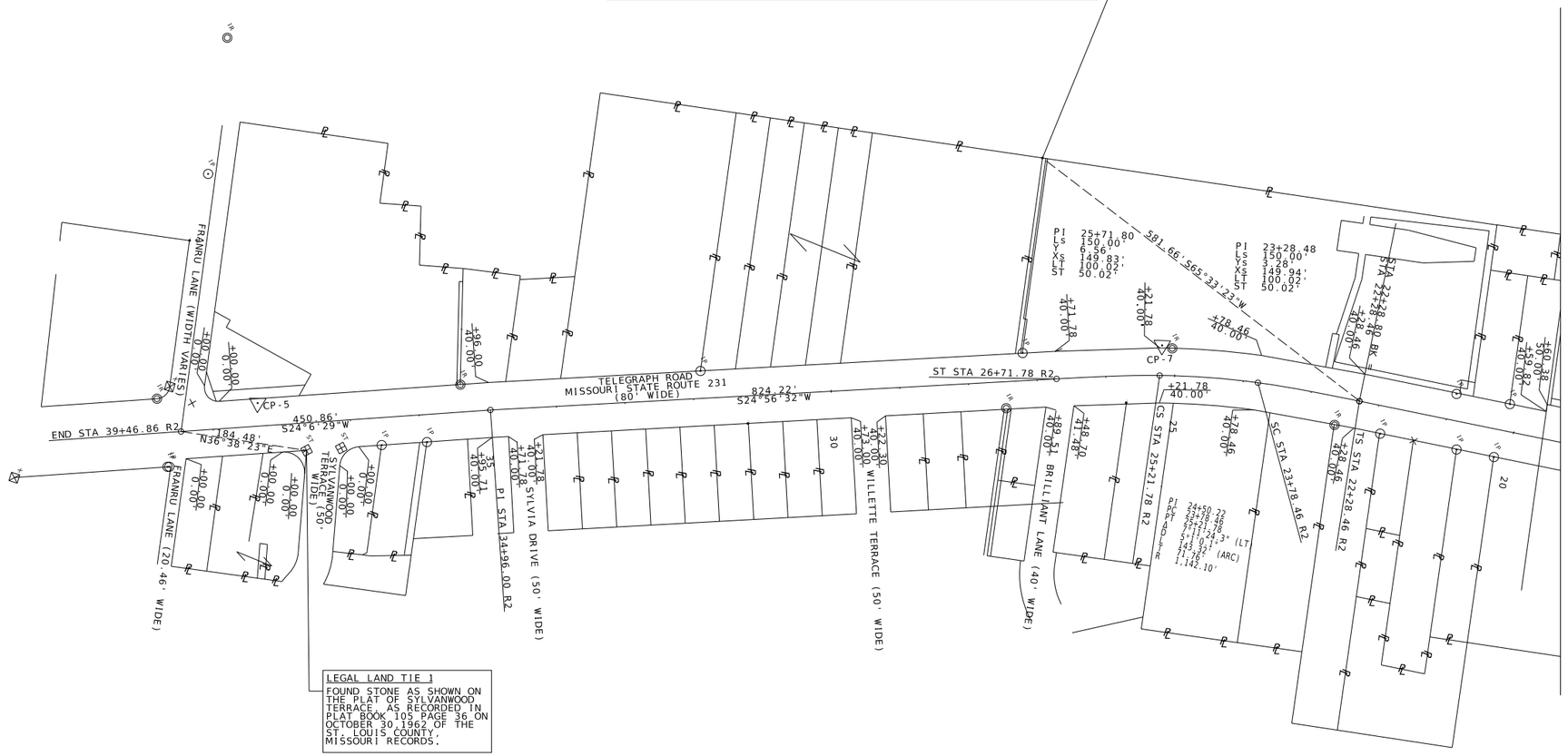
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SCALE

0 100 200 300 400 500

LEGAL LAND TIE 2

FOUND IRON ROD WITH CAP "L.S. 347-D" AS SHOWN AS BEING THE SOUTHWEST CORNER OF LOT A OF THE CONSOLIDATION PLAT OF PART OF LOT 1 AND 2 BLOCK 135 OF SUBDIVISION BY THE CITY OF CARONDELET COMMONS SOUTH OF RIVER DES PERES (PB. 5, PG. 72, ST. LOUIS CITY FORMER COUNTY RECORDS) AS RECORDED IN PLAT BOOK 366 PAGE 190 OF THE ST. LOUIS COUNTY RECORDS.



LEGAL LAND TIE 1

FOUND STONE AS SHOWN ON THE PLAT OF SYLVANWOOD TERRACE AS RECORDED IN PLAT BOOK 105 PAGE 36 ON OCTOBER 30, 1962 OF THE ST. LOUIS COUNTY, MISSOURI RECORDS.

CONTROL ROUTE SURVEY NOTES:

1. SEE SPECIAL SHEETS FOR ROW CENTER LINE OF ROUTE 231.
2. SEE REFERENCE POINT SHEET FOR LOCATION OF CONTROL POINTS ON SURVEY.
3. LOCATION CONTROL SURVEY COMPLETED BY EFK MOEN
4. PROJECT LOCATION LOCATED WITHIN COUNDARIES OF US SURVEY. NO SECTION CORNERS AVAILABLE IN PROJECT VICINITY
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6. SEE ROW PLAN SHEETS FOR PARCEL NUMBERS AND PARCEL OWNERS.
7. SEE ROW PLAN SHEETS FOR ROW AND EASEMENT TAKINGS.
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9. SEE COORDINATE POINT SPECIAL SHEET FOR SURVEY FACTORS AND OTHER SURVEY DETAILS.

LAYOUT	NS	01/2025
DRAWN	SMC	01/2025
REVIEWED	DJK	01/2025

CONTROL SURVEY SHEETS
SHEET 1 OF 8

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DENNIS J KOSCIELSKI
NUMBER PE-2005000712
PROFESSIONAL ENGINEER

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DATE PREPARED
7/25/2025

ROUTE	STATE
231	MO
DISTRICT	SHEET NO.
SL	81

COUNTY
ST. LOUIS

JOB NO.
J6S3631

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION	DATE

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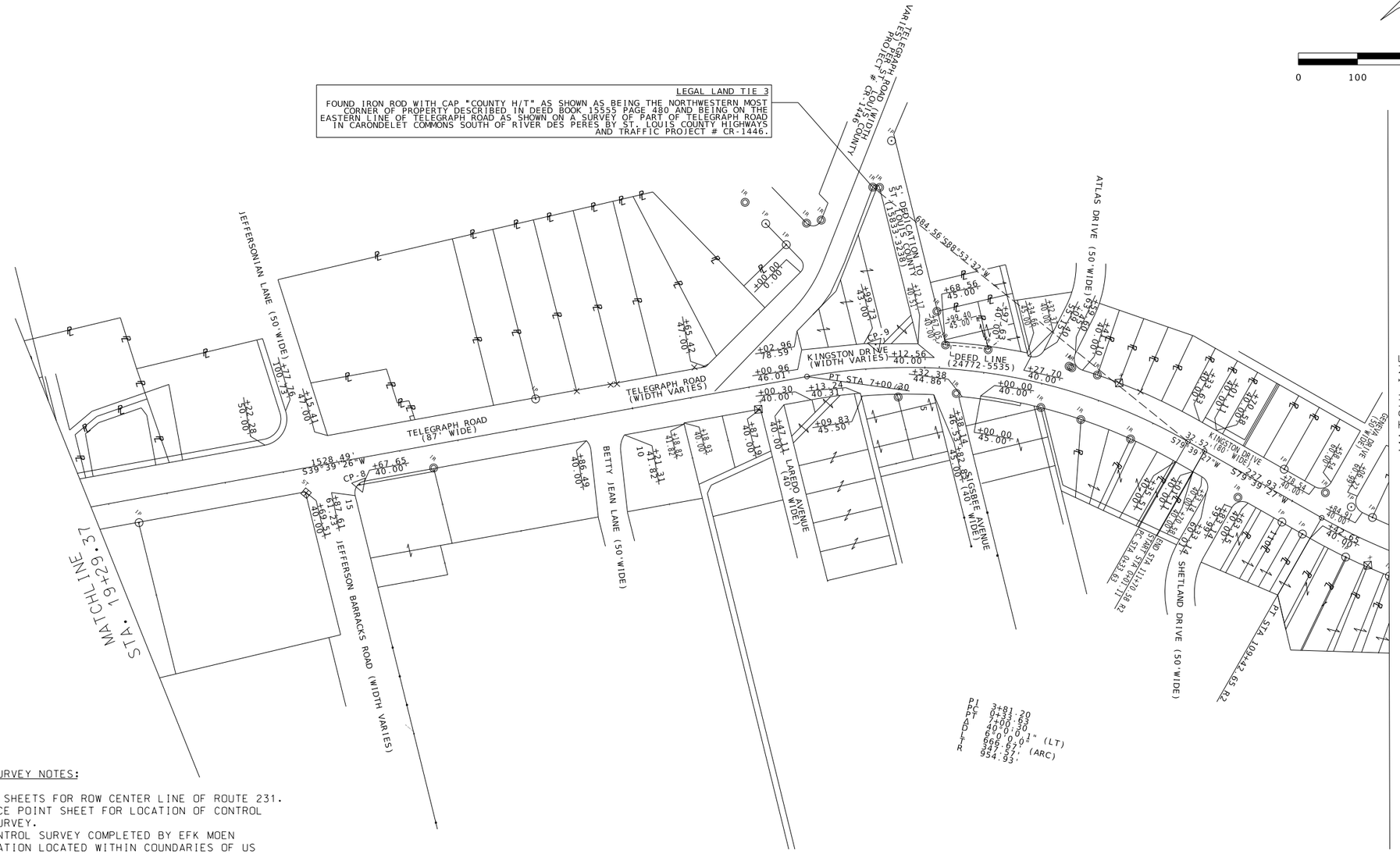
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SCALE
0 100 200 300 400 500

LEGAL LAND TIE 3
FOUND IRON ROD WITH CAP "COUNTY H/T" AS SHOWN AS BEING THE NORTHWESTERN MOST CORNER OF PROPERTY DESCRIBED IN DEED BOOK 15555 PAGE 480 AND BEING ON THE EASTERN LINE OF TELEGRAPH ROAD AS SHOWN ON A SURVEY OF PART OF TELEGRAPH ROAD IN CARONDELET COMMONS SOUTH OF RIVER DES PERES BY ST. LOUIS COUNTY HIGHWAYS AND TRAFFIC PROJECT # CR-1446.



CONTROL ROUTE SURVEY NOTES:

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LAYOUT	NS	01/2025
DRAWN	SMC	01/2025
REVIEWED	DJK	01/2025

CONTROL SURVEY SHEETS
SHEET 2 OF 8

STATE OF MISSOURI
DENNIS J KOSCIELSKI
NUMBER PE-2005000712
PROFESSIONAL ENGINEER

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DATE PREPARED 7/25/2025
ROUTE 231 | STATE MO
DISTRICT SL | SHEET NO. 82
COUNTY ST. LOUIS
JOB NO. J6S3631
CONTRACT ID.
PROJECT NO.
BRIDGE NO.

DATE	DESCRIPTION

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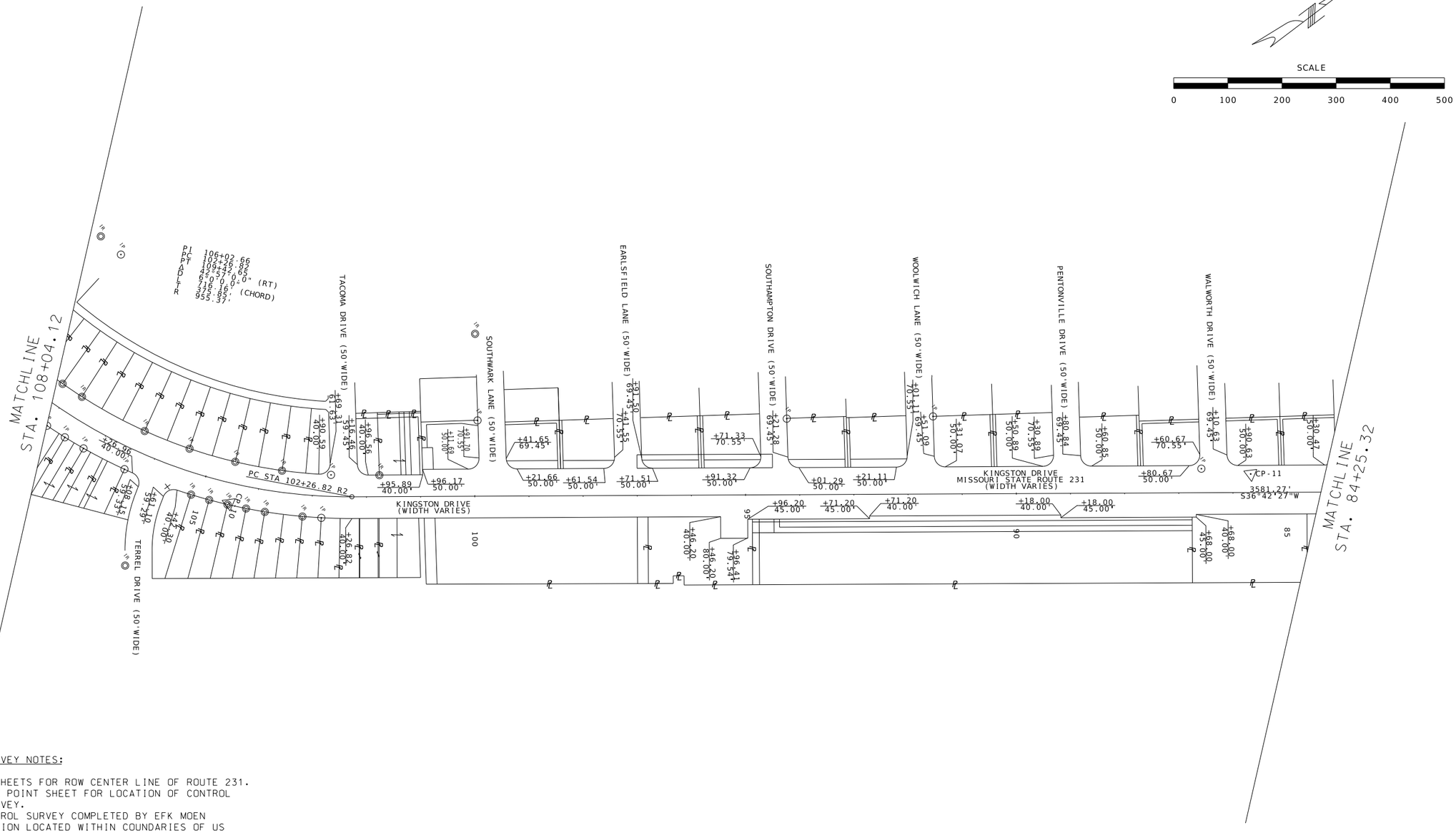
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LAYOUT	NS	01/2025
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REVIEWED	DJK	01/2025

CONTROL SURVEY SHEETS
SHEET 3 OF 8

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DENNIS J KOSCIELSKI
NUMBER PE-2005000712
PROFESSIONAL ENGINEER

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DATE PREPARED
7/25/2025

ROUTE	STATE
231	MO
DISTRICT	SHEET NO.
SL	83

COUNTY
ST. LOUIS

JOB NO.
J6S3631

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION	DATE

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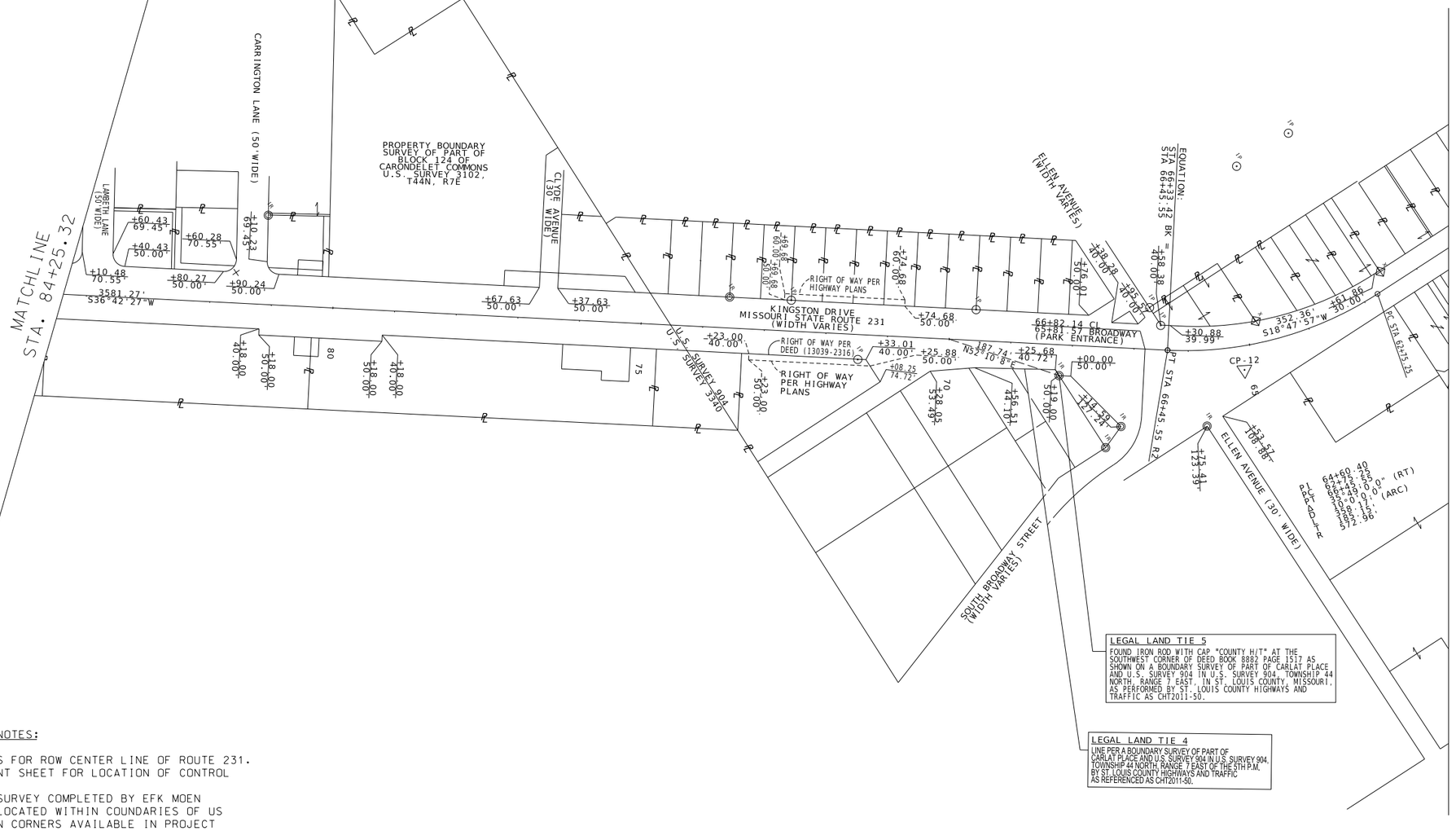
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LEGAL LAND TIE 5

FOUND IRON ROD WITH CAP "COUNTY H/T" AT THE SOUTHWEST CORNER OF DEED BOOK 8882 PAGE 1517 AS SHOWN ON A BOUNDARY SURVEY OF PART OF CARLAT PLACE AND U.S. SURVEY 904 IN U.S. SURVEY 904, TOWNSHIP 44 NORTH, RANGE 7 EAST, IN ST. LOUIS COUNTY, MISSOURI, AS PERFORMED BY ST. LOUIS COUNTY HIGHWAYS AND TRAFFIC AS CHT2011-50.

LEGAL LAND TIE 4

LINE PER A BOUNDARY SURVEY OF PART OF CARLAT PLACE AND U.S. SURVEY 904 IN U.S. SURVEY 904, TOWNSHIP 44 NORTH, RANGE 7 EAST OF THE 5TH P.M. BY ST. LOUIS COUNTY HIGHWAYS AND TRAFFIC AS REFERENCED AS CHT2011-50.

CONTROL ROUTE SURVEY NOTES:

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LAYOUT	NS	01/2025
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CONTROL SURVEY SHEETS
SHEET 4 OF 8

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STATE OF MISSOURI
DENNIS J KOSCIELSKI
NUMBER PE-2005000712
PROFESSIONAL ENGINEER

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DATE PREPARED
7/25/2025

ROUTE	STATE
231	MO
DISTRICT	SHEET NO.
SL	84

COUNTY
ST. LOUIS

JOB NO.
J6S3631

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DATE	DESCRIPTION

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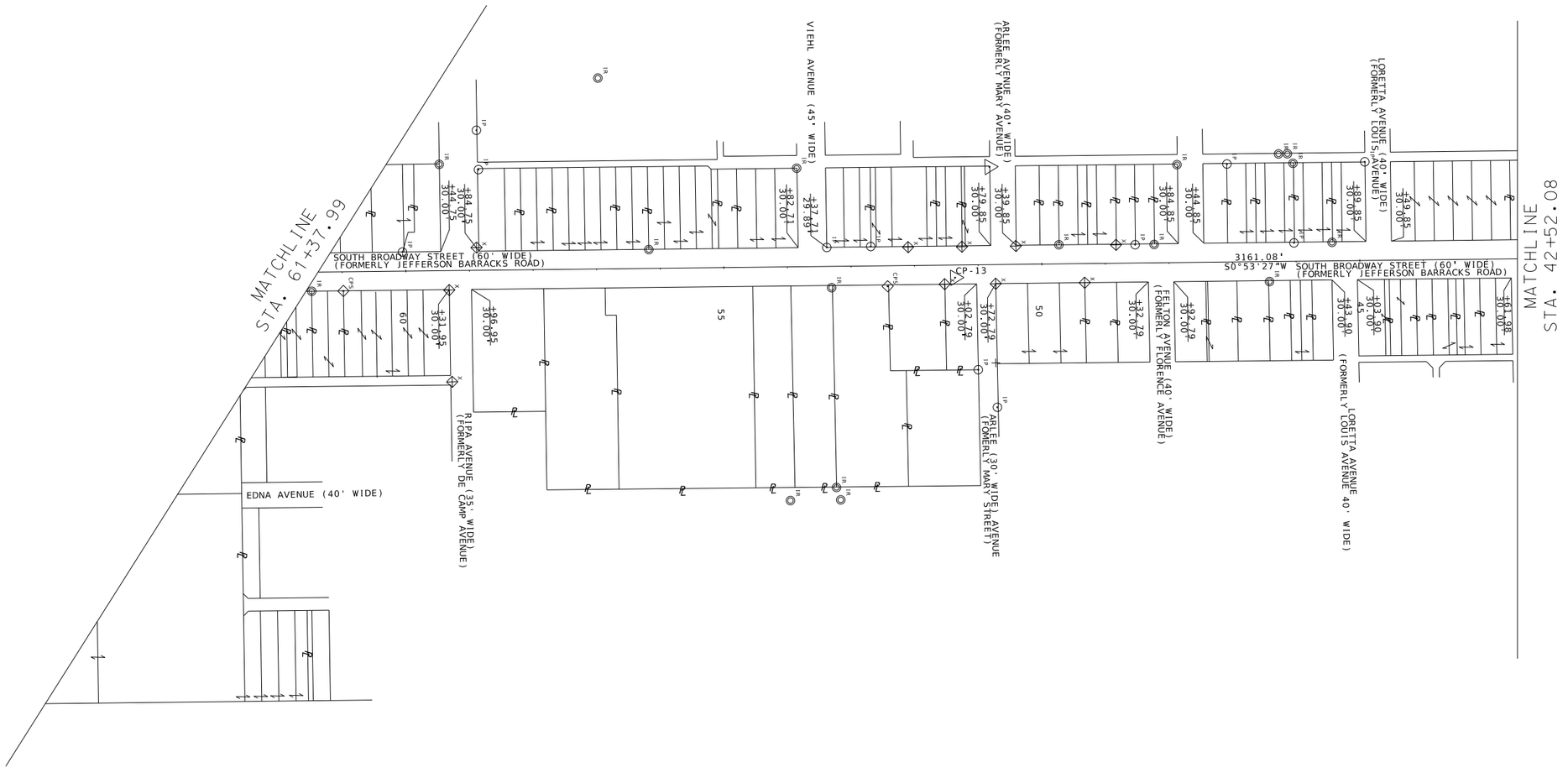
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CONTROL SURVEY SHEETS
SHEET 5 OF 8

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REVIEWED	DJK	01/2025

STATE OF MISSOURI
DENNIS J KOSCIELSKI
NUMBER PE-2005000712
PROFESSIONAL ENGINEER

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7/25/2025

ROUTE	STATE
231	MO
DISTRICT	SHEET NO.
SL	85

COUNTY
ST. LOUIS

JOB NO.
J6S3631

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION	DATE

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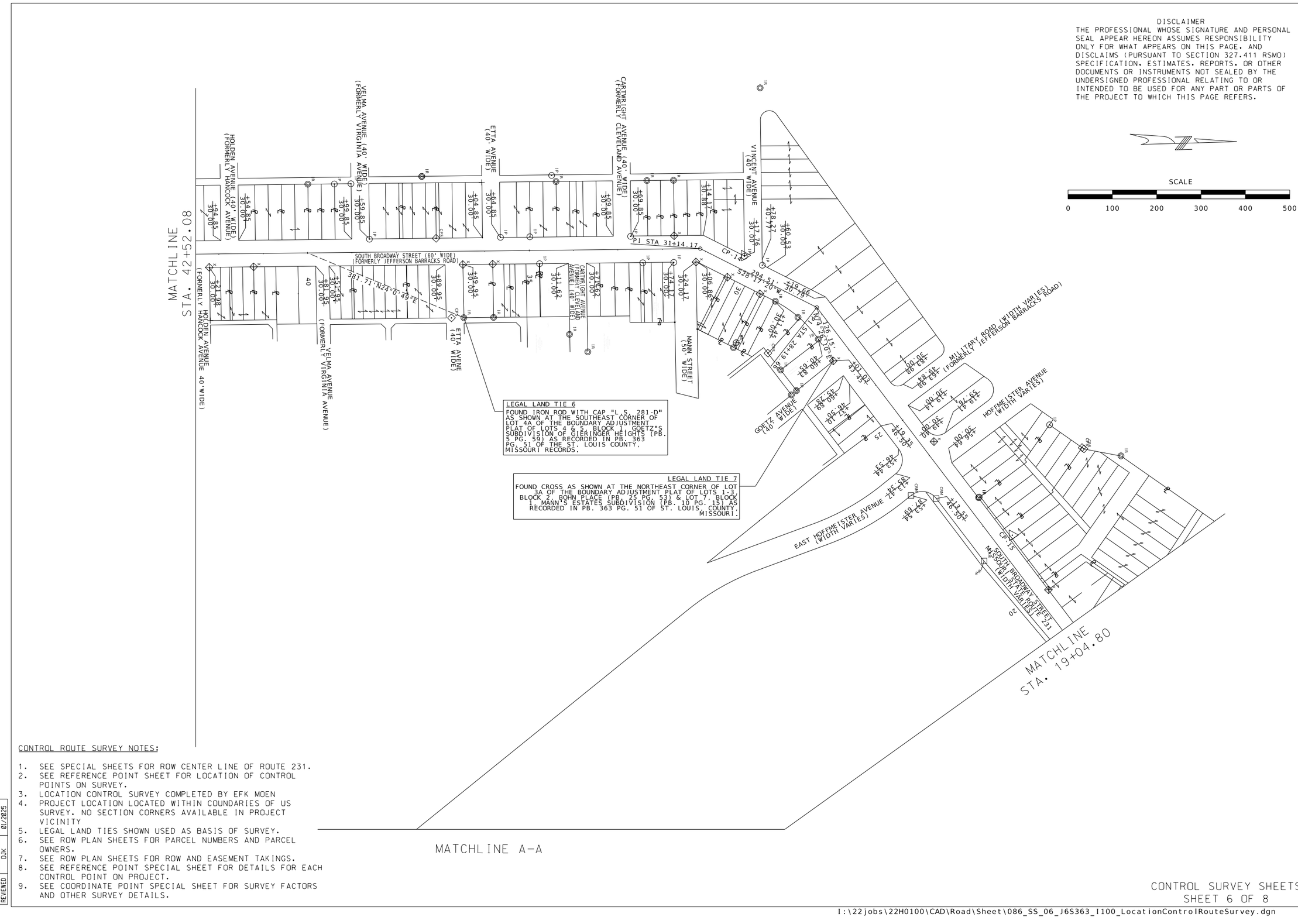
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CONTROL ROUTE SURVEY NOTES:

1. SEE SPECIAL SHEETS FOR ROW CENTER LINE OF ROUTE 231.
2. SEE REFERENCE POINT SHEET FOR LOCATION OF CONTROL POINTS ON SURVEY.
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LAYOUT	NS	01/2025
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CONTROL SURVEY SHEETS
SHEET 6 OF 8

STATE OF MISSOURI
DENNIS J KOSCIELSKI
NUMBER PE-2005000712
PROFESSIONAL ENGINEER

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DATE PREPARED	7/25/2025
ROUTE	231
STATE	MO
DISTRICT	SL
SHEET NO.	86
COUNTY	ST. LOUIS
JOB NO.	J6S3631
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

NO.	DESCRIPTION	DATE

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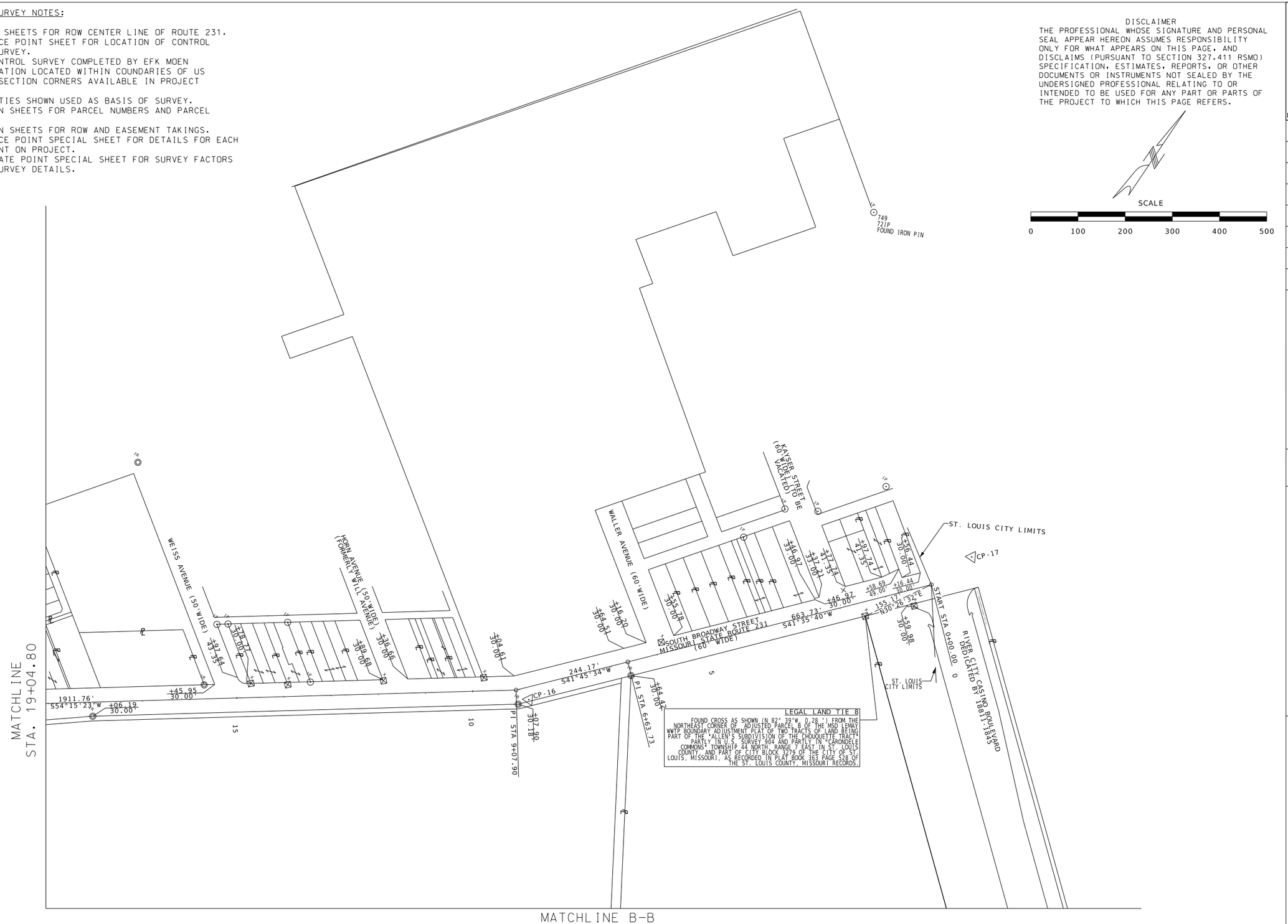
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ROUTE	STATE
231	MO
DISTRICT	SHEET NO.
SL	87

COUNTY
ST. LOUIS

JOB NO.
J6S3631

CONTRACT ID.

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CONTROL SURVEY SHEETS
SHEET 7 OF 8

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9. SEE COORDINATE POINT SPECIAL SHEET FOR SURVEY FACTORS AND OTHER SURVEY DETAILS.

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SCALE

0 100 200 300 400 500

MATCHLINE A-A

MATCHLINE B-B

748
721R
FOUND IRON ROD

CONTROL SURVEY SHEETS
SHEET 8 OF 8

LAYOUT	NS	01/2025
DRAWN	SMC	01/2025
REVIEWED	DJK	01/2025

STATE OF MISSOURI
DENNIS J KOSCIELSKI
NUMBER PE-2005000712
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED
7/25/2025

ROUTE	STATE
231	MO
DISTRICT	SHEET NO.
SL	88

COUNTY
ST. LOUIS

JOB NO.
J6S3631

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

DESCRIPTION	DATE

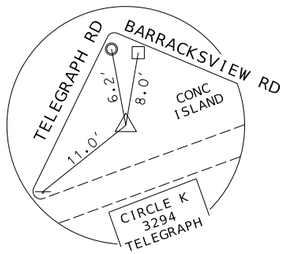
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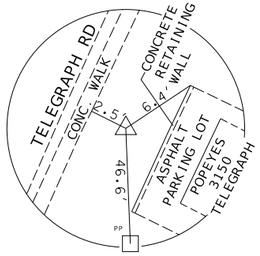
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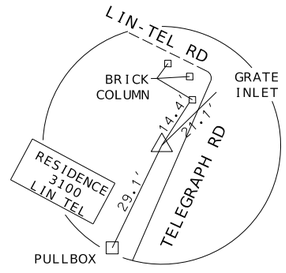
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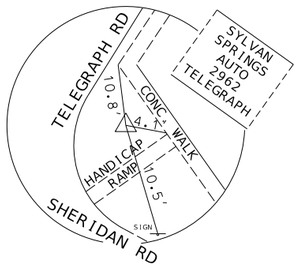
CONTROL POINT NO.1
CUT 'X' IN
CONCRETE ISLAND
N: 970014.618
E: 877374.558
ELEV: 529.88



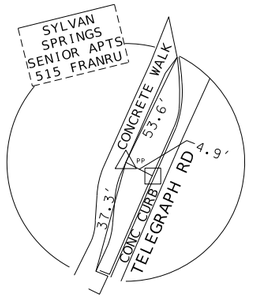
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N: 970557.373
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ELEV: 530.28



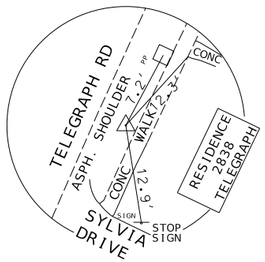
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ELEV: 519.46



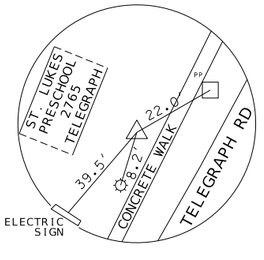
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ELEV: 520.71



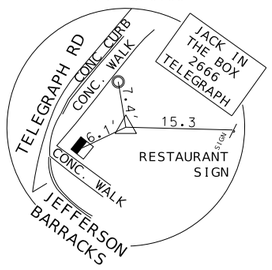
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ELEV: 519.92



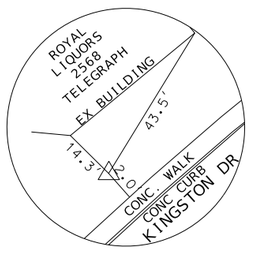
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MAG SPIKE
N: 973354.050
E: 878826.708
ELEV: 534.14



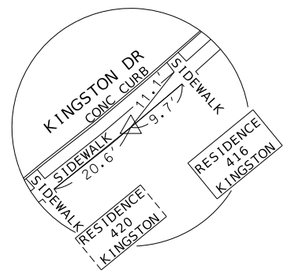
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E: 879146.007
ELEV: 550.08



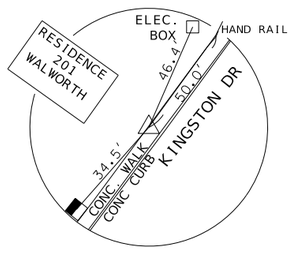
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ELEV: 565.47



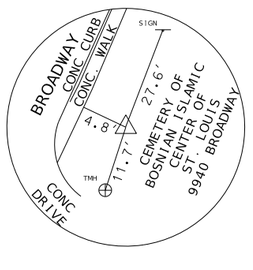
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CONCRETE MONUMENT W/
ALUMINUM DISK SL-09
N: 975715.858
E: 880382.157
ELEV: 562.67



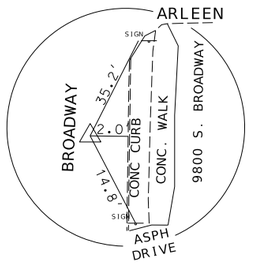
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ELEV: 498.68



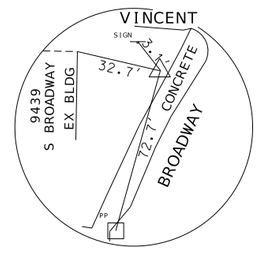
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ELEV: 535.24



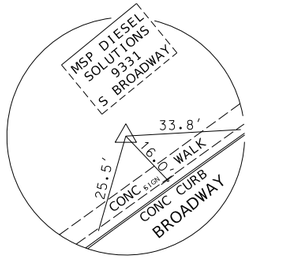
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ELEV: 460.11



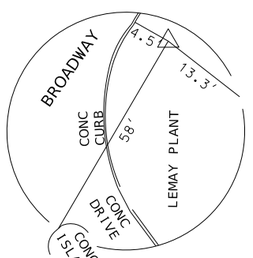
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MAG SPIKE
N: 980688.188
E: 884034.167
ELEV: 462.64



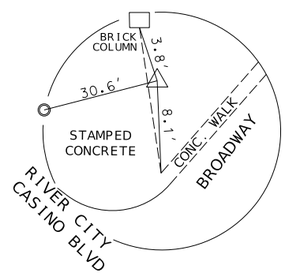
CONTROL POINT NO.14
SET IRON ROD W/CAP
N: 982809.784
E: 884063.904
ELEV: 510.91



CONTROL POINT NO.15
SET IRON ROD W/CAP
N: 983397.018
E: 884710.506
ELEV: 496.27



CONTROL POINT NO.16
SET IRON ROD W/CAP
N: 984085.097
E: 885770.700
ELEV: 447.10



CONTROL POINT NO.17
SET IRON ROD W/CAP
N: 984861.929
E: 886378.128
ELEV: 420.16

REFERENCE POINT SHEET
SHEET 1 OF 1

LAYOUT	NS	01/2025
DRAWN	SMC	01/2025
REVIEWED	DJK	01/2025

STATE OF MISSOURI
DENNIS J KOSCIELSKI
NUMBER PE-2005000712
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED
7/25/2025

ROUTE	STATE
231	MO
DISTRICT	SHEET NO.
SL	89

COUNTY
ST. LOUIS

JOB NO.
J6S3631

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DATE	DESCRIPTION

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MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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Coordinate Point Listing
Missouri Coordinate System of 1983 - EAST ZONE

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ALL PROJECT COORDINATES HAVE BEEN PROJECTED FROM THE MISSOURI STATE PLANE COORDINATE (SPC) SYSTEM OF 1983 USING AN AVERAGE PROJECT PROJECTION (GRID TO GROUND) FACTOR. TO GET BACK TO STATE PLANE COORDINATES, MULTIPLY THE PROJECT COORDINATES BY THE AVERAGE GRID FACTOR AS SHOWN IN THE "REFERENCE CONTROL INFORMATION PORTION OF THIS TABLE.

PROJECT COORDINATE INFORMATION	
COORDINATE SYSTEM	MODIFIED STATE PLANE
HORIZONTAL DATUM	NAD83
VERTICAL DATUM	NAVD88
GEOID MODEL	GEOID18
ELEVATIONS DETERMINED BY	CONVENTIONAL
PROJECT PROJECTION FACTOR	1.0000878

REFERENCE CONTROL INFORMATION	
COORDINATE SYSTEM	MODIFIED STATE PLANE
CONTROL STATION	SEE COORDINATE POINT LISTING TABLE
DESIGNATION	SL 09
CORS_ID	N/A
PID	AA8616
LATITUDE	38° 30′ 46.14029″
LONGITUDE	090° 17′ 23.87613″
NORTHING (M)	97372.684
EASTING (M)	268317.423
ZONE	2401 (MO-EAST)
PROJECT AVERAGE GRID FACTOR	0.9999122
GEODETIC CONTROL GRID FACTOR	0.99991538

EXAMPLE OF PROJECT COORDINATE TO S.P.C.

PROJECT NORTHING X AVERAGE GRID FACTOR
= STATE PLANE NORTHING
PROJECT EASTING X AVERAGE GRID FACTOR
= STATE PLANE EASTING

EXAMPLE: CONTROL POINT #
N 297,372.684 X 0.9999122 = N 297,346.575
E 268,317.423 X 0.9999122 = E 268,293.811

LINEAR UNIT CONVERSION

1 METER = 3.280833333 US SURVEY FEET (USFT)

COORDINATE POINT LISTING

SHEET NO	STATION	LOCATION	OFFSET (USFT)	MODIFIED STATE PLANE (GROUND) NORTHING (USFT)	EASTING (USFT)	ELEVATION (USFT)	DESCRIPTION	ORD POINT ID
PROJECT CONTROL POINTS								
1	38+32.13	RTE. 231	33.54′ LT	973,008.579	878,600.944	519.92	CUT 'X'	CP 5
1	34+24.73	RTE. 231	30.41′ RT	973,354.050	878,826.708	534.14	MAG SPIKE	CP 6
1	25+18.05	RTE. 231	43.77′ LT	974,208.020	879,146.007	550.08	SET IRON ROD WITH CAP	CP 7
2	14+75.57	RTE. 231	44.23′ RT	974,973.765	879,866.656	565.47	SET IRON ROD WITH CAP	CP 8
2	5+79.92	RTE. 231	40.25′ LT	975,715.858	880,382.157	562.67	CONCRETE MONUMENT WITH ALUMINUM DISK SL-09	CP 9
3	104+34.84	RTE. 231	37.25′ RT	976,156.601	881,615.576	498.68	CUT 'X'	CP 10
3	85+54.70	RTE. 231	34.07′ LT	977,696.202	882,707.239	535.24	CUT 'X'	CP 11
4	65+14.33	RTE. 231	38.77′ RT	979,302.238	883,979.030	460.11	SET IRON ROD WITH CAP	CP 12
5	51+36.51	RTE. 231	19.90′ RT	980,688.188	884,034.167	462.64	MAG SPIKE	CP 13
6	30+17.88	RTE. 231	31.39′ LT	982,809.784	884,063.904	510.91	SET IRON ROD WITH CAP	CP 14
6	21+43.84	RTE. 231	38.89	983,397.018	884,710.506	496.27	SET IRON ROD WITH CAP	CP 15
7	8+86.69	RTE. 231	26.24′ RT	984,085.097	885,770.700	447.10	SET IRON ROD WITH CAP	CP 16
ALIGNMENTS								
1	39+46.86	RTE. 231	0.00′ RT	972,890.873	878,584.993	N/A	RTE. 231/TELEGRAPH RD END STA.	N/A
1	26+71.78	RTE. 231	0.00′ RT	974,049.752	879,116.726	N/A	RTE. 231/TELEGRAPH RD. ST	N/A
2	7+00.30	RTE. 231	0.00′ RT	975,599.660	880,328.103	N/A	RTE. 231/KINGSTON DR. PT	N/A
2	109+42.65	RTE. 231	0.00′ RT	975,976.403	881,148.058	N/A	RTE. 231/KINGSTON DR. PT	N/A
3	102+26.82	RTE. 231	0.00′ RT	976,345.197	881,742.453	N/A	RTE. 231/KINGSTON DR. PC	N/A
4	66+45.55	RTE. 231	0.00′ RT	979,216.294	883,883.078	N/A	RTE. 231/BROADWAY ST. PT	N/A
4	62+75.25	RTE. 231	0.00′ RT	979,549.860	883,996.627	N/A	RTE. 231/BROADWAY ST. PC	N/A
6	31+14.17	RTE. 231	0.00′ RT	982,710.556	884,045.767	N/A	RTE. 231/BROADWAY ST. PI	N/A
6	28+19.66	RTE. 231	0.00′ RT	982,969.892	884,185.341	N/A	RTE. 231/BROADWAY ST. PI	N/A
7	9+07.90	RTE. 231	0.00′ RT	984,086.668	885,737.000	N/A	RTE. 231/BROADWAY ST. PI	N/A
7	6+63.73	RTE. 231	0.00′ RT	984,268.804	885,899.617	N/A	RTE. 231/BROADWAY ST. PI	N/A

COORDINATE POINT SHEET
SHEET 1 OF 1

LAYOUT	NS	01/2025
DRAWN	SMC	01/2025
REVIEWED	DJK	01/2025

STATE OF MISSOURI
DENNIS J KOSCIELSKI
NUMBER PE-2005000712
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED 7/25/2025
ROUTE 231 | STATE MO
DISTRICT SL | SHEET NO. 90
COUNTY ST. LOUIS
JOB NO. J6S3631
CONTRACT ID.
PROJECT NO.
BRIDGE NO.

DESCRIPTION	DATE

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

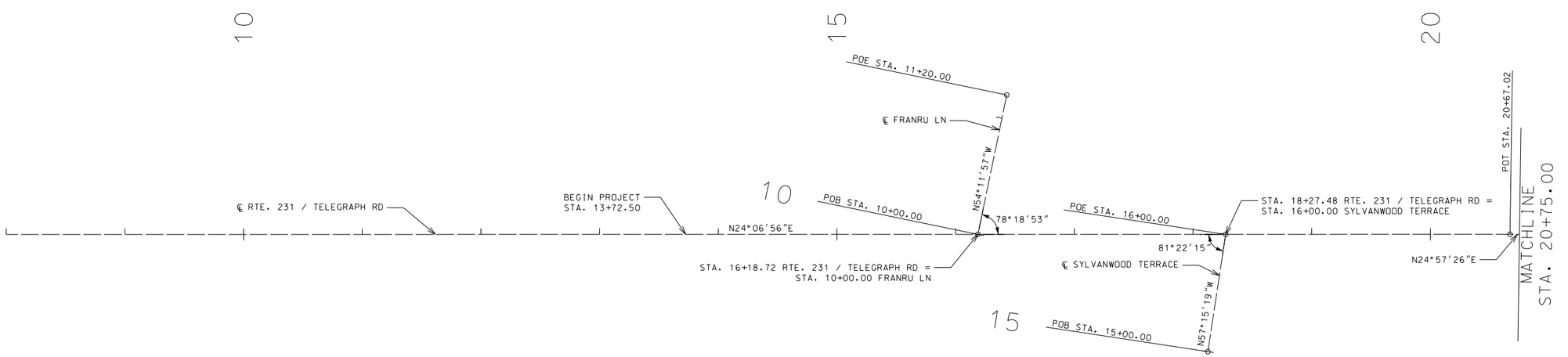
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SCALE
0 50 100 150



NOTES:
1. SEE DRIVEWAY PROFILES FOR DRIVEWAY DETAILS.
2. SEE ROW PLAN SHEETS FOR DRIVEWAY SKEW ANGLE.
3. SEE DRIVEWAY PROFILE SHEETS FOR THE TIE STATION FOR EACH DRIVEWAY ON ROUTE 231 CENTER LINE.

SIDE ROAD ALIGNMENT
SHEET 1 OF 13

LAYOUT	NS	01/2025
DRAWN	SMC	01/2025
REVIEWED	DJK	01/2025

STATE OF MISSOURI
DENNIS J KOSCIELSKI
NUMBER PE-2005000712
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED: 7/25/2025
ROUTE: 231 | STATE: MO
DISTRICT: SL | SHEET NO.: 91
COUNTY: ST. LOUIS
JOB NO.: J6S3631
CONTRACT ID.:
PROJECT NO.:
BRIDGE NO.:

DESCRIPTION	DATE

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

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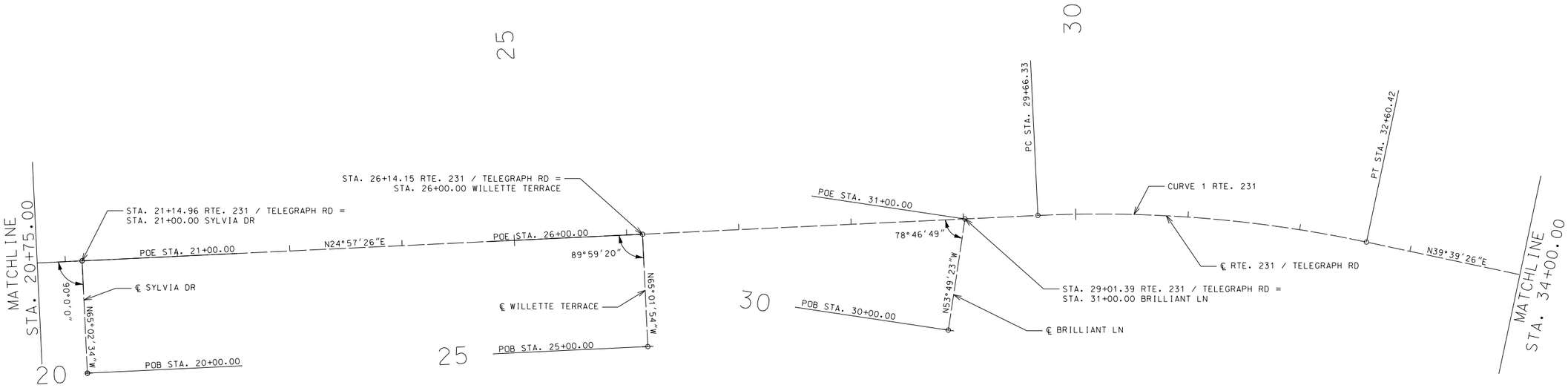
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CURVE 1 RTE. 231
PI 31+14.18
PC 29+66.33
PT 32+60.42
Δ 14°42'0.0" (RT)
D 4°59'54.3"
L 294.09' (ARC)
T 147.86'
R 1,146.28'

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SCALE
0 50 100 150



NOTES:
1. SEE DRIVEWAY PROFILES FOR DRIVEWAY DETAILS.
2. SEE ROW PLAN SHEETS FOR DRIVEWAY SKEW ANGLE.
3. SEE DRIVEWAY PROFILE SHEETS FOR THE TIE STATION FOR EACH DRIVEWAY ON ROUTE 231 CENTER LINE.

SIDE ROAD ALIGNMENT
SHEET 2 OF 13

LAYOUT	NS	01/2025
DRAWN	SMC	01/2025
REVIEWED	DJK	01/2025

STATE OF MISSOURI
DENNIS J KOSCIELSKI
NUMBER PE-2005000712
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED 7/25/2025
ROUTE 231 | STATE MO
DISTRICT SL | SHEET NO. 92
COUNTY ST. LOUIS
JOB NO. J6S3631
CONTRACT ID.
PROJECT NO.
BRIDGE NO.

DESCRIPTION	DATE

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
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JEFFERSON CITY, MO 65102
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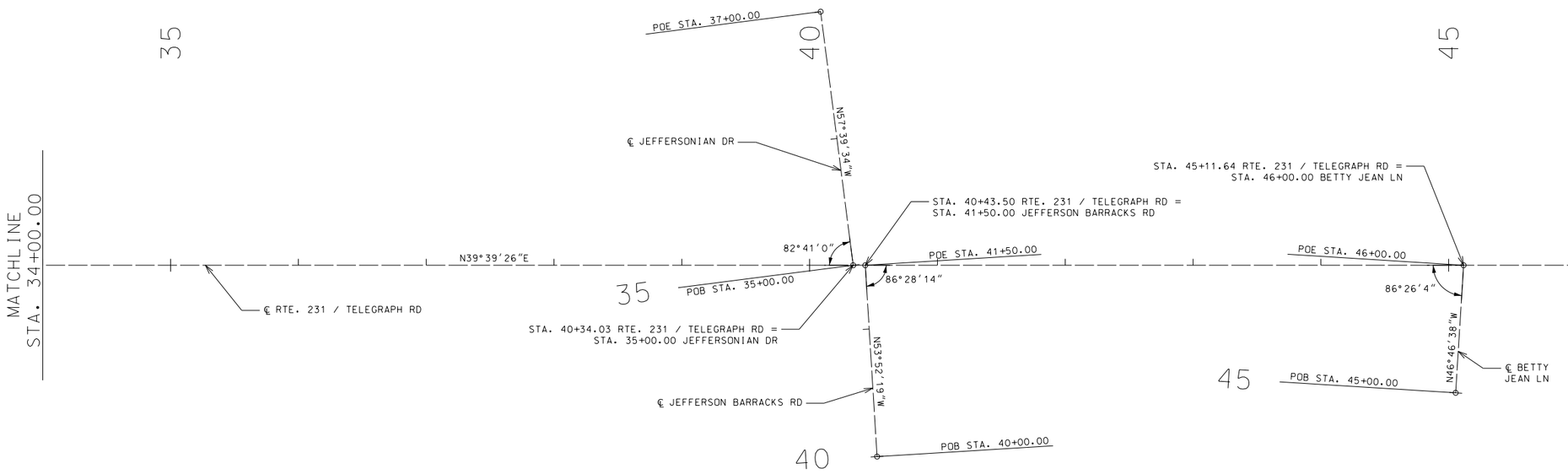
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SCALE
0 50 100 150



NOTES:
1. SEE DRIVEWAY PROFILES FOR DRIVEWAY DETAILS.
2. SEE ROW PLAN SHEETS FOR DRIVEWAY SKEW ANGLE.
3. SEE DRIVEWAY PROFILE SHEETS FOR THE TIE STATION FOR EACH DRIVEWAY ON ROUTE 231 CENTER LINE.

SIDE ROAD ALIGNMENT
SHEET 3 OF 13

LAYOUT	NS	01/2025
DRAWN	SMC	01/2025
REVIEWED	DJK	01/2025

STATE OF MISSOURI
DENNIS J KOSCIELSKI
NUMBER PE-2005000712
PROFESSIONAL ENGINEER

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DATE PREPARED: 7/25/2025
ROUTE: 231 | STATE: MO
DISTRICT: SL | SHEET NO.: 93
COUNTY: ST. LOUIS
JOB NO.: J6S3631
CONTRACT ID.:
PROJECT NO.:
BRIDGE NO.:

DESCRIPTION	DATE

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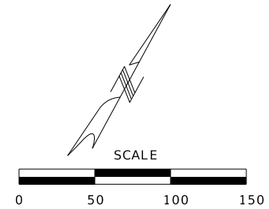
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CURVE 2 RTE. 231	
PI	52+10.65
PC	48+63.09
PT	55+29.75
Δ	40°0'0.1" (RT)
D	6°0'0.0"
L	666.67' (ARC)
T	347.57'
R	954.93'

CURVE 3 RTE. 231	
PI	61+66.06
PC	57+90.21
PT	65+06.37
Δ	42°57'0.0" (LT)
D	5°59'50.1"
L	716.16' (ARC)
T	375.85'
R	955.37'

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NOTES:
1. SEE DRIVEWAY PROFILES FOR DRIVEWAY DETAILS.
2. SEE ROW PLAN SHEETS FOR DRIVEWAY SKEW ANGLE.
3. SEE DRIVEWAY PROFILE SHEETS FOR THE TIE STATION FOR EACH DRIVEWAY ON ROUTE 231 CENTER LINE.

SIDE ROAD ALIGNMENT
SHEET 4 OF 13

LAYOUT	NS	01/2025
DRAWN	SMC	01/2025
REVIEWED	DJK	01/2025

STATE OF MISSOURI
DENNIS J KOSCIELSKI
NUMBER PE-2005000712
PROFESSIONAL ENGINEER

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DATE PREPARED
7/25/2025

ROUTE	STATE
231	MO
DISTRICT	SHEET NO.
SL	94

COUNTY
ST. LOUIS

JOB NO.
J6S3631

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION	DATE

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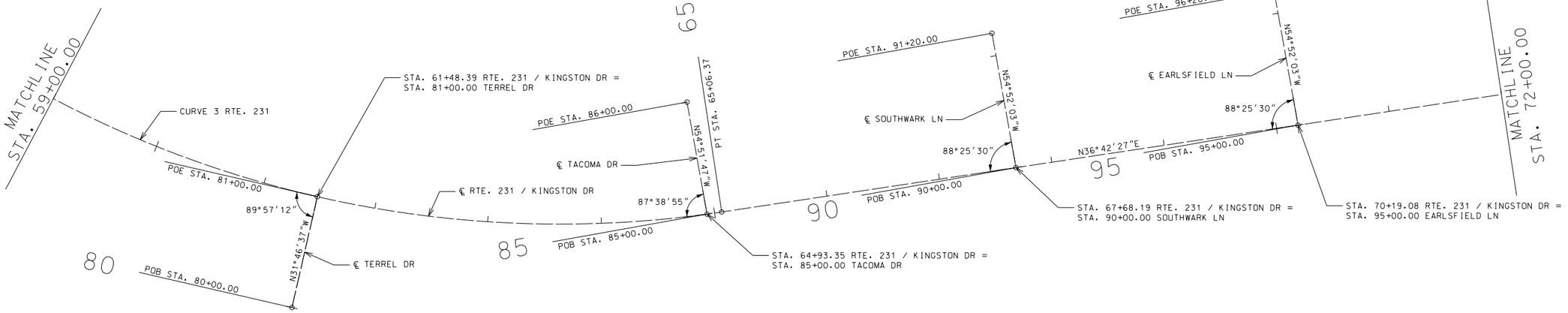
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CURVE 3 RTE. 231
PI 61+66.06
PC 57+90.21
PT 65+06.37
Δ 42°57'0.0" (LT)
D 5°59'50.1"
L 716.16' (ARC)
T 375.85'
R 955.37'

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SCALE
0 50 100 150



NOTES:
1. SEE DRIVEWAY PROFILES FOR DRIVEWAY DETAILS.
2. SEE ROW PLAN SHEETS FOR DRIVEWAY SKEW ANGLE.
3. SEE DRIVEWAY PROFILES FOR THE TIE STATION FOR EACH DRIVEWAY ON ROUTE 231 CENTER LINE.

SIDE ROAD ALIGNMENT
SHEET 5 OF 13

LAYOUT	NS	01/2025
DRAWN	SMC	01/2025
REVIEWED	DJK	01/2025

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DENNIS J KOSCIELSKI
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ROUTE 231 | STATE MO
DISTRICT SL | SHEET NO. 95
COUNTY ST. LOUIS
JOB NO. J6S3631
CONTRACT ID.
PROJECT NO.
BRIDGE NO.

DESCRIPTION	DATE

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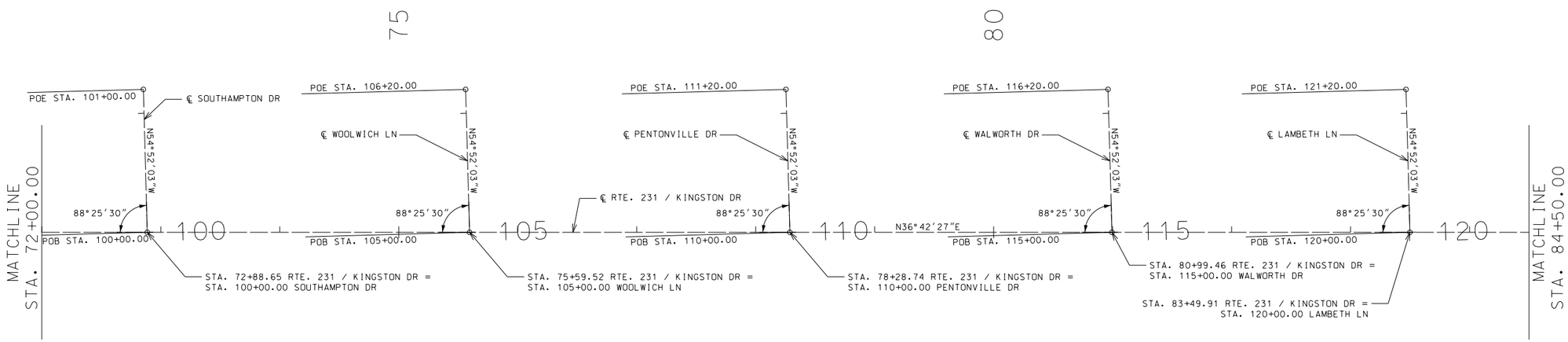
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NOTES:
1. SEE DRIVEWAY PROFILES FOR DRIVEWAY DETAILS.
2. SEE ROW PLAN SHEETS FOR DRIVEWAY SKEW ANGLE.
3. SEE DRIVEWAY PROFILE SHEETS FOR THE TIE STATION FOR EACH DRIVEWAY ON ROUTE 231 CENTER LINE.

SIDE ROAD ALIGNMENT
SHEET 6 OF 13

LAYOUT	NS	01/2025
DRAWN	SMC	01/2025
REVIEWED	DJK	01/2025

STATE OF MISSOURI
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231	MO
DISTRICT	SHEET NO.
SL	96

COUNTY: ST. LOUIS
JOB NO.: J6S3631
CONTRACT ID.:
PROJECT NO.:
BRIDGE NO.:

DESCRIPTION	DATE

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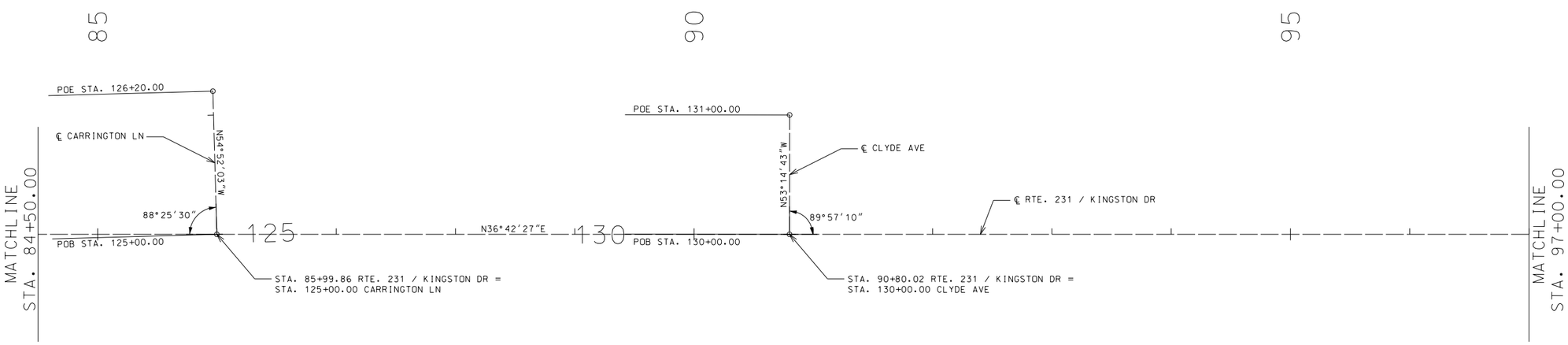
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NOTES:
1. SEE DRIVEWAY PROFILES FOR DRIVEWAY DETAILS.
2. SEE ROW PLAN SHEETS FOR DRIVEWAY SKEW ANGLE.
3. SEE DRIVEWAY PROFILE SHEETS FOR THE TIE STATION FOR EACH DRIVEWAY ON ROUTE 231 CENTER LINE.

SIDE ROAD ALIGNMENT
SHEET 7 OF 13

LAYOUT	NS	01/2025
DRAWN	SMC	01/2025
REVIEWED	DJK	01/2025

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ROUTE	STATE
231	MO
DISTRICT	SHEET NO.
SL	97

COUNTY
ST. LOUIS

JOB NO.
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PROJECT NO.

BRIDGE NO.

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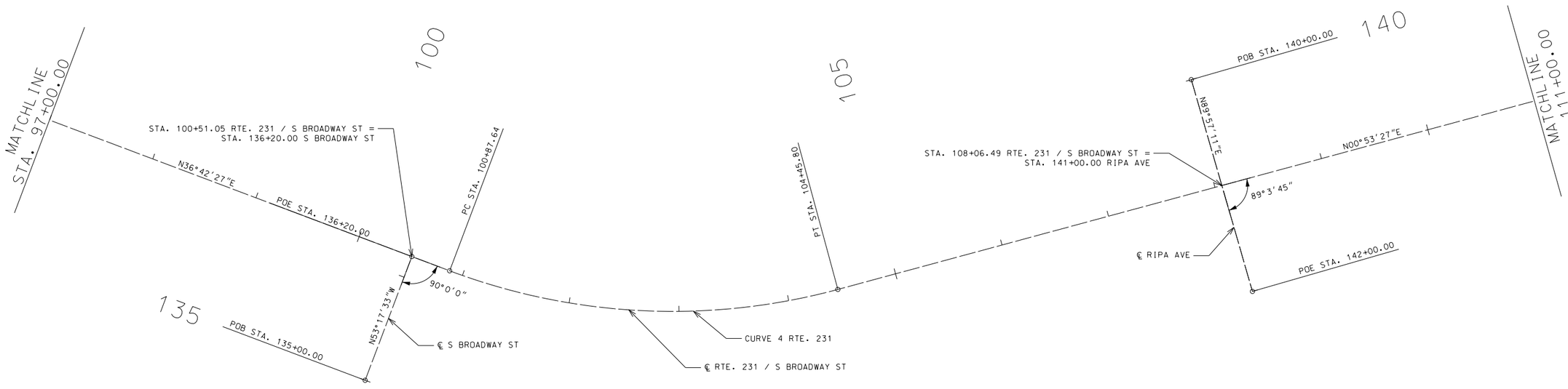
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CURVE 4 RTE. 231
PI 102+72.79
PC 100+87.64
PT 104+45.80
Δ 35°49'0.0" (LT)
D 10°0'0.0"
L 358.17' (ARC)
T 185.15'
R 572.96'

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NOTES:
1. SEE DRIVEWAY PROFILES FOR DRIVEWAY DETAILS.
2. SEE ROW PLAN SHEETS FOR DRIVEWAY SKEW ANGLE.
3. SEE DRIVEWAY PROFILE SHEETS FOR THE TIE STATION FOR EACH DRIVEWAY ON ROUTE 231 CENTER LINE.

SIDE ROAD ALIGNMENT
SHEET 8 OF 13

LAYOUT	NS	01/2025
DRAWN	SMC	01/2025
REVIEWED	DJK	01/2025

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DENNIS J KOSCIELSKI
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ROUTE	STATE
231	MO
DISTRICT	SHEET NO.
SL	98

COUNTY ST. LOUIS
JOB NO. J6S3631
CONTRACT ID.
PROJECT NO.
BRIDGE NO.

DESCRIPTION	DATE

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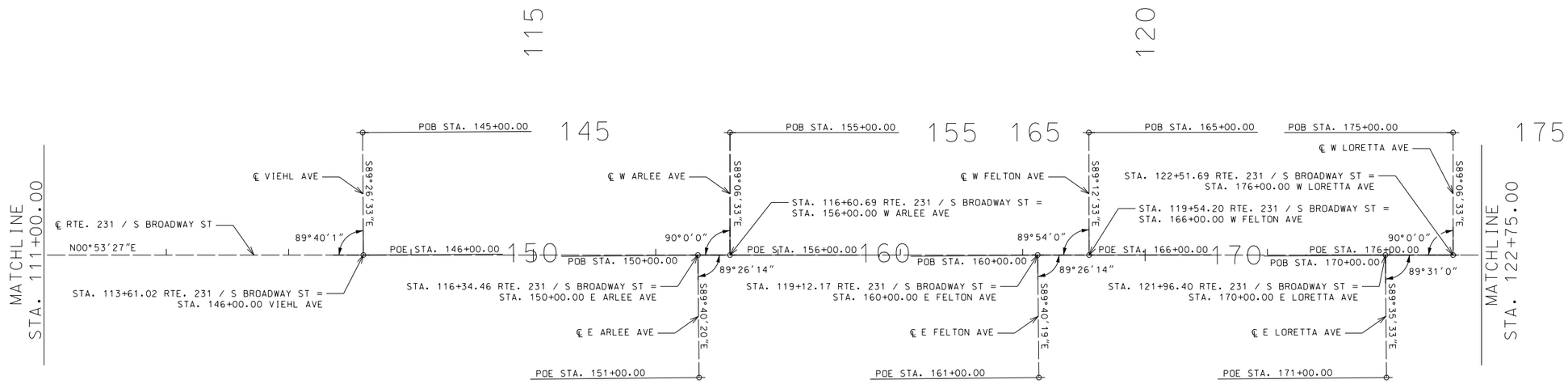
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SCALE
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NOTES:
1. SEE DRIVEWAY PROFILES FOR DRIVEWAY DETAILS.
2. SEE ROW PLAN SHEETS FOR DRIVEWAY SKEW ANGLES.
3. SEE DRIVEWAY PROFILE SHEETS FOR THE TIE STATION FOR EACH DRIVEWAY ON ROUTE 231 CENTER LINE.

SIDE ROAD ALIGNMENT
SHEET 9 OF 13

LAYOUT	NS	01/2025
DRAWN	SMC	01/2025
REVIEWED	DJK	01/2025

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DISTRICT SL | SHEET NO. 99
COUNTY ST. LOUIS
JOB NO. J6S3631
CONTRACT ID.
PROJECT NO.
BRIDGE NO.

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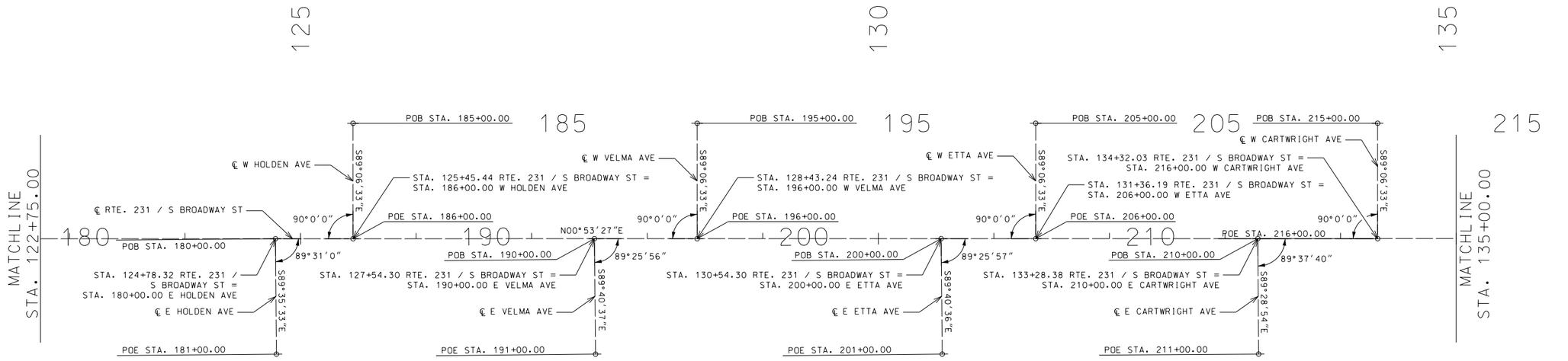
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SCALE
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NOTES:
1. SEE DRIVEWAY PROFILES FOR DRIVEWAY DETAILS.
2. SEE ROW PLAN SHEETS FOR DRIVEWAY SKEW ANGLE.
3. SEE DRAINAGE PROFILE SHEETS FOR THE TIE STATION FOR EACH DRIVEWAY ON ROUTE 231 CENTER LINE.

SIDE ROAD ALIGNMENT
SHEET 10 OF 13

LAYOUT	NS	01/2025
DRAWN	SMC	01/2025
REVIEWED	DJK	01/2025

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DENNIS J KOSCIELSKI
NUMBER PE-2005000712
PROFESSIONAL ENGINEER

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7/25/2025

ROUTE	STATE
231	MO
DISTRICT	SHEET NO.
SL	100

COUNTY
ST. LOUIS

JOB NO.
J6S3631

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

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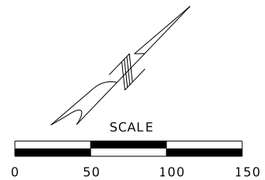
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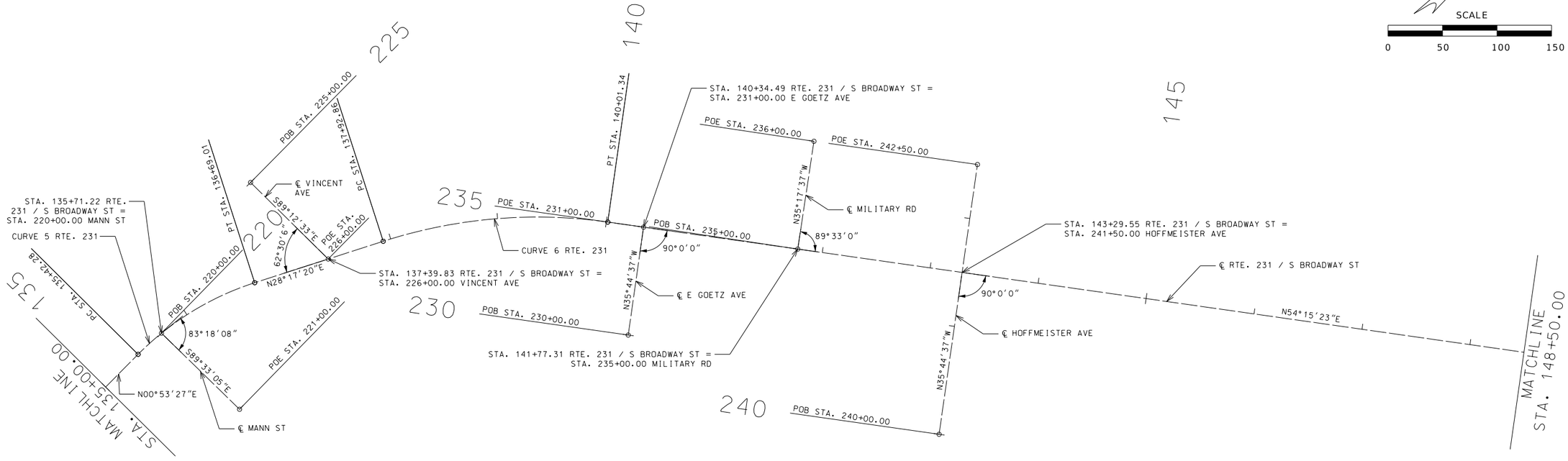
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CURVE 5 RTE. 231	
PI	136+06.88
PC	135+42.28
PT	136+69.01
Δ	27°23'53.9" (RT)
D	21°37'15.8"
L	126.72' (ARC)
T	64.60'
R	265.00'

CURVE 6 RTE. 231	
PI	138+98.92
PC	137+92.86
PT	140+01.34
Δ	25°58'2.2" (RT)
D	12°27'20.2"
L	208.48' (ARC)
T	106.06'
R	460.00'

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NOTES:
1. SEE DRIVEWAY PROFILES FOR DRIVEWAY DETAILS.
2. SEE ROW PLAN SHEETS FOR DRIVEWAY SKEW ANGLE.
3. SEE DRIVEWAY PROFILE SHEETS FOR THE TIE STATION FOR EACH DRIVEWAY ON ROUTE 231 CENTER LINE.

SIDE ROAD ALIGNMENT
SHEET 11 OF 13

LAYOUT	NS	01/2025
DRAWN	SMC	01/2025
REVIEWED	DJK	01/2025

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NUMBER PE-2005000712
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ROUTE	STATE
231	MO
DISTRICT	SHEET NO.
SL	101

COUNTY: ST. LOUIS
JOB NO.: J6S3631
CONTRACT ID.:
PROJECT NO.:
BRIDGE NO.:

DESCRIPTION	DATE

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CURVE 7 RTE. 231
PI 158+07.04
PC 157+52.29
PT 158+61.35
Δ 12°29'48.8" (LT)
D 11°27'33.0"
L 109.06' (ARC)
T 54.75'
R 500.00'

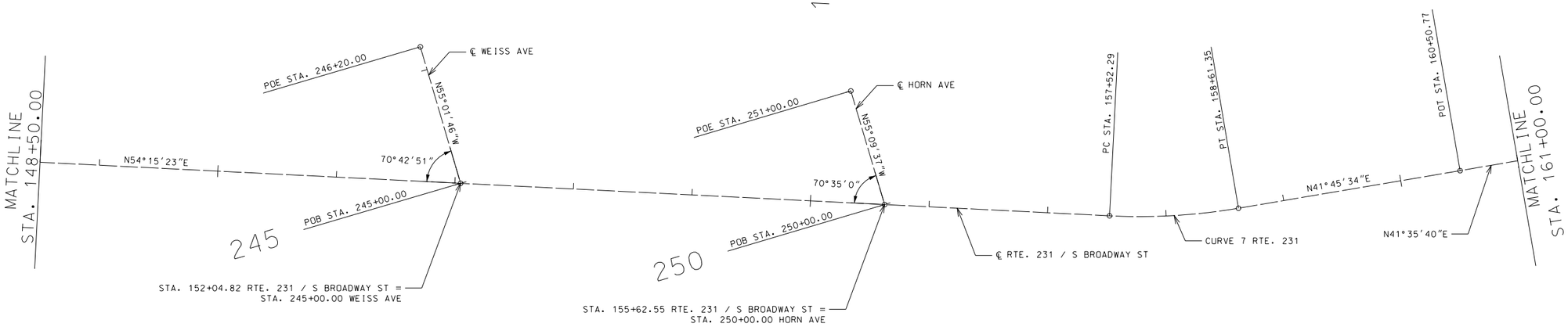
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SCALE
0 50 100 150

150

155

160



NOTES:
1. SEE DRIVEWAY PROFILES FOR DRIVEWAY DETAILS.
2. SEE ROW PLAN SHEETS FOR THE DRIVEWAY SKEW ANGLE.
3. SEE DRIVEWAY PROFILES FOR THE TIE STATION FOR EACH DRIVEWAY ON ROUTE 231 CENTER LINE.

SIDE ROAD ALIGNMENT
SHEET 12 OF 13

LAYOUT	NS	01/2025
DRAWN	SMC	01/2025
REVIEWED	DJK	01/2025

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DATE PREPARED 7/25/2025
ROUTE 231 | STATE MO
DISTRICT SL | SHEET NO. 102
COUNTY ST. LOUIS
JOB NO. J6S3631
CONTRACT ID.
PROJECT NO.
BRIDGE NO.

DESCRIPTION	DATE

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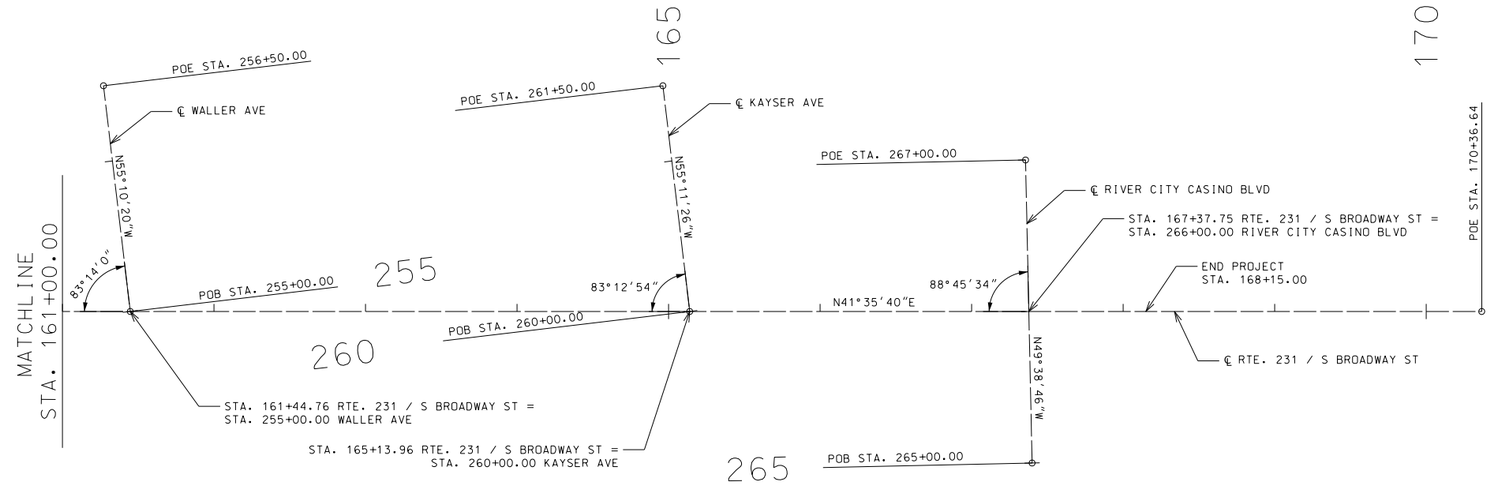
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SCALE
0 50 100 150



NOTES:
1. SEE DRIVEWAY PROFILES FOR DRIVEWAY DETAILS.
2. SEE ROW PLAN SHEETS FOR DRIVEWAY SKEW ANGLE.
3. SEE DRIVEWAY PROFILE SHEETS FOR THE TIE STATION FOR EACH DRIVEWAY ON ROUTE 231 CENTER LINE.

SIDE ROAD ALIGNMENT
SHEET 13 OF 13

LAYOUT	NS	01/2025
DRAWN	SMC	01/2025
REVIEWED	DJK	01/2025

STATE OF MISSOURI
DENNIS J KOSCIELSKI
NUMBER PE-2005000712
PROFESSIONAL ENGINEER

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DATE PREPARED: 7/25/2025
ROUTE: 231 | STATE: MO
DISTRICT: SL | SHEET NO.: 103
COUNTY: ST. LOUIS
JOB NO.: J6S3631
CONTRACT ID.:
PROJECT NO.:
BRIDGE NO.:

DESCRIPTION	DATE

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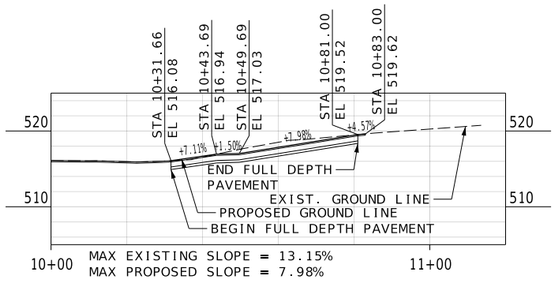
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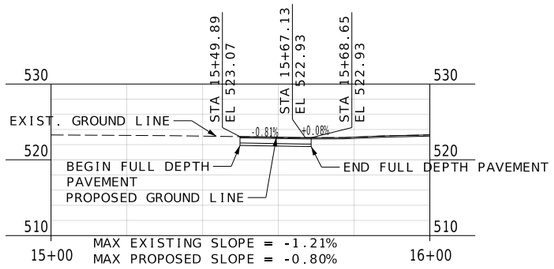
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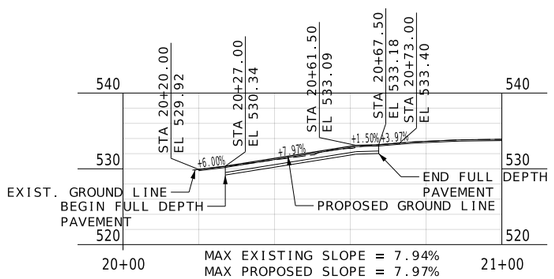
SIDE ROAD PROFILE - FRANRU LN
STA. 16+18.72 RTE. 231 = STA. 10+00.00 FRANRU LN
1" = 20' H, 1" = 10' V



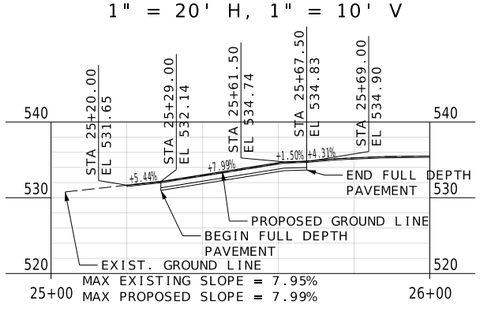
SIDE ROAD PROFILE - SYLVANWOOD TERRACE
STA. 18+27.48 RTE. 231 = STA. 16+00.00 SYLVANWOOD TERRACE
1" = 20' H, 1" = 10' V



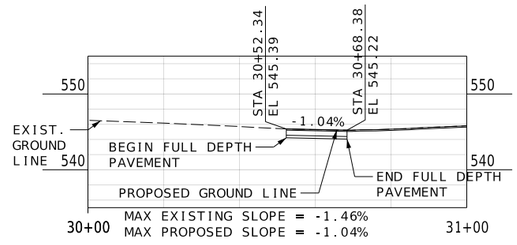
SIDE ROAD PROFILE - SYLVIA DR
STA. 21+14.96 RTE. 231 = STA. 21+00.00 SYLVIA DR
1" = 20' H, 1" = 10' V



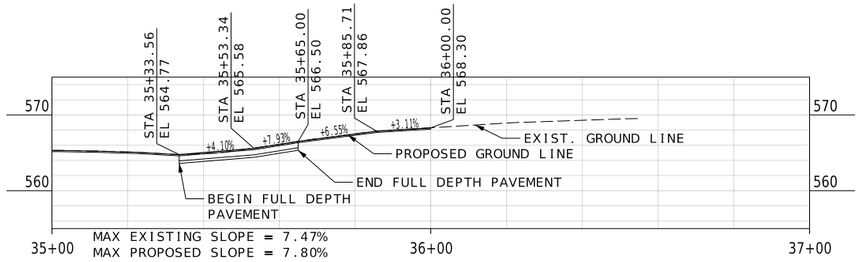
SIDE ROAD PROFILE - WILLETTE TERRACE
STA. 26+14.15 RTE. 231 = STA. 26+00.00 WILLETTE TERRACE
1" = 20' H, 1" = 10' V



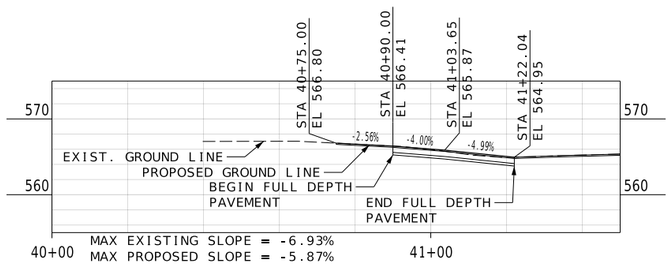
SIDE ROAD PROFILE - BRILLIANT LN
STA. 29+01.39 RTE. 231 = STA. 31+00.00 BRILLIANT LN
1" = 20' H, 1" = 10' V



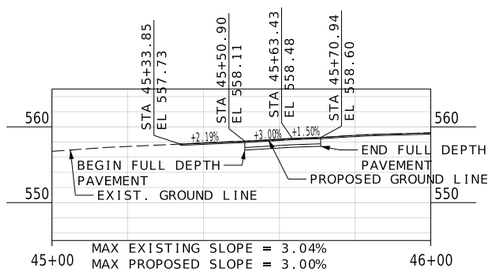
SIDE ROAD PROFILE - JEFFERSONIAN DR
STA. 40+34.03 RTE. 231 = STA. 35+00.00 JEFFERSONIAN DR
1" = 20' H, 1" = 10' V



SIDE ROAD PROFILE - JEFFERSON BARRACKS RD
STA. 40+43.50 RTE. 231 = STA. 41+50.00 JEFFERSON BARRACKS RD
1" = 20' H, 1" = 10' V



SIDE ROAD PROFILE - BETTY JEAN LN
STA. 45+11.64 RTE. 231 = STA. 46+00.00 BETTY JEAN LN
1" = 20' H, 1" = 10' V



SIDE ROAD PROFILE SHEETS
SHEET 1 OF 7

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DENNIS J. KOSCIELSKI
NUMBER PE-2005000712
PROFESSIONAL ENGINEER

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ROUTE	231
STATE	MO
DISTRICT	SL
SHEET NO.	104
COUNTY	ST. LOUIS
JOB NO.	J6S3631
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

DESCRIPTION	DATE

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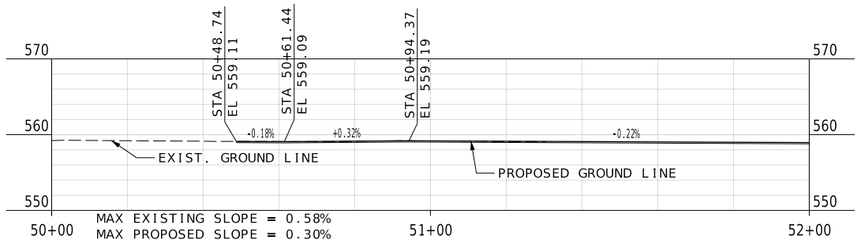
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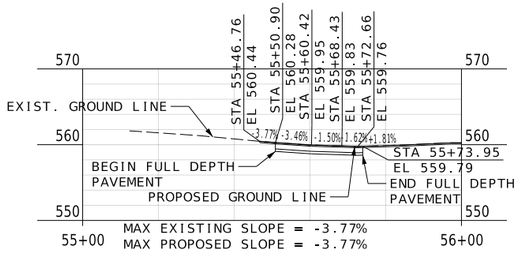
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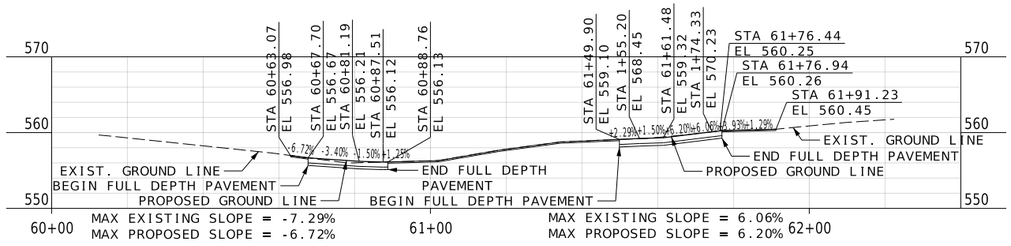
SIDE ROAD PROFILE - TELEGRAPH RD
STA. 47+00.35 RTE. 231 = STA. 50+00.00 TELEGRAPH RD
1" = 20' H, 1" = 10' V



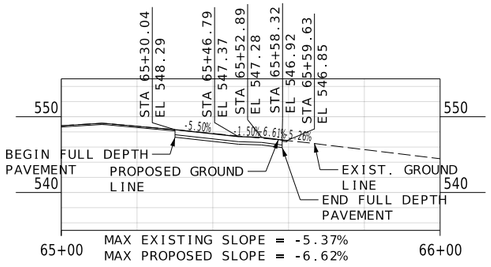
SIDE ROAD PROFILE - LAREDO AVE
STA. 47+92.32 RTE. 231 = STA. 56+00.00 LAREDO AVE
1" = 20' H, 1" = 10' V



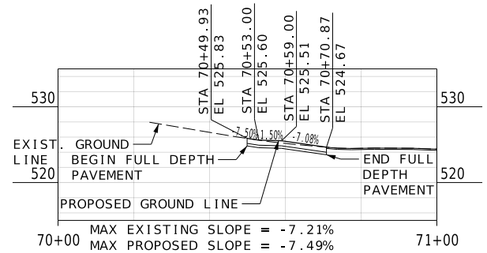
SIDE ROAD PROFILE - SIGSBEE AVE
STA. 50+87.35 RTE. 231 = STA. 61+20.00 SIGSBEE AVE
1" = 20' H, 1" = 10' V



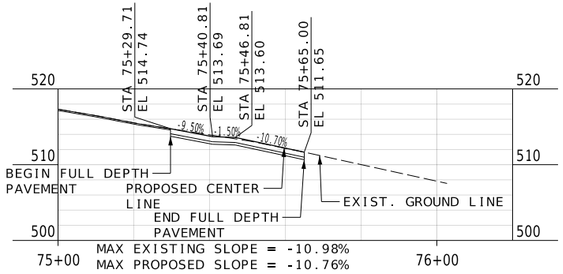
SIDE ROAD PROFILE - ATLAS DR
STA. 52+66.46 RTE. 231 = STA. 65+00.00 ATLAS DR
1" = 20' H, 1" = 10' V



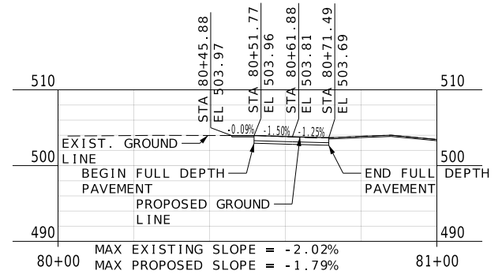
SIDE ROAD PROFILE - SHETLAND DR
STA. 56+25.22 RTE. 231 = STA. 71+00.00 SHETLAND DR
1" = 20' H, 1" = 10' V



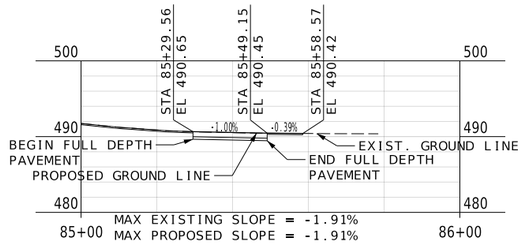
SIDE ROAD PROFILE - GENEVA DR
STA. 57+99.44 RTE. 231 = STA. 75+00.00 GENEVA DR
1" = 20' H, 1" = 10' V



SIDE ROAD PROFILE - TERREL DR
STA. 61+48.39 RTE. 231 = STA. 81+00.00 TERREL DR
1" = 20' H, 1" = 10' V



SIDE ROAD PROFILE - TACOMA DR
STA. 64+93.35 RTE. 231 = STA. 85+00.00 TACOMA DR
1" = 20' H, 1" = 10' V



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DENNIS J KOSCIELSKI
NUMBER PE-2005000712
PROFESSIONAL ENGINEER

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DATE PREPARED: 7/25/2025
ROUTE: 231 | STATE: MO
DISTRICT: SL | SHEET NO.: 105
COUNTY: ST. LOUIS
JOB NO.: J6S3631
CONTRACT ID.:
PROJECT NO.:
BRIDGE NO.:

DATE	DESCRIPTION

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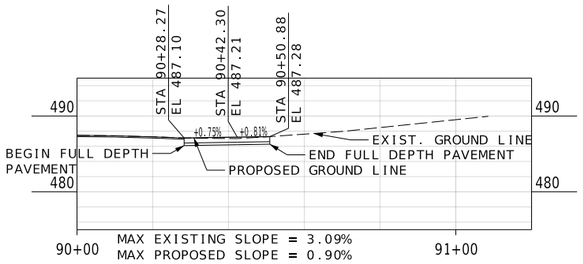
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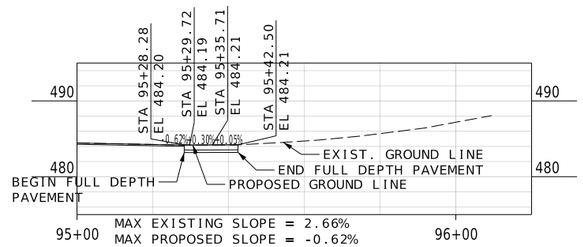
SIDE ROAD PROFILE SHEETS
SHEET 2 OF 7

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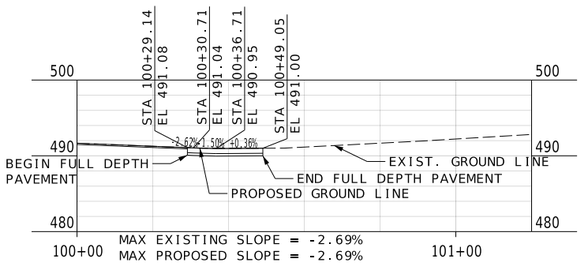
SIDE ROAD PROFILE - SOUTHWARK LN
STA. 67+68.19 RTE. 231 = STA. 90+00.00 SOUTHWARK LN
1" = 20' H, 1" = 10' V



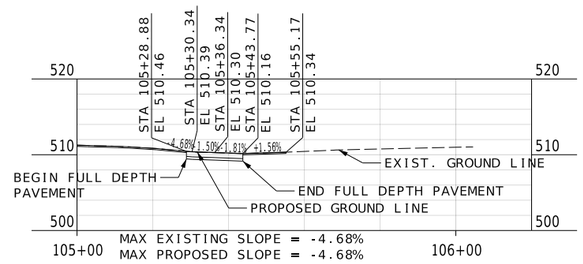
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STA. 70+19.08 RTE. 231 = STA. 95+00.00 EARLSFIELD LN
1" = 20' H, 1" = 10' V



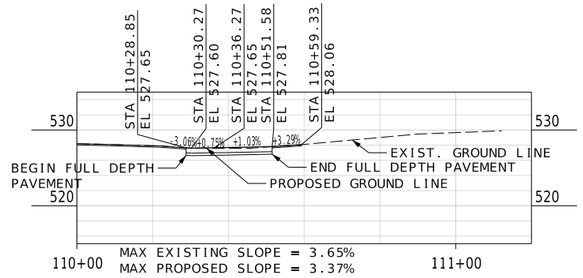
SIDE ROAD PROFILE - SOUTHAMPTON DR
STA. 72+88.65 RTE. 231 = STA. 100+00.00 SOUTHAMPTON DR
1" = 20' H, 1" = 10' V



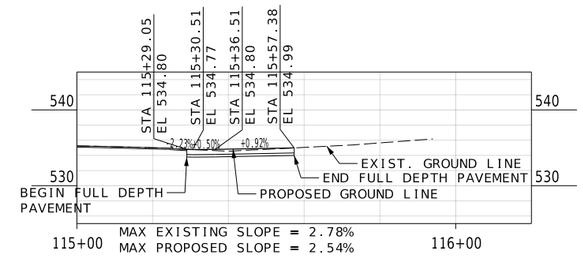
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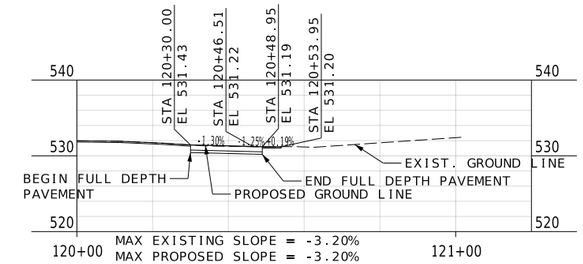
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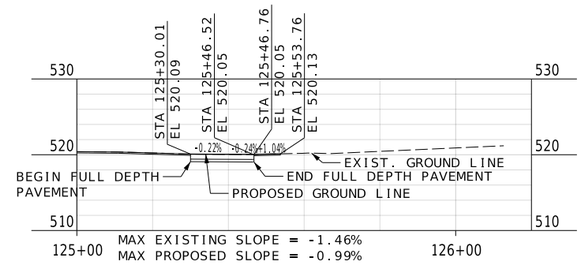
SIDE ROAD PROFILE - WALWORTH DR
STA. 80+99.46 RTE. 231 = STA. 115+00.00 WALWORTH DR
1" = 20' H, 1" = 10' V



SIDE ROAD PROFILE - LAMBETH LN
STA. 83+49.91 RTE. 231 = STA. 120+00.00 LAMBETH LN
1" = 20' H, 1" = 10' V



SIDE ROAD PROFILE - CARRINGTON LN
STA. 85+99.86 RTE. 231 = STA. 125+00.00 CARRINGTON LN
1" = 20' H, 1" = 10' V



SIDE ROAD
PROFILE SHEETS
SHEET 3 OF 7

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DENNIS J KOSCIELSKI
NUMBER PE-2005000712
PROFESSIONAL ENGINEER

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231	MO
DISTRICT	SHEET NO.
SL	106
COUNTY	
ST. LOUIS	
JOB NO.	
J6S3631	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

DESCRIPTION	DATE

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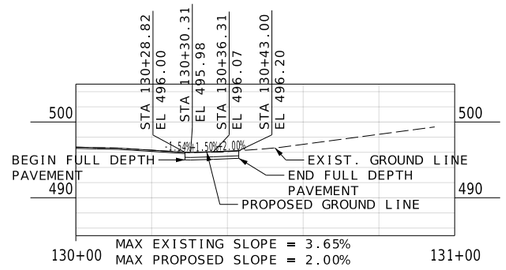
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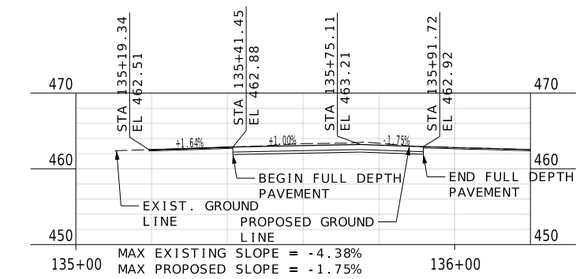
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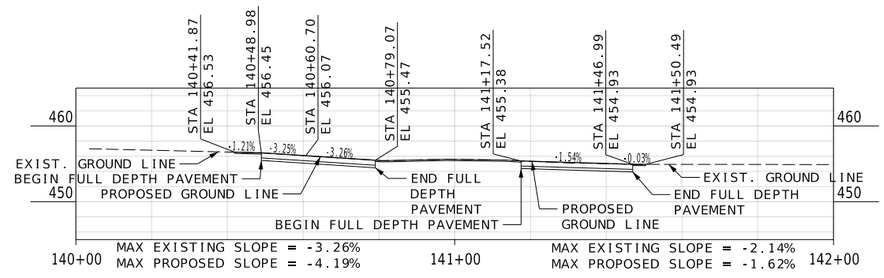
SIDE ROAD PROFILE - CLYDE AVE
STA. 90+80.02 RTE. 231 = STA. 130+00.00 CLYDE AVE
1" = 20' H, 1" = 10' V



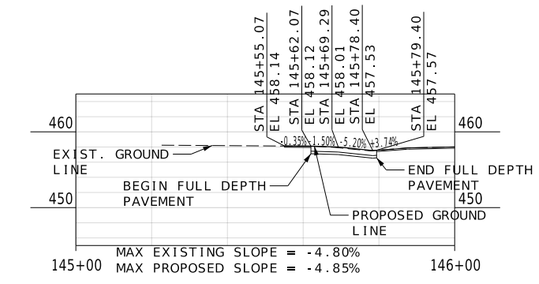
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1" = 20' H, 1" = 10' V



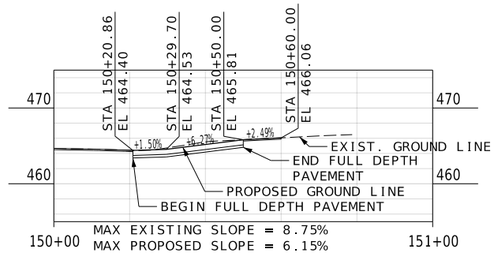
SIDE ROAD PROFILE - RIPA AVE
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1" = 20' H, 1" = 10' V



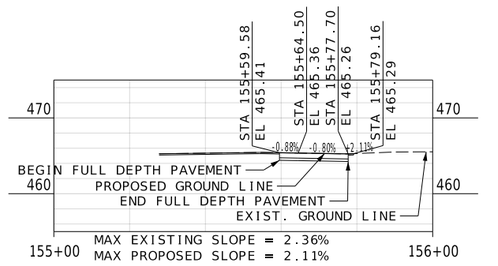
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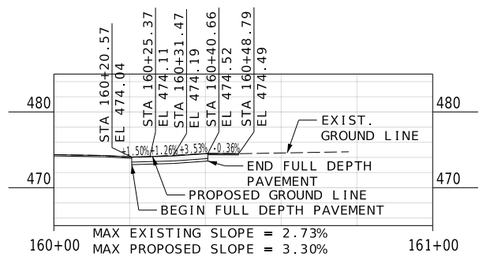
SIDE ROAD PROFILE - E ARLEE AVE
STA. 116+34.46 RTE. 231 = STA. 150+00.00 E ARLEE AVE
1" = 20' H, 1" = 10' V



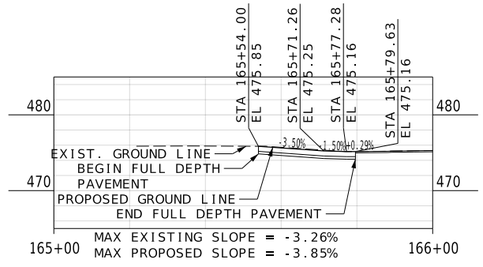
SIDE ROAD PROFILE - W ARLEE AVE
STA. 116+60.69 RTE. 231 = STA. 156+00.00 W ARLEE AVE
1" = 20' H, 1" = 10' V



SIDE ROAD PROFILE - E FELTON AVE
STA. 119+12.17 RTE. 231 = STA. 160+00.00 E FELTON AVE
1" = 20' H, 1" = 10' V



SIDE ROAD PROFILE - W FELTON AVE
STA. 119+54.20 RTE. 231 = STA. 166+00.00 W FELTON AVE
1" = 20' H, 1" = 10' V



SIDE ROAD
PROFILE SHEETS
SHEET 4 OF 7

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DENNIS J KOSCIELSKI
NUMBER PE-2005000712
PROFESSIONAL ENGINEER

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DATE PREPARED: 7/25/2025
ROUTE: 231 | STATE: MO
DISTRICT: SL | SHEET NO.: 107
COUNTY: ST. LOUIS
JOB NO.: J6S3631
CONTRACT ID.:
PROJECT NO.:
BRIDGE NO.:

DESCRIPTION	DATE

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JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

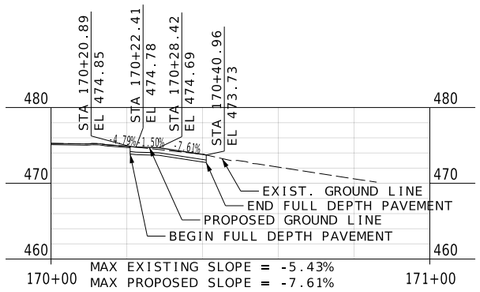
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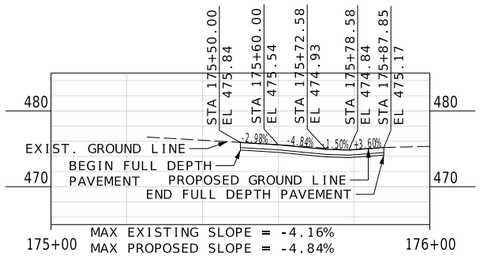
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DRAWN	SMC	01/2025
REVIEWED	DJK	01/2025

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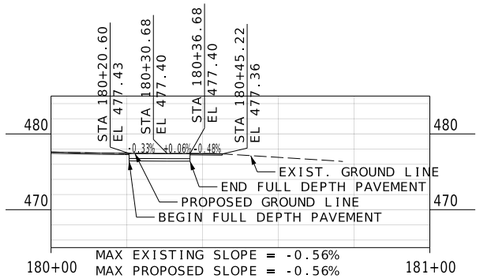
SIDE ROAD PROFILE - E LORETTA AVE
STA. 121+96.40 RTE. 231 = STA. 170+00.00 E LORETTA AVE
1" = 20' H, 1" = 10' V



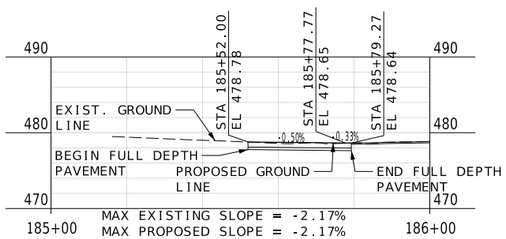
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STA. 122+51.69 RTE. 231 = STA. 176+00.00 W LORETTA AVE
1" = 20' H, 1" = 10' V



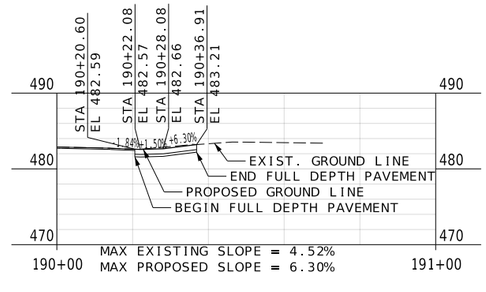
SIDE ROAD PROFILE - E HOLDEN AVE
STA. 124+78.32 RTE. 231 = STA. 180+00.00 E HOLDEN AVE
1" = 20' H, 1" = 10' V



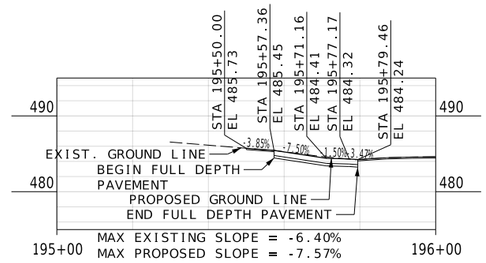
SIDE ROAD PROFILE - W HOLDEN AVE
STA. 125+45.44 RTE. 231 = STA. 186+00.00 W HOLDEN AVE
1" = 20' H, 1" = 10' V



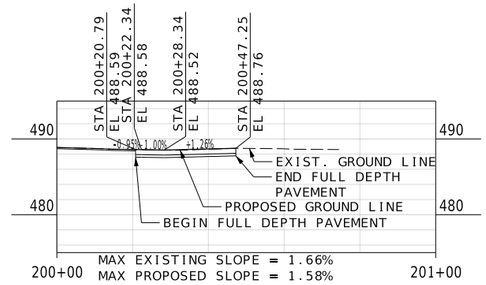
SIDE ROAD PROFILE - E VELMA AVE
STA. 127+54.30 RTE. 231 = STA. 190+00.00 E VELMA AVE
1" = 20' H, 1" = 10' V



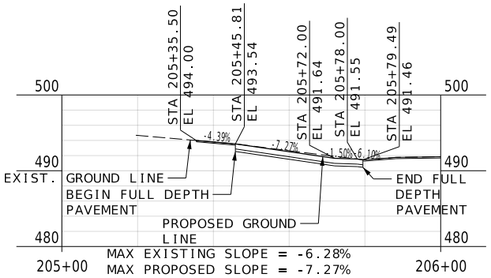
SIDE ROAD PROFILE - W VELMA AVE
STA. 128+43.24 RTE. 231 = STA. 196+00.00 W VELMA AVE
1" = 20' H, 1" = 10' V



SIDE ROAD PROFILE - E ETTA AVE
STA. 130+54.30 RTE. 231 = STA. 200+00.00 E ETTA AVE
1" = 20' H, 1" = 10' V



SIDE ROAD PROFILE - W ETTA AVE
STA. 131+36.19 RTE. 231 = STA. 206+00.00 W ETTA AVE
1" = 20' H, 1" = 10' V



SIDE ROAD
PROFILE SHEETS
SHEET 5 OF 7

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STATE OF MISSOURI
DENNIS J. KOSCIELSKI
NUMBER PE-2005000712
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED: 7/25/2025
ROUTE: 231 | STATE: MO
DISTRICT: SL | SHEET NO.: 108
COUNTY: ST. LOUIS
JOB NO.: J6S3631
CONTRACT ID.:
PROJECT NO.:
BRIDGE NO.:

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
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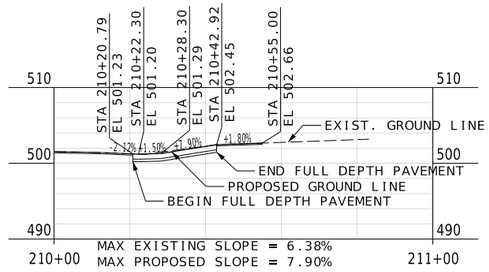
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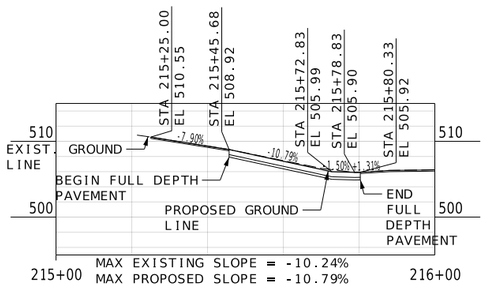
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REVIEWED	DJK	01/2025

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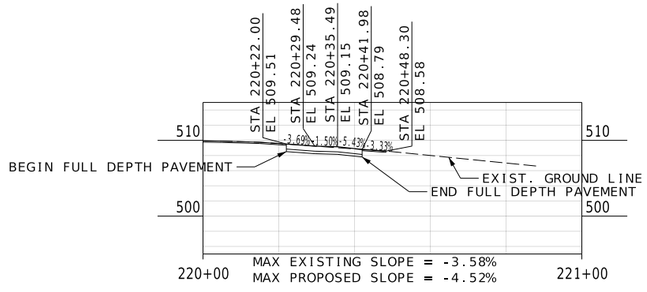
SIDE ROAD PROFILE - E CARTWRIGHT AVE
STA. 133+28.38 RTE. 231 = STA. 210+00.00 E CARTWRIGHT AVE
1" = 20' H, 1" = 10' V



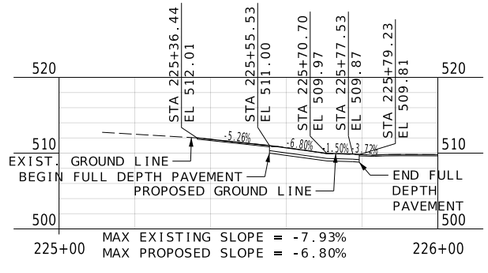
SIDE ROAD PROFILE - W CARTWRIGHT AVE
STA. 134+32.03 RTE. 231 = STA. 216+00.00 W CARTWRIGHT AVE
1" = 20' H, 1" = 10' V



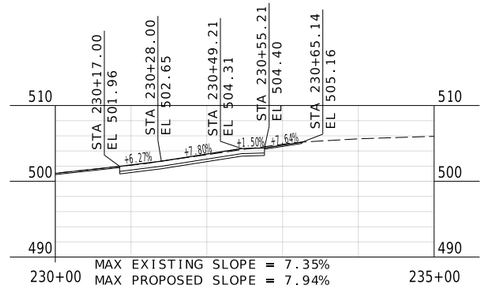
SIDE ROAD PROFILE - MANN ST
STA. 135+71.22 RTE. 231 = STA. 220+00.00 MANN ST
1" = 20' H, 1" = 10' V



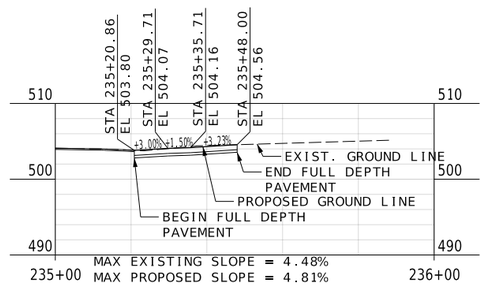
SIDE ROAD PROFILE - VINCENT AVE
STA. 137+39.83 RTE. 231 = STA. 226+00.00 VINCENT AVE
1" = 20' H, 1" = 10' V



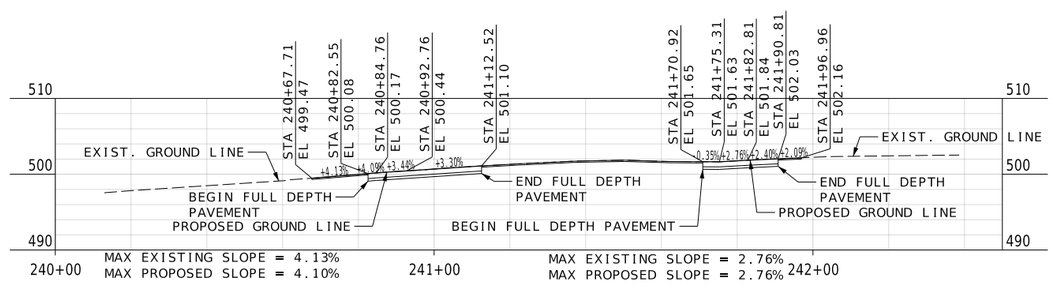
SIDE ROAD PROFILE - E GOETZ AVE
STA. 140+34.49 RTE. 231 = STA. 231+00.00 E GOETZ AVE
1" = 20' H, 1" = 10' V



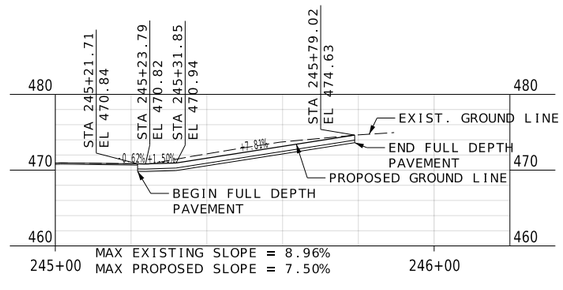
SIDE ROAD PROFILE - MILITARY RD
STA. 141+77.31 RTE. 231 = STA. 235+00.00 MILITARY RD
1" = 20' H, 1" = 10' V



SIDE ROAD PROFILE - HOFFMEISTER AVE
STA. 143+29.55 RTE. 231 = STA. 241+50.00 HOFFMEISTER AVE
1" = 20' H, 1" = 10' V



SIDE ROAD PROFILE - WEISS AVE
STA. 152+04.82 RTE. 231 = STA. 245+00.00 WEISS AVE
1" = 20' H, 1" = 10' V



SIDE ROAD
PROFILE SHEETS
SHEET 6 OF 7

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DENNIS J KOSCIELSKI
NUMBER PE-2005000712
PROFESSIONAL ENGINEER

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DATE PREPARED: 7/25/2025
ROUTE: 231 | STATE: MO
DISTRICT: SL | SHEET NO.: 109
COUNTY: ST. LOUIS
JOB NO.: J6S3631
CONTRACT ID.:
PROJECT NO.:
BRIDGE NO.:

DATE	DESCRIPTION

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105 WEST CAPITOL
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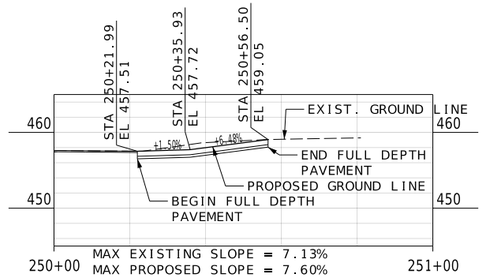
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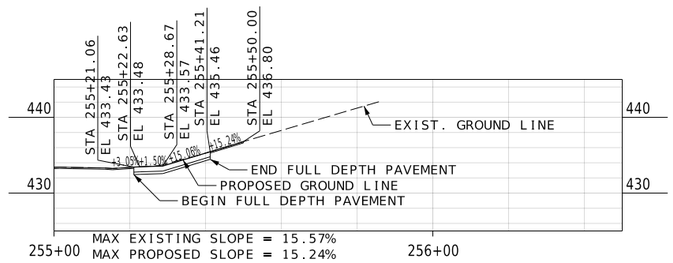
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DRAWN	SMC	01/2025
REVIEWED	DJK	01/2025

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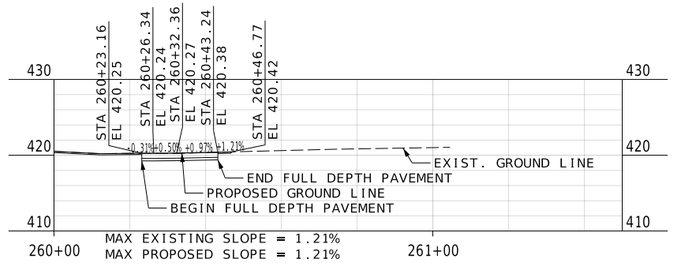
SIDE ROAD PROFILE - HORN AVE
STA. 155+62.55 RTE. 231 = STA. 250+00.00 HORN AVE
1" = 20' H, 1" = 10' V



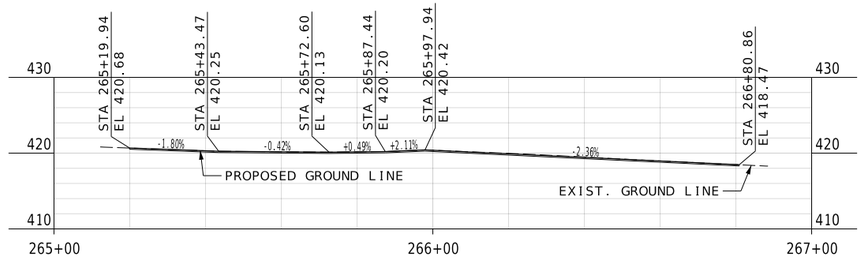
SIDE ROAD PROFILE - WALLER AVE
STA. 161+44.76 RTE. 231 = STA. 255+00.00 WALLER AVE
1" = 20' H, 1" = 10' V



SIDE ROAD PROFILE - KAYSER AVE
STA. 165+13.96 RTE. 231 = STA. 260+00.00 KAYSER AVE
1" = 20' H, 1" = 10' V



SIDE ROAD PROFILE - RIVER CITY CASINO BLVD
STA. 167+37.75 RTE. 231 = STA. 266+00.00 RIVER CITY CASINO BLVD
1" = 20' H, 1" = 10' V



SIDE ROAD
PROFILE SHEETS
SHEET 7 OF 7

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DENNIS J KOSCIELSKI
NUMBER PE-2005000712
PROFESSIONAL ENGINEER

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DATE PREPARED: 7/25/2025
ROUTE: 231 | STATE: MO
DISTRICT: SL | SHEET NO.: 110
COUNTY: ST. LOUIS
JOB NO.: J6S3631
CONTRACT ID.:
PROJECT NO.:
BRIDGE NO.:

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1-888-ASK-MODOT (1-888-275-6636)

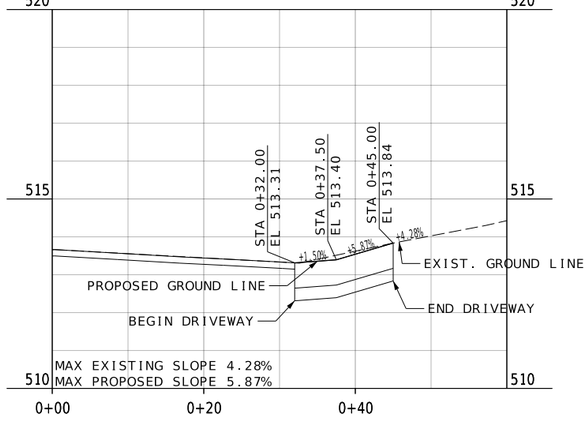
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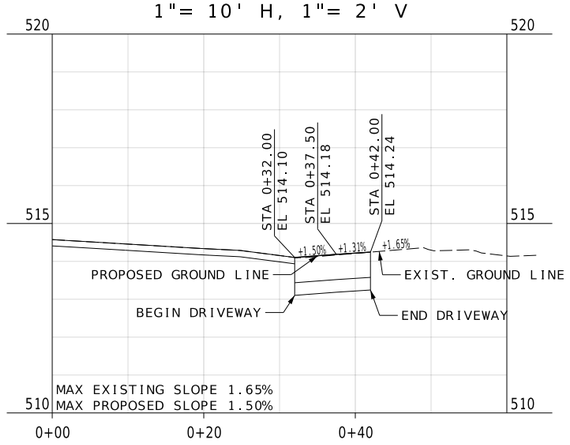
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DRAWN	SMC	01/2025
REVIEWED	DJK	01/2025

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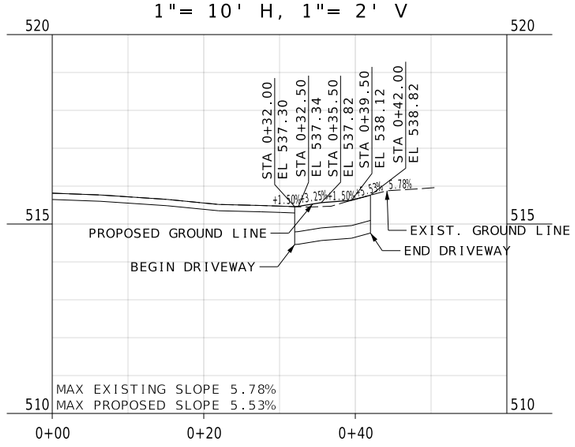
DRIVEWAY PROFILE 1
STA. 14+44.84 (LT) RTE 231
1"= 10' H, 1"= 2' V



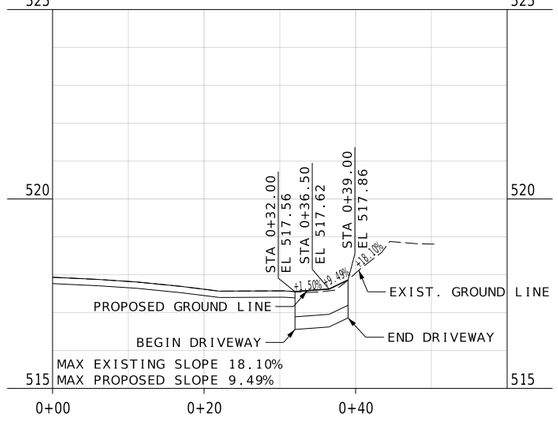
DRIVEWAY PROFILE 2
STA. 15+35.00 (RT) RTE 231
1"= 10' H, 1"= 2' V



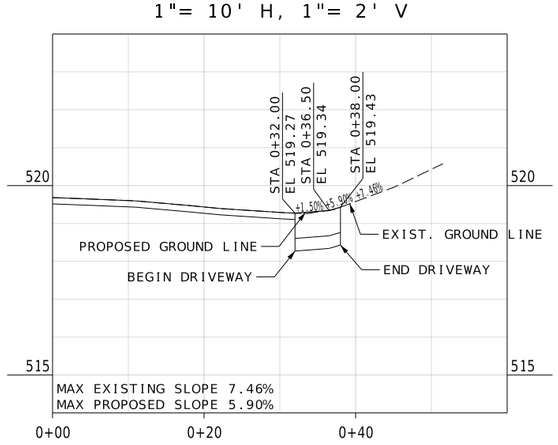
DRIVEWAY PROFILE 3
STA. 16+06.36 (RT) RTE 231
1"= 10' H, 1"= 2' V



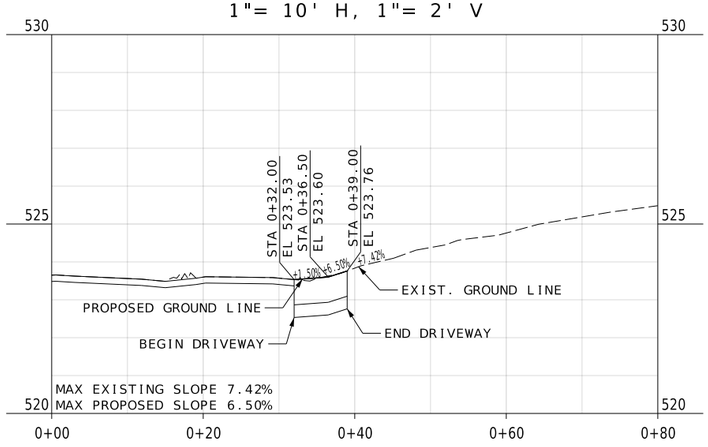
DRIVEWAY PROFILE 3A
STA. 16+80.00 (RT) RTE 231
1"= 10' H, 1"= 2' V



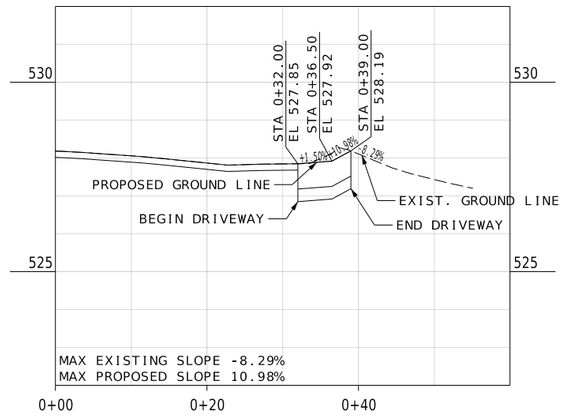
DRIVEWAY PROFILE 4
STA. 17+31.66 (RT) RTE 231
1"= 10' H, 1"= 2' V



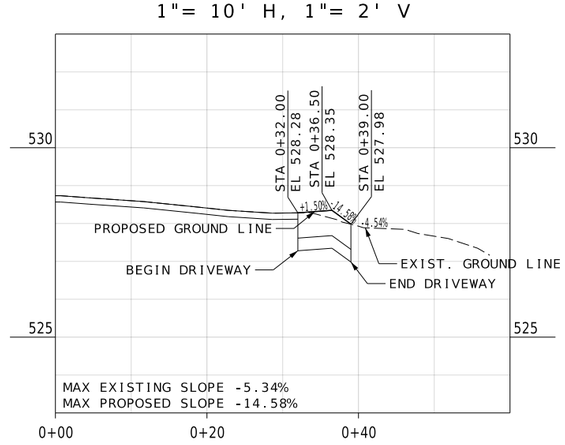
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STA. 18+36.29 (LT) RTE 231
1"= 10' H, 1"= 2' V



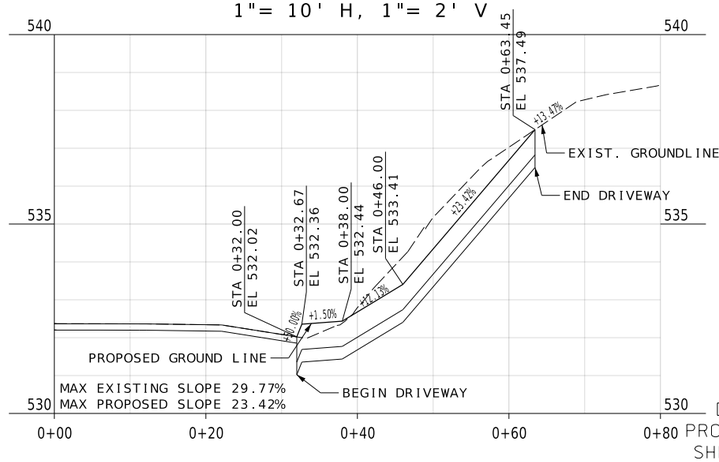
DRIVEWAY PROFILE 6
STA. 19+59.84 (RT) RTE 231
1"= 10' H, 1"= 2' V



DRIVEWAY PROFILE 7
STA. 19+74.87 (RT) RTE 231
1"= 10' H, 1"= 2' V



DRIVEWAY PROFILE 8
STA. 20+68.78 (LT) RTE 231
1"= 10' H, 1"= 2' V



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STATE OF MISSOURI
DENNIS J KOSCIELSKI
NUMBER PE-2005000712
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED: 7/25/2025
ROUTE: 231 | STATE: MO
DISTRICT: SL | SHEET NO.: 111
COUNTY: ST. LOUIS
JOB NO.: J6S3631
CONTRACT ID.
PROJECT NO.
BRIDGE NO.

DATE	DESCRIPTION

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
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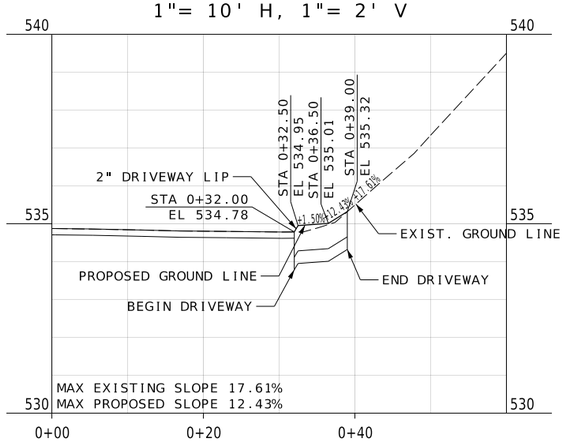
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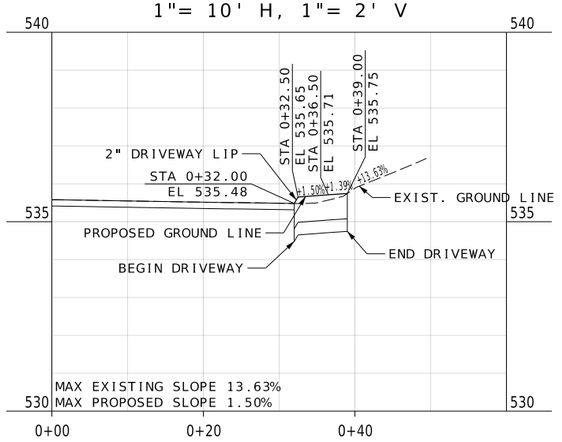
DRIVEWAY PROFILE SHEETS
SHEET 1 OF 21

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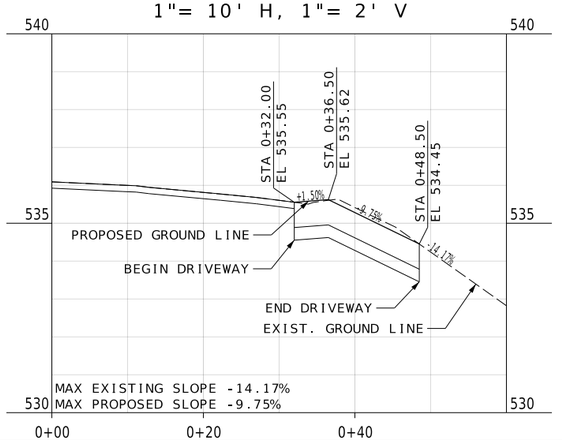
DRIVEWAY PROFILE 9
STA. 21+55.75 (LT) RTE 231
1"= 10' H, 1"= 2' V



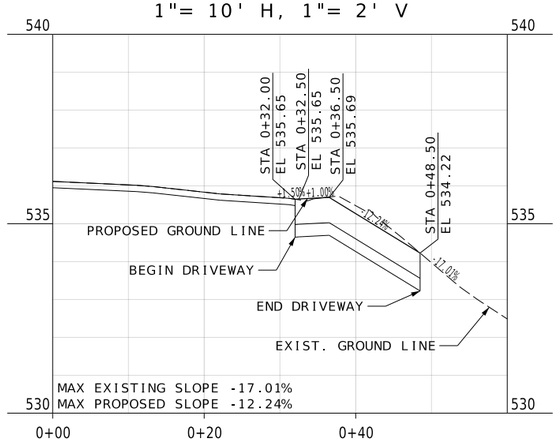
DRIVEWAY PROFILE 10
STA. 21+89.75 (LT) RTE 231
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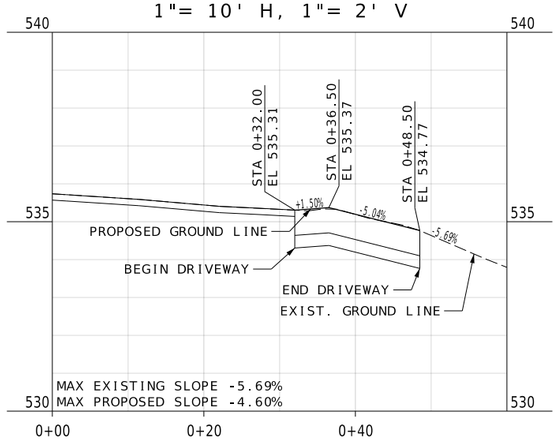
DRIVEWAY PROFILE 11
STA. 22+37.52 (RT) RTE 231
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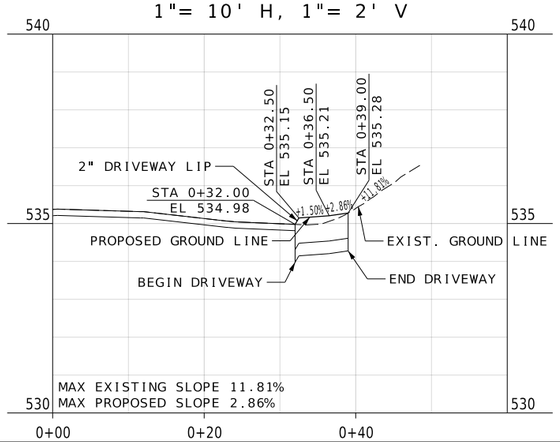
DRIVEWAY PROFILE 12
STA. 22+87.05 (RT) RTE 231
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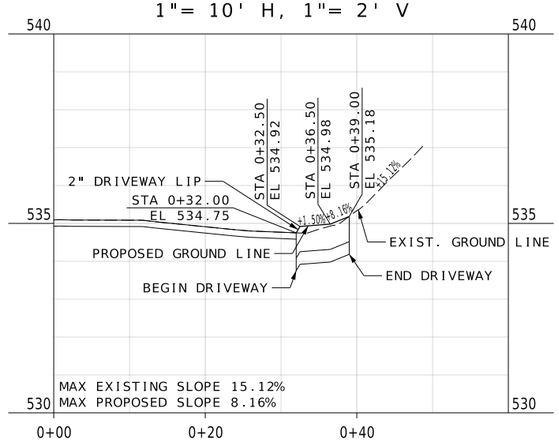
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STA. 23+36.22 (RT) RTE 231
1"= 10' H, 1"= 2' V



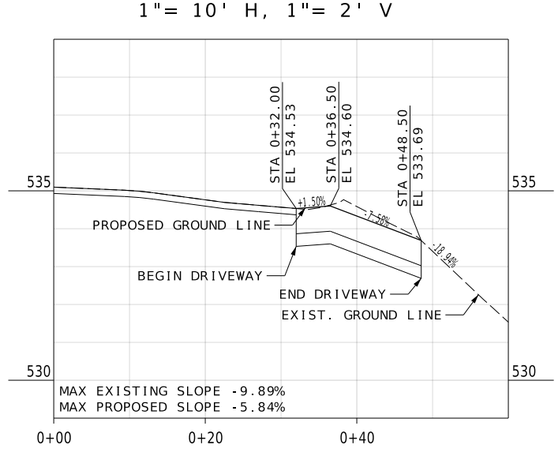
DRIVEWAY PROFILE 14
STA. 23+67.65 (LT) RTE 231
1"= 10' H, 1"= 2' V



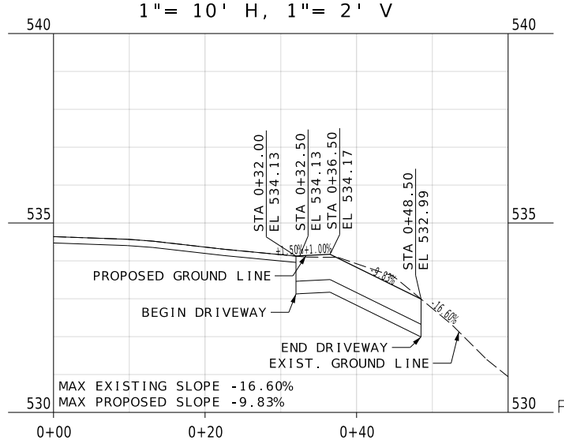
DRIVEWAY PROFILE 15
STA. 23+87.93 (LT) RTE 231
1"= 10' H, 1"= 2' V



DRIVEWAY PROFILE 16
STA. 23+87.36 (RT) RTE 231
1"= 10' H, 1"= 2' V



DRIVEWAY PROFILE 17
STA. 24+37.81 (RT) RTE 231
1"= 10' H, 1"= 2' V



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DENNIS J KOSCIELSKI
NUMBER PE-2005000712
PROFESSIONAL ENGINEER

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DATE PREPARED: 7/25/2025
ROUTE: 231 | STATE: MO
DISTRICT: SL | SHEET NO.: 112
COUNTY: ST. LOUIS
JOB NO.: J6S3631
CONTRACT ID.:
PROJECT NO.:
BRIDGE NO.:

DESCRIPTION	DATE

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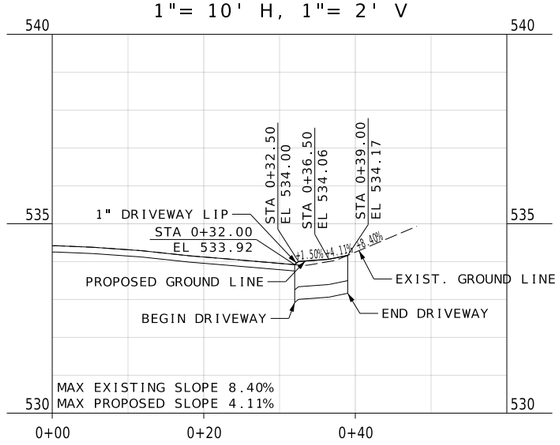
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DRAWN	SMC	01/2025
REVIEWED	DJK	01/2025

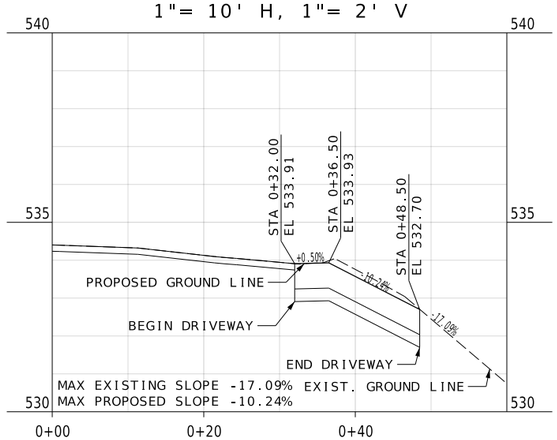
DRIVEWAY PROFILE SHEETS
SHEET 2 OF 21

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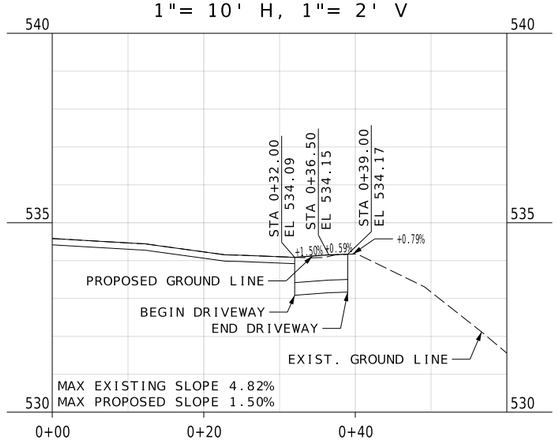
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STA. 24+80.78 (LT) RTE 231
1"= 10' H, 1"= 2' V



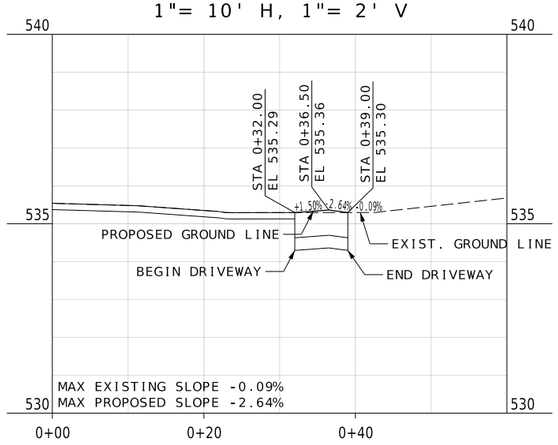
DRIVEWAY PROFILE 19
STA. 24+88.65 (RT) RTE 231
1"= 10' H, 1"= 2' V



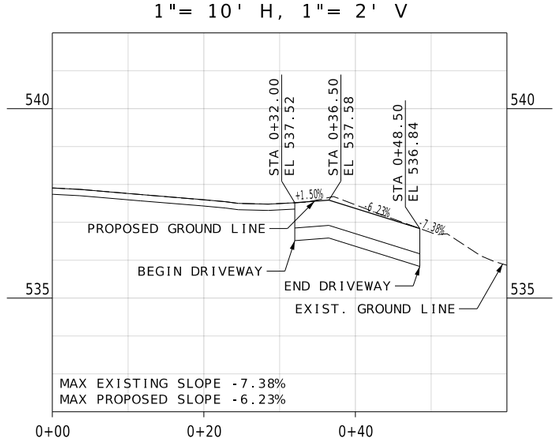
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STA. 25+40.01 (RT) RTE 231
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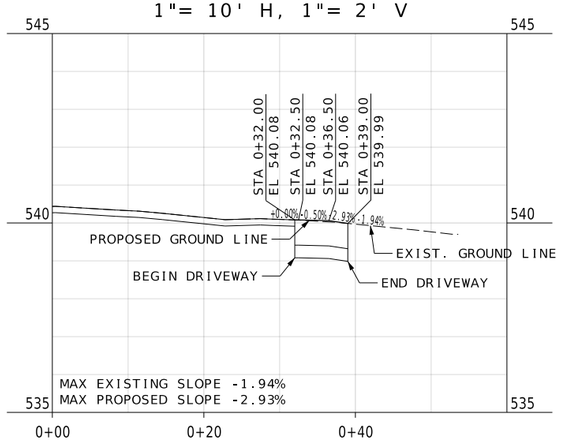
DRIVEWAY PROFILE 21
STA. 26+15.88 (LT) RTE 231
1"= 10' H, 1"= 2' V



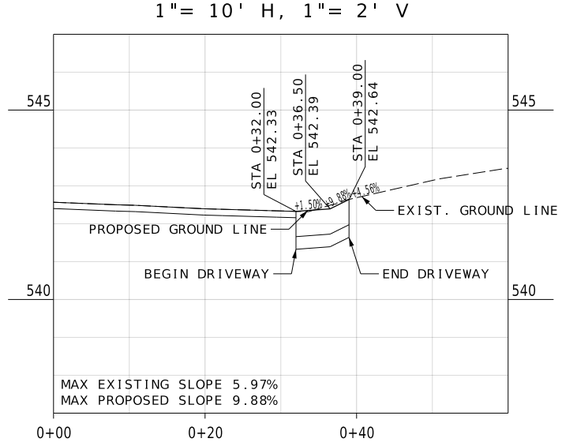
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STA. 26+98.81 (RT) RTE 231
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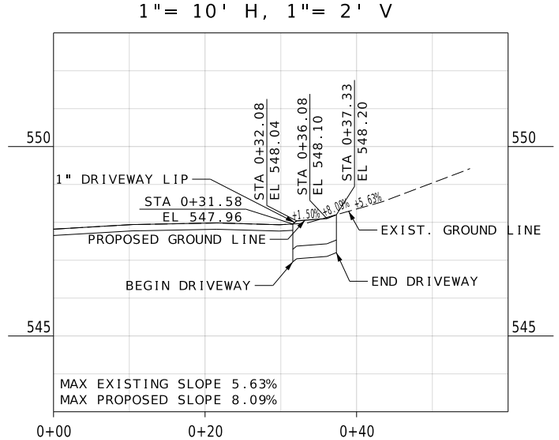
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STA. 27+59.93 (RT) RTE 231
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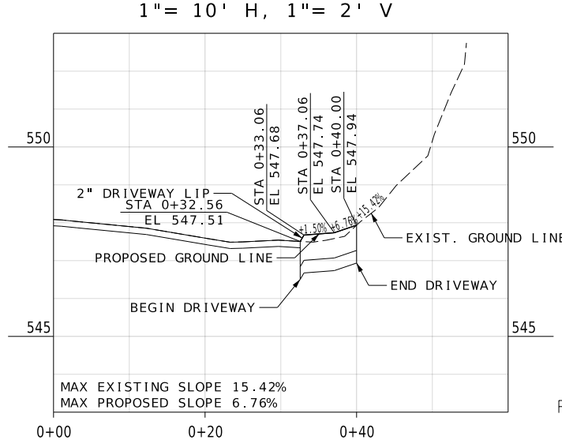
DRIVEWAY PROFILE 24
STA. 28+11.52 (LT) RTE 231
1"= 10' H, 1"= 2' V



DRIVEWAY PROFILE 25
STA. 29+66.75 (LT) RTE 231
1"= 10' H, 1"= 2' V



DRIVEWAY PROFILE 26
STA. 29+76.78 (RT) RTE 231
1"= 10' H, 1"= 2' V



DRIVEWAY
PROFILE SHEETS
SHEET 3 OF 21

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STATE OF MISSOURI
DENNIS J KOSCIELSKI
NUMBER PE-2005000712
PROFESSIONAL ENGINEER

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DATE PREPARED: 7/25/2025
ROUTE: 231 | STATE: MO
DISTRICT: SL | SHEET NO.: 113
COUNTY: ST. LOUIS
JOB NO.: J6S3631
CONTRACT ID.:
PROJECT NO.:
BRIDGE NO.:

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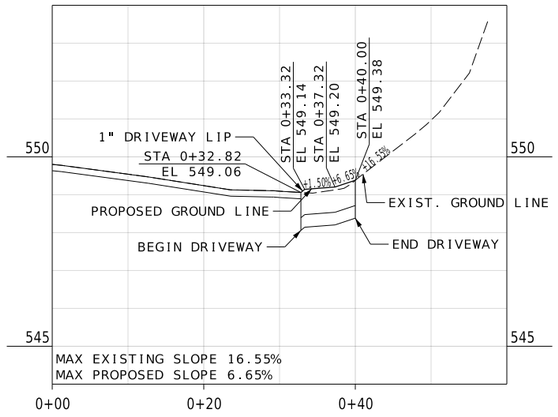
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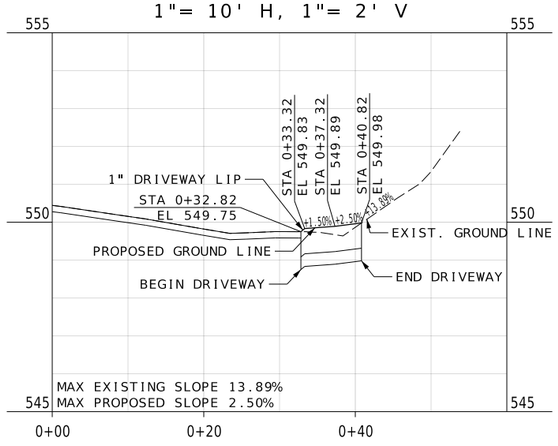
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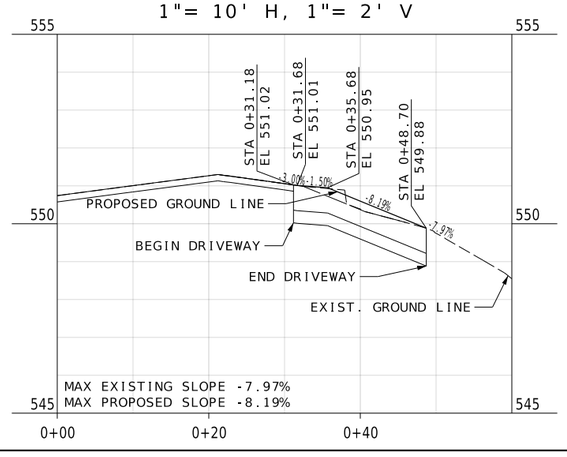
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1"= 10' H, 1"= 2' V



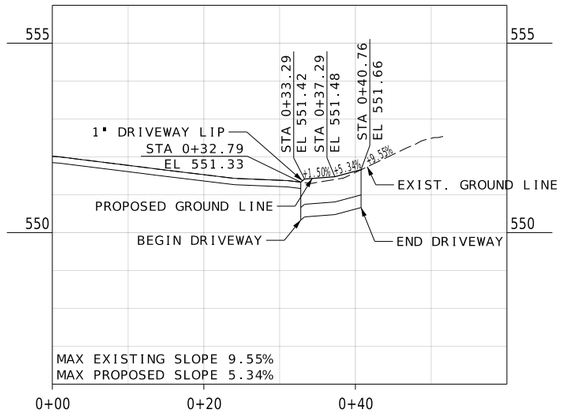
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STA. 30+96.17 (RT) RTE 231
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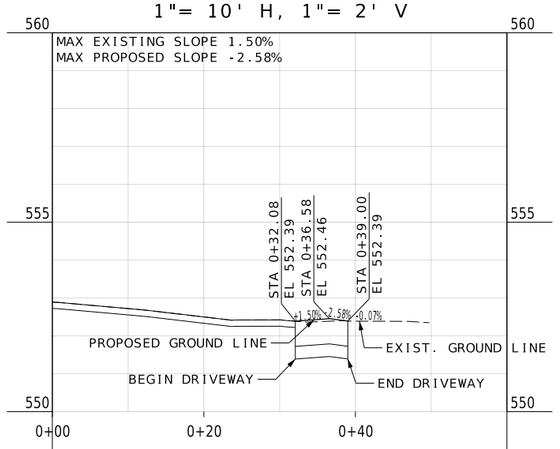
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STA. 31+19.65 (LT) RTE 231
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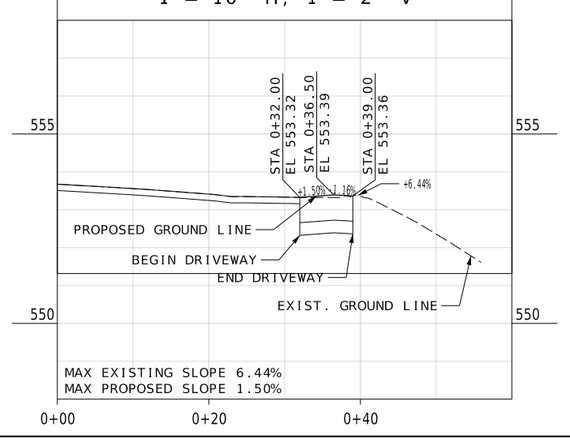
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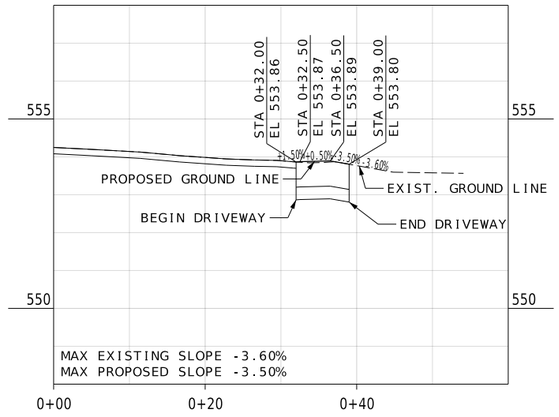
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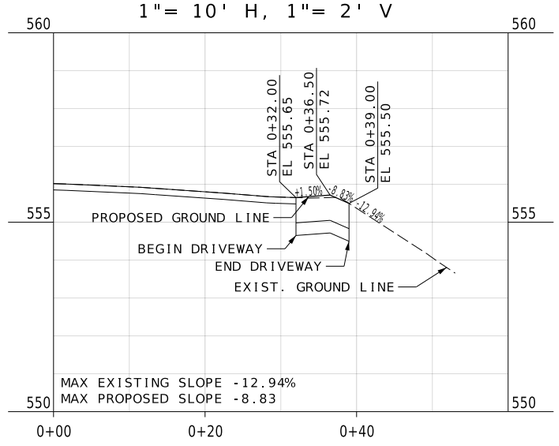
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1"= 10' H, 1"= 2' V



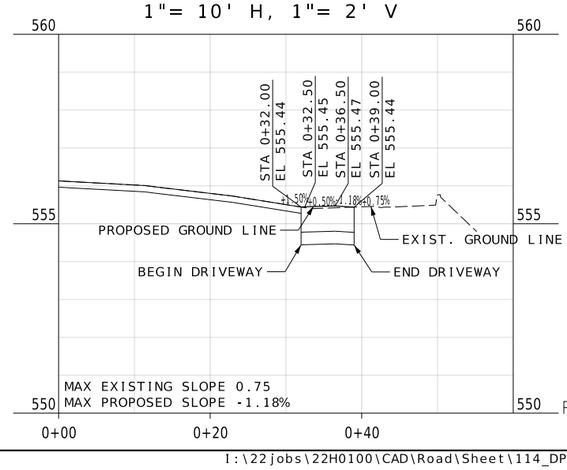
DRIVEWAY PROFILE 33
STA. 34+06.07 (RT) RTE 231
1"= 10' H, 1"= 2' V



DRIVEWAY PROFILE 34
STA. 35+15.49 (RT) RTE 231
1"= 10' H, 1"= 2' V



DRIVEWAY PROFILE 35
STA. 35+21.89 (LT) RTE 231
1"= 10' H, 1"= 2' V



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DENNIS J KOSCIELSKI
NUMBER PE-2005000712
PROFESSIONAL ENGINEER

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7/25/2025

ROUTE	STATE
231	MO
DISTRICT	SHEET NO.
SL	114

COUNTY
ST. LOUIS

JOB NO.
J6S3631

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DATE	DESCRIPTION

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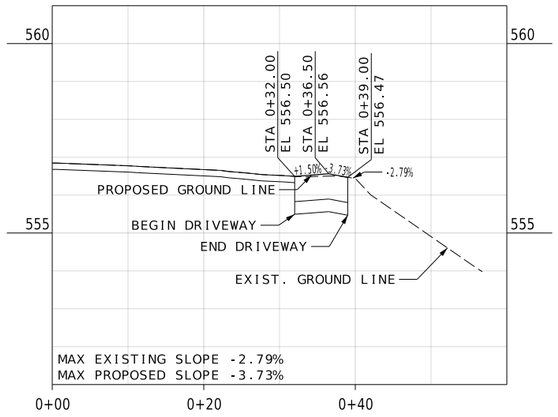
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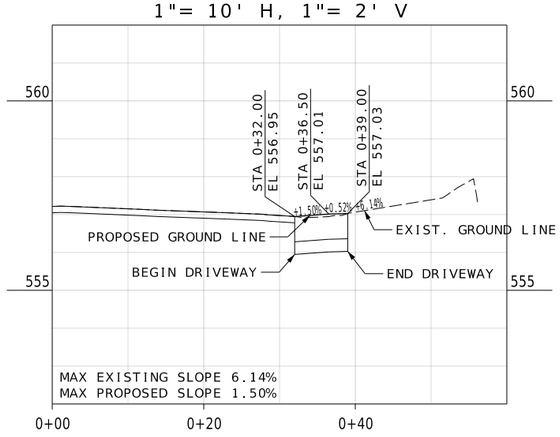
DRIVEWAY PROFILE SHEETS
SHEET 4 OF 21

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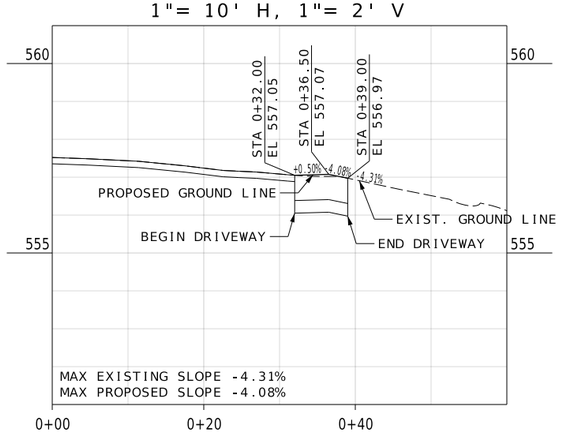
DRIVEWAY PROFILE 36
STA. 35+67.36 (LT) RTE 231
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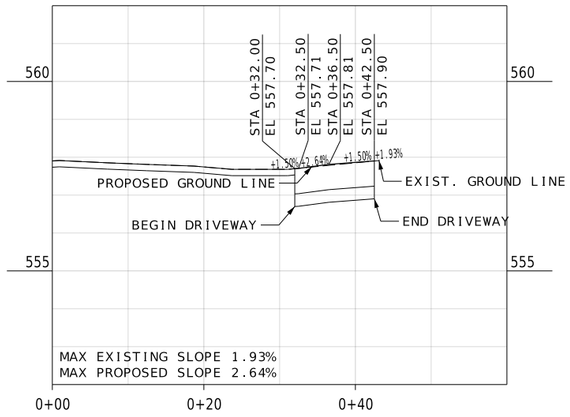
DRIVEWAY PROFILE 37
STA. 35+89.86 (LT) RTE 231
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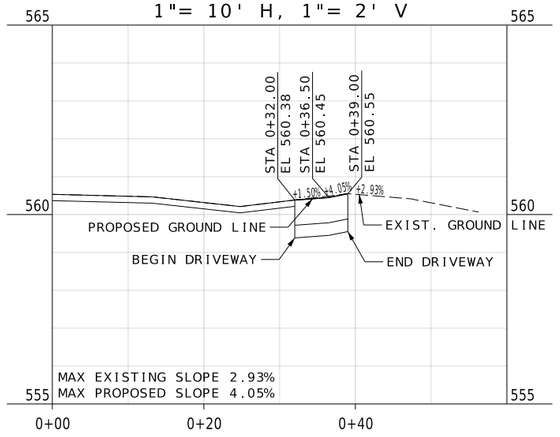
DRIVEWAY PROFILE 38
STA. 36+08.39 (RT) RTE 231
1"= 10' H, 1"= 2' V



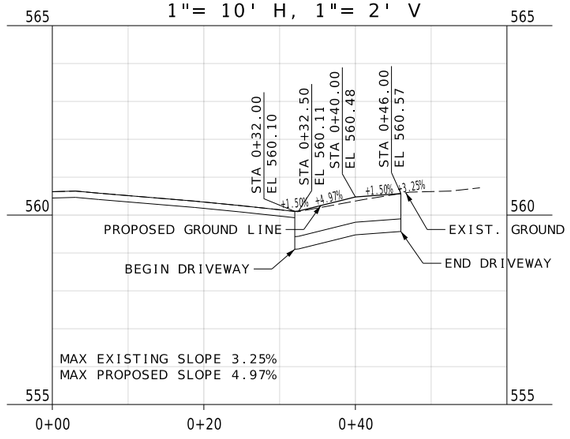
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STA. 36+30.69 (LT) RTE 231
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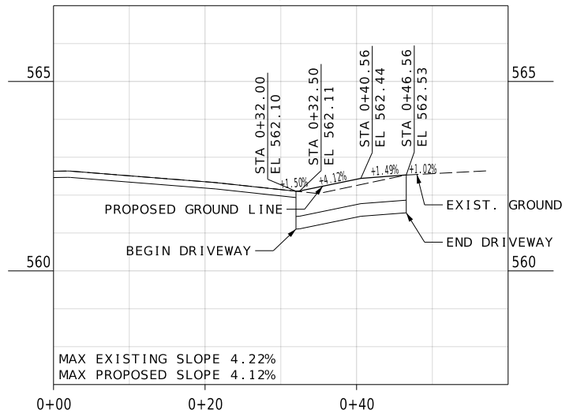
DRIVEWAY PROFILE 40
STA. 37+70.47 (RT) RTE 231
1"= 10' H, 1"= 2' V



DRIVEWAY PROFILE 41
STA. 37+74.21 (LT) RTE 231
1"= 10' H, 1"= 2' V

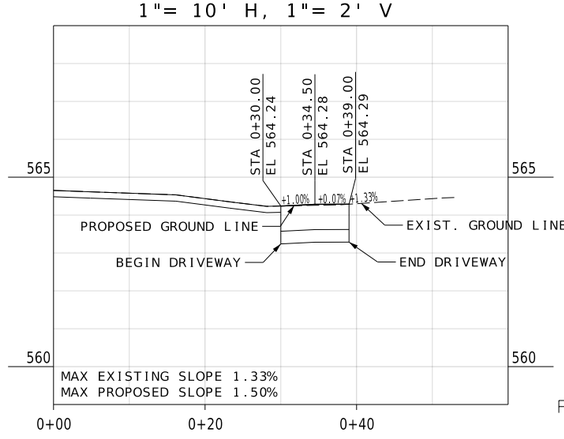


DRIVEWAY PROFILE 42
STA. 38+69.83 (LT) RTE 231
1"= 10' H, 1"= 2' V



DRIVEWAY PROFILE 43
NOT USED

DRIVEWAY PROFILE 44
STA. 41+29.89 (RT) RTE 231
1"= 10' H, 1"= 2' V



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DRIVEWAY
PROFILE SHEETS
SHEET 5 OF 21

LAYOUT	NS	01/2025
DRAWN	SMC	01/2025
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DENNIS J KOSCIELSKI
NUMBER PE-2005000712
STATE OF MISSOURI
PROFESSIONAL ENGINEER

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7/25/2025	
ROUTE	STATE
231	MO
DISTRICT	SHEET NO.
SL	115

COUNTY: ST. LOUIS
JOB NO.: J6S3631
CONTRACT ID.:
PROJECT NO.:
BRIDGE NO.:

DESCRIPTION	DATE

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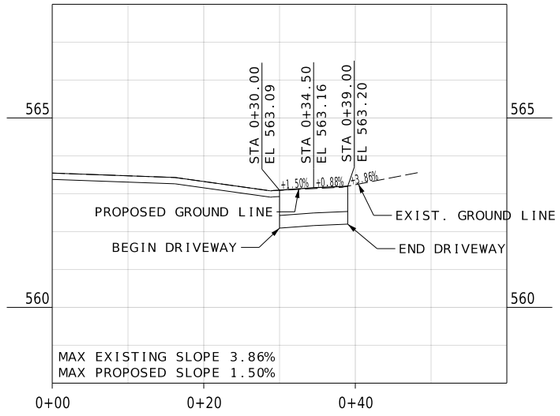
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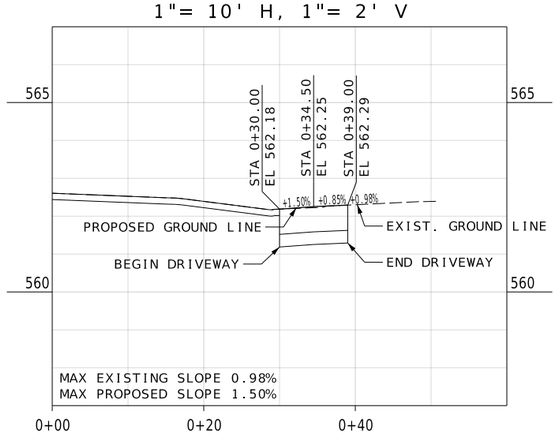
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DRIVEWAY PROFILE 45
STA. 41+93.81 (RT) RTE 231
1"= 10' H, 1"= 2' V



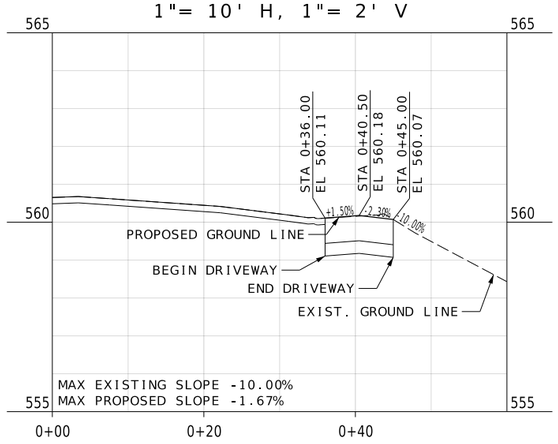
DRIVEWAY PROFILE 46
NOT USED

DRIVEWAY PROFILE 47
STA. 42+46.84 (RT) RTE 231
1"= 10' H, 1"= 2' V

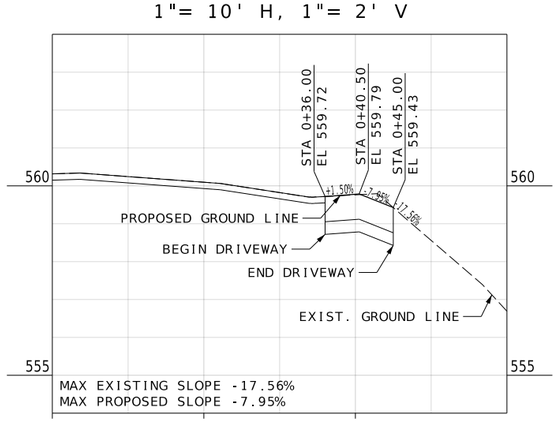


DRIVEWAY PROFILE 48
NOT USED

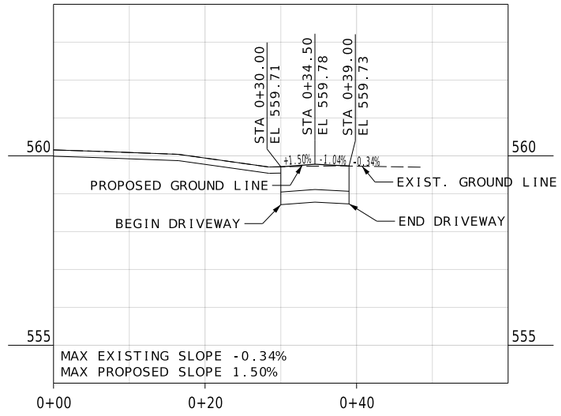
DRIVEWAY PROFILE 49
STA. 43+89.33 (LT) RTE 231
1"= 10' H, 1"= 2' V



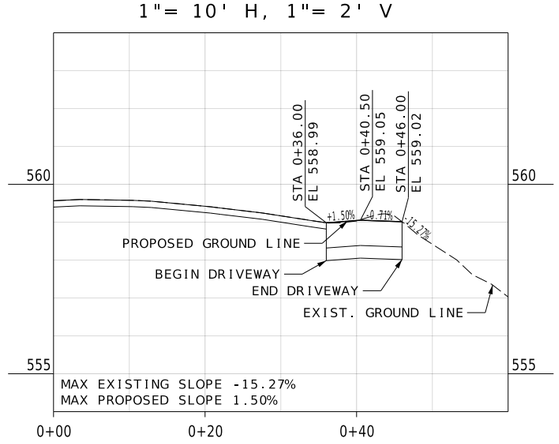
DRIVEWAY PROFILE 50
STA. 44+18.17 (LT) RTE 231
1"= 10' H, 1"= 2' V



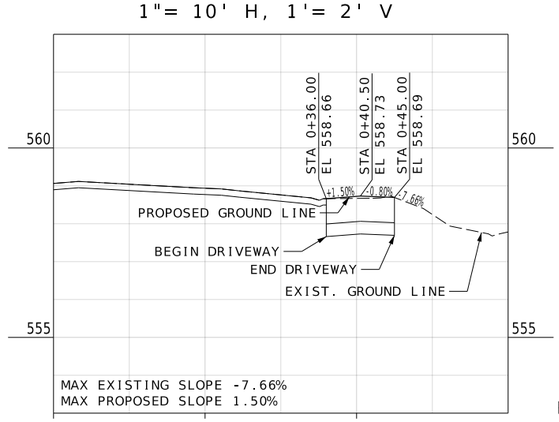
DRIVEWAY PROFILE 51
STA. 44+32.22 (RT) RTE 231
1"= 10' H, 1"= 2' V



DRIVEWAY PROFILE 52
STA. 44+80.80 (LT) RTE 231
1"= 10' H, 1"= 2' V



DRIVEWAY PROFILE 53
STA. 45+25.00 (LT) RTE 231
1"= 10' H, 1'= 2' V



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DRAWN	SMC	01/2025
REVIEWED	DJK	01/2025

STATE OF MISSOURI
DENNIS J KOSCIELSKI
NUMBER PE-2005000712
PROFESSIONAL ENGINEER

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DATE PREPARED: 7/25/2025
ROUTE: 231 | STATE: MO
DISTRICT: SL | SHEET NO.: 116
COUNTY: ST. LOUIS
JOB NO.: J6S3631
CONTRACT ID.:
PROJECT NO.:
BRIDGE NO.:

DATE	DESCRIPTION

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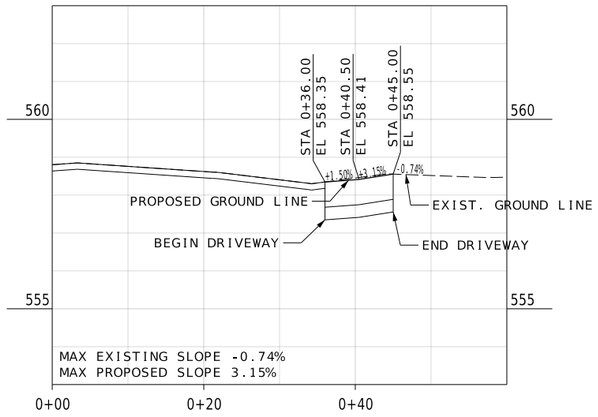
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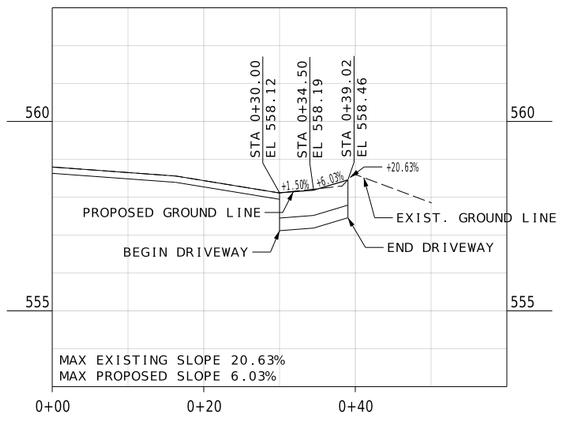
DRIVEWAY PROFILE SHEETS
SHEET 6 OF 21

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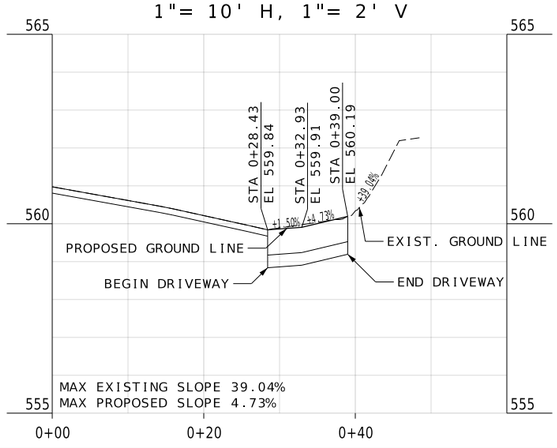
DRIVEWAY PROFILE 54
STA. 45+68.56 (LT) RTE 231
1"= 10' H, 1"= 2' V



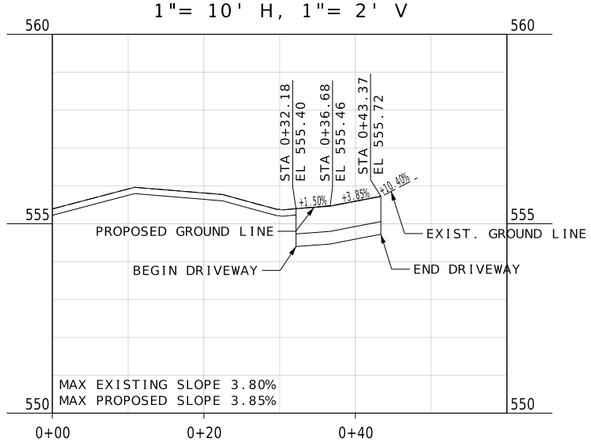
DRIVEWAY PROFILE 55
STA. 45+69.84 (RT) RTE 231
1"= 10' H, 1"= 2' V



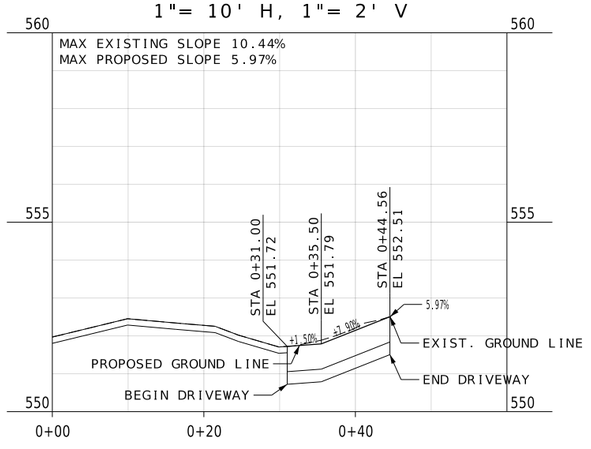
DRIVEWAY PROFILE 56
STA. 48+62.46 (RT) RTE 231
1"= 10' H, 1"= 2' V



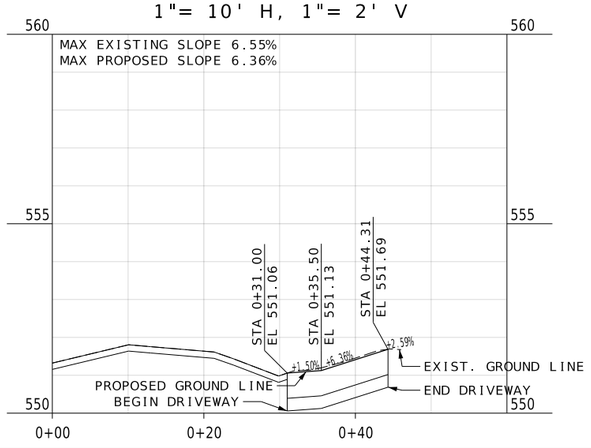
DRIVEWAY PROFILE 57
STA. 51+46.78 (LT) RTE 231
1"= 10' H, 1"= 2' V



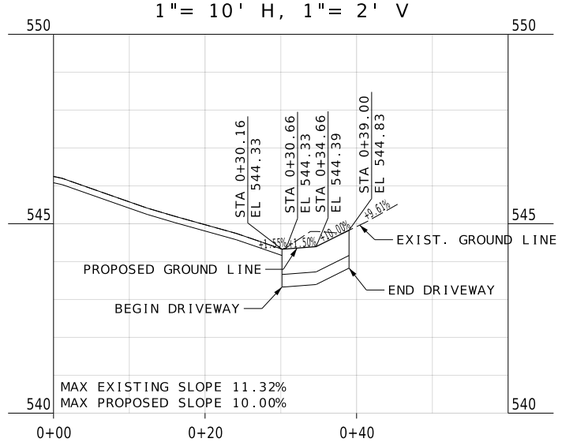
DRIVEWAY PROFILE 58
STA. 52+14.88 (LT) RTE 231
1"= 10' H, 1"= 2' V



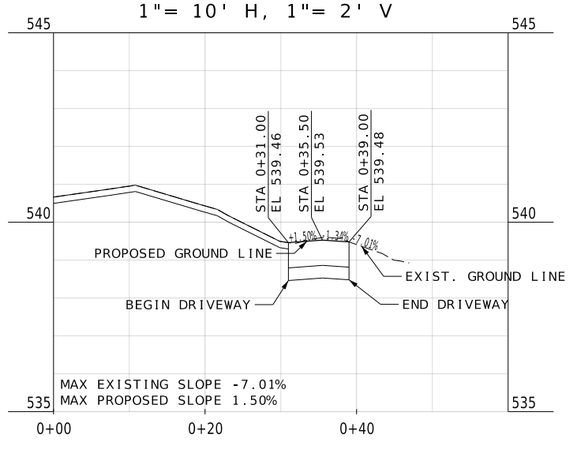
DRIVEWAY PROFILE 59
STA. 52+24.88 (LT) RTE 231
1"= 10' H, 1"= 2' V



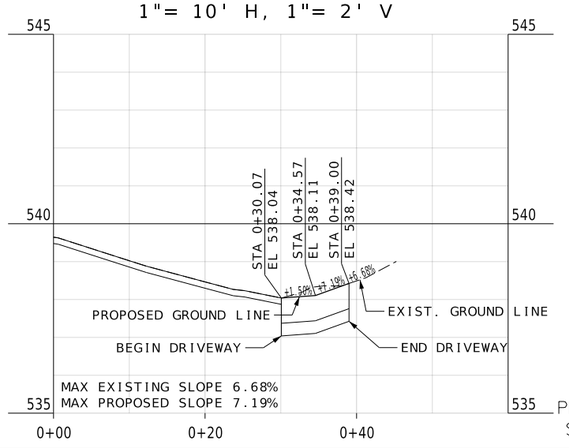
DRIVEWAY PROFILE 60
STA. 53+05.96 (RT) RTE 231
1"= 10' H, 1"= 2' V



DRIVEWAY PROFILE 61
STA. 53+82.44 (LT) RTE 231
1"= 10' H, 1"= 2' V



DRIVEWAY PROFILE 62
STA. 53+96.58 (RT) RTE 231
1"= 10' H, 1"= 2' V



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STATE OF MISSOURI
DENNIS J KOSCIELSKI
NUMBER PE-2005000712
PROFESSIONAL ENGINEER

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DATE PREPARED	
7/25/2025	
ROUTE	STATE
231	MO
DISTRICT	SHEET NO.
SL	117
COUNTY	
ST. LOUIS	
JOB NO.	
J6S3631	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

NO	DESCRIPTION	DATE

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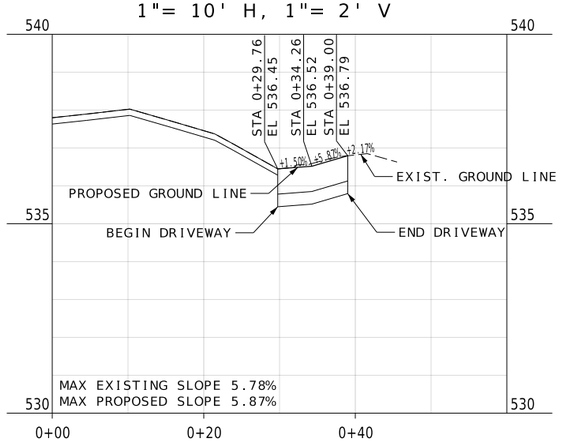
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REVIEWED	DJK	01/2025

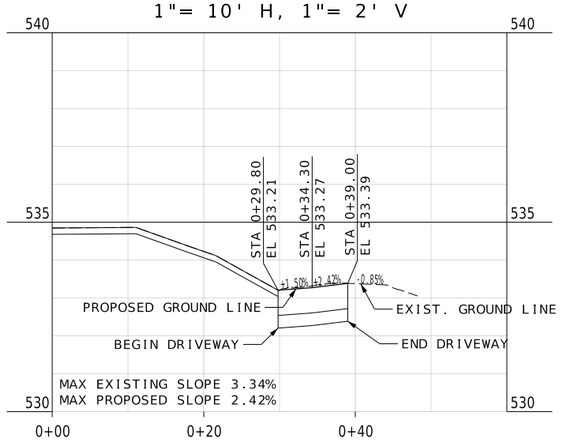
DRIVEWAY PROFILE SHEETS
SHEET 7 OF 21

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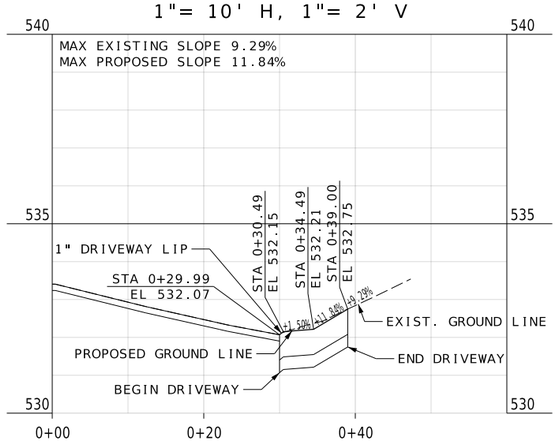
DRIVEWAY PROFILE 63
STA. 54+22.29 (LT) RTE 231
1"= 10' H, 1"= 2' V



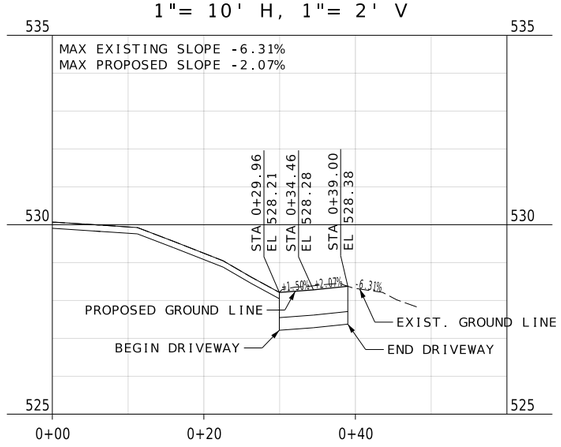
DRIVEWAY PROFILE 64
STA. 54+64.26 (LT) RTE 231
1"= 10' H, 1"= 2' V



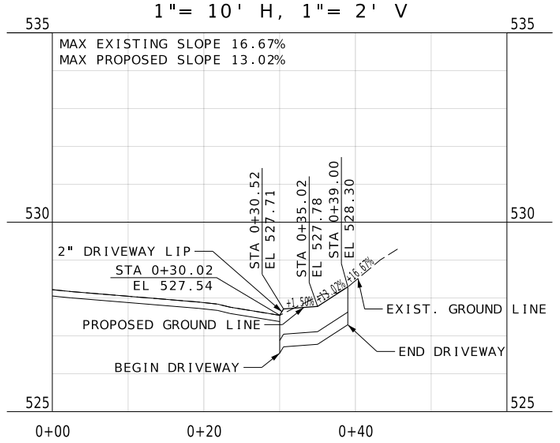
DRIVEWAY PROFILE 65
STA. 54+83.93 (RT) RTE 231
1"= 10' H, 1"= 2' V



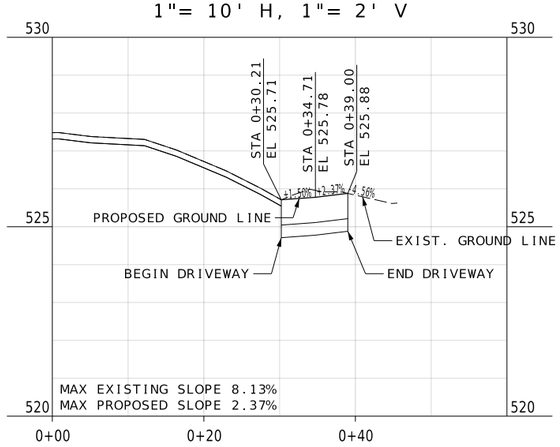
DRIVEWAY PROFILE 66
STA. 55+31.49 (LT) RTE 231
1"= 10' H, 1"= 2' V



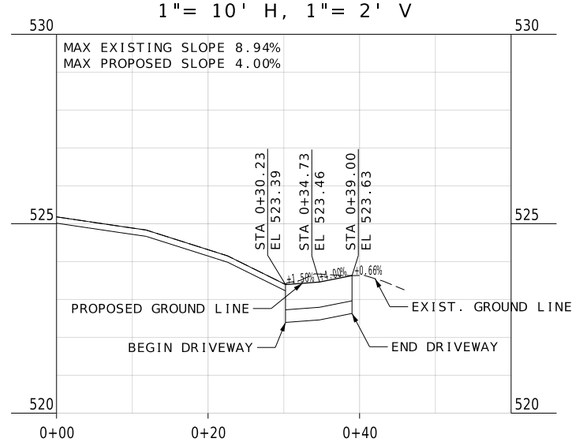
DRIVEWAY PROFILE 67
STA. 55+58.60 (RT) RTE 231
1"= 10' H, 1"= 2' V



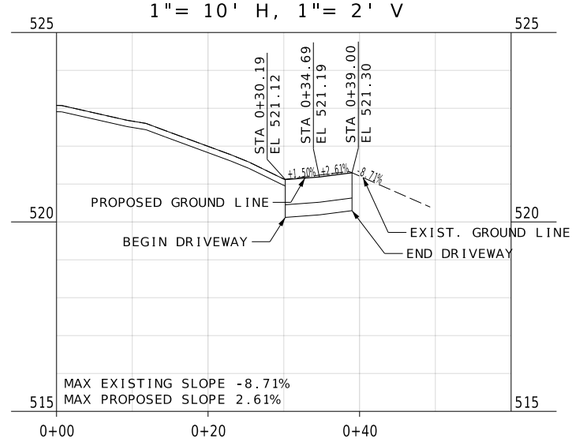
DRIVEWAY PROFILE 68
STA. 55+70.33 (LT) RTE 231
1"= 10' H, 1"= 2' V



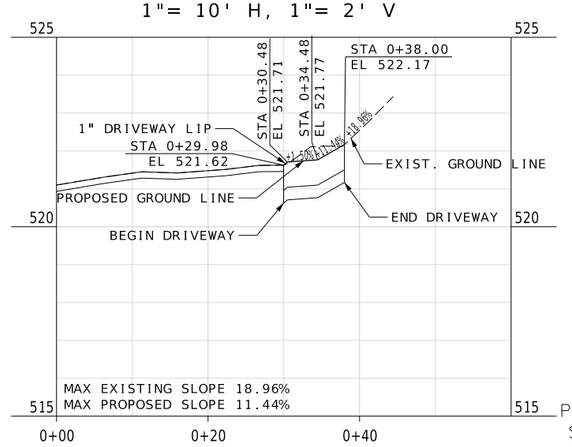
DRIVEWAY PROFILE 69
STA. 56+10.02 (LT) RTE 231
1"= 10' H, 1"= 2' V



DRIVEWAY PROFILE 70
STA. 56+54.83 (LT) RTE 231
1"= 10' H, 1"= 2' V



DRIVEWAY PROFILE 71
STA. 56+99.93 (RT) RTE 231
1"= 10' H, 1"= 2' V



DRIVEWAY PROFILE SHEETS
SHEET 8 OF 21

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DENNIS J KOSCIELSKI
NUMBER PE-2005000712
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY

DATE PREPARED
7/25/2025

ROUTE	STATE
231	MO
DISTRICT	SHEET NO.
SL	118

COUNTY
ST. LOUIS

JOB NO.
J6S3631

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION	DATE

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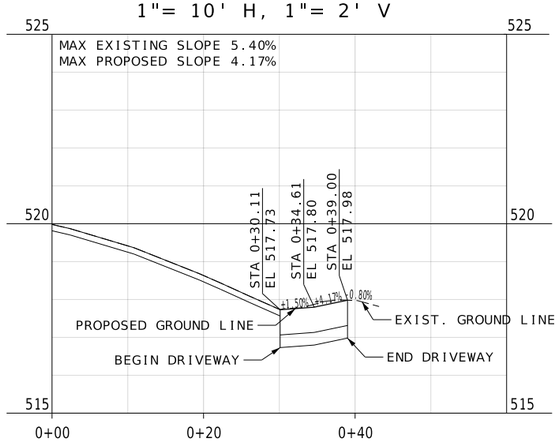
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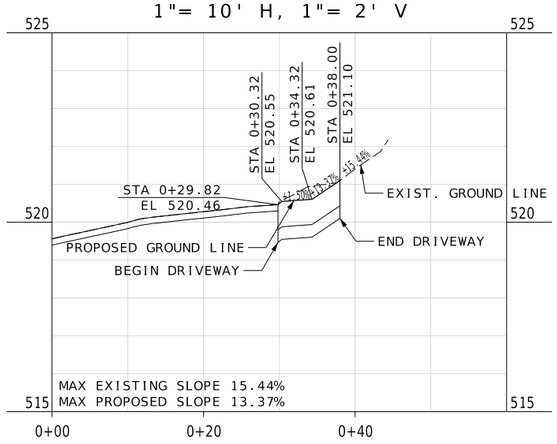
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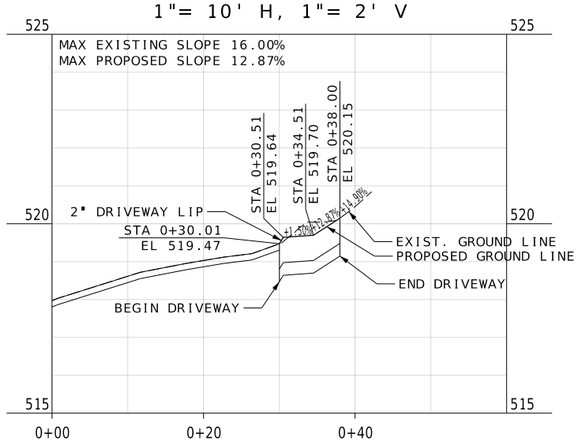
DRIVEWAY PROFILE 72
STA. 57+28.92 (LT) RTE 231
1"= 10' H, 1"= 2' V



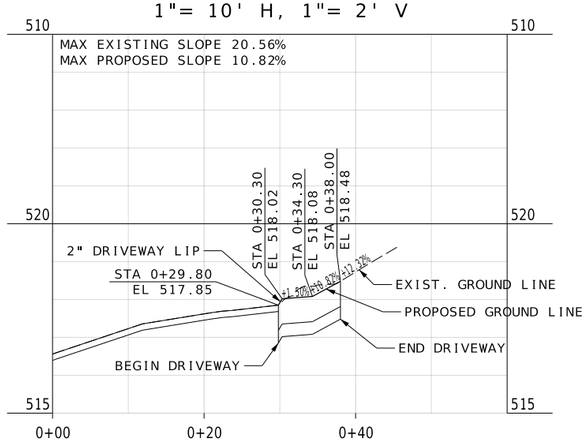
DRIVEWAY PROFILE 73
STA. 57+39.73 (RT) RTE 231
1"= 10' H, 1"= 2' V



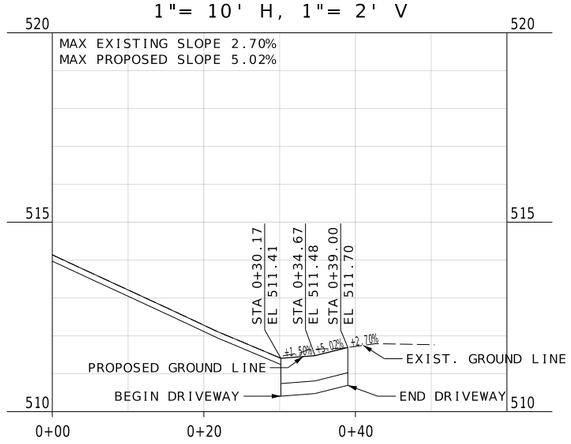
DRIVEWAY PROFILE 74
STA. 57+81.55 (RT) RTE 231
1"= 10' H, 1"= 2' V



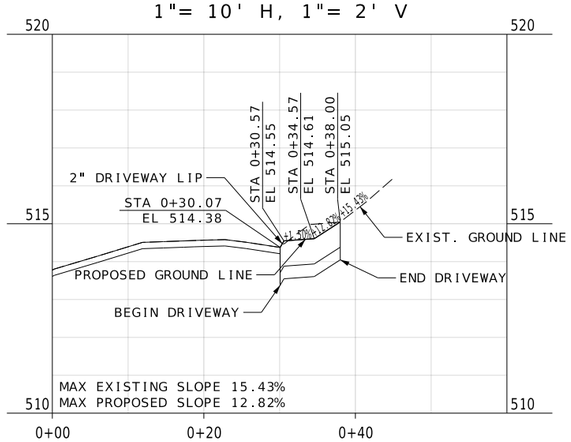
DRIVEWAY PROFILE 75
STA. 58+19.77 (RT) RTE 231
1"= 10' H, 1"= 2' V



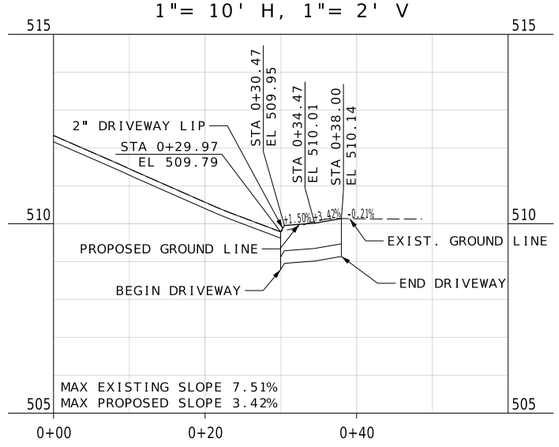
DRIVEWAY PROFILE 76
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1"= 10' H, 1"= 2' V



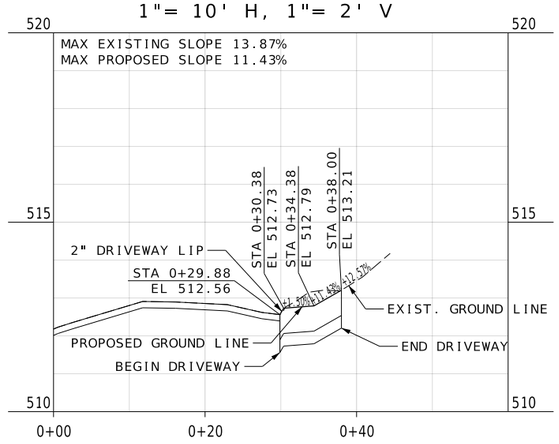
DRIVEWAY PROFILE 77
STA. 58+89.65 (RT) RTE 231
1"= 10' H, 1"= 2' V



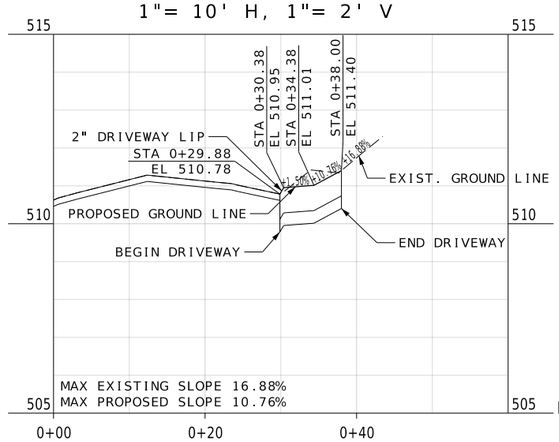
DRIVEWAY PROFILE 78
STA. 59+24.94 (LT) RTE 231
1"= 10' H, 1"= 2' V



DRIVEWAY PROFILE 79
STA. 59+28.09 (RT) RTE 231
1"= 10' H, 1"= 2' V



DRIVEWAY PROFILE 80
STA. 59+66.70 (RT) RTE 231
1"= 10' H, 1"= 2' V



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STATE OF MISSOURI
DENNIS J KOSCIELSKI
NUMBER PE-2005000712
PROFESSIONAL ENGINEER

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DATE PREPARED
7/25/2025

ROUTE	STATE
231	MO
DISTRICT	SHEET NO.
SL	119

COUNTY
ST. LOUIS

JOB NO.
J6S3631

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DATE	DESCRIPTION

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

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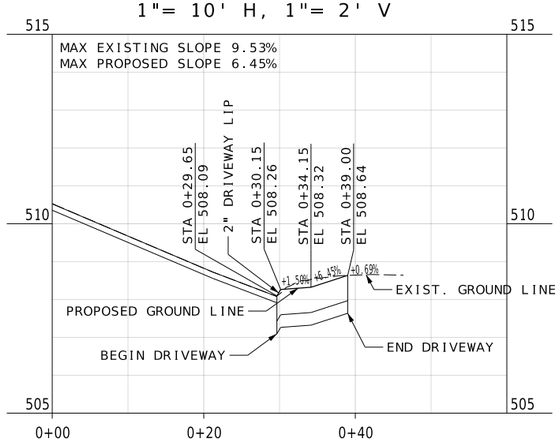
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LAYOUT	NS	01/2025
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REVIEWED	DJK	01/2025

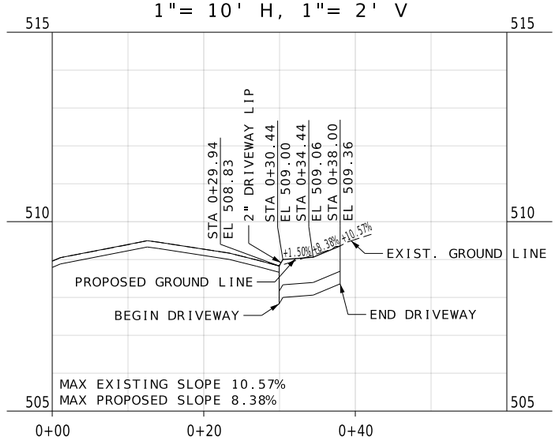
DRIVEWAY PROFILE SHEETS
SHEET 9 OF 21

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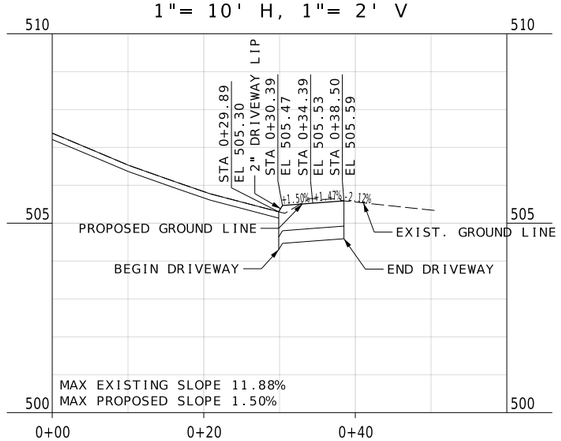
DRIVEWAY PROFILE 81
STA. 59+69.29 (LT) RTE 231
1"= 10' H, 1"= 2' V



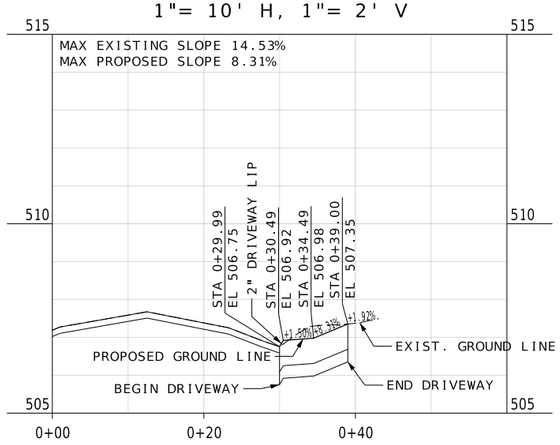
DRIVEWAY PROFILE 82
STA. 60+08.97 (RT) RTE 231
1"= 10' H, 1"= 2' V



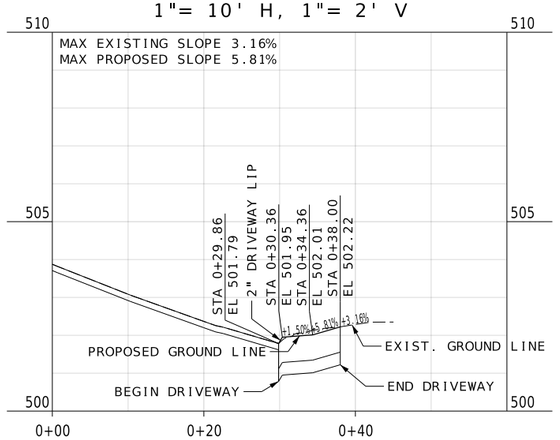
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STA. 60+48.81 (LT) RTE 231
1"= 10' H, 1"= 2' V



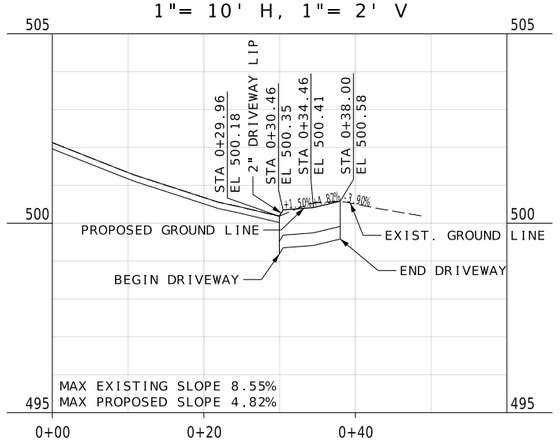
DRIVEWAY PROFILE 84
STA. 60+53.32 (RT) RTE 231
1"= 10' H, 1"= 2' V



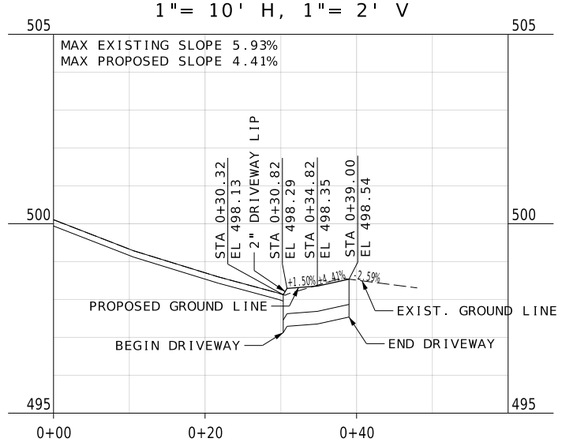
DRIVEWAY PROFILE 85
STA. 61+37.31 (LT) RTE 231
1"= 10' H, 1"= 2' V



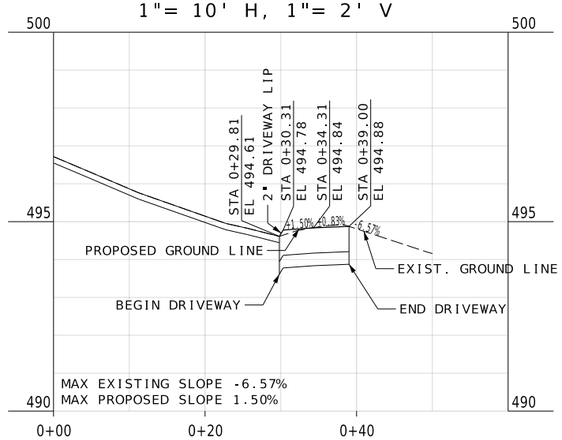
DRIVEWAY PROFILE 86
STA. 61+81.73 (LT) RTE 231
1"= 10' H, 1"= 2' V



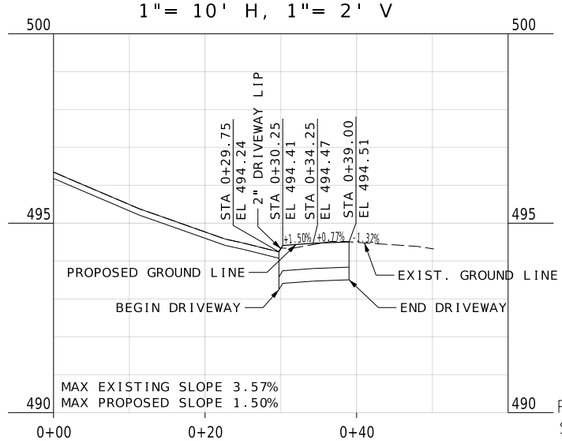
DRIVEWAY PROFILE 87
STA. 62+30.86 (LT) RTE 231
1"= 10' H, 1"= 2' V



DRIVEWAY PROFILE 88
STA. 63+20.07 (LT) RTE 231
1"= 10' H, 1"= 2' V



DRIVEWAY PROFILE 89
STA. 63+30.59 (LT) RTE 231
1"= 10' H, 1"= 2' V



DRIVEWAY PROFILE SHEETS
SHEET 10 OF 21

LAYOUT	NS	01/2025
DRAWN	SMC	01/2025
REVIEWED	DJK	01/2025

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STATE OF MISSOURI
DENNIS J KOSCIELSKI
NUMBER PE-2005000712
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY

DATE PREPARED
7/25/2025

ROUTE	STATE
231	MO
DISTRICT	SHEET NO.
SL	120

COUNTY
ST. LOUIS

JOB NO.
J6S3631

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION	DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

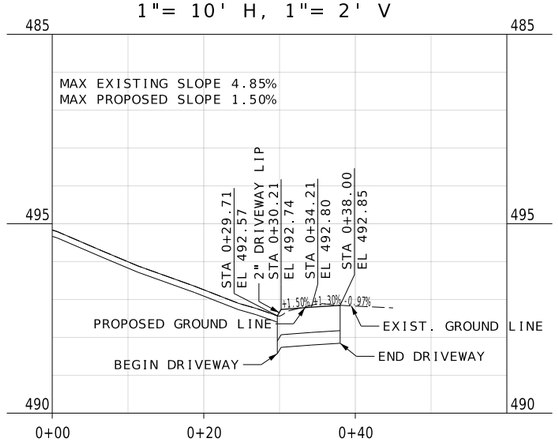
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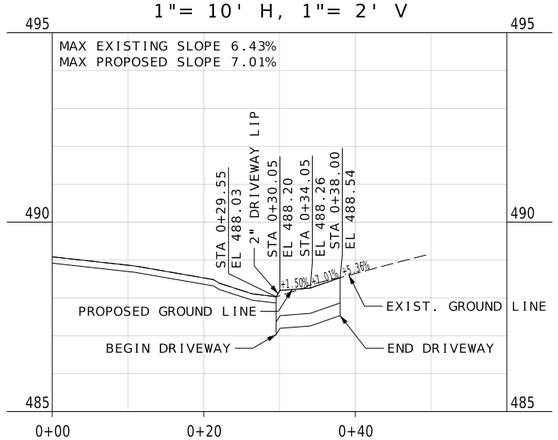
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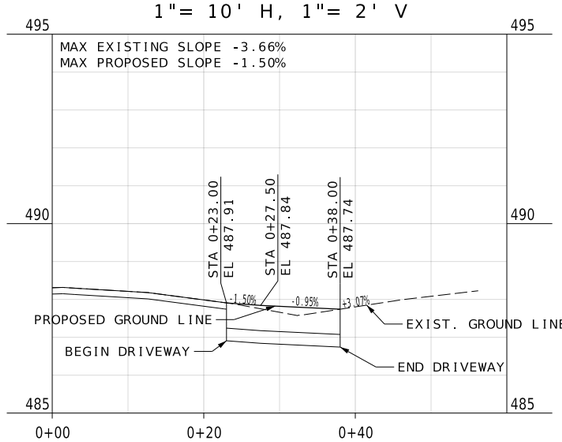
DRIVEWAY PROFILE 90
STA. 63+77.82 (LT) RTE 231
1"= 10' H, 1"= 2' V



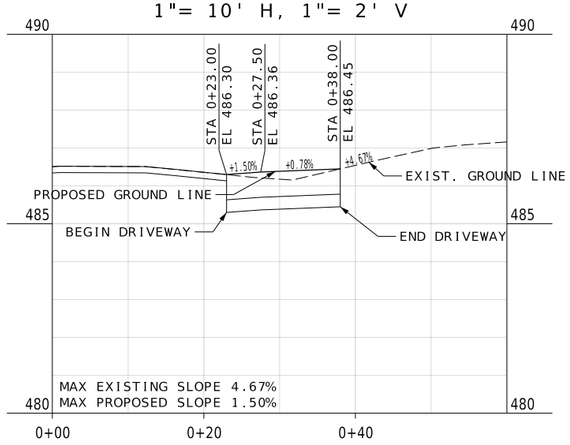
DRIVEWAY PROFILE 91
STA. 66+14.91 (LT) RTE 231
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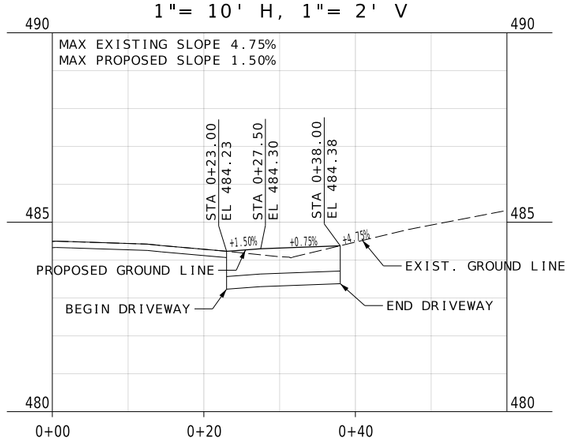
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STA. 66+88.36 (RT) RTE 231
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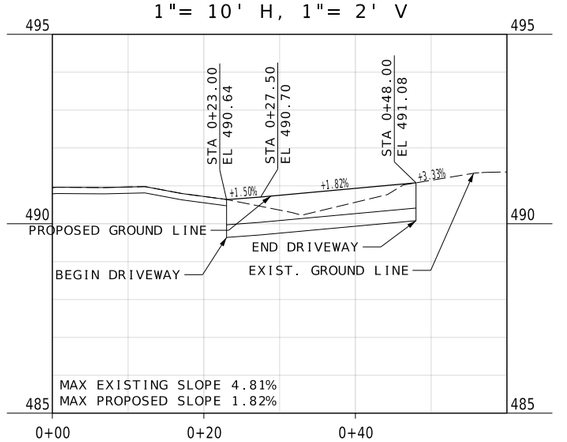
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1"= 10' H, 1"= 2' V



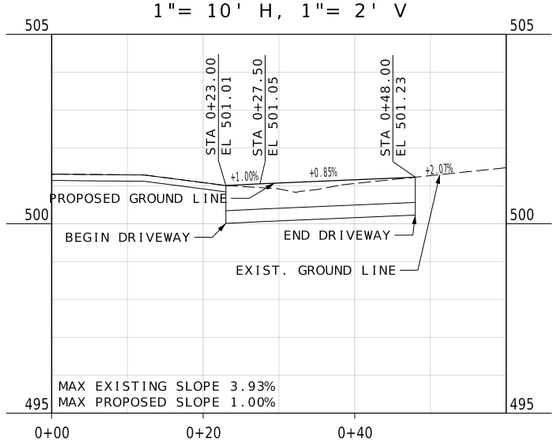
DRIVEWAY PROFILE 94
STA. 70+11.55 (RT) RTE 231
1"= 10' H, 1"= 2' V



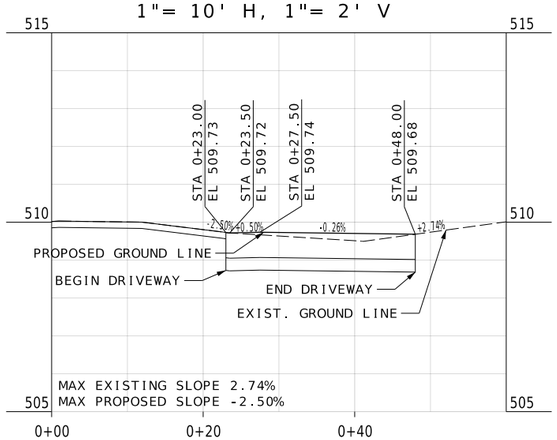
DRIVEWAY PROFILE 95
STA. 72+77.08 (RT) RTE 231
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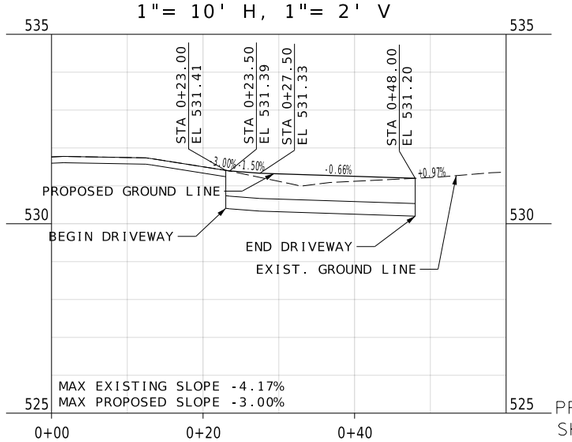
DRIVEWAY PROFILE 96
STA. 74+23.01 (RT) RTE 231
1"= 10' H, 1"= 2' V



DRIVEWAY PROFILE 97
STA. 75+42.21 (RT) RTE 231
1"= 10' H, 1"= 2' V



DRIVEWAY PROFILE 98
STA. 79+18.69 (RT) RTE 231
1"= 10' H, 1"= 2' V



DRIVEWAY PROFILE SHEETS
SHEET 11 OF 21

LAYOUT	NS	01/2025
DRAWN	SMC	01/2025
REVIEWED	DJK	01/2025

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STATE OF MISSOURI
DENNIS J KOSCIELSKI
NUMBER PE-2005000712
PROFESSIONAL ENGINEER

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DATE PREPARED
7/25/2025

ROUTE	STATE
231	MO
DISTRICT	SHEET NO.
SL	121

COUNTY
ST. LOUIS

JOB NO.
J6S3631

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

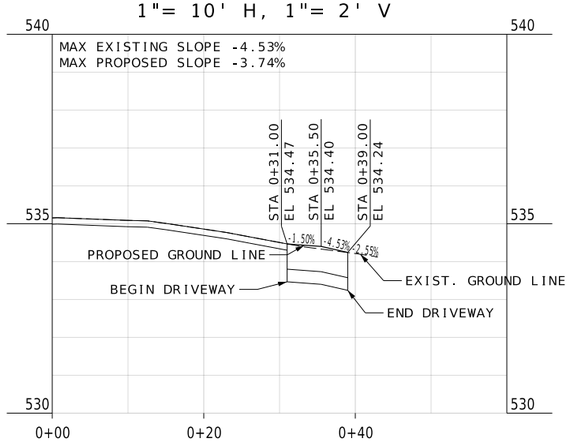
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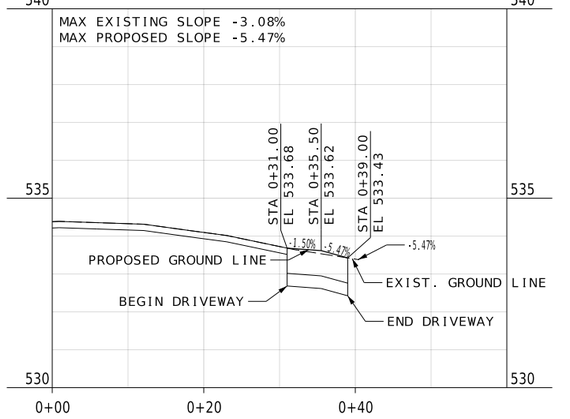
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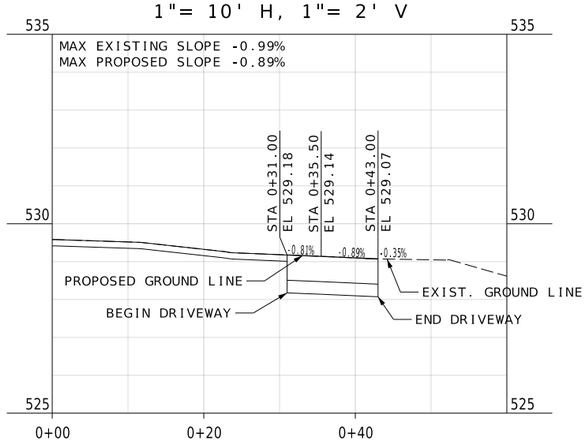
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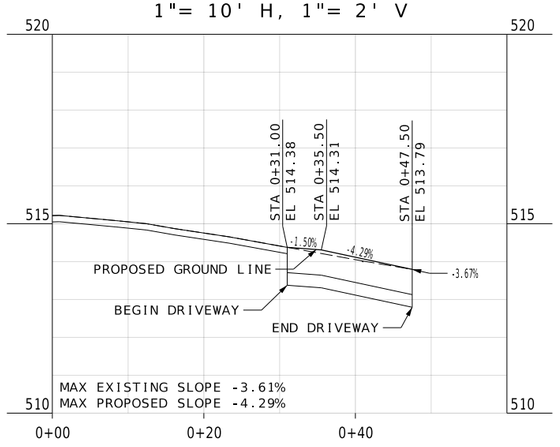
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STA. 82+51.98 (RT) RTE 231
1"= 10' H, 1"= 2' V



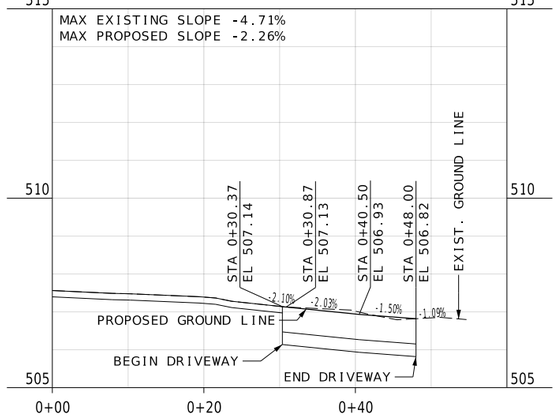
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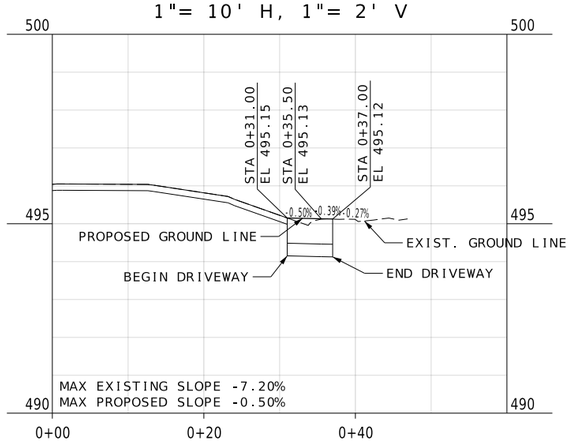
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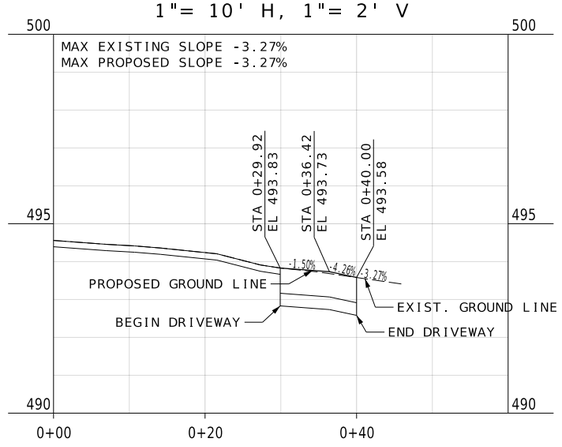
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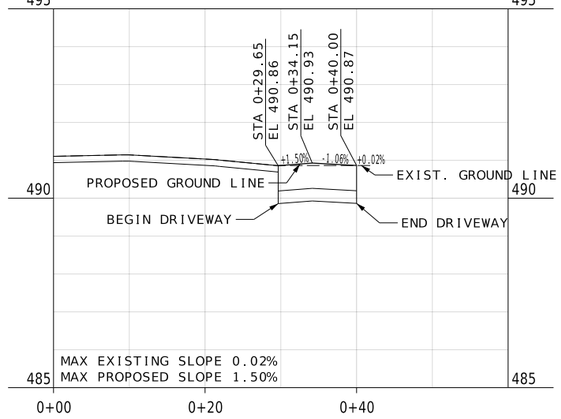
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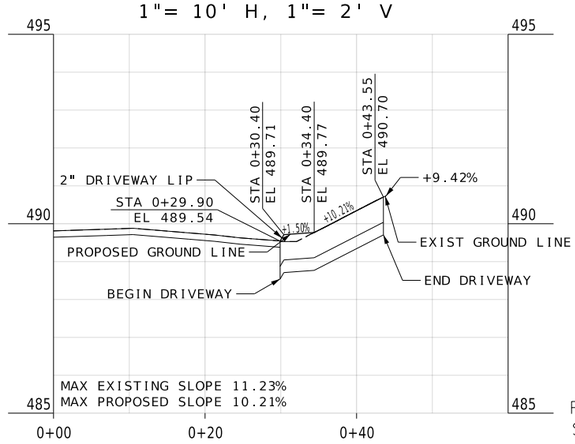
DRIVEWAY PROFILE 105
STA. 91+24.67 (LT) RTE 231
1"= 10' H, 1"= 2' V



DRIVEWAY PROFILE 106
STA. 92+14.64 (LT) RTE 231
1"= 10' H, 1"= 2' V



DRIVEWAY PROFILE 107
STA. 92+58.67 (LT) RTE 231
1"= 10' H, 1"= 2' V



DRIVEWAY PROFILE SHEETS
SHEET 12 OF 21

LAYOUT	NS	01/2025
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DENNIS J KOSCIELSKI
NUMBER PE-2005000712
PROFESSIONAL ENGINEER

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DATE PREPARED
7/25/2025

ROUTE	STATE
231	MO
DISTRICT	SHEET NO.
SL	122

COUNTY
ST. LOUIS

JOB NO.
J6S3631

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DATE	DESCRIPTION

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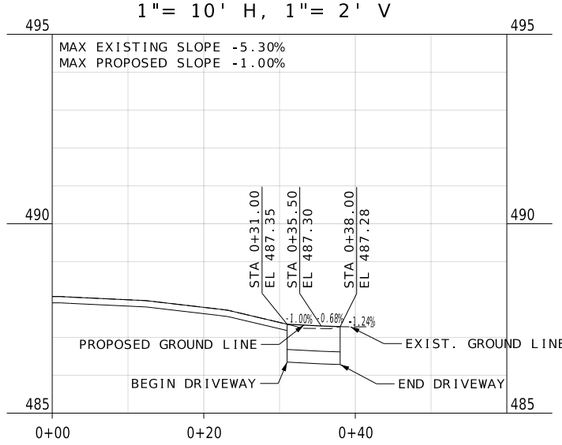
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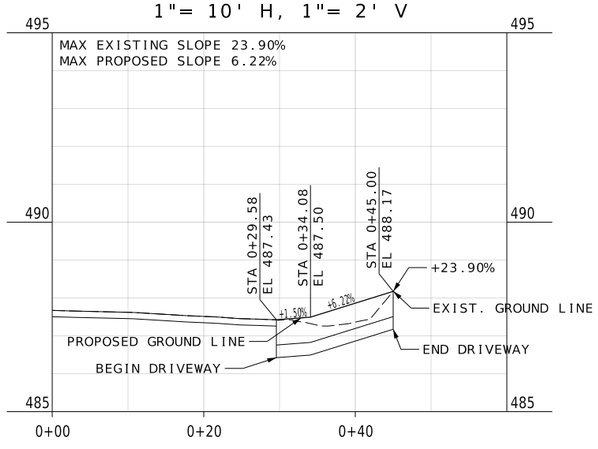
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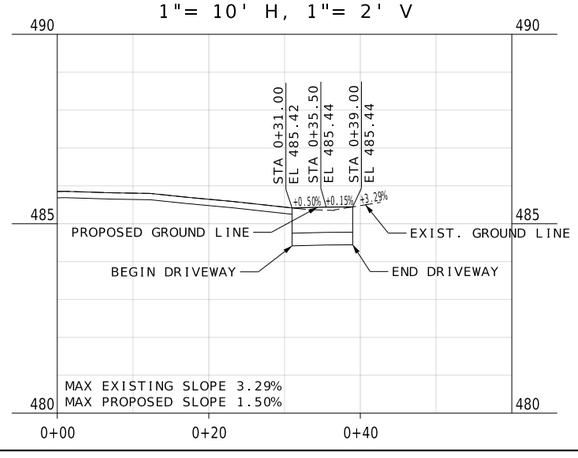
DRIVEWAY PROFILE 108
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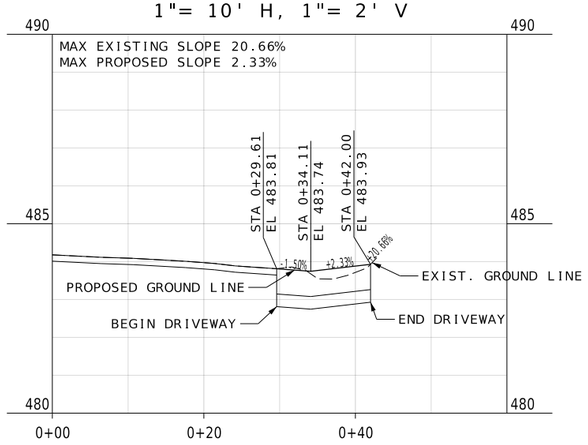
DRIVEWAY PROFILE 109
STA. 93+25.04 (LT) RTE 231
1"= 10' H, 1"= 2' V



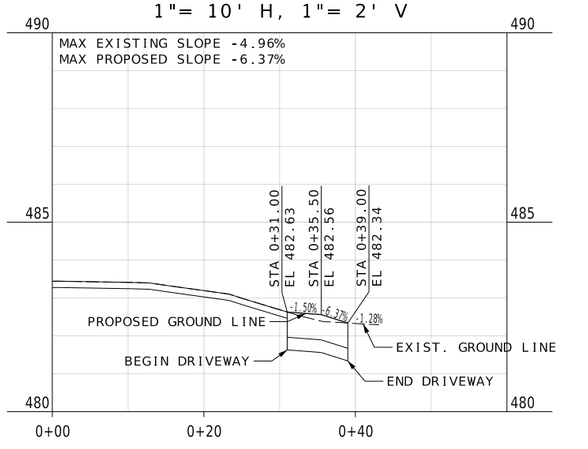
DRIVEWAY PROFILE 110
STA. 93+77.26 (RT) RTE 231
1"= 10' H, 1"= 2' V



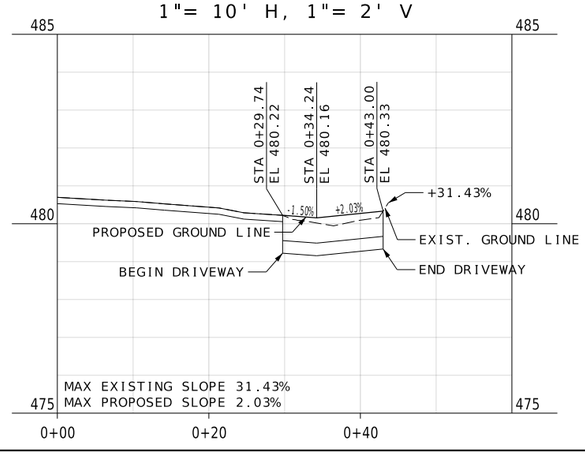
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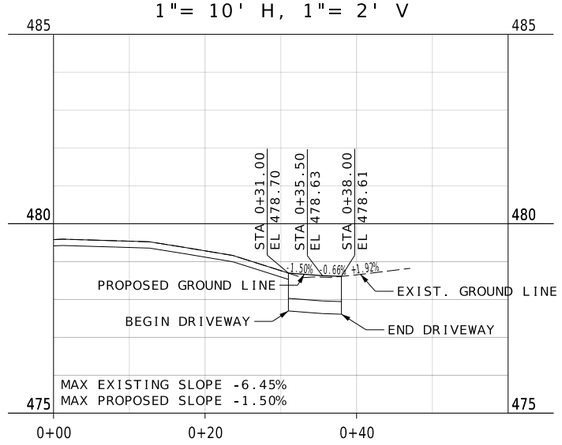
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STA. 94+46.60 (RT) RTE 231
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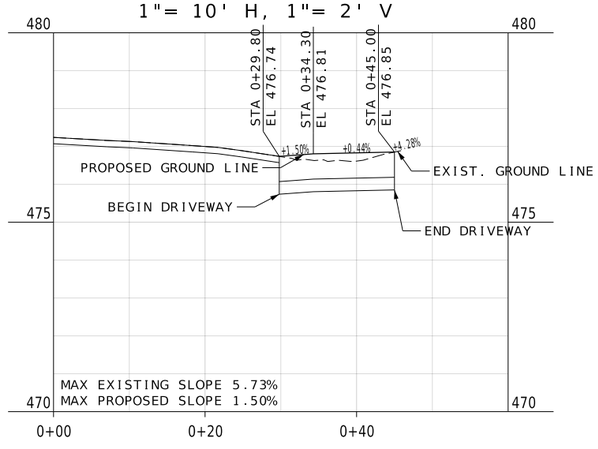
DRIVEWAY PROFILE 113
STA. 95+25.26 (LT) RTE 231
1"= 10' H, 1"= 2' V



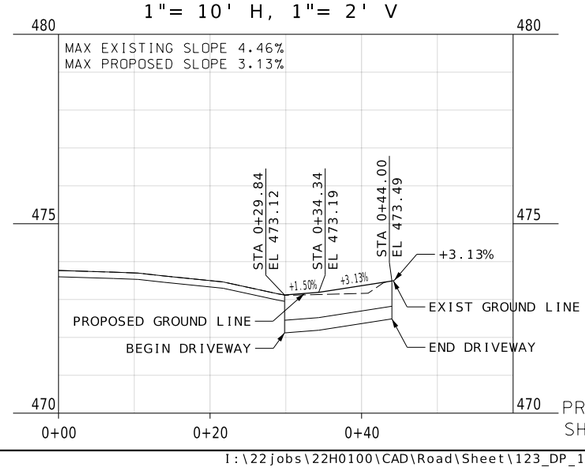
DRIVEWAY PROFILE 114
STA. 95+56.62 (RT) RTE 231
1"= 10' H, 1"= 2' V



DRIVEWAY PROFILE 115
STA. 96+24.32 (LT) RTE 231
1"= 10' H, 1"= 2' V



DRIVEWAY PROFILE 116
STA. 97+24.30 (LT) RTE 231
1"= 10' H, 1"= 2' V



DRIVEWAY
PROFILE SHEETS
SHEET 13 OF 21

DISCLAIMER
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STATE OF MISSOURI
DENNIS J KOSCIELSKI
NUMBER PE-2005000712
PROFESSIONAL ENGINEER

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DATE PREPARED: 7/25/2025

ROUTE	STATE
231	MO
DISTRICT	SHEET NO.
SL	123

COUNTY: ST. LOUIS
JOB NO.: J6S3631
CONTRACT ID.:
PROJECT NO.:
BRIDGE NO.:

DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

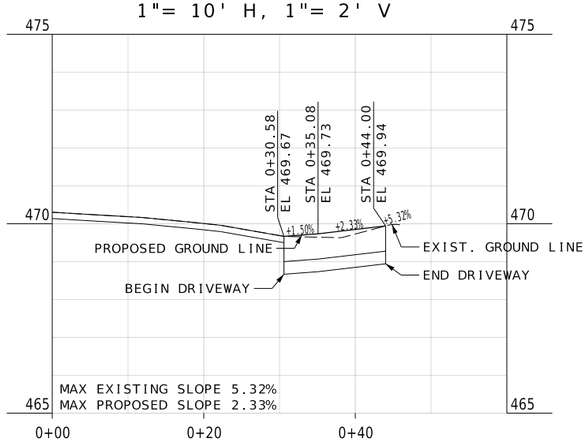
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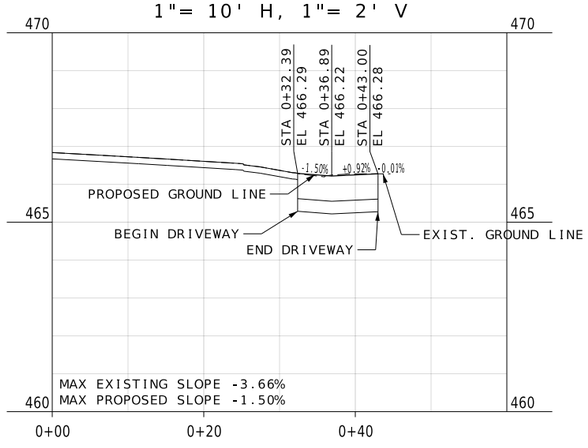
LAYOUT	NS	01/2025
DRAWN	SMC	01/2025
REVIEWED	DJK	01/2025

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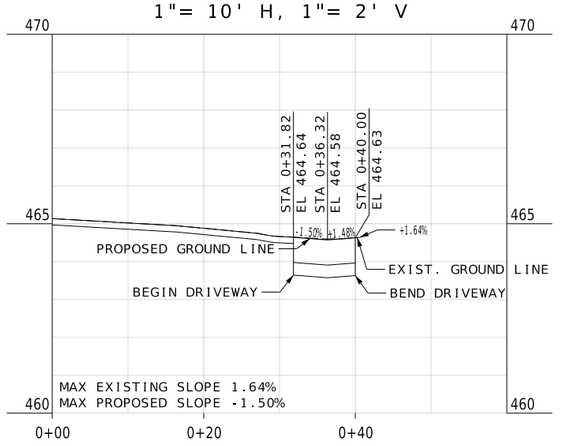
DRIVEWAY PROFILE 117
STA. 98+24.67 (LT) RTE 231
1"= 10' H, 1"= 2' V



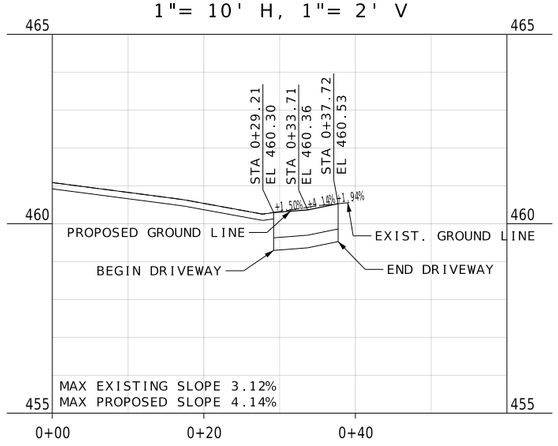
DRIVEWAY PROFILE 118
STA. 99+21.55 (LT) RTE 231
1"= 10' H, 1"= 2' V



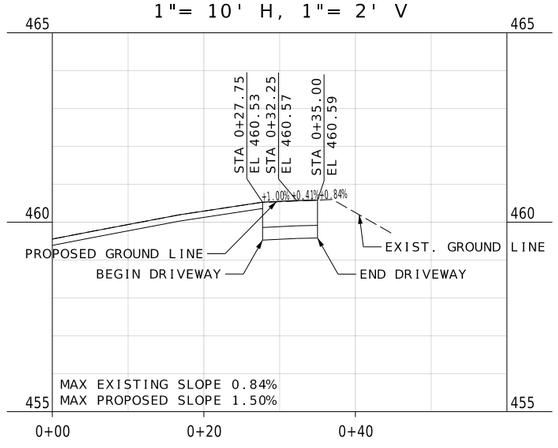
DRIVEWAY PROFILE 119
STA. 99+70.92 (LT) RTE 231
1"= 10' H, 1"= 2' V



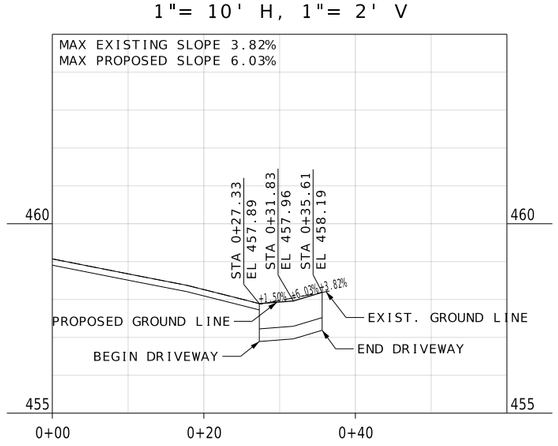
DRIVEWAY PROFILE 120
STA. 101+04.14 (LT) RTE 231
1"= 10' H, 1"= 2' V



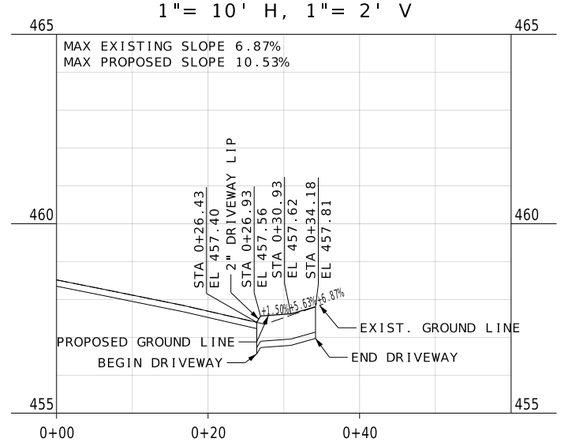
DRIVEWAY PROFILE 121
STA. 101+78.75 (RT) RTE 231
1"= 10' H, 1"= 2' V



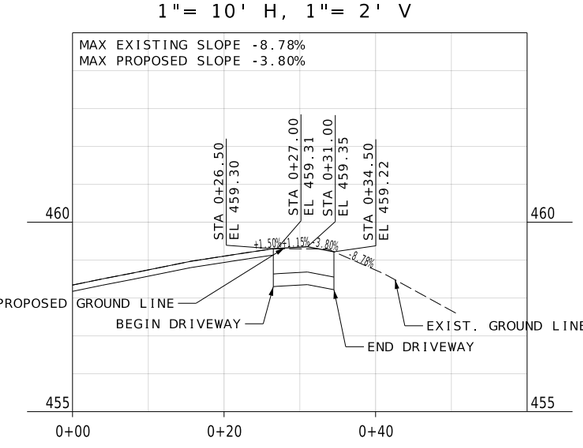
DRIVEWAY PROFILE 122
STA. 102+09.08 (LT) RTE 231
1"= 10' H, 1"= 2' V



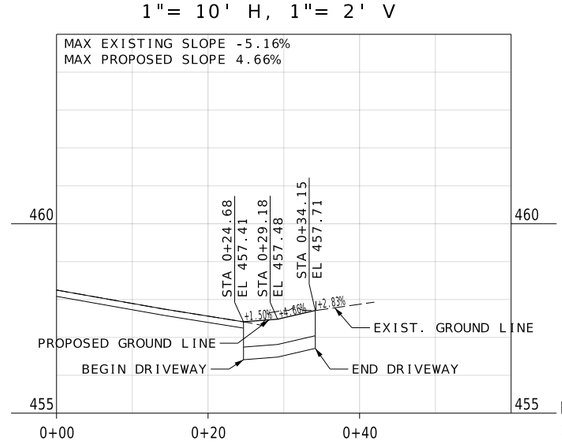
DRIVEWAY PROFILE 123
STA. 102+57.65 (LT) RTE 231
1"= 10' H, 1"= 2' V



DRIVEWAY PROFILE 124
STA. 102+88.22 (RT) RTE 231
1"= 10' H, 1"= 2' V



DRIVEWAY PROFILE 125
STA. 103+52.59 (LT) RTE 231
1"= 10' H, 1"= 2' V



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STATE OF MISSOURI
DENNIS J KOSCIELSKI
NUMBER PE-2005000712
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED
7/25/2025

ROUTE	STATE
231	MO
DISTRICT	SHEET NO.
SL	124

COUNTY
ST. LOUIS

JOB NO.
J6S3631

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION	DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
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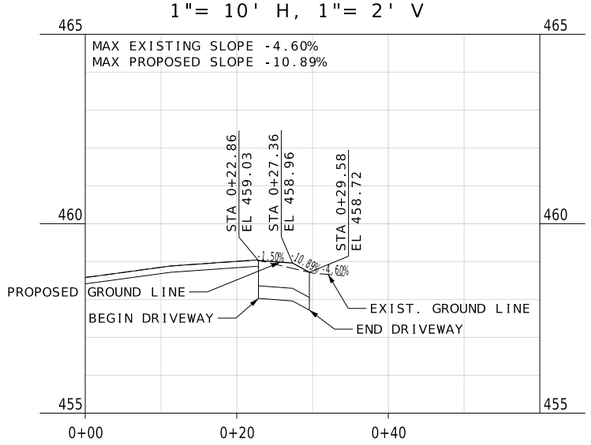
LAYOUT	NS	01/2025
DRAWN	SMC	01/2025
REVIEWED	DJK	01/2025

DRIVEWAY PROFILE SHEETS
SHEET 14 OF 21

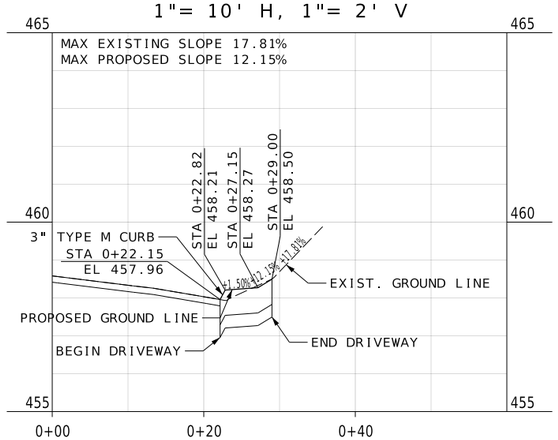
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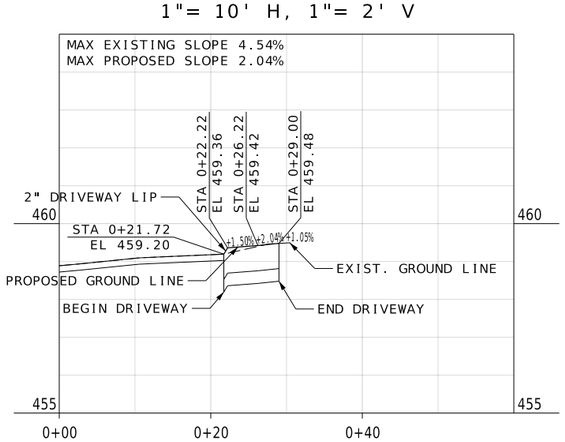
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STA. 104+20.77 (RT) RTE 231
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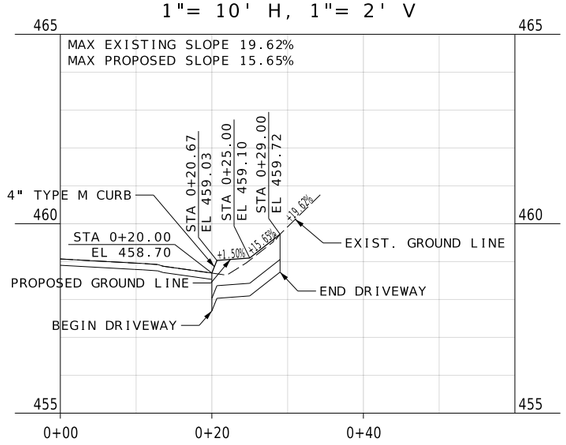
DRIVEWAY PROFILE 127
STA. 104+20.99 (LT) RTE 231
1"= 10' H, 1"= 2' V



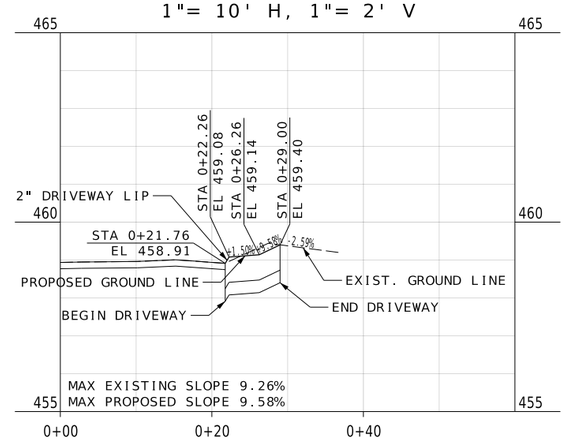
DRIVEWAY PROFILE 128
STA. 104+67.09 (RT) RTE 231
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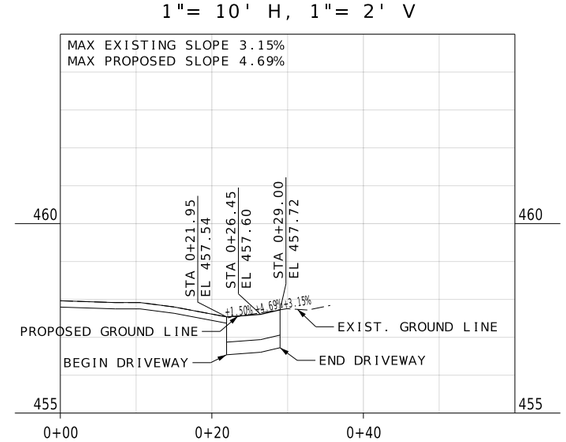
DRIVEWAY PROFILE 129
STA. 105+25.15 (LT) RTE 231
1"= 10' H, 1"= 2' V



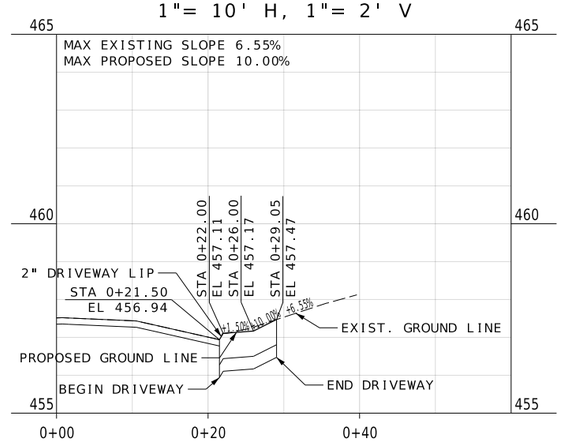
DRIVEWAY PROFILE 130
STA. 105+43.46 (RT) RTE 231
1"= 10' H, 1"= 2' V



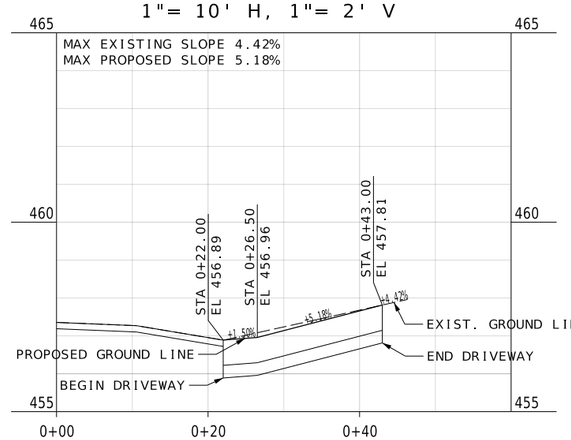
DRIVEWAY PROFILE 131
STA. 106+21.90 (RT) RTE 231
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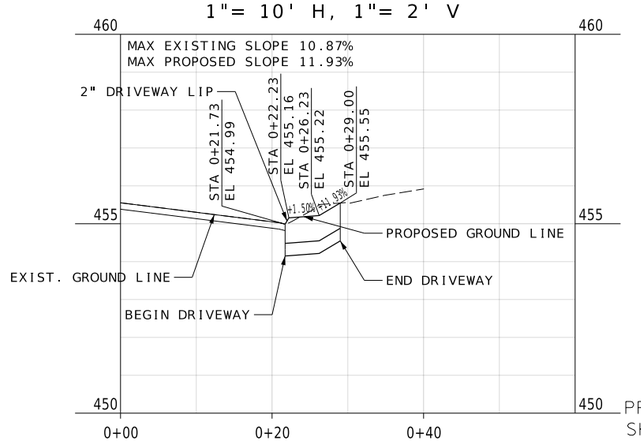
DRIVEWAY PROFILE 132
STA. 106+51.41 (LT) RTE 231
1"= 10' H, 1"= 2' V



DRIVEWAY PROFILE 133
STA. 106+61.43 (RT) RTE 231
1"= 10' H, 1"= 2' V



DRIVEWAY PROFILE 134
STA. 109+08.45 (LT) RTE 231
1"= 10' H, 1"= 2' V



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STATE OF MISSOURI
DENNIS J KOSCIELSKI
NUMBER PE-2005000712
PROFESSIONAL ENGINEER

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DATE PREPARED	
7/25/2025	
ROUTE	STATE
231	MO
DISTRICT	SHEET NO.
SL	125
COUNTY	
ST. LOUIS	
JOB NO.	
J6S3631	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

DESCRIPTION	DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
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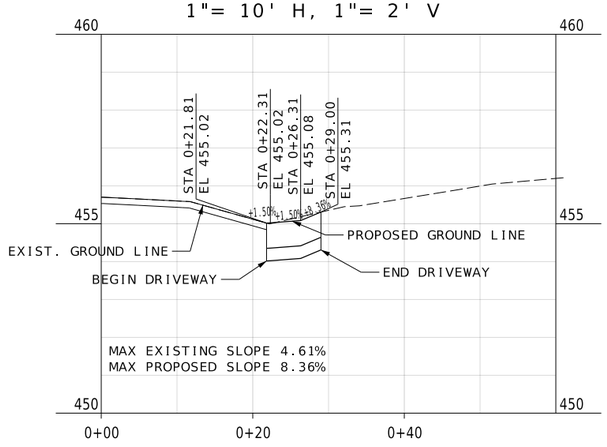
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LAYOUT	NS	01/2025
DRAWN	SMC	01/2025
REVIEWED	DJK	01/2025

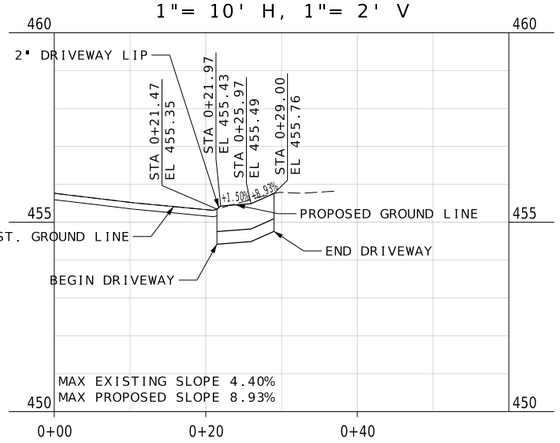
DRIVEWAY PROFILE SHEETS
SHEET 15 OF 21

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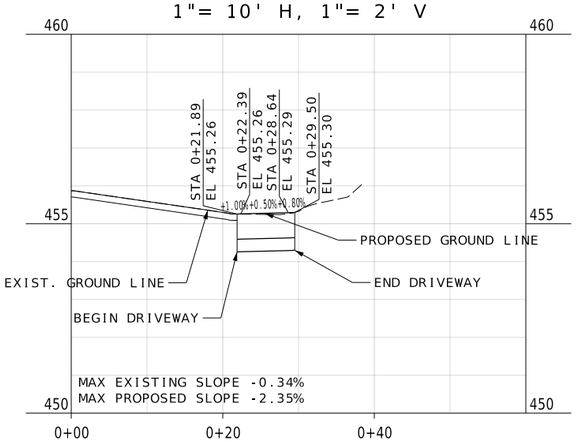
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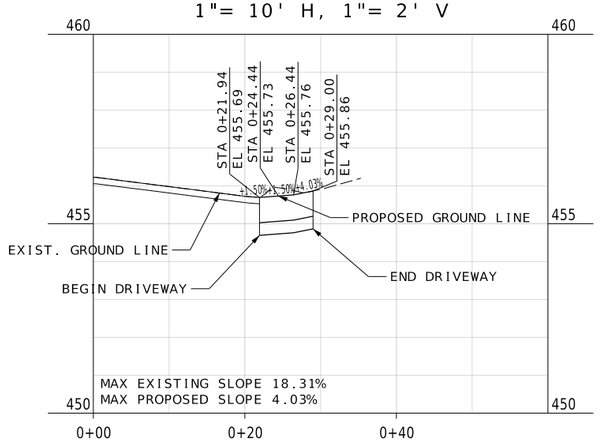
DRIVEWAY PROFILE 136
STA. 110+15.67 (LT) RTE 231
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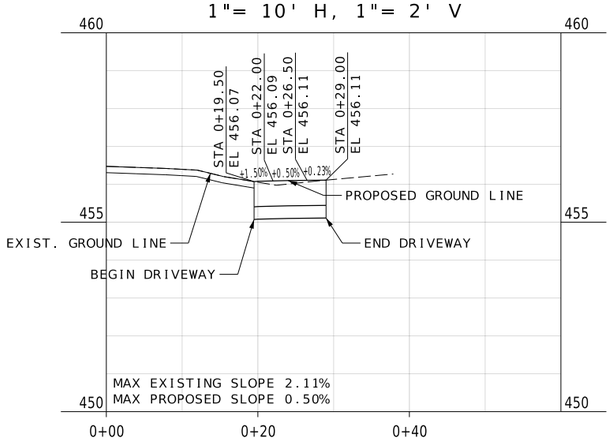
DRIVEWAY PROFILE 137
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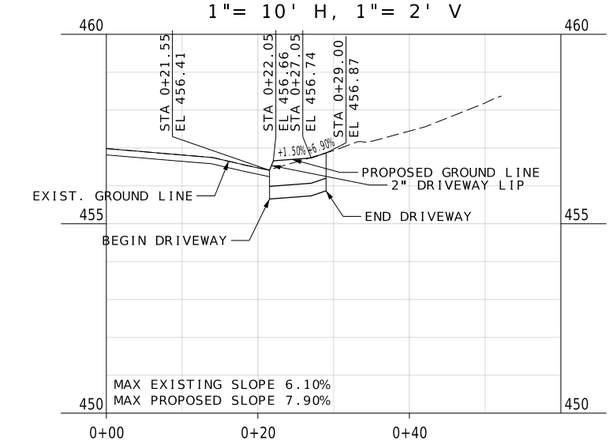
DRIVEWAY PROFILE 138
STA. 111+94.86 (LT) RTE 231
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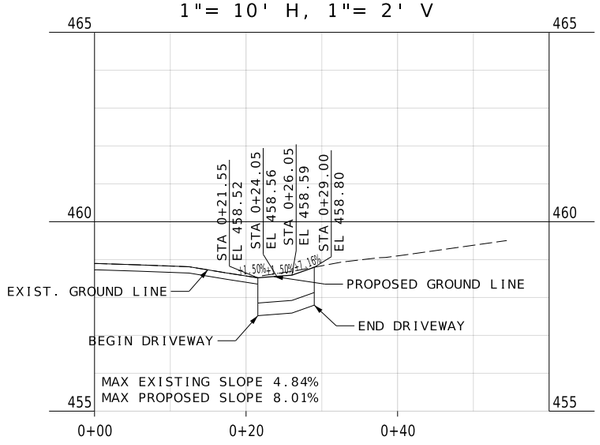
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STA. 112+36.64 (RT) RTE 231
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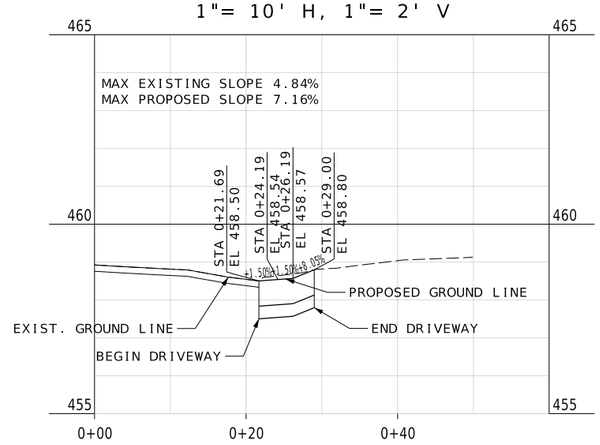
DRIVEWAY PROFILE 140
STA. 112+90.70 (LT) RTE 231
1"= 10' H, 1"= 2' V



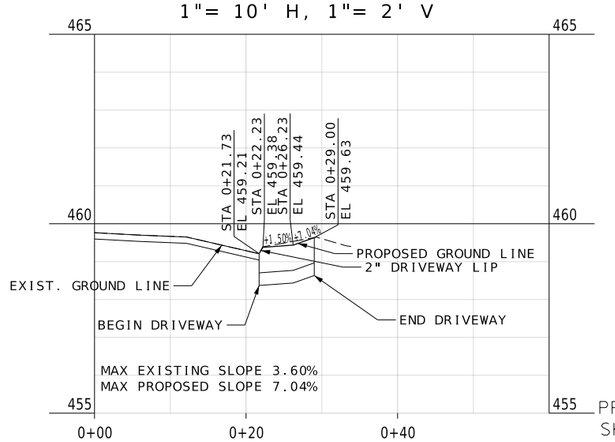
DRIVEWAY PROFILE 141
STA. 114+16.54 (RT) RTE 231
1"= 10' H, 1"= 2' V



DRIVEWAY PROFILE 142
STA. 114+18.41 (LT) RTE 231
1"= 10' H, 1"= 2' V



DRIVEWAY PROFILE 143
STA. 114+65.45 (LT) RTE 231
1"= 10' H, 1"= 2' V



DRIVEWAY PROFILE SHEETS
SHEET 16 OF 21

LAYOUT	NS	01/2025
DRAWN	SMC	01/2025
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STATE OF MISSOURI
DENNIS J KOSCIELSKI
NUMBER PE-2005000712
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED
7/25/2025

ROUTE	STATE
231	MO
DISTRICT	SHEET NO.
SL	126

COUNTY
ST. LOUIS

JOB NO.
J6S3631

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION	DATE

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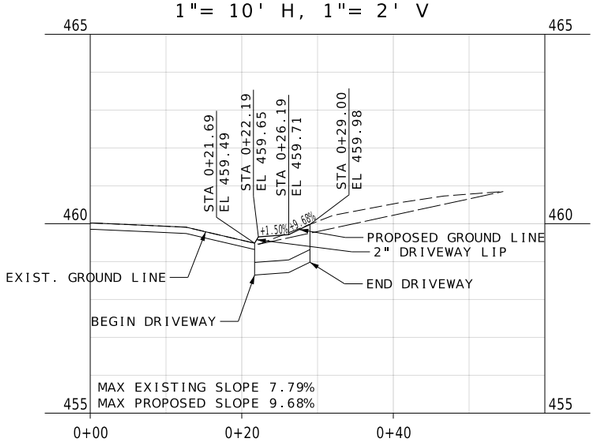
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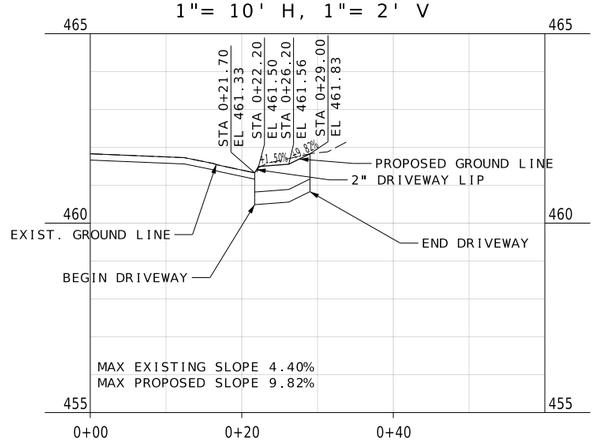
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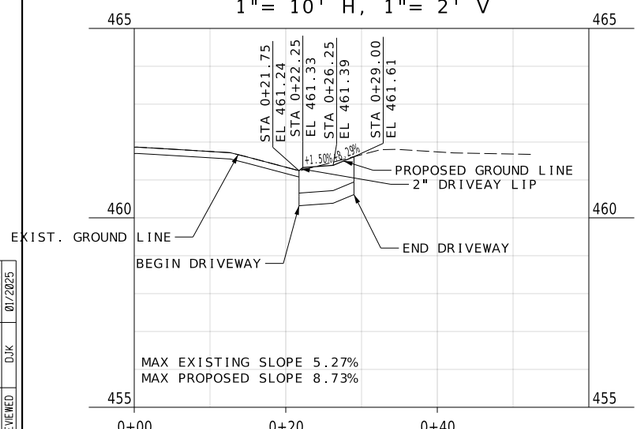
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STA. 114+78.27 (RT) RTE 231
1"= 10' H, 1"= 2' V



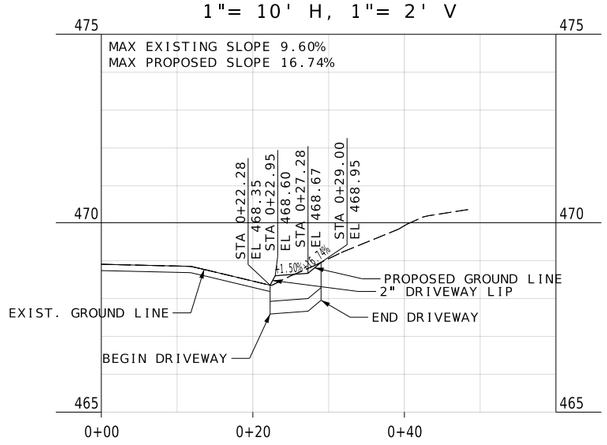
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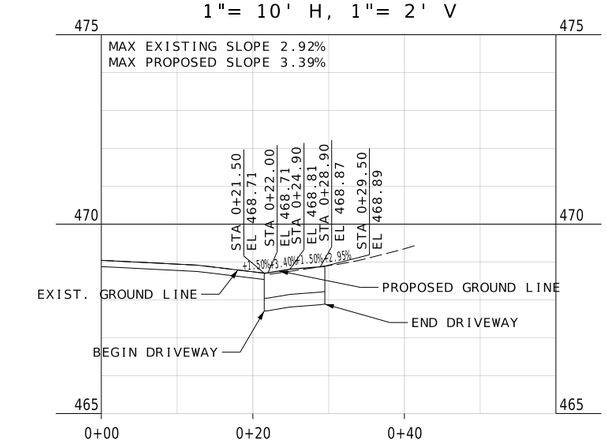
DRIVEWAY PROFILE 145
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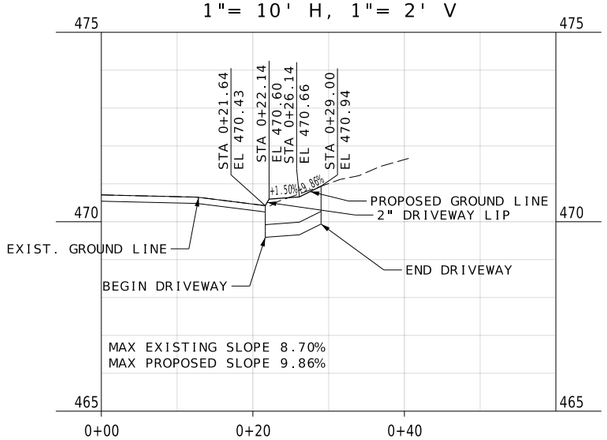
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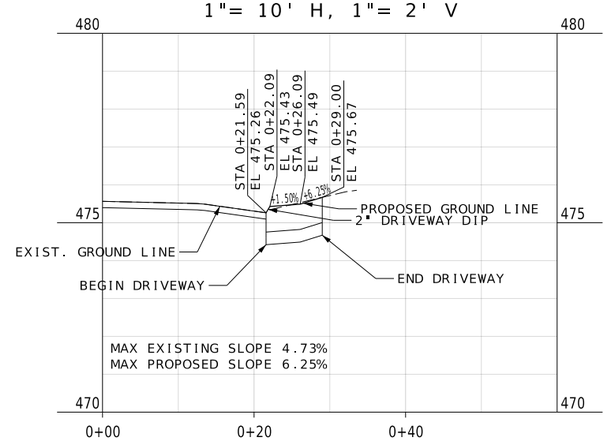
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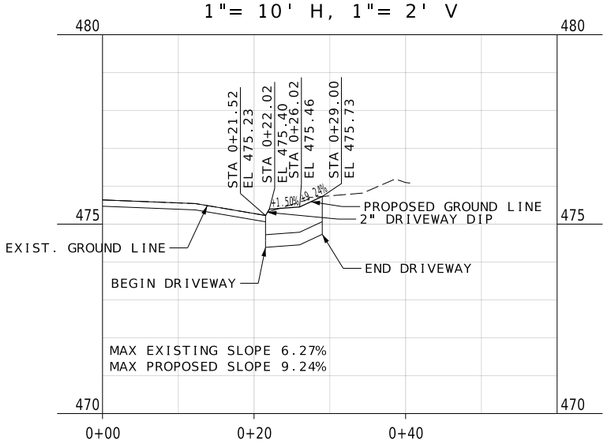
DRIVEWAY PROFILE 148
STA. 118+02.39 (RT) RTE 231
1"= 10' H, 1"= 2' V



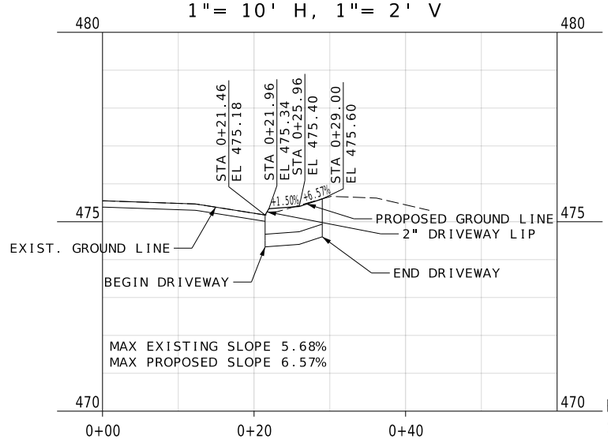
DRIVEWAY PROFILE 149
STA. 119+75.61 (RT) RTE 231
1"= 10' H, 1"= 2' V



DRIVEWAY PROFILE 150
STA. 120+72.51 (RT) RTE 231
1"= 10' H, 1"= 2' V



DRIVEWAY PROFILE 151
STA. 121+03.22 (RT) RTE 231
1"= 10' H, 1"= 2' V



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STATE OF MISSOURI
DENNIS J KOSCIELSKI
NUMBER PE-2005000712
PROFESSIONAL ENGINEER

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DATE PREPARED: 7/25/2025

ROUTE	STATE
231	MO
DISTRICT	SHEET NO.
SL	127

COUNTY: ST. LOUIS
JOB NO.: J6S3631
CONTRACT ID.:
PROJECT NO.:
BRIDGE NO.:

DATE	DESCRIPTION

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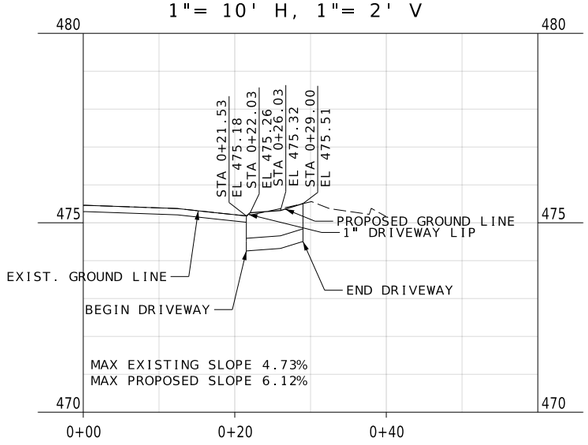
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LAYOUT	NS	01/2025
DRAWN	SMC	01/2025
REVIEWED	DJK	01/2025

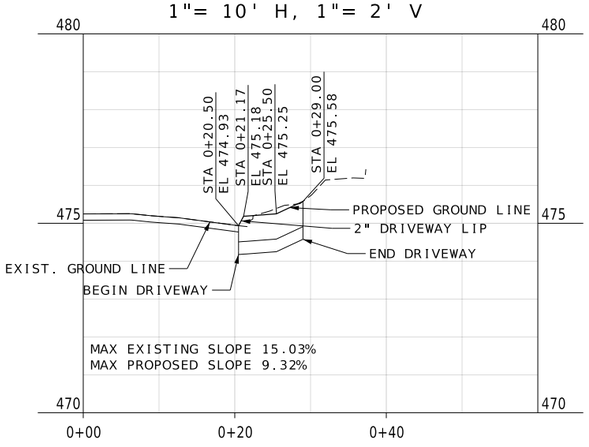
DRIVEWAY PROFILE SHEETS
SHEET 17 OF 21

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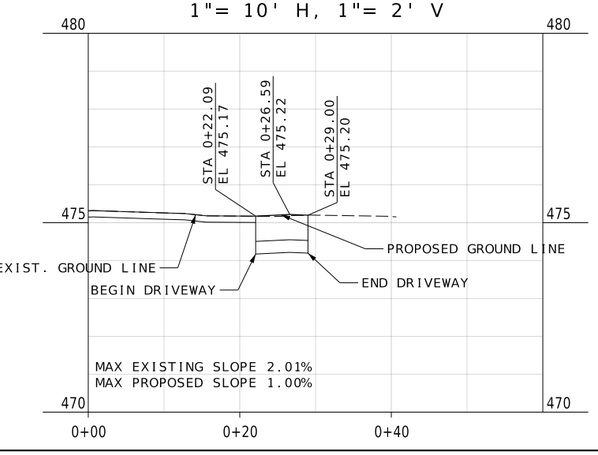
DRIVEWAY PROFILE 152
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1"= 10' H, 1"= 2' V



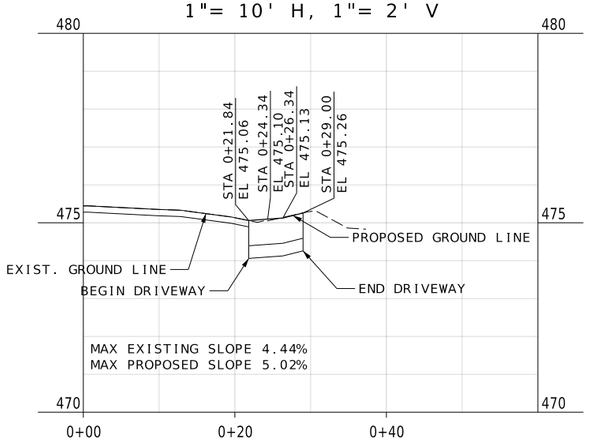
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STA. 121+98.72 (LT) RTE 231
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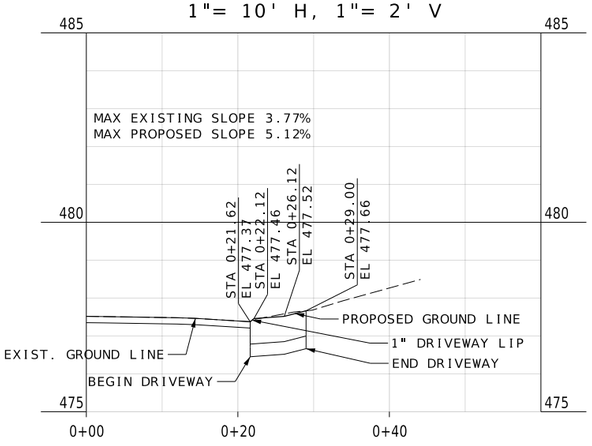
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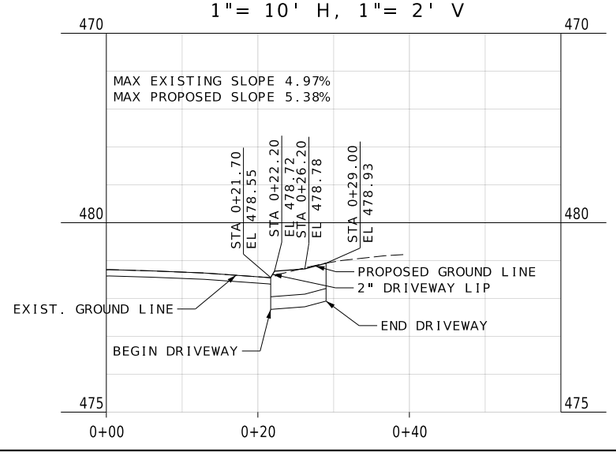
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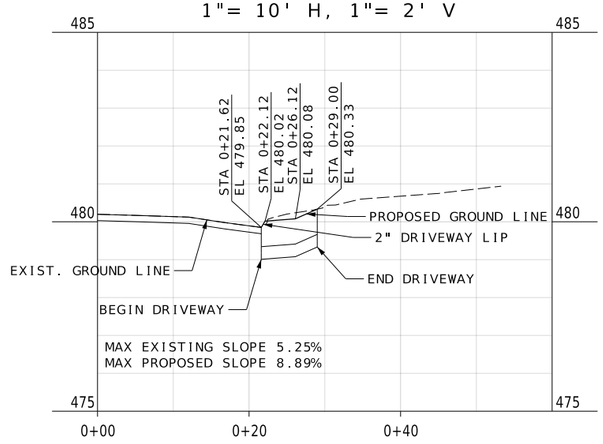
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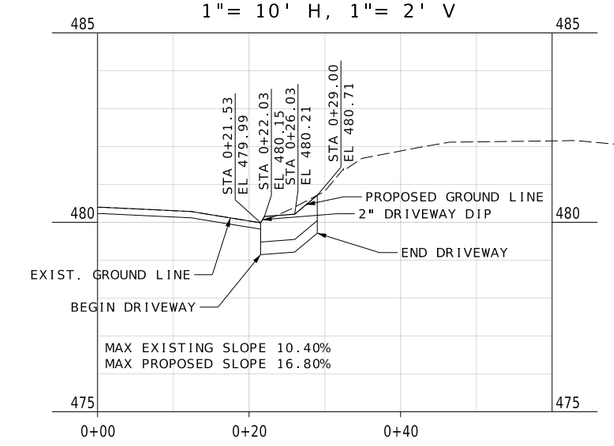
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1"= 10' H, 1"= 2' V



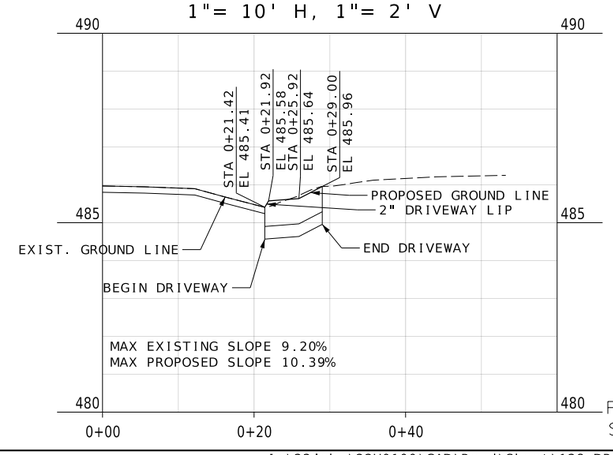
DRIVEWAY PROFILE 158
STA. 126+16.51 (LT) RTE 231
1"= 10' H, 1"= 2' V



DRIVEWAY PROFILE 159
STA. 126+26.17 (RT) RTE 231
1"= 10' H, 1"= 2' V



DRIVEWAY PROFILE 160
STA. 129+14.69 (LT) RTE 231
1"= 10' H, 1"= 2' V



DRIVEWAY PROFILE SHEETS
SHEET 18 OF 21

LAYOUT	NS	01/2025
DRAWN	SMC	01/2025
REVIEWED	DJK	01/2025

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STATE OF MISSOURI
DENNIS J KOSCIELSKI
NUMBER PE-2005000712
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED: 7/25/2025

ROUTE	STATE
231	MO
DISTRICT	SHEET NO.
SL	128

COUNTY: ST. LOUIS
JOB NO.: J6S3631
CONTRACT ID.:
PROJECT NO.:
BRIDGE NO.:

DATE	DESCRIPTION

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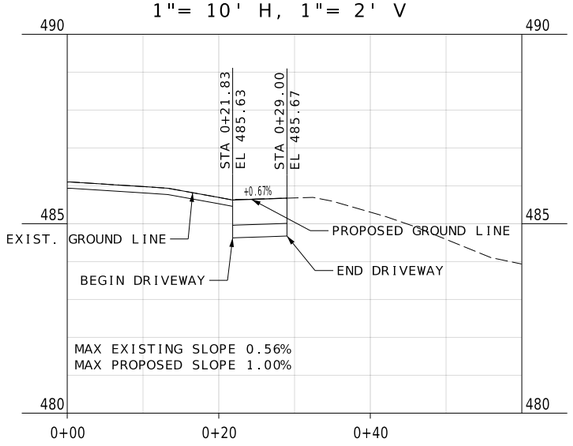
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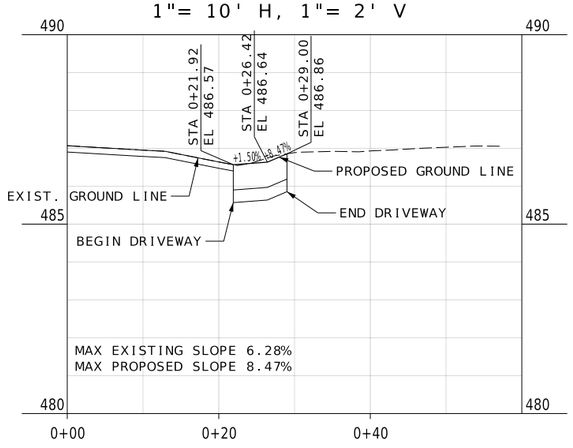
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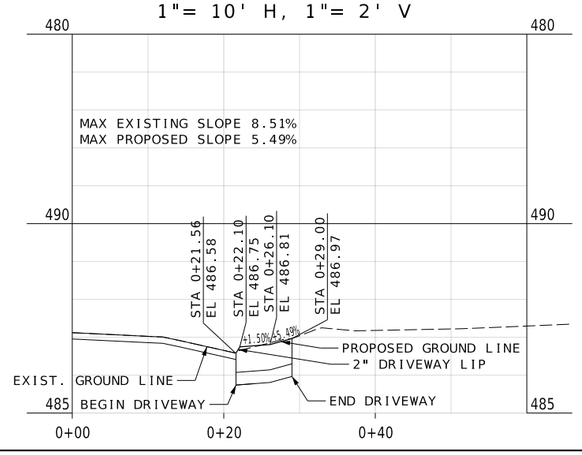
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STA. 129+22.26 (RT) RTE 231
1"= 10' H, 1"= 2' V



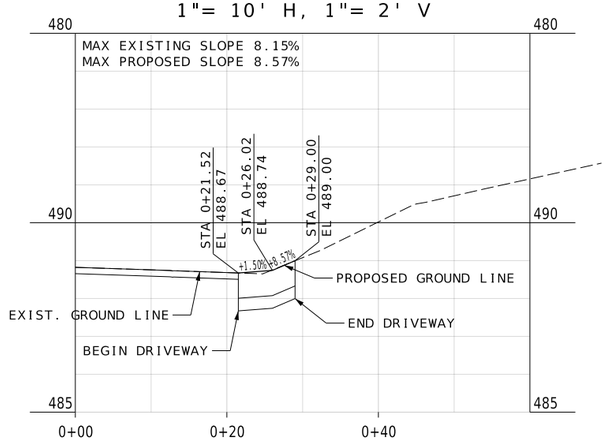
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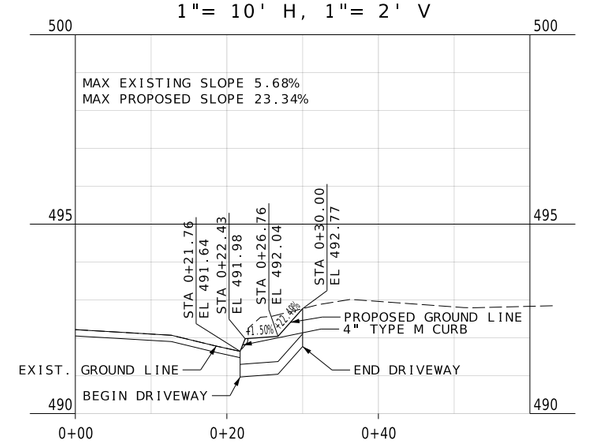
DRIVEWAY PROFILE 163
STA. 129+74.62 (LT) RTE 231
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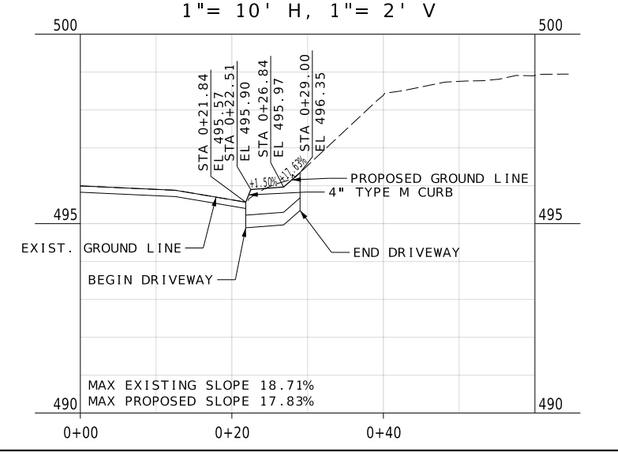
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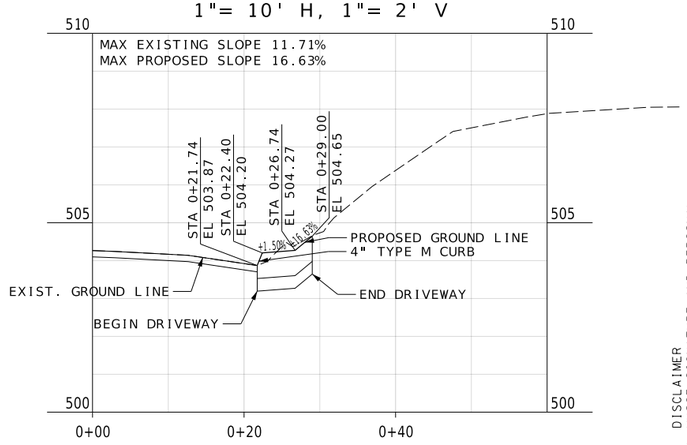
DRIVEWAY PROFILE 165
STA. 131+44.20 (RT) RTE 231
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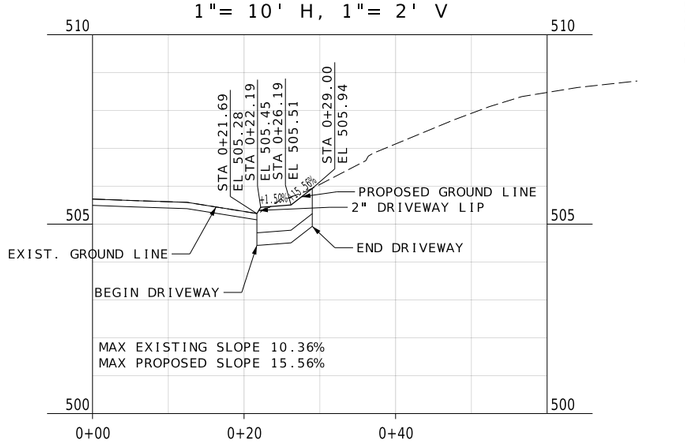
DRIVEWAY PROFILE 166
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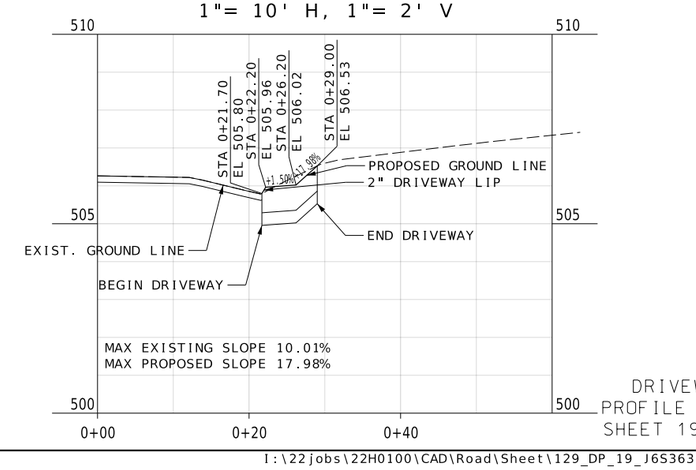
DRIVEWAY PROFILE 167
STA. 133+83.84 (RT) RTE 231
1"= 10' H, 1"= 2' V



DRIVEWAY PROFILE 168
STA. 134+16.67 (RT) RTE 231
1"= 10' H, 1"= 2' V



DRIVEWAY PROFILE 169
STA. 140+12.54 (LT) RTE 231
1"= 10' H, 1"= 2' V



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DENNIS J KOSCIELSKI
NUMBER PE-2005000712
PROFESSIONAL ENGINEER

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DATE PREPARED
7/25/2025

ROUTE	STATE
231	MO
DISTRICT	SHEET NO.
SL	129

COUNTY
ST. LOUIS

JOB NO.
J6S3631

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DATE	DESCRIPTION

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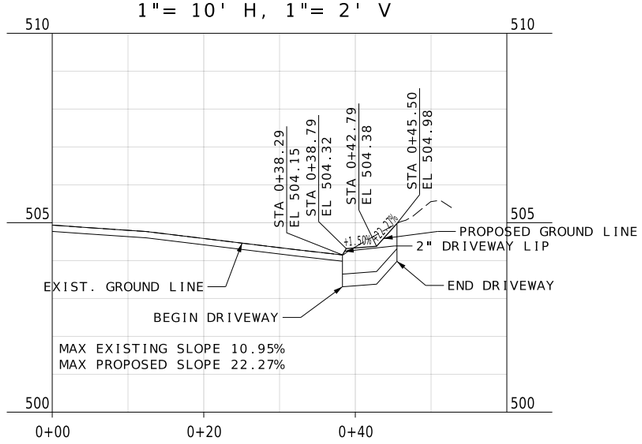
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REVIEWED	DJK	01/2025

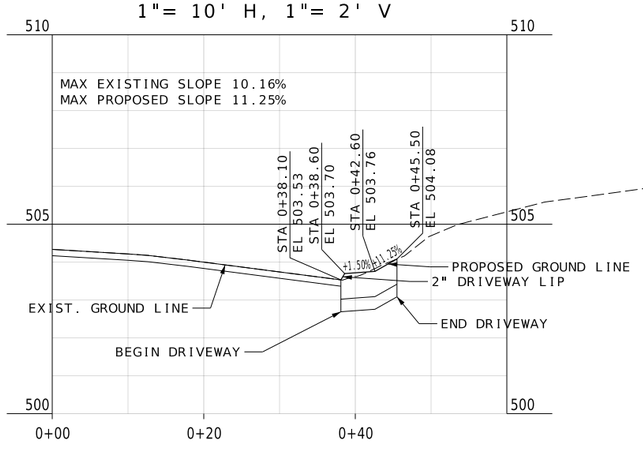
DRIVEWAY PROFILE SHEETS
SHEET 19 OF 21

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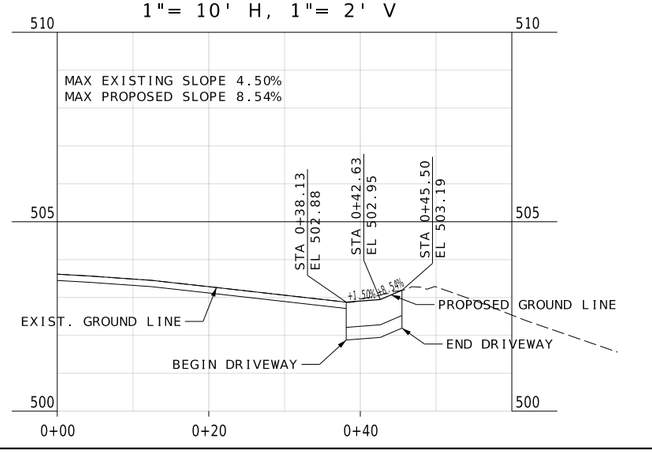
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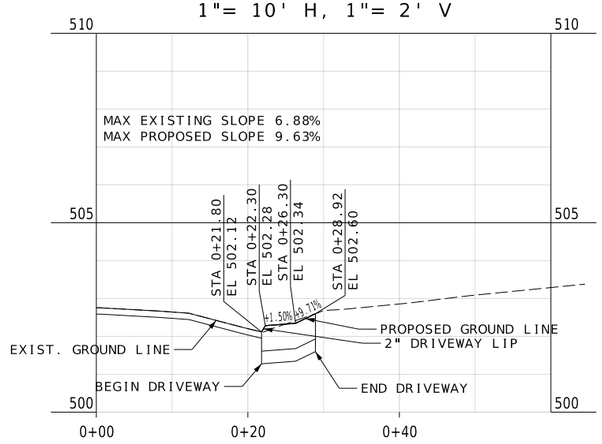
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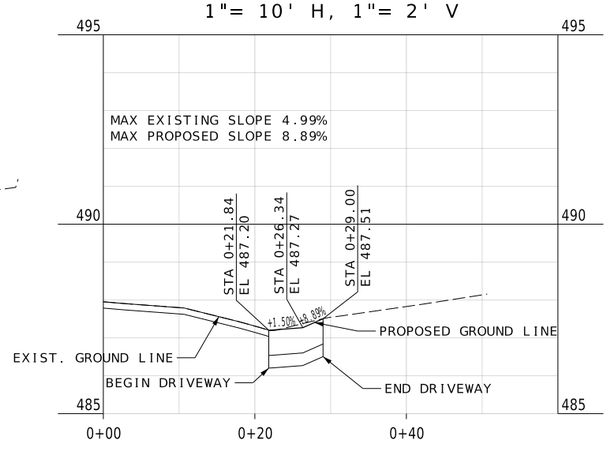
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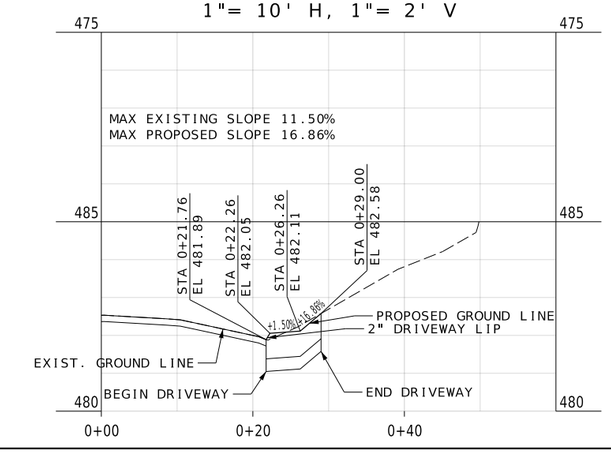
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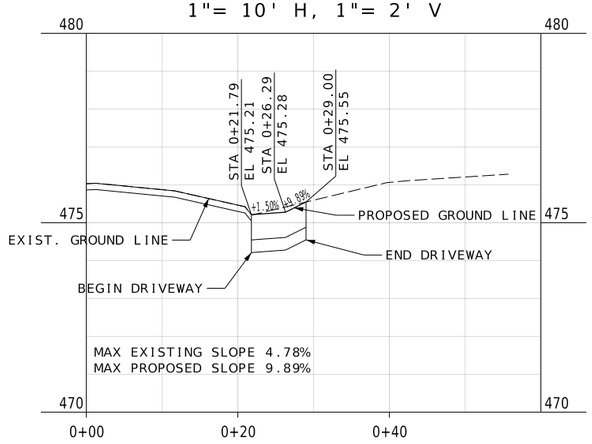
DRIVEWAY PROFILE 174
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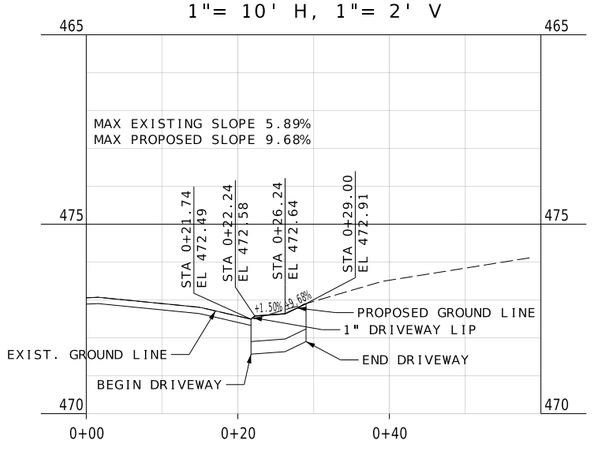
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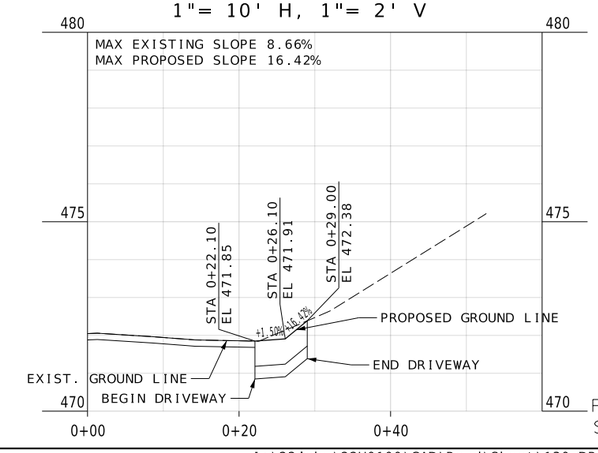
DRIVEWAY PROFILE 176
STA. 149+56.77 (LT) RTE 231
1"= 10' H, 1"= 2' V



DRIVEWAY PROFILE 177
STA. 151+04.56 (LT) RTE 231
1"= 10' H, 1"= 2' V



DRIVEWAY PROFILE 178
STA. 151+60.02 (LT) RTE 231
1"= 10' H, 1"= 2' V



DRIVEWAY PROFILE SHEETS
SHEET 20 OF 21

LAYOUT	NS	01/2025
DRAWN	SMC	01/2025
REVIEWED	DJK	01/2025

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STATE OF MISSOURI
DENNIS J KOSCIELSKI
NUMBER PE-2005000712
PROFESSIONAL ENGINEER

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DATE PREPARED
7/25/2025

ROUTE	STATE
231	MO
DISTRICT	SHEET NO.
SL	130

COUNTY
ST. LOUIS

JOB NO.
J6S3631

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION	DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

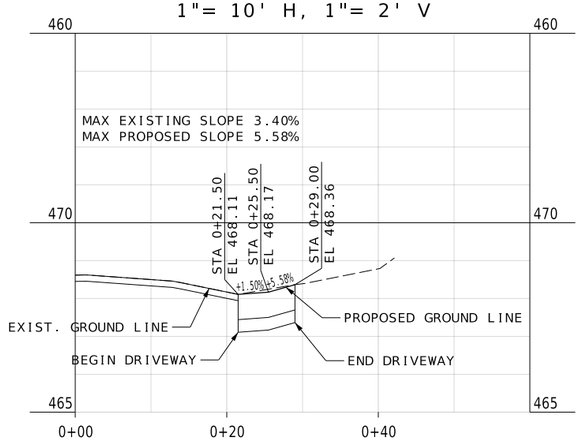
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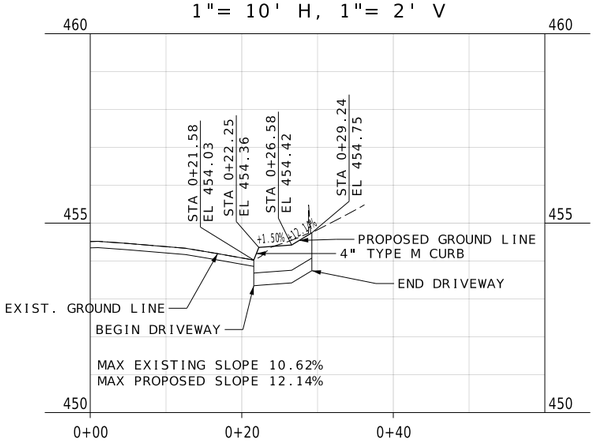
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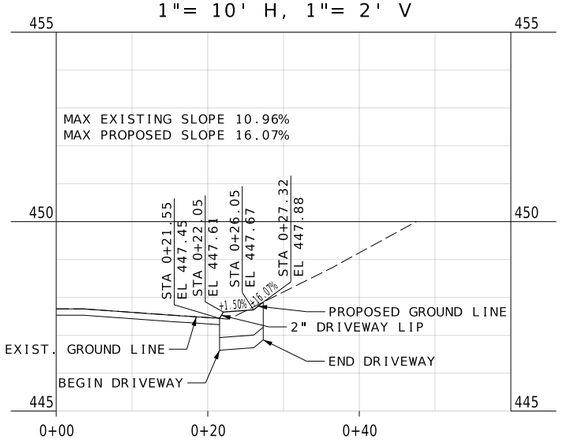
DRIVEWAY PROFILE 179
STA. 152+81.33 (LT) RTE 231
1"= 10' H, 1"= 2' V



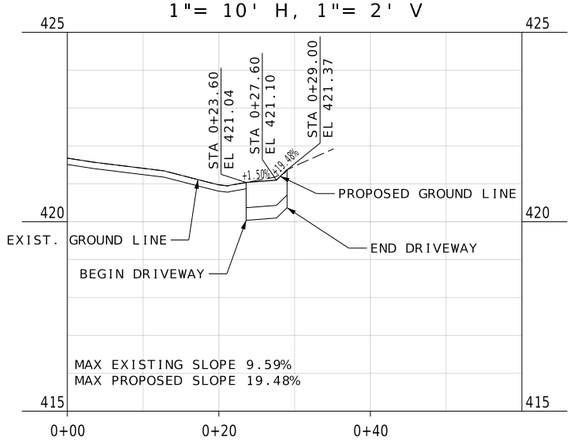
DRIVEWAY PROFILE 180
STA. 156+36.96 (LT) RTE 231
1"= 10' H, 1"= 2' V



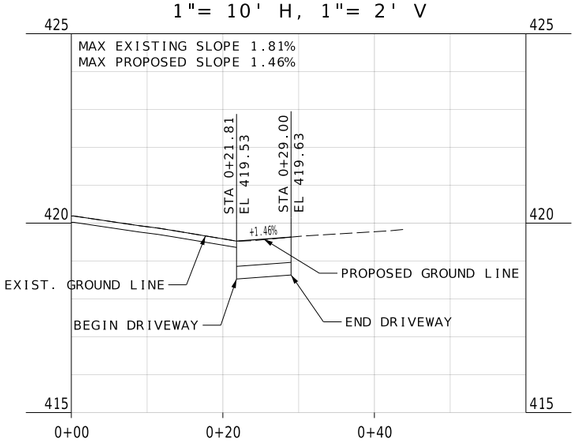
DRIVEWAY PROFILE 181
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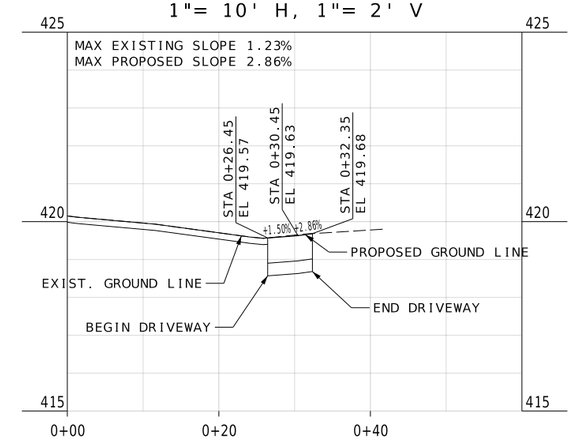
DRIVEWAY PROFILE 182
STA. 164+44.50 (LT) RTE 231
1"= 10' H, 1"= 2' V



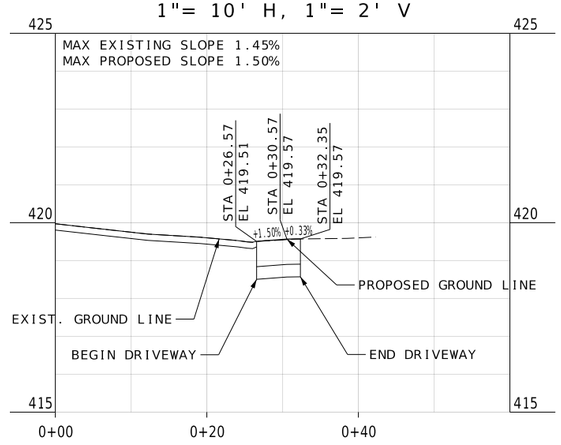
DRIVEWAY PROFILE 183
STA. 165+57.30 (RT) RTE 231
1"= 10' H, 1"= 2' V



DRIVEWAY PROFILE 184
STA. 165+66.55 (LT) RTE 231
1"= 10' H, 1"= 2' V



DRIVEWAY PROFILE 185
STA. 166+27.19 (LT) RTE 231
1"= 10' H, 1"= 2' V



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STATE OF MISSOURI
DENNIS J KOSCIELSKI
NUMBER PE-2005000712
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY

DATE PREPARED: 7/25/2025
ROUTE: 231 | STATE: MO
DISTRICT: SL | SHEET NO.: 131
COUNTY: ST. LOUIS
JOB NO.: J6S3631
CONTRACT ID.:
PROJECT NO.:
BRIDGE NO.:

DESCRIPTION	DATE

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105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

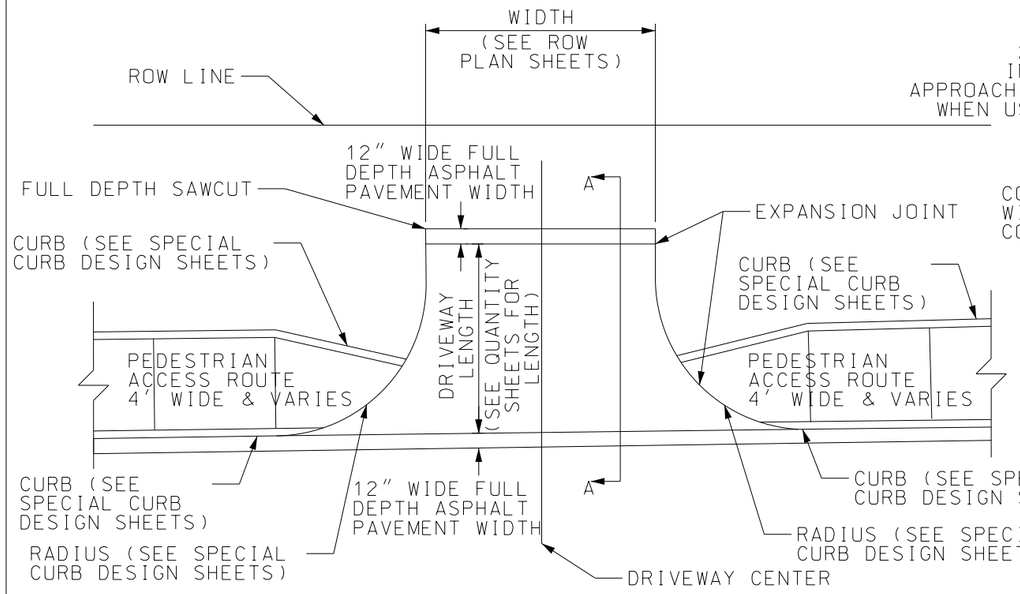
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LAYOUT	NS	01/2025
DRAWN	SMC	01/2025
REVIEWED	DJK	01/2025

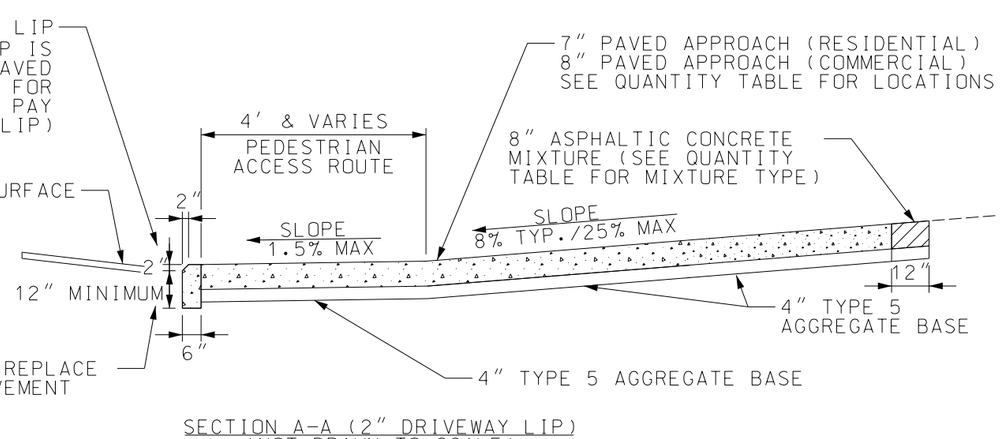
DRIVEWAY
PROFILE SHEETS
SHEET 21 OF 21

I:\22jobs\22H0100\CAD\Road\Sheet\131_DP_21_J6S3631_I10.dgn

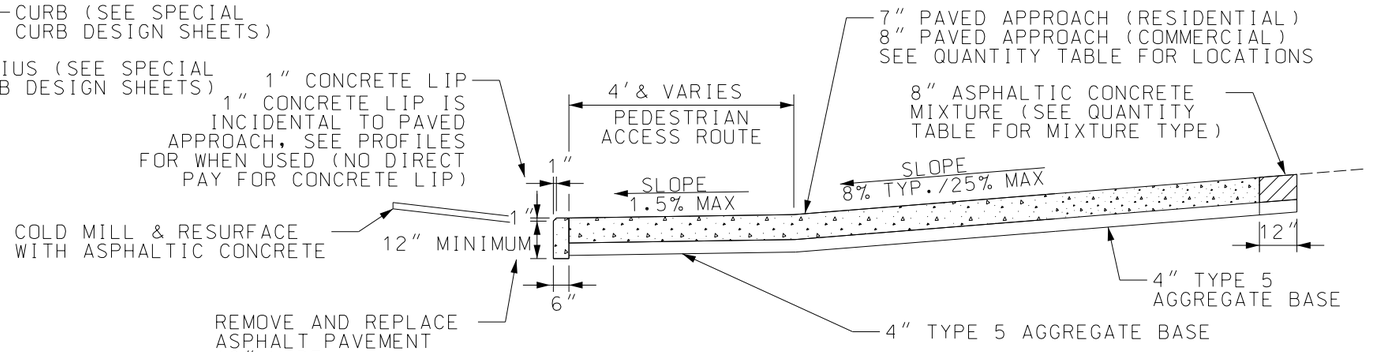


DRIVEWAY NUMBER
(SEE ROW PLAN SHEETS FOR LOCATION)

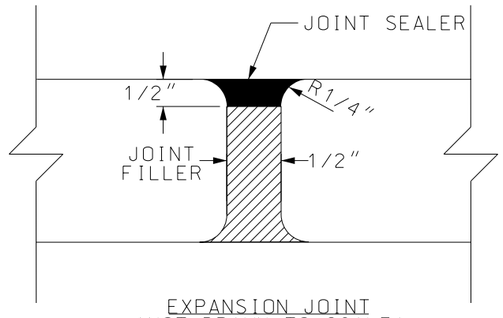
DRIVEWAY PLAN
(NOT DRAWN TO SCALE)



SECTION A-A (2" DRIVEWAY LIP)
(NOT DRAWN TO SCALE)

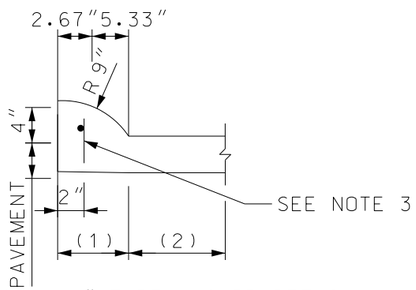


SECTION A-A (1" DRIVEWAY LIP)
(NOT DRAWN TO SCALE)

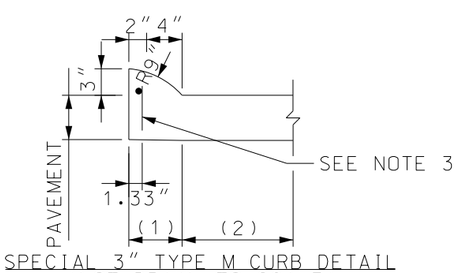


EXPANSION JOINT
(NOT DRAWN TO SCALE)

NOTES:
1. PAY LIMIT FOR PAVEMENT
2. PAY LIMIT FOR CURB, OR CURB & GUTTER.
3. #3 OR #4 Ø EPOXY COATED LONGITUDINAL AND TIE BARS. LONGITUDINAL BAR GAPPED 4" AT JOINTS AND ANY SPLICES LAPPED 8". TIE BARS AT 24" CENTERS AND LENGTH EQUALS THICKNESS OF PAVEMENT PLUS HEIGHT OF CURB MINUS 3". MINIMUM 1" COVER OVER ALL BARS.
4. SIDEWALK CROSS SLOPES THROUGH DRIVEWAY MUST BE LESS THAN 2% MAX CROSS SLOPE TO COMPLY WITH THE AMERICANS WITH DISABILITIES ACT.
5. THE TOP 6" OF DRIVEWAY SUBGRADE SHALL BE COMPACTED TO 95% OF STANDARD MAXIMUM DENSITY.
6. SEE DRIVEWAY PROFILE SHEETS FOR DRIVEWAY LENGTH AND GRADES.
7. CONTRACTION JOINTS SHALL BE SPACED AT 12' MAX. BOTH DIRECTIONS.
8. FORM 2' CONCRETE LIP AT PAVEMENT LINE AS SHOWN.
9. SEE ROW PLAN SHEETS FOR DRIVEWAY SKEW ANGLES AND ROW CENTERLINE TIE IN STATIONS.



SPECIAL 4" TYPE M CURB DETAIL
(NOT DRAWN TO SCALE)
SPECIAL 4" TYPE M CURB IS INCIDENTAL TO PAVED APPROACH, SEE PROFILES FOR WHEN USED (NO DIRECT PAY FOR SPECIAL 4" TYPE M CURB)



SPECIAL 3" TYPE M CURB DETAIL
(NOT DRAWN TO SCALE)
SPECIAL 3" TYPE M CURB IS INCIDENTAL TO PAVED APPROACH, SEE PROFILES FOR WHEN USED (NO DIRECT PAY FOR SPECIAL 3" TYPE M CURB)

LAYOUT	NS	01/2025
DRAWN	SMC	01/2025
REVIEWED	DJK	01/2025

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SPECIAL DRIVEWAY APPROACH SHEET
SHEET 1 OF 1

STATE OF MISSOURI
DENNIS J KOSCIELSKI
NUMBER PE-2005000712
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED 7/25/2025

ROUTE	STATE
231	MO
DISTRICT	SHEET NO.
SL	132

COUNTY ST. LOUIS
JOB NO. J6S3631
CONTRACT ID.
PROJECT NO.
BRIDGE NO.

DESCRIPTION	DATE

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
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UTILITY LEGEND	
SS	STORM SEWER
PT	PASS THROUGH
PD	PASS DOWN
GI	GRATE INLET
CI	CURB INLET
AI	AREA INLET
DCI	DOUBLE CURB INLET
CGCI	COMBINED GRATE/CURB INLET
GT	GRATED TROUGH

NOTE:
1. ALL EXISTING FIBER OPTIC IN THE CORRIDOR IS OWNED AND OPERATED BY OTHER ENTITIES.
2. MSD ONLY ISSUES PERMITS FOR THE PUBLICLY OWNED STRUCTURES SUCH AS SANITARY SEWERS. THE EXISTING AND PROPOSED STORM PIPES & CONNECTIONS ARE OWNED AND MAINTAINED BY MoDOT.

29H510630
2909 TELEGRAPH RD
N/F
EBB PROPERTIES, LLC
DB 22908 PG 542
TELEGRAPH ROAD PHYSICAL THERAPY

29H510872
2923 TELEGRAPH RD
N/F
HOPE VINEYARD CHURCH
DB 20275 PG 1656
HOPE VINEYARD CHURCH

FRANRU LN

29H510894
515 FRANRU LN
N/F
SYLVAN SPRINGS ASSOCIATES, LP
DB 23928 PG 3080
SYLVAN SPRINGS SENIOR APARTMENTS

EXISTING DETENTION BASIN FOR APARTMENT PARCEL (DND)

RTE. 231 / TELEGRAPH RD

29H230442
2878 TELEGRAPH RD
N/F
LJC COMMERCIAL LLC
DB 23714 PG 80
SENTINEL EMERGENCY SOLUTIONS

29H510805
2866 TELEGRAPH RD
N/F
LORCOR LLC
DB 17566 PG 3781
GALAXY VAPORS
SUBWAY
SALON JB
ROSE NAILS & SPA
CAPTAIN Z'S

29H510814
2858 TELEGRAPH RD
N/F
2858 TELEGRAPH LLC
DB 19789 PG 2706

29H510784
2856 TELEGRAPH RD
N/F
LESSER, JAMES & SIMPSON, TABITHA A.
DB 17311 PG 3552

29H510696
2854 TELEGRAPH RD
N/F
PROSSER, CHARLES A. & CYNTHIA D., H/W
DB 23912 PG 1366

MATCHLINE STA. 17+75.00

UTILITY LEGEND	
OE	OVERHEAD UTILITY POWER
UE	BURIED UTILITY POWER
UT	BURIED TELEPHONE CABLE
W	WATER UTILITY
G	GAS UTILITY
S	SANITARY SEWER
SS	STORM SEWER
	COMBINED STORM SANITARY SEWER
FO	FIBER OPTIC
A	WATER MAIN (ABANDONED)
	WATER MAIN (NEW)

PAVEMENT LEGEND	
	PROPOSED SIDEWALK
	COLDMILLING BITUMINOUS PAVEMENT
	FULL DEPTH PAVEMENT, REMOVE AND REPLACE
	DRIVEWAY, REMOVE AND REPLACE
	ADA RAMP

KEYNOTE LEGEND	
1	16" WATER MAIN INSTALLED BY OTHERS (MO AMERICAN WATER)
2	WATER MAIN ABANDONED IN PLACE BY OTHERS (MO AMERICAN WATER)
3	EXISTING WATER MAIN SIZE UNKNOWN (DND)

LAYOUT	CWW	12/2024
DRAWN	SMC	12/2024
REVIEWED	DJK	12/2024

MSD BASEMAP NUMBERS
29H1

MSD PROJECT NUMBER
24-MSD-00480

DRAINAGE PLAN SHEETS
SHEET 1 OF 31

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SCALE
0 20 40 60

STATE OF MISSOURI
DENNIS J KOSCIELSKI
NUMBER PE-2005000712
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED
7/17/2025

ROUTE	STATE
231	MO
DISTRICT	SHEET NO.
SL	133

COUNTY
ST. LOUIS

JOB NO.
J6S3631

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DATE	DESCRIPTION

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

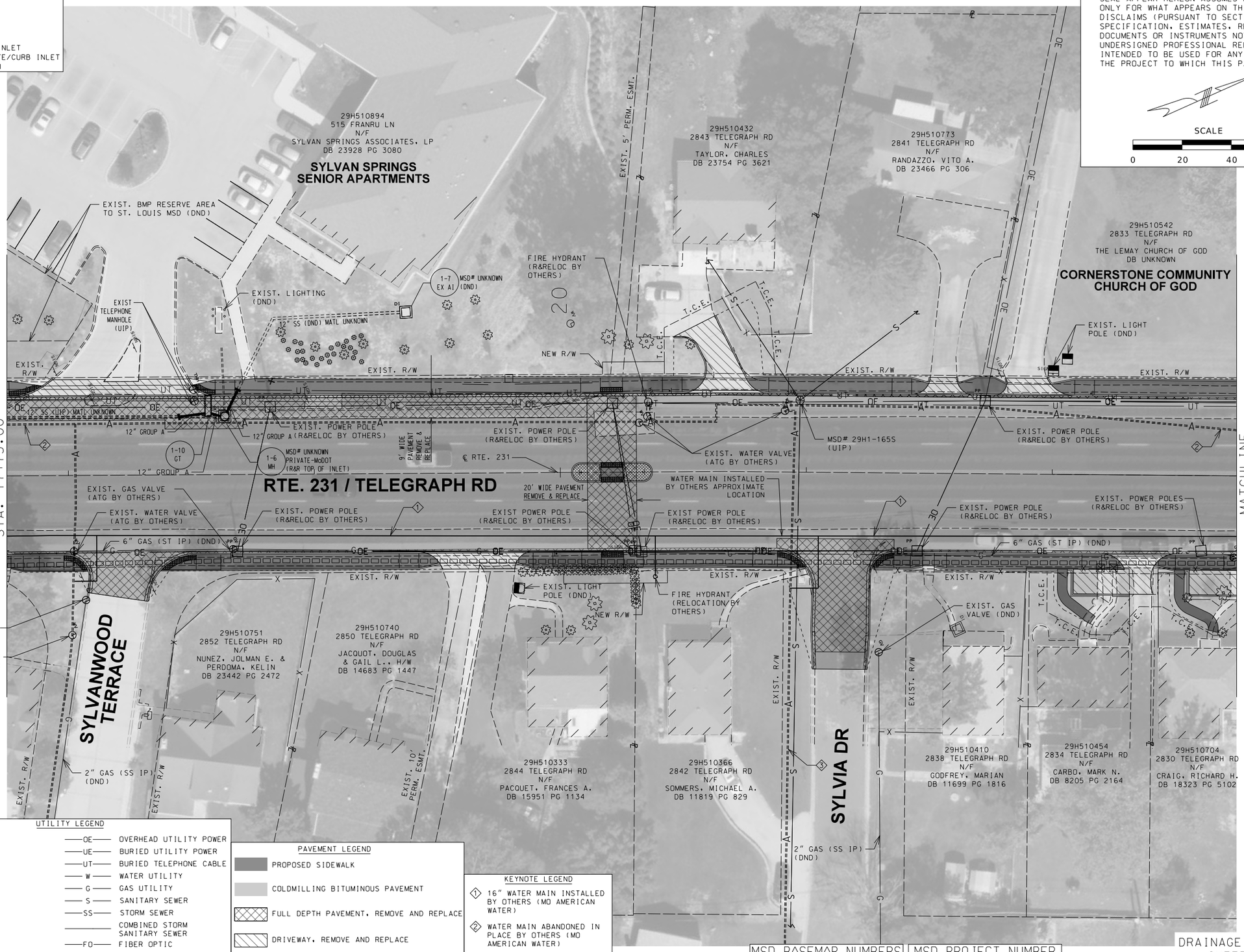
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Professional Engineer 001632
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UTILITY LEGEND	
SS	STORM SEWER
PT	PASS THROUGH
PD	PASS DOWN
GI	GRATE INLET
CI	CURB INLET
AI	AREA INLET
DCI	DOUBLE CURB INLET
CGCI	COMBINED GRATE/CURB INLET
GT	GRATED TROUGH

NOTE:
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SCALE
0 20 40 60

STATE OF MISSOURI
DENNIS KOSCIELSKI
NUMBER PE-2005000712
PROFESSIONAL ENGINEER

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DATE PREPARED
7/17/2025

ROUTE	STATE
231	MO
DISTRICT	SHEET NO.
SL	134

COUNTY
ST. LOUIS

JOB NO.
J6S3631

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

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LAYOUT	CWW	12/2024
DRAWN	SMC	12/2024
REVIEWED	DJK	12/2024

UTILITY LEGEND

OE	OVERHEAD UTILITY POWER
UE	BURIED UTILITY POWER
UT	BURIED TELEPHONE CABLE
W	WATER UTILITY
G	GAS UTILITY
S	SANITARY SEWER
SS	STORM SEWER
	COMBINED STORM SANITARY SEWER
FO	FIBER OPTIC
A	WATER MAIN (ABANDONED)
	WATER MAIN (NEW)

PAVEMENT LEGEND

	PROPOSED SIDEWALK
	COLDMILLING BITUMINOUS PAVEMENT
	FULL DEPTH PAVEMENT, REMOVE AND REPLACE
	DRIVEWAY, REMOVE AND REPLACE
	ADA RAMP

KEYNOTE LEGEND

1	16" WATER MAIN INSTALLED BY OTHERS (MO AMERICAN WATER)
2	WATER MAIN ABANDONED IN PLACE BY OTHERS (MO AMERICAN WATER)
3	EXISTING WATER MAIN SIZE UNKNOWN (DND)

MSD BASEMAP NUMBERS
29H1

MSD PROJECT NUMBER
24-MSD-00480

DRAINAGE PLAN SHEETS
SHEET 2 OF 31

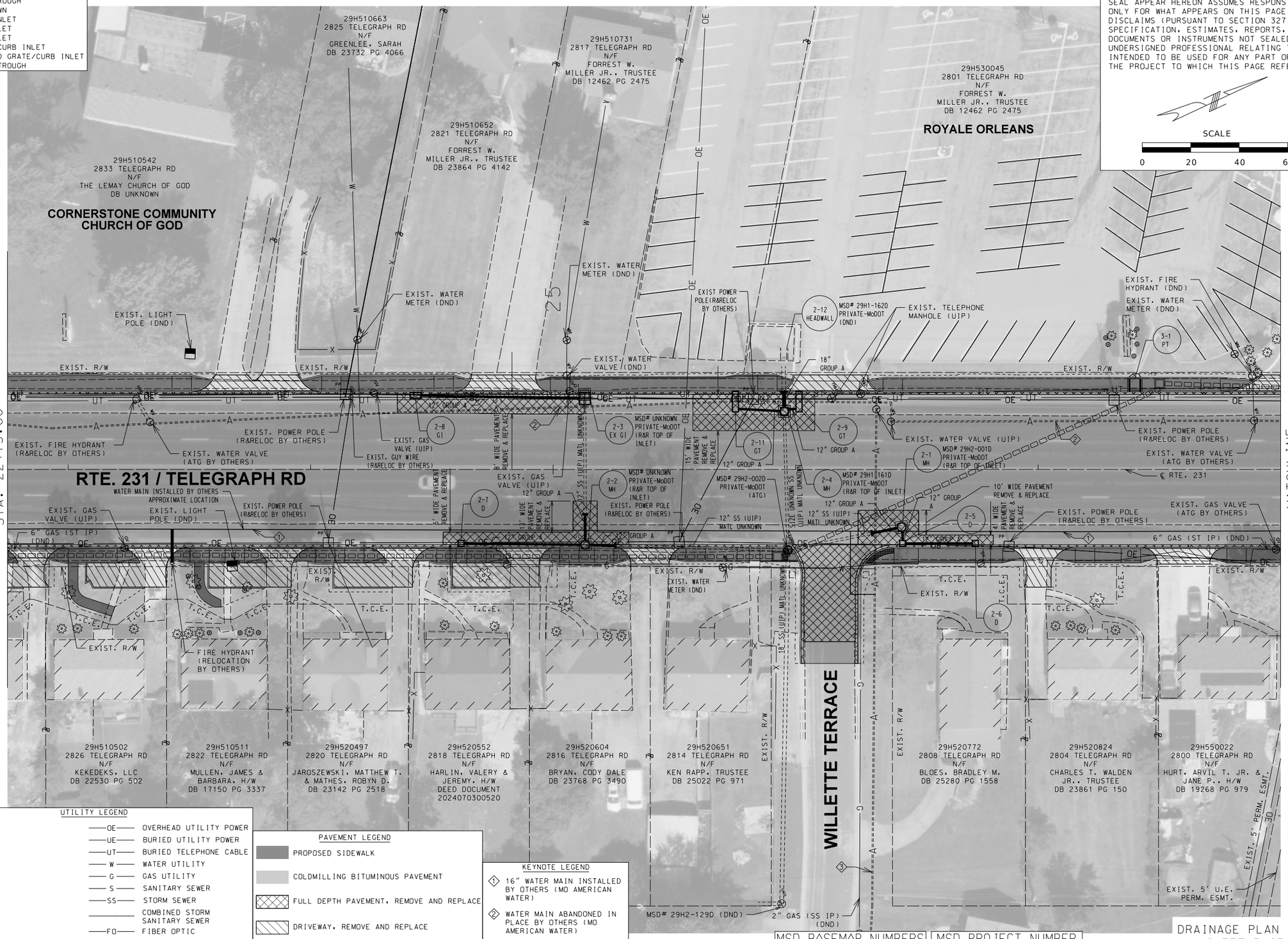
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UTILITY LEGEND	
SS	STORM SEWER
PT	PASS THROUGH
PD	PASS DOWN
GI	GRATE INLET
CI	CURB INLET
AI	AREA INLET
DCI	DOUBLE CURB INLET
CGCI	COMBINED GRATE/CURB INLET
GT	GRATED TROUGH

NOTE:
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SCALE
0 20 40 60



UTILITY LEGEND	
OE	OVERHEAD UTILITY POWER
UE	BURIED UTILITY POWER
UT	BURIED TELEPHONE CABLE
W	WATER UTILITY
G	GAS UTILITY
S	SANITARY SEWER
SS	STORM SEWER
	COMBINED STORM SANITARY SEWER
FO	FIBER OPTIC
A	WATER MAIN (ABANDONED)
	WATER MAIN (NEW)

PAVEMENT LEGEND
PROPOSED SIDEWALK
COLDMILLING BITUMINOUS PAVEMENT
FULL DEPTH PAVEMENT, REMOVE AND REPLACE
DRIVEWAY, REMOVE AND REPLACE
ADA RAMP

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LAYOUT	CWW	12/2024
DRAWN	SMC	12/2024
REVIEWED	DJK	12/2024

MSD BASEMAP NUMBERS
29H1

MSD PROJECT NUMBER
24-MSD-00480

DRAINAGE PLAN SHEETS
SHEET 3 OF 31

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STATE OF MISSOURI
DENNIS J KOSCIELSKI
NUMBER PE-2005000712
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED
7/17/2025

ROUTE	STATE
231	MO
DISTRICT	SHEET NO.
SL	135

COUNTY
ST. LOUIS

JOB NO.
J6S3631

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION	DATE

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UTILITY LEGEND	
SS	STORM SEWER
PT	PASS THROUGH
PD	PASS DOWN
GI	GRATE INLET
CI	CURB INLET
AI	AREA INLET
DCI	DOUBLE CURB INLET
CGCI	COMBINED GRATE/CURB INLET
GT	GRATED TROUGH

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SCALE
0 20 40 60

29H530045
2801 TELEGRAPH RD
N/F
FORREST W.
MILLER JR., TRUSTEE
DB 12462 PG 2475
ROYALE ORLEANS

29H541353
2765 TELEGRAPH RD
N/F
ST. LUKE'S UNITED METHODIST
CHURCH OF ST. LOUIS
DB 8446 PG 1343
ST. LUKE'S PRE-SCHOOL

29H541364
2753 TELEGRAPH RD
N/F
ST. LUKE'S UNITED METHODIST
CHURCH OF ST. LOUIS
DB 8446 PG 1364
ST. LUKE'S UNITED METHODIST CHURCH

RTE. 231 / TELEGRAPH RD

MATCHLINE
STA. 28+00.00

MATCHLINE
STA. 33+00.00

BRILLIANT LN

29H541331
192 BRILLIANT LN
N/F
LECHNER FAMILY
GROUP LLC
DB 23471 PG 94

29H541067
2758 TELEGRAPH RD
N/F
SCHWER, RICKY &
TAMARA, H/W
DB 23614 PG 833

29H540220
2752 TELEGRAPH RD
N/F
SCHWER, RICK A. &
TAMARA D., H/W
DB 16162 PG 2082

EXIST. POWER POLE (DND)
EXIST. POWER POLE (R&RELOC BY OTHERS)
EXIST. LIGHT POLE (DND)
EXIST. WATER METER (DND)
EXIST. WATER VALVE (DND)
EXIST. WATER VALVE (ATG BY OTHERS)
EXIST. WATER VALVE (UIP)
EXIST. GAS VALVE (UIP)
EXIST. POWER POLE (R&RELOC BY OTHERS)
EXIST. TELEPHONE MANHOLE (ATG BY OTHERS)
MSD# 29H2-003S (ATG)
MSD# 29H2-002S (ATG)
MSD# 29H2-208D PRIVATE-McDOT (DND)
MSD# 29H2-209D PRIVATE-McDOT (R&R TOP OF INLET)
10-1 MH
10-5 GT
WATER MAIN INSTALLED BY OTHERS APPROXIMATE LOCATION
6" GAS (ST IP) (DND)
2" GAS (SS IP) (DND)
FIRE HYDRANT (RELOCATION BY OTHERS)
24' WIDE PAVEMENT REMOVE & REPLACE
12" GROUP A
EXIST. 5' PERM. U.E. ESMT.
EXIST. 7.5' PERM. U.E. ESMT.
EXIST. 10' PERM. DRAINAGE ESMT.
EXIST. 10' PERM. 10' MSD ESMT.
EXIST. R/W
T.C.E.
OE
UE
UT
G
S
W
SS (UTILITY MATL UNKNOWN)

UTILITY LEGEND
- OE — OVERHEAD UTILITY POWER
- UE — BURIED UTILITY POWER
- UT — BURIED TELEPHONE CABLE
- W — WATER UTILITY
- G — GAS UTILITY
- S — SANITARY SEWER
- SS — STORM SEWER
- COMBINED STORM SANITARY SEWER
- FO — FIBER OPTIC
- A — WATER MAIN (ABANDONED)
- WATER MAIN (NEW)

PAVEMENT LEGEND
- PROPOSED SIDEWALK
- COLDMILLING BITUMINOUS PAVEMENT
- FULL DEPTH PAVEMENT, REMOVE AND REPLACE
- DRIVEWAY, REMOVE AND REPLACE
- ADA RAMP

KEYNOTE LEGEND
1. 16" WATER MAIN INSTALLED BY OTHERS (MO AMERICAN WATER)
2. WATER MAIN ABANDONED IN PLACE BY OTHERS (MO AMERICAN WATER)
3. EXISTING WATER MAIN SIZE UNKNOWN (DND)

LAYOUT	CWW	12/2024
DRAWN	SMC	12/2024
REVIEWED	DJK	12/2024

MSD BASEMAP NUMBERS
29H1

MSD PROJECT NUMBER
24-MSD-00480

DRAINAGE PLAN SHEETS
SHEET 4 OF 31

STATE OF MISSOURI
DENNIS J KOSCIELSKI
NUMBER PE-2005000712
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED
7/17/2025

ROUTE	STATE
231	MO
DISTRICT	SHEET NO.
SL	136

COUNTY
ST. LOUIS

JOB NO.
J6S3631

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION	DATE

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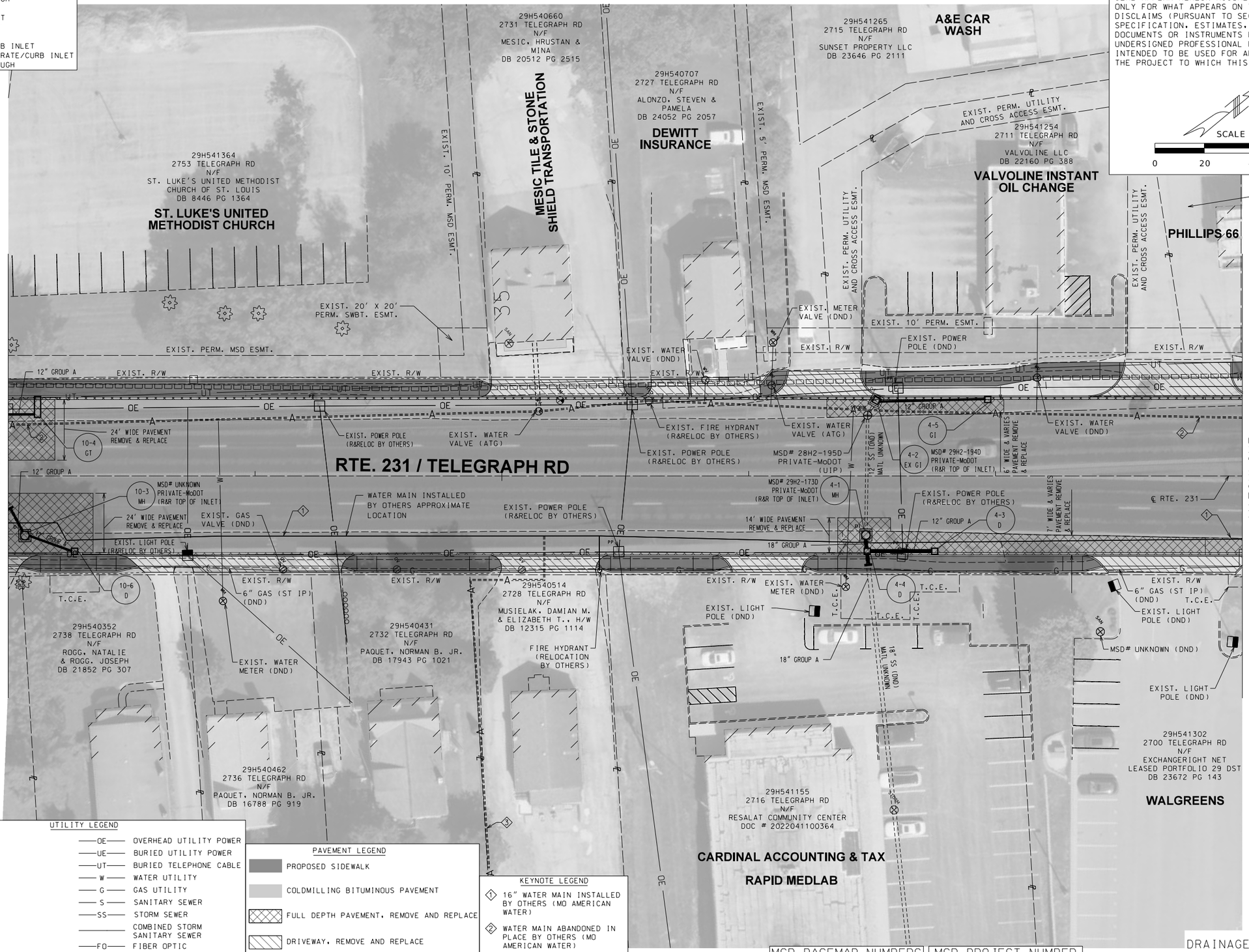
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JEFFERSON CITY, MO 65102
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UTILITY LEGEND	
SS	STORM SEWER
PT	PASS THROUGH
PD	PASS DOWN
GI	GRATE INLET
CI	CURB INLET
AI	AREA INLET
DCI	DOUBLE CURB INLET
CGCI	COMBINED GRATE/CURB INLET
GT	GRATED TROUGH

NOTE:
ALL EXISTING FIBER OPTIC IN THE CORRIDOR IS OWNED AND OPERATED BY OTHER ENTITIES.



UTILITY LEGEND	
OE	OVERHEAD UTILITY POWER
UE	BURIED UTILITY POWER
UT	BURIED TELEPHONE CABLE
W	WATER UTILITY
G	GAS UTILITY
S	SANITARY SEWER
SS	STORM SEWER
	COMBINED STORM SANITARY SEWER
FO	FIBER OPTIC
A	WATER MAIN (ABANDONED)
	WATER MAIN (NEW)

PAVEMENT LEGEND	
	PROPOSED SIDEWALK
	COLDMILLING BITUMINOUS PAVEMENT
	FULL DEPTH PAVEMENT, REMOVE AND REPLACE
	DRIVEWAY, REMOVE AND REPLACE
	ADA RAMP

KEYNOTE LEGEND	
1	16" WATER MAIN INSTALLED BY OTHERS (MO AMERICAN WATER)
2	WATER MAIN ABANDONED IN PLACE BY OTHERS (MO AMERICAN WATER)
3	EXISTING WATER MAIN SIZE UNKNOWN (DND)

LAYOUT	CWW	12/2024
DRAWN	SMC	12/2024
REVIEWED	DJK	12/2024

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STATE OF MISSOURI
DENNIS J KOSCIELSKI
NUMBER PE-2005000712
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED	
7/17/2025	
ROUTE	STATE
231	MO
DISTRICT	SHEET NO.
SL	137

COUNTY
ST. LOUIS

JOB NO.
J6S3631

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DATE	DESCRIPTION

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MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
MoDOT
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

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MSD BASEMAP NUMBERS
29H1

MSD PROJECT NUMBER
24-MSD-00480

DRAINAGE PLAN SHEETS
SHEET 5 OF 31

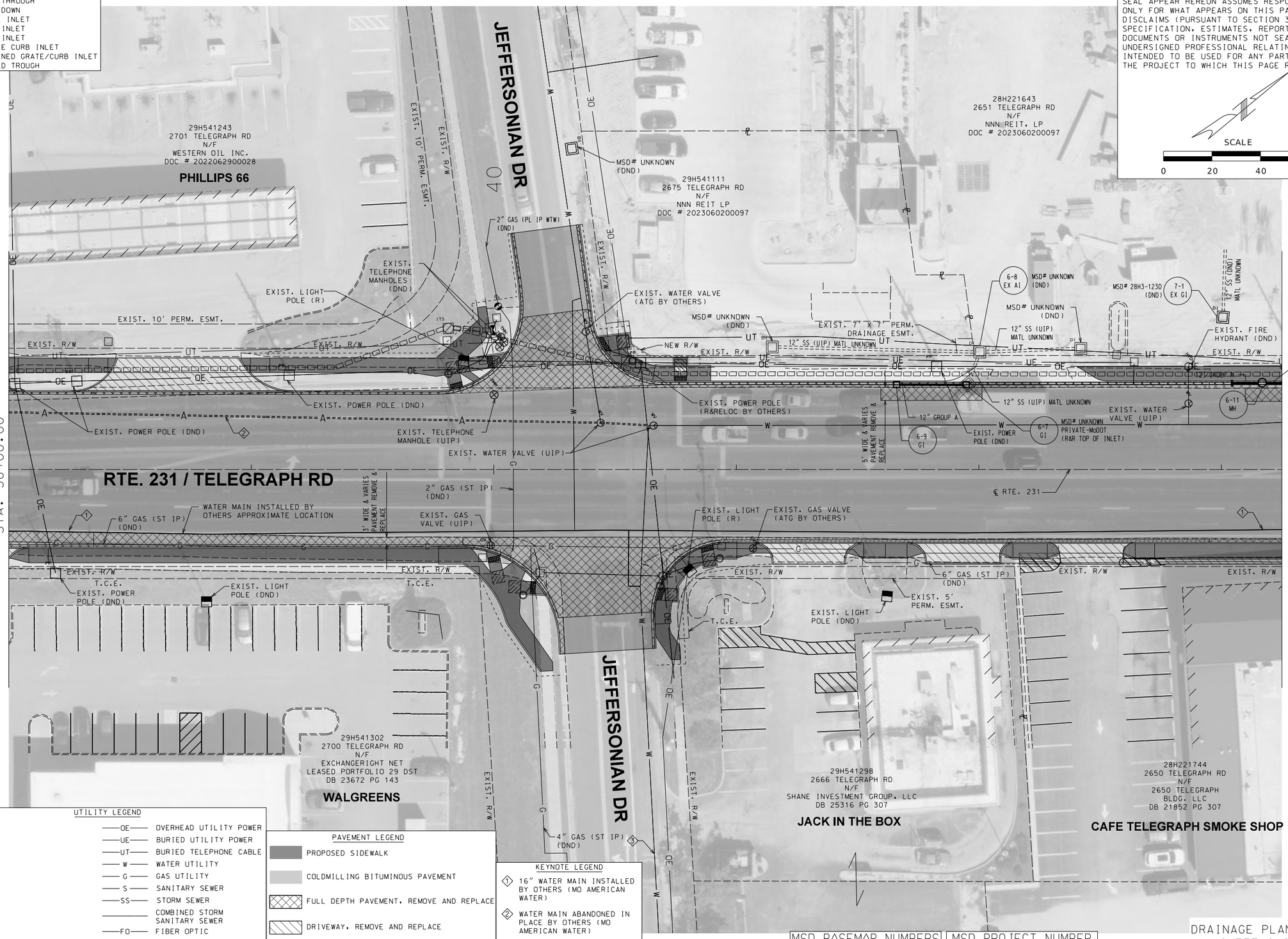
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UTILITY LEGEND	
SS	STORM SEWER
PT	PASS THROUGH
PD	PASS DOWN
GI	GRATE INLET
CI	CURB INLET
AI	AREA INLET
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UTILITY LEGEND	
OE	OVERHEAD UTILITY POWER
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UT	BURIED TELEPHONE CABLE
W	WATER UTILITY
G	GAS UTILITY
S	SANITARY SEWER
SS	STORM SEWER
	COMBINED STORM SANITARY SEWER
FO	FIBER OPTIC
A	WATER MAIN (ABANDONED)
	WATER MAIN (NEW)

PAVEMENT LEGEND	
	PROPOSED SIDEWALK
	COLDMILLING BITUMINOUS PAVEMENT
	FULL DEPTH PAVEMENT, REMOVE AND REPLACE
	DRIVEWAY, REMOVE AND REPLACE
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DRAWN	SMC	12/2024
REVIEWED	DJK	12/2024

MSD BASEMAP NUMBERS: 29H1
MSD PROJECT NUMBER: 24-MSD-00480

DRAINAGE PLAN SHEETS
SHEET 6 OF 31

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DATE PREPARED	
7/17/2025	
ROUTE	STATE
231	MO
DISTRICT	SHEET NO.
SL	138
COUNTY	
ST. LOUIS	
JOB NO.	
J6S3631	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

DESCRIPTION	DATE

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SCALE
0 20 40 60

28H221652
2641 TELEGRAPH RD
N/F
GVL PROPERTIES LLC
DB 24350 PG 4369
GVL PLUMBING
CHARLES H. FIKE, LLC TAX & ACCOUNTING SERVICES

28H221616
2635 TELEGRAPH RD
N/F
S & P LAND TRUST
DB 21540 PG 2117

28H220273
2631 TELEGRAPH RD
N/F
BRADY, DEANNA D.
DB 20605 PG 294

28H221625
2625 TELEGRAPH RD
N/F
RVB & ASSOCIATES LLC
DB 10662 PG 2490
FRATERNAL ORDER OF EAGLES

28H221634
2619 TELEGRAPH RD
N/F
RVB & ASSOCIATES LLC
DB 12419 PG 212
LOYALTY CONSTRUCTION RESTORATION LLC

28H221692
2611 TELEGRAPH RD
N/F
AMER LLC
DB 18690 PG 2417
INDOOR COMFORT TEAM

28H221744
2650 TELEGRAPH RD
N/F
2650 TELEGRAPH BLDG. LLC
DB 21852 PG 307
CAFE TELEGRAPH SMOKE SHOP

28H220122
2612 TELEGRAPH RD
N/F
EXCELDA DEVELOPMENT COMPANY
DB 5488 PG 13
CASH AMERICA PAWN
MIMI NAIL PRO

SUNCE EUROPA BAKERY & GROCERY
SHEETS LAUNDROMAT
THE CROW BAR & DELI

TELEGRAPH RD
RTE. 231 / TELEGRAPH RD
BETTY JEAN LN
LAREDO AVE

MATCHLINE STA. 43+25.00
MATCHLINE STA. 48+35.00

EXIST. POWER POLE (DND)
EXIST. LIGHT POLE (DND)
EXIST. FIBER OPTIC HANDHOLE (DND)
EXIST. WATER METER (DND)
EXIST. R/W
EXIST. WATER VALVE (DND)
EXIST. GAS VALVE (DND)
EXIST. WATER VALVE (UIP)
EXIST. STORM SEWER (DND)
EXIST. GUY POLE (DND)
EXIST. TELEPHONE MANHOLE (DND)
EXIST. TELEPHONE RISER (DND)
EXIST. TELEPHONE MANHOLE (UIP)
EXIST. PERM. DRAINAGE ESMT.
EXIST. 2 IN. FIBER OPTIC CONDUIT (DND)
EXIST. WATER VALVE (ATG BY OTHERS)
EXIST. FIRE HYDRANT (DND)
PERM. ESMT.
WATER MAIN INSTALLED BY OTHERS APPROXIMATE LOCATION

12" GROUP A
15" GROUP A
18" GROUP A
12" SS (UIP) MATL UNKNOWN
15" SS (UIP) MATL UNKNOWN
18" SS (UIP) MATL UNKNOWN
15" SS (DND) MATL UNKNOWN
18" SS (DND) MATL UNKNOWN
6" GAS (ST IP) (DND)
2" GAS (ST IP) (DND)

6-16 EX GI — MSD# 28H3-115 PRIVATE-MoDOT (UIP)
6-10 GI — 12" GROUP A
6-6 EX GI — MSD# UNKNOWN PRIVATE-MoDOT (R&R TOP OF INLET)
6-5 EX GI — MSD# 28H3-120D PRIVATE-MoDOT (R&R TOP OF INLET)
6-4 EX GI — MSD# 28H3-119D PRIVATE-MoDOT (UIP)
6-12 GI
6-3 EX GI — MSD# 28H3-121D PRIVATE-MoDOT (R&R TOP OF INLET)
6-2 EX GI — MSD# 28H3-116D PRIVATE-MoDOT (DND)
6-1 MH — MSD# UNKNOWN PRIVATE-MoDOT (R&R TOP OF INLET)

6' WIDE PAVEMENT REMOVE & REPLACE
5' WIDE PAVEMENT REMOVE & REPLACE
7' WIDE PAVEMENT REMOVE & REPLACE
20' WIDE PAVEMENT REMOVE & REPLACE

UTILITY LEGEND
- OE — OVERHEAD UTILITY POWER
- UE — BURIED UTILITY POWER
- UT — BURIED TELEPHONE CABLE
- W — WATER UTILITY
- G — GAS UTILITY
- S — SANITARY SEWER
- SS — STORM SEWER
- COMBINED STORM SANITARY SEWER
- FO — FIBER OPTIC
- WATER MAIN (ABANDONED)
- WATER MAIN (NEW)

PAVEMENT LEGEND
- PROPOSED SIDEWALK
- COLDMILLING BITUMINOUS PAVEMENT
- FULL DEPTH PAVEMENT, REMOVE AND REPLACE
- DRIVEWAY, REMOVE AND REPLACE
- ADA RAMP

KEYNOTE LEGEND
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REVIEWED	DJK	12/2024

MSD BASEMAP NUMBERS: 29H1
MSD PROJECT NUMBER: 24-MSD-00480

DRAINAGE PLAN SHEETS
SHEET 7 OF 31

I:\22jobs\22H0100\CAD\Road\Sheet\139_DS_07_J6S3631_I20.dgn

STATE OF MISSOURI
DENNIS J KOSCIELSKI
NUMBER PE-2005000712
PROFESSIONAL ENGINEER

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DATE PREPARED	
7/17/2025	
ROUTE	STATE
231	MO
DISTRICT	SHEET NO.
SL	139
COUNTY	
ST. LOUIS	
JOB NO.	
J6S3631	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

DESCRIPTION	DATE

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UTILITY LEGEND	
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PD	PASS DOWN
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GT	GRATED TROUGH

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SCALE
0 20 40 60

PI 52+10.65
PC 48+63.09
PT 55+29.75
Δ 40°0'0.1" (RT)
D 6°0'0.0"
L 666.67'(ARC)
T 347.57'
R 954.93'

TELEGRAPH RD
SIGSBEE AVE
ATLAS DR
RTE. 231 / KINGSTON DR
ROYALS LIQUOR
28H311908 2568 TELEGRAPH RD N/F VINAYAKA, LLC DB 24398 PG 2464
28H311771 605 KINGSTON DR N/F DREPPARD, DAWN DB 22560 PG 2718
28H310945 601 KINGSTON DR N/F OSBORN, SHAUN DB 19474 PG 1383
28H310826 609 KINGSTON DR N/F WATSON, GWENNITA M. DB 24772 PG 5535
28H310963 549 KINGSTON DR N/F PAWLOWSKI, LESLIE & TIMOTHY, W/H DB 18680 PG 1209
28H311881 149 LAREDO AVE N/F LAREDO PROPERTIES, LLC DB 17466 PG 2461
28H310541 624 KINGSTON DR N/F SCHWARTZMEYER, MILTON R. & PATRICIA L. DB 12262 PG 2107
28H310583 620 KINGSTON DR N/F HASANOVIC, SENADA DB 20016 PG 3873
28H310725 155 SIGSBEE AVE N/F CALDWELL, ASHLEY N. DB 18901 PG 468
28H310682 151 SIGSBEE AVE N/F FOREST, DAVID DB 25058 PG 274
28H310752 542 KINGSTON DR N/F NILSON, MARILYN A. DB 12494 PG 1434

EXIST. 2 IN. FIBER OPTIC CONDUIT (DND)
EXIST. GAS METER (DND)
EXIST. GAS DRIP PIPE (DND)
EXIST. WATER METER (DND)
EXIST. R/W
EXIST. R/W PERM. ESMT.
EXIST. POWER POLE (DND)
EXIST. WATER METER (DND)
EXIST. 5' PERM. ESMT. FOR UTILITIES AND SEWERS
6-15 CI
MSD# 28H3-114D PRIVATE-MODOT (DND)
2" GAS (SS IP) (DND)
2" GAS (ST IP) (DND)
EXIST. GAS VALVE (ATG BY OTHERS)
MODOT ITS (R)
MSD# 28H3-0277S (ATG)
EXIST. WATER VALVE (ATG BY OTHERS)
MSD# 28H3-0276S (ATG)
EXIST. GAS VALVE (ATG BY OTHERS)
6-14 CI
8" WIDE PAVEMENT REMOVE & REPLACE
8" GAS (ST IP) (DND)
EXIST. POWER POLE (R&RELOC BY OTHERS)
EXIST GUY WIRE (R&RELOC BY OTHERS)
EXIST. GAS VALVE (DND)
℄ RTE. 231
EXIST. POWER POLE (DND)
EXIST. 5' PERM. ESMT.
MSD# 28H3-254S (DND)
EXIST. 5' PERM. ESMT.
T.C.E.
MATCHLINE STA. 48+35.00
MATCHLINE STA. 53+50.00

UTILITY LEGEND
OE OVERHEAD UTILITY POWER
UE BURIED UTILITY POWER
UT BURIED TELEPHONE CABLE
W WATER UTILITY
G GAS UTILITY
S SANITARY SEWER
SS STORM SEWER
COMBINED STORM SANITARY SEWER
FO FIBER OPTIC
A WATER MAIN (ABANDONED)
WATER MAIN (NEW)

PAVEMENT LEGEND
PROPOSED SIDEWALK
COLDMILLING BITUMINOUS PAVEMENT
FULL DEPTH PAVEMENT, REMOVE AND REPLACE
DRIVEWAY, REMOVE AND REPLACE
ADA RAMP

LAYOUT	CWW	12/2024
DRAWN	SMC	12/2024
REVIEWED	DJK	12/2024

MSD BASEMAP NUMBERS
29H1

MSD PROJECT NUMBER
24-MSD-00480

DRAINAGE PLAN SHEETS
SHEET 8 OF 31

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STATE OF MISSOURI
DENNIS J KOSCIELSKI
NUMBER PE-2005000712
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED
7/17/2025

ROUTE	STATE
231	MO
DISTRICT	SHEET NO.
SL	140

COUNTY
ST. LOUIS

JOB NO.
J6S3631

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION	DATE

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

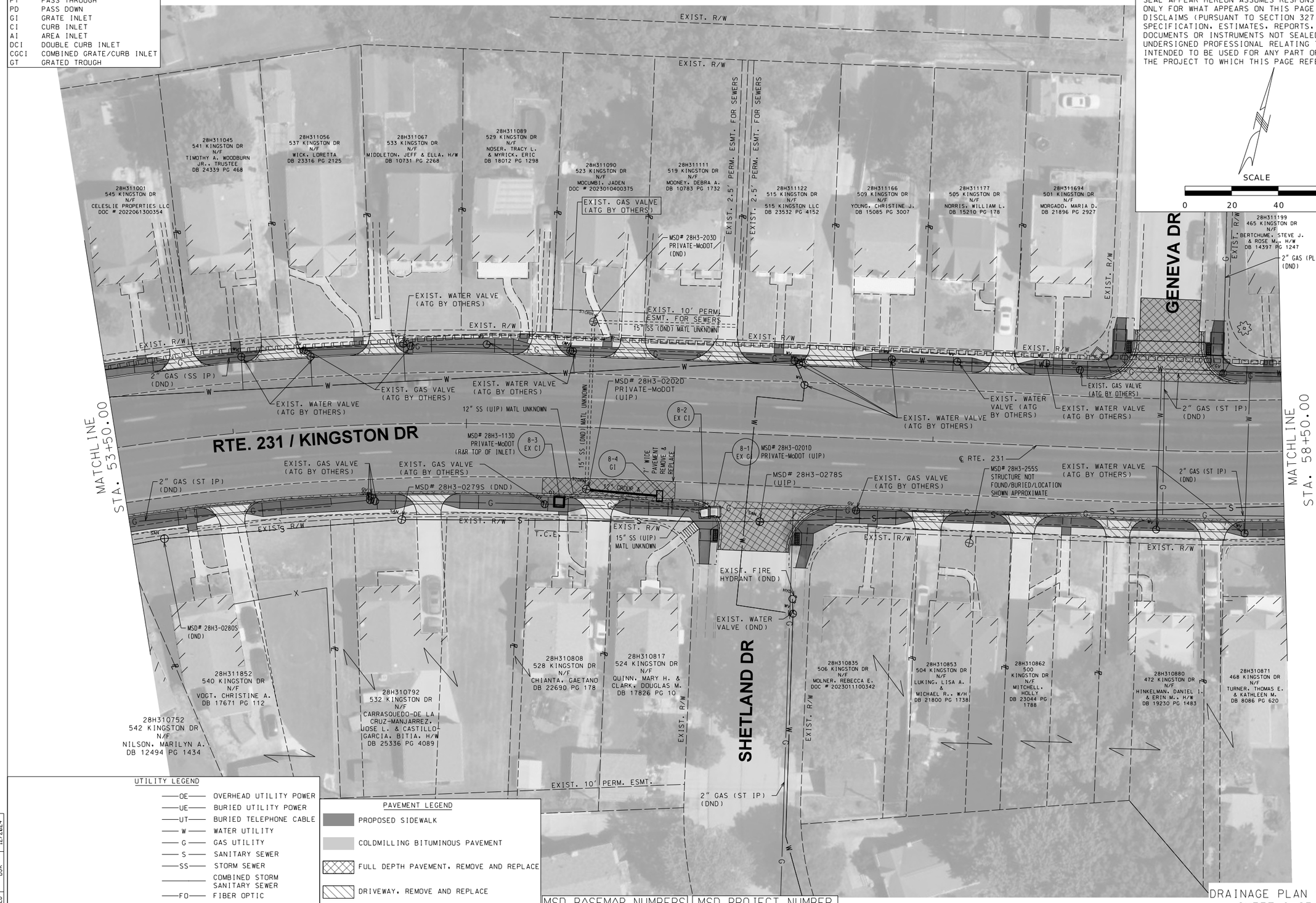
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LAYOUT	CWW	12/2024
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MSD PROJECT NUMBER
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DRAINAGE PLAN SHEETS
SHEET 9 OF 31

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231	MO
DISTRICT	SHEET NO.
SL	141

COUNTY
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J6S3631

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PROJECT NO.

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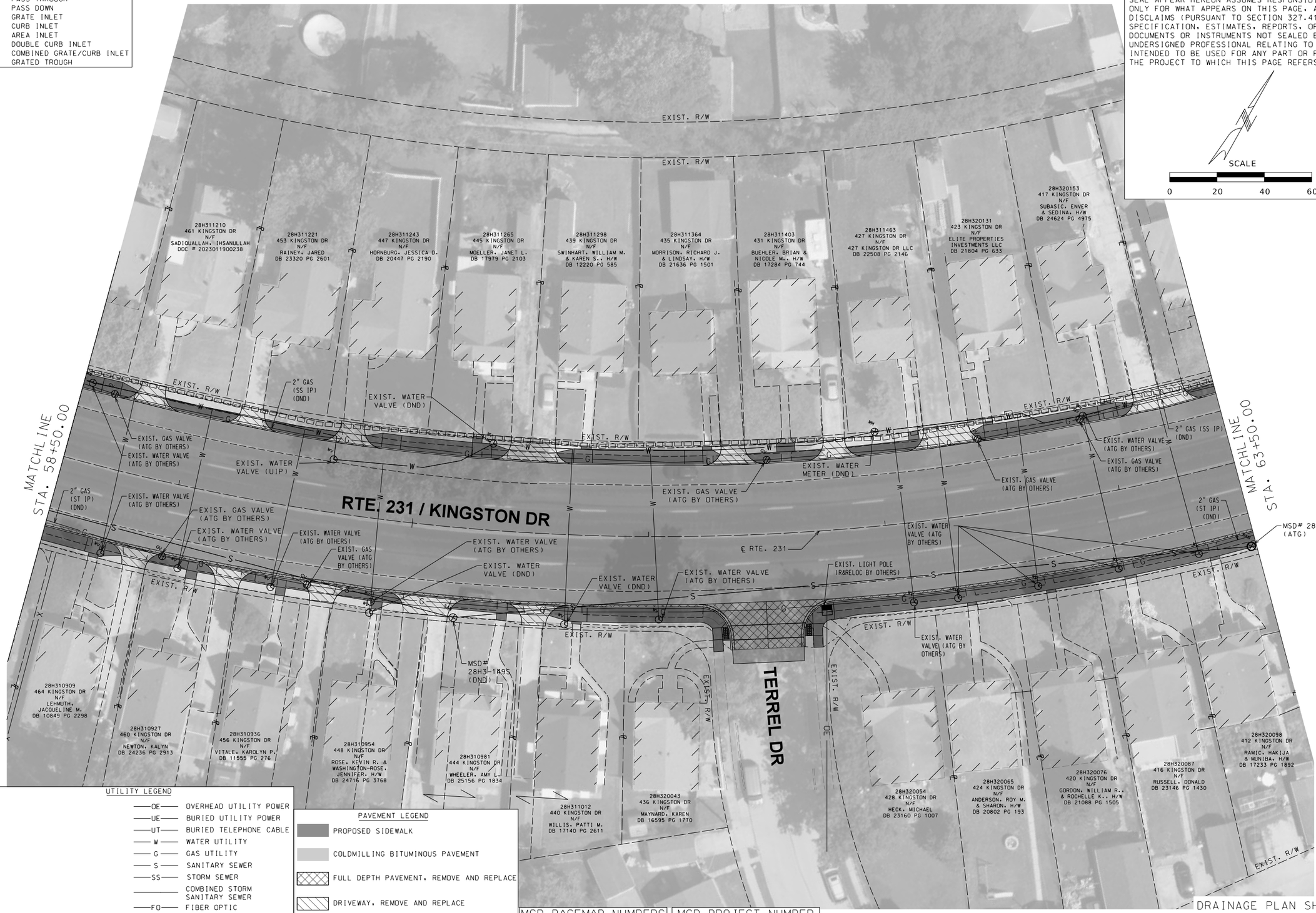
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A	WATER MAIN (ABANDONED)
	WATER MAIN (NEW)

PAVEMENT LEGEND
PROPOSED SIDEWALK
COLDMILLING BITUMINOUS PAVEMENT
FULL DEPTH PAVEMENT, REMOVE AND REPLACE
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MSD PROJECT NUMBER
24-MSD-00480

DRAINAGE PLAN SHEETS
SHEET 10 OF 31

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231	MO
DISTRICT	SHEET NO.
SL	142

COUNTY
ST. LOUIS

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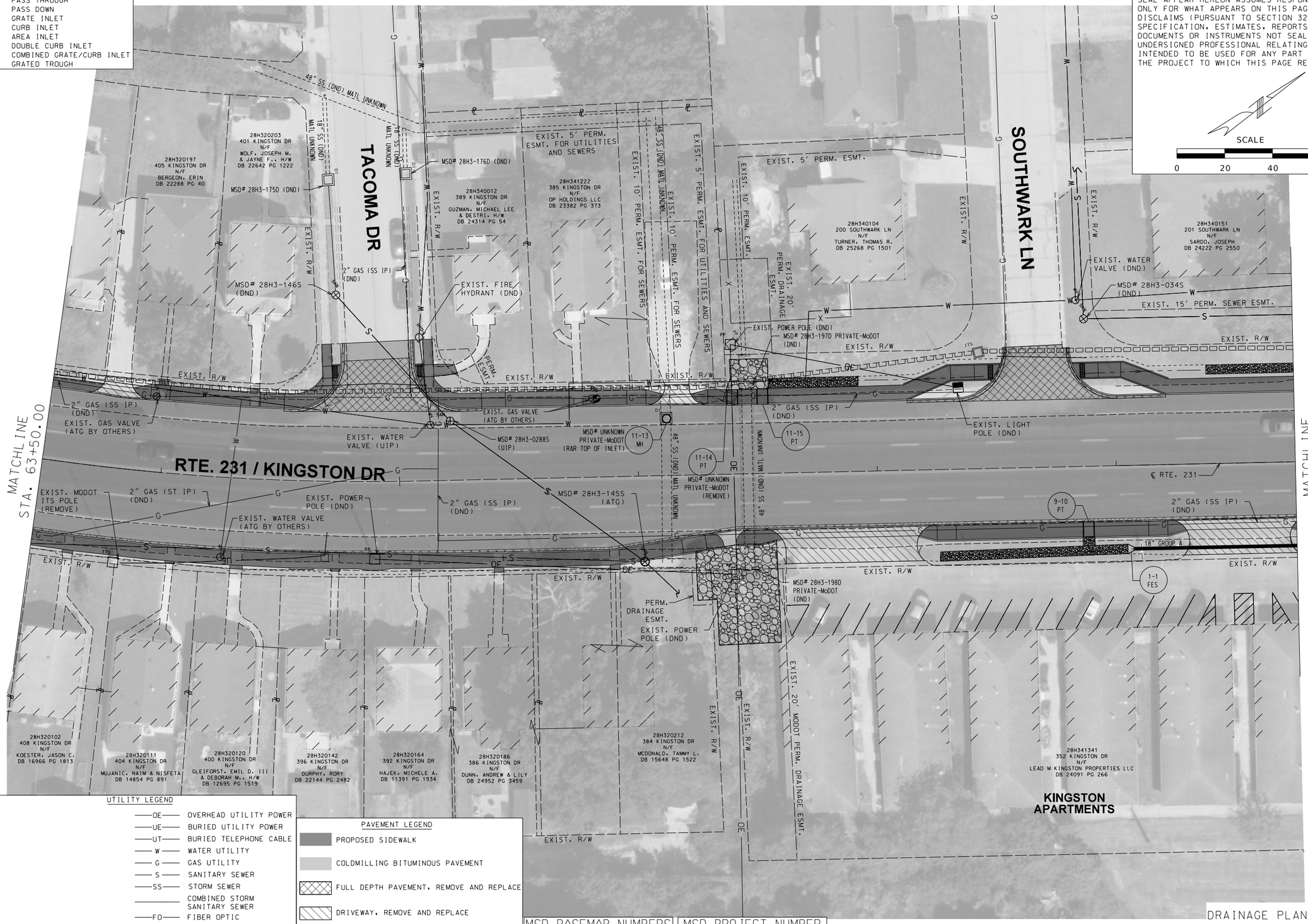
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PT	PASS THROUGH
PD	PASS DOWN
GI	GRATE INLET
CI	CURB INLET
AI	AREA INLET
DCI	DOUBLE CURB INLET
CGCI	COMBINED GRATE/CURB INLET
GT	GRATED TROUGH

NOTE:
ALL EXISTING FIBER OPTIC IN THE CORRIDOR IS OWNED AND OPERATED BY OTHER ENTITIES.

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SCALE
0 20 40 60



UTILITY LEGEND	
OE	OVERHEAD UTILITY POWER
UE	BURIED UTILITY POWER
UT	BURIED TELEPHONE CABLE
W	WATER UTILITY
G	GAS UTILITY
S	SANITARY SEWER
SS	STORM SEWER
	COMBINED STORM SANITARY SEWER
FO	FIBER OPTIC
A	WATER MAIN (ABANDONED)
	WATER MAIN (NEW)

PAVEMENT LEGEND	
	PROPOSED SIDEWALK
	COLDMILLING BITUMINOUS PAVEMENT
	FULL DEPTH PAVEMENT, REMOVE AND REPLACE
	DRIVEWAY, REMOVE AND REPLACE
	ADA RAMP

LAYOUT	CWW	12/2024
DRAWN	SMC	12/2024
REVIEWED	DJK	12/2024

MSD BASEMAP NUMBERS	MSD PROJECT NUMBER
29H1	24-MSD-00480

DRAINAGE PLAN SHEETS
SHEET 11 OF 31

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STATE OF MISSOURI
DENNIS J KOSCIELSKI
NUMBER PE-2005000712
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED	
7/17/2025	
ROUTE	STATE
231	MO
DISTRICT	SHEET NO.
SL	143
COUNTY	
ST. LOUIS	
JOB NO.	
J6S3631	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

DESCRIPTION	DATE

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MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
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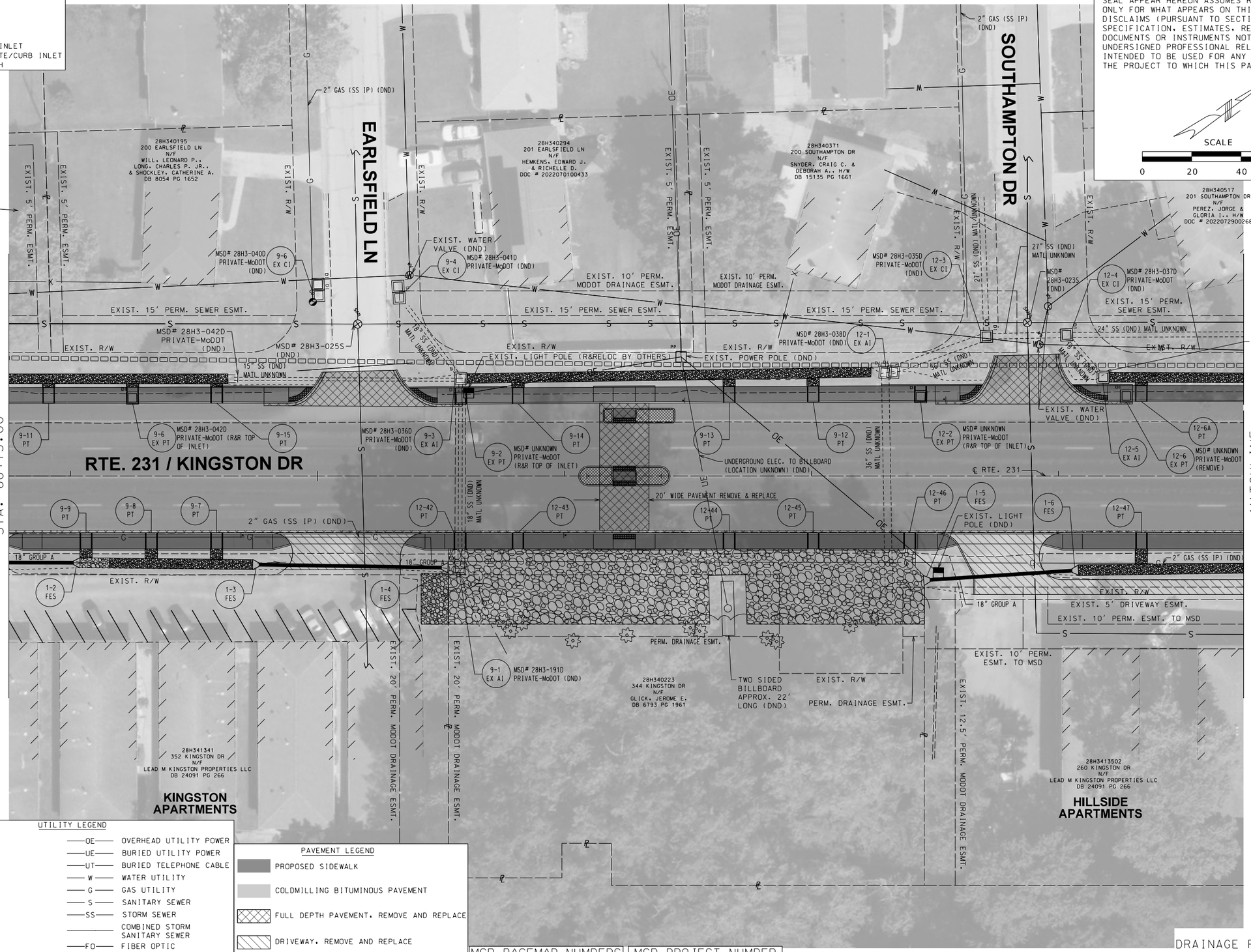
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UTILITY LEGEND	
SS	STORM SEWER
PT	PASS THROUGH
PD	PASS DOWN
GI	GRATE INLET
CI	CURB INLET
AI	AREA INLET
DCI	DOUBLE CURB INLET
CGCI	COMBINED GRATE/CURB INLET
GT	GRATED TROUGH

NOTE:
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SCALE
0 20 40 60



UTILITY LEGEND	
——OE——	OVERHEAD UTILITY POWER
——UE——	BURIED UTILITY POWER
——UT——	BURIED TELEPHONE CABLE
—— W ——	WATER UTILITY
—— G ——	GAS UTILITY
—— S ——	SANITARY SEWER
——SS——	STORM SEWER
————	COMBINED STORM SANITARY SEWER
——FO——	FIBER OPTIC
===: A ===:	WATER MAIN (ABANDONED)
———	WATER MAIN (NEW)

PAVEMENT LEGEND	
	PROPOSED SIDEWALK
	COLDMILLING BITUMINOUS PAVEMENT
	FULL DEPTH PAVEMENT, REMOVE AND REPLACE
	DRIVEWAY, REMOVE AND REPLACE
	ADA RAMP

LAYOUT	CWW	12/2024
DRAWN	SMC	12/2024
REVIEWED	DJK	12/2024

MSD BASEMAP NUMBERS	MSD PROJECT NUMBER
29H1	24-MSD-00480

DRAINAGE PLAN SHEETS
SHEET 12 OF 31

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STATE OF MISSOURI
DENNIS J. KOSCIELSKI
NUMBER PE-2005000712
PROFESSIONAL ENGINEER

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DATE PREPARED	
7/17/2025	
ROUTE	STATE
231	MO
DISTRICT	SHEET NO.
SL	144
COUNTY	
ST. LOUIS	
JOB NO.	
J6S3631	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

NO.	DESCRIPTION	DATE

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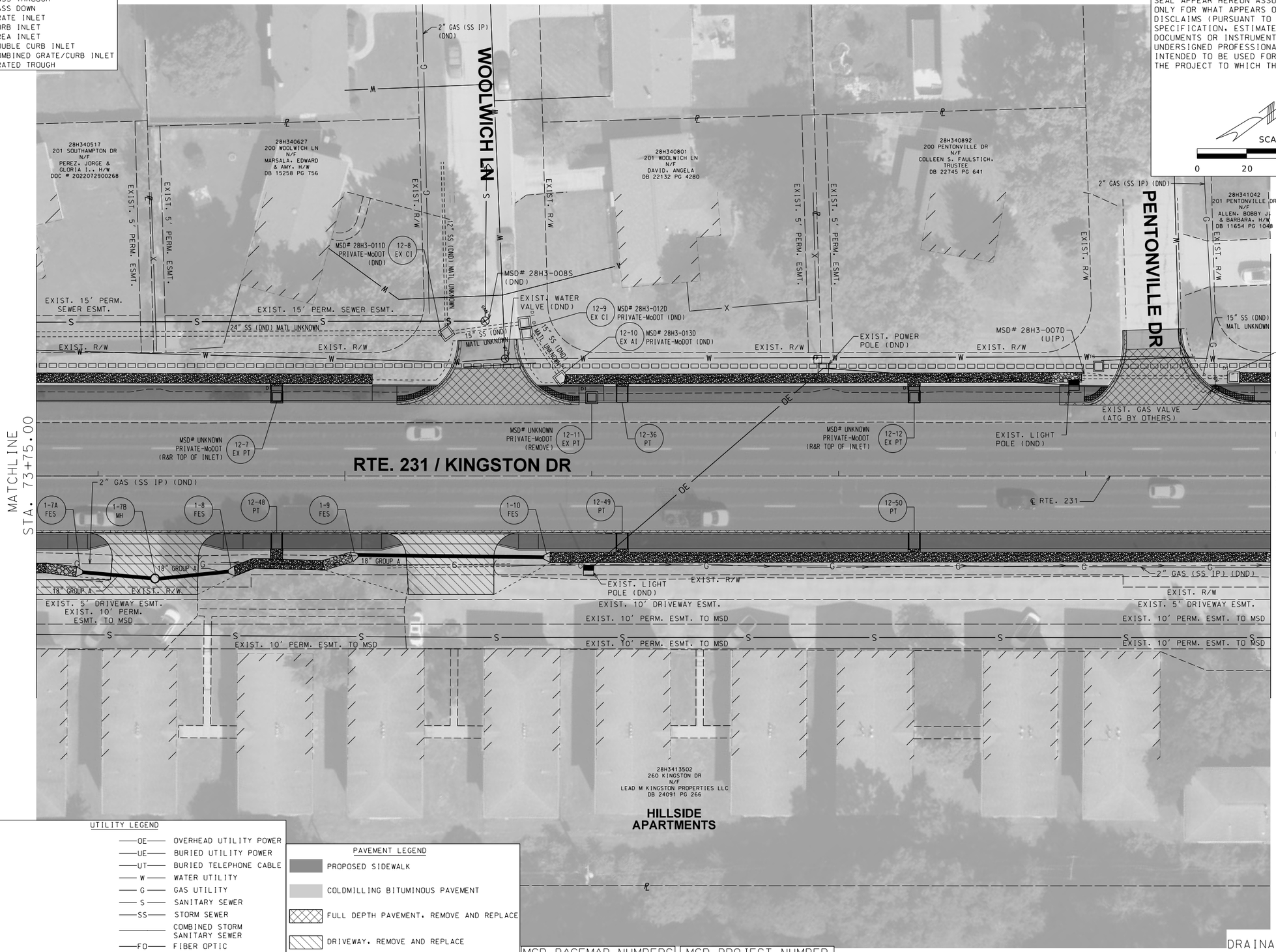
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UTILITY LEGEND	
SS	STORM SEWER
PT	PASS THROUGH
PD	PASS DOWN
GI	GRATE INLET
CI	CURB INLET
AI	AREA INLET
DCI	DOUBLE CURB INLET
CGCI	COMBINED GRATE/CURB INLET
GT	GRATED TROUGH

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STATE OF MISSOURI
DENNIS J KOSCIELSKI
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DATE PREPARED	
7/17/2025	
ROUTE	STATE
231	MO
DISTRICT	SHEET NO.
SL	145
COUNTY	
ST. LOUIS	
JOB NO.	
J6S3631	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

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LAYOUT		12/2024
DRAWN	CWW	12/2024
REVIEWED	SMC	12/2024
	DJK	12/2024

UTILITY LEGEND

——OE——	OVERHEAD UTILITY POWER
——UE——	BURIED UTILITY POWER
——UT——	BURIED TELEPHONE CABLE
—— W ——	WATER UTILITY
—— G ——	GAS UTILITY
—— S ——	SANITARY SEWER
——SS——	STORM SEWER
————	COMBINED STORM SANITARY SEWER
——FO——	FIBER OPTIC
===: A :===	WATER MAIN (ABANDONED)
———	WATER MAIN (NEW)

PAVEMENT LEGEND

	PROPOSED SIDEWALK
	COLDMILLING BITUMINOUS PAVEMENT
	FULL DEPTH PAVEMENT, REMOVE AND REPLACE
	DRIVEWAY, REMOVE AND REPLACE
	ADA RAMP

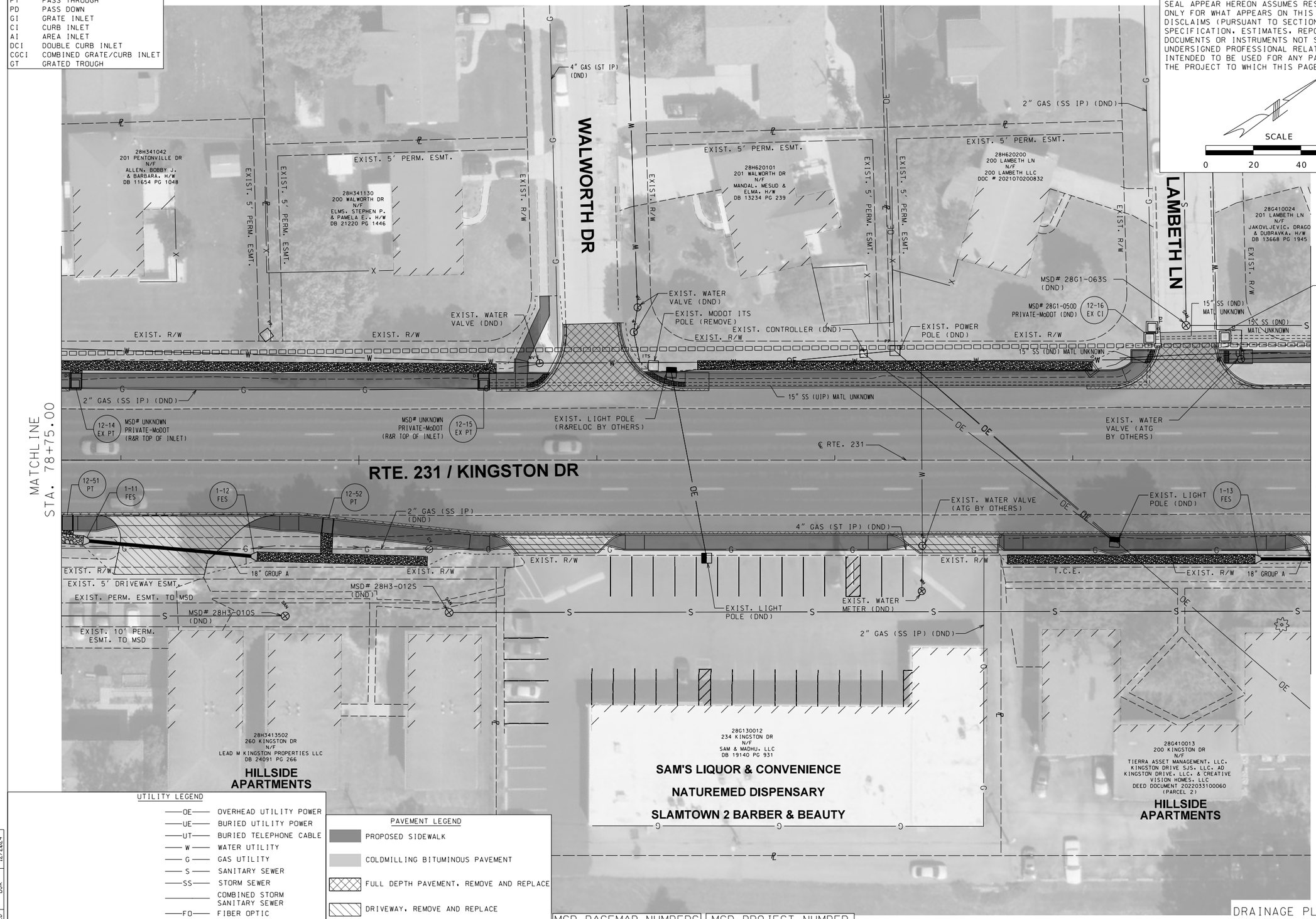
MSD BASEMAP NUMBERS	MSD PROJECT NUMBER
29H1	24-MSD-00480

DRAINAGE PLAN SHEETS
SHEET 13 OF 31

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UTILITY LEGEND	
SS	STORM SEWER
PT	PASS THROUGH
PD	PASS DOWN
GI	GRATE INLET
CI	CURB INLET
AI	AREA INLET
DCI	DOUBLE CURB INLET
CGCI	COMBINED GRATE/CURB INLET
GT	GRATED TROUGH

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STATE OF MISSOURI
DENNIS J KOSCIELSKI
NUMBER PE-2005000712
PROFESSIONAL ENGINEER

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DATE PREPARED	
7/17/2025	
ROUTE	STATE
231	MO
DISTRICT	SHEET NO.
SL	146
COUNTY	
ST. LOUIS	
JOB NO.	
J6S3631	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

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LAYOUT	CWW	12/2024
DRAWN	SMC	12/2024
REVIEWED	DJK	12/2024

UTILITY LEGEND

OE	OVERHEAD UTILITY POWER
UE	BURIED UTILITY POWER
UT	BURIED TELEPHONE CABLE
W	WATER UTILITY
G	GAS UTILITY
S	SANITARY SEWER
SS	STORM SEWER
	COMBINED STORM SANITARY SEWER
FO	FIBER OPTIC
A	WATER MAIN (ABANDONED)
	WATER MAIN (NEW)

PAVEMENT LEGEND

PROPOSED SIDEWALK
COLDMILLING BITUMINOUS PAVEMENT
FULL DEPTH PAVEMENT, REMOVE AND REPLACE
DRIVEWAY, REMOVE AND REPLACE
ADA RAMP

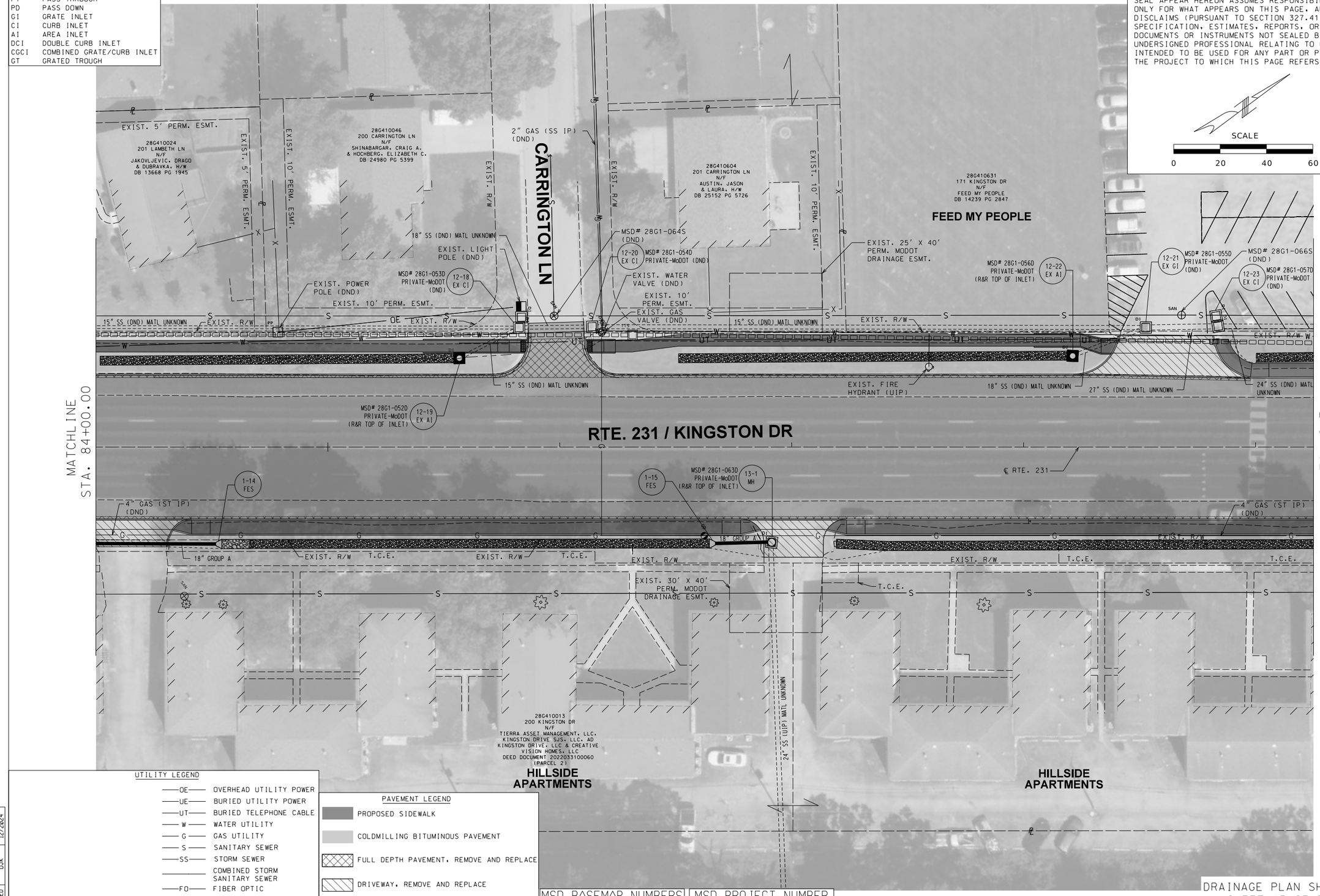
MSD BASEMAP NUMBERS	MSD PROJECT NUMBER
29H1	24-MSD-00480

DRAINAGE PLAN SHEETS
SHEET 14 OF 31

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UTILITY LEGEND	
SS	STORM SEWER
PT	PASS THROUGH
PD	PASS DOWN
GI	GRATE INLET
CI	CURB INLET
AI	AREA INLET
DCI	DOUBLE CURB INLET
CGCI	COMBINED GRATE/CURB INLET
GT	GRATED TROUGH

NOTE:
ALL EXISTING FIBER OPTIC IN THE CORRIDOR IS OWNED AND OPERATED BY OTHER ENTITIES.



UTILITY LEGEND	
OE	OVERHEAD UTILITY POWER
UE	BURIED UTILITY POWER
UT	BURIED TELEPHONE CABLE
W	WATER UTILITY
G	GAS UTILITY
S	SANITARY SEWER
SS	STORM SEWER
	COMBINED STORM SANITARY SEWER
FO	FIBER OPTIC
A	WATER MAIN (ABANDONED)
	WATER MAIN (NEW)

PAVEMENT LEGEND	
	PROPOSED SIDEWALK
	COLDMILLING BITUMINOUS PAVEMENT
	FULL DEPTH PAVEMENT, REMOVE AND REPLACE
	DRIVEWAY, REMOVE AND REPLACE
	ADA RAMP

LAYOUT	CWW	12/2024
DRAWN	SMC	12/2024
REVIEWED	DJK	12/2024

MSD BASEMAP NUMBERS	MSD PROJECT NUMBER
29H1	24-MSD-00480

DRAINAGE PLAN SHEETS
SHEET 15 OF 31

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SCALE
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STATE OF MISSOURI
DENNIS J KOSCIELSKI
NUMBER PE-2005000712
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED	
7/17/2025	
ROUTE	STATE
231	MO
DISTRICT	SHEET NO.
SL	147
COUNTY	
ST. LOUIS	
JOB NO.	
J6S3631	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

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UTILITY LEGEND	
SS	STORM SEWER
PT	PASS THROUGH
PD	PASS DOWN
GI	GRATE INLET
CI	CURB INLET
AI	AREA INLET
DCI	DOUBLE CURB INLET
CGCI	COMBINED GRATE/CURB INLET
GT	GRATED TROUGH

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SCALE
0 20 40 60

28G410631 171 KINGSTON DR N/F FEED MY PEOPLE DB 14239 PG 2847
FEED MY PEOPLE
MSD# 28G1-059D PRIVATE-MoDOT (DND)
12-24 EX GI
EXIST. R/W
CLYDE AVE
28G410178 161 KINGSTON DR N/F SABANAGIC, FERID DB 21873 PG 602
ARCH AUTO REPAIR SHOP
28G410651 159 KINGSTON DR N/F HADZIC, ENES DB 22248 PG 2291
28G410288 155 KINGSTON DR N/F WRIGHT, TIMOTHY L. & KAREN A., H/W DB 8014 PG 2292
28G410328 151 KINGSTON DR N/F ECKMAN, AUDREY J. & BRETT A. DB 11720 PG 1438
28G410387 147 KINGSTON DR N/F 147 KINGSTON DRIVE LLC DB 22155 PG 487
MSD# 28G1-058D PRIVATE-MoDOT (DND)
12-27 EX AI
MSD# 28G1-069D (R&R TOP OF INLET)
12-30 EX AI
EXIST. 25' PERM. MODOT DRAINAGE ESMT.
12-38 AI
24" GROUP A
12-39 GI
12-28 MH
MSD# 28G1-060D PRIVATE-MoDOT (R&R TOP OF INLET)
27" SS (UIP) MATL UNKNOWN
12-35 EX AI
MSD# 28G1-061D PRIVATE-MoDOT (DND)
EXIST. R/W
24" SS (DND) MATL UNKNOWN
12" SS (UIP) MATL UNKNOWN
EXIST. WATER VALVE (DND)
4" GAS (PL IP WTW) (DND)
18" SS (UIP) MATL UNKNOWN
MSD# 28G1-068S (UIP)
15' WIDE PAVEMENT REMOVE & REPLACE
12-34 EX GI
MSD# 28G1-062D PRIVATE-MoDOT (R&R TOP OF INLET)
12-37 PT
MSD# UNKNOWN PRIVATE-MoDOT (R&R TOP OF INLET)
12-25 EX PT
12-26 EX AI
MSD# UNKNOWN PRIVATE-MoDOT (R)
12-40 GI
MSD# UNKNOWN PRIVATE-MoDOT (R&R TOP OF INLET)
12-29 EX GI
12-41 GI
18" GROUP A
24" SS (UIP) MATL UNKNOWN
MATCHLINE STA. 89+25.00
RTE. 231 / KINGSTON DR
MSD# UNKNOWN (R&R TOP OF INLET)
12-31 MH
4" GAS (PL IP) (DND)
MATCHLINE STA. 94+25.00
℄ RTE. 231
20' WIDE PAVEMENT REMOVE & REPLACE
4" GAS (ST IP) (DND)
MSD# 28G1-072S (UIP)
4" GAS (PL IP) (DND)
T.C.E.
EXIST. R/W
EXIST. GAS VALVE (UIP)
6" SS (DND) MATL UNKNOWN
MSD# 28G1-065D (R&R TOP OF INLET)
12-32 EX AI
EXIST. PERM. MODOT DRAINAGE ESMT.
24" SS (UIP) MATL UNKNOWN
EXIST. WATER VALVE (DND)
EXIST. WATER METER (DND)
EXIST. POWER POLE (DND)
12-33 EX AI
MSD# 28G1-066D (DND)
EXIST. GAS VALVE (DND)
28G410842 160 KINGSTON DR N/F TIERRA ASSET MANAGEMENT, LLC, KINGSTON DRIVE SJS, LLC, AD KINGSTON DRIVE, LLC & CREATIVE VISION HOMES, LLC DEED DOCUMENT 20220331 (PARCEL 2)
HILLSIDE APARTMENTS
28G410189 150 KINGSTON DR N/F MR YUMMY'S ENTERPRISES, LLC DB 25188 PG 40
VACANT (FORMERLY CAR WASH)
U.S. SURVEY NO. 904
U.S. SURVEY NO. 3340
28G410299 120 KINGSTON DR N/F ZERILLI, JOSEPH A. & LESLIE A., H/W DB 13039 PG 2316

UTILITY LEGEND	
OE	OVERHEAD UTILITY POWER
UE	BURIED UTILITY POWER
UT	BURIED TELEPHONE CABLE
W	WATER UTILITY
G	GAS UTILITY
S	SANITARY SEWER
SS	STORM SEWER
	COMBINED STORM SANITARY SEWER
FO	FIBER OPTIC
A	WATER MAIN (ABANDONED)
	WATER MAIN (NEW)

PAVEMENT LEGEND	
	PROPOSED SIDEWALK
	COLDMILLING BITUMINOUS PAVEMENT
	FULL DEPTH PAVEMENT, REMOVE AND REPLACE
	DRIVEWAY, REMOVE AND REPLACE
	ADA RAMP

LAYOUT	CWW	12/2024
DRAWN	SMC	12/2024
REVIEWED	DJK	12/2024

MSD BASEMAP NUMBERS: 29H1
MSD PROJECT NUMBER: 24-MSD-00480

DRAINAGE PLAN SHEETS
SHEET 16 OF 31

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STATE OF MISSOURI
DENNIS J KOSCIELSKI
NUMBER PE-2005000712
PROFESSIONAL ENGINEER

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DATE PREPARED	
7/17/2025	
ROUTE	STATE
231	MO
DISTRICT	SHEET NO.
SL	148
COUNTY	
ST. LOUIS	
JOB NO.	
J6S3631	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

DATE	DESCRIPTION

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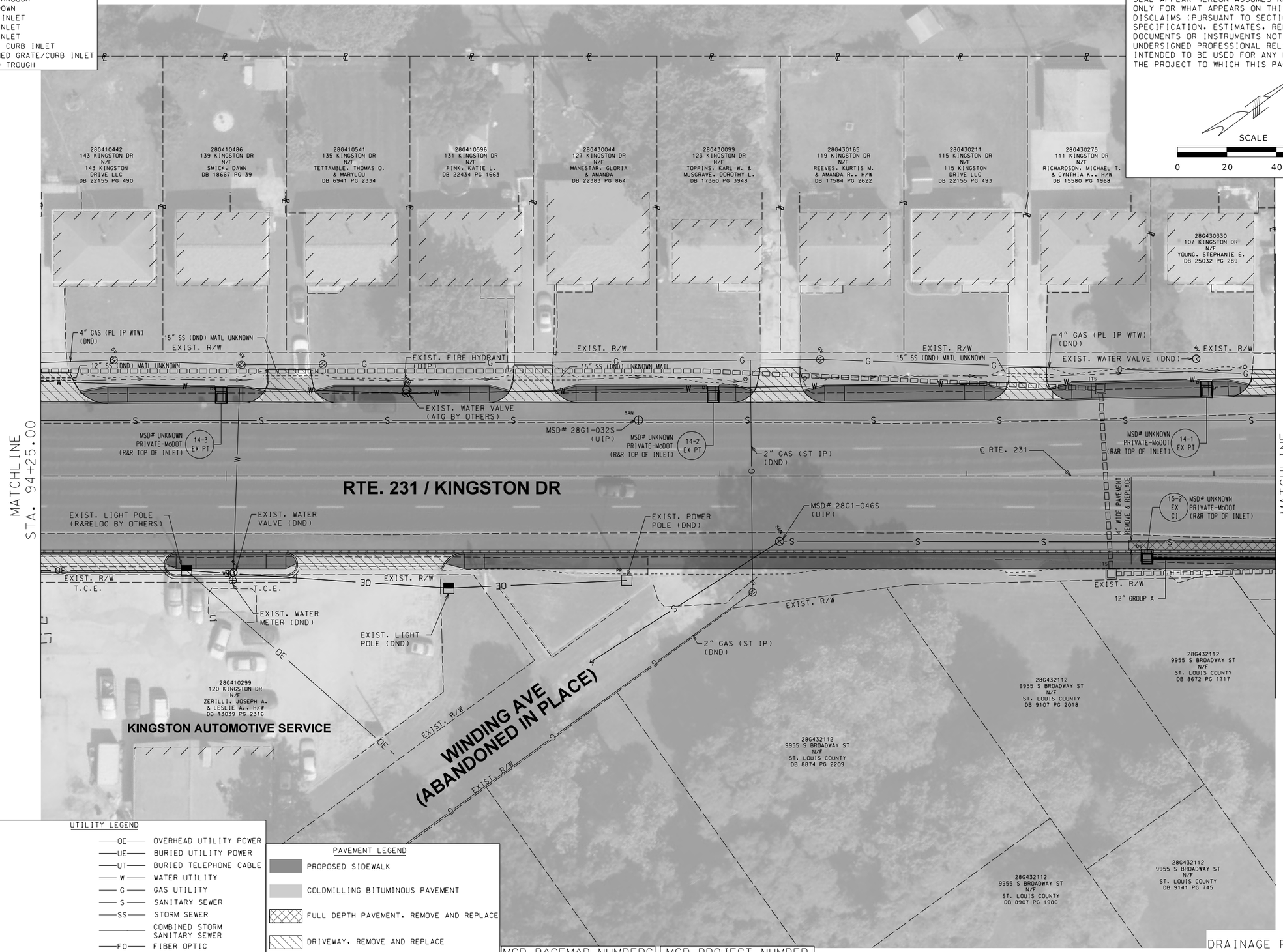
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UTILITY LEGEND	
SS	STORM SEWER
PT	PASS THROUGH
PD	PASS DOWN
GI	GRATE INLET
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DCI	DOUBLE CURB INLET
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SCALE
0 20 40 60



UTILITY LEGEND

——OE——	OVERHEAD UTILITY POWER
——UE——	BURIED UTILITY POWER
——UT——	BURIED TELEPHONE CABLE
—— W ——	WATER UTILITY
—— G ——	GAS UTILITY
—— S ——	SANITARY SEWER
——SS——	STORM SEWER
————	COMBINED STORM SANITARY SEWER
——FO——	FIBER OPTIC
===: A :===	WATER MAIN (ABANDONED)
———	WATER MAIN (NEW)

PAVEMENT LEGEND

	PROPOSED SIDEWALK
	COLDMILLING BITUMINOUS PAVEMENT
	FULL DEPTH PAVEMENT, REMOVE AND REPLACE
	DRIVEWAY, REMOVE AND REPLACE
	ADA RAMP

LAYOUT	CWW	12/2024
DRAWN	SMC	12/2024
REVIEWED	DJK	12/2024

MSD BASEMAP NUMBERS	MSD PROJECT NUMBER
29H1	24-MSD-00480

DRAINAGE PLAN SHEETS
SHEET 17 OF 31

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STATE OF MISSOURI
DENNIS J KOSCIELSKI
NUMBER PE-2005000712
PROFESSIONAL ENGINEER

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DATE PREPARED	
7/17/2025	
ROUTE	STATE
231	MO
DISTRICT	SHEET NO.
SL	149
COUNTY	
ST. LOUIS	
JOB NO.	
J6S3631	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

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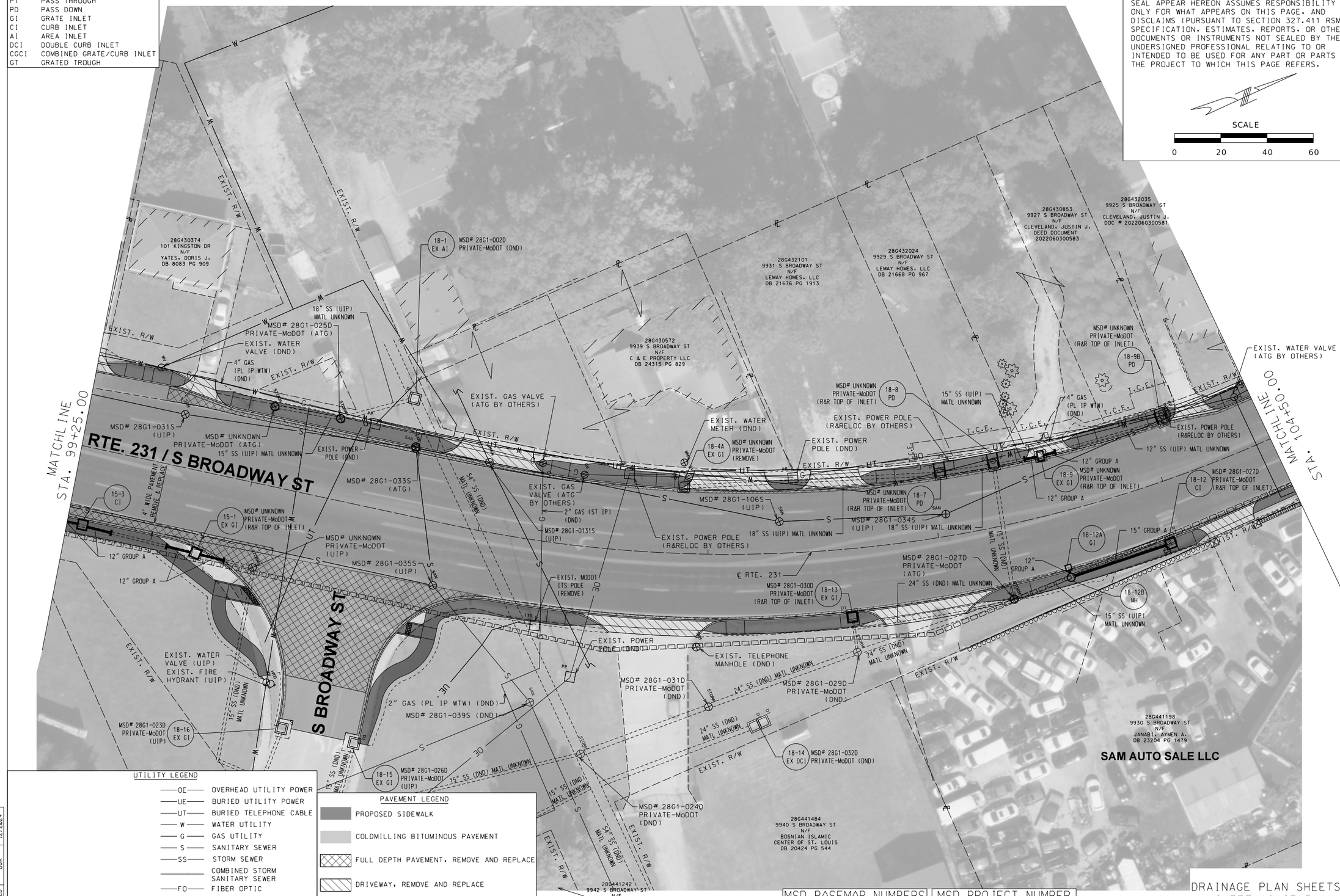
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UTILITY LEGEND	
SS	STORM SEWER
PT	PASS THROUGH
PD	PASS DOWN
GI	GRATE INLET
CI	CURB INLET
AI	AREA INLET
DCI	DOUBLE CURB INLET
CGCI	COMBINED GRATE/CURB INLET
GT	GRATED TROUGH

NOTE:
ALL EXISTING FIBER OPTIC IN THE CORRIDOR IS OWNED AND OPERATED BY OTHER ENTITIES.



UTILITY LEGEND

OE	OVERHEAD UTILITY POWER
UE	BURIED UTILITY POWER
UT	BURIED TELEPHONE CABLE
W	WATER UTILITY
G	GAS UTILITY
S	SANITARY SEWER
SS	STORM SEWER
	COMBINED STORM SANITARY SEWER
FO	FIBER OPTIC
A	WATER MAIN (ABANDONED)
	WATER MAIN (NEW)

PAVEMENT LEGEND

- PROPOSED SIDEWALK
- COLDMILLING BITUMINOUS PAVEMENT
- FULL DEPTH PAVEMENT, REMOVE AND REPLACE
- DRIVEWAY, REMOVE AND REPLACE
- ADA RAMP

LAYOUT	CWW	12/2024
DRAWN	SMC	12/2024
REVIEWED	DJK	12/2024

MSD BASEMAP NUMBERS: 29H1

MSD PROJECT NUMBER: 24-MSD-00480

DRAINAGE PLAN SHEETS
SHEET 18 OF 31

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STATE OF MISSOURI
DENNIS J KOSCIELSKI
NUMBER PE-2005000712
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED
7/17/2025

ROUTE	STATE
231	MO
DISTRICT	SHEET NO.
SL	150

COUNTY
ST. LOUIS

JOB NO.
J6S3631

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION	DATE

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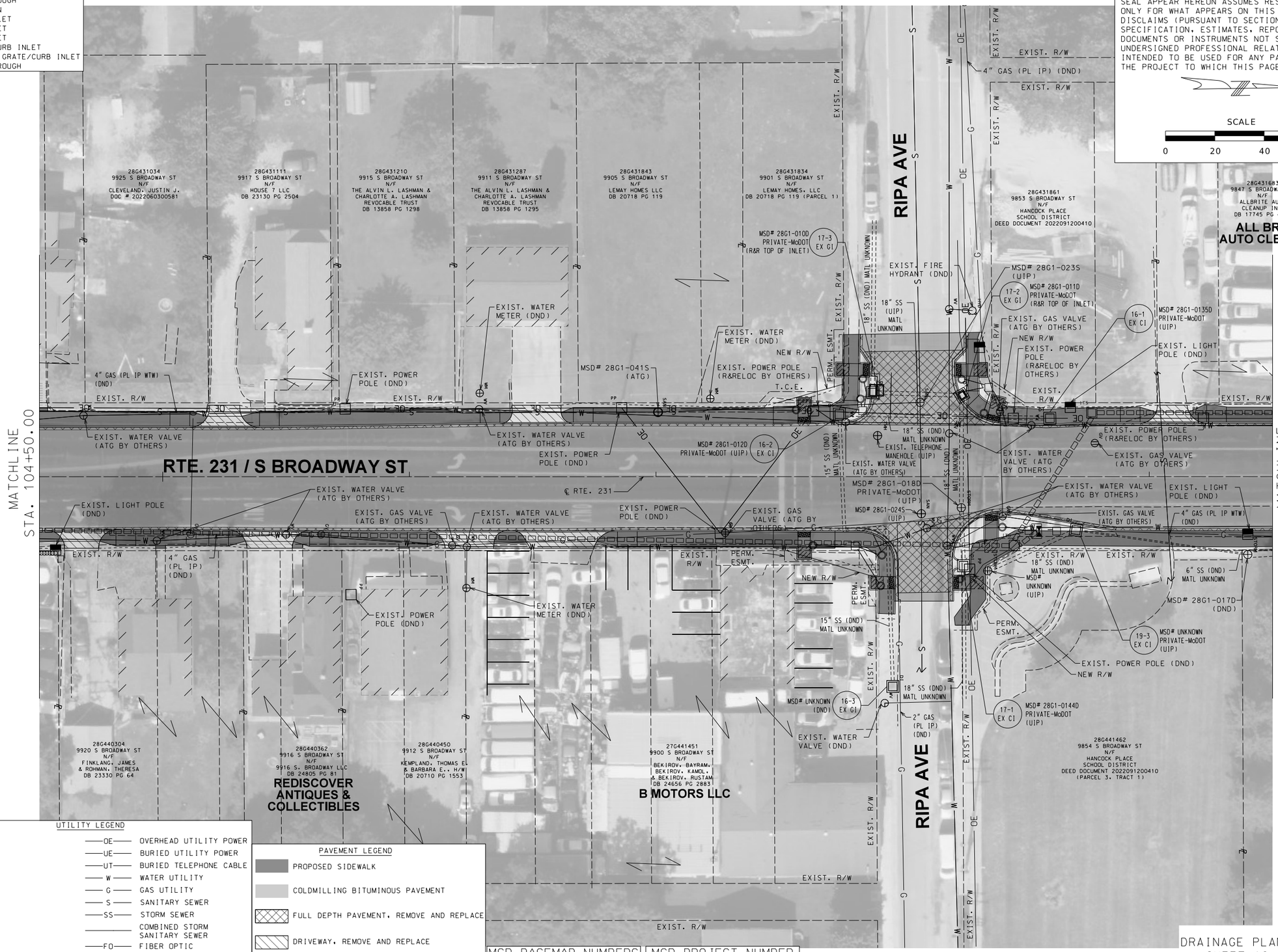
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UTILITY LEGEND	
SS	STORM SEWER
PT	PASS THROUGH
PD	PASS DOWN
GI	GRATE INLET
CI	CURB INLET
AI	AREA INLET
DCI	DOUBLE CURB INLET
CGCI	COMBINED GRATE/CURB INLET
GT	GRATED TROUGH

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SCALE
0 20 40 60



UTILITY LEGEND

——OE——	OVERHEAD UTILITY POWER
——UE——	BURIED UTILITY POWER
——UT——	BURIED TELEPHONE CABLE
—— W ——	WATER UTILITY
—— G ——	GAS UTILITY
—— S ——	SANITARY SEWER
——SS——	STORM SEWER
————	COMBINED STORM SANITARY SEWER
——FO——	FIBER OPTIC
===: A ===:	WATER MAIN (ABANDONED)
———	WATER MAIN (NEW)

PAVEMENT LEGEND

	PROPOSED SIDEWALK
	COLDMILLING BITUMINOUS PAVEMENT
	FULL DEPTH PAVEMENT, REMOVE AND REPLACE
	DRIVEWAY, REMOVE AND REPLACE
	ADA RAMP

LAYOUT	CWW	12/2024
DRAWN	SMC	12/2024
REVIEWED	DJK	12/2024

MSD BASEMAP NUMBERS
29H1

MSD PROJECT NUMBER
24-MSD-00480

DRAINAGE PLAN SHEETS
SHEET 19 OF 31

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STATE OF MISSOURI
DENNIS J KOSCIELSKI
NUMBER PE-2005000712
PROFESSIONAL ENGINEER

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DATE PREPARED
7/17/2025

ROUTE	STATE
231	MO
DISTRICT	SHEET NO.
SL	151

COUNTY
ST. LOUIS

JOB NO.
J6S3631

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION	DATE

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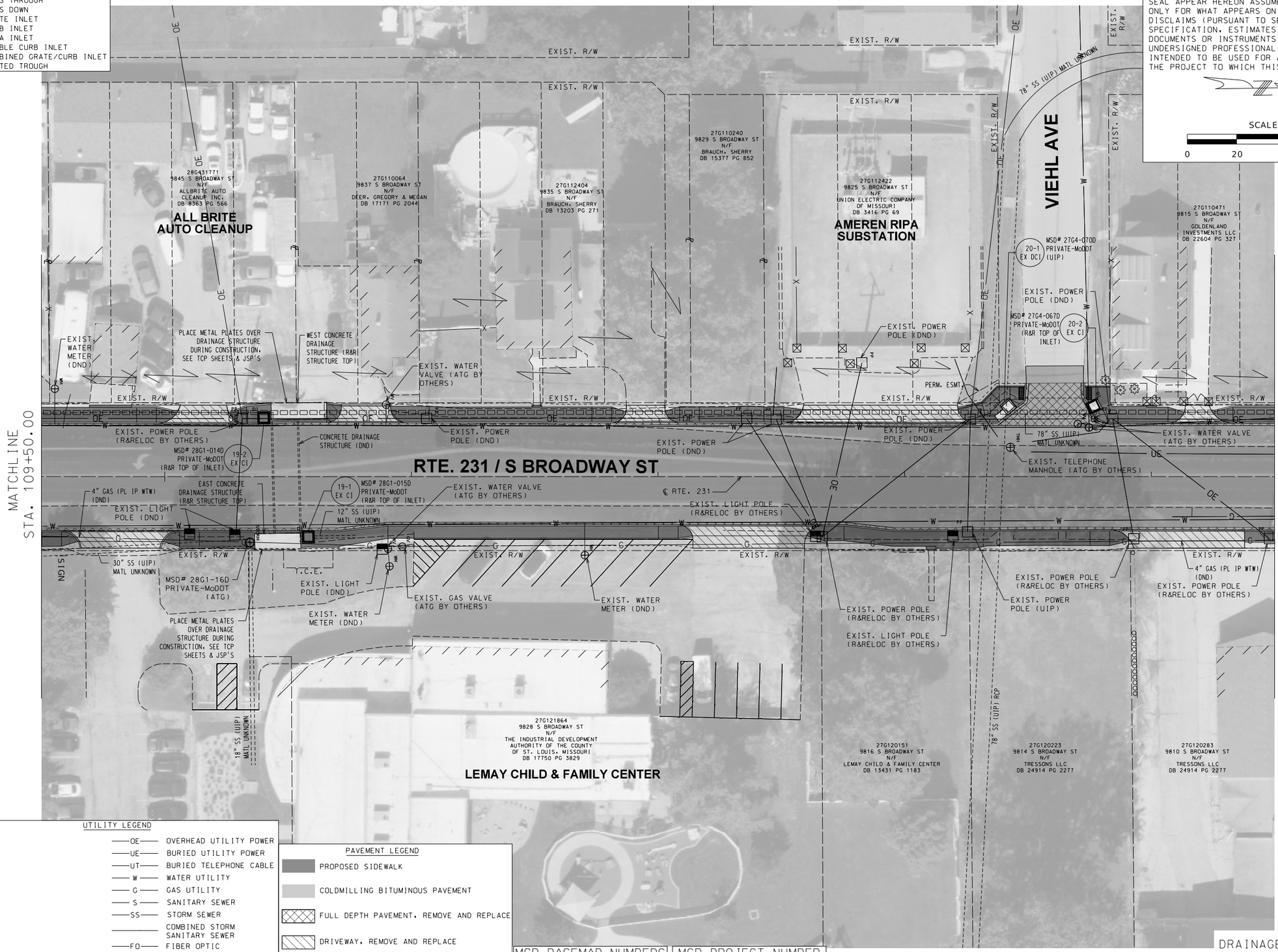
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UTILITY LEGEND	
SS	STORM SEWER
PT	PASS THROUGH
PD	PASS DOWN
GI	GRATE INLET
CI	CURB INLET
AI	AREA INLET
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CGCI	COMBINED GRATE/CURB INLET
GT	GRATED TROUGH

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SCALE
0 20 40 60



UTILITY LEGEND

OE	OVERHEAD UTILITY POWER
UE	BURIED UTILITY POWER
UT	BURIED TELEPHONE CABLE
W	WATER UTILITY
G	GAS UTILITY
S	SANITARY SEWER
SS	STORM SEWER
	COMBINED STORM SANITARY SEWER
FO	FIBER OPTIC
A	WATER MAIN (ABANDONED)
	WATER MAIN (NEW)

PAVEMENT LEGEND

	PROPOSED SIDEWALK
	COLDMILLING BITUMINOUS PAVEMENT
	FULL DEPTH PAVEMENT, REMOVE AND REPLACE
	DRIVEWAY, REMOVE AND REPLACE
	ADA RAMP

LAYOUT	CWW	12/2024
DRAWN	SMC	12/2024
REVIEWED	DJK	12/2024

MSD BASEMAP NUMBERS: 29H1

MSD PROJECT NUMBER: 24-MSD-00480

DRAINAGE PLAN SHEETS
SHEET 20 OF 31

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STATE OF MISSOURI
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NUMBER PE-2005000712
PROFESSIONAL ENGINEER

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DATE PREPARED: 7/17/2025

ROUTE	STATE
231	MO
DISTRICT	SHEET NO.
SL	152

COUNTY: ST. LOUIS
JOB NO.: J6S3631
CONTRACT ID.:
PROJECT NO.:
BRIDGE NO.:

DESCRIPTION	DATE

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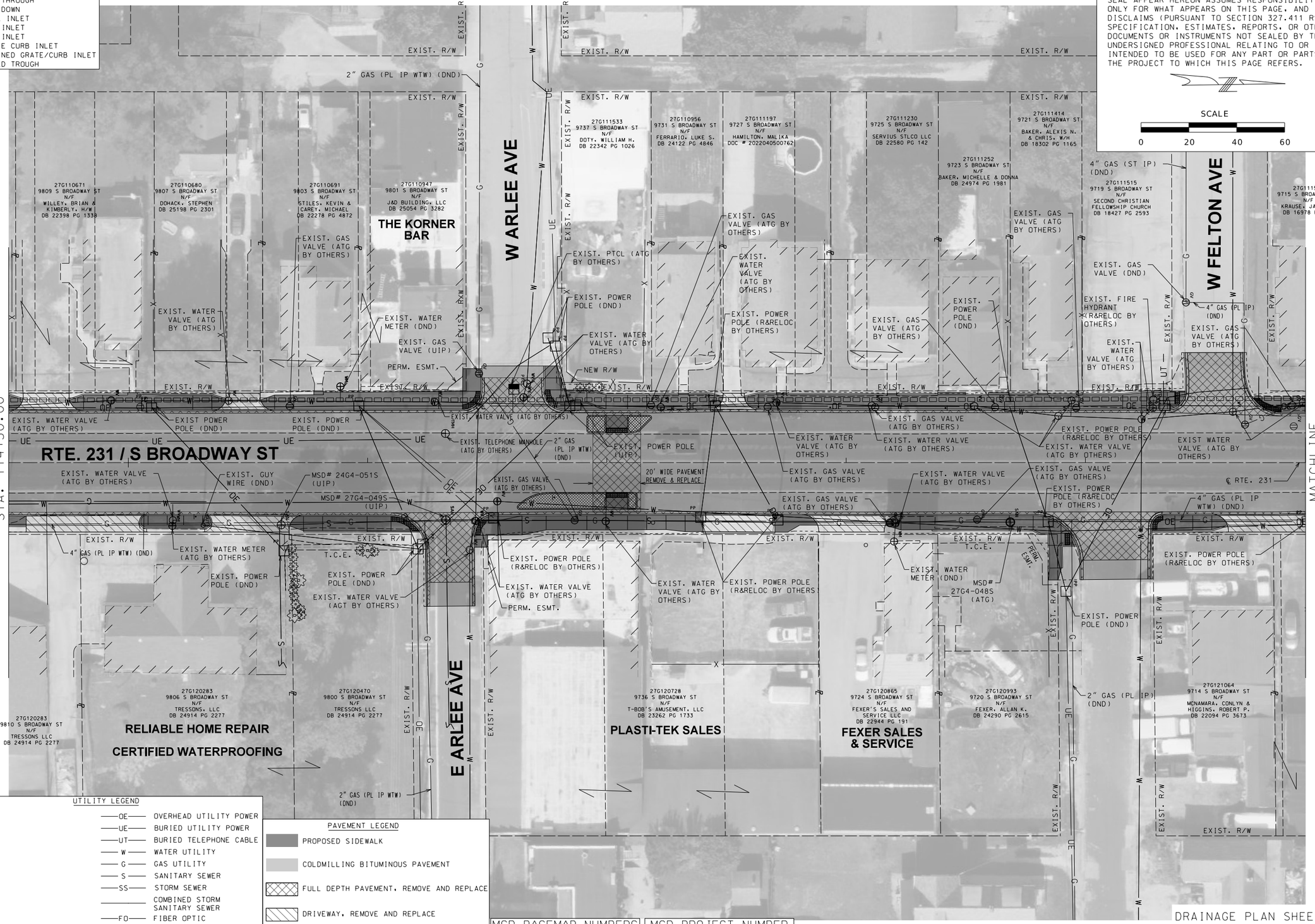
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UTILITY LEGEND	
SS	STORM SEWER
PT	PASS THROUGH
PD	PASS DOWN
GI	GRATE INLET
CI	CURB INLET
AI	AREA INLET
DCI	DOUBLE CURB INLET
CGCI	COMBINED GRATE/CURB INLET
GT	GRATED TROUGH

NOTE:
ALL EXISTING FIBER OPTIC IN THE CORRIDOR IS OWNED AND OPERATED BY OTHER ENTITIES.



UTILITY LEGEND	
OE	OVERHEAD UTILITY POWER
UE	BURIED UTILITY POWER
UT	BURIED TELEPHONE CABLE
W	WATER UTILITY
G	GAS UTILITY
S	SANITARY SEWER
SS	STORM SEWER
	COMBINED STORM SANITARY SEWER
FO	FIBER OPTIC
A	WATER MAIN (ABANDONED)
	WATER MAIN (NEW)

PAVEMENT LEGEND	
	PROPOSED SIDEWALK
	COLDMILLING BITUMINOUS PAVEMENT
	FULL DEPTH PAVEMENT, REMOVE AND REPLACE
	DRIVEWAY, REMOVE AND REPLACE
	ADA RAMP

LAYOUT	CWW	12/2024
DRAWN	SMC	12/2024
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MSD BASEMAP NUMBERS
29H1

MSD PROJECT NUMBER
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ROUTE	STATE
231	MO
DISTRICT	SHEET NO.
SL	153

COUNTY
ST. LOUIS

JOB NO.
J6S3631

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DATE	DESCRIPTION

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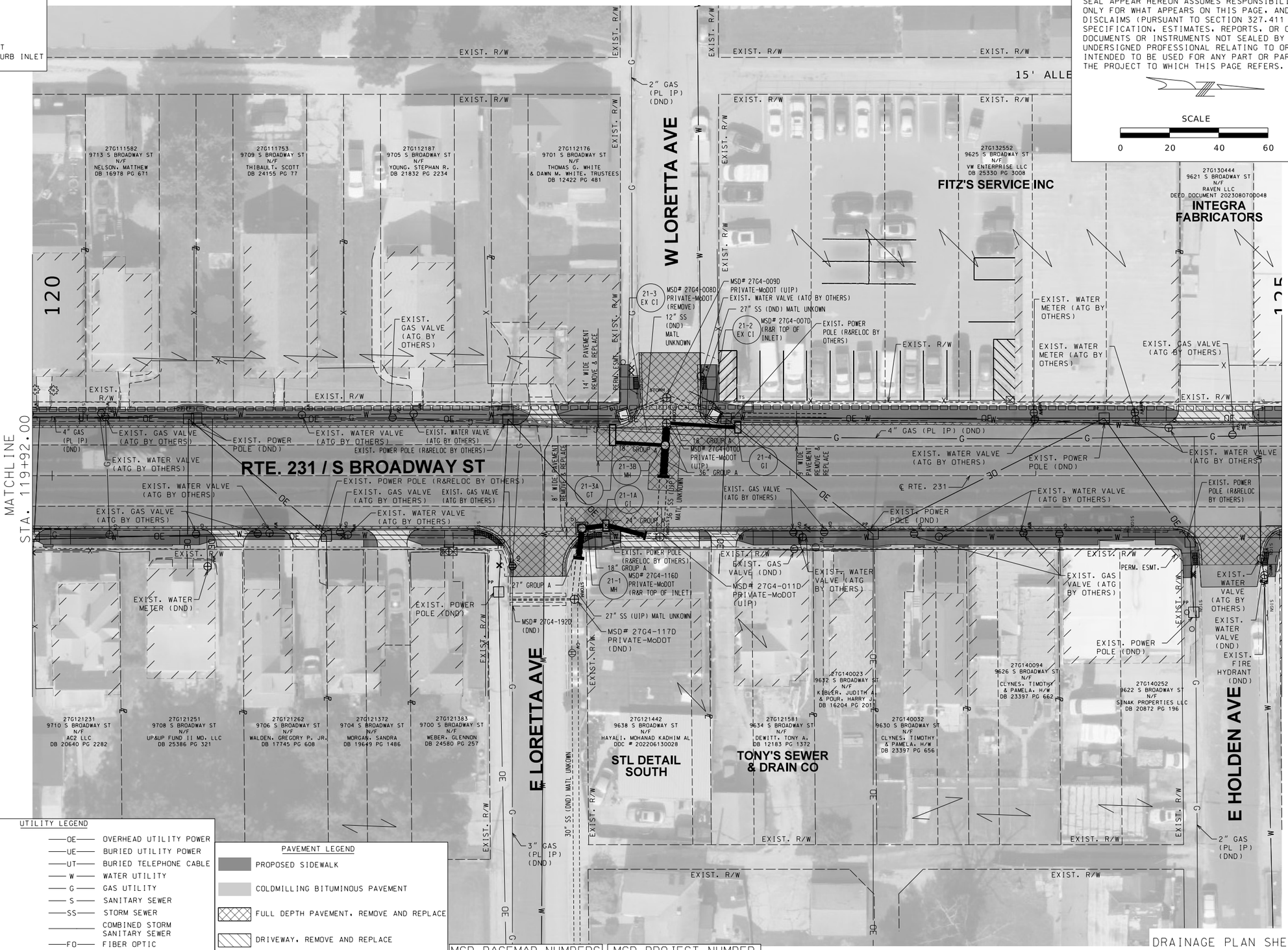
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DRAINAGE PLAN SHEETS
SHEET 21 OF 31

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UTILITY LEGEND	
SS	STORM SEWER
PT	PASS THROUGH
PD	PASS DOWN
GI	GRATE INLET
CI	CURB INLET
AI	AREA INLET
DCI	DOUBLE CURB INLET
CGCI	COMBINED GRATE/CURB INLET
GT	GRATED TROUGH

NOTE:
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7/17/2025	
ROUTE	STATE
231	MO
DISTRICT	SHEET NO.
SL	154

COUNTY: ST. LOUIS
JOB NO.: J6S3631
CONTRACT ID.:
PROJECT NO.:
BRIDGE NO.:

NO.	DESCRIPTION	DATE

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LAYOUT	CWW	12/2024
DRAWN	SMC	12/2024
REVIEWED	DJK	12/2024

UTILITY LEGEND

——OE——	OVERHEAD UTILITY POWER
——UE——	BURIED UTILITY POWER
——UT——	BURIED TELEPHONE CABLE
—— W ——	WATER UTILITY
—— G ——	GAS UTILITY
—— S ——	SANITARY SEWER
——SS——	STORM SEWER
————	COMBINED STORM SANITARY SEWER
——FO——	FIBER OPTIC
===: A :===	WATER MAIN (ABANDONED)
———	WATER MAIN (NEW)

PAVEMENT LEGEND

	PROPOSED SIDEWALK
	COLDMILLING BITUMINOUS PAVEMENT
	FULL DEPTH PAVEMENT, REMOVE AND REPLACE
	DRIVEWAY, REMOVE AND REPLACE
	ADA RAMP

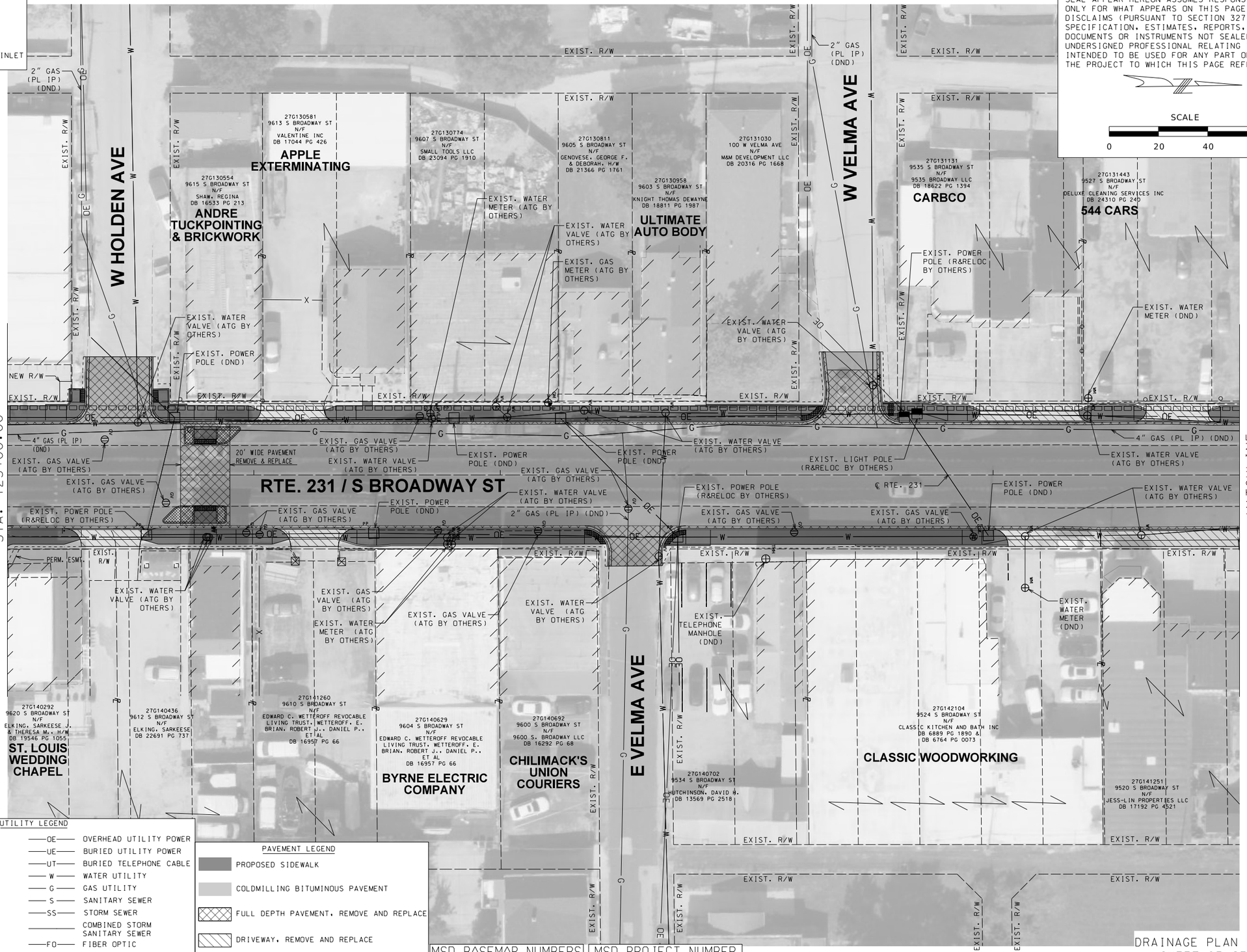
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29H1	24-MSD-00480

DRAINAGE PLAN SHEETS
SHEET 22 OF 31

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UTILITY LEGEND	
SS	STORM SEWER
PT	PASS THROUGH
PD	PASS DOWN
GI	GRATE INLET
CI	CURB INLET
AI	AREA INLET
DCI	DOUBLE CURB INLET
CGCI	COMBINED GRATE/CURB INLET
GT	GRATED TROUGH

NOTE:
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231	MO
DISTRICT	SHEET NO.
SL	155
COUNTY	
ST. LOUIS	
JOB NO.	
J6S3631	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

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DRAWN	SMC	12/2024
REVIEWED	DJK	12/2024

UTILITY LEGEND

——OE——	OVERHEAD UTILITY POWER
——UE——	BURIED UTILITY POWER
——UT——	BURIED TELEPHONE CABLE
—— W ——	WATER UTILITY
—— G ——	GAS UTILITY
—— S ——	SANITARY SEWER
——SS——	STORM SEWER
————	COMBINED STORM SANITARY SEWER
——FO——	FIBER OPTIC
===: A :===	WATER MAIN (ABANDONED)
———	WATER MAIN (NEW)

PAVEMENT LEGEND

	PROPOSED SIDEWALK
	COLDMILLING BITUMINOUS PAVEMENT
	FULL DEPTH PAVEMENT, REMOVE AND REPLACE
	DRIVEWAY, REMOVE AND REPLACE
	ADA RAMP

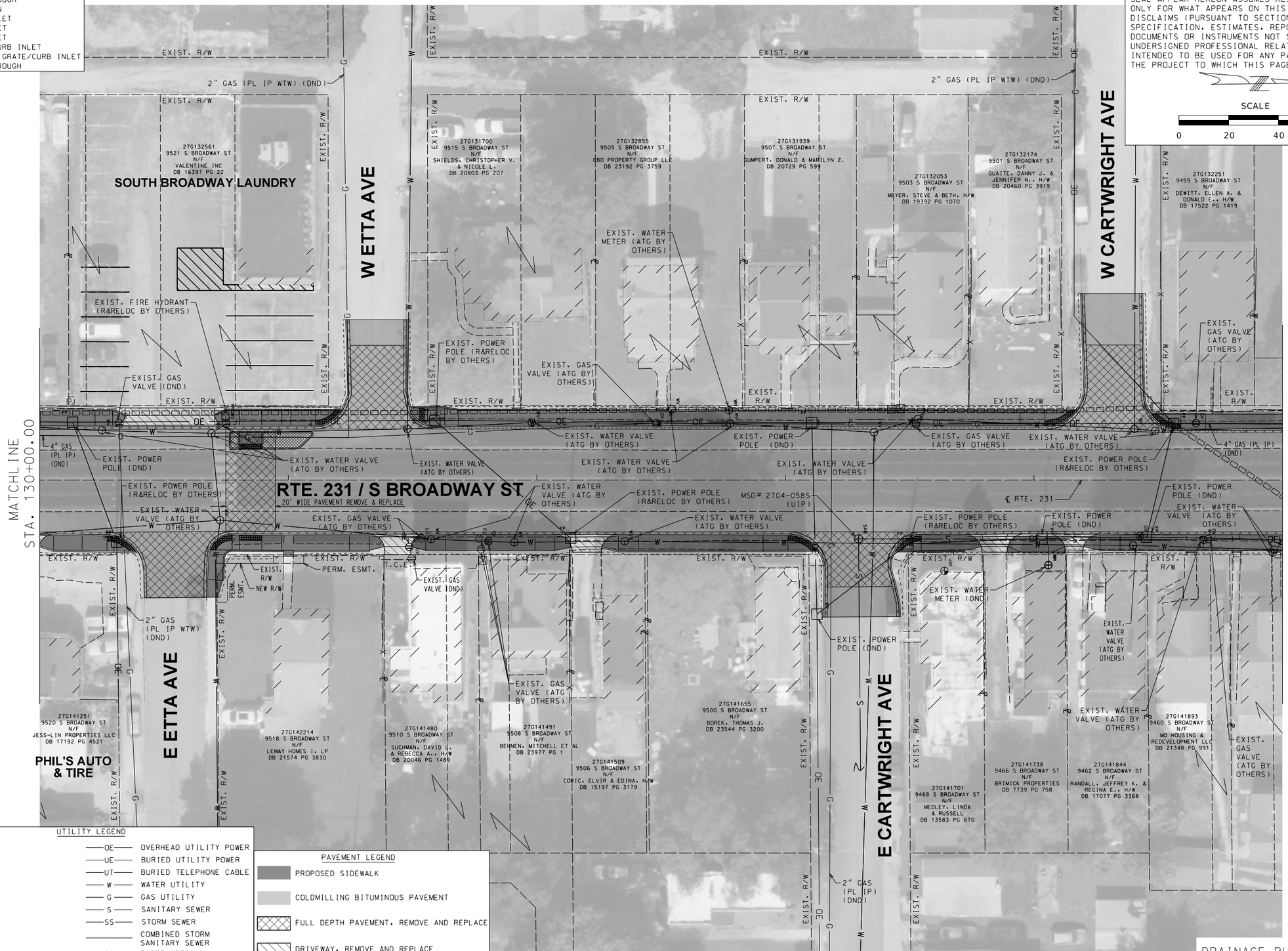
MSD BASEMAP NUMBERS	MSD PROJECT NUMBER
29H1	24-MSD-00480

DRAINAGE PLAN SHEETS
SHEET 23 OF 31

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UTILITY LEGEND	
SS	STORM SEWER
PT	PASS THROUGH
PD	PASS DOWN
GI	GRATE INLET
CI	CURB INLET
AI	AREA INLET
DCI	DOUBLE CURB INLET
CGCI	COMBINED GRATE/CURB INLET
GT	GRATED TROUGH

NOTE:
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UTILITY LEGEND	
OE	OVERHEAD UTILITY POWER
UE	BURIED UTILITY POWER
UT	BURIED TELEPHONE CABLE
W	WATER UTILITY
G	GAS UTILITY
S	SANITARY SEWER
SS	STORM SEWER
	COMBINED STORM SANITARY SEWER
FO	FIBER OPTIC
A	WATER MAIN (ABANDONED)
	WATER MAIN (NEW)

PAVEMENT LEGEND	
	PROPOSED SIDEWALK
	COLDMILLING BITUMINOUS PAVEMENT
	FULL DEPTH PAVEMENT, REMOVE AND REPLACE
	DRIVEWAY, REMOVE AND REPLACE
	ADA RAMP

LAYOUT	CWW	12/2024
DRAWN	SMC	12/2024
REVIEWED	DJK	12/2024

MSD BASEMAP NUMBERS: 29H1

MSD PROJECT NUMBER: 24-MSD-00480

DRAINAGE PLAN SHEETS
SHEET 24 OF 31

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SCALE
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STATE OF MISSOURI
DENNIS J KOSCIELSKI
NUMBER PE-2005000712
PROFESSIONAL ENGINEER

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DATE PREPARED	
7/17/2025	
ROUTE	STATE
231	MO
DISTRICT	SHEET NO.
SL	156
COUNTY	
ST. LOUIS	
JOB NO.	
J6S3631	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

DATE	DESCRIPTION

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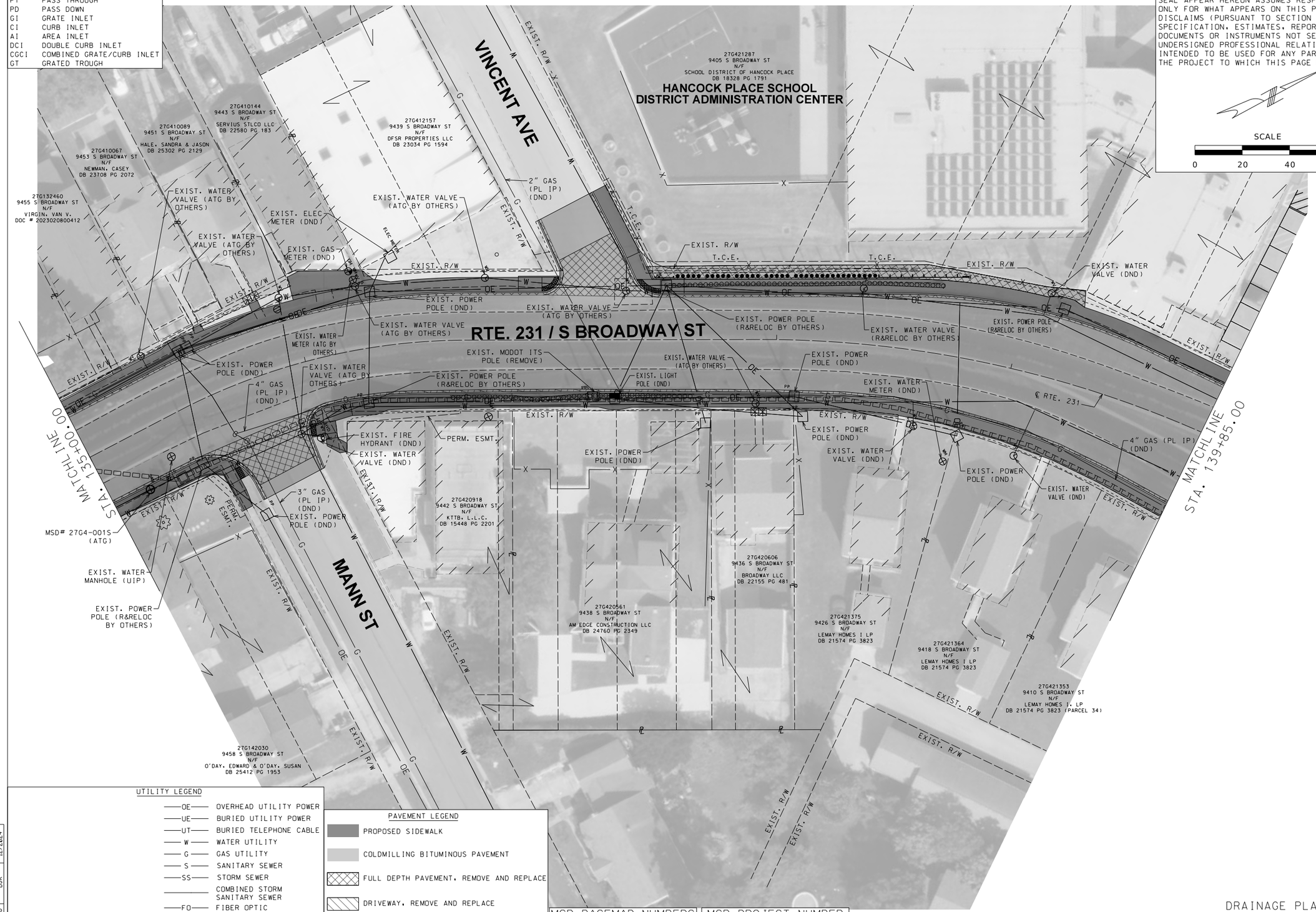
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UTILITY LEGEND	
SS	STORM SEWER
PT	PASS THROUGH
PD	PASS DOWN
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CI	CURB INLET
AI	AREA INLET
DCI	DOUBLE CURB INLET
CGCI	COMBINED GRATE/CURB INLET
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SCALE
0 20 40 60



UTILITY LEGEND	
OE	OVERHEAD UTILITY POWER
UE	BURIED UTILITY POWER
UT	BURIED TELEPHONE CABLE
W	WATER UTILITY
G	GAS UTILITY
S	SANITARY SEWER
SS	STORM SEWER
	COMBINED STORM SANITARY SEWER
FO	FIBER OPTIC
A	WATER MAIN (ABANDONED)
	WATER MAIN (NEW)

PAVEMENT LEGEND	
	PROPOSED SIDEWALK
	COLDMILLING BITUMINOUS PAVEMENT
	FULL DEPTH PAVEMENT, REMOVE AND REPLACE
	DRIVEWAY, REMOVE AND REPLACE
	ADA RAMP

LAYOUT	CWW	12/2024
DRAWN	SMC	12/2024
REVIEWED	DJK	12/2024

MSD BASEMAP NUMBERS	MSD PROJECT NUMBER
29H1	24-MSD-00480

DRAINAGE PLAN SHEETS
SHEET 25 OF 31

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STATE OF MISSOURI
DENNIS J KOSCIELSKI
NUMBER PE-2005000712
PROFESSIONAL ENGINEER

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DATE PREPARED
7/17/2025

ROUTE	STATE
231	MO
DISTRICT	SHEET NO.
SL	157

COUNTY
ST. LOUIS

JOB NO.
J6S3631

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DATE	DESCRIPTION

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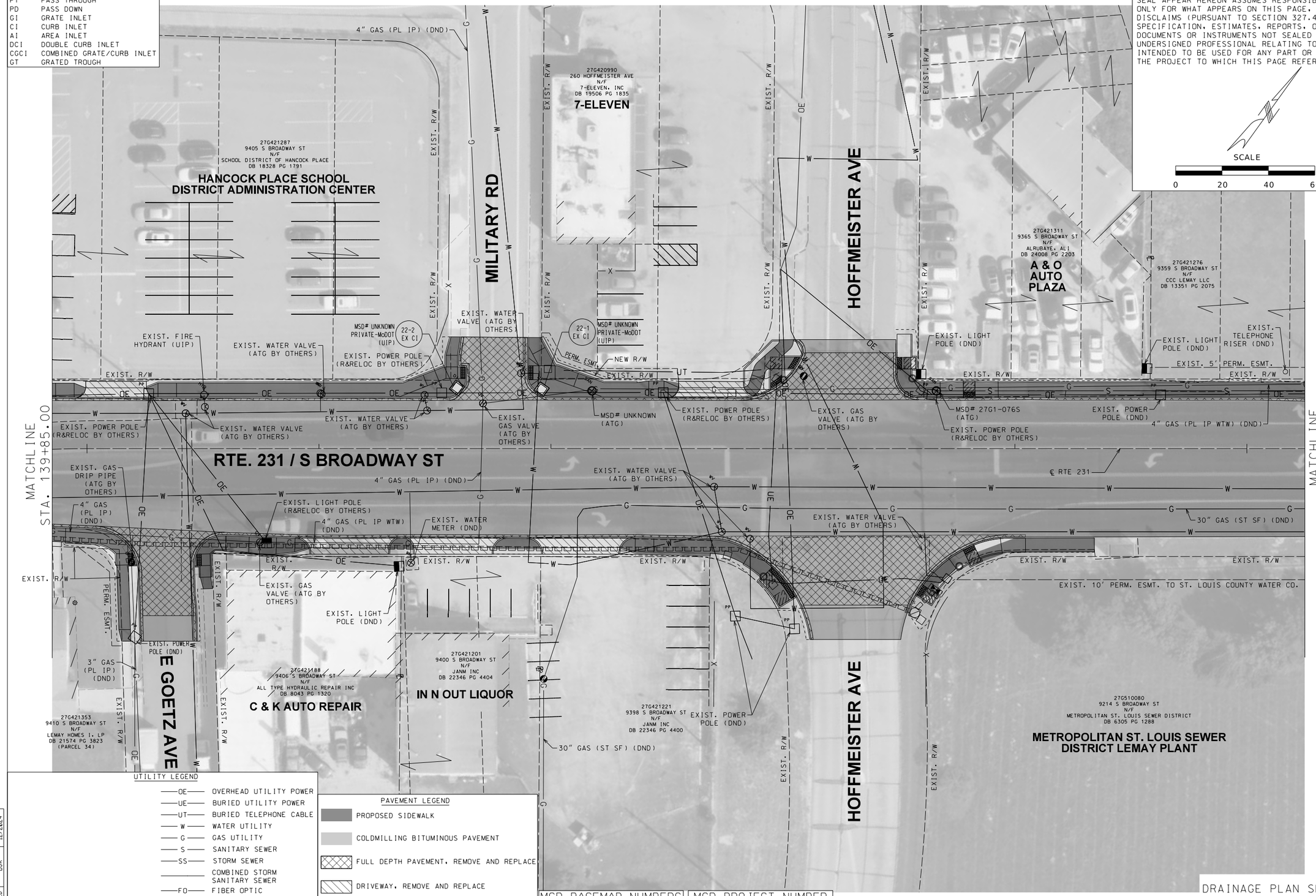
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UTILITY LEGEND	
SS	STORM SEWER
PT	PASS THROUGH
PD	PASS DOWN
GI	GRATE INLET
CI	CURB INLET
AI	AREA INLET
DCI	DOUBLE CURB INLET
CGCI	COMBINED GRATE/CURB INLET
GT	GRATED TROUGH

NOTE:
ALL EXISTING FIBER OPTIC IN THE CORRIDOR IS OWNED AND OPERATED BY OTHER ENTITIES.

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SCALE
0 20 40 60



UTILITY LEGEND	
OE	OVERHEAD UTILITY POWER
UE	BURIED UTILITY POWER
UT	BURIED TELEPHONE CABLE
W	WATER UTILITY
G	GAS UTILITY
S	SANITARY SEWER
SS	STORM SEWER
	COMBINED STORM SANITARY SEWER
FO	FIBER OPTIC
A	WATER MAIN (ABANDONED)
	WATER MAIN (NEW)

PAVEMENT LEGEND	
	PROPOSED SIDEWALK
	COLDMILLING BITUMINOUS PAVEMENT
	FULL DEPTH PAVEMENT, REMOVE AND REPLACE
	DRIVEWAY, REMOVE AND REPLACE
	ADA RAMP

LAYOUT	CWW	12/2024
DRAWN	SMC	12/2024
REVIEWED	DJK	12/2024

MSD BASEMAP NUMBERS: 29H1

MSD PROJECT NUMBER: 24-MSD-00480

DRAINAGE PLAN SHEETS
SHEET 26 OF 31

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STATE OF MISSOURI
DENNIS J KOSCIELSKI
NUMBER PE-2005000712
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED	
7/17/2025	
ROUTE	STATE
231	MO
DISTRICT	SHEET NO.
SL	158

COUNTY: ST. LOUIS
JOB NO.: J6S3631
CONTRACT ID.:
PROJECT NO.:
BRIDGE NO.:

DESCRIPTION	DATE

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

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UTILITY LEGEND	
SS	STORM SEWER
PT	PASS THROUGH
PD	PASS DOWN
GI	GRATE INLET
CI	CURB INLET
AI	AREA INLET
DCI	DOUBLE CURB INLET
CGCI	COMBINED GRATE/CURB INLET
GT	GRATED TROUGH

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SCALE
0 20 40 60

27G421276
9359 S BROADWAY ST
N/F
CCC LEMAY LLC
DB 13351 PG 2075

27G421265
9353 S BROADWAY ST
N/F
CCC LEMAY LLC
DB 13351 PG 2075

27G421111
9331 S BROADWAY ST
N/F
DISTRIBUTORS INVESTMENT COMPANY
DB 22778 PG 4239

MSP DIESEL SOLUTIONS

27G421122
9327 S BROADWAY ST
N/F
DISTRIBUTORS INVESTMENT COMPANY
DB 22778 PG 4239

27G420853
9311 S BROADWAY ST
N/F
SPIRIT ENERGY, LLC
DB 14390 PG 1471

CIRCLE K

MATCHLINE
STA. 145+25.00

EXIST. 5' PERM ESMT.
4" GAS (PL IP WTW) (DND)
EXIST. 5' PERM ESMT.
EXIST. 5' X 10' PERM. ESMT. TO LACLEDE GAS CO.
EXIST. GAS VALVE (DND)
EXIST. R/W
EXIST. R/W
EXIST. R/W
EXIST. R/W
4" PL IP WTW
EXIST. POWER POLE (DND)
MSD# 27G1-073S (UIP)
EXIST. POWER POLE (DND)
EXIST. POWER POLE (DND)
MSD# 27G1-072S (ATG)
EXIST. POWER POLE (DND)

RTE. 231 / S BROADWAY ST

℄ RTE. 231
30" GAS (ST SF) (DND)
EXIST. R/W
EXIST. R/W
EXIST. 10' PERM. ESMT. TO ST. LOUIS COUNTY WATER CO.
EXIST. 10' PERM. ESMT. TO ST. LOUIS COUNTY WATER CO.

MATCHLINE
STA. 150+25.00

27G510080
9214 S BROADWAY ST
N/F
METROPOLITAN ST. LOUIS SEWER DISTRICT
DB 6305 PG 1288

METROPOLITAN ST. LOUIS SEWER DISTRICT LEMAY PLANT

UTILITY LEGEND	
OE	OVERHEAD UTILITY POWER
UE	BURIED UTILITY POWER
UT	BURIED TELEPHONE CABLE
W	WATER UTILITY
G	GAS UTILITY
S	SANITARY SEWER
SS	STORM SEWER
	COMBINED STORM SANITARY SEWER
FO	FIBER OPTIC
A	WATER MAIN (ABANDONED)
	WATER MAIN (NEW)

PAVEMENT LEGEND	
	PROPOSED SIDEWALK
	COLDMILLING BITUMINOUS PAVEMENT
	FULL DEPTH PAVEMENT, REMOVE AND REPLACE
	DRIVEWAY, REMOVE AND REPLACE
	ADA RAMP

LAYOUT	CWW	12/2024
DRAWN	SMC	12/2024
REVIEWED	DJK	12/2024

MSD BASEMAP NUMBERS	MSD PROJECT NUMBER
29H1	24-MSD-00480

DRAINAGE PLAN SHEETS
SHEET 27 OF 31

I:\22jobs\22H0100\CAD\Road\Sheet\159_DS_27_J6S3631_I20.dgn

STATE OF MISSOURI
DENNIS J KOSCIELSKI
NUMBER PE-2005000712
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED
7/17/2025

ROUTE	STATE
231	MO
DISTRICT	SHEET NO.
SL	159

COUNTY
ST. LOUIS

JOB NO.
J6S3631

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION	DATE

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MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
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JEFFERSON CITY, MO 65102
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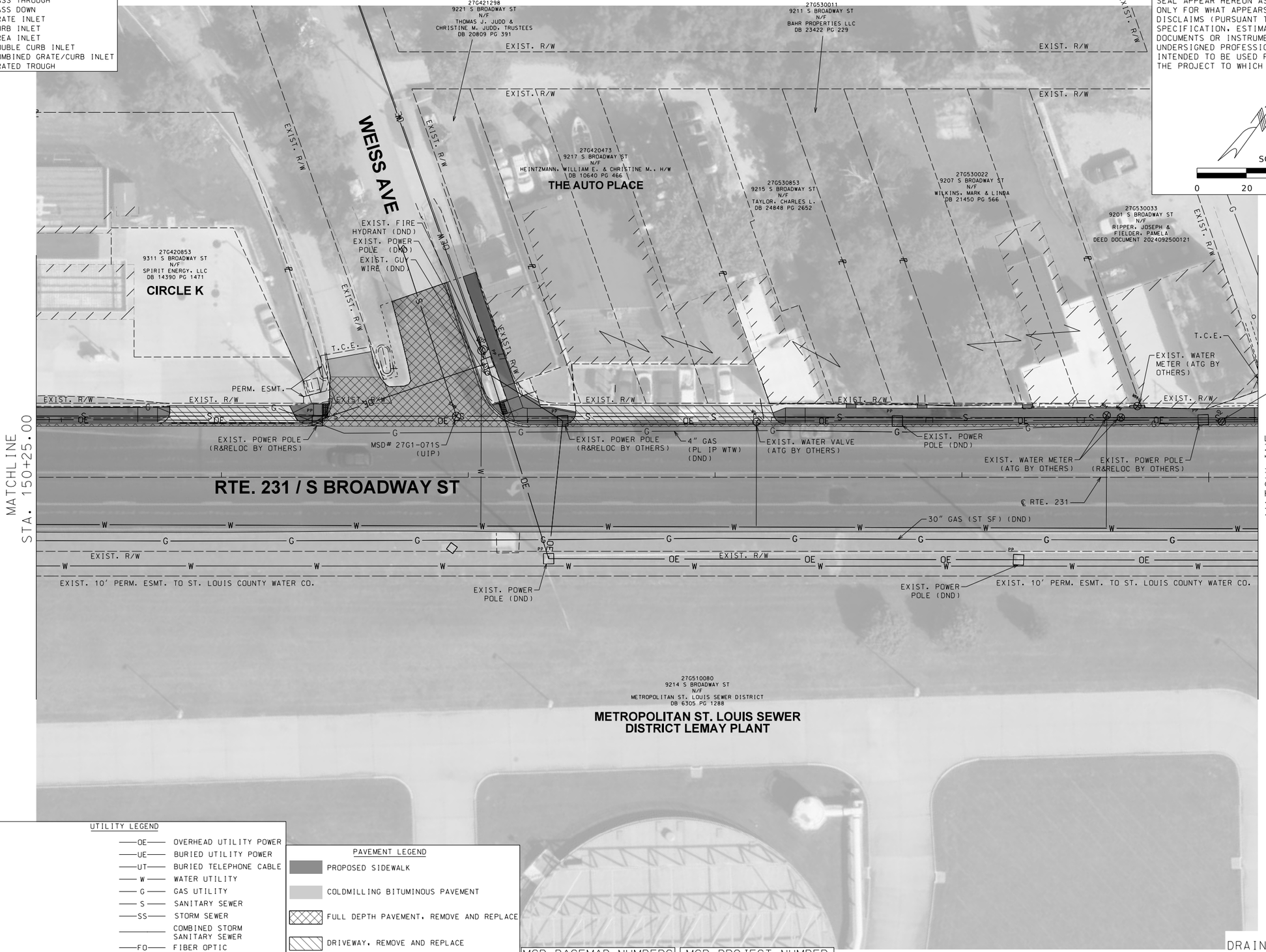
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UTILITY LEGEND	
SS	STORM SEWER
PT	PASS THROUGH
PD	PASS DOWN
GI	GRATE INLET
CI	CURB INLET
AI	AREA INLET
DCI	DOUBLE CURB INLET
CGCI	COMBINED GRATE/CURB INLET
GT	GRATED TROUGH

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SCALE
0 20 40 60



UTILITY LEGEND

——OE——	OVERHEAD UTILITY POWER
——UE——	BURIED UTILITY POWER
——UT——	BURIED TELEPHONE CABLE
—— W ——	WATER UTILITY
—— G ——	GAS UTILITY
—— S ——	SANITARY SEWER
——SS——	STORM SEWER
————	COMBINED STORM SANITARY SEWER
——FO——	FIBER OPTIC
===: A :===	WATER MAIN (ABANDONED)
———	WATER MAIN (NEW)

PAVEMENT LEGEND

	PROPOSED SIDEWALK
	COLDMILLING BITUMINOUS PAVEMENT
	FULL DEPTH PAVEMENT, REMOVE AND REPLACE
	DRIVEWAY, REMOVE AND REPLACE
	ADA RAMP

LAYOUT	CWW	12/2024
DRAWN	SMC	12/2024
REVIEWED	DJK	12/2024

MSD BASEMAP NUMBERS	MSD PROJECT NUMBER
29H1	24-MSD-00480

DRAINAGE PLAN SHEETS
SHEET 28 OF 31

STATE OF MISSOURI
DENNIS J KOSCIELSKI
NUMBER PE-2005000712
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED
7/17/2025

ROUTE	STATE
231	MO
DISTRICT	SHEET NO.
SL	160

COUNTY
ST. LOUIS

JOB NO.
J6S3631

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION	DATE

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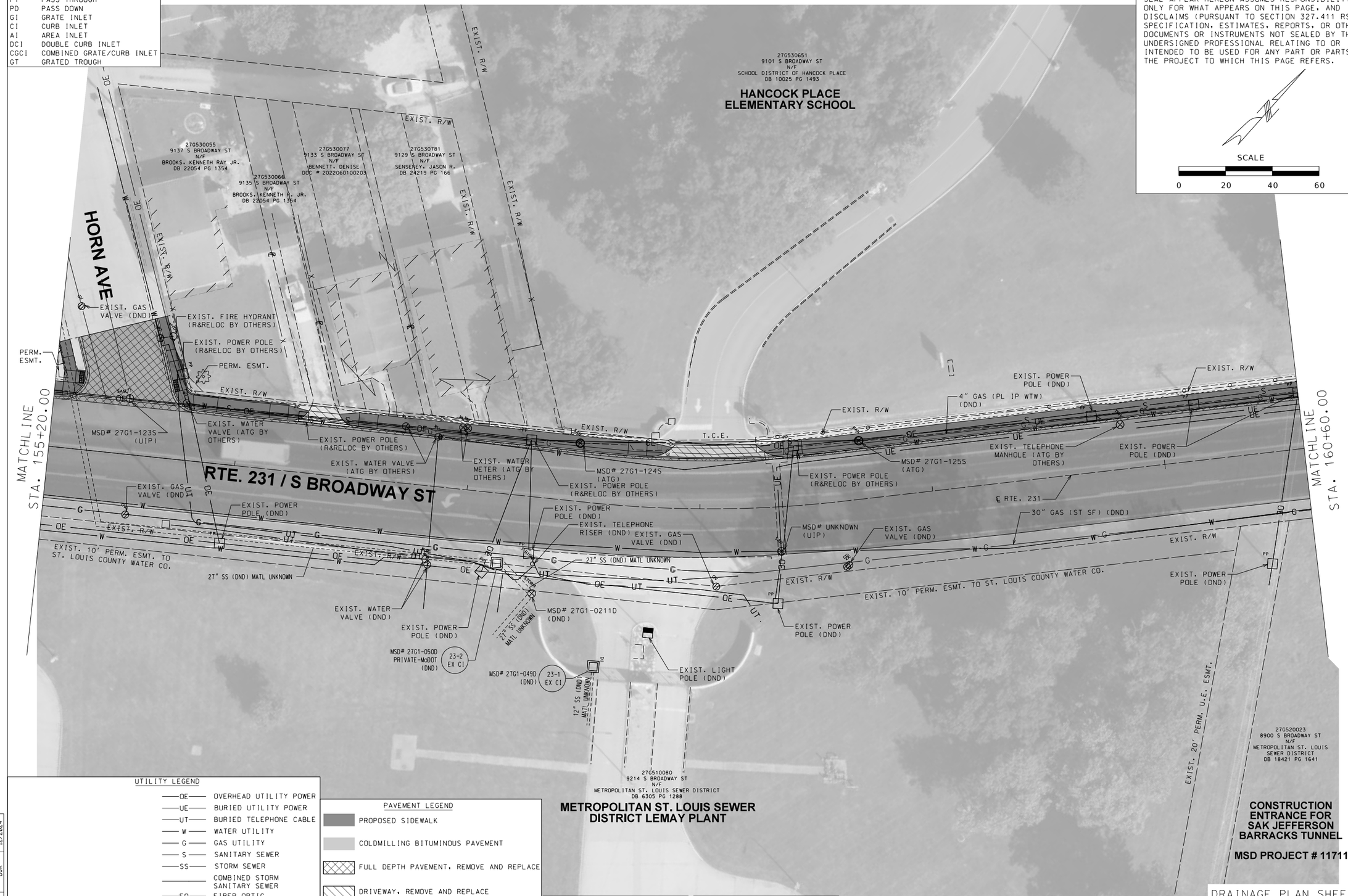
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UTILITY LEGEND	
SS	STORM SEWER
PT	PASS THROUGH
PD	PASS DOWN
GI	GRATE INLET
CI	CURB INLET
AI	AREA INLET
DCI	DOUBLE CURB INLET
CGCI	COMBINED GRATE/CURB INLET
GT	GRATED TROUGH

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SCALE
0 20 40 60



UTILITY LEGEND	
OE	OVERHEAD UTILITY POWER
UE	BURIED UTILITY POWER
UT	BURIED TELEPHONE CABLE
W	WATER UTILITY
G	GAS UTILITY
S	SANITARY SEWER
SS	STORM SEWER
	COMBINED STORM SANITARY SEWER
FO	FIBER OPTIC
A	WATER MAIN (ABANDONED)
	WATER MAIN (NEW)

PAVEMENT LEGEND	
	PROPOSED SIDEWALK
	COLDMILLING BITUMINOUS PAVEMENT
	FULL DEPTH PAVEMENT, REMOVE AND REPLACE
	DRIVEWAY, REMOVE AND REPLACE
	ADA RAMP

LAYOUT	CWW	12/2024
DRAWN	SMC	12/2024
REVIEWED	DJK	12/2024

MSD BASEMAP NUMBERS	MSD PROJECT NUMBER
29H1	24-MSD-00480

DRAINAGE PLAN SHEETS
SHEET 29 OF 31

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STATE OF MISSOURI
DENNIS J KOSCIELSKI
NUMBER PE-2005000712
PROFESSIONAL ENGINEER

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DATE PREPARED	
7/17/2025	
ROUTE	STATE
231	MO
DISTRICT	SHEET NO.
SL	161
COUNTY	
ST. LOUIS	
JOB NO.	
J6S3631	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

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UTILITY LEGEND	
SS	STORM SEWER
PT	PASS THROUGH
PD	PASS DOWN
GI	GRATE INLET
CI	CURB INLET
AI	AREA INLET
DCI	DOUBLE CURB INLET
CGCI	COMBINED GRATE/CURB INLET
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SCALE
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DENNIS J KOSCIELSKI
NUMBER PE-2005000712
PROFESSIONAL ENGINEER

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DATE PREPARED	
7/17/2025	
ROUTE	STATE
231	MO
DISTRICT	SHEET NO.
SL	162
COUNTY	
ST. LOUIS	
JOB NO.	
J6S3631	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

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LAYOUT	CWW	12/2024
DRAWN	SMC	12/2024
REVIEWED	DJK	12/2024

UTILITY LEGEND	
——OE——	OVERHEAD UTILITY POWER
——UE——	BURIED UTILITY POWER
——UT——	BURIED TELEPHONE CABLE
—— W ——	WATER UTILITY
—— G ——	GAS UTILITY
—— S ——	SANITARY SEWER
——SS——	STORM SEWER
————	COMBINED STORM SANITARY SEWER
——FO——	FIBER OPTIC
===: A :===	WATER MAIN (ABANDONED)
———	WATER MAIN (NEW)

PAVEMENT LEGEND	
	PROPOSED SIDEWALK
	COLDMILLING BITUMINOUS PAVEMENT
	FULL DEPTH PAVEMENT, REMOVE AND REPLACE
	DRIVEWAY, REMOVE AND REPLACE
	ADA RAMP

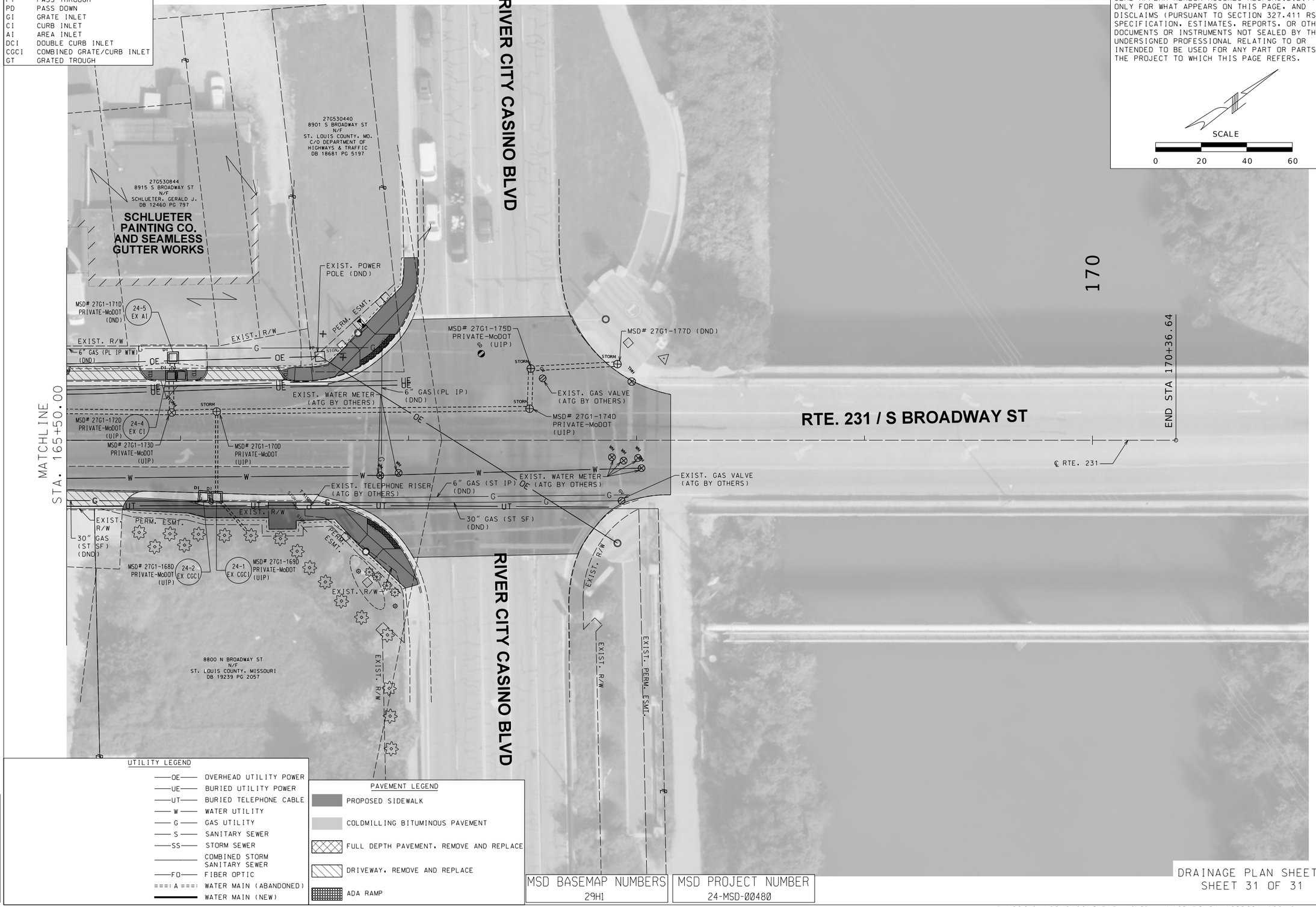
MSD BASEMAP NUMBERS	MSD PROJECT NUMBER
29H1	24-MSD-00480

DRAINAGE PLAN SHEETS
SHEET 30 OF 31

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UTILITY LEGEND	
SS	STORM SEWER
PT	PASS THROUGH
PD	PASS DOWN
GI	GRATE INLET
CI	CURB INLET
AI	AREA INLET
DCI	DOUBLE CURB INLET
CGCI	COMBINED GRATE/CURB INLET
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SCALE
0 20 40 60

UTILITY LEGEND	
OE	OVERHEAD UTILITY POWER
UE	BURIED UTILITY POWER
UT	BURIED TELEPHONE CABLE
W	WATER UTILITY
G	GAS UTILITY
S	SANITARY SEWER
SS	STORM SEWER
	COMBINED STORM SANITARY SEWER
FO	FIBER OPTIC
A	WATER MAIN (ABANDONED)
	WATER MAIN (NEW)

PAVEMENT LEGEND	
	PROPOSED SIDEWALK
	COLDMILLING BITUMINOUS PAVEMENT
	FULL DEPTH PAVEMENT, REMOVE AND REPLACE
	DRIVEWAY, REMOVE AND REPLACE
	ADA RAMP

LAYOUT	CWW	12/2024
DRAWN	SMC	12/2024
REVIEWED	DJK	12/2024

MSD BASEMAP NUMBERS
29H1

MSD PROJECT NUMBER
24-MSD-00480

DRAINAGE PLAN SHEETS
SHEET 31 OF 31

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STATE OF MISSOURI
DENNIS J KOSCIELSKI
NUMBER PE-2005000712
PROFESSIONAL ENGINEER

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DATE PREPARED
7/17/2025

ROUTE	STATE
231	MO
DISTRICT	SHEET NO.
SL	163

COUNTY
ST. LOUIS

JOB NO.
J6S3631

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION	DATE

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LEGEND

▨ CLASS 3 EXCAVATION

▨ GRANULAR BACKFILL

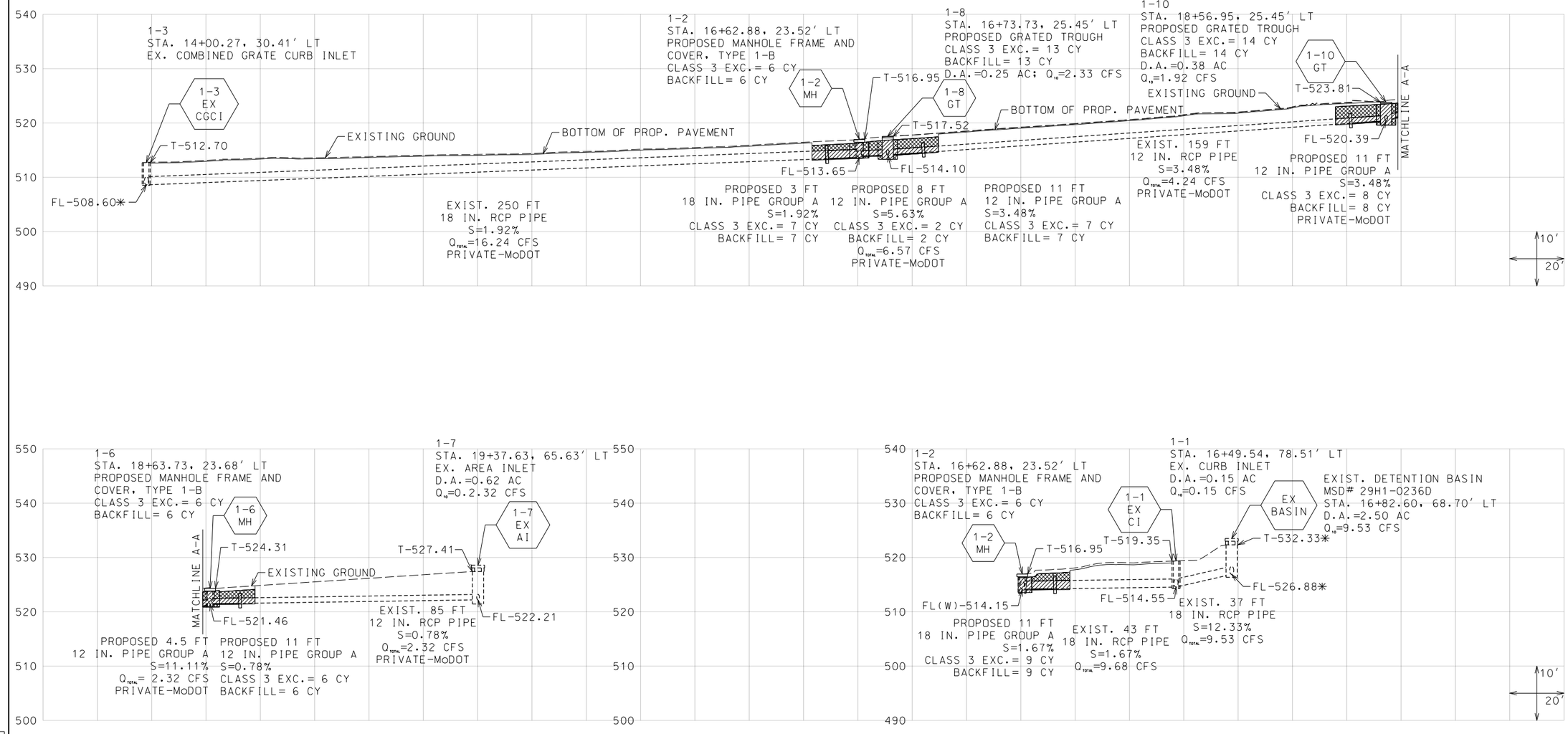
NOTES:
1. UNLESS OTHERWISE LABELED, PROP. GROUND TO MATCH EXIST. GROUND.
2. GRANULAR BACKFILL IS CONSIDERED INCIDENTAL AND QUANTIFIED FOR INFORMATION PURPOSES ONLY.
3. ALL PROPOSED PIPES & STRUCTURES ON THIS PLAN SHALL BE "PRIVATE" AND MAINTAINED BY MoDOT.

SEWERS AT GRADES OF 1% OR LESS:
FOR SEWER PIPE (STORM, SANITARY AND COMBINED) WITH A DESIGN GRADE LESS THAN ONE PERCENT (1%), VERIFICATION OF THE PIPE GRADE WILL BE REQUIRED FOR EACH INSTALLATION REACH OF SEWER. PRIOR TO ANY SURFACE RESTORATION OR INSTALLATION OF ANY SURFACE IMPROVEMENTS. THE CONTRACTOR'S FIELD SUPERVISOR WILL BE REQUIRED TO PROVIDE DAILY DOCUMENTATION VERIFYING THAT THE AS-BUILT PIPE GRADE MEETS THE DESIGN GRADE THROUGH THE SUBMITTAL OF SIGNED CUT SHEETS TO THE MSD INSPECTOR UPON REQUEST.

REMOVE REPLACE OR REHAB NOTE:
THE REMOVAL AND REPLACEMENT, OR REHABILITATION OF THE EXISING STRUCTURE WILL BE DETERMINED BY THE MSD FIELD INSPECTOR. IF THE STRUCTURE IS DETERMINED TO REMAIN IN PLACE, THEN THE TOP SHALL BE ADJUSTED TO GRADE, IF NEEDED.

PARTIAL REMOVAL OR CONVERSION OF A STRUCTURE:
THE PARTIAL REMOVAL, REPLACEMENT, AND CONVERSION OF THE EXISTING STRUCTURE(S) WILL BE DETERMINED BY THE MSD FIELD INSPECTOR. IF THE STRUCTURE IS DETERMINED TO REMAIN IN PLACE, AND THE TOP SECTION CAN BE CONVERTED AS PROPOSED, AND STILL MEET MSD STANDARDS THEN CONVERT AND ADJUST TO GRADE. OTHERWISE THE ENTIRE STRUCTURE WILL BE REMOVED AND REPLACED WITH A NEW STRUCTURE.

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*STRUCTURE INFORMATION WAS NOT AVAILABLE, STRUCTURE TOPS AND DEPTHS ARE ESTIMATED FROM MSD CONTOURS

MSD BASEMAP NUMBERS	MSD PROJECT NUMBER
29H1	24-MSD-00480

PIPE PROFILE SHEETS
SHEET 1 OF 9

LAYOUT	CWW	12/2024
DRAWN	SMC	12/2024
REVIEWED	DJK	12/2024

STATE OF MISSOURI
DENNIS J KOSCIELSKI
NUMBER PE-2005000712
PROFESSIONAL ENGINEER

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DATE PREPARED: 7/25/2025

ROUTE	STATE
231	MO
DISTRICT	SHEET NO.
SL	164

COUNTY: ST. LOUIS
JOB NO.: J6S3631
CONTRACT ID.:
PROJECT NO.:
BRIDGE NO.:

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LEGEND

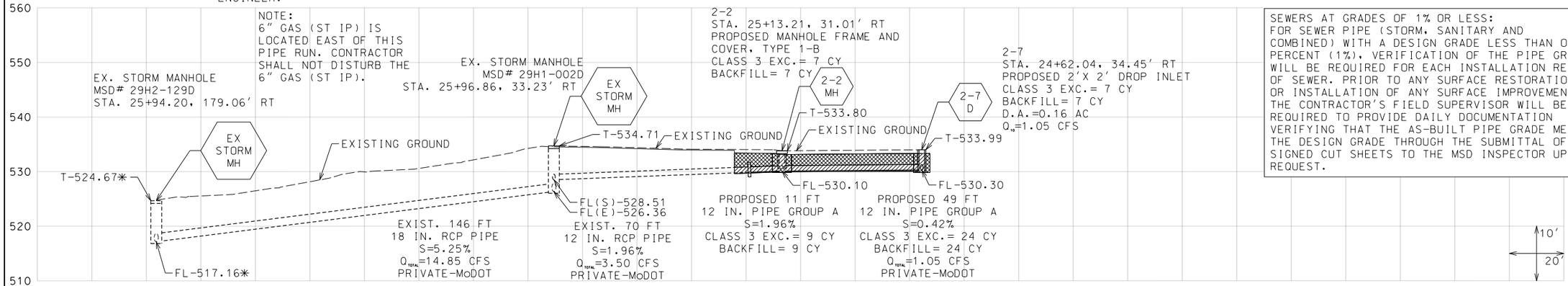
CLASS 3 EXCAVATION

GRANULAR BACKFILL

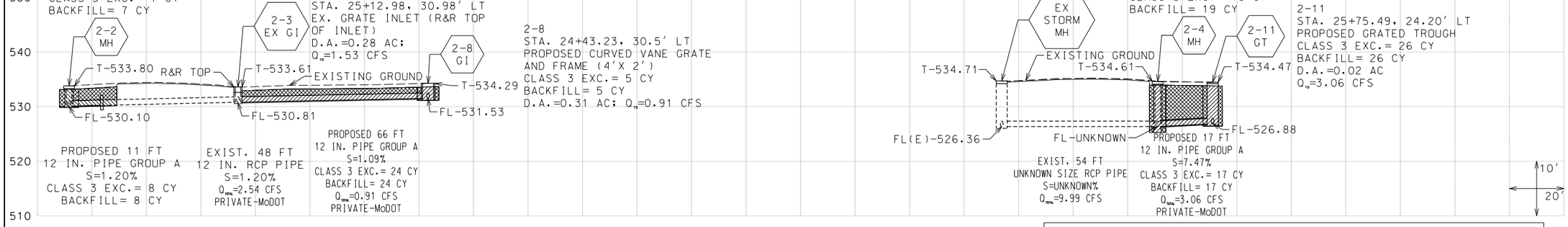
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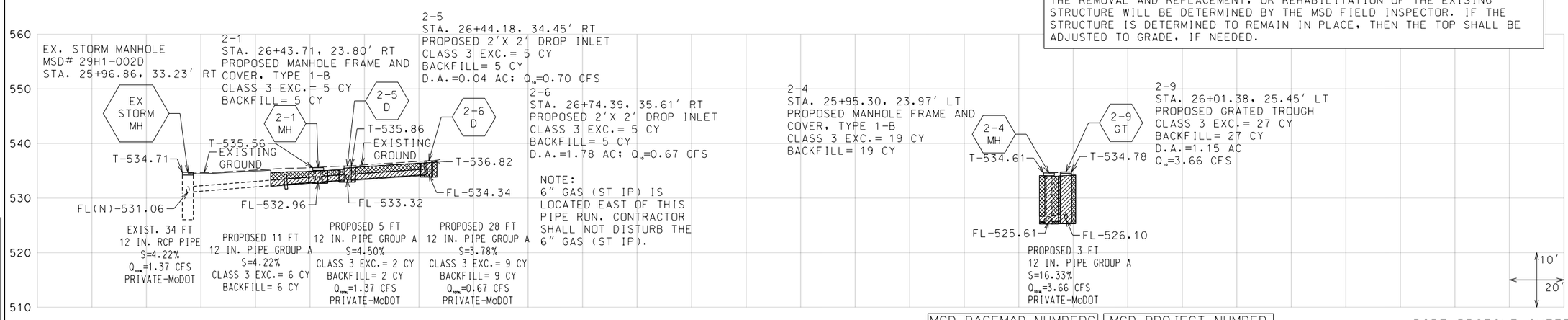
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LAYOUT	CWW	12/2024
DRAWN	SMC	12/2024
REVIEWED	DJK	12/2024

MSD BASEMAP NUMBERS	MSD PROJECT NUMBER
29H1	24-MSD-00480

PIPE PROFILE SHEETS
SHEET 2 OF 9

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STATE OF MISSOURI
DENNIS J KOSCIELSKI
NUMBER PE-2005000712
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED	
7/25/2025	
ROUTE	STATE
231	MO
DISTRICT	SHEET NO.
SL	165
COUNTY	
ST. LOUIS	
JOB NO.	
J6S3631	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

DESCRIPTION	DATE

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LEGEND

▨ CLASS 3 EXCAVATION

▨ GRANULAR BACKFILL

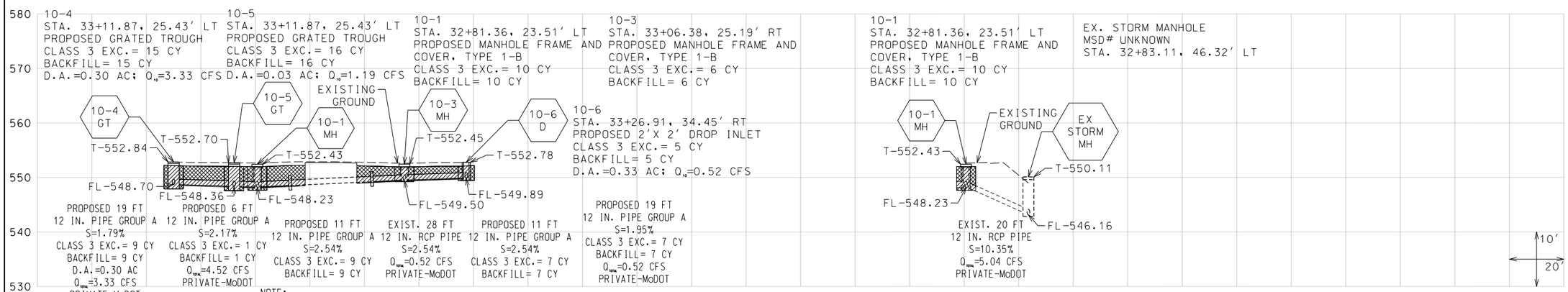
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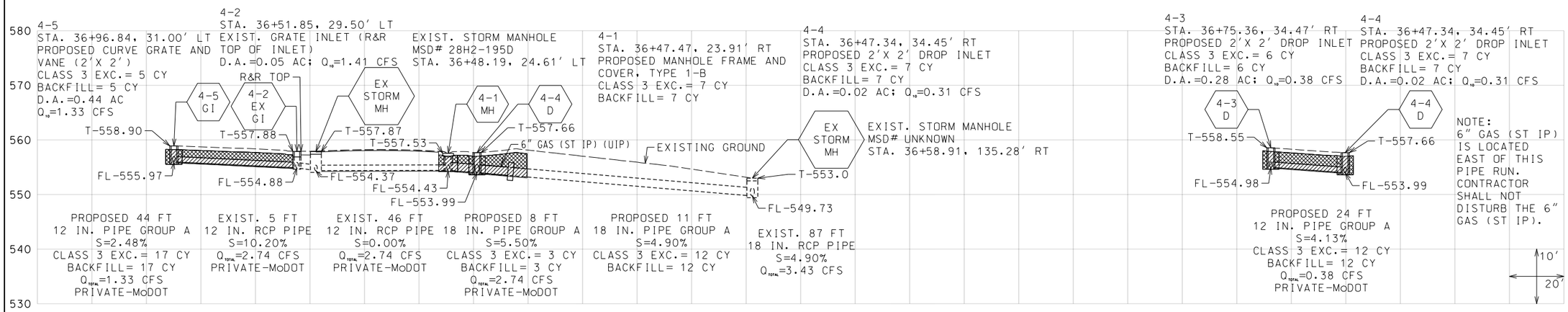
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LAYOUT	CWW	12/2024
DRAWN	SMC	12/2024
REVIEWED	DJK	12/2024

MSD BASEMAP NUMBERS	MSD PROJECT NUMBER
29H1	24-MSD-00480

PIPE PROFILE SHEETS
SHEET 3 OF 9

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STATE OF MISSOURI
DENNIS J KOSCIELSKI
NUMBER PE-2005000712
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED
7/25/2025

ROUTE	STATE
231	MO
DISTRICT	SHEET NO.
SL	166

COUNTY
ST. LOUIS

JOB NO.
J6S3631

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

NO.	DESCRIPTION	DATE

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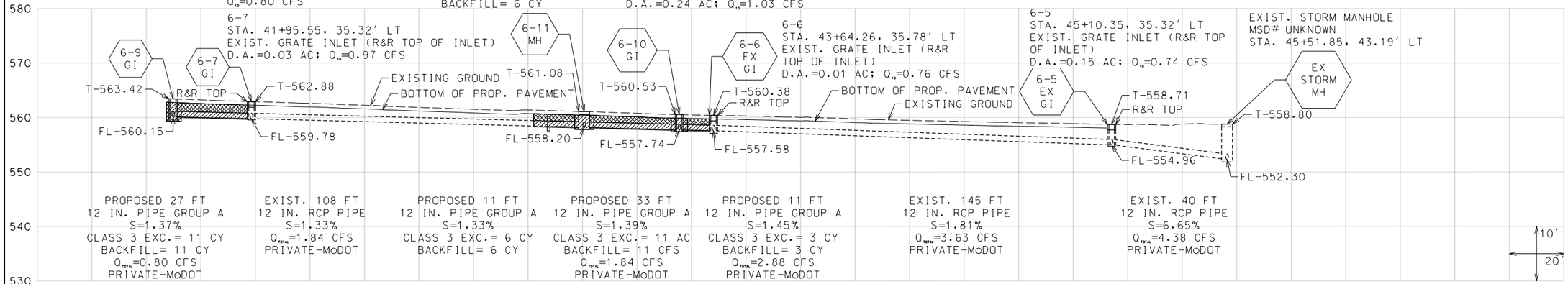
LEGEND

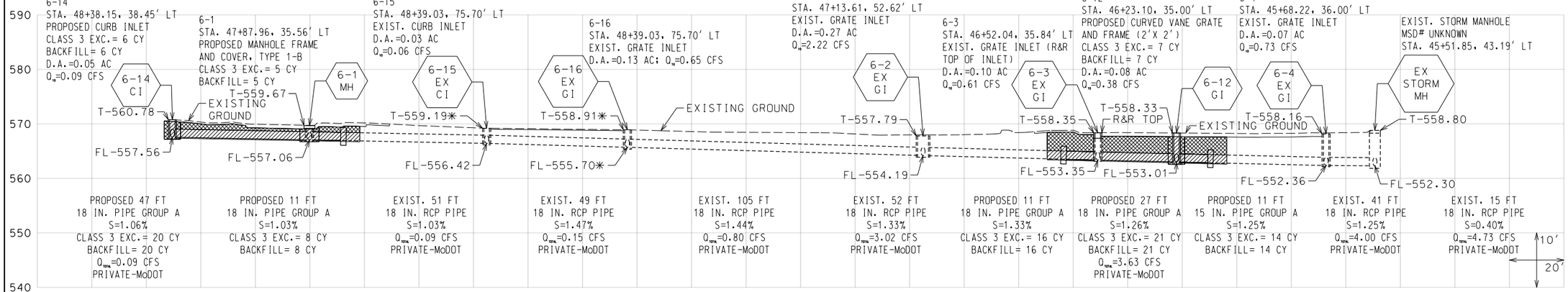
CLASS 3 EXCAVATION

GRANULAR BACKFILL

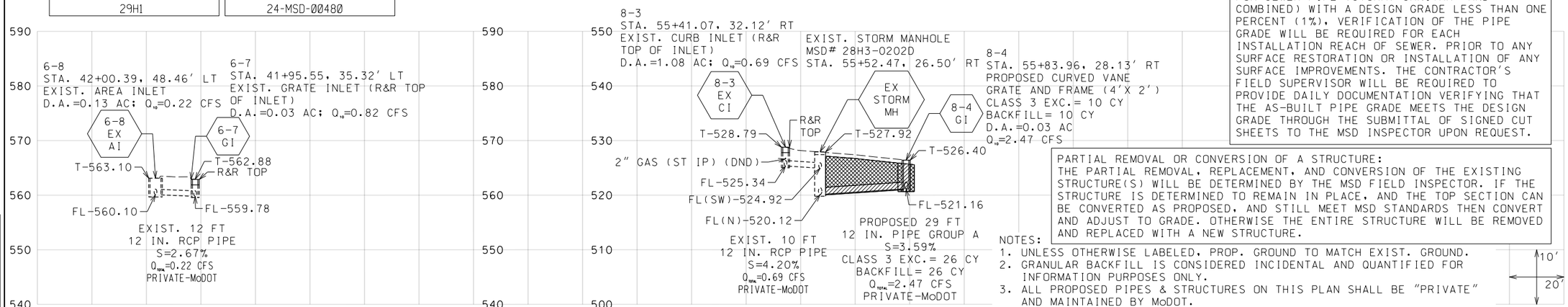
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PIPE PROFILE SHEETS
SHEET 4 OF 9

LAYOUT	CWW	12/2024
DRAWN	SMC	12/2024
REVIEWED	DJK	12/2024

STATE OF MISSOURI
DENNIS J KOSCIELSKI
NUMBER PE-2005000712
PROFESSIONAL ENGINEER

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DATE PREPARED
7/25/2025

ROUTE	STATE
231	MO
DISTRICT	SHEET NO.
SL	167

COUNTY
ST. LOUIS

JOB NO.
J6S3631

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION

DATE

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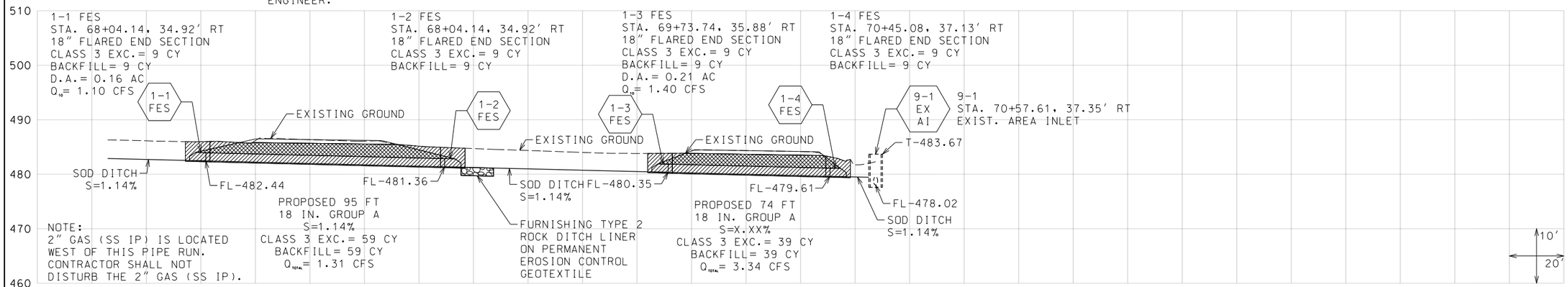
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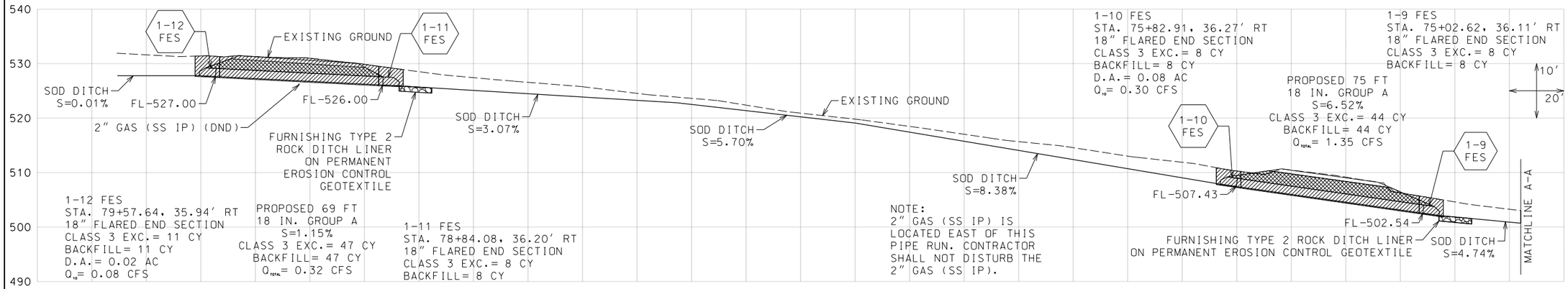
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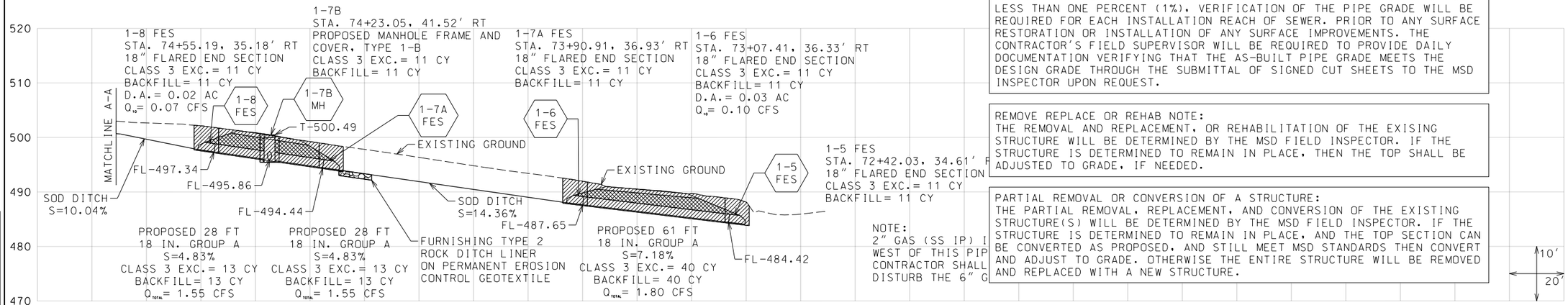
LEGEND
- CLASS 3 EXCAVATION
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LAYOUT	CWW	12/2024
DRAWN	SMC	12/2024
REVIEWED	DJK	12/2024

MSD BASEMAP NUMBERS	MSD PROJECT NUMBER
29H1	24-MSD-00480

PIPE PROFILE SHEETS
SHEET 5 OF 9

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STATE OF MISSOURI
DENNIS J KOSCIELSKI
NUMBER PE-2005000712
PROFESSIONAL ENGINEER

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DATE PREPARED 7/25/2025
ROUTE 231 | STATE MO
DISTRICT SL | SHEET NO. 168
COUNTY ST. LOUIS
JOB NO. J6S3631
CONTRACT ID.
PROJECT NO.
BRIDGE NO.

DESCRIPTION	DATE

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LEGEND

▨ CLASS 3 EXCAVATION

▨ GRANULAR BACKFILL

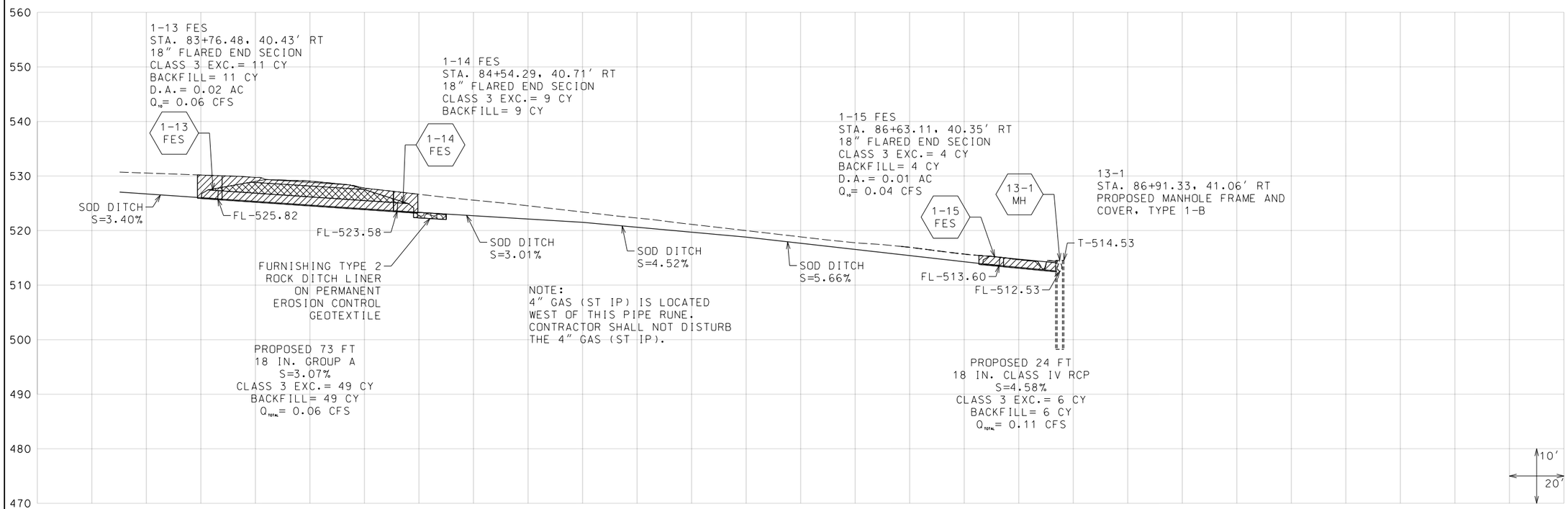
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29H1	24-MSD-00480

PIPE PROFILE SHEETS
SHEET 6 OF 9

STATE OF MISSOURI
DENNIS J KOSCIELSKI
NUMBER PE-2005000712
PROFESSIONAL ENGINEER

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DATE PREPARED
7/25/2025

ROUTE	STATE
231	MO
DISTRICT	SHEET NO.
SL	169

COUNTY
ST. LOUIS

JOB NO.
J6S3631

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION	DATE

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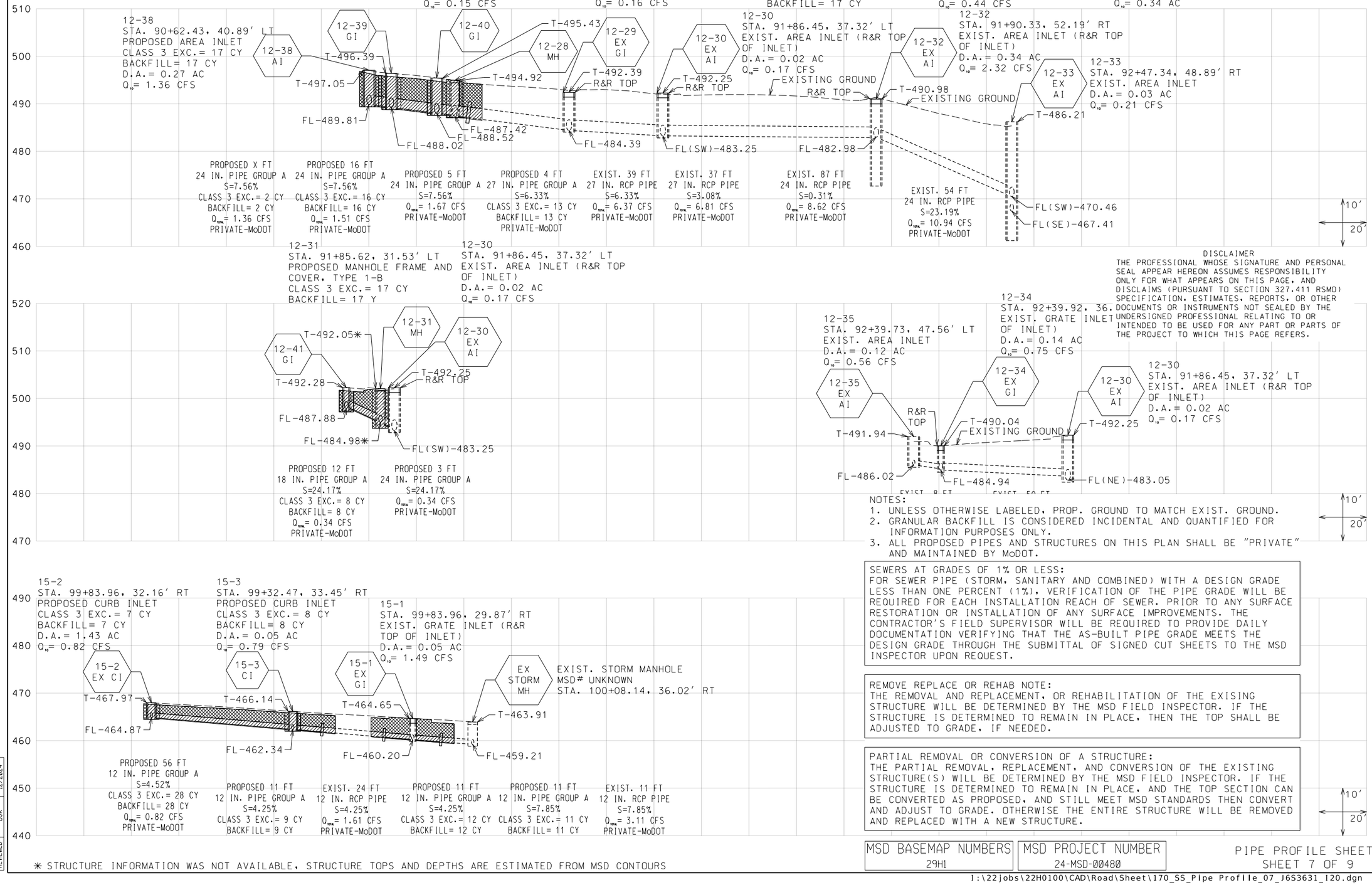
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LEGEND
CLASS 3 EXCAVATION
GRANULAR BACKFILL



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29H1	24-MSD-00480

PIPE PROFILE SHEETS
SHEET 7 OF 9

LAYOUT	CWW	12/2024
DRAWN	SMC	12/2024
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231	MO
DISTRICT	SHEET NO.
SL	170

COUNTY: ST. LOUIS
JOB NO.: J6S3631
CONTRACT ID.:
PROJECT NO.:
BRIDGE NO.:

DESCRIPTION
DATE

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LEGEND

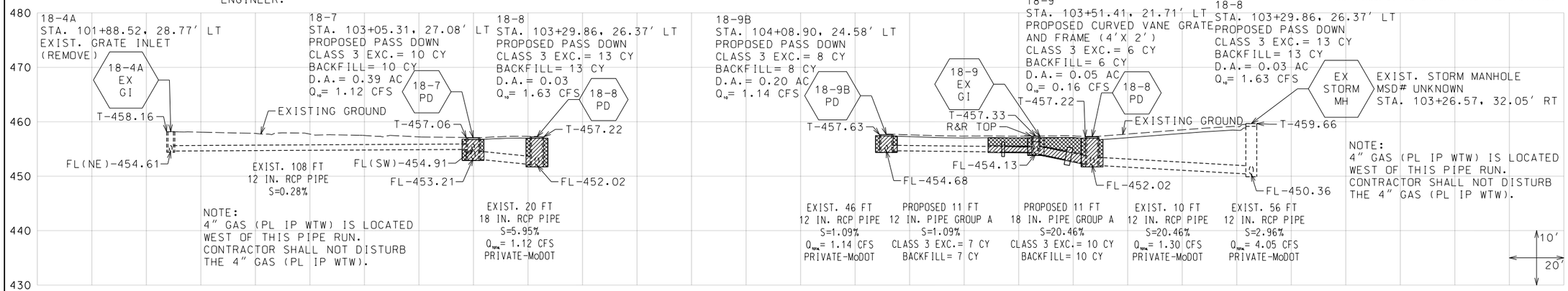
CLASS 3 EXCAVATION

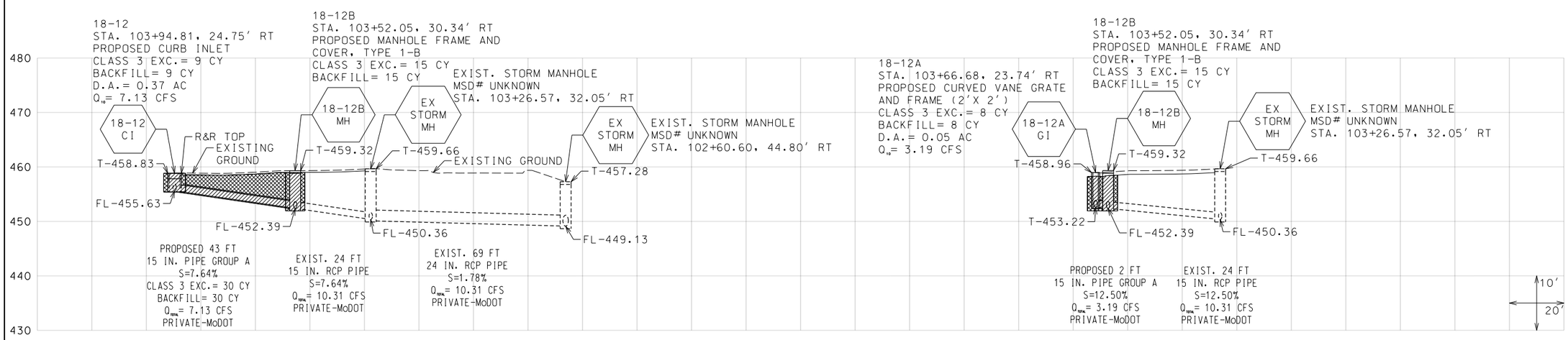
GRANULAR BACKFILL

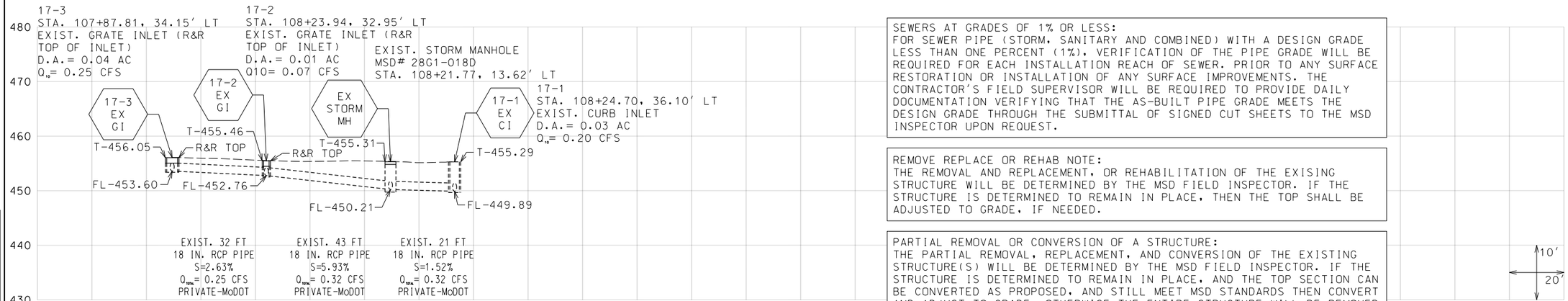
NOTES:
1. UNLESS OTHERWISE LABELED, PROP. GROUND TO MATCH EXIST. GROUND.
2. GRANULAR BACKFILL IS CONSIDERED INCIDENTAL AND QUANTIFIED FOR INFORMATION PURPOSES ONLY.
3. ALL PROPOSED PIPES & STRUCTURES ON THIS PLAN SHALL BE "PRIVATE" AND MAINTAINED BY MoDOT.
4. GAS LINE LOCATION & DEPTH UNKNOWN. CONTRACTOR TO FIELD VERIFY PRIOR TO CONSTRUCTION. ADJUST PIPE LOCATION AS DIRECTED BY THE ENGINEER.

MSD BASEMAP NUMBERS	MSD PROJECT NUMBER
29H1	24-MSD-00480

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SEWERS AT GRADES OF 1% OR LESS:
FOR SEWER PIPE (STORM, SANITARY AND COMBINED) WITH A DESIGN GRADE LESS THAN ONE PERCENT (1%), VERIFICATION OF THE PIPE GRADE WILL BE REQUIRED FOR EACH INSTALLATION REACH OF SEWER. PRIOR TO ANY SURFACE RESTORATION OR INSTALLATION OF ANY SURFACE IMPROVEMENTS. THE CONTRACTOR'S FIELD SUPERVISOR WILL BE REQUIRED TO PROVIDE DAILY DOCUMENTATION VERIFYING THAT THE AS-BUILT PIPE GRADE MEETS THE DESIGN GRADE THROUGH THE SUBMITTAL OF SIGNED CUT SHEETS TO THE MSD INSPECTOR UPON REQUEST.

REMOVE REPLACE OR REHAB NOTE:
THE REMOVAL AND REPLACEMENT, OR REHABILITATION OF THE EXISING STRUCTURE WILL BE DETERMINED BY THE MSD FIELD INSPECTOR. IF THE STRUCTURE IS DETERMINED TO REMAIN IN PLACE, THEN THE TOP SHALL BE ADJUSTED TO GRADE, IF NEEDED.

PARTIAL REMOVAL OR CONVERSION OF A STRUCTURE:
THE PARTIAL REMOVAL, REPLACEMENT, AND CONVERSION OF THE EXISTING STRUCTURE(S) WILL BE DETERMINED BY THE MSD FIELD INSPECTOR. IF THE STRUCTURE IS DETERMINED TO REMAIN IN PLACE, AND THE TOP SECTION CAN BE CONVERTED AS PROPOSED, AND STILL MEET MSD STANDARDS THEN CONVERT AND ADJUST TO GRADE. OTHERWISE THE ENTIRE STRUCTURE WILL BE REMOVED AND REPLACED WITH A NEW STRUCTURE.

PIPE PROFILE SHEETS
SHEET 8 OF 9

LAYOUT	CWW	12/2024
DRAWN	SMC	12/2024
REVIEWED	DJK	12/2024

STATE OF MISSOURI
DENNIS J KOSCIELSKI
NUMBER PE-2005000712
PROFESSIONAL ENGINEER

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DATE PREPARED
7/25/2025

ROUTE	STATE
231	MO
DISTRICT	SHEET NO.
SL	171

COUNTY
ST. LOUIS

JOB NO.
J6S3631

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION

DATE

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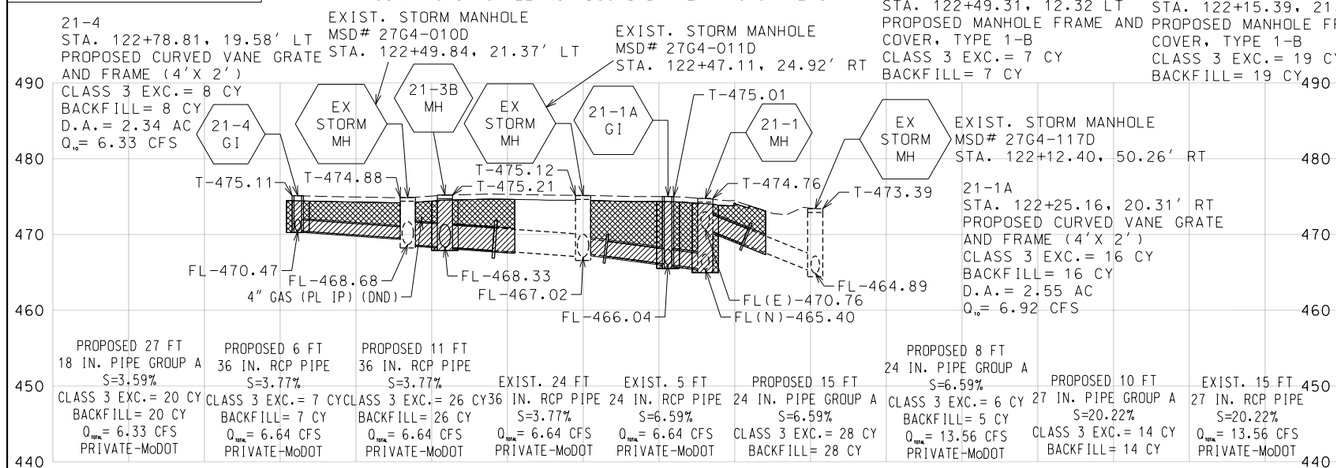
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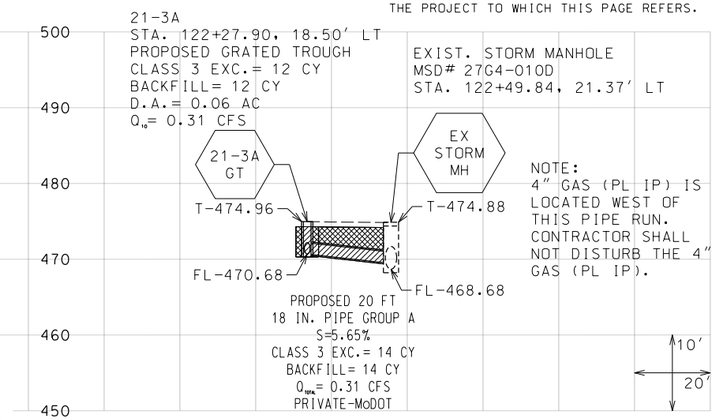
LEGEND

CLASS 3 EXCAVATION

GRANULAR BACKFILL

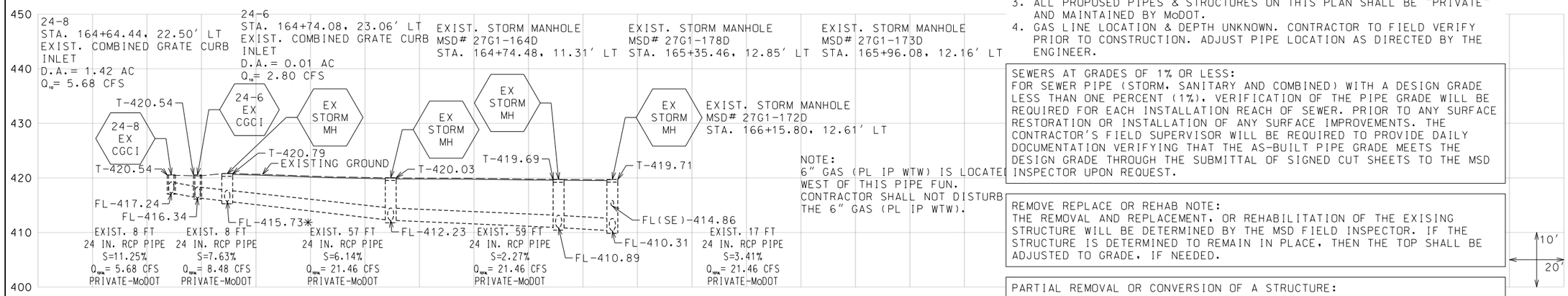
NOTE:
4" GAS (PL IP) IS LOCATED EAST OF THIS PIPE RUN. CONTRACTOR SHALL NOT DISTURB THE 4" GAS (PL IP).





NOTE:
4" GAS (PL IP) IS LOCATED WEST OF THIS PIPE RUN. CONTRACTOR SHALL NOT DISTURB THE 4" GAS (PL IP).

NOTES:
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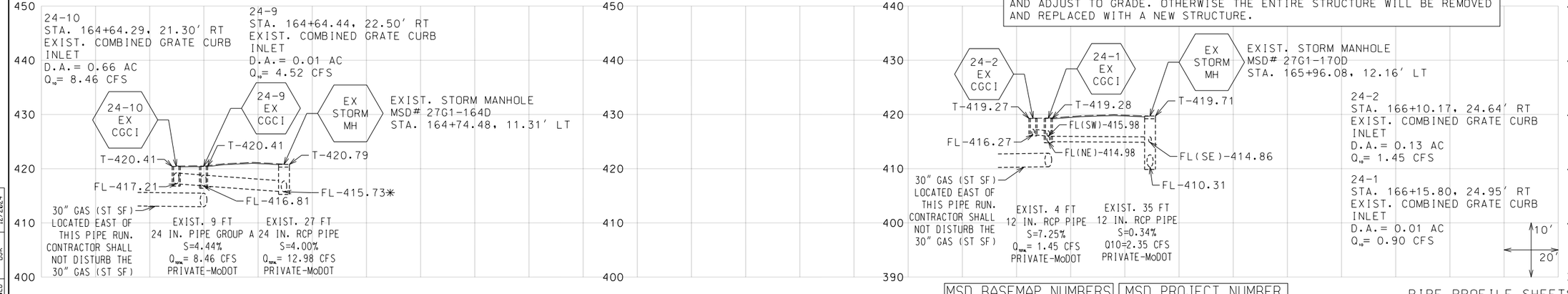


NOTE:
6" GAS (PL IP WTW) IS LOCATED WEST OF THIS PIPE FUN. CONTRACTOR SHALL NOT DISTURB THE 6" GAS (PL IP WTW).

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LAYOUT	CWW	12/2024
DRAWN	SMC	12/2024
REVIEWED	DJK	12/2024

MSD BASEMAP NUMBERS: 29H1

MSD PROJECT NUMBER: 24-MSD-00480

PIPE PROFILE SHEETS
SHEET 9 OF 9

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STATE OF MISSOURI
DENNIS J KOSCIELSKI
NUMBER PE-2005000712
PROFESSIONAL ENGINEER

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DATE PREPARED: 7/25/2025

ROUTE	STATE
231	MO
DISTRICT	SHEET NO.
SL	172

COUNTY: ST. LOUIS
JOB NO.: J6S3631
CONTRACT ID.:
PROJECT NO.:
BRIDGE NO.:

DESCRIPTION	DATE

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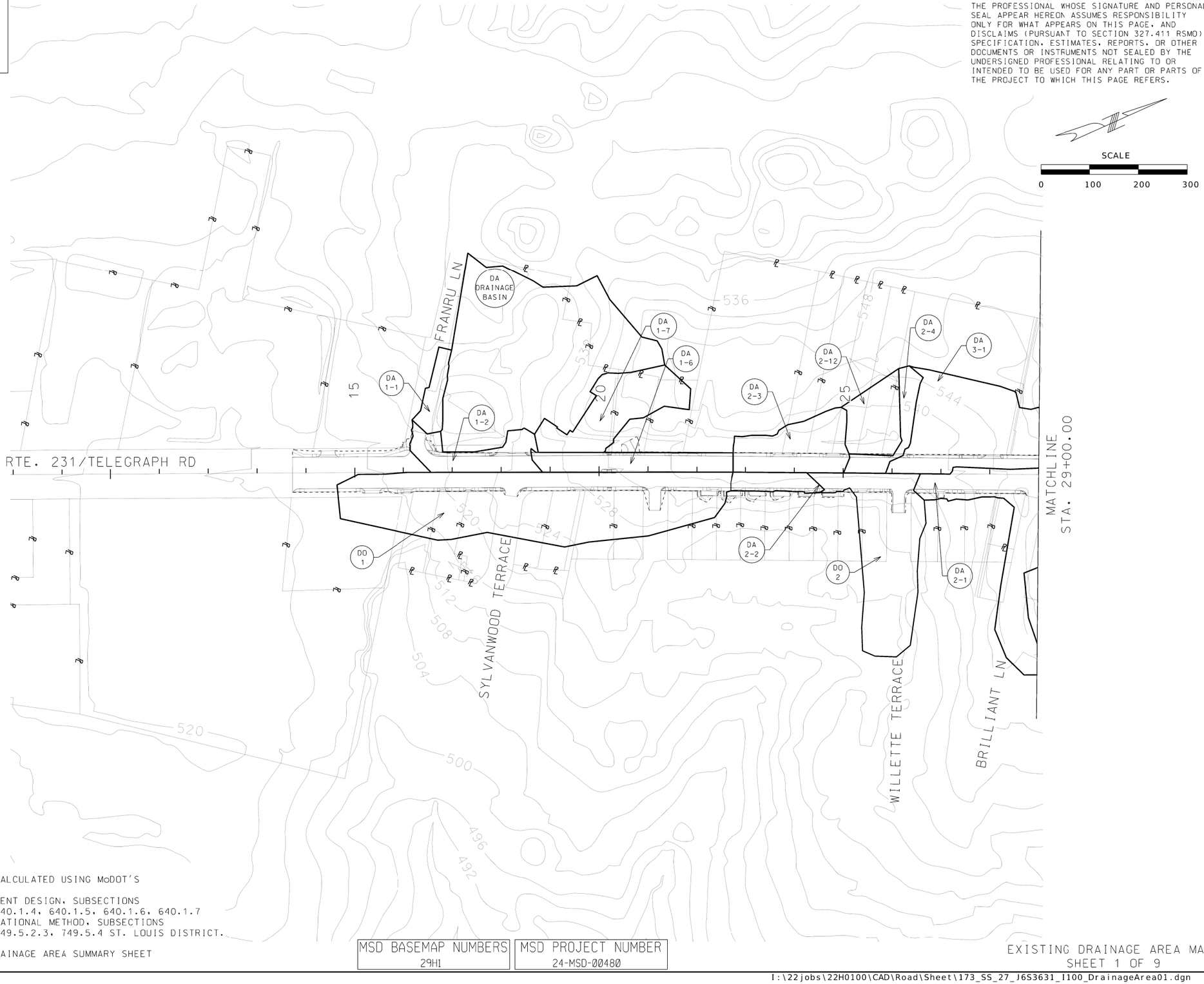
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LEGEND:

DA	DRAINAGE AREA
DO	DRAINAGE OFF AREAS
—XX—	EXISTING GROUND ELEVATION
———	DRAINAGE AREA BOUNDARIES



SCALE

0 100 200 300

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DRAINAGE AREA MAP NOTES:

1. FLOW QUANTITIES SHOWN WERE CALCULATED USING MoDOT'S ENGINEERING POLICY GUIDE
   - 1.1. SECTION 640.1-PAVEMENT DESIGN, SUBSECTIONS 640.1.2, 640.1.3, 640.1.4, 640.1.5, 640.1.6, 640.1.7
   - 1.2. SECTION 749.5-THE RATIONAL METHOD, SUBSECTIONS 749.5.1, 749.5.2, 749.5.2.3, 749.5.4 ST. LOUIS DISTRICT.
2. SEE EXISTING AND PROPOSED DRAINAGE AREA SUMMARY SHEET FOR THE FLOW QUANTITIES.

LAYOUT	CWW	12/2024
DRAWN	SMC	12/2024
REVIEWED	DJK	12/2024

MSD BASEMAP NUMBERS	MSD PROJECT NUMBER
29H1	24-MSD-00480

EXISTING DRAINAGE AREA MAPS
SHEET 1 OF 9

STATE OF MISSOURI
DENNIS J KOSCIELSKI
NUMBER PE-2005000712
PROFESSIONAL ENGINEER

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DATE PREPARED: 7/25/2025

ROUTE	STATE
231	MO
DISTRICT	SHEET NO.
SL	173

COUNTY: ST. LOUIS

JOB NO.: J6S3631

CONTRACT ID.:

PROJECT NO.:

BRIDGE NO.:

DESCRIPTION	DATE

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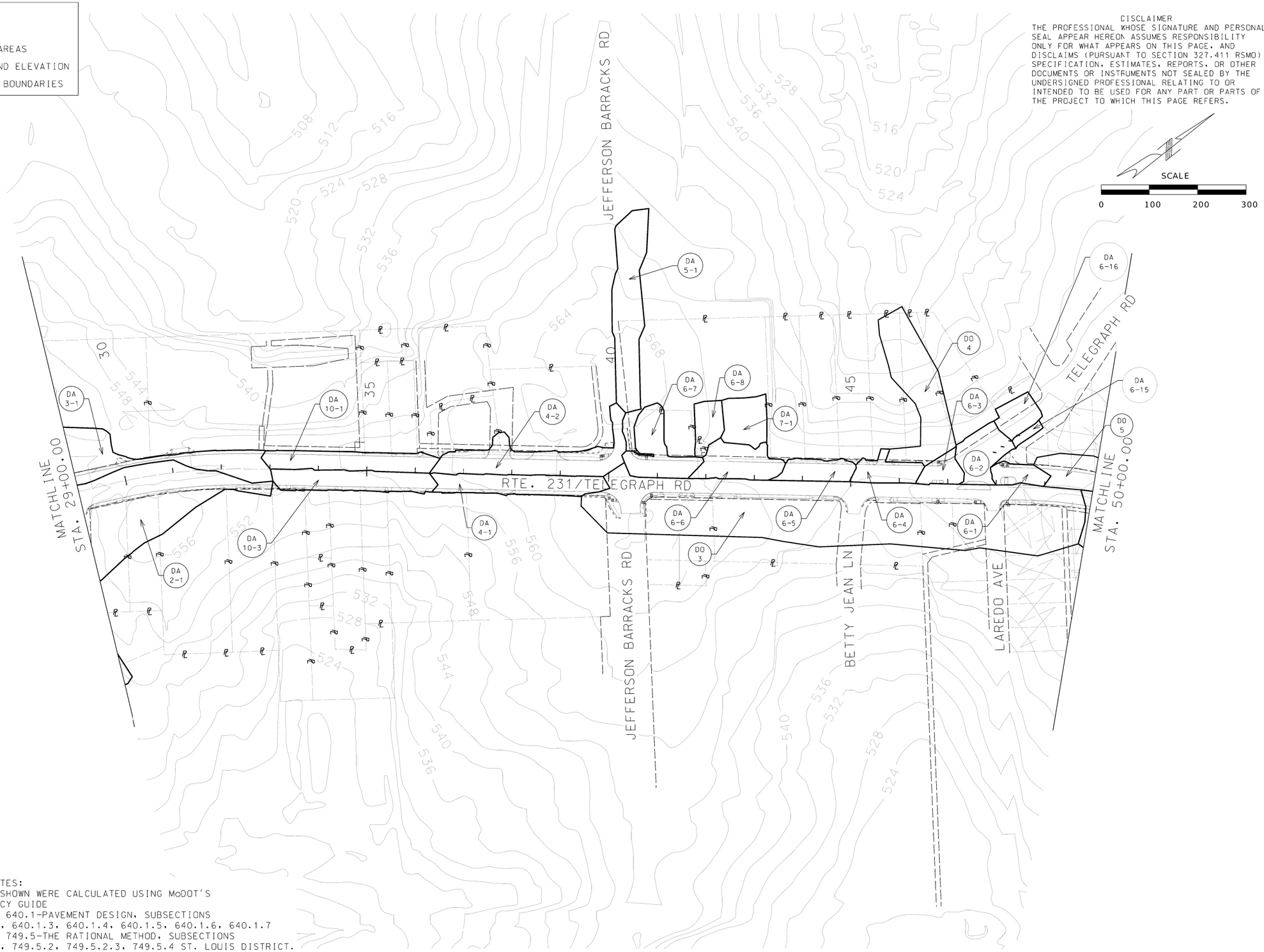
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LEGEND:

DA	DRAINAGE AREA
DO	DRAINAGE OFF AREAS
—XX—	EXISTING GROUND ELEVATION
———	DRAINAGE AREA BOUNDARIES

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   - 1.2. SECTION 749.5-THE RATIONAL METHOD, SUBSECTIONS 749.5.1, 749.5.2, 749.5.2.3, 749.5.4 ST. LOUIS DISTRICT.
2. SEE EXISTING AND PROPOSED DRAINAGE AREA SUMMARY SHEET FOR THE FLOW QUANTITIES.

LAYOUT	CWW	12/2024
DRAWN	SMC	12/2024
REVIEWED	DJK	12/2024

MSD BASEMAP NUMBERS	MSD PROJECT NUMBER
29H1	24-MSD-00480

EXISTING DRAINAGE AREA MAPS
SHEET 2 OF 9

STATE OF MISSOURI
DENNIS J KOSCIELSKI
NUMBER PE-2005000712
PROFESSIONAL ENGINEER

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ROUTE	STATE
231	MO
DISTRICT	SHEET NO.
SL	174

COUNTY
ST. LOUIS

JOB NO.
J6S3631

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION	DATE

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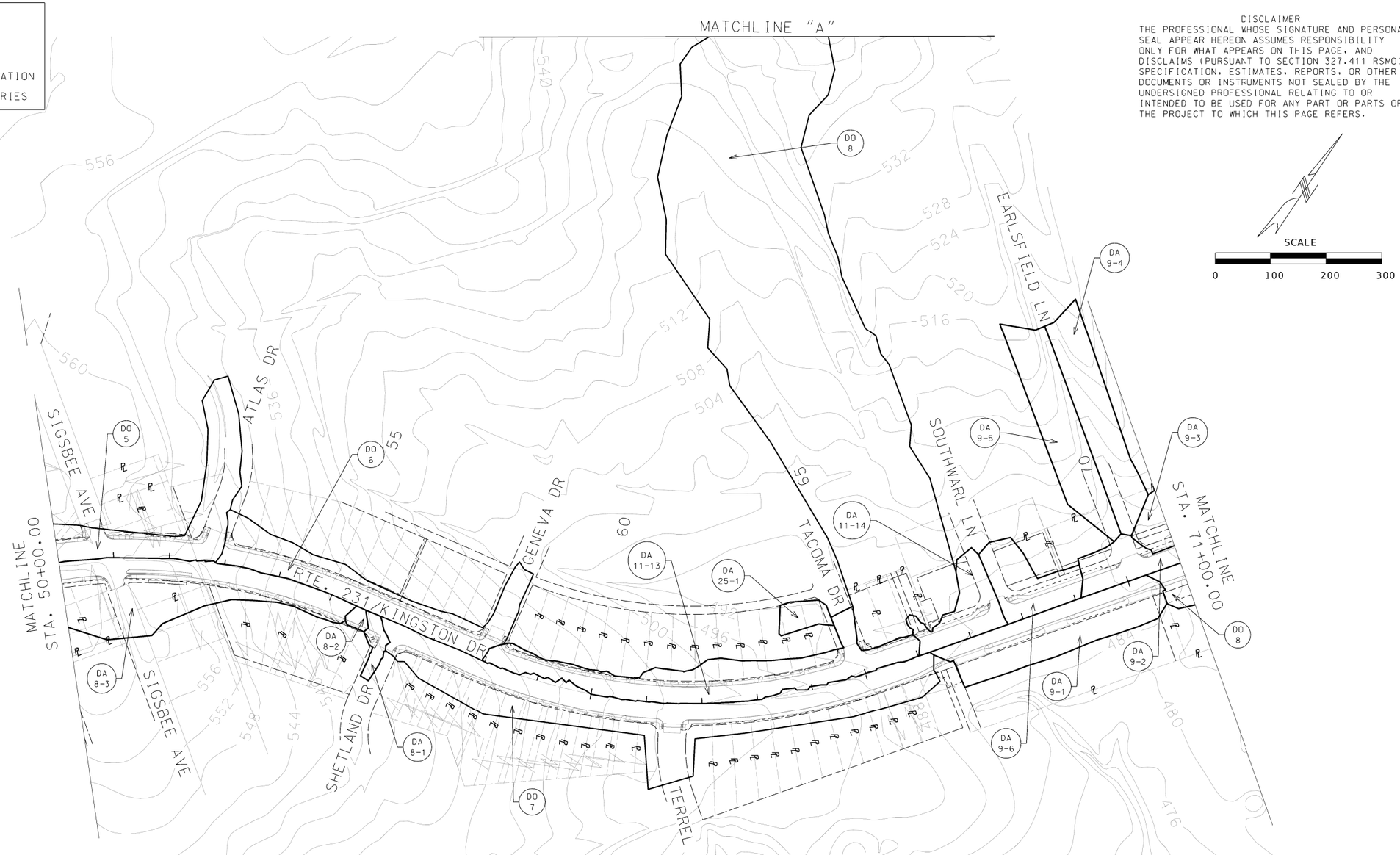
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LEGEND:

DA DRAINAGE AREA
DO DRAINAGE OFF AREAS
—XX— EXISTING GROUND ELEVATION
——— DRAINAGE AREA BOUNDARIES



SCALE
0 100 200 300

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2. SEE EXISTING AND PROPOSED DRAINAGE AREA SUMMARY SHEET FOR THE FLOW QUANTITIES.

LAYOUT	CWW	12/2024
DRAWN	SMC	12/2024
REVIEWED	DJK	12/2024

MSD BASEMAP NUMBERS	MSD PROJECT NUMBER
29H1	24-MSD-00480

EXISTING DRAINAGE AREA MAPS
SHEET 3 OF 9

STATE OF MISSOURI
DENNIS J KOSCIELSKI
NUMBER PE-2005000712
PROFESSIONAL ENGINEER

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ROUTE	STATE
231	MO
DISTRICT	SHEET NO.
SL	175

COUNTY: ST. LOUIS
JOB NO.: J6S3631
CONTRACT ID.:
PROJECT NO.:
BRIDGE NO.:

DESCRIPTION	DATE

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LEGEND:

DA DRAINAGE AREA

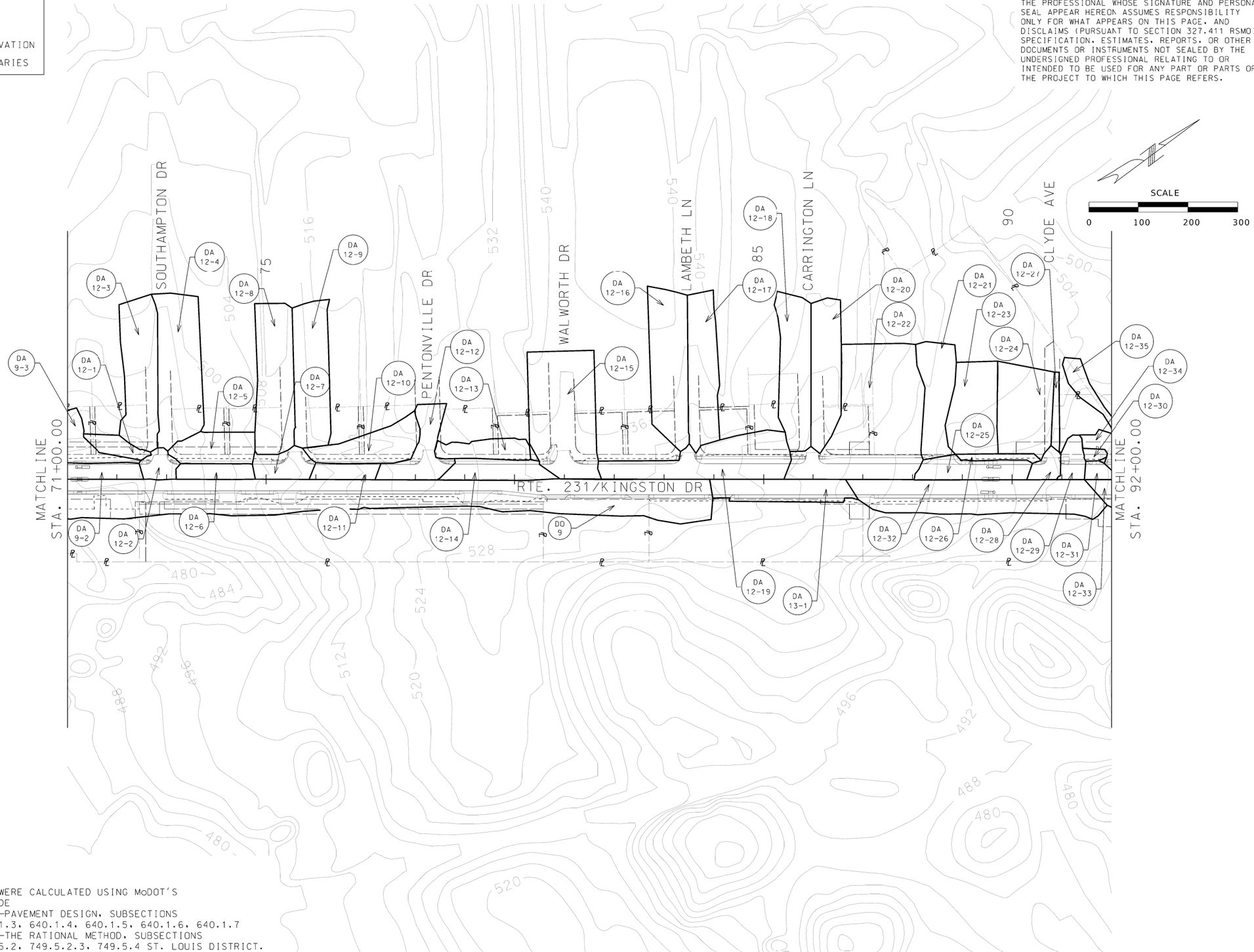
DO DRAINAGE OFF AREAS

—XX— EXISTING GROUND ELEVATION

——— DRAINAGE AREA BOUNDARIES

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2. SEE EXISTING AND PROPOSED DRAINAGE AREA SUMMARY SHEET FOR THE FLOW QUANTITIES.

LAYOUT	CWW	12/2024
DRAWN	SMC	12/2024
REVIEWED	DJK	12/2024

MSD BASEMAP NUMBERS	MSD PROJECT NUMBER
29H1	24-MSD-00480

EXISTING DRAINAGE AREA MAPS
SHEET 4 OF 9

STATE OF MISSOURI · DENNIS J KOSCIELSKI · NUMBER PE-2005000712 · PROFESSIONAL ENGINEER

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ROUTE	STATE
231	MO
DISTRICT	SHEET NO.
SL	176

COUNTY: ST. LOUIS

JOB NO.: J6S3631

CONTRACT ID.:

PROJECT NO.:

BRIDGE NO.:

DESCRIPTION	DATE

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LEGEND:

DA	DRAINAGE AREA
DO	DRAINAGE OFF AREAS
—XX—	EXISTING GROUND ELEVATION
———	DRAINAGE AREA BOUNDARIES

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LAYOUT	CWW	12/2024
DRAWN	SMC	12/2024
REVIEWED	DJK	12/2024

MSD BASEMAP NUMBERS	MSD PROJECT NUMBER
29H1	24-MSD-00480

EXISTING DRAINAGE AREA MAPS
SHEET 5 OF 9

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STATE OF MISSOURI
DENNIS J KOSCIELSKI
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PROFESSIONAL ENGINEER

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DATE PREPARED
7/25/2025

ROUTE	STATE
231	MO
DISTRICT	SHEET NO.
SL	177

COUNTY
ST. LOUIS

JOB NO.
J6S3631

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

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DESCRIPTION	DATE

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LEGEND:

DA DRAINAGE AREA

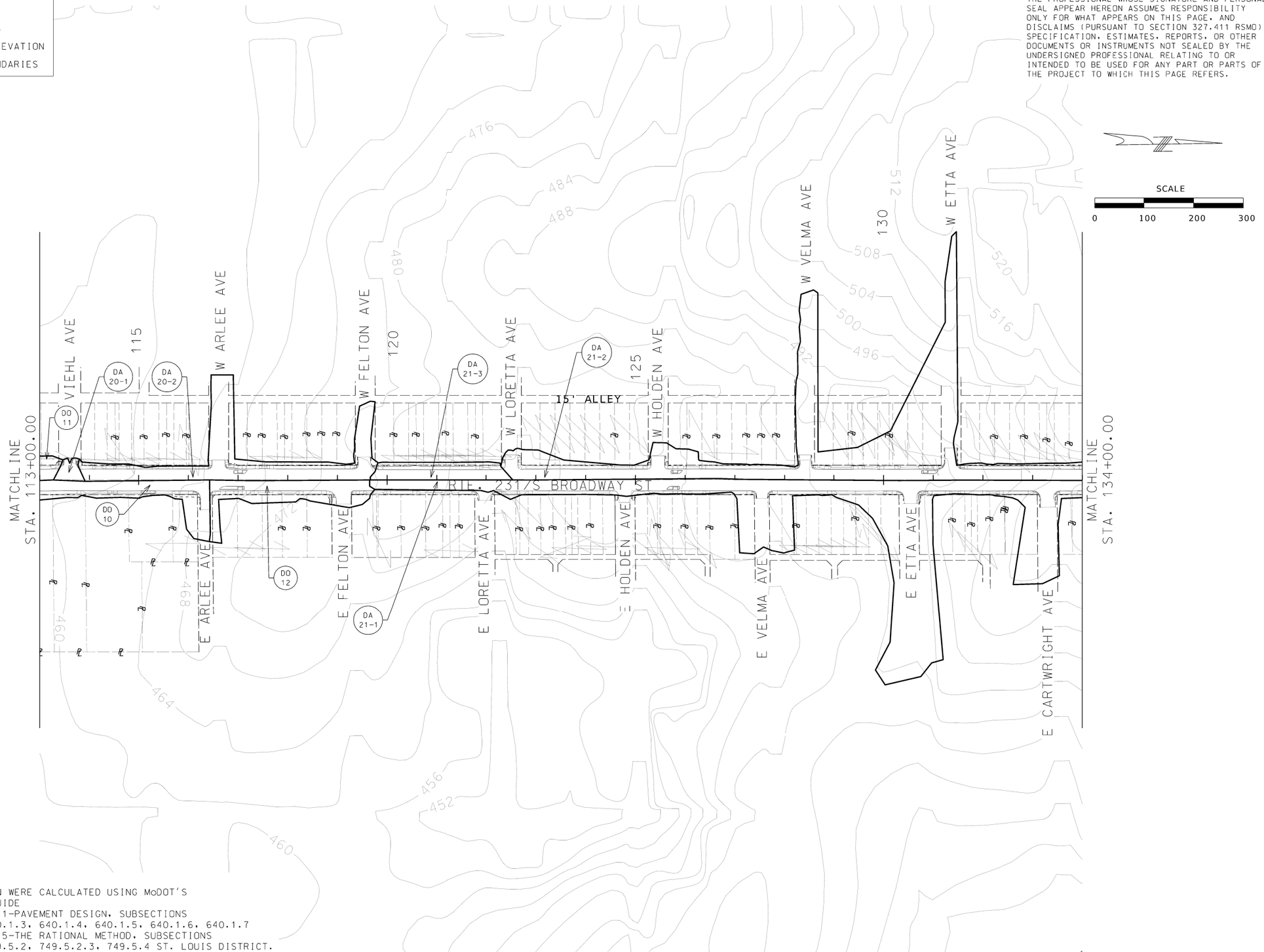
DO DRAINAGE OFF AREAS

—XX— EXISTING GROUND ELEVATION

——— DRAINAGE AREA BOUNDARIES

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DRAINAGE AREA MAP NOTES:

1. FLOW QUANTITIES SHOWN WERE CALCULATED USING MoDOT'S ENGINEERING POLICY GUIDE
   - 1.1. SECTION 640.1-PAVEMENT DESIGN, SUBSECTIONS 640.1.2, 640.1.3, 640.1.4, 640.1.5, 640.1.6, 640.1.7
   - 1.2. SECTION 749.5-THE RATIONAL METHOD, SUBSECTIONS 749.5.1, 749.5.2, 749.5.2.3, 749.5.4 ST. LOUIS DISTRICT.
2. SEE EXISTING AND PROPOSED DRAINAGE AREA SUMMARY SHEET FOR THE FLOW QUANTITIES.

LAYOUT	CWW	12/2024
DRAWN	SMC	12/2024
REVIEWED	DJK	12/2024

MSD BASEMAP NUMBERS	MSD PROJECT NUMBER
29H1	24-MSD-00480

EXISTING DRAINAGE AREA MAPS
SHEET 6 OF 9

STATE OF MISSOURI
DENNIS J KOSCIELSKI
NUMBER PE-2005000712
PROFESSIONAL ENGINEER

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DATE PREPARED 7/25/2025

ROUTE	STATE
231	MO
DISTRICT	SHEET NO.
SL	178

COUNTY: ST. LOUIS

JOB NO.: J6S3631

CONTRACT ID.:

PROJECT NO.:

BRIDGE NO.:

DESCRIPTION	DATE

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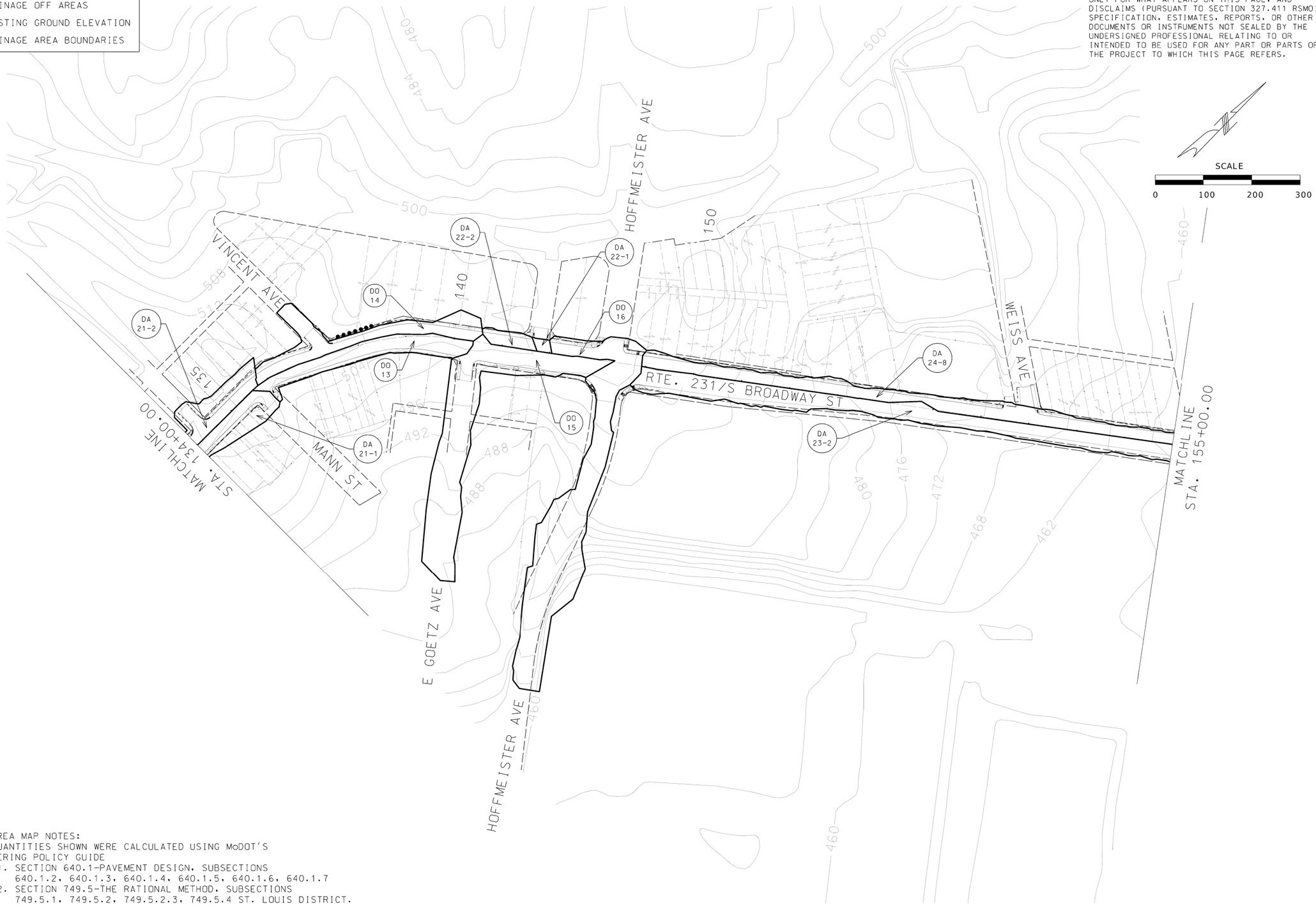
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LEGEND:

DA DRAINAGE AREA
DO DRAINAGE OFF AREAS
—XX— EXISTING GROUND ELEVATION
——— DRAINAGE AREA BOUNDARIES

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DRAINAGE AREA MAP NOTES:
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   - 1.1. SECTION 640.1-PAVEMENT DESIGN, SUBSECTIONS 640.1.2, 640.1.3, 640.1.4, 640.1.5, 640.1.6, 640.1.7
   - 1.2. SECTION 749.5-THE RATIONAL METHOD, SUBSECTIONS 749.5.1, 749.5.2, 749.5.2.3, 749.5.4 ST. LOUIS DISTRICT.
2. SEE EXISTING AND PROPOSED DRAINAGE AREA SUMMARY SHEET FOR THE FLOW QUANTITIES.

LAYOUT	CWW	12/2024
DRAWN	SMC	12/2024
REVIEWED	DJK	12/2024

MSD BASEMAP NUMBERS	MSD PROJECT NUMBER
29H1	24-MSD-00480

EXISTING DRAINAGE AREA MAPS
SHEET 7 OF 9

STATE OF MISSOURI
DENNIS J KOSCIELSKI
NUMBER PE-2005000712
PROFESSIONAL ENGINEER

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ROUTE	STATE
231	MO
DISTRICT	SHEET NO.
SL	179

COUNTY ST. LOUIS
JOB NO. J6S3631
CONTRACT ID.
PROJECT NO.
BRIDGE NO.

DESCRIPTION	DATE

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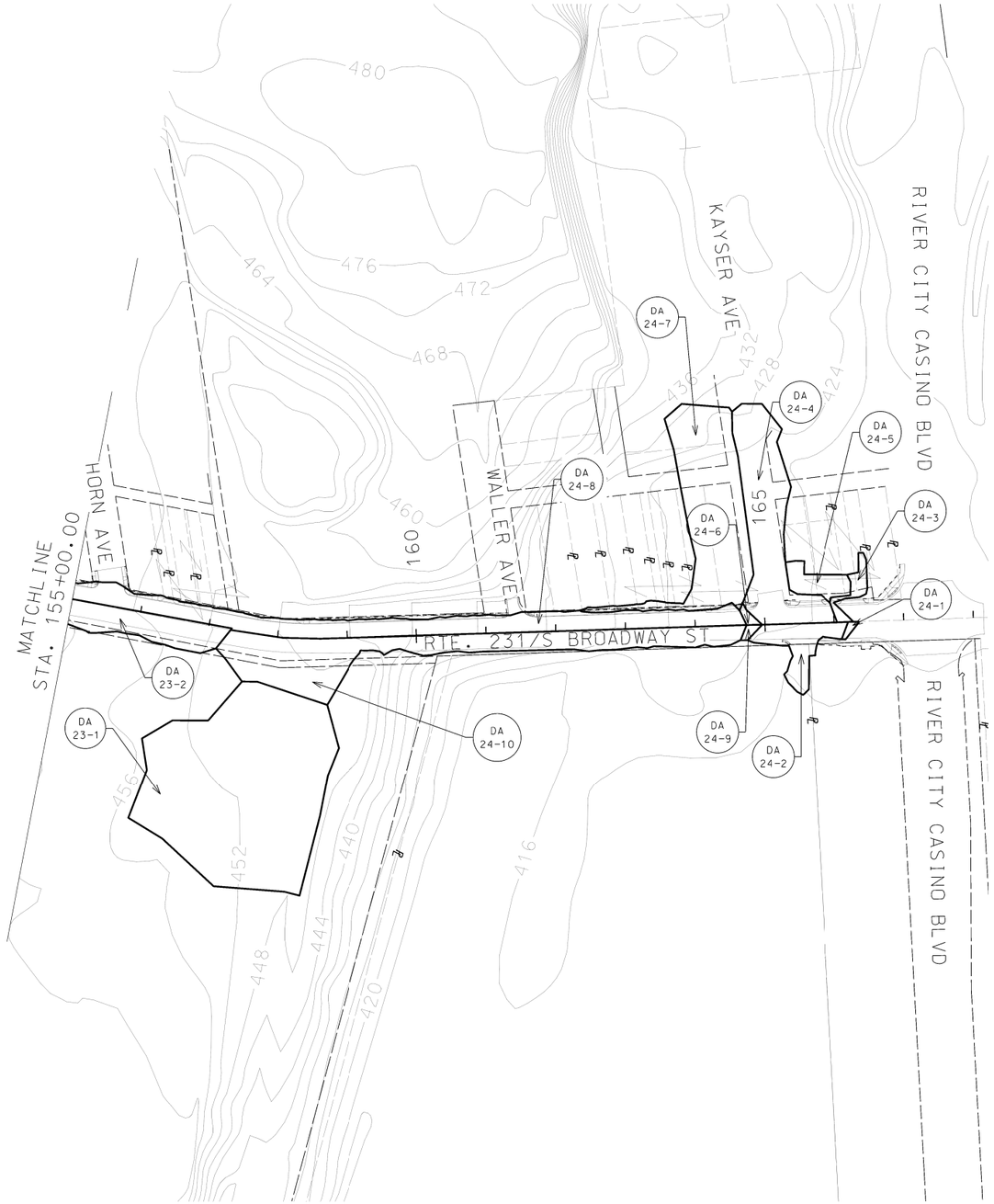
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LEGEND:

DA	DRAINAGE AREA
DO	DRAINAGE OFF AREAS
—XX—	EXISTING GROUND ELEVATION
———	DRAINAGE AREA BOUNDARIES



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SCALE
0 100 200 300

DRAINAGE AREA MAP NOTES:
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2. SEE EXISTING AND PROPOSED DRAINAGE AREA SUMMARY SHEET FOR THE FLOW QUANTITIES.

LAYOUT	CWW	12/2024
DRAWN	SMC	12/2024
REVIEWED	DJK	12/2024

MSD BASEMAP NUMBERS	MSD PROJECT NUMBER
29H1	24-MSD-00480

EXISTING DRAINAGE AREA MAPS
SHEET 8 OF 9

STATE OF MISSOURI
DENNIS J KOSCIELSKI
NUMBER PE-2005000712
PROFESSIONAL ENGINEER

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DATE PREPARED: 7/25/2025
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DISTRICT: SL | SHEET NO.: 180
COUNTY: ST. LOUIS
JOB NO.: J6S3631
CONTRACT ID.:
PROJECT NO.:
BRIDGE NO.:

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LEGEND:

DA	DRAINAGE AREA
DO	DRAINAGE OFF AREAS
—XX—	EXISTING GROUND ELEVATION
———	DRAINAGE AREA BOUNDARIES

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2. SEE EXISTING AND PROPOSED DRAINAGE AREA SUMMARY SHEET FOR THE FLOW QUANTITIES.

LAYOUT	CWW	12/2024
DRAWN	SMC	12/2024
REVIEWED	DJK	12/2024

MSD BASEMAP NUMBERS	MSD PROJECT NUMBER
29H1	24-MSD-00480

EXISTING DRAINAGE AREA MAPS
SHEET 9 OF 9

I:\22jobs\22H0100\CAD\Road\Sheet\181_SS_35_J6S3631_I100_DrainageArea09.dgn

STATE OF MISSOURI
DENNIS J KOSCIELSKI
NUMBER PE-2005000712
PROFESSIONAL ENGINEER

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ROUTE	STATE
231	MO
DISTRICT	SHEET NO.
SL	181

COUNTY
ST. LOUIS

JOB NO.
J6S3631

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION	DATE

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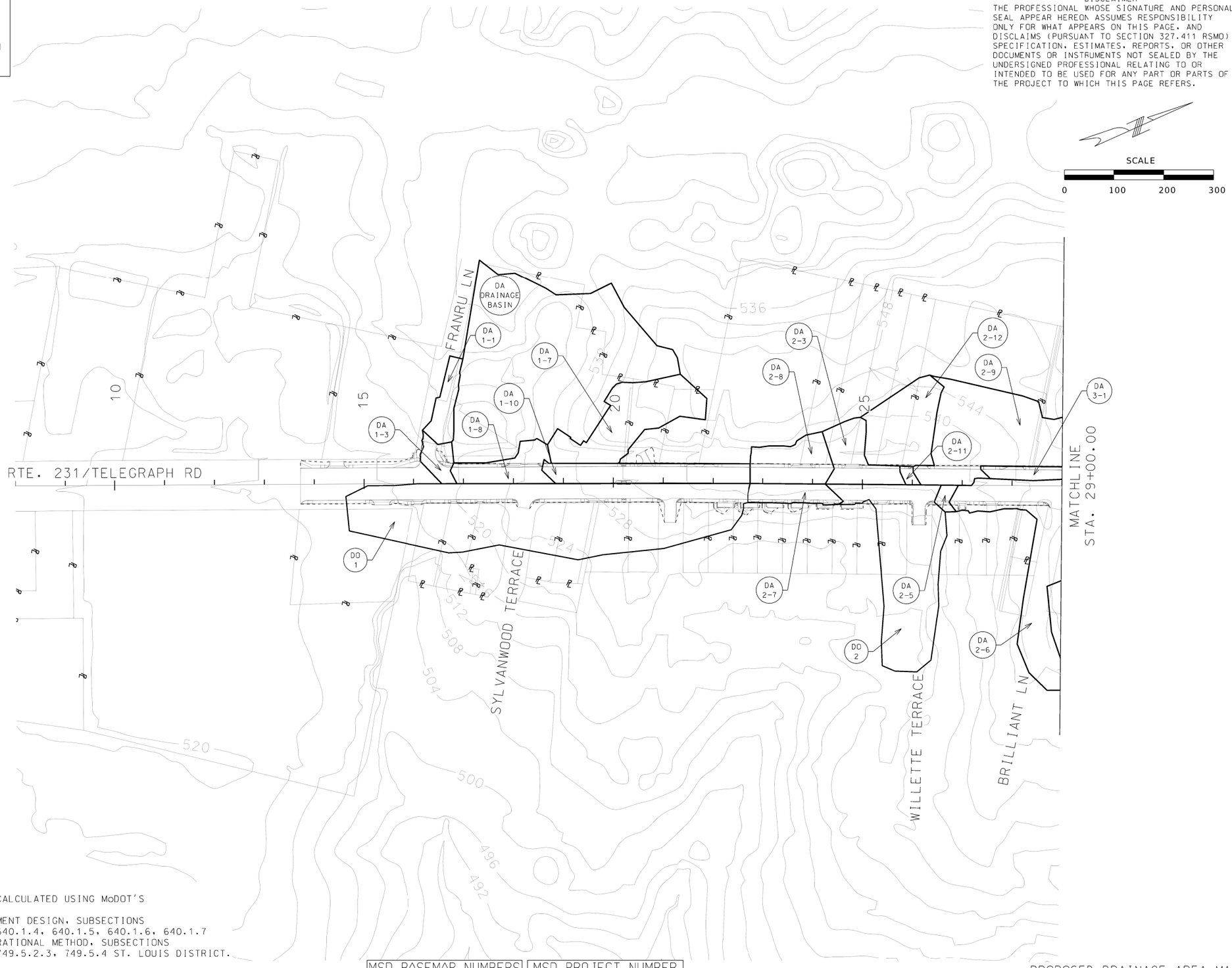
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LEGEND:

DA	DRAINAGE AREA
DO	DRAINAGE OFF AREAS
—XX—	EXISTING GROUND ELEVATION
———	DRAINAGE AREA BOUNDARIES

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   - 1.2. SECTION 749.5-THE RATIONAL METHOD, SUBSECTIONS 749.5.1, 749.5.2, 749.5.2.3, 749.5.4 ST. LOUIS DISTRICT.
2. SEE EXISTING AND PROPOSED DRAINAGE AREA SUMMARY SHEET FOR THE FLOW QUANTITIES.

LAYOUT	CWW	12/2024
DRAWN	SMC	12/2024
REVIEWED	DJK	12/2024

MSD BASEMAP NUMBERS	MSD PROJECT NUMBER
29H1	24-MSD-00480

PROPOSED DRAINAGE AREA MAPS
SHEET 1 OF 9

STATE OF MISSOURI
DENNIS J KOSCIELSKI
NUMBER PE-2005000712
PROFESSIONAL ENGINEER

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DATE PREPARED: 7/25/2025
ROUTE: 231 | STATE: MO
DISTRICT: SL | SHEET NO.: 182
COUNTY: ST. LOUIS
JOB NO.: J6S3631
CONTRACT ID.:
PROJECT NO.:
BRIDGE NO.:

DATE	DESCRIPTION

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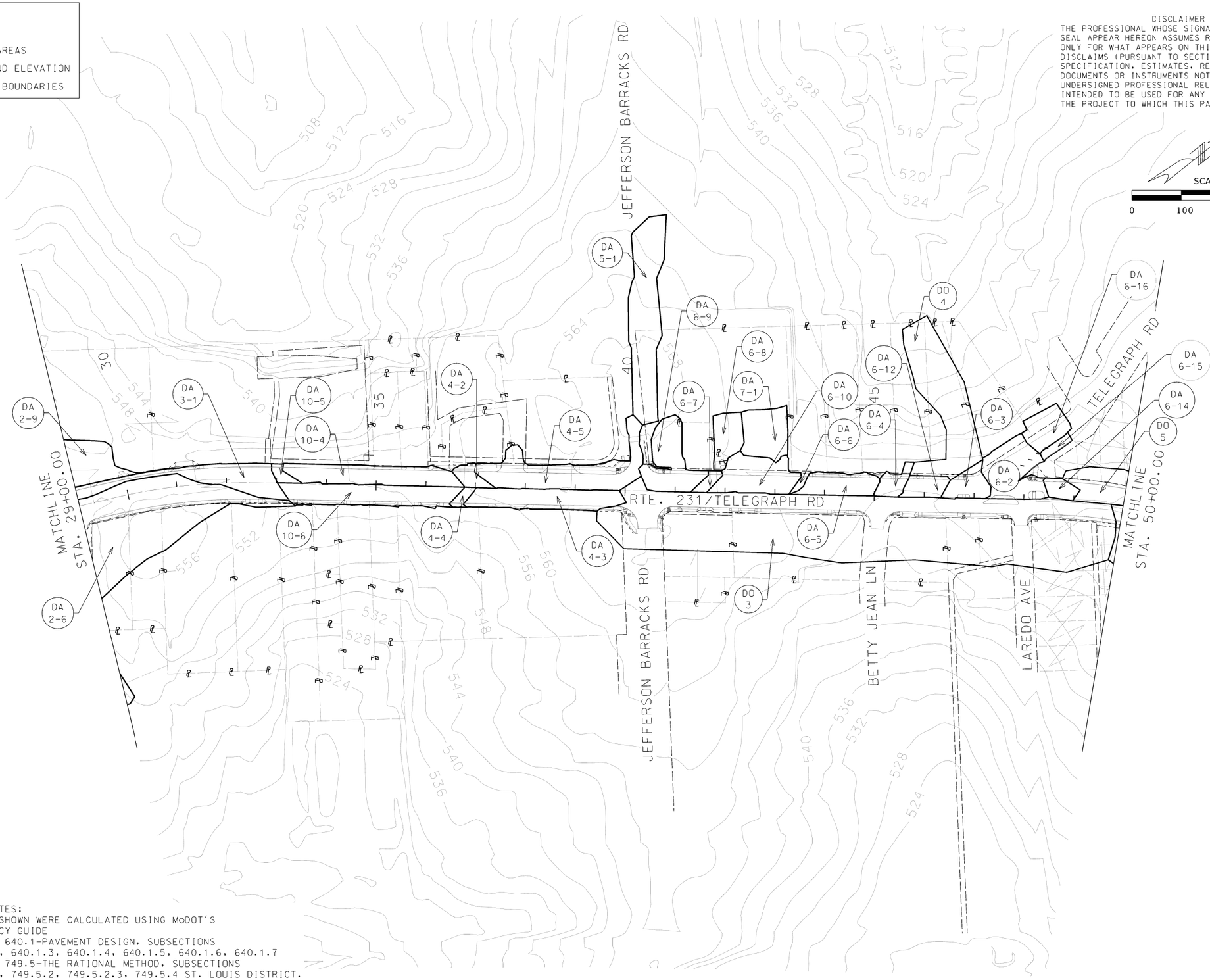
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LEGEND:

DA DRAINAGE AREA
DO DRAINAGE OFF AREAS
—XX— EXISTING GROUND ELEVATION
——— DRAINAGE AREA BOUNDARIES

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DRAINAGE AREA MAP NOTES:
1. FLOW QUANTITIES SHOWN WERE CALCULATED USING MoDOT'S ENGINEERING POLICY GUIDE
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   1.2. SECTION 749.5-THE RATIONAL METHOD, SUBSECTIONS 749.5.1, 749.5.2, 749.5.2.3, 749.5.4 ST. LOUIS DISTRICT.
2. SEE EXISTING AND PROPOSED DRAINAGE AREA SUMMARY SHEET FOR THE FLOW QUANTITIES.

LAYOUT	CWW	12/2024
DRAWN	SMC	12/2024
REVIEWED	DJK	12/2024

MSD BASEMAP NUMBERS	MSD PROJECT NUMBER
29H1	24-MSD-00480

PROPOSED DRAINAGE AREA MAPS
SHEET 2 OF 9

STATE OF MISSOURI
DENNIS J KOSCIELSKI
NUMBER PE-2005000712
PROFESSIONAL ENGINEER

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ROUTE	STATE
231	MO
DISTRICT	SHEET NO.
SL	183

COUNTY
ST. LOUIS

JOB NO.
J6S3631

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

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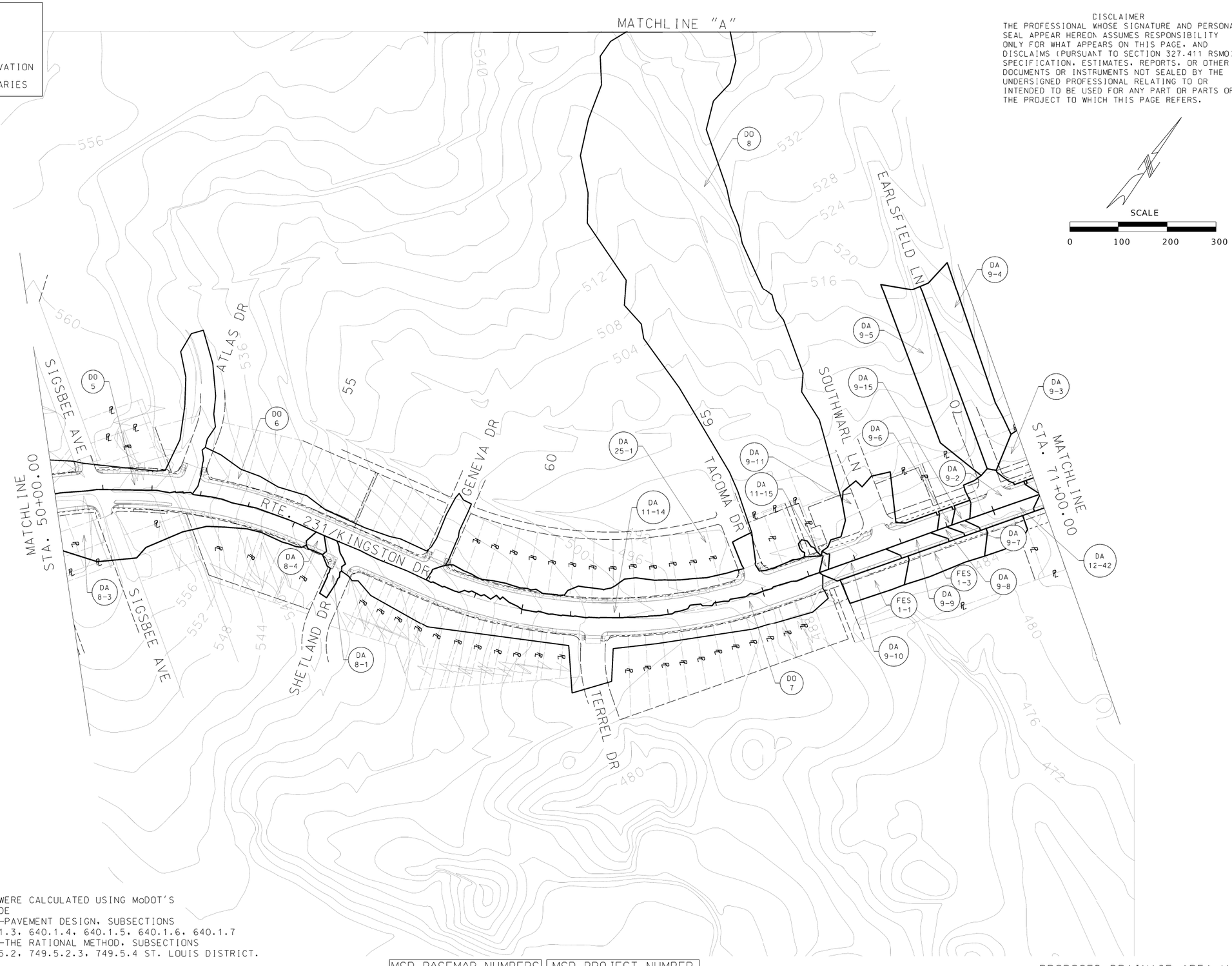
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LEGEND:

DA DRAINAGE AREA
DO DRAINAGE OFF AREAS
—XX— EXISTING GROUND ELEVATION
——— DRAINAGE AREA BOUNDARIES



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DRAINAGE AREA MAP NOTES:
1. FLOW QUANTITIES SHOWN WERE CALCULATED USING MoDOT'S ENGINEERING POLICY GUIDE
   - 1.1. SECTION 640.1-PAVEMENT DESIGN, SUBSECTIONS 640.1.2, 640.1.3, 640.1.4, 640.1.5, 640.1.6, 640.1.7
   - 1.2. SECTION 749.5-THE RATIONAL METHOD, SUBSECTIONS 749.5.1, 749.5.2, 749.5.2.3, 749.5.4 ST. LOUIS DISTRICT.
2. SEE EXISTING AND PROPOSED DRAINAGE AREA SUMMARY SHEET FOR THE FLOW QUANTITIES.

LAYOUT	CWW	12/2024
DRAWN	SMC	12/2024
REVIEWED	DJK	12/2024

MSD BASEMAP NUMBERS	MSD PROJECT NUMBER
29H1	24-MSD-00480

PROPOSED DRAINAGE AREA MAPS
SHEET 3 OF 9

STATE OF MISSOURI
DENNIS J KOSCIELSKI
NUMBER PE-2005000712
PROFESSIONAL ENGINEER

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231	MO
DISTRICT	SHEET NO.
SL	184

COUNTY: ST. LOUIS
JOB NO.: J6S3631
CONTRACT ID.:
PROJECT NO.:
BRIDGE NO.:

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LEGEND:

DA DRAINAGE AREA

DO DRAINAGE OFF AREAS

—XX— EXISTING GROUND ELEVATION

——— DRAINAGE AREA BOUNDARIES

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1. FLOW QUANTITIES SHOWN WERE CALCULATED USING MoDOT'S ENGINEERING POLICY GUIDE
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   - 1.2. SECTION 749.5-THE RATIONAL METHOD, SUBSECTIONS 749.5.1, 749.5.2, 749.5.2.3, 749.5.4 ST. LOUIS DISTRICT.
2. SEE EXISTING AND PROPOSED DRAINAGE AREA SUMMARY SHEET FOR THE FLOW QUANTITIES.

LAYOUT	CWW	12/2024
DRAWN	SMC	12/2024
REVIEWED	DJK	12/2024

MSD BASEMAP NUMBERS	MSD PROJECT NUMBER
29H1	24-MSD-00480

PROPOSED DRAINAGE AREA MAPS
SHEET 4 OF 9

STATE OF MISSOURI
DENNIS J KOSCIELSKI
NUMBER PE-2005000712
PROFESSIONAL ENGINEER

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231	MO
DISTRICT	SHEET NO.
SL	185

COUNTY: ST. LOUIS

JOB NO.: J6S3631

CONTRACT ID.:

PROJECT NO.:

BRIDGE NO.:

DATE	DESCRIPTION

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LEGEND:

DA	DRAINAGE AREA
DO	DRAINAGE OFF AREAS
—XX—	EXISTING GROUND ELEVATION
———	DRAINAGE AREA BOUNDARIES



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SCALE
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DRAINAGE AREA MAP NOTES:
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2. SEE EXISTING AND PROPOSED DRAINAGE AREA SUMMARY SHEET FOR THE FLOW QUANTITIES.

LAYOUT	CWW	12/2024
DRAWN	SMC	12/2024
REVIEWED	DJK	12/2024

MSD BASEMAP NUMBERS	MSD PROJECT NUMBER
29H1	24-MSD-00480

PROPOSED DRAINAGE AREA MAPS
SHEET 5 OF 9

STATE OF MISSOURI
DENNIS J KOSCIELSKI
NUMBER PE-2005000712
PROFESSIONAL ENGINEER

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ROUTE	STATE
231	MO
DISTRICT	SHEET NO.
SL	186

COUNTY
ST. LOUIS

JOB NO.
J6S3631

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

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LEGEND:

DA DRAINAGE AREA

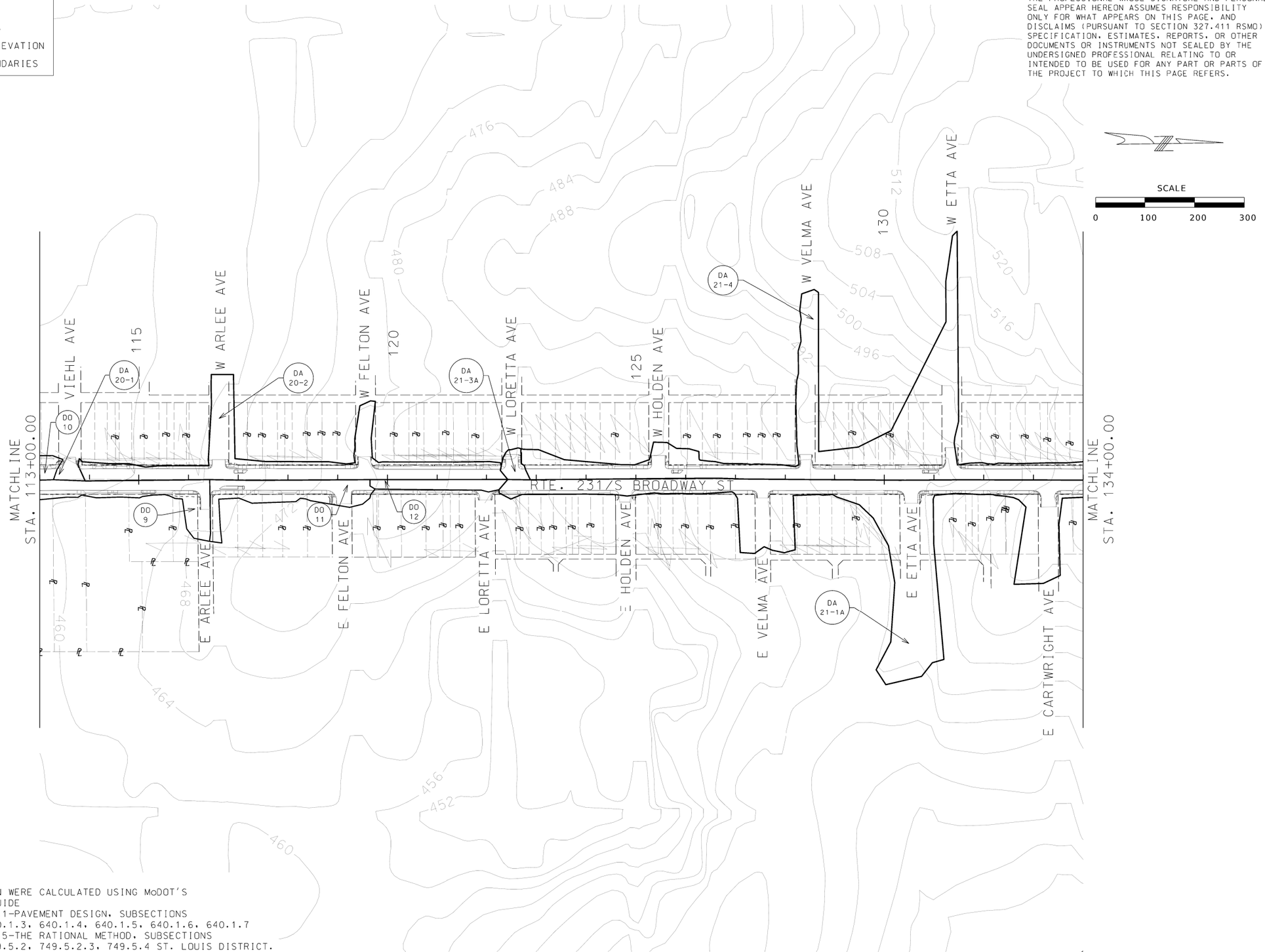
DO DRAINAGE OFF AREAS

—XX— EXISTING GROUND ELEVATION

——— DRAINAGE AREA BOUNDARIES

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DRAINAGE AREA MAP NOTES:

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   - 1.2. SECTION 749.5-THE RATIONAL METHOD, SUBSECTIONS 749.5.1, 749.5.2, 749.5.2.3, 749.5.4 ST. LOUIS DISTRICT.
2. SEE EXISTING AND PROPOSED DRAINAGE AREA SUMMARY SHEET FOR THE FLOW QUANTITIES.

LAYOUT	CWW	12/2024
DRAWN	SMC	12/2024
REVIEWED	DJK	12/2024

MSD BASEMAP NUMBERS	MSD PROJECT NUMBER
29H1	24-MSD-00480

PROPOSED DRAINAGE AREA MAPS
SHEET 6 OF 9

STATE OF MISSOURI
DENNIS J KOSCIELSKI
NUMBER PE-2005000712
PROFESSIONAL ENGINEER

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DATE PREPARED 7/25/2025

ROUTE	STATE
231	MO
DISTRICT	SHEET NO.
SL	187

COUNTY: ST. LOUIS

JOB NO.: J6S3631

CONTRACT ID.:

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BRIDGE NO.:

DESCRIPTION	DATE

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2. SEE EXISTING AND PROPOSED DRAINAGE AREA SUMMARY SHEET FOR THE FLOW QUANTITIES.

LAYOUT	CWW	12/2024
DRAWN	SMC	12/2024
REVIEWED	DJK	12/2024

MSD BASEMAP NUMBERS	MSD PROJECT NUMBER
29H1	24-MSD-00480

PROPOSED DRAINAGE AREA MAPS
SHEET 7 OF 9

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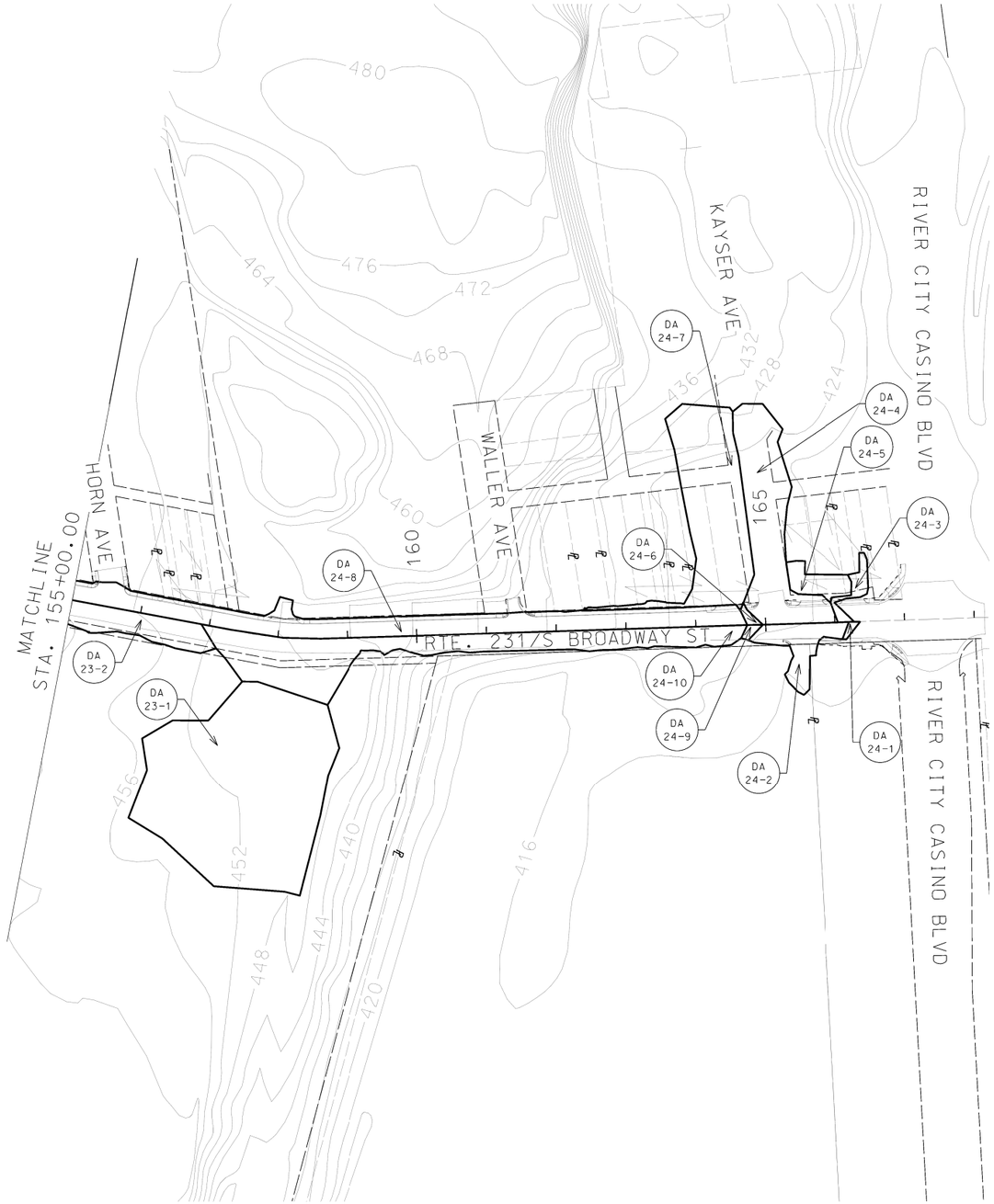
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DO	DRAINAGE OFF AREAS
—XX—	EXISTING GROUND ELEVATION
———	DRAINAGE AREA BOUNDARIES



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2. SEE EXISTING AND PROPOSED DRAINAGE AREA SUMMARY SHEET FOR THE FLOW QUANTITIES.

LAYOUT	CWW	12/2024
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REVIEWED	DJK	12/2024

MSD BASEMAP NUMBERS	MSD PROJECT NUMBER
29H1	24-MSD-00480

PROPOSED DRAINAGE AREA MAPS
SHEET 8 OF 9

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STATE OF MISSOURI
DENNIS J KOSCIELSKI
NUMBER PE-2005000712
PROFESSIONAL ENGINEER

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231	MO
DISTRICT	SHEET NO.
SL	189

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JOB NO.: J6S3631

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2. SEE EXISTING AND PROPOSED DRAINAGE AREA SUMMARY SHEET FOR THE FLOW QUANTITIES.

LAYOUT	CWW	12/2024
DRAWN	SMC	12/2024
REVIEWED	DJK	12/2024

MSD BASEMAP NUMBERS	MSD PROJECT NUMBER
29H1	24-MSD-00480

PROPOSED DRAINAGE AREA MAPS
SHEET 9 OF 9

STATE OF MISSOURI
DENNIS J KOSCIELSKI
NUMBER PE-2005000712
PROFESSIONAL ENGINEER

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231	MO
DISTRICT	SHEET NO.
SL	190

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DIFFERENTIAL RUNOFF SUMMARY	
	Total Flow (CFS)
Existing	561.49
Proposed	562.78
Differential	1.30

TABLE 1: RUNOFF DIFFERENTIAL SUMMARY

STATE OF MISSOURI
DENNIS J KOSCIELSKI
NUMBER PE-2005000712
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COUNTY
ST. LOUIS

JOB NO.
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29H1	24-MSD-00480

DRAINAGE AREA SUMMARY SHEETS
SHEET 1 OF 4

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HYDROLOGIC CALCULATIONS - EXISTING RUNOFF BY DRAINAGE AREA (DA)

Structure Information					Flow		
System	Inlet Number	Inlet Type	Area	Area	Intensity (I)	Runoff Coefficient (c)	Flow Rate (Q)
			(SF)	(AC)	(in/hr)	N/A	(cfs)
1	-	DETENTION BASIN	108900	2.50	7.50	0.70	9.53
1	1-1	CI	6643	0.15	7.50	0.70	0.80
1	1-2	GI	15543	0.36	7.50	0.70	1.87
1	1-6	GI	16306	0.37	7.50	0.50	1.40
1	1-7	DI	26999	0.62	7.50	0.50	2.32
2	2-2	GI	6760	0.16	7.50	0.90	1.05
2	2-3	GI	22761	0.52	7.50	0.70	2.74
2	2-4	GI	8921	0.20	7.50	0.80	1.23
2	2-1	GI	79153	1.82	7.50	0.70	9.54
2	2-12	Headwall	15347	0.35	7.50	0.90	2.38
3	3-1	Conc. Flume	67060	1.54	7.50	0.85	9.81
10	10-1	GI	13512	0.31	7.50	0.80	1.86
10	10-3	GI	13762	0.32	7.50	0.80	1.90
4	4-1	GI	13867	0.32	7.50	0.80	1.91
4	4-2	GI	22407	0.51	7.50	0.80	3.09
5	5-1	GI	23046	0.53	7.50	0.70	2.78
6	6-7	GI	12621	0.29	7.50	0.80	1.74
6	6-6	GI	11243	0.26	7.50	0.80	1.55
6	6-8	CI	5536	0.13	7.50	0.80	0.76
6	6-5	GI	6638	0.15	7.50	0.80	0.91
6	6-4	GI	6518	0.15	7.50	0.80	0.90
6	6-3	GI	4554	0.10	7.50	0.80	0.63
6	6-2	GI	9631	0.22	7.50	0.90	1.49
6	6-16	GI	5782	0.13	7.50	0.90	0.90
6	6-15	GI	1211	0.03	7.50	0.90	0.19
6	6-1	GI	4606	0.11	7.50	0.90	0.71
7	7-1	GI	8747	0.20	7.50	0.90	1.36
8	8-3	CI	47078	1.08	7.50	0.70	5.67
8	8-2	CI	1288	0.03	7.50	0.85	0.19
8	8-1	GI	3197	0.07	7.50	0.70	0.39
11	11-13	GI	42323	0.97	7.50	0.85	6.19
11	11-14	CI	13857	0.32	7.50	0.75	1.79
25	25-1	GI	4339	0.10	7.50	0.70	0.52
9	9-6	CI	15435	0.35	7.50	0.70	1.86
9	9-1	DI	32537	0.75	7.50	0.90	5.04
9	9-5	CI	27836	0.64	7.50	0.65	3.12
9	9-4	CI	25938	0.60	7.50	0.65	2.90
9	9-2	CI	15637	0.36	7.50	0.85	2.29
9	9-3	DI	10385	0.24	7.50	0.55	0.98
12	12-1	DI	3844	0.09	7.50	0.50	0.33

TABLE 2: EXISTING RUNOFF DRAINAGE (DA) (1 OF 3)

HYDROLOGIC CALCULATIONS - EXISTING RUNOFF BY DRAINAGE AREA (DA)

Structure Information					Flow		
System	Inlet Number	Inlet Type	Area	Area	Intensity (I)	Runoff Coefficient (c)	Flow Rate (Q)
			(SF)	(AC)	(in/hr)	N/A	(cfs)
12	12-2	CI	3800	0.09	7.50	0.85	0.56
12	12-3	CI	21225	0.49	7.50	0.7	2.56
12	12-4	CI	25989	0.60	7.50	0.7	3.13
12	12-5	DI	9733	0.22	7.50	0.6	1.01
12	12-6	CI	4868	0.11	7.50	0.9	0.75
12	12-7	CI	6448	0.15	7.50	0.7	0.78
12	12-8	CI	22654	0.52	7.50	0.65	2.54
12	12-9	CI	20618	0.47	7.50	0.65	2.31
12	12-10	DI	12685	0.29	7.50	0.55	1.20
12	12-11	CI	4304	0.10	7.50	0.9	0.67
12	12-12	CI	10725	0.25	7.50	0.85	1.57
12	12-13	DI	6971	0.16	7.50	0.5	0.60
12	12-14	CI	8346	0.19	7.50	0.9	1.29
12	12-15	CI	33055	0.76	7.50	0.7	3.98
12	12-16	CI	22957	0.53	7.50	0.7	2.77
12	12-17	CI	18058	0.41	7.50	0.7	2.18
12	12-19	DI	24126	0.55	7.50	0.7	2.91
12	12-18	CI	19384	0.44	7.50	0.65	2.17
12	12-20	CI	17112	0.39	7.50	0.65	1.92
12	12-22	DI	50954	1.17	7.50	0.6	5.26
12	12-32	DI	32834	0.75	7.50	0.75	4.24
12	12-21	GI	14055	0.32	7.50	0.85	2.06
12	12-23	CI	17358	0.40	7.50	0.9	2.69
12	12-25	CI	9325	0.21	7.50	0.85	1.36
12	12-26	DI	2116	0.05	7.50	0.5	0.18
12	12-24	GI	19435	0.45	7.50	0.9	3.01
12	12-27	CI	2092	0.05	7.50	0.9	0.32
12	12-28	CI	3055	0.07	7.50	0.9	0.47
12	12-29	GI	3855	0.09	7.50	0.9	0.60
12	12-30	DI	1036	0.02	7.50	0.9	0.16
12	12-31	CI	1981	0.05	7.50	0.9	0.31
12	12-33	DI	5979	0.14	7.50	0.7	0.72
12	12-34	GI	4700	0.11	7.50	0.9	0.73
12	12-35	DI	5017	0.12	7.50	0.65	0.56
13	13-1	GI	12404	0.28	7.50	0.7	1.49
14	14-3	CI	12541	0.29	7.50	0.7	1.51
14	14-2	CI	9535	0.22	7.50	0.7	1.15
14	14-1	CI	9105	0.21	7.50	0.7	1.10
15	15-2	GI	22593	0.52	7.50	0.9	3.50

TABLE 3: EXISTING RUNOFF DRAINAGE (DA) (2 OF 3)

HYDROLOGIC CALCULATIONS - EXISTING RUNOFF BY DRAIN OFF AREAS (DO)

Structure Information			Flow		
Area Number	Area	Area	Intensity (I)	Runoff Coefficient (c)	Flow Rate (Q)
	(SF)	(AC)	(in/hr)	N/A	(cfs)
1	99176	2.28	7.50	0.70	11.95
2	46500	1.07	7.50	0.70	5.60
3	128475	2.95	7.50	0.90	19.91
4	24935	0.57	7.50	0.85	3.65
5	39332	0.90	7.50	0.80	5.42
6	35958	0.83	7.50	0.80	4.95
7	77548	1.78	7.50	0.70	9.35
8	1647109	37.81	7.50	0.70	198.52
9	92413	2.12	7.50	0.80	12.73
10	31987	0.73	7.50	0.85	4.68
11	14381	0.33	7.50	0.75	1.86
12	16026	0.37	7.50	0.90	2.48
13	15951	0.37	7.50	0.85	2.33
14	19660	0.45	7.50	0.85	2.88
15	43080	0.99	7.50	0.90	6.68
16	55529	1.27	7.50	0.80	7.65

TABLE 5: EXISTING RUNOFF DRAINAGE (DO)

HYDROLOGIC CALCULATIONS - EXISTING RUNOFF BY DRAINAGE AREA (DA)

Structure Information					Flow		
System	Inlet Number	Inlet Type	Area	Area	Intensity (I)	Runoff Coefficient (c)	Flow Rate (Q)
			(SF)	(AC)	(in/hr)	N/A	(cfs)
15	15-1	GI	2747	0.06	7.50	0.90	0.43
18	18-1	DI	2663	0.06	7.50	0.55	0.25
18	18-4A	GI	12585	0.29	7.50	0.90	1.95
18	18-13	GI	13674	0.31	7.50	0.85	2.00
18	18-16	GI	21546	0.49	7.50	0.90	3.34
18	18-15	GI	14019	0.32	7.50	0.90	2.17
18	18-14	CI	2254	0.05	7.50	0.50	0.19
18	18-7	CGCI	4335	0.10	7.50	0.90	0.67
18	18-8	GI	1012	0.02	7.50	0.90	0.16
18	18-9	GI	2184	0.05	7.50	0.70	0.26
18	18-12	GI	13909	0.32	7.50	0.90	2.16
18	18-9B	GI	8857	0.20	7.50	0.75	1.14
19	19-3	CI	13789	0.32	7.50	0.90	2.14
16	16-2	CI	8219	0.19	7.50	0.70	0.99
16	16-3	GI	3323	0.08	7.50	0.90	0.51
16	16-1	CI	1848	0.04	7.50	0.90	0.29
17	17-3	GI	1597	0.04	7.50	0.90	0.25
17	17-1	CI	1278	0.03	7.50	0.90	0.20
17	17-2	GI	477	0.01	7.50	0.90	0.07
19	19-2	CI	6997	0.16	7.50	0.85	1.02
19	19-1	CI	4410	0.10	7.50	0.90	0.68
20	20-1	CI	1920	0.04	7.50	0.90	0.30
20	20-2	CI	41930	0.96	7.50	0.90	6.50
21	21-1	GI	116707	2.68	7.50	0.90	18.08
21	21-3	CI	9379	0.22	7.50	0.90	1.45
21	21-2	CI	104406	2.40	7.50	0.90	16.18
22	22-2	CI	3237	0.07	7.50	0.90	0.50
22	22-1	CI	880	0.02	7.50	0.90	0.14
23	23-2	CI	50135	1.15	7.50	0.75	6.47
23	23-1	CI	63900	1.47	7.50	0.60	6.60
24	24-10	CGCI	28281	0.65	7.50	0.70	3.41
24	24-8	CGCI	57009	1.31	7.50	0.90	8.83
24	24-7	DI	26403	0.61	7.50	0.85	3.86
24	24-6	CGCI	398	0.01	7.50	0.85	0.06
24	24-9	CGCI	354	0.01	7.50	0.85	0.05
24	24-4	CI	20855	0.48	7.50	0.85	3.05
24	24-5	DI	3164	0.07	7.50	0.85	0.46
24	24-3	CI	1710	0.04	7.50	0.85	0.25
24	24-2	CGCI	5642	0.13	7.50	0.85	0.83

TABLE 4: EXISTING RUNOFF DRAINAGE (DA) (3 OF 3)

LAYOUT	CWW	12/2024
DRAWN	SMC	12/2024
REVIEWED	DJK	12/2024

MSD BASEMAP NUMBERS
29H1

MSD PROJECT NUMBER
24-MSD-00480

DRAINAGE AREA SUMMARY SHEETS
SHEET 2 OF 4

STATE OF MISSOURI
DENNIS J KOSCIELSKI
NUMBER PE-2005000712
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED
7/25/2025

ROUTE	STATE
231	MO
DISTRICT	SHEET NO.
SL	192

COUNTY
ST. LOUIS

JOB NO.
J6S3631

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION	DATE

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

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HYDROLOGIC CALCULATIONS - PROPOSED RUNOFF BY DRAINAGE AREA (DA)							
Structure Information					Flow		
System	Inlet Number	Inlet Type	Area	Area	Intensity (I)	Runoff Coefficient (c)	Flow Rate (Q)
			(SF)	(AC)	(in/hr)	N/A	(cfs)
1	-	DETENTION BASIN	108900	2.50	7.50	0.7	9.53
1	1-1	CI	6643	0.15	7.50	0.8	0.92
1	1-8	GI	10825	0.25	7.50	0.9	1.68
1	1-7	DI	26999	0.62	7.50	0.5	2.32
1	1-10	GI	16366	0.38	7.50	0.9	2.54
2	2-8	CI	13334	0.31	7.50	0.7	1.61
2	2-3	GI	12161	0.28	7.50	0.65	1.36
2	2-7	D	6759	0.16	7.50	0.9	1.05
2	2-12	HEADWALL	21094	0.48	7.50	0.9	3.27
2	2-5	D	1608	0.04	7.50	0.6	0.17
2	2-11	GT	1019	0.02	7.50	0.9	0.16
3	3-1	PT	17009	0.39	7.50	0.9	2.64
2	2-9	GT	50132	1.15	7.50	0.7	6.04
2	2-6	D	77529	1.78	7.50	0.7	9.34
10	10-5	CI	1195	0.03	7.50	0.9	0.19
10	10-4	CI	12855	0.30	7.50	0.9	1.99
10	10-6	D	14340	0.33	7.50	0.9	2.22
4	4-2	GI	2292	0.05	7.50	0.9	0.36
4	4-5	CI	19285	0.44	7.50	0.9	2.99
4	4-4	D	1083	0.02	7.50	0.9	0.17
4	4-3	D	12014	0.28	7.50	0.9	1.86
5	5-1	GI	23046	0.53	7.50	0.8	3.17
6	6-9	CI	11257	0.26	7.50	0.9	1.74
6	6-8	CI	5545	0.13	7.50	0.9	0.86
6	6-7	GI	1321	0.03	7.50	0.9	0.20
6	6-10	CI	10657	0.24	7.50	0.9	1.65
6	6-6	GI	602	0.01	7.50	0.9	0.09
6	6-5	GI	6632	0.15	7.50	0.9	1.03
6	6-4	GI	2949	0.07	7.50	0.9	0.46
6	6-12	GI	3568	0.08	7.50	0.9	0.55
6	6-3	GI	4554	0.10	7.50	0.9	0.71
6	6-2	GI	11939	0.27	7.50	0.9	1.85
6	6-16	GI	5782	0.13	7.50	0.9	0.90
6	6-15	GI	1211	0.03	7.50	0.9	0.19
6	6-14	CI	2297	0.05	7.50	0.9	0.36
7	7-1	GI	8747	0.20	7.50	0.9	1.36
8	8-3	CI	47080	1.08	7.50	0.7	5.67
8	8-4	GI	1288	0.03	7.50	0.9	0.20
8	8-1	GI	3197	0.07	7.50	0.9	0.50
25	25-1	GI	4337	0.10	7.50	0.6	0.45

TABLE 6: PROPOSED RUNOFF DRAINAGE (DA) (1 OF 4)

HYDROLOGIC CALCULATIONS - PROPOSED RUNOFF BY DRAINAGE AREA (DA)							
Structure Information					Flow		
System	Inlet Number	Inlet Type	Area	Area	Intensity (I)	Runoff Coefficient (c)	Flow Rate (Q)
			(SF)	(AC)	(in/hr)	N/A	(cfs)
11	11-14	PT	43200	0.99	7.50	0.85	6.32
11	11-15	PT	1426	0.03	7.50	0.90	0.22
9	9-11	PT	21216	0.49	7.50	0.75	2.74
9	9-6	PT	1129	0.03	7.50	0.90	0.17
9	9-15	PT	1288	0.03	7.50	0.90	0.20
9	9-5	DCI	27836	0.64	7.50	0.65	3.12
9	9-4	DCI	25937	0.60	7.50	0.65	2.90
9	9-3	DI	9736	0.22	7.50	0.55	0.92
9	9-12	PT	1328	0.03	7.50	0.90	0.21
9	9-13	PT	1219	0.03	7.50	0.90	0.19
9	9-14	PT	3249	0.07	7.50	0.90	0.50
9	9-2	PT	8017	0.18	7.50	0.85	1.17
9	9-7	PT	1077	0.02	7.50	0.90	0.17
9	9-8	PT	1032	0.02	7.50	0.90	0.16
9	9-9	PT	2952	0.07	7.50	0.90	0.46
9	9-10	PT	4161	0.10	7.50	0.90	0.64
12	12-1	DA	3843	0.09	7.50	0.50	0.33
12	12-3	CI	21225	0.49	7.50	0.70	2.56
12	12-4	CI	25898	0.59	7.50	0.70	3.12
12	12-5	DI	8988	0.21	7.50	0.50	0.77
12	12-7	PT	5833	0.13	7.50	0.90	0.90
12	12-6A	PT	5317	0.12	7.50	0.90	0.82
12	12-2	PT	4375	0.10	7.50	0.85	0.64
12	12-36	PT	4386	0.10	7.50	0.90	0.68
12	12-8	CI	23532	0.54	7.50	0.65	2.63
12	12-10	DI	12028	0.28	7.50	0.55	1.14
12	12-9	CI	20603	0.47	7.50	0.65	2.31
12	12-11	PT	385	0.01	7.50	0.90	0.06
12	12-12	PT	10885	0.25	7.50	0.90	1.69
12	12-14	PT	6471	0.15	7.50	0.90	1.00
12	12-13	DI	7797	0.18	7.50	0.90	1.21
12	12-15	PT	33070	0.76	7.50	0.75	4.27
12	12-16	PT	22957	0.53	7.50	0.70	2.77
12	12-17	PT	18058	0.41	7.50	0.70	2.18
12	12-42	PT	4024	0.09	7.50	0.90	0.62
12	12-43	PT	2500	0.06	7.50	0.90	0.39
12	12-44	PT	987	0.02	7.50	0.90	0.15
12	12-45	PT	1014	0.02	7.50	0.90	0.16
12	12-46	PT	2590	0.06	7.50	0.90	0.40

TABLE 7: PROPOSED RUNOFF DRAINAGE (DA) (2 OF 4)

HYDROLOGIC CALCULATIONS - PROPOSED RUNOFF BY DRAINAGE AREA (DA)							
Structure Information					Flow		
System	Inlet Number	Inlet Type	Area	Area	Intensity (I)	Runoff Coefficient (c)	Flow Rate (Q)
			(SF)	(AC)	(in/hr)	N/A	(cfs)
12	12-47	PT	4246	0.10	7.50	0.90	0.66
12	12-48	PT	4092	0.09	7.50	0.90	0.63
12	12-49	PT	3577	0.08	7.50	0.90	0.55
12	12-50	PT	4267	0.10	7.50	0.90	0.66
12	12-51	PT	3347	0.08	7.50	0.90	0.52
12	12-52	PT	6637	0.15	7.50	0.90	1.03
12	12-19	DI	24126	0.55	7.50	0.70	2.91
12	12-18	GI	19384	0.44	7.50	0.65	2.17
12	12-20	CI	17000	0.39	7.50	0.65	1.90
12	12-22	DI	50947	1.17	7.50	0.60	5.26
12	12-21	GI	14055	0.32	7.50	0.85	2.06
12	12-23	CI	17357	0.40	7.50	0.90	2.69
12	12-24	DI	19458	0.45	7.50	0.90	3.02
12	12-38	DI	2380	0.05	7.50	0.50	0.20
12	12-37	PT	7759	0.18	7.50	0.90	1.20
12	12-25	PT	1058	0.02	7.50	0.90	0.16
12	12-27	AI	2092	0.05	7.50	0.90	0.32
12	12-39	GI	1459	0.03	7.50	0.90	0.23
12	12-40	GI	1075	0.02	7.50	0.90	0.17
12	12-29	GI	4115	0.09	7.50	0.90	0.64
12	12-30	DI	1084	0.02	7.50	0.90	0.17
12	12-34	GI	6030	0.14	7.50	0.90	0.93
12	12-33	DI	1518	0.03	7.50	0.80	0.21
12	12-35	DI	5017	0.12	7.50	0.65	0.56
12	12-41	GI	1083	0.02	7.50	0.90	0.17
12	12-32	DI	14992	0.34	7.50	0.90	2.32
14	14-3	PT	9414	0.22	7.50	0.90	1.46
14	14-2	PT	7453	0.17	7.50	0.90	1.15
14	14-1	PT	7210	0.17	7.50	0.90	1.12
15	15-2	CI	62466	1.43	7.50	0.90	9.68
15	15-3	CI	2086	0.05	7.50	0.90	0.32
15	15-1	GI	2040	0.05	7.50	0.90	0.32
18	18-4A	GI	12014	0.28	7.50	0.90	1.86
18	18-1	DI	3085	0.07	7.50	0.90	0.48
18	18-7	PD	16826	0.39	7.50	0.85	2.46
18	18-8	PD	1229	0.03	7.50	0.90	0.19
18	18-9	PD	2175	0.05	7.50	0.70	0.26
18	18-9B	PD	8850	0.20	7.50	0.75	1.14
18	18-13	CI	13671	0.31	7.50	0.85	2.00

TABLE 8: PROPOSED RUNOFF DRAINAGE (DA) (3 OF 4)

LAYOUT	CWW	12/2024
DRAWN	SMC	12/2024
REVIEWED	DJK	12/2024

MSD BASEMAP NUMBERS: 29H1

MSD PROJECT NUMBER: 24-MSD-00480

DRAINAGE AREA SUMMARY SHEETS
SHEET 3 OF 4

STATE OF MISSOURI
DENNIS J KOSCIELSKI
NUMBER PE-2005000712
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED: 7/25/2025

ROUTE	STATE
231	MO

DISTRICT	SHEET NO.
SL	193

COUNTY: ST. LOUIS

JOB NO.: J6S3631

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

DESCRIPTION	DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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1-888-ASK-MODOT (1-888-275-6636)

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HYDROLOGIC CALCULATIONS - PROPOSED RUNOFF BY DRAINAGE AREA (DA)							
Structure Information					Flow		
System	Inlet Number	Inlet Type	Area	Area	Intensity (I)	Runoff Coefficient (c)	Flow Rate (Q)
			(SF)	(AC)	(in/hr)	N/A	(cfs)
18	18-12A	GI	2378	0.05	7.50	0.90	0.37
18	18-12	GI	15917	0.37	7.50	0.90	2.47
18	18-16	GI	21546	0.49	7.50	0.90	3.34
18	18-15	GI	14019	0.32	7.50	0.90	2.17
18	18-14	CI	2254	0.05	7.50	0.50	0.19
16	16-2	CI	8203	0.19	7.50	0.80	1.13
16	16-1	CI	1848	0.04	7.50	0.90	0.29
16	16-3	GI	3323	0.08	7.50	0.90	0.51
17	17-1	CI	1275	0.03	7.50	0.90	0.20
17	17-3	GI	1596	0.04	7.50	0.90	0.25
17	17-2	GI	477	0.01	7.50	0.90	0.07
19	19-3	CI	9304	0.21	7.50	0.90	1.44
19	19-2	CI	6999	0.16	7.50	0.85	1.02
19	19-1	CI	4394	0.10	7.50	0.90	0.68
20	20-1	CI	866	0.02	7.50	0.90	0.13
20	20-2	CI	41930	0.96	7.50	0.90	6.50
21	21-4	GI	102110	2.34	7.50	0.90	15.82
21	21-3A	GT	2530	0.06	7.50	0.90	0.39
21	21-1A	GI	111176	2.55	7.50	0.90	17.23
22	22-2	CI	3237	0.07	7.50	0.90	0.50
22	22-1	CI	880	0.02	7.50	0.90	0.14
23	23-2	CI	48698	1.12	7.50	0.75	6.29
23	23-1	CI	63899	1.47	7.50	0.60	6.60
24	24-10	CGCI	28852	0.66	7.50	0.80	3.97
24	24-8	CGCI	61958	1.42	7.50	0.90	9.60
24	24-9	CGCI	353	0.01	7.50	0.90	0.05
24	24-6	CGCI	398	0.01	7.50	0.90	0.06
24	24-7	DI	24771	0.57	7.50	0.85	3.63
24	24-4	CI	20855	0.48	7.50	0.90	3.23
24	24-5	DI	3164	0.07	7.50	0.90	0.49
24	24-3	CI	1710	0.04	7.50	0.90	0.26
24	24-2	CGCI	5642	0.13	7.50	0.90	0.87
24	24-1	CGCI	273	0.01	7.50	0.90	0.04
FES	1-1	FES	7075	0.16	7.50	0.90	1.10
FES	1-3	FES	9047	0.21	7.50	0.90	1.40
FES	1-6	FES	1141	0.03	7.50	0.50	0.10
FES	1-8	FES	764	0.02	7.50	0.50	0.07
FES	1-10	FES	3433	0.08	7.50	0.50	0.30
FES	1-12	FES	913	0.02	7.50	0.50	0.08
FES	1-13	FES	744	0.02	7.50	0.50	0.06
FES	1-15	FES	477	0.01	7.50	0.50	0.04

TABLE 9: PROPOSED RUNOFF DRAINAGE (DA) (4 OF 4)

HYDROLOGIC CALCULATIONS - PROPOSED RUNOFF BY DRAIN OFF AREAS (DO)					
Structure Information			Flow		
Area Number	Area	Area	Intensity (I)	Runoff Coefficient (c)	Flow Rate (Q)
	(SF)	(AC)	(in/hr)	N/A	(cfs)
1	99176	2.28	7.50	0.70	11.95
2	46500	1.07	7.50	0.70	5.60
3	128475	2.95	7.50	0.90	19.91
4	24935	0.57	7.50	0.85	3.65
5	39332	0.90	7.50	0.80	5.42
6	35958	0.83	7.50	0.80	4.95
7	77547	1.78	7.50	0.85	11.35
8	1647109	37.81	7.50	0.70	198.52
9	31956	0.73	7.50	0.85	4.68
10	14344	0.33	7.50	0.75	1.85
11	16026	0.37	7.50	0.90	2.48
12	5503	0.13	7.50	0.90	0.85
13	15952	0.37	7.50	0.85	2.33
14	19200	0.44	7.50	0.85	2.81
15	43085	0.99	7.50	0.90	6.68
16	55391	1.27	7.50	0.80	7.63

TABLE 10: PROPOSED RUNOFF DRAINAGE (DO)

LAYOUT	CWW	12/2024
DRAWN	SMC	12/2024
REVIEWED	DJK	12/2024

MSD BASEMAP NUMBERS
29H1

MSD PROJECT NUMBER
24-MSD-00480

DRAINAGE AREA SUMMARY SHEETS
SHEET 4 OF 4

STATE OF MISSOURI
DENNIS J KOSCIELSKI
NUMBER PE-2005000712
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED
7/25/2025

ROUTE	STATE
231	MO
DISTRICT	SHEET NO.
SL	194

COUNTY
ST. LOUIS

JOB NO.
J6S3631

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

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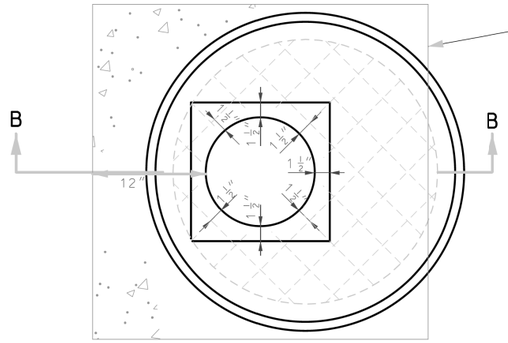
DESCRIPTION	DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

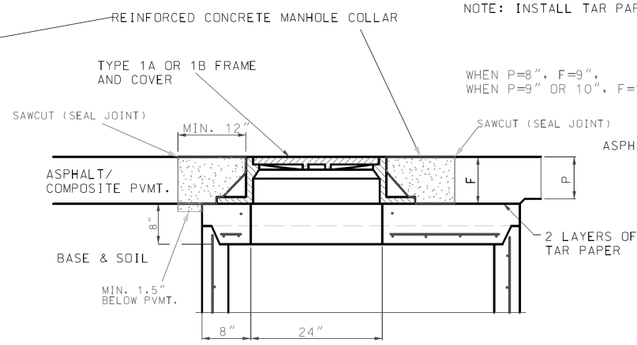
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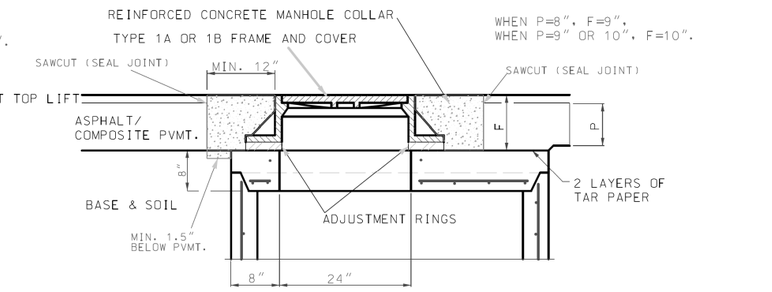
PLAN OF FLAT SLAB MANHOLE TOP



FLAT SLAB MANHOLE TOP (PAVED AREA)

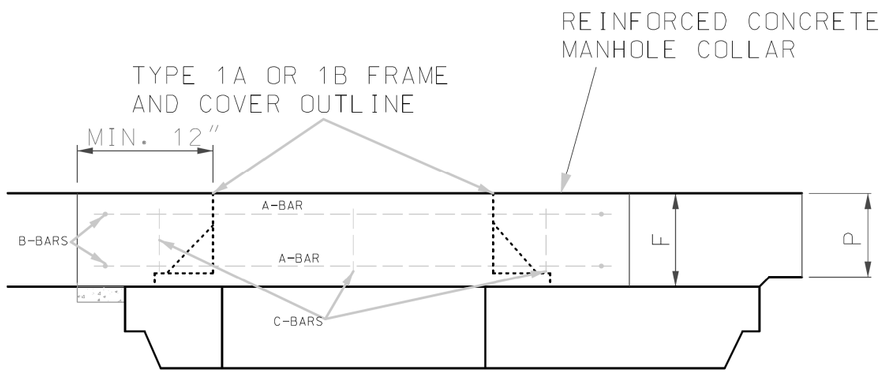
SECTION B-B

NOTE: INSTALL TAR PAPER BETWEEN FRAME & COVER AND THE NEW CONCRETE MANHOLE COLLAR AS DIRECTED BY THE ENGINEER.



FLAT SLAB MANHOLE TOP (PAVED AREA) W/ ADJUSTMENT RINGS NEXT TO ASPHALT OVERLAY

SECTION B-B

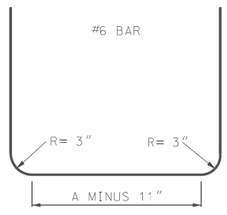


SECTION B-B

COLLAR REINFORCEMENT DETAIL

DISCLAIMER

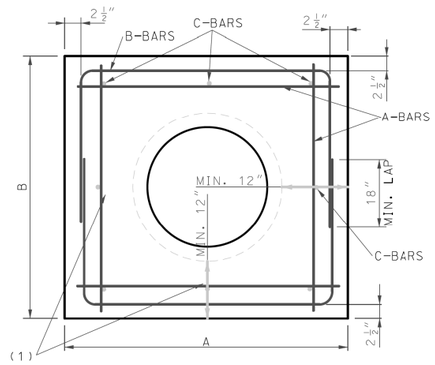
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FOR MANHOLE COLLAR

BENDING DIAGRAM FOR B-BARS

(1) PROVIDE MIN. 4.75" CLEARANCE BETWEEN REINFORCING & MANHOLE FRAME & COVER OR CIRCULAR PRECAST MANHOLE.

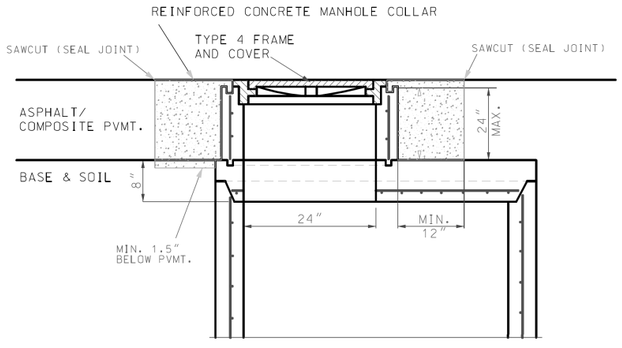


TOP VIEW OF MANHOLE COLLAR WITH REINFORCEMENT

NOTE: INSTALL 'C' BARS VERTICALLY INTO MANHOLE COLLAR CONCRETE. PROVIDE MIN. 1.5" CLEARANCE FROM TOP OF PAVEMENT & BOTTOM OF COLLAR. LENGTH OF 'C' BARS FOR 'F' DIMENSION SHALL BE 6". BAR LENGTH MAY VARY. 'C' BARS SHALL BE TIED TO 'A' REINFORCEMENT. 'B' BARS SHALL BE TIED TO 'A' REINFORCEMENT. 'A' BAR REINFORCEMENT SHALL HAVE 1.5" CLEARANCE TO EDGE OF COLLAR.

GENERAL NOTES:

1. IF MANHOLE STRUCTURE DOES NOT HAVE FRAME & COVER BUT INSTEAD THE ENTIRE STRUCTURE REACHES THE TOP OF ROADWAY, THEN THIS SHEET SHALL NOT BE USED.
2. THIS SHEET SHALL TYPICALLY BE USED WHERE THE MANHOLE FRAME & COVER NEED TO BE RAISED TO GRADE, BUT CAN BE USED FOR NEW STRUCTURES AS WELL, PARTICULARLY FOR STRUCTURES INSTALLED WITHIN ASPHALT PAVEMENT.
3. THE CONTRACTOR SHALL USE 2 LAYERS OF 'A' & 'B' BAR REINFORCEMENT AS LONG AS 'F' THICKNESS NOTED ABOVE IS GREATER THAN OR EQUAL TO 9".
4. PAYMENT FOR REINFORCED CONCRETE MANHOLE COLLAR SHALL INCLUDE ALL NECESSARY REINFORCEMENT AND SAW CUTS OF EXISTING OR PROPOSED PAVEMENT. CONCRETE MANHOLE COLLAR INCIDENTAL TO ADJUST TO GRADE MANHOLE, SEE JSP'S.
5. MIN. DIMENSIONS OF 'A' AND 'B' IS THE FOLLOWING: 12" WALL + MANHOLE (INCLUDING WALL THICKNESS) + 12".
6. CONTRACTOR SHALL PROVIDE EITHER A SQUARE OR RECTANGLE SHAPED FULL DEPTH SAWCUT AROUND THE CONCRETE MANHOLE COLLAR AFTER CONSTRUCTION. THE MIN. WIDTH SHALL BE 12" BUT MAY VARY. THE CONTRACTOR SHALL NOT DO A CIRCULAR SAWCUT AROUND THE REINFORCED CONCRETE MANHOLE COLLAR.
7. CONCRETE USED FOR MANHOLE COLLAR SHALL BE THE SAME AS THAT USED FOR FULL DEPTH PAVEMENT REPAIRS. PLEASE SEE SECTION 613.10 OF THE STANDARD SPECIFICATIONS FOR ADDITIONAL DETAILS. CONTRACTOR MAY BE ALLOWED TO USE HIGH EARLY STRENGTH CONCRETE, WITH APPROVAL FROM THE ENGINEER.
8. THE CONTRACTOR SHALL RAISE THE MANHOLE FRAME & COVER USING CONCRETE RINGS AND APPROVED MECHANICAL ADJUSTMENT DEVICES TO FINISH GRADE MATCHING PROFILE AND CROSS SLOPE.
9. REINFORCING BARS IN PAVEMENT SHALL BE EPOXY COATED AND SECURELY TIED TOGETHER AND FASTENED TO AVOID ANY POSSIBLE DISPLACEMENT DURING THE PLACING OF CONCRETE.
10. NO DIRECT PAYMENT WILL BE MADE FOR PROVIDING, CUTTING OR BENDING REINFORCING STEEL.
11. THE CONTRACTOR SHALL SEAL JOINTS FORMED BETWEEN THE INTERFACE OF THE NEW COLLAR AND THE ASPHALT PAVEMENT ALONG WITH JOINTS CREATED BY THE OVERCUT OF SAWING FOR THE REMOVAL OF PAVEMENT. SEE THE JSP FOR ADDITIONAL INFORMATION.



ALTERNATE MANHOLE TOP

MANHOLE COLLAR FOR ASPHALT PAVING

DRAINAGE STRUCTURE DETAILS
SHEET 1A OF 5

LAYOUT	CWW	12/2024
DRAWN	SMC	12/2024
REVIEWED	DJK	12/2024

STATE OF MISSOURI
HOWARD NELSON GOTSCHALL II
NUMBER PE-2004000786
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED 6/13/2025

ROUTE	STATE
231	MO
DISTRICT	SHEET NO.
SL	195A

COUNTY: ST. LOUIS
JOB NO.: J6S3631
CONTRACT ID.:
PROJECT NO.:
BRIDGE NO.:

DESCRIPTION	DATE

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

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St. Louis, Missouri 63101
Professional Engineer 001632
www.hanson-inc.com
314.770.0467

GENERAL NOTES:

1. CONTRACTOR SHALL VERIFY ALL DIMENSIONS BEFORE ORDERING MATERIALS.
2. EXCAVATION WILL BE INCIDENTAL TO CONCRETE SIDEWALK.
3. REINFORCING BARS SHALL BE EPOXY COATED AND SECURELY TIED TOGETHER AND FASTENED TO AVOID ANY POSSIBLE DISPLACEMENT DURING THE PLACING OF CONCRETE. REINFORCEMENT SHOWN IS IN ADDITION TO ANY REINFORCEMENT SHOWN FOR CONCRET PAVEMENT OR CURB AND GUTTER.
4. JOINTS SHALL BE SEALED IN ACCORDANCE WITH SECTION 726.3.1 OF THE STANDARD SPECIFICATIONS.
5. THE CONTRACTOR WILL BE PERMITTED TO CAST IN PLACE THE PASS DOWNS.
6. WELDED WIRE REINFORCEMENT MAY BE USED IN LIEU OF REINFORCING BARS, THE REINFORCEMENT SHALL NOT BE LESS THAN 0.23 SQUARE INCHES PER LINEAR FOOT BOTH HORIZONTALLY AND VERTICALLY.
7. NO DIRECT PAYMENT WILL BE MADE FOR REINFORCING STEEL.
8. NO DIRECT PAYMENT WILL BE MADE FOR FORMING FOR CURVED VANE GRATES AND FRAMES.
9. ALL DIMENSIONS ARE OUT TO OUT.
10. HOOKS AND BENDS SHALL BE IN ACCORDANCE WITH THE CRSI MANUAL OF STANDARD PRACTICE FOR DETAILING REINFORCED CONCRETE STRUCTURES, STIRRUP AND TIE DIMENSIONS.
11. ACTUAL BAR LENGTHS ARE MEASURED ALONG CENTERLINE OF BAR TO THE NEAREST INCH.
12. MINIMUM CLEARANCE TO REINFORCING SHALL BE 2", UNLESS OTHERWISE SHOWN.
13. FABRICATOR SHALL BE RESPONSIBLE FOR LOCATION AND DESIGN OF LIFTING DEVICES.

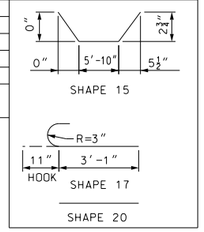
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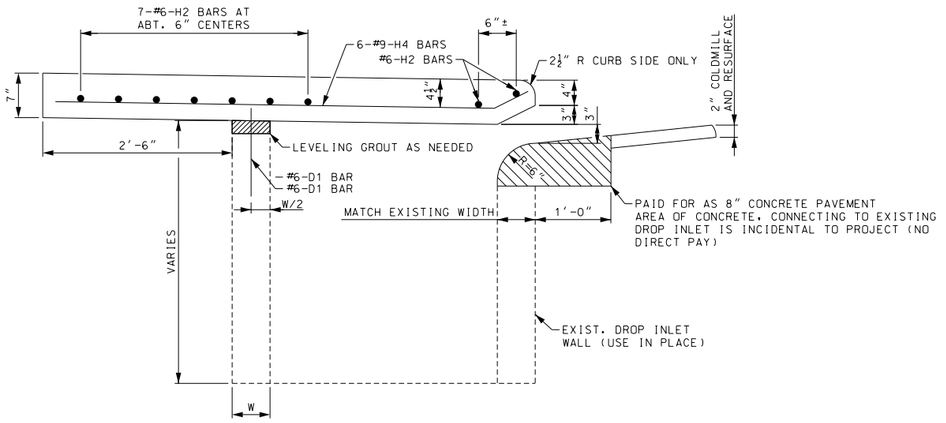
CLASS B-1 CONCRETE f'c = 4,000 PSI
REINFORCING STEEL (GRADE 60) fy = 60,000 PSI

BILL OF MATERIALS

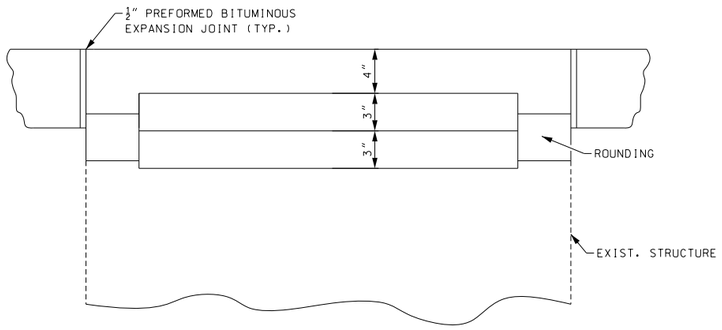
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9	6	H2	20	4'-8"	
2	6	D1	20	1'-2"	
2	8	H3	17	3'-7"	
6	9	H4	15	6'-4"	

1 CU YD CLASS B-1 CONCRETE
240 LBS. REINFORCED STEEL





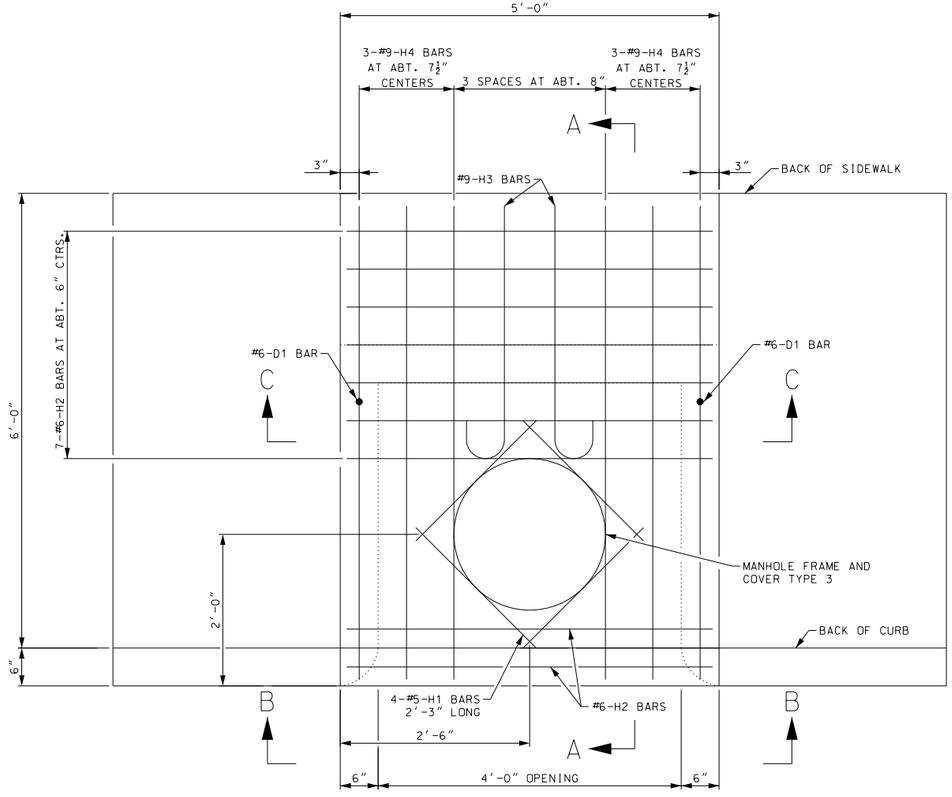
SECTION A-A



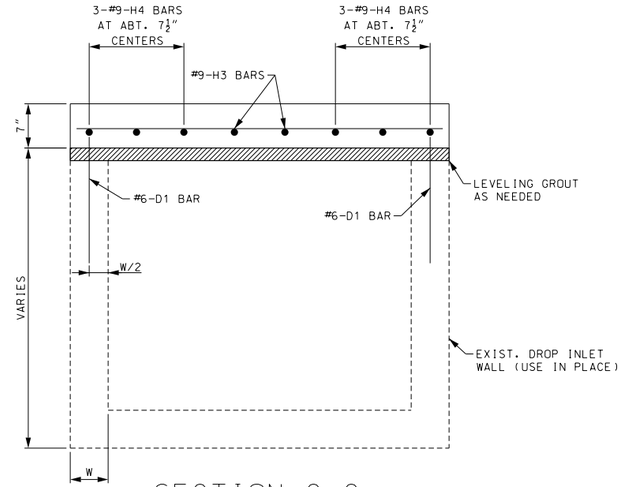
SECTION B-B

DETAILS OF OPENING

NOT TO SCALE



PLAN SHOWING REINFORCEMENT



SECTION C-C

PASS DOWN

DRAINAGE STRUCTURE DETAILS
SHEET 1B OF 5

LAYOUT	CWW	12/2024
DRAWN	SMC	12/2024
REVIEWED	DJK	12/2024

MSD BASEMAP NUMBERS	MSD PROJECT NUMBER
29H1	24-MSD-00480

STATE OF MISSOURI
HOWARD NELSON GOTSCHALL II
NUMBER PE-2004000786
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED
7/25/2025

ROUTE	STATE
231	MO
DISTRICT	SHEET NO.
SL	195

COUNTY
ST. LOUIS

JOB NO.
J6S3631

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DATE	DESCRIPTION

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL
JEFFERSON CITY, MO 65102
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Professional Engineer 001632
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GENERAL NOTES:

1. CONTRACTOR SHALL VERIFY ALL DIMENSIONS IN FIELD BEFORE ORDERING MATERIALS.
2. EXCAVATION WILL BE INCIDENTAL TO CONCRETE SIDEWALK.
3. REINFORCING BARS SHALL BE EPOXY COATED AND SECURELY TIED TOGETHER AND FASTENED TO AVOID ANY POSSIBLE DISPLACEMENT DURING THE PLACING OF CONCRETE. REINFORCEMENT SHOWN IS IN ADDITION TO ANY REINFORCEMENT SHOWN FOR CONCRET PAVEMENT OR CURB AND GUTTER.
4. JOINTS SHALL BE SEALED IN ACCORDANCE WITH SECTION 726.3.1 OF THE STANDARD SPECIFICATIONS.
5. THE CONTRACTOR WILL BE PERMITTED TO CAST IN PLACE THE PASS THROUGH.
6. WELDED WIRE REINFORCEMENT MAY BE IN LIEU OF REINFORCING BARS. THE REINFORCEMENT SHALL NOT BE LESS THAN 0.23 SQUARE INCHES PER LINEAR FOOT BOTH HORIZONTALLY AND VERTICALLY.
7. NO DIRECT PAYMENT WILL BE MADE FOR REINFORCING STEEL.
8. NO DIRECT PAYMENT WILL BE MADE FOR FORMING FOR CURVED VANE GRATES AND FRAMES.
9. ALL DIMENSIONS ARE OUT TO OUT.
10. HOOKS AND BENDS SHALL BE IN ACCORDANCE WITH THE CRSI MANUAL OF STANDARD PRACTICE FOR DETAILING REINFORCED CONCRETE STRUCTURES, STIRRUP AND TIE DIMENSIONS.
12. ACTUAL BAR LENGTHS ARE MEASURED ALONG CENTERLINE OF BAR TO THE NEAREST INCH.
13. MINIMUM CLEARANCE TO REINFORCING SHALL BE 2". UNLESS OTHERWISE SHOWN.
13. FABRICATOR SHALL BE RESPONSIBLE FOR LOCATION AND DESIGN OF LIFTING DEVICES.

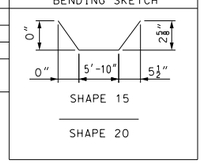
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CLASS B-1 CONCRETE f'c = 4,000 PSI
REINFORCING STEEL (GRADE 60) fy = 60,000 PSI

BILL OF MATERIALS

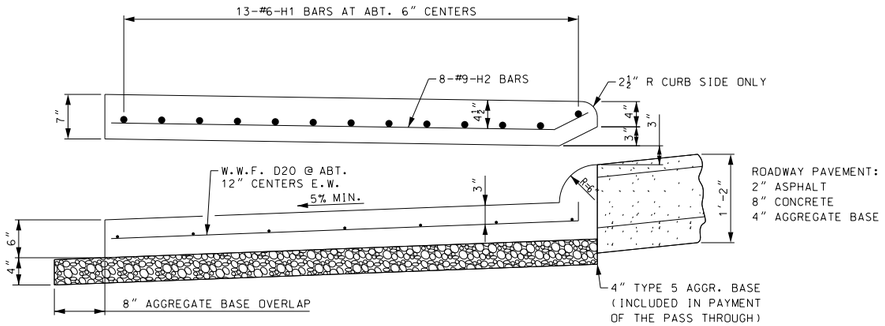
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8	9	H2	15	6'-4"	
1	D20	-	-	6'-4"	

2 CU YDS CLASS B-1 CONCRETE
255 LBS. REINFORCED STEEL

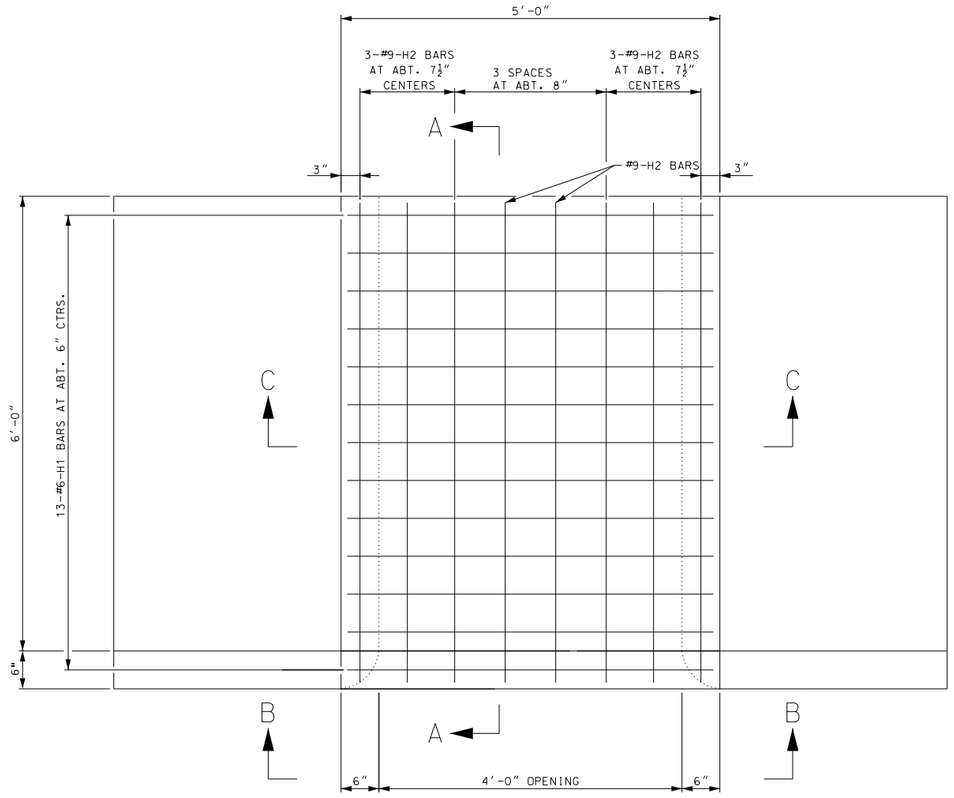


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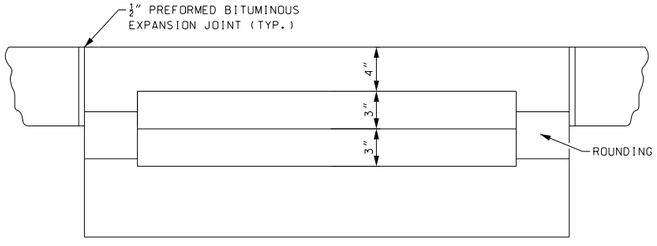
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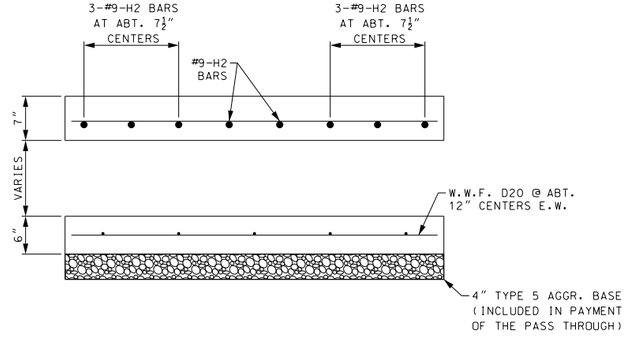
SECTION A-A



PLAN SHOWING REINFORCEMENT



SECTION B-B
DETAILS OF OPENING
NOT TO SCALE



SECTION C-C

PASS THROUGH

LAYOUT	CWW	12/2024
DRAWN	SMC	12/2024
REVIEWED	DJK	12/2024

MSD BASEMAP NUMBERS	MSD PROJECT NUMBER
29H1	24-MSD-00480

DRAINAGE STRUCTURE DETAILS
SHEET 2 OF 5

STATE OF MISSOURI
HOWARD NELSON GOTSCHALL II
NUMBER PE-2004000786
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED
7/25/2025

ROUTE	STATE
231	MO
DISTRICT	SHEET NO.
SL	196

COUNTY
ST. LOUIS

JOB NO.
J6S3631

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION	DATE

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL
JEFFERSON CITY, MO 65102
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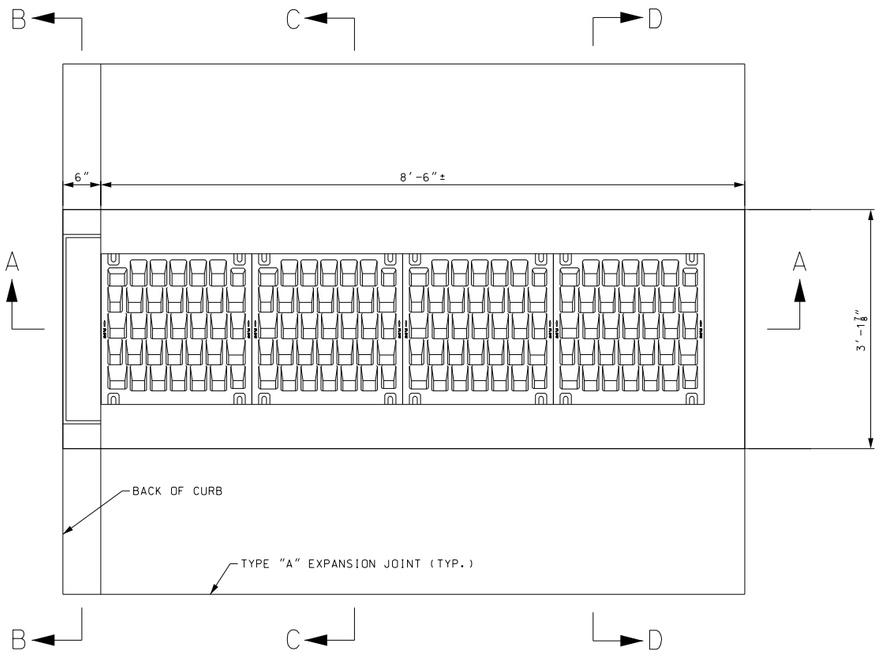
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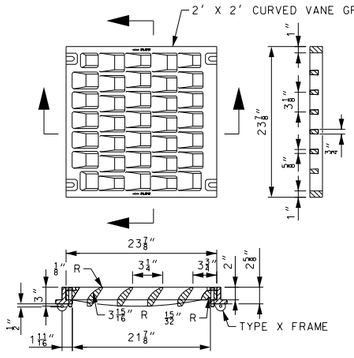
CLASS B-1 CONCRETE f'c = 4.000 PSI
REINFORCING STEEL (GRADE 60) fy = 60.000 PSI

STRUCTURE ID	"D"	CIP CONCRETE (CY)	CIP REBAR (LBS)	PRECAST CONCRETE (CY)	PRECAST REBAR (LBS)
1-8 GT	1'-1"	9	210	2	100
1-10 GT	1'-1"	9	210	2	100
2-9 GT	6'-4"	9	210	4	250
2-11 GT	4'-10"	9	210	3	210
10-4 GT	1'-9"	9	210	2	130
10-5 GT	1'-11"	9	210	2	130
21-3A GT	1'-10"	9	210	2	130

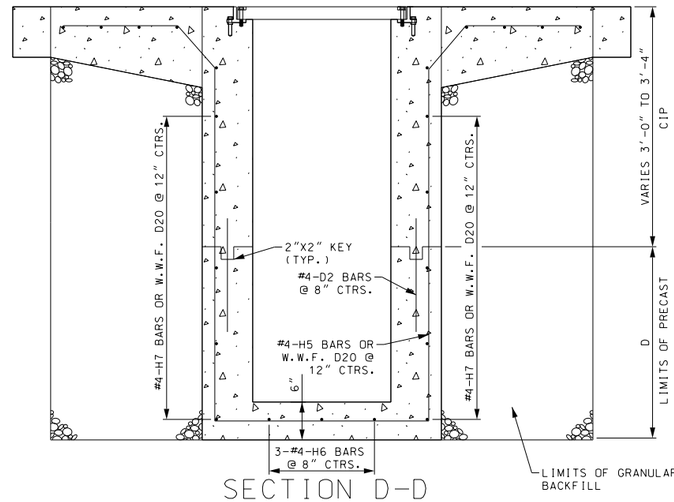
GENERAL NOTES:
1. CONTRACTOR SHALL VERIFY ALL DIMENSIONS IN FIELD BEFORE ORDERING MATERIALS.
2. ALL MATERIAL SHALL CONFORM TO "MISSOURI STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION".
3. ALL REINFORCING BARS REQUIRING A SPLICE SHALL BE OVER LAPPED A MINIMUM OF 24 DIAMETERS.
4. GRATES AND BEARING PLATES SHALL CONFORM WITH THE JOB SPECIAL PROVISIONS.
5. GRATES AND FRAMES SHALL BE PLACED AS A UNIT PRIOR TO POURING TOP PORTION OF STRUCTURE.
6. GRATES TO BE CONSTRUCTED OF CAST GRAY IRON AND MEET REQUIREMENTS OF AASHTO M 306. MINOR VARIATIONS IN VANE SHAPE TO MEET MANUFACTURER'S STANDARD PRACTICE ARE PERMITTED.
7. ALL DIMENSIONS ARE OUT TO OUT.
8. HOOKS AND BENDS SHALL BE IN ACCORDANCE WITH THE CRSI MANUAL OF STANDARD PRACTICE FOR DETAILING REINFORCED CONCRETE STRUCTURES, STIRRUP AND TIE DIMENSIONS.
9. ACTUAL BAR LENGTHS ARE MEASURED ALONG CENTERLINE OF BAR TO THE NEAREST INCH.
10. MINIMUM CLEARANCE TO REINFORCING SHALL BE 2", UNLESS OTHERWISE SHOWN.
11. FABRICATOR SHALL BE RESPONSIBLE FOR LOCATION AND DESIGN OF LIFTING DEVICES.
12. STEPS SHALL BE PLACED AT VERTICAL INTERVALS OF 16" MAXIMUM IN ALL INLETS HAVING A DEPTH OF MORE THAN 4 FEET. STEPS SHALL BEGIN AT AN ELEVATION 6" ABOVE THE TOP OF THE OUTLET PIPE.
13. STEPS SHALL BE SET LEVEL AND IN VERTICAL ALIGNMENT AND NOT NEARER THAN 3" TO A JOINT.
14. NO DIRECT PAYMENT WILL BE MADE FOR INLET STEPS.
15. INSTALL SILICONE JOINT SEALANT AS SHOWN AT COMPLETION OF VANE GRATE INSTALLATION.



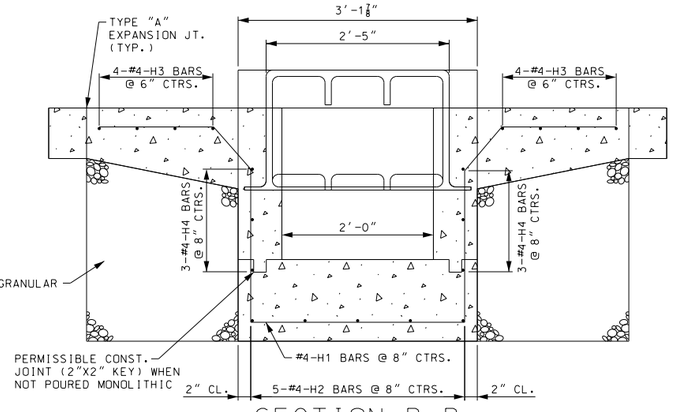
PLAN



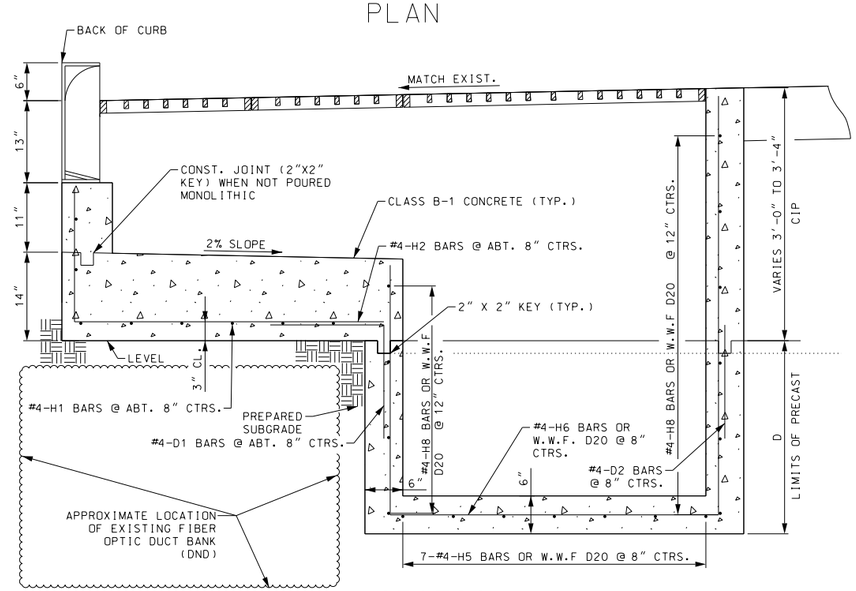
GRATE DETAIL



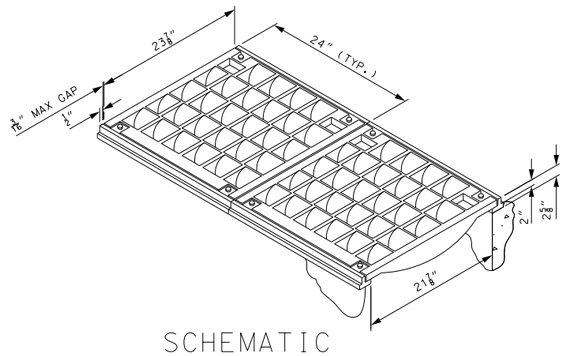
SECTION D-D



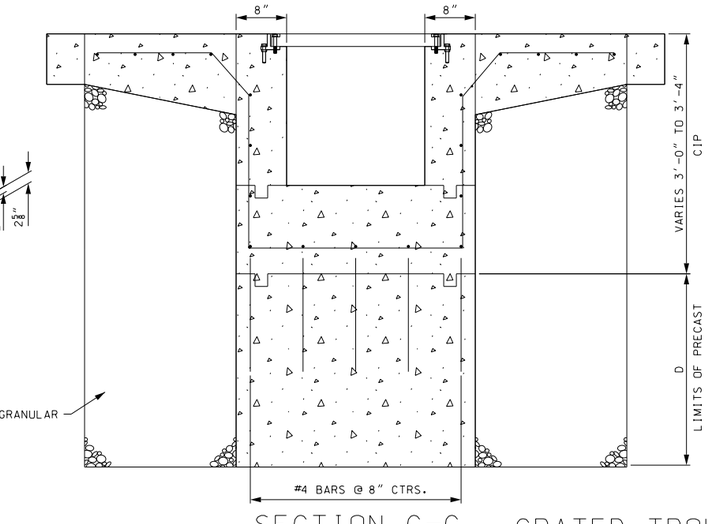
SECTION B-B



SECTION A-A



SCHEMATIC



SECTION C-C

GRATED TROUGH
DRAINAGE STRUCTURE DETAILS
SHEET 3 OF 5

LAYOUT	CWW	12/2024
DRAWN	SMC	12/2024
REVIEWED	DJK	12/2024

STATE OF MISSOURI
HOWARD NELSON GOTSCHALL II
NUMBER PE-2004000786
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED 7/25/2025

ROUTE	STATE
231	MO
DISTRICT	SHEET NO.
SL	197

COUNTY: ST. LOUIS
JOB NO.: J6S3631
CONTRACT ID.:
PROJECT NO.:
BRIDGE NO.:

DATE	DESCRIPTION

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

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St. Louis, Missouri 63101
Professional Engineer 001632
www.hanson-inc.com
314.770.0467

GENERAL NOTES:

1. CONTRACTOR SHALL VERIFY ALL DIMENSIONS BEFORE ORDERING MATERIALS.
2. EXCAVATION WILL BE INCIDENTAL TO CONCRETE SIDEWALK.
3. REINFORCING BARS SHALL BE EPOXY COATED AND SECURELY TIED TOGETHER AND FASTENED TO AVOID ANY POSSIBLE DISPLACEMENT DURING THE PLACING OF CONCRETE. REINFORCEMENT SHOWN IS IN ADDITION TO ANY REINFORCEMENT SHOWN FOR CONCRET PAVEMENT OR CURB AND GUTTER.
4. JOINTS SHALL BE SEALED IN ACCORDANCE WITH SECTION 726.3.1 OF THE STANDARD SPECIFICATIONS.
5. THE CONTRACTOR WILL BE PERMITTED TO CAST IN PLACE THE SLAB.
6. NO DIRECT PAYMENT WILL BE MADE FOR REINFORCING STEEL.
7. ALL DIMENSIONS ARE OUT TO OUT.
8. HOOKS AND BENDS SHALL BE IN ACCORDANCE WITH THE CRSI MANUAL OF STANDARD PRACTICE FOR DETAILING REINFORCED CONCRETE STRUCTURES. STIRRUP AND TIE DIMENSIONS.
9. ACTUAL BAR LENGTHS ARE MEASURED ALONG CENTERLINE OF BAR TO THE NEAREST INCH.
10. MINIMUM CLEARANCE TO REINFORCING SHALL BE 2", UNLESS OTHERWISE SHOWN.
11. FABRICATOR SHALL BE RESPONSIBLE FOR LOCATION AND DESIGN OF LIFTING DEVICES.

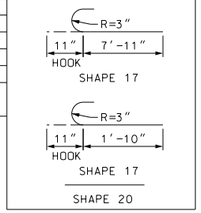
DESIGN UNIT STRESSES:

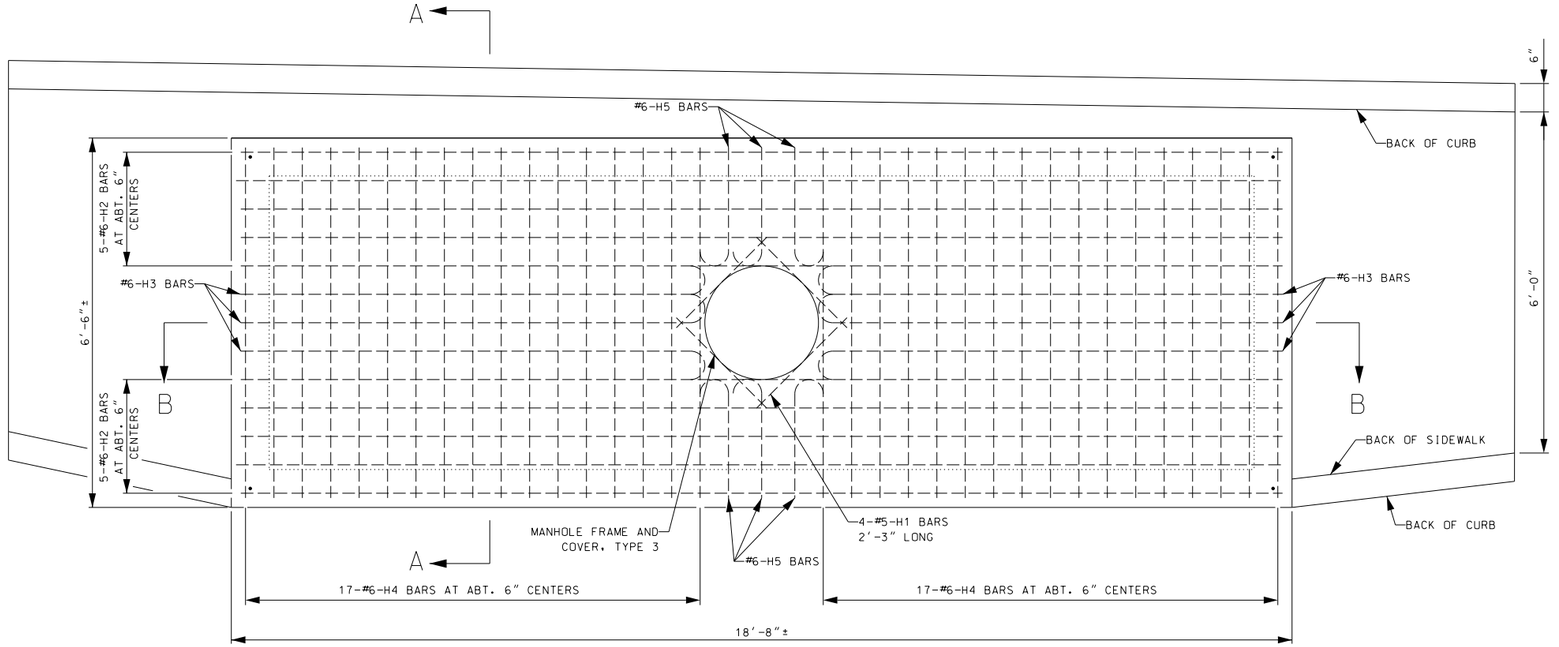
CLASS B-1 CONCRETE f'c = 4,000 PSI
REINFORCING STEEL (GRADE 60) fy = 60,000 PSI

BILL OF MATERIALS

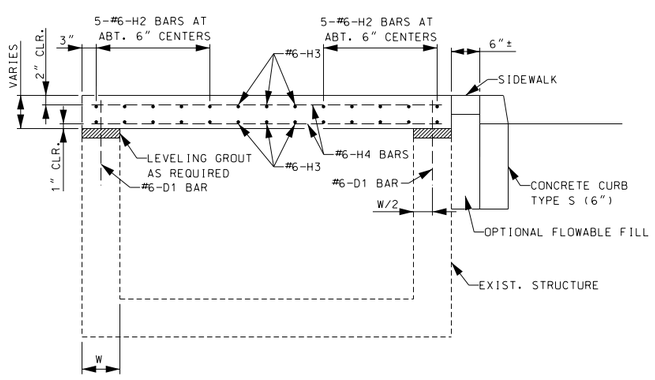
NO. REQ.	SIZE	MARK	SHAPE	LENGTH	BENDING SKETCH
8	5	H1	20	2'-3"	
20	6	H2	20	18'-4"	
12	6	H3	17	8'-10"	
68	6	H4	20	6'-2"	
12	6	H5	17	2'-9"	
4	6	D1	20	1'-6"	

3 CU YDS CLASS B-1 CONCRETE
1420 LBS. REINFORCED STEEL

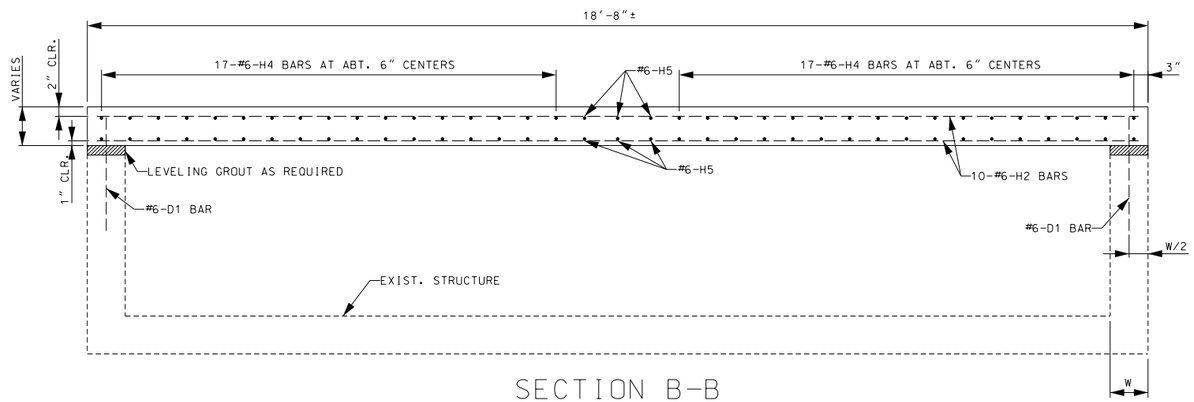




PLAN SHOWING REINFORCEMENT



SECTION A-A



SECTION B-B

EAST CONCRETE DRAINAGE STRUCTURE

DRAINAGE STRUCTURE DETAILS
SHEET 4 OF 5

LAYOUT	CWW	12/2024
DRAWN	SMC	12/2024
REVIEWED	DJK	12/2024

STATE OF MISSOURI
HOWARD NELSON GOTSCHALL II
NUMBER PE-2004000786
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED 7/25/2025
ROUTE 231 | STATE MO
DISTRICT SL | SHEET NO. 198
COUNTY ST. LOUIS
JOB NO. J6S3631
CONTRACT ID.
PROJECT NO.
BRIDGE NO.

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

DESCRIPTION | DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

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Hanson Professional Services Inc.
600 Washington Ave., Suite 950
St. Louis, Missouri 63101
Professional Engineer 001632
www.hanson-inc.com
314.770.0467

GENERAL NOTES:

1. CONTRACTOR SHALL VERIFY ALL DIMENSIONS IN FIELD BEFORE ORDERING MATERIALS.
2. EXCAVATION WILL BE INCIDENTAL TO CONCRETE SIDEWALK.
3. REINFORCING BARS SHALL BE EPOXY COATED AND SECURELY TIED TOGETHER AND FASTENED TO AVOID ANY POSSIBLE DISPLACEMENT DURING THE PLACING OF CONCRETE. REINFORCEMENT SHOWN IS IN ADDITION TO ANY REINFORCEMENT SHOWN FOR CONCRET PAVEMENT OR CURB AND GUTTER.
4. JOINTS SHALL BE SEALED IN ACCORDANCE WITH SECTION 726.3.1 OF THE STANDARD SPECIFICATIONS.
5. THE CONTRACTOR WILL BE PERMITTED TO CAST IN PLACE THE SLAB.
6. NO DIRECT PAYMENT WILL BE MADE FOR REINFORCING STEEL.
7. ALL DIMENSIONS ARE OUT TO OUT.
8. HOOKS AND BENDS SHALL BE IN ACCORDANCE WITH THE CRSI MANUAL OF STANDARD PRACTICE FOR DETAILING REINFORCED CONCRETE STRUCTURES. STIRRUP AND TIE DIMENSIONS.
9. ACTUAL BAR LENGTHS ARE MEASURED ALONG CENTERLINE OF BAR TO THE NEAREST INCH.
10. MINIMUM CLEARANCE TO REINFORCING SHALL BE 2", UNLESS OTHERWISE SHOWN.
11. FABRICATOR SHALL BE RESPONSIBLE FOR LOCATION AND DESIGN OF LIFTING DEVICES.

DESIGN UNIT STRESSES:

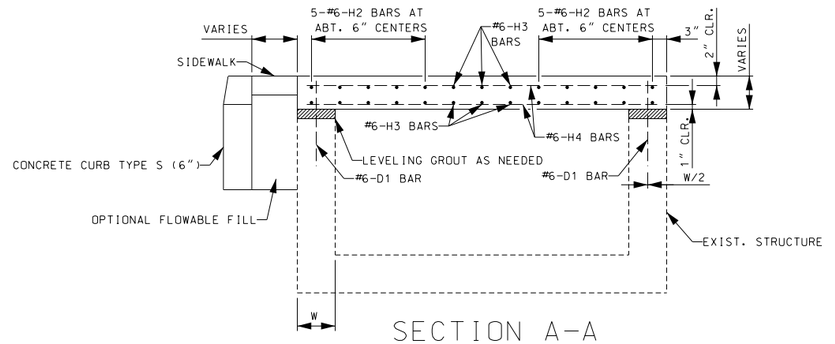
CLASS B-1 CONCRETE f'c = 4,000 PSI
REINFORCING STEEL (GRADE 60) fy = 60,000 PSI

BILL OF MATERIALS

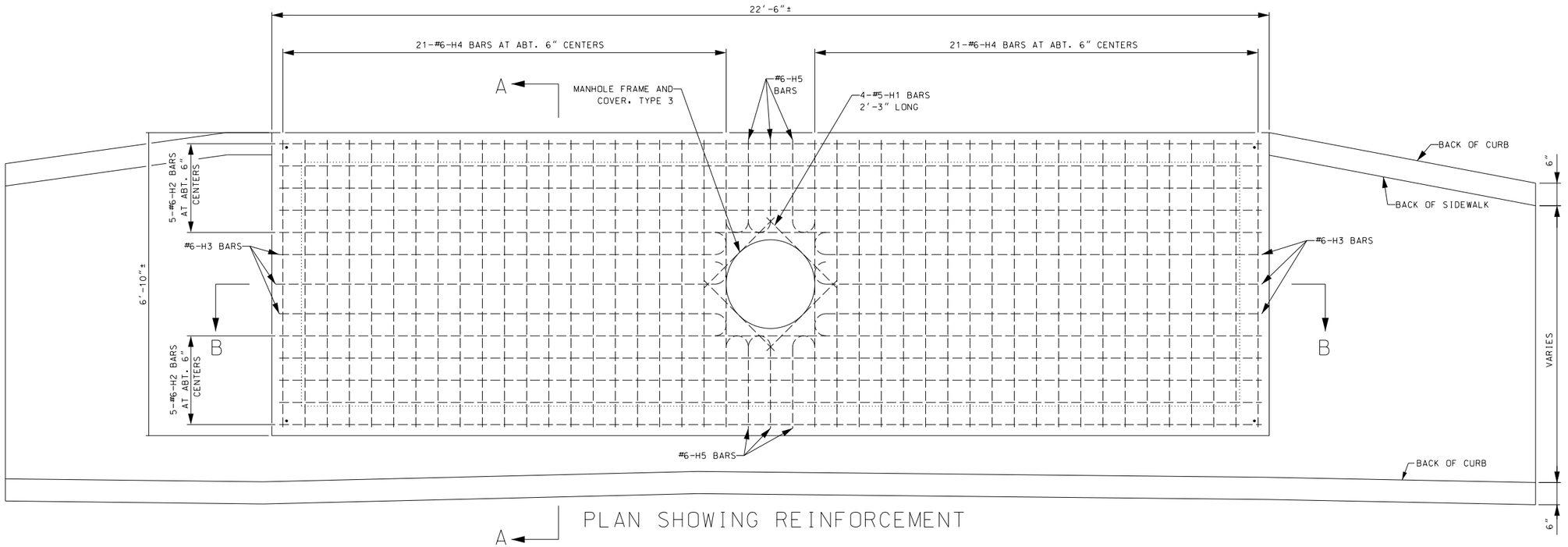
NO. REQ.	SIZE	MARK	SHAPE	LENGTH	BENDING SKETCH
8	5	H1	20	2'-3"	
20	6	H2	20	22'-2"	
12	6	H3	17	10'-9"	R=3", 11" HOOK, 9'-10", SHAPE 17
84	6	H4	20	6'-6"	
12	6	H5	17	2'-9"	
4	6	D1	20	1'-6"	R=3", 11" HOOK, 1'-10", SHAPE 17

5 CU YDS CLASS B-1 CONCRETE
1760 LBS. REINFORCED STEEL

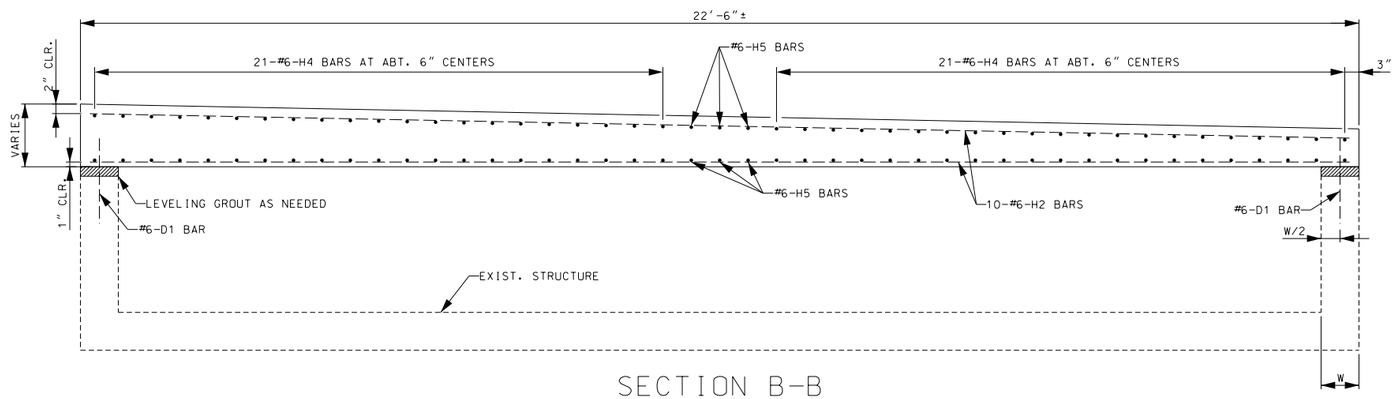
SHAPE 20



SECTION A-A



PLAN SHOWING REINFORCEMENT



SECTION B-B

WEST CONCRETE DRAINAGE STRUCTURE

DRAINAGE STRUCTURE DETAILS
SHEET 5 OF 5

LAYOUT	CWW	12/2024
DRAWN	SMC	12/2024
REVIEWED	DJK	12/2024

STATE OF MISSOURI
HOWARD NELSON GOTSCHALL II
NUMBER PE-2004000786
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED: 7/25/2025

ROUTE	STATE
231	MO
DISTRICT	SHEET NO.
SL	199

COUNTY: ST. LOUIS
JOB NO.: J6S3631
CONTRACT ID.:
PROJECT NO.:
BRIDGE NO.:

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

DESCRIPTION	DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
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Structure ID	Existing/Proposed Structure	MSD Number	Inlet Count	Inlet Size	Inlet Length	Inlet Width (w)	Grade Type	Curb Height	Roadway Cross-Slope (S_x)	Roadway Longitudinal Slope (S)	Hydrologic Method	Design Storm Frequency	Time of Concentration	Intensity	Splash Over Velocity (V_o)	Area of Frontal Flow (A_f)	Wetted Perimeter (P_f)	Unadjusted Conveyance in Front of Grate (K_u)	Adjusted Frontal Flow Subsection Conveyance (K_f)	Total Flow Conveyance (K)	Frontal Flow (Q_f)	Frontal Flow Velocity (V_f)	Frontal Flow Intercepted Ratio (R_f)	Portion of Intercepted Frontal Flow (Q_{fi})	Side Flow (Q_s)	Total Flow Area (A)	Area of Side Flow (A_s)	Velocity of Side Flow (V_s)	Side Flow Intercepted Ratio (R_s)	Portion of Intercepted Side Flow (Q_{si})	Intercepted Flow (Q_i)	Total Gutter Flow Rate (Q)	Bypass Flow (Q_{by})
					(FT)	(FT)		(in)	(%)	(%)	Equation Type	(Year)	(Min.)	(In/Hr)	(FT/S)	(FT^2)	(FT)	N/A	(N/A)	(N/A)	(CFS)	(FT/S)	N/A	(CFS)	(CFS)	(FT^2)	(FT^2)	(FT/S)	N/A	(CFS)	(CFS)	(CFS)	(CFS)
24-10	Existing	27G1-167D	Single	2' x 2'	2	2	On Grade	4	4.19%	1.43%	Rational Method	10	5	7.5	4.17	0.89	2.49	41.47	35.25	122.56	4.22	4.76	0.95	4.00	10.46	2.82	1.93	5.42	0.10	1.03	5.03	14.68	9.65
24-9	Existing	27G1-166D	Single	2' x 2'	2	2	On Grade	4	4.48%	1.43%	Rational Method	10	5	7.5	4.17	0.76	2.43	32.78	27.87	81.01	3.34	4.37	0.98	3.28	6.36	2.03	1.27	5.03	0.12	0.74	4.01	9.70	5.69
24-8	Existing	27G1-164D	Single	2' x 2'	2	2	On Grade	4	3.68%	1.20%	Rational Method	10	5	7.5	4.17	0.94	2.50	45.10	38.33	154.79	4.20	4.49	0.97	4.08	12.77	3.47	2.53	5.05	0.10	1.23	5.31	16.98	11.66
24-6	Existing	27G1-163D	Single	2' x 2'	2	2	On Grade	4	3.81%	1.20%	Rational Method	10	5	7.5	4.17	0.81	2.45	36.32	30.87	106.88	3.39	4.16	1.00	3.39	8.34	2.60	1.79	4.66	0.11	0.92	4.31	11.72	7.41
24-2	Existing	27G1-168D	Single	2' x 2'	2	2	On Grade	4	2.63%	1.82%	Rational Method	10	5	7.5	4.17	0.52	2.29	18.13	15.41	48.32	2.08	3.98	1.00	2.08	4.44	1.57	1.05	4.22	0.09	0.40	2.48	6.51	4.04
24-1	Existing	27G1-169D	Single	2' x 2'	2	2	On Grade	4	2.55%	1.82%	Rational Method	10	5	7.5	4.17	0.43	2.24	13.09	11.13	30.23	1.50	3.52	1.00	1.50	2.58	1.12	0.69	3.74	0.10	0.27	1.77	4.08	2.31

TABLE 1: EXIST. GCGI ON GRADE CALCULATIONS

Structure ID	Existing/Proposed Structure	MSD Number	Inlet Count	Inlet Size	Inlet Length	Inlet Width (w)	Grade Type	Grate Type	Curb Height	Roadway Cross-Slope (S_x)	Roadway Longitudinal Slope (S)	Hydrologic Method	Design Storm Frequency	Time of Concentration	Intensity	Sag Grate Inlet Constant (C_w)	Sag Grate Inlet Effective Perimeter (p)	Orifice Coefficient (C_o)	Clear Opening of Sag Grate (A)	Gravity (g)	Plugging Factor (PF)	Unblocked Weir Length (L_{eff})	Depth of Ponding for Weir (h_w)	Depth of Ponding for Orrifice (h_o)	Depth of Ponding at inlet (h)	Flow at Depth of 0.4 FT	Flow at Depth of 1.4 FT	Intercepted Flow (Q_i)	Total Gutter Flow Rate (Q)	Bypass Flow (Q_{by})
					(FT)	(FT)			(in)	(%)	(%)	Equation Type	(Year)	(Min.)	(In/Hr)	N/A	(FT)	N/A	(FT^2)	(FT/S^2)	N/A	(FT)	(FT)	(FT)	(FT)	(CFS)	(CFS)	(CFS)	(CFS)	(CFS)
18-7A	Existing	Unknown	Single	2' x 2'	2	2	Sag	Parallel	6	4.40%	0.00%	Rational Method	10	5	7.5	3.0	6.0	0.7	3.04	32.22	0.50	3.00	0.19	0.00	0.2	1.5	7.2	2.65	0.67	0

TABLE 2: EXIST. GCGI SAG CALCULATIONS

Structure ID	Existing/Proposed Structure	MSD Number	Inlet Count	Inlet Size	Inlet Length	Inlet Width (w)	Grade Type	Curb Height	Roadway Cross-Slope (S_x)	Roadway Longitudinal Slope (S)	Hydrologic Method	Design Storm Frequency	Time of Concentration	Intensity	Curb Opening Constant (K)	Required Curb Length to Intercept 100% (L_T)	Curb Opening Efficiency (E)	Intercepted Flow (Q_i)	Total Gutter Flow Rate (Q)	Bypass Flow (Q_{by})
					(FT)	(FT)		(in)	(%)	(%)	Equation Type	(Year)	(Min.)	(In/Hr)	N/A	(FT)	N/A	(CFS)	(CFS)	(CFS)
1-1	Existing	29H1-235D	Single	3.5'	3.5	0	On Grade	6	1.00%	3.00%	Rational Method	10	5	7.5	0.6	36.16	0.17	0.13	0.80	0.67
6-8	Existing	Unknown	Single	3.5'	3.5	0	On Grade	4	1.69%	1.79%	Rational Method	10	5	7.5	0.6	22.12	0.27	0.20	0.76	0.56
6-15	Existing	28H3-114D	Single	3.5'	3.5	0	On Grade	6	0.57%	0.77%	Rational Method	10	5	7.5	0.6	18.32	0.32	0.06	0.19	0.13
8-3	Existing	28H3-113D	Single	3.5'	3.5	0	On Grade	3	3.21%	5.98%	Rational Method	10	5	7.5	0.6	50.27	0.12	0.69	5.67	4.98
8-2	Existing	28H3-0202D	Single	3.5'	3.5	0	On Grade	3	0.67%	3.64%	Rational Method	10	5	7.5	0.6	99.52	0.06	0.27	4.36	4.09
9-5	Existing	28H3-040D	Double	3.5'	7.0	0	On Grade	3	3.33%	6.45%	Rational Method	10	5	7.5	0.6	39.09	0.30	0.93	3.12	2.18
9-4	Existing	28H3-041D	Double	3.5'	7.0	0	On Grade	3	3.33%	6.45%	Rational Method	10	5	7.5	0.6	37.95	0.31	0.89	2.90	2.01
12-20	Existing	28G1-054D	Single	3.5'	3.5	0	On Grade	3	3.23%	2.50%	Rational Method	10	5	7.5	0.6	24.46	0.24	0.46	1.92	1.45
12-18	Existing	28G1-053D	Double	3.5'	7.0	0	On Grade	3	3.23%	2.50%	Rational Method	10	5	7.5	0.6	25.77	0.43	0.94	2.17	1.23
12-17	Existing	28G1-051D	Single	3.5'	3.5	0	On Grade	3	2.00%	3.03%	Rational Method	10	5	7.5	0.6	36.42	0.17	0.36	2.18	1.81
12-16	Existing	28G1-050D	Double	3.5	7.0	0	On Grade	3	2.00%	3.03%	Rational Method	10	5	7.5	0.6	40.28	0.29	0.80	2.77	1.96
12-9	Existing	28H3-012D	Double	3.5'	7.0	0	On Grade	0	4.00%	1.00%	Rational Method	10	5	7.5	0.6	17.66	0.60	1.38	2.31	0.93
12-8	Existing	28H3-011D	Single	3.5'	3.5	0	On Grade	3	4.00%	1.00%	Rational Method	10	5	7.5	0.6	18.37	0.32	0.80	2.54	1.73
12-4	Existing	28H3-037D	Single	3.5'	3.5	0	On Grade	3	2.50%	2.94%	Rational Method	10	5	7.5	0.6	36.79	0.16	0.52	3.13	2.62
12-3	Existing	28H3-035D	Single	3.5'	3.5	0	On Grade	3	2.50%	2.94%	Rational Method	10	5	7.5	0.6	33.79	0.18	0.46	2.56	2.10
20-2	Existing	27G4-067D	Single	3.5'	3.5	0	On Grade	0	2.56%	2.67%	Rational Method	10	5	7.5	0.6	79.31	0.08	1.68	21.56	19.87
20-1	Existing	27G4-070D	Double	3.5'	3.5	0	On Grade	3	2.78%	2.67%	Rational Method	10	5	7.5	0.6	73.41	0.08	1.70	20.17	18.47
21-3	Existing	27G4-008D	Single	3.5'	3.5	0	On Grade	3	1.90%	0.24%	Rational Method	10	5	7.5	0.6	39.81	0.00	0.00	15.06	15.06
21-2	Existing	27G4-007D	Single	3.5'	3.5	0	On Grade	3	2.14%	0.24%	Rational Method	10	5	7.5	0.6	38.15	0.16	2.57	16.18	13.61
22-2	Existing	Unknown	Single	2.0'	2.0	0	On Grade	6	2.03%	1.46%	Rational Method	10	5	7.5	0.6	15.65	0.22	0.11	0.50	0.39
22-1	Existing	Unknown	Single	2.0'	2.0	0	On Grade	3	2.64%	1.46%	Rational Method	10	5	7.5	0.6	13.65	0.25	0.13	0.53	0.40
23-2	Existing	27G1-0211D	Single	3.5'	3.5	0	On Grade	3	2.35%	5.46%	Rational Method	10	5	7.5	0.6	62.32	0.10	0.64	6.47	5.83
23-1	Existing	27G1-049D	Single	3.5'	3.5	0	On Grade	3	2.78%	1.00%	Rational Method	10	5	7.5	0.6	34.17	0.18	1.17	6.60	5.43
24-4	Existing	27G1-173D	Single	3.5'	3.5	0	On Grade	4	2.33%	1.82%	Rational Method	10	5	7.5	0.6	55.21	0.11	1.16	10.47	9.30
24-3	Existing	27G1-172D	Single	3.5'	3.5	0	On Grade	4	2.33%	1.82%	Rational Method	10	5	7.5	0.6	53.07	0.00	0.00	9.55	9.55

TABLE 3: EXIST. CURB INLET ON GRADE CALCULATIONS

Structure ID	Existing/Proposed Structure	MSD Number	Inlet Count	Inlet Size	Inlet Length	Inlet Width (w)	Grade Type	Curb Height	Roadway Cross-Slope (S_x)	Roadway Longitudinal Slope (S)	Hydrologic Method	Design Storm Frequency	Time of Concentration	Intensity	Curb Opening at Sag Constant (C_w)	Lateral Width of Depression (W)	Height of Curb Opening (h)	Clear Opening of Sag Curb Inlet (A)	Orrifice Coefficient (C_o)	Sag Grate Inlet Effective Perimeter (p)	Gravity (g)	Plugging Factor (PF)	Unblocked Weir Length (L_{eff})	Depth of Ponding for Weir (h_w)	Depth of Ponding for Orrifice (h_o)	Depth of Ponding at inlet (h)	Flow at Depth of 1.4 FT	Flow at Depth Equal to Height of Curb Opening	Intercepted Flow (Q_i)	Total Gutter Flow Rate (Q)	Bypass Flow (Q_{by})
					(FT)	(FT)		(in)	(%)	(%)	Equation Type	(Year)	(Min.)	(In/Hr)	N/A	(FT)	(FT)	(FT^2)	N/A	(FT)	(FT/S^2)	N/A	(FT)	(FT)	(FT)	(FT)	(CFS)	(CFS)	(CFS)	(CFS)	(CFS)
12-23	Existing	28G1-057D	Double	3.5'	7	4	Sag	-	2.44%	0.00%	Rational Method	10	5	7.5	2.3	2	0.33	2.33	0.67	22.0	32.22	0.50	11.00	0.21	0.06	0.2	2.51	2.3	2.46	2.69	0
16-2	Existing	28G1-012D	Single	3.5'	3.5	0	Sag	6	2.31%	0.00%	Rational Method	10	5	7.5	2.3	2	0.33	1.17	0.67	3.5	32.22	0.50	1.75	0.36	0.03	0.36	2.77	3.6	3.05	0.99	0
16-1	Existing	28G1-011D	Single	3.5'	3.5	0	Sag	6	2.37%	0.00%	Rational Method	10	5	7.5	2.3	2	0.33	1.17	0.67	3.5	32.22	0.50	1.75	0.16	0.00	0.16	-	1.0	1.03	0.29	0
17-1	Existing	28G1-0144D	Single	3.5'	3.5	0	Sag	6	1.00%	0.00%	Rational Method	10	5	7.5	2.3	2	0.33	1.17	0.67	7.0	32.22	0.50	3.50	0.08	0.00	0.08	-	0.4	0.35	0.20	0
19-3	Existing	Unknown	Single	3.5'	3.5	0	Sag	6	1.12%	0.00%	Rational Method	10	5	7.5	2.3	2	0.33	1.17	0.67	3.5	32.22	0.50	1.75	0.60	0.14	0.60	4.15	7.7	6.27	2.14	0
19-2	Existing	28G1-014D	Single	3.5'	3.5	0	Sag	3	2.09%	0.00%	Rational Method	10	5	7.5	2.3	2	0.33	1.17	0.67	3.5	32.22	0.50	1.75	2.64	12.07	12.07	21.65	685.0	8029.19	19.50	0
19-1	Existing	28G1-015D	Single	3.5'	3.5	0	Sag	3	1.85%	0.00%	Rational Method	10	5	7.5	2.3	2	0.33	1.17	0.67	3.5	32.22	0.50	1.75	1.56	2.47	2.47	9.53	63.5	143.02	8.82	0

TABLE 4: EXIST. CURB INLET SAG CALCULATIONS

LAYOUT	CWW	12/2024
DRAWN	SMC	12/2024
REVIEWED	DJK	12/2024

MSD BASEMAP NUMBERS
29H1

MSD PROJECT NUMBER
24-MSD-00480

FOR INFORMATION ONLY

DRAINAGE CALCULATIONS
SHEET 1 OF 6

STATE OF MISSOURI
DENNIS J KOSCIELSKI
NUMBER PE-2005000712
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED
7/25/2025

ROUTE	STATE
231	MO
DISTRICT	SHEET NO.
SL	200

COUNTY
ST. LOUIS

JOB NO.
J6S3631

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION	DATE

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JEFFERSON CITY, MO 65102
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Structure ID	Existing/Proposed Structure	MSD Number	Inlet Count	Inlet Size	Inlet Length	Inlet Width (w)	Grade Type	Grate Type	Curb Height	Roadway Cross-Slope (S_x)	Roadway Longitudinal Slope (S)	Hydrologic Method	Design Storm Frequency	Time of Concentration	Intensity	Splash Over Velocity (V_0)	Area of Frontal Flow (A_f)	Wetted Perimeter (P_f)	Unadjusted Conveyance in Front of Grate (K_u)	Adjusted Frontal Flow Subsection Conveyance (K_f)	Total Flow Conveyance (K)	Frontal Flow (Q_f)	Frontal Flow Velocity (V_f)	Frontal Flow Intercepted Ratio (R_f)	Portion of Intercepted Frontal Flow (Q_{fi})	Side Flow (Q_s)	Total Flow Area (A)	Area of Side Flow (A_s)	Velocity of Side Flow (V_s)	Side Flow Intercepted Ratio (R_s)	Portion of Intercepted Side Flow (Q_{si})	Intercepted Flow (Q_i)	Total Gutter Flow Rate (Q)	Bypass Flow (Q_{by})
					(FT)	(FT)			(in)	(%)	(%)	Equation Type	(Year)	(Min.)	(Ir/Hr)	(FT/S)	(FT^2)	(FT)	N/A	(N/A)	(N/A)	(CFS)	(FT/S)	N/A	(CFS)	(CFS)	(FT^2)	(FT^2)	(FT/S)	N/A	(CFS)	(CFS)	(CFS)	(CFS)
1-6	Existing	Unknown	Single	2' x 2'	2	2	On Grade	Vane	6	1.02%	3.94%	Rational Method	10	5	7.5	5.94	0.18	2.10	3.12	2.65	7.07	0.53	3.00	1.00	0.53	0.88	0.47	0.30	2.96	0.06	0.05	0.58	1.40	0.82
1-2	Existing	29H1-0227D	Single	4' x 2'	4	2	On Grade	Vane	6	1.48%	3.20%	Rational Method	10	5	7.5	9.02	0.27	2.15	6.30	5.35	15.07	0.96	3.54	1.00	0.96	1.74	0.76	0.49	3.57	0.26	0.46	1.41	2.70	1.28
2-4	Existing	29H1-161D	Single	2' x 2'	2	2	On Grade	Vane	0	1.95%	1.57%	Rational Method	10	5	7.5	5.94	0.73	2.38	30.50	25.93	138.91	3.25	4.48	1.00	3.25	14.17	3.74	3.02	4.69	0.06	0.84	4.09	17.42	13.33
2-1	Existing	29H2-001D	Single	2' x 2'	2	2	On Grade	Vane	0	1.26%	2.02%	Rational Method	10	5	7.5	5.94	0.50	2.26	17.19	14.61	80.41	2.08	4.12	1.00	2.08	9.35	2.77	2.27	4.13	0.05	0.44	2.52	11.43	8.91
4-2	Existing	29H2-194D	Single	2' x 2'	2	2	On Grade	Vane	6	1.13%	1.76%	Rational Method	10	5	7.5	5.94	0.38	2.20	11.07	9.41	44.14	1.25	3.26	1.00	1.25	4.61	1.82	1.43	3.22	0.06	0.28	1.53	5.86	4.33
4-1	Existing	29H2-173D	Single	2' x 2'	2	2	On Grade	Vane	0	1.60%	1.88%	Rational Method	10	5	7.5	5.94	0.27	2.15	6.20	5.27	13.92	0.72	2.70	1.00	0.72	1.19	0.70	0.43	2.74	0.10	0.12	0.85	1.91	1.06
6-16	Existing	28H3-115	Double	2' x 2'	4	4	On Grade	Vane	6	0.57%	1.07%	Rational Method	10	5	7.5	9.02	0.31	4.09	5.23	4.45	9.92	0.46	1.47	1.00	0.46	0.56	0.70	0.39	1.45	0.35	0.20	0.65	1.02	0.37
6-7	Existing	Unknown	Single	2' x 2'	2	2	On Grade	Vane	6	1.69%	1.79%	Rational Method	10	5	7.5	5.94	0.30	2.17	7.34	6.24	17.16	0.83	2.81	1.00	0.83	1.46	0.81	0.51	2.86	0.10	0.15	0.99	2.30	1.31
6-6	Existing	28H3-120D	Single	2' x 2'	2	2	On Grade	Vane	6	1.60%	1.25%	Rational Method	10	5	7.5	5.94	0.34	2.19	9.31	7.91	25.57	0.88	2.57	1.00	0.88	1.98	1.11	0.76	2.59	0.11	0.22	1.11	2.86	1.76
6-5	Existing	28H3-119D	Single	2' x 2'	2	2	On Grade	Vane	6	1.21%	1.05%	Rational Method	10	5	7.5	5.94	0.32	2.17	8.17	6.94	26.02	0.71	2.25	1.00	0.71	1.96	1.20	0.88	2.22	0.11	0.21	0.92	2.67	1.75
6-1	Existing	28H3-114D	Single	2' x 2'	2	2	On Grade	Vane	6	0.80%	1.48%	Rational Method	10	5	7.5	5.94	0.15	2.08	2.43	2.07	5.87	0.25	1.67	1.00	0.25	0.46	0.44	0.29	1.62	0.11	0.05	0.30	0.71	0.41
8-1	Existing	28H3-0201D	Single	2' x 2'	2	2	On Grade	Vane	3	0.73%	3.64%	Rational Method	10	5	7.5	5.94	0.28	2.15	6.52	5.54	28.12	1.06	3.84	1.00	1.06	4.31	1.45	1.17	3.69	0.03	0.14	1.20	5.37	4.17
10-3	Existing	Unknown	Single	2' x 2'	2	2	On Grade	Vane	0	1.43%	1.24%	Rational Method	10	5	7.5	5.94	0.34	2.18	9.01	7.66	26.56	0.85	2.53	1.00	0.85	2.11	1.17	0.83	2.53	0.10	0.22	1.07	2.96	1.89
10-1	Existing	29H2-209D	Single	2' x 2'	2	2	On Grade	Vane	6	0.31%	0.68%	Rational Method	10	5	7.5	5.94	0.30	2.15	7.45	6.33	74.88	0.52	1.75	1.00	0.52	5.67	3.72	3.42	1.66	0.05	0.26	0.79	6.20	5.41
11-13	Existing	Unknown	Single	2' x 2'	2	2	On Grade	Parallel	0	3.54%	0.88%	Rational Method	10	5	7.5	4.17	0.65	2.36	25.72	21.87	66.18	2.05	3.13	1.00	2.05	4.15	1.85	1.20	3.46	0.15	0.63	2.68	6.19	3.51
12-34	Existing	28G1-062D	Double	4' x 2'	4	4	On Grade	Parallel	0	0.92%	2.94%	Rational Method	10	5	7.5	7.24	0.63	4.18	16.43	13.96	36.78	2.39	3.82	1.00	2.39	3.91	1.67	1.04	3.75	0.17	0.66	3.06	6.31	3.25
12-29	Existing	Unknown	Double	2' x 2'	2	2	On Grade	Parallel	3	1.72%	3.60%	Rational Method	10	5	7.5	4.17	0.43	2.23	13.37	11.37	42.06	2.16	5.00	0.93	2.00	5.82	1.58	1.15	5.08	0.05	0.27	2.27	7.98	5.71
13-1	Existing	Unknown	Single	2' x 2' (circle)	2	2	On Grade	Vane	0	2.57%	4.62%	Rational Method	10	5	7.5	5.94	0.22	2.14	4.64	3.94	6.95	0.85	3.77	1.00	0.85	0.65	0.37	0.15	4.46	0.08	0.05	0.90	1.49	0.59
15-2	Existing	Unknown	Double	2' x 2'	2	4	On Grade	Vane	6	1.89%	3.40%	Rational Method	10	5	7.5	5.94	0.61	4.19	15.61	13.27	22.21	2.45	4.02	1.00	2.45	1.65	0.95	0.35	4.77	0.06	0.09	2.54	4.10	1.56
15-1	Existing	Unknown	Double	4' x 2'	4	4	On Grade	Vane	6	0.30%	2.95%	Rational Method	10	5	7.5	9.02	0.28	4.07	4.24	3.60	11.54	0.62	2.25	1.00	0.62	1.36	0.92	0.65	2.11	0.14	0.19	0.81	1.98	1.17
18-16	Existing	28G1-023D	Single	4' x 2'	2	4	On Grade	Parallel	4	1.00%	1.00%	Rational Method	10	5	7.5	4.17	0.62	4.17	16.02	13.62	33.39	1.36	2.21	1.00	1.36	1.98	1.52	0.90	2.19	0.09	0.18	1.54	3.34	1.80
18-15	Existing	28G1-026D	Single	4' x 2'	2	4	On Grade	Parallel	4	1.00%	1.00%	Rational Method	10	5	7.5	4.17	0.51	4.15	11.83	10.06	21.72	1.01	1.96	1.00	1.01	1.17	1.10	0.59	1.99	0.10	0.12	1.13	2.17	1.04
18-13	Existing	28G1-029D	Single	2' x 2'	2	2	On Grade	Parallel	6	3.88%	0.98%	Rational Method	10	5	7.5	4.17	0.60	2.34	22.68	19.28	51.33	1.91	3.16	1.00	1.91	3.17	1.49	0.89	3.56	0.16	0.51	2.41	5.08	2.67
18-4A	Existing	Unknown	Single	2' x 2'	2	2	On Grade	Parallel	6	4.17%	1.53%	Rational Method	10	5	7.5	4.17	0.67	2.37	26.44	22.48	61.42	2.78	4.18	1.00	2.78	4.82	1.68	1.01	4.75	0.12	0.56	3.34	7.60	4.26
21-1	Existing	27G4-116D	Single	4' x 2'	4	2	On Grade	Parallel	0	2.16%	0.24%	Rational Method	10	5	7.5	7.24	1.10	2.57	57.85	49.17	365.74	2.43	2.21	1.00	2.43	15.65	7.55	6.45	2.43	0.48	7.51	9.94	18.08	8.14

TABLE 5: EXIST. GRATE INLET ON GRADE CALCULATIONS

Structure ID	Existing/Proposed Structure	MSD Number	Inlet Count	Inlet Size	Inlet Length	Inlet Width (w)	Grade Type	Grate Type	Curb Height	Roadway Cross-Slope (S_x)	Roadway Longitudinal Slope (S)	Hydrologic Method	Design Storm Frequency	Time of Concentration	Intensity	Sag Grate Inlet Constant (C_w)	Sag Grate Inlet Effective Perimeter (p)	Orifice Coefficient (C_0)	Clear Opening of Sag Grate (A)	Gravity (g)	Plugging Factor (PF)	Unblocked Weir Length (L_{eff})	Depth of Ponding for Weir (h_w)	Depth of Ponding for Orrifice (h_o)	Depth of Ponding at inlet (h)	Flow at Depth of 0.4 FT	Flow at Depth of 1.4 FT	Intercepted Flow (Q_i)	Total Gutter Flow Rate (Q)	Bypass Flow (Q_{by})
					(FT)	(FT)			(in)	(%)	(%)	Equation Type	(Year)	(Min.)	(In/Hr)	N/A	(FT)	N/A	(FT^2)	(FT/S^2)	N/A	(FT)	(FT)	(FT)	(FT)	(CFS)	(CFS)	(CFS)	(CFS)	(CFS)
2-3	Existing	Unknown	Double	4' x 2'	4	4	Sag	Vane	4	1.67%	0.00%	Rational Methcd	10	5	7.5	3.0	12.0	0.7	8.40	32.22	0.50	6.00	1.02	0.16	1.0	37.1	45.6	45.81	16.08	0
2-2	Existing	Unknown	Double	4' x 2'	4	4	Sag	Vane	3	1.61%	0.00%	Rational Methcd	10	5	7.5	3.0	12.0	0.7	8.40	32.22	0.50	6.00	0.74	0.06	0.7	23.0	38.9	34.77	9.96	0
6-4	Existing	28H3-121D	Single	2' x 2'	2	2	Sag	Vane	0	1.39%	0.00%	Rational Methcd	10	5	7.5	3.0	8.0	0.7	2.10	32.22	0.50	4.00	0.40	0.07	0.4	6.1	7.2	6.52	2.64	0
6-3	Existing	28H3-116D	Single	2' x 2'	2	2	Sag	Vane	6	1.56%	0.00%	Rational Methcd	10	5	7.5	3.0	6.0	0.7	2.10	32.22	0.50	3.00	0.19	0.00	0.2	1.4	4.9	2.08	0.63	0
6-2	Existing	28H3-115D	Double	4' x 2'	4	4	Sag	Vane	0	3.33%	0.00%	Rational Methcd	10	5	7.5	3.0	16.0	0.7	8.40	32.22	0.50	8.00	0.20	0.00	0.2	4.4	20.3	7.62	1.90	0
7-1	Existing	28H3-123D	Single	2' x 2'	2	2	Sag	Parallel	0	1.69%	0.00%	Rational Methcd	10	5	7.5	3.0	8.0	0.7	3.04	32.22	0.50	4.00	0.26	0.01	0.3	3.1	8.3	4.45	1.36	0
12-21	Existing	28G1-055D	Quadruple	2' x 2'	4	4	Sag	Parallel	0	3.23%	0.00%	Rational Methcd	10	5	7.5	3.0	16.0	0.7	12.16	32.22	0.50	8.00	0.21	0.00	0.2	4.7	30.2	10.19	2.06	0
16-3	Existing	Unknown	Single	4' x 4'	4	4	Sag	Parallel	0	1.00%	0.00%	Rational Methcd	10	5	7.5	3.0	16.0	0.7	12.16	32.22	0.50	8.00	0.08	0.00	0.1	1.2	19.0	2.70	0.51	0
17-3	Existing	28G1-010D	Double	4' x 2'	4	4	Sag	Parallel	0	1.00%	0.00%	Rational Methcd	10	5	7.5	3.0	16.0	0.7	12.16	32.22	0.50	8.00	0.05	0.00	0.1	0.6	14.9	1.32	0.25	0
17-2	Existing	28G1-011D	Double	4' x 2'	4	4	Sag	Parallel	6	1.00%	0.00%	Rational Methcd	10	5	7.5	3.0	12.0	0.7	12.16	32.22	0.50	6.00	0.03	0.00	0.0	0.2	11.0	0.47	0.07	0
18-12	Existing	28G1-027D	Single	2' x 2'	2	2	Sag	Parallel	6	2.47%	0.00%	Rational Methcd	10	5	7.5	3.0	6.0	0.7	3.04	32.22	0.50	3.00	0.73	0.11	0.7	11.1	13.9	13.16	4.82	0
18-9	Existing	Unknown	Single	2' x 2'	2	2	Sag	Parallel	6	3.41%	0.00%	Rational Methcd	10	5	7.5	3.0	6.0	0.7	3.04	32.22	0.50	3.00	0.10	0.00	0.1	0.6	5.3	1.09	0.26	0
18-9B	Existing	Unknown	Single	2' x 2'	2	2	Sag	Parallel	6	3.05%	0.00%	Rational Methcd	10	5	7.5	3.0	6.0	0.7	3.04	32.22	0.50	3.00	0.28	0.01	0.3	2.6	8.6	4.30	1.14	0
18-8	Existing	Unknown	Single	2' x 2'	2	2	Sag	Parallel	6	3.95%	0.00%	Rational Methcd	10	5	7.5	3.0	6.0	0.7	3.04	32.22	0.50	3.00	0.07	0.00	0.1	0.4	4.4	0.66	0.16	0

TABLE 6: EXIST. GRATE INLET SAG CALCULATIONS

LAYOUT	CWW	12/2024
DRAWN	SMC	12/2024
REVIEWED	DJK	12/2024

MSD BASEMAP NUMBERS
29H1

MSD PROJECT NUMBER
24-MSD-00480

FOR INFORMATION ONLY

DRAINAGE CALCULATIONS
SHEET 2 OF 6

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STATE OF MISSOURI
DENNIS J KOSCIELSKI
NUMBER PE-2005000712
PROFESSIONAL ENGINEER

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DATE PREPARED
7/25/2025

ROUTE	STATE
231	MO
DISTRICT	SHEET NO.
SL	201

COUNTY
ST. LOUIS

JOB NO.
J6S3631

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DATE	DESCRIPTION

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Structure ID	Existing/Proposed Structure	MSD Number	Inlet Count	Inlet Size	Inlet Length	Inlet Width (w)	Grade Type	Curb Height	Roadway Cross-Slope (S_x)	Roadway Longitudinal Slope (S)	Hydrologic Method	Design Storm Frequency	Time of Concentration	Intensity	Curb Opening Constant (K)	Required Curb Length to Intercept 100% (L_T)	Curb Opening Efficiency (E)	Intercepted Flow (Q_i)	Total Gutter Flow Rate (Q)	Bypass Flow (Q_{by})
					(FT)	(FT)		(in)	(%)	(%)	Equation Type	(Year)	(Min.)	(In/Hr)	N/A	(FT)	N/A	(CFS)	(CFS)	(CFS)
9-6	Existing	28H3-042D	Single	3.5'	3.5	0	On Grade	6	1.06%	1.33%	Rational Method	10	5	7.5	0.6	48.40	0.13	0.39	3.11	2.72
11-14	Existing	Unknown	Single	3.5'	3.5	0	On Grade	6	2.70%	0.87%	Rational Method	10	5	7.5	0.6	19.28	0.30	0.54	1.79	1.25
12-31	Existing	Unknown	Single	3.5'	3.5	0	On Grade	4	1.04%	3.40%	Rational Method	10	5	7.5	0.6	85.35	0.07	0.44	6.02	5.58
12-25	Existing	Unknown	Single	3.5'	3.5	0	On Grade	3	0.93%	4.57%	Rational Method	10	5	7.5	0.6	111.50	0.06	0.44	7.82	7.38
12-15	Existing	Unknown	Single	3.5'	3.5	0	On Grade	4	0.98%	1.03%	Rational Method	10	5	7.5	0.6	29.18	0.21	0.21	1.01	0.80
12-14	Existing	Unknown	Single	3.5'	3.5	0	On Grade	4	1.35%	3.93%	Rational Method	10	5	7.5	0.6	49.11	0.12	0.26	2.09	1.83
12-12	Existing	Unknown	Single	3.5'	3.5	0	On Grade	4	1.95%	6.04%	Rational Method	10	5	7.5	0.6	54.80	0.11	0.38	3.40	3.02
12-11	Existing	Unknown	Single	3.5'	3.5	0	On Grade	4	1.87%	7.55%	Rational Method	10	5	7.5	0.6	62.24	0.10	0.36	3.69	3.32
12-7	Existing	Unknown	Single	3.5'	3.5	0	On Grade	6	1.15%	7.35%	Rational Method	10	5	7.5	0.6	106.65	0.06	0.39	6.76	6.37
12-6	Existing	Unknown	Single	3.5'	3.5	0	On Grade	6	2.06%	7.11%	Rational Method	10	5	7.5	0.6	76.01	0.08	0.58	7.12	6.54
12-2	Existing	Unknown	Single	3.5'	3.5	0	On Grade	4	1.15%	5.27%	Rational Method	10	5	7.5	0.6	87.09	0.07	0.38	5.27	4.90
14-3	Existing	Unknown	Single	3.5'	3.5	0	On Grade	3	1.26%	3.56%	Rational Method	10	5	7.5	0.6	70.14	0.09	0.42	4.76	4.34
14-2	Existing	Unknown	Single	3.5'	3.5	0	On Grade	4	1.26%	3.72%	Rational Method	10	5	7.5	0.6	75.44	0.08	0.45	5.49	5.04
14-1	Existing	Unknown	Single	3.5'	3.5	0	On Grade	3	1.26%	3.48%	Rational Method	10	5	7.5	0.6	77.51	0.08	0.49	6.14	5.65

TABLE 7: EXIST. PASS THROUGH ON GRADE CALCULATIONS

Structure ID	Existing/Proposed Structure	MSD Number	Inlet Count	Inlet Size	Inlet Length	Inlet Width (w)	Grade Type	Curb Height	Roadway Cross-Slope (S_x)	Roadway Longitudinal Slope (S)	Hydrologic Method	Design Storm Frequency	Time of Concentration	Intensity	Curb Opening at Sag Constant (C_w)	Lateral Width of Depression (W)	Height of Curb Opening (h)	Clear Opening of Sag Curb Inlet (A)	Orrifice Coefficient (C_o)	Sag Grate Inlet Effective Perimeter (p)	Gravity (g)	PLugging Factor (PF)	Unblocked Weir Length (L_{eff})	Depth of Ponding for Weir (h_w)	Depth of Ponding for Orrifice (h_o)	Depth of Ponding at inlet (h)	Flow at Depth of 1.4 FT	Flow at Depth Equal to Height of Curb Opening	Intercepted Flow (Q_i)	Total Gutter Flow Rate (Q)	Bypass Flow (Q_{by})
					(FT)	(FT)		(in)	(%)	(%)	Equation Type	(Year)	(Min.)	(In/Hr)	N/A	(FT)	(FT)	(FT^2)	N/A	(FT)	(FT/S^2)	N/A	(FT)	(FT)	(FT)	(FT)	(CFS)	(CFS)	(CFS)	(CFS)	(CFS)
9-2	Existing	Unknown	Single	3.5'	3.5	0	Sag	6	1.12%	0.00%	Rational Method	10	5	7.5	2.3	2	0.33	1.17	0.67	3.5	32.22	0.50	1.75	2.13	6.31	6.3	15.55	258.9	1551.10	14.10	0

TABLE 8: EXIST. PASS THROUGH SAG CALCULATIONS

LAYOUT	CWW	12/2024
DRAWN	SMC	12/2024
REVIEWED	DJK	12/2024

MSD BASEMAP NUMBERS	MSD PROJECT NUMBER
29H1	24-MSD-00480

FOR INFORMATION ONLY

DRAINAGE CALCULATIONS
SHEET 3 OF 6

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STATE OF MISSOURI
DENNIS J KOSCIELSKI
NUMBER PE-2005000712
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED 7/25/2025

ROUTE	STATE
231	MO

DISTRICT	SHEET NO.
SL	202

COUNTY ST. LOUIS

JOB NO. J6S3631

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

DESCRIPTION	DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

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Structure ID	Existing/Proposed Structure	MSD Number	Inlet Count	Inlet Size	Inlet Length	Inlet Width (w)	Grade Type	Grate Type	Curb Height	Roadway Cross-Slope (S_x)	Roadway Longitudinal Slope (S)	Hydrologic Method	Design Storm Frequency	Time of Concentration	Intensity	Splash Over Velocity (V_o)	Area of Frontal Flow (A_f)	Wetted Perimeter (P_f)	Unadjusted Conveyance in Front of Grate (K_u)	Adjusted Frontal Flow Subsection Conveyance (K_f)	Total Flow Conveyance (K)	Frontal Flow (Q_f)	Frontal Flow Velocity (V_f)	Frontal Flow Intercepted Ratio (R_f)	Portion of Intercepted Frontal Flow (Q_{if})	Side Flow (Q_s)	Total Flow Area (A)	Area of Side Flow (A_s)	Velocity of Side Flow (V_s)	Side Flow Intercepted Ratio (R_s)	Portion of Intercepted Side Flow (Q_{is})	Intercepted Flow (Q_i)	Total Gutter Flow Rate (Q)	Bypass Flow (Q_{by})
					(FT)	(FT)			(in)	(%)	(%)	Equation Type	(Year)	(Min.)	(In/Hr)	(FT/S)	(FT^2)	(FT)	N/A	(N/A)	(N/A)	(CFS)	(FT/S)	N/A	(CFS)	(CFS)	(FT^2)	(FT^2)	(FT/S)	N/A	(CFS)	(CFS)	(CFS)	(CFS)
24-10	Existing	27G1-167D	Single	4' x 2'	2	4	On Grade	Vane	4	4.19%	1.43%	Rational Method	10	5	7.5	5.94	1.63	4.49	76.76	65.25	125.82	7.81	4.80	1.00	7.81	7.25	2.87	1.25	5.82	0.09	0.65	8.46	15.07	6.61
24-9	Existing	27G1-166D	Single	4' x 2'	2	4	On Grade	Vane	4	4.48%	1.43%	Rational Method	10	5	7.5	5.94	1.12	4.37	42.16	35.83	55.64	4.29	3.82	1.00	4.29	2.37	1.53	0.41	5.81	0.10	0.23	4.52	6.66	2.15
24-8	Existing	27G1-164D	Single	4' x 2'	2	4	On Grade	Vane	4	3.68%	1.20%	Rational Method	10	5	7.5	5.94	1.34	4.41	56.01	47.61	87.55	5.22	3.91	1.00	5.22	4.38	2.26	0.92	4.74	0.10	0.46	5.68	9.60	3.92
24-6	Existing	27G1-163D	Single	4' x 2'	2	4	On Grade	Vane	4	3.81%	1.20%	Rational Method	10	5	7.5	5.94	0.88	4.30	28.56	24.28	36.32	2.66	3.01	1.00	2.66	1.32	1.16	0.27	4.80	0.11	0.14	2.80	3.98	1.18
24-2	Existing	27G1-168D	Single	2' x 2'	2	2	On Grade	Vane	4	2.63%	1.82%	Rational Method	10	5	7.5	5.94	0.38	2.22	10.82	9.20	22.40	1.24	3.28	1.00	1.24	1.78	0.88	0.51	3.52	0.12	0.21	1.45	3.02	1.57
24-1	Existing	27G1-169D	Single	2' x 2'	2	2	On Grade	Vane	4	2.55%	1.82%	Rational Method	10	5	7.5	5.94	0.29	2.17	6.89	5.86	11.99	0.79	2.76	1.00	0.79	0.83	0.56	0.27	3.05	0.14	0.11	0.90	1.62	0.71

TABLE 9: PROPOSED CGCI ON GRADE CALCULATIONS

Structure ID	Existing/Proposed Structure	MSD Number	Inlet Count	Inlet Size	Inlet Length	Inlet Width (w)	Grade Type	Curb Height	Roadway Cross-Slope (S_x)	Roadway Longitudinal Slope (S)	Hydrologic Method	Design Storm Frequency	Time of Concentration	Intensity	Curb Opening Constant (K)	Required Curb Length to Intercept 100% (L_T)	Curb Opening Efficiency (E)	Intercepted Flow (Q_i)	Total Gutter Flow Rate (Q)	Bypass Flow (Q_{by})
					(FT)	(FT)		(in)	(%)	(%)	Equation Type	(Year)	(Min.)	(In/Hr)	N/A	(FT)	N/A	(CFS)	(CFS)	(CFS)
1-1	Existing	29H1-235D	Single	3.5'	3.5	0	On Grade	6	1.00%	3.00%	Rational Method	10	5	7.5	0.6	38.25	0.16	0.15	0.92	0.77
2-5 *	Proposed	-	Single	3.5'	3.5	0	On Grade	6	1.23%	2.02%	Rational Method	10	5	7.5	0.6	77.69	0.08	0.70	8.84	8.14
2-6 *	Proposed	-	Single	3.5'	3.5	0	On Grade	6	1.06%	2.02%	Rational Method	10	5	7.5	0.6	87.06	0.07	0.67	9.34	8.68
4-3 *	Proposed	-	Single	3.5'	3.5	0	On Grade	6	2.06%	1.88%	Rational Method	10	5	7.5	0.6	29.05	0.21	0.38	1.86	1.48
4-4 *	Proposed	-	Single	3.5'	3.5	0	On Grade	6	1.60%	1.88%	Rational Method	10	5	7.5	0.6	32.04	0.19	0.31	1.65	1.34
6-8	Existing	Unknown	Single	3.5'	3.5	0	On Grade	6	1.69%	1.79%	Rational Method	10	5	7.5	0.6	23.26	0.25	0.22	0.86	0.64
6-14	Proposed	-	Single	3.5'	3.5	0	On Grade	6	0.85%	1.54%	Rational Method	10	5	7.5	0.6	23.15	0.26	0.09	0.36	0.26
6-15	Existing	28H-114D	Single	3.5'	3.5	0	On Grade	6	0.57%	0.77%	Rational Method	10	5	7.5	0.6	18.32	0.32	0.06	0.19	0.13
8-3	Existing	28H3-113D	Single	3.5'	3.5	0	On Grade	6	3.21%	5.98%	Rational Method	10	5	7.5	0.6	50.27	0.12	0.69	5.67	4.98
8-2	Existing	28H3-0202D	Single	3.5'	3.5	0	On Grade	6	0.67%	3.64%	Rational Method	10	5	7.5	0.6	30.43	0.20	0.05	0.26	0.21
9-5	Existing	28H3-040D	Double	3.5'	7	0	On Grade	3	3.33%	6.45%	Rational Method	10	5	7.5	0.6	39.09	0.30	0.93	3.12	2.18
9-4	Existing	28H3-041D	Double	3.5'	7	0	On Grade	3	3.33%	6.45%	Rational Method	10	5	7.5	0.6	37.95	0.31	0.89	2.90	2.01
10-6 *	Proposed	-	Single	3.5'	3.5	0	On Grade	6	1.43%	1.24%	Rational Method	10	5	7.5	0.6	41.90	0.15	0.52	3.56	3.04
12-20	Existing	28G1-054D	Single	3.5'	3.5	0	On Grade	3	3.23%	2.50%	Rational Method	10	5	7.5	0.6	24.39	0.24	0.46	1.90	1.44
12-18	Existing	28G1-053D	Double	3.5'	7	0	On Grade	4	3.23%	2.50%	Rational Method	10	5	7.5	0.6	25.77	0.43	0.94	2.17	1.23
12-17	Existing	28G1-051D	Single	3.5'	3.5	0	On Grade	4	2.00%	3.03%	Rational Method	10	5	7.5	0.6	36.42	0.17	0.36	2.18	1.81
12-16	Existing	28G1-050D	Double	3.5	7	0	On Grade	4	2.00%	3.03%	Rational Method	10	5	7.5	0.6	40.28	0.29	0.80	2.77	1.96
12-9	Existing	28H3-012D	Double	3.5'	7	0	On Grade	0	4.00%	1.00%	Rational Method	10	5	7.5	0.6	17.65	0.60	1.38	2.31	0.93
12-8	Existing	28H3-011D	Single	3.5'	3.5	0	On Grade	4	4.00%	1.00%	Rational Method	10	5	7.5	0.6	18.67	0.31	0.82	2.63	1.81
12-4	Existing	28H3-037D	Single	3.5'	3.5	0	On Grade	4	2.50%	2.94%	Rational Method	10	5	7.5	0.6	36.74	0.16	0.51	3.12	2.61
12-3	Existing	28H3-035D	Single	3.5'	3.5	0	On Grade	4	2.50%	2.94%	Rational Method	10	5	7.5	0.6	33.79	0.18	0.46	2.56	2.10
15-3	Proposed	-	Single	3.5'	3.5	0	On Grade	6	1.89%	3.40%	Rational Method	10	5	7.5	0.6	71.36	0.09	0.79	9.18	8.39
15-2	Proposed	Unknown	Single	3.5'	3.5	0	On Grade	6	1.89%	3.40%	Rational Method	10	5	7.5	0.6	72.96	0.08	0.82	9.68	8.86
18-13	Existing	28G1-029D	Single	3.5'	3.5	0	On Grade	6	3.88%	0.98%	Rational Method	10	5	7.5	0.6	31.99	0.19	1.73	9.21	7.48
20-2	Existing	27G4-067D	Single	3.5'	3.5	0	On Grade	6	2.56%	2.67%	Rational Method	10	5	7.5	0.6	48.17	0.13	0.84	6.58	5.74
22-2	Existing	Unknown	Single	2'	2	0	On Grade	6	2.03%	1.46%	Rational Method	10	5	7.5	0.6	15.65	0.22	0.11	0.50	0.39
22-1	Existing	Unknown	Single	2'	2	0	On Grade	3	2.64%	1.46%	Rational Method	10	5	7.5	0.6	7.72	0.42	0.06	0.14	0.08
23-2	Existing	27G1-0211D	Single	3.5'	3.5	0	On Grade	3	2.35%	5.46%	Rational Method	10	5	7.5	0.6	61.56	0.10	0.63	6.29	5.66
23-1	Existing	27G1-049D	Single	3.5'	3.5	0	On Grade	3	2.78%	1.00%	Rational Method	10	5	7.5	0.6	34.17	0.18	1.17	6.60	5.43
24-4	Existing	27G1-173D	Single	3.5'	3.5	0	On Grade	4	2.33%	1.82%	Rational Method	10	5	7.5	0.6	38.41	0.16	0.70	4.41	3.71
24-3	Existing	27G1-172D	Single	3.5'	3.5	0	On Grade	4	2.33%	1.82%	Rational Method	10	5	7.5	0.6	36.74	0.00	0.00	3.98	3.98

* Inlet switched to 2' x 2' Drop inlet, calcs left for curb inlet

TABLE 10: PROPOSED CURB INLET ON GRADE CALCULATIONS

Structure ID	Existing/Proposed Structure	MSD Number	Inlet Count	Inlet Size	Inlet Length	Inlet Width (w)	Grade Type	Curb Height	Roadway Cross-Slope (S_x)	Roadway Longitudinal Slope (S)	Hydrologic Method	Design Storm Frequency	Time of Concentration	Intensity	Curb Opening at Sag Constant (C_w)	Lateral Width of Depression (W)	Height of Curb Opening (h)	Clear Opening of Sag Curb Inlet (A)	Orifice Coefficient (C_o)	Sag Grate Inlet Effective Perimeter (p)	Gravity (g)	Plugging Factor (PF)	Unblocked Weir Length (L_{eff})	Depth of Ponding for Weir (h_w)	Depth of Ponding for Orrifice (h_o)	Depth of Ponding at inlet (h)	Flow at Depth of 1.4 FT	Flow at Depth Equal to Height of Curb Opening	Intercepted Flow (Q_i)	Total Gutter Flow Rate (Q)	Bypass Flow (Q_{by})
					(FT)	(FT)		(in)	(%)	(%)	Equation Type	(Year)	(Min.)	(In/Hr)	N/A	(FT)	(FT)	(FT^2)	N/A	(FT)	(FT/S^2)	N/A	(FT)	(FT)	(FT)	(FT)	(CFS)	(CFS)	(CFS)	(CFS)	(CFS)
2-7 *	Proposed	-	Single	3.5'	3.5	0	Sag	6	1.46%	0.00%	Rational Method	10	5	7.5	2.3	2	0.33	1.17	0.67	3.5	32.22	0.50	1.75	0.38	0.03	0.4	2.87	3.8	3.20	1.05	0
12-23	Existing	28G1-057D	Double	3.5'	7	4	Sag	-	2.44%	0.00%	Rational Method	10	5	7.5	2.3	2	0.33	2.33	0.67	22.0	32.22	0.50	11.00	0.21	0.06	0.2	2.51	2.3	2.46	2.69	0
16-2	Existing	28G1-012D	Single	3.5'	3.5	0	Sag	6	2.31%	0.00%	Rational Method	10	5	7.5	2.3	2	0.33	1.17	0.67	3.5	32.22	0.50	1.75	0.39	0.04	0.39	3.00	4.1	3.41	1.13	0
16-1	Existing	28G1-011D	Single	3.5'	3.5	0	Sag	6	2.37%	0.00%	Rational Method	10	5	7.5	2.3	2	0.33	1.17	0.67	3.5	32.22	0.50	1.75	0.16	0.00	0.16	-	1.0	1.03	0.29	0
17-1	Existing	28G1-0144D	Single	3.5'	3.5	0	Sag	6	1.00%	0.00%	Rational Method	10	5	7.5	2.3	2	0.33	1.17	0.67	7.0	32.22	0.50	3.50	0.08	0.00	0.08	-	0.4	0.35	0.20	0
18-12	Existing	28G1-027D	Single	3.5'	3.5	0	Sag	6	2.47%	0.00%	Rational Method	10	5	7.5	2.3	2	0.33	1.17	0.67	3.5	32.22	0.50	1.75	1.35	1.61	1.61	7.55	33.5	33.47	7.13	0
19-3	Existing	Unknown	Single	3.5'	3.5	0	Sag	6	1.12%	0.00%	Rational Method	10	5	7.5	2.3	2	0.33	1.17	0.67	3.5	32.22	0.50	1.75	0.46	0.07	0.46	3.43	5.2	4.24	1.44	0
19-2	Existing	28G1-014D	Single	3.5'	3.5	0	Sag	3	2.09%	0.00%	Rational Method	10	5	7.5	2.3	2	0.33	1.17	0.67	3.5	32.22	0.50	1.75	0.37	0.03	0.37	2.83	3.7	3.14	1.02	0
19-1	Existing	28G1-015D	Single	3.5'	3.5	0	Sag	3	1.85%	0.00%	Rational Method	10	5	7.5	2.3	2	0.33	1.17	0.67	3.5	32.22	0.50	1.75	0.28	0.01	0.28	2.13	2.4	2.22	0.68	0

* Inlet switched to 2' x 2' Drop inlet, calcs left for curb inlet

TABLE 11: PROPOSED CURB INLET SAG CALCULATIONS

LAYOUT	CWW	12/2024
DRAWN	SMC	12/2024
REVIEWED	DJK	12/2024

MSD BASEMAP NUMBERS: 29H1

MSD PROJECT NUMBER: 24-MSD-00480

FOR INFORMATION ONLY

DRAINAGE CALCULATIONS
SHEET 4 OF 6

STATE OF MISSOURI
DENNIS J KOSCIELSKI
NUMBER PE-2005000712
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED: 7/25/2025

ROUTE	STATE
231	MO
DISTRICT	SHEET NO.
SL	203

COUNTY: ST. LOUIS
JOB NO.: J6S3631
CONTRACT ID.:
PROJECT NO.:
BRIDGE NO.:

DESCRIPTION	DATE

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MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
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JEFFERSON CITY, MO 65102
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Structure ID	Existing/Proposed Structure	MSD Number	Inlet Count	Inlet Size	Inlet Length	Inlet Width (w)	Grade Type	Grate Type	Curb Height	Roadway Cross-Slope (S_x)	Roadway Longitudinal Slope (S)	Hydrologic Method	Design Storm Frequency	Time of Concentration	Intensity	Splash Over Velocity (V_0)	Area of Frontal Flow (A_f)	Wetted Perimeter (P_f)	Unadjusted Conveyance in Front of Grate (K_u)	Adjusted Frontal Flow Subsection Conveyance (K_f)	Total Flow Conveyance (K)	Frontal Flow (Q_f)	Frontal Flow Velocity (V_f)	Frontal Flow Intercepted Ratio (R_f)	Portion of Intercepted Frontal Flow (Q_{fi})	Side Flow (Q_s)	Total Flow Area (A)	Area of Side Flow (A_s)	Velocity of Side Flow (V_s)	Side Flow Intercepted Ratio (R_s)	Portion of Intercepted Side Flow (Q_{si})	Intercepted Flow (Q_i)	Total Gutter Flow Rate (Q)	Bypass Flow (Q_{by})
					(FT)	(FT)			(in)	(%)	(%)	Equation Type	(Year)	(Min.)	(In/Hr)	(FT/S)	(FT^2)	(FT)	N/A	(N/A)	(N/A)	(CFS)	(FT/S)	N/A	(CFS)	(CFS)	(FT^2)	(FT^2)	(FT/S)	N/A	(CFS)	(CFS)	(CFS)	(CFS)
2-3	Existing	Unknown	Double	4' x 2'	4	4	On Grade	Vane	6	1.67%	1.61%	Rational Method	10	5	7.5	9.02	0.51	4.16	11.69	9.93	16.18	1.26	2.47	1.00	1.26	0.79	0.78	0.27	2.98	0.34	0.27	1.53	2.05	0.52
2-8	Proposed	-	Single	4' x2'	4	2	On Grade	Vane	6	1.15%	1.61%	Rational Method	10	5	7.5	9.02	0.23	2.13	4.93	4.19	12.65	0.53	2.29	1.00	0.53	1.07	0.71	0.48	2.26	0.35	0.38	0.91	1.61	0.69
4-2	Existing	29H2-194D	Single	2' x 2'	2	2	On Grade	Vane	6	1.13%	1.76%	Rational Method	10	5	7.5	5.94	0.36	2.19	10.24	8.70	39.05	1.16	3.17	1.00	1.16	4.03	1.66	1.29	3.12	0.06	0.25	1.41	5.19	3.78
4-5	Proposed	-	Single	2' x2'	2	2	On Grade	Vane	6	0.82%	1.76%	Rational Method	10	5	7.5	5.94	0.35	2.18	9.57	8.13	46.39	1.08	3.09	1.00	1.08	5.08	2.04	1.69	3.00	0.05	0.25	1.33	6.16	4.83
6-7	Existing	Unknown	Single	2' x 2'	2	2	On Grade	Vane	6	1.69%	1.79%	Rational Method	10	5	7.5	5.94	0.27	2.15	6.18	5.26	13.36	0.70	2.63	1.00	0.70	1.08	0.67	0.40	2.70	0.11	0.12	0.82	1.79	0.96
6-9	Proposed	-	Single	2' x2'	2	2	On Grade	Vane	6	1.65%	1.79%	Rational Method	10	5	7.5	5.94	0.26	2.15	6.00	5.10	13.03	0.68	2.60	1.00	0.68	1.06	0.66	0.40	2.66	0.11	0.12	0.80	1.74	0.94
6-6	Existing	28H3-120D	Single	2' x 2'	2	2	On Grade	Vane	6	1.60%	1.25%	Rational Method	10	5	7.5	5.94	0.28	2.15	6.51	5.53	14.99	0.62	2.24	1.00	0.62	1.06	0.74	0.47	2.28	0.13	0.14	0.76	1.68	0.92
6-10	Proposed	-	Single	2' x2'	2	2	On Grade	Vane	6	1.57%	1.25%	Rational Method	10	5	7.5	5.94	0.33	2.18	8.70	7.39	23.38	0.83	2.51	1.00	0.83	1.79	1.04	0.71	2.52	0.11	0.20	1.03	2.62	1.58
6-5	Existing	28H3-119D	Single	2' x 2'	2	2	On Grade	Vane	6	1.21%	1.05%	Rational Method	10	5	7.5	5.94	0.28	2.15	6.63	5.64	18.97	0.58	2.07	1.00	0.58	1.37	0.95	0.67	2.05	0.12	0.16	0.74	1.95	1.20
6-4	Existing	28H3-121D	Single	2' x 2'	2	2	On Grade	Vane	0	1.39%	0.38%	Rational Method	10	5	7.5	5.94	0.34	2.18	9.00	7.65	27.05	0.47	1.39	1.00	0.47	1.19	1.19	0.86	1.39	0.22	0.26	0.73	1.66	0.93
6-3	Existing	28H3-116D	Single	2' x 2'	2	2	On Grade	Vane	6	1.56%	0.07%	Rational Method	10	5	7.5	5.94	0.40	2.21	11.69	9.94	36.92	0.26	0.66	1.00	0.26	0.71	1.47	1.07	0.66	0.49	0.35	0.61	0.97	0.36
6-12	Proposed	-	Single	2' x 2'	2	2	On Grade	Vane	6	1.48%	0.07%	Rational Method	10	5	7.5	5.94	0.31	2.17	7.87	6.69	21.03	0.18	0.57	1.00	0.18	0.38	0.97	0.66	0.57	0.53	0.20	0.38	0.55	0.18
6-16	Existing	23H3-115	Double	2' x 2'	4	4	On Grade	Vane	6	0.57%	1.07%	Rational Method	10	5	7.5	9.02	0.31	4.09	5.23	4.45	9.92	0.46	1.47	1.00	0.46	0.56	0.70	0.39	1.45	0.35	0.20	0.65	1.02	0.37
8-1	Existing	28H3-0201D	Single	2' x 2'	2	2	On Grade	Vane	6	0.73%	3.64%	Rational Method	10	5	7.5	5.94	0.10	2.06	1.32	1.12	2.60	0.21	2.06	1.00	0.21	0.28	0.24	0.14	2.04	0.08	0.02	0.24	0.50	0.26
8-4	Proposed	-	Single	4' x 2'	2	4	On Grade	Vane	6	1.02%	5.00%	Rational Method	10	5	7.5	5.94	0.53	4.15	12.51	10.63	23.18	2.38	4.48	1.00	2.38	2.80	1.15	0.62	4.54	0.03	0.09	2.47	5.18	2.71
12-34	Existing	28G1-062D	Double	4' x 2'	4	4	On Grade	Vane	0	0.92%	2.94%	Rational Method	10	5	7.5	9.02	0.28	4.09	4.42	3.76	6.07	0.64	2.28	1.00	0.64	0.40	0.43	0.15	2.65	0.26	0.10	0.75	1.04	0.30
12-41	Proposed	-	Single	4' x 2'	2	4	On Grade	Vane	6	1.18%	3.70%	Rational Method	10	5	7.5	5.94	0.18	4.07	2.06	1.75	2.32	0.34	1.89	1.00	0.34	0.11	0.20	0.02	5.87	0.03	0.00	0.34	0.45	0.11
12-29	Existing	Unknown	Double	2' x 2'	2	2	On Grade	Vane	4	1.72%	3.60%	Rational Method	10	5	7.5	5.94	0.15	2.09	2.51	2.13	3.77	0.40	2.63	1.00	0.40	0.31	0.26	0.10	2.97	0.10	0.03	0.44	0.72	0.28
12-39	Proposed	-	Single	4' x 2'	4	2	On Grade	Vane	6	3.85%	6.67%	Rational Method	10	5	7.5	9.02	0.07	2.07	0.69	0.58	0.88	0.15	2.14	1.00	0.15	0.08	0.07	0.00	572.18	0.00	0.00	0.15	0.23	0.08
12-40	Proposed	-	Single	4' x 2'	4	2	On Grade	Vane	6	3.85%	6.67%	Rational Method	10	5	7.5	9.02	0.07	2.08	0.75	0.64	0.94	0.16	2.21	1.00	0.16	0.08	0.07	0.00	3514.22	0.00	0.00	0.16	0.24	0.08
15-1	Proposed	Unknown	Single	4' x2'	4	2	On Grade	Vane	6	0.30%	2.95%	Rational Method	10	5	7.5	9.02	0.25	2.13	5.75	4.88	50.70	0.84	3.29	1.00	0.84	7.87	2.80	2.54	3.09	0.08	0.65	1.49	8.70	7.21
18-16	Existing	28G1-023D	Single	4' x 2'	2	4	On Grade	Parallel	4	1.00%	1.00%	Rational Method	10	5	7.5	4.17	0.62	4.17	16.02	13.62	33.39	1.36	2.21	1.00	1.36	1.98	1.52	0.90	2.19	0.09	0.18	1.54	3.34	1.80
18-15	Existing	28G1-026D	Single	4' x 2'	2	4	On Grade	Parallel	4	1.00%	1.00%	Rational Method	10	5	7.5	4.17	0.51	4.15	11.83	10.06	21.72	1.01	1.96	1.00	1.01	1.17	1.10	0.59	1.99	0.10	0.12	1.13	2.17	1.04
18-12A	Proposed	-	Single	2' x 2'	2	2	On Grade	Vane	6	3.47%	0.50%	Rational Method	10	5	7.5	5.94	0.80	2.44	35.56	30.22	110.98	2.14	2.66	1.00	2.14	5.71	2.74	1.94	2.95	0.18	1.05	3.19	7.85	4.66
18-9	Proposed	Unknown	Single	4' x 2'	2	4	On Grade	Vane	6	3.41%	0.50%	Rational Method	10	5	7.5	5.94	0.21	4.12	2.71	2.31	3.71	0.16	0.77	1.00	0.16	0.10	0.22	0.00	28.88	0.01	0.00	0.16	0.26	0.10
18-4A	Existing	Unknown	Single	2' x 2'	2	2	On Grade	Parallel	6	4.17%	1.53%	Rational Method	10	5	7.5	4.17	0.55	2.32	19.65	16.70	39.55	2.07	3.75	1.00	2.07	2.83	1.21	0.66	4.31	0.13	0.38	2.44	4.89	2.45
21-4	Proposed	-	Single	4' x 2'	2	4	On Grade	Vane	6	2.12%	0.24%	Rational Method	10	5	7.5	5.94	1.99	4.54	106.41	90.45	320.00	4.47	2.25	1.00	4.47	11.35	6.86	4.87	2.33	0.16	1.86	6.33	15.82	9.49
21-3A *	Proposed	-	Single	4' x 2'	2	4	On Grade	Vane	6	1.83%	0.24%	Rational Method	10	5	7.5	5.94	0.36	4.13	6.68	5.68	7.93	0.28	0.77	1.00	0.28	0.11	0.44	0.08	1.37	0.27	0.03	0.31	0.39	0.08
21-1A	Proposed	-	Single	4' x 2'	2	4	On Grade	Vane	6	2.27%	0.24%	Rational Method	10	5	7.5	5.94	2.10	4.57	116.37	98.92	348.41	4.89	2.33	1.00	4.89	12.34	7.19	5.08	2.43	0.16	2.03	6.92	17.23	10.31

* Inlet switched to grated trough, calcs left for grate inlet

TABLE 12: PROPOSED GRATE INLET ON GRADE CALCULATIONS

Structure ID	Existing/Proposed Structure	MSD Number	Inlet Count	Inlet Size	Inlet Length	Inlet Width (w)	Grade Type	Grate Type	Curb Height	Roadway Cross-Slope (S_x)	Roadway Longitudinal Slope (S)	Hydrologic Methcd	Design Storm Frequency	Time of Concentration	Intensity	Sag Grate Inlet Constant (C_w)	Sag Grate Inlet Effective Perimeter (p)	Orifice Coefficient (C_o)	Clear Opening of Sag Grate (A)	Gravity (g)	Plugging Factor (PF)	Unblocked Weir Length (L_{eff})	Depth of Ponding for Weir (h_w)	Depth of Ponding for Orrifice (h_o)	Depth of Ponding at inlet (h)	Flow at Depth of 0.4 FT	Flow at Depth of 1.4 FT	Intercepted Flow (Q_i)	Total Gutter Flow Rate (Q)	Bypass Flow (Q_{by})
					(FT)	(FT)			(in)	(%)	(%)	Equation Type	(Year)	(Min.)	(In/Hr)	N/A	(FT)	N/A	(FT^2)	(FT/S^2)	N/A	(FT)	(FT)	(FT)	(FT)	(CFS)	(CFS)	(CFS)	(CFS)	(CFS)
6-2	Existing	28H3-115D	Double	4' x 2'	4	4	Sag	Vane	0	3.33%	0.00%	Rational Method	10	5	7.5	3.0	16.0	0.7	8.40	32.22	0.50	8.00	0.22	0.00	0.2	5.1	21.4	8.78	2.22	0
7-1	Existing	28H3-123D	Single	2' x 2'	2	2	Sag	Parallel	0	1.69%	0.00%	Rational Method	10	5	7.5	3.0	8.0	0.7	3.04	32.22	0.50	4.00	0.26	0.01	0.3	3.1	8.3	4.45	1.36	0
12-21	Existing	28G1-055D	Quadruple	2' x 2'	4	4	Sag	Parallel	0	3.23%	0.00%	Rational Method	10	5	7.5	3.0	16.0	0.7	12.16	32.22	0.50	8.00	0.21	0.00	0.2	4.7	30.2	10.19	2.06	0
16-3	Existing	Unknown	Single	4' x 4'	4	4	Sag	Parallel	0	1.00%	0.00%	Rational Method	10	5	7.5	3.0	16.0	0.7	12.16	32.22	0.50	8.00	0.08	0.00	0.1	1.2	19.0	2.70	0.51	0
17-3	Existing	28G1-010D	Double	4' x 2'	4	4	Sag	Vane	0	1.00%	0.00%	Rational Method	10	5	7.5	3.0	16.0	0.7	8.4	32.22	0.50	8.00	0.05	0.00	0.1	0.6	10.3	1.08	0.25	0
17-2	Existing	28G1-011D	Single	2' x 2'	2	2	Sag	Vane	6	1.00%	0.00%	Rational Method	10	5	7.5	3.0	6.0	0.7	8.4	32.22	0.50	3.00	0.04	0.00	0.0	0.2	9.6	0.59	0.07	0

TABLE 13: PROPOSED GRATE INLET SAG CALCULATIONS

LAYOUT	CWW	12/2024
DRAWN	SMC	12/2024
REVIEWED	DJK	12/2024

MSD BASEMAP NUMBERS: 29H1

MSD PROJECT NUMBER: 24-MSD-00480

FOR INFORMATION ONLY

DRAINAGE CALCULATIONS
SHEET 5 OF 6

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DENNIS J KOSCIELSKI
NUMBER PE-2005000712
STATE OF MISSOURI
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED: 7/25/2025

ROUTE	STATE
231	MO
DISTRICT	SHEET NO.
SL	204

COUNTY: ST. LOUIS

JOB NO.: J6S3631

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION	DATE

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL
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Structure ID	Existing/Proposed Structure	MSD Number	Inlet Count	Inlet Size	Inlet Length	Inlet Width (w)	Grade Type	Curb Height	Roadway Cross-Slope (S_x)	Roadway Longitudinal Slope (S)	Hydrologic Method	Design Storm Frequency	Time of Concentration	Intensity	Curb Opening Constant (K)	Required Curb Length to Intercept 100% (L_T)	Curb Opening Efficiency (E)	Intercepted Flow (Q_i)	Total Gutter Flow Rate (Q)	Bypass Flow (Q_{by})
					(FT)	(FT)		(in)	(%)	(%)	Equation Type	(Year)	(Min.)	(In/Hr)	N/A	(FT)	N/A	(CFS)	(CFS)	(CFS)
3-1	Existing	N/A	Single	4'	4	0	On Grade	6	0.90%	1.57%	Rational Method	10	5	7.5	0.6	62.81	0.11	0.45	4.07	3.61
9-6	Existing	28H3-042D	Single	4'	4	0	On Grade	6	1.06%	1.33%	Rational Method	10	5	7.5	0.6	65.09	0.11	0.68	6.29	5.62
9-11	Proposed	-	Single	4'	4	0	On Grade	6	1.40%	1.33%	Rational Method	10	5	7.5	0.6	57.39	0.12	0.85	6.97	6.12
9-12	Proposed	-	Single	4'	4	0	On Grade	6	1.11%	3.23%	Rational Method	10	5	7.5	0.6	78.15	0.09	0.50	5.53	5.03
9-13	Proposed	-	Single	4'	4	0	On Grade	6	0.86%	2.33%	Rational Method	10	5	7.5	0.6	80.59	0.09	0.46	5.22	4.76
9-14	Proposed	-	Single	4'	4	0	On Grade	6	0.91%	1.00%	Rational Method	10	5	7.5	0.6	60.59	0.12	0.61	5.26	4.65
9-15	Proposed	-	Single	4'	4	0	On Grade	6	1.01%	1.20%	Rational Method	10	5	7.5	0.6	62.81	0.11	0.65	5.81	5.17
9-7	Proposed	-	Single	4'	4	0	On Grade	6	1.12%	1.33%	Rational Method	10	5	7.5	0.6	26.34	0.26	0.20	0.79	0.59
9-8	Proposed	-	Single	4'	4	0	On Grade	6	1.20%	1.33%	Rational Method	10	5	7.5	0.6	25.98	0.26	0.22	0.84	0.62
9-9	Proposed	-	Single	4'	4	0	On Grade	6	1.03%	1.33%	Rational Method	10	5	7.5	0.6	29.12	0.23	0.21	0.89	0.68
9-10	Proposed	-	Single	4'	4	0	On Grade	6	1.28%	0.97%	Rational Method	10	5	7.5	0.6	20.30	0.33	0.21	0.64	0.43
11-14	Existing	Unknown	Single	4'	4	0	On Grade	6	2.70%	0.87%	Rational Method	10	5	7.5	0.6	32.76	0.21	1.32	6.32	5.00
11-15	Proposed	-	Single	4'	4	0	On Grade	6	2.01%	0.88%	Rational Method	10	5	7.5	0.6	36.19	0.19	0.99	5.22	4.23
12-43	Proposed	-	Single	4'	4	0	On Grade	6	1.44%	1.00%	Rational Method	10	5	7.5	0.6	27.02	0.25	0.37	1.48	1.11
12-44	Proposed	-	Single	4'	4	0	On Grade	6	1.06%	2.22%	Rational Method	10	5	7.5	0.6	39.44	0.18	0.23	1.33	1.09
12-45	Proposed	-	Single	4'	4	0	On Grade	6	0.98%	3.57%	Rational Method	10	5	7.5	0.6	48.34	0.14	0.20	1.37	1.17
12-46	Proposed	-	Single	4'	4	0	On Grade	6	1.20%	5.00%	Rational Method	10	5	7.5	0.6	47.99	0.15	0.21	1.42	1.21
12-47	Proposed	-	Single	4'	4	0	On Grade	6	1.01%	7.41%	Rational Method	10	5	7.5	0.6	55.14	0.13	0.15	1.17	1.02
12-48	Proposed	-	Single	4'	4	0	On Grade	6	1.43%	7.14%	Rational Method	10	5	7.5	0.6	34.34	0.20	0.13	0.63	0.51
12-49	Proposed	-	Single	4'	4	0	On Grade	6	1.48%	6.67%	Rational Method	10	5	7.5	0.6	53.71	0.13	0.26	2.03	1.77
12-50	Proposed	-	Single	4'	4	0	On Grade	6	1.78%	6.25%	Rational Method	10	5	7.5	0.6	44.30	0.16	0.27	1.75	1.48
12-51	Proposed	-	Single	4'	4	0	On Grade	6	1.22%	3.77%	Rational Method	10	5	7.5	0.6	42.21	0.16	0.21	1.30	1.09
12-52	Proposed	-	Single	4'	4	0	On Grade	6	1.53%	2.30%	Rational Method	10	5	7.5	0.6	28.78	0.24	0.24	1.03	0.79
12-25	Existing	Unknown	Single	4'	4	0	On Grade	4	0.93%	4.57%	Rational Method	10	5	7.5	0.6	108.81	0.07	0.48	7.38	6.90
12-37	Proposed	-	Single	4'	4	0	On Grade	6	0.75%	4.57%	Rational Method	10	5	7.5	0.6	125.60	0.06	0.43	7.65	7.21
12-15	Existing	Unknown	Single	4'	4	0	On Grade	4	0.98%	1.03%	Rational Method	10	5	7.5	0.6	53.56	0.13	0.56	4.27	3.71
12-14	Existing	Unknown	Single	4'	4	0	On Grade	4	1.35%	3.93%	Rational Method	10	5	7.5	0.6	69.09	0.10	0.48	4.72	4.24
12-12	Existing	Unknown	Single	4'	4	0	On Grade	4	1.95%	6.04%	Rational Method	10	5	7.5	0.6	69.18	0.10	0.60	5.92	5.32
12-36	Proposed	-	Single	4'	4	0	On Grade	4	1.87%	7.55%	Rational Method	10	5	7.5	0.6	76.36	0.09	0.55	6.00	5.45
12-7	Existing	Unknown	Single	4'	4	0	On Grade	6	1.15%	7.35%	Rational Method	10	5	7.5	0.6	120.77	0.06	0.53	9.09	8.56
12-6A	Proposed	Unknown	Single	4'	4	0	On Grade	6	2.06%	7.11%	Rational Method	10	5	7.5	0.6	85.33	0.08	0.78	9.38	8.60
12-2	Existing	Unknown	Single	4'	4	0	On Grade	4	1.15%	5.27%	Rational Method	10	5	7.5	0.6	131.04	0.05	0.76	13.95	13.19
14-3	Existing	Unknown	Single	4'	4	0	On Grade	4	1.26%	3.56%	Rational Method	10	5	7.5	0.6	46.11	0.15	0.26	1.75	1.49
14-2	Existing	Unknown	Single	4'	4	0	On Grade	4	1.26%	3.72%	Rational Method	10	5	7.5	0.6	55.50	0.13	0.33	2.64	2.31
14-1	Existing	Unknown	Single	4'	4	0	On Grade	4	1.26%	3.48%	Rational Method	10	5	7.5	0.6	60.69	0.12	0.40	3.43	3.03

TABLE 14: PROPOSED PASS THROUGH ON GRADE CALCULATIONS

Structure ID	Existing/Proposed Structure	MSD Number	Inlet Count	Inlet Size	Inlet Length	Inlet Width (w)	Grade Type	Curb Height	Roadway Cross-Slope (S_x)	Roadway Longitudinal Slope (S)	Hydrologic Method	Design Storm Frequency	Time of Concentration	Intensity	Curb Opening at Sag Constant (C_w)	Lateral Width of Depression (W)	Height of Curb Opening (h)	Clear Opening of Sag Curb Inlet (A)	Orifice Coefficient (C_o)	Sag Grate Inlet Effective Perimeter (p)	Gravity (g)	Plugging Factor (PF)	Unblocked Weir Length (L_{eff})	Depth of Ponding for Weir (h_w)	Depth of Ponding for Orrifice (h_o)	Depth of Ponding at inlet (h)	Flow at Depth of 1.4 FT	Flow at Depth Equal to Height of Curb Opening	Intercepted Flow (Q_i)	Total Gutter Flow Rate (Q)	Bypass Flow (Q_{by})
					(FT)	(FT)		(in)	(%)	(%)	Equation Type	(Year)	(Min.)	(In/Hr)	N/A	(FT)	(FT)	(FT^2)	N/A	(FT)	(FT/S^2)	N/A	(FT)	(FT)	(FT)	(FT)	(CFS)	(CFS)	(CFS)	(CFS)	(CFS)
9-2	Existing	Unknown	Single	4'	4	0	Sag	6	1.12%	0.00%	Rational Method	10	5	7.5	2.3	2	0.33	1.33	0.67	4.0	32.22	0.50	2.00	2.04	5.61	5.6	16.73	232.2	1225.03	15.19	0
12-42	Proposed	-	Single	4'	4	0	Sag	6	1.48%	0.00%	Rational Method	10	5	7.5	2.3	2	0.33	1.33	0.67	4.0	32.22	0.50	2.00	0.58	0.13	0.6	4.63	7.8	6.48	2.32	0

TABLE 15: PROPOSED PASS THROUGH SAG CALCULATIONS

Structure ID	Existing/Proposed Structure	MSD Number	Inlet Count	Inlet Size	Inlet Length	Inlet Width (w)	Grade Type	Curb Height	Roadway Cross-Slope (S_x)	Roadway Longitudinal Slope (S)	Hydrologic Method	Design Storm Frequency	Time of Concentration	Intensity	Curb Opening Constant (K)	Required Curb Length to Intercept 100% (L_T)	Curb Opening Efficiency (E)	Intercepted Flow (Q_i)	Total Gutter Flow Rate (Q)	Bypass Flow (Q_{by})
					(FT)	(FT)		(in)	(%)	(%)	Equation Type	(Year)	(Min.)	(In/Hr)	N/A	(FT)	N/A	(CFS)	(CFS)	(CFS)
18-7	Proposed	Unknown	Single	4'	4	0	On Grade	6	4.40%	0.50%	Rational Method	10	5	7.5	0.6	13.93	0.46	1.12	2.46	1.34

TABLE 16: PROPOSED PASS DOWN ON GRADE CALCULATIONS

Structure ID	Existing/Proposed Structure	MSD Number	Inlet Count	Inlet Size	Inlet Length	Inlet Width (w)	Grade Type	Curb Height	Roadway Cross-Slope (S_x)	Roadway Longitudinal Slope (S)	Hydrologic Method	Design Storm Frequency	Time of Concentration	Intensity	Curb Opening at Sag Constant (C_w)	Lateral Width of Depression (W)	Height of Curb Opening (h)	Clear Opening of Sag Curb Inlet (A)	Orifice Coefficient (C_o)	Sag Grate Inlet Effective Perimeter (p)	Gravity (g)	Plugging Factor (PF)	Unblocked Weir Length (L_{eff})	Depth of Ponding for Weir (h_w)	Depth of Ponding for Orrifice (h_o)	Depth of Ponding at inlet (h)	Flow at Depth of 1.4 FT	Flow at Depth Equal to Height of Curb Opening	Intercepted Flow (Q_i)	Total Gutter Flow Rate (Q)	Bypass Flow (Q_{by})
					(FT)	(FT)		(in)	(%)	(%)	Equation Type	(Year)	(Min.)	(In/Hr)	N/A	(FT)	(FT)	(FT^2)	N/A	(FT)	(FT/S^2)	N/A	(FT)	(FT)	IFT)	(FT)	(CFS)	(CFS)	(CFS)	(CFS)	(CFS)
18-9B	Existing	Unknown	Single	4'	4	0	Sag	6	3.05%	0.00%	Rational Method	10	5	7.5	2.3	2	0.33	1.33	0.67	4.0	32.22	0.50	2.00	0.36	0.03	0.36	3.19	3.8	3.42	1.14	0
18-8	Existing	Unknown	Single	4'	4	0	Sag	6	3.95%	0.00%	Rational Method	10	5	7.5	2.3	2	0.33	1.33	0.67	4.0	32.22	0.50	2.00	0.46	0.06	0.46	3.89	5.5	4.62	1.63	0

TABLE 17: PROPOSED PASS DOWN SAG CALCULATIONS

LAYOUT	CWW	12/2024
DRAWN	SMC	12/2024
REVIEWED	DJK	12/2024

MSD BASEMAP NUMBERS
29H1

MSD PROJECT NUMBER
24-MSD-00480

FOR INFORMATION ONLY

DRAINAGE CALCULATIONS
SHEET 6 OF 6

STATE OF MISSOURI
DENNIS J KOSCIELSKI
NUMBER PE-2005000712
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED
7/25/2025

ROUTE	STATE
231	MO
DISTRICT	SHEET NO.
SL	205

COUNTY
ST. LOUIS

JOB NO.
J6S3631

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

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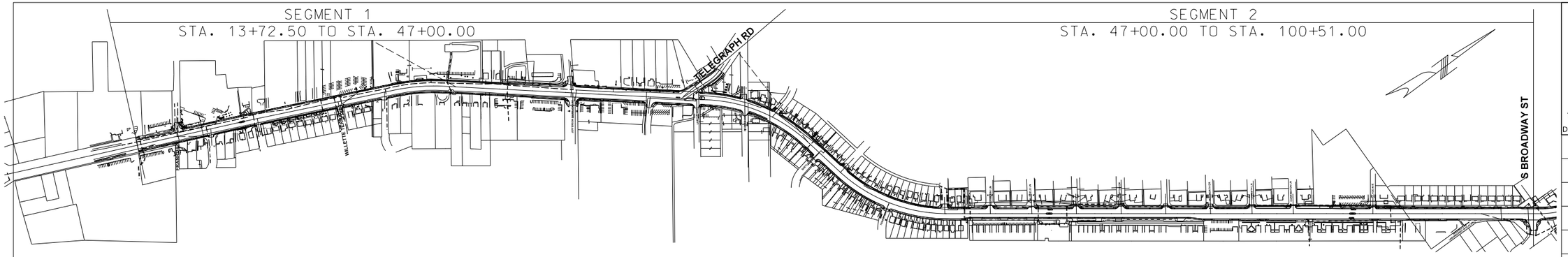
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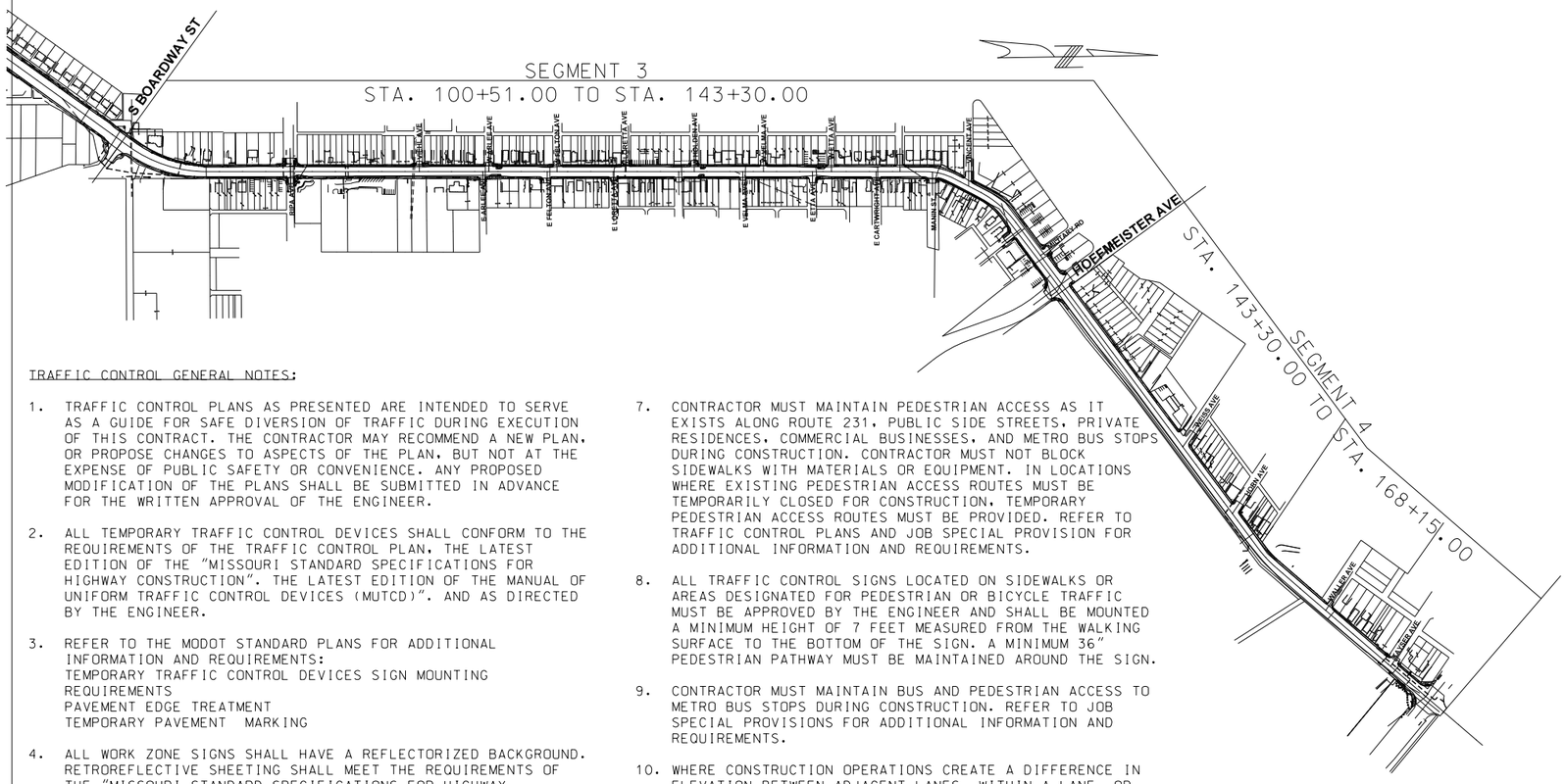
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TRAFFIC CONTROL GENERAL NOTES:

1. TRAFFIC CONTROL PLANS AS PRESENTED ARE INTENDED TO SERVE AS A GUIDE FOR SAFE DIVERSION OF TRAFFIC DURING EXECUTION OF THIS CONTRACT. THE CONTRACTOR MAY RECOMMEND A NEW PLAN, OR PROPOSE CHANGES TO ASPECTS OF THE PLAN, BUT NOT AT THE EXPENSE OF PUBLIC SAFETY OR CONVENIENCE. ANY PROPOSED MODIFICATION OF THE PLANS SHALL BE SUBMITTED IN ADVANCE FOR THE WRITTEN APPROVAL OF THE ENGINEER.

2. ALL TEMPORARY TRAFFIC CONTROL DEVICES SHALL CONFORM TO THE REQUIREMENTS OF THE TRAFFIC CONTROL PLAN, THE LATEST EDITION OF THE "MISSOURI STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION". THE LATEST EDITION OF THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (MUTCD)". AND AS DIRECTED BY THE ENGINEER.

3. REFER TO THE MODOT STANDARD PLANS FOR ADDITIONAL INFORMATION AND REQUIREMENTS:
TEMPORARY TRAFFIC CONTROL DEVICES SIGN MOUNTING REQUIREMENTS
PAVEMENT EDGE TREATMENT
TEMPORARY PAVEMENT MARKING

4. ALL WORK ZONE SIGNS SHALL HAVE A REFLECTORIZED BACKGROUND. RETROREFLECTIVE SHEETING SHALL MEET THE REQUIREMENTS OF THE "MISSOURI STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION."

5. MODOT RESERVES THE RIGHT TO RESTRICT CONSTRUCTION OPERATIONS WHEN. IN THE OPTION OF THE ENGINEER. THE CONTINUANCE OF THE WORK WOULD SERIOUSLY HINDER TRAFFIC FLOW ON DAYS IMMEDIATELY BEFORE, ON, OR AFTER HOLIDAYS OR OTHER DAYS IN WHICH UNUSUAL TRAFFIC CONDITIONS EXIST. INCLUDING THREATENING OR INCLEMENT WEATHER.

6. CONTRACTOR MUST MAINTAIN TRAFFIC ACCESS TO ALL PUBLIC SIDE STREETS, PRIVATE DRIVEWAYS, COMMERCIAL ENTRANCES AND METRO BUS STOPS AT ALL TIMES DURING CONSTRUCTION. REFER TO JOB SPECIAL PROVISIONS FOR ADDITIONAL INFORMATION AND REQUIREMENTS.

7. CONTRACTOR MUST MAINTAIN PEDESTRIAN ACCESS AS IT EXISTS ALONG ROUTE 231, PUBLIC SIDE STREETS, PRIVATE RESIDENCES, COMMERCIAL BUSINESSES, AND METRO BUS STOPS DURING CONSTRUCTION. CONTRACTOR MUST NOT BLOCK SIDEWALKS WITH MATERIALS OR EQUIPMENT. IN LOCATIONS WHERE EXISTING PEDESTRIAN ACCESS ROUTES MUST BE TEMPORARILY CLOSED FOR CONSTRUCTION, TEMPORARY PEDESTRIAN ACCESS ROUTES MUST BE PROVIDED. REFER TO TRAFFIC CONTROL PLANS AND JOB SPECIAL PROVISION FOR ADDITIONAL INFORMATION AND REQUIREMENTS.

8. ALL TRAFFIC CONTROL SIGNS LOCATED ON SIDEWALKS OR AREAS DESIGNATED FOR PEDESTRIAN OR BICYCLE TRAFFIC MUST BE APPROVED BY THE ENGINEER AND SHALL BE MOUNTED A MINIMUM HEIGHT OF 7 FEET MEASURED FROM THE WALKING SURFACE TO THE BOTTOM OF THE SIGN. A MINIMUM 36" PEDESTRIAN PATHWAY MUST BE MAINTAINED AROUND THE SIGN.

9. CONTRACTOR MUST MAINTAIN BUS AND PEDESTRIAN ACCESS TO METRO BUS STOPS DURING CONSTRUCTION. REFER TO JOB SPECIAL PROVISIONS FOR ADDITIONAL INFORMATION AND REQUIREMENTS.

10. WHERE CONSTRUCTION OPERATIONS CREATE A DIFFERENCE IN ELEVATION BETWEEN ADJACENT LANES. WITHIN A LANE, OR ALONG THE EDGE OF A LANE. THE CONTRACTOR MUST PROVIDE THE PROPER SIGNAGE AND PAVEMENT EDGE TREATMENT AS REQUIRED BY MODOT STANDARD PLAN - PAVEMENT EDGE TREATMENT. CONTRACTOR'S ATTENTION IS CALLED TO LOCATIONS INVOLVING TRENCH EXCAVATION. REFER TO JOB SPECIAL PROVISIONS FOR ADDITIONAL INFORMATION AND REQUIREMENTS.

11. TRAFFIC SIGNALS WITHIN THE ENTIRE ROUTE 231 PROJECT CORRIDOR ARE COORDINATED AS A SYSTEMS. CONTRACTOR MUST NOT ADJUST TRAFFIC SIGNAL OPERATIONS OR TIMING WITHOUT PRIOR WRITTEN APPROVAL OF THE ENGINEER. CONTRACTOR MUST MAINTAIN OPERATION OF THE EXISTING TRAFFIC SIGNALS WHILE INSTALLING NEW TRAFFIC SIGNALEQUIPMENT AND UNTIL SUCH TIME THE NEW TRAFFIC SIGNAL EQUIPMENT IS OPERATIONAL.

12. CONTRACTOR SHALL TEMPORARILY ADJUST, RELOCATE, OR COVER TRAFFIC SIGNAL HEADS AS DIRECTED BY THE ENGINEER TO CONFORM TRAFFIC CONFIGURATIONS IN THE TRAFFIC CONTROL PHASING PLAN. REFER TO JOB SPECIAL PROVISIONS FOR ADDITIONAL INFORMATION AND REQUIREMENTS.

TRAFFIC CONTROL GENERAL NOTES (CONTINUED):

13. CONTRACTOR MUST MAINTAIN POSITIVE DRAINAGE AT ALL TIMES DURING CONSTRUCTION. PONDING OF STORMWATER IS NOT PERMITTED. CONTRACTOR MUST PROVIDE AND MAINTAIN TEMPORARY DRAINAGE AND/OR PUMPING NECESSARY TO ELIMINATE STORMWATER PONDING FOR THE DURATION OF THE CONTRACT. REFER TO JOB SPECIAL PROVISIONS FOR ADDITIONAL INFORMATION AND REQUIREMENTS.

14. THE CONTRACTOR MUST FOLLOW ALL STATE AND COUNTY LAWS, RULES AND REGULATIONS AND OBTAIN ALL PERMITS NECESSARY FOR THE CLOSURE OF PARKING LANES. THE CONTRACTOR MUST REQUEST APPROVAL FOR ALL PARKING CLOSURES FROM THE ENGINEER AT LEAST TWO (2) BUSINESS DAYS IN ADVANCE OF CLOSURE.

15. NO DIRECT PAY WILL BE MADE FOR THE RELOCATION OF CONSTRUCTION SIGNS OR DEVICES.

16. SIGN AND DEVICE LOCATIONS WILL BE FIELD VERIFIED AND APPROVED BY THE ENGINEER.

17. ALL TRAFFIC CONTROL SIGNS SHALL BE MOUNTED IN ACCORDANCE WITH MODOT STANDARD PLANS.

CONSTRUCTION PHASING:

1. PROJECT IMPROVEMENTS SHALL BE CONSTRUCTED IN FOUR TRAFFIC CONTROL SEGMENTS SHOWN ABOVE. THE CONTRACTOR MUST SUBSTANTIALLY COMPLETE THE WORK (WITH THE EXCEPTION OF THE COLD-MILLING, SUPERPAVE RESURFACING, RAISED CONCRETE MEDIANS, AND PAVEMENT MARKING APPLICATIONS) IN EACH SEGMENT AND HAVE APPROVAL FROM THE ENGINEER BEFORE BEGINNING WORK IN THE SUCCESSIVE SEGMENT.

2. SEGMENTS 1 TO 4 WORK INVOLVES THE SAME SCOPE IN EACH AREA: STORM SEWER, CURB, DRIVEWAYS, ENTRANCES, SIDEWALK, ADA RAMPS, GUARDRAIL (WHERE PRESENT), MID BLOCK TRAFFIC SIGNALS, ISLANDS, AND LIGHTING.

3. FINAL PHASE INVOLVES: FULL-DEPTH PAVEMENT REPAIR, COLDMILLING, SUPERPAVE RESURFACING, TRAFFIC SIGNALS, ITS, RAISED CONCRETE MEDIANS, PAVEMENT MARKINGS, TUBULAR MARKERS, SIGNING, AND DRAINAGE.

4. SUPERPAVE RESURFACING OPERATIONS ARE RESTRICTED TO THE TIME PERIOD FROM 8:00 PM TO 5:30 AM ONLY.

TRAFFIC CONTROL
SHEET 1 OF 53

LAYOUT	NS	01/2025
DRAWN	SMC	01/2025
REVIEWED	DJK	01/2025

STATE OF MISSOURI
DENNIS J KOSCIELSKI
NUMBER PE-2005000712
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED 7/15/2025

ROUTE	STATE
231	MO
DISTRICT	SHEET NO.
SL	206

COUNTY: ST. LOUIS
JOB NO.: J6S3631
CONTRACT ID.:
PROJECT NO.:
BRIDGE NO.:

DESCRIPTION	DATE

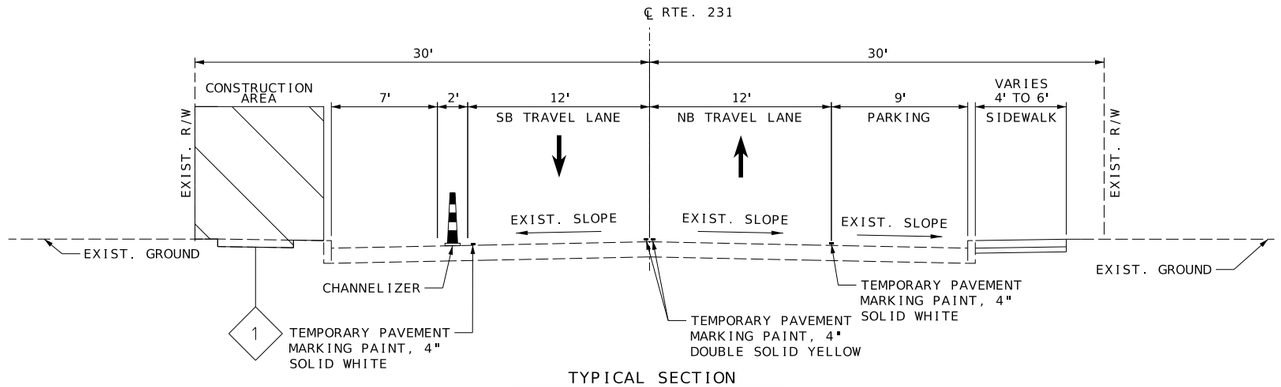
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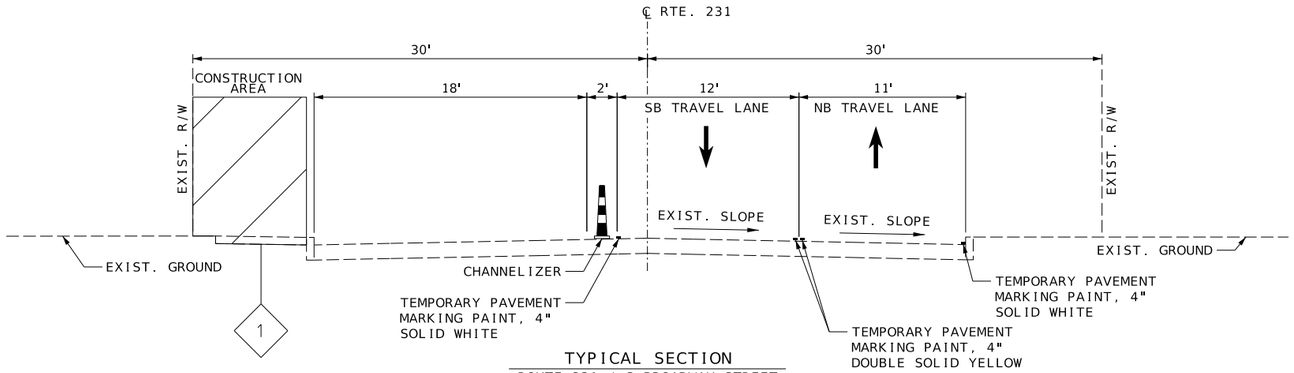
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TYPICAL SECTION
ROUTE 231 / S BROADWAY STREET
STA. 108+12.64 TO STA. 143+27.91
SEGMENT 3 PHASE 1A
NOT TO SCALE

NOTES:

1. PHASE 1A IS INTENDED FOR SIDEWALK CONSTRUCTION WITHIN SEGMENTS 3 AND 4. WORK WILL ONLY BE DONE IN SEGMENTS 3 AND 4 DURING THIS PHASE. THIS WORK SHALL BE COMPLETED BEFORE THE BEGINNING OF PHASES 2, 3, AND 4.
2. CONTRACTOR SHALL RETURN TRAFFIC TO A MINIMUM TWO-LANE, TWO-CONFIGURATION AT THE END OF EACH CALENDAR DAY. THE TRAFFIC SHALL BE RETURNED TO THE ORIGINAL CENTERLINE.
3. TEMPORARY STRIPING SHOWN FOR INFORMATION ONLY. TEMPORARY STRIPING IS ONLY TO BE INSTALLED WHEN DIRECTED BY THE ENGINEER.
4. CONTRACTOR SHALL USE METAL PLATES TO COVER UP EXCAVATIONS AT THE END OF EACH CALENDAR DAY WORKING TO RESTORE TRAFFIC TO EXISTING CENTERLINE.



TYPICAL SECTION
ROUTE 231 / S BROADWAY STREET
STA. 143+27.91 TO STA. 168+15.00
SEGMENT 4 PHASE 1A
NOT TO SCALE

MOT LEGEND

- CONSTRUCTION AREA
- TSWP 4" PAVEMENT MARKING, SOLID WHITE
- TSYP 4" PAVEMENT MARKING, SOLID YELLOW
- TDSYP 4" PAVEMENT MARKING, DOUBLE SOLID YELLOW
- SIGN (SINGLE SIDED)
- MOVABLE BARRICADE
- CHANNELIZERS
- 24" WHITE STOP BAR
- FLOW ARROW

1. MOT CONSTRUCTION DETAIL SHEET: SIDEWALK CLOSURE. SEE SHEET 40
2. MOT CONSTRUCTION DETAIL SHEET: SIDE ROADS ENTERING WORK ZONES. SEE SHEET 39
3. MOT CONSTRUCTION DFETAIL SHEET: LANE CLOSURE FOR ONE LANE - TWO WAY TRAFFIC CONTROL. SEE SHEET 41

NOTES:

1. CONTRACTOR IS RESPONSIBLE FOR ENSURING THAT ALL SIGNS AND INSTALLATIONS COMPLY WITH THE FULL EXTENT OF THE LATEST EDITION OF THE M.U.T.C.D.
2. CONTRACTOR SHALL FIELD ADJUST INSTALLATIONS. AS APPROVED BY THE ENGINEER.
3. REVIEW EPG 616.6.63 CHANNELIZING DEVICES FOR DIFFERENT TYPES AND GUIDELINES FOR THE DEVICES.
4. CONTRACTOR SHALL MAINTAIN ACCESS TO ALL DRIVEWAYS AT ALL TIMES.
5. WORK ZONE SIGNAGE AND TEMPORARY TRAFFIC CONTROL DEVICES NOT SHOWN WILL FOLLOW SECTION 616 OF THE MODOT STANDARD SPECIFICATIONS AND THE TYPICAL APPLICATIONS SHOWN IN PLANS.
6. EXISTING SIGNS WITHIN THE TEMPORARY TRAFFIC CONTROL ZONE THAT CONFLICT WITH TEMPORARY SIGNAGE SHALL BE COVERED.
7. EXISTING PAVEMENT MARKING IN CONFLICT WITH TEMPORARY PAVEMENT MARKINGS SHALL BE REMOVED.
8. EXISTING STOP SIGNS IN CONFLICT WITH TEMPORARY STOP SIGNS SHALL BE COVERED.
9. WORK ZONE SIGNS SHALL BE PLACED TO KEEP PEDESTRIAN ROUTES OPEN. MINIMUM 48" CLEAR SHALL BE PROVIDED ON ALL PEDESTRIAN ACCESS ROUTES.
10. COVER PERMANENT SIGNING IN CONFLICT WITH WORK ZONE SIGNING. FOR SIGNING REMOVAL SEE SIGNAGE PLANS.
11. ALL BUS STOP LOCATIONS AND SIGN FACES SHALL REMAIN UIP OR PROVIDED ALTERNATIVE AS APPROVED BY ENGINEER AND METROBUS.
12. AT LEAST ONE SIDEWALK SHALL BE OPEN AT ALL TIMES WITH ACCESSIBLE CROSSING LOCATIONS.

MAINTENANCE OF TRAFFIC
TYPICAL SECTIONS - PHASE 1A
SHEET 2 OF 53

LAYOUT 11/2024
DRAWN JAM 11/2024
REVIEWED JAM

STATE OF MISSOURI
DENNIS J KOSCIELSKI
NUMBER PE-2005000712
PROFESSIONAL ENGINEER

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DATE PREPARED 7/15/2025

ROUTE	STATE
231	MO
DISTRICT	SHEET NO.
SL	207

COUNTY: ST. LOUIS
JOB NO.: J6S3631
CONTRACT ID.:
PROJECT NO.:
BRIDGE NO.:

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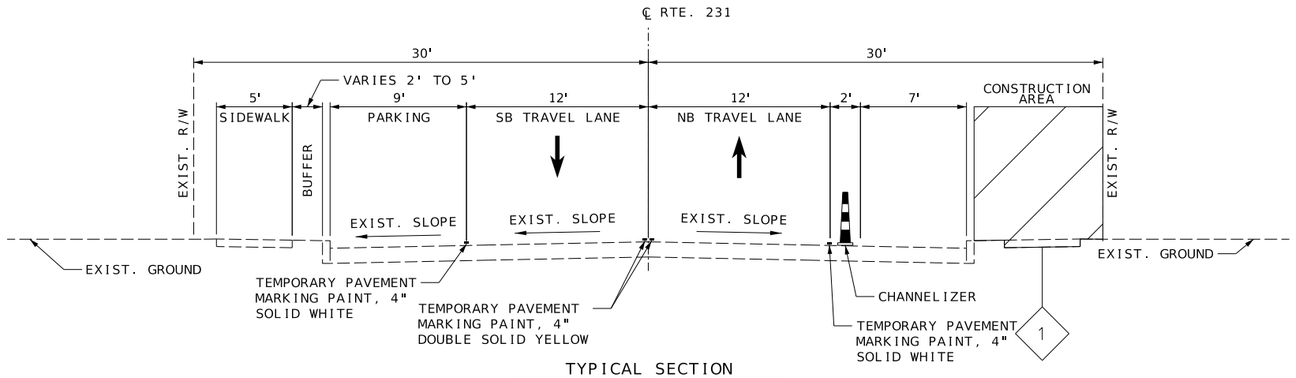
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TYPICAL SECTION
ROUTE 231 / S BROADWAY STREET
STA. 108+12.64 TO STA. 143+27.91
SEGMENT 3 PHASE 1B
NOT TO SCALE

NOTES:

1. PHASE 1B IS INTENDED FOR SIDEWALK CONSTRUCTION WITHIN SEGMENT 3. WORK WILL ONLY BE DONE IN SEGMENT 3 DURING THIS PHASE. THIS WORK SHALL BE COMPLETED BEFORE THE BEGINNING OF PHASES 2, 3, AND 4.
2. CONTRACTOR SHALL RETURN TRAFFIC TO A MINIMUM TWO-LANE, TWO-CONFIGURATION AT THE END OF EACH CALENDAR DAY. THE TRAFFIC SHALL BE RETURNED TO THE ORIGINAL CENTERLINE.
3. TEMPORARY STRIPING SHOWN FOR INFORMATION ONLY. TEMPORARY STRIPING IS ONLY TO BE INSTALLED WHEN DIRECTED BY THE ENGINEER.
4. CONTRACTOR SHALL USE METAL PLATES TO COVER UP EXCAVATIONS AT THE END OF EACH CALENDAR DAY WORKING TO RESTORE TRAFFIC TO EXISTING CENTERLINE.

STATE OF MISSOURI
DENNIS J KOSCIELSKI
NUMBER PE-2005000712
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED: 7/15/2025
ROUTE: 231 | STATE: MO
DISTRICT: SL | SHEET NO.: 208
COUNTY: ST. LOUIS
JOB NO.: J6S3631
CONTRACT ID.:
PROJECT NO.:
BRIDGE NO.:

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DESCRIPTION	DATE

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LAYOUT	DRAWN	REVIEWED
11/2024	JAM	11/2024

MOT LEGEND

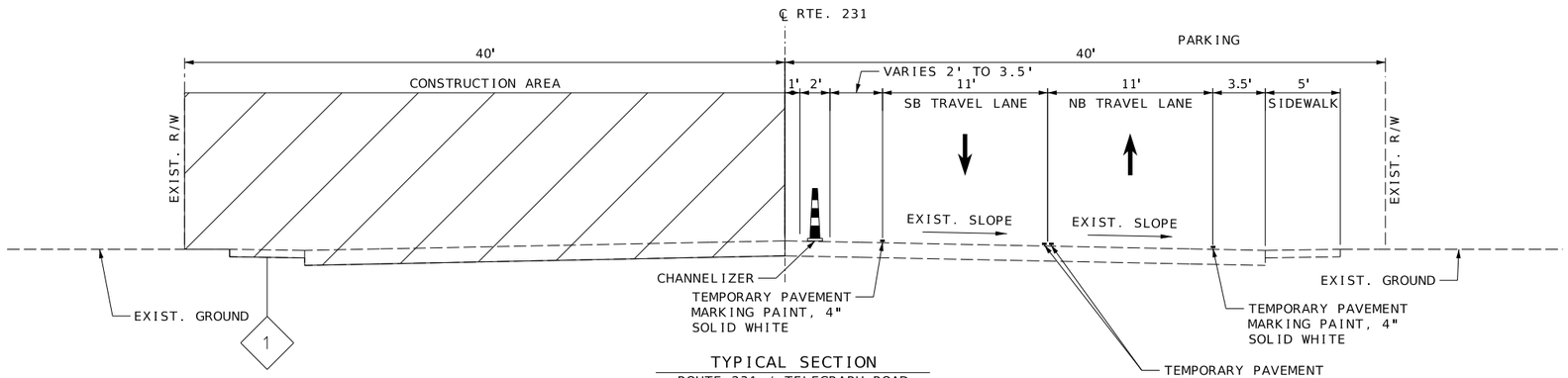
- CONSTRUCTION AREA
- TSWP 4" PAVEMENT MARKING, SOLID WHITE
- TSYP 4" PAVEMENT MARKING, SOLID YELLOW
- TDSYP 4" PAVEMENT MARKING, DOUBLE SOLID YELLOW
- SIGN (SINGLE SIDED)
- MOVABLE BARRICADE
- CHANNELIZERS
- 24" WHITE STOP BAR
- FLOW ARROW
- 1 MOT CONSTRUCTION DETAIL SHEET: SIDEWALK CLOSURE. SEE SHEET 40
- 2 MOT CONSTRUCTION DETAIL SHEET: SIDE ROADS ENTERING WORK ZONES. SEE SHEET 39
- 3 MOT CONSTRUCTION DFETAIL SHEET: LANE CLOSURE FOR ONE LANE - TWO WAY TRAFFIC CONTROL. SEE SHEET 41

NOTES:
1. CONTRACTOR IS RESPONSIBLE FOR ENSURING THAT ALL SIGNS AND INSTALLATIONS COMPLY WITH THE FULL EXTENT OF THE LATEST EDITION OF THE M.U.T.C.D.
2. CONTRACTOR SHALL FIELD ADJUST INSTALLATIONS. AS APPROVED BY THE ENGINEER.
3. REVIEW EPG 616.6.63 CHANNELIZING DEVICES FOR DIFFERENT TYPES AND GUIDELINES FOR THE DEVICES.
4. CONTRACTOR SHALL MAINTAIN ACCESS TO ALL DRIVEWAYS AT ALL TIMES.
5. WORK ZONE SIGNAGE AND TEMPORARY TRAFFIC CONTROL DEVICES NOT SHOWN WILL FOLLOW SECTION 616 OF THE MODOT STANDARD SPECIFICATIONS AND THE TYPICAL APPLICATIONS SHOWN IN PLANS.
6. EXISTING SIGNS WITHIN THE TEMPORARY TRAFFIC CONTROL ZONE THAT CONFLICT WITH TEMPORARY SIGNAGE SHALL BE COVERED.
7. EXISTING PAVEMENT MARKING IN CONFLICT WITH TEMPORARY PAVEMENT MARKINGS SHALL BE REMOVED.
8. EXISTING STOP SIGNS IN CONFLICT WITH TEMPORARY STOP SIGNS SHALL BE COVERED.
9. WORK ZONE SIGNS SHALL BE PLACED TO KEEP PEDESTRIAN ROUTES OPEN. MINIMUM 48" CLEAR SHALL BE PROVIDED ON ALL PEDESTRIAN ACCESS ROUTES.
10. COVER PERMANENT SIGNING IN CONFLICT WITH WORK ZONE SIGNING. FOR SIGNING REMOVAL SEE SIGNAGE PLANS.
11. ALL BUS STOP LOCATIONS AND SIGN FACES SHALL REMAIN UIP OR PROVIDED ALTERNATIVE AS APPROVED BY ENGINEER AND METROBUS.
12. AT LEAST ONE SIDEWALK SHALL BE OPEN AT ALL TIMES WITH ACCESSIBLE CROSSING LOCATIONS.

MAINTENANCE OF TRAFFIC
TYPICAL SECTIONS - PHASE 1B
SHEET 3 OF 53

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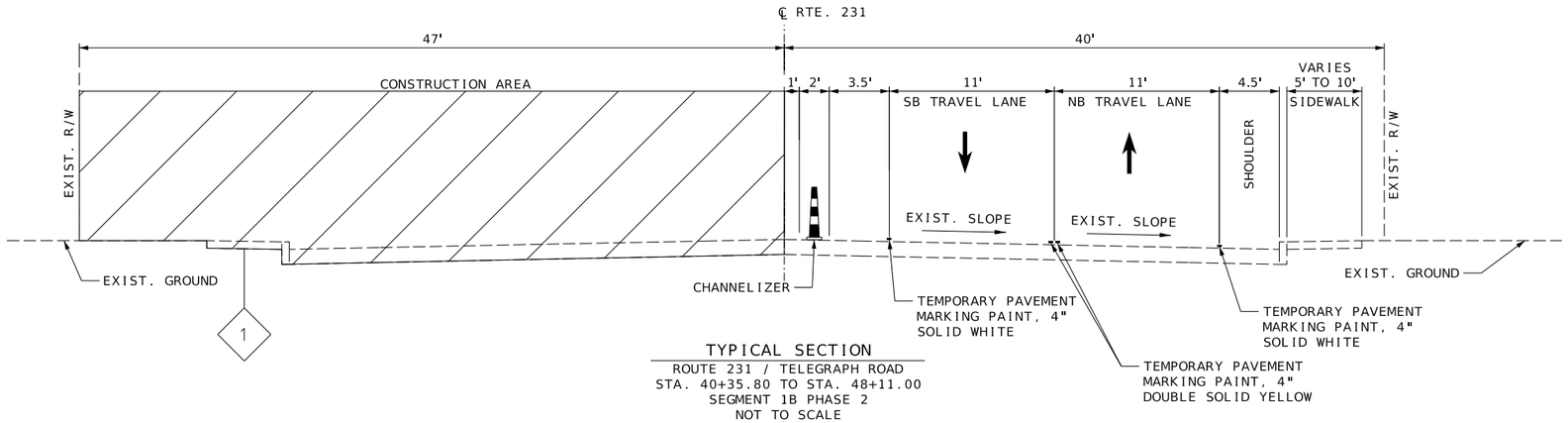
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TYPICAL SECTION
ROUTE 231 / TELEGRAPH ROAD
STA. 13+72.50 TO STA. 40+35.80
SEGMENT 1A PHASE 2
NOT TO SCALE

NOTES:

1. PHASE 2 IS INTENDED FOR COLDMILL AND RESURFACING SB LANES.
2. CONTRACTOR SHALL RETURN TRAFFIC TO A MINIMUM TWO-LANE, TWO-CONFIGURATION AT THE END OF EACH CALENDAR DAY. THE TRAFFIC SHALL BE RETURNED TO THE ORIGINAL CENTERLINE.
3. TEMPORARY STRIPING SHOWN FOR INFORMATION ONLY. TEMPORARY STRIPING IS ONLY TO BE INSTALLED WHEN DIRECTED BY THE ENGINEER.
4. CONTRACTOR SHALL USE METAL PLATES TO COVER UP EXCAVATIONS AT THE END OF EACH CALENDAR DAY WORKING TO RESTORE TRAFFIC TO EXISTING CENTERLINE.
5. CONTRACTOR SHALL PROVIDE EDGE TREATMENT AT THE END OF EACH CALENDAR DAY FOR EDGE DROP OFF.



TYPICAL SECTION
ROUTE 231 / TELEGRAPH ROAD
STA. 40+35.80 TO STA. 48+11.00
SEGMENT 1B PHASE 2
NOT TO SCALE

MOT LEGEND

- CONSTRUCTION AREA
- TSWP 4" PAVEMENT MARKING, SOLID WHITE
- TSYP 4" PAVEMENT MARKING, SOLID YELLOW
- TDSYP 4" PAVEMENT MARKING, DOUBLE SOLID YELLOW
- SIGN (SINGLE SIDED)
- MOVABLE BARRICADE
- CHANNELIZERS
- 24" WHITE STOP BAR
- FLOW ARROW

1. MOT CONSTRUCTION DETAIL SHEET: SIDEWALK CLOSURE. SEE SHEET 40
2. MOT CONSTRUCTION DETAIL SHEET: SIDE ROADS ENTERING WORK ZONES. SEE SHEET 39
3. MOT CONSTRUCTION DFETAIL SHEET: LANE CLOSURE FOR ONE LANE - TWO WAY TRAFFIC CONTROL. SEE SHEET 41

NOTES:

1. CONTRACTOR IS RESPONSIBLE FOR ENSURING THAT ALL SIGNS AND INSTALLATIONS COMPLY WITH THE FULL EXTENT OF THE LATEST EDITION OF THE M.U.T.C.D.
2. CONTRACTOR SHALL FIELD ADJUST INSTALLATIONS. AS APPROVED BY THE ENGINEER.
3. REVIEW EPG 616.6.63 CHANNELIZING DEVICES FOR DIFFERENT TYPES AND GUIDELINES FOR THE DEVICES.
4. CONTRACTOR SHALL MAINTAIN ACCESS TO ALL DRIVEWAYS AT ALL TIMES.
5. WORK ZONE SIGNAGE AND TEMPORARY TRAFFIC CONTROL DEVICES NOT SHOWN WILL FOLLOW SECTION 616 OF THE MODOT STANDARD SPECIFICATIONS AND THE TYPICAL APPLICATIONS SHOWN IN PLANS.
6. EXISTING SIGNS WITHIN THE TEMPORARY TRAFFIC CONTROL ZONE THAT CONFLICT WITH TEMPORARY SIGNAGE SHALL BE COVERED.
7. EXISTING PAVEMENT MARKING IN CONFLICT WITH TEMPORARY PAVEMENT MARKINGS SHALL BE REMOVED.
8. EXISTING STOP SIGNS IN CONFLICT WITH TEMPORARY STOP SIGNS SHALL BE COVERED.
9. WORK ZONE SIGNS SHALL BE PLACED TO KEEP PEDESTRIAN ROUTES OPEN. MINIMUM 48" CLEAR SHALL BE PROVIDED ON ALL PEDESTRIAN ACCESS ROUTES.
10. COVER PERMANENT SIGNING IN CONFLICT WITH WORK ZONE SIGNING. FOR SIGNING REMOVAL SEE SIGNAGE PLANS.
11. ALL BUS STOP LOCATIONS AND SIGN FACES SHALL REMAIN UIP OR PROVIDED ALTERNATIVE AS APPROVED BY ENGINEER AND METROBUS.
12. AT LEAST ONE SIDEWALK SHALL BE OPEN AT ALL TIMES WITH ACCESSIBLE CROSSING LOCATIONS.

MAINTENANCE OF TRAFFIC
TYPICAL SECTIONS - PHASE 2
SHEET 4 OF 53

LAYOUT 11/2024
DRAWN JAM 11/2024
REVIEWED JAM

STATE OF MISSOURI
DENNIS J KOSCIELSKI
NUMBER PE-2005000712
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED 7/15/2025
ROUTE 231 | STATE MO
DISTRICT SL | SHEET NO. 209
COUNTY ST. LOUIS
JOB NO. J6S3631
CONTRACT ID.
PROJECT NO.
BRIDGE NO.

DESCRIPTION	DATE

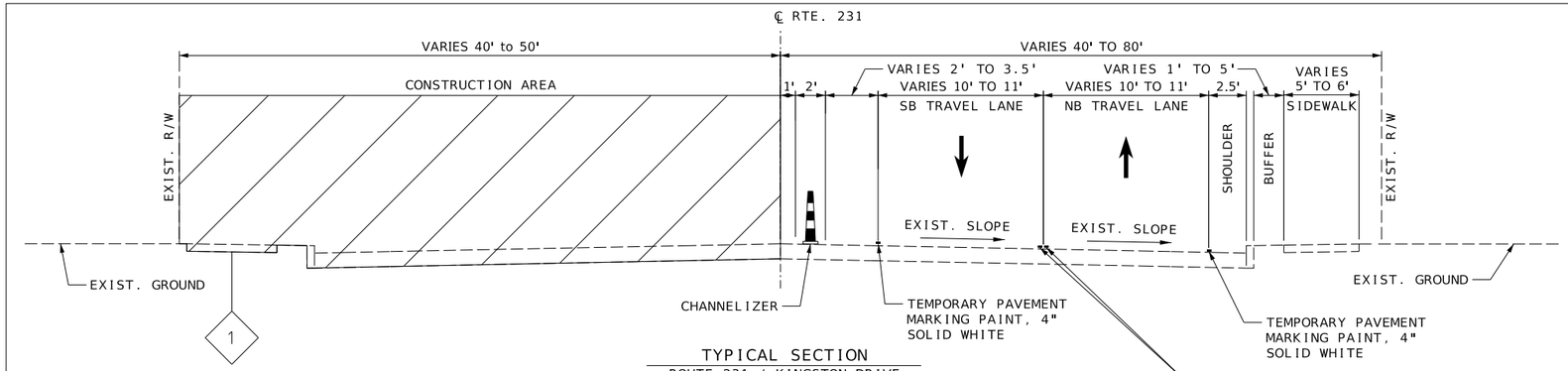
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MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
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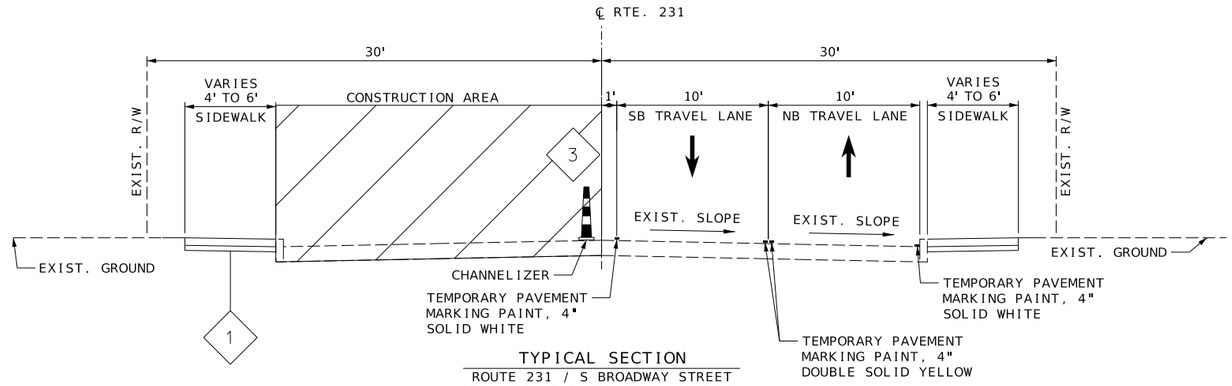
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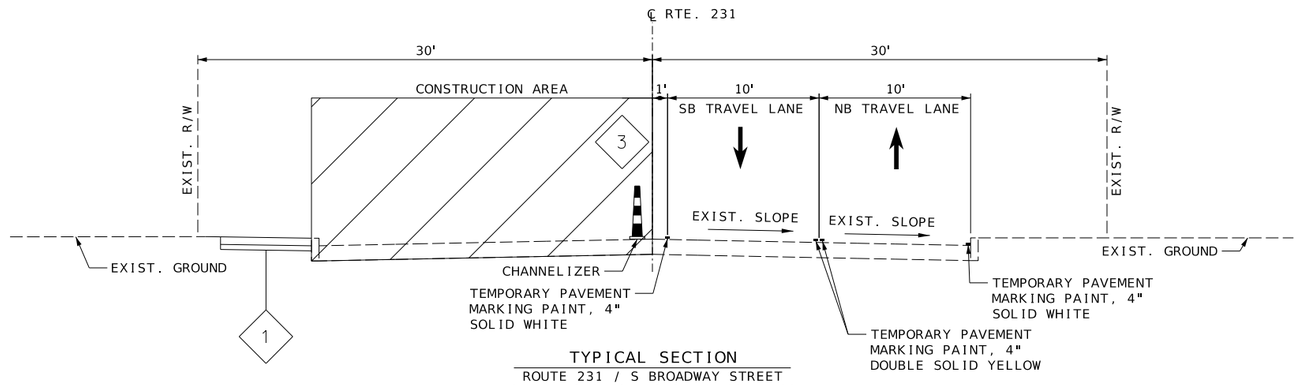
TYPICAL SECTION

ROUTE 231 / KINGSTON DRIVE
STA. 48+11.00 TO STA. 108+12.64
SEGMENT 2 PHASE 2
NOT TO SCALE



TYPICAL SECTION

ROUTE 231 / S BROADWAY STREET
STA. 108+12.64 TO STA. 143+27.91
SEGMENT 3 PHASE 2
NOT TO SCALE



TYPICAL SECTION

ROUTE 231 / S BROADWAY STREET
STA. 143+27.91 TO STA. 168+15.00
SEGMENT 4 PHASE 2
NOT TO SCALE

DISCLAIMER

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NOTES:

1. PHASE 2 CONSTRUCTION WORK WITHIN SEGMENT 3 WILL BE COMPLETED WITH THE USE OF FLAGGERS AND LANE CLOSURES. SEE THE APPLICABLE TYPICAL APPLICATION.
2. PHASE 2 IS INTENDED FOR COLDMILL AND RESURFACING SB LANES.
3. CONTRACTOR SHALL RETURN TRAFFIC TO A MINIMUM TWO-LANE, TWO-CONFIGURATION AT THE END OF EACH CALENDAR DAY. THE TRAFFIC SHALL BE RETURNED TO THE ORIGINAL CENTERLINE.
4. TEMPORARY STRIPING SHOWN FOR INFORMATION ONLY. TEMPORARY STRIPING IS ONLY TO BE INSTALLED WHEN DIRECTED BY THE ENGINEER.
5. CONTRACTOR SHALL USE METAL PLATES TO COVER UP EXCAVATIONS AT THE END OF EACH CALENDAR DAY WORKING TO RESTORE TRAFFIC TO EXISTING CENTERLINE.
6. CONTRACTOR SHALL PROVIDE EDGE TREATMENT AT THE END OF EACH CALENDAR DAY FOR EDGE DROP OFF.

NOTES:

1. PHASE 2 CONSTRUCTION WORK WITHIN SEGMENT 4 WILL BE COMPLETED WITH THE USE OF FLAGGERS AND LANE CLOSURES. SEE THE APPLICABLE TYPICAL APPLICATION.
2. PHASE 2 IS INTENDED FOR COLDMILL AND RESURFACING SB LANES.
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MOT LEGEND

- CONSTRUCTION AREA
- TSWP 4" PAVEMENT MARKING, SOLID WHITE
- TSYP 4" PAVEMENT MARKING, SOLID YELLOW
- TDSYP 4" PAVEMENT MARKING, DOUBLE SOLID YELLOW
- SIGN (SINGLE SIDED)
- MOVABLE BARRICADE
- CHANNELIZERS
- 24" WHITE STOP BAR
- FLOW ARROW
- 1 MOT CONSTRUCTION DETAIL SHEET: SIDEWALK CLOSURE. SEE SHEET 40
- 2 MOT CONSTRUCTION DETAIL SHEET: SIDE ROADS ENTERING WORK ZONES. SEE SHEET 39
- 3 MOT CONSTRUCTION DFETAIL SHEET: LANE CLOSURE FOR ONE LANE - TWO WAY TRAFFIC CONTROL. SEE SHEET 41

NOTES:

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3. REVIEW EPG 616.6.63 CHANNELIZING DEVICES FOR DIFFERENT TYPES AND GUIDELINES FOR THE DEVICES.
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11. ALL BUS STOP LOCATIONS AND SIGN FACES SHALL REMAIN UIP OR PROVIDED ALTERNATIVE AS APPROVED BY ENGINEER AND METROBUS.
12. AT LEAST ONE SIDEWALK SHALL BE OPEN AT ALL TIMES WITH ACCESSIBLE CROSSING LOCATIONS.

MAINTENANCE OF TRAFFIC
TYPICAL SECTIONS - PHASE 2
SHEET 5 OF 53

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LAYOUT 11/2024
DRAWN JAM 11/2024
REVIEWED JAM

STATE OF MISSOURI
DENNIS J KOSCIELSKI
NUMBER PE-2005000712
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED 7/15/2025

ROUTE	STATE
231	MO
DISTRICT	SHEET NO.
SL	210

COUNTY ST. LOUIS
JOB NO. J6S3631
CONTRACT ID.
PROJECT NO.
BRIDGE NO.

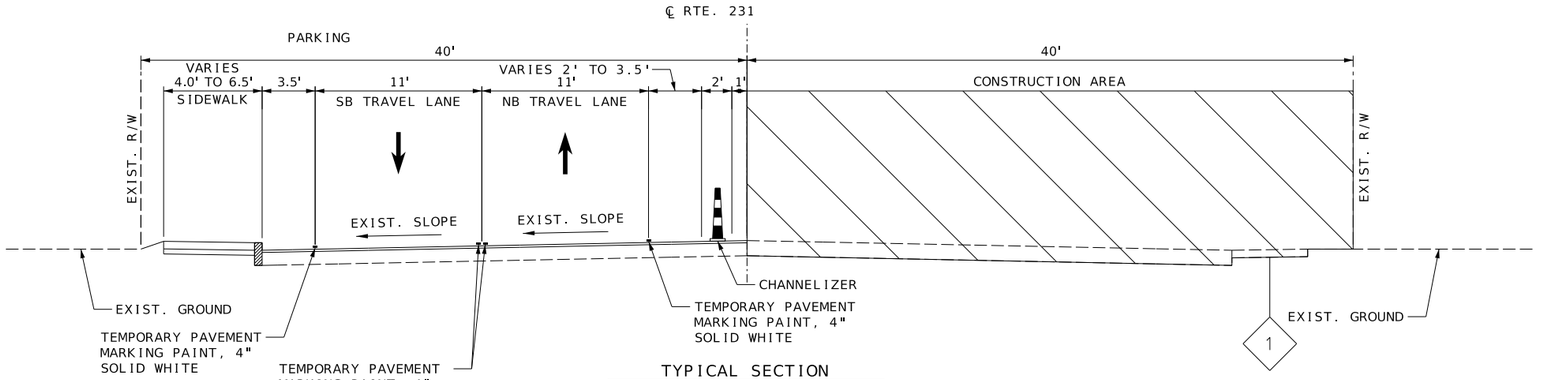
DESCRIPTION	DATE

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JEFFERSON CITY, MO 65102
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TYPICAL SECTION

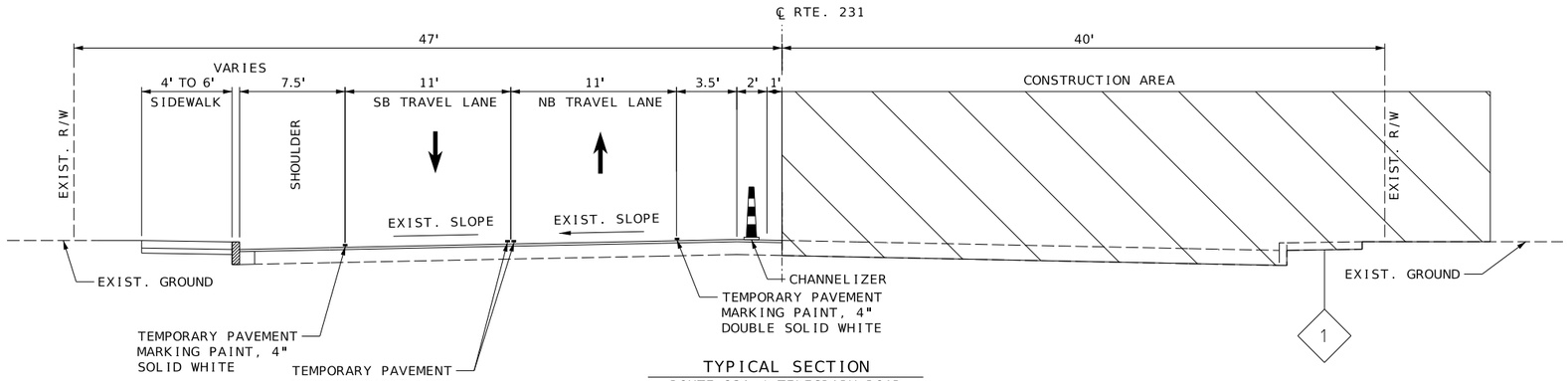
ROUTE 231 / TELEGRAPH ROAD
STA. 13+72.50 TO STA. 40+35.80
SEGMENT 1A PHASE 3
NOT TO SCALE

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NOTES:

1. PHASE 3 IS INTENDED FOR COLDMILL AND RESURFACING NB LANES.
2. CONTRACTOR SHALL RETURN TRAFFIC TO A MINIMUM TWO-LANE, TWO-CONFIGURATION AT THE END OF EACH CALENDAR DAY. THE TRAFFIC SHALL BE RETURNED TO THE ORIGINAL CENTERLINE.
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TYPICAL SECTION

ROUTE 231 / TELEGRAPH ROAD
STA. 40+35.80 TO STA. 48+11.00
SEGMENT 1B PHASE 3
NOT TO SCALE

MOT LEGEND

- CONSTRUCTION AREA
- TSWP 4" PAVEMENT MARKING, SOLID WHITE
- TSYP 4" PAVEMENT MARKING, SOLID YELLOW
- TDSYP 4" PAVEMENT MARKING, DOUBLE SOLID YELLOW
- SIGN (SINGLE SIDED)
- MOVABLE BARRICADE
- CHANNELIZERS
- 24" WHITE STOP BAR
- FLOW ARROW

1. MOT CONSTRUCTION DETAIL SHEET: SIDEWALK CLOSURE. SEE SHEET 40
2. MOT CONSTRUCTION DETAIL SHEET: SIDE ROADS ENTERING WORK ZONES. SEE SHEET 39
3. MOT CONSTRUCTION DFETAIL SHEET: LANE CLOSURE FOR ONE LANE - TWO WAY TRAFFIC CONTROL. SEE SHEET 41

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MAINTENANCE OF TRAFFIC
TYPICAL SECTIONS - PHASE 3
SHEET 6 OF 53

℄ RTE. 231

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LAYOUT 11/2024
DRAWN JAM 11/2024
REVIEWED JAM

STATE OF MISSOURI
DENNIS J KOSCIELSKI
NUMBER PE-2005000712
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED 7/15/2025

ROUTE	STATE
231	MO
DISTRICT	SHEET NO.
SL	211

COUNTY: ST. LOUIS
JOB NO.: J6S3631
CONTRACT ID.:
PROJECT NO.:
BRIDGE NO.:

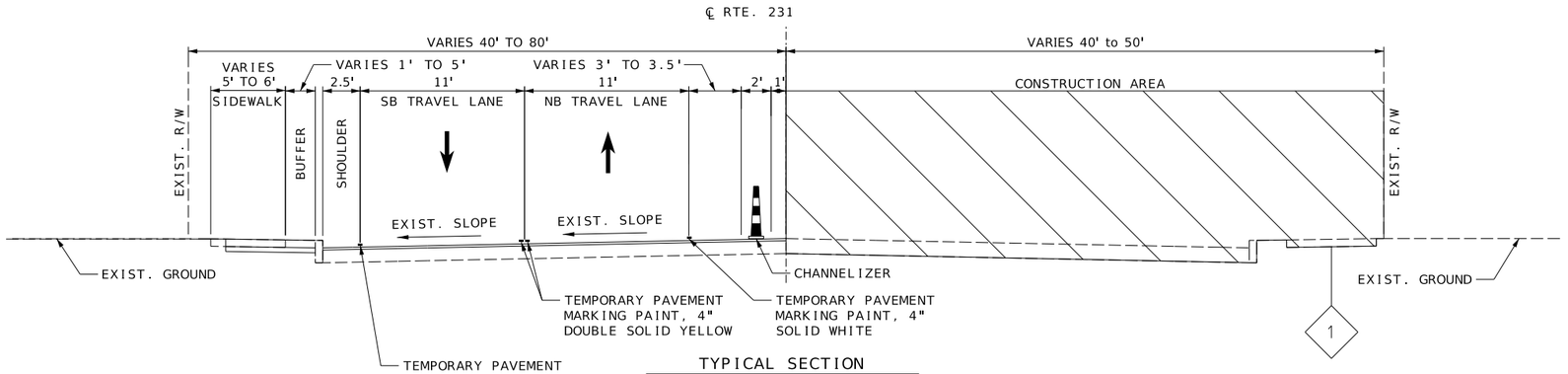
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DESCRIPTION	DATE

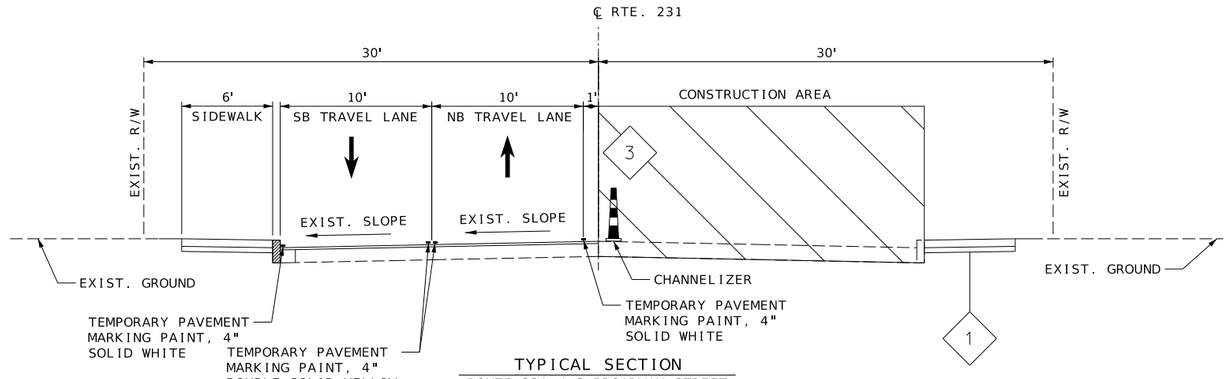
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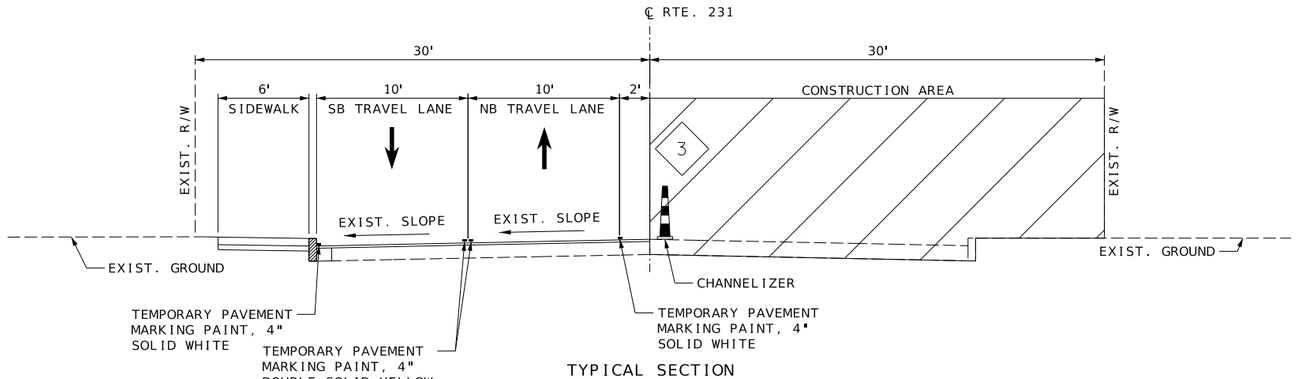
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TYPICAL SECTION
ROUTE 231 / KINGSTON DRIVE
STA. 48+11.00 TO STA. 108+12.64
SEGMENT 2 PHASE 3
NOT TO SCALE



TYPICAL SECTION
ROUTE 231 / S BROADWAY STREET
STA. 108+12.64 TO STA. 143+27.91
SEGMENT 3 PHASE 3
NOT TO SCALE



TYPICAL SECTION
ROUTE 231 / S BROADWAY STREET
STA. 143+27.91 TO STA. 168+15.00
SEGMENT 4 PHASE 3
NOT TO SCALE

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NOTES:

1. PHASE 3 CONSTRUCTION WORK WITHIN SEGMENT 3 WILL BE COMPLETED WITH THE USE OF FLAGGERS AND LANE CLOSURES. SEE THE APPLICABLE TYPICAL APPLICATION.
2. PHASE 3 IS INTENDED FOR COLDMILL AND RESURFACING NB LANES.
3. CONTRACTOR SHALL RETURN TRAFFIC TO A MINIMUM TWO-LANE, TWO-CONFIGURATION AT THE END OF EACH CALENDAR DAY. THE TRAFFIC SHALL BE RETURNED TO THE ORIGINAL CENTERLINE.
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MOT LEGEND

- CONSTRUCTION AREA
- TSWP 4" PAVEMENT MARKING, SOLID WHITE
- TSYP 4" PAVEMENT MARKING, SOLID YELLOW
- TDSYP 4" PAVEMENT MARKING, DOUBLE SOLID YELLOW
- SIGN (SINGLE SIDED)
- MOVABLE BARRICADE
- CHANNELIZERS
- 24" WHITE STOP BAR
- FLOW ARROW

1. MOT CONSTRUCTION DETAIL SHEET: SIDEWALK CLOSURE. SEE SHEET 40
2. MOT CONSTRUCTION DETAIL SHEET: SIDE ROADS ENTERING WORK ZONES. SEE SHEET 39
3. MOT CONSTRUCTION DFETAIL SHEET: LANE CLOSURE FOR ONE LANE - TWO WAY TRAFFIC CONTROL. SEE SHEET 41

NOTES:

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MAINTENANCE OF TRAFFIC
TYPICAL SECTIONS - PHASE 3
SHEET 7 OF 53

LAYOUT 11/2024
DRAWN JAM 11/2024
REVIEWED JAM

STATE OF MISSOURI
DENNIS J KOSCIELSKI
NUMBER PE-2005000712
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED 7/15/2025
ROUTE 231 | STATE MO
DISTRICT SL | SHEET NO. 212
COUNTY ST. LOUIS
JOB NO. J6S3631
CONTRACT ID.
PROJECT NO.
BRIDGE NO.

DESCRIPTION | DATE

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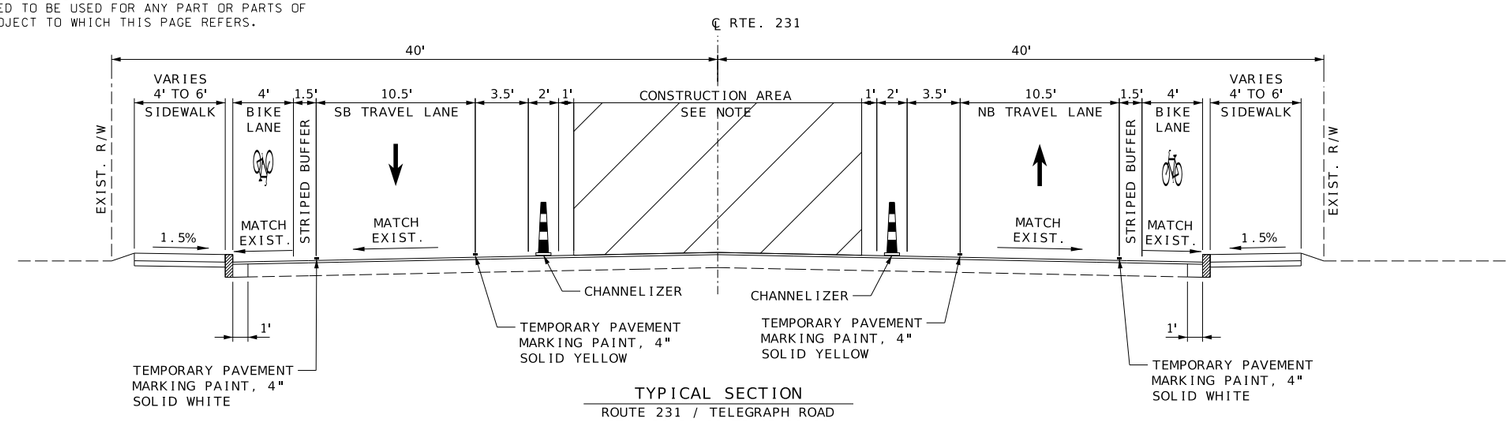
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Professional Engineer 001632
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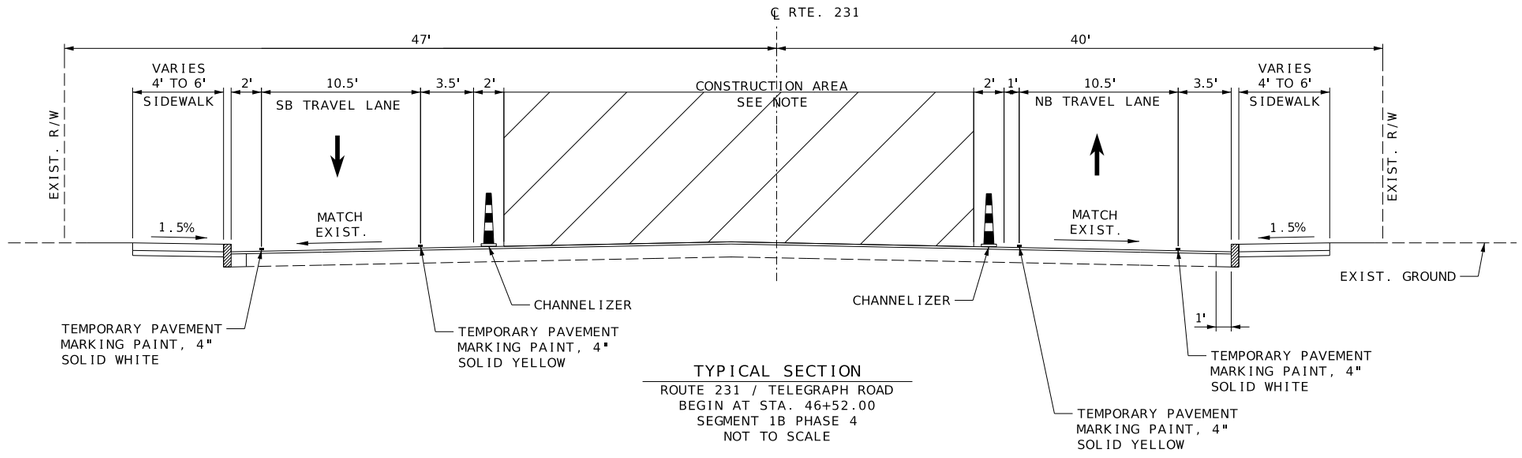
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TYPICAL SECTION
ROUTE 231 / TELEGRAPH ROAD
STA. 38+21.00 TO 43+90.00
SEGMENT 1A PHASE 4
NOT TO SCALE

NOTES:

1. PHASE 4 IS INTENDED FOR ALL CONCRETE ISLAND CONSTRUCTION. SEE MOT PLAN SHEETS FOR LOCATIONS OF PROPOSED CONCRETE ISLANDS. PHASE 4 MUST OCCUR AFTER ALL OTHER PHASES.
2. CONTRACTOR SHALL RETURN TRAFFIC TO A MINIMUM TWO-LANE, TWO-CONFIGURATION AT THE END OF EACH CALENDAR DAY. THE TRAFFIC SHALL BE RETURNED TO THE ORIGINAL CENTERLINE.
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5. CONTRACTOR SHALL PROVIDE EDGE TREATMENT AT THE END OF EACH CALENDAR DAY FOR EDGE DROP OFF.



TYPICAL SECTION
ROUTE 231 / TELEGRAPH ROAD
BEGIN AT STA. 46+52.00
SEGMENT 1B PHASE 4
NOT TO SCALE

MOT LEGEND

- CONSTRUCTION AREA
- TSWP 4" PAVEMENT MARKING, SOLID WHITE
- TSYP 4" PAVEMENT MARKING, SOLID YELLOW
- TDSYP 4" PAVEMENT MARKING, DOUBLE SOLID YELLOW
- SIGN (SINGLE SIDED)
- MOVABLE BARRICADE
- CHANNELIZERS
- 24" WHITE STOP BAR
- FLOW ARROW

1. MOT CONSTRUCTION DETAIL SHEET: SIDEWALK CLOSURE. SEE SHEET 40
2. MOT CONSTRUCTION DETAIL SHEET: SIDE ROADS ENTERING WORK ZONES. SEE SHEET 39
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MAINTENANCE OF TRAFFIC
TYPICAL SECTIONS - PHASE 4
SHEET 8 OF 53

	DESCRIPTION	DATE
LAYOUT		11/2024
DRAWN		JAM 11/2024
REVIEWED		JAM

STATE OF MISSOURI
DENNIS J KOSCIELSKI
NUMBER PE-2005000712
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED
7/15/2025

ROUTE	STATE
231	MO
DISTRICT	SHEET NO.
SL	213

COUNTY
ST. LOUIS

JOB NO.
J6S3631

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

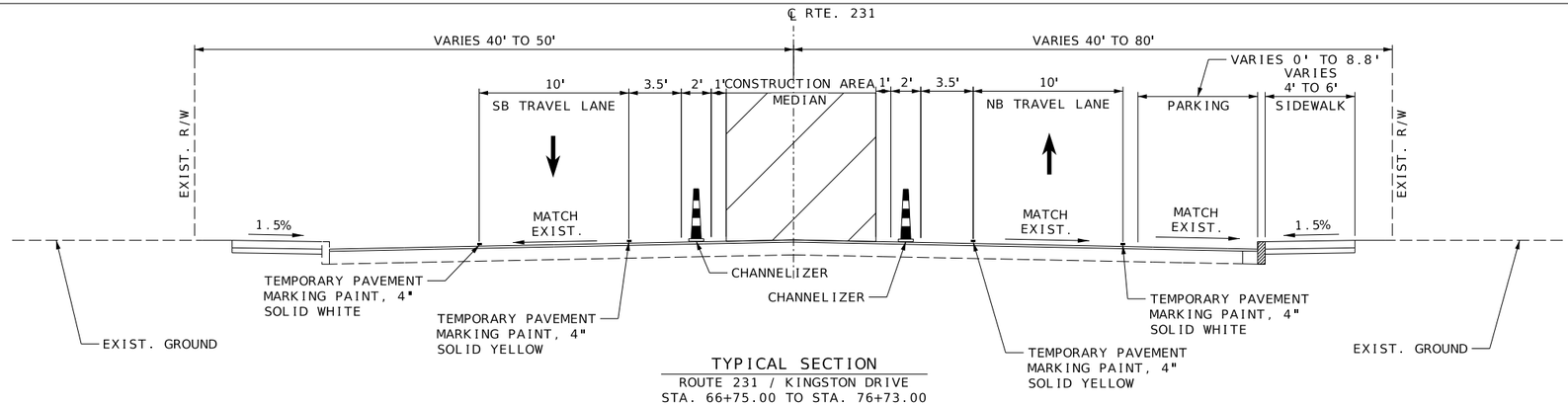
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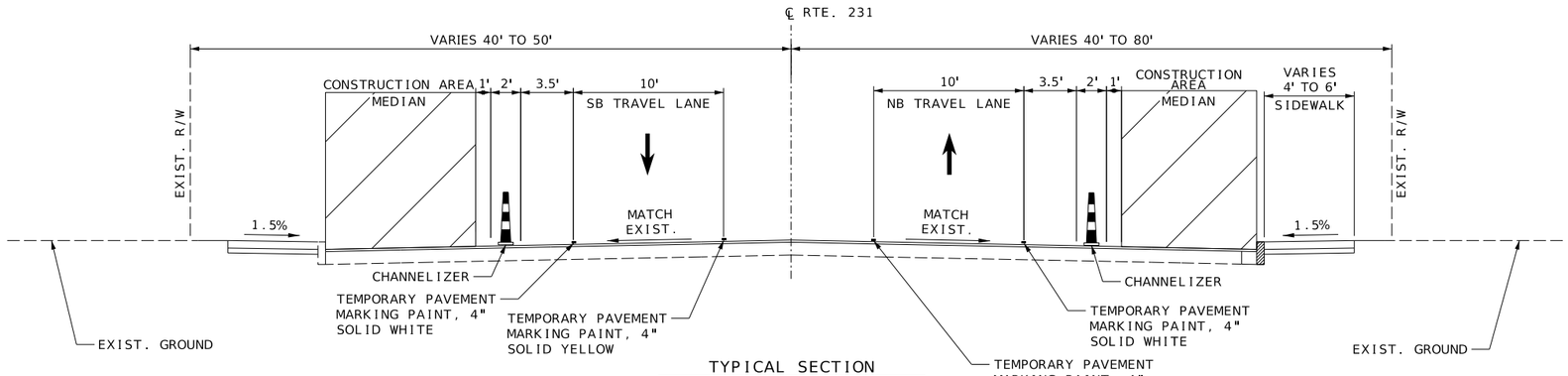
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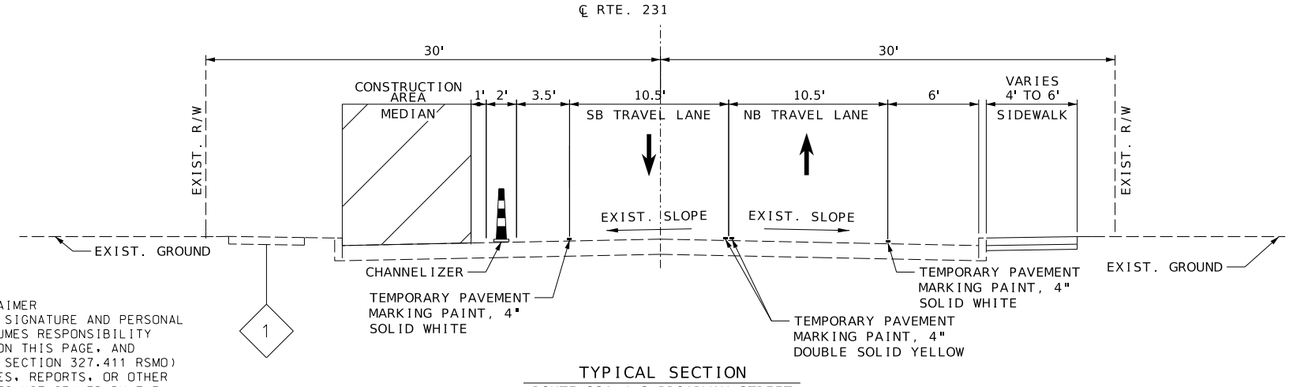
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TYPICAL SECTION
ROUTE 231 / KINGSTON DRIVE
STA. 66+75.00 TO STA. 76+73.00
SEGMENT 2 PHASE 4
NOT TO SCALE



TYPICAL SECTION
ROUTE 231 / KINGSTON DRIVE
STA. 84+07.00 TO STA. 95+06.00
STA. 111+32.00 TO STA. 126+89.00
SEGMENT 2 & 3 PHASE 4
NOT TO SCALE



TYPICAL SECTION
ROUTE 231 / S BROADWAY STREET
STA. 128+76.00 TO STA. 133+10.00
SEGMENT 3 PHASE 4
NOT TO SCALE

NOTES:

1. PHASE 4 IS INTENDED FOR ALL CONCRETE ISLAND CONSTRUCTION. SEE MOT PLAN SHEETS FOR LOCATIONS OF PROPOSED CONCRETE ISLANDS. PHASE 4 MUST OCCUR AFTER ALL OTHER PHASES.
2. CONTRACTOR SHALL RETURN TRAFFIC TO A MINIMUM TWO-LANE, TWO-CONFIGURATION AT THE END OF EACH CALENDAR DAY. THE TRAFFIC SHALL BE RETURNED TO THE ORIGINAL CENTERLINE.
3. TEMPORARY STRIPING SHOWN FOR INFORMATION ONLY. TEMPORARY STRIPING IS ONLY TO BE INSTALLED WHEN DIRECTED BY THE ENGINEER.
4. CONTRACTOR SHALL USE METAL PLATES TO COVER UP EXCAVATIONS AT THE END OF EACH CALENDAR DAY WORKING TO RESTORE TRAFFIC TO EXISTING CENTERLINE.
5. CONTRACTOR SHALL PROVIDE EDGE TREATMENT AT THE END OF EACH CALENDAR DAY FOR EDGE DROP OFF.

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- CHANNELIZERS
- 24" WHITE STOP BAR
- FLOW ARROW

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2. MOT CONSTRUCTION DETAIL SHEET: SIDE ROADS ENTERING WORK ZONES. SEE SHEET 39
3. MOT CONSTRUCTION DFETAIL SHEET: LANE CLOSURE FOR ONE LANE - TWO WAY TRAFFIC CONTROL. SEE SHEET 41

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MAINTENANCE OF TRAFFIC
TYPICAL SECTIONS - PHASE 4
SHEET 9 OF 53

	DATE	DESCRIPTION
LAYOUT	11/2024	
DRAWN	JAM 11/2024	
REVIEWED	JAM	

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DENNIS J KOSCIELSKI
NUMBER PE-2005000712
STATE OF MISSOURI
PROFESSIONAL ENGINEER

DATE PREPARED: 7/15/2025
ROUTE: 231 | STATE: MO
DISTRICT: SL | SHEET NO.: 214
COUNTY: ST. LOUIS
JOB NO.: J6S3631
CONTRACT ID.:
PROJECT NO.:
BRIDGE NO.:

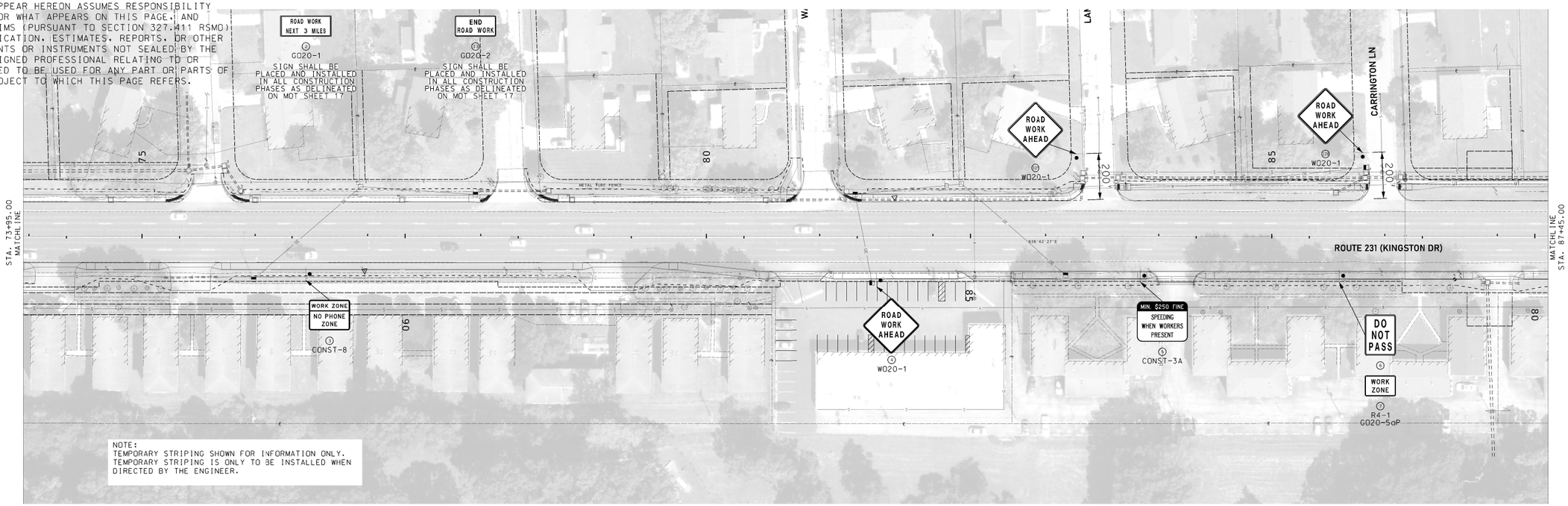
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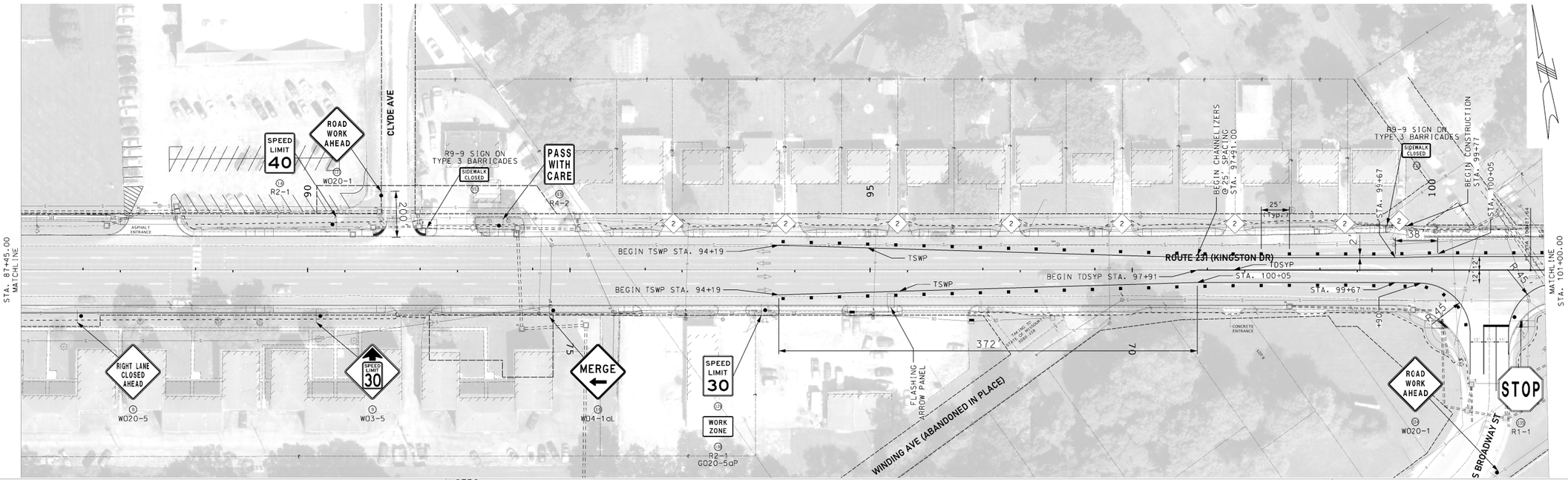
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2. MOT CONSTRUCTION DETAIL SHEET: SIDE ROADS ENTERING WORK ZONES. SEE SHEET 39
3. MOT CONSTRUCTION DETAIL SHEET: LANE CLOSURE FOR ONE LANE - TWO WAY TRAFFIC CONTROL. SEE SHEET 41

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SCALE
0 50 100 150

MAINTENANCE OF TRAFFIC
SEGMENT 2 PHASE 1A
SHEET 10 OF 53

	DATE	DESCRIPTION
LAYOUT	11/2024	
DRAWN	JAM 11/2024	
REVIEWED	JAM	

STATE OF MISSOURI
DENNIS J KOSCIELSKI
NUMBER PE-2005000712
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED
7/15/2025

ROUTE	STATE
231	MO
DISTRICT	SHEET NO.
SL	215

COUNTY
ST. LOUIS

JOB NO.
J6S3631

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

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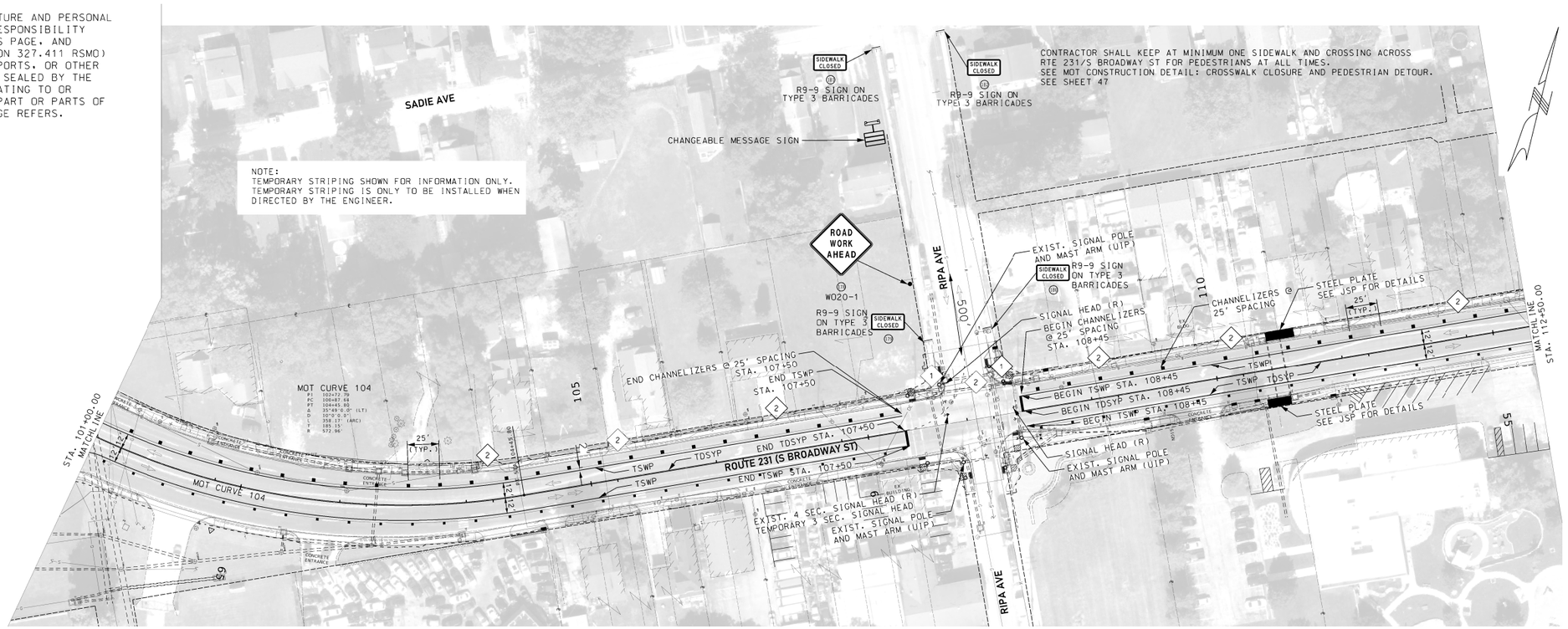
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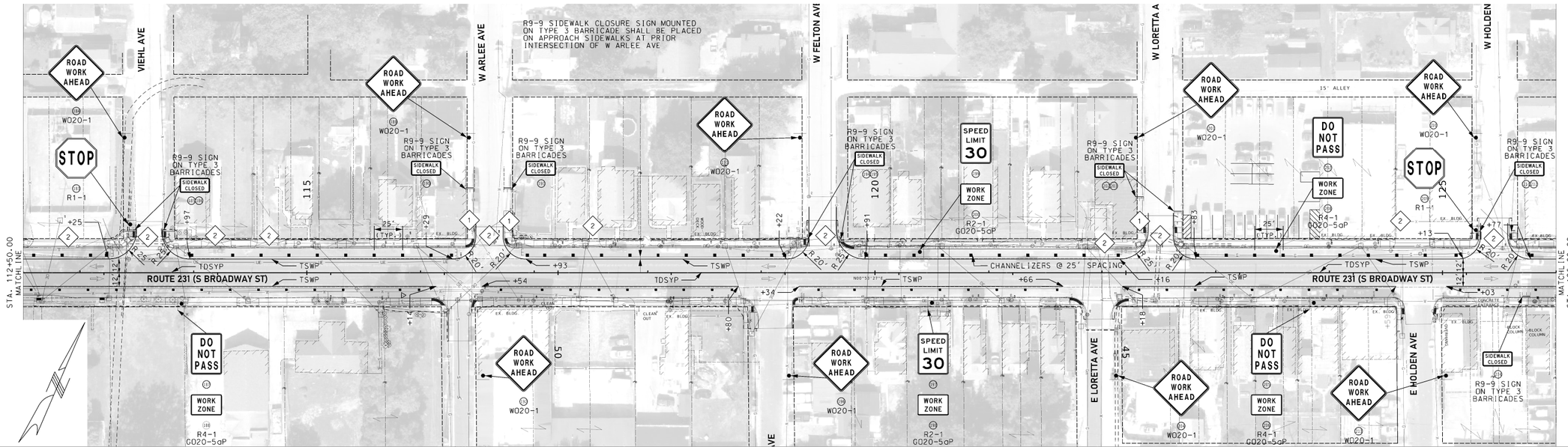
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SCALE

0 50 100 150

MAINTENANCE OF TRAFFIC
SEGMENT 3 PHASE 1A
SHEET 11 OF 53

	DATE	DESCRIPTION
LAYOUT	11/2024	
DRAWN	JAM 11/2024	
REVIEWED	JAM	

DENNIS J KOSCIELSKI NUMBER PE-2005000712 STATE OF MISSOURI PROFESSIONAL ENGINEER

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DATE PREPARED 7/15/2025

ROUTE	STATE
231	MO
DISTRICT	SHEET NO.
SL	216

COUNTY ST. LOUIS

JOB NO. J6S3631

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

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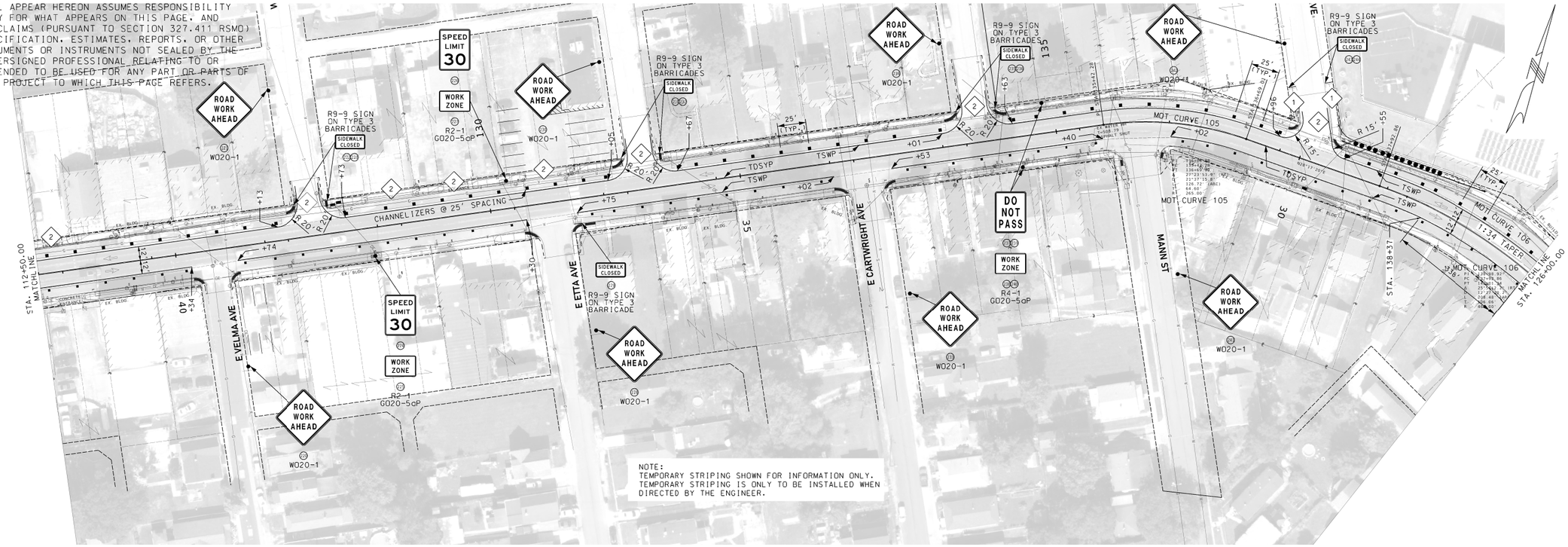
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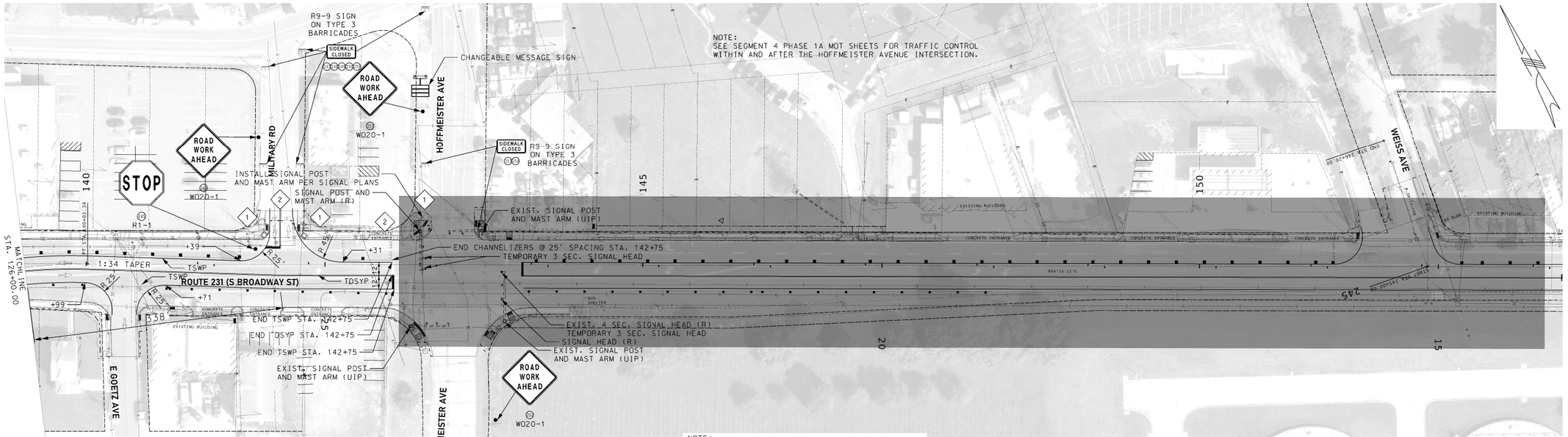
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2. MOT CONSTRUCTION DETAIL SHEET: SIDE ROADS ENTERING WORK ZONES. SEE SHEET 39
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SCALE
0 50 100 150

MAINTENANCE OF TRAFFIC
SEGMENT 3 PHASE 1A
SHEET 12 OF 53

	DATE	DESCRIPTION
LAYOUT	11/2024	
DRAWN	JAM 11/2024	
REVIEWED		

STATE OF MISSOURI
DENNIS J KOSCIELSKI
NUMBER PE-2005000712
PROFESSIONAL ENGINEER

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DATE PREPARED 7/15/2025

ROUTE	STATE
231	MO
DISTRICT	SHEET NO.
SL	217

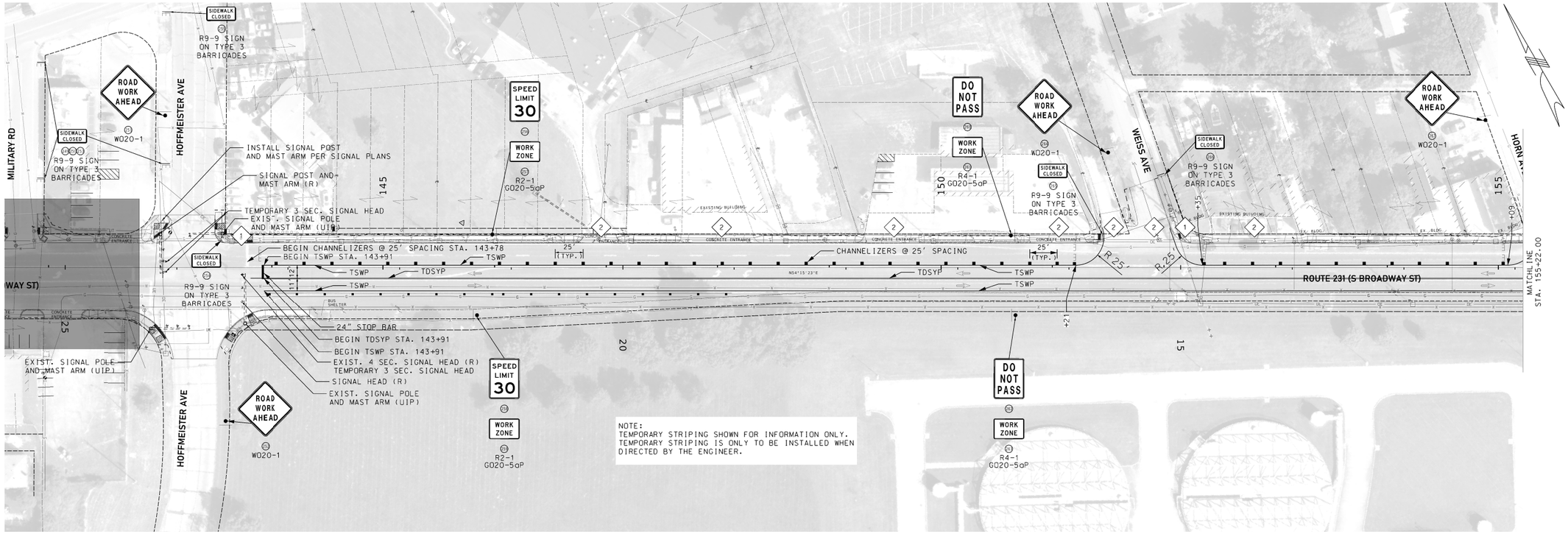
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JOB NO.: J6S3631
CONTRACT ID.:
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BRIDGE NO.:

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SCALE

0 50 100 150

MAINTENANCE OF TRAFFIC
SEGMENT 4 PHASE 1A
SHEET 13 OF 53

	DESCRIPTION	DATE
LAYOUT		11/2024
DRAWN		11/2024
REVIEWED		

STATE OF MISSOURI
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COUNTY
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CONTRACT ID.

PROJECT NO.

BRIDGE NO.

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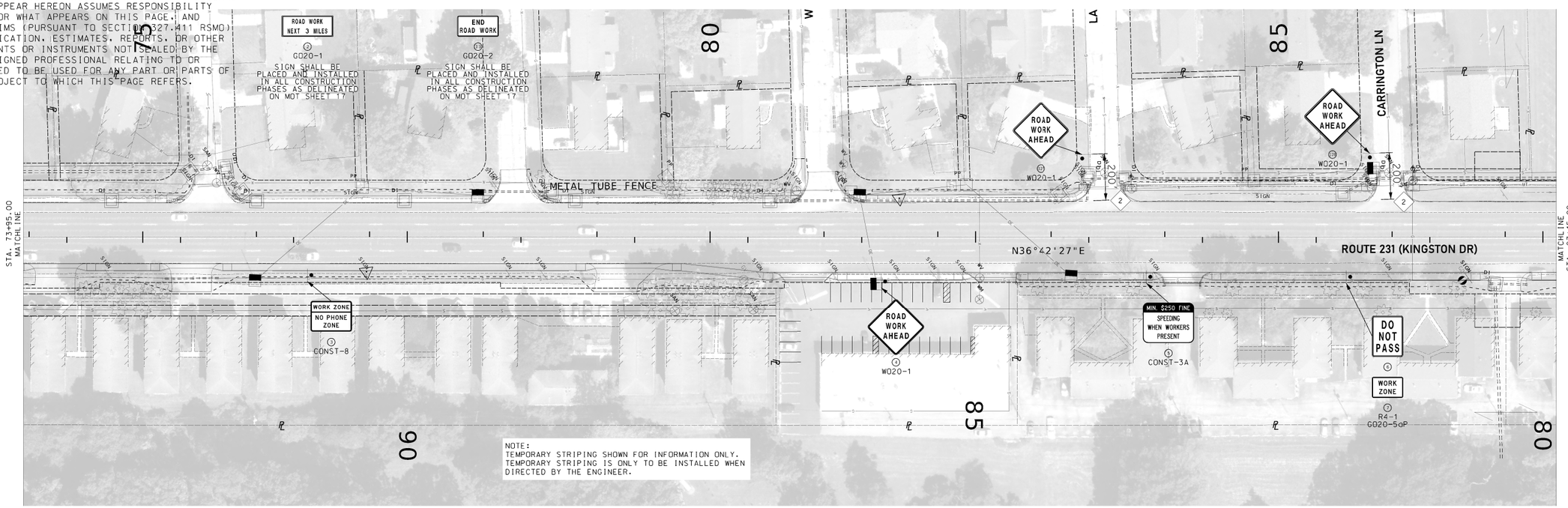
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MOT LEGEND

- CONSTRUCTION AREA
- TSWP 4" PAVEMENT MARKING. SOLID WHITE
- TSYP 4" PAVEMENT MARKING. SOLID YELLOW
- TDSYP 4" PAVEMENT MARKING. DOUBLE SOLID YELLOW
- SIGN (SINGLE SIDED)
- MOVABLE BARRICADE
- CHANNELIZERS
- 24" WHITE STOP BAR
- FLOW ARROW

1. MOT CONSTRUCTION DETAIL SHEET: SIDEWALK CLOSURE. SEE SHEET 40
2. MOT CONSTRUCTION DETAIL SHEET: SIDE ROADS ENTERING WORK ZONES. SEE SHEET 39
3. MOT CONSTRUCTION DETAIL SHEET: LANE CLOSURE FOR ONE LANE - TWO WAY TRAFFIC CONTROL. SEE SHEET 41

NOTES:
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2. CONTRACTOR SHALL FIELD ADJUST INSTALLATIONS. AS APPROVED BY THE ENGINEER.
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SCALE
0 50 100 150

MAINTENANCE OF TRAFFIC
SEGMENT 2 PHASE 1B
SHEET 14 OF 53

	DATE	DESCRIPTION
LAYOUT	11/2024	
DRAWN	JAM 11/2024	
REVIEWED	JAM	

STATE OF MISSOURI
DENNIS J KOSCIELSKI
NUMBER PE-2005000712
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED 7/15/2025

ROUTE	STATE
231	MO
DISTRICT	SHEET NO.
SL	219

COUNTY: ST. LOUIS
JOB NO.: J6S3631
CONTRACT ID.:
PROJECT NO.:
BRIDGE NO.:

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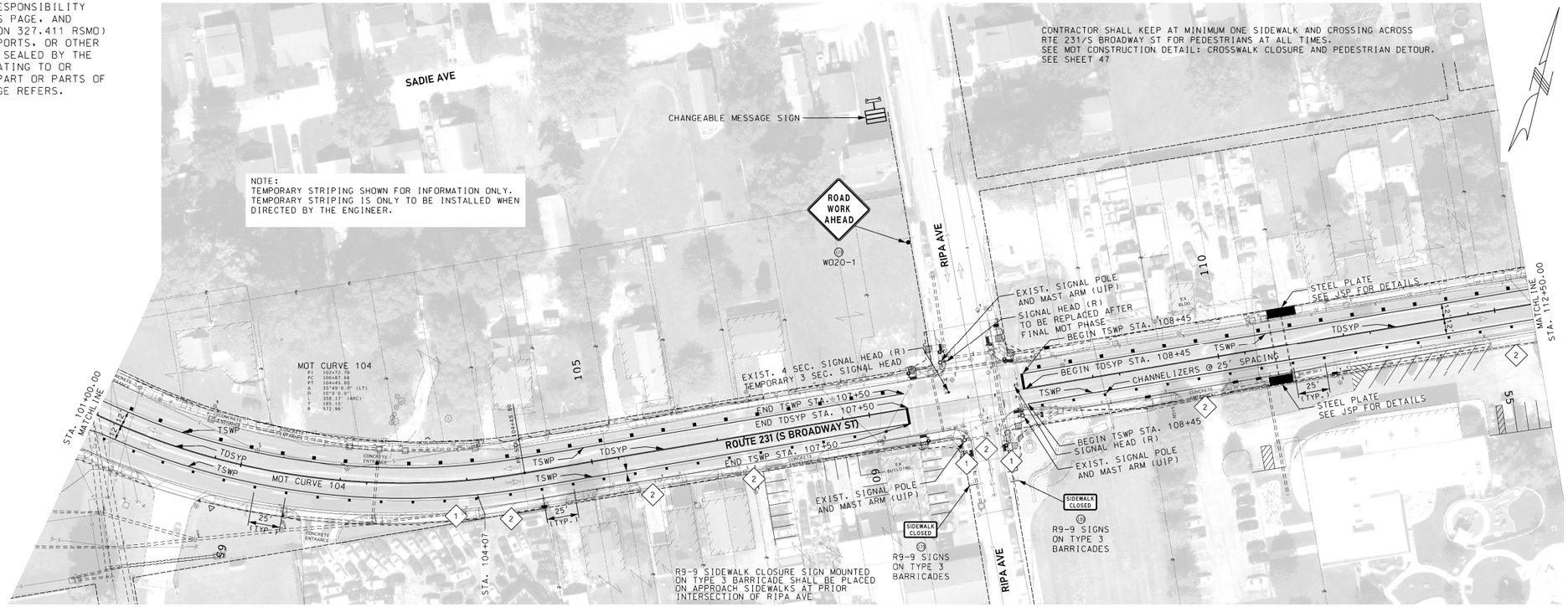
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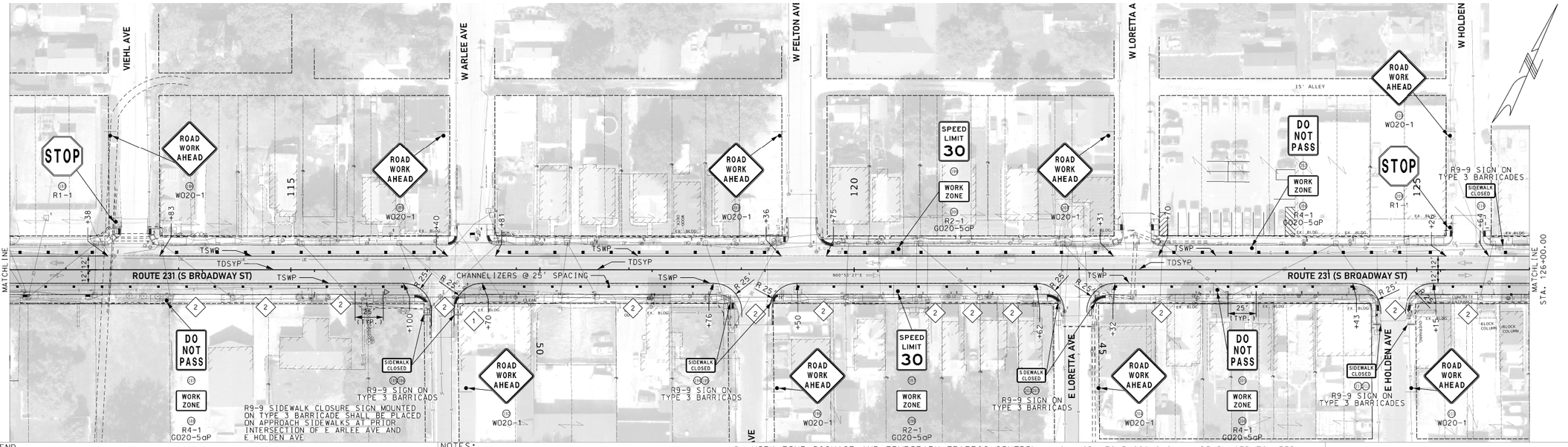
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2. MOT CONSTRUCTION DETAIL SHEET: SIDE ROADS ENTERING WORK ZONES. SEE SHEET 39
3. MOT CONSTRUCTION DETAIL SHEET: LANE CLOSURE FOR ONE LANE – TWO WAY TRAFFIC CONTROL. SEE SHEET 41

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SCALE

0 50 100 150

MAINTENANCE OF TRAFFIC
SEGMENT 3 PHASE 1B
SHEET 15 OF 53

	DATE	DESCRIPTION
LAYOUT	11/2024	
DRAWN	JAM	
REVIEWED	11/2024	

DENNIS J KOSCIELSKI
NUMBER PE-2005000712
STATE OF MISSOURI
PROFESSIONAL ENGINEER

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DATE PREPARED
7/15/2025

ROUTE	STATE
231	MO
DISTRICT	SHEET NO.
SL	220

COUNTY
ST. LOUIS

JOB NO.
J6S3631

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

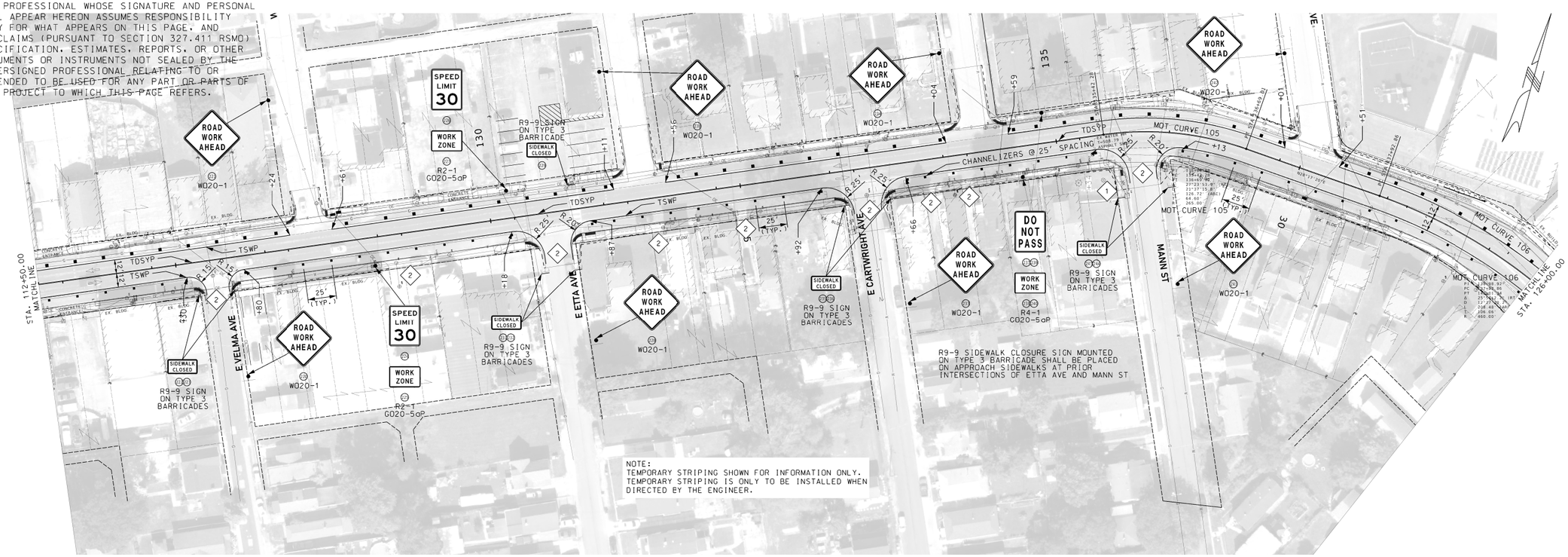
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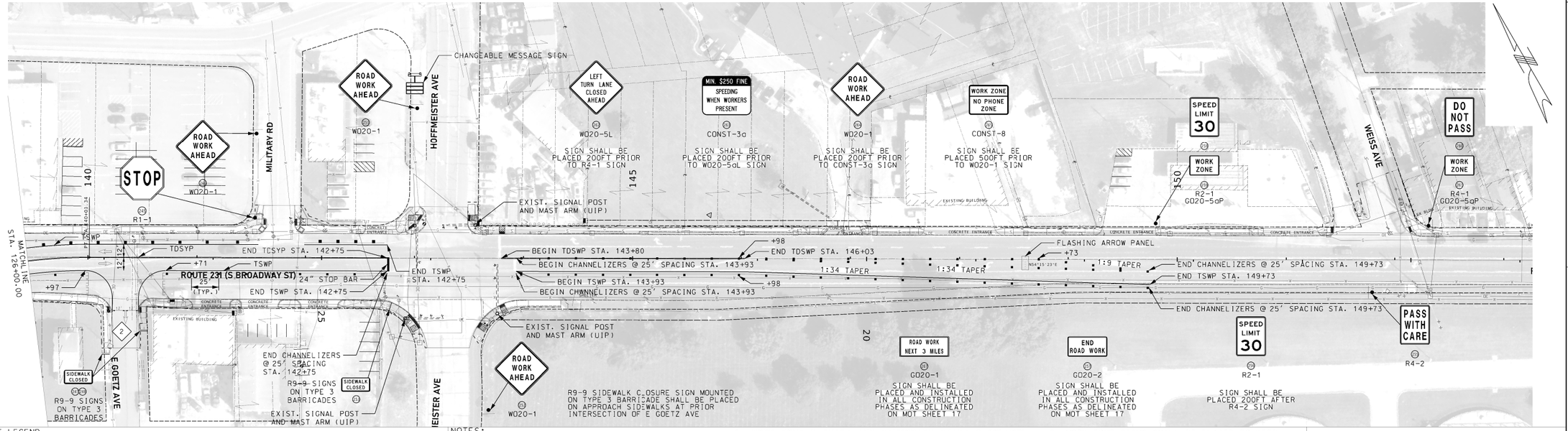
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SCALE
0 50 100 150

MAINTENANCE OF TRAFFIC
SEGMENT 3 PHASE 1B
SHEET 16 OF 53

LAYOUT	DRAWN	REVIEWED
JAM 11/2024	JAM 11/2024	

STATE OF MISSOURI
DENNIS J KOSCIELSKI
NUMBER PE-2005000712
PROFESSIONAL ENGINEER

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DATE PREPARED
7/15/2025

ROUTE	STATE
231	MO
DISTRICT	SHEET NO.
SL	221

COUNTY
ST. LOUIS

JOB NO.
J6S3631

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DATE	DESCRIPTION

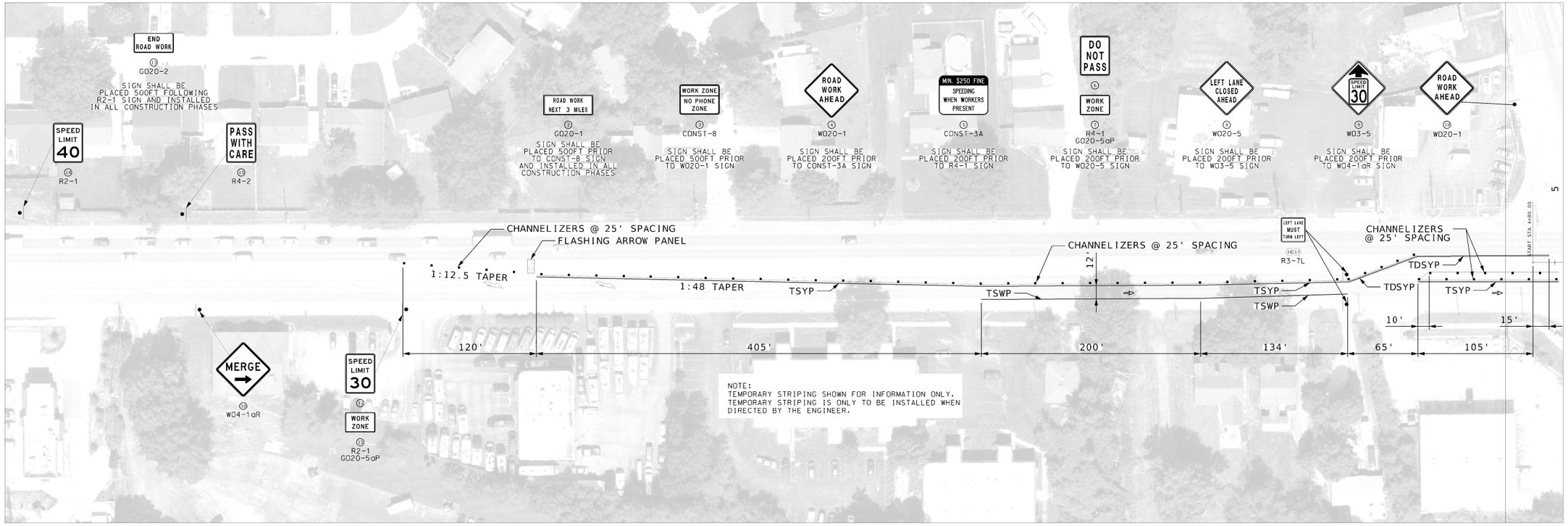
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SCALE
0 50 100 150

MAINTENANCE OF TRAFFIC
SEGMENT 1 PHASE 2
SHEET 17 OF 53

	DATE	DESCRIPTION
LAYOUT	11/2024	
DRAWN	JAM 11/2024	
REVIEWED	JAM	

STATE OF MISSOURI
DENNIS J KOSCIELSKI
NUMBER PE-2005000712
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED
7/15/2025

ROUTE	STATE
231	MO
DISTRICT	SHEET NO.
SL	222

COUNTY
ST. LOUIS

JOB NO.
J6S3631

CONTRACT ID.

PROJECT NO.

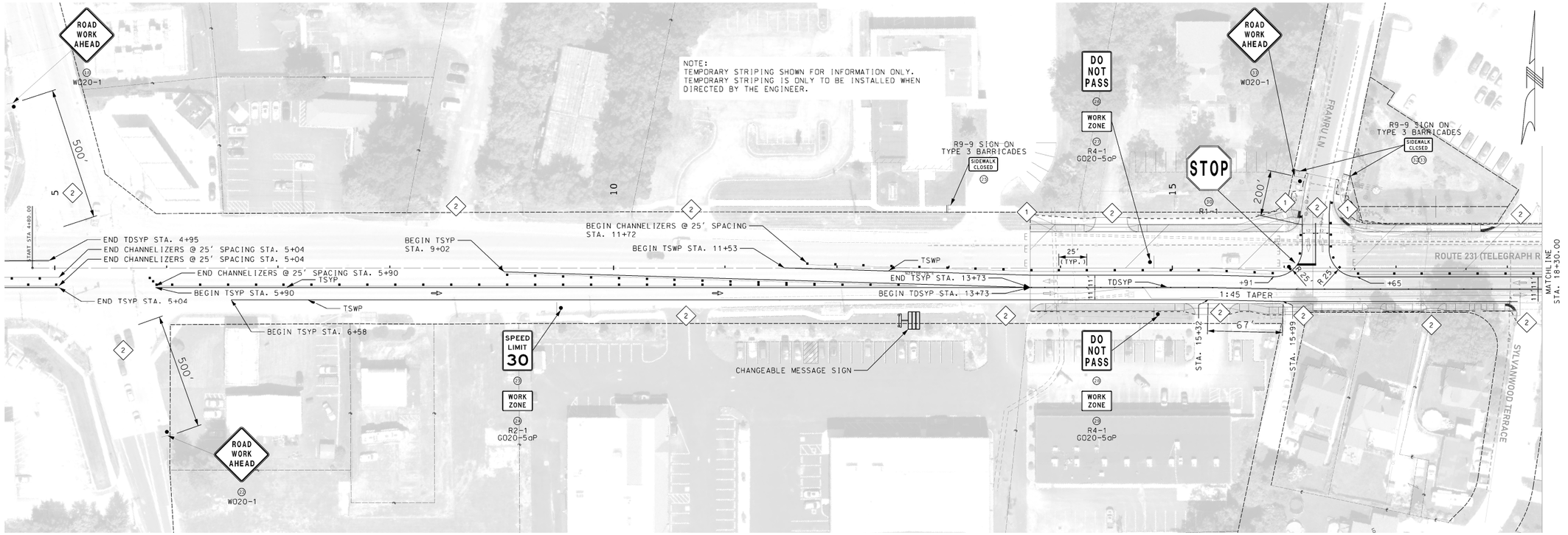
BRIDGE NO.

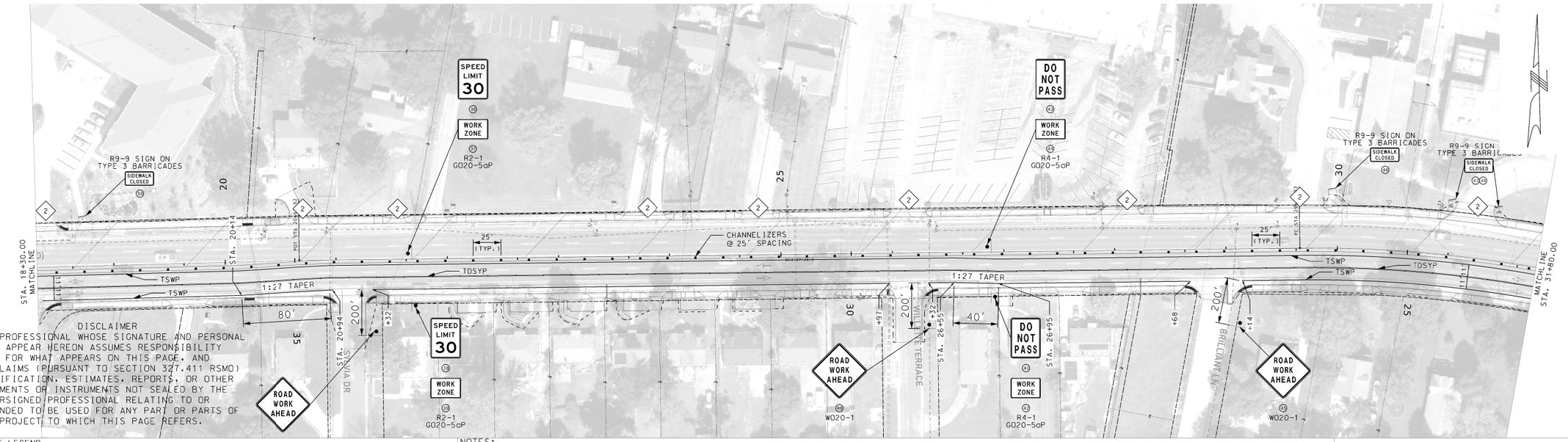
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LAYOUT	JAM	11/2024
DRAWN	JAM	11/2024
REVIEWED		

MOT LEGEND

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- TSWP 4" PAVEMENT MARKING, SOLID WHITE
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SCALE
0 50 100 150

MAINTENANCE OF TRAFFIC
SEGMENT 1 PHASE 2
SHEET 18 OF 53

STATE OF MISSOURI
DENNIS J KOSCIELSKI
NUMBER PE-2005000712
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED
7/15/2025

ROUTE	STATE
231	MO
DISTRICT	SHEET NO.
SL	223

COUNTY
ST. LOUIS

JOB NO.
J6S3631

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION	DATE

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

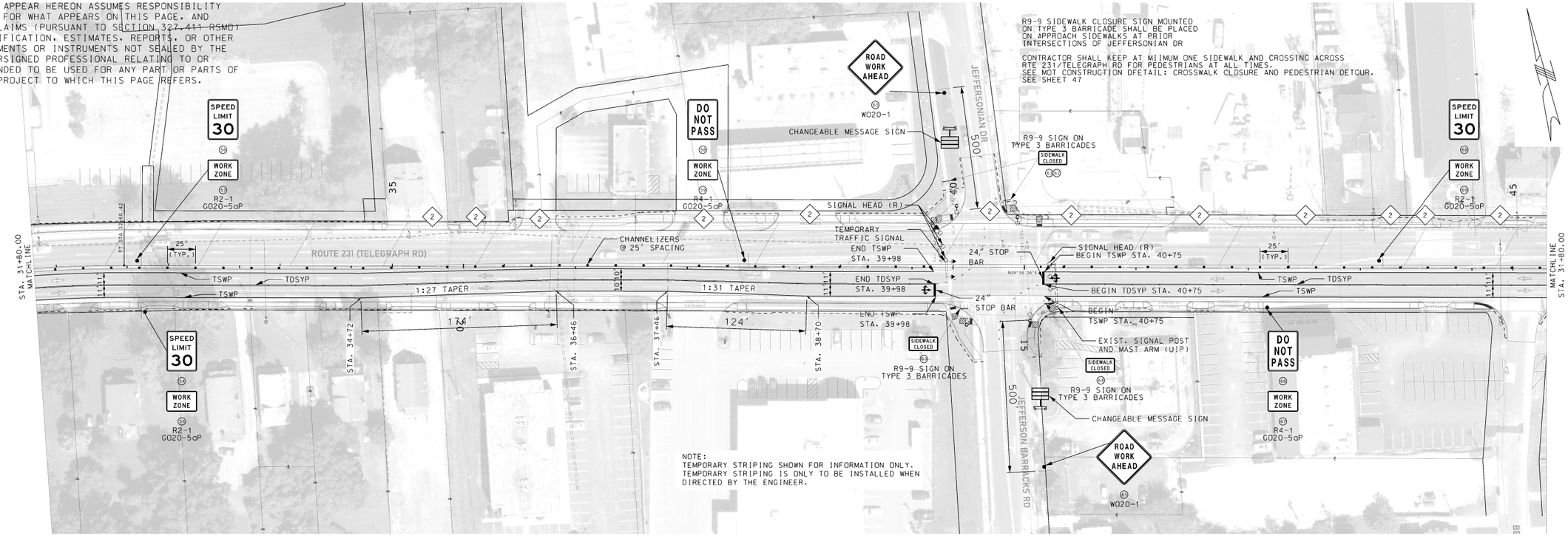
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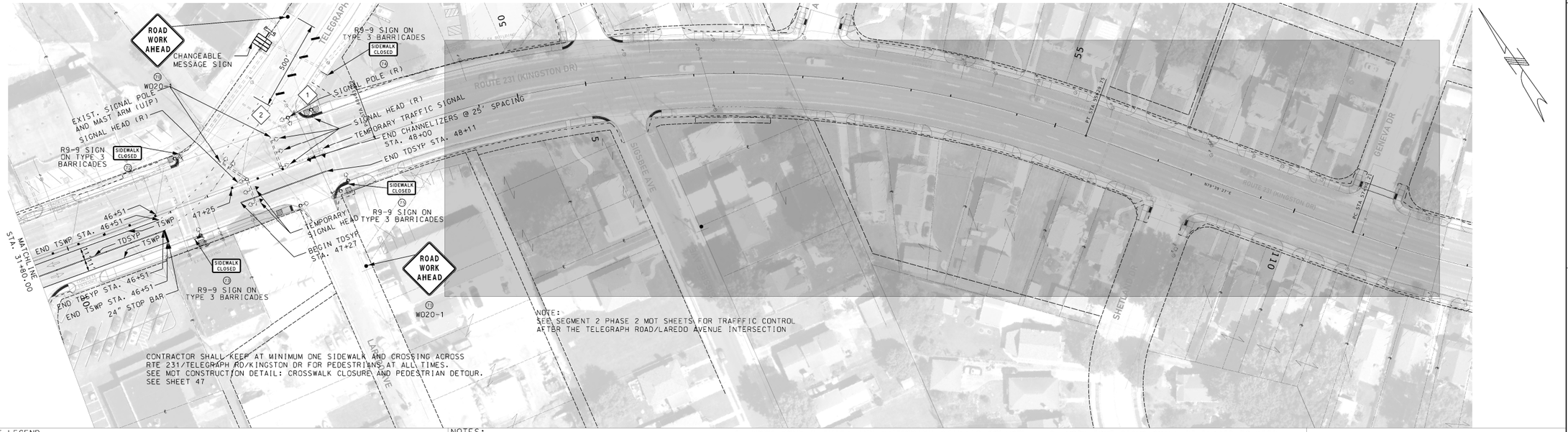
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SCALE
0 50 100 150

MAINTENANCE OF TRAFFIC
SEGMENT 1 PHASE 2
SHEET 19 OF 53

	DESCRIPTION	DATE
LAYOUT	JAM	11/2024
DRAWN	JAM	11/2024
REVIEWED		

STATE OF MISSOURI
DENNIS J KOSCIELSKI
NUMBER PE-2005000712
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED
7/15/2025

ROUTE	STATE
231	MO
DISTRICT	SHEET NO.
SL	224

COUNTY
ST. LOUIS

JOB NO.
J6S3631

CONTRACT ID.

PROJECT NO.

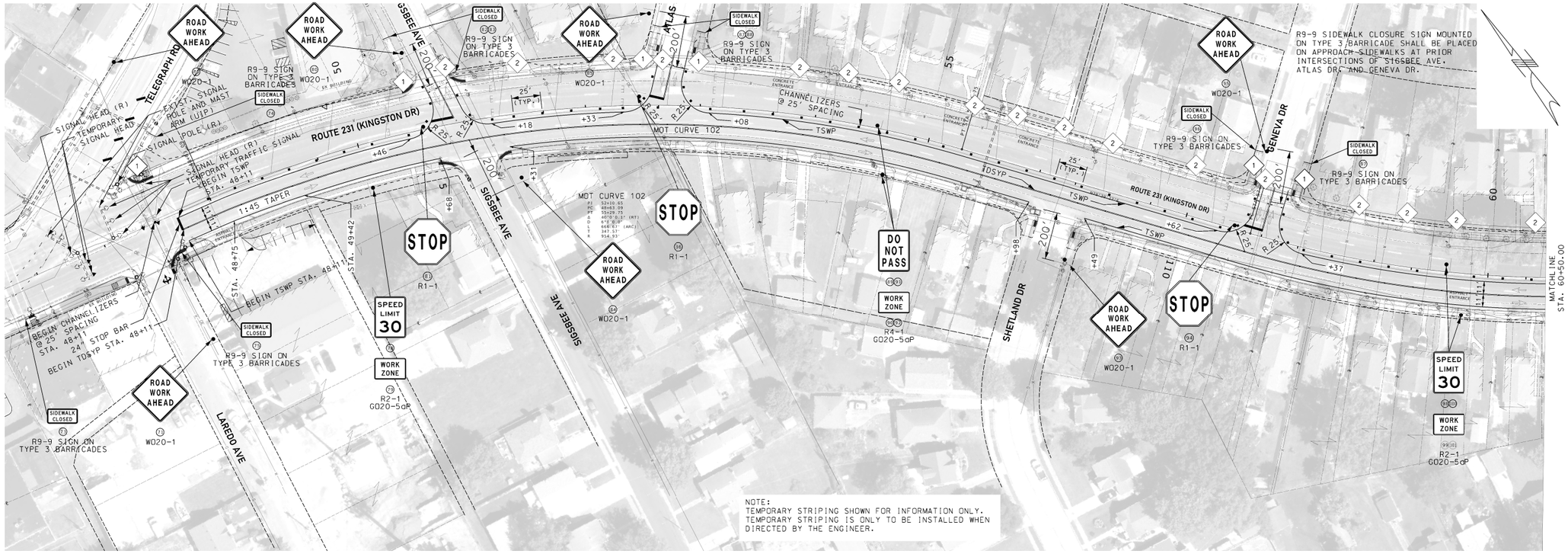
BRIDGE NO.

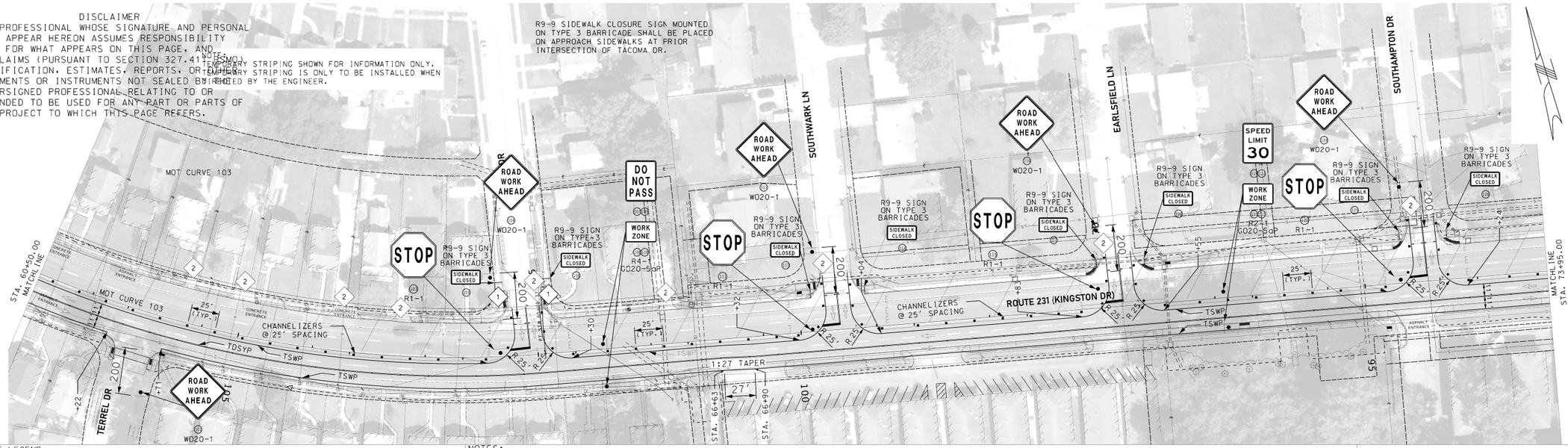
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MOT LEGEND

- CONSTRUCTION AREA
- TSWP 4" PAVEMENT MARKING, SOLID WHITE
- TSYP 4" PAVEMENT MARKING, SOLID YELLOW
- TDSYP 4" PAVEMENT MARKING, DOUBLE SOLID YELLOW
- SIGN (SINGLE SIDED)
- MOVABLE BARRICADE
- CHANNELIZERS
- 24" WHITE STOP BAR
- FLOW ARROW

1. MOT CONSTRUCTION DETAIL SHEET: SIDEWALK CLOSURE. SEE SHEET 40
2. MOT CONSTRUCTION DETAIL SHEET: SIDE ROADS ENTERING WORK ZONES. SEE SHEET 39
3. MOT CONSTRUCTION DETAIL SHEET: LANE CLOSURE FOR ONE LANE - TWO WAY TRAFFIC CONTROL. SEE SHEET 41

NOTES:

1. CONTRACTOR IS RESPONSIBLE FOR ENSURING THAT ALL SIGNS AND INSTALLATIONS COMPLY WITH THE FULL EXTENT OF THE LATEST EDITION OF THE M.U.T.C.D.
2. CONTRACTOR SHALL FIELD ADJUST INSTALLATIONS. AS APPROVED BY THE ENGINEER.
3. REVIEW EPG 616.6.63 CHANNELIZING DEVICES FOR DIFFERENT TYPES AND GUIDELINES FOR THE DEVICES.
4. CONTRACTOR SHALL MAINTAIN ACCESS TO ALL DRIVEWAYS AT ALL TIMES.
5. WORK ZONE SIGNAGE AND TEMPORARY TRAFFIC CONTROL DEVICES NOT SHOWN WILL FOLLOW SECTION 616 OF THE MODOT STANDARD SPECIFICATIONS AND THE TYPICAL APPLICATIONS SHOWN IN PLANS.
6. EXISTING SIGNS WITHIN THE TEMPORARY TRAFFIC CONTROL ZONE THAT CONFLICT WITH TEMPORARY SIGNAGE SHALL BE COVERED.
7. EXISTING PAVEMENT MARKING IN CONFLICT WITH TEMPORARY PAVEMENT MARKINGS SHALL BE REMOVED.
8. EXISTING STOP SIGNS IN CONFLICT WITH TEMPORARY STOP SIGNS SHALL BE COVERED.
9. WORK ZONE SIGNS SHALL BE PLACED TO KEEP PEDESTRIAN ROUTES OPEN. MINIMUM 48" CLEAR SHALL BE PROVIDED ON ALL PEDESTRIAN ACCESS ROUTES.
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11. ALL BUS STOP LOCATIONS AND SIGN FACES SHALL REMAIN U/P OR PROVIDED ALTERNATIVE AS APPROVED BY ENGINEER AND METROBUS.
12. AT LEAST ONE SIDEWALK SHALL BE OPEN AT ALL TIMES WITH ACCESSIBLE CROSSING LOCATIONS.

SCALE

0 50 100 150

MAINTENANCE OF TRAFFIC
SEGMENT 2 PHASE 2
SHEET 20 OF 53

	DATE	DESCRIPTION
LAYOUT	11/2024	
DRAWN	JAM	
REVIEWED	11/2024	

STATE OF MISSOURI
DENNIS J KOSCIELSKI
NUMBER PE-2005000712
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED
7/15/2025

ROUTE	STATE
231	MO
DISTRICT	SHEET NO.
SL	225

COUNTY
ST. LOUIS

JOB NO.
J6S3631

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

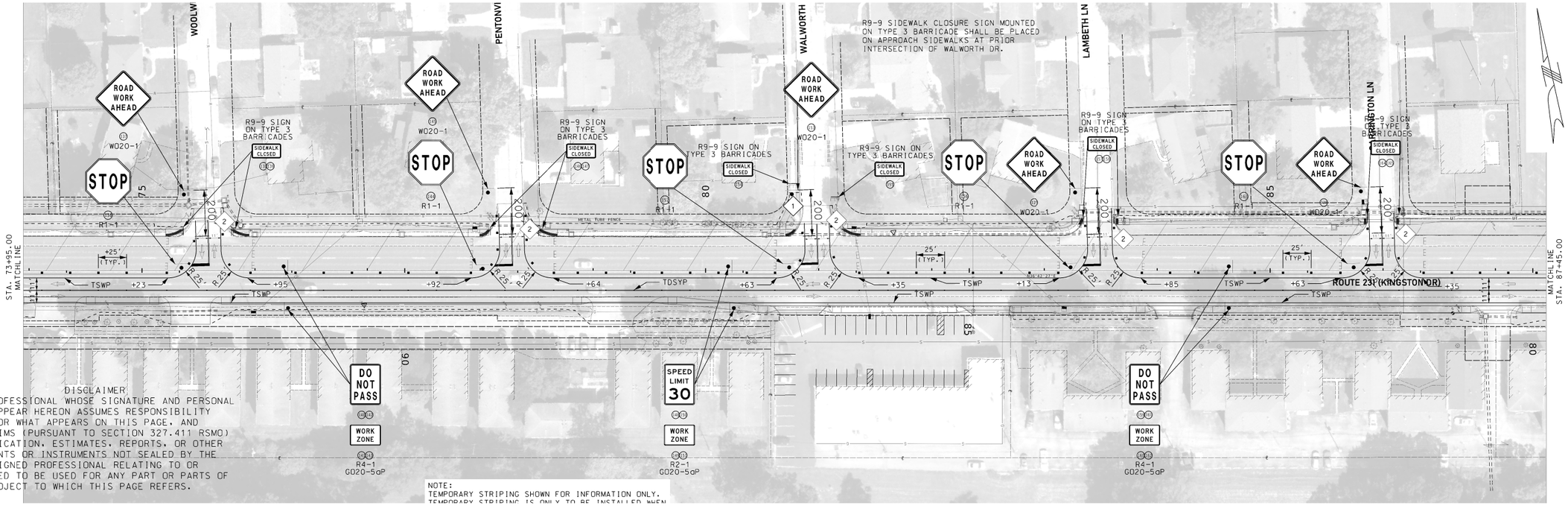
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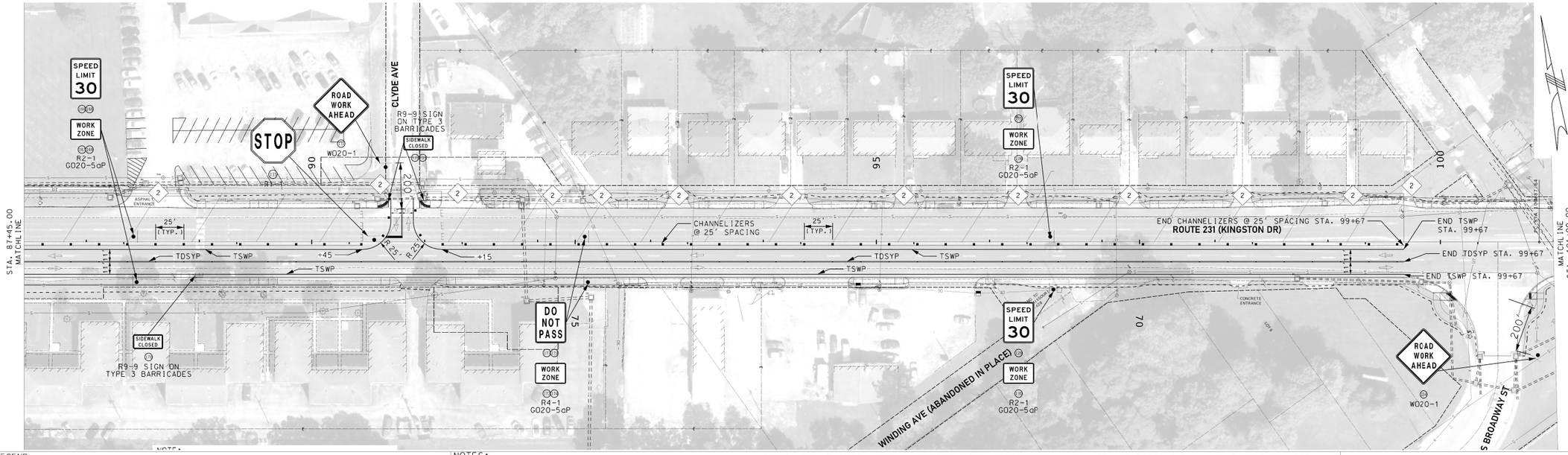
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NOTE:
TEMPORARY STRIPING SHOWN FOR INFORMATION ONLY.
TEMPORARY STRIPING IS ONLY TO BE INSTALLED WHEN



MOT LEGEND

- CONSTRUCTION AREA
- TSWP 4" PAVEMENT MARKING, SOLID WHITE
- TSYP 4" PAVEMENT MARKING, SOLID YELLOW
- TDSYP 4" PAVEMENT MARKING, DOUBLE SOLID YELLOW
- SIGN (SINGLE SIDED)
- MOVABLE BARRICADE
- CHANNELIZERS
- 24" WHITE STOP BAR
- FLOW ARROW

1. MOT CONSTRUCTION DETAIL SHEET: SIDEWALK CLOSURE. SEE SHEET 40
2. MOT CONSTRUCTION DETAIL SHEET: SIDE ROADS ENTERING WORK ZONES. SEE SHEET 39
3. MOT CONSTRUCTION DETAIL SHEET: LANE CLOSURE FOR ONE LANE - TWO WAY TRAFFIC CONTROL. SEE SHEET 41

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SCALE
0 50 100 150

MAINTENANCE OF TRAFFIC
SEGMENT 2 PHASE 2
SHEET 21 OF 53

	DATE	DESCRIPTION
LAYOUT	11/2024	
DRAWN	JAM 11/2024	
REVIEWED	JAM	

STATE OF MISSOURI
DENNIS J KOSCIELSKI
NUMBER PE-2005000712
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED 7/15/2025

ROUTE	STATE
231	MO
DISTRICT	SHEET NO.
SL	226

COUNTY ST. LOUIS
JOB NO. J6S3631
CONTRACT ID.
PROJECT NO.
BRIDGE NO.

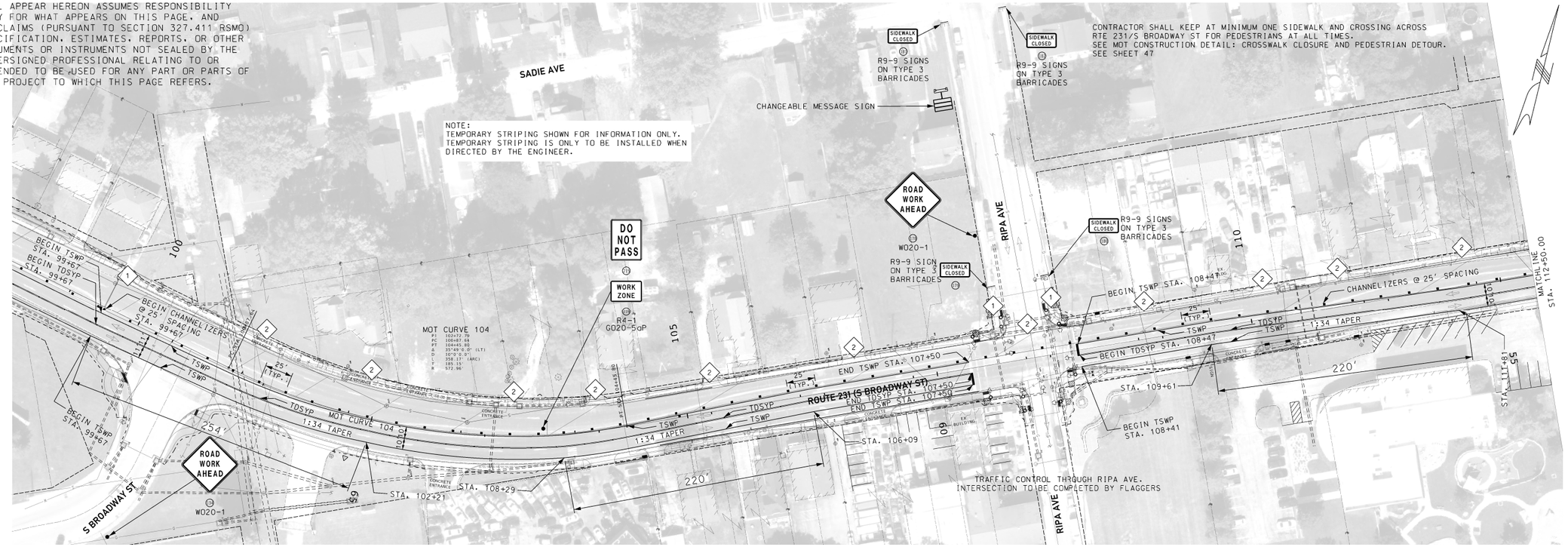
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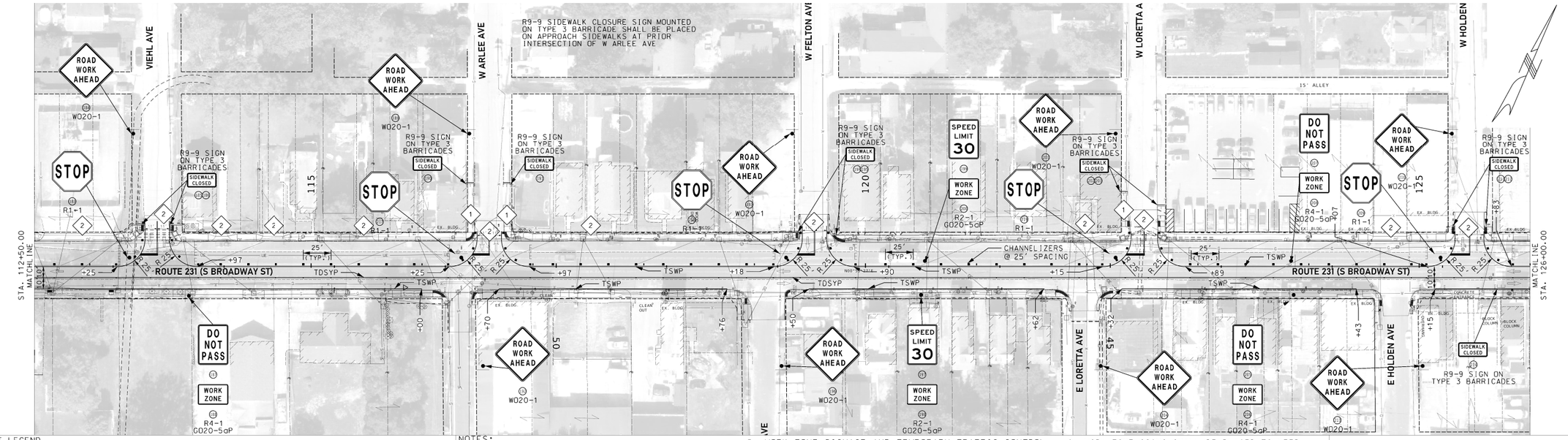
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- TDSYP 4" PAVEMENT MARKING, DOUBLE SOLID YELLOW
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- MOVABLE BARRICADE
- CHANNELIZERS
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- FLOW ARROW

1. MOT CONSTRUCTION DETAIL SHEET: SIDEWALK CLOSURE. SEE SHEET 40
2. MOT CONSTRUCTION DETAIL SHEET: SIDE ROADS ENTERING WORK ZONES. SEE SHEET 39
3. MOT CONSTRUCTION DETAIL SHEET: LANE CLOSURE FOR ONE LANE – TWO WAY TRAFFIC CONTROL. SEE SHEET 41

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SCALE
0 50 100 150

MAINTENANCE OF TRAFFIC
SEGMENT 3 PHASE 2
SHEET 22 OF 53

	DESCRIPTION	DATE
LAYOUT		
DRAWN	JAM	11/2024
REVIEWED	JAM	11/2024

DENNIS J KOSCIELSKI
NUMBER PE-2005000712
STATE OF MISSOURI
PROFESSIONAL ENGINEER

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DATE PREPARED 7/15/2025

ROUTE	STATE
231	MO
DISTRICT	SHEET NO.
SL	227

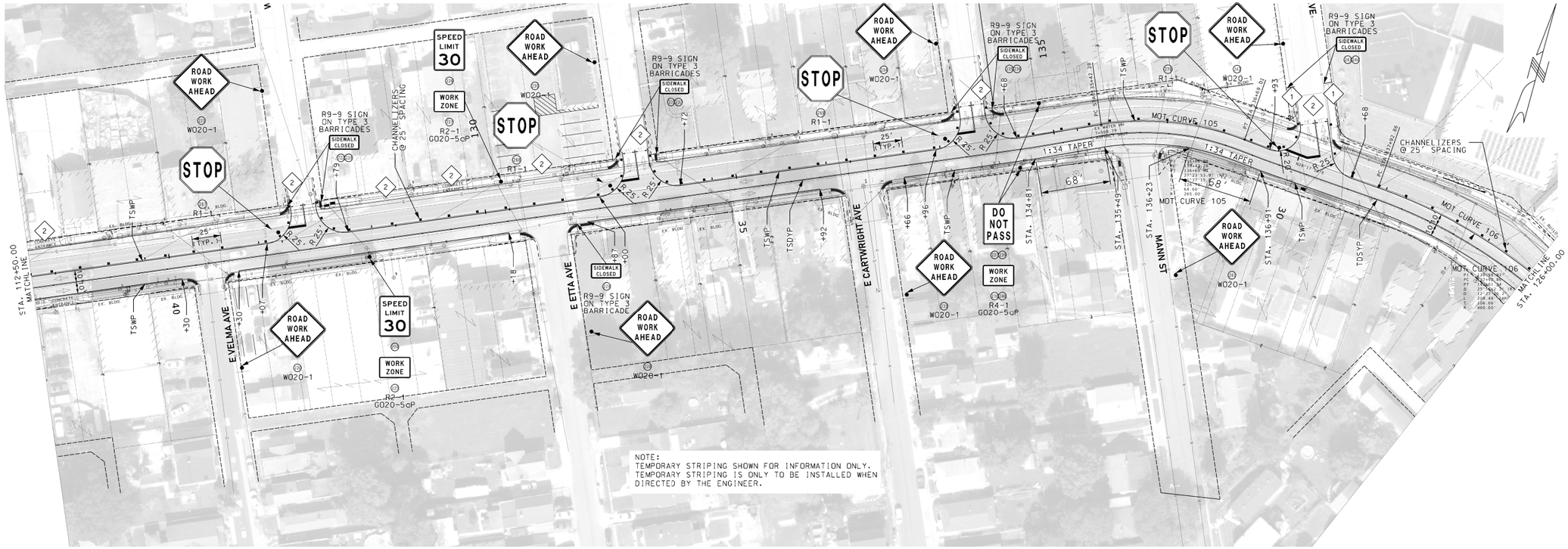
COUNTY ST. LOUIS
JOB NO. J6S3631
CONTRACT ID.
PROJECT NO.
BRIDGE NO.

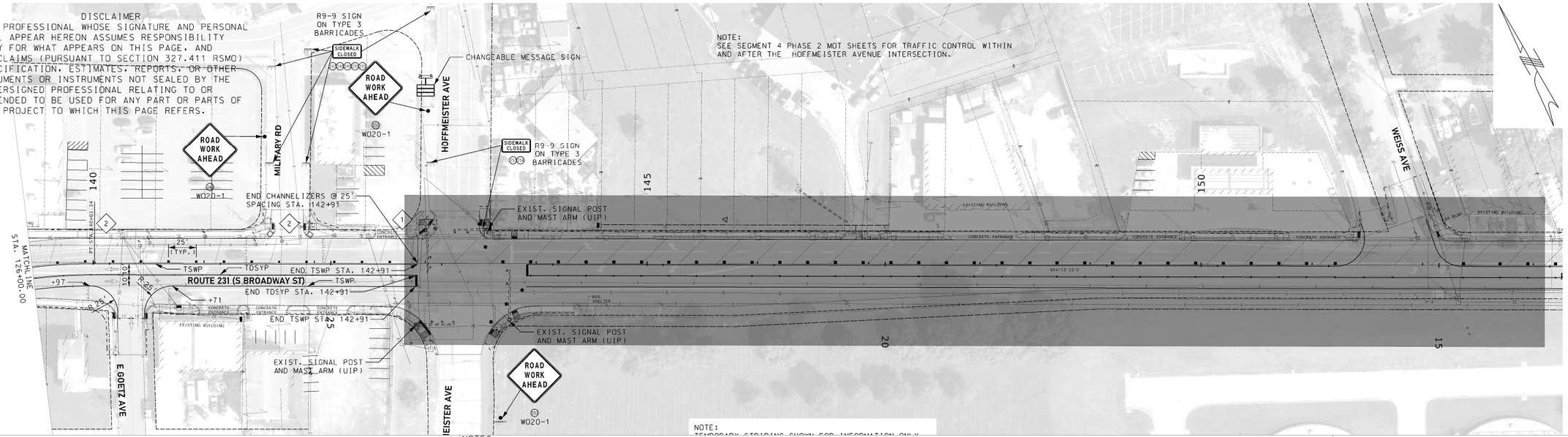
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MOT LEGEND

- CONSTRUCTION AREA
- TSWP 4" PAVEMENT MARKING. SOLID WHITE
- TSYP 4" PAVEMENT MARKING. SOLID YELLOW
- TDSYP 4" PAVEMENT MARKING. DOUBLE SOLID YELLOW
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- MOVABLE BARRICADE
- CHANNELIZERS
- 24" WHITE STOP BAR
- FLOW ARROW

1. MOT CONSTRUCTION DETAIL SHEET: SIDEWALK CLOSURE. SEE SHEET 40
2. MOT CONSTRUCTION DETAIL SHEET: SIDE ROADS ENTERING WORK ZONES. SEE SHEET 39
3. MOT CONSTRUCTION DETAIL SHEET: LANE CLOSURE FOR ONE LANE - TWO WAY TRAFFIC CONTROL. SEE SHEET 41

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SCALE

0 50 100 150

MAINTENANCE OF TRAFFIC SEGMENT 3 PHASE 2 SHEET 23 OF 53

	DATE	DESCRIPTION
LAYOUT	11/2024	
DRAWN	JAM 11/2024	
REVIEWED	JAM	

DENNIS J KOSCIELSKI NUMBER PE-2005000712 STATE OF MISSOURI PROFESSIONAL ENGINEER

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DATE PREPARED 7/15/2025

ROUTE	STATE
231	MO
DISTRICT	SHEET NO.
SL	228

COUNTY ST. LOUIS

JOB NO. J6S3631

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

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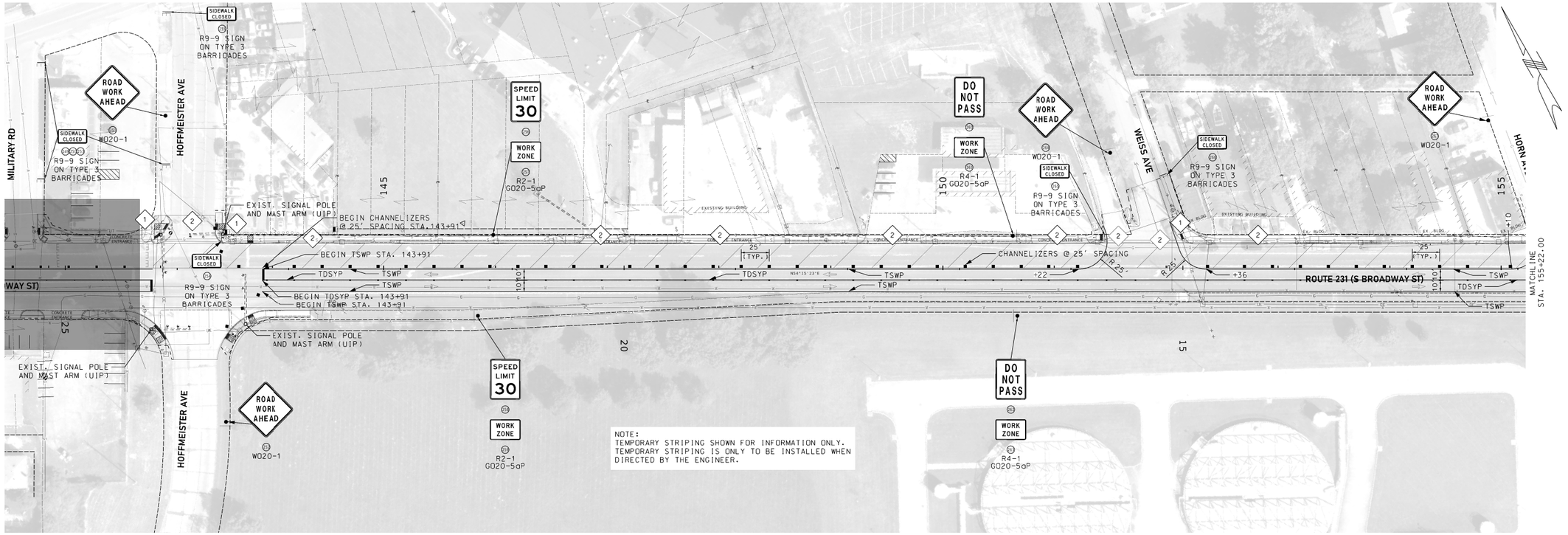
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MOT LEGEND

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- 1 MOT CONSTRUCTION DETAIL SHEET: SIDEWALK CLOSURE. SEE SHEET 40
- 2 MOT CONSTRUCTION DETAIL SHEET: SIDE ROADS ENTERING WORK ZONES. SEE SHEET 39
- 3 MOT CONSTRUCTION DETAIL SHEET: LANE CLOSURE FOR ONE LANE – TWO WAY TRAFFIC CONTROL. SEE SHEET 41

NOTES:

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SCALE
0 50 100 150

MAINTENANCE OF TRAFFIC
SEGMENT 4 PHASE 2
SHEET 24 OF 53

	DESCRIPTION	DATE
LAYOUT		11/2024
DRAWN		11/2024
REVIEWED		

STATE OF MISSOURI
DENNIS J KOSCIELSKI
NUMBER PE-2005000712
PROFESSIONAL ENGINEER

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DATE PREPARED
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ROUTE	STATE
231	MO
DISTRICT	SHEET NO.
SL	229

COUNTY
ST. LOUIS

JOB NO.
J6S3631

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

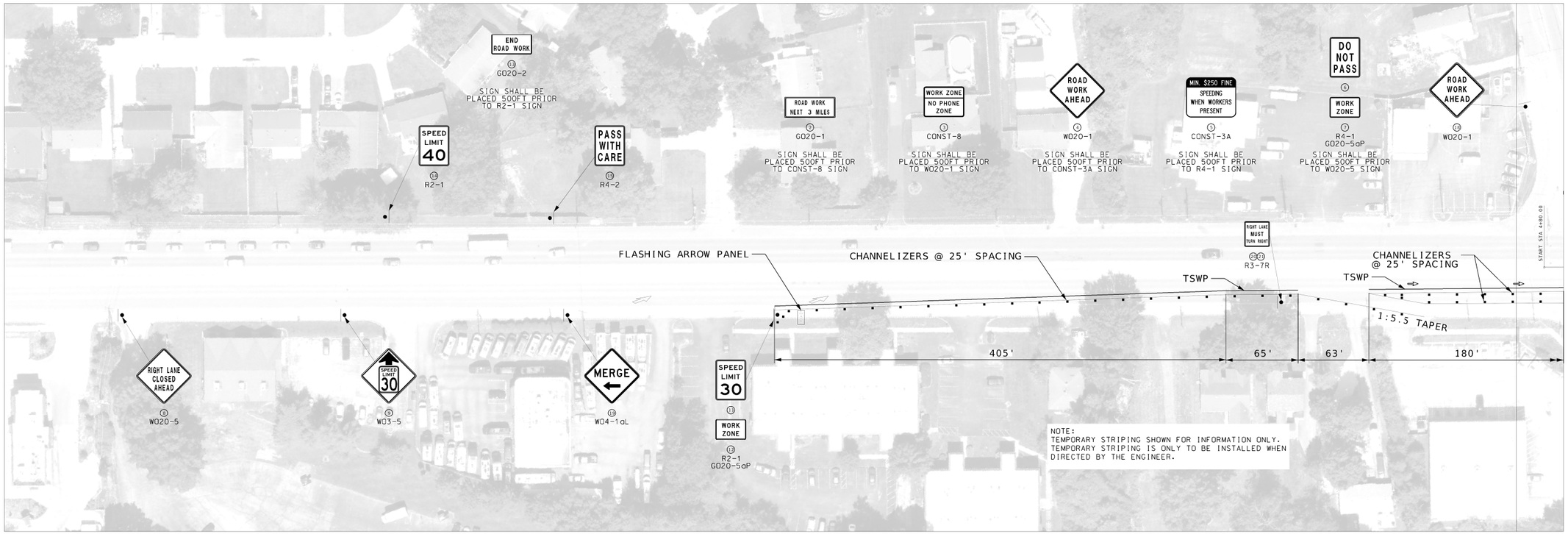
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MOT LEGEND

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- TDSYP 4" PAVEMENT MARKING, DOUBLE SOLID YELLOW
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- CHANNELIZERS
- 24" WHITE STOP BAR
- FLOW ARROW

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2. MOT CONSTRUCTION DETAIL SHEET: SIDE ROADS ENTERING WORK ZONES. SEE SHEET 39
3. MOT CONSTRUCTION DETAIL SHEET: LANE CLOSURE FOR ONE LANE - TWO WAY TRAFFIC CONTROL. SEE SHEET 41

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SCALE
0 50 100 150

MAINTENANCE OF TRAFFIC
SEGMENT 1 PHASE 3
SHEET 25 OF 53

LAYOUT 11/2024
DRAWN JAM 11/2024
REVIEWED JAM

STATE OF MISSOURI
DENNIS J KOSCIELSKI
NUMBER PE-2005000712
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED
7/15/2025

ROUTE	STATE
231	MO
DISTRICT	SHEET NO.
SL	230

COUNTY
ST. LOUIS

JOB NO.
J6S3631

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

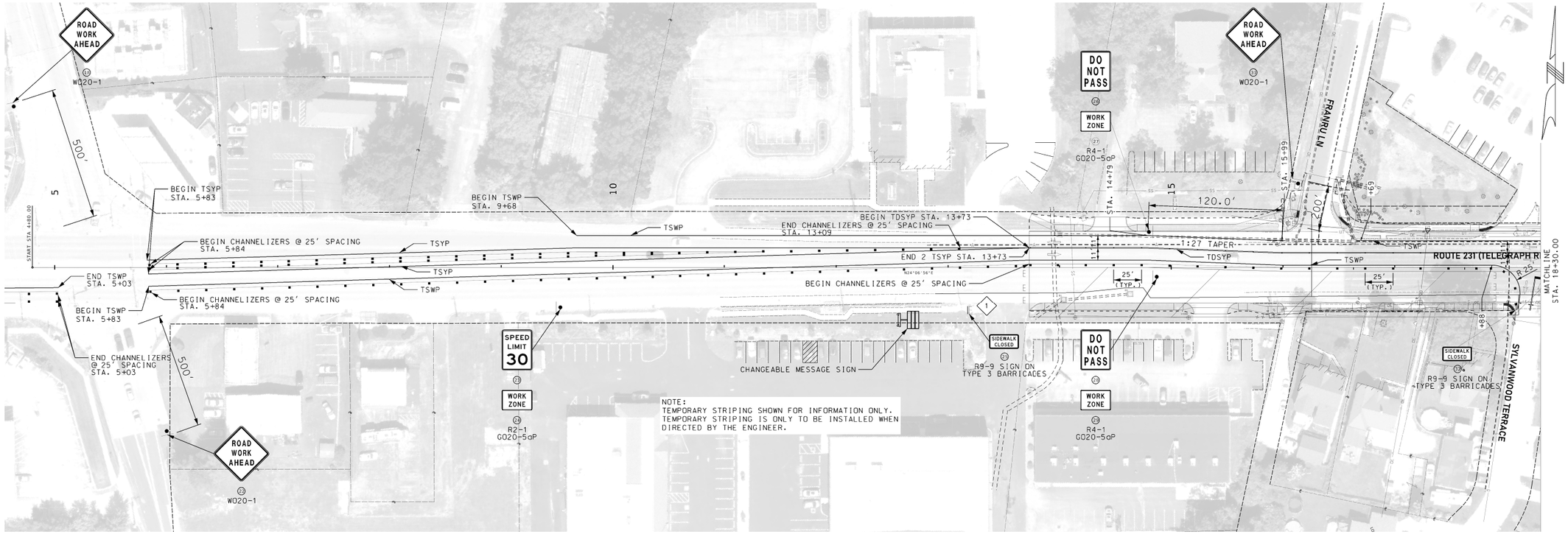
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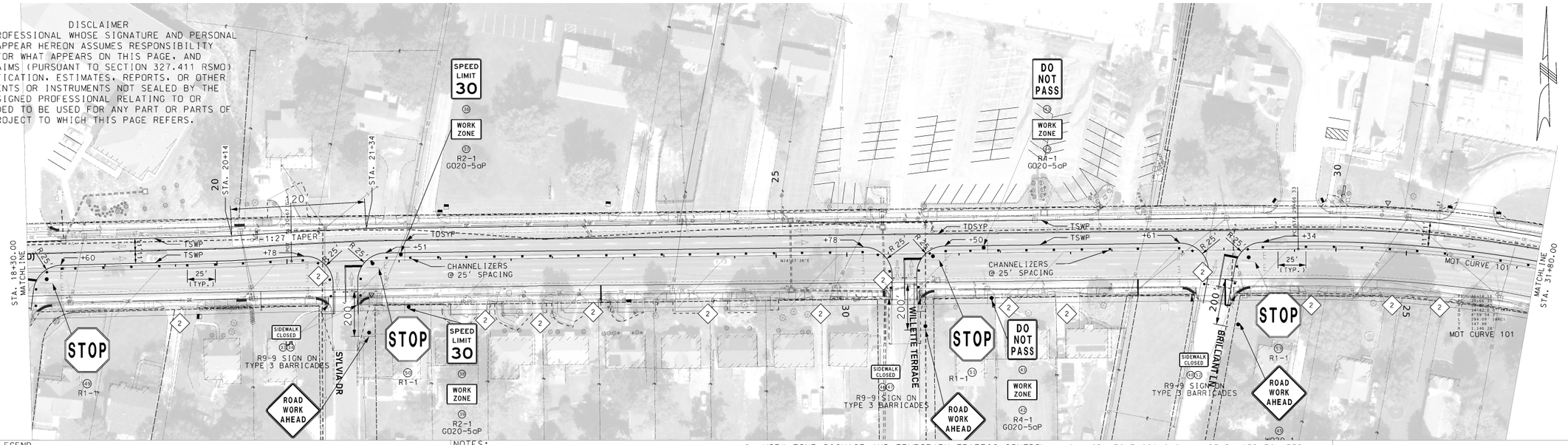
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105 WEST CAPITOL
JEFFERSON CITY, MO 65102
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MOT LEGEND

- CONSTRUCTION AREA
- TSWP 4" PAVEMENT MARKING, SOLID WHITE
- TSYP 4" PAVEMENT MARKING, SOLID YELLOW
- TDSYP 4" PAVEMENT MARKING, DOUBLE SOLID YELLOW
- SIGN (SINGLE SIDED)
- MOVABLE BARRICADE
- CHANNELIZERS
- 24" WHITE STOP BAR
- FLOW ARROW

1. MOT CONSTRUCTION DETAIL SHEET: SIDEWALK CLOSURE. SEE SHEET 40
2. MOT CONSTRUCTION DETAIL SHEET: SIDE ROADS ENTERING WORK ZONES. SEE SHEET 39
3. MOT CONSTRUCTION DETAIL SHEET: LANE CLOSURE FOR ONE LANE - TWO WAY TRAFFIC CONTROL. SEE SHEET 41

NOTES:
1. CONTRACTOR IS RESPONSIBLE FOR ENSURING THAT ALL SIGNS AND INSTALLATIONS COMPLY WITH THE FULL EXTENT OF THE LATEST EDITION OF THE M.U.T.C.D.
2. CONTRACTOR SHALL FIELD ADJUST INSTALLATIONS. AS APPROVED BY THE ENGINEER.
3. REVIEW EPG 616.6.63 CHANNELIZING DEVICES FOR DIFFERENT TYPES AND GUIDELINES FOR THE DEVICES.
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5. WORK ZONE SIGNAGE AND TEMPORARY TRAFFIC CONTROL DEVICES NOT SHOWN WILL FOLLOW SECTION 616 OF THE MODOT STANDARD SPECIFICATIONS AND THE TYPICAL APPLICATIONS SHOWN IN PLANS.
6. EXISTING SIGNS WITHIN THE TEMPORARY TRAFFIC CONTROL ZONE THAT CONFLICT WITH TEMPORARY SIGNAGE SHALL BE COVERED.
7. EXISTING PAVEMENT MARKING IN CONFLICT WITH TEMPORARY PAVEMENT MARKINGS SHALL BE REMOVED.
8. EXISTING STOP SIGNS IN CONFLICT WITH TEMPORARY STOP SIGNS SHALL BE COVERED.
9. WORK ZONE SIGNS SHALL BE PLACED TO KEEP PEDESTRIAN ROUTES OPEN. MINIMUM 48" CLEAR SHALL BE PROVIDED ON ALL PEDESTRIAN ACCESS ROUTES.
10. COVER PERMANENT SIGNING IN CONFLICT WITH WORK ZONE SIGNING. FOR SIGNING REMOVAL SEE SIGNAGE PLANS.
11. ALL BUS STOP LOCATIONS AND SIGN FACES SHALL REMAIN UIP OR PROVIDED ALTERNATIVE AS APPROVED BY ENGINEER AND METROBUS.
12. AT LEAST ONE SIDEWALK SHALL BE OPEN AT ALL TIMES WITH ACCESSIBLE CROSSING LOCATIONS.

SCALE
0 50 100 150

MAINTENANCE OF TRAFFIC
SEGMENT 1 PHASE 3
SHEET 26 OF 53

	DATE	DESCRIPTION
LAYOUT	11/2024	
DRAWN	JAM 11/2024	
REVIEWED	JAM	

STATE OF MISSOURI
DENNIS J KOSCIELSKI
NUMBER PE-2005000712
PROFESSIONAL ENGINEER

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DATE PREPARED 7/15/2025

ROUTE	STATE
231	MO
DISTRICT	SHEET NO.
SL	231

COUNTY ST. LOUIS
JOB NO. J6S3631
CONTRACT ID.
PROJECT NO.
BRIDGE NO.

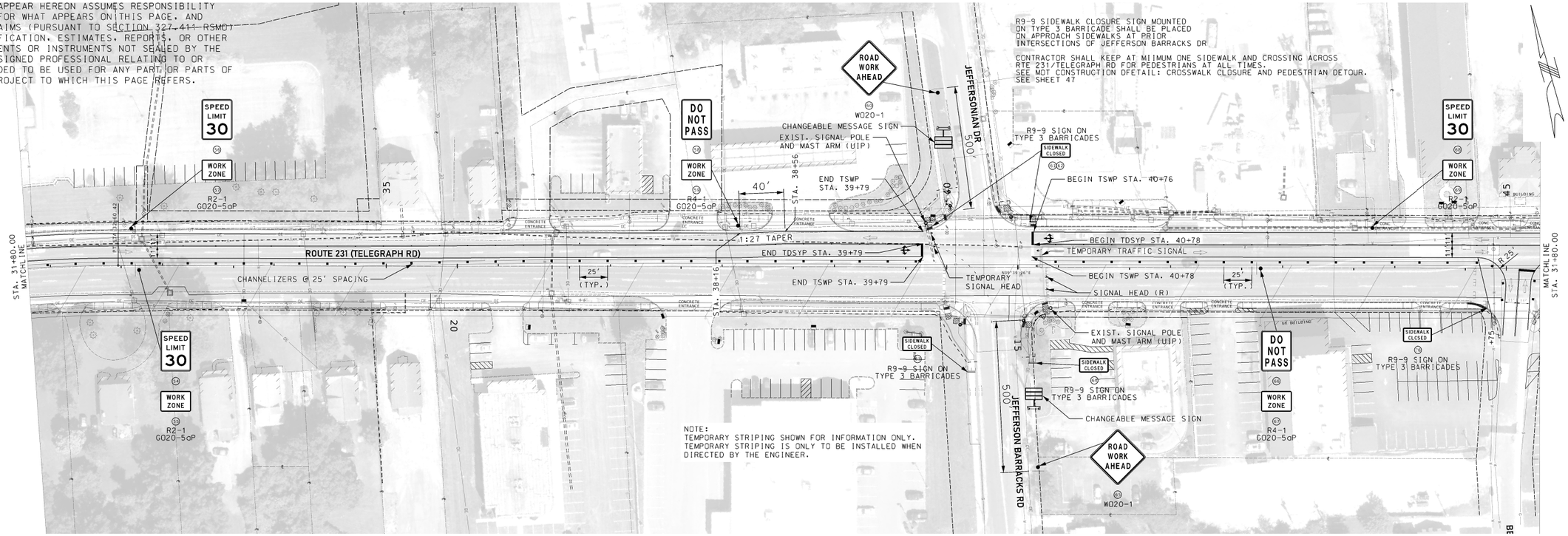
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SCALE
0 50 100 150

MAINTENANCE OF TRAFFIC
SEGMENT 1 PHASE 3
SHEET 27 OF 53

	DESCRIPTION	DATE
LAYOUT		
DRAWN	JAM	11/2024
REVIEWED	JAM	11/2024

STATE OF MISSOURI
DENNIS J KOSCIELSKI
NUMBER PE-2005000712
PROFESSIONAL ENGINEER

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DATE PREPARED
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ROUTE	STATE
231	MO
DISTRICT	SHEET NO.
SL	232

COUNTY
ST. LOUIS

JOB NO.
J6S3631

CONTRACT ID.

PROJECT NO.

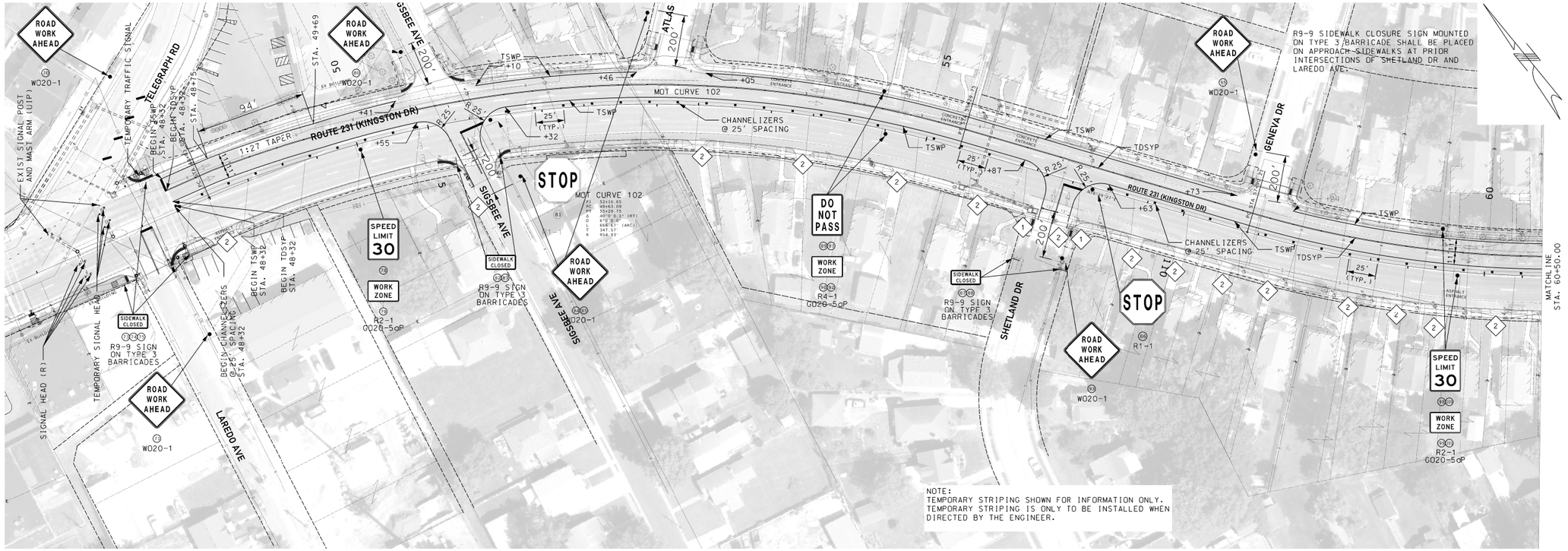
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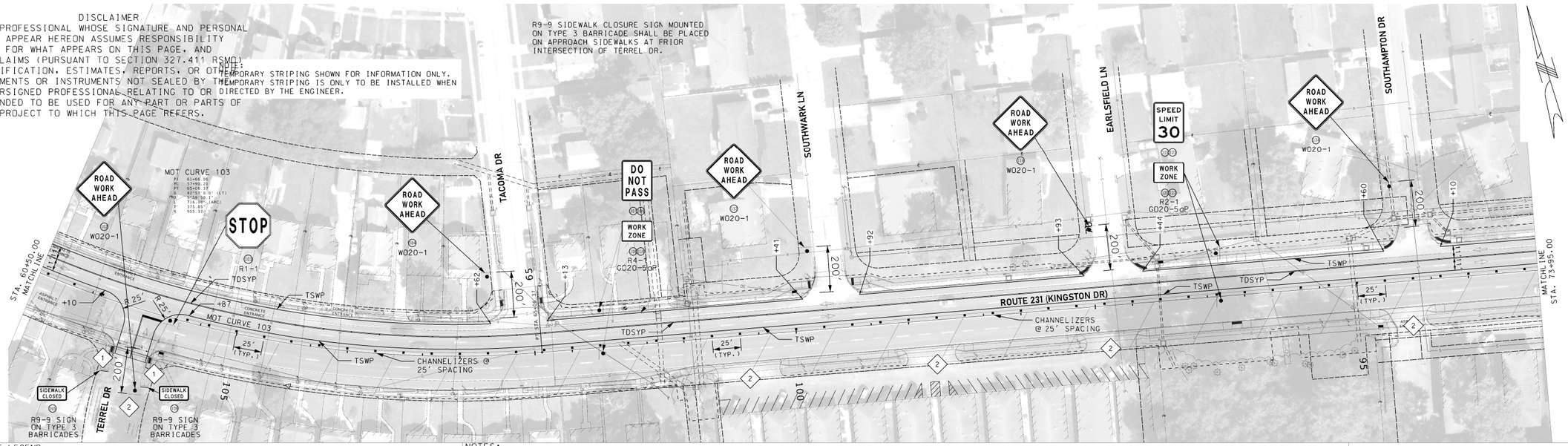
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SCALE
0 50 100 150

MAINTENANCE OF TRAFFIC
SEGMENT 2 PHASE 3
SHEET 28 OF 53

	DATE	DESCRIPTION
LAYOUT	11/2024	
DRAWN	JAM 11/2024	
REVIEWED	JAM	

STATE OF MISSOURI
DENNIS J KOSCIELSKI
NUMBER PE-2005000712
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED
7/15/2025

ROUTE	STATE
231	MO
DISTRICT	SHEET NO.
SL	233

COUNTY
ST. LOUIS

JOB NO.
J6S3631

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

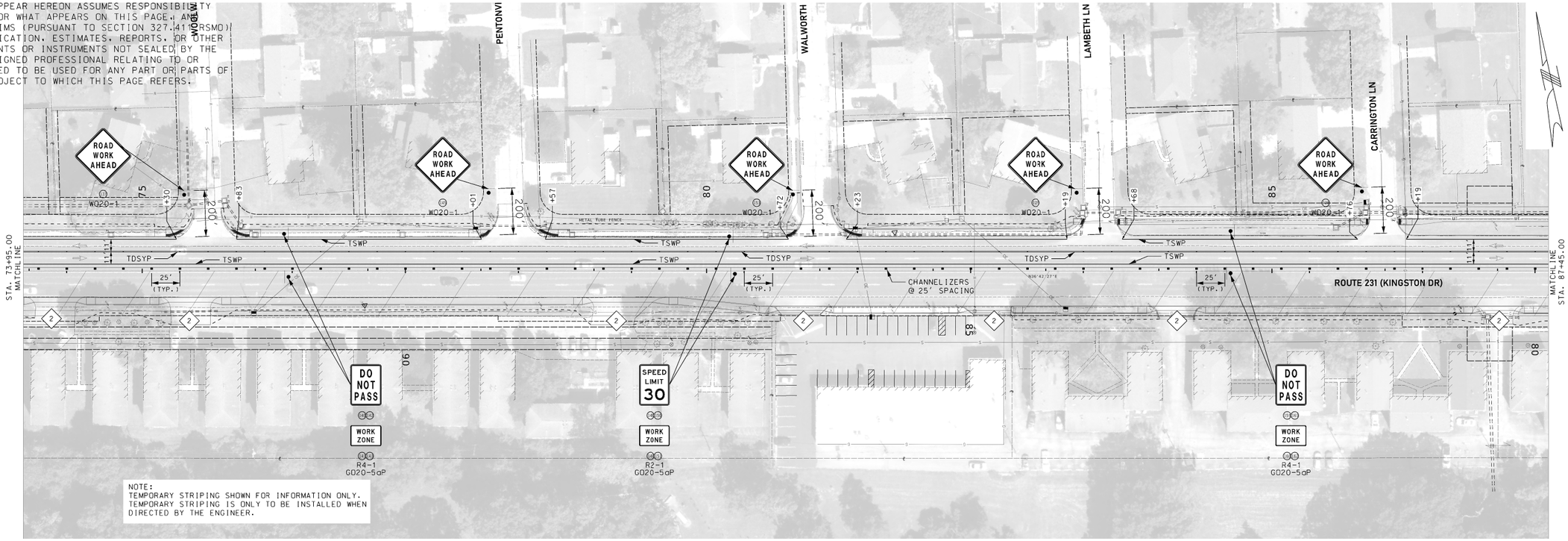
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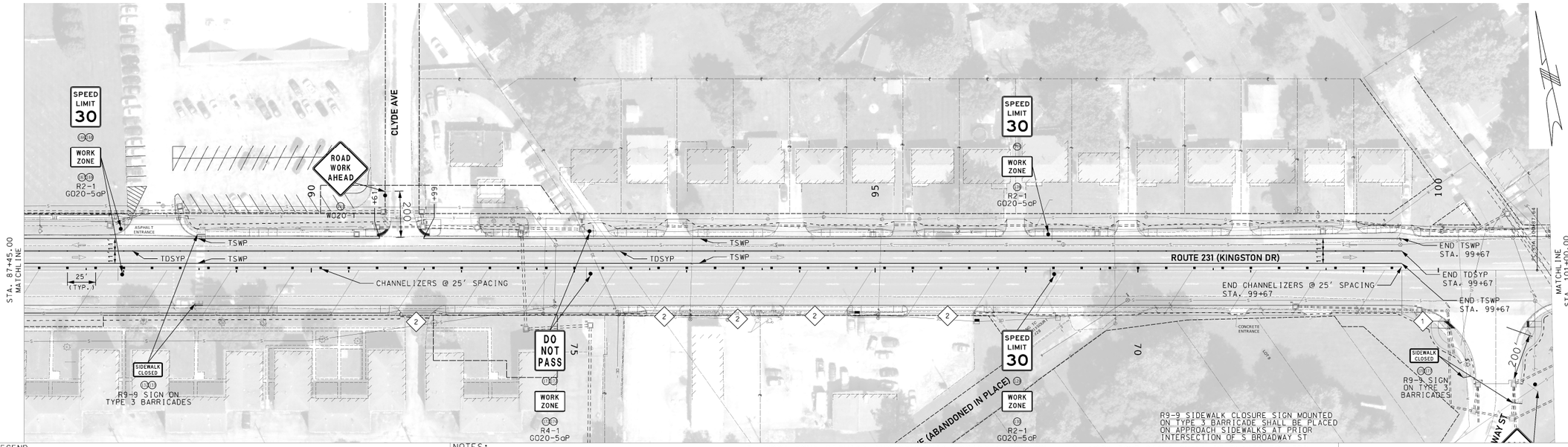
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2. MOT CONSTRUCTION DETAIL SHEET: SIDE ROADS ENTERING WORK ZONES. SEE SHEET 39
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SCALE
0 50 100 150

MAINTENANCE OF TRAFFIC
SEGMENT 2 PHASE 3
SHEET 29 OF 53

	DATE	DESCRIPTION
LAYOUT	11/2024	
DRAWN	JAM	
REVIEWED	11/2024	

STATE OF MISSOURI
DENNIS J KOSCIELSKI
NUMBER PE-2005000712
PROFESSIONAL ENGINEER

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DATE PREPARED
7/15/2025

ROUTE	STATE
231	MO
DISTRICT	SHEET NO.
SL	234

COUNTY
ST. LOUIS

JOB NO.
J6S3631

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

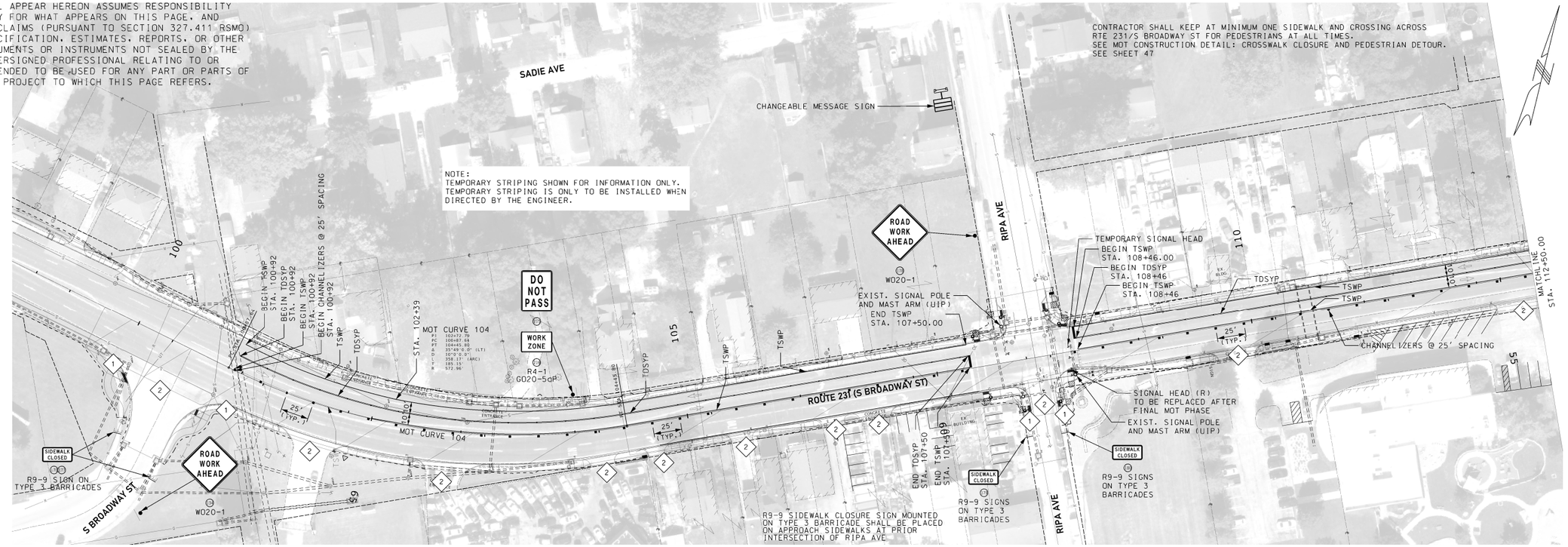
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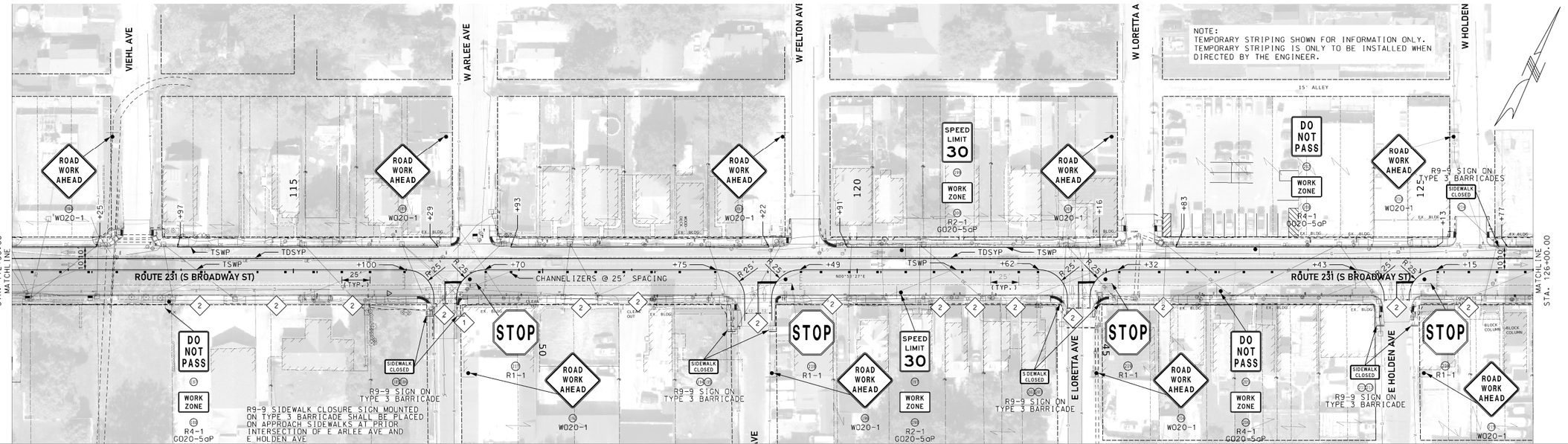
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1. MOT CONSTRUCTION DETAIL SHEET: SIDEWALK CLOSURE. SEE SHEET 40
2. MOT CONSTRUCTION DETAIL SHEET: SIDE ROADS ENTERING WORK ZONES. SEE SHEET 39
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SCALE
0 50 100 150

MAINTENANCE OF TRAFFIC
SEGMENT 3 PHASE 3
SHEET 30 OF 53

	DATE	DESCRIPTION
LAYOUT	11/2024	
DRAWN	JAM 11/2024	
REVIEWED	JAM	

STATE OF MISSOURI
DENNIS J KOSCIELSKI
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231	MO
DISTRICT	SHEET NO.
SL	235

COUNTY: ST. LOUIS
JOB NO.: J6S3631
CONTRACT ID.:
PROJECT NO.:
BRIDGE NO.:

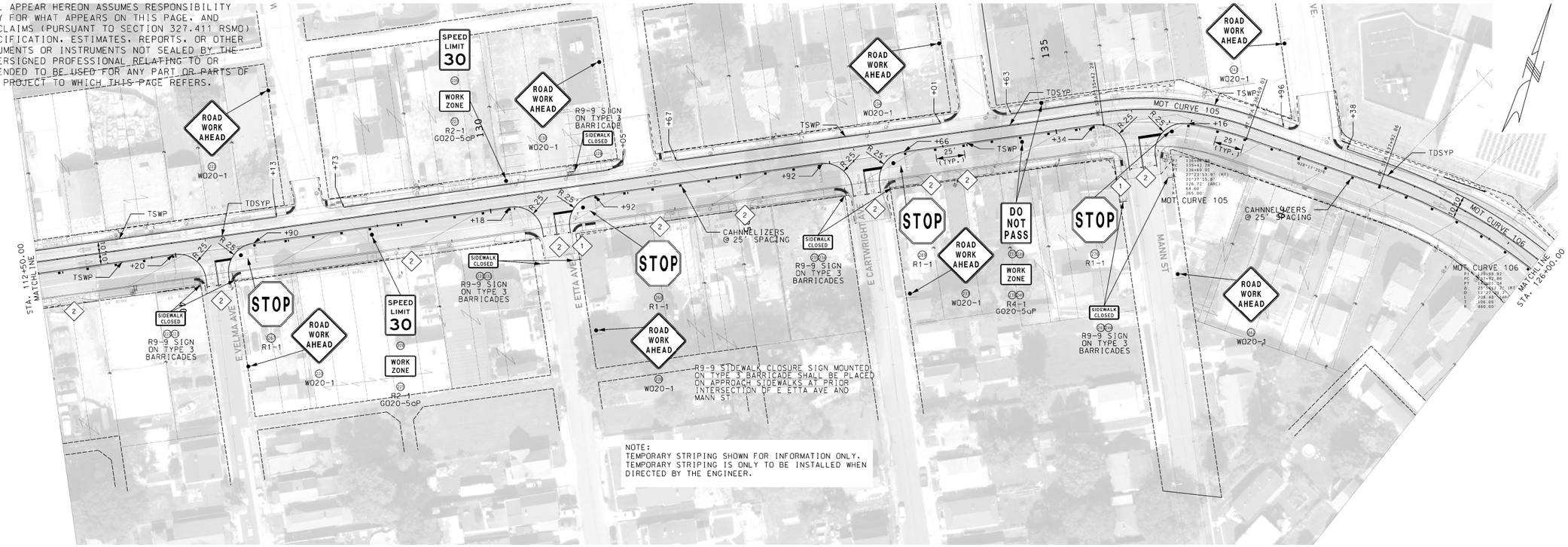
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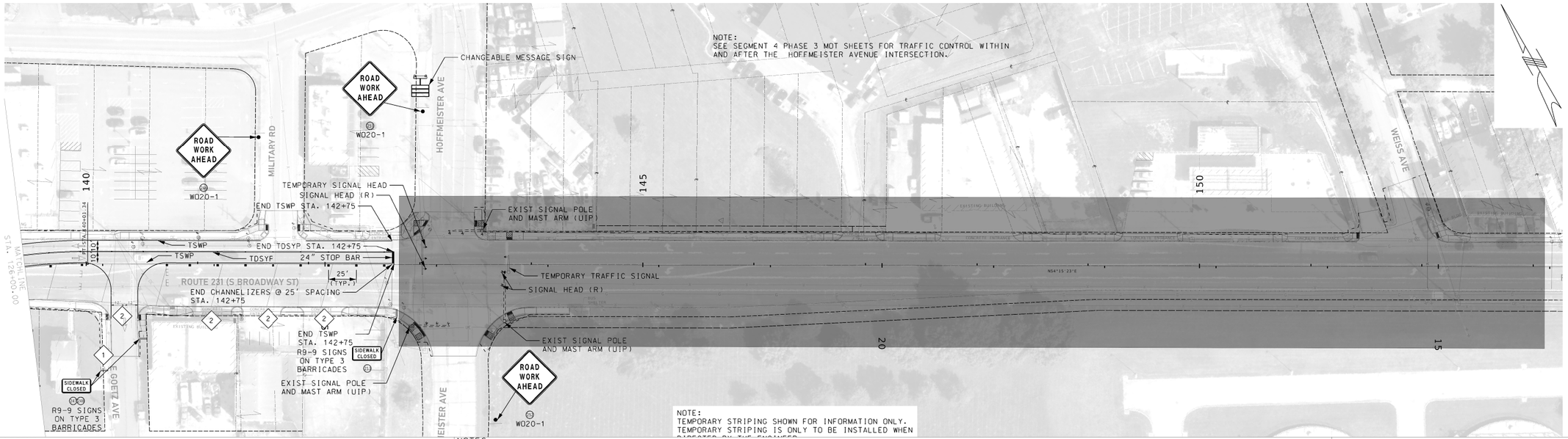
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11. ALL BUS STOP LOCATIONS AND SIGN FACES SHALL REMAIN UIP OR PROVIDED ALTERNATIVE AS APPROVED BY ENGINEER AND METROBUS.
12. AT LEAST ONE SIDEWALK SHALL BE OPEN AT ALL TIMES WITH ACCESSIBLE CROSSING LOCATIONS.

SCALE
0 50 100 150

MAINTENANCE OF TRAFFIC
SEGMENT 3 PHASE 3
SHEET 31 OF 53

	DATE	DESCRIPTION
LAYOUT	11/2024	
DRAWN	JAM 11/2024	
REVIEWED	JAM	

DENNIS J KOSCIELSKI NUMBER PE-2005000712 STATE OF MISSOURI PROFESSIONAL ENGINEER

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DATE PREPARED	
7/15/2025	
ROUTE	STATE
231	MO
DISTRICT	SHEET NO.
SL	236

COUNTY: ST. LOUIS
JOB NO.: J6S3631
CONTRACT ID.:
PROJECT NO.:
BRIDGE NO.:

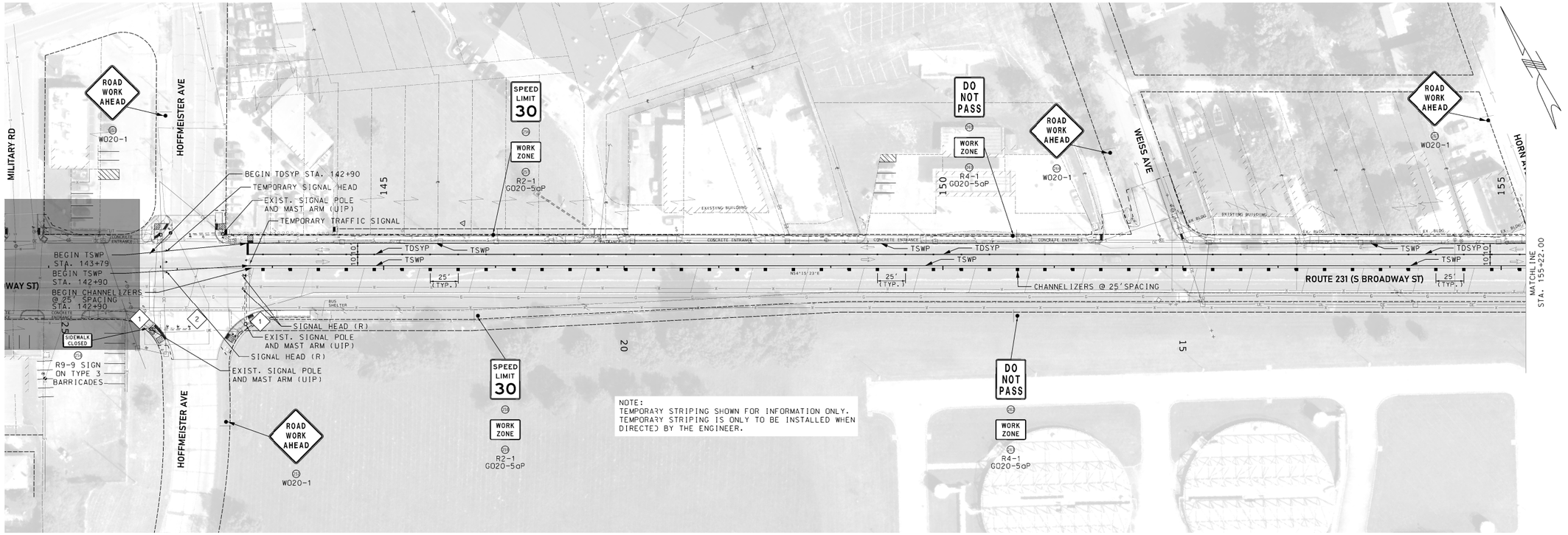
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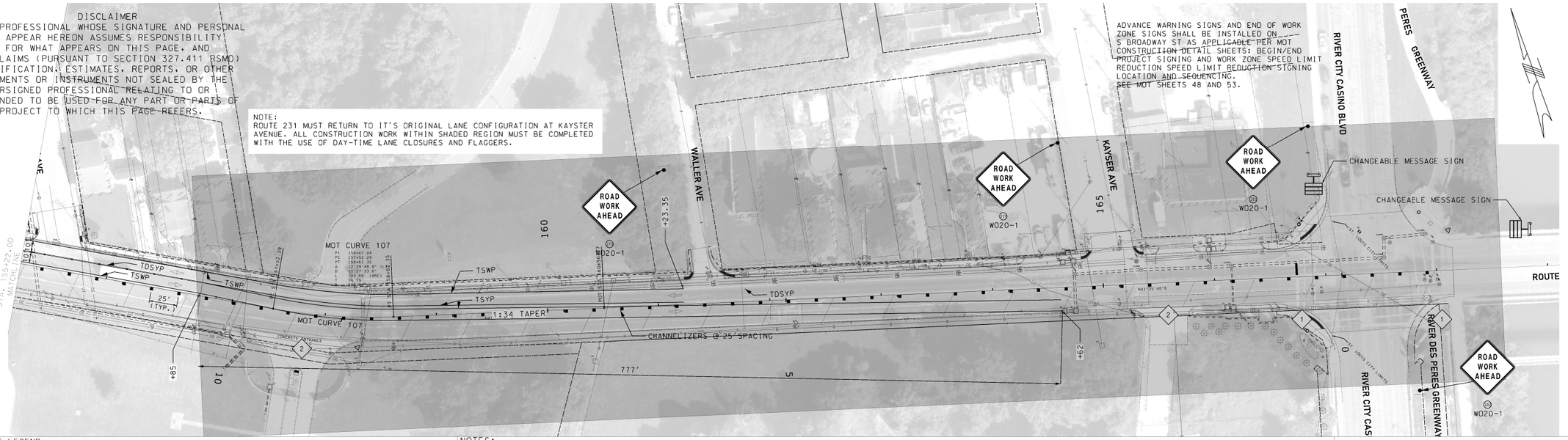
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NOTE:
ROUTE 231 MUST RETURN TO IT'S ORIGINAL LANE CONFIGURATION AT KAYSTER AVENUE. ALL CONSTRUCTION WORK WITHIN SHADED REGION MUST BE COMPLETED WITH THE USE OF DAY-TIME LANE CLOSURES AND FLAGGERS.

ADVANCE WARNING SIGNS AND END OF WORK ZONE SIGNS SHALL BE INSTALLED ON S BROADWAY ST AS APPLICABLE PER MOT CONSTRUCTION DETAIL SHEETS: BEGIN/END PROJECT SIGNING AND WORK ZONE SPEED LIMIT REDUCTION SPEED LIMIT REDUCTION SIGNING LOCATION AND SEQUENCING.
SEE MOT SHEETS 48 AND 53.



MOT LEGEND

- CONSTRUCTION AREA
- TSWP 4" PAVEMENT MARKING, SOLID WHITE
- TSYP 4" PAVEMENT MARKING, SOLID YELLOW
- TDSYP 4" PAVEMENT MARKING, DOUBLE SOLID YELLOW
- SIGN (SINGLE SIDED)
- MOVABLE BARRICADE
- CHANNELIZERS
- 24" WHITE STOP BAR
- FLOW ARROW
- 1 MOT CONSTRUCTION DETAIL SHEET: SIDEWALK CLOSURE. SEE SHEET 40
- 2 MOT CONSTRUCTION DETAIL SHEET: SIDE ROADS ENTERING WORK ZONES. SEE SHEET 39
- 3 MOT CONSTRUCTION DETAIL SHEET: LANE CLOSURE FOR ONE LANE – TWO WAY TRAFFIC CONTROL. SEE SHEET 41

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SCALE
0 50 100 150

MAINTENANCE OF TRAFFIC
SEGMENT 4 PHASE 3
SHEET 32 OF 53

	DATE	DESCRIPTION
LAYOUT	11/2024	
DRAWN	JAM 11/2024	
REVIEWED	JAM	

STATE OF MISSOURI
DENNIS J KOSCIELSKI
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COUNTY
ST. LOUIS

JOB NO.
J6S3631

CONTRACT ID.

PROJECT NO.

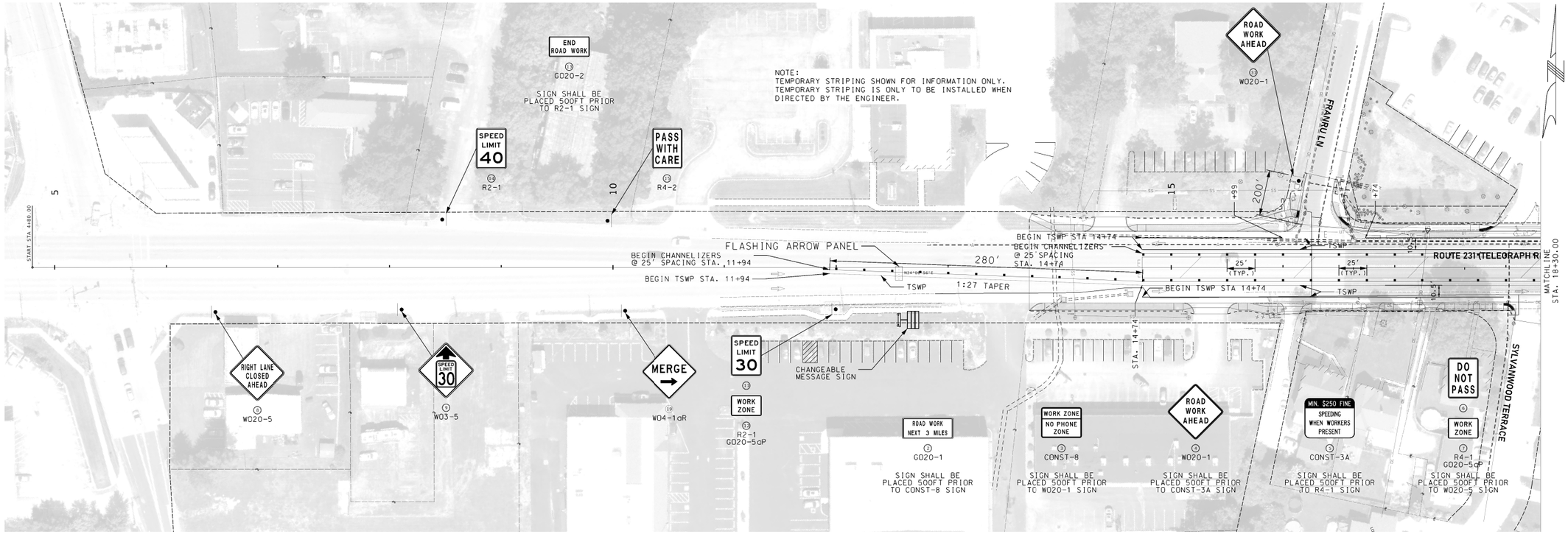
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SCALE

0 50 100 150

MAINTENANCE OF TRAFFIC
SEGMENT 1 PHASE 4
SHEET 33 OF 53

	DESCRIPTION	DATE
LAYOUT		
DRAWN	JAM	11/2024
REVIEWED	JAM	11/2024

STATE OF MISSOURI
DENNIS J KOSCIELSKI
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DATE PREPARED	
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ROUTE	STATE
231	MO
DISTRICT	SHEET NO.
SL	238
COUNTY	
ST. LOUIS	
JOB NO.	
J6S3631	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

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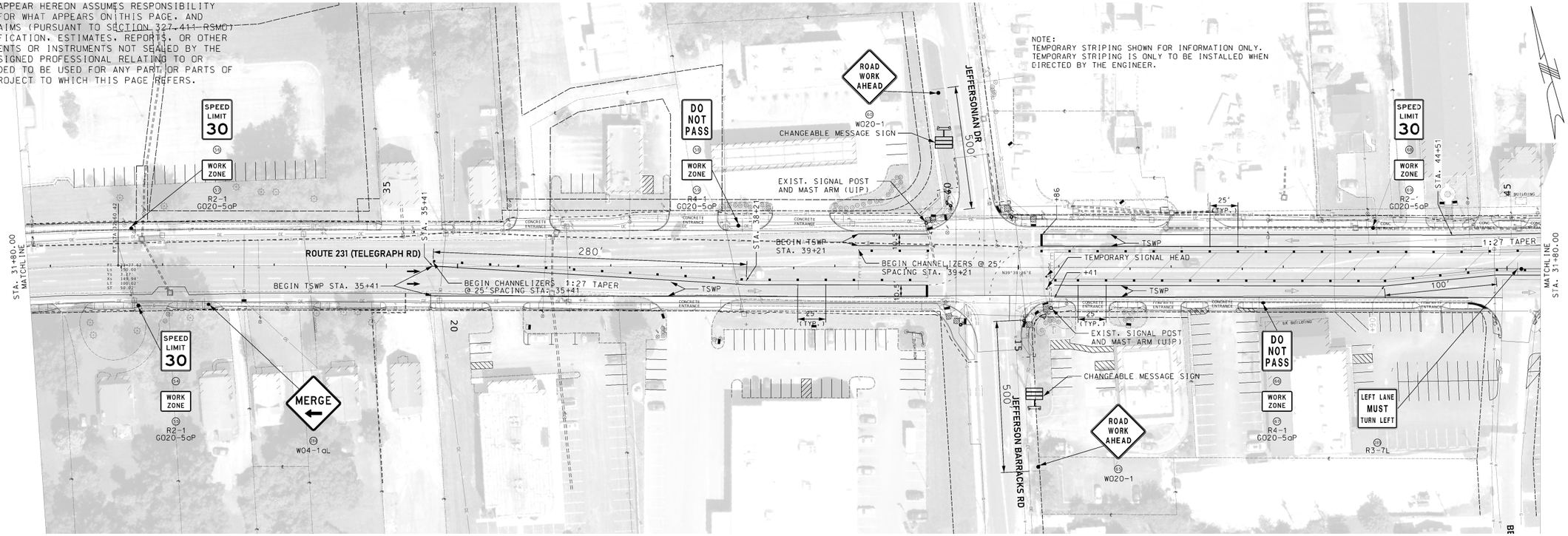
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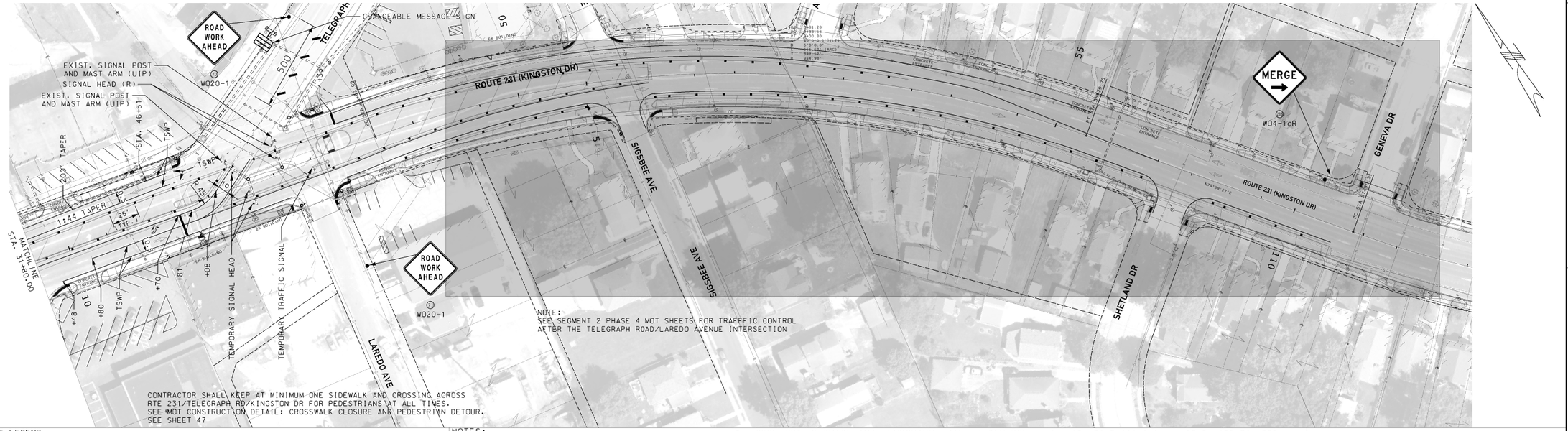
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2. MOT CONSTRUCTION DETAIL SHEET: SIDE ROADS ENTERING WORK ZONES. SEE SHEET 39
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SCALE
0 50 100 150

MAINTENANCE OF TRAFFIC
SEGMENT 1 PHASE 4
SHEET 34 OF 53

	DATE	DESCRIPTION
LAYOUT	11/2024	
DRAWN	JAM	
REVIEWED	11/2024	

STATE OF MISSOURI
DENNIS J KOSCIELSKI
NUMBER PE-2005000712
PROFESSIONAL ENGINEER

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DATE PREPARED 7/15/2025

ROUTE	STATE
231	MO
DISTRICT	SHEET NO.
SL	239

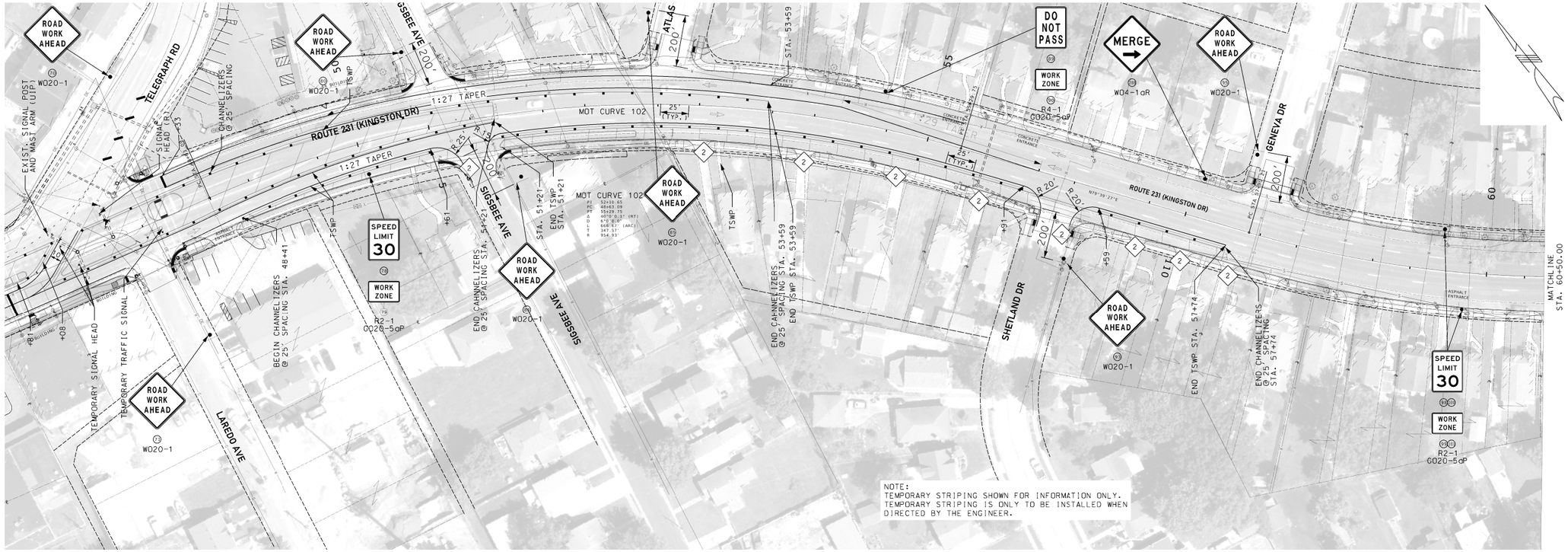
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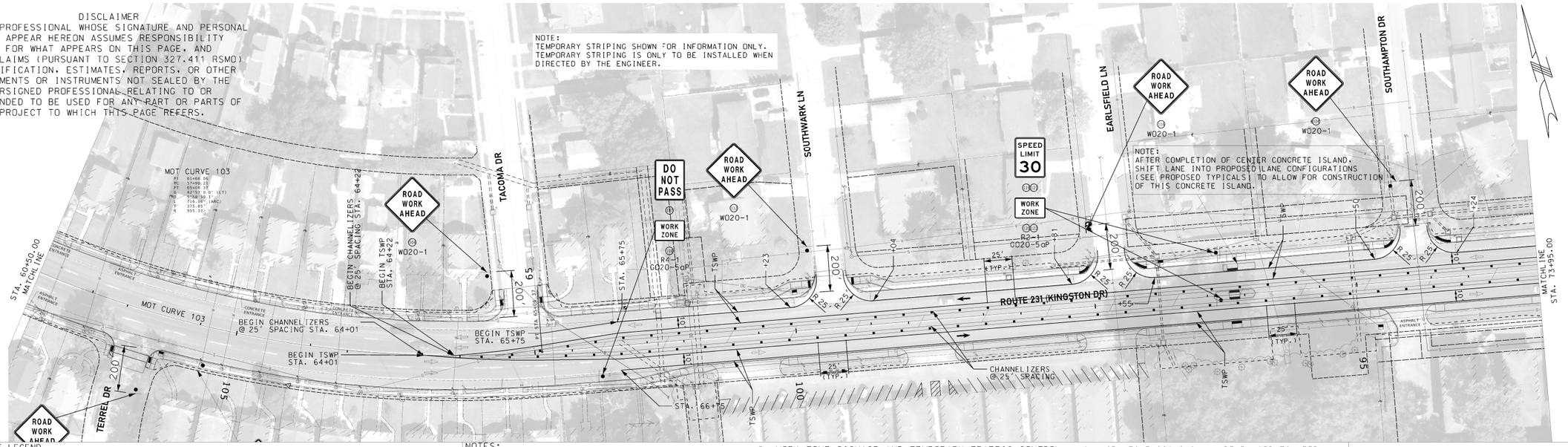
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SCALE
0 50 100 150

MAINTENANCE OF TRAFFIC
SEGMENT 2 PHASE 4
SHEET 35 OF 53

	DATE	DESCRIPTION
LAYOUT	11/2024	
DRAWN	JAM	
REVIEWED	11/2024	

STATE OF MISSOURI
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231	MO
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COUNTY
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J6S3631

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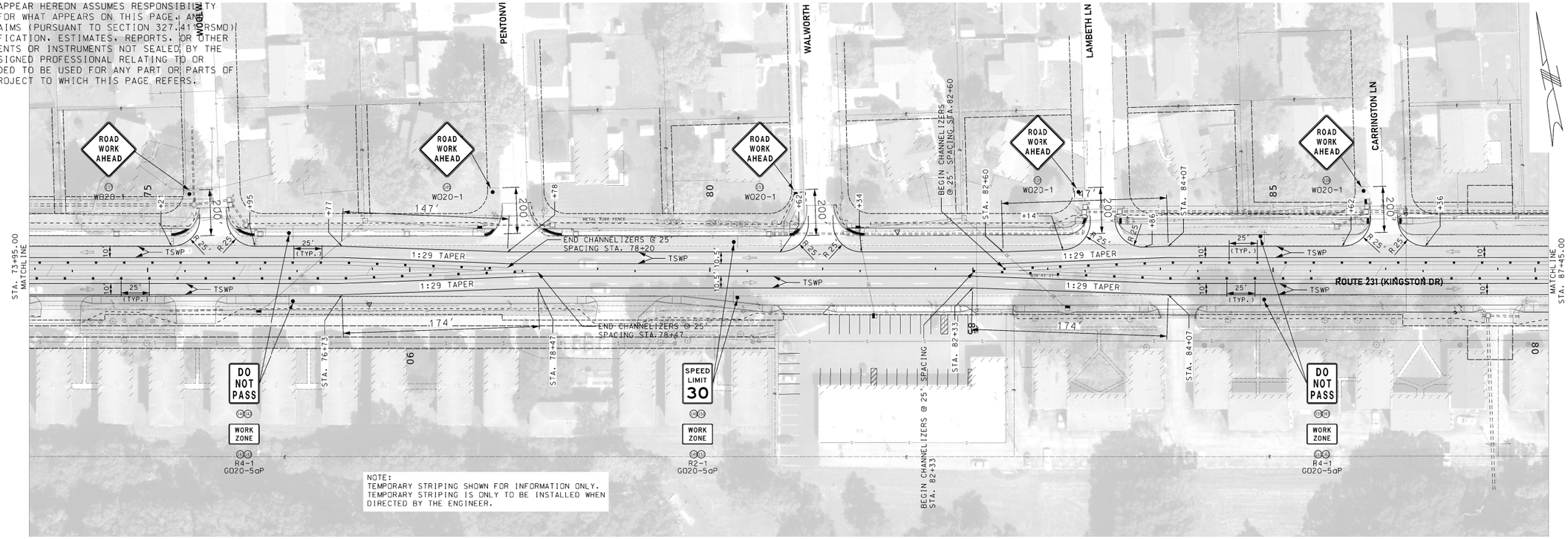
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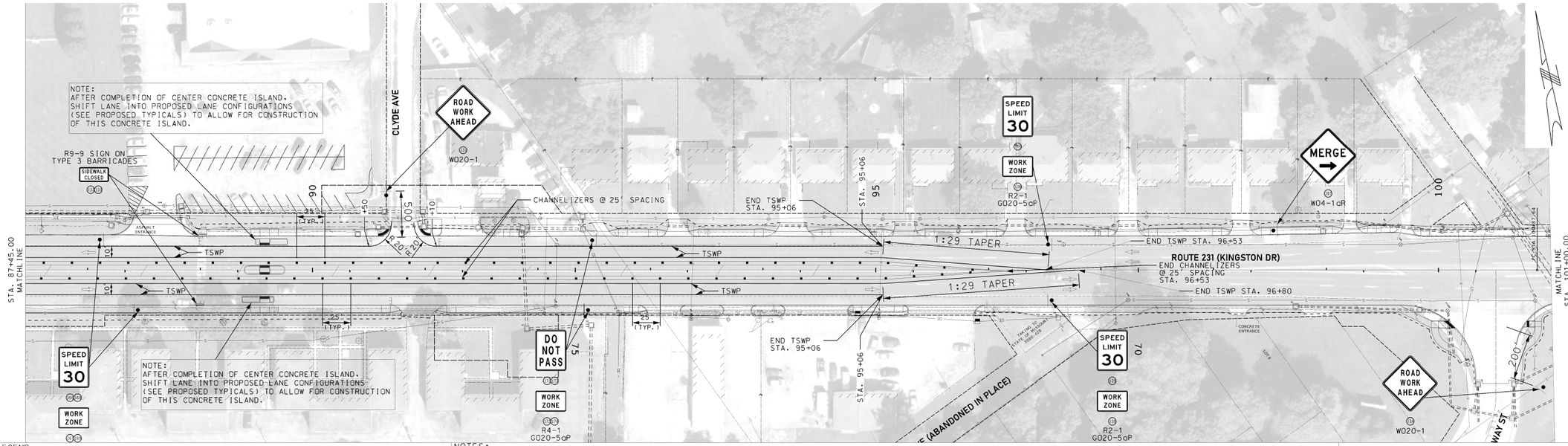
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SCALE
0 50 100 150

MAINTENANCE OF TRAFFIC
SEGMENT 2 PHASE 4
SHEET 36 OF 53

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PROJECT NO.

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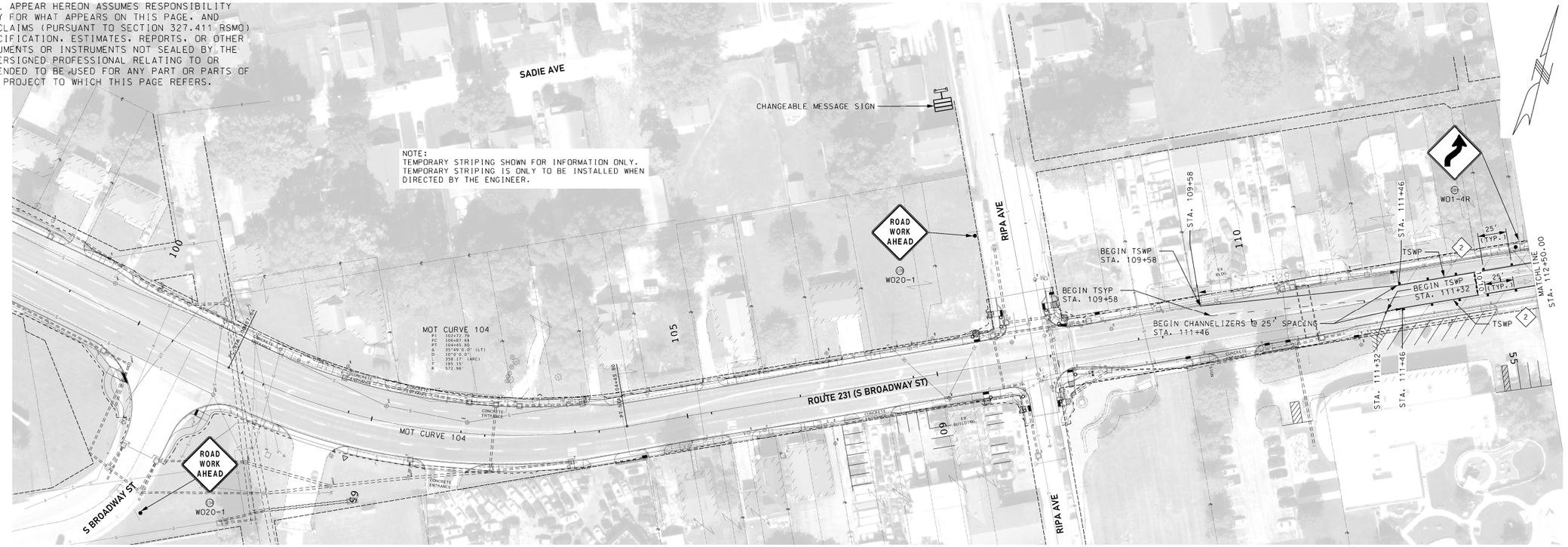
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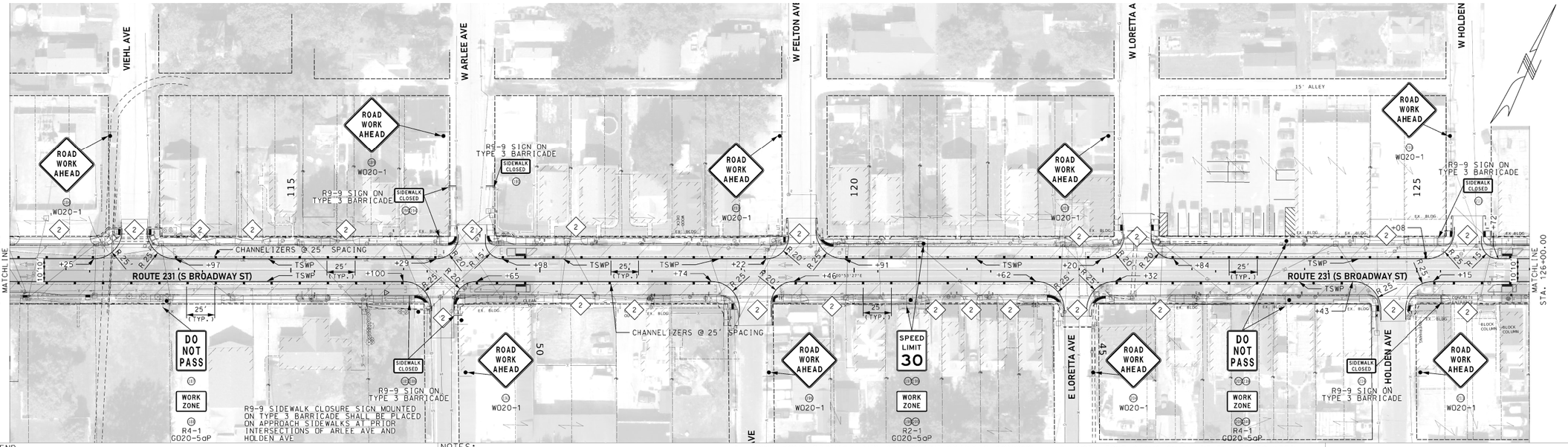
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MOT LEGEND

- CONSTRUCTION AREA
- TSWP 4" PAVEMENT MARKING, SOLID WHITE
- TSYP 4" PAVEMENT MARKING, SOLID YELLOW
- TDSYP 4" PAVEMENT MARKING, DOUBLE SOLID YELLOW
- SIGN (SINGLE SIDED)
- MOVABLE BARRICADE
- CHANNELIZERS
- 24" WHITE STOP BAR
- FLOW ARROW

1. MOT CONSTRUCTION DETAIL SHEET: SIDEWALK CLOSURE. SEE SHEET 40
2. MOT CONSTRUCTION DETAIL SHEET: SIDE ROADS ENTERING WORK ZONES. SEE SHEET 39
3. MOT CONSTRUCTION DETAIL SHEET: LANE CLOSURE FOR ONE LANE – TWO WAY TRAFFIC CONTROL. SEE SHEET 41

NOTES:
1. CONTRACTOR IS RESPONSIBLE FOR ENSURING THAT ALL SIGNS AND INSTALLATIONS COMPLY WITH THE FULL EXTENT OF THE LATEST EDITION OF THE M.U.T.C.D.
2. CONTRACTOR SHALL FIELD ADJUST INSTALLATIONS. AS APPROVED BY THE ENGINEER.
3. REVIEW EPG 616.6.63 CHANNELIZING DEVICES FOR DIFFERENT TYPES AND GUIDELINES FOR THE DEVICES.
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7. EXISTING PAVEMENT MARKING IN CONFLICT WITH TEMPORARY PAVEMENT MARKINGS SHALL BE REMOVED.
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11. ALL BUS STOP LOCATIONS AND SIGN FACES SHALL REMAIN UIP OR PROVIDED ALTERNATIVE AS APPROVED BY ENGINEER AND METROBUS.
12. AT LEAST ONE SIDEWALK SHALL BE OPEN AT ALL TIMES WITH ACCESSIBLE CROSSING LOCATIONS.

SCALE
0 50 100 150

MAINTENANCE OF TRAFFIC
SEGMENT 3 PHASE 4
SHEET 37 OF 53

	DATE	DESCRIPTION
LAYOUT	11/2024	
DRAWN	JAM	
REVIEWED	11/2024	

STATE OF MISSOURI
DENNIS J KOSCIELSKI
NUMBER PE-2005000712
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED
7/15/2025

ROUTE	STATE
231	MO
DISTRICT	SHEET NO.
SL	242

COUNTY
ST. LOUIS

JOB NO.
J6S3631

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

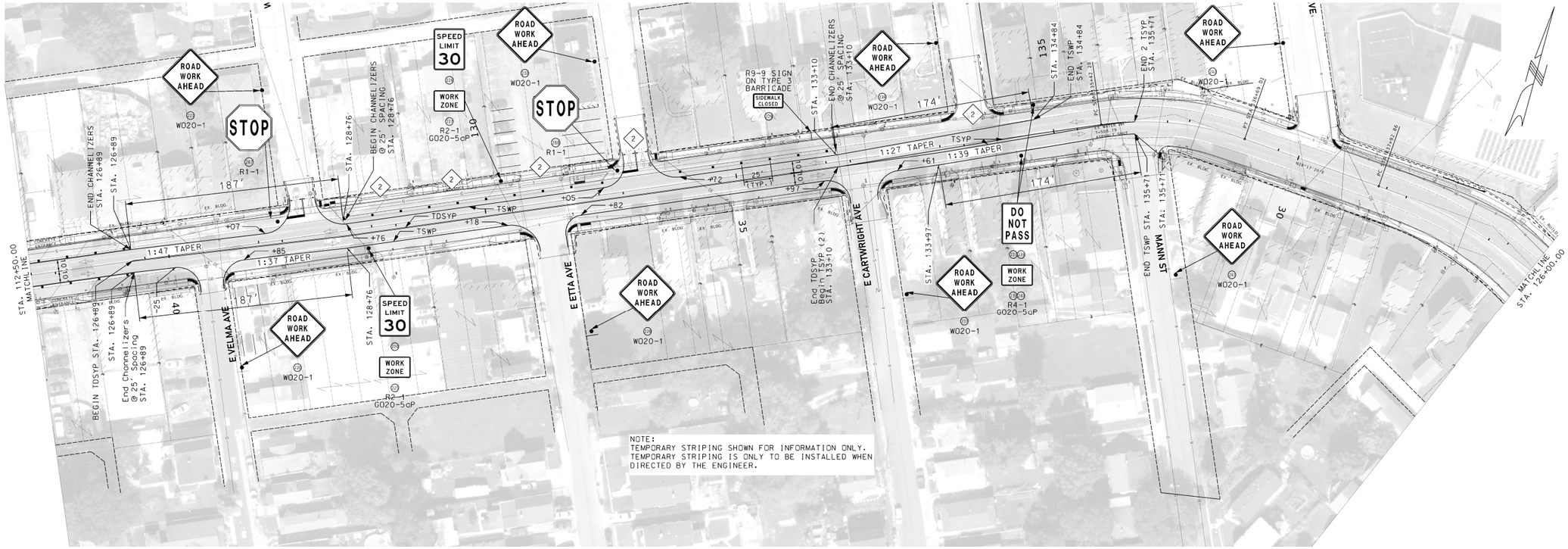
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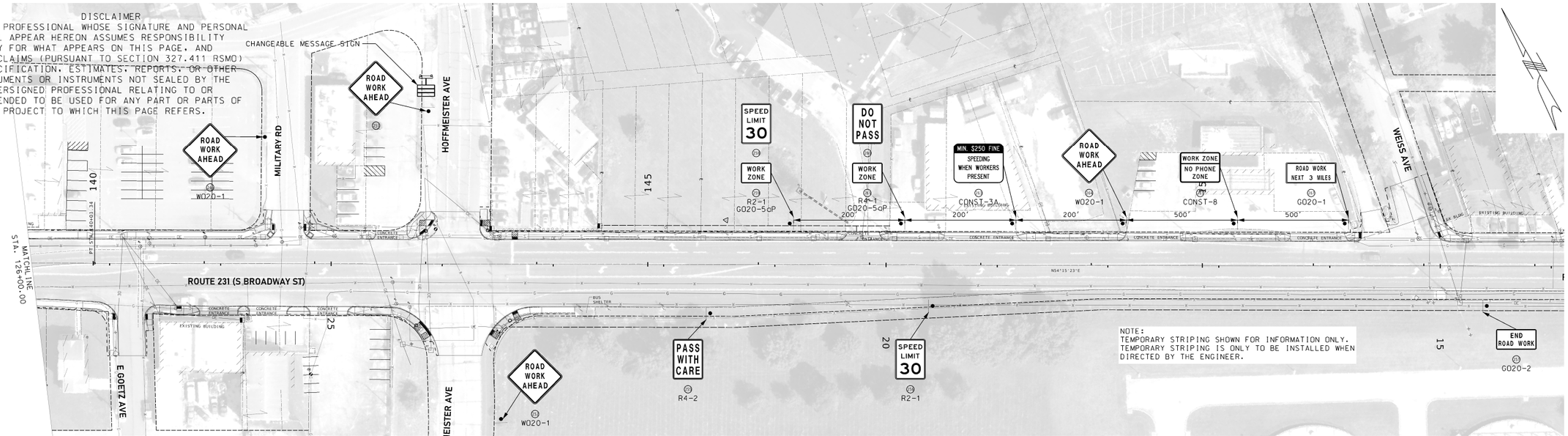
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105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

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St. Louis, Missouri 63101
Professional Engineer 001632
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314.770.0467





MOT LEGEND

- CONSTRUCTION AREA
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- TSYP 4" PAVEMENT MARKING. SOLID YELLOW
- TDSYP 4" PAVEMENT MARKING. DOUBLE SOLID YELLOW
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- 24" WHITE STOP BAR
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SCALE

0 50 100 150

MAINTENANCE OF TRAFFIC
SEGMENT 3 PHASE 4
SHEET 38 OF 53

	DATE	DESCRIPTION
LAYOUT	11/2024	
DRAWN	JAM 11/2024	
REVIEWED	JAM	

STATE OF MISSOURI
DENNIS J KOSCIELSKI
NUMBER PE-2005000712
PROFESSIONAL ENGINEER

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DATE PREPARED
7/15/2025

ROUTE	STATE
231	MO
DISTRICT	SHEET NO.
SL	243

COUNTY
ST. LOUIS

JOB NO.
J6S3631

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

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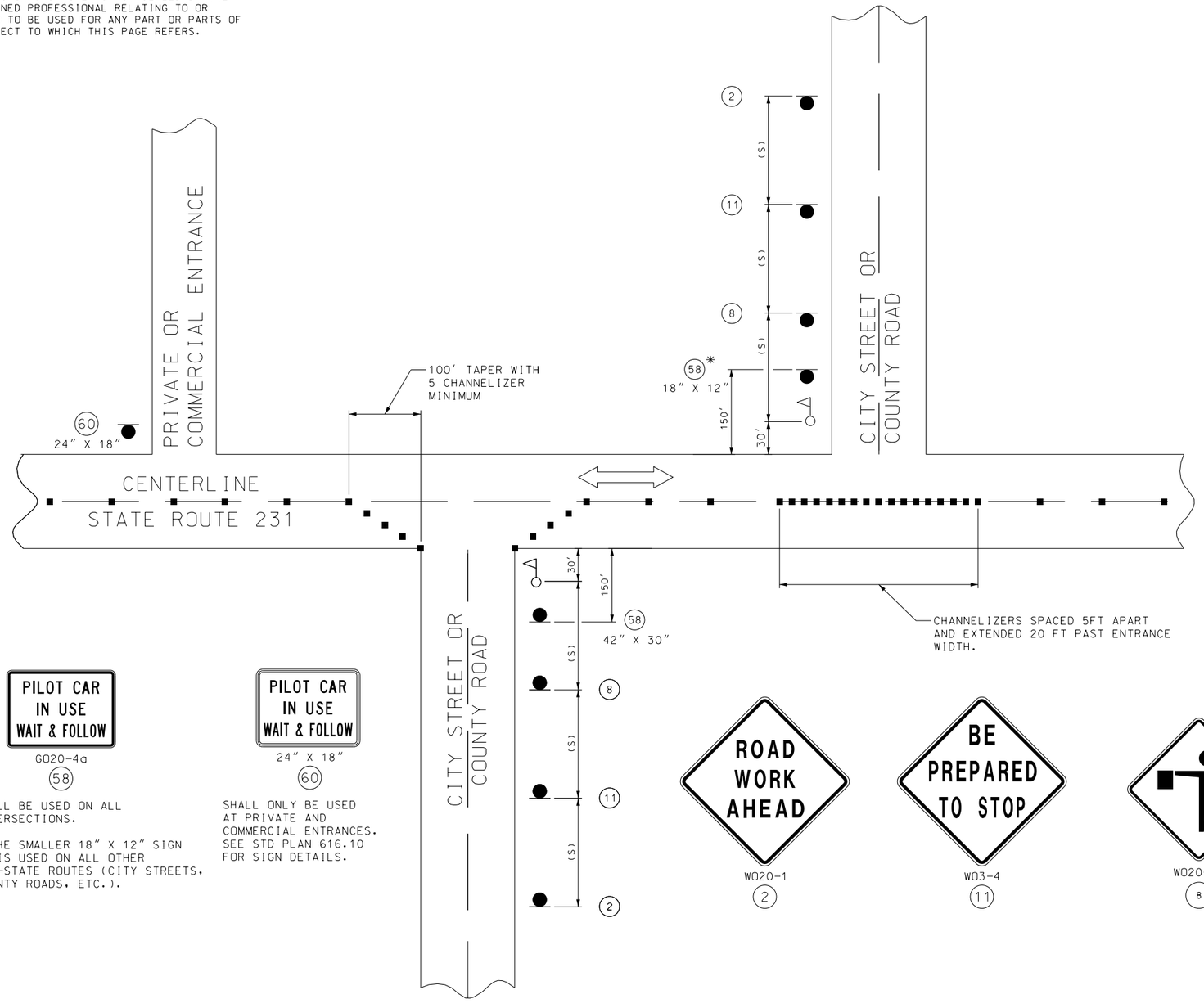
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SPEED	SIGN SPACING (FT)	CHANNELIZER SPACING (FT)
PERMANENT POSTED (MPH)	NON-DIVIDED HIGHWAYS (S)	BUFFER/ WORK AREA (TYP.)
0-35	200	40
40-45	350	80

NOTES:
THIS DETAIL SHALL BE FOLLOWED FOR ALL SIDE ROADS, STATE ROUTES, AND PRIVATE/COMMERCIAL ENTRANCES THAT INTERSECT WITH ROUTE 231. SEE MOT PLAN SHEETS FOR APPLICABLE LOCATIONS.

WARNING SIGNS SHALL BE ERECTED AT EACH INTERSECTION WITH ANOTHER STATE HIGHWAY WITHIN THE WORK ZONE.

ADDITIONAL WARNING SIGNS SHALL BE ERECTED AT OTHER INTERSECTIONS WITHIN THE WORK ZONE, AS DIRECTED BY THE ENGINEER.

SPACING MAY BE ADJUSTED AS NECESSARY TO MEET FIELD CONDITIONS.

■ - CHANNELIZERS (AS SPECIFIED)

⚠○ - FLAGGER

PILOT CAR IN USE WAIT & FOLLOW
G020-4a
58

SHALL BE USED ON ALL INTERSECTIONS.

* THE SMALLER 18" X 12" SIGN 58 IS USED ON ALL OTHER NON-STATE ROUTES (CITY STREETS, COUNTY ROADS, ETC.).

PILOT CAR IN USE WAIT & FOLLOW
24" X 18"
60

SHALL ONLY BE USED AT PRIVATE AND COMMERCIAL ENTRANCES. SEE STD PLAN 616.10 FOR SIGN DETAILS.

SIDE ROADS ENTERING WORK ZONES

MOT LEGEND
- CONSTRUCTION AREA
- TSWP 4" PAVEMENT MARKING, SOLID WHITE
- TSYP 4" PAVEMENT MARKING, SOLID YELLOW
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- MOVABLE BARRICADE
- CHANNELIZERS
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MAINTENANCE OF TRAFFIC
MOT CONSTRUCTION DETAILS
SHEET 39 OF 53

LAYOUT 11/2024
DRAWN JAM 11/2024
REVIEWED JAM

STATE OF MISSOURI
DENNIS J KOSCIELSKI
NUMBER PE-2005000712
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED 7/15/2025
ROUTE 231 | STATE MO
DISTRICT SL | SHEET NO. 244
COUNTY ST. LOUIS
JOB NO. J6S3631
CONTRACT ID.
PROJECT NO.
BRIDGE NO.

DESCRIPTION | DATE

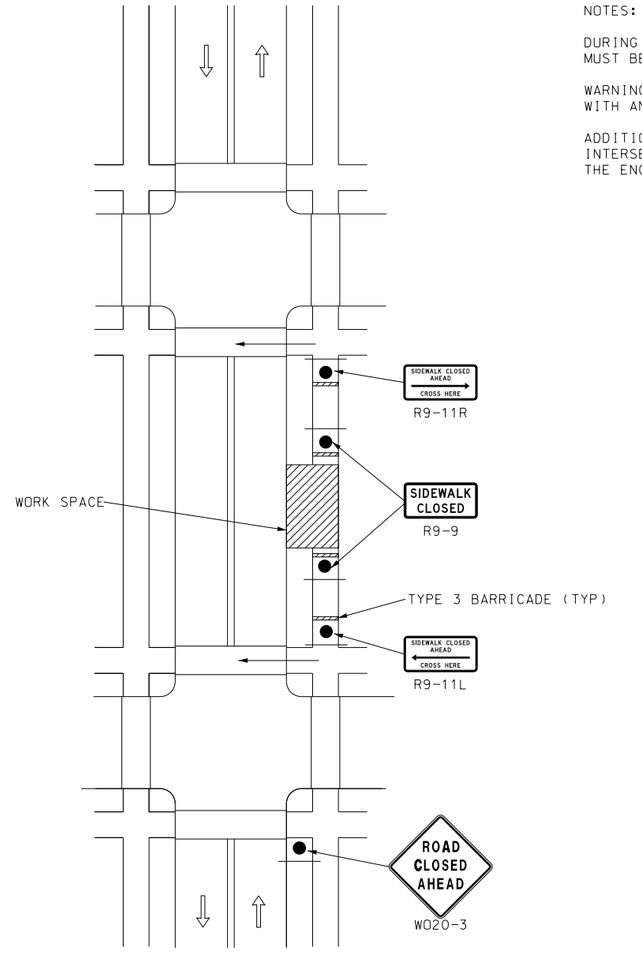
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MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
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NOT TO SCALE



SIDEWALK DETOUR

NOTES:

DURING SIDEWALK CONSTRUCTION, ONE SIDE OF SIDEWALK MUST BE OPEN TO PEDESTRIANS AT ALL TIMES.

WARNING SIGNS SHALL BE ERECTED AT EACH INTERSECTION WITH ANOTHER STATE HIGHWAY WITHIN THE WORK ZONE.

ADDITIONAL WARNING SIGNS SHALL BE ERECTED AT OTHER INTERSECTIONS WITHIN THE WORK ZONE, AS DIRECTED BY THE ENGINEER.

SIDEWALK CLOSURE ENTERING WORK ZONES

MOT LEGEND

- CONSTRUCTION AREA
- TSWP 4" PAVEMENT MARKING, SOLID WHITE
- TSYP 4" PAVEMENT MARKING, SOLID YELLOW
- TDSYP 4" PAVEMENT MARKING, DOUBLE SOLID YELLOW
- SIGN (SINGLE SIDED)
- MOVABLE BARRICADE
- CHANNELIZERS
- 24" WHITE STOP BAR
- FLOW ARROW

1. MOT CONSTRUCTION DETAIL SHEET: SIDEWALK CLOSURE. SEE SHEET 40
2. MOT CONSTRUCTION DETAIL SHEET: SIDE ROADS ENTERING WORK ZONES. SEE SHEET 39
3. MOT CONSTRUCTION DFETAIL SHEET: LANE CLOSURE FOR ONE LANE - TWO WAY TRAFFIC CONTROL. SEE SHEET 41

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MAINTENANCE OF TRAFFIC
MOT CONSTRUCTION DETAILS
SHEET 40 OF 53

	DATE	DESCRIPTION
LAYOUT	11/2024	
DRAWN	JAM	
REVIEWED	11/2024	

STATE OF MISSOURI
DENNIS J KOSCIELSKI
NUMBER PE-2005000712
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED 7/15/2025

ROUTE	STATE
231	MO
DISTRICT	SHEET NO.
SL	245

COUNTY: ST. LOUIS
JOB NO.: J6S3631
CONTRACT ID.:
PROJECT NO.:
BRIDGE NO.:

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MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
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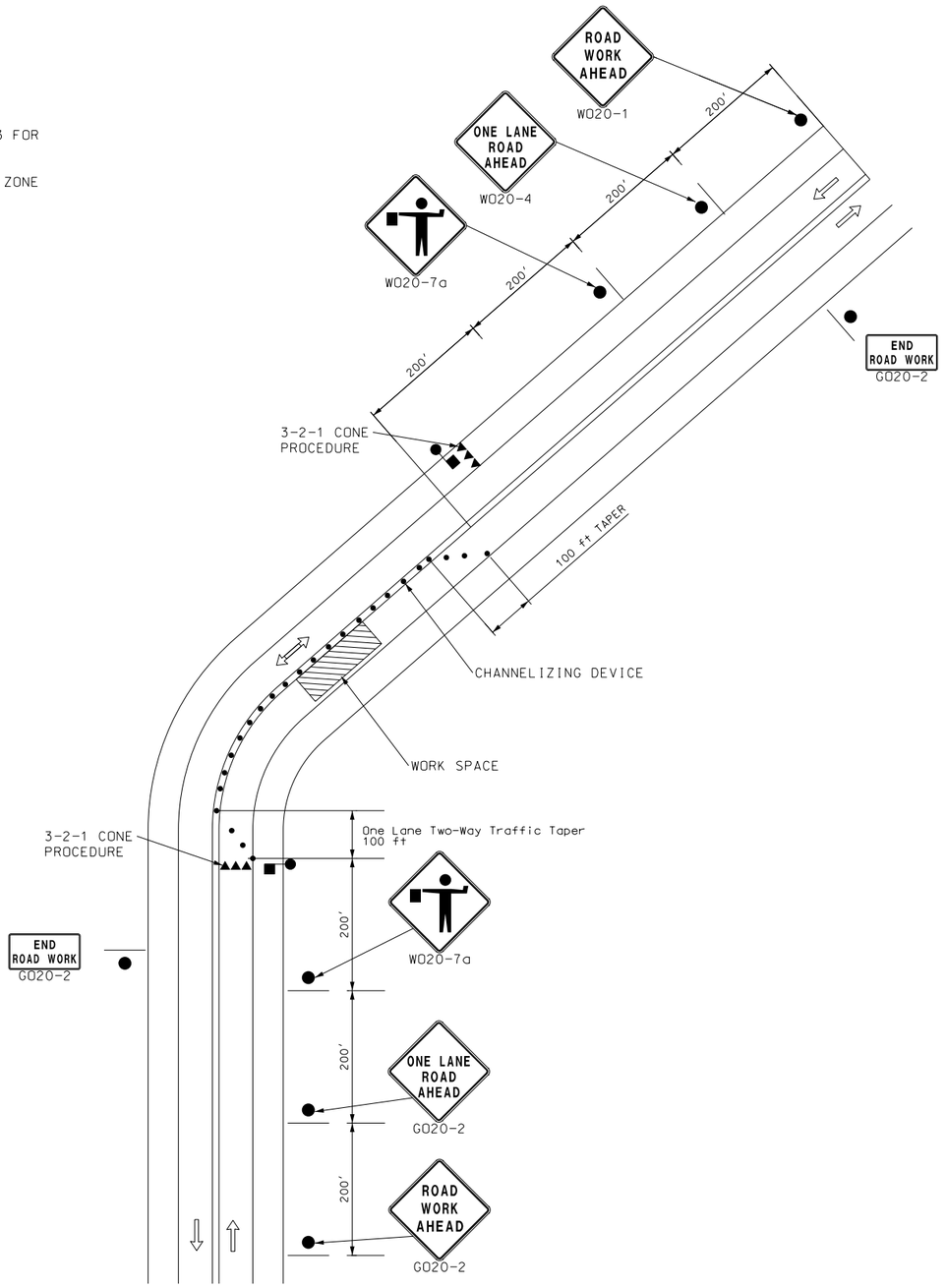
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NOTES:

THIS SHALL OCCUR DURING MEDIAN CONSTRUCTION DURING PHASE 3 FOR SEGMENT 1 & 2, AND PHASE 5 FOR SEGMENT 3

ADDITIONAL WARNING SIGNS SHALL BE ERECTED WITHIN THE WORK ZONE AS DIRECTED BY THE ENGINEER

NOT TO SCALE



LANE CLOSURE FOR
ONE LANE- TWO WAY
TRAFFIC CONTROL

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MAINTENANCE OF TRAFFIC
MOT CONSTRUCTION DETAILS
SHEET 41 OF 53

	DATE	DESCRIPTION
LAYOUT	11/2024	
DRAWN	JAM	
REVIEWED	11/2024	

STATE OF MISSOURI
DENNIS J KOSCIELSKI
NUMBER PE-2005000712
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED
7/15/2025

ROUTE	STATE
231	MO
DISTRICT	SHEET NO.
SL	246

COUNTY
ST. LOUIS

JOB NO.
J6S3631

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

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MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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JEFFERSON CITY, MO 65102
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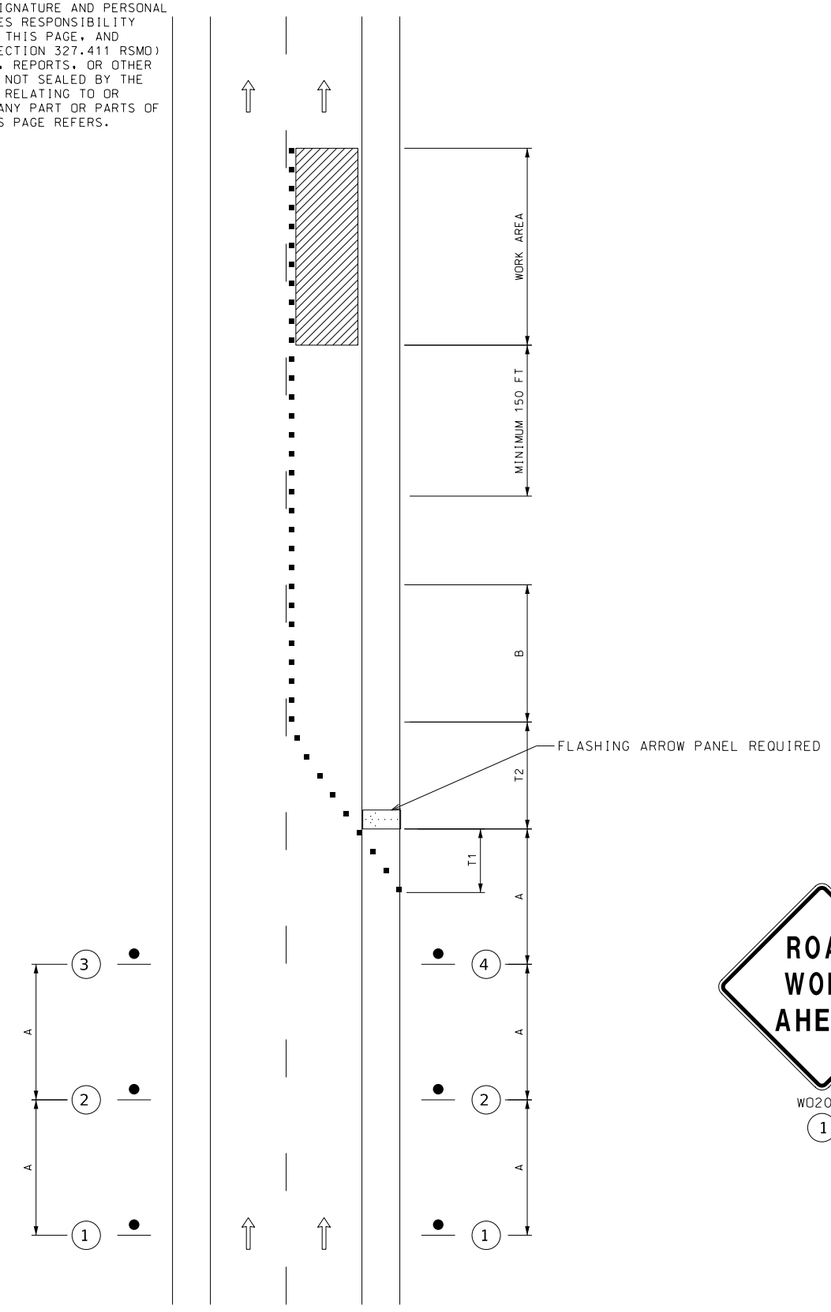
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NOT TO SCALE



TRAFFIC CONTROL LEGEND

- SIGN (SINGLE SIDED)
- WORK AREA
- CHANNELIZER
- FLASHING ARROW PANEL (FAP)
- TURCK/TRAILER MOUNTED ATTENUATOR (TMA)
- PROTECTIVE VEHICLE

SPEED	SIGN SPACING (FT.)	TAPER LENGTH (FT.)		OPTIONAL	CHANNELIZER SPACING (FT.)	
TCP POSTED (MPH)	UNDIVIDED (A)	SHOULDER (T1)	LANE (T2)	BUFFER LENGTH (FT) (B)	TAPERS	BUFFER/WORK AREAS
0-45	350	150	540	360	40	80

W020-1
1



W020-5
2



W020-6a
3



W04-1aL
4

STATIONARY LANE CLOSURE
ON A MULTI-LANE HIGHWAY

MOT LEGEND

- CONSTRUCTION AREA
- TSWP 4" PAVEMENT MARKING, SOLID WHITE
- TSYP 4" PAVEMENT MARKING, SOLID YELLOW
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MAINTENANCE OF TRAFFIC
MOT CONSTRUCTION DETAILS
SHEET 42 OF 53

	DESCRIPTION	DATE
LAYOUT		11/2024
DRAWN		JAM 11/2024
REVIEWED		JAM

STATE OF MISSOURI
DENNIS J KOSCIELSKI
NUMBER PE-2005000712
PROFESSIONAL ENGINEER

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DATE PREPARED 7/15/2025

ROUTE	STATE
231	MO
DISTRICT	SHEET NO.
SL	247

COUNTY: ST. LOUIS
JOB NO.: J6S3631
CONTRACT ID.:
PROJECT NO.:
BRIDGE NO.:

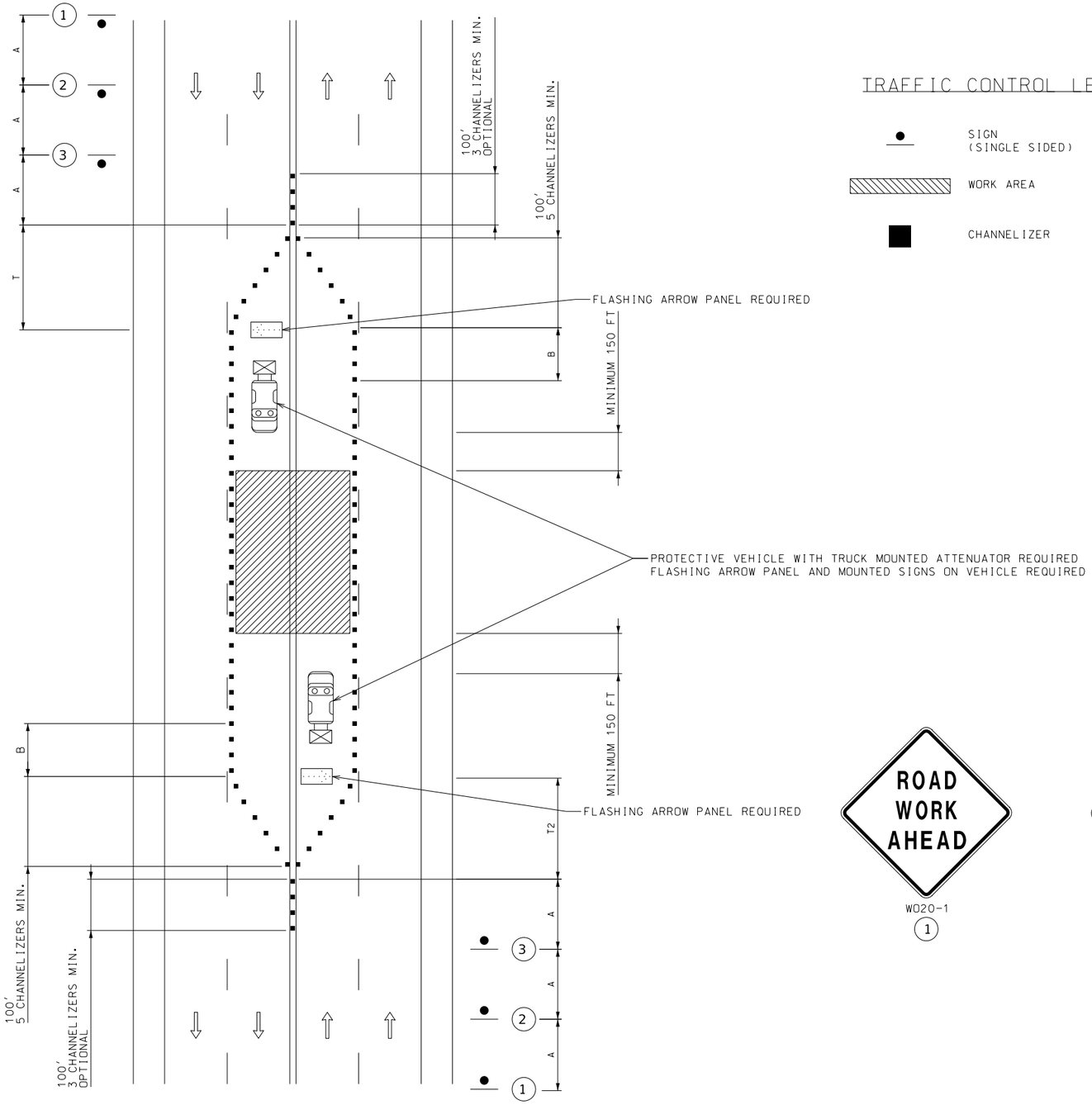
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MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
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St. Louis, Missouri 63101
Professional Engineer 001632
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314.770.0467

NOT TO SCALE



TRAFFIC CONTROL LEGEND

- SIGN (SINGLE SIDED)
- WORK AREA
- CHANNELIZER
- FLASHING ARROW PANEL (FAP)
- TURCK/TRAILER MOUNTED ATTENUATOR (TMA)
- PROTECTIVE VEHICLE

SPEED	SIGN SPACING (FT.)	TAPER LENGTH (FT.)		OPTIONAL	CHANNELIZER SPACING (FT.)	
TCP POSTED (MPH)	UNDIVIDED (A)	SHOULDER (T1)	LANE (T2)	BUFFER LENGTH (FT) (B)	TAPERS	BUFFER/WORK AREAS
0-45	350	150	540	360	40	80

WO20-1
(1)



WO20-5
(2)



WO20-6a
(3)

STATIONARY LANE CLOSURE
ON A MULTI-LANE HIGHWAY
WITH ENCROACHMENT

MOT LEGEND

- CONSTRUCTION AREA
- TSWP 4" PAVEMENT MARKING, SOLID WHITE
- TSYP 4" PAVEMENT MARKING, SOLID YELLOW
- TDSYP 4" PAVEMENT MARKING, DOUBLE SOLID YELLOW
- SIGN (SINGLE SIDED)
- MOVABLE BARRICADE
- CHANNELIZERS
- 24" WHITE STOP BAR
- FLOW ARROW

(1) MOT CONSTRUCTION DETAIL SHEET: SIDEWALK CLOSURE. SEE SHEET 40

(2) MOT CONSTRUCTION DETAIL SHEET: SIDE ROADS ENTERING WORK ZONES. SEE SHEET 39

(3) MOT CONSTRUCTION DFETAIL SHEET: LANE CLOSURE FOR ONE LANE - TWO WAY TRAFFIC CONTROL. SEE SHEET 41

NOTES:
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12. AT LEAST ONE SIDEWALK SHALL BE OPEN AT ALL TIMES WITH ACCESSIBLE CROSSING LOCATIONS.

MAINTENANCE OF TRAFFIC
MOT CONSTRUCTION DETAILS
SHEET 43 OF 53

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STATE OF MISSOURI
DENNIS J KOSCIELSKI
NUMBER PE-2005000712
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED 7/15/2025

ROUTE	STATE
231	MO
DISTRICT	SHEET NO.
SL	248

COUNTY: ST. LOUIS
JOB NO.: J6S3631
CONTRACT ID.:
PROJECT NO.:
BRIDGE NO.:

DESCRIPTION	DATE	LAYOUT	DRAWN	REVIEWED
	11/2024		JAM	JAM
	11/2024		JAM	JAM

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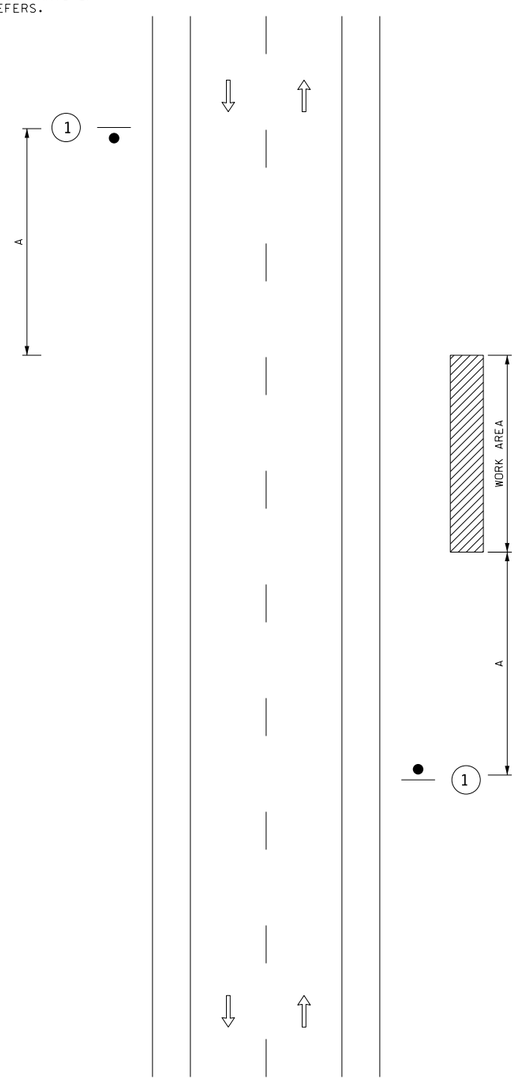
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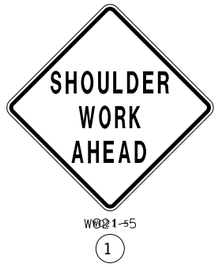


NOTES:

WORK MUST BE IN CLEAR ZONE FOR TYPICAL APPLICATION.

FOR DIVIDED HIGHWAY AND MULTILANE APPLICATIONS: ADVISORY SIGNS SHALL ONLY BE PLACED ON SIDE OF THE ROAD NEAREST TO THE SHOULDER WORK.

FLASHING, HIGH-INTENSITY ROTATING, OSCILLATING, OR STROBE LIGHTS SHALL BE USED. VEHICLE HAZARD WARNING SIGNALS MAY BE USED IN ADDITION TO, BUT NOT IN PLACE OF, LIGHTS PREVIOUSLY MENTIONED.



SPEED	SIGN SPACING (FT.)	
TCP POSTED (MPH)	UNDIVIDED (A)	DIVIDED (A)
0-35	200	200

TRAFFIC CONTROL LEGEND

SIGN (SINGLE SIDED)

WORK AREA

WORK BEYOND THE SHOULDER MOT DETAIL

MOT LEGEND

- CONSTRUCTION AREA
- TSWP 4" PAVEMENT MARKING, SOLID WHITE
- TSYP 4" PAVEMENT MARKING, SOLID YELLOW
- TDSYP 4" PAVEMENT MARKING, DOUBLE SOLID YELLOW
- SIGN (SINGLE SIDED)
- MOVABLE BARRICADE
- CHANNELIZERS
- 24" WHITE STOP BAR
- FLOW ARROW

1. MOT CONSTRUCTION DETAIL SHEET: SIDEWALK CLOSURE. SEE SHEET 40
2. MOT CONSTRUCTION DETAIL SHEET: SIDE ROADS ENTERING WORK ZONES. SEE SHEET 39
3. MOT CONSTRUCTION DFETAIL SHEET: LANE CLOSURE FOR ONE LANE - TWO WAY TRAFFIC CONTROL. SEE SHEET 41

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MAINTENANCE OF TRAFFIC
MOT CONSTRUCTION DETAILS
SHEET 44 OF 53

	DATE	DESCRIPTION
LAYOUT	11/2024	
DRAWN	JAM	
REVIEWED	11/2024	

STATE OF MISSOURI
DENNIS J KOSCIELSKI
NUMBER PE-2005000712
PROFESSIONAL ENGINEER

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DATE PREPARED
7/15/2025

ROUTE	STATE
231	MO
DISTRICT	SHEET NO.
SL	249

COUNTY
ST. LOUIS

JOB NO.
J6S3631

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

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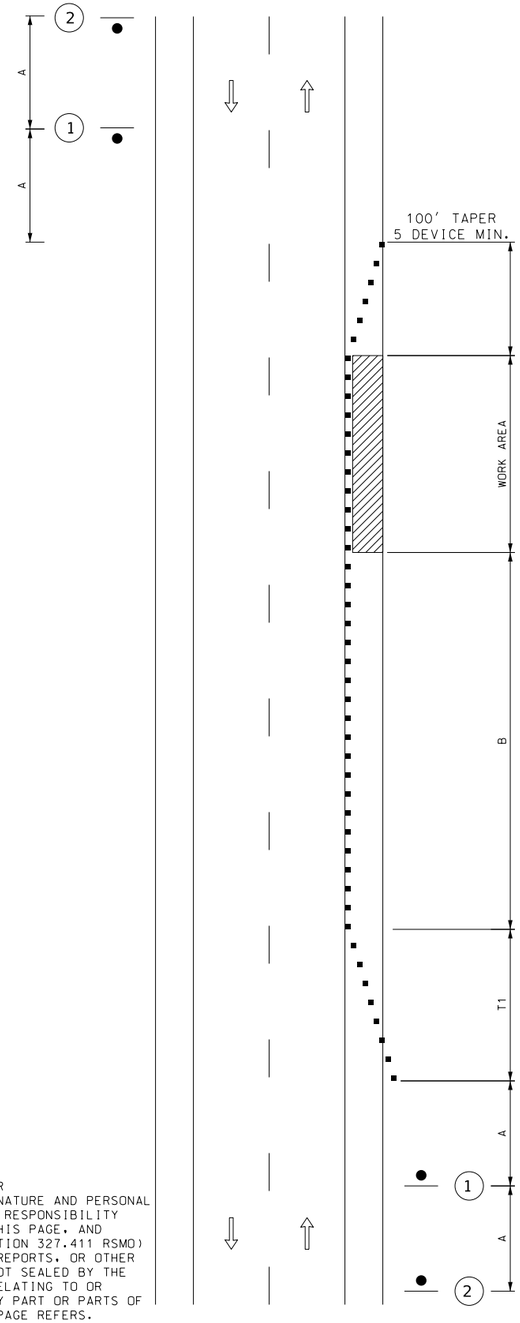
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NOT TO SCALE



SPEED	SIGN SPACING (FT.)	TAPER LENGTH (FT.)		OPTIONAL	CHANNELIZER SPACING (FT.)	
TCP POSTED (MPH)	UNDIVIDED (A)	SHOULDER (T1)	LANE (T2)	BUFFER LENGTH (FT) (B)	TAPERS	BUFFER/WORK AREAS
0-45	350	150	540	360	40	80



W021-5
(1)



W020-1
(2)

TRAFFIC CONTROL LEGEND

SIGN (SINGLE SIDED)

WORK AREA

CHANNELIZER

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WORK ON THE SHOULDER ON UNDIVIDED/DIVIDED HIGHWAYS

MOT LEGEND

- CONSTRUCTION AREA
- TSWP 4" PAVEMENT MARKING, SOLID WHITE
- TSYP 4" PAVEMENT MARKING, SOLID YELLOW
- TDSYP 4" PAVEMENT MARKING, DOUBLE SOLID YELLOW
- SIGN (SINGLE SIDED)
- MOVABLE BARRICADE
- CHANNELIZERS
- 24" WHITE STOP BAR
- FLOW ARROW

(1) MOT CONSTRUCTION DETAIL SHEET: SIDEWALK CLOSURE. SEE SHEET 40

(2) MOT CONSTRUCTION DETAIL SHEET: SIDE ROADS ENTERING WORK ZONES. SEE SHEET 39

(3) MOT CONSTRUCTION DFETAIL SHEET: LANE CLOSURE FOR ONE LANE - TWO WAY TRAFFIC CONTROL. SEE SHEET 41

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MAINTENANCE OF TRAFFIC
MOT CONSTRUCTION DETAILS
SHEET 45 OF 53

	DESCRIPTION	DATE
LAYOUT		11/2024
DRAWN	JAM	11/2024
REVIEWED	JAM	

STATE OF MISSOURI
DENNIS J KOSCIELSKI
NUMBER PE-2005000712
PROFESSIONAL ENGINEER

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DATE PREPARED 7/15/2025

ROUTE	STATE
231	MO
DISTRICT	SHEET NO.
SL	250

COUNTY ST. LOUIS
JOB NO. J6S3631
CONTRACT ID.
PROJECT NO.
BRIDGE NO.

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TRAFFIC CONTROL LEGEND

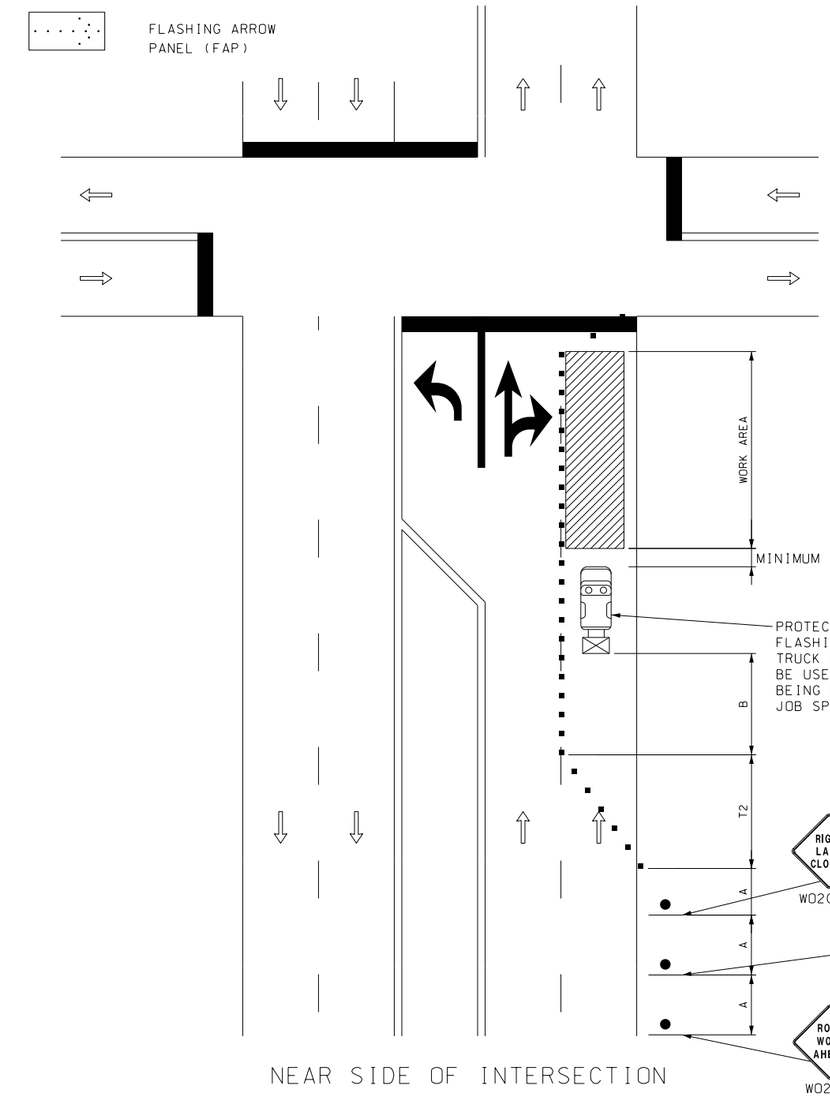
- SIGN (SINGLE SIDED)
- WORK AREA
- CHANNELIZER
- FLASHING ARROW PANEL (FAP)
- TYPE 3 BARRICADE
- TURCK/TRAILER MOUNTED ATTENUATOR (TMA)
- PROTECTIVE VEHICLE

SPEED	SIGN SPACING (FT.)	TAPER LENGTH (FT.)		OPTIONAL	CHANNELIZER SPACING (FT.)	
TCP POSTED (MPH)	UNDIVIDED (A)	SHOULDER (T1)	LANE (T2)	BUFFER LENGTH (FT) (B)	TAPERS	BUFFER/WORK AREAS
0-45	350	150	540	360	40	80

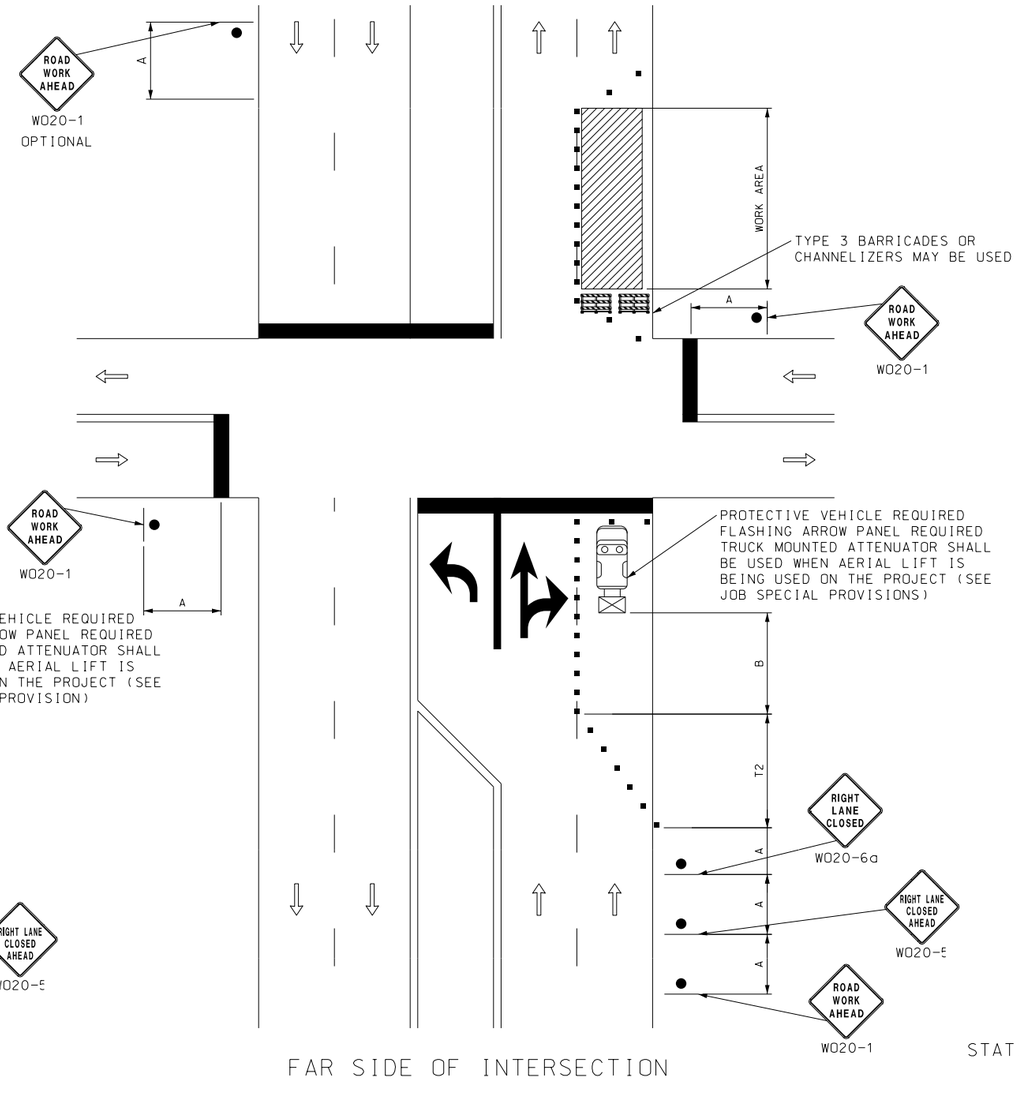
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NEAR SIDE OF INTERSECTION



FAR SIDE OF INTERSECTION

STATIONARY RIGHT LANE CLOSURE AT AN INTERSECTION

MOT LEGEND

- CONSTRUCTION AREA
- TSWP 4" PAVEMENT MARKING, SOLID WHITE
- TSYP 4" PAVEMENT MARKING, SOLID YELLOW
- TDSYP 4" PAVEMENT MARKING, DOUBLE SOLID YELLOW
- SIGN (SINGLE SIDED)
- MOVABLE BARRICADE
- CHANNELIZERS
- 24" WHITE STOP BAR
- FLOW ARROW

1. MOT CONSTRUCTION DETAIL SHEET: SIDEWALK CLOSURE. SEE SHEET 40
2. MOT CONSTRUCTION DETAIL SHEET: SIDE ROADS ENTERING WORK ZONES. SEE SHEET 39
3. MOT CONSTRUCTION DFETAIL SHEET: LANE CLOSURE FOR ONE LANE - TWO WAY TRAFFIC CONTROL. SEE SHEET 41

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MAINTENANCE OF TRAFFIC
MOT CONSTRUCTION DETAILS
SHEET 46 OF 53

LAYOUT	DRAWN	REVIEWED
11/2024	JAM	11/2024

STATE OF MISSOURI
DENNIS J KOSCIELSKI
NUMBER PE-2005000712
PROFESSIONAL ENGINEER

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DATE PREPARED 7/15/2025

ROUTE	STATE
231	MO
DISTRICT	SHEET NO.
SL	251

COUNTY: ST. LOUIS
JOB NO.: J6S3631
CONTRACT ID.:
PROJECT NO.:
BRIDGE NO.:

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DESCRIPTION	DATE

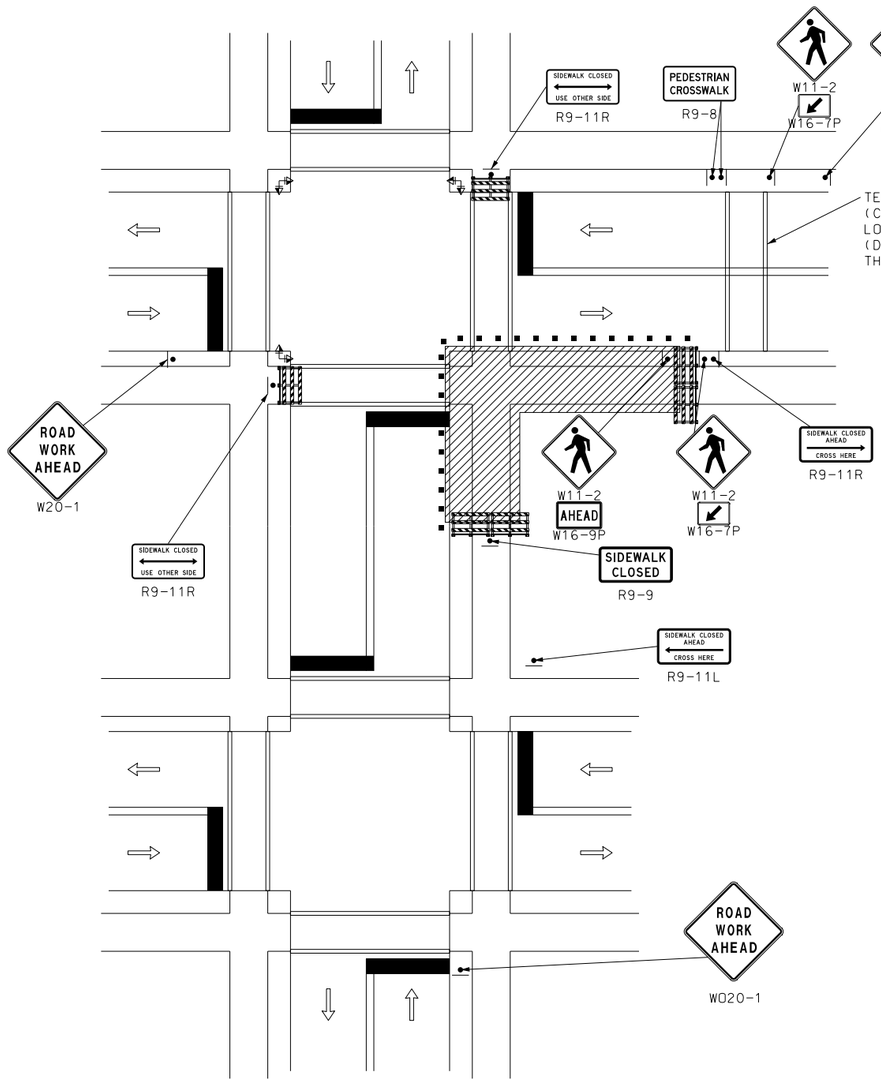
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NOT TO SCALE



NOTES:

IF CROSSWALKS OR OTHER PEDESTRIAN FACILITY IS IMPEDED OR CLOSED FROM CONSRUCTION, TEMPORARY FACILITIES SHALL BE PROVIDED WITH AT MINIMUM THE SAME ACCESSIBILITY FEATURES AS THE EXISTING FACILITIES.

STREET PARKING AT ALL TEMPORARY MIDBLOCK CROSSINGS SHALL NOT BE ALLOWED FOR 50 FEET IN ADVANCE OF THE CROSSWALK.

ALL CHANGED CROSWALK AREAS AND MIDBLOCK LOCATIONS HALL BE CONSIDERED TO INCLUDE TACTILE AND AUDIBLE INFORMATION DEVICES PER DIRECTION OF ENGINEER AS TO PROVIDE ADEQUATE FOR PEDESTRIANS WHO HAVE AUDIO OR VISUAL DISABILITIES.

PEDESTRIAN CONTROLLING TRAFFIC SIGNALS AND DETECTORS FOR CLOSED CROSSWALKS SHALL BE COVERED, DEACTIVATED, OR REMOVED.

TRAFFIC CONTROL LEGEND

- SIGN (SINGLE SIDED)
- WORK AREA
- CHANNELIZER
- TYPE 3 BARRICADE
- PEDESTRIAN SIGNAL

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CROSSWALK CLOSURE AND PEDESTRIAN DETOURS

MOT LEGEND

- CONSTRUCTION AREA
- TSWP 4" PAVEMENT MARKING, SOLID WHITE
- TSYP 4" PAVEMENT MARKING, SOLID YELLOW
- TDSYP 4" PAVEMENT MARKING, DOUBLE SOLID YELLOW
- SIGN (SINGLE SIDED)
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- FLOW ARROW

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MAINTENANCE OF TRAFFIC
MOT CONSTRUCTION DETAILS
SHEET 47 OF 53

	DATE	DESCRIPTION
LAYOUT	11/2024	
DRAWN	JAM 11/2024	
REVIEWED	JAM	

STATE OF MISSOURI
DENNIS J KOSCIELSKI
NUMBER PE-2005000712
PROFESSIONAL ENGINEER

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DATE PREPARED
7/15/2025

ROUTE	STATE
231	MO
DISTRICT	SHEET NO.
SL	252

COUNTY
ST. LOUIS

JOB NO.
J6S3631

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

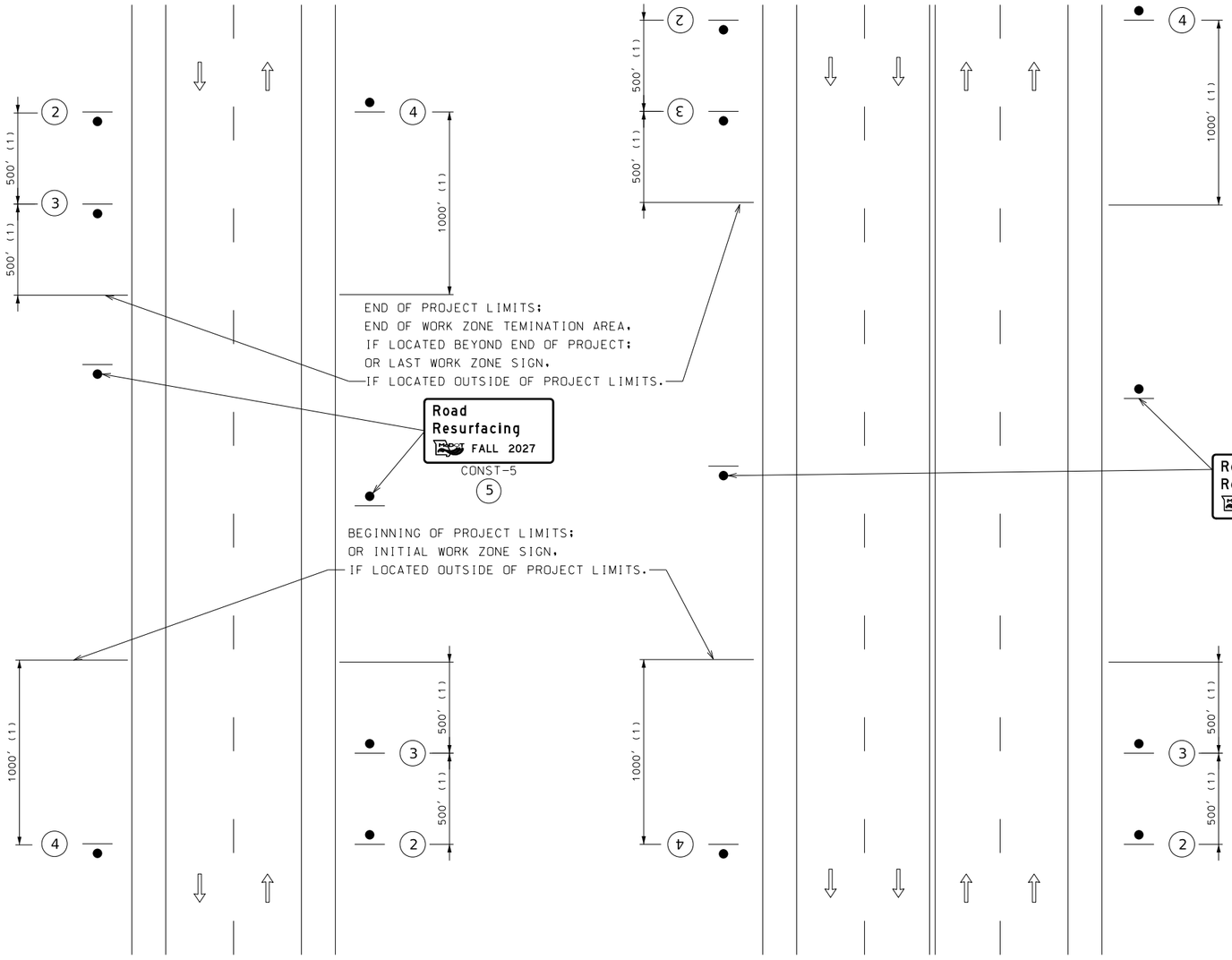
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MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

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St. Louis, Missouri 63101
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314.770.0467

NOT TO SCALE



TWO-LANE UNDIVIDED

MULTI-LANE UNDIVIDED

DISCLAIMER

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NOTES:

SIGN 2 AND 4 SHALL BE APPLIED FOR ALL ROAD WORK WITH LENGTH OF 2 MILES OR GREATER.

OTHER SIGNS INCLUDING DETOUR AND ALTERNATE ROUTE CAN BE PLACED OUTSIDE OF PROJECT LIMITS.

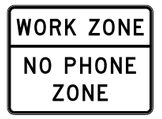
ALL SIGNS WHICH CONFLICT WITH TRAFFIC CONTROL SIGNING SHALL BE COVERED OR REMOVE, COMPLETE.

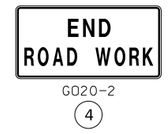
CONST-6-48 SIGN SHALL BE PLACED 500 FEET PRIOR TO PROJECT LIMITS OR ROAD WORK AHEAD SIGN OR ROAD WORK NEXT 3 MILES SIGN, WHICHEVER IS FURTHEST FROM BEGINNING OF PROJECT.

CONST-5-96 SIGN SHALL BE PLACED WITHIN PROJECT LIMITS, IN A VISIBLE AREA, AND SHALL NOT IMPEDE A SEQUENCE OF SIGNS. IF NO LOCATION WITHIN THE PROJECT IS AVAILABLE, SIGN MAY BE PLACED 500 FT IN ADVANCE OF CONST-6-48 SIGN.

(1) DISTANCE MAY BE ADJUSTED BASED ON FIELD CONDITIONS PER DIRECTION OF ENGINEER. ADDITIONAL SIGNING MAY BE NEEDED IF QUEUEING IS EXPECTED TO EXTEND BEYOND ADVANCED WARNING SIGNS.







BEGIN/END OF PROJECT SIGNING

MOT LEGEND

- CONSTRUCTION AREA
- TSWP 4" PAVEMENT MARKING, SOLID WHITE
- TSYP 4" PAVEMENT MARKING, SOLID YELLOW
- TDSYP 4" PAVEMENT MARKING, DOUBLE SOLID YELLOW
- SIGN (SINGLE SIDED)
- MOVABLE BARRICADE
- CHANNELIZERS
- 24" WHITE STOP BAR
- FLOW ARROW

1. MOT CONSTRUCTION DETAIL SHEET: SIDEWALK CLOSURE. SEE SHEET 40
2. MOT CONSTRUCTION DETAIL SHEET: SIDE ROADS ENTERING WORK ZONES. SEE SHEET 39
3. MOT CONSTRUCTION DFETAIL SHEET: LANE CLOSURE FOR ONE LANE - TWO WAY TRAFFIC CONTROL. SEE SHEET 41

NOTES:

1. CONTRACTOR IS RESPONSIBLE FOR ENSURING THAT ALL SIGNS AND INSTALLATIONS COMPLY WITH THE FULL EXTENT OF THE LATEST EDITION OF THE M.U.T.C.D.
2. CONTRACTOR SHALL FIELD ADJUST INSTALLATIONS. AS APPROVED BY THE ENGINEER.
3. REVIEW EPG 616.6.63 CHANNELIZING DEVICES FOR DIFFERENT TYPES AND GUIDELINES FOR THE DEVICES.
4. CONTRACTOR SHALL MAINTAIN ACCESS TO ALL DRIVEWAYS AT ALL TIMES.
5. WORK ZONE SIGNAGE AND TEMPORARY TRAFFIC CONTROL DEVICES NOT SHOWN WILL FOLLOW SECTION 616 OF THE MODOT STANDARD SPECIFICATIONS AND THE TYPICAL APPLICATIONS SHOWN IN PLANS.
6. EXISTING SIGNS WITHIN THE TEMPORARY TRAFFIC CONTROL ZONE THAT CONFLICT WITH TEMPORARY SIGNAGE SHALL BE COVERED.
7. EXISTING PAVEMENT MARKING IN CONFLICT WITH TEMPORARY PAVEMENT MARKINGS SHALL BE REMOVED.
8. EXISTING STOP SIGNS IN CONFLICT WITH TEMPORARY STOP SIGNS SHALL BE COVERED.
9. WORK ZONE SIGNS SHALL BE PLACED TO KEEP PEDESTRIAN ROUTES OPEN. MINIMUM 48" CLEAR SHALL BE PROVIDED ON ALL PEDESTRIAN ACCESS ROUTES.
10. COVER PERMANENT SIGNING IN CONFLICT WITH WORK ZONE SIGNING. FOR SIGNING REMOVAL SEE SIGNAGE PLANS.
11. ALL BUS STOP LOCATIONS AND SIGN FACES SHALL REMAIN UIP OR PROVIDED ALTERNATIVE AS APPROVED BY ENGINEER AND METROBUS.
12. AT LEAST ONE SIDEWALK SHALL BE OPEN AT ALL TIMES WITH ACCESSIBLE CROSSING LOCATIONS.

MAINTENANCE OF TRAFFIC
MOT CONSTRUCTION DETAILS
SHEET 48 OF 53

	DESCRIPTION	DATE
LAYOUT		11/2024
DRAWN		JAM 11/2024
REVIEWED		JAM

STATE OF MISSOURI
DENNIS J KOSCIELSKI
NUMBER PE-2005000712
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED 7/15/2025

ROUTE	STATE
231	MO
DISTRICT	SHEET NO.
SL	253

COUNTY: ST. LOUIS
JOB NO.: J6S3631
CONTRACT ID.:
PROJECT NO.:
BRIDGE NO.:

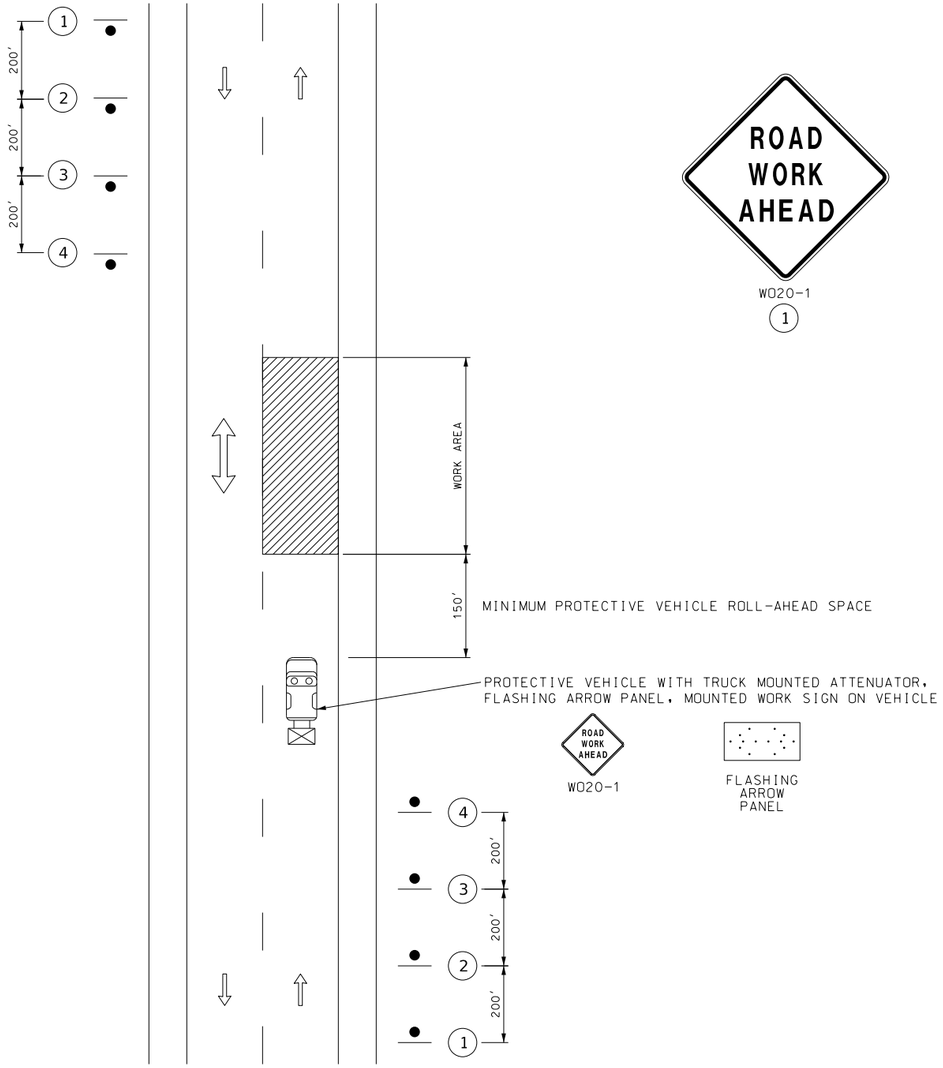
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NOT TO SCALE



WO20-1
(1)



WO20-4
(2)



WO3-4
(3)



WO20-7a
(4)

TRAFFIC CONTROL LEGEND

- SIGN (SINGLE SIDED)
- WORK AREA
- PROTECTIVE VEHICLE

SPEED	SIGN SPACING (FT.)
TCP POSTED (MPH)	UNDIVIDED
0-35	200

NOTES:

FLASHIING ARROW PANELS SHALL BE OPERATED IN CAUTION MODE.

CONTRACTOR MAY PROVIDE ADDITIONAL PROTECTIVE VEHICLES PER APPROCAL OF ENGINEER. ADDITIONAL TRUCKS MUST BE EQUIPPED WITH PROPER WARNING DEVICES.

FLAGGER SHALL BE POSITIONED TO PROVIDE MOST VALUE TO VEHICULAR TRAFFIC AND WORK CREW.

HIGH-INTENSITY FLASHING, OSCILLATING, ROTATING, OR STROBE LIGHTS SHALL BE USED ON ALL PROTECTIVE TRUCK AND WORK VEHICLES. VEHICLE HAZARD WARNING SIGNALS MAY BE USED IN ADDITION TO, BUT NOT IN PLACE OF, LIGHTS PREVIOUSLY MENTIONED.

VEHICLE-MOUNTED SIGNS SHALL BE MOUNTED TO HAVE SIGN FACE NOT PARTIALLY OR FULLY OBSCURED BY ANY EQUIPMENT OR SUPPLIES. WHEN WORK IS NOT IN PROGRESS, VEHICLE-MOUNTED SIGN LEGEND SHALL BE COVERED OR TURNED FROM VIEW.

ADVANCED WARNING RAIL SYSTEM SHALL BE INSTALLED ON THE FIRST ROAD WORK AHEAD (WO20-1) SIGN ON THE PRIMARY ROADWAY.

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MOBILE OPERATION ON
TWO-LANE HIGHWAY

MOT LEGEND

- CONSTRUCTION AREA
- TSWP 4" PAVEMENT MARKING, SOLID WHITE
- TSYP 4" PAVEMENT MARKING, SOLID YELLOW
- TDSYP 4" PAVEMENT MARKING, DOUBLE SOLID YELLOW
- SIGN (SINGLE SIDED)
- MOVABLE BARRICADE
- CHANNELIZERS
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- FLOW ARROW

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MAINTENANCE OF TRAFFIC
MOT CONSTRUCTION DETAILS
SHEET 49 OF 53

LAYOUT 11/2024
DRAWN JAM 11/2024
REVIEWED JAM

STATE OF MISSOURI
DENNIS J KOSCIELSKI
NUMBER PE-2005000712
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED 7/22/2025
ROUTE 231
STATE MO
DISTRICT SL
SHEET NO. 254
COUNTY ST. LOUIS
JOB NO. J6S3631
CONTRACT ID.
PROJECT NO.
BRIDGE NO.

DESCRIPTION
DATE

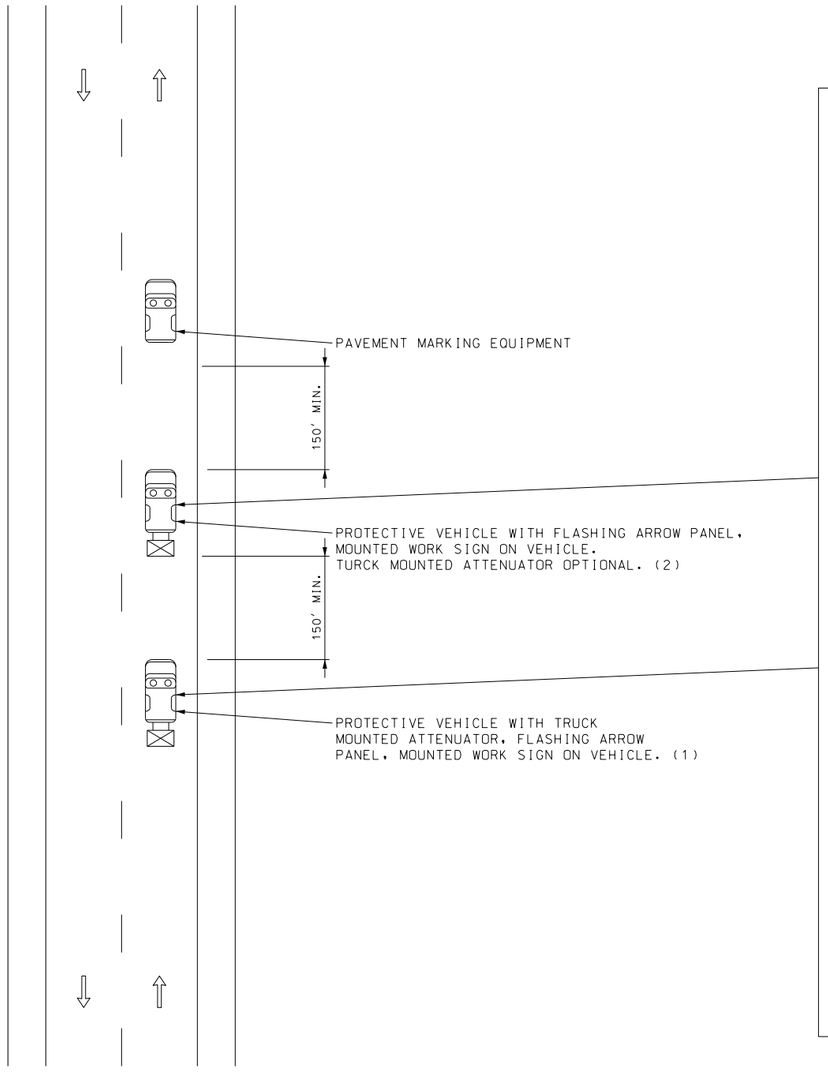
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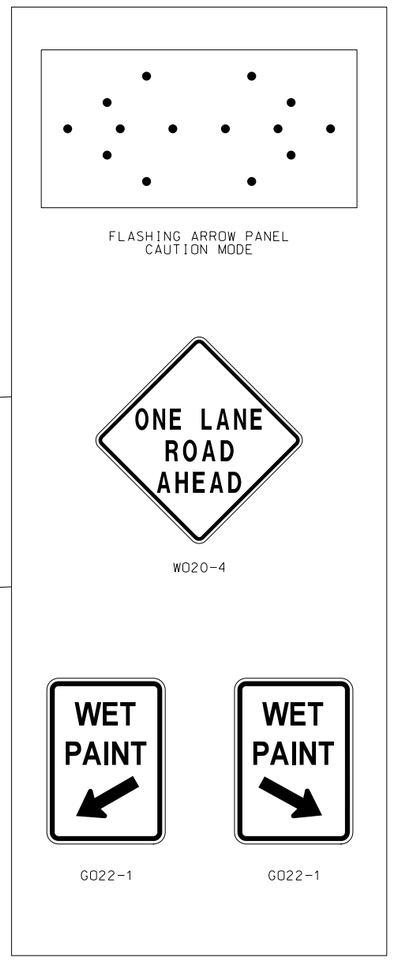
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MOBILE OPERATION ON TWO-LANE HIGHWAY



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WET PAINT SIGNS SHALL BE INSTALLED INDICATING THE SIDE PAVEMENT MARKING MATERIAL IS APPLIED. AT OPTION OF CONTRACTOR, A FRONT FACING WET PAINT SIGN MAY BE INSTALLED ON THE PAVEMENT MARKING EQUIPMENT.

(1) ADVANCED WARNING TRUCK TO BE POSITIONED AT NO TRACK POINT OF PAVEMENT MARKING MATERIAL OR 150FT MINIMUM SPACING, WHICHEVER IS GREATER.

(2) FOR TWO-LANE UNDIVIDED HIGHWAY APPLICATIONS: TRUCK IS OPTIONAL IF PAVEMENT MARKING EQUIPMENT IS MOUNTED WITH VEHICLE-MOUNTED SIGNS AND FLASHING ARROW PANEL.

CENTER LINE/EDGE LINE STRIPING ON TWO-LANE HIGHWAYS

MOT LEGEND

- CONSTRUCTION AREA
- TSWP 4" PAVEMENT MARKING, SOLID WHITE
- TSYP 4" PAVEMENT MARKING, SOLID YELLOW
- TDSYP 4" PAVEMENT MARKING, DOUBLE SOLID YELLOW
- SIGN (SINGLE SIDED)
- MOVABLE BARRICADE
- CHANNELIZERS
- 24" WHITE STOP BAR
- FLOW ARROW
- (1) MOT CONSTRUCTION DETAIL SHEET: SIDEWALK CLOSURE. SEE SHEET 40
- (2) MOT CONSTRUCTION DETAIL SHEET: SIDE ROADS ENTERING WORK ZONES. SEE SHEET 39
- (3) MOT CONSTRUCTION DFETAIL SHEET: LANE CLOSURE FOR ONE LANE - TWO WAY TRAFFIC CONTROL. SEE SHEET 41

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12. AT LEAST ONE SIDEWALK SHALL BE OPEN AT ALL TIMES WITH ACCESSIBLE CROSSING LOCATIONS.

MAINTENANCE OF TRAFFIC
MOT CONSTRUCTION DETAILS
SHEET 50 OF 53

	DATE	DESCRIPTION
LAYOUT	11/2024	
DRAWN	JAM	
REVIEWED	11/2024	

STATE OF MISSOURI
DENNIS J KOSCIELSKI
NUMBER PE-2005000712
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED 7/15/2025

ROUTE	STATE
231	MO
DISTRICT	SHEET NO.
SL	255

COUNTY: ST. LOUIS
JOB NO.: J6S3631
CONTRACT ID.:
PROJECT NO.:
BRIDGE NO.:

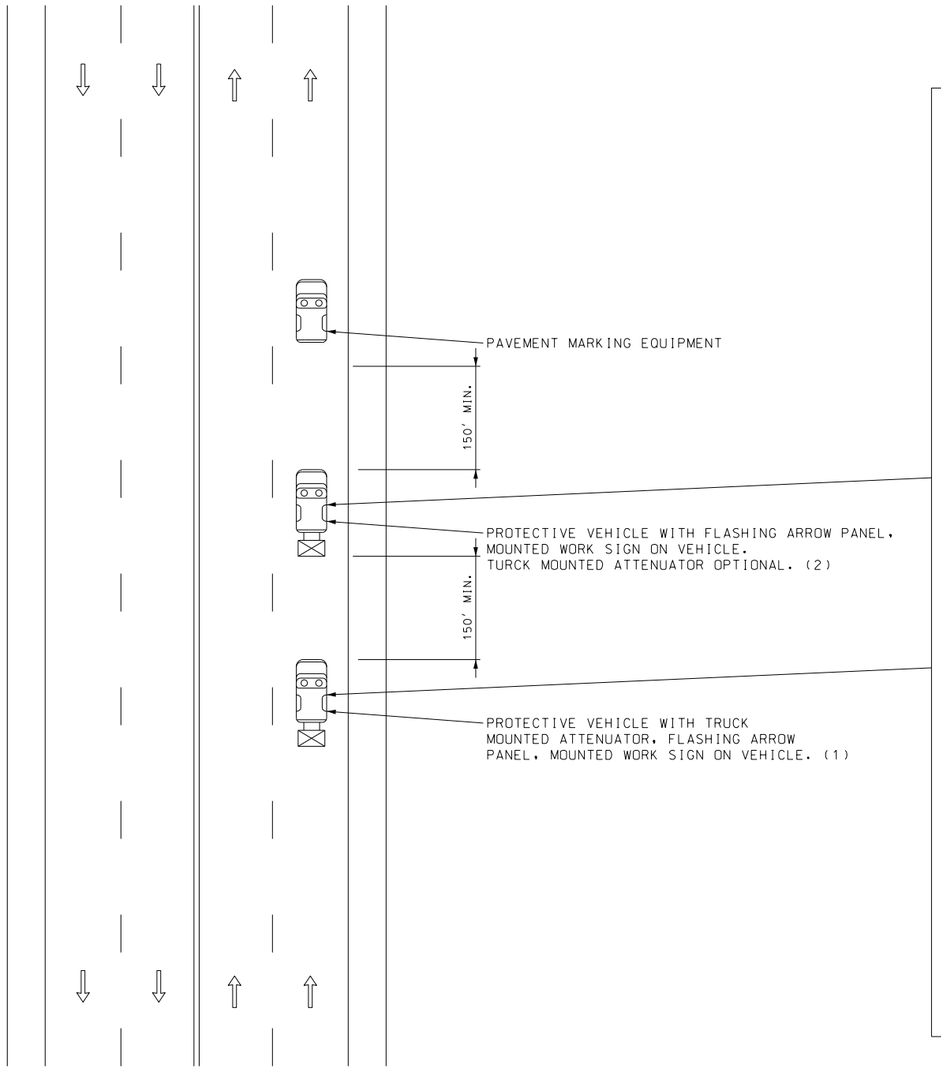
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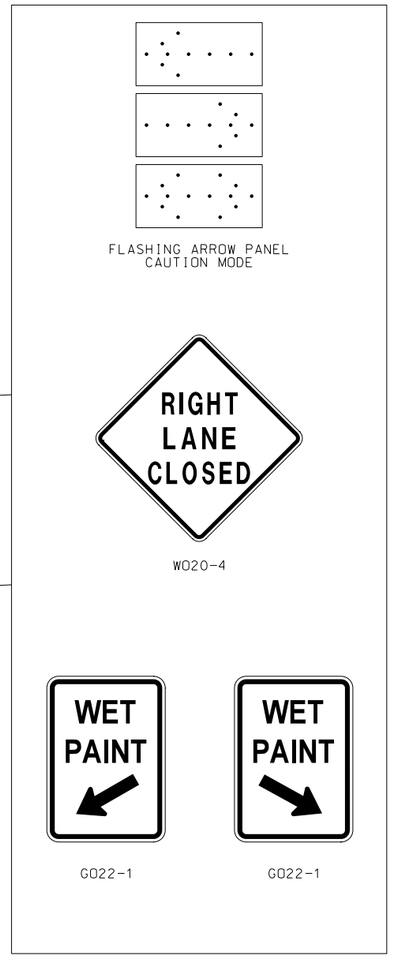
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NOT TO SCALE



MULTI-LANE UNDIVIDED HIGHWAY



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WET PAINT SIGNS SHALL BE INSTALLED INDICATING THE SIDE PAVEMENT MARKING MATERIAL IS APPLIED. AT OPTION OF CONTRACTOR, A FRONT FACING WET PAINT SIGN MAY BE INSTALLED ON THE PAVEMENT MARKING EQUIPMENT.

FLASHING ARROW SIGNAL SHALL BE AT MINIMUM TYPE B AND 60" X 30".

WHEN A FREEWAY LANE IS CLOSED, A FLASHING ARROW SIGNAL SHALL BE USED. IF MULTIPLE LANES ARE CLOSED, A FLASHING AROW SIGNAL SHALL BE PLACED FOR EACH CLOSED LANE.

VEHICLE-MOUNTED SIGNS SHALL BE MOUNTED TO HAVE SIGN FACE NOT PARTIALLY OR FULLY OBSCURED BY ANY EQUIPMENT OR SUPPLIES. WHEN WORK IS NOT IN PROGRESS, VEHICLE-MOUNTED SIGN LEGEND SHALL BE COVERED OR TURNED FROM VIEW.

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(2) FOR TWO-LANE UNDIVIDED HIGHWAY APPLICATIONS: TRUCK IS OPTIONAL IF PAVEMENT MARKING EQUIPMENT IS MOUNTED WITH VEHICLE-MOUNTED SIGNS AND FLASHING ARROW PANEL.

CENTERLINE/LANE LINE STRIPING ON MULTI-LANE UNDIVIDED HIGHWAYS

MOT LEGEND

- CONSTRUCTION AREA
- TSWP 4" PAVEMENT MARKING, SOLID WHITE
- TSYP 4" PAVEMENT MARKING, SOLID YELLOW
- TDSYP 4" PAVEMENT MARKING, DOUBLE SOLID YELLOW
- SIGN (SINGLE SIDED)
- MOVABLE BARRICADE
- CHANNELIZERS
- 24" WHITE STOP BAR
- FLOW ARROW

1. MOT CONSTRUCTION DETAIL SHEET: SIDEWALK CLOSURE. SEE SHEET 40
2. MOT CONSTRUCTION DETAIL SHEET: SIDE ROADS ENTERING WORK ZONES. SEE SHEET 39
3. MOT CONSTRUCTION DFETAIL SHEET: LANE CLOSURE FOR ONE LANE - TWO WAY TRAFFIC CONTROL. SEE SHEET 41

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MAINTENANCE OF TRAFFIC
MOT CONSTRUCTION DETAILS
SHEET 51 OF 53

	DATE	DESCRIPTION
LAYOUT	11/2024	
DRAWN	JAM	
REVIEWED	11/2024	

STATE OF MISSOURI
DENNIS J KOSCIELSKI
NUMBER PE-2005000712
PROFESSIONAL ENGINEER

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DATE PREPARED 7/15/2025

ROUTE	STATE
231	MO
DISTRICT	SHEET NO.
SL	256

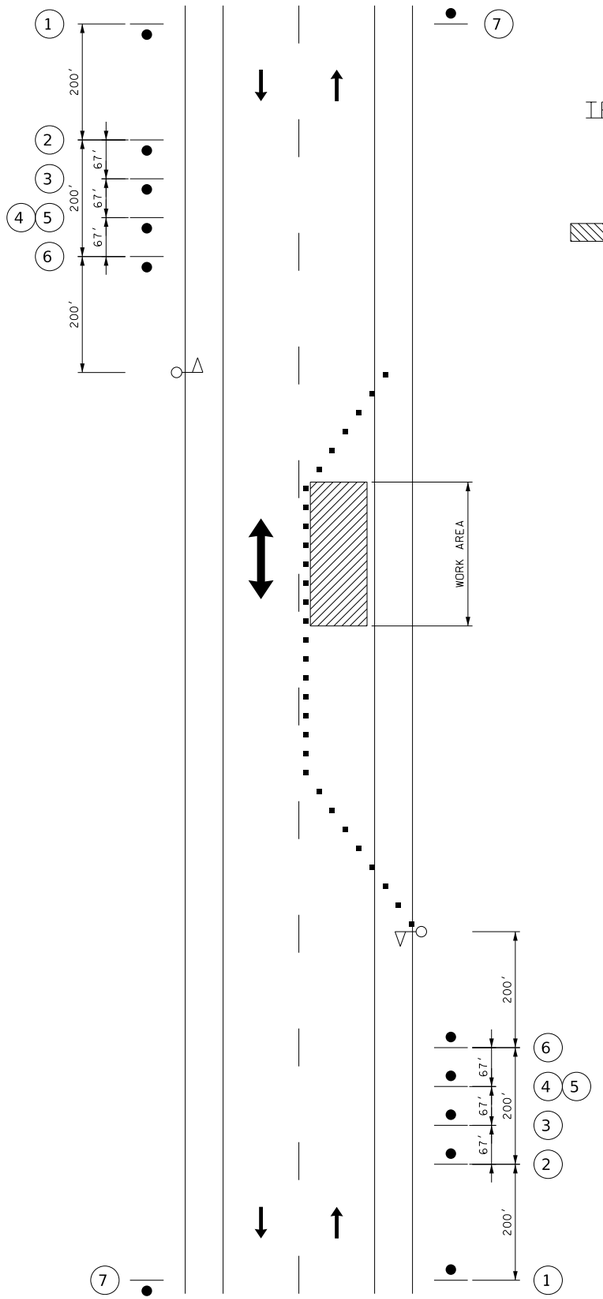
COUNTY: ST. LOUIS
JOB NO.: J6S3631
CONTRACT ID.:
PROJECT NO.:
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TRAFFIC CONTROL LEGEND

- SIGN (SINGLE SIDED)
- WORK ZONE
- CHANNELIZER
- FLAGGER

NOTES:

THIS DETAIL MAY ALSO BE APPLIED WITH AUTOMATED FLAGGER ASSISTANCE DEVICES (AFAD), PORTABLE SIGNAL FLAGGING DEVICES (PFSD), AND TRAFFIC CONTROL SIGNALS PER APPROVAL OF ENGINEER.

W03-5 SIGN SHALL BE APPLIED IN ALL LOCATIONS WHERE THE APPROVED SPEED REDUCTION IS GREATER THAN 10 MPH BELOW THE EXISTING OR POSTED SPEED LIMIT.

REDUCED SPEED LIMIT SIGNING SHALL BE COMPLETELY COVERED, REMOVED, OR TURNED TROM TRAFFIC WHEN ROAD CONDITIONS NO LONGER REQUIRE REDUCED SPEED.

THIS DETAIL PROVIDES LOCATION AND SEQUENCING FOR WORK ZONE SPEED LIMIT SIGNS. REFER TO APPROPRIATE TYPICAL APPLICATION FOR LOCATION AND SPACING OF ALL OTHER TEMPORARY TRAFFIC CONTROL AS REQUIRED.

NOT TO SCALE

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W20-1
(1)



W020-4
(2)



W03-5
(3)



R2-1
(4)

WORK ZONE
SPEED LIMIT



G020-5aP
(5)



W020-7a
(6)



R2-1
(7)

POSTED
SPEED LIMIT

WORK ZONE SPEED LIMIT
DEDUCTION SIGNING
LOCATION AND SEQUENCING
ON A TWO-LANE ROAD
WITH LANE CLOSURE
AND FLAGGERS

MOT LEGEND

- CONSTRUCTION AREA
- TSWP 4" PAVEMENT MARKING, SOLID WHITE
- TSYP 4" PAVEMENT MARKING, SOLID YELLOW
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- FLOW ARROW

(1) MOT CONSTRUCTION DETAIL SHEET: SIDEWALK CLOSURE. SEE SHEET 40

(2) MOT CONSTRUCTION DETAIL SHEET: SIDE ROADS ENTERING WORK ZONES. SEE SHEET 39

(3) MOT CONSTRUCTION DFETAIL SHEET: LANE CLOSURE FOR ONE LANE - TWO WAY TRAFFIC CONTROL. SEE SHEET 41

NOTES:

1. CONTRACTOR IS RESPONSIBLE FOR ENSURING THAT ALL SIGNS AND INSTALLATIONS COMPLY WITH THE FULL EXTENT OF THE LATEST EDITION OF THE M.U.T.C.D.
2. CONTRACTOR SHALL FIELD ADJUST INSTALLATIONS. AS APPROVED BY THE ENGINEER.
3. REVIEW EPG 616.6.63 CHANNELIZING DEVICES FOR DIFFERENT TYPES AND GUIDELINES FOR THE DEVICES.
4. CONTRACTOR SHALL MAINTAIN ACCESS TO ALL DRIVEWAYS AT ALL TIMES.
5. WORK ZONE SIGNAGE AND TEMPORARY TRAFFIC CONTROL DEVICES NOT SHOWN WILL FOLLOW SECTION 616 OF THE MODOT STANDARD SPECIFICATIONS AND THE TYPICAL APPLICATIONS SHOWN IN PLANS.
6. EXISTING SIGNS WITHIN THE TEMPORARY TRAFFIC CONTROL ZONE THAT CONFLICT WITH TEMPORARY SIGNAGE SHALL BE COVERED.
7. EXISTING PAVEMENT MARKING IN CONFLICT WITH TEMPORARY PAVEMENT MARKINGS SHALL BE REMOVED.
8. EXISTING STOP SIGNS IN CONFLICT WITH TEMPORARY STOP SIGNS SHALL BE COVERED.
9. WORK ZONE SIGNS SHALL BE PLACED TO KEEP PEDESTRIAN ROUTES OPEN. MINIMUM 48" CLEAR SHALL BE PROVIDED ON ALL PEDESTRIAN ACCESS ROUTES.
10. COVER PERMANENT SIGNING IN CONFLICT WITH WORK ZONE SIGNING. FOR SIGNING REMOVAL SEE SIGNAGE PLANS.
11. ALL BUS STOP LOCATIONS AND SIGN FACES SHALL REMAIN UIP OR PROVIDED ALTERNATIVE AS APPROVED BY ENGINEER AND METROBUS.
12. AT LEAST ONE SIDEWALK SHALL BE OPEN AT ALL TIMES WITH ACCESSIBLE CROSSING LOCATIONS.

MAINTENANCE OF TRAFFIC
MOT CONSTRUCTION DETAILS
SHEET 52 OF 53

	DATE	DESCRIPTION
LAYOUT	11/2024	
DRAWN	JAM	
REVIEWED	11/2024	

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

STATE OF MISSOURI
DENNIS J KOSCIELSKI
NUMBER PE-2005000712
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED 7/17/2025

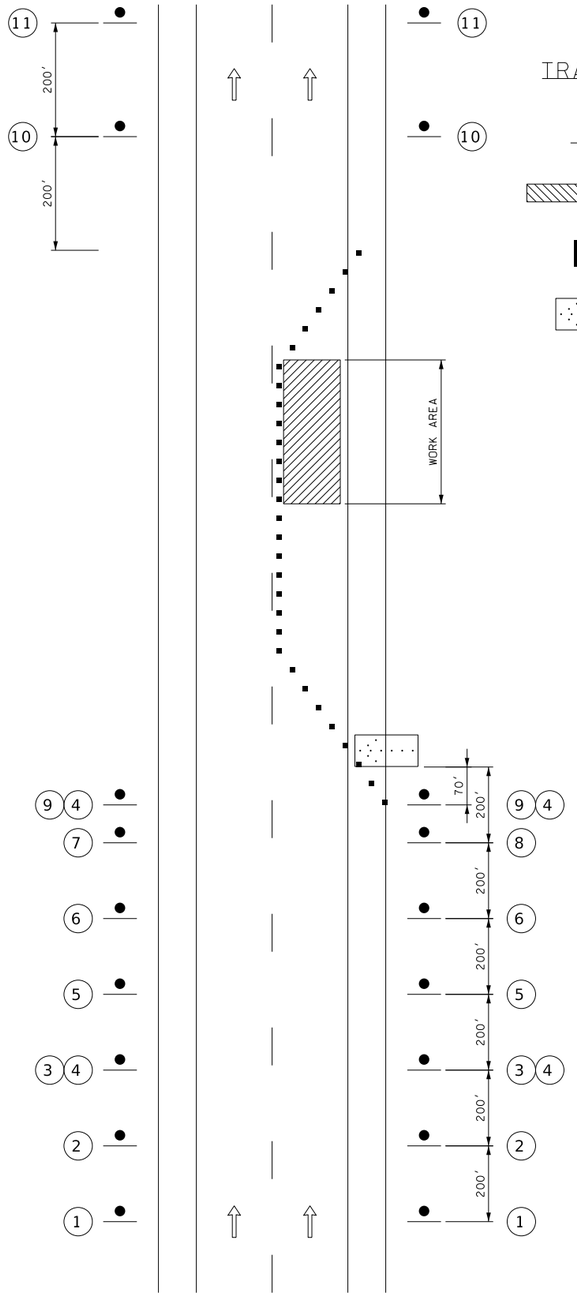
ROUTE	STATE
231	MO
DISTRICT	SHEET NO.
SL	257

COUNTY: ST. LOUIS
JOB NO.: J6S3631
CONTRACT ID.:
PROJECT NO.:
BRIDGE NO.:

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

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TRAFFIC CONTROL LEGEND

- SIGN (SINGLE SIDED)
- WORK AREA
- CHANNELIZER
- FLASHING ARROW PANEL

NOT TO SCALE

NOTES:

THIS DETAIL MAY BE APPLIED FOR SINGLE LOCATION WORK SUCH AS LOCALIZED PAVEMENT REPAIR OR PIPE REPAIR.

THIS DETAIL MAY BE APPLIED FOR AN ENTIRE WORK ZONE WITH A DECREASED SPEED, FOR EXAMPLE, MULTI-LANE APPLICATIONS.

W03-5 SIGN SHALL BE APPLIED IN ALL LOCATIONS WHERE THE APPROVED SPEED REDUCTION IS GREATER THAN 10 MPH BELOW THE EXISTING OR POSTED SPEED LIMIT.

R2-1 WORK ZONE SPEED LIMIT SIGN (9) MAY BE RELOCATED UPSTREAM IF DEEMED NECESSARY BY THE DISTRICT FOR ADVANCE WARNING OF SPEED LIMIT.

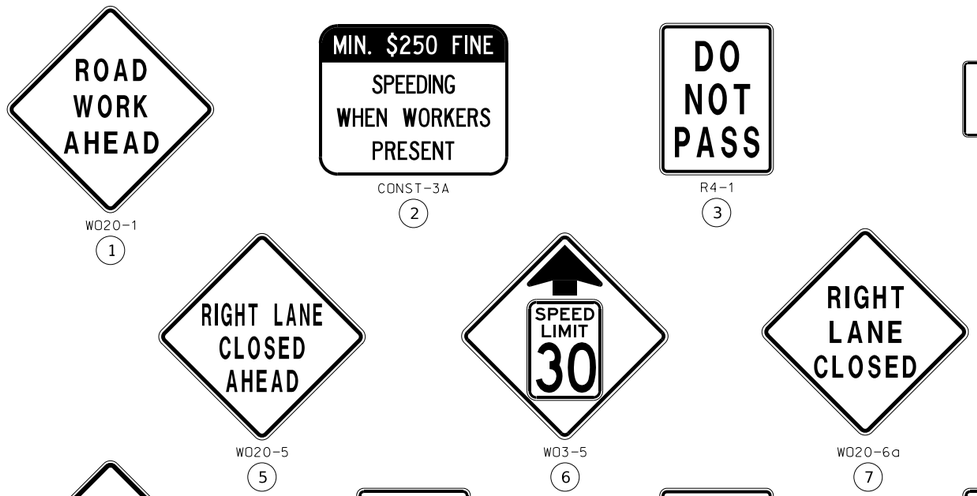
SIGNS SHALL ONLY BE APPLIED IN EACH DIRECTION ON THE RIGHT SIDE FOR UNDIVIDED ROADWAYS.

REDUCED SPEED LIMIT SIGNING SHALL BE COMPLETELY COVERED, REMOVED, OR TURNED TROM TRAFFIC WHEN ROAD CONDITIONS NO LONGER REQUIRE REDUCED SPEED.

R2-1 SPEED LIMIT SIGN (11) SHALL BE INSTALLED AT THE END OF THE REDUCED SPEED AREA IF NO ADDITIONAL SPEED REDUCTION OR EXISTING SPEED LIMIT SIGN IS LOCATED WITHIN THE NEXT ONE HALF MILE.

THIS DETAIL PROVIDES LOCATION AND SEQUENCING FOR WORK ZONE SPEED LIMIT SIGNS. REFER TO APPROPRIATE DETAIL FOR LOCATION.
AND SPACING OF ALL OTHER TEMPORARY TRAFFIC CONTROL AS REQUIRED.

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WORK ZONE SPEED LIMIT

NORMAL SPEED LIMIT

WORK ZONE SPEED LIMIT REDUCTION SIGNING LOCATION AND SEQUINCING WITH ADVANCE WARNING AREA AND WORK ZONE FINE SIGNING

MOT LEGEND

- CONSTRUCTION AREA
- TSWP 4" PAVEMENT MARKING, SOLID WHITE
- TSYP 4" PAVEMENT MARKING, SOLID YELLOW
- TDSYP 4" PAVEMENT MARKING, DOUBLE SOLID YELLOW
- SIGN (SINGLE SIDED)
- MOVABLE BARRICADE
- CHANNELIZERS
- 24" WHITE STOP BAR
- FLOW ARROW

1. MOT CONSTRUCTION DETAIL SHEET: SIDEWALK CLOSURE. SEE SHEET 40
2. MOT CONSTRUCTION DETAIL SHEET: SIDE ROADS ENTERING WORK ZONES. SEE SHEET 39
3. MOT CONSTRUCTION DFETAIL SHEET: LANE CLOSURE FOR ONE LANE – TWO WAY TRAFFIC CONTROL. SEE SHEET 41

NOTES:
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MAINTENANCE OF TRAFFIC
MOT CONSTRUCTION DETAILS
SHEET 53 OF 53

	DESCRIPTION	DATE
LAYOUT		
DRAWN	JAM	11/2024
REVIEWED	JAM	11/2024

STATE OF MISSOURI
DENNIS J KOSCIELSKI
NUMBER PE-2005000712
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED 7/15/2025

ROUTE	STATE
231	MO
DISTRICT	SHEET NO.
SL	258

COUNTY ST. LOUIS
JOB NO. J6S3631
CONTRACT ID.
PROJECT NO.
BRIDGE NO.

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MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
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29H510872
2923 TELEGRAPH RD
N/F
HOPE VINEYARD CHURCH
DB 20275 PG 1656

HOPE VINEYARD CHURCH

29H510630
2909 TELEGRAPH RD
N/F
EBB PROPERTIES LLC
DB 22908 PG 542

TELEGRAPH ROAD PHYSICAL THERAPY

FRANRU LN

29H510894
515 FRANRU LN
N/F
SYLVAN SPRINGS ASSOCIATES LP
DB 23928 PG 3080

SYLVAN SPRINGS SENIOR APARTMENTS

29H230442
2878 TELEGRAPH RD
N/F
LJC COMMERCIAL LLC
DB 23714 PG 80

SENTINEL EMERGENCY SOLUTIONS

29H510805
2866 TELEGRAPH RD
N/F
LORCOR LLC
DB 17566 PG 3781

GALAXY VAPORS
SUBWAY
SALON JB
ROSE NAILS & SPA
CAPTAIN Z'S

29H510814
2858 TELEGRAPH RD
N/F
2858 TELEGRAPH LLC
DB 19789 PG 2706

29H510784
2856 TELEGRAPH RD
N/F
LESSER, JAMES & SIMPSON, TABITHA A.
DB 17311 PG 3552

29H510696
2854 TELEGRAPH RD
N/F
PROSSER, CHARLES A. & CYNTHIA D., H/W
DB 23912 PG 1366

RTE. 231 / TELEGRAPH RD

℄ RTE. 231 / TELEGRAPH RD

BEGIN PROJECT
STA. 13+72.50

MATCHLINE
STA. 17+75.00

STA. 13+72.50 · STA. 13+76 · STA. 14+00 · STA. 14+04 · STA. 14+32 · STA. 14+60 · STA. 14+64 · STA. 15+20 · STA. 15+51 · STA. 16+01 · STA. 16+02 · STA. 16+15 · STA. 16+21 · STA. 16+47 · STA. 16+51 · STA. 16+57 · STA. 16+63 · STA. 16+75 · STA. 16+85 · STA. 17+27 · STA. 17+37 · STA. 17+71

SILT FENCE · EXIST. R/W · PERM. ESMT. · TEST · SS · UT · OE · PP · G · D1 · C · R · 15 · 30

EROSION CONTROL LEGEND

- SILT FENCE
- TEMPORARY SEEDING AND MULCH
- CURB INLET CHECK
- ROCK DITCH CHECK
- PERMANENT EASEMENT
- EXISTING RIGHT OF WAY
- TEMPORARY EASEMENT
- NEW RIGHT OF WAY

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SCALE
0 20 40 60

EROSION CONTROL PLAN SHEETS
SHEET 1 OF 31

LAYOUT	JAM	11/2024
DRAWN	JAM	11/2024
REVIEWED		

STATE OF MISSOURI
DENNIS J KOSCIELSKI
NUMBER PE-2005000712
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED
7/25/2025

ROUTE	STATE
231	MO
DISTRICT	SHEET NO.
SL	259

COUNTY
ST. LOUIS

JOB NO.
J6S3631

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION	DATE

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29H510894
515 FRANRU LN
N/F
SYLVAN SPRINGS ASSOCIATES LP
DB 23928 PG 3080

SYLVAN SPRINGS SENIOR APARTMENTS

29H510432
2843 TELEGRAPH RD
N/F
TAYLOR, CHARLES
DB 23754 PG 3621

29H510773
2841 TELEGRAPH RD
N/F
RANDAZZO, VITO A.
DB 23466 PG 306

29H510542
2833 TELEGRAPH RD
N/F
THE LEMAY CHURCH OF GOD
DB UNKNOWN

CORNERSTONE COMMUNITY CHURCH OF GOD

STA. 17+75.00
MATCHLINE

STA. 17+94
PERM. ESMT.
STA. 17+76
STA. 18+49
STA. 18+71
STA. 18+76
STA. 18+64
STA. 20+46
STA. 20+63
TEMP. ESMT.
STA. 21+50
STA. 21+61
STA. 21+81
STA. 21+98
SILT FENCE
EXIST. R/W
OE
UT
A
C
DI
PP

℄ RTE. 231 / TELEGRAPH RD

RTE. 231 / TELEGRAPH RD

STA. 22+75.00
MATCHLINE

SYLVANWOOD TERRACE

STA. 18+07
STA. 18+32
STA. 19+52
STA. 19+81
STA. 20+92
STA. 21+03
STA. 21+26
STA. 21+48
STA. 21+52
STA. 22+15
STA. 22+17
STA. 22+34
STA. 22+41

29H510751
2852 TELEGRAPH RD
N/F
NUNEZ, JOLMAN E. &
PERDOMA, KELIN
DB 23442 PG 2472

29H510740
2850 TELEGRAPH RD
N/F
JACQUOT, DOUGLAS
& GAIL L., H/W
DB 14683 PG 1447

EXIST. 10' PERM. ESMT.

29H510333
2844 TELEGRAPH RD
N/F
PACQUET, FRANCES A.
DB 15951 PG 1134

29H510366
2842 TELEGRAPH RD
N/F
SOMMERS, MICHAEL A.
DB 11819 PG 829

SYLVIA DR

29H510410
2838 TELEGRAPH RD
N/F
GODFREY, MARIAN
DB 11699 PG 1816

29H510454
2834 TELEGRAPH RD
N/F
CARBO, MARK N.
DB 8205 PG 2164

29H510704
2830 TELEGRAPH RD
N/F
CRAIG, RICHARD H.
DB 18323 PG 5102

EROSION CONTROL LEGEND

- SILT FENCE
- TEMPORARY SEEDING AND MULCH
- (C) CURB INLET CHECK
- (R) ROCK DITCH CHECK
- PERMANENT EASEMENT
- EXISTING RIGHT OF WAY
- TEMPORARY EASEMENT
- NEW RIGHT OF WAY

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SCALE
0 20 40 60

EROSION CONTROL PLAN SHEETS
SHEET 2 OF 31

LAYOUT	JAM	11/2024
DRAWN	JAM	11/2024
REVIEWED		

STATE OF MISSOURI
DENNIS J KOSCIELSKI
NUMBER PE-2005000712
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED
7/25/2025

ROUTE	STATE
231	MO
DISTRICT	SHEET NO.
SL	260

COUNTY
ST. LOUIS

JOB NO.
J6S3631

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

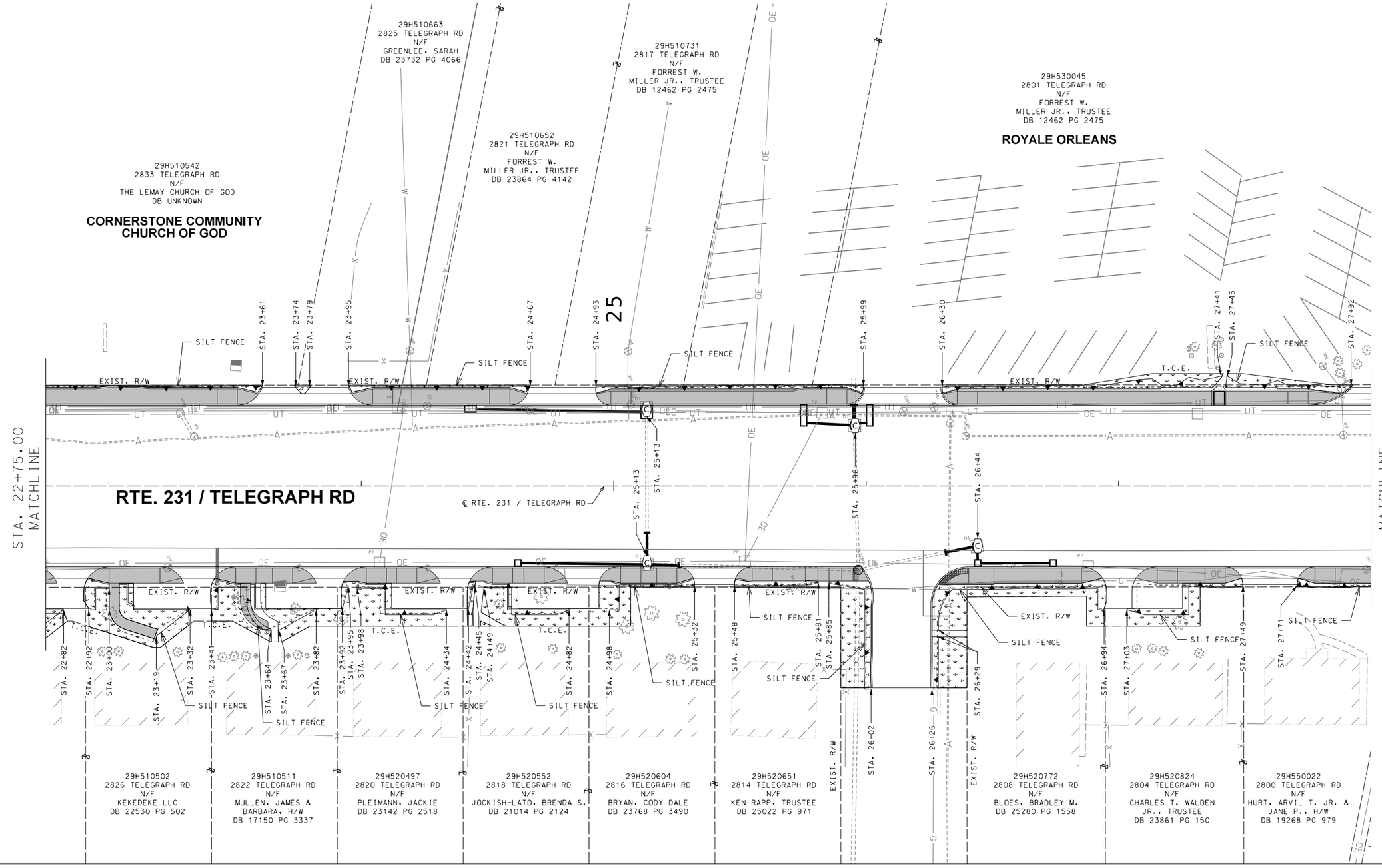
DESCRIPTION	DATE

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EROSION CONTROL LEGEND

- SILT FENCE
- TEMPORARY SEEDING AND MULCH
- CURB INLET CHECK
- ROCK DITCH CHECK
- PERMANENT EASEMENT
- EXISTING RIGHT OF WAY
- TEMPORARY EASEMENT
- NEW RIGHT OF WAY

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SCALE
0 20 40 60

EROSION CONTROL PLAN SHEETS
SHEET 3 OF 31

LAYOUT	JAM	11/2024
DRAWN	JAM	11/2024
REVIEWED		

STATE OF MISSOURI
DENNIS J KOSCIELSKI
NUMBER PE-2005000712
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED
7/25/2025

ROUTE	STATE
231	MO
DISTRICT	SHEET NO.
SL	261

COUNTY
ST. LOUIS

JOB NO.
J6S3631

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

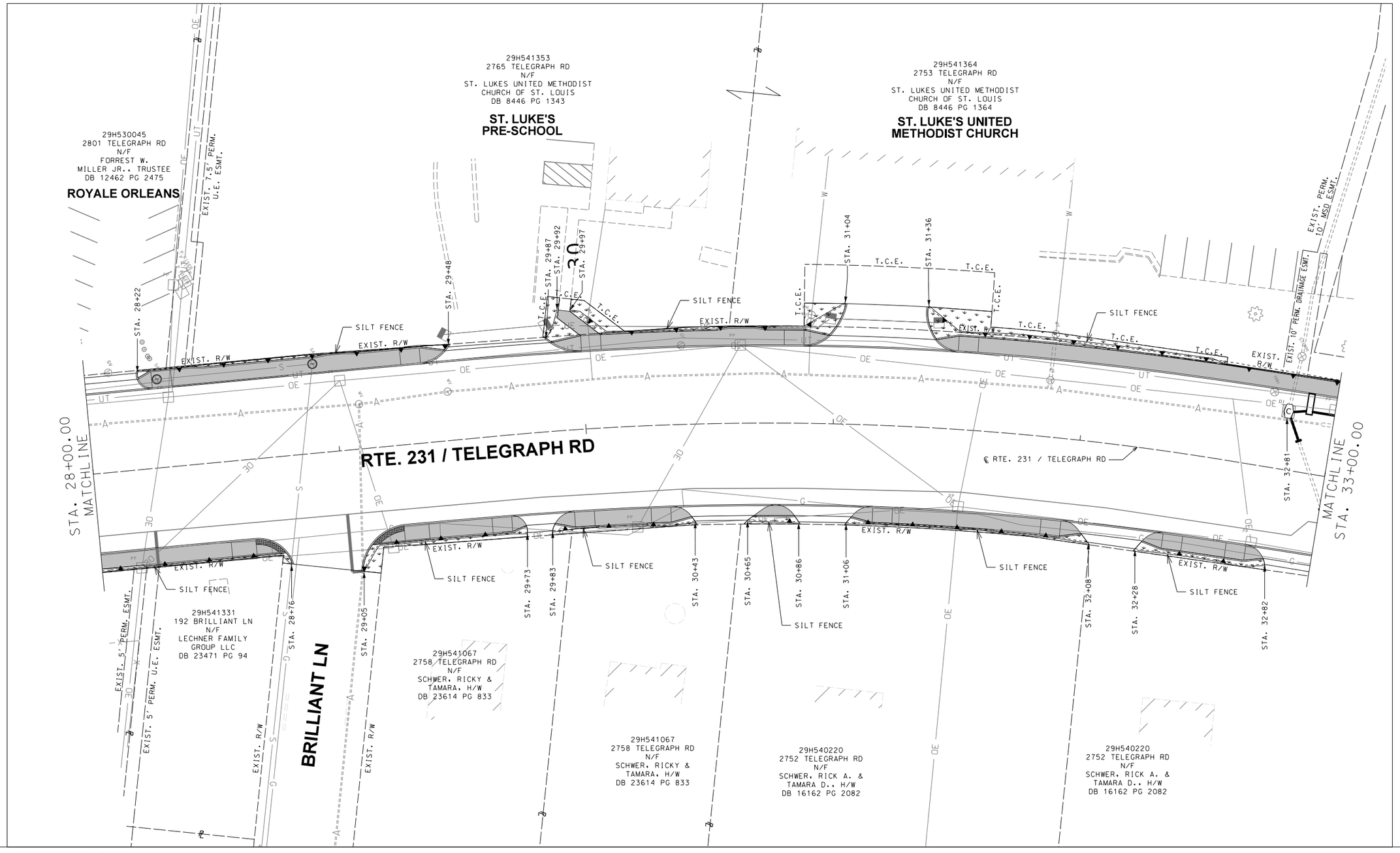
DESCRIPTION	DATE

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EROSION CONTROL LEGEND

- SILT FENCE
- TEMPORARY SEEDING AND MULCH
- CURB INLET CHECK (C)
- ROCK DITCH CHECK (R)
- PERMANENT EASEMENT
- EXISTING RIGHT OF WAY
- TEMPORARY EASEMENT
- NEW RIGHT OF WAY

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SCALE

0 20 40 60

EROSION CONTROL PLAN SHEETS
SHEET 4 OF 31

LAYOUT	JAM	11/2024
DRAWN	JAM	11/2024
REVIEWED		

STATE OF MISSOURI
DENNIS J KOSCIELSKI
NUMBER PE-2005000712
PROFESSIONAL ENGINEER

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DATE PREPARED
7/25/2025

ROUTE	STATE
231	MO
DISTRICT	SHEET NO.
SL	262

COUNTY
ST. LOUIS

JOB NO.
J6S3631

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION	DATE

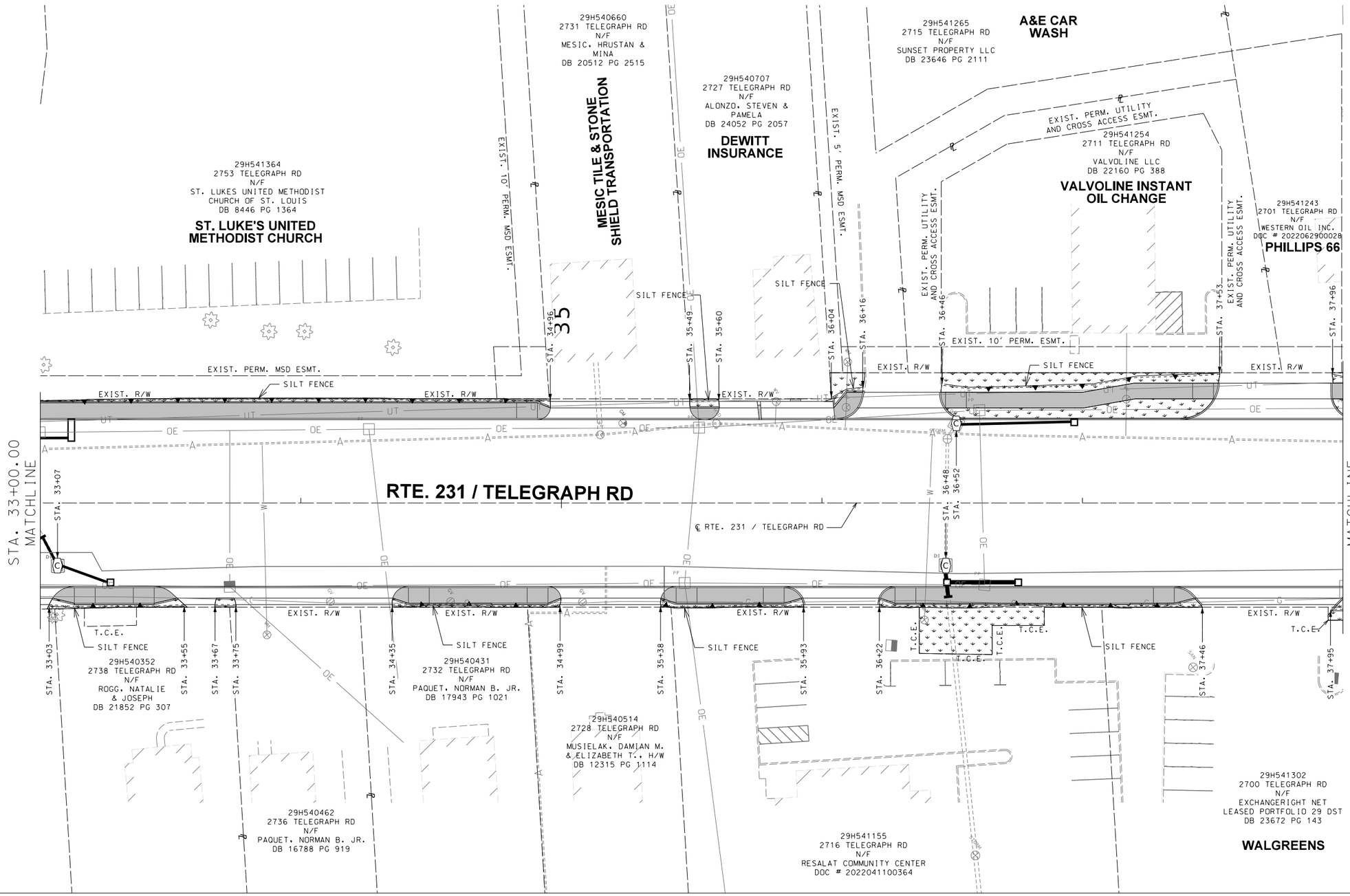
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EROSION CONTROL LEGEND

- SILT FENCE
- TEMPORARY SEEDING AND MULCH
- CURB INLET CHECK
- ROCK DITCH CHECK
- PERMANENT EASEMENT
- EXISTING RIGHT OF WAY
- TEMPORARY EASEMENT
- NEW RIGHT OF WAY

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SCALE

0 20 40 60

EROSION CONTROL PLAN SHEETS
SHEET 5 OF 31

LAYOUT	JAM	11/2024
DRAWN	JAM	11/2024
REVIEWED		

STATE OF MISSOURI
DENNIS J KOSCIELSKI
NUMBER PE-2005000712
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED
7/25/2025

ROUTE	STATE
231	MO
DISTRICT	SHEET NO.
SL	263

COUNTY
ST. LOUIS

JOB NO.
J6S3631

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

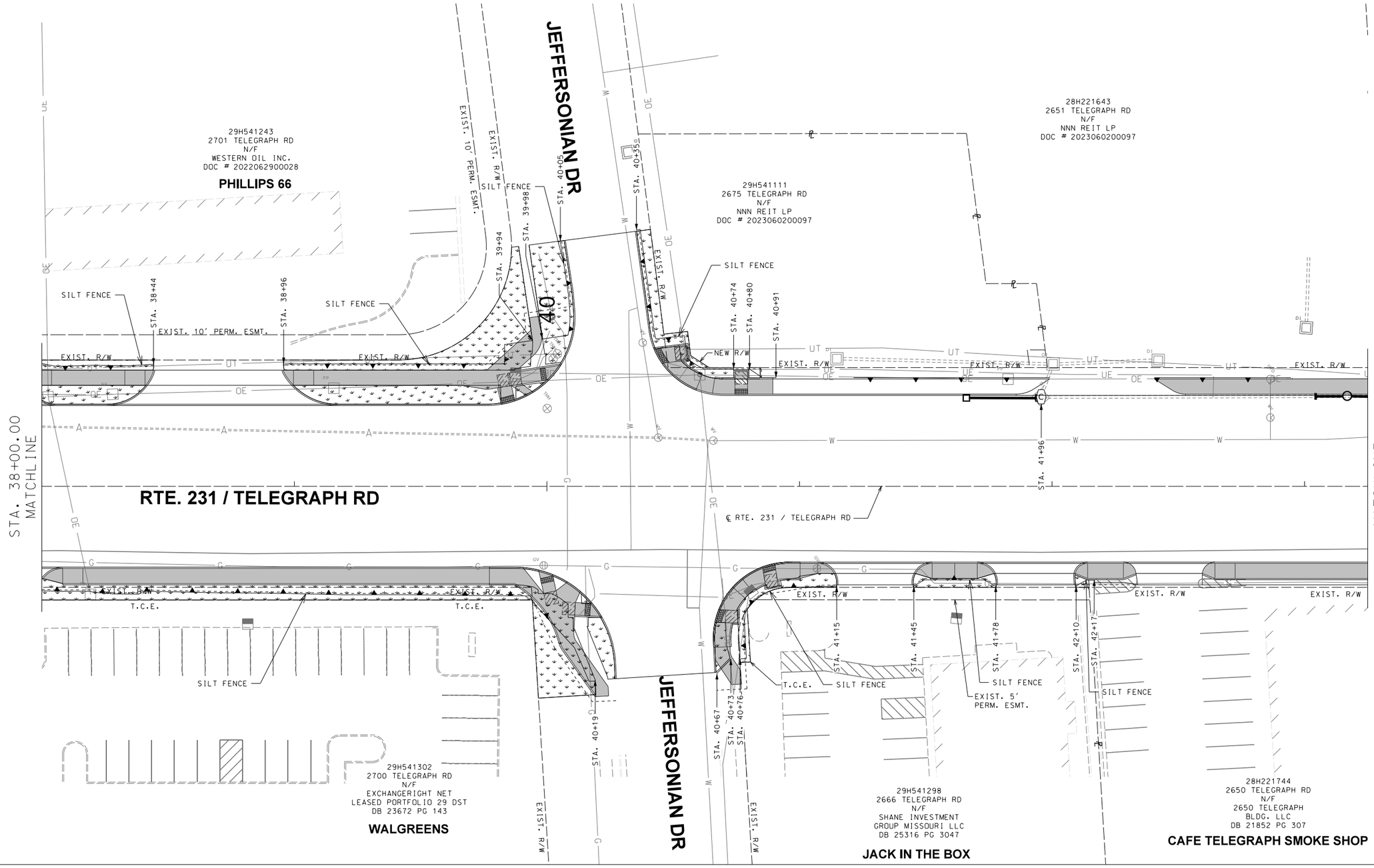
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EROSION CONTROL LEGEND

- SILT FENCE
- TEMPORARY SEEDING AND MULCH
- (C) CURB INLET CHECK
- (R) ROCK DITCH CHECK
- PERMANENT EASEMENT
- EXISTING RIGHT OF WAY
- TEMPORARY EASEMENT
- NEW RIGHT OF WAY

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SCALE
0 20 40 60

EROSION CONTROL PLAN SHEETS
SHEET 6 OF 31

LAYOUT	JAM	11/2024
DRAWN	JAM	11/2024
REVIEWED		

STATE OF MISSOURI
DENNIS J KOSCIELSKI
NUMBER PE-2005000712
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED	7/25/2025
ROUTE	231
STATE	MO
DISTRICT	SL
SHEET NO.	264
COUNTY	ST. LOUIS
JOB NO.	J6S3631
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

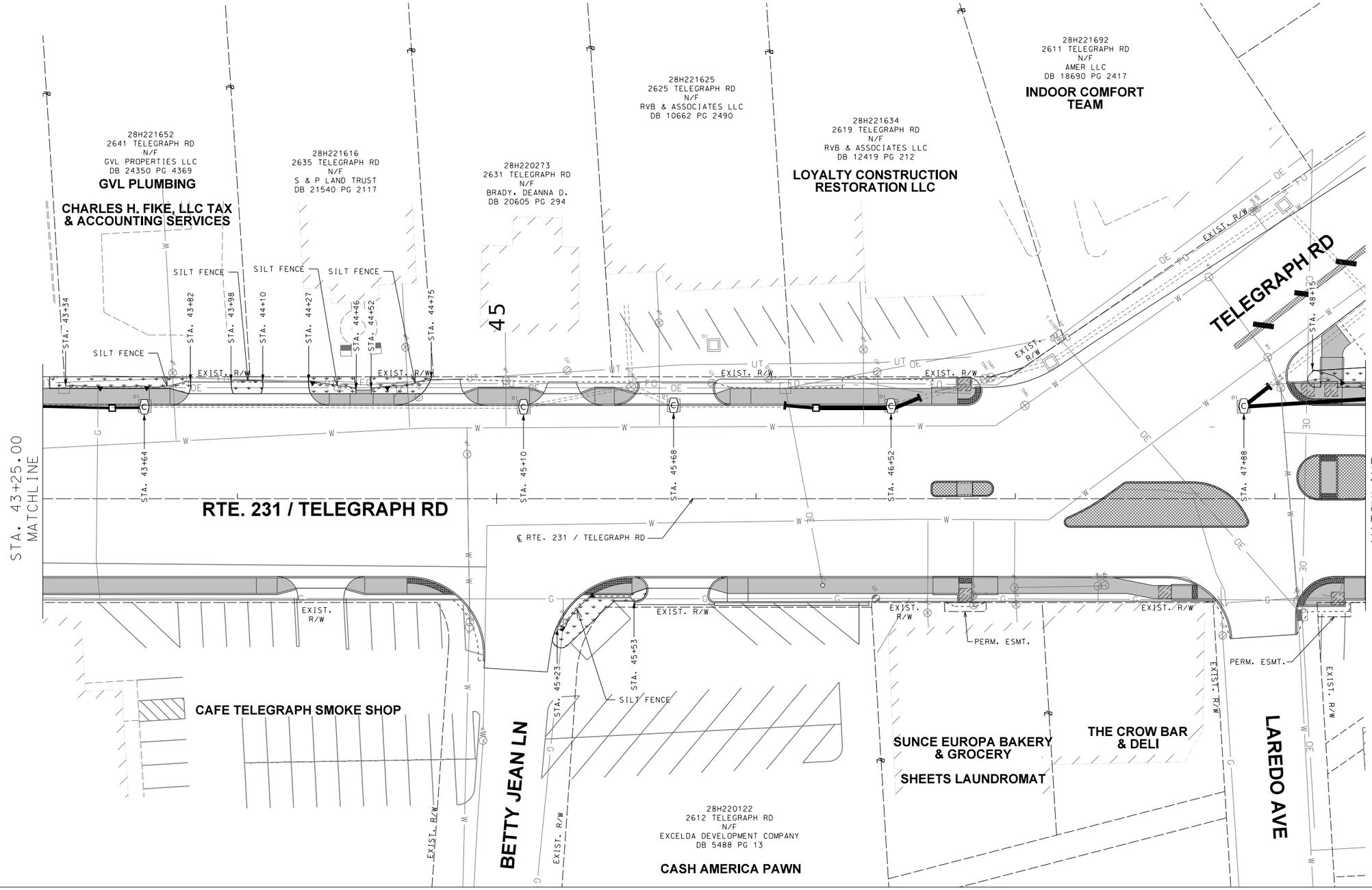
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EROSION CONTROL LEGEND

- SILT FENCE
- TEMPORARY SEEDING AND MULCH
- CURB INLET CHECK
- ROCK DITCH CHECK
- PERMANENT EASEMENT
- EXISTING RIGHT OF WAY
- TEMPORARY EASEMENT
- NEW RIGHT OF WAY

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SCALE

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EROSION CONTROL PLAN SHEETS
SHEET 7 OF 31

	DATE	DESCRIPTION
LAYOUT	11/2024	
DRAWN	JAM	
REVIEWED	11/2024	

STATE OF MISSOURI
DENNIS J KOSCIELSKI
NUMBER PE-2005000712
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED: 7/25/2025

ROUTE	STATE
231	MO
DISTRICT	SHEET NO.
SL	265

COUNTY: ST. LOUIS
JOB NO.: J6S3631
CONTRACT ID.:
PROJECT NO.:
BRIDGE NO.:

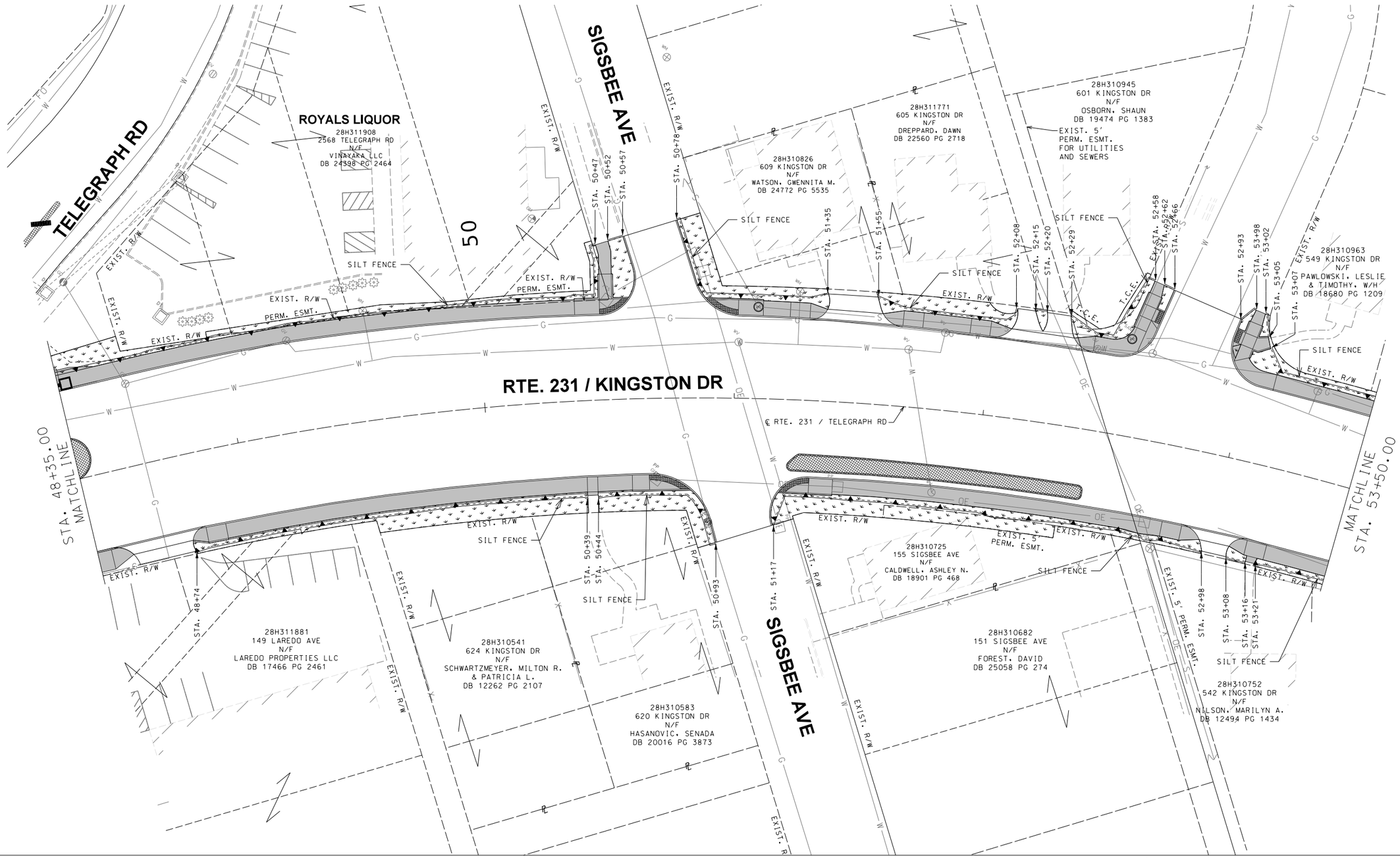
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- CURB INLET CHECK
- ROCK DITCH CHECK
- PERMANENT EASEMENT
- EXISTING RIGHT OF WAY
- TEMPORARY EASEMENT
- NEW RIGHT OF WAY

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SCALE

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EROSION CONTROL PLAN SHEETS
SHEET 8 OF 31

LAYOUT	JAM	11/2024
DRAWN	JAM	11/2024
REVIEWED		

STATE OF MISSOURI
DENNIS J KOSCIELSKI
NUMBER PE-2005000712
PROFESSIONAL ENGINEER

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DATE PREPARED
7/25/2025

ROUTE	STATE
231	MO
DISTRICT	SHEET NO.
SL	266

COUNTY
ST. LOUIS

JOB NO.
J6S3631

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

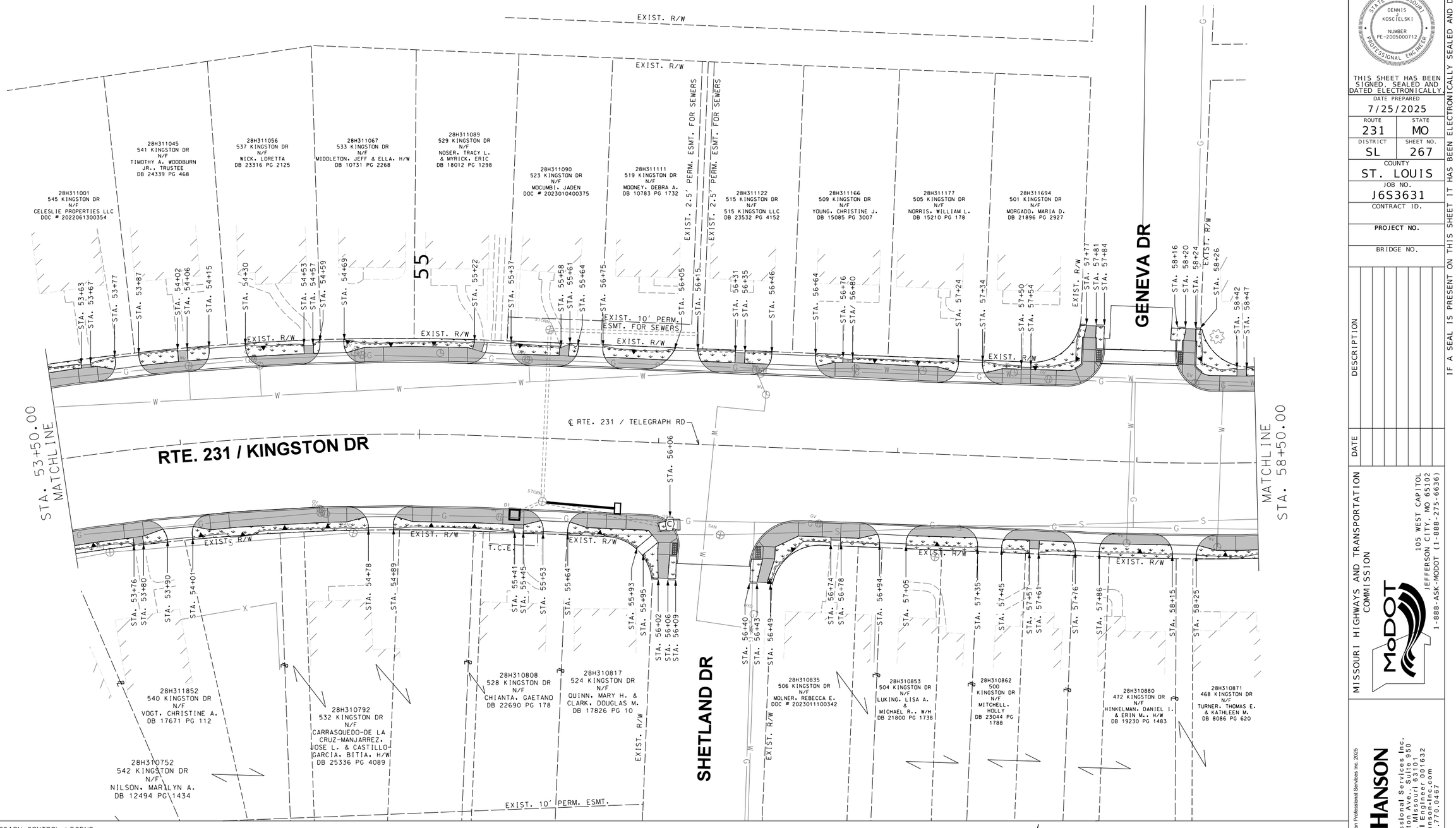
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EROSION CONTROL LEGEND

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- TEMPORARY SEEDING AND MULCH
- CURB INLET CHECK
- ROCK DITCH CHECK
- PERMANENT EASEMENT
- EXISTING RIGHT OF WAY
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EROSION CONTROL PLAN SHEETS
SHEET 9 OF 31

LAYOUT	JAM	11/2024
DRAWN	JAM	11/2024
REVIEWED		

STATE OF MISSOURI
DENNIS J. KOSCIELSKI
NUMBER PE-2005000712
PROFESSIONAL ENGINEER

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ROUTE	STATE
231	MO
DISTRICT	SHEET NO.
SL	267

COUNTY
ST. LOUIS

JOB NO.
J6S3631

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION	DATE

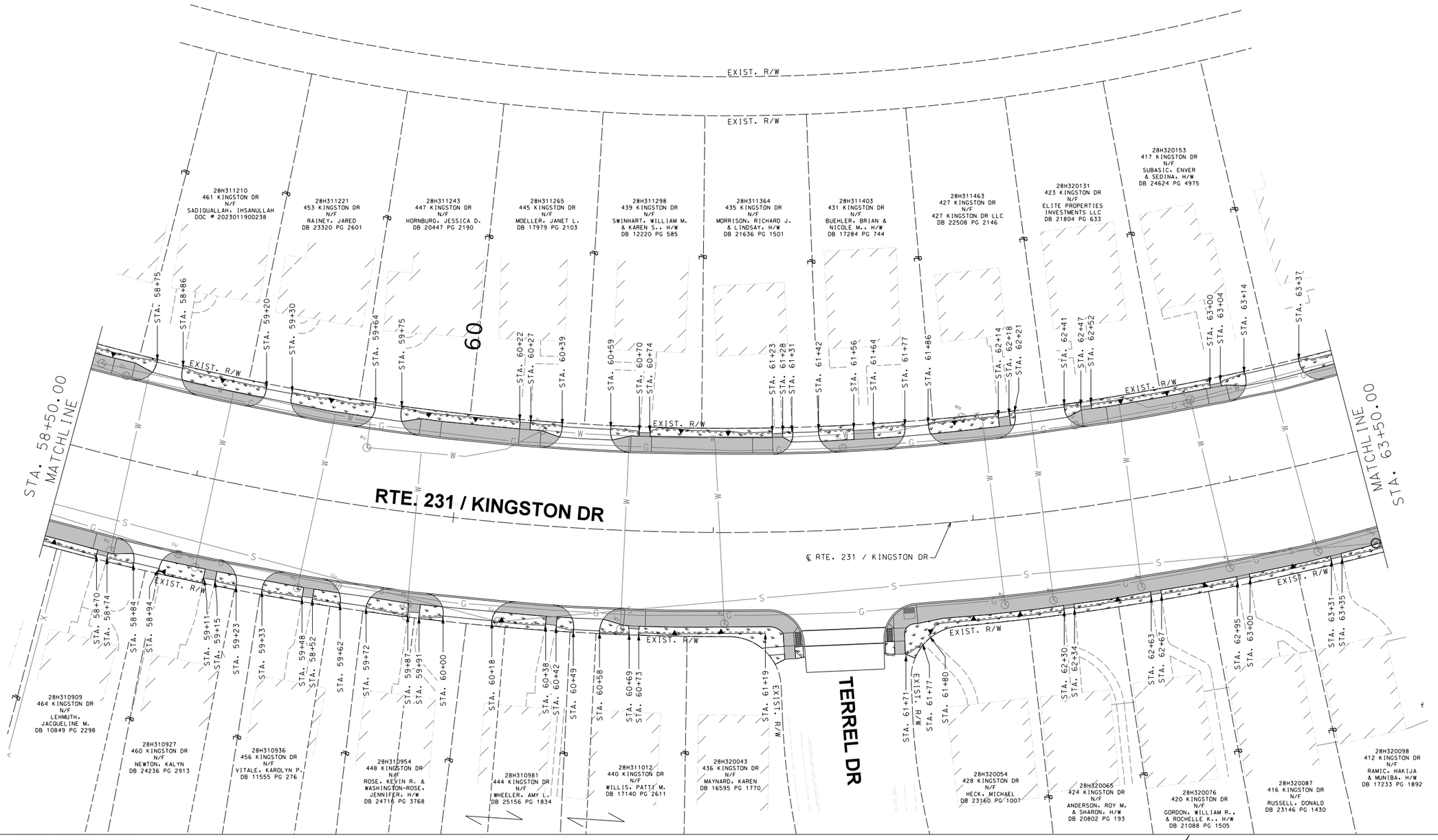
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SCALE
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EROSION CONTROL PLAN SHEETS
SHEET 10 OF 31

LAYOUT	JAM	11/2024
DRAWN	JAM	11/2024
REVIEWED		

STATE OF MISSOURI
DENNIS J KOSCIELSKI
NUMBER PE-2005000712
PROFESSIONAL ENGINEER

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ROUTE	STATE
231	MO
DISTRICT	SHEET NO.
SL	268

COUNTY
ST. LOUIS

JOB NO.
J6S3631

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

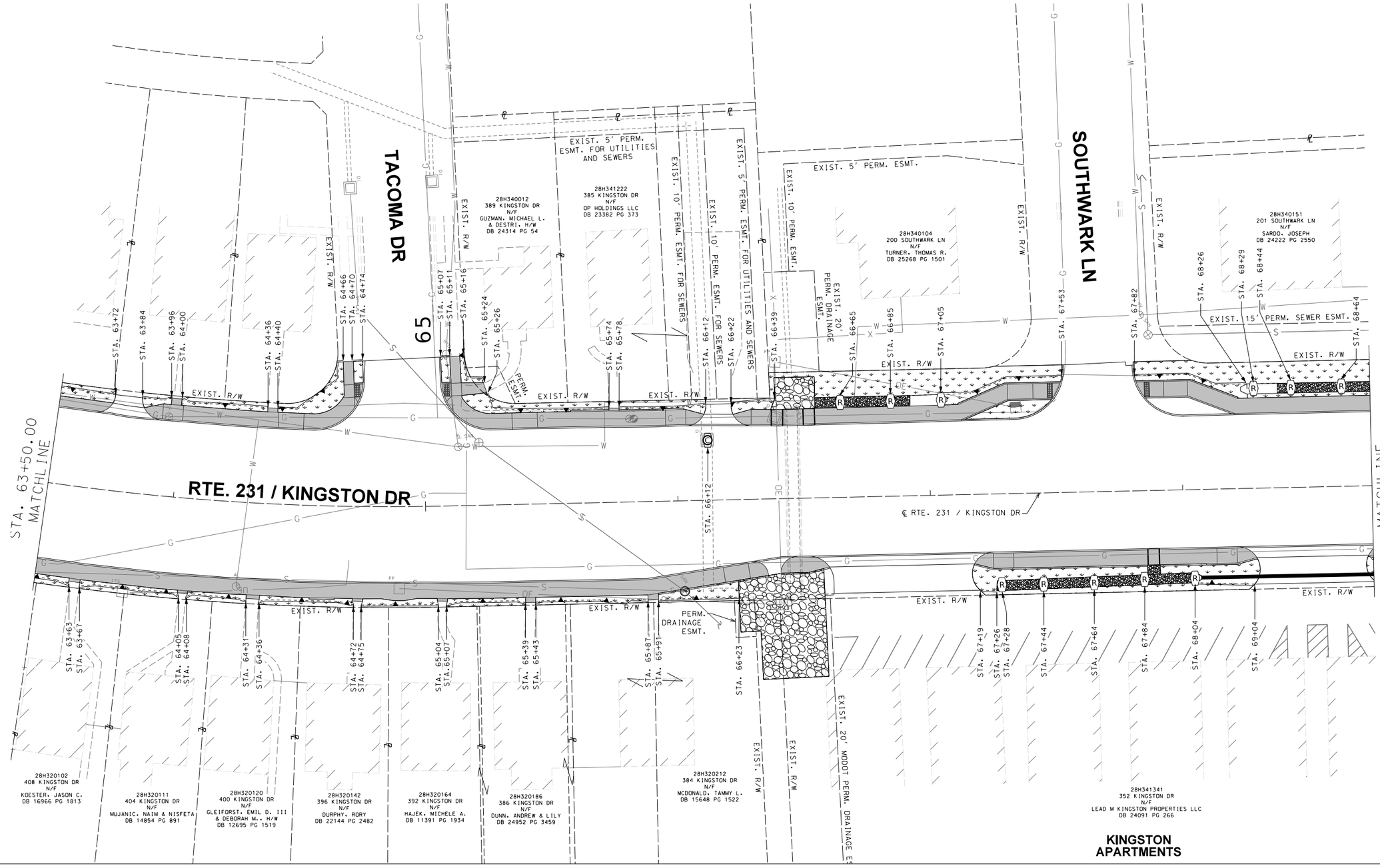
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- TEMPORARY SEEDING AND MULCH
- CURB INLET CHECK
- ROCK DITCH CHECK
- PERMANENT EASEMENT
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EROSION CONTROL PLAN SHEETS
SHEET 11 OF 31

LAYOUT	JAM	11/2024
DRAWN	JAM	11/2024
REVIEWED		

STATE OF MISSOURI
DENNIS J KOSCIELSKI
NUMBER PE-2005000712
PROFESSIONAL ENGINEER

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ROUTE	STATE
231	MO
DISTRICT	SHEET NO.
SL	269

COUNTY
ST. LOUIS

JOB NO.
J6S3631

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

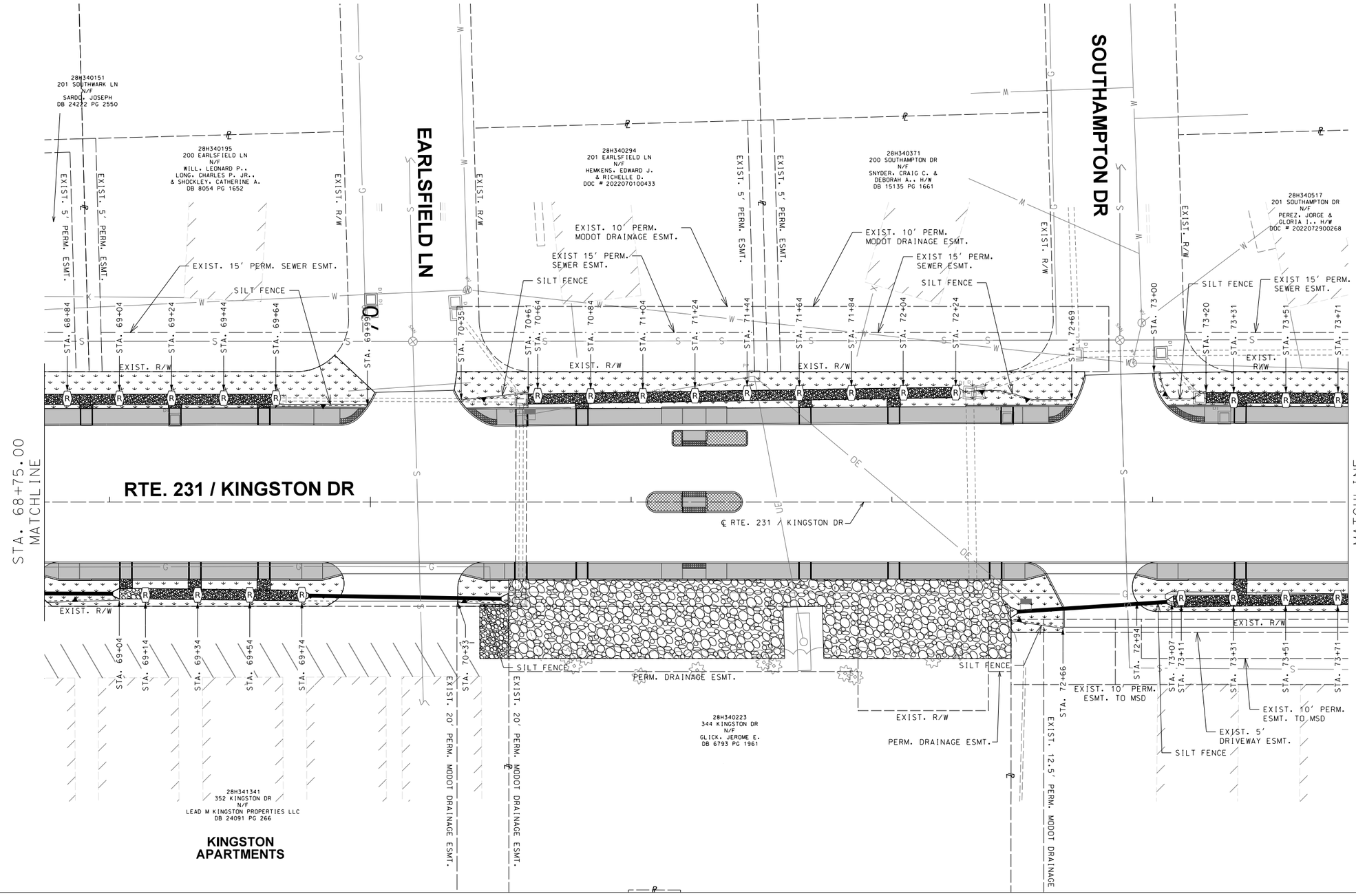
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- SILT FENCE
- TEMPORARY SEEDING AND MULCH
- (C) CURB INLET CHECK
- (R) ROCK DITCH CHECK
- PERMANENT EASEMENT
- EXISTING RIGHT OF WAY
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EROSION CONTROL PLAN SHEETS
SHEET 12 OF 31

LAYOUT	JAM	11/2024
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REVIEWED		

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DENNIS J KOSCIELSKI
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PROFESSIONAL ENGINEER

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ROUTE	STATE
231	MO
DISTRICT	SHEET NO.
SL	270

COUNTY
ST. LOUIS

JOB NO.
J6S3631

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

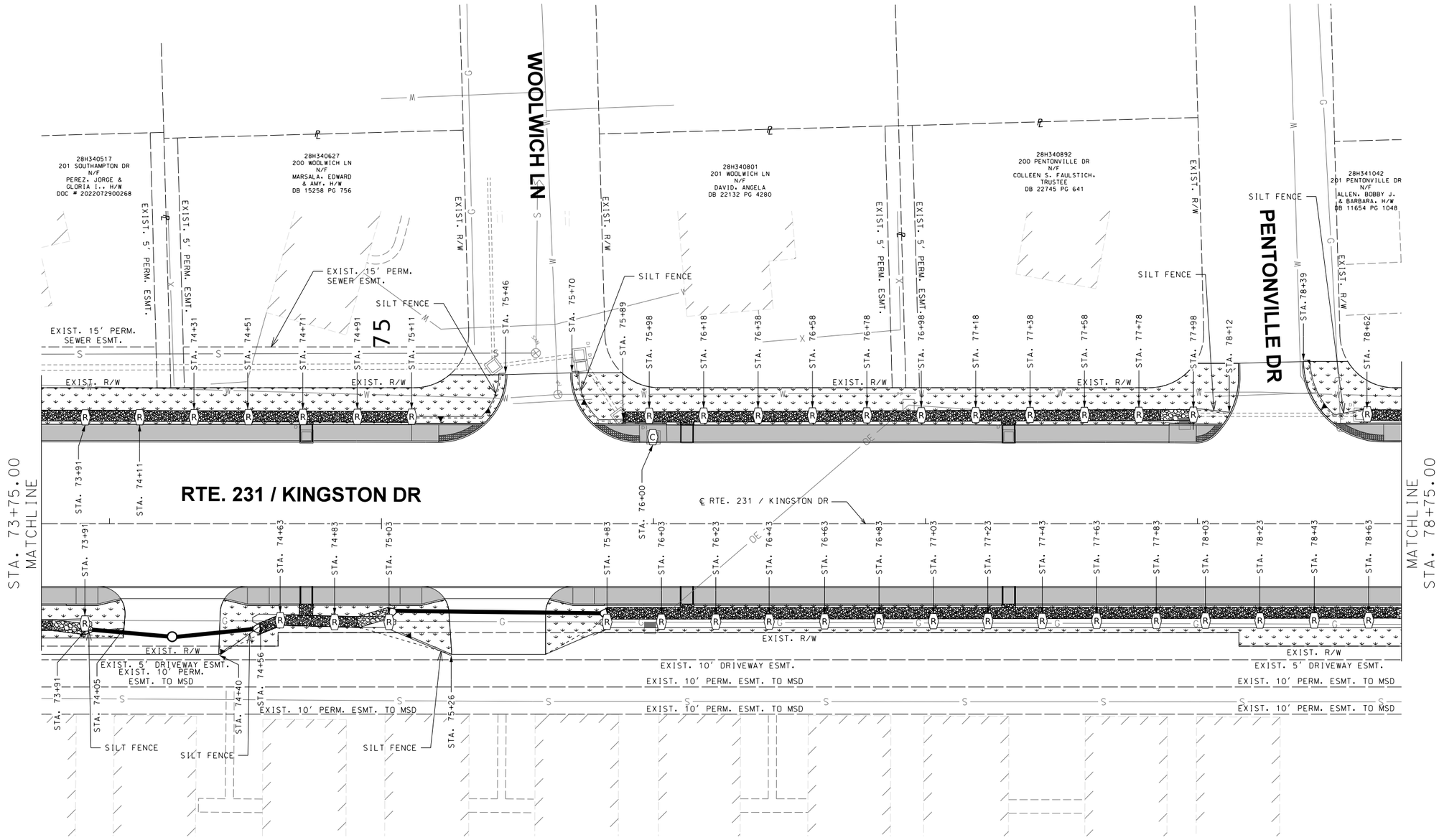
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- EXISTING RIGHT OF WAY
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EROSION CONTROL PLAN SHEETS
SHEET 13 OF 31

LAYOUT	JAM	11/2024
DRAWN	JAM	11/2024
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STATE OF MISSOURI
DENNIS J KOSCIELSKI
NUMBER PE-2005000712
PROFESSIONAL ENGINEER

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DATE PREPARED	7/25/2025
ROUTE	231
STATE	MO
DISTRICT	SL
SHEET NO.	271
COUNTY	ST. LOUIS
JOB NO.	J6S3631
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

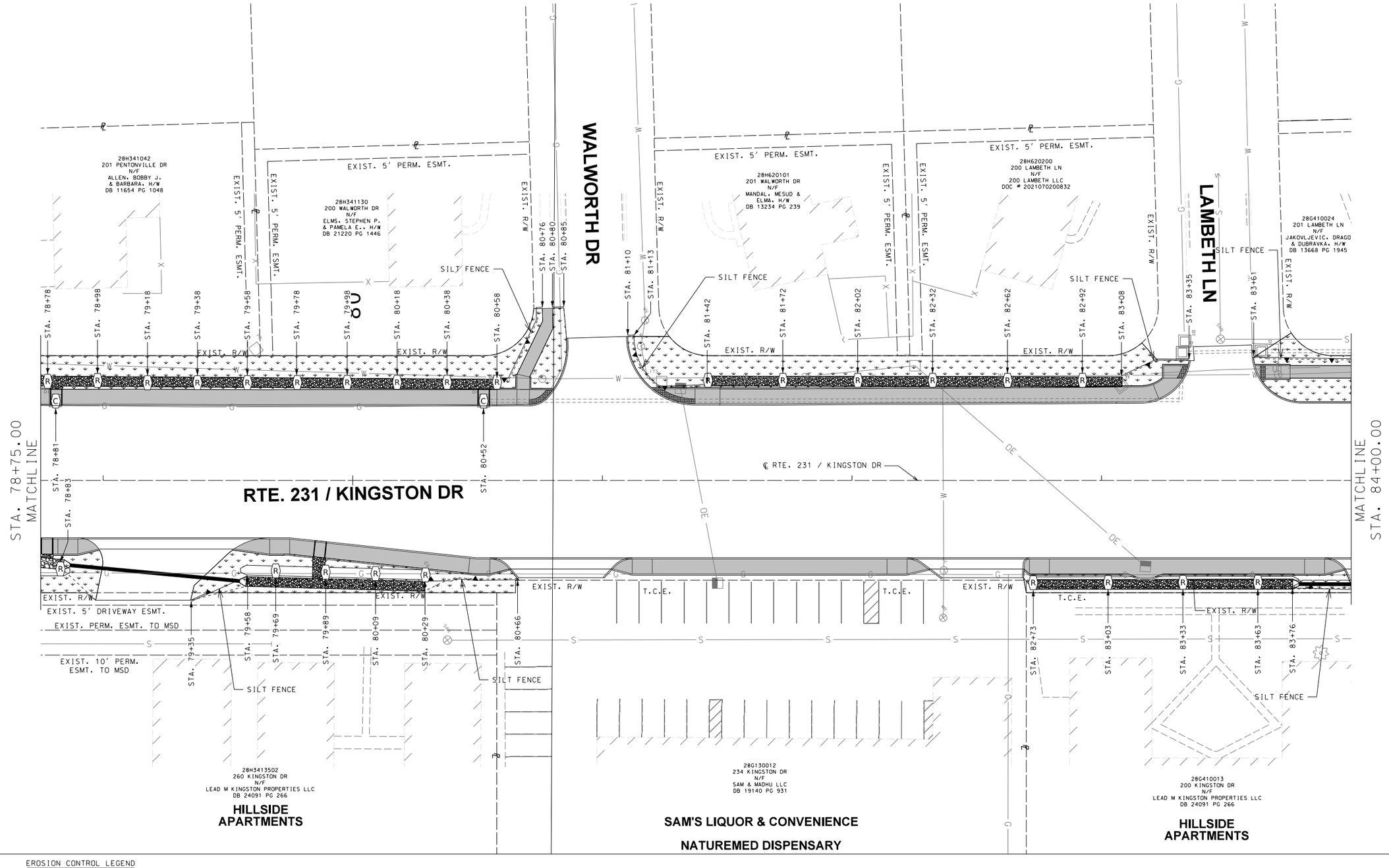
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EROSION CONTROL PLAN SHEETS
SHEET 14 OF 31

	DATE	DESCRIPTION
LAYOUT	11/2024	
DRAWN	JAM	
REVIEWED	11/2024	

STATE OF MISSOURI
DENNIS J KOSCIELSKI
NUMBER PE-2005000712
PROFESSIONAL ENGINEER

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ROUTE	STATE
231	MO
DISTRICT	SHEET NO.
SL	272

COUNTY
ST. LOUIS

JOB NO.
J6S3631

CONTRACT ID.

PROJECT NO.

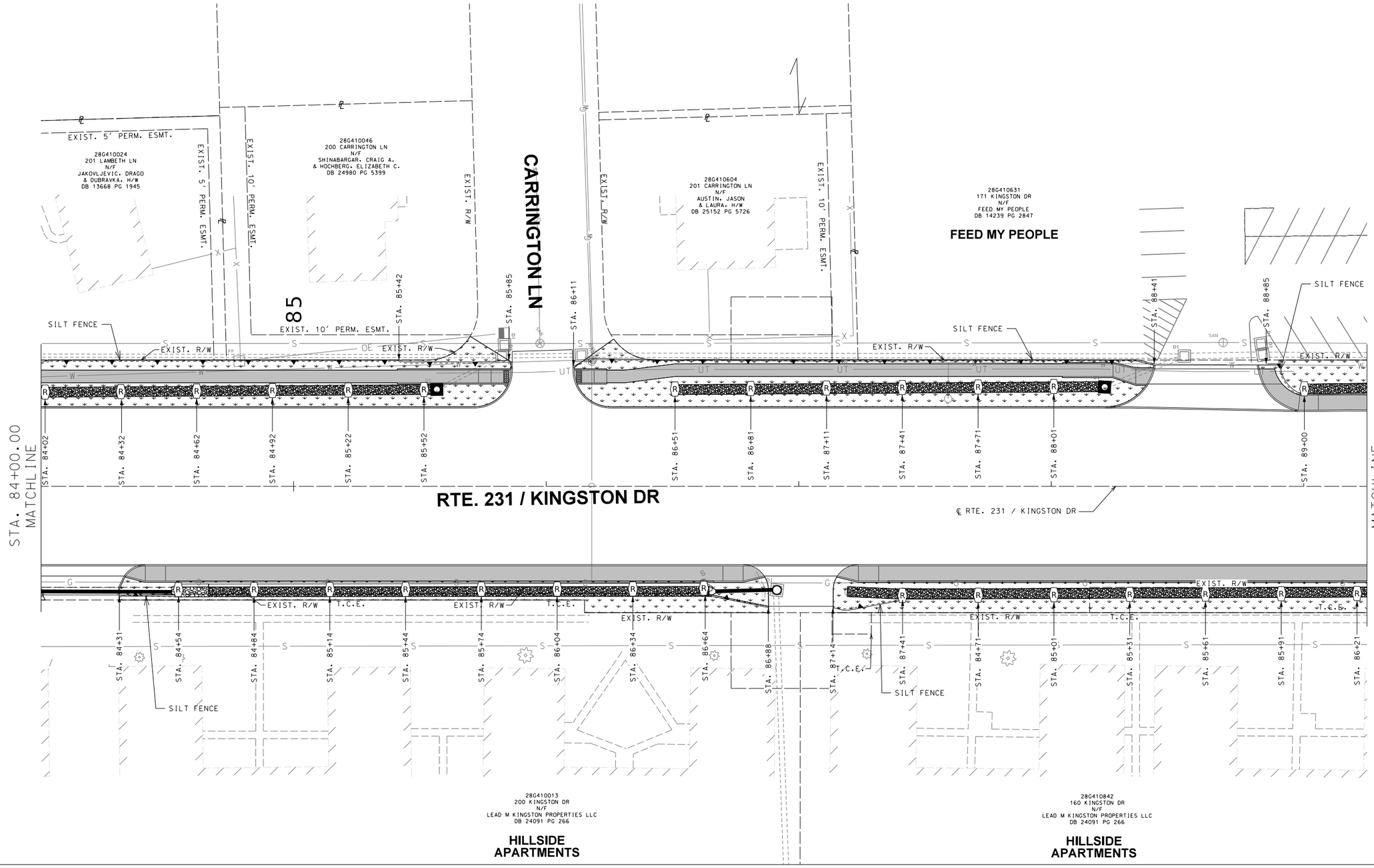
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EROSION CONTROL PLAN SHEETS
SHEET 15 OF 31

LAYOUT	JAM	11/2024
DRAWN	JAM	11/2024
REVIEWED		

STATE OF MISSOURI
DENNIS J KOSCIELSKI
NUMBER PE-2005000712
PROFESSIONAL ENGINEER

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DATE PREPARED
7/25/2025

ROUTE	STATE
231	MO
DISTRICT	SHEET NO.
SL	273

COUNTY
ST. LOUIS

JOB NO.
J6S3631

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

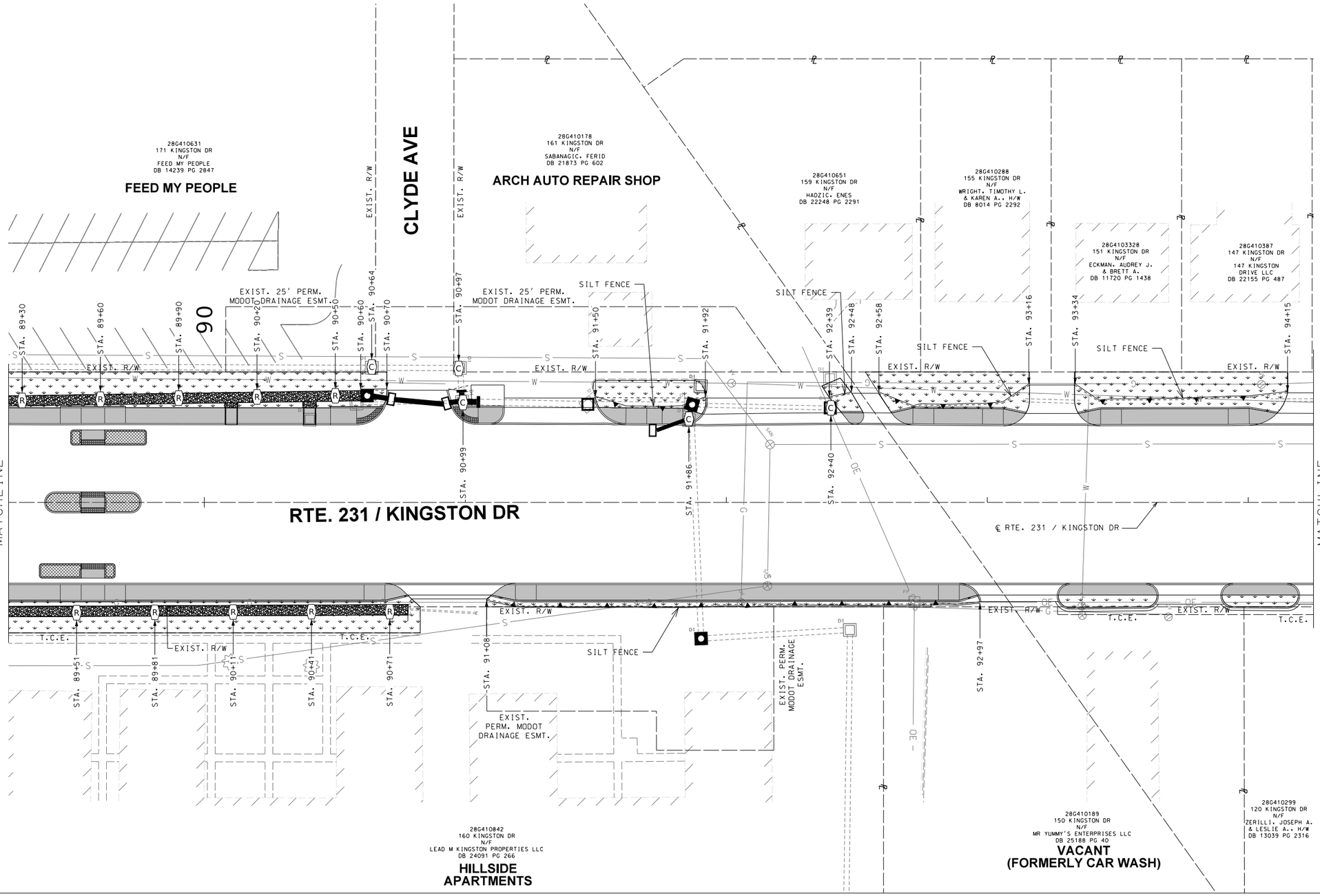
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EROSION CONTROL LEGEND

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EROSION CONTROL PLAN SHEETS
SHEET 16 OF 31

LAYOUT	JAM	11/2024
DRAWN	JAM	11/2024
REVIEWED		

STATE OF MISSOURI
DENNIS J KOSCIELSKI
NUMBER PE-2005000712
PROFESSIONAL ENGINEER

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DATE PREPARED
7/25/2025

ROUTE	STATE
231	MO
DISTRICT	SHEET NO.
SL	274

COUNTY
ST. LOUIS

JOB NO.
J6S3631

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DATE	DESCRIPTION

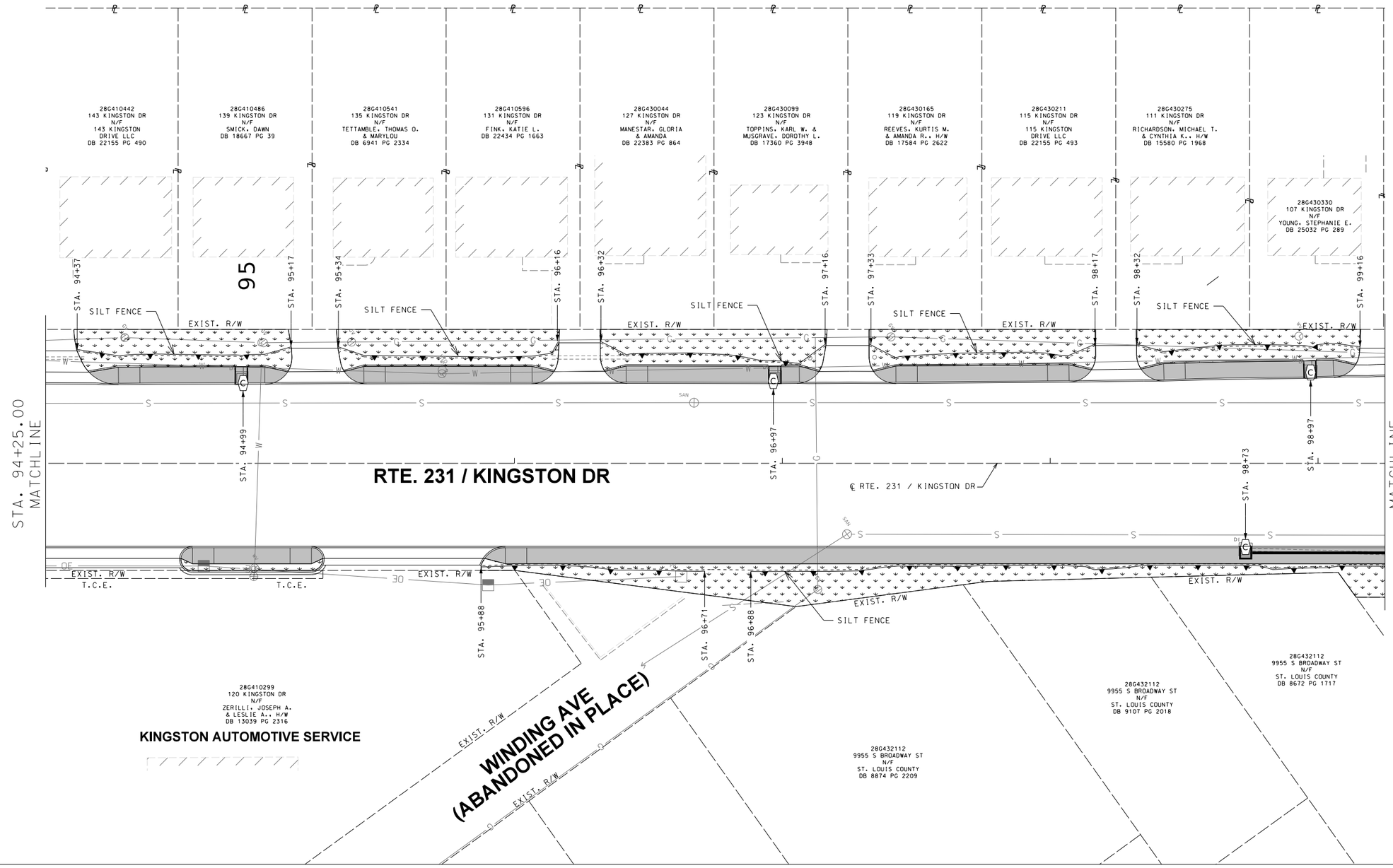
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EROSION CONTROL PLAN SHEETS
SHEET 17 OF 31

LAYOUT	JAM	11/2024
DRAWN	JAM	11/2024
REVIEWED		

STATE OF MISSOURI
DENNIS J KOSCIELSKI
NUMBER PE-2005000712
PROFESSIONAL ENGINEER

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DATE PREPARED
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ROUTE	STATE
231	MO
DISTRICT	SHEET NO.
SL	275

COUNTY
ST. LOUIS

JOB NO.
J6S3631

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PROJECT NO.

BRIDGE NO.

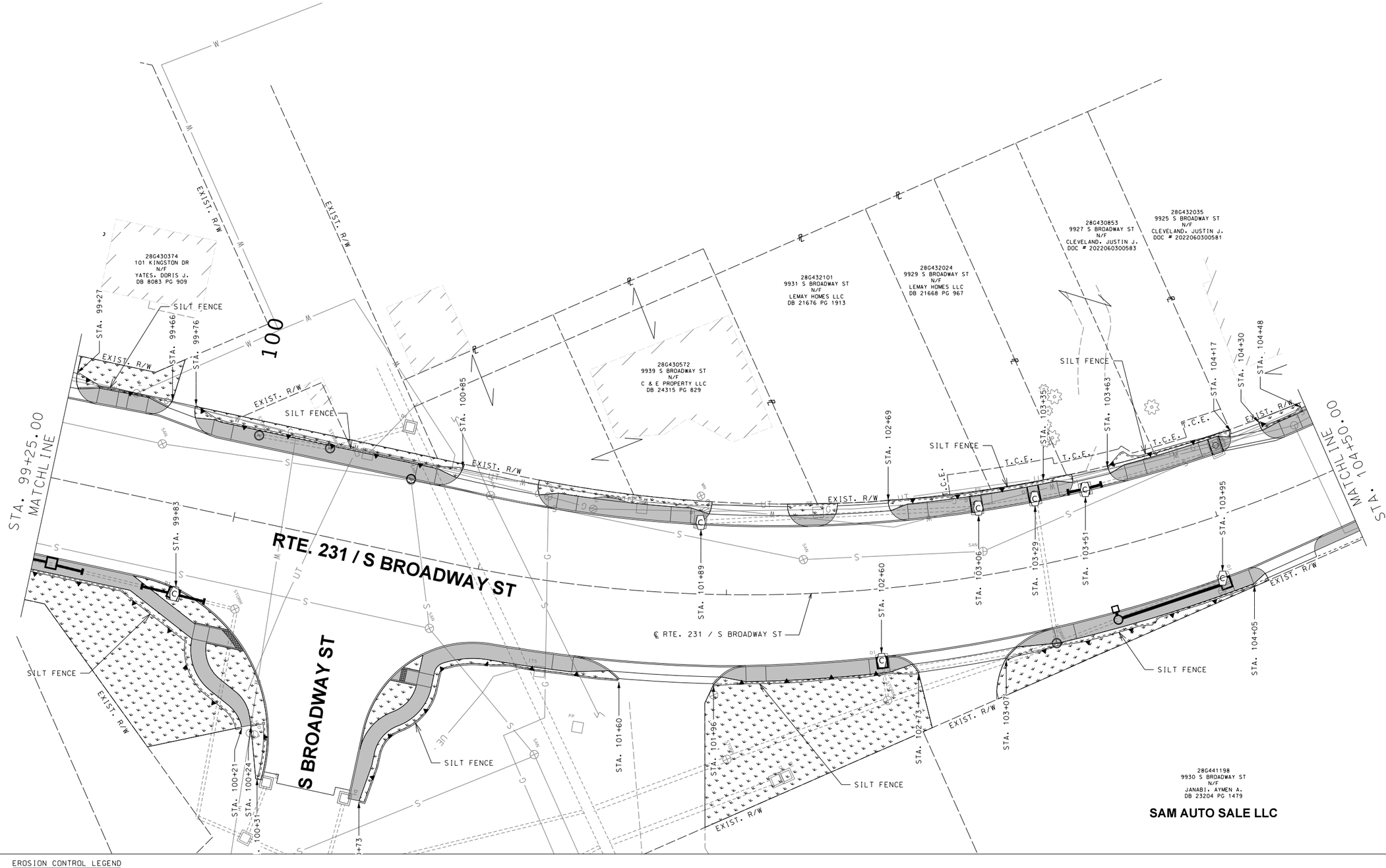
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- NEW RIGHT OF WAY

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SCALE
0 20 40 60

EROSION CONTROL PLAN SHEETS
SHEET 18 OF 31

LAYOUT	JAM	11/2024
DRAWN	JAM	11/2024
REVIEWED		

STATE OF MISSOURI
DENNIS J KOSCIELSKI
NUMBER PE-2005000712
PROFESSIONAL ENGINEER

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DATE PREPARED
7/25/2025

ROUTE	STATE
231	MO
DISTRICT	SHEET NO.
SL	276

COUNTY
ST. LOUIS

JOB NO.
J6S3631

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

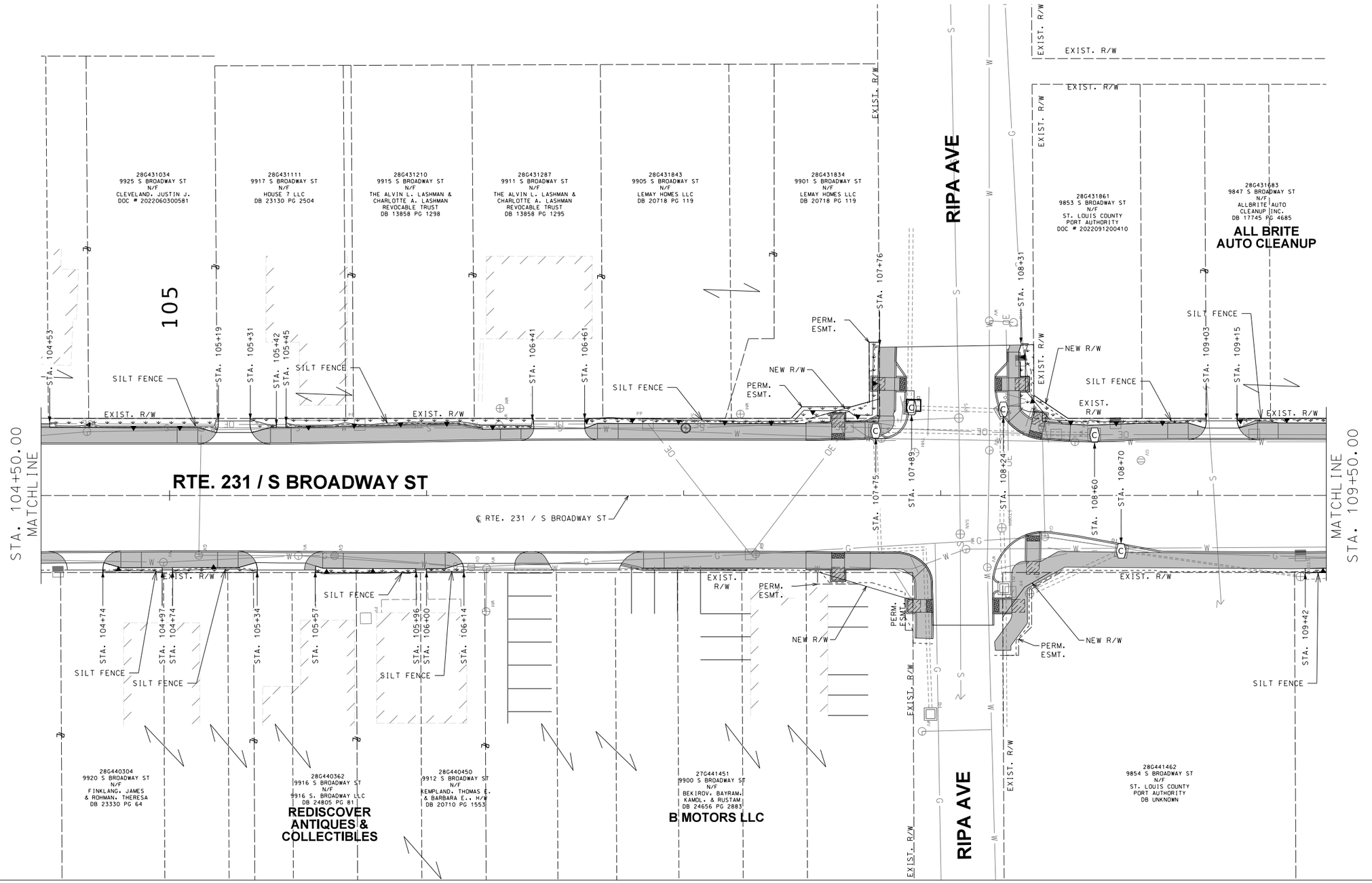
DATE	DESCRIPTION

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105 WEST CAPITOL
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Professional Engineer 001632
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EROSION CONTROL LEGEND

- SILT FENCE
- TEMPORARY SEEDING AND MULCH
- CURB INLET CHECK
- ROCK DITCH CHECK
- PERMANENT EASEMENT
- EXISTING RIGHT OF WAY
- TEMPORARY EASEMENT
- NEW RIGHT OF WAY

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SCALE

0 20 40 60

EROSION CONTROL PLAN SHEETS
SHEET 19 OF 31

LAYOUT	JAM	11/2024
DRAWN	JAM	11/2024
REVIEWED		

STATE OF MISSOURI
DENNIS J KOSCIELSKI
NUMBER PE-2005000712
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED
7/25/2025

ROUTE	STATE
231	MO
DISTRICT	SHEET NO.
SL	277

COUNTY
ST. LOUIS

JOB NO.
J6S3631

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

NO.	DESCRIPTION	DATE

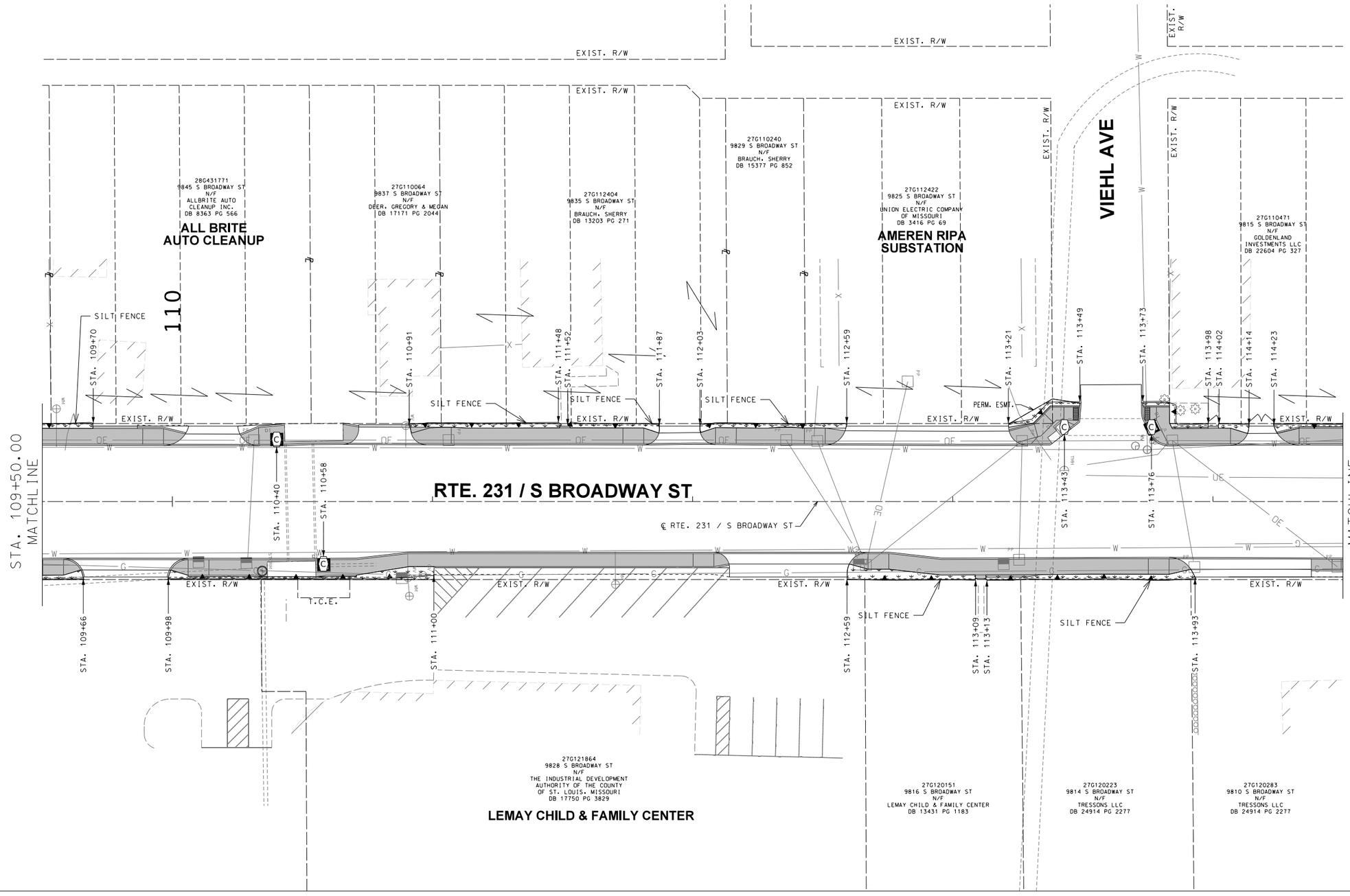
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EROSION CONTROL LEGEND

- SILT FENCE
- TEMPORARY SEEDING AND MULCH
- CURB INLET CHECK
- ROCK DITCH CHECK
- PERMANENT EASEMENT
- EXISTING RIGHT OF WAY
- TEMPORARY EASEMENT
- NEW RIGHT OF WAY

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SCALE
0 20 40 60

EROSION CONTROL PLAN SHEETS
SHEET 20 OF 31

LAYOUT	JAM	11/2024
DRAWN	JAM	11/2024
REVIEWED		

STATE OF MISSOURI
DENNIS J KOSCIELSKI
NUMBER PE-2005000712
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED
7/25/2025

ROUTE	STATE
231	MO
DISTRICT	SHEET NO.
SL	278

COUNTY
ST. LOUIS

JOB NO.
J6S3631

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DATE	DESCRIPTION

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MATCHLINE

RTE. 231 / S BROADWAY ST

℄ RTE. 231 / S BROADWAY ST

W ARLEE AVE

E ARLEE AVE

W FELTON AVE

27G110671
9809 S BROADWAY ST
N/F
WILLEY, BRIAN & KIMBERLY, H/W
DB 22398 PG 1338

27G110680
9807 S BROADWAY ST
N/F
DOHACK, STEPHEN
DB 25198 PG 2301

27G110691
9803 S BROADWAY ST
N/F
STILES, KEVIN & CAREY, MICHAEL
DB 22278 PG 4872

27G110947
9801 S BROADWAY ST
N/F
JAD BUILDING LLC
DB 25054 PG 3282

THE KORNER BAR

27G111533
9737 S BROADWAY ST
N/F
DOTY, WILLIAM H.
DB 22342 PG 1026

27G110956
9731 S BROADWAY ST
N/F
FERRARO, LUKE S.
DB 24122 PG 4846

27G111197
9727 S BROADWAY ST
N/F
HAMILTON, MALIKA
DOC # 2022040500762

27G111230
9725 S BROADWAY ST
N/F
SERVIUS STLCO LLC
DB 22580 PG 142

27G111252
9723 S BROADWAY ST
N/F
BAKER, MICHELLE & DONNA
DB 24974 PG 1981

27G111414
9721 S BROADWAY ST
N/F
BAKER, ALEXIS N. & CHRIS, M/H
DB 18302 PG 1165

27G111515
9719 S BROADWAY ST
N/F
SECOND CHRISTIAN FELLOWSHIP CHURCH
DB 18427 PG 2593

27G111542
9715 S BROADWAY ST
N/F
KRAUSE, JASON A.
DB 16978 PG 671

27G120283
9810 S BROADWAY ST
N/F
TRESSONS LLC
DB 24914 PG 2277

27G120283
9806 S BROADWAY ST
N/F
TRESSONS LLC
DB 24914 PG 2277

RELIABLE HOME REPAIR

CERTIFIED WATERPROOFING

27G120470
9800 S BROADWAY ST
N/F
TRESSONS LLC
DB 24914 PG 2277

27G120728
9736 S BROADWAY ST
N/F
T-BOB'S AMUSEMENT, LLC
DB 23262 PG 1733

PLASTI-TEK SALES

27G120865
9724 S BROADWAY ST
N/F
FEXER'S SALES AND SERVICE LLC
DB 22944 PG 191

FEXER SALES & SERVICE

27G120993
9720 S BROADWAY ST
N/F
FEXER, ALLAN K.
DB 24290 PG 2615

27G121064
9714 S BROADWAY ST
N/F
MCNAMARA, CONLYN & HIGGINS, ROBERT P.
DB 22094 PG 3673

STA. 114+56
STA. 114+75
STA. 115+00
STA. 115+03
STA. 115+41
STA. 115+55
STA. 115+78
STA. 115+82
STA. 115+95
STA. 116+80
STA. 117+30
STA. 117+34
STA. 117+49
STA. 117+57
STA. 117+71
STA. 117+75
STA. 118+17
STA. 118+21
STA. 118+36
STA. 118+68
STA. 118+80
STA. 118+84
STA. 118+98
STA. 119+66

SILT FENCE
NEW R/W
PERM. ESMT.
T.C.E.
EXIST. R/W
UE
OE
W
G
S
M
X
PP
HWL
CV

EROSION CONTROL LEGEND

- SILT FENCE
- TEMPORARY SEEDING AND MULCH
- CURB INLET CHECK
- ROCK DITCH CHECK
- PERMANENT EASEMENT
- EXISTING RIGHT OF WAY
- TEMPORARY EASEMENT
- NEW RIGHT OF WAY

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SCALE
0 20 40 60

EROSION CONTROL PLAN SHEETS
SHEET 21 OF 31

LAYOUT	JAM	11/2024
DRAWN	JAM	11/2024
REVIEWED		

STATE OF MISSOURI
DENNIS J KOSCIELSKI
NUMBER PE-2005000712
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED
7/25/2025

ROUTE	STATE
231	MO
DISTRICT	SHEET NO.
SL	279

COUNTY
ST. LOUIS

JOB NO.
J6S3631

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION	DATE

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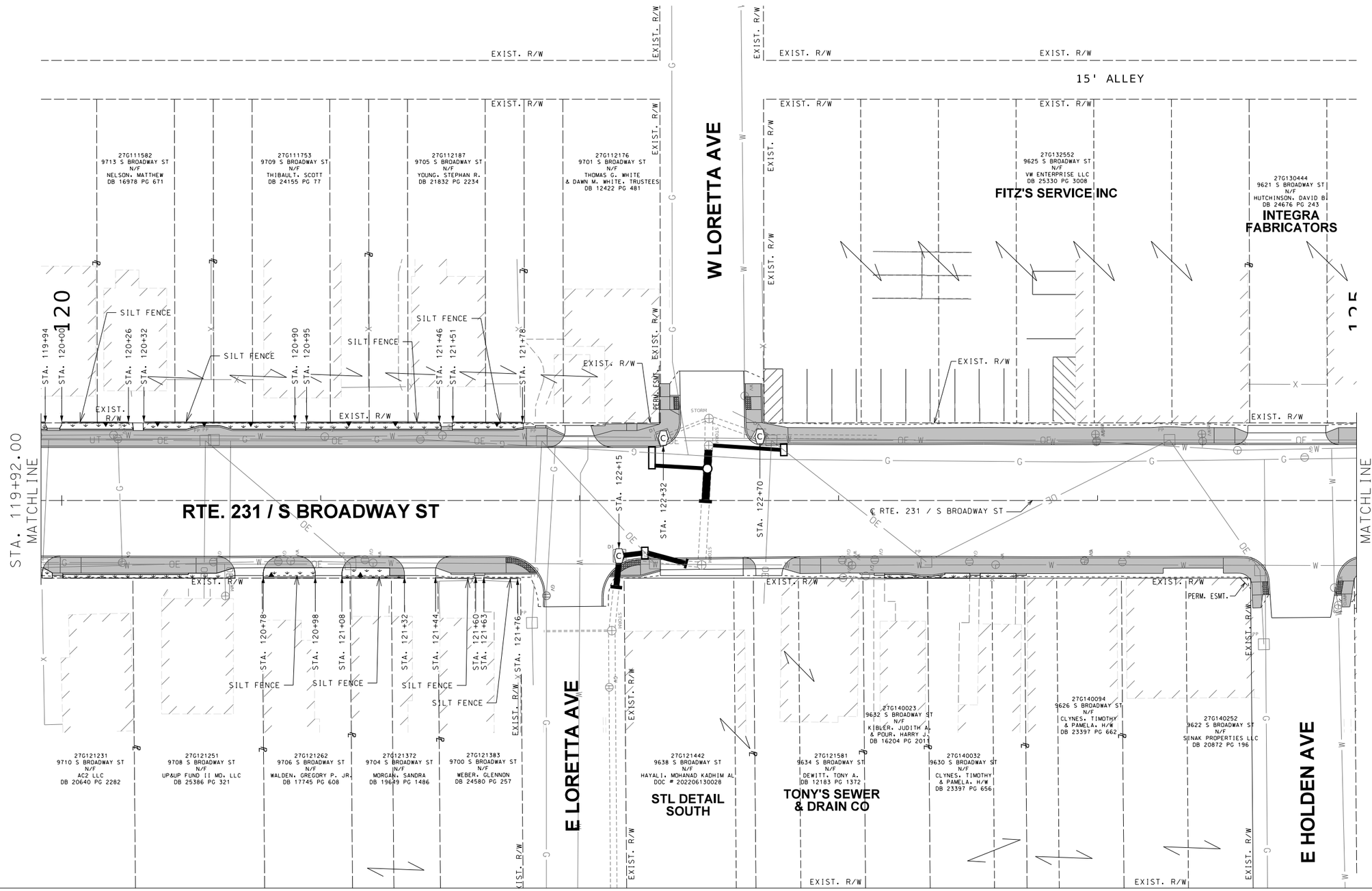
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EROSION CONTROL LEGEND

- SILT FENCE
- TEMPORARY SEEDING AND MULCH
- CURB INLET CHECK
- ROCK DITCH CHECK
- PERMANENT EASEMENT
- EXISTING RIGHT OF WAY
- TEMPORARY EASEMENT
- NEW RIGHT OF WAY

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SCALE
0 20 40 60

EROSION CONTROL PLAN SHEETS
SHEET 22 OF 31

LAYOUT	JAM	11/2024
DRAWN	JAM	11/2024
REVIEWED		

STATE OF MISSOURI
DENNIS J KOSCIELSKI
NUMBER PE-2005000712
PROFESSIONAL ENGINEER

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DATE PREPARED	7/25/2025
ROUTE	231
STATE	MO
DISTRICT	SL
SHEET NO.	280
COUNTY	ST. LOUIS
JOB NO.	J6S3631
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

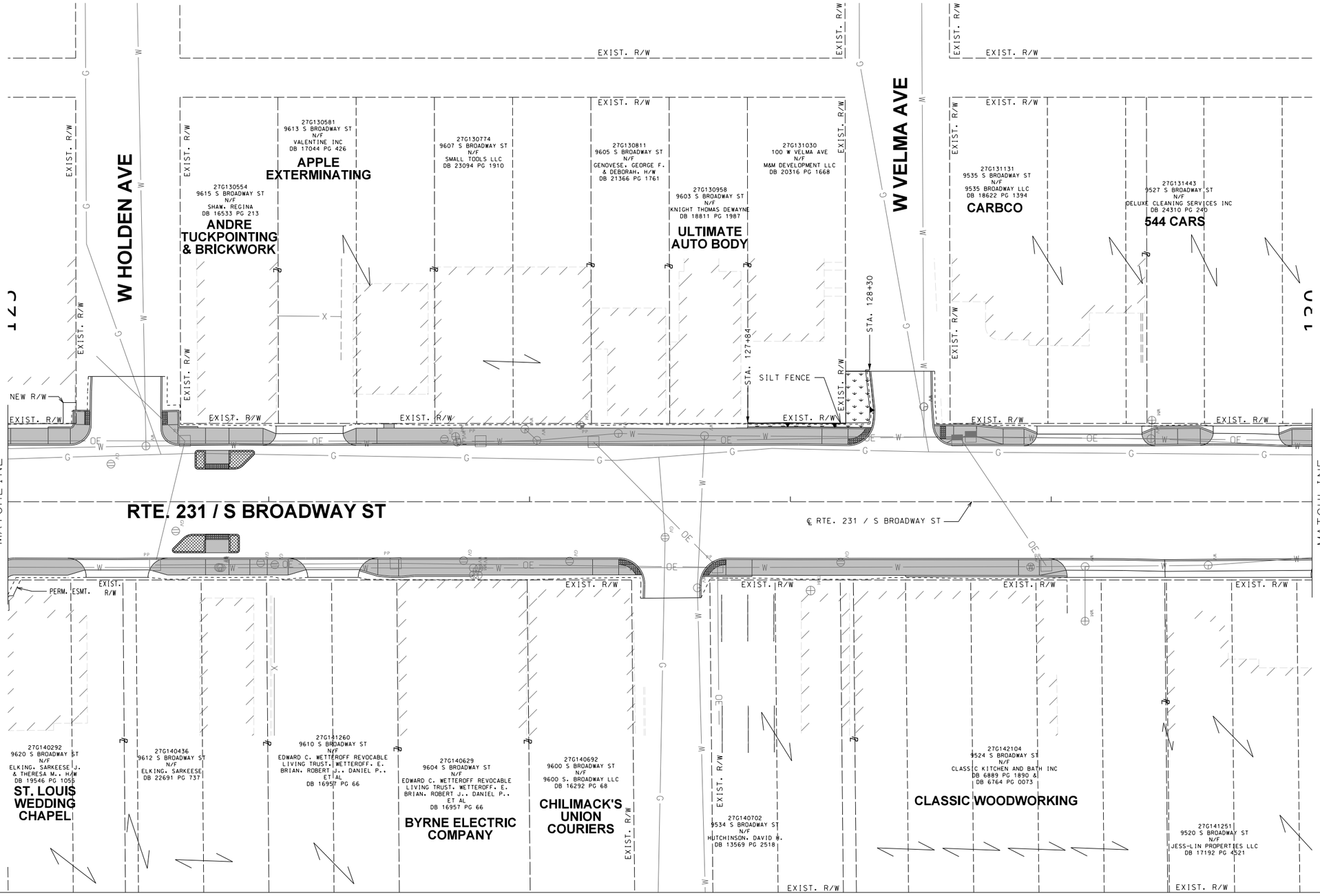
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EROSION CONTROL LEGEND

- SILT FENCE
- TEMPORARY SEEDING AND MULCH
- CURB INLET CHECK (C)
- ROCK DITCH CHECK (R)
- PERMANENT EASEMENT
- EXISTING RIGHT OF WAY
- TEMPORARY EASEMENT
- NEW RIGHT OF WAY

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SCALE

0 20 40 60

EROSION CONTROL PLAN SHEETS
SHEET 23 OF 31

	DATE	DESCRIPTION
LAYOUT	11/2024	
DRAWN	11/2024	
REVIEWED	JAM	
	JAM	

STATE OF MISSOURI
DENNIS J KOSCIELSKI
NUMBER PE-2005000712
PROFESSIONAL ENGINEER

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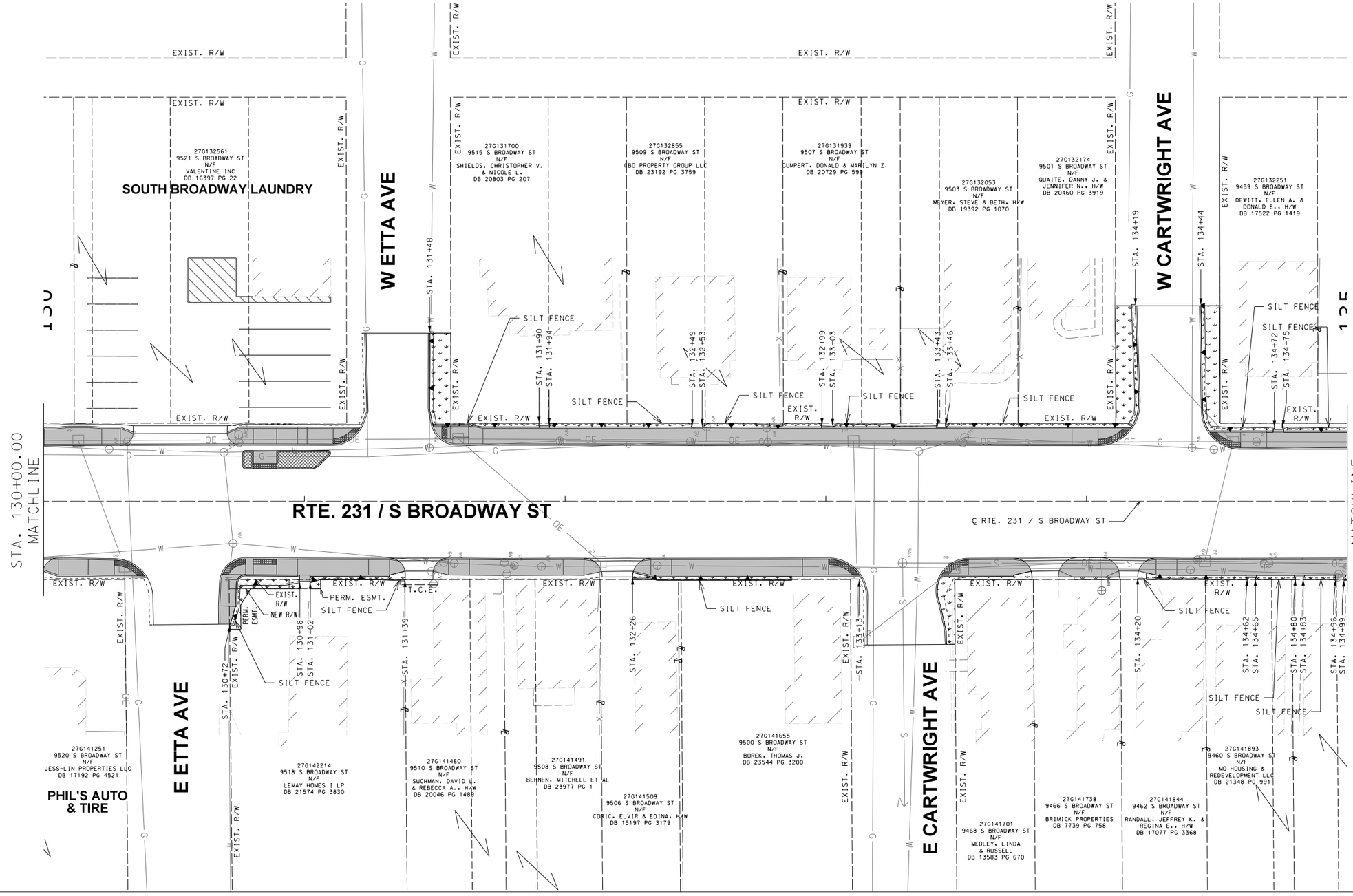
DATE PREPARED	
7/25/2025	
ROUTE	STATE
231	MO
DISTRICT	SHEET NO.
SL	281
COUNTY	
ST. LOUIS	
JOB NO.	
J6S3631	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

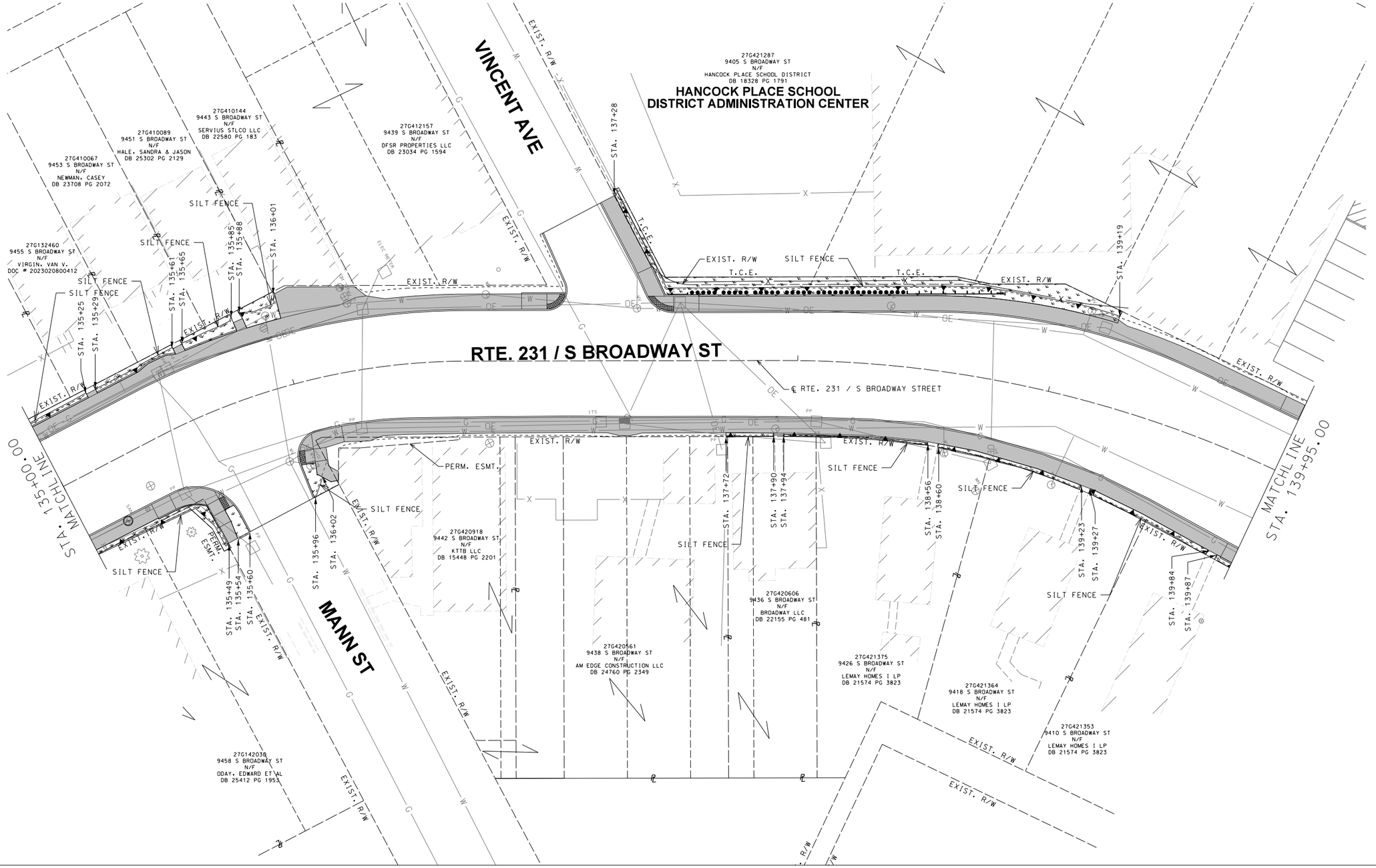
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EXIST. R/W
W ETTA AVE
W CARTWRIGHT AVE
E ETTA AVE
E CARTWRIGHT AVE
STA. 131+48
STA. 134+44
STA. 134+19
27G132561
9521 S BROADWAY ST
N/F
VALENTINE INC
DB 16397 PG 22
SOUTH BROADWAY LAUNDRY
27G131700
9515 S BROADWAY ST
N/F
SHIELDS. CHRISTOPHER V. & NICOLE L.
DB 20803 PG 207
27G132855
9509 S BROADWAY ST
N/F
CBO PROPERTY GROUP LLC
DB 23192 PG 3759
27G131939
9507 S BROADWAY ST
N/F
CUMPERT. DONALD & MARILYN Z.
DB 20729 PG 599
27G132053
9503 S BROADWAY ST
N/F
MEYER. STEVE & BETH. H/W
DB 19392 PG 1070
27G132174
9501 S BROADWAY ST
N/F
QUAITE. DANNY J. & JENNIFER N.. H/W
DB 20460 PG 3919
27G132251
9459 S BROADWAY ST
N/F
DEWITT. ELLEN A. & DONALD E.. H/W
DB 17522 PG 1419
SILT FENCE
STA. 131+90
STA. 131+94
STA. 132+49
STA. 132+53
STA. 132+99
STA. 133+03
STA. 133+43
STA. 133+46
STA. 134+72
STA. 134+75
STA. 130+00.00
MATCHLINE
STA. 135+00.00
MATCHLINE
RTE. 231 / S BROADWAY ST
℄ RTE. 231 / S BROADWAY ST
EXIST. R/W
EXIST. C
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EXIST. UGHD
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EXIST. UGIT
EXIST. UGIU
EXIST. UGIV
EXIST. UGIW
EXIST. UGIX
EXIST. UGIY
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EXIST. UGJX
EXIST. UGJY
EXIST. UGJZ
EXIST. UGKA
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EXIST. UGKC
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EXIST. UGKE
EXIST. UGKF
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EXIST. UGGD
EXIST. UGGE
EXIST. UGGF



EROSION CONTROL LEGEND

- SILT FENCE
- TEMPORARY SEEDING AND MULCH
- CURB INLET CHECK
- ROCK DITCH CHECK
- PERMANENT EASEMENT
- EXISTING RIGHT OF WAY
- TEMPORARY EASEMENT
- NEW RIGHT OF WAY

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SCALE

0 20 40 60

EROSION CONTROL PLAN SHEETS
SHEET 25 OF 31

	DATE	DESCRIPTION
LAYOUT	11/2024	
DRAWN	11/2024	
REVIEWED		

STATE OF MISSOURI
DENNIS J KOSCIELSKI
NUMBER PE-2005000712
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED
7/25/2025

ROUTE	STATE
231	MO
DISTRICT	SHEET NO.
SL	283

COUNTY
ST. LOUIS

JOB NO.
J6S3631

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

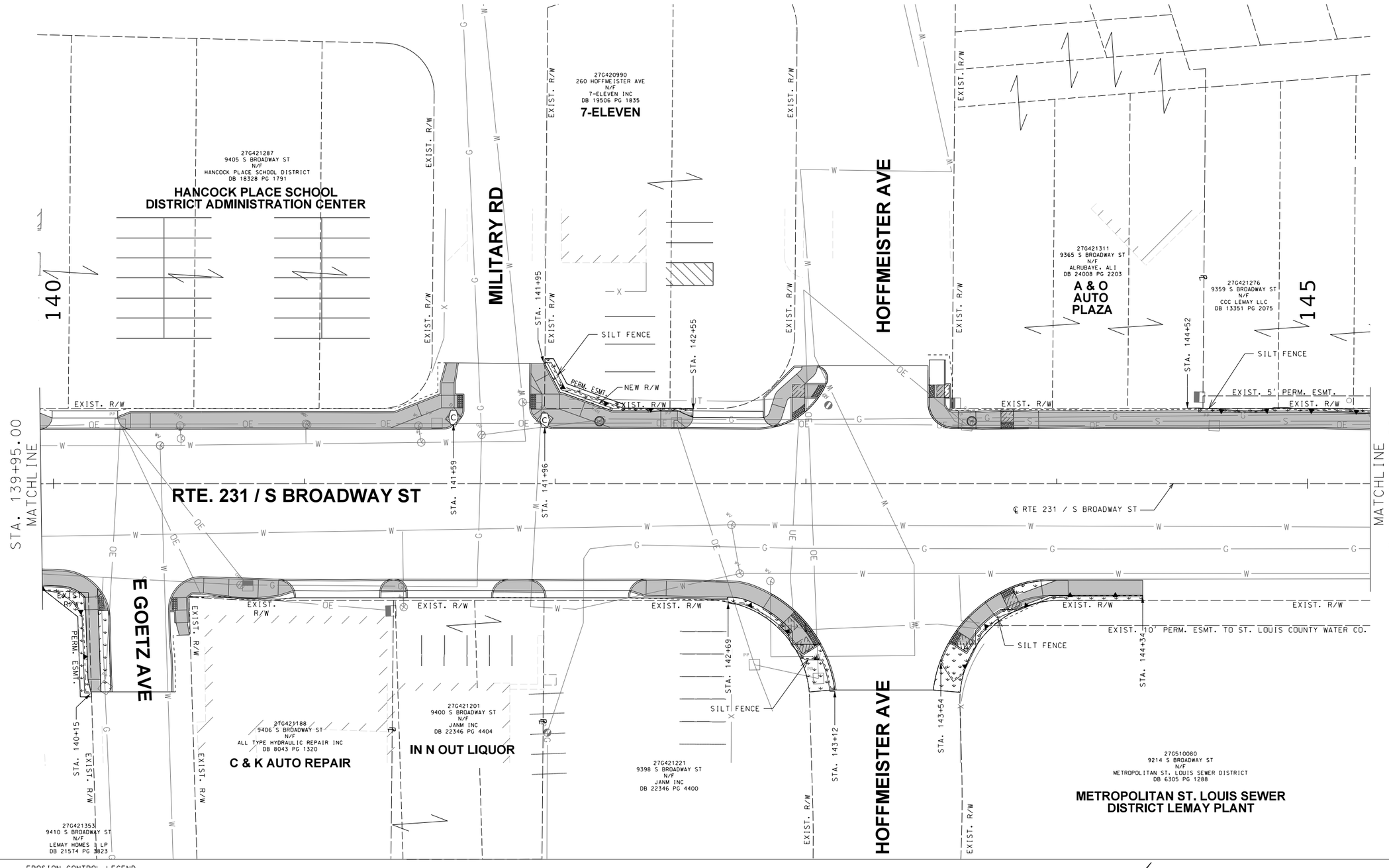
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EROSION CONTROL LEGEND

- SILT FENCE
- TEMPORARY SEEDING AND MULCH
- CURB INLET CHECK
- ROCK DITCH CHECK
- PERMANENT EASEMENT
- EXISTING RIGHT OF WAY
- TEMPORARY EASEMENT
- NEW RIGHT OF WAY

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SCALE
0 20 40 60

EROSION CONTROL PLAN SHEETS
SHEET 26 OF 31

LAYOUT	JAM	11/2024
DRAWN	JAM	11/2024
REVIEWED		

STATE OF MISSOURI
DENNIS J KOSCIELSKI
NUMBER PE-2005000712
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED
7/25/2025

ROUTE	STATE
231	MO
DISTRICT	SHEET NO.
SL	284

COUNTY
ST. LOUIS

JOB NO.
J6S3631

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

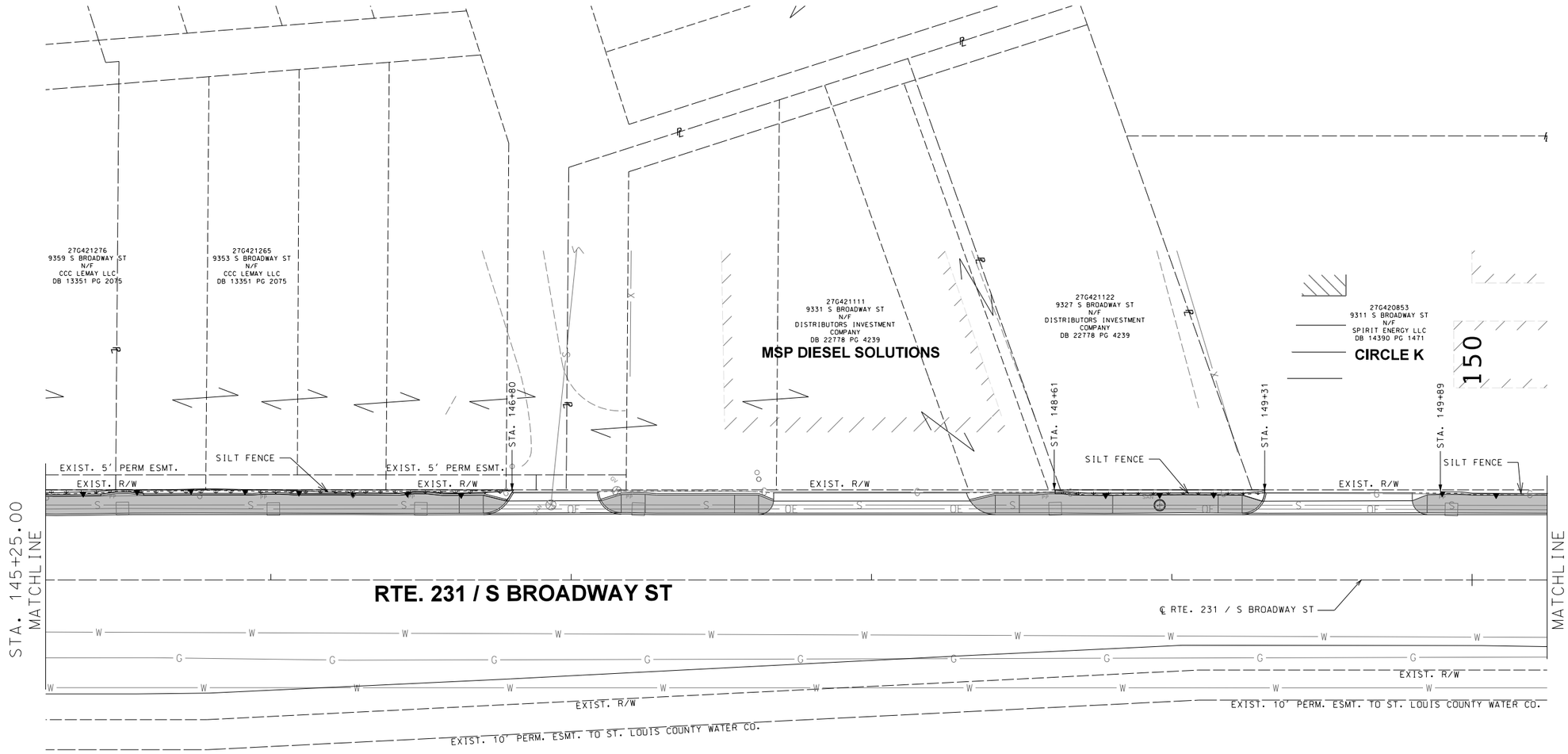
DESCRIPTION	DATE

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27G510080
9214 S BROADWAY ST
N/F
METROPOLITAN ST. LOUIS SEWER DISTRICT
DB 6305 PG 1288

METROPOLITAN ST. LOUIS SEWER DISTRICT LEMAY PLANT

EROSION CONTROL LEGEND

- SILT FENCE
- TEMPORARY SEEDING AND MULCH
- CURB INLET CHECK
- ROCK DITCH CHECK
- PERMANENT EASEMENT
- EXISTING RIGHT OF WAY
- TEMPORARY EASEMENT
- NEW RIGHT OF WAY

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SCALE
0 20 40 60

EROSION CONTROL PLAN SHEETS
SHEET 27 OF 31

LAYOUT	JAM	11/2024
DRAWN	JAM	11/2024
REVIEWED		

STATE OF MISSOURI
DENNIS J KOSCIELSKI
NUMBER PE-2005000712
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED
7/25/2025

ROUTE	STATE
231	MO
DISTRICT	SHEET NO.
SL	285

COUNTY
ST. LOUIS

JOB NO.
J6S3631

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

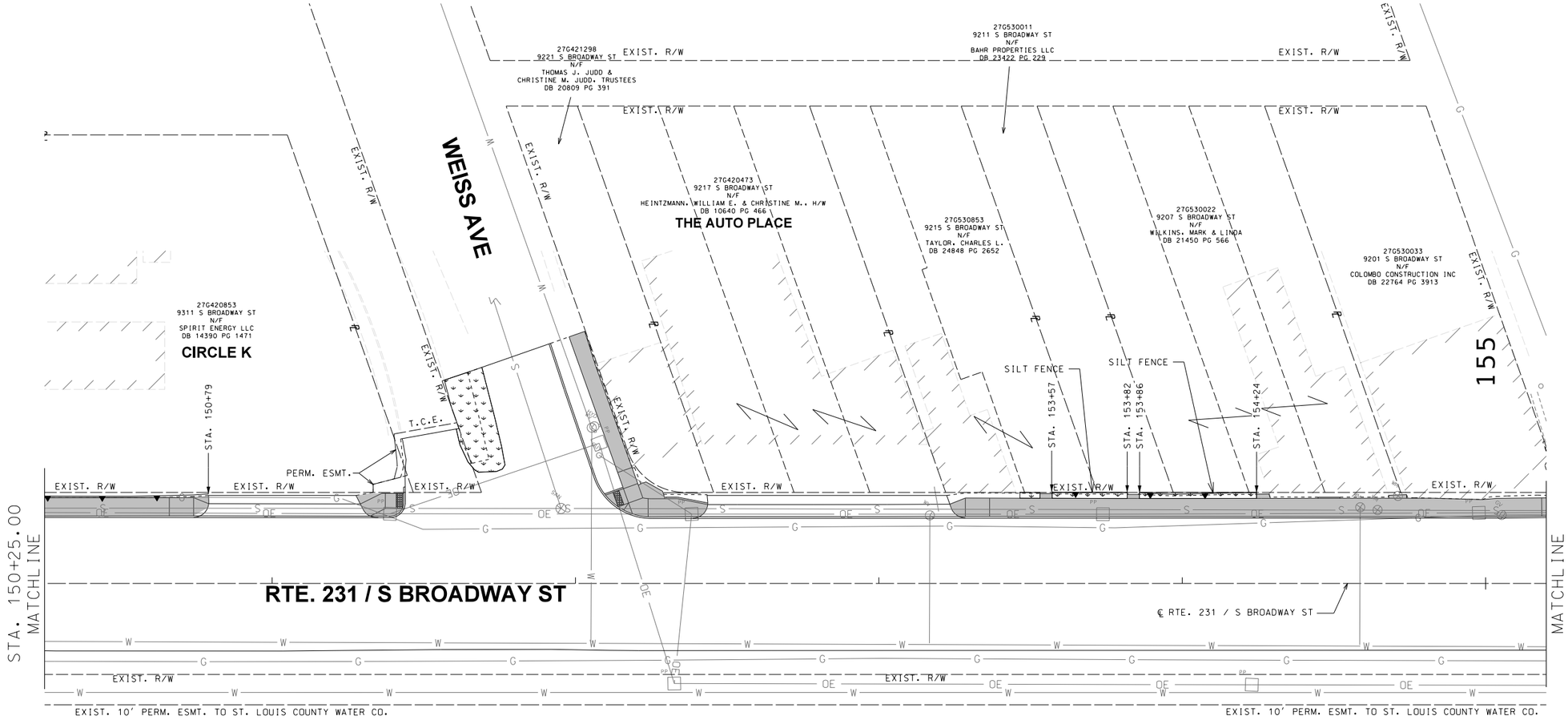
DESCRIPTION	DATE

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27G510080
9214 S BROADWAY ST
N/F
METROPOLITAN ST. LOUIS SEWER DISTRICT
DB 6305 PG 1288

METROPOLITAN ST. LOUIS SEWER DISTRICT LEMAY PLANT

EROSION CONTROL LEGEND

- SILT FENCE
- TEMPORARY SEEDING AND MULCH
- CURB INLET CHECK
- ROCK DITCH CHECK
- PERMANENT EASEMENT
- EXISTING RIGHT OF WAY
- TEMPORARY EASEMENT
- NEW RIGHT OF WAY

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SCALE
0 20 40 60

EROSION CONTROL PLAN SHEETS
SHEET 28 OF 31

	DATE	DESCRIPTION
LAYOUT	11/2024	
DRAWN	JAM	
REVIEWED	11/2024	

STATE OF MISSOURI
DENNIS J KOSCIELSKI
NUMBER PE-2005000712
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED
7/25/2025

ROUTE	STATE
231	MO
DISTRICT	SHEET NO.
SL	286

COUNTY
ST. LOUIS

JOB NO.
J6S3631

CONTRACT ID.

PROJECT NO.

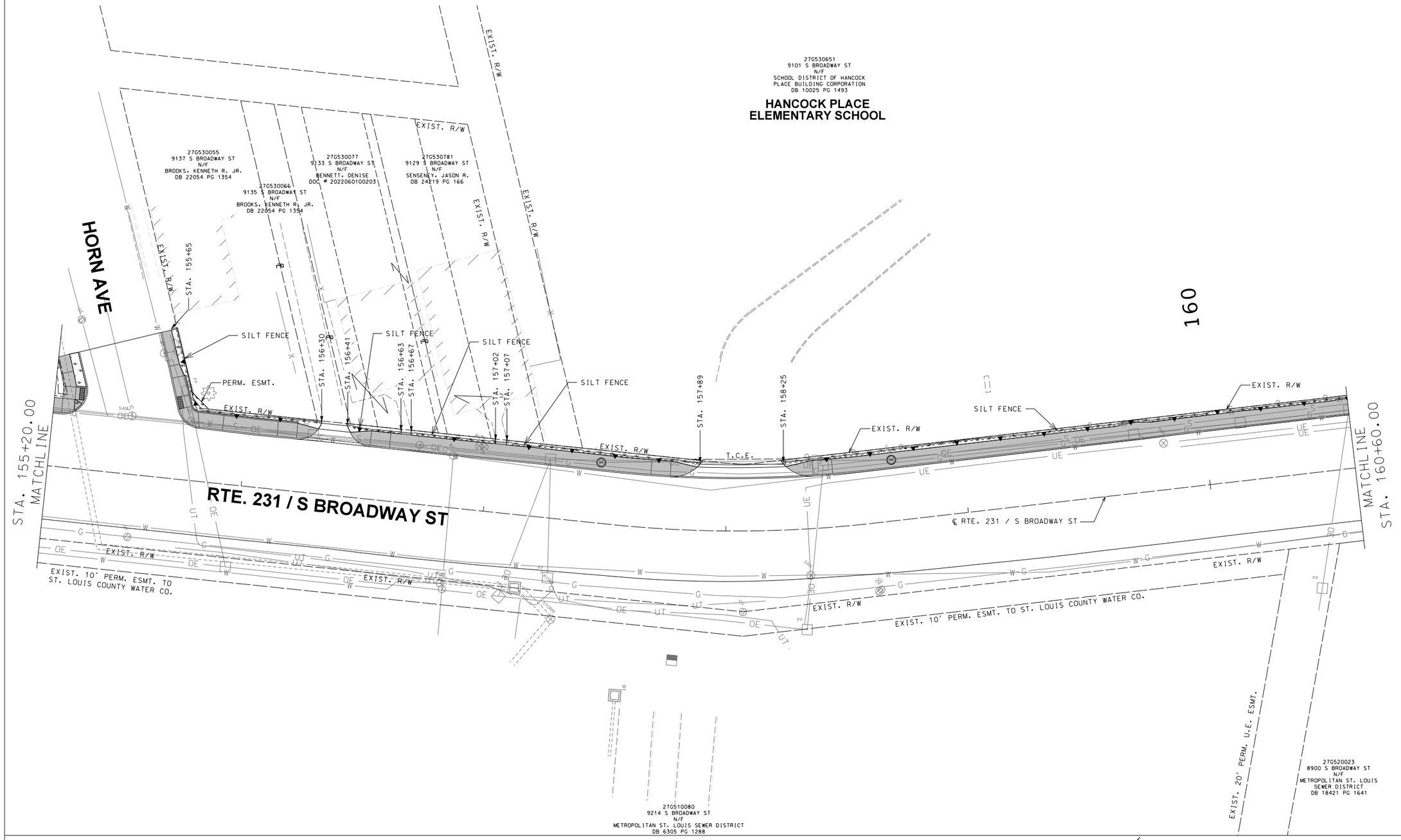
BRIDGE NO.

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EROSION CONTROL LEGEND

- SILT FENCE
- TEMPORARY SEEDING AND MULCH
- (C) CURB INLET CHECK
- (R) ROCK DITCH CHECK
- PERMANENT EASEMENT
- EXISTING RIGHT OF WAY
- TEMPORARY EASEMENT
- NEW RIGHT OF WAY

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SCALE

0 20 40 60

EROSION CONTROL PLAN SHEETS
SHEET 29 OF 31

	DESCRIPTION	DATE
LAYOUT		
DRAWN	JAM	11/2024
REVIEWED	JAM	11/2024

STATE OF MISSOURI
DENNIS J KOSCIELSKI
NUMBER PE-2005000712
PROFESSIONAL ENGINEER

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DATE PREPARED
7/25/2025

ROUTE	STATE
231	MO
DISTRICT	SHEET NO.
SL	287

COUNTY
ST. LOUIS

JOB NO.
J6S3631

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

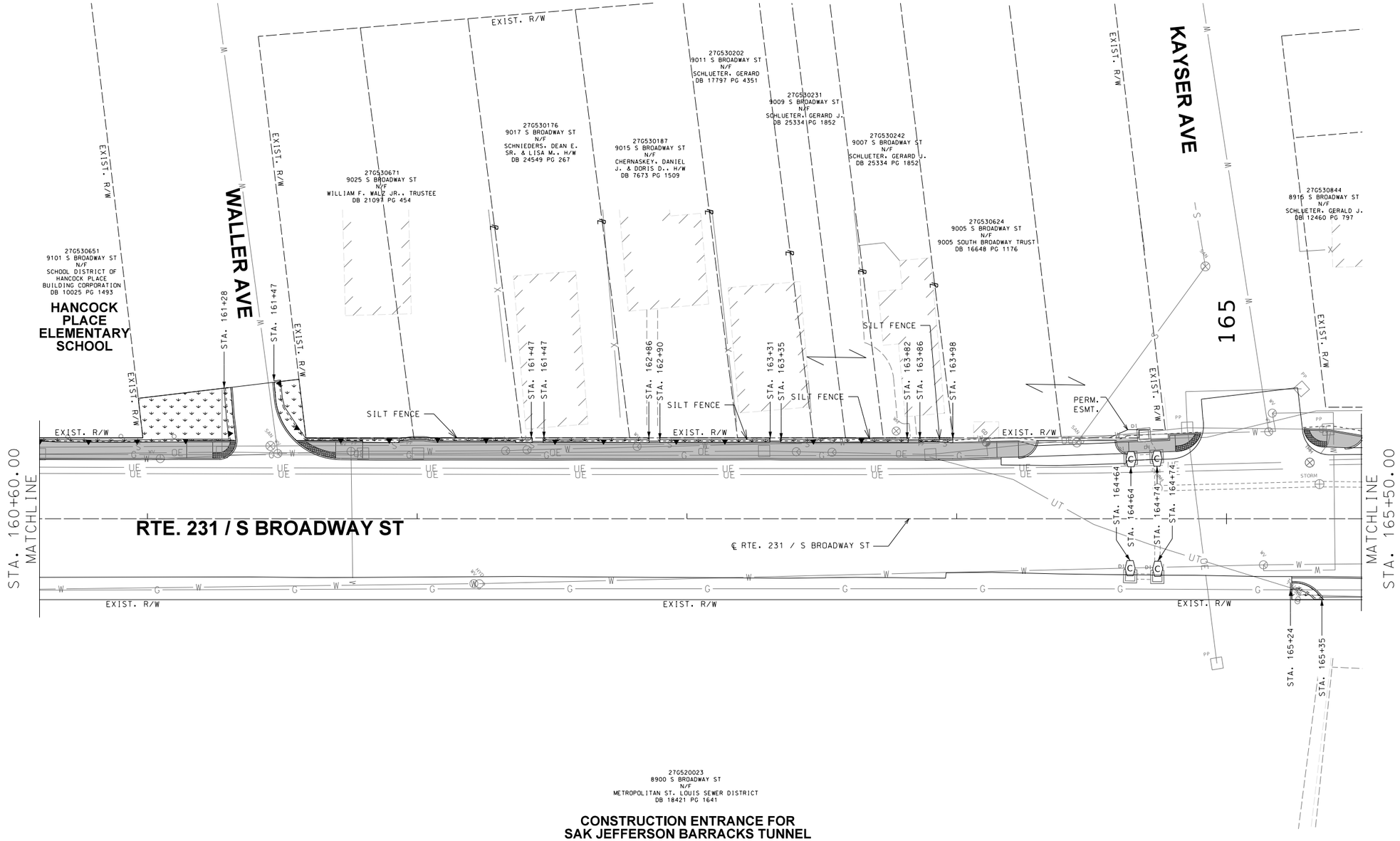
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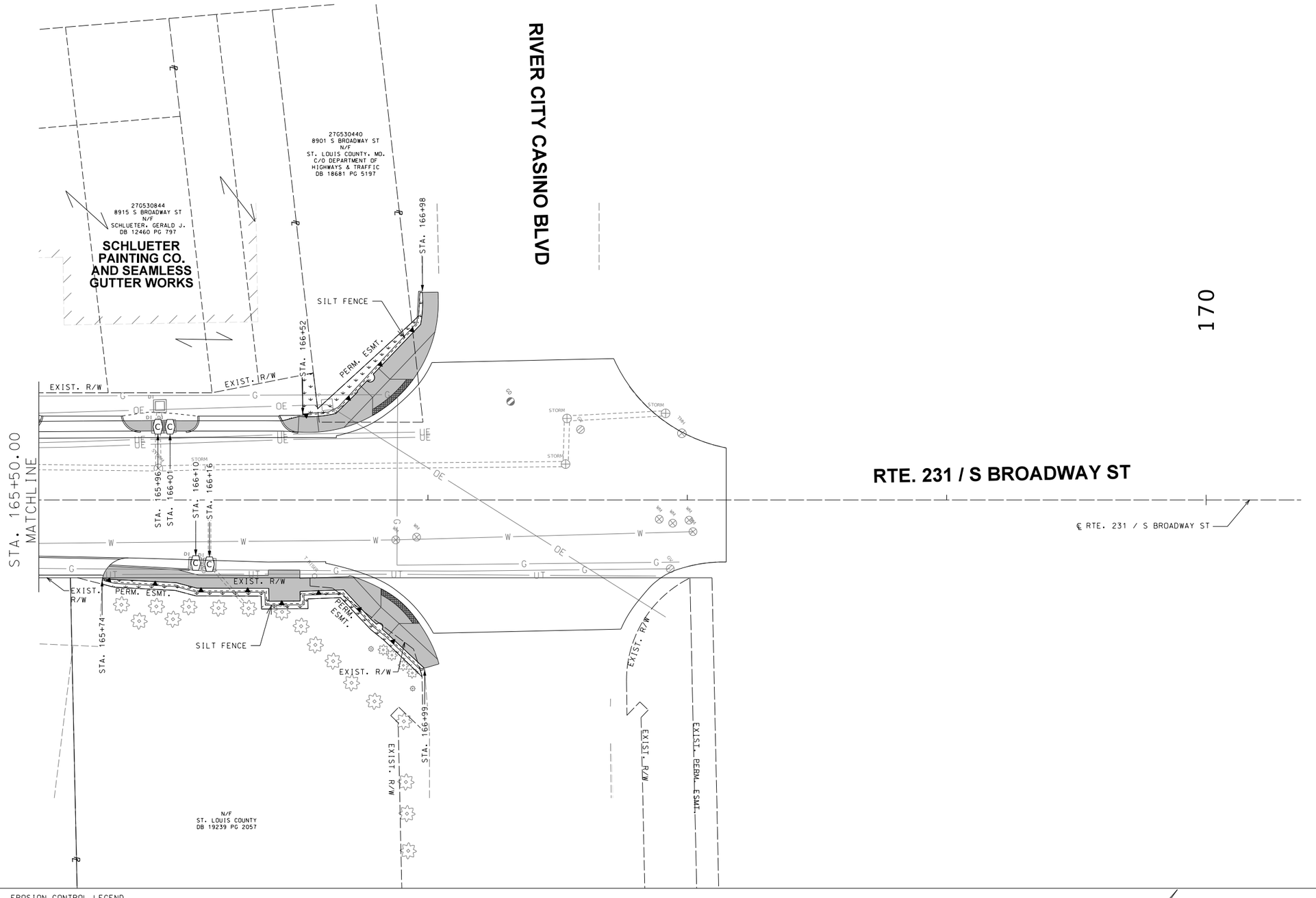
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EXIST. R/W
WALLER AVE
KAYSER AVE
195
27G530651
9101 S BROADWAY ST
N/F
SCHOOL DISTRICT OF HANCOCK PLACE BUILDING CORPORATION
DB 10025 PG 1493
HANCOCK PLACE ELEMENTARY SCHOOL
27G530671
9025 S BROADWAY ST
N/F
WILLIAM F. WALZ JR., TRUSTEE
DB 21091 PG 454
27G530176
9017 S BROADWAY ST
N/F
SCHNIEDERS, DEAN E. SR. & LISA M., H/W
DB 24549 PG 267
27G530187
9015 S BROADWAY ST
N/F
CHERNASKEY, DANIEL J. & DORIS D., H/W
DB 7673 PG 1509
27G530202
9011 S BROADWAY ST
N/F
SCHLUETER, GERARD
DB 17797 PG 4351
27G530231
9009 S BROADWAY ST
N/F
SCHLUETER, GERARD J.
DB 25334 PG 1852
27G530242
9007 S BROADWAY ST
N/F
SCHLUETER, GERARD J.
DB 25334 PG 1852
27G530624
9005 S BROADWAY ST
N/F
9005 SOUTH BROADWAY TRUST
DB 16648 PG 1176
27G530844
8916 S BROADWAY ST
N/F
SCHLUETER, GERALD J.
DB 12460 PG 797
STA. 161+28
STA. 161+47
STA. 161+47
STA. 161+47
STA. 162+86
STA. 162+90
STA. 163+31
STA. 163+35
STA. 163+82
STA. 163+86
STA. 163+98
SILT FENCE
SILT FENCE
SILT FENCE
PERM. ESMT.
STA. 164+64
STA. 164+64
STA. 164+74
STA. 164+74
STA. 160+60.00
MATCHLINE
STA. 165+50.00
MATCHLINE
RTE. 231 / S BROADWAY ST
℄ RTE. 231 / S BROADWAY ST
STA. 165+24
STA. 165+35
EXIST. R/W
EXIST. R/W
EXIST. R/W



EROSION CONTROL LEGEND

- SILT FENCE
- TEMPORARY SEEDING AND MULCH
- (C) CURB INLET CHECK
- (R) ROCK DITCH CHECK
- PERMANENT EASEMENT
- EXISTING RIGHT OF WAY
- TEMPORARY EASEMENT
- NEW RIGHT OF WAY

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SCALE
0 20 40 60

EROSION CONTROL PLAN SHEETS
SHEET 31 OF 31

LAYOUT	JAM	11/2024
DRAWN	JAM	11/2024
REVIEWED		

STATE OF MISSOURI
DENNIS J KOSCIELSKI
NUMBER PE-2005000712
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED
7/25/2025

ROUTE	STATE
231	MO
DISTRICT	SHEET NO.
SL	289

COUNTY
ST. LOUIS

JOB NO.
J6S3631

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION	DATE

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

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JEFFERSON CITY, MO 65102
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TRAFFIC SIGNALS & LIGHTING LEGEND

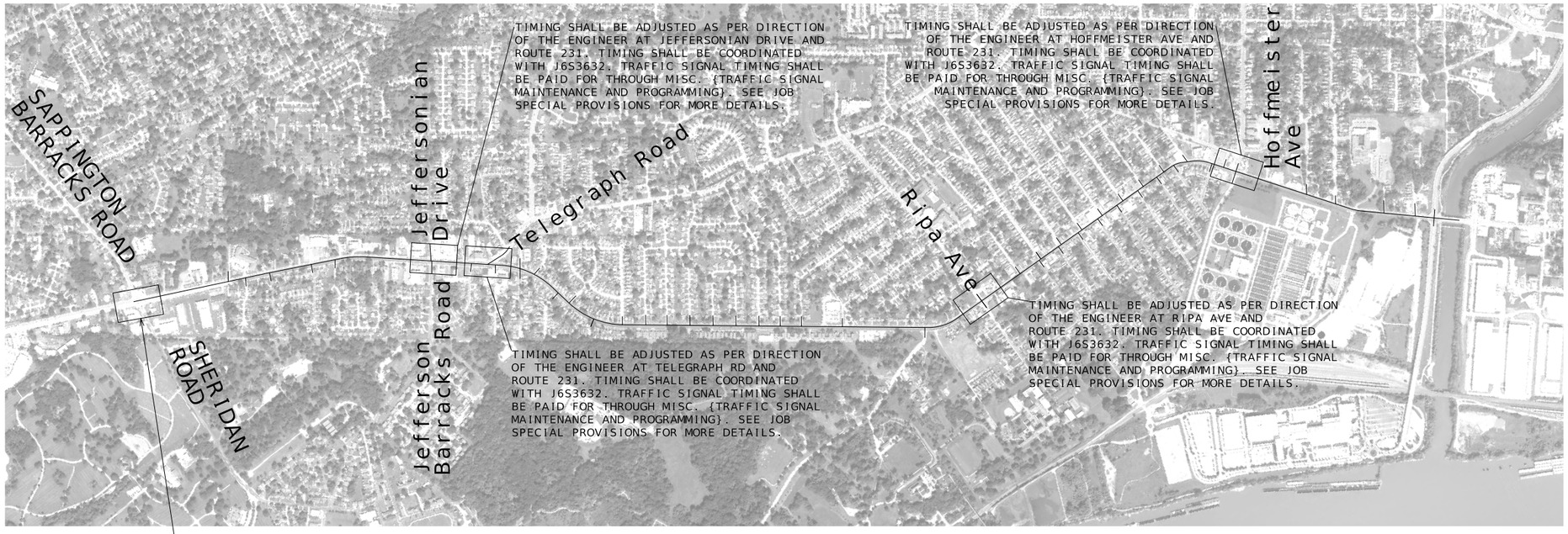
- CONTROLLER
- CONTROLLER (EXISTING)
- POWER SUPPLY
- POWER SUPPLY (EXISTING)
- SIGNAL HEAD (STANDARD)
- SIGNAL HEAD (PEDESTRIAN)
- SIGNAL HEAD (EXISTING)
- SIGNAL HEAD (EXISTING PEDESTRIAN)
- MAST ARM TYPE A BASE
- MAST ARM TYPE F BASE
- MAST ARM (EXISTING)
- SIGNAL POST TYPE C BASE
- SIGNAL POST (EXISTING)
- VIDEO DETECTOR
- VIDEO DETECTOR (EXISTING)
- PUSH BUTTON DETECTOR
- PUSH BUTTON DETECTOR (EXISTING)
- PREFORMED PULL BOX TYPE 1
- PULL BOX (EXISTING)
- VIDEO DETECTION ZONE
- CONDUIT (PUSHED)
- CONDUIT (TRENCHED)
- CONDUIT (EXISTING)
- BRACKET ARM MOUNTED LED-A LUMINAIRE
- BRACKET ARM MOUNTED LED-A LUMINAIRE (EXISTING)
- TOP-MOUNTED LED-A LUMINAIRE

NOTES:

1. ALL PEDESTRIAN HEADS SHALL BE COUNTDOWN TYPE HEADS.
2. ALL PUSH BUTTONS SHALL BE APS PUSH BUTTONS.
3. CONNECTION OF WIRES AND CONFIGURATION OF PEDESTRIAN HEADS AND PUSH BUTTON DETECTORS IN EXISTING CONTROLLERS INCLUDED IN UNIT PRICE FOR SIGNAL WIRE.
4. COORDINATE CURB RAMP & LANDING CONSTRUCTION WITH SIGNAL PLANS.
5. ALL PUSH BUTTONS REQUIRE SIGN R10-3E (9"X15") TO BE INSTALLED ABOVE THEM.
6. DRILLING EXISTING PULL BOX & CONNECTING CONDUIT IN PULL BOX SHALL BE INCLUDED IN UNIT PRICE FOR CONDUIT.
7. WHERE PULL BOXES ARE TO BE REMOVED, EXISTING CABLE SHALL BE PULLED AND DISPOSED OF. EXISTING CONDUIT SHALL BE ABANDONED IN PLACE. THESE REMOVALS SHALL BE INCLUDED IN THE UNIT PRICE FOR REMOVAL OF THE PULL BOX.

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INTERSECTION	SIGNAL SHEET NUMBER
JEFFERSON BARRACKS ROAD/ JEFFERSONIAN DRIVE	2
TELEGRAPH ROAD	8
RIPA AVE	14
HOFFMEISTER AVE	20



CONTRACTOR SHALL COORDINATE SIGNAL TIMING WITH J6S3632 AT THE INTERSECTION OF SAPPINGTON BARRACKS ROAD AND ROUTE 231.

LAYOUT	NS	01/2025
DRAWN	SMC	01/2025
REVIEWED	DJK	01/2025

SIGNAL SHEETS
SHEET 1 OF 43

I:\22jobs\22H0100\CAD\Road\Sheet\290_SG_01_J6S3631_I10.dgn

STATE OF MISSOURI
DENNIS J KOSCIELSKI
NUMBER PE-2005000712
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED
7/15/2025

ROUTE	STATE
231	MO
DISTRICT	SHEET NO.
SL	290

COUNTY
ST. LOUIS

JOB NO.
J6S3631

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION	DATE

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MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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SCALE
0 10 20 30

℄ JEFFERSONIAN DR
EXIST. COMB. PAD MOUNTED POWER SUPPLY AND LIGHTING CONTROLLER (R)
EXIST. SIGNAL CONTROLLER (R)
EXIST. SIGNAL POST (R)
COMB. PAD MOUNTED 120/240 VOLT POWER SUPPLY AND LIGHTING CONTROLLER WITH UPS
8' POST
EXIST. 10' PERM. ESMT.
PROP. SIGNAL CONTROLLER
EXIST. PULL BOX (R)
EXIST. LIGHT POST (R)
EXIST. R/W
EXIST. SIGNAL POST (R)
SIDEWALK
4' BICYCLE LANE
10.5' LANE
40' MAST ARM
NEXT SIGNAL 3400' SAPPINGTON BARRACKS RD
2.05%
SPEED LIMIT = 40 MPH
R3-5L
11' LANE
RTE. 231/TELEGRAPH RD
10.5' LANE
S.L.
14' LANE
NEXT SIGNAL N/A 6.06% SPEED LIMIT = 25 MPH
JEFFERSONIAN DR
EXIST. R/W
20' MAST ARM
EXIST. PULL BOX (R)
EXIST. SIGNAL POST (R)
NEW R/W
8' POST
UT
OE
UE
SIGN
SIDEWALK
5' BICYCLE LANE
10.5' LANE
RTE. 231/TELEGRAPH RD
11' LANE
NEXT SIGNAL 600' TELEGRAPH RD/KINGSTON DR
1.45%
SPEED LIMIT = 40 MPH
10.5' LANE
45' MAST ARM
R10-12
R10-27a
D3-1
Telegraph Rd
D3-1B
Jefferson Barracks Rd
Jeffersonian Dr
LEFT TURN YIELD ON GREEN
LEFT TURN YIELD ON FLASHING ARROW
℄ RTE. 231 / TELEGRAPH RD
82°41'0"
86°28'14"
R 35'
R 30'
R 40'
DW FDW W
R Y G
RL YL FYL L
EXIST. PULL BOX (R)
EXIST. SIGNAL POST (R)
EXIST. LIGHT POST (R)
EXIST. 5' PERM. ESMT.
T.C.E.
8' POST
S.L.
EXIST. R/W
SIDEWALK
4' BICYCLE LANE
5' BICYCLE LANE
25' MAST ARM
14.5' LANE
12' LANE
NEXT SIGNAL N/A 4.83% SPEED LIMIT = 30 MPH
℄ JEFFERSON BARRACKS RD
JEFFERSON BARRACKS RD
BUSH ROW
JEFFERSONIAN DR WEST
RTE. 231 SOUTH
RTE. 231 NORTH
JEFFERSON BARRACKS RD EAST
742(1188)
639(1032)
44(119)
23(97)
9(37)
28(29)
11(16)
44(25)
8(32)
965(875)
84(88)
1063(995)
139(223)
75(127)
6(28)
54(95)
TRAFFIC FLOW DIAGRAM
ESTIMATED - 2045
TRAFFIC VOLUME
AM(PM) PEAK HOUR

START CROSSING Watch For Vehicles
DON'T START Finish Crossing If Started
TIME REMAINING To Finish Crossing
DON'T CROSS
PUSH BUTTON TO CROSS
R10-3eL (22) (62)
R10-3eR (23) (42) (43) (63) (82) (83)
INSTALLED ABOVE PUSH BUTTONS (INCLUDED IN COST FOR ACCESSIBLE PEDESTRIAN SIGNAL)

LAYOUT	NS	01/2025
DRAWN	SMC	01/2025
REVIEWED	DJK	01/2025

STATE OF MISSOURI · DENNIS J KOSCIELSKI · NUMBER PE-2005000712 · PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED 7/15/2025
ROUTE 231 | STATE MO
DISTRICT SL | SHEET NO. 291
COUNTY ST. LOUIS
JOB NO. J6S3631
CONTRACT ID.
PROJECT NO.
BRIDGE NO.

DESCRIPTION	DATE

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

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ROUTE 231/TELEGRAPH ROAD
JEFFERSONIAN DRIVE/
JEFFERSON BARRACKS ROAD

SIGNAL SHEETS
SHEET 2 OF 43

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EFFECTIVE: 07/01/2018

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POST NUMBER	PULL BOX NUMBER	LOCATION APPROACH	STATION	OFFSET	BASE A 9	A 9.5	A 10	A 10.5	A 11	A 12	F 9	F 9.5	F 10	F 10.5	F 11	F 12	C	CONCRETE** (CU. YDS.)	PULL BOX PREFORMED CLASS 1	CLASS 2	CLASS 3	CLASS 5	CONCRETE STANDARD	DOUBLE, TYPE A	DOUBLE, TYPE B	DRAIN TYPE* I	II A	II B	II C	POST TOP MOUNT POST 8 FT.	15 FT.
		CONTROLLER	(AS REQ'D)															2.00													
1		MO 231	39+78.20	38.50'LT				1										3.27													
2		MO 231	40+00.46	48.96'LT													1	0.44												1	
3		MO 231	39+87.41	38.00'LT													1	0.44												1	
4		MO 231	40+09.38	52.84'RT							1							2.36													
5		MO 231	36+96.96	46.60'RT													1	0.44												1	
6		MO 231	40+86.32	40.02'RT										1				2.75													
7		MO 231	40+74.28	55.38'RT													1	0.44												1	
8		MO 231	40+50.56	56.81'LT							1							2.36													
9		MO 231	40+80.43	44.50'LT													1	0.44												1	
	1	MO 231	39+90.82	49.06'LT																	1										
	2	MO 231	40+07.90	56.85'RT																	1										
	3	MO 231	40+78.35	46.69'RT																1											
	4	MO 231	40+72.23	44.70'LT																1											
SUBTOTAL																		14.94		2	2								5	
TOTAL																		15.0		2	2								5	

POST TYPE C & CL ARM LENGTH A	A	A	A	SIGNAL SPACING B	C	D	D'	SIGN SPACING B	C	D	D'	TYPE B & BL ARM LENGTH E	K	E	K	E	K	LEFT ARM E SIGNAL SPACING F	G	H	H'	SIGN SPACING F	G	H	H'	RIGHT ARM K SIGNAL SPACING L	M	N	N'	SIGN SPACING L	M	N	N'	INCLUDED ANGLE	LUMINAIRE BRACKET ARM* 4 FT.	6 FT.	8 FT.	10 FT.	12 FT.	15 FT.
	40			17.3	10.5	10.5		4.8	28	5.5																												1	
	25			16.2	8			4.3	16.9																														1
			45	21.8	10.5	11		4.8	32.5	6																												1	
			20	8.6	8			4.3	9.4																												1	

NOTES:

1. INCLUDED IN COST OF P.S.
2. INCLUDED IN COST OF VIDEO DETECTION SYSTEM.
3. ALL LENGTHS ARE IN FEET UNLESS OTHERWISE INDICATED.

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CONDUIT (WITH #14 TRACER WIRE)

FROM	TO	CENTER TO CENTER DISTANCE	LOOP DET.	TRENCH				PUSHED			MEDIAN			ON STRUCTURE			REMARKS
			1"	2"	3"	4"		2"	3"	4"	2"	3"	4"	2"	3"		
PP	∅	(74)		(78)													SEE NOTE 1.
∅	⊠	4		12													
∅	1	6			9												
⊠	1	6			18												
1	(1)	17			20												
1	(2)	10			11												
1	(3)	9			10												
1	2	108						106									
2	(4)	5			8												
2	(5)	20			21												
2	3	72						70									
3	(6)	11			14												
3	(7)	12			13												
1	4	83						81									
4	(8)	26			27												
4	(9)	9			10												
SUBTOTALS				12	161			(4)	257								
TOTALS				12	161			(4)	257								

CABLE

FROM	TO	CENTER TO CENTER DISTANCE	POWER		CONTROL				CLOSED LOOP INTERCONNECT	LUMINAIRE		DETECTOR			FIBER		REMARKS
			1c #2	1c #8	2c #16	5c #16	7c #16	3c #16	3 PAIR #16	CONTROL 2c #12	POLE & BRACKET 1c #10	1c #14 IN DUCT	2c #14 LEAD-IN CABLE	SL CABLE	SINGLE-MODE	MULTI-MODE	
PP	∅	0	(351)														SEE NOTE 1.
∅	⊠	4		60													
⊠	10	23					97										
⊠	V1	23												(94)			SEE NOTE 2.
⊠	60	23					86										
⊠	61	23					76										
⊠	62	16				40											
⊠	63	16			39												
⊠	43	15				39											
⊠	42	15			38												
⊠	40	119					178										
⊠	V2	119												(178)			SEE NOTE 2.
⊠	41	119					170										
⊠	23	119				149											
⊠	22	119			148												
⊠	42	134				164											
⊠	43	134			163												
⊠	50	197					286										
⊠	V3	197												(282)			SEE NOTE 2.
⊠	20	197					275										
⊠	21	197					264										
⊠	83	197				233											
⊠	82	197			232												
⊠	22	198				234											
⊠	23	198			233												
⊠	80	115					173										
⊠	V4	115												(175)			SEE NOTE 2.
⊠	81	115					165										
⊠	63	115				145											
⊠	62	115			144												
⊠	82	98				128											
⊠	83	98			127												
∅	(1)	23								37							
∅	(4)	119								139							
(4)	(6)	81								93							
(1)	(8)	119								131							
(1)	◩	0									45						LUMINAIRE
(4)	◩	0									43						LUMINAIRE
(6)	◩	0									45						LUMINAIRE
(8)	◩	0									43						LUMINAIRE
SUBTOTALS			(129)	60	1123	1132	1770			400	176			(729)			
TOTALS			(140)	70	1190	1190	1860			420	190			(770)			INCLUDES 5% FOR SNAKING

LAYOUT	NS	01/2025
DRAWN	SMC	01/2025
REVIEWED	DJK	01/2025

SIGNAL SHEETS
SHEET 4 OF 43

INTERSECTION ROUTE 231/TELEGRAPH ROAD & JEFFERSONIAN DRIVE. JEFFERSON BARRACKS ROAD

D-37B

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STATE OF MISSOURI · DENNIS J KOSCIELSKI · NUMBER PE-2005000712 · PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED 7/15/2025
ROUTE 231 | STATE MO
DISTRICT SL | SHEET NO. 293
COUNTY ST. LOUIS
JOB NO. J6S3631
CONTRACT ID.
PROJECT NO.
BRIDGE NO.

DESCRIPTION | DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

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EFFECTIVE 04-01-2018

POWER SUPPLY

LOCATION			POWER SUPPLY ASSEMBLY		CIRCUIT BREAKER TRIP RATING*				LIGHTING CONTROL * (ON POWER SUPPLY)		SERVICE POLE	
					CONTROLLER		POWER SUPPLY DISCONNECT					
APPROACH	STATION	OFFSET	DRAWING 902.15	SPECIAL DRAWING (4)	AUXILIARY BREAKER	CONT & SIGNAL LAMPS	MAIN BREAKER		120 VOLT CONTROL CABINET	MAIN BREAKER	CONTRACT FURNISH	UTILITY COMPANY
							SIGNALS	LIGHTING				
MO 231	39+86.93	55.67'LT	Type	1	15 Amps	Amps	100 Amps	Amps		Amps	Cl. Ft.	AMEREN
			Type		15 Amps	Amps	Amps	Amps		Amps	Cl. Ft.	

CONTROLLER ASSEMBLY AND AUXILIARY EQUIPMENT

LOCATION			SYSTEM MASTER (CLOSED LOOP)		ACTUATED		ON-OFF* SWITCH		COORDINATION INTERFACE *						TIME * CLOCK	NEMA CABINET TYPE *			170 CABINET TYPE *		170 SOFTWARE *	
							TYPE		12C/7C HARDWIRE (1)		TIME BASE	CLOSED LOOP		FIBER								
APPROACH	STATION	OFFSET	NEMA	170	NEMA	170	I	II	MASTER	LOCAL		NEMA	170			E	EV	DOUBLE	332	336S	BITRAN	WAPITI
MO 231	39+82.92	52.05'LT			1												1					

NEMA DETECTOR ASSIGNMENT

		CARD POSITION							
		1	2	3	4	5	6	7	8
CHANNEL	1			SL DETECTION (3)					
	2								

TOTAL NUMBER OF DETECTOR CARDS(2-CHANNEL) = 0(2)

DETECTOR SCHEDULE

DETECTOR NUMBER	APPROACH	TYPE				
		PUSH BUTTON	INDUCTION LOOP (2)			SL DETECTION (3)
			STANDARD	DELAY/ EXTEND *	CALL UNIT *	
22	NB MO 231	1				
23	SB MO 231	1				
42	EB JEFFERSONIAN	1				
43	WB JEFFERSON BARRACKS	1				
62	SB MO 231	1				
63	NB MO 231	1				
82	WB JEFFERSON BARRACKS	1				
83	EB JEFFERSONIAN	1				
10	SB MO 231					V1
60	SB MO 231					V1
61	SB MO 231					V1
64	SB MO 231					V1
40	EB JEFFERSONIAN					V2
50	NB MO 231					V3
20	NB MO 231					V3
21	NB MO 231					V3
24	NB MO 231					V3
80	WB JEFFERSON BARRACKS					V4
TOTAL		8				

* ITEMS FOR WHICH SEPARATE PAYMENT WILL NOT BE MADE.

*** USE D3-1 FOR ONE LINE. USE D3-1B FOR TWO LINE.

(1) MoDOT "D" PLUG SHALL BE WIRED INTO ALL NEMA CONTROLLERS WITH 7C HARDWIRE INTERCONNECT.

(2) PAYMENT IS MADE FOR THE NUMBER OF 2-CHANNEL DETECTOR CARDS AS SHOWN BELOW THE ASSIGNMENT CHART.

(3) SEE SL DETECTION SYSTEM JSP FOR ADDITIONAL DETAILS. SIGNAL DETECTION SHALL BE PAID AS 1 PER INTERSECTION. THE CONTRACTOR SHALL PROVIDE AND INSTALL A VEHICLE DETECTION SYSTEM FULLY COVERING DETECTION ZONES AS SHOWN ON THE PLANS. THE METHOD CHOSEN SHALL COMPLY WITH MODOT'S STANDARDS AND SPECIFICATIONS. ALL EQUIPMENT USED IN THE SYSTEM SHALL BE IN ACCORDANCE WITH MODOT'S APPROVED PRODUCT LIST AND RECEIVE ST. LOUIS DISTRICT APPROVAL PRIOR TO INSTALLATION. THIS WILL BE A COMPLETE UNIT WITH ALL COSTS INCLUDED.

(4) POWER SUPPLY SHALL BE PAD MOUNTED 120V/240V SIGNAL POWER SUPPLY & LIGHTING CONTROLLER WITH UNINTERRUPTIBLE POWER SUPPLY. SEE DETAILS.

SIGNAL SIGNS

QUANTITY	MUTCD SIGN NUMBER	SIZE	AREA	SIGN TOTAL AREA ITEM NO. 90208.33	SIGNAL SIGN MOUNTING HARDWARE ITEM NO. 90208.34
		INCHES	SQ.FT.	SQ.FT.	EA.
	R10-10L	24 X 30	5.0		
	R10-10R	24 X 30	5.0		
2	R3-5L	30 X 36	7.5	15.0	2
	R3-5R	30 X 36	7.5		
	R3-5A	30 X 36	7.5		
	R3-6L	30 X 36	7.5		
	R3-6R	30 X 36	7.5		
	R3-2	24 X 24	4.0		
	R3-1	24 X 24	4.0		
	R3-3	24 X 24	4.0		
2	D3-1 ***	78 X 18	9.8	19.5	2
2	D3-1B ***	90 X 18	11.3	22.5	2
	R10-3E	9 X 15	0.9		
	R10-11A	24 X 30	5.0		
	R10-13	36 X 24	6.0		
2	R10-27A	30 X 36	7.5	15.0	2
2	R10-12	30 X 36	7.5	15.0	2
			SUBTOTAL	87.0	10
			TOTAL	87.0	10

SL DETECTION (3)

TOTAL = 1 EACH

COMBINATION PAD MOUNTED 120V/240V POWER SUPPLY AND LIGHTING CONTROLLER WITH UPS

TOTAL = 1 EACH

NEMA LOAD SWITCH ASSIGNMENTS (16 - POSITION)

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
PHASE 1	PHASE 2		PHASE 4	PHASE 5	PHASE 6		PHASE 8	OLA	OLB	OLC		PH2 PED	PH4 PED	PH6 PED	PH8 PED

LAYOUT	NS	01/2025
DRAWN	SMC	01/2025
REVIEWED	DJK	01/2025

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED 7/15/2025

ROUTE	STATE
231	MO
DISTRICT	SHEET NO.
SL	294

COUNTY: ST. LOUIS

JOB NO. J6S3631

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION	DATE

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

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ROUTE 231/TELEGRAPH ROAD
JEFFERSONIAN DRIVE/
JEFEFERSON BARRACKS ROAD

INTERSECTION

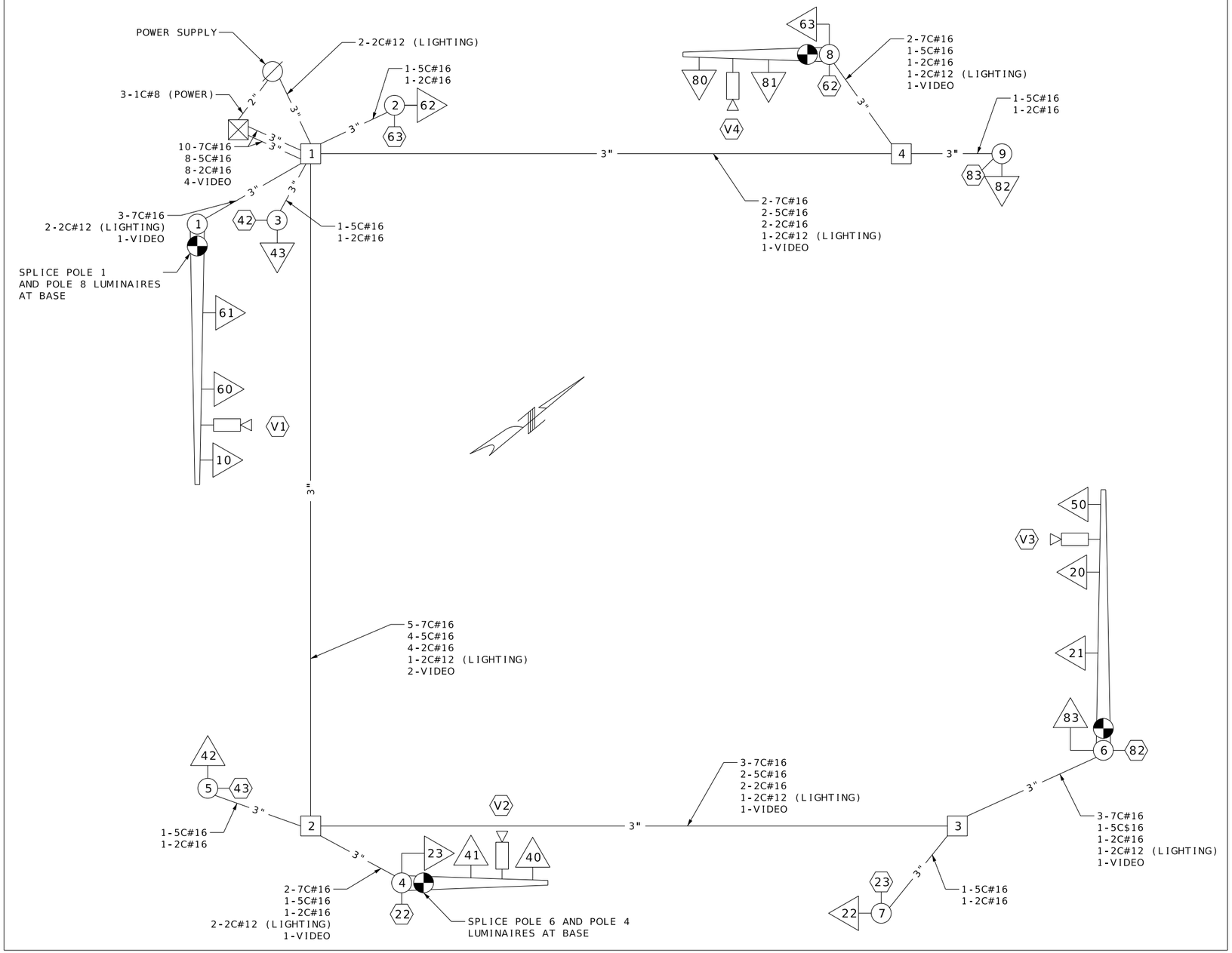
SIGNAL SHEETS
SHEET 5 OF 43

D-37C

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EFFECTIVE 12-01-17

WIRING DIAGRAM



LEGEND

3"	CONDUIT CONTAINING CABLE WITH SIZE
	CABLE
X-Xc	MULTI-CONDUCTOR CABLE #16 AWG (UNLESS OTHERWISE INDICATED)
X	PULL BOX WITH NUMBER
X	POST WITH NUMBER
X	POST WITH MAST ARM
X	POST WITH MAST ARM AND LUMINAIRE
X	DETECTOR WITH NUMBER
X	SIGNAL HEAD WITH NUMBER
	SIGNAL CONTROLLER
	COMBINATION PAD MOUNTED 120/240 VOLT POWER SUPPLY AND LIGHTING CONTROLLER WITH UPS
	VIDEO DETECTION CAMERA

ROUTE 231/TELEGRAPH ROAD
JEFFERSONIAN DRIVE/
JEFFERSON BARRACKS ROAD

INTERSECTION

SIGNAL SHEETS
SHEET 6 OF 43

D-37D

LAYOUT	NS	01/2025
DRAWN	SMC	01/2025
REVIEWED	DJK	01/2025

STATE OF MISSOURI
DENNIS J KOSCIELSKI
NUMBER PE-2005000712
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED
7/15/2025

ROUTE	STATE
231	MO
DISTRICT	SHEET NO.
SL	295

COUNTY
ST. LOUIS

JOB NO.
J6S3631

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION	DATE

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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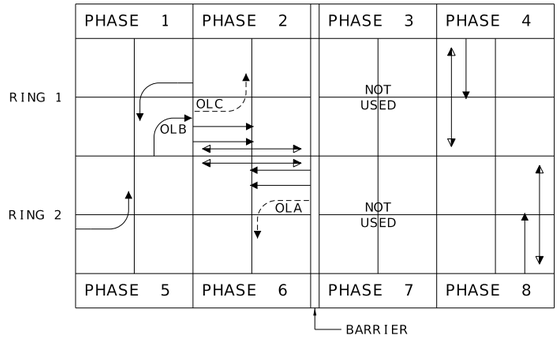
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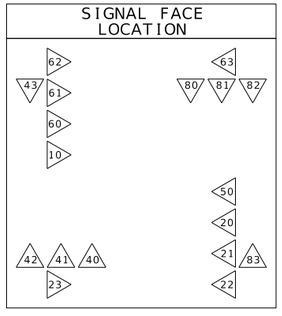
EFFECTIVE 12/01/2017

TRAFFIC PHASING AND COLOR SEQUENCE - ACTUATED CONTROLLERS

		PHASE 1	PHASE 2	PHASE 3	PHASE 4	PHASE 5	PHASE 6	PHASE 7	PHASE 8	PED Ø 2	PED Ø 4	PED Ø 6	PED Ø 8	OVERLAP A	OVERLAP B	OVERLAP C	OVERLAP	
FACE NUMBERS		10	20		40	50	60		80	62	42	22	82	10	81	50		FACE NUMBERS
			21		41		61		81	63	43	23	83					
SIGNAL INDICATIONS	R		R		R		R		R	DW	DW	DW	DW	RL		RL		R
	Y		Y		Y		Y		Y	FDW	FDW	FDW	FDW	YL	YRt	YL		Y
	FYA													FYL		FYL		FYA
	G	L	G		G	L	G		G	W	W	W	W		Rt			G
DETECTOR ASSIGNMENTS		10	20 21		40	50	60 61		80									DETECTOR ASSIGNMENTS
DETECTOR ASSIGNMENTS (PEDS. ONLY)										62 63	42 43	22 23	82 83					
OVERLAP PARENT PHASES														6	1	2		



RING STRUCTURE



IF CALLED, ALL NON-CONFLICTING PHASES SHALL COMBINE AND TIME CONCURRENTLY. TIME TO BE DETERMINED BY THE ENGINEER AT SIGNAL TURN ON AND SET IN THE CONTROLLER BY THE CONTRACTOR.

LEGEND

- ACTUATED VEHICULAR MOVEMENT
- PARTIALLY RESTRICTED ACTUATED VEHICULAR MOVEMENT
- NON-ACTUATED VEHICULAR MOVEMENT
- PARTIALLY RESTRICTED NON-ACTUATED VEHICULAR MOVEMENT
- ACTUATED PEDESTRIAN MOVEMENT
- NON-ACTUATED PEDESTRIAN MOVEMENT
- VEHICLE STOPPED

FDW — FLASHING DON'T WALK
W — WALK
DW — DON'T WALK
R/W — RIGHT OF WAY INTERVAL
YRt — YELLOW RIGHT ARROW
RT. — GREEN RIGHT ARROW
LY -YL — YELLOW LEFT ARROW
L — GREEN LEFT ARROW
S — GREEN STRAIGHT AHEAD ARROW
G — CIRCULAR GREEN
Y — CIRCULAR YELLOW
R — CIRCULAR RED
RL — RED LEFT ARROW
Ø — TRAFFIC PHASE
AO — ALL OTHERS
FR — FLASHING RED
FY — FLASHING CIRCULAR YELLOW
FYL — FLASHING YELLOW LEFT ARROW

FLASHING OPERATION	
ALL	FR

CONTROLLER TYPE	NEMA 8∅

TRAFFIC SIGNAL CONTROL OPERATION

INTERSECTION OF ROUTE 231/TELEGRAPH RD

WITH JEFFERSONIAN DR/JEFFERSON BARRACKS RD

SIGNAL SHEETS
SHEET 7 OF 43

D-38A

LAYOUT	NS	01/2025
DRAWN	SMC	01/2025
REVIEWED	DJK	01/2025

STATE OF MISSOURI
DENNIS J KOSCIELSKI
NUMBER PE-2005000712
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED: 7/15/2025

ROUTE	STATE
231	MO
DISTRICT	SHEET NO.
SL	296

COUNTY: ST. LOUIS

JOB NO.: J6S3631

CONTRACT ID.:

PROJECT NO.:

BRIDGE NO.:

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

DESCRIPTION	DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

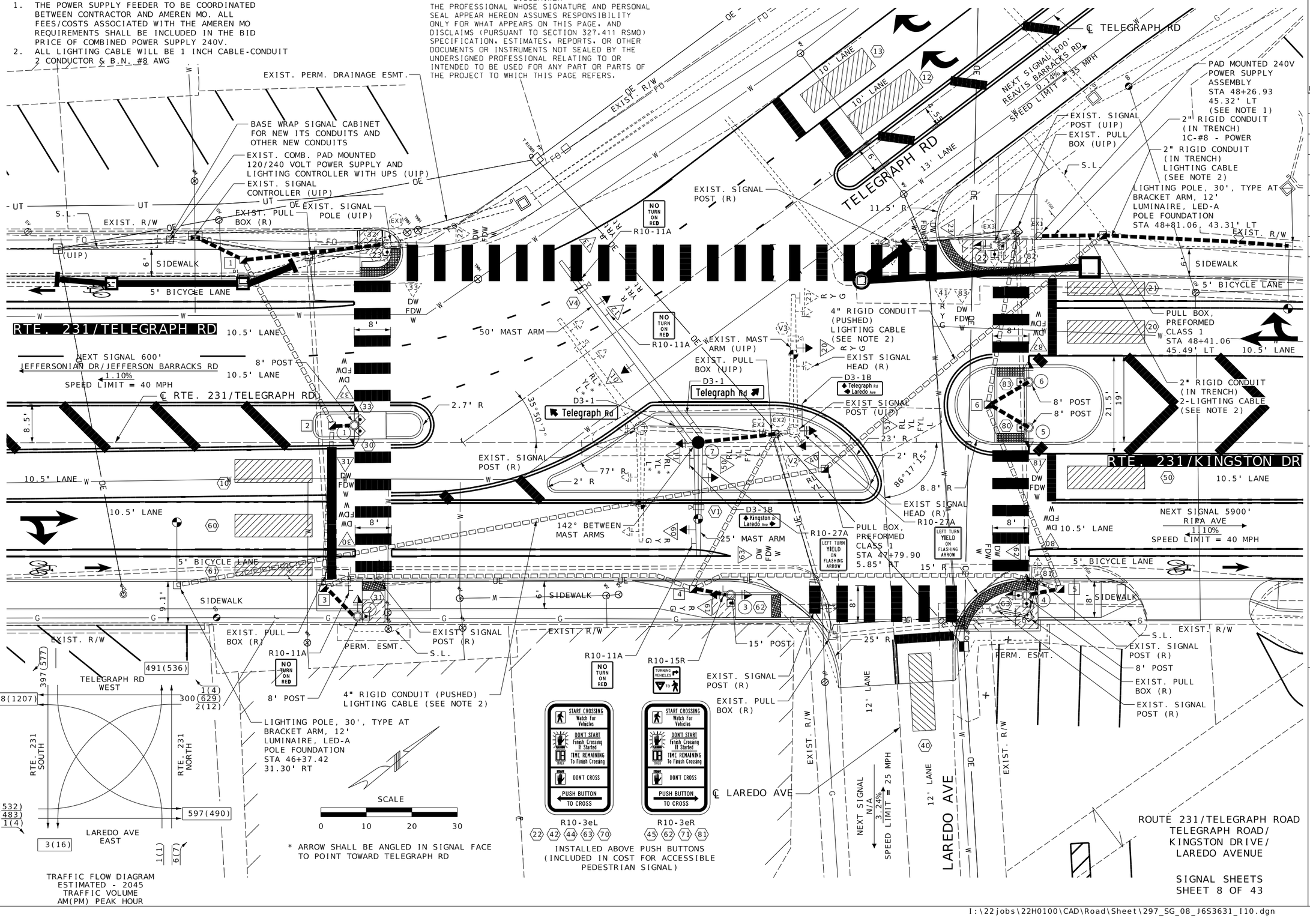
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NOTES:
1. THE POWER SUPPLY FEEDER TO BE COORDINATED BETWEEN CONTRACTOR AND AMEREN MO. ALL FEES/COSTS ASSOCIATED WITH THE AMEREN MO REQUIREMENTS SHALL BE INCLUDED IN THE BID PRICE OF COMBINED POWER SUPPLY 240V.
2. ALL LIGHTING CABLE WILL BE 1 INCH CABLE-CONDUIT 2 CONDUCTOR & B.N. #8 AWG

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LAYOUT	NS	01/2025
DRAWN	SMC	01/2025
REVIEWED	DJK	01/2025

STATE OF MISSOURI
DENNIS J KOSCIELSKI
NUMBER PE-2005000712
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED
7/15/2025

ROUTE	STATE
231	MO
DISTRICT	SHEET NO.
SL	297

COUNTY
ST. LOUIS

JOB NO.
J6S3631

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION	DATE

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MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL
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EFFECTIVE: 07/01/2018

| POST NUMBER | PULL BOX NUMBER | LOCATION APPROACH | LOCATION STATION | LOCATION OFFSET | BASE A 9 | BASE A 9.5 | BASE A 10 | BASE A 10.5 | BASE A 11 | BASE A 12 | BASE F 9 | BASE F 9.5 | BASE F 10 | BASE F 10.5 | BASE F 11 | BASE F 12 | BASE C CONCRETE** (CU. YDS.) | PULL BOX PREFORMED CLASS 1 | PULL BOX PREFORMED CLASS 2 | PULL BOX PREFORMED CLASS 3 | PULL BOX PREFORMED CLASS 5 | PULL BOX CONCRETE STANDARD | PULL BOX CONCRETE DOUBLE, TYPE A | PULL BOX CONCRETE DOUBLE, TYPE B | DRAIN TYPE* I | DRAIN TYPE* II A | DRAIN TYPE* II B | DRAIN TYPE* II C | TOP MOUNT POST 8 FT. | TOP MOUNT POST 15 FT. | TYPE C & CL ARM LENGTH A | TYPE C & CL ARM LENGTH A | TYPE C & CL ARM LENGTH A | TYPE C & CL ARM LENGTH A | TYPE C & CL SIGNAL SPACING B | TYPE C & CL SIGNAL SPACING C | TYPE C & CL SIGNAL SPACING D | TYPE C & CL SIGNAL SPACING D' | TYPE C & CL SIGN SPACING B | TYPE C & CL SIGN SPACING C | TYPE C & CL SIGN SPACING D | TYPE C & CL SIGN SPACING D' | TYPE B & BL ARM LENGTH E | TYPE B & BL ARM LENGTH K | TYPE B & BL ARM LENGTH E | TYPE B & BL ARM LENGTH K | TYPE B & BL ARM LENGTH E | TYPE B & BL LEFT ARM E SIGNAL SPACING F | TYPE B & BL LEFT ARM E SIGNAL SPACING G | TYPE B & BL LEFT ARM E SIGNAL SPACING H | TYPE B & BL LEFT ARM E SIGNAL SPACING H' | TYPE B & BL LEFT ARM E SIGN SPACING F | TYPE B & BL LEFT ARM E SIGN SPACING G | TYPE B & BL LEFT ARM E SIGN SPACING H | TYPE B & BL LEFT ARM E SIGN SPACING H' | TYPE B & BL RIGHT ARM K SIGNAL SPACING L | TYPE B & BL RIGHT ARM K SIGNAL SPACING M | TYPE B & BL RIGHT ARM K SIGNAL SPACING N | TYPE B & BL RIGHT ARM K SIGNAL SPACING N' | TYPE B & BL RIGHT ARM K SIGN SPACING L | TYPE B & BL RIGHT ARM K SIGN SPACING M | TYPE B & BL RIGHT ARM K SIGN SPACING N | TYPE B & BL RIGHT ARM K SIGN SPACING N' | INCLUDED ANGLE | LUMINAIRE BRACKET ARM* 4 FT. | LUMINAIRE BRACKET ARM* 6 FT. | LUMINAIRE BRACKET ARM* 8 FT. | LUMINAIRE BRACKET ARM* 10 FT. | LUMINAIRE BRACKET ARM* 12 FT. | LUMINAIRE BRACKET ARM* 15 FT. |
|---|---|---

EFFECTIVE: 10-01-2015

NOTES:

1. INCLUDED IN COST OF P.S.
2. INCLUDED IN COST OF SL DETECTION SYSTEM.
3. ALL LENGTHS ARE IN FEET UNLESS OTHERWISE INDICATED.

CONDUIT (WITH #14 TRACER WIRE)

FROM	TO	CENTER TO CENTER DISTANCE	LOOP DET.	TRENCH				PUSHED			MEDIAN			ON STRUCTURE			REMARKS
			1"	2"	3"	4"		2"	3"	4"	2"	3"	4"	2"	3"		
∅	1	27			30												
☒	1	12			30												
1	EX1	32			30												
1	2	42							80								
2	1	5			6												
2	3	36								34							
3	L1	32		33													
3	2	8			9												
3	4	83								81							
4	3	9			10												
4	EX2	39							37								
EX2	7	17							20								
4	5	82							80								
5	4	8			9												
5	6	44							42								
6	5	11							12								
6	6	11							12								
6	EX1	39							37								

EFFECTIVE 04-01-2018

POWER SUPPLY

LOCATION			POWER SUPPLY ASSEMBLY		CIRCUIT BREAKER TRIP RATING*				LIGHTING CONTROL * (ON POWER SUPPLY)		SERVICE POLE	
					CONTROLLER		POWER SUPPLY DISCONNECT					
APPROACH	STATION	OFFSET	DRAWING 902.15	SPECIAL DRAWING (4)	AUXILIARY BREAKER	CONT & SIGNAL LAMPS	MAIN BREAKER		120 VOLT CONTROL CABINET	MAIN BREAKER	CONTRACT FURNISH	UTILITY COMPANY
							SIGNALS	LIGHTING				
			Type		15 Amps	Amps	Amps	Amps		Amps	Cl. Ft.	
			Type		15 Amps	Amps	Amps	Amps		Amps	Cl. Ft.	

CONTROLLER ASSEMBLY AND AUXILIARY EQUIPMENT

LOCATION			SYSTEM MASTER (CLOSED LOOP)		ACTUATED		ON-OFF* SWITCH TYPE		COORDINATION INTERFACE *					TIME * CLOCK	NEMA CABINET TYPE *			170 CABINET TYPE *		170 SOFTWARE *	
									12C/7C HARDWIRE (1)		TIME BASE	CLOSED LOOP		FIBER							
APPROACH	STATION	OFFSET	NEMA	170	NEMA	170	I	II	MASTER	LOCAL		NEMA	170			E	EV	DOUBLE	332	336S	BITRAN	WAPITI

NEMA DETECTOR ASSIGNMENT

CARD POSITION

		1	2	3	4	5	6	7	8
CHANNEL	1			SL DETECTION (3)					
	2								

TOTAL NUMBER OF DETECTOR CARDS(2-CHANNEL) = (2)

DETECTOR SCHEDULE

DETECTOR NUMBER	APPROACH	TYPE				
		PUSH BUTTON	INDUCTION LOOP (2)			SL DETECTION (3)
			STANDARD	DELAY/ EXTEND *	CALL UNIT *	
22	SB MO 231	1				
83	WB LAREDO	1				
81	WB LAREDO	1				
80	EB LAREDO	1				
62	NB MO 231	1				
63	SB MO 231	1				
30	EB TELEGRAPH	1				
31	WB TELEGRAPH	1				
33	WB TELEGRAPH	1				
10	NB MO 231					V1
60	NB MO 231					V1
61	NB MO 231					V1
40	WB LAREDO					V2
20	SB MO 231					V3
21	SB MO 231					V3
50	SB MO 231					V3
12	EB TELEGRAPH					V4
13	EB TELEGRAPH					V4
TOTAL		9				

* ITEMS FOR WHICH SEPARATE PAYMENT WILL NOT BE MADE.

*** USE D3-1 FOR ONE LINE. USE D3-1B FOR TWO LINE.

(1) MoDOT "D" PLUG SHALL BE WIRED INTO ALL NEMA CONTROLLERS WITH 7C HARDWIRE INTERCONNECT.

(2) PAYMENT IS MADE FOR THE NUMBER OF 2-CHANNEL DETECTOR CARDS AS SHOWN BELOW THE ASSIGNMENT CHART.

(3) SEE SL DETECTION SYSTEM JSP FOR ADDITIONAL DETAILS. SIGNAL DETECTION SHALL BE PAID AS 1 PER INTERSECTION. THE CONTRACTOR SHALL PROVIDE AND INSTALL A VEHICLE DETECTION SYSTEM FULLY COVERING DETECTION ZONES AS SHOWN ON THE PLANS. THE METHOD CHOSEN SHALL COMPLY WITH MODOT'S STANDARDS AND SPECIFICATIONS. ALL EQUIPMENT USED IN THE SYSTEM SHALL BE IN ACCORDANCE WITH MODOT'S APPROVED PRODUCT LIST AND RECEIVE ST. LOUIS DISTRICT APPROVAL PRIOR TO INSTALLATION. THIS WILL BE A COMPLETE UNIT WITH ALL COSTS INCLUDED.

(4) POWER SUPPLY SHALL BE PAD MOUNTED 120V/240V SIGNAL POWER SUPPLY & LIGHTING CONTROLLER WITH UNINTERRUPTIBLE POWER SUPPLY. SEE DETAILS.

SIGNAL SIGNS

QUANTITY	MUTCD SIGN NUMBER	SIZE	AREA	SIGN TOTAL AREA ITEM NO. 90208.33	SIGNAL SIGN MOUNTING HARDWARE ITEM NO. 90208.34
		INCHES	SQ.FT.	SQ.FT.	EA.
	R10-10L	24 X 30	5.0		
	R10-10R	24 X 30	5.0		
	R3-5L	30 X 36	7.5		
	R3-5R	30 X 36	7.5		
	R3-5A	30 X 36	7.5		
	R3-6L	30 X 36	7.5		
	R3-6R	30 X 36	7.5		
	R3-2	24 X 24	4.0		
	R3-1	24 X 24	4.0		
	R3-3	24 X 24	4.0		
2	D3-1 ***	96 X 18	12.0	24.0	2
1	D3-1B ***	54 X 18	6.8	6.8	1
1	D3-1B ***	60 X 18	7.5	7.5	1
	R10-3E	9 X 15	0.9		
5	R10-11A	24 X 30	5.0	25.0	5
	R10-13	36 X 24	6.0		
2	R10-27A	30 X 36	7.5	15.0	2
2	R10-5	30 X 36	7.5	15.0	2
1	R10-15R	30 X 3	6.3	6.3	1
			SUBTOTAL	99.5	14
			TOTAL	100	14

SL DETECTION (3)
TOTAL = 1 EACH

COMBINATION PAD MOUNTED 120V/240V POWER SUPPLY AND LIGHTING CONTROLLER WITH UPS
TOTAL = UIP

NEMA LOAD SWITCH ASSIGNMENTS (16 - POSITION)

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
PHASE 1	PHASE 2		PHASE 4	PHASE 5	PHASE 6				OLB	OLC			PH3 PED		PH8 PED

LAYOUT	NS	01/2025
DRAWN	SMC	01/2025
REVIEWED	DJK	01/2025

ROUTE 231/TELEGRAPH ROAD
TELEGRAPH ROAD/KINGSTON DRIVE/LAREDO AVENUE

INTERSECTION

TRAFFIC SHEETS
SHEET 11 OF 43

D-37C

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STATE OF MISSOURI
DENNIS J KOSCIELSKI
NUMBER PE-2005000712
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED
7/15/2025

ROUTE	STATE
231	MO
DISTRICT	SHEET NO.
SL	300

COUNTY
ST. LOUIS

JOB NO.
J6S3631

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION	DATE

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

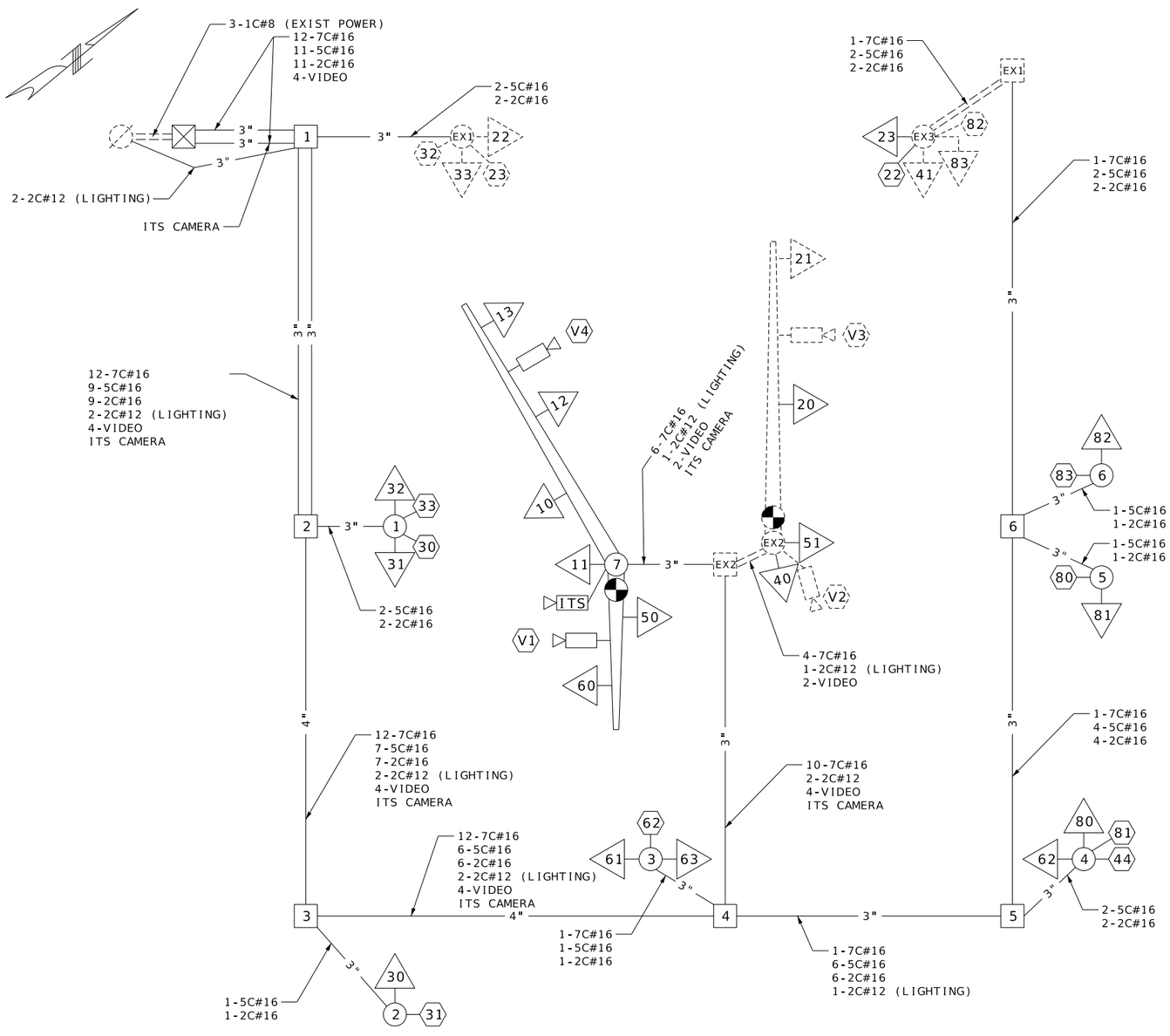
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EFFECTIVE 12-01-17

WIRING DIAGRAM



LEGEND

3"	CONDUIT CONTAINING CABLE WITH SIZE
	CABLE
	EXISTING CONDUIT
X-Xc	MULTI-CONDUCTOR CABLE #16 AWG (UNLESS OTHERWISE INDICATED)
X	PULL BOX WITH NUMBER
X	EXISTING PULL BOX WITH NUMBER
X	POST WITH NUMBER
X	POST WITH MAST ARM
X	EXISTING POST WITH MAST ARM
X	POST WITH MAST ARM AND LUMINAIRE
X	DETECTOR WITH NUMBER
X	EXISTING DETECTOR WITH NUMBER
X	SIGNAL HEAD WITH NUMBER
X	EXISTING SIGNAL HEAD WITH NUMBER
	SIGNAL CONTROLLER
	COMBINATION PAD MOUNTED 120/240 VOLT POWER SUPPLY AND LIGHTING CONTROLLER WITH UPS
	EXISTING POWER SUPPLY
ITS	VIDEO DETECTION CAMERA
ITS	ITS CAMERA (SEE ITS SHEETS)
	EXISTING VIDEO DETECTION CAMERA

ROUTE 231/TELEGRAPH ROAD
TELEGRAPH ROAD/KINGSTON
ROAD/LAREDO AVENUE

INTERSECTION

SIGNAL SHEETS
SHEET 12 OF 43

D-37D

LAYOUT	NS	01/2025
DRAWN	SMC	01/2025
REVIEWED	DJK	01/2025

STATE OF MISSOURI
DENNIS J KOSCIELSKI
NUMBER PE-2005000712
PROFESSIONAL ENGINEER

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DATE PREPARED
7/15/2025

ROUTE	STATE
231	MO
DISTRICT	SHEET NO.
SL	301

COUNTY
ST. LOUIS

JOB NO.
J6S3631

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION	DATE

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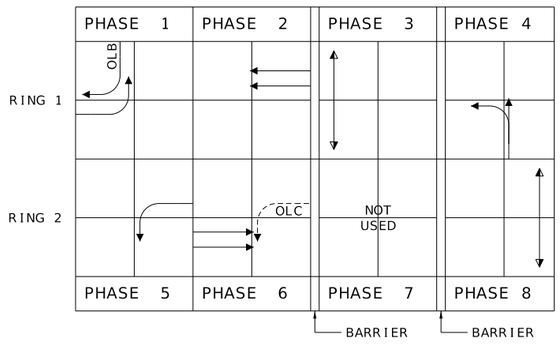
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EFFECTIVE 12/01/2017

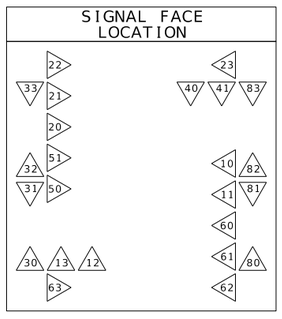
TRAFFIC PHASING AND COLOR SEQUENCE - ACTUATED CONTROLLERS

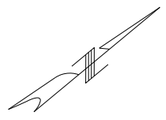


		PHASE 1	PHASE 2	PHASE 3	PHASE 4	PHASE 5	PHASE 6	PHASE 7	PHASE 8	PED Ø	PED Ø 3	PED Ø	PED Ø 8	OVERLAP	OVERLAP B	OVERLAP C	OVERLAP	
FACE NUMBERS		10 11	20 21		40 41	50 51	60 61				30 32 31 33		80 82 81 83		12 13	50 51		FACE NUMBERS
SIGNAL INDICATIONS	R	RL	R		RL R		R				DW DW		DW DW		RRt	RL		R
	Y	YL	Y		YL Y		Y				FDW FDW		FDW FDW		YRt	YL		Y
	FYA															FYL		FYA
	G	L	G		L G	L	G				W W		W W		Rt			G
DETECTOR ASSIGNMENTS		10 20 21			40 40	50	60 61											DETECTOR ASSIGNMENTS
DETECTOR ASSIGNMENTS (PEDS. ONLY)											30 32 31 33		80 82 81 83					
OVERLAP PARENT PHASES															1	6		



RING STRUCTURE





IF CALLED, ALL NON-CONFLICTING PHASES SHALL COMBINE AND TIME CONCURRENTLY. TIME TO BE DETERMINED BY THE ENGINEER AT SIGNAL TURN ON AND SET IN THE CONTROLLER BY THE CONTRACTOR.

LEGEND

- ACTUATED VEHICULAR MOVEMENT
- PARTIALLY RESTRICTED ACTUATED VEHICULAR MOVEMENT
- NON-ACTUATED VEHICULAR MOVEMENT
- PARTIALLY RESTRICTED NON-ACTUATED VEHICULAR MOVEMENT
- ACTUATED PEDESTRIAN MOVEMENT
- NON-ACTUATED PEDESTRIAN MOVEMENT
- VEHICLE STOPPED
- FDW — FLASHING DON'T WALK
- W — WALK
- DW — DON'T WALK
- R/W — RIGHT OF WAY INTERVAL
- YRt — YELLOW RIGHT ARROW
- RT. — GREEN RIGHT ARROW
- LY -YL — YELLOW LEFT ARROW
- L — GREEN LEFT ARROW
- S — GREEN STRAIGHT AHEAD ARROW
- G — CIRCULAR GREEN
- Y — CIRCULAR YELLOW
- R — CIRCULAR RED
- RL — RED LEFT ARROW
- Ø — TRAFFIC PHASE
- AO — ALL OTHERS
- FR — FLASHING RED
- FY — FLASHING CIRCULAR YELLOW
- FYL — FLASHING YELLOW LEFT ARROW

FLASHING OPERATION	
ALL	FR
CONTROLLER TYPE	NEMA 8○ (UIP)

TRAFFIC SIGNAL CONTROL OPERATION

INTERSECTION OF ROUTE 231/TELEGRAPH RD

WITH TELEGRAPH RD/KINGSTON DR/LAREDO AVE

SIGNAL SHEETS
SHEET 13 OF 43

D-38A

LAYOUT	NS	01/2025
DRAWN	SMC	01/2025
REVIEWED	DJK	01/2025

STATE OF MISSOURI
DENNIS J KOSCIELSKI
NUMBER PE-2005000712
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED
7/15/2025

ROUTE	STATE
231	MO
DISTRICT	SHEET NO.
SL	302

COUNTY
ST. LOUIS

JOB NO.
J6S3631

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

DESCRIPTION	DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

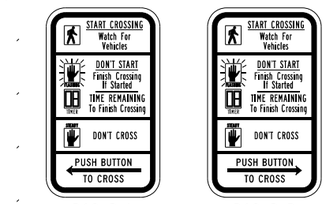
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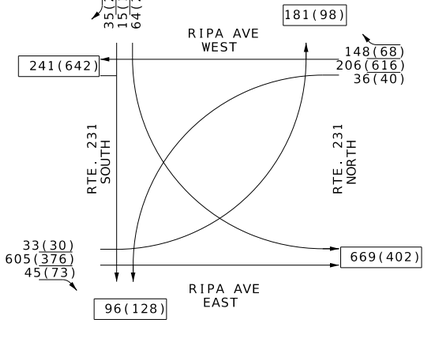
R10-3eL
22 23 32 33 64

R10-3eR
34 63

INSTALLED ABOVE PUSH BUTTONS
(INCLUDED IN COST FOR ACCESSIBLE PEDESTRIAN SIGNAL)

SCALE
0 10 20 30

℄ RIPA AVE
RIPA AVE
NEXT SIGNAL 2450'
TELEGRAPH RD
1.44%
SPEED LIMIT = 30 MPH
12.5' LANE
11.5' LANE
EXIST. R/W
0.5' OFFSET FROM ℄
S.L.
8' POST
20' R
EXIST. PULL BOX (UIP)
TENTATIVE R/W
EXIST. SIGNAL POST (R)
EXIST. SIGNAL POST (UIP)
T.C.E.
10' R
13.5' R
D3-1 (UIP)
Ripa Ave
EXIST. MAST ARM (UIP)
R10-27A (UIP)
LEFT TURN YIELD ON FLASHING ARROW
℄ RTE. 231 / S BROADWAY ST
S Broadway
25' MAST ARM
89°3'45"
NEXT SIGNAL 5900'
TELEGRAPH RD/KINGSTON DR
1.65%
SPEED LIMIT = 30 MPH
10.5' LANE
RTE. 231/S BROADWAY ST
NEXT SIGNAL 3500'
HOFFMEISTER AVE
0.20%
SPEED LIMIT = 30 MPH
EXIST. COMB. PAD MOUNTED 120/240 VOLT POWER SUPPLY AND LIGHTING CONTROLLER WITH UPS (UIP)
BASE WRAP SIGNAL CABINET FOR NEW ITS CONDUITS AND OTHER NEW CONDUITS
EXIST. SIGNAL CONTROLLER (UIP)
EXIST. SIGNAL POST (UIP)
R37-R (UIP)
RIGHT LANE MUST TURN RIGHT
NEXT SIGNAL N/A
1.19%
SPEED LIMIT = 30 MPH
23' LANE
NO EXIST. R/W



TRAFFIC FLOW DIAGRAM
ESTIMATED - 2045
TRAFFIC VOLUME
AM(PM) PEAK HOUR

LAYOUT	NS	01/2025
DRAWN	SMC	01/2025
REVIEWED	DJK	01/2025

ROUTE 231/S BROADWAY STREET
RIPA AVE

SIGNAL SHEETS
SHEET 14 OF 43

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STATE OF MISSOURI
DENNIS J KOSCIELSKI
NUMBER PE-2005000712
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED
7/15/2025

ROUTE	STATE
231	MO
DISTRICT	SHEET NO.
SL	303

COUNTY
ST. LOUIS

JOB NO.
J6S3631

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DATE	DESCRIPTION

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

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600 Washington Ave., Suite 950
St. Louis, Missouri 63101
Professional Engineer 001632
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314.770.0467

EFFECTIVE: 07/01/2018

| POST NUMBER | PULL BOX NUMBER | LOCATION APPROACH | LOCATION STATION | LOCATION OFFSET | BASE A 9 | BASE A 9.5 | BASE A 10 | BASE A 10.5 | BASE A 11 | BASE A 12 | BASE F 9 | BASE F 9.5 | BASE F 10 | BASE F 10.5 | BASE F 11 | BASE F 12 | BASE C CONCRETE** (CU. YDS.) | PULL BOX PREFORMED CLASS 1 | PULL BOX PREFORMED CLASS 2 | PULL BOX PREFORMED CLASS 3 | PULL BOX PREFORMED CLASS 5 | PULL BOX CONCRETE STANDARD | PULL BOX CONCRETE DOUBLE, TYPE A | PULL BOX CONCRETE DOUBLE, TYPE B | DRAIN TYPE* I | DRAIN TYPE* II A | DRAIN TYPE* II B | DRAIN TYPE* II C | TOP MOUNT POST 8 FT. | TOP MOUNT POST 15 FT. | TYPE C & CL ARM LENGTH A | TYPE C & CL ARM LENGTH A | TYPE C & CL ARM LENGTH A | TYPE C & CL ARM LENGTH A | TYPE C & CL SIGNAL SPACING B | TYPE C & CL SIGNAL SPACING C | TYPE C & CL SIGNAL SPACING D | TYPE C & CL SIGNAL SPACING D' | TYPE C & CL SIGN SPACING B | TYPE C & CL SIGN SPACING C | TYPE C & CL SIGN SPACING D | TYPE C & CL SIGN SPACING D' | TYPE B & BL ARM LENGTH E | TYPE B & BL ARM LENGTH K | TYPE B & BL ARM LENGTH E | TYPE B & BL ARM LENGTH K | TYPE B & BL ARM LENGTH E | TYPE B & BL LEFT ARM E SIGNAL SPACING F | TYPE B & BL LEFT ARM E SIGNAL SPACING G | TYPE B & BL LEFT ARM E SIGNAL SPACING H | TYPE B & BL LEFT ARM E SIGNAL SPACING H' | TYPE B & BL LEFT ARM E SIGN SPACING F | TYPE B & BL LEFT ARM E SIGN SPACING G | TYPE B & BL LEFT ARM E SIGN SPACING H | TYPE B & BL LEFT ARM E SIGN SPACING H' | TYPE B & BL RIGHT ARM K SIGNAL SPACING L | TYPE B & BL RIGHT ARM K SIGNAL SPACING M | TYPE B & BL RIGHT ARM K SIGNAL SPACING N | TYPE B & BL RIGHT ARM K SIGNAL SPACING N' | TYPE B & BL RIGHT ARM K SIGN SPACING L | TYPE B & BL RIGHT ARM K SIGN SPACING M | TYPE B & BL RIGHT ARM K SIGN SPACING N | TYPE B & BL RIGHT ARM K SIGN SPACING N' | TYPE B & BL INCLUDED ANGLE | LUMINAIRE BRACKET ARM* 4 FT. | LUMINAIRE BRACKET ARM* 6 FT. | LUMINAIRE BRACKET ARM* 8 FT. | LUMINAIRE BRACKET ARM* 10 FT. | LUMINAIRE BRACKET ARM* 12 FT. | LUMINAIRE BRACKET ARM* 15 FT. |
|---|---|---

NOTES:

1. INCLUDED IN COST OF P.S.
2. INCLUDED IN COST OF SL DETECTION SYSTEM.
3. ALL LENGTHS ARE IN FEET UNLESS OTHERWISE INDICATED.

EFFECTIVE: 10-01-2015

CONDUIT (WITH #14 TRACER WIRE)

FROM	TO	CENTER TO CENTER DISTANCE	LOOP DET.	TRENCH				PUSHED			MEDIAN			ON STRUCTURE			REMARKS
			1"	2"	3"	4"		2"	3"	4"	2"	3"	4"	2"	3"		
☒	EX1	5															
EX1	EX1	11															
EX1	1	64							62								
EX1	1	31			32												
1	2	4			5												
1	3	4			5												
1	4	26			27												
EX1	EX2	61															
EX2	7	11			12												
EX2	8	8			9												
EX2	EX3	52															
EX3	EX2	5															
EX3	5	28			29												
EX3	6	15			16												
∅	EX1	13															
SUBTOTALS					135				62								
TOTALS					135				62								

CABLE

FROM	TO	CENTER TO CENTER DISTANCE	POWER		CONTROL				CLOSED LOOP INTERCONNECT	LUMINAIRE		DETECTOR			FIBER		REMARKS
					2c #16	5c #16	7c #16	3c #16	3 PAIR #16	CONTROL 2c #12	POLE & BRACKET 1c #10	1c #14 IN DUCT	2c #14 LEAD-IN CABLE	SL CABLE	SINGLE-MODE	MULTI-MODE	
☒	43	36				60											
☒	44	36			59												
☒	30	73					137										
☒	V2	73												(134)			SEE NOTE 2.
☒	37	73					106										
☒	44	73				103											
☒	43	73			102												
☒	42	95				125											
☒	41	95			124												
☒	46	74				104											
☒	47	74			103												
☒	46	77				107											
☒	45	77			106												
☒	41	146				182											
☒	42	146			181												
☒	45	133				169											
☒	46	133			168												
∅	1	81								101							
1	◓	0									40						LUMINAIRE
SUBTOTALS					843	850	243			101	40			(134)			
TOTALS					890	900	260			110	50			(150)			INCLUDES 5% FOR SNAKING

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

STATE OF MISSOURI · DENNIS J KOSCIELSKI · NUMBER PE-2005000712 · PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED 7/15/2025

ROUTE	STATE
231	MO
DISTRICT	SHEET NO.
SL	305

COUNTY: ST. LOUIS

JOB NO.: J6S3631

CONTRACT ID.:

PROJECT NO.:

BRIDGE NO.:

DESCRIPTION	DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

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LAYOUT	NS	01/2025
DRAWN	SMC	01/2025
REVIEWED	DJK	01/2025

TRAFFIC SHEETS
SHEET 16 OF 43

INTERSECTION: RTE 231/S BROADWAY STREET
RIPA AVE

D-37B

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EFFECTIVE 04-01-2018

POWER SUPPLY

LOCATION			POWER SUPPLY ASSEMBLY		CIRCUIT BREAKER TRIP RATING*				LIGHTING CONTROL * (ON POWER SUPPLY)		SERVICE POLE	
					CONTROLLER		POWER SUPPLY DISCONNECT					
APPROACH	STATION	OFFSET	DRAWING 902.15	SPECIAL DRAWING (4)	AUXILIARY BREAKER	CONT & SIGNAL LAMPS	MAIN BREAKER		120 VOLT CONTROL CABINET	MAIN BREAKER	CONTRACT FURNISH	UTILITY COMPANY
							SIGNALS	LIGHTING				
			Type		15 Amps	Amps	Amps	Amps		Amps	Cl. Ft.	
			Type		15 Amps	Amps	Amps	Amps		Amps	Cl. Ft.	

CONTROLLER ASSEMBLY AND AUXILIARY EQUIPMENT

LOCATION			SYSTEM MASTER (CLOSED LOOP)		ACTUATED		ON-OFF* SWITCH TYPE		COORDINATION INTERFACE *					TIME * CLOCK	NEMA CABINET TYPE *			170 CABINET TYPE *		170 SOFTWARE *	
									12C/7C HARDWIRE (1)		TIME BASE	CLOSED LOOP		FIBER							
APPROACH	STATION	OFFSET	NEMA	170	NEMA	170	I	II	MASTER	LOCAL		NEMA	170			E	EV	DOUBLE	332	336S	BITRAN	WAPITI

NEMA DETECTOR ASSIGNMENT

CARD POSITION

		1	2	3	4	5	6	7	8
CHANNEL	1			SL DETECTION (3)					
	2								

TOTAL NUMBER OF DETECTOR CARDS(2-CHANNEL) = (2)

DETECTOR SCHEDULE

DETECTOR NUMBER	APPROACH	TYPE				
		PUSH BUTTON	INDUCTION LOOP (2)			SL DETECTION (3)
			STANDARD	DELAY/ EXTEND *	CALL UNIT *	
45	SB MO 231	1				
46	NB MO 231	1				
42	EB RIPA	1				
41	WB RIPA	1				
48	EB RIPA	1				
43	NB MO 231	1				
44	SB MO 231	1				
10	NB MO 231					V1
60	NB MO 231					V1
30	EB RIPA					V2
50	SB MO 231					V3
20	SB MO 231					V3
TOTAL		7				

* ITEMS FOR WHICH SEPARATE PAYMENT WILL NOT BE MADE.

*** USE D3-1 FOR ONE LINE. USE D3-1B FOR TWO LINE.

(1) MoDOT "D" PLUG SHALL BE WIRED INTO ALL NEMA CONTROLLERS WITH 7C HARDWIRE INTERCONNECT.

(2) PAYMENT IS MADE FOR THE NUMBER OF 2-CHANNEL DETECTOR CARDS AS SHOWN BELOW THE ASSIGNMENT CHART.

(3) SEE SL DETECTION SYSTEM JSP FOR ADDITIONAL DETAILS. SIGNAL DETECTION SHALL BE PAID AS 1 PER INTERSECTION. THE CONTRACTOR SHALL PROVIDE AND INSTALL A VEHICLE DETECTION SYSTEM FULLY COVERING DETECTION ZONES AS SHOWN ON THE PLANS. THE METHOD CHOSEN SHALL COMPLY WITH MODOT'S STANDARDS AND SPECIFICATIONS. ALL EQUIPMENT USED IN THE SYSTEM SHALL BE IN ACCORDANCE WITH MODOT'S APPROVED PRODUCT LIST AND RECEIVE ST. LOUIS DISTRICT APPROVAL PRIOR TO INSTALLATION. THIS WILL BE A COMPLETE UNIT WITH ALL COSTS INCLUDED.

(4) POWER SUPPLY SHALL BE PAD MOUNTED 120V/240V SIGNAL POWER SUPPLY & LIGHTING CONTROLLER WITH UNINTERRUPTIBLE POWER SUPPLY. SEE DETAILS.

SIGNAL SIGNS

QUANTITY	MUTCD SIGN NUMBER	SIZE	AREA	SIGN TOTAL AREA ITEM NO. 90208.33	SIGNAL SIGN MOUNTING HARDWARE ITEM NO. 90208.34
		INCHES	SQ.FT.	SQ.FT.	EA.
	R10-10L	24 X 30	5.0		
	R10-10R	24 X 30	5.0		
	R3-5L	30 X 36	7.5		
	R3-5R	30 X 36	7.5		
	R3-5A	30 X 36	7.5		
	R3-6L	30 X 36	7.5		
	R3-6R	30 X 36	7.5		
	R3-2	24 X 24	4.0		
	R3-1	24 X 24	4.0		
	R3-3	24 X 24	4.0		
1	D3-1 ***	78 X 18	9.8	9.8	1
	D3-1B ***	VAR. X 18	VAR.		
	R10-3E	9 X 15	0.9		
	R10-11A	24 X 30	5.0		
	R10-13	36 X 24	6.0		
	R10-27A	30 X 36	7.5		
			SUBTOTAL	9.8	1
			TOTAL	10	1

SL DETECTION (SEE NOTE 3)
TOTAL = 1 EACH

COMBINATION PAD MOUNTED 120V/240V POWER SUPPLY AND LIGHTING CONTROLLER WITH UPS
TOTAL = UIP

NEMA LOAD SWITCH ASSIGNMENTS (16 - POSITION)

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
PHASE 1	PHASE 2	PHASE 3		PHASE 5	PHASE 6			OLA		OLC			PH4 PED		

LAYOUT	NS	01/2025
DRAWN	SMC	01/2025
REVIEWED	DJK	01/2025

STATE OF MISSOURI
DENNIS J KOSCIELSKI
NUMBER PE-2005000712
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED
7/15/2025

ROUTE	STATE
231	MO
DISTRICT	SHEET NO.
SL	306

COUNTY
ST. LOUIS

JOB NO.
J6S3631

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION	DATE

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MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL
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TRAFFIC SHEETS
SHEET 17 OF 43

ROUTE 231/S BROADWAY STREET
RIPA AVE

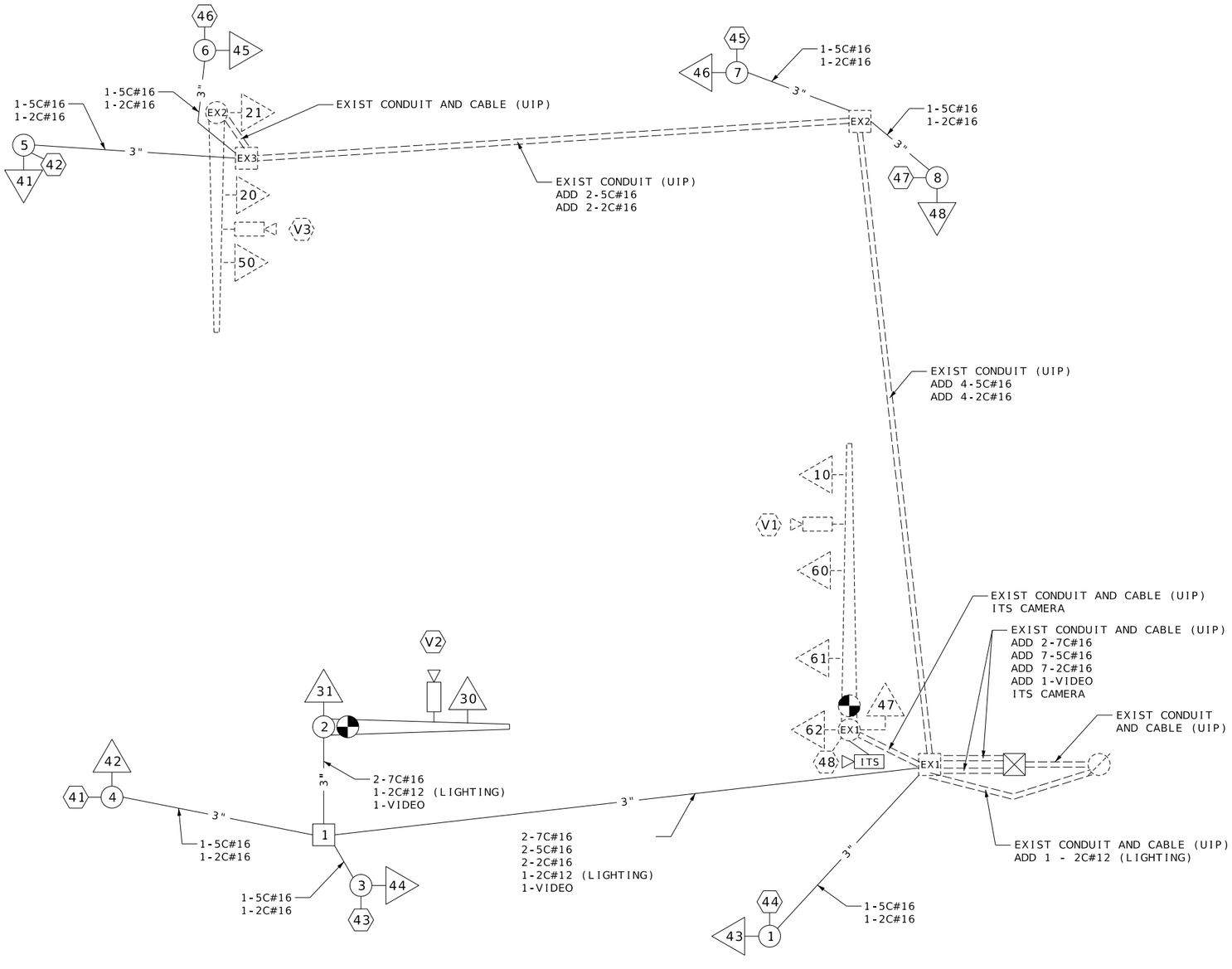
INTERSECTION

D-37C

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EFFECTIVE 12-01-17

WIRING DIAGRAM



LEGEND

3"	CONDUIT CONTAINING CABLE WITH SIZE
	CABLE
	EXISTING CONDUIT
X-Xc	MULTI-CONDUCTOR CABLE #16 AWG (UNLESS OTHERWISE INDICATED)
X	PULL BOX WITH NUMBER
X	EXISTING PULL BOX WITH NUMBER
X	POST WITH NUMBER
X	POST WITH MAST ARM
X	EXISTING POST WITH MAST ARM
X	POST WITH MAST ARM AND LUMINAIRE
X	DETECTOR WITH NUMBER
X	EXISTING DETECTOR WITH NUMBER
X	SIGNAL HEAD WITH NUMBER
X	EXISTING SIGNAL HEAD WITH NUMBER
	SIGNAL CONTROLLER
	COMBINATION PAD MOUNTED 120/240 VOLT POWER SUPPLY AND LIGHTING CONTROLLER WITH UPS
	EXISTING POWER SUPPLY
	VIDEO DETECTION CAMERA
ITS	ITS CAMERA (SEE ITS SHEETS)
	EXISTING VIDEO DETECTION CAMERA

ROUTE 231/S BROADWAY STREET
RIPA AVE

SIGNAL SHEETS
SHEET 18 OF 43

INTERSECTION

D-37D

LAYOUT	NS	01/2025
DRAWN	SMC	01/2025
REVIEWED	DJK	01/2025

STATE OF MISSOURI
DENNIS J KOSCIELSKI
NUMBER PE-2005000712
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED
7/15/2025

ROUTE	STATE
231	MO
DISTRICT	SHEET NO.
SL	307

COUNTY
ST. LOUIS

JOB NO.
J6S3631

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION	DATE

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MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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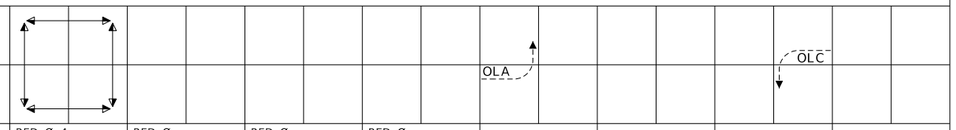
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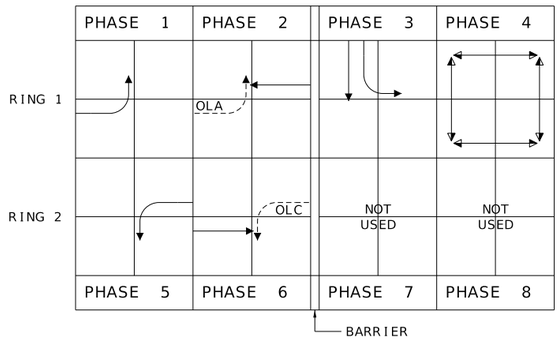
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EFFECTIVE 12/01/2017

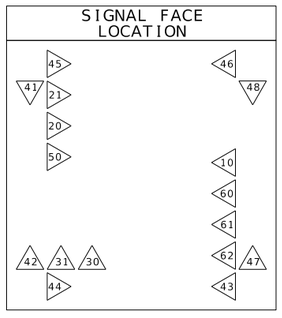
TRAFFIC PHASING AND COLOR SEQUENCE - ACTUATED CONTROLLERS



		PHASE 1	PHASE 2	PHASE 3	PHASE 4	PHASE 5	PHASE 6	PHASE 7	PHASE 8	PED Ø 4	PED Ø	PED Ø	PED Ø	OVERLAP A	OVERLAP	OVERLAP C	OVERLAP	
FACE NUMBERS		10	20	30		50	60 62			41 43 45 47				10		50		FACE NUMBERS
			21	31			61			42 44 46 48								
SIGNAL INDICATIONS	R		R	R			R R			DW DW DW DW				RL		RL		R
	Y		Y	Y			Y Y			FDW FDW FDW FDW				YL		YL		Y
	FYA													FYL		FYL		FYA
	G	L	G	G		L	G G			W W W W								G
DETECTOR ASSIGNMENTS		10	20	30		50	60											DETECTOR ASSIGNMENTS
DETECTOR ASSIGNMENTS (PEDS. ONLY)										41 43 45 47 42 44 46 48								
OVERLAP PARENT PHASES														2		6		



RING STRUCTURE



IF CALLED, ALL NON-CONFLICTING PHASES SHALL COMBINE AND TIME CONCURRENTLY. TIME TO BE DETERMINED BY THE ENGINEER AT SIGNAL TURN ON AND SET IN THE CONTROLLER BY THE CONTRACTOR.

LEGEND

- ACTUATED VEHICULAR MOVEMENT
- PARTIALLY RESTRICTED ACTUATED VEHICULAR MOVEMENT
- NON-ACTUATED VEHICULAR MOVEMENT
- PARTIALLY RESTRICTED NON-ACTUATED VEHICULAR MOVEMENT
- ACTUATED PEDESTRIAN MOVEMENT
- NON-ACTUATED PEDESTRIAN MOVEMENT
- VEHICLE STOPPED

FDW	FLASHING DON'T WALK
W	WALK
DW	DON'T WALK
R/W	RIGHT OF WAY INTERVAL
YRt	YELLOW RIGHT ARROW
RT.	GREEN RIGHT ARROW
LY -YL	YELLOW LEFT ARROW
L	GREEN LEFT ARROW
S	GREEN STRAIGHT AHEAD ARROW
G	CIRCULAR GREEN
Y	CIRCULAR YELLOW
R	CIRCULAR RED
RL	RED LEFT ARROW
Ø	TRAFFIC PHASE
AO	ALL OTHERS
FR	FLASHING RED
FY	FLASHING CIRCULAR YELLOW
FYL	FLASHING YELLOW LEFT ARROW

FLASHING OPERATION	
ALL	FR

CONTROLLER TYPE	NEMA 8○ (UIP)

TRAFFIC SIGNAL CONTROL OPERATION

INTERSECTION OF ROUTE 231/S BROADWAY ST

WITH RIPA AVE

SIGNAL SHEETS
SHEET 19 OF 43

D-38A

LAYOUT	NS	01/2025
DRAWN	SMC	01/2025
REVIEWED	DJK	01/2025

STATE OF MISSOURI
DENNIS J KOSCIELSKI
NUMBER PE-2005000712
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED: 7/15/2025

ROUTE	STATE
231	MO
DISTRICT	SHEET NO.
SL	308

COUNTY: ST. LOUIS

JOB NO.: J6S3631

CONTRACT ID.:

PROJECT NO.:

BRIDGE NO.:

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

DESCRIPTION	DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

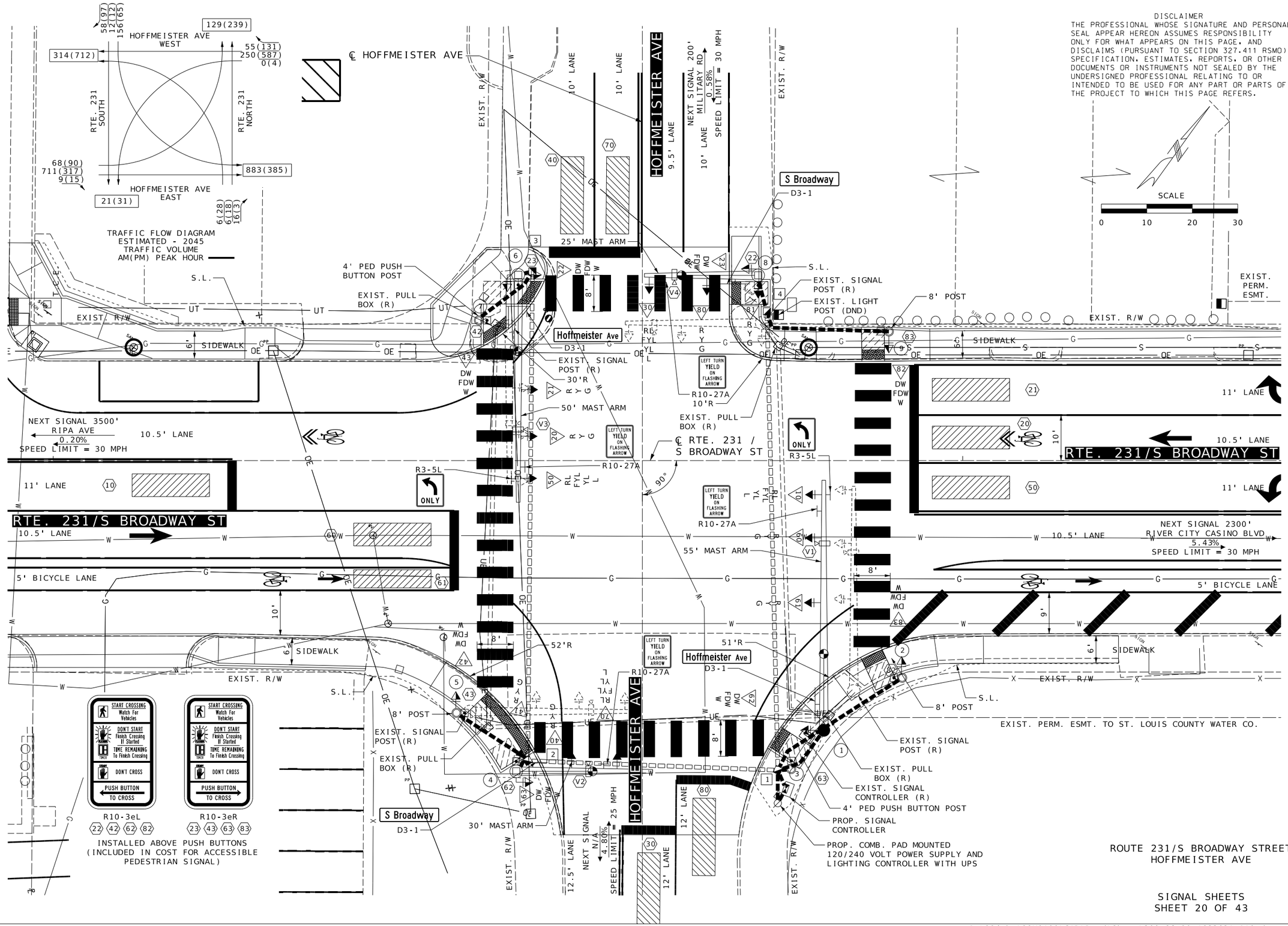
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R10-3eL
22 42 62 82

R10-3eR
23 43 63 83

INSTALLED ABOVE PUSH BUTTONS
(INCLUDED IN COST FOR ACCESSIBLE PEDESTRIAN SIGNAL)

LAYOUT	NS	01/2025
DRAWN	SMC	01/2025
REVIEWED	DJK	01/2025

ROUTE 231/S BROADWAY STREET
HOFFMEISTER AVE

SIGNAL SHEETS
SHEET 20 OF 43

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STATE OF MISSOURI
DENNIS J KOSCIELSKI
NUMBER PE-2005000712
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED
7/15/2025

ROUTE	STATE
231	MO
DISTRICT	SHEET NO.
SL	309

COUNTY
ST. LOUIS

JOB NO.
J6S3631

CONTRACT ID.

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314.770.0467

EFFECTIVE: 07/01/2018

| POST NUMBER | PULL BOX NUMBER | LOCATION APPROACH | LOCATION STATION | LOCATION OFFSET | BASE A 9 | BASE A 9.5 | BASE A 10 | BASE A 10.5 | BASE A 11 | BASE A 12 | BASE F 9 | BASE F 9.5 | BASE F 10 | BASE F 10.5 | BASE F 11 | BASE F 12 | BASE C CONCRETE** (CU. YDS.) | PULL BOX PREFORMED CLASS 1 | PREFORMED CLASS 2 | PREFORMED CLASS 3 | PREFORMED CLASS 5 | CONCRETE STANDARD | CONCRETE DOUBLE, TYPE A | CONCRETE DOUBLE, TYPE B | DRAIN TYPE* I | DRAIN TYPE* II A | DRAIN TYPE* II B | DRAIN TYPE* II C | POST 4 FT. PED POST | POST TOP MOUNT POST 8 FT. | POST TOP MOUNT POST 15 FT. | TYPE C & CL ARM LENGTH A | TYPE C & CL ARM LENGTH A | TYPE C & CL ARM LENGTH A | TYPE C & CL ARM LENGTH A | TYPE C & CL SIGNAL SPACING B | TYPE C & CL SIGNAL SPACING C | TYPE C & CL SIGNAL SPACING D | TYPE C & CL SIGNAL SPACING D' | TYPE C & CL SIGN SPACING B | TYPE C & CL SIGN SPACING C | TYPE C & CL SIGN SPACING D | TYPE C & CL SIGN SPACING D' | TYPE B & BL ARM LENGTH E | TYPE B & BL ARM LENGTH K | TYPE B & BL ARM LENGTH E | TYPE B & BL ARM LENGTH K | TYPE B & BL ARM LENGTH E | TYPE B & BL ARM LENGTH K | TYPE B & BL LEFT ARM E SIGNAL SPACING F | TYPE B & BL LEFT ARM E SIGNAL SPACING G | TYPE B & BL LEFT ARM E SIGNAL SPACING H | TYPE B & BL LEFT ARM E SIGNAL SPACING H' | TYPE B & BL LEFT ARM E SIGN SPACING F | TYPE B & BL LEFT ARM E SIGN SPACING G | TYPE B & BL LEFT ARM E SIGN SPACING H | TYPE B & BL LEFT ARM E SIGN SPACING H' | TYPE B & BL RIGHT ARM K SIGNAL SPACING L | TYPE B & BL RIGHT ARM K SIGNAL SPACING M | TYPE B & BL RIGHT ARM K SIGNAL SPACING N | TYPE B & BL RIGHT ARM K SIGNAL SPACING N' | TYPE B & BL RIGHT ARM K SIGN SPACING L | TYPE B & BL RIGHT ARM K SIGN SPACING M | TYPE B & BL RIGHT ARM K SIGN SPACING N | TYPE B & BL RIGHT ARM K SIGN SPACING N' | INCLUDED ANGLE | LUMINAIRE BRACKET ARM* 4 FT. | LUMINAIRE BRACKET ARM* 6 FT. | LUMINAIRE BRACKET ARM* 8 FT. | LUMINAIRE BRACKET ARM* 10 FT. | LUMINAIRE BRACKET ARM* 12 FT. | LUMINAIRE BRACKET ARM* 15 FT. |
|---|---|---

EFFECTIVE: 10-01-2015

NOTES:

1. INCLUDED IN COST OF P.S.
2. INCLUDED IN COST OF SL DETECTION SYSTEM.
3. ALL LENGTHS ARE IN FEET UNLESS OTHERWISE INDICATED.

CONDUIT (WITH #14 TRACER WIRE)

FROM	TO	CENTER TO CENTER DISTANCE	LOOP DET.	TRENCH				PUSHED			MEDIAN			ON STRUCTURE			REMARKS
			1"	2"	3"	4"		2"	3"	4"	2"	3"	4"	2"	3"		
PP	∅	55						(59)									SEE NOTE 1.
∅	☒	4		12													
∅	1	8			11												
☒	1	5			16												
1	(1)	15			18												
1	(2)	36			37												
1	(3)	6			7												
1	2	55							53								
2	(4)	6			7												
2	(5)	19			20												
2	3	108							106								
3	(6)	4			5												
3	(7)	17			18												
1	4	101							99								
4	(8)	9			10												
4	(9)	26			27												

EFFECTIVE 04-01-2018

POWER SUPPLY

LOCATION			POWER SUPPLY ASSEMBLY		CIRCUIT BREAKER TRIP RATING*				LIGHTING CONTROL * (ON POWER SUPPLY)		SERVICE POLE	
					CONTROLLER		POWER SUPPLY DISCONNECT					
APPROACH	STATION	OFFSET	DRAWING 902.15	SPECIAL DRAWING (4)	AUXILIARY BREAKER	CONT & SIGNAL LAMPS	MAIN BREAKER		120 VOLT CONTROL CABINET	MAIN BREAKER	CONTRACT FURNISH	UTILITY COMPANY
							SIGNALS	LIGHTING				
MO 231	143+59.34	75.30'RT	Type	1	15 Amps	Amps	100 Amps	Amps		Amps	Cl. Ft.	AMEREN
			Type		15 Amps	Amps	Amps	Amps		Amps	Cl. Ft.	

CONTROLLER ASSEMBLY AND AUXILIARY EQUIPMENT

LOCATION			SYSTEM MASTER (CLOSED LOOP)		ACTUATED		ON-OFF* SWITCH TYPE		COORDINATION INTERFACE *						TIME * CLOCK	NEMA CABINET TYPE *			170 CABINET TYPE *		170 SOFTWARE *	
									12C/7C HARDWIRE (1)		TIME BASE	CLOSED LOOP		FIBER								
APPROACH	STATION	OFFSET	NEMA	170	NEMA	170	I	II	MASTER	LOCAL		NEMA	170			E	EV	DOUBLE	332	336S	BITRAN	WAPITI
MO 231	143+61.08	72.13'RT			1												1					

NEMA DETECTOR ASSIGNMENT

		CARD POSITION							
		1	2	3	4	5	6	7	8
CHANNEL	1			SL DETECTION (3)					
	2								

TOTAL NUMBER OF DETECTOR CARDS(2-CHANNEL) = (2)

DETECTOR SCHEDULE

DETECTOR NUMBER	APPROACH	TYPE				
		PUSH BUTTON	INDUCTION LOOP (2)			SL DETECTION (3)
			STANDARD	DELAY/ EXTEND *	CALL UNIT *	
22	SB MO 231	1				
23	NB MO 231	1				
42	EB HOFFMEISTER	1				
43	WB HOFFMEISTER	1				
62	NB MO 231	1				
63	SB MO 231	1				
82	WB HOFFMEISTER	1				
83	EB HOFFMEISTER	1				
10	NB MO 231					V1
60	NB MO 231					V1
70	EB HOFFMEISTER					V2
40	EB HOFFMEISTER					V2
50	SB MO 231					V3
20	SB MO 231					V3
21	SB MO 231					V3
30	WB HOFFMEISTER					V4
80	WB HOFFMEISTER					V4
TOTAL		8				

* ITEMS FOR WHICH SEPARATE PAYMENT WILL NOT BE MADE.

*** USE D3-1 FOR ONE LINE. USE D3-1B FOR TWO LINE.

(1) MoDOT "D" PLUG SHALL BE WIRED INTO ALL NEMA CONTROLLERS WITH 7C HARDWIRE INTERCONNECT.

(2) PAYMENT IS MADE FOR THE NUMBER OF 2-CHANNEL DETECTOR CARDS AS SHOWN BELOW THE ASSIGNMENT CHART.

(3) SEE SL DETECTION SYSTEM JSP FOR ADDITIONAL DETAILS. SIGNAL DETECTION SHALL BE PAID AS 1 PER INTERSECTION. THE CONTRACTOR SHALL PROVIDE AND INSTALL A VEHICLE DETECTION SYSTEM FULLY COVERING DETECTION ZONES AS SHOWN ON THE PLANS. THE METHOD CHOSEN SHALL COMPLY WITH MODOT'S STANDARDS AND SPECIFICATIONS. ALL EQUIPMENT USED IN THE SYSTEM SHALL BE IN ACCORDANCE WITH MODOT'S APPROVED PRODUCT LIST AND RECEIVE ST. LOUIS DISTRICT APPROVAL PRIOR TO INSTALLATION. THIS WILL BE A COMPLETE UNIT WITH ALL COSTS INCLUDED.

(4) POWER SUPPLY SHALL BE PAD MOUNTED 120V/240V SIGNAL POWER SUPPLY & LIGHTING CONTROLLER WITH UNINTERRUPTIBLE POWER SUPPLY. SEE DETAILS.

SIGNAL SIGNS

QUANTITY	MUTCD SIGN NUMBER	SIZE	AREA	SIGN TOTAL AREA ITEM NO. 90208.33	SIGNAL SIGN MOUNTING HARDWARE ITEM NO. 90208.34
		INCHES	SQ.FT.	SQ.FT.	EA.
	R10-10L	24 X 30	5.0		
	R10-10R	24 X 30	5.0		
2	R3-5L	30 X 36	7.5	15.0	2
	R3-5R	30 X 36	7.5		
	R3-5A	30 X 36	7.5		
	R3-6L	30 X 36	7.5		
	R3-6R	30 X 36	7.5		
	R3-2	24 X 24	4.0		
	R3-1	24 X 24	4.0		
	R3-3	24 X 24	4.0		
2	D3-1 ***	78 X 18	9.8	19.5	2
2	D3-1 ***	90 X 18	11.3	22.5	2
	D3-1B ***	VAR. X 18	VAR.		
	R10-3E	9 X 15	0.9		
	R10-11A	24 X 30	5.0		
	R10-13	36 X 24	6.0		
4	R10-27A	30 X 36	7.5	30.0	4
			SUBTOTAL	87	10
			TOTAL	87	10

SL DETECTION (3)
TOTAL = 1 EACH

COMBINATION PAD MOUNTED 120V/240V POWER SUPPLY AND LIGHTING CONTROLLER WITH UPS
TOTAL = 1 EACH

NEMA LOAD SWITCH ASSIGNMENTS (16 - POSITION)

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
PHASE 1	PHASE 2	PHASE 3	PHASE 4	PHASE 5	PHASE 6	PHASE 7	PHASE 8	OLA	OLB	OLC	OLD	PH2 PED	PH4 PED	PH6 PED	PH8 PED

LAYOUT	NS	01/2025
DRAWN	SMC	01/2025
REVIEWED	DJK	01/2025

DENNIS J KOSCIELSKI NUMBER PE-2005000712 STATE OF MISSOURI PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED 7/15/2025

ROUTE	STATE
231	MO
DISTRICT	SHEET NO.
SL	312

COUNTY ST. LOUIS

JOB NO. J6S3631

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION	DATE

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

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TRAFFIC SHEETS
SHEET 23 OF 43

ROUTE 231/S BROADWAY STREET
HOFFMEISTER AVE

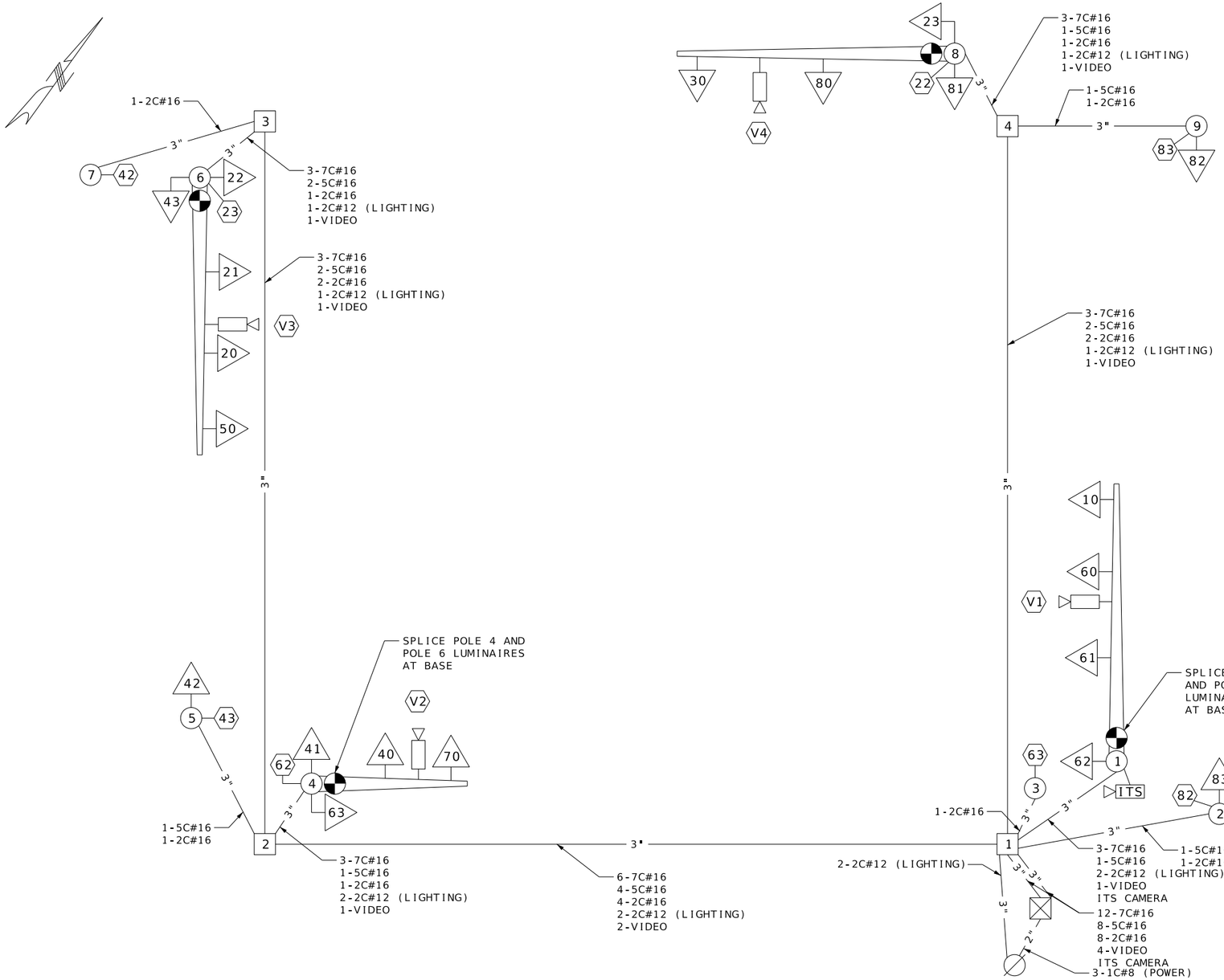
INTERSECTION

D-37C

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EFFECTIVE 12-01-17

WIRING DIAGRAM



LEGEND

3" ——	CONDUIT CONTAINING CABLE WITH SIZE
——	CABLE
X-Xc	MULTI-CONDUCTOR CABLE #16 AWG (UNLESS OTHERWISE INDICATED)
X	PULL BOX WITH NUMBER
X	POST WITH NUMBER
X	POST WITH MAST ARM
X	POST WITH MAST ARM AND LUMINAIRE
X	DETECTOR WITH NUMBER
X	SIGNAL HEAD WITH NUMBER
	SIGNAL CONTROLLER
	COMBINATION PAD MOUNTED 120/240 VOLT POWER SUPPLY AND LIGHTING CONTROLLER WITH UPS
	VIDEO DETECTION CAMERA
ITS	ITS CAMERA (SEE ITS SHEETS)

ROUTE 231/S BROADWAY STREET
HOFFMEISTER AVE

SIGNAL SHEETS
SHEET 24 OF 43

INTERSECTION

D-37D

	NS	SMC	DJK
LAYOUT	01/2025		
DRAWN	01/2025		
REVIEWED	01/2025		

STATE OF MISSOURI
DENNIS J KOSCIELSKI
NUMBER PE-2005000712
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED
7/15/2025

ROUTE	STATE
231	MO
DISTRICT	SHEET NO.
SL	313

COUNTY
ST. LOUIS

JOB NO.
J6S3631

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION	DATE

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

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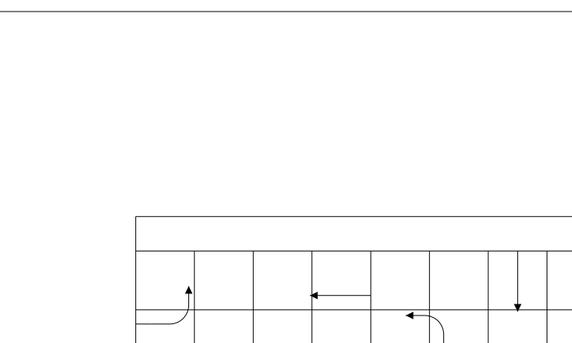
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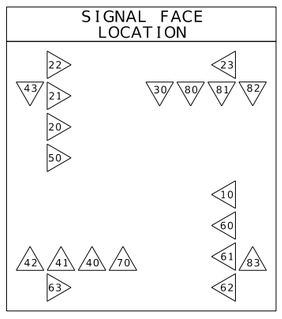
EFFECTIVE 12/01/2017

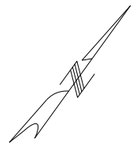
TRAFFIC PHASING AND COLOR SEQUENCE - ACTUATED CONTROLLERS

		PHASE 1	PHASE 2	PHASE 3	PHASE 4	PHASE 5	PHASE 6	PHASE 7	PHASE 8	PED Ø 2 OVERLAP	PED Ø 4 OVERLAP	PED Ø 6 OVERLAP	PED Ø 8 OVERLAP					
FACE NUMBERS		10	20	30	40	50	60	70	80	22	42	62	82	10	30	50	70	FACE NUMBERS
			21		41		61		81	23	43	63	83					
SIGNAL INDICATIONS	R		R		R		R		R	DW	DW	DW	DW	RL	RL	RL	RL	R
	Y		Y		Y		Y		Y	FDW	FDW	FDW	FDW	YL	YL	YL	YL	Y
	FYA													FYL	FYL	FYL	FYL	FYA
	G	L	G	L	G	L	G	L	G	W	W	W	W					G
DETECTOR ASSIGNMENTS		10	20	30	40	50	60	70	80									DETECTOR ASSIGNMENTS
DETECTOR ASSIGNMENTS (PEDS. ONLY)										22 23	42 43	62 63	82 83					
OVERLAP PARENT PHASES														2	4	6	8	



RING STRUCTURE





IF CALLED, ALL NON-CONFLICTING PHASES SHALL COMBINE AND TIME CONCURRENTLY. TIME TO BE DETERMINED BY THE ENGINEER AT SIGNAL TURN ON AND SET IN THE CONTROLLER BY THE CONTRACTOR.

LEGEND

- ACTUATED VEHICULAR MOVEMENT
- PARTIALLY RESTRICTED ACTUATED VEHICULAR MOVEMENT
- NON-ACTUATED VEHICULAR MOVEMENT
- PARTIALLY RESTRICTED NON-ACTUATED VEHICULAR MOVEMENT
- ACTUATED PEDESTRIAN MOVEMENT
- NON-ACTUATED PEDESTRIAN MOVEMENT
- VEHICLE STOPPED

FDW — FLASHING DON'T WALK
W — WALK
DW — DON'T WALK
R/W — RIGHT OF WAY INTERVAL
YRt — YELLOW RIGHT ARROW
RT. — GREEN RIGHT ARROW
LY -YL — YELLOW LEFT ARROW
L — GREEN LEFT ARROW
S — GREEN STRAIGHT AHEAD ARROW
G — CIRCULAR GREEN
Y — CIRCULAR YELLOW
R — CIRCULAR RED
RL — RED LEFT ARROW
Ø — TRAFFIC PHASE
AO — ALL OTHERS
FR — FLASHING RED
FY — FLASHING CIRCULAR YELLOW
FYL — FLASHING YELLOW LEFT ARROW

FLASHING OPERATION	
ALL	FR
CONTROLLER TYPE	NEMA 8∅

TRAFFIC SIGNAL CONTROL OPERATION

INTERSECTION OF ROUTE 231/S BROADWAY ST

WITH HOFFMEISTER AVE

SIGNAL SHEETS
SHEET 25 OF 43

D-38A

LAYOUT	NS	01/2025
DRAWN	SMC	01/2025
REVIEWED	DJK	01/2025

STATE OF MISSOURI
DENNIS J KOSCIELSKI
NUMBER PE-2005000712
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED
7/15/2025

ROUTE	STATE
231	MO
DISTRICT	SHEET NO.
SL	314

COUNTY
ST. LOUIS

JOB NO.
J6S3631

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

DESCRIPTION	DATE

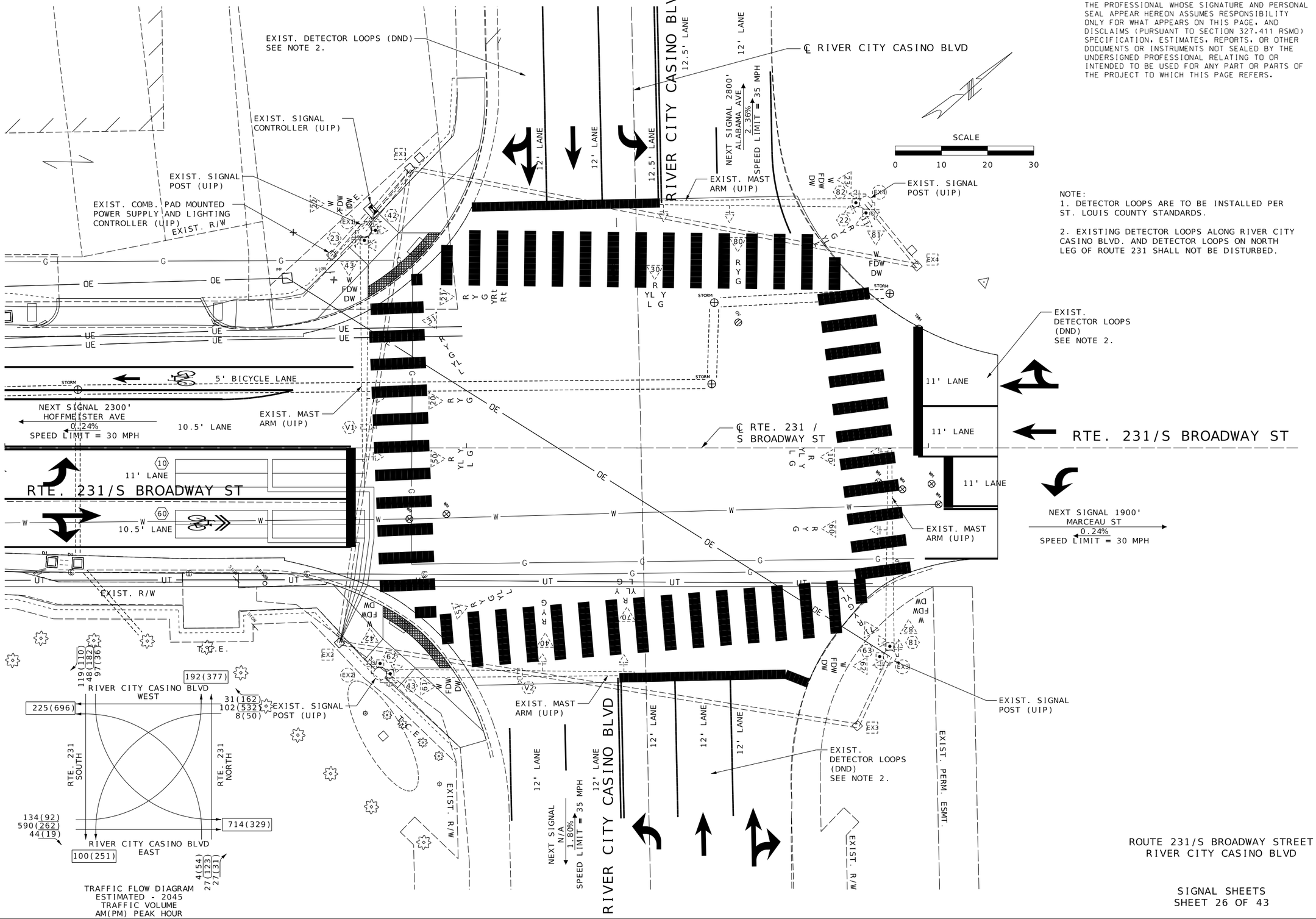
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TRAFFIC FLOW DIAGRAM
ESTIMATED - 2045
TRAFFIC VOLUME
AM(PM) PEAK HOUR

ROUTE 231/S BROADWAY STREET
RIVER CITY CASINO BLVD

SIGNAL SHEETS
SHEET 26 OF 43

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STATE OF MISSOURI
DENNIS J KOSCIELSKI
NUMBER PE-2005000712
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED	
7/15/2025	
ROUTE	STATE
231	MO
DISTRICT	SHEET NO.
SL	315
COUNTY	
ST. LOUIS	
JOB NO.	
J6S3631	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

DATE	DESCRIPTION

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LAYOUT	NS	01/2025
DRAWN	SMC	01/2025
REVIEWED	DJK	01/2025

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NOTE: ALL LENGTHS ARE IN FEET UNLESS OTHERWISE INDICATED.

EFFECTIVE: 10-01-2015

CONDUIT (WITH #14 TRACER WIRE)

FROM	TO	CENTER TO CENTER DISTANCE	LOOP DET.	TRENCH				PUSHED			MEDIAN			ON STRUCTURE			REMARKS
			1"	2"	3"	4"		2"	3"	4"	2"	3"	4"	2"	3"		
EX2	60	14	13														
EX2	60	14	13														
EX2	10	14	13														
EX2	10	14	13														
SUBTOTALS			52														
TOTALS			52														

CABLE

FROM	TO	CENTER TO CENTER DISTANCE	POWER		CONTROL				CLOSED LOOP INTERCONNECT	LUMINAIRE		DETECTOR			FIBER		REMARKS
					2c #16	5c #16	7c #16	3c #16	3 PAIR #16	CONTROL 2c #12	POLE & BRACKET 1c #10	1c #14 IN DUCT	2c #14 LEAD-IN CABLE	VIDEO CABLE	SINGLE-MODE	MULTI-MODE	
	EX2	116											133				
	EX2	116											133				
	EX2	116											133				
	EX2	116											133				
EX2	60	14										277					
EX2	60	14										315					
EX2	10	14										249					
EX2	10	14										287					
SUBTOTALS												1128	532				
TOTALS												1185	559				INCLUDES 5% FOR SNAKING

SIGNAL SHEETS
SHEET 27 OF 43

ROUTE 231/S BROADWAY STREET
RIVER CITY CASINO BLVD

INTERSECTION _____ D-37B

LAYOUT	NS	01/2025
DRAWN	SMC	01/2025
REVIEWED	DJK	01/2025

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STATE OF MISSOURI
DENNIS J KOSCIELSKI
NUMBER PE-2005000712
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED: 7/15/2025

ROUTE	STATE
231	MO

DISTRICT	SHEET NO.
SL	316

COUNTY: ST. LOUIS

JOB NO.: J6S3631

CONTRACT ID.:

PROJECT NO.:

BRIDGE NO.:

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

DESCRIPTION	DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

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314.770.0467

EFFECTIVE 04-01-2018

POWER SUPPLY

LOCATION			POWER SUPPLY ASSEMBLY		CIRCUIT BREAKER TRIP RATING*				LIGHTING CONTROL * (ON POWER SUPPLY)		SERVICE POLE	
					CONTROLLER		POWER SUPPLY DISCONNECT					
APPROACH	STATION	OFFSET	DRAWING 902.15	SPECIAL DRAWING (4)	AUXILIARY BREAKER	CONT & SIGNAL LAMPS	MAIN BREAKER		120 VOLT CONTROL CABINET	MAIN BREAKER	CONTRACT FURNISH	UTILITY COMPANY
							SIGNALS	LIGHTING				
			Type		15 Amps	Amps	Amps	Amps		Amps	Cl. Ft.	
			Type		15 Amps	Amps	Amps	Amps		Amps	Cl. Ft.	

CONTROLLER ASSEMBLY AND AUXILIARY EQUIPMENT

LOCATION			SYSTEM MASTER (CLOSED LOOP)		ACTUATED		ON-OFF* SWITCH TYPE		COORDINATION INTERFACE *					TIME * CLOCK	NEMA CABINET TYPE *			170 CABINET TYPE *		170 SOFTWARE *	
									12C/7C HARDWIRE (1)		TIME BASE	CLOSED LOOP		FIBER							
APPROACH	STATION	OFFSET	NEMA	170	NEMA	170	I	II	MASTER	LOCAL		NEMA	170			E	EV	DOUBLE	332	336S	BITRAN	WAPITI
					1												1					

NEMA DETECTOR ASSIGNMENT

		CARD POSITION							
		1	2	3	4	5	6	7	8
CHANNEL	1	10					60		
	2								

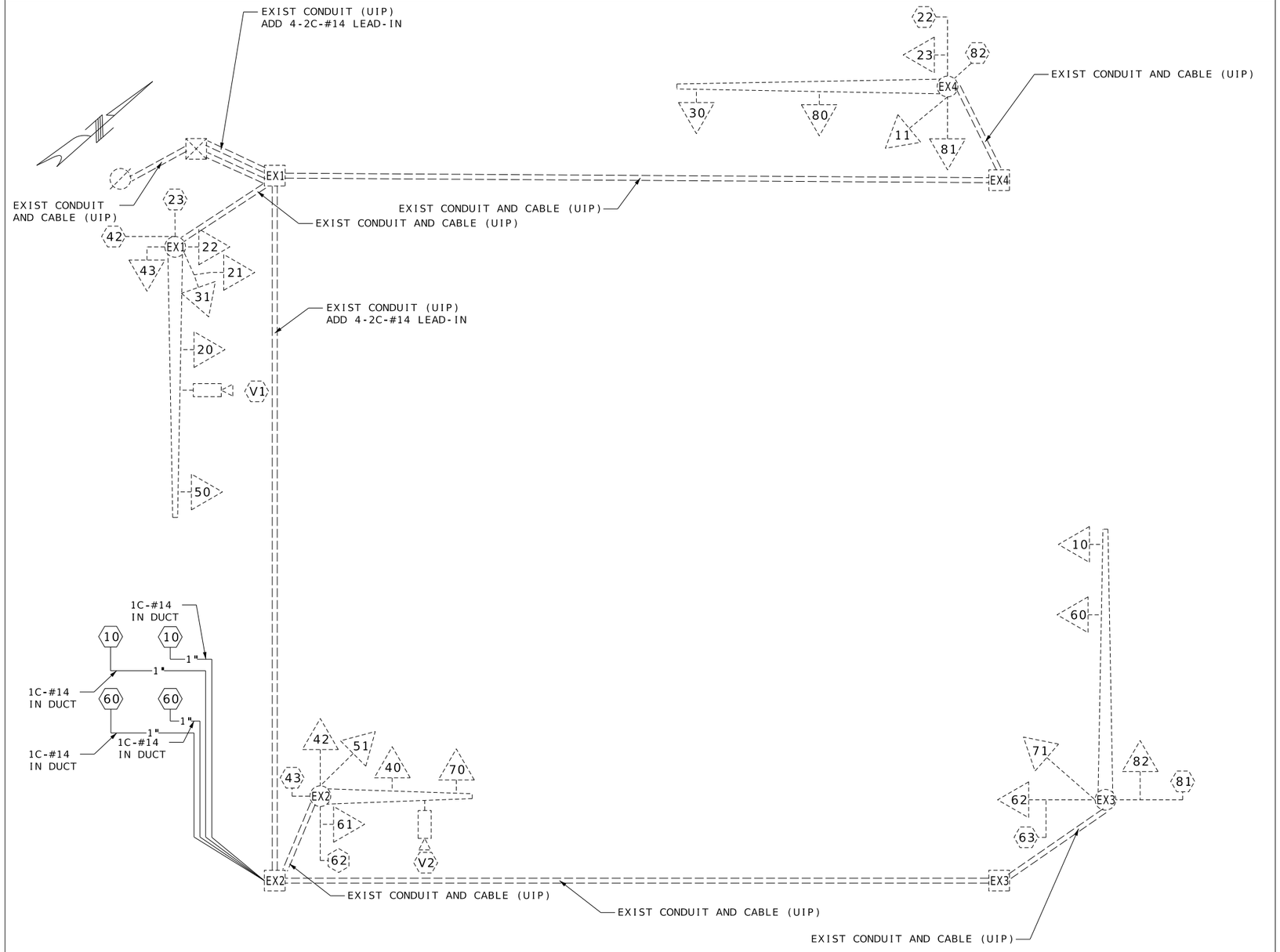
TOTAL NUMBER OF DETECTOR CARDS(2-CHANNEL) = 5 (2)

DETECTOR SCHEDULE

DETECTOR NUMBER	APPROACH	TYPE				
		PUSH BUTTON	INDUCTION LOOP (2)			SL DETECTION (3)
			STANDARD	DELAY/ EXTEND *	CALL UNIT *	
10	NB MO 231		2			
60	NB MO 231		2			

EFFECTIVE 12-01-17

WIRING DIAGRAM



LEGEND

3"	CONDUIT CONTAINING CABLE WITH SIZE
	CABLE
	EXISTING CONDUIT
X-Xc	MULTI-CONDUCTOR CABLE #16 AWG (UNLESS OTHERWISE INDICATED)
X	PULL BOX WITH NUMBER
X	EXISTING PULL BOX WITH NUMBER
X	POST WITH NUMBER
X	POST WITH MAST ARM
X	EXISTING POST WITH MAST ARM
X	POST WITH MAST ARM AND LUMINAIRE
X	DETECTOR WITH NUMBER
X	EXISTING DETECTOR WITH NUMBER
X	SIGNAL HEAD WITH NUMBER
X	EXISTING SIGNAL HEAD WITH NUMBER
	EXIST. SIGNAL CONTROLLER
	EXIST. COMBINATION PAD MOUNTED 120/240 VOLT POWER SUPPLY AND LIGHTING CONTROLLER WITH UPS
	VIDEO DETECTION CAMERA
	EXISTING VIDEO DETECTION CAMERA

ROUTE 231/S BROADWAY STREET
RIVER CITY CASINO BLVD

SIGNAL SHEETS
SHEET 29 OF 43

INTERSECTION

D-37D

LAYOUT	NS	01/2025
DRAWN	SMC	01/2025
REVIEWED	DJK	01/2025

STATE OF MISSOURI
DENNIS J KOSCIELSKI
NUMBER PE-2005000712
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED
7/15/2025

ROUTE	STATE
231	MO
DISTRICT	SHEET NO.
SL	318

COUNTY
ST. LOUIS

JOB NO.
J6S3631

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION	DATE

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL
JEFFERSON CITY, MO 65102
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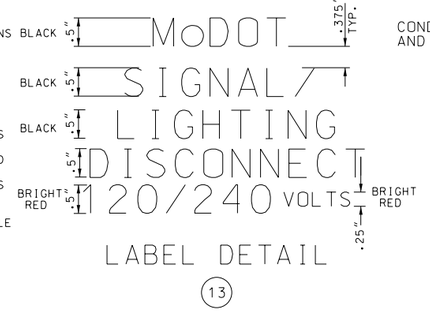
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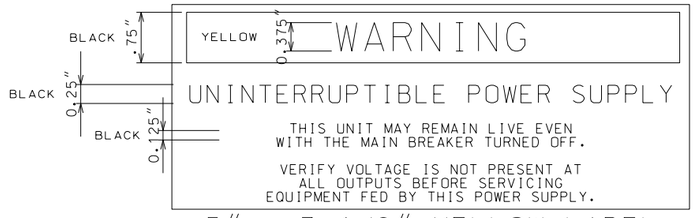
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GENERAL NOTES:

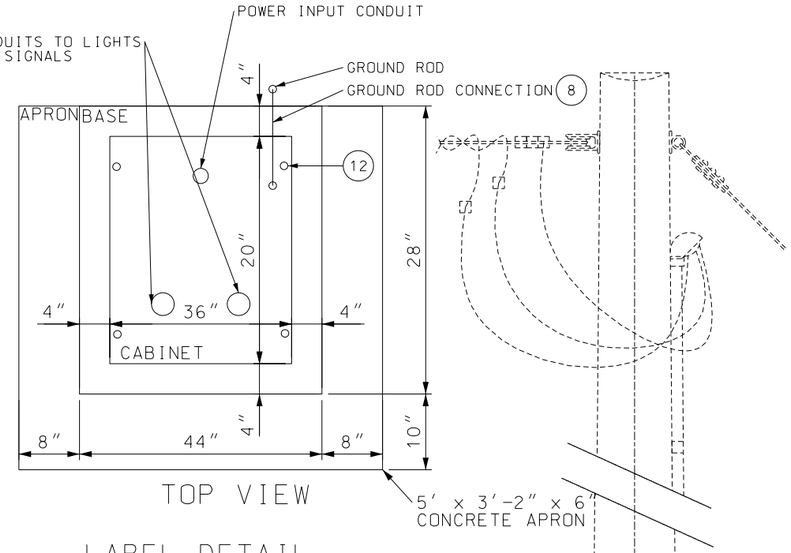
1. ALTERNATE CABINET DIMENSIONS WILL BE ALLOWED AS APPROVED BY THE ENGINEER. INTERIOR CABINET VOLUME SHALL BE EQUAL TO OR GREATER THAN THAT SHOWN ON PLANS AND PROPER CLEARANCES SHALL BE PROVIDED FOR ALL EQUIPMENT. CONCRETE BASE DIMENSIONS SHALL BE MODIFIED TO FIT THE CABINET SUPPLIER.
2. PLACEMENT OF ALL ITEMS SHALL BE APPROVED BY THE ENGINEER.
3. SCHEMATIC DIAGRAM SHALL BE MOUNTED ON INSIDE OF CABINET DOOR.
4. THE UTILITY SHALL BE NOTIFIED IN WRITING 30 DAYS PRIOR TO DATE SERVICE WILL BE REQUIRED.
5. ALL CABINET OPENINGS SHALL BE COVERED AND SEALED WITH LIFETIME SILICONE CAULK.
6. ALL MATERIALS REQUIRED EXCLUDING REFERENCE ITEMS AS SHOWN ON THE DRAWING SHALL BE INCLUDED IN PRICE BID FOR 'PAD MOUNTED POWER SUPPLY AND LIGHTING CONTROLLER WITH UNINTERRUPTIBLE POWER SUPPLY.' CABLE AND CONDUIT FROM POWER SUPPLY ASSEMBLY TO UTILITY COMPANY FACILITIES SHALL BE INCLUDED IN THE BID PRICE.
7. REFER TO PLAN SHEET DETAIL TO DETERMINE IF A UTILITY POLE OR PEDESTAL WILL BE REQUIRED.
8. CABINET SHALL BE LOCATED WITH A MINIMUM 36" CLEARANCE, FRONT, BACK, AND SIDES.
9. SEE CABINET MANUFACTURER FOR MOUNTING BASE DIMENSIONS AND ANCHOR BOLT LOCATIONS.



LABEL DETAIL
(13)



5" x 3 1/2" YELLOW LABEL
(UNDER SIGNAL METER ON LOWER DOOR)

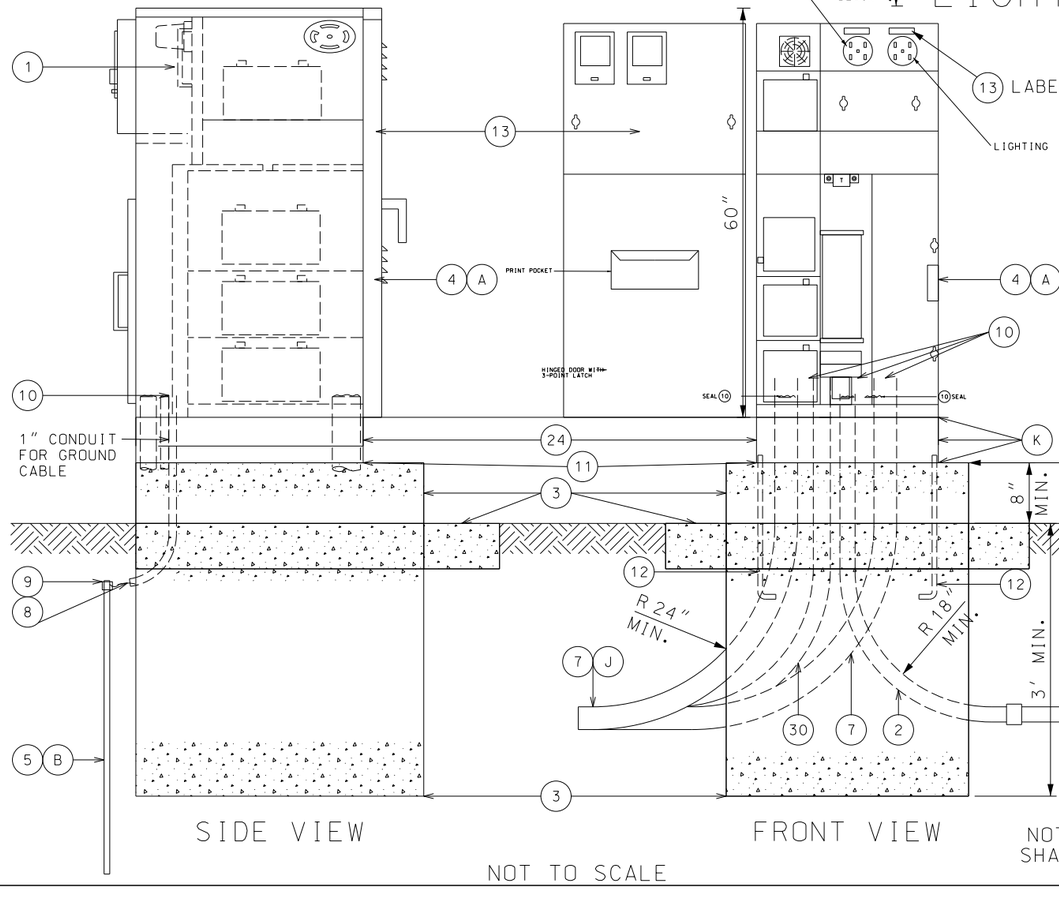


TOP VIEW

5' x 3'-2" x 6" CONCRETE APRON

LABEL DETAIL





SIDE VIEW

FRONT VIEW

NOTE: CONDUITS RUNNING INTO CONC. BASE SHALL BE STUBBED 1" ABOVE TOP OF BASE.

NOT TO SCALE

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LIST OF MATERIALS	
ITEM	DESCRIPTION
1	METER SOCKET, 200 AMP, WITH LEVER TEST BYPASS
2	RIGID STEEL CONDUIT, 2" MIN. TO UTILITY CO. FACILITIES
3	CLASS B CONCRETE, 1.3 cu. yd. (MIN.)
4	NEMA 3R, DUST-TIGHT, WATERTIGHT CABINET
5	GROUND ROD, 3/4" DIA. x 8' MIN. (MIN. 8' IN SOIL)
6	PHOTOELECTRIC SWITCH AND SOCKET, 105/285 V., 1000 WATT
7	2" MIN. SCH 40 PVC CONDUIT (REF.)
8	#2 AWG MIN., 600 V., GROUND CABLE
9	EXOTHERMIC WELD WIRE TO ROD
10	PLIABLE SEALANT
11	LIFETIME SILICONE CAULK
12	ANCHOR BOLTS, 5/8-11 x 18" LONG BOLTS, HOT DIP GALVANIZED, 4 REQUIRED
13	WEATHERPROOF ADHESIVE LABEL, VINYL RAISED LETTERING (OR EQUIVALENT, SEE DETAIL)
14	INSULATED TERMINAL BLOCK
15	2-POLE, 20 AMP, 120V COIL LIGHTING CONTACTOR
16	2-POLE, 650 VOLT LIGHTNING ARRESTER
17	1-POLE, 15 AMP, TYPE B BREAKER TO PHOTOELECTRIC SWITCH
18	MANUAL-AUTO SWITCH
19	INSULATED GROUNDABLE NEUTRAL, 100 AMP
20	2-POLE, TYPE A MAIN BREAKER
21	2-POLE, 15 AMP (MIN), TYPE A BREAKERS TO LIGHTING CIRCUITS *
22	1-POLE, 15 AMP (MIN.), TYPE A BREAKER TO SIGNALS *
23	#2 AWG MIN., 600 V., POWER CABLE *
24	6" PEDESTAL RISER
25	12V GEL CELL BATTERIES IN SERIES (4 MINIMUM)
26	30A GENERATOR MALE BASE
27	INVERTER (1100VA MINIMUM)
28	1-POLE, 40 AMP, TYPE B UPS BREAKER
29	1-POLE, 15 AMP, TYPE B FAN BREAKER
30	1 ½" CONDUIT OUT TO SIGNAL CABINET (CAT 5E AND CONTROL WIRING)
*	SEE PLANS FOR SIZE

NOTES

(A) CABINET WITH POWER SUPPLY SHALL BE ALUMINUM OR STAINLESS STEEL. ALL HARDWARE, HINGES, CATCHES, ETC. SHALL BE STAINLESS STEEL. METER SOCKET AND OTHER EQUIPMENT AND MATERIALS SHALL BE U.L. APPROVED AND CONFORM TO THE REQUIREMENTS OF THE UTILITY COMPANY OR MUNICIPALITY PROVIDING POWER.

(B) IF SUBSURFACE CONDITIONS EXIST WHICH PROHIBIT THE PLACEMENT OF THE GROUND ROD IN A VERTICAL POSITION, THE ROD MAY BE DRIVEN AT AN OBLIQUE ANGLE NOT TO EXCEED 45 DEGREES FROM VERTICAL OR BURIED IN A TRENCH AT LEAST 30 INCHES DEEP. CONNECTION TO GROUND ROD SHALL BE CAD WELDED.

(C) LIGHTING SYSTEM VOLTAGE AS SPECIFIED ON PLANS (120 OR 240 VOLTS). IF LIGHTS ARE TO BE MOUNTED ON SIGNAL POSTS, VOLTAGE MUST BE 120 VOLTS. 240 VOLT LIGHTS ARE NOT TO BE MOUNTED ON OR WIRED THROUGH SIGNAL POSTS, CONDUIT, OR PULL BOXES.

(D) LOCATE PHOTOELECTRIC SWITCH AT CENTER OF WINDOW.

(E) IF FOR REASONS OF VOLTAGE DROP A WIRE SIZE IS SPECIFIED LARGER THAN #2 AWG, A LARGER TERMINAL BLOCK SHALL BE INSTALLED FOR THAT CIRCUIT.

(F) BREAKER SIZING:

SIZE (AMPS)	240V TOTAL CIRCUIT LOAD (WATTS)	120V TOTAL CIRCUIT LOAD (WATTS)
15	0-2800	0-1390
20	2850-3700	1400-1850
25	3750-4600	1860-2320
30	4650-5500	2330-2780
35	5550-6500	-
40	6550-7400	-

CIRCUIT LOAD INCLUDES LOAD DUE TO LINE LOSS, LAMP, AND BALLAST LOAD.

(G) ALL CIRCUIT BREAKERS SHALL CONFORM TO SECTION 901.4 OF THE STANDARD SPECIFICATIONS.

(H) TAPE BATTERY TEMPERATURE SENSOR TO THE SIDE OF EITHER BATTERY #2 OR BATTERY #3. SENSOR SHOULD BE TO THE MIDDLE OF THE BATTERY BANK.

(I) UTILITY COMPANY SHALL DECIDE IF LIGHTNING ARRESTORS ARE TO BE CONNECTED ON THE LINE SIDE OR THE LOAD SIDE OF THE METER. THE UTILITY COMPANY SHALL ALSO DETERMINE WHERE THE LIGHTNING ARRESTOR SHALL BE MOUNTED.

(J) INCLUDE ADDITIONAL CONDUITS AS NECESSARY FOR AUXILIARY CIRCUITS.

(K) SEE CABINET MANUFACTURER FOR MOUNTING BASE DIMENSIONS AND ANCHOR BOLT LOCATIONS.

SIGNAL SHEETS
PAD MOUNTED 120V/240V POWER SUPPLY & LIGHTING CONTROLLER W/ UNINTERRUPTIBLE POWER SUPPLY DETAIL
SHEET 30 OF 43

LAYOUT	NS	01/2025
DRAWN	SMC	01/2025
REVIEWED	DJK	01/2025

STATE OF MISSOURI
DENNIS J KOSCIELSKI
NUMBER PE-2005000712
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED
7/15/2025

ROUTE	STATE
231	MO
DISTRICT	SHEET NO.
SL	319

COUNTY
ST. LOUIS

JOB NO.
J6S3631

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DATE	DESCRIPTION

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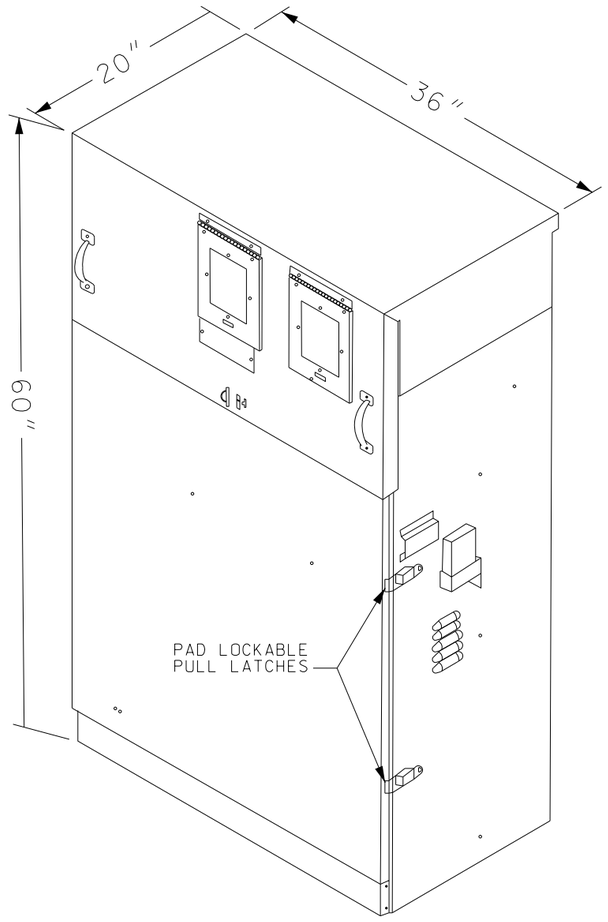
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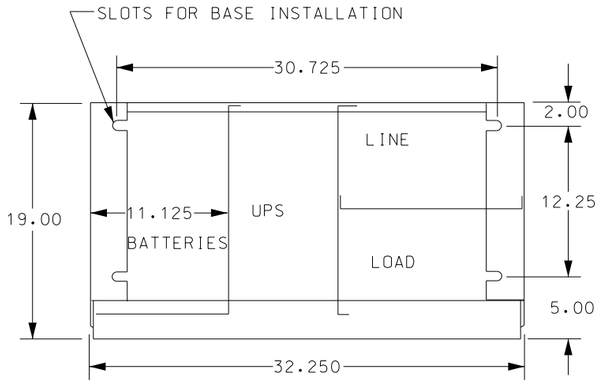
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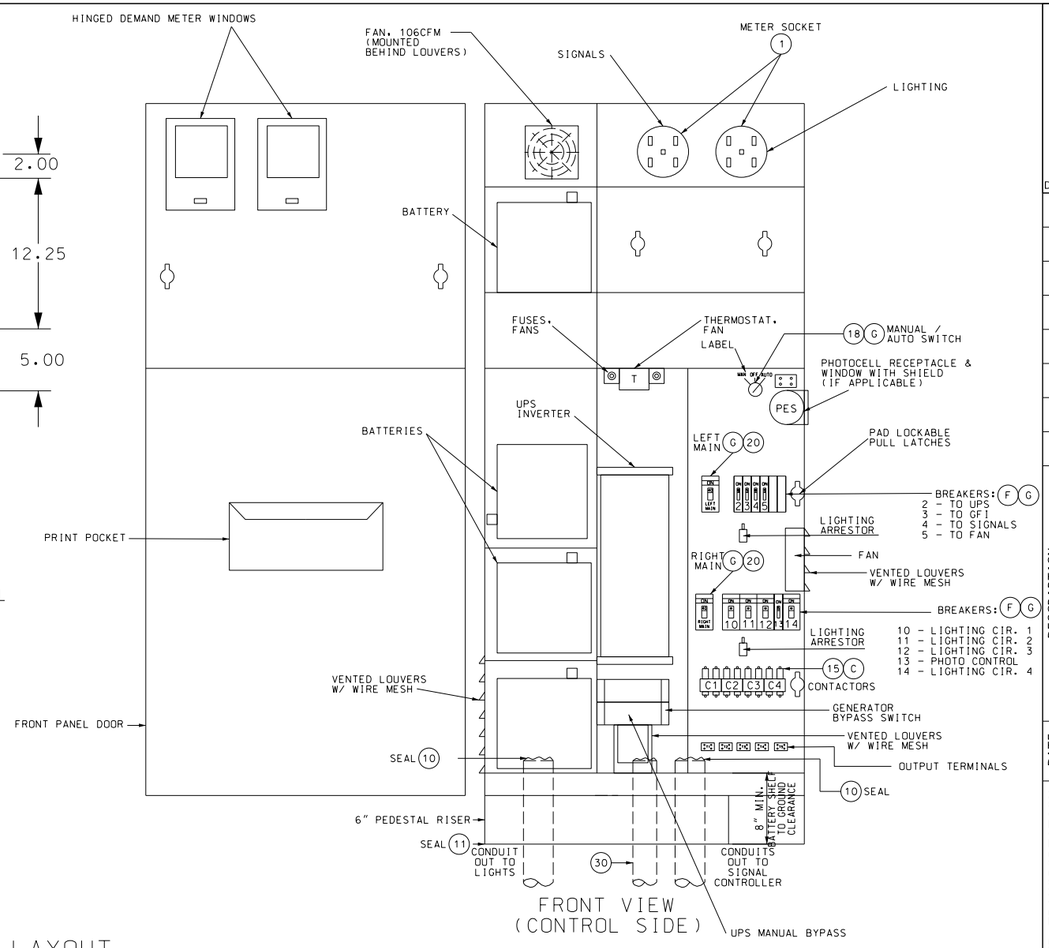


PEDESTAL PLAN VIEW
MOUNTING SLOT DETAIL

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NOTE: WHERE SPACE PROVIDES, UPS SHALL HAVE ADDITIONAL LABELS DENOTING 'LIGHTING' CONTROLS



EQUIPMENT LAYOUT
NOT TO SCALE

FRONT VIEW (CONTROL SIDE)

NOTE: CONDUITS RUNNING INTO CONC. BASE SHALL BE STUBBED 1" ABOVE TOP OF BASE.

LIST OF MATERIALS			
ITEM	DESCRIPTION		
1	METER SOCKET, 200 AMP, WITH LEVER TEST BYPASS		
2	RIGID STEEL CONDUIT, 2" MIN. TO UTILITY CO. FACILITIES		
3	CLASS B CONCRETE, 1.3 cu. yd. (MIN.)		
4	NEMA 3R, DUST-TIGHT, WATERTIGHT CABINET		
5	GROUND ROD, 3/4" DIA. x 8' MIN. (MIN. 8' IN SOIL)		
6	PHOTOELECTRIC SWITCH AND SOCKET, 105/285 V., 1000 WATT		
7	2" MIN. SCH 40 PVC CONDUIT (REF.)		
8	#2 AWG MIN., 600 V., GROUND CABLE		
9	EXOTHERMIC WELD WIRE TO ROD		
10	PLIABLE SEALANT		
11	LIFETIME SILICONE CAULK		
12	ANCHOR BOLTS, 5/8-11 x 18" LONG BOLTS, HOT DIP GALVANIZED, 4 REQUIRED		
13	WEATHERPROOF ADHESIVE LABEL, VINYL RAISED LETTERING (OR EQUIVALENT, SEE DETAIL)		
14	INSULATED TERMINAL BLOCK		
15	2-POLE, 20 AMP, 120V COIL LIGHTING CONTACTOR		
16	2-POLE, 650 VOLT LIGHTNING ARRESTER		
17	1-POLE, 15 AMP, TYPE B BREAKER TO PHOTOELECTRIC SWITCH		
18	MANUAL-AUTO SWITCH		
19	INSULATED GROUNDABLE NEUTRAL, 100 AMP		
20	2-POLE, TYPE A MAIN BREAKER	26	30A GENERATOR MALE BASE
21	2-POLE, 15 AMP (MIN), TYPE A BREAKERS TO LIGHTING CIRCUITS ✳	27	INVERTER (1100VA MINIMUM)
22	1-POLE, 15 AMP (MIN.), TYPE A BREAKER TO SIGNALS ✳	28	1-POLE, 40 AMP, TYPE B UPS BREAKER
23	#2 AWG MIN., 600 V., POWER CABLE ✳	29	1-POLE, 15 AMP, TYPE B FAN BREAKER
24	6" PEDESTAL RISER	30	1 ½" CONDUIT OUT TO SIGNAL CABINET (CAT 5E AND CONTROL WIRING)
25	12V GEL CELL BATTERIES IN SERIES (4 MINIMUM)	✳	SEE PLANS FOR SIZE

NOTES

(A) CABINET WITH POWER SUPPLY SHALL BE ALUMINUM OR STAINLESS STEEL. ALL HARDWARE, HINGES, CATCHES, ETC. SHALL BE STAINLESS STEEL. METER SOCKET AND OTHER EQUIPMENT AND MATERIALS SHALL BE U.L. APPROVED AND CONFORM TO THE REQUIREMENTS OF THE UTILITY COMPANY OR MUNICIPALITY PROVIDING POWER.

(B) IF SUBSURFACE CONDITIONS EXIST WHICH PROHIBIT THE PLACEMENT OF THE GROUND ROD IN A VERTICAL POSITION, THE ROD MAY BE DRIVEN AT AN OBLIQUE ANGLE NOT TO EXCEED 45 DEGREES FROM VERTICAL OR BURIED IN A TRENCH AT LEAST 30 INCHES DEEP. CONNECTION TO GROUND ROD SHALL BE CAD WELDED.

(C) LIGHTING SYSTEM VOLTAGE AS SPECIFIED ON PLANS (120 OR 240 VOLTS). IF LIGHTS ARE TO BE MOUNTED ON SIGNAL POSTS, VOLTAGE MUST BE 120 VOLTS. 240 VOLT LIGHTS ARE NOT TO BE MOUNTED ON OR WIRED THROUGH SIGNAL POSTS, CONDUIT, OR PULL BOXES.

(D) LOCATE PHOTOELECTRIC SWITCH AT CENTER OF WINDOW.

(E) IF FOR REASONS OF VOLTAGE DROP A WIRE SIZE IS SPECIFIED LARGER THAN #2 AWG, A LARGER TERMINAL BLOCK SHALL BE INSTALLED FOR THAT CIRCUIT.

(F) BREAKER SIZING:

SIZE (AMPS)	240V TOTAL CIRCUIT LOAD (WATTS)	120V TOTAL CIRCUIT LOAD (WATTS)
15	0-2800	0-1390
20	2850-3700	1400-1850
25	3750-4600	1860-2320
30	4650-5500	2330-2780
35	5550-6500	-
40	6550-7400	-

CIRCUIT LOAD INCLUDES LOAD DUE TO LINE LOSS, LAMP, AND BALLAST LOAD.

(G) ALL CIRCUIT BREAKERS SHALL CONFORM TO SECTION 901.4 OF THE STANDARD SPECIFICATIONS.

(H) TAPE BATTERY TEMPERATURE SENSOR TO THE SIDE OF EITHER BATTERY #2 OR BATTERY #3. SENSOR SHOULD BE TO THE MIDDLE OF THE BATTERY BANK.

(I) UTILITY COMPANY SHALL DECIDE IF LIGHTNING ARRESTORS ARE TO BE CONNECTED ON THE LINE SIDE OR THE LOAD SIDE OF THE METER. THE UTILITY COMPANY SHALL ALSO DETERMINE WHERE THE LIGHTNING ARRESTOR SHALL BE MOUNTED.

(J) INCLUDE ADDITIONAL CONDUITS AS NECESSARY FOR AUXILIARY CIRCUITS.

(K) SEE CABINET MANUFACTURER FOR MOUNTING BASE DIMENSIONS AND ANCHOR BOLT LOCATIONS.

	NS	01/2025
LAYOUT	SMC	01/2025
DRAWN	DJK	01/2025
REVIEWED		

STATE OF MISSOURI
DENNIS J KOSCIELSKI
NUMBER PE-2005000712
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED: 7/15/2025
ROUTE: 231 | STATE: MO
DISTRICT: SL | SHEET NO.: 320
COUNTY: ST. LOUIS
JOB NO.: J6S3631
CONTRACT ID.:
PROJECT NO.:
BRIDGE NO.:

DESCRIPTION | DATE

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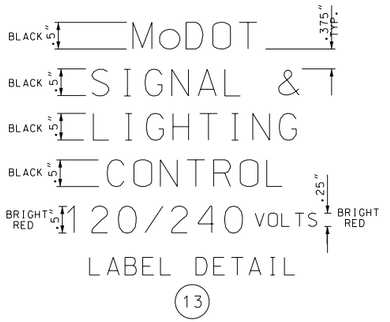
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JEFFERSON CITY, MO 65102
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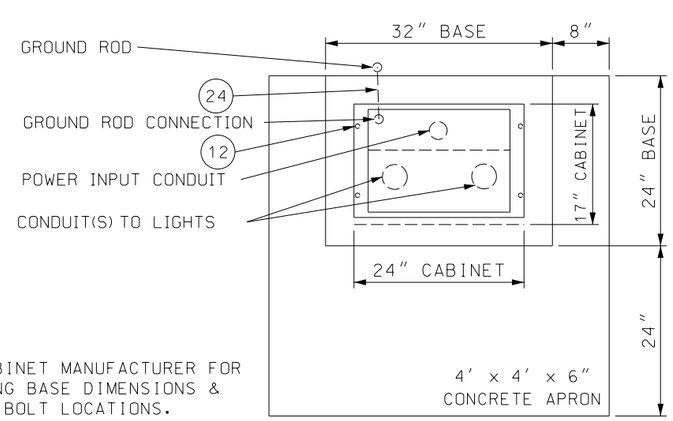
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314.770.0467

SIGNAL SHEETS
SHEET 31 OF 43

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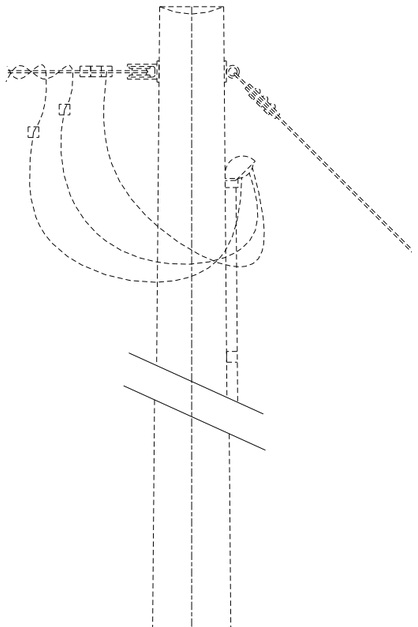


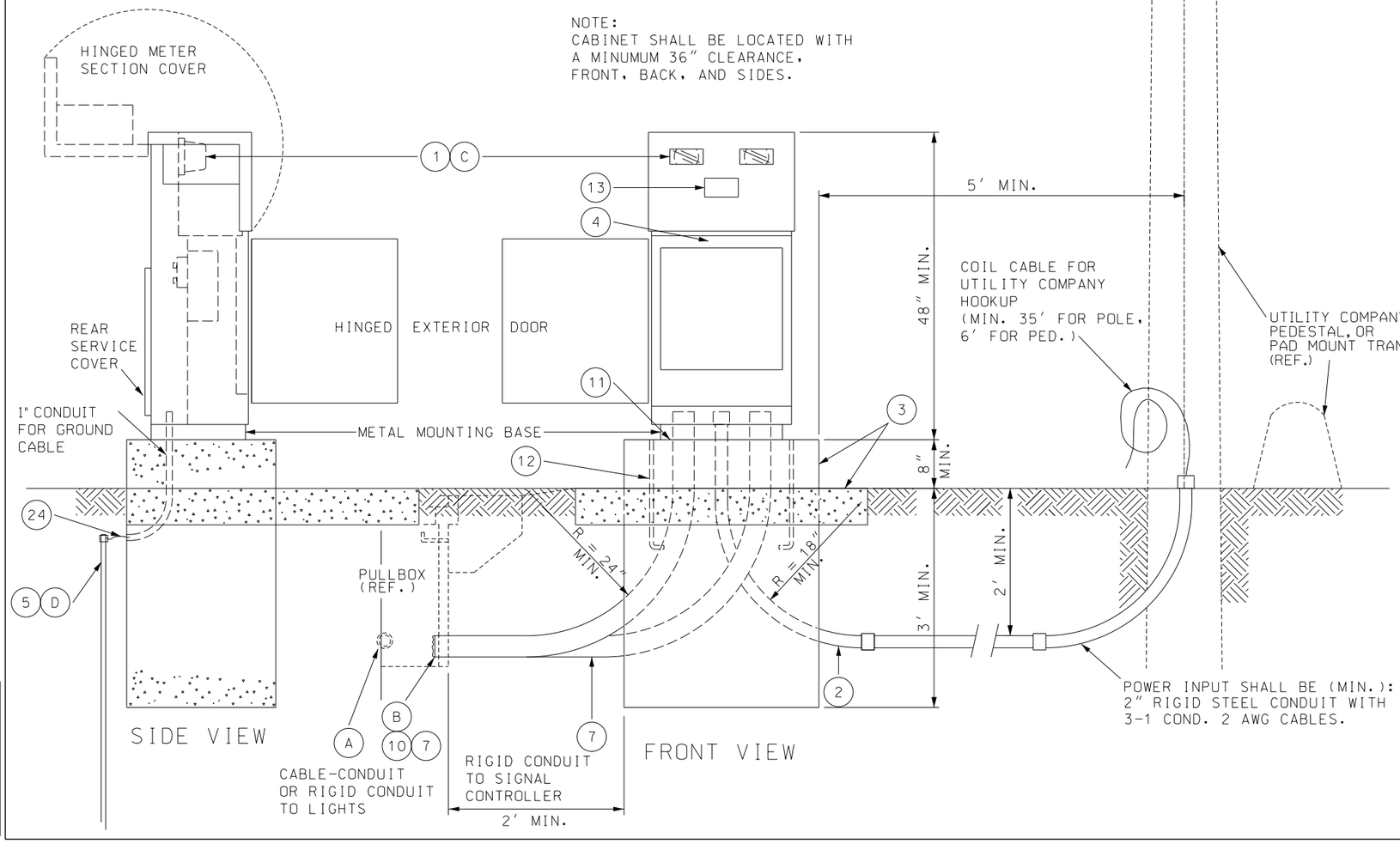


SEE CABINET MANUFACTURER FOR MOUNTING BASE DIMENSIONS & ANCHOR BOLT LOCATIONS.

TOP VIEW

NOTE:
CABINET SHALL BE LOCATED WITH A MINUMUM 36" CLEARANCE, FRONT, BACK, AND SIDES.





LIST OF MATERIALS	
ITEM	DESCRIPTION
1	METER SOCKET, 200 AMP
2	RIGID STEEL CONDUIT, 2" MIN. TO UTILITY CO. FACILITIES
3	CLASS B CONCRETE, 0.9 C.Y.±
4	NEMA 4, DUST-TIGHT, WATERTIGHT, CABINET
5	GROUND ROD, 3/4" DIA. X 8' MIN. (MIN. 8' IN SOIL)
7	RIGID CONDUIT TO FIRST PULL BOX (SEE PLANS FOR SIZE)
10	PLIABLE DUCT SEALANT
11	LIFETIME SILICONE CAULK
12	ANCHOR BOLTS, 3/4 - 11 x 18" LONG BOLTS, HOT DIP GALVANIZED, 4 REQUIRED
13	WEATHERPROOF ADHESIVE LABEL, VINYL RAISED LETTERING (OR EQUIVALENT, SEE DETAIL)
24	GROUND WIRE, #2 AWG, MIN.

NOTES

(A) IF CABLE-CONDUIT IS SPECIFIED, THE CONDUIT SHALL BE CUT AWAY FROM CABLES BETWEEN PULL BOX AND CONTROL STATION.

(B) LIGHTING SYSTEM VOLTAGE AS SPECIFIED ON PLANS (120 OR 240 VOLTS). IF LIGHTS ARE TO BE MOUNTED ON SIGNAL POSTS, VOLTAGE MUST BE 120 VOLTS. 240 VOLT LIGHTS ARE NOT TO BE MOUNTED ON OR WIRED THROUGH SIGNAL POSTS, CONDUIT, OR PULL BOXES.

(C) CONTROLLER CABINET WITH POWER SUPPLY SHALL BE ALUMINUM OR STAINLESS STEEL. ALL HARDWARE, HINGES, CATCHES, ETC. SHALL BE STAINLESS STEEL. METER SOCKET AND OTHER EQUIPMENT AND MATERIALS SHALL BE U.L. APPROVED, AND CONFORM TO THE REQUIREMENTS OF THE UTILITY COMPANY OR MUNICIPALITY PROVIDING POWER.

(D) IF SUBSURFACE CONDITIONS EXIST WHICH PROHIBIT THE PLACEMENT OF THE GROUND ROD IN A VERTICAL POSITION, THE ROD MAY BE DRIVEN AT AN OBLIQUE ANGLE NOT TO EXCEED 45 DEGREES FROM VERTICAL OR BURIED IN A TRENCH AT LEAST 30 IN. DEEP. CONNECTION TO GROUND ROD SHALL BE CADWELDED.

(E) UTILITY COMPANY SHALL DECIDE IF LIGHTNING ARRESTERS ARE TO BE CONNECTED ON THE LOAD OR LINE SIDE OF THE METER. THE UTILITY COMPANY SHALL ALSO DECIDE WHERE THE LIGHTNING ARRESTER SHALL BE MOUNTED.

GENERAL NOTES:

ALTERNATE CABINET DIMENSIONS WILL BE ALLOWED AS APPROVED BY THE ENGINEER. INTERIOR CABINET VOLUME SHALL BE EQUAL TO OR GREATER THAN THAT SHOWN ON PLANS AND PROPER CLEARANCES SHALL BE PROVIDED FOR ALL EQUIPMENT. CONCRETE BASE DIMENSIONS SHALL BE MODIFIED TO FIT THE CABINET SUPPLIER.

PLACEMENT OF ALL ITEMS SHALL BE APPROVED BY THE ENGINEER.

CABINET SHALL BE LOCATED AWAY FROM TRAFFIC. TOP MOUNT PHOTO CONTROL SHALL FACE AN OPEN SKY. SIDE MOUNT PHOTO CONTROL SHALL FACE NORTH.

SEE PLANS FOR CIRCUIT WIRING; MAXIMUM LOADING PER CIRCUIT IS 7.400 WATTS.

SCHEMATIC DIAGRAM SHALL BE MOUNTED ON INSIDE OF CABINET DOOR.

THE UTILITY SHALL BE NOTIFIED IN WRITING 30 DAYS PRIOR TO DATE SERVICE WILL BE REQUIRED.

ALL CABINET OPENINGS SHALL BE COVERED AND SEALED WITH LIFETIME SILICONE CAULK.

ALL MATERIALS REQUIRED EXCLUDING REFERENCE ITEMS AS SHOWN ON DRAWING SHALL BE INCLUDED IN PRICE BID FOR '120/240V COMBINATION BASE MOUNTED POWER SUPPLY AND CONTROL STATION'.

CABLE AND CONDUIT FROM POWER SUPPLY ASSEMBLY TO UTILITY COMPANY FACILITIES SHALL BE INCLUDED IN PRICE BID FOR '120/240V COMBINATION BASE MOUNTED POWER SUPPLY AND CONTROL STATION'.

LAYOUT	NS	01/2025
DRAWN	SMC	01/2025
REVIEWED	DJK	01/2025

120-240v COMBINATION BASE MOUNTED POWER SUPPLY & LIGHTING CONTROL STATION DUAL METER

SIGNAL SHEETS
SHEET 31A OF 43

STATE OF MISSOURI
DENNIS J KOSCIELSKI
NUMBER PE-2005000712
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED
7/15/2025

ROUTE	STATE
231	MO
DISTRICT	SHEET NO.
SL	320A

COUNTY
ST. LOUIS

JOB NO.
J6S3631

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

DESCRIPTION	DATE

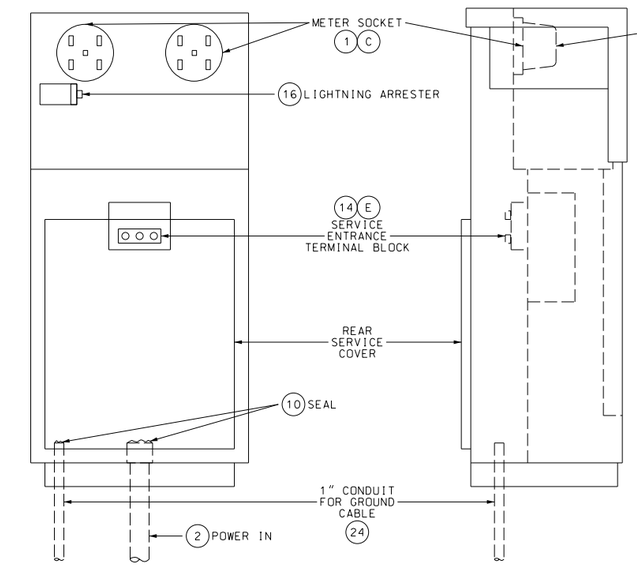
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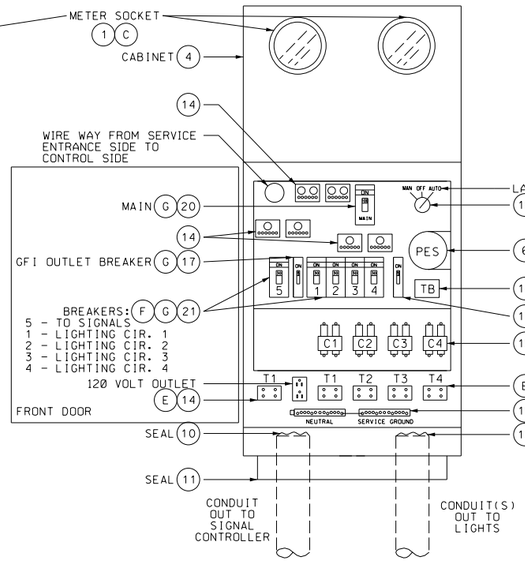
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REAR VIEW
(SERVICE ENTRANCE)

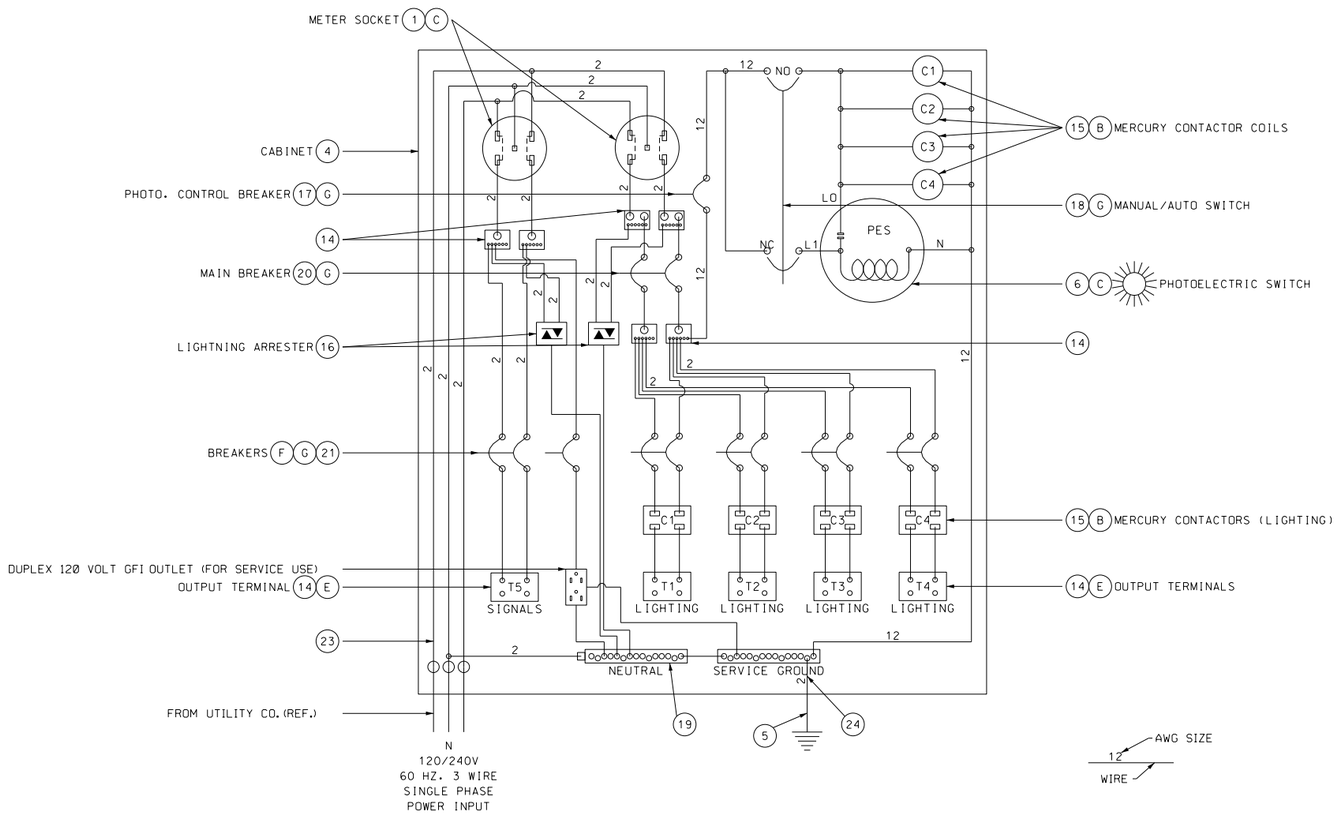


SIDE VIEW

FRONT VIEW
(CONTROL SIDE)

EQUIPMENT LAYOUT

LIST OF MATERIALS	
ITEM	DESCRIPTION
1	METER SOCKET, 200 AMP, WITH LEVER TEST BYPASS
2	RIGID STEEL CONDUIT, 2" MIN. TO UTILITY CO. FACILITIES
4	NEMA 3R, DUST-TIGHT, WATERTIGHT CABINET
5	GROUND ROD, 3/4" DIA. X 8' MIN. (MIN. 8' IN SOIL)
6	PHOTOELECTRIC SWITCH AND SOCKET, 105/285 V., 1000 WATT
10	PLIABLE SEALANT
11	LIFETIME SILICONE CAULK
14	INSULATED TERMINAL BLOCK
15	2-POLE, 35 AMP, 120V COIL LIGHTING CONTACTOR (MERCURY)
16	2-POLE, 650 VOLT LIGHTNING ARRESTER
17	1-POLE, 15 AMP, TYPE B BREAKER TO PHOTOELECTRIC SWITCH
18	MANUAL-AUTO SWITCH
19	INSULATED GROUNDABLE NEUTRAL, 100 AMP
20	2-POLE, 100 AMP, TYPE A MAIN BREAKER
21	2-POLE, 15 AMP (MIN), TYPE A BREAKERS *
22	#12 AWG MIN., 600 V., CONTROL CABLE
23	#2 AWG MIN., 600 V., POWER CABLE *
24	#2 AWG MIN., 600 V., GROUND CABLE
*	SEE PLANS FOR SIZE



WIRING DIAGRAM

NOTES

(B) LIGHTING SYSTEM VOLTAGE AS SPECIFIED ON PLANS (120 OR 240 VOLTS). IF LIGHTS ARE TO BE MOUNTED ON SIGNAL POSTS, VOLTAGE MUST BE 120 VOLTS. 240 VOLT LIGHTS ARE NOT TO BE MOUNTED ON OR WIRED THROUGH SIGNAL POSTS, CONDUIT, OR PULL BOXES.

(C) LOCATE PHOTOELECTRIC SWITCH AT CENTER OF WINDOW.

(E) IF FOR REASONS OF VOLTAGE DROP A WIRE SIZE IS SPECIFIED LARGER THAN #2 AWG, A LARGER TERMINAL BLOCK SHALL BE INSTALLED FOR THAT CIRCUIT.

(F) BREAKER SIZING:

SIZE (AMPS)	240V TOTAL CIRCUIT LOAD (WATTS)	120V TOTAL CIRCUIT LOAD (WATTS)
15	0-2800	0-1390
20	2850-3700	1400-1850
25	3750-4600	1860-2320
30	4650-5500	2330-2780
35	5550-6500	-
40	6550-7400	-

CIRCUIT LOAD INCLUDES LOAD DUE TO LINE LOSS, LAMP, AND BALLAST LOAD.

(G) ALL CIRCUIT BREAKERS SHALL CONFORM TO SECTION 901.4 OF THE STANDARD SPECIFICATIONS.

LAYOUT	NS	01/2025
DRAWN	SMC	01/2025
REVIEWED	DJK	01/2025

120-240v COMBINATION BASE MOUNTED POWER SUPPLY & LIGHTING CONTROL STATION DUAL METER (CONT.)

SIGNAL SHEETS
SHEET 31B OF 43

STATE OF MISSOURI
DENNIS J KOSCIELSKI
NUMBER PE-2005000712
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED
7/15/2025

ROUTE	STATE
231	MO
DISTRICT	SHEET NO.
SL	320B

COUNTY
ST. LOUIS

JOB NO.
J6S3631

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION	DATE

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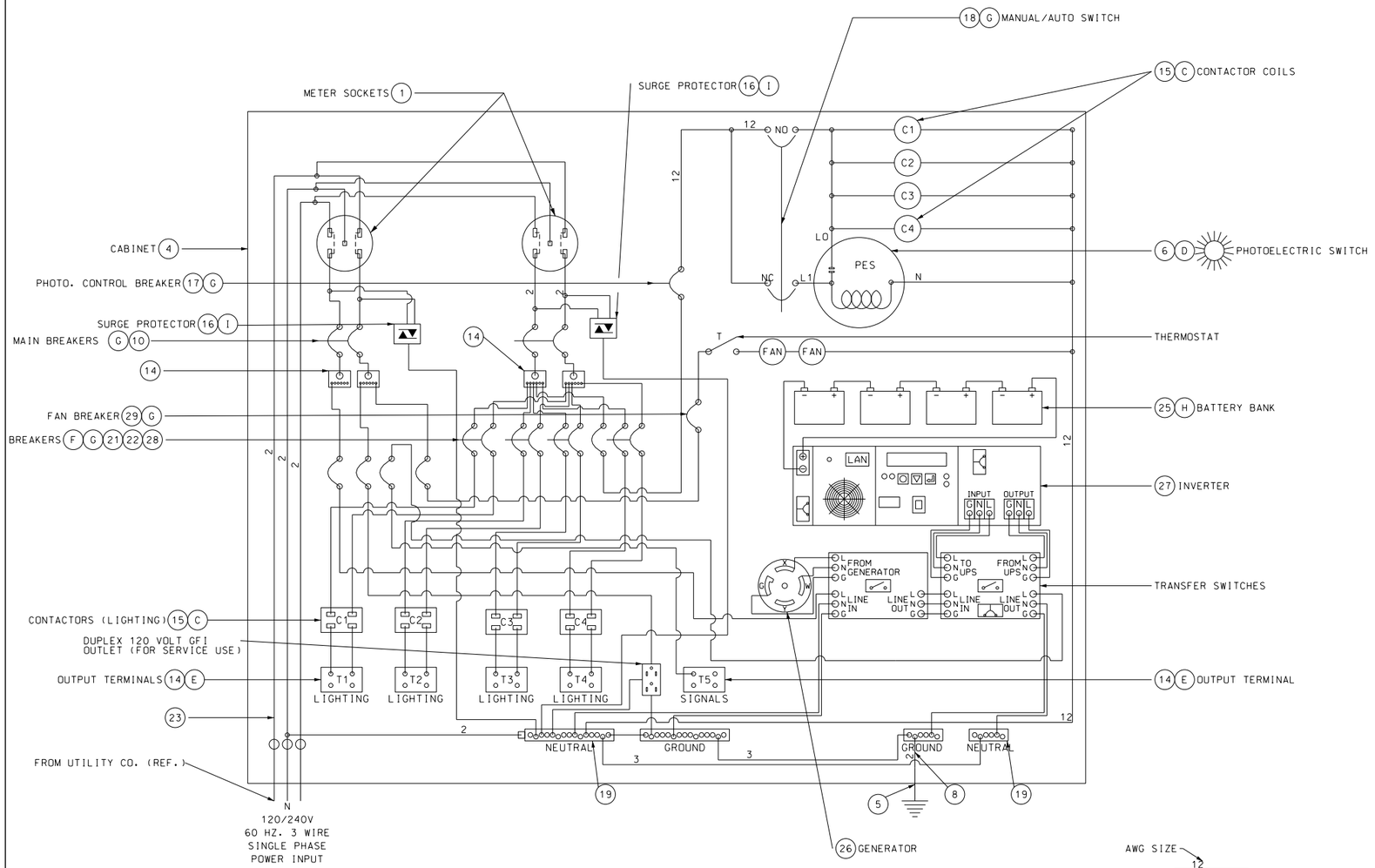
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WIRING DIAGRAM

LIST OF MATERIALS	
ITEM	DESCRIPTION
1	METER SOCKET, 200 AMP, WITH LEVER TEST BYPASS
2	RIGID STEEL CONDUIT, 2" MIN. TO UTILITY CO. FACILITIES
3	CLASS B CONCRETE, 1.3 cu. yd. (MIN.)
4	NEMA 3R, DUST-TIGHT, WATERTIGHT CABINET
5	GROUND ROD, 3/4" DIA. x 8' MIN. (MIN. 8' IN SOIL)
6	PHOTOELECTRIC SWITCH AND SOCKET, 105/285 V., 1000 WATT
7	2" MIN. SCH 40 PVC CONDUIT (REF.)
8	#2 AWG MIN., 600 V., GROUND CABLE
9	EXOTHERMIC WELD WIRE TO ROD
10	PLIABLE SEALANT
11	LIFETIME SILICONE CAULK
12	ANCHOR BOLTS, 5/8-11 x 18" LONG BOLTS, HOT DIP GALVANIZED, 4 REQUIRED
13	WEATHERPROOF ADHESIVE LABEL, VINYL RAISED LETTERING (OR EQUIVALENT, SEE DETAIL)
14	INSULATED TERMINAL BLOCK
15	2-POLE, 20 AMP, 120V COIL LIGHTING CONTACTOR
16	2-POLE, 650 VOLT LIGHTNING ARRESTER
17	1-POLE, 15 AMP, TYPE B BREAKER TO PHOTOELECTRIC SWITCH
18	MANUAL-AUTO SWITCH
19	INSULATED GROUNDABLE NEUTRAL, 100 AMP
20	2-POLE, TYPE A MAIN BREAKER
21	2-POLE, 15 AMP (MIN), TYPE A BREAKERS TO LIGHTING CIRCUITS ✳
22	1-POLE, 15 AMP (MIN.), TYPE A BREAKER TO SIGNALS ✳
23	#2 AWG MIN., 600 V., POWER CABLE ✳
24	6" PEDESTAL RISER
25	12V GEL CELL BATTERIES IN SERIES (4 MINIMUM)
26	30A GENERATOR MALE BASE
27	INVERTER (1100VA MINIMUM)
28	1-POLE, 40 AMP, TYPE B UPS BREAKER
29	1-POLE, 15 AMP, TYPE B FAN BREAKER
30	1 ½" CONDUIT OUT TO SIGNAL CABINET (CAT 5E AND CONTROL WIRING)
✳	SEE PLANS FOR SIZE

NOTES

(A) CABINET WITH POWER SUPPLY SHALL BE ALUMINUM OR STAINLESS STEEL. ALL HARDWARE, HINGES, CATCHES, ETC. SHALL BE STAINLESS STEEL. METER SOCKET AND OTHER EQUIPMENT AND MATERIALS SHALL BE U.L. APPROVED AND CONFORM TO THE REQUIREMENTS OF THE UTILITY COMPANY OR MUNICIPALITY PROVIDING POWER.

(B) IF SUBSURFACE CONDITIONS EXIST WHICH PROHIBIT THE PLACEMENT OF THE GROUND ROD IN A VERTICAL POSITION, THE ROD MAY BE DRIVEN AT AN OBLIQUE ANGLE NOT TO EXCEED 45 DEGREES FROM VERTICAL OR BURIED IN A TRENCH AT LEAST 30 INCHES DEEP. CONNECTION TO GROUND ROD SHALL BE CAD WELDED.

(C) LIGHTING SYSTEM VOLTAGE AS SPECIFIED ON PLANS (120 OR 240 VOLTS). IF LIGHTS ARE TO BE MOUNTED ON SIGNAL POSTS, VOLTAGE MUST BE 120 VOLTS. 240 VOLT LIGHTS ARE NOT TO BE MOUNTED ON OR WIRED THROUGH SIGNAL POSTS, CONDUIT, OR PULL BOXES.

(D) LOCATE PHOTOELECTRIC SWITCH AT CENTER OF WINDOW.

(E) IF FOR REASONS OF VOLTAGE DROP A WIRE SIZE IS SPECIFIED LARGER THAN #2 AWG, A LARGER TERMINAL BLOCK SHALL BE INSTALLED FOR THAT CIRCUIT.

(F) BREAKER SIZING:

SIZE (AMPS)	240V TOTAL CIRCUIT LOAD (WATTS)	120V TOTAL CIRCUIT LOAD (WATTS)
15	0-2800	0-1390
20	2850-3700	1400-1850
25	3750-4600	1860-2320
30	4650-5500	2330-2780
35	5550-6500	-
40	6550-7400	-

CIRCUIT LOAD INCLUDES LOAD DUE TO LINE LOSS, LAMP, AND BALLAST LOAD.

(G) ALL CIRCUIT BREAKERS SHALL CONFORM TO SECTION 901.4 OF THE STANDARD SPECIFICATIONS.

(H) TAPE BATTERY TEMPERATURE SENSOR TO THE SIDE OF EITHER BATTERY #2 OR BATTERY #3. SENSOR SHOULD BE TO THE MIDDLE OF THE BATTERY BANK.

(I) UTILITY COMPANY SHALL DECIDE IF LIGHTNING ARRESTORS ARE TO BE CONNECTED ON THE LINE SIDE OR THE LOAD SIDE OF THE METER. THE UTILITY COMPANY SHALL ALSO DETERMINE WHERE THE LIGHTNING ARRESTOR SHALL BE MOUNTED.

(J) INCLUDE ADDITIONAL CONDUITS AS NECESSARY FOR AUXILIARY CIRCUITS.

(K) SEE CABINET MANUFACTURER FOR MOUNTING BASE DIMENSIONS AND ANCHOR BOLT LOCATIONS.

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REVIEWED	DJK	01/2025

STATE OF MISSOURI
DENNIS J KOSCIELSKI
NUMBER PE-2005000712
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED 7/15/2025

ROUTE	STATE
231	MO
DISTRICT	SHEET NO.
SL	321

COUNTY: ST. LOUIS
JOB NO.: J6S3631
CONTRACT ID.:
PROJECT NO.:
BRIDGE NO.:

DESCRIPTION	DATE

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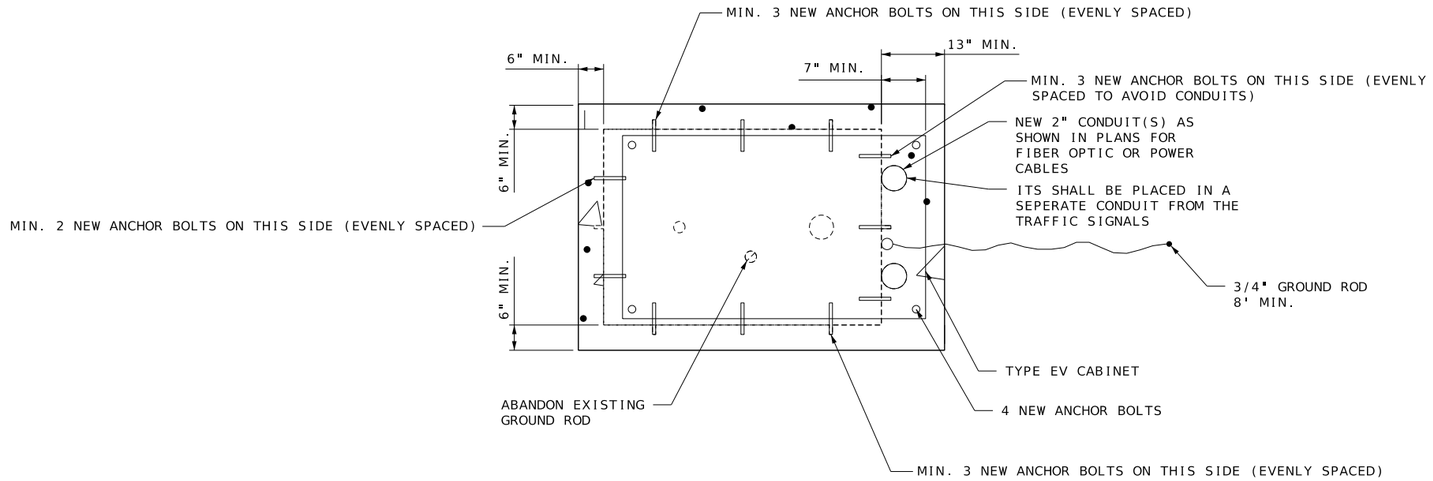
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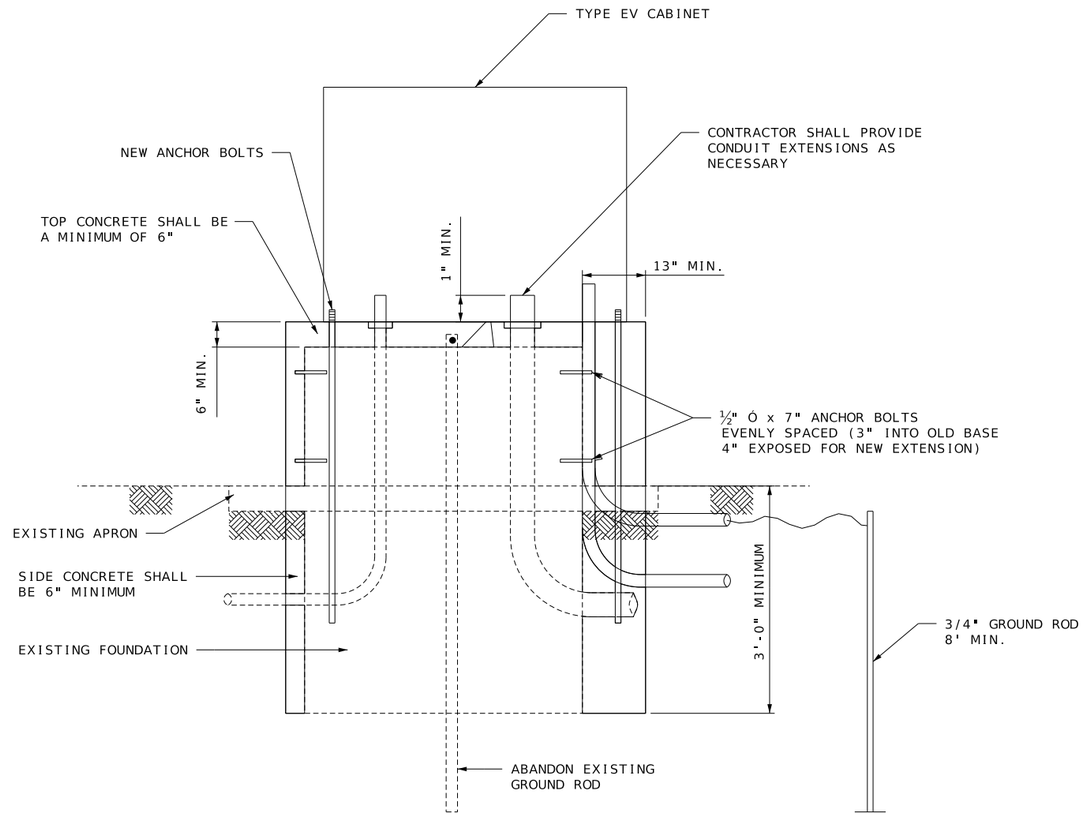
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SIGNAL SHEETS
SHEET 32 OF 43

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CABINET BASE WRAP

NOT TO SCALE

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NUMBER PE-2005000712
PROFESSIONAL ENGINEER

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DATE PREPARED: 7/15/2025

ROUTE	STATE
231	MO
DISTRICT	SHEET NO.
SL	322

COUNTY: ST. LOUIS

JOB NO.: J6S3631

CONTRACT ID.:

PROJECT NO.:

BRIDGE NO.:

DESCRIPTION	DATE

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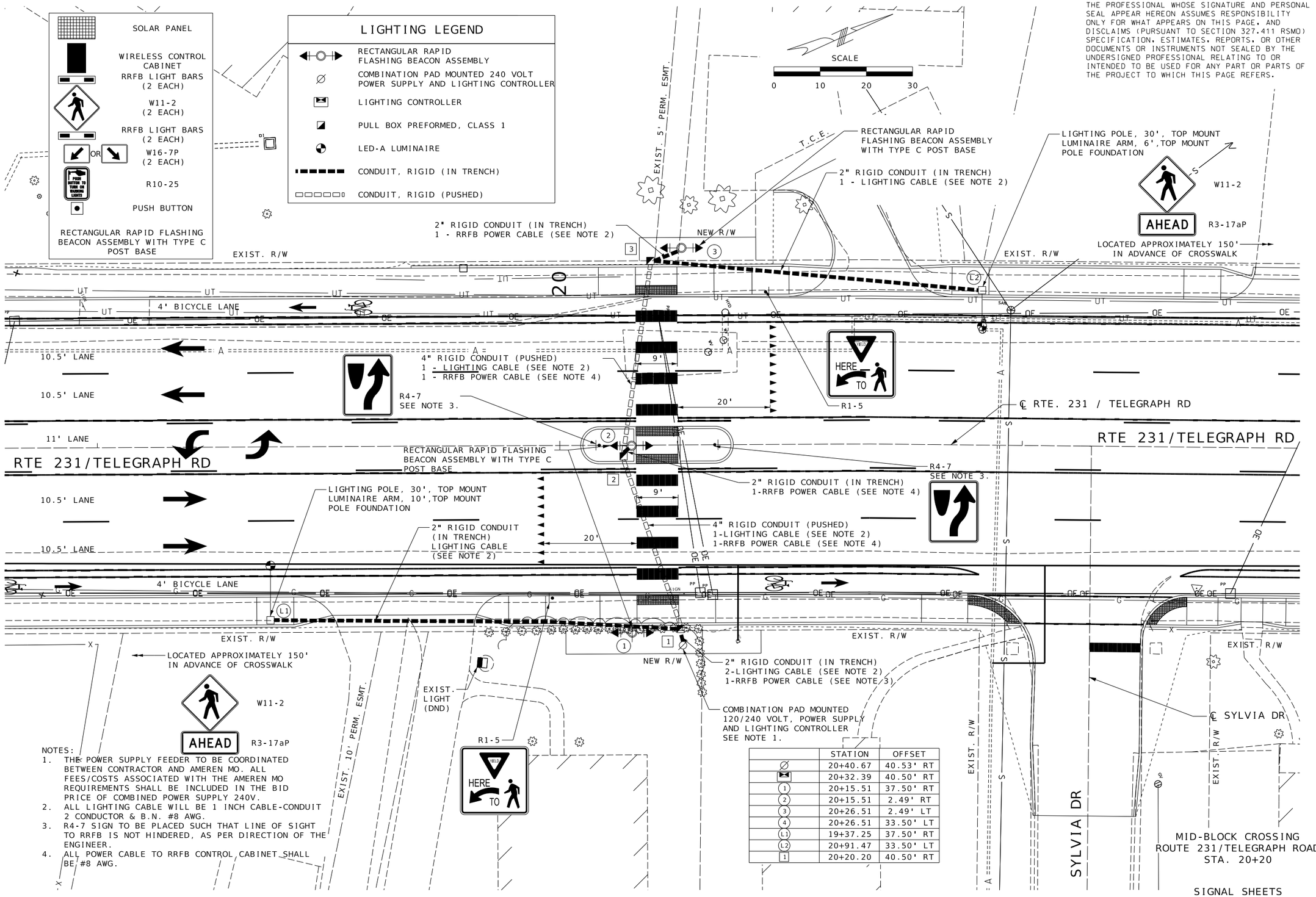
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SIGNAL CABINET BASE WRAP
SIGNAL SHEETS
SHEET 33 OF 43

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	STATION	OFFSET
∅	20+40.67	40.53' RT
▣	20+32.39	40.50' RT
(1)	20+15.51	37.50' RT
(2)	20+15.51	2.49' RT
(3)	20+26.51	2.49' LT
(4)	20+26.51	33.50' LT
(L1)	19+37.25	37.50' RT
(L2)	20+91.47	33.50' LT
[1]	20+20.20	40.50' RT

NOTES:
1. THE POWER SUPPLY FEEDER TO BE COORDINATED BETWEEN CONTRACTOR AND AMEREN MO. ALL FEES/COSTS ASSOCIATED WITH THE AMEREN MO REQUIREMENTS SHALL BE INCLUDED IN THE BID PRICE OF COMBINED POWER SUPPLY 240V.
2. ALL LIGHTING CABLE WILL BE 1 INCH CABLE-CONDUIT 2 CONDUCTOR & B.N. #8 AWG.
3. R4-7 SIGN TO BE PLACED SUCH THAT LINE OF SIGHT TO RRFB IS NOT HINDERED, AS PER DIRECTION OF THE ENGINEER.
4. ALL POWER CABLE TO RRFB CONTROL CABINET SHALL BE #8 AWG.

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REVIEWED	DJK	01/2025

STATE OF MISSOURI
DENNIS J KOSCIELSKI
NUMBER PE-2005000712
PROFESSIONAL ENGINEER

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ROUTE	STATE
231	MO
DISTRICT	SHEET NO.
SL	323

COUNTY: ST. LOUIS
JOB NO.: J6S3631
CONTRACT ID.:
PROJECT NO.:
BRIDGE NO.:

DESCRIPTION	DATE

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SIGNAL SHEETS
SHEET 34 OF 43

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℄ EARLSFIELD LN

EARLSFIELD LN

EXIST. R/W

NOTES:
1. THE POWER SUPPLY FEEDER TO BE COORDINATED BETWEEN CONTRACTOR AND AMEREN MO. ALL FEES/COSTS ASSOCIATED WITH THE AMEREN MO REQUIREMENTS SHALL BE INCLUDED IN THE BID PRICE OF POWER SUPPLY 120/240V.
2. ALL LIGHTING CABLE WILL BE 1 INCH CABLE-CONDUIT 2 CONDUCTOR & B.N. #8 AWG
3. R4-7 TO BE PLACED SUCH THAT LINE OF SIGHT TO RRFB IS NOT HINDERED, AS PER DIRECTION OF THE ENGINEER.
4. ALL RRFB POWER CABLE WILL BE 1 INCH CABLE-CONDUIT 2 CONDUCTOR & B.N. #8 AWG.

SCALE
0 10 20 30

EXIST. 10' PERM. MODOT DRAINAGE ESMT.
EXIST. 5' PERM. ESMT.
EXIST. 5' PERM. ESMT.
EXIST. 15' PERM. SEWER ESMT.
EXIST. 15' PERM. SEWER ESMT.

COMBINATION PAD MOUNTED, 120V, POWER SUPPLY WITH UPS AND 240V DUAL METER LIGHTING CONTROL.SEE NOTE 1.

2" RIGID CONDUIT (IN TRENCH) 2-LIGHITNG CABLE (SEE NOTE 2) 1 - RRFB POWER CABLE (SEE NOTE 4)

2" RIGID CONDUIT (IN TRENCH) 1 - LIGHTING CABLE (SEE NOTE 2)

R1-5

W11-2

AHEAD R3-17aP

LOCATED APPROXIMATELY 150' IN ADVANCE OF CROSSWALK

RECTANGULAR RAPID FLASHING BEACON ASSEMBLY WITH TYPE C POST BASE

LIGHTING POLE, 30', TOP MOUNT LUMINAIRE ARM,12, TOP MOUNT POLE FOUNDATION

4' BICYCLE LANE

10.5' LANE

9'

20'

4" RIGID CONDUIT (PUSHED) 1 - LIGHTING CABLE(SEE NOTE 2) 1 - RRFB POWER CABLE (SEE NOTE 4)

℄ RTE. 231 / KINGSTON DR

RECTANGULAR RAPID FLASHING BEACON ASSEMBLY WITH TYPE C POST BASE

R4-7 SEE NOTE 3.

11' LANE

RTE 231/KINGSTON DR

4" RIGID CONDUIT (PUSHED) 1 - LIGHTING CABLE (SEE NOTE 2)

R4-7 SEE NOTE 3.

RTE 231/KINGSTON DR

10.5' LANE

9'

20'

4" RIGID CONDUIT (IN TRENCH) 1 - RRFB POWER CABLE (SEE NOTE 4)

LIGHTING POLE, 30', TOP MOUNT LUMINAIRE ARM,6, TOP MOUNT POLE FOUNDATION

5' BICYCLE LANE

EXIST. R/W

LOCATED APPROXIMATELY 150' IN ADVANCE OF CROSSWALK

W11-2

AHEAD R3-17aP

EXIST. 20' PERM. MODOT DRAINAGE ESMT.

EXIST. 20' PERM. MODOT DRAINAGE ESMT.

EXIST. R/W

	STATION	OFFSET
∅	71+39.33	48.88' LT
	71+29.97	44.14' LT
1	71+18.69	24.50' RT
2	71+18.69	2.51' RT
3	71+29.69	2.51' LT
4	27+29.68	22.22' LT
L1	70+76.19	24.50' RT
L2	71+87.06	31.38' LT
1	71+23.88	37.98' LT

LIGHTING LEGEND

- RECTANGULAR RAPID FLASHING BEACON ASSEMBLY
- COMBINATION PAD MOUNTED 240 VOLT POWER SUPPLY AND LIGHTING CONTROLLER
- LIGHTING CONTROLLER
- PULL BOX PREFORMED CLASS 1
- LED-A LUMINAIRE
- CONDUIT, RIGID (IN TRENCH)
- CONDUIT, RIGID (PUSHED)

- SOLAR PANEL
- WIRELESS CONTROL CABINET
- RRFB LIGHT BARS (2 EACH)
- W11-2 (2 EACH)
- RRFB LIGHT BARS (2 EACH)
- W16-7P (2 EACH) OR
- R10-25
- PUSH BUTTON

RECTANGULAR RAPID FLASHING BEACON ASSEMBLY WITH TYPE C POST BASE

MID-BLOCK CROSSING
ROUTE 231/KINGSTON DRIVE
STA. 71+25

SIGNAL SHEETS
SHEET 35 OF 43

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STATE OF MISSOURI · DENNIS J KOSCIELSKI · NUMBER PE-2005000712 · PROFESSIONAL ENGINEER

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DATE PREPARED 7/15/2025

ROUTE	STATE
231	MO
DISTRICT	SHEET NO.
SL	324

COUNTY ST. LOUIS

JOB NO. J6S3631

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

DESCRIPTION	DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL
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LAYOUT	SMC	01/2025
DRAWN	DJK	01/2025
REVIEWED		

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	STATION	OFFSET
∅	89+65.12	42.96' LT
1	89+51.79	25.00' RT
2	89+51.89	0' CL
3	89+62.79	2.51' LT
4	89+62.79	23.50' LT
L1	89+09.29	32.50' RT
L2	90+05.29	31.27' LT
1	89+70.35	24.67' LT
2	89+67.67	0' CL

SCALE
0 10 20 30

FEED MY PEOPLE

EXIST. ESM'T.

℄ CLYDE AVE

R1-5

W11-2

AHEAD R3-17aP

EXIST. R/W

COMBINATION PAD MOUNTED, 120V POWER SUPPLY WITH UPS AND 240V DUAL METER LIGHTING CONTROLLER (SEE NOTE 1)

LOCATED APPROXIMATELY 150' IN ADVANCE OF CROSSWALK

4" RIGID CONDUIT (PUSHED)
2-LIGHTING CABLE (SEE NOTE 2)
1-RRFB CABLE (SEE NOTE 4)

4.5' BICYCLE LANE

10.5' LANE

R4-7
SEE NOTE 3.

2" RIGID CONDUIT (IN TRENCH)
RRFB CABLE (SEE NOTE 4)

20'

9'

4" RIGID CONDUIT (PUSHED)
LIGHTING CABLE (SEE NOTE 2)

LIGHTING POLE, 30', TOP MOUNT
LUMINAIRE ARM,12', TOP MOUNT
POLE FOUNDATION

℄ RTE. 231 / KINGSTON DR

11' LANE

RECTANGULAR RAPID FLASHING
BEACON ASSEMBLY WITH TYPE C
POST BASE

4" RIGID CONDUIT (PUSHED)
LIGHTING CABLE (SEE NOTE 2)
RRFB POWER CABLE (SEE NOTE 4)

RTE 231/KINGSTON DR

RTE 231/KINGSTON DR

20'

R4-7
SEE NOTE 3

4" RIGID CONDUIT
(PUSHED)
RRFB POWER CABLE
(SEE NOTE 4)

10.5' LANE

4" RIGID CONDUIT (PUSHED)
LIGHTING CABLE (SEE NOTE 2)

5' BICYCLE LANE

LIGHTING POLE, 30', TOP MOUNT
LUMINAIRE ARM,12', TOP MOUNT
POLE FOUNDATION

EXIST. R/W

T.C.E.

LOCATED APPROXIMATELY 150'
IN ADVANCE OF CROSSWALK

W11-2

AHEAD R3-17aP

WIRELESS CONTROL CABINET
RRFB LIGHT BARS (2 EACH)
W11-2 (2 EACH)
RRFB LIGHT BARS (2 EACH)
W16-7P (2 EACH)
R10-25
PUSH BUTTON

RECTANGULAR RAPID FLASHING BEACON ASSEMBLY WITH TYPE C POST BASE

R1-5
(SEE NOTE 3)

NOTE:
1. THE POWER SUPPLY FEEDER TO BE COORDINATED BETWEEN CONTRACTOR AND AMEREN MO. ALL FEES/COSTS ASSOCIATED WITH THE AMEREN MO REQUIREMENTS SHALL BE INCLUDED IN THE BID PRICE OF POWER SUPPLY 240V.
2. ALL LIGHTING CABLE WILL BE 1 INCH CABLE-CONDUIT 2 CONDUCTOR & B.N. #8 AWG
3. R4-7 SIGN TO BE PLACED SUCH THAT LINE OF SIGHT TO RRFB IS NOT HINDERED, AS PER DIRECTION OF THE ENGINEER.
4. ALL RRFB CABLE WILL BE 1 INCH CABLE-CONDUIT 2 CONDUCTOR & B.N. #8 AWG.

LIGHTING LEGEND

- RECTANGULAR RAPID FLASHING BEACON ASSEMBLY
- COMBINATION PAD MOUNTED 240 VOLT POWER SUPPLY AND LIGHTING CONTROLLER
- LIGHTING CONTROLLER
- PULL BOX PREFORMED CLASS 1
- LED-A LUMINAIRE
- CONDUIT, RIGID (IN TRENCH)
- CONDUIT, RIGID (PUSHED)

MID-BLOCK CROSSING
ROUTE 231/KINGSTON DRIVE
STA. 89+57

SIGNAL SHEETS
SHEET 36 OF 43

LAYOUT	NS	01/2025
DRAWN	SMC	01/2025
REVIEWED	DJK	01/2025

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7/15/2025

ROUTE	STATE
231	MO
DISTRICT	SHEET NO.
SL	325

COUNTY
ST. LOUIS

JOB NO.
J6S3631

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION	DATE

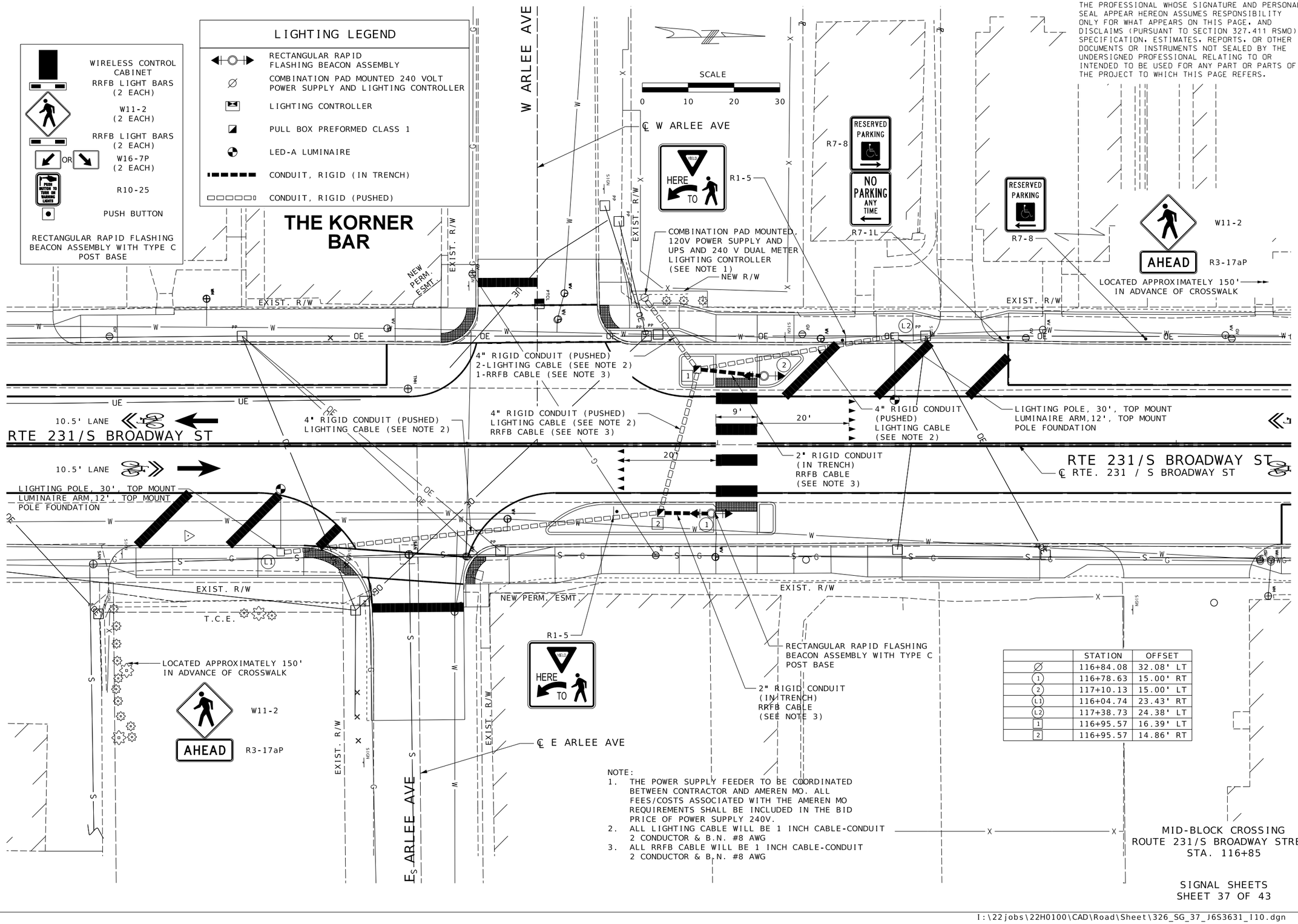
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ROUTE	STATE
231	MO
DISTRICT	SHEET NO.
SL	326

COUNTY ST. LOUIS
JOB NO. J6S3631
CONTRACT ID.
PROJECT NO.
BRIDGE NO.

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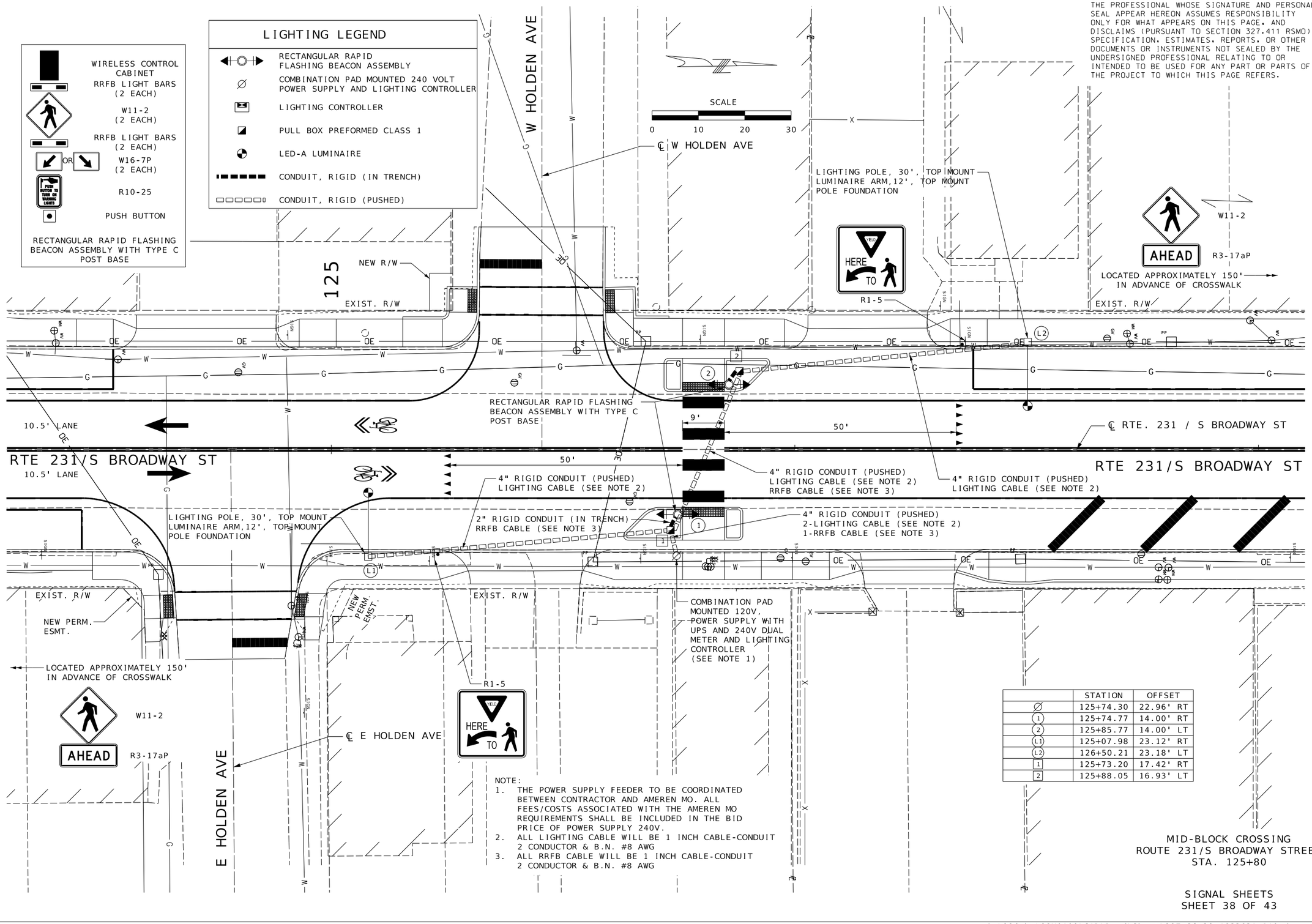
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	STATION	OFFSET
∅	125+74.30	22.96' RT
1	125+74.77	14.00' RT
2	125+85.77	14.00' LT
L1	125+07.98	23.12' RT
L2	126+50.21	23.18' LT
1	125+73.20	17.42' RT
2	125+88.05	16.93' LT

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SHEET 38 OF 43

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ROUTE	STATE
231	MO
DISTRICT	SHEET NO.
SL	327

COUNTY: ST. LOUIS
JOB NO.: J6S3631
CONTRACT ID.:
PROJECT NO.:
BRIDGE NO.:

DESCRIPTION	DATE

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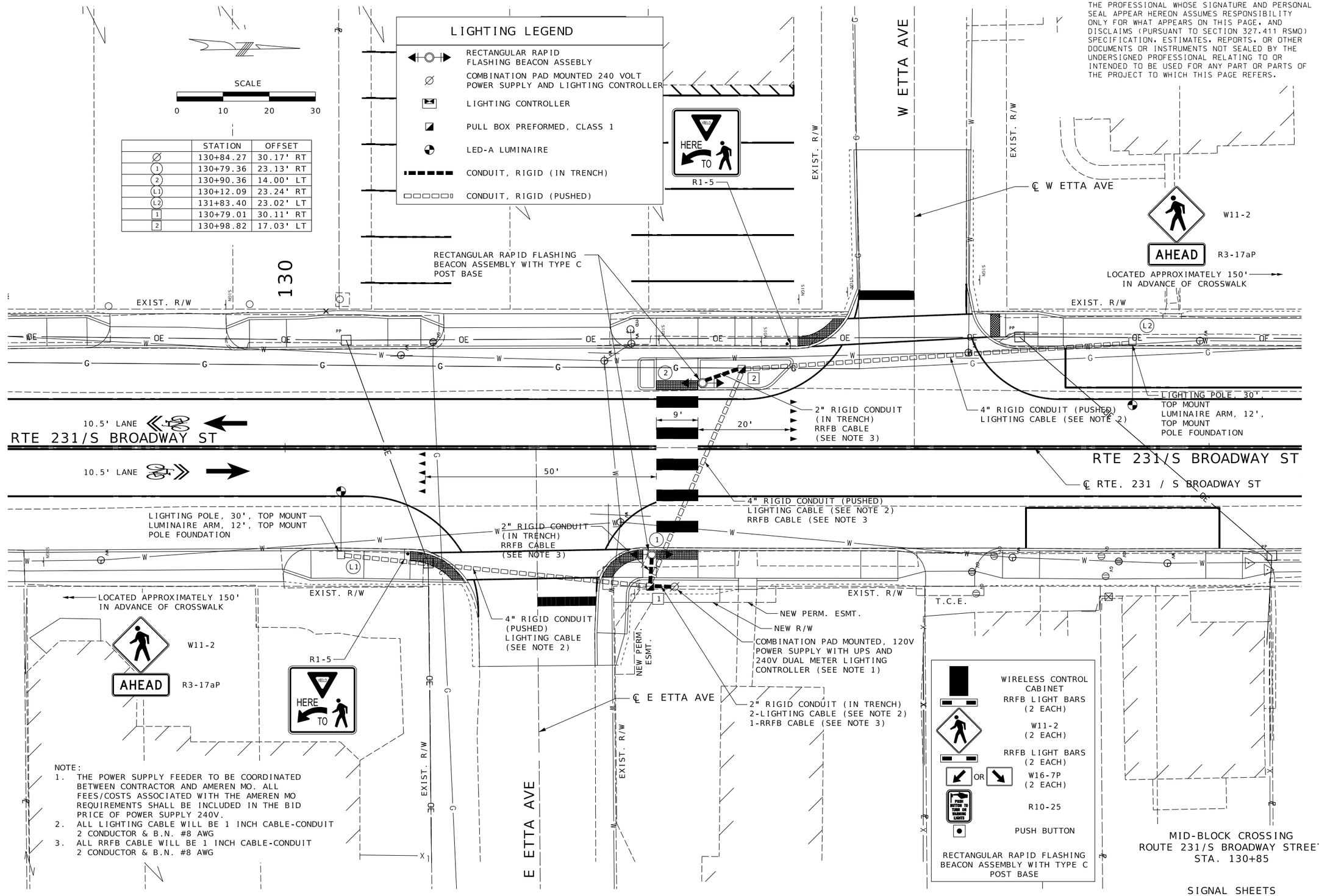
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NOTE:
1. THE POWER SUPPLY FEEDER TO BE COORDINATED BETWEEN CONTRACTOR AND AMEREN MO. ALL FEES/COSTS ASSOCIATED WITH THE AMEREN MO REQUIREMENTS SHALL BE INCLUDED IN THE BID PRICE OF POWER SUPPLY 240V.
2. ALL LIGHTING CABLE WILL BE 1 INCH CABLE-CONDUIT 2 CONDUCTOR & B.N. #8 AWG
3. ALL RRFB CABLE WILL BE 1 INCH CABLE-CONDUIT 2 CONDUCTOR & B.N. #8 AWG

LAYOUT	NS	01/2025
DRAWN	SMC	01/2025
REVIEWED	DJK	01/2025

SIGNAL SHEETS
SHEET 39 OF 43

STATE OF MISSOURI
DENNIS J KOSCIELSKI
NUMBER PE-2005000712
PROFESSIONAL ENGINEER

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ROUTE	STATE
231	MO
DISTRICT	SHEET NO.
SL	328

COUNTY ST. LOUIS
JOB NO. J6S3631
CONTRACT ID.
PROJECT NO.
BRIDGE NO.

DESCRIPTION
DATE

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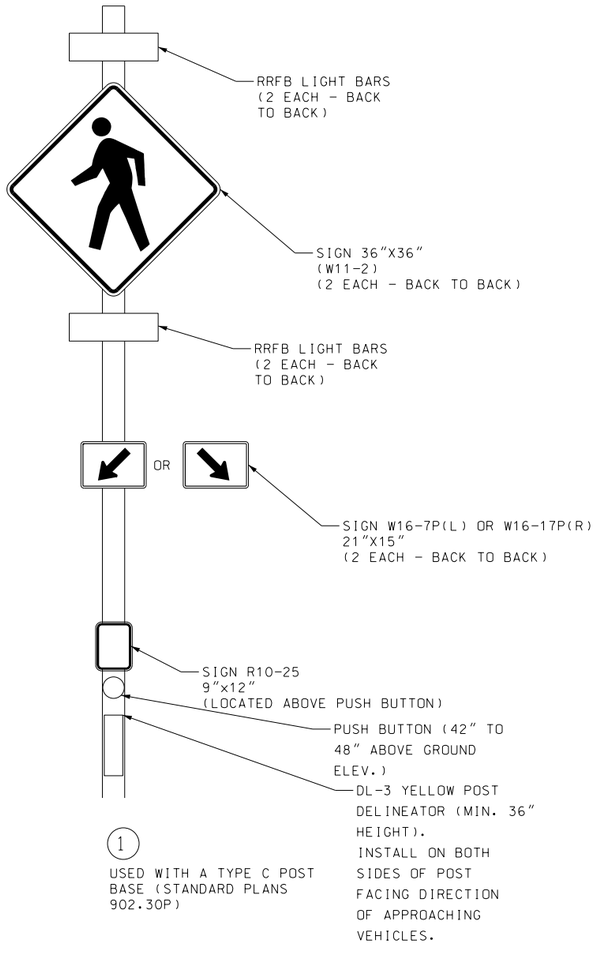
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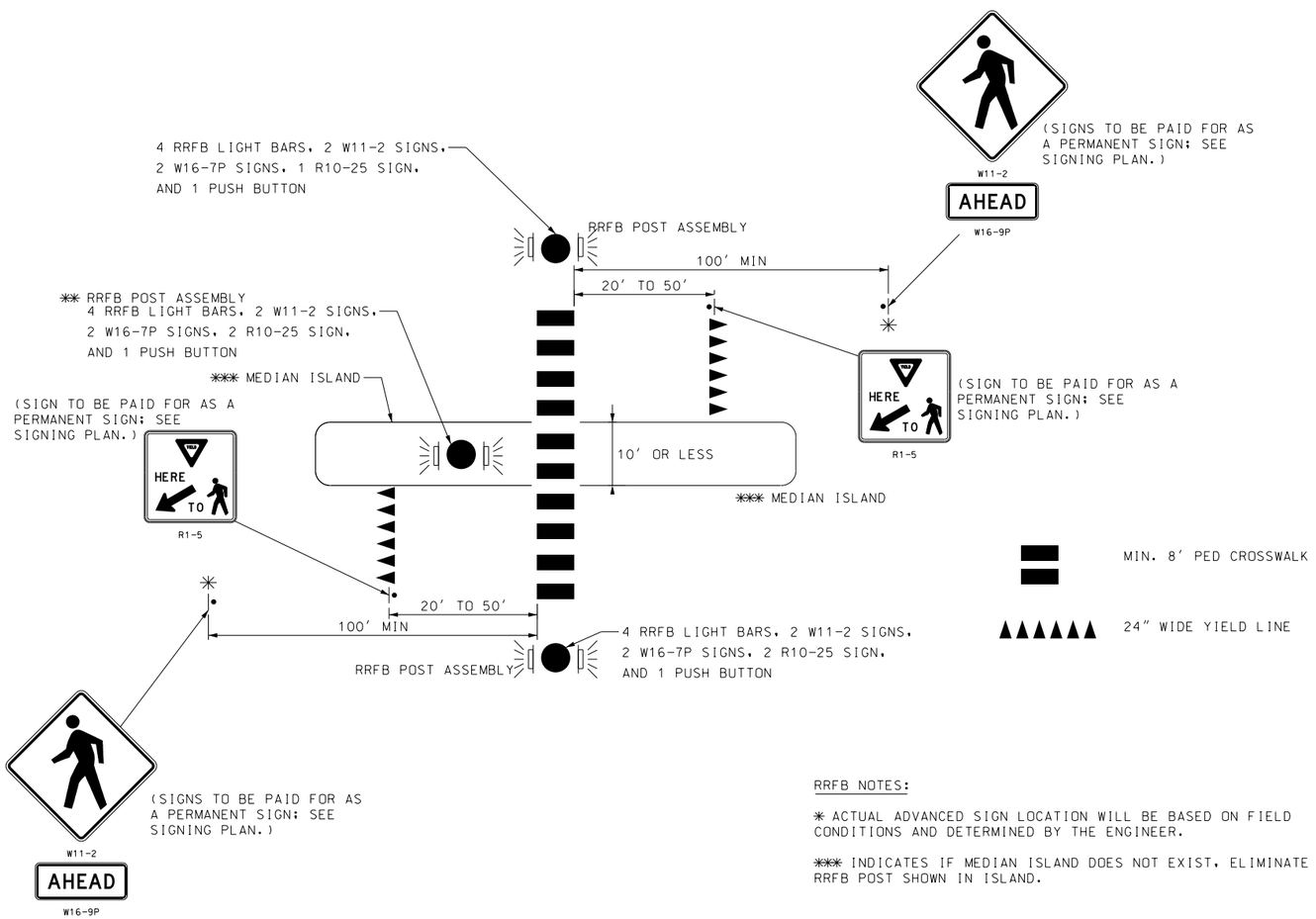
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1 USED WITH A TYPE C POST BASE (STANDARD PLANS 902.30P)



NOT TO SCALE

RRFB NOTES:

* ACTUAL ADVANCED SIGN LOCATION WILL BE BASED ON FIELD CONDITIONS AND DETERMINED BY THE ENGINEER.

*** INDICATES IF MEDIAN ISLAND DOES NOT EXIST, ELIMINATE RRFB POST SHOWN IN ISLAND.

CONSTRUCTION NOTES:

1. POLE AND FOUNDATION LOCATION SHALL BE BASED ON FIELD CONDITION AND LOCATION OF THE PEDESTRIAN ACCESSIBLE ROUTE. THE CONTRACTOR SHALL ENSURE THAT THE POLE LOCATION WILL ALLOW FULL ACCESS TO THE PUSH BUTTON PER LATEST ADA STANDARDS.
2. THE CONTRACTOR SHALL NOT INSTALL THE RRFB UNTIL MODOT'S TRAFFIC ENGINEER HAS REVIEW AND APPROVED THE CONTRACTOR'S FIELD LAYOUT.
3. W16-7P SIGN SHALL BE INSTALLED AT MINIMUM 7' VERTICAL CLEARANCE FROM SIDEWALK.
4. RRFB LIGHT BARS, W11-2 SIGN, AND W16-7P SHALL BE INSTALLED AT 3" VERTICAL CLEAR SPACE. ALL SIGNS AND LIGHT BARS TO BE AT UNIFORM VERTICAL HEIGHT FROM GROUND ON ALL RRFB INSTALLATIONS.

RECTANGULAR RAPID FLASHING BEACON (RRFB)
FOR USE WITH MEDIAN ISLAND HAVING WIDTH OF 10' OR LESS.

LAYOUT	NS	01/2025
DRAWN	SMC	01/2025
REVIEWED	DJK	01/2025

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DENNIS J KOSCIELSKI
NUMBER PE-2005000712
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DISTRICT SL | SHEET NO. 329
COUNTY ST. LOUIS
JOB NO. J6S3631
CONTRACT ID.
PROJECT NO.
BRIDGE NO.

DESCRIPTION | DATE

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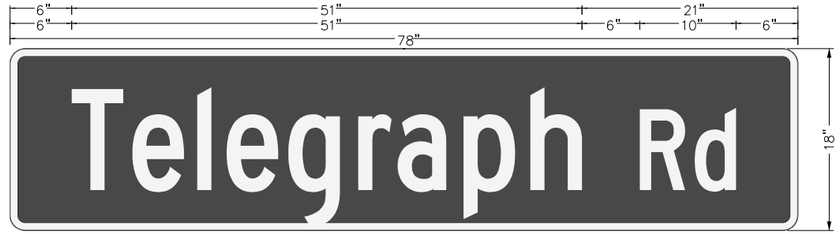
SIGN NO.	
STATION	39+79.10 LT
ROADWAY	RTE 231



1.5" RADIUS, 1.0" BORDER, WHITE ON, GREEN;
"Jefferson Barracks Rd", "Jeffersonian Dr", C

D3-1B
SIGN C-1

SIGN NO.	
STATION	40+13.37 RT & 40+45.97 LT
ROADWAY	RTE 231



1.5" RADIUS, 1.0" BORDER, WHITE ON, GREEN;
"Telegraph Rd", C

D3-1
SIGN C-2

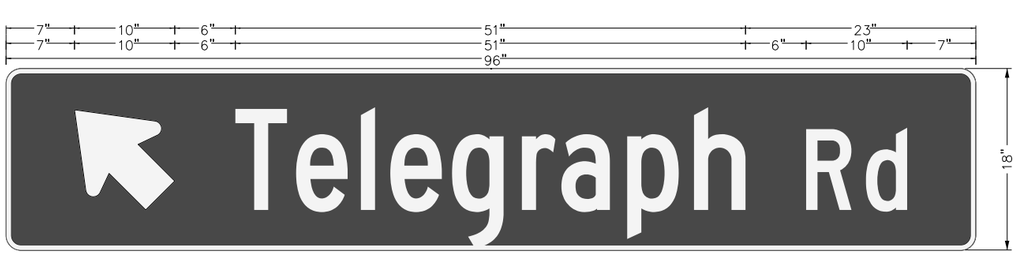
SIGN NO.	
STATION	40+85.42 RT
ROADWAY	RTE 231



1.5" RADIUS, 1.0" BORDER, WHITE ON, GREEN;
"Jeffersonian Dr", "Jefferson Barracks Rd", C

D3-1B
SIGN C-3

SIGN NO.	
STATION	47+48.72 LT
ROADWAY	RTE 231



1.5" RADIUS, 1.0" BORDER, WHITE ON, GREEN;
"Telegraph Rd", C

D3-1
SIGN C-4

SIGNAL SHEETS
SHEET 41 OF 43

D-31

LAYOUT	NS	01/2025
DRAWN	SMC	01/2025
REVIEWED	DJK	01/2025

STATE OF MISSOURI
DENNIS J KOSCIELSKI
NUMBER PE-2005000712
PROFESSIONAL ENGINEER

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7/15/2025

ROUTE	STATE
231	MO
DISTRICT	SHEET NO.
SL	330

COUNTY
ST. LOUIS

JOB NO.
J6S3631

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION	DATE

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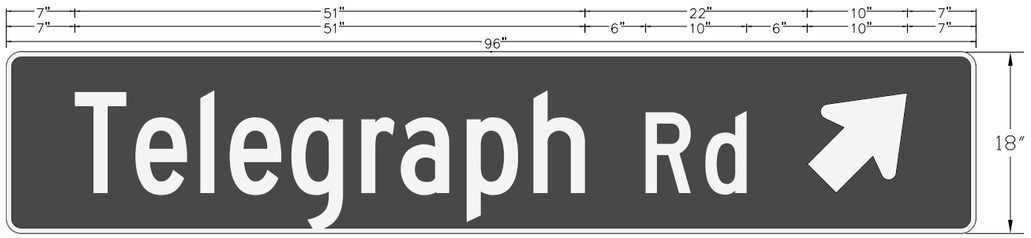
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SIGN NO.	
STATION	47+50.16 LT
ROADWAY	RTE 231



1.5" RADIUS, 1.0" BORDER, WHITE ON, GREEN;
"Telegraph Rd", C

D3-1
SIGN C-5

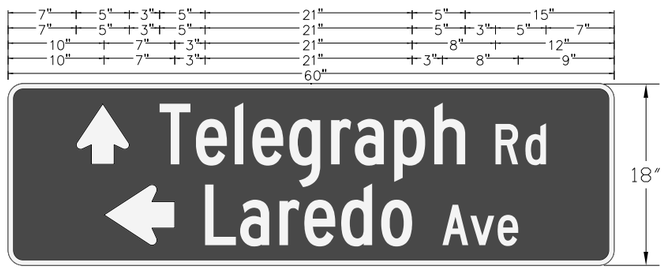
SIGN NO.	
STATION	47+51.16 RT
ROADWAY	RTE 231



1.5" RADIUS, 1.0" BORDER, WHITE ON, GREEN;
"Kingston Dr", "Laredo Ave", C

D3-1B
SIGN C-6

SIGN NO.	
STATION	47+73.90 LT
ROADWAY	RTE 231



1.5" RADIUS, 1.0" BORDER, WHITE ON, GREEN;
"Telegraph Rd", "Laredo Ave", C

D3-1B
SIGN C-7

LAYOUT	NS	01/2025
DRAWN	SMC	01/2025
REVIEWED	DJK	01/2025

STATE OF MISSOURI
DENNIS J KOSCIELSKI
NUMBER PE-2005000712
PROFESSIONAL ENGINEER

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ROUTE	STATE
231	MO
DISTRICT	SHEET NO.
SL	331

COUNTY
ST. LOUIS

JOB NO.
J6S3631

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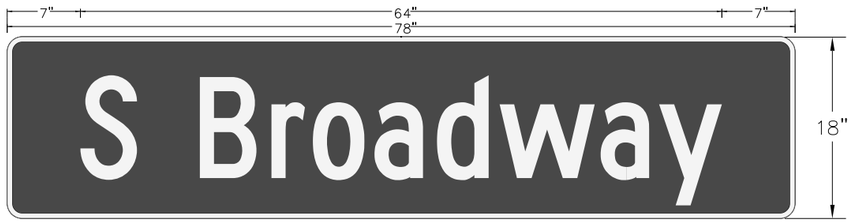
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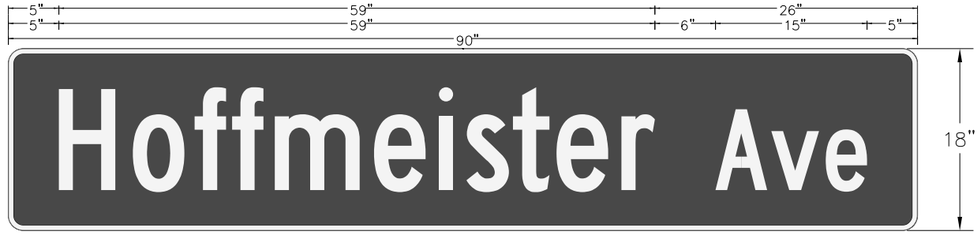
SIGN NO.	
STATION	107+90.88 RT 143+03.49 RT & 143+50.00 LT
ROADWAY	RTE 231



1.5" RADIUS, 1.0" BORDER, WHITE ON, GREEN;
"S Broadway", C

D3-1
SIGN C-9

SIGN NO.	
STATION	143+03.14 LT & 143+68.54 RT
ROADWAY	RTE 231



1.5" RADIUS, 1.0" BORDER, WHITE ON, GREEN;
"Hoffmeister Ave", C

D3-1
SIGN C-10

SIGNAL SHEETS
SHEET 43 OF 43

D-31

LAYOUT	NS	01/2025
DRAWN	SMC	01/2025
REVIEWED	DJK	01/2025

STATE OF MISSOURI
DENNIS J KOSCIELSKI
NUMBER PE-2005000712
PROFESSIONAL ENGINEER

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ROUTE	STATE
231	MO
DISTRICT	SHEET NO.
SL	332

COUNTY
ST. LOUIS

JOB NO.
J6S3631

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PROJECT NO.

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GENERAL NOTES

1. BASELINES SHOWN ON THE PLANS ARE FOR INFORMATION PURPOSES ONLY AND ARE NOT STAKED IN THE FIELD.

2. FOR SYSTEM COMMUNICATION REQUIREMENTS, SEE COMMUNICATION PLANS AND SPECIAL PROVISIONS.

3. ALL BRIDGE CONDUIT RUNS SHALL NOT EXCEED 270° OF BENDS. CONDUITS OR OTHER ENTERABLE FITTINGS SHALL BE INCLUDED IN COST OF CONDUIT.

4. CONTRACTOR SHALL MAINTRAIN 2' CONDUIT CLEARANCE FROM ALL LANDSCAPED FEATURES EXISTING WITHIN THE RIGHT OF WAY. ANY LANDSCAPING DISTURBED DURING CONSTRUCTION ACTIVITIES SHALL BE RESTORED TO ORIGINAL CONDITION AT THE EXPENSE OF THE CONTRACTOR.

5. CONTRACTOR SHALL COORDINATE THEIR ACTIVITIES WITH OTHER CONTRACTORS IN THE AREA.

6. THE MAINTAINING AGENCY IS THE MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION (MHTC).

7. ALL UTILITIES SHALL BE LOCATED AND MARKED PRIOR TO INITIATION OF CONSTRUCTION PER SITE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONTACTING UTILITIES AND LOCATOR SERVICES AND SCHEDULING THE LOCATION OF UNDERGROUND UTILITIES. THE CONTRACTOR SHALL ALSO CONTACT ANY AND ALL UTILITIES AND LOCAL GOVERNMENT AGENCIES NOT PARTICIPATING IN LOCATION SERVICES.

8. PROPOSED ITS EQUIPMENT LOCATIONS ARE APPROXIMATE AND MAY BE MODIFIED TO AVOID CONFLICTS WITH UNDERGROUND UTILITIES OR OTHER OBSTRUCTIONS. THE CONTRACTOR SHALL RECEIVE APPROVAL FROM THE ENGINEER PRIOR TO REVISING THE LOCATION OF ANY OF THE ITS EQUIPMENT.

9. LOCATION OF ITS EQUIPMENT ON THE PLANS BY THE ENGINEER HAS BEEN PERFORMED WITHOUT FULL CONSIDERATION OF EXISTING UNDERGROUND UTILTIES. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE ANY CONFLICTS WITH EXISTING UTILTIES AT SITES IN THE FIELD PRIOR TO INITIATION OF CONSTRUCTION PER SITE. THE CONTRACTOR IS RESPONSIBLE FOR CONTACTING THE ENGINEER UPON DETERMINATION OF ANY UTILITY CONFLICTS.

10. ALL ITS EQUIPMENT CALLED OUT BY PLANS AND SPECIFICATIONS AS "INSTALL" EQUIPMENT, INCLUDING DETECTOR ASSEMBLIES, CCTV ASSEMBLIES, ETHERNET SWITCHES, AND DMS ASSEMBLIES, SHALL INCLUDE ALL TRANSPORTATION, INSTALLATION AND TESTING OF MISSOURI DEPARTMENT OF TRANSPORTATION FURNISHED EQUIPMENT IN ACCORDANCE WITH THE SPECIFICATIONS.

11. ALL TRAFFIC CONTROL PLANS AND LANE CLOSURES SHALL BE PRE-APPROVED BY THE ENGINEER.

12. ALL WORK SHALL INCLUDE THE RESTORATION OF ANY DISTURBED AREAS AS DIRECTED BY THE ENGINEER. ALL GRADING WORK SHALL PROVIDE POSITIVE DRAINAGE.

13. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO REPAIR ANY EXISTING CONDUIT, CONDUCTORS OR OTHER FACILITIES DAMAGED DURING CONSTRUCTION. ALL EXISTING IMPROVEMENTS NOT SPECIFICALLY IDENTIFIED AS BEING REMOVED OR RELOCATED IN THE PLANS THAT ARE DISTURBED OR OTHERWISE DAMAGED BY THE CONTRACTOR SHALL BE REPLACED IN KIND BY THE CONTRACTOR, WITH NO ADDITIONAL COMPENSATION.

14. THE PLANS DEPICT CONDUIT ROUTING IN SCHEMATIC FORM ONLY. THE CONTRACTOR SHALL DETERMINE FINAL ROUTING BASED ON ACTUAL FIELD CONDITIONS PRIOR TO CONSTRUCTION AT EACH SITE, INCLUDING UTILITY LOCATOR SERVICE MARKINGS, TO PREVENT CONFLICTS WITH EXISTING UTILITIES.

15. ALL CONDUITS SHALL BE NEW. SINGLE CELL CONDUITS ON BRIDGES SHALL BE RIGID GALVANIZED STEEL.

16. PULL ROPES ARE REQUIRED IN ALL EMPTY CONDUIT CELLS. PULL ROPES SHALL BE POLYPROPYLENE WITH A MINIMUM TENSILE STRENGTH OF 600 POUNDS.

17. THE CONTRACTOR SHALL FIELD REVIEW NECESSARY ROUTING, MOUNTING HARDWARE, INCLUDING BRIDGE HANGERS, FITTINGS, EXPANSION JOINTS AND JUNCTION BOXES FOR ALL EXTERNALLY MOUNTED CONDUITS PRIOR TO SUBMITTAL OF BID TO DETERMINE THE TYPES AND EXTENT OF INCIDENTAL ITEMS TO BE INCLUDED IN THE UNIT PRICE OF CONDUIT.

18. THE CONTRACTOR SHALL FIELD REVIEW NECESSARY ROUTING OF CONDUIT AND LOCATION OF PULL BOXES PRIOR TO SUBMITTAL OF BID TO DETERMINE THE TYPES AND EXTENT OF INCIDENTAL REMOVE, RELOCATION, AND REPLACEMENT ITEMS TO BE INCLUDED IN THE UNIT PRICE OF CONDUIT AND PULL BOXES.

19. WARNING TAPE IS REQUIRED IN ALL TRENCHES CONTAINING CONDUIT.

20. JACKETED 0.10" THIN SOLID BLUE LOCATOR WIRE SHALL BE PLACED IN ALL UNDERGROUND NON-METALLIC CONDUITS BONDED TO GROUNDING RODS WITHIN A PULL BOX. APPROVED LOCATOR WIRE SHALL BE MOUNTED TO THE SIDE WALL OF EACH PULL BOX.

21. CONTRACTOR MAY BORE OR HORIZONTALLY DRILL WHEREVER TRENCHING IS SHOWN AT THE CONTRACTOR'S EXPENSE.

22. GROUND CONDUCTOR SHALL BE 1/C #6 UNLESS OTHERWISE NOTED ON THE PLANS.

23. EXPANSION FITTING SHALL BE PROVIDED WHEN CONDUIT PASSES ACROSS EXISTING EXPANSION DEVICES AND FILLED JOINTS ON BRIDGES INCLUDING FILLED JOINTS IN SAFETY BARRIER CURBS. THE DISTANCE BETWEEN EXPANSION FITTINS ON CONDUIT SHALL PROVIDE A MINIMUM MOVEMENT IN EITHER DIRECTION OF 4' AT OPEN JOINTS, BETWEEN ABUTMENT AND SUPER-STRUCTURES ENCOUNTERED AFTER RISING OUT OF THE GROUND AND 2" AT FILLED JOINTS. EXPANSION FITTINGS SHALL BE PROVIDED WITH A 2' BONDING JUMPER AROUND FITTING. BONDING JUMPER SHALL BE COMPATIBLE WITH CONDUIT MATERIAL. LIQUID TIGHT FLEXIBLE METAL CONDUIT SHALL BE USED IN LOCATIONS WHERE CONDUIT CROSSES OVER BRIDGE SUPERSTRUCTURE, SUBSTRUCTURE OR SIGN STRUCTURES, OR AS OTHERWISE SHOWN IN THE PLANS.

24. THE GALVINIZED CONE EXPANSION ANCHOR SYSTEM SHALL BE USED FOR ATTACHING CONDUIT SUPPORTS AND JUNCTION BOXES TO STRUCTURAL CONCRETE.

25. ALL GROUNDING SYSTEMS SHALL BE IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE.

26. SLACK FIBER OPTIC CABLE SHALL BE STORED ACCORDING TO THE SPECIAL PROVISIONS. 20 FEET OF SLACK FIBER OPTIC CABLE SHALL BE STORED IN EVERY PULL BOX. FOR EACH FIBER OPTIC CABLE THAT ENTERS A PULL BOX ADJACENT TO A CABINET, 60-FEET OF SLACK CABLE SHALL BE STORED.

27. THE LOG MILE SYSTEM USED FOR THE NAMING CONVENTION OF THE DEVICES REFLECTS THE WEST TO EAST AND NORTH TO SOUTH CONTINUOUS LOG CONVENTION USED FOR THE INTERSTATE SYSTEM, BEGINNING WITH 0 AT THE WEST AND SOUTH ENDS OF A ROUTE.

28. THE CONTRACTOR SHALL MAINTAIN POWER AND COMMUNICATIONS TO EXISTING ITS DEVICES. THE ONLY EXCEPTION SHALL BE WHEN THE CONTRACTOR IS REPLACING A DMS, MODIFYING ELECTRICAL CIRCUITS, OR MODIFYING FIBER OPTIC NETWORK CONNECTIONS. NOTIFY THE ENGINEER AT LEAST 7 DAYS BEFORE EXISTING DMS ARE TAKEN OUT OF SERVICE.

29. TRENCH EXCAVATION AND DIRECTIONAL DRILLING REQUIRED FOR THE INSTALLATION OF CONDUITS SHALL INCLUDE THE RESTORATION OF THE AREA IN ACCORDANCE WITH THE SPECIFICATIONS. THE RESTORATION SHALL INCLUDE FENCE REMOVAL AND REPLACEMENT, SIGN RELOCATION, UNDERDRAINS, AND RIPRAP OR OTHER EXISTING SLOPE PROTECTION APPURTENANCE.

30. TREE AND SHRUBS DAMAGED BY THE CONTRACTOR SHALL BE REPLACED IN KIND AT THE CONTRACTOR'S EXPENSE, AS DIRECTED BY THE ENGINEER.

31. ALL ELECTRICAL CABLES IN PULL BOXES AND EQUIPMENT CABINETS SHALL BE PROVIDED WITH INDIVIDUAL BRASS TAGS, DIE STAMPED WITH PHASE AND CIRCUIT IDENTIFICATIONS.

ITS
GENERAL NOTES
SHEET 1 OF 17

STATE OF MISSOURI
MARGARET ANN BRUNS
NUMBER PE-2010000798
PROFESSIONAL ENGINEER

6/16/2025 8:45:44 AM
Margaret Ann Bruns - Civil
MO PE-2010000798

DATE PREPARED
6/16/2025

ROUTE	STATE
231	MO
DISTRICT	SHEET NO.
SL	333

COUNTY
ST LOUIS

JOB NO.
J6S3631

CONTRACT ID.
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PROJECT NO.
.

BRIDGE NO.
.

DESCRIPTION	DATE
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IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

EFK•Moen
Civil Engineering Design
13523 Barrett Parkway Dr
Suite 250
St. Louis, MO 63021
Phone 314-394-3100
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STATE OF MISSOURI
MARGARET ANN BRUNS
NUMBER PE-2010000798
PROFESSIONAL ENGINEER
7/16/2025 6:30:14 PM
Margaret Ann Bruns - Civil
MO PE-2010000798

DATE PREPARED
7/16/2025

ROUTE	STATE
231	MO
DISTRICT	SHEET NO.
SL	334

COUNTY
ST LOUIS

JOB NO.
J6S3631

CONTRACT ID.
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PROJECT NO.
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BRIDGE NO.
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Suite 250
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Phone 314-394-3100
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Missouri Certificate of Authority: 001578

SAPPINGTON BARRACKS RD
SHERIDAN RD
SYLVAN DR
WILLETTE TERRACE
FRANRU LN
SYLVANWOOD TERRACE
BRILLIANT LANE

5 10 15 20 25 30

℄ RTE 231

EX R/W
EX CCTV (UIP)
EX RADIO (R)
EX CONDUIT (UIP)
2" CONDUIT, HDPE, DRILLED WITH 24 SM MODOT FO
INSERT 2" CONDUIT INTO EXISTING ITS PULL BOX (PULLBOX INSTALLED BY J6S3632)
EX CONDUIT (UIP) TERMINATE 24 SM MODOT FO INTO CONTROLLER CABINET
EX SIGNAL CONTROLLER CABINET (UIP)
EX ITS PULLBOX (UIP)
INSTALL ITS CL 2 PB ITS 01 +91.9 42.4' RT
INSTALL ITS CL 2 PB ITS 03 +50.1 35.4' LT
INSTALL ITS CL 2 PB ITS 02 +28.5 35.3' RT
TCE

MATCHLINE STA 18+50
THIS SHEET

MATCHLINE STA 32+00

SCALE
0 50 100 150

ITS
PLANS
SHEET 2 OF 17

O:\2021R2\MoDOT_ORD_v10.10.01.03\23008 Hanson - Route 231 J6S3631 Phase I\DGN\Roadway\Final\Plotsheets\ITS Sheets\334_ITS_02_J6S3631_i50.dgn 6:25:31 PM 7/16/2025

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NEW SIGNAL CABINET (SEE SIGNAL SHEETS)

INSTALL ITS CL 5 PB ITS 04 +81.3 58.2' LT

2" CONDUIT, HDPE, DRILLED WITH 24 SM MODOT FO

2" CONDUIT, HDPE, DRILLED WITH 2-24 SM MODOT FO CABLES

MATCHLINE STA 32+00

MATCHLINE STA 45+50 THIS SHEET

℄ RTE 231

JEFFERSONIAN DR

JEFFERSON BARRACKS RD

BETTY JEAN LN

TELEGRAPH RD

SIGSBEE AVE

ATLAS DR

GENEVA DR

SHETLAND DR

LAREDO AVE

EX R/W

PE

TCE

MATCHLINE STA 45+50 THIS SHEET

MATCHLINE STA 59+00

2" CONDUIT, HDPE, DRILLED WITH 24 SM MODOT FO

INSTALL ITS CL 2 PB ITS 06 +69.1 40.4' LT

2" CONDUIT, HDPE, DRILLED WITH 24 SM MODOT FO
CONCRETE WRAP BASE & SHIFT SIGNAL CABINET TO INSTALL 2-2" ITS CONDUIT.

FURNISH & INSTALL CCTV WITH ASSEMBLY

INSTALL ITS CL 5 PB ITS 05 +30.0 44.6' LT

EX CCTV & ASSEMBLY (R)
EX RADIO (R)

NOTE: SEE SIGNAL PLANS FOR THE WIRING DIAGRAM FOR THE CAMERA CABLE & DETAIL FOR SIGNAL CABINET BASE WRAP AND CABINET SHIFT.

SCALE
0 50 100 150

ITS
PLANS
SHEET 3 OF 17

STATE OF MISSOURI
MARGARET ANN BRUNS
NUMBER PE-2010000798
PROFESSIONAL ENGINEER
7/16/2025 5:29:54 PM
Margaret Ann Bruns - Civil
MO PE-2010000798

DATE PREPARED
7/16/2025

ROUTE	STATE
231	MO
DISTRICT	SHEET NO.
SL	335

COUNTY
ST LOUIS

JOB NO.
J6S3631

CONTRACT ID.
.

PROJECT NO.
.

BRIDGE NO.
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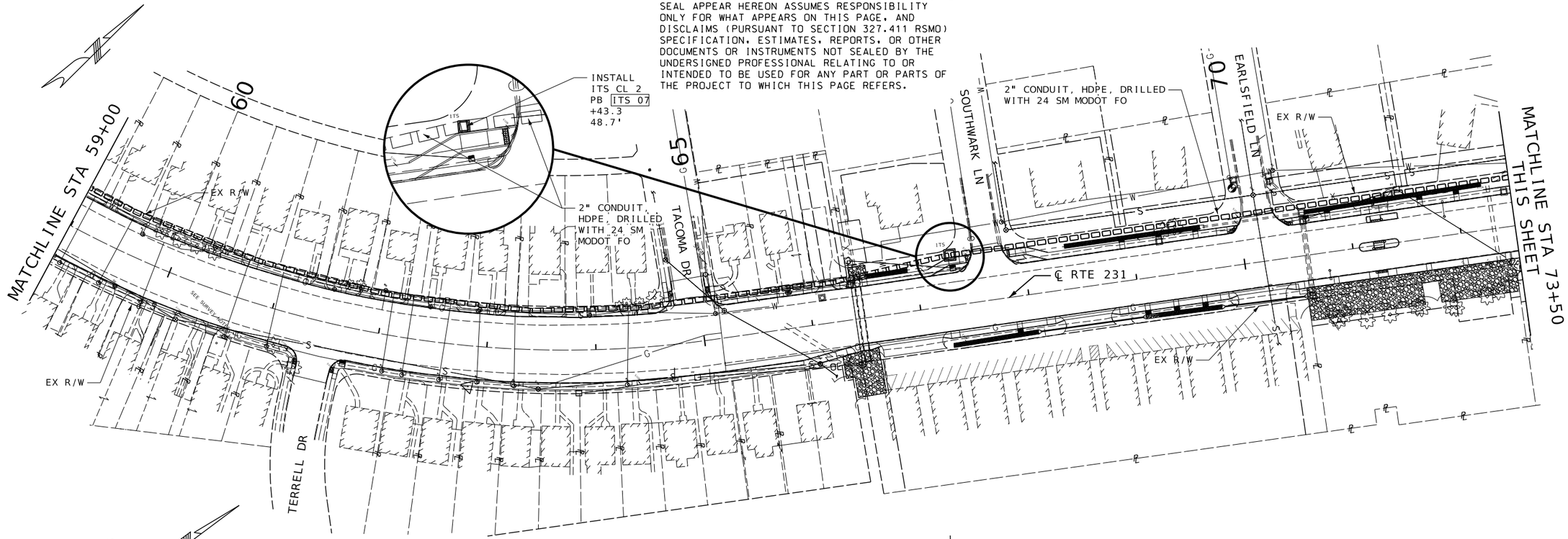
DATE	DESCRIPTION
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MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

EFK•Moen
Civil Engineering Design
13523 Barrett Parkway Dr
Suite 250
St Louis, MO 63021
Phone 314-394-3100
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SCALE
0 50 100 150

ITS
PLANS
SHEET 4 OF 17

STATE OF MISSOURI
PROFESSIONAL ENGINEER
MARGARET ANN BRUNS
NUMBER PE-2010000798
7/16/2025 6:29:34 PM
Margaret Ann Bruns - Civil
MO PE-2010000798

DATE PREPARED
7/16/2025

ROUTE	STATE
231	MO
DISTRICT	SHEET NO.
SL	336

COUNTY
ST LOUIS

JOB NO.
J6S3631

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION	DATE

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MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
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Civil Engineering Design
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St. Louis, MO 63021
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Fax 314-394-3199
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MATCHLINE STA 85+00

CARRINGTON LN

90

CLYDE AVE

95

MATCHLINE STA 99+50
THIS SHEET

2" CONDUIT, HDPE, DRILLED WITH 24 SM MODOT FO

EX R/W

PE

TCE

℄ RTE 231

INSTALL
ITS CL 2
PB ITS 10
+54.1
35.5' LT

INSTALL
ITS CL 2
PB ITS 11
+58.4
39.6' RT

WINDING AVE
(ABANDONED INPLACE)

EX CCTV (R)
INSTALL CCTV & ASSEMBLY
EX RADIO (R)

NEW R/W

INSTALL
ITS CL 2
PB ITS 13
+76.7
25.9' LT

100

101

NOTE: SEE SIGNAL PLANS FOR THE WIRING DIAGRAM FOR THE CAMERA CABLE & DETAIL FOR THE SIGNAL CABINET BASE WRAP AND CABINET SHIFT.

CONCRETE WRAP BASE & SHIFT SIGNAL CABINET
TO INSTALL 2-2" ITS CONDUIT

2" CONDUIT, HDPE, DRILLED
WITH 2-24 SM MODOT FO CABLES
INTO EX. SIGNAL CABINET

INSTALL
ITS CL 5
PB ITS 12
+45.3
27.9' RT

MATCHLINE STA 99+50
THIS SHEET

S BROADWAY ST

110

RIPA AVE

MATCHLINE STA 113+00

NEW R/W

SIGN

SCALE
0 50 100 150

ITS
PLANS
SHEET 5 OF 17

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STATE OF MISSOURI
MARGARET ANN BRUNS
NUMBER PE-2010000798
PROFESSIONAL ENGINEER
7/16/2025 6:28:35 PM
Margaret Ann Bruns - Civil
MO PE-2010000798

DATE PREPARED
7/16/2025

ROUTE	STATE
231	MO
DISTRICT	SHEET NO.
SL	337

COUNTY
ST LOUIS

JOB NO.
J6S3631

CONTRACT ID.
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PROJECT NO.
.

BRIDGE NO.
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DATE	DESCRIPTION
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MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

EFK•Moen
Civil Engineering Design
13523 Barrett Parkway Dr
Suite 250
St. Louis, MO 63021
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MATCHLINE STA 113+00
THIS SHEET

MATCHLINE STA 126+50
THIS SHEET

MATCHLINE STA 126+50
THIS SHEET

MATCHLINE STA 140+00

VIEHL AVE
EX R/W
PE
W ARLEE AVE
NEW R/W
TCE
W FELTON AVE
W LORETTA AVE
15' ALLEY
W HOLDEN AVE
2" CONDUIT, HDPE, DRILLED WITH 24 SM MODOT FO
UE
℄ RTE 231
CLEAN OUT
PE
BLOCK COLUMN
INSTALL ITS CL 2 PB ITS 14 +83.0 27.9' LT
E ARLEE AVE
FELTON AVE
LORETTA AVE
HOLDEN AVE
115
120
125
130
135
W CARTWRIGHT AVE
VINCENT AVE
W VELMA AVE
W ETTA AVE
E ETTA AVE
E VELMA AVE
E CARTWRIGHT AVE
INSTALL ITS CL 2 PB ITS 15 +49.2' 29.1' LT
INSTALL ITS CL 2 PB ITS 16 +31.0 25.7' RT

SCALE
0 50 100 150

STATE OF MISSOURI
PROFESSIONAL ENGINEER
MARGARET ANN BRUNS
NUMBER PE-2010000798
7/16/2025 5:29:14 PM
Margaret Ann Bruns - Civil
MO PE-2010000798

DATE PREPARED
7/16/2025

ROUTE	STATE
231	MO
DISTRICT	SHEET NO.
SL	338

COUNTY
ST LOUIS

JOB NO.
J6S3631

CONTRACT ID.
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PROJECT NO.
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BRIDGE NO.
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DATE	DESCRIPTION
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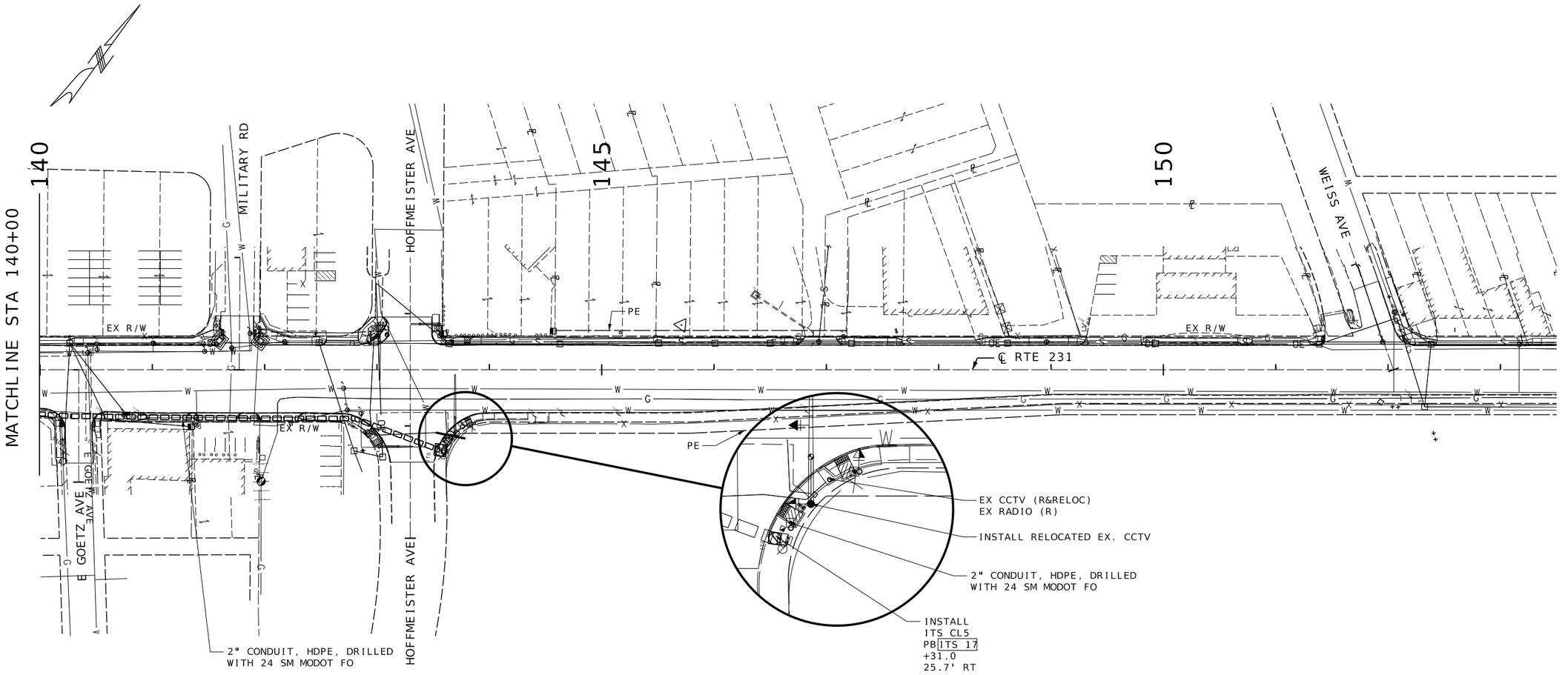
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MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

EFK·Moen
Civil Engineering Design
13523 Barrett Parkway Dr
Suite 250
St Louis, MO 63021
Phone 314-394-3100
Fax 314-394-3199
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ITS
PLANS
SHEET 6 OF 17

O:\2021R2\MoDOT_ORD_v10.10.01.03\23008 Hanson - Route 231 J6S3631 Phase I\DGN\Roadway\Final\Plotsheets\ITS Sheets\338_ITS_06_J6S3631_i50.dgn 6:26:27 PM 7/16/2025



SCALE
0 50 100 150

ITS
PLANS
SHEET 7 OF 17

STATE OF MISSOURI
PROFESSIONAL ENGINEER
MARGARET ANN BRUNS
NUMBER PE-2010000798

7/16/2025 6:28:57 PM
Margaret Ann Bruns - Civil
MO PE-2010000798

DATE PREPARED
7/16/2025

ROUTE	STATE
231	MO
DISTRICT	SHEET NO.
SL	339

COUNTY
ST LOUIS

JOB NO.
J6S3631

CONTRACT ID.
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PROJECT NO.
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BRIDGE NO.
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DESCRIPTION	DATE
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IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

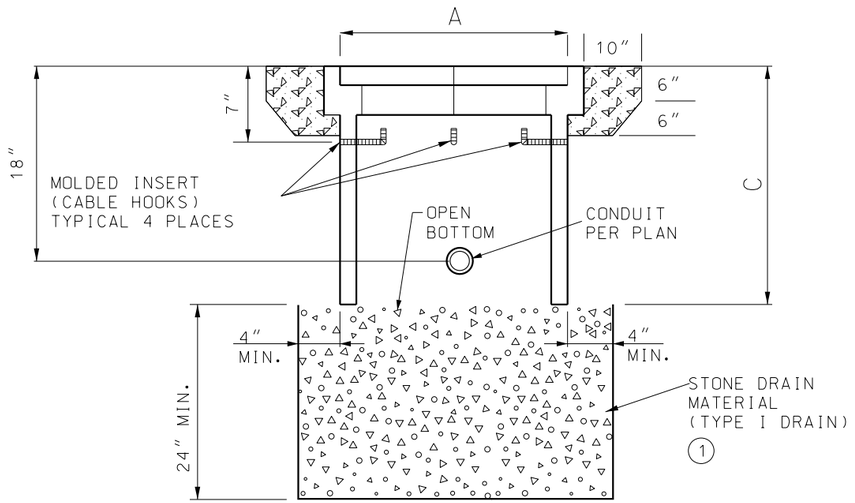
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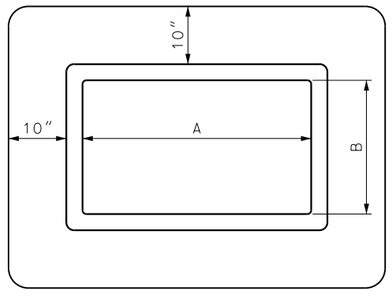
ITS PULLBOXES WITH CONCRETE PADS

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CLASS 2 ITS PULLBOX WITH CONCRETE PAD

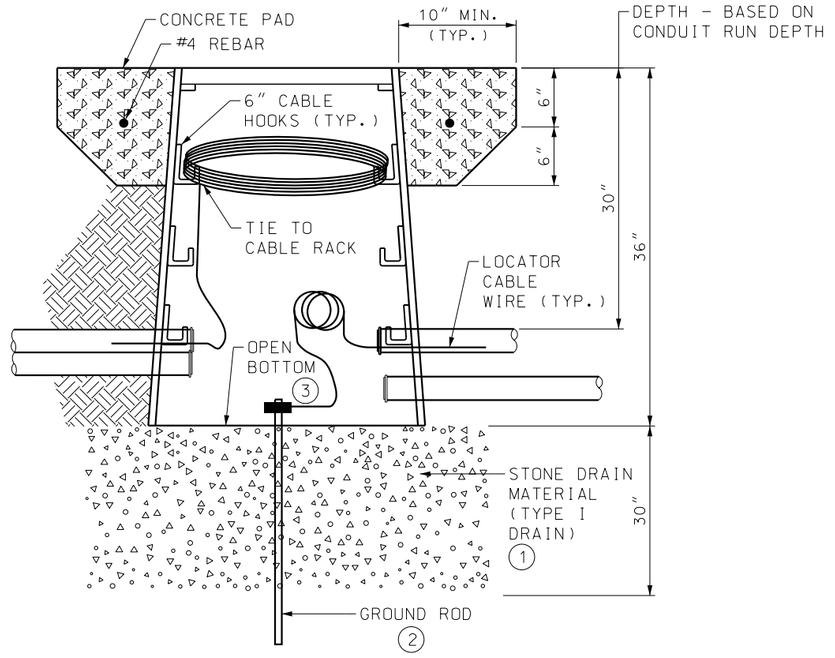


ELEVATION

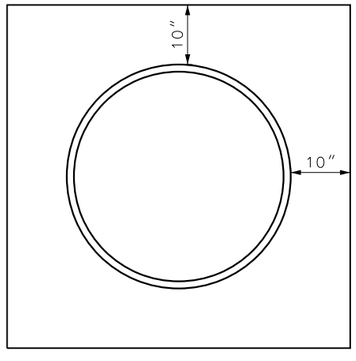


PLAN

CLASS 5 ITS PULLBOX WITH CONCRETE PAD



ELEVATION



PLAN

1. PROVIDE TYPE II DRAIN AS DIRECTED BY ENGINEER. SEE STANDARD PLAN 902.20 FOR TYPE II DRAIN DETAILS.
2. GROUND ROD ONLY REQUIRED IN PULLBOX NEAREST TO ITS OR SIGNAL CABINET.
3. IN THE PULLBOX NEAREST THE ITS OR SIGNAL CABINET, CONNECT THE TRACER WIRE TO A GROUND ROD CLAMP AND PROVIDE 5 FEET OF SLACK.

FOR PULLBOX DIMENSIONS SEE STANDARD PLAN 902.20

STATE OF MISSOURI
MARGARET ANN BRUNS
NUMBER PE-2010000798
PROFESSIONAL ENGINEER
6/16/2025 8:49:52 AM
Margaret Ann Bruns - Civil
MO PE-2010000798

DATE PREPARED
6/16/2025

ROUTE	STATE
231	MO
DISTRICT	SHEET NO.
SL	340

COUNTY
ST LOUIS

JOB NO.
J6S3631

CONTRACT ID.
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PROJECT NO.
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BRIDGE NO.
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DESCRIPTION	DATE
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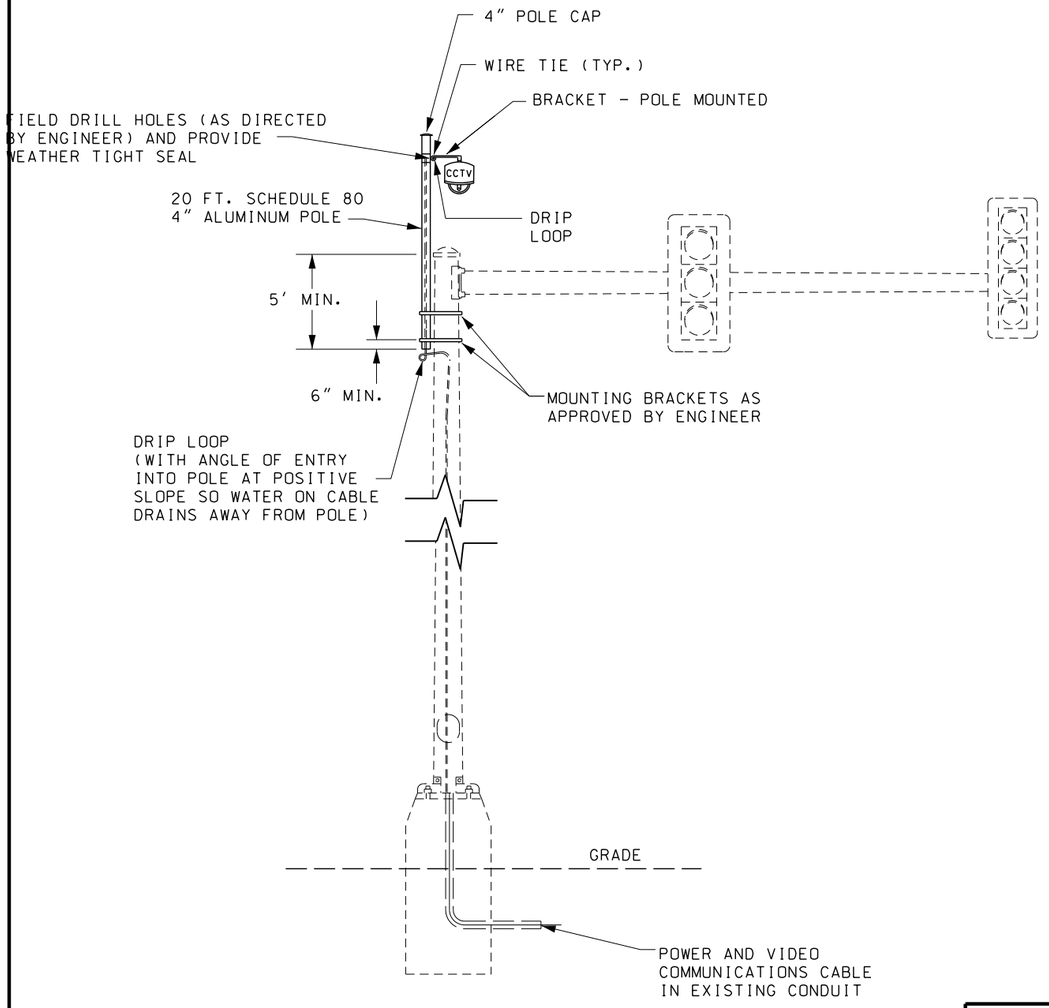
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St. Louis, MO 63021
Phone 314-394-3100
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ITS DETAILS
SHEET 8 OF 17

O:\2021R2\MoDOT_ORD_v10.10.01.03\23008 Hanson - Route 231 J6S3631 Phase I\DGN\Roadway\Final\Plotsheets\ITS Sheets\340_ITS_08_J6S3631_I1_ITS Pullbox.dgn 8:46:51 AM 6/16/2025



CCTV MOUNTING ON EXISTING SIGNAL POLE WITH NEW EXTENSION

NOTE:
ALL LABOR AND MATERIALS NEEDED TO COMPLETE THIS WORK WILL BE CONSIDERED INCIDENTAL TO THE PAY ITEMS "CCTV CAMERA ASSEMBLY, INSTALLED"

GENERAL NOTES:

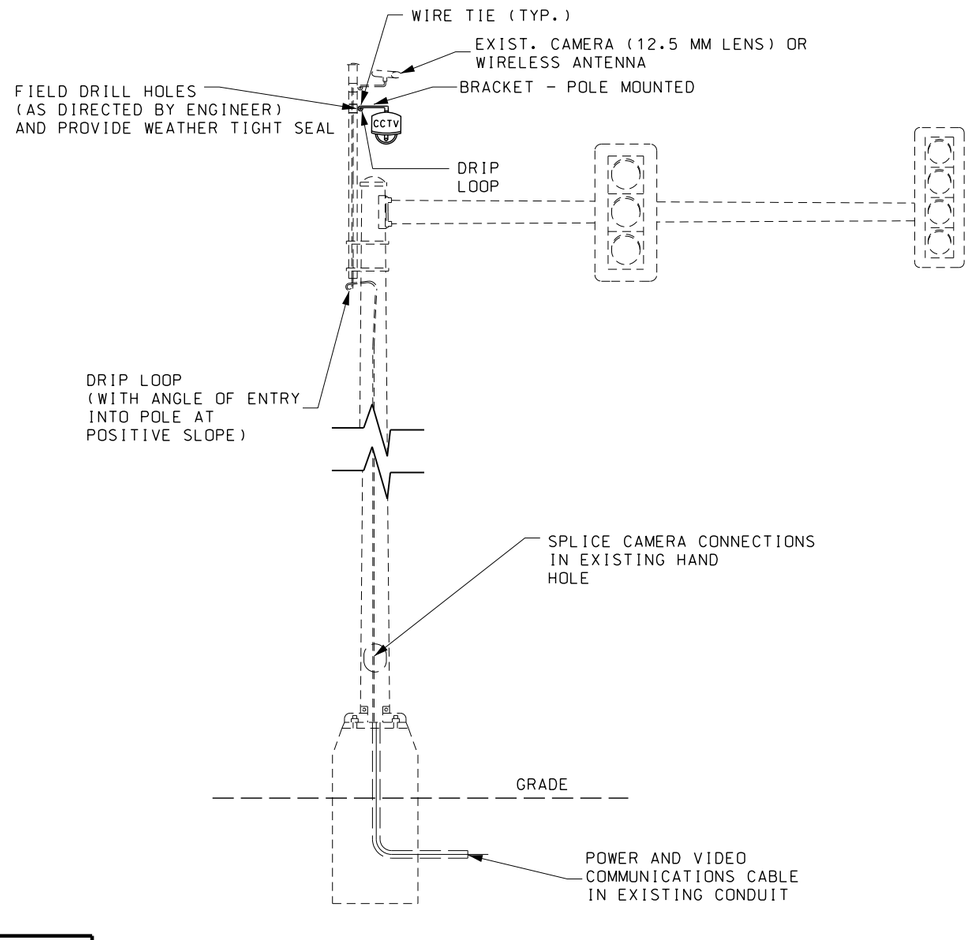
PROVIDE WATERTIGHT SEAL WHERE CABLES ENTER AND EXIT

CAMERAS SHALL BE AT MINIMUM 30' HEIGHT ABOVE GRADE UNLESS OTHERWISE NOTED

NO DIRECT PAY WILL BE MADE FOR MOUNTING HARDWARE

ALL DRILLED ALUMINUM POLE OR SIGNAL POLE OPENINGS FOR CABLE SHALL BE WEATHERPROOF. NO DIRECT PAY FOR DRILLED OPENINGS.

WHERE EXISTING EXTENSION POLE IS TO BE USE-IN-PLACE, MOUNT CCTV CAMERA BELOW EXISTING WIRELESS RADIO ANTENNA.



CCTV MOUNTING ON EXISTING SIGNAL POLE WITH EXISTING EXTENSION

NOTE:
ALL LABOR AND MATERIALS NEEDED TO COMPLETE THIS WORK WILL BE CONSIDERED INCIDENTAL TO THE PAY ITEMS "CCTV CAMERA ASSEMBLY, INSTALLED"

ITS
DETAILS - CCTV
SHEET 9 OF 17

STATE OF MISSOURI
PROFESSIONAL ENGINEER
MARGARET ANN BRUNS
NUMBER PE-2010000798
6/16/2025 8:50:07 AM
Margaret Ann Bruns - Civil
MO PE-2010000798

DATE PREPARED
6/16/2025

ROUTE	STATE
231	MO
DISTRICT	SHEET NO.
SL	341

COUNTY
ST LOUIS

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CONTRACT ID.
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PROJECT NO.
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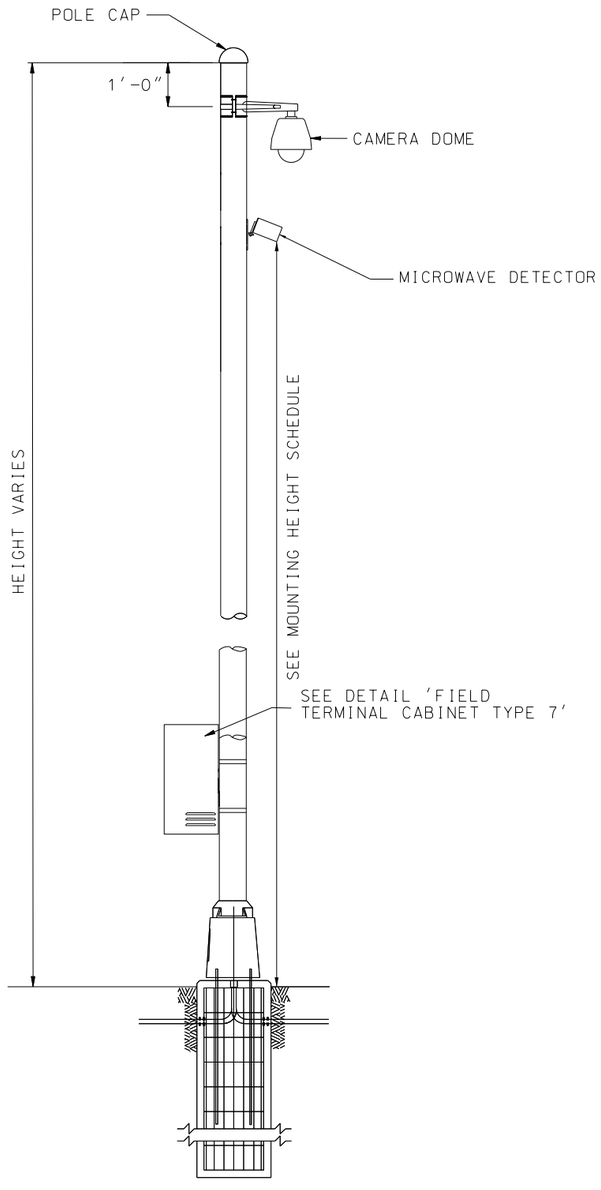
BRIDGE NO.
.

DESCRIPTION	DATE
.	.

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

EFK•Moen
Civil Engineering Design
13523 Barrett Parkway Dr
Suite 250
St Louis, MO 63021
Phone 314-394-3100
Fax 314-394-3199
Missouri Certificate of Authority: 001578



NEW CCTV CAMERA MOUNTING
ON TYPICAL CAMERA POLE

GENERAL NOTES:

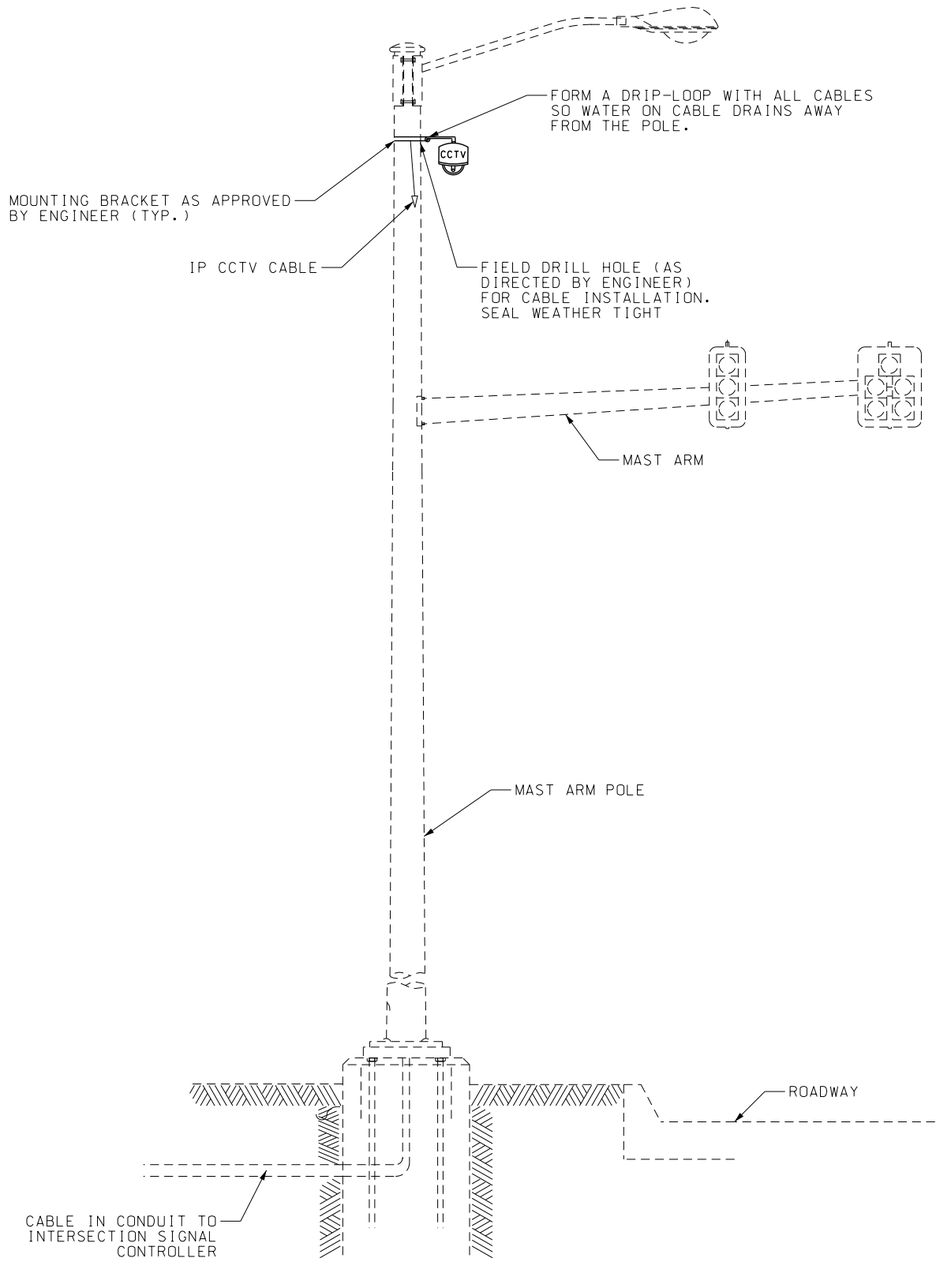
PROVIDE WATERTIGHT SEAL WHERE CABLES ENTER AND EXIT

CAMERAS SHALL BE AT MINIMUM 30' HEIGHT ABOVE GRADE UNLESS OTHERWISE NOTED

NO DIRECT PAY WILL BE MADE FOR MOUNTING HARDWARE

ALL DRILLED ALUMINUM POLE OR SIGNAL POLE OPENINGS FOR CABLE SHALL BE WEATHERPROOF. NO DIRECT PAY FOR DRILLED OPENINGS.

DISCLAIMER
THE PROFESSIONAL WHOSE SIGNATURE AND PERSONAL SEAL APPEAR HEREON ASSUMES RESPONSIBILITY ONLY FOR WHAT APPEARS ON THIS PAGE, AND DISCLAIMS (PURSUANT TO SECTION 327.411 RSMO) SPECIFICATION, ESTIMATES, REPORTS, OR OTHER DOCUMENTS OR INSTRUMENTS NOT SEALED BY THE UNDERSIGNED PROFESSIONAL RELATING TO OR INTENDED TO BE USED FOR ANY PART OR PARTS OF THE PROJECT TO WHICH THIS PAGE REFERS.



CCTV MOUNTING ON EXISTING
SIGNAL POLE WITH LIGHT

ITS
DETAILS - CCTV
SHEET 10 OF 17

STATE OF MISSOURI
PROFESSIONAL ENGINEER
MARGARET ANN BRUNS
NUMBER PE-2010000798

6/16/2025 8:50:41 AM
Margaret Ann Bruns - Civil
MO PE-2010000798

DATE PREPARED
6/16/2025

ROUTE	STATE
231	MO
DISTRICT	SHEET NO.
SL	342

COUNTY
ST LOUIS

JOB NO.
J6S3631

CONTRACT ID.
.

PROJECT NO.
.

BRIDGE NO.
.

DESCRIPTION	DATE
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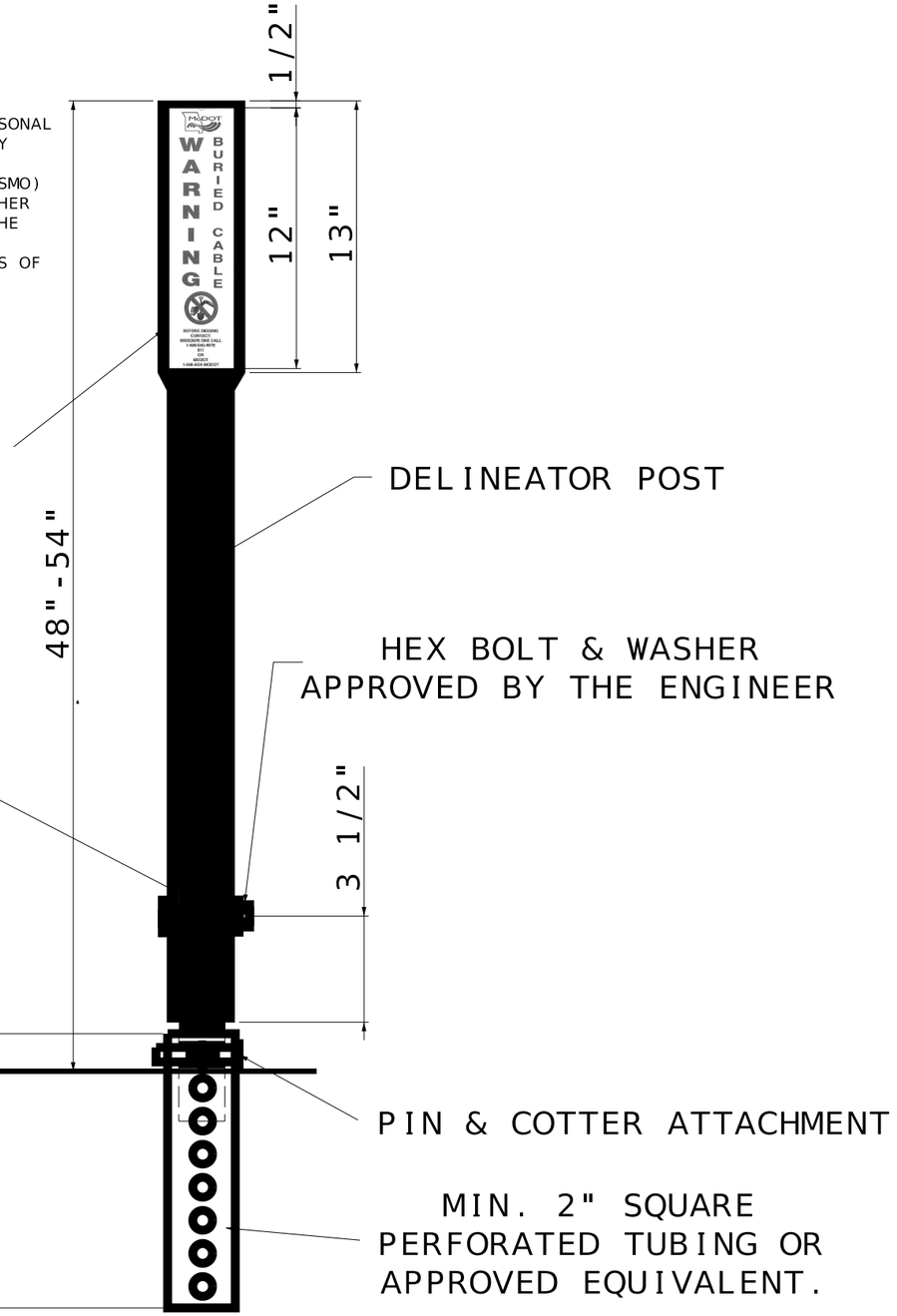
IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

EFK•Moen
Civil Engineering Design
13523 Barrett Parkway Dr
Suite 250
St. Louis, MO 63021
Phone 314-394-3100
Fax 314-394-3199
Missouri Certificate of Authority: 001578

MoDOT BURIED CABLE DRIVEABLE DELINEATOR POST W/ DEPTH STICKER

DISCLAIMER
THE PROFESSIONAL WHOSE SIGNATURE AND PERSONAL SEAL APPEAR HEREON ASSUMES RESPONSIBILITY ONLY FOR WHAT APPEARS ON THIS PAGE, AND DISCLAIMS (PURSUANT TO SECTION 327.411 RSMO) SPECIFICATION, ESTIMATES, REPORTS, OR OTHER DOCUMENTS OR INSTRUMENTS NOT SEALED BY THE UNDERSIGNED PROFESSIONAL RELATING TO OR INTENDED TO BE USED FOR ANY PART OR PARTS OF THE PROJECT TO WHICH THIS PAGE REFERS.





GENERAL NOTES:

1. STICKERS TO BE OF A NON-REFLECTIVE MATERIAL/SHEETING.
2. STICKERS SHALL BE PROVIDED ON 1 SIDE OF POST FOR INTERSTATE ROUTES UNLESS SPECIFIED BY THE ENGINEER.
3. STICKERS SHALL BE PROVIDED ON BOTH SIDES OF POST FOR ARTERIAL ROUTES UNLESS SPECIFIED BY THE ENGINEER.
4. STICKERS TO BE INCLUDED IN COST OF A DELINEATOR POST.
5. DEPTH STICKER SHALL BE 2"x12".

ITS DETAILS
SHEET 11 OF 17

STATE OF MISSOURI
MARGARET ANN BRUNS
NUMBER PE-2010000798
PROFESSIONAL ENGINEER
6/16/2025 8:50:59 AM
Margaret Ann Bruns - Civil
MO PE-2010000798

DATE PREPARED 6/16/2025
ROUTE 231 | STATE MO
DISTRICT SL | SHEET NO. 343
COUNTY ST LOUIS
JOB NO. J6S3631
CONTRACT ID. .
PROJECT NO. .
BRIDGE NO. .

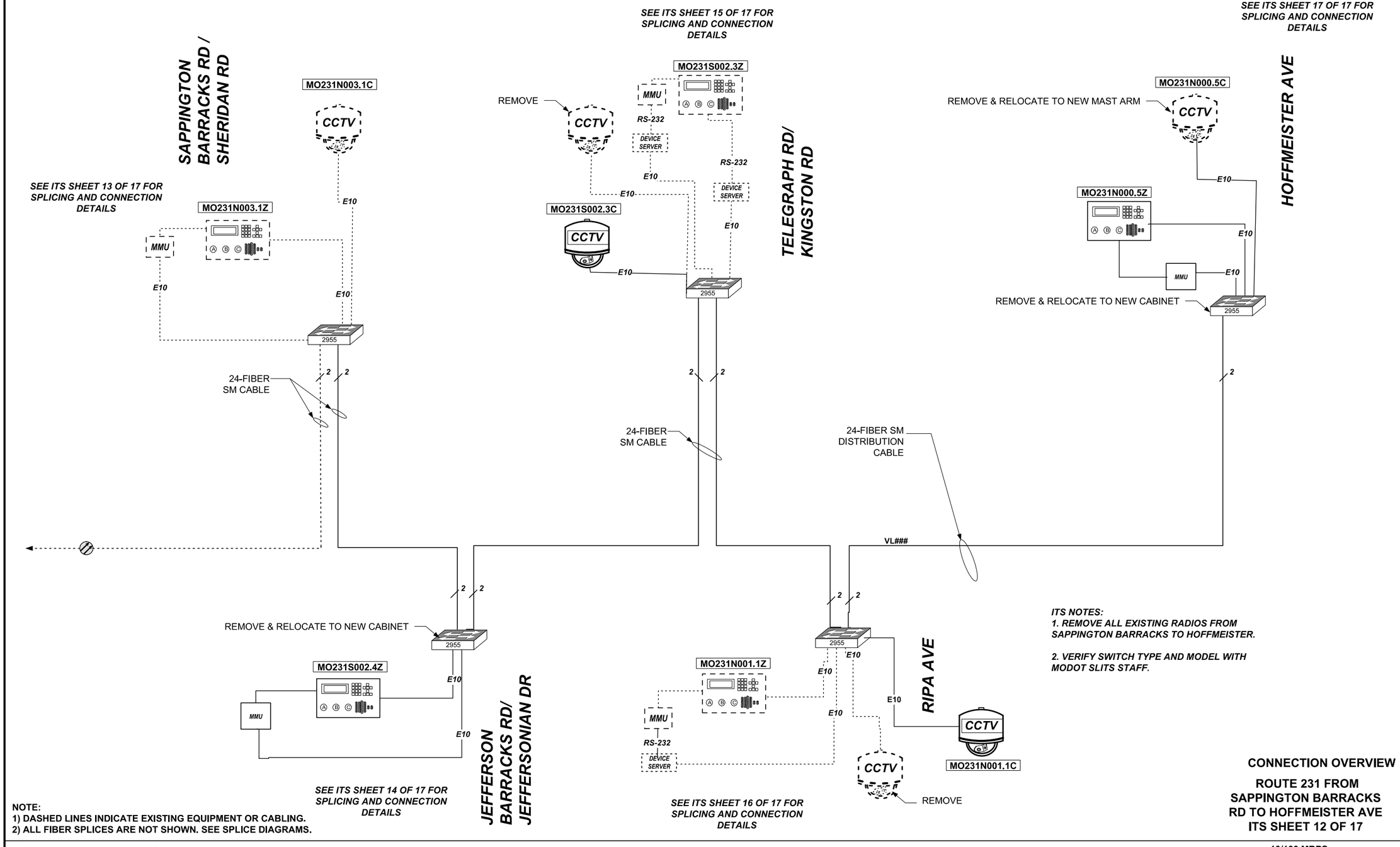
DESCRIPTION	DATE
.	.

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

EFK·Moen
Civil Engineering Design
13523 Barrett Parkway Dr
Suite 250
St Louis, MO 63021
Phone 314-394-3100
Fax 314-394-3199
Missouri Certificate of Authority: 001578

O:\2021R2\MoDOT_ORD_v10.10.01.03\23008 Hanson - Route 231 J6S3631 Phase I\DGN\Roadway\Final\Plotsheets\ITS Sheets\343_ITS_11_JSL0121_Buried_Cable_Delineator_I20.dgn 8:47:10 AM 6/16/2025



STATE OF MISSOURI
MARGARET ANN BRUNS NUMBER PE-2010000798
PROFESSIONAL ENGINEER
6/13/2025 6:23:04 AM
Margaret Ann Bruns - Civil
MO PE-2010000798

DATE PREPARED
6/13/2025

ROUTE	STATE
231	MO
DISTRICT	SHEET NO.
SL	344

COUNTY
ST. LOUIS

JOB NO.
J6S3631

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION	DATE

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
MoDOT
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

EFK•Moen
Civil Engineering Design
13523 Barrett Parkway Dr
Suite 250
St. Louis, MO 63021
Phone 314-394-3100
Fax 314-394-3199
Missouri Certificate of Authority: 001578

REV.

REMOVE RADIO LINK TO
MO231S002.3Z
JEFFERSON BARRACLKS /
JEFFERSONIAN

SIGNAL CABINET
RTE. 231 & SAPPINGTON BARRACKS RD/SHERIDAN RD

INSTALL 1 CISCO SUPPORTED S.F.P. MODULE

CISCO ETHERNET SWITCH

10/100 PORTS

SFP TX / RX
SFP TX / RX

SIGNAL MONITOR

ETHERNET ENABLE CONTROLLER

A B C

SDLC

CAT-5E STP

CAT-5E STP

CAT-5E STP

BACK PANEL

RG-59U

VIDEO PROCESSORS

BIU

RJ-45

RS-232

RG-59U *RG-59U* *RG-59U* *RG-59U*

1 2 3 4

VIDEO SWITCHER

VIDEO MONITOR

WALL-MOUNTED INTERCONNECT CENTER

24-FIBER CABLE TO
MO231S003.4Z
BARRACKSVIEW RD

BLUE TUBE

BLUE/BLUE	BLUE/BLUE
BLUE/ORANGE	BLUE/ORANGE
BLUE/GREEN	BLUE/GREEN
BLUE/BROWN	BLUE/BROWN
BLUE/SLATE	BLUE/SLATE
BLUE/WHITE	BLUE/WHITE
BLUE/RED	BLUE/RED
BLUE/BLACK	BLUE/BLACK
BLUE/YELLOW	BLUE/YELLOW
BLUE/VIOLET	BLUE/VIOLET
BLUE/ROSE	BLUE/ROSE
BLUE/AQUA	BLUE/AQUA

BLUE TUBE

ORANGE TUBE

ORANGE/BLUE	ORANGE/BLUE
ORANGE/ORANGE	ORANGE/ORANGE
ORANGE/GREEN	ORANGE/GREEN
ORANGE/BROWN	ORANGE/BROWN
ORANGE/SLATE	ORANGE/SLATE
ORANGE/WHITE	ORANGE/WHITE
ORANGE/RED	ORANGE/RED
ORANGE/BLACK	ORANGE/BLACK
ORANGE/YELLOW	ORANGE/YELLOW
ORANGE/VIOLET	ORANGE/VIOLET
ORANGE/ROSE	ORANGE/ROSE
ORANGE/AQUA	ORANGE/AQUA

ORANGE TUBE

24-FIBER CABLE TO
MR231S002.4Z
JEFFERSON BARRACKS/
JEFFERSONIAN

KEY

MI170N123.4C	DEVICE IDENTIFIER
CCTV EM	CCTV CAMERA
CCTV EX	EXISTING CCTV CAMERA
DMS	DYNAMIC MESSAGE SIGN
DMS	EXISTING DYNAMIC MESSAGE SIGN
	SM PATCH THROUGH FIBER OPTIC JUMPER
	SM EQUIPMENT CONNECTION FIBER OPTIC JUMPER
	SM FIBER OPTIC PIGTAIL
	MM PATCH THROUGH FIBER OPTIC JUMPER
	MM EQUIPMENT CONNECTION FIBER OPTIC JUMPER
	MM FIBER OPTIC PIGTAIL
	BARE FIBER LEFT COILED IN SPLICE TRAY
	EXISTING/PROPOSED FUSION SPLICE
	PATCH PANEL MODULE
	WIRELESS LINK
VDS AP	SENSYS DETECTION SYSTEM

1. MAXIMUM SPLICE LOSS SHALL BE 0.1 dB
2. NO INTERMEDIATE SPLICES ALLOWED
3. ALL SPLICES SHALL BE FUSION SPLICES
4. DASHED LINES INDICATE EXISTING EQUIPMENT OR CABLING.

FIBER SPLICING & BLOCK DIAGRAM

ROUTE 231 & SAPPINGTON BARRACKS RD/ SHERIDAN RD MR231N003.1Z SHEET 13 OF 17

STATE OF MISSOURI
PROFESSIONAL ENGINEER
MARGARET ANN BRUNS NUMBER PE-2010000798
6/16/2025 6:22:33 AM
Margaret Ann Bruns - Civil
MO PE-2010000798

DATE PREPARED 6/13/2025

ROUTE	STATE
231	MO
DISTRICT	SHEET NO.
SL	345

COUNTY: ST. LOUIS
JOB NO.: J6S3631
CONTRACT ID.:
PROJECT NO.:
BRIDGE NO.:

DESCRIPTION	DATE

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
MoDOT
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

EFK•Moen
Civil Engineering Design
13523 Barrett Parkway Dr
Suite 250
St. Louis, MO 63021
Phone 314-394-3100
Fax 314-394-3199
Missouri Certificate of Authority: 001578

REV.

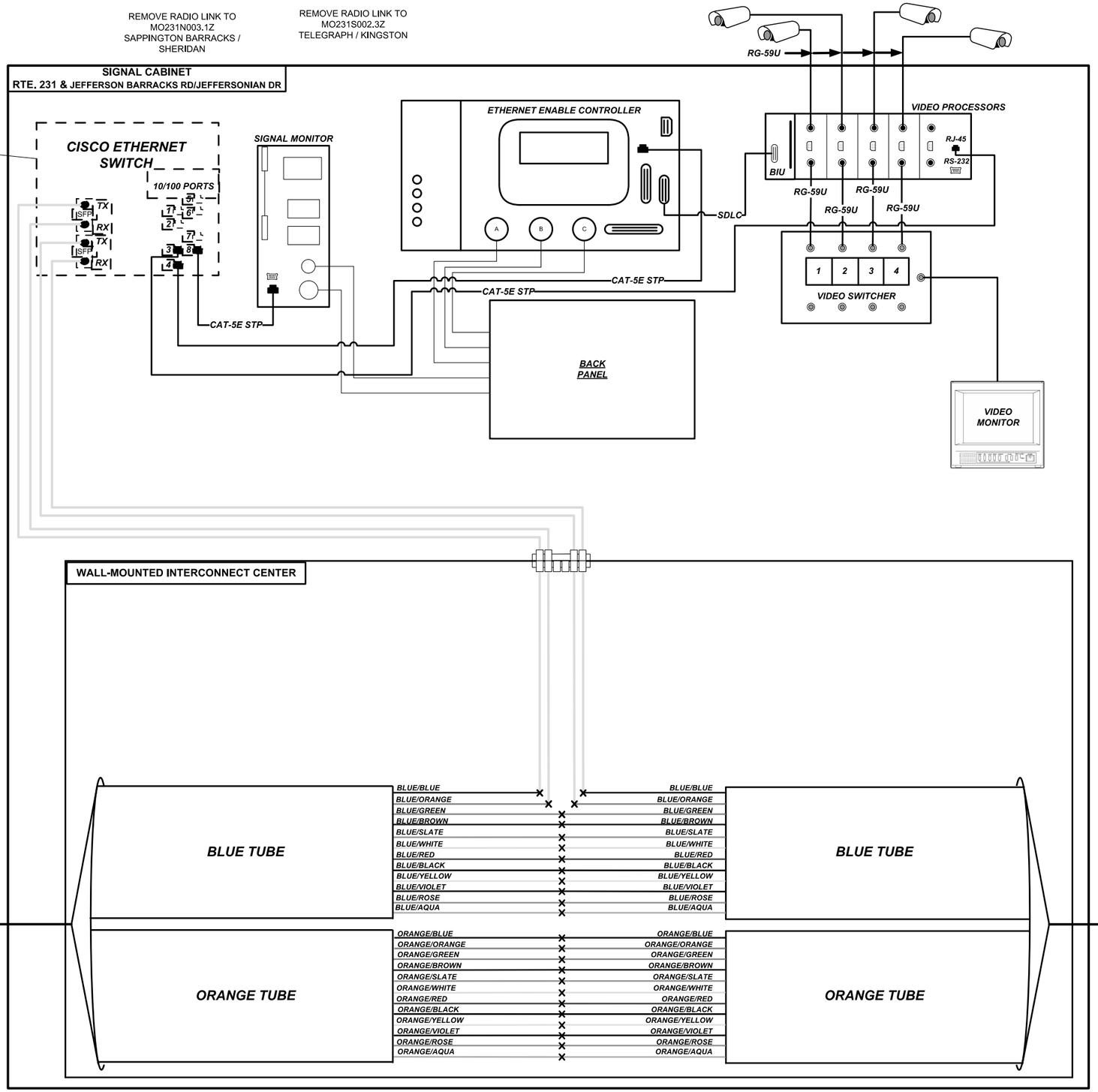
REMOVE RADIO LINK TO
MO231N003.1Z
SAPPINGTON BARRACKS /
SHERIDAN

REMOVE RADIO LINK TO
MO231S002.3Z
TELEGRAPH / KINGSTON

REMOVE & RELOCATE EX. SWITCH TO NEW CABINET.

INSTALL 2 CISCO SUPPORTED S.F.P. MODULES

SIGNAL CABINET
RTE. 231 & JEFFERSON BARRACKS RD/JEFFERSONIAN DR



WALL-MOUNTED INTERCONNECT CENTER

24-FIBER CABLE TO
MO231N003.1Z
SAPPINGTON
BARRACKS/
SHERIDAN

24-FIBER CABLE TO
MO231S002.3Z
TELEGRAPH/KINGSTON

KEY

MI170N123.4C	DEVICE IDENTIFIER
CCTV	CCTV CAMERA
CCTV	EXISTING CCTV CAMERA
DMS	DYNAMIC MESSAGE SIGN
DMS	EXISTING DYNAMIC MESSAGE SIGN
	SM PATCH THROUGH FIBER OPTIC JUMPER
	SM EQUIPMENT CONNECTION FIBER OPTIC JUMPER
	SM FIBER OPTIC PIGTAIL
	MM PATCH THROUGH FIBER OPTIC JUMPER
	MM EQUIPMENT CONNECTION FIBER OPTIC JUMPER
	MM FIBER OPTIC PIGTAIL
	BARE FIBER LEFT COILED IN SPLICE TRAY
	EXISTING/PROPOSED FUSION SPLICE
	PATCH PANEL MODULE
	WIRELESS LINK
VDS AP	SENSYS DETECTION SYSTEM

1. MAXIMUM SPLICE LOSS SHALL BE 0.1 dB
2. NO INTERMEDIATE SPLICES ALLOWED
3. ALL SPLICES SHALL BE FUSION SPLICES
4. DASHED LINES INDICATE EXISTING EQUIPMENT OR CABLING.

FIBER SPLICING & BLOCK DIAGRAM

ROUTE 231 & JEFFERSON BARRACKS RD/ JEFFERSONIAN DR MO231S002.4Z SHEET 14 OF 17

STATE OF MISSOURI
MARGARET ANN BRUNS
NUMBER PE-2010000798
PROFESSIONAL ENGINEER
6/16/2025 6:23:50 AM
Margaret Ann Bruns - Civil
MO PE-2010000798

DATE PREPARED 6/13/2025

ROUTE	STATE
231	MO
DISTRICT	SHEET NO.
SL	346

COUNTY: ST. LOUIS
JOB NO.: J6S3631
CONTRACT ID.:
PROJECT NO.:
BRIDGE NO.:

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

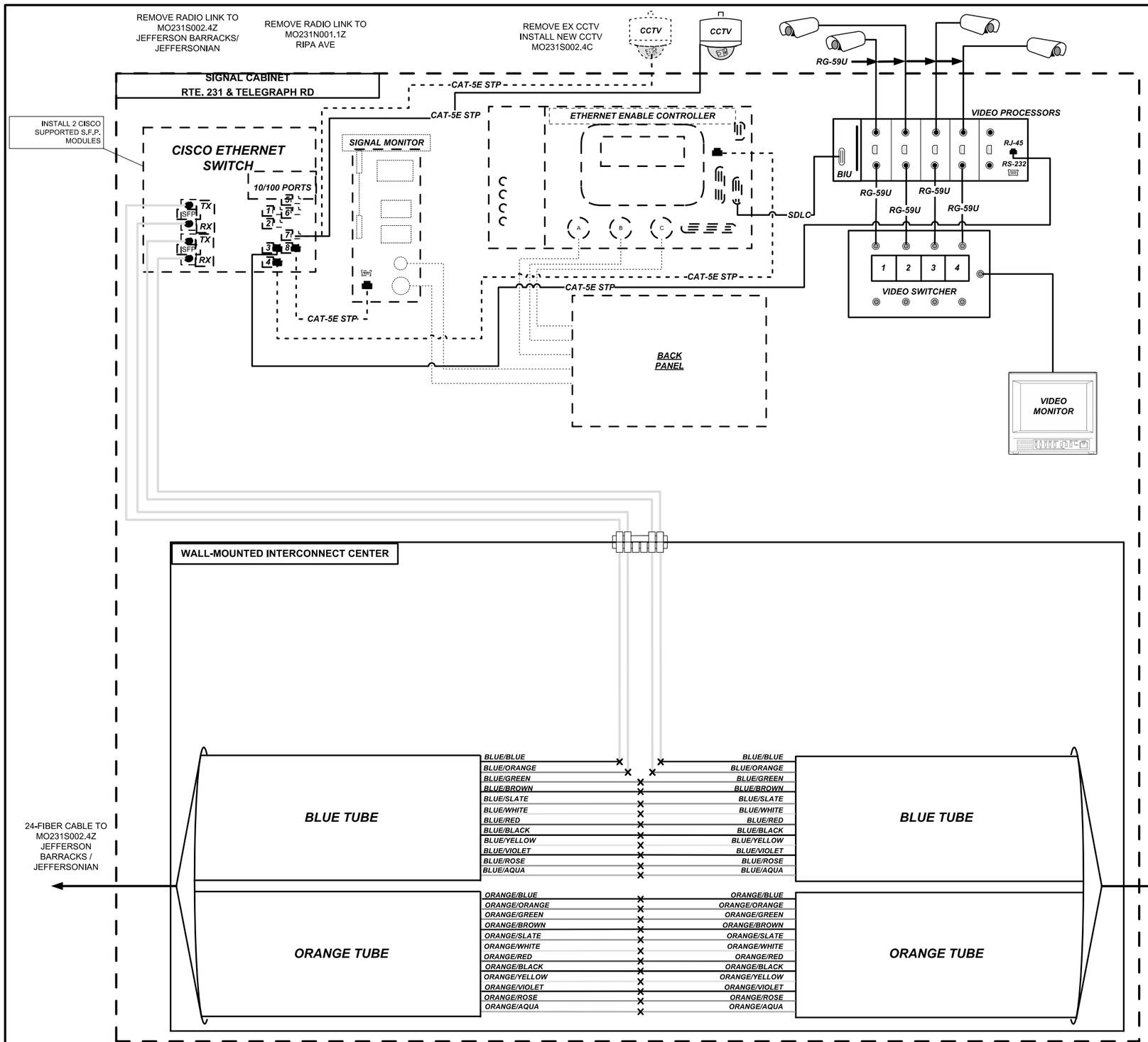
DESCRIPTION	DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

EFK•Moen
Civil Engineering Design
13523 Barrett Parkway Dr Phone 314-394-3100
Suite 250 Fax 314-394-3199
St. Louis, MO 63021
Missouri Certificate of Authority: 001578

REV.

Splicing_J6S3631_RT 231.vsd 6/13/2025



KEY

MI170N123.4C	DEVICE IDENTIFIER
CCTV	CCTV CAMERA
CCTV	EXISTING CCTV CAMERA
DMS	DYNAMIC MESSAGE SIGN
DMS	EXISTING DYNAMIC MESSAGE SIGN
	SM PATCH THROUGH FIBER OPTIC JUMPER
	SM EQUIPMENT CONNECTION FIBER OPTIC JUMPER
	SM FIBER OPTIC PIGTAIL
	MM PATCH THROUGH FIBER OPTIC JUMPER
	MM EQUIPMENT CONNECTION FIBER OPTIC JUMPER
	MM FIBER OPTIC PIGTAIL
	BARE FIBER LEFT COILED IN SPLICE TRAY
	EXISTING/PROPOSED FUSION SPLICE
	PATCH PANEL MODULE
	WIRELESS LINK
VDS AP	SENSYS DETECTION SYSTEM

1. MAXIMUM SPLICE LOSS SHALL BE 0.1 dB
2. NO INTERMEDIATE SPLICES ALLOWED
3. ALL SPLICES SHALL BE FUSION SPLICES
4. DASHED LINES INDICATE EXISTING EQUIPMENT OR CABLING.

FIBER SPLICING & BLOCK DIAGRAM

ROUTE 231 & TELEGRAPH RD/KINGSTON RD MO231S.002.3Z SHEET 15 OF 17

STATE OF MISSOURI
PROFESSIONAL ENGINEER
MARGARET ANN BRUNS
NUMBER PE-2010000798
6/16/2025 6:24:48 AM
Margaret Ann Bruns - Civil
MO PE-2010000798

DATE PREPARED 6/13/2025

ROUTE	STATE
231	MO
DISTRICT	SHEET NO.
SL	347

COUNTY: ST. LOUIS
JOB NO.: J6S3631
CONTRACT ID.:
PROJECT NO.:
BRIDGE NO.:

DESCRIPTION | DATE | REV.

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

EFK•Moen
Civil Engineering Design
13523 Barrett Parkway Dr
Suite 250
St. Louis, MO 63021
Phone 314-394-3100
Fax 314-394-3199
Missouri Certificate of Authority: 001578

REMOVE RADIO LINK TO MO231S002.3Z TELEGRAPH RD /KINGSTON

REMOVE RADIO LINK TO MO231N000.5Z HOFFMEISTER AVE

MO231N001.1C
REMOVE & INSTALL NEW CCTV ON EXISTING MAST ARM

CCTV

CCTV

RG-59U

SIGNAL CABINET
RTE. 231 & RIPA AVE

CAT-5E STP

INSTALL 2 CISCO SUPPORTED S.F.P. MODULES

CISCO ETHERNET SWITCH

10/100 PORTS

SFP TX RX TX RX

1 2 3 4 5 6 7 8

SIGNAL MONITOR

ETHERNET ENABLE CONTROLLER

A B C

SDLC

VIDEO PROCESSORS

BIU

RJ-45

RS-232

RG-59U RG-59U RG-59U RG-59U

1 2 3 4

VIDEO SWITCHER

CAT-5E STP

CAT-5E STP

CAT-5E STP

BACK PANEL

VIDEO MONITOR

WALL-MOUNTED INTERCONNECT CENTER

24-FIBER CABLE TO MO231S002.3Z TELEGRAPH RD/ KINGSTON

BLUE TUBE

BLUE/BLUE	BLUE/BLUE
BLUE/ORANGE	BLUE/ORANGE
BLUE/GREEN	BLUE/GREEN
BLUE/BROWN	BLUE/BROWN
BLUE/SLATE	BLUE/SLATE
BLUE/WHITE	BLUE/WHITE
BLUE/RED	BLUE/RED
BLUE/BLACK	BLUE/BLACK
BLUE/YELLOW	BLUE/YELLOW
BLUE/VIOLET	BLUE/VIOLET
BLUE/ROSE	BLUE/ROSE
BLUE/AQUA	BLUE/AQUA

BLUE TUBE

ORANGE TUBE

ORANGE/BLUE	ORANGE/BLUE
ORANGE/ORANGE	ORANGE/ORANGE
ORANGE/GREEN	ORANGE/GREEN
ORANGE/BROWN	ORANGE/BROWN
ORANGE/SLATE	ORANGE/SLATE
ORANGE/WHITE	ORANGE/WHITE
ORANGE/RED	ORANGE/RED
ORANGE/BLACK	ORANGE/BLACK
ORANGE/YELLOW	ORANGE/YELLOW
ORANGE/VIOLET	ORANGE/VIOLET
ORANGE/ROSE	ORANGE/ROSE
ORANGE/AQUA	ORANGE/AQUA

ORANGE TUBE

24-FIBER CABLE TO MO231N000.5Z HOFFMEISTER AVE

KEY

MI170N123.4C	DEVICE IDENTIFIER
CCTV	CCTV CAMERA
CCTV	EXISTING CCTV CAMERA
DMS	DYNAMIC MESSAGE SIGN
DMS	EXISTING DYNAMIC MESSAGE SIGN
	SM PATCH THROUGH FIBER OPTIC JUMPER
	SM EQUIPMENT CONNECTION FIBER OPTIC JUMPER
	SM FIBER OPTIC PIGTAIL
	MM PATCH THROUGH FIBER OPTIC JUMPER
	MM EQUIPMENT CONNECTION FIBER OPTIC JUMPER
	MM FIBER OPTIC PIGTAIL
	BARE FIBER LEFT COILED IN SPLICE TRAY
	EXISTING/PROPOSED FUSION SPLICE
	PATCH PANEL MODULE
	WIRELESS LINK
VDS AP	SENSYS DETECTION SYSTEM

1. MAXIMUM SPLICE LOSS SHALL BE 0.1 dB
2. NO INTERMEDIATE SPLICES ALLOWED
3. ALL SPLICES SHALL BE FUSION SPLICES
4. DASHED LINES INDICATE EXISTING EQUIPMENT OR CABLING.

FIBER SPLICING & BLOCK DIAGRAM

ROUTE 231 & RIPA AVE MO231N001.1Z SHEET 16 OF 17

STATE OF MISSOURI
MARGARET ANN BRUNS
NUMBER PE-2010000798
PROFESSIONAL ENGINEER

6/13/2025 6:25:54 AM
Margaret Ann Bruns - Civil
MO PE-2010000798

DATE PREPARED 6/13/2025

ROUTE	STATE
231	MO
DISTRICT	SHEET NO.
SL	348

COUNTY ST. LOUIS

JOB NO. J6S3631

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION | DATE

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

EFK•Moen
Civil Engineering Design
13523 Barrett Parkway Dr
Suite 250
St. Louis, MO 63021
Phone 314-394-3100
Fax 314-394-3199
Missouri Certificate of Authority: 001578

REV.

REMOVE RADIO LINK TO
MO231N001.1Z
RIPA AVE

MO231N000.5C
REMOVE & RELOCATE
TO NEW MAST ARM

CCTV

RG-59U

SIGNAL CABINET
RTE. 231 & HOFFMEISTER AVE

CAT-5E STP

REMOVE & RELOCATE EX. SWITCH TO NEW CABINET.

INSTALL 2 CISCO SUPPORTED S.F.P. MODULES

CISCO ETHERNET SWITCH

10/100 PORTS

SFP TX RX TX RX

SIGNAL MONITOR

ETHERNET ENABLE CONTROLLER

A B C

SDLC

VIDEO PROCESSORS

BIU

RJ-45

RS-232

RG-59U RG-59U RG-59U RG-59U

1 2 3 4

VIDEO SWITCHER

CAT-5E STP

CAT-5E STP

CAT-5E STP

BACK PANEL

VIDEO MONITOR

WALL-MOUNTED INTERCONNECT CENTER

BLUE TUBE

BLUE/BLUE
BLUE/ORANGE
BLUE/GREEN
BLUE/BROWN
BLUE/SLATE
BLUE/WHITE
BLUE/RED
BLUE/BLACK
BLUE/YELLOW
BLUE/VIOLET
BLUE/ROSE
BLUE/AQUA

ORANGE TUBE

ORANGE/BLUE
ORANGE/ORANGE
ORANGE/GREEN
ORANGE/BROWN
ORANGE/SLATE
ORANGE/WHITE
ORANGE/RED
ORANGE/BLACK
ORANGE/YELLOW
ORANGE/VIOLET
ORANGE/ROSE
ORANGE/AQUA

24-FIBER CABLE TO
MO231N001.1Z
RIPA AVE

KEY

MI170N123.4C	DEVICE IDENTIFIER
CCTV	CCTV CAMERA
CCTV EX	EXISTING CCTV CAMERA
DMS	DYNAMIC MESSAGE SIGN
DMS	EXISTING DYNAMIC MESSAGE SIGN
	SM PATCH THROUGH FIBER OPTIC JUMPER
	SM EQUIPMENT CONNECTION FIBER OPTIC JUMPER
	SM FIBER OPTIC PIGTAIL
	MM PATCH THROUGH FIBER OPTIC JUMPER
	MM EQUIPMENT CONNECTION FIBER OPTIC JUMPER
	MM FIBER OPTIC PIGTAIL
	BARE FIBER LEFT COILED IN SPLICE TRAY
	EXISTING/PROPOSED FUSION SPLICE
	PATCH PANEL MODULE
	WIRELESS LINK
VDS AP	SENSYS DETECTION SYSTEM

1. MAXIMUM SPLICE LOSS SHALL BE 0.1 dB
2. NO INTERMEDIATE SPLICES ALLOWED
3. ALL SPLICES SHALL BE FUSION SPLICES
4. DASHED LINES INDICATE EXISTING EQUIPMENT OR CABLING.

FIBER SPLICING & BLOCK DIAGRAM

ROUTE 231 & HOFFMEISTER AVE MO231N000.5Z SHEET 17 OF 17

STATE OF MISSOURI
MARGARET ANN BRUNS
NUMBER PE-2010000798
PROFESSIONAL ENGINEER

6/16/2025 6:26:49 AM
Margaret Ann Bruns - Civil
MO PE-2010000798

DATE PREPARED
6/13/2025

ROUTE	STATE
231	MO
DISTRICT	SHEET NO.
SL	349

COUNTY
ST. LOUIS

JOB NO.
J6S3631

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DATE	DESCRIPTION

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
MoDOT
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

EFK•Moen
Civil Engineering Design
13523 Barrett Parkway Dr
Suite 250
St. Louis, MO 63021
Phone 314-394-3100
Fax 314-394-3199
Missouri Certificate of Authority: 001578

REV.

LEGEND:

(R&R)	REMOVE EXISTING SIGN AND POST. INSTALL NEW SIGN AND NEW POST AT DESIGNATED LOCATION
(R & RELOC.)	REMOVE POST AND REUSE EXISTING SIGN ON NEW POST AT DESIGNATED LOCATION
(R)	REMOVE
(DND)	DO NOT DISTURB
(RBO)	REMOVED BY OWNER
(UIP)	USE IN PLACE

NOTE: SIGN LOCATIONS MAY BE MODIFIED IN THE FIELD TO PROVIDE MIN. HORIZONTAL CLEARANCES, AVOID EXISTING SIGNS AND UNDERGROUND FACILITIES.

DISCLAIMER
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6 Franru Ln (R & RELOC.) (a) D3-1 12" (2 EA) (b) D3-1 12" (2 EA) (c) SPECIAL (d) SPECIAL STA. 16+52 OFFSET 50'L

7 Telegraph Rd

8 END ST. LOUIS COUNTY MAINTENANCE

9 BEGIN ST. LOUIS COUNTY MAINTENANCE

SCALE 0 20 40 60

29H510872
2923 TELEGRAPH RD
N/F
HOPE VINEYARD CHURCH
DB 20275 PG 1656

(DND) OM3-R
12" X 36"
STA. 13+95

NO PARKING ANY TIME
(R) R7-1D
12" X 18"
STA. 16+04

29H510630
2909 TELEGRAPH RD
N/F
EBB PROPERTIES LLC
DB 22908 PG 542

3 R3-9b
24" X 36"
STA. 15+17
OFFSET 43'L
CENTER LANE ONLY

5 STOP
(R & R) R1-1
36" X 36"
STA. 16+09
OFFSET 43'L

FRANRU LN

EXIST. R/W

EXIST. BMP RESERVE AREA TO ST. LOUIS MSD (DND)

29H510894
515 FRANRU LN
N/F
SYLVAN SPRINGS ASSOCIATES LP
DB 23928 PG 3080

EXIST. ST. LOUIS STORM WATER ESMT.

T.C.F.

PAVEMENT MARKINGS TO BE COMPLETED VIA MODOT JOB NO. J6S3632

BEGIN PROJECT STA. 13+72.50

℄ FRANRU LN

℄ RTE. 231 / TELEGRAPH RD

MATCH LINE STA. 17+75.00

RTE. 231 / TELEGRAPH RD

29H230442
2878 TELEGRAPH RD
N/F
LJC COMMERCIAL LLC
DB 23714 PG 80

2 R3-9b
24" X 36"
STA. 14+41
OFFSET 41'R
CENTER LANE ONLY

1 (R & R) R2-1
36" X 48"
STA. 14+08
OFFSET 40'R
SPEED LIMIT 40

4 NO PARKING ANY TIME
R7-1D
12" X 18"
STA. 15+84
OFFSET 34'R

(R) R7-1R
12" X 18"
STA. 16+15
NO PARKING ANY TIME

29H510805
2866 TELEGRAPH RD
N/F
LORCOR LLC
DB 17566 PG 3781

29H510814
2858 TELEGRAPH RD
N/F
2858 TELEGRAPH LLC
DB 19789 PG 2706

29H510784
2856 TELEGRAPH RD
N/F
LESSER, JAMES & SIMPSON, TABITHA A.
DB 17311 PG 3552

29H510696
2854 TELEGRAPH RD
N/F
PROSSER, CHARLES A. & CYNTHIA D., H/W
DB 23912 PG 1366

SIGNING SHEETS
SHEET 1 OF 68

LAYOUT	NS	01/2025
DRAWN	SMC	01/2025
REVIEWED	DJK	01/2025

STATE OF MISSOURI DENNIS J. KOSCIELSKI NUMBER PE-2005000712 PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED 7/25/2025

ROUTE	STATE
231	MO
DISTRICT	SHEET NO.
SL	350

COUNTY ST. LOUIS

JOB NO. J6S3631

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

DESCRIPTION	DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

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LEGEND:

(R&R)	REMOVE EXISTING SIGN AND POST. INSTALL NEW SIGN AND NEW POST AT DESIGNATED LOCATION
(R & RELOC.)	REMOVE POST AND REUSE EXISTING SIGN ON NEW POST AT DESIGNATED LOCATION
(R)	REMOVE
(DND)	DO NOT DISTURB
(RBO)	REMOVED BY OWNER
(UIP)	USE IN PLACE

NOTE: SIGN LOCATIONS MAY BE MODIFIED IN THE FIELD TO PROVIDE MIN. HORIZONTAL CLEARANCES, AVOID EXISTING SIGNS AND UNDERGROUND FACILITIES.

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SCALE
0 20 40 60

29H510894
515 FRANRU LN
N/F
SYLVAN SPRINGS ASSOCIATES LP
DB 23928 PG 3080

29H510432
2843 TELEGRAPH RD
N/F
TAYLOR, CHARLES
DB 23754 PG 3621

29H510773
2841 TELEGRAPH RD
N/F
RANDAZZO, VITO A.
DB 23466 PG 306

29H510542
2833 TELEGRAPH RD
N/F
THE LEMAY CHURCH OF GOD
DB UNKNOWN

MATCH LINE STA. 17+75.00

MATCH LINE STA. 22+75.00

RTE. 231 / TELEGRAPH RD

EXIST. R/W

EXIST. BMP RESERVE AREA TO ST. LOUIS MSD (DND)

EXIST. 5' PERM. ESMT.

EXIST. 10' PERM. ESMT.

T.C.E.

SIGN

13 METRO BUS
(R & RELOC.) SPECIAL
16" X 20"
STA. 18+99
OFFSET 37'L

(DND) R1-2
36" X 36"
STA. 17+95

(UIP) R3-2
24" X 24"
STA. 18+10

(DND) R4-7
24" X 30"
STA. 18+27

14 R3-9b
24" X 36"
STA. 19+14
OFFSET 37'L
CENTER LANE ONLY

RECTANGULAR RAPID FLASHING BEACON ASSEMBLY WITH TYPE C POST BASE

W11-2
36" X 36"
(2 EACH)

OR

W16-7P
12" X 16"
(2 EACH)

R10-25
12" X 18"
PUSH BUTTON TO TURN ON WASHING LIGHTS

20 R1-5
36" X 36"
STA. 20+45
OFFSET 37'L
HERE TO

27 (a) W11-2 36" X 36"
(b) W16-9P 30" X 18"
STA. 24+19
OFFSET 38'L
AHEAD

28

ENTER ONLY
(DND) SPECIAL
STA. 21+78

ENTER ONLY
(DND) SPECIAL
STA. 22+00

10 (a) W11-2 36" X 36"
(b) W16-9P 30" X 18"
STA. 18+75
OFFSET 37'R
AHEAD

11

12 CENTER LANE ONLY
R3-9b
24" X 36"
STA. 18+74
OFFSET 39'R

STOP
(UIP) R1-1
36" X 36"
STA. 15+55

16 R3-17 24" X 18"
STA. 19+14
OFFSET 37'R
BIKE LANE

17 R1-5
36" X 36"
STA. 19+98
OFFSET 37'R
HERE TO

18 R4-7
24" X 30"
STA. 20+08
OFFSET 0'

19 R4-7
24" X 30"
STA. 20+33
OFFSET 0'

21 (R & RELOC)
R7-1R
12" X 18"
STA. 20+74
OFFSET 34'R
NO PARKING ANY TIME

(R)
(a) 36" X 36" W11-1
(b) 24" X 36" W16-1P
STA. 20+27
SHARE THE ROAD

(R & RELOC.)
(a) D3-1 12" (2 EA)
(b) D3-1 12" (2 EA)
(c) SPECIAL
(d) SPECIAL
STA. 20+98
OFFSET 46'L

22 Sylvia Dr
23 Telegraph Rd
24 2ND ST. LOUIS COUNTY MAINTENANCE
25 SCHWARZWALD JAMOKE SHORT ST. MOSAIC

26 (R& R) R1-1
36" X 36"
STA. 21+30
OFFSET 41'R
STOP

15 (UIP)
(a/b) 36" X 9" W14-2aL/R
(c) D3-1 12" (2 EA)
(d) D3-1 12" (2 EA)
(e) SPECIAL
(f) SPECIAL
STA. 15+56

NO OUTLET
Sylvanwood Ter
Telegraph Rd
2ND ST. LOUIS COUNTY MAINTENANCE
BEGIN ST. LOUIS COUNTY MAINTENANCE

SYLVANWOOD TERRACE

SYLVIA DR

29H510696
2854 TELEGRAPH RD
N/F
PROSSER, CHARLES A. & CYNTHIA D., H/W
DB 23912 PG 1366

29H510751
2852 TELEGRAPH RD
N/F
NUNEZ, JOLMAN E. & PERDOMA, KELIN
DB 23442 PG 2472

29H510740
2850 TELEGRAPH RD
N/F
JACQUOT, DOUGLAS & GAIL L., H/W
DB 14683 PG 1447

29H510333
2844 TELEGRAPH RD
N/F
PACQUET, FRANCES A.
DB 15951 PG 1134

29H510366
2842 TELEGRAPH RD
N/F
SOMMERS, MICHAEL A.
DB 11819 PG 829

29H510410
2838 TELEGRAPH RD
N/F
GODFREY, MARIAN
DB 11699 PG 1816

29H510454
2834 TELEGRAPH RD
N/F
CARBO, MARK N.
DB 8205 PG 2164

29H510704
2830 TELEGRAPH RD
N/F
CRAIG, RICHARD H.
DB 18323 PG 5102

SIGNING SHEETS
SHEET 2 OF 68

LAYOUT	NS	01/2025
DRAWN	SMC	01/2025
REVIEWED	DJK	01/2025

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STATE OF MISSOURI
DENNIS J. KOSCIELSKI
NUMBER PE-2005000712
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED
7/25/2025

ROUTE	STATE
231	MO
DISTRICT	SHEET NO.
SL	351

COUNTY
ST. LOUIS

JOB NO.
J6S3631

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION	DATE

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MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
MoDOT
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

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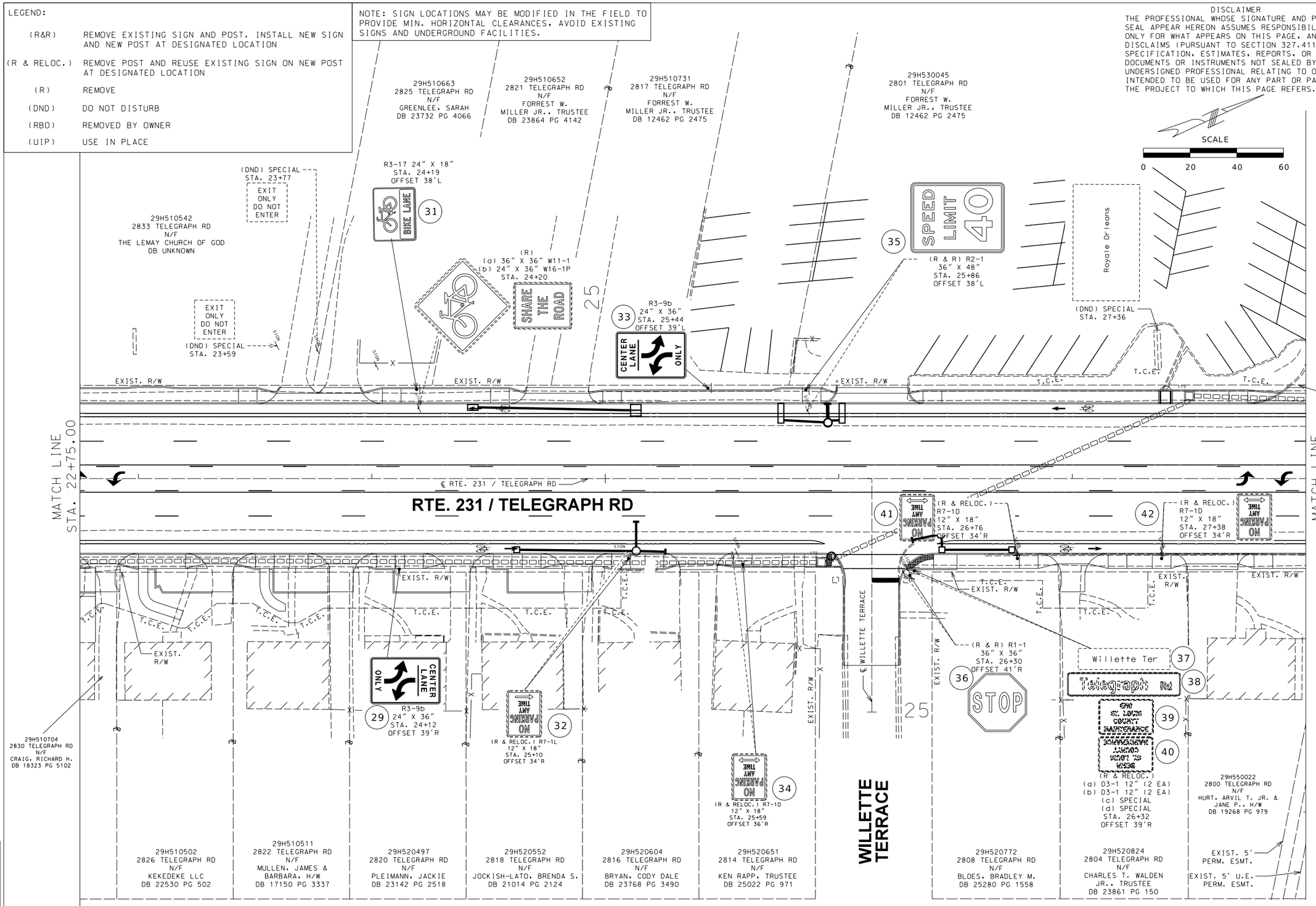
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Professional Engineer 001632
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LEGEND:

(R&R)	REMOVE EXISTING SIGN AND POST. INSTALL NEW SIGN AND NEW POST AT DESIGNATED LOCATION
(R & RELOC.)	REMOVE POST AND REUSE EXISTING SIGN ON NEW POST AT DESIGNATED LOCATION
(R)	REMOVE
(DND)	DO NOT DISTURB
(RBO)	REMOVED BY OWNER
(UIP)	USE IN PLACE

NOTE: SIGN LOCATIONS MAY BE MODIFIED IN THE FIELD TO PROVIDE MIN. HORIZONTAL CLEARANCES, AVOID EXISTING SIGNS AND UNDERGROUND FACILITIES.

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SIGNING SHEETS
SHEET 3 OF 68

LAYOUT	NS	01/2025
DRAWN	SMC	01/2025
REVIEWED	DJK	01/2025

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED 7/25/2025

ROUTE	STATE
231	MO
DISTRICT	SHEET NO.
SL	352

COUNTY ST. LOUIS
JOB NO. J6S3631
CONTRACT ID.
PROJECT NO.
BRIDGE NO.

DESCRIPTION	DATE

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

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SIGNAGE LEGEND:

(R&R)	REMOVE EXISTING SIGN AND POST. INSTALL NEW SIGN AND NEW POST AT DESIGNATED LOCATION
(R & RELOC.)	REMOVE POST AND REUSE EXISTING SIGN ON NEW POST AT DESIGNATED LOCATION
(R)	REMOVE
(DND)	DO NOT DISTURB
(RBO)	REMOVED BY OWNER
(UIP)	USE IN PLACE

SCALE
0 20 40 60

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29H530045
2801 TELEGRAPH RD
N/F
FORREST W. MILLER JR., TRUSTEE
DB 12462 PG 2475

29H541353
2765 TELEGRAPH RD
N/F
ST. LUKES UNITED METHODIST CHURCH OF ST. LOUIS
DB 8446 PG 1343

29H541364
2753 TELEGRAPH RD
N/F
ST. LUKES UNITED METHODIST CHURCH OF ST. LOUIS
DB 8446 PG 1364

St. Luke's United Methodist Church

(DND) SPECIAL
STA. 30+06

43 METRO BUS

44 NO PARKING ANY TIME

R & RELOC.
(a) SPECIAL 16" X 20"
(b) R7-1R 12" X 18"
STA. 28+65
OFFSET 39'L

53 R3-9b
24" X 36"
STA. 30+42
OFFSET 38'L
CENTER LANE ONLY

T.C.E.

(DND) SPECIAL
STA. 31+64

RE SELL IT SHOP

(DND) SPECIAL
STA. 32+36

St. Luke's United Methodist Church PreSchool

EXIST. PERM. 10' MSD ESMT.

EXIST. 10' PERM. DRAINAGE ESMT.

EXIST. PERM. MSD ESMT.

EXIST. R/W

EXIST. 7.5' PERM. U.E. ESMT.

EXIST. PERM. MSD ESMT.

℄ RTE. 231 / TELEGRAPH RD

RTE. 231 / TELEGRAPH RD

MATCH LINE
STA. 28+00.00

MATCHLINE
STA. 33+00.00

30

29H550022
2800 TELEGRAPH RD
N/F
HURT, ARVIL T. JR. & JANE P., H/W
DB 19268 PG 979

EXIST. 5' PERM. ESMT.

EXIST. 5' PERM. U.E. ESMT.

℄ BRILLIANT LN

BRILLIANT LN

29H541331
192 BRILLIANT LN
N/F
LECHNER FAMILY GROUP LLC
DB 23471 PG 94

45 (R & R) R1-1
36" X 36"
STA. 29+10
OFFSET 46'R
STOP

46 NO OUTLET

47 ONE WAY

48 Brilliant Ln

49 Telegraph Rd

50 END ST. LOUIS COUNTY MAINTENANCE

51 BEGIN ST. LOUIS COUNTY MAINTENANCE

(R & RELOC.)
(a) 36" X 9" W14-2aL
(b) 36" X 9" W14-2aR
(c) D3-1 12" (2 EA)
(d) D3-1 12" (2 EA)
(e) SPECIAL
(f) SPECIAL
STA. 29+11
OFFSET 42'R

52 R3-9b
24" X 36"
STA. 29+99
OFFSET 40'R
CENTER LANE ONLY

(UIP)
16" X 20"
STA. 29+66

29H541067
2758 TELEGRAPH RD
N/F
SCHWER, RICKY & TAMARA, H/W
DB 23614 PG 833

29H541078
2756 TELEGRAPH RD
N/F
SCHWER, RICK A. & TAMARA D., H/W
DB 9540 PG 1950

29H540220
2752 TELEGRAPH RD
N/F
SCHWER, RICK A. & TAMARA D., H/W
DB 16162 PG 2082

29H541287
2744 TELEGRAPH RD
N/F
SCHWER, RICK A. & TAMARA D., H/W
DB 16162 PG 2005

LAYOUT	NS	01/2025
DRAWN	SMC	01/2025
REVIEWED	DJK	01/2025

STATE OF MISSOURI
DENNIS J. KOSCIELSKI
NUMBER PE-2005000712
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED: 7/25/2025

ROUTE	STATE
231	MO
DISTRICT	SHEET NO.
SL	353

COUNTY: ST. LOUIS
JOB NO.: J6S3631
CONTRACT ID.:
PROJECT NO.:
BRIDGE NO.:

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

DATE	DESCRIPTION

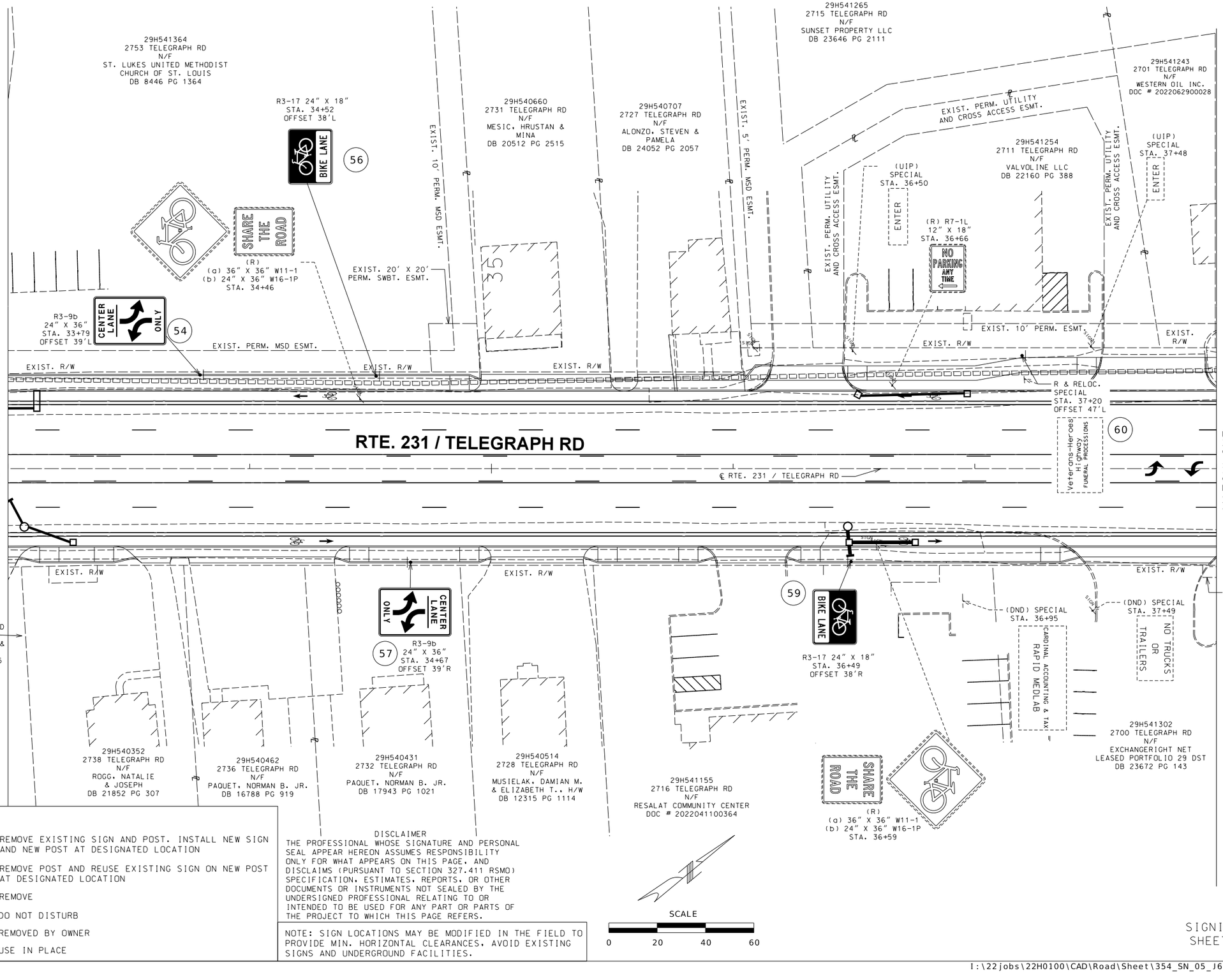
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SIGNING SHEETS
SHEET 4 OF 68

I:\22jobs\22H0100\CAD\Road\Sheet\353_SN_04_J6S3631_I20.dgn



LEGEND:

(R&R)	REMOVE EXISTING SIGN AND POST. INSTALL NEW SIGN AND NEW POST AT DESIGNATED LOCATION
(R & RELOC.)	REMOVE POST AND REUSE EXISTING SIGN ON NEW POST AT DESIGNATED LOCATION
(R)	REMOVE
(DND)	DO NOT DISTURB
(RBO)	REMOVED BY OWNER
(UIP)	USE IN PLACE

LAYOUT	NS	01/2025
DRAWN	SMC	01/2025
REVIEWED	DJK	01/2025

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NOTE: SIGN LOCATIONS MAY BE MODIFIED IN THE FIELD TO PROVIDE MIN. HORIZONTAL CLEARANCES, AVOID EXISTING SIGNS AND UNDERGROUND FACILITIES.

SCALE
0 20 40 60

SIGNING SHEETS
SHEET 5 OF 68

STATE OF MISSOURI
DENNIS J. KOSCIELSKI
NUMBER PE-2005000712
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED: 7/25/2025

ROUTE	STATE
231	MO
DISTRICT	SHEET NO.
SL	354

COUNTY: ST. LOUIS
JOB NO.: J6S3631
CONTRACT ID.:
PROJECT NO.:
BRIDGE NO.:

DESCRIPTION	DATE

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
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LEGEND:

(R&R)	REMOVE EXISTING SIGN AND POST. INSTALL NEW SIGN AND NEW POST AT DESIGNATED LOCATION
(R & RELOC.)	REMOVE POST AND REUSE EXISTING SIGN ON NEW POST AT DESIGNATED LOCATION
(R)	REMOVE
(DND)	DO NOT DISTURB
(RBO)	REMOVED BY OWNER
(UIP)	USE IN PLACE

NOTE: SIGN LOCATIONS MAY BE MODIFIED IN THE FIELD TO PROVIDE MIN. HORIZONTAL CLEARANCES, AVOID EXISTING SIGNS AND UNDERGROUND FACILITIES.

SCALE
0 20 40 60

DISCLAIMER
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MATCHLINE STA. 38+00.00

MATCHLINE STA. 43+25.00

JEFFERSONIAN DR

JEFFERSON BARRACKS RD

RTE. 231 / TELEGRAPH RD

℄ RTE. 231 / TELEGRAPH RD

SPEED LIMIT 25

(UIP)
(a) 24" X 30" R2-1
(b) SPECIAL
(c) SPECIAL
STA. 35+67

SCHEDULED LANES SHIFT TO HERE

BEGIN ST. LOUIS COUNTY MAINTENANCE

(SIGN TO BE REMOVED BY MAINTENANCE PRIOR TO PROJECT)
(R) I9-1a
24" X 18"
STA. 38+06

MoDOT ADOPT-A-HIGHWAY Litter Cleanup
IN LOVING MEMORY OF
OUR OLDEST BROTHER
MR JUAN A BRADY SR

(DND) SPECIAL
STA. 39+36

PHILLIPS 66

29H541243
2701 TELEGRAPH RD
N/F
WESTERN OIL INC.
DOC # 2022062900028

EXIST. 10' PERM. ESMT.

EXIST. R/W

(R & RELOC.)
(a) 24" X 12" M4-5
(b) 24" X 24" M1-1
(c) 21" X 15" M6-1
STA. 40+54
OFFSET 51'L

T0 62
INTERSTATE MISSOURI 255 63
64

TENTATIVE R/W

(DND) SPECIAL
STA. 41+51

Cassalone's

28H221643
2651 TELEGRAPH RD
N/F
CM CASALONE
PROPERTIES I LLC
DB 20605 PG 1028

29H541111
2675 TELEGRAPH RD
N/F
CM CASALONE
PROPERTIES LLC
DB 20605 PG 1028

EXIST. 7' X 7' PERM. DRAINAGE ESMT.

(DND) SPECIAL
STA. 42+57

GENESIS

EXIST. R/W

T.C.E.

61

Jefferson Barracks Historic Site Civil War Museum

(R & RELOC.)
SPECIAL (2 EA)
STA. 39+98
OFFSET 46'R

MoDOT ADOPT-A-HIGHWAY Litter Cleanup
IN LOVING MEMORY OF
JASON M. REEVES
ALWAYS IN OUR HEARTS

(R) I9-1a
24" X 18"
STA. 38+35
(SIGN TO BE REMOVED BY MAINTENANCE PRIOR TO PROJECT)

29H541302
2700 TELEGRAPH RD
N/F
EXCHANGERIGHT NET
LEASED PORTFOLIO 29 DST
DB 23672 PG 143

JEFFERSON BARRACKS RD

℄ JEFFERSON BARRACKS RD

EXIST. 5' PERM. ESMT.

JACK IN THE BOX

(DND) SPECIAL
STA. 40+96

(UIP)
X" X X"
STA. 41+77

CENTER LANE ONLY

65

R3-9b
24" X 36"
STA. 42+22
OFFSET 35'R

29H541298
2666 TELEGRAPH RD
N/F
SHANE INVESTMENT
GROUP MISSOURI LLC
DB 25316 PG 3047

28H221744
2650 TELEGRAPH RD
N/F
2650 TELEGRAPH
BLDG. LLC
DB 21852 PG 307

EMO ST. LOUIS COUNTY MAINTENANCE

SCHEDULED LANES SHIFT TO HERE

(UIP)
(a) SPECIAL
(b) SPECIAL
STA. 40+88

35 40

SIGNING SHEETS
SHEET 6 OF 68

LAYOUT	NS	01/2025
DRAWN	SMC	01/2025
REVIEWED	DJK	01/2025

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STATE OF MISSOURI
DENNIS J KOSCIELSKI
NUMBER PE-2005000712
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED 7/25/2025
ROUTE 231 | STATE MO
DISTRICT SL | SHEET NO. 355
COUNTY ST. LOUIS
JOB NO. J6S3631
CONTRACT ID.
PROJECT NO.
BRIDGE NO.

DESCRIPTION	DATE

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MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

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(R & RELOC.)	REMOVE POST AND REUSE EXISTING SIGN ON NEW POST AT DESIGNATED LOCATION
(R)	REMOVE
(DND)	DO NOT DISTURB
(RBO)	REMOVED BY OWNER
(UIP)	USE IN PLACE

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SCALE 0 20 40 60

MATCHLINE STA. 43+25.00

MATCHLINE STA. 48+35.00

RTE. 231 / TELEGRAPH RD

28H221652 2641 TELEGRAPH RD N/F GVL PROPERTIES LLC DB 24350 PG 4369

28H221616 2635 TELEGRAPH RD N/F S & P LAND TRUST DB 21540 PG 2117

28H220273 2631 TELEGRAPH RD N/F BRADY, DEANNA D. DB 20605 PG 294

28H221625 2625 TELEGRAPH RD N/F RVB & ASSOCIATES LLC DB 10662 PG 2490

28H221634 2619 TELEGRAPH RD N/F RVB & ASSOCIATES LLC DB 12419 PG 212

28H221692 2611 TELEGRAPH RD N/F AMER LLC DB 18690 PG 2417

Loyalty Construction

(DND) SPECIAL STA. 42+69

GVL PLUMBING, LLC
CHARLES H. FIKE, TAX & ACCOUNTING SERVICES

(DND) SPECIAL STA. 45+33

MRT

(UIP) STA. 43+85

METRO BUS

(UIP) 16" X 20" STA. 43+34

382 R3-9b 24" X 36" STA. 45+02 OFFSET 44'L

CENTER LANE ONLY

R3-17 24" X 18" STA. 46+53 OFFSET 43'L

70 BIKE LANE

EXIST. PERM. DRAINAGE ESMT.

R3-8RR 30" X 30" STA. 51+49 OFFSET 30'L

72 ONLY ONLY

EXIST. R/W

TELEGRAPH RD

SIGN

45

50

55

EXIST. R/W

PERM. ESMT.

EXIST. R/W

EXIST. R/W T.C.E.

(DND) SPECIAL STA. 45+33

(UIP)
(a) D3-1 12" (2 EA)
(b) D3-1 12" (2 EA)
(c) SPECIAL
(d) SPECIAL
STA. 45+59

PAWN

(R & RELOC.) 16" X 20" STA. 46+62

METRO BUS

71 W12-1 36" X 36" STA. 47+29 OFFSET 7'R

28H310341 2598 TELEGRAPH RD N/F SASSCO LLC DB 18740 PG 564

28H310297 2608 TELEGRAPH RD N/F EXCELDA DEVELOPMENT COMPANY DB 5488 PG 13

28H220122 2612 TELEGRAPH RD N/F EXCELDA DEVELOPMENT COMPANY DB 5488 PG 13

R3-17 24" X 18" STA. 43+75 OFFSET 37'R

66 BIKE LANE

28H221744 2650 TELEGRAPH RD N/F 2650 TELEGRAPH BLDG. LLC DB 21852 PG 307

BETTY JEAN LN

Telegraph Rd

EMD ST. LOUIS COUNTY MAINTENANCE

68 STOP

(R & R) R1-1 36" X 36" STA. 45+31 OFFSET 43'R

NO OUTLET NO OUTLET

Laredo Ave

Kingston Dr

LAREDO AVE

(UIP)
(a) 36" X 9" W142aR
(b) 36" X 9" W142aL
(c) D3-1 12" (2 EA)
(d) D3-1 12" (2 EA)
(e) SPECIAL
(f) SPECIAL
STA. 55+59

28H311881 149 LAREDO AVE N/F LAREDO PROPERTIES LLC DB 17466 PG 2461

SIGNING SHEETS SHEET 7 OF 68

LAYOUT	NS	01/2025
DRAWN	SMC	01/2025
REVIEWED	DJK	01/2025

STATE OF MISSOURI DENNIS J KOSCIELSKI NUMBER PE-2005000712 PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED 7/25/2025

ROUTE	STATE
231	MO
DISTRICT	SHEET NO.
SL	356

COUNTY ST. LOUIS

JOB NO. J6S3631

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION	DATE

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

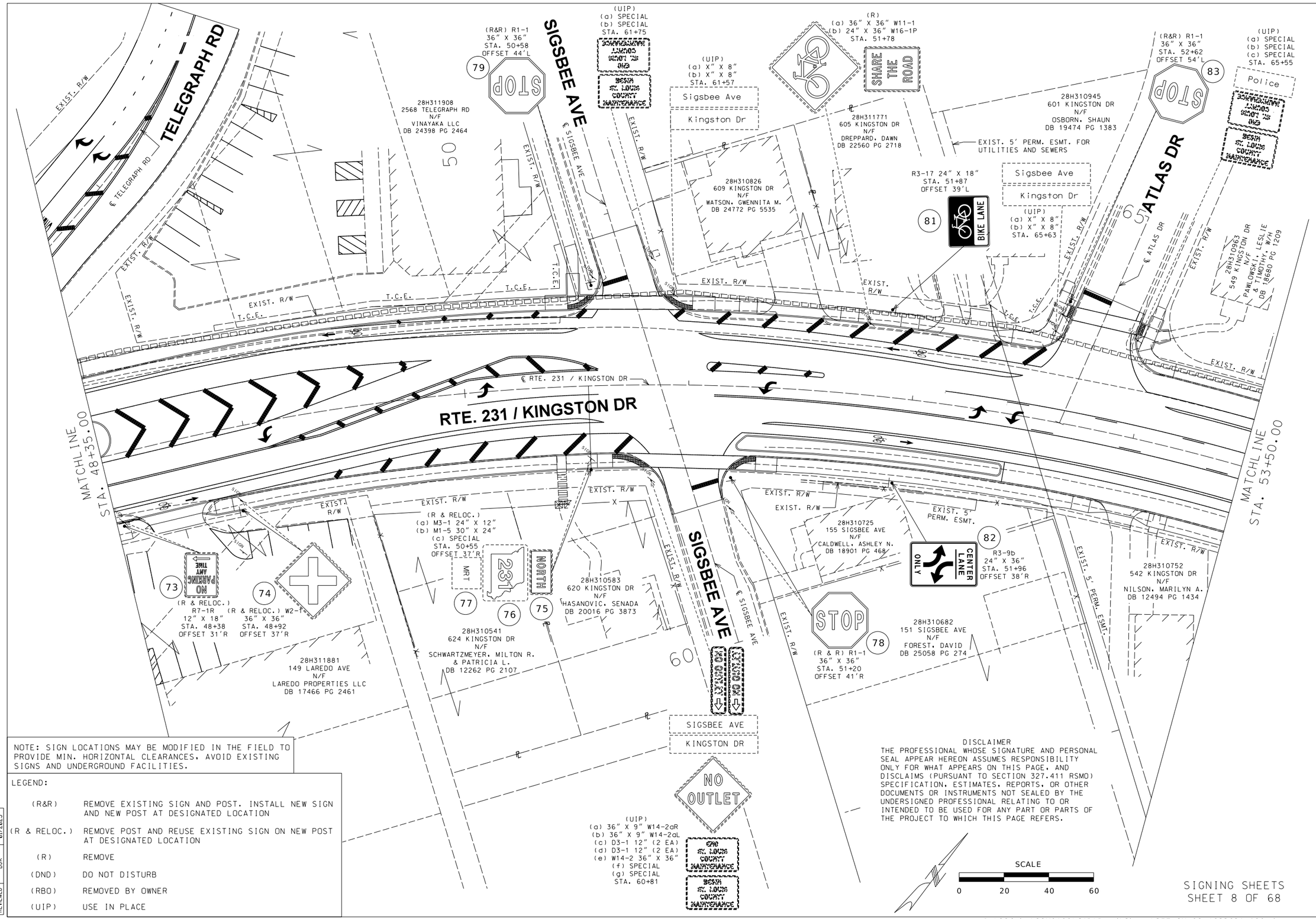
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(R)	REMOVE
(DND)	DO NOT DISTURB
(RBO)	REMOVED BY OWNER
(UIP)	USE IN PLACE

LAYOUT	NS	01/2025
DRAWN	SMC	01/2025
REVIEWED	DJK	01/2025

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SCALE

0 20 40 60

SIGNING SHEETS
SHEET 8 OF 68

STATE OF MISSOURI
DENNIS J. KOSCIELSKI
NUMBER PE-2005000712
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED: 7/25/2025

ROUTE	STATE
231	MO
DISTRICT	SHEET NO.
SL	357

COUNTY: ST. LOUIS

JOB NO.: J6S3631

CONTRACT ID.:

PROJECT NO.:

BRIDGE NO.:

DATE	DESCRIPTION

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SIGNAGE LEGEND:

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SCALE
0 20 40 60

RTE. 231 / KINGSTON DR

MATCHLINE STA. 53+50.00

MATCHLINE STA. 58+50.00

GENEVA DR

SHETLAND DR

28H311001 545 KINGSTON DR N/F CELESLIE PROPERTIES LLC DOC # 2022061300354

28H311045 541 KINGSTON DR N/F TIMOTHY A. WOODBURN JR., TRUSTEE DB 24339 PG 468

28H311056 537 KINGSTON DR N/F WICK, LORETTA DB 23316 PG 2125

28H311067 533 KINGSTON DR N/F MIDDLETON, JEFF & ELLA, H/W DB 10731 PG 2268

28H311089 529 KINGSTON DR N/F NOSER, TRACY L. & MYRICK, ERIC DB 18012 PG 1298

28H311090 523 KINGSTON DR N/F MOCUMBI, JADEN DOC # 2023010400375

28H311111 519 KINGSTON DR N/F MOONEY, DEBRA A. DB 10783 PG 1732

28H311122 515 KINGSTON DR N/F 515 KINGSTON LLC DB 23532 PG 4152

28H311166 509 KINGSTON DR N/F YOUNG, CHRISTINE J. DB 15085 PG 3007

28H311177 505 KINGSTON DR N/F NORRIS, WILLIAM L. DB 15210 PG 178

28H311694 501 KINGSTON DR N/F MORGADO, MARIA D. DB 21896 PG 2927

28H311199 465 KINGSTON DR N/F BERTCHUME, STEVE J. & ROSE M., H/W DB 14397 PG 1247

28H310752 542 KINGSTON DR N/F NILSON, MARILYN A. DB 12494 PG 1434

28H311852 540 KINGSTON DR N/F VOGT, CHRISTINE A. DB 17671 PG 112

28H310792 532 KINGSTON DR N/F CARRASQUEDO-DE LA CRUZ-MANJARREZ, JOSE L. & CASTILLO-GARCIA, BITIA, H/W DB 25336 PG 4089

28H310808 528 KINGSTON DR N/F CHIANTA, GAETANO DB 22690 PG 178

28H310817 524 KINGSTON DR N/F QUINN, MARY H. & CLARK, DOUGLAS M. DB 17826 PG 10

28H310835 506 KINGSTON DR N/F MOLNER, REBECCA E. DOC # 2023011100342

28H310853 504 KINGSTON DR N/F LUKING, LISA A. & MICHAEL R., W/H DB 21800 PG 1738

28H310862 500 KINGSTON DR N/F MITCHELL, HOLLY DB 23044 PG 1788

28H310880 472 KINGSTON DR N/F HINKELMAN, DANIEL I. & ERIN M., H/W DB 19230 PG 1483

28H310871 468 KINGSTON DR N/F TURNER, THOMAS E. & KATHLEEN M. DB 8086 PG 620

(R & RELOC.)
(a) D3-1 12" (2 EA)
(b) D3-1 12" (2 EA)
(c) SPECIAL
(d) SPECIAL
STA. 58+25
OFFSET 41'L

(UIP) SPECIAL
STA. 75+52

Police

93 Geneva Dr

94 Kingston Dr

95 SAINT LOUIS COUNTY MAINTENANCE

96 SAINT LOUIS COUNTY MAINTENANCE

(R&R) R1-1
36" X 36"
STA. 57+82
OFFSET 50'L
97

STOP

86 R3-9b
24" X 36"
STA. 55+04
OFFSET 38'L
CENTER LANE ONLY

EXIST. 2.5' PERM. ESMT. FOR SEWERS

EXIST. 10' PERM. ESMT. FOR SEWERS

EXIST. R/W

T.C.E.

98 METRO BUS

(R & RELOC.) SPECIAL
16" X 20"
STA. 58+42
OFFSET 37'L

(R)
(a) 36" X 36" W11-1
(b) 24" X 36" W16-1P
STA. 54+21
SHARE THE ROAD

85 BIKE LANE
R3-17 24" X 18"
STA. 54+57
OFFSET 37'R

87 R3-9b
24" X 36"
STA. 55+19
OFFSET 37'R
CENTER LANE ONLY

METRO BUS ZONE

NO PARKING BUS ZONE

(a) (UIP) 16" X 20"
(b) (R) R7-1D 12" X 18"
STA. 55+91

EXIST. 10' PERM. ESMT.

Police

(UIP) SPECIAL
STA. 70+40

88 STOP
(R&R) R1-1
36" X 36"
STA. 56+44
OFFSET 49'R

Shetland Dr 89

Kingston Dr 90

91 SAINT LOUIS COUNTY MAINTENANCE

92 SAINT LOUIS COUNTY MAINTENANCE

(R & RELOC.)
(a) D3-1 12" (2 EA)
(b) D3-1 12" (2 EA)
(c) SPECIAL
(d) SPECIAL
STA. 56+51
OFFSET 42'R

LAYOUT	NS	01/2025
DRAWN	SMC	01/2025
REVIEWED	DJK	01/2025

STATE OF MISSOURI
DENNIS J. KOSCIELSKI
NUMBER PE-2005000712
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED 7/25/2025

ROUTE	STATE
231	MO
DISTRICT	SHEET NO.
SL	358

COUNTY ST. LOUIS

JOB NO. J6S3631

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION	DATE

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SIGNING SHEETS
SHEET 9 OF 68

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(DND)	DO NOT DISTURB
(RBO)	REMOVED BY OWNER
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SCALE
0 20 40 60

28H311199
465 KINGSTON DR
N/F
BERTCHUME, STEVE J. & ROSE M., H/W
DB 14397 PG 1247

28H311210
461 KINGSTON DR
N/F
SADIQUALLAH, IHSANULLAH
DOC # 2023011900258

28H311221
453 KINGSTON DR
N/F
RAINEY, JARED
DB 23320 PG 2601

28H311243
447 KINGSTON DR
N/F
HORNBURG, JESSICA D.
DB 20447 PG 2190

28H311265
445 KINGSTON DR
N/F
MOELLER, JANET L.
DB 17979 PG 2103

28H311298
439 KINGSTON DR
N/F
SWINHART, WILLIAM M. & KAREN S., H/W
DB 12220 PG 585

28H311364
435 KINGSTON DR
N/F
MORRISON, RICHARD J. & LINDSAY, H/W
DB 21636 PG 1501

28H311403
431 KINGSTON DR
N/F
BUEHLER, BRIAN & NICOLE M., H/W
DB 17284 PG 744

28H311463
427 KINGSTON DR
N/F
427 KINGSTON DR LLC
DB 22508 PG 2146

28H320131
423 KINGSTON DR
N/F
ELITE PROPERTIES INVESTMENTS LLC
DB 21804 PG 633

28H320153
417 KINGSTON DR
N/F
SUBASIC, ENVER & SEDINA, H/W
DB 24624 PG 4975

28H320175
411 KINGSTON DR
N/F
SUBASIC, ENVER & SEDINA, H/W
DB 16829 PG 343

R3-17 24" X 18"
STA. 60+93
OFFSET 37'L
102 BIKE LANE

105 R3-9b
24" X 36"
STA. 61+98
OFFSET 36'L
CENTER LANE ONLY

(R & R)
(a) M3-3 24" X 12"
(b) M1-5 30" X 24"
STA. 62+70
OFFSET 38'L
106 SOUTH 231 107

EXIST. R/W

MATCHLINE STA. 58+50.00

MATCHLINE STA. 63+50.00

RTE. 231 / KINGSTON DR

℄ RTE. 231 / KINGSTON DR

28H310871
468 KINGSTON DR
N/F
TURNER, THOMAS E. & KATHLEEN M.
DB 8086 PG 620

28H310909
464 KINGSTON DR
N/F
LEHMUTH, JACQUELINE M.
DB 10849 PG 2298

28H310927
460 KINGSTON DR
N/F
NEWTON, KALYN
DB 24236 PG 2913

28H310936
456 KINGSTON DR
N/F
VITALE, KAROLYN P.
DB 11555 PG 276

28H310954
448 KINGSTON DR
N/F
ROSE, KEVIN R. & WASHINGTON-ROSE, JENNIFER, H/W
DB 24716 PG 3768

28H310981
444 KINGSTON DR
N/F
WHEELER, AMY L.
DB 25156 PG 1834

28H311012
440 KINGSTON DR
N/F
WILLIS, PATTI M.
DB 17140 PG 2611

28H320043
436 KINGSTON DR
N/F
MAYNARD, KAREN
DB 16595 PG 1770

28H320054
428 KINGSTON DR
N/F
HECK, MICHAEL
DB 23160 PG 1007

28H320065
424 KINGSTON DR
N/F
ANDERSON, ROY M. & SHARON, H/W
DB 20802 PG 193

28H320076
420 KINGSTON DR
N/F
GORDON, WILLIAM R., & ROCHELLE K., H/W
DB 21088 PG 1505

28H320087
416 KINGSTON DR
N/F
RUSSELL, DONALD
DB 23146 PG 1430

28H320098
412 KINGSTON DR
N/F
RAMIC, HAKIJA & MUNIBA, H/W
DB 17233 PG 1892

99 R3-9b
24" X 36"
STA. 59+45
OFFSET 35'R
CENTER LANE ONLY

100 (R & R) R2-1
36" X 48"
STA. 60+23
OFFSET 35'R
SPEED LIMIT 40

103 TERREL DR
104 KINGSTON DR
(R & RELOC.)
(a) D3-1 12" (2 EA)
(b) D3-1 12" (2 EA)
STA. 61+24
OFFSET 38'R

TERREL DR
℄ TERREL DR

RESERVED PARKING
(UIP) R7-8
12" X 18"
STA. 80+41

Police

(UIP)
(a) SPECIAL
(b) SPECIAL
(c) SPECIAL
STA. 80+57
EMD ST. LOUIS COUNTY MAINTENANCE
SCHEDULED LANDS SHOT 75 WORK

416 STOP
(R&R) R1-1
36" X 36"
STA. 61+66
OFFSET 47'R

LAYOUT	NS	01/2025
DRAWN	SMC	01/2025
REVIEWED	DJK	01/2025

SIGNING SHEETS
SHEET 10 OF 68

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STATE OF MISSOURI
DENNIS J. KOSCIELSKI
NUMBER PE-2005000712
PROFESSIONAL ENGINEER

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ROUTE	STATE
231	MO
DISTRICT	SHEET NO.
SL	359

COUNTY
ST. LOUIS

JOB NO.
J6S3631

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION	DATE

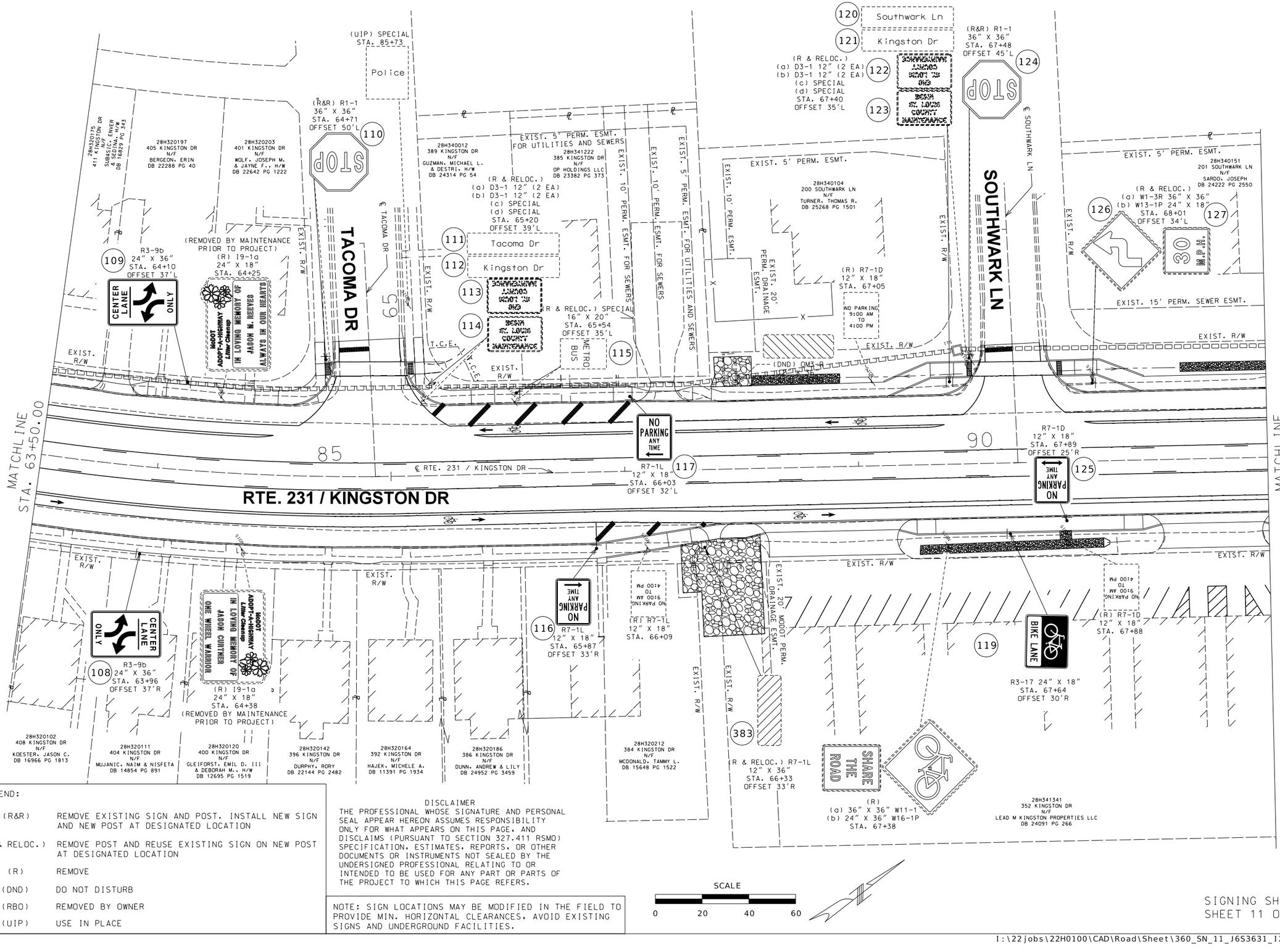
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SCALE
0 20 40 60

SIGNING SHEETS
SHEET 11 OF 68

LAYOUT	NS	01/2025
DRAWN	SMC	01/2025
REVIEWED	DJK	01/2025

STATE OF MISSOURI
DENNIS J. KOSCIELSKI
NUMBER PE-2005000712
PROFESSIONAL ENGINEER

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DATE PREPARED
7/25/2025

ROUTE	STATE
231	MO
DISTRICT	SHEET NO.
SL	360

COUNTY
ST. LOUIS

JOB NO.
J6S3631

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION	DATE

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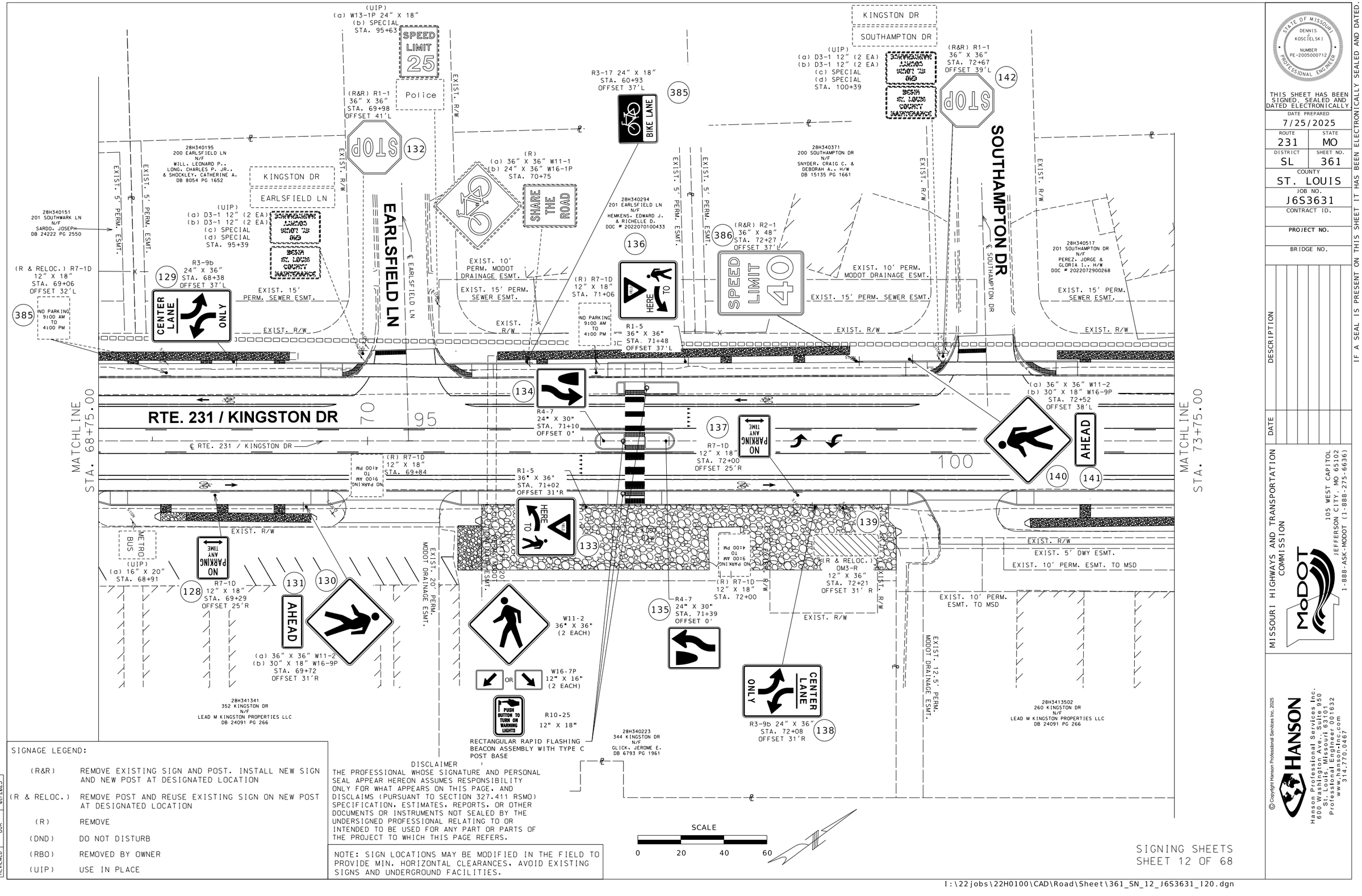
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DRAWN	SMC	01/2025
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SHEET 12 OF 68

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ROUTE	231
STATE	MO
DISTRICT	SL
SHEET NO.	361
COUNTY	ST. LOUIS
JOB NO.	J6S3631
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

DESCRIPTION | DATE

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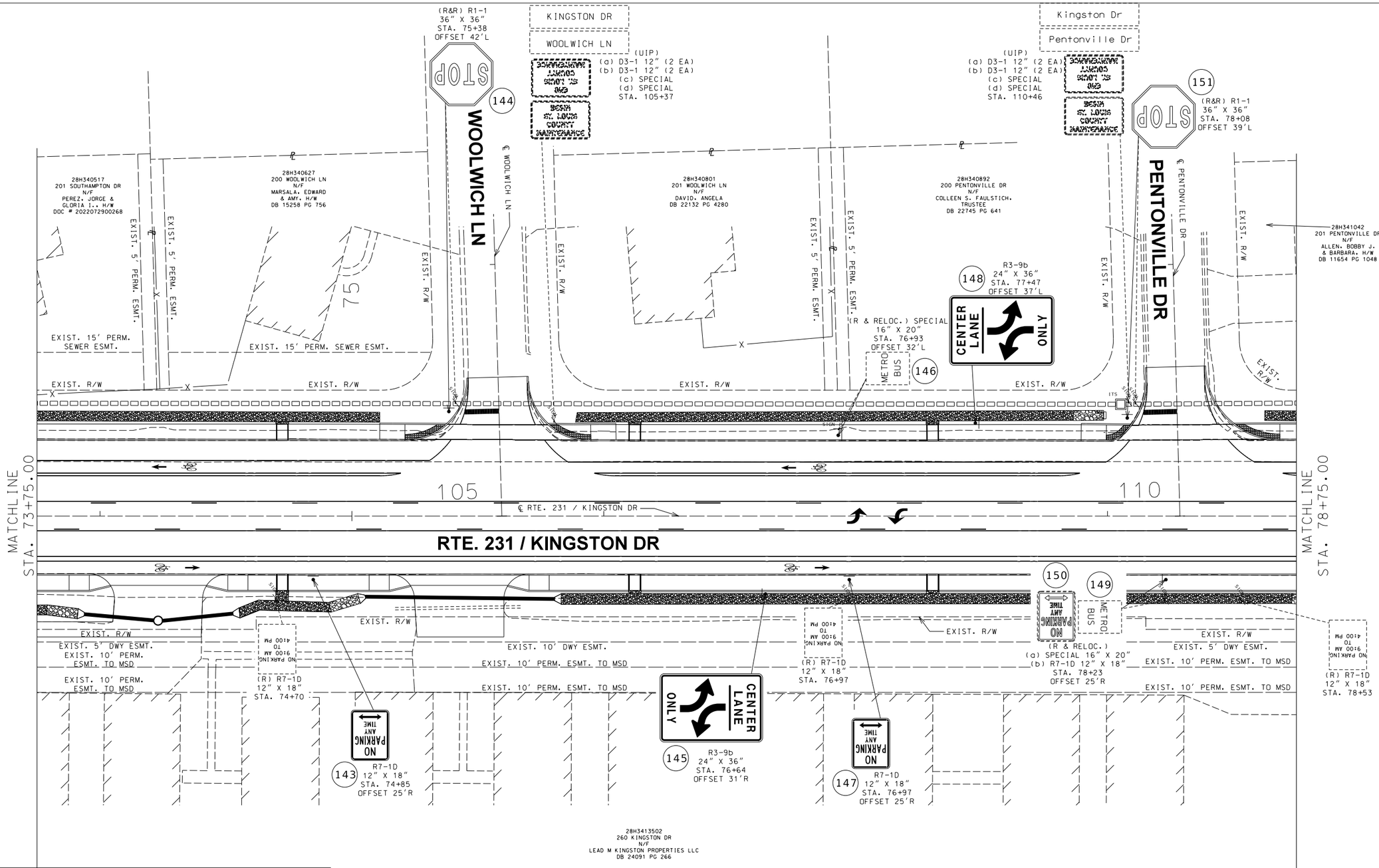
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(R)	REMOVE
(DND)	DO NOT DISTURB
(RBO)	REMOVED BY OWNER
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231	MO
DISTRICT	SHEET NO.
SL	362

COUNTY
ST. LOUIS

JOB NO.
J6S3631

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DATE	DESCRIPTION

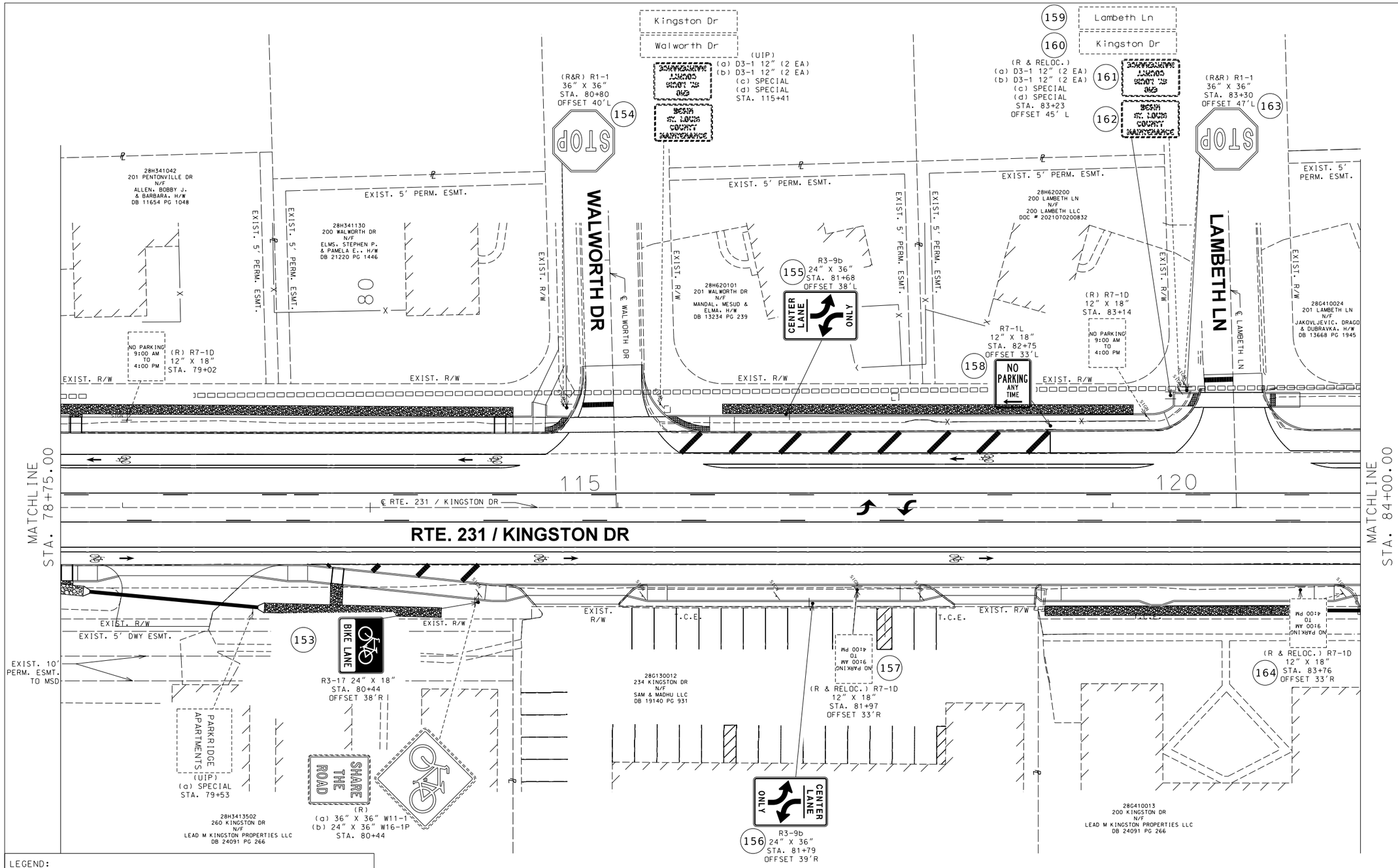
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COUNTY
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PROJECT NO.

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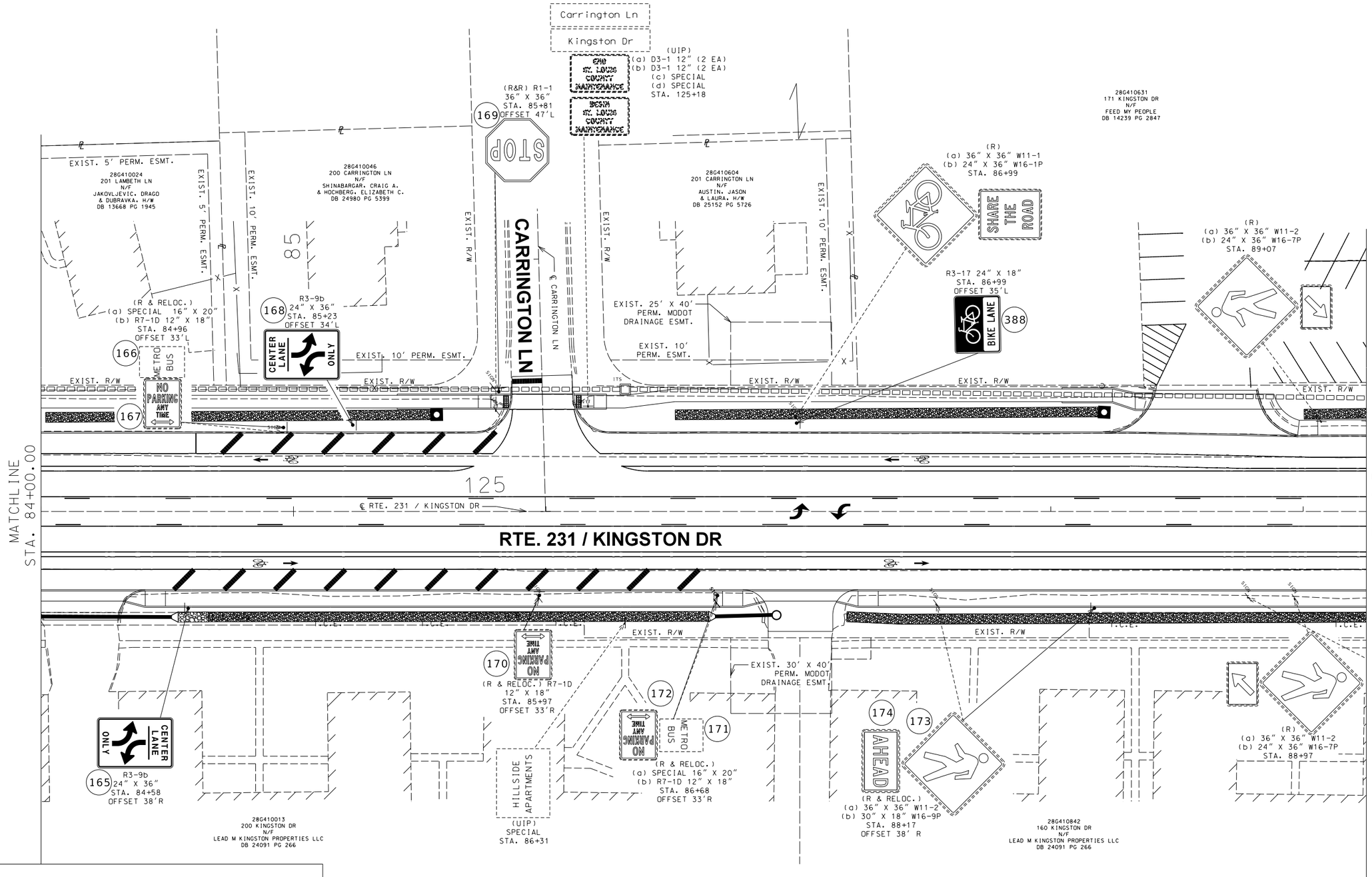
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SHEET 15 OF 68

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231	MO
DISTRICT	SHEET NO.
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COUNTY
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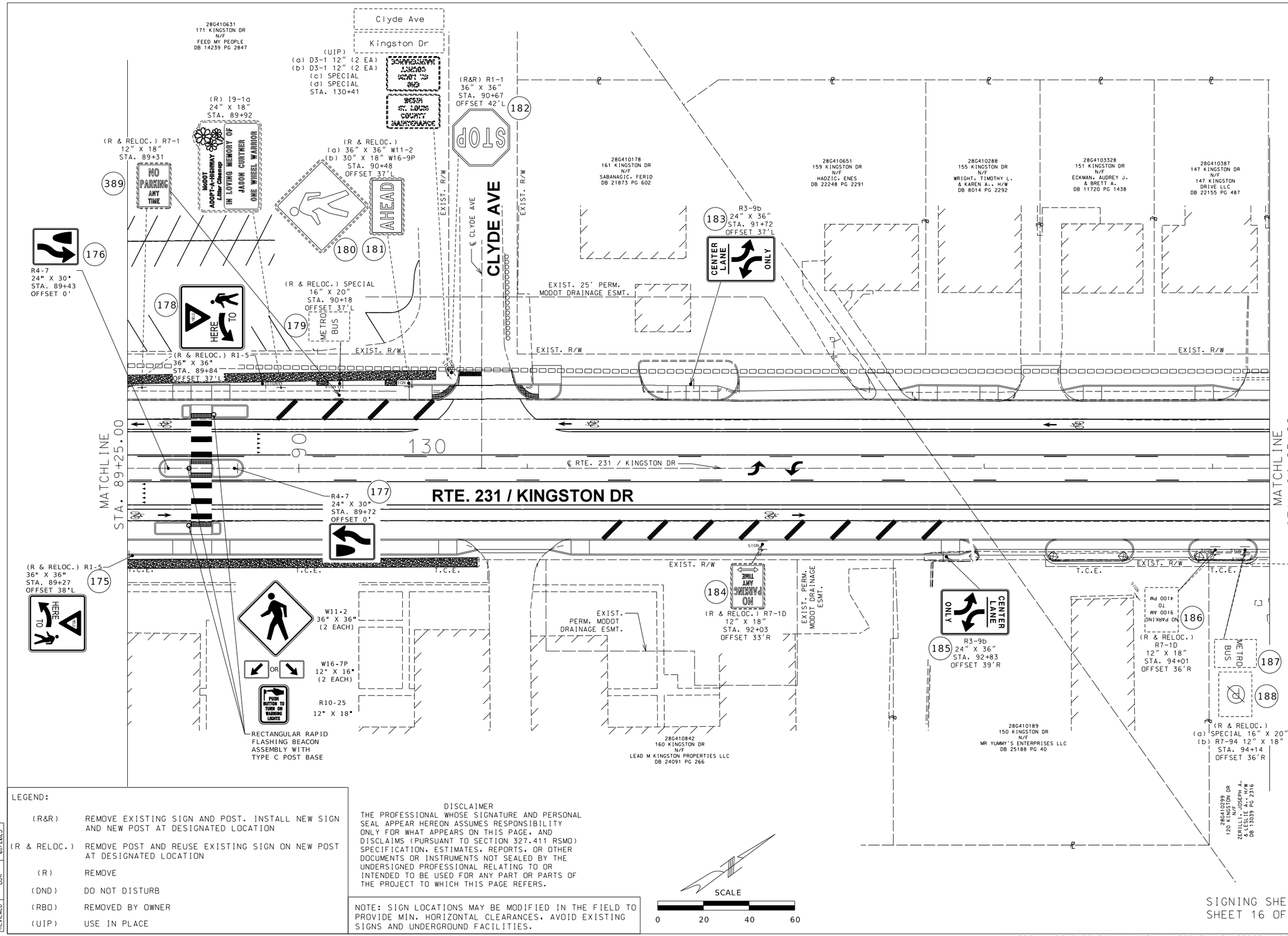
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SHEET 16 OF 68

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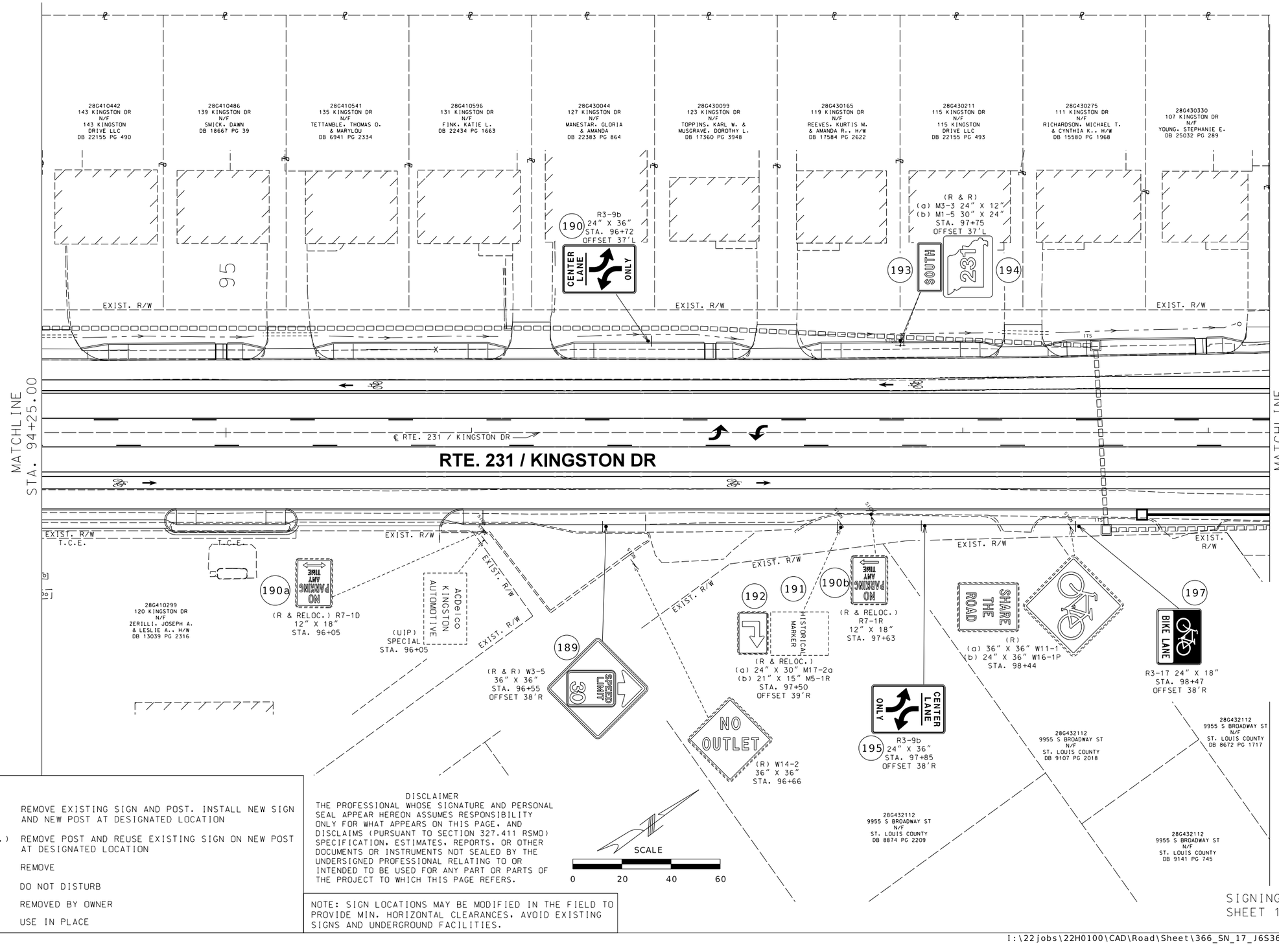
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SHEET 17 OF 68

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DENNIS J KOSCIELSKI
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231	MO
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SL	366

COUNTY
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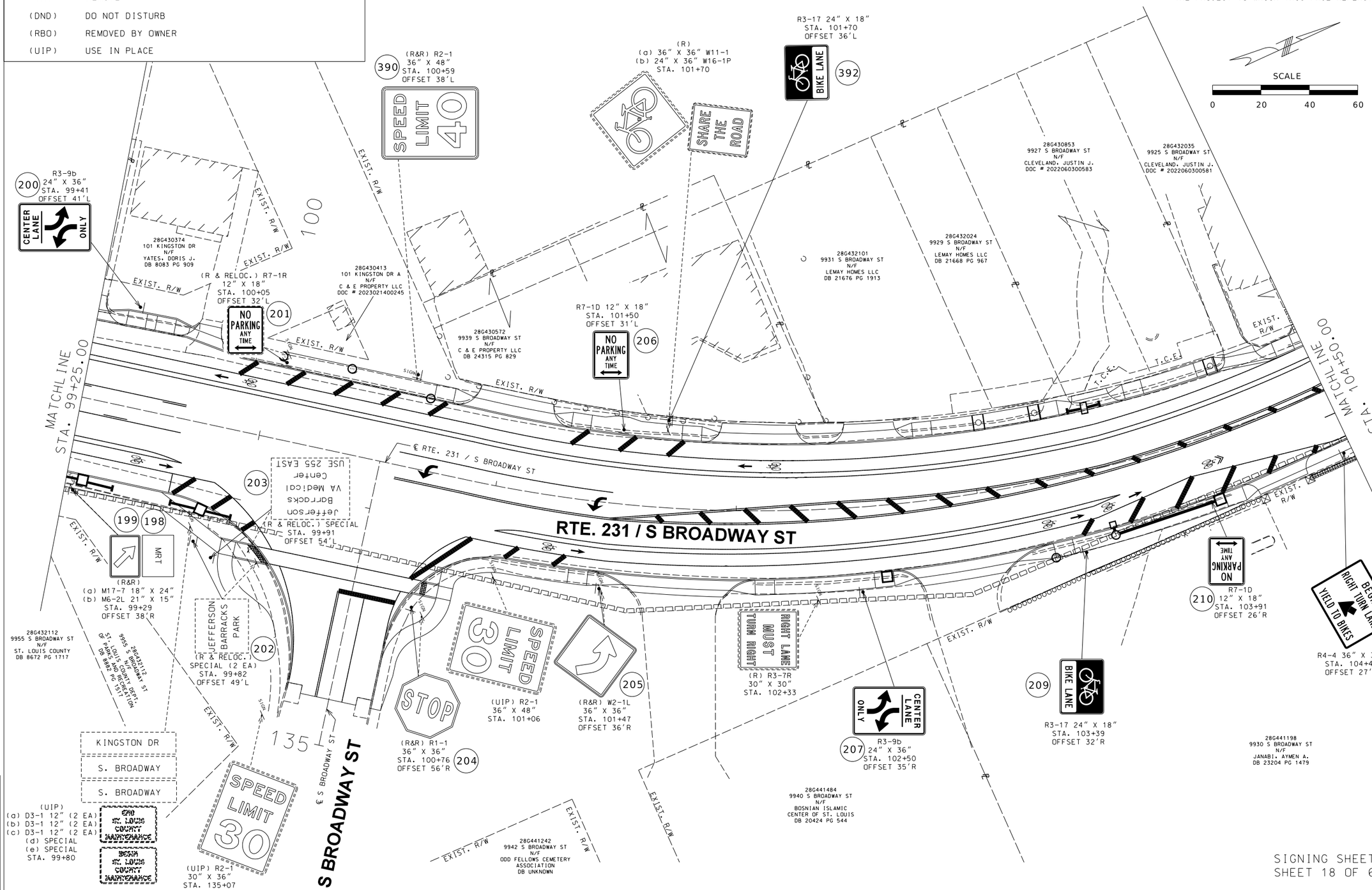
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DISTRICT	SHEET NO.
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COUNTY ST. LOUIS
JOB NO. J6S3631
CONTRACT ID.
PROJECT NO.
BRIDGE NO.

DESCRIPTION	DATE

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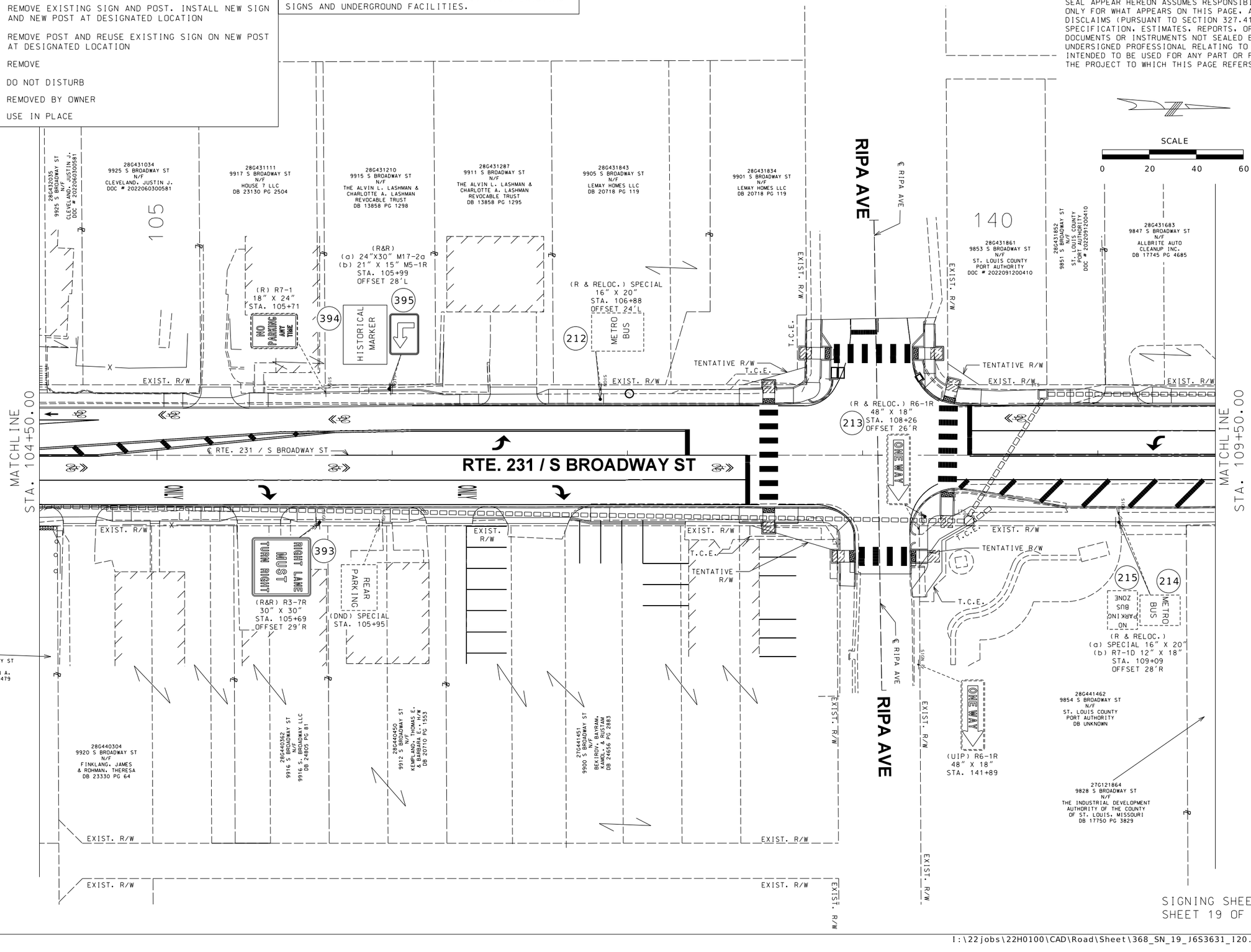
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SHEET 19 OF 68

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231	MO
DISTRICT	SHEET NO.
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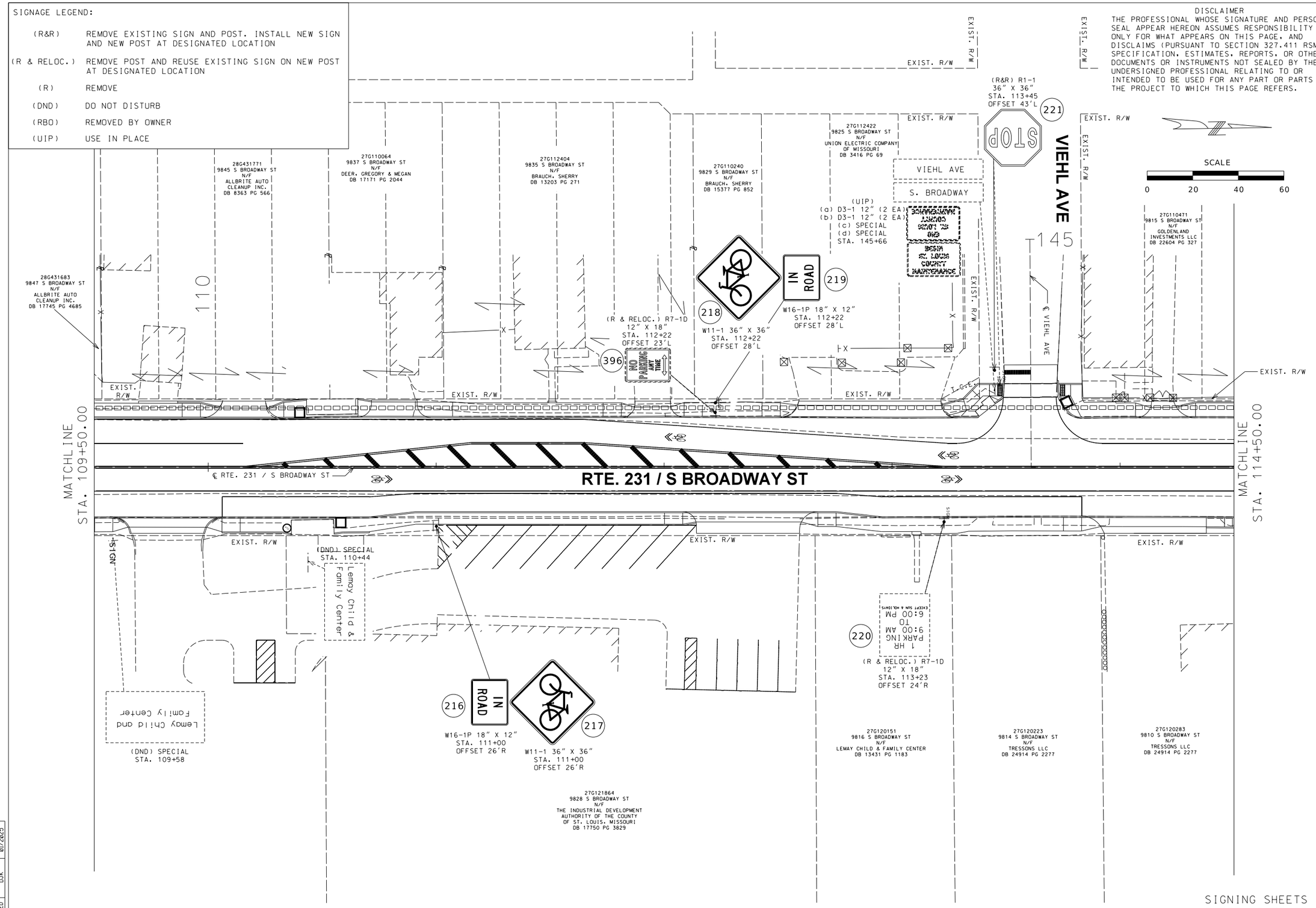
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SHEET 20 OF 68

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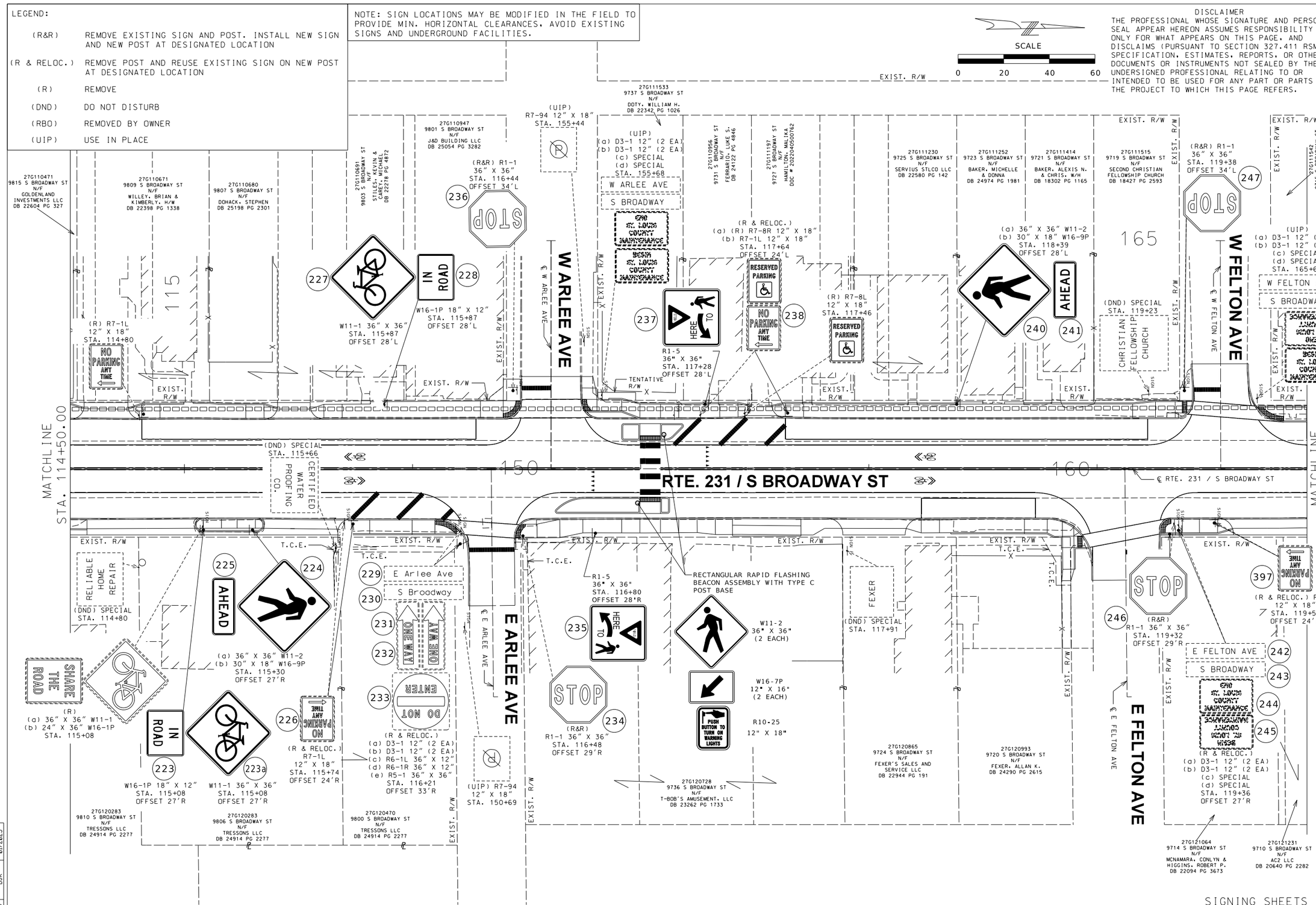
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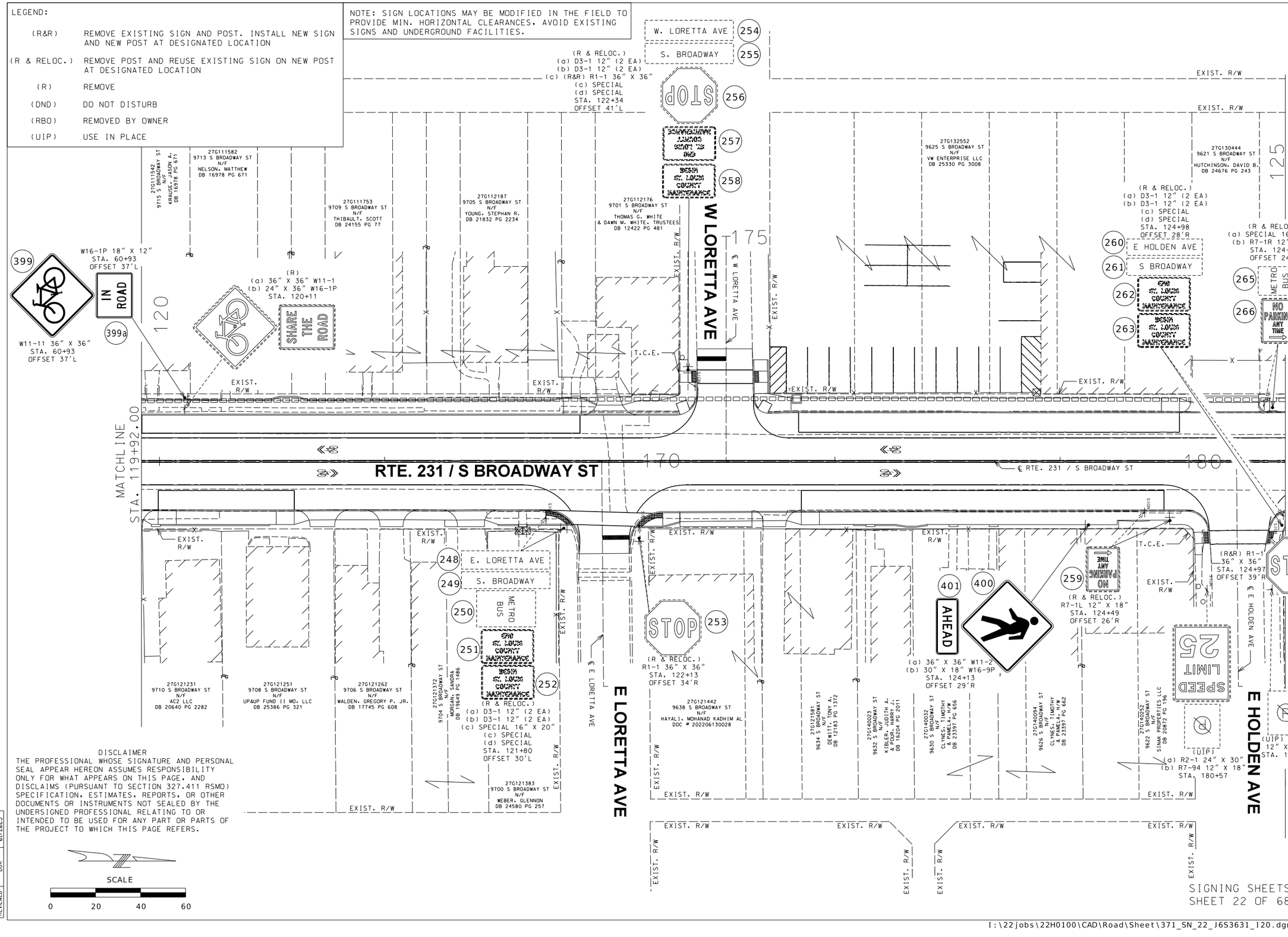
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SHEET 21 OF 68

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SCALE

0 20 40 60

LAYOUT	NS	01/2025
DRAWN	SMC	01/2025
REVIEWED	DJK	01/2025

STATE OF MISSOURI
DENNIS J. KOSCIELSKI
NUMBER PE-2005000712
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED: 7/25/2025

ROUTE	STATE
231	MO
DISTRICT	SHEET NO.
SL	371

COUNTY: ST. LOUIS
JOB NO.: J6S3631
CONTRACT ID.:
PROJECT NO.:
BRIDGE NO.:

DESCRIPTION	DATE

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

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Professional Engineer 001632
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SIGNING SHEETS
SHEET 22 OF 68

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DATE PREPARED
7/25/2025

ROUTE	STATE
231	MO
DISTRICT	SHEET NO.
SL	372

COUNTY
ST. LOUIS

JOB NO.
J6S3631

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

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DATE	DESCRIPTION

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SCALE
0 20 40 60

W HOLDEN AVE
W VELMA AVE
E VELMA AVE
RTE. 231 / S BROADWAY ST

27G130444 9621 S BROADWAY ST N/F HUTCHINSON, DAVID B DB 24676 PG 243
27G130554 9615 S BROADWAY ST N/F SHAW, REGINA DB 16533 PG 213
27G130581 9613 S BROADWAY ST N/F VALENTINE INC DB 17044 PG 426
27G130774 9607 S BROADWAY ST N/F SMALL TOOLS LLC DB 23094 PG 1910
27G130811 9605 S BROADWAY ST N/F GENOVESE, GEORGE F. & DEBORAH, H/W DB 21366 PG 1761
27G130958 9603 S BROADWAY ST N/F KNIGHT, THOMAS DEWAYNE DB 18811 PG 1987
27G131030 100 W VELMA AVE N/F M&M DEVELOPMENT LLC DB 20316 PG 1668
27G131131 9535 S BROADWAY ST N/F 9535 BROADWAY LLC DB 18622 PG 1394
27G131443 9527 S BROADWAY ST N/F DELUXE CLEANING SERVICES INC DB 24310 PG 240
27G140292 9620 S BROADWAY ST N/F ELKING, SARKEESE J. & THERESA M., H/W DB 19566 PG 1005
27G140436 9612 S BROADWAY ST N/F ELKING, SARKEESE DB 22691 PG 737
27G140629 9604 S BROADWAY ST N/F EDWARD C. WETTEROFF REVOCABLE LIVING TRUST. WETTEROFF, E. BRIAN. ROBERT J.. DANIEL P.. ET AL DB 16957 PG 66
27G141260 9610 S BROADWAY ST N/F EDWARD C. WETTEROFF REVOCABLE LIVING TRUST. WETTEROFF, E. BRIAN. ROBERT J.. DANIEL P.. ET AL DB 16957 PG 66
27G140692 9600 S BROADWAY ST N/F 9600 S. BROADWAY LLC DB 16292 PG 68
27G140702 9534 S BROADWAY ST N/F HUTCHINSON, DAVID H. DB 13569 PG 2518
27G142104 9524 S BROADWAY ST N/F CLASSIC KITCHEN AND BATH INC DB 6852 PG 1603 & DB 8150 PG 0002
27G141251 9520 S BROADWAY ST N/F JESS-LIN PROPERTIES LLC DB 17192 PG 4521

(R & RELOC.) D3-1 12" (2 EA) (b) D3-1 12" (2 EA) (c) (R&R) R1-1 36" X 36" (d) SPECIAL (e) SPECIAL STA. 125+28 OFFSET 38'L — 270
W Holden Ave — 268
S Broadway — 269
END ST. LOUIS COUNTY MAINTENANCE — 271
BEGIN ST. LOUIS COUNTY MAINTENANCE — 272
(R) (a) 36" X 36" W11-2 (b) 24" X 36" W16-7P STA. 125+80
(DND) SPECIAL STA. 126+31 — Apple Extermination
(R & RELOC.) R1-5 36" X 36" STA. 126+37 OFFSET 29'L — 273
(a) 36" X 36" W11-2 (b) 30" X 18" W16-9P STA. 127+08 OFFSET 29'L — 275
AHEAD — 276
(R & RELOC.) R7-1D 12" X 18" STA. 127+13 OFFSET 24'L — 402
1 HR PARKING 7:00 AM TO 4:00 PM EXCEPT SUNDAYS & HOLIDAYS — 403
(UIP) (a) D3-1 12" (2 EA) (b) D3-1 12" (2 EA) (c) SPECIAL (d) SPECIAL STA. 195+70
W VELMA AVE
S BROADWAY
END ST. LOUIS COUNTY MAINTENANCE
BEGIN ST. LOUIS COUNTY MAINTENANCE
(R&R) R1-1 36" X 36" STA. 128+28 OFFSET 34'L — 285
(UIP) SPECIAL STA. 129+87 — WE FINANCE
(R & RELOC.) R1-5 36" X 36" STA. 125+21 OFFSET 29'R — 267
(R) (a) 36" X 36" W11-2 (b) 24" X 36" W16-7P STA. 125+67
RECTANGULAR RAPID FLASHING BEACON ASSEMBLY WITH TYPE C POST BASE
W11-2 36" X 36" (2 EACH)
W16-7P 12" X 16" (2 EACH)
R10-25 12" X 18"
PUSH BUTTON TO TURN ON WARNING LIGHTS
(R) R7-1L 12" X 18" STA. 125+99 — NO PARKING ANY TIME
(R & RELOC.) R7-1D 12" X 18" STA. 127+07 OFFSET 24'R — NO PARKING LOADING ZONE — 274
(R & RELOC.) SPECIAL STA. 127+22 OFFSET 23'R — LEMAY — 277
(UIP) R7-94 12" X 18" STA. 190+52
E. VELMA AVE — 278
S. BROADWAY — 279
STOP — 280
END ST. LOUIS COUNTY MAINTENANCE — 281
BEGIN ST. LOUIS COUNTY MAINTENANCE — 282
(R & RELOC.) (a) D3-1 12" (2 EA) (b) D3-1 12" (2 EA) (c) (R&R) R1-1 36" X 36" (d) SPECIAL (e) SPECIAL STA. 127+68 OFFSET 34'L
(R & RELOC.) (a) SPECIAL 16" X 20" (b) R7-1D 12" X 18" STA. 128+21 OFFSET 24'R — NO PARKING ANY TIME — 284 — BUS — 283
(R) (a) 36" X 36" W11-1 (b) 24" X 36" W16-1P STA. 129+45 — SHARE THE ROAD
W11-1 36" X 36" STA. 129+45 OFFSET 28'R — 287
W16-1P 18" X 12" STA. 129+45 OFFSET 28'R — IN ROAD — 287a

T.C.E.

LEGEND:

(R&R)	REMOVE EXISTING SIGN AND POST. INSTALL NEW SIGN AND NEW POST AT DESIGNATED LOCATION
(R & RELOC.)	REMOVE POST AND REUSE EXISTING SIGN ON NEW POST AT DESIGNATED LOCATION
(R)	REMOVE
(DND)	DO NOT DISTURB
(RBO)	REMOVED BY OWNER
(UIP)	USE IN PLACE

NOTE: SIGN LOCATIONS MAY BE MODIFIED IN THE FIELD TO PROVIDE MIN. HORIZONTAL CLEARANCES, AVOID EXISTING SIGNS AND UNDERGROUND FACILITIES.

SIGNING SHEETS
SHEET 23 OF 68

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SCALE
0 20 40 60

RTE. 231 / S BROADWAY ST

W ETTA AVE

W CARTWRIGHT AVE

E ETTA AVE

E CARTWRIGHT AVE

MATCHLINE STA. 130+00.00

MATCHLINE STA. 135+00.00

27G131443 9527 S BROADWAY ST N/F DELUXE CLEANING SERVICES INC DB 24310 PG 240

27G132561 9521 S BROADWAY ST N/F VALENTINE INC DB 16397 PG 22

27G131700 9515 S BROADWAY ST N/F SHIELDS, CHRISTOPHER V. & NICOLE L. DB 20803 PG 207

27G132855 9509 S BROADWAY ST N/F CBO PROPERTY GROUP LLC DB 23192 PG 3759

27G131939 9507 S BROADWAY ST N/F GUMPERT, DONALD & MARILYN Z. DB 20729 PG 599

27G132053 9503 S BROADWAY ST N/F MEYER, STEVE & BETH, H/W DB 19392 PG 1070

27G132174 9501 S BROADWAY ST N/F QUAITE, DANNY J. & JENNIFER N., H/W DB 20460 PG 3919

27G132251 9459 S BROADWAY ST N/F DEWITT, ELLEN A. & DONALD E., H/W DB 17522 PG 1419

27G132295 9457 S BROADWAY ST N/F VIRGIN, VAN V. DOC # 2023020800412

27G141251 9520 S BROADWAY ST N/F JESS-TIN PROPERTIES LLC DB 17192 PG 4521

27G142214 9518 S BROADWAY ST N/F LEMAY HOMES I LP DB 21574 PG 3830

27G141480 9510 S BROADWAY ST N/F SUCHMAN, DAVID L. & REBECCA A., H/W DB 20046 PG 1489

27G141491 9508 S BROADWAY ST N/F BENNEN, MITCHELL ET AL DB 23977 PG 1

27G141509 9506 S BROADWAY ST N/F CORIC, ELVIR & EDINA, H/W DB 15197 PG 3179

27G141655 9500 S BROADWAY ST N/F BOREK, THOMAS J. DB 23544 PG 3200

27G141701 9468 S BROADWAY ST N/F MEDLEY, LINDA & RUSSELL DB 13583 PG 670

27G141738 9466 S BROADWAY ST N/F BRIMICK PROPERTIES DB 7739 PG 758

27G141844 9462 S BROADWAY ST N/F RANDALL, JEFFREY K. & REGINA E., H/W DB 17077 PG 3368

27G141893 9460 S BROADWAY ST N/F MO HOUSING & REDEVELOPMENT LLC DB 21348 PG 991

27G142030 9458 S BROADWAY ST N/F ODAY, JOHN ET AL DB 25412 PG 1953

(R) (a) 36" X 36" W11-2 (b) 24" X 36" W16-7P STA. 130+81

(UIP) SPECIAL STA. 131+11 — South Broadway LAUNDRY

(UIP) (a) D3-1 12" (2 EA) (b) D3-1 12" (2 EA) (c) (R&R) R1-1 36" X 36" STA. 131+21 OFFSET 34'L

(UIP) (a) R2-1 24" X 30" (b) SPECIAL (c) SPECIAL STA. 205+64

(a) 36" X 36" W11-2 (b) 30" X 18" W16-9P STA. 132+32 OFFSET 28'L

W11-1 36" X 36" STA. 132+71 OFFSET 28'L

W16-1P 18" X 12" STA. 132+71 OFFSET 28'L

(R&R) R1-1 36" X 36" STA. 134+15 OFFSET 31'L

R2-1 36"X48" STA. 134+01 OFFSET 24'R

(UIP) (a) D3-1 12" (2 EA) (b) D3-1 12" (2 EA) (c) SPECIAL (d) SPECIAL STA. 215+65

(R) R7-1R 12" X 18" STA. 133+13

(R) R1-5L 24" X 36" STA. 131+03

R1-5 36" X 36" STA. 131+09 OFFSET 28'L

R1-5 36" X 36" STA. 130+25 OFFSET 28'R

(R & RELOC.) (a) D3-1 12" (2 EA) (b) D3-1 12" (2 EA) (c) (R&R) R1-1 36" X 36" STA. 130+77 OFFSET 31'R

W11-2 36" X 36" (2 EACH)

W16-7P 12" X 16" (2 EACH)

R10-25 12" X 18"

RECTANGULAR RAPID FLASHING BEACON ASSEMBLY WITH TYPE C POST BASE

W16-1P 18" X 12" STA. 132+43 OFFSET 28'R

W11-1 36" X 36" STA. 132+43 OFFSET 28'R

(R & RELOC.) (a) W1-1R 36" X 36" (b) W13-1P 24" X 18" STA. 134+33 OFFSET 28'R

(UIP) (a) D3-1 12" (2 EA) (b) D3-1 12" (2 EA) (c) (R&R) R1-1 36" X 36" (d) SPECIAL (e) SPECIAL STA. 133+44 OFFSET 33'R

(R) R7-1D 12" X 18" STA. 134+01

(R & RELOC.) R7-1D 12" X 18" STA. 134+76 OFFSET 24'R

(R&R) R7-1D 12" X 18" STA. 134+76 OFFSET 24'R

SPEED LIMIT 25

SPEED LIMIT 30

STOP

IN ROAD

AHEAD

HERE TO

TURNING VEHICLES

PUSH BUTTON TO TURN ON WARNING LIGHTS

NO PARKING ANY TIME

2ND ST. LOUIS COUNTY MAINTENANCE BEGIN ST. LOUIS COUNTY MAINTENANCE

E. ETTA AVE S. BROADWAY

S BROADWAY E. CARTWRIGHT AVE

LEGEND:

(R&R)	REMOVE EXISTING SIGN AND POST. INSTALL NEW SIGN AND NEW POST AT DESIGNATED LOCATION
(R & RELOC.)	REMOVE POST AND REUSE EXISTING SIGN ON NEW POST AT DESIGNATED LOCATION
(R)	REMOVE
(DND)	DO NOT DISTURB
(RBO)	REMOVED BY OWNER
(UIP)	USE IN PLACE

NOTE: SIGN LOCATIONS MAY BE MODIFIED IN THE FIELD TO PROVIDE MIN. HORIZONTAL CLEARANCES, AVOID EXISTING SIGNS AND UNDERGROUND FACILITIES.

LAYOUT	NS	01/2025
DRAWN	SMC	01/2025
REVIEWED	DJK	01/2025

SIGNING SHEETS
SHEET 24 OF 68

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STATE OF MISSOURI DENNIS J. KOSCIELSKI NUMBER PE-2005000712 PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED 7/25/2025

ROUTE	STATE
231	MO
DISTRICT	SHEET NO.
SL	373

COUNTY ST. LOUIS

JOB NO. J6S3631

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION	DATE

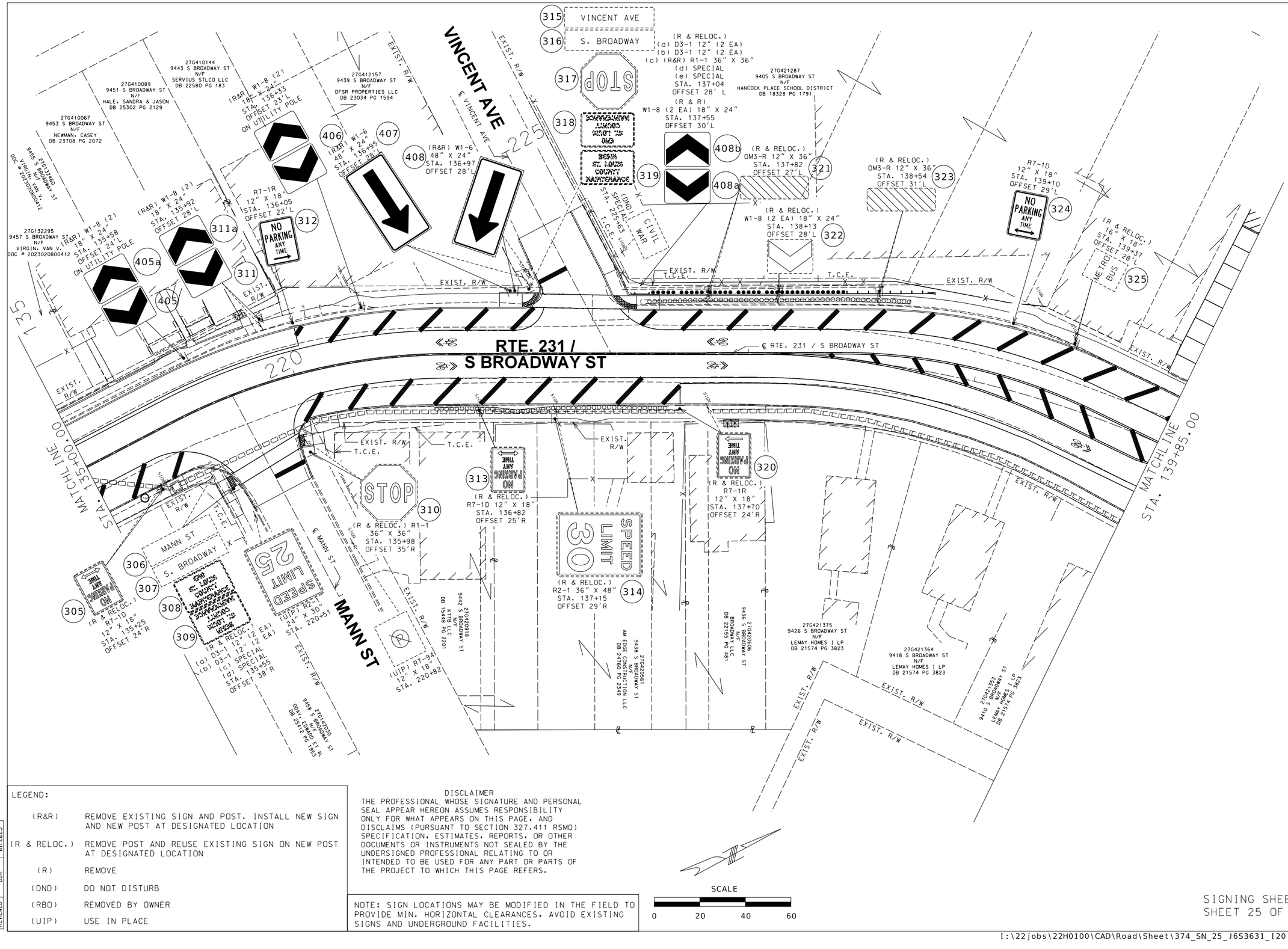
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MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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VINCENT AVE
S. BROADWAY
VINCENT AVE
STOP
(R & RELOC.)
(d) D3-1 12" (2 EA)
(b) D3-1 12" (2 EA)
(c) (R&R) R1-1 36" X 36"
(d) SPECIAL
(e) SPECIAL
STA. 137+04
OFFSET 28' L
(R & R)
W1-8 (2 EA) 18" X 24"
STA. 137+55
OFFSET 30'L
(R & RELOC.)
OM3-R 12" X 36"
STA. 137+82
OFFSET 27'L
(R & RELOC.)
W1-8 (2 EA) 18" X 24"
STA. 138+13
OFFSET 28'L
(R & RELOC.)
OM3-R 12" X 36"
STA. 138+54
OFFSET 31'L
R7-1D
12" X 18"
STA. 139+10
OFFSET 29'L
NO PARKING ANY TIME
(R & RELOC.)
16" X 18"
STA. 139+37
OFFSET 28'L
METRO BUS
(R&R) W1-8 (2)
18" X 24"
STA. 136+33
OFFSET 23'L
ON UTILITY POLE
(R&R) W1-6
48" X 24"
STA. 136+95
OFFSET 28'L
(R&R) W1-6
48" X 24"
STA. 136+97
OFFSET 28'L
R7-1R
12" X 18"
STA. 136+05
OFFSET 22'L
(R&R) W1-8 (2)
18" X 24"
STA. 135+92
OFFSET 28'L
(R&R) W1-8 (2)
18" X 24"
STA. 135+58
OFFSET 24'L
ON UTILITY POLE
(DND) SPECIAL
STA. 225+63
T.C.E. SIGN
CIVIL WAR
BEGIN ST. LOUIS COUNTY MAINTENANCE
END ST. LOUIS COUNTY MAINTENANCE
EXIST. R/W
T.C.E.
RTE. 231 /
S BROADWAY ST
℄ RTE. 231 / S BROADWAY ST
EXIST. R/W
T.C.E.
EXIST. R/W
T.C.E.
EXIST. R/W
STOP
(R & RELOC.)
R1-1
36" X 36"
STA. 135+98
OFFSET 35'R
(R & RELOC.)
R7-1D 12" X 18"
STA. 136+82
OFFSET 25'R
NO PARKING ANY TIME
(R & RELOC.)
R7-1R
12" X 18"
STA. 137+70
OFFSET 24'R
SPEED LIMIT 30
(R & RELOC.)
R2-1 36" X 48"
STA. 137+15
OFFSET 29'R
SPEED LIMIT 25
(UIP) R2-1
24" X 30"
STA. 220+51
(UIP) R7-94
12" X 18"
STA. 220+82
2ND LANE RIGHT TURN ONLY
(R & RELOC.)
R7-1D
12" X 18"
STA. 135+25
OFFSET 24'R
(R & RELOC.)
(a) D3-1 12" (2 EA)
(d) D3-1 12" (2 EA)
(c) SPECIAL
(d) SPECIAL
STA. 135+55
OFFSET 38'R
℄ MANN ST
MANN ST
S. BROADWAY
EXIST. R/W
EXIST. R/W
EXIST. R/W

LEGEND:

(R&R)	REMOVE EXISTING SIGN AND POST. INSTALL NEW SIGN AND NEW POST AT DESIGNATED LOCATION
(R & RELOC.)	REMOVE POST AND REUSE EXISTING SIGN ON NEW POST AT DESIGNATED LOCATION
(R)	REMOVE
(DND)	DO NOT DISTURB
(RBO)	REMOVED BY OWNER
(UIP)	USE IN PLACE

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SCALE
0 20 40 60

RTE. 231 / S BROADWAY ST

MILITARY RD

HOFFMEISTER AVE

E GOETZ AVE

MATCHLINE STA. 139+85.00

MATCHLINE STA. 145+25.00

(R&R) R1-1 36" X 36" STA. 141+53 OFFSET 39'L (334)

(R&R) (a) 36" X 36" W1-1L (b) 24" X 24" W13-1P STA. 141+55 OFFSET 25'L ON UTILITY POLE (409) (410)

(UIP) (a) D3-1 12" (2 EA) (b) D3-1 12" (2 EA) (c) SPECIAL (d) SPECIAL STA. 235+32
MILITARY RD
S. BROADWAY

(R & RELOC.) (a) SPECIAL (b) SPECIAL STA. 143+57 OFFSET 35'L (335) (336)

(R) SPECIAL STA. 144+04 (SHORT CUTTING TRAFFIC PROHIBITED)

W16-1P 18" X 12" STA. 144+56 OFFSET 28'L (339)

W11-1 36" X 36" STA. 144+56 OFFSET 28'L (340)

R3-7R 30" X 30" STA. 145+10 OFFSET 28'L (415)

(R&R) W11-1 18" X 12" STA. 140+67 OFFSET 45'R (332)

(R&R) W11-1 36" X 36" STA. 140+67 OFFSET 45'R (332a)

(R & RELOC.) R7-1 12" X 18" STA. 140+88 OFFSET 40'R (333)

(UIP) R7-94 12" X 18" STA. 230+26

(UIP) R7-94 12" X 18" STA. 230+27

(R & RELOC.) (a) R6-1L 48" X 18" (b) R6-1R 48" X 18" (c) D3-1 12" (2 EA) (d) D3-1 12" (2 EA) (e) SPECIAL (f) SPECIAL STA. 140+54 OFFSET 44'R (327) (326) (328) (329) (330) (331)

(DND) SPECIAL STA. 142+66 (CHEAP SMOKE)

(R) R3-7R 30" X 30" STA. 142+71 (RIGHT LANE MUST TURN RIGHT)

(R & RELOC.) (a) 16" X 20" (b) R7-D 12" X 18" STA. 140+40 OFFSET 40'R (338) (337)

(R & R) (a) M3-1 24" X 12" (b) M1-5 30" X 24" STA. 145+15 OFFSET 45'R (343) (342)

(R & R) R2-1 36" X 48" STA. 144+65 OFFSET 45'R (341)

27G421287 9405 S BROADWAY ST N/F HANCOCK PLACE SCHOOL DISTRICT DB 18328 PG 1791

27G420990 260 HOFFMEISTER AVE N/F 7-ELEVEN INC DB 19506 PG 1835

27G421311 9365 S BROADWAY ST N/F ALRUBAYE, ALI DB 24008 PG 2203

27G421276 9359 S BROADWAY ST N/F CCC LEMAY LLC DB 13351 PG 2075

27G421201 9400 S BROADWAY ST N/F JANM INC DB 22346 PG 4404

27G421188 9406 S BROADWAY ST N/F ALL TYPE HYDRAULIC REPAIR INC DB 8043 PG 1320

27G421221 9398 S BROADWAY ST N/F JANM INC DB 22346 PG 4400

27G421353 9410 S BROADWAY ST N/F LEMAY HOMES I LP DB 21574 PG 3823

27G510080 9214 S BROADWAY ST N/F METROPOLITAN ST. LOUIS SEWER DISTRICT DB 6305 PG 1288

EXIST. 10' PERM. ESMT. TO ST. LOUIS COUNTY WATER CO.

EXIST. 5' PERM. ESMT.

LAYOUT	NS	01/2025
DRAWN	SMC	01/2025
REVIEWED	DJK	01/2025

SIGNING SHEETS
SHEET 26 OF 68

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STATE OF MISSOURI
DENNIS J. KOSCIELSKI
NUMBER PE-2005000712
PROFESSIONAL ENGINEER

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DATE PREPARED 7/25/2025

ROUTE	STATE
231	MO
DISTRICT	SHEET NO.
SL	375

COUNTY ST. LOUIS
JOB NO. J6S3631
CONTRACT ID.
PROJECT NO.
BRIDGE NO.

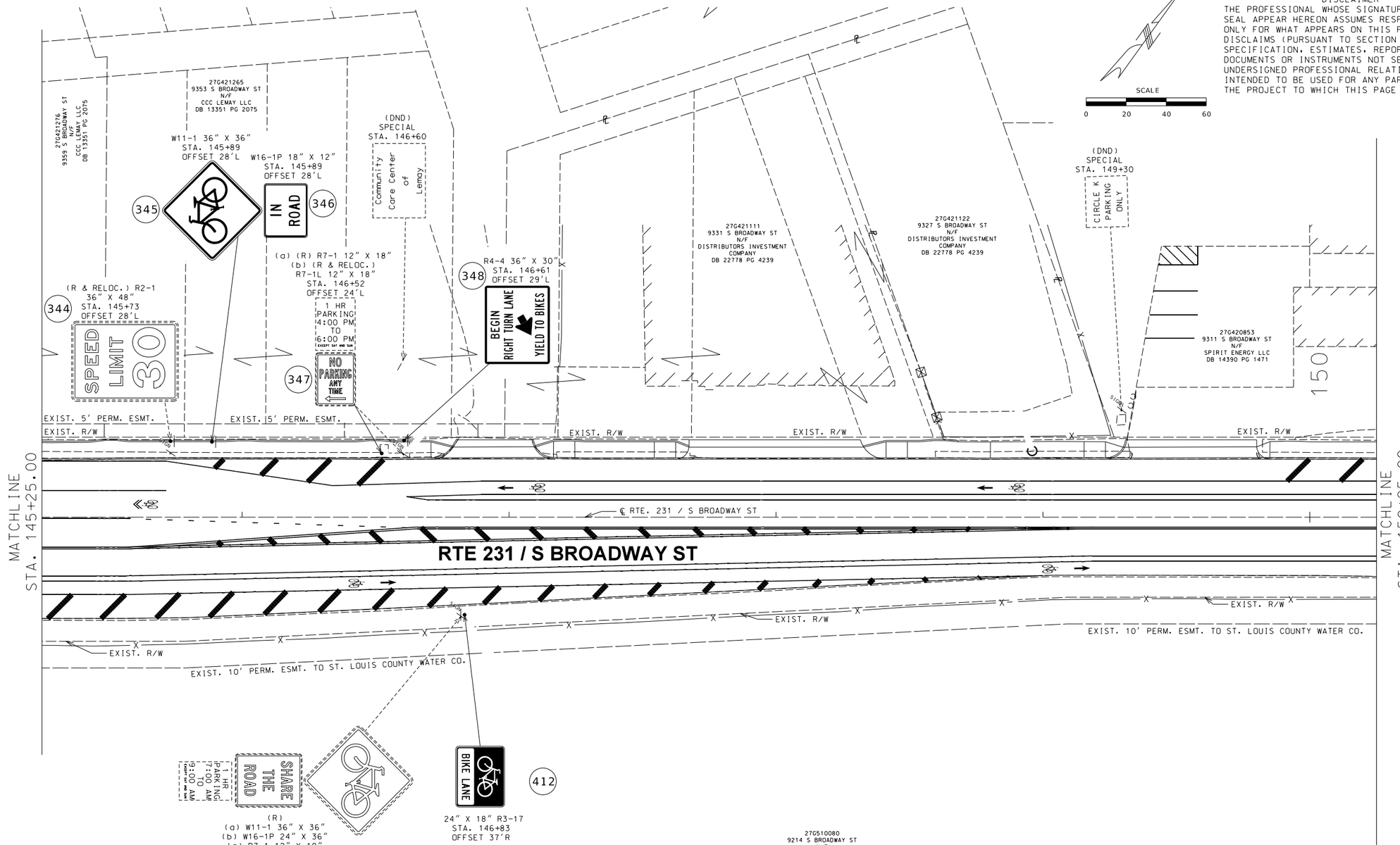
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DESCRIPTION	DATE

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(DND)	DO NOT DISTURB
(RBO)	REMOVED BY OWNER
(UIP)	USE IN PLACE

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REVIEWED	DJK	01/2025

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SHEET 27 OF 68

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STATE OF MISSOURI
DENNIS J KOSCIELSKI
NUMBER PE-2005000712
PROFESSIONAL ENGINEER

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DATE PREPARED	7/25/2025
ROUTE	231
STATE	MO
DISTRICT	SL
SHEET NO.	376
COUNTY	ST. LOUIS
JOB NO.	J6S3631
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

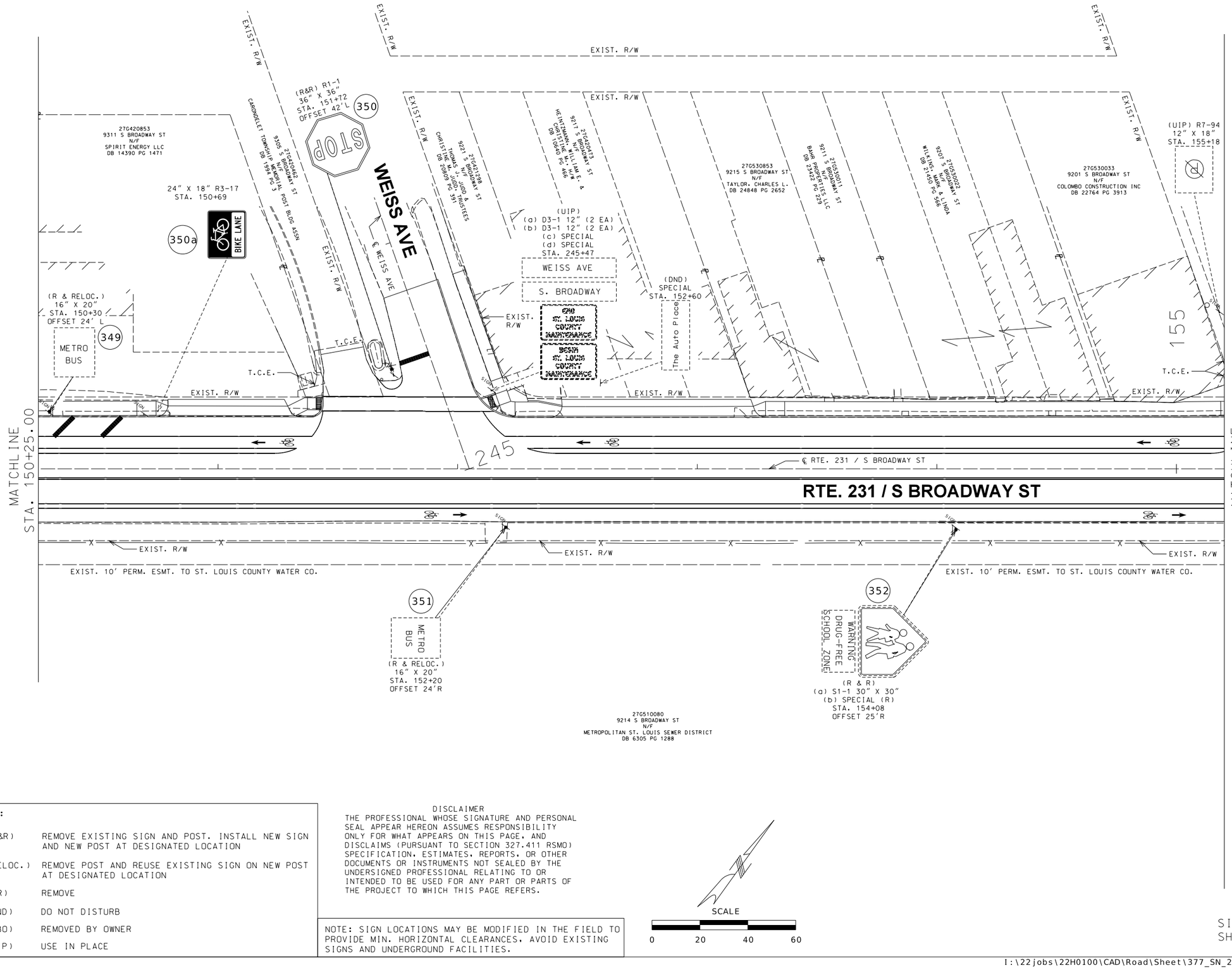
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SIGNING SHEETS
SHEET 28 OF 68

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ROUTE	STATE
231	MO
DISTRICT	SHEET NO.
SL	377

COUNTY
ST. LOUIS

JOB NO.
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BRIDGE NO.

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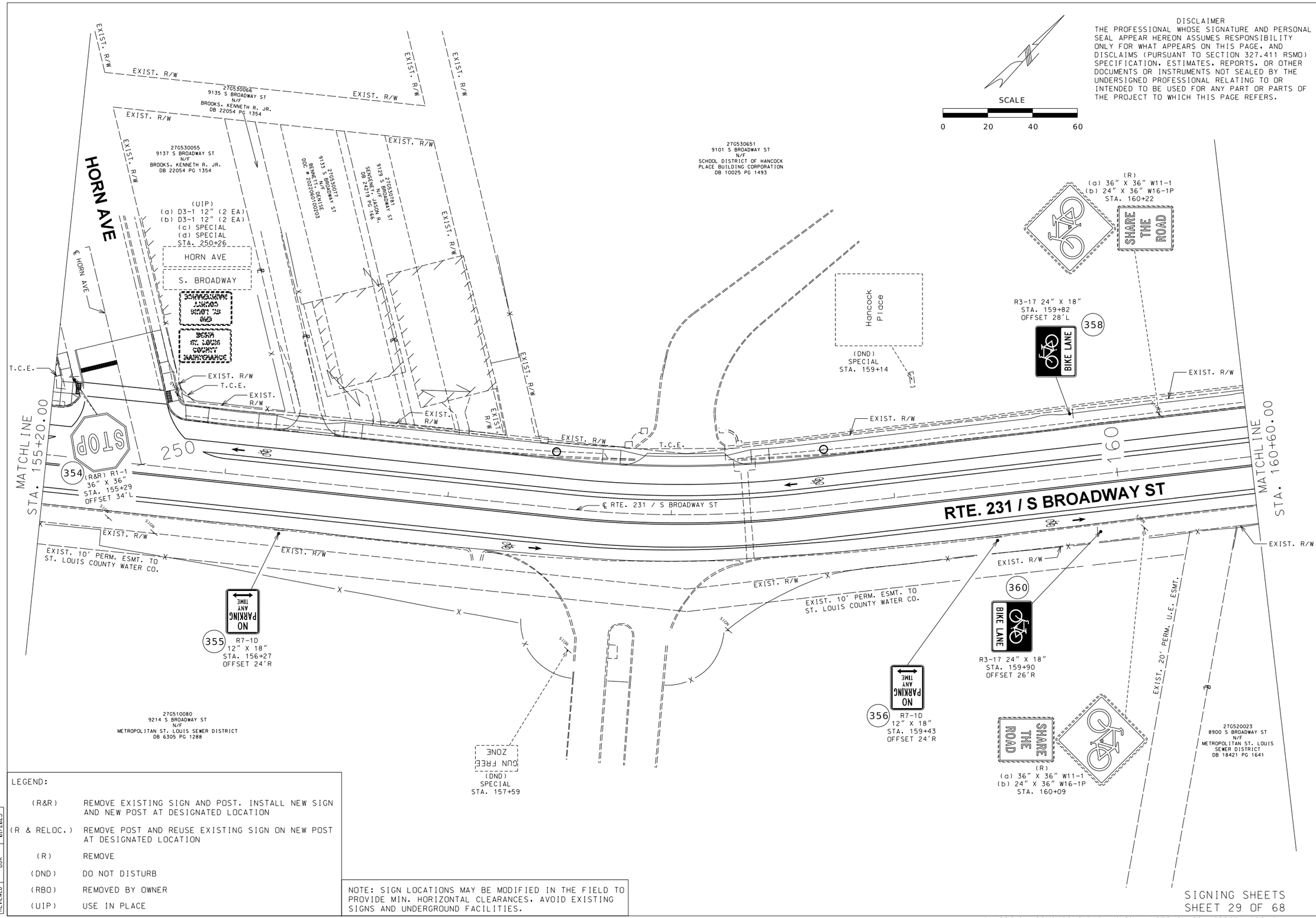
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(RBO)	REMOVED BY OWNER
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REVIEWED	DJK	01/2025

STATE OF MISSOURI
DENNIS J. KOSCIELSKI
NUMBER PE-2005000712
PROFESSIONAL ENGINEER

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ROUTE	STATE
231	MO
DISTRICT	SHEET NO.
SL	378

COUNTY
ST. LOUIS

JOB NO.
J6S3631

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION	DATE

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MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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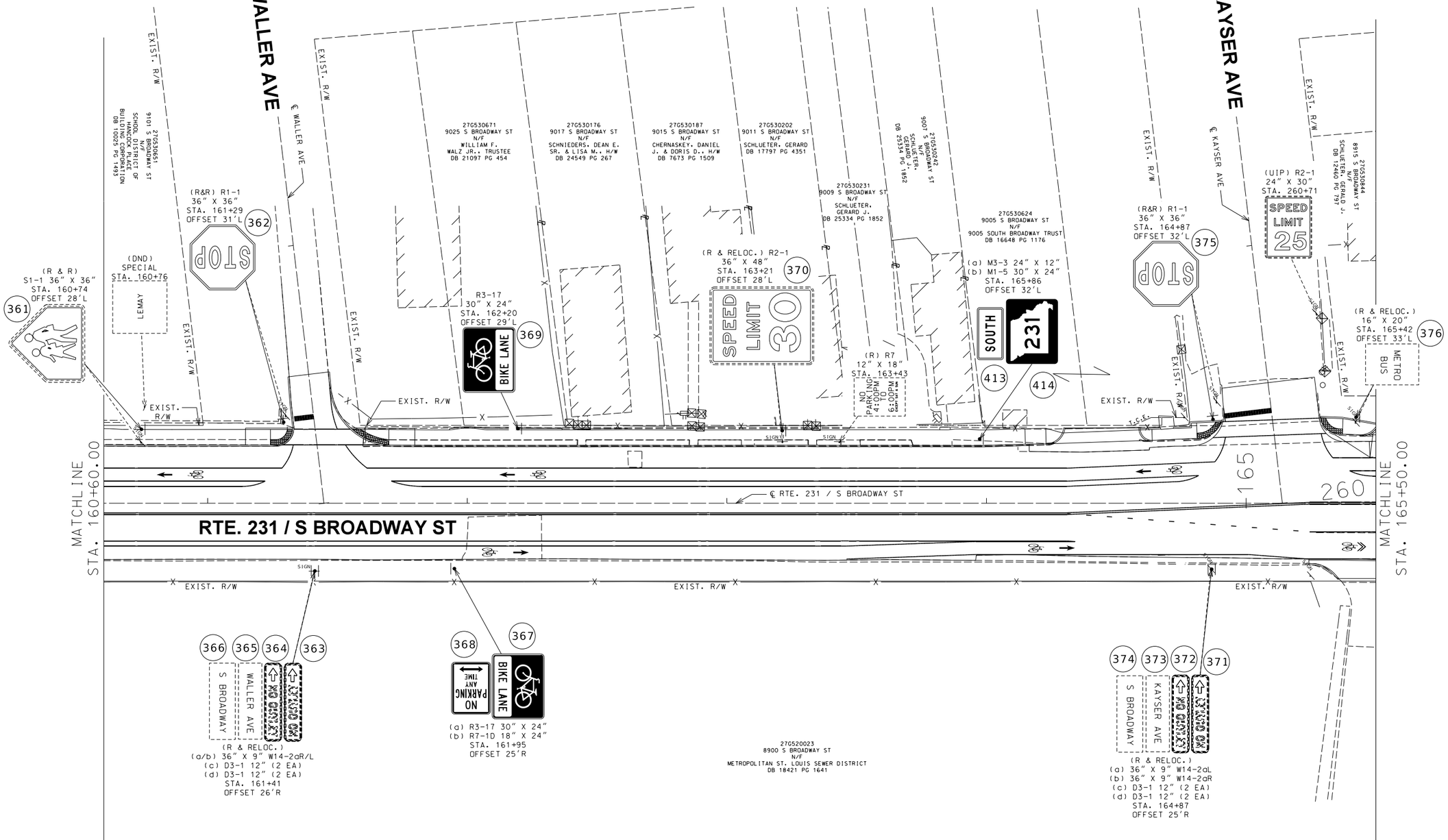
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SHEET 30 OF 68

STATE OF MISSOURI
DENNIS J. KOSCIELSKI
NUMBER PE-2005000712
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DATE PREPARED
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ROUTE	STATE
231	MO
DISTRICT	SHEET NO.
SL	379

COUNTY
ST. LOUIS

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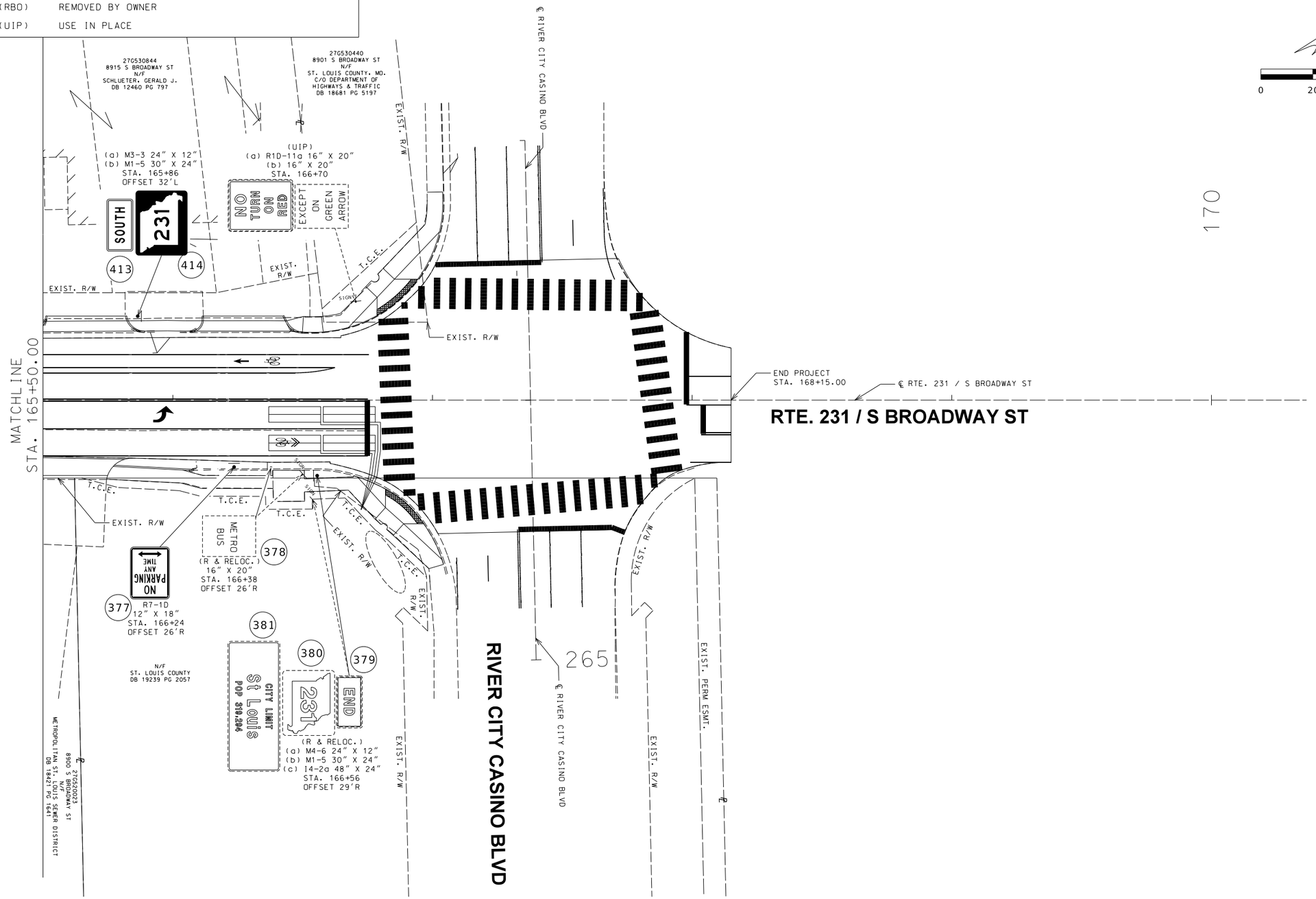
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(R & RELOC.)	REMOVE POST AND REUSE EXISTING SIGN ON NEW POST AT DESIGNATED LOCATION
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DATE PREPARED	
7/25/2025	
ROUTE	STATE
231	MO
DISTRICT	SHEET NO.
SL	380
COUNTY	
ST. LOUIS	
JOB NO.	
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PROJECT NO.	
BRIDGE NO.	

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SIGNING SHEETS
SHEET 31 OF 68

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SIGNS						CONCRETE FOOTINGS EMBEDDED	STRUCTURAL STEEL POSTS *						PIPE POSTS *					BACKING BARS **				U-CHANNEL POST	PERFORATED SQUARE STEEL TUBE														EFFECTIVE 07-01-2024
902 SIGNAL SIGNS TABULATED ON D-37A SHEET																						2-IN. PSST POST					2.5-IN. POST									REMARKS AND OTHER REQUIRED ITEMS
SIGN NO.	SIGN SIZE	STATION OR LOG MILE	HORZ CLEAR IF NOT STD	LOCATION	SIGN DTL. SHT. NO.	ITEM NO. 9031010	POST DES NO.	POST NO.1	POST NO.2	POST NO.3	LBS PER FT	TOTAL ITEM NO. 9031210	PIPE SIZE	POST NO.1	POST NO.2	LBS PER FT	TOTAL ITEM NO. 9031220	2" X 3/8" BARS @ 2.55 LBS PER FT NO.	LGTH	TOTAL	TOTAL	ITEM NO. 9031250A	POST NO.1	POST NO.2	TOTAL 2 IN. PSST POST-12 GA. ITEM NO. 9031270A	ANCHORS DRIVEN 12-GA. ITEM NO. 9031271A	ANCHORS DRIVEN 7-GA. ITEM NO. 9031273A	ANCHORS CONCRETE 7-GA. ITEM NO. 9031274	POST NO.1	POST NO.2	TOTAL ITEM NO. 9031280	2.25" INSERT (6 FT) ITEM NO. 9031272A	ANCHORS DRIVEN 7-GA. ITEM NO. 9031281A	ANCHORS CONCRETE 7-GA. ITEM NO. 9031285	BREAK-AWAY ASSEMBLY ITEM NO. 9031241	
						CY		LF	LF	LF		LBS	IN.	LF	LF		LBS	EACH	IN.	LF	LBS	LF	LF	LF	LF	EA	EA	EA	LF	LF	LF	EA	EA	EA	EA	
1	36"X48"	14+08	6'-6"	RTE. 231	1																		14		14	1										1	SIGN FACE AND POST TO BE REMOVED AND REPLACED
2	24"X36"	14+41	6'-6"	RTE. 231	1																		13.5		13.5	1										1	
3	24"X36"	15+17	6'-6"	RTE. 231	1																		13.5		13.5	1										1	
4	12"X18"	15+84	2'-0"	RTE. 231	1																		11.5		11.5	1										1	
5	36"X36"	16+09	6'-6"	RTE. 231	1																		13.5		13.5	1										1	SIGN FACE AND POST TO BE REMOVED AND REPLACED
6	12"	16+52	7'-0"	RTE. 231	1																		14.5		14.5	1										1	SIGN FACE TO BE REUSED ON NEW POST
7	12"			RTE. 231	1																																ASSEMBLY
8	SPECIAL			RTE. 231	1																																ASSEMBLY
9	SPECIAL			RTE. 231	1																																ASSEMBLY
10	36"X36"	18+75	3'-3"	RTE. 231	2																		14.5		14.5	1										1	
11	30"X18"			RTE. 231	2																																ASSEMBLY
12	24"X36"	18+74	6'-0"	RTE. 231	2																		13.5		13.5	1										1	
13	18"X20"	18+99	3'-10"	RTE. 231	2																		12		12	1										1	SIGN FACE TO BE REUSED ON NEW POST
14	24"X36"	19+14	3'-8"	RTE. 231	2																		14.5		14.5	1										1	
15	36"x36"	OMITTED		RTE. 231	2																																SIGN NOT USED
16	24"X18"	19+14	3'-0"	RTE. 231	2																		12		12	1										1	ASSEMBLY
17	36"X36"	19+98	3'-6"	RTE. 231	2																		13		13	1										1	
18	24"X30"	20+08		RTE. 231	2																		13		13	1										1	
19	24"X30"	20+33		RTE. 231	2																		13		13	1										1	
20	36"X36"	20+45	3'-3"	RTE. 231	2																		13		13	1										1	
21	12"X18"	20+74	2'-0"	RTE. 231	2																		13.5		13.5	1										1	SIGN FACE TO BE REUSED ON NEW POST
22	12"	20+98	8'-6"	RTE. 231	2																		11.5		11.5	1										1	SIGN FACE TO BE REUSED ON NEW POST
23	12"			RTE. 231	2																																ASSEMBLY
24	SPECIAL			RTE. 231	2																																ASSEMBLY
25	SPECIAL			RTE. 231	2																																ASSEMBLY
26	36"X36"	21+30	7'-5"	RTE. 231	2																		14		14	1										1	SIGN FACE AND POST TO BE REMOVED AND REPLACED
27	36"X36"	24+19	4'-7"	RTE. 231	2																		15		15	1										1	
28	30"X18"			RTE. 231	2																																ASSEMBLY
29	24"X36"	24+12	5'-2"	RTE. 231	3																		14		14	1										1	
30	24"X18"	24+19	5'-2"	RTE. 231	3																		11.5		11.5	1										1	
31	36"X36"	OMITTED		RTE. 231	3																																SIGN NOT USED
32	12"X18"	25+10	2'-0"	RTE. 231	3																		11.5		11.5	1										1	SIGN FACE TO BE REUSED ON NEW POST
33	24"X36"	25+44	5'-9"	RTE. 231	3																		13.5		13.5	1										1	
34	12"X18"	25+59	4'-6"	RTE. 231	3																		11.5		11.5	1										1	SIGN FACE TO BE REUSED ON NEW POST
35	36"X48"	25+86	4'-9"	RTE. 231	3																		14		14	1										1	SIGN FACE AND POST TO BE REMOVED AND REPLACED
36	36"X36"	26+30	5'-5"	RTE. 231	3																		14		14	1										1	SIGN FACE AND POST TO BE REMOVED AND REPLACED
37	12"	26+32	3'-0"	RTE. 231	3																		15.5		15.5	1										1	SIGN FACE TO BE REUSED ON NEW POST
38	12"			RTE. 231	3																																ASSEMBLY
39	SPECIAL			RTE. 231	3																																ASSEMBLY
40	SPECIAL			RTE. 231	3																																ASSEMBLY
41	12"X18"	26+76	2'-0"	RTE. 231	3																		11.5		11.5	1										1	SIGN FACE TO BE REUSED ON NEW POST
42	12"X18"	27+38	2'-0"	RTE. 231	3																		11.5		11.5	1										1	SIGN FACE TO BE REUSED ON NEW POST
43	16"X20"	28+65	6'-0"	RTE. 231	4																		14		14	1										1	SIGN FACE TO BE REUSED ON NEW POST
44	12"X18"			RTE. 231	4																																ASSEMBLY
45	36"X36"	29+10	7'-4"	RTE. 231	4																		13.5		13.5	1										1	SIGN FACE AND POST TO BE REMOVED AND REPLACED
46	36"X9"	29+11	3'-2"	RTE. 231	4																		16		16	1										1	SIGN FACE TO BE REUSED ON NEW POST
47	36"X9"			RTE. 231	4																																ASSEMBLY
48	12"			RTE. 231	4																																ASSEMBLY
49	12"			RTE. 231	4																																ASSEMBLY
50	SPECIAL			RTE. 231	4																																ASSEMBLY
51	SPECIAL			RTE. 231	4																																ASSEMBLY
52	24"X36"	29+99	6'-4"	RTE. 231	4																		13		13	1										1	
53	24"X36"	30+42	5'-3"	RTE. 231	4																		13.5		13.5	1										1	
54	24"X36"	33+79	5'-9"	RTE. 231	5																		14.5		14.5	1										1	
55	24"X18"	34+52	4'-10"	RTE. 231	5																		11.5		11.5	1										1	
56	24"X36"	OMITTED		RTE. 231	5																																SIGN NOT USED
57	36"X36"	34+67	5'-9"	RTE. 231	5																		13.5		13.5	1										1	
58	24"X18"	36+49	4'-9"	RTE. 231	5																		11.5		11.5	1										1	
59	24"X36"	OMITTED		RTE. 231	5																																SIGN NOT USED
60	SPECIAL	37+20	11'-0"	RTE. 231	5	0.16	1	15.5	16.5		9	288																										EXCAVATION IN SOIL AND ROCK INCIDENTAL TO PROJECT SIGN FACE TO BE REUSED ON NEW POST
				SUBTOTAL 1		0.16						288													490	38										38	

* BREAKAWAY ASSEMBLY IS INCIDENTAL FOR STRUCTURAL STEEL AND PIPE POSTS.
** BACKING BARS ARE TOTALED WITH STRUCTURAL STEEL OR PIPE POSTS.

ROUND PIPE POST AND FOOTING DATA TABLE

NOM.SIZE	WEIGHT		STUB LENGTH	FOOTING		CONCRETE
(IN.)	LBS/FT	LBS/IN		DIA.	DEPTH	C.Y.
2½	5.79	0.48	4'- 3½"	12"	4-6"	0.13
3	7.58	0.63	4'- 3½"	12"	4-6"	0.13
4	10.79	0.90	5'- 3½"	18"	5-6"	0.36

STRUCTURAL STEEL POST AND FOOTING DATA TABLE

POST DES. NO.	NOM. SIZE	POST WEIGHT LBS/FT	POST WEIGHT LBS/IN	POST STUB LENGTH	FOOTING DIA.	FOOTING LEVEL GROUND DEPTH	FOOTING LEVEL GROUND C.Y.	FOOTING 6:1 GRADE DEPTH	FOOTING 6:1 GRADE C.Y.	FOOTING 4:1 GRADE DEPTH	FOOTING 4:1 GRADE C.Y.	FOOTING 3:1 OR 2:1 GRADE DEPTH	FOOTING 3:1 OR 2:1 GRADE C.Y.
1	W6	9.0	0.75	3'-0"	15"	3'-0"	0.14	3'-2"	0.15	3'-3"	0.16	3'-6"	0.17
2	W6	15.0	1.25	4'-0"	24"	4'-0"	0.47	4'-2"	0.50	4'-3"	0.51	4'-6"	0.54
3	W8	18.0	1.50	4'-6"	28"	4'-6"	0.71	4'-8"	0.73	4'-9"	0.74	5'-0"	0.78
4	W10	22.0	1.83	5'-0"	36"	5'-0"	1.31	5'-2"	1.36	5'-3"	1.39	5'-6"	1.45
5	W10	26.0	2.17	5'-0"	36"	5'-0"	1.31	5'-3"	1.37	5'-5"	1.43	5'-9"	1.52
6	W12	35.0	2.92	5'-6"	36"	5'-6"	1.44	5'-9"	1.52	5'-11"	1.56	6'-3"	1.65

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SHEET 32 OF 68

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STATE OF MISSOURI
DENNIS J. KOSCIELSKI
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ROUTE	STATE
231	MO
DISTRICT	SHEET NO.
SL	381

COUNTY
ST. LOUIS

JOB NO.
J6S3631

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION	DATE

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

MoDOT

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St. Louis, Missouri 63101
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SIGNS						CONCRETE FOOTINGS EMBEDDED	STRUCTURAL STEEL POSTS *						PIPE POSTS *					BACKING BARS **				U-CHANNEL POST	PERFORATED SQUARE STEEL TUBE													EFFECTIVE 07-01-2024
902 SIGNAL SIGNS TABULATED ON D-37A SHEET																						2-IN. PSST POST					2.5-IN. POST							REMARKS AND OTHER REQUIRED ITEMS
SIGN NO.	SIGN SIZE	STATION OR LOG MILE	HORZ CLEAR IF NOT STD	LOCATION	SIGN DTL. SHT. NO.	ITEM NO. 9031010	POST DES NO.	POST NO.1	POST NO.2	POST NO.3	LBS PER FT	TOTAL ITEM NO. 9031210	PIPE SIZE	POST NO.1	POST NO.2	LBS PER FT	TOTAL ITEM NO. 9031220	2" X 3/8" BARS @ 2.55 LBS PER FT NO.	LGTH	TOTAL	TOTAL	ITEM NO. 9031250A	POST NO.1	POST NO.2	TOTAL 2 IN. PSST POST-12 GA. ITEM NO. 9031270A	ANCHORS DRIVEN 12-GA. ITEM NO. 9031271A	ANCHORS DRIVEN 7-GA. ITEM NO. 9031273A	ANCHORS CONCRETE 7-GA. ITEM NO. 9031274	POST NO.1	POST NO.2	TOTAL ITEM NO. 9031280	2.25" INSERT (6 FT) ITEM NO. 9031272A	ANCHORS DRIVEN 7-GA. ITEM NO. 9031281A	ANCHORS CONCRETE 7-GA. ITEM NO. 9031285	BREAK-AWAY ASSEMBLY ITEM NO. 9031241	
						CY		LF	LF	LF		LBS	IN.	LF	LF		LBS	EACH	IN.	LF	LBS	LF	LF	LF	LF	EA	EA	EA	LF	LF	LF	EA	EA	EA	EA	
61	SPECIAL	39+98	9'-2"	RTE. 231	6	0.36							4	16.5	16.5	10.79	356.07																			EXCAVATION IN SOIL AND ROCK INCIDENTAL TO PROJECT
62	24"X12"	40+54	10'-6"	RTE. 231	6																		15		15	1									1	SIGN FACE TO BE REUSED ON NEW POST
63	24"X24"			RTE. 231	6																															ASSEMBLY
64	21"X15"			RTE. 231	6																															ASSEMBLY
65	24"X36"	42+22	4'-3"	RTE. 231	6																		13.5		13.5	1									1	
66	24"X18"	43+75	5'-9"	RTE. 231	7																		11.5		11.5	1									1	
67	36"X36"	OMITTED		RTE. 231	7																															SIGN NOT USED
68	36"X36"	45+31	5'-0"	RTE. 231	7																		13.5		13.5	1									1	SIGN FACE AND POST TO BE REMOVED AND REPLACED
69	24"X18"	46+53	6'-6"	RTE. 231	7																		11.5		11.5	1									1	
70	36"X36"	OMITTED		RTE. 231	7																															SIGN NOT USED
71	36"X36"	47+29	2'-0"	RTE. 231	7																		13.5		13.5	1									1	
72	30"X30"	51+49	2'-3"	TELEGRAPH RD	7																		13		13	1									1	
73	12"X18"	48+38	2'-0"	RTE. 231	8																		11.5		11.5	1									1	SIGN FACE TO BE REUSED ON NEW POST
74	36"X36"	48+92	6'-0"	RTE. 231	8																		13.5		13.5	1									1	SIGN FACE TO BE REUSED ON NEW POST
75	24"X12"	50+55	6'-0"	RTE. 231	8																		15.5		15.5	1									1	SIGN FACE TO BE REUSED ON NEW POST
76	30"X24"			RTE. 231	8																															ASSEMBLY
77	SPECIAL			RTE. 231	8																															ASSEMBLY
78	36"X36"	51+18	11'-0"	RTE. 231	8																		13		13	1									1	SIGN FACE AND POST TO BE REMOVED AND REPLACED
79	36"X36"	50+58	8'-9"	RTE. 231	8																		13.5		13.5	1									1	SIGN FACE AND POST TO BE REMOVED AND REPLACED
80	24"X18"	51+87	6'-9"	RTE. 231	8																		11.5		11.5	1									1	
81	36"X36"	OMITTED		RTE. 231	8																															SIGN NOT USED
82	24"X36"	51+96	6'-6"	RTE. 231	8																		13.5		13.5	1									1	
83	36"X36"	52+62	14'-6"	RTE. 231	8																		13.5		13.5	1									1	SIGN FACE AND POST TO BE REMOVED AND REPLACED
84	24"X18"	54+57	6'-6"	RTE. 231	9																		11.5		11.5	1									1	
85	36"X36"	OMITTED		RTE. 231	9																															SIGN NOT USED
86	24"X36"	55+04	7'-4"	RTE. 231	9																		13.5		13.5	1									1	
87	24"X36"	55+19	6'-6"	RTE. 231	9																		13.5		13.5	1									1	
88	36"X36"	56+44	11'-10"	RTE. 231	9																		13.5		13.5	1									1	SIGN FACE AND POST TO BE REMOVED AND REPLACED
89	12"	56+51	8'-0"	RTE. 231	9																		14.5		14.5	1									1	SIGN FACE TO BE REUSED ON NEW POST
90	12"			RTE. 231	9																															ASSEMBLY
91	SPECIAL			RTE. 231	9																															ASSEMBLY
92	SPECIAL			RTE. 231	9																															ASSEMBLY
93	12"	58+25	7'-4"	RTE. 231	9																		14.5		14.5	1									1	SIGN FACE TO BE REUSED ON NEW POST
94	12"			RTE. 231	9																															ASSEMBLY
95	SPECIAL			RTE. 231	9																															ASSEMBLY
96	SPECIAL			RTE. 231	9																															ASSEMBLY
97	36"X36"	57+82	10'-2"	RTE. 231	9																		13.5		13.5	1									1	SIGN FACE AND POST TO BE REMOVED AND REPLACED
98	16"X20"	58+45	7'-4"	RTE. 231	10																		12		12	1									1	SIGN FACE TO BE REUSED ON NEW POST
99	24"X36"	59+45	4'-5"	RTE. 231	10																		13		13	1									1	
100	36"X48"	60+23	4'-0"	RTE. 231	10																		14		14	1									1	SIGN FACE AND POST TO BE REMOVED AND REPLACED
101	24"X18"	60+93	7'-1"	RTE. 231	10																		11.5		11.5	1									1	
102	36"X36"	OMITTED		RTE. 231	10																															SIGN NOT USED
103	12"	61+24	6'-0"	RTE. 231	10																		13		13	1									1	SIGN FACE TO BE REUSED ON NEW POST
104	12"			RTE. 231	10																															ASSEMBLY
105	24"X36"	61+98	4'-5"	RTE. 231	10																		13.5		13.5	1									1	
106	24"X12"	62+70	6'-0"	RTE. 231	10																		14		14	1									1	SIGN FACE AND POST TO BE REMOVED AND REPLACED
107	30"X24"			RTE. 231	10																															ASSEMBLY
108	24"X36"	63+96	6'-4"	RTE. 231	11																		13.5		13.5	1									1	
109	24"X36"	64+11	6'-4"	RTE. 231	11																		13.5		13.5	1									1	
110	36"X36"	64+71	10'-7"	RTE. 231	11																		13.5		13.5	1									1	SIGN FACE AND POST TO BE REMOVED AND REPLACED
111	12"	65+20	6'-3"	RTE. 231	11																		14.5		14.5	1									1	SIGN FACE TO BE REUSED ON NEW POST
112	12"			RTE. 231	11																															ASSEMBLY
113	SPECIAL			RTE. 231	11																															ASSEMBLY
114	SPECIAL			RTE. 231	11																															ASSEMBLY
115	16"X20"	65+54	4'-8"	RTE. 231	11																		12		12	1									1	SIGN FACE TO BE REUSED ON NEW POST
116	12"X18"	65+87	2'-0"	RTE. 231	11																		11.5		11.5	1									1	
117	12"X18"	66+03	2'-0"	RTE. 231	11																		11.5		11.5	1									1	
118	24"X18"	67+64	7'-4	RTE. 231	11																		11.5		11.5	1									1	
119	36"X36"	OMITTED		RTE. 231	11																															SIGN NOT USED
			SUBTOTAL 2			0.36						356.07													484	37								37	

* BREAKAWAY ASSEMBLY IS INCIDENTAL FOR STRUCTURAL STEEL AND PIPE POSTS.
** BACKING BARS ARE TOTALED WITH STRUCTURAL STEEL OR PIPE POSTS.

ROUND PIPE POST AND FOOTING DATA TABLE

NOM.SIZE	WEIGHT		STUB LENGTH	FOOTING		CONCRETE
(IN.)	LBS/FT	LBS/IN		DIA.	DEPTH	C.Y.
2½	5.79	0.48	4'- 3½"	12"	4–6"	0.13
3	7.58	0.63	4'- 3½"	12"	4–6"	0.13
4	10.79	0.90	5'- 3½"	18"	5–6"	0.36

STRUCTURAL STEEL POST AND FOOTING DATA TABLE

POST DES. NO.	NOM. SIZE	POST WEIGHT LBS/FT	POST WEIGHT LBS/IN	POST STUB LENGTH	FOOTING DIA.	FOOTING LEVEL GROUND DEPTH	FOOTING LEVEL GROUND C.Y.	FOOTING 6:1 GRADE DEPTH	FOOTING 6:1 GRADE C.Y.	FOOTING 4:1 GRADE DEPTH	FOOTING 4:1 GRADE C.Y.	FOOTING 3:1 OR 2:1 GRADE DEPTH	FOOTING 3:1 OR 2:1 GRADE C.Y.
1	W6	9.0	0.75	3'-0"	15"	3'-0"	0.14	3'-2"	0.15	3'-3"	0.16	3'-6"	0.17
2	W6	15.0	1.25	4'-0"	24"	4'-0"	0.47	4'-2"	0.50	4'-3"	0.51	4'-6"	0.54
3	W8	18.0	1.50	4'-6"	28"	4'-6"	0.71	4'-8"	0.73	4'-9"	0.74	5'-0"	0.78
4	W10	22.0	1.83	5'-0"	36"	5'-0"	1.31	5'-2"	1.36	5'-3"	1.39	5'-6"	1.45
5	W10	26.0	2.17	5'-0"	36"	5'-0"	1.31	5'-3"	1.37	5'-5"	1.43	5'-9"	1.52
6	W12	35.0	2.92	5'-6"	36"	5'-6"	1.44	5'-9"	1.52	5'-11"	1.56	6'-3"	1.65

SIGN SUPPORTS
2 OF 7

SIGNING SHEETS
SHEET 33 OF 68

LAYOUT	NS	01/2025
DRAWN	SMC	01/2025
REVIEWED	DJK	01/2025

STATE OF MISSOURI
DENNIS J. KOSCIELSKI
NUMBER PE-2005000712
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED
7/25/2025

ROUTE	STATE
231	MO
DISTRICT	SHEET NO.
SL	382

COUNTY
ST. LOUIS

JOB NO.
J6S3631

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

IF A SEAL IS PRESENT ON THIS SHEET, IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

DESCRIPTION | DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

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SIGNS						CONCRETE FOOTINGS EMBEDDED	STRUCTURAL STEEL POSTS *						PIPE POSTS *					BACKING BARS **				U-CHANNEL POST	PERFORATED SQUARE STEEL TUBE														BREAK-AWAY ASSEMBLY	REMARKS AND OTHER REQUIRED ITEMS
902 SIGNAL SIGNS TABULATED ON D-37A SHEET																						2-IN. PSST POST						2.5-IN. POST									
																									ANCHORS						ANCHORS						
SIGN NO.	SIGN SIZE	STATION OR LOG MILE	HORZ CLEAR IF NOT STD	LOCATION	SIGN DTL. SHT. NO.	ITEM NO. 9031010	POST DES NO.	POST NO.1	POST NO.2	POST NO.3	LBS PER FT	TOTAL ITEM NO. 9031210	PIPE SIZE	POST NO.1	POST NO.2	LBS PER FT	TOTAL ITEM NO. 9031220	2" X 3/8" BARS @ 2.55 LBS PER FT NO.	LGTH	TOTAL	TOTAL	ITEM NO. 9031250A	POST NO.1	POST NO.2	TOTAL 2 IN. PSST POST-12 GA. ITEM NO. 9031270A	DRIVEN 12-GA. ITEM NO. 9031271A	DRIVEN 7-GA. ITEM NO. 9031273A	CONCRETE 7-GA. ITEM NO. 9031274	POST NO.1	POST NO.2	TOTAL ITEM NO. 9031280	2.25" INSERT (6 FT) ITEM NO. 9031272A	DRIVEN 7-GA. ITEM NO. 9031281A	CONCRETE 7-GA. ITEM NO. 9031285	ITEM NO. 9031241	
						CY		LF	LF	LF		LBS	IN.	LF	LF		LBS	EACH	IN.	LF	LBS	LF	LF	LF	LF	EA	EA	EA	LF	LF	LF	EA	EA	EA	EA	
120	12"	67+40	3'-0"	RTE. 231	11																		14.5		14.5	1										1	SIGN FACE TO BE REUSED ON NEW POST
121	12"			RTE. 231	11																																ASSEMBLY
122	SPECIAL			RTE. 231	11																																ASSEMBLY
123	SPECIAL			RTE. 231	11																																ASSEMBLY
124	36"X36"	67+48	9'-9"	RTE. 231	11																		13.5		13.5	1										1	SIGN FACE AND POST TO BE REMOVED AND REPLACED
125	12"X18"	67+89	2'-0"	RTE. 231	11																		11.5		11.5	1										1	
126	36"X36"	68+01	2'-9"	RTE. 231	11																		15		15	1										1	SIGN FACE TO BE REUSED ON NEW POST
127	24"X18"			RTE. 231	11																																ASSEMBLY
128	12"X18"	69+29	2'-0"	RTE. 231	12																		11.5		11.5	1										1	
129	24"X36"	68+38	6'-4"	RTE. 231	12																		14		14	1										1	
130	36"X36"	69+72	6'-6"	RTE. 231	12																		15.5		15.5	1										1	
131	30"X18"			RTE. 231	12																																ASSEMBLY
132	36"X36"	69+98	5'-0"	RTE. 231	12																		13.5		13.5	1										1	SIGN FACE AND POST TO BE REMOVED AND REPLACED
133	36"X36"	71+02	6'-2"	RTE. 231	12																		14		14	1										1	
134	24"X30"	71+10		RTE. 231	12																		13		13	1										1	
135	24"X30"	71+39		RTE. 231	12																		13		13	1										1	
136	36"X36"	71+48	5'-9"	RTE. 231	12																		13.5		13.5	1										1	
137	12"X18"	72+01	2'-0"	RTE. 231	12																		11.5		11.5	1										1	
138	24"X36"	72+08	6'-9"	RTE. 231	12																		14		14	1										1	
139	12"X36"	72+21	7'-9"	RTE. 231	12																		14		14	1										1	SIGN FACE TO BE REUSED ON NEW POST
140	36"X36"	72+52	6'-5"	RTE. 231	12																		16.5		16.5	1										1	
141	30"X18"			RTE. 231	12																																ASSEMBLY
142	36"X36"	72+67	6'-0"	RTE. 231	12																		13.5		13.5	1										1	SIGN FACE AND POST TO BE REMOVED AND REPLACED
143	12"X18"	74+85	2'-0"	RTE. 231	13																		11.5		11.5	1										1	
144	36"X36"	75+38	4'-7"	RTE. 231	13																		13.5		13.5	1										1	SIGN FACE AND POST TO BE REMOVED AND REPLACED
145	24"X36"	76+64	6'-6"	RTE. 231	13																		13		13	1										1	
146	16"X20"	76+93	2'-0"	RTE. 231	13																		12		12	1										1	SIGN FACE TO BE REUSED ON NEW POST
147	12"X18"	76+97	2'-0"	RTE. 231	13																		11.5		11.5	1										1	
148	24"X36"	77+47	6'-1"	RTE. 231	13																		13.5		13.5	1										1	
149	16"X20"	78+23	2'-0"	RTE. 231	13																		14		14	1										1	SIGN FACE TO BE REUSED ON NEW POST
150	12"X18"			RTE. 231	13																																ASSEMBLY
151	36"X36"	78+08	5'-1"	RTE. 231	13																		14		14	1										1	SIGN FACE AND POST TO BE REMOVED AND REPLACED
152	24"X18"	80+44	7'-1"	RTE. 231	14																		11.5		11.5	1										1	
153	36"X36"	OMITTED		RTE. 231	14																																SIGN NOT USED
154	36"X36"	80+80	5'-10"	RTE. 231	14																		13.5		13.5	1										1	SIGN FACE AND POST TO BE REMOVED AND REPLACED
155	24"X36"	81+68	6'-6"	RTE. 231	14																		13.5		13.5	1										1	
156	24"X36"	81+79	6'-9"	RTE. 231	14																		14		14	1										1	
157	12"X18"	81+97	2'-0"	RTE. 231	14																		11.5		11.5	1										1	SIGN FACE TO BE REUSED ON NEW POST
158	12"X18"	82+75	2'-0"	RTE. 231	14																		11.5		11.5	1										1	
159	12"	83+23	10'-8"	RTE. 231	14																		14.5		14.5	1										1	SIGN FACE TO BE REUSED ON NEW POST
160	12"			RTE. 231	14																																ASSEMBLY
161	SPECIAL			RTE. 231	14																																ASSEMBLY
162	SPECIAL			RTE. 231	14																																ASSEMBLY
163	36"X36"	83+30	10'-6"	RTE. 231	14																		13.5		13.5	1										1	SIGN FACE AND POST TO BE REMOVED AND REPLACED
164	12"X18"	83+75	2'-0"	RTE. 231	14																		11.5		11.5	1										1	SIGN FACE TO BE REUSED ON NEW POST
165	24"X36"	84+58	6'-4"	RTE. 231	15																		14		14	1										1	
166	16"X20"	84+96	2'-0"	RTE. 231	15																		14.5		14.5	1										1	SIGN FACE TO BE REUSED ON NEW POST
167	12"X18"			RTE. 231	15																																ASSEMBLY
168	24"X36"	85+23	2'-0"	RTE. 231	15																		14		14	1										1	
169	36"X36"	85+81	12'-10"	RTE. 231	15																		14		14	1										1	SIGN FACE AND POST TO BE REMOVED AND REPLACED
170	12"X18"	85+97	2'-0"	RTE. 231	15																		11.5		11.5	1										1	SIGN FACE TO BE REUSED ON NEW POST
171	16"X20"	86+68	2'-0"	RTE. 231	15																		14.5		14.5	1										1	SIGN FACE TO BE REUSED ON NEW POST
172	12"X18"			RTE. 231	15																																ASSEMBLY
173	36"X36"	88+18	5'-9"	RTE. 231	15																		15.5		15.5	1										1	SIGN FACE TO BE REUSED ON NEW POST
174	30"X18"			RTE. 231	15																																ASSEMBLY
175	36"X36"	89+27	5'-9"	RTE. 231	16																		14		14	1										1	SIGN FACE TO BE REUSED ON NEW POST
176	24"X30"	89+43		RTE. 231	16																		13		13	1										1	
177	24"X30"	89+72		RTE. 231	16																		13		13	1										1	
178	36"X36"	89+84	4'-9"	RTE. 231	16																		13.5		13.5	1										1	SIGN FACE TO BE REUSED ON NEW POST
179	16"X20"	90+18	7'-4"	RTE. 231	16																		12		12	1										1	SIGN FACE TO BE REUSED ON NEW POST
			SUBTOTAL 3																				614	46												46	

* BREAKAWAY ASSEMBLY IS INCIDENTAL FOR STRUCTURAL STEEL AND PIPE POSTS.
** BACKING BARS ARE TOTALED WITH STRUCTURAL STEEL OR PIPE POSTS.

ROUND PIPE POST AND FOOTING DATA TABLE

NOM. SIZE	WEIGHT		STUB LENGTH	FOOTING		CONCRETE
(IN.)	LBS/FT	LBS/IN		DIA.	DEPTH	C.Y.
2½	5.79	0.48	4'- 3½"	12"	4–6"	0.13
3	7.58	0.63	4'- 3½"	12"	4–6"	0.13
4	10.79	0.90	5'- 3½"	18"	5–6"	0.36

STRUCTURAL STEEL POST AND FOOTING DATA TABLE

POST DES. NO.	NOM. SIZE	POST WEIGHT LBS/FT	POST WEIGHT LBS/IN	POST STUB LENGTH	FOOTING DIA.	FOOTING LEVEL GROUND DEPTH	FOOTING LEVEL GROUND C.Y.	FOOTING 6:1 GRADE DEPTH	FOOTING 6:1 GRADE C.Y.	FOOTING 4:1 GRADE DEPTH	FOOTING 4:1 GRADE C.Y.	FOOTING 3:1 OR 2:1 GRADE DEPTH	FOOTING 3:1 OR 2:1 GRADE C.Y.
1	W6	9.0	0.75	3'-0"	15"	3'-0"	0.14	3'-2"	0.15	3'-3"	0.16	3'-6"	0.17
2	W6	15.0	1.25	4'-0"	24"	4'-0"	0.47	4'-2"	0.50	4'-3"	0.51	4'-6"	0.54
3	W8	18.0	1.50	4'-6"	28"	4'-6"	0.71	4'-8"	0.73	4'-9"	0.74	5'-0"	0.78
4	W10	22.0	1.83	5'-0"	36"	5'-0"	1.31	5'-2"	1.36	5'-3"	1.39	5'-6"	1.45
5	W10	26.0	2.17	5'-0"	36"	5'-0"	1.31	5'-3"	1.37	5'-5"	1.43	5'-9"	1.52
6	W12	35.0	2.92	5'-6"	36"	5'-6"	1.44	5'-9"	1.52	5'-11"	1.56	6'-3"	1.65

LAYOUT	NS	01/2025
DRAWN	SMC	01/2025
REVIEWED	DJK	01/2025

EFFECTIVE 07-01-2024

STATE OF MISSOURI
DENNIS J. KOSCIELSKI
NUMBER PE-2005000712
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED
7/25/2025

ROUTE	STATE
231	MO
DISTRICT	SHEET NO.
SL	383

COUNTY
ST. LOUIS

JOB NO.
J6S3631

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION	DATE

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

MoDOT

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Professional Engineer 001632
www.hanson-inc.com
314.770.0467

SIGN SUPPORTS
3 OF 7

SIGNING SHEETS
SHEET 34 OF 68

D-29

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SIGNS						CONCRETE FOOTINGS EMBEDDED	STRUCTURAL STEEL POSTS *						PIPE POSTS *					BACKING BARS **				U-CHANNEL POST	PERFORATED SQUARE STEEL TUBE														EFFECTIVE 07-01-2024
902 SIGNAL SIGNS TABULATED ON D-37A SHEET																						2-IN. PSST POST						2.5-IN. POST									REMARKS AND OTHER REQUIRED ITEMS
SIGN NO.	SIGN SIZE	STATION OR LOG MILE	HORZ CLEAR IF NOT STD	LOCATION	SIGN DTL. SHT. NO.	ITEM NO. 9031010	POST DES NO.	POST NO.1	POST NO.2	POST NO.3	LBS PER FT	TOTAL ITEM NO. 9031210	PIPE SIZE	POST NO.1	POST NO.2	LBS PER FT	TOTAL ITEM NO. 9031220	2" X 3/8" BARS @ 2.55 LBS PER FT NO.	LGTH	TOTAL	TOTAL	ITEM NO. 9031250A	POST NO.1	POST NO.2	TOTAL 2 IN. PSST POST-12 GA. ITEM NO. 9031270A	ANCHORS DRIVEN 12-GA. ITEM NO. 9031271A	ANCHORS DRIVEN 7-GA. ITEM NO. 9031273A	ANCHORS CONCRETE 7-GA. ITEM NO. 9031274	POST NO.1	POST NO.2	TOTAL ITEM NO. 9031280	2.25" INSERT (6 FT) ITEM NO. 9031272A	ANCHORS DRIVEN 7-GA. ITEM NO. 9031281A	ANCHORS CONCRETE 7-GA. ITEM NO. 9031285	BREAK-AWAY ASSEMBLY ITEM NO. 9031241	
						CY		LF	LF	LF		LBS	IN.	LF	LF		LBS	EACH	IN.	LF	LBS	LF	LF	LF	LF	EA	EA	EA	LF	LF	LF	EA	EA	EA	EA	
180	36"X36"	90+47	6'-0"	RTE. 231	16																		16.5		16.5	1										1	SIGN FACE TO BE REUSED ON NEW POST
181	30"X18"			RTE. 231	16																																ASSEMBLY
182	36"X36"	90+67	8'-8"	RTE. 231	16																		14		14	1										1	SIGN FACE AND POST TO BE REMOVED AND REPLACED
183	24"X36"	91+72	6'-3"	RTE. 231	16																		13.5		13.5	1										1	
184	12"X18"	92+03	2'-0"	RTE. 231	16																		11.5		11.5	1										1	SIGN FACE TO BE REUSED ON NEW POST
185	24"X36"	98+83	6'-9"	RTE. 231	16																		14		14	1										1	
186	12"X18"	94+01	4'-9"	RTE. 231	16																		11.5		11.5	1										1	SIGN FACE TO BE REUSED ON NEW POST
187	16"X20"	94+14	4'-9"	RTE. 231	16																		14.5		14.5	1										1	SIGN FACE TO BE REUSED ON NEW POST
188	12"X18"			RTE. 231	16																																ASSEMBLY
189	36"X36"	96+55	5'-9"	RTE. 231	17																		13.5		13.5	1										1	SIGN FACE AND POST TO BE REMOVED AND REPLACED
190	24"X36"	96+72	6'-5"	RTE. 231	17																		13.5		13.5	1										1	
190a	12"X18"	96+05	2'-0"	RTE. 231	17																		11.5		11.5	1										1	
191	24"X36"	97+50	6'-7"	RTE. 231	17																		14.5		14.5	1										1	SIGN FACE TO BE REUSED ON NEW POST
192	21"X15"			RTE. 231	17																																ASSEMBLY
193	24"X12"	97+75	6'-4"	RTE. 231	17																		14		14	1										1	SIGN FACE AND POST TO BE REMOVED AND REPLACED
194	30"X24"			RTE. 231	17																																ASSEMBLY
195	24"X36"	97+85	6'-0"	RTE. 231	17																		14		14	1										1	
196	24"X18"	98+47	7'-1"	RTE. 231	17																		11.5		11.5	1										1	
197	36"X36"	OMITTED		RTE. 231	17																																SIGN NOT USED
198	18"X24"	99+29	7'-9"	RTE. 231	18																		14		14	1										1	SIGN FACE AND POST TO BE REMOVED AND REPLACED
199	21"X15"			RTE. 231	18																																ASSEMBLY
200	24"X36"	99+41	6'-4"	RTE. 231	18																		13.5		13.5	1										1	
201	12"X18"	100+05	2'-0"	RTE. 231	18																		11.5		11.5	1										1	SIGN FACE TO BE REUSED ON NEW POST
202	SPECIAL	99+82	16'-0"	RTE. 231	18																		14		14	1										1	SIGN FACE TO BE REUSED ON NEW POST
203	SPECIAL	99+41	16'-0"	RTE. 231	18	0.36							4	18	18	10.79	388.44																				EXCAVATION IN SOIL AND ROCK INCIDENTAL TO PROJECT SIGN FACE TO BE REUSED ON NEW POST
204	36"X36"	100+76	9'-1"	RTE. 231	18																		13.5		13.5	1										1	SIGN FACE AND POST TO BE REMOVED AND REPLACED
205	36"X36"	101+47	5'-9"	RTE. 231	18																		13.5		13.5	1										1	SIGN FACE AND POST TO BE REMOVED AND REPLACED
206	12"X18"	101+50	2'-0"	RTE. 231	18																		11.5		11.5	1										1	
207	24"X36"	102+50	6'-9"	RTE. 231	18																		14		14	1										1	
208	36"X36"	103+72	5'-10"	RTE. 231	18																		15.5		15.5	1										1	
209	24"X18"	103+39	5'-10"	RTE. 231	18																																ASSEMBLY
210	12"X18"	103+91	2'-0"	RTE. 231	18																		11.5		11.5	1										1	
211	36"X30"	104+47	3'-11"	RTE. 231	18																		12.5		12.5	1										1	
212	16"X20"	106+88	2'-0"	RTE. 231	19																		12		12	1										1	SIGN FACE TO BE REUSED ON NEW POST
213	48"X18"	108+26	4'-7"	RTE. 231	19																		12.5		12.5	1										1	SIGN FACE TO BE REUSED ON NEW POST
214	16"X20"	109+09	4'-10"	RTE. 231	19																		14		14	1										1	SIGN FACE TO BE REUSED ON NEW POST
215	12"X18"			RTE. 231	19																																ASSEMBLY
216	18"X12"	111+00	4'-11"	RTE. 231	20																		16.5		16.5	1										1	
217	18"X12"	111+00	4'-11"	RTE. 231	20																																ASSEMBLY
218	36"X36"	112+22	5'-0"	RTE. 231	20																		16.5		16.5	1										1	
219	18"X12"	112+22	5'-0"	RTE. 231	20																																ASSEMBLY
220	12"X18"	113+23	2'-0"	RTE. 231	20																		11.5		11.5	1										1	SIGN FACE TO BE REUSED ON NEW POST
221	36"X36"	113+45	15'-0"	RTE. 231	20																		14		14	1										1	SIGN FACE AND POST TO BE REMOVED AND REPLACED
223	18"X12"	115+08	3'-9"	RTE. 231	21																		15.5		15.5	1										1	
223a	36"X36"	115+08	3'-9"	RTE. 231	21																																ASSEMBLY
224	36"X36"	115+30	3'-9"	RTE. 231	21																		14.5		14.5	1										1	
225	30"X18"			RTE. 231	21																																ASSEMBLY
226	12"X18"	115+74	2'-0"	RTE. 231	21																		11.5		11.5	1										1	SIGN FACE TO BE REUSED ON NEW POST
227	36"X36"	115+87	4'-6"	RTE. 231	21																		15		15	1										1	
228	24"X18"			RTE. 231	21																																ASSEMBLY
229	12"	116+20	4'-0"	RTE. 231	21																		17.5		17.5	1										1	SIGN FACE TO BE REUSED ON NEW POST
230	12"			RTE. 231	21																																ASSEMBLY
231	36"X12"			RTE. 231	21																																ASSEMBLY
232	36"X12"			RTE. 231	21																																ASSEMBLY
233	36"X36"			RTE. 231	21																																ASSEMBLY
234	36"X36"	116+48	6'-5"	RTE. 231	21																		13.5		13.5	1										1	SIGN FACE AND POST TO BE REMOVED AND REPLACED
235	36"X36"	116+80	5'-2"	RTE. 231	21																		14		14	1										1	
236	36"X36"	116+43	11'-3"	RTE. 231	21																		14		14	1										1	SIGN FACE AND POST TO BE REMOVED AND REPLACED
237	36"X36"	117+28	4'-10"	RTE. 231	21																		13.5		13.5	1										1	
238	12"X18"	117+42	2'-0"	RTE. 231	21																		11.5		11.5	1										1	SIGN FACE TO BE REUSED ON NEW POST
				SUBTOTAL 4		0.36											388.44								567	41										41	

* BREAKAWAY ASSEMBLY IS INCIDENTAL FOR STRUCTURAL STEEL AND PIPE POSTS.
** BACKING BARS ARE TOTALED WITH STRUCTURAL STEEL OR PIPE POSTS.

ROUND PIPE POST AND FOOTING DATA TABLE

NOM.SIZE	WEIGHT		STUB LENGTH	FOOTING		CONCRETE
(IN.)	LBS/FT	LBS/IN		DIA.	DEPTH	C.Y.
2½	5.79	0.48	4'- 3½"	12"	4~6"	0.13
3	7.58	0.63	4'- 3½"	12"	4~6"	0.13
4	10.79	0.90	5'- 3½"	18"	5~6"	0.36

STRUCTURAL STEEL POST AND FOOTING DATA TABLE

POST DES. NO.	NOM. SIZE	POST WEIGHT LBS/FT	POST WEIGHT LBS/IN	POST STUB LENGTH	FOOTING DIA.	FOOTING LEVEL GROUND DEPTH	FOOTING LEVEL GROUND C.Y.	FOOTING 6:1 GRADE DEPTH	FOOTING 6:1 GRADE C.Y.	FOOTING 4:1 GRADE DEPTH	FOOTING 4:1 GRADE C.Y.	FOOTING 3:1 OR 2:1 GRADE DEPTH	FOOTING 3:1 OR 2:1 GRADE C.Y.
1	W6	9.0	0.75	3'-0"	15"	3'-0"	0.14	3'-2"	0.15	3'-3"	0.16	3'-6"	0.17
2	W6	15.0	1.25	4'-0"	24"	4'-0"	0.47	4'-2"	0.50	4'-3"	0.51	4'-6"	0.54
3	W8	18.0	1.50	4'-6"	28"	4'-6"	0.71	4'-8"	0.73	4'-9"	0.74	5'-0"	0.78
4	W10	22.0	1.83	5'-0"	36"	5'-0"	1.31	5'-2"	1.36	5'-3"	1.39	5'-6"	1.45
5	W10	26.0	2.17	5'-0"	36"	5'-0"	1.31	5'-3"	1.37	5'-5"	1.43	5'-9"	1.52
6	W12	35.0	2.92	5'-6"	36"	5'-6"	1.44	5'-9"	1.52	5'-11"	1.56	6'-3"	1.65

SIGN SUPPORTS
4 OF 7

SIGNING SHEETS
SHEET 35 OF 68

D-29

LAYOUT	NS	01/2025
DRAWN	SMC	01/2025
REVIEWED	DJK	01/2025

STATE OF MISSOURI
DENNIS J KOSCIELSKI
NUMBER PE-2005000712
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED
7/25/2025

ROUTE	STATE
231	MO
DISTRICT	SHEET NO.
SL	384

COUNTY
ST. LOUIS

JOB NO.
J6S3631

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION	DATE

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

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SIGNS						CONCRETE FOOTINGS EMBEDDED	STRUCTURAL STEEL POSTS *						PIPE POSTS *					BACKING BARS **				U-CHANNEL POST	PERFORATED SQUARE STEEL TUBE													EFFECTIVE 07-01-2024
902 SIGNAL SIGNS TABULATED ON D-37A SHEET																						2-IN. PSST POST						2.5-IN. POST								REMARKS AND OTHER REQUIRED ITEMS
																									ANCHORS					ANCHORS			BREAK-AWAY ASSEMBLY	
SIGN NO.	SIGN SIZE	STATION OR LOG MILE	HORZ CLEAR IF NOT STD	LOCATION	SIGN DTL. SHT. NO.	ITEM NO. 9031010	POST DES NO.	POST NO.1	POST NO.2	POST NO.3	LBS PER FT	TOTAL ITEM NO. 9031210	PIPE SIZE	POST NO.1	POST NO.2	LBS PER FT	TOTAL ITEM NO. 9031220	2" X 3/8" BARS @ 2.55 LBS PER FT NO.	LGTH	TOTAL	TOTAL	ITEM NO. 9031250A	POST NO.1	POST NO.2	TOTAL 2 IN. PSST POST-12 GA. ITEM NO. 9031270A	DRIVEN 12-GA. ITEM NO. 9031271A	DRIVEN 7-GA. ITEM NO. 9031273A	CONCRETE 7-GA. ITEM NO. 9031274	POST NO.1	POST NO.2	TOTAL ITEM NO. 9031280	2.25" INSERT (6 FT) ITEM NO. 9031272A	DRIVEN 7-GA. ITEM NO. 9031281A	CONCRETE 7-GA. ITEM NO. 9031285	ITEM NO. 9031241	
						CY		LF	LF	LF		LBS	IN.	LF	LF		LBS	EACH	IN.	LF	LBS	LF	LF	LF	LF	EA	EA	EA	LF	LF	LF	EA	EA	EA	EA	
240	36"X36"	118+39	4'-11"	RTE. 231	21																		14.5		14.5	1									1	
241	30"X18"			RTE. 231	21																															ASSEMBLY
242	12"	119+36	2'-0"	RTE. 231	21																		14.5		14.5	1									1	SIGN FACE TO BE REUSED ON NEW POST
243	12"			RTE. 231	21																															ASSEMBLY
244	SPECIAL			RTE. 231	21																															ASSEMBLY
245	SPECIAL			RTE. 231	21																															ASSEMBLY
246	36"X36"	119+32	7'-0"	RTE. 231	21																		13.5		13.5	1									1	SIGN FACE AND POST TO BE REMOVED AND REPLACED
247	36"X36"	119+38	11'-4"	RTE. 231	21																		13.5		13.5	1									1	SIGN FACE AND POST TO BE REMOVED AND REPLACED
248	12"	121+80	3'-6"	RTE. 231	22																		16.5		16.5	1									1	SIGN FACE TO BE REUSED ON NEW POST
249	12"			RTE. 231	22																															ASSEMBLY
250	16"X20"			RTE. 231	22																															ASSEMBLY
251	SPECIAL			RTE. 231	22																															ASSEMBLY
252	SPECIAL			RTE. 231	22																															ASSEMBLY
253	36"X36"	122+13	7'-5"	RTE. 231	22																		13.5		13.5	1									1	SIGN FACE TO BE REUSED ON NEW POST
254	12"	122+28	16'-0"	RTE. 231	22																		17.5		17.5	1									1	SIGN FACE TO BE REUSED ON NEW POST
255	12"			RTE. 231	22																															ASSEMBLY
256	36"X36"			RTE. 231	22																															SIGN FACE TO BE REMOVED AND REPLACED
257	SPECIAL			RTE. 231	22																															ASSEMBLY
258	SPECIAL			RTE. 231	22																															ASSEMBLY
259	12"X18"	124+49	4'-9"	RTE. 231	22																		11.5		11.5	1									1	SIGN FACE TO BE REUSED ON NEW POST
260	12"	124+98	3'-6"	RTE. 231	22																		14.5		14.5	1									1	SIGN FACE TO BE REUSED ON NEW POST
261	12"			RTE. 231	22																															ASSEMBLY
262	SPECIAL			RTE. 231	22																															ASSEMBLY
263	SPECIAL			RTE. 231	22																															ASSEMBLY
264	36"X36"	124+97	16'-4"	RTE. 231	22																		13.5		13.5	1									1	SIGN FACE AND POST TO BE REMOVED AND REPLACED
265	16"X20"	124+95	2'-0"	RTE. 231	22																		14		14	1									1	SIGN FACE TO BE REUSED ON NEW POST
266	12"X18"			RTE. 231	22																															ASSEMBLY
267	36"X36"	125+21	5'-2"	RTE. 231	23																		14		14	1									1	SIGN FACE TO BE REUSED ON NEW POST
268	12"	125+28	12'-1"	RTE. 231	23																		17.5		17.5	1									1	SIGN FACE TO BE REUSED ON NEW POST
269	12"			RTE. 231	23																															ASSEMBLY
270	36"X36"			RTE. 231	23																															SIGN FACE TO BE REMOVED AND REPLACED
271	SPECIAL			RTE. 231	23																															ASSEMBLY
272	SPECIAL			RTE. 231	23																															ASSEMBLY
273	36"X36"	126+37	5'-2"	RTE. 231	23																		13.5		13.5	1									1	SIGN FACE TO BE REUSED ON NEW POST
274	12"X18"	127+07	2'-0"	RTE. 231	23																		11.5		11.5	1									1	SIGN FACE TO BE REUSED ON NEW POST
275	36"X36"	127+08	5'-2"	RTE. 231	23																		14.5		14.5	1									1	
276	30"X18"			RTE. 231	23																															ASSEMBLY
277	SPECIAL	127+22	4'-5"	RTE. 231	23																															2X 4"X4" WOOD POST 15'-6", BURIED SIGN FACE TO BE REUSED ON NEW POST
278	12"	127+71	3'-2"	RTE. 231	23																		17.5		17.5	1									1	SIGN FACE TO BE REUSED ON NEW POST
279	12"			RTE. 231	23																															ASSEMBLY
280	36"X36"			RTE. 231	23																															SIGN FACE TO BE REMOVED AND REPLACED
281	SPECIAL			RTE. 231	23																															ASSEMBLY
282	SPECIAL			RTE. 231	23																															ASSEMBLY
283	16"X20"	128+22	2'-0"	RTE. 231	23																		14		14	1									1	SIGN FACE TO BE REUSED ON NEW POST
284	12"X18"			RTE. 231	23																															ASSEMBLY
285	36"X36"	128+28	10'-5"	RTE. 231	23																		13		13	1									1	SIGN FACE AND POST TO BE REMOVED AND REPLACED
287	36"X36"	129+45	4'-2"	RTE. 231	23																		15.5		15.5	1									1	
287A	18"X12"	129+45	4'-2"	RTE. 231	23																															ASSEMBLY
288	36"X36"	130+25	4'-10"	RTE. 231	24																		14		14	1									1	
289	12"	130+77	7'-2"	RTE. 231	24																		15.5		15.5	1									1	SIGN FACE TO BE REUSED ON NEW POST
290	12"			RTE. 231	24																															ASSEMBLY
291	36"X36"			RTE. 231	24																															SIGN FACE TO BE REMOVED AND REPLACED
292	36"X36"	131+09	5'-6"	RTE. 231	24																		13.5		13.5	1									1	
293	36"X36"	131+21	4'-0"	RTE. 231	24																															POST WILL BE USE IN PLACE SIGN FACE TO BE REMOVED AND REPLACED
294	36"X36"	132+32	5'-2"	RTE. 231	24																		14.5		14.5	1									1	
295	30"X18"			RTE. 231	24																															ASSEMBLY
297	36"X36"	132+43	5'-0"	RTE. 231	24																		15		15	1									1	
298	18"X12"			RTE. 231	24																															ASSEMBLY
299	36"X36"	132+71	5'-3"	RTE. 231	24																		15		15	1									1	
299A	18"X12"				24																															ASSEMBLY
			SUBTOTAL 5																					380	26									26	

* BREAKAWAY ASSEMBLY IS INCIDENTAL FOR STRUCTURAL STEEL AND PIPE POSTS.
** BACKING BARS ARE TOTALED WITH STRUCTURAL STEEL OR PIPE POSTS.

ROUND PIPE POST AND FOOTING DATA TABLE

NOM.SIZE	WEIGHT		STUB LENGTH	FOOTING		CONCRETE
(IN.)	LBS/FT	LBS/IN		DIA.	DEPTH	C.Y.
2½	5.79	0.48	4'- 3½"	12"	4–6"	0.13
3	7.58	0.63	4'- 3½"	12"	4–6"	0.13
4	10.79	0.90	5'- 3½"	18"	5–6"	0.36

STRUCTURAL STEEL POST AND FOOTING DATA TABLE

POST DES. NO.	NOM. SIZE	POST WEIGHT LBS/FT	POST WEIGHT LBS/IN	POST STUB LENGTH	FOOTING DIA.	FOOTING LEVEL GROUND DEPTH	FOOTING LEVEL GROUND C.Y.	FOOTING 6:1 GRADE DEPTH	FOOTING 6:1 GRADE C.Y.	FOOTING 4:1 GRADE DEPTH	FOOTING 4:1 GRADE C.Y.	FOOTING 3:1 OR 2:1 GRADE DEPTH	FOOTING 3:1 OR 2:1 GRADE C.Y.
1	W6	9.0	0.75	3'-0"	15"	3'-0"	0.14	3'-2"	0.15	3'-3"	0.16	3'-6"	0.17
2	W6	15.0	1.25	4'-0"	24"	4'-0"	0.47	4'-2"	0.50	4'-3"	0.51	4'-6"	0.54
3	W8	18.0	1.50	4'-6"	28"	4'-6"	0.71	4'-8"	0.73	4'-9"	0.74	5'-0"	0.78
4	W10	22.0	1.83	5'-0"	36"	5'-0"	1.31	5'-2"	1.36	5'-3"	1.39	5'-6"	1.45
5	W10	26.0	2.17	5'-0"	36"	5'-0"	1.31	5'-3"	1.37	5'-5"	1.43	5'-9"	1.52
6	W12	35.0	2.92	5'-6"	36"	5'-6"	1.44	5'-9"	1.52	5'-11"	1.56	6'-3"	1.65

LAYOUT	NS	01/2025
DRAWN	SMC	01/2025
REVIEWED	DJK	01/2025

SIGN SUPPORTS
5 OF 7

SIGNING SHEETS
SHEET 36 OF 68

D-29

STATE OF MISSOURI
DENNIS J. KOSCIELSKI
NUMBER PE-2005000712
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED
7/25/2025

ROUTE	STATE
231	MO
DISTRICT	SHEET NO.
SL	385

COUNTY
ST. LOUIS

JOB NO.
J6S3631

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION | DATE

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

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SIGNS						CONCRETE FOOTINGS EMBEDDED	STRUCTURAL STEEL POSTS *						PIPE POSTS *					BACKING BARS **				U-CHANNEL POST	PERFORATED SQUARE STEEL TUBE													EFFECTIVE 07-01-2024
902 SIGNAL SIGNS TABULATED ON D-37A SHEET																						2-IN. PSST POST						2.5-IN. POST							REMARKS AND OTHER REQUIRED ITEMS
SIGN NO.	SIGN SIZE	STATION OR LOG MILE	HORZ CLEAR IF NOT STD	LOCATION	SIGN DTL. SHT. NO.	ITEM NO. 9031010	POST DES NO.	POST NO.1	POST NO.2	POST NO.3	LBS PER FT	TOTAL ITEM NO. 9031210	PIPE SIZE	POST NO.1	POST NO.2	LBS PER FT	TOTAL ITEM NO. 9031220	2" X 3/8" BARS @ 2.55 LBS PER FT NO.	LGTH	TOTAL	TOTAL	ITEM NO. 9031250A	POST NO.1	POST NO.2	TOTAL 2 IN. PSST POST-12 GA. ITEM NO. 9031270A	ANCHORS DRIVEN 12-GA. ITEM NO. 9031271A	ANCHORS DRIVEN 7-GA. ITEM NO. 9031273A	ANCHORS CONCRETE 7-GA. ITEM NO. 9031274	POST NO.1	POST NO.2	TOTAL ITEM NO. 9031280	2.25" INSERT (6 FT) ITEM NO. 9031272A	ANCHORS DRIVEN 7-GA. ITEM NO. 9031281A	ANCHORS CONCRETE 7-GA. ITEM NO. 9031285	BREAK-AWAY ASSEMBLY ITEM NO. 9031241	
						CY		LF	LF	LF		LBS	IN.	LF	LF		LBS	EACH	IN.	LF	LBS	LF	LF	LF	LF	EA	EA	EA	LF	LF	LF	EA	EA	EA	EA	
300	36"X36"	133+45	3'-0"	RTE. 231	24																														POST WILL BE USE IN PLACE SIGN FACE TO BE REMOVED AND REPLACED
301	36"X36"	134+15	5'-9"	RTE. 231	24																		14		14	1									1	SIGN FACE AND POST TO BE REMOVED AND REPLACED
302	36"X36"	134+33	5'-0"	RTE. 231	24																		15		15	1									1	SIGN FACE TO BE REUSED ON NEW POST
303	24"X18"			RTE. 231	24																														ASSEMBLY
304	12"X18"	134+76	2'-0"	RTE. 231	24																		11.5		11.5	1									1	SIGN FACE TO BE REUSED ON NEW POST
305	12"X18"	135+25	2'-0"	RTE. 231	25																		11.5		11.5	1									1	SIGN FACE TO BE REUSED ON NEW POST
306	12"	135+55	6'-0"	RTE. 231	25																		14.5		14.5	1									1	SIGN FACE TO BE REUSED ON NEW POST
307	12"			RTE. 231	25																														ASSEMBLY
308	SPECIAL			RTE. 231	25																														ASSEMBLY
309	SPECIAL			RTE. 231	25																														ASSEMBLY
310	36"X36"	135+98	12'-9"	RTE. 231	25																		14		14	1									1	SIGN FACE TO BE REUSED ON NEW POST
311	18"X24"	135+92	7'-0"	RTE. 231	25																		12.5		12.5	1									1	SIGN FACE AND POST TO BE REMOVED AND REPLACED
312	12"X18"	136+05	2'-0"	RTE. 231	25																		11.5		11.5	1									1	
313	12"X18"	136+82	2'-0"	RTE. 231	25																		11.5		11.5	1									1	SIGN FACE TO BE REUSED ON NEW POST
314	36"X48"	137+15	5'-5"	RTE. 231	25																		14		14	1									1	SIGN FACE TO BE REUSED ON NEW POST
315	12"	137+04	5'-4"	RTE. 231	25																		17.5		17.5	1									1	SIGN FACE TO BE REUSED ON NEW POST
316	12"			RTE. 231	25																														ASSEMBLY
317	36"X36"			RTE. 231	25																														SIGN FACE TO BE REMOVED AND REPLACED
318	SPECIAL			RTE. 231	25																														ASSEMBLY
319	SPECIAL			RTE. 231	25																														ASSEMBLY
320	12"X18"	137+70	2'-0"	RTE. 231	25																		11.5		11.5	1									1	SIGN FACE TO BE REUSED ON NEW POST
321	12"X36"	137+82	7'-9"	RTE. 231	25																		13.5		13.5	1									1	SIGN FACE TO BE REUSED ON NEW POST
322	18"X24"	138+13	7'-3"	RTE. 231	25																		12.5		12.5	1									1	SIGN FACE TO BE REUSED ON NEW POST
323	12"X36"	138+54	7'-9"	RTE. 231	25																		13.5		13.5	1									1	SIGN FACE TO BE REUSED ON NEW POST
324	12"X18"	139+10	2'-0"	RTE. 231	25																		11.5		11.5	1									1	
325	16"X20"	139+37	2'-0"	RTE. 231	25																		12		12	1									1	SIGN FACE TO BE REUSED ON NEW POST
326	36"X12"	140+54	2'-10"	RTE. 231	26																		16.5		16.5	1									1	SIGN FACE TO BE REUSED ON NEW POST
327	36"X12"			RTE. 231	26																														ASSEMBLY
328	12"			RTE. 231	26																														ASSEMBLY
329	12"			RTE. 231	26																														ASSEMBLY
330	SPECIAL			RTE. 231	26																														ASSEMBLY
331	SPECIAL			RTE. 231	26																														ASSEMBLY
332	18"X12"	140+67	6'-1"	RTE. 231	26																		15		15	1									1	
332a	36"X36"	140+67																																	
333	12"X18"	140+88	2'-0"	RTE. 231	26																		11.5		11.5	1									1	SIGN FACE TO BE REUSED ON NEW POST
334	36"X36"	141+53	16'-9"	RTE. 231	26																		13.5		13.5	1									1	SIGN FACE AND POST TO BE REMOVED AND REPLACED
335	SPECIAL	143+57	12'-9"	RTE. 231	26																		12		12	1									1	SIGN FACE TO BE REUSED ON NEW POST
336	SPECIAL			RTE. 231	26																														ASSEMBLY
337	16"X20"	140+40	2'-0"	RTE. 231	26																		14		14	1									1	SIGN FACE TO BE REUSED ON NEW POST
338	12"X18"			RTE. 231	26																														ASSEMBLY
339	36"X36"	144+56	4'-9"	RTE. 231	26																		15		15	1									1	
340	18"X12"	144+56	4'-9"	RTE. 231	26																														ASSEMBLY
341	36"X48"	144+65	5'-9"	RTE. 231	26																		14		14	1									1	SIGN FACE AND POST TO BE REMOVED AND REPLACED
342	24"X12"	145+15	6'-4"	RTE. 231	26																		14		14	1									1	SIGN FACE AND POST TO BE REMOVED AND REPLACED
343	30"X24"			RTE. 231	26																														ASSEMBLY
344	36"X48"	145+74	5'-5"	RTE. 231	27																		14		14	1									1	SIGN FACE TO BE REUSED ON NEW POST
345	36"X36"	145+89	4'-11"	RTE. 231	27																		15		15	1									1	
346	18"X12"	145+89	4'-11"	RTE. 231	27																														ASSEMBLY
347	12"X18"	146+52	2'-0"	RTE. 231	27																		11.5		11.5	1									1	SIGN FACE TO BE REUSED ON NEW POST
348	36"X30"	146+01	5'-10"	RTE. 231	27																		12.5		12.5	1									1	
349	16"X20"	150+30	2'-0"	RTE. 231	28																		12		12	1									1	SIGN FACE TO BE REUSED ON NEW POST
350	36"X36"	151+72	4'-9"	RTE. 231	28																		13.5		13.5	1									1	SIGN FACE AND POST TO BE REMOVED AND REPLACED
351	16"X20"	152+20	2'-0"	RTE. 231	28																		12		12	1									1	SIGN FACE TO BE REUSED ON NEW POST
352	36"X36"	154+08	2'-0"	RTE. 231	28																		15		15	1									1	SIGN FACE AND POST TO BE REMOVED AND REPLACED
354	36"X36"	155+29	11'-3"	RTE. 231	29																		13.5		13.5	1									1	SIGN FACE AND POST TO BE REMOVED AND REPLACED
355	12"X18"	156+27	2'-0"	RTE. 231	29																		11.5		11.5	1									1	
356	12"X18"	156+43	2'-0"	RTE. 231	29																		11.5		11.5	1									1	
357	24"X18"	159+82	6'-0"	RTE. 231	29																		11.5		11.5	1									1	
358	36"X36"	OMITTED		RTE. 231	29																														SIGN NOT USED
359	24"X18"	159+90	3'-10"	RTE. 231	29																		11.5		11.5	1									1	
				SUBTOTAL 6																					512.5	39									39	

* BREAKAWAY ASSEMBLY IS INCIDENTAL FOR STRUCTURAL STEEL AND PIPE POSTS.
** BACKING BARS ARE TOTALED WITH STRUCTURAL STEEL OR PIPE POSTS.

ROUND PIPE POST AND FOOTING DATA TABLE

NOM.SIZE	WEIGHT		STUB LENGTH	FOOTING		CONCRETE
(IN.)	LBS/FT	LBS/IN		DIA.	DEPTH	C.Y.
2½	5.79	0.48	4'- 3½"	12"	4~6"	0.13
3	7.58	0.63	4'- 3½"	12"	4~6"	0.13
4	10.79	0.90	5'- 3½"	18"	5~6"	0.36

STRUCTURAL STEEL POST AND FOOTING DATA TABLE

POST DES. NO.	NOM. SIZE	POST WEIGHT LBS/FT	POST WEIGHT LBS/IN	POST STUB LENGTH	FOOTING DIA.	FOOTING LEVEL GROUND DEPTH	FOOTING LEVEL GROUND C.Y.	FOOTING 6:1 GRADE DEPTH	FOOTING 6:1 GRADE C.Y.	FOOTING 4:1 GRADE DEPTH	FOOTING 4:1 GRADE C.Y.	FOOTING 3:1 OR 2:1 GRADE DEPTH	FOOTING 3:1 OR 2:1 GRADE C.Y.
1	W6	9.0	0.75	3'-0"	15"	3'-0"	0.14	3'-2"	0.15	3'-3"	0.16	3'-6"	0.17
2	W6	15.0	1.25	4'-0"	24"	4'-0"	0.47	4'-2"	0.50	4'-3"	0.51	4'-6"	0.54
3	W8	18.0	1.50	4'-6"	28"	4'-6"	0.71	4'-8"	0.73	4'-9"	0.74	5'-0"	0.78
4	W10	22.0	1.83	5'-0"	36"	5'-0"	1.31	5'-2"	1.36	5'-3"	1.39	5'-6"	1.45
5	W10	26.0	2.17	5'-0"	36"	5'-0"	1.31	5'-3"	1.37	5'-5"	1.43	5'-9"	1.52
6	W12	35.0	2.92	5'-6"	36"	5'-6"	1.44	5'-9"	1.52	5'-11"	1.56	6'-3"	1.65

SIGN SUPPORTS
6 OF 7

SIGNING SHEETS
SHEET 37 OF 68

D-29

LAYOUT	NS	01/2025
DRAWN	SMC	01/2025
REVIEWED	DJK	01/2025

STATE OF MISSOURI
DENNIS J. KOSCIELSKI
NUMBER PE-2005000712
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED
7/25/2025

ROUTE	STATE
231	MO
DISTRICT	SHEET NO.
SL	386

COUNTY
ST. LOUIS

JOB NO.
J6S3631

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION | DATE

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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JEFFERSON CITY, MO 65102
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* BREAKAWAY ASSEMBLY IS INCIDENTAL FOR STRUCTURAL STEEL AND PIPE POSTS.
** BACKING BARS ARE TOTALED WITH STRUCTURAL STEEL OR PIPE POSTS.

* BREAKAWAY ASSEMBLY IS INCIDENTAL FOR STRUCTURAL STEEL AND PIPE POSTS.
** BACKING BARS ARE TOTALED WITH STRUCTURAL STEEL OR PIPE POSTS.

EFFECTIVE 07-01-2024

SIGNS						CONCRETE FOOTINGS EMBEDDED	STRUCTURAL STEEL POSTS *						PIPE POSTS *					BACKING BARS **				U-CHANNEL POST	PERFORATED SQUARE STEEL TUBE													REMARKS AND OTHER REQUIRED ITEMS
																							2-IN. PSST POST						2.5-IN. POST						BREAK-AWAY ASSEMBLY	
902 SIGNAL SIGNS TABULATED ON D-37A SHEET																		2" X 3/8" BARS @ 2.55 LBS PER FT																			
SIGN NO.	SIGN SIZE	STATION OR LOG MILE	HORZ CLEAR IF NOT STD	LOCATION	SIGN DTL. SHT. NO.	ITEM NO. 9031010	POST DES NO.	POST NO.1	POST NO.2	POST NO.3	LBS PER FT	TOTAL ITEM NO. 9031210	PIPE SIZE	POST NO.1	POST NO.2	LBS PER FT	TOTAL ITEM NO. 9031220	NO.	LGTH	TOTAL	TOTAL	ITEM NO. 9031250A	POST NO.1	POST NO.2	TOTAL 2 IN. PSST POST-12 GA. ITEM NO. 9031270A	ANCHORS DRIVEN 12-GA. ITEM NO. 9031271A	ANCHORS DRIVEN 7-GA. ITEM NO. 9031273A	ANCHORS CONCRETE 7-GA. ITEM NO. 9031274	POST NO.1	POST NO.2	TOTAL ITEM NO. 9031280	2.25" INSERT (6 FT) ITEM NO. 9031272A	ANCHORS DRIVEN 7-GA. ITEM NO. 9031281A	ANCHORS CONCRETE 7-GA. ITEM NO. 9031285	ITEM NO. 9031241	
					CY			LF	LF	LF		LBS	IN.	LF	LF		LBS	EACH	IN.	LF	LBS	LF	LF	LF	LF	EA	EA	EA	LF	LF	LF	EA	EA	EA	EA	
361	36"X36"	160+75	5'-4"	RTE. 231	30																		13		13	1									1	SIGN FACE AND POST TO BE REMOVED AND REPLACED
362	36"X36"	161+29	8'-7"	RTE. 231	30																		13.5		13.5	1									1	SIGN FACE AND POST TO BE REMOVED AND REPLACED
363	36"X9"	161+42	2'-0"	RTE. 231	30																		14		14	1									1	SIGN FACE TO BE REUSED ON NEW POST
364	36"X9"			RTE. 231	30																															ASSEMBLY
365	12"			RTE. 231	30																															ASSEMBLY
366	12"			RTE. 231	30																															ASSEMBLY
367	30"X24"	161+95	2'-0"	RTE. 231	30																		14		14	1									1	
368	12"X18"			RTE. 231	30																															ASSEMBLY
369	30"X24"	162+20	5'-5"	RTE. 231	30																		12.5		12.5	1									1	
370	36"X48"	163+21	4'-10"	RTE. 231	30																		14		14	1									1	SIGN FACE TO BE REUSED ON NEW POST
371	36"X9"	164+87	2'-0"	RTE. 231	30																		14		14	1									1	SIGN FACE TO BE REUSED ON NEW POST
372	36"X9"			RTE. 231	30																															ASSEMBLY
373	12"			RTE. 231	30																															ASSEMBLY
374	12"			RTE. 231	30																															ASSEMBLY
375	36"X36"	164+88	7'-0"	RTE. 231	30																		13.5		13.5	1									1	SIGN FACE AND POST TO BE REMOVED AND REPLACED
376	16"X20"	165+43	9'-4"	RTE. 231	30																		12		12	1									1	SIGN FACE TO BE REUSED ON NEW POST
377	12"X18"	166+24	2'-0"	RTE. 231	30																		11.5		11.5	1									1	
378	16"X20"	166+38	2'-0"	RTE. 231	31																		12		12	1									1	SIGN FACE TO BE REUSED ON NEW POST
379	24"X12"	166+38	2'-0"	RTE. 231	31																		16		16	1									1	SIGN FACE TO BE REUSED ON NEW POST
380	30"X24"			RTE. 231	31																															ASSEMBLY
381	48"X24"			RTE. 231	31																															ASSEMBLY
382	24"X36"	45+02	6'-6"	RTE. 231	7																		13.5		13.5	1									1	
383	12"X36"	66+33	8'-9"	RTE. 231	11																		14		14	1									1	SIGN FACE TO BE REUSED ON NEW POST
384	24"X18"	70+74	6'-2"	RTE. 231	12																		15		15	1									1	
385	36"X36"	OMITTED		RTE. 231	12																															SIGN NOT USED
386	36"X48"	72+27	6'-0"	RTE. 231	12																		14		14	1									1	SIGN FACE AND POST TO BE REMOVED AND REPLACED
387	24"X18"	86+99	6'-1"	RTE. 231	15																		12.5		12.5	1									1	
388	36"X36"	OMITTED		RTE. 231	15																															SIGN NOT USED
389	12"X18"	90+18	2'-0"	RTE. 231	16																		11.5		11.5	1									1	SIGN FACE TO BE REUSED ON NEW POST
390	36"X48"	100+59	7'-4"	RTE. 231	18																		14.5		14.5	1									1	SIGN FACE AND POST TO BE REMOVED AND REPLACED
391	24"X18"	101+70	7'-11"	RTE. 231	18																		11.5		11.5	1									1	
392	36"X36"	OMITTED		RTE. 231	18																															SIGN NOT USED
393	30"X30"	105+69	5'-5"	RTE. 231	19																		13		13	1									1	SIGN FACE AND POST TO BE REMOVED AND REPLACED
394	24"X30"	105+99	6'-2"	RTE. 231	19																		14		14	1									1	SIGN FACE AND POST TO BE REMOVED AND REPLACED
395	21"X15"			RTE. 231	19																															ASSEMBLY
396	12"X18"	112+22	2'-0"	RTE. 231	20																		11.5		11.5	1									1	SIGN FACE TO BE REUSED ON NEW POST
397	12"X18"	119+51	2'-0"	RTE. 231	21																		11.5		11.5	1									1	SIGN FACE TO BE REUSED ON NEW POST
398	36"X36"	120+12	6'-3"	RTE. 231	22																		15		15	1									1	
399	36"X36"	60+93	7'-1"	RTE. 231	22																		11.5		11.5	1										ASSEMBLY
399a	18"X12"	60+93	7'-1"	RTE. 231	22																															
400	36"X36"	124+13	5'-2"	RTE. 231	22																		14.5		14.5	1									1	
401	30"X18"			RTE. 231	22																															ASSEMBLY
402	12"X18"	127+13	2'-0"	RTE. 231	23																		11.5		11.5	1									1	SIGN FACE TO BE REUSED ON NEW POST
403	12"X18"	127+62	2'-0"	RTE. 231	23																		11.5		11.5	1									1	SIGN FACE TO BE REUSED ON NEW POST
404	36"X48"	133+99	5'-5"	RTE. 231	24																		14		14	1									1	
405	18"X24"	135+58	2'-0"	RTE. 231	25																															SIGN TO BE REMOVED AND REPLACED ON EXISTING UTILITY POLE
406	18"X24"	136+33	2'-0"	RTE. 231	25																															SIGN TO BE REMOVED AND REPLACED ON EXISTING UTILITY POLE
407	48"X24"	136+95	5'-9"	RTE. 231	25																		12.5		12.5	1									1	SIGN FACE AND POST TO BE REMOVED AND REPLACED
408	48"X24"	136+97	5'-9"	RTE. 231	25																		12.5		12.5	1									1	SIGN FACE AND POST TO BE REMOVED AND REPLACED
408a	24"X18"	137+55	7'-0"	RTE. 231	25																															SIGN TO BE REMOVED AND REPLACED ON EXISTING UTILITY POLE
408b	24"X18"	137+55	7'-0"	RTE. 231	25																															SIGN TO BE REMOVED AND REPLACED ON EXISTING UTILITY POLE
409	36"X36"	141+55	2'-0"	RTE. 231	26																															SIGN TO BE REMOVED AND REPLACED ON EXISTING UTILITY POLE
410	24"X24"			RTE. 231	26																															SIGN TO BE REMOVED AND REPLACED ON EXISTING UTILITY POLE
411	24"X18"	146+83	2'-4"	RTE. 231	27																		11.5		11.5	1									1	
413	24"X12"	165+86	7'-4"	RTE. 231	31																		14		14	1									1	
414	30"X24"			RTE. 231	31																															ASSEMBLY
415	30"X30"	145+10	6'-5"	RTE. 231	26																		13		13	1									1	
416	36"x36"	61+66	12'-5"	RTE. 231	10																		13.5		13.5	1									1	SIGN FACE AND POST TO BE REMOVED AND REPLACED
SUBTOTAL SHEET 1						0.16					288														490	38									38	
SUBTOTAL SHEET 2						0.36										356.07									484	37									37	
SUBTOTAL SHEET 3																									614	46									46	
SUBTOTAL SHEET 4						0.36										388.44									567	41									41	
SUBTOTAL SHEET 5																									380	26									26	
SUBTOTAL SHEET 6																									515.5	39									39	
SUBTOTAL SHEET 7																									469.5	35									35	
				TOTAL		0.88					288					744.51									3520	262									262	
				PAY TOTAL		0.90					290					750.00									3520	262									262	

LAYOUT	NS	01/2025
DRAWN	SMC	01/2025
REVIEWED	DJK	01/2025

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED 7/25/2025

ROUTE	STATE
231	MO
DISTRICT	SHEET NO.
SL	387

COUNTY: ST. LOUIS
JOB NO.: J6S3631
CONTRACT ID.:
PROJECT NO.:
BRIDGE NO.:

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

DESCRIPTION | DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

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St. Louis, Missouri 63101
Professional Engineer 001632
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SIGN SUPPORTS
7 OF 7

SIGNING SHEETS
SHEET 38 OF 68

D-29

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EFFECTIVE 10-01-2016

STANDARD SIGN ASSEMBLIES

SIGN NUMBER	STATION	LOCATION	TYPE																																				
			SH	SH	SH	SH	SH	SH	SH	SH	SH	SH	SH	SH	SH	SH	SHF	SHF	SHF	SH	SHF	SHF	SHF	SHF	SHF	SHF	SHF	SH	SH	SH	SH	SH	SH	SH	SHF	SH		
			SIGN DESCRIPTION, SIZES & NUMBER OF EACH																																				
			R1-1	R2-1	R2-1	R1-5	R3-7R	R3-8RR	R3-9b	R3-17	R4-4	R4-7	R7-1D	R7-1L	R7-1R	W11-1	W11-2	W16-9P	R3-17	W12-1	W2-1L	W3-5	W1-1L	W13-1P	W1-6	W1-8	M17-7	M3-1	M3-3	M1-5	M6-2L	M17-2a	M5-1R	S1-1	W16-1P		
			36"X36"	36"X48"	36"X48"	36"X36"	30"X30"	30"X30"	24"X36"	30"X24"	36"X30"	24"X30"	18"X24"	18"X24"	18"x24"	36"X36"	36"X36"	30"X18"	24"X18"	36"X36"	36"X36"	36"x36"	36"x36"	24"X24"	48"X24"	18"x24"	18"X24"	24"x12"	24"X12"	30"X24"	21"x15"	24"X30"	21"X15"	36"X36"	18"X12"		
1	14+08	RTE. 231			1																																		
2	14+41	RTE. 231							1																														
3	15+17	RTE. 231							1																														
4	15+84	RTE. 231											1																										
5	16+09	RTE. 231	1																																				
10	18+75	RTE. 231															1																						
11	18+75	RTE. 231																1																					
12	18+74	RTE. 231							1																														
14	19+14	RTE. 231							1																														
15	OMITTED	RTE. 231																																					
16	14+14	RTE. 231																	1																				
17	19+98	RTE. 231				1																																	
18	20+08	RTE. 231										1																											
19	20+33	RTE. 231										1																											
20	20+45	RTE. 231				1																																	
26	21+30	RTE. 231	1																																				
27	24+19	RTE. 231															1																						
28	24+19	RTE. 231																1																					
29	24+12	RTE. 231							1																														
30	OMITTED	RTE. 231																																					
31	24+19	RTE. 231																	1																				
33	25+44	RTE. 231							1																														
35	25+86	RTE. 231			1																																		
36	26+30	RTE. 231	1																																				
45	29+10	RTE. 231	1																																				
52	29+99	RTE. 231							1																														
53	30+42	RTE. 231							1																														
54	33+79	RTE. 231							1																														
55	OMITTED	RTE. 231																																					
56	34+52	RTE. 231																	1																				
57	34+67	RTE. 231							1																														
58	36+49	RTE. 231																																					
59	36+49	RTE. 231																	1																				
65	42+22	RTE. 231							1																														
66	OMITTED	RTE. 231																																					
67	43+75	RTE. 231																	1																				
68	45+31	RTE. 231	1																																				
69	OMITTED	RTE. 231																																					
70	46+53	RTE. 231																	1																				
71	47+29	RTE. 231																		1																			
72	51+49	TELEGRAPH RD						1																															
78	51+18	RTE. 231	1																																				
79	50+58	RTE. 231	1																																				
80	OMITTED	RTE. 231																																					
81	51+87	RTE. 231																	1																				
82	51+96	RTE. 231							1																														
83	52+61	RTE. 231	1																																				
84	OMITTED	RTE. 231																																					
85	54+57	RTE. 231																	1																				
86	55+04	RTE. 231							1																														
87	55+19	RTE. 231							1																														
88	55+44	RTE. 231	1																																				
97	57+84	RTE. 231	1																																				
99	59+45	RTE. 231							1																														
100	60+23	RTE. 231			1																																		
101	OMITTED	RTE. 231																																					
		SUBTOTAL 1	10		3	2		1	15			2	1				2	2	8	1																			

SIGN ASSEMBLY
1 OF 5

SIGNING SHEETS
SHEET 39 OF 68

D-30

STATE OF MISSOURI
DENNIS J. KOSCIELSKI
NUMBER PE-2005000712
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED
7/25/2025

ROUTE	STATE
231	MO
DISTRICT	SHEET NO.
SL	388

COUNTY
ST. LOUIS

JOB NO.
J6S3631

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

DESCRIPTION	DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

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Professional Engineer 001632
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314.770.0467

LAYOUT	NS	01/2025
DRAWN	SMC	01/2025
REVIEWED	DJK	01/2025

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EFFECTIVE 10-01-2016

STANDARD SIGN ASSEMBLIES

SIGN NUMBER	STATION	LOCATION	TYPE	R1-1	R2-1	R2-1	R1-5	R3-7R	R3-8RR	R3-9b	R3-17	R4-4	R4-7	R7-1D	R7-1L	R7-1R	W11-1	W11-2	W16-9P	R3-17	W6-1L	W2-1L	W3-5	W1-1L	W13-1P	W1-6	W1-8	M17-7	M3-1	M3-3	M1-5	M6-2L	M17-2a	M5-1R	S1-1	W16-1P
				SH	SH	SH	SH	SH	SH	SH	SH	SH	SH	SH	SH	SH	SHF	SHF	SHF	SH	SHF	SHF	SHF	SHF	SHF	SHF	SHF	SH	SH	SH	SH	SH	SH	SH	SHF	SH
			SIGN DESCRIPTION, SIZES & NUMBER OF EACH	36"X36"	36"X48"	36"X48"	36"X36"	30"X30"	30"X30"	24"X36"	30"X24"	36"X30"	24"X30"	18"X24"	18"X24"	18"x24"	36"X36"	36"X36"	30"X18"	24"X18"	36"X36"	36"X36"	36"x36"	36"x36"	24"X24"	48"X24"	18"x24"	18"X24"	24"x12"	24"X12"	30"X24"	21"x15"	24"X30"	21"X15"	36"X36"	18"X12"
102	60+93	RTE. 231																		1																
105	61+98	RTE. 231								1																										
106	62+70	RTE. 231																												1						
107	62+70	RTE. 231																													1					
108	63+96	RTE. 231								1																										
109	64+11	RTE. 231								1																										
110	64+66	RTE. 231	1																																	
116	65+87	RTE. 231													1																					
117	66+03	RTE. 231													1																					
118	OMITTED	RTE. 231																																		
119	67+64	RTE. 231																		1																
124	67+48	RTE. 231	1																																	
125	67+89	RTE. 231												1																						
128	69+29	RTE. 231												1																						
129	68+38	RTE. 231								1																										
130	69+72	RTE. 231																1																		
131	69+72	RTE. 231																	1																	
132	69+98	RTE. 231	1																																	
133	71+02	RTE. 231				1																														
134	71+10	RTE. 231											1																							
135	71+39	RTE. 231											1																							
136	71+48	RTE. 231				1																														
137	72+01	RTE. 231												1																						
138	72+08	RTE. 231								1																										
140	72+52	RTE. 231																1																		
141	72+52	RTE. 231																	1																	
142	72+67	RTE. 231	1																																	
143	74+85	RTE. 231												1																						
144	75+38	RTE. 231	1																																	
145	76+64	RTE. 231								1																										
147	76+97	RTE. 231												1																						
148	77+47	RTE. 231								1																										
151	78+08	RTE. 231	1																																	
152	OMITTED	RTE. 231																																		
153	80+44	RTE. 231																		1																
154	80+80	RTE. 231	1																																	
155	81+68	RTE. 231								1																										
156	81+79	RTE. 231								1																										
158	82+75	RTE. 231													1																					
163	83+30	RTE. 231	1																																	
165	84+58	RTE. 231								1																										
168	85+23	RTE. 231								1																										
169	85+81	RTE. 231	1																																	
176	89+43	RTE. 231											1																							
177	89+72	RTE. 231											1																							
182	90+67	RTE. 231	1																																	
183	91+72	RTE. 231								1																										
185	92+83	RTE. 231								1																										
189	96+55	RTE. 231																					1													
190	96+72	RTE. 231								1																										
190a	96+05	RTE. 231				1								1																						
190b	97+63	RTE. 231				1										1																				
193	97+75	RTE. 231																												1						
194	97+75	RTE. 231																													1					
195	97+85	RTE. 231								1																										
196	OMITTED	RTE. 231																																		
197	98+47	RTE. 231																		1																
198	99+29	RTE. 231																										1								
		SUBTOTAL 2	10			4			15			4	5	3			2	2	4			1					1		2	2					

SIGN ASSEMBLY
2 OF 5

SIGNING SHEETS
SHEET 40 OF 68

D-30

LAYOUT	NS	01/2025
DRAWN	SMC	01/2025
REVIEWED	DJK	01/2025

STATE OF MISSOURI
DENNIS J. KOSCIELSKI
NUMBER PE-2005000712
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED
7/25/2025

ROUTE	STATE
231	MO
DISTRICT	SHEET NO.
SL	389

COUNTY
ST. LOUIS

JOB NO.
J6S3631

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

DESCRIPTION	DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

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Professional Engineer 001632
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314.770.0467

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STANDARD SIGN ASSEMBLIES

| SIGN NUMBER | STATION | LOCATION | TYPE | SIGN DESCRIPTION, SIZES & NUMBER OF EACH | | |

EFFECTIVE 10-01-2016

STANDARD SIGN ASSEMBLIES

SIGN NUMBER	STATION	LOCATION	TYPE	R1-1	R2-1	R2-1	R1-5	R3-7R	R3-8RR	R3-9b	R3-17	R4-4	R4-7	R7-1D	R7-1L	R7-1R	W11-1	W11-2	W16-9P	R3-17	W6-1L	W2-1L	W3-5	W1-1L	W13-1P	W1-6	W1-8	M17-7	M3-1	M3-3	M1-5	M6-2L	M17-2a	M5-1R	S1-1	W16-1P
				SH	SH	SH	SH	SH	SH	SH	SH	SH	SH	SH	SH	SH	SHF	SHF	SHF	SH	SHF	SHF	SHF	SHF	SHF	SHF	SHF	SH	SH	SH	SH	SH	SH	SH	SHF	SH
			SIGN DESCRIPTION, SIZES & NUMBER OF EACH																																	
				36"X36"	36"X48"	36"X48"	36"X36"	30"X30"	30"X30"	24"X36"	30"X24"	36"X30"	24"X30"	18"X24"	18"X24"	18"x24"	36"X36"	36"X36"	30"X18"	24"X18"	36"X36"	36"X36"	36"x36"	36"x36"	24"X24"	48"X24"	18"x24"	18"X24"	24"X12"	24"X12"	30"X24"	21"x15"	24"X30"	21"X15"	36"X36"	18"X12"
342	142+15	RTE. 231																										1								
343	142+15	RTE. 231																												1						
345	145+89	RTE. 231															1																			
346	145+89	RTE. 231																																		1
348	146+01	RTE. 231										1																								
350	151+72	RTE. 231	1																																	
350a	150+69	RTE. 231																		1																
352	154+08	RTE. 231																																	1	
354	155+29	RTE. 231	1																																	
355	156+27	RTE. 231												1																						
356	159+43	RTE. 231												1																						
357	OMITTED	RTE. 231																																		
358	159+82	RTE. 231																		1																
359	OMITTED	RTE. 231																																		
360	159+90	RTE. 231																		1																
361	160+75	RTE. 231																																	1	
362	161+29	RTE. 231	1																																	
367	161+95	RTE. 231									1																									
368	161+95	RTE. 231												1																						
369	162+20	RTE. 231									1																									
375	164+88	RTE. 231	1																																	
377	166+24	RTE. 231												1																						
382	45+02	RTE. 231								1																										
384	OMITTED	RTE. 231																																		
385	60+93	RTE. 231																		1																
386	72+27	RTE. 231			1																															
387	OMITTED	RTE. 231																																		
388	86+99	RTE. 231																		1																
390	100+59	RTE. 231			1																															
391	OMITTED	RTE. 231																																		
392	101+70	RTE. 231																		1																
393	105+69	RTE. 231					1																													
394	105+99	RTE. 231																																1		
395	105+99	RTE. 231																																	1	
399	120+12	RTE. 231															1																			
399a	120+12	RTE. 231																																		1
400	124+13	RTE. 231																1																		
401	124+13	RTE. 231																	1																	
404	133+99	RTE. 231			1																															
405	135+58	RTE. 231																										1								
405a	135+58	RTE. 231																										1								
406	136+33	RTE. 231																										1								
406a	136+33	RTE. 231																										1								
407	137+01	RTE. 231																								1										
408	137+04	RTE. 231																								1										
408a	137+04	RTE. 231																										1								
408b	137+04	RTE. 231																										1								
409	141+55	RTE. 231																						1												
410	141+55	RTE. 231																							1											
411	OMITTED	RTE. 231																																		
412	143+83	RTE. 231																		1																
413	165+86	RTE. 231																													1					
414	165+86	RTE. 231																														1				
415	145+10	RTE. 231					1																													
416	61+66	RTE. 231	1																																	
		SUBTOTAL 1	10		3	2		1	15			2	1				2	2	8	1																
		SUBTOTAL 2	10			4			15			4	5	3		1	9	2	2	4			1					1		2	2					
		SUBTOTAL 3	18	1		6			2	1	1		3		1	9	4	4	1		1						2					1				9
		SUBTOTAL 4	5	1	2		2		1	2	1		4			2	1	1	6				1	1	2	6		1	1	2		1	1	2	2
		TOTAL	43	2	5	12	2	1	33	3	2	6	13	3	1	11	9	9	19	1	1	1	1	1	2	8	1	1	3	4	1	1	1	2	11

LAYOUT	NS	01/2025
DRAWN	SMC	01/2025
REVIEWED	DJK	01/2025

STATE OF MISSOURI
DENNIS J KOSCIELSKI
NUMBER PE-2005000712
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED
7/25/2025

ROUTE	STATE
231	MO
DISTRICT	SHEET NO.
SL	391

COUNTY
ST. LOUIS

JOB NO.
J6S3631

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

DESCRIPTION	DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

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Professional Engineer 001632
www.hanson-inc.com
314.770.0467

SIGN ASSEMBLY
4 OF 5

SIGNING SHEETS
SHEET 42 OF 68

D-30

I:\22jobs\22H0100\CAD\Road\Sheet\391_SN_42_J6S3631_I1_D30_04.dgn

SIGN SUMMARY

STANDARD SIGN OR SPECIAL SIGN NUMBER	SIGN DETAIL SHEET NO.	NO. EACH	SIZE, TYPE & SQUARE FEET				
			SIZE (SQFT)	SH-FLAT SHEET ITEM NO. 9035004A	SHF-FLAT SHEET FLUORESCENT * ITEM NO. 9035069A	ST-STRUCTURAL ITEM NO. 9035011A	STF-STRUCTURAL FLUORESCENT * ITEM NO. 9035071A
R1-1		43	9	387			
R2-1		2	12	24			
R2-1		5	12	60			
R1-5		12	9	108			
R3-7R		2	6.25	12.5			
R3-8RR		1	6.25	6.25			
R3-9b		33	6	198			
R3-17		3	5	15			
R4-4		2	7.5	15			
R4-7		6	5	30			
R7-1D		13	3	39			
R7-1L		3	3	9			
R7-1R		1	3	3			
W11-2		9	9		81		
W16-9P		9	3.75		33.75		
R3-17		22	3	66			
W6-1L		1	9		9		
W2-1L		1	9		9		
W3-5		1	9		9		
W1-1L		1	9		9		
W13-1P		1	4		4		
W1-6		2	8		16		
W1-8		8	3		24		
M17-7		1	3	3			
M3-1		1	2	2			
M3-3		3	2	6			
M1-5		4	5	20			
M6-2L		1	2.1875	2.1875			
M17-2a		1	5	5			
M5-1R		1	2.1875	2.1875			
S1-1		2	9		18		
W11-1		11	9		99		
W16-1P		11	1.5		16.5		
			TOTAL	1013.125	328.25		
			PAY TOTAL	1014.000	329.00		

* ORANGE, YELLOW & YELLOW/GREEN

SIGN ASSEMBLY
5 OF 5

SIGNING SHEETS
SHEET 43 OF 68

D-30

STATE OF MISSOURI
DENNIS J KOSCIELSKI
NUMBER PE-2005000712
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED
7/25/2025

ROUTE	STATE
231	MO
DISTRICT	SHEET NO.
SL	392

COUNTY
ST. LOUIS

JOB NO.
J6S3631

CONTRACT ID.

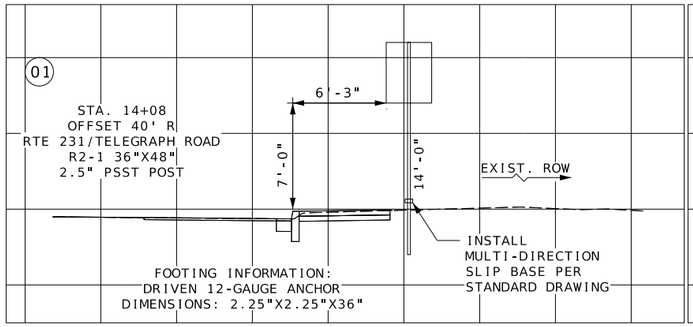
PROJECT NO.

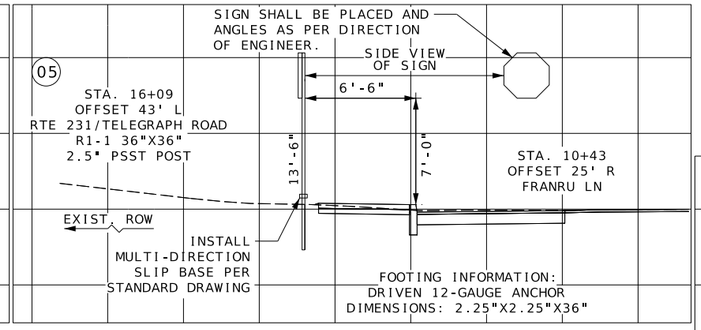
BRIDGE NO.

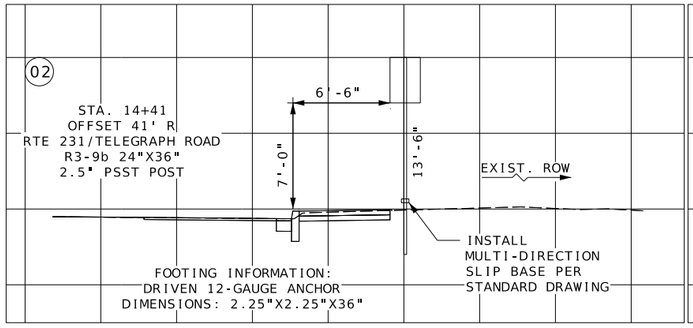
DESCRIPTION	DATE

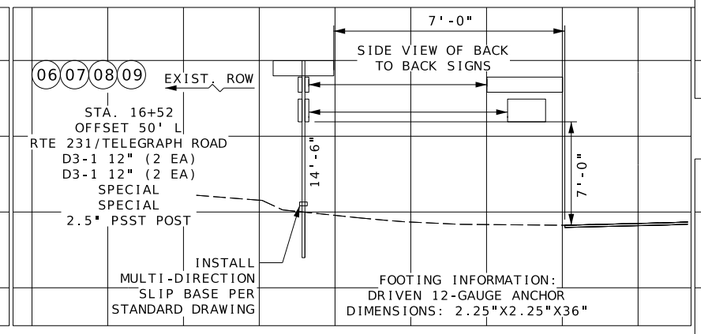
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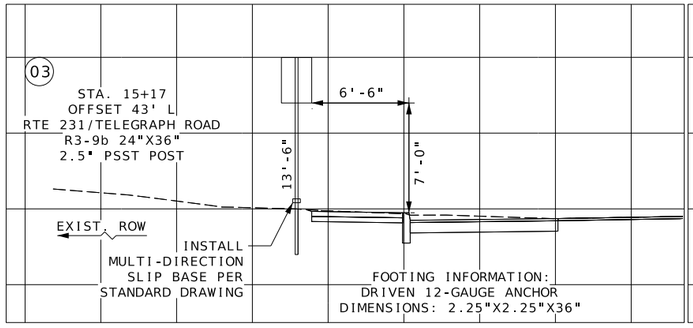
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105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

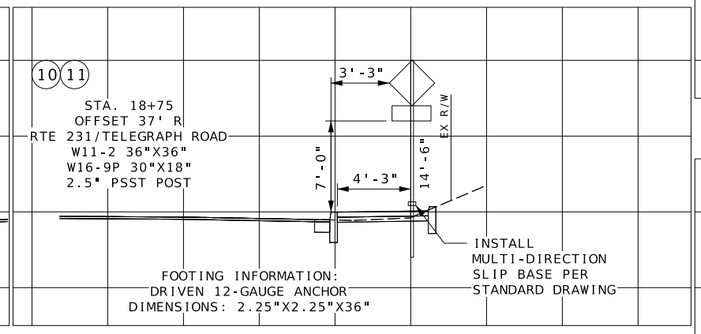


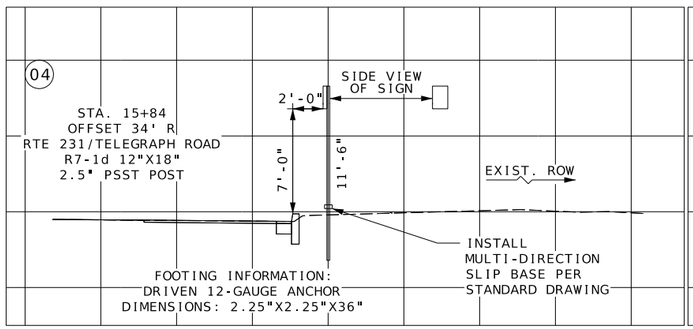


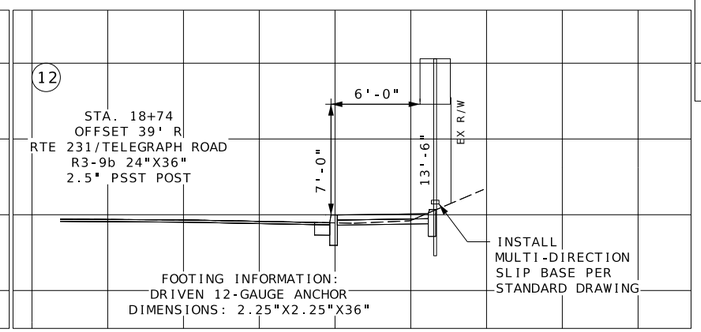


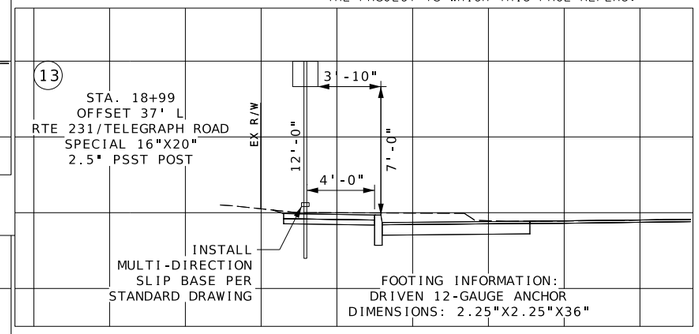


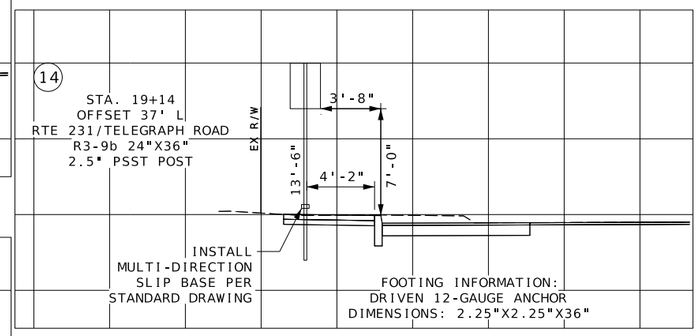


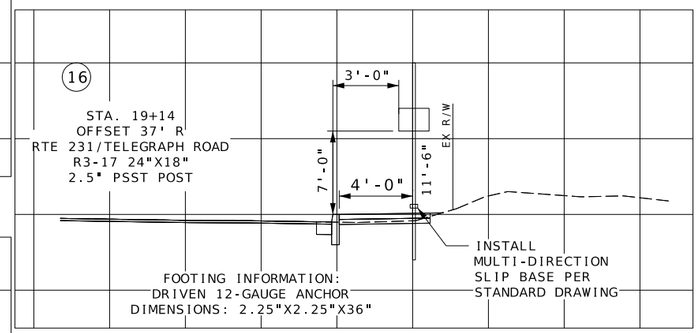












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SIGN CROSS SECTION
SHEET 1 OF 25

NOTES:
1. SIGN LOCATIONS MAY BE MODIFIED IN THE FIELD TO PROVIDE MIN. HORIZONTAL CLEARANCES, AVOID EXISTING SIGNS AND UNDERGROUND FACILITIES.
2. ALL SIGNS SHALL HAVE A MINIMUM FOOTING DEPTH OF 36" UNLESS NOTED OTHERWISE.

SIGNING SHEETS
SHEET 44 OF 68

LAYOUT	NS	01/2025
DRAWN	SMC	01/2025
REVIEWED	DJK	01/2025

STATE OF MISSOURI
DENNIS J KOSCIELSKI
NUMBER PE-2005000712
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED
7/25/2025

ROUTE	STATE
231	MO
DISTRICT	SHEET NO.
SL	393

COUNTY
ST. LOUIS

JOB NO.
J6S3631

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION	DATE

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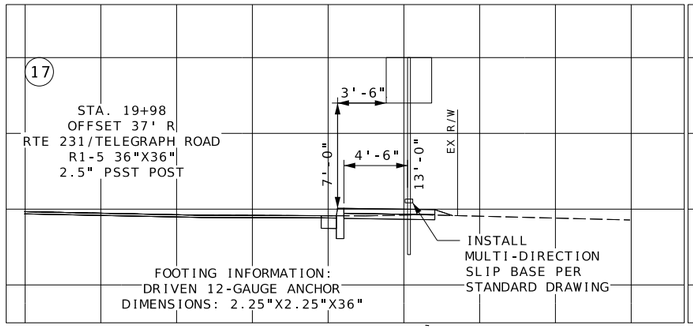
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

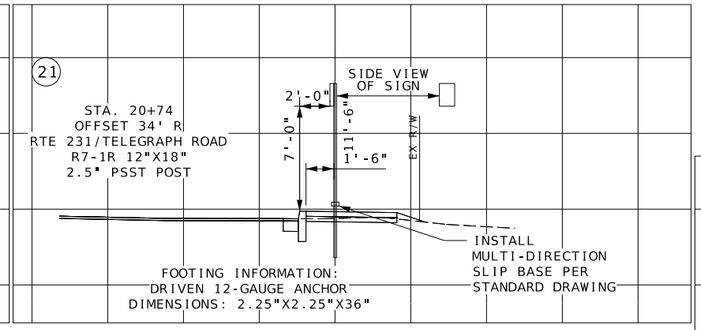
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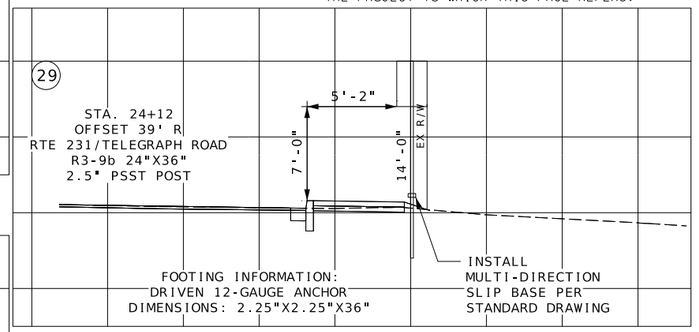
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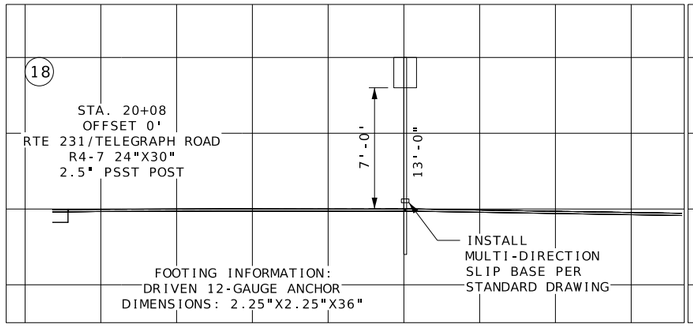
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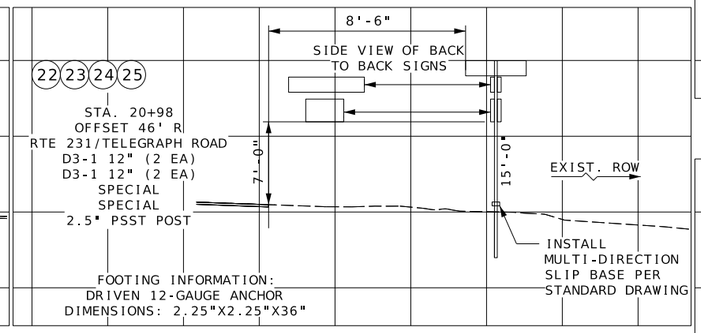
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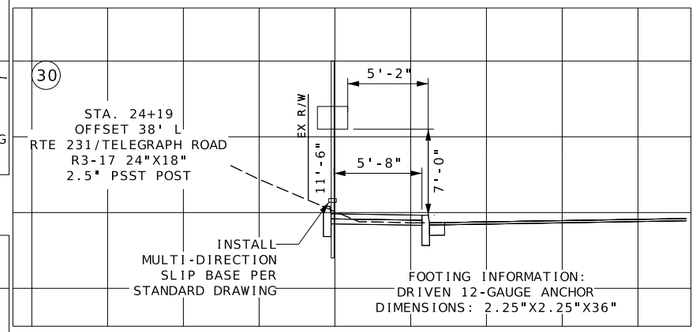


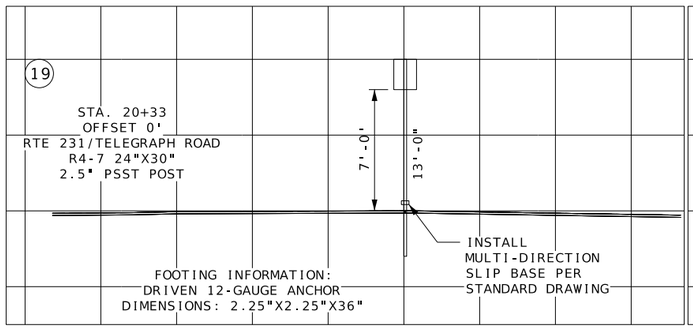


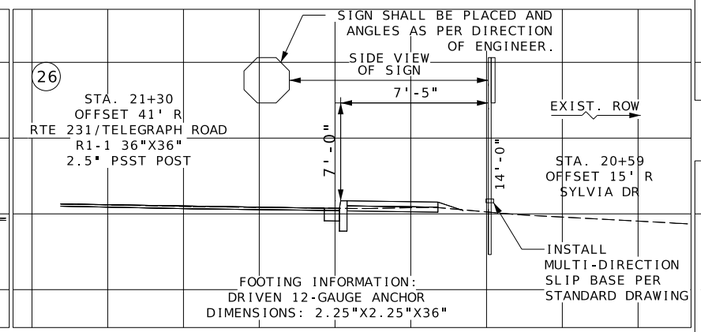


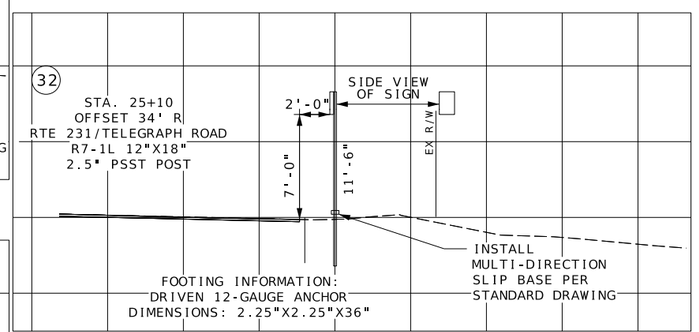


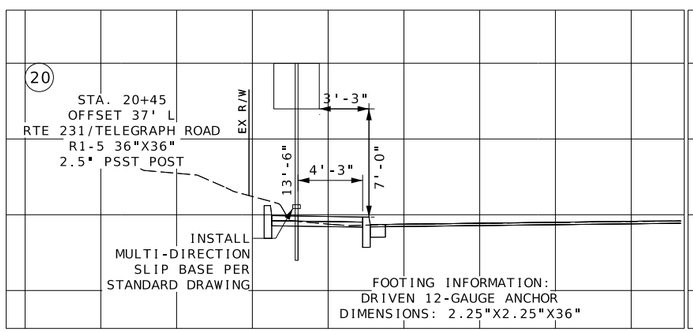


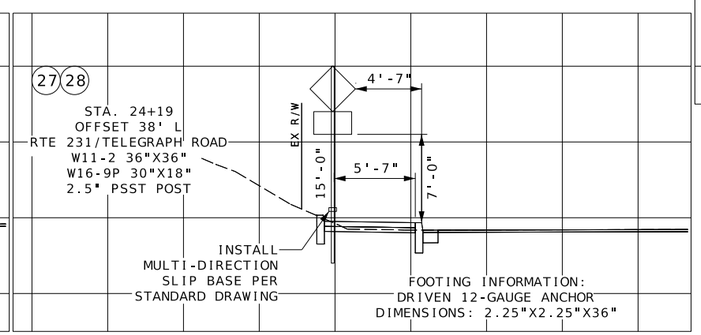












SIGN CROSS SECTION
SHEET 2 OF 25

NOTES:
1. SIGN LOCATIONS MAY BE MODIFIED IN THE FIELD TO PROVIDE MIN. HORIZONTAL CLEARANCES, AVOID EXISTING SIGNS AND UNDERGROUND FACILITIES.
2. ALL SIGNS SHALL HAVE A MINIMUM FOOTING DEPTH OF 36" UNLESS NOTED OTHERWISE.

SIGNING SHEETS
SHEET 45 OF 68

LAYOUT	NS	01/2025
DRAWN	SMC	01/2025
REVIEWED	DJK	01/2025

STATE OF MISSOURI
DENNIS J. KOSCIELSKI
NUMBER PE-2005000712
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED
7/25/2025

ROUTE	STATE
231	MO
DISTRICT	SHEET NO.
SL	394

COUNTY
ST. LOUIS

JOB NO.
J6S3631

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION	DATE

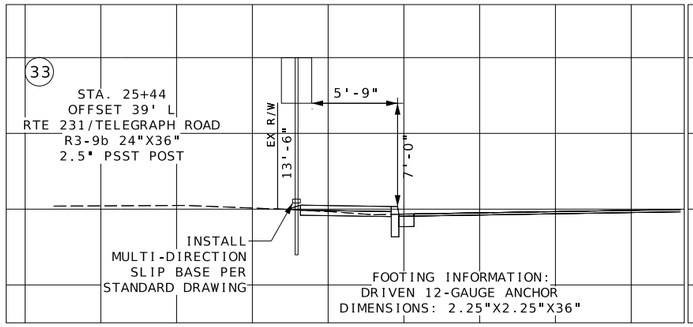
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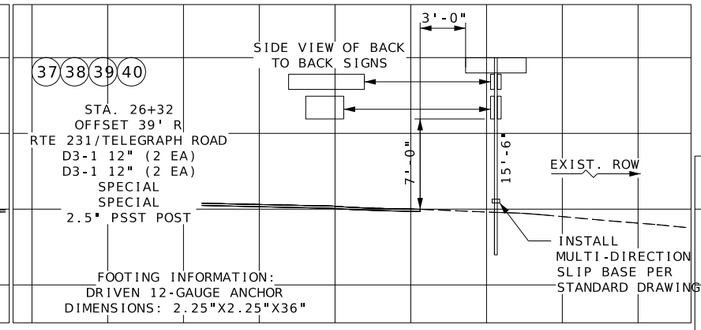
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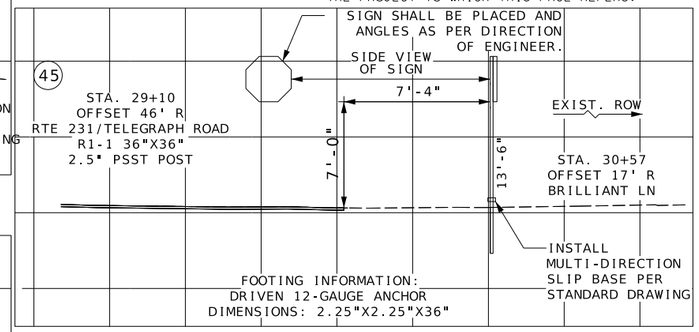
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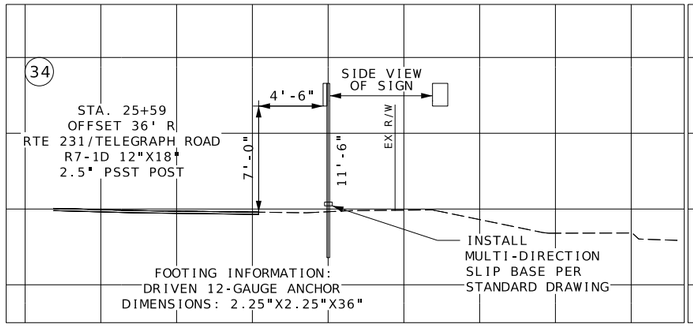


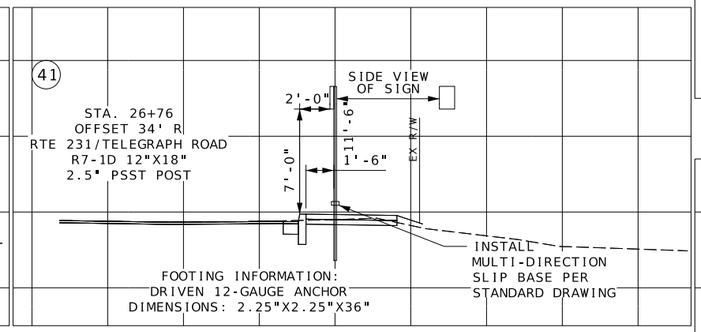


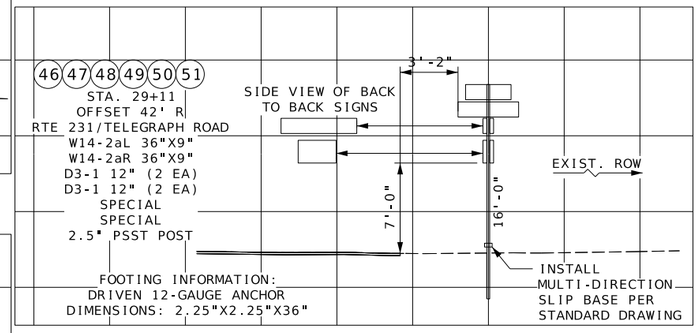
DISCLAIMER

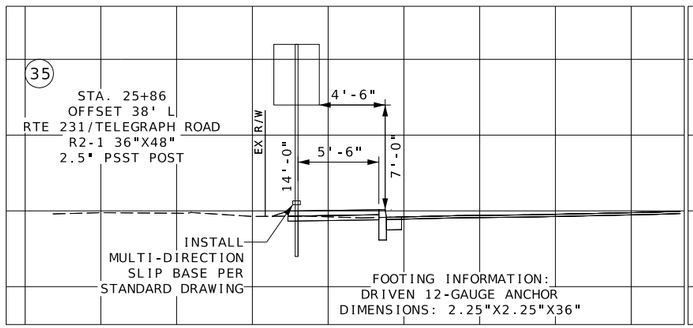
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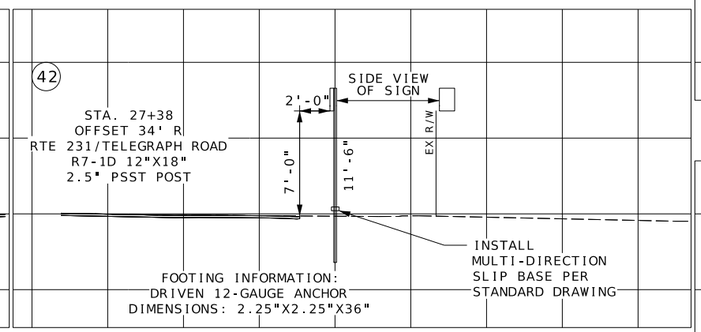


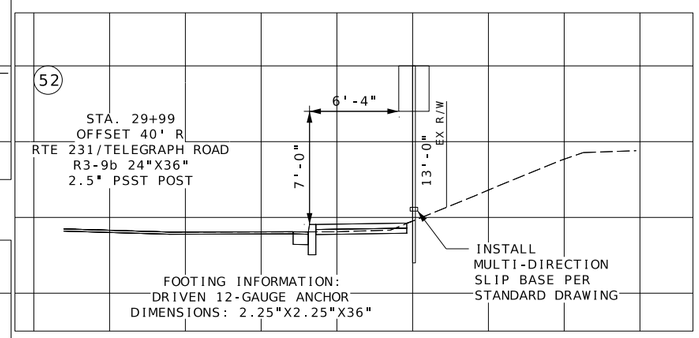


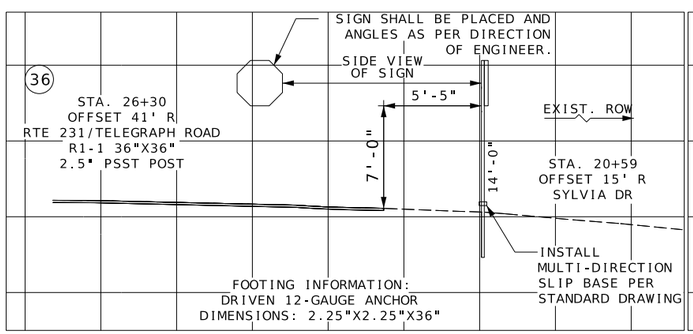


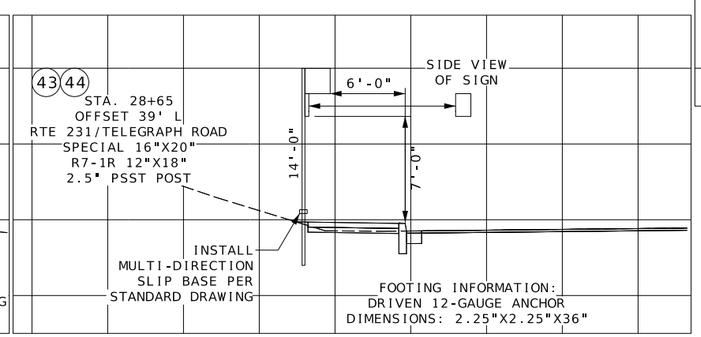












SIGN CROSS SECTION
SHEET 3 OF 25

NOTES:
1. SIGN LOCATIONS MAY BE MODIFIED IN THE FIELD TO PROVIDE MIN. HORIZONTAL CLEARANCES, AVOID EXISTING SIGNS AND UNDERGROUND FACILITIES.
2. ALL SIGNS SHALL HAVE A MINIMUM FOOTING DEPTH OF 36" UNLESS NOTED OTHERWISE.

SIGNING SHEETS
SHEET 46 OF 68

LAYOUT	NS	01/2025
DRAWN	SMC	01/2025
REVIEWED	DJK	01/2025

STATE OF MISSOURI
DENNIS J. KOSCIELSKI
NUMBER PE-2005000712
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED: 7/25/2025
ROUTE: 231 | STATE: MO
DISTRICT: SL | SHEET NO.: 395
COUNTY: ST. LOUIS
JOB NO.: J6S3631
CONTRACT ID.:
PROJECT NO.:
BRIDGE NO.:

DESCRIPTION	DATE

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

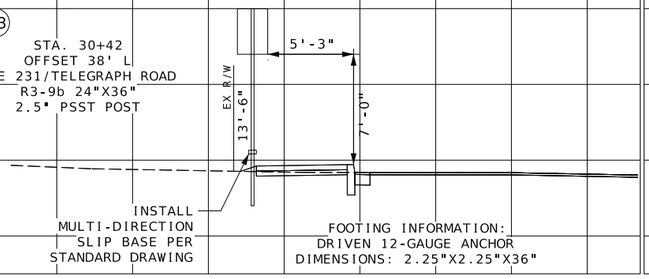
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Professional Engineer 001632
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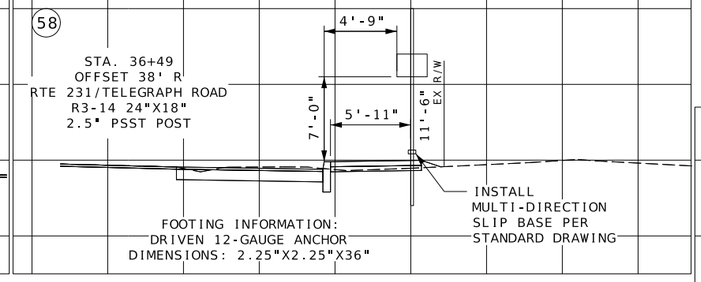
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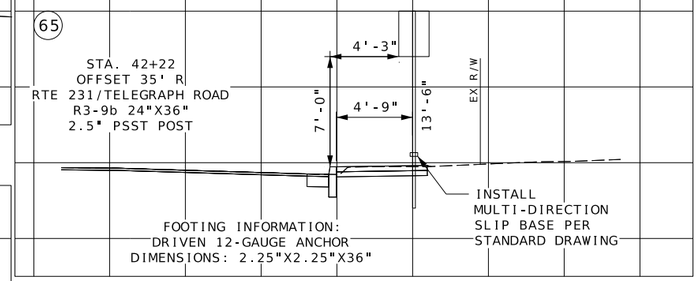
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OFFSET 38' L
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R3-9b 24"X36"
2.5" PSST POST



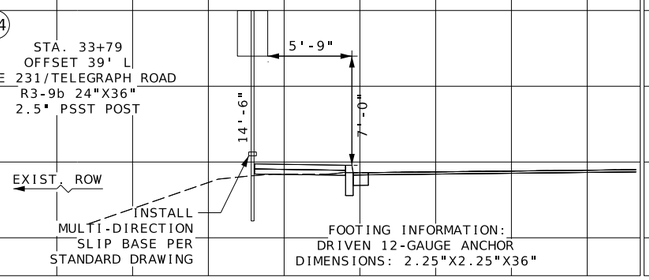
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R3-14 24"X18"
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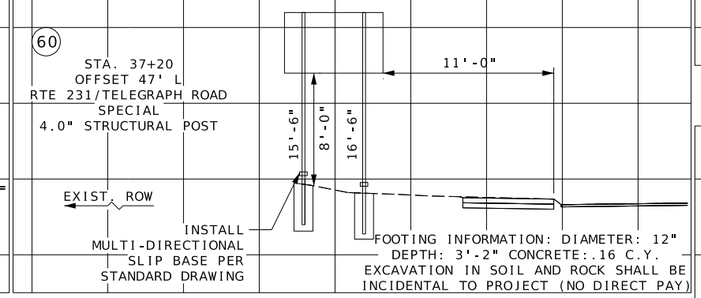
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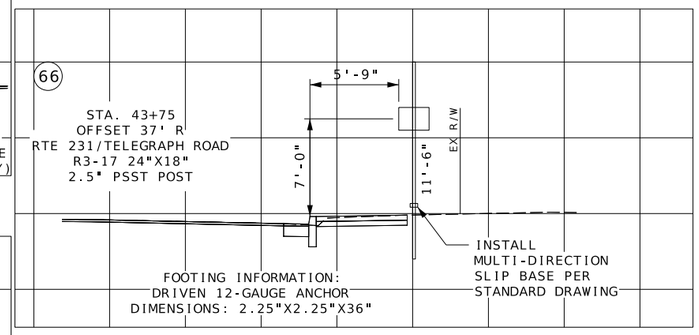
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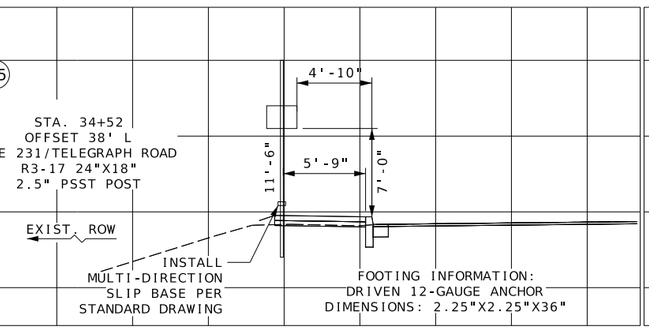
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SPECIAL
4.0" STRUCTURAL POST



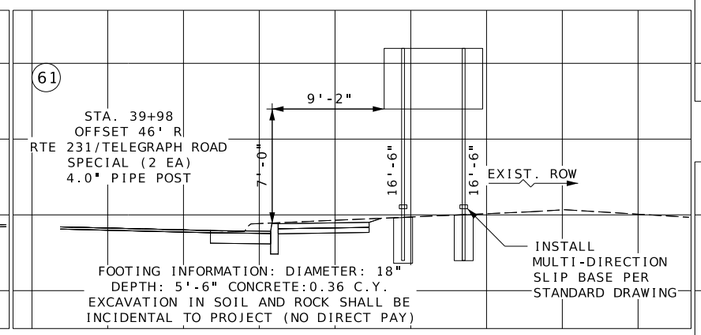
(66)
STA. 43+75
OFFSET 37' R
RTE 231/TELEGRAPH ROAD
R3-17 24"X18"
2.5" PSST POST



(55)
STA. 34+52
OFFSET 38' L
RTE 231/TELEGRAPH ROAD
R3-17 24"X18"
2.5" PSST POST

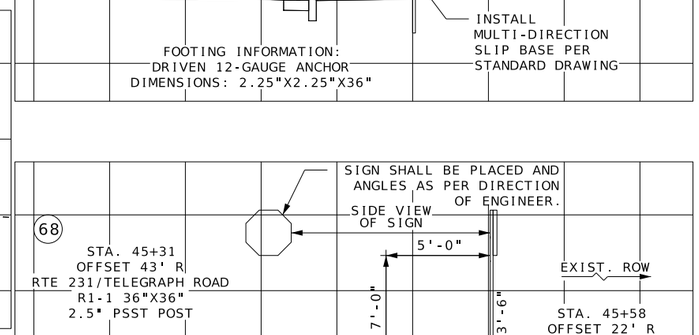


(61)
STA. 39+98
OFFSET 46' R
RTE 231/TELEGRAPH ROAD
SPECIAL (2 EA)
4.0" PIPE POST

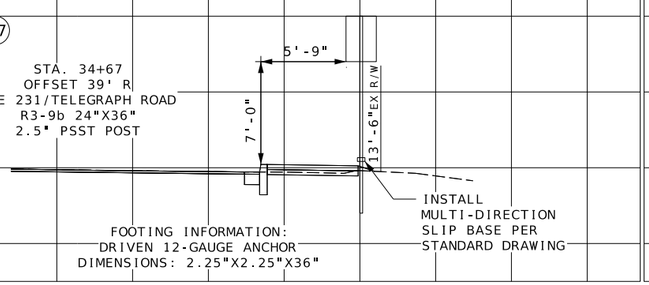


SIGN SHALL BE PLACED AND ANGLES AS PER DIRECTION OF ENGINEER.

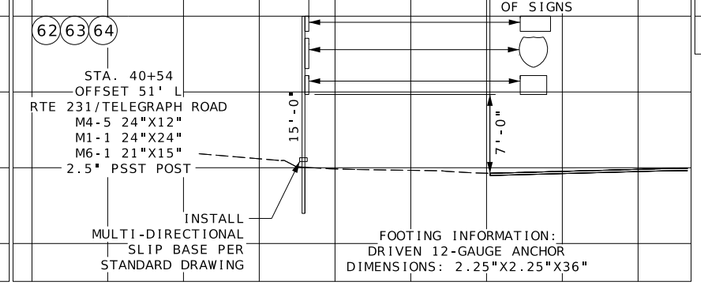
(68)
STA. 45+31
OFFSET 43' R
RTE 231/TELEGRAPH ROAD
R1-1 36"X36"
2.5" PSST POST



(57)
STA. 34+67
OFFSET 39' R
RTE 231/TELEGRAPH ROAD
R3-9b 24"X36"
2.5" PSST POST



(62)(63)(64)
STA. 40+54
OFFSET 51' L
RTE 231/TELEGRAPH ROAD
M4-5 24"X12"
M1-1 24"X24"
M6-1 21"X15"
2.5" PSST POST



SIGN CROSS SECTION
SHEET 4 OF 25

NOTES:
1. SIGN LOCATIONS MAY BE MODIFIED IN THE FIELD TO PROVIDE MIN. HORIZONTAL CLEARANCES, AVOID EXISTING SIGNS AND UNDERGROUND FACILITIES.
2. ALL SIGNS SHALL HAVE A MINIMUM FOOTING DEPTH OF 36" UNLESS NOTED OTHERWISE.

SIGNING SHEETS
SHEET 47 OF 68

LAYOUT	NS	01/2025
DRAWN	SMC	01/2025
REVIEWED	DJK	01/2025

STATE OF MISSOURI
DENNIS J. KOSCIELSKI
NUMBER PE-2005000712
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED
7/25/2025

ROUTE	STATE
231	MO
DISTRICT	SHEET NO.
SL	396

COUNTY
ST. LOUIS

JOB NO.
J6S3631

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION	DATE

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

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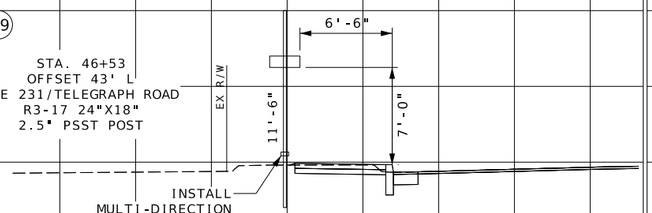
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St. Louis, Missouri 63101
Professional Engineer 001632
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314.770.0467

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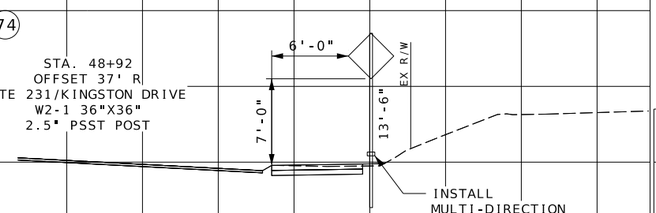
69

STA. 46+53
OFFSET 43' L
RTE 231/TELEGRAPH ROAD
R3-17 24"X18"
2.5" PSST POST



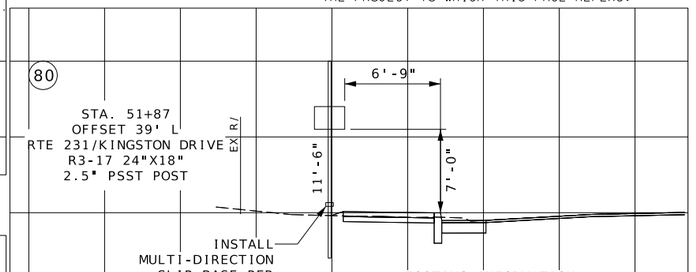
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STA. 48+92
OFFSET 37' R
RTE 231/KINGSTON DRIVE
W2-1 36"X36"
2.5" PSST POST



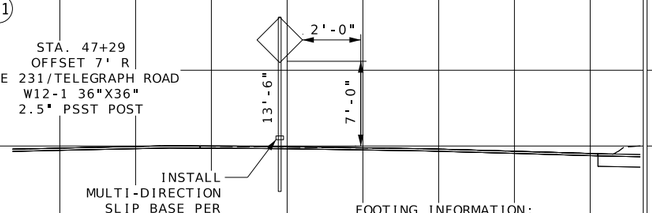
80

STA. 51+87
OFFSET 39' L
RTE 231/KINGSTON DRIVE
R3-17 24"X18"
2.5" PSST POST



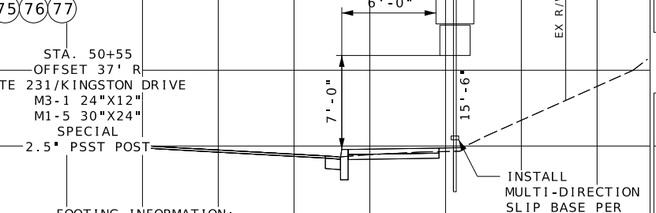
71

STA. 47+29
OFFSET 7' R
RTE 231/TELEGRAPH ROAD
W12-1 36"X36"
2.5" PSST POST



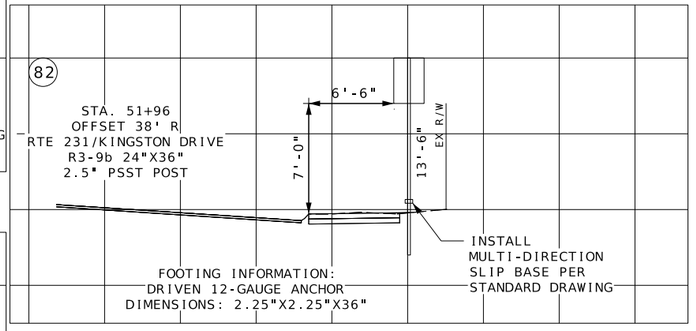
75 76 77

STA. 50+55
OFFSET 37' R
RTE 231/KINGSTON DRIVE
M3-1 24"X12"
M1-5 30"X24"
SPECIAL
2.5" PSST POST



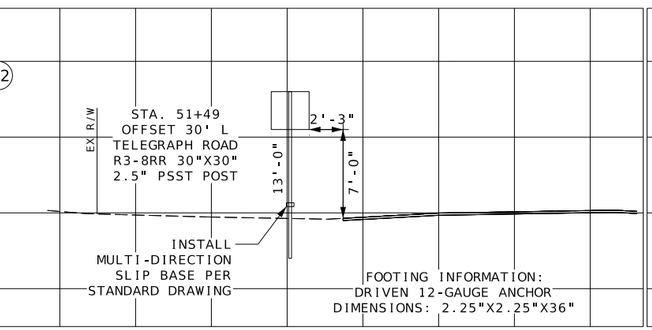
82

STA. 51+96
OFFSET 38' R
RTE 231/KINGSTON DRIVE
R3-9b 24"X36"
2.5" PSST POST



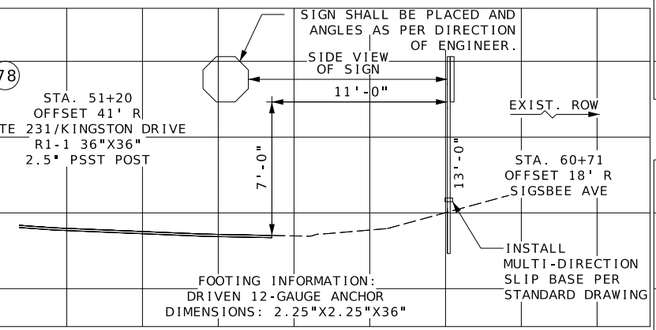
72

STA. 51+49
OFFSET 30' L
TELEGRAPH ROAD
R3-8RR 30"X30"
2.5" PSST POST



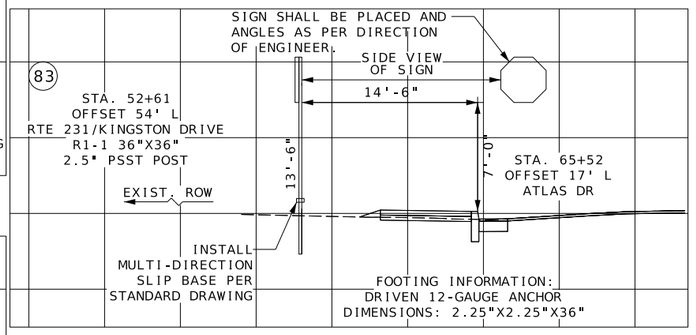
78

STA. 51+20
OFFSET 41' R
RTE 231/KINGSTON DRIVE
R1-1 36"X36"
2.5" PSST POST



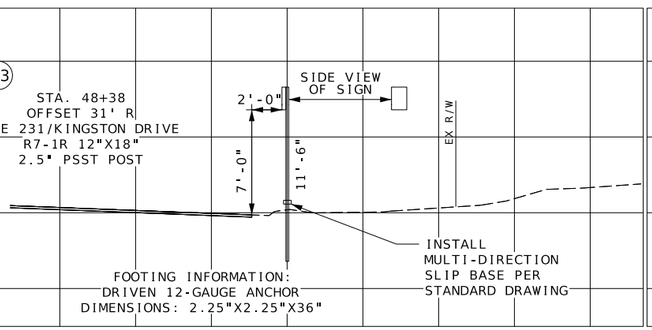
83

STA. 52+61
OFFSET 54' L
RTE 231/KINGSTON DRIVE
R1-1 36"X36"
2.5" PSST POST



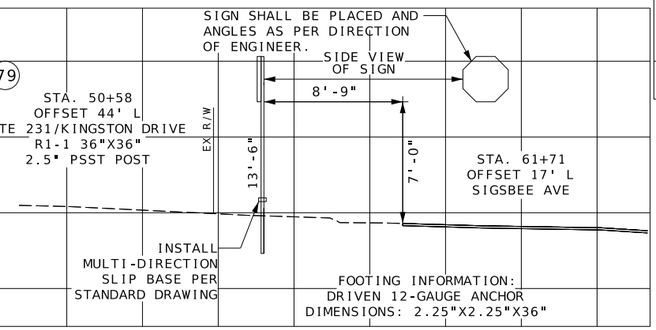
73

STA. 48+38
OFFSET 31' R
RTE 231/KINGSTON DRIVE
R7-1R 12"X18"
2.5" PSST POST



79

STA. 50+58
OFFSET 44' L
RTE 231/KINGSTON DRIVE
R1-1 36"X36"
2.5" PSST POST



SIGN CROSS SECTION
SHEET 5 OF 25

NOTES:
1. SIGN LOCATIONS MAY BE MODIFIED IN THE FIELD TO PROVIDE MIN. HORIZONTAL CLEARANCES, AVOID EXISTING SIGNS AND UNDERGROUND FACILITIES.
2. ALL SIGNS SHALL HAVE A MINIMUM FOOTING DEPTH OF 36" UNLESS NOTED OTHERWISE.

SIGNING SHEETS
SHEET 48 OF 68

LAYOUT	NS	01/2025
DRAWN	SMC	01/2025
REVIEWED	DJK	01/2025

STATE OF MISSOURI
DENNIS J. KOSCIELSKI
NUMBER PE-2005000712
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED
7/25/2025

ROUTE	STATE
231	MO
DISTRICT	SHEET NO.
SL	397

COUNTY
ST. LOUIS

JOB NO.
J6S3631

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION	DATE

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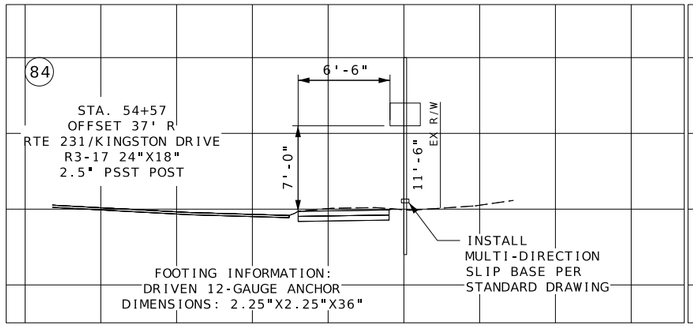
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JEFFERSON CITY, MO 65102
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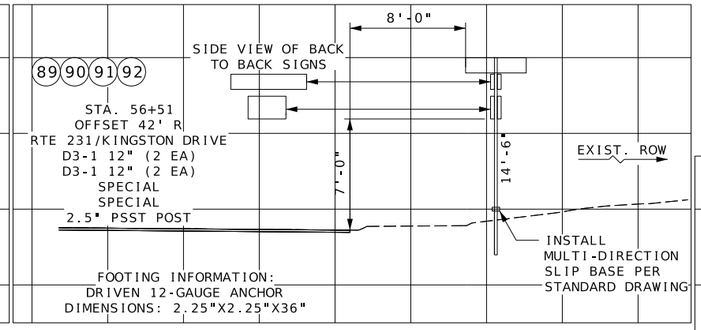
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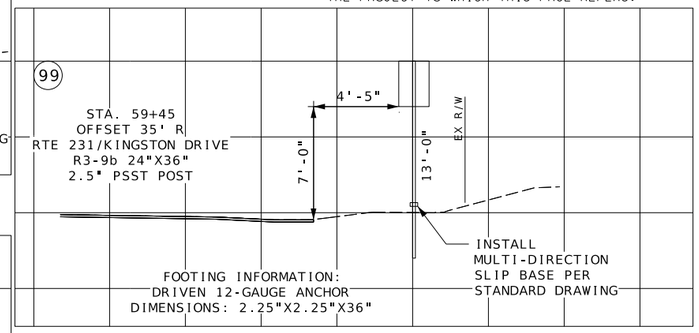
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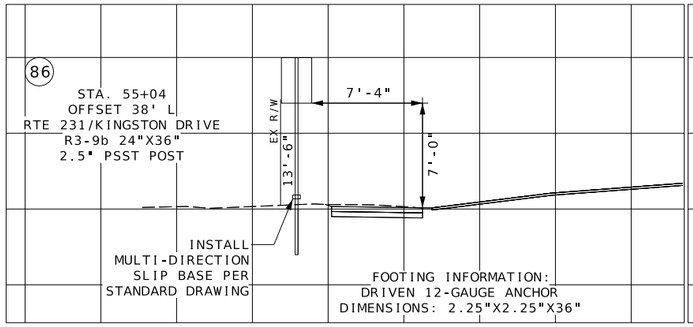
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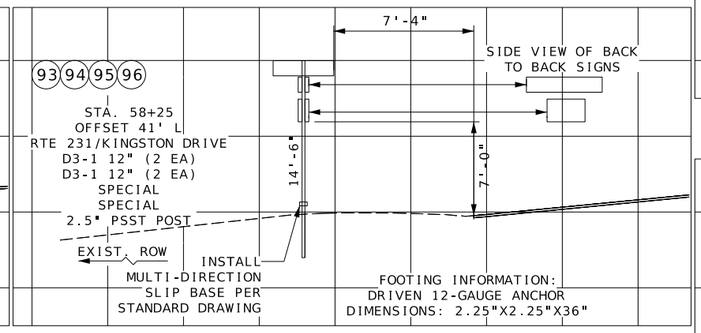
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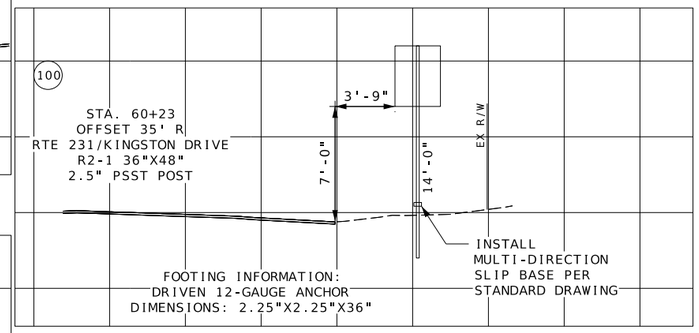


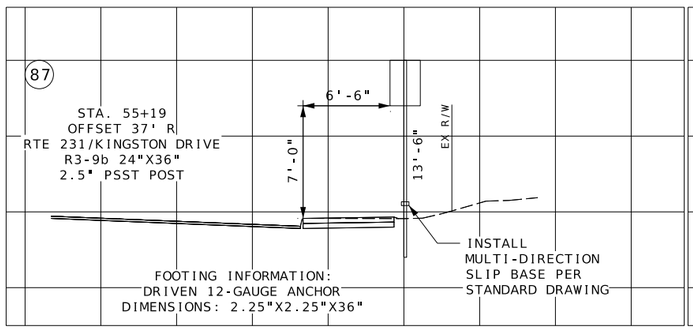


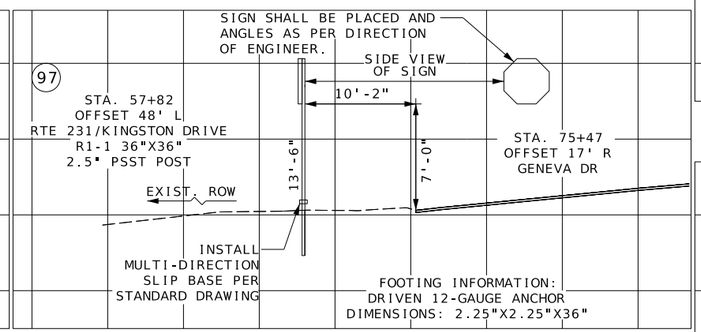


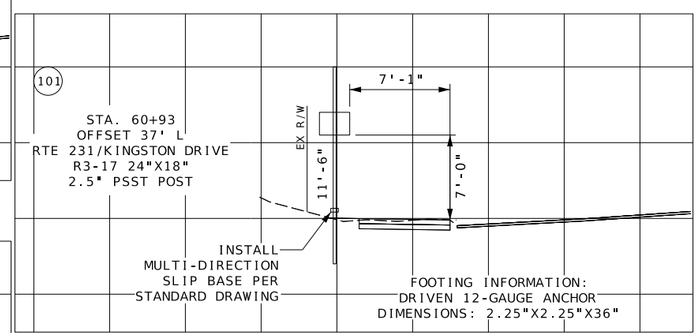


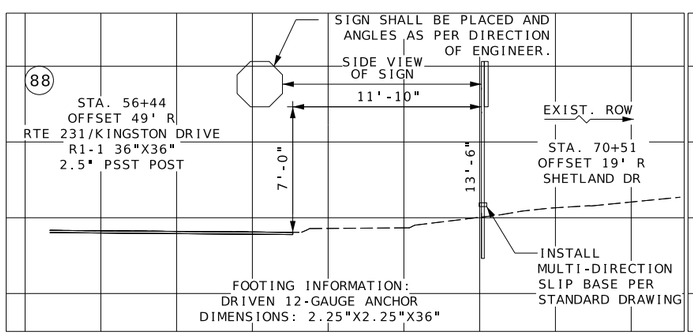


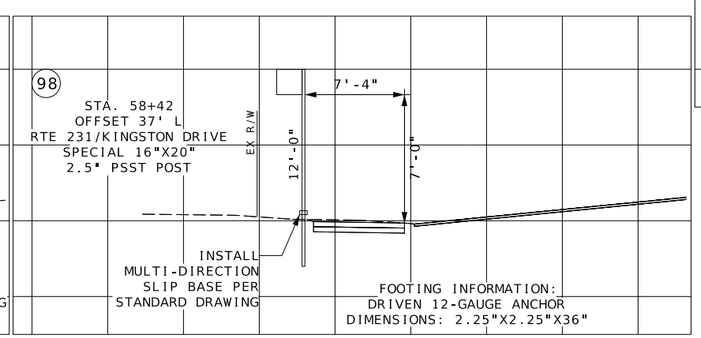












SIGN CROSS SECTION
SHEET 6 OF 25

NOTES:
1. SIGN LOCATIONS MAY BE MODIFIED IN THE FIELD TO PROVIDE MIN. HORIZONTAL CLEARANCES, AVOID EXISTING SIGNS AND UNDERGROUND FACILITIES.
2. ALL SIGNS SHALL HAVE A MINIMUM FOOTING DEPTH OF 36" UNLESS NOTED OTHERWISE.

SIGNING SHEETS
SHEET 49 OF 68

LAYOUT	NS	01/2025
DRAWN	SMC	01/2025
REVIEWED	DJK	01/2025

STATE OF MISSOURI
DENNIS J. KOSCIELSKI
NUMBER PE-2005000712
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED
7/25/2025

ROUTE	STATE
231	MO
DISTRICT	SHEET NO.
SL	398

COUNTY
ST. LOUIS

JOB NO.
J6S3631

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION	DATE

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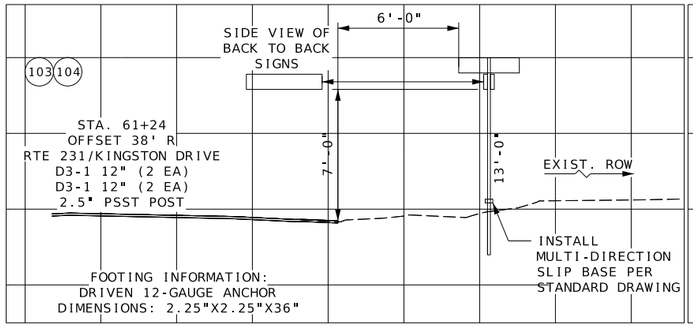
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JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

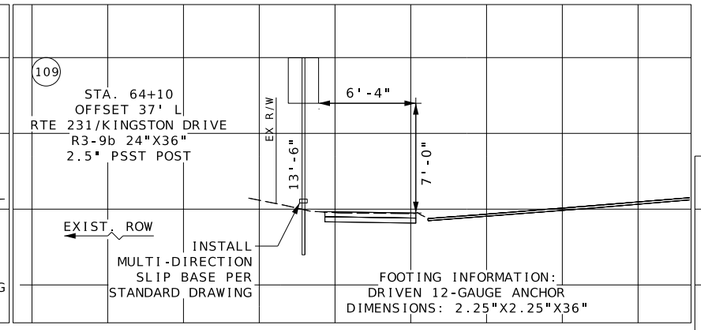
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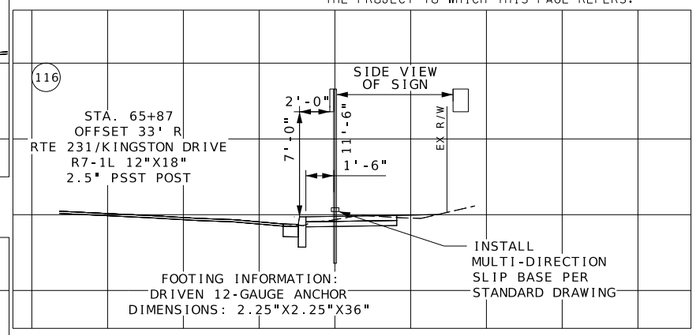
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Professional Engineer 001632
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314.770.0467

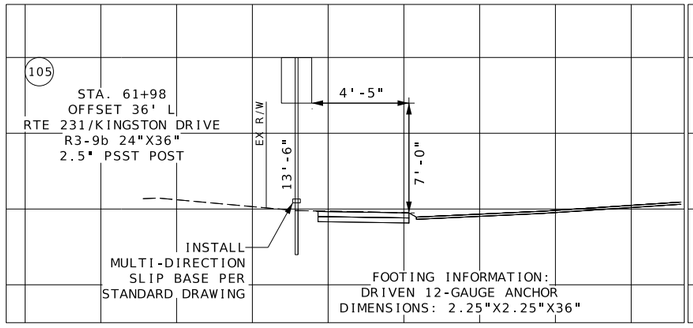
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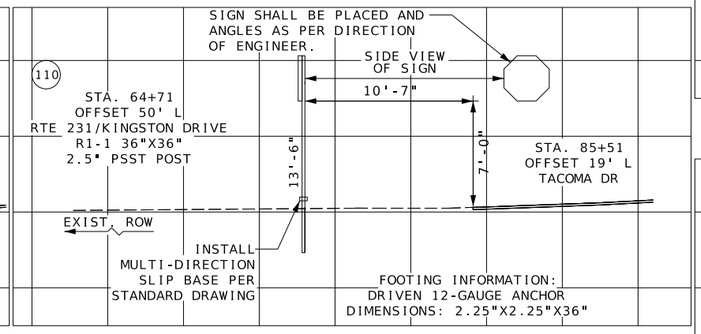
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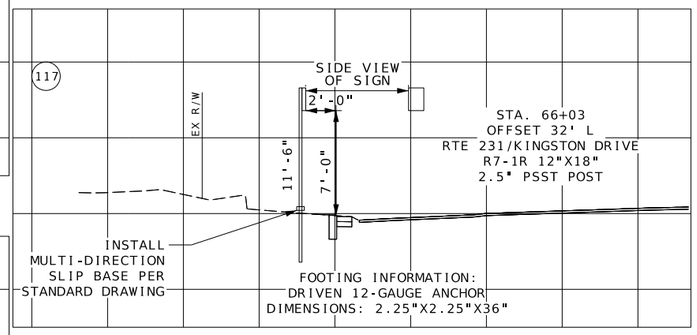


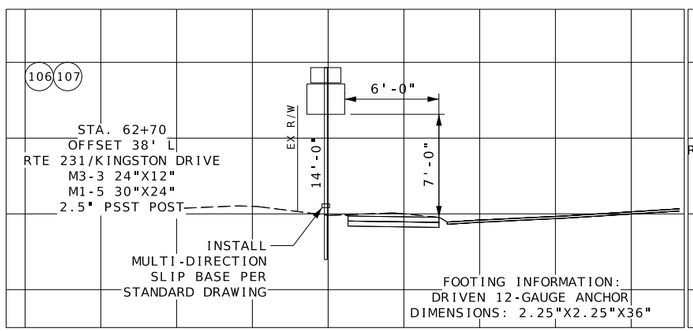


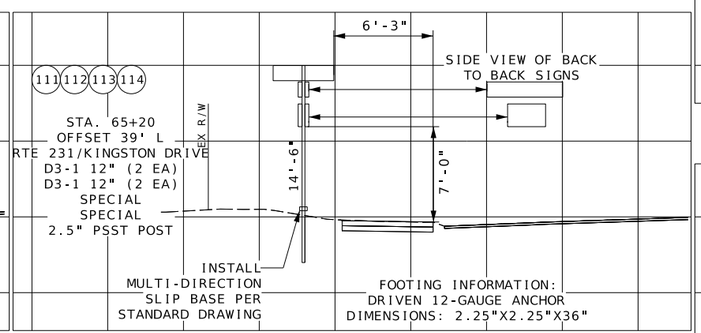


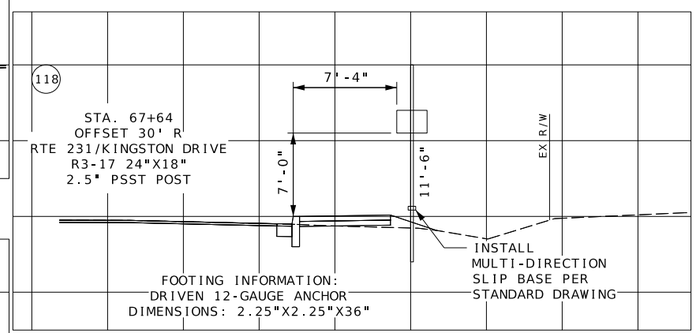


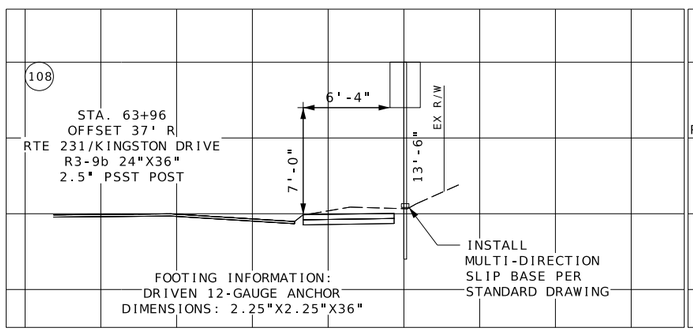


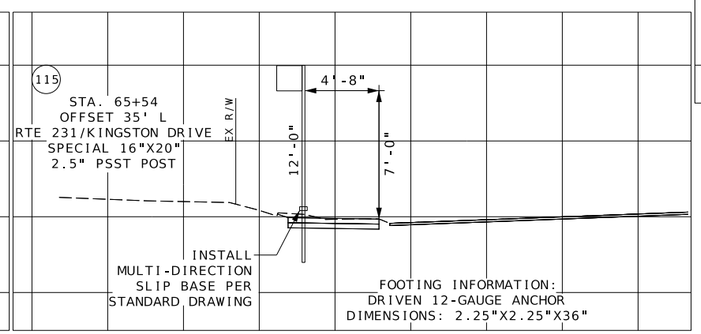












SIGN CROSS SECTION
SHEET 7 OF 25

NOTES:
1. SIGN LOCATIONS MAY BE MODIFIED IN THE FIELD TO PROVIDE MIN. HORIZONTAL CLEARANCES, AVOID EXISTING SIGNS AND UNDERGROUND FACILITIES.
2. ALL SIGNS SHALL HAVE A MINIMUM FOOTING DEPTH OF 36" UNLESS NOTED OTHERWISE.

SIGNING SHEETS
SHEET 50 OF 68

LAYOUT	NS	01/2025
DRAWN	SMC	01/2025
REVIEWED	DJK	01/2025

STATE OF MISSOURI
DENNIS J KOSCIELSKI
NUMBER PE-2005000712
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED
7/25/2025

ROUTE	STATE
231	MO
DISTRICT	SHEET NO.
SL	399

COUNTY
ST. LOUIS

JOB NO.
J6S3631

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION	DATE

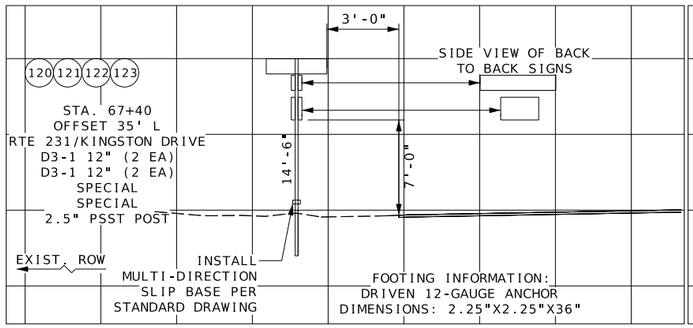
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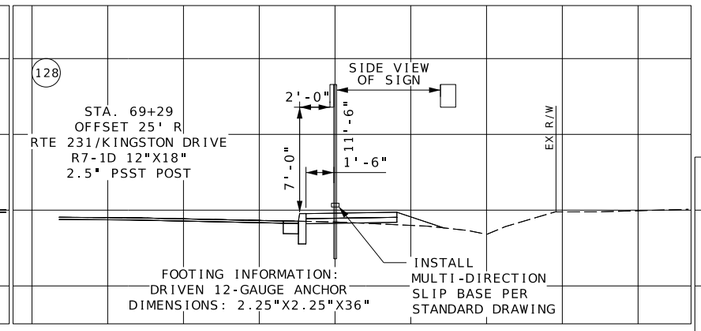
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

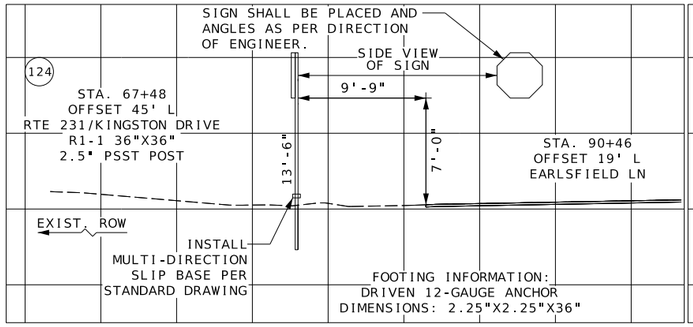
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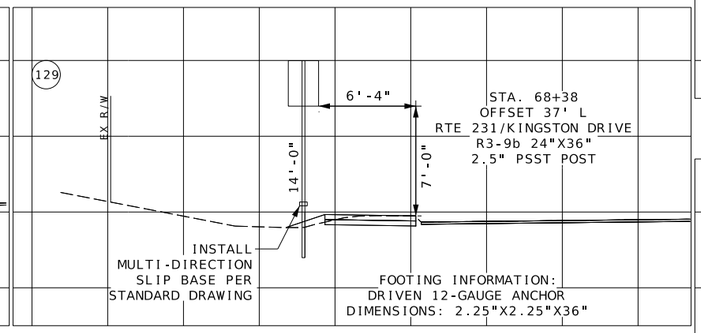
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Hanson Professional Services Inc.
600 Washington Ave., Suite 950
St. Louis, Missouri 63101
Professional Engineer 001632
www.hanson-inc.com
314.770.0467

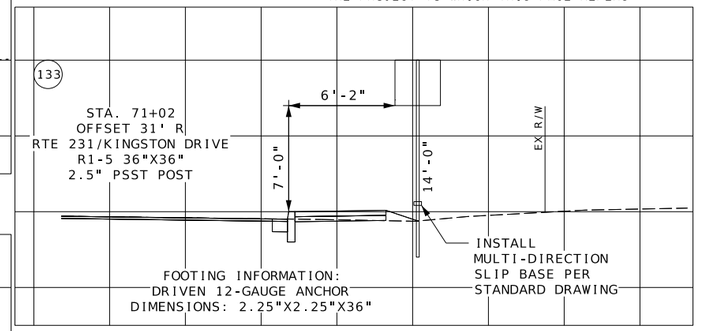
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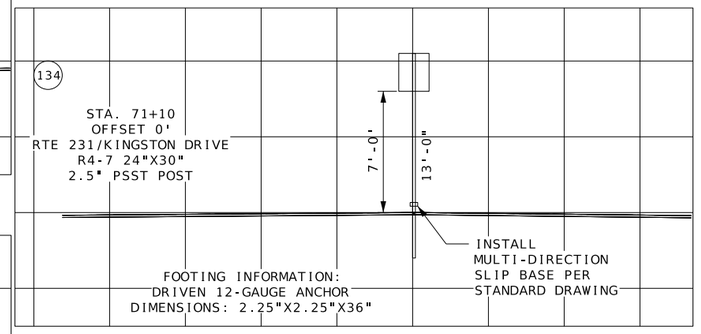


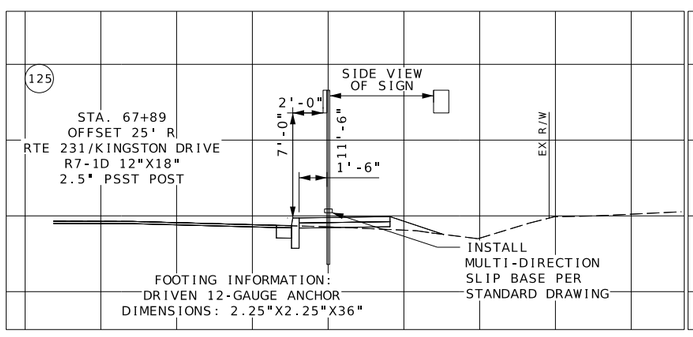


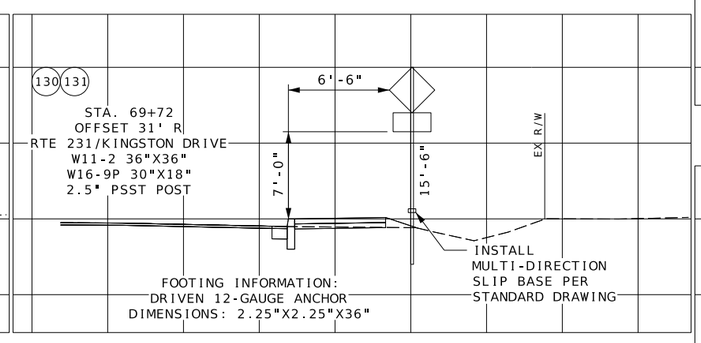


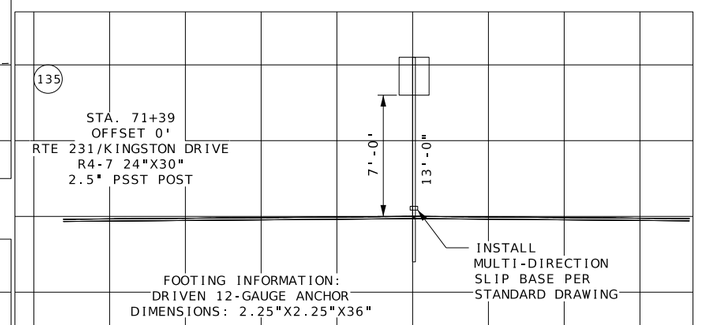


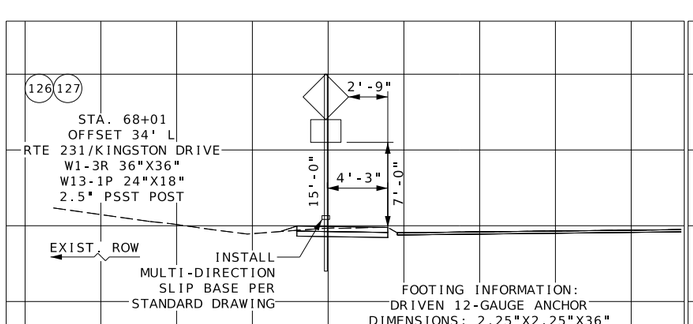


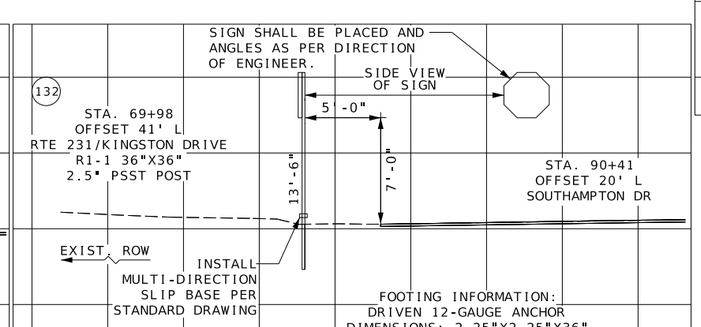












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SIGN CROSS SECTION
SHEET 8 OF 25

NOTES:
1. SIGN LOCATIONS MAY BE MODIFIED IN THE FIELD TO PROVIDE MIN. HORIZONTAL CLEARANCES, AVOID EXISTING SIGNS AND UNDERGROUND FACILITIES.
2. ALL SIGNS SHALL HAVE A MINIMUM FOOTING DEPTH OF 36" UNLESS NOTED OTHERWISE.

SIGNING SHEETS
SHEET 51 OF 68

LAYOUT	NS	01/2025
DRAWN	SMC	01/2025
REVIEWED	DJK	01/2025

STATE OF MISSOURI
DENNIS J. KOSCIELSKI
NUMBER PE-2005000712
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED: 7/25/2025

ROUTE	STATE
231	MO
DISTRICT	SHEET NO.
SL	400

COUNTY: ST. LOUIS
JOB NO.: J6S3631
CONTRACT ID.:
PROJECT NO.:
BRIDGE NO.:

DESCRIPTION	DATE

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

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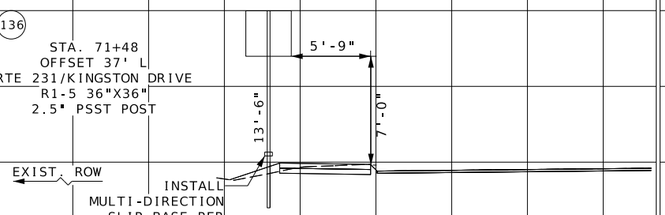
HANSON
Hanson Professional Services Inc.
600 Washington Ave., Suite 950
St. Louis, Missouri 63101
Professional Engineer 001632
www.hanson-inc.com
314.770.0467

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136

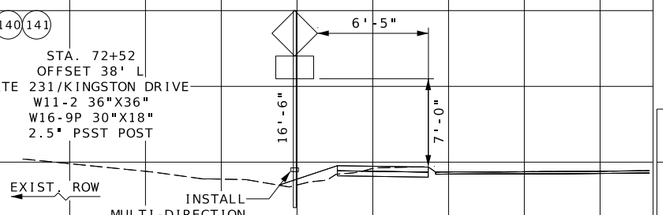
STA. 71+48
OFFSET 37' L
RTE 231/KINGSTON DRIVE
R1-5 36"X36"
2.5" PSST POST



FOOTING INFORMATION:
DRIVEN 12-GAUGE ANCHOR
DIMENSIONS: 2.25"X2.25"X36"

140 141

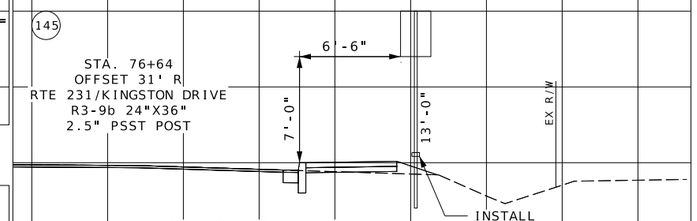
STA. 72+52
OFFSET 38' L
RTE 231/KINGSTON DRIVE
W11-2 36"X36"
W16-9P 30"X18"
2.5" PSST POST



FOOTING INFORMATION:
DRIVEN 12-GAUGE ANCHOR
DIMENSIONS: 2.25"X2.25"X36"

145

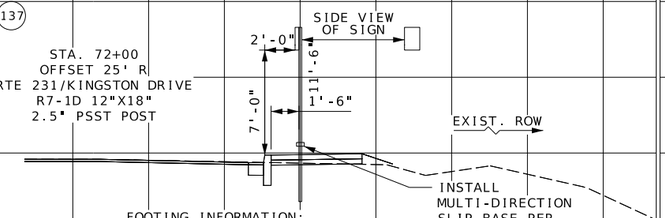
STA. 76+64
OFFSET 31' R
RTE 231/KINGSTON DRIVE
R3-9b 24"X36"
2.5" PSST POST



FOOTING INFORMATION:
DRIVEN 12-GAUGE ANCHOR
DIMENSIONS: 2.25"X2.25"X36"

137

STA. 72+00
OFFSET 25' R
RTE 231/KINGSTON DRIVE
R7-1D 12"X18"
2.5" PSST POST

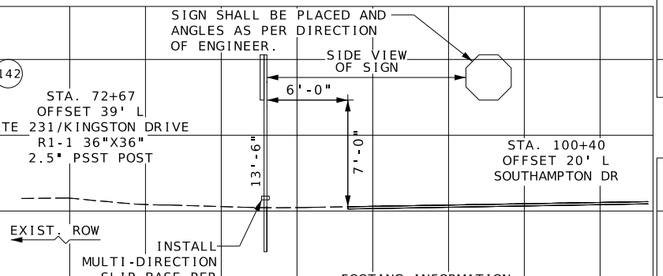


FOOTING INFORMATION:
DRIVEN 12-GAUGE ANCHOR
DIMENSIONS: 2.25"X2.25"X36"

142

SIGN SHALL BE PLACED AND ANGLES AS PER DIRECTION OF ENGINEER.

STA. 72+67
OFFSET 39' L
RTE 231/KINGSTON DRIVE
R1-1 36"X36"
2.5" PSST POST

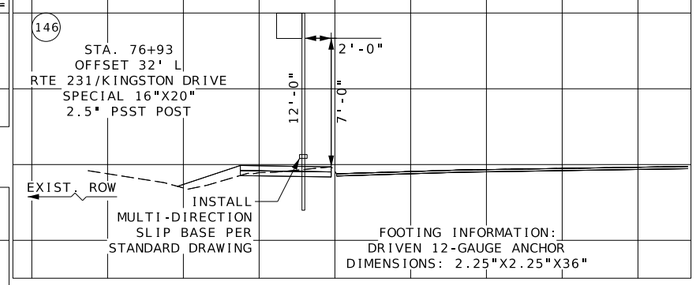


STA. 100+40
OFFSET 20' L
SOUTHAMPTON DR

FOOTING INFORMATION:
DRIVEN 12-GAUGE ANCHOR
DIMENSIONS: 2.25"X2.25"X36"

146

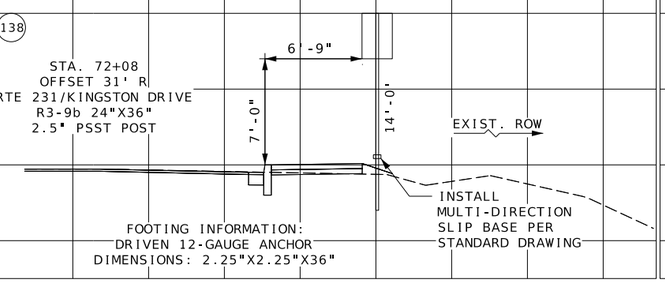
STA. 76+93
OFFSET 32' L
RTE 231/KINGSTON DRIVE
SPECIAL 16"X20"
2.5" PSST POST



FOOTING INFORMATION:
DRIVEN 12-GAUGE ANCHOR
DIMENSIONS: 2.25"X2.25"X36"

138

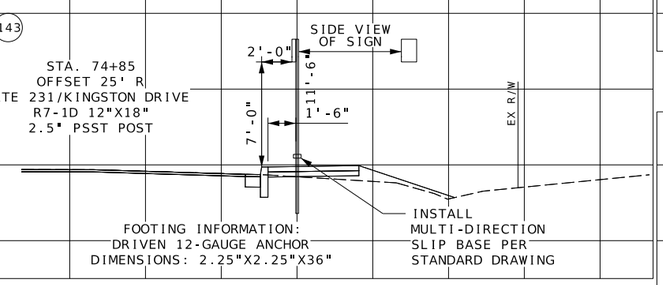
STA. 72+08
OFFSET 31' R
RTE 231/KINGSTON DRIVE
R3-9b 24"X36"
2.5" PSST POST



FOOTING INFORMATION:
DRIVEN 12-GAUGE ANCHOR
DIMENSIONS: 2.25"X2.25"X36"

143

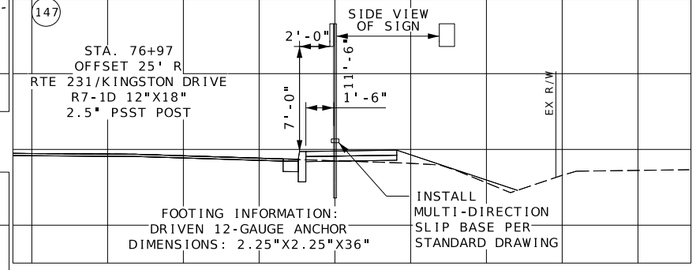
STA. 74+85
OFFSET 25' R
RTE 231/KINGSTON DRIVE
R7-1D 12"X18"
2.5" PSST POST



FOOTING INFORMATION:
DRIVEN 12-GAUGE ANCHOR
DIMENSIONS: 2.25"X2.25"X36"

147

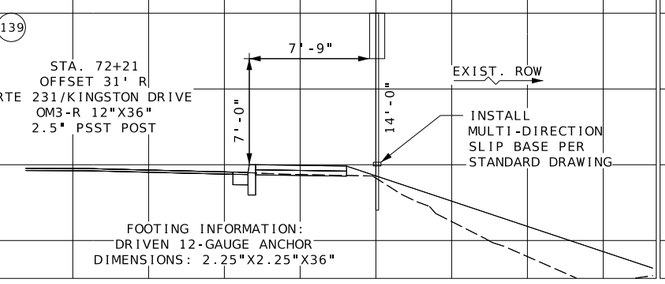
STA. 76+97
OFFSET 25' R
RTE 231/KINGSTON DRIVE
R7-1D 12"X18"
2.5" PSST POST



FOOTING INFORMATION:
DRIVEN 12-GAUGE ANCHOR
DIMENSIONS: 2.25"X2.25"X36"

139

STA. 72+21
OFFSET 31' R
RTE 231/KINGSTON DRIVE
OM3-R 12"X36"
2.5" PSST POST

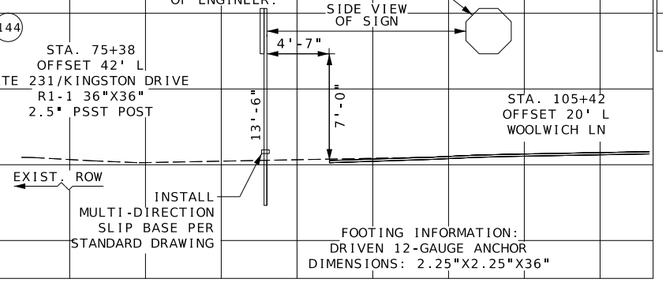


FOOTING INFORMATION:
DRIVEN 12-GAUGE ANCHOR
DIMENSIONS: 2.25"X2.25"X36"

144

SIGN SHALL BE PLACED AND ANGLES AS PER DIRECTION OF ENGINEER.

STA. 75+38
OFFSET 42' L
RTE 231/KINGSTON DRIVE
R1-1 36"X36"
2.5" PSST POST



STA. 105+42
OFFSET 20' L
WOOLWICH LN

FOOTING INFORMATION:
DRIVEN 12-GAUGE ANCHOR
DIMENSIONS: 2.25"X2.25"X36"

SIGN CROSS SECTION
SHEET 9 OF 25

NOTES:
1. SIGN LOCATIONS MAY BE MODIFIED IN THE FIELD TO PROVIDE MIN. HORIZONTAL CLEARANCES, AVOID EXISTING SIGNS AND UNDERGROUND FACILITIES.
2. ALL SIGNS SHALL HAVE A MINIMUM FOOTING DEPTH OF 36" UNLESS NOTED OTHERWISE.

SIGNING SHEETS
SHEET 52 OF 68

LAYOUT	NS	01/2025
DRAWN	SMC	01/2025
REVIEWED	DJK	01/2025

STATE OF MISSOURI
DENNIS J. KOSCIELSKI
NUMBER PE-2005000712
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED
7/25/2025

ROUTE	STATE
231	MO
DISTRICT	SHEET NO.
SL	401

COUNTY
ST. LOUIS

JOB NO.
J6S3631

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION	DATE

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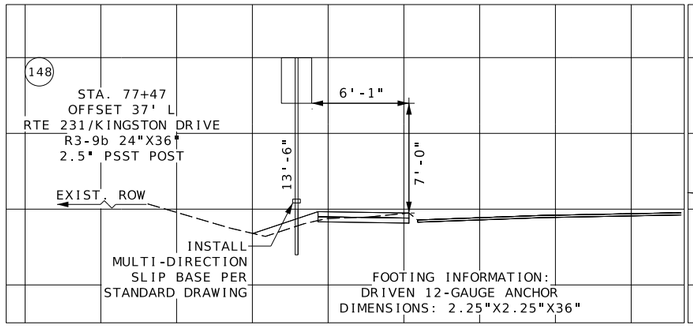
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

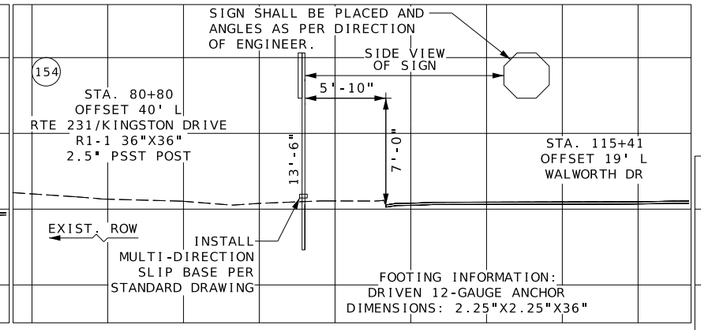
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

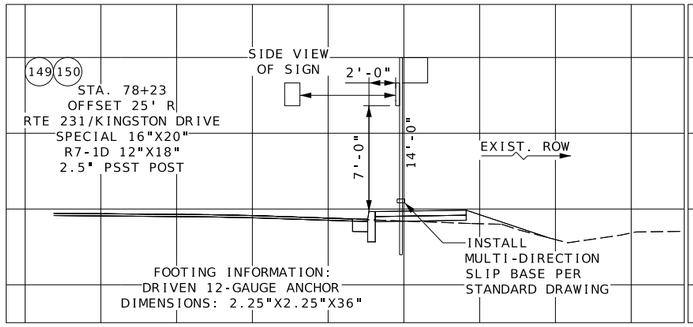
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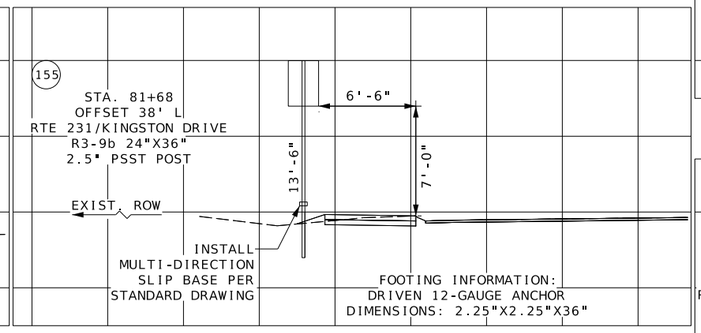
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Professional Engineer 010632
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314.770.0467

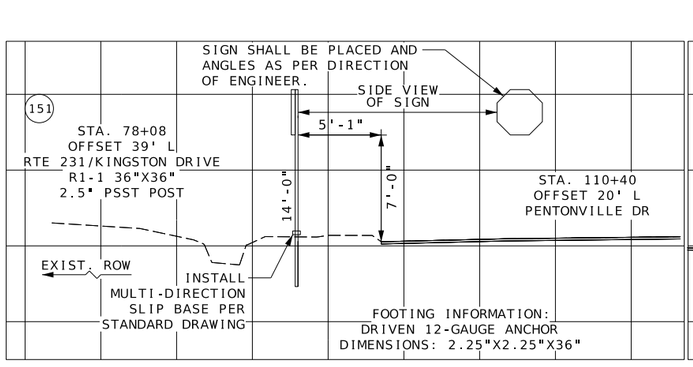
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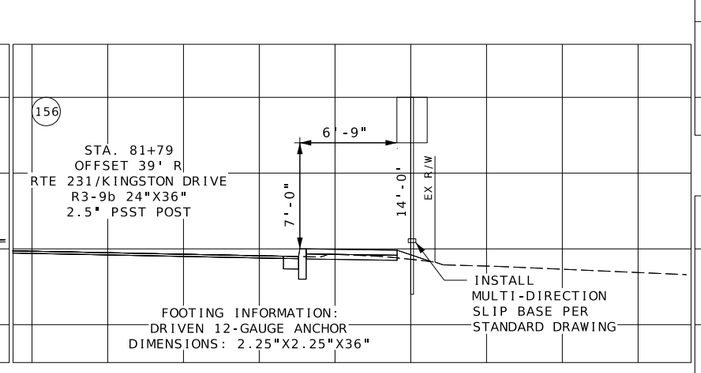


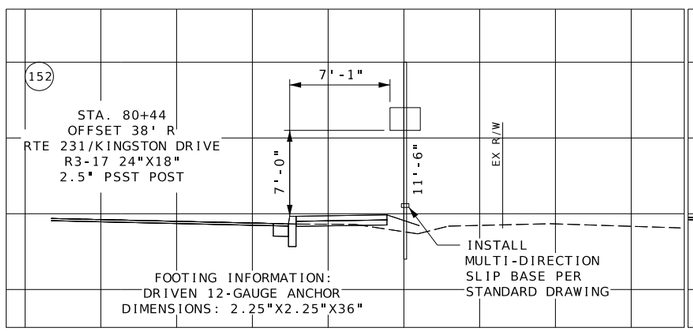


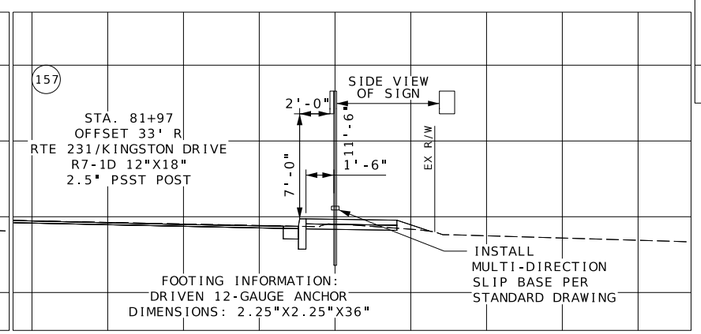


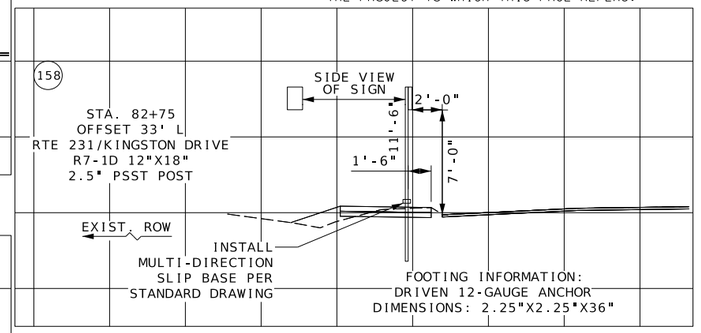


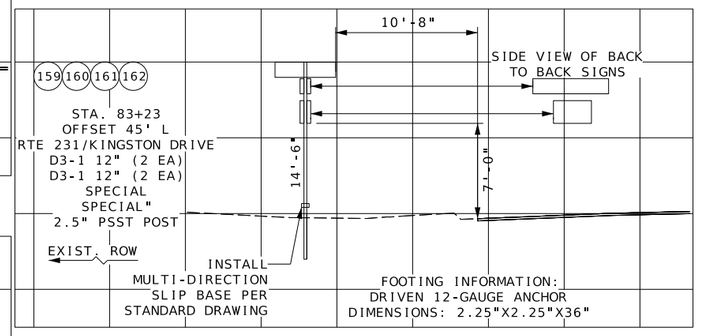


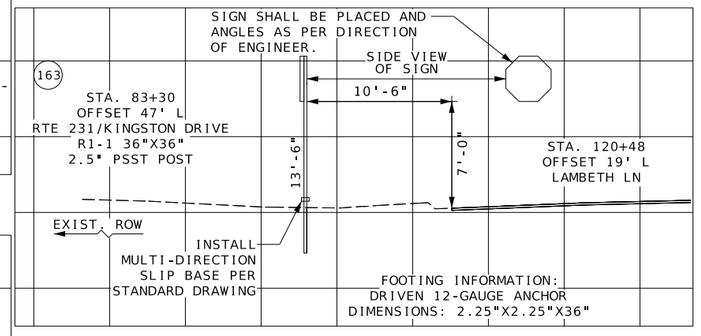












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SIGN CROSS SECTION
SHEET 10 OF 25

NOTES:
1. SIGN LOCATIONS MAY BE MODIFIED IN THE FIELD TO PROVIDE MIN. HORIZONTAL CLEARANCES, AVOID EXISTING SIGNS AND UNDERGROUND FACILITIES.
2. ALL SIGNS SHALL HAVE A MINIMUM FOOTING DEPTH OF 36" UNLESS NOTED OTHERWISE.

SIGNING SHEETS
SHEET 53 OF 68

LAYOUT	NS	01/2025
DRAWN	SMC	01/2025
REVIEWED	DJK	01/2025

STATE OF MISSOURI
DENNIS J. KOSCIELSKI
NUMBER PE-2005000712
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED: 7/25/2025
ROUTE: 231 | STATE: MO
DISTRICT: SL | SHEET NO.: 402
COUNTY: ST. LOUIS
JOB NO.: J6S3631
CONTRACT ID.
PROJECT NO.
BRIDGE NO.

DESCRIPTION | DATE

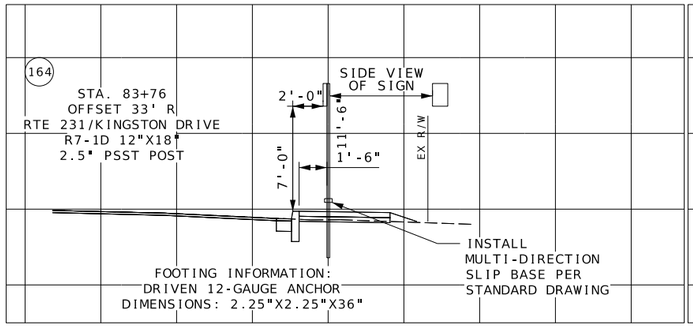
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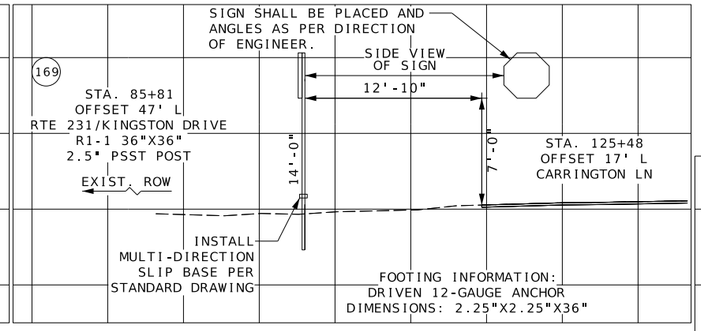
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

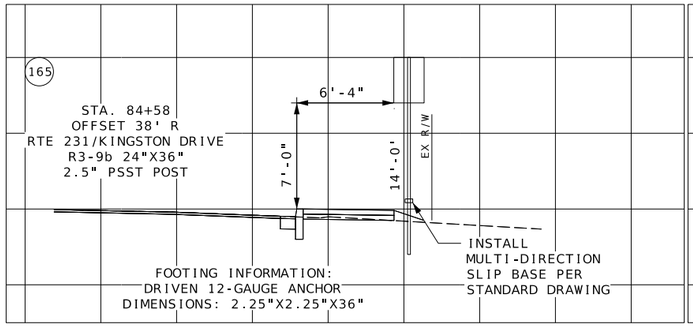
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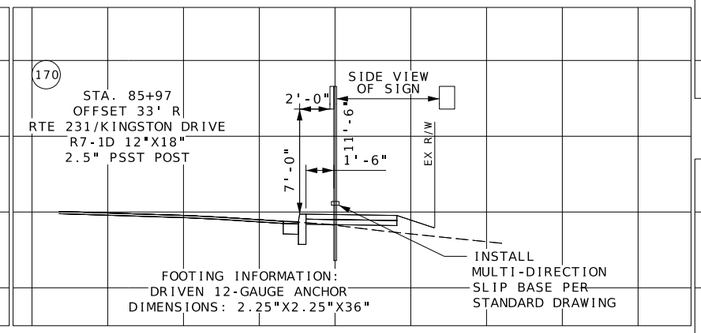
HANSON
Hanson Professional Services Inc.
600 Washington Ave., Suite 950
St. Louis, Missouri 63101
Professional Engineer 001632
www.hansonpro.com
314.770.0467

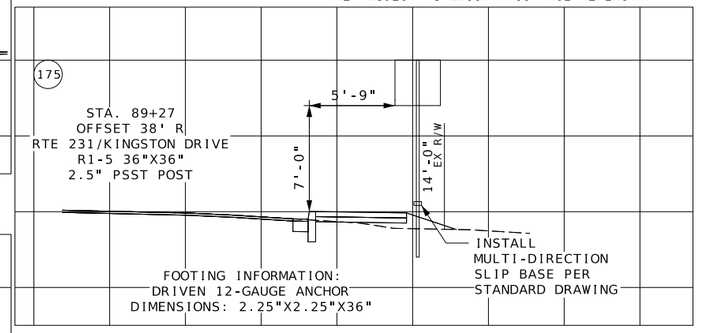
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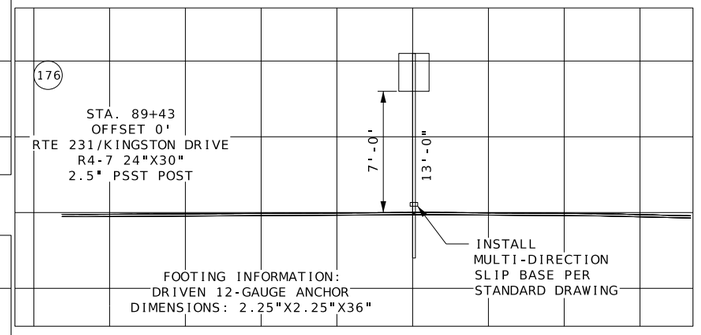


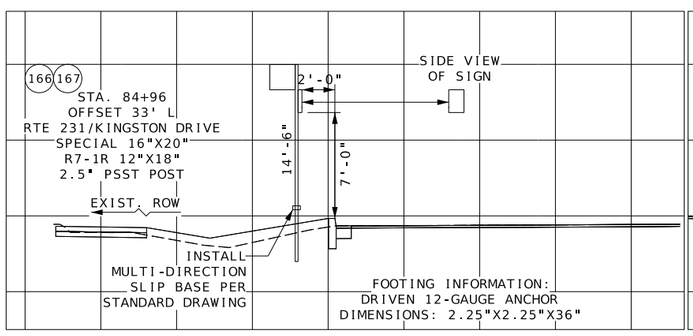


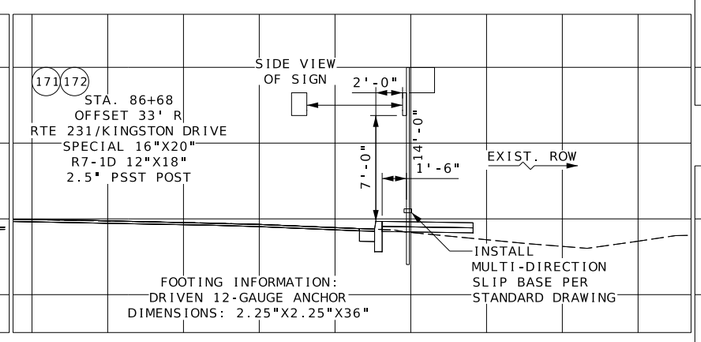


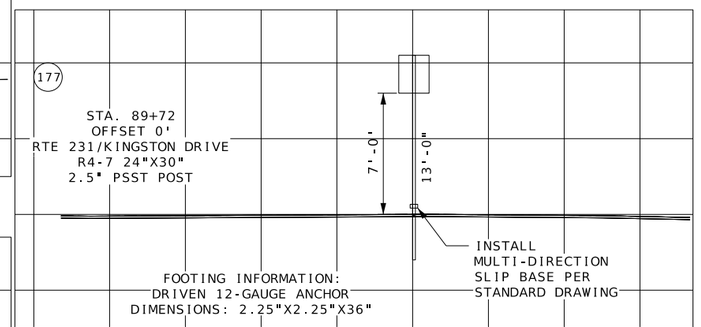


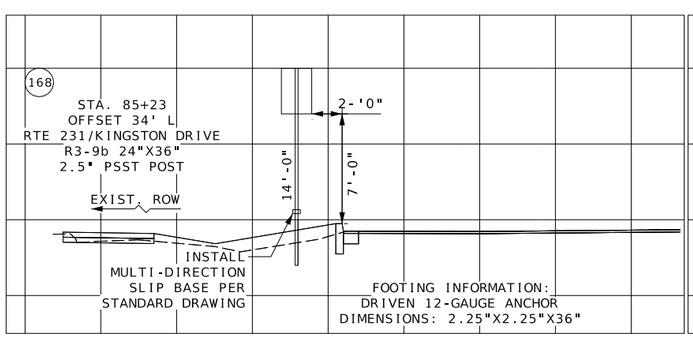


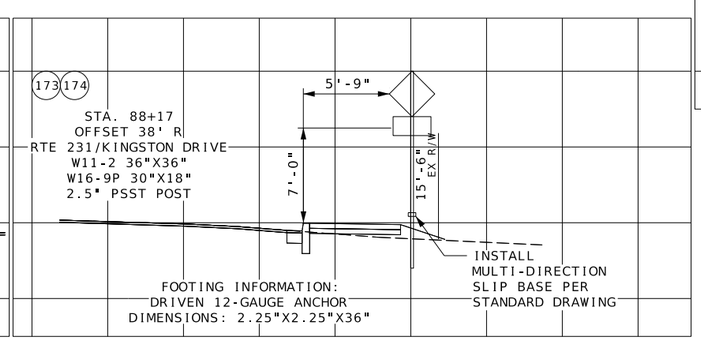












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SIGN CROSS SECTION
SHEET 11 OF 25

NOTES:
1. SIGN LOCATIONS MAY BE MODIFIED IN THE FIELD TO PROVIDE MIN. HORIZONTAL CLEARANCES, AVOID EXISTING SIGNS AND UNDERGROUND FACILITIES.
2. ALL SIGNS SHALL HAVE A MINIMUM FOOTING DEPTH OF 36" UNLESS NOTED OTHERWISE.

SIGNING SHEETS
SHEET 54 OF 68

LAYOUT	NS	01/2025
DRAWN	SMC	01/2025
REVIEWED	DJK	01/2025

STATE OF MISSOURI
DENNIS J. KOSCIELSKI
NUMBER PE-2005000712
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED: 7/25/2025
ROUTE: 231 | STATE: MO
DISTRICT: SL | SHEET NO.: 403
COUNTY: ST. LOUIS
JOB NO.: J6S3631
CONTRACT ID.:
PROJECT NO.:
BRIDGE NO.:

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

DESCRIPTION	DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

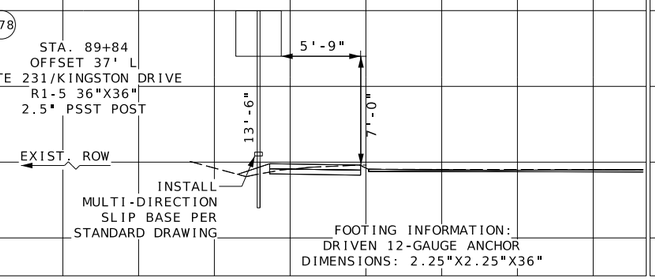
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St. Louis, Missouri 63101
Professional Engineer 001632
www.hanson-inc.com
314.770.0467

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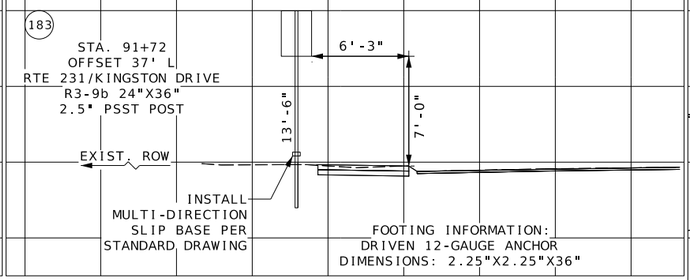
(178)

STA. 89+84
OFFSET 37' L
RTE 231/KINGSTON DRIVE
R1-5 36"X36"
2.5" PSST POST



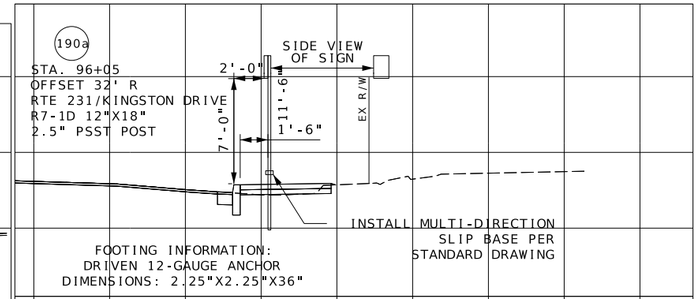
(183)

STA. 91+72
OFFSET 37' L
RTE 231/KINGSTON DRIVE
R3-9b 24"X36"
2.5" PSST POST



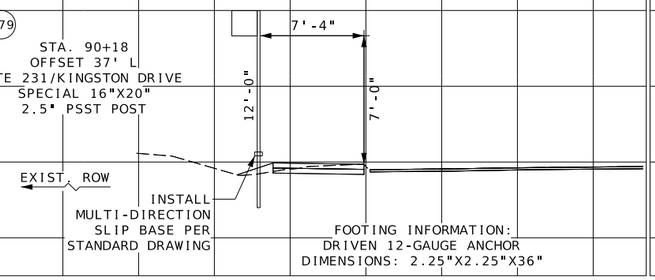
(190a)

STA. 96+05
OFFSET 32' R
RTE 231/KINGSTON DRIVE
R7-1D 12"X18"
2.5" PSST POST



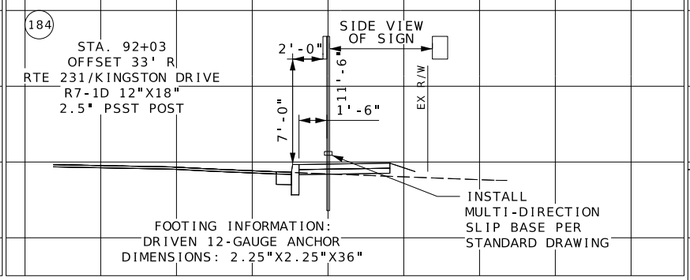
(179)

STA. 90+18
OFFSET 37' L
RTE 231/KINGSTON DRIVE
SPECIAL 16"X20"
2.5" PSST POST



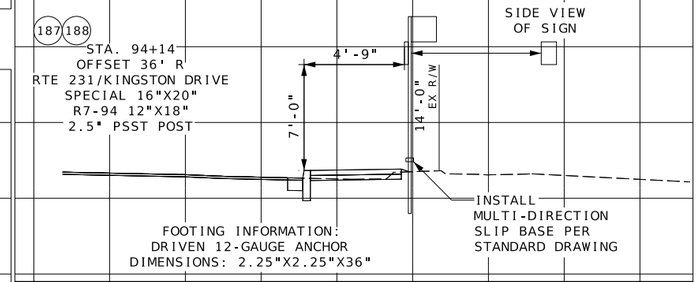
(184)

STA. 92+03
OFFSET 33' R
RTE 231/KINGSTON DRIVE
R7-1D 12"X18"
2.5" PSST POST



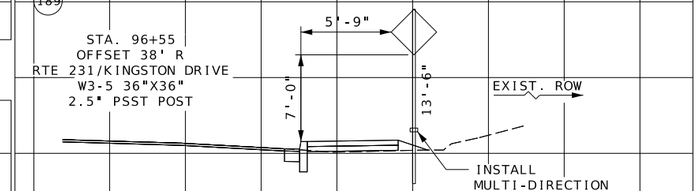
(187)(188)

STA. 94+14
OFFSET 36' R
RTE 231/KINGSTON DRIVE
SPECIAL 16"X20"
R7-94 12"X18"
2.5" PSST POST



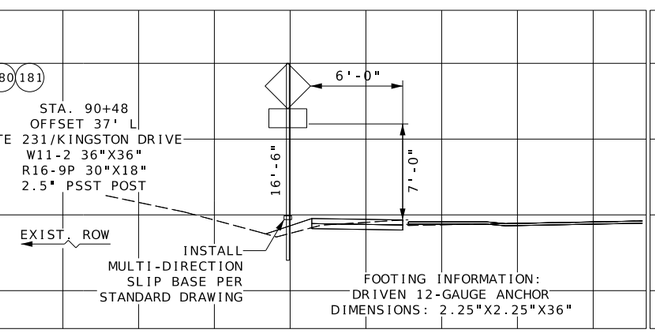
(189)

STA. 96+55
OFFSET 38' R
RTE 231/KINGSTON DRIVE
W3-5 36"X36"
2.5" PSST POST



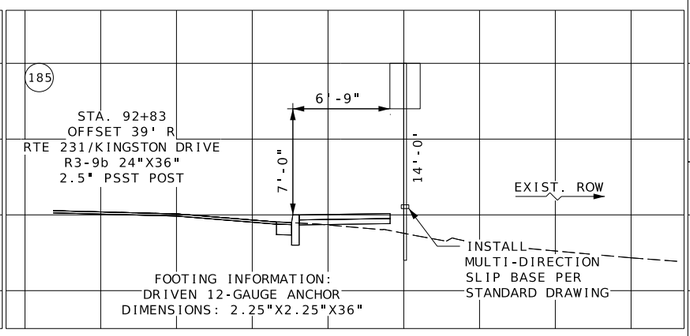
(180)(181)

STA. 90+48
OFFSET 37' L
RTE 231/KINGSTON DRIVE
W11-2 36"X36"
R16-9P 30"X18"
2.5" PSST POST



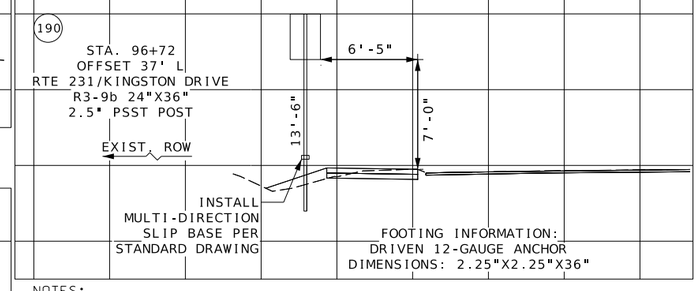
(185)

STA. 92+83
OFFSET 39' R
RTE 231/KINGSTON DRIVE
R3-9b 24"X36"
2.5" PSST POST



(190)

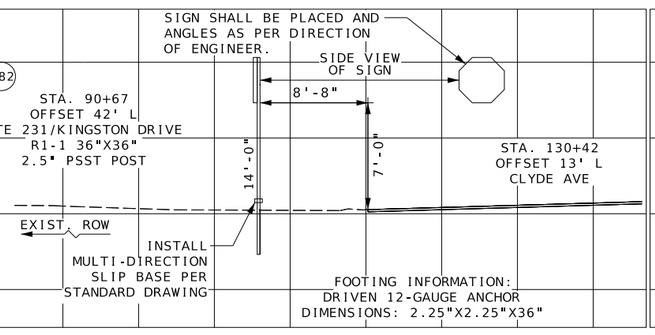
STA. 96+72
OFFSET 37' L
RTE 231/KINGSTON DRIVE
R3-9b 24"X36"
2.5" PSST POST



(182)

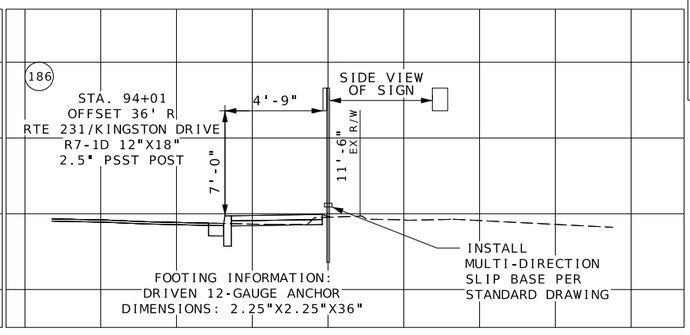
STA. 90+67
OFFSET 42' L
RTE 231/KINGSTON DRIVE
R1-1 36"X36"
2.5" PSST POST

SIGN SHALL BE PLACED AND ANGLES AS PER DIRECTION OF ENGINEER.



(186)

STA. 94+01
OFFSET 36' R
RTE 231/KINGSTON DRIVE
R7-1D 12"X18"
2.5" PSST POST



NOTES:
1. SIGN LOCATIONS MAY BE MODIFIED IN THE FIELD TO PROVIDE MIN. HORIZONTAL CLEARANCES, AVOID EXISTING SIGNS AND UNDERGROUND FACILITIES.
2. ALL SIGNS SHALL HAVE A MINIMUM FOOTING DEPTH OF 36" UNLESS NOTED OTHERWISE.

SIGN CROSS SECTION
SHEET 12 OF 25

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SIGNING SHEETS
SHEET 55 OF 68

LAYOUT	NS	01/2025
DRAWN	SMC	01/2025
REVIEWED	DJK	01/2025

STATE OF MISSOURI
DENNIS J. KOSCIELSKI
NUMBER PE-2005000712
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED
7/25/2025

ROUTE	STATE
231	MO
DISTRICT	SHEET NO.
SL	404

COUNTY
ST. LOUIS

JOB NO.
J6S3631

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION	DATE

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

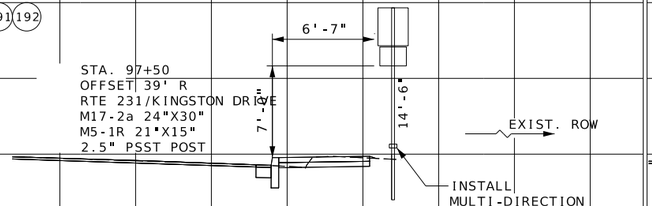
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191 192

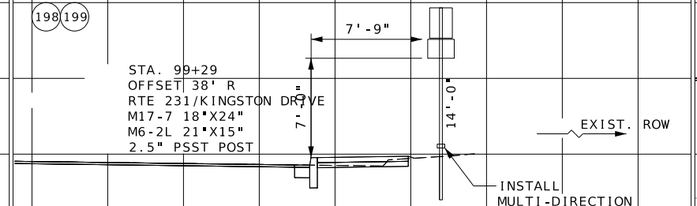
STA. 97+50
OFFSET 39' R
RTE 231/KINGSTON DRIVE
M17-2a 24"X30"
M5-1R 21"X15"
2.5" PSST POST



FOOTING INFORMATION:
DRIVEN 12-GAUGE ANCHOR
DIMENSIONS: 2.25"X2.25"X36"

198 199

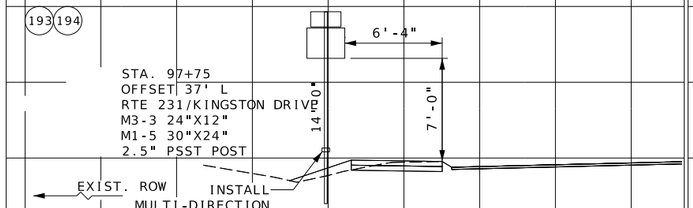
STA. 99+29
OFFSET 38' R
RTE 231/KINGSTON DRIVE
M17-7 18"X24"
M6-2L 21"X15"
2.5" PSST POST



FOOTING INFORMATION:
DRIVEN 12-GAUGE ANCHOR
DIMENSIONS: 2.25"X2.25"X36"

193 194

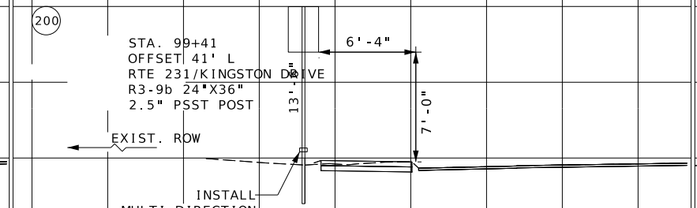
STA. 97+75
OFFSET 37' L
RTE 231/KINGSTON DRIVE
M3-3 24"X12"
M1-5 30"X24"
2.5" PSST POST



FOOTING INFORMATION:
DRIVEN 12-GAUGE ANCHOR
DIMENSIONS: 2.25"X2.25"X36"

200

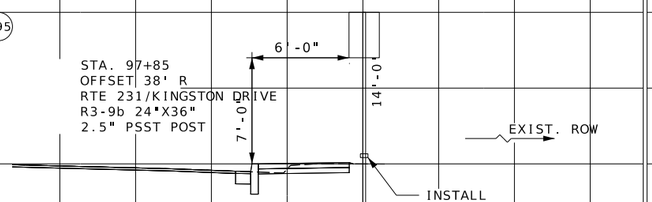
STA. 99+41
OFFSET 41' L
RTE 231/KINGSTON DRIVE
R3-9b 24"X36"
2.5" PSST POST



FOOTING INFORMATION:
DRIVEN 12-GAUGE ANCHOR
DIMENSIONS: 2.25"X2.25"X36"

195

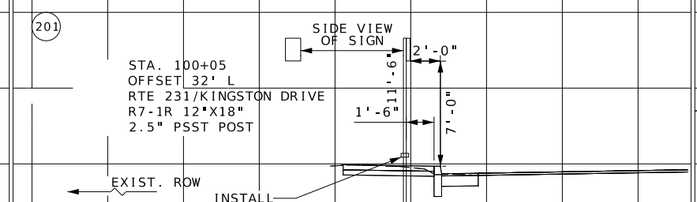
STA. 97+85
OFFSET 38' R
RTE 231/KINGSTON DRIVE
R3-9b 24"X36"
2.5" PSST POST



FOOTING INFORMATION:
DRIVEN 12-GAUGE ANCHOR
DIMENSIONS: 2.25"X2.25"X36"

201

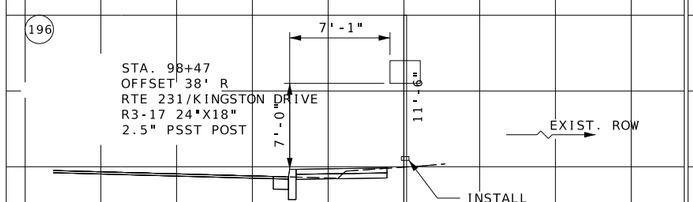
STA. 100+05
OFFSET 32' L
RTE 231/KINGSTON DRIVE
R7-1R 12"X18"
2.5" PSST POST



FOOTING INFORMATION:
DRIVEN 12-GAUGE ANCHOR
DIMENSIONS: 2.25"X2.25"X36"

196

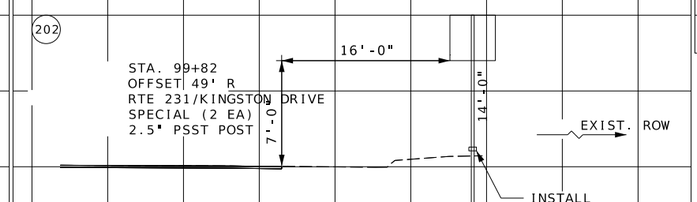
STA. 98+47
OFFSET 38' R
RTE 231/KINGSTON DRIVE
R3-17 24"X18"
2.5" PSST POST



FOOTING INFORMATION:
DRIVEN 12-GAUGE ANCHOR
DIMENSIONS: 2.25"X2.25"X36"

202

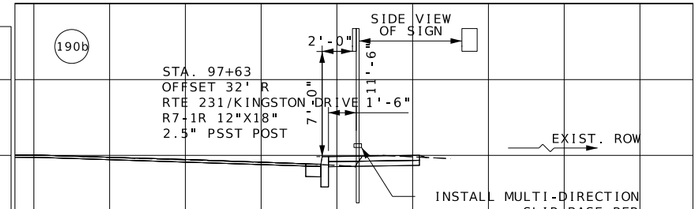
STA. 99+82
OFFSET 49' R
RTE 231/KINGSTON DRIVE
SPECIAL (2 EA)
2.5" PSST POST



FOOTING INFORMATION:
DRIVEN 12-GAUGE ANCHOR
DIMENSIONS: 2.25"X2.25"X36"

190b

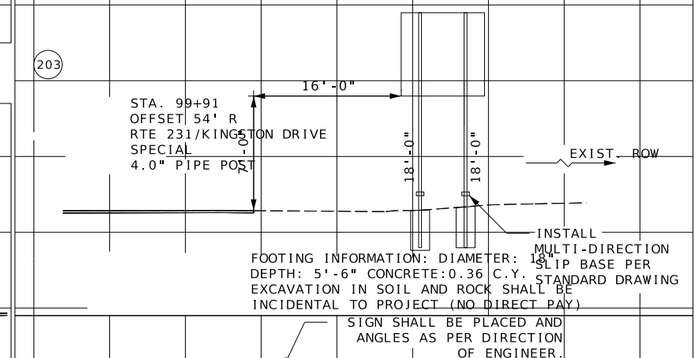
STA. 97+63
OFFSET 32' R
RTE 231/KINGSTON DRIVE
R7-1R 12"X18"
2.5" PSST POST



FOOTING INFORMATION:
DRIVEN 12-GAUGE ANCHOR
DIMENSIONS: 2.25"X2.25"X36"

203

STA. 99+91
OFFSET 54' R
RTE 231/KINGSTON DRIVE
SPECIAL
4.0" PIPE POST

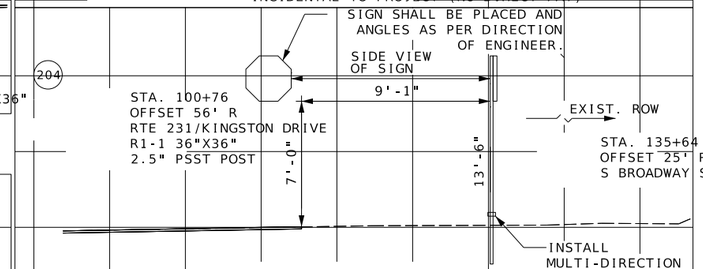


FOOTING INFORMATION: DIAMETER: 18"
DEPTH: 5'-6" CONCRETE:0.36 C.Y. STANDARD DRAWING
EXCAVATION IN SOIL AND ROCK SHALL BE
INCIDENTAL TO PROJECT (NO DIRECT PAY)

204

SIGN SHALL BE PLACED AND ANGLES AS PER DIRECTION OF ENGINEER.

STA. 100+76
OFFSET 56' R
RTE 231/KINGSTON DRIVE
R1-1 36"X36"
2.5" PSST POST

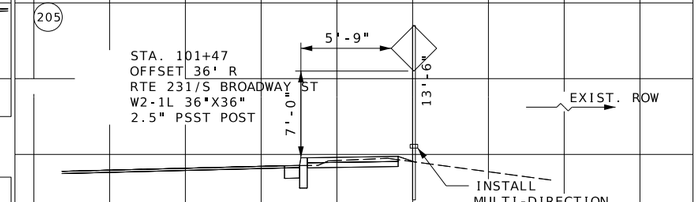


STA. 135+64
OFFSET 25' R
S BROADWAY ST

FOOTING INFORMATION:
DRIVEN 12-GAUGE ANCHOR
DIMENSIONS: 2.25"X2.25"X36"

205

STA. 101+47
OFFSET 36' R
RTE 231/S BROADWAY ST
W2-1L 36"X36"
2.5" PSST POST



FOOTING INFORMATION:
DRIVEN 12-GAUGE ANCHOR
DIMENSIONS: 2.25"X2.25"X36"

NOTES:
1. SIGN LOCATIONS MAY BE MODIFIED IN THE FIELD TO PROVIDE MIN. HORIZONTAL CLEARANCES, AVOID EXISTING SIGNS AND UNDERGROUND FACILITIES.
2. ALL SIGNS SHALL HAVE A MINIMUM FOOTING DEPTH OF 36" UNLESS NOTED OTHERWISE.

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SIGN CROSS SECTION
SHEET 13 OF 25

SIGNING SHEETS
SHEET 56 OF 68

LAYOUT	NS	01/2025
DRAWN	SMC	01/2025
REVIEWED	DJK	01/2025

STATE OF MISSOURI
DENNIS J KOSCIELSKI
NUMBER PE-2005000712
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED
7/25/2025

ROUTE	STATE
231	MO
DISTRICT	SHEET NO.
SL	405

COUNTY
ST. LOUIS

JOB NO.
J6S3631

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION	DATE

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL
JEFFERSON CITY, MO 65102
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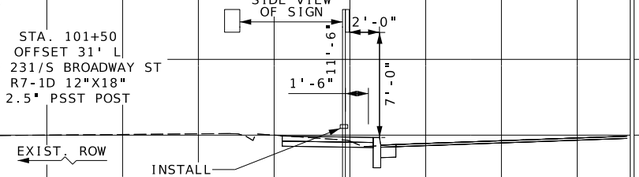
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Professional Engineer 001632
www.hanson-inc.com
314.770.0467

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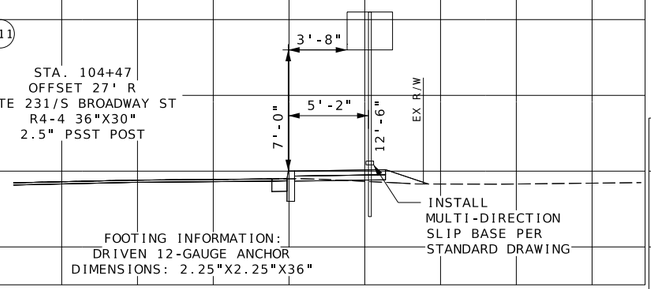
206

STA. 101+50
OFFSET 31' L
RTE 231/S BROADWAY ST
R7-1D 12"X18"
2.5" PSST POST



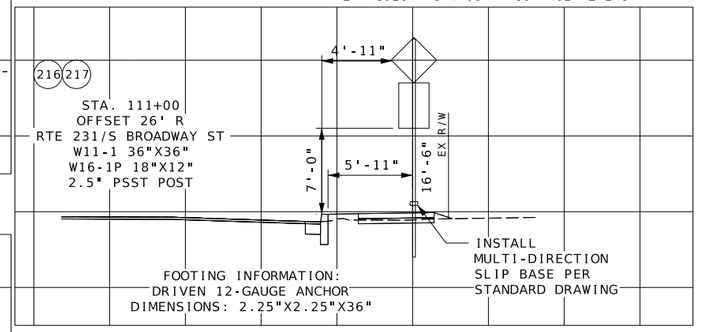
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STA. 104+47
OFFSET 27' R
RTE 231/S BROADWAY ST
R4-4 36"X30"
2.5" PSST POST



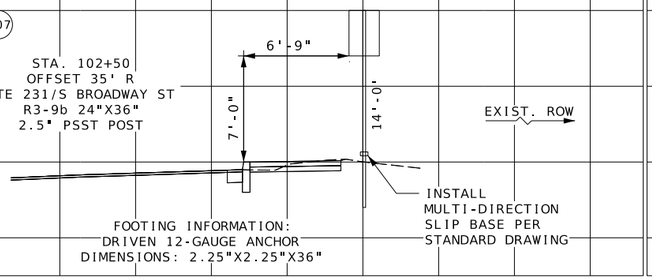
216 217

STA. 111+00
OFFSET 26' R
RTE 231/S BROADWAY ST
W11-1 36"X36"
W16-1P 18"X12"
2.5" PSST POST



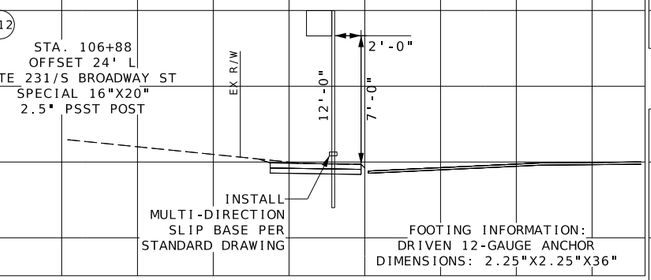
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STA. 102+50
OFFSET 35' R
RTE 231/S BROADWAY ST
R3-9b 24"X36"
2.5" PSST POST



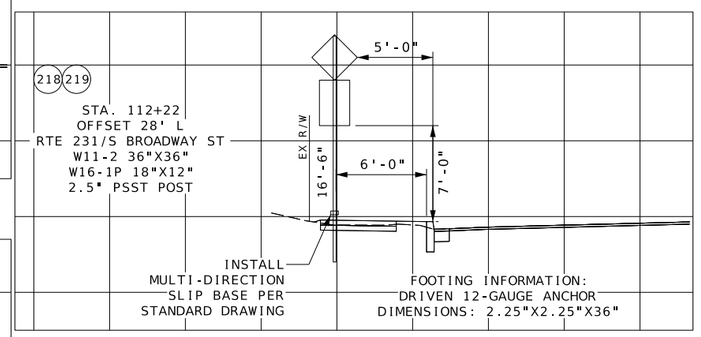
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STA. 106+88
OFFSET 24' L
RTE 231/S BROADWAY ST
SPECIAL 16"X20"
2.5" PSST POST



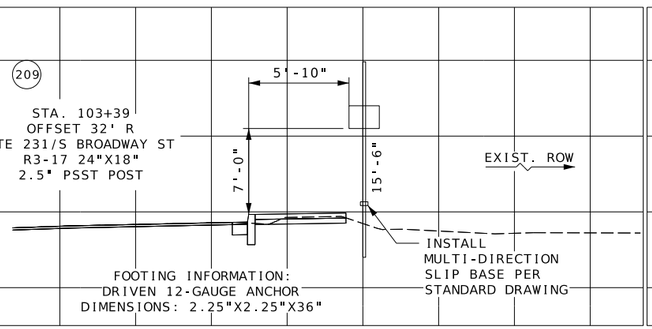
218 219

STA. 112+22
OFFSET 28' L
RTE 231/S BROADWAY ST
W11-2 36"X36"
W16-1P 18"X12"
2.5" PSST POST



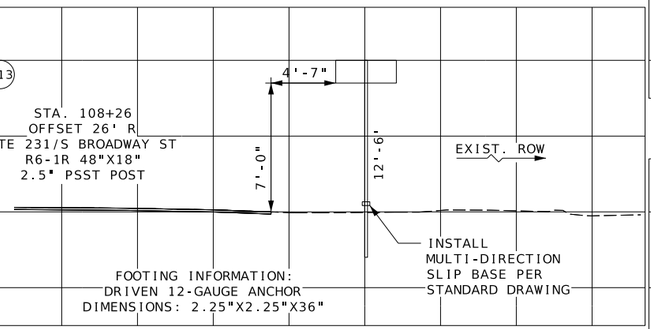
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STA. 103+39
OFFSET 32' R
RTE 231/S BROADWAY ST
R3-17 24"X18"
2.5" PSST POST



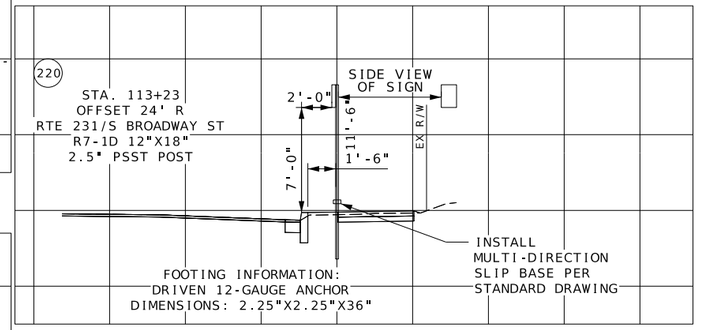
213

STA. 108+26
OFFSET 26' R
RTE 231/S BROADWAY ST
R6-1R 48"X18"
2.5" PSST POST



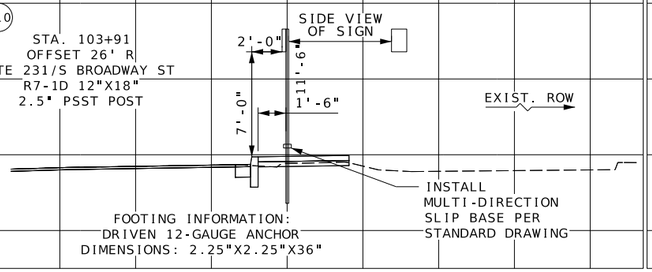
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STA. 113+23
OFFSET 24' R
RTE 231/S BROADWAY ST
R7-1D 12"X18"
2.5" PSST POST



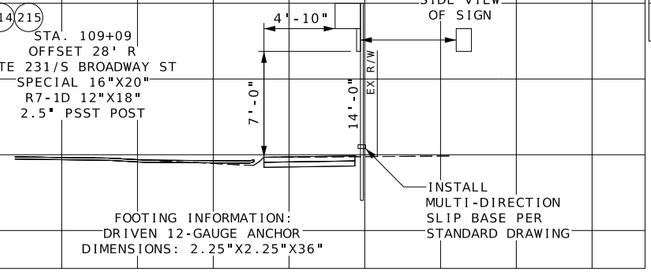
210

STA. 103+91
OFFSET 26' R
RTE 231/S BROADWAY ST
R7-1D 12"X18"
2.5" PSST POST



214 215

STA. 109+09
OFFSET 28' R
RTE 231/S BROADWAY ST
SPECIAL 16"X20"
R7-1D 12"X18"
2.5" PSST POST



SIGN CROSS SECTION
SHEET 14 OF 25

NOTES:
1. SIGN LOCATIONS MAY BE MODIFIED IN THE FIELD TO PROVIDE MIN. HORIZONTAL CLEARANCES, AVOID EXISTING SIGNS AND UNDERGROUND FACILITIES.
2. ALL SIGNS SHALL HAVE A MINIMUM FOOTING DEPTH OF 36" UNLESS NOTED OTHERWISE.

SIGNING SHEETS
SHEET 57 OF 68

LAYOUT	NS	01/2025
DRAWN	SMC	01/2025
REVIEWED	DJK	01/2025

STATE OF MISSOURI
DENNIS J. KOSCIELSKI
NUMBER PE-2005000712
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED
7/25/2025

ROUTE	STATE
231	MO
DISTRICT	SHEET NO.
SL	406

COUNTY
ST. LOUIS

JOB NO.
J6S3631

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION	DATE

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

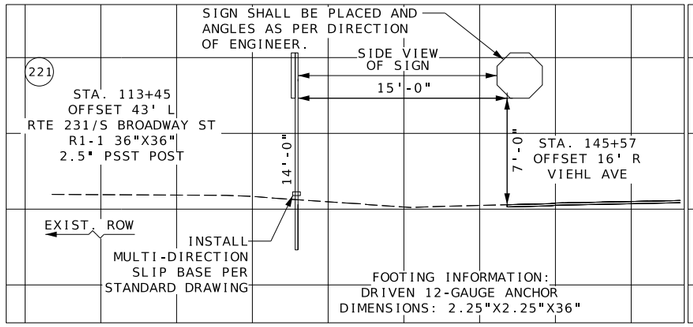
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

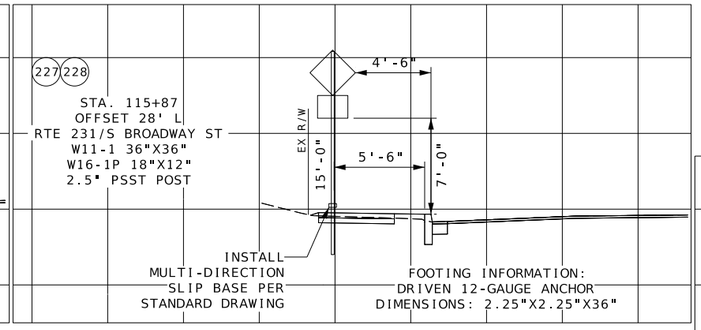
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JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

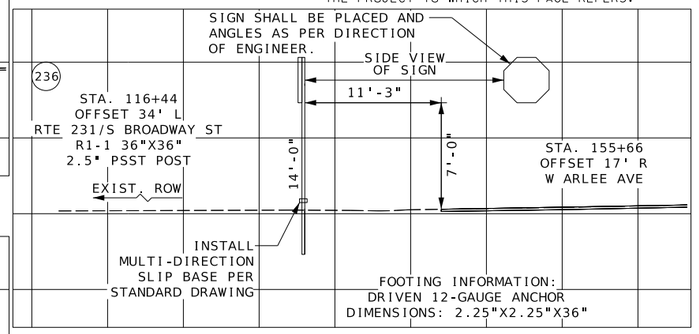
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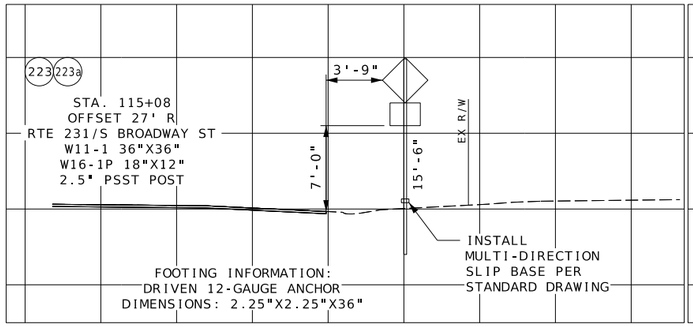
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St. Louis, Missouri 63101
Professional Engineer 00163
www.hanson-inc.com
314.770.0467

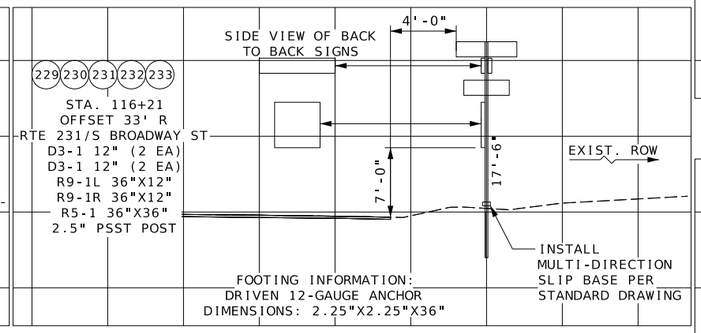
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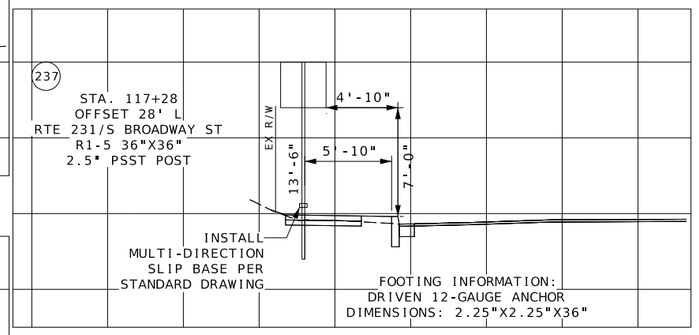


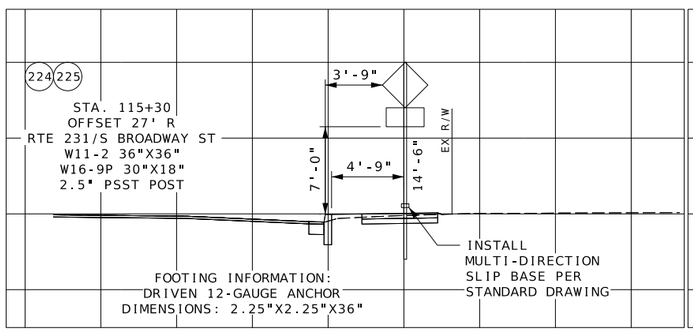


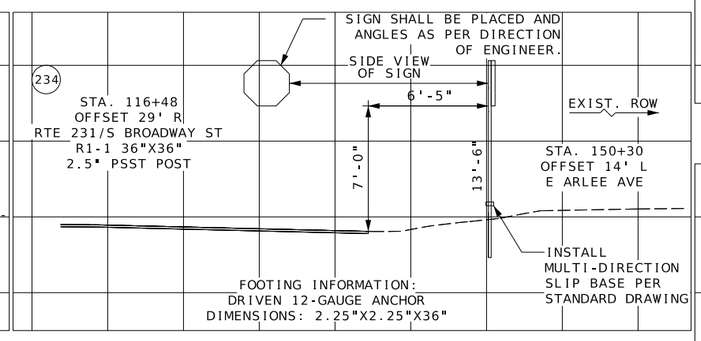


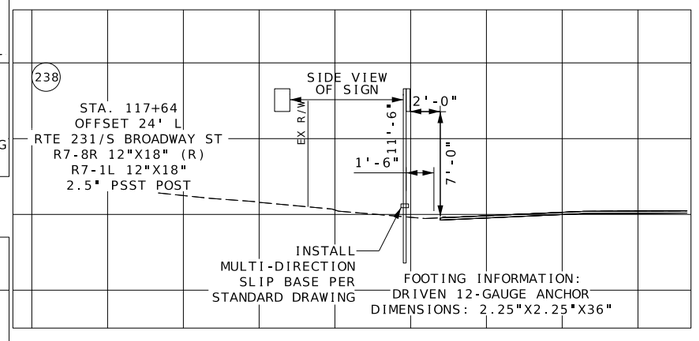


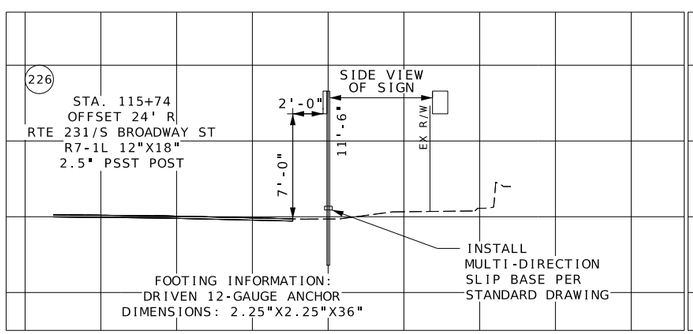


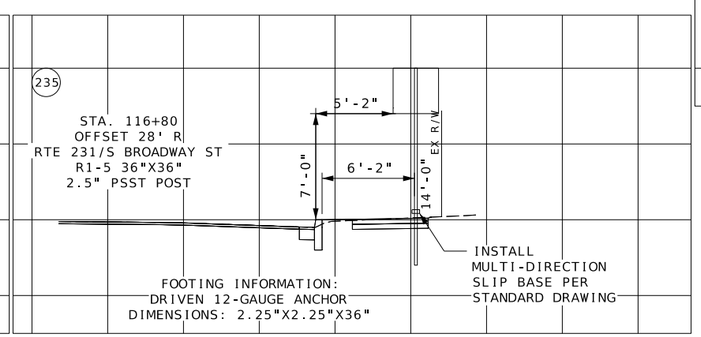












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SIGN CROSS SECTION
SHEET 15 OF 25

NOTES:
1. SIGN LOCATIONS MAY BE MODIFIED IN THE FIELD TO PROVIDE MIN. HORIZONTAL CLEARANCES, AVOID EXISTING SIGNS AND UNDERGROUND FACILITIES.
2. ALL SIGNS SHALL HAVE A MINIMUM FOOTING DEPTH OF 36" UNLESS NOTED OTHERWISE.

SIGNING SHEETS
SHEET 58 OF 68

LAYOUT	NS	01/2025
DRAWN	SMC	01/2025
REVIEWED	DJK	01/2025

STATE OF MISSOURI
DENNIS J KOSCIELSKI
NUMBER PE-2005000712
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED 7/25/2025
ROUTE 231 | STATE MO
DISTRICT SL | SHEET NO. 407
COUNTY ST. LOUIS
JOB NO. J6S3631
CONTRACT ID.
PROJECT NO.
BRIDGE NO.

DESCRIPTION	DATE

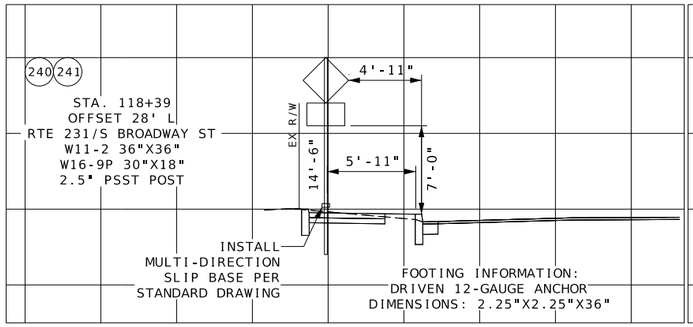
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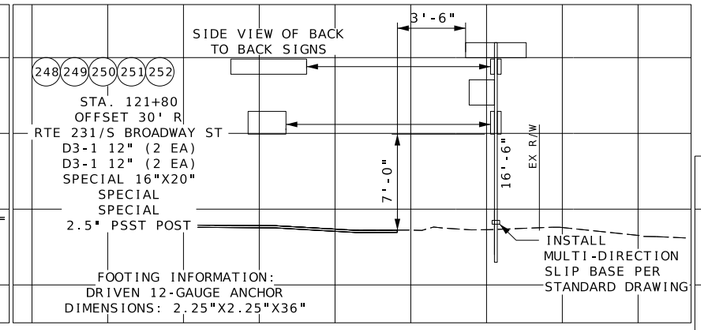
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

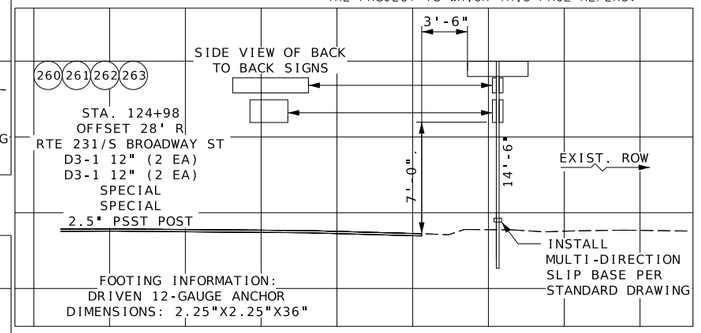
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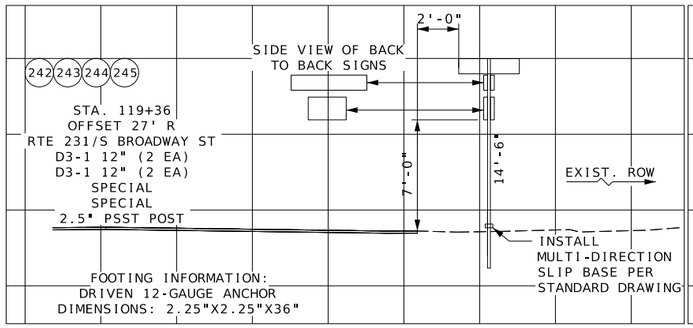
HANSON
Hanson Professional Services Inc.
600 Washington Ave., Suite 950
St. Louis, Missouri 63101
Professional Engineer 001632
www.hansonpros.com
314.770.0467

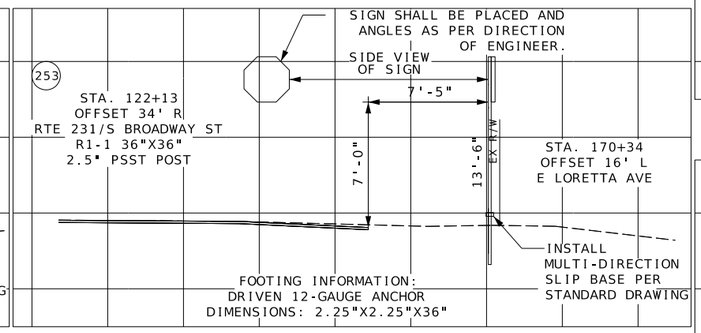
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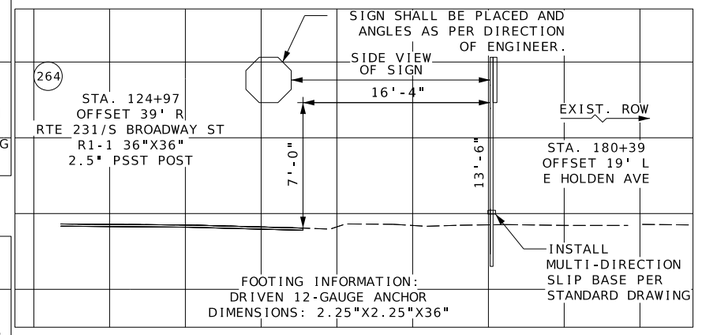


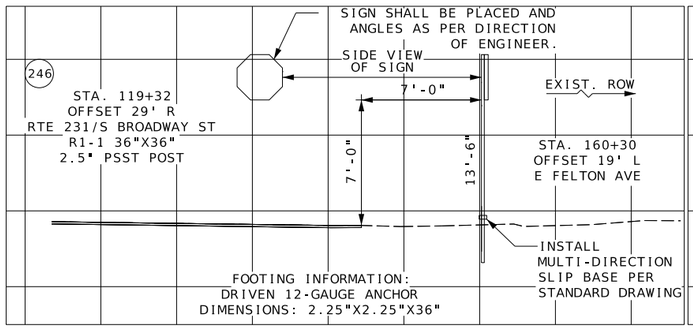


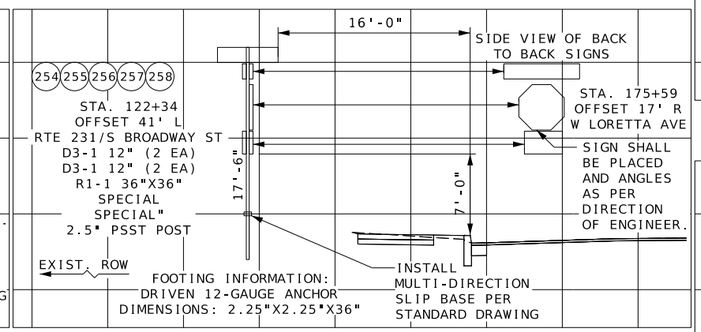


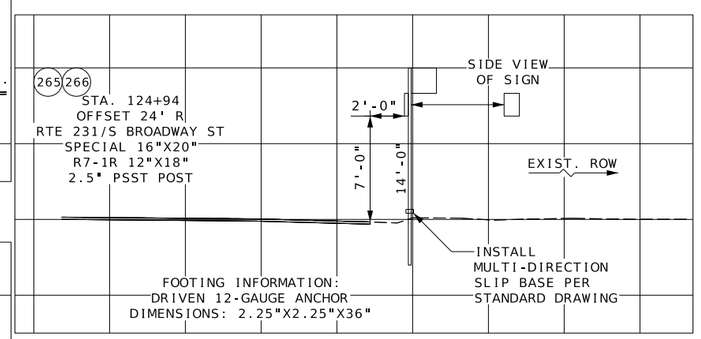


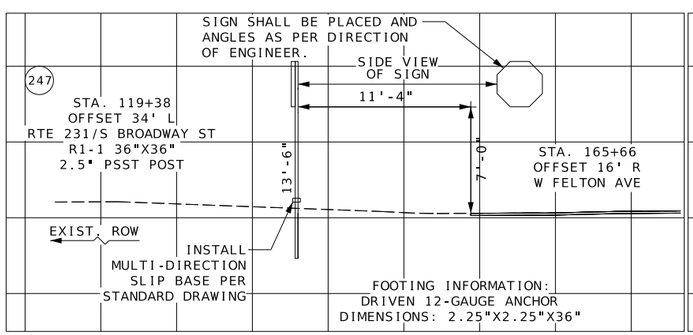


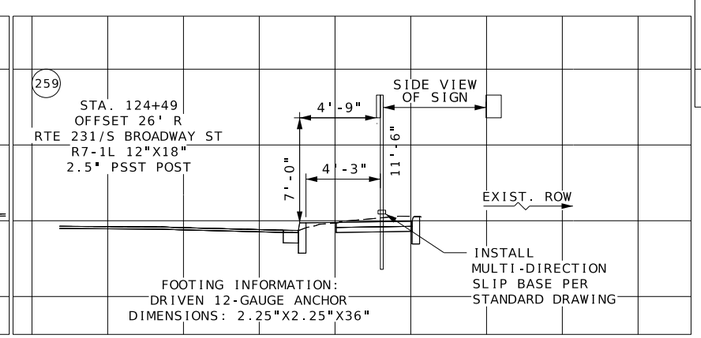












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SIGN CROSS SECTION
SHEET 16 OF 25

NOTES:
1. SIGN LOCATIONS MAY BE MODIFIED IN THE FIELD TO PROVIDE MIN. HORIZONTAL CLEARANCES, AVOID EXISTING SIGNS AND UNDERGROUND FACILITIES.
2. ALL SIGNS SHALL HAVE A MINIMUM FOOTING DEPTH OF 36" UNLESS NOTED OTHERWISE.

SIGNING SHEETS
SHEET 59 OF 68

STATE OF MISSOURI
DENNIS J KOSCIELSKI
NUMBER PE-2005000712
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED	
7/25/2025	
ROUTE	STATE
231	MO
DISTRICT	SHEET NO.
SL	408
COUNTY	
ST. LOUIS	
JOB NO.	
J6S3631	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

NO	DATE	DESCRIPTION

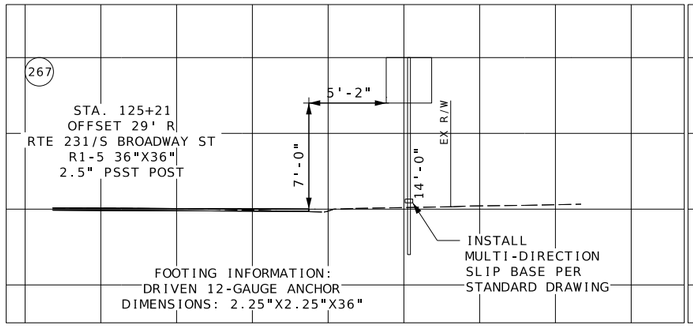
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

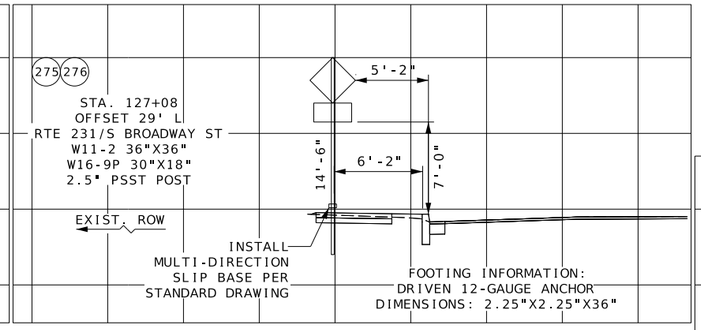
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600 Washington Ave., Suite 950
St. Louis, Missouri 63101
Professional Engineer 001632
www.hanson-inc.com
314.770.0467

	NS	01/2025
LAYOUT	SMC	01/2025
DRAWN	DJK	01/2025
REVIEWED		

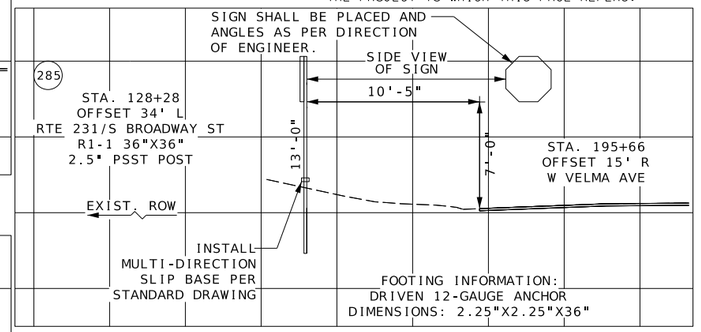
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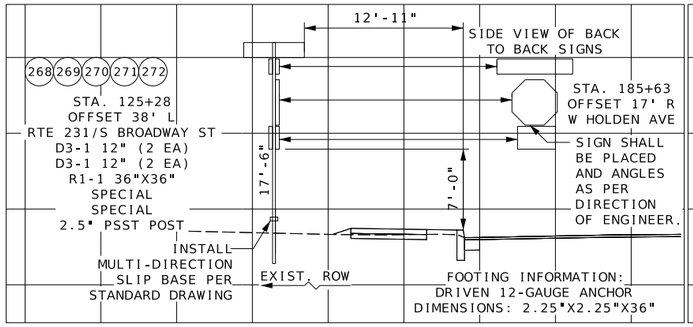


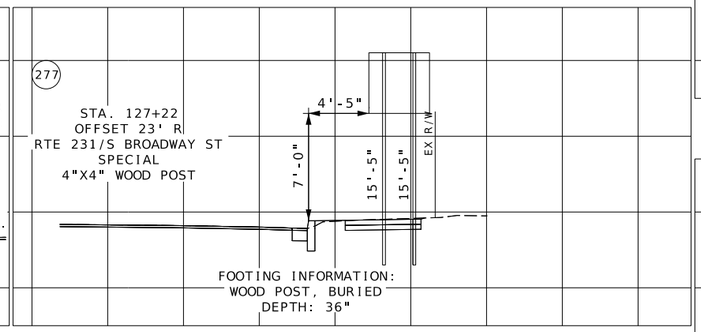


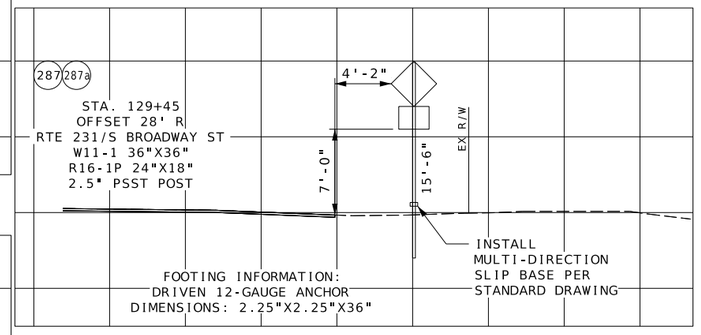
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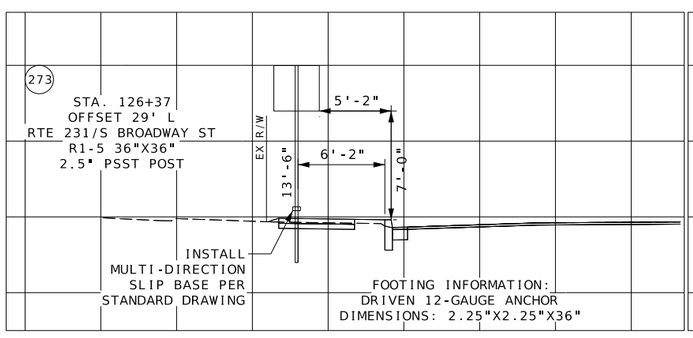
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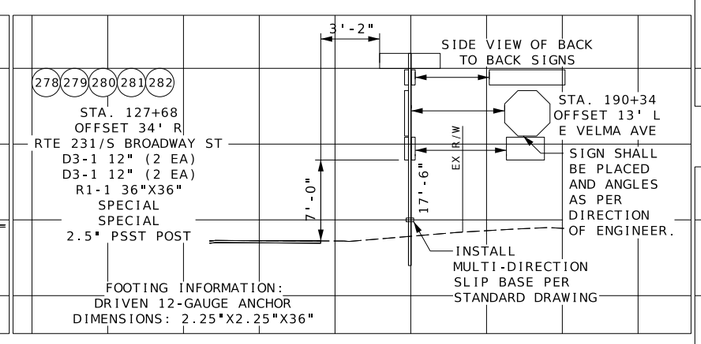


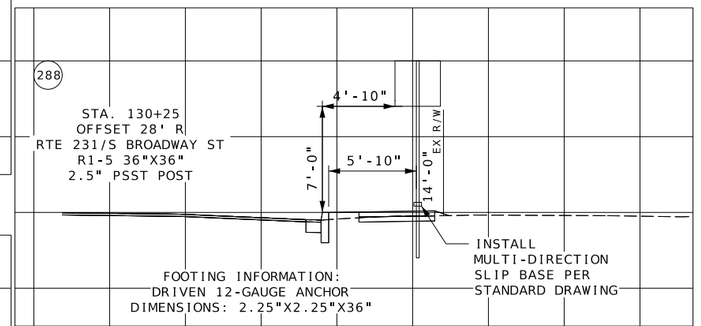


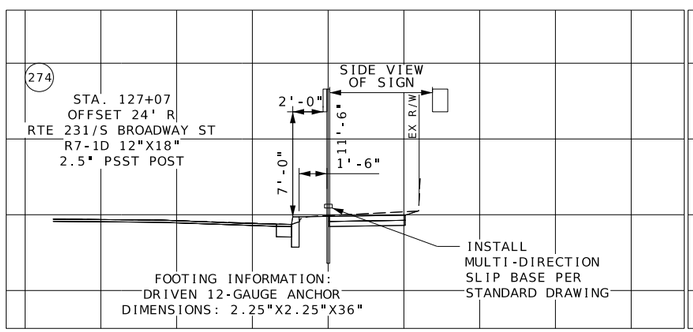


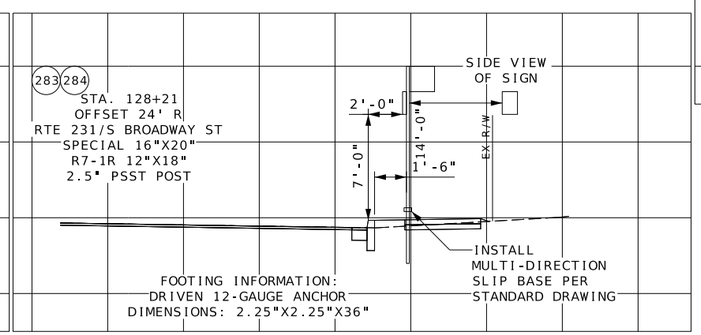












SIGN CROSS SECTION
SHEET 17 OF 25

NOTES:
1. SIGN LOCATIONS MAY BE MODIFIED IN THE FIELD TO PROVIDE MIN. HORIZONTAL CLEARANCES, AVOID EXISTING SIGNS AND UNDERGROUND FACILITIES.
2. ALL SIGNS SHALL HAVE A MINIMUM FOOTING DEPTH OF 36" UNLESS NOTED OTHERWISE.

SIGNING SHEETS
SHEET 60 OF 68

LAYOUT	NS	01/2025
DRAWN	SMC	01/2025
REVIEWED	DJK	01/2025

STATE OF MISSOURI
DENNIS J. KOSCIELSKI
NUMBER PE-2005000712
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED: 7/25/2025

ROUTE	STATE
231	MO
DISTRICT	SHEET NO.
SL	409

COUNTY: ST. LOUIS
JOB NO.: J6S3631
CONTRACT ID.:
PROJECT NO.:
BRIDGE NO.:

DESCRIPTION	DATE

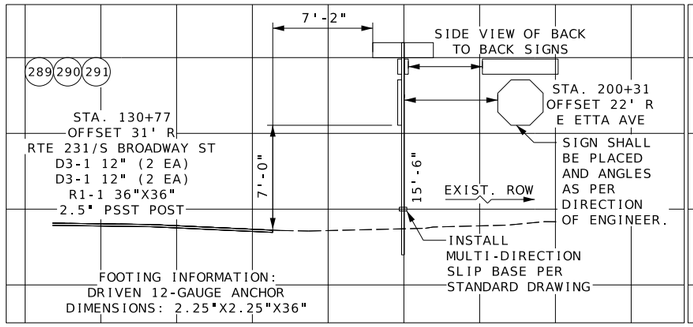
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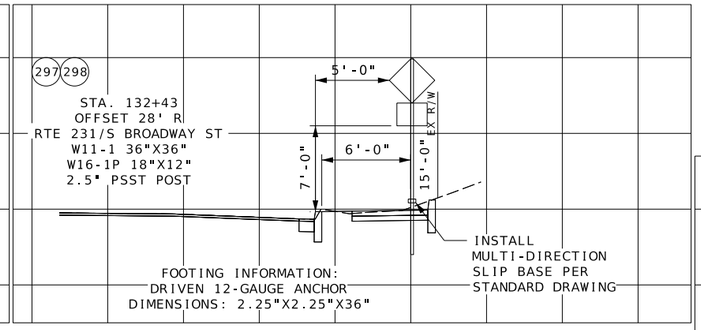
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105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

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314.770.0467

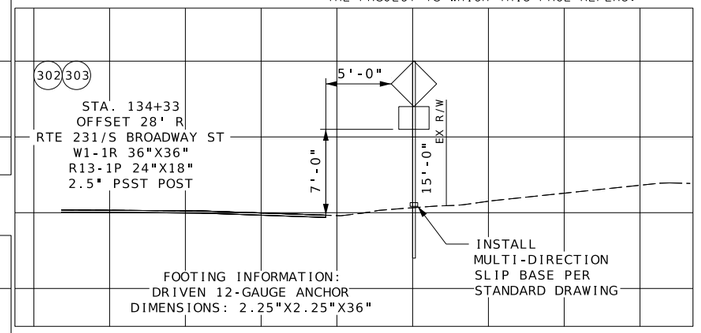
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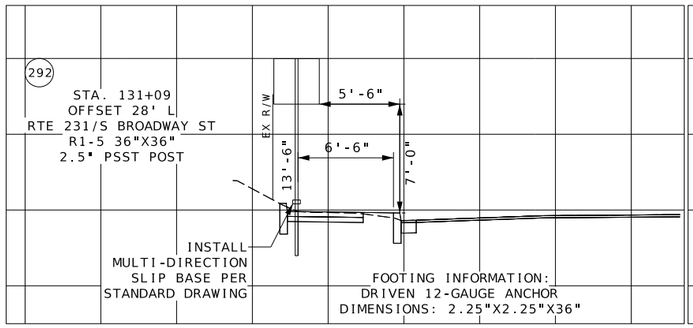


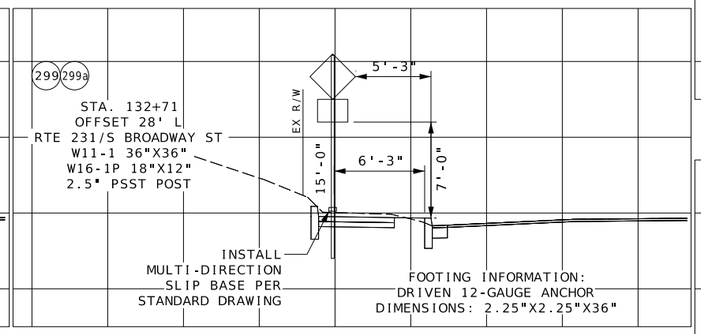


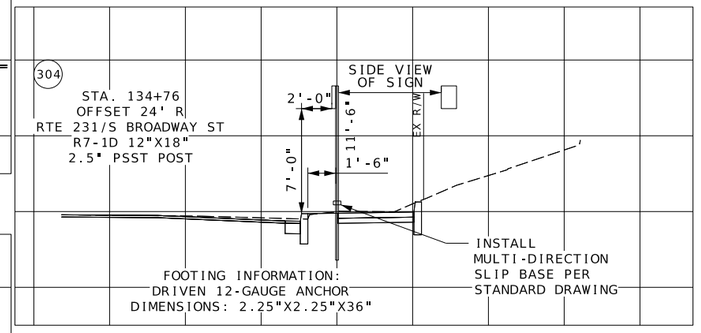
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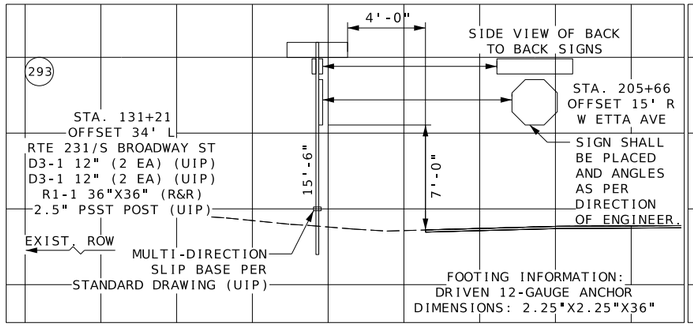
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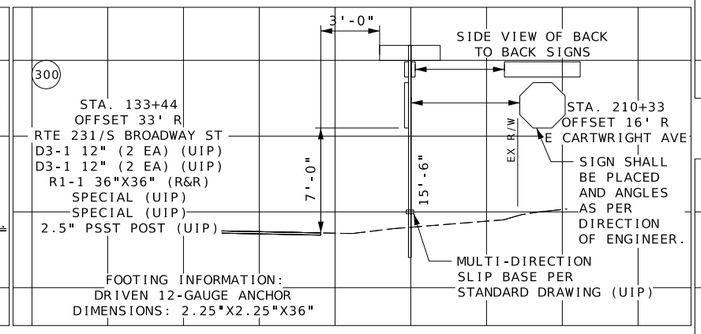


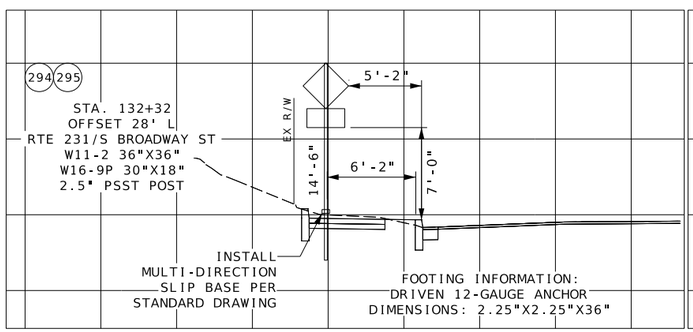


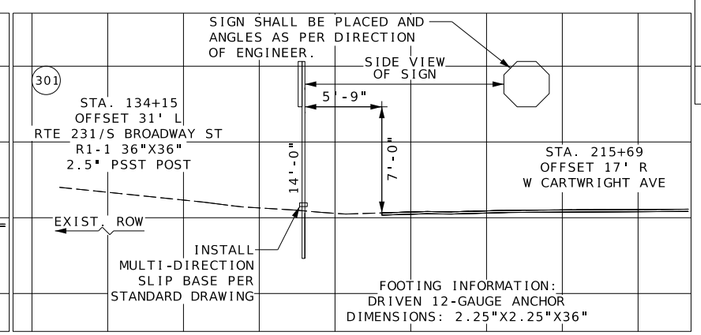












SIGN CROSS SECTION
SHEET 18 OF 25

NOTES:
1. SIGN LOCATIONS MAY BE MODIFIED IN THE FIELD TO PROVIDE MIN. HORIZONTAL CLEARANCES, AVOID EXISTING SIGNS AND UNDERGROUND FACILITIES.
2. ALL SIGNS SHALL HAVE A MINIMUM FOOTING DEPTH OF 36" UNLESS NOTED OTHERWISE.

SIGNING SHEETS
SHEET 61 OF 68

LAYOUT	NS	01/2025
DRAWN	SMC	01/2025
REVIEWED	DJK	01/2025

STATE OF MISSOURI
DENNIS J KOSCIELSKI
NUMBER PE-2005000712
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED: 7/25/2025
ROUTE: 231 | STATE: MO
DISTRICT: SL | SHEET NO.: 410
COUNTY: ST. LOUIS
JOB NO.: J6S3631
CONTRACT ID.:
PROJECT NO.:
BRIDGE NO.:

NO.	DESCRIPTION	DATE

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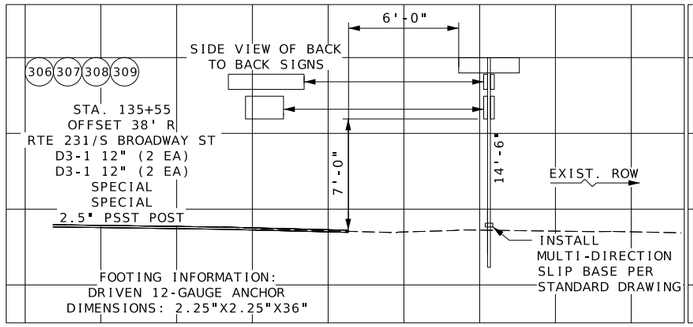
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JEFFERSON CITY, MO 65102
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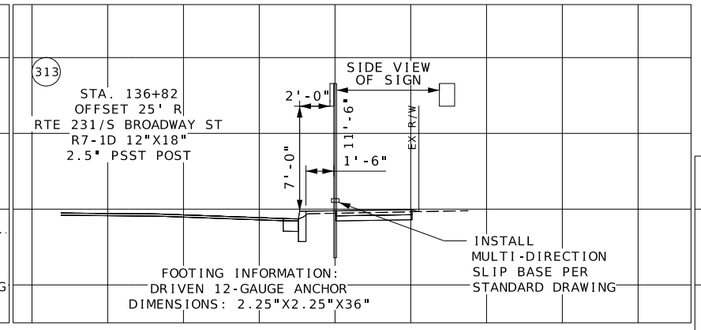
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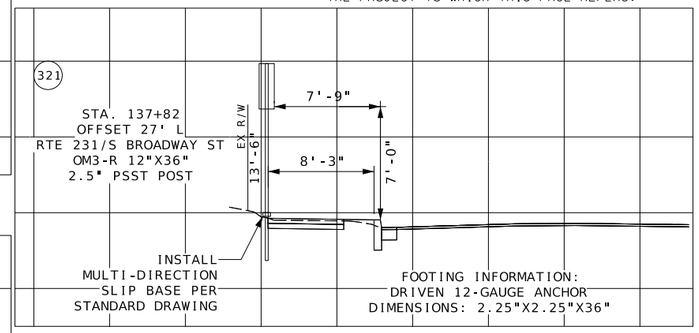
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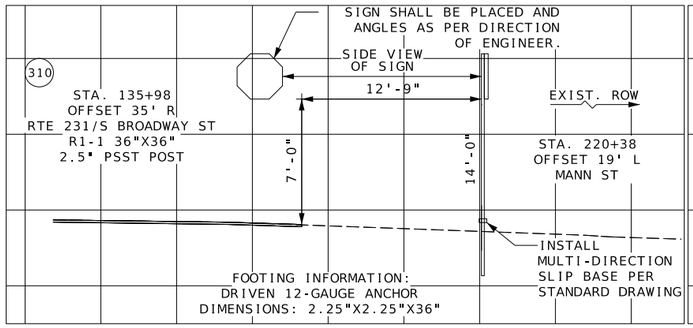
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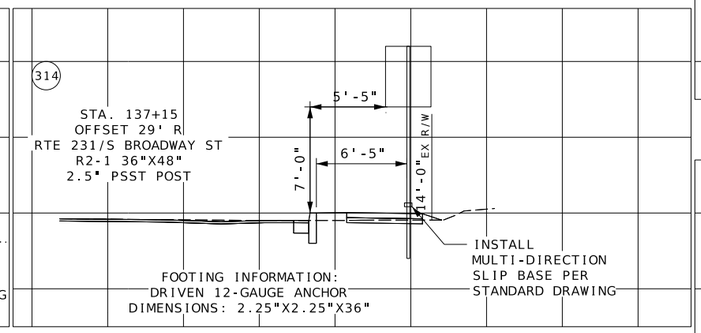
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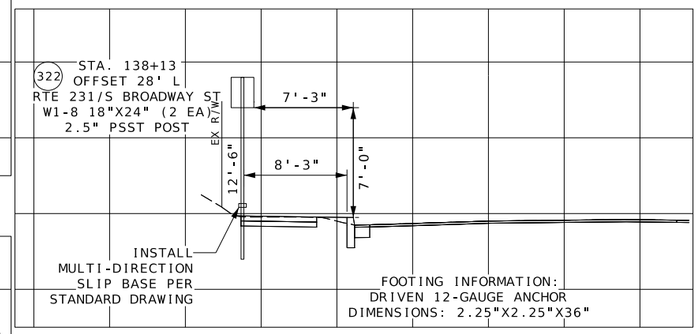


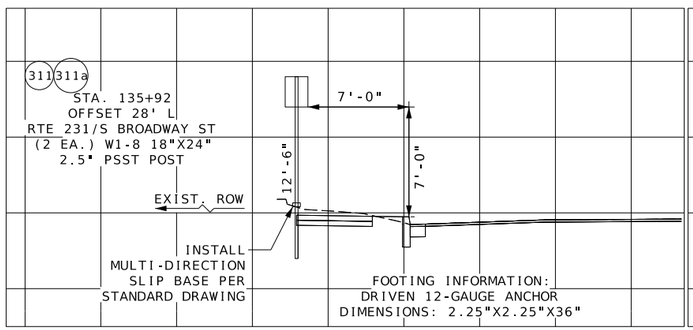


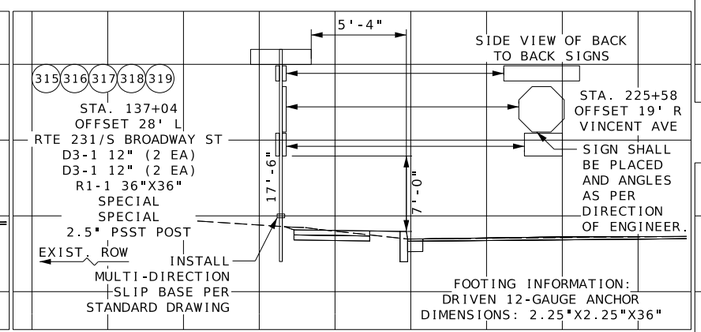


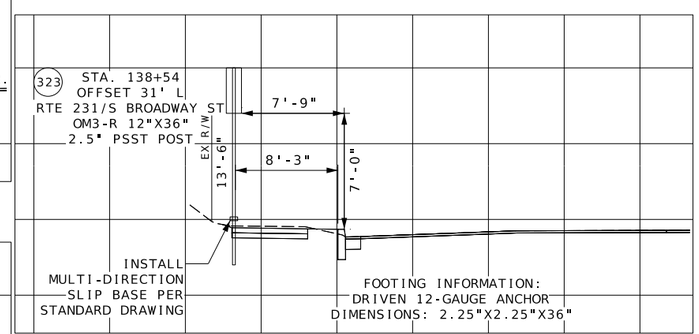


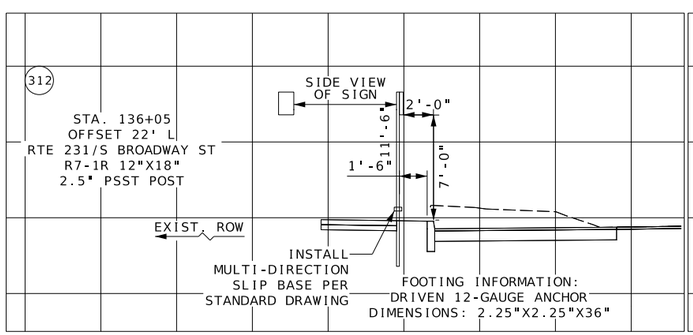


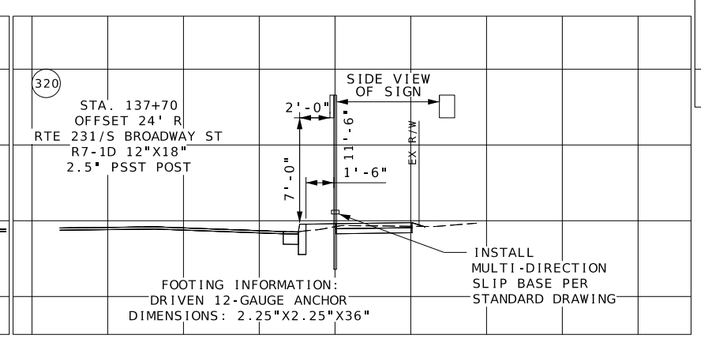












SIGN CROSS SECTION
SHEET 19 OF 25

NOTES:
1. SIGN LOCATIONS MAY BE MODIFIED IN THE FIELD TO PROVIDE MIN. HORIZONTAL CLEARANCES, AVOID EXISTING SIGNS AND UNDERGROUND FACILITIES.
2. ALL SIGNS SHALL HAVE A MINIMUM FOOTING DEPTH OF 36" UNLESS NOTED OTHERWISE.

SIGNING SHEETS
SHEET 62 OF 68

LAYOUT	NS	01/2025
DRAWN	SMC	01/2025
REVIEWED	DJK	01/2025

STATE OF MISSOURI
DENNIS J. KOSCIELSKI
NUMBER PE-2005000712
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED 7/25/2025
ROUTE 231 | STATE MO
DISTRICT SL | SHEET NO. 411
COUNTY ST. LOUIS
JOB NO. J6S3631
CONTRACT ID.
PROJECT NO.
BRIDGE NO.

DESCRIPTION | DATE

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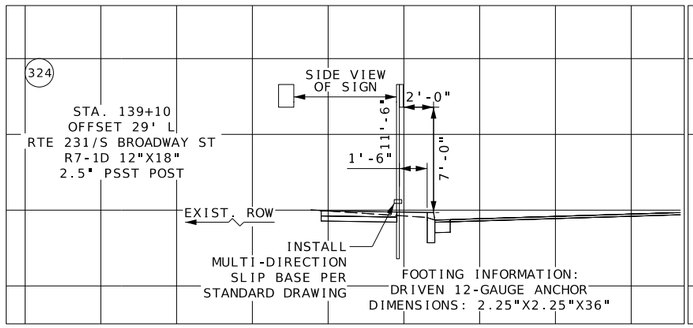
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105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

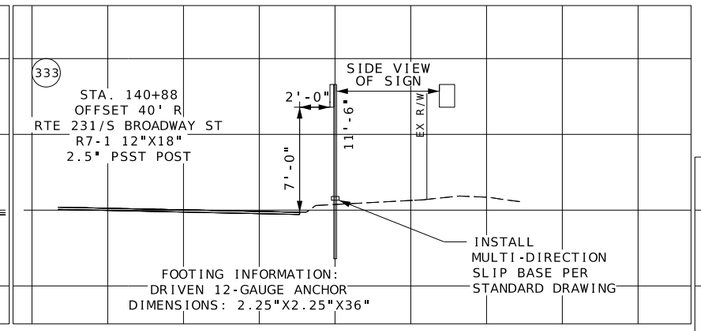
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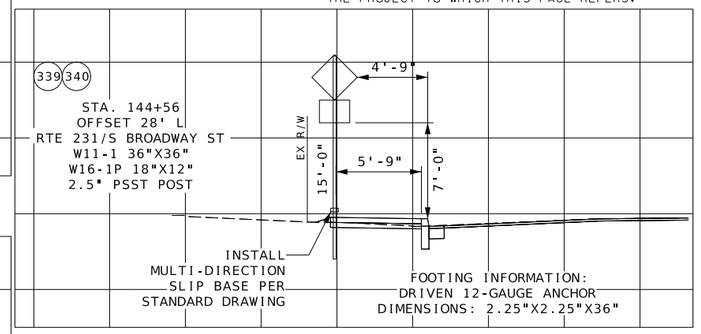
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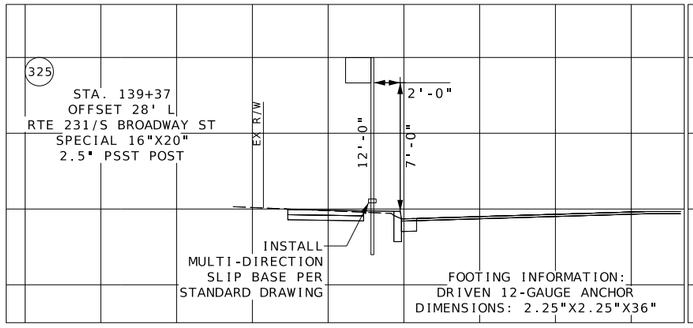
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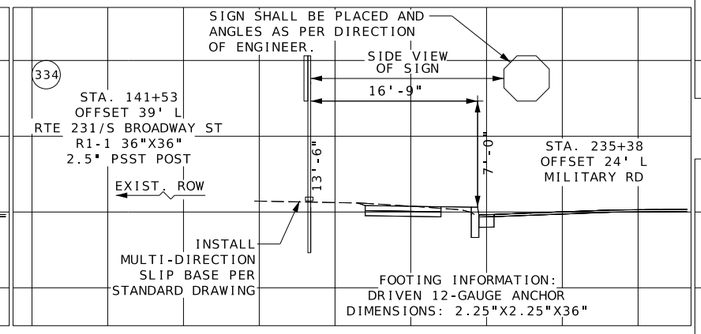
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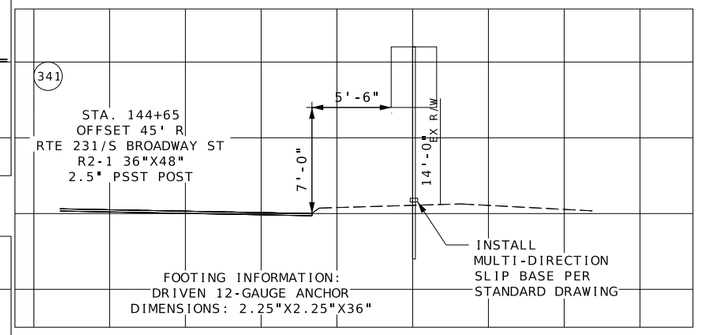


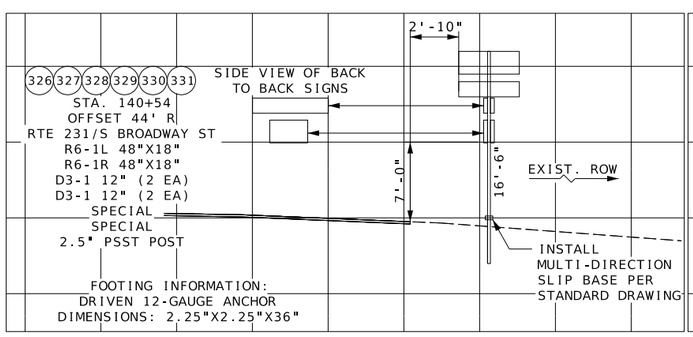


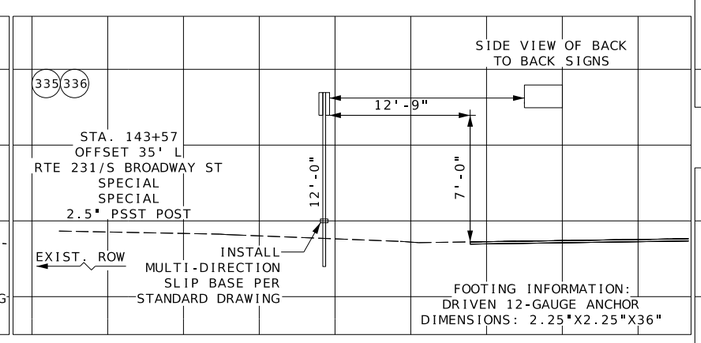


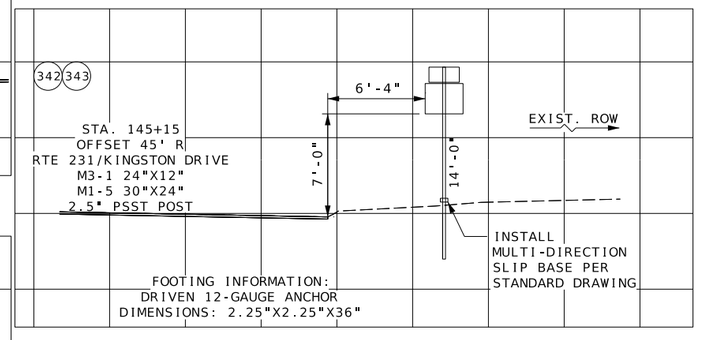


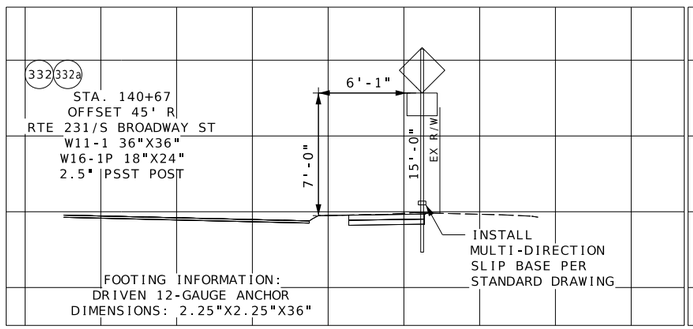


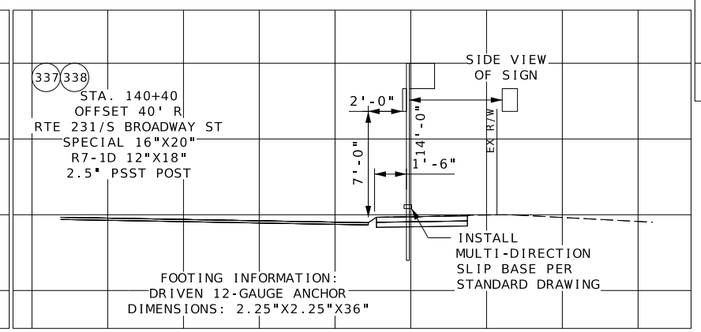












SIGN CROSS SECTION
SHEET 20 OF 25

NOTES:
1. SIGN LOCATIONS MAY BE MODIFIED IN THE FIELD TO PROVIDE MIN. HORIZONTAL CLEARANCES, AVOID EXISTING SIGNS AND UNDERGROUND FACILITIES.
2. ALL SIGNS SHALL HAVE A MINIMUM FOOTING DEPTH OF 36" UNLESS NOTED OTHERWISE.

SIGNING SHEETS
SHEET 63 OF 68

LAYOUT	NS	01/2025
DRAWN	SMC	01/2025
REVIEWED	DJK	01/2025

STATE OF MISSOURI
DENNIS J. KOSCIELSKI
NUMBER PE-2005000712
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED
7/25/2025

ROUTE	STATE
231	MO
DISTRICT	SHEET NO.
SL	412

COUNTY
ST. LOUIS

JOB NO.
J6S3631

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION	DATE

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MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

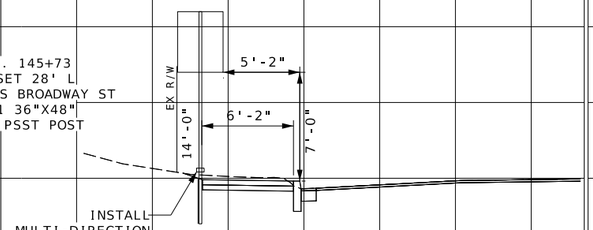
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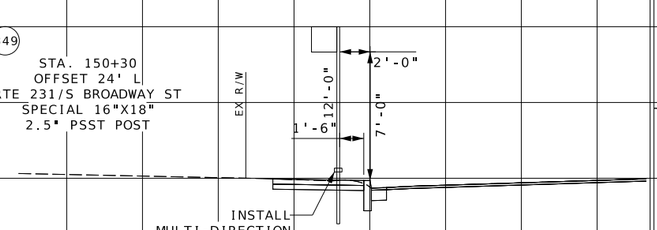
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STA. 145+73
OFFSET 28' L
RTE 231/S BROADWAY ST
R2-1 36"X48"
2.5" PSST POST



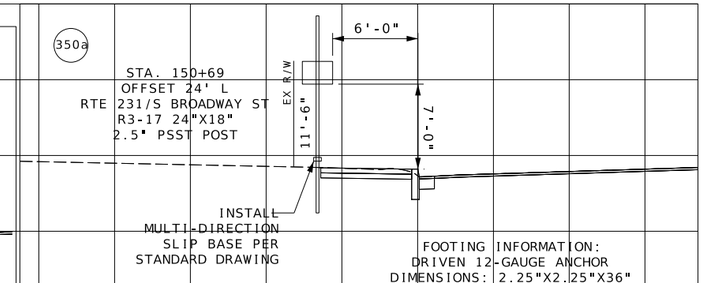
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STA. 150+30
OFFSET 24' L
RTE 231/S BROADWAY ST
SPECIAL 16"X18"
2.5" PSST POST



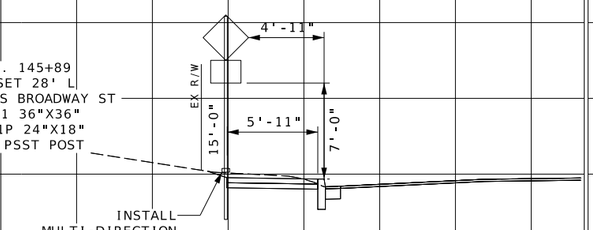
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STA. 150+69
OFFSET 24' L
RTE 231/S BROADWAY ST
R3-17 24"X18"
2.5" PSST POST



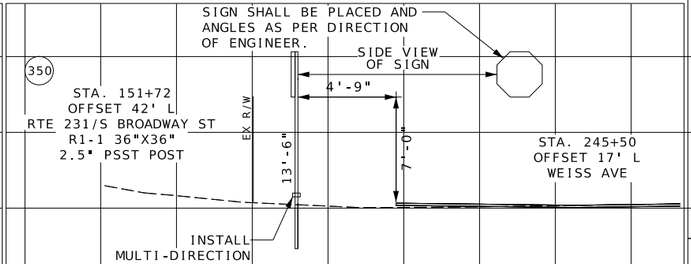
345 346

STA. 145+89
OFFSET 28' L
RTE 231/S BROADWAY ST
W11-1 36"X36"
W16-1P 24"X18"
2.5" PSST POST



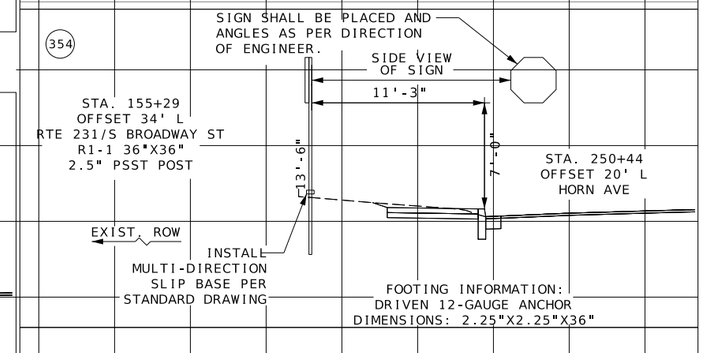
350

STA. 151+72
OFFSET 42' L
RTE 231/S BROADWAY ST
R1-1 36"X36"
2.5" PSST POST



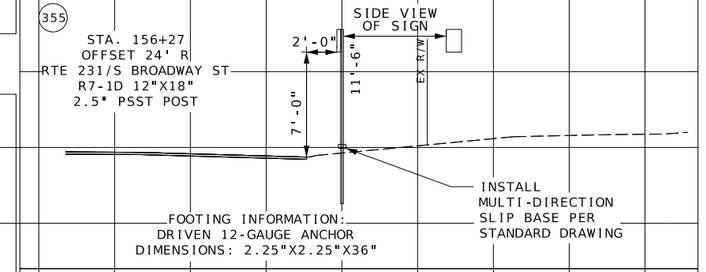
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STA. 155+29
OFFSET 34' L
RTE 231/S BROADWAY ST
R1-1 36"X36"
2.5" PSST POST



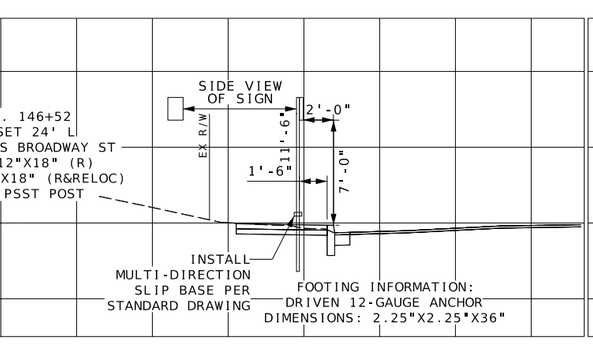
355

STA. 156+27
OFFSET 24' R
RTE 231/S BROADWAY ST
R7-1D 12"X18"
2.5" PSST POST



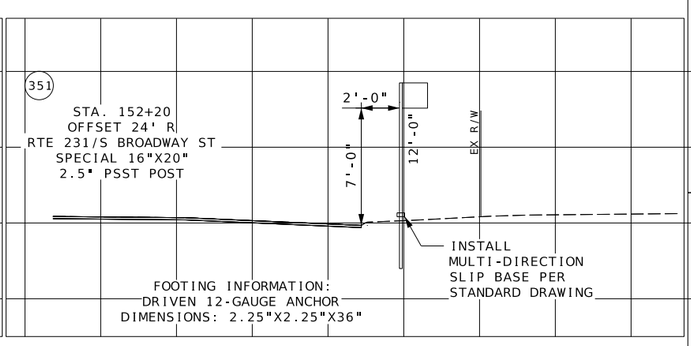
347

STA. 146+52
OFFSET 24' L
RTE 231/S BROADWAY ST
R7-1 12"X18" (R)
R7-1L 12"X18" (R&RELOC)
2.5" PSST POST



351

STA. 152+20
OFFSET 24' R
RTE 231/S BROADWAY ST
SPECIAL 16"X20"
2.5" PSST POST

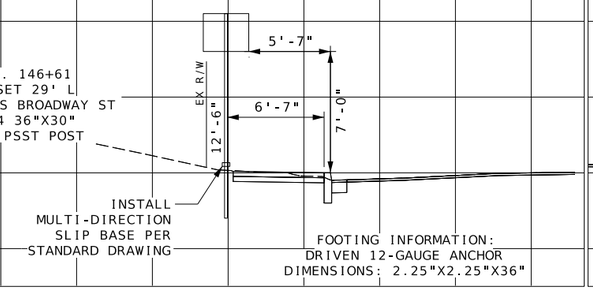


356

STA. 159+43
OFFSET 24' R
RTE 231/S BROADWAY ST
R7-1D 12"X18"
2.5" PSST POST

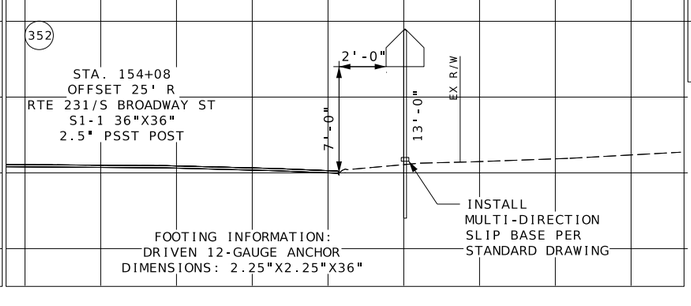
348

STA. 146+61
OFFSET 29' L
RTE 231/S BROADWAY ST
R4-4 36"X30"
2.5" PSST POST



352

STA. 154+08
OFFSET 25' R
RTE 231/S BROADWAY ST
S1-1 36"X36"
2.5" PSST POST



NOTES:
1. SIGN LOCATIONS MAY BE MODIFIED IN THE FIELD TO PROVIDE MIN. HORIZONTAL CLEARANCES, AVOID EXISTING SIGNS AND UNDERGROUND FACILITIES.
2. ALL SIGNS SHALL HAVE A MINIMUM FOOTING DEPTH OF 36" UNLESS NOTED OTHERWISE.

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SIGN CROSS SECTION
SHEET 21 OF 25

SIGNING SHEETS
SHEET 64 OF 68

LAYOUT	NS	01/2025
DRAWN	SMC	01/2025
REVIEWED	DJK	01/2025

STATE OF MISSOURI
DENNIS J KOSCIELSKI
NUMBER PE-2005000712
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED
7/25/2025

ROUTE	STATE
231	MO
DISTRICT	SHEET NO.
SL	413

COUNTY
ST. LOUIS

JOB NO.
J6S3631

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION	DATE

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

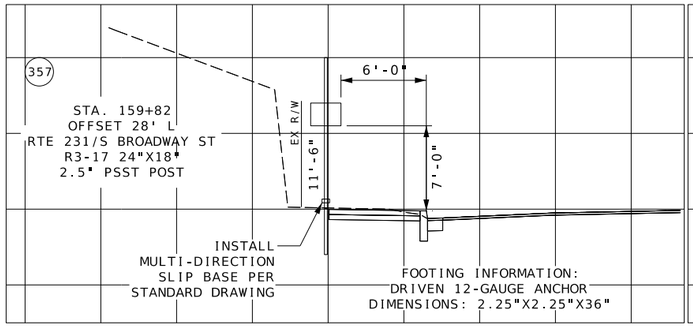
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

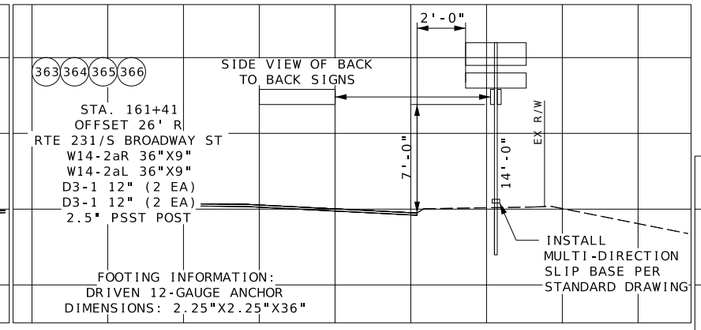
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

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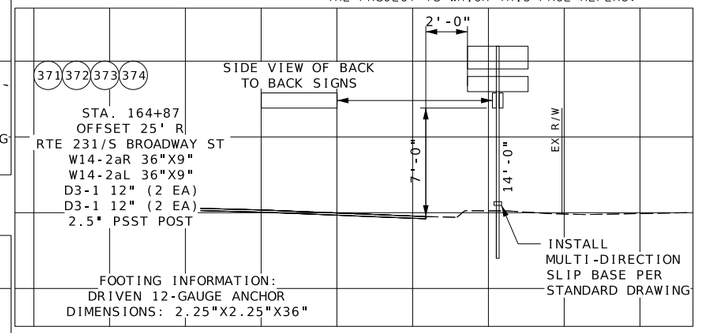
HANSON
Hanson Professional Services Inc.
600 Washington Ave., Suite 950
St. Louis, Missouri 63101
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314.770.0467

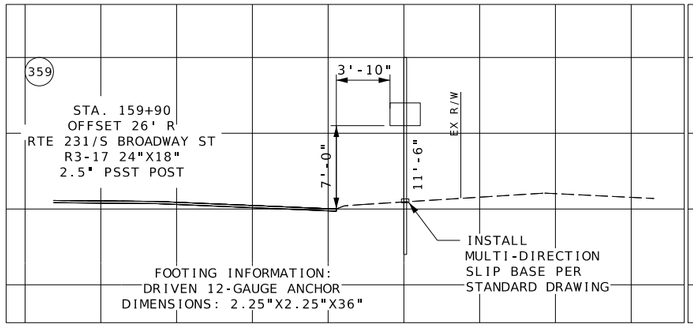
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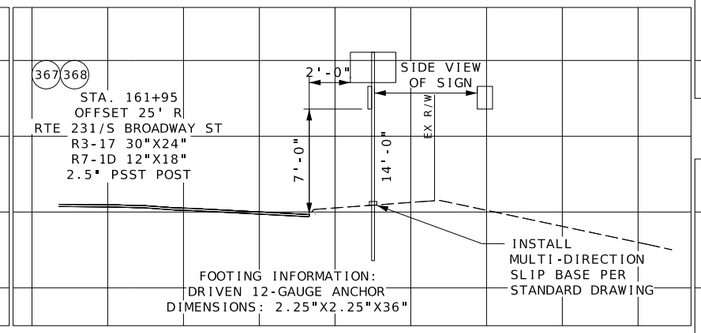


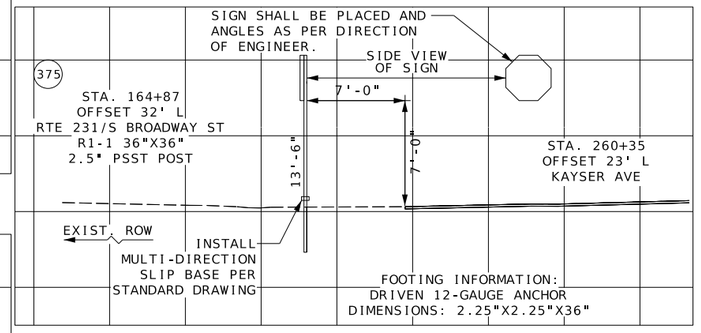


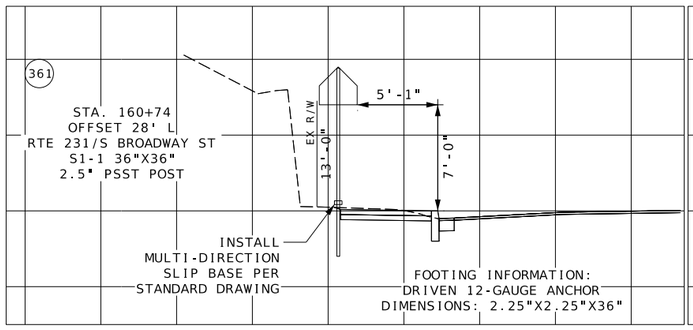
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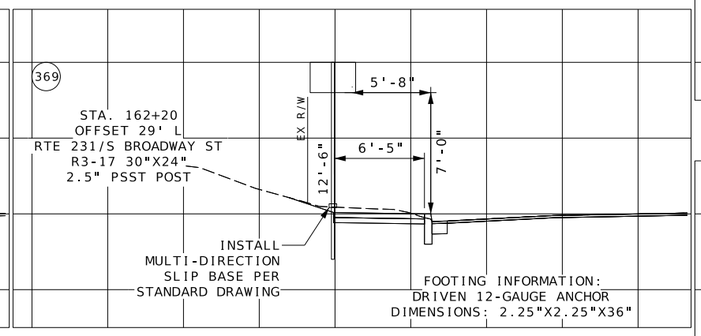


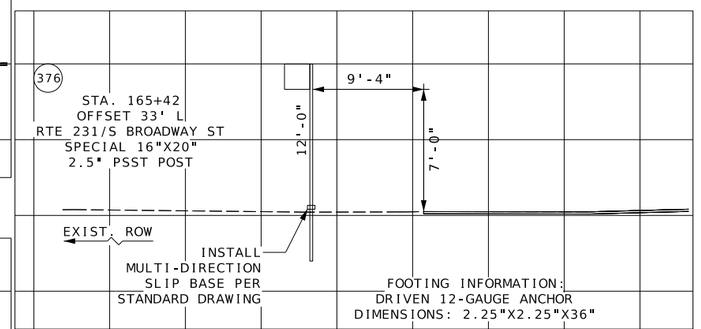


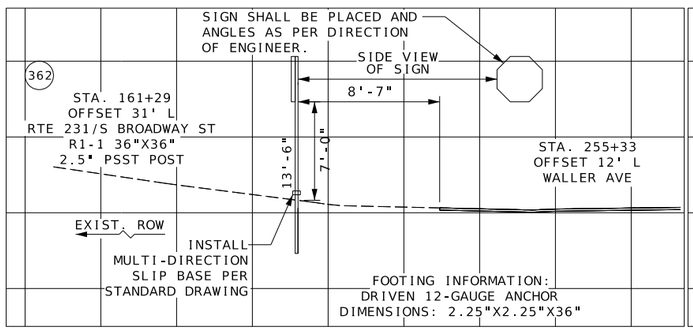


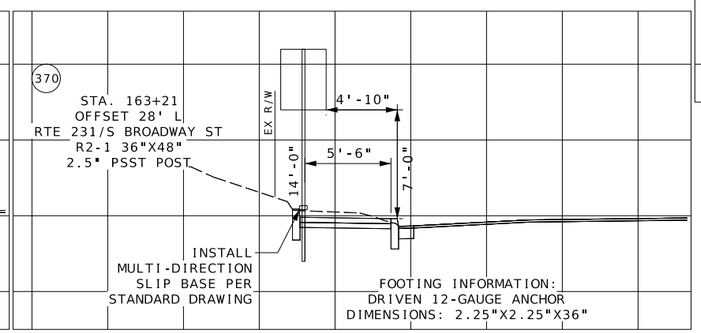












SIGN CROSS SECTION
SHEET 22 OF 25

NOTES:
1. SIGN LOCATIONS MAY BE MODIFIED IN THE FIELD TO PROVIDE MIN. HORIZONTAL CLEARANCES, AVOID EXISTING SIGNS AND UNDERGROUND FACILITIES.
2. ALL SIGNS SHALL HAVE A MINIMUM FOOTING DEPTH OF 36" UNLESS NOTED OTHERWISE.

SIGNING SHEETS
SHEET 65 OF 68

LAYOUT	NS	01/2025
DRAWN	SMC	01/2025
REVIEWED	DJK	01/2025

STATE OF MISSOURI
DENNIS J. KOSCIELSKI
NUMBER PE-2005000712
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED: 7/25/2025
ROUTE: 231 | STATE: MO
DISTRICT: SL | SHEET NO.: 414
COUNTY: ST. LOUIS
JOB NO.: J6S3631
CONTRACT ID.:
PROJECT NO.:
BRIDGE NO.:

DESCRIPTION	DATE

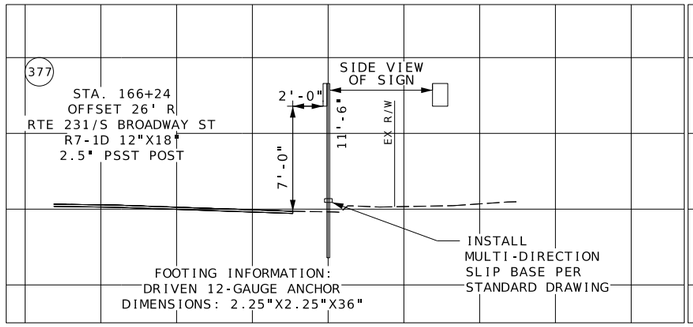
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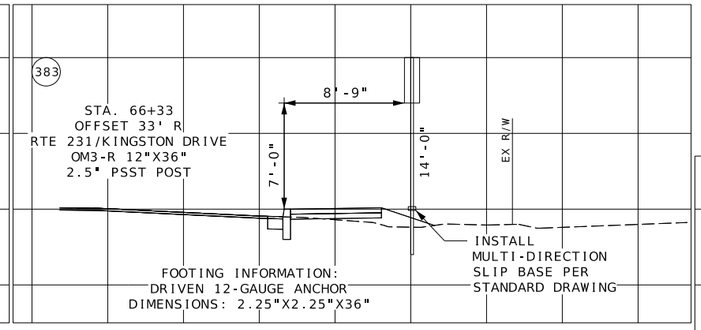
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105 WEST CAPITOL
JEFFERSON CITY, MO 65102
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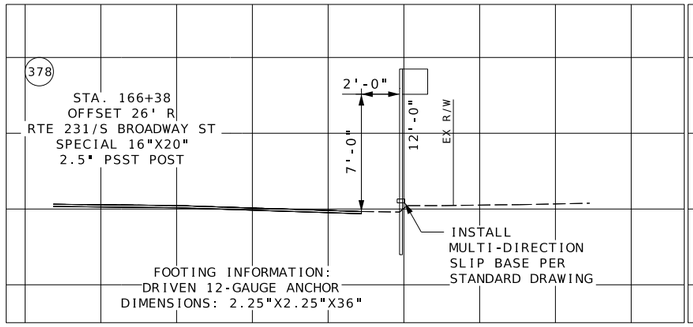
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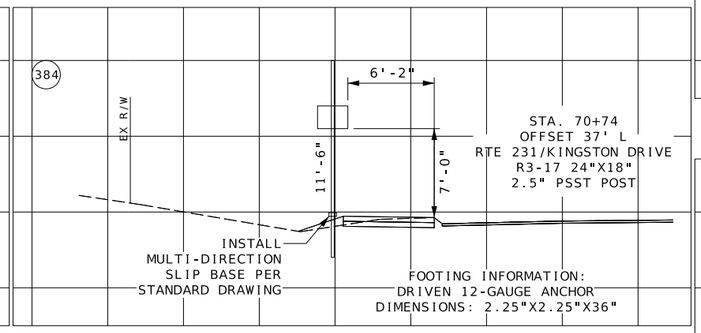
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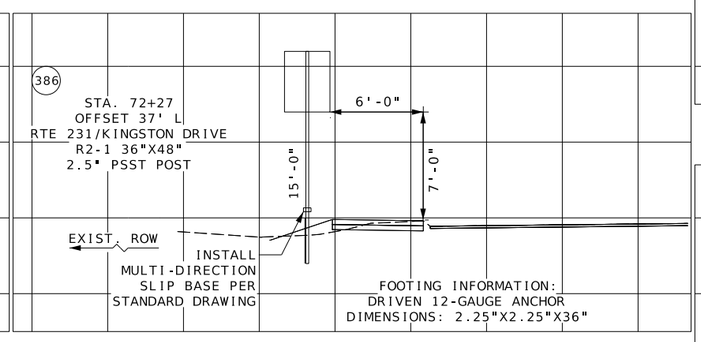
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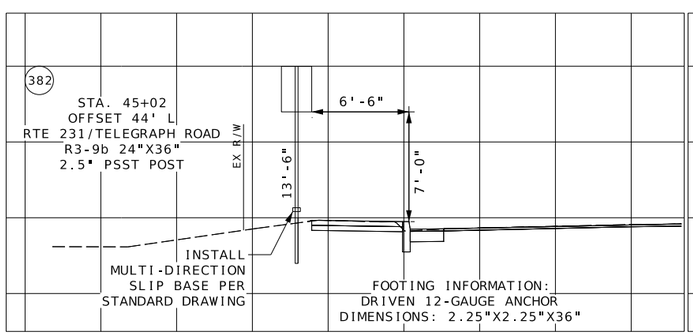


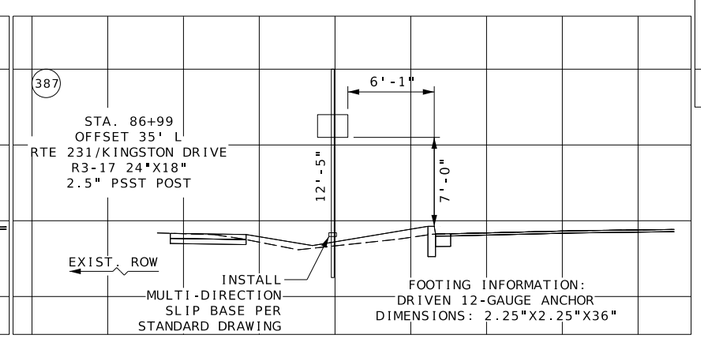


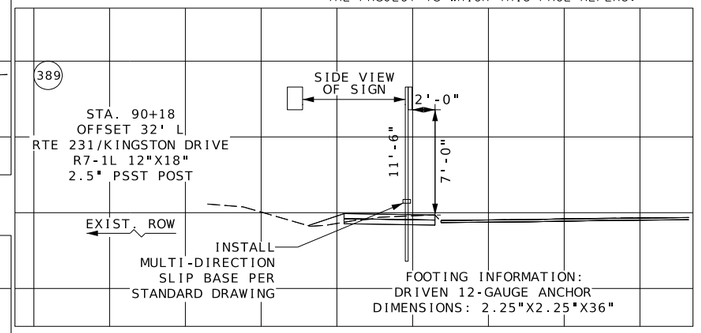


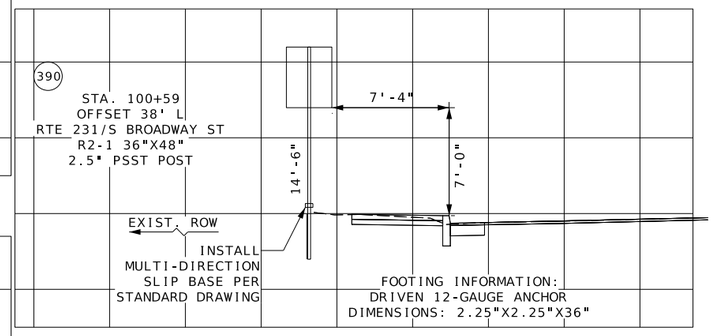


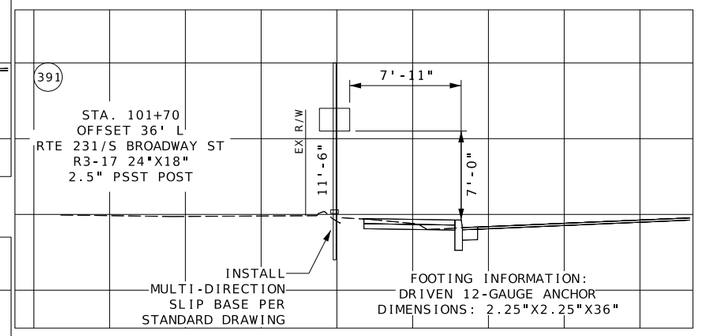












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SIGN CROSS SECTION
SHEET 23 OF 25

NOTES:
1. SIGN LOCATIONS MAY BE MODIFIED IN THE FIELD TO PROVIDE MIN. HORIZONTAL CLEARANCES, AVOID EXISTING SIGNS AND UNDERGROUND FACILITIES.
2. ALL SIGNS SHALL HAVE A MINIMUM FOOTING DEPTH OF 36" UNLESS NOTED OTHERWISE.

SIGNING SHEETS
SHEET 66 OF 68

LAYOUT	NS	01/2025
DRAWN	SMC	01/2025
REVIEWED	DJK	01/2025

STATE OF MISSOURI
DENNIS J. KOSCIELSKI
NUMBER PE-2005000712
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED: 7/25/2025
ROUTE: 231 | STATE: MO
DISTRICT: SL | SHEET NO.: 415
COUNTY: ST. LOUIS
JOB NO.: J6S3631
CONTRACT ID.:
PROJECT NO.:
BRIDGE NO.:

DESCRIPTION	DATE

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MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
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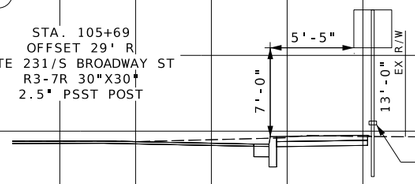
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393

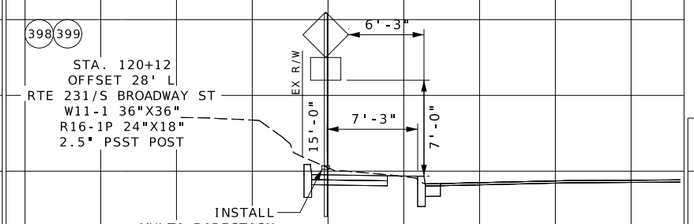
STA. 105+69
OFFSET 29' R
RTE 231/S BROADWAY ST
R3-7R 30"X30"
2.5" PSST POST



FOOTING INFORMATION:
DRIVEN 12-GAUGE ANCHOR
DIMENSIONS: 2.25"X2.25"X36"

398 399

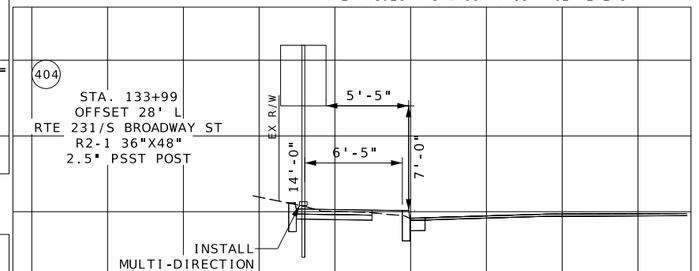
STA. 120+12
OFFSET 28' L
RTE 231/S BROADWAY ST
W11-1 36"X36"
R16-1P 24"X18"
2.5" PSST POST



FOOTING INFORMATION:
DRIVEN 12-GAUGE ANCHOR
DIMENSIONS: 2.25"X2.25"X36"

404

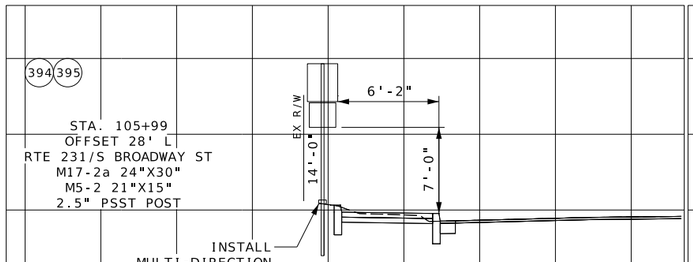
STA. 133+99
OFFSET 28' L
RTE 231/S BROADWAY ST
R2-1 36"X48"
2.5" PSST POST



FOOTING INFORMATION:
DRIVEN 12-GAUGE ANCHOR
DIMENSIONS: 2.25"X2.25"X36"

394 395

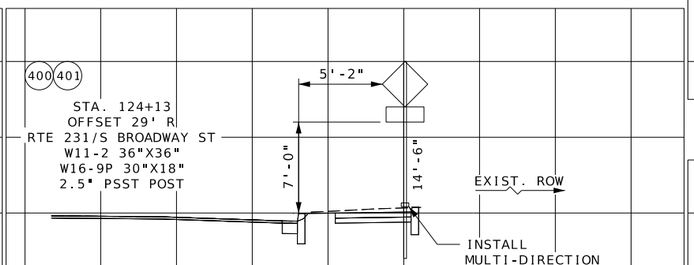
STA. 105+99
OFFSET 28' L
RTE 231/S BROADWAY ST
M17-2a 24"X30"
M5-2 21"X15"
2.5" PSST POST



FOOTING INFORMATION:
DRIVEN 12-GAUGE ANCHOR
DIMENSIONS: 2.25"X2.25"X36"

400 401

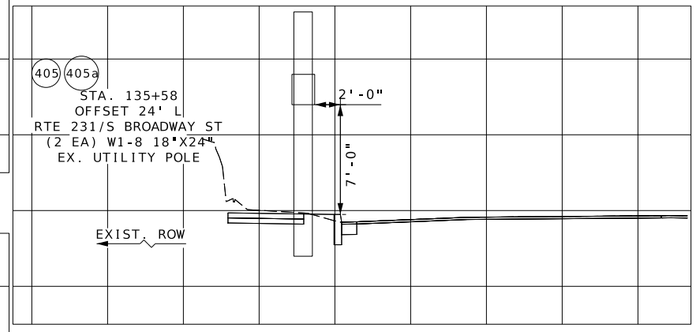
STA. 124+13
OFFSET 29' R
RTE 231/S BROADWAY ST
W11-2 36"X36"
W16-9P 30"X18"
2.5" PSST POST



FOOTING INFORMATION:
DRIVEN 12-GAUGE ANCHOR
DIMENSIONS: 2.25"X2.25"X36"

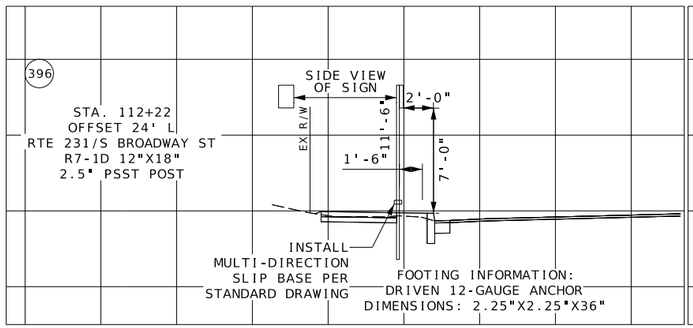
405 405a

STA. 135+58
OFFSET 24' L
RTE 231/S BROADWAY ST
(2 EA) W1-8 18"X24"
EX. UTILITY POLE



396

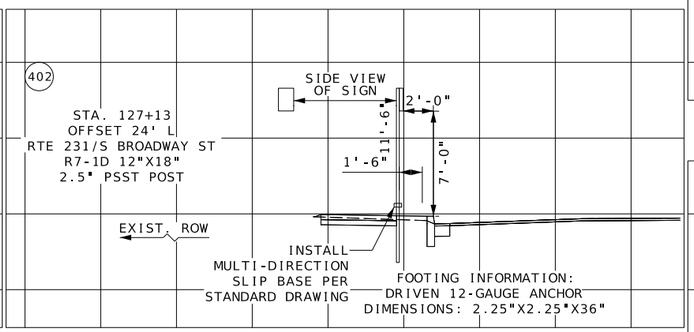
STA. 112+22
OFFSET 24' L
RTE 231/S BROADWAY ST
R7-1D 12"X18"
2.5" PSST POST



FOOTING INFORMATION:
DRIVEN 12-GAUGE ANCHOR
DIMENSIONS: 2.25"X2.25"X36"

402

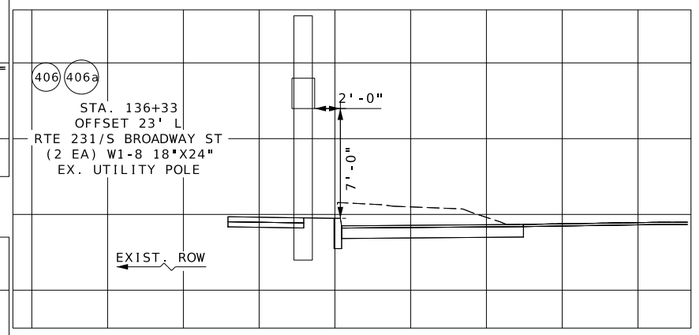
STA. 127+13
OFFSET 24' L
RTE 231/S BROADWAY ST
R7-1D 12"X18"
2.5" PSST POST



FOOTING INFORMATION:
DRIVEN 12-GAUGE ANCHOR
DIMENSIONS: 2.25"X2.25"X36"

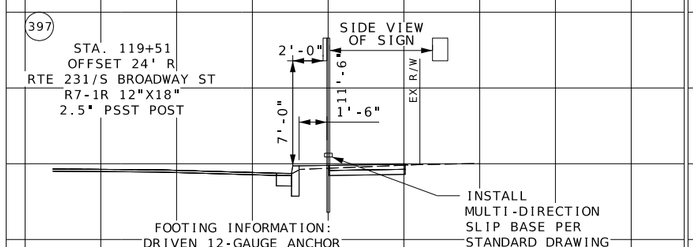
406 406a

STA. 136+33
OFFSET 23' L
RTE 231/S BROADWAY ST
(2 EA) W1-8 18"X24"
EX. UTILITY POLE



397

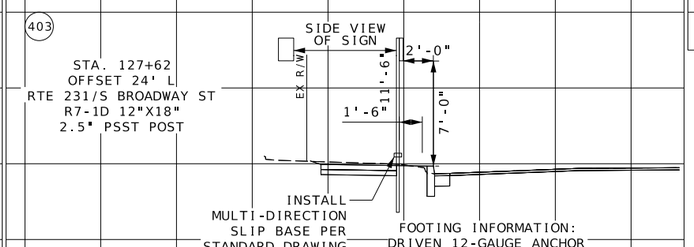
STA. 119+51
OFFSET 24' R
RTE 231/S BROADWAY ST
R7-1R 12"X18"
2.5" PSST POST



FOOTING INFORMATION:
DRIVEN 12-GAUGE ANCHOR
DIMENSIONS: 2.25"X2.25"X36"

403

STA. 127+62
OFFSET 24' L
RTE 231/S BROADWAY ST
R7-1D 12"X18"
2.5" PSST POST



FOOTING INFORMATION:
DRIVEN 12-GAUGE ANCHOR
DIMENSIONS: 2.25"X2.25"X36"

SIGN CROSS SECTION
SHEET 24 OF 25

NOTES:
1. SIGN LOCATIONS MAY BE MODIFIED IN THE FIELD TO PROVIDE MIN. HORIZONTAL CLEARANCES, AVOID EXISTING SIGNS AND UNDERGROUND FACILITIES.
2. ALL SIGNS SHALL HAVE A MINIMUM FOOTING DEPTH OF 36" UNLESS NOTED OTHERWISE.

SIGNING SHEETS
SHEET 67 OF 68

LAYOUT	NS	01/2025
DRAWN	SMC	01/2025
REVIEWED	DJK	01/2025

STATE OF MISSOURI
DENNIS J KOSCIELSKI
NUMBER PE-2005000712
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED: 7/25/2025

ROUTE	STATE
231	MO
DISTRICT	SHEET NO.
SL	416

COUNTY: ST. LOUIS
JOB NO.: J6S3631
CONTRACT ID.:
PROJECT NO.:
BRIDGE NO.:

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

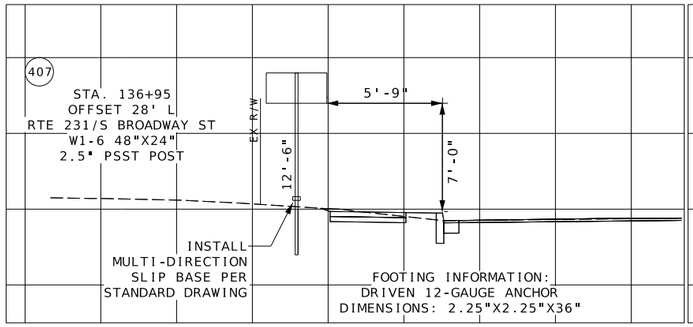
DESCRIPTION	DATE

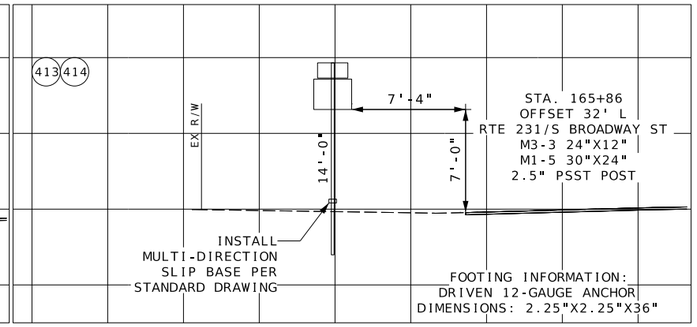
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
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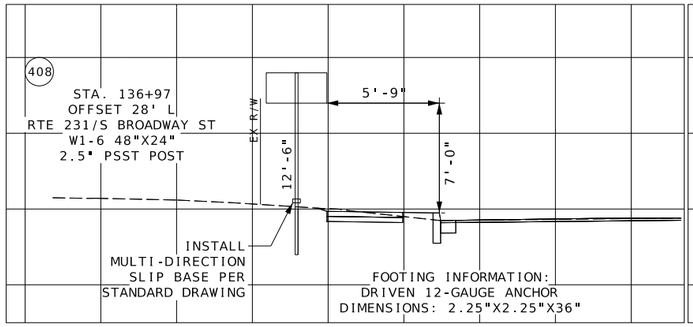
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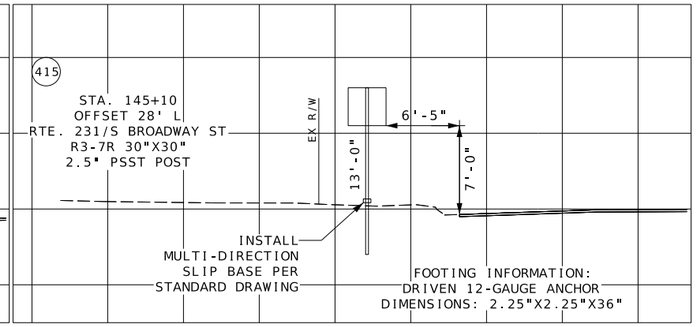
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Professional Engineer 001632
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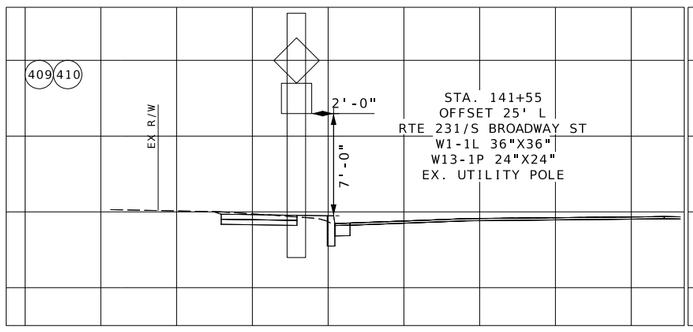
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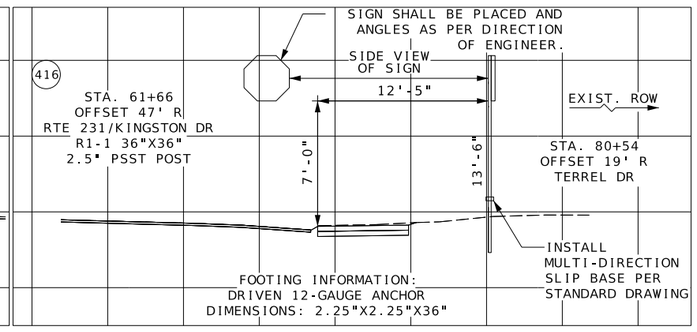


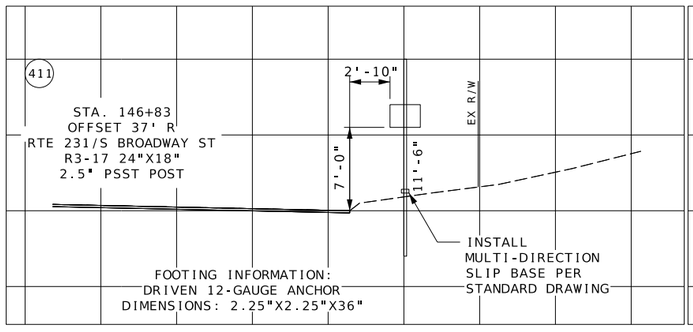


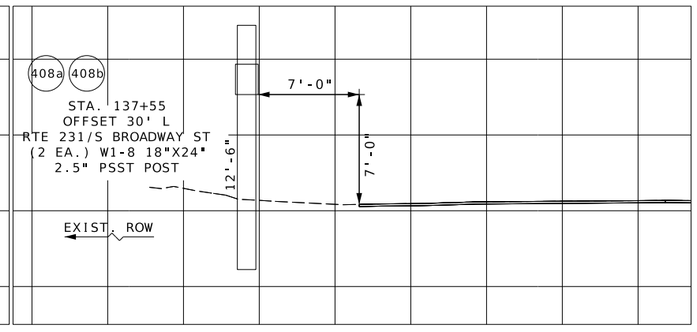












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SIGN CROSS SECTION
SHEET 25 OF 25

NOTES:
1. SIGN LOCATIONS MAY BE MODIFIED IN THE FIELD TO PROVIDE MIN. HORIZONTAL CLEARANCES, AVOID EXISTING SIGNS AND UNDERGROUND FACILITIES.
2. ALL SIGNS SHALL HAVE A MINIMUM FOOTING DEPTH OF 36" UNLESS NOTED OTHERWISE.

SIGNING SHEETS
SHEET 68 OF 68

LAYOUT	NS	01/2025
DRAWN	SMC	01/2025
REVIEWED	DJK	01/2025

STATE OF MISSOURI
DENNIS J. KOSCIELSKI
NUMBER PE-2005000712
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED 7/25/2025
ROUTE 231 | STATE MO
DISTRICT SL | SHEET NO. 417
COUNTY ST. LOUIS
JOB NO. J6S3631
CONTRACT ID.
PROJECT NO.
BRIDGE NO.

DESCRIPTION	DATE

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
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PAVEMENT MARKING LEGEND:

BIKE LANE
(INSIDE 4 IN. SOLID WHITE CLASS 1 PAVEMENT MARKING PAINT, TYPE P BEADS WITH PREFORMED THERMOPLASTIC PAVEMENT MARKING BIKE SYMBOL AND PREFORMED THERMOPLASTIC PAVEMENT MARKING STRAIGHT ARROW)

STRIPED ISLAND BETWEEN THRU AND TURN LANES
(PREFORMED THERMOPLASTIC PAVEMENT MARKING, 24 IN WHITE, AT 20' CENTERS WITH OUTSIDE 4 IN. WHITE CLASS 1 PAVEMENT MARKING PAINT,18-MIL, TYPE P BEADS)

MEDIAN STRIPED ISLAND
(PREFORMED THERMOPLASTIC PAVEMENT MARKING, 24 IN. YELLOW AT 45° SKEW AND 20' CENTERS WITH OUTSIDE DOUBLE 4 IN. YELLOW CLASS 1 PAVEMENT MARKING PAINT, 18-MIL, TYPE P BEADS)

ONLY — "ONLY" (WHITE THERMOPLASTIC)

YIELD BAR (WHITE THERMOPLASTIC)

BICYCLE SHARED LANE MARKING

SY = SOLID YELLOW LINE

DSY = DOUBLE SOLID YELLOW LINE

DY = DOTTED YELLOW LINE (2 FT. LINE, 6 FT. GAPS)

NO PARKING PAVEMENT MARKINGS
(PREFORMED THERMOPLASTIC PAVEMENT MARKING, 24 IN. WHITE AT 45° SKEW AND 20' CENTERS WITH INSIDE 4 IN. WHITE CLASS 1 PAVEMENT MARKING PAINT, 18-MIL, TYPE P BEADS)

PREFORMED THERMOPLASTIC PAVEMENT MARKING, RIGHT ARROW

PREFORMED THERMOPLASTIC PAVEMENT MARKING, LEFT ARROW

STOP BARS
(PREFORMED THERMOPLASTIC PAVEMENT MARKING, 24 IN, WHITE)

CONTINENTAL CROSSWALKS
(PREFORMED THERMOPLASTIC PAVEMENT, 30 IN. WHITE FOR USE AT SIGNALIZED INTERSECTIONS AND MID-BLOCK CROSSINGS)
NOTE: WIDTH OF CONTINENTAL CROSSWALKS ARE MARKED ON PLANS

SW = SOLID WHITE LINE

IW = INTERMITTENT WHITE LINE

DW = DOTTED WHITE LINE (2 FT. LINE, 6 FT. GAPS)

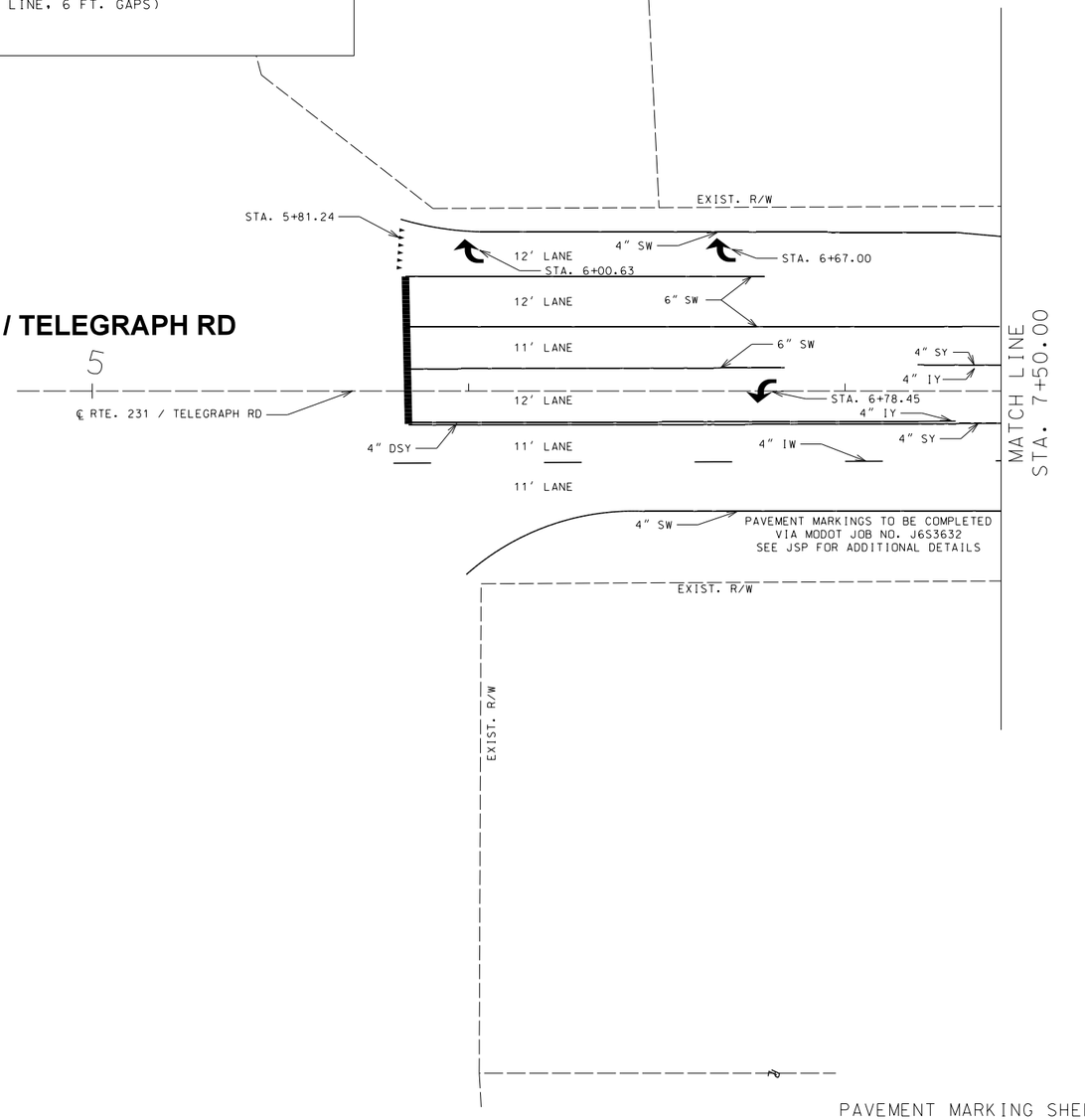
IY = INTERMITTENT YELLOW LINE

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SCALE
0 20 40 60

RTE. 231 / TELEGRAPH RD



PAVEMENT MARKING SHEETS
SHEET 1 OF 33

LAYOUT	NS	01/2025
DRAWN	SMC	01/2025
REVIEWED	DJK	01/2025

STATE OF MISSOURI
DENNIS J. KOSCIELSKI
NUMBER PE-2005000712
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED: 7/25/2025

ROUTE	STATE
231	MO
DISTRICT	SHEET NO.
SL	418

COUNTY: ST. LOUIS

JOB NO.: J6S3631

CONTRACT ID.:

PROJECT NO.:

BRIDGE NO.:

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

DESCRIPTION	DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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PAVEMENT MARKING LEGEND:

BIKE LANE
(INSIDE 4 IN. SOLID WHITE CLASS 1 PAVEMENT MARKING PAINT, TYPE P BEADS WITH PREFORMED THERMOPLASTIC PAVEMENT MARKING BIKE SYMBOL AND PREFORMED THERMOPLASTIC PAVEMENT MARKING STRAIGHT ARROW)

STRIPED ISLAND BETWEEN THRU AND TURN LANES
(PREFORMED THERMOPLASTIC PAVEMENT MARKING, 24 IN WHITE, AT 20' CENTERS WITH OUTSIDE 4 IN. WHITE CLASS 1 PAVEMENT MARKING PAINT,18-MIL, TYPE P BEADS)

MEDIAN STRIPED ISLAND
(PREFORMED THERMOPLASTIC PAVEMENT MARKING, 24 IN. YELLOW AT 45° SKEW AND 20' CENTERS WITH OUTSIDE DOUBLE 4 IN. YELLOW CLASS 1 PAVEMENT MARKING PAINT, 18-MIL, TYPE P BEADS)

ONLY — "ONLY" (WHITE THERMOPLASTIC)

YIELD BAR (WHITE THERMOPLASTIC)

BICYCLE SHARED LANE MARKING

NO PARKING PAVEMENT MARKINGS
(PREFORMED THERMOPLASTIC PAVEMENT MARKING, 24 IN. WHITE AT 45° SKEW AND 20' CENTERS WITH INSIDE 4 IN. WHITE CLASS 1 PAVEMENT MARKING PAINT, 18-MIL, TYPE P BEADS)

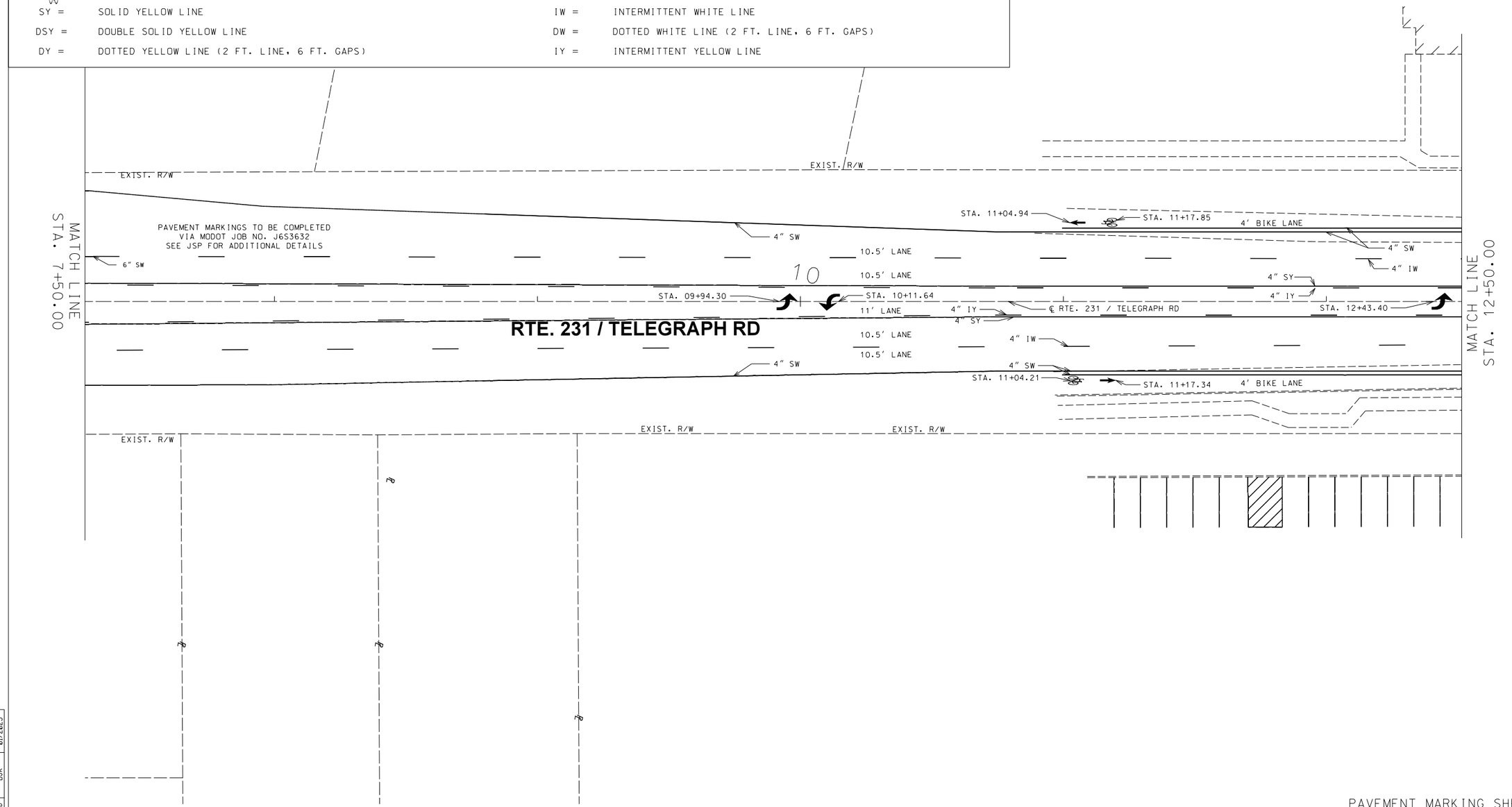
PREFORMED THERMOPLASTIC PAVEMENT MARKING, RIGHT ARROW

PREFORMED THERMOPLASTIC PAVEMENT MARKING, LEFT ARROW

STOP BARS
(PREFORMED THERMOPLASTIC PAVEMENT MARKING, 24 IN, WHITE)

CONTINENTAL CROSSWALKS
(PREFORMED THERMOPLASTIC PAVEMENT, 30 IN. WHITE FOR USE AT SIGNALIZED INTERSECTIONS AND MID-BLOCK CROSSINGS)
NOTE: WIDTH OF CONTINENTAL CROSSWALKS ARE MARKED ON PLANS

SY =	SOLID YELLOW LINE	SW =	SOLID WHITE LINE
DSY =	DOUBLE SOLID YELLOW LINE	IW =	INTERMITTENT WHITE LINE
DY =	DOTTED YELLOW LINE (2 FT. LINE, 6 FT. GAPS)	DW =	DOTTED WHITE LINE (2 FT. LINE, 6 FT. GAPS)
		IY =	INTERMITTENT YELLOW LINE



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SCALE
0 20 40 60

STATE OF MISSOURI
DENNIS J. KOSCIELSKI
NUMBER PE-2005000712
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED
7/25/2025

ROUTE	STATE
231	MO
DISTRICT	SHEET NO.
SL	419

COUNTY
ST. LOUIS

JOB NO.
J6S3631

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION	DATE

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

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LAYOUT	NS	01/2025
DRAWN	SMC	01/2025
REVIEWED	DJK	01/2025

PAVEMENT MARKING SHEETS
SHEET 2 OF 33

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PAVEMENT MARKING LEGEND:

BIKE LANE
(INSIDE 4 IN. SOLID WHITE CLASS 1 PAVEMENT MARKING PAINT, TYPE P BEADS WITH PREFORMED THERMOPLASTIC PAVEMENT MARKING BIKE SYMBOL AND PREFORMED THERMOPLASTIC PAVEMENT MARKING STRAIGHT ARROW)

STRIPED ISLAND BETWEEN THRU AND TURN LANES
(PREFORMED THERMOPLASTIC PAVEMENT MARKING, 24 IN WHITE, AT 20' CENTERS WITH OUTSIDE 4 IN. WHITE CLASS 1 PAVEMENT MARKING PAINT,18-MIL, TYPE P BEADS)

MEDIAN STRIPED ISLAND
(PREFORMED THERMOPLASTIC PAVEMENT MARKING, 24 IN. YELLOW AT 45° SKEW AND 20' CENTERS WITH OUTSIDE DOUBLE 4 IN. YELLOW CLASS 1 PAVEMENT MARKING PAINT, 18-MIL, TYPE P BEADS)

ONLY — "ONLY" (WHITE THERMOPLASTIC)

YIELD BAR (WHITE THERMOPLASTIC)

BICYCLE SHARED LANE MARKING

SY = SOLID YELLOW LINE

DSY = DOUBLE SOLID YELLOW LINE

DY = DOTTED YELLOW LINE (2 FT. LINE, 6 FT. GAPS)

NO PARKING PAVEMENT MARKINGS
(PREFORMED THERMOPLASTIC PAVEMENT MARKING, 24 IN. WHITE AT 45° SKEW AND 20' CENTERS WITH INSIDE 4 IN. WHITE CLASS 1 PAVEMENT MARKING PAINT, 18-MIL, TYPE P BEADS)

PREFORMED THERMOPLASTIC PAVEMENT MARKING, RIGHT ARROW

PREFORMED THERMOPLASTIC PAVEMENT MARKING, LEFT ARROW

STOP BARS
(PREFORMED THERMOPLASTIC PAVEMENT MARKING, 24 IN, WHITE)

CONTINENTAL CROSSWALKS
(PREFORMED THERMOPLASTIC PAVEMENT, 30 IN. WHITE FOR USE AT SIGNALIZED INTERSECTIONS AND MID-BLOCK CROSSINGS)
NOTE: WIDTH OF CONTINENTAL CROSSWALKS ARE MARKED ON PLANS

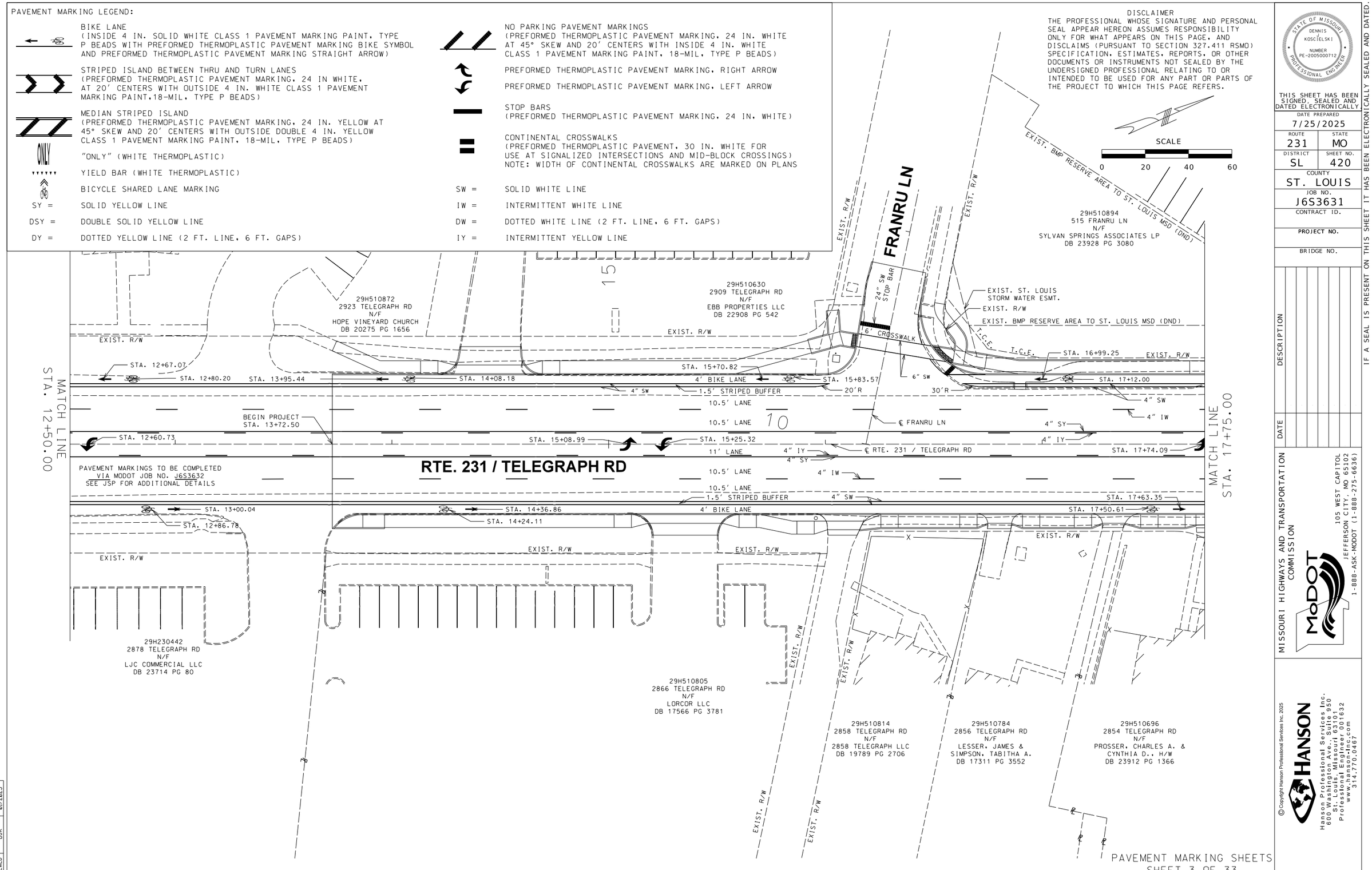
SW = SOLID WHITE LINE

IW = INTERMITTENT WHITE LINE

DW = DOTTED WHITE LINE (2 FT. LINE, 6 FT. GAPS)

IY = INTERMITTENT YELLOW LINE

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PAVEMENT MARKING SHEETS
SHEET 3 OF 33

LAYOUT	NS	01/2025
DRAWN	SMC	01/2025
REVIEWED	DJK	01/2025

STATE OF MISSOURI
DENNIS J. KOSCIELSKI
NUMBER PE-2005000712
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED
7/25/2025

ROUTE	STATE
231	MO
DISTRICT	SHEET NO.
SL	420

COUNTY
ST. LOUIS

JOB NO.
J6S3631

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION	DATE

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PAVEMENT MARKING LEGEND:

BIKE LANE
(INSIDE 4 IN. SOLID WHITE CLASS 1 PAVEMENT MARKING PAINT, TYPE P BEADS WITH PREFORMED THERMOPLASTIC PAVEMENT MARKING BIKE SYMBOL AND PREFORMED THERMOPLASTIC PAVEMENT MARKING STRAIGHT ARROW)

STRIPED ISLAND BETWEEN THRU AND TURN LANES
(PREFORMED THERMOPLASTIC PAVEMENT MARKING, 24 IN WHITE, AT 20' CENTERS WITH OUTSIDE 4 IN. WHITE CLASS 1 PAVEMENT MARKING PAINT,18-MIL, TYPE P BEADS)

MEDIAN STRIPED ISLAND
(PREFORMED THERMOPLASTIC PAVEMENT MARKING, 24 IN. YELLOW AT 45° SKEW AND 20' CENTERS WITH OUTSIDE DOUBLE 4 IN. YELLOW CLASS 1 PAVEMENT MARKING PAINT, 18-MIL, TYPE P BEADS)

ONLY — "ONLY" (WHITE THERMOPLASTIC)

YIELD BAR (WHITE THERMOPLASTIC)

BICYCLE SHARED LANE MARKING

SY = SOLID YELLOW LINE

DSY = DOUBLE SOLID YELLOW LINE

DY = DOTTED YELLOW LINE (2 FT. LINE, 6 FT. GAPS)

NO PARKING PAVEMENT MARKINGS
(PREFORMED THERMOPLASTIC PAVEMENT MARKING, 24 IN. WHITE AT 45° SKEW AND 20' CENTERS WITH INSIDE 4 IN. WHITE CLASS 1 PAVEMENT MARKING PAINT, 18-MIL, TYPE P BEADS)

PREFORMED THERMOPLASTIC PAVEMENT MARKING, RIGHT ARROW

PREFORMED THERMOPLASTIC PAVEMENT MARKING, LEFT ARROW

STOP BARS
(PREFORMED THERMOPLASTIC PAVEMENT MARKING, 24 IN, WHITE)

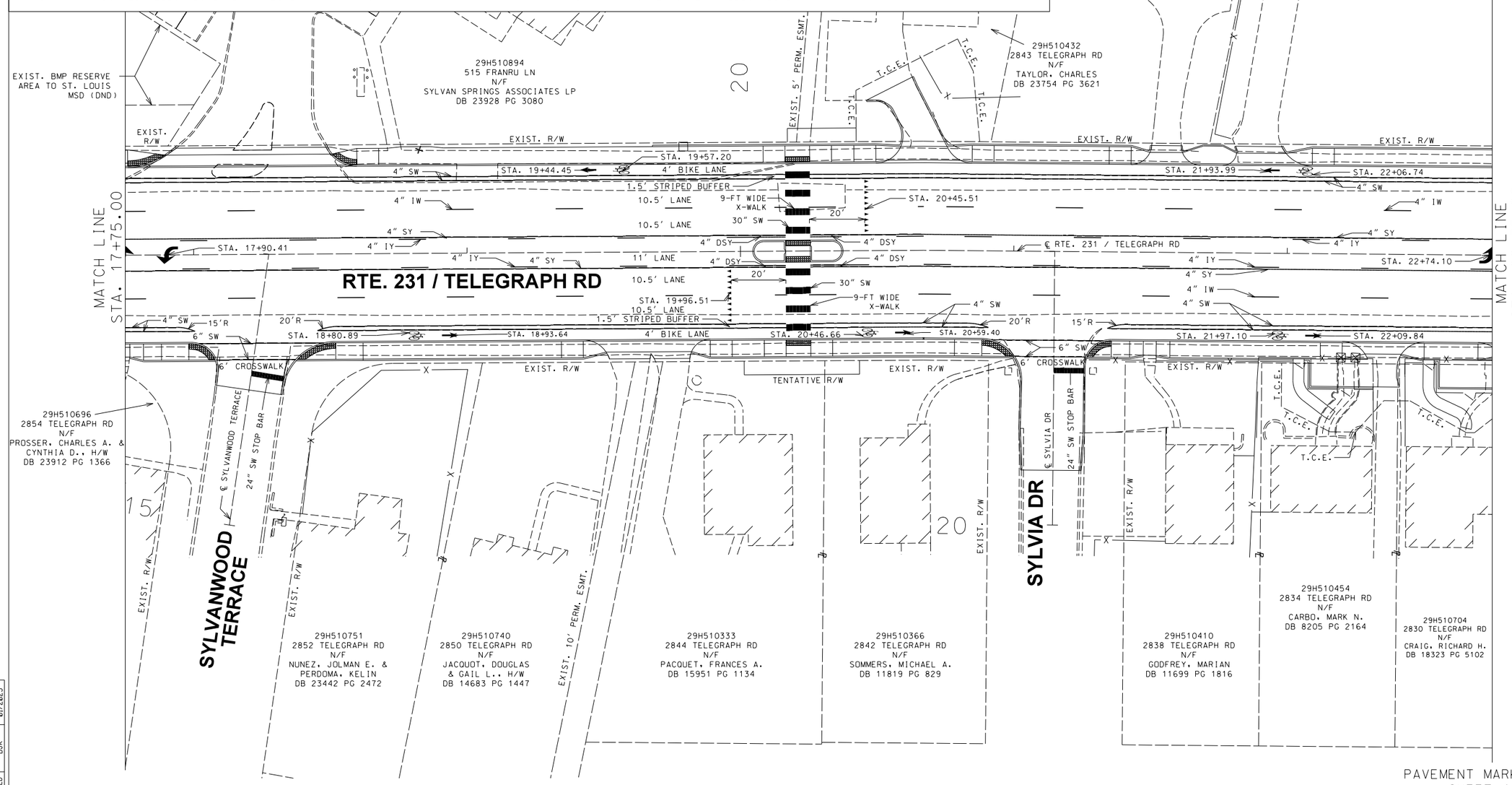
CONTINENTAL CROSSWALKS
(PREFORMED THERMOPLASTIC PAVEMENT, 30 IN. WHITE FOR USE AT SIGNALIZED INTERSECTIONS AND MID-BLOCK CROSSINGS)
NOTE: WIDTH OF CONTINENTAL CROSSWALKS ARE MARKED ON PLANS

SW = SOLID WHITE LINE

IW = INTERMITTENT WHITE LINE

DW = DOTTED WHITE LINE (2 FT. LINE, 6 FT. GAPS)

IY = INTERMITTENT YELLOW LINE



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STATE OF MISSOURI
DENNIS J. KOSCIELSKI
NUMBER PE-2005000712
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED: 7/25/2025
ROUTE: 231 | STATE: MO
DISTRICT: SL | SHEET NO.: 421
COUNTY: ST. LOUIS
JOB NO.: J6S3631
CONTRACT ID.:
PROJECT NO.:
BRIDGE NO.:

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

DESCRIPTION	DATE

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JEFFERSON CITY, MO 65102
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LAYOUT	NS	01/2025
DRAWN	SMC	01/2025
REVIEWED	DJK	01/2025

PAVEMENT MARKING SHEETS
SHEET 4 OF 33

I:\22jobs\22H0100\CAD\Road\Sheet\421_PM_04_J6S3631_I20.dgn

PAVEMENT MARKING LEGEND:

BIKE LANE
(INSIDE 4 IN. SOLID WHITE CLASS 1 PAVEMENT MARKING PAINT, TYPE P BEADS WITH PREFORMED THERMOPLASTIC PAVEMENT MARKING BIKE SYMBOL AND PREFORMED THERMOPLASTIC PAVEMENT MARKING STRAIGHT ARROW)

STRIPED ISLAND BETWEEN THRU AND TURN LANES
(PREFORMED THERMOPLASTIC PAVEMENT MARKING, 24 IN WHITE, AT 20' CENTERS WITH OUTSIDE 4 IN. WHITE CLASS 1 PAVEMENT MARKING PAINT,18-MIL, TYPE P BEADS)

MEDIAN STRIPED ISLAND
(PREFORMED THERMOPLASTIC PAVEMENT MARKING, 24 IN. YELLOW AT 45° SKEW AND 20' CENTERS WITH OUTSIDE DOUBLE 4 IN. YELLOW CLASS 1 PAVEMENT MARKING PAINT, 18-MIL, TYPE P BEADS)

ONLY "ONLY" (WHITE THERMOPLASTIC)

YIELD BAR (WHITE THERMOPLASTIC)

BICYCLE SHARED LANE MARKING

SY = SOLID YELLOW LINE

DSY = DOUBLE SOLID YELLOW LINE

DY = DOTTED YELLOW LINE (2 FT. LINE, 6 FT. GAPS)

NO PARKING PAVEMENT MARKINGS
(PREFORMED THERMOPLASTIC PAVEMENT MARKING, 24 IN. WHITE AT 45° SKEW AND 20' CENTERS WITH INSIDE 4 IN. WHITE CLASS 1 PAVEMENT MARKING PAINT, 18-MIL, TYPE P BEADS)

PREFORMED THERMOPLASTIC PAVEMENT MARKING, RIGHT ARROW

PREFORMED THERMOPLASTIC PAVEMENT MARKING, LEFT ARROW

STOP BARS
(PREFORMED THERMOPLASTIC PAVEMENT MARKING, 24 IN, WHITE)

CONTINENTAL CROSSWALKS
(PREFORMED THERMOPLASTIC PAVEMENT, 30 IN. WHITE FOR USE AT SIGNALIZED INTERSECTIONS AND MID-BLOCK CROSSINGS)
NOTE: WIDTH OF CONTINENTAL CROSSWALKS ARE MARKED ON PLANS

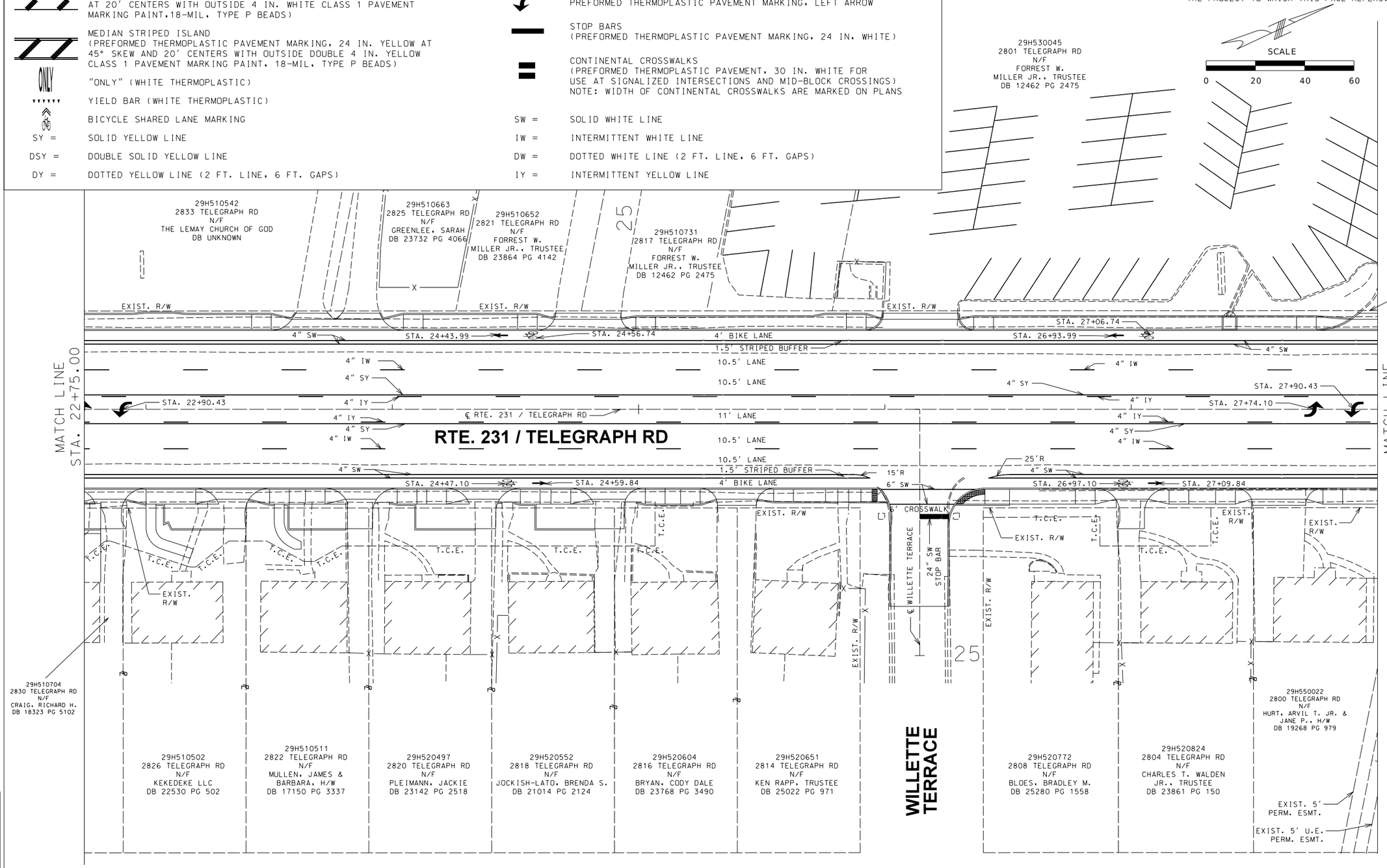
SW = SOLID WHITE LINE

IW = INTERMITTENT WHITE LINE

DW = DOTTED WHITE LINE (2 FT. LINE, 6 FT. GAPS)

IY = INTERMITTENT YELLOW LINE

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PAVEMENT MARKING SHEETS
SHEET 5 OF 33

LAYOUT	NS	01/2025
DRAWN	SMC	01/2025
REVIEWED	DJK	01/2025

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED 7/25/2025

ROUTE	STATE
231	MO
DISTRICT	SHEET NO.
SL	422

COUNTY ST. LOUIS

JOB NO. J6S3631

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

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DESCRIPTION | DATE

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PAVEMENT MARKING LEGEND:

BIKE LANE
(INSIDE 4 IN. SOLID WHITE CLASS 1 PAVEMENT MARKING PAINT, TYPE P BEADS WITH PREFORMED THERMOPLASTIC PAVEMENT MARKING BIKE SYMBOL AND PREFORMED THERMOPLASTIC PAVEMENT MARKING STRAIGHT ARROW)

STRIPED ISLAND BETWEEN THRU AND TURN LANES
(PREFORMED THERMOPLASTIC PAVEMENT MARKING, 24 IN WHITE, AT 20' CENTERS WITH OUTSIDE 4 IN. WHITE CLASS 1 PAVEMENT MARKING PAINT,18-MIL, TYPE P BEADS)

MEDIAN STRIPED ISLAND
(PREFORMED THERMOPLASTIC PAVEMENT MARKING, 24 IN. YELLOW AT 45° SKEW AND 20' CENTERS WITH OUTSIDE DOUBLE 4 IN. YELLOW CLASS 1 PAVEMENT MARKING PAINT, 18-MIL, TYPE P BEADS)

ONLY — "ONLY" (WHITE THERMOPLASTIC)

YIELD BAR (WHITE THERMOPLASTIC)

BICYCLE SHARED LANE MARKING

SY = SOLID YELLOW LINE

DSY = DOUBLE SOLID YELLOW LINE

DY = DOTTED YELLOW LINE (2 FT. LINE, 6 FT. GAPS)

NO PARKING PAVEMENT MARKINGS
(PREFORMED THERMOPLASTIC PAVEMENT MARKING, 24 IN. WHITE AT 45° SKEW AND 20' CENTERS WITH INSIDE 4 IN. WHITE CLASS 1 PAVEMENT MARKING PAINT, 18-MIL, TYPE P BEADS)

PREFORMED THERMOPLASTIC PAVEMENT MARKING, RIGHT ARROW

PREFORMED THERMOPLASTIC PAVEMENT MARKING, LEFT ARROW

STOP BARS
(PREFORMED THERMOPLASTIC PAVEMENT MARKING, 24 IN, WHITE)

CONTINENTAL CROSSWALKS
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NOTE: WIDTH OF CONTINENTAL CROSSWALKS ARE MARKED ON PLANS

SW = SOLID WHITE LINE

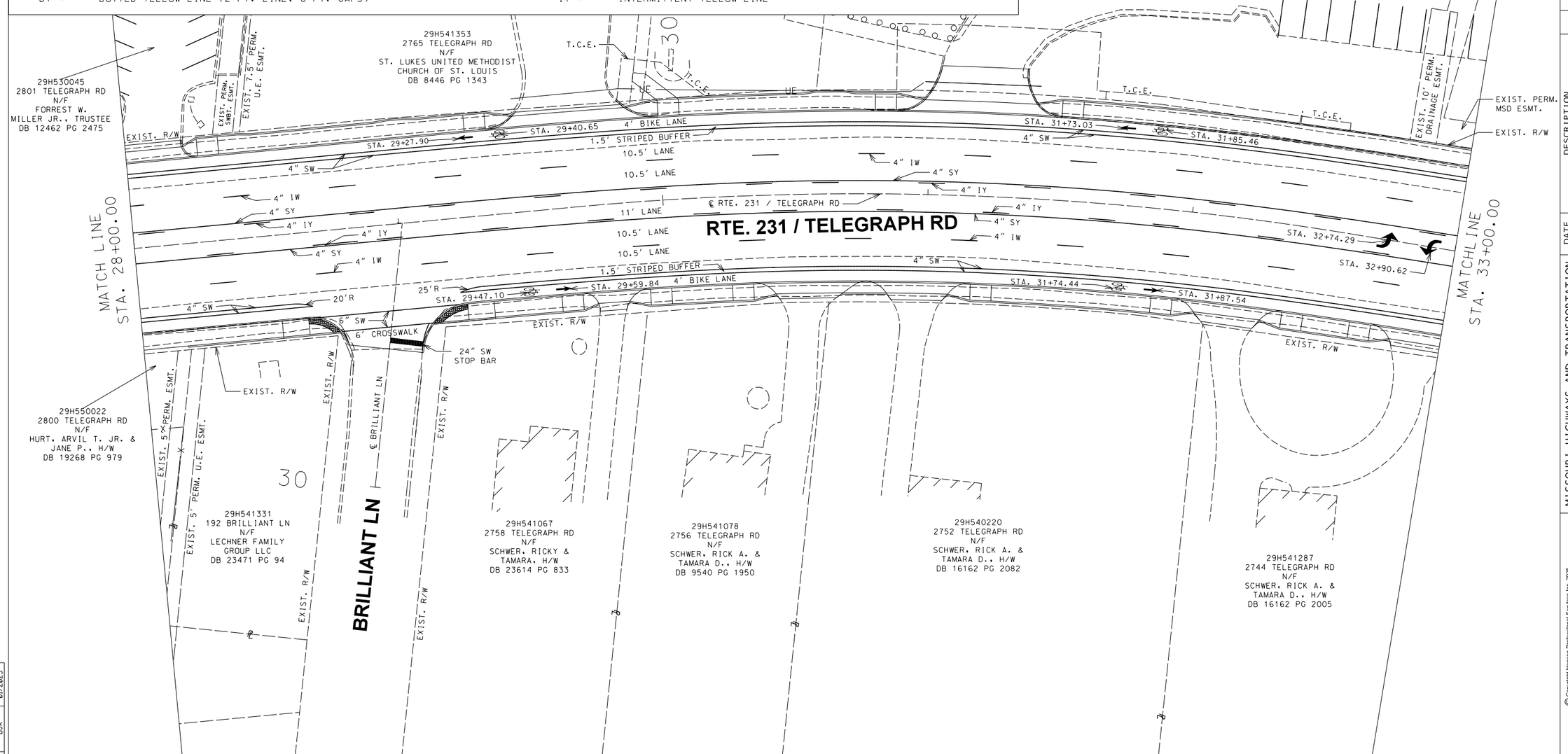
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SCALE
0 20 40 60



PAVEMENT MARKING SHEETS
SHEET 6 OF 33

LAYOUT	NS	01/2025
DRAWN	SMC	01/2025
REVIEWED	DJK	01/2025

STATE OF MISSOURI
DENNIS J. KOSCIELSKI
NUMBER PE-2005000712
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED: 7/25/2025
ROUTE: 231 | STATE: MO
DISTRICT: SL | SHEET NO.: 423
COUNTY: ST. LOUIS
JOB NO.: J6S3631
CONTRACT ID.:
PROJECT NO.:
BRIDGE NO.:

DESCRIPTION | DATE

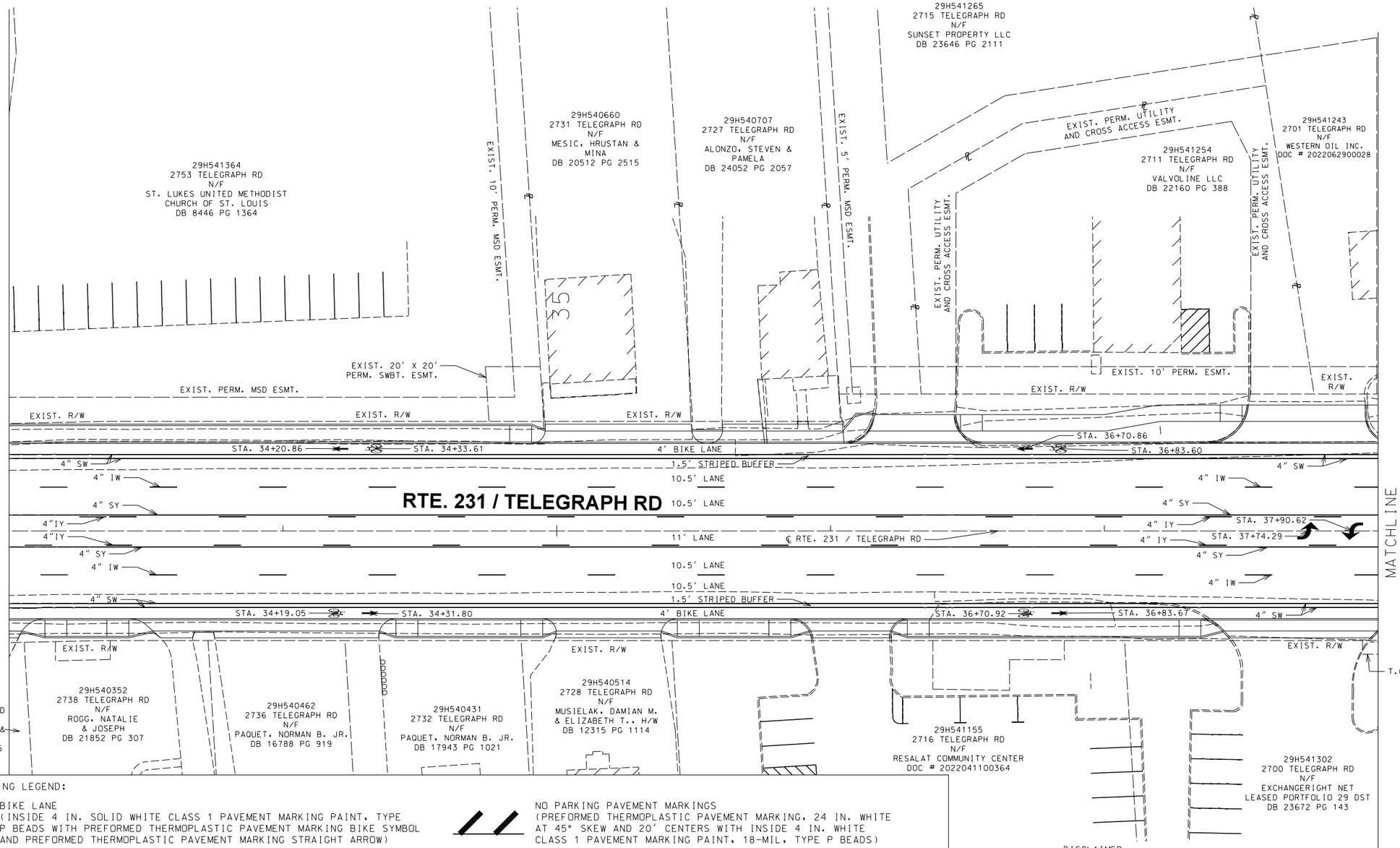
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PAVEMENT MARKING LEGEND:

BIKE LANE
(INSIDE 4 IN. SOLID WHITE CLASS 1 PAVEMENT MARKING PAINT, TYPE P BEADS WITH PREFORMED THERMOPLASTIC PAVEMENT MARKING BIKE SYMBOL AND PREFORMED THERMOPLASTIC PAVEMENT MARKING STRAIGHT ARROW)

STRIPED ISLAND BETWEEN THRU AND TURN LANES
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"ONLY" (WHITE THERMOPLASTIC)

YIELD BAR (WHITE THERMOPLASTIC)

BICYCLE SHARED LANE MARKING

SY = SOLID YELLOW LINE

DSY = DOUBLE SOLID YELLOW LINE

DY = DOTTED YELLOW LINE (2 FT. LINE, 6 FT. GAPS)

NO PARKING PAVEMENT MARKINGS
(PREFORMED THERMOPLASTIC PAVEMENT MARKING, 24 IN. WHITE AT 45° SKEW AND 20' CENTERS WITH INSIDE 4 IN. WHITE CLASS 1 PAVEMENT MARKING PAINT, 18-MIL, TYPE P BEADS)

PREFORMED THERMOPLASTIC PAVEMENT MARKING, RIGHT ARROW

PREFORMED THERMOPLASTIC PAVEMENT MARKING, LEFT ARROW

STOP BARS
(PREFORMED THERMOPLASTIC PAVEMENT MARKING, 24 IN. WHITE)

CONTINENTAL CROSSWALKS
(PREFORMED THERMOPLASTIC PAVEMENT, 30 IN. WHITE FOR USE AT SIGNALIZED INTERSECTIONS AND MID-BLOCK CROSSINGS)
NOTE: WIDTH OF CONTINENTAL CROSSWALKS ARE MARKED ON PLANS

SW = SOLID WHITE LINE

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DW = DOTTED WHITE LINE (2 FT. LINE, 6 FT. GAPS)

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LAYOUT	NS	01/2025
DRAWN	SMC	01/2025
REVIEWED	DJK	01/2025

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SCALE
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PAVEMENT MARKING SHEETS
SHEET 7 OF 33

STATE OF MISSOURI
DENNIS J. KOSCIELSKI
NUMBER PE-2005000712
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED
7/25/2025

ROUTE	STATE
231	MO
DISTRICT	SHEET NO.
SL	424

COUNTY
ST. LOUIS

JOB NO.
J6S3631

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION	DATE

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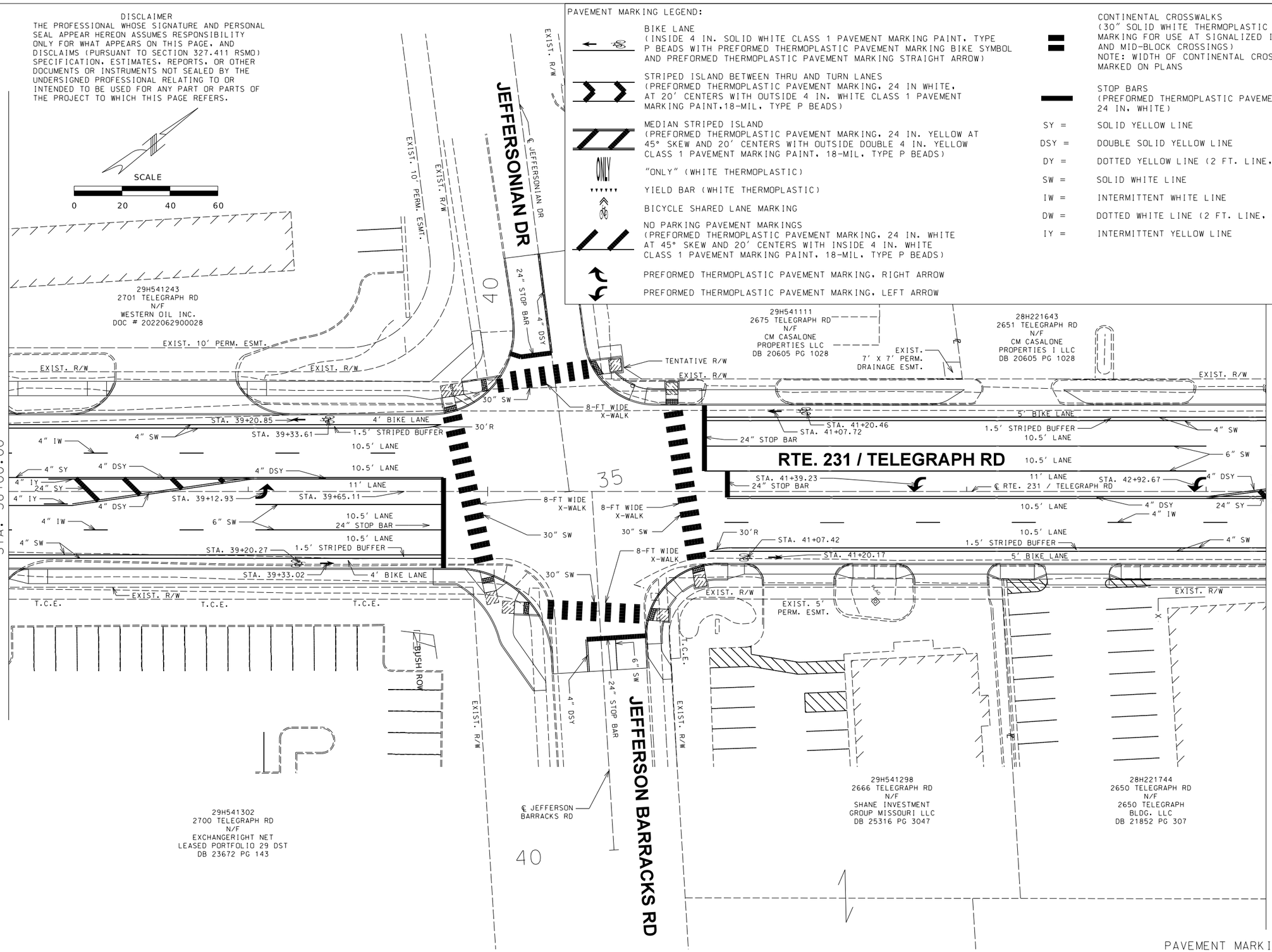
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SCALE
0 20 40 60

PAVEMENT MARKING LEGEND:

- BIKE LANE (INSIDE 4 IN. SOLID WHITE CLASS 1 PAVEMENT MARKING PAINT, TYPE P BEADS WITH PREFORMED THERMOPLASTIC PAVEMENT MARKING BIKE SYMBOL AND PREFORMED THERMOPLASTIC PAVEMENT MARKING STRAIGHT ARROW)
- STRIPED ISLAND BETWEEN THRU AND TURN LANES (PREFORMED THERMOPLASTIC PAVEMENT MARKING, 24 IN WHITE, AT 20' CENTERS WITH OUTSIDE 4 IN. WHITE CLASS 1 PAVEMENT MARKING PAINT,18-MIL, TYPE P BEADS)
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- "ONLY" (WHITE THERMOPLASTIC)
- YIELD BAR (WHITE THERMOPLASTIC)
- BICYCLE SHARED LANE MARKING
- NO PARKING PAVEMENT MARKINGS (PREFORMED THERMOPLASTIC PAVEMENT MARKING, 24 IN. WHITE AT 45° SKEW AND 20' CENTERS WITH INSIDE 4 IN. WHITE CLASS 1 PAVEMENT MARKING PAINT, 18-MIL, TYPE P BEADS)
- PREFORMED THERMOPLASTIC PAVEMENT MARKING, RIGHT ARROW
- PREFORMED THERMOPLASTIC PAVEMENT MARKING, LEFT ARROW
- CONTINENTAL CROSSWALKS (30" SOLID WHITE THERMOPLASTIC PAVEMENT MARKING FOR USE AT SIGNALIZED INTERSECTIONS AND MID-BLOCK CROSSINGS) NOTE: WIDTH OF CONTINENTAL CROSSWALKS ARE MARKED ON PLANS
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SY =	SOLID YELLOW LINE
DSY =	DOUBLE SOLID YELLOW LINE
DY =	DOTTED YELLOW LINE (2 FT. LINE, 6 FT. GAPS)
SW =	SOLID WHITE LINE
IW =	INTERMITTENT WHITE LINE
DW =	DOTTED WHITE LINE (2 FT. LINE, 6 FT. GAPS)
IY =	INTERMITTENT YELLOW LINE



PAVEMENT MARKING SHEETS
SHEET 8 OF 33

LAYOUT	NS	01/2025
DRAWN	SMC	01/2025
REVIEWED	DJK	01/2025

STATE OF MISSOURI
DENNIS J. KOSCIELSKI
NUMBER PE-2005000712
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED
7/25/2025

ROUTE	STATE
231	MO
DISTRICT	SHEET NO.
SL	425

COUNTY
ST. LOUIS

JOB NO.
J6S3631

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

DESCRIPTION	DATE

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JEFFERSON CITY, MO 65102
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PAVEMENT MARKING LEGEND:

BIKE LANE
(INSIDE 4 IN. SOLID WHITE CLASS 1 PAVEMENT MARKING PAINT, TYPE P BEADS WITH PREFORMED THERMOPLASTIC PAVEMENT MARKING BIKE SYMBOL AND PREFORMED THERMOPLASTIC PAVEMENT MARKING STRAIGHT ARROW)

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PREFORMED THERMOPLASTIC PAVEMENT MARKING, RIGHT ARROW

PREFORMED THERMOPLASTIC PAVEMENT MARKING, LEFT ARROW

STOP BARS
(PREFORMED THERMOPLASTIC PAVEMENT MARKING, 24 IN, WHITE)

CONTINENTAL CROSSWALKS
(PREFORMED THERMOPLASTIC PAVEMENT, 30 IN. WHITE FOR USE AT SIGNALIZED INTERSECTIONS AND MID-BLOCK CROSSINGS)
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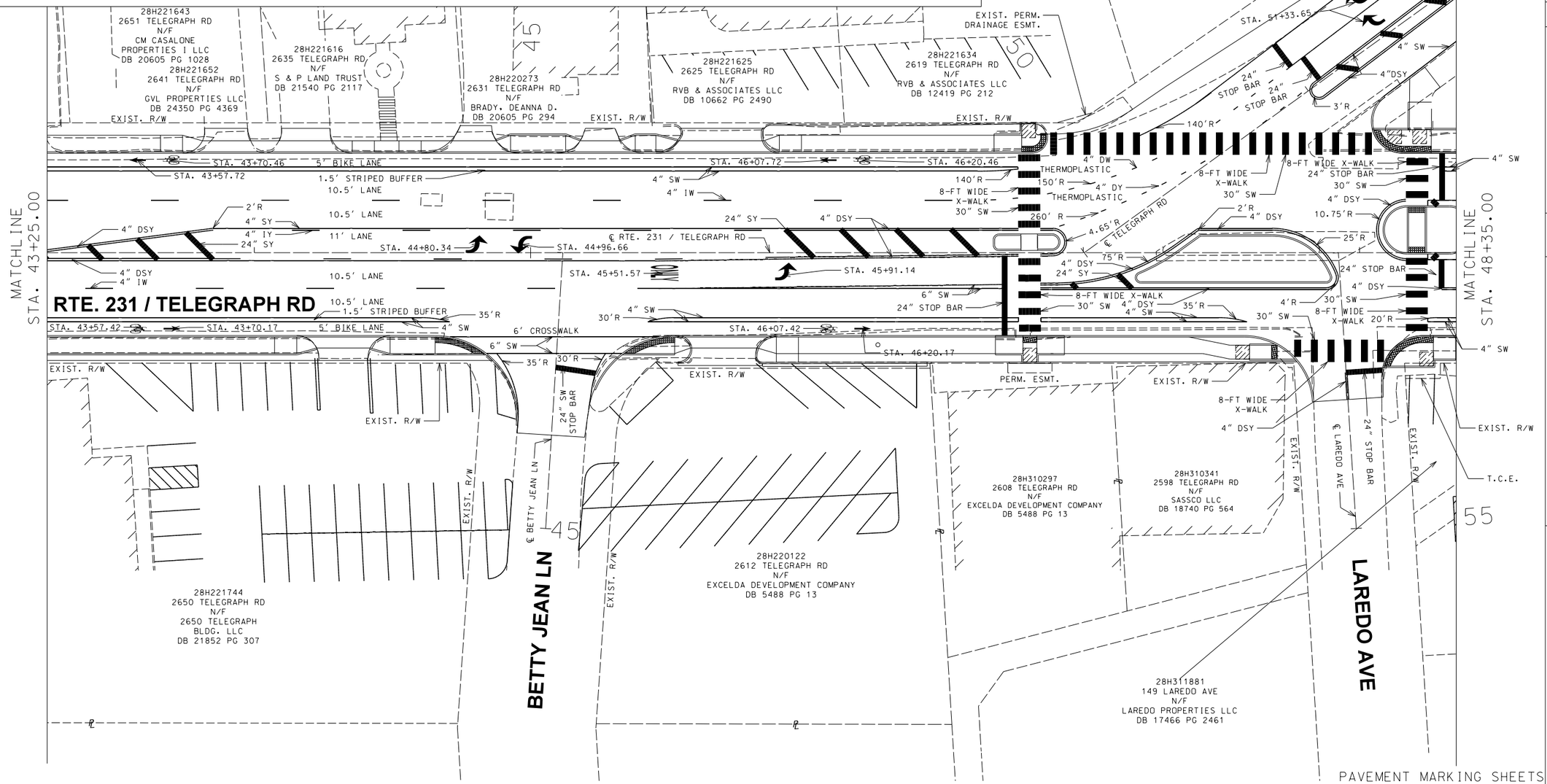
IW = INTERMITTENT WHITE LINE

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PAVEMENT MARKING SHEETS
SHEET 9 OF 33

LAYOUT	NS	01/2025
DRAWN	SMC	01/2025
REVIEWED	DJK	01/2025

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED: 7/25/2025

ROUTE	STATE
231	MO
DISTRICT	SHEET NO.
SL	426

COUNTY: ST. LOUIS
JOB NO.: J6S3631
CONTRACT ID.:
PROJECT NO.:
BRIDGE NO.:

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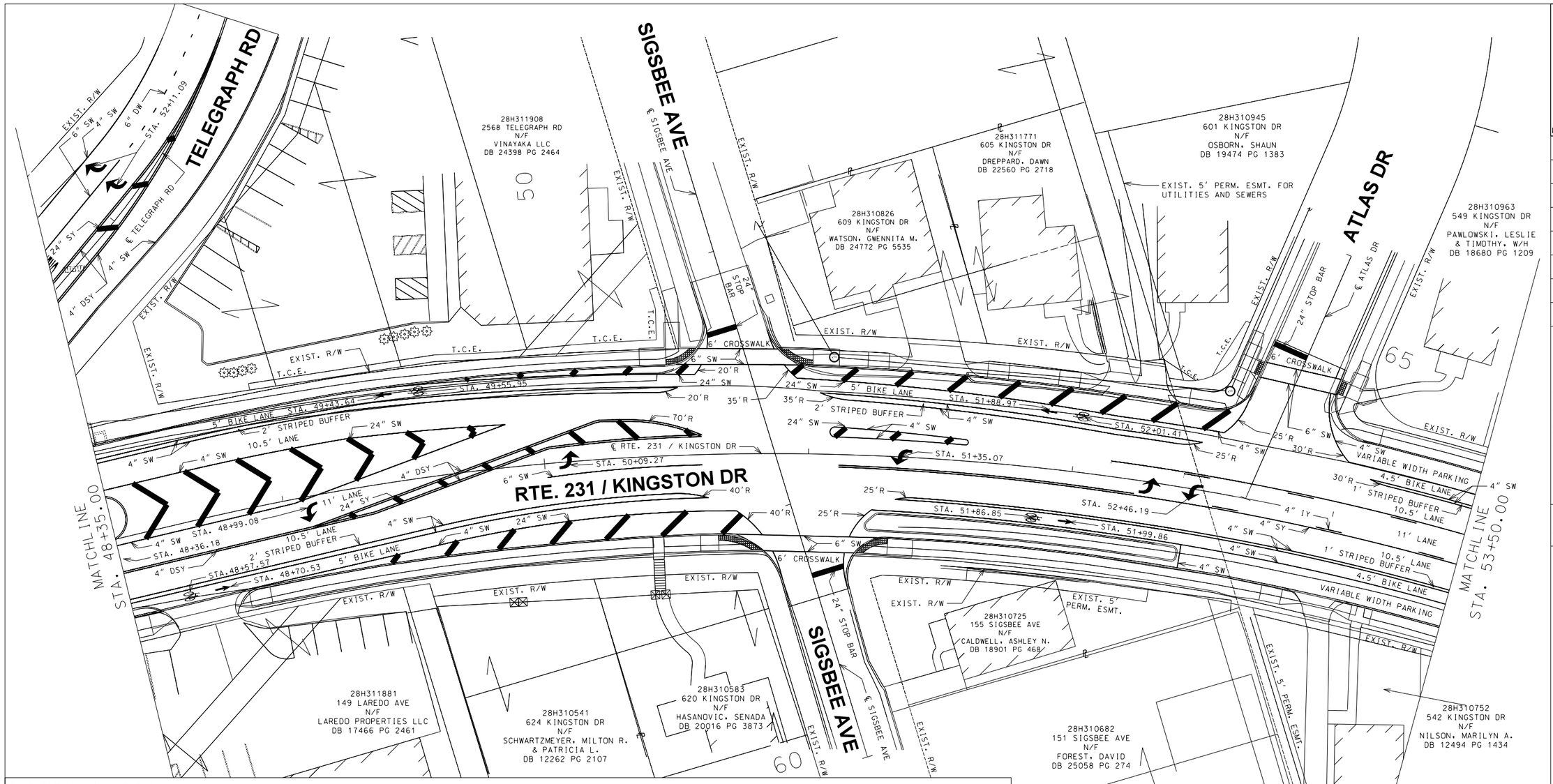
DESCRIPTION / DATE

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PAVEMENT MARKING LEGEND:

BIKE LANE
(INSIDE 4 IN. SOLID WHITE CLASS 1 PAVEMENT MARKING PAINT, TYPE P BEADS WITH PREFORMED THERMOPLASTIC PAVEMENT MARKING BIKE SYMBOL AND PREFORMED THERMOPLASTIC PAVEMENT MARKING STRAIGHT ARROW)

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PREFORMED THERMOPLASTIC PAVEMENT MARKING, RIGHT ARROW

PREFORMED THERMOPLASTIC PAVEMENT MARKING, LEFT ARROW

STOP BARS
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CONTINENTAL CROSSWALKS
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LAYOUT	NS	01/2025
DRAWN	SMC	01/2025
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SCALE
0 20 40 60

PAVEMENT MARKING SHEETS
SHEET 10 OF 33

STATE OF MISSOURI
DENNIS J. KOSCIELSKI
NUMBER PE-2005000712
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED
7/25/2025

ROUTE	STATE
231	MO
DISTRICT	SHEET NO.
SL	427

COUNTY
ST. LOUIS

JOB NO.
J6S3631

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION	DATE

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MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL
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PAVEMENT MARKING LEGEND:

BIKE LANE
(INSIDE 4 IN. SOLID WHITE CLASS 1 PAVEMENT MARKING PAINT, TYPE P BEADS WITH PREFORMED THERMOPLASTIC PAVEMENT MARKING BIKE SYMBOL AND PREFORMED THERMOPLASTIC PAVEMENT MARKING STRAIGHT ARROW)

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YIELD BAR (WHITE THERMOPLASTIC)

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NO PARKING PAVEMENT MARKINGS
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PREFORMED THERMOPLASTIC PAVEMENT MARKING, RIGHT ARROW

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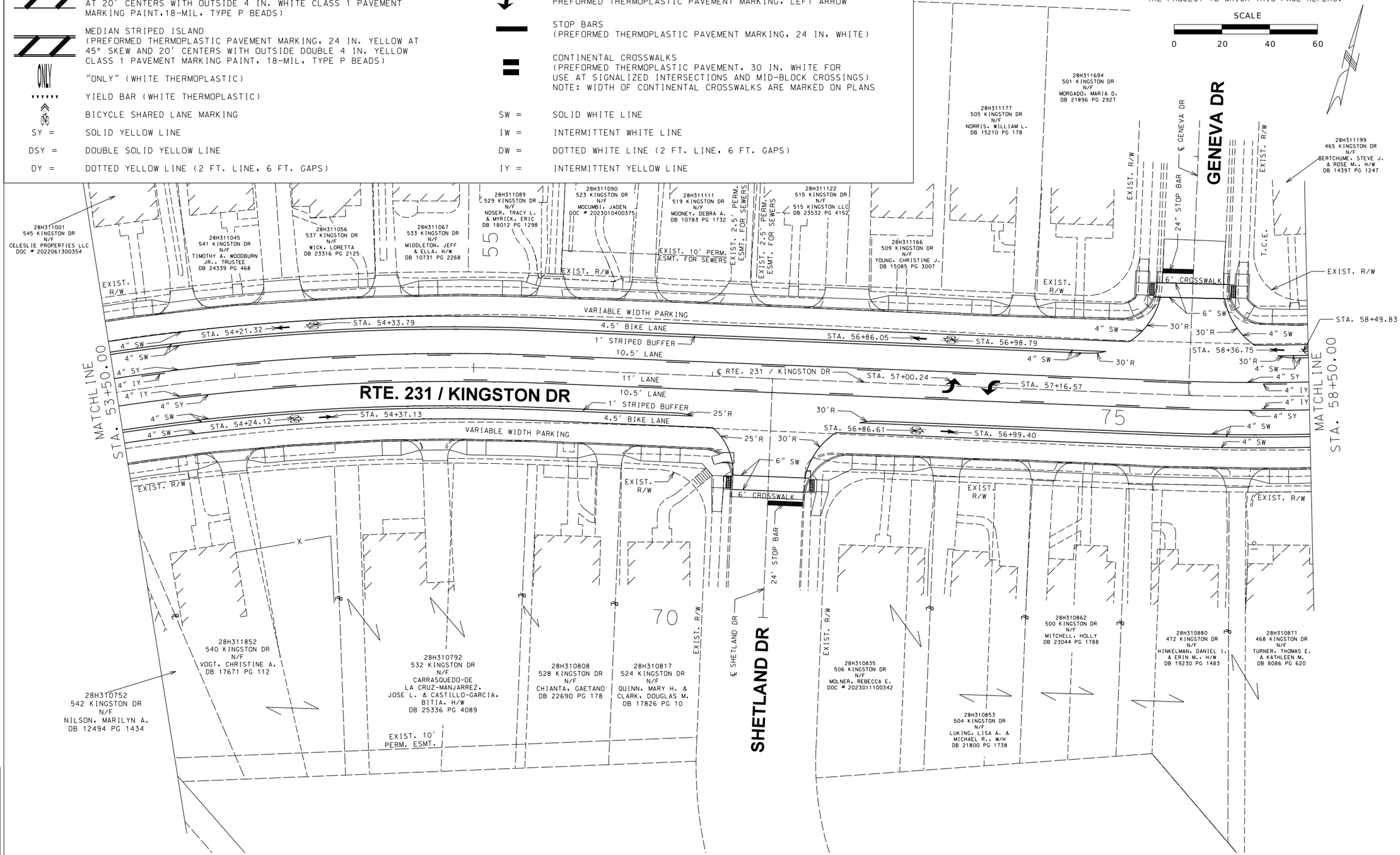
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PAVEMENT MARKING SHEETS
SHEET 11 OF 33

LAYOUT	NS	01/2025
DRAWN	SMC	01/2025
REVIEWED	DJK	01/2025

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STATE OF MISSOURI
DENNIS J. KOSCIELSKI
NUMBER PE-2005000712
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED
7/25/2025

ROUTE	STATE
231	MO
DISTRICT	SHEET NO.
SL	428

COUNTY
ST. LOUIS

JOB NO.
J6S3631

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION	DATE

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MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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314.770.0467

PAVEMENT MARKING LEGEND:

BIKE LANE
(INSIDE 4 IN. SOLID WHITE CLASS 1 PAVEMENT MARKING PAINT, TYPE P BEADS WITH PREFORMED THERMOPLASTIC PAVEMENT MARKING BIKE SYMBOL AND PREFORMED THERMOPLASTIC PAVEMENT MARKING STRAIGHT ARROW)

STRIPED ISLAND BETWEEN THRU AND TURN LANES
(PREFORMED THERMOPLASTIC PAVEMENT MARKING, 24 IN WHITE, AT 20' CENTERS WITH OUTSIDE 4 IN. WHITE CLASS 1 PAVEMENT MARKING PAINT,18-MIL, TYPE P BEADS)

MEDIAN STRIPED ISLAND
(PREFORMED THERMOPLASTIC PAVEMENT MARKING, 24 IN. YELLOW AT 45° SKEW AND 20' CENTERS WITH OUTSIDE DOUBLE 4 IN. YELLOW CLASS 1 PAVEMENT MARKING PAINT, 18-MIL, TYPE P BEADS)

ONLY — "ONLY" (WHITE THERMOPLASTIC)

YIELD BAR (WHITE THERMOPLASTIC)

BICYCLE SHARED LANE MARKING

SY = SOLID YELLOW LINE

DSY = DOUBLE SOLID YELLOW LINE

DY = DOTTED YELLOW LINE (2 FT. LINE, 6 FT. GAPS)

NO PARKING PAVEMENT MARKINGS
(PREFORMED THERMOPLASTIC PAVEMENT MARKING, 24 IN. WHITE AT 45° SKEW AND 20' CENTERS WITH INSIDE 4 IN. WHITE CLASS 1 PAVEMENT MARKING PAINT, 18-MIL, TYPE P BEADS)

PREFORMED THERMOPLASTIC PAVEMENT MARKING, RIGHT ARROW

PREFORMED THERMOPLASTIC PAVEMENT MARKING, LEFT ARROW

STOP BARS
(PREFORMED THERMOPLASTIC PAVEMENT MARKING, 24 IN, WHITE)

CONTINENTAL CROSSWALKS
(PREFORMED THERMOPLASTIC PAVEMENT, 30 IN. WHITE FOR USE AT SIGNALIZED INTERSECTIONS AND MID-BLOCK CROSSINGS)
NOTE: WIDTH OF CONTINENTAL CROSSWALKS ARE MARKED ON PLANS

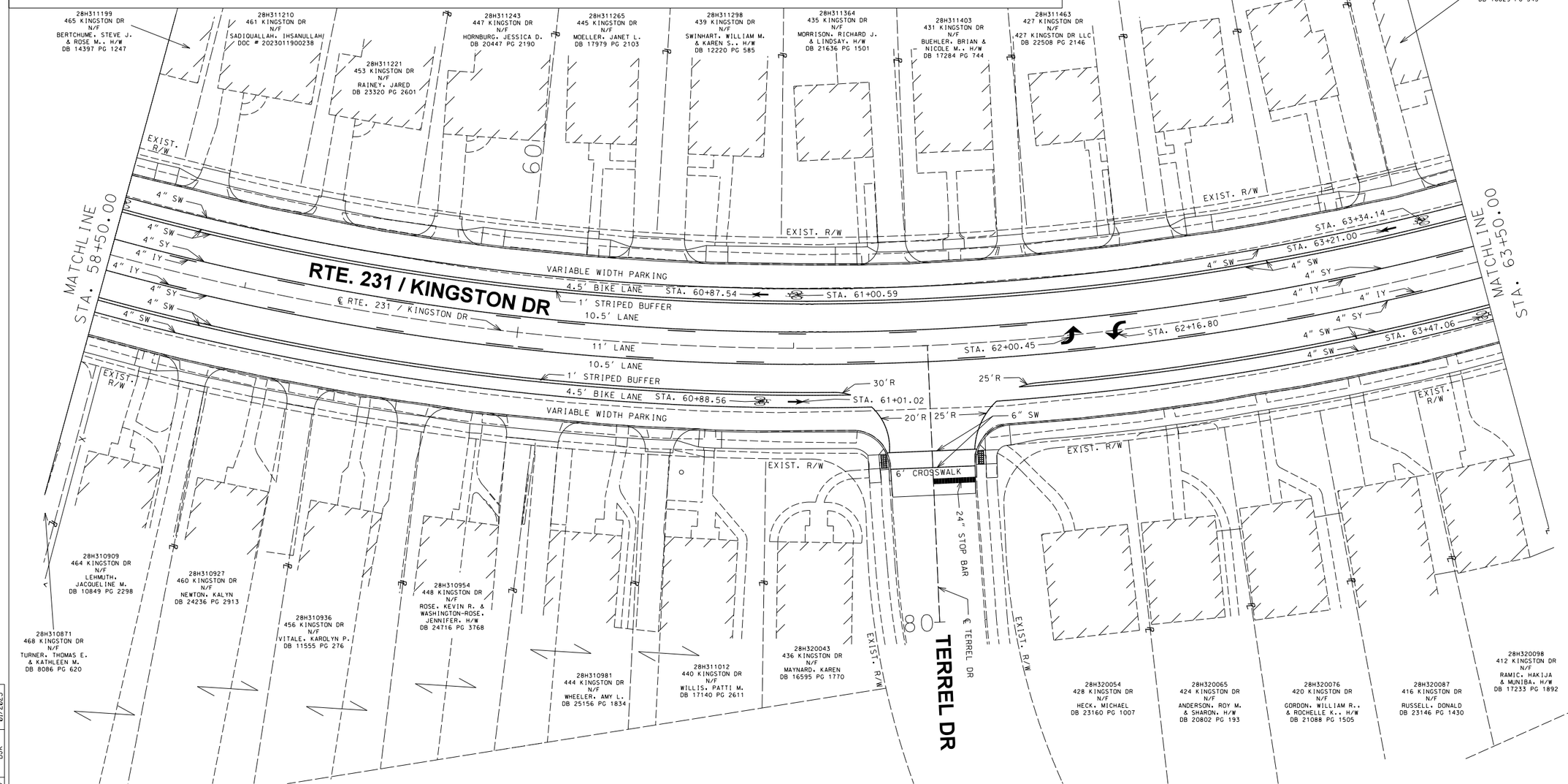
SW = SOLID WHITE LINE

IW = INTERMITTENT WHITE LINE

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PAVEMENT MARKING SHEETS
SHEET 12 OF 33

LAYOUT	NS	01/2025
DRAWN	SMC	01/2025
REVIEWED	DJK	01/2025

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STATE OF MISSOURI
DENNIS J. KOSCIELSKI
NUMBER PE-2005000712
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED 7/25/2025

ROUTE	STATE
231	MO
DISTRICT	SHEET NO.
SL	429

COUNTY: ST. LOUIS
JOB NO.: J6S3631
CONTRACT ID.:
PROJECT NO.:
BRIDGE NO.:

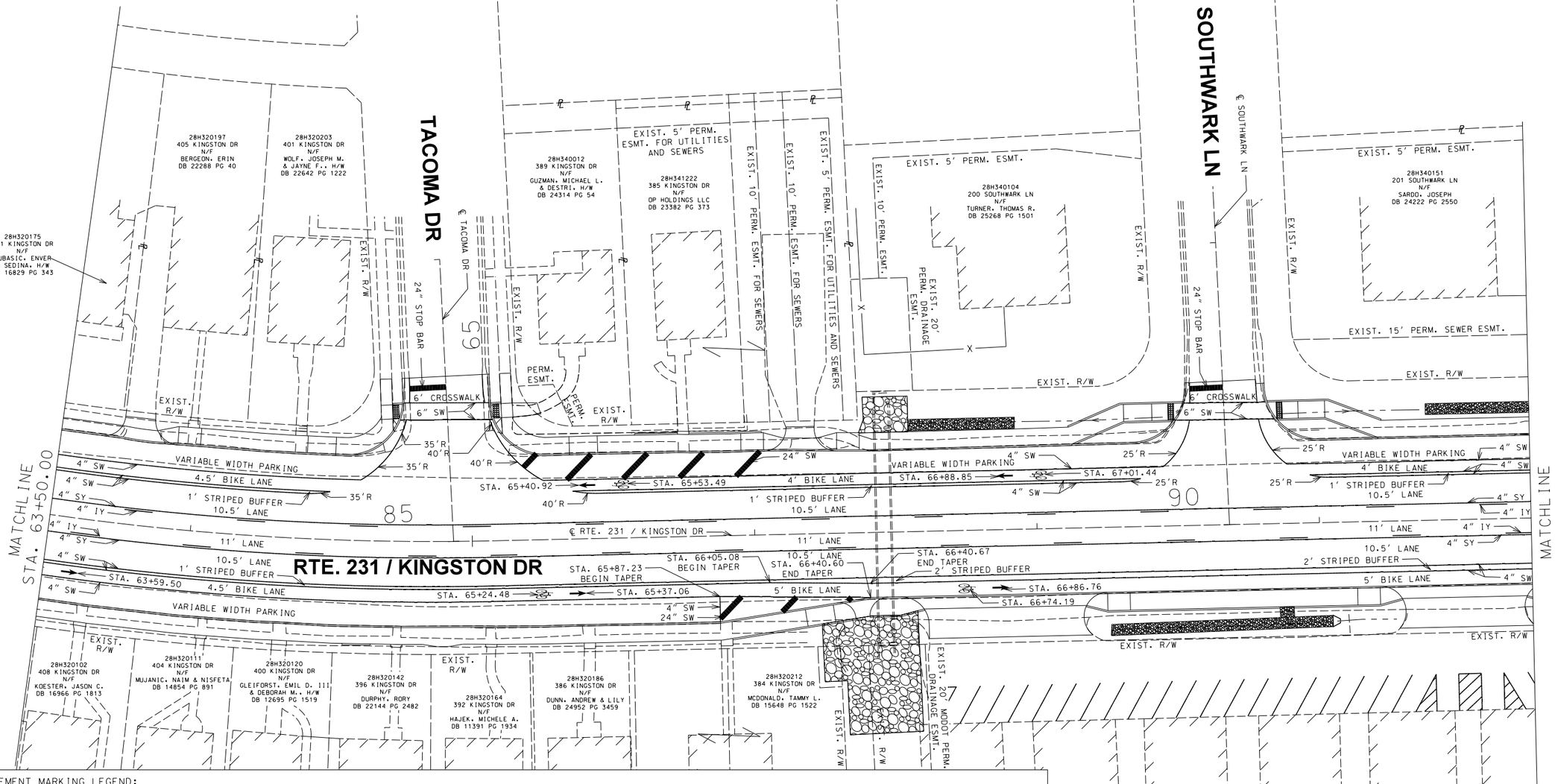
DESCRIPTION	DATE

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STOP BARS
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SCALE
0 20 40 60

PAVEMENT MARKING SHEETS
SHEET 13 OF 33

LAYOUT	NS	01/2025
DRAWN	SMC	01/2025
REVIEWED	DJK	01/2025

STATE OF MISSOURI
DENNIS J KOSCIELSKI
NUMBER PE-2005000712
PROFESSIONAL ENGINEER

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DATE PREPARED
7/25/2025

ROUTE	STATE
231	MO
DISTRICT	SHEET NO.
SL	430

COUNTY
ST. LOUIS

JOB NO.
J6S3631

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION	DATE

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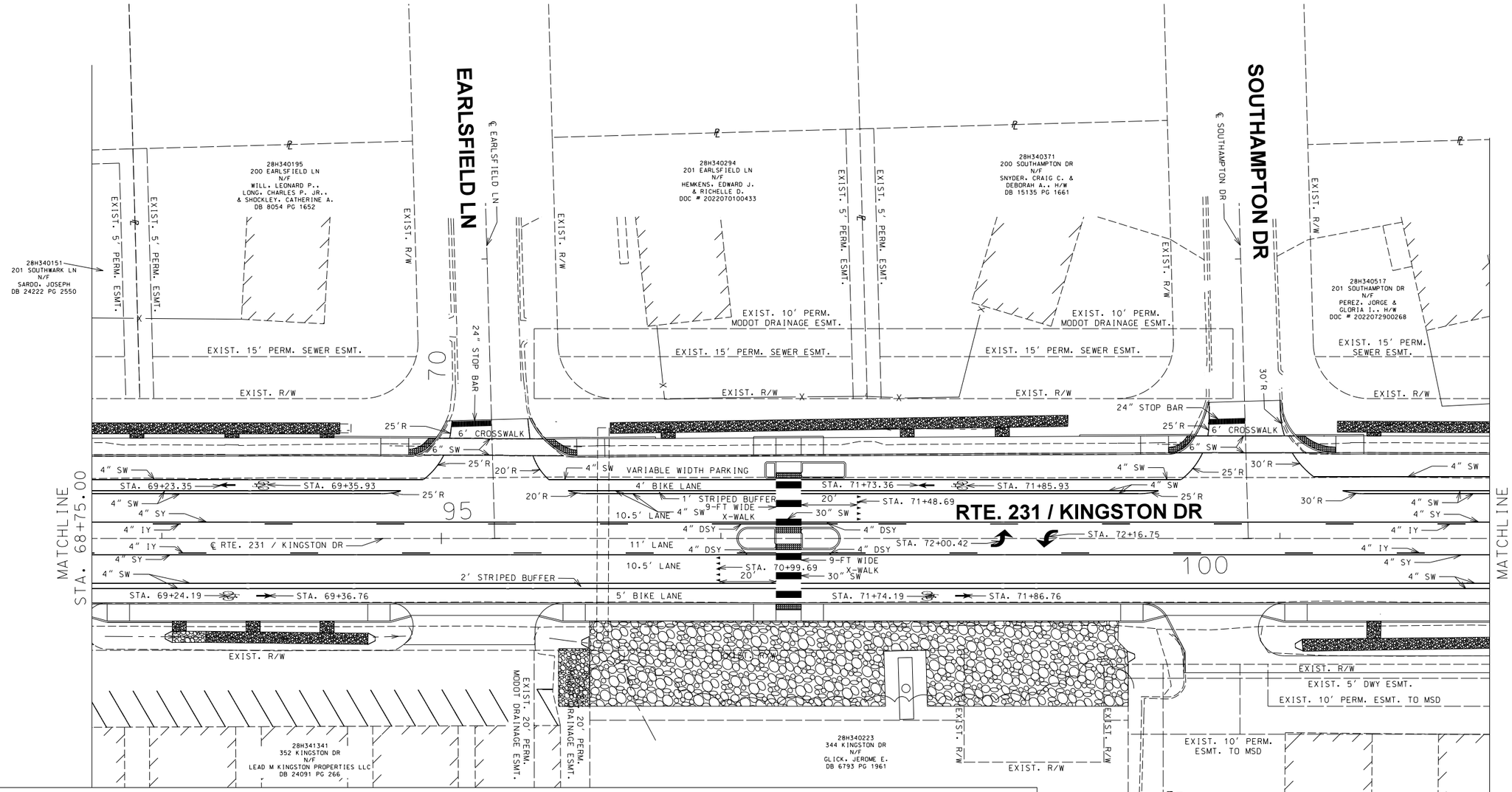
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PAVEMENT MARKING LEGEND:

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LAYOUT	NS	01/2025
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SCALE
0 20 40 60

PAVEMENT MARKING SHEETS
SHEET 14 OF 33

STATE OF MISSOURI
DENNIS J KOSCIELSKI
NUMBER PE-2005000712
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED
7/25/2025

ROUTE	STATE
231	MO
DISTRICT	SHEET NO.
SL	431

COUNTY
ST. LOUIS

JOB NO.
J6S3631

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DATE	DESCRIPTION

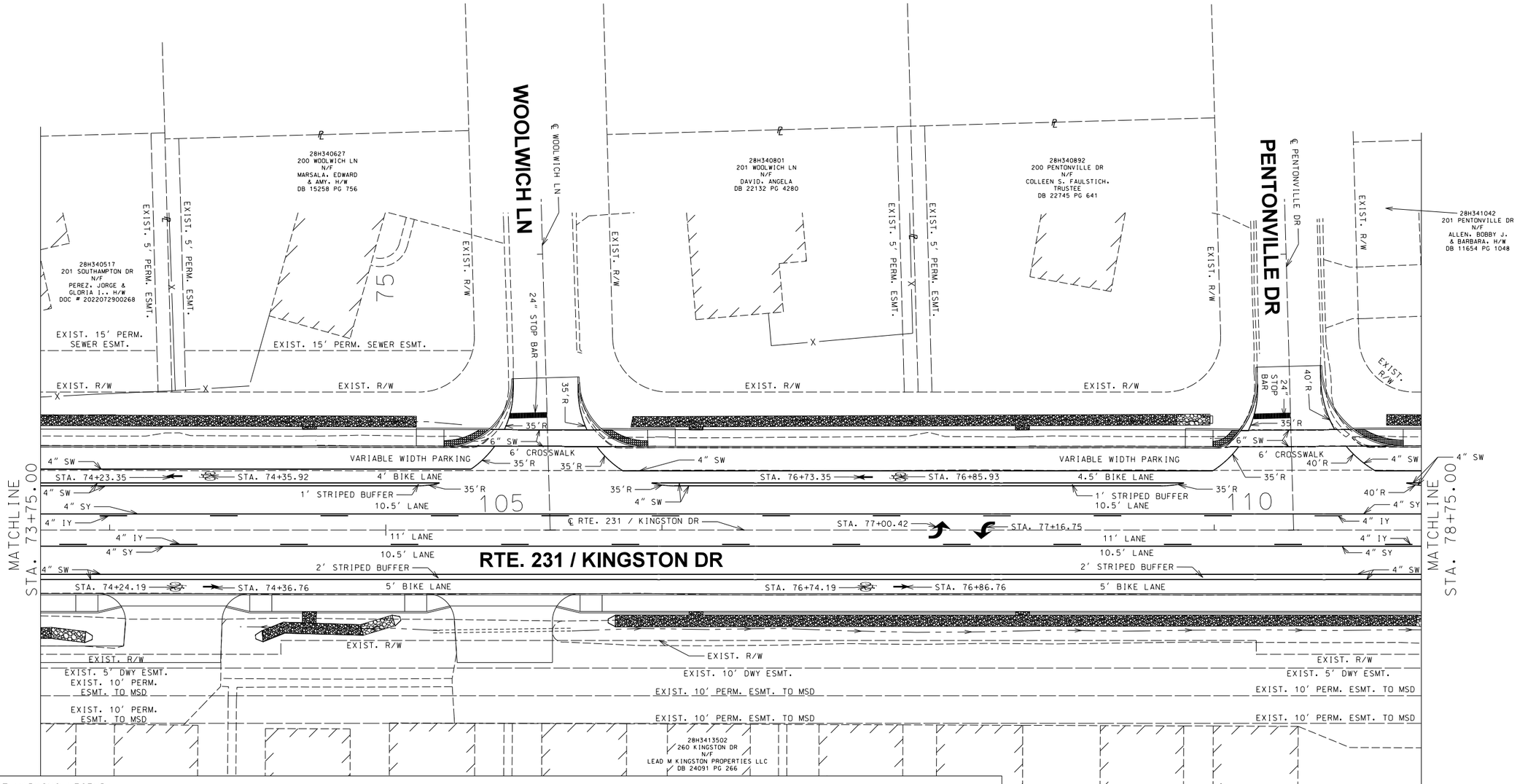
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PAVEMENT MARKING LEGEND:

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REVIEWED	DJK	01/2025

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PAVEMENT MARKING SHEETS
SHEET 15 OF 33

STATE OF MISSOURI
DENNIS J KOSCIELSKI
NUMBER PE-2005000712
PROFESSIONAL ENGINEER

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DATE PREPARED
7/25/2025

ROUTE	STATE
231	MO
DISTRICT	SHEET NO.
SL	432

COUNTY
ST. LOUIS

JOB NO.
J6S3631

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DATE	DESCRIPTION

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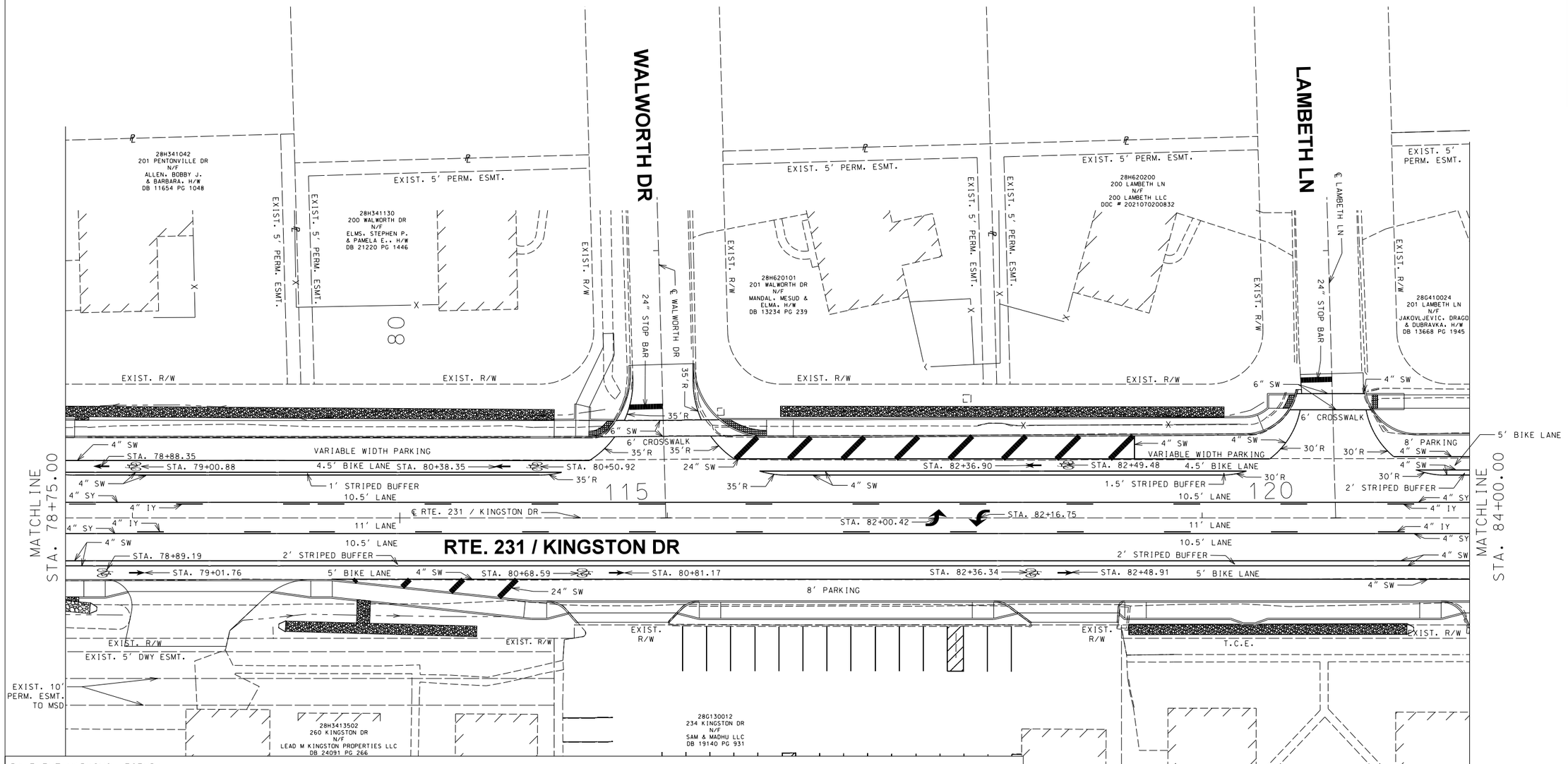
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PAVEMENT MARKING LEGEND:

BIKE LANE
(INSIDE 4 IN. SOLID WHITE CLASS 1 PAVEMENT MARKING PAINT, TYPE P BEADS WITH PREFORMED THERMOPLASTIC PAVEMENT MARKING BIKE SYMBOL AND PREFORMED THERMOPLASTIC PAVEMENT MARKING STRAIGHT ARROW)

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SCALE
0 20 40 60

PAVEMENT MARKING SHEETS
SHEET 16 OF 33

LAYOUT	NS	01/2025
DRAWN	SMC	01/2025
REVIEWED	DJK	01/2025

STATE OF MISSOURI
DENNIS J KOSCIELSKI
NUMBER PE-2005000712
PROFESSIONAL ENGINEER

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DATE PREPARED
7/25/2025

ROUTE	STATE
231	MO
DISTRICT	SHEET NO.
SL	433

COUNTY
ST. LOUIS

JOB NO.
J6S3631

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION	DATE

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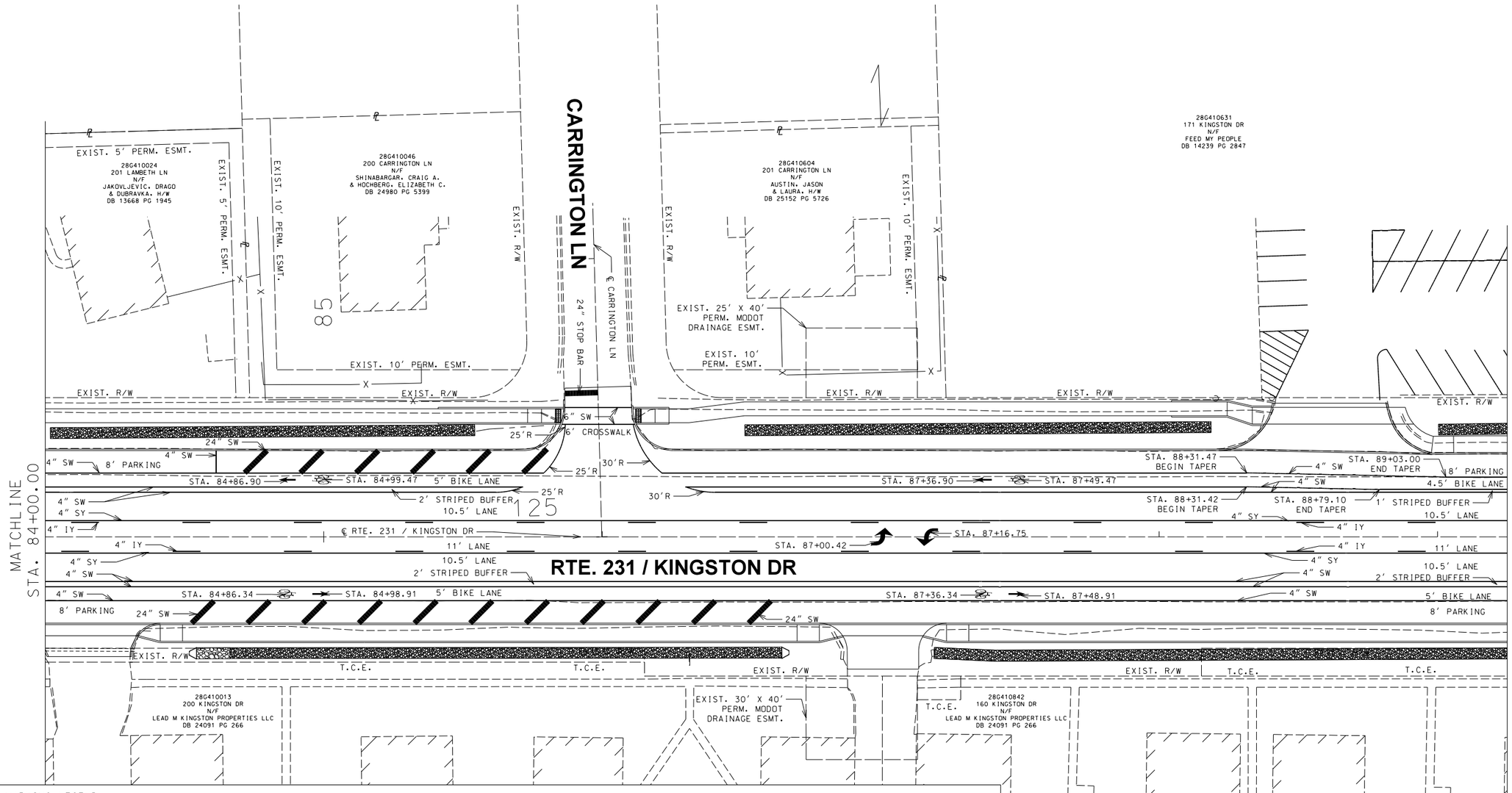
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PAVEMENT MARKING LEGEND:

BIKE LANE
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PAVEMENT MARKING SHEETS
SHEET 17 OF 33

STATE OF MISSOURI
DENNIS J KOSCIELSKI
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DATE PREPARED
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ROUTE	STATE
231	MO
DISTRICT	SHEET NO.
SL	434

COUNTY
ST. LOUIS

JOB NO.
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CONTRACT ID.

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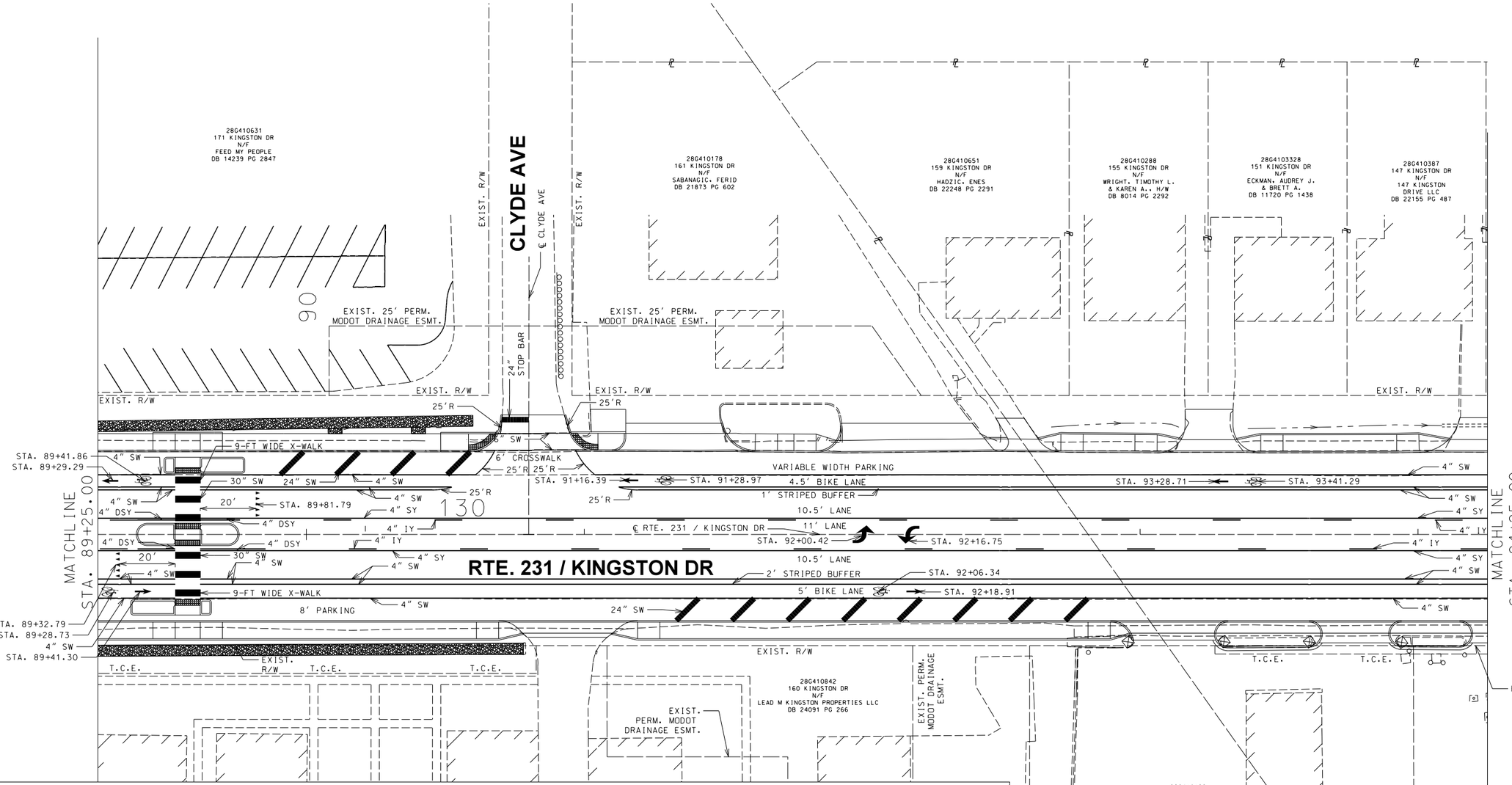
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PAVEMENT MARKING LEGEND:

- BIKE LANE (INSIDE 4 IN. SOLID WHITE CLASS 1 PAVEMENT MARKING PAINT, TYPE P BEADS WITH PREFORMED THERMOPLASTIC PAVEMENT MARKING BIKE SYMBOL AND PREFORMED THERMOPLASTIC PAVEMENT MARKING STRAIGHT ARROW)
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- PREFORMED THERMOPLASTIC PAVEMENT MARKING, LEFT ARROW
- STOP BARS (PREFORMED THERMOPLASTIC PAVEMENT MARKING, 24 IN, WHITE)
- CONTINENTAL CROSSWALKS (PREFORMED THERMOPLASTIC PAVEMENT, 30 IN. WHITE FOR USE AT SIGNALIZED INTERSECTIONS AND MID-BLOCK CROSSINGS) NOTE: WIDTH OF CONTINENTAL CROSSWALKS ARE MARKED ON PLANS

SY =	SOLID YELLOW LINE
DSY =	DOUBLE SOLID YELLOW LINE
DY =	DOTTED YELLOW LINE (2 FT. LINE, 6 FT. GAPS)
SW =	SOLID WHITE LINE
IW =	INTERMITTENT WHITE LINE
DW =	DOTTED WHITE LINE (2 FT. LINE, 6 FT. GAPS)
IY =	INTERMITTENT YELLOW LINE

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0 20 40 60

PAVEMENT MARKING SHEETS
SHEET 18 OF 33

LAYOUT	NS	01/2025
DRAWN	SMC	01/2025
REVIEWED	DJK	01/2025

STATE OF MISSOURI
DENNIS J. KOSCIELSKI
NUMBER PE-2005000712
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED
7/25/2025

ROUTE	STATE
231	MO
DISTRICT	SHEET NO.
SL	435

COUNTY
ST. LOUIS

JOB NO.
J6S3631

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

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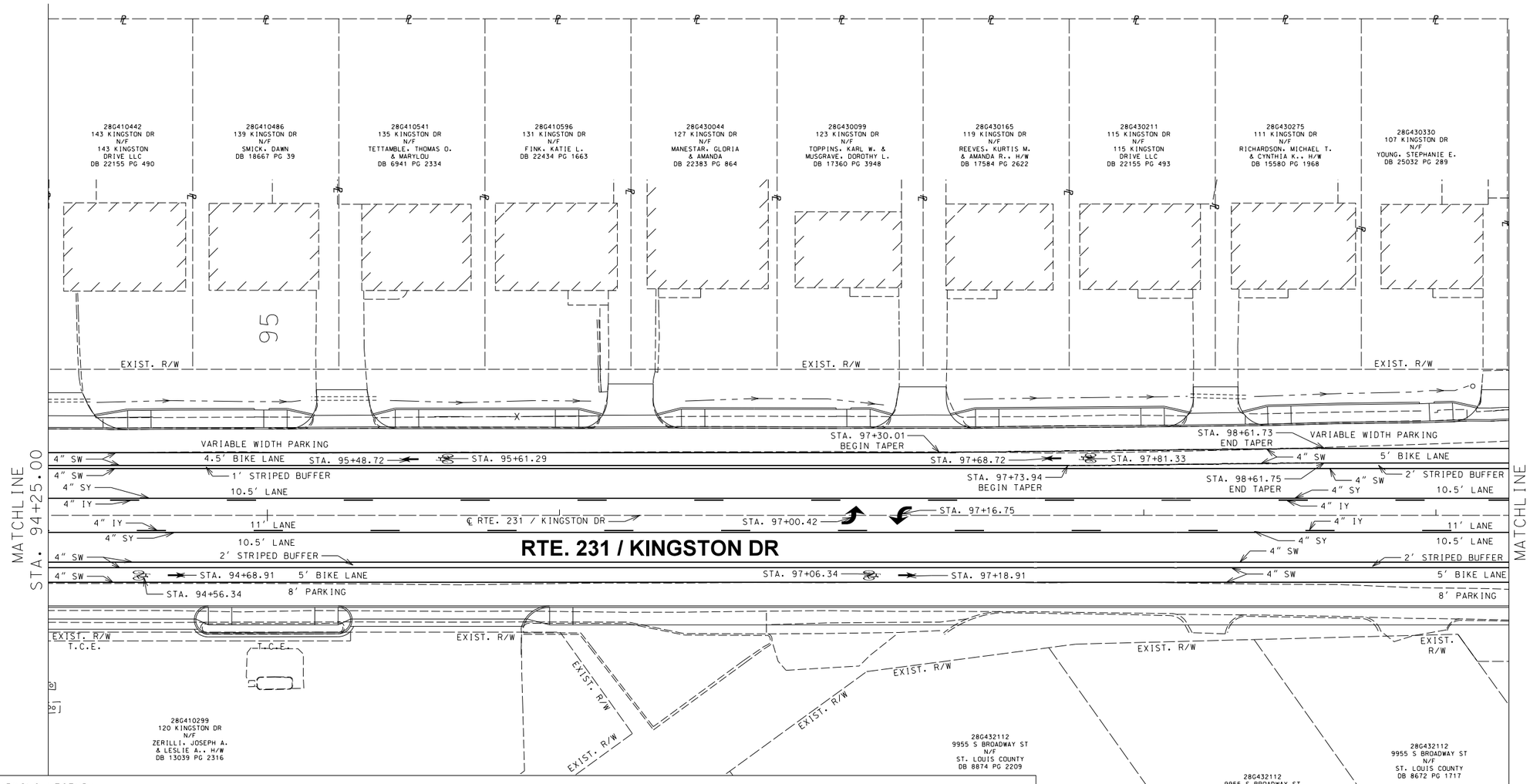
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PAVEMENT MARKING LEGEND:

BIKE LANE
(INSIDE 4 IN. SOLID WHITE CLASS 1 PAVEMENT MARKING PAINT, TYPE P BEADS WITH PREFORMED THERMOPLASTIC PAVEMENT MARKING BIKE SYMBOL AND PREFORMED THERMOPLASTIC PAVEMENT MARKING STRAIGHT ARROW)

STRIPED ISLAND BETWEEN THRU AND TURN LANES
(PREFORMED THERMOPLASTIC PAVEMENT MARKING, 24 IN WHITE, AT 20' CENTERS WITH OUTSIDE 4 IN. WHITE CLASS 1 PAVEMENT MARKING PAINT,18-MIL, TYPE P BEADS)

MEDIAN STRIPED ISLAND
(PREFORMED THERMOPLASTIC PAVEMENT MARKING, 24 IN. YELLOW AT 45° SKEW AND 20' CENTERS WITH OUTSIDE DOUBLE 4 IN. YELLOW CLASS 1 PAVEMENT MARKING PAINT, 18-MIL, TYPE P BEADS)

"ONLY" (WHITE THERMOPLASTIC)

YIELD BAR (WHITE THERMOPLASTIC)

BICYCLE SHARED LANE MARKING

SY = SOLID YELLOW LINE

DSY = DOUBLE SOLID YELLOW LINE

DY = DOTTED YELLOW LINE (2 FT. LINE, 6 FT. GAPS)

NO PARKING PAVEMENT MARKINGS
(PREFORMED THERMOPLASTIC PAVEMENT MARKING, 24 IN. WHITE AT 45° SKEW AND 20' CENTERS WITH INSIDE 4 IN. WHITE CLASS 1 PAVEMENT MARKING PAINT, 18-MIL, TYPE P BEADS)

PREFORMED THERMOPLASTIC PAVEMENT MARKING, RIGHT ARROW

PREFORMED THERMOPLASTIC PAVEMENT MARKING, LEFT ARROW

STOP BARS
(PREFORMED THERMOPLASTIC PAVEMENT MARKING, 24 IN. WHITE)

CONTINENTAL CROSSWALKS
(PREFORMED THERMOPLASTIC PAVEMENT, 30 IN. WHITE FOR USE AT SIGNALIZED INTERSECTIONS AND MID-BLOCK CROSSINGS)
NOTE: WIDTH OF CONTINENTAL CROSSWALKS ARE MARKED ON PLANS

SW = SOLID WHITE LINE

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SCALE
0 20 40 60

PAVEMENT MARKING SHEETS
SHEET 19 OF 33

LAYOUT	NS	01/2025
DRAWN	SMC	01/2025
REVIEWED	DJK	01/2025

STATE OF MISSOURI
DENNIS J KOSCIELSKI
NUMBER PE-2005000712
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED
7/25/2025

ROUTE	STATE
231	MO
DISTRICT	SHEET NO.
SL	436

COUNTY
ST. LOUIS

JOB NO.
J6S3631

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION	DATE

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PAVEMENT MARKING LEGEND:

BIKE LANE
(INSIDE 4 IN. SOLID WHITE CLASS 1 PAVEMENT MARKING PAINT, TYPE P BEADS WITH PREFORMED THERMOPLASTIC PAVEMENT MARKING BIKE SYMBOL AND PREFORMED THERMOPLASTIC PAVEMENT MARKING STRAIGHT ARROW)

STRIPED ISLAND BETWEEN THRU AND TURN LANES
(PREFORMED THERMOPLASTIC PAVEMENT MARKING, 24 IN WHITE, AT 20' CENTERS WITH OUTSIDE 4 IN. WHITE CLASS 1 PAVEMENT MARKING PAINT,18-MIL, TYPE P BEADS)

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(PREFORMED THERMOPLASTIC PAVEMENT MARKING, 24 IN. YELLOW AT 45° SKEW AND 20' CENTERS WITH OUTSIDE DOUBLE 4 IN. YELLOW CLASS 1 PAVEMENT MARKING PAINT, 18-MIL, TYPE P BEADS)

ONLY — "ONLY" (WHITE THERMOPLASTIC)

YIELD BAR (WHITE THERMOPLASTIC)

BICYCLE SHARED LANE MARKING

SY = SOLID YELLOW LINE

DSY = DOUBLE SOLID YELLOW LINE

DY = DOTTED YELLOW LINE (2 FT. LINE, 6 FT. GAPS)

NO PARKING PAVEMENT MARKINGS
(PREFORMED THERMOPLASTIC PAVEMENT MARKING, 24 IN. WHITE AT 45° SKEW AND 20' CENTERS WITH INSIDE 4 IN. WHITE CLASS 1 PAVEMENT MARKING PAINT, 18-MIL, TYPE P BEADS)

PREFORMED THERMOPLASTIC PAVEMENT MARKING, RIGHT ARROW

PREFORMED THERMOPLASTIC PAVEMENT MARKING, LEFT ARROW

STOP BARS
(PREFORMED THERMOPLASTIC PAVEMENT MARKING, 24 IN, WHITE)

CONTINENTAL CROSSWALKS
(PREFORMED THERMOPLASTIC PAVEMENT, 30 IN. WHITE FOR USE AT SIGNALIZED INTERSECTIONS AND MID-BLOCK CROSSINGS)
NOTE: WIDTH OF CONTINENTAL CROSSWALKS ARE MARKED ON PLANS

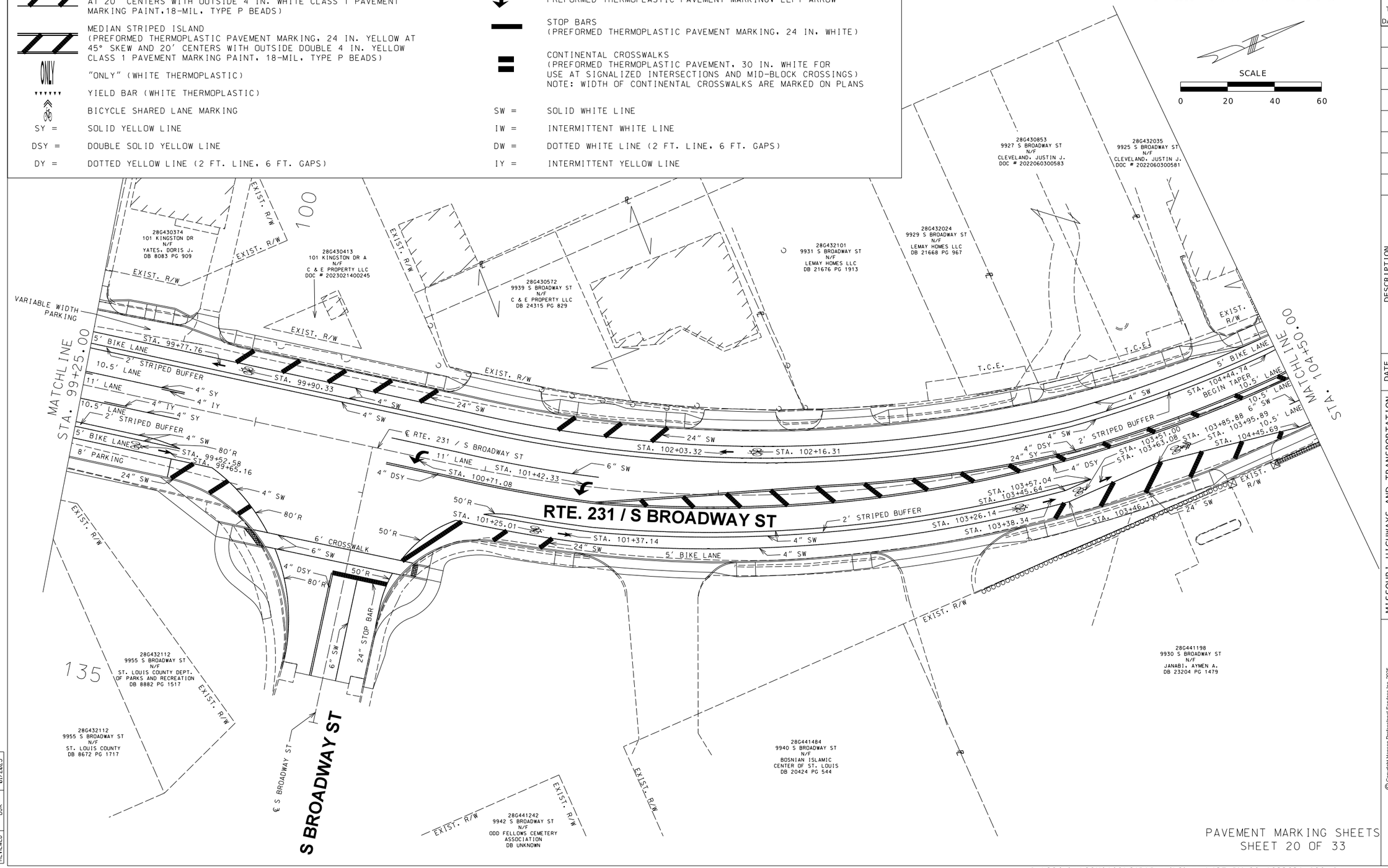
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PAVEMENT MARKING SHEETS
SHEET 20 OF 33

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DRAWN	SMC	01/2025
REVIEWED	DJK	01/2025

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DATE PREPARED 7/25/2025

ROUTE	STATE
231	MO
DISTRICT	SHEET NO.
SL	437

COUNTY: ST. LOUIS
JOB NO.: J6S3631
CONTRACT ID.:
PROJECT NO.:
BRIDGE NO.:

DESCRIPTION	DATE

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PAVEMENT MARKING LEGEND:

BIKE LANE
(INSIDE 4 IN. SOLID WHITE CLASS 1 PAVEMENT MARKING PAINT, TYPE P BEADS WITH PREFORMED THERMOPLASTIC PAVEMENT MARKING BIKE SYMBOL AND PREFORMED THERMOPLASTIC PAVEMENT MARKING STRAIGHT ARROW)

STRIPED ISLAND BETWEEN THRU AND TURN LANES
(PREFORMED THERMOPLASTIC PAVEMENT MARKING, 24 IN WHITE, AT 20' CENTERS WITH OUTSIDE 4 IN. WHITE CLASS 1 PAVEMENT MARKING PAINT,18-MIL, TYPE P BEADS)

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ONLY — "ONLY" (WHITE THERMOPLASTIC)

YIELD BAR (WHITE THERMOPLASTIC)

BICYCLE SHARED LANE MARKING

SY = SOLID YELLOW LINE

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NO PARKING PAVEMENT MARKINGS
(PREFORMED THERMOPLASTIC PAVEMENT MARKING, 24 IN. WHITE AT 45° SKEW AND 20' CENTERS WITH INSIDE 4 IN. WHITE CLASS 1 PAVEMENT MARKING PAINT, 18-MIL, TYPE P BEADS)

PREFORMED THERMOPLASTIC PAVEMENT MARKING, RIGHT ARROW

PREFORMED THERMOPLASTIC PAVEMENT MARKING, LEFT ARROW

STOP BARS
(PREFORMED THERMOPLASTIC PAVEMENT MARKING, 24 IN, WHITE)

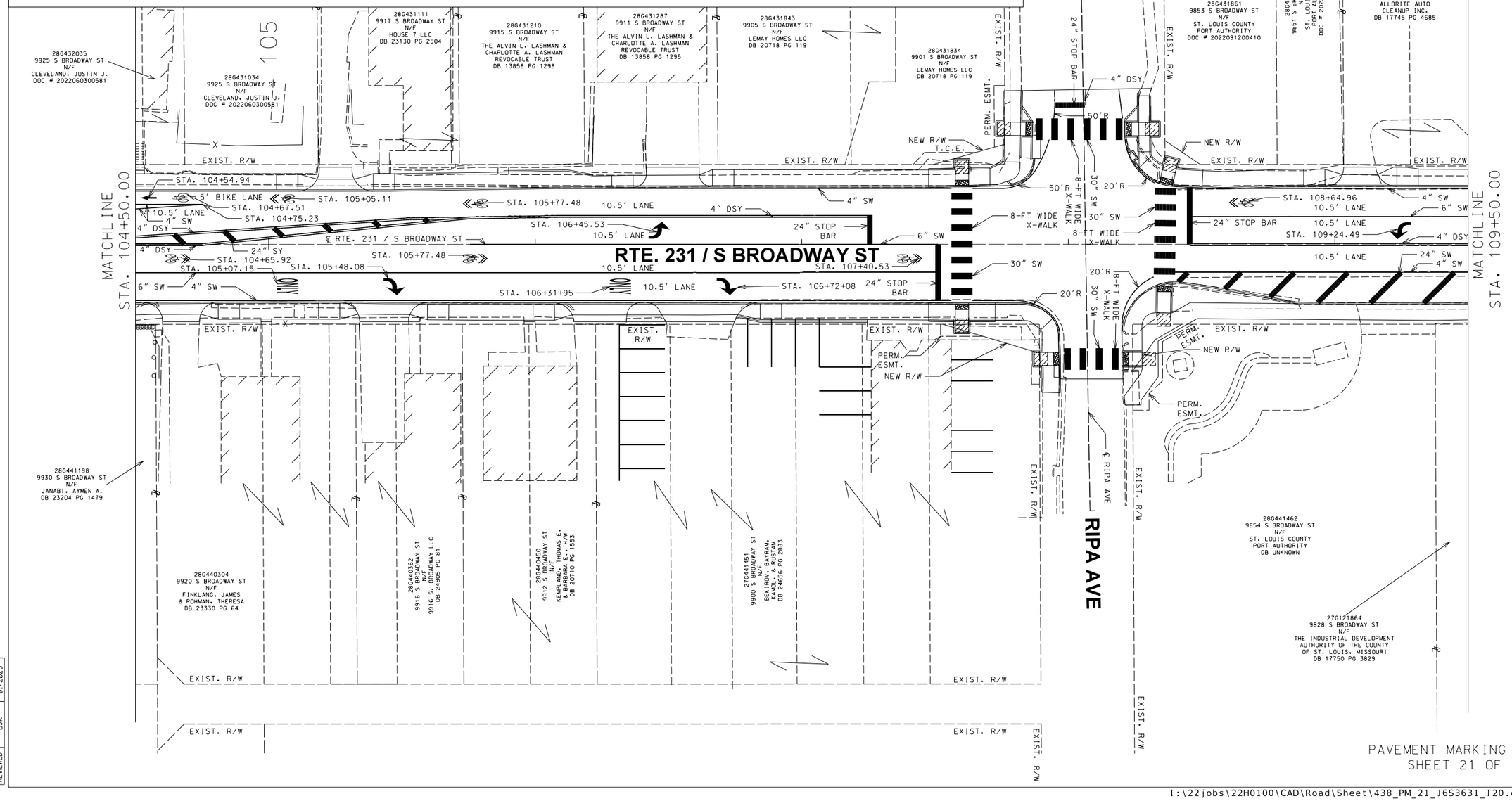
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(PREFORMED THERMOPLASTIC PAVEMENT, 30 IN. WHITE FOR USE AT SIGNALIZED INTERSECTIONS AND MID-BLOCK CROSSINGS)
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PAVEMENT MARKING SHEETS
SHEET 21 OF 33

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STATE OF MISSOURI
DENNIS J. KOSCIELSKI
NUMBER PE-2005000712
PROFESSIONAL ENGINEER

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DATE PREPARED 7/25/2025

ROUTE	STATE
231	MO
DISTRICT	SHEET NO.
SL	438

COUNTY: ST. LOUIS
JOB NO.: J6S3631
CONTRACT ID.:
PROJECT NO.:
BRIDGE NO.:

DESCRIPTION	DATE

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REVIEWED	DJK	01/2025

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PAVEMENT MARKING LEGEND:

BIKE LANE
(INSIDE 4 IN. SOLID WHITE CLASS 1 PAVEMENT MARKING PAINT, TYPE P BEADS WITH PREFORMED THERMOPLASTIC PAVEMENT MARKING BIKE SYMBOL AND PREFORMED THERMOPLASTIC PAVEMENT MARKING STRAIGHT ARROW)

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ONLY — "ONLY" (WHITE THERMOPLASTIC)

YIELD BAR (WHITE THERMOPLASTIC)

BICYCLE SHARED LANE MARKING

SY = SOLID YELLOW LINE

DSY = DOUBLE SOLID YELLOW LINE

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NO PARKING PAVEMENT MARKINGS
(PREFORMED THERMOPLASTIC PAVEMENT MARKING, 24 IN. WHITE AT 45° SKEW AND 20' CENTERS WITH INSIDE 4 IN. WHITE CLASS 1 PAVEMENT MARKING PAINT, 18-MIL, TYPE P BEADS)

PREFORMED THERMOPLASTIC PAVEMENT MARKING, RIGHT ARROW

PREFORMED THERMOPLASTIC PAVEMENT MARKING, LEFT ARROW

STOP BARS
(PREFORMED THERMOPLASTIC PAVEMENT MARKING, 24 IN, WHITE)

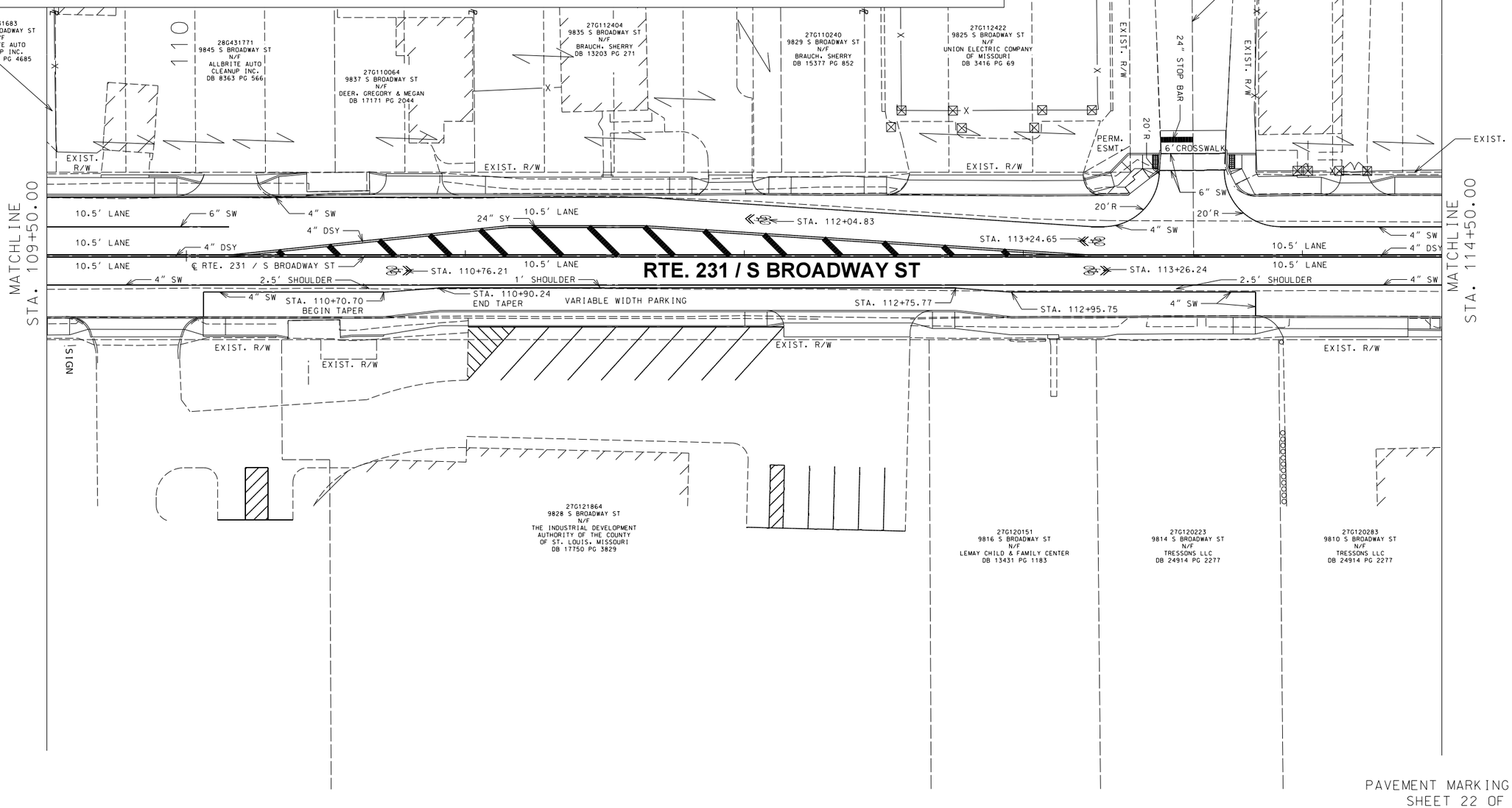
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(PREFORMED THERMOPLASTIC PAVEMENT, 30 IN. WHITE FOR USE AT SIGNALIZED INTERSECTIONS AND MID-BLOCK CROSSINGS)
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SW = SOLID WHITE LINE

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DW = DOTTED WHITE LINE (2 FT. LINE, 6 FT. GAPS)

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PAVEMENT MARKING SHEETS
SHEET 22 OF 33

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STATE OF MISSOURI
DENNIS J. KOSCIELSKI
NUMBER PE-2005000712
PROFESSIONAL ENGINEER

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DATE PREPARED 7/25/2025

ROUTE	STATE
231	MO
DISTRICT	SHEET NO.
SL	439

COUNTY: ST. LOUIS
JOB NO.: J6S3631
CONTRACT ID.:
PROJECT NO.:
BRIDGE NO.:

NO.	DESCRIPTION	DATE

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REVIEWED	DJK	01/2025

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PAVEMENT MARKING LEGEND:

BIKE LANE
(INSIDE 4 IN. SOLID WHITE CLASS 1 PAVEMENT MARKING PAINT, TYPE P BEADS WITH PREFORMED THERMOPLASTIC PAVEMENT MARKING BIKE SYMBOL AND PREFORMED THERMOPLASTIC PAVEMENT MARKING STRAIGHT ARROW)

STRIPED ISLAND BETWEEN THRU AND TURN LANES
(PREFORMED THERMOPLASTIC PAVEMENT MARKING, 24 IN WHITE, AT 20' CENTERS WITH OUTSIDE 4 IN. WHITE CLASS 1 PAVEMENT MARKING PAINT,18-MIL, TYPE P BEADS)

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"ONLY" (WHITE THERMOPLASTIC)

YIELD BAR (WHITE THERMOPLASTIC)

BICYCLE SHARED LANE MARKING

SY = SOLID YELLOW LINE

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NO PARKING PAVEMENT MARKINGS
(PREFORMED THERMOPLASTIC PAVEMENT MARKING, 24 IN. WHITE AT 45° SKEW AND 20' CENTERS WITH INSIDE 4 IN. WHITE CLASS 1 PAVEMENT MARKING PAINT, 18-MIL, TYPE P BEADS)

PREFORMED THERMOPLASTIC PAVEMENT MARKING, RIGHT ARROW

PREFORMED THERMOPLASTIC PAVEMENT MARKING, LEFT ARROW

STOP BARS
(PREFORMED THERMOPLASTIC PAVEMENT MARKING, 24 IN, WHITE)

CONTINENTAL CROSSWALKS
(PREFORMED THERMOPLASTIC PAVEMENT, 30 IN. WHITE FOR USE AT SIGNALIZED INTERSECTIONS AND MID-BLOCK CROSSINGS)
NOTE: WIDTH OF CONTINENTAL CROSSWALKS ARE MARKED ON PLANS

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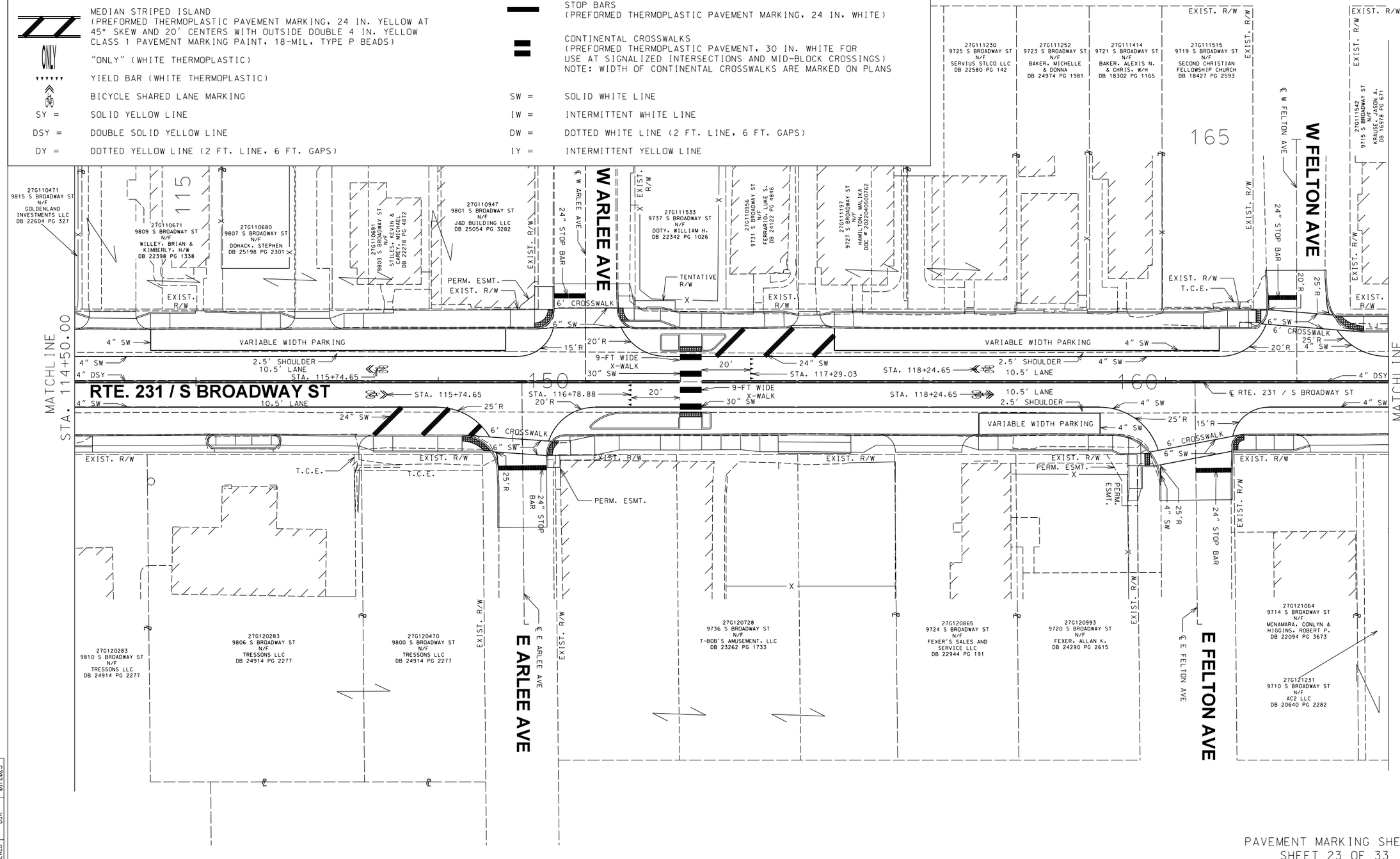
IW = INTERMITTENT WHITE LINE

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SCALE
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PAVEMENT MARKING SHEETS
SHEET 23 OF 33

LAYOUT	NS	01/2025
DRAWN	SMC	01/2025
REVIEWED	DJK	01/2025

STATE OF MISSOURI
DENNIS J. KOSCIELSKI
NUMBER PE-2005000712
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED
7/25/2025

ROUTE	STATE
231	MO
DISTRICT	SHEET NO.
SL	440

COUNTY
ST. LOUIS

JOB NO.
J6S3631

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DATE	DESCRIPTION

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Professional Engineer 001632
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314.770.0467

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PAVEMENT MARKING LEGEND:

BIKE LANE
(INSIDE 4 IN. SOLID WHITE CLASS 1 PAVEMENT MARKING PAINT, TYPE P BEADS WITH PREFORMED THERMOPLASTIC PAVEMENT MARKING BIKE SYMBOL AND PREFORMED THERMOPLASTIC PAVEMENT MARKING STRAIGHT ARROW)

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ONLY
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YIELD BAR (WHITE THERMOPLASTIC)

BICYCLE SHARED LANE MARKING

NO PARKING PAVEMENT MARKINGS
(PREFORMED THERMOPLASTIC PAVEMENT MARKING, 24 IN. WHITE AT 45° SKEW AND 20' CENTERS WITH INSIDE 4 IN. WHITE CLASS 1 PAVEMENT MARKING PAINT, 18-MIL, TYPE P BEADS)

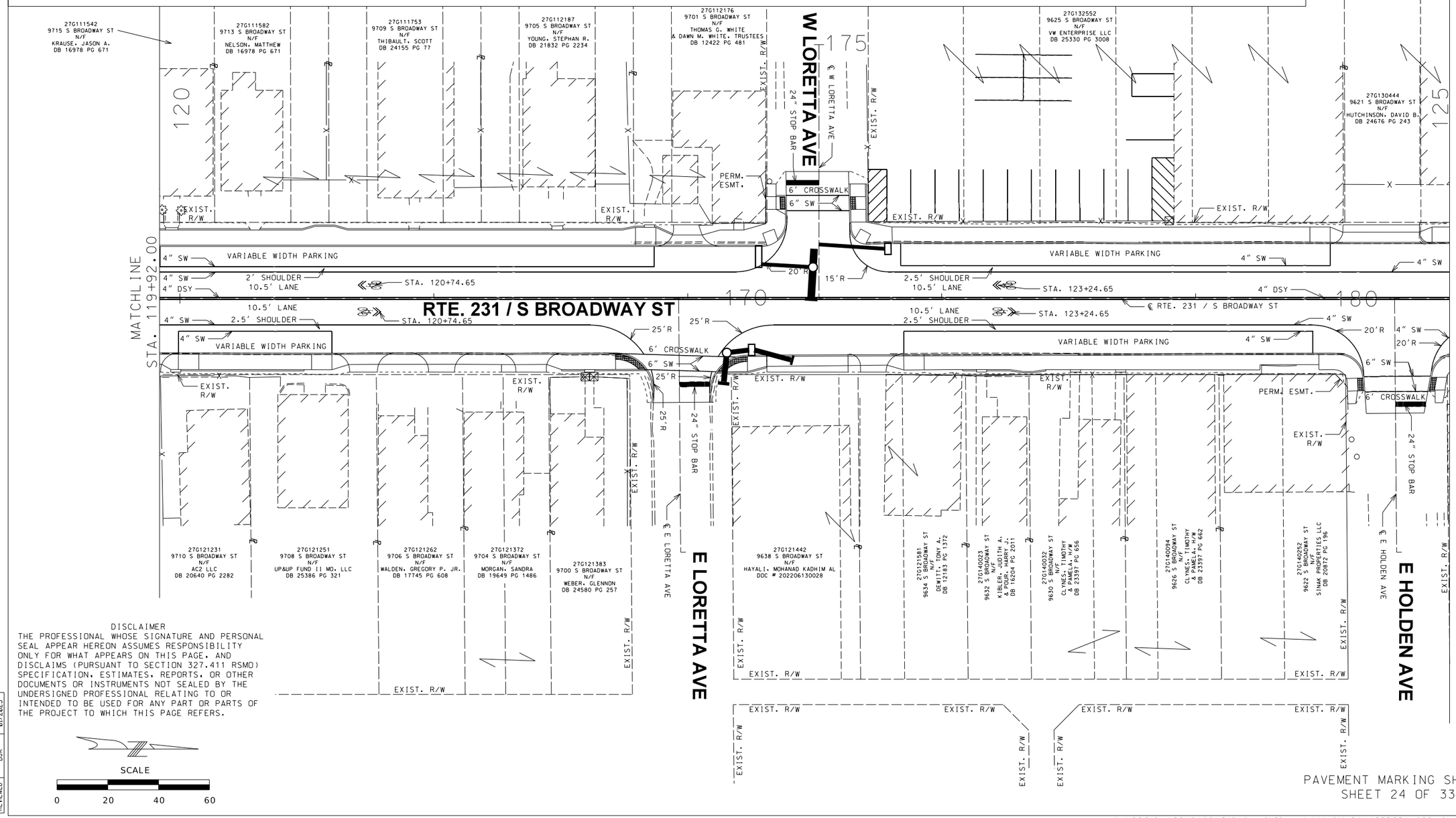
PREFORMED THERMOPLASTIC PAVEMENT MARKING, RIGHT ARROW

PREFORMED THERMOPLASTIC PAVEMENT MARKING, LEFT ARROW

STOP BARS
(PREFORMED THERMOPLASTIC PAVEMENT MARKING, 24 IN. WHITE)

CONTINENTAL CROSSWALKS
(PREFORMED THERMOPLASTIC PAVEMENT, 30 IN. WHITE FOR USE AT SIGNALIZED INTERSECTIONS AND MID-BLOCK CROSSINGS)
NOTE: WIDTH OF CONTINENTAL CROSSWALKS ARE MARKED ON PLANS

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SW =	SOLID WHITE LINE
IW =	INTERMITTENT WHITE LINE
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DRAWN	SMC	01/2025	
REVIEWED	DJK	01/2025	

PAVEMENT MARKING SHEETS
SHEET 24 OF 33

STATE OF MISSOURI
DENNIS J. KOSCIELSKI
NUMBER PE-2005000712
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED 7/25/2025
ROUTE 231 | STATE MO
DISTRICT SL | SHEET NO. 441
COUNTY ST. LOUIS
JOB NO. J6S3631
CONTRACT ID.
PROJECT NO.
BRIDGE NO.

DATE	DESCRIPTION

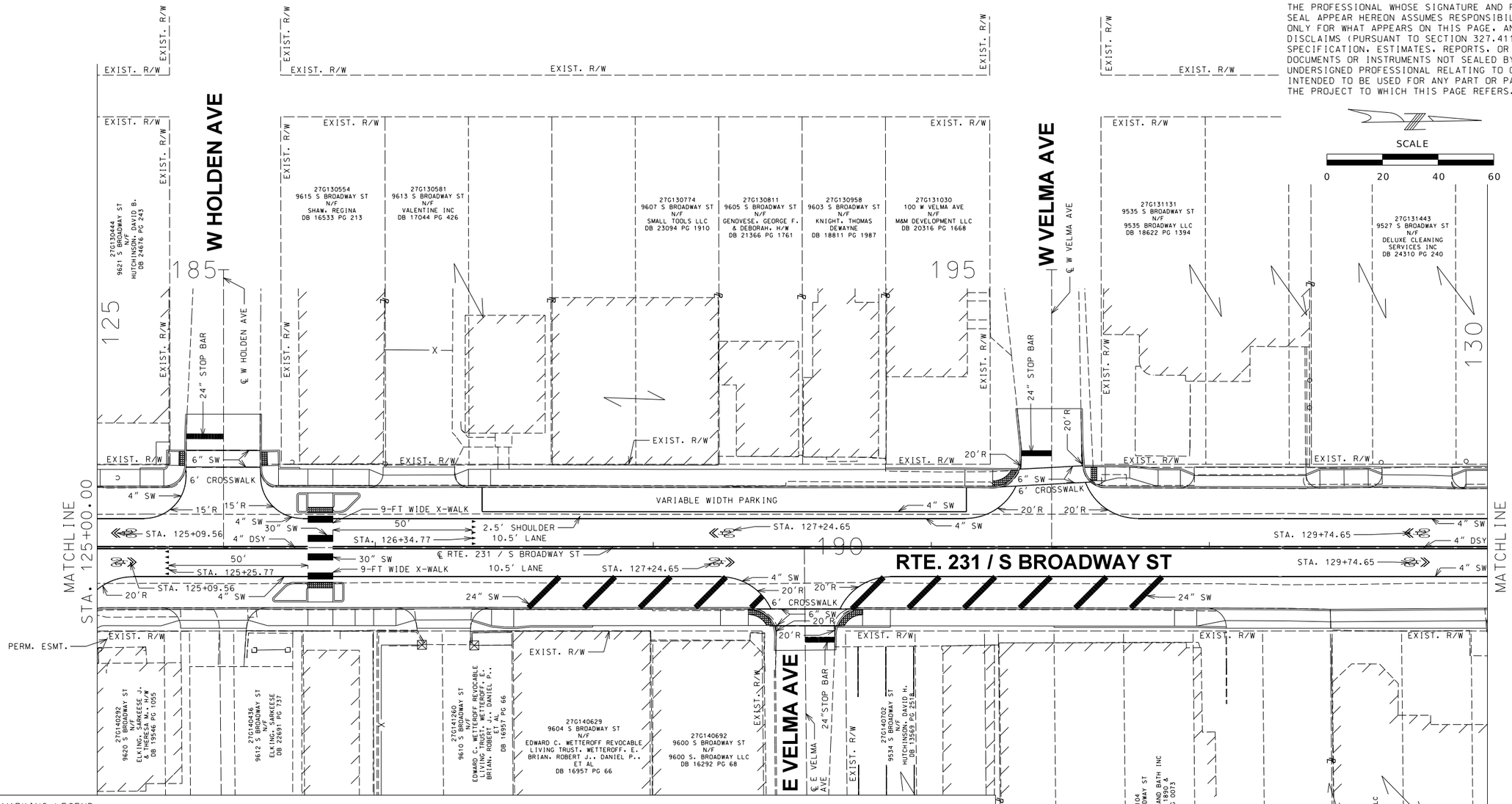
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SCALE 0 20 40 60

PAVEMENT MARKING LEGEND:

- BIKE LANE (INSIDE 4 IN. SOLID WHITE CLASS 1 PAVEMENT MARKING PAINT, TYPE P BEADS WITH PREFORMED THERMOPLASTIC PAVEMENT MARKING BIKE SYMBOL AND PREFORMED THERMOPLASTIC PAVEMENT MARKING STRAIGHT ARROW)
- STRIPED ISLAND BETWEEN THRU AND TURN LANES (PREFORMED THERMOPLASTIC PAVEMENT MARKING, 24 IN WHITE, AT 20' CENTERS WITH OUTSIDE 4 IN. WHITE CLASS 1 PAVEMENT MARKING PAINT,18-MIL, TYPE P BEADS)
- MEDIAN STRIPED ISLAND (PREFORMED THERMOPLASTIC PAVEMENT MARKING, 24 IN. YELLOW AT 45° SKEW AND 20' CENTERS WITH OUTSIDE DOUBLE 4 IN. YELLOW CLASS 1 PAVEMENT MARKING PAINT, 18-MIL, TYPE P BEADS)
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- YIELD BAR (WHITE THERMOPLASTIC)
- BICYCLE SHARED LANE MARKING
- NO PARKING PAVEMENT MARKINGS (PREFORMED THERMOPLASTIC PAVEMENT MARKING, 24 IN. WHITE AT 45° SKEW AND 20' CENTERS WITH INSIDE 4 IN. WHITE CLASS 1 PAVEMENT MARKING PAINT, 18-MIL, TYPE P BEADS)
- PREFORMED THERMOPLASTIC PAVEMENT MARKING, RIGHT ARROW
- PREFORMED THERMOPLASTIC PAVEMENT MARKING, LEFT ARROW
- STOP BARS (PREFORMED THERMOPLASTIC PAVEMENT MARKING, 24 IN, WHITE)
- CONTINENTAL CROSSWALKS (PREFORMED THERMOPLASTIC PAVEMENT, 30 IN. WHITE FOR USE AT SIGNALIZED INTERSECTIONS AND MID-BLOCK CROSSINGS) NOTE: WIDTH OF CONTINENTAL CROSSWALKS ARE MARKED ON PLANS

SY =	SOLID YELLOW LINE	SW = SOLID WHITE LINE
DSY =	DOUBLE SOLID YELLOW LINE	IW = INTERMITTENT WHITE LINE
DY =	DOTTED YELLOW LINE (2 FT. LINE, 6 FT. GAPS)	DW = DOTTED WHITE LINE (2 FT. LINE, 6 FT. GAPS)
		IY = INTERMITTENT YELLOW LINE

LAYOUT	NS	01/2025
DRAWN	SMC	01/2025
REVIEWED	DJK	01/2025

PAVEMENT MARKING SHEETS
SHEET 25 OF 33

STATE OF MISSOURI DENNIS J. KOSCIELSKI NUMBER PE-2005000712 PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED 7/25/2025

ROUTE	STATE
231	MO
DISTRICT	SHEET NO.
SL	442

COUNTY ST. LOUIS

JOB NO. J6S3631

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION	DATE

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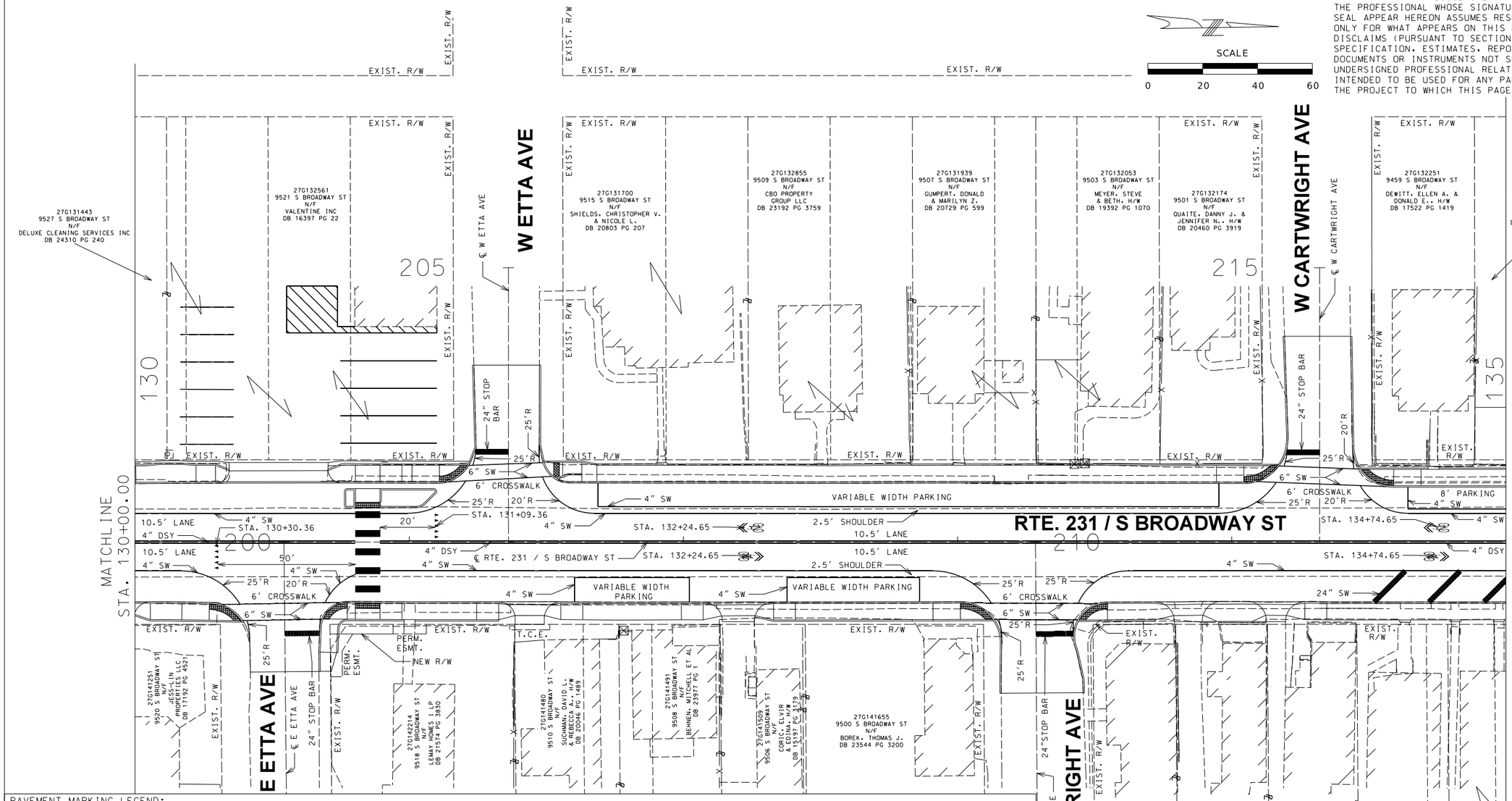
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SCALE
0 20 40 60



PAVEMENT MARKING LEGEND:

BIKE LANE
(INSIDE 4 IN. SOLID WHITE CLASS 1 PAVEMENT MARKING PAINT, TYPE P BEADS WITH PREFORMED THERMOPLASTIC PAVEMENT MARKING BIKE SYMBOL AND PREFORMED THERMOPLASTIC PAVEMENT MARKING STRAIGHT ARROW)

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"ONLY" (WHITE THERMOPLASTIC)

YIELD BAR (WHITE THERMOPLASTIC)

BICYCLE SHARED LANE MARKING

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DSY = DOUBLE SOLID YELLOW LINE

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NO PARKING PAVEMENT MARKINGS
(PREFORMED THERMOPLASTIC PAVEMENT MARKING, 24 IN. WHITE AT 45° SKEW AND 20' CENTERS WITH INSIDE 4 IN. WHITE CLASS 1 PAVEMENT MARKING PAINT, 18-MIL, TYPE P BEADS)

PREFORMED THERMOPLASTIC PAVEMENT MARKING, RIGHT ARROW

PREFORMED THERMOPLASTIC PAVEMENT MARKING, LEFT ARROW

STOP BARS
(PREFORMED THERMOPLASTIC PAVEMENT MARKING, 24 IN. WHITE)

CONTINENTAL CROSSWALKS
(PREFORMED THERMOPLASTIC PAVEMENT, 30 IN. WHITE FOR USE AT SIGNALIZED INTERSECTIONS AND MID-BLOCK CROSSINGS)
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DW = DOTTED WHITE LINE (2 FT. LINE, 6 FT. GAPS)

IY = INTERMITTENT YELLOW LINE

LAYOUT	NS	01/2025
DRAWN	SMC	01/2025
REVIEWED	DJK	01/2025

PAVEMENT MARKING SHEETS
SHEET 26 OF 33

STATE OF MISSOURI
DENNIS J. KOSCIELSKI
NUMBER PE-2005000712
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED 7/25/2025

ROUTE	STATE
231	MO
DISTRICT	SHEET NO.
SL	443

COUNTY ST. LOUIS
JOB NO. J6S3631
CONTRACT ID.
PROJECT NO.
BRIDGE NO.

DESCRIPTION	DATE

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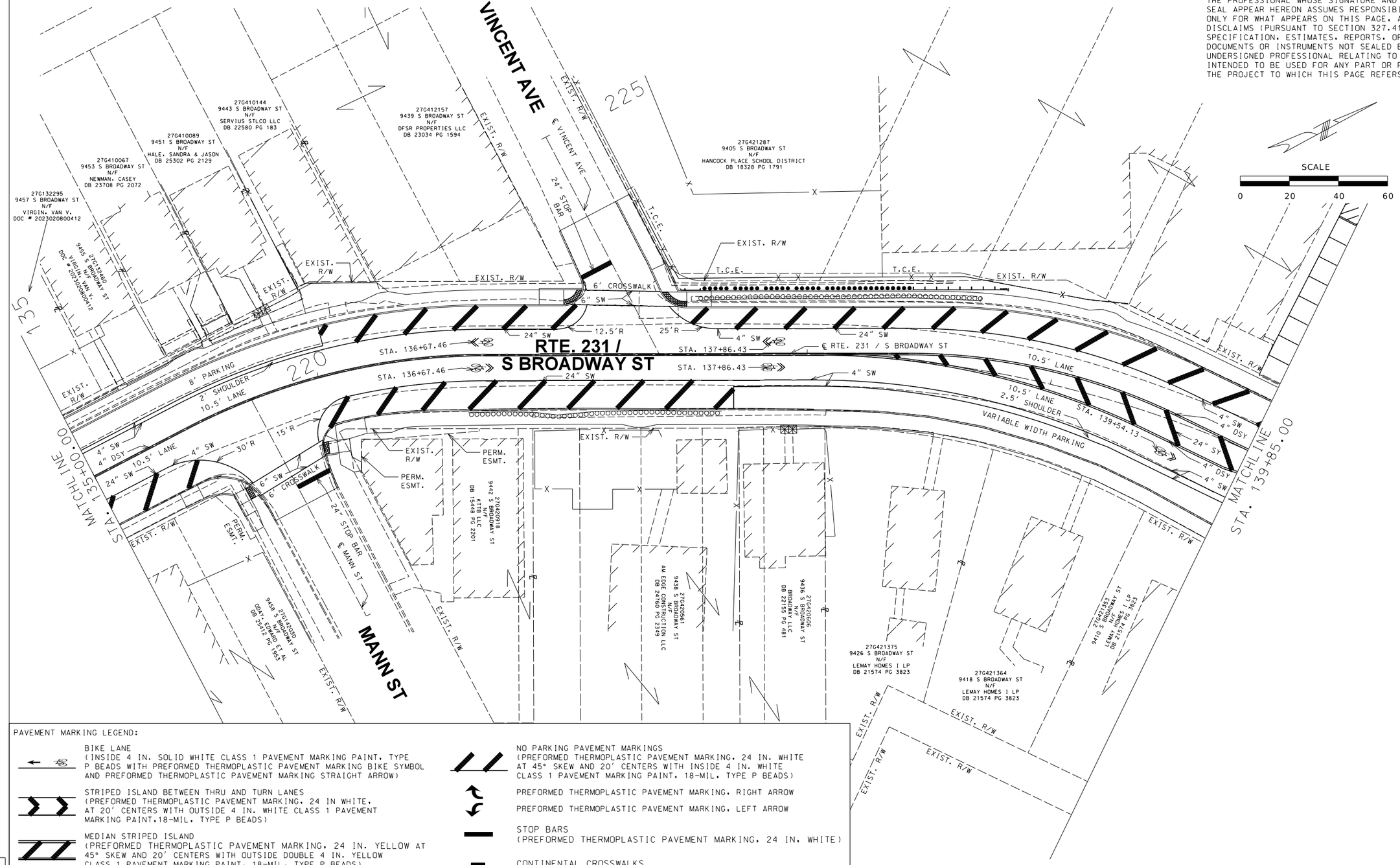
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DRAWN	SMC	01/2025
REVIEWED	DJK	01/2025

PAVEMENT MARKING SHEETS
SHEET 27 OF 33

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STATE OF MISSOURI
DENNIS J. KOSCIELSKI
NUMBER PE-2005000712
PROFESSIONAL ENGINEER

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ROUTE	STATE
231	MO
DISTRICT	SHEET NO.
SL	444

COUNTY: ST. LOUIS
JOB NO.: J6S3631
CONTRACT ID.:
PROJECT NO.:
BRIDGE NO.:

DESCRIPTION	DATE

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PAVEMENT MARKING LEGEND:

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YIELD BAR (WHITE THERMOPLASTIC)

NO PARKING PAVEMENT MARKINGS
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PREFORMED THERMOPLASTIC PAVEMENT MARKING, RIGHT ARROW

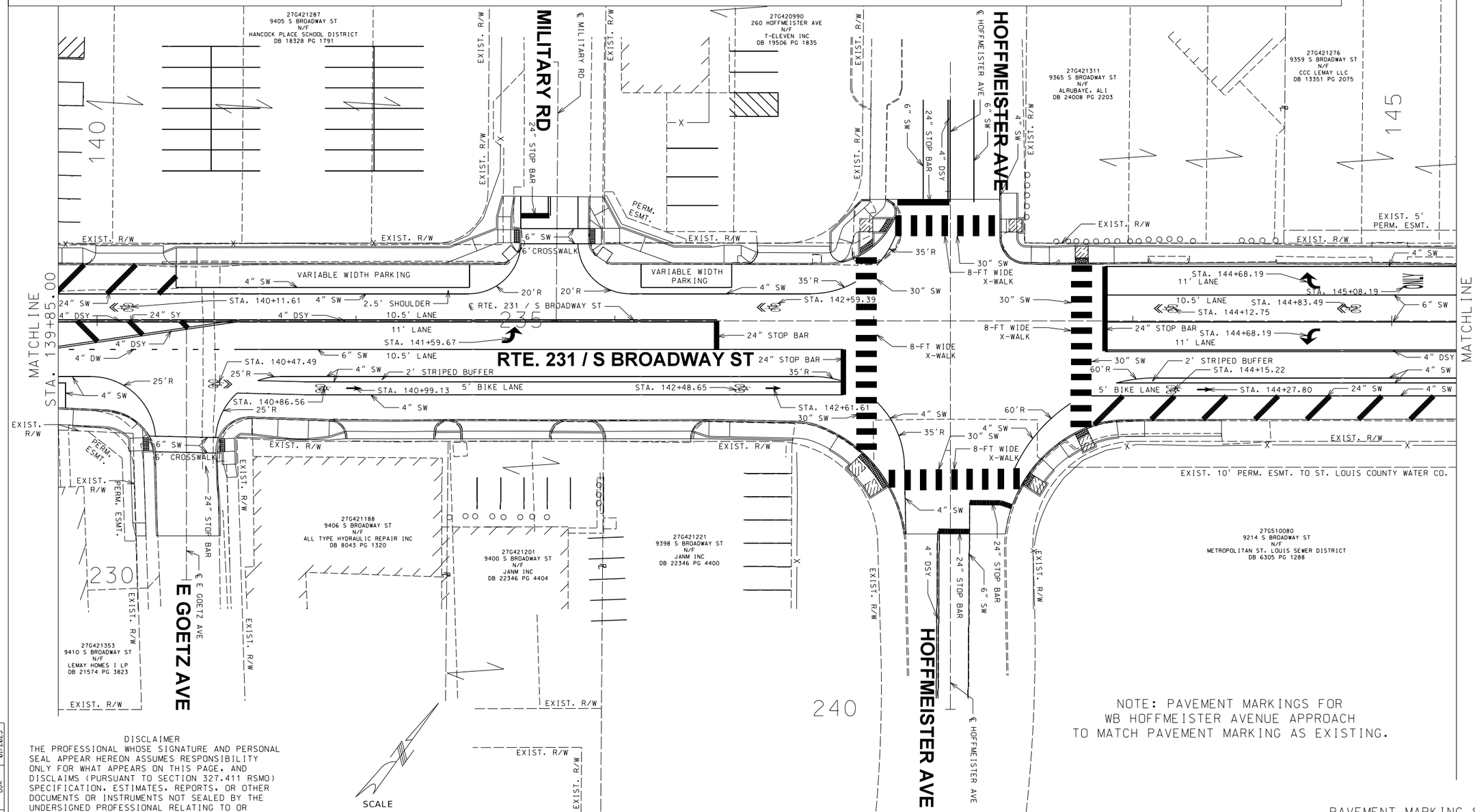
PREFORMED THERMOPLASTIC PAVEMENT MARKING, LEFT ARROW

STOP BARS
(PREFORMED THERMOPLASTIC PAVEMENT MARKING, 24 IN, WHITE)

CONTINENTAL CROSSWALKS
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BICYCLE SHARED LANE MARKING



NOTE: PAVEMENT MARKINGS FOR WB HOFFMEISTER AVENUE APPROACH TO MATCH PAVEMENT MARKING AS EXISTING.

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DRAWN	SMC	01/2025
REVIEWED	DJK	01/2025

PAVEMENT MARKING SHEETS
SHEET 28 OF 33

STATE OF MISSOURI
DENNIS J. KOSCIELSKI
NUMBER PE-2005000712
PROFESSIONAL ENGINEER

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DATE PREPARED
7/25/2025

ROUTE	STATE
231	MO
DISTRICT	SHEET NO.
SL	445

COUNTY
ST. LOUIS

JOB NO.
J6S3631

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION	DATE

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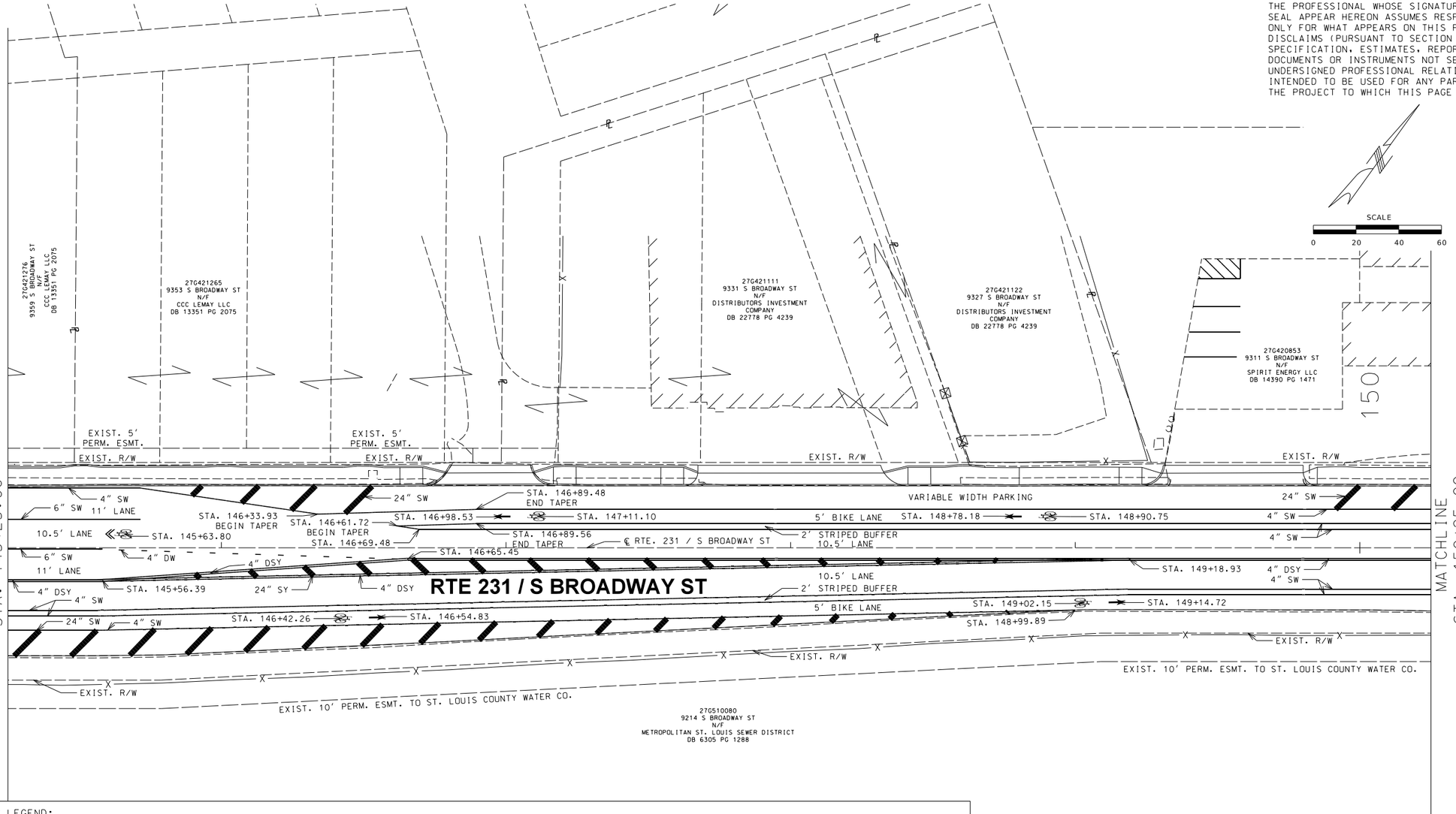
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LAYOUT	NS	01/2025
DRAWN	SMC	01/2025
REVIEWED	DJK	01/2025

PAVEMENT MARKING SHEETS
SHEET 29 OF 33

STATE OF MISSOURI
DENNIS J KOSCIELSKI
NUMBER PE-2005000712
PROFESSIONAL ENGINEER

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ROUTE: 231 | STATE: MO
DISTRICT: SL | SHEET NO.: 446
COUNTY: ST. LOUIS
JOB NO.: J6S3631
CONTRACT ID.:
PROJECT NO.:
BRIDGE NO.:

DESCRIPTION	DATE

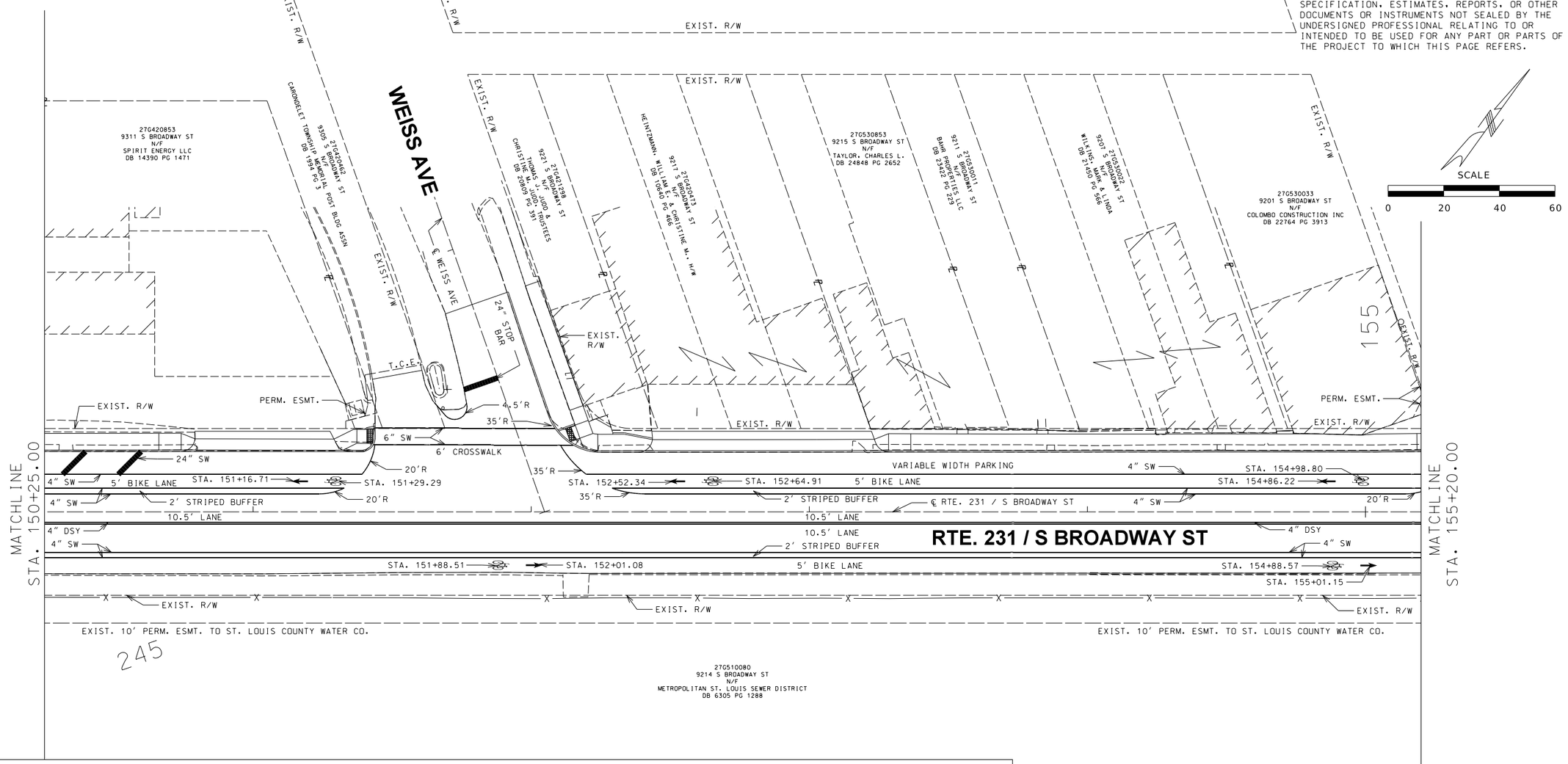
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LAYOUT	NS	01/2025
DRAWN	SMC	01/2025
REVIEWED	DJK	01/2025

PAVEMENT MARKING SHEETS
SHEET 30 OF 33

STATE OF MISSOURI
DENNIS J. KOSCIELSKI
NUMBER PE-2005000712
PROFESSIONAL ENGINEER

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DATE PREPARED
7/25/2025

ROUTE	STATE
231	MO
DISTRICT	SHEET NO.
SL	447

COUNTY
ST. LOUIS

JOB NO.
J6S3631

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION	DATE

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SCALE
0 20 40 60

27G530066
9135 S BROADWAY ST
N/F
BROOKS, KENNETH R. JR.
DB 22054 PG 1354

27G530055
9137 S BROADWAY ST
N/F
BROOKS, KENNETH R. JR.
DB 22054 PG 1354

27G530077
9133 S BROADWAY ST
N/F
BENNETT, DENISE
DOC # 202106010203

27G530091
9129 S BROADWAY ST
N/F
SENSENEY, JEFFERSON R.
DB 24219 PG 166

27G530651
9101 S BROADWAY ST
N/F
SCHOOL DISTRICT OF HANCOCK PLACE BUILDING CORPORATION
DB 10025 PG 1493

27G510080
9214 S BROADWAY ST
N/F
METROPOLITAN ST. LOUIS SEWER DISTRICT
DB 6305 PG 1288

27G520023
8900 S BROADWAY ST
N/F
METROPOLITAN ST. LOUIS SEWER DISTRICT
DB 18421 PG 1641

HORN AVE
℄ HORN AVE
24" STOP BAR
PERM. ESMT.
6' CROSSWALK
6" SW
EXIST. R/W
PERM. ESMT.
EXIST. R/W
4" SW
20'R
5' BIKE LANE
4" SW
10.5' LANE
4" DSY
30'R
30'R
STA. 156+04.66
STA. 156+17.23
4" SW
VARIABLE WIDTH PARKING
5' BIKE LANE
4" SW
4" DSY
2' STRIPED BUFFER
10.5' LANE
4" SW
10.5' LANE
2' STRIPED BUFFER
STA. 157+28.57
STA. 157+52.29
VARIABLE WIDTH STRIPED BUFFER
5' BIKE LANE
STA. 157+41.14
EXIST. R/W
EXIST. 10' PERM. ESMT. TO ST. LOUIS COUNTY WATER CO.
EXIST. R/W
T.C.E.
EXIST. R/W
EXIST. R/W
STA. 158+54.38
STA. 158+67.10
STA. 158+61.35
STA. 159+68.14
STA. 159+80.72
4" SW
4" SW
4" DSY
4" SW
2' STRIPED BUFFER
EXIST. R/W
EXIST. R/W
EXIST. 10' PERM. ESMT. TO ST. LOUIS COUNTY WATER CO.
EXIST. 20' PERM. U-E. ESMT.
MATCHLINE STA. 155+20.00
MATCHLINE STA. 160+60.00
250
160
℄ RTE. 231 / S BROADWAY ST
RTE. 231 / S BROADWAY ST

PAVEMENT MARKING LEGEND:

BIKE LANE
(INSIDE 4 IN. SOLID WHITE CLASS 1 PAVEMENT MARKING PAINT, TYPE P BEADS WITH PREFORMED THERMOPLASTIC PAVEMENT MARKING BIKE SYMBOL AND PREFORMED THERMOPLASTIC PAVEMENT MARKING STRAIGHT ARROW)

STRIPED ISLAND BETWEEN THRU AND TURN LANES
(PREFORMED THERMOPLASTIC PAVEMENT MARKING, 24 IN WHITE, AT 20' CENTERS WITH OUTSIDE 4 IN. WHITE CLASS 1 PAVEMENT MARKING PAINT,18-MIL, TYPE P BEADS)

MEDIAN STRIPED ISLAND
(PREFORMED THERMOPLASTIC PAVEMENT MARKING, 24 IN. YELLOW AT 45° SKEW AND 20' CENTERS WITH OUTSIDE DOUBLE 4 IN. YELLOW CLASS 1 PAVEMENT MARKING PAINT, 18-MIL, TYPE P BEADS)

ONLY "ONLY" (WHITE THERMOPLASTIC)

YIELD BAR (WHITE THERMOPLASTIC)

BICYCLE SHARED LANE MARKING

SY = SOLID YELLOW LINE

DSY = DOUBLE SOLID YELLOW LINE

DY = DOTTED YELLOW LINE (2 FT. LINE, 6 FT. GAPS)

NO PARKING PAVEMENT MARKINGS
(PREFORMED THERMOPLASTIC PAVEMENT MARKING, 24 IN. WHITE AT 45° SKEW AND 20' CENTERS WITH INSIDE 4 IN. WHITE CLASS 1 PAVEMENT MARKING PAINT, 18-MIL, TYPE P BEADS)

PREFORMED THERMOPLASTIC PAVEMENT MARKING, RIGHT ARROW

PREFORMED THERMOPLASTIC PAVEMENT MARKING, LEFT ARROW

STOP BARS
(PREFORMED THERMOPLASTIC PAVEMENT MARKING, 24 IN, WHITE)

CONTINENTAL CROSSWALKS
(PREFORMED THERMOPLASTIC PAVEMENT, 30 IN. WHITE FOR USE AT SIGNALIZED INTERSECTIONS AND MID-BLOCK CROSSINGS)
NOTE: WIDTH OF CONTINENTAL CROSSWALKS ARE MARKED ON PLANS

SW = SOLID WHITE LINE

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DW = DOTTED WHITE LINE (2 FT. LINE, 6 FT. GAPS)

IY = INTERMITTENT YELLOW LINE

LAYOUT	NS	01/2025
DRAWN	SMC	01/2025
REVIEWED	DJK	01/2025

PAVEMENT MARKING SHEETS
SHEET 31 OF 33

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STATE OF MISSOURI
DENNIS J. KOSCIELSKI
NUMBER PE-2005000712
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED
7/25/2025

ROUTE	STATE
231	MO
DISTRICT	SHEET NO.
SL	448

COUNTY
ST. LOUIS

JOB NO.
J6S3631

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION	DATE

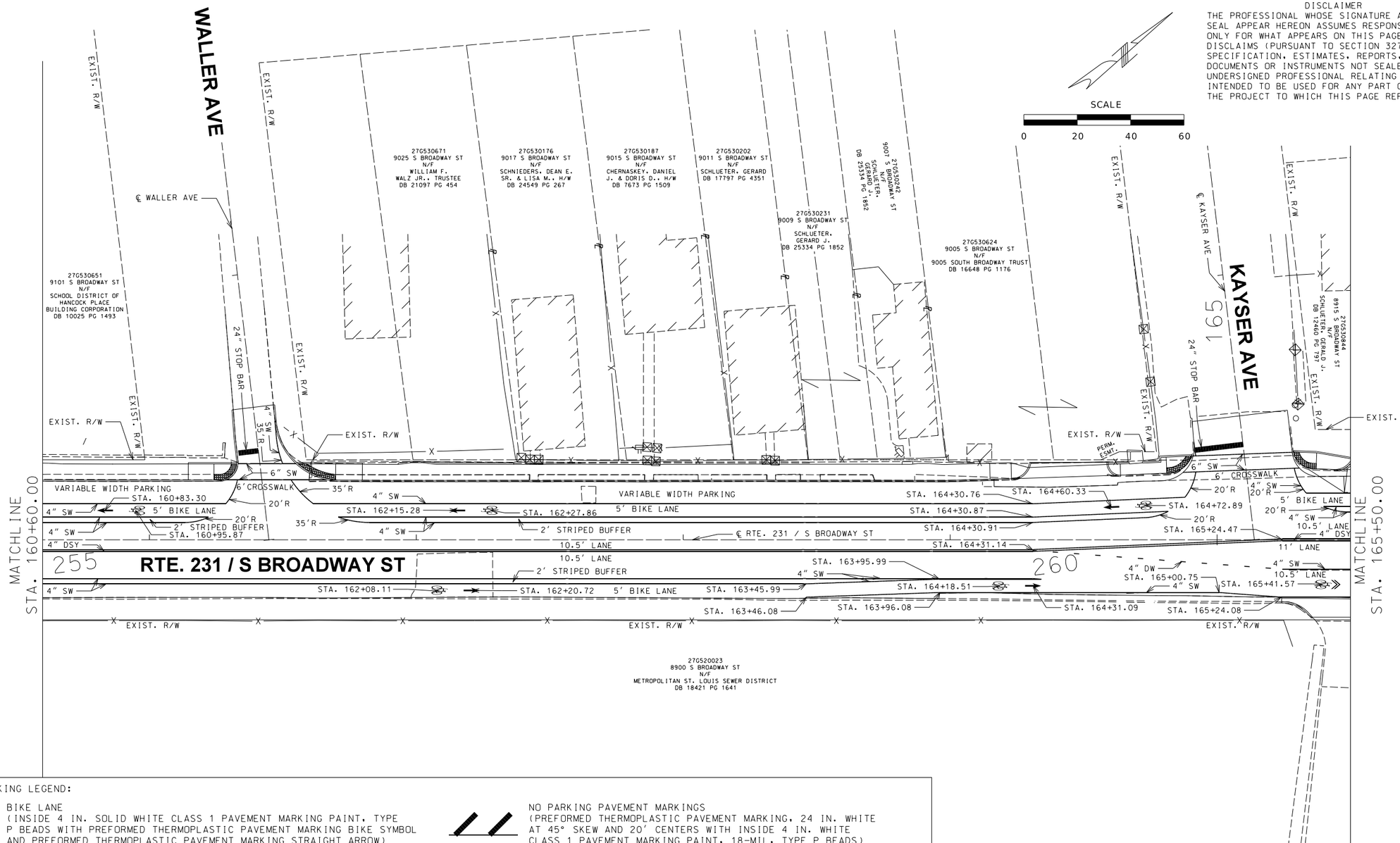
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PAVEMENT MARKING LEGEND:

BIKE LANE
(INSIDE 4 IN. SOLID WHITE CLASS 1 PAVEMENT MARKING PAINT, TYPE P BEADS WITH PREFORMED THERMOPLASTIC PAVEMENT MARKING BIKE SYMBOL AND PREFORMED THERMOPLASTIC PAVEMENT MARKING STRAIGHT ARROW)

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LAYOUT	NS	01/2025
DRAWN	SMC	01/2025
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PAVEMENT MARKING SHEETS
SHEET 32 OF 33

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STATE OF MISSOURI
DENNIS J. KOSCIELSKI
NUMBER PE-2005000712
PROFESSIONAL ENGINEER

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7/25/2025

ROUTE	STATE
231	MO
DISTRICT	SHEET NO.
SL	449

COUNTY
ST. LOUIS

JOB NO.
J6S3631

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION	DATE

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PAVEMENT MARKING LEGEND:

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(PREFORMED THERMOPLASTIC PAVEMENT MARKING, 24 IN, WHITE)

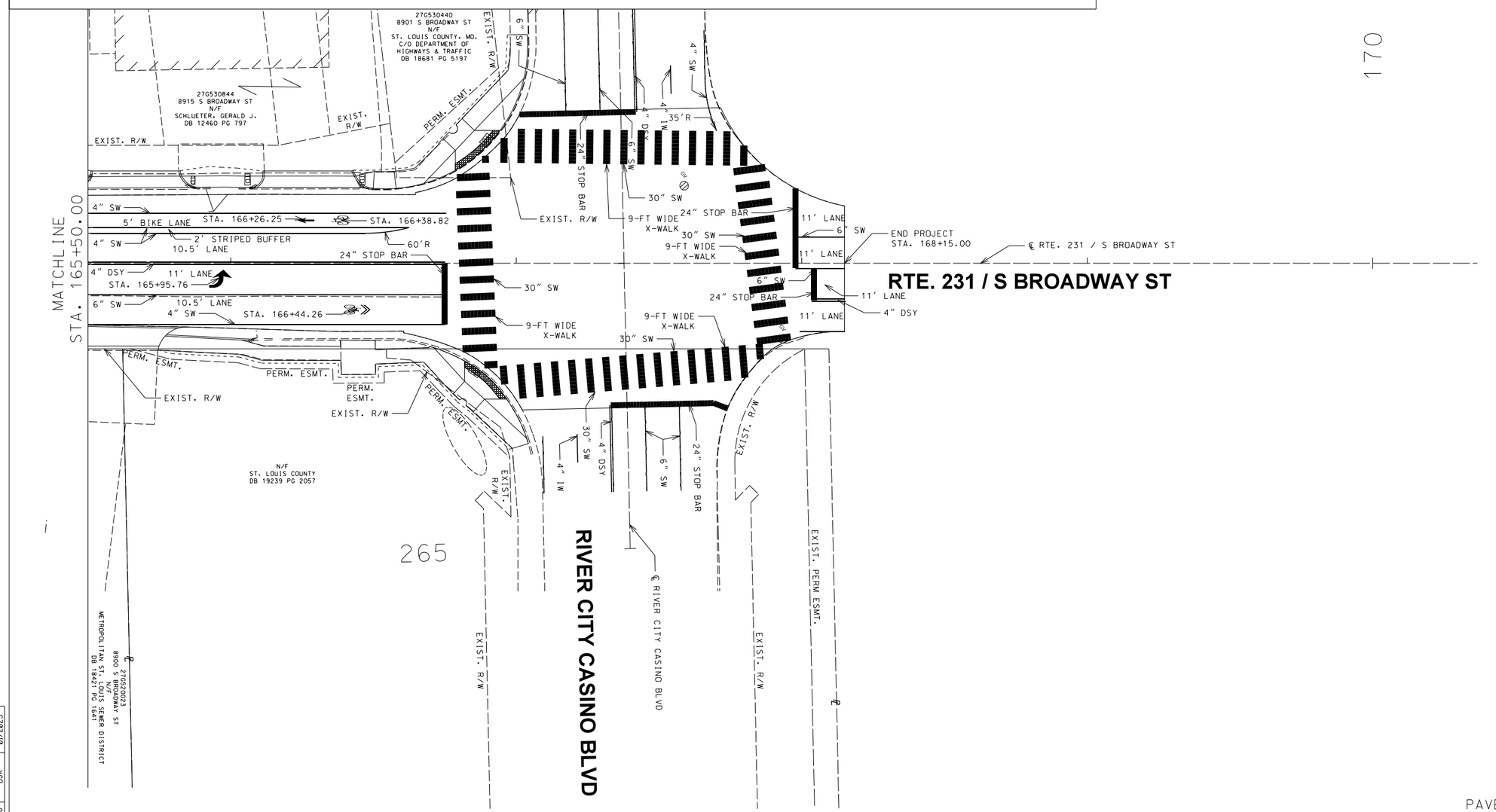
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STATE OF MISSOURI
DENNIS J. KOSCIELSKI
NUMBER PE-2005000712
PROFESSIONAL ENGINEER

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DATE PREPARED: 7/25/2025
ROUTE: 231 | STATE: MO
DISTRICT: SL | SHEET NO.: 450
COUNTY: ST. LOUIS
JOB NO.: J6S3631
CONTRACT ID.:
PROJECT NO.:
BRIDGE NO.:

DATE	DESCRIPTION

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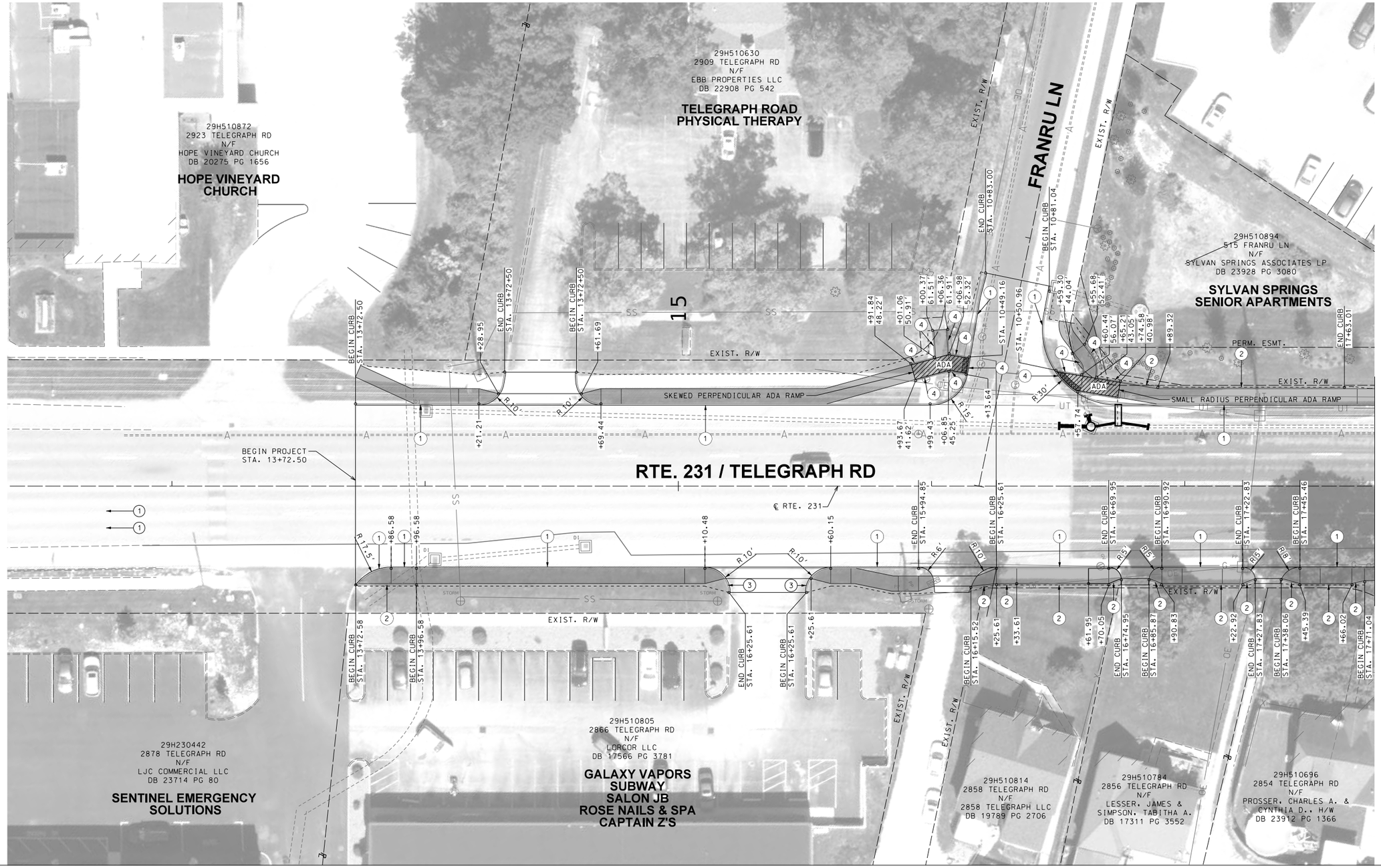
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PAVEMENT MARKING SHEETS
SHEET 33 OF 33

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SPECIAL SHEET LEGEND

▨	ADA RAMP
①	CONCRETE CURB (6 IN HEIGHT AND UNDER) TYPE S
②	CONCRETE CURB (OVER 6 IN HEIGHT) TYPE S
③	DRIVEWAY CURB
④	ADA CURB

NOTES:

1. SEE SUMMARY OF QUANTITIES FOR LOCATIONS OF CURBS
2. MEDIAN STATIONING AND OFFSETS ARE PROVIDED IN TABLE 1 THROUGH TABLES 15
3. FENCING AND GATE STATIONING AND OFFSETS ARE ARE PROVIDED IN TABLE 16 THROUGH TABLE 20

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SPECIAL CURB DESIGN SHEETS
SHEET 1 OF 32

LAYOUT	JAM	11/2024
DRAWN	JAM	11/2024
REVIEWED		

STATE OF MISSOURI
DENNIS J. KOSCIELSKI
NUMBER PE-2005000712
PROFESSIONAL ENGINEER

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ROUTE	231
STATE	MO
DISTRICT	SL
SHEET NO.	451
COUNTY	ST. LOUIS
JOB NO.	J6S3631
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

DESCRIPTION	DATE

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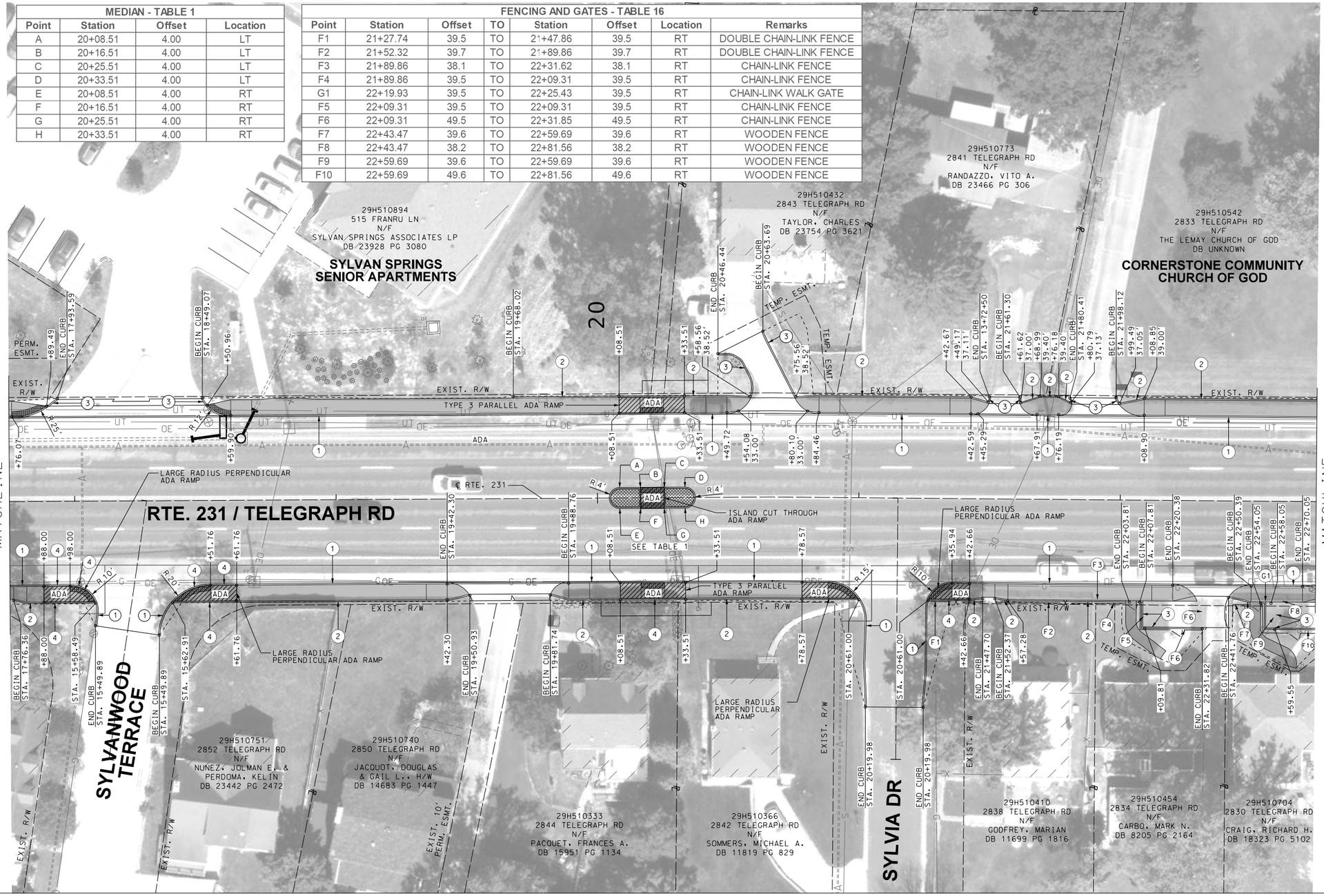
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MEDIAN - TABLE 1			
Point	Station	Offset	Location
A	20+08.51	4.00	LT
B	20+16.51	4.00	LT
C	20+25.51	4.00	LT
D	20+33.51	4.00	LT
E	20+08.51	4.00	RT
F	20+16.51	4.00	RT
G	20+25.51	4.00	RT
H	20+33.51	4.00	RT

FENCING AND GATES - TABLE 16							
Point	Station	Offset	TO	Station	Offset	Location	Remarks
F1	21+27.74	39.5	TO	21+47.86	39.5	RT	DOUBLE CHAIN-LINK FENCE
F2	21+52.32	39.7	TO	21+89.86	39.7	RT	DOUBLE CHAIN-LINK FENCE
F3	21+89.86	38.1	TO	22+31.62	38.1	RT	CHAIN-LINK FENCE
F4	21+89.86	39.5	TO	22+09.31	39.5	RT	CHAIN-LINK FENCE
G1	22+19.93	39.5	TO	22+25.43	39.5	RT	CHAIN-LINK WALK GATE
F5	22+09.31	39.5	TO	22+09.31	39.5	RT	CHAIN-LINK FENCE
F6	22+09.31	49.5	TO	22+31.85	49.5	RT	CHAIN-LINK FENCE
F7	22+43.47	39.6	TO	22+59.69	39.6	RT	WOODEN FENCE
F8	22+43.47	38.2	TO	22+81.56	38.2	RT	WOODEN FENCE
F9	22+59.69	39.6	TO	22+59.69	39.6	RT	WOODEN FENCE
F10	22+59.69	49.6	TO	22+81.56	49.6	RT	WOODEN FENCE



SPECIAL SHEET LEGEND

- ADA RAMP
- (1) CONCRETE CURB (6 IN HEIGHT AND UNDER) TYPE S
- (2) CONCRETE CURB (OVER 6 IN HEIGHT) TYPE S
- (3) DRIVEWAY CURB
- (4) ADA CURB

NOTES:

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SPECIAL CURB DESIGN SHEETS
SHEET 2 OF 32

LAYOUT	JAM	11/2024
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DENNIS J. KOSCIELSKI
NUMBER PE-2005000712
PROFESSIONAL ENGINEER

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ROUTE	STATE
231	MO
DISTRICT	SHEET NO.
SL	452

COUNTY
ST. LOUIS

JOB NO.
J6S3631

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION	DATE

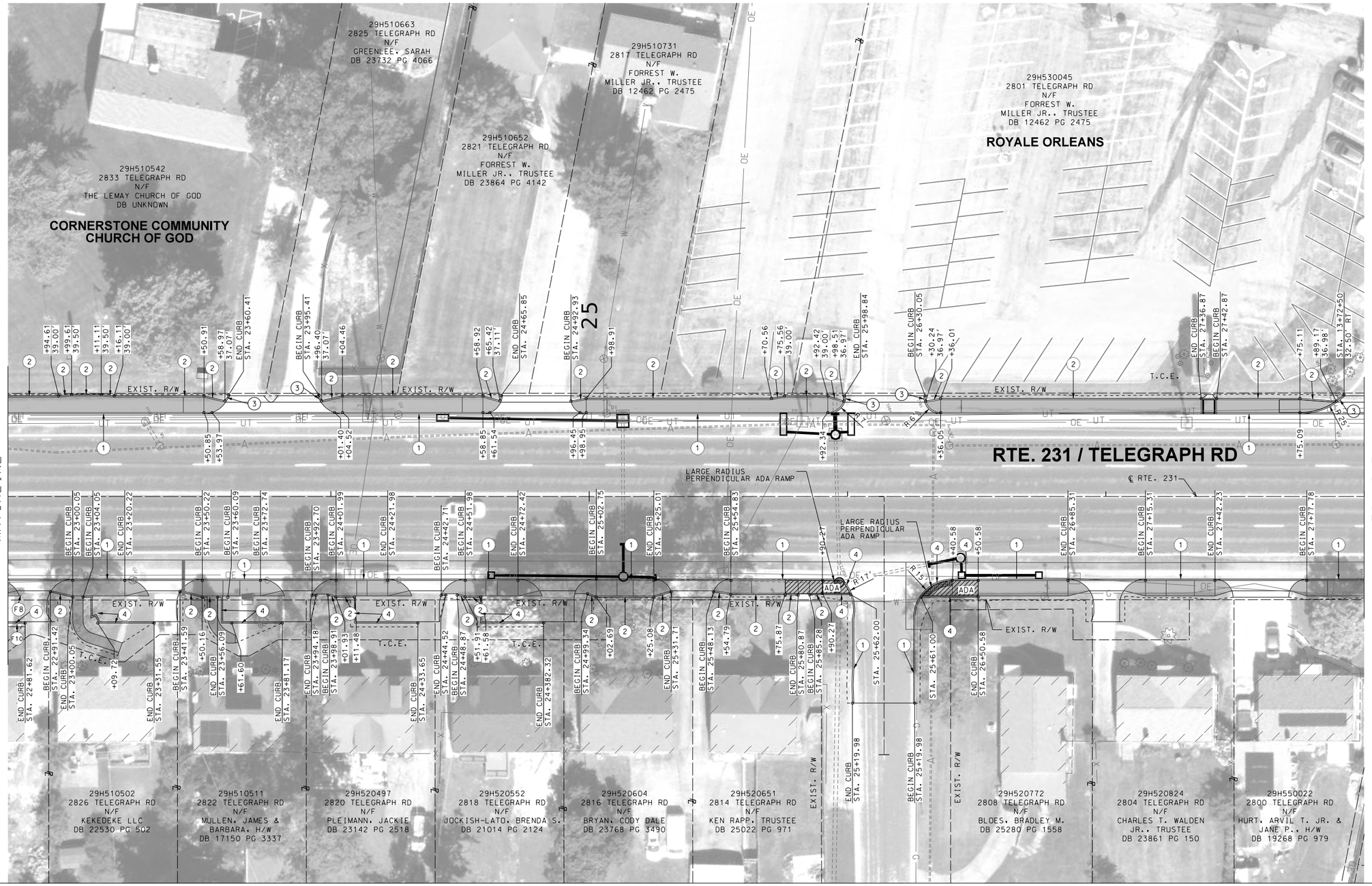
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SPECIAL SHEET LEGEND

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- (1) CONCRETE CURB (6 IN HEIGHT AND UNDER) TYPE S
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SPECIAL CURB DESIGN SHEETS
SHEET 3 OF 32

LAYOUT	JAM	11/2024
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STATE OF MISSOURI
DENNIS J. KOSCIELSKI
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DATE PREPARED
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ROUTE	STATE
231	MO
DISTRICT	SHEET NO.
SL	453

COUNTY
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JOB NO.
J6S3631

CONTRACT ID.

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DESCRIPTION	DATE

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SPECIAL CURB DESIGN SHEETS
SHEET 4 OF 32

LAYOUT	JAM	11/2024
DRAWN	JAM	11/2024
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STATE OF MISSOURI
DENNIS J. KOSCIELSKI
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7/25/2025

ROUTE	STATE
231	MO
DISTRICT	SHEET NO.
SL	454

COUNTY
ST. LOUIS

JOB NO.
J6S3631

CONTRACT ID.

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DESCRIPTION	DATE

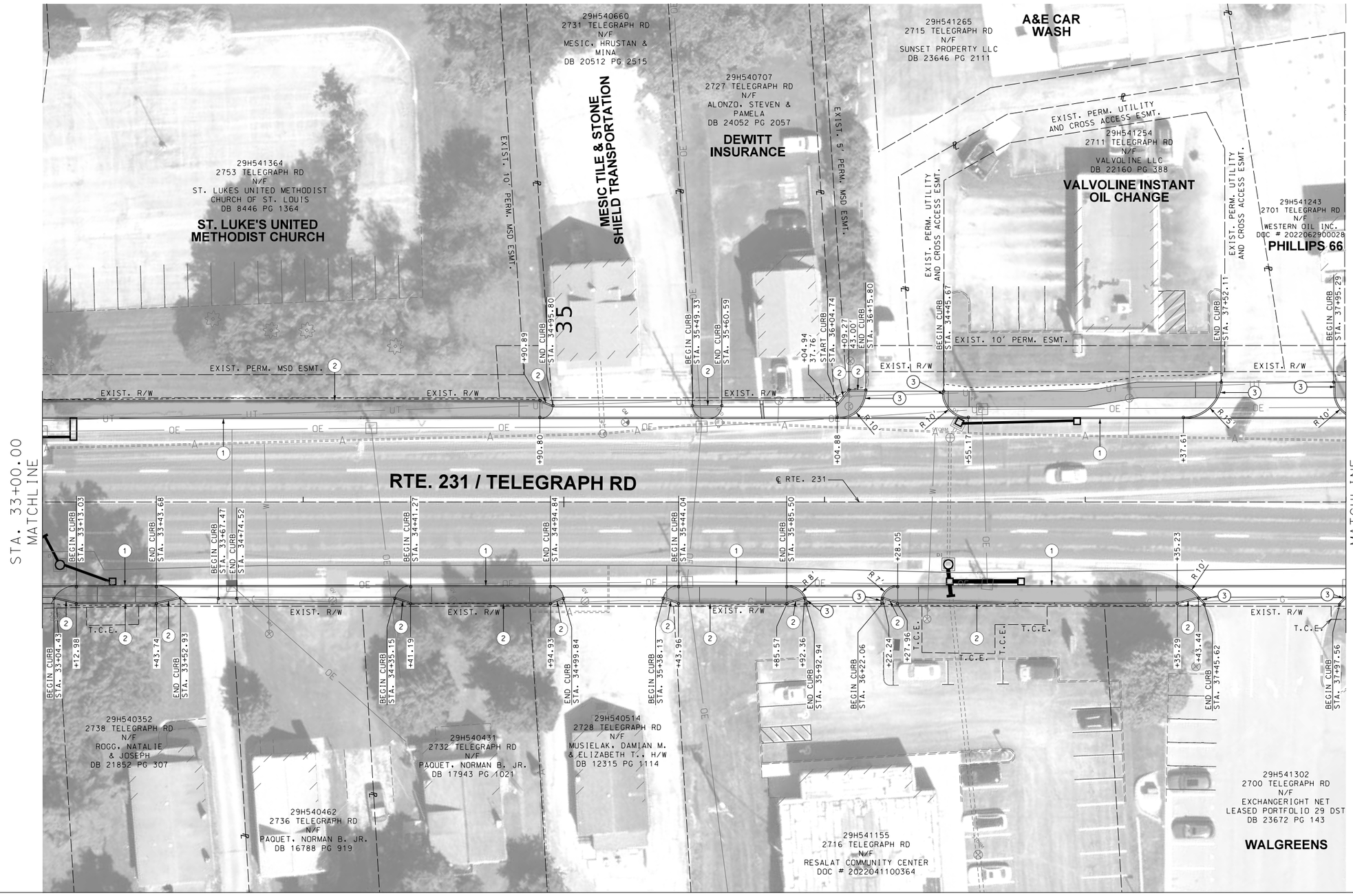
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SPECIAL CURB DESIGN SHEETS
SHEET 5 OF 32

LAYOUT	JAM	11/2024
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ROUTE	STATE
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DISTRICT	SHEET NO.
SL	455
COUNTY	
ST. LOUIS	
JOB NO.	
J6S3631	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

DESCRIPTION	DATE

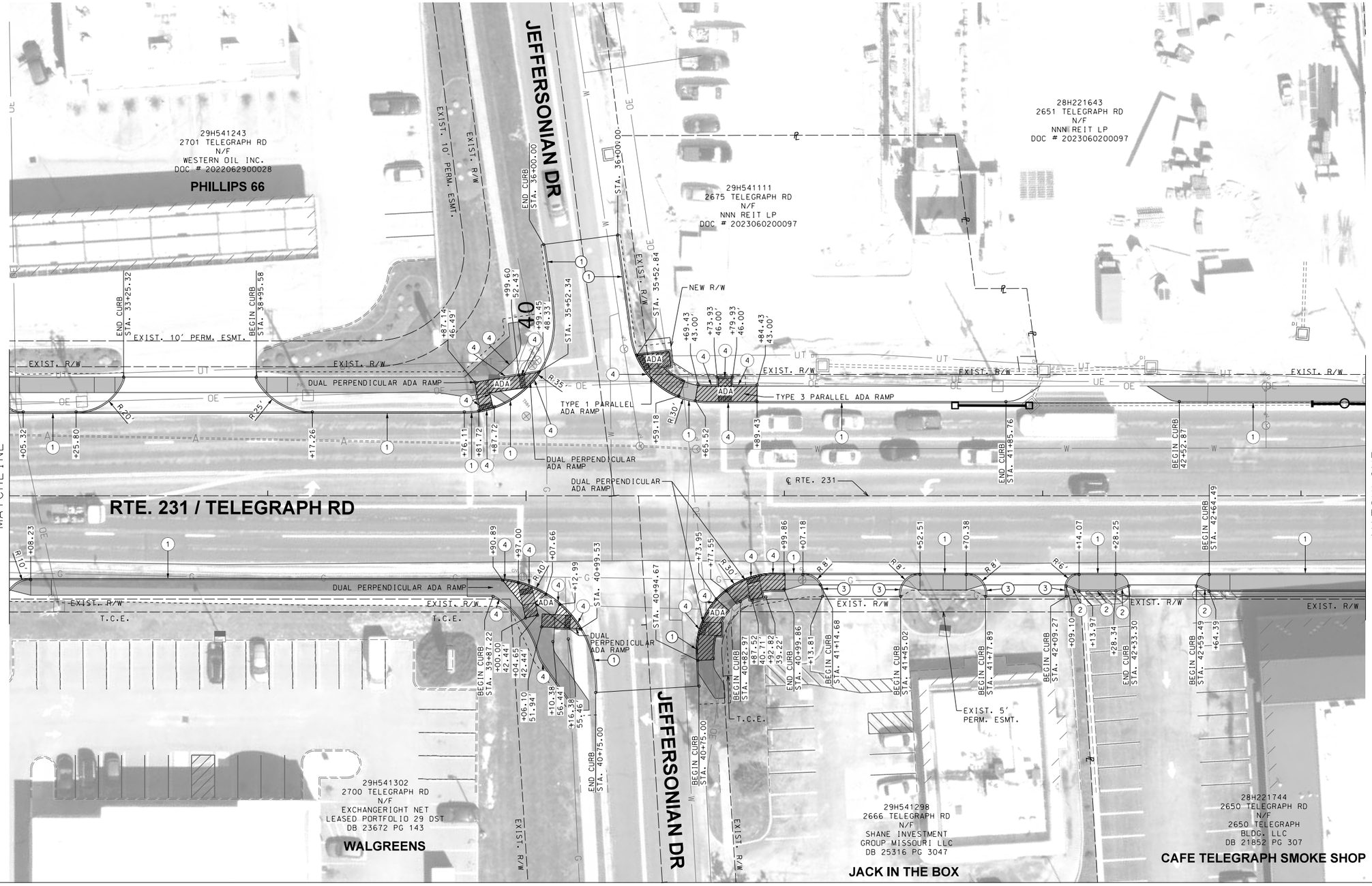
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SPECIAL SHEET LEGEND

- ADA RAMP
- (1) CONCRETE CURB (6 IN HEIGHT AND UNDER) TYPE S
- (2) CONCRETE CURB (OVER 6 IN HEIGHT) TYPE S
- (3) DRIVEWAY CURB
- (4) ADA CURB

NOTES:

1. SEE SUMMARY OF QUANTITIES FOR LOCATIONS OF CURBS
2. MEDIAN STATIONING AND OFFSETS ARE PROVIDED IN TABLE 1 THROUGH TABLES 15
3. FENCING AND GATE STATIONING AND OFFSETS ARE ARE PROVIDED IN TABLE 16 THROUGH TABLE 20

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SCALE
0 20 40 60

SPECIAL CURB DESIGN SHEETS
SHEET 6 OF 32

LAYOUT	JAM	11/2024
DRAWN	JAM	11/2024
REVIEWED		

STATE OF MISSOURI
DENNIS J. KOSCIELSKI
NUMBER PE-2005000712
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED
7/25/2025

ROUTE	STATE
231	MO
DISTRICT	SHEET NO.
SL	456

COUNTY
ST. LOUIS

JOB NO.
J6S3631

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DATE	DESCRIPTION

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
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MEDIAN - TABLE 2			
Point	Station	Offset	Location
A	46+69.42	6.50	LT
B	46+77.45	6.50	LT
C	46+83.45	6.00	LT
D	46+88.94	6.50	LT
E	46+67.42	4.50	LT
F	46+67.42	2.97	LT
G	46+77.45	1.06	LT
H	46+83.45	1.13	LT
I	46+88.97	1.20	LT

MEDIAN - TABLE 3			
Point	Station	Offset	Location
J	47+42.92	6.50	LT
K	47+68.34	6.50	LT
L	47+89.82	8.29	RT
M	47+87.95	11.00	RT
N	47+20.81	11.00	RT
O	47+20.03	7.16	RT
P	47+24.54	5.07	LT
Q	47+41.76	6.13	LT

MEDIAN - TABLE 4			
Point	Station	Offset	Location
R	48+17.23	17.00	LT
S	48+24.23	17.00	LT
T	48+32.48	17.00	LT
U	48+17.23	0.50	RT
V	48+24.23	0.50	RT
W	48+32.48	0.50	RT

STA. 43+25.00
MATCHLINE

MATCHLINE
STA. 48+35.00

28H221652
2641 TELEGRAPH RD
N/F
GVL PROPERTIES LLC
DB 24350 PG 4369

GVL PLUMBING

CHARLES H. FIKE, LLC TAX
& ACCOUNTING SERVICES

28H221616
2635 TELEGRAPH RD
N/F
S & P LAND TRUST
DB 21540 PG 2117

28H220273
2631 TELEGRAPH RD
N/F
BRADY, DEANNA D.
DB 20605 PG 294

28H221625
2625 TELEGRAPH RD
N/F
RVB & ASSOCIATES LLC
DB 10662 PG 2490

28H221634
2619 TELEGRAPH RD
N/F
RVB & ASSOCIATES LLC
DB 12419 PG 212

LOYALTY CONSTRUCTION
RESTORATION LLC

28H221692
2611 TELEGRAPH RD
N/F
AMER LLC
DB 18690 PG 2417

INDOOR COMFORT
TEAM

TELEGRAPH RD

RTE. 231 / TELEGRAPH RD

℄ RTE. 231

EXIST. R/W

BEGIN CURB STA. 44+87.34
END CURB STA. 44+74.01
BEGIN CURB STA. 44+35.44
END CURB STA. 44+60.36
BEGIN CURB STA. 44+95.87
END CURB STA. 45+09.54
BEGIN CURB STA. 45+32.31
END CURB STA. 45+64.73
BEGIN CURB STA. 45+83.90
END CURB STA. 46+87.03
BEGIN CURB STA. 48+08.81
END CURB STA. 48+14.65
END CURB STA. 48+33.73

LARGE RADIUS PERPENDICULAR ADA RAMP
ISLAND CUT THROUGH ADA RAMP
TYPE 3 PARALLEL ADA RAMP
SMALL RADIUS PERPENDICULAR ADA RAMP
SEE TABLE 2
SEE TABLE 3
SEE TABLE 4

END CURB STA. 44+15.33
BEGIN CURB STA. 44+49.09
END CURB STA. 44+22.73
BEGIN CURB STA. 44+41.68
END CURB STA. 45+51.16
BEGIN CURB STA. 45+64.41
END CURB STA. 45+52.14
BEGIN CURB STA. 45+53.32
BEGIN CURB STA. 45+83.87
END CURB STA. 46+43.46
END CURB STA. 45+61.34
END CURB STA. 45+36.58
BEGIN CURB STA. 47+60.16
END CURB STA. 55+62.08
BEGIN CURB STA. 55+46.76
END CURB STA. 55+57.94
END CURB STA. 55+18.23

PERM. ESMT.

CAFE TELEGRAPH SMOKE SHOP

BETTY JEAN LN

28H220122
2612 TELEGRAPH RD
N/F
EXCELDA DEVELOPMENT COMPANY
DB 5488 PG 13

CASH AMERICA PAWN

SUNCE EUROPA BAKERY
& GROCERY

SHEETS LAUNDROMAT

THE CROW BAR
& DELI

LAREDO AVE

SPECIAL SHEET LEGEND

- ADA RAMP
- ① CONCRETE CURB (6 IN HEIGHT AND UNDER) TYPE S
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SPECIAL CURB DESIGN SHEETS
SHEET 7 OF 32

LAYOUT	JAM	11/2024
DRAWN	JAM	11/2024
REVIEWED		

STATE OF MISSOURI
DENNIS J KOSCIELSKI
NUMBER PE-2005000712
PROFESSIONAL ENGINEER

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DATE PREPARED
7/25/2025

ROUTE	STATE
231	MO
DISTRICT	SHEET NO.
SL	457

COUNTY
ST. LOUIS

JOB NO.
J6S3631

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DATE	DESCRIPTION

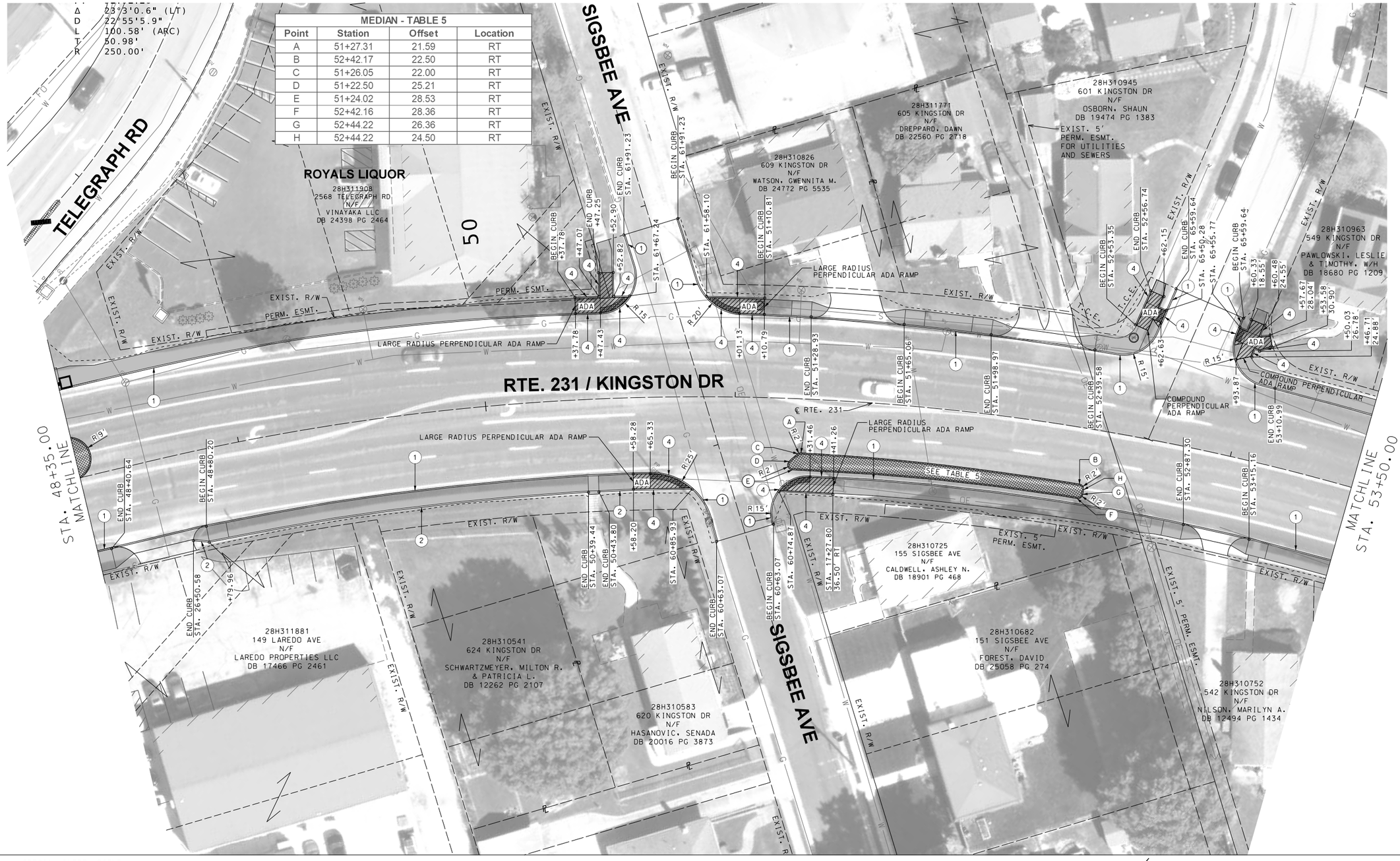
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SPECIAL CURB DESIGN SHEETS
SHEET 8 OF 32

LAYOUT	JAM	11/2024
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231	MO
DISTRICT	SHEET NO.
SL	458

COUNTY ST. LOUIS
JOB NO. J6S3631
CONTRACT ID.
PROJECT NO.
BRIDGE NO.

DESCRIPTION	DATE

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SPECIAL CURB DESIGN SHEETS
SHEET 9 OF 32

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231	MO
DISTRICT	SHEET NO.
SL	459

COUNTY
ST. LOUIS

JOB NO.
J6S3631

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PROJECT NO.

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SPECIAL CURB DESIGN SHEETS
SHEET 10 OF 32

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DRAWN	JAM	11/2024
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STATE OF MISSOURI
DENNIS J KOSCIELSKI
NUMBER PE-2005000712
PROFESSIONAL ENGINEER

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DATE PREPARED	
7/25/2025	
ROUTE	STATE
231	MO
DISTRICT	SHEET NO.
SL	460
COUNTY	
ST. LOUIS	
JOB NO.	
J6S3631	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

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	JAM	11/2024
LAYOUT	JAM	11/2024
DRAWN		
REVIEWED		

STATE OF MISSOURI
DENNIS J. KOSCIELSKI
NUMBER PE-2005000712
PROFESSIONAL ENGINEER

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DATE PREPARED	
7/25/2025	
ROUTE	STATE
231	MO
DISTRICT	SHEET NO.
SL	461
COUNTY	
ST. LOUIS	
JOB NO.	
J6S3631	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

DATE	DESCRIPTION

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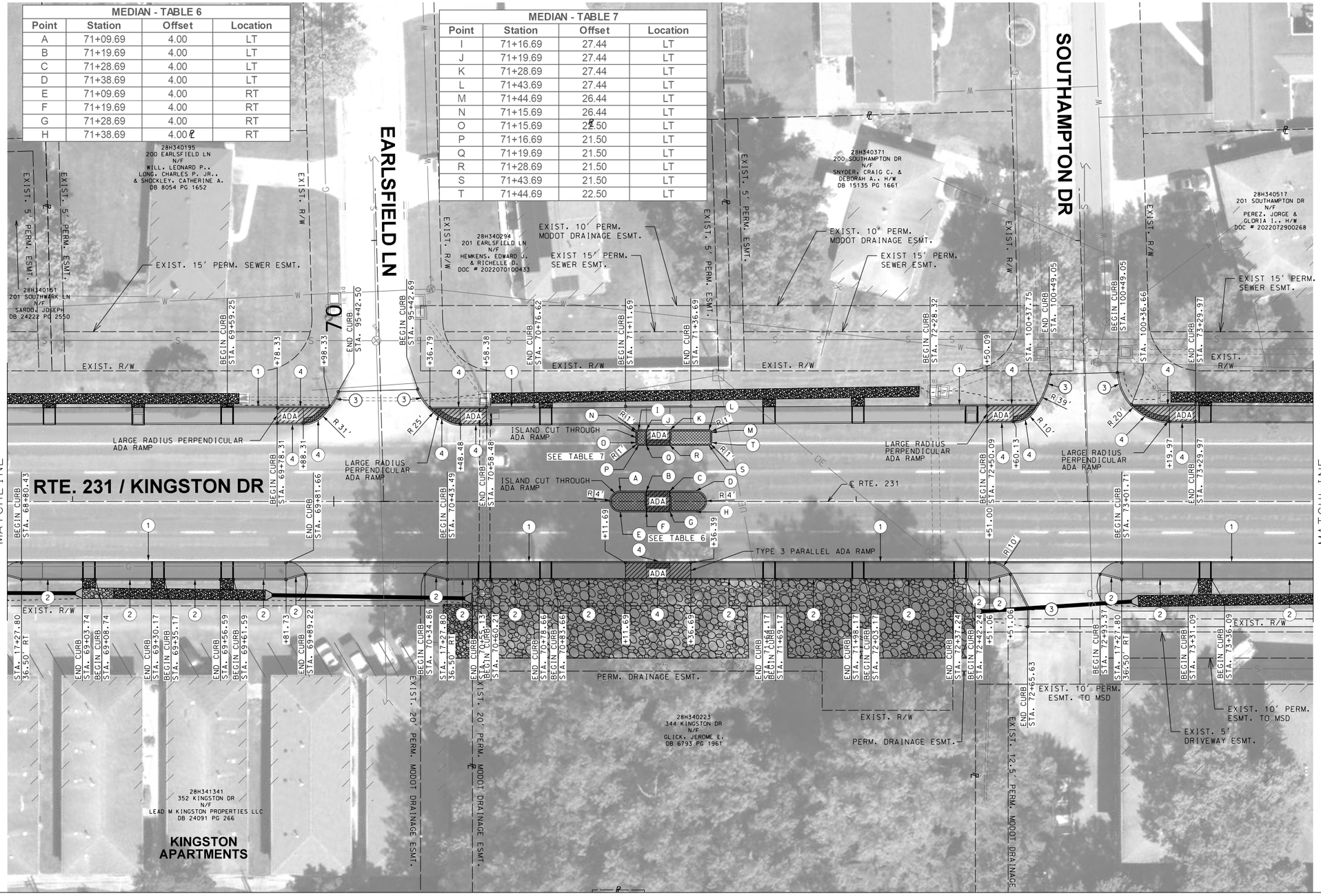
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SPECIAL CURB DESIGN SHEETS
SHEET 11 OF 32

MEDIAN - TABLE 6			
Point	Station	Offset	Location
A	71+09.69	4.00	LT
B	71+19.69	4.00	LT
C	71+28.69	4.00	LT
D	71+38.69	4.00	LT
E	71+09.69	4.00	RT
F	71+19.69	4.00	RT
G	71+28.69	4.00	RT
H	71+38.69	4.00	RT

MEDIAN - TABLE 7			
Point	Station	Offset	Location
I	71+16.69	27.44	LT
J	71+19.69	27.44	LT
K	71+28.69	27.44	LT
L	71+43.69	27.44	LT
M	71+44.69	26.44	LT
N	71+15.69	26.44	LT
O	71+15.69	22.50	LT
P	71+16.69	21.50	LT
Q	71+19.69	21.50	LT
R	71+28.69	21.50	LT
S	71+43.69	21.50	LT
T	71+44.69	22.50	LT



SPECIAL SHEET LEGEND

- ADA RAMP
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SPECIAL CURB DESIGN SHEETS
SHEET 12 OF 32

LAYOUT	JAM	11/2024
DRAWN	JAM	11/2024
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STATE OF MISSOURI
DENNIS J. KOSCIELSKI
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ROUTE	STATE
231	MO
DISTRICT	SHEET NO.
SL	462

COUNTY
ST. LOUIS

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SPECIAL SHEET LEGEND

▨	ADA RAMP
①	CONCRETE CURB (6 IN HEIGHT AND UNDER) TYPE S
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SPECIAL CURB DESIGN SHEETS
SHEET 13 OF 32

LAYOUT	JAM	11/2024
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ROUTE	STATE
231	MO
DISTRICT	SHEET NO.
SL	463

COUNTY
ST. LOUIS

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SPECIAL CURB DESIGN SHEETS
SHEET 14 OF 32

LAYOUT	JAM	11/2024
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STATE OF MISSOURI
DENNIS J KOSCIELSKI
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PROFESSIONAL ENGINEER

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ROUTE	STATE
231	MO
DISTRICT	SHEET NO.
SL	464

COUNTY
ST. LOUIS

JOB NO.
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SPECIAL CURB DESIGN SHEETS
SHEET 15 OF 32

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DATE PREPARED 7/25/2025

ROUTE	STATE
231	MO
DISTRICT	SHEET NO.
SL	465

COUNTY ST. LOUIS

JOB NO. J6S3631

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DATE	DESCRIPTION

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

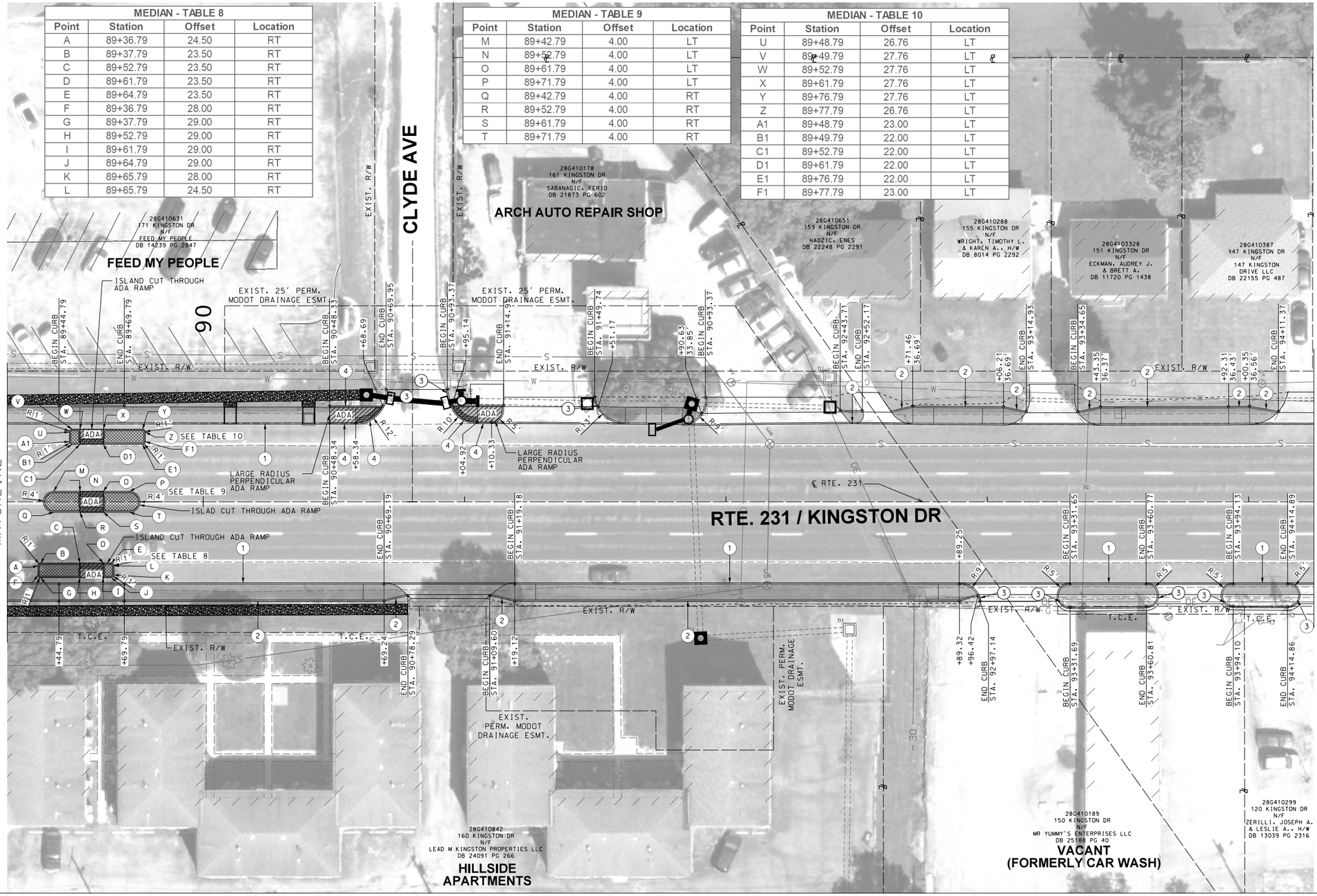
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MEDIAN - TABLE 8			
Point	Station	Offset	Location
A	89+36.79	24.50	RT
B	89+37.79	23.50	RT
C	89+52.79	23.50	RT
D	89+61.79	23.50	RT
E	89+64.79	23.50	RT
F	89+36.79	28.00	RT
G	89+37.79	29.00	RT
H	89+52.79	29.00	RT
I	89+61.79	29.00	RT
J	89+64.79	29.00	RT
K	89+65.79	28.00	RT
L	89+65.79	24.50	RT

MEDIAN - TABLE 9			
Point	Station	Offset	Location
M	89+42.79	4.00	LT
N	89+52.79	4.00	LT
O	89+61.79	4.00	LT
P	89+71.79	4.00	LT
Q	89+42.79	4.00	RT
R	89+52.79	4.00	RT
S	89+61.79	4.00	RT
T	89+71.79	4.00	RT

MEDIAN - TABLE 10			
Point	Station	Offset	Location
U	89+48.79	26.76	LT
V	89+49.79	27.76	LT
W	89+52.79	27.76	LT
X	89+61.79	27.76	LT
Y	89+76.79	27.76	LT
Z	89+77.79	26.76	LT
A1	89+48.79	23.00	LT
B1	89+49.79	22.00	LT
C1	89+52.79	22.00	LT
D1	89+61.79	22.00	LT
E1	89+76.79	22.00	LT
F1	89+77.79	23.00	LT



SPECIAL SHEET LEGEND

- ADA RAMP
- (1) CONCRETE CURB (6 IN HEIGHT AND UNDER) TYPE S
- (2) CONCRETE CURB (OVER 6 IN HEIGHT) TYPE S
- (3) DRIVEWAY CURB
- (4) ADA CURB

NOTES:

1. SEE SUMMARY OF QUANTITIES FOR LOCATIONS OF CURBS
2. MEDIAN STATIONING AND OFFSETS ARE PROVIDED IN TABLE 1 THROUGH TABLES 15
3. FENCING AND GATE STATIONING AND OFFSETS ARE ARE PROVIDED IN TABLE 16 THROUGH TABLE 20

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SPECIAL CURB DESIGN SHEETS
SHEET 16 OF 32

LAYOUT	JAM	11/2024
DRAWN	JAM	11/2024
REVIEWED		

STATE OF MISSOURI DENNIS J. KOSCIELSKI NUMBER PE-2005000712 PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED 7/25/2025

ROUTE	STATE
231	MO
DISTRICT	SHEET NO.
SL	466

COUNTY ST. LOUIS

JOB NO. J6S3631

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION	DATE

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MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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SPECIAL SHEET LEGEND

- ADA RAMP
- ① CONCRETE CURB (6 IN HEIGHT AND UNDER) TYPE S
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SCALE

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SPECIAL CURB DESIGN SHEETS
SHEET 17 OF 32

LAYOUT	JAM	11/2024
DRAWN	JAM	11/2024
REVIEWED		

STATE OF MISSOURI
DENNIS J. KOSCIELSKI
NUMBER PE-2005000712
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED
7/25/2025

ROUTE	STATE
231	MO
DISTRICT	SHEET NO.
SL	467

COUNTY
ST. LOUIS

JOB NO.
J6S3631

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

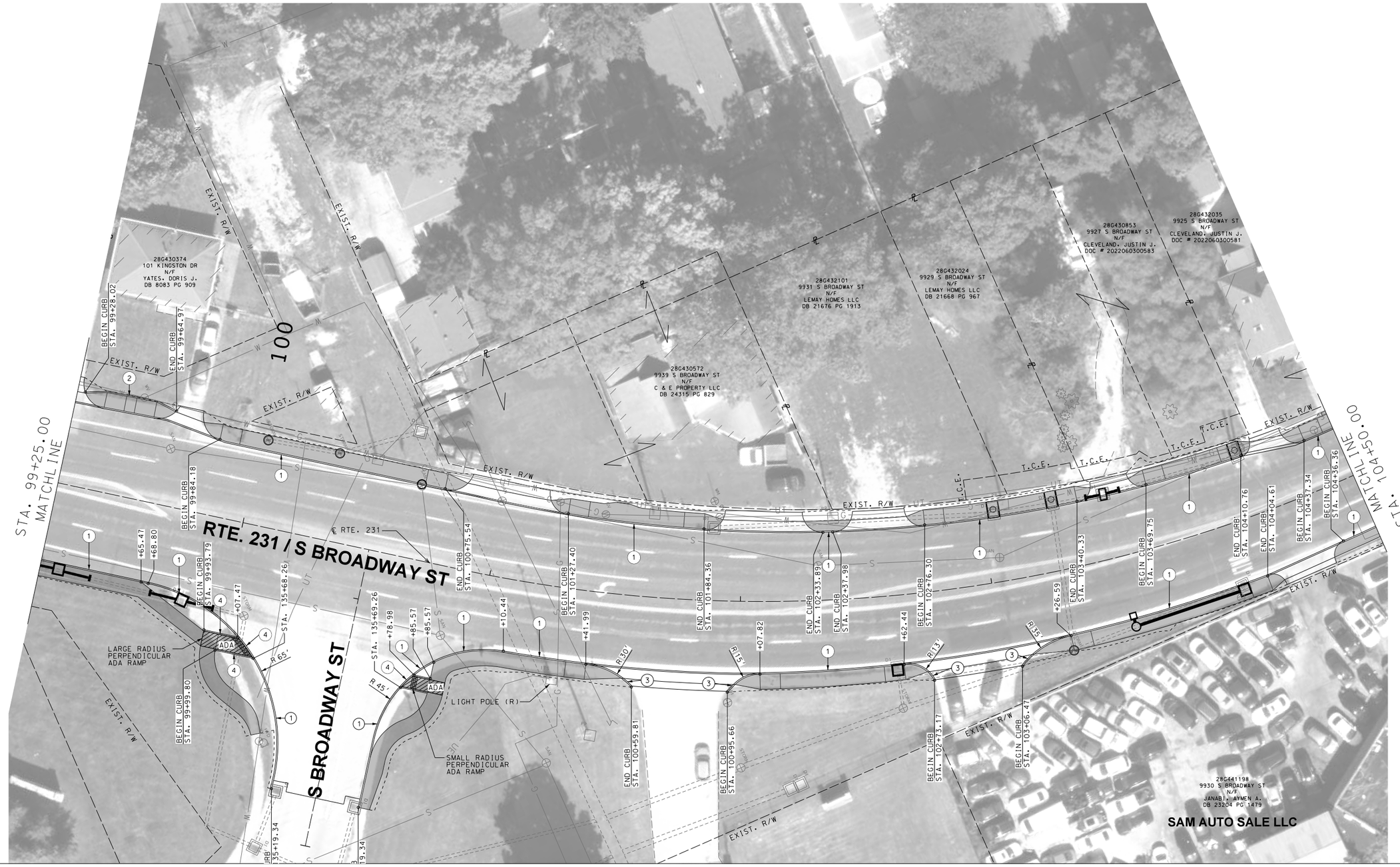
DATE	DESCRIPTION

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SPECIAL SHEET LEGEND

- ADA RAMP
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SCALE
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SPECIAL CURB DESIGN SHEETS
SHEET 18 OF 32

LAYOUT	JAM	11/2024
DRAWN	JAM	11/2024
REVIEWED		

STATE OF MISSOURI
DENNIS J KOSCIELSKI
NUMBER PE-2005000712
PROFESSIONAL ENGINEER

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DATE PREPARED 7/25/2025

ROUTE	STATE
231	MO
DISTRICT	SHEET NO.
SL	468

COUNTY: ST. LOUIS
JOB NO.: J6S3631
CONTRACT ID.:
PROJECT NO.:
BRIDGE NO.:

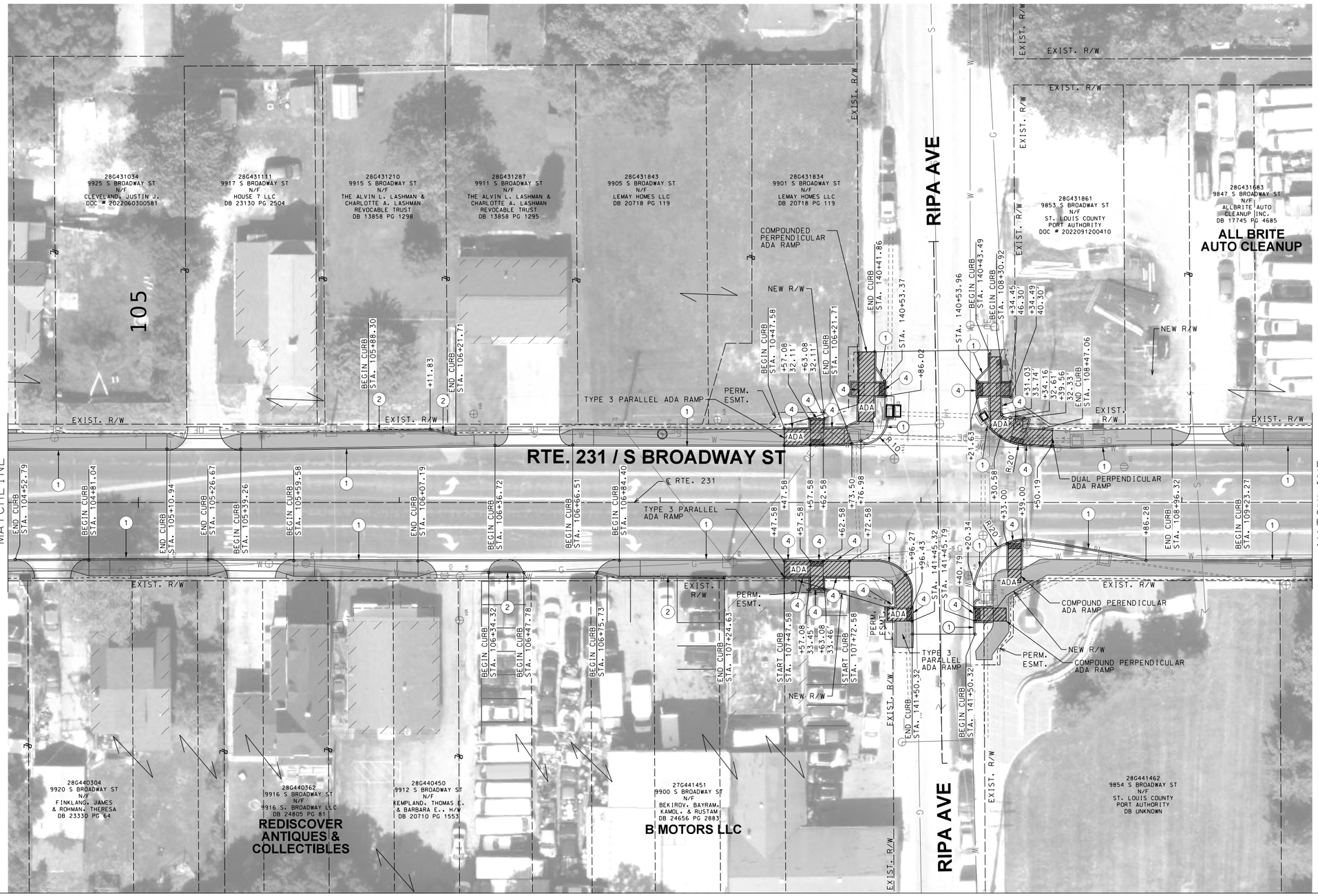
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SPECIAL SHEET LEGEND

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SCALE

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SPECIAL CURB DESIGN SHEETS
SHEET 19 OF 32

LAYOUT	JAM	11/2024
DRAWN	JAM	11/2024
REVIEWED		

STATE OF MISSOURI
DENNIS J. KOSCIELSKI
NUMBER PE-2005000712
PROFESSIONAL ENGINEER

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DATE PREPARED 7/25/2025

ROUTE	STATE
231	MO
DISTRICT	SHEET NO.
SL	469

COUNTY: ST. LOUIS
JOB NO.: J6S3631
CONTRACT ID.:
PROJECT NO.:
BRIDGE NO.:

DESCRIPTION	DATE

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FENCING AND GATES - TABLE 17

Point	Station	Offset	TO	Station	Offset	Location	Remarks
F11	145+62.69	22.7	TO	145+69.65	22.7	LT	CHAIN-LINK FENCE
F12	113+83.73	30.5	TO	114+51.20	30.5	LT	CHAIN-LINK FENCE
G2	113+96.56	30.5	TO	114+02.00	30.5	LT	CHAIN-LINK WALK GATE
G3	114+13.17	30.5	TO	114+23.23	30.5	LT	CHAIN-LINK DRIVE GATE

STA. 109+50.00
MATCHLINE

STA. 114+50.00
MATCHLINE

RTE. 231 / S BROADWAY ST

ALL BRITE AUTO CLEANUP

28G431771
9845 S BROADWAY ST
N/F
ALLBRITE AUTO CLEANUP INC.
DB 8363 PG 566

27G110064
9837 S BROADWAY ST
N/F
DEER, GREGORY & MEGAN
DB 17171 PG 2044

27G112404
9835 S BROADWAY ST
N/F
BRAUCH, SHERRY
DB 13203 PG 271

27G110240
9829 S BROADWAY ST
N/F
BRAUCH, SHERRY
DB 15377 PG 852

AMEREN RIPA SUBSTATION

27G112422
9825 S BROADWAY ST
N/F
UNION ELECTRIC COMPANY OF MISSOURI
DB 3416 PG 69

VIEHL AVE

27G110471
9815 S BROADWAY ST
N/F
GOLDENLAND INVESTMENTS LLC
DB 22604 PG 327

27G121864
9828 S BROADWAY ST
N/F
THE INDUSTRIAL DEVELOPMENT AUTHORITY OF THE COUNTY OF ST. LOUIS, MISSOURI
DB 17750 PG 3829

LEMAY CHILD & FAMILY CENTER

27G120151
9816 S BROADWAY ST
N/F
LEMAY CHILD & FAMILY CENTER
DB 13431 PG 1183

27G120223
9814 S BROADWAY ST
N/F
TRESSONS LLC
DB 24914 PG 2277

27G120283
9810 S BROADWAY ST
N/F
TRESSONS LLC
DB 24914 PG 2277

SMALL RADIUS PERPENDICULAR ADA RAMP

SMALL RADIUS PERPENDICULAR ADA RAMP

PERM. ESMT.

T.C.E.

EXIST. R/W

BEGIN CURB STA. 109+86.56
+96.66 28.55'
END CURB STA. 110+05.22
BEGIN CURB STA. 110+25.73
+33.07 28.49'
+42.87 28.49'
+59.69 28.91'
END CURB STA. 110+65.53
END CURB STA. 109+65.73
BEGIN CURB STA. 109+98.43
BEGIN CURB STA. 110+06.03
+06.03
+58.14
END CURB STA. 109+96.59
BEGIN CURB STA. 110+33.16
END CURB STA. 110+59.64
BEGIN CURB STA. 110+99.18
END CURB STA. 110+70.70
BEGIN CURB STA. 111+01.05
END CURB STA. 111+81.20
BEGIN CURB STA. 112+08.14
END CURB STA. 112+08.74
BEGIN CURB STA. 112+14.06
END CURB STA. 112+50.94
BEGIN CURB STA. 112+67.40
BEGIN CURB STA. 110+25.73
+31.07 30.19'
+37.51 36.17'
END CURB STA. 113+48.76
+37.91
BEGIN CURB STA. 113+28.28
+73.03
+83.29
+76.58
BEGIN CURB STA. 113+83.17
END CURB STA. 114+06.74
BEGIN CURB STA. 114+24.48
BEGIN CURB STA. 114+33.11
BEGIN CURB STA. 114+37.83

R.18'

F11 F12 G2 G3

ADA

SPECIAL SHEET LEGEND

- ADA RAMP
- (1) CONCRETE CURB (6 IN HEIGHT AND UNDER) TYPE S
- (2) CONCRETE CURB (OVER 6 IN HEIGHT) TYPE S
- (3) DRIVEWAY CURB
- (4) ADA CURB

NOTES:

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SCALE
0 20 40 60

SPECIAL CURB DESIGN SHEETS
SHEET 20 OF 32

LAYOUT	JAM	11/2024
DRAWN	JAM	11/2024
REVIEWED		

STATE OF MISSOURI
DENNIS J. KOSCIELSKI
NUMBER PE-2005000712
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED
7/25/2025

ROUTE	STATE
231	MO
DISTRICT	SHEET NO.
SL	470

COUNTY
ST. LOUIS

JOB NO.
J6S3631

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DATE	DESCRIPTION

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MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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MEDIAN - TABLE 11			
Point	Station	Offset	Location
A	116+75.65	12.50	RT
B	116+99.63	12.50	RT
C	117+08.63	12.50	RT
D	117+11.63	12.50	RT
E	116+62.81	17.88	RT
F	116+63.53	19.58	RT
G	116+99.63	19.58	RT
H	117+08.63	19.58	RT
I	117+11.63	19.58	RT
J	117+12.63	18.58	RT
K	117+12.63	13.50	RT

MEDIAN - TABLE 12			
Point	Station	Offset	Location
L	116+91.63	18.77	LT
M	116+92.63	19.77	LT
N	116+99.63	19.77	LT
O	117+08.63	19.77	LT
P	117+17.69	19.77	LT
Q	117+18.40	18.06	LT
R	116+91.63	13.50	LT
S	116+92.63	12.50	LT
T	116+99.63	12.50	LT
U	117+08.63	12.50	LT
V	117+10.77	12.50	LT
W	117+14.30	13.96	LT

FENCING AND GATES - TABLE 18								
Point	Station	Offset	TO	Station	Offset	Location	Remarks
F12	113+83.73	30.5	TO	114+51.20	30.5	LT	CHAIN-LINK FENCE
F13	118+36.19	38.3	TO	118+84.27	38.3	RT	CHAIN-LINK FENCE
F14	160+37.97	28.3	TO	160+50.78	28.3	RT	CHAIN-LINK FENCE

STA. 114+50.00
MATCHLINE

STA. 119+92.00
MATCHLINE

RTE. 231 / S BROADWAY ST

W ARLEE AVE

W FELTON AVE

E ARLEE AVE

THE KORNER BAR

RELIABLE HOME REPAIR
CERTIFIED WATERPROOFING

PLASTI-TEK SALES

FEXER SALES & SERVICE

SPECIAL SHEET LEGEND

- ADA RAMP
- (1) CONCRETE CURB (6 IN HEIGHT AND UNDER) TYPE S
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SCALE
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SPECIAL CURB DESIGN SHEETS
SHEET 21 OF 32

LAYOUT	JAM	11/2024
DRAWN	JAM	11/2024
REVIEWED		

STATE OF MISSOURI
DENNIS J. KOSCIELSKI
NUMBER PE-2005000712
PROFESSIONAL ENGINEER

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DATE PREPARED 7/25/2025

ROUTE	STATE
231	MO
DISTRICT	SHEET NO.
SL	471

COUNTY ST. LOUIS
JOB NO. J6S3631
CONTRACT ID.
PROJECT NO.
BRIDGE NO.

DESCRIPTION	DATE

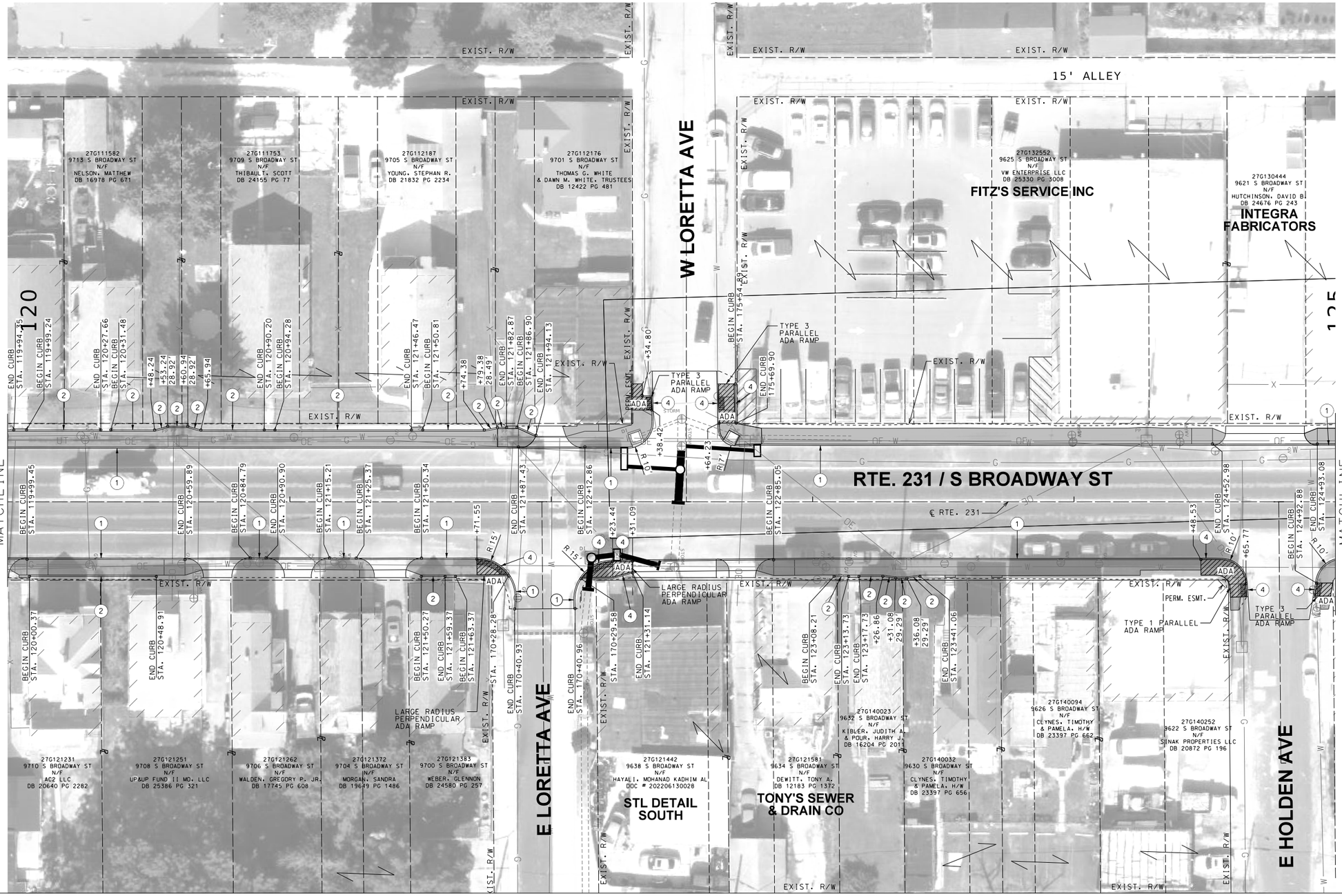
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SPECIAL SHEET LEGEND

- ADA RAMP
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SCALE
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SPECIAL CURB DESIGN SHEETS
SHEET 22 OF 32

LAYOUT	JAM	11/2024
DRAWN	JAM	11/2024
REVIEWED		

STATE OF MISSOURI
DENNIS J. KOSCIELSKI
NUMBER PE-2005000712
PROFESSIONAL ENGINEER

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DATE PREPARED
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ROUTE	STATE
231	MO
DISTRICT	SHEET NO.
SL	472

COUNTY
ST. LOUIS

JOB NO.
J6S3631

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION	DATE

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

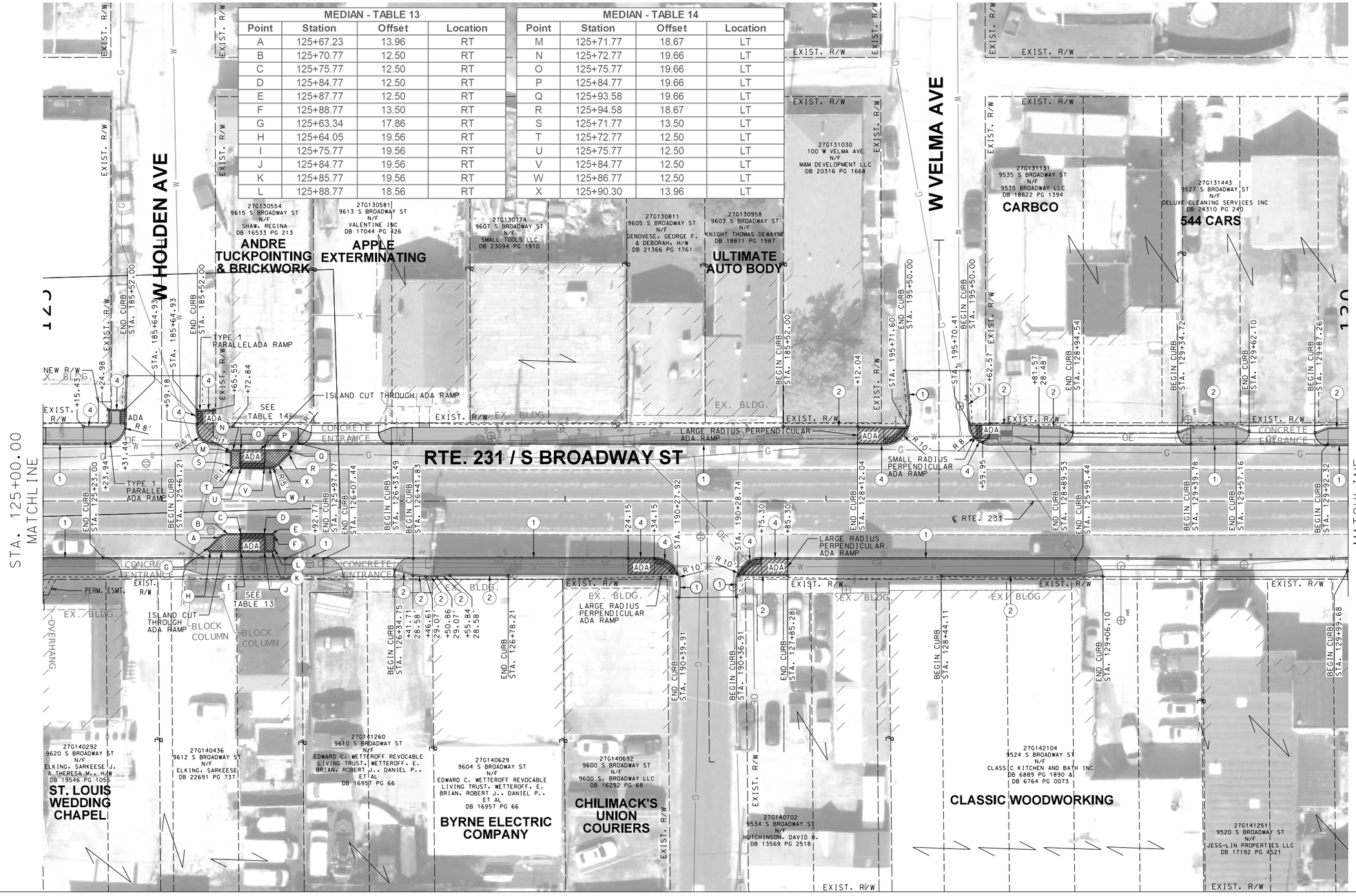
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MEDIAN - TABLE 13			
Point	Station	Offset	Location
A	125+67.23	13.96	RT
B	125+70.77	12.50	RT
C	125+75.77	12.50	RT
D	125+84.77	12.50	RT
E	125+87.77	12.50	RT
F	125+88.77	13.50	RT
G	125+63.34	17.86	RT
H	125+64.05	19.56	RT
I	125+75.77	19.56	RT
J	125+84.77	19.56	RT
K	125+85.77	19.56	RT
L	125+88.77	18.56	RT

MEDIAN - TABLE 14			
Point	Station	Offset	Location
M	125+71.77	18.67	LT
N	125+72.77	19.66	LT
O	125+75.77	19.66	LT
P	125+84.77	19.66	LT
Q	125+93.58	19.66	LT
R	125+94.58	18.67	LT
S	125+71.77	13.50	LT
T	125+72.77	12.50	LT
U	125+75.77	12.50	LT
V	125+84.77	12.50	LT
W	125+86.77	12.50	LT
X	125+90.30	13.96	LT



SPECIAL SHEET LEGEND

- ADA RAMP
- ① CONCRETE CURB (6 IN HEIGHT AND UNDER) TYPE S
- ② CONCRETE CURB (OVER 6 IN HEIGHT) TYPE S
- ③ DRIVEWAY CURB
- ④ ADA CURB

NOTES:

1. SEE SUMMARY OF QUANTITIES FOR LOCATIONS OF CURBS
2. MEDIAN STATIONING AND OFFSETS ARE PROVIDED IN TABLE 1 THROUGH TABLES 15
3. FENCING AND GATE STATIONING AND OFFSETS ARE ARE PROVIDED IN TABLE 16 THROUGH TABLE 20

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SCALE

0 20 40 60

SPECIAL CURB DESIGN SHEETS
SHEET 23 OF 32

LAYOUT	JAM	11/2024
DRAWN	JAM	11/2024
REVIEWED		

STATE OF MISSOURI
DENNIS J. KOSCIELSKI
NUMBER PE-2005000712
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED
7/25/2025

ROUTE	STATE
231	MO
DISTRICT	SHEET NO.
SL	473

COUNTY
ST. LOUIS

JOB NO.
J6S3631

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION	DATE

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

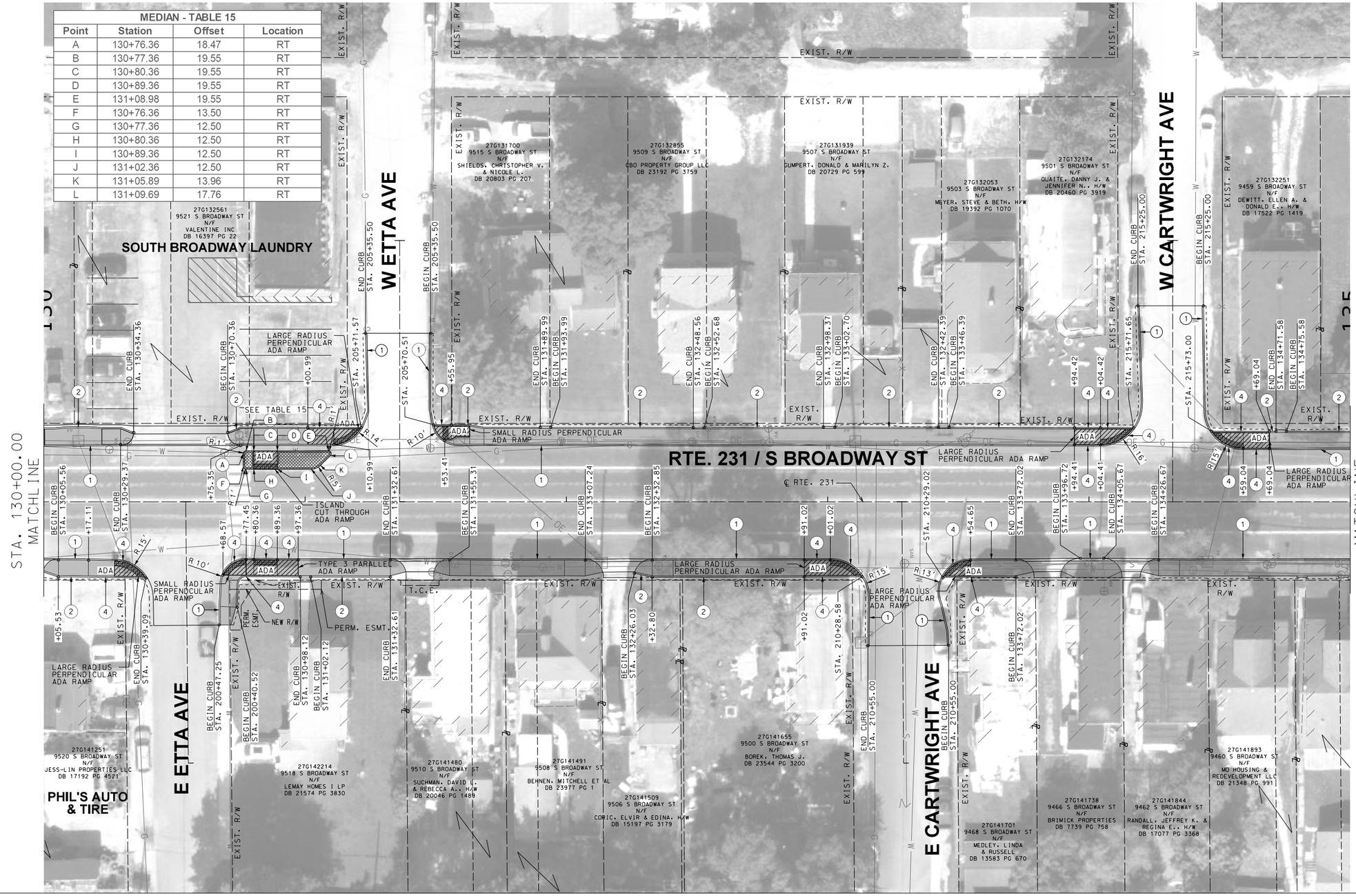
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MEDIAN - TABLE 15			
Point	Station	Offset	Location
A	130+76.36	18.47	RT
B	130+77.36	19.55	RT
C	130+80.36	19.55	RT
D	130+89.36	19.55	RT
E	131+08.98	19.55	RT
F	130+76.36	13.50	RT
G	130+77.36	12.50	RT
H	130+80.36	12.50	RT
I	130+89.36	12.50	RT
J	131+02.36	12.50	RT
K	131+05.89	13.96	RT
L	131+09.69	17.76	RT



SPECIAL SHEET LEGEND

- ADA RAMP
- (1) CONCRETE CURB (6 IN HEIGHT AND UNDER) TYPE S
- (2) CONCRETE CURB (OVER 6 IN HEIGHT) TYPE S
- (3) DRIVEWAY CURB
- (4) ADA CURB

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SPECIAL CURB DESIGN SHEETS
SHEET 24 OF 32

LAYOUT	JAM	11/2024
DRAWN	JAM	11/2024
REVIEWED		

STATE OF MISSOURI
DENNIS J. KOSCIELSKI
NUMBER PE-2005000712
PROFESSIONAL ENGINEER

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DATE PREPARED
7/25/2025

ROUTE	STATE
231	MO
DISTRICT	SHEET NO.
SL	474

COUNTY
ST. LOUIS

JOB NO.
J6S3631

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION	DATE

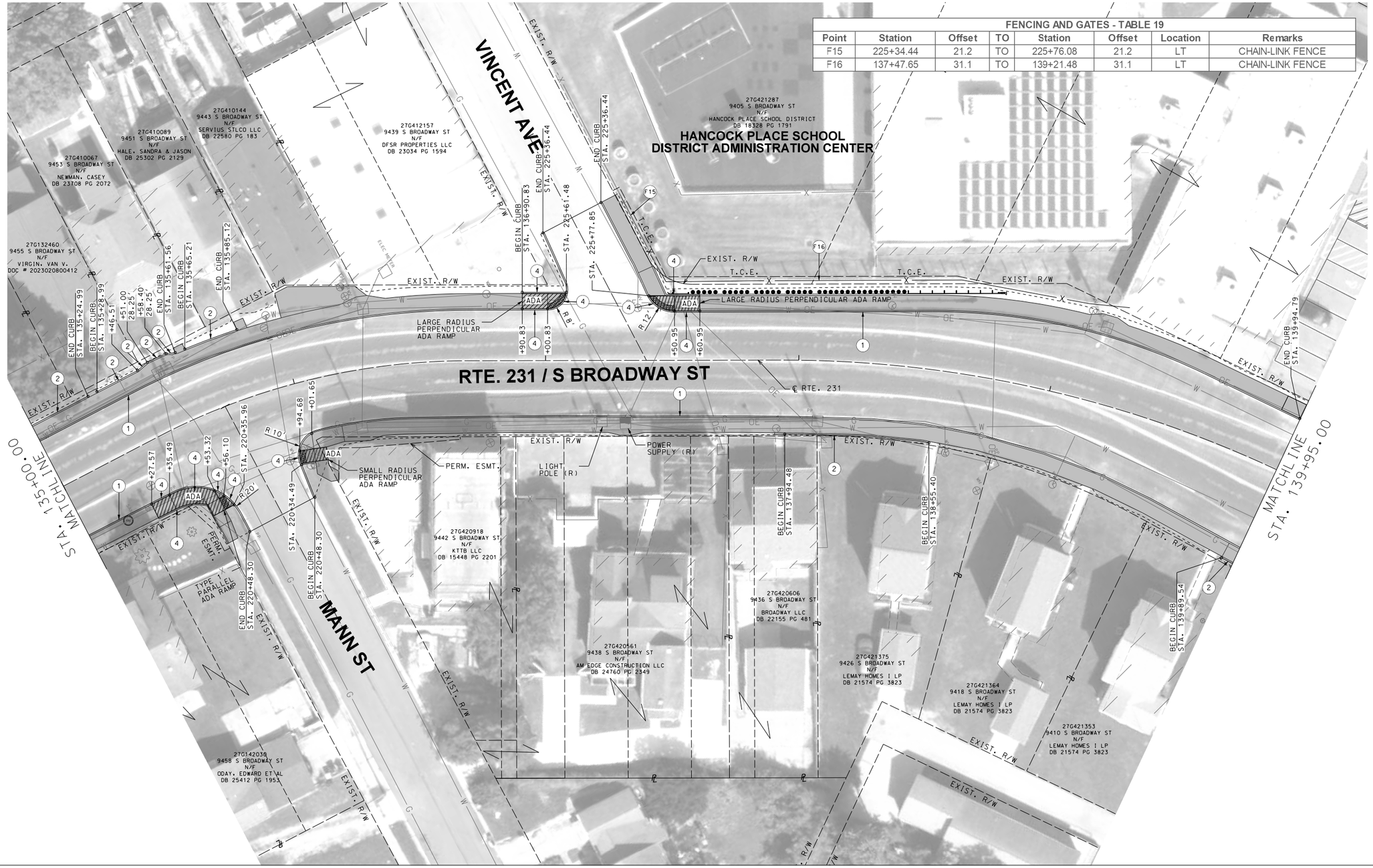
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FENCING AND GATES - TABLE 19							
Point	Station	Offset	TO	Station	Offset	Location	Remarks
F15	225+34.44	21.2	TO	225+76.08	21.2	LT	CHAIN-LINK FENCE
F16	137+47.65	31.1	TO	139+21.48	31.1	LT	CHAIN-LINK FENCE



SPECIAL SHEET LEGEND

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SCALE
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SPECIAL CURB DESIGN SHEETS
SHEET 25 OF 32

LAYOUT	JAM	11/2024
DRAWN	JAM	11/2024
REVIEWED		

STATE OF MISSOURI
DENNIS J. KOSCIELSKI
NUMBER PE-2005000712
PROFESSIONAL ENGINEER

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ROUTE	STATE
231	MO
DISTRICT	SHEET NO.
SL	475

COUNTY
ST. LOUIS

JOB NO.
J6S3631

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

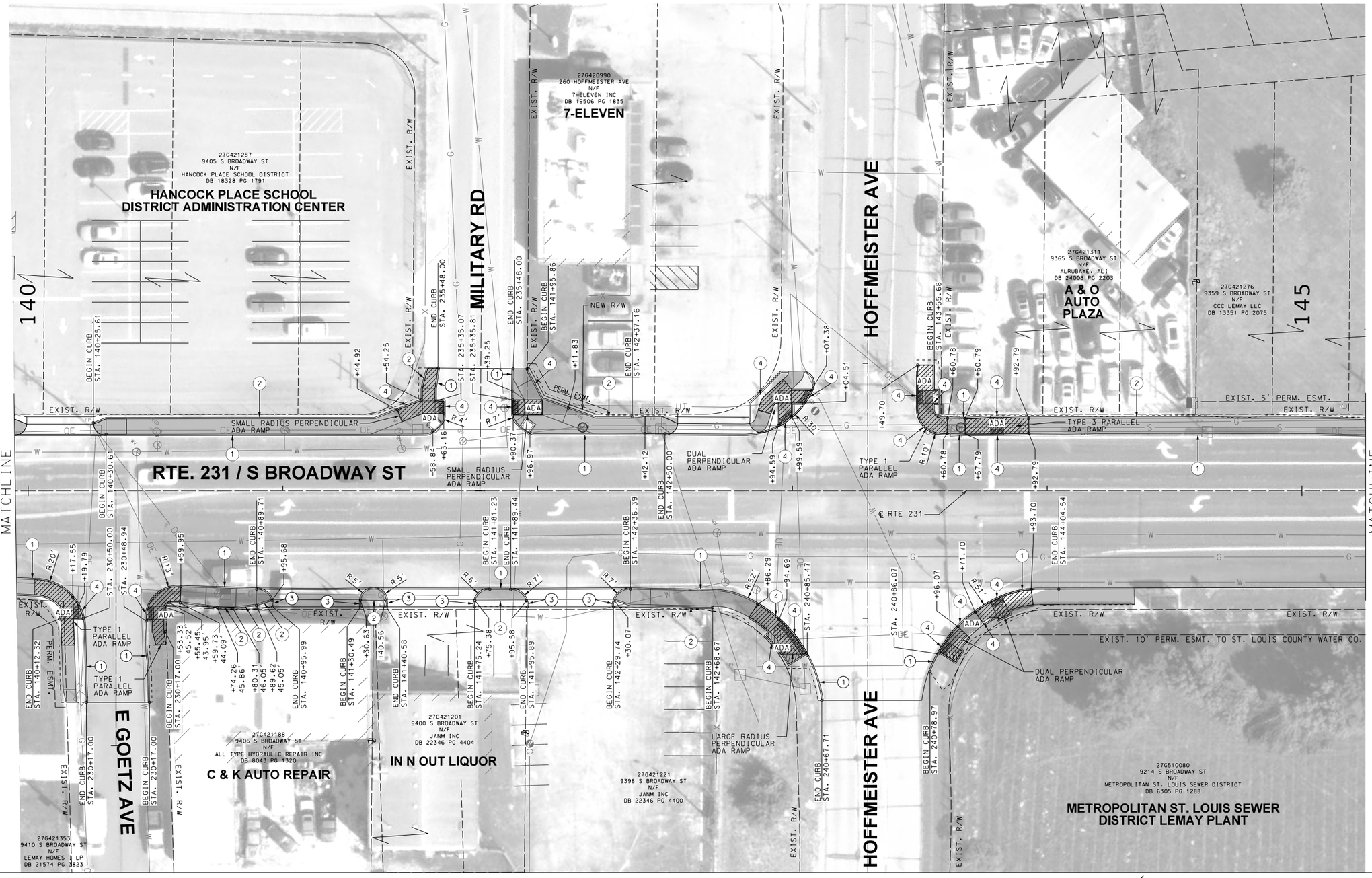
DESCRIPTION	DATE

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SPECIAL SHEET LEGEND

- ADA RAMP
- (1) CONCRETE CURB (6 IN HEIGHT AND UNDER) TYPE S
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SPECIAL CURB DESIGN SHEETS
SHEET 26 OF 32

LAYOUT	JAM	11/2024
DRAWN	JAM	11/2024
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231	MO
DISTRICT	SHEET NO.
SL	476

COUNTY ST. LOUIS

JOB NO. J6S3631

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

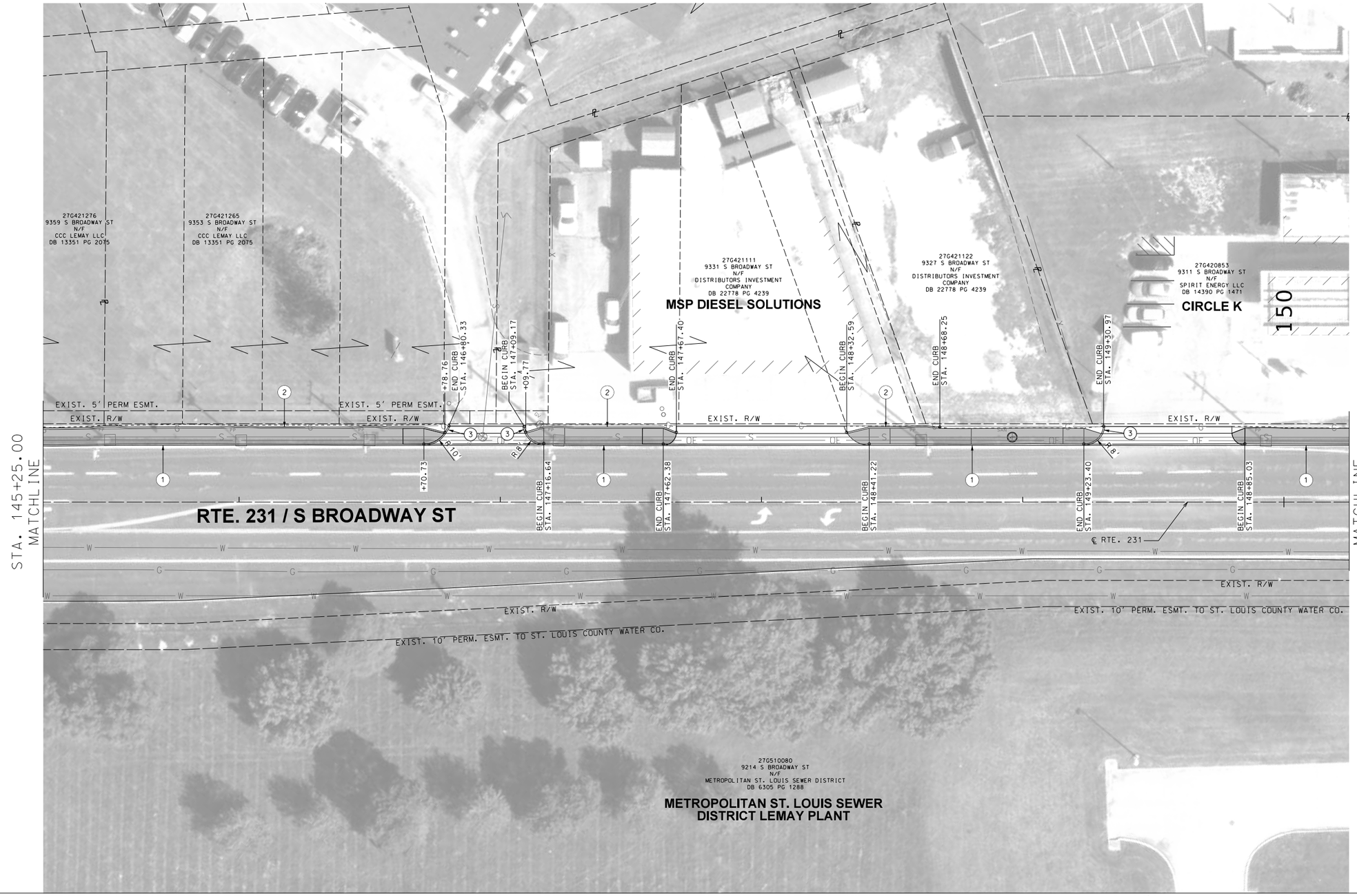
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SPECIAL SHEET LEGEND

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SPECIAL CURB DESIGN SHEETS
SHEET 27 OF 32

LAYOUT	JAM	11/2024
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J6S3631

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DATE	DESCRIPTION

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SPECIAL SHEET LEGEND

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SCALE
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SPECIAL CURB DESIGN SHEETS
SHEET 28 OF 32

LAYOUT	JAM	11/2024
DRAWN	JAM	11/2024
REVIEWED		

STATE OF MISSOURI
DENNIS J. KOSCIELSKI
NUMBER PE-2005000712
PROFESSIONAL ENGINEER

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ROUTE	STATE
231	MO
DISTRICT	SHEET NO.
SL	478

COUNTY
ST. LOUIS

JOB NO.
J6S3631

CONTRACT ID.

PROJECT NO.

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SPECIAL SHEET LEGEND

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SPECIAL CURB DESIGN SHEETS
SHEET 29 OF 32

LAYOUT	JAM	11/2024
DRAWN	JAM	11/2024
REVIEWED		

STATE OF MISSOURI
DENNIS J KOSCIELSKI
NUMBER PE-2005000712
PROFESSIONAL ENGINEER

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DATE PREPARED
7/25/2025

ROUTE	STATE
231	MO
DISTRICT	SHEET NO.
SL	479

COUNTY
ST. LOUIS

JOB NO.
J6S3631

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION	DATE

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FENCING AND GATES - TABLE 20

Point	Station	Offset	TO	Station	Offset	Location	Remarks
G4	164+29.98	28.8	TO	164+66.64	28.8	LT	CHAIN-LINK FENCE

SPECIAL SHEET LEGEND

- ADA RAMP
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SPECIAL CURB DESIGN SHEETS
SHEET 30 OF 32

LAYOUT	JAM	11/2024
DRAWN	JAM	11/2024
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STATE OF MISSOURI
DENNIS J. KOSCIELSKI
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ROUTE	STATE
231	MO
DISTRICT	SHEET NO.
SL	480

COUNTY
ST. LOUIS

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J6S3631

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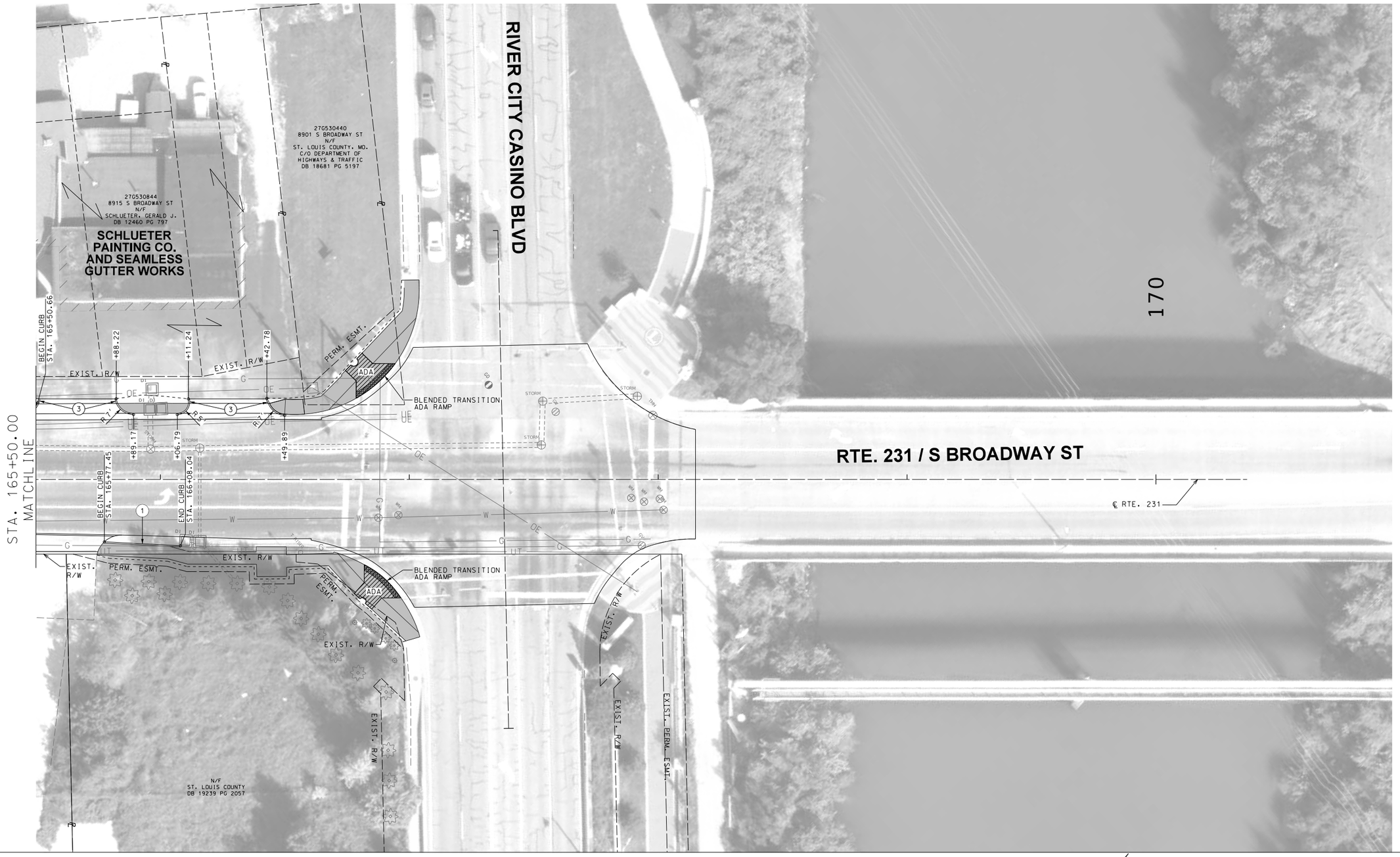
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SPECIAL CURB DESIGN SHEETS
SHEET 31 OF 32

LAYOUT	JAM	11/2024
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231	MO
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SL	481

COUNTY
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JOB NO.
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CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION	DATE

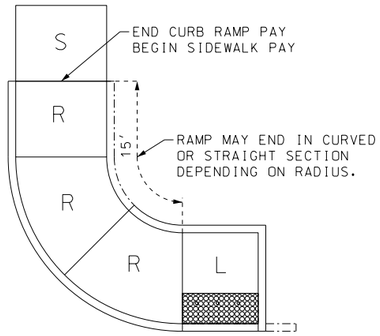
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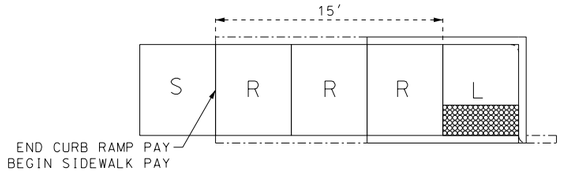
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PEDESTRIAN CURB RAMP PAY LIMITS

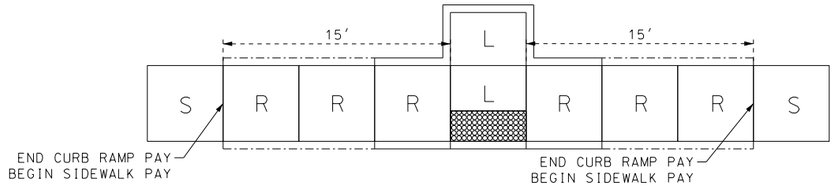


TYPE 1 PARALLEL

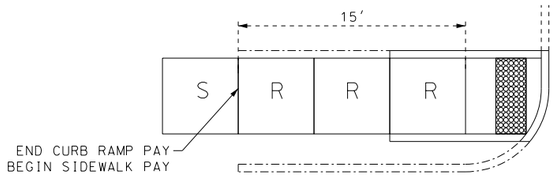
THE LENTH OF THIS RAMP SHALL BE MEASURED ON THE INSIDE/SHORT SIDE OF THE CURVE



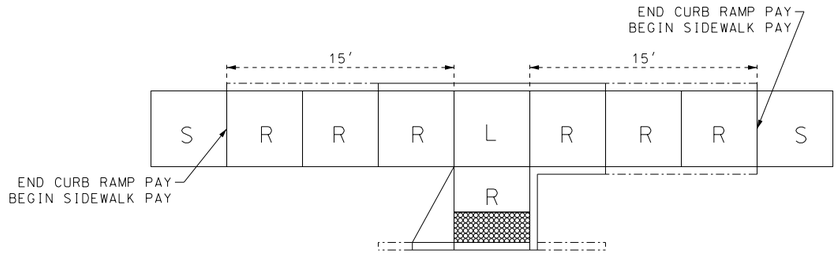
TYPE 2 PARALLEL



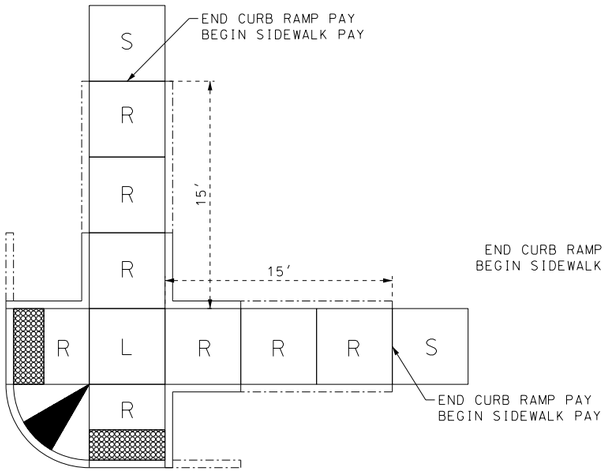
TYPE 3 PARALLEL



SMALL RADIUS PERPENDICULAR

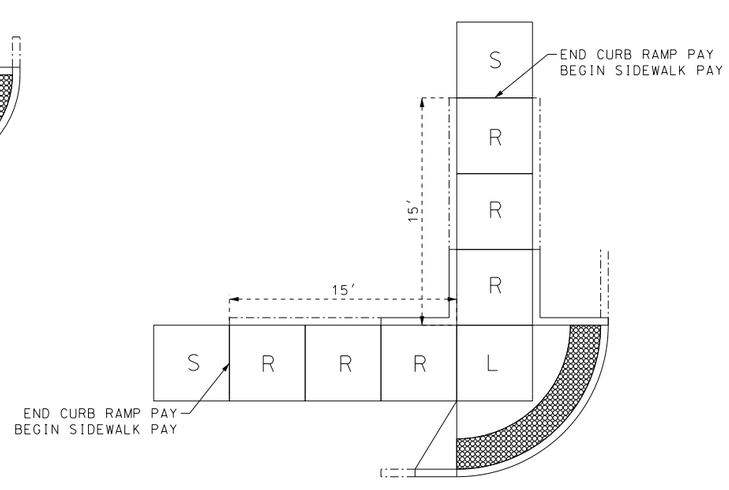


COMPOUND PERPENDICULAR



DUAL PERPENDICULAR
PAY AS 2 EACH

LARGE RADIUS PERPENDICULAR



BLENDED TRANSITION
PAY AS 2 EACH

Notes –
15 FEET OF WALKWAY SHALL BE INCLUDED IN CURB RAMP PAY, PER EACH, AS SHOWN.

L – LANDING OR CLEAR AREA FOR TURNING MOVEMENTS AND RESTS.
R – PAY AS RAMP
S – PAY AS SIDEWALK.

SEE JSP FOR OTHER INCIDENTALS INCLUDED IN CURB RAMP PAY.
SEE STANDARD PLANS 608 SERIES FOR DIMENTIONS, GRADES, AND OTHER REQUIREMENTS.
CONTRACTOR WILL HAVE OPTION TO CONSTRUCT RAMP WITH FLARE OR CURB FOR CERTAIN RAMPS ABOVE.

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SPECIAL CURB DESIGN SHEETS
SHEET 32A OF 32

STATE OF MISSOURI
DENNIS J KOSCIELSKI
NUMBER PE-2005000712
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED
7/25/2025

ROUTE	STATE
231	MO
DISTRICT	SHEET NO.
SL	482

COUNTY
ST. LOUIS

JOB NO.
J6S3631

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

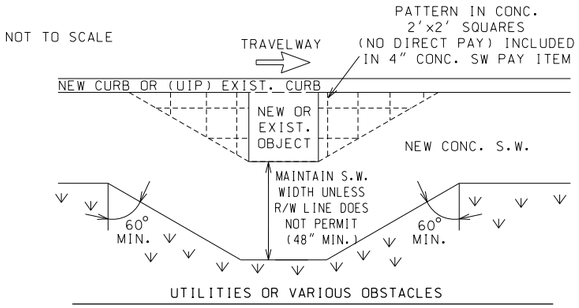
DESCRIPTION	DATE

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MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

SPECIAL SHEET
ADA CURB RAMP
PAY LIMITS

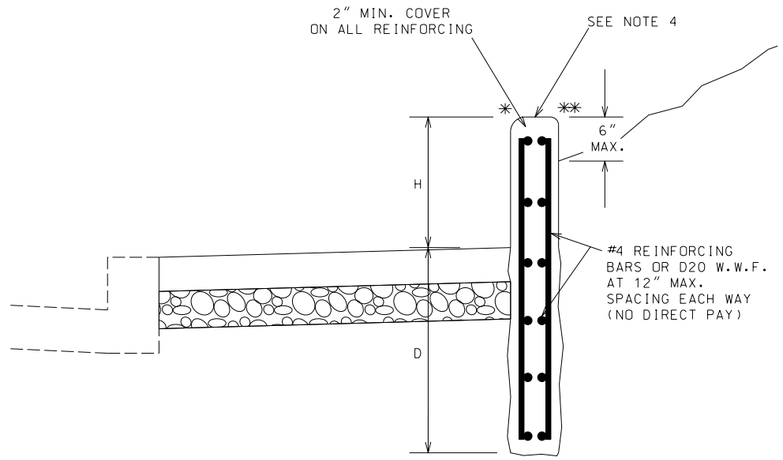
NOT TO SCALE



UTILITIES OR VARIOUS OBSTACLES

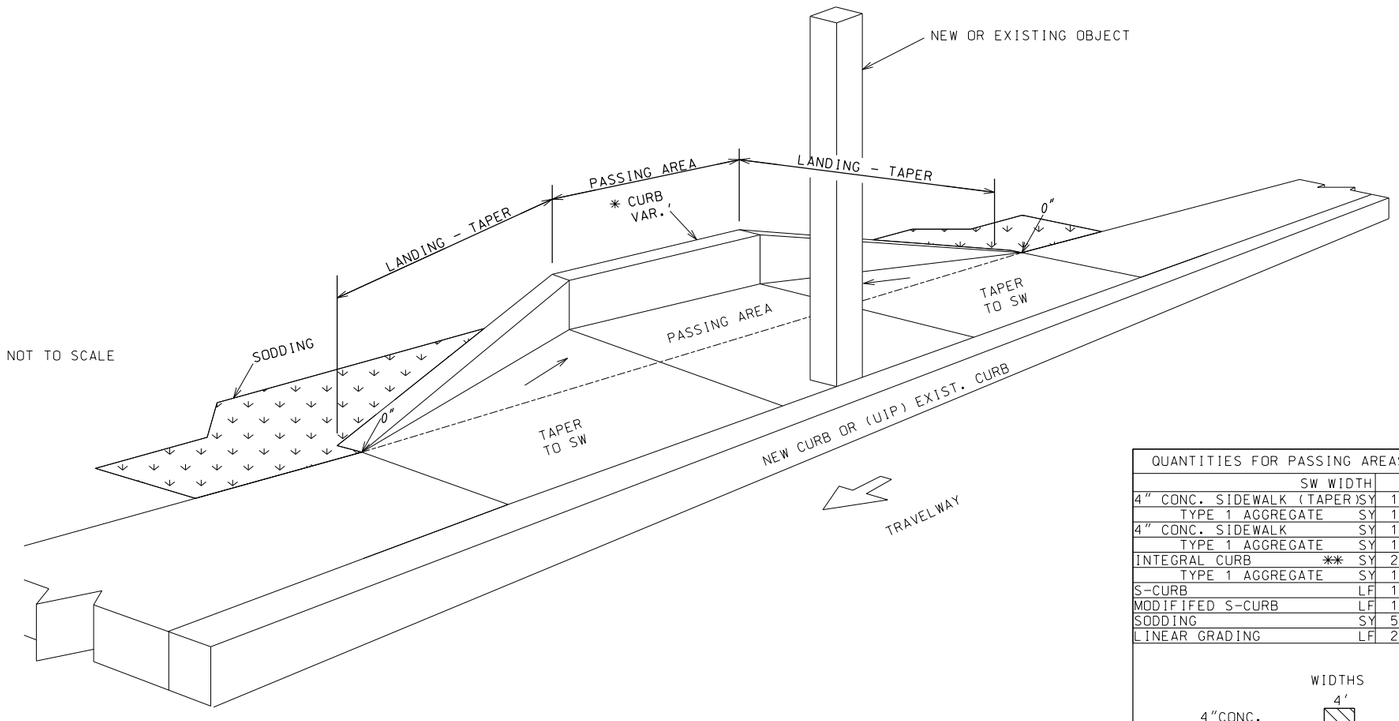
NO UTILITY POLES ARE ALLOWED IN THE RAMP LIMITS, BUT ARE PERMITTED IN THE LANDING AREAS AND SIDEWALK WITH A MINIMUM OF 4' CLEARANCE AROUND THE POLE

MISC. SPECIAL CURB FOR PASSING OBSTACLES
MODIFIED S-CURB
>12" TALL (2'-6" MAX.)



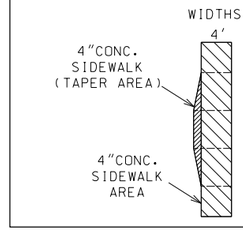
* ROUND TO 3/4" RADIUS
** ROUND TO 1/4" RADIUS
H = 2'-6" MAX. (30")
D = BURY DEPTH (FORMING NOT REQUIRED)
THIS SHALL BE 18 INCHES OR "H" WHICHEVER IS GREATER.
VERTICAL REINFORCING LENGTHS VARY AS NEEDED.
DEPTH MAY BE REDUCED IF KEYED 6" IN ROCK

NOT TO SCALE



NOT TO SCALE

QUANTITIES FOR PASSING AREAS			
	SW WIDTH		4'
4" CONC. SIDEWALK (TAPER)		SY	1.3
TYPE 1 AGGREGATE		SY	1.3
4" CONC. SIDEWALK		SY	10.4
TYPE 1 AGGREGATE		SY	10.4
INTEGRAL CURB	**	SY	2.0
TYPE 1 AGGREGATE		SY	1.0
S-CURB		LF	17.2
MODIFIED S-CURB		LF	17.2
SODDING		SY	53.0
LINEAR GRADING		LF	25.0



NOTES:

* 1. CURB MAY OR MAY NOT BE NEEDED DEPENDING ON FIELD CONDITIONS. IF CURB IS NEEDED, THE CURB HEIGHT WILL VARY DEPENDING ON FIELD CONDITIONS. (INTEGRAL CURB, S-CURB OR MOD. S-CURB).

2. S-CURB OVER 12" TALL IS PAID FOR AS 'MODIFIED S-CURB' AND REQUIRES REINFORCEMENT (NO DIRECT PAY). SEE DETAIL THIS SHEET.

** 3. INTEGRAL CURB IS PAID FOR IN THE 4" CONC. SIDEWALK PAY ITEM. PAID AS 1' ADDITIONAL SIDEWALK WIDTH. (EX. 6' SW PAID AS 7') (0.11 SY/LF OF CURB)

4. THE CURB SHALL BE 8" WIDE.

5. THIS ITEM SHALL BE INSTALLED AT LOCATIONS DESIGNATED BY THE ENGINEER.

6. THIS SHEET SHOWS THE REQUIREMENTS TO CONSTRUCT THE MISC. SPECIAL CURB TO PASS OBSTACLES. SEE JSP FOR ADDITIONAL DETAILS.

DISCLAIMER
THE PROFESSIONAL WHOSE SIGNATURE AND PERSONAL SEAL APPEAR HEREON ASSUMES RESPONSIBILITY ONLY FOR WHAT APPEARS ON THIS PAGE, AND DISCLAIMS (PURSUANT TO SECTION 327.411 RSMO) SPECIFICATION, ESTIMATES, REPORTS, OR OTHER DOCUMENTS OR INSTRUMENTS NOT SEALED BY THE UNDERSIGNED PROFESSIONAL RELATING TO OR INTENDED TO BE USED FOR ANY PART OR PARTS OF THE PROJECT TO WHICH THIS PAGE REFERS.

SPECIAL CURB DESIGN SHEETS
SHEET 32B OF 32

STATE OF MISSOURI
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