DESIGN DESIGNATION

A.A.D.T. - 2021 = SEE BELOW

N.= 8646 (N. of I-70) N.= 4960 (S. of I-70)
S.= 8603 (N. of I-70) S.= 4941 (S. of I-70)

A.A.D.T. - 2044 = SEE BELOW

D.H.V. = 8% - 12%
T = 5%
V = 35 M.P.H.
D = 50%

FUNCTIONAL CLASSIFICATION- MINOR ARTERIAL

ADDITIONAL R/W TO BE ACQUIRED FOR THIS PROJECT.

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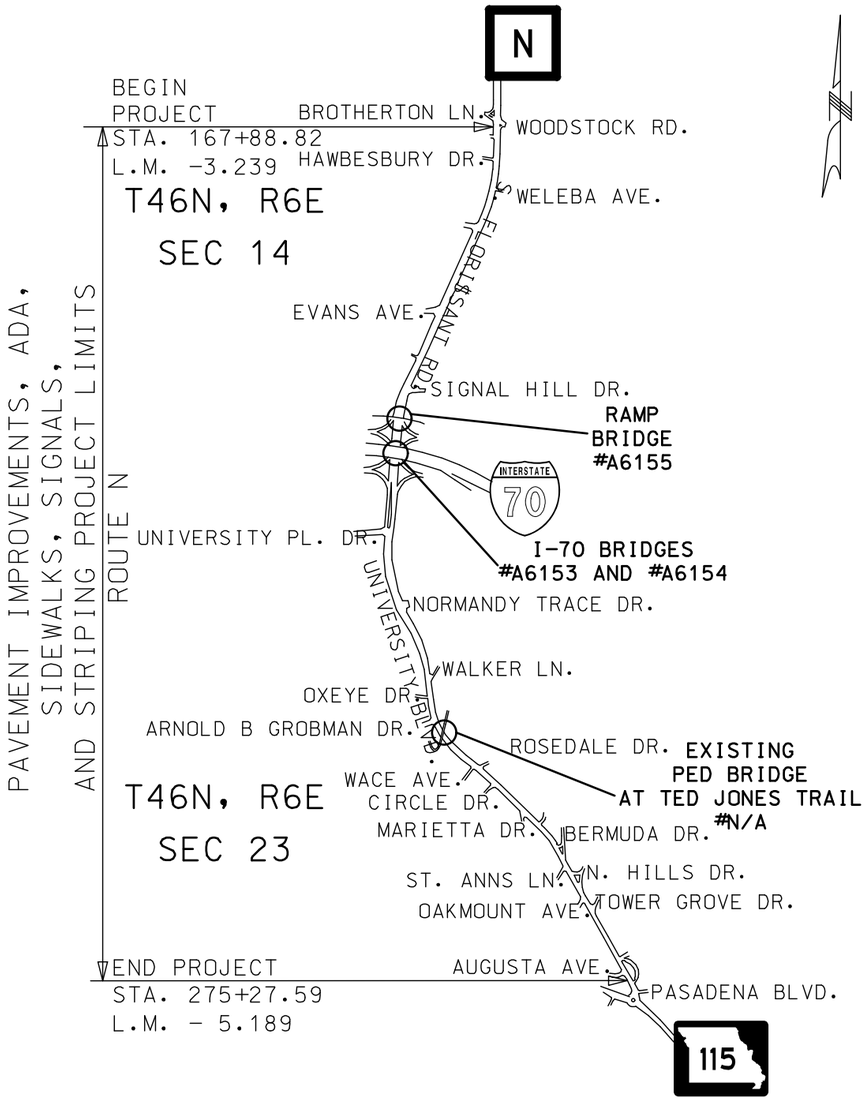
CONVENTIONAL SYMBOLS
(USED IN PLANS)

	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	-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-
MANHOLE	SAN	
FIRE HYDRANT	HYD	
WATER VALVE	WV	
WATER METER	WM	
DROP INLET	DI	
DITCH BLOCK		
GROUND MOUNTED SIGN	SIGN	
LIGHT POLE		
H-FRAME POWER POLE		
TELEPHONE PEDESTAL	PED	
FENCE		
CHAIN LINK	-V-	
WOVEN WIRE	-X-	
GATE POST		
BENCHMARK	BM	

NOTE: DASHED OR OPEN SYMBOLS INDICATE EXISTING FEATURES

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
PLANS FOR PROPOSED
STATE HIGHWAY
ST. LOUIS COUNTY

KEY MAP
LOCATION OF ST. LOUIS COUNTY



MSD STANDARD NOTES

MSD PERMITS ARE REQUIRED PRIOR TO THE ABANDONMENT OR REMOVAL OF EXISTING SEWERS. TO RECIEVE MSD PERMITS THE PROJECT MUST HAVE MSD PLAN APPROVAL. NOTIFY MSD 48 HOURS PRIOR TO SEWER ABANDONMENT AND/OR REMOVAL

ABANDONED SEWERS SHALL BE REMOVED OR COMPLETELY FILLED WITH GROUT

THE CONTRACTOR SHALL STAY WITHING THE LIMITS OF DISTURBANCE AS SHOWN ON THE PLANS AND MINIMIZE THE DISTURBANCE WITHIN THE WORK AREA WHEREVER POSSIBLE.

MANTAINANCE OF THE SEWERS DESIGNATED "MSD MAINTAINED" SHALL BE THE RESPONSIBILITY OF THE METROPOLITAN ST. LOUIS SEWER DISTRICT UPON DEDICATION OF THE SEWERS TO THE DISTRICT.

THE REMOVAL AND REPLACEMENT, OR REHABILITATION OF THE EXISTING 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.

THE PROJECT ENGINEER SHALL PROVIDE SHOP DRAWINGS DOR MSD STRUCTURES SIGNED AND SEALED BY A PROFESSIONAL ENGINEER LICENSED IN MISSOURI FOR APPROVAL TO MSD PRIOR TO CONSTRUCTION OF THESE STRUCTURES. STRUCTURES SHALL BE DESIGNED TO SUSTAIN HS-20 LOADS. PLEASE CONTACT THE DISTRICT'S CONSTRUCTION MANAGEMENT DIVISION AT (314) 335-2072 FOR QUESTIONS.

ALL STORM AND SANITARY SEWER STRUCTURES AND APPURTENANCES TO BE DEDICATED TO MSD, OR TO BE PRIVATE UNDER MSD INSPECTION, SHALL CONFORM TO THE METROPOLITAN ST. LOUIS SEWER DISTRICT, STANDARD CONSTRUCTION SPECIFICATIONS FOR SEWERS AND DRAINAGE FACILITIES, 2023.

PROJECT DISTURBANCE = 3.693 ACRES
PROJECT RUNOFF DIFFERENTIAL = 0.19 CFS

ANY FUTURE LAND DISTURBANCE AND/OR INCREASE IN IMPERVIOUS AREA ON THIS SITE MAY REQUIRE ADDITIONAL STORMWATER MANAGEMENT PER MSD REGULATIONS IN PLACE AT THAT TIME (INCLUDING TOTAL LAND DISTURBANCE AND/OR IMPERVIOUSNESS ADDED ON THIS PLAN.)

MSD PERMIT# 23MSD-00482
MSD BASE MAP NO. 13H, 14H

NOT TO SCALE

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.

INDEX OF SHEETS

DESCRIPTION	SHEET NUMBER
TITLE SHEET	1
TYPICAL SECTIONS (TS) (14 SHEETS)	2
QUANTITIES (QU) (25 SHEETS)	3
PLAN-PROFILE (PP)	4-18
GEOMETRIC SHEETS (GM)	19-23
REFERENCE POINTS (RP)	24
COORDINATE POINTS (CP)	25-26
RIGHT OF WAY (RW)	27-34
TRAFFIC CONTROL SHEETS (TC)	35-72
SPECIAL SHEETS (SS)(60 SHEETS)	73-121
EROSION CONTROL SHEETS (EC)	122-132
LIGHTING (LT)	133-136
SIGNALS (SG)(32 SHEETS)	137-167
MoDOT ITS (ITS)	168-174
SIGNING (SN)	175-199
PAVEMENT MARKING (PM)	200-210
DRAINAGE PLAN (DP)	211-213
CULVERT SECTIONS (CS)	214-218
BRIDGE DRAWINGS (B)	
A61532	1-2
A61542	1-2

LENGTH OF PROJECT

BEGINNING OF PROJECT	LM 3.239
END OF PROJECT	LM 5.189
APPARENT LENGTH	10,296.00 FEET
BRIDGE INFORMATION:	
NO EXCEPTIONS FOR BRIDGES	
TOTAL CORRECTIONS	0 FEET
NET LENGTH OF PROJECT	10,296.00 FEET
STATE LENGTH	1.95 MILES
FOR INFORMATION ONLY ESTIMATED DISTURBED ACRES	3.639 ACRES

STATE OF MISSOURI
JAMIE F. RANA
NUMBER PE-2005001034
PROFESSIONAL ENGINEER
Jamie F. Rana
02/22/2024 1:36:25 PM
JAMIE F. RANA - CIVIL
MO-PE-2005001034

DATE PREPARED: 2/22/2024

ROUTE	STATE
N	MO
DISTRICT	SHEET NO.
SL	1

COUNTY: ST. LOUIS
JOB NO.: J6S3599
CONTRACT ID.:
PROJECT NO.:
BRIDGE NO.:

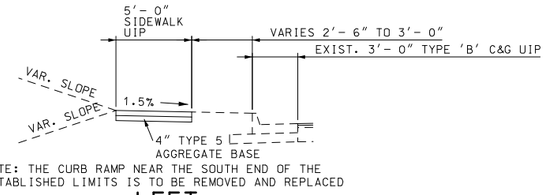
DATE	DESCRIPTION

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

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

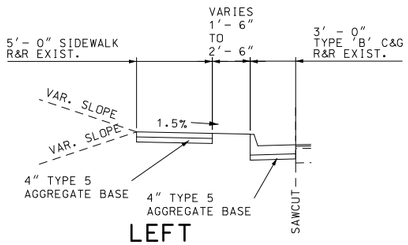
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

TITLE SHEET



NOTE: THE CURB RAMP NEAR THE SOUTH END OF THE ESTABLISHED LIMITS IS TO BE REMOVED AND REPLACED

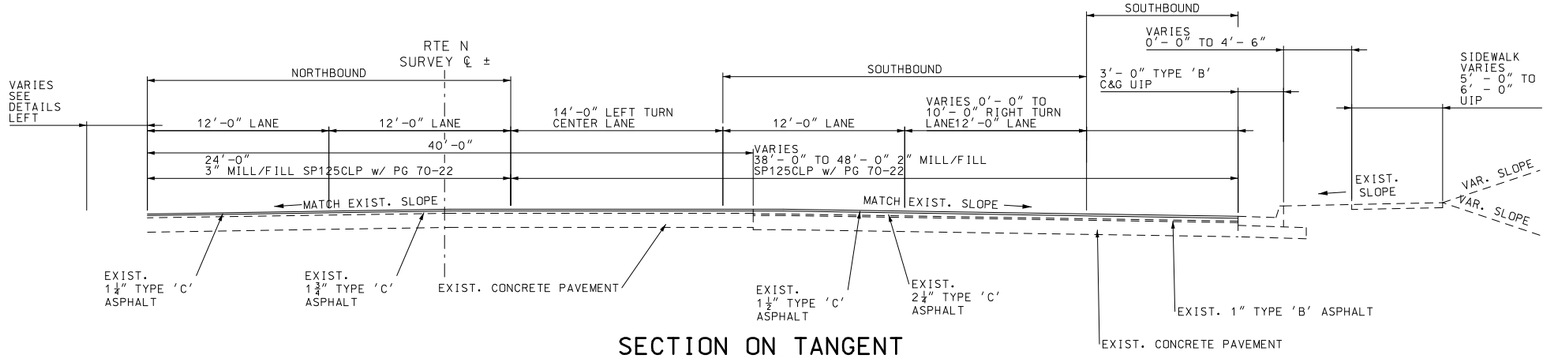
LEFT
183+63.5 TO 185+46.8



LEFT
185+46.8 TO 188+56.6

DISCLAIMER

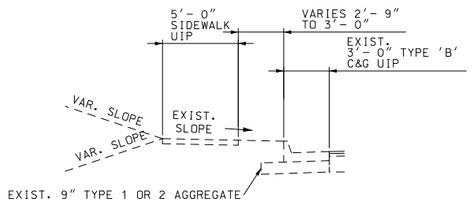
THE PROFESSIONAL WHOSE SIGNATURE AND PERSONAL SEAL APPEAR HEREON ASSUMES RESPONSIBILITY ONLY FOR WHAT APPEARS ON THIS PAGE, AND DISCLAIMS (PURSUANT TO SECTION 327.411 RSMO) SPECIFICATION, ESTIMATES, REPORTS, OR OTHER DOCUMENTS OR INSTRUMENTS NOT SEALED BY THE UNDERSIGNED PROFESSIONAL RELATING TO OR INTENDED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



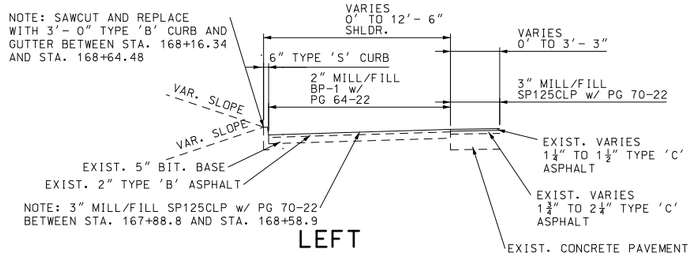
SECTION ON TANGENT

STA. 183+63.5 TO STA. 188+56.6

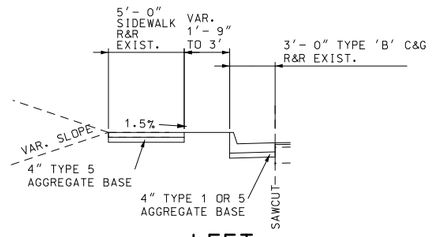
APPLICATION RATES:
SP125CLP APPLICATION RATE ESTIMATED AT 1.927 TON/CU.YD
BP-1 APPLICATION RATE ESTIMATED AT 1.948 TON/CU.YD
TACK COAT APPLICATION RATE ESTIMATED AT 0.13 GAL/SQ.YD FOR FIRST LIFT
TACK COAT APPLICATION RATE ESTIMATED AT 0.06 GAL/SQ.YD FOR SECOND LIFT



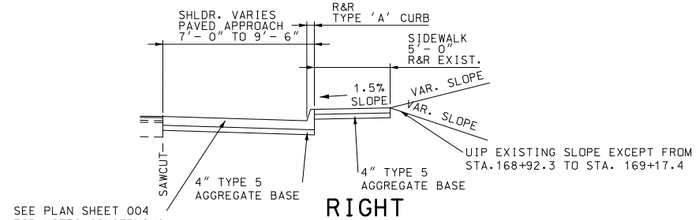
LEFT
182+93.4TO 183+63.5



LEFT
167+88.8 TO 170+69.8
172+94.2 TO 177+93.2

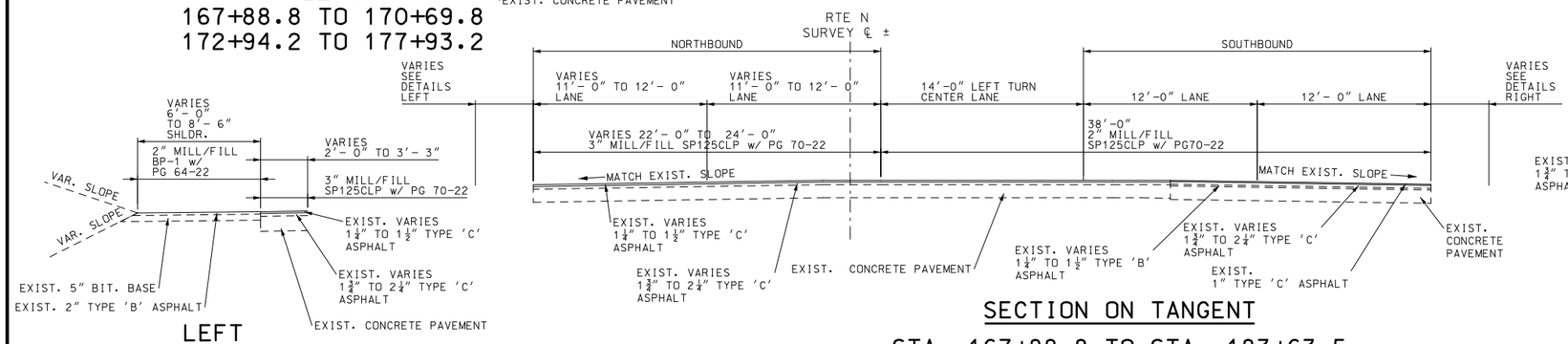


LEFT
177+93.2 TO 182+93.4



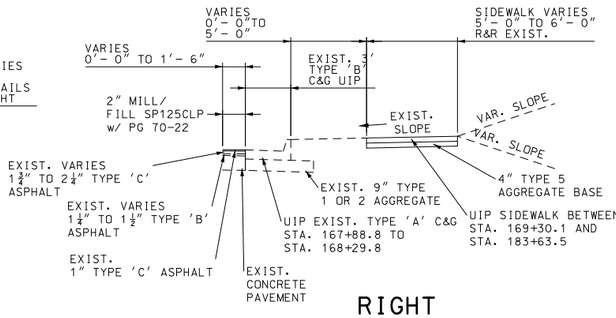
SEE PLAN SHEET 004 FOR NOTES CONCERNING SLOPE

RIGHT
168+29.8 TO 169+17.4



SECTION ON TANGENT

STA. 167+88.8 TO STA. 183+63.5



RIGHT
167+88.8 TO 168+29.8
169+17.4 TO 183+63.5

STATE OF MISSOURI
JAMIE F. RANA
NUMBER PE-2005001034
PROFESSIONAL ENGINEER
Jamie F. Rana
01/27/2024 12:51:00 PM
JAMIE F. RANA - CIVIL
MO-PE-2005001034

DATE PREPARED
1/25/2024

ROUTE	STATE
N	MO
DISTRICT	SHEET NO.
SL	2

COUNTY
ST. LOUIS

JOB NO.
J6S3599

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)

TYPICAL SECTION
SHEET 1 OF 14

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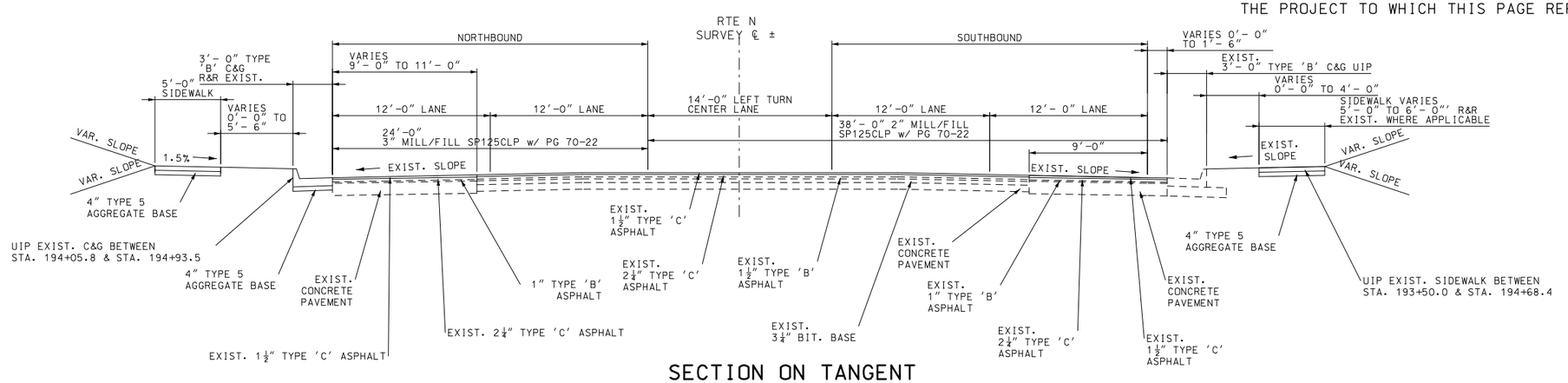
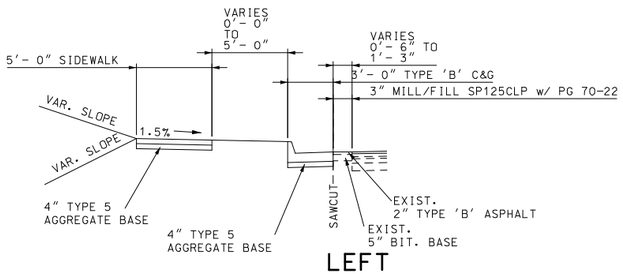


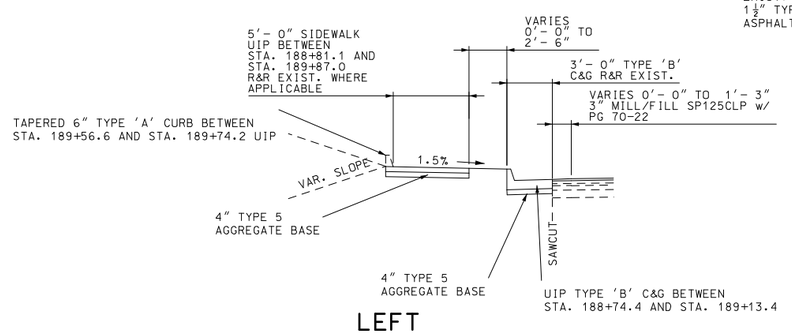
SECTION ON TANGENT

STA. 193+50.0 TO STA. 194+93.5



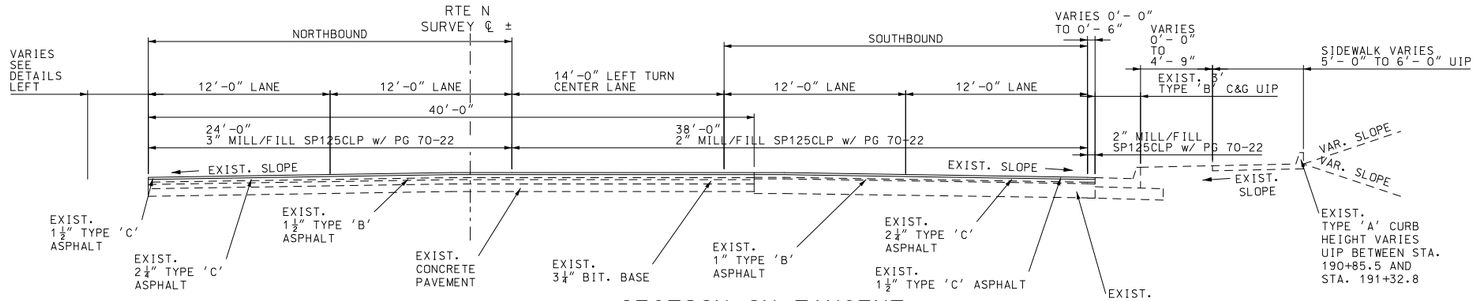
LEFT

191+50.0 TO 193+50.0



LEFT

188+56.6 TO 191+50.0



SECTION ON TANGENT

STA. 188+56.6 TO STA. 193+50.0

STATE OF MISSOURI
JAMIE F. RANA
NUMBER PE-2005001034
PROFESSIONAL ENGINEER
Jamie F. Rana
01/27/2024 2:28:34 PM
JAMIE F. RANA - CIVIL
MO-PE-2005001034

DATE PREPARED
1/25/2024

ROUTE	STATE
N	MO
DISTRICT	SHEET NO.
SL	2

COUNTY
ST. LOUIS

JOB NO.
J6S3599

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)

TYPICAL SECTION
SHEET 2 OF 14

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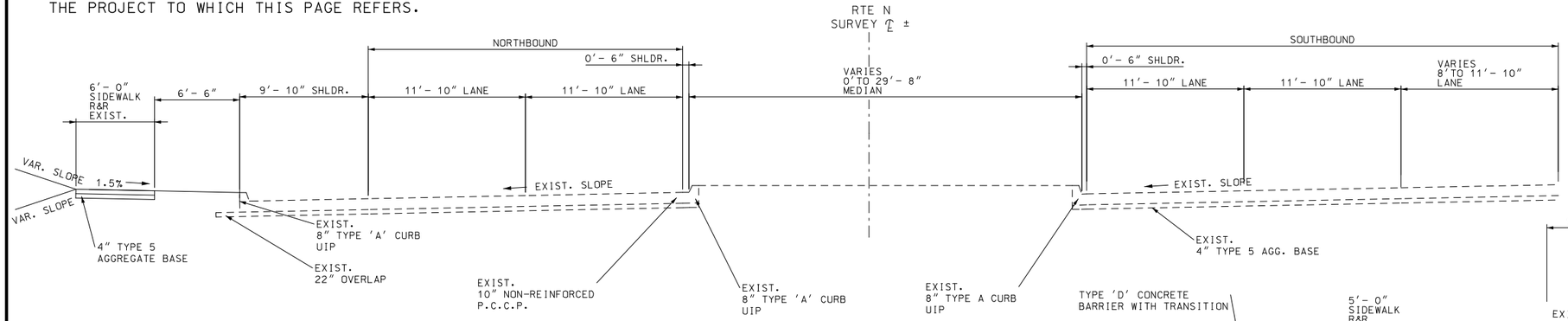
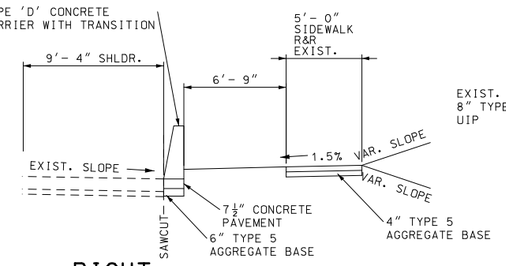
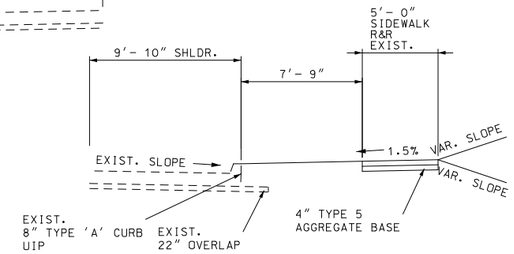


SECTION ON TANGENT

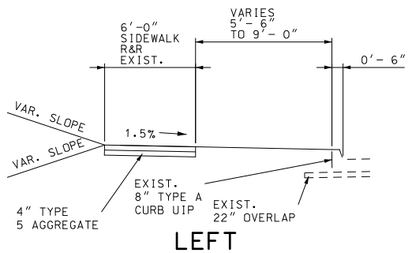
STA. 198+34.6 TO STA. 200+36.1



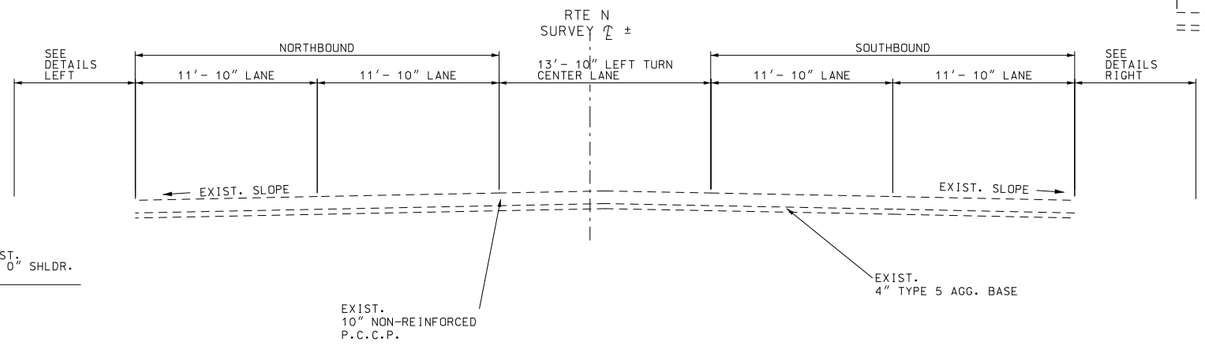
RIGHT
199+85.6 TO 200+36.1



RIGHT
198+34.6 TO 199+85.6

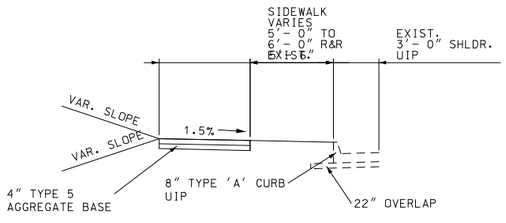


LEFT
196+30.1 TO 198+34.6



SECTION ON TANGENT

STA. 194+93.5 TO STA. 198+34.6



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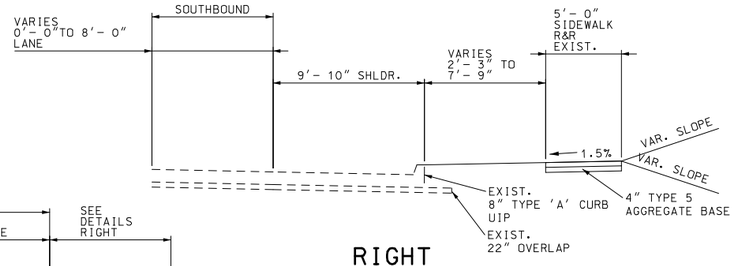
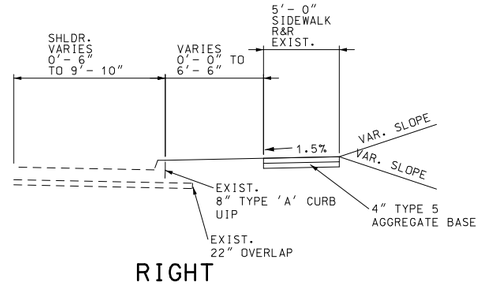
194+93.5 TO 196+30.1



RIGHT
197+30.0 TO 198+34.6



RIGHT
194+93.5 TO 197+30.0

STATE OF MISSOURI
JAMIE F. RANA
NUMBER PE-2005001034
PROFESSIONAL ENGINEER
Jamie F. Rana
01/27/2024 2:28:52 PM
JAMIE F. RANA - CIVIL
MO-PE-2005001034

DATE PREPARED
1/25/2024

ROUTE	STATE
N	MO
DISTRICT	SHEET NO.
SL	2

COUNTY
ST. LOUIS

JOB NO.
J6S3599

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)

TYPICAL SECTION
SHEET 3 OF 14

DISCLAIMER

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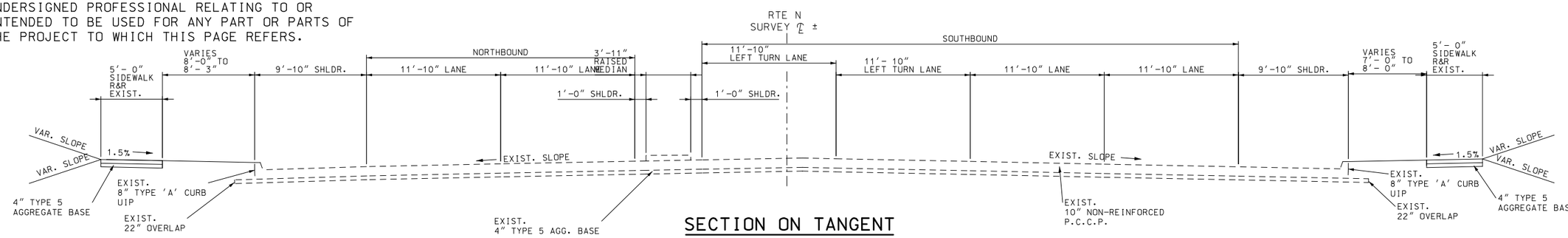
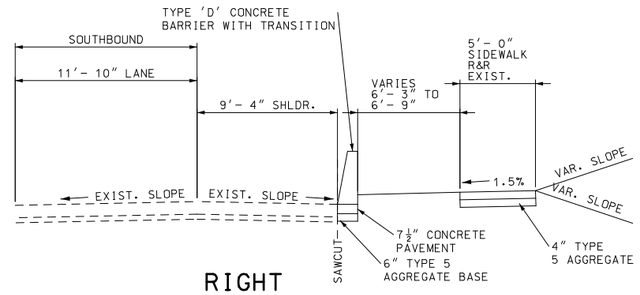


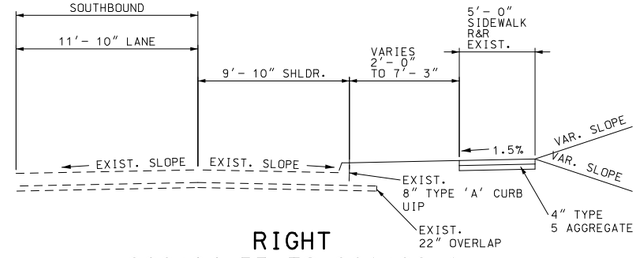
SECTION ON TANGENT

STA. 203+40.6 TO STA. 205+22.5



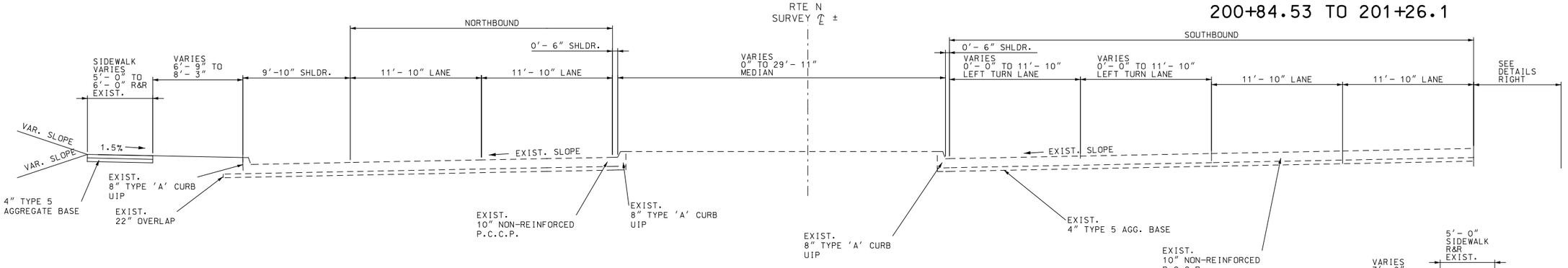
RIGHT

200+36.1 TO 200+84.53



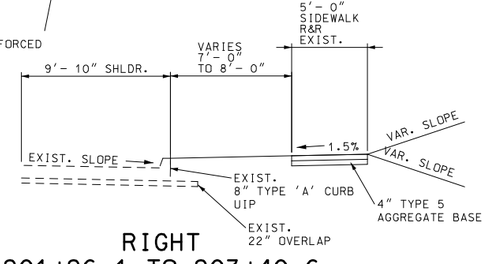
RIGHT

200+84.53 TO 201+26.1



SECTION ON TANGENT

STA. 200+36.1 TO STA. 203+40.6



RIGHT

201+26.1 TO 203+40.6

STATE OF MISSOURI
JAMIE F. RANA
NUMBER PE-2005001034
PROFESSIONAL ENGINEER

Jamie F. Rana
01/27/2024 2:29:20 PM
JAMIE F. RANA - CIVIL
MO-PE-2005001034

DATE PREPARED
1/25/2024

ROUTE	STATE
N	MO
DISTRICT	SHEET NO.
SL	2

COUNTY
ST. LOUIS

JOB NO.
J6S3599

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)

TYPICAL SECTION
SHEET 4 OF 14

DISCLAIMER

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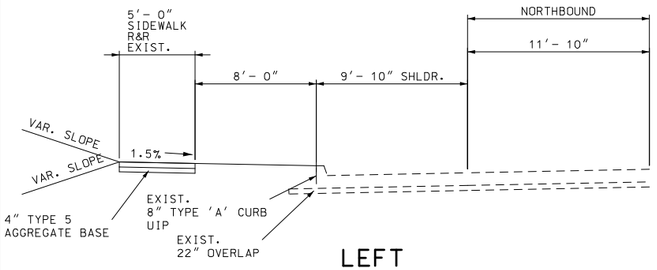
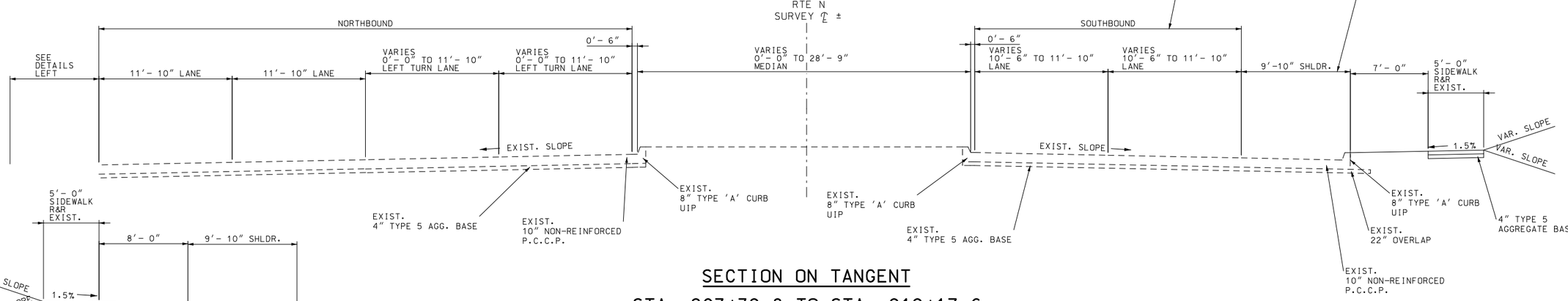


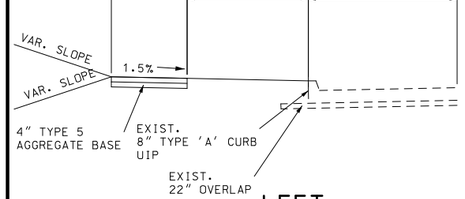
LEFT
208+95.9 TO 212+17.6

NOTE: SOUTHBOUND LANES TRANSITION FROM 11'- 10" TO 10'- 6" FROM STA. 211+31.4 TO STA. 212+31.4

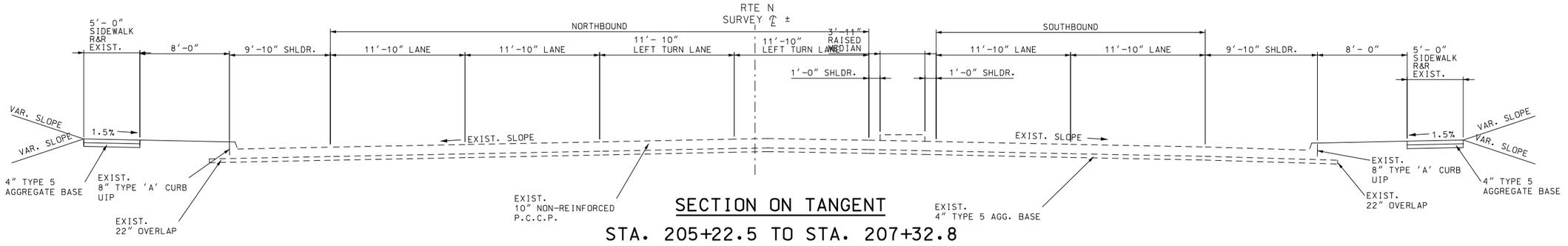
NOTE: SHOULDER TRANSITIONS FROM 9'- 10" TO 10'- 6" RT. TURN LANE FROM STA. 211+31.4 TO STA. 212+31.4



SECTION ON TANGENT
STA. 207+32.8 TO STA. 212+17.6



LEFT
207+32.8 TO 208+95.9



SECTION ON TANGENT
STA. 205+22.5 TO STA. 207+32.8

STATE OF MISSOURI
JAMIE F. RANA
NUMBER PE-2005001034
PROFESSIONAL ENGINEER
Jami F. Rana
01/27/2024 2:29:45 PM
JAMIE F. RANA - CIVIL
MO-PE-2005001034

DATE PREPARED
1/25/2024

ROUTE	STATE
N	MO
DISTRICT	SHEET NO.
SL	2

COUNTY
ST. LOUIS

JOB NO.
J6S3599

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)

TYPICAL SECTION
SHEET 5 OF 14

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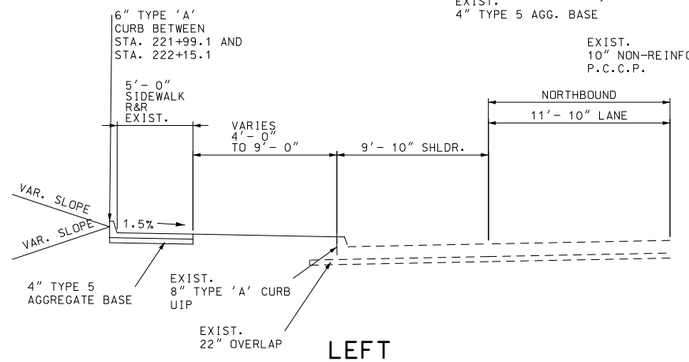
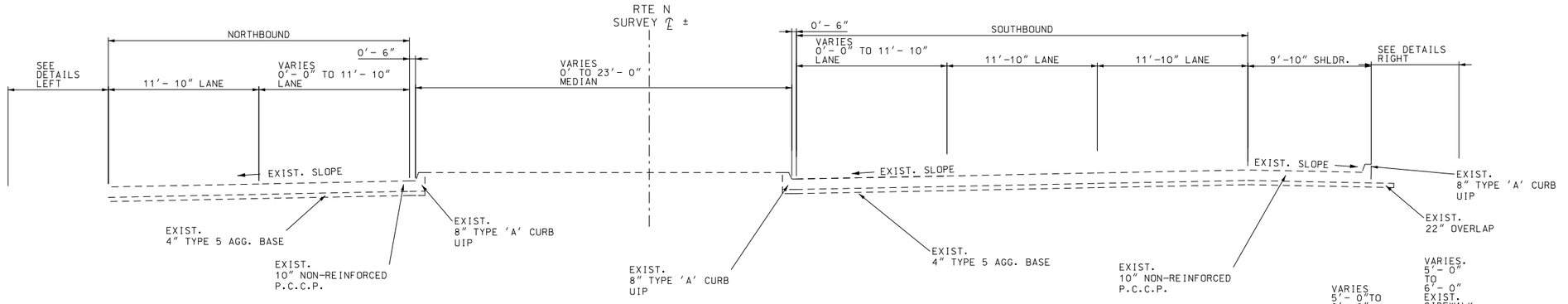


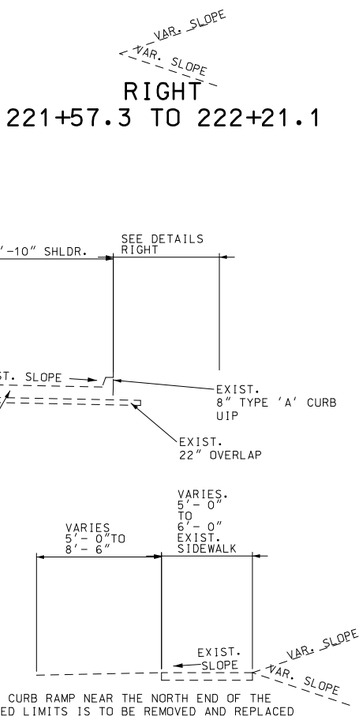
LEFT

214+01.4 TO 222+21.1



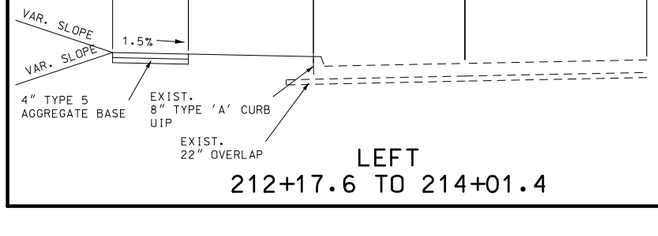
SECTION ON TANGENT

STA. 214+01.4 TO STA. 222+21.1



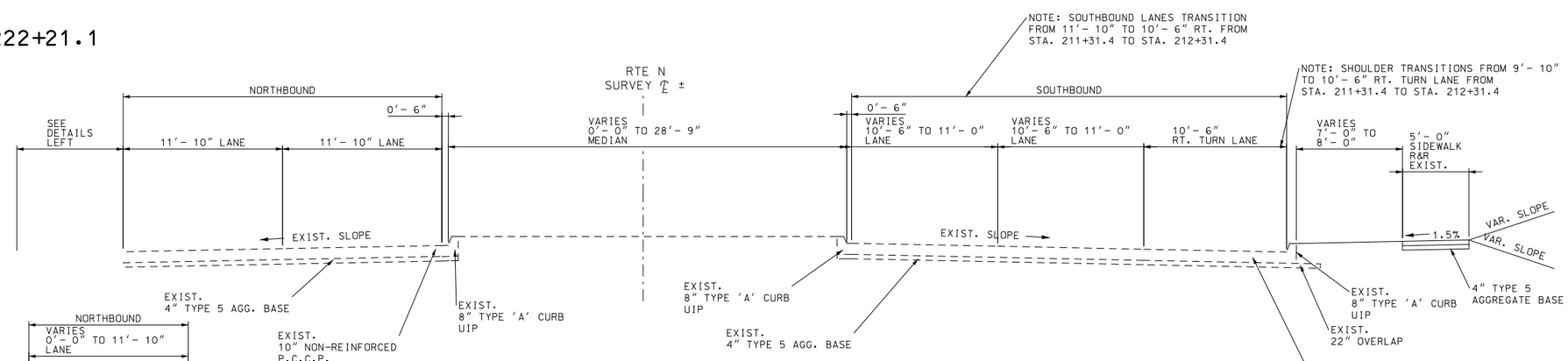
RIGHT

214+01.4 TO 221+57.3



LEFT

212+17.6 TO 214+01.4



SECTION ON TANGENT

STA. 212+17.6 TO STA. 214+01.4

STATE OF MISSOURI
JAMIE F. RANA
NUMBER PE-2005001034
PROFESSIONAL ENGINEER
Jami F. Rana
01/27/2024 2:30:09 PM
JAMIE F. RANA - CIVIL
MO-PE-2005001034

DATE PREPARED
1/25/2024

ROUTE	STATE
N	MO
DISTRICT	SHEET NO.
SL	2

COUNTY
ST. LOUIS

JOB NO.
J6S3599

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)

TYPICAL SECTION
SHEET 6 OF 14

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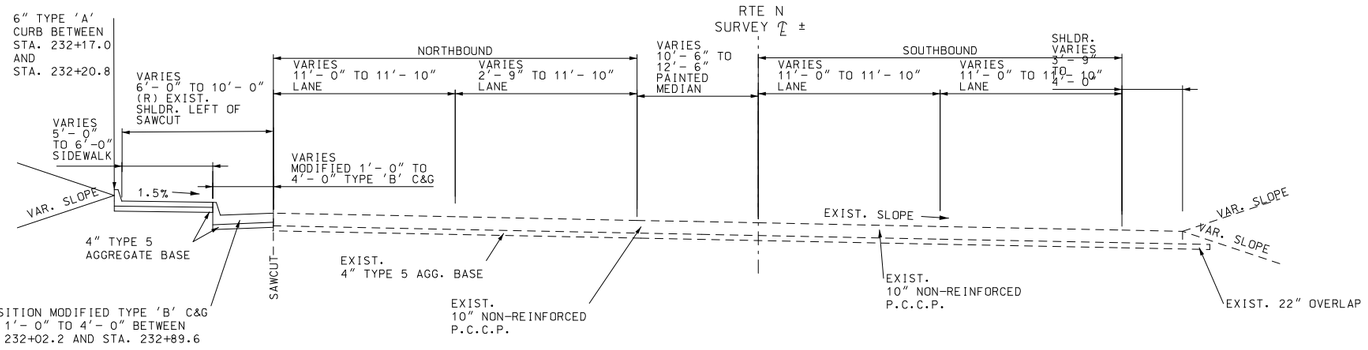
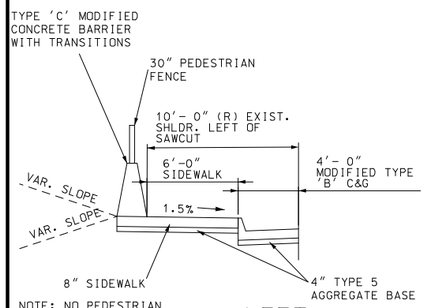


SECTION ON TANGENT

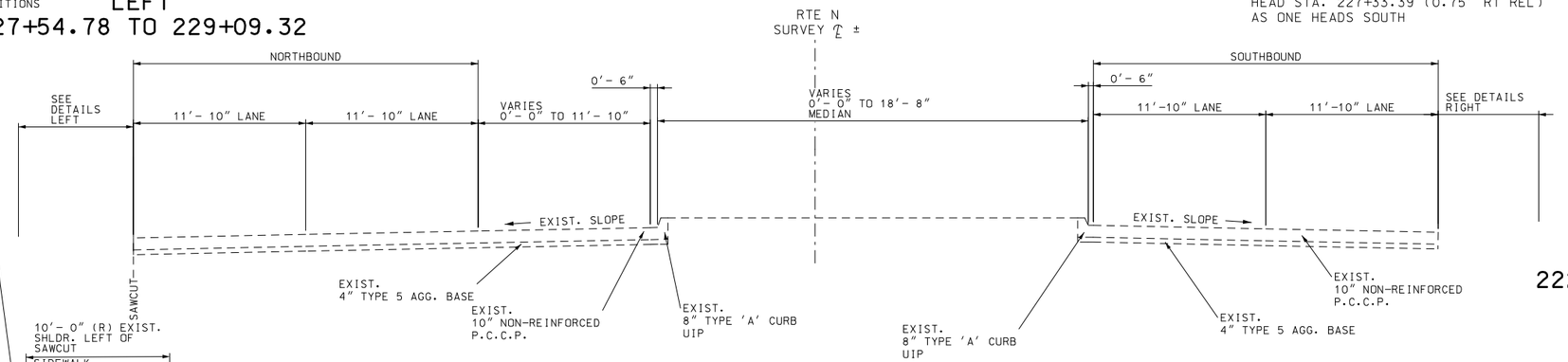
STA. 231+29.7 TO STA. 232+20.8

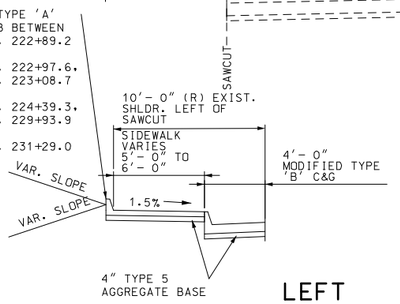


NOTE: NO PEDESTRIAN FENCE ON TRANSITIONS

LEFT
227+54.78 TO 229+09.32

NOTE: STA. EQUATION
BACK STA. 224+83.19 EQUALS
HEAD STA. 227+33.39 (0.75' RT REL)
AS ONE HEADS SOUTH

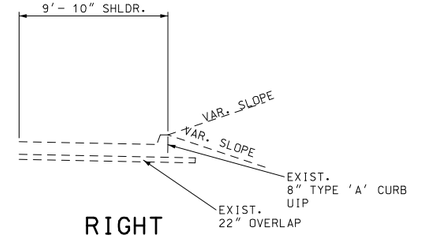




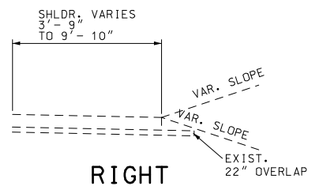
LEFT
222+21.1 TO 224+83.19
227+33.39 TO 227+54.78
229+09.32 TO 231+29.7

SECTION ON TANGENT SUPERELEVATION VARIES

BK. STA. 222+21.1 TO STA. 224+83.19
AH. STA. 227+33.39 TO STA. 231+29.7



RIGHT
222+21.1 TO 224+30.1



RIGHT
224+30.1 TO 231+29.7

STATE OF MISSOURI
JAMIE F. RANA
NUMBER PE-2005001034
PROFESSIONAL ENGINEER
Jamie F. Rana
01/27/2024 2:30:30 PM
JAMIE F. RANA - CIVIL
MO-PE-2005001034

DATE PREPARED
1/25/2024

ROUTE	STATE
N	MO
DISTRICT	SHEET NO.
SL	2

COUNTY
ST. LOUIS

JOB NO.
J6S3599

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)

TYPICAL SECTION
SHEET 7 OF 14

DISCLAIMER

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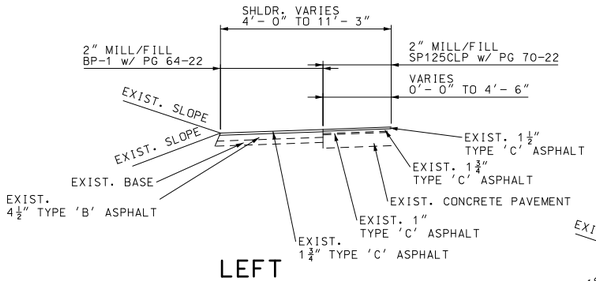
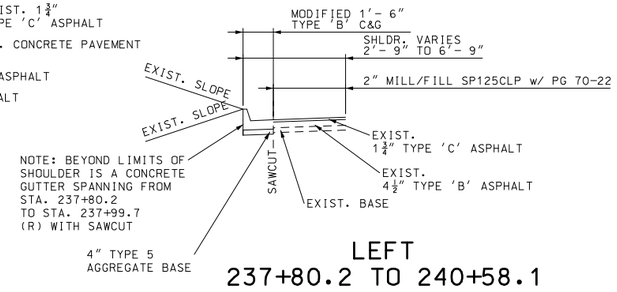
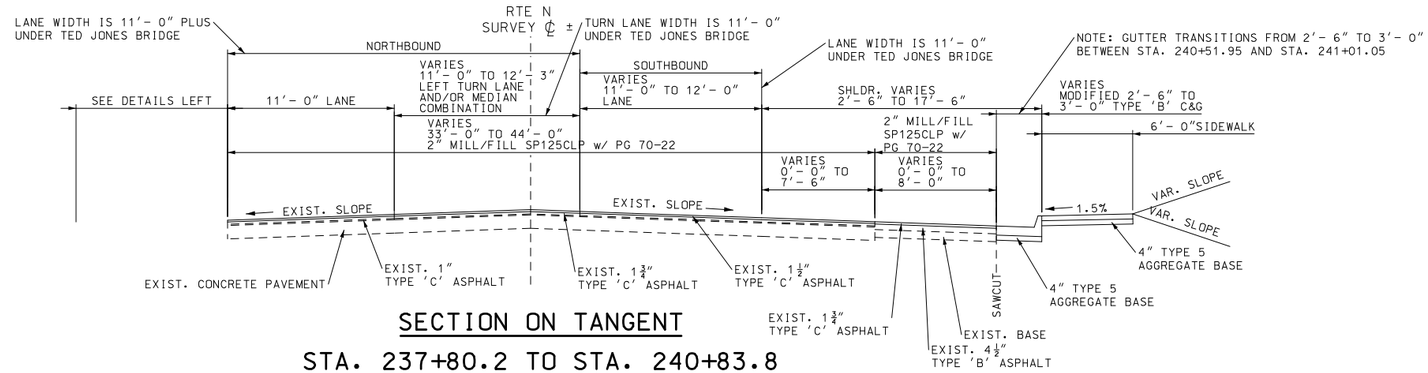


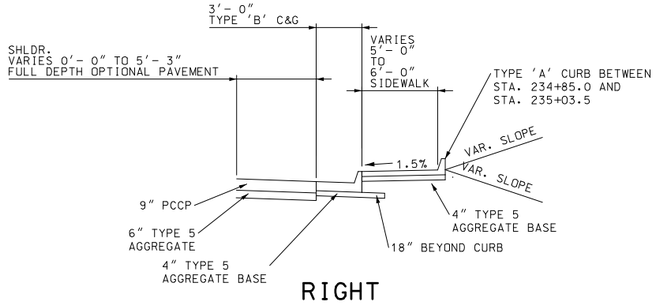
LEFT
240+58.1 TO 240+83.8



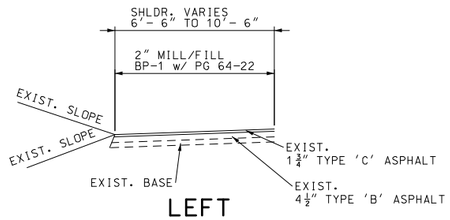
LEFT
237+80.2 TO 240+58.1



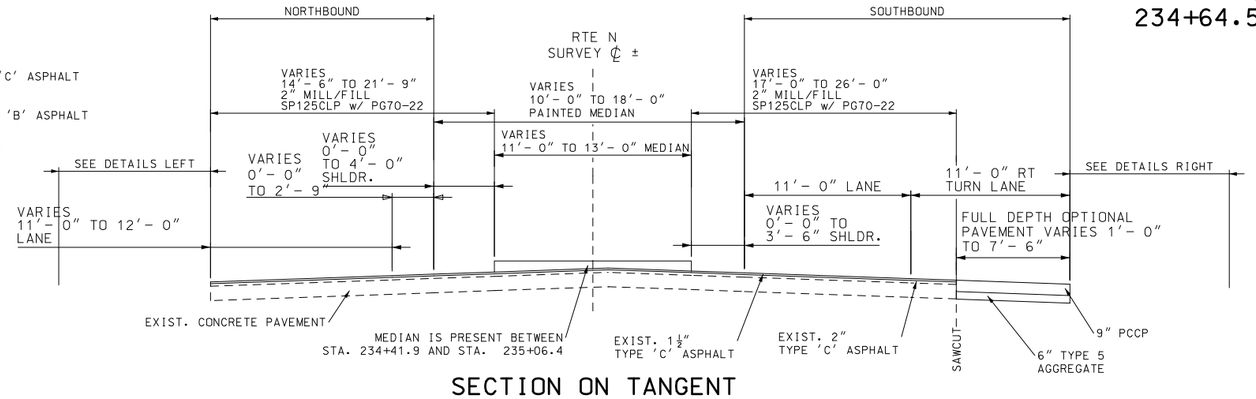
SECTION ON TANGENT
STA. 237+80.2 TO STA. 240+83.8



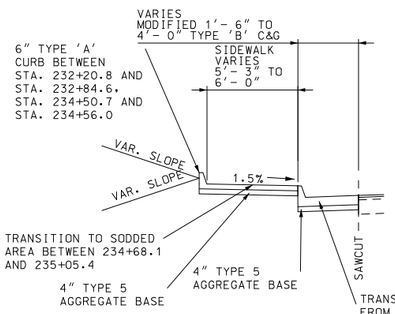
RIGHT
234+64.5 TO 237+80.2



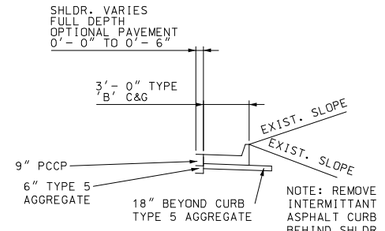
LEFT
235+05.4 TO 237+80.2



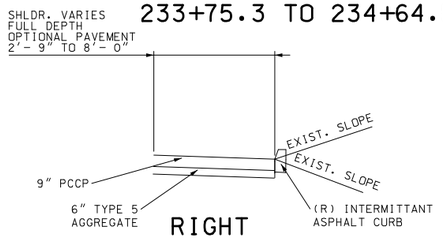
SECTION ON TANGENT
STA. 232+20.8 TO STA. 237+80.2



LEFT
232+20.8 TO 235+05.4



RIGHT
233+75.3 TO 234+64.5



RIGHT
232+20.8 TO 233+75.3

STATE OF MISSOURI
JAMIE F. RANA
NUMBER PE-2005001034
PROFESSIONAL ENGINEER
Jamie F. Rana
01/27/2024 2:31:08 PM
JAMIE F. RANA - CIVIL
MO-PE-2005001034
DATE PREPARED
1/25/2024

ROUTE	STATE
N	MO
DISTRICT	SHEET NO.
SL	2

COUNTY
ST. LOUIS
JOB NO.
J6S3599
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)

TYPICAL SECTION
SHEET 8 OF 14

DISCLAIMER

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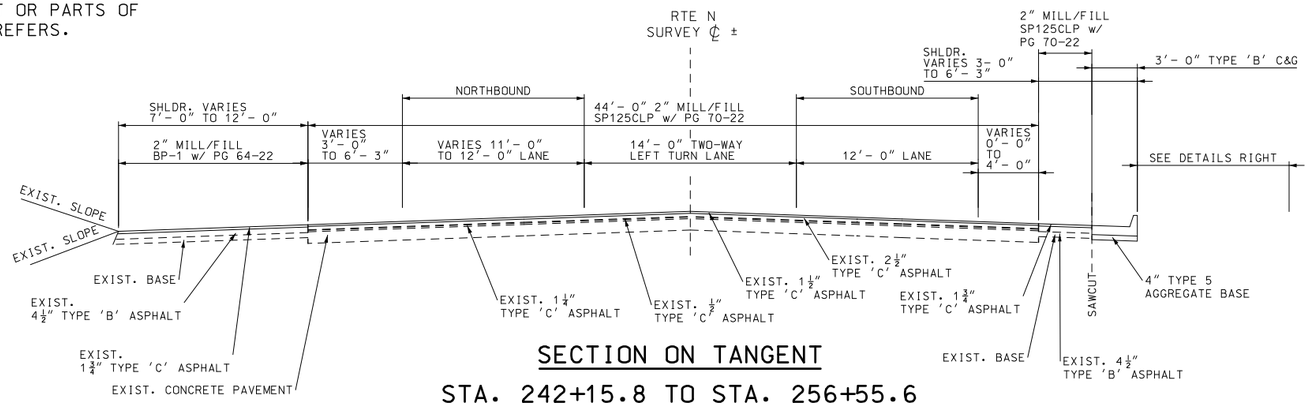
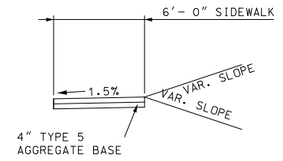


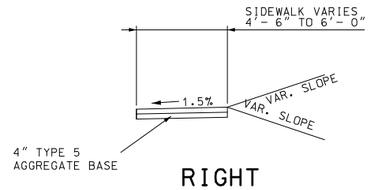
SECTION ON TANGENT

STA. 242+15.8 TO STA. 256+55.6



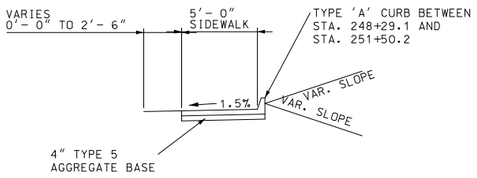
RIGHT

242+15.8+ TO 246+20.0



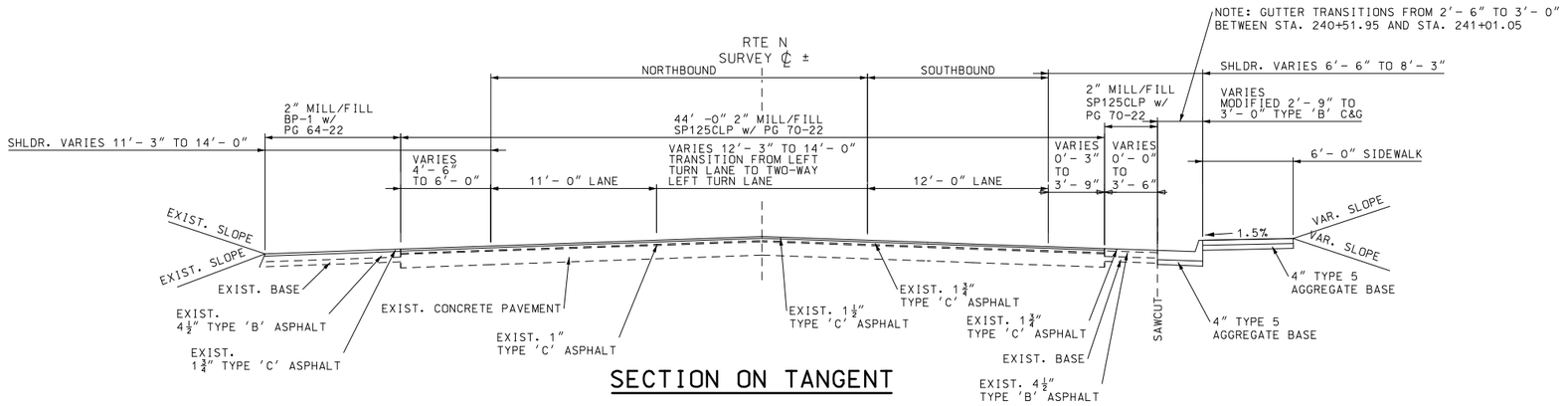
RIGHT

246+20.0 TO 247+72.8



RIGHT

247+72.8 TO 256+55.6



SECTION ON TANGENT

STA. 240+83.8 TO STA. 242+15.8

STATE OF MISSOURI
JAMIE F. RANA
NUMBER PE-2005001034
PROFESSIONAL ENGINEER
Jamie F. Rana
01/27/2024 2:31:42 PM
JAMIE F. RANA - CIVIL
MO-PE-2005001034

DATE PREPARED
1/25/2024

ROUTE	STATE
N	MO
DISTRICT	SHEET NO.
SL	2

COUNTY
ST. LOUIS

JOB NO.
J6S3599

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)

TYPICAL SECTION
SHEET 9 OF 14

DISCLAIMER

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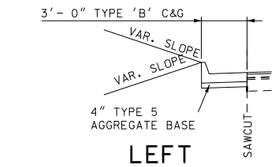
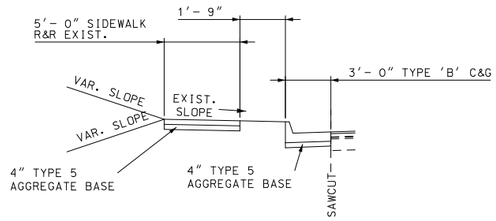
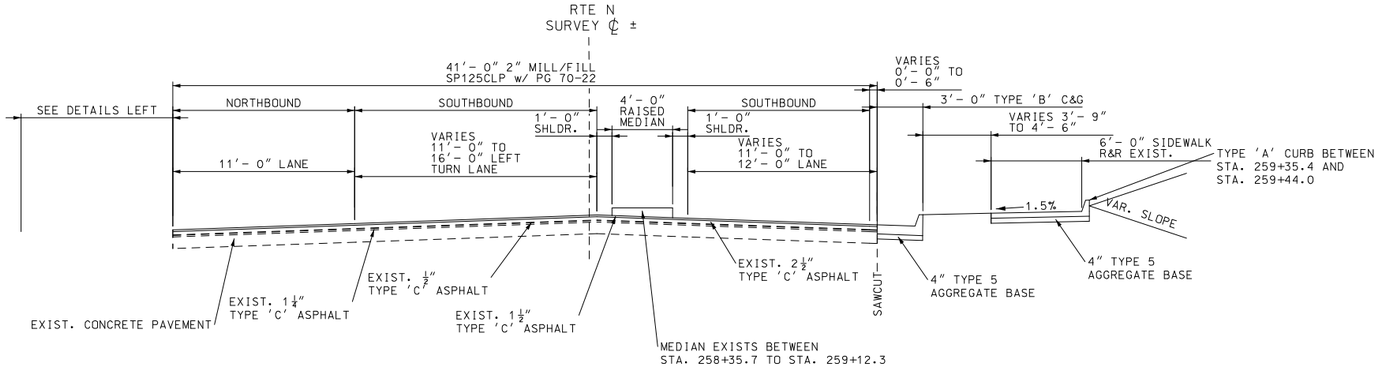


LEFT
257+55.1 TO 259+50.1

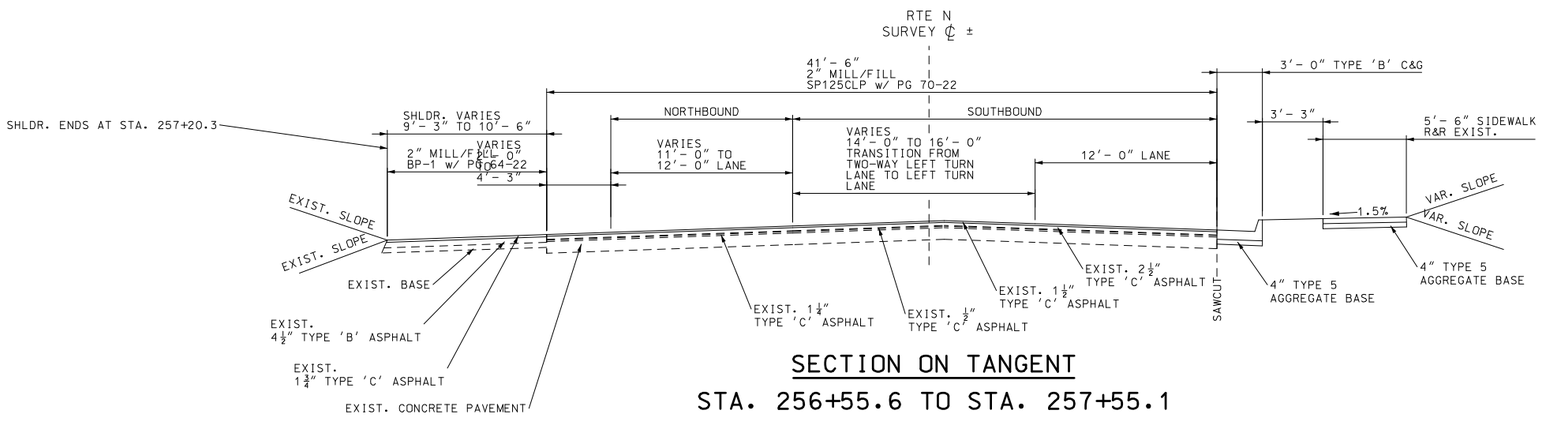


LEFT
259+50.1 TO 259+64.7



SECTION ON TANGENT

STA. 257+55.1 TO STA. 259+64.7



SECTION ON TANGENT

STA. 256+55.6 TO STA. 257+55.1

STATE OF MISSOURI
JAMIE F. RANA
NUMBER PE-2005001034
PROFESSIONAL ENGINEER
Jamie F. Rana
01/27/2024 2:21:50 PM
JAMIE F. RANA - CIVIL
MO-PE-2005001034

DATE PREPARED
1/25/2024

ROUTE	STATE
N	MO
DISTRICT	SHEET NO.
SL	2

COUNTY
ST. LOUIS

JOB NO.
J6S3599

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)

TYPICAL SECTION
SHEET 10 OF 14

DISCLAIMER

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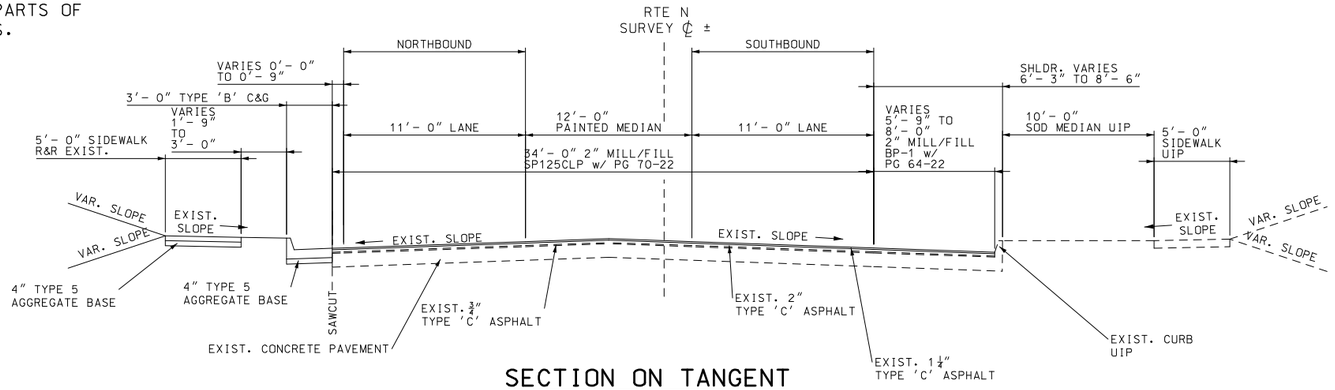
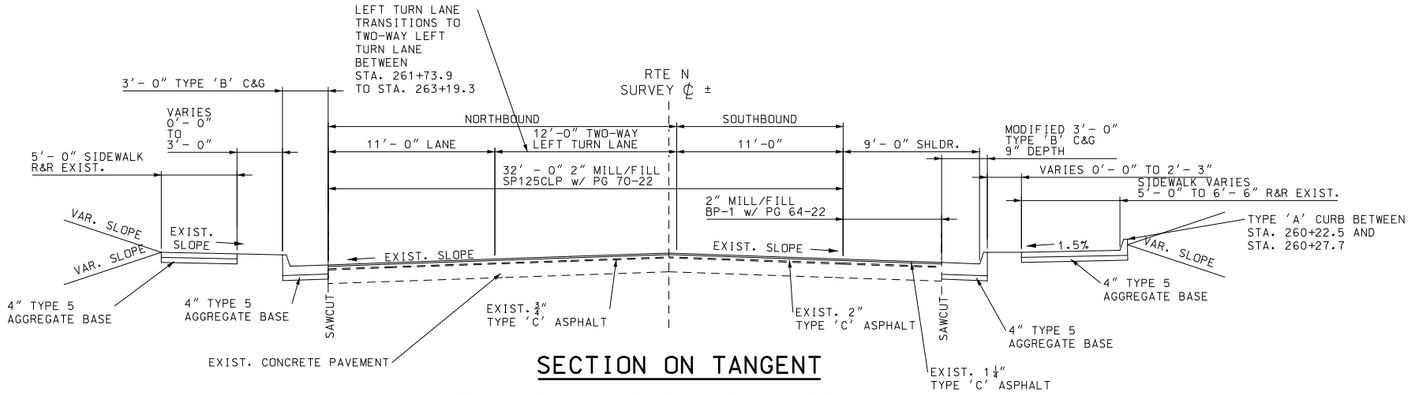


SECTION ON TANGENT

STA. 273+14.6 TO STA. 274+70.2



SECTION ON TANGENT

STA. 259+64.7 TO STA. 273+14.6

STATE OF MISSOURI
JAMIE F. RANA
NUMBER PE-2005001034
PROFESSIONAL ENGINEER

Jamie F. Rana
01/27/2024 2:22:08 PM
JAMIE F. RANA - CIVIL
MO-PE-2005001034

DATE PREPARED
1/25/2024

ROUTE	STATE
N	MO
DISTRICT	SHEET NO.
SL	2

COUNTY
ST. LOUIS

JOB NO.
J6S3599

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)

TYPICAL SECTION
SHEET 11 OF 14

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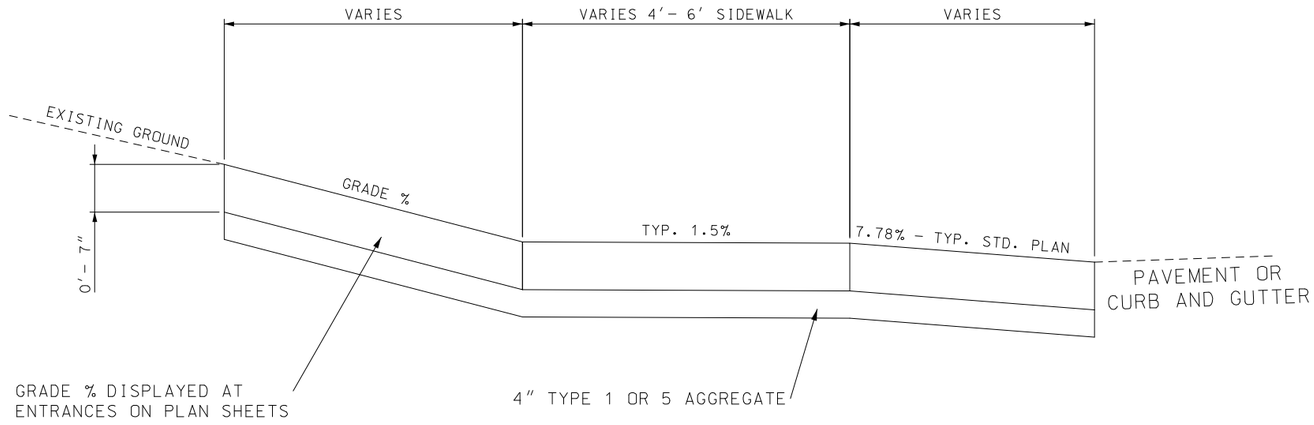
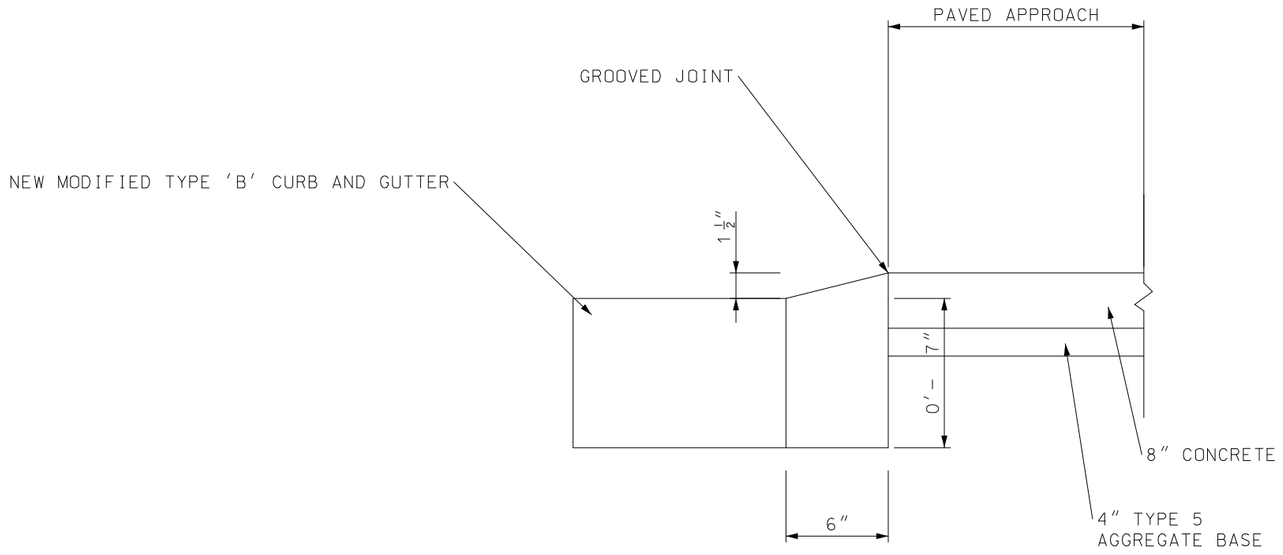
ENTRANCE DETAIL



ALTERNATE ENTRANCE DETAIL 1



NOTE: IF AN ENTRANCE DOES NOT FOLLOW THE PROFILE DISPLAYED ON THIS SHEET, A TAILORED PROFILE WILL BE PROVIDED.

NOT TO SCALE

STATE OF MISSOURI
JAMIE F. RANA
NUMBER PE-2005001034
PROFESSIONAL ENGINEER
Jamie F. Rana
01/27/2024 2:22:30 PM
JAMIE F. RANA - CIVIL
MO-PE-2005001034

DATE PREPARED
1/25/2024

ROUTE	STATE
N	MO
DISTRICT	SHEET NO.
SL	2

COUNTY
ST. LOUIS

JOB NO.
J6S3599

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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TYPICAL SECTION
SHEET 12 OF 14

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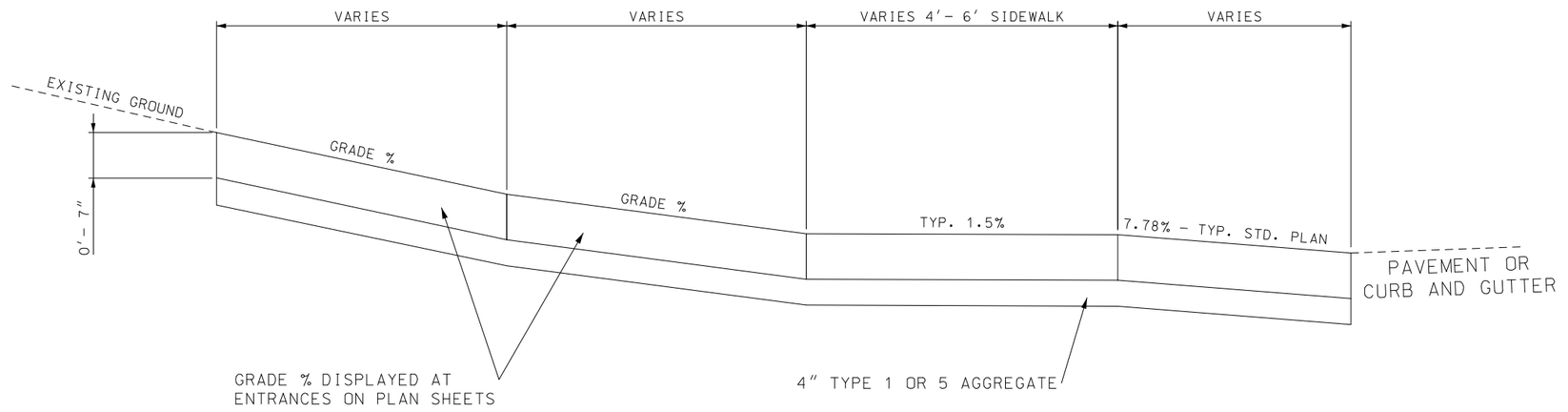
ALTERNATE ENTRANCE DETAIL 2



NOTE: IF AN ENTRANCE DOES NOT FOLLOW THE PROFILE DISPLAYED ON THIS SHEET, A TAILORED PROFILE WILL BE PROVIDED.

NOT TO SCALE

STATE OF MISSOURI
JAMIE F. RANA
NUMBER PE-2005001034
PROFESSIONAL ENGINEER
Jamie F. Rana
01/27/2024 2:22:51 PM
JAMIE F. RANA - CIVIL
MO-PE-2005001034

DATE PREPARED
1/25/2024

ROUTE	STATE
N	MO
DISTRICT	SHEET NO.
SL	2

COUNTY
ST. LOUIS

JOB NO.
J6S3599

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)

TYPICAL SECTION
SHEET 13 OF 14

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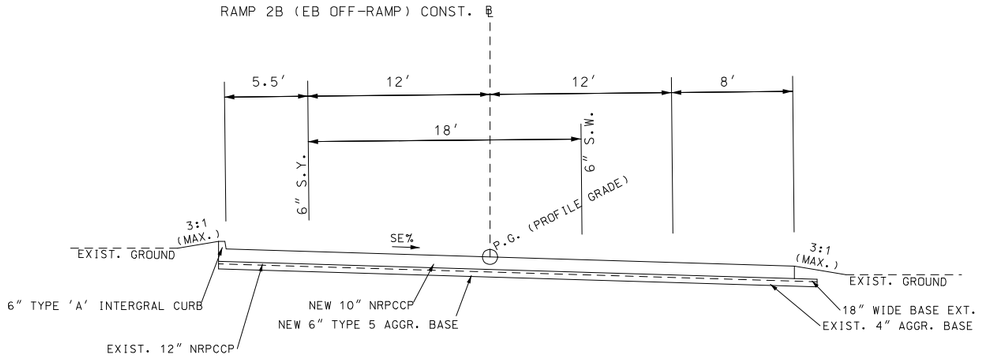
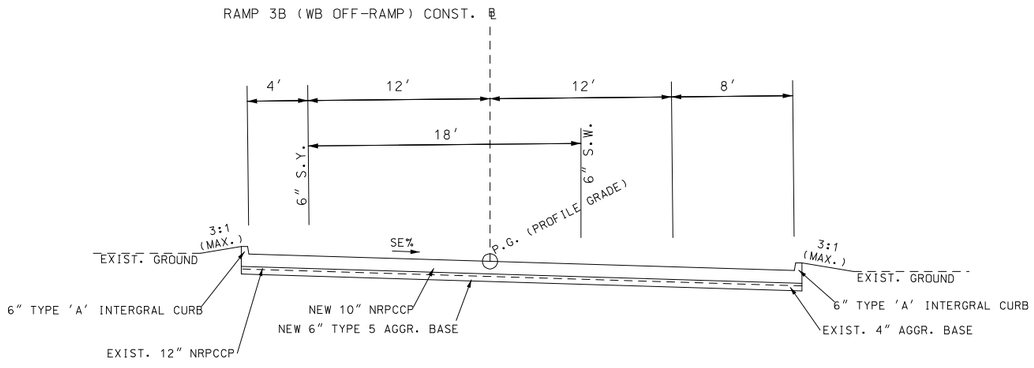


RAMP 2B
SECTION ON SUPERELEVATION
STA. 2+08.71 TO STA. 3+26.8



RAMP 3B
SECTION ON SUPERELEVATION
STA. 1+99.58 TO STA. 3+04.2

STATE OF MISSOURI
JAMIE F. RANA
NUMBER PE-2005001034
PROFESSIONAL ENGINEER
Jamie F. Rana
01/27/2024 2:23:13 PM
JAMIE F. RANA - CIVIL
MO-PE-2005001034

DATE PREPARED
1/25/2024

ROUTE	STATE
N	MO
DISTRICT	SHEET NO.
SL	2

COUNTY
ST. LOUIS

JOB NO.
J6S3599

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)

TYPICAL SECTION
SHEET 14 OF 14

REMOVAL OF IMPROVEMENTS - SIGNS (1 OF 3)

PLAN SHEET NO.	ROADWAY	STATION	STATION	LOCATION	DESCRIPTION OF REMOVAL
175	RTE. N	169+08	-	LT.	35 MPH S.L. SIGN
175	RTE. N	169+94	-	LT.	NO PARKING ANY TIME SIGN
175	RTE. N	168+60	-	RT.	30 MPH S.L. SIGN
176	RTE. N	171+04	-	LT.	SCHOOL CROSSING & AHEAD SIGNS
176	RTE. N	173+94	-	LT.	STOP SIGN
176	RTE. N	173+01	-	LT.	NO PARKING ANY TIME SIGN
176	RTE. N	175+21	-	LT.	NO PARKING ANY TIME SIGN
176	RTE. N	177+20	-	RT.	NO PARKING ANY TIME SIGN
176	RTE. N	171+01	-	RT.	STOP SIGN
176	RTE. N	174+32	-	RT.	SCHOOL CROSSING & AHEAD SIGNS
177	RTE. N	179+23	-	LT.	SCHOOL CROSSING & AHEAD SIGNS
177	RTE. N	181+40	-	LT.	CENTER LANE SIGN
177	RTE. N	182+78	-	LT.	SCHOOL CROSSING & AHEAD SIGNS
177	RTE. N	179+22	-	RT.	SCHOOL CROSSING & AHEAD SIGNS
177	RTE. N	182+75	-	RT.	CENTER LANE SIGN
177	RTE. N	185+07	-	LT.	30 MPH S.L. SIGN
178	RTE. N	185+38	-	LT.	STOP SIGN
178	RTE. N	192+43	-	?	ADOPT A HWY SIGN
178	RTE. N	188+22	-	RT.	YIELD
178	RTE. N	188+69	-	RT.	DOUBLE DOWN ARROW (W12-1) SIGN
178	RTE. N	189+11	-	RT.	KEEP RIGHT SIGN
178	RTE. N	191+30	-	RT.	NO PARKING SIGN
178	RTE. N	192+40	-	RT.	30 MPH S.L. SIGN
179	RTE. N	196+78	-	LT.	30 MPH S.L. SIGN
179	RTE. N	197+71	-	LT.	YIELD SIGN
179	RTE. N	197+98	-	LT.	STOP SIGN & DOUBLE DOWN ARROW SIGN
179	RTE. N	198+39	-	MEDIAN	KEEP RT. SIGN
179	RTE. N	194+64	-	RT.	STOP SIGN
179	RTE. N	195+48	-	RT.	70 JCT. SIGNS
179	RTE. N	195+91	-	RT.	G.M. SIGN - ST. LOUIS & ST. CHARLES
179	RTE. N	197+71	-	RT.	SIGN ASSEMBLY - I-70
180	RTE. N	201+91	-	LT.	YIELD SIGN
180	RTE. N	203+38	-	LT.	KEEP RT. SIGN
180	RTE. N	200+77	-	RT.	OVERHEAD TRUSS SIGN
180	RTE. N	-	-	RT.	BR. MOUNT SIGN
180	RTE. N	201+83	-	RT.	KEEP RT. SIGN
				PAY TOTAL	1 LUMP SUM

NOTE: MULTIPLE TABLES FOR REMOVAL OF IMPROVEMENTS ARE SHOWN ON QTY. SHEETS.
ALL REMOVALS LISTED IN THESE TABLES TO BE INCLUDED WITHIN THAT 1 LUMP SUM PAY ITEM.

ADDITIONAL MOBILIZATION FOR SEEDING

LOCATION	ADDITIONAL MOBILIZATION FOR SEEDING EACH	REMARKS
NORTH OF 70 - WEST SIDE OF RTE. N	X	
NORTH OF 70 - EAST SIDE OF RTE. N	1	
FROM 70 TO PED. BRIDGE - WEST SIDE OF RTE. N	1	
FROM 70 TO PED. BRIDGE - EAST SIDE OF RTE. N	1	
PED. BRIDGE TO 115 - WEST SIDE OF RTE. N	1	
PED BRIDGE TO 115 - EAST SIDE OF RTE. N	1	
PAY TOTAL	5	

NOTE: THERE IS NO SEEDING SETUP FOR THIS PROJECT.
NOTE: PAY ITEM COVERS ADDITIONAL MOBILIZATIONS FOR SODDING CONTRACTOR.
NOTE: NO ADDITIONAL MOBILIZATIONS WILL BE PAID UNLESS APPROVED BY THE ENGINEER.
NOTE: X INDICATES INITIAL MOBILIZATION FOR CONTRACTOR.

MOBILIZATION

PAY TOTAL	1 LUMP SUM

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POT HOLING FOR UTILITY FACILITIES

ROADWAY	LOCATION	# OF POTHOLES	REMARKS
RTE. N	COOL VALLEY ELEM. SIGNAL	8	
RTE. N	I-70 SIGNAL	8	
RTE. N	UNIV. PLACE DR. SIGNAL	5	
RTE. N	RRFB	4	
RTE. N	BERMUDA/ST. ANN'S LN. SIGNAL	8	
RTE. N	ADDITIONAL LOCATIONS	20	
	SUBTOTAL	53	
	PAY TOTAL	1 LUMP SUM	

NOTE: NO ADDITIONAL PAY FOR LOCATIONS ADDED NOT NOTED ABOVE.
NOTE: SIGNAL LOCATIONS INCLUDE BOTH POLES FOR TRAFFIC & PEDS.

CLEARING & GRUBBING

PLAN SHEET NO.	ROADWAY	STATION	STATION	LOCATION	LENGTH FT.	WIDTH FT.	AREA S.F.	CLEARING & GRUBBING AC.	REMARKS
13	RTE. N	237+48.3	238+80.3	EAST SIDE - N. OF PED. BRIDGE	132	10	1320	0.03	
14	RTE. N	239+63.2	241+98.2	EAST SIDE - S. OF PED. BRIDGE	235	10	2350	0.05	
15	RTE. N	248+14.1	251+65.3	WEST SIDE - BETWEEN CIRCLE DR. & MARIETTA DR.	351	5	1755	0.04	
							SUBTOTAL	0.12	
							PAY TOTAL	1	

NOTE: CLEARING & GRUBBING IS INCIDENTAL FOR ALL AREAS UNLESS LISTED ABOVE.

LANDSCAPING BRICK PAVERS FOR RETAINING WALLS

PLAN SHEET NO.	PARCEL #	REMOVE & REINSTALL LANDSCAPING BRICK PAVERS USED FOR RETAINING WALLS LF	REMARKS
17	26	17	
18	28	17	
18	31	102	
PAY TOTAL		136	

TRAFFIC SIGNAL MAINTENANCE & PROGRAMMING

PAY TOTAL	1 LUMP SUM

LUMP SUM TEMPORARY TRAFFIC CONTROL

PAY TOTAL	1 LUMP SUM

CONTRACTOR FURNISHED SURVEYING

PAY TOTAL	1 LUMP SUM

STATE OF MISSOURI
JAMIE F. RANA
NUMBER PE-2005001034
PROFESSIONAL ENGINEER
Jami F. Rana
01/27/2024 2:37:32 PM
JAMIE F. RANA - CIVIL
MO-PE-2005001034

DATE PREPARED: 1/25/2024

ROUTE	STATE
N	MO
DISTRICT	SHEET NO.
SL	3

COUNTY: ST. LOUIS
JOB NO.: J6S3599
CONTRACT ID.:
PROJECT NO.:
BRIDGE NO.:

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

REV.	DESCRIPTION	DATE

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

SUMMARY OF QUANTITIES
SHEET 1 OF 25

NOTE: MULTIPLE TABLES FOR REMOVAL OF IMPROVEMENTS ARE SHOWN ON QTY. SHEETS.
ALL REMOVALS LISTED IN THESE TABLES TO BE INCLUDED WITHIN THAT 1 LUMP SUM PAY ITEM.

REMOVAL OF IMPROVEMENTS – SIGNS (2 OF 3)

PLAN SHEET NO.	ROADWAY	STATION	STATION	LOCATION	DESCRIPTION OF REMOVAL
181	RTE. N	208+67	–	MEDIAN	11'x4' OVERHEAD SIGN
181	RTE. N	209+89	–	LT.	30 MPH S.L. SIGN
181	RTE. N	210+06	–	LT.	7'x4' OVERHEAD SIGN
181	RTE. N	208+88	–	LT.	DOUBLE DOWN ARROW (W12-1) SIGN
181	RTE. N	212+47	–	LT.	G.M. SIGN – ST. LOUIS & ST. CHARLES
181	RTE. N	214+33	–	LT.	SIGN ASSEMBLY – I-70
181	RTE. N	207+36	–	RT.	KEEP RT. SIGN
181	RTE. N	208+70	–	RT.	YIELD SIGN
181	RTE. N	209+79	–	RT.	35 MPH S.L. SIGN
181	RTE. N	210+48	–	RT.	DO NOT DRIVE ON SHOULDER
181	RTE. N	211+25	–	RT.	RTE. N SIGN
181	RTE. N	212+45	–	RT.	DO NOT DRIVE ON SHOULDER
181	RTE. N	213+65	–	RT.	KEEP RT. SIGN
181	RTE. N	214+01	–	RT.	KEEP RT. SIGN
181	RTE. N	214+64	–	RT.	KEEP RT. SIGN
182	RTE. N	216+57	–	LT.	JCT. 70 SIGNS
182	RTE. N	221+45	–	MEDIAN	KEEP RT. SIGN
182	RTE. N	222+06	–	LT.	STOP SIGN
183	RTE. N	224+72	–	LT.	STOP SIGN
183	RTE. N	223+01	–	MEDIAN	KEEP RT. SIGN
183	RTE. N	224+32	–	MEDIAN	KEEP RT. SIGN
183	RTE. N	227+87	–	MEDIAN	KEEP RT. SIGN
183	RTE. N	231+28	–	MEDIAN	KEEP RT. SIGN
184	RTE. N	232+39	–	LT.	NO PARKING SIGN
184	RTE. N	233+11	–	LT.	STOP SIGN
184	RTE. N	235+84	–	LT.	35 MPH S.L. SIGN
184	RTE. N	239+07	–	LT.	3 – OBJECT MARKER (OM3-L) SIGNS
184	RTE. N	238+41	–	RT.	STOP SIGN
185	RTE. N	239+71	–	LT.	3 – OBJECT MARKER (OM3-R) SIGNS
185	RTE. N	243+55	–	LT.	NO PARKING SIGN
185	RTE. N	245+29	–	LT.	STOP SIGN
185	RTE. N	239+54	–	RT.	3 – OBJECT MARKER (OM3-R) SIGNS
185	RTE. N	240+04	–	RT.	3 – OBJECT MARKER (OM3-L) SIGNS
185	RTE. N	244+64	–	RT.	NO TRUCK SIGNS
185	RTE. N	244+95	–	RT.	STOP SIGN
185	RTE. N	245+42	–	RT.	NO PARKING SIGN
				PAY TOTAL	1 LUMP SUM

TEMPORARY PEDESTRIAN WALKWAY

PLAN SHEET NO.	PARCEL #	TEMPORARY PEDESTRIAN WALKWAY EACH	REMARKS
16	13/14	4	
	PAY TOTAL	4	

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REMOVAL OF IMPROVEMENTS – SIGNALS/LIGHTING/ITS AT COOL VALLEY ELEM. (1 OF 3)

PLAN SHEET NO.	ROADWAY	STATION	STATION	LOCATION	DESCRIPTION OF REMOVAL
137	RTE. N	178+29.8	–	59.0' RT.	20' SIGNAL MAST ARM & SIGNAL HEADS
137	RTE. N	179+24.0	–	62.2' RT.	38' SIGNAL MAST ARM & SIGNAL HEADS
137	RTE. N	179+26.4	–	34.3' LT.	POWER SUPPLY ON EXIST. POWER POLE
137	RTE. N	179+28.1	–	58.4' RT.	SIGNAL PULLBOX
137	RTE. N	179+13.9	–	30.4' LT.	PED. PUSH BUTTON & COUNTDOWN HEAD
137	RTE. N	178+97.4	–	30.5' LT.	SIGNAL CONTROLLER & CABINET
137	RTE. N	178+68.7	–	30.5' LT.	8' SIGNAL POST & SIGNAL HEAD
137	RTE. N	179+00.0	–	23.9' LT.	SIGNAL PULLBOX AT CONTROLLER
137	RTE. N	178+64.1	–	26.9' LT.	SIGNAL PULLBOX AT 8' SIGNAL POST
137	RTE. N	178+12.9	–	32.7' LT.	43' SIGNAL MAST ARM & SIGNAL HEADS
				PAY TOTAL	1 LUMP SUM

REMOVAL OF IMPROVEMENTS – SIGNS (3 OF 3)

PLAN SHEET NO.	ROADWAY	STATION	STATION	LOCATION	DESCRIPTION OF REMOVAL
186	RTE. N	247+98	–	RT.	STOP SIGN
186	RTE. N	247+58	–	RT.	NO TRUCK SIGNS
186	RTE. N	248+54	–	RT.	NO PARKING SIGN
186	RTE. N	249+64	–	RT.	35 MPH S.L. SIGN
186	RTE. N	251+51	–	RT.	NO PARKING SIGN
186	RTE. N	252+91	–	RT.	NO PARKING SIGN
186	RTE. N	252+76	–	RT.	STOP SIGN
187	RTE. N	256+31	–	LT.	NO PARKING SIGN
187	RTE. N	256+62	–	LT.	35 MPH S.L. SIGN
187	RTE. N	257+22	–	LT.	RTE. N SIGN
187	RTE. N	257+25	–	LT.	DO NOT ENTER SIGN
187	RTE. N	260+74	–	LT.	DO NOT ENTER SIGN
187	RTE. N	261+54	–	LT.	NO PARKING SIGN
187	RTE. N	257+80	–	LT.	DOUBLE DOWN ARROW (W12-1) SIGN
187	RTE. N	258+45	–	LT.	OBJECT MARKER (OM1-3) SIGN
187	RTE. N	261+21	–	LT.	WRONG WAY & 'ONE WAY – DO NOT ENTER' SIGNS
188	RTE. N	262+02	–	LT.	DO NOT ENTER SIGN
188	RTE. N	262+30	–	LT.	WRONG WAY SIGN
188	RTE. N	264+96	–	LT.	ONE WAY SIGN
188	RTE. N	265+40	–	LT.	ONE WAY SIGN
188	RTE. N	266+58	–	LT.	NO PARKING SIGN
188	RTE. N	262+35	–	RT.	NO PARKING SIGN
188	RTE. N	263+28	–	RT.	NO PARKING SIGN
188	RTE. N	264+32	–	RT.	STOP SIGN
188	RTE. N	264+81	–	RT.	35 MPH S.L. SIGN
188	RTE. N	265+12	–	RT.	NO PARKING SIGN
188	RTE. N	266+09	–	RT.	NO PARKING SIGN
188	RTE. N	268+34	–	RT.	NO PARKING SIGN
189	RTE. N	269+33	–	LT.	NO PARKING SIGN
189	RTE. N	273+95	–	LT.	RTE. N SIGN
189	RTE. N	274+08	–	LT.	W11-1 & 'SHARE THE ROAD' SIGNS
189	RTE. N	274+88	–	LT.	35 MPH S.L. SIGN
189	RTE. N	271+12	–	RT.	NO PARKING SIGN
189	RTE. N	271+30	–	RT.	LEFT LANE ENDS SIGN
189	RTE. N	271+57	–	RT.	115 JCT. SIGNS
189	RTE. N	272+49	–	RT.	NO PARKING SIGN
189	RTE. N	272+57	–	RT.	W4-2L SIGN
189	RTE. N	273+49	–	RT.	W11-1 & 'SHARE THE ROAD' SIGNS
189	RTE. N	274+32	–	RT.	NO PARKING SIGN
189	RTE. N	274+71	–	RT.	NO PARKING SIGN
189	RTE. N	274+93	–	MEDIAN	KEEP RT. SIGN
189	RTE. N	274+15	–	RT.	ROUND-ABOUT & 15 MPH SIGNS
56	RTE. N	262+35	–	RT.	TEMP. NO PARKING SIGN
57	RTE. N	266+10	–	RT.	TEMP. NO PARKING SIGN
57	RTE. N	268+35	–	RT.	TEMP. NO PARKING SIGN
57	RTE. N	270+83	–	RT.	TEMP. NO PARKING SIGN
				PAY TOTAL	1 LUMP SUM

STATE OF MISSOURI
JAMIE F. RANA
NUMBER PE-2005001034
PROFESSIONAL ENGINEER
Jamie F. Rana
01/27/2024 2:44:16 PM
JAMIE F. RANA - CIVIL
MO-PE-2005001034

DATE PREPARED: 1/25/2024
ROUTE: N | STATE: MO
DISTRICT: SL | SHEET NO.: 3
COUNTY: ST. LOUIS
JOB NO.: J6S3599
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)

SUMMARY OF QUANTITIES
SHEET 2 OF 25

REV.

REMOVAL OF IMPROVEMENTS – SIGNALS/LIGHTING/ITS AT 70 & AT UNIV. PLACE DR. (2 OF 3)

PLAN SHEET NO.	ROADWAY	STATION	STATION	LOCATION	DESCRIPTION OF REMOVAL
9	RTE. N	201+40.4	–	12.6′ LT.	OLD SIGNAL BASE FOR RT. TURN FROM WB 70 TO NB RTE. N
9	RTE. N	201+78.9	–	13.7′ LT.	OLD SIGNAL BASE FOR RT. TURN FROM WB 70 TO NB RTE. N
10	RTE. N	209+13.9	–	10.8′ RT.	OLD SIGNAL BASE FOR RT. TURN FROM EB 70 TO SB RTE. N
10	RTE. N	209+34.6	–	10.4′ RT.	OLD SIGNAL BASE FOR RT. TURN FROM EB 70 TO SB RTE. N
10	RTE. N	208+12.8	–	71.2′ RT.	EXIST. PULLBOX #7
10	RTE. N				EXIST. LIGHT PULLBOX LA
N/A	RTE. N	–	–	RT.	LOCATION TO BE DETERMINED – WITHIN SW QUAD. OF INTERCHANGE NEAR BANK OF CABINETS SIGNAL POWER SUPPLY FOR 70 SIGNALS
N/A	RTE. N	–	–	RT.	LOCATION TO BE DETERMINED – WITHIN SW QUAD. OF INTERCHANGE NEAR BANK OF CABINETS SIGNAL POWER SUPPLY FOR UNIV. PLACE DRIVE
137	RTE. N		–		
152	RTE. N	213+51.0	–	56.3′ LT.	REMOVE 5-SECTION SIGNAL HEAD FOR NB RTE. N ON MAST ARM
152	RTE. N	213+51.0	–	56.3′ LT.	REMOVE ‘LT TURN SIGNAL’ SIGN ON MAST ARM FOR UNIV. PL. DR.
152	RTE. N	213+51.0	–	56.3′ LT.	REMOVE ‘LT TURN YIELD ON GREEN’ SIGN ON MAST ARM FOR NB RTE. N
152	RTE. N	214+69.0	–	48.8′ LT.	PULLBOX ‘B’ – SHOULD BE JUST FOR DET. LOOPS
				PAY TOTAL	1 LUMP SUM

NOTE: MULTIPLE TABLES FOR REMOVAL OF IMPROVEMENTS ARE SHOWN ON QTY. SHEETS.
ALL REMOVALS LISTED IN THESE TABLES TO BE INCLUDED WITHIN THAT 1 LUMP SUM PAY ITEM.

REMOVAL OF IMPROVEMENTS – SIGNALS/LIGHTING/ITS AT BERMUDA DRIVE/ST. ANN’S LANE (3 OF 3)

PLAN SHEET NO.	ROADWAY	STATION	STATION	LOCATION	DESCRIPTION OF REMOVAL
160	RTE. N	258+27.8	–	47.83′ LT.	SIGNAL LOOP 30′X6′
160	RTE. N	258+28.0	–	36.70′ LT	SIGNAL PULLBOX
160	RTE. N	258+47.0	–	65.01′ LT	SIGNAL PULLBOX
160	RTE. N	258+95.7	–	45.37′ LT	SIGNAL LOOP 12′X4′
160	RTE. N	259+27.7	–	27.38′ LT	SIGNAL PULLBOX
160	RTE. N	259+35.2	–	26.39′ LT	20′ SIGNAL MAST ARM & SIGNAL HEADS
160	RTE. N	259+55.1	–	24.68′ LT	8′ SIGNAL POST & SIGNAL HEAD
160	RTE. N	260+05.5	–	54.31′ RT	SIGNAL LOOP 30′X6′
160	RTE. N	260+23.4	–	36.89′ RT	SIGNAL PULLBOX
160	RTE. N	259+50.2	–	24.72′ RT	20′ SIGNAL MAST ARM & SIGNAL HEADS
160	RTE. N	259+31.0	–	27.51′ RT	SIGNAL PULLBOX
160	RTE. N	259+37.7	–	24.38′ RT	SIGNAL CONTROLLER AND POWER SUPPLY
				PAY TOTAL	1 LUMP SUM

CONCRETE MEDIAN ISLAND

PLAN SHEET NO.	ROADWAY	INTERSECTION	STATION	STATION	AREA S.F.	CONCRETE MEDIAN S.Y.	REMARKS
13	RTE.N	OXEYE DR.	234+41.92	235+06.19	829.37	92.15	RRFB MEDIAN
16	RTE.N	BERMUDA DR.	258+35.76	259+12.33	302.82	33.65	
					SUBTOTAL	125.80	
					PAY TOTAL	✱✱✱	

NOTE: ✱✱✱ INDICATES SEE DIFFERENT TABULATION FOR FINAL PAY TOTAL.

METRO BUS PAD

PLAN SHEET NO.	ROADWAY	INTERSECTION	STATION	STATION	METRO BUS PAD EACH	REMARKS
8	NB – RTE. N	MCDONALD’S	196+72.3	196+74.5	1	METRO BUS #79 – LANDING AREA 5′ X 13.5′
8	SB – RTE. N	MCDONALD’S	195+70.2	195+70.3	1	METRO BUS #79 – LANDING AREA 5′ X 8′
6	RTE. N	FAMILY DOLLAR	182+92.3	182+97.3	1	METRO BUS #79 – LANDING AREA 5′ X 8′
				PAY TOTAL	3	

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STATE OF MISSOURI
JAMIE F. RANA
NUMBER PE-2005001034
PROFESSIONAL ENGINEER
Jamie F. Rana
01/27/2024 2:47:29 PM
JAMIE F. RANA - CIVIL
MO-PE-2005001034

DATE PREPARED
1/25/2024

ROUTE	STATE
N	MO
DISTRICT	SHEET NO.
SL	3

COUNTY
ST. LOUIS

JOB NO.
J6S3599

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

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

REV.	DESCRIPTION	DATE

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

SUMMARY OF QUANTITIES
SHEET 3 OF 25

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REMOVAL OF IMPROVEMENTS – SIDEWALK, PAVE APPROACHES, AND PAVEMENT (SHEET 2 OF 2)

PLAN SHEET	ROADWAY	DIRECTION	STATION	STATION	LOCATION	DESCRIPTION
105	RTE. N	WESTSIDE	223+25.00	246+00.00		ENTRANCE AREA = 230.5 SY
		WESTSIDE				SAWCUT ENTRANCE AREA = 412 LF
		WESTSIDE				SHOULDER PAVEMENT AREA = 410.7 SY
		WESTSIDE				SAWCUT SHOULDER PAVEMENT AREA = 869 LF
		WESTSIDE				SIDEWALK AREA = 261.7 SY
		WESTSIDE				SAWCUT SIDEWALK = 20 LF
		WESTSIDE				CURB & GUTTER = 966.3 LF
		WESTSIDE				SAWCUT CURB & GUTTER = 966.3 LF
		EASTSIDE				CURB & GUTTER = 274.8 LF
		EASTSIDE				SAWCUT CURB & GUTTER = 274.8 LF
106	RTE. N	WESTSIDE	246+00.00	256+00.00		ENTRANCE AREA = 541.4 SY
		WESTSIDE				SAWCUT ENTRANCE AREA = 668 LF
		WESTSIDE	246+00.00	260+00.00		SIDEWALK AREA = 150.4 SY
		WESTSIDE				SAWCUT SIDEWALK = 10 LF
		WESTSIDE				CURB & GUTTER = 673.1 LF
		WESTSIDE				SAWCUT CURB & GUTTER = 673.1 LF
107	RTE. N	WESTSIDE	256+00.00	266+00.00		ENTRANCE AREA = 345.9 SY
		WESTSIDE				SAWCUT ENTRANCE AREA = 833 LF
		WESTSIDE				SIDEWALK AREA = 254 SY
		WESTSIDE				SAWCUT SIDEWALK = 52 LF
		WESTSIDE				SHOULDER PAVEMENT AREA = 759.8 SY
		WESTSIDE				SAWCUT SHOULDER PAVEMENT AREA = 752 LF
		EASTSIDE				MEDIAN AREA = 163.4 SY
		EASTSIDE				SAWCUT MEDIAN = 184 LF
		EASTSIDE				ENTRANCE AREA = 36.7 SY
		EASTSIDE				SAWCUT ENTRANCE AREA = 132 LF
		EASTSIDE				SIDEWALK AREA = 328.5 SY
		EASTSIDE				SAWCUT SIDEWALK = 36 LF
		WESTSIDE				CURB & GUTTER = 664.2 LF
		WESTSIDE				SAWCUT CURB & GUTTER = 664.2 LF
		EASTSIDE				CURB & GUTTER = 429.7 LF
		EASTSIDE				SAWCUT CURB & GUTTER = 429.7 LF
108	RTE. N	WESTSIDE	266+00.00	END OF PROJECT		ENTRANCE AREA = 232.8 SY
		WESTSIDE				SAWCUT ENTRANCE AREA = 652 LF
		WESTSIDE				SHOULDER PAVEMENT AREA = 96.8 SY
		WESTSIDE				SAWCUT SHOULDER PAVEMENT AREA = 249 LF
		WESTSIDE				SIDEWALK AREA = 249.8 SY
		WESTSIDE				SAWCUT SIDEWALK = 70 LF
		EASTSIDE				ENTRANCE AREA = 168 SY
		EASTSIDE				SAWCUT ENTRANCE AREA = 496 LF
		EASTSIDE				SIDEWALK AREA = 274.4 SY
		EASTSIDE				SAWCUT SIDEWALK = 40 LF
		WESTSIDE				CURB & GUTTER = 631.3 LF
		WESTSIDE				SAWCUT CURB & GUTTER = 631.3 LF
		EASTSIDE				CURB & GUTTER = 882.2 LF
		EASTSIDE				SAWCUT CURB & GUTTER = 882.2 LF
103	RTE. N	WESTSIDE				SAWCUT BACK OF SIDEWALK FOR REMOVAL = 382 LF
103	RTE. N	WESTSIDE				APPROX. 212 S.Y. OF SIDEWALK ALONG MSE WALL A6338
10 & 11	RTE. N	WESTSIDE	214+62.8	215+62.8		100 L.F. OF SAWCUT & CURB REMOVAL – REPLACE 8" CURB W/ 4" CURB NEAR CWET
10 & 11	RTE. N	WESTSIDE	215+12.8	215+62.8		GUARDRAIL CWET ALONG SB RTE. N
					PAY TOTAL	1 LUMP SUM

NOTE: MULTIPLE TABLES FOR REMOVAL OF IMPROVEMENTS ARE SHOWN ON QTY. SHEETS.
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PROFESSIONAL ENGINEER
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JAMIE F. RANA - CIVIL
MO-PE-2005001034

DATE PREPARED
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N	MO
DISTRICT	SHEET NO.
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COUNTY
ST. LOUIS

JOB NO.
J6S3599

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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)

SUMMARY OF QUANTITIES
SHEET 4 OF 25

REV.

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REMOVAL OF IMPROVEMENTS – DRAINAGE RELATED ITEMS (INCLUDES PAVEMENT)

PLAN SHEET NO.	ROADWAY	STATION	STATION	LOCATION	DESCRIPTION OF REMOVAL
211	RTE. N	–	–	LT.	5 L.F. PIPE AT 4–24MH
211	RTE. N	190+23.8	193+13.4	LT.	FOR SYSTEM 4 DRAINAGE INSTALLATION 306 L.F. OF SAWCUTS FOR PVMT REMOVAL 189 SY OF PVMT REMOVAL
212	RTE. N	202+28.0	–	46.8' LT.	EXIST. DROP INLET – REPLACE W/ 2–2MH
212	RTE. N	–	–	LT.	2 L.F. PIPE AT 2–3A
213	RTE. N ST. ANN'S LN.	–	–	RT.	FOR SYSTEM 1 DRAINAGE INSTALLATION 344 L.F. OF SAWCUTS FOR PVMT REMOVAL 94 SY OF PVMT REMOVAL
213	ST. ANN'S LN.	–	–	LT.	5 L.F. PIPE AT 1–5MH
				PAY TOTAL	1 LUMP SUM

REMOVAL OF IMPROVEMENTS – SIDEWALK, PAVE APPROACHES, AND PAVEMENT (SHEET 1 OF 2)

PLAN SHEET	ROADWAY	DIRECTION	STATION	STATION	LOCATION	DESCRIPTION
98	RTE. N	WESTSIDE	START PROJECT	176+00.00	S. OF BROTHERTON/SCHOOL ENTRANCE	SIDEWALK AREA = 42.8 SY
		WESTSIDE				SAWCUT SIDEWALK = 22.1 LF
		WESTSIDE				ENTRANCE AREA = 119.8 SY
		WESTSIDE				SAWCUT ENTRANCE = 239.8' LF
99	RTE. N	WESTSIDE	176+0.00	185+50.00		SIDEWALK AREA = 83.5 SY
		WESTSIDE				SIDEWALK GRINDING AREA = 20.4 SY
		WESTSIDE				SAWCUT SIDEWALK = 80 LF
		EASTSIDE				SIDEWALK AREA = 143.1 SY
		EASTSIDE				ENTRANCE AREA 1 = 199.7 SY
		EASTSIDE				SAWCUT SIDEWALK = 62 LF
		EASTSIDE				SAWCUT ENTRANCE = 517.5 LF
		WESTSIDE				CURB & GUTTER = 268.4 LF
		WESTSIDE				SAWCUT CURB & GUTTER = 268.4 LF
100	RTE. N	WESTSIDE	185+50.00	195+00.00		SIDEWALK AREA = 33.8 SY
		WESTSIDE				MEDIAN AREA = 46.5 SY
		WESTSIDE				ENTRANCE AREA 1 = 62.0 SY
		WESTSIDE				SAWCUT SIDEWALK = 12 LF
		WESTSIDE				SAWCUT MEDIAN = 149.8 LF
		WESTSIDE				SAWCUT ENTRANCE = 169.2 LF
		EASTSIDE				SIDEWALK AREA = 144.5 SY
		EASTSIDE				ENTRANCE AREA = 418.8 SY
		EASTSIDE				SAWCUT SIDEWALK = 42 LF
		EASTSIDE				SAWCUT ENTRANCE = 774.4 LF
		EASTSIDE				CURB & GUTTER = 523.6 LF
		EASTSIDE				SAWCUT CURB & GUTTER = 523.6 LF
101	RTE. N	WESTSIDE	195+00.00	205+00.00		SIDEWALK AREA = 481.8 SY
		WESTSIDE				SAWCUT SIDEWALK = 15 LF
		WESTSIDE				GUARDRAIL = 142 LF
		EASTSIDE				SIDEWALK AREA = 362.5 SY
		EASTSIDE				SAWCUT SIDEWALK = 40 LF
		EASTSIDE				RAMP 3B PAVEMENT = 654.4 SY, CURB = 335 LF, AND SAWCUT PAVEMENT = 213 LF
102	RTE. N	WESTSIDE	205.00.00	214+00.00		SIDEWALK AREA = 461.8 SY
		WESTSIDE				SAWCUT SIDEWALK = 30 LF
		EASTSIDE				SIDEWALK AREA = 420.4 SY
		EASTSIDE				SAWCUT SIDEWALK = 30 LF
		EASTSIDE				ENTRANCE AREA = 108.4 SY
		EASTSIDE				SAWCUT ENTRANCE AREA = 194 LF
		EASTSIDE				RAMP 2B PAVEMENT = 800.4 SY, CURB = 160 LF, AND SAWCUT PAVEMENT = 233 LF
103	RTE. N	WESTSIDE	214+00.00	223+00.00		SIDEWALK AREA = 190.4 SY
		WESTSIDE				SAWCUT SIDEWALK = 20 LF
		WESTSIDE				GUARDRAIL = 1074 LF
		EASTSIDE				SIDEWALK AREA = 487.7 SY
		EASTSIDE				SAWCUT SIDEWALK = 20 LF
104	RTE. N	WESTSIDE	223+00.00	238+00.00		SHOULDER PAVEMENT AREA = 565.4 SY
		WESTSIDE				SAWCUT SHOULDER PAVEMENT AREA = 1160 LF
		EASTSIDE				SHOULDER PAVEMENT AREA = 759.8 SY
		EASTSIDE				SAWCUT SHOULDER PAVEMENT AREA = 1732 LF
		EASTSIDE				ENTRANCE AREA = 209.8 SY
		EASTSIDE				SAWCUT ENTRANCE AREA = 215 LF
		EASTSIDE				SIDEWALK AREA = 32.5 SY
		EASTSIDE				SAWCUT SIDEWALK = 8 LF
		EASTSIDE				CURB & GUTTER = 803.1 LF
		EASTSIDE				SAWCUT CURB & GUTTER = 803.1 LF
		WESTSIDE				CURB & GUTTER = 148.1 LF
		WESTSIDE				SAWCUT CURB & GUTTER = 148.1 LF
					PAY TOTAL	1 LUMP SUM

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STATE OF MISSOURI
JAMIE F. RANA
NUMBER PE-2005001034
PROFESSIONAL ENGINEER
Jamie F. Rana
02/22/2024 1:29:39 PM
JAMIE F. RANA - CIVIL
MO-PE-2005001034

DATE PREPARED
2/22/2024

ROUTE	STATE
N	MO
DISTRICT	SHEET NO.
SL	3

COUNTY
ST. LOUIS

JOB NO.
J6S3599

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)

SUMMARY OF QUANTITIES
SHEET 5 OF 25

ROCK BLANKET AND CONC. BLOCK MAT

PLAN SHEET NO.	ROADWAY	STA.	LOCATION	LENGTH FT.	WIDTH FT.	DEPTH FT.	CONCRETE BLOCK MAT S.Y.	FURNISHING TYPE 2 ROCK BLANKET C.Y.	PLACING TYPE 2 ROCK BLANKET C.Y.	PERMANENT EROSION CONTROL GEOTEXTILE S.Y.	REMARKS
12	RTE. N		RIGHT	50	10	2		37.0	37.0	55.6	
12	RTE. N		RIGHT	30	30	2		66.7	66.7	100.0	
12	RTE. N		RIGHT	30	30	3		300.0	300.0	100.0	
12	RTE. N		LEFT	60	4	1		8.9	8.9	26.7	
14	RTE. N	240+42.7	LEFT	30	10		33.33				
14	RTE. N	243+15.8	LEFT	18	7		14.00				
						SUBTOTALS	47.33	412.6	412.6	282.3	
						PAY TOTALS	47.3	413	413	283	

CURB & GUTTER

PLAN SHEET NO.	STATION	STATION	ROADWAY	LOCATION	LENGTH	TYPE 'B' CURB & GUTTER L.F.	MOD. TYPE 'B' CURB & GUTTER L.F.	TYPE 5 AGGREGATE BASE 4" S.Y.	REMARKS
99	176+00.00	185+50.00	RTE. N	EASTSIDE	268.4	268		89.3	
100	185+50.00	195+50.00	RTE. N	EASTSIDE	521.7	522		174.0	
104	223+00.00	235+25.00	RTE. N	EASTSIDE	616.0	616		205.3	INCLUDES ENTRANCE RADIUS - 3.5' GUTTER
104	232+02.17	232+99.39	RTE. N	EASTSIDE	97.9		98	38.1	CURB TRANSITION .5' TO 3.5'
104	233+75.28	234+64.49	RTE. N	WESTSIDE	89.1		89	44.5	GUTTER 2.5' - SOUTH LANE SHIFT/RT. TURN LANE
104	234+64.49	235+18.02	RTE. N	WESTSIDE	59.0		59	29.5	
105	237+79.57	240+58.11	RTE. N	EASTSIDE	274.9		275	30.6	TED JONES BRIDGE - 1' GUTTER
105	235+25.00	246+00.00	RTE. N	WESTSIDE	966.3	966		322.0	
106	246+00.00	256+00.00	RTE. N	WESTSIDE	673.0	673		224.3	
106	248+20.03	258+72.18	RTE. N	WESTSIDE	352.8		353	137.3	CURB BETWEEN CIRCLE DR. AND MARIETTA DR.
107	256+00.00	266+00.00	RTE. N	WESTSIDE	393.0	393		131.0	
107	256+00.00	266+00.00	RTE. N	WESTSIDE	284.1		284	31.6	BUMPOUTS 1, 2, AND 3 - 1' GUTTER
107	256+00.00	266+00.00	RTE. N	EASTSIDE	293.1	293		97.7	
107	256+00.00	266+00.00	RTE. N	EASTSIDE	196.4	196		65.3	BERMUDA DRIVE - ISLAND 2' GUTTER
108	266+00.00	275+.00.00	RTE. N	WESTSIDE	404.1	404		134.7	
108	266+00.00	275+00.00	RTE. N	WESTSIDE	102.7		103	11.4	BUMPOUT 4 - 1' GUTTER
108	266+00.00	275+00.00	RTE. N	EASTSIDE	635.3	635		211.7	
					SUBTOTALS	4966	1261	1937.0	
					PAY TOTALS	4966	1261	✳	

✳ INDICATES PAY TOTAL LISTED IN ANOTHER TABULATION

GUARDRAIL AND PERMANENT CONCRETE TRAFFIC BARRIER

PLAN SHEET NO.	ROADWAY	STATION	STATION	LOCATION OFFSET	MGS GUARDRAIL 8' POSTS 6'-3" SPACING (L.F.)	TYPE A CWET MASH (EA.)	MGS END ANCHOR (EA.)	STD PLAN 617.10M CONCRETE BARRIER TYPE 'C' MODIFIED (L.F.)	STD PLAN 617.10M CONCRETE BARRIER TYPE 'D' (L.F.)	TRANSITION CONCRETE BARRIER TYPE 'C' MODIFIED (L.F.)	TRANSITION CONCRETE BARRIER TYPE 'D' (L.F.)	30" PEDESTRIAN FENCE (L.F.)	SHAPING SLOPES CLASS III MOD. MATERIAL REQUIREMENT (100 L.F.)	REMARKS
9	RTE. N - SB NEAR I-70	199+85.60	201+36.33	RT.					75		28			TO PROTECT THE SIGN TRUSS
11	RTE. N - SB (UNIVERSITY PLACE DR.)	215+12.8	215+62.8	RT.		1							1	
11 & 12	RTE. (ACROSS FROM NORMANDY TRACE DR.)	221+57.9	223+52.4	RT.	187.5		2							START STATIONING LISTED BEGINS W/ END ANCHOR
12	RTE. N - NB NEAR COOL VALLEY DR.	227+54.78	229+09.32	LT.				133		56		133		204' OF BARRIER BEFORE WRAPPING 64' TO TRANSITION BARRIER
				PAY TOTALS	188	1	2	133	75	56	28	133	1	

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SUMMARY OF QUANTITIES
SHEET 6 OF 25

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PAVED APPROACHES

PLAN SHEET NO.	ROADWAY	STATION	LOCATION	WIDTH (FT.) (MEASURED ALONG BACK LINE)	TYPE	AREA S.F.	8" PAVED APPROACH S.Y.	4" TYPE 5 BASE S.Y.	ASPHALT WEDGING TON	ALTERNATE ENTRANCE SEE TYPICALS **	REMARKS
4	RTE.N/CHURCH	168+29.65	RT	24.5	CONCRETE	1079	119.9	119.9	0.9		
6	RTE.N	178+38.66	LT	34.3	CONCRETE	392	43.6	43.6			
6	RTE.N	178+38.63	LT	15.7	CONCRETE	165	18.3	18.3		**	
6	RTE.N	179+89.99	LT	17.1	CONCRETE	167	18.6	18.6		**	
6	RTE.N	180+90.57	LT	17.0	CONCRETE	205	22.8	22.8		**	
6	RTE.N	181+82.61	LT	10.6	CONCRETE	221	24.6	24.6		**	
6	RTE.N	182+25.22	LT	18.0	CONCRETE	584	64.9	64.9		**	
6	RTE.N	182+50.22	LT	15.8	CONCRETE		0.0	0.0		**	
7	RTE.N AT BERNHARDT AVE.	185+58.19	LT	26.3	CONCRETE	361	40.1	40.1	0.9		
7	RTE.N	186+72.07	LT	10.0	CONCRETE	177	19.7	19.7	0.4	**	
7	RTE.N	187+47.31	LT	26.0	CONCRETE	428	47.6	47.6	0.9	**	
7	RTE.N	188+37.89	LT	38.0	CONCRETE	423	47.0	47.0	1.4	**	
7	RTE.N/AUTO	190+57.58	RT	64.1	CONCRETE	558	62.0	62.0		**	
7	RTE.N/CHURCH	191+12.43	LT	40.2	CONCRETE	715	79.4	79.4	1.5		
8	RTE.N/MCDONADS	193+06.77	LT	43.9	CONCRETE	1911	212.3	212.3	1.6		
8	RTE.N/MCDONADS	193+77.94	LT	39.8	CONCRETE		0.0	0.0	1.4		
13	RTE.N/WALKER LN.	233+33.36	LT	42.0	CONCRETE	1888	209.8	209.8	1.5		SLOPE TOWARD DRAIN
13	RTE.N/OXEYE DR.	235+42.11	RT	24.7	CONCRETE	627	69.7	69.7	0.9		
14	RTE.N	243+47.54	RT	30.0	CONCRETE	624	69.3	69.3	1.1		
14	RTE.N AT WACO DR.	244+77.03	RT	27.0	CONCRETE	823	91.4	91.4			
15	RTE.N AT CIRCLE DR.	247+72.79	RT	25.0	CONCRETE	593	65.9	65.9			
15	RTE.N AT MARIETTA DR.	252+34.13	RT	64.0	CONCRETE	1002	111.3	111.3			
15	RTE.N	254+03.92	RT	30.0	CONCRETE	560	62.2	62.2	1.1		
16	RTE.N	256+73.62	RT	74.9	CONCRETE	621	69.0	69.0	4.6		INCLUDES ADJ. WEDGING
16	RTE.N	257+03.38	RT		CONCRETE		0.0	0.0			
16	RTE.N	257+59.78	RT	15.6	CONCRETE	175	19.4	19.4	0.6		
16	RTE.N	257+90.92	RT	37.6	CONCRETE	414	46.0	46.0	1.4		
16	RTE.N	258+48.44	RT	82.9	CONCRETE	899	99.9	99.9	3.0		
16	RTE.N	258+83.44	RT		CONCRETE		0.0	0.0			
16	RTE.N AT ST. ANNS LN.	259+46.23	RT	25.9	CONCRETE	994	110.4	110.4			
16	RTE.N	260+82.99	RT	41.0	CONCRETE	688	76.4	76.4	3.8		INCLUDES ADJ. WEDGING
16	RTE.N AT N. HILLS DR.	260+86.90	LT	30.7	CONCRETE	823	91.4	91.4			
17	RTE.N AT N. HILLS DR.	262+25.33	LT	44.5	CONCRETE	2145	238.3	238.3			
17	RTE.N	262+99.04	LT	10.0	CONCRETE	269	29.9	29.9		**	
17	RTE.N	263+39.98	RT	9.0	CONCRETE	254	28.2	28.2			
17	RTE.N AT OAKMOUNT AVE.	264+08.52	RT	48.5	CONCRETE	1101	122.3	122.3			
17	RTE.N AT TOWER GROVE DR.	265+25.45	LT	50.6	CONCRETE	1904	211.6	211.6			
17	RTE.N	265+28.20	RT	8.0	CONCRETE	63	7.0	7.0			
17	RTE.N	266+51.94	RT	8.0	CONCRETE	146	16.2	16.2			
17	RTE.N	267+12.54	RT	7.0	CONCRETE	143	15.9	15.9			
17	RTE.N	267+16.92	LT	12.9	CONCRETE	235	26.1	26.1			
17	RTE.N	267+69.00	RT	14.5	CONCRETE	464	51.6	51.6			
17	RTE.N	267+85.00	RT	8.0	CONCRETE		0.0	0.0			
17	RTE.N	268+25.22	LT	20.0	CONCRETE	507	56.3	56.3			
17	RTE.N	268+49.68	RT	11.0	CONCRETE	248	27.6	27.6			
18	RTE.N	269+46.31	RT	10.0	CONCRETE	138	15.3	15.3			
18	RTE.N	270+17.80	RT	20.0	CONCRETE	343	38.1	38.1			
18	RTE.N	271+38.43	RT	9.5	CONCRETE	211	23.4	23.4			
18	RTE.N	271+67.75	LT	54.0	CONCRETE	415	46.1	46.1	1.9		
18	RTE.N	271+81.15	RT	14.0	CONCRETE	315	35.0	35.0			
18	RTE.N/AUGUSTA AVE.	273+14.57	RT	29.0	CONCRETE	1141	126.8	126.8			
18	RTE.N/ST. VINCENT	274+59.72	LT	17.5	CONCRETE	348	38.7	38.7	0.6	**	
						SUBTOTALS	3167.3	3167.3	28.60		
						ADDITIONAL QTY.	0.00	0.0	20.00		
						PAY TOTALS	3167.3	*	48.6		

* INDICATES PAY TOTAL LISTED IN ANOTHER TABULATION

** USE ALTERNATE ENTRANCE PER TYPICAL

STATE OF MISSOURI
JAMIE F. RANA
NUMBER PE-2005001034
PROFESSIONAL ENGINEER

Jamie F. Rana
01/27/2024 2:50:03 PM
JAMIE F. RANA - CIVIL
MO-PE-2005001034

DATE PREPARED
1/25/2024

ROUTE	STATE
N	MO
DISTRICT	SHEET NO.
SL	3

COUNTY
ST. LOUIS

JOB NO.
J6S3599

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)

SUMMARY OF QUANTITIES
SHEET 7 OF 25

REV.

DISCLAIMER

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SIDEWALK, CONCRETE CURB RAMPS, & TRUNCATED DOMES

PLAN SHEET NO.	ROADWAY	INTERSECTION	STATION	STATION	LOCATION	WIDTH FT.	TRUNCATED DOMES S.F.	SUGGESTED ADA RAMP TYPE	ADA CURB RAMP EACH	4" SIDEWALK S.Y.	7" SIDEWALK S.Y.	8" SIDEWALK S.Y.	4" TYPE 5 AGGR. BASE S.Y.	CONCRETE MEDIAN S.Y.	TURF TYPE TALL FESCUS SODDING S.Y.	MODIFIED CLASS 2 LINEAR GRADING STA.	LOCATION OF ADA EXCEPTIONS ****	REMARKS
4	RTE. N	STARTING N. OF SCHOOL ENTR.	167+88.7	168+17.2	W. SIDE	5	0.0	TYPE 1 PARALLEL	1	4.31			4.31	0.00	0.00	0.29		
4	RTE.N	S. OF SCHOOL ENTR.	168+53.2	169+30.1	W. SIDE	5	0.0	LARGE RADIUS PERP.	1	37.31			37.31	0.00	0.00	0.77		
6	RTE.N	COOL VALLEY DR. INTERSECTION NORTH	178+17.2	178+35.3	W. SIDE	5	14.7	LARGE RADIUS PERP.	1	0.00			0.00	0.00	0.00	0.18		
6	RTE.N	COOL VALLEY DR. INTERSECTION SOUTH	179+09.2	179+47.7	W. SIDE	5	16.5	COMPOUND PERP.	1	8.37			8.37	0.00	0.00	0.39		
6	RTE.N	STARTING AT COOL VALLEY DR.	177+94.2	178+21.6	E. SIDE	5	0.0	LARGE AND SMALL RADIUS PERP.	2	0.00			0.00	0.00	3.79	0.27	****	
6	RTE.N		178+55.7	179+29.4	E. SIDE	5	0.0	TYPE 2 PARALLEL, AND SMALL RADIUS PERP. (X2)	3	14.05			14.05	0.00	16.53	0.74		
6	RTE.N		179+46.5	179+80.9	E. SIDE	5	0.0	SMALL RADIUS PERP. (X 2)	2	0.00			0.00	0.00	6.39	0.34		
6	RTE.N		179+99.0	180+81.6	E. SIDE	5	0.0	SMALL RADIUS PERP. (X 2)	2	23.66			23.66	0.00	17.37	0.83		
6	RTE.N		180+99.6	181+76.8	E. SIDE	5	0.0	SMALL RADIUS PERP. (X 2)	2	20.68			20.68	0.00	14.51	0.77		
6	RTE.N		181+88.4	182+15.8	E. SIDE	5	0.0	SMALL RADIUS PERP. (X 2)	2	0.00			0.00	0.00	5.22	0.27	****	
6	RTE.N		182+58.7	185+41.3	E. SIDE	5	13.7	SMALL RADIUS PERP. (X 2)	2	7.48			7.48	0.00	0.00	2.83		
7	RTE.N		185+71.2	186+66.6	E. SIDE	5	9.9	SMALL RADIUS PERP. (X 2)	2	28.19			28.19	0.00	19.54	0.95		
7	RTE.N		186+77.9	187+33.8	E. SIDE	5	0.0	SMALL RADIUS PERP. (X 2)	2	8.84			8.84	0.00	13.47	0.56		
7	RTE.N		187+60.8	188+18.4	E. SIDE	5	0.0	SMALL RADIUS PERP. (X 2)	2	9.20			9.20	0.00	11.76	0.58		
7	RTE.N	EVANS INTERSECTION NORTH	188+57.4	188+80.6	E. SIDE	5	0.0	SMALL RADIUS PERP. (X 2)	2	0.00			0.00	0.00	5.08	0.23	****	
7	RTE.N	EVANS INTERSECTION SOUTH	189+87.0	190+92.3	E. SIDE	5	9.9	SMALL RADIUS PERP.	1	46.12			46.12	0.00	29.27	1.05		
7	RTE.N		191+32.3	192+74.3	E. SIDE	5	9.9	LARGE RADIUS PERP. (X 2)	2	54.50			54.50	0.00	0.00	1.42		
8	RTE.N		193+19.4	193+57.5	E. SIDE	5	0.0	BACK TO BACK LARGE RADIUS PERP. (X 2)	2	0.00			0.00	0.00	26.42	0.38	****	
8	RTE.N		193+97.8	194+37.9	E. SIDE	5	0.0	SMALL RADIUS PERP. (X 2)	2	0.00			0.00	0.00	5.80	0.40	****	
8	RTE.N	MCDONALD'S ENTRANCE	194+66.7	195+61.0	E. SIDE	5	0.0	SMALL RADIUS PERP. (X 2)	2	31.51			31.51	0.00	46.03	0.94		
8	RTE.N	NORTH SIGNAL DR. NORTH	196+05.8	197+62.7	E. SIDE	5	37.9	SMALL AND LARGE RADIUS PERP.	2	70.01			70.01	0.00	0.00	1.57		
8	RTE.N	NORTH SIGNAL DR. ISLAND	197+91.5	198+01.7	E. SIDE	0	2.4	ISLAND CUT THRU	0	0.00			0.00	0.00	0.00	0.10		
8	RTE.N	NORTH SIGNAL DR. SOUTH	198+47.6	202+07.7	E. SIDE	5	30.9	LARGE RADIUS PERP. (X 2)	2	197.25			197.25	0.00	209.05	3.60		
8	RTE.N	EMERLING DR. TO RAMP	194+64.5	201+49.6	W. SIDE	5	37.9	SMALL AND LARGE RADIUS PERP.	2	355.62			355.62	0.00	375.88	6.85		
9	RTE.N	RAMP TO I-70 GOING SB	201+88.2	204+14.4	W. SIDE	5	28.3	LARGE RADIUS PERP. (X2)	2	103.57			103.57	0.00	199.10	2.26		
9	RTE.N	UNDER I-70	204+71.3	205+56.3	W. SIDE	5	19.7	LARGE RADIUS PERP. (X2)	2	22.11			22.11	48.8 ASPH.	0.00	0.85		ASPHALT ADD THIS 48.8 SY QTY TO PAVEMENT
9	RTE.N	GRASSY ISLAND GOING TOWARD RAMP 2	206+11.2	208+14.2	W. SIDE	5	20.4	LARGE RADIUS PERP. (X2)	2	90.27			90.27	0.00	241.98	2.03		INCLUDES RAMP 2 SOD
10	RTE.N	RAMP 2 GOING S. TO UNIVERSITY PL. DR.	208+64.8	213+72.4	W. SIDE	5	26.5	LARGE RADIUS PERP. AND COMPOUND PERP.	2	302.52			302.52	0.00	498.59	5.08	****	INCLUDES RAMP 2 SOD
10	RTE.N	UNIVERSITY PL. DR. S.	214+34.6	221+56.9	W. SIDE	5	9.9	SMALL RADIUS PERP. AND COMPOUND PERP.(X2)	3	199.56			199.56	0.00	8.24	7.22	****	
10	RTE.N	UNIVERSITY PL. DR. S. - NEAR FENCE/WALL	214+34.6	221+56.9	W. SIDE	5	0.0		0	212.22			212.22	0.00	84.89	7.22		NEAR FENCE/WALL ADD SAWCUT = 382 LF
10	RTE.N	MEDIAN PED CROSSING	214+54.7	214+60.7	MEDIAN	5	2.7	MEDIAN ISLAND CUT THRU	0	0.00			0.00	0.00	0.00	0.06		
13	RTE.N	RRFB MEDIAN TO OXEYE DR.	233+75.4	235+27.0	W. SIDE	5	9.9	TYPE 2 PARALLEL AND LARGE RADIUS PERP.	2	14.39			14.39	0.00	0.00	1.52		ADDED LIN. GRAD. FROM CURB RAMP BACK TO INLET
13	RTE.N	RRFB MEDIAN	234+61.2	234+70.9	MEDIAN		2.7	RRFB MEDIAN ISLAND CUT THRU	0	0.00			0.00	0.00	0.00	0.10		
13	RTE.N	OXEYE DR.. TO ARNOLD B GROBMAN DR.	235+56.6	237+91.6	W. SIDE	6	9.9	LARGE RADIUS PERP. AND COMPOUND PERP.	2	132.84			132.84	0.00	35.35	2.35		
13	RTE.N	ARNOLD B GROBMAN DR. UNDER TED JONES BRIDGE	238+47.4	243+28.7	W. SIDE	6	29.0	LARGE RADIUS PERP. (X2)	2	296.27			296.27	0.00	0.00	4.81		
14	RTE.N	BETWEEN PARKING LOT ENTRANCES	243+61.2	244+57.1	W. SIDE	6	26.2	LARGE RADIUS PERP. (X2)	2	29.96			29.96	0.00	0.00	0.96		
14	RTE.N	WACO AVE. TO CIRCLE DR.	244+98.9	247+42.8	W. SIDE	Var. 4.5to6	47.8	LARGE RADIUS PERP. (X2)	2	112.97			112.97	0.00	0.00	2.44		
15	RTE.N	CIRCLE DR. TO MARIETTA DR.	248+02.4	251+72.2	W. SIDE	6.5	36.6	LARGE RADIUS PERP. (X2)	2	178.76			178.76	0.00	76.00	3.70		
15	RTE.N	MARIETTA DR. TO PARKING LOT	252+77.2	253+88.5	W. SIDE	6	13.6	LARGE AND SMALL RADIUS PERP.	2	39.60			57.05	17.45	0.00	1.11		
15	RTE.N	PARKING LOT TO END RETAINING WALL	254+19.5	255+10.5	W. SIDE	5	0.0	SMALL RADIUS PERP.	1	29.16			47.53	18.37	0.00	0.91		4" SIDEWALK
16	RTE.N	END OF RETAINING WALL TO APARTMENT	255+10.5	256+57.5	W. SIDE	5	0.0	SMALL RADIUS PERP.	1		79.12		110.18	31.06	0.00	1.47		7" SIDEWALK FOR VET APARTMENT AND OFFICE
16	RTE.N	APARTMENT TO ALLEY	257+32.6	257+51.3	W. SIDE	5.5	0.0	SMALL RADIUS PERP. (X 2)	2	0.00			5.53	5.53	0.00	0.19	****	
16	RTE.N	AUTO PARTS TO KENNY'S	258+09.9	258+32.9	W. SIDE	6	0.0	SMALL RADIUS PERP. (X 2)	2	0.00			9.18	9.18	0.00	0.23	****	
16	RTE.N	KENNY'S TO ST. ANN'S LN.	259+15.9	259+65.5	W. SIDE	6	14.3	SMALL AND LARGE RADIUS PERP.	2	5.74			32.44	26.70	0.00	0.50	****	
16	RTE.N	ST. ANN'S LN. TO PARKING LOT	260+22.3	260+72.8	W. SIDE	6.5	25.6	DUAL PERP. (X2) AND SMALL RADIUS PERP.	5	36.75			75.12	38.37	0.00	0.51	****	BUMPOUT 1 - INCLUDE SOME MEDIAN QTYS
16 ,17	RTE.N	PARKING LOT TO ENTRANCE	261+13.1	263+34.7	W. SIDE	5	0.0	SMALL RADIUS PERP. (X 2)	2	101.68			131.37	29.69	0.00	2.22		
17	RTE.N	2ND BUMPOUT	263+45.1	263+77.5	W. SIDE	5	9.9	SMALL RADIUS PERP. (X 2)	2	0.00			10.41	10.41	0.00	0.32	****	BUMPOUT 2 - INCLUDE SOME MEDIAN QTYS
17	RTE.N	3RD BUMPOUT/OAKMOUNT AVE.TO ENTR.	264+37.9	265+23.7	W. SIDE	5	9.9	COMPOUND PERP. AND SMALL RADIUS PERP.	2	34.43			70.58	36.15	0.00	0.86		BUMPOUT 3 - INCLUDE SOME MEDIAN QTYS
17	RTE.N	ENTRANCE TO ENTRANCE	265+32.2	266+50.0	W. SIDE	5	0.0	SMALL RADIUS PERP. (X 2)	2	47.25			65.47	18.22	0.00	1.18		
17	RTE.N	ENTRANCE TO ENTRANCE	266+57.9	267+08.6	W. SIDE	5	0.0	SMALL RADIUS PERP. (X 2)	2	10.07			19.67	9.60	0.00	0.51		
17	RTE.N	ENTRANCE TO ENTRANCE	267+16.7	267+61.4	W. SIDE	5	0.0	SMALL RADIUS PERP. (X 2)	2	4.85			12.58	7.73	0.00	0.45		
17	RTE.N	ENTRANCE TO ENTRANCE	267+89.1	268+44.1	W. SIDE	5	0.0	SMALL RADIUS PERP. (X 2)	2	10.52			20.49	9.97	0.00	0.55		
17	RTE.N	ENTRANCE TO ENTRANCE	268+55.2	269+39.8	W. SIDE	5	0.0	SMALL RADIUS PERP. (X 2)	2	27.36			42.55	15.19	0.00	0.85		
18	RTE.N	ENTRANCE TO ENTRANCE	269+53.4	270+07.9	W. SIDE	5	0.0	SMALL RADIUS PERP. (X 2)	2	10.83			20.43	9.60	0.00	0.55		
18	RTE.N	ENTRANCE TO ENTRANCE	270+27.8	271+34.2	W. SIDE	5	0.0	SMALL RADIUS PERP. (X 2)	2	38.68			55.51	16.83	0.00	1.06		
18	RTE.N	ENTRANCE TO ENTRANCE	271+43.3	271+73.6	W. SIDE	5	0.0	SMALL RADIUS PERP. (X 2)	2	0.00			4.35	4.35	0.00	0.30	****	
18	RTE.N	ENTRANCE TO AUGUSTA AVE.	271+88.6	272+95.3	W. SIDE	5	9.9	SMALL RADIUS PERP. AND COMPOUND PERP.	2	36.96			70.73	33.77	0.00	1.07		BUMPOUT 4 - INCLUDE SOME MEDIAN QTYS
8.9	RTE.N	SIGNAL DRIVE TO RAMP 3	198+47.6	202+07.7	E. SIDE	6	31.1	LARGE RADIUS PERP. (X2)	2	197.25			197.25	0.00	345.37	3.60		INCLUDES RAMP 3 SOD
9	RTE.N	RAMP 3 THRU GRASSY ISLAND	202+48.7	204+37.2	E. SIDE	5	20.0	SMALL AND LARGE RADIUS PERP.	2	81.48			81.48	0.00	249.21	1.89		INCLUDES RAMP 3 SOD
9	RTE.N	UNDER I-70 NB	204+92.6	205+78.8	E. SIDE	5	30.0	LARGE RADIUS PERP. (X2)	2	21.99			21.99	49.42 ASPH.	0.00	0.86		ASPHALT ADD THIS 49.42 SY QTY TO PAVEMENT
9	RTE.N	SOUTH OF I-70 GOING SOUTH/AT THE GRASSY ISLAND	206+36.5	208+85.7	E. SIDE	5	38.0	LARGE RADIUS PERP. (X2)	2	113.19			113.19	0.00	247.97	2.49		
9.10.11	RTE.N	RAMP TO UNIVERSARY PL. DR. TO NORMANDY TRACE DR.	209+18.1	222+15.6	E. SIDE	5	12.0	LARGE RADIUS PERP. AND COMPOUND PERP. (X2)	3	674.95			674.95	0.00	1088.18	12.98	****	ADDED EXTRA FOR THE SW DOWN NORMANDY TRACE DR.
11.12	RTE.N	NORMANDY TRACE DR. TO COOL VALLEY DR.	222+80.1	224+71.3	E. SIDE	6.5	43.0	COMPOUND PERP. SMALL AND LARGE RADIUS PERP.	3	93.67			93.67	0.00	51.84	1.91		
12	RTE. N	COOL VALLEY DR. TO APARTMENT ENTR. 1	227+69.8	229+20.5	E. SIDE	6	50.3	LARGE RADIUS PERP. (X2)	2	73.86		79.07	82.00	8.14	0.00	1.51		SIDEWALK AND CURB RAMPS NEXT TO BARRIER.
12	RTE.N	APARTMENT ENTR. 1 TO APARTMENT ENTR. 2	229+71.2	231+51.7	E. SIDE	6	0.0	LARGE RADIUS PERP. (X2)	2	92.68			92.68	0.00	0.00	1.81		
12	RTE.N	APARTMENT ENTR. 2 TO WALKER LN.	231+88.5	233+06.9	E. SIDE	6	15.4	LARGE RADIUS PERP. (X2)	2	41.90			41.90	0.00	0.00	1.18		
13	RTE.N	WALKER LN. TO ANNEX ENTR. 1	233+75.3	233+96.5	E. SIDE	6	15.4	LARGE RADIUS PERP. (X2)	2	0.00			0.00	0.00	0.00	0.21		
13	RTE.N	ENTR. THRU GRASSY ISLAND	234+27.6	235+05.7	E. SIDE	6	14.0	LARGE RADIUS PERP. AND TYPE 3 PARALLEL	2	3.57			3.57	0.00	154.48	0.78		
13	RTE.N	RRFB MEDIAN	234+64.2	234+77.4	MEDIAN	6	26.8	MEDIAN ISLAND CUT THRU	2	0.00			0.00	0.00	0.00	0.13		RRFB MEDIAN ISLAND CUT THRU
16	RTE.N	BERMUDA DR. TO NORTH HILLS DR.	257+74.7	260+93.0	E. SIDE	6	23.3	COMPOUND PERP. AND COMPOUND PERP.	2	102.40			102.40	0.00	96.58	3.18		SIDEWALK
16	RTE.N	NORTH HILLS DR. ISLAND	261+20.4	262+04.2	E. SIDE	5	10.0	SMALL RADIUS PERP. (X 2)	2	24.06			41.48	17.42	0.00	0.84		
17	RTE.N	NORTH HILLS DR. TO TOWER GROVE DR.	262+48.4	264+93.6	E. SIDE	5	22.0	COMPOUND PERP. (X2)	2	108.05			121.35	13.30	91.64	2.45		
17	RTE.N	TOWER GROVE DR. TO ENTR.	265+46.1	267+07.1	E. SIDE	5	10.4	COMPOUND PERP. AND SMALL RADIUS PERP.	2	65.34			99.97	34.63	12.54	1.61		
17	RTE.N	ENTR. TO ENTR.	267+23.8	268+12.2	E. SIDE	5		LARGE RADIUS PERP. (X2)	2	25.49			40.36	14.87	0.00	0.88		
17.18	RTE.N	ENTR. TO OPHANAGE 1ST ENTR.	268+40.8	271+40.3	E. SIDE	5		LARGE AND SMALL RADIUS PERP.	2	143.79			191.88	48.09	0.00	3.00		
18	RTE.N	OPHANAGE 1ST ENTR. TO OPHANAGE 2ND ENTR.	271+95.3	274+50.7	E. SIDE	5		SMALL RADIUS PERP. (X 2)	2	120.99			120.99	0.00	62.97	2.55		
18	RTE.N	OPHANAGE 2ND ENTR. TO END OF PROJECT	274+69.2	275+27.1	E. SIDE	5		SMALL RADIUS PERP.	1	28.60			28.60	0.00	0.00	0.58		
4 THRU 18	RTE.N	BEGINNING OF PROJECT TO END OF PROJECT			E. & W.SIDE	5				28.00								***** ADDED 4" S.Y. QTYs FOR DAMAGED PANELS TBD BY ENG.
						ADA SUBTOTALS	898.2		145	5087.68	79.12	79.07	5623.4	484.6	4351.0	126.19		
						PAVED APPROACH SUBTOTALS							3167.3					
						CURB & GUTTER SUBTOTALS							1937.0					
						CONCRETE MEDIAN ISLAND								125.8				
						PAY TOTALS	899		145	5087.7	79.1	79.1	10728.0	610.4	4351	126.2		

* INDICATES PAY TOTAL LISTED IN ANOTHER TABULATION
**** EXCEPTIONS TO 15' PAY LIMITS ON SHOWN ON SPECIAL SHEETS.
***** ADDED 4" S.Y. QUANTITIES FOR DAMAGED PANELS TBD BY ENG.

STATE OF MISSOURI
JAMIE F. RANA
NUMBER PE-2005001034
PROFESSIONAL ENGINEER
Jamie F. Rana
02/22/2024 1:29:07 PM
JAMIE F. RANA - CIVIL
MO-PE-2005001034

DATE PREPARED
2/22/2024

ROUTE	STATE
N	MO
DISTRICT	SHEET NO.
SL	3

COUNTY
ST. LOUIS

JOB NO.
J6S3599

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

REV.	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)

SUMMARY OF QUANTITIES
SHEET 8 OF 25

DISCLAIMER

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PAVEMENT

PLAN SHEET NO.	STATION	STATION	ROADWAY	OFFSET	LOCATION	AREA S.F.	COLDMILLING BITUMINOUS PAVEMENT FOR REMOVAL OF SURFACING (3 IN. THICK OR LESS) S.Y.	ASPHALTIC CONCRETE MIXTURE PG70-22 (SP125CLP MIX) (2") TONS	ASPHALTIC CONCRETE MIXTURE PG70-22 (SP125CLP MIX) (3") TONS	BITUMINOUS PAVEMENT MIXTURE PG64-22 (BP-1) (2") TONS	FILL BITUMINOUS PAVEMENT MIXTURE PG64-22 (BP-1) (2") TONS	TACK COAT NON OR LOW TRACKING TACK GAL.	CONCRETE PAVEMENT (7 1/2 IN. NON-REINFORCED 15 FT. JOINTS) S.Y.	CONCRETE PAVEMENT (10 IN. NON-REINFORCED 15 FT. JOINTS) S.Y.	MISC. OPTIONAL PAVEMENT S.Y.	TYPE 5 AGGREGATE FOR BASE (6 IN. THICK) S.Y.	COMPACTING IN CUT STA.	REMARKS
101	199+85.6	201+36.3	N	RT.	SHOULDER	240							26.7			26.7		TYPE 'D' BARRIER
109	167+76.2	168+14.9	N	LT.	ENTRANCE	173	19.2		3.1			2.5						
109	167+88.8	176+00.0	N	-	ROADWAY	30771	3419.0	366.0				444.5						
109	167+88.8	176+00.0	N	-	ROADWAY	20442	2271.3		364.7			295.3						
109	168+58.8	176+00.0	N	LT.	SHOULDER	6045	671.7			72.7		87.3						
109	168+65.7	169+00.9	N	LT.	ENTRANCE	204	22.7			2.5		2.9						
109	169+22.2	169+73.8	N	LT.	ENTRANCE	254	28.2			3.1		3.7						
109	170+01.9	170+69.6	N	LT.	ENTRANCE	378	42.0			4.5		5.5						
109	172+56.1	172+96.5	N	LT.	ENTRANCE	733	81.4			8.8		10.6						
109	173+38.2	173+87.0	N	LT.	ENTRANCE	715	79.4			8.6		10.3						
110	176+00.0	185+50.0	N	-	ROADWAY	37917	4213.0	451.0				547.7						
110	176+00.0	185+50.0	N	-	ROADWAY	22248	2472.0		397.0			321.4						
110	176+00.0	178+03.1	N	LT.	SHOULDER	2274	252.7			27.3		32.8						
111	188+29.9	189+51.9	N	RT.	SIDE STREET	5219	579.9			62.8		75.4						EVANS AVE.
111	189+06.7	189+22.3	N	RT.	SIDE STREET	425							47.2			47.2		EVANS AVE. ISLAND REMOVAL
111	185+50.0	191+80.0	N	-	ROADWAY	27611	3067.9	328.4				398.8						
111	185+50.0	191+80.0	N	-	ROADWAY	14638	1626.4		261.2			211.4						
111	191+80.0	192+85.0	N	-	ROADWAY	2617	290.8	31.1				37.8						
111	191+80.0	192+85.0	N	-	ROADWAY	1343	149.2	18.7				19.4						CROWN CORRECTED
111	191+80.0	192+85.0	N	-	ROADWAY	2669	296.6		57.3			38.6						CROWN CORRECTED
111	192+85.0	194+93.5	N	-	ROADWAY	7876	875.1	93.7				113.8						
111	192+85.0	194+93.5	N	-	ROADWAY	4861	540.1		86.7			70.2						
111	190+23.8	193+13.4	N	LT.	ROADWAY	-											2.9	DRAINAGE SYSTEM 4
112	201+08.2	202+97.8	N. I-70	LT.	SHLDR., RAMP	4999								555.4		555.4	1.7	RAMP 3B AND RTE. N SHLDR.
112	1+99.9	2+78.1	RAMP 3B	-	RAMP	-											0.8	IN CONJUNCTION WITH ABOVE QUANTITY
112.113	205+00.4	205+70.0	N	LT.	MEDIAN	445.0					5.4							
112.113	204+79.5	205+49.3	N	RT.	MEDIAN	440.0					5.3							
113	207+69.2	209+80.7	N. I-70	RT.	SHLDR., RAMP	6218								690.9		690.9	1.8	RAMP 2B AND RTE. N SHLDR.
113	2+08.7	2+95.3	RAMP 2B	-	RAMP	-											0.9	IN CONJUNCTION WITH ABOVE QUANTITY
115	232+20.8	235+25.0	N	-	ROADWAY	13560	1506.7	161.3				195.9						
115	234+95.3	235+25.0	N	LT.	SHOULDER	296	32.9			3.6		4.3						
115	233+96.2	234+28.0	N	LT.	ENTRANCE	301	33.4	3.6				4.3						
115	235+04.5	235+25.0	N	LT.	ENTRANCE	251	27.9			3.0		3.6						
115	223+03.6	233+07.4	N	LT.	SHOULDER	-											7.6	STA. EQ. IN ALIGNMENT
115.116	232+20.8	237+80.5	N	RT.	SHOULDER	3619									402.1	402.1	5.6	EXIST. SHLDR. TO SB RIGHT TURN LANE
116	235+25.0	246+00.0	N	-	ROADWAY	46682	5186.9	555.3				674.3						
116	235+25.0	235+39.1	N	LT.	ENTRANCE	72	8.0			0.9		1.0						
116	235+25.0	237+95.9	N	LT.	SHOULDER	2490	276.7			29.9		36.0						
116	237+80.5	238+86.8	N	RT.	ENTRANCE	973	108.1	11.6				14.1						ARNOLD B. GROBMAN DR.
116	240+58.1	246+58.1	N	LT.	SHOULDER	4639	515.4			55.8		67.0						
117	247+42.8	248+02.4	N	RT.	ENTRANCE	1202	133.6			14.5		17.4						CIRCLE DR.
117	246+00.0	256+00.0	N	LT.	SHOULDER	8777	975.2			105.5		126.8						
117	246+00.0	256+00.0	N	-	ROADWAY	44181	4909.0	525.5				638.2						
117	251+69.1	252+76.5	N	RT.	ENTRANCE	1808	200.9			21.7		26.1						MARIETTA DR.
118	256+00.0	266+00.0	N	-	ROADWAY	35991	3999.0	428.1				519.9						
118	256+00.0	257+20.5	N	LT.	SHOULDER	1282	142.4			15.4		18.5						
118	257+25.7	259+31.2	N	LT.	SIDE STREET	5049	561.0			60.7		72.9						BERMUDA DR.
118	259+66.2	260+20.4	N	RT.	SIDE STREET	1575	175.0			27.9		33.3						ST. ANN'S LANE
118	260+83.5	261+20.3	N	LT.	SIDE STREET	306	34.0			5.2		4.4						N. HILLS DR.
118	262+04.1	262+58.3	N	LT.	SIDE STREET	424	47.1			12.9		9.0						N. HILLS DR.
118	261+19.5	263+31.2	N	-	ROADWAY	1376	152.9			16.5		19.9						EXIST. LANE TO SHLDR.
118	263+79.3	264+32.5	N	RT.	SIDE STREET	309	34.3			10.5		6.5						OAKMOUNT AVE.
118	264+83.1	266+00.0	N	-	ROADWAY	800	88.9			9.6		11.6						EXIST. LANE TO SHLDR.
118	264+93.4	265+69.7	N	LT.	SIDE STREET	925	102.8			11.1		13.4						TOWER GROVE DR.
118	259+92.8	261+30.3	N	RT.	SHLDR., SIDE STREET	-											1.4	DRAINAGE SYSTEM 1
118	0+38.4	1+20.4	ST. ANN'S LN.	LT.	SIDE STREET	-											0.9	DRAINAGE SYSTEM 1
119	266+00.0	271+65.0	N	-	ROADWAY	18024	2002.7	214.4				260.3						
119	266+00.0	271+65.0	N	-	ROADWAY	4323	480.3			52.0		62.4						
119	271+65.0	272+29.0	N	-	ROADWAY	457	50.8			5.5		6.6						
119	271+65.0	272+65.0	N	-	ROADWAY	3195	355.0	42.0				46.2						CROWN CORRECTED
119	272+65.0	274+70.2	N	-	ROADWAY	6902	766.9	82.1				99.7						
119	272+87.8	273+34.8	N	RT.	SIDE STREET	982	109.1			42.3		27.3						AUGUSTA AVE.
119	273+50.8	274+70.2	N	-	ROADWAY	905	100.6			10.9		13.1						NEW SHOULDER
211	190+23.8	193+13.4	N	LT.	ROADWAY	1696									188.4	188.4		REPLACEMENT PAVE. FOR DRAINAGE SYS. 4
213	259+92.8	261+30.3	N. ST. ANN'S LN.	RT.	SIDE STREET, ROADWAY	2186									242.9	242.9		REPLACEMENT PAVE. FOR DRAINAGE SYS. 1
					SUBTOTALS		44116.1	3312.8	1170.0	694.8	10.7	5750.8	73.9	1246.3	402.1	1722.3	23.6	
					PAY TOTALS		44117	4482.8		705.5		5751	73.9	1246.3	402.1	1722.3	23.6	

STATE OF MISSOURI
JAMIE F. RANA
NUMBER PE-2005001034
PROFESSIONAL ENGINEER
Jamie F. Rana
01/27/2024 2:55:31 PM
JAMIE F. RANA - CIVIL
MO-PE-2005001034

DATE PREPARED
1/25/2024

ROUTE	STATE
N	MO
DISTRICT	SHEET NO.
SL	3

COUNTY
ST. LOUIS

JOB NO.
J6S3599

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)

SUMMARY OF QUANTITIES
SHEET 9 OF 25

REV.

TUBULAR MARKERS

PLAN SHEET NO.	ROADWAY	INTERSECTION	18" YELLOW ISLAND TUBULAR MARKER EACH	18" WHITE ISLAND TUBULAR MARKER EACH	CURB REFLECTORS L.F.	REMARKS
7	RTE. N	EVANS		3		
8	RTE. N	SIGNAL HILL DR.		6		
8	RTE. N	SIGNAL HILL DR.	1			NORTH END OF MEDIAN ISLAND
9	RTE. N	I-70	7			WB RAMPS (L = 150')
10	RTE. N	I-70	6			EB RAMPS (L = 130')
10	RTE. N	UNIVERSITY PL. DR.	4			INSTALL 2 ON NORTH SIDE ISLAND
11 & 12	RTE. N	NORMANDY TRACE DR.	2			ON RTE. N - NOT CROSS STREET
12	RTE. N	COOL VALLEY DR.	3			
13	RTE. N	RRFB	6		34	
16	BERMUDA	RTE. N		3		LARGE ISLAND
16	RTE. N	ST. ANN'S LANE		4		NARROW ISLAND SEPARATING LT. TURN & THRU FOR SB RTE. N (L = 77')
16	RTE. N	ST. ANN'S LANE		6	53	BUMP OUT ISLAND
17	RTE. N	OAKMOUNT		5		BUMP OUT ISLAND
18	RTE. N	AUGUSTA		2		BUMP OUT ISLAND
						BUMP OUT ISLAND
		PAY TOTALS	29	29	87	

NOTE: SPACING OF TUBULAR MARKERS SHALL BE 20' FOR LONG NARROW ISLANDS.
NOTE: PLACE CURB REFLECTORS CONTINUOUS ALONG ENTIRE RADIUS

PERMANENT STRIPING

PLAN SHEET NO.	ROADWAY	STATION	STATION	INTERSECTION	WATERBORNE PAVEMENT MARKING PAINT, TYPE 'P' BEADS						HIGH BUILD WATERBORNE PAVEMENT MARKING PAINT, TYPE 'L' BEADS				PAVEMENT MARKING REMOVALS	REMARKS
					4" S.W. L.F.	4" I.W. L.F.	4" I.W. (w/ CONTRAST) L.F.	8" S.W. L.F.	4" S.Y. L.F.	4" I.Y. L.F.	6" S.W. L.F.	6" I.W. L.F.	6" S.Y. L.F.	12" S.W. L.F.	L.F.	
200	RTE. N	167+88.8	176+00.0	BEGIN PROJECT	1622.4	405.6			1622.4	405.6						
201	RTE. N	176+00.0	178+02.6	COOL VALLEY ELEM.	583.2	101.3			405.2	101.3						
201	RTE. N	179+29.2	185+50.0	COOL VALLEY ELEM.	1241.6	269.9			1125.1	227.2						
202	RTE. N	185+50.0	188+69.1	EVANS	622.0	159.5			737.0	107.5						
202	RTE. N	188+69.1	195+50.0	EVANS	1361.8	312.2	28.3		1255.9	223.8					28.3	
203	RTE. N	195+50.0	205+25.0	WB I-70	1650.9		441.2	185.8	1617.0	135.0					441.2	
203	SIGNAL HILL DR.	-	-	RTE. N	240.0				262.0							
203	WB 70 RAMPS	-	-	RTE. N							1499.0	65.3	1093.7	303.0		
204	EB 70 RAMPS	-	-	RTE. N							1346.6	84.0	1126.0	285.0		
204	RTE. N	205+25.0	214+00.0	EB I-70	1757.3		342.4	261.2	1320.7	0.0					342.4	
205	RTE. N	214+00.0	223+00.0	UNIVERSITY PL. DR.	1672.3		426.2		1397.2	0.0					426.2	
206	RTE. N	223+00.0	235+25.0	RRFB	2450.0		356.1		3100.4	0.0					356.1	
207	RTE. N	235+25.0	242+15.7	ARNOLD B. GROBAN DR.	1789.0	0.0			2033.2	0.0						
207	RTE. N	242+15.7	246+00.0	ARNOLD B. GROBAN DR.	768.6	0.0			768.6	192.2						
208	RTE. N	246+00.0	256+00.0	MARIETTA DR.	2000.0	0.0			2000.0	500.0						
209	RTE. N	256+00.0	266+00.0	BERMUDA/ST. ANN'S LANE	1749.6	0.0			2165.0	167.7						
209	BERMUDA	-	-	RTE. N	318.3	0.0			189.6	0.0						
209	ST. ANN'S LN.	-	-	RTE. N	0.0	0.0			96.0	0.0						
210	RTE. N	266+00.0	274+78.7	RTE. 115	1757.4	0.0			1757.4	439.4	1926.4					
210	RTE. N	274+78.7	275+63.2	RTE. 115	155.0	0.0			169.0	4.5						
				SUBTOTALS	21739.4	1248.5	1594.2	447	22021.7	2504.2	4772	149.3	2219.7	588	1594.2	
				SUBTOTALS (THERMO)	0	0	0.0	0	0	0	0	0	0	0	2238.8	
				SUBTOTALS (TEMP)	8735.1	0	0	0	17523.4	0	0	0	0	0	17796.7	
				PAY TOTALS	33317			447	42049		4921		2220	588	21630	

NOTE: ALL 6" I.W. NOTED ABOVE SHALL HAVE CONTRAST STRIPING - INCLUDED AT NO DIRECT PAY.

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STATE OF MISSOURI
JAMIE F. RANA
NUMBER PE-2005001034
PROFESSIONAL ENGINEER
Jamie F. Rana
01/27/2024 2:37:53 PM
JAMIE F. RANA - CIVIL
MO-PE-2005001034

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

SUMMARY OF QUANTITIES
SHEET 10 OF 25

REV.

PERMANENT STRIPING – THERMOPLASTIC (BIKE LANE)

PLAN SHEET NO.	ROADWAY	STATION	INTERSECTION	PREFORMED THERMOPLASTIC PAVEMENT MARKING		REMARKS
				BIKE LANE (BIKE SYMBOL) EACH	BIKE LANE (SHARED USE SHARROW) EACH	
200	NB RTE. N	167+95.0	S. OF BROTHERTON	1	1	
200	SB RTE. N	169+94.0	S. OF BROTHERTON	1	1	
200	NB RTE. N	172+94.0	AT BOX CULVERT	1	1	
200	SB RTE. N	175+03.2	S. OF BOX CULVERT	1	1	
201	NB RTE. N	175+32.1	N. OF COOL VALLEY ELEM.	1	1	
201	SB RTE. N	180+06.0	S. OF COOL VALLEY ELEM.	1	1	
201	NB RTE. N	182+31.5	S. OF COOL VALLEY ELEM.	1	1	
201	SB RTE. N	185+14.7	N/A	1	1	
202	NB RTE. N	187+31.6	N. OF EVANS	1	1	
202	SB RTE. N	189+92.3	S. OF EVANS	1	1	
202	NB RTE. N	192+32.2	N. OF EMERLING	1	1	
202	SB RTE. N	194+93.2	N. OF EMERLING	1	1	AT ASPHALT/CONC. PVMT CHANGE
203	NB RTE. N	197+22.9	N. OF SIGNAL HILL DR.	1	1	4" S.Y. USED TO SURROUND 24" S.Y.
203	SB RTE. N	199+71.0	S. OF I-70	1	1	
203	NB RTE. N	202+37.9	N. OF I-70	1	1	
203	SB RTE. N	203+00.9	S. OF I-70	1	1	
204	NB RTE. N	207+36.9	S. OF I-70	1	1	
204	SB RTE. N	209+86.6	S. OF I-70	1	1	
204	NB RTE. N	212+27.5	N. OF UNIV. PLACE DR.	1	1	
205	SB RTE. N	214+85.8	S. OF UNIV. PLACE DR.	1	1	
205	NB RTE. N	216+44.6	S. OF UNIV. PLACE DR.	1	1	
205	SB RTE. N	218+52.8	S. OF UNIV. PLACE DR.	1	1	
205	NB RTE. N	220+33.3	N. OF NORMANDY TRACE DR.	1	1	
206	SB RTE. N	223+06.4	AT NORMANDY TRACE DR.	1	1	
206	NB RTE. N	227+87.2	S. OF COOL VALLEY DR.	1	1	
206	SB RTE. N	230+42.6	N. OF RRFB	1	1	
206	NB RTE. N	232+54.2	N. OF RRFB	1	1	
206	SB RTE. N	235+06.1	AT RRFB	1	1	
207	NB RTE. N	237+58.0	N. OF ARNOLD B. GROBMAN DR.	1	1	
207	SB RTE. N	238+91.9	S. OF ARNOLD B. GROBMAN DR.	1	1	
207	NB RTE. N	242+93.4	S. OF PED. BRIDGE	1	1	
207	SB RTE. N	243+02.9	S. OF PED. BRIDGE	1	1	
208	SB RTE. N	246+67.3	N. OF CIRCLE DR.	1	1	
208	NB RTE. N	247+94.1	AT CIRCLE DR.	1	1	
208	SB RTE. N	251+70.5	N. OF MARIETTA DR.	1	1	
208	NB RTE. N	252+94.2	S. OF MARIETTA DR.	1	1	
209	SB RTE. N	256+55.6	N. OF BERMUDA AVE.	1	1	
209	NB RTE. N	257+96.6	N. OF BERMUDA AVE.	1	1	
209	SB RTE. N	261+44.0	S. OF ST. ANN'S LN.	1	1	
209	NB RTE. N	263+19.3	S. OF ST. ANN'S LN.	1	1	
210	SB RTE. N	266+34.7	N/A	1	1	
210	NB RTE. N	268+18.9	N/A	1	1	
210	SB RTE. N	271+34.3	N. OF AUGUSTA AVE.	1	1	
210	NB RTE. N	272+64.9	N. OF AUGUSTA AVE.	1	1	
			PAY TOTALS	44	44	

NOTE: ALL BIKE MARKINGS SHALL BE IN CENTER OF LANE

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STATE OF MISSOURI
JAMIE F. RANA
NUMBER PE-2005001034
PROFESSIONAL ENGINEER

Jamie F. Rana
01/27/2024 2:38:28 PM
JAMIE F. RANA - CIVIL
MO-PE-2005001034

DATE PREPARED
1/25/2024

ROUTE	STATE
N	MO
DISTRICT	SHEET NO.
SL	3

COUNTY
ST. LOUIS

JOB NO.
J6S3599

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)

SUMMARY OF QUANTITIES
SHEET 11 OF 25

REV.

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PERMANENT STRIPING – THERMOPLASTIC

PLAN SHEET NO.	ROADWAY	STATION	STATION	INTERSECTION	PREFORMED THERMOPLASTIC PAVEMENT MARKING																		REMARKS
					4" S.W. L.F.	4" D.W. L.F.	8" D.W. L.F.	8" S.W. L.F.	4" S.Y. L.F.	4" D.Y. L.F.	24" S.W. L.F.	24" S.Y. L.F.	LEFT ARROW EACH	RIGHT ARROW EACH	STR. ARROW EACH	COMB. ARROW STR/LT. EACH	COMB. ARROW STR/RT. EACH	COMB. ARROW STR/LT/RT. EACH	WORD (ONLY) EACH	WHITE MIDBLOCK, 30" EACH	12" WHITE YIELD LINE TRIANGLES EACH	LANE REDUCTION ARROW EACH	PAVEMENT MARKING REMOVALS L.F.	PAVEMENT MARKING REMOVAL SYMBOLS EACH	
200	RTE. N	167+95.0	–	S. OF BROTHERTON									1										0	
200	RTE. N	169+90.0	169+98.0	N/A									2										0	
200	RTE. N	172+90.0	172+98.0	N/A									2										0	
201	RTE. N	176+90.0	176+98.0	N. OF COOL VALLEY ELEM.									2										0	
201	RTE. N	–	–	AT COOL VALLEY ELEM.							97									29			0	
201	RTE. N	179+29.2	180+17.3	S. OF COOL VALLEY ELEM.	161.9																			
201	RTE. N	180+06.0	–	S. OF COOL VALLEY ELEM.									1										0	
201	RTE. N	181+60.7	181+68.7	N/A									2										0	
201	RTE. N	185+10.7	185+18.7	N/A									2										0	
201/202	RTE. N	184+32.5	186+30.3	N. OF EVANS			49.4																0	
202	RTE. N	186+30.3	188+69.2	N. OF EVANS				238.9															0	
202	RTE. N	186+36.7	–	N. OF EVANS										1									0	
202	RTE. N	187+84.4	–	N. OF EVANS										1									0	
202	RTE. N	188+15.7	–	N. OF EVANS	51								1										0	
202	EVANS	–	–	RTE. N	49				143.7		98	59.6	1	1						27	13		0	4" S.Y. USED TO AROUND 24" S.Y.
202	RTE. N	190+50.8	–	S. OF EVANS	58								1										0	
202	RTE. N	191+83.3	191+91.3	N/A									2										0	
202	RTE. N	194+33.4	194+41.4	N/A									2										0	
																								BEGIN CONC. SECTION
203	RTE. N	196+83.4	196+91.4	N. OF SIGNAL HILL DR.									2										0	
203	SIGNAL HILL	–	–	RTE. N							12		1	1							9		0	
203	RTE. N	199+71.0		N. OF I-70										1									1	
203	RTE. N	201+71.6	–	N. OF I-70									2										0	NEW LOCATION UNDER RAMP BRIDGE
203	RTE. N	203+00.9	–	N. OF I-70									2										2	
203	I-70 RAMP 3 (WB OFF)	–	–	RTE. N									2	1									3	
203	I-70 RAMP 3 (WB OFF)	–	–	RTE. N																8	11		0	
203	I-70 R3 (WB OFF TO SB N)	–	–	RTE. N							25									11		150	0	REMOVAL OF RAMP STOP BAR
203	WB ON-RAMP	–	–	RTE. N																20		1	1	ARROW OFF-SHEET
203/204	RTE. N	–	–	I-70		300.6																	0	
204	I-70 RAMP 2 (EB OFF)	–	–	RTE. N									2	1									3	
204	I-70 RAMP 2 (EB OFF)	–	–	RTE. N																	10		0	
204	I-70 R2 (EB OFF TO NB N)	–	–	RTE. N							25										11	150	0	REMOVAL OF RAMP STOP BAR
204	EB ON-RAMP	–	–	RTE. N																	19	1178	0	
204	RTE. N	207+80.7	–	S. OF I-70									2										2	
204	RTE. N	211+08.8	–	S. OF I-70										1									1	
204	RTE. N	212+58.2	–	UNIVERSITY PL. DRIVE										1	2								2	N. OF INTERSECTION
204	RTE. N	–	–	UNIVERSITY PL. DRIVE																14			0	
204	RTE. N	213+59.2	–	UNIVERSITY PL. DRIVE																		138	0	REMOVAL OF SB STOP BAR
204	RTE. N	211+31.2	213+61.9	UNIVERSITY PL. DRIVE																		288.4	0	REMOVAL OF S.W. & I.W. BEFORE INTERSECTION
204/205	RTE. N	–	–	UNIVERSITY PL. DRIVE		43.4																	0	
205	RTE. N	214+60.8	216+51.3	UNIVERSITY PL. DRIVE	190.5						35												0	
205	RTE. N	219+58.9	221+51.1	NORMANDY TRACE DR.	193.5																		0	
205	RTE. N	215+34.1	216+44.6	UNIVERSITY PL. DRIVE									2		2								1	S. OF INTERSECTION
205	RTE. N	220+05.0	221+34.6	NORMANDY TRACE DR.									2										2	
204/205	UNIV. PL. DR.	–	–	RTE. N							23									12			0	
																								END CONC. SECTION
205/206	RTE. N	225+52.8	227+16.6	REMOVE S.Y. & S.W.																		334.4	0	N. OF COOL VALLEY IN MEDIAN
206	RTE. N	231+29.7	235+25.0	NEW RRFB SIGNAL								113.4								9	20		0	
207	RTE. N	235+25.0	237+66.9	NEW RRFB SIGNAL								50.6											0	
207	RTE. N	235+99.0	237+56.1	N. OF GROBMAN DR.										3					2				0	
207	RTE. N	238+48.2	239+27.4	S. OF GROBMAN DR.									2						1				0	
207	RTE. N	238+39.4	242+15.7	S. OF GROBMAN DR.	150	56																	0	
207	RTE. N	242+61.9	242+69.9	N/A									2										0	
207	ARNOLD B. GROBMAN DR.	–	–	RTE. N							70.7	6.9											0	INCLUDES STOP BARS & 24" (45 DEG. HASH AREAS)
208	RTE. N	246+63.7	246+71.7	N/A									2										0	
208	RTE. N	250+63.7	250+71.7	N/A									2										0	
208	RTE. N	254+63.7	254+71.7	N/A									2										0	
209	BERMUDA	–	–	RTE. N							13			1		1					23		0	
209	ST. ANN'S LN.	–	–	RTE. N							32.4							1		11			0	
209	RTE. N	256+55.6	259+20.8	N. OF BERMUDA	326.9	26.4					24												0	
209	RTE. N	257+96.6	–	N. OF BERMUDA									1				1						0	
209	RTE. N	260+41.2	263+19.3	S. OF BERMUDA	122.1	48.7					23									7			0	
209	RTE. N	261+26.2	261+34.7	S. OF BERMUDA									1		1								0	
209	RTE. N	263+65.3	263+73.3	N/A									2										0	
209	RTE. N	–	–	ST. ANN'S LANE						125													0	LT. TURN FROM ST. ANN'S LANE
209	RTE. N	–	–	ST. ANN'S LANE						99.9													0	NB LT. TURN TO ST. ANN'S LANE
210	RTE. N	267+64.9	267+72.9	N/A									2										0	
210	RTE. N	270+14.9	270+22.9	N/A									2										0	
210	RTE. N	272+64.9	272+72.9	N/A									2										0	
				SUBTOTALS	1302.9	475.1	49.4	238.9	143.7	224.9	478.1	230.5	56	13	5	1	1	1	3	148	116	1	2238.8	18	
				PAY TOTALS	1778		288		369		478	231	69		5	3			3	148	116	1	**	18	

NOTE: ALL REMOVALS (SYMBOLS) LISTED ABOVE ARE WITHIN CONC. SECTION OF RTE. N
NOTE: ALL ARROWS AND STOP BARS WITHIN CONCRETE SECTIONS SHALL HAVE 1.5" BLACK CONTRAST BORDER AROUND THEM.
NOTE: ALL L.F. PAVEMENT MARKING REMOVALS BASED UPON 4" STRIPE, EXCEPT FOR 6" – SEE JSPs FOR ADDITIONAL DETAILS.
NOTE: ALL DOTTED WHITE STRIPING SHALL HAVE 1.5" BLACK CONTRAST BORDER AROUND THEM.
NOTE: ** INDICATES SEE DIFFERENT TABULATION FOR FINAL PAY TOTAL.

STATE OF MISSOURI
JAMIE F. RANA
NUMBER PE-2005001034
PROFESSIONAL ENGINEER
Jamie F. Rana
01/27/2024 2:39:01 PM
JAMIE F. RANA - CIVIL
MO-PE-2005001034

DATE PREPARED
1/25/2024

ROUTE	STATE
N	MO
DISTRICT	SHEET NO.
SL	3

COUNTY
ST. LOUIS

JOB NO.
J6S3599

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

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

REV.	DESCRIPTION	DATE

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

SUMMARY OF QUANTITIES
SHEET 12 OF 25

ADJUSTING MANHOLES, VALVES, AND PULL BOXES

PLAN SHEET NO.	ROADWAY	STATION	OFFSET	ATG GAS VALVE EACH	ATG WATER VALVE EACH	ATG AT&T MANHOLE EACH	ATG SANITARY SEWER MANHOLE EACH	ATG STORM SEWER MANHOLE EACH	ATG ITS PULL BOX EACH	CULVERT CLEANOUT EACH	REPLACE INLET TOP TO NEW GRADE EACH	CONCRETE MANHOLE APRON EACH	REMARKS
109	RTE. N	171+13.2	29.5' LT.	1									
109	RTE. N	173+50.9	26.9' LT.			1						1	
109	RTE. N	174+48.6	37.0' RT.				1					1	13H1-014S
110	RTE. N	176+94.7	33.2' RT.				1					1	13H1-015S
110	RTE. N	177+70.9	25.6' LT.			1						1	
110	RTE. N	178+10.9	4.1' RT.		1								
110	RTE. N	178+80.9	33.9' RT.				1					1	13H1-016S
137	RTE. N	178+98.9	27.5' LT.						1				
110	RTE. N	180+45.1	32.2' RT.				1					1	13H1-029S
110	RTE. N	180+65.2	24.7' LT.					1					NO MSD#
110	RTE. N	180+69.9	20.8' LT.							1	1		NO MSD#
110	RTE. N	182+67.5	29.7' LT.	1									
110	RTE. N	183+93.3	32.6' RT.				1					1	13H1-030S
110	RTE. N	184+42.5	26.4' RT.			1						1	
110	RTE. N	185+21.9	24.5' LT.					1					13H1-127D
110	RTE. N	185+21.7	20.9' LT.							1			13H1-126D
111	RTE. N	185+65.5	31.1' LT.			1							ON BERNHARDT
111	RTE. N	185+89.1	24.8' LT.					1					NO MSD#
111	RTE. N	186+60.3	27.7' LT.	1									
111	RTE. N	187+44.1	32.2' RT.				1					1	13H1-024S
111	RTE. N	188+46.6	33.1' RT.				1					1	13H1-023S
111	RTE. N	188+81.9	84.9' RT.				1					1	ON EVANS 13H1-126S
111	RTE. N	190+95.8	33.6' RT.				1					1	13H1-025S
111	RTE. N	191+68.3	29.8' RT.			1						1	
111	RTE. N	193+82.0	34.8' LT.					1					13H4-068D
111	RTE. N	194+13.8	34.7' LT.					1					NO MSD#
111	RTE. N	194+84.9	36.8' LT.					1					NO MSD#
111	RTE. N	194+89.2	32.4' LT.							1			NO MSD#
111	RTE. N	191+24.2	43.5' RT.							1			NO MSD#
111	RTE. N	192+49.4	40.8' RT.							1			NO MSD#
			SUBTOTALS 1	3	1	5	9	6	1	5	1	13	

NOTE: ATG = ADJUST TO GRADE
NOTE: PAY TOTAL FOR ADJUSTMENT IS FOR 50% OF ALL NON-MSD STRUCTURES.
NOTE: CULVERT CLEAN-OUT PAY ITEM BEING USED TO CLEAN OUT INLET STRUCTURE.

COVER EXISTING OVERHEAD SIGNS

PLAN SHEET NO.	ROADWAY	STATION	LOCATION	COVER EXIST. OVERHEAD SIGNS EACH	REMARKS
66	RAMP 3	-	RTE. N	1	NORTH RTE. N - ADD CLOSED PLAQUE
			PAY TOTAL	1	

REMOVE & RELOCATE GROUND MOUNT SIGNS

PLAN SHEET NO.	ROADWAY	STATION	LOCATION	REMOVE & RELOCATE GROUND MOUNT SIGNS EACH	REMARKS
178	RTE. N	192+43	LT.	1	SIGN #94 - ADOPT A HWY
179	RTE. N	196+78	LT.	1	SIGN #93b - METRO BUS
179	RTE. N	197+94	LT.	2	SIGNS #91a, 91b
180	RAMP 3	1+30	LT.	1	SIGN #86
181	RAMP 2	1+58.0	LT.	1	SIGN #79
181	RTE. N	214+64	RT.	1	SIGN #62b - STL CO. MAINT. SIGN
183	RTE. N	224+72	LT.	2	STREET SIGNS
185	RTE. N	244+64	RT.	1	PRIVATE NO PARKING SIGN
186	RTE. N	?	RT.	2	STREET SIGNS
187	RTE. N	257+80	LT.	2	STL CO. MAINT. SIGNS
188	RTE. N	262+02	LT.	1	SIGN #18a
188	RTE. N	?	RT.	2	STREET SIGNS
189	RTE. N	?	LT.	2	STREET SIGNS
189	RTE. N	274+15	RT.	1	SIGN #13c - METRO SIGN
			PAY TOTAL	20	

NOTE: SIGNS #62b & #13c NOT LABELED ON PLANS.
NOTE: METRO BUS SIGNS MAY BE RELOCATED BY OTHERS.

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JAMIE F. RANA
NUMBER PE-2005001034
PROFESSIONAL ENGINEER
Jamie F. Rana
01/27/2024 2:39:34 PM
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105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

SUMMARY OF QUANTITIES
SHEET 13 OF 25

REV.

ADJUSTING MANHOLES, VALVES, AND PULL BOXES

PLAN SHEET NO.	ROADWAY	STATION	OFFSET	ATG GAS VALVE EACH	ATG WATER VALVE EACH	ATG AT&T MANHOLE EACH	ATG SANITARY SEWER MANHOLE EACH	ATG STORM SEWER MANHOLE EACH	ATG ITS PULL BOX EACH	CULVERT CLEANOUT EACH	REPLACE INLET TOP TO NEW GRADE EACH	CONCRETE MANHOLE APRON EACH	REMARKS
112	RTE. N	197+59.2	49.0′ RT.				1					0	13H4-036S
112	RTE. N	196+35.2	36.3′ LT.							1			NO MSD#
112	RTE. N	197+29.0	35.5′ LT.							1			13H4-061D
112	RTE. N	198+44.1	61.4′ LT.							1			NO MSD#
112	RTE. N	198+84.1	48.4′ LT.							1			13H4-028D
112	RTE. N	198+43.1	6.2′ RT.							1			NO MSD#
112	RTE. N	200+15.7	47.3′ LT.							1			13H4-024D
112	RTE. N	200+96.4	1.5′ LT.							1			13H4-025D
112	RTE. N	201+79.5	45.7′ RT.							1			NO MSD#
112	RTE. N	198+61.7	59.9′ LT.							1			NO MSD# (3-1ExMH)
113	RTE. N	213+29.8	59.9′ LT.	1									
113	RTE. N	206+36.8	45.4′ LT.							1			13H4-183D
113	RTE. N	209+97.2	57.9′ LT.							1			NO MSD#
113	RTE. N	211+94.1	57.4′ LT.							1			NO MSD#
113	RTE. N	206+20.4	45.7′ RT.							1			13H4-185D
113	RTE. N	209+97.4	45.6′ RT.							1			NO MSD#
114	RTE. N	221+97.7	63.6′ LT.				1					0	14H1-011S
114	RTE. N	214+88.2	41.3′ LT.							1			NO MSD#
114	RTE. N	221+62.8	41.3′ LT.							1			NO MSD#
114	RTE. N	221+81.2	80.6′ LT.							1			NO MSD#
114	RTE. N	222+12.2	78.2′ LT.							1			NO MSD#
114	RTE. N	222+92.0	67.9′ LT.							1			NO MSD# (5-1ExDI)
115	RTE. N	233+84.5	0.9′ LT.		1								
115	RTE. N	233+86.7	2.1′ LT.		1								
115	RTE. N	234+14.2	5.8′ LT.				1					1	14H1-137S
115	RTE. N	233+00.8	46.1′ LT.							1			NO MSD#
115	RTE. N	233+95.5	39.6′ LT.							1			NO MSD#
116	RTE. N	235+57.8	42.4′ RT.							1			14H1-153D
116	RTE. N	235+82.8	39.9′ RT.							1			14H1-154D
116	RTE. N	235+31.6	4.9′ LT.		1								
116	RTE. N	235+42.2	10.8′ LT.				1					1	14H1-136S
116	RTE. N	236+63.0	12.1′ LT.				1					1	14H1-190S
116	RTE. N	237+55.2	3.3′ LT.				1					1	14H1-030S
116	RTE. N	238+05.8	4.9′ RT.		1								
116	RTE. N	238+48.6	15.1′ RT.				1					1	14H1-031S
116	RTE. N	239+44.9	10.0′ RT.		1								
116	RTE. N	240+42.0	14.0′ RT.				1					1	14H1-052S
116	RTE. N	240+50.6	17.6′ RT.		1								
116	RTE. N	241+26.1	27.1′ RT.				1					0	14H1-050S
116	RTE. N	241+80.5	10.9′ RT.		1								
116	RTE. N	244+63.0	17.5′ RT.		1								
116	RTE. N	244+80.0	21.8′ RT.				1					1	14H1-049S
116	RTE. N	244+80.3	43.1′ RT.				1					0	14H1-046S
116	RTE. N	245+20.7	14.9′ RT.		1								
			SUBTOTALS 2	1	9	0	11	0	0	23	0	7	

NOTE: ATG = ADJUST TO GRADE
NOTE: PAY TOTAL FOR ADJUSTMENT IS FOR 50% OF ALL NON-MSD STRUCTURES.
NOTE: CULVERT CLEAN-OUT PAY ITEM BEING USED TO CLEAN OUT INLET STRUCTURE.

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STATE OF MISSOURI
JAMIE F. RANA
NUMBER PE-2005001034
PROFESSIONAL ENGINEER
Jamie F. Rana
01/27/2024 2:40:56 PM
JAMIE F. RANA - CIVIL
MO-PE-2005001034

DATE PREPARED
1/25/2024

ROUTE	STATE
N	MO
DISTRICT	SHEET NO.
SL	3

COUNTY
ST. LOUIS
JOB NO.
J6S3599
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)

SUMMARY OF QUANTITIES
SHEET 14 OF 25

REV.

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

ADJUSTING MANHOLES, VALVES, AND PULL BOXES

PLAN SHEET NO.	ROADWAY	STATION	OFFSET	ATG GAS VALVE EACH	ATG WATER VALVE EACH	ATG AT&T MANHOLE EACH	ATG SANITARY SEWER MANHOLE EACH	ATG STORM SEWER MANHOLE EACH	ATG ITS PULL BOX EACH	CULVERT CLEANOUT EACH	REPLACE INLET TOP TO NEW GRADE EACH	CONCRETE MANHOLE APRON EACH	REMARKS
117	RTE. N	247+88.6	5.8′ RT.				1					1	14H1-048S
117	RTE. N	248+18.5	28.9′ RT.					1					14H1-037D
117	RTE. N	248+18.2	21.3′ RT.							1			14H1-034D
117	RTE. N	249+25.7	30.8′ LT.	1									
117	RTE. N	250+37.5	29.0′ RT.					1					14H4-001D
117	RTE. N	250+37.5	22.6′ RT.							1			NO MSD#
117	RTE. N	252+18.2	27.9′ LT.	2									
117	RTE. N	252+36.6	29.7′ RT.				1					0	14H4-129S
117	RTE. N	252+94.4	22.2′ RT.							1			14H4-084D
117	RTE. N	252+95.1	31.8′ RT.					1					14H4-085D
117	RTE. N	253+29.9	24.9′ RT.			1						0	
117	RTE. N	253+85.0	15.5′ RT.				1					1	14H4-143S
117	RTE. N	255+94.4	22.0′ RT.							1			14H4-082D
117	RTE. N	255+94.6	27.1′ RT.					1					14H4-083D
117	RTE. N	255+97.1	25.3′ RT.	1									
118	RTE. N	256+20.1	10.5′ RT.				1					1	14H4-121S
118	RTE. N	256+30.3	29.2′ RT.		1								
118	RTE. N	257+28.8	26.2′ RT.		1								
118	RTE. N	259+47.8	15.9′ RT.				1					1	14H4-119S
118	RTE. N	259+56.8	12.0′ RT.		1								
118	RTE. N	259+24.9	35.0′ LT.	1									
118	RTE. N	259+79.6	23.3′ LT.	1									
118	RTE. N	260+09.7	19.4′ RT.				1					1	14H4-110S
118	RTE. N	260+32.3	13.0′ RT.			1						1	
118	RTE. N	260+78.5	25.0′ RT.		1								
118	RTE. N	261+81.8	12.6′ RT.		1								
118	RTE. N	261+77.8	25.4′ RT.		1								
118	RTE. N	261+77.0	22.7′ RT.	1									
118	RTE. N	261+99.7	22.9′ RT.	1									
118	RTE. N	262+57.2	53.9′ LT.	1									
118	RTE. N	263+75.7	13.1′ RT.		1								
118	RTE. N	263+86.1	17.7′ RT.				1					1	14H4-109S
118	RTE. N	265+20.8	10.1 ′RT.		1								
119	RTE. N	266+32.7	15.6′ RT.			1						1	
119	RTE. N	266+45.8	18.6′ RT.				1					1	14H4-080S
119	RTE. N	266+70.4	27.2′ RT.			1						0	
119	RTE. N	266+89.4	24.9′ RT.		1								
119	RTE. N	267+30.2	25.2′ RT.	1									
119	RTE. N	267+26.7	12.9′ RT.		1								
119	RTE. N	267+35.5	25.2′ RT.		1								
119	RTE. N	267+44.0	26.7′ LT.		1								
119	RTE. N	267+53.5	21.1′ RT.		1								
119	RTE. N	267+57.8	13.3′ RT.		1								
119	RTE. N	268+66.2	26.0′ RT.		1								
119	RTE. N	268+89.0	18.9′ RT.				1					1	14H4-079S
119	RTE. N	269+74.4	25.1′ RT.	1									
119	RTE. N	271+00.1	25.0′ RT.		1								
119	RTE. N	272+29.1	13.2′ RT.			1						1	
119	RTE. N	272+45.7	24.0′ RT.	1									
119	RTE. N	272+54.0	27.2′ RT.			1						0	
119	RTE. N	272+42.9	24.9′ LT.	1									
119	RTE. N	272+90.3	17.6′ RT.		1								
119	RTE. N	272+97.2	17.2′ RT.		1								
119	RTE. N	273+40.4	25.7′ LT.	1									
119	RTE. N	274+35.2	15.0′ RT.		1								
			SUBTOTALS 3	14	19	6	9	4	0	4	0	11	
			SUBTOTALS 1	3	1	5	9	6	1	5	1	13	
			SUBTOTALS 2	1	9	0	11	0	0	23	0	7	
			PAY TOTALS	29			39		1	32	1	31	

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JAMIE F. RANA
NUMBER PE-2005001034
PROFESSIONAL ENGINEER
Jamie F. Rana
01/27/2024 2:41:20 PM
JAMIE F. RANA - CIVIL
MO-PE-2005001034
DATE PREPARED
1/25/2024

ROUTE	STATE
N	MO
DISTRICT	SHEET NO.
SL	3

COUNTY: ST. LOUIS
JOB NO.: J6S3599
CONTRACT ID.:
PROJECT NO.:
BRIDGE NO.:

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

DESCRIPTION | DATE | REV.

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

SUMMARY OF QUANTITIES
SHEET 15 OF 25

LIGHTING – PULL BOXES

PLAN SHEET NO.	ROADWAY	STATION	OFFSET	LOCATION	PULL BOX NO.	CIRCUIT	PREFORMED PULL BOX CLASS 3 (each)	PREFORMED PULL BOX CLASS 1 (each)	DRAIN TYPE				REMARKS
									I	II			
										A	B	C	
162	RTE. N	257+44.2	55.1′ LT.	BERMUDA	LT1	C1		1	1				
162	RTE. N	258+04.5	42.9′ LT.	BERMUDA	LT2	C1, 2	1	1	1				
162	RTE. N	258+60.6	56.8′ LT.	BERMUDA	LT3	C2		1	1				
162	RTE. N	259+18.4	33.3′ LT.	BERMUDA	LT4	C2		1	1				
162	RTE. N	260+20.0	28.0′ LT.	BERMUDA	LT5	C2		1	1				
162	RTE. N	N/A	N/A	BERMUDA	LT6	C2		0					NOT INCLUDED IN PLANS
162	RTE. N	260+20.1	50.7′ RT.	BERMUDA	LT7	C2		1	1				
162	RTE. N	259+30.1	23.3′ RT.	BERMUDA	LT8	C2		1	1				
133	RTE. N	227+28.5	39.3′ RT.	RRFB	LT1	C1		1	1				
133	RTE. N	229+34.3	38.7′ RT.	RRFB	LT2	C1		1	1				
133	RTE. N	231+39.3	31.4′ RT.	RRFB	LT3	C1		1	1				
133	RTE. N	233+44.6	35.9′ RT.	RRFB	LT4	C1		1	1				
133	RTE. N	234+80.4	45.4′ RT.	RRFB	LT5	C1, 2	1		1				
133	RTE. N	234+80.0	30.6′ LT.	RRFB	LT6	C2		1	1				
134	RTE. N	235+63.8	46.2′ RT.	RRFB	LT7	C3		1	1				
134	RTE. N	237+47.4	43.0′ RT.	RRFB	LT8	C3		1	1				
134	RTE. N	238+53.9	47.8′ RT.	RRFB	LT9	C3		1	1				
134	RTE. N	239+34.4	29.8′ RT.	RRFB	LT10	C3		1	1				
134	RTE. N	240+03.9	23.7′ LT.	RRFB	LT11	C3		1	1				
152	RTE. N	213+65.5	77.9′ RT.	UNIV. PLACE DR.	L1	1	1						
152	RTE. N	214+16.6	60.4′ LT.	UNIV. PLACE DR.	L2	1		1					
145B	RTE. N	208+93.5	111.5′ RT.	I-70	L1	1 & 2	1				1		NEW BRIDGE LIGHTING
145A	RTE. N	207+17.1	96.5′ RT.	I-70	L2	1 & 2		1	1				NEW BRIDGE LIGHTING
145A	RTE. N	205+88.5	95.0′ RT.	I-70	L3	1 & 2		1	1				NEW BRIDGE LIGHTING
145A	RTE. N	205+25.6	102.9′ RT.	I-70	L4	1 & 2		1	1				NEW BRIDGE LIGHTING
145B	RTE. N	208+62.1	118.0′ RT.	I-70	L5	EXIST.	1				1		EXIST. LIGHTING
145B	RTE. N	207+77.0	79.6′ RT.	I-70	L6	EXIST.		1	1				EXIST. LIGHTING
						PAY TOTALS	5	22					

ALL PULLBOXES AT THE I-70 INTERCHANGE TBD (TO BE DETERMINED) BY THE CONTRACTOR W/ APPROVAL FROM THE ENGINEER.

LIGHTING – COMBINATION BASE MOUNTED POWER SUPPLY AND LIGHTING CONTROLLER

PLAN SHEET NO.	ROADWAY	LOCATION	STATION	OFFSET	CONTROLLER	BREAKERS					COMBINATION PAD MOUNTED 120V/240V POWER SUPPLY & LIGHTING CONTROLLER EACH	REMARKS
						MAIN (amps)	CIRCUIT 1 (amps)	2 (amps)	3 (amps)	4 (amps)		
133	RTE. N	RRFB	234+98.8	45.4′ RT.	C	100	15	15	15		1	
										PAY TOTAL	1	

AMEREN MISSOURI DUSK-TO-DAWN LIGHTS (FOR INFORMATIONAL PURPOSES ONLY)

PLAN SHEET NO.	ROADWAY	LOCATION	LIGHTING ID#	STATION	OFFSET	AMEREN MISSOURI DUSK-TO-DAWN LIGHTS NEW LED LUMINAIRE (each)	REMARKS
134	RTE. N	RRFB	LT6	239+34.4	29.8′ RT	1	DUSK-TO-DAWN LIGHT ON BRACKET ARM – ATTACH TO POWER POLE
17	RTE. N	OAKMOUNT	LT100	263+61.9	23.9′ LT.	1	DUSK-TO-DAWN LIGHT ON BRACKET ARM – ATTACH TO POWER POLE
18	RTE. N	AUGUSTA	LT101	271+63.2	24.9′ RT.	1	DUSK-TO-DAWN LIGHT ON BRACKET ARM – ATTACH TO POWER POLE
					TOTAL	3	

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STATE OF MISSOURI
JAMIE F. RANA
NUMBER PE-2005001034
PROFESSIONAL ENGINEER
Jamie F. Rana
01/27/2024 2:41:46 PM
JAMIE F. RANA - CIVIL
MO-PE-2005001034

DATE PREPARED: 1/25/2024
ROUTE: N | STATE: MO
DISTRICT: SL | SHEET NO.: 3
COUNTY: ST. LOUIS
JOB NO.: J6S3599
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)

SUMMARY OF QUANTITIES
SHEET 16 OF 25

REV.

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LIGHTING EQUIPMENT SPECIAL

PLAN	ROADWAY	LOCATION	LIGHTING ID#	STATION	OFFSET	HALEX 1/2" RIGID TYPE C CONDUIT BODY w/ COVER & GASKET EACH	LED FLOOD LIGHT SELECTABLE CCT & WATTAGE KNUCKLE MT. SUPERBRIGHTLIGHTLEDS.COM PRODUCT FLCKM2-SW386O-BRK EACH	REMOVE & INSTALL DECORATIVE LIGHT LUMINAIRE EACH	LED LIGHT CEILING/BRDIGE MOUNT VERTICAL ILLUMINANCE EACH	REMARKS
SEE BR. PLANS	RTE. N	I-70 - BENT #2	N/A	-	-	14	14			FOR FLOODLIGHTS ABOVE ABUTMENT
SEE BR. PLANS	RTE. N	I-70 - BENT #3	N/A	-	-	14	14			FOR FLOODLIGHTS ABOVE ABUTMENT
SEE BR. PLANS	RTE. N	I-70 BRIDGE (WB)	N/A	-	-				8	SEE BRIDGE FOR ADDITIONAL DETAILS
SEE BR. PLANS	RTE. N	I-70 BRIDGE (EB)	N/A	-	-				9	SEE BRIDGE FOR ADDITIONAL DETAILS
TBD	RTE. N	I-70	N/A	-	-			10		LOCATIONS TBD BY ENGINEER
					PAY TOTALS	28	28	10	17	

NOTE: SEE BRIDGE PLANS FOR CONDUIT SYSTEM ON BRIDGE DETAILS

LIGHT POLES & FOUNDATIONS

PLAN	ROADWAY	LOCATION	LIGHTING ID#	STATION	OFFSET	POLE FOUNDATION 30' MOUNTING HEIGHT EACH	POLE FOUNDATION 45' MOUNTING HEIGHT EACH	30 FT. TOP MOUNT LIGHT POLE EACH	45 FT. TOP MOUNT LIGHT POLE EACH	CABLE 10 AWG 1 CONDUCTOR POLE & BRACKET LF	103W TOP MOUNTED LED-A LUMINAIRE EACH	170W TOP MOUNTED LED-B LUMINAIRE EACH	DUAL TOP MOUNT LIGHTING BRACKET EACH	REMARKS
7	RTE. N	EVANS	N/A	189+48.1	59.7' RT.					90		2	1	ADD ADDITIONAL POLE & BRACKET CABLE
152	RTE. N	UNIV. PLACE DR.	LT1	214+09.0	53.9' LT		1		1	90		1		
133	RTE. N	RRFB	LT1	221+63.7	45.34' RT.		1		1	90		1		
133	RTE. N	RRFB	LT2	222+83.6	45.93' RT.		1		1	90		1		
133	RTE. N	RRFB	LT3	233+90.0	36.29' LT.	1		1		60	1			
134	RTE. N	RRFB	LT4	235+46.4	47.28' LT.	1		1		60	1			
134	RTE. N	RRFB	LT5	239+86.8	23.10' LT.	1		1		60	1			
162	RTE. N	BERMUDA	LT1	257+43.7	60.72' LT.	1		1		60	1			
162	RTE. N	BERMUDA	LT2	257+85.7	27.17' LT.	1		1		60	1			
162	RTE. N	BERMUDA	LT3	258+74.3	49.03' LT.	1		1		60	1			
162	RTE. N	BERMUDA	LT4	260+75.3	35.42' LT.	1		1		60	1			
162	RTE. N	BERMUDA	LT5	260+20.2	56.23' RT.	1		1		60	1			
162	RTE. N	BERMUDA	LT6	259+58.0	34.54' RT.	1		1		60	1			
					PAY TOTALS	9	3	9	3	900	9	5	1	

NOTE: SEE SIGNAL QUANTITIES FOR LED-A LIGHTS ON SIGNAL POSTS & WIRING QTY.

STATE OF MISSOURI
JAMIE F. RANA
NUMBER PE-2005001034
PROFESSIONAL ENGINEER
Jamie F. Rana
01/27/2024 2:42:25 PM
JAMIE F. RANA - CIVIL
MO-PE-2005001034

DATE PREPARED
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SUMMARY OF QUANTITIES
SHEET 17 OF 25

REV.

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LIGHTING – CABLE-CONDUIT, CONDUIT, & TRENCHING

PLAN SHEET NO.	CIRCUIT	FROM	TO	CENTER TO CENTER DISTANCE (ft)	1" CABLE-CONDUIT 2 COND. & 1 BARE NEUTRAL #8 AWG (ft)	CABLE 8 AWG 1 CONDUCTOR (lf)	WIRE 8 AWG BARE NEUTRAL (lf)	TRENCHING TYPE I (lf)	TRENCHING TYPE II (lf)	CONDUIT 3" PUSHED (ft)	CONDUIT 3" TRENCHED (ft)	REMARKS
BERMUDA DR./ST. ANNS LN.												
162	C1	LT CNTRL	LT PB2	22	50			19.8	2.2			SPLICE LT PB2
162	C1	LT PB2	LT POLE 2	25	17			22.5	2.5		6	
162	C1	LT PB2	LT PB1	63	75			56.7	6.3			
162	C1	LT PB1	LT POLE 1	6	36			5.4	0.6		25	
162	C2	LT CNTRL	LT PB2	22	50			19.8	2.2			SPLICE LT PB3
162	C2	LT PB2	LT PB3	57	69			51.3	5.7	57		
162	C2	LT PB3	LT POLE 3	17	28			15.3	1.7		17	
162	C2	LT PB3	LT PB4	63	75			56.7	6.3	63		SPLICE LT PB4
162	C2	LT PB4	LT PB5	103	115			92.7	10.3	103		
162	C2	LT PB5	LT POLE 4	57	71			51.3	5.7		12	
162	C2	LT PB5	LT PB7	79	91			71.1	7.9	79		SPLICE LT PB5
162	C2	LT PB7	LT POLE 5	6	17			5.4	0.6		6	
162	C2	LT PB4	LT PB8	58	70			52.2	5.8	58		
162	C2	LT PB8	LT POLE 6	34	45			30.6	3.4		34	
RRFB								0.0	0			
133/134	C1	LT CNTRL	LT PB5	19	44			17.1	1.9			
133/134	C1	LT PB5	LT PB4	146	158			131.4	14.6			
133/134	C1	LT PB4	LT PB3	200	212			180.0	20			
133/134	C1	LT PB3	LT PB2	200	212			180.0	20			
133/134	C1	LT PB2	LT PB1	200	212			180.0	20			
133/134	C1	LT PB1	LT POLE 2	200	212			180.0	20		200	
133/134	C1	LT POLE 2	LT POLE 1	124	134			111.6	12.4		124	
133/134	C2	LT CNTRL	LT PB5	19	44			17.1	1.9			SPLICE LT PB5
133/134	C2	LT PB5	LT PB6	77	89			69.3	7.7			
133/134	C2	LT PB6	LT POLE 3	91	102			81.9	9.1		91	
133/134	C2	LT PB6	LT POLE 4	74	85			66.6	7.4		74	SPLICE LT PB6
133/134	C3	LT CNTRL	LT PB7	71	148			63.9	7.1			
133/134	C3	LT PB7	LT PB8	192	204			172.8	19.2			
133/134	C3	LT PB8	LT PB9	112	124			100.8	11.2			
133/134	C3	LT PB9	LT PB10	88	100			79.2	8.8			
133/134	C3	LT PB10	LT PB11	88	100			79.2	8.8			
133/134	C3	LT PB11	LT POLE 5	17	28			15.3	1.7		17	
I-70												
145A/B	EXIST. CIR F2, F3 & UP	CEXIST	PB L5	0								INTERCEPT EXIST. CONDUIT
145A/B	EXIST. CIR F2, F3 & UP	PB L5	PB L6	94	324					92		
145A/B	EXIST. CIR F3	PB L6	LEX1	151	162			0.0	0	97		
145A/B	EXIST. CIR F2	PB L6	LEX2	51	62			45.9	5.1			
145A/B	C1 & C2	CA	PB L1	6	40			5.4	0.6		9	
145A/B	C1 & C2	PB L1	PB L2	163	350			146.7	16.3	161		
145A/B	C1 & C2	PB L2	PB L3	129	282			116.1	12.9	127		
145A/B	C1 & C2	PB L3	PB L4	68	160			0.0	0.0		158	
BRIDGE PLANS	C1	JUNC. BOX (BRIDGE)	WBL 1 (& 2)	64		144	72	0.0	0.0			SPLICE
BRIDGE PLANS	C1	WBL 1 (&2)	WBL 2	33		74	37	0.0	0.0			
BRIDGE PLANS	C1	WBL 1 (&2)	WBL 3	30		68	34	0.0	0.0			
BRIDGE PLANS	C1	WBL 3	WBL 4	20		48	24	0.0	0.0			
BRIDGE PLANS	C1	WBL 4	WBL 5	20		48	24	0.0	0.0			
BRIDGE PLANS	C1	WBL 5	WBL 6	20		48	24	0.0	0.0			
BRIDGE PLANS	C1	WBL 6	WBL 7	50		108	54	0.0	0.0			
BRIDGE PLANS	C1	WBL 7	WBL 8	33		74	37	0.0	0.0			
BRIDGE PLANS	C2	JUNC. BOX (BRIDGE)	EBL 1 (& 2)	77		170	85	0.0	0.0			SPLICE
BRIDGE PLANS	C2	EBL 1	EBL 2	41		90	45	0.0	0.0			
BRIDGE PLANS	C2	EBL 1 (&2)	EBL 3	30		68	34	0.0	0.0			
BRIDGE PLANS	C2	EBL 3	EBL 4	20		48	24	0.0	0.0			
BRIDGE PLANS	C2	EBL 4	EBL 5	20		48	24	0.0	0.0			
BRIDGE PLANS	C2	EBL 5	EBL 6	20		48	24	0.0	0.0			
BRIDGE PLANS	C2	EBL 6	EBL 7	20		48	24	0.0	0.0			
BRIDGE PLANS	C2	EBL 7	EBL 8	30		68	34	0.0	0.0			
BRIDGE PLANS	C2	EBL 8	EBL 9	41		90	45	0.0	0.0			
UNIVERSITY PL. DR.												
152	C1	CA	PB L1	13	27			11.7	1.3		16	
152	C1	PB L1	PB L2	148	160			133.2	14.8	146		
152	C1	PB L2	L1	10	21			9.0	1.0			
CONTINGENCY												
	TBD	TBD	TBD	TBD	200							REPAIR CABLE DUE TO EXIST. DAMAGE
				SUBTOTALS	4805	1290	645	2745.0	305.0	983.0	789.0	
				5% FOR SNAKING	240	65	32	N/A	N/A			
				PAY TOTALS	5050	1360	680	2745	305	983	789	

NOTE: SEE SIGNAL QUANTITIES FOR LED-A LIGHTS ON SIGNAL POSTS & WIRING QTY.

STATE OF MISSOURI
JAMIE F. RANA
NUMBER PE-2005001034
PROFESSIONAL ENGINEER
Jamie F. Rana
01/27/2024 2:42:51 PM
JAMIE F. RANA - CIVIL
MO-PE-2005001034

DATE PREPARED
1/25/2024

ROUTE	STATE
N	MO
DISTRICT	SHEET NO.
SL	3

COUNTY
ST. LOUIS

JOB NO.
J6S3599

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

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

REV.	DESCRIPTION	DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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

SUMMARY OF QUANTITIES
SHEET 18 OF 25

ITS - PULL BOXES

PLAN SHEET NO.	ROADWAY	INTERSECTION	STATION	OFFSET	PULL BOX NO.	PREFORMED PULL BOX CLASS 2 (each)	PREFORMED ITS PULL BOX CLASS 5 (each)	INTERCEPT CONDUIT WITH PULLBOX (each)	DRAIN TYPE			
									I	II		
										A	B	C
162	RTE. N	BERMUDA	25816.2	30.6' RT.	ITS1	1			1			
162	RTE. N	BERMUDA	25803.5	32.2' LT.	ITS2		1		1			
138	RTE. N	COOL VALLEY ELEM.	17809.4	26.6' LT.	ITS1		1	1	1			
PAY TOTALS						1	2	1				

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SIGNAL CABINET BASE WRAP & CABINET SHIFT

PLAN SHEET NO.	ROADWAY	INTERSECTION	SIGNAL CABINET BASE WRAP & CABINET SHIFT EACH	DESCRIPTION
145	RTE. N	I-70 SIGNALS	1	FOR POWER FROM NEW UPS & 4" CONDUIT TO EXIST. PB1
152	RTE. N	UNIV. PLACE DR. SIGNALS	1	FOR POWER FROM NEW UPS
PAY TOTAL			2	

MoDOT ITS ASSETS RELOCATION

PAY TOTAL	500 L.F.

ITS ASSET MANAGEMENT TOOL

PAY TOTAL	1 LUMP SUM

TEMPORARY GENERATOR FOR SIGNAL POWER

PLAN SHEET NO.	ROADWAY	INTERSECTION	TEMPORARY GENERATOR FOR SIGNAL POWER EACH	DESCRIPTION
145	RTE. N	I-70 SIGNALS	1	FOR POWER FROM NEW UPS
152	RTE. N	UNIV. PLACE DR. SIGNALS	1	FOR POWER FROM NEW UPS
PAY TOTAL			2	

CABINET MODIFICATION - UNIVERSITY PLACE DR. INTERSECTION

PAY TOTAL	1 EACH

ITS - CONDUIT

PLAN SHEET NO.	ROADWAY	LOCATION	FROM	TO	CENTER TO CENTER DISTANCE (ft)	CONDUIT HDPE DRILL 2" (L.F.)	REMARKS
162	RTE. N	BERMUDA	ITS1	ITS2	64	62	
139	RTE. N	COOL VALLEY	CONT.	ITS1	19	28	
				PAY TOTAL		90	

ITS - CABLE SUMMARY

PLAN SHEET NO.	D37C SHEET	ROADWAY	INTERSECTION	24 SM FIBER OPTIC CABLE LF	CCTV CAMERA CABLE LF	REMARKS
138	142	RTE. N	COOL VALLEY ELEM.	1340		
138	N/A	RTE. N	COOL VALLEY ELEM.		50	20' FROM SIGNAL CABINET + 30' CL POLE
162	N/A	RTE. N	BERMUDA		167	137' FROM SIGNAL CABINET + 30' CL POLE
5% FOR SNAKING				**	11	
PAY TOTAL				1340	228	

** INDICATES INCLUDED IN TOTAL ABOVE

REMOVAL OF EXISTING FIBER OPTIC CABLES

PAY TOTAL	1 LUMP SUM

NOTE: REMOVAL OF CABLE(s) FROM BROTHERON (CITY OF FERGUSON SIGNAL) TO EVANS AVE. SIGNAL

ITS - NETWORK CONNECTIONS

PLAN SHEET NO.	COMM. SHEET NO.	ROADWAY	LOCATION	LOCATION DEVICE NO.	SINGLEMODE FIBER OPTIC FUSION SPLICE EACH	SINGLEMODE FIBER OPTIC PIGTAIL EACH	SINGLEMODE FIBER OPTIC JUMPER EACH	RELOCATE EXIST. COMM. EQUIPMENT EACH	INSTALL MoDOT FURNISHED IP-ADDRESSABLE POWER STRIP EACH	WALL-MOUNT FIBER INTERCONNECT CENTER EACH	CCTV CAMERA ASSEMBLY EACH	INSTALL CCTV CAMERA ASSEMBLY EACH	REMARKS
138 & 168	169	RTE. N	COOL VALLEY ELEM.	RTOONN003.4Z	4	4	4	1	1	1	1	1	
168	170	RTE. N	EVANS	RTOONS003.6Z	6	4	4			1			
162 & 168	171	RTE. N	BERMUDA/ST. ANN'S LN.	RTOONN004.9Z	4	4	4	1	1	1	1	1	
SUBTOTALS					14	12	12	2	2	3	2	2	* INSTALL COMMUNICATIONS EQUIPMENT INCLUDES
PAY TOTALS					14	12	12	2	2	3	2	2	RELOCATING DEVICE SERVER AND FIBER OPTIC MODEM

STATE OF MISSOURI
JAMIE F. RANA
NUMBER PE-2005001034
PROFESSIONAL ENGINEER
02/22/2024 1:25:38 PM
JAMIE F. RANA - CIVIL
MO-PE-2005001034

DATE PREPARED: 2/22/2024
ROUTE: N | STATE: MO
DISTRICT: SL | SHEET NO.: 3
COUNTY: ST. LOUIS
JOB NO.: J6S3599
CONTRACT ID.:
PROJECT NO.:
BRIDGE NO.:

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

DESCRIPTION | DATE | REV.

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

SUMMARY OF QUANTITIES
SHEET 19 OF 25

D37C SIGNAL QUANTITIES SUMMARY

D37C SHEET NO.	ROADWAY	INTERSECTION	PAD MOUNTED SIGNAL POWER LIGHTING CONTROLLER (1 METER) (each)	120V/240V SUPPLY & W/ UPS (2 METER) (each)	CONTROLLER ASSEMBLY HOUSING NEMA TS2 CONTROLLER (each)	ATC TRAFFIC SIGNAL CONTROLLER (each)	NETWORK CONNECTED SIGNAL MONITOR (each)	AUDIBLE PED. PUSHBUTTON & SIGNING w/ VERBAL WALK MESSAGE (each)	SL DISTRICT TRAFFIC SIGNAL DETECTION SYSTEM (each)	SIGNAL SIGNS (sf)	SIGNAL SIGN MOUNTING HARDWARE (each)
165	RTE. N	BERMUDA		1	1	1	1	4	1	61.5	7
155	RTE. N	UNIV. PLACE DR.		1				5	1	7.5	1
149	RTE. N	I-70		1				8		0.0	0
142	RTE. N	COOL VALLEY ELEM.	1		1	1	1	4	1	24.5	3
SUBTOTALS			1	3	2	2	2	21	3	93.5	11
PAY TOTALS			4		2	2	2	21	3	94	11

NOTE: ALL PED. PUSH BUTTON SIGNING INCLUDED IN COST OF APS - SEE JSPs.

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D37B SIGNAL QUANTITIES SUMMARY

D37B SHEET NO.	ROADWAY	INTERSECTION	3" TRENCH. CONDUIT (lf)	3" PUSH. CONDUIT (lf)	4" TRENCHED CONDUIT (lf)	1c-#8 (lf)	2c-#16 (lf)	5c-#16 (lf)	7c-#16 (lf)	LIGHTING 2c-#12 (lf)	LIGHTING 1c-#10 (lf)
164	RTE. N	BERMUDA	493	1261		80	1290	1300	3540		
154	RTE. N	UNIV. PLACE DR.	188	87		90	900	900	420		
148	RTE. N	I-70	414	76	11	1260	1610	1620			
141	RTE. N	COOL VALLEY ELEM.	195	242		80	890	900	1470	710	250
SUBTOTALS			1290	1666	11	1510	4690	4720	5430	710	250
PAY TOTALS			1,290	1,666	11	1,510	4,690	4,720	5,430	710	250

D37A SIGNAL QUANTITIES SUMMARY (Continued)

D37A SHEET NO.	ROADWAY	INTERSECTION	COUNTDOWN PED HEAD TYPE 1S (each)	CONV. HEAD TYPE 3T (each)	CONV. HEAD TYPE 3S (each)	CONV. HEAD TYPE 3B (each)	CONV. HEAD TYPE 4B (each)	CONV. HEAD TYPE 5B (each)	LUMINAIRE LED-A 120V COMPTIBLE (each)
163	RTE. N	BERMUDA	4		2	8			
153	RTE. N	UNIV. PLACE DR.	4				1	1	
147	RTE. N	I-70	8						
140	RTE. N	COOL VALLEY ELEM.	4	1	1	6	1		4
SUBTOTALS			20	1	3	14	2	1	4
PAY TOTALS			20	1	3	14	2	1	4

D37A SIGNAL QUANTITIES SUMMARY

D37A SHEET NO.	ROADWAY	INTERSECTION	CONC. BASE (cu. yd.)	PULL BOX CL 2 (each)	PULL BOX CL 3 (each)	PED. PUSH-BUTTON STANCHION (each)	POST SIGNAL 8 FT. (each)	POST SIGNAL 15 FT. (each)	RECTANGULAR RAPID FLASING BEACON ASSEMBLY (each)	ADVANCED WARNING FLASHER ASSEMBLY (each)	POST, TYPE C 40' ARM (each)	POST, TYPE C 55' ARM (each)	POST, TYPE CL 35' ARM (each)	POST, TYPE CL 45' ARM (each)	POST, TYPE CL 55' ARM (each)
163	RTE. N	BERMUDA	15.23	3	2	3	1	1			1	1	1		
N/A	RTE. N	RRFB							4	1					
153	RTE. N	UNIV. PLACE DR.	3.49	2		1	4								
147	RTE. N	I-70	4.81	4			8								
140	RTE. N	COOL VALLEY ELEM.	14.97	3	2		5						1	1	1
SUBTOTALS			38.50	12	4	4	18	1	4	1	1	1	2	1	1
PAY TOTALS			38.5	12	4	4	18	1	4	1	1	1	2	1	1

STATE OF MISSOURI
JAMIE F. RANA
NUMBER PE-2005001034
PROFESSIONAL ENGINEER
Jamie F. Rana
02.22.2024 1:28:31 PM
JAMIE F. RANA - CIVIL
MO-PE-2005001034

DATE PREPARED: 2/22/2024
ROUTE: N | STATE: MO
DISTRICT: SL | SHEET NO.: 3
COUNTY: ST. LOUIS
JOB NO.: J6S3599
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)

SUMMARY OF QUANTITIES
SHEET 20 OF 25

REV.

TEMPORARY EROSION CONTROL

PLAN SHEET NO.	ROADWAY	STATION	STATION	LOCATION	SILT FENCE L.F.	ROCK DITCH CHECKS L.F.	CURB INLET CHECK EA	SEDIMENT REMOVAL C.Y.	REMARKS
122	RTE. N	168+92.0	169+57.0	RT.	65			0.7	
123	RTE. N	180+69.8	–	LT.			1	1.0	
123	RTE. N	185+21.7	–	LT.			1	1.0	
124	RTE. N	193+35.9	–	LT.			1	1.0	
124	RTE. N	194+89.3	–	LT.			1	1.0	
125	RTE. N	195+57.8	–	RT.			1	1.0	
125	RTE. N	196+35.2	–	LT.			1	1.0	
125	RTE. N	197+29.0	–	LT.			1	1.0	
125	RTE. N	198+84.1	–	LT.			1	1.0	
125	RTE. N	202+17.5	–	LT.		12		1.5	
125	RTE. N	202+28.0	–	LT.			1	1.0	
126	RTE. N	206+20.4	–	RT.			1	1.0	
126	RAMP 2	1+97.3	209+69.0	RT.	201	8		3.0	2ND STATION BASED UPON RTE. N
127	RTE. N	221+81.2		LT.		16		2.0	
127	RTE. N	222+91.9	–	LT.			1	1.0	
127	RTE. N	220+25.0	221+61.5	RT.	147			1.5	
128	RTE. N	233+00.8	–	LT.			1	1.0	
128	RTE. N	233+84.7	–	RT.		8		1.0	
128	RTE. N	–	–	LT.	45			0.5	NEAR BOX CULVERT @ COOL VALLEY DR.
128	RTE. N	233+95.2	–	LT.			1	1.0	
129	RTE. N	235+57.8	–	RT.			1	1.0	
129	RTE. N	235+82.5	–	RT.		16		2.0	
129	RTE. N	236+82.5	–	LT.		8		1.0	
129	RTE. N	240+25.0	–	LT.		8		1.0	
129	RTE. N	242+91.9	–	LT.		8		1.0	
130	RTE. N	246+00.0	256+00.0	LT. & RT.			6	6.0	
131	RTE. N	256+00.0	266+00.0	LT. & RT.		10	6	7.3	
132	RTE. N	–	–				2	2.0	INSTALL CURB INLETS NEAR 115 ROUND-ABOUT
				SUBTOTALS	458	94	28	44.5	
				PAY TOTALS	458	94	28	45	

NOTE: ASSUME 1 C.Y. OF SEDIMENT REMOVAL FOR EVERY 8' OF ROCK DITCH CHECK

CONCRETE CURB

PLAN SHEET NO.	ROADWAY	INTERSECTION	STATION	STATION	LOCATION	TYPE A' CURB (6" HT. OR LESS) L.F.	REMARKS
9	RAMP 3B	RTE. N	1+99.5	3+54.6	RT.	191.1	
9	RAMP 3B	RTE. N	1+99.5	2+65.5	LT.	107.4	
10	RAMP 2B	RTE. N	2+08.7	2+96.4	LT.	105.0	INCLUDES CURB ALONG SHLDR OF SB RTE. N
11	RTE. N	S. OF UNIV. PLACE DR.	214+62.8	215+62.8	RT.	100.0	R & REPLACE 8" W/ 4" CURB
11,12	RTE.N	NORMANDY TRACE DR. TO COOL VALLEY DR.	221+99.1	226+92.2	LT.	181.6	CURB ON BACK OF SIDEWALK
12	RTE. N	S. OF COOL VALLEY DR.	229+93.9	231+29.0	LT.	139.3	CURB ON BACK OF SIDEWALK
13	RTE. N	BOTH SIDES OF WALKER LN.	232+17.0	234+56.0	LT.	73.5	CURB ON BACK OF SIDEWALK
13	RTE. N	N. SIDE OF OXEYE DR.	234+85.0	235+03.5	RT.	18.5	CURB ON BACK OF SIDEWALK
15	RTE. N	CIRCLE DR. TO MARIETTA DR.	248+29.1	251+50.2	RT.	321.8	CURB ON BACK OF SIDEWALK
16	RTE. N	BOTH SIDE OF ST. ANN'S LN.	259+35.4	260+27.7	RT.	26.5	CURB ON BACK OF SIDEWALK
					SUBTOTAL	1264.7	
					PAY TOTAL	1265	

NOTE: TYPE 'A' CURB PAID IF POURED WITH CONC. SIDEWALK/PAVEMENT OR IF DOWELED INTO EXIST. CONC. PAVEMENT
NOTE: CURB INCLUDED IN THE COST OF ANY ADA RAMP.
NOTE: CONTRACTOR MAY SUBSTITUTE TYPE 'S' CURB FOR TYPE 'A' IF SITE CONDITIONS DICTATE.

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STATE OF MISSOURI
JAMIE F. RANA
NUMBER PE-2005001034
PROFESSIONAL ENGINEER
Jamie F. Rana
01/27/2024 2:45:22 PM
JAMIE F. RANA - CIVIL
MO-PE-2005001034

DATE PREPARED
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ROUTE	STATE
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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)

SUMMARY OF QUANTITIES
SHEET 21 OF 25

REV.

SIDEWALK HAND-RAILING WITH BALUSTERS

PLAN SHEET NO.	ROADWAY	STATION	STATION	LOCATION OFFSET	SIDEWALK HAND-RAILING W/BALUSTERS (LF)	REMARKS
14	RTE. N - SB WACO TO CIRCLE DR.	227+54.78	229+09.32	LT.	100	
				PAY TOTAL	100	

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DRAINAGE

PLAN SHEET NO.	CULVERT SECTION NO.	ROADWAY	STATION	OFFSET	STRUCTURE ID#	ADJUSTMENT DEPTH FT.	7FT x 4FT DRAINAGE FLUME EACH	7FT x 8FT DRAINAGE FLUME EACH	9FT x 4FT DRAINAGE FLUME EACH	MODIFIED TYPE 'A' CURB & GUTTER L.F.	ADJUST TO GRADE (ATG) TYPE 'T' INLET TOP EACH	ADJUST TO MSD BRICK INLET EACH	REMARKS
111/211	N/A	RTE. N	193+36.5	32.8' LT.	4-27F	-			1	5			
111/211	N/A	RTE. N	193+35.9	47.0' LT.	4-12ExDI	TBD						1	
114	N/A	RTE. N	222+92.0	67.9' LT.	5-1ExDI	1.5					1		
115	N/A	RTE. N	223+70.9	40.4' LT.	5-2F	-	1			20			
115	N/A	RTE. N	224+24.7	41.3' LT.	5-3F	-	1			12			
116	N/A	RTE. N	235+85.8	29.2' RT.	6-1F	-		1		3			
116	N/A	RTE. N	241+05.6	24.8' RT.	7-1F	-		1		6			
116	N/A	RTE. N	242+97.3	25.2' RT.	7-2F	-	1						
116	N/A	RTE. N	245+26.8	24.9' RT.	8-1F	-	1			7			
117	N/A	RTE. N	246+31.4	26.5' RT.	8-2F	-	1			5			
17	N/A	RTE. N	263+48.9	263+72.7	N/A	-				23.8			
17	N/A	RTE. N	264+39.5	264+87.9	N/A	-				48.4			
18	N/A	RTE. N	272+23.6	272+81.8	N/A	-				58.2			
						PAY TOTALS	5	2	1	189	1	1	

DRAINAGE

PLAN SHEET NO.	CULVERT SECTION NO.	ROADWAY	STATION	OFFSET	STRUCTURE ID#	ACTUAL DEPTH FT.	PRECAST CONCRETE DROP INLET 2' x 2' L.F.	PRECAST CONCRETE DROP INLET 4' x 2' L.F.	PRECAST CONCRETE DROP INLET 3' x 2'-6" L.F.	CURVED VANE GRATE & FRAME 2' x 2' EACH	CURVED VANE GRATE & FRAME 4' x 2' EACH	PRECAST CONCRETE MANHOLE 48" L.F.	PRECAST CONCRETE MANHOLE 60" L.F.	MSD PRECAST CONC. MH 60" L.F.	MANHOLE FRAME & COVER TYPE 1A EACH	MANHOLE FRAME & COVER TYPE 3 EACH	MANHOLE FRAME & COVER TYPE 4 EACH	CLASS 3 EXCAVATION C.Y.	PRECAST CONC. ALT. MANHOLE SECTION L.F.	REMARKS
213	214	RTE. N	261+22.5	21.7' RT.	1-1A/1-2A	2.5	6			2								5.3		
213	214	RTE. N	260+65.9	21.7' RT.	1-3T	3.25			8							1		5.8		CONSTRUCT 2 - 2.5'x3' OR 1 5'x3' TYPE 'T' INLET
213	214	RTE. N	260+04.9	44.6' RT.	1-4MH	2.57							3		1			12.8		CONSTRUCT TO ACCEPT ELLIPTICAL PIPE
213	214/215	RTE. N	260+41.0	111.7' RT.	1-5MH	2.93								3				8		CONSTRUCT TO ACCEPT ELLIPTICAL PIPE
212	216	RTE. N	202+46.4	48.7' LT.	2-1A	3		3			1							7.8		
212	216	RTE. N	202+28.0	46.8' LT.	2-2MH	3.56						4			1			11.1		
212	216	RAMP 3B	2+71.9	20' RT.	2-3A	3.28		4			1							9.5		
212	216	RTE. N	198+61.7	59.9' LT.	3-1ExMH	2											1	2	2	
211	217	RTE. N	190+31.5	20.7' LT.	4-7A	2.86	3			1								3.6		
211	217	RTE. N	190+81.4	20.5' LT.	4-9A	2.86	3			1								3.6		
211	217	RTE. N	191+55.9	24.4' LT.	4-10A	3.02	3			1								3.8		
211	217	RTE. N	192+31.6	29.9' LT.	4-11T	4			4							1		7.8		
211	217/218	RTE. N	193+01.5	29.6' LT.	4-24MH	4.48							5		1			25.3		
						SUBTOTALS	15	7	12	5	2	4	8	3	3	2	1	106.4	2	
						SUBTOTALS - PIPES	0	0	0	0	0	0	0	0	0	0	0	206.7	0	
						PAY TOTALS	15	7	12	5	2	4	8	3	3	2	1	313	2	

NOTE: IF ALT. INLET (3x5) INLET IS USED FOR 1-3T, PAY DEPTH WILL STILL BE 8' TO ACCOUNT FOR LARGER STRUCTURE FURNISHED BY CONTRACTOR - NO CHANGE ORDER TO ACCOUNT FOR LARGER STRUCTURE THOUGH.
NOTE: FOR MSD MANHOLE STRUCTURES, CONTRACTOR SHALL USE THE APPROPIATE MSD STANDARD FRAME AND COVER.
NOTE: FOR MANHOLE FRAMES AND COVERS IN PAVEMENT (TYPE 1A AND MSD STANDARD), CONTRACTOR SHALL USE LOCKING LIDS.

STATE OF MISSOURI
JAMIE F. RANA
NUMBER PE-2005001034
PROFESSIONAL ENGINEER
Jami F. Rana
02/22/2024 1:27:46 PM
JAMIE F. RANA - CIVIL
MO-PE-2005001034

DATE PREPARED: 2/22/2024

ROUTE	STATE
N	MO
DISTRICT	SHEET NO.
SL	3

COUNTY: ST. LOUIS
JOB NO.: J6S3599
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)

SUMMARY OF QUANTITIES
SHEET 22 OF 25

REV.

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.

EMBANKMENT IN PLACE

PLAN SHEET NO.	ROADWAY	STA.	STA.	LOCATION	AREA SF	DEPTH IN.	EMBANKMENT IN PLACE C.Y.	REMARKS
12	RTE. N	225+65.8	227+23.0	LT.	731.7	12	27.1	
12	RTE. N	227+69.8	229+15.6	LT.	591.5	12	21.9	
12	RTE. N	229+71.9	231+51.4	LT.	834.1	12	30.9	
12 & 13	RTE. N	231+89.0	233+06.9	LT.	377.1	12	14.0	
13	RTE. N	234+76.0	235+04.8	LT.	154.9	10	4.8	
13 & 14	RTE. N	238+76.3	242+94.9	RT.	2495.45	12	92.4	
14	RTE. N	243+83.1	244+28.6	RT.	269.6	12	10.0	
14 & 15	RTE. N	245+31.5	247+13.8	RT.	933.6	12	34.6	
16	RTE. N	ST. ANN'S LN.	260+73.3	RT.	429.2	12	15.9	BUMP-OUT ST. ANN'S LANE
17	RTE. N	263+47.9	263+72.7	RT.	93.8	12	3.5	BUMP-OUT OAKMOUNT
17	RTE. N	OAKMOUNT	264+87.9	RT.	289.5	12	10.7	BUMP-OUT OAKMOUNT
18	RTE. N	271+89.8	272+70.8	RT.	303.9	12	11.3	BUMP-OUT AUGUSTA
						SUBTOTAL	277.1	
						PAY TOTAL	278	

NOTE: ASSUME 10" PAVEMENT TO BE REMOVED PRIOR & THEN FILLED IN TO FINAL SIDEWALK GRADE.
NOTE: MOST DEPTHS CALCULATED BY 10" + 6" (CURB) - 4" BASE = 12"
NOTE: FOR BUMP-OUTS, ONLY AREA OUTSIDE SIDEWALK/RAMPS AS PART OF MEDIAN INCLUDED IN AREA FOR EARTHWORK.

TEMPORARY STRIPING

PLAN SHEET NO.	ROADWAY	STA.	STA.	LOCATION	STAGE	WATERBORNE PVMT. MARKING PAINT, TYPE 'P' BEADS 4" S.W. L.F.	4" S.Y. L.F.	PAVEMENT MARKING REMOVALS L.F.	REMARKS
53	RTE. N	228+57.6	231+03.2	SBL	1 - NB CLOSED	0	245.6	245.6	
53 & 54	RTE. N	231+03.2	235+83.4	SBL	1 - NB CLOSED	0	480.2	0	
53 & 54	RTE. N	231+49.1	235+83.4	NBL	1 - NB CLOSED	434.3	434.3	868.6	
54 to 57	RTE. N	235+83.4	272+65.4	SBL	1 - NB CLOSED	3682	7364	7364	INSTALL D.S.Y & REMOVE EXIST. D.S.Y. BEFORE INSTALLING NB S.W.
57	RTE. N	272+65.4	274+64.2	SBL	1 - NB CLOSED	0	397.6	397.6	INSTALL D.S.Y & REMOVE EXIST. D.S.Y. BEFORE INSTALLING NB S.W.
57	RTE. N	272+65.4	274+81.4	NBL	1 - NB CLOSED	216.0	0	0	
58	RTE. N	228+57.6	231+03.2	SBL	2 - SB CLOSED	245.6	0	245.6	
58 & 59	RTE. N	231+03.2	235+83.4	SBL	2 - SB CLOSED	480.2	480.2	480.2	
58 & 59	RTE. N	231+40.9	235+83.4	NBL	2 - SB CLOSED	0	442.5	442.5	
59 to 62	RTE. N	235+83.4	272+60.4	NBL	2 - SB CLOSED	3677.0	7354	7354	INSTALL D.S.Y & REMOVE EXIST. D.S.Y. BEFORE INSTALLING SB S.W.
62	RTE. N	272+60.4	273+86.1	SBL	2 - SB CLOSED	0	125.7	0.0	
62	RTE. N	272+60.4	274+59.7	NBL	2 - SB CLOSED	0	199.3	398.6	INSTALL S.Y. & REMOVE EXIST. D.S.Y. BEFORE INSTALLING S.Y.
					SUBTOTALS	8735.1	17523.4	17796.7	
					PAY TOTALS	**	**	**	

NOTE: ** INDICATES SEE PERMANENT PAVEMENT MARKING FOR FINAL PAY TOTALS.

PIPES

PLAN SHEET NO.	CULVERT SECTION NO.	ROADWAY	FROM ID#	TO ID#	LOCATION	12" GROUP 'A' PIPE L.F.	12" CLASS V RCP L.F.	15" CLASS V RCP L.F.	15" GROUP 'A' PIPE L.F.	18" GROUP 'A' PIPE L.F.	24" CLASS V RCP L.F.	14" x 23" CLASS IV REINFORCED CONCRETE ELLIPTICAL PIPE L.F.	CLASS 3 EXCAVATION C.Y.	CLASS B CONCRETE (MISC.) C.Y.	REMARKS
213	214	RTE. N	1-1A/1-2A	1-3T	RT.		52						14.6	4.22	
213	214	RTE. N	1-3T	1-4MH	RT.		61						24.1	1.08	
213	214	RTE. N	1-4MH	1-5MH	RT.							72	28.8	8.15	
212	216	RTE. N	2-1A	2-2MH	LT.	17							5.1		
211	217	RTE. N	4-7A	4-9A	LT.				48				17.2		
211	217	RTE. N	4-9A	4-10A	LT.			73					29.1	6.84	
211	217	RTE. N	4-10A	4-11T	LT.					75			40.5		
211	217/218	RTE. N	4-11T	4-24MH	LT.						67		47.3	6.81	
					SUB TOTALS	17	113	73	48	75	67	72	206.7	27.1	
					PAY TOTALS	17	113	73	48	75	67	72	****	27.1	

NOTE: **** INDICATES SEE DRAINAGE TAB FOR PAY TOTAL
NOTE: CLASS 'B' CONCRETE USED FOR ENCASING PIPE

STATE OF MISSOURI
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DATE PREPARED
2/22/2024

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CONTRACT ID.

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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)

SUMMARY OF QUANTITIES
SHEET 23 OF 25

REV.

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

EFFECTIVE: 04-01-2024

SIGN	SIZE IN.	AREA SQ.FT.	QTY EACH	TOTAL AREA SQ.FT.	QTY RELOC EACH	TOTAL RELOC SQ.FT.	SIGN NUM.	DESCRIPTION
WARNING SIGNS								
W01-1L	48X48	16.00						TURN (SYMBOL LEFT ARROW)
W01-1R	48X48	16.00						TURN (SYMBOL RIGHT ARROW)
W01-2L	48X48	16.00						CURVE (SYMBOL LEFT ARROW)
W01-2R	48X48	16.00						CURVE (SYMBOL RIGHT ARROW)
W01-3L	48X48	16.00						REVERSE TURN (SYMBOL LEFT ARROW)
W01-3R	48X48	16.00						REVERSE TURN (SYMBOL RIGHT ARROW)
W01-4L	48X48	16.00	1	16			15	REVERSE CURVE (SYMBOL LEFT ARROW)
W01-4R	48X48	16.00	1	16			15	REVERSE CURVE (SYMBOL RIGHT ARROW)
W01-4bL	48X48	16.00						DOUBLE ARROW REVERSE CURVE (SYMBOL LT ARROWS)
W01-4bR	48X48	16.00						DOUBLE ARROW REVERSE CURVE (SYMBOL RT ARROWS)
W01-4cL	48X48	16.00						TRIPLE ARROW REVERSE CURVE (SYMBOL LT ARROWS)
W01-4cR	48X48	16.00						TRIPLE ARROW REVERSE CURVE (SYMBOL RT ARROWS)
W01-6	60X30	12.50						HORIZONTAL ARROW (SYMBOL)
W01-6a	72X36	18.00						HORIZ. ARROW (SYMBOL ON PERMANENT BARRICADE)
W01-7	60X30	12.50						DOUBLE HEAD HORIZONTAL ARROW (SYMBOL)
W01-7a	72X36	18.00						DOUBLE HEAD HORIZ. ARROW (SYMBOL ON PERM. BARR.)
W01-8	18X24	3.00						CHEVRON (SYMBOL)
W01-8a	30X36	7.50						CHEVRON (SYMBOL FOR DIVIDED HIGHWAYS)
W03-1	48X48	16.00						STOP AHEAD (SYMBOL)
W03-2	48X48	16.00						YIELD AHEAD (SYMBOL)
W03-3	48X48	16.00						SIGNAL AHEAD (SYMBOL)
W03-4	48X48	16.00						BE PREPARED TO STOP
W03-5	48X48	16.00						SPEED LIMIT AHEAD
W04-1L	48X48	16.00						MERGE (SYMBOL FROM LEFT)
W04-1R	48X48	16.00						MERGE (SYMBOL FROM RIGHT)
W04-1aL	48X48	16.00	2	32			6a	MERGE (ARROW SYMBOL)
W04-1aR	48X48	16.00	2	32			6a	MERGE (ARROW SYMBOL)
W05-1	48X48	16.00	2	32			43	ROAD/BRIDGE/RAMP NARROWS
W05-3	48X48	16.00						ONE LANE BRIDGE
W05-5	48X48	16.00						NARROW LANES
W06-1	48X48	16.00						DIVIDED HIGHWAY (SYMBOL)
W06-2	48X48	16.00						DIVIDED HIGHWAY END (SYMBOL)
W06-3	48X48	16.00						TWO WAY TRAFFIC (SYMBOL)
W07-3a	30X24	5.00						NEXT XX MILES (PLAQUE)
W08-1	48X48	16.00	2	32			62	BUMP
W08-2	48X48	16.00	2	32			61	DIP
W08-3	48X48	16.00						PAVEMENT ENDS
W08-4	48X48	16.00						SOFT SHOULDER
W08-5	48X48	16.00						SLIPPERY WHEN WET (SYMBOL)
W08-6	48X48	16.00						TRUCK CROSSING (WITH FLAGS)
W08-6c	48X48	16.00	2	32			9	TRUCK ENTRANCE
W08-7	36X36	9.00						LOOSE GRAVEL
W08-7a	36X36	9.00						FRESH OIL/LOOSE GRAVEL
W08-9	48X48	16.00						LOW SHOULDER
W08-11	48X48	16.00	2	32				UNEVEN LANES
W08-12	48X48	16.00						NO CENTER LINE
W08-15	48X48	16.00						GROOVED PAVEMENT
W08-15P	30X24	5.00						MOTORCYCLE (PLAQUE)
W08-17	48X48	16.00	2	32				SHOULDER DROP-OFF (SYMBOL)
W08-17P	30X24	5.00	2	10				SHOULDER DROP-OFF (PLAQUE)
W10-1	42RND.	9.62						RAILROAD CROSSING
W012-1	24X24	4.00	3	12				DOUBLE DOWN ARROW (SYMBOL)
W012-2	48X48	16.00						LOW CLEARANCE (SYMBOL)
W012-2X	24X18	3.00						LOW CLEARANCE (PLAQUE)
W012-2a	84X24	14.00						OVERHEAD LOW CLEARANCE (FEET AND INCHES)
W012-4	120X60	50.00						LOW CLEARANCE XX FT XX IN XX MILES AHEAD
W012-5	120X60	50.00						WIDTH RESTRICTION XX FT XX IN XX MILES AHEAD
W013-1	30X30	6.25	2	12.5			44	ADVISORY SPEED (PLAQUE)
W016-2	30X24	5.00						XXX FEET (PLAQUE)
W016-3	30X24	5.00						X MILE (PLAQUE)
W020-1	48X48	16.00	32	512			2	ROAD/BRIDGE/RAMP WORK AHEAD
W020-2	48X48	16.00						DETOUR AHEAD
W020-3	48X48	16.00						ROAD CLOSED AHEAD
W020-4	48X48	16.00						ONE LANE ROAD AHEAD
W020-5	48X48	16.00	6	96			5	RIGHT/CENTER/LEFT LANE CLOSED AHEAD
W020-5a	48X48	16.00						2 RIGHT/CENTER/LEFT LANES CLOSED AHEAD
W020-6a	48X48	16.00	6	96			6	RIGHT/CENTER/LEFT LANE CLOSED
W020-7a	48X48	16.00						FLAGGER (SYMBOL, WITH FLAGS)
W021-2	36X36	9.00						FRESH OIL
W021-5	48X48	16.00	4	64			21	SHOULDER WORK AHEAD
W022-1	48X48	16.00						BLASTING ZONE AHEAD
W022-2	42X36	10.50						TURN OFF 2-WAY RADIO AND PHONE
W022-3	42X36	10.50						END BLASTING ZONE
G022-1	21X15	2.19	2	4.4				WET PAINT (ARROW PIVOTS)

NOTE: SIGN & DEVICE LOCATION WILL BE FIELD VERIFIED AND APPROVED BY THE ENGINEER.

SIGN	SIZE IN.	AREA SQ.FT.	QTY EACH	TOTAL AREA SQ.FT.	QTY RELOC EACH	TOTAL RELOC SQ.FT.	SIGN NUM.	DESCRIPTION
GUIDE SIGNS								
E05-1	36X48	12.00	2	32			49	GORE EXIT
E05-2	48X36	12.00						EXIT OPEN
E05-2a	48X36	12.00						EXIT CLOSED
G020-1	60X24	10.00	2	20			1	ROAD WORK NEXT 2 MILES
G020-2	48X24	8.00	2	16			26	END ROAD WORK
G020-4	36X18	4.50						PILOT CAR FOLLOW ME
G020-4a	42X30	8.75						PILOT CAR IN USE WAIT & FOLLOW
G020-4a	18X12	1.50						PILOT CAR IN USE WAIT & FOLLOW
G020-5aP	36X24	6.00	4	24			54	WORK ZONE (PLAQUE)
M04-8a	24X18	3.00	2	6			52	END DETOUR
M04-9L	48X36	12.00						DETOUR (LEFT ARROW)
M04-9R	48X36	12.00						DETOUR (RIGHT ARROW)
M04-9P	48X12	4.00						STREET NAME (PLAQUE)
M04-10L	48X18	6.00						DETOUR (ARROW LEFT)
M04-10R	48X18	6.00						DETOUR (ARROW RIGHT)
REGULATORY SIGNS								
R1-1	48X48	13.25	8	106			41	STOP
R1-2	48TRI.	6.93	4	27.7			13	YIELD
R1-2a	36X36	9.00						TO ONCOMING TRAFFIC (PLAQUE)
R1-3P	30X12	2.50						ALL WAY (PLAQUE)
R2-1	36X48	12.00	8	96			4/25	SPEED LIMIT XX
R3-1	48X48	16.00	2	32				NO RIGHT TURN (SYMBOL)
R3-2	48X48	16.00	2	32				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	2	12.5			45	LEFT LANE MUST TURN LEFT
R3-7R	30X30	6.25	2	12.5			7	RIGHT LANE MUST TURN RIGHT
R4-1	36X48	12.00						DO NOT PASS
R4-2	36X48	12.00						PASS WITH CARE
R4-8a	36X48	12.00						KEEP LEFT (HORIZONTAL ARROW)
R4-7a	36X48	12.00	2	24			42	KEEP RIGHT (HORIZONTAL ARROW)
R5-1	30X30	6.25	2	12.5				DO NOT ENTER
R5-1a	36X24	6.00	2	12				WRONG WAY
R6-1L	54X18	6.75	2	13.5				ONE WAY ARROW (LEFT)
R6-1R	54X18	6.75	2	13.5				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	16	32				SIDEWALK CLOSED
R9-11L	24X18	3.00	8	24				SIDEWALK CLOSED AHEAD, (ARROW LEFT) CROSS HERE
R9-11R	24X18	3.00	8	24				SIDEWALK CLOSED AHEAD, (ARROW RIGHT) CROSS HERE
R10-6	24X36	6.00						STOP HERE ON RED (45° ARROW)
R11-2	48X30	10.00	6	60			29	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						FINE SIGN
CONST-3X	56X12	4.67						SPEEDING/PASSING (PLATE)
MISCELLANEOUS SIGNS								
CONST-5	48X36	12.00	4	48			55	POINT OF PRESENCE
CONST-5	96X48	32.00						POINT OF PRESENCE
CONST-7	48X24	8.00	4	32			56	RATE OUR WORK ZONE
CONST-7	72X36	18.00						RATE OUR WORK ZONE
CONST-8	48X36	12.00	4	48			57	WORK ZONE NO PHONE ZONE
R7-1	18X24	3.00	4	12				NO PARKING ANY TIME
W08-24	48X48	16.00	2	32			60	

	TOTAL
616-10.05 CONSTRUCTION SIGNS	1899
616-10.10 RELOCATED SIGNS	*

* NOTE: NO DIRECT PAYMENT SHALL BE MADE TO RELOCATE OR COVER/UNCOVER EXISTING OR TCP SIGNS OR TO RELOCATE OTHER TCP DEVICES.

NOTE: MANY OF THE REGULATORY SIGNS ADDED IN CASE FINAL SIGN PLACEMENT TAKES PLACE AFTER REMOVAL OF EXISTING.

ITEM NUMBER	TOTAL QTY	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	+++	TRUCK MOUNTED ATTENUATOR (TMA)
6161008	8	ADVANCED WARNING RAIL SYSTEM
6161012		BUOYS (BOATS KEEP OUT)
6161013		BUOYS (NO WAKE)
6161014		SPECIAL SIGN ASSEMBLY (BOATS KEEP OUT)
6161025	600	CHANNELIZER (TRIM LINE)
6161030	30	TYPE III MOVEABLE BARRICADE
6161033	56	DIRECTION INDICATOR BARRICADE
6161040	6	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 W/O 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	775**	TEMPORARY TRAFFIC BARRIER CONTRACTOR FURNISHED/RETAINED
6173602B		TEMPORARY TRAFFIC BARRIER CONTRACTOR FURNISHED/COMMISSION RETAINED
6174000A	4**	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	1**	TEMPORARY TRAFFIC SIGNALS
9029401		TEMPORARY TRAFFIC SIGNALS AND LIGHTING
6169902	8**	ADA COMPLIANT MOVABLE BARRICADE

NOTE: CMS LOCATIONS TO BE APPROVED BY THE ENGINEER.

DISCLAIMER
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** INDICATES ITEM NOT INCLUDED IN TEMP. TRAFFIC CONROL LUMP SUM BID ITEM.

NOTE: EXIST. SIGNS SHALL NOT BE REMOVED UNTIL NEW SIGNS HAVE BEEN INSTALLED UNLESS APPROVED BY THE ENGINEER.

NOTE: QUANTITIES PROVIDED ARE SETUP USING BOTH GENERIC AND CUSTOM TRAFFIC CONTROL. IF THE CONTRACTOR CHOOSES TO SETUP TRAFFIC CONTROL DIFFERENTLY, THEN THOSE ADDITIONAL QUANTITIES SHALL BE PAID AT THE EXPENSE OF THE CONTRACTOR.

+++ INDICATES TMAs WILL BE REQUIRED FOR MOBILE OPERATIONS ON THIS JOB BUT AT NO DIRECT PAY. THE CONTRACTOR MAY USE TMAs AT STATIONARY LOCATIONS OF HIS OR HER OWN CHOOSING BUT NO PAYMENT SHALL BE MADE FOR THESE TMAs.

NOTE: ALL TRAFFIC CONTROL ITEMS ARE INCLUDED IN PAY ITEM 616-99.01, LUMP SUM TEMPORARY TRAFFIC CONTROL, UNLESS NOTED OTHERWISE IN THE PLANS. THESE QUANTITES ARE ONLY AN ESTIMATE AND ARE SUBJECT TO CHANGE BASED UPON FIELD CONDITIONS.

STATE OF MISSOURI
JAMIE F. RANA
NUMBER PE-2005001034
PROFESSIONAL ENGINEER
Jamie F. Rana
02/22/2024 1:34:05 PM
JAMIE F. RANA - CIVIL
MO-PE-2005001034

DATE PREPARED
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ROUTE	STATE
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COUNTY
ST. LOUIS

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MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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QUANTITY SHEETS
TRAFFIC CONTROL
SHEET 24 OF 25

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.

SIGN #	SIZE (INCHES)	AREA (SF)	QTY.	TOTAL AREA (SF)	QTY. RELOC. (SF)	TOTAL RELOC. AREA (SF)	DESCRIPTION
70A	36x78	19.5	6	117			DETOUR, SOUTH, N, STRAIGHT
70B	36x78	19.5	0	0			DETOUR, SOUTH, N, LEFT - 45 DEG. AHEAD
70C	36x78	19.5	0	0			DETOUR, SOUTH, N, RIGHT - 45 DEG. AHEAD
70D	36x78	19.5	2	39			DETOUR, SOUTH, N, RIGHT
70E	36x78	19.5	0	0			DETOUR, SOUTH, N, LEFT
70F	36x78	19.5	1	19.5			DETOUR, SOUTH, N, LEFT - 45 DEG.
70G	36x78	19.5	2	39			DETOUR, SOUTH, N, RIGHT - 45 DEG.
70H	36x78	19.5	1	19.5			DETOUR, SOUTH, N, LEFT - 90 DEG. AHEAD
70I	36x78	19.5	0	0			DETOUR, SOUTH, N, RIGHT - 90 DEG. AHEAD
71A	36x78	19.5	3	58.5			DETOUR, NORTH, N, STRAIGHT
71B	36x78	19.5	0	0			DETOUR, NORTH, N, LEFT - 45 DEG. AHEAD
71C	36x78	19.5	1	19.5			DETOUR, NORTH, N, RIGHT - 45 DEG. AHEAD
71D	36x78	19.5	1	19.5			DETOUR, NORTH, N, RIGHT
71E	36x78	19.5	1	19.5			DETOUR, NORTH, N, LEFT
71F	36x78	19.5	0	0			DETOUR, NORTH, N, LEFT - 45 DEG.
71G	36x78	19.5	1	19.5			DETOUR, NORTH, N, RIGHT - 45 DEG.
71H	36x78	19.5	1	19.5			DETOUR, NORTH, N, LEFT - 90 DEG. AHEAD
71I	36x78	19.5	1	19.5			DETOUR, NORTH, N, RIGHT - 90 DEG. AHEAD
80	96x84	56	2	112			SB N CLOSED AT EXIT 240 - DETOUR USE EXIT 241B
81	96x84	56	2	112			NB N CLOSED AT EXIT 240 - DETOUR USE EXIT 241B
82	42x48	14	4	56			ST. ANNE'S LANE CLOSED AT RTE. N - USE ALT. ROUTE
N/A	54x12	4.5	1	4.5			CLOSED PLAQUE

616-10.05 (SHEET 2 OF 2) CONSTRUCTION SIGNS SUBTOTAL	694
616-10.05 (SHEET 1 OF 2) CONSTRUCTION SIGNS SUBTOTAL	1899
616-10.05 CONSTRUCTION SIGNS PAY TOTAL	2593
616-10.10 RELOCATED SIGNS TOTAL	0

NOTE: ALL SIGNS INCLUDED WITHIN THE LUMP SUM TEMPORARY TRAFFIC CONTROL PAY ITEM (1 LUMP SUM)

TEMPORARY TRAFFIC BARRIER - FOR INFORMATIONAL PURPOSES - SEE QTY. SHEET 24 of 25 FOR PAY TOTALS

PLAN SHEET NO.	ROADWAY	STA.	STA.	LOCATION	TEMPORARY TRAFFIC BARRIER CONTRACTOR FURNISHED/RETAINED L.F.	TEMPORARY TRAFFIC BARRIER HEIGHT TRANSITION EA	REMARKS
211	RTE. N	189+80.0	191+05.0	LT.	125	1	CONSTRUCT PIPE 4-7A TO 4-9A & 1/2 OF PIPE TO 4-10A
211	RTE. N	191+05.0	193+55.0	LT.	250	1	CONSTRUCT 1/2 OF PIPE 4-9A TO 4-10A AND THEN TO 4-24MH
112	RTE. N	208+07.0	209+81.0	RT.	200	1	RECONSTRUCT RAMP 2B
113	RTE. N	201+08.0	202+67.0	LT.	200	1	RECONSTRUCT RAMP 3B
				TOTALS	775	4	

STATE OF MISSOURI
JAMIE F. RANA
NUMBER PE-2005001034
PROFESSIONAL ENGINEER
Jamie F. Rana
01/27/2024 2:36:55 PM
JAMIE F. RANA - CIVIL
MO-PE-2005001034

DATE PREPARED
1/25/2024

ROUTE	STATE
N	MO
DISTRICT	SHEET NO.
SL	3

COUNTY
ST. LOUIS

JOB NO.
J6S3599

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

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

REV.	DESCRIPTION	DATE

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

SUMMARY OF QUANTITIES
SHEET 25 OF 25
TCP QUANTITIES

UTILITY NOTE:
OVERHEAD UTILITY LINES ARE PRESENT THROUGHOUT THE CORRIDOR, BUT NOT SHOWN ON THE PLANS.

NOTE:
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.

2. BEARINGS SHOWN ARE MODIFIED STATE PLANE BEARINGS, EASTERN ZONE.

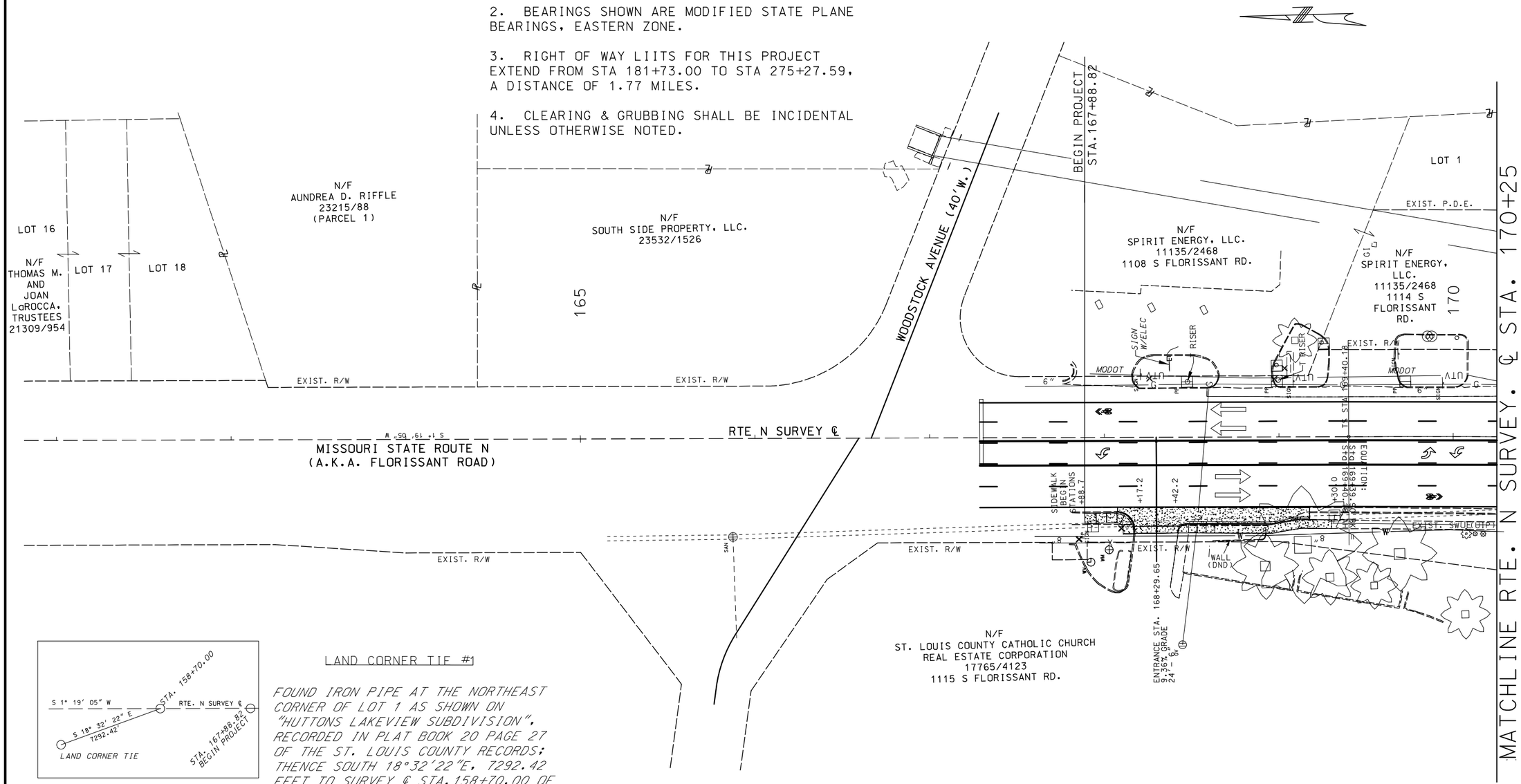
3. RIGHT OF WAY LIITS FOR THIS PROJECT EXTEND FROM STA 181+73.00 TO STA 275+27.59, A DISTANCE OF 1.77 MILES.

4. CLEARING & GRUBBING SHALL BE INCIDENTAL UNLESS OTHERWISE NOTED.

5. SIDEWALK IS 5' WIDE UNLESS OTHERWISE NOTED.

6. CURB AND GUTTER IS 3' WIDE UNLESS OTHERWISE NOTED.

NOTE: NO ACQUISITIONS TO BE BE MADE ON THIS SHEET



LAND CORNER TIE #1

FOUND IRON PIPE AT THE NORTHEAST CORNER OF LOT 1 AS SHOWN ON "HUTTONS LAKEVIEW SUBDIVISION", RECORDED IN PLAT BOOK 20 PAGE 27 OF THE ST. LOUIS COUNTY RECORDS; THENCE SOUTH 18°32'22"E, 7292.42 FEET TO SURVEY ℄ STA.158+70.00 OF MISSOURI STATE ROUTE N.

LEGEND

- NEW ENTRANCE
- NEW SOD MEDIAN
- SIDEWALK CONCRETE
- ADA TRUNCATED DOMES
- EXIST. ROW (NORMAL ACCESS)
- PERM. SIDEWALK EASEMENT (PSE)
- TEMP. CONSTRUCTION EASEMENT (TCE)
- PERM. DRAINAGE EASEMENT (PDE)

NOTE: SEE STRIPING PLANS FOR DETAILS

SCALE

0 30 60 90

DISCLAIMER
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STATE OF MISSOURI
JAMIE F. RANA
NUMBER PE-2005001034
PROFESSIONAL ENGINEER
Jamie F. Rana
01/28/2024 10:50:22 AM
JAMIE F. RANA - CIVIL
MO-PE-2005001034

DATE PREPARED
1/25/2024

ROUTE	STATE
N	MO
DISTRICT	SHEET NO.
SL	4

COUNTY
ST. LOUIS

JOB NO.
J6S3599

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION	DATE

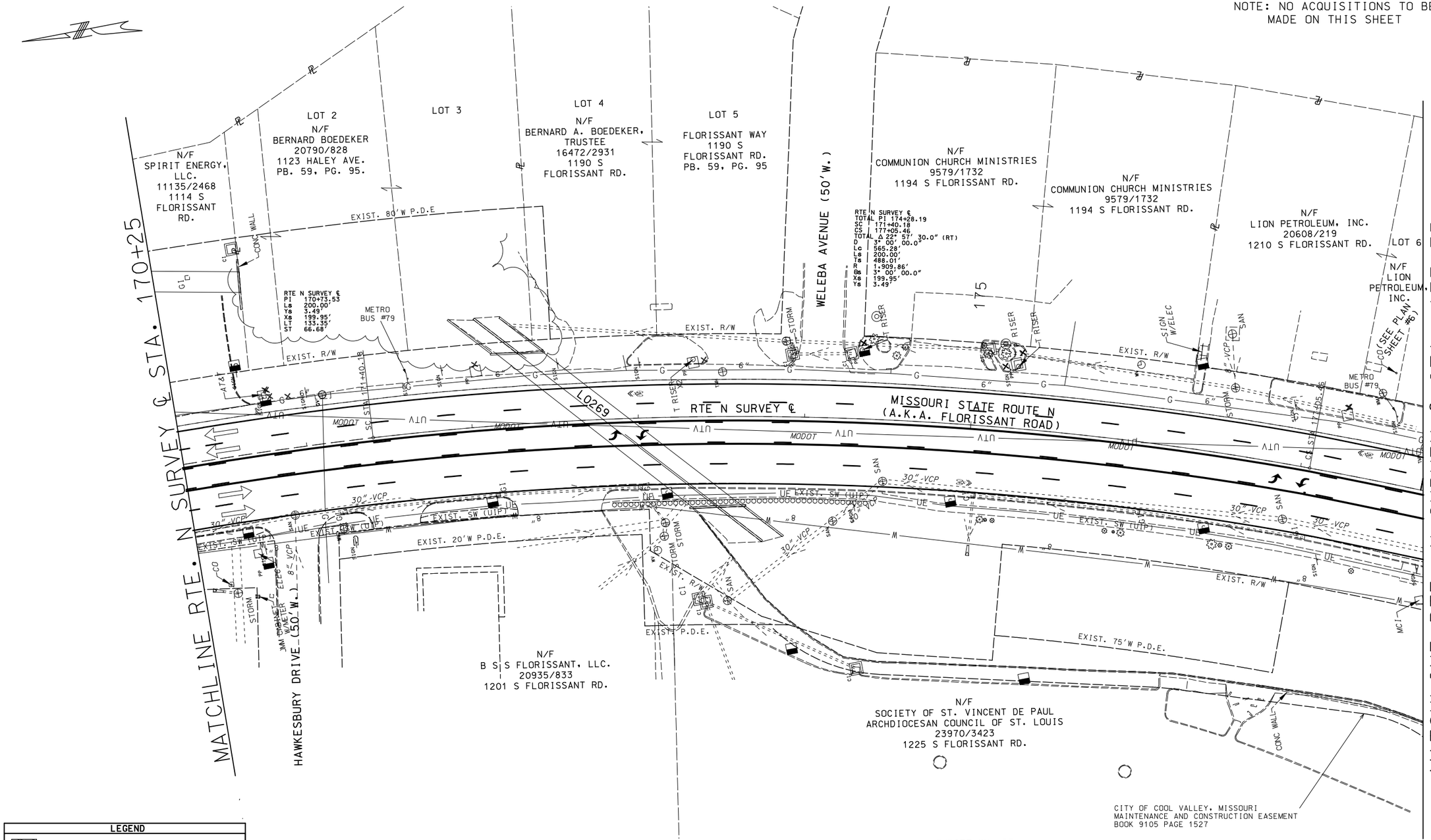
IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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

CONSTRUCTION PLANS

NOTE: NO ACQUISITIONS TO BE MADE ON THIS SHEET



LEGEND

- NEW ENTRANCE
- NEW SOD MEDIAN
- SIDEWALK CONCRETE
- ADA TRUNCATED DOMES
- EXIST. ROW (NORMAL ACCESS)
- PERM. SIDEWALK EASEMENT (PSE)
- TEMP. CONSTRUCTION EASEMENT (TCE)
- PERM. DRAINAGE EASEMENT (PDE)

NOTE: SEE STRIPING PLANS FOR DETAILS

SCALE

0 30 60 90

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NOTE: BOX CULVERT L0269 IMPROVEMENTS ON PROJECT J6I3573

STATE OF MISSOURI
JAMIE F. RANA
NUMBER PE-2005001034
PROFESSIONAL ENGINEER
Jamie F. Rana
01/28/2024 10:50:48 AM
JAMIE F. RANA - CIVIL
MO-PE-2005001034

DATE PREPARED
1/25/2024

ROUTE	STATE
N	MO
DISTRICT	SHEET NO.
SL	5

COUNTY
ST. LOUIS

JOB NO.
J6S3599

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

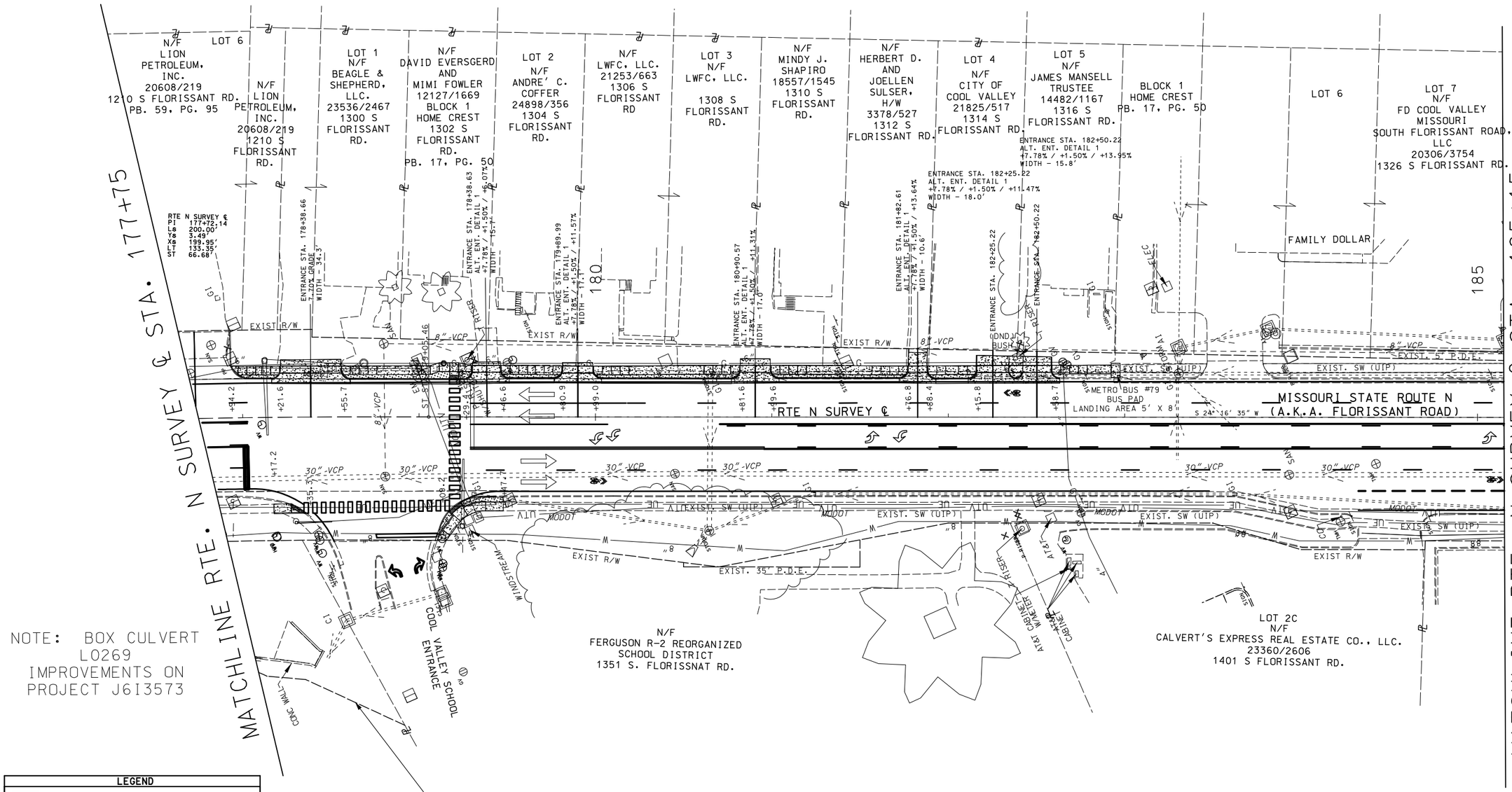
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

CONSTRUCTION PLANS

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

PARCEL #1, #2, AND #3 ARE VOID. NO PARCELS WITH THESE IDs ARE INCLUDED WITHIN PLANS

NOTE: NO ACQUISITIONS TO BE MADE ON THIS SHEET



NOTE: BOX CULVERT L0269 IMPROVEMENTS ON PROJECT J6I3573

LEGEND

- NEW ENTRANCE
- NEW SOD MEDIAN
- SIDEWALK CONCRETE
- ADA TRUNCATED DOMES
- EXIST. ROW (NORMAL ACCESS)
- PERM. SIDEWALK EASEMENT (PSE)
- TEMP. CONSTRUCTION EASEMENT (TCE)
- PERM. DRAINAGE EASEMENT (PDE)

NOTE: SEE STRIPING PLANS FOR DETAILS

SCALE

0 30 60 90

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STATE OF MISSOURI
JAMIE F. RANA
NUMBER PE-2005001034
PROFESSIONAL ENGINEER
Jamie F. Rana
01/28/2024 10:51:16 AM
JAMIE F. RANA - CIVIL
MO-PE-2005001034

DATE PREPARED 1/25/2024

ROUTE	STATE
N	MO
DISTRICT	SHEET NO.
SL	6

COUNTY ST. LOUIS

JOB NO. J6S3599

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)

CONSTRUCTION PLANS

R/W PROPERTY DETAILS			
④	N/F J.D. RAN, LLC. 12149/2135 1400 S FLORISSANT RD.	114 SF (0.003 AC) TEMP. CONST. ESMT.	0.215 AC REMAINING

PARCEL #6 IS VOID. NO PARCEL WITH THIS ID IS INCLUDED WITHIN PLANS

NOTE: FOR PROPERTIES WITH NO LISTED PARCEL#, NO ACQUISITION TO BE MADE.

ENTRANCE STA. 186+38.18
ALT. ENT. DETAIL 1
+7.78% / +1.50% / +8.12%
WIDTH = 26.0'

ENTRANCE STA. 185+58.19
+7.78% / +1.50% / +9.60%
WIDTH = 26.3'

MATCHLINE RTE. N SURVEY ℄ STA. 185+15

MATCHLINE RTE. N SURVEY ℄ STA. 192+55

BERNHARDT AVE.

LOT 4

N/F
WILLARD AND CAROL OSHIA, H/W
8088/2183
8 BERNHARDT AVE.

LOT 3

LOT 2

④
LOT 1

N/F
AAMW, LLC
24342/550
1604 S FLORISSANT RD.

⑤
N/F
P2K, LLC.
21278/5023
1600 S FLORISSANT RD.

906 SF (0.021 AC)
TEMP. CONST. ESMT.

0.530 AC REMAINING

⑦
N/F
CHURCH OF THE LIVING GOD, TEMPLE OF FAITH
20988/2182
1610 S FLORISSANT RD.

330 SF (0.008 AC)
PERM. SW. ESMT.

799 SF (0.018 AC)
TEMP. CONST. ESMT.

5.570 AC REMAINING

N/F
DANIEL J. AND ROSE HARRIS, H/W15469/3152
1684 S FLORISSANT RD.

N/F
BEAGLE & SHEPHERD, LLC.
23536/2476
1700 S FLORISSANT RD.

ENTRANCE STA. 186+72.07
ALT. ENT. DETAIL 1
+7.78% / +1.50% / +13.77%
WIDTH = 10.0'

ENTRANCE STA. 187+47.31
ALT. ENT. DETAIL 1
+7.78% / +1.50% / +7.91%
WIDTH = 26.0'

ENTRANCE STA. 188+37.89
ALT. ENT. DETAIL 1
+7.78% / +1.50% / +8.60%
WIDTH = 38.0'

ENTRANCE STA. 188+94.57

ENTRANCE STA. 191+12.43
9.19% GRADE
WIDTH = 20.0'

ESMT. TO UNION ELECTRIC LIGHT & POWER CO.
1165/286

20' W. ESMT. TO PAYNE REALTY CO FOR ROAD, SEWER, WATER AND GAS
1165/285 & 285

EXISTING PARKING LOT AND PARKING BLOCKS (DND)

EXISTING PARKING BLOCK (R&R) BACK TO PARKING LOT

EXIST. 15'W P.D.E.

EXIST R/W

EXIST. SW AND CURB RAMP (UIP)

EXISTING SIGN (R)

EXISTING MEDIAN

EXISTING LIGHT ADD TOP MOUNT BRACKET LIGHTS)

MISSOURI STATE ROUTE N
(A.K.A. FLORISSANT ROAD)
S 24° 16' 35" W

RTE N SURVEY ℄

END RESURFACING

EVANS AVE.

DOLLAR TREE
LOT 2B

N/F
DT RETAIL PROPERTIES, LLC.
23210/1846
1465 S FLORISSANT RD.

LOT 2A
N/F
WRG ASSOCIATES III
10179/1714
1501 S FLORISSANT RD.

N/F
DANIEL J. LESTER
21020/2615
1605 S FLORISSANT RD.

N/F
S&K REAL ESTATE INVESTMENT, LLC20595/67
1611 S FLORISSANT RD.

N/F
DWIGHT D. REZNY AND LINDA A. REZNY, TRUSTEES
24317/266
1617 S FLORISSANT RD.

LOT 25 LOT 24 LOT 19 LOT 18 LOT 17 LOT 16 LOT 15 LOT 14 LOT 13 LOT 12 LOT 11 LOT 10 LOT 9 LOT 8 LOT 7 LOT 6

LEGEND

- NEW ENTRANCE
- NEW SOD MEDIAN
- SIDEWALK CONCRETE
- ADA TRUNCATED DOMES
- EXIST. ROW (NORMAL ACCESS)
- PERM. SIDEWALK EASEMENT (PSE)
- TEMP. CONSTRUCTION EASEMENT (TCE)
- PERM. DRAINAGE EASEMENT (PDE)

NOTE: SEE STRIPING PLANS FOR DETAILS

SCALE
0 30 60 90

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STATE OF MISSOURI
JAMIE F. RANA
NUMBER PE-2005001034
PROFESSIONAL ENGINEER
Jamie F. Rana
01/28/2024 10:51:50 AM
JAMIE F. RANA - CIVIL
MO-PE-2005001034

DATE PREPARED	
1/25/2024	
ROUTE	STATE
N	MO
DISTRICT	SHEET NO.
SL	7
COUNTY	
ST. LOUIS	
JOB NO.	
J6S3599	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

DATE	DESCRIPTION

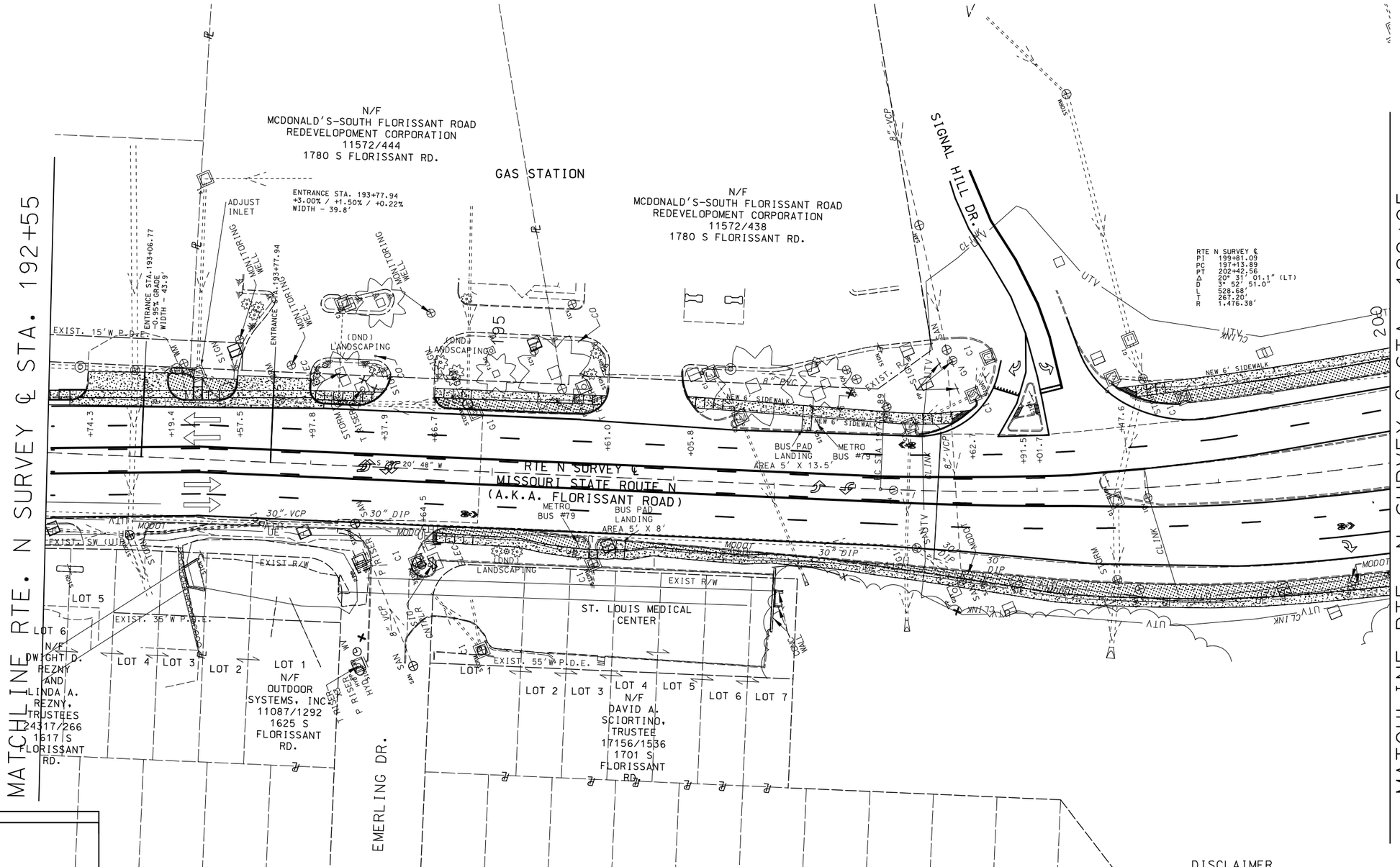
IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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

CONSTRUCTION PLANS

NOTE: NO ACQUISITIONS TO BE MADE ON THIS SHEET



LEGEND

- NEW ENTRANCE
- NEW SOD MEDIAN
- SIDEWALK CONCRETE
- ADA TRUNCATED DOMES
- EXIST. ROW (NORMAL ACCESS)
- PERM. SIDEWALK EASEMENT (PSE)
- TEMP. CONSTRUCTION EASEMENT (TCE)
- PERM. DRAINAGE EASEMENT (PDE)

NOTE: SEE STRIPING PLANS FOR DETAILS

SEE PROJECT J6M0288
MoDOT ON CALL
REPLACE EXIST. GABION WALL
WITH A9345 (SOLDIER PILE WALL)
NEAR EMERLING DR.
PROJECT WILL INSTALL NEW SIDEWALK
AND CURB RAMPS

SCALE
0 30 60 90

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STATE OF MISSOURI
JAMIE F. RANA
NUMBER PE-2005001034
PROFESSIONAL ENGINEER
Jamie F. Rana
01/28/2024 10:52:15 AM
JAMIE F. RANA - CIVIL
MO-PE-2005001034

DATE PREPARED
1/25/2024

ROUTE	STATE
N	MO
DISTRICT	SHEET NO.
SL	8

COUNTY
ST. LOUIS

JOB NO.
J6S3599

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)

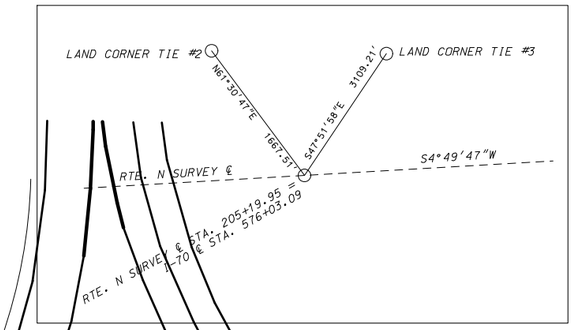
CONSTRUCTION PLANS

LAND CORNER TIE #2

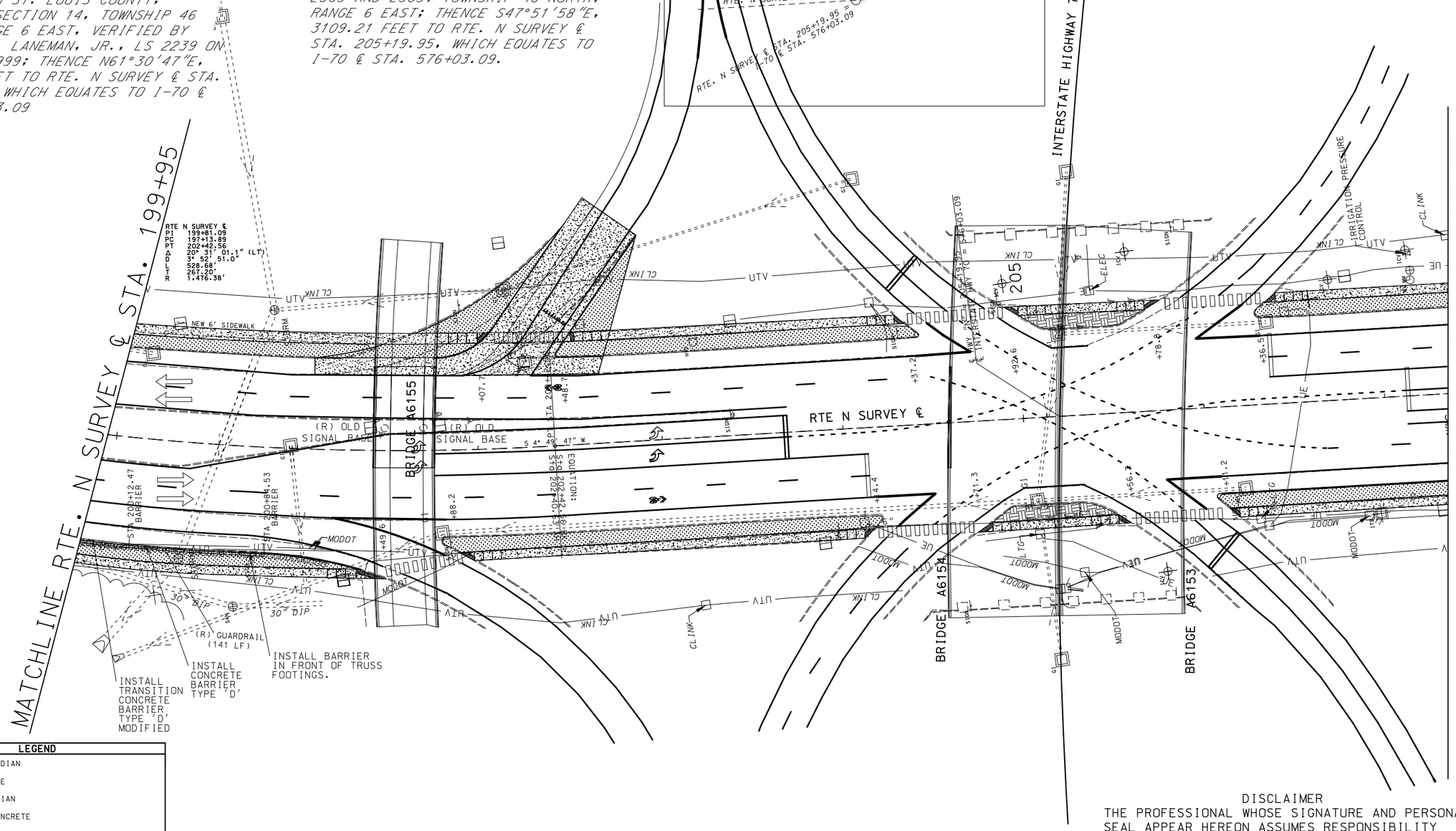
FOUND IRON PIPE, LOCATED AT THE NORTHEAST CORNER OF "FERGUSON GARDENS", A SUBDIVISION RECORDED IN PLAT BOOK 46, PAGE 35 OF THE ST. LOUIS COUNTY RECORDS AND ALSO PART OF LOT 16 OF "GEORGE M. MOORE'S SUBDIVISION" AS RECORDED IN PLAT BOOK 20, PAGE 73 OF THE ST. LOUIS COUNTY RECORDS, IN ST. LOUIS COUNTY, MISSOURI, SECTION 14, TOWNSHIP 46 NORTH, RANGE 6 EAST, VERIFIED BY THEODORE F. LANEMAN, JR., LS 2239 ON JULY 14, 1999; THENCE N61°30'47"E, 1667.51 FEET TO RTE. N SURVEY ℄ STA. 205+19.95, WHICH EQUATES TO I-70 ℄ STA. 576+03.09

LAND CORNER TIE #3

FOUND IRON PIPE, LOCATED AT THE NORTHEAST CORNER OF "NORMANDY LAKEWOOD PLAT NO. 1", A SUBDIVISION RECORDED IN PLAT BOOK 84, PAGE 28 OF THE ST. LOUIS COUNTY RECORDS, IN ST. LOUIS COUNTY, MISSOURI, U.S. SURVEYS 2503 AND 2505, TOWNSHIP 46 NORTH, RANGE 6 EAST; THENCE S47°51'58"E, 3109.21 FEET TO RTE. N SURVEY ℄ STA. 205+19.95, WHICH EQUATES TO I-70 ℄ STA. 576+03.09.



NOTE: NO ACQUISITIONS TO BE MADE ON THIS SHEET



LEGEND

- NEW BP-1 MEDIAN
- NEW ENTRANCE
- NEW SOD MEDIAN
- SIDEWALK CONCRETE
- ADA TRUNCATED DOMES
- EXIST. ROW (NORMAL ACCESS)
- PERM. SIDEWALK EASEMENT (PSE)
- TEMP. CONSTRUCTION EASEMENT (TCE)
- PERM. DRAINAGE EASEMENT (PDE)

NOTE: SEE STRIPING PLANS FOR DETAILS

SCALE

0 30 60 90

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STATE OF MISSOURI
JAMIE F. RANA
NUMBER PE-2005001034
PROFESSIONAL ENGINEER
Jamie F. Rana
(01/28/2024 11:09:09 AM
JAMIE F. RANA - CIVIL
MO-PE-2005001034

DATE PREPARED
1/25/2024

ROUTE	STATE
N	MO
DISTRICT	SHEET NO.
SL	9

COUNTY
ST. LOUIS

JOB NO.
J6S3599

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

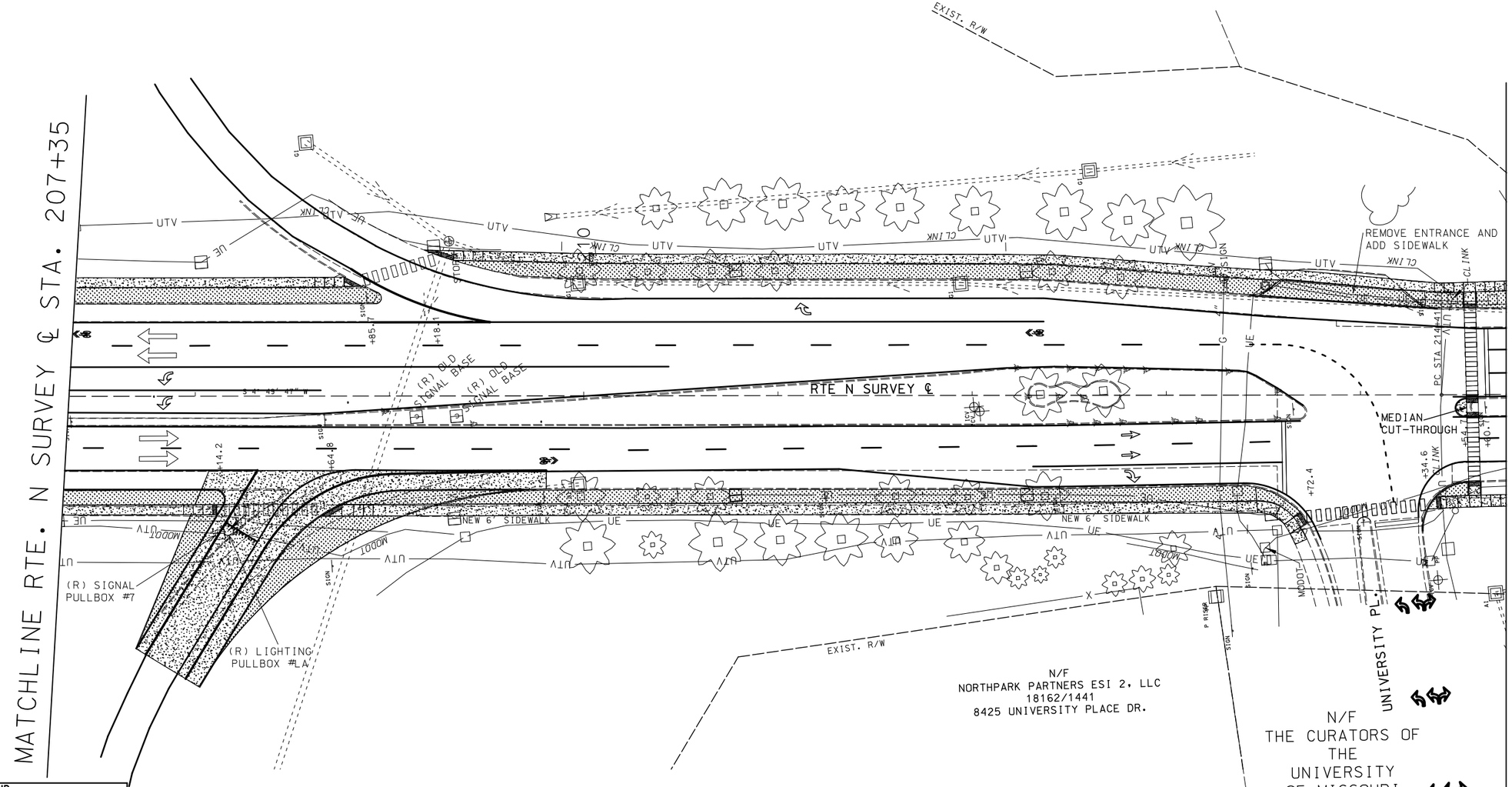
DATE	DESCRIPTION

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)

CONSTRUCTION PLANS

NOTE: NO ACQUISITIONS TO BE MADE ON THIS SHEET



LEGEND

- NEW ENTRANCE
- NEW SOD MEDIAN
- SIDEWALK CONCRETE
- ADA TRUNCATED DOMES
- EXIST. ROW (NORMAL ACCESS)
- PERM. SIDEWALK EASEMENT (PSE)
- TEMP. CONSTRUCTION EASEMENT (TCE)
- PERM. DRAINAGE EASEMENT (PDE)

NOTE: SEE STRIPING PLANS FOR DETAILS

SCALE

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STATE OF MISSOURI
JAMIE F. RANA
NUMBER PE-2005001034
PROFESSIONAL ENGINEER

Jamie F. Rana
01/28/2024 11:09:28 AM
JAMIE F. RANA - CIVIL
MO-PE-2005001034

DATE PREPARED
1/25/2024

ROUTE	STATE
N	MO
DISTRICT	SHEET NO.
SL	10

COUNTY
ST. LOUIS

JOB NO.
J6S3599

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)

CONSTRUCTION PLANS

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

NOTE: NO ACQUISITIONS TO BE MADE ON THIS SHEET

MANSION HILL CONDOMINIUMS
4371 NORMANDY TRACE DR.
PB. 253, PG. 36

N/F
THE CURATORS OF
THE UNIVERSITY OF MISSOURI
10598/423
8211 FLORISSANT RD.

NORMANDY TRACE DR.

RTE N SURVEY ℄
PI 219+80.68
PC 214+41.71
PT 224+83.19
Δ 36° 22' 34.7" (LT)
D 3° 29' 33.9"
L 1,041.48'
T 538.97'
R 1,640.42'

MATCHLINE RTE. N SURVEY ℄ STA. 214+75

MATCHLINE RTE. N SURVEY ℄ STA. 222+20

EXIST. R/W

RETAINING WALL A6337

RETAINING WALL A6338

RTE N SURVEY ℄

FLARE GUARDRAIL @ 8:1

UIP GUARDRAIL

NEW 6' SIDEWALK

REMOVE & REPLACE CWET

(R) 8" CURB & REPLACE 4" CURB FOR 100'

EXIST. SIDEWALK ALONG MSE WALL TO BE REMOVED & REPLACED PER JSP - CONSTRUCTION REQUIREMENTS. FENCE ALONG WALL SHALL BE USED IN PLACE.

N/F
THE CURATORS OF THE UNIVERSITY OF MISSOURI
11083/2423
8225 FLORISSANT RD.

NEW MGS GUARDRAIL (8' POSTS)
STATION LISTED BEGINS W/ END ANCHOR+
END ANCHOR SHALL BE MIN. 16' FROM S.W. STRIPE

R GUARDRAIL (153 L.F.)

OLD RTE N ℄

SPIRAL EXBL_RTN8_3
PI 220+61.77
Ls 200.00'
Ys 6.39'
Xs 199.82'
LT 133.40'
ST 66.73'

N/F
THE CURATORS OF THE UNIVERSITY OF MISSOURI
8424 UNIVERSITY PLACE DR.
17465/4743

CS STA 219+95.48

EQUATION: STA 219+95 = STA 220+00

LEGEND

- NEW ENTRANCE
- NEW SOD MEDIAN
- SIDEWALK CONCRETE
- ADA TRUNCATED DOMES
- EXIST. ROW (NORMAL ACCESS)
- PERM. SIDEWALK EASEMENT (PSE)
- TEMP. CONSTRUCTION EASEMENT (TCE)
- PERM. DRAINAGE EASEMENT (PDE)

NOTE: SEE STRIPING PLANS FOR DETAILS

SCALE
0 30 60 90

DISCLAIMER
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STATE OF MISSOURI
JAMIE F. RANA
NUMBER PE-2005001034
PROFESSIONAL ENGINEER
Jamie F. Rana
01/28/2024 11:09:55 AM
JAMIE F. RANA - CIVIL
MO-PE-2005001034

DATE PREPARED
1/25/2024

ROUTE	STATE
N	MO
DISTRICT	SHEET NO.
SL	11

COUNTY
ST. LOUIS

JOB NO.
J6S3599

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DATE	DESCRIPTION

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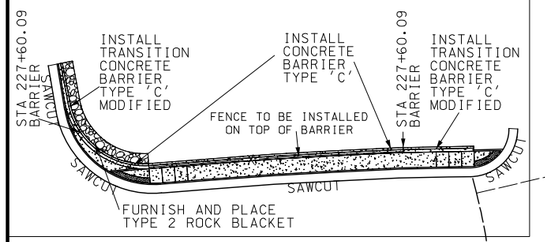
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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

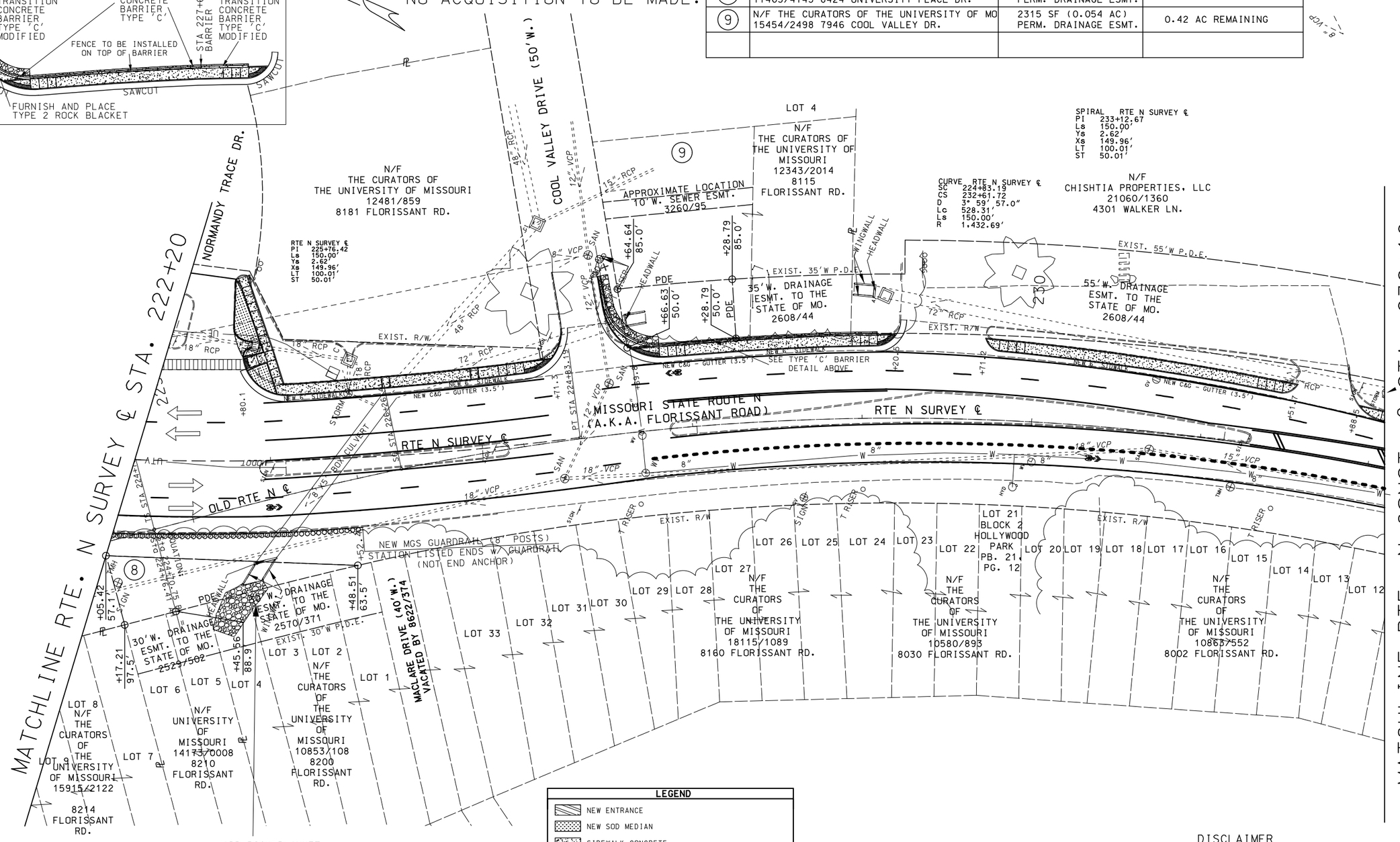
CONSTRUCTION PLANS

CONCRETE BARRIER TYPE 'C' DETAIL



NOTE: FOR PROPERTIES WITH NO LISTED PARCEL#, NO ACQUISITION TO BE MADE.

R/W PROPERTY DETAILS			
(8)	N/F THE CURATORS OF THE UNIVERSITY OF MO 17465/4743 8424 UNIVERSITY PLACE DR.	2947 SF (0.068 AC) PERM. DRAINAGE ESMT.	±15.3 AC REMAINING
(9)	N/F THE CURATORS OF THE UNIVERSITY OF MO 15454/2498 7946 COOL VALLEY DR.	2315 SF (0.054 AC) PERM. DRAINAGE ESMT.	0.42 AC REMAINING



LEGEND

- NEW ENTRANCE
- NEW SOD MEDIAN
- SIDEWALK CONCRETE
- ADA TRUNCATED DOMES
- EXIST. ROW (NORMAL ACCESS)
- PERM. SIDEWALK EASEMENT (PSE)
- TEMP. CONSTRUCTION EASEMENT (TCE)
- PERM. DRAINAGE EASEMENT (PDE)

NOTE: SEE STRIPING PLANS FOR DETAILS

SCALE

0 30 60 90

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STATE OF MISSOURI
JAMIE F. RANA
NUMBER PE-2005001034
PROFESSIONAL ENGINEER
Jamie F. Rana
01/28/2024 11:10:28 AM
JAMIE F. RANA - CIVIL
MO-PE-2005001034

DATE PREPARED 1/25/2024

ROUTE	STATE
N	MO
DISTRICT	SHEET NO.
SL	12

COUNTY ST. LOUIS

JOB NO. J6S3599

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)

CONSTRUCTION PLANS

NOTE: FOR PROPERTIES WITH NO LISTED PARCEL#, NO ACQUISITION TO BE MADE.

NOTE:
1. CLEAR AND GRUB EASTSIDE OF ROUTE N, 10' FROM SHOULDER LINE, NORTH AND SOUTH OF THE TED JONES BRIDGE.

2. SEE GEOMETRIC SHEETS FOR THE RTE N SURVEY ℄ CURVE DATA INFORMATION. NEW RTE N CONSTRUCTION ℄ REPLACES THE RTE N SURVEY CURVE DATA.

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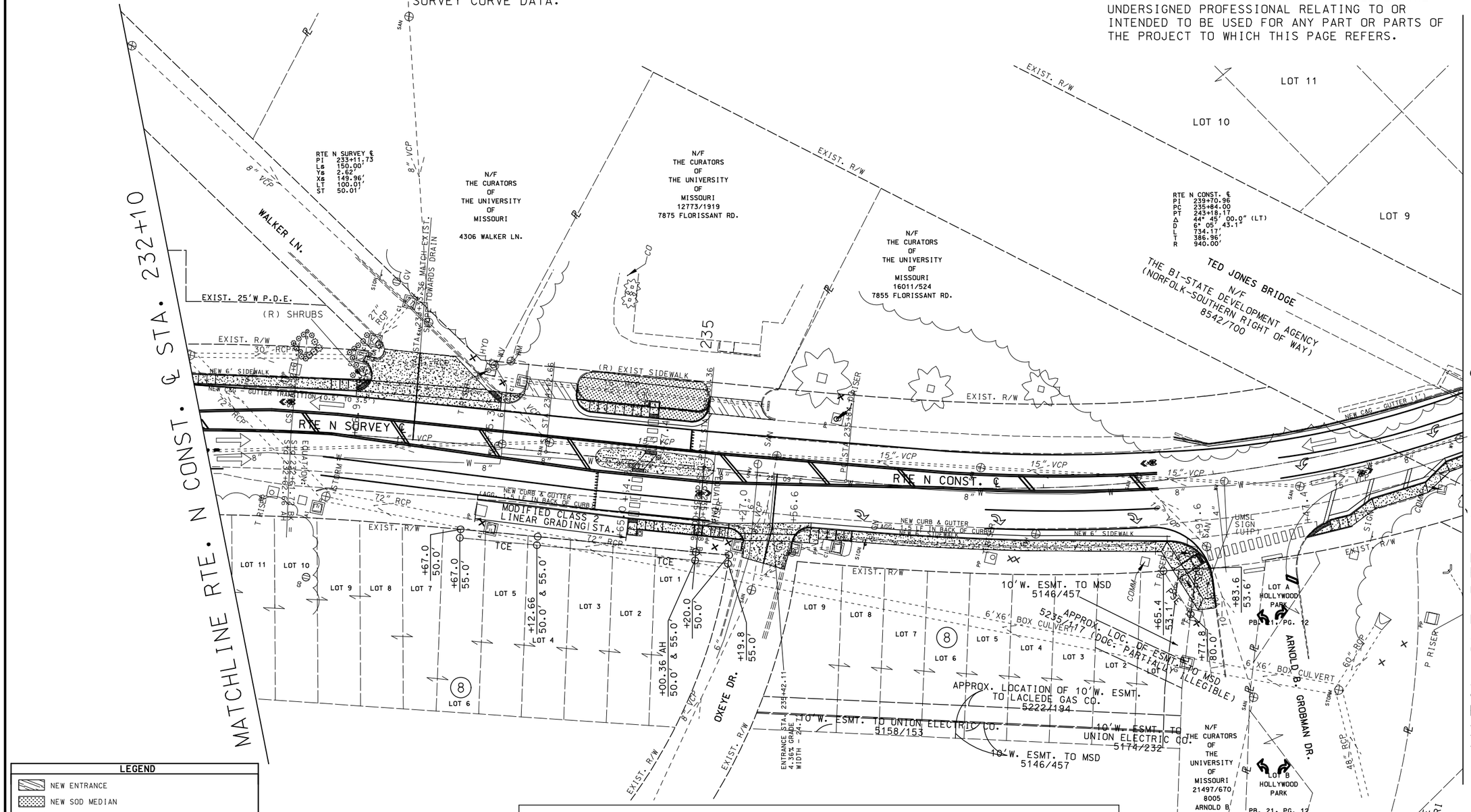

LEGEND
- NEW ENTRANCE
- NEW SOD MEDIAN
- SIDEWALK CONCRETE
- ADA TRUNCATED DOMES
- EXIST. ROW (NORMAL ACCESS)
- PERM. SIDEWALK EASEMENT (PSE)
- TEMP. CONSTRUCTION EASEMENT (TCE)
- PERM. DRAINAGE EASEMENT (PDE)

NOTE: SEE STRIPING PLANS FOR DETAILS

SCALE
0 30 60 90

R/W PROPERTY DETAILS			
(8)	N/F THE CURATORS OF THE UNIVERSITY OF MO 14381/701 7942 FLORISSANT RD.	792 SF (0.019 AC) TEMP. CONST. ESMT.	SEE PLAN SHEET 12A FOR AC REMAINING
(8)	N/F THE CURATORS OF THE UNIVERSITY OF MO 9820/2131 7800 FLORISSANT RD.	254 SF (0.006 AC) PERM. SIDEWALK ESMT.	SEE PLAN SHEET 12A FOR AC REMAINING

PARCEL #10 & #11 ARE VOID. NO PARCEL WITH THIS ID ARE INCLUDED WITHIN PLANS

STATE OF MISSOURI
JAMIE F. RANA
NUMBER PE-2005001034
PROFESSIONAL ENGINEER
Jamie F. Rana
01/28/2024 11:10:55 AM
JAMIE F. RANA - CIVIL
MO-PE-2005001034

DATE PREPARED: 1/25/2024

ROUTE	STATE
N	MO
DISTRICT	SHEET NO.
SL	13

COUNTY: ST. LOUIS
JOB NO.: J6S3599
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)

CONSTRUCTION PLANS

NOTE:
1. CLEAR AND GRUB EASTSIDE OF ROUTE N, 10′ FROM SHOULDER LINE, NORTH AND SOUTH OF THE TED JONES BRIDGE.

NOTE: NO ACQUISITIONS TO BE BE MADE ON THIS SHEET

℄ STA. 239+50

MATCHLINE RTE. N CONST. ℄

MATCHLINE RTE. N SURVEY ℄ STA. 247+00

RTE N CONST. ℄
PI 239+70.96
PC 235+84.00
PT 243+18.17
Δ 44° 45′ 00.0″ (LT)
D 6° 05′ 43.1″
L 734.17′
T 386.96′
R 940.00′

RTE N CONST. ℄
PI 246+34.08
PC 244+53.00
PT 248+14.68
Δ 7° 14′ 00.0″ (RT)
D 1° 59′ 59.6″
L 361.68′
T 181.08′
R 2,864.93′

N/F
THE CURATORS
OF
THE UNIVERSITY
OF
MISSOURI
7801 ROSEDALE DR.
10519/821

LOT 1
LOT 2
LOT 3
LOT 4
LOT 5
LOT 6
LOT 7
LOT 8
LOT 2
LOT 3
LOT 4

INSTALL 30′ L x 10′ W CONC. BLOCK MAT
INSTALL 18′ L x 7′ W CONC. BLOCK MAT

ROSEDALE DRIVE

N/F
CRAIG A. BELLM
17772/513
7830
ROSEDALE
DR.

MISSOURI STATE ROUTE N
(A.K.A. FLORISSANT ROAD)

FLASHING PEDESTRIAN WARNING AHEAD SIGN

RTE N CONST. ℄

TED JONES BRIDGE

20′ W. DRAINAGE ESMT. TO THE STATE OF MO. P-114
EXIST. 20′ W P.D.E.

10′ W. DRAINAGE ESMT. TO THE STATE OF MO. P-114
EXIST. 10′ W P.D.E.

ELEC CABINET
COMM
METAL DOOR-HIGH VOLTAGE

N/F
THE BI-STATE DEVELOPMENT AGENCY
5 LUCAS LN A

N/F
THE BI-STATE DEVELOPMENT AGENCY
(NORFOLK-SOUTHERN RIGHT OF WAY)
8542/700

LOT 13
N/F
THE CURATORS OF
THE UNIVERSITY OF MISSOURI
14250/350
7708 FLORISSANT RD.

LOT 14
N/F
THE CURATORS
OF
THE UNIVERSITY
OF MISSOURI
13003/1584
7700 FLORISSANT RD.

LOT 15

WACO DRIVE

LOT 13
N/F
THE CITY
OF
NORMANDY
20260/94
7674
FLORISSANT
RD.

LOT 12

LOT 14
AMENDED
SUBDIVISION
OF
NORMANDY
HEIGHTS
PB.4, PG.64

35′ W. DRA
ESMT. TO
STATE OF
P-114

ENTRANCE STA. 243+47.54
-4.42% GRADE,
WIDTH – 30.0′

ENTRANCE STA. 244+77.03
-9.26% GRADE,
WIDTH – 27.0′

NEW SIDEWALK VARIES 5′ TO 4.5′
INSTALL HANDRAIL

NEW SIDEWALK VARIES 4.5′ TO 5′

LEGEND

- NEW ENTRANCE
- NEW SOD MEDIAN
- SIDEWALK CONCRETE
- ADA TRUNCATED DOMES
- EXIST. ROW (NORMAL ACCESS)
- PERM. SIDEWALK EASEMENT (PSE)
- TEMP. CONSTRUCTION EASEMENT (TCE)
- PERM. DRAINAGE EASEMENT (PDE)

NOTE: SEE STRIPING PLANS FOR DETAILS

SCALE
0 30 60 90

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STATE OF MISSOURI
JAMIE F. RANA
NUMBER PE-2005001034
PROFESSIONAL ENGINEER
Jamie F. Rana
01/26/2024 11:11:22 AM
JAMIE F. RANA - CIVIL
MO-PE-2005001034

DATE PREPARED
1/25/2024

ROUTE	STATE
N	MO
DISTRICT	SHEET NO.
SL	14

COUNTY
ST. LOUIS

JOB NO.
J6S3599

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)

CONSTRUCTION PLANS

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NOTE: FOR PROPERTIES WITH NO LISTED PARCEL#, NO ACQUISITION TO BE MADE.

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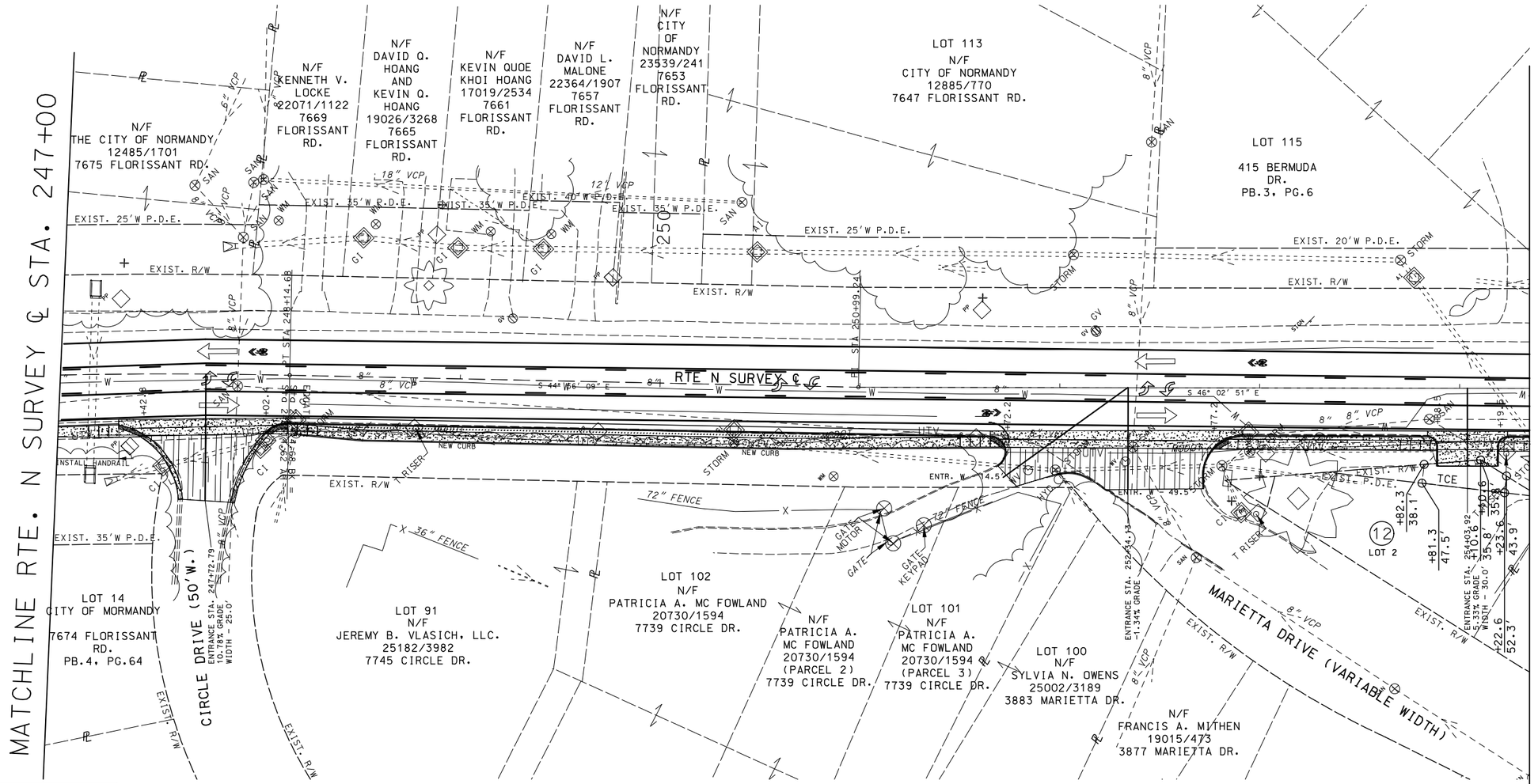

R/W PROPERTY DETAILS			
12	N/F BRYCE M. GOMAN AND DEBORAH S. POLLECK, H/W 8347/645 7630 FLORISSANT RD.	502 SF (0.012 AC) TEMP. CONST. ESMT.	0.168 AC REMAINING

LEGEND

- NEW ENTRANCE
- NEW SOD MEDIAN
- SIDEWALK CONCRETE
- ADA TRUNCATED DOMES
- EXIST. ROW (NORMAL ACCESS)
- PERM. SIDEWALK EASEMENT (PSE)
- TEMP. CONSTRUCTION EASEMENT (TCE)
- PERM. DRAINAGE EASEMENT (PDE)

NOTE: SEE STRIPING PLANS FOR DETAILS

SCALE
0 30 60 90

NOTE:
1. CLEAR AND GRUB EASTSIDE OF ROUTE N, 5' FROM SHOULDER LINE, BETWEEN CIRCLE DR. AND MARIETTA DR.

STATE OF MISSOURI
JAMIE F. RANA
NUMBER PE-2005001034
PROFESSIONAL ENGINEER
Jamie F. Rana
01/28/2024 11:11:45 AM
JAMIE F. RANA - CIVIL
MO-PE-2005001034

DATE PREPARED
1/25/2024

ROUTE	STATE
N	MO
DISTRICT	SHEET NO.
SL	15

COUNTY
ST. LOUIS

JOB NO.
J6S3599

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DATE	DESCRIPTION

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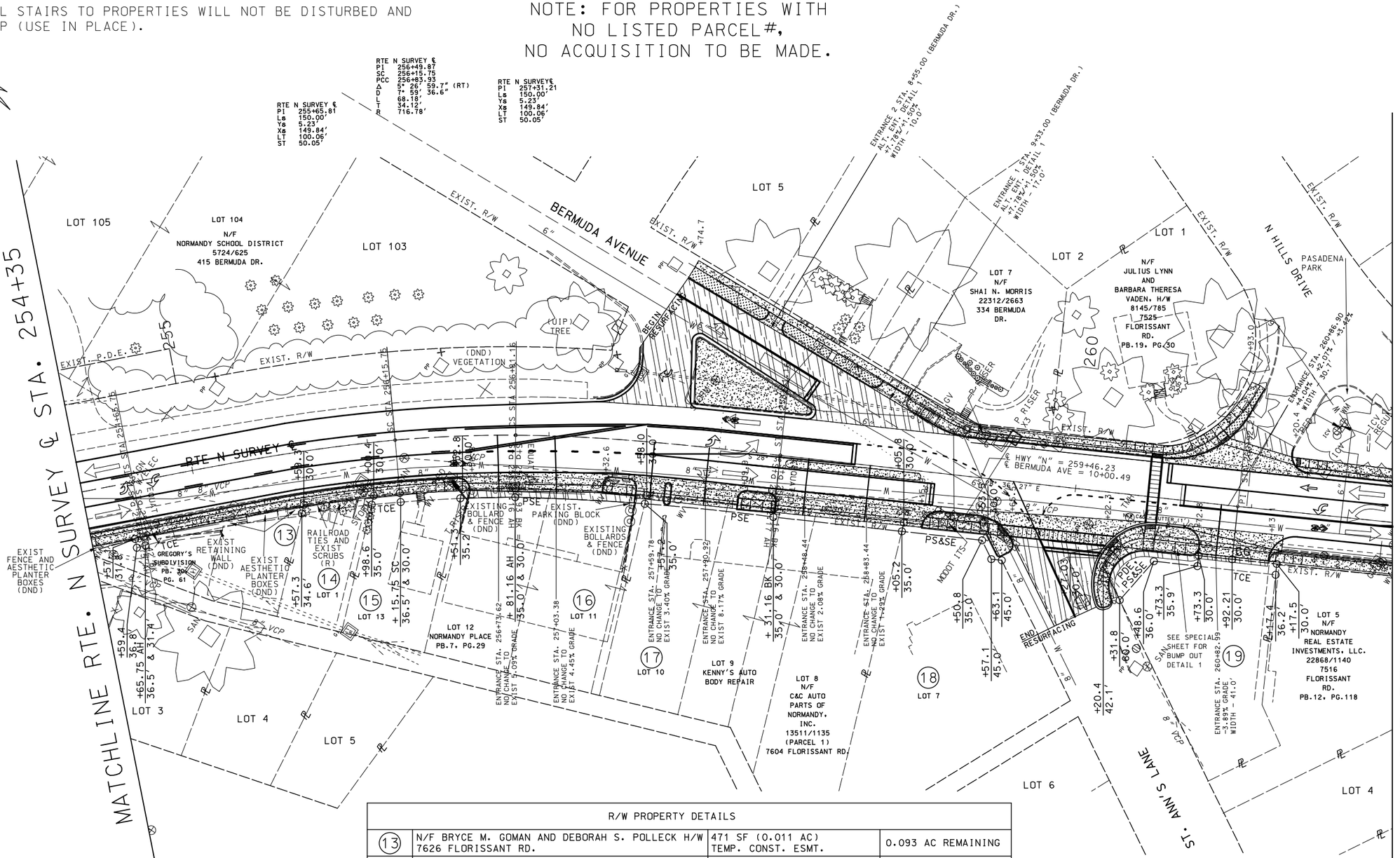
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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

CONSTRUCTION PLANS

NOTE:
1. ALL STAIRS TO PROPERTIES WILL NOT BE DISTURBED AND ARE UIP (USE IN PLACE).

NOTE: FOR PROPERTIES WITH NO LISTED PARCEL#, NO ACQUISITION TO BE MADE.



LEGEND
NEW ENTRANCE
NEW SOD MEDIAN
SIDEWALK CONCRETE
ADA TRUNCATED DOMES
EXIST. ROW (NORMAL ACCESS)
PERM. SIDEWALK EASEMENT (PSE)
TEMP. CONSTRUCTION EASEMENT (TCE)
PERM. DRAINAGE EASEMENT (PDE)
NOTE: SEE STRIPING PLANS FOR DETAILS

R/W PROPERTY DETAILS

(13)	N/F BRYCE M. GOMAN AND DEBORAH S. POLLECK H/W 7626 FLORISSANT RD.	471 SF (0.011 AC) TEMP. CONST. ESMT.	0.093 AC REMAINING
(14)	N/F BRYCE M. GOMAN AND DEBORAH S. POLLECK H/W 7904/1399 7624 FLORISSANT RD.	190 SF (0.004 AC) TEMP. CONST. ESMT.	0.062 AC REMAINING
(15)	N/F DARK HORSE HOLDINGS, LLC. 23942/1208 7620 FLORISSANT RD.	259 SF (0.006 AC) TEMP. CONST. ESMT.	0.096 AC REMAINING
(16)	N/F GVR 01, LLC. 23832/834 7610 FLORISSANT RD.	538 SF (0.012 AC) PERM. SW ESMT.	0.249 AC REMAINING
(17)	N/F C&C AUTO PARTS OF NORMANDY, INC. 13511/1135 7604 FLORISSANT RD.	719 SF (0.017 AC) PERM. SW ESMT.	0.479 AC REMAINING
(18)	N/F DAVID L. FIELD 10676/479 3835 ST. ANNS LN.	307 SF (0.007 AC) PERM. SW/SIGNAL ESMT.	0.303 AC REMAINING
(19)	N/F NORMANDY MARKET, LLC. 22296/4236 7528 FLORISSANT RD.	269 SF (0.006 AC) TEMP. CONST. ESMT. 649 SF (0.015 AC) PERM. SW/SG/DRAINAGE ESMT.	0.187 AC REMAINING

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STATE OF MISSOURI
JAMIE F. RANA
NUMBER PE-2005001034
PROFESSIONAL ENGINEER
Jamie F. Rana
(01/28/2024 11:12:07 AM
JAMIE F. RANA - CIVIL
MO-PE-2005001034

DATE PREPARED
1/25/2024

ROUTE	STATE
N	MO
DISTRICT	SHEET NO.
SL	16

COUNTY
ST. LOUIS

JOB NO.
J6S3599

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

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)

CONSTRUCTION PLANS

NOTE:
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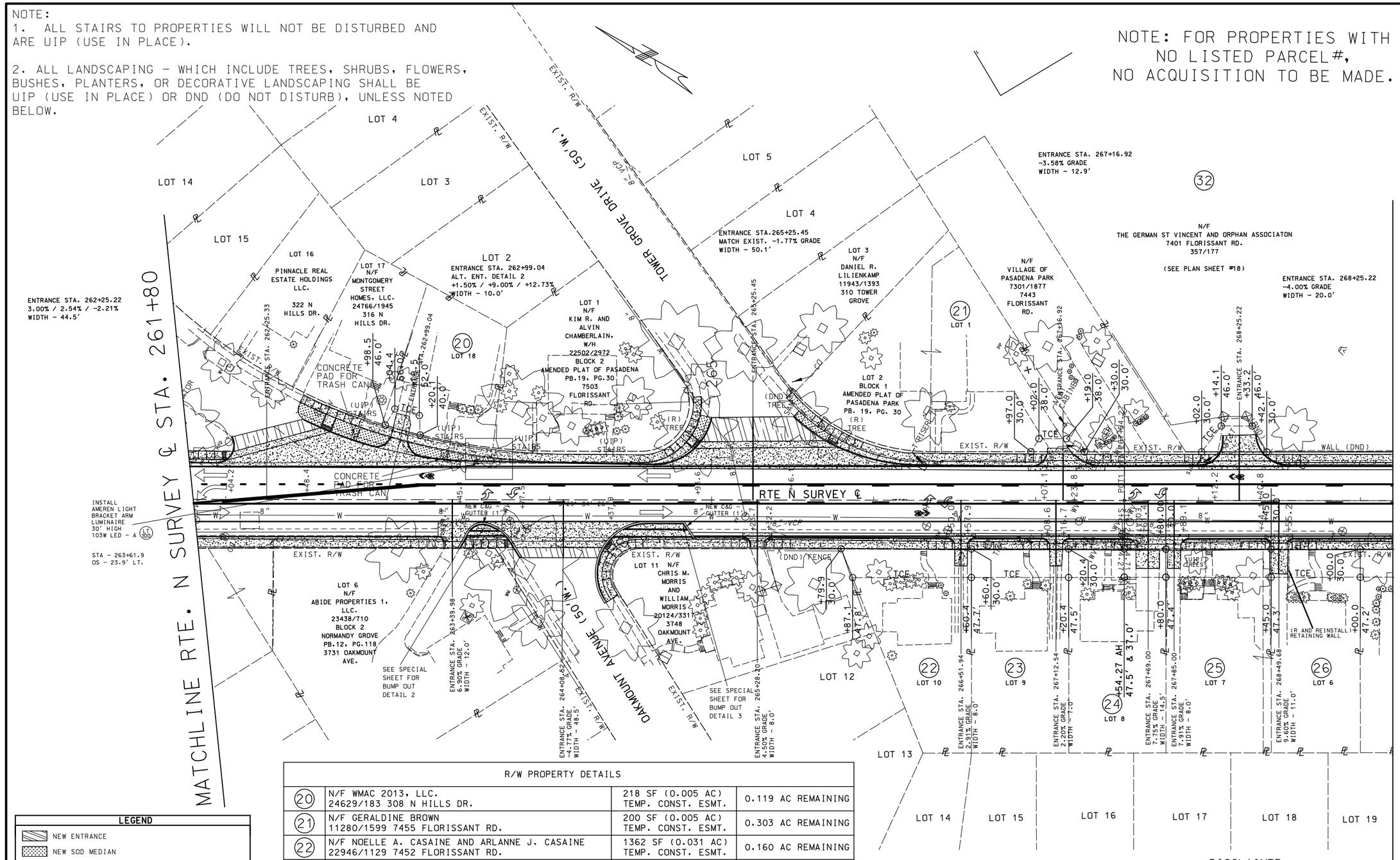
2. ALL LANDSCAPING - WHICH INCLUDE TREES, SHRUBS, FLOWERS, BUSHES, PLANTERS, OR DECORATIVE LANDSCAPING SHALL BE UIP (USE IN PLACE) OR DND (DO NOT DISTURB), UNLESS NOTED BELOW.

NOTE: FOR PROPERTIES WITH NO LISTED PARCEL #, NO ACQUISITION TO BE MADE.



R/W PROPERTY DETAILS			
(20)	N/F WMAC 2013, LLC. 24629/183 308 N HILLS DR.	218 SF (0.005 AC) TEMP. CONST. ESMT.	0.119 AC REMAINING
(21)	N/F GERALDINE BROWN 11280/1599 7455 FLORISSANT RD.	200 SF (0.005 AC) TEMP. CONST. ESMT.	0.303 AC REMAINING
(22)	N/F NOELLE A. CASAINE AND ARLANNE J. CASAINE 22946/1129 7452 FLORISSANT RD.	1362 SF (0.031 AC) TEMP. CONST. ESMT.	0.160 AC REMAINING
(23)	N/F STANLEY K. AND ROBBIE L. SCHAEFER 12446/1478 7448 FLORISSANT RD.	1055 SF (0.024 AC) TEMP. CONST. ESMT.	0.173 AC REMAINING
(24)	N/F 7444 FLORISSANT ROAD, LLC. 22867/426 7444 FLORISSANT RD.	1049 SF (0.024 AC) TEMP. CONST. ESMT.	0.173 AC REMAINING
(25)	N/F PAMELA MASON 11417/1930 7440 FLORISSANT RD.	1130 SF (0.026 AC) TEMP. CONST. ESMT.	0.188 AC REMAINING
(26)	N/F DAVID OWENS 17041/454 7436 FLORISSANT RD.	950 SF (0.022 AC) TEMP. CONST. ESMT.	0.159 AC REMAINING

LEGEND

- NEW ENTRANCE
- NEW SOD MEDIAN
- SIDEWALK CONCRETE
- ADA TRUNCATED DOMES
- EXIST. ROW (NORMAL ACCESS)
- PERM. SIDEWALK EASEMENT (PSE)
- TEMP. CONSTRUCTION EASEMENT (TCE)
- PERM. DRAINAGE EASEMENT (PDE)

NOTE: SEE STRIPING PLANS FOR DETAILS

SCALE
0 30 60 90

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JAMIE F. RANA
NUMBER PE-2005001034
PROFESSIONAL ENGINEER
Jamie F. Rana
01/28/2024 11:12:46 AM
JAMIE F. RANA - CIVIL
MO-PE-2005001034

DATE PREPARED
1/25/2024

ROUTE	STATE
N	MO
DISTRICT	SHEET NO.
SL	17

COUNTY
ST. LOUIS

JOB NO.
J6S3599

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)

CONSTRUCTION PLANS

NOTE:
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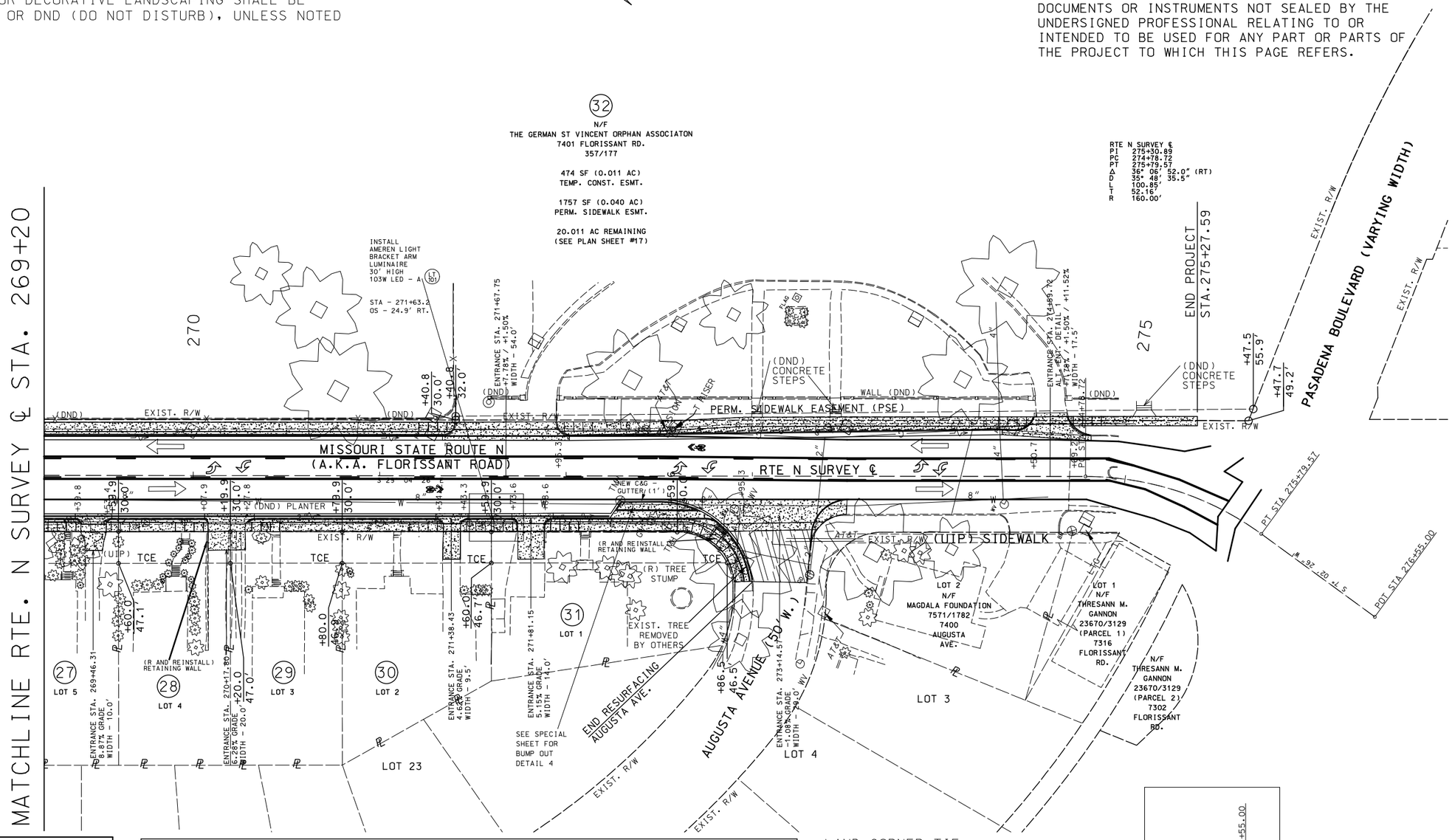


LEGEND
- NEW ENTRANCE
- NEW SOD MEDIAN
- SIDEWALK CONCRETE
- ADA TRUNCATED DOMES
- EXIST. ROW (NORMAL ACCESS)
- PERM. SIDEWALK EASEMENT (PSE)
- TEMP. CONSTRUCTION EASEMENT (TCE)
- PERM. DRAINAGE EASEMENT (PDE)

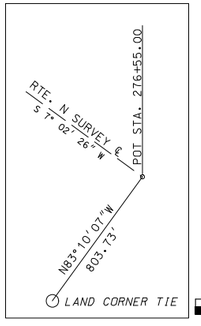
NOTE: SEE STRIPING PLANS FOR DETAILS

R/W PROPERTY DETAILS

(27)	N/F CARLTON HALL 24710/4843 7430 FLORISSANT RD.	1031 SF (0.024 AC) TEMP. CONST. ESMT.	0.173 AC REMAINING
(28)	N/F MICHAEL J. AND CHRISTAL A. HAMPTON, H/W 8651/582 7426 FLORISSANT RD.	1024 SF (0.024 AC) TEMP. CONST. ESMT.	0.173 AC REMAINING
(29)	N/F BARBARA L. ROBINSON 12767/2087 7422 FLORISSANT RD.	1017 SF (0.023 AC) TEMP. CONST. ESMT.	0.173 AC REMAINING
(30)	N/F VINCENT B. AND ADRIENNE D. TILLMAN, H/W 10923/817 7418 FLORISSANT RD.	1347 SF (0.031 AC) TEMP. CONST. ESMT.	0.189 AC REMAINING
(31)	N/F DONNY J. MOSLEY 15920/27977 7400 FLORISSANT RD.	1981 SF (0.046 AC) TEMP. CONST. ESMT.	0.203 AC REMAINING

LAND CORNER TIE

FOUND RAILROAD SPIKE, LOCATED AT THE SOUTHEAST CORNER OF "A RESUBDIVISION OF THE NORTHERN PART OF LOT 1 IN BLOCK 5 OF OEHLER'S PLACE AT NORMANDY", A SUBDIVISION RECORDED IN PLAT BOOK 348, PAGE 580 OF THE ST. LOUIS COUNTY RECORDS, IN ST. LOUIS COUNTY, MISSOURI; THENCE 803.73 FEET N83°10'07"W OF RTE. N SURVEY ℄ POT STA. 276+55.00.



SCALE
0 30 60 90

STATE OF MISSOURI
JAMIE F. RANA
NUMBER PE-2005001034
PROFESSIONAL ENGINEER
Jamie F. Rana
01/28/2024 11:13:06 AM
JAMIE F. RANA - CIVIL
MO-PE-2005001034

DATE PREPARED
1/25/2024

ROUTE	STATE
N	MO
DISTRICT	SHEET NO.
SL	18

COUNTY
ST. LOUIS

JOB NO.
J6S3599

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)

CONSTRUCTION PLANS

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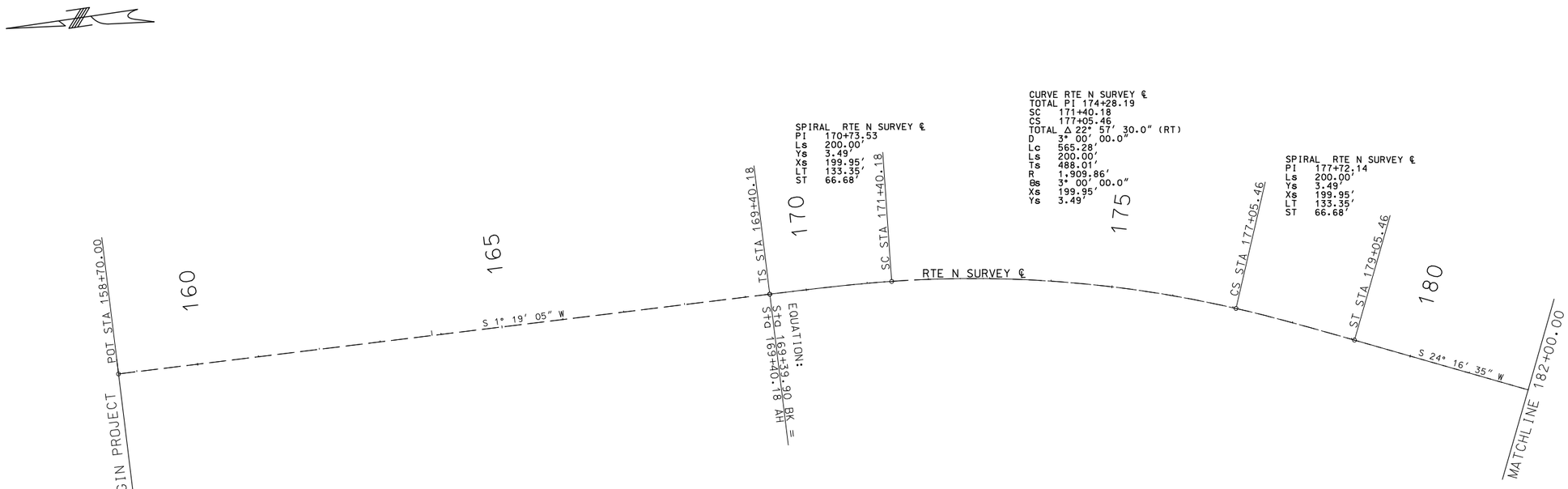

SCALE

0 100 200 300 400 500

STATE OF MISSOURI
JAMIE F. RANA
NUMBER PE-2005001034
PROFESSIONAL ENGINEER

Jamie F. Rana
01/25/2024 10:43:57 AM
JAMIE F. RANA - CIVIL
MO-PE-2005001034

DATE PREPARED
1/24/2024

ROUTE	STATE
N	MO
DISTRICT	SHEET NO.
SL	19

COUNTY
ST. LOUIS

JOB NO.
J6S3599

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)

GEOMETRIC SHEETS

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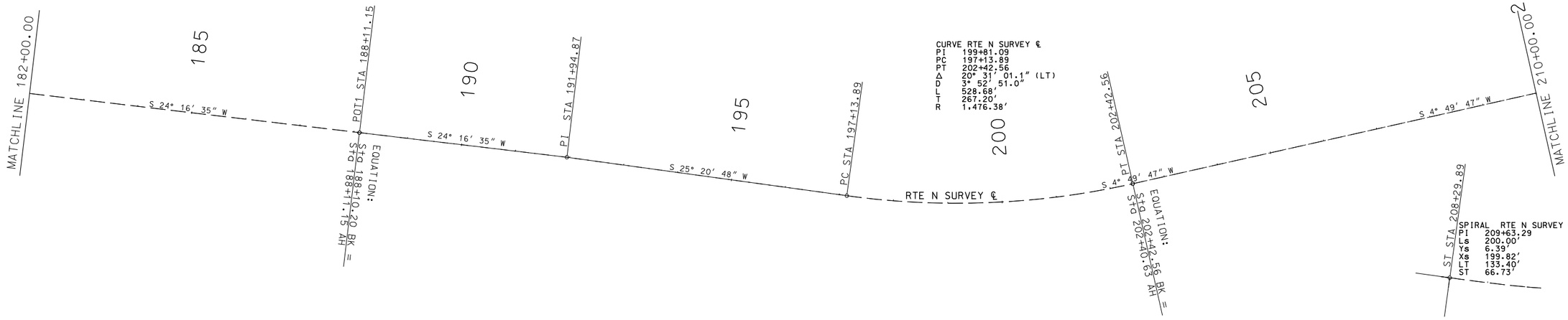

SCALE

0 100 200 300 400 500

STATE OF MISSOURI
JAMIE F. RANA
NUMBER PE-2005001034
PROFESSIONAL ENGINEER

Jamie F. Rana
01/25/2024 10:45:09 AM
JAMIE F. RANA - CIVIL
MO-PE-2005001034

DATE PREPARED
1/24/2024

ROUTE	STATE
N	MO
DISTRICT	SHEET NO.
SL	20

COUNTY
ST. LOUIS

JOB NO.
J6S3599

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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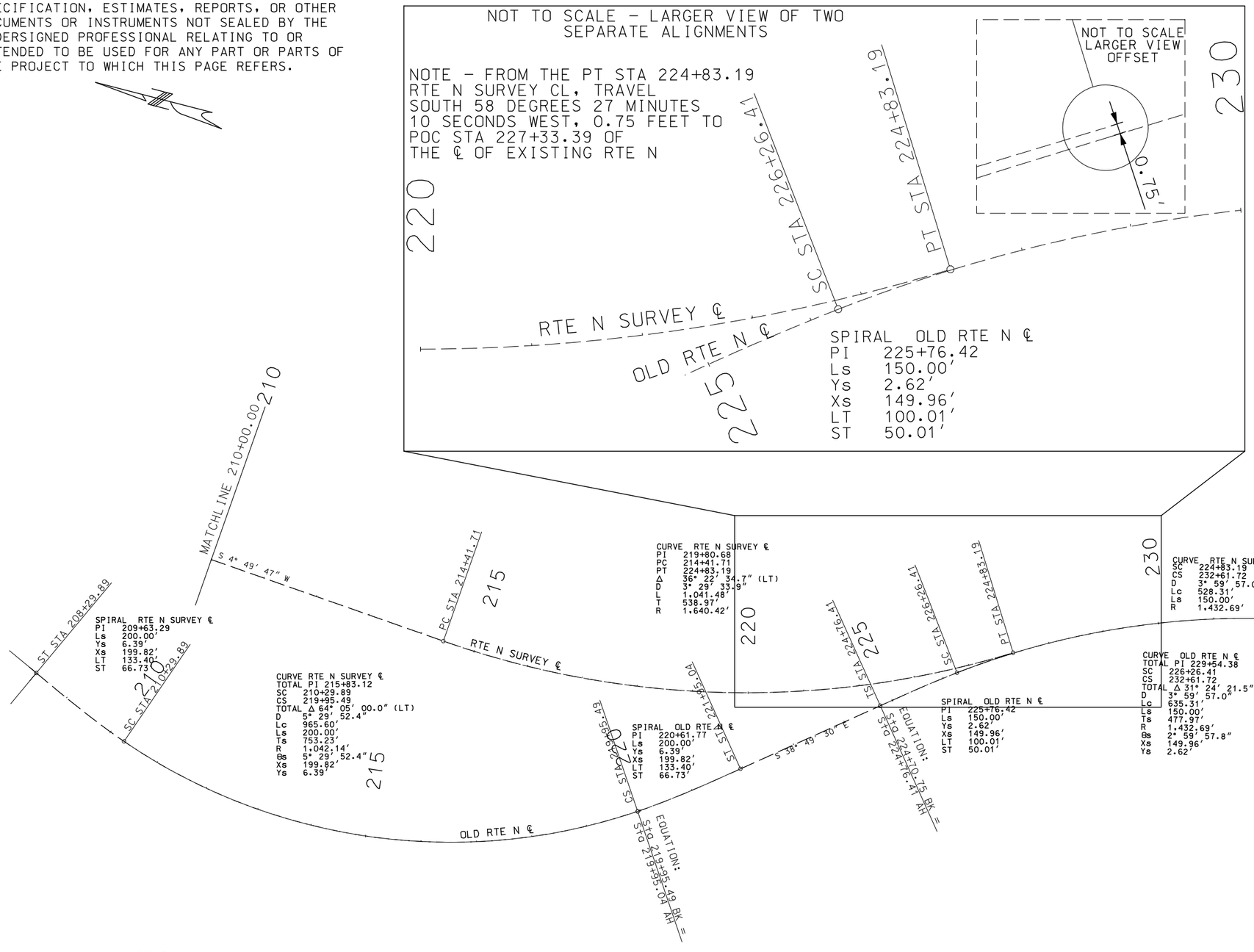

STATE OF MISSOURI
JAMIE F. RANA
NUMBER PE-2005001034
PROFESSIONAL ENGINEER

Jamie F. Rana
01/25/2024 10:46:21 AM
JAMIE F. RANA - CIVIL
MO-PE-2005001034

DATE PREPARED
1/24/2024

ROUTE	STATE
N	MO
DISTRICT	SHEET NO.
SL	21

COUNTY
ST. LOUIS

JOB NO.
J6S3599

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)

GEOMETRIC SHEETS

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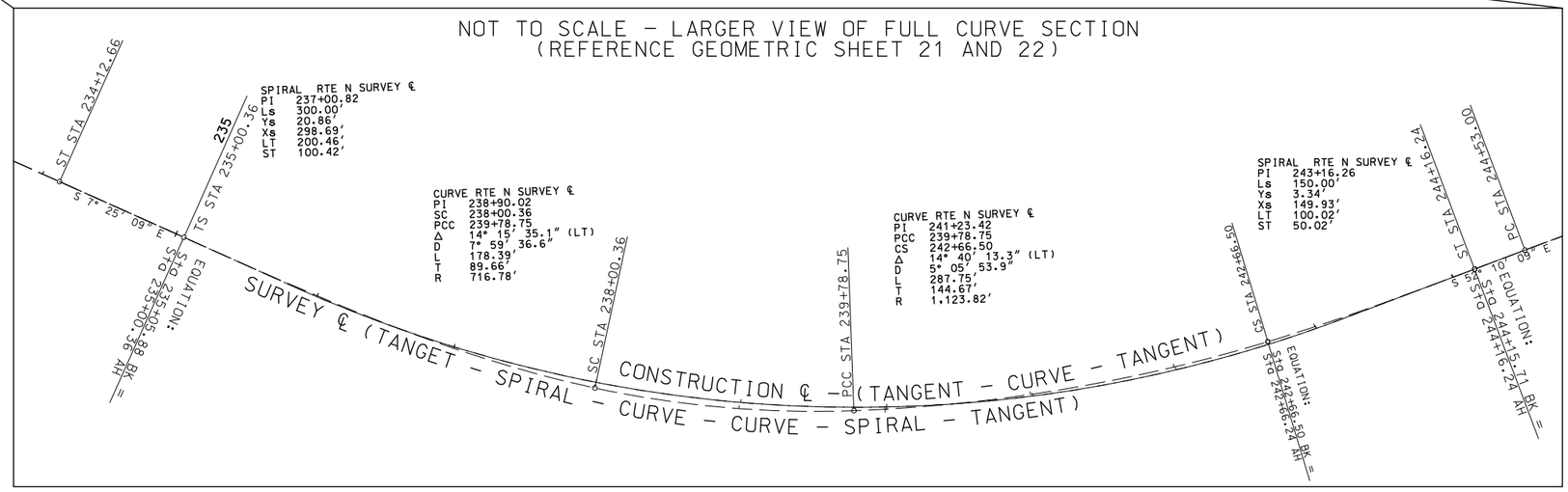
NOTE: THE NEW CONSTRUCTION ℄ CURVE INFORMATION IS ONLY LOCATED IN THIS SECTION AND TIES BACK INTO THE SURVEY ℄ AT BOTH ENDS OF THE CURVE.

NOT TO SCALE – LARGER VIEW OF FULL CURVE SECTION
(REFERENCE GEOMETRIC SHEET 21 AND 22)



STATE OF MISSOURI
JAMIE F. RANA
NUMBER PE-2005001034
PROFESSIONAL ENGINEER
Jamie F. Rana
01/25/2024 10:47:07 AM
JAMIE F. RANA - CIVIL
MO-PE-2005001034

DATE PREPARED
1/24/2024

ROUTE	STATE
N	MO
DISTRICT	SHEET NO.
SL	22

COUNTY
ST. LOUIS

JOB NO.
J6S3599

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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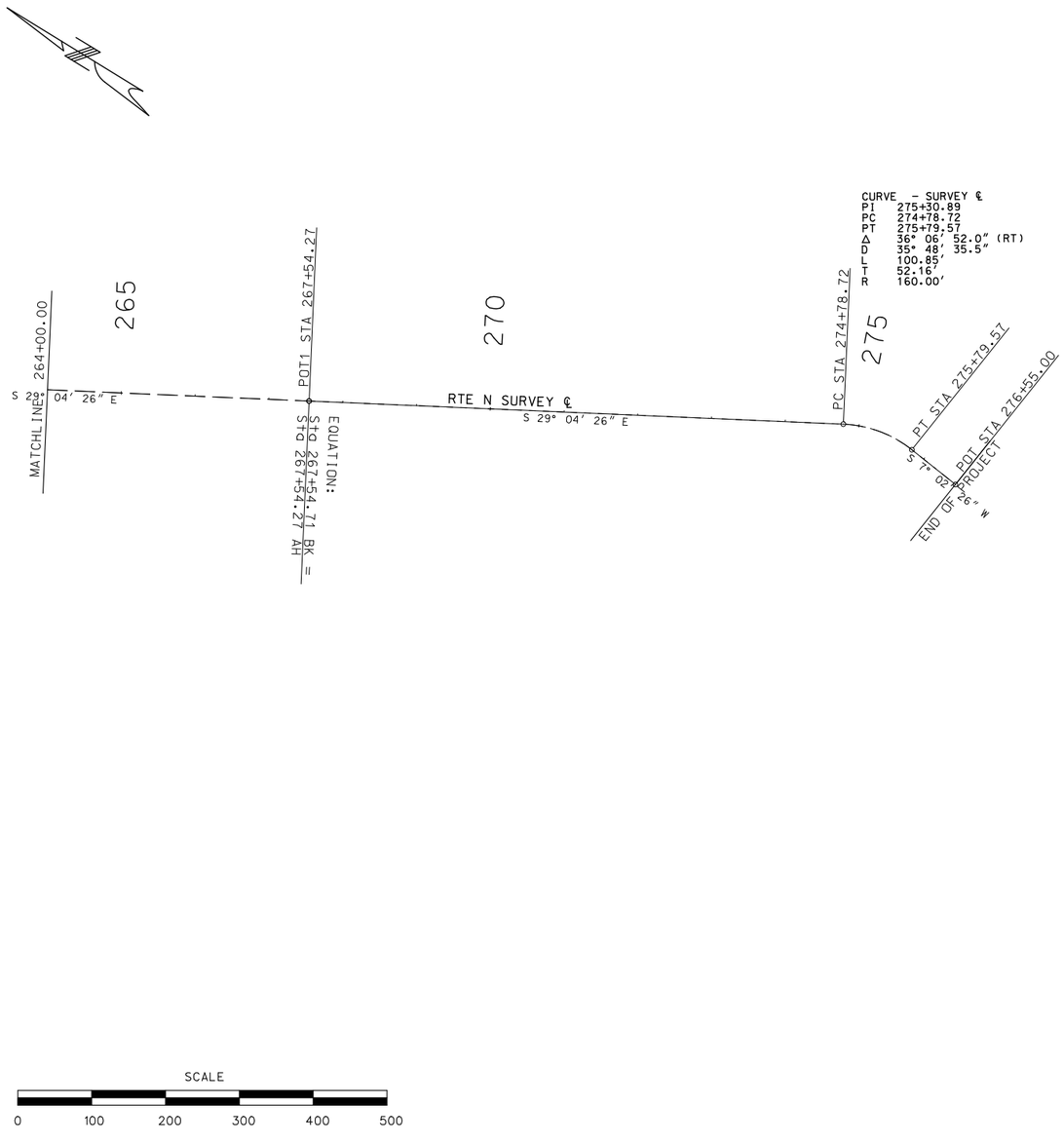


SCALE

0 100 200 300 400 500

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

STATE OF MISSOURI
JAMIE F. RANA
NUMBER PE-2005001034
PROFESSIONAL ENGINEER
Jami F. Rana
01/25/2024 10:48:17 AM
JAMIE F. RANA - CIVIL
MO-PE-2005001034

DATE PREPARED
1/24/2024

ROUTE	STATE
N	MO
DISTRICT	SHEET NO.
SL	23

COUNTY
ST. LOUIS

JOB NO.
J6S3599

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION	DATE

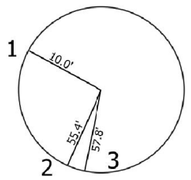
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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

GEOMETRIC SHEETS

NOTE: COORDINATES FOR SURVEY REFERENCE POINTS ARE MODIFIED STATE PLANE

PT. NO. 100

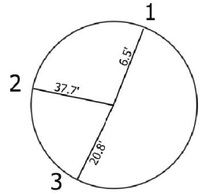


STAMPED: CP 100

1) EDGE OF ASPHALT
2) UTILITY POLE
3) GUY ANCHOR
4) N/A
5) N/A

POINT 100
NORTHING = 1044695.8692
EASTING = 879667.6096
ELEV. 634.935

PT. NO. 101

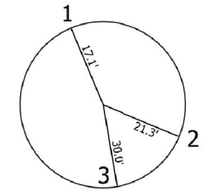


STAMPED: CP 101

1) EDGE OF ASPHALT
2) FIRE HYDRANT
3) EDGE OF ASPHALT, PARKING LOT
4) N/A
5) N/A

POINT 101
NORTHING = 1045938.4133
EASTING = 876924.0721
ELEV. 650.448

PT. NO. 102

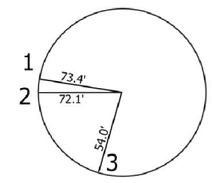


STAMPED: CP 102

1) EDGE OF ASPHALT
2) STORM MANHOLE CENTER
3) SIGN, NO OVERNIGHT PARKING
4) N/A
5) N/A

POINT 102
NORTHING = 1057612.6842
EASTING = 876396.6531
ELEV. 484.922

PT. NO. 103

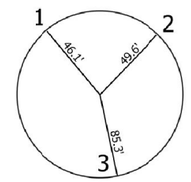


STAMPED: CP 103

1) GUY ANCHOR
2) SIGN, LANE MERGE
3) ELECTRIC PEDISTAL MODOT
4) N/A
5) N/A

POINT 103
NORTHING = 1070784.3456
EASTING = 874924.2975
ELEV. 606.771

PT. NO. 104

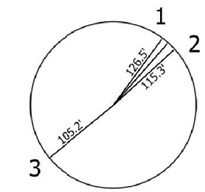


STAMPED: CP 104

1) UTILITY POLE
2) FLAG POLE
3) SIGN, NORTH COUNTY CHRISTIAN SCHOOL
4) N/A
5) N/A

POINT 104
NORTHING = 1071264.4488
EASTING = 870355.7838
ELEV. 566.070

PT. NO. 110

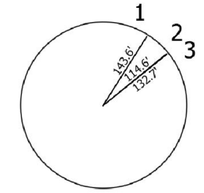


STAMPED: CP 110

1) HANDHOLE, CENTER MODOT ITS
2) CONCRETE PAD, SE CORNER
3) FIRE HYDRANT
4) N/A
5) N/A

POINT 110
NORTHING = 1069448.7854
EASTING = 872937.8799
ELEV. 570.550

PT. NO. 111

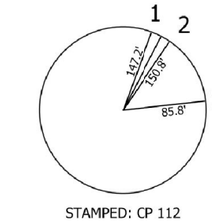


STAMPED: CP 111

1) WATER VALVE
2) MANHOLE, CENTER
3) WATER VALVE
4) N/A
5) N/A

POINT 111
NORTHING = 1067909.9373
EASTING = 873162.8736
ELEV. 623.197

PT. NO. 112

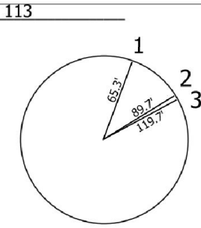


STAMPED: CP 112

1) UTILITY POLE
2) HANDHOLE, CENTER MODOT ITS
3) UTILITY POLE
4) N/A
5) N/A

POINT 112
NORTHING = 1062700.8499
EASTING = 874740.5849
ELEV. 577.844

PT. NO. 113

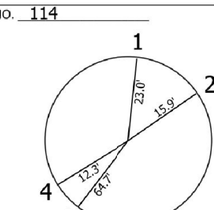


STAMPED: CP 113

1) MANHOLE, CENTER
2) MANHOLE, CENTER
3) WATER VALVE
4) N/A
5) N/A

POINT 113
NORTHING = 1061295.7706
EASTING = 875369.6182
ELEV. 525.366

PT. NO. 114

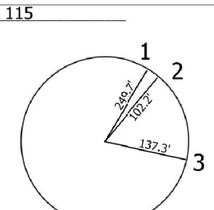


STAMPED: CP 114

1) FENCE CORNER
2) FENCE
3) SIGN, NO PARKING
4) EDGE OF ASPHALT
5) N/A

POINT 114
NORTHING = 1046191.6656
EASTING = 878012.6494
ELEV. 668.244

PT. NO. 115

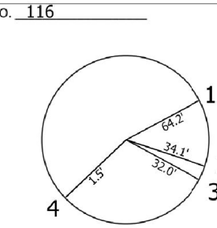


STAMPED: CP 115

1) AREA INLET, SE CORNER OF GRATE
2) HANDHOLE, NW CORNER
3) FIRE HYDRANT
4) N/A
5) N/A

POINT 115
NORTHING = 1051666.3342
EASTING = 875639.7467
ELEV. 521.918

PT. NO. 116

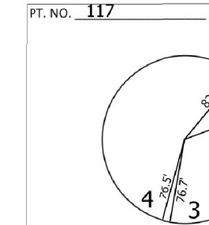


STAMPED: CP 116

1) UTILITY POLE
2) GUY ANCHOR
3) UTILITY POLE
4) EDGE OF ASPHALT
5) N/A

POINT 116
NORTHING = 1047321.5888
EASTING = 877334.4485
ELEV. 625.335

PT. NO. 117



STAMPED: CP 117

1) MANHOLE, CENTER TELEPHONE
2) MANHOLE, CENTER
3) STOP SIGN
4) SIGN, WELBA AVE. / FLORISSANT RD.
5) N/A

POINT 117
NORTHING = 1054419.9969
EASTING = 876844.3783
ELEV. 506.584

NOT TO SCALE

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STATE OF MISSOURI
JAMIE F. RANA
NUMBER PE-2005001034
PROFESSIONAL ENGINEER
Jamie F. Rana
01/25/2024 10:50:01 AM
JAMIE F. RANA - CIVIL
MO-PE-2005001034

DATE PREPARED
1/24/2024

ROUTE	STATE
N	MO
DISTRICT	SHEET NO.
SL	24

COUNTY
ST LOUIS

JOB NO.
J6S3599

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)

REFERENCE POINTS
RTE N

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, MULTIPY 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 (GROUND)
HORIZONTAL DATUM	NAD 83 (2011) EPOCH 2010.0
VERTICAL DATUM	NAVD 88: GNSS DERIVED
GEOID MODEL	GEOID18
ELEVATIONS DETERMINED BY	AVERAGED GNSS OBSREVATIONS
PROJECT PROJECTION FACTOR	1.00008780

REFERENCE CONTROL INFORMATION

COORDINATE SYSTEM	MO COORDINATE SYSTEM OF 1983
CONTROL STATION	MISSOURI CORS
DESIGNATION	MODOT BELLFONT CORS ARP
CORS_ID	MOOF
PID	DN6075
LATITUDE	N 38°45′ 51.51915″
LONGITUDE	W 90°14′ 47.69248″
NORTHING (M)	325298.422
EASTING (M)	272023.946
ZONE	EAST
PROJECT AVERAGE GRID FACTOR	0.9999122

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 #100
N 1044695.8692 X 0.9999122 = N 1044604.1449
E 879667.6096 X 0.9999122 = E 879590.3747

LINEAR UNIT CONVERSION

1 METER = 3.280833333 US SURVEY FEET (USFT)

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COORDINATE POINT LISTING 1 OF 2

SHEET NO	STATION	LOCATION	OFFSET (USFT)	MODIFIED STATE PLANE (GROUND) NORTHING (US SURVEY FT)	EASTING (US SURVEY FT)	ELEVATION (US SURVEY FT)	DESCRIPTION	GPK POINT ID
ALIGNMENT ExBL_R†N7 – PROJECT CONTROL POINTS								
4	158+70.00	ROUTE N		1055874.3630	876853.3665		POT – BEGIN PROJECT/ALIGNMENT	
4	169+40.18	ROUTE N		1054804.7461	876828.7545		TS – EQUATION	
4	169+39.90	ROUTE N					BACK	
4	169+40.18	ROUTE N					AHEAD	
5	171+40.18	ROUTE N		1054604.9342	876820.6659		SC	
5	174+40.29	ROUTE N		1054321.0218	876799.2279		PI	
5	177+05.46	ROUTE N		1054055.7077	876695.9117		CS	
6	179+05.46	ROUTE N		1053872.0084	876616.8875		ST	
7	188+11.15	ROUTE N		1053047.2709	876244.9117		PI/POT – EQUATION	
7	188+10.20	ROUTE N					BACK	
7	188+11.15	ROUTE N					AHEAD	
7	191+94.87	ROUTE N		1052697.4824	876087.1489		PI	
8	197+13.89	ROUTE N		1052228.4259	875864.9603		PC	
8	199+81.09	ROUTE N		1051986.9494	875750.5746		PI	
9	202+40.63	ROUTE N		1051720.6993	875728.0785		PT – EQUATION	
9	202+42.56	ROUTE N					BACK	
9	202+40.63	ROUTE N					AHEAD	
10	214+41.71	ROUTE N		1050523.8794	875626.9559		PC	
11	219+80.68	ROUTE N		1049986.8263	875581.5789		PI	
12	224+83.19	ROUTE N		1049527.5113	875863.5627		PT – END OF ALIGNMENT INFO	
ALIGNMENT ExBL_R†N8 – PROJECT CONTROL POINTS								
10	208+29.89	ROUTE N		1051217.4017	875387.9354		ST – BEGINNING OF ALIGNMENT INFO	
10	210+29.89	ROUTE N		1051033.9670	875308.4558		SC	
11	215+50.48	ROUTE N		1050544.0355	875132.4525		PI	
11	219+95.49	ROUTE N		1050109.0614	875418.4726		CS – EQUATION	
11	219+95.49	ROUTE N					BACK	
11	219+95.04	ROUTE N					AHEAD	
11	221+95.04	ROUTE N		1049949.3841	875538.7657		ST	
12	224+76.41	ROUTE N		1049734.5880	875711.6210		TS – EQUATION	
12	224+70.75	ROUTE N					BACK	
12	224+76.41	ROUTE N					AHEAD	
12	226+26.41	ROUTE N		1049616.1198	875803.5983		SC	
12	229+49.38	ROUTE N		1049354.2589	875993.6300		PI	
12	226+26.41	ROUTE N		1049616.1198	875803.5983		SC	
12	229+49.38	ROUTE N		1049354.2589	875993.6369		PI	
12	232+61.72	ROUTE N		1049036.6181	876051.0408		CS – EQUATION	
12	232+61.72	ROUTE N					BACK	
12	232+62.66	ROUTE N					AHEAD	
13	234+12.66	ROUTE N		1048888.2525	876072.9994		ST	
13	235+00.36	ROUTE N		1048795.8147	876085.0363		POT1 – EQUATION	
13	235+05.88	ROUTE N					BACK	
13	235+00.36	ROUTE N					AHEAD	
13	235+84.00	ROUTE N		1048712.8749	876095.8365		PC	
14	239+70.96	ROUTE N		1048329.1542	876145.8031		PI	
14	243+18.17	ROUTE N		1048091.8186	876451.4338		PT	
14	244+16.24	ROUTE N		1048031.9981	876528.4680		POT1 – EQUATION	
14	244+15.71	ROUTE N					BACK	
14	244+16.24	ROUTE N					AHEAD	
14	244+53.00	ROUTE N		1048009.4519	876557.5022		PC	
14	246+34.08	ROUTE N		1047898.3878	876700.5258		PI	

STATE OF MISSOURI
JAMIE F. RANA
NUMBER PE-2005001034
PROFESSIONAL ENGINEER
Jamie F. Rana
(01:25/2024 11:02:11 AM
JAMIE F. RANA - CIVIL
MO-PE-2005001034

DATE PREPARED
1/24/2024

ROUTE	STATE
N	MO
DISTRICT	SHEET NO.
STL	25

COUNTY
ST. LOUIS

JOB NO.
J6S3599

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)

COORDINATE POINTS
1 OF 2
RTE N

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, MULTIPY 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 (GROUND)
HORIZONTAL DATUM	NAD 83 (2011) EPOCH 2010.0
VERTICAL DATUM	NAVD 88: GNSS DERIVED
GEOID MODEL	GEOID18
ELEVATIONS DETERMINED BY	AVERAGED GNSS OBSREVATIONS
PROJECT PROJECTION FACTOR	1.00008780

REFERENCE CONTROL INFORMATION

COORDINATE SYSTEM	MO COORDINATE SYSTEM OF 1983
CONTROL STATION	MISSOURI CORS
DESIGNATION	MODOT BELLFONT CORS ARP
CORS_ID	MOOF
PID	DN6075
LATITUDE	N 38°45′ 51.51915″
LONGITUDE	W 90°14′ 47.69248″
NORTHING (M)	325298.422
EASTING (M)	272023.946
ZONE	EAST
PROJECT AVERAGE GRID FACTOR	0.9999122

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 #100
N 1044695.8692 X 0.9999122 = N 1044604.1449
E 879667.6096 X 0.9999122 = E 879590.3747

LINEAR UNIT CONVERSION

1 METER = 3.280833333 US SURVEY FEET (USFT)

COORDINATE POINT LISTING 2 OF 2

SHEET NO	STATION	LOCATION	OFFSET (USFT)	MODIFIED STATE PLANE (GROUND) NORTHING (US SURVEY FT)	EASTING (US SURVEY FT)	ELEVATION (US SURVEY FT)	DESCRIPTION	GPK POINT ID
ALIGNMENT ExBL_R+N8 - PROJECT CONTROL POINTS								
15	248+14.68	ROUTE N		1047770.1992	876828.4272		PT - EQUATION	
15	248+14.68	ROUTE N					BACK	
15	248+14.62	ROUTE N					AHEAD	
15	250+99.24	ROUTE N		1047568.7170	877029.4582		PI	
16	254+65.75	ROUTE N		1047315.2620	877292.3549		TS - EQUATION	
16	254+64.42	ROUTE N					BACK	
16	254+65.75	ROUTE N					AHEAD	
16	256+15.75	ROUTE N		1047207.5033	877396.5959		SC	
16	256+49.87	ROUTE N		1047181.3894	877418.5489		PI	
16	256+81.16	ROUTE N		1047153.3085	877437.9224		PCC/CS - EQUATION	
16	256+83.93	ROUTE N					BACK	
16	256.81.16	ROUTE N					AHEAD	
16	258+31.16	ROUTE N		1047024.2675	877514.2540		ST - EQUATION	
16	258+31.16	ROUTE N					BACK	
16	258+32.17	ROUTE N					AHEAD	
16	260+92.21	ROUTE N		1046795.9750	877638.7613		PI	
17	267+54.27	ROUTE N		1046216.9534	877960.6933		POT1 - EQUATION	
17	267+54.71	ROUTE N					BACK	
17	267+54.27	ROUTE N					AHEAD	
18	274+78.72	ROUTE N		1045583.7852	878312.7304		PC	
18	275+30.89	ROUTE N		1045538.1942	878338.0787		PI	
18	275+79.57	ROUTE N		1045486.4237	878331.6847		PT	
18	276+55.00	ROUTE N		1045411.5644	878322.4392		POT1 - END OF ALIGNMENT INFO	

DISCLAIMER
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STATE OF MISSOURI
JAMIE F. RANA
NUMBER PE-2005001034
PROFESSIONAL ENGINEER
Jamie F. Rana
01/25/2024 3:25:46 PM
JAMIE F. RANA - CIVIL
MO-PE-2005001034

DATE PREPARED: 1/24/2024
ROUTE: N | STATE: MO
DISTRICT: STL | SHEET NO.: 26
COUNTY: ST. LOUIS
JOB NO.: J6S3599
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)

COORDINATE POINTS
2 OF 2
RTE N

PARCEL #1, #2, AND #3 ARE VOID. NO PARCELS WITH THESE IDs ARE INCLUDED WITHIN PLANS

NOTE: NO ACQUISITIONS TO BE MADE ON THIS SHEET

DISCLAIMER

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N/F LION PETROLEUM, INC. 20608/219 1210 S FLORISSANT RD. PB. 59, PG. 95

LOT 6

N/F LION PETROLEUM, INC. 20608/219 1210 S FLORISSANT RD.

LOT 1 N/F BEAGLE & SHEPHERD, LLC. 23536/2467 1300 S FLORISSANT RD.

N/F DAVID EVERSGERD AND MIMI FOWLER 12127/1669 BLOCK 1 HOME CREST 1302 S FLORISSANT RD. PB. 17, PG. 50

LOT 2 N/F ANDRE' C. COFFER 24898/356 1304 S FLORISSANT RD.

N/F LWFC, LLC. 21253/663 1306 S FLORISSANT RD

LOT 3 N/F LWFC, LLC. 1308 S FLORISSANT RD.

N/F MINDY J. SHAPIRO 18557/1545 1310 S FLORISSANT RD.

N/F HERBERT D. AND JOELLEN SULSER, H/W 3378/527 1312 S FLORISSANT RD.

LOT 4 N/F CITY OF COOL VALLEY 21825/517 1314 S FLORISSANT RD.

LOT 5 N/F JAMES MANSELL TRUSTEE 14482/1167 1316 S FLORISSANT RD.

BLOCK 1 HOME CREST PB. 17, PG. 50

LOT 6

FAMILY DOLLAR

LOT 7 N/F FD COOL VALLEY MISSOURI SOUTH FLORISSANT ROAD, LLC 20306/3754 1326 S FLORISSANT RD.

RTE N SURVEY ℄ PI 177+72.14 Ls 200.00' Ys 3.49' Xs 199.95' LT 133.35' ST 66.68'

MATCHLINE RTE. N SURVEY ℄ STA. 177+75

MATCHLINE RTE. N SURVEY ℄ STA. 185+15

180

185

EXIST R/W

EXIST R/W

EXIST R/W

EXIST. 5' P.D.E.

ST STA 179+05.46

RTE N SURVEY ℄

S 24° 16' 35" W

MISSOURI STATE ROUTE N (A.K.A. FLORISSANT ROAD)

EXIST R/W

EXIST. 35' P.D.E.

EXIST R/W

COOL VALLEY SCHOOL ENTRANCE

N/F FERGUSON R-2 REORGANIZED SCHOOL DISTRICT 1351 S. FLORISSNAT RD.

LOT 2C N/F CALVERT'S EXPRESS REAL ESTATE CO., LLC. 23360/2606 1401 S FLORISSANT RD.

SCALE

0 30 60 90

LEGEND

- EXIST. ROW (NORMAL ACCESS)
- PERM. SIDEWALK EASEMENT (PSE)
- TEMP. CONSTRUCTION EASEMENT (TCE)
- PERM. DRAINAGE EASEMENT (PDE)

STATE OF MISSOURI
JAMIE F. RANA
NUMBER PE-2005001034
PROFESSIONAL ENGINEER
Jamie F. Rana
01/25/2024 3:32:36 PM
JAMIE F. RANA - CIVIL
MO-PE-2005001034

DATE PREPARED 1/24/2024

ROUTE	STATE
N	MO
DISTRICT	SHEET NO.
SL	27

COUNTY ST. LOUIS

JOB NO. J6S3599

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

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)

RIGHT OF WAY PLAN SHEET

LEGEND

- EXIST. ROW (NORMAL ACCESS)
- PERM. SIDEWALK EASEMENT (PSE)
- TEMP. CONSTRUCTION EASEMENT (TCE)
- PERM. DRAINAGE EASEMENT (PDE)

SCALE

0 30 60 90

NOTE: FOR PROPERTIES WITH NO LISTED PARCEL #, NO ACQUISITION TO BE MADE.

DISCLAIMER
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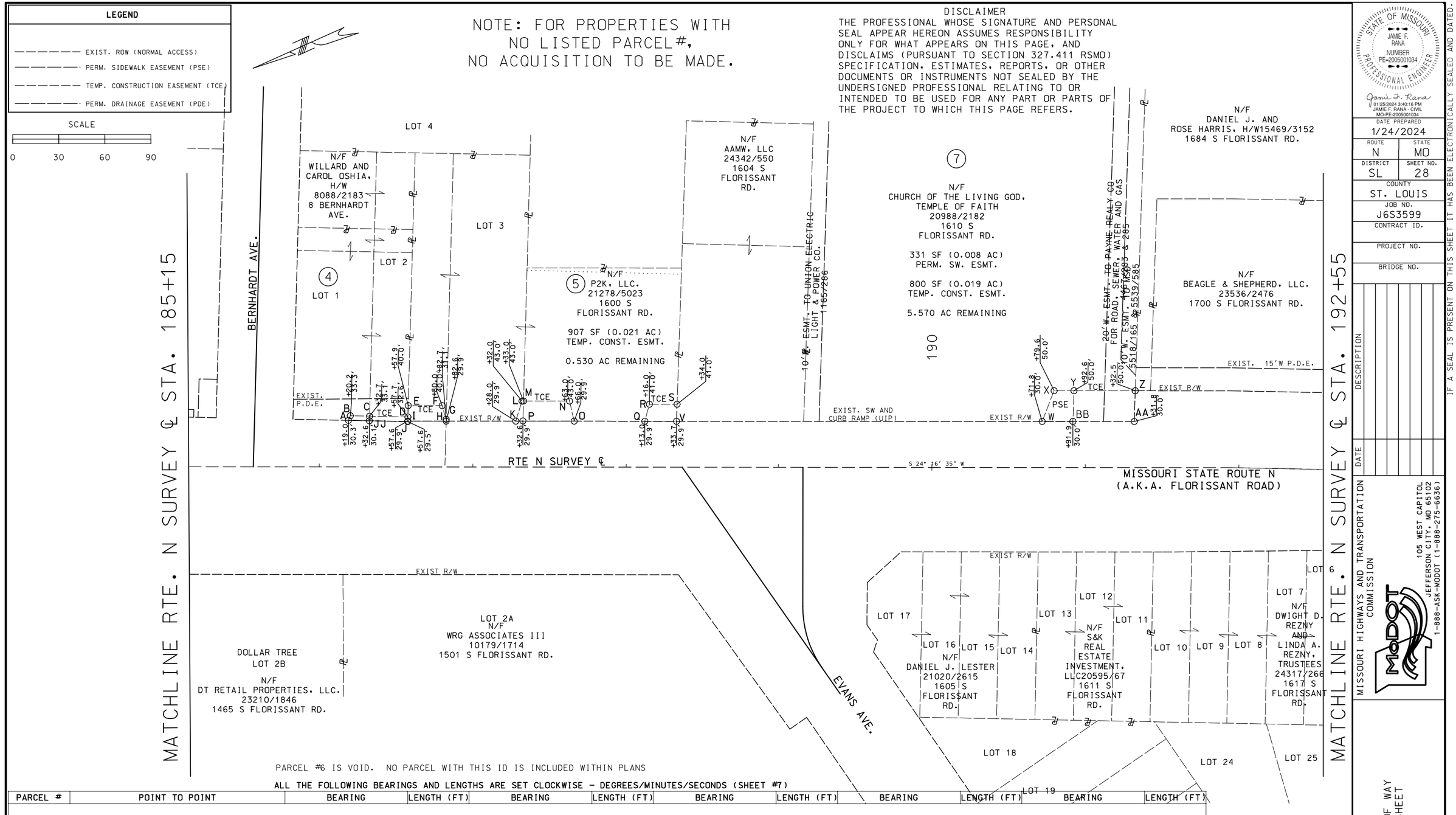

PARCEL #6 IS VOID. NO PARCEL WITH THIS ID IS INCLUDED WITHIN PLANS

ALL THE FOLLOWING BEARINGS AND LENGTHS ARE SET CLOCKWISE – DEGREES/MINUTES/SECONDS (SHEET #7)

PARCEL #	POINT TO POINT	BEARING	LENGTH (FT)	BEARING	LENGTH (FT)	BEARING	LENGTH (FT)	BEARING	LENGTH (FT)	BEARING	LENGTH (FT)
4	A–B, B–C, C–D, D–I	S43°16′57″E	3.220	S25°22′26″W	12.463	S25°22′26″W	25.000	S64°12′34″E	2.693		
4	I–J, J–JJ, JJ–A	S64°12′34″E	0.307	N25°22′26″W	25.000	N25°22′26″W	13.614				
5	I–E, E–F, F–G, G–H, H–I	S64°12′34″E	10.117	S24°16′35″W	22.112	N82°16′21″W	9.334	N64°12′34″W	1.161	N24°15′52″E	25.007
5	K–L, L–M, M–P, P–K	S48°44′9″E	13.693	S24°16′35″W	0.988	N64°12′34″W	13.102	N24°18′12″E	4.643		
5	P–M, M–N, N–O, O–P	S64°12′34″E	13.102	S24°16′35″W	30.012	N78°37′21″W	13.429	N24°15′52″E	33.356		
5	Q–R, R–S, S–V, V–Q	S50°34′28″E	11.480	S24°16′35″W	18.015	N63°52′49″W	11.082	N24°15′52″E	20.659		
7	W–X, X–Y, Y–BB, BB–W	S44°25′50″E	21.493	S24°16′35″W	12.938	N63°46′38″W	20.033	N24°15′52″E	20.062		
7	BB–Y, Y–Z, Z–AA, AA–BB	S63°46′38″E	20.033	S24°16′35″W	39.907	N63°52′49″W	20.024	N24°15′52″E	39.943		

STATE OF MISSOURI
JAMIE F. RANA
NUMBER PE-2005001034
PROFESSIONAL ENGINEER
Jamie F. Rana
01/25/2024 3:40:16 PM
JAMIE F. RANA - CIVIL
MO-PE-2005001034

DATE PREPARED: 1/24/2024

ROUTE	STATE
N	MO
DISTRICT	SHEET NO.
SL	28

COUNTY: ST. LOUIS
JOB NO.: J6S3599
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)

RIGHT OF WAY PLAN SHEET

LEGEND

- EXIST. ROW (NORMAL ACCESS)
- PERM. SIDEWALK EASEMENT (PSE)
- TEMP. CONSTRUCTION EASEMENT (TCE)
- PERM. DRAINAGE EASEMENT (PDE)

SCALE

0 30 60 90

NOTE: FOR PROPERTIES WITH NO LISTED PARCEL#, NO ACQUISITION TO BE MADE.

DISCLAIMER
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STATE OF MISSOURI
JAMIE F. RANA
NUMBER PE-2005001034
PROFESSIONAL ENGINEER
Jami F. Rana
01/25/2024 3:41:19 PM
JAMIE F. RANA - CIVIL
MO-PE-2005001034

DATE PREPARED 1/24/2024

ROUTE	STATE
N	MO
DISTRICT	SHEET NO.
SL	29

COUNTY ST. LOUIS
JOB NO. J6S3599
CONTRACT ID.
PROJECT NO.
BRIDGE NO.

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

MATCHLINE RTE. N CONST. ℄ STA. 232+10

N/F THE CURATORS OF THE UNIVERSITY OF MISSOURI 12481/859 8181 FLORISSANT RD.

RTE N SURVEY ℄ STA. 222+20

NORMANDY TRACE DR.

COOL VALLEY DRIVE (50'W.)

RTE N SURVEY ℄ STA 224+83.19 (0.75'LT) RELOC RTE. N=
POC STA 227+33.39 EXIST. RTE. N

RTE N SURVEY ℄ STA 226+26.41

MISSOURI STATE ROUTE N (A.K.A. FLORISSANT ROAD)

RTE N CONST. ℄

OLD RTE N ℄

EQUATION: STA 224+70.75 BK = STA 224+76.41 AHD

LOT 4

9

N/F THE CURATORS OF THE UNIVERSITY OF MISSOURI 12343/2014 8115 FLORISSANT RD.

APPROXIMATE LOCATION 10'W. SEWER ESMT. 3260/95

RTE N CONST. ℄
TOTAL PI 229+54.38
SC 226+26.41
CS 232+61.72
TOTAL Δ 31° 24' 21.5" (RT)
D 3° 59' 57.0"
Lc 635.31'
Ls 150.00'
Ts 477.97'
R 1,432.69'
Θs 2° 59' 57.8"
Xs 149.96'
Ys 2.62'

RTE N SURVEY ℄
PI 225+76.42
Ls 150.00'
Ys 2.62'
Xs 149.96'
LT 100.01'
ST 50.01'

N/F CHISHTIA PROPERTIES, LLC 21060/1360 4301 WALKER LN.

EXIST. 55'W P.D.E.

EXIST. 35'W P.D.E.

PDE

+64.64 85.0'

+28.79 85.0'

+66.63 50.0'

+28.79 50.0'

E F G D

35'W. DRAINAGE ESMT. TO THE STATE OF MO. 2608/44

55'W. DRAINAGE ESMT. TO THE STATE OF MO. 2608/44

230

EXIST. R/W

EXIST. R/W

EXIST. R/W

MATCHLINE RTE. N SURVEY ℄ STA. 222+20

8

A B C H

+05.42 57.1'

+17.21 97.5'

+48.51 63.5'

+45.56 88.9'

PDE

30'W. DRAINAGE ESMT. TO THE STATE OF MO. 2570/371

30'W. DRAINAGE ESMT. TO THE STATE OF MO. 2529/502

EXIST. 30'W P.D.E.

LOT 1 LOT 2 LOT 3 LOT 4 LOT 5 LOT 6 LOT 7

LOT 8 N/F THE CURATORS OF THE UNIVERSITY OF MISSOURI 15915/2122 8214 FLORISSANT RD.

N/F UNIVERSITY OF MISSOURI 14177/0008 8210 FLORISSANT RD.

N/F THE CURATORS OF THE UNIVERSITY OF MISSOURI 10853/108 8200 FLORISSANT RD.

MACLARE DRIVE (40'W.) VACATED BY 862/374

LOT 33 LOT 32 LOT 31 LOT 30 LOT 29 LOT 28 LOT 27

N/F THE CURATORS OF THE UNIVERSITY OF MISSOURI 18115/1089 8160 FLORISSANT RD.

LOT 26 LOT 25 LOT 24 LOT 23

LOT 21 BLOCK 2 HOLLYWOOD PARK PB. 21 PG. 12

LOT 22

N/F THE CURATORS OF THE UNIVERSITY OF MISSOURI 10580/893 8030 FLORISSANT RD.

LOT 20 LOT 19 LOT 18 LOT 17 LOT 16 LOT 15 LOT 14 LOT 13 LOT 12

N/F THE CURATORS OF THE UNIVERSITY OF MISSOURI 10863/552 8002 FLORISSANT RD.

ALL THE FOLLOWING BEARINGS AND LENGTHS ARE SET CLOCKWISE - DEGREES/MINUTES/SECONDS (SHEET #12)

PARCEL #	POINT TO POINT	BEARING	LENGTH (FT)	BEARING	LENGTH (FT)	BEARING	LENGTH (FT)	BEARING	LENGTH (FT)
8	A-B, B-H, H-C, C-A	N50°56'44"E	42.213	N38°49'30"W	31.186	CH S38°16'13"E	110.644	S21°52'20"E	148.444
9	D-E, E-F, F-G, G-D	N56°19'52"E	35.062	R=1517.69	67.955	S62°16'4"W	35.000	R=1482.69	64.326

DESCRIPTION | DATE

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

RIGHT OF WAY PLAN SHEET

ALL THE FOLLOWING BEARINGS AND LENGTHS ARE SET CLOCKWISE - DEGREES/MINUTES/SECONDS (SHEET #13)

PARCEL #	POINT TO POINT	BEARING	LENGTH (FT)	BEARING	LENGTH (FT)	BEARING	LENGTH (FT)	BEARING	LENGTH (FT)	BEARING	LENGTH (FT)	BEARING	LENGTH (FT)	BEARING	LENGTH (FT)	BEARING	LENGTH (FT)
8	A-B, B-C, C-D, D-E, E-F, F-G, G-H, H-A	N82°18'11"E	5.000	CH - N7°30'41"W	CH - 45.393	N7°25'9"W	93.219	N7°25'9"W	19.382	R322.44	5.012	CH - S7°26'10"E	CH - 19.664	S7°25'9"E	93.219	CH - S7°30'41"E	CH - 45.417
8	J-K, K-L, L-J	N44°51'31"E	29.968	S83°47'44"W	27.088	CH - S17°32'43"	CH - 19.209										

PARCEL #10 & #11 ARE VOID. NO PARCEL WITH THIS ID ARE INCLUDED WITHIN PLANS

NOTE: FOR PROPERTIES WITH NO LISTED PARCEL#, NO ACQUISITION TO BE MADE.

MATCHLINE RTE. N CONST. ℄ STA. 232+10

MATCHLINE RTE. N CONST. ℄ STA. 239+50

RTE N CONST. ℄

EXIST. R/W

EXIST. 25'W P.D.E.

WALKER LN.

RTE N CONST. ℄
PI 233+11.73
Ls 150.00'
Ys 2.62'
Xs 149.96'
LT 100.01'
ST 50.01'

N/F
THE CURATORS
OF
THE UNIVERSITY
OF
MISSOURI

4306 WALKER LN.

N/F
THE CURATORS
OF
THE UNIVERSITY
OF
MISSOURI
12773/1919
7875 FLORISSANT RD.

N/F
THE CURATORS
OF
THE UNIVERSITY
OF
MISSOURI
16011/524
7855 FLORISSANT RD.

RTE N CONST. ℄
PI 239+70.96
PC 235+84.00
PT 243+18.17
Δ 44° 45' 00.0" (LT)
D 6° 05' 43.1"
L 734.17'
T 386.96'
R 940.00'

TED JONES BRIDGE
N/F
THE BI-STATE DEVELOPMENT AGENCY
(NORFOLK-SOUTHERN RIGHT OF WAY)
8542/700

LOT 11
LOT 10
LOT 9

CS STA 232+61.72
EQUATION:
STA 232+61.72 BK = STA 232+61.68 AH

ST STA 234+12.66

POT1 STA 235+00.36
EQUATION:
STA 235+00.36 BK = STA 235+00.88 AH

PC STA 235+84.00

235

S 7° 25' 09" E

LOT 11 LOT 10 LOT 9 LOT 8 LOT 7 LOT 5 LOT 4 LOT 3 LOT 2 LOT 1 LOT 6 (8)

A B H C G D F E

+67.0 50.0' | +67.0 55.0' | TCE | +12.66 50.0' & 55.0' | TCE | +00.36 AH 50.0' & 55.0' | +20.0 50.0' | +19.8 55.0'

OXEYE DR.

EXIST. R/W

LOT 9 LOT 8 LOT 7 (8) LOT 6 LOT 5 LOT 4 LOT 3 LOT 2 LOT 1

J K L

+65.4 53.1' | ESMT. TO MSD 5146/457 | PSE | +83.6 53.6' | +77.8 80.0'

APPROX. LOC. OF ESMT. 5235/117 (DOC. PARTIALLY ILLEGIBLE) TO MSD

APPROX. LOCATION OF 10' W. ESMT. TO LACLEDE GAS CO. 5222/194

10' W. ESMT. TO UNION ELECTRIC CO. 5158/153

10' W. ESMT. TO UNION ELECTRIC CO. 5174/232

10' W. ESMT. TO MSD 5146/457

N/F
THE CURATORS
OF
THE
UNIVERSITY
OF
MISSOURI
21497/670
8005
ARNOLD B

LOT A HOLLYWOOD PARK
PB. 21, PG. 12

ARNOLD B. GROBMAN DR.

LOT B HOLLYWOOD PARK
PB. 21, PG. 12

(PARCEL 2)

N/F
THE CURATORS
OF
THE UNIVERSITY
OF
MISSOURI
5863/442
(PARCEL 1)
8013 BELLERIVE DR.

THE CURATORS OF THE UNIVERSITY OF MISSOURI 5863/442 (PARCEL 1)

LEGEND

- EXIST. ROW (NORMAL ACCESS)
- PERM. SIDEWALK EASEMENT (PSE)
- TEMP. CONSTRUCTION EASEMENT (TCE)
- PERM. DRAINAGE EASEMENT (PDE)

SCALE
0 30 60 90

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.

STATE OF MISSOURI
JAMIE F. RANA
NUMBER PE-2005001034
PROFESSIONAL ENGINEER
Jamie F. Rana
01/25/2024 3:42:09 PM
JAMIE F. RANA - CIVIL
MO-PE-2005001034

DATE PREPARED
1/24/2024

ROUTE	STATE
N	MO
DISTRICT	SHEET NO.
SL	30

COUNTY
ST. LOUIS

JOB NO.
J6S3599

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)

RIGHT OF WAY
PLAN SHEET

LEGEND

- EXIST. ROW (NORMAL ACCESS)
- PERM. SIDEWALK EASEMENT (PSE)
- TEMP. CONSTRUCTION EASEMENT (TCE)
- PERM. DRAINAGE EASEMENT (PDE)

NOTE: FOR PROPERTIES WITH NO LISTED PARCEL#, NO ACQUISITION TO BE MADE.

DISCLAIMER
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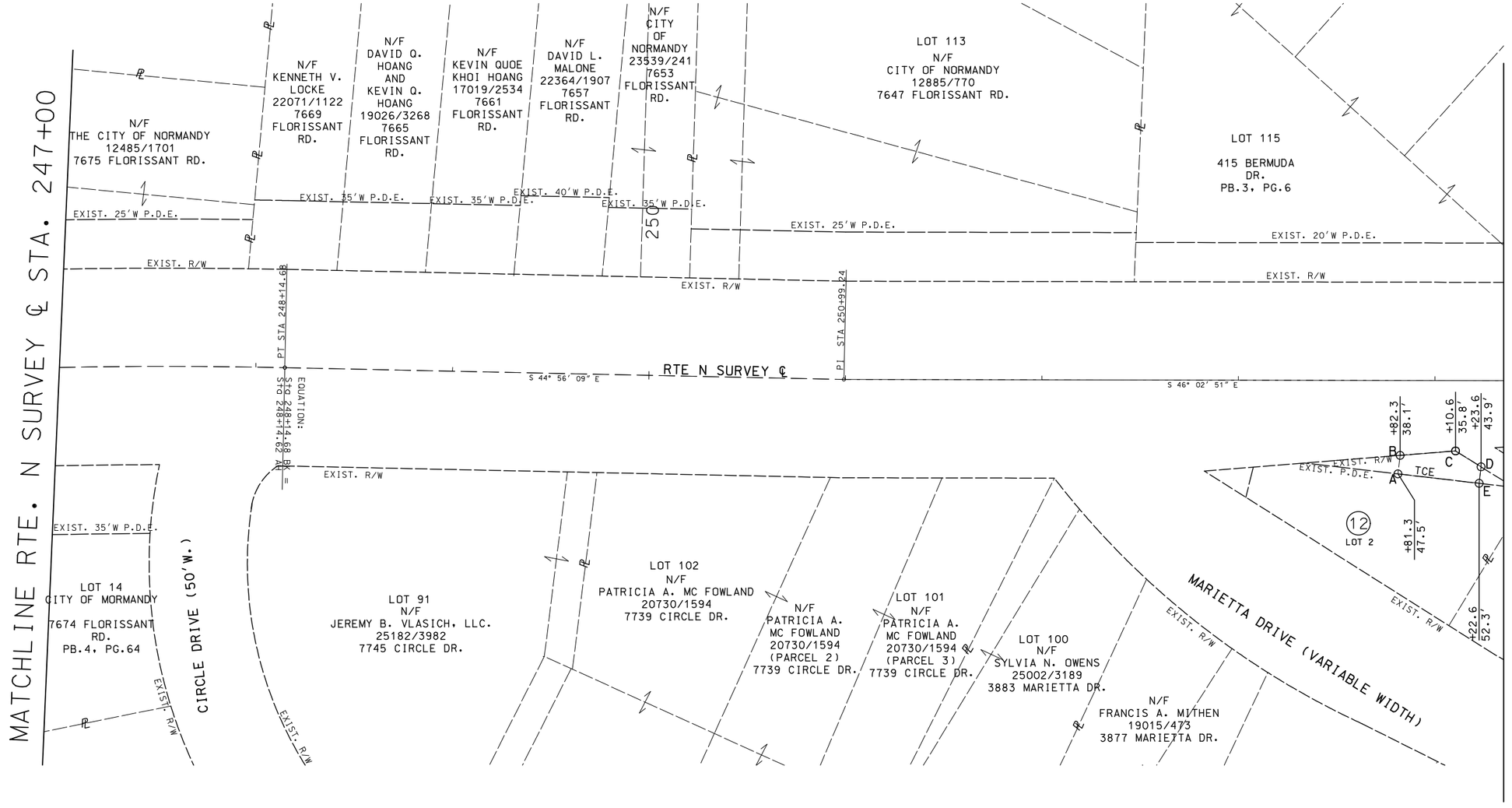

ALL THE FOLLOWING BEARINGS AND LENGTHS ARE SET CLOCKWISE – DEGREES/MINUTES/SECONDS (SHEET #15)

PARCEL #	POINT TO POINT	BEARING	LENGTH (FT)	BEARING	LENGTH (FT)	BEARING	LENGTH (FT)	BEARING	LENGTH (FT)	BEARING	LENGTH (FT)
12	A–B, B–C, C–D, D–E, E–A	S50°29' 3"W	9.465	N50°43' 58"W	28.342	N14°10" 42"W	15.285	N50°29' 3"E	8.437	S39°30' 57"E	41.615

SCALE
0 30 60 90

STATE OF MISSOURI
JAMIE F. RANA
NUMBER PE-2005001034
PROFESSIONAL ENGINEER
Jami F. Rana
01/25/2024 3:42:57 PM
JAMIE F. RANA - CIVIL
MO-PE-2005001034

DATE PREPARED
1/24/2024

ROUTE	STATE
N	MO
DISTRICT	SHEET NO.
SL	31

COUNTY
ST. LOUIS

JOB NO.
J6S3599

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)

RIGHT OF WAY PLAN SHEET

LEGEND

- EXIST. ROW (NORMAL ACCESS)
- PERM. SIDEWALK EASEMENT (PSE)
- TEMP. CONSTRUCTION EASEMENT (TCE)
- PERM. DRAINAGE EASEMENT (PDE)

NOTE: FOR PROPERTIES WITH NO LISTED PARCEL#, NO ACQUISITION TO BE MADE.

DISCLAIMER
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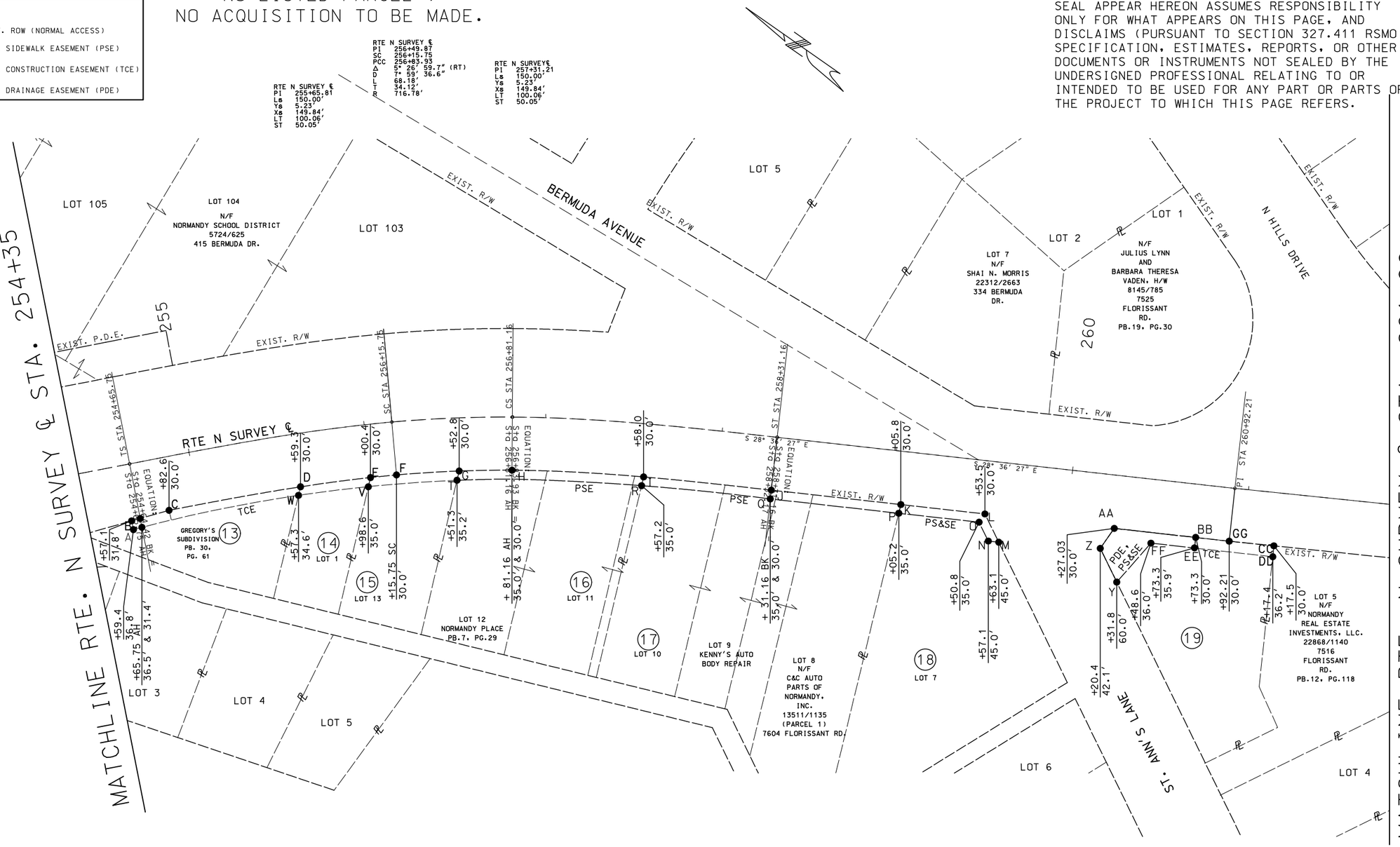

ALL THE FOLLOWING BEARINGS AND LENGTHS ARE SET CLOCKWISE - DEGREES/MINUTES/SECONDS (SHEET #16)

PARCEL #	POINT TO POINT	BEARING	LENGTH (FT)	BEARING	LENGTH (FT)	BEARING	LENGTH (FT)	BEARING	LENGTH (FT)	BEARING	LENGTH (FT)	BEARING	LENGTH (FT)	BEARING	Length (FT)
13	A-B, B-C, C-D, D-W, W-A	S43°57'9"W	5.011	S50°43'58"E	21.907	CH - S45°6'36"E	CH - 75.437	S68°39'56"W	4.964	R=842.47	95.241				
14	D-E, E-V, V-W, W-D	N68°39'56"E	4.964	CH - S42°32'41"E	CH - 39.857	S68°18'44"W	5.288	R=842.47	39.775						
15	V-E, E-F, F-G, G-T, T-V	N68°18'44"E	5.400	S40°38'41"E	14.726	CH - R=686.78	CH - 35.447	N68°6'31"E	5.417	R=842.47	50.149				
16	T-G, G-H, H-I, I-R, R-T	N68°6'31"E	5.417	R=686.78	29.880	CH - S32°2'54"E	CH - 74.389	S68°17'46"W	5.060	R=1412.69	73.265				
17	R-I, I-J, J-K, K-P, P-Q, Q-R	N68°17' 46"E	5.060	CH - S29°4'51"E	CH - 72.450	R=1412.69	73.067	S28°36'27"E	73.639	S68°39' 10"E	5.040	N28°36' 29"W	73.002		
18	P-K, K-L, L-M, M-N, N-O, O-P	N68°39' 10E	5.040	S28°36'27"E	47.725	S28°58' 20"W	17.770	N28°36' 27"W	5.923	N28°58' 20"E	11.846	N28°36' 27"W	45.615		
19	Z-AA, AA-BB, BB-EE, EE-FF, FF-Y, Y-Z	S89°58' 26"W	13.771	N28°36'27"W	46.243	N61°23' 33"E	6.000	S28°36' 27"E	24.726	S83°43' 31"E	29.257	S28°58' 20"W	21.214		
19	EE-BB, BB-GG, GG-CC, CC-DD, DD-EE	N61°23' 33"E	6.000	S28°36'27"E	19.05	S29°04'26"E	25.37	S60°58' 31"W	6.207	N28°36'27"W	44.463				

SCALE
0 30 60 90

STATE OF MISSOURI
JAMIE F. RANA
NUMBER PE-2005001034
PROFESSIONAL ENGINEER
Jamie F. Rana
01/25/2024 3:43:36 PM
JAMIE F. RANA - CIVIL
MO-PE-2005001034

DATE PREPARED
1/24/2024

ROUTE	STATE
N	MO
DISTRICT	SHEET NO.
SL	32

COUNTY
ST. LOUIS

JOB NO.
J6S3599

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)

RIGHT OF WAY PLAN SHEET

LEGEND

- EXIST. ROW (NORMAL ACCESS)
- PERM. SIDEWALK EASEMENT (PSE)
- TEMP. CONSTRUCTION EASEMENT (TCE)
- PERM. DRAINAGE EASEMENT (PDE)

NOTE: FOR PROPERTIES WITH NO LISTED PARCEL#, NO ACQUISITION TO BE MADE.

DISCLAIMER
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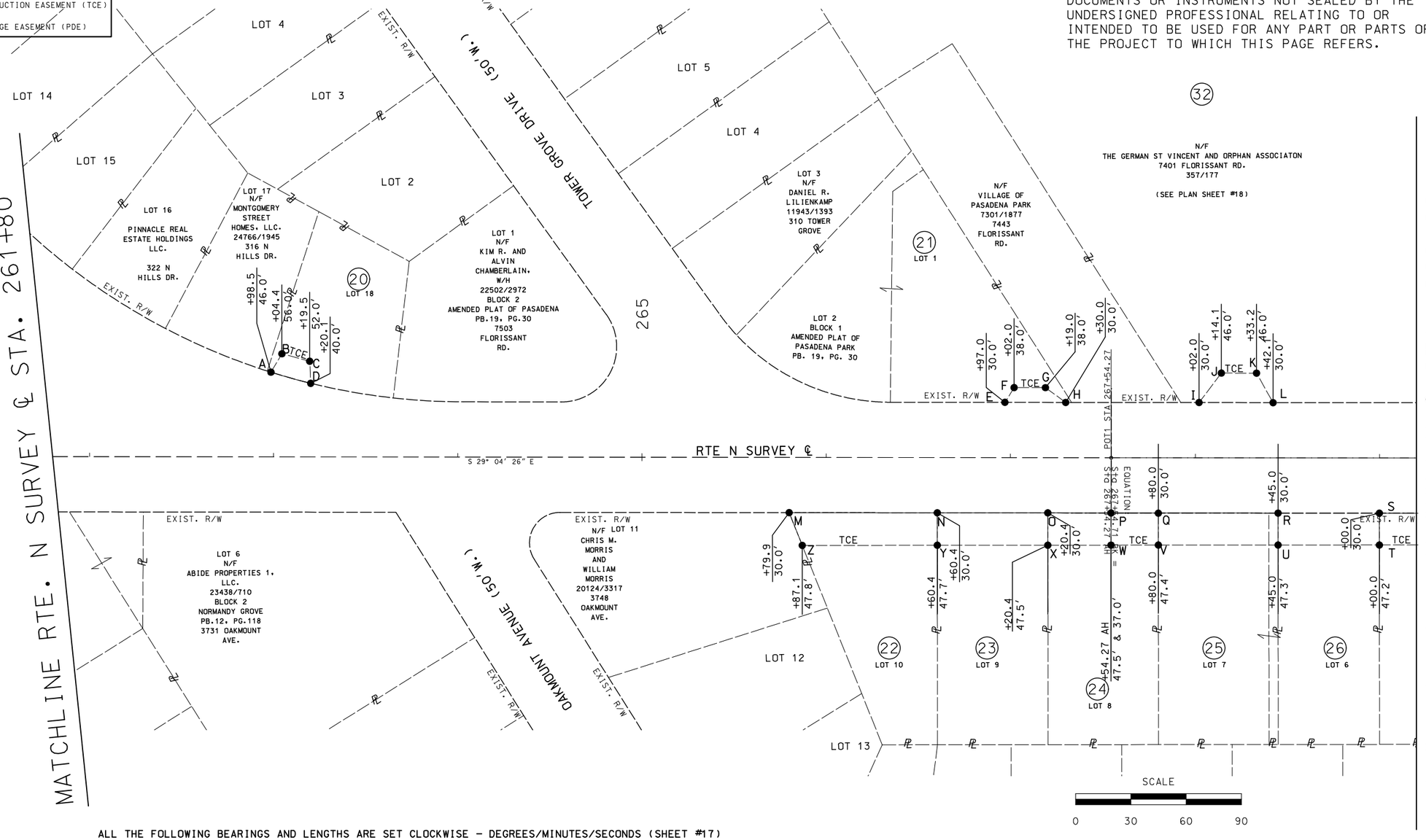

ALL THE FOLLOWING BEARINGS AND LENGTHS ARE SET CLOCKWISE - DEGREES/MINUTES/SECONDS (SHEET #17)

PARCEL #	POINT TO POINT	BEARING	LENGTH (FT)	BEARING	LENGTH (FT)	BEARING	LENGTH (FT)	BEARING	LENGTH (FT)	BEARING	LENGTH (FT)	BEARING	LENGTH (FT)
20	A-B, B-C, C-D, D-E	S88°14'29"E	11.646	S14°13'56"E	15.616	S58°23'12"W	12.012	R=350.08	22.418				
21	E-F, F-G, G-H, H-E	N87°3'0" W	9.436	N29°4'26"W	16.997	N6°56'30"E	13.605	S29°4'26"E	33.005				
22	M-N, N-Y, Y-Z, Z-M	S29°4'26"E	80.368	S60°49'34"W	17.648	S29°10'27"E	73.315	S39°1'29"W	19.159				
23	N-O, O-X, X-Y, Y-N	N29°4'26"W	60.077	S60°49'34"W	17.543	S29°12'28"E	60.014	S60°49'34"W	17.609				
24	O-P, P-Q, Q-V, V-W, W-X, X-O	S29°4'26"E	34.346	S29°4'26"E	25.653	S60°49'34"W	17.438	S29°10'27"E	25.679	S29°10'27"E	34.320	S60°49'34"W	17.543
25	Q-R, R-U, U-V, V-Q	S29°4'26"E	65.000	S60°49'34"W	17.324	S29°10'27"E	65.000	S60°49'34"W	17.438				
26	R-S, S-T, T-U, U-R	N29°4'26"E	55.000	S60°49'34"W	17.227	S29°10'27"E	55.000	S60°49'34"W	17.324				

STATE OF MISSOURI
JAMIE F. RANA
NUMBER PE-2005001034
PROFESSIONAL ENGINEER
Jamie F. Rana
01/25/2024 3:54:20 PM
JAMIE F. RANA - CIVIL
MO-PE-2005001034

DATE PREPARED
1/24/2024

ROUTE	STATE
N	MO
DISTRICT	SHEET NO.
SL	33

COUNTY
ST. LOUIS

JOB NO.
J6S3599

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)

RIGHT OF WAY PLAN SHEET

NOTE: FOR PROPERTIES WITH
NO LISTED PARCEL#,
NO ACQUISITION TO BE MADE.

DISCLAIMER
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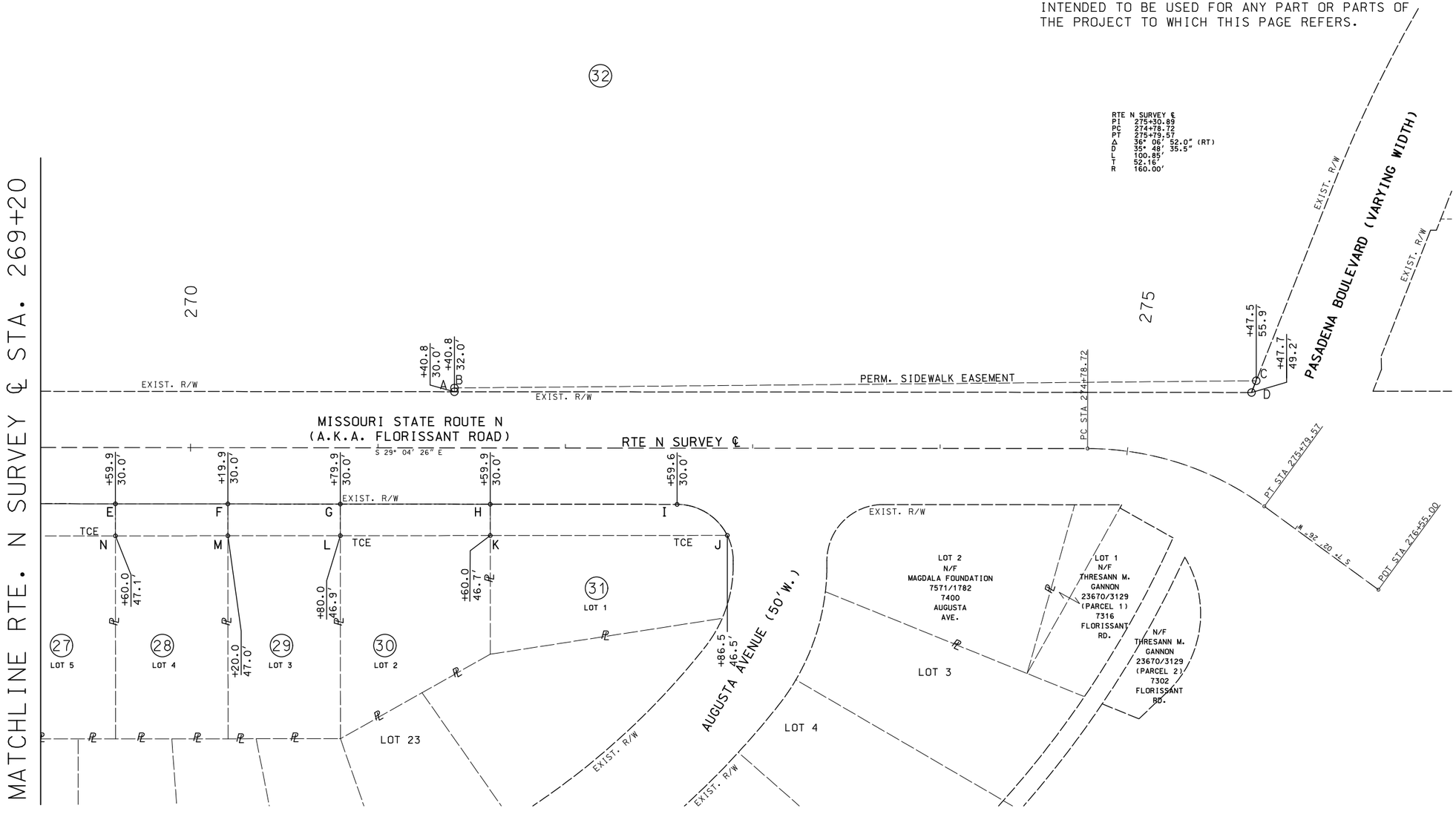


LEGEND

- EXIST. ROW (NORMAL ACCESS)
- PERM. SIDEWALK EASEMENT (PSE)
- TEMP. CONSTRUCTION EASEMENT (TCE)
- PERM. DRAINAGE EASEMENT (PDE)

SCALE

0 30 60 90

ALL THE FOLLOWING BEARINGS AND LENGTHS ARE SET CLOCKWISE – DEGREES/MINUTES/SECONDS (SHEET #18)

PARCEL #	POINT TO POINT	BEARING	LENGTH (FT)	BEARING	LENGTH (FT)	BEARING	LENGTH (FT)	BEARING	LENGTH (FT)
27	S-E, E-N, N-T, T-S	S29°4'26"E	60.000	S60°49'34"W	17.123	S29°10'27"E	60.000	N60°49'34"E	17.227
28	E-F, F-M, M-N, N-E	N29°4'26"E	60.000	S60°49'34"W	17.000	S29°11'26"E	60.000	S60°49'34"W	17.122
29	F-G, G-L, L-M, M-F	S29°4'26"E	60.000	S60°49'34"W	16.912	S29°9'27"E	60.000	S60°49'34"W	17.000
30	G-H, H-K, K-L, L-G	S29°4'26"E	80.000	S60°49'34"W	16.764	S29°10'47"E	80.000	S60°49'34"W	16.912
31	H-I, I-J, J-K, K-H	S29°4'26"E	99.719	R=30.00	33.177	S29°10'14"E	126.506	S60°49'34"W	16.764
32	I-J, J-K, K-L, L-I	S82°1'59"E	20.045	S29°4'36"E	19.080	S31°36' 32"W	18.351	N29°4'26"W	40.140
32	A-B, B-C, C-D, D-A	S60°52'15" W	2.000	S29°38'33"E	427.900	S82°24'55"W	6.714	N29°4"26"W	425.418

STATE OF MISSOURI
JAMIE F. RANA
NUMBER PE-2005001034
PROFESSIONAL ENGINEER
Jamie F. Rana
01/25/2024 3:56:48 PM
JAMIE F. RANA - CIVIL
MO-PE-2005001034

DATE PREPARED
1/24/2024

ROUTE	STATE
N	MO
DISTRICT	SHEET NO.
SL	34

COUNTY
ST. LOUIS

JOB NO.
J6S3599

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DATE	DESCRIPTION

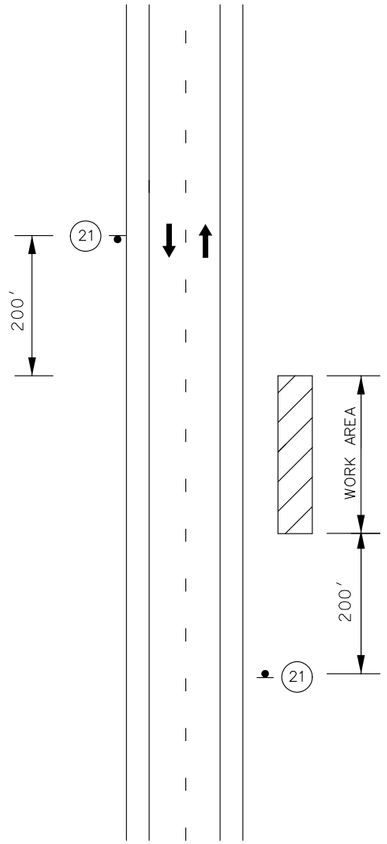
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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

RIGHT OF WAY
PLAN SHEET

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

SPEED	SIGN SPACING (ft.)		TAPER LENGTH (ft.)		OPTIONAL	CHANNELIZER SPACING (ft.)	
PERM. POSTED (MPH)	UN -DIVIDED (S)	DIVIDED (S)	SHOULDER (1) (T1)	LANE (2) (T2)	BUFFER LENGTH (ft) (B)	TAPERS	BUFFER/ WORK AREAS
0-35	200	200	-	-	-	-	-
40-45	350	500	-	-	-	-	-
50-55	500	1000	-	-	-	-	-
60-70	1000	SA-1000 SB-1500 SC-2640	-	-	-	-	-



SHOULDER WORK
WORK BEYOND THE SHOULDER
DIVIDED AND UNDIVIDED

DISCLAIMER
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NOTES:

ONLY APPLICABLE WHEN WORK IS WITHIN THE CLEAR ZONE.

ON MULTI-LANE, DIVIDED HIGHWAYS,SIGNS ADVISING OF THE SHOULDER WORK OR THE CONDITION OF THE SHOULDER SHOULD BE PLACED ONLY ON THE SIDE OF THE AFFECTED SHOULDER.

VEHICLE HAZARD WARNING SIGNALS SHALL NOT BE USED INSTEAD OF THE VEHICLE'S HIGH-INTENSITY ROTATING, FLASHING,OSCILLATING, OR STROBE LIGHTS.

TRAFFIC CONTROL LEGEND

SIGN (SINGLE SIDED)

WORK AREA

STATE OF MISSOURI
JAMIE F. RANA
NUMBER PE-2005001034
PROFESSIONAL ENGINEER
Jamie F. Rana
01/27/2024 11:22:33 AM
JAMIE F. RANA - CIVIL
MO-PE-2005001034
DATE PREPARED
1/24/2024

ROUTE	STATE
N	MO
DISTRICT	SHEET NO.
SL	35

COUNTY
ST. LOUIS

JOB NO.
J6S3599

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

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

REV.	DESCRIPTION	DATE

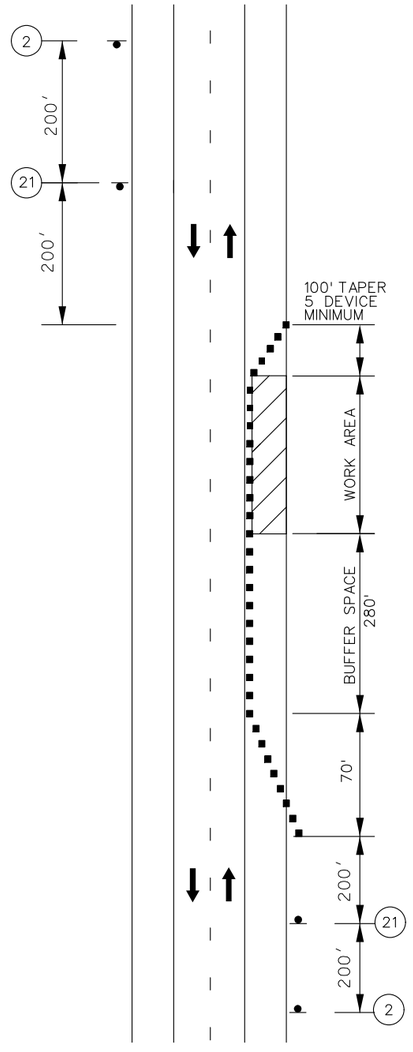
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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

TRAFFIC CONTROL SHEET
WORK BEYOND THE SHOULDER

SPEED	SIGN SPACING (ft.)		TAPER LENGTH (ft.)		OPTIONAL	CHANNELIZER SPACING (ft.)	
PERM. POSTED (MPH)	UN -DIVIDED (S)	DIVIDED (S)	SHOULDER (1) (T1)	LANE (2) (T2)	BUFFER LENGTH (ft) (B)	TAPERS	BUFFER/ WORK AREAS
0-35	200	200	70	245	280	35	40
40-45	350	500	150	540	400	40	80
50-55	500	1000	185	660	560	50	80
60-70	1000	SA-1000 SB-1500 SC-2640	235	840	840	60	120

1 Shoulder taper length based on 10 ft. (standard shoulder width) offset.
2. Lane taper length based on 12 ft. (standard lane width) offset.



WORK ON THE SHOULDER
ON DIVIDED AND UNDIVIDED
HIGHWAYS

NOT TO SCALE

TRAFFIC CONTROL LEGEND

- SIGN (SINGLE SIDED)
- CHANNELIZER (TRIM-LINE)
- WORK AREA

DISCLAIMER

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NOTES:

PROVIDE SIGNS ON LEFT AND RIGHT SIDES OF DIVIDED HIGHWAYS.

ROAD WORK AHEAD SIGN NOT NEEDED IF SHOULDER WORK IS LOCATED WITHIN THE LIMITS OF AN ACTIVITY AREA WHERE ANOTHER ROAD WORK AHEAD SIGN IS ALREADY USED.

VEHICLE HAZARD WARNING SIGNALS SHALL NOT BE USED INSTEAD OF THE VEHICLE'S ROTATING LIGHTS OR STROBE LIGHTS.

WHEN PAVED SHOULDERS HAVING A WIDTH OF 8 FEET OR MORE ARE CLOSED, AT LEAST ONE ADVANCE WARNING SIGN SHALL BE USED. IN ADDITION, CHANNELIZING DEVICES SHALL BE USED TO CLOSE THE SHOULDER IN ADVANCE TO DELINEATE THE BEGINNING OF THE WORK SPACE AND DIRECT VEHICULAR TRAFFIC TO REMAIN WITHIN THE TRAVELED WAY.

STATE OF MISSOURI
JAMIE F. RANA
NUMBER PE-2005001034
PROFESSIONAL ENGINEER
Jamie F. Rana
01/27/2024 11:22:52 AM
JAMIE F. RANA - CIVIL
MO-PE-2005001034

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

DATE PREPARED: 1/24/2024

ROUTE	STATE
N	MO
DISTRICT	SHEET NO.
SL	36

COUNTY: ST. LOUIS
JOB NO.: J6S3599
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)

TRAFFIC CONTROL SHEET
WORK ON THE SHOULDER

REV.

(1) ROAD CLOSED SIGN SHALL BE PLACED 7-10 FEET BEHIND THE BARRICADES AND AT A SIGN HEIGHT APPROPRIATE TO THE ROADWAY. ONE BARRICADE IS REQUIRED TO COMPLETELY CLOSE 8 FEET OF PAVEMENT. PAVED SHOULDERS SHALL BE INCLUDED IN THE AREA CLOSED.

(2) THE 'ROAD CLOSED TO THRU TRAFFIC SIGN' SHOULD BE LOCATED AT/NEAR ROUTE 115, OR AS APPROVED BY THE ENGINEER. SEE DETOUR SIGNING FOR SIGN #82 WHEN ST. ANN'S LANE IS CLOSED FOR RECONSTRUCTION. SIGN #82 TO BE PLACED AT AUGUSTA AVE. INTERSECTION. BARRICADES MAY BE USED AND OFFSET TO FACILITATE ACCESS FOR WORK VEHICLES, LOCAL TRAFFIC, ETC.

TRAFFIC CONTROL SHOULD BE REMOVED AS SOON AS PRACTICAL AFTER CONDITION FOR CLOSURE NO LONGER EXISTS.

ADDITIONAL WARNING SIGNS SHOULD BE ERECTED AT EACH INTERSECTION WITHIN THE WORK ZONE.

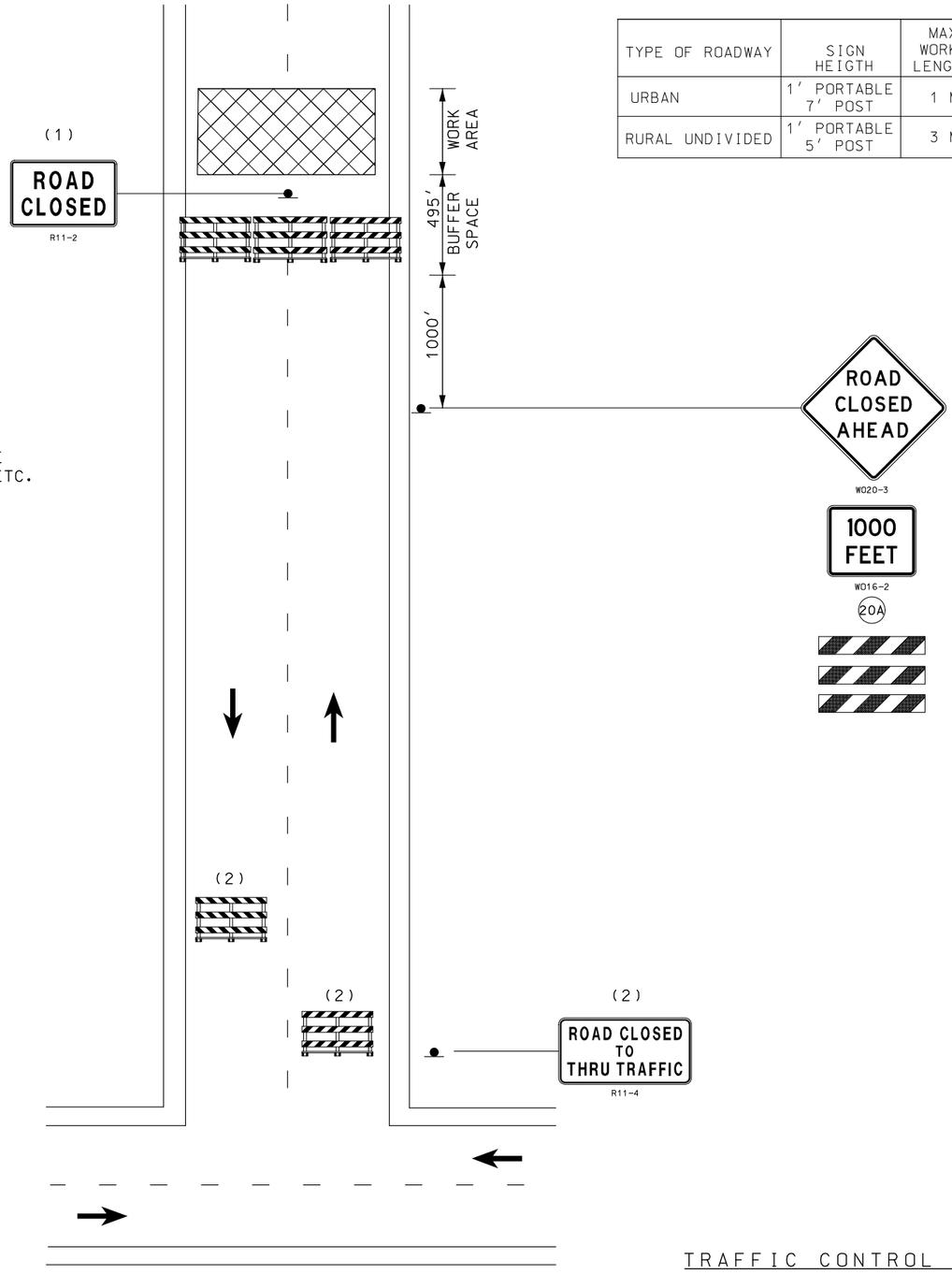
SUPPLEMENTAL WARNING METHODS MAY BE USED TO CALL ATTENTION TO THE WORK ZONE.

SEE STANDARD PLAN 616.10 FOR USE OF BARRICADES AND SIGNS.

FOR LONG-TERM CLOSURE, DETOUR SIGNING SHOULD BE CONSIDERED.

FOR DETOUR SIGNING, SEE DETOUR PLAN SHEET.

TYPE OF ROADWAY	SIGN HEIGTH	MAXIMUM WORK ZONE LENGTH (L)
URBAN	1' PORTABLE 7' POST	1 MILE
RURAL UNDIVIDED	1' PORTABLE 5' POST	3 MILE



HIGHWAY CLOSURE

TRAFFIC CONTROL LEGEND

- SIGN (SINGLE SIDED)
- TYPE 3 BARRICADE
- WORK AREA

NOT TO SCALE

DISCLAIMER

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STATE OF MISSOURI
JAMIE F. RANA
NUMBER PE-2005001034
PROFESSIONAL ENGINEER
Jamie F. Rana
01/27/2024 11:23:12 AM
JAMIE F. RANA - CIVIL
MO-PE-2005001034

DATE PREPARED
1/24/2024

ROUTE	STATE
N	MO
DISTRICT	SHEET NO.
SL	37

COUNTY
ST. LOUIS

JOB NO.
J6S3599

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION	DATE

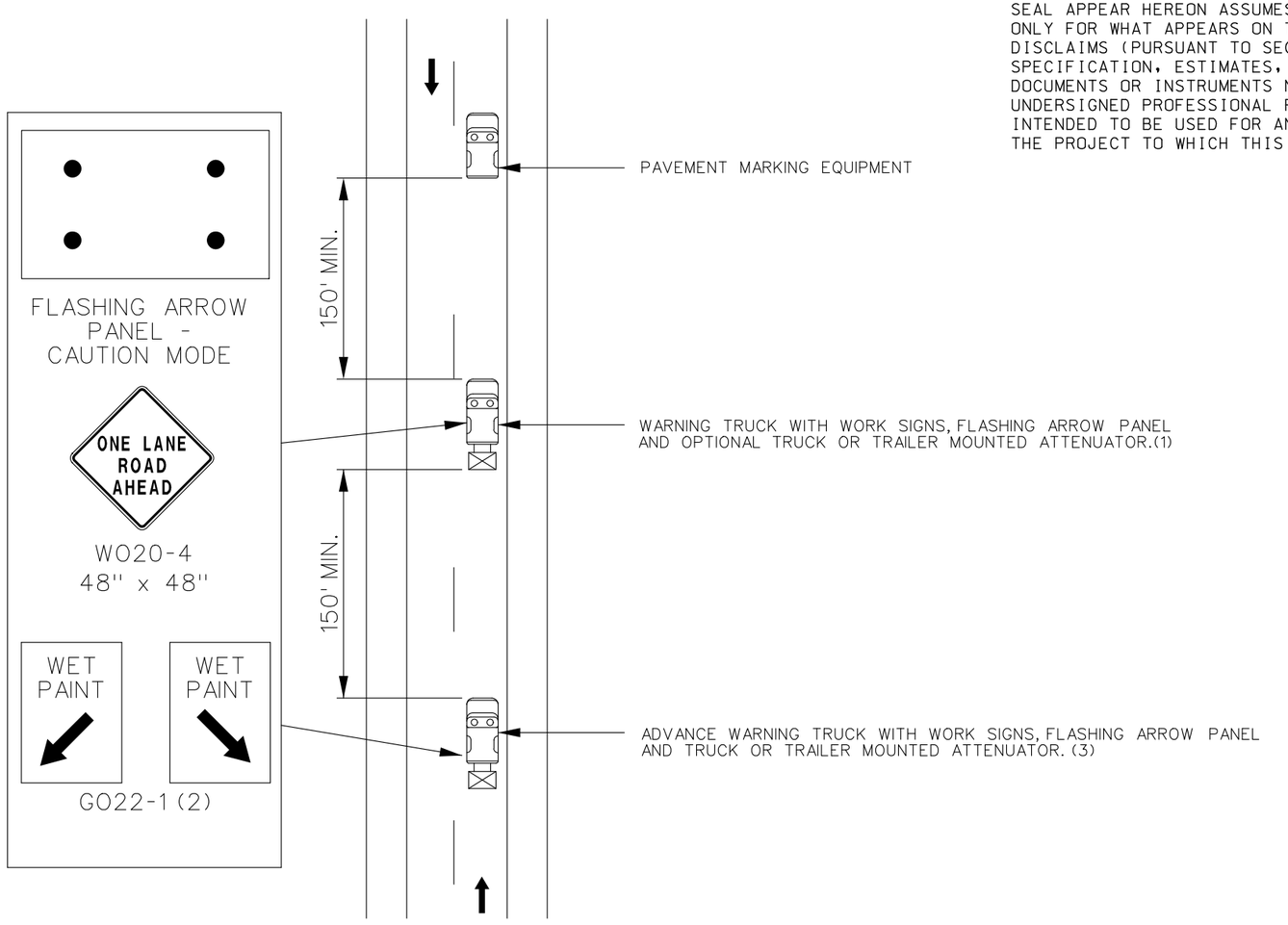
IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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

TRAFFIC CONTROL SHEET
HIGHWAY CLOSURE

CENTER LINE / EDGE LINE STRIPING ON TWO-LANE HIGHWAYS



TWO-LANE UNDIVIDED HIGHWAY

NOTES:

UPON APPROVAL OF THE ENGINEER, THE CONTRACTOR MAY PROVIDE ADDITIONAL PROTECTIVE TRUCKS EQUIPPED WITH PROPER WARNING DEVICES.

PROTECTIVE TRUCK AND WORK VEHICLES SHALL DISPLAY HIGH-INTENSITY ROTATING, FLASHING, OSCILLATING, OR STROBE LIGHTS.

VEHICLE HAZARD WARNING LIGHTS SHALL NOT BE USED INSTEAD OF THE VEHICLE'S HIGH-INTENSITY ROTATING, FLASHING, OSCILLATING, OR STROBE LIGHTS.

(1) TRUCK IS OPTIONAL ON TWO-LANE UNDIVIDED HIGHWAYS IF SIGNING AND ARROW BOARD IS MOUNTED ON THE PAVEMENT MARKING EQUIPMENT.

(2) WET PAINT SIGNS ARE INSTALLED TO INDICATE THE SIDE IN WHICH THE PAVEMENT MARKING MATERIAL IS BEING APPLIED. AT THE CONTRACTOR'S OPTION. A FRONT FACING WET PAINT SIGN MAY BE INSTALLED ON THE LEFT SIDE OF THE PAVEMENT MARKING EQUIPMENT.

(3) ADVANCE WARNING TRUCK IS POSITIONED AT THE NO TRACK POINT OF THE PAVEMENT MARKING MATERIAL OR SPACING SHOWN, WHICHEVER IS GREATER.

NOT TO SCALE

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STATE OF MISSOURI
JAMIE F. RANA
NUMBER PE-2005001034
PROFESSIONAL ENGINEER
Jami F. Rana
01/27/2024 11:25:36 AM
JAMIE F. RANA - CIVIL
MO-PE-2005001034

DATE PREPARED
1/24/2024

ROUTE	STATE
N	MO
DISTRICT	SHEET NO.
SL	38

COUNTY
ST. LOUIS

JOB NO.
J6S3599

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION	DATE

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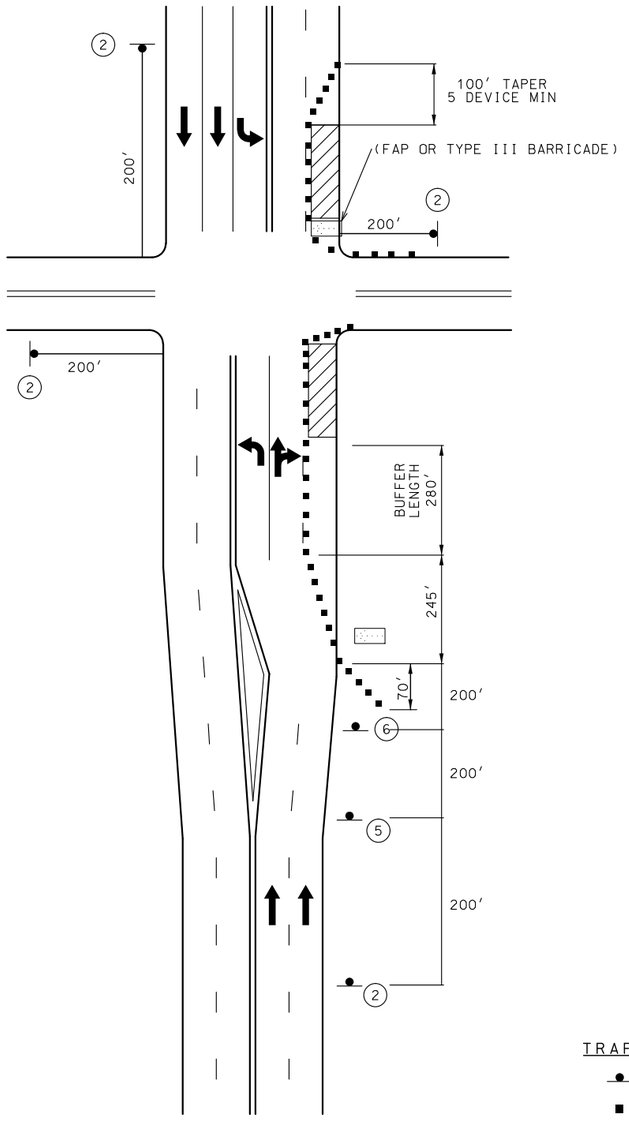
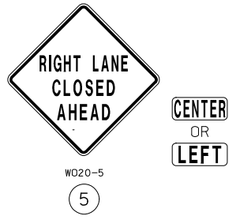
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

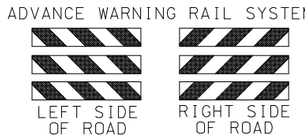
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

TRAFFIC CONTROL SHEET
CENTER LINE / EDGE LINE STRIPING
ON TWO-LANE HIGHWAYS



RIGHT LANE CLOSURE AT INTERSECTION
WORK ON NEAR OR FAR SIDE





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NOTES:

REMOVE AND/OR MODIFY EXISTING PAVEMENT MARKING AS NEEDED.

FOR SIGNALIZED INTERSECTIONS, ADJUSTMENTS MAY NEED TO BE MADE TO SIGNAL PHASING, TIMING, INDICATIONS OR DETECTOR SETTINGS.

FOR SHORT TERM OPERATION, WHERE IT IS NOT FEASIBLE TO MODIFY PAVEMENT MARKING, A 10-FEET DEVICE SPACING IS USED WHERE TRAFFIC IS GUIDED ACROSS DOUBLE YELLOW LINES OR OTHER CONFLICTING PAVEMENT MARKING. ALL OTHER SPACING ARE ONE-HALF OF THE SPACING.

TEMPORARY PAVEMENT MARKING REQUIRED WITH LONG TERM LANE CLOSURES.

PAVEMENT MARKING AND BARRICADES OPTIONAL FOR SHORT TERM OPERATIONS.

RIGHT LANE CLOSED AHEAD SIGN MAY BE OMITTED IN LOW SPEED URBAN AREAS WHERE THERE IS NOT SUFFICIENT SPACE FOR HTE FULL SIGN SERIES.

TRAFFIC CONTROL LEGEND

- SIGN (SINGLE SIDED)
- CHANNELIZER (TRIM-LINE)
- WORK AREA
- FLASHING ARROW PANEL

SPEED	SIGN SPACING (ft.)		TAPER LENGTH (ft.)		OPTIONAL	CHANNELIZER SPACING (ft.)	
PERM. POSTED (MPH)	UN -DIVIDED (S)	DIVIDED (S)	SHOULDER (1) (T1)	LANE (2) (T2)	BUFFER LENGTH (ft) (B)	TAPERS	BUFFER/ WORK AREAS
0-35	200	200	70	245	280	35	40
40-45	350	500	150	540	400	40	80
50-55	500	1000	185	660	560	50	80
60-70	1000	SA-1000 SB-1500 SC-2640	235	840	840	60	120
1 Shoulder taper length based on 10 ft. (standard shoulder width) offset. 2. Lane taper length based on 12 ft. (standard lane width) offset.							

NOT TO SCALE

STATE OF MISSOURI
JAMIE F. RANA
NUMBER PE-2005001034
PROFESSIONAL ENGINEER
Jamie F. Rana
01/27/2024 11:27:33 AM
JAMIE F. RANA - CIVIL
MO-PE-2005001034

DATE PREPARED
1/24/2024

ROUTE	STATE
N	MO
DISTRICT	SHEET NO.
SL	39

COUNTY
ST. LOUIS

JOB NO.
J6S3599

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

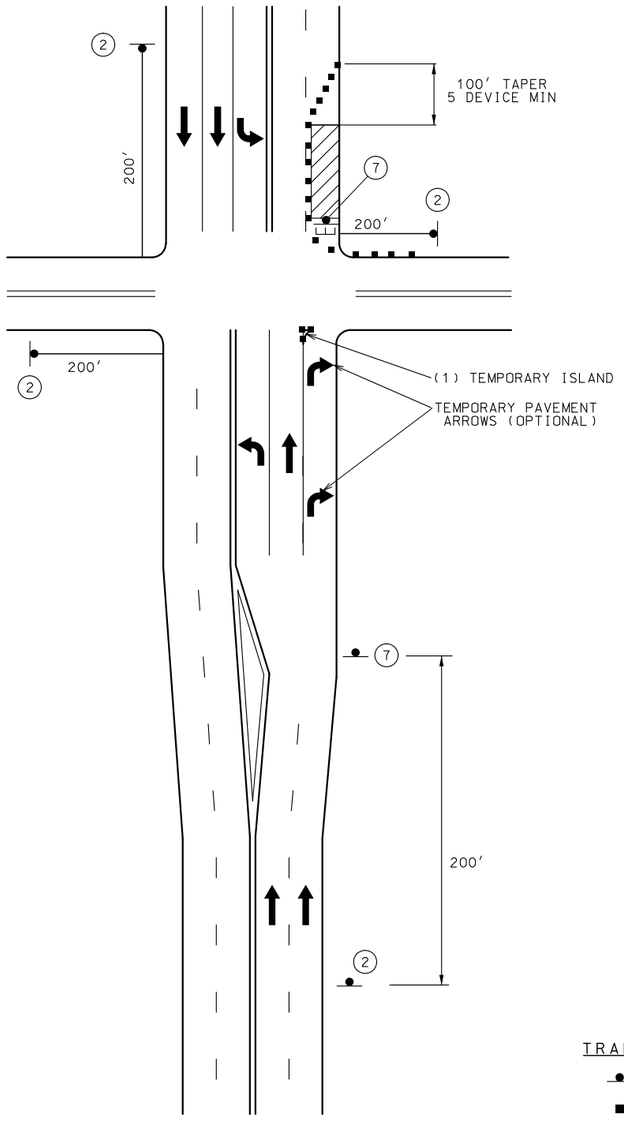
DESCRIPTION	DATE

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)

RIGHT LANE CLOSURE AT INTERSECTION WORK ON NEAR OR FAR SIDE



RIGHT LANE CLOSURE AT INTERSECTION
WORK ON FAR SIDE

TRAFFIC CONTROL LEGEND

- SIGN (SINGLE SIDED)
- CHANNELIZER (TRIM-LINE)
- WORK AREA
- TYPE 3 MOVEABLE BARRICADE

NOTES:

FOR SIGNALIZED INTERSECTIONS, ADJUSTMENTS MAY NEED TO BE MADE TO SIGNAL PHASING, TIMING, INDICATIONS OR DETECTOR SETTINGS.

REMOVE AND/OR MODIFY EXISTING PAVEMENT MARKING AS NEEDED.

PAVEMENT MARKING AND BARRICADES OPTIONAL FOR SHORT TERM OPERATIONS.

TEMPORARY PAVEMENT MARKING REQUIRED WITH LONG TERM LANE CLOSURES.

FOR SHORT TERM OPERATION, WHERE IT IS NOT FEASIBLE TO MODIFY PAVEMENT MARKING, A 10-FEET DEVICE SPACING IS USED WHERE TRAFFIC IS GUIDED ACROSS DOUBLE YELLOW LINES OR OTHER CONFLICTING PAVEMENT MARKING. ALL OTHER SPACING ARE ONE-HALF OF THE SPACING.

(1) TEMPORARY ISLAND MAY BE USED TO EMPHASIZE THE MANDATORY RIGHT TURN MOVEMENT WHERE THERE IS A SUFFICIENT RIGHT TURN RADIUS.

DISCLAIMER

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SPEED	SIGN SPACING (ft.)		TAPER LENGTH (ft.)		OPTIONAL	CHANNELIZER SPACING (ft.)	
PERM. POSTED (MPH)	UNDIVIDED (S)	DIVIDED (S)	SHOULDER (1) (T1)	LANE (2) (T2)	BUFFER LENGTH (ft) (B)	TAPERS	BUFFER/ WORK AREAS
0-35	200	200	70	245	280	35	40
40-45	350	500	150	540	400	40	80
50-55	500	1000	185	660	560	50	80
60-70	1000	SA-1000 SB-1500 SC-2640	235	840	840	60	120
1 Shoulder taper length based on 10 ft. (standard shoulder width) offset. 2. Lane taper length based on 12 ft. (standard lane width) offset.							

STATE OF MISSOURI
JAMIE F. RANA
NUMBER PE-2005001034
PROFESSIONAL ENGINEER
Jamie F. Rana
01/27/2024 11:27:55 AM
JAMIE F. RANA - CIVIL
MO-PE-2005001034

DATE PREPARED
1/24/2024

ROUTE	STATE
N	MO
DISTRICT	SHEET NO.
SL	40

COUNTY
ST. LOUIS

JOB NO.
J6S3599

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

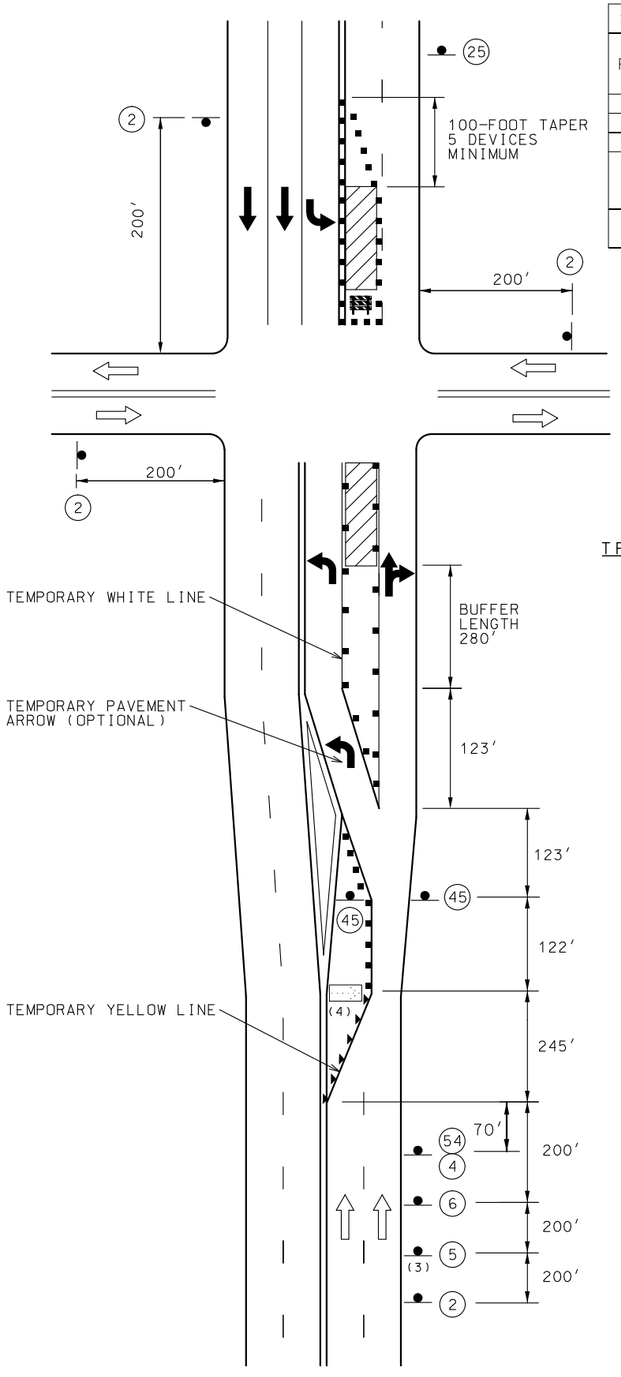
IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

DESCRIPTION	DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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

RIGHT LANE CLOSURE AT INTERSECTION WORK ON FAR SIDE



LEFT LANE CLOSURE AT INTERSECTION
WORK ON NEAR OR FAR SIDE

SPEED	SIGN SPACING (ft.)		TAPER LENGTH (ft.)		OPTIONAL	CHANNELIZER SPACING (ft.)	
PERM. POSTED (MPH)	UN -DIVIDED (S)	DIVIDED (S)	SHOULDER (1) (T1)	LANE (2) (T2)	BUFFER LENGTH (ft) (B)	TAPERS	BUFFER/ WORK AREAS
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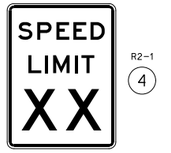
50-55	500	1000	185	660	560	50	80
60-70	1000	SA-1000 SB-1500 SC-2640	235	840	840	60	120

1 Shoulder taper length based on 10 ft. (standard shoulder width) offset.
2. Lane taper length based on 12 ft. (standard lane width) offset.

TRAFFIC CONTROL LEGEND

- SIGN (SINGLE SIDED)
- CHANNELIZER (TRIM-LINE)
- DIRECTIONAL INDICATOR BARRICADES (DIBS)
- WORK AREA
- FLASHING ARROW PANEL
- TYPE 3 BARRICADE

G020-5aP
54



R2-1
4

W020-1
2

W020-5
5

W020-6a
6

R2-1
(NORMAL SPEED)
25

R3-7L
45

ADVANCE WARNING RAIL SYSTEM

NOTES:

REMOVE AND/OR MODIFY EXISTING PAVEMENT MARKING AS NEEDED.

FOR SIGNALIZED INTERSECTIONS, ADJUSTMENTS MAY NEED TO BE MADE TO SIGNAL PHASING,TIMING, INDICATIONS OR DETECTOR SETTINGS.

FOR SHORT TERM OPERATION, WHERE IT IS NOT FEASIBLE TO MODIFY PAVEMENT MARKING, A 10-FEET DEVICE SPACING IS USED WHERE TRAFFIC IS GUIDED ACROSS DOUBLE YELLOW LINES OR OTHER CONFLICTING PAVEMENT MARKING. ALL OTHER SPACING ARE ONE-HALF OF THE SPACING.

TEMPORARY PAVEMENT MARKING REQUIRED WITH LONG TERM LANE CLOSURES.

PAVEMENT MARKING AND BARRICADES OPTIONAL FOR SHORT TERM OPERATIONS.

(3) LEFT LANE CLOSED AHEAD SIGN MAY BE OMITTED IN LOW SPEED URBAN AREAS WHERE THERE IS NOT SUFFICIENT SPACE FOR THE FULL SIGN SERIES.

(4) THE FLASHING ARROW BOARD SHOULD BE LOCATED AT THE BEGINNING OF THE MERGING TAPER WHEN MEDIAN WIDTH ALLOWS THIS PLACEMENT.

NOT TO SCALE

DISCLAIMER
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STATE OF MISSOURI
JAMIE F. RANA
NUMBER PE-2005001034
PROFESSIONAL ENGINEER
Jamie F. Rana
01/27/2024 11:29:02 AM
JAMIE F. RANA - CIVIL
MO-PE-2005001034

DATE PREPARED
1/24/2024

ROUTE	STATE
N	MO
DISTRICT	SHEET NO.
SL	41

COUNTY
ST. LOUIS

JOB NO.
J6S3599

CONTRACT ID.

PROJECT NO.

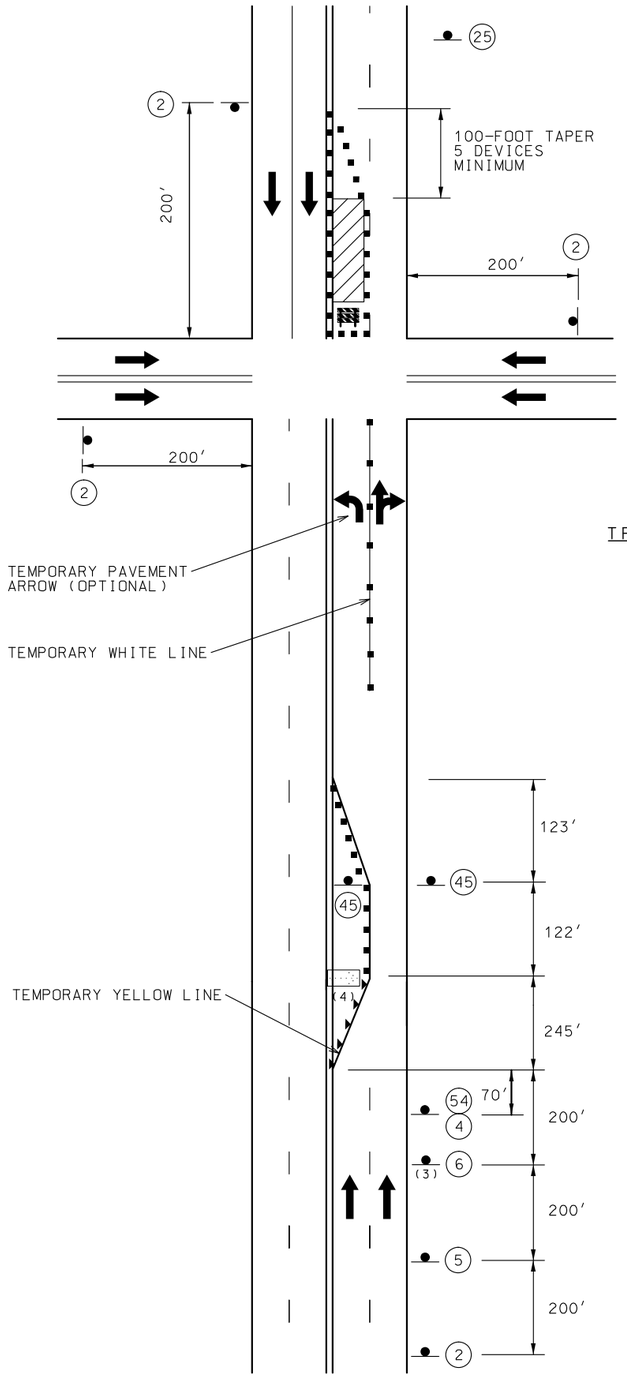
BRIDGE NO.

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)

LEFT LANE CLOSURE AT INTERSECTION WORK ON NEAR OR FAR SIDE



LEFT LANE CLOSURE AT INTERSECTION
WORK ON FAR SIDE

SPEED	SIGN SPACING (ft.)		TAPER LENGTH (ft.)		OPTIONAL	CHANNELIZER SPACING (ft.)	
PERM. POSTED (MPH)	UN -DIVIDED (S)	DIVIDED (S)	SHOULDER (1) (T1)	LANE (2) (T2)	BUFFER LENGTH (ft) (B)	TAPERS	BUFFER/ WORK AREAS
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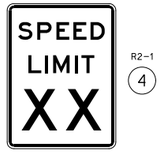
50-55	500	1000	185	660	560	50	80
60-70	1000	SA-1000 SB-1500 SC-2640	235	840	840	60	120

1 Shoulder taper length based on 10 ft. (standard shoulder width) offset.
2. Lane taper length based on 12 ft. (standard lane width) offset.

TRAFFIC CONTROL LEGEND

- SIGN (SINGLE SIDED)
- CHANNELIZER (TRIM-LINE)
- DIRECTIONAL INDICATOR BARRICADES (DIBS)
- WORK AREA
- FLASHING ARROW PANEL
- TYPE 3 BARRICADE

G020-5aP
54



R2-1
4

W020-1
2

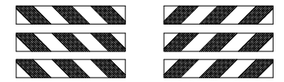
W020-5
5

W020-6a
6

R2-1
(NORMAL SPEED)
25

R3-7L
45

ADVANCE WARNING RAIL SYSTEM



NOTES:

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FOR SIGNALIZED INTERSECTIONS, ADJUSTMENTS MAY NEED TO BE MADE TO SIGNAL PHASING,TIMING, INDICATIONS OR DETECTOR SETTINGS.

FOR SHORT TERM OPERATION, WHERE IT IS NOT FEASIBLE TO MODIFY PAVEMENT MARKING, A 10-FEET DEVICE SPACING IS USED WHERE TRAFFIC IS GUIDED ACROSS DOUBLE YELLOW LINES OR OTHER CONFLICTING PAVEMENT MARKING. ALL OTHER SPACING ARE ONE-HALF OF THE SPACING.

TEMPORARY PAVEMENT MARKING REQUIRED WITH LONG TERM LANE CLOSURES.

PAVEMENT MARKING AND BARRICADES OPTIONAL FOR SHORT TERM OPERATIONS.

(3) LEFT LANE CLOSED AHEAD SIGN MAY BE OMITTED IN LOW SPEED URBAN AREAS WHERE THERE IS NOT SUFFICIENT SPACE FOR THE FULL SIGN SERIES.

(4) THE FLASHING ARROW BOARD SHOULD BE LOCATED AT THE BEGINNING OF THE MERGING TAPER WHEN MEDIAN WIDTH ALLOWS THIS PLACEMENT.

NOT TO SCALE

DISCLAIMER
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STATE OF MISSOURI
JAMIE F. RANA
NUMBER PE-2005001034
PROFESSIONAL ENGINEER
Jamie F. Rana
01/27/2024 11:29:24 AM
JAMIE F. RANA - CIVIL
MO-PE-2005001034

DATE PREPARED
1/24/2024

ROUTE	STATE
N	MO
DISTRICT	SHEET NO.
SL	42

COUNTY
ST. LOUIS

JOB NO.
J6S3599

CONTRACT ID.

PROJECT NO.

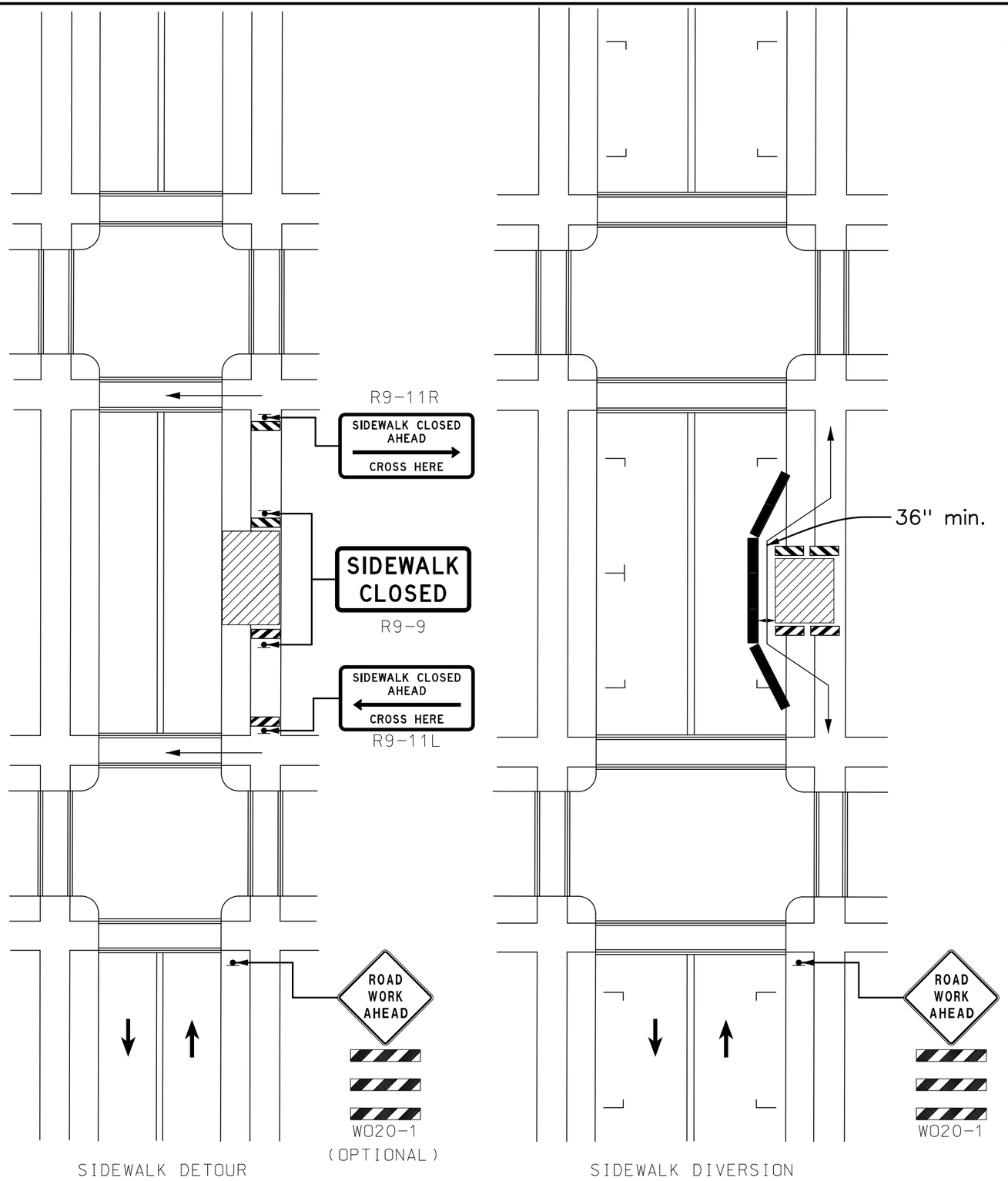
BRIDGE NO.

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)

LEFT LANE CLOSURE AT INTERSECTION WORK ON FAR SIDE



SIDEWALK DETOUR

SIDEWALK DIVERSION

NOTES:

1. WHEN CROSSWALKS OR OTHER PEDESTRIAN FACILITIES ARE CLOSED OR RELOCATED, TEMPORARY FACILITIES SHALL BE DETECTABLE AND SHALL INCLUDE ACCESSIBILITY FEATURES CONSISTENT WITH THE FEATURES PRESENT IN THE EXISTING PEDESTRIAN FACILITY.
2. WHERE HIGH SPEEDS ARE ANTICIPATED, A TEMPORARY TRAFFIC BARRIER AND, IF NECESSARY, A CRASH CUSHION SHOULD BE USED TO SEPARATE SIDEWALKS FROM VEHICULAR TRAFFIC.
3. WHERE HIGH SPEEDS ARE ANTICIPATED, A TEMPORARY TRAFFIC BARRIER AND, IF NECESSARY, A CRASH CUSHION SHOULD BE USED TO SEPARATE SIDEWALKS FROM VEHICULAR TRAFFIC.
4. ONLY THE TTC DEVICES RELATED TO PEDESTRIANS ARE SHOWN. OTHER DEVICES, SUCH AS LANE CLOSURE SIGNING OR "ROAD NARROWS" SIGNS, MAY BE USED TO CONTROL VEHICULAR TRAFFIC.
5. SIGNS, SUCH AS "KEEP RIGHT (LEFT)", MAY BE PLACED ALONG A TEMPORARY SIDEWALK TO GUIDE OR DIRECT PEDESTRIANS.

DISCLAIMER

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TRAFFIC CONTROL LEGEND

- SIGN (SINGLE SIDED)
- WORK AREA
- LONGITUDINAL CHANNELIZING DEVICE
- TYPE III BARRICADE
- ADVANCED WARNING RAILS
- DIRECTION OF PEDESTRIAN DETOUR
- DIRECTION OF TRAFFIC

NOT TO SCALE

STATE OF MISSOURI
JAMIE F. RANA
NUMBER PE-2005001034
PROFESSIONAL ENGINEER
Jamie F. Rana
01/27/2024 11:29:49 AM
JAMIE F. RANA - CIVIL
MO-PE-2005001034

DATE PREPARED: 1/24/2024

ROUTE	STATE
N	MO
DISTRICT	SHEET NO.
SL	43

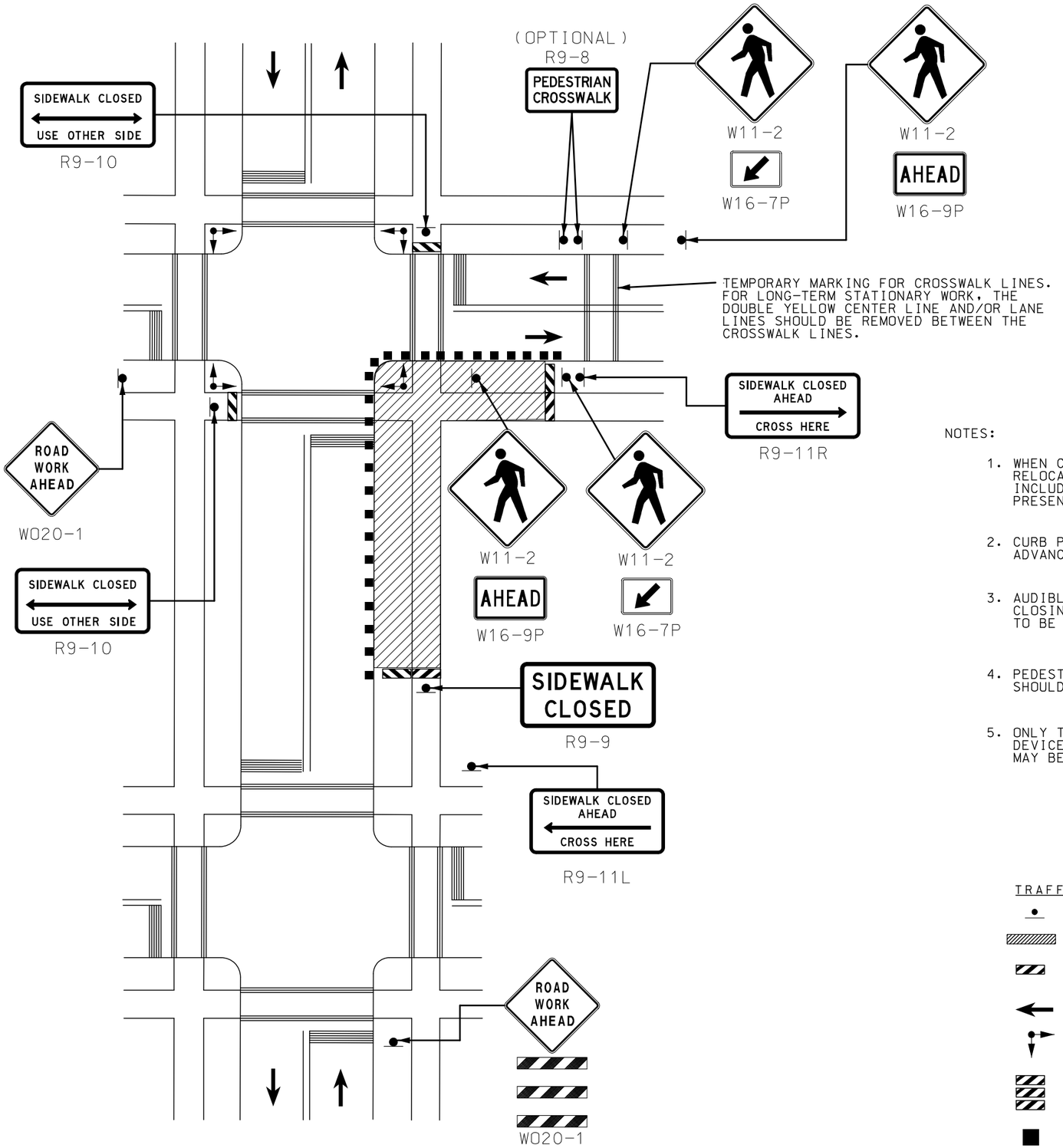
COUNTY: ST. LOUIS
JOB NO.: J6S3599
CONTRACT ID.:
PROJECT NO.:
BRIDGE NO.:

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

DESCRIPTION	DATE	REV.

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

TRAFFIC CONTROL SHEET
SIDEWALK DETOUR OR DIVERSION



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.

NOTES:

1. WHEN CROSSWALKS OR OTHER PEDESTRIAN FACILITIES ARE CLOSED OR RELOCATED, TEMPORARY FACILITIES SHALL BE DETECTABLE AND SHALL INCLUDE ACCESSIBILITY FEATURES CONSISTENT WITH THE FEATURES PRESENT IN THE EXISTING PEDESTRIAN FACILITY.

2. CURB PARKING SHALL BE PROHIBITED FOR AT LEAST 50 FEET IN ADVANCE OF THE MIDBLOCK CROSSWALK.

3. AUDIBLE INFORMATION DEVICES SHOULD BE CONSIDERED WHERE MIDBLOCK CLOSINGS AND CHANGED CROSSWALK AREAS CAUSE INADEQUATE COMMUNICATION TO BE PROVIDED TO PEDESTRIANS WHO HAVE VISUAL DISABILITIES.

4. PEDESTRIAN TRAFFIC SIGNALS DISPLAYS CONTROLLING CLOSED CROSSWALKS SHOULD BE COVERED OR DEACTIVATED.

5. ONLY THE TTC DEVICES RELATED TO PEDESTRIANS ARE SHOWN. OTHER DEVICES, SUCH AS LANE CLOSURE SIGNING OR "ROAD NARROWS" SIGNS, MAY BE USED TO CONTROL VEHICULAR TRAFFIC.

TRAFFIC CONTROL LEGEND

- SIGN (SINGLE SIDED)
- WORK AREA
- TYPE III BARRICADE
- DIRECTION OF TRAFFIC
- TRAFFIC OR PEDESTRIAN SIGNAL
- ADVANCED WARNING RAILS
- CHANNELIZER (TRIM-LINE)

NOT TO SCALE

STATE OF MISSOURI
JAMIE F. RANA
NUMBER PE-2005001034
PROFESSIONAL ENGINEER
Jamie F. Rana
01/27/2024 11:30:14 AM
JAMIE F. RANA - CIVIL
MO-PE-2005001034

DATE PREPARED: 1/24/2024

ROUTE	STATE
N	MO
DISTRICT	SHEET NO.
SL	44

COUNTY: ST. LOUIS
JOB NO.: J6S3599
CONTRACT ID.:
PROJECT NO.:
BRIDGE NO.:

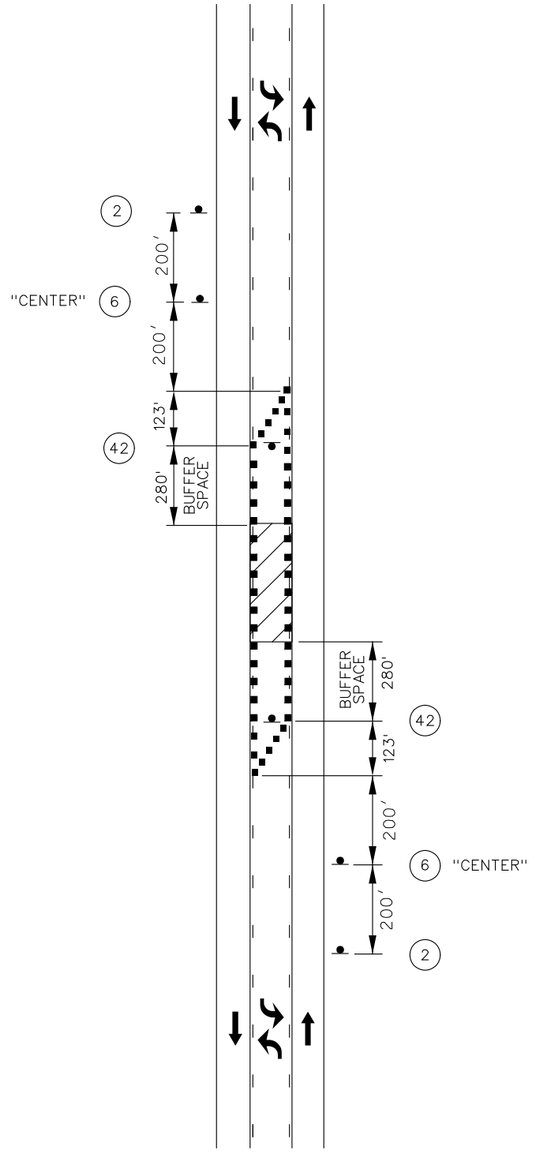
IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

DESCRIPTION | DATE | REV.

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

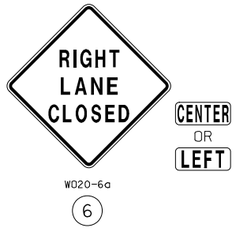
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

TRAFFIC CONTROL SHEET
CROSSWALK CLOSURES AND
PEDESTRIAN DETOURS

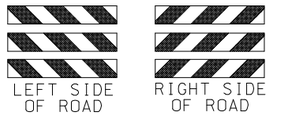


OPERATIONS IN TWO-WAY LEFT TURN LANE ON MULTI-LANE UNDIVIDED HIGHWAYS

NOT TO SCALE



ADVANCE WARNING RAIL SYSTEM



TRAFFIC CONTROL LEGEND

- SIGN (SINGLE SIDED)
- CHANNELIZER (TRIM-LINE)
- WORK AREA
- FLASHING ARROW PANEL

SPEED	SIGN SPACING (ft.)		TAPER LENGTH (ft.)		OPTIONAL	CHANNELIZER SPACING (ft.)	
PERM. POSTED (MPH)	UNDIVIDED (S)	DIVIDED (S)	SHOULDER (1) (T1)	LANE (2) (T2)	BUFFER LENGTH (ft) (B)	TAPERS	BUFFER/ WORK AREAS
0-35	–	200	70	245	280	35	40
40-45	–	350	150	540	400	40	80
50-55	–	500	185	660	560	50	80
60-70	–	1000	235	840	840	60	120

1 Shoulder taper length based on 10 ft. (standard shoulder width) offset.
2. Lane taper length based on 12 ft. (standard lane width) offset.

DISCLAIMER

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STATE OF MISSOURI
JAMIE F. RANA
NUMBER PE-2005001034
PROFESSIONAL ENGINEER
Jamie F. Rana
01/27/2024 11:30:38 AM
JAMIE F. RANA - CIVIL
MO-PE-2005001034

DATE PREPARED
1/24/2024

ROUTE	STATE
N	MO
DISTRICT	SHEET NO.
SL	45

COUNTY
ST. LOUIS

JOB NO.
J6S3599

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

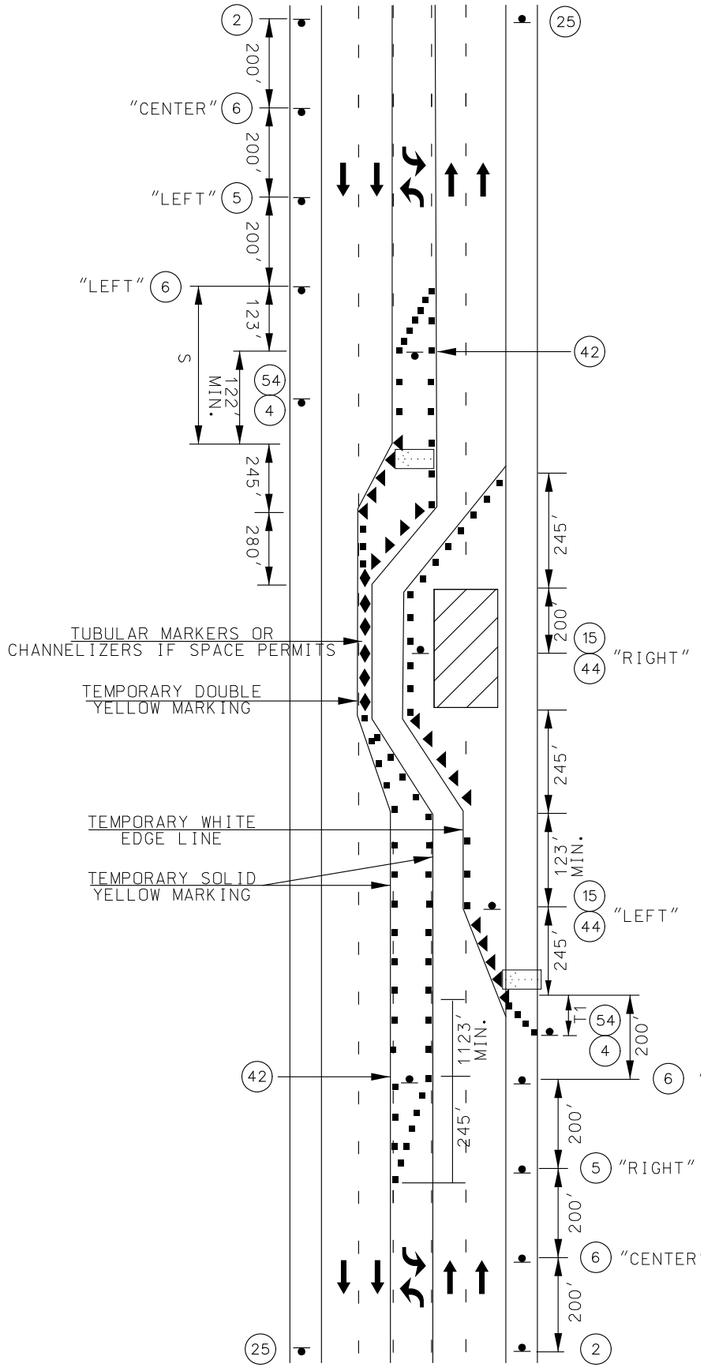
IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

REV.	DESCRIPTION	DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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

TRAFFIC CONTROL SHEET
OPERATIONS IN TWO-WAY LEFT TURN LANE ON MULTI-LANE UNDIVIDED HIGHWAYS



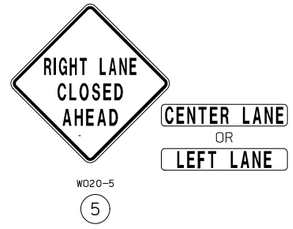
TWO-LANE CLOSURE ON A
5-LANE UNDIVIDED HIGHWAYS

NOT TO SCALE

G020-5aP
54

R2-1
4

WO20-1
2



WO20-5
5

WO20-6a
6

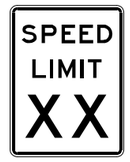
WO1-4R
15

WO13-1
44

WO1-4L
15

WO13-1
44

R4-7a
42



R2-1
25

NORMAL SPEED

TRAFFIC CONTROL LEGEND

- SIGN (SINGLE SIDED)
- CHANNELIZER (TRIM-LINE)
- TUBULAR MARKER
- DIRECTIONAL INDICATOR BARRICADE
- WORK AREA
- FLASHING ARROW PANEL
- ADVANCE WARNING RAIL SYSTEM

DISCLAIMER
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NOTES:

PAVEMENT MARKINGS NO LONGER APPLICABLE SHALL BE REMOVED OR OBLITERATED AS SOON AS PRACTICAL.

TEMPORARY PAVEMENT MARKING REQUIRED WITH LONG TERM CLOSURES.

FOR SHORT TERM OPERATIONS WHERE IT IS NOT FEASIBLE TO MODIFY PAVEMENT, A 10-FEET DEVICE SPACING IS USED IN THE SHIFTING TAPERS AND WHERE TRAFFIC IS GUIDED ACROSS OTHER CONFLICTING PAVEMENT MARKING, ALL OTHER SPACINGS ARE ONE-HALF OF THE SPACING.

(4) ADVISORY SPEED (XX MPH) PLAQUE IS ONLY REQUIRED WHERE FULL LENGTH SHIFTING TAPERS CANNOT BE PROVIDED.

SPEED	SIGN SPACING (ft.)		TAPER LENGTH (ft.)		OPTIONAL	CHANNELIZER SPACING (ft.)	
PERM. POSTED (MPH)	UNDIVIDED (S)	DIVIDED (S)	SHOULDER (1) (T1)	LANE (2) (T2)	BUFFER LENGTH (ft) (B)	TAPERS	BUFFER/ WORK AREAS
0-35	200	–	70	245	280	35	40
40-45	350	–	150	540	400	40	80
50-55	500	–	185	660	560	50	80
60-70	1000	–	235	840	840	60	120

1 Shoulder taper length based on 10 ft. (standard shoulder width) offset.
2. Lane taper length based on 12 ft. (standard lane width) offset.

STATE OF MISSOURI
JAMIE F. RANA
NUMBER PE-2005001034
PROFESSIONAL ENGINEER
Jami F. Rana
01/27/2024 11:31:00 AM
JAMIE F. RANA - CIVIL
MO-PE-2005001034

DATE PREPARED
1/24/2024

ROUTE	STATE
N	MO
DISTRICT	SHEET NO.
SL	46

COUNTY
ST. LOUIS

JOB NO.
J6S3599

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

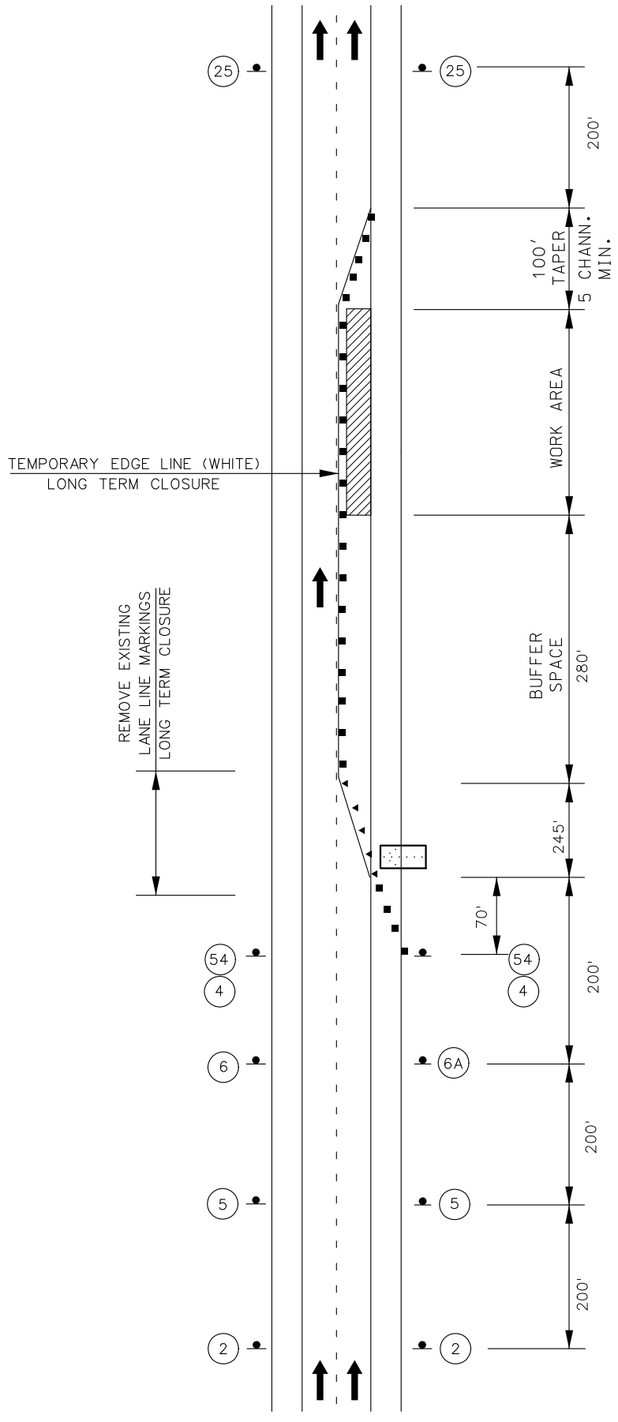
DESCRIPTION	DATE

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)

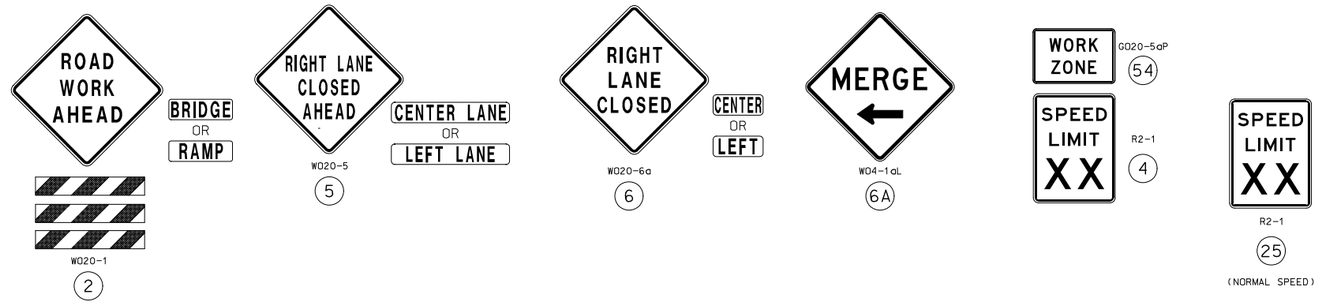
TRAFFIC CONTROL SHEET
OPERATIONS IN TWO-WAY LEFT
TURN LANE ON MULTI-LANE
UNDIVIDED HIGHWAYS

REV.

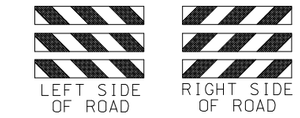


STATIONARY LANE CLOSURE
ON A DIVIDED HIGHWAY

NOT TO SCALE



ADVANCE WARNING RAIL SYSTEM



NOTES:

TEMPORARY PAVEMENT MARKING REQUIRED WITH LONG TERM CLOSURES.

REMOVE AND/OR MODIFY ANY EXISTING PAVEMENT MARKING AS NEEDED.

THIS INFORMATION ALSO SHALL BE USED WHEN WORK IS BEING PERFORMED IN THE LANE ADJACENT TO THE MEDIAN ON A DIVIDED HIGHWAY. IN THIS CASE, THE LEFT LANE CLOSED SIGNS AND THE CORRESPONDING MERGE OR LANE ENDS SIGNS SHALL BE SUBSTITUTED.

WHEN A SIDE ROAD INTERSECTS THE HIGHWAY WITHIN THE TTC ZONE, ADDITIONAL TTC DEVICES SHALL BE PLACED AS NEEDED.

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TRAFFIC CONTROL LEGEND

- SIGN (SINGLE SIDED)
- DIRECTIONAL INDICATOR BARRICADE
- CHANNELIZER (TRIM-LINE)
- WORK AREA
- FLASHING ARROW PANEL
- ADVANCE WARNING RAILS

SPEED	SIGN SPACING (ft.)		TAPER LENGTH (ft.)		OPTIONAL	CHANNELIZER SPACING (ft.)	
PERM. POSTED (MPH)	UN -DIVIDED (S)	DIVIDED (S)	SHOULDER (1) (T1)	LANE (2) (T2)	BUFFER LENGTH (ft) (B)	TAPERS	BUFFER/ WORK AREAS
0-35	-	200	70	245	280	35	40
40-45	-	500	150	540	400	40	80
50-55	-	1000	185	660	560	50	80
60-70	-	SA-1000 SB-1500 SC-2640	235	840	840	60	120

1 Shoulder taper length based on 10 ft. (standard shoulder width) offset.
2. Lane taper length based on 12 ft. (standard lane width) offset.

STATE OF MISSOURI
JAMIE F. RANA
NUMBER PE-2005001034
PROFESSIONAL ENGINEER
Jami F. Rana
01/27/2024 11:31:19 AM
JAMIE F. RANA - CIVIL
MO-PE-2005001034

DATE PREPARED
1/24/2024

ROUTE	STATE
N	MO
DISTRICT	SHEET NO.
SL	47

COUNTY
ST. LOUIS

JOB NO.
J6S3599

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

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

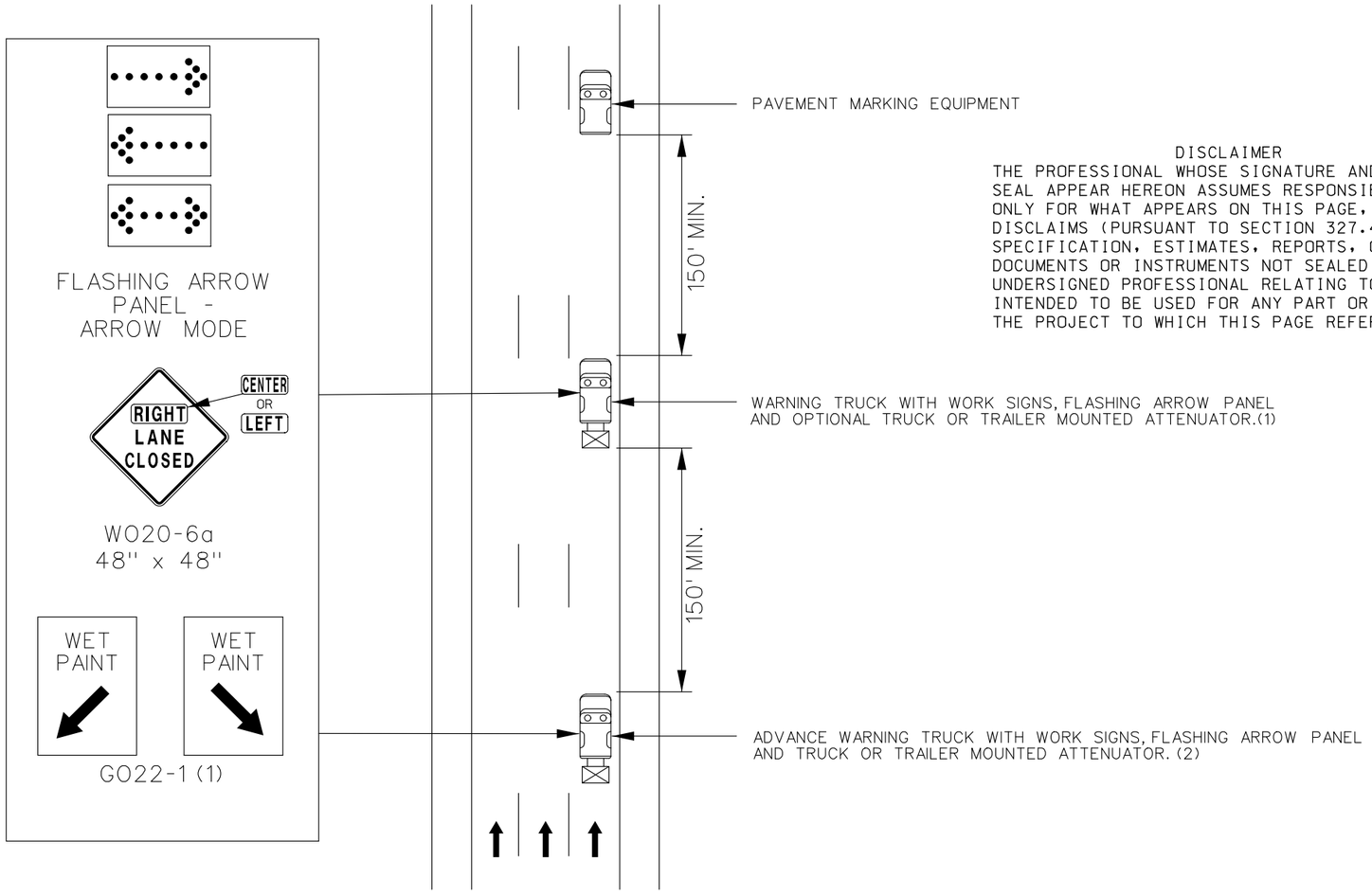
DESCRIPTION	DATE	REV.

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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

TRAFFIC CONTROL SHEET
STATIONARY LANE CLOSURE
ON A DIVIDED HIGHWAY

CENTER LINE AND OR LANE LINE STRIPING ON MULTI-LANE DIVIDED HIGHWAYS



MULTI-LANE DIVIDED HIGHWAY

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NOTES:

UPON APPROVAL OF THE ENGINEER, THE CONTRACTOR MAY PROVIDE ADDITIONAL PROTECTIVE TRUCKS EQUIPPED WITH PROPER WARNING DEVICES.

PROTECTIVE TRUCK AND WORK VEHICLES SHALL DISPLAY HIGH-INTENSITY ROTATING, FLASHING, OSCILLATING, OR STROBE LIGHTS.

VEHICLE HAZARD WARNING LIGHTS SHALL NOT BE USED INSTEAD OF THE VEHICLE'S HIGH-INTENSITY ROTATING, FLASHING, OSCILLATING, OR STROBE LIGHTS.

(1) WET PAINT SIGNS ARE INSTALLED TO INDICATE THE SIDE IN WHICH THE PAVEMENT MARKING MATERIAL IS BEING APPLIED. AT THE CONTRACTOR'S OPTION. A FRONT FACING WET PAINT SIGN MAY BE INSTALLED ON THE LEFT SIDE OF THE PAVEMENT MARKING EQUIPMENT.

(2) ADVANCE WARNING TRUCK IS POSITIONED AT THE NO TRACK POINT OF THE PAVEMENT MARKING MATERIAL OR SPACING SHOWN, WHICHEVER IS GREATER.

FLASHING ARROW PANELS SHALL, AS A MINIMUM, BE TYPE B, WITH A SIZE OF 60 X 30 INCHES.

VEHICLE-MOUNTED SIGNS SHALL BE MOUNTED IN A MANNER SUCH THAT THEY ARE NOT OBSCURED BY EQUIPMENT OR SUPPLIES. SIGN LEGEND ON VEHICLE-MOUNTED SIGNS SHALL BE COVERED OR TURNED FROM VIEW WHEN WORK IS NOT IN PROGRESS.

A FLASHING ARROW BOARD SHALL BE USED WHEN A FREEWAY LANE IS CLOSED. WHEN MORE THAN ONE LANE IS CLOSED, A SEPARATE FLASHING ARROW BOARD SHALL BE USED FOR EACH LANE.

NOT TO SCALE

STATE OF MISSOURI
JAMIE F. RANA
NUMBER PE-2005001034
PROFESSIONAL ENGINEER
Jamie F. Rana
01/27/2024 11:31:44 AM
JAMIE F. RANA - CIVIL
MO-PE-2005001034

DATE PREPARED	1/24/2024
ROUTE	N
STATE	MO
DISTRICT	SL
SHEET NO.	48
COUNTY	ST. LOUIS
JOB NO.	J6S3599
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

DESCRIPTION	DATE

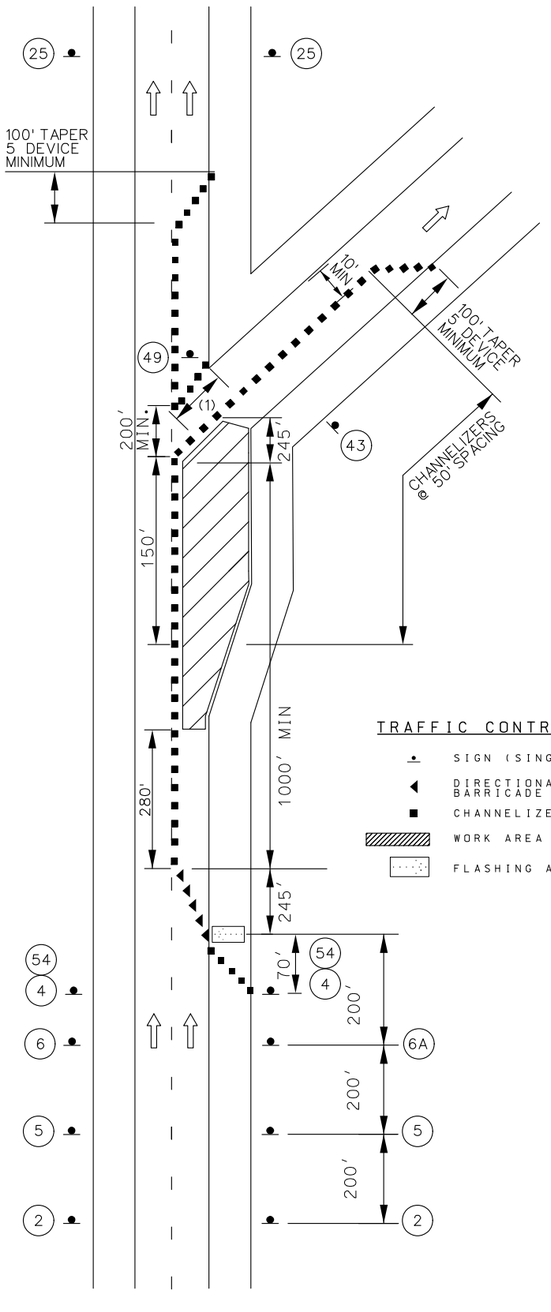
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

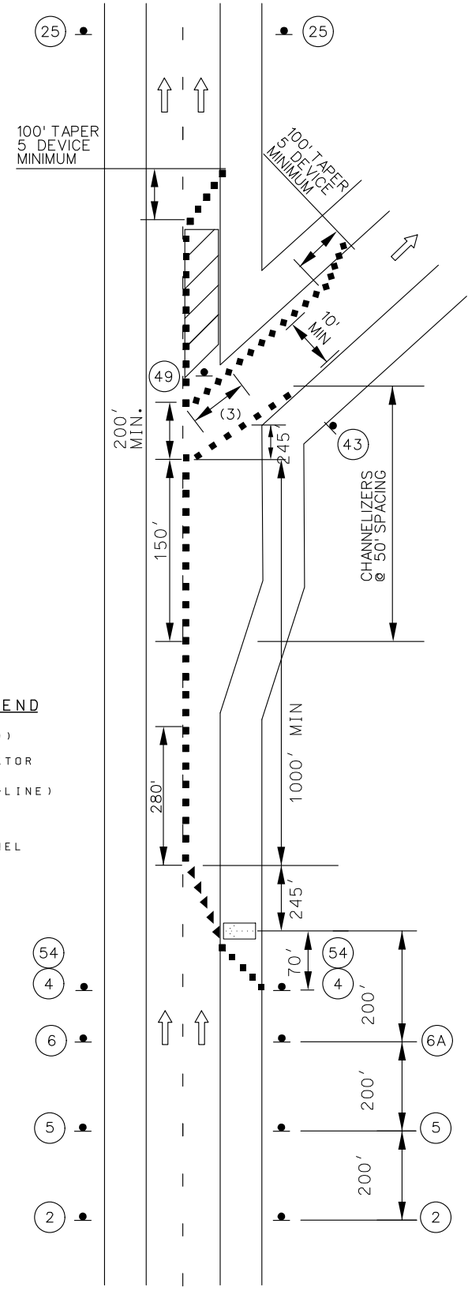
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

TRAFFIC CONTROL SHEET
CENTER LINE / LANE LINE
STRIPING ON MULTI-LANE
DIVIDED HIGHWAYS

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

NOT TO SCALE





TRAFFIC CONTROL LEGEND

- SIGN (SINGLE SIDED)
- DIRECTIONAL INDICATOR BARRICADE
- CHANNELIZER (TRIM-LINE)
- WORK AREA
- FLASHING ARROW PANEL

WORK IN THE VICINITY
OF AN EXIT RAMP

W04-1a
6A

W020-1
2

W020-6a
6

W020-5
5

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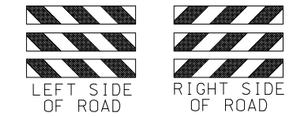
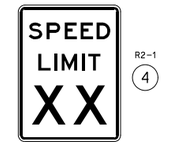
ADVANCE WARNING RAIL SYSTEM



LEFT SIDE OF ROAD | RIGHT SIDE OF ROAD

G020-5aP
54



R2-1
4

W05-1
43

E05-1
49

R2-1
(NORMAL SPEED)
25

NOTES:

REMOVE AND/OR MODIFY ANY EXISTING PAVEMENT MARKING AS NEEDED.

TEMPORARY PAVEMENT MARKING REQUIRED WITH LONG TERM LANE CLOSURES.

RAMP NARROWS SIGN IS REQUIRED WHEN RAMP WIDTH IS REDUCED

(3) 5 CHANNELIZER DEVICES MINIMUM

SPEED	SIGN SPACING (ft.)		TAPER LENGTH (ft.)		OPTIONAL	CHANNELIZER SPACING (ft.)	
PERM. POSTED (MPH)	UN -DIVIDED (S)	DIVIDED (S)	SHOULDER (1) (T1)	LANE (2) (T2)	BUFFER LENGTH (ft) (B)	TAPERS	BUFFER/ WORK AREAS
0-35	-	200	70	245	280	35	40
40-45	-	500	150	540	400	40	80
50-55	-	1000	185	660	560	50	80
60-70	-	SA-1000 SB-1500 SC-2640	235	840	840	60	120

1 Shoulder taper length based on 10 ft. (standard shoulder width) offset.
2. Lane taper length based on 12 ft. (standard lane width) offset.

STATE OF MISSOURI
JAMIE F. RANA
NUMBER PE-2005001034
PROFESSIONAL ENGINEER
Jamie F. Rana
01/27/2024 11:32:12 AM
JAMIE F. RANA - CIVIL
MO-PE-2005001034

DATE PREPARED
1/24/2024

ROUTE	STATE
N	MO
DISTRICT	SHEET NO.
SL	49

COUNTY
ST. LOUIS

JOB NO.
J6S3599

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

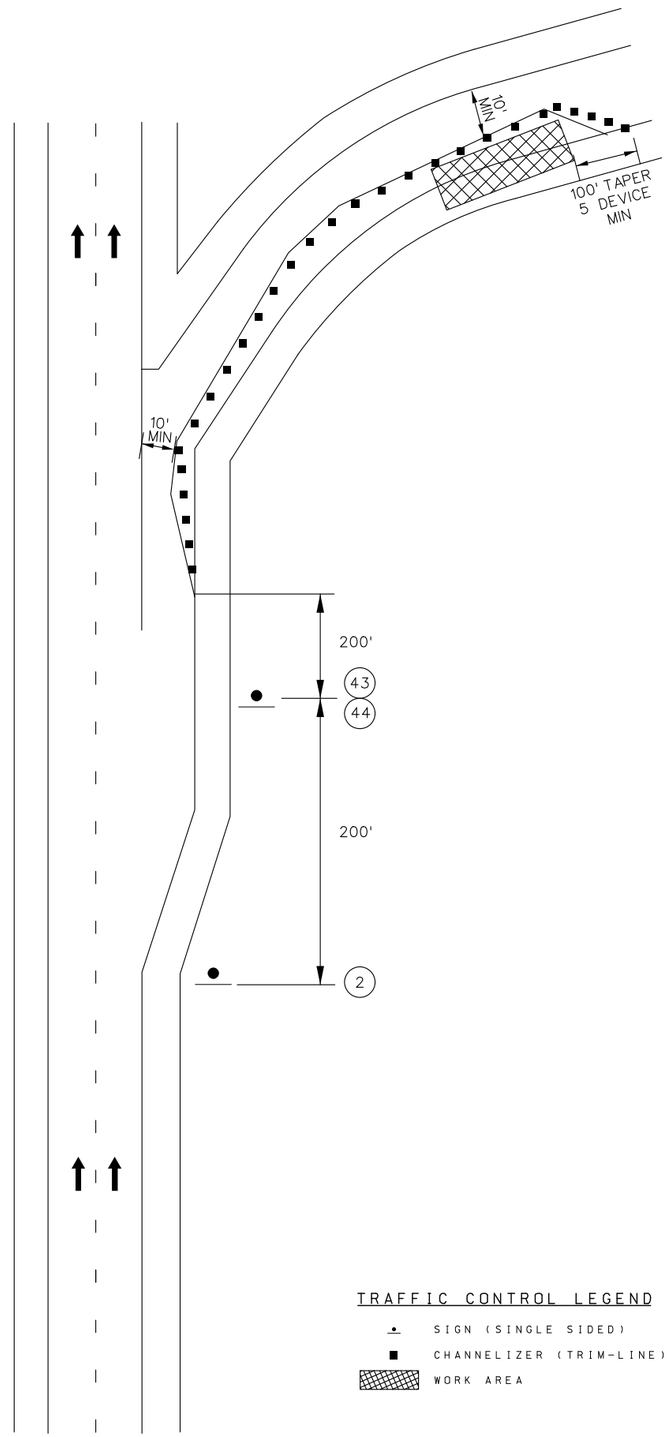
REV.	DESCRIPTION	DATE

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)

TRAFFIC CONTROL SHEET
WORK IN THE VICINITY
OF AN EXIT RAMP



TRAFFIC CONTROL LEGEND

- SIGN (SINGLE SIDED)
- CHANNELIZER (TRIM-LINE)
- WORK AREA

NOT TO SCALE

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NOTES:

REMOVE AND/OR MODIFY ANY EXISTING PAVEMENT MARKING AS NEEDED.

TEMPORARY PAVEMENT MARKING OPTIONAL FOR SHORT TERM OPERATIONS.

RAMP NARROWS SIGN IS REQUIRED WHEN RAMP WIDTH IS REDUCED

SPEED	SIGN SPACING (ft.)		TAPER LENGTH (ft.)		OPTIONAL	CHANNELIZER SPACING (ft.)	
PERM. POSTED (MPH)	UN -DIVIDED (S)	DIVIDED (S)	SHOULDER (1) (T1)	LANE (2) (T2)	BUFFER LENGTH (ft) (B)	TAPERS	BUFFER/ WORK AREAS
0-35	-	200	70	245	280	35	40
40-45	-	500	150	540	400	40	80
50-55	-	1000	185	660	560	50	80
60-70	-	SA-1000 SB-1500 SC-2640	235	840	840	60	120

1 Shoulder taper length based on 10 ft. (standard shoulder width) offset.
2. Lane taper length based on 12 ft. (standard lane width) offset.

STATE OF MISSOURI
JAMIE F. RANA
NUMBER PE-2005001034
PROFESSIONAL ENGINEER
Jamie F. Rana
01/27/2024 11:32:47 AM
JAMIE F. RANA - CIVIL
MO-PE-2005001034

DATE PREPARED
1/24/2024

ROUTE	STATE
N	MO
DISTRICT	SHEET NO.
SL	50

COUNTY
ST. LOUIS

JOB NO.
J6S3599

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)

TRAFFIC CONTROL SHEET
PARTIAL EXIT RAMP CLOSURE

REV.

DISCLAIMER

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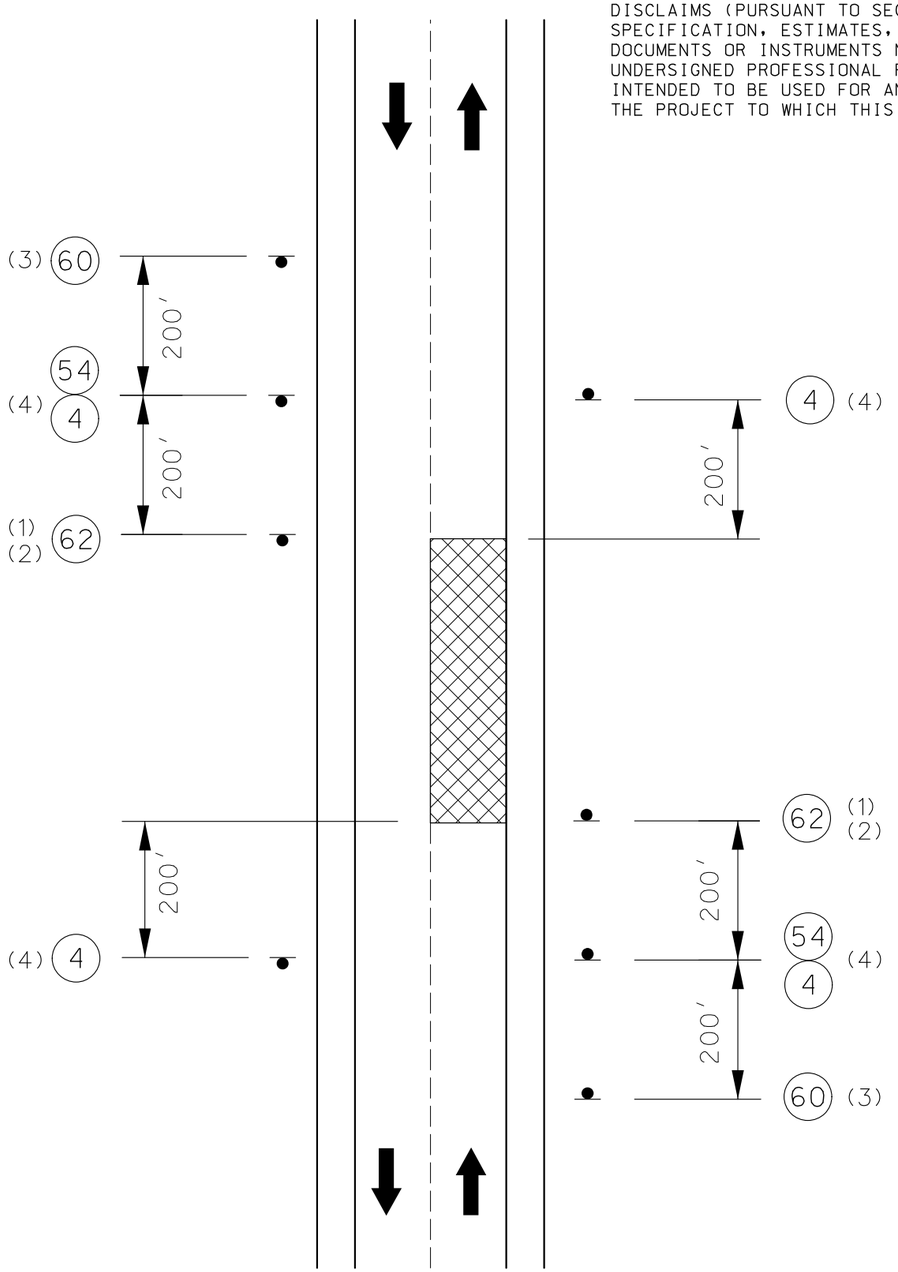
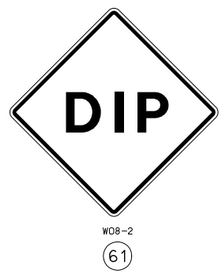
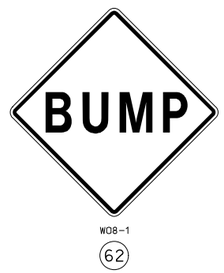
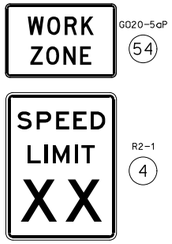


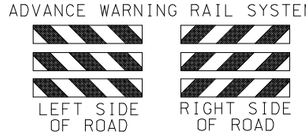
EXCAVATIONS WITH STEEL PLATE OR BACK FILL ON UNDIVIDED HIGHWAYS

NOT TO SCALE









NOTES:

WHEN WORK ACTIVITIES INVOLVE MOVEMENT OF SOIL OR SUBSURFACE OPERATIONS, UTILITIES SHALL BE LOCATED BY CALLING MO ONE CALL, THE LOCAL PROVIDER, AND MODOT.

UNPROTECTED EXCAVATIONS OR REPAIRS LOCATED WITHIN THE ROADWAY SHALL BE BACK FILLED OR PLATED WHILE WORKERS ARE NOT PRESENT. IN LOCATIONS WHERE FILLS OR PLATES AFFECT THE PROFILE OF THE ROADWAY (E.G., FILLS APPRECIABLY HIGHER OR LOWER THAN THE ROAD SURFACE, TICK PLATES, ETC.), THE RESPONSIBLE PARTY SHOULD INSTALL A BUMP OR DIP SIGN , AS APPROPRIATE, ALONG THE EDGE OF THE ROADWAY, IMMEDIATELY ADJACENT TO THE LOCATION.

THE PERIMETER OF THE STEEL PLATE SHALL HAVE A GRADUAL TRANSITION OF 1V:3H. THE GRADUAL TRANSITION MAY BE ACCOMPLISHED BY ASPHALT WEDGING OR A MECHANICAL FASTENER, AS APPROVED BY THE ENGINEER. THE PLATE SHALL HAVE DELINEATION AND TREATED FOR SKID RESISTANCE.

FOR POSTED SPEED LIMITS LESS THAN 45 MPH:

(1) STEEL PLATE AHEAD, DIP, OR BUMP SIGNS SHOULD BE INSTALLED DEPENDING ON THE PROFILE OF THE ROADWAY OR USE OF STEEL PLATE ON THE ROADWAY.

FOR POSTED SPEED LIMITS GREATER THAN OR EQUAL TO 45 MPH:

(2) BUMP OR DIP SIGNS SHOULD BE INSTALLED DEPENDING ON THE PROFILE OF THE ROADWAY.

(3) STEEL PLATE AHEAD, DIP, OR BUMP SIGNS SHOULD BE INSTALLED DEPENDING ON THE PROFILE OF ROADWAY OR USE OF STEEL PLATE ON THE ROADWAY.

(4) SPEED LIMIT SIGNS MAY BE USED TO REDUCE SPEED THROUGHOUT THE EXCAVATION AREA.

TRAFFIC CONTROL LEGEND

SIGN (SINGLE SIDED)

EXCAVATION WORK AREA

SPEED	SIGN SPACING (ft.)		TAPER LENGTH (ft.)		OPTIONAL	CHANNELIZER SPACING (ft.)	
PERM. POSTED (MPH)	UN-DIVIDED (S)	DIVIDED (S)	SHOULDER (1) (T1)	LANE (2) (T2)	BUFFER LENGTH (ft) (B)	TAPERS	BUFFER/ WORK AREAS
0-35	200	–	–	–	–	–	–

1 Shoulder taper length based on 10 ft. (standard shoulder width) offset.
2. Lane taper length based on 12 ft. (standard lane width) offset.

STATE OF MISSOURI
JAMIE F. RANA
NUMBER PE-2005001034
PROFESSIONAL ENGINEER
Jami F. Rana
01:27:2024 11:33:12 AM
JAMIE F. RANA - CIVIL
MO-PE-2005001034

DATE PREPARED
1/24/2024

ROUTE	STATE
N	MO
DISTRICT	SHEET NO.
SL	51

COUNTY
ST. LOUIS

JOB NO.
J6S3599

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)

TRAFFIC CONTROL SHEET
EXCAVATIONS WITH STEEL PLATE OR BACK FILL - UNDIVIDED HIGHWAYS

DISCLAIMER
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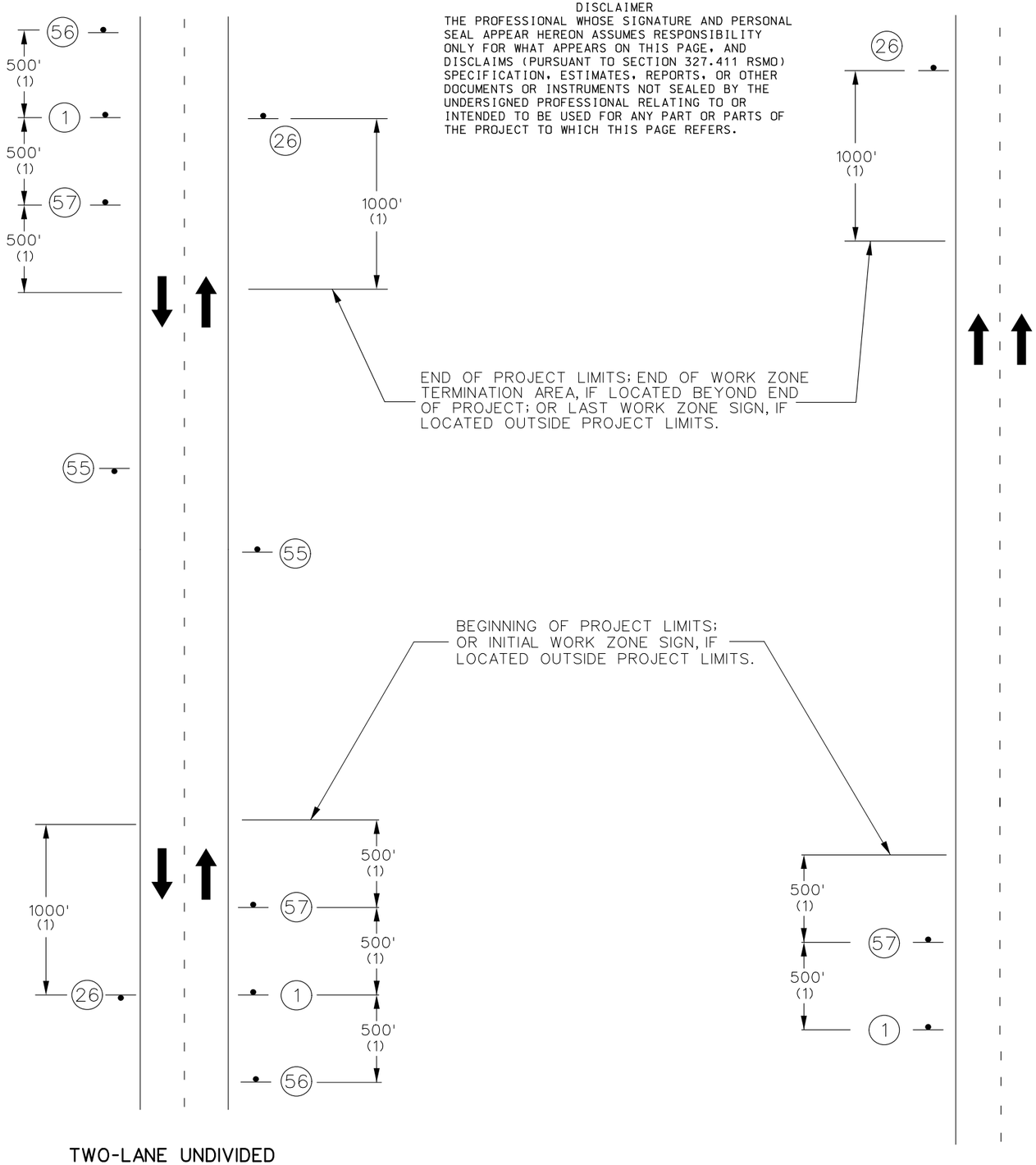
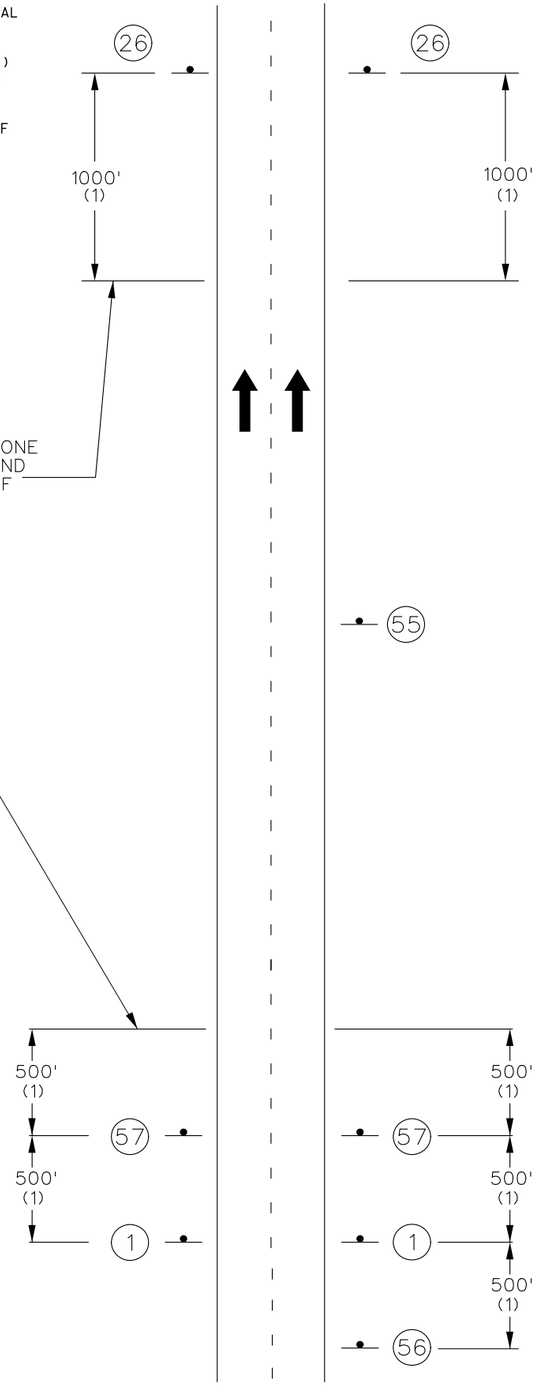


TWO-LANE UNDIVIDED



MULTI-LANE DIVIDED

BEGIN/END OF PROJECT SIGNING
(FOR USE ON ALL PROJECTS)

NOTES:
SIGN GO20-1 IS REQUIRED.

SIGN GO20-2 IS USED ON ALL PROJECTS WHERE SIGN GO20-1 IS USED.

OTHER SIGNS SUCH AS DETOUR OR ALTERNATE ROUTE SIGNING MAY BE USED OUTSIDE THE PROJECT LIMITS.

ANY EXISTING SIGNING THAT CONFLICTS WITH THE TRAFFIC CONTROL SIGNING SHALL BE COMPLETELY COVERED OR REMOVED.

(1) DISTANCE MAY BE ADJUSTED ACCORDING TO FIELD CONDITIONS. WHERE TRAFFIC BACKUPS ARE EXPECTED BEYOND THE ADVANCE WARNING AREA, ADDITIONAL SIGNING MAY BE NEEDED.

(2) SIGN CONST-7-72 OR CONST-7-48 IS PLACED 500 FEET BEFORE THE BEGINNING OF PROJECT LIMITS OR THE ROAD WORK AHEAD SIGN OR ROAD WORK NEXT XX MILES SIGN. IF USED, WHEN THESE SIGNS ARE LOCATED OUTSIDE THE PROJECT LIMITS.

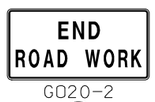
(3) CONST-5-96 OR CONST-5-48 SIGN IS PLACED IN A VISIBLE AREA WITHIN THE PROJECT LIMITS PROVIDED ITS PLACEMENT DOES NOT DISRUPT A SEQUENCE OF SIGNS. IF A VISIBLE LOCATION WITHIN THE PROJECT IS NOT AVAILABLE, THE SIGN MAY BE PLACED 500 FEET BEFORE SIGN CONST-7-72 OR CONST-7-48.

(4) THE "RATE OUR WORK ZONE" SIGN IS AVAILABLE IN TWO SIZES DEPENDING ON ROADWAY CONDITIONS. THE 48 IN. X 24 IN. SIGN IS USED ON LOW VOLUME ROUTES THAT CARRY 400 AADT OR LESS, ON PROJECTS THAT HAVE A DURATION OF 4 WEEKS OR LESS OR IN URBAN AREAS WHERE THERE IS INSUFFICIENT LIGHTS OF WAY FOR A SIX FOOT WIDE SIGN. THE 72 IN. X 36 IN. VERSION OF THE SIGN IS USED IN ALL OTHER APPLICATIONS, BUT CAN ALSO BE USED IN PLACE OF THE 48 IN. x 24 IN. SIGN IF ADDED EMPHASIS IS DEEMED NECESSARY.

(5) THE "POINT OF PRESENCE" SIGN IS AVAILABLE IN TWO SIZES DEPENDING ON ROADWAY CONDITIONS. THE 48 IN. X 36 IN. SIGN IS USED ON LOW VOLUME ROUTES THAT CARRY 400 AADT OR LESS, ON PROJECTS THAT HAVE A DURATION OF 4 WEEKS OR LESS OR IN URBAN AREAS WHERE THERE IS INSUFFICIENT RIGHTS OF WAY FOR AN EIGHT FOOT WIDE SIGN. THE 96 IN. X 48 IN. VERSION OF THE SIGN IS USED IN ALL OTHER APPLICATIONS, BUT CAN ALSO BE USED IN PLACE OF THE 48 IN. x 36 IN. SIGN IF ADDED EMPHASIS IS DEEMED NECESSARY.

(6) THE "WORK ZONE NO PHONE ZONE" SIGN IS PLACED A MINIMUM OF 500 FEET BEFORE THE ROAD WORK AHEAD SIGN.

GO20-1
(1)



GO20-2
(26)

SPECIAL (6)
(57)

CONST-7-72 (2)
CONST-7-48 (2)(4)
(56)

CONST-5-96 (3)
CONST-5-48 (3)(5)
(55)

STATE OF MISSOURI
JAMIE F. RANA
NUMBER PE-2005001034
PROFESSIONAL ENGINEER
Jamie F. Rana
01/27/2024 11:34:01 AM
JAMIE F. RANA - CIVIL
MO-PE-2005001034

DATE PREPARED
1/24/2024

ROUTE	STATE
N	MO
DISTRICT	SHEET NO.
SL	52

COUNTY
ST. LOUIS

JOB NO.
J6S3599

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)

TRAFFIC CONTROL PLANS
BEGIN/END SIGNING

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

DISCLAIMER
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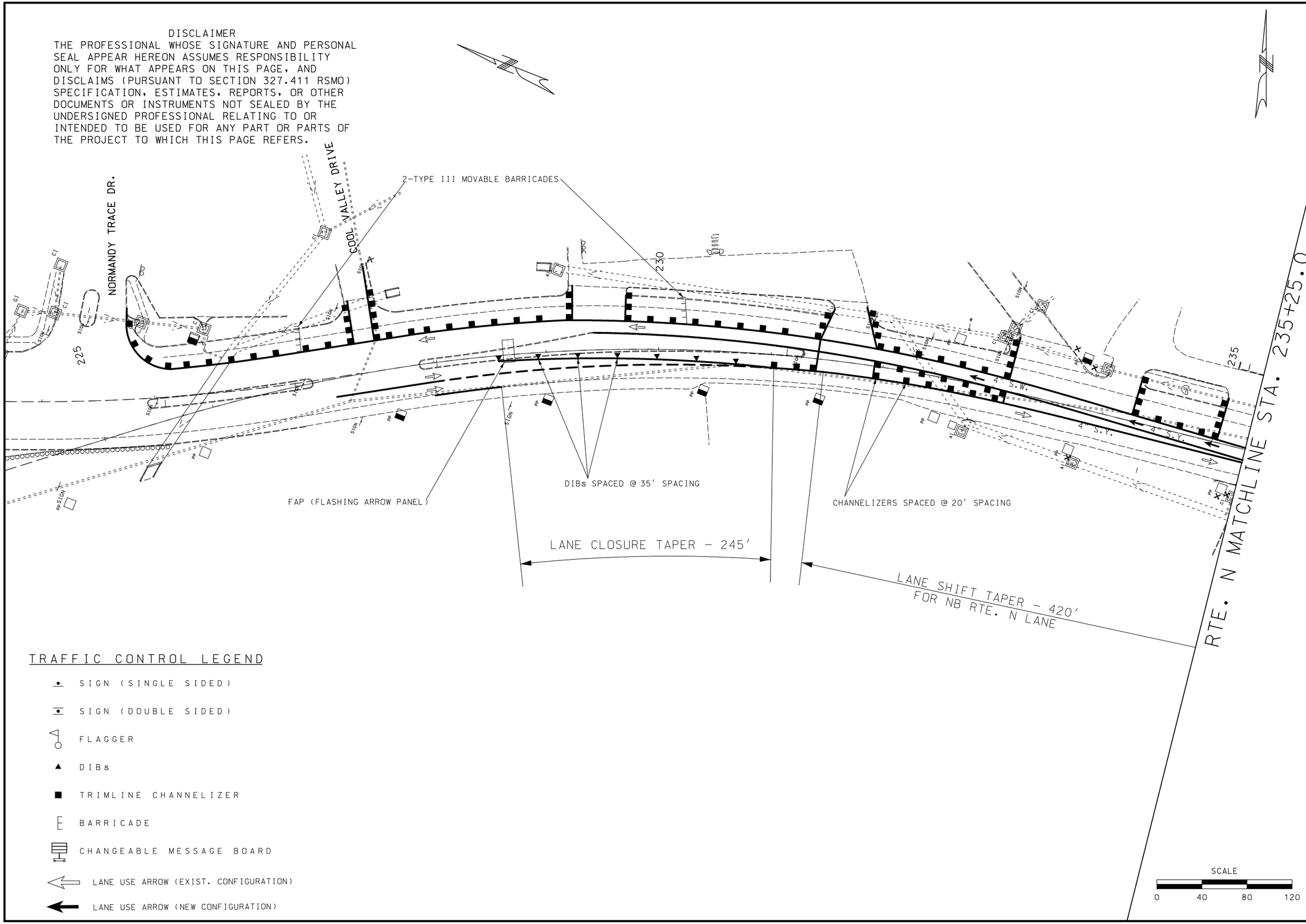

TRAFFIC CONTROL LEGEND

- SIGN (SINGLE SIDED)
- SIGN (DOUBLE SIDED)
- FLAGGER
- DIBs
- TRIMLINE CHANNELIZER
- BARRICADE
- CHANGEABLE MESSAGE BOARD
- LANE USE ARROW (EXIST. CONFIGURATION)
- LANE USE ARROW (NEW CONFIGURATION)

STATE OF MISSOURI
JAMIE F. RANA
NUMBER PE-2005001034
PROFESSIONAL ENGINEER
Jamie F. Rana
01/27/2024 12:17:43 PM
JAMIE F. RANA - CIVIL
MO-PE-2005001034

DATE PREPARED
1/24/2024

ROUTE	STATE
N	MO
DISTRICT	SHEET NO.
SL	53

COUNTY
ST. LOUIS

JOB NO.
J6S3599

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)

TRAFFIC CONTROL SHEET
STAGE 1
CLOSE NB LANES OF RTE. N SOUTH OF NORMANDY TRACE DR. TO RTE. 115 (NATURAL BRIDGE)

DISCLAIMER

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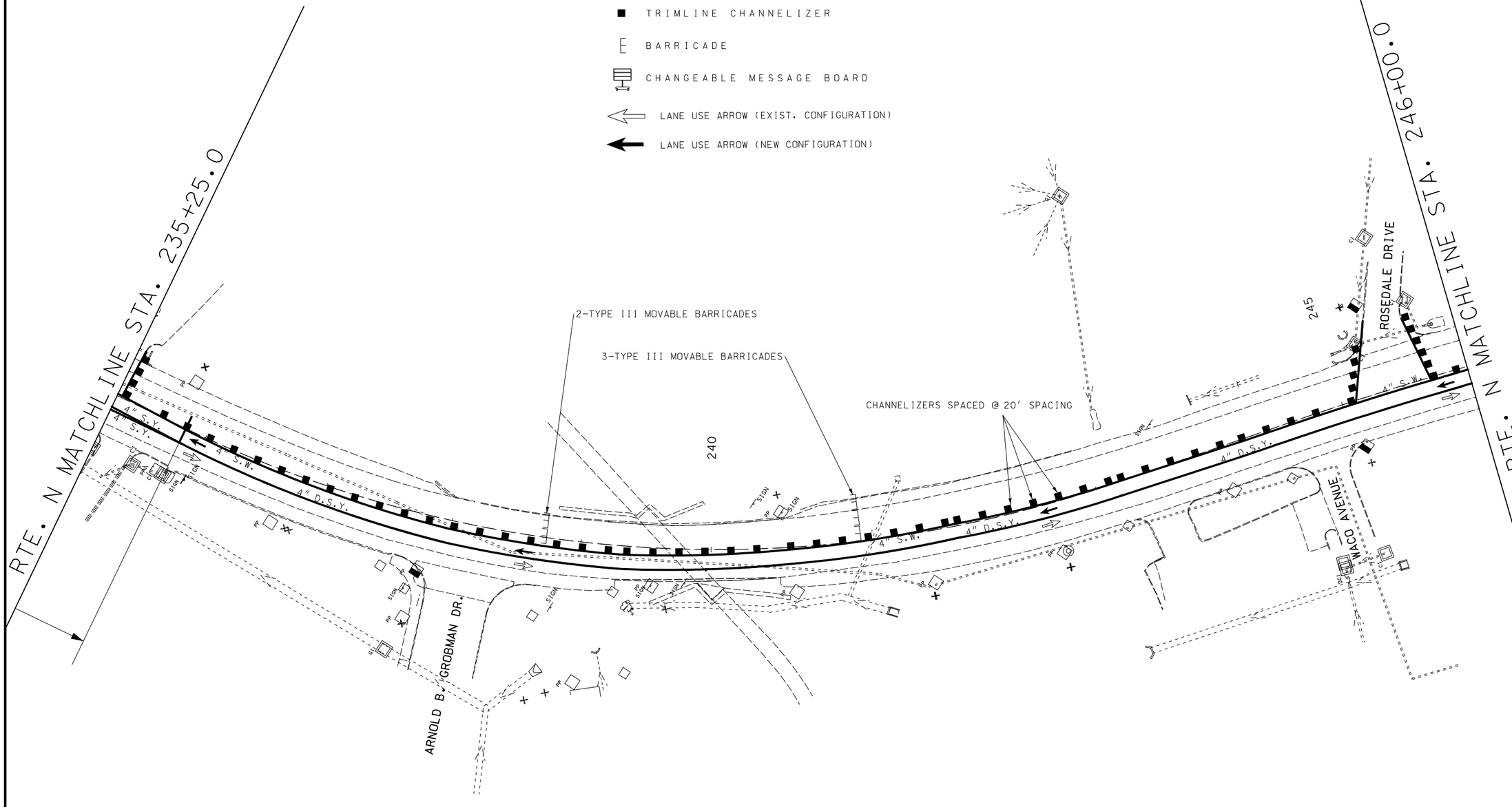
TRAFFIC CONTROL LEGEND

- SIGN (SINGLE SIDED)
- SIGN (DOUBLE SIDED)
- FLAGGER
- DIBs
- TRIMLINE CHANNELIZER
- BARRICADE
- CHANGEABLE MESSAGE BOARD
- LANE USE ARROW (EXIST. CONFIGURATION)
- LANE USE ARROW (NEW CONFIGURATION)



NOTE: CONTRACTOR SHALL STRIPE 2 LINES OF 6" S.W. TO COVER EXIST. D.S.Y.

STATE OF MISSOURI
JAMIE F. RANA
NUMBER PE-2005001034
PROFESSIONAL ENGINEER
Jamie F. Rana
01/27/2024 12:19:11 PM
JAMIE F. RANA - CIVIL
MO-PE-2005001034

DATE PREPARED
1/24/2024

ROUTE	STATE
N	MO
DISTRICT	SHEET NO.
SL	54

COUNTY
ST. LOUIS

JOB NO.
J6S3599

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)

TRAFFIC CONTROL SHEET
STAGE 1
CLOSE NB LANES OF RTE. N
SOUTH OF NORMANDY TRACE DR.
TO RTE. 115 (NATURAL BRIDGE)

DISCLAIMER

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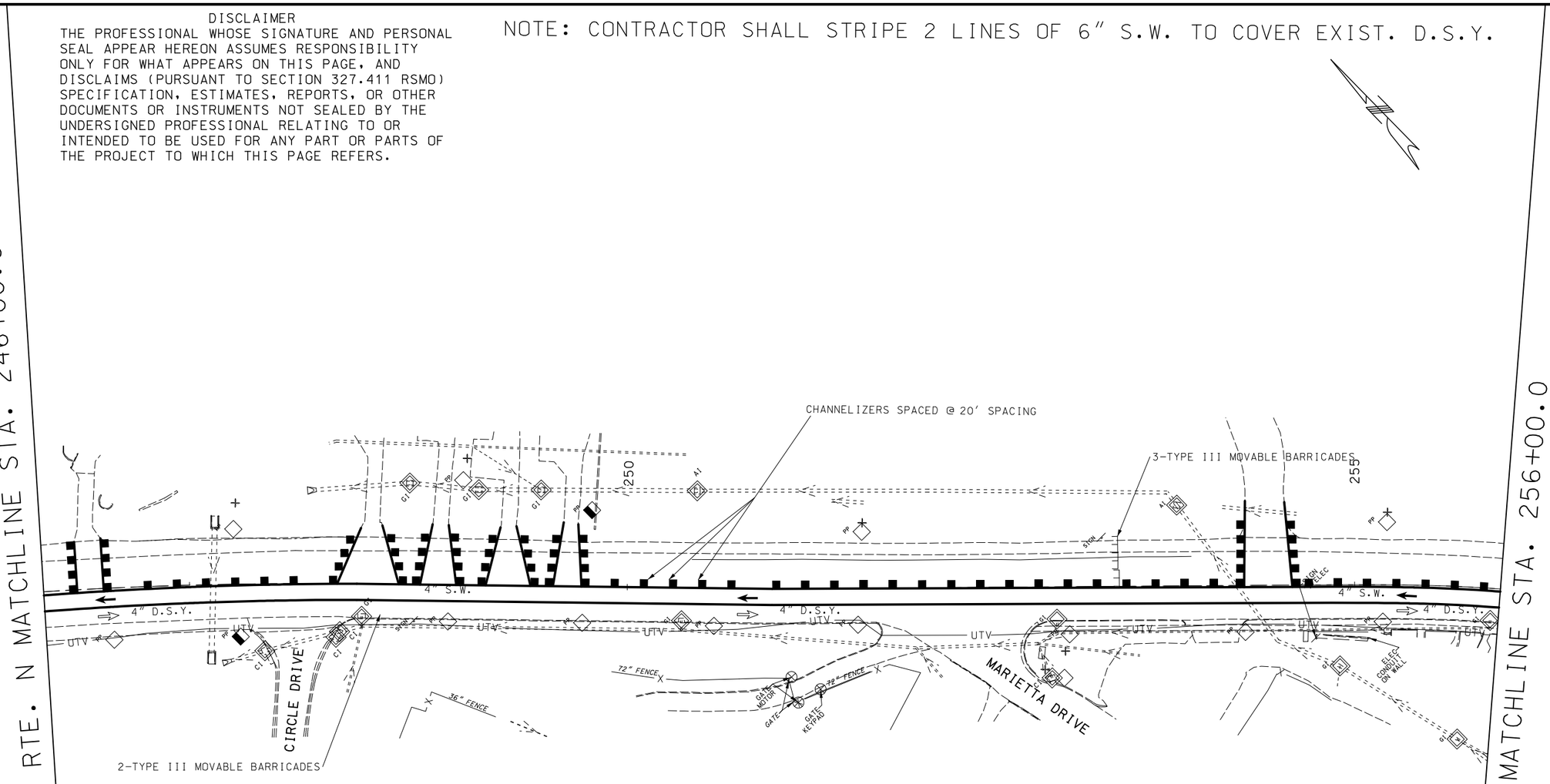
NOTE: CONTRACTOR SHALL STRIPE 2 LINES OF 6" S.W. TO COVER EXIST. D.S.Y.



TRAFFIC CONTROL LEGEND

- SIGN (SINGLE SIDED)
- SIGN (DOUBLE SIDED)
- FLAGGER
- DIBs
- TRIMLINE CHANNELIZER
- BARRICADE
- CHANGEABLE MESSAGE BOARD
- LANE USE ARROW (EXIST. CONFIGURATION)
- LANE USE ARROW (NEW CONFIGURATION)

SCALE

0 40 80 120

STATE OF MISSOURI
JAMIE F. RANA
NUMBER PE-2005001034
PROFESSIONAL ENGINEER

Jamie F. Rana
01:27:2024 12:20:04 PM
JAMIE F. RANA - CIVIL
MO-PE-2005001034

DATE PREPARED
1/24/2024

ROUTE	STATE
N	MO
DISTRICT	SHEET NO.
SL	55

COUNTY
ST. LOUIS

JOB NO.
J6S3599

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)

TRAFFIC CONTROL SHEET
STAGE 1
CLOSE NB LANES OF RTE. N SOUTH OF NORMANDY TRACE DR. TO RTE. 115 (NATURAL BRIDGE)

DISCLAIMER
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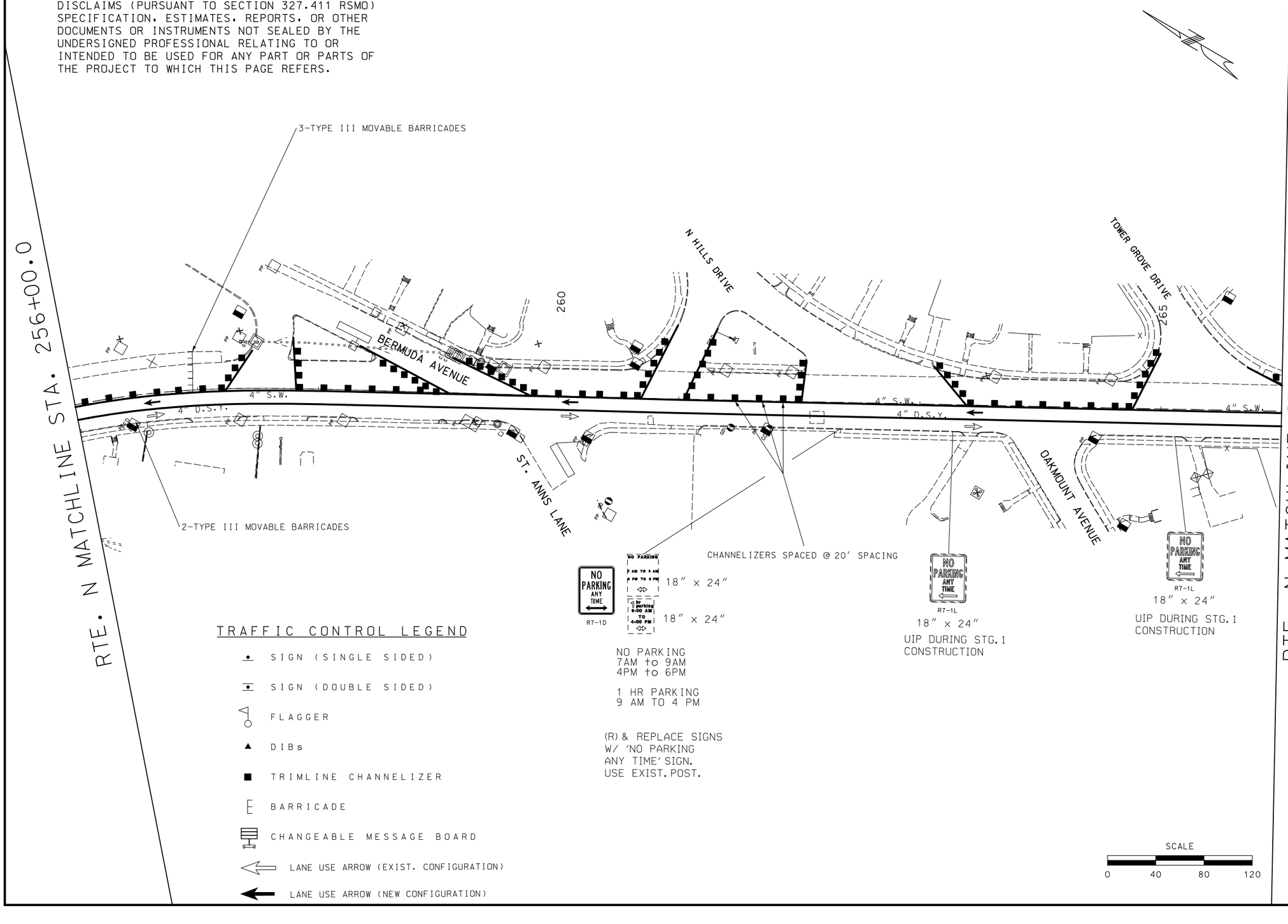
NOTE: CONTRACTOR SHALL STRIPE 2 LINES OF 6" S.W. TO COVER EXIST. D.S.Y.



TRAFFIC CONTROL LEGEND

- SIGN (SINGLE SIDED)
- SIGN (DOUBLE SIDED)
- FLAGGER
- DIBs
- TRIMLINE CHANNELIZER
- BARRICADE
- CHANGEABLE MESSAGE BOARD
- LANE USE ARROW (EXIST. CONFIGURATION)
- LANE USE ARROW (NEW CONFIGURATION)

STATE OF MISSOURI
JAMIE F. RANA
NUMBER PE-2005001034
PROFESSIONAL ENGINEER
Jamie F. Rana
01/27/2024 12:20:29 PM
JAMIE F. RANA - CIVIL
MO-PE-2005001034

DATE PREPARED
1/24/2024

ROUTE	STATE
N	MO
DISTRICT	SHEET NO.
SL	56

COUNTY
ST. LOUIS

JOB NO.
J6S3599

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)

TRAFFIC CONTROL SHEET
STAGE 1
CLOSE NB LANES OF RTE. N
SOUTH OF NORMANDY TRACE DR.
TO RTE. 115 (NATURAL BRIDGE)

NOTE: CONTRACTOR SHALL STRIPE 2 LINES OF 6" S.W. TO COVER EXIST. D.S.Y.

DISCLAIMER
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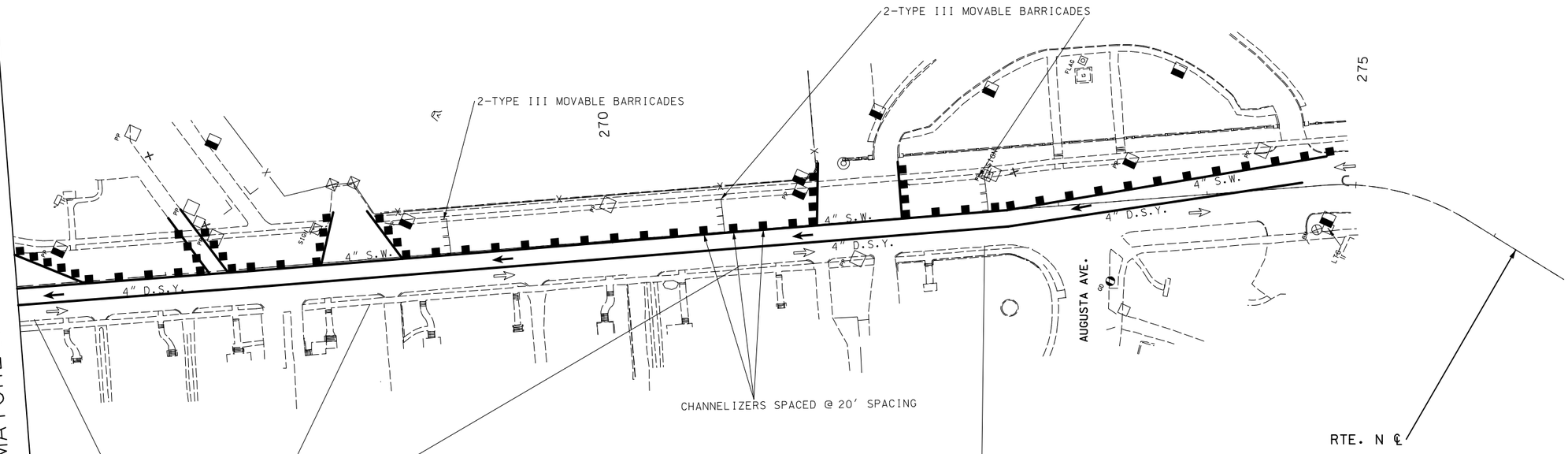
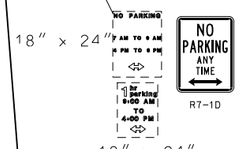




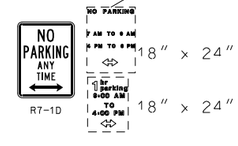
18" × 24"

18" × 24"

NO PARKING
7AM to 9AM
4PM to 6PM

1 HR PARKING
9 AM TO 4 PM

(R) & REPLACE SIGNS
W/ 'NO PARKING
ANY TIME' SIGN.
USE EXIST. POST.



18" × 24"

18" × 24"

NO PARKING
7AM to 9AM
4PM to 6PM

1 HR PARKING
9 AM TO 4 PM

(R) & REPLACE SIGNS
W/ 'NO PARKING
ANY TIME' SIGN.
USE EXIST. POST.

18" × 24"

18" × 24"

NO PARKING
7AM to 9AM
4PM to 6PM

1 HR PARKING
9 AM TO 4 PM

(R) & REPLACE SIGNS
W/ 'NO PARKING
ANY TIME' SIGN.
USE EXIST. POST.

18" × 24"

UIP DURING STG. 1
CONSTRUCTION

SCALE
0 40 80 120

TRAFFIC CONTROL LEGEND

- SIGN (SINGLE SIDED)
- SIGN (DOUBLE SIDED)
- FLAGGER
- DIBs
- TRIMLINE CHANNELIZER
- BARRICADE
- CHANGEABLE MESSAGE BOARD
- LANE USE ARROW (EXIST. CONFIGURATION)
- LANE USE ARROW (NEW CONFIGURATION)

STATE OF MISSOURI
JAMIE F. RANA
NUMBER PE-2005001034
PROFESSIONAL ENGINEER
Jami F. Rana
01/27/2024 12:20:52 PM
JAMIE F. RANA - CIVIL
MO-PE-2005001034

DATE PREPARED
1/24/2024

ROUTE	STATE
N	MO
DISTRICT	SHEET NO.
SL	57

COUNTY
ST. LOUIS

JOB NO.
J6S3599

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)

TRAFFIC CONTROL SHEET
STAGE 1
CLOSE NB LANES OF RTE. N
SOUTH OF NORMANDY TRACE DR.
TO RTE. 115 (NATURAL BRIDGE)

DISCLAIMER
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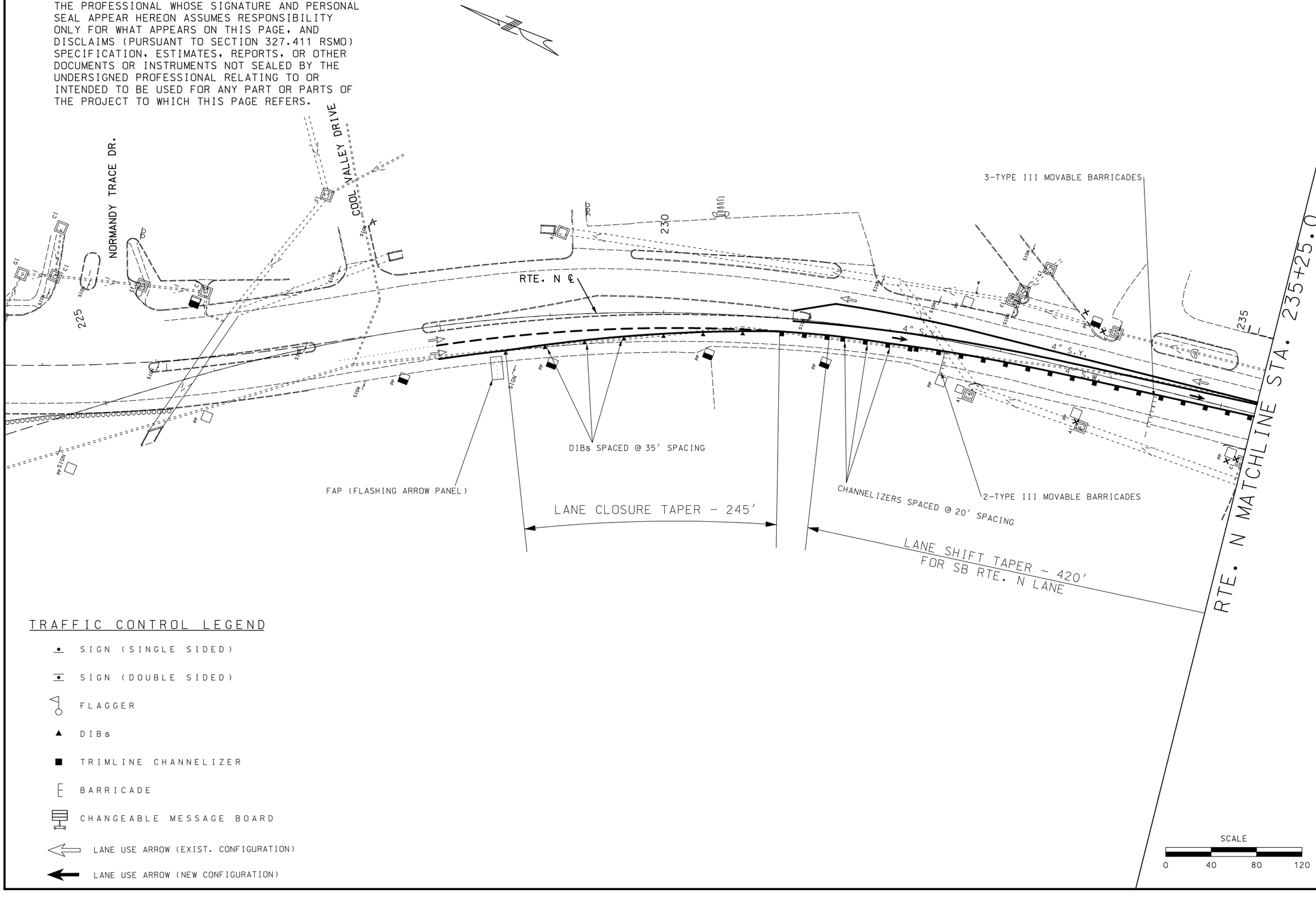

TRAFFIC CONTROL LEGEND

- SIGN (SINGLE SIDED)
- SIGN (DOUBLE SIDED)
- FLAGGER
- DIBs
- TRIMLINE CHANNELIZER
- BARRICADE
- CHANGEABLE MESSAGE BOARD
- LANE USE ARROW (EXIST. CONFIGURATION)
- LANE USE ARROW (NEW CONFIGURATION)

STATE OF MISSOURI
JAMIE F. RANA
NUMBER PE-2005001034
PROFESSIONAL ENGINEER
Jamie F. Rana
01/27/2024 12:21:33 PM
JAMIE F. RANA - CIVIL
MO-PE-2005001034

DATE PREPARED
1/24/2024

ROUTE	STATE
N	MO
DISTRICT	SHEET NO.
SL	58

COUNTY
ST. LOUIS

JOB NO.
J6S3599

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)

TRAFFIC CONTROL SHEET
STAGE 2
CLOSE SB LANES OF RTE. N
SOUTH OF NORMANDY TRACE DR.
TO RTE. 115 (NATURAL BRIDGE)

DISCLAIMER

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- SIGN (SINGLE SIDED)
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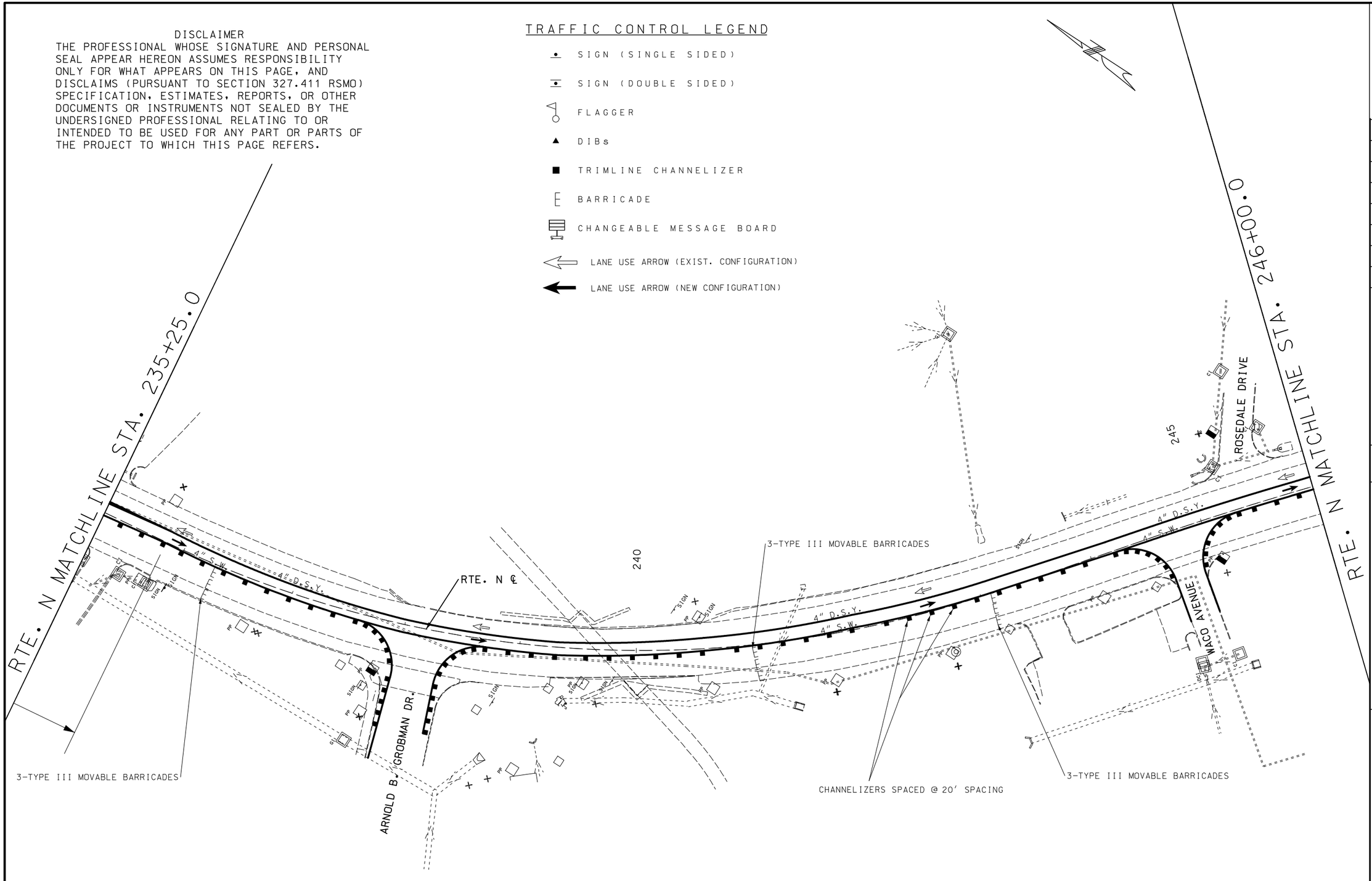
- LANE USE ARROW (NEW CONFIGURATION)



NOTE: CONTRACTOR SHALL STRIPE 2 LINES OF 6" S.W. TO COVER EXIST. D.S.Y.

SCALE
0 40 80 120

STATE OF MISSOURI
JAMIE F. RANA
NUMBER PE-2005001034
PROFESSIONAL ENGINEER
Jamie F. Rana
01/27/2004 12:21:54 PM
JAMIE F. RANA - CIVIL
MO-PE-2005001034

DATE PREPARED
1/24/2024

ROUTE	STATE
N	MO
DISTRICT	SHEET NO.
SL	59

COUNTY
ST. LOUIS

JOB NO.
J6S3599

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)

TRAFFIC CONTROL SHEET
STAGE 2
CLOSE SB LANES OF RTE. N SOUTH OF NORMANDY TRACE DR. TO RTE. 115 (NATURAL BRIDGE)

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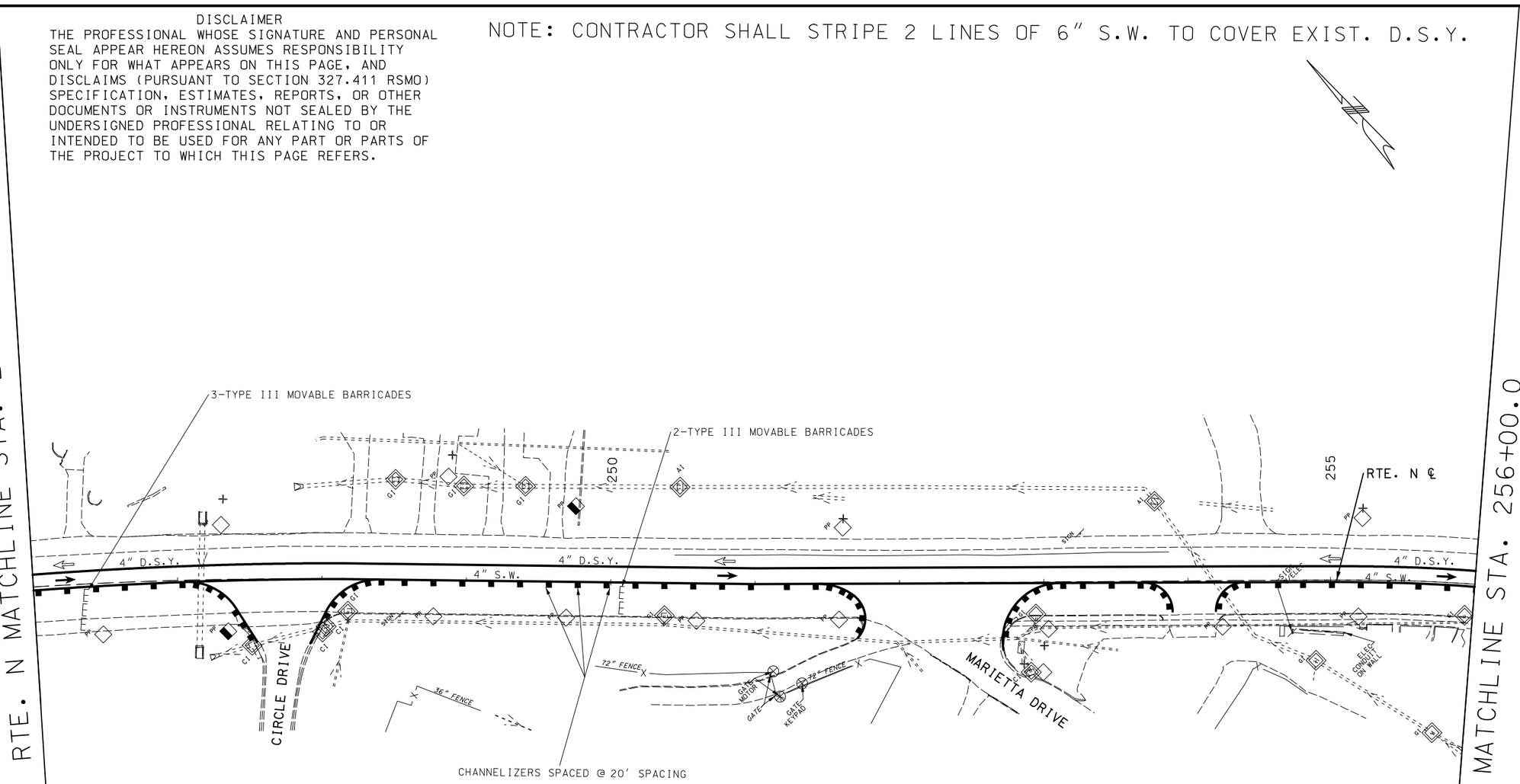

TRAFFIC CONTROL LEGEND

- SIGN (SINGLE SIDED)
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- FLAGGER
- DIBs
- TRIMLINE CHANNELIZER
- BARRICADE
- CHANGEABLE MESSAGE BOARD
- LANE USE ARROW (EXIST. CONFIGURATION)
- LANE USE ARROW (NEW CONFIGURATION)

SCALE
0 40 80 120

STATE OF MISSOURI
JAMIE F. RANA
NUMBER PE-2005001034
PROFESSIONAL ENGINEER
Jamie F. Rana
01/27/2024 12:22:12 PM
JAMIE F. RANA - CIVIL
MO-PE-2005001034

DATE PREPARED
1/24/2024

ROUTE	STATE
N	MO
DISTRICT	SHEET NO.
SL	60

COUNTY
ST. LOUIS

JOB NO.
J6S3599

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)

TRAFFIC CONTROL SHEET
STAGE 2
CLOSE SB LANES OF RTE. N
SOUTH OF NORMANDY TRACE DR.
TO RTE. 115 (NATURAL BRIDGE)

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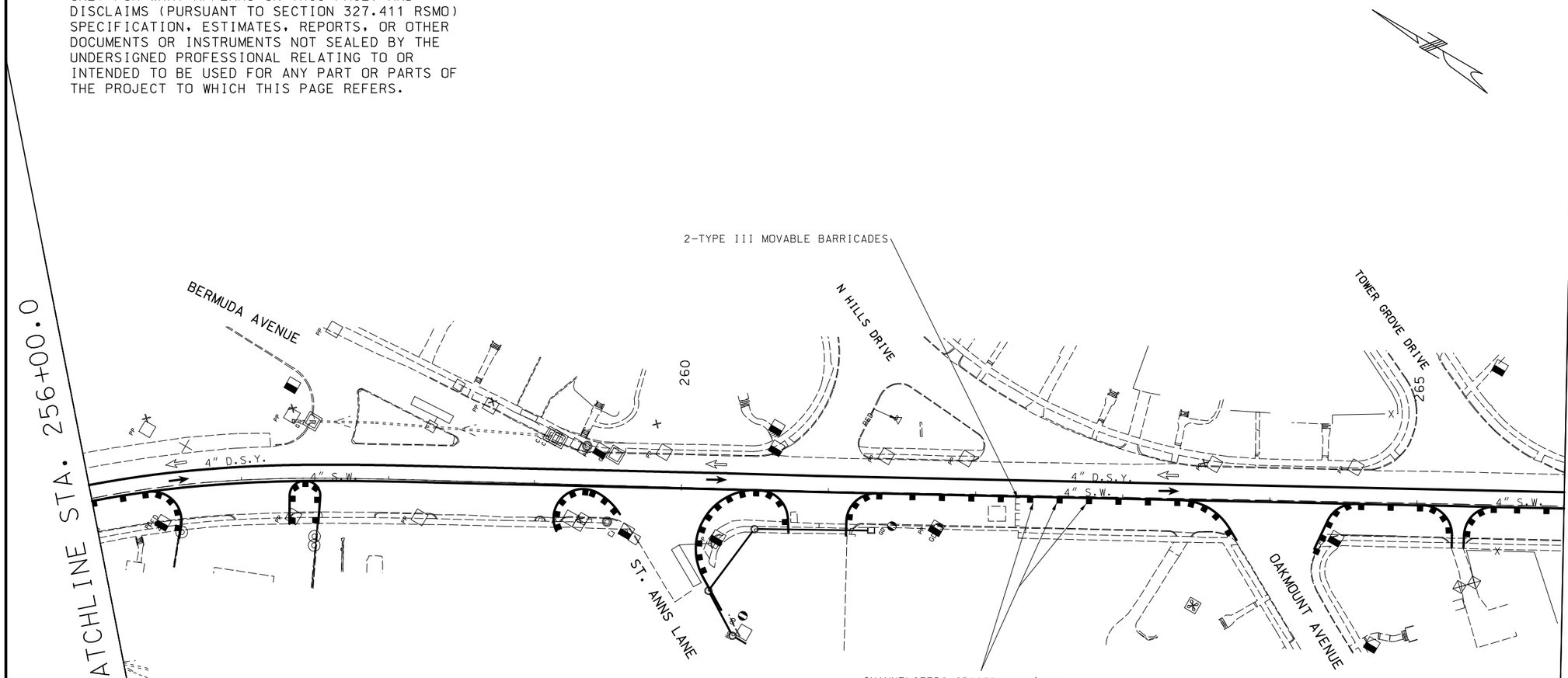
NOTE: CONTRACTOR SHALL STRIPE 2 LINES OF 6" S.W. TO COVER EXIST. D.S.Y.



TRAFFIC CONTROL LEGEND

- SIGN (SINGLE SIDED)
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- FLAGGER
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- TRIMLINE CHANNELIZER
- BARRICADE
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- LANE USE ARROW (EXIST. CONFIGURATION)
- LANE USE ARROW (NEW CONFIGURATION)

SCALE
0 40 80 120

STATE OF MISSOURI
JAMIE F. RANA
NUMBER PE-2005001034
PROFESSIONAL ENGINEER
Jamie F. Rana
01/27/2024 12:22:34 PM
JAMIE F. RANA - CIVIL
MO-PE-2005001034

DATE PREPARED
1/24/2024

ROUTE	STATE
N	MO
DISTRICT	SHEET NO.
SL	61

COUNTY
ST. LOUIS

JOB NO.
J6S3599

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)

TRAFFIC CONTROL SHEET
STAGE 2
CLOSE SB LANES OF RTE. N
SOUTH OF NORMANDY TRACE DR.
TO RTE. 115 (NATURAL BRIDGE)

NOTE: CONTRACTOR SHALL STRIPE 2 LINES OF 6" S.W. TO COVER EXIST. D.S.Y.

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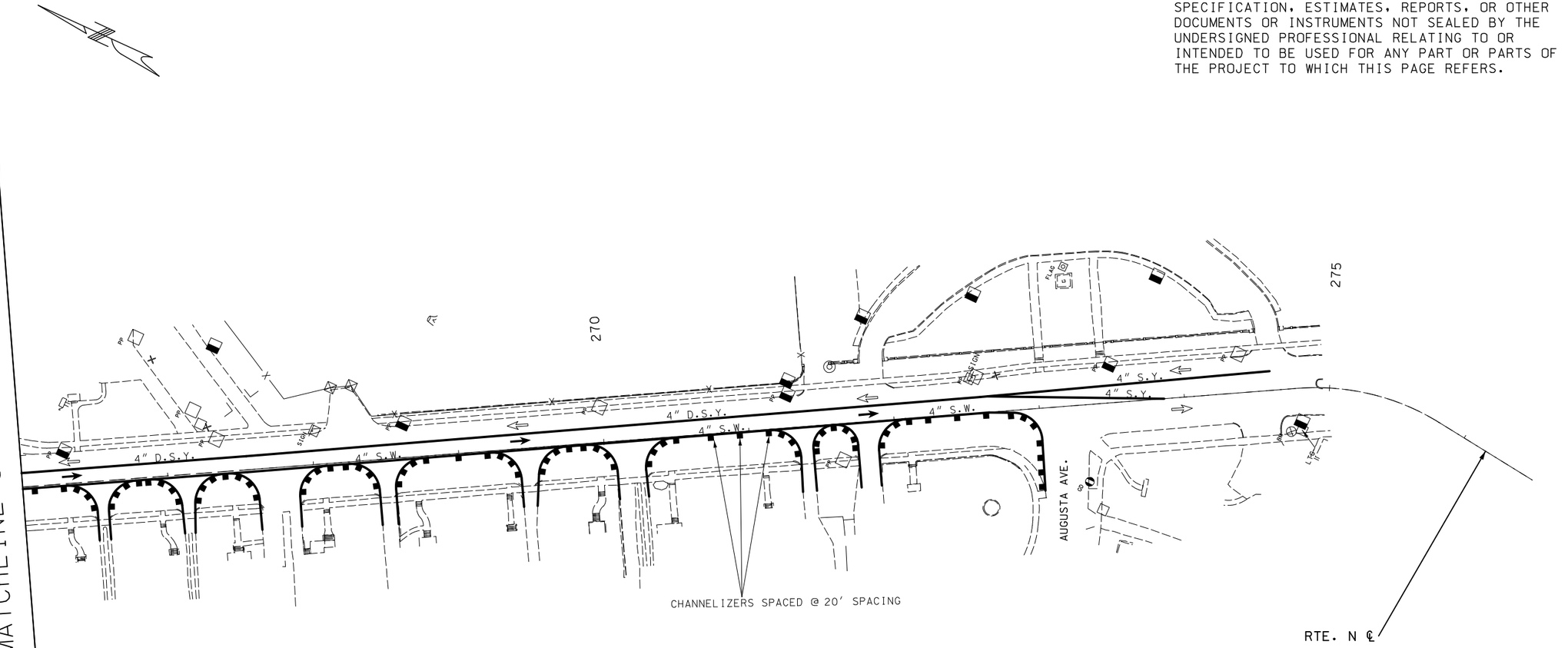

TRAFFIC CONTROL LEGEND

- SIGN (SINGLE SIDED)
- SIGN (DOUBLE SIDED)
- FLAGGER
- DIBs
- TRIMLINE CHANNELIZER
- BARRICADE
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- LANE USE ARROW (EXIST. CONFIGURATION)
- LANE USE ARROW (NEW CONFIGURATION)

SCALE
0 40 80 120

STATE OF MISSOURI
JAMIE F. RANA
NUMBER PE-2005001034
PROFESSIONAL ENGINEER
Jamie F. Rana
01/27/2024 12:23:20 PM
JAMIE F. RANA - CIVIL
MO-PE-2005001034

DATE PREPARED
1/24/2024

ROUTE	STATE
N	MO
DISTRICT	SHEET NO.
SL	62

COUNTY
ST. LOUIS

JOB NO.
J6S3599

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)

TRAFFIC CONTROL SHEET
STAGE 2
CLOSE SB LANES OF RTE. N SOUTH OF NORMANDY TRACE DR. TO RTE. 115 (NATURAL BRIDGE)

DRAWING NOT TO SCALE

COVER SIGN – USE CMS BOARD TO DETOUR TRAFFIC TO EXIT 241B (ROUTE U/LUCAS-HUNT)

UMSL
UNIVERSITY OF
MISSOURI - ST LOUIS
Next Right

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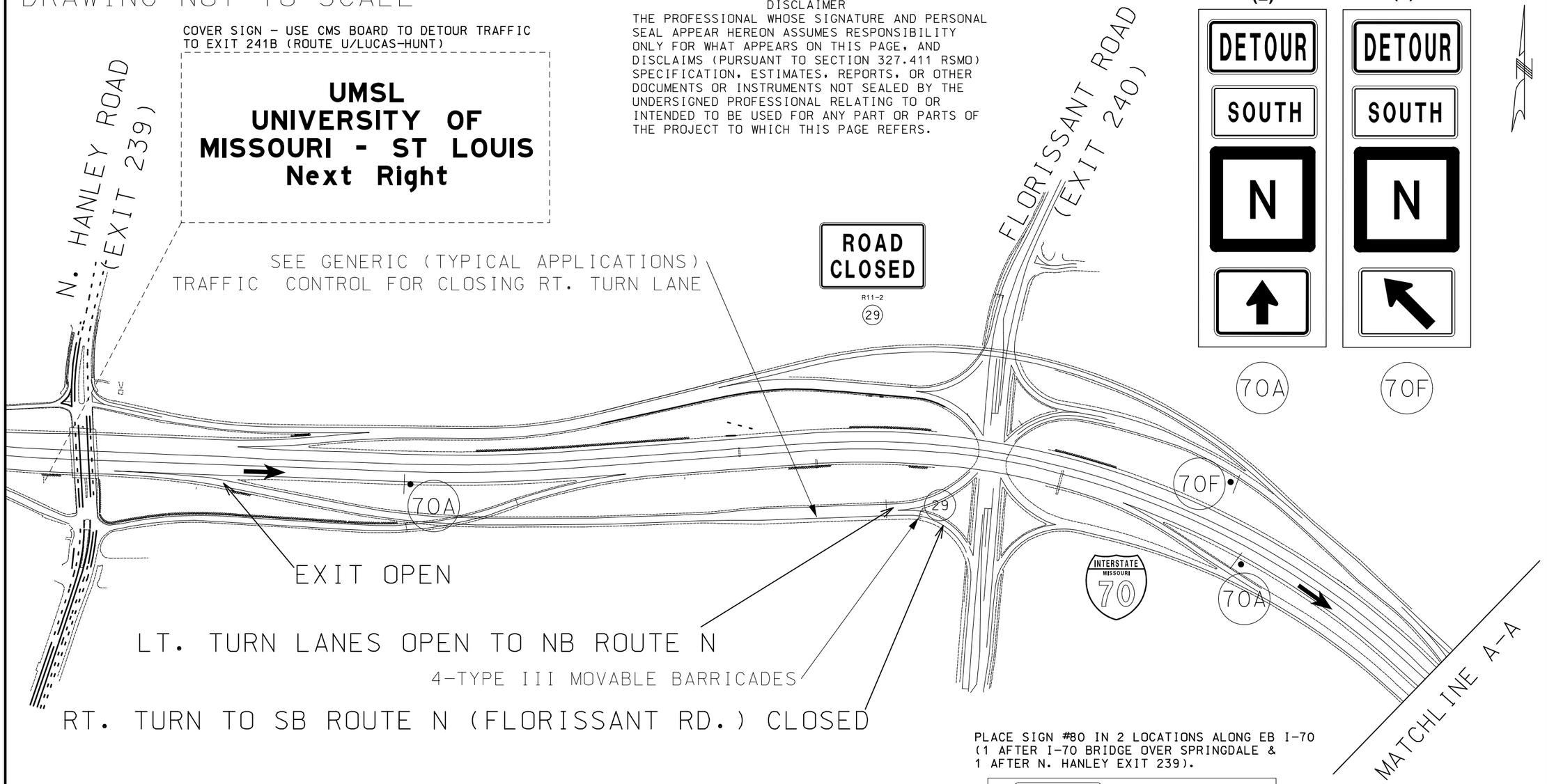


TRAFFIC CONTROL RT. TURN CLOSURE FROM EB I-70 TO SB ROUTE N

1. WHEN RT. TURN FROM EB I-70 OFF-RAMP TO SB ROUTE N IS CLOSED, DETOUR TRAFFIC TO EXIT 241B - LUCAS-HUNT (ROUTE U).
2. LT. TURNS FROM EB I-70 OFF-RAMP TO NB ROUTE N SHALL REMAIN OPEN AT ALL TIMES DURING RECONSTRUCTION OF RT. TURN TO SB ROUTE N.
3. SEE TRAFFIC CONTROL PLANS FOR ADDITIONAL SIGNING & JSPs FOR TIMES WHEN LANES/RAMPS MAY BE CLOSED.
4. ALL SIGNS ARE PORTABLE UNLESS OTHERWISE NOTED.
5. ALL EXISTING SIGNS THAT CONFLICT WITH THE PROPOSED TCP SHALL BE COVERED. NO DIRECT PAY TO COVER EXISTING SIGNS.
6. ALL CMS MESSAGES TO BE APPROVED BY THE ENGINEER.
7. EXACT SIGN LOCATIONS TO BE DETERMINED BY THE ENGINEER.

PLACE SIGN #80 IN 2 LOCATIONS ALONG EB I-70 (1 AFTER I-70 BRIDGE OVER SPRINGDALE & 1 AFTER N. HANLEY EXIT 239).

80

SOUTH
N
CLOSED AT EXIT 240

DETOUR USE EXIT 241B

GROUND-MOUNT SIGN

STATE OF MISSOURI
JAMIE F. RANA
NUMBER PE-2005001034
PROFESSIONAL ENGINEER
Jamie F. Rana
01/27/2024 12:24:09 PM
JAMIE F. RANA - CIVIL
MO-PE-2005001034

DATE PREPARED
1/24/2024

ROUTE	STATE
N	MO
DISTRICT	SHEET NO.
SL	63

COUNTY
ST. LOUIS

JOB NO.
J6S3599

CONTRACT ID.

PROJECT NO.

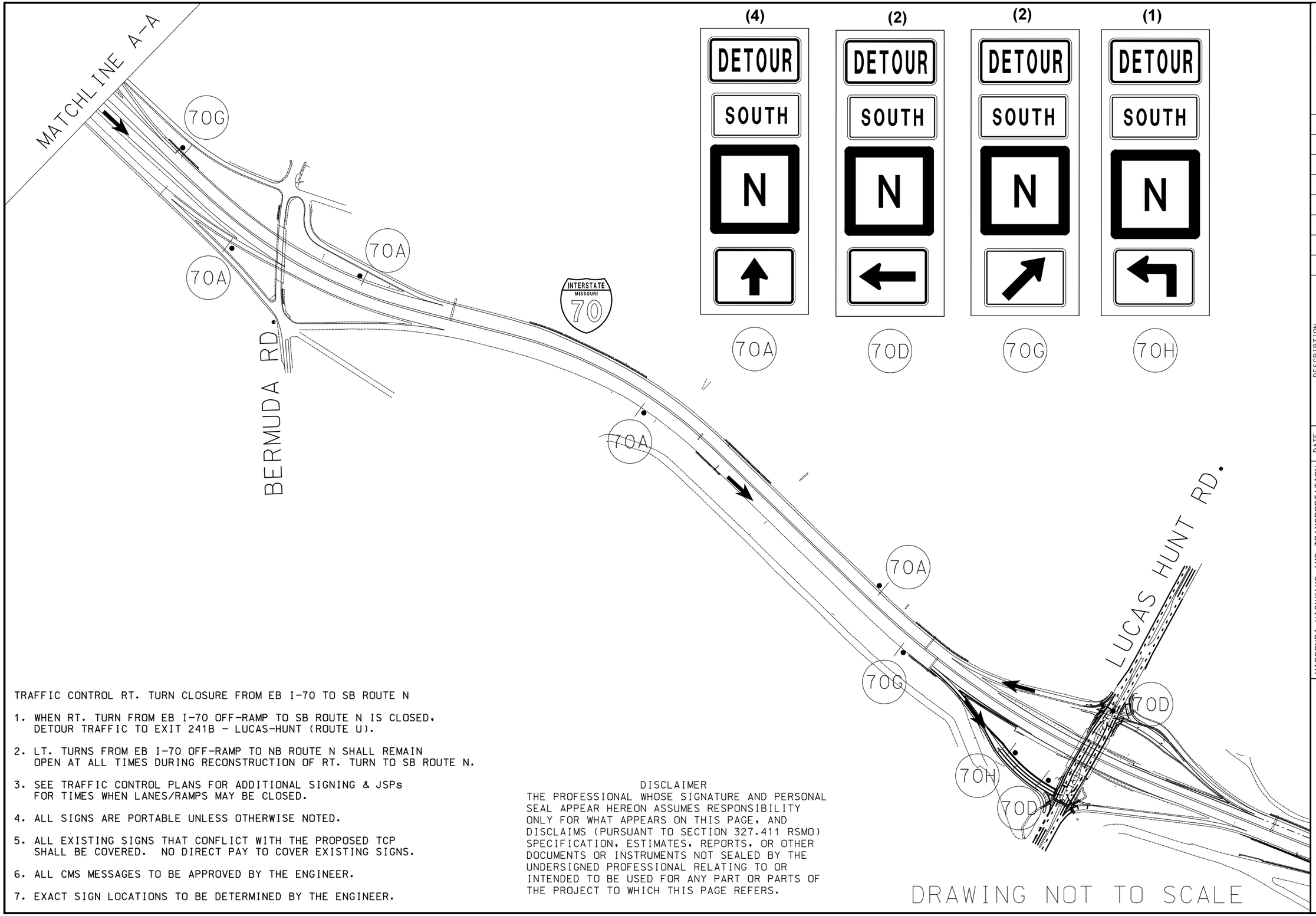
BRIDGE NO.

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)

TRAFFIC CONTROL PLAN
DETOUR OVERVIEW DURING
EB I-70 TO
SB ROUTE N CLOSURE



TRAFFIC CONTROL RT. TURN CLOSURE FROM EB I-70 TO SB ROUTE N

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DRAWING NOT TO SCALE

STATE OF MISSOURI
JAMIE F. RANA
NUMBER PE-2005001034
PROFESSIONAL ENGINEER
Jami F. Rana
01/27/2024 12:24:35 PM
JAMIE F. RANA - CIVIL
MO-PE-2005001034

DATE PREPARED
1/24/2024

ROUTE	STATE
N	MO
DISTRICT	SHEET NO.
SL	64

COUNTY
ST. LOUIS

JOB NO.
J6S3599

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)

TRAFFIC CONTROL PLAN DETOUR OVERVIEW DURING EB I-70 TO SB ROUTE N CLOSURE

DISCLAIMER
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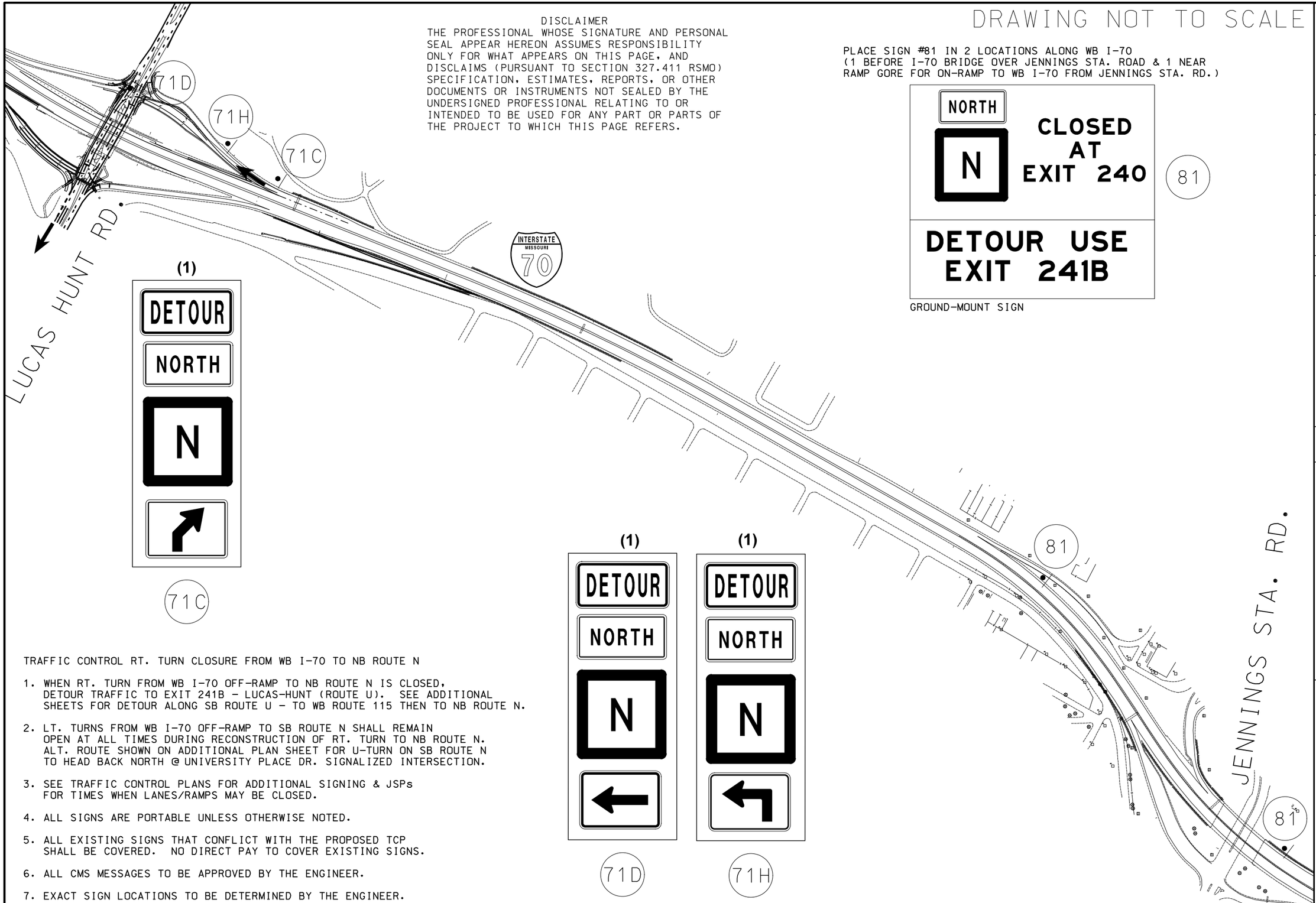
DRAWING NOT TO SCALE

PLACE SIGN #81 IN 2 LOCATIONS ALONG WB I-70
(1 BEFORE I-70 BRIDGE OVER JENNINGS STA. ROAD & 1 NEAR RAMP GORE FOR ON-RAMP TO WB I-70 FROM JENNINGS STA. RD.)

GROUND-MOUNT SIGN



(1)

71C

(1)

71D

(1)

71H

TRAFFIC CONTROL RT. TURN CLOSURE FROM WB I-70 TO NB ROUTE N

1. WHEN RT. TURN FROM WB I-70 OFF-RAMP TO NB ROUTE N IS CLOSED, DETOUR TRAFFIC TO EXIT 241B - LUCAS-HUNT (ROUTE U). SEE ADDITIONAL SHEETS FOR DETOUR ALONG SB ROUTE U - TO WB ROUTE 115 THEN TO NB ROUTE N.
2. LT. TURNS FROM WB I-70 OFF-RAMP TO SB ROUTE N SHALL REMAIN OPEN AT ALL TIMES DURING RECONSTRUCTION OF RT. TURN TO NB ROUTE N. ALT. ROUTE SHOWN ON ADDITIONAL PLAN SHEET FOR U-TURN ON SB ROUTE N TO HEAD BACK NORTH @ UNIVERSITY PLACE DR. SIGNALIZED INTERSECTION.
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STATE OF MISSOURI
JAMIE F. RANA
NUMBER PE-2005001034
PROFESSIONAL ENGINEER
Jamie F. Rana
01/27/2024 12:25:04 PM
JAMIE F. RANA - CIVIL
MO-PE-2005001034

DATE PREPARED
1/24/2024

ROUTE	STATE
N	MO
DISTRICT	SHEET NO.
SL	65

COUNTY
ST. LOUIS

JOB NO.
J6S3599

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)

TRAFFIC CONTROL PLAN DETOUR OVERVIEW DURING WB I-70 TO NB ROUTE N CLOSURE

DRAWING NOT TO SCALE

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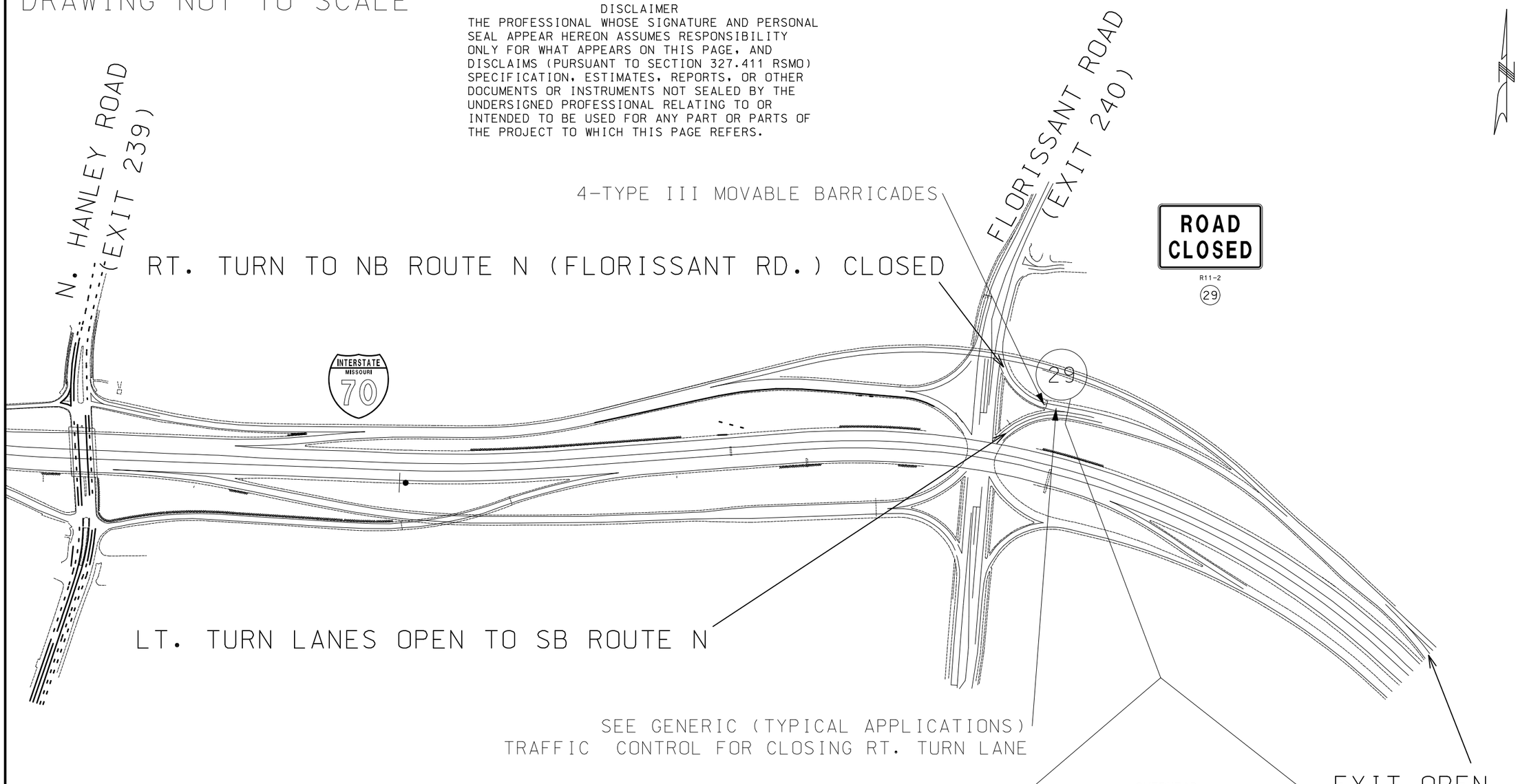

TRAFFIC CONTROL RT. TURN CLOSURE FROM WB I-70 TO NB ROUTE N

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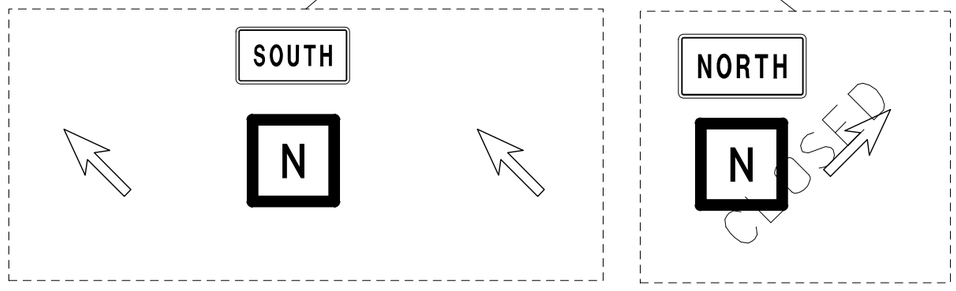
OVERHEAD
EXIST. SIGN TRUSS



INSTALL 'CLOSED' PLAQUE ON NB SIGN WHEN RT. TURN IS CLOSED

STATE OF MISSOURI
JAMIE F. RANA
NUMBER PE-2005001034
PROFESSIONAL ENGINEER
Jamie F. Rana
01/27/2024 12:25:25 PM
JAMIE F. RANA - CIVIL
MO-PE-2005001034

DATE PREPARED	
1/24/2024	
ROUTE	STATE
N	MO
DISTRICT	SHEET NO.
SL	66
COUNTY	
ST. LOUIS	
JOB NO.	
J6S3599	
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)

TRAFFIC CONTROL PLAN
DETOUR OVERVIEW DURING
WB I-70 TO
NB ROUTE N CLOSURE

TRAFFIC CONTROL RT. TURN CLOSURE FROM WB I-70 TO NB ROUTE N

1. WHEN RT. TURN FROM WB I-70 OFF-RAMP TO NB ROUTE N IS CLOSED, DETOUR TRAFFIC TO EXIT 241B - LUCAS-HUNT (ROUTE U). SEE ADDITIONAL SHEETS FOR DETOUR ALONG SB ROUTE U - TO WB ROUTE 115 THEN TO NB ROUTE N.

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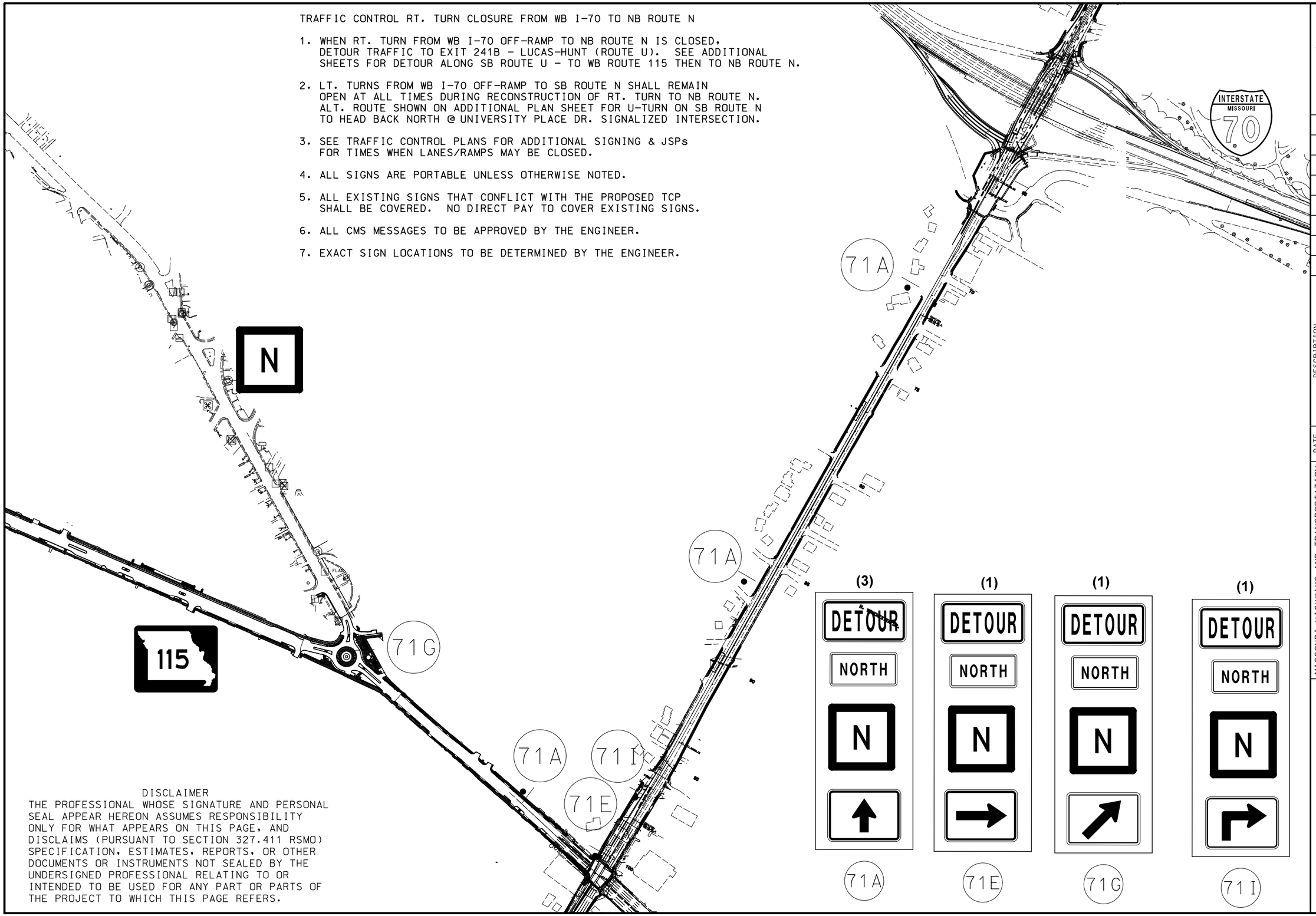

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STATE OF MISSOURI
JAMIE F. RANA
NUMBER PE-2005001034
PROFESSIONAL ENGINEER
Jami F. Rana
01/27/2024 12:26:41 PM
JAMIE F. RANA - CIVIL
MO-PE-2005001034

DATE PREPARED
1/24/2024

ROUTE	STATE
N	MO
DISTRICT	SHEET NO.
SL	67

COUNTY
ST. LOUIS

JOB NO.
J6S3599

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)

TRAFFIC CONTROL PLAN DETOUR OVERVIEW DURING WB I-70 TO NB ROUTE N CLOSURE

DISCLAIMER

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NOTE: CONTRACTOR SHALL INSTALL R10-30b SIGN ON EXIST. SIGNAL MAST ARM CONTROLLING SB RTE. N AT UNIVERSITY PLACE DR.

U-TURN ON GREEN ARROW

R10-30b

NOTE: NEW PERMANENT STOP BAR LOCATION

RTE. N SURVEY ℄

UNIVERSITY PLACE DR.

NOTE: CONTRACTOR TO PROVIDE TEMP. COMBINATION STR/LT. TURN PAVEMENT MARKING ARROW (THERMOPLASTIC) DURING THIS PHASE OF CONSTRUCTION.

CONSTRUCTION STAGING NOTES:

1. SHEET SHOWS ALT. ROUTE WHEN WB I-70 OFF-RAMP TO NB RTE. N IS RECONSTRUCTED.

2. CONTRACTOR SHALL MODIFY SIGNAL PHASING AT UNIVERSITY PLACE DRIVE TO ALLOW FOR LT. (U-TURN) TO NB RTE. N FROM SB RTE. N DURING THIS CONSTRUCTION PHASE.

3. CONTRACTOR SHALL FIRST RESTRIPE PERMANENT RT. TURN LANE TO UNIVERSITY PLACE DR. PRIOR TO CLOSING WB I-70 OFF-RAMP TO NB RTE. N.

4. SEE DETOUR SHEET FOR SIGNED DETOUR DURING I-70 OFF-RAMP RECONSTRUCTION WORK.

SCALE

0 30 60 90

STATE OF MISSOURI
JAMIE F. RANA
NUMBER PE-2005001034
PROFESSIONAL ENGINEER

Jamie F. Rana
01/27/2024 12:27:51 PM
JAMIE F. RANA - CIVIL
MO-PE-2005001034

DATE PREPARED
1/24/2024

ROUTE	STATE
N	MO
DISTRICT	SHEET NO.
SL	68

COUNTY
ST. LOUIS

JOB NO.
J6S3599

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)

TRAFFIC CONTROL PLANS DETOUR FOR WB I-70 TO NB ROUTE N

TRAFFIC CONTROL FOR ST. ANN'S LANE CLOSURE @ RTE. N

1. SEE TRAFFIC CONTROL PLANS FOR ADDITIONAL SIGNING & JSPs FOR TIMES WHEN ST. ANN'S LANE AT ROUTE N MAY BE CLOSED.
2. ALL SIGNS ARE PORTABLE UNLESS OTHERWISE NOTED.
3. ALL EXISTING SIGNS THAT CONFLICT WITH THE PROPOSED TCP SHALL BE COVERED. NO DIRECT PAY TO COVER EXISTING SIGNS.
4. ALL CMS MESSAGES TO BE APPROVED BY THE ENGINEER.
5. EXACT SIGN LOCATIONS TO BE DETERMINED BY THE ENGINEER.
6. STAGING FOR ST. ANN'S LANE CLOSURE SHOWN WHEN SB LANES OF ROUTE N ARE BEING WORKED UPON – THE USE OF TEMP. BARRIER IN LIEU OF CHANNELIZERS MAY BE NEEDED DEPENDING ON WHEN ST. ANN'S LANE CLOSURE TAKES PLACE.

DISCLAIMER

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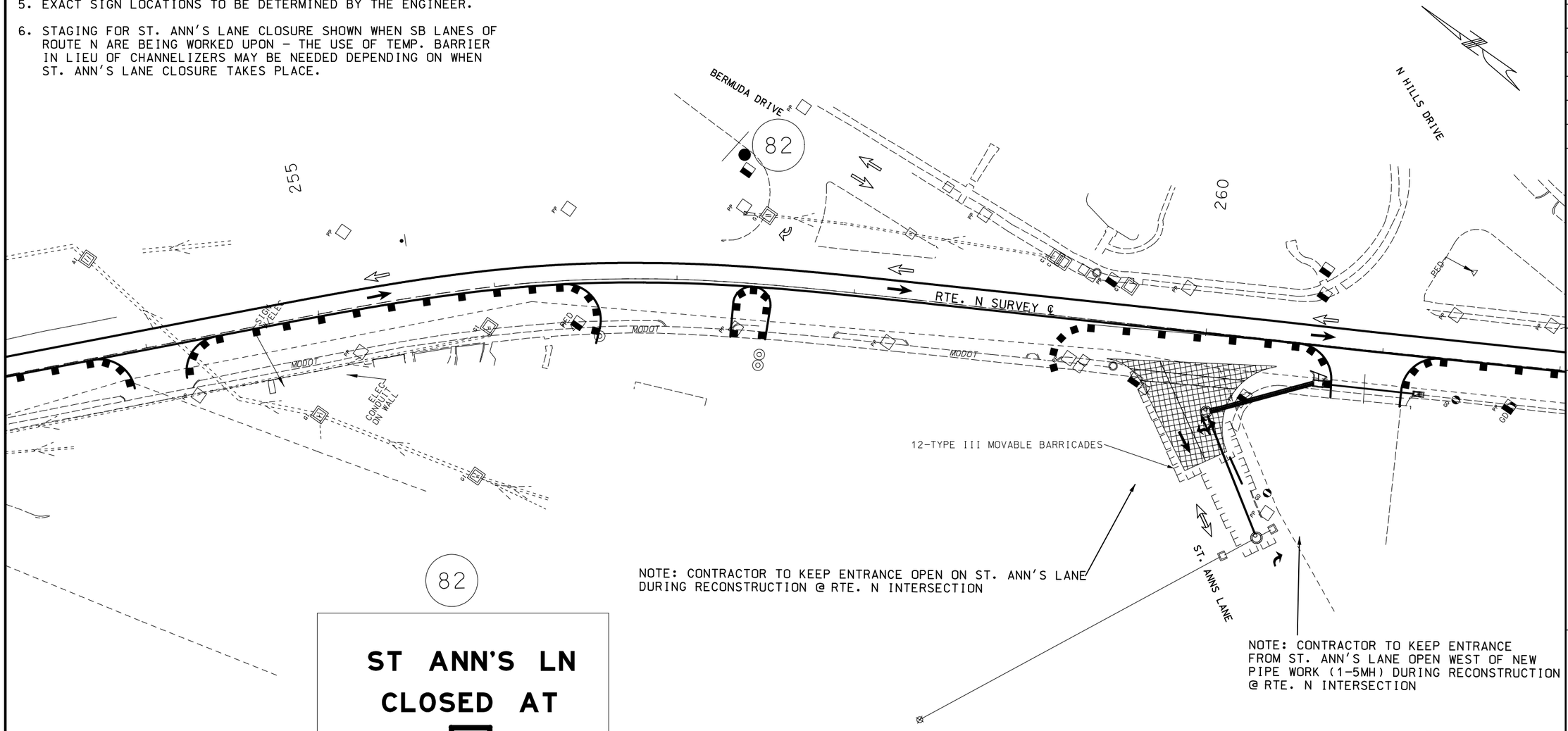


NOTE: CONTRACTOR TO KEEP ENTRANCE OPEN ON ST. ANN'S LANE DURING RECONSTRUCTION @ RTE. N INTERSECTION

NOTE: CONTRACTOR TO KEEP ENTRANCE FROM ST. ANN'S LANE OPEN WEST OF NEW PIPE WORK (1–5MH) DURING RECONSTRUCTION @ RTE. N INTERSECTION

PLACE SIGN #82 IN 4 LOCATIONS:
1 ON BERMUDA DRIVE APPROACHING ROUTE N INTERSECTION &
1 ON ST. ANN'S LANE AT AUGUSTA AVE. INTERSECTION
1 ON NB ROUTE N JUST NORTH OF RTE. 115 ROUND-ABOUT
1 ON SB ROUTE N JUST SOUTH OF ARNOLD B. GROBMAN DRIVE

82

PLACE SIGN #82 ±600' SOUTH OF ROUTE N @ AUGUSTA AVE.

82

ST ANN'S LN
CLOSED AT
N
USE ALT ROUTE

GROUND-MOUNT SIGN

SCALE
0 30 60 90

VARIABLE THICKNESS RESURFACING

STATE OF MISSOURI
JAMIE F. RANA
NUMBER PE-2005001034
PROFESSIONAL ENGINEER
Jamie F. Rana
01/27/2024 12:28:24 PM
JAMIE F. RANA - CIVIL
MO-PE-2005001034

DATE PREPARED
1/24/2024

ROUTE	STATE
N	MO
DISTRICT	SHEET NO.
SL	69

COUNTY
ST. LOUIS

JOB NO.
J6S3599

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION	DATE

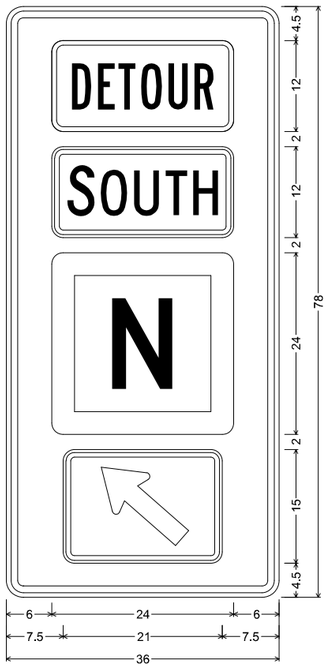
IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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

TRAFFIC CONTROL PLANS
ST. ANN'S LANE CLOSURE
AT RTE. N

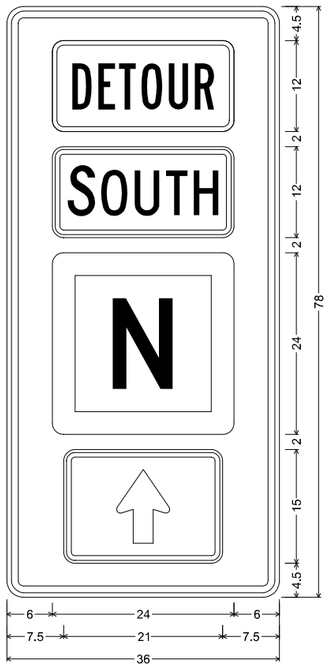
SIGN NO.	70F
STATION	
ROADWAY	



MO4-11 SHF-FLAT SHEET FLUORESCENT;
2.250" Radius, 0.875" Border, 0.625" Indent, Black on, Orange;
Table of letter and object lefts

D	6.000
T	6.000
N	6.000
70F	7.500

SIGN NO.	70A
STATION	
ROADWAY	



MO4-11 SHF-FLAT SHEET FLUORESCENT;
2.250" Radius, 0.875" Border, 0.625" Indent, Black on, Orange;
Table of letter and object lefts

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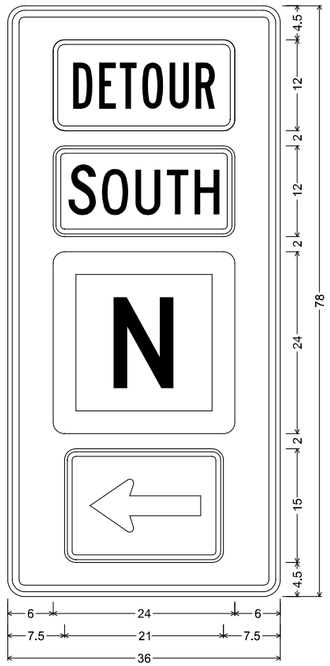
T	6.000
N	6.000
70A	7.500

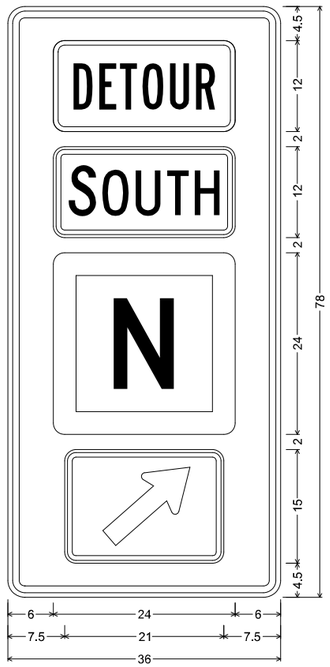
SIGN NO.	70D
STATION	
ROADWAY	



MO4-11 SHF-FLAT SHEET FLUORESCENT;
2.250" Radius, 0.875" Border, 0.625" Indent, Black on, Orange;
Table of letter and object lefts

D	6.000
T	6.000
N	6.000
70D	7.500

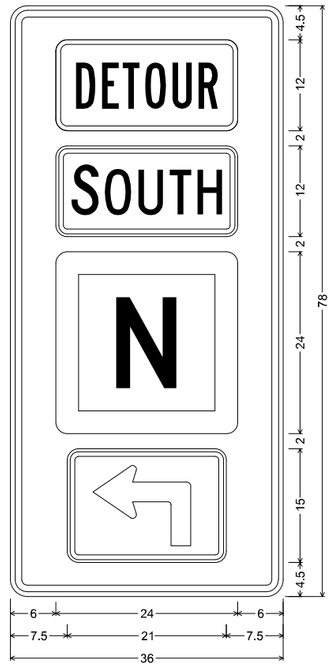
SIGN NO.	70G
STATION	
ROADWAY	



MO4-11 SHF-FLAT SHEET FLUORESCENT;
2.250" Radius, 0.875" Border, 0.625" Indent, Black on, Orange;
Table of letter and object lefts

D	6.000
T	6.000
N	6.000
70G	7.500

SIGN NO.	70H
STATION	
ROADWAY	



MO4-11 SHF-FLAT SHEET FLUORESCENT;
2.250" Radius, 0.875" Border, 0.625" Indent, Black on, Orange;
Table of letter and object lefts

D	6.000
T	6.000
N	6.000
70H	7.500

DISCLAIMER
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STATE OF MISSOURI
JAMIE F. RANA
NUMBER PE-2005001034
PROFESSIONAL ENGINEER
Jamie F. Rana
01/27/2024 12:28:52 PM
JAMIE F. RANA - CIVIL
MO-PE-2005001034

DATE PREPARED
1/24/2024

ROUTE	STATE
N	MO
DISTRICT	SHEET NO.
SL	70

COUNTY
ST. LOUIS

JOB NO.
J6S3599

CONTRACT ID.

PROJECT NO.

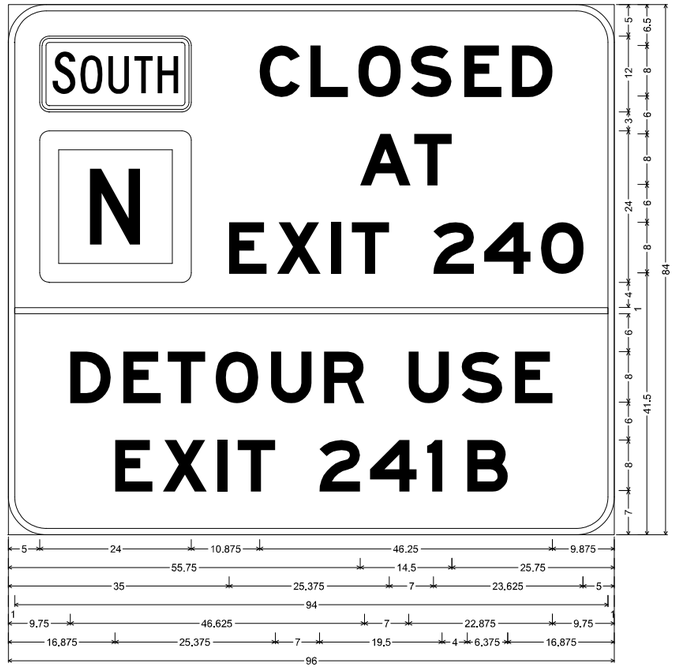
BRIDGE NO.

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)

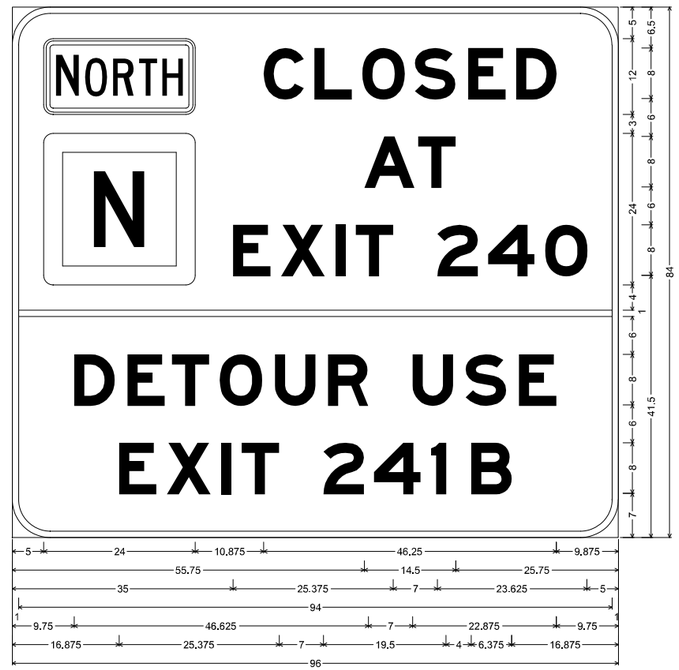
DETOUR SIGN DETAILS



SPECIAL SHF-FLAT SHEET FLUORESCENT;
6.000" Radius, 1.000" Border, Black on, Orange;
"CLOSED", E Mod; "AT", E Mod; "EXIT 240", E Mod; "DETOUR USE", E Mod; "EXIT 241 B", E Mod;
Table of letter and object lefts

5.000	C 39.875	L 47.875	O 55.500	S 63.750	E 72.250	D 79.750
5.000	A 55.750	T 64.250				
E 35.000	X 42.625	I 51.125	T 54.375	2 67.375	4 75.375	O 84.375
1.000						
D 9.750	E 18.250	T 25.250	O 32.875	U 41.625	R 50.000	U 63.375	S 71.875	E 80.250
E 16.875	X 24.500	I 33.125	T 36.375	2 49.250	4 57.250	I 66.375	B 72.750

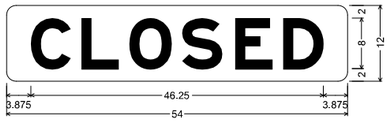
SIGN NO.	80
STATION	
ROADWAY	



SPECIAL SHF-FLAT SHEET FLUORESCENT;
6.000" Radius, 1.000" Border, Black on, Orange;
"CLOSED", E Mod; "AT", E Mod; "EXIT 240", E Mod; "DETOUR USE", E Mod; "EXIT 241 B", E Mod;
Table of letter and object lefts

5.000	C 39.875	L 47.875	O 55.500	S 63.750	E 72.250	D 79.750
5.000	A 55.750	T 64.250				
E 35.000	X 42.625	I 51.125	T 54.375	2 67.375	4 75.375	O 84.375
1.000						
D 9.750	E 18.250	T 25.250	O 32.875	U 41.625	R 50.000	U 63.375	S 71.875	E 80.250
E 16.875	X 24.500	I 33.125	T 36.375	2 49.250	4 57.250	I 66.375	B 72.750

SIGN NO.	81
STATION	
ROADWAY	



SPECIAL SHF-FLAT SHEET FLUORESCENT;
1.500" Radius, No border, Orange;
"CLOSED" Black, E Mod;
Table of letter and object lefts

C 3.875	L 11.875	O 19.500	S 27.750	E 36.250	D 43.750

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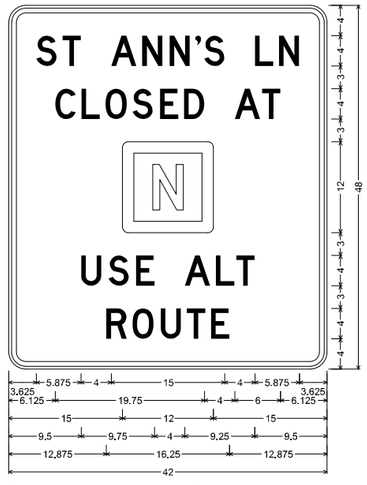
SIGN NO.	82
STATION	
ROADWAY	



SPECIAL SHF-FLAT SHEET FLUORESCENT;
2.250" Radius, 0.625" Border, 0.375" Indent, Black on, Orange;
"ST ANN'S LN", D; "CLOSED AT", D; "USE ALT", D;
"ROUTE", D;
Table of letter and object lefts

S 3.625	T 7.125	A 13.500	N 17.625	N 21.250	. 24.625	S 25.750		
	L 32.500	N 35.625						
C 6.125	L 9.625	O 12.750	S 16.375	E 20.000	D 23.125	A 29.875	T 33.375	
15.000								
U 9.500	S 13.125	E 16.750	A 23.250	L 27.375	T 30.000			
R 12.875	O 16.250	U 20.125	T 23.500	E 26.750				

STATE OF MISSOURI
JAMIE F. RANA
NUMBER PE-2005001034
PROFESSIONAL ENGINEER
Jamie F. Rana
01/27/2024 12:29:17 PM
JAMIE F. RANA - CIVIL
MO-PE-2005001034

DATE PREPARED
1/24/2024

ROUTE	STATE
N	MO
DISTRICT	SHEET NO.
SL	71

COUNTY
ST. LOUIS

JOB NO.
J6S3599

CONTRACT ID.

PROJECT NO.

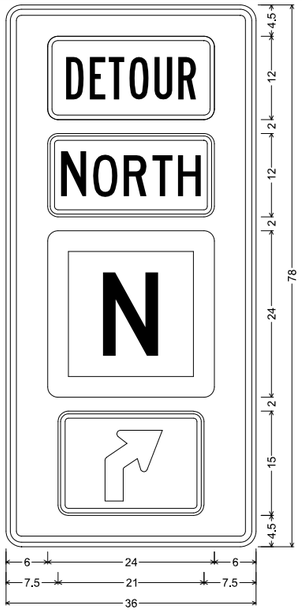
BRIDGE NO.

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

DESCRIPTION	DATE
REVISION	
ADDED DETOUR SIGN DETAILS	02/16/2024

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

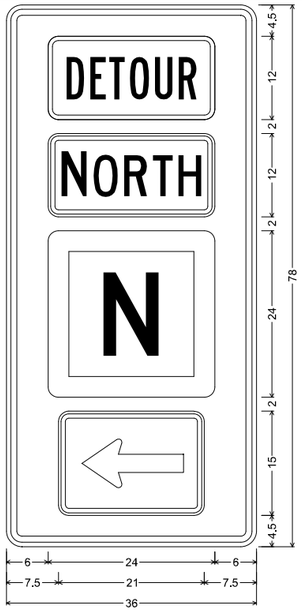
DETOUR SIGN DETAILS



MO4-11 SHF-FLAT SHEET FLUORESCENT;
2.250" Radius, 0.875" Border, 0.625" Indent, Black on, Orange;
Table of letter and object lefts

SIGN NO.	71C
STATION	
ROADWAY	

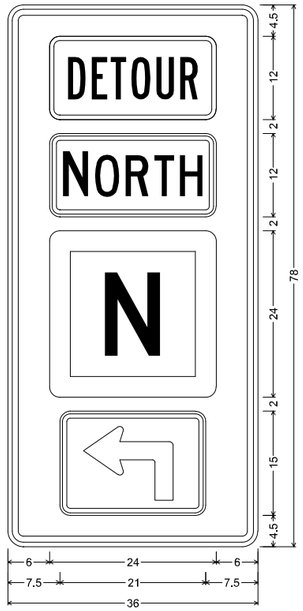
6.000	
6.000	
6.000	
6.000	
7.500	



MO4-11 SHF-FLAT SHEET FLUORESCENT;
2.250" Radius, 0.875" Border, 0.625" Indent, Black on, Orange;
Table of letter and object lefts

SIGN NO.	71D
STATION	
ROADWAY	

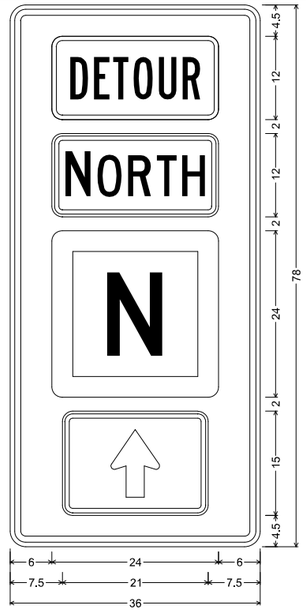
6.000	
6.000	
6.000	
6.000	
7.500	



MO4-11 SHF-FLAT SHEET FLUORESCENT;
2.250" Radius, 0.875" Border, 0.625" Indent, Black on, Orange;
Table of letter and object lefts

SIGN NO.	71H
STATION	
ROADWAY	

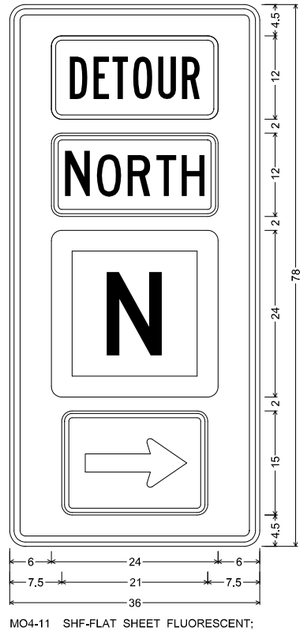
6.000	
6.000	
6.000	
6.000	
7.500	



MO4-11 SHF-FLAT SHEET FLUORESCENT;
2.250" Radius, 0.875" Border, 0.625" Indent, Black on, Orange;
Table of letter and object lefts

SIGN NO.	71A
STATION	
ROADWAY	

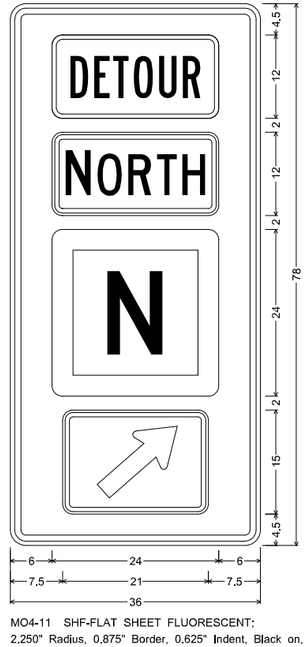
6.000	
6.000	
6.000	
6.000	
7.500	



MO4-11 SHF-FLAT SHEET FLUORESCENT;
2.250" Radius, 0.875" Border, 0.625" Indent, Black on, Orange;
Table of letter and object lefts

SIGN NO.	71E
STATION	
ROADWAY	

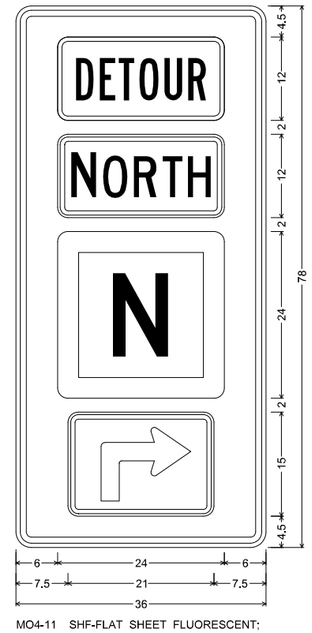
6.000	
6.000	
6.000	
6.000	
7.500	



MO4-11 SHF-FLAT SHEET FLUORESCENT;
2.250" Radius, 0.875" Border, 0.625" Indent, Black on, Orange;
Table of letter and object lefts

SIGN NO.	71G
STATION	
ROADWAY	

6.000	
6.000	
6.000	
7.500	



MO4-11 SHF-FLAT SHEET FLUORESCENT;
2.250" Radius, 0.875" Border, 0.625" Indent, Black on, Orange;
Table of letter and object lefts

SIGN NO.	71I
STATION	
ROADWAY	

6.000	
6.000	
6.000	
7.500	

DISCLAIMER

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STATE OF MISSOURI
JAMIE F. RANA
NUMBER PE-2005001034
PROFESSIONAL ENGINEER
Jamie F. Rana
01/27/2024 12:29:42 PM
JAMIE F. RANA - CIVIL
MO-PE-2005001034

DATE PREPARED
1/24/2024

ROUTE	STATE
N	MO
DISTRICT	SHEET NO.
SL	72

COUNTY
ST. LOUIS

JOB NO.
J6S3599

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

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

DATE	DESCRIPTION

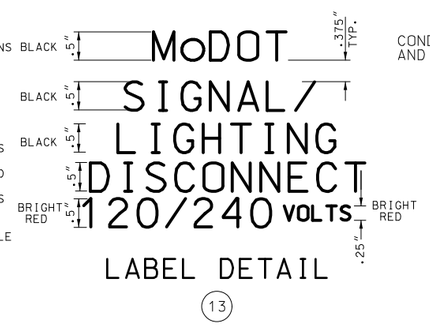
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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

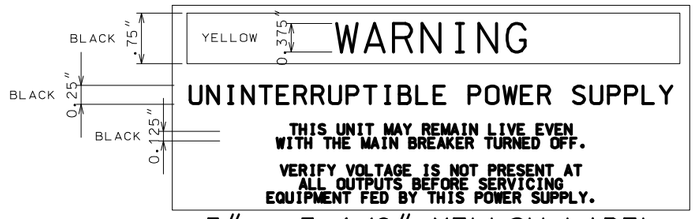
DETOUR SIGN DETAILS

GENERAL NOTES:

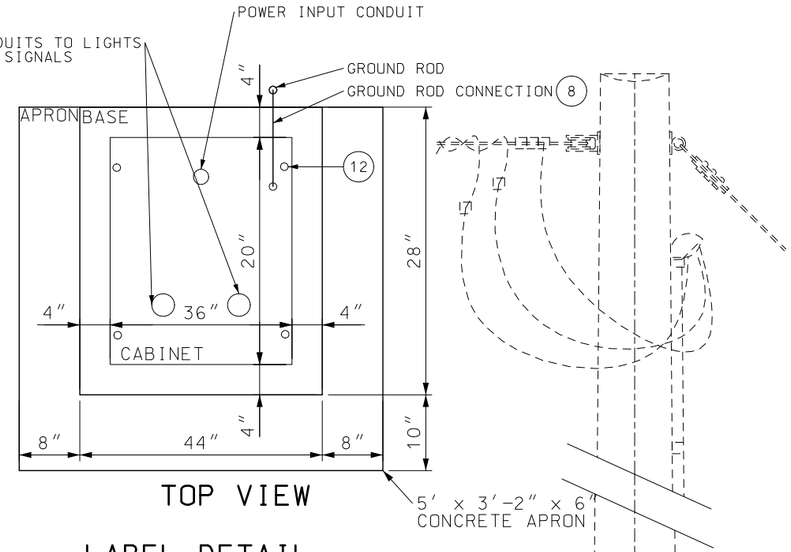
1. ALTERNATE CABINET DIMENSIONS WILL BE ALLOWED AS APPROVED BY THE ENGINEER. INTERIOR CABINET VOLUME SHALL BE EQUAL TO OR GREATER THAN THAT SHOWN ON PLANS AND PROPER CLEARANCES SHALL BE PROVIDED FOR ALL EQUIPMENT. CONCRETE BASE DIMENSIONS SHALL BE MODIFIED TO FIT THE CABINET SUPPLIER.
2. PLACEMENT OF 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)

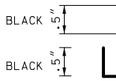


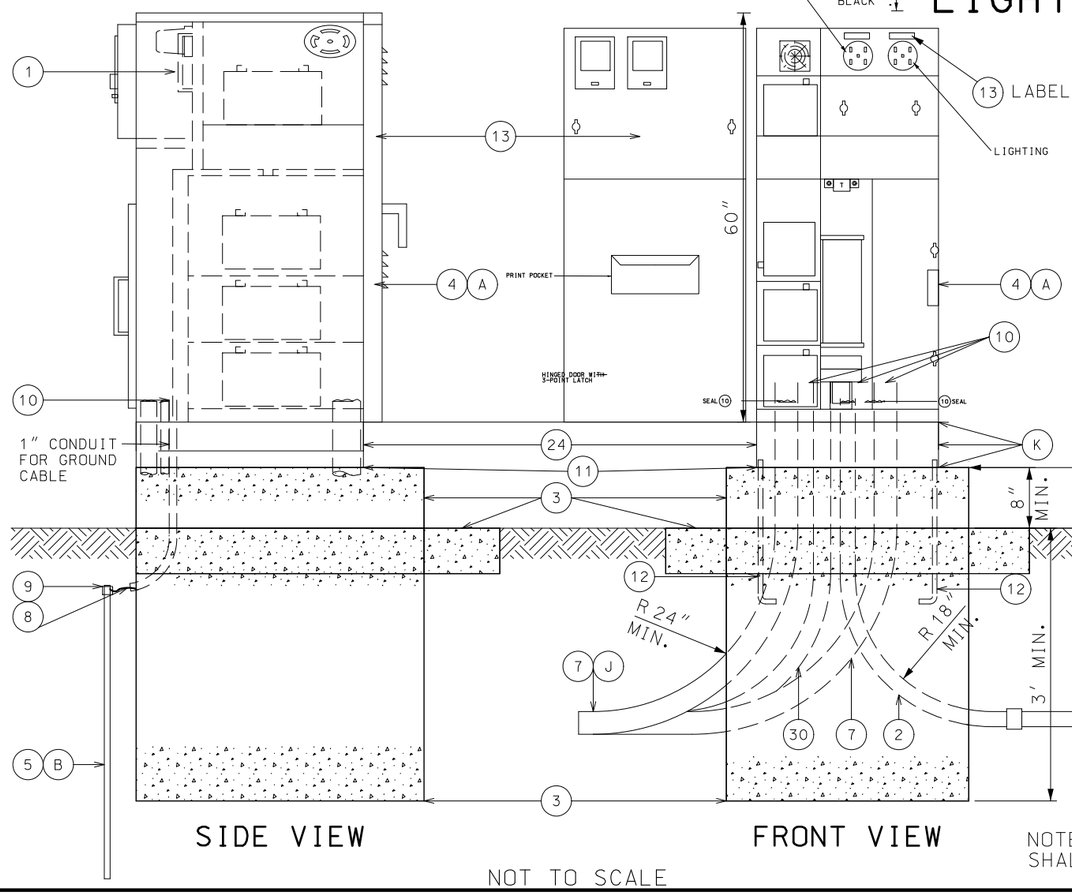
5" x 3 1/2" YELLOW LABEL
(UNDER SIGNAL METER ON LOWER DOOR)



TOP VIEW

LABEL DETAIL





SIDE VIEW

FRONT VIEW

NOT TO SCALE

NOTE: CONDUITS RUNNING INTO CONC. BASE SHALL BE STUBBED 1" ABOVE TOP OF BASE.

DISCLAIMER

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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.

STATE OF MISSOURI
JAMIE F. RANA
NUMBER PE-2005001034
PROFESSIONAL ENGINEER
Jamie F. Rana
01/27/2024 12:30:12 PM
JAMIE F. RANA - CIVIL
MO-PE-2005001034

DATE PREPARED
1/24/2024

ROUTE	STATE
N	MO
DISTRICT	SHEET NO.
SL	73

COUNTY
ST. LOUIS

JOB NO.
J6S3599

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

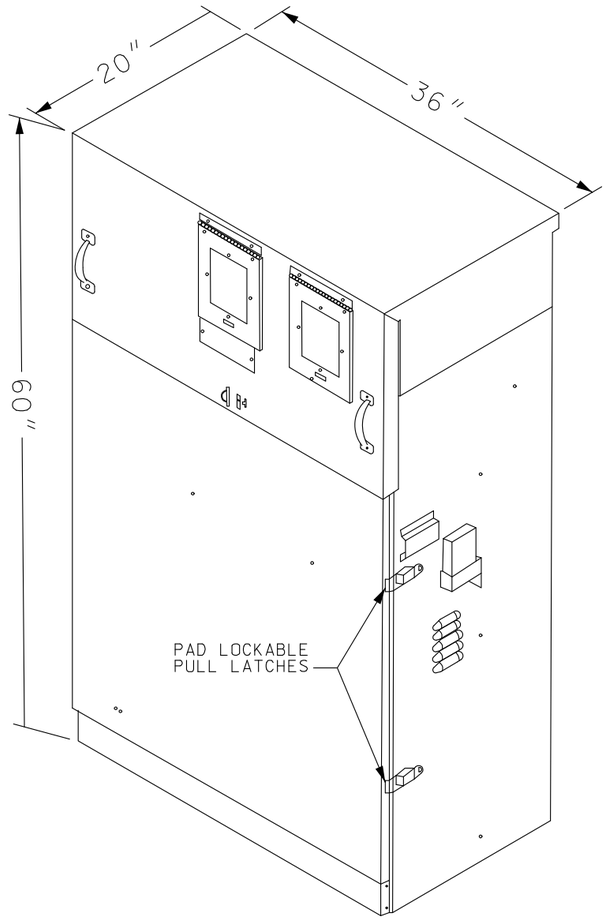
IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

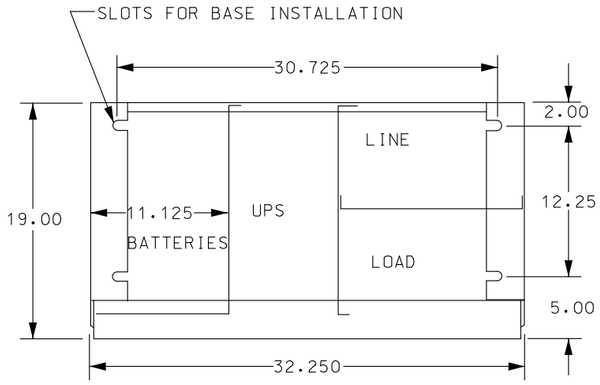
REV.	DESCRIPTION	DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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

SPECIAL SHEETS
PAD MOUNTED 120V/240V POWER SUPPLY & LIGHTING CONTROLLER W/ UNINTERRUPTIBLE POWER SUPPLY





PEDESTAL PLAN VIEW
MOUNTING SLOT DETAIL

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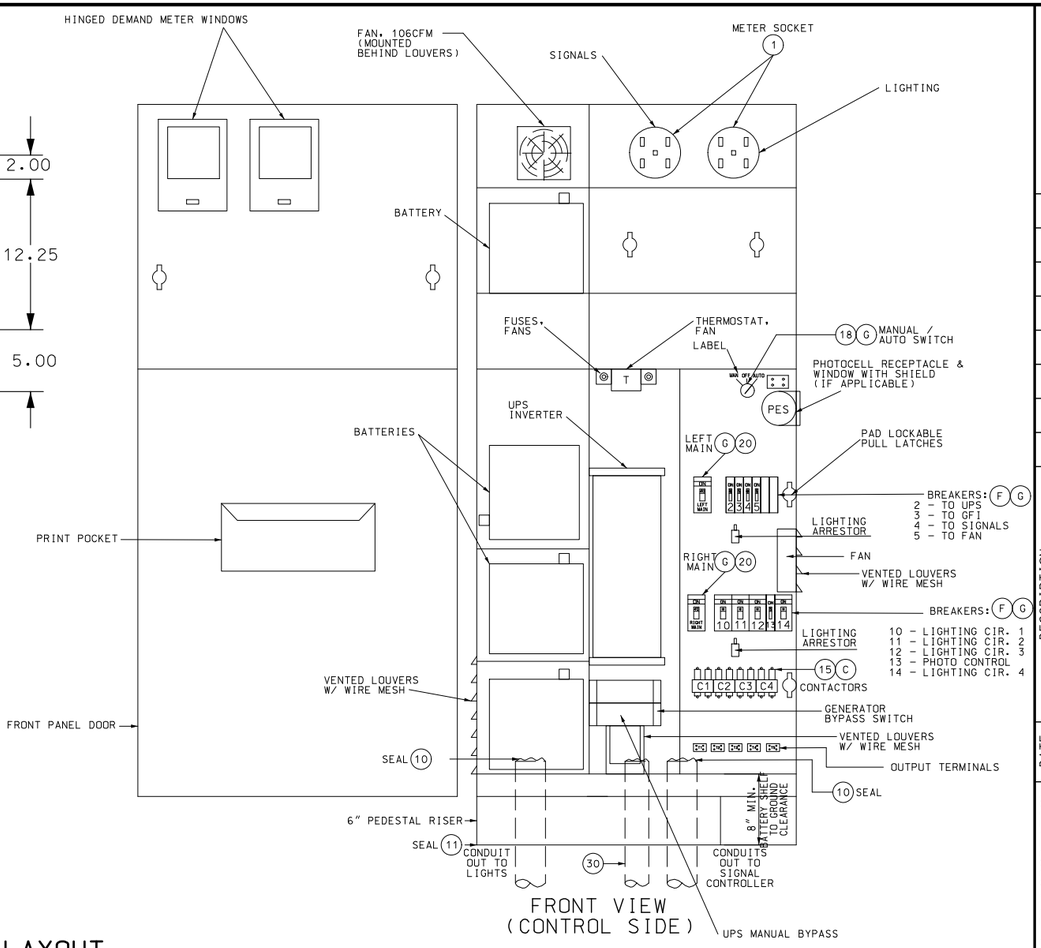
NOTE: WHERE SPACE PROVIDES, UPS SHALL HAVE ADDITIONAL LABELS DENOTING 'LIGHTING' CONTROLS



FRONT VIEW
(CONTROL SIDE)

EQUIPMENT LAYOUT
NOT TO SCALE

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		
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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)
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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.

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35	5550-6500	-
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(K) SEE CABINET MANUFACTURER FOR MOUNTING BASE DIMENSIONS AND ANCHOR BOLT LOCATIONS.

STATE OF MISSOURI
JAMIE F. RANA
NUMBER PE-2005001034
PROFESSIONAL ENGINEER
Jami F. Rana
01/27/2024 12:30:42 PM
JAMIE F. RANA - CIVIL
MO-PE-2005001034

DATE PREPARED
1/24/2024

ROUTE	STATE
N	MO
DISTRICT	SHEET NO.
SL	74

COUNTY
ST. LOUIS

JOB NO.
J6S3599

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)

SPECIAL SHEETS
PAD MOUNTED 120V/240V POWER SUPPLY & LIGHTING CONTROLLER W/ UNINTERRUPTIBLE POWER SUPPLY

REV.

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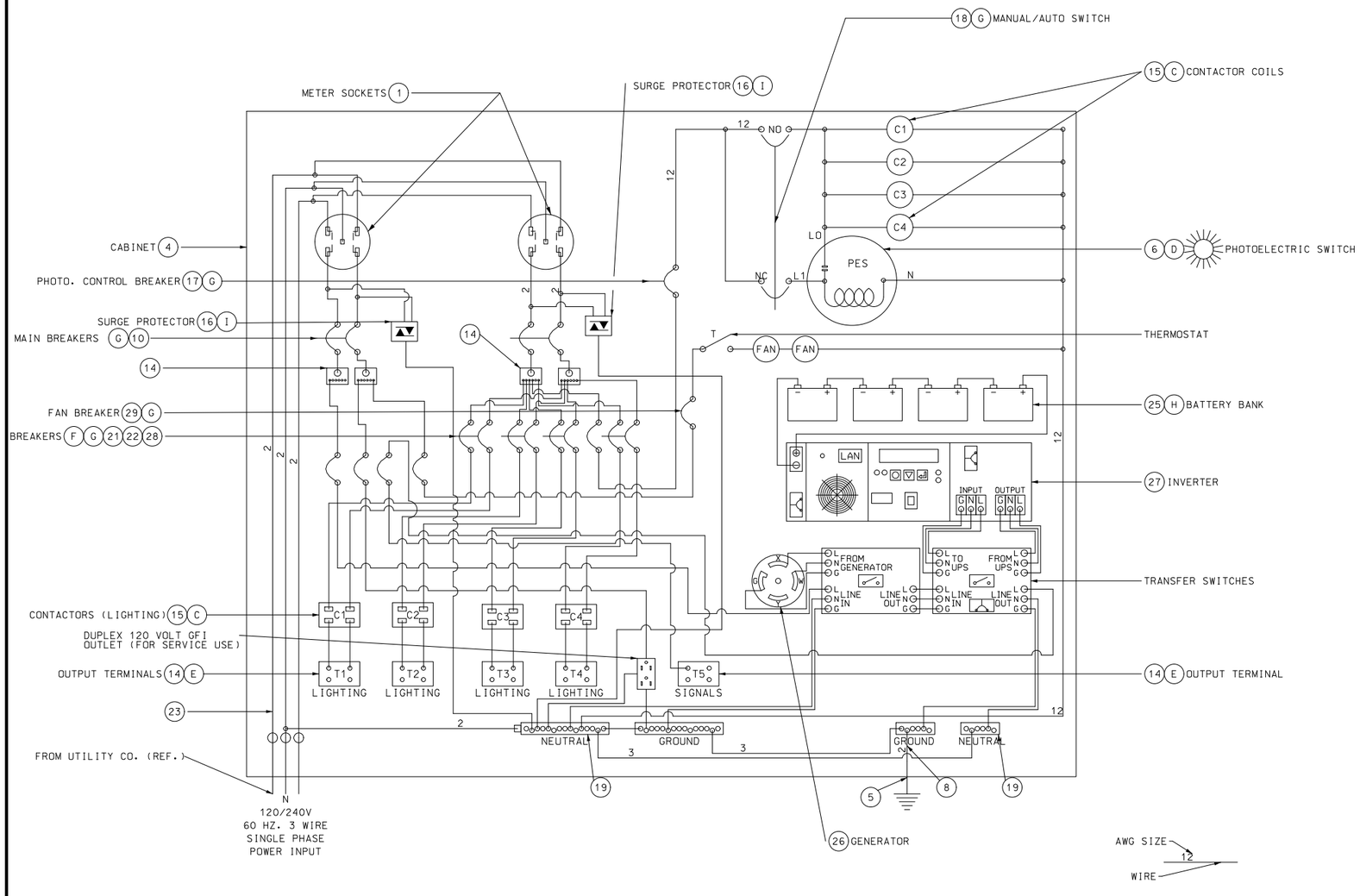

WIRING DIAGRAM

LIST OF MATERIALS	
ITEM	DESCRIPTION
1	METER SOCKET, 200 AMP, WITH LEVER TEST BYPASS
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✳	SEE PLANS FOR SIZE

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(K) SEE CABINET MANUFACTURER FOR MOUNTING BASE DIMENSIONS AND ANCHOR BOLT LOCATIONS.

STATE OF MISSOURI
JAMIE F. RANA
NUMBER PE-2005001034
PROFESSIONAL ENGINEER
Jamie F. Rana
01/27/2024 12:31:06 PM
JAMIE F. RANA - CIVIL
MO-PE-2005001034

DATE PREPARED
1/24/2024

ROUTE	STATE
N	MO
DISTRICT	SHEET NO.
SL	75

COUNTY
ST. LOUIS

JOB NO.
J6S3599

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

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

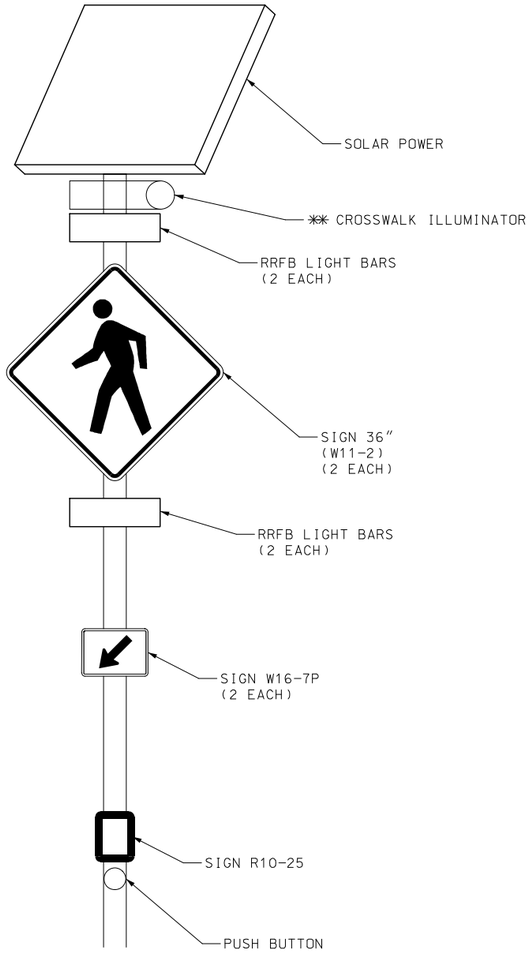
DATE	DESCRIPTION	REV.

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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

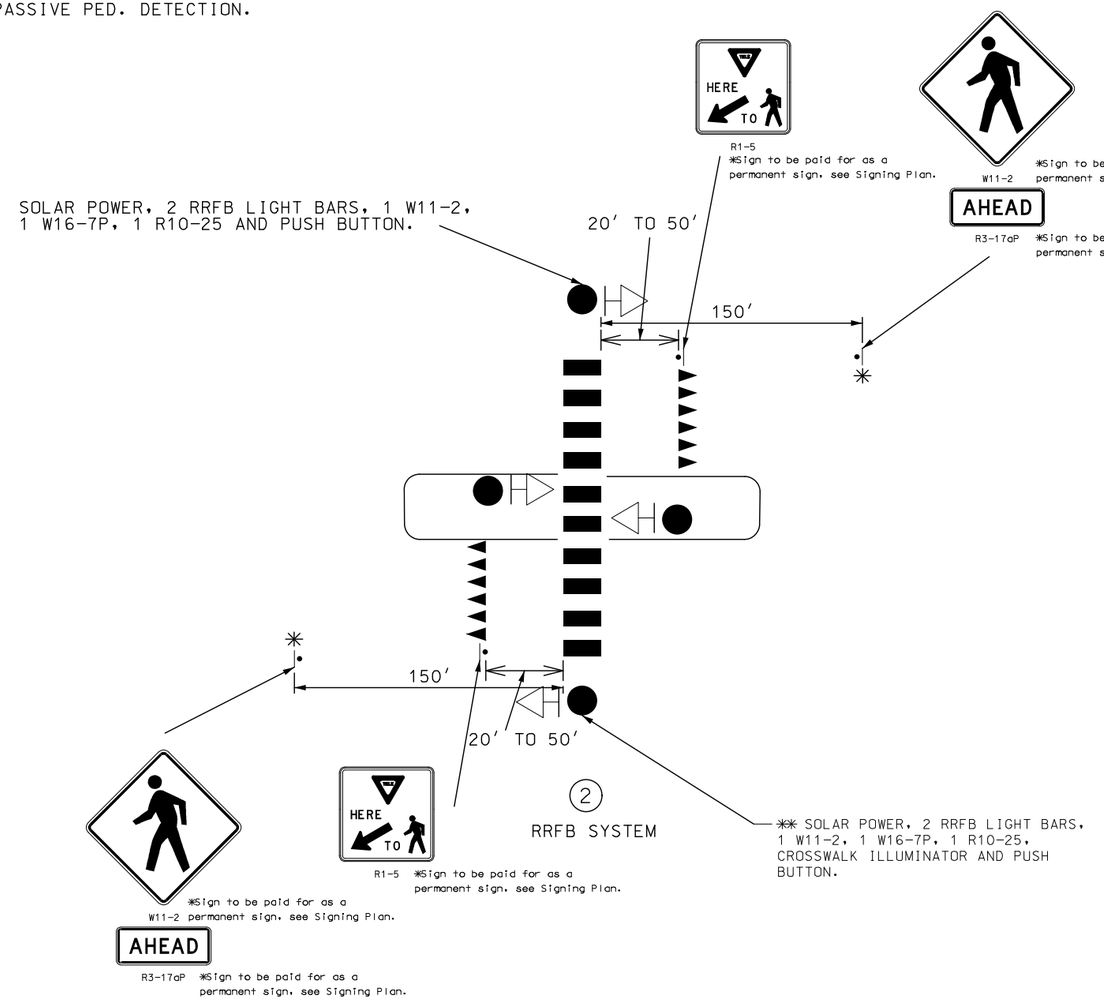
SPECIAL SHEETS
PAD MOUNTED 120V/240V POWER
SUPPLY & LIGHTING CONTROLLER
W/ UNINTERRUPTIBLE POWER SUPPLY

NOTE: PASSIVE PED. DETECTION TO BE INCLUDED ON RRFB SIGN PER MANUFACTURER'S SPECIFICATIONS.
LENGTH OF POLE FOR RRFB MAY NEED TO BE INCREASED FOR PASSIVE PED. DETECTION.



1

USED WITH A TYPE C POST BASE (STANDARD PLANS 902.30P)



2

RRFB SYSTEM

✳✳ SOLAR POWER, 2 RRFB LIGHT BARS, 1 W11-2, 1 W16-7P, 1 R10-25, CROSSWALK ILLUMINATOR AND PUSH BUTTON.

✳ ACTUAL ADVANCED SIGN LOCATION WILL BE BASED ON FIELD CONDITIONS AND DETERMINED BY THE ENGINEER.

✳✳ ILLUMINATOR WILL BE INSTALLED ON ALL RRFB POSTS AND INCLUDED IN COST OF RRFB INSTALLATION.

6 PED CROSSWALK

12″ WIDE YIELD LINE

NOT TO SCALE

RECTANGULAR RAPID FLASHING BEACON WITH CROSSWALK ILLUMINATOR

STATE OF MISSOURI
JAMIE F. RANA
NUMBER PE-2005001034
PROFESSIONAL ENGINEER
Jamie F. Rana
01/27/2024 12:31:59 PM
JAMIE F. RANA - CIVIL
MO-PE-2005001034

DATE PREPARED
1/24/2024

ROUTE	STATE
N	MO
DISTRICT	SHEET NO.
SL	76

COUNTY
ST. LOUIS

JOB NO.
J6S3599

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

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

DESCRIPTION	DATE

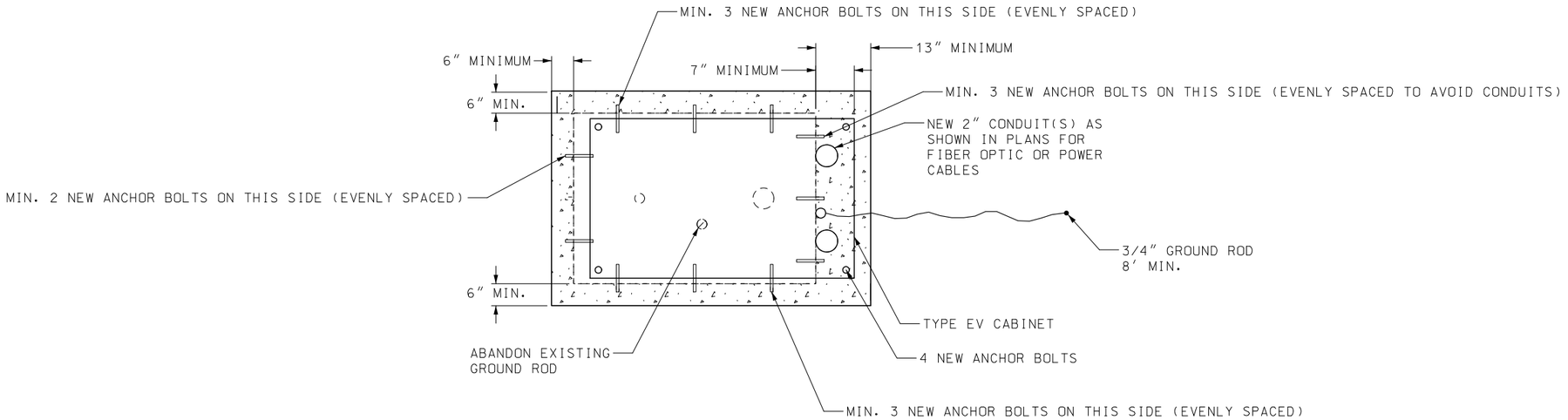
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

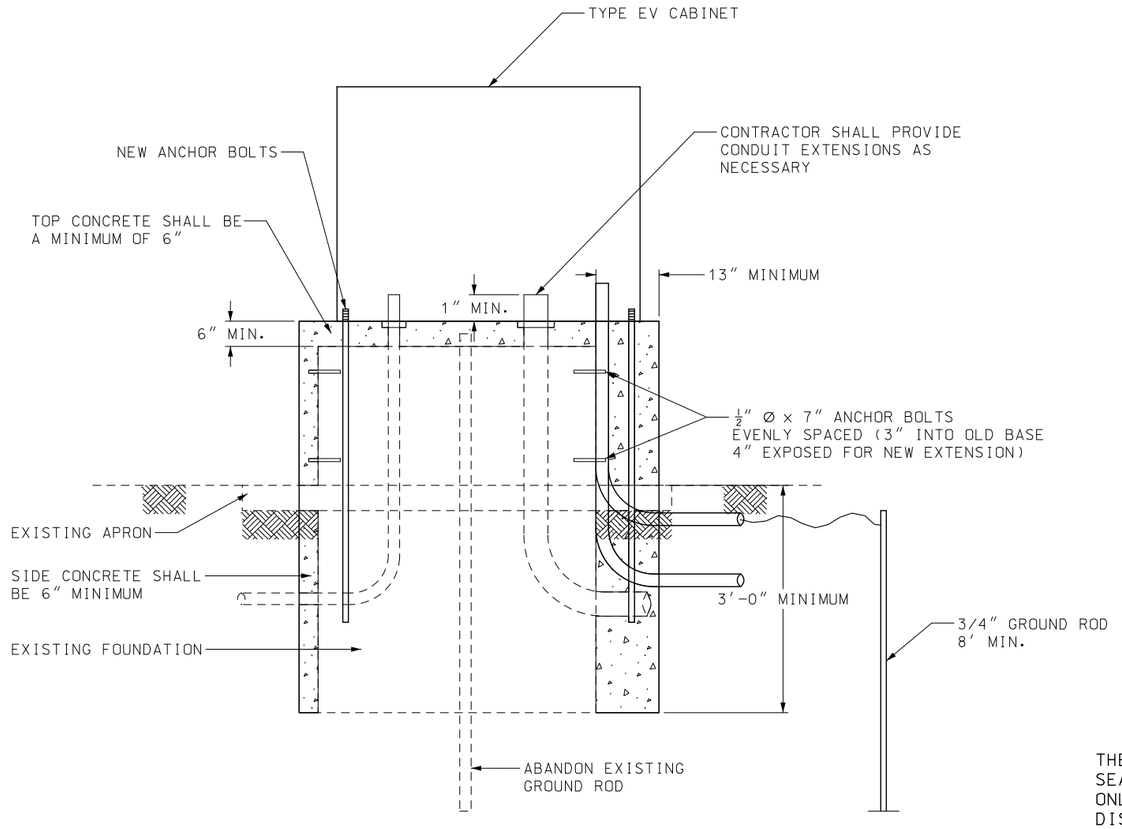
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

SPECIAL SHEET

RECT. RAPID FLASH BEACON

REV.





CABINET BASE WRAP

NOT TO SCALE

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STATE OF MISSOURI
JAMIE F. RANA
NUMBER PE-2005001034
PROFESSIONAL ENGINEER

Jamie F. Rana
01/27/2024 12:32:56 PM
JAMIE F. RANA - CIVIL
MO-PE-2005001034

DATE PREPARED
1/24/2024

ROUTE	STATE
N	MO
DISTRICT	SHEET NO.
SL	77

COUNTY
ST. LOUIS

JOB NO.
J6S3599

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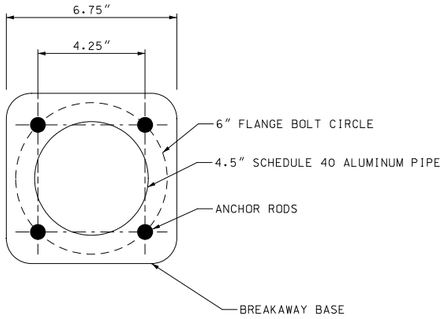
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

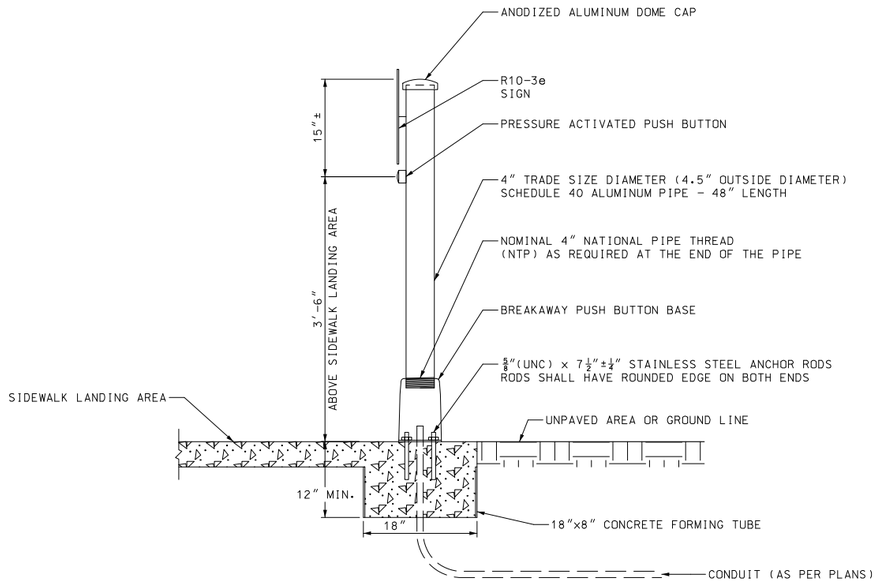
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

SPECIAL SHEET
CABINET BASE WRAP

REV.



ANCHOR ROD PLACEMENT



PUSH BUTTON STANCHION

NOTES:

- THE PUSH BUTTON STANCHION FOUNDATION IS CONSTRUCTED AS PART OF THE SIDEWALK. INCREASE THE SIDEWALK THICKNESS TO 12" (MIN.) TO PROVIDE FOR THE PUSH BUTTON STANCHION FOUNDATION.
- INSTALLATION OF THE PUSH BUTTON STANCHION SHALL BE PER MANUFACTURER'S RECOMMENDATIONS.
- CABLES SHALL HAVE A SLIP-FIT CONNECTION IN THE PEDESTAL THAT WILL DETACH IN THE EVENT THE POLE IS STRUCK.

NOT TO SCALE

DISCLAIMER

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STATE OF MISSOURI
JAMIE F. RANA
NUMBER PE-2005001034
PROFESSIONAL ENGINEER
Jamie F. Rana
01/27/2024 12:33:36 PM
JAMIE F. RANA - CIVIL
MO-PE-2005001034

DATE PREPARED
1/24/2024

ROUTE	STATE
N	MO
DISTRICT	SHEET NO.
SL	78

COUNTY
ST. LOUIS

JOB NO.
J6S3599

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

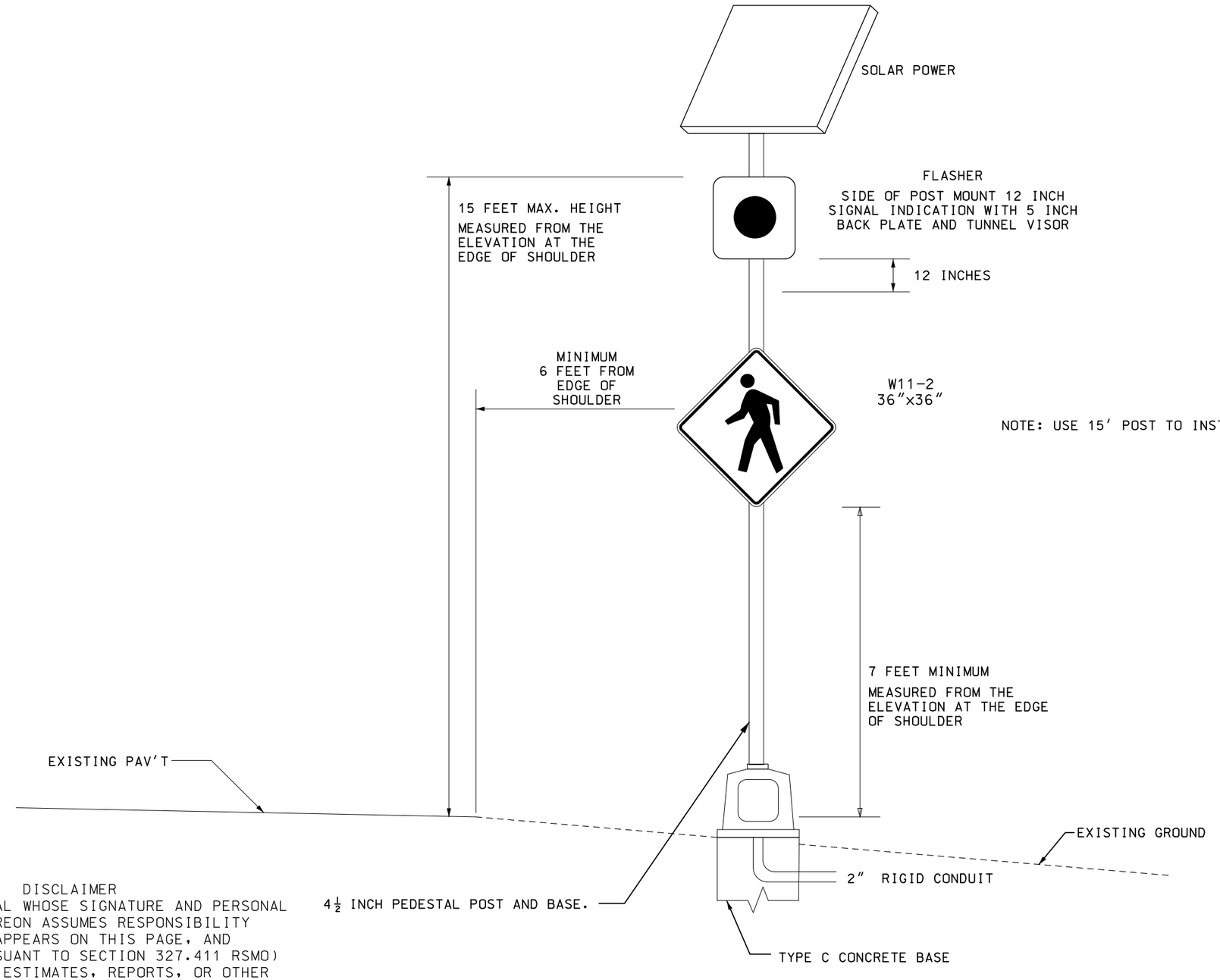
DESCRIPTION	DATE

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)

SPECIAL SHEET
ADA PEDESTRIAN
PUSH BUTTON STANCHION



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TYPICAL ADVANCED FLASHER WITH SIGN

NOT TO SCALE

STATE OF MISSOURI
JAMIE F. RANA
NUMBER PE-2005001034
PROFESSIONAL ENGINEER
Jamie F. Rana
01/27/2024 12:34:10 PM
JAMIE F. RANA - CIVIL
MO-PE-2005001034

DATE PREPARED
1/24/2024

ROUTE	STATE
N	MO
DISTRICT	SHEET NO.
SL	79

COUNTY
ST. LOUIS

JOB NO.
J6S3599

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

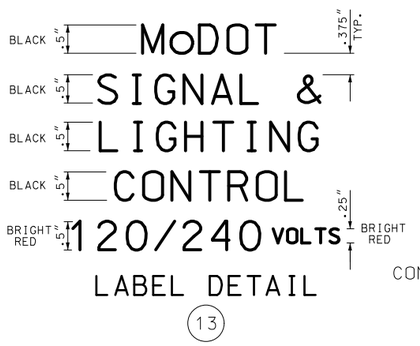
DESCRIPTION	DATE

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)

SPECIAL SHEET
ADVANCED FLASHER
W/ SIGN



LABEL DETAIL

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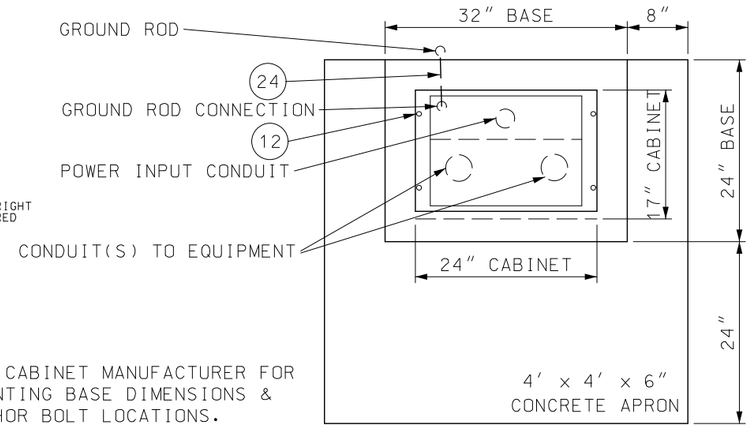
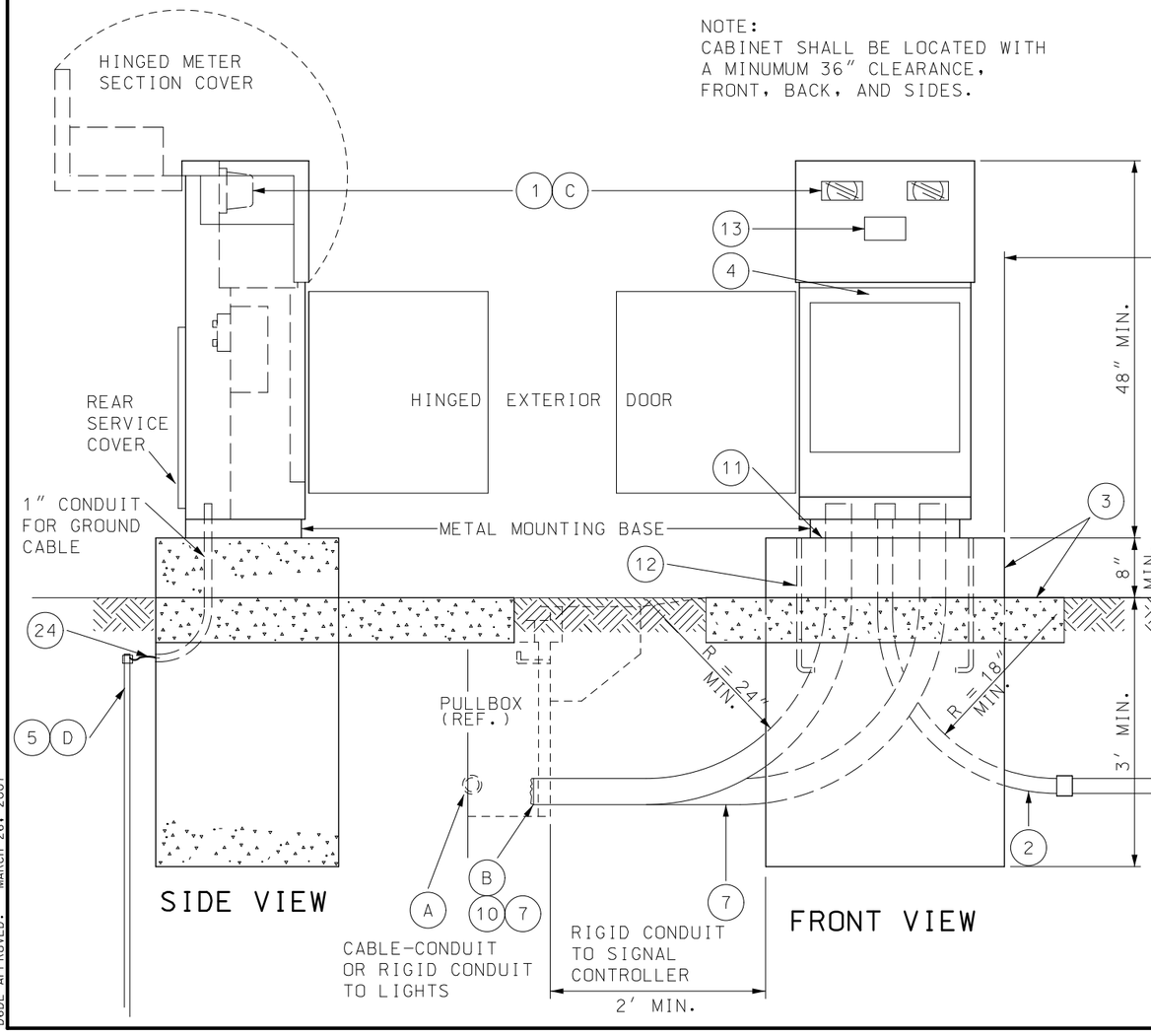


TOP VIEW

SEE CABINET MANUFACTURER FOR MOUNTING BASE DIMENSIONS & ANCHOR BOLT LOCATIONS.

NOTE:
CABINET SHALL BE LOCATED WITH A MINUMUM 36" CLEARANCE, FRONT, BACK, AND SIDES.



SIDE VIEW

FRONT VIEW

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.

DISCLAIMER

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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 LIGHTING 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 LIGHTING CONTROL STATION'.

STATE OF MISSOURI
JAMIE F. RANA
NUMBER PE-2005001034
PROFESSIONAL ENGINEER
Jamie F. Rana
01/27/2024 12:35:00 PM
JAMIE F. RANA - CIVIL
MO-PE-2005001034

DATE PREPARED
1/24/2024

ROUTE	STATE
N	MO
DISTRICT	SHEET NO.
SL	80

COUNTY
ST. LOUIS

JOB NO.
J6S3599

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

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

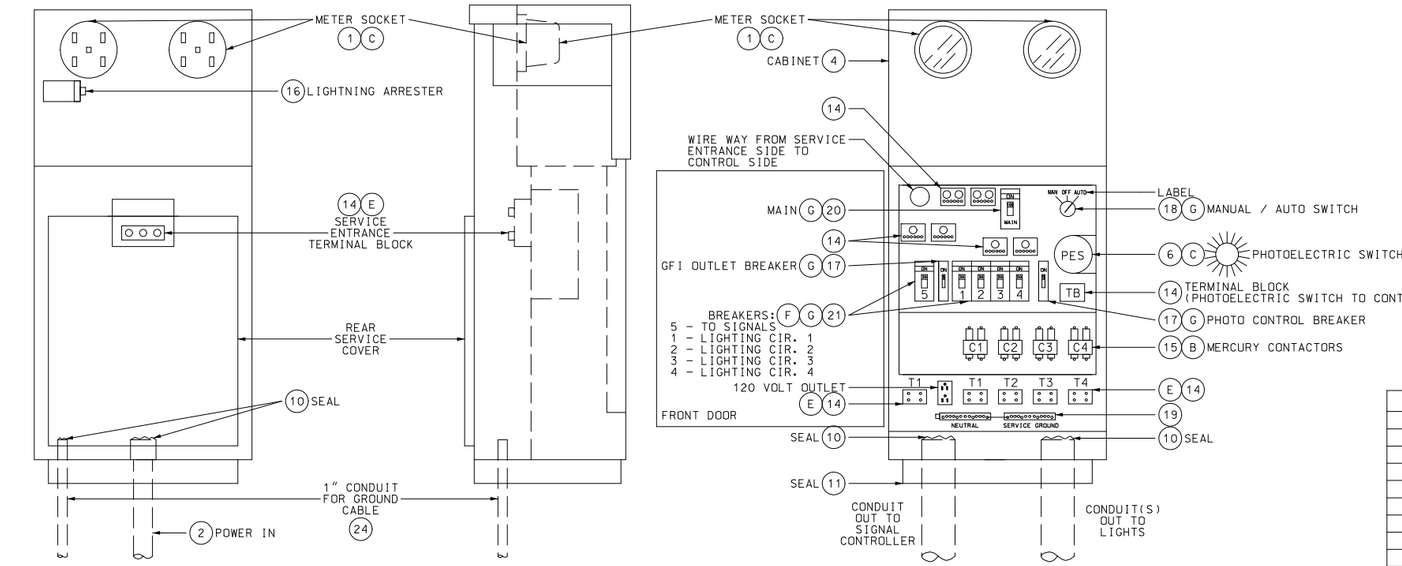
REV.	DESCRIPTION	DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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

SPECIAL SHEET
PAD MOUNTED 120V/240V POWER SUPPLY & LIGHTING CONTROLLER
DUAL METER
SHEET 1 OF 2

D6DE APPROVED: MARCH 26, 2007

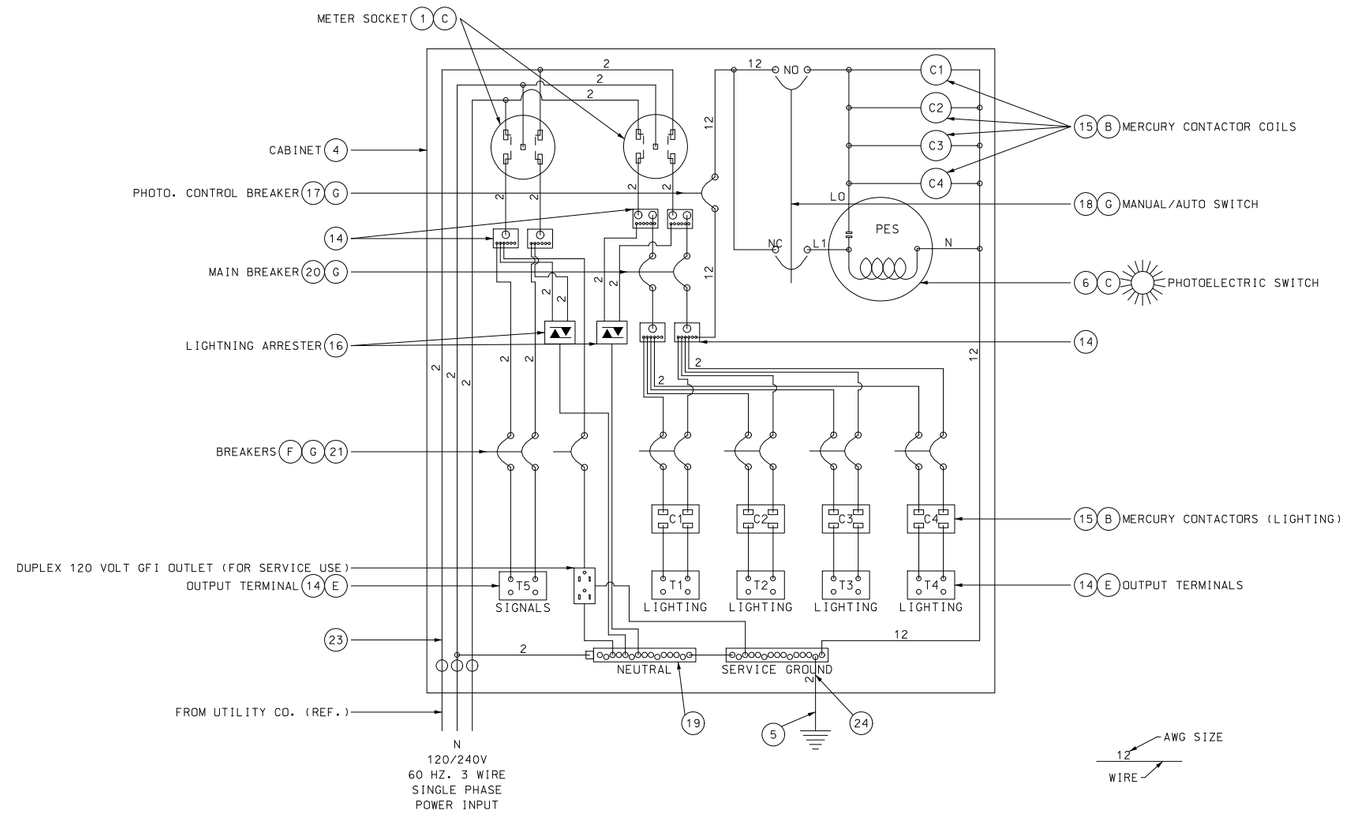


REAR VIEW (SERVICE ENTRANCE)

SIDE VIEW

FRONT VIEW (CONTROL SIDE)

EQUIPMENT LAYOUT



WIRING DIAGRAM

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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
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

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.

STATE OF MISSOURI
JAMIE F. RANA
NUMBER PE-2005001034
PROFESSIONAL ENGINEER
Jamie F. Rana
01/27/2024 12:35:20 PM
JAMIE F. RANA - CIVIL
MO-PE-2005001034

DATE PREPARED: 1/24/2024

ROUTE	STATE
N	MO
DISTRICT	SHEET NO.
SL	81

COUNTY: ST. LOUIS

JOB NO.: J6S3599

CONTRACT ID.:

PROJECT NO.:

BRIDGE NO.:

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

DESCRIPTION	DATE

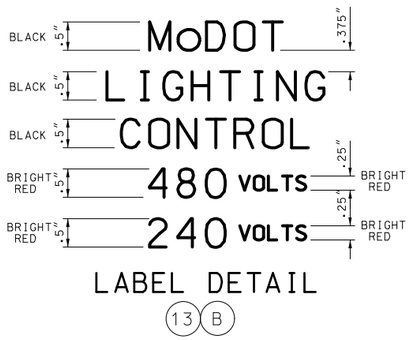
REV.

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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

SPECIAL SHEET
PAD MOUNTED 120V/240V POWER
SUPPLY & LIGHTING CONTROLLER
DUAL METER
SHEET 2 OF 2

D&DE APPROVED: MARCH 26, 2007



LABEL DETAIL

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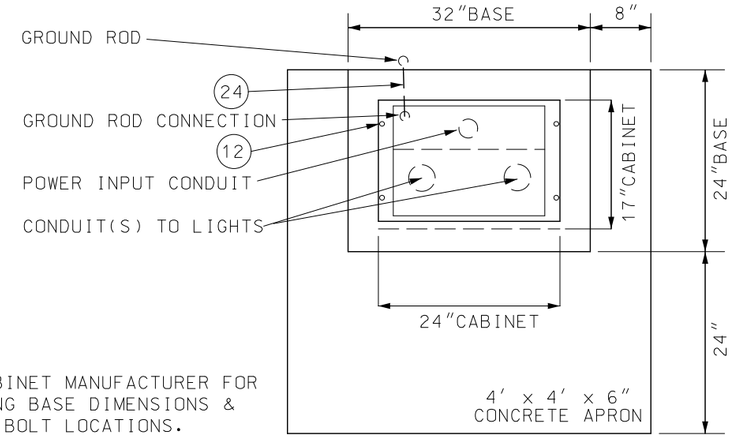
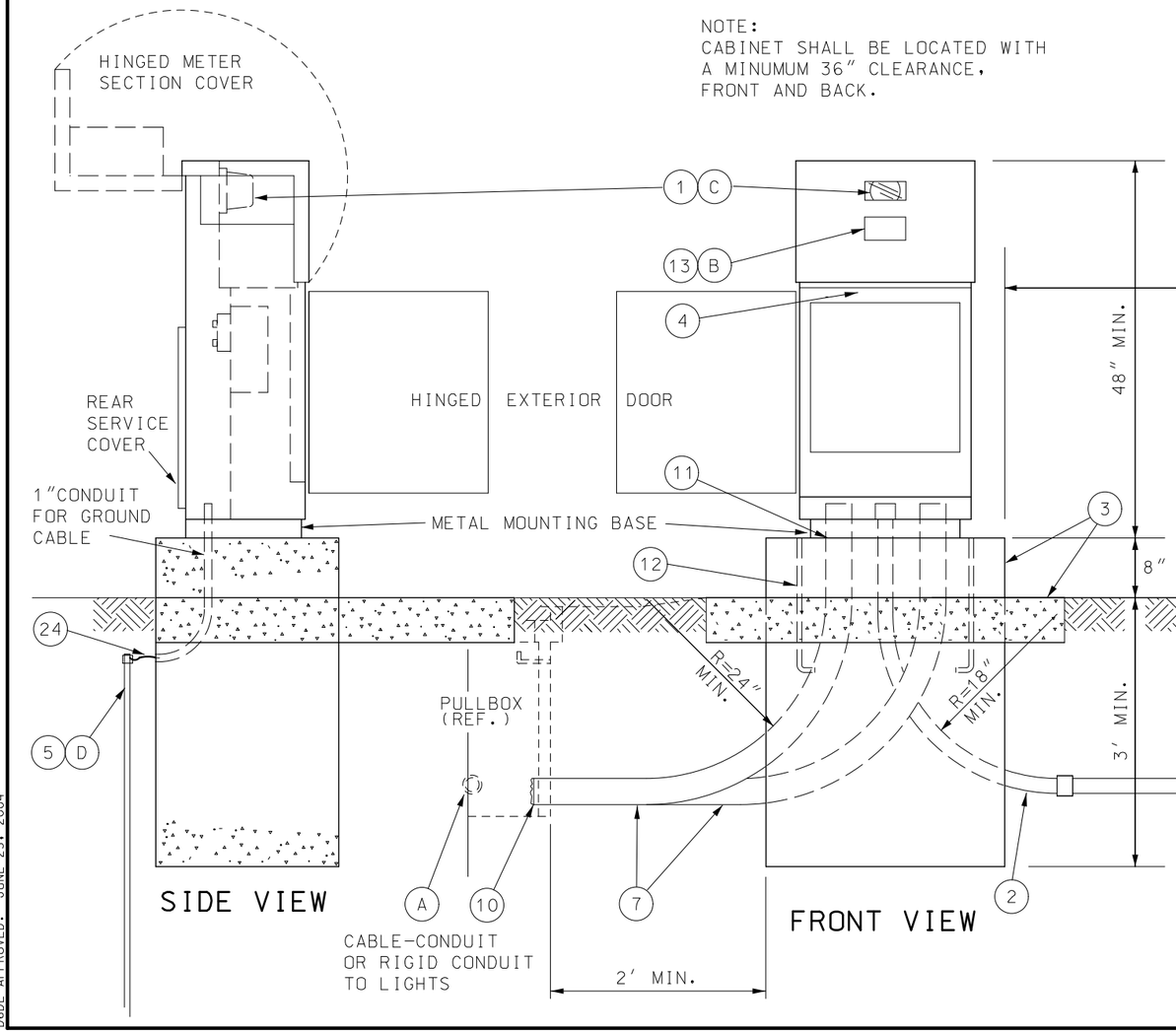


TOP VIEW

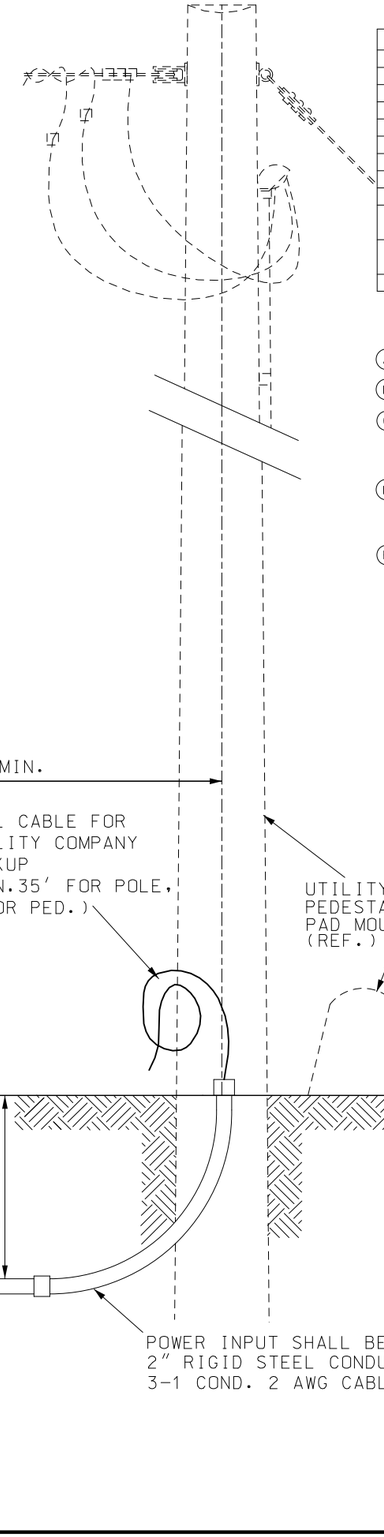
SEE CABINET MANUFACTURER FOR MOUNTING BASE DIMENSIONS & ANCHOR BOLT LOCATIONS.

NOTE:
CABINET SHALL BE LOCATED WITH A MINUMUM 36" CLEARANCE, FRONT AND BACK.



SIDE VIEW

FRONT VIEW



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, 5/8-11 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.

(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.

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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 FOR 240 VOLT AND 11,000 WATTS FOR 480 VOLT.

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 'COMBINATION BASE MOUNTED POWER SUPPLY AND LIGHTING CONTROL STATION'.

CABLE AND CONDUIT FROM POWER SUPPLY ASSEMBLY TO UTILITY COMPANY FACILITIES SHALL BE INCLUDED IN PRICE BID FOR 'COMBINATION BASE MOUNTED POWER SUPPLY AND CONTROL STATION'.

STATE OF MISSOURI
JAMIE F. RANA
NUMBER PE-2005001034
PROFESSIONAL ENGINEER
Jamie F. Rana
01/27/2024 12:36:02 PM
JAMIE F. RANA - CIVIL
MO-PE-2005001034

DATE PREPARED
1/24/2024

ROUTE	STATE
N	MO
DISTRICT	SHEET NO.
SL	82

COUNTY
ST. LOUIS

JOB NO.
J6S3599

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION	DATE

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

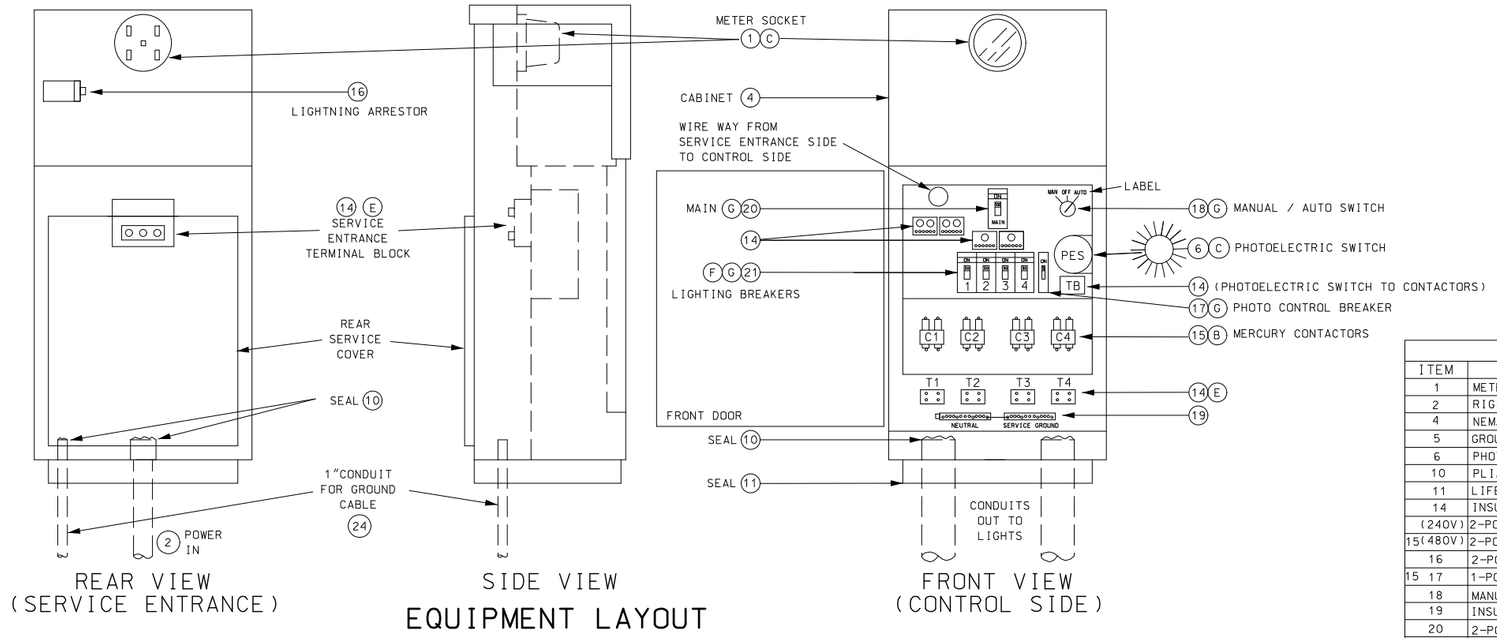
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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

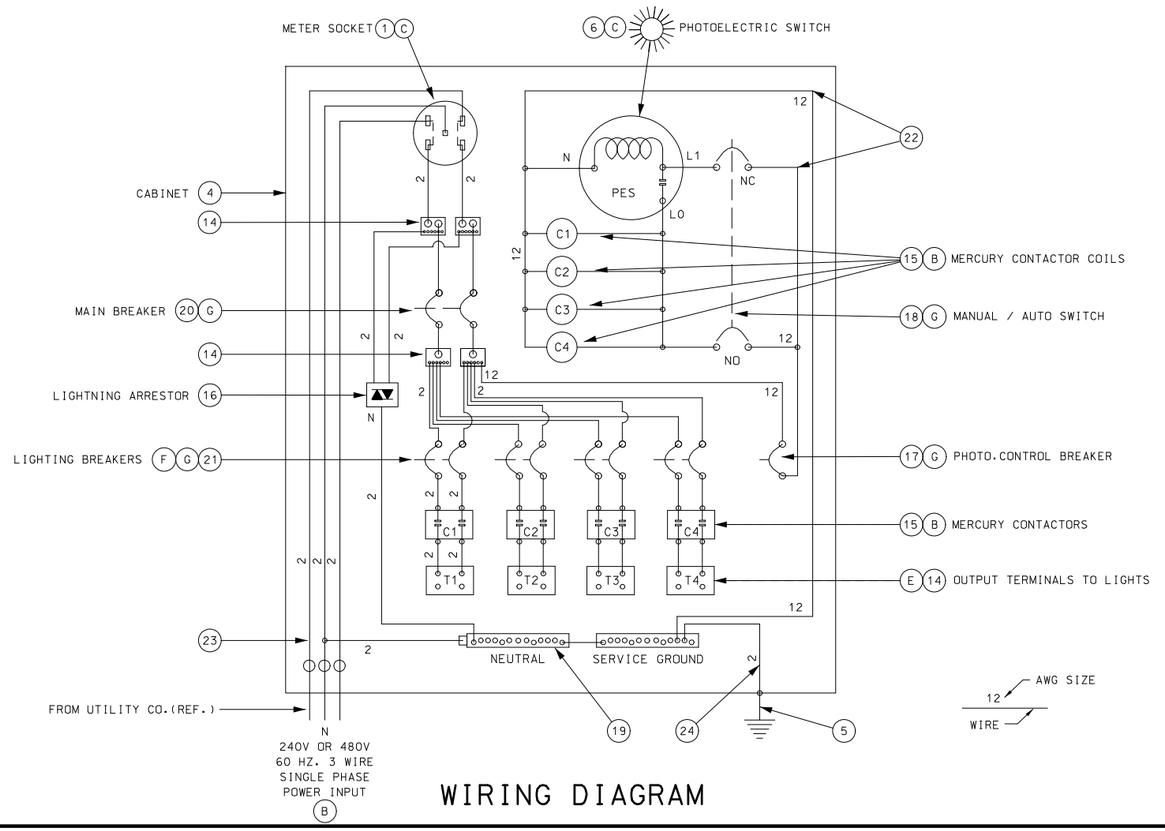
SPECIAL SHEET
PAD MOUNTED 240V/480V POWER SUPPLY & LIGHTING CONTROLLER
SHEET 1 OF 2

REV.

D6DE APPROVED: JUNE 25, 2004



EQUIPMENT LAYOUT



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
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
(240V)	2-POLE, 35 AMP, 120V COIL LIGHTING CONTACTOR (MERCURY)
15(480V)	2-POLE, 35 AMP, 240V COIL LIGHTING CONTACTOR (MERCURY)
16	2-POLE, 650 VOLT LIGHTING ARRESTER
15 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 LIGHTING 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

NOTES

(B) LIGHTING SYSTEM VOLTAGE AS SPECIFIED ON PLANS.

(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) LIGHTING BREAKER SIZING:

SIZE (AMPS)	240V TOTAL CIRCUIT LOAD (WATTS)	480V TOTAL CIRCUIT LOAD (WATTS)
15	0-2800	0 - 5500
20	2850-3700	5550 - 7400
25	3750-4600	7450 - 9200
30	4650-5500	9250 - 11,000
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.

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STATE OF MISSOURI
JAMIE F. RANA
NUMBER PE-2005001034
PROFESSIONAL ENGINEER
Jamie F. Rana
01/27/2024 12:36:29 PM
JAMIE F. RANA - CIVIL
MO-PE-2005001034

DATE PREPARED
1/24/2024

ROUTE	STATE
N	MO
DISTRICT	SHEET NO.
SL	83

COUNTY
ST. LOUIS

JOB NO.
J6S3599

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

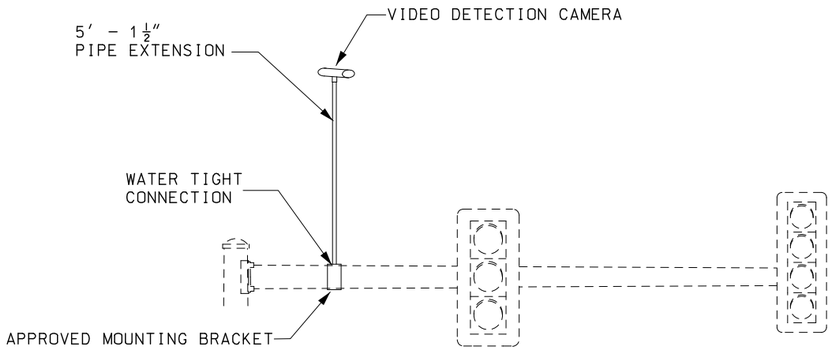
IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

REV.	DESCRIPTION	DATE

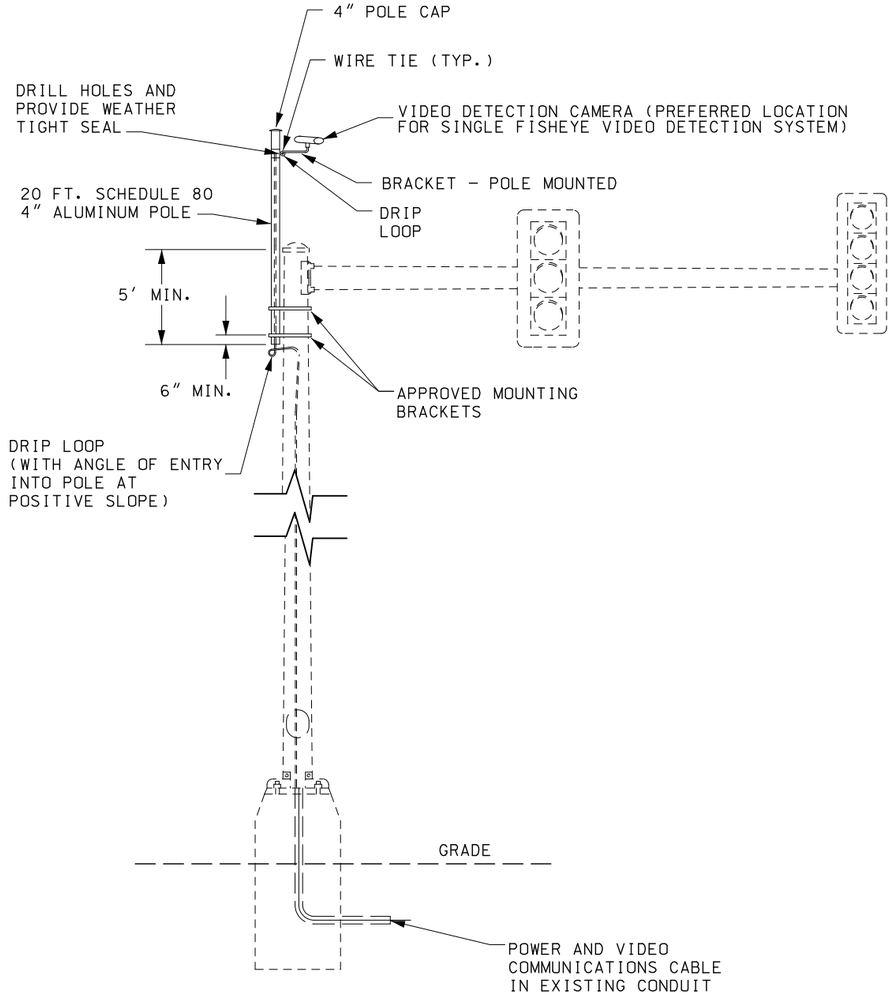
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

SPECIAL SHEET
PAD MOUNTED 240V/480V POWER SUPPLY & LIGHTING CONTROLLER
SHEET 2 OF 2

D6DE APPROVED: JUNE 25, 2004



CAMERAS SHALL BE AS CLOSE AS POSSIBLE TO CENTER OF SIGNALIZED APPROACH



GENERAL NOTES:

1) PROVIDE WATERTIGHT SEAL WHERE CABLES ENTER AND EXIT.
2) CAMERAS SHALL BE INSTALLED PER MANUFACTURER'S SPECIFICATIONS.
3) NO CAMERA SHALL BE INSTALLED ON PEDESTALS UNLESS DIRECTED BY THE ENGINEER.
4) NO CAMERA SHALL BE INSTALLED ON 15' LUMINAIRE ARM UNLESS OTHERWISE DIRECTED BY THE ENGINEER.

NOT TO SCALE

REVISED 07/27/2023

DISCLAIMER
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D6DE APPROVED: JULY 27, 2023

STATE OF MISSOURI
JAMIE F. RANA
NUMBER PE-2005001034
PROFESSIONAL ENGINEER
Jamie F. Rana
01/27/2024 12:37:03 PM
JAMIE F. RANA - CIVIL
MO-PE-2005001034

DATE PREPARED
1/24/2024

ROUTE	STATE
N	MO
DISTRICT	SHEET NO.
SL	84

COUNTY
ST. LOUIS

JOB NO.
J6S3599

CONTRACT ID.

PROJECT NO.

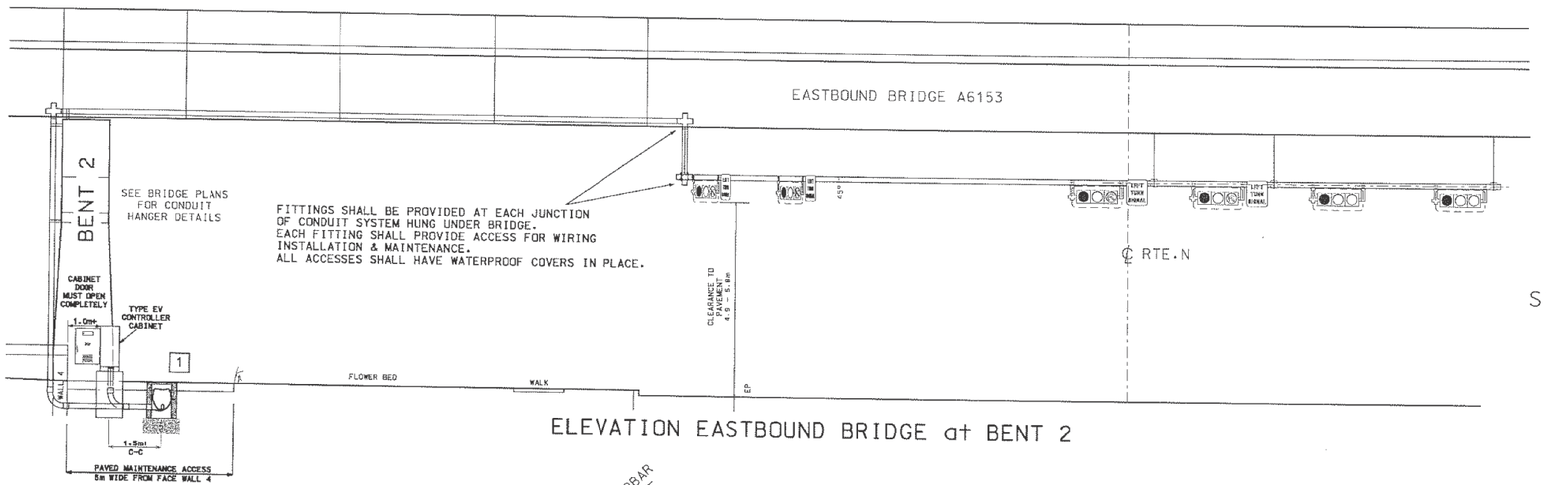
BRIDGE NO.

DESCRIPTION	DATE

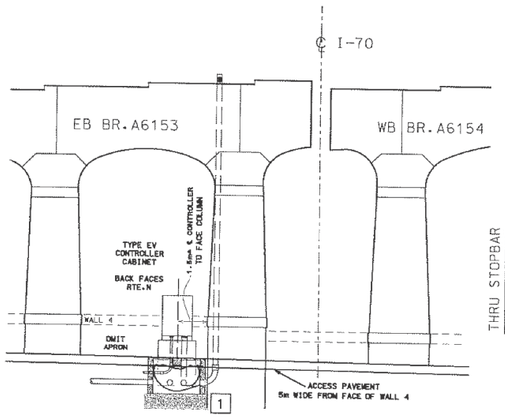
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

SIGNAL SHEET
VIDEO DETECTION
DETAIL SHEET

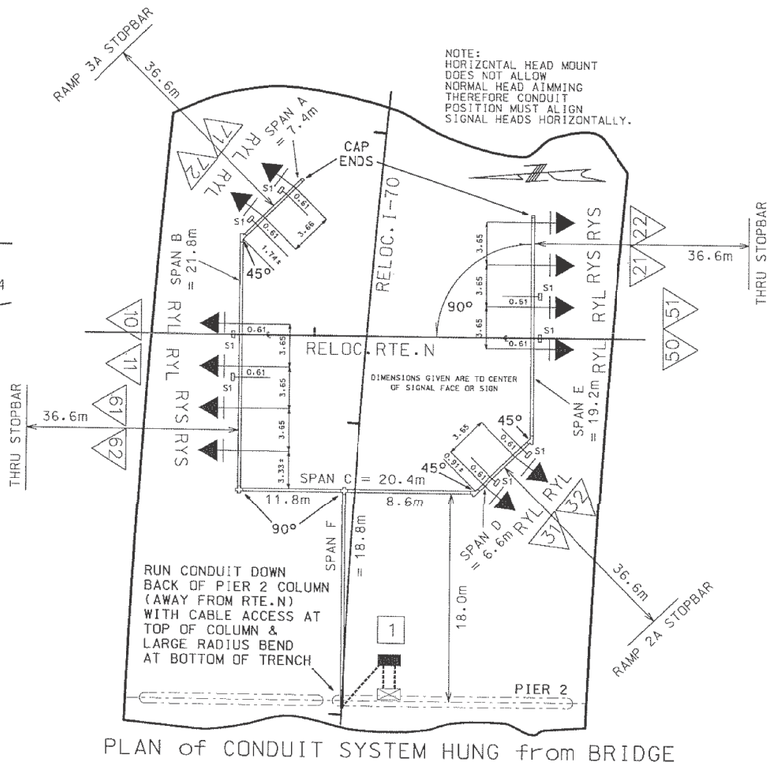
JULY 27, 2023



ELEVATION EASTBOUND BRIDGE at BENT 2

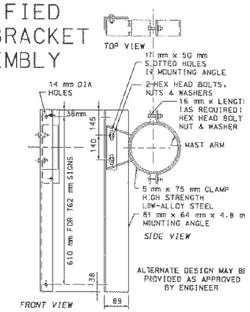


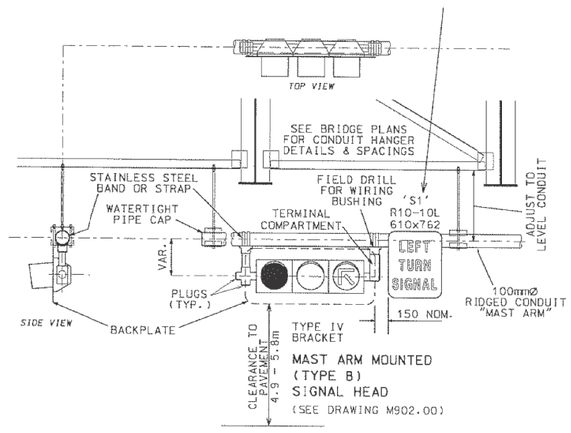
ELEVATION at BENT 2
CONTROLLER LOCATION



PLAN of CONDUIT SYSTEM HUNG from BRIDGE

MODIFIED SIGN BRACKET ASSEMBLY





DETAIL of UNDER-BRIDGE SIGNAL HEAD MOUNTING

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.

FOR INFORMATIONAL PURPOSES ONLY

NOT TO SCALE

STATE OF MISSOURI
JAMIE F. RANA
NUMBER PE-2005001034
PROFESSIONAL ENGINEER
Jamie F. Rana
01/29/2024 9:03:44 AM
JAMIE F. RANA - CIVIL
MO-PE-2005001034

DATE PREPARED
1/24/2024

ROUTE	STATE
N	MO
DISTRICT	SHEET NO.
SL	85

COUNTY
ST. LOUIS

JOB NO.
J6S3599

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)

SPECIAL SHEET
EXIST. SIGNALS
MOUNTED TO I-70
BRIDGE

DISCLAIMER

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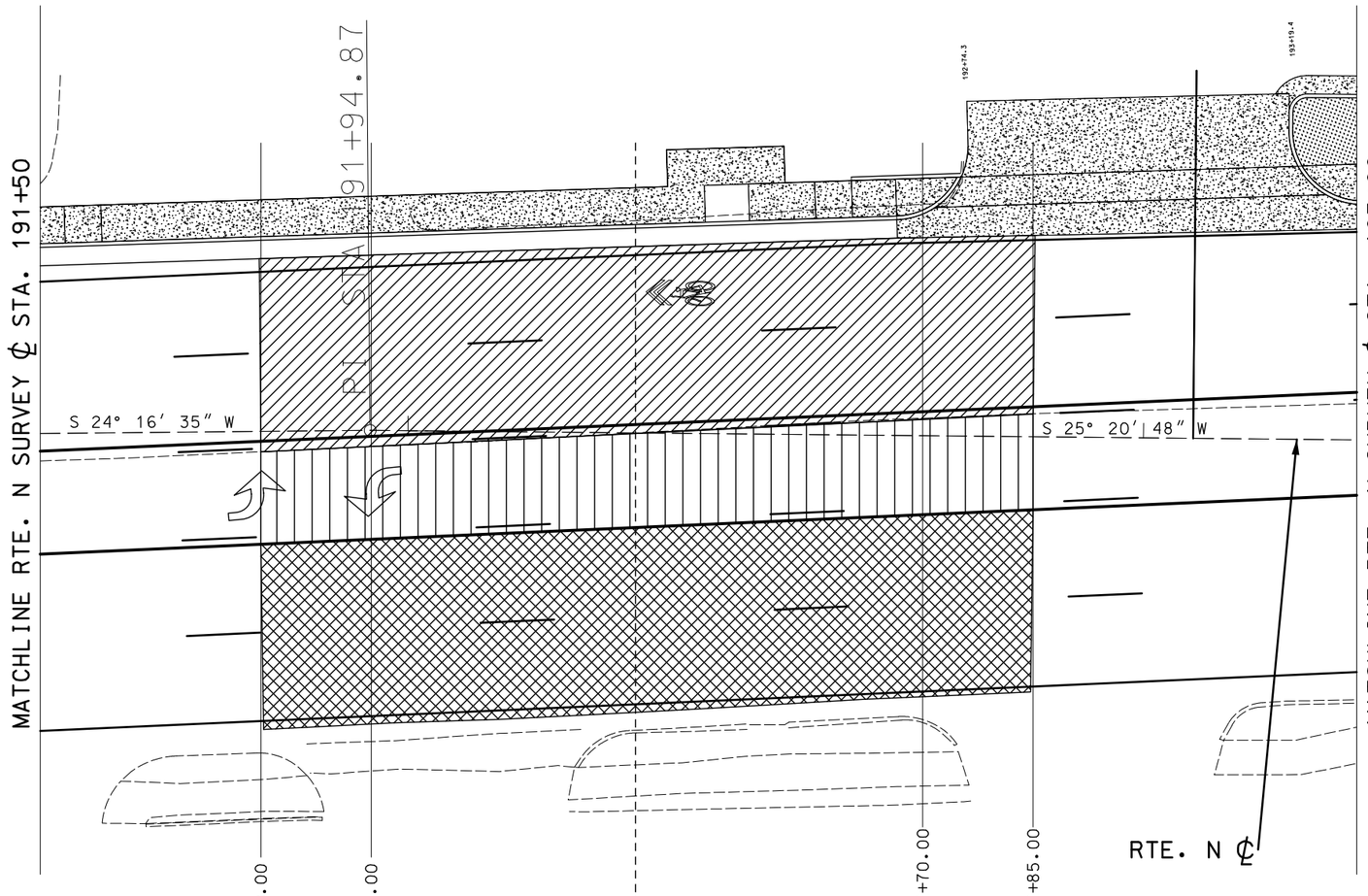
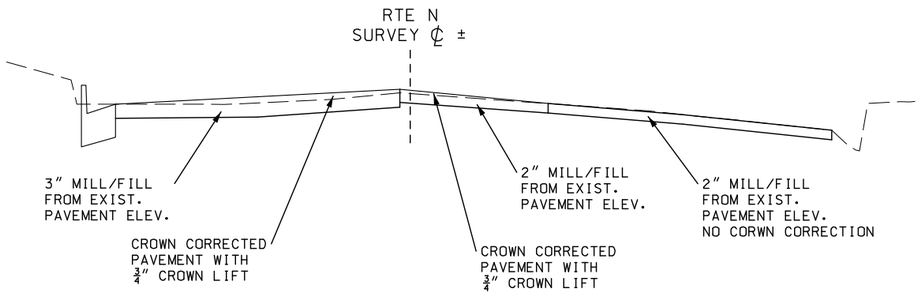
LEGEND	
	±3" MILL/FILL W/ CROWN CORRECTION SP125CLP w/ PG 70-22
	±2" MILL/FILL w/ CROWN CORRECTION SP125CLP w/ PG 70-22
	2" MILL/FILL w/ NO CROWN CORRECTION SP125CLP w/ PG 70-22





NOTE: THE SOUTHBOUND LANES WILL NOT BE CROWN CORRECTED

NOTE: THE CROWN CORRECTED AREA WILL HAVE A VARIABLE THICKNESS

NOT TO SCALE

STATE OF MISSOURI
JAMIE F. RANA
NUMBER PE-2005001034
PROFESSIONAL ENGINEER
Jamie F. Rana
01/27/2024 12:39:50 PM
JAMIE F. RANA - CIVIL
MO-PE-2005001034

DATE PREPARED: 1/24/2024

ROUTE	STATE
N	MO
DISTRICT	SHEET NO.
SL	86A

COUNTY: ST. LOUIS

JOB NO.: J6S3599

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)

SPECIAL SHEET
CROWN CORRECTIONS
SHEET 1 OF 2

DISCLAIMER

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LEGEND	
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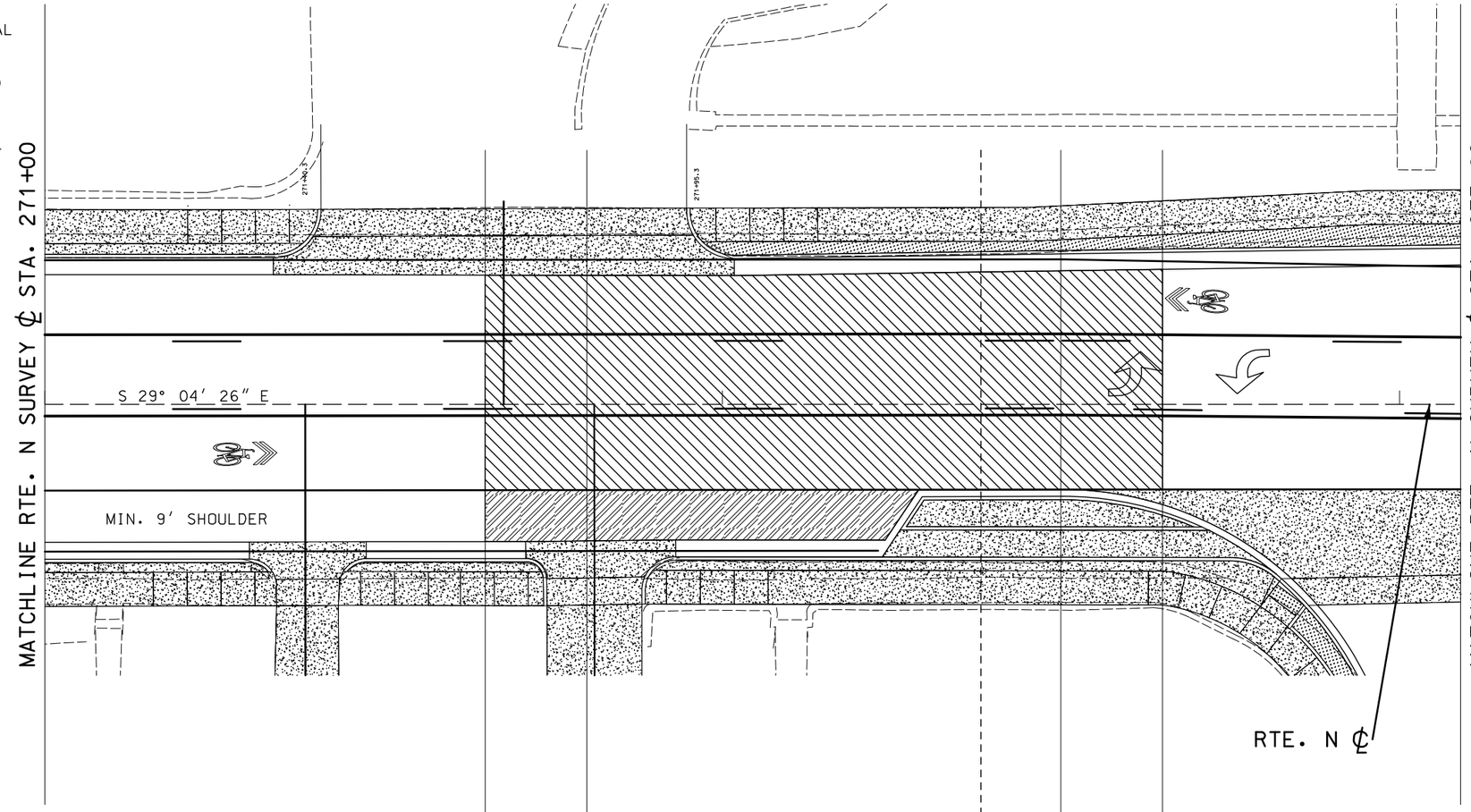
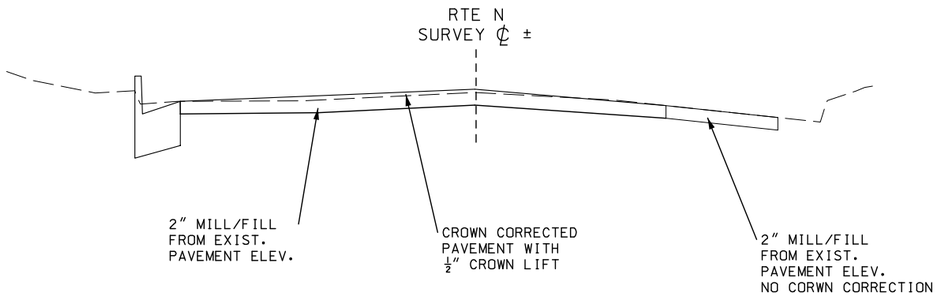
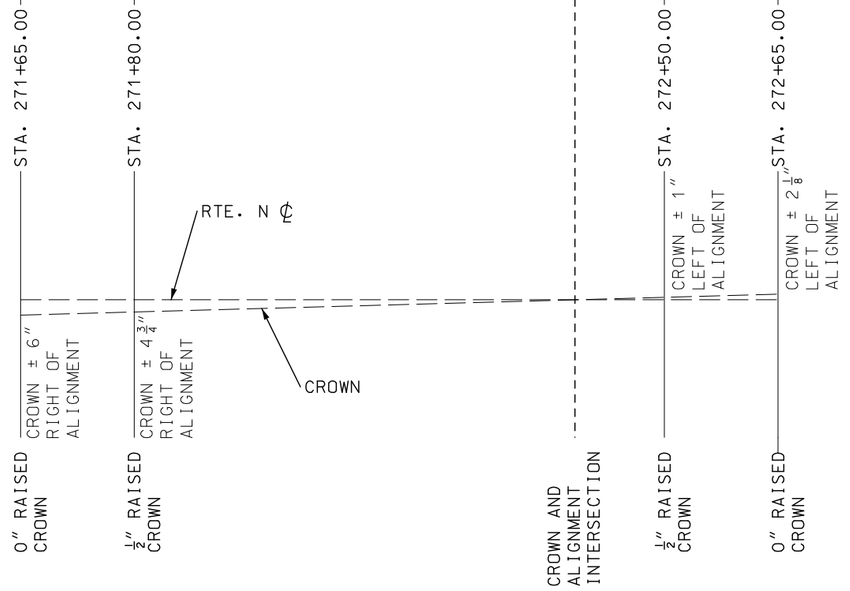
	2″ MILL/FILL w/ NO CROWN CORRECTION BP-1 w/ PG 64-22







NOTE: THE CROWN CORRECTED AREA WILL HAVE A VARIABLE THICKNESS

NOTE: THE 9′ SHOULDER WILL NOT BE CROWN CORRECTED

NOT TO SCALE

STATE OF MISSOURI
JAMIE F. RANA
NUMBER PE-2005001034
PROFESSIONAL ENGINEER

Jamie F. Rana
01/27/2024 12:40:57 PM
JAMIE F. RANA - CIVIL
MO-PE-2005001034

DATE PREPARED
1/24/2024

ROUTE	STATE
N	MO
DISTRICT	SHEET NO.
SL	86B

COUNTY
ST. LOUIS

JOB NO.
J6S3599

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

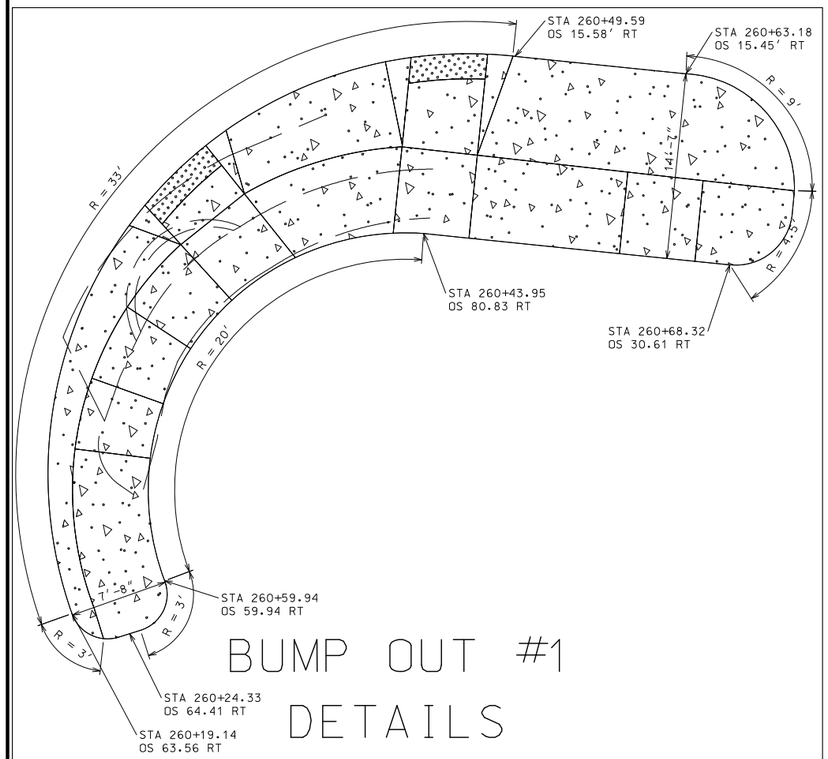
DESCRIPTION	DATE

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)

SPECIAL SHEET
CROWN CORRECTIONS
SHEET 2 OF 2



BUMP OUT #1 DETAILS

DISCLAIMER

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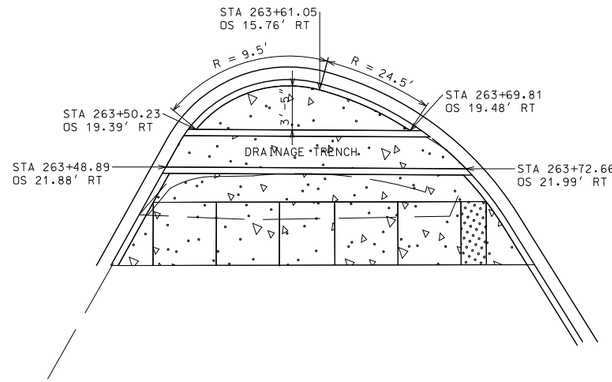
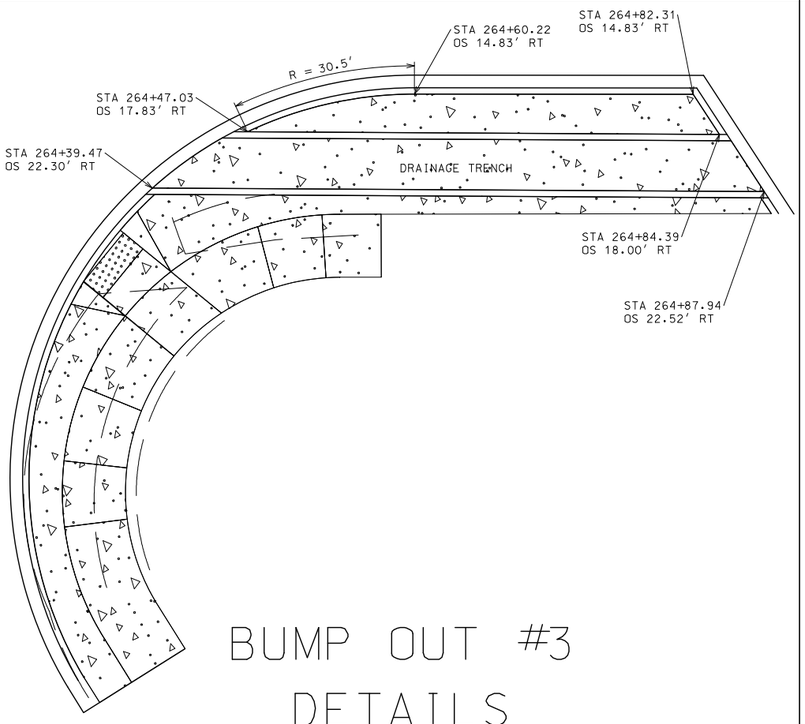
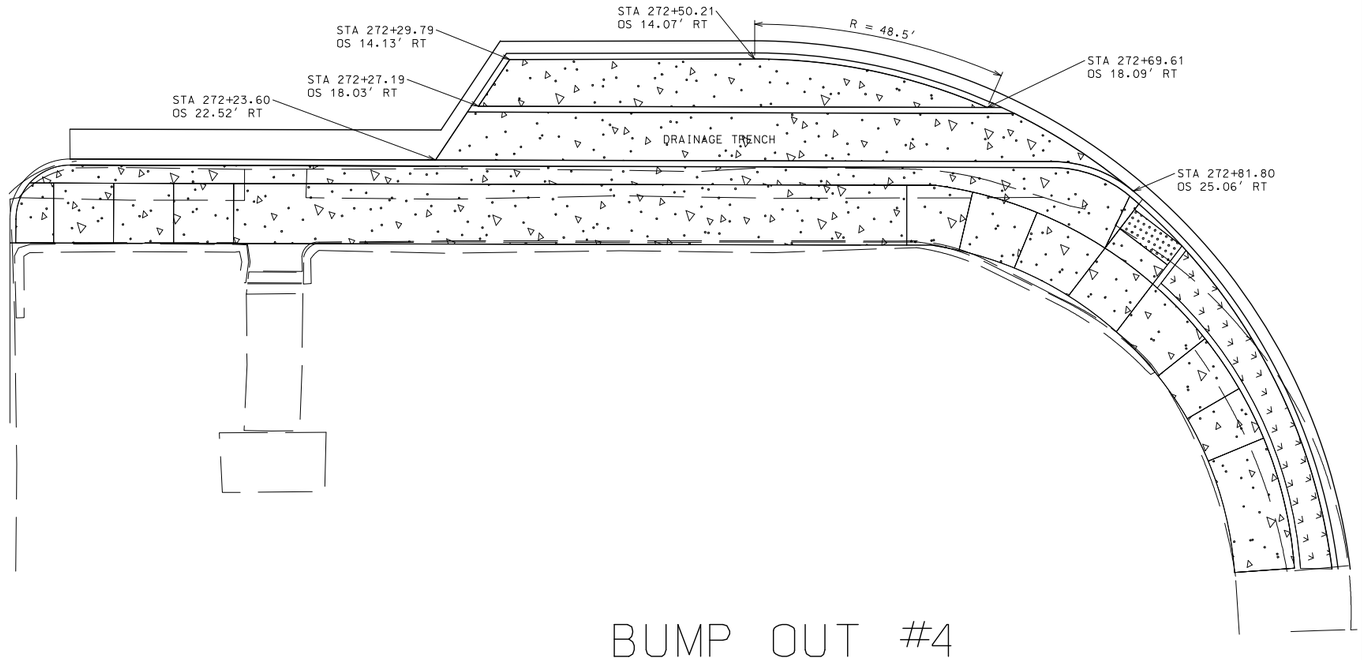
NOT TO SCALE



BUMP OUT #2 DETAILS



BUMP OUT #3 DETAILS



BUMP OUT #4 DETAILS

STATE OF MISSOURI
JAMIE F. RANA
NUMBER PE-2005001034
PROFESSIONAL ENGINEER
Jamie F. Rana
01/27/2024 12:41:47 PM
JAMIE F. RANA - CIVIL
MO-PE-2005001034

DATE PREPARED
1/24/2024

ROUTE	STATE
N	MO
DISTRICT	SHEET NO.
SL	87

COUNTY
ST. LOUIS

JOB NO.
J6S3599

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)

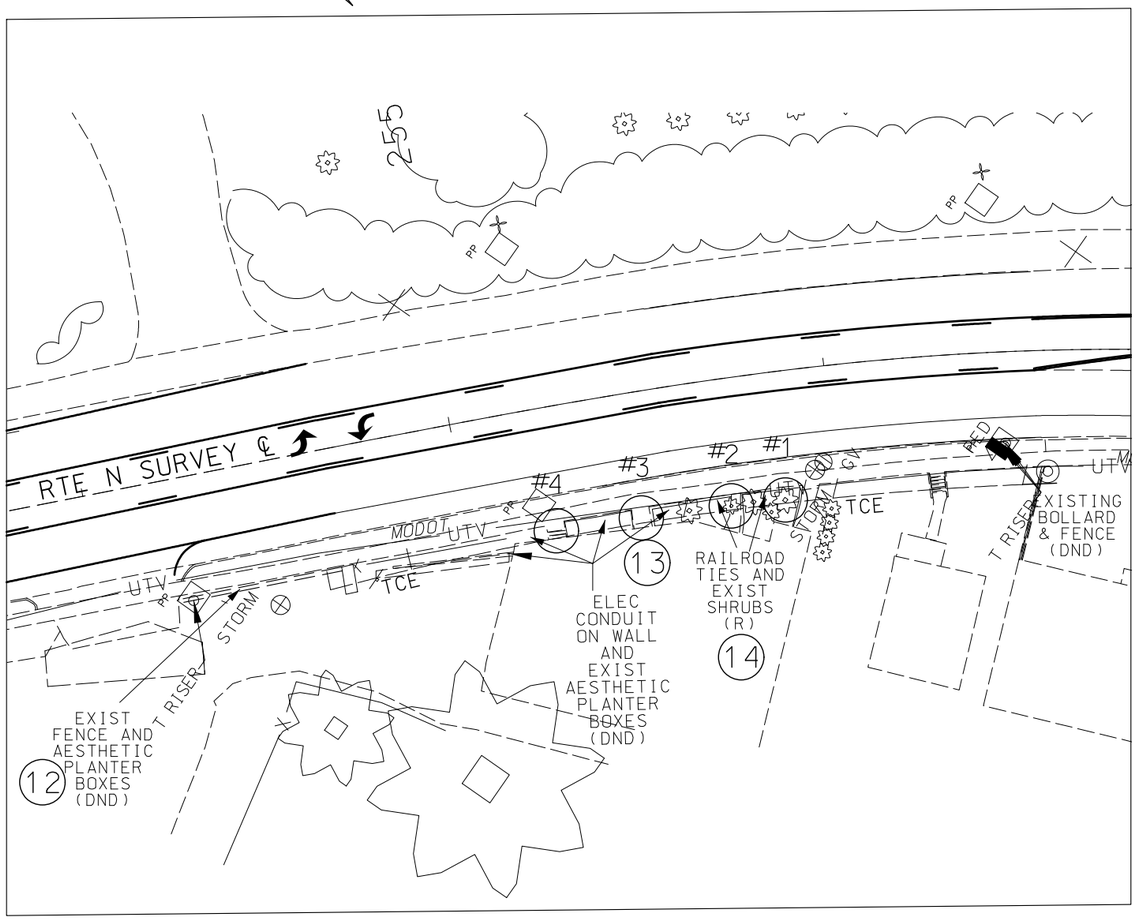
SPECIAL SHEET
BUMP OUT DETAILS

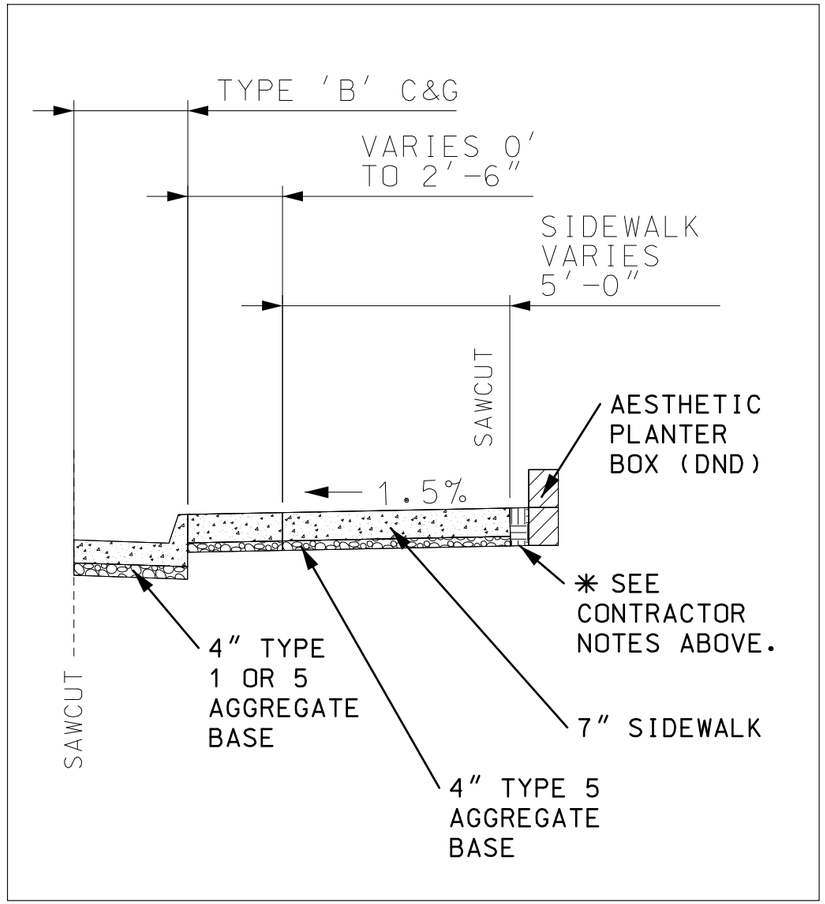
IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

✳ CONTRACTOR NOTES:
1. CONTRACTOR SHALL SAWCUT AND THEN REMOVE THE LAST 6″ OF EXISTING SIDEWALK NEXT TO (DND) AESTHETIC PLANTER BOXES BY HAND.

2. CONTRACTOR'S FORMS SHALL BE SET UP IN THIS AREA PRIOR TO CONTRUCTION. CONTRACTOR SHALL INSTALL A CLEAR PLASTIC TARP TO PROTECT THE AESTHETIC PLANTER BOXES.

3. AFTER CONSTRUCTION, THE CONTRACTOR SHALL INSTALL MULCH IN THIS 6″ STRIP AREA (NO DIRECT PAY).





DISCLAIMER
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NOT TO SCALE

#1 #2 #3 #4

STATE OF MISSOURI
JAMIE F. RANA
NUMBER PE-2005001034
PROFESSIONAL ENGINEER
Jamie F. Rana
01/27/2024 12:42:59 PM
JAMIE F. RANA - CIVIL
MO-PE-2005001034

DATE PREPARED
1/24/2024

ROUTE	STATE
N	MO
DISTRICT	SHEET NO.
SL	88A

COUNTY
ST. LOUIS

JOB NO.
J6S3599

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)

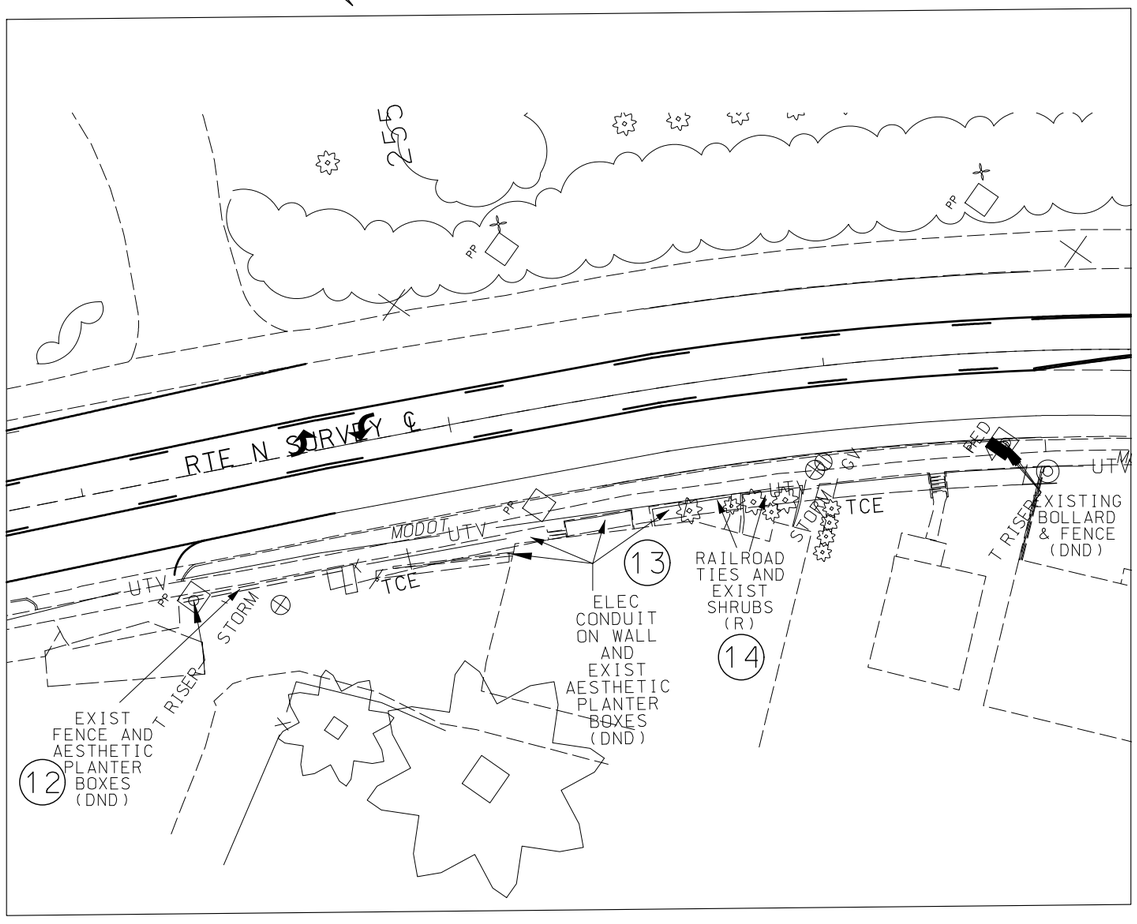
SPECIAL SHEET
PARCELS #12, #13, #14
PLAN SHEET

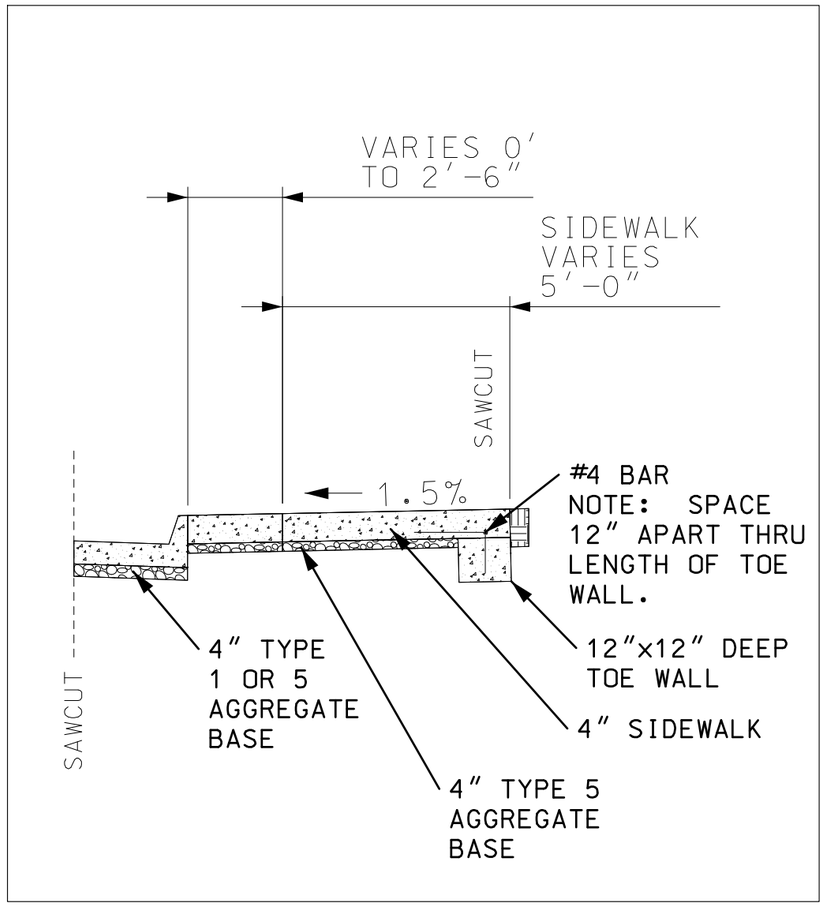
✳ CONTRACTOR NOTES:

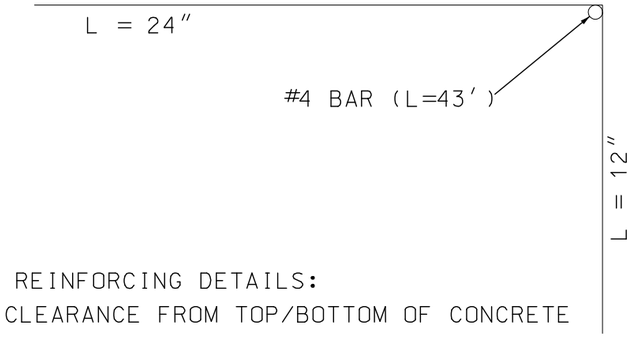
1. NO DIRECT PAYMENT SHALL BE MADE FOR ADDITIONAL SIDEWALK CONCRETE NEEDED TO CONSTRUCT TOE WALL OR INSTALL THE STEEL REINFORCEMENT.

2. AFTER CONSTRUCTION, THE CONTRACTOR SHALL INSTALL MULCH IN THIS 6″ STRIP AREA (NO DIRECT PAY).

3. EST. ADDITIONAL SIDEWALK CONC. FOR TOE WALL = 43′ x 1′ x 1′ = 1.6 C.Y.







STEEL REINFORCING DETAILS:
PROVIDE MIN. 1.5″ CLEARANCE FROM TOP/BOTTOM OF CONCRETE

DISCLAIMER

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NOT TO SCALE

STATE OF MISSOURI
JAMIE F. RANA
NUMBER PE-2005001034
PROFESSIONAL ENGINEER
Jamie F. Rana
01/27/2024 12:43:47 PM
JAMIE F. RANA - CIVIL
MO-PE-2005001034

DATE PREPARED
1/24/2024

ROUTE	STATE
N	MO
DISTRICT	SHEET NO.
SL	88B

COUNTY
ST. LOUIS

JOB NO.
J6S3599

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)

SPECIAL SHEET
TOE WALL
DETAIL

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

DISCLAIMER
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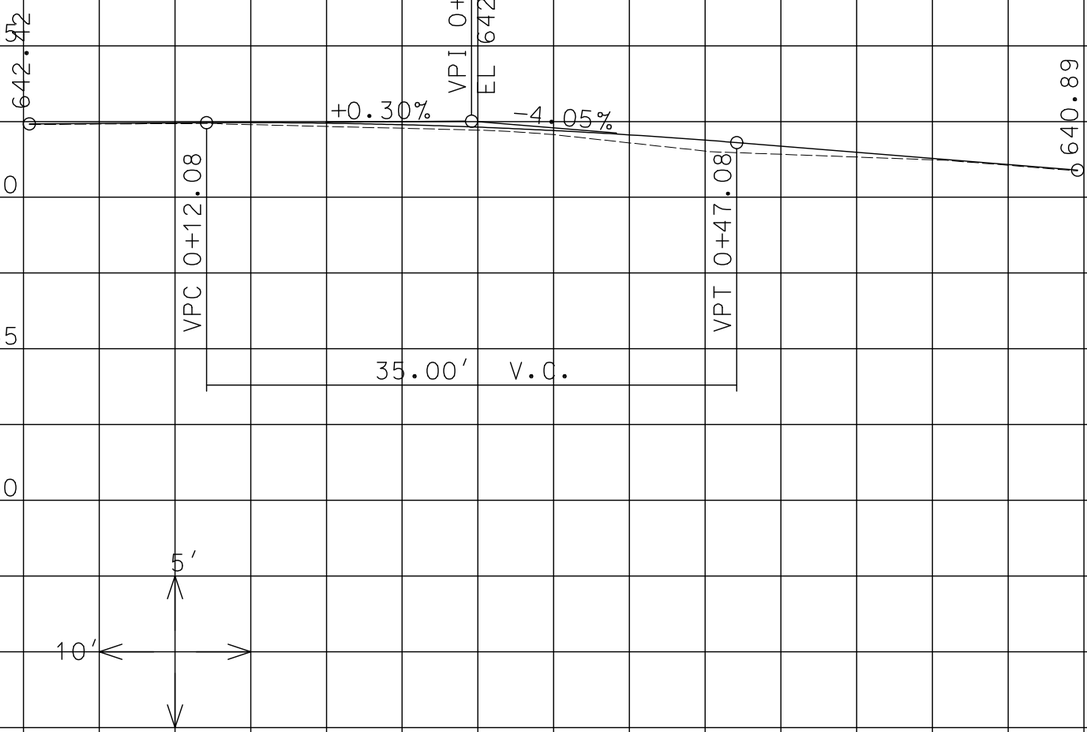


STATE OF MISSOURI
JAMIE F. RANA
NUMBER PE-2005001034
PROFESSIONAL ENGINEER
Jamie F. Rana
01/27/2024 2:07:52 PM
JAMIE F. RANA - CIVIL
MO-PE-2005001034

DATE PREPARED
1/24/2024

ROUTE	STATE
N	MO
DISTRICT	SHEET NO.
SL	89

COUNTY
ST. LOUIS

JOB NO.
J6S3599

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

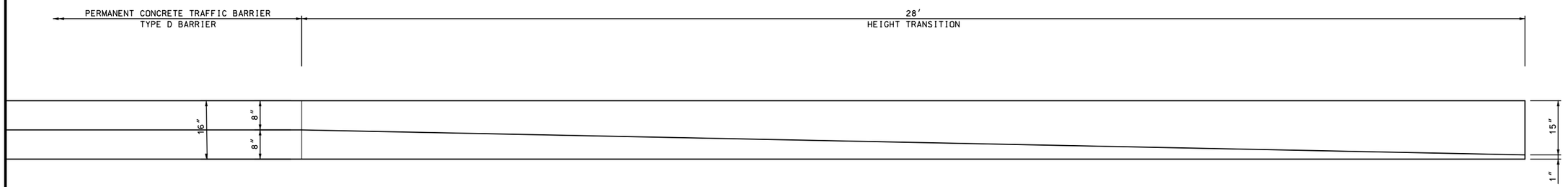
IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

DATE	DESCRIPTION

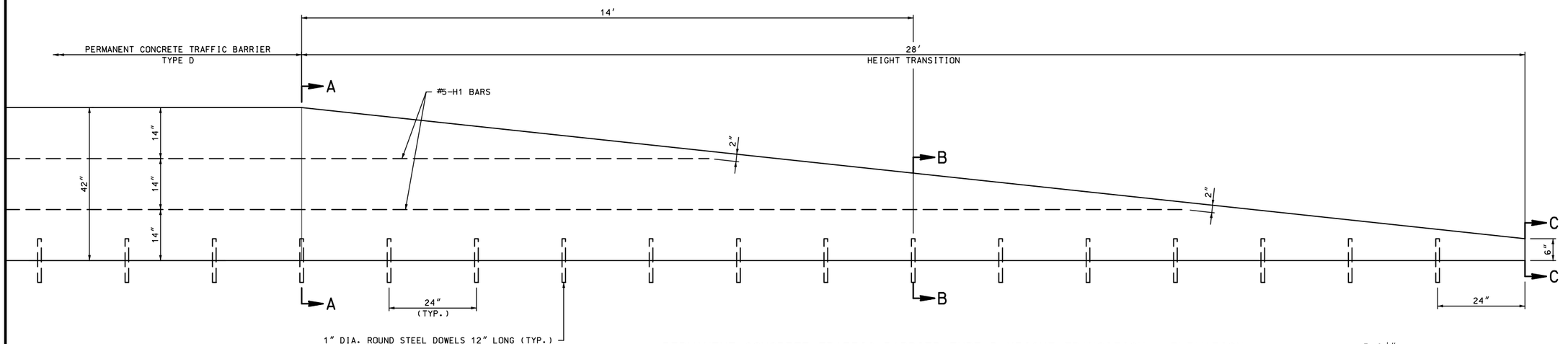
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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

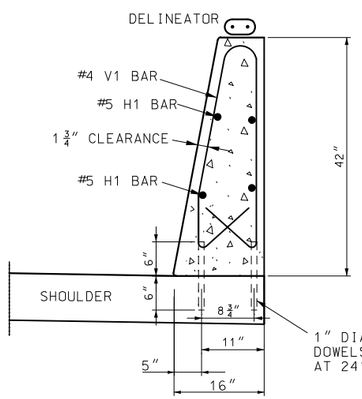
SPECIAL SHEET
ST. ANNS PROFILE



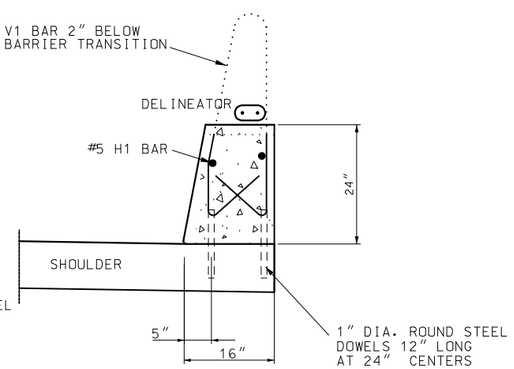
PERMANENT CONCRETE TRAFFIC BARRIER TYPE D HEIGHT TRANSITION – PLAN



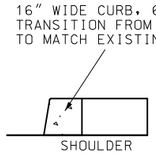
PERMANENT CONCRETE TRAFFIC BARRIER TYPE D HEIGHT TRANSITION – ELEVATION



SECTION A–A



SECTION B–B



SECTION C–C

DISCLAIMER

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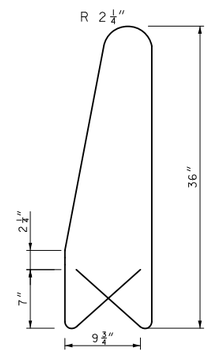


V1 BAR (#4)

NOTES:

PERMANENT CONCRETE TRAFFIC BARRIER TYPE D AND HEIGHT TRANSITION SHALL BE CONSTRUCTED IN ACCORDANCE WITH SECTION 617 OF THE MISSOURI STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION AND IN ACCORDANCE WITH MISSOURI STANDARD PLAN 617.10 EXCEPT AS MODIFIED BY THIS DRAWING.

PERMANENT CONCRETE TRAFFIC BARRIER, TYPE D HEIGHT TRANSITION TO BE PAID FOR AS CONCRETE TRAFFIC BARRIER, TYPE D.

MIN. PAVEMENT THICKNESS UNDER BARRIER SHALL BE 7.5″ CONCRETE.

STATE OF MISSOURI
JAMIE F. RANA
NUMBER PE-2005001034
PROFESSIONAL ENGINEER

Jamie F. Rana
01/27/2024 2:08:31 PM
JAMIE F. RANA - CIVIL
MO-PE-2005001034
DATE PREPARED
1/24/2024

ROUTE	STATE
N	MO
DISTRICT	SHEET NO.
SL	90

COUNTY
ST. LOUIS

JOB NO.
J6S3599

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

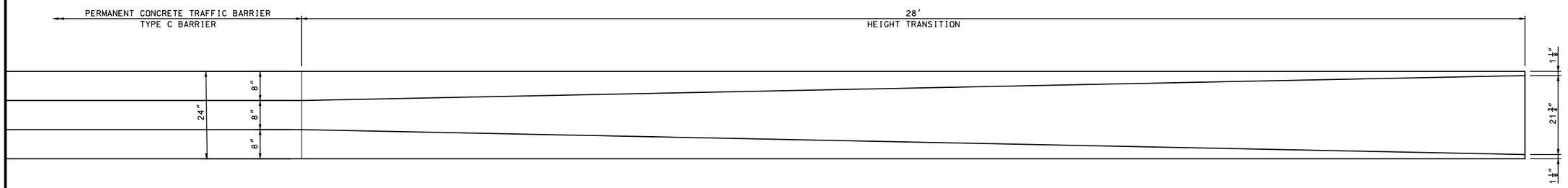
DESCRIPTION	DATE

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)

SPECIAL SHEET
TYPE 'D'
BARRIER TRANSITION TO CURB

REV.



PERMANENT CONCRETE TRAFFIC BARRIER TYPE C HEIGHT TRANSITION – PLAN

DISCLAIMER

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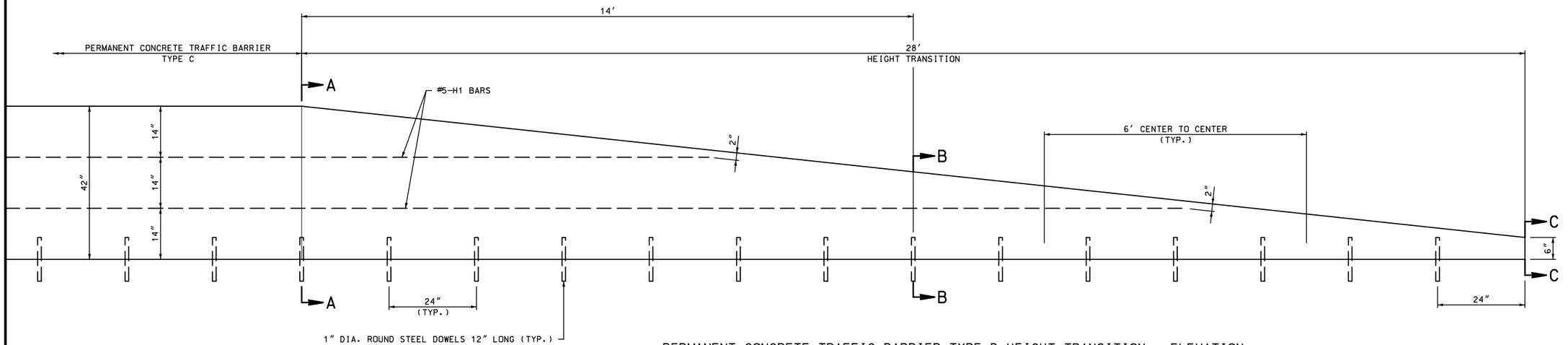
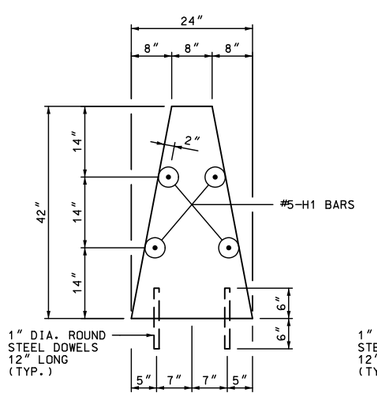
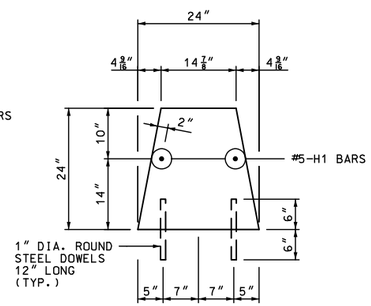


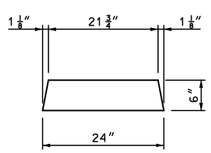
PERMANENT CONCRETE TRAFFIC BARRIER TYPE D HEIGHT TRANSITION – ELEVATION



SECTION A–A



SECTION B–B



SECTION C–C

NOTE: IF SIDEWALK IS ALONG THE BACKSIDE OF WIDE CURB AT SECTION C–C, THEN THAT FACE SHALL BE FLUSH WITH THE SIDEWALK.

NOTES:

PERMANENT CONCRETE TRAFFIC BARRIER TYPE C AND HEIGHT TRANSITION SHALL BE CONSTRUCTED IN ACCORDANCE WITH SECTION 617 OF THE MISSOURI STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION AND IN ACCORDANCE WITH MISSOURI STANDARD PLAN 617.10 EXCEPT AS MODIFIED BY THIS DRAWING.

PERMANENT CONCRETE TRAFFIC BARRIER, TYPE C (PERFORATED) HEIGHT TRANSITION TO BE PAID FOR AS CONCRETE TRAFFIC BARRIER, TYPE C (PERFORATED).

MIN. PAVEMENT THICKNESS UNDER BARRIER SHALL BE 7.5″ CONCRETE.

STATE OF MISSOURI
JAMIE F. RANA
NUMBER PE-2005001034
PROFESSIONAL ENGINEER
Jamie F. Rana
01/27/2024 2:08:59 PM
JAMIE F. RANA - CIVIL
MO-PE-2005001034

DATE PREPARED
1/24/2024

ROUTE	STATE
N	MO
DISTRICT	SHEET NO.
SL	91

COUNTY
ST. LOUIS

JOB NO.
J6S3599

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION	DATE

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

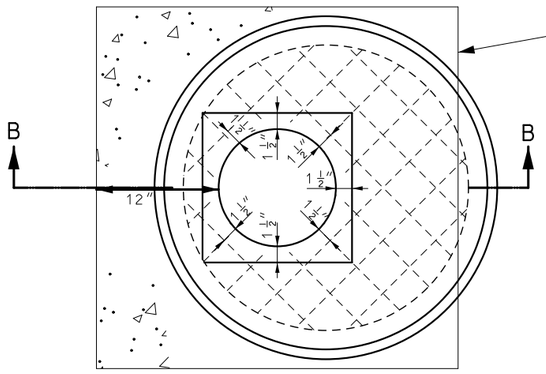
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

SPECIAL SHEET
TYPE 'C' BARRIER TRANSITION

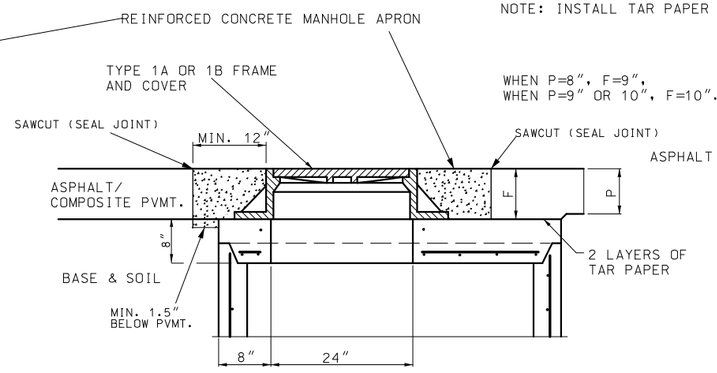
REV.

NOTE: INSTALL TAR PAPER BETWEEN FRAME & COVER AND THE NEW CONCRETE MANHOLE APRON AS DIRECTED BY THE ENGINEER.

MSD PERMIT# 23MSD-00482

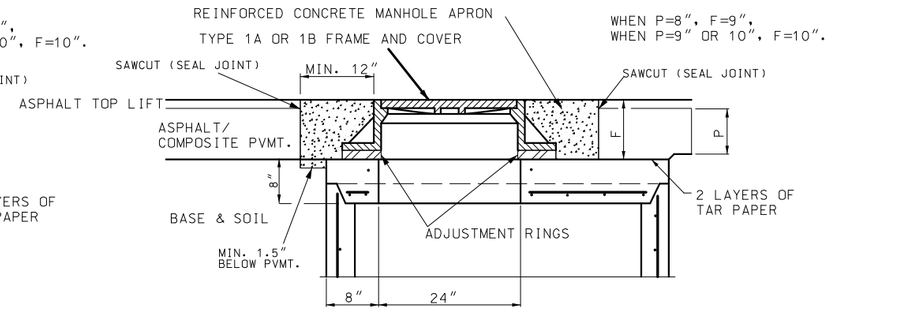


PLAN OF FLAT SLAB MANHOLE TOP



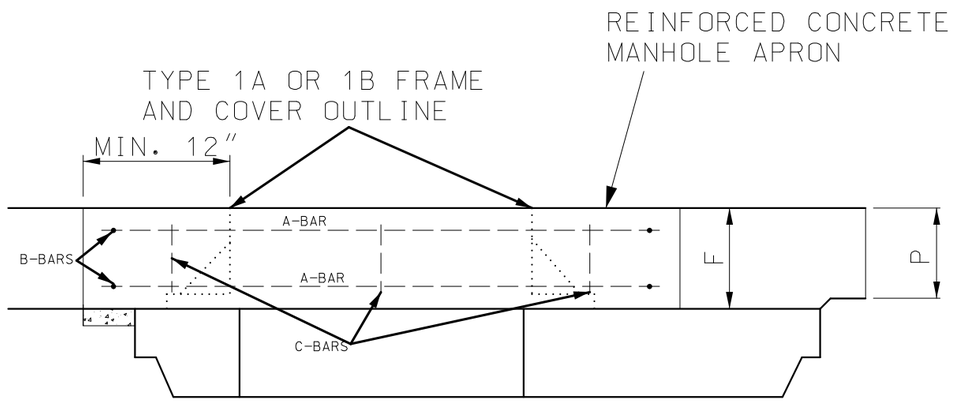
FLAT SLAB MANHOLE TOP (PAVED AREA)

SECTION B–B



FLAT SLAB MANHOLE TOP (PAVED AREA) W/ ADJUSTMENT RINGS NEXT TO ASPHALT OVERLAY

SECTION B–B



SECTION B–B

APRON REINFORCEMENT DETAIL

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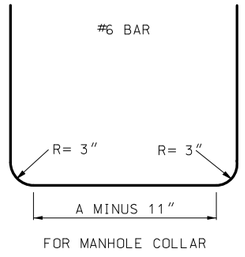
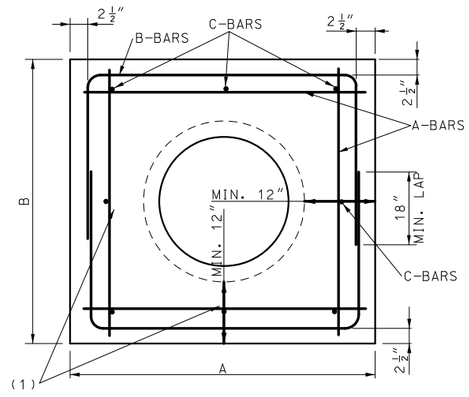


FOR MANHOLE COLLAR

BENDING DIAGRAM FOR B–BARS

(1) PROVIDE MIN. 4.75″ CLEARANCE BETWEEN REINFORCING & MANHOLE FRAME & COVER OR CIRCULAR PRECAST MANHOLE.

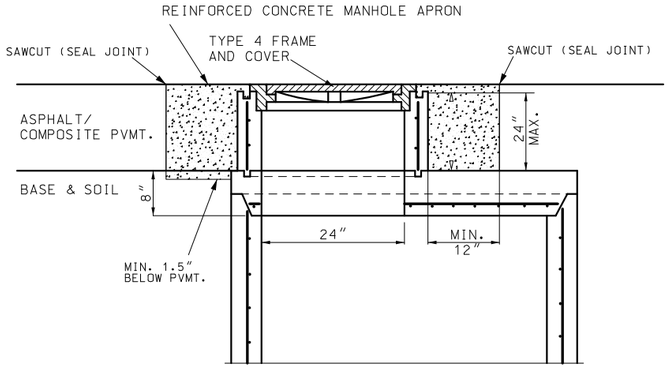


TOP VIEW OF MANHOLE APRON WITH REINFORCEMENT

NOTE: INSTALL 'C' BARS VERTICALLY INTO MANHOLE APRON CONCRETE. PROVIDE MIN. 1.5″ CLEARANCE FROM TOP OF PAVEMENT & BOTTOM OF APRON. 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 APRON.

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 APRON SHALL BE MADE PER EACH AND SHALL INCLUDE ALL NECESSARY REINFORCEMENT AND SAW CUTS OF EXISTING OR PROPOSED PAVEMENT.
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 APRON AFTER CONSTRUCTION. THE MIN. WIDTH SHALL BE 12″ BUT MAY VARY. THE CONTRACTOR SHALL NOT DO A CIRCULAR SAWCUT AROUND THE REINFORCED CONCRETE MANHOLE APRON.
7. CONCRETE USED FOR MANHOLE APRON 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 APRON 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

STATE OF MISSOURI
JAMIE F. RANA
NUMBER PE-2005001034
PROFESSIONAL ENGINEER
Jamie F. Rana
01/27/2024 2:09:38 PM
JAMIE F. RANA - CIVIL
MO-PE-2005001034

DATE PREPARED: 1/24/2024

ROUTE	STATE
N	MO
DISTRICT	SHEET NO.
SL	92

COUNTY: ST. LOUIS

JOB NO.: J63599

CONTRACT ID.:

PROJECT NO.:

BRIDGE NO.:

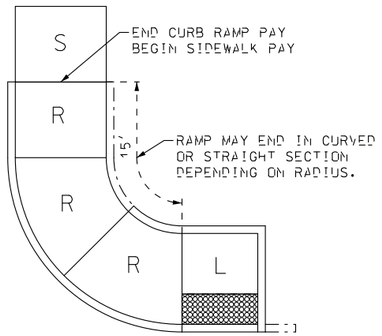
DESCRIPTION | DATE

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

MANHOLE APRON FOR ASPHALT PAVING

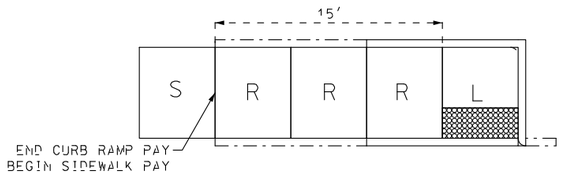
IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

PEDESTRIAN CURB RAMP PAY LIMITS

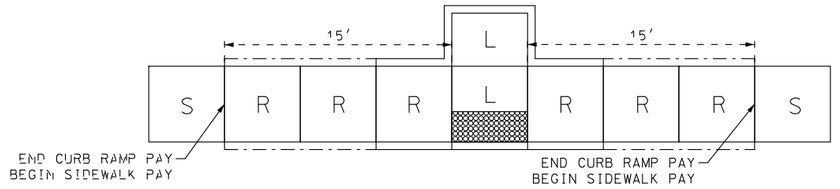


TYPE 1 PARALLEL

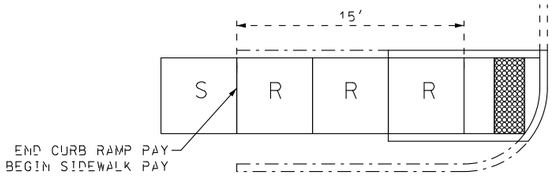
THE LENTH OF THIS RAMP SHALL BE MEASURED
ON THE INSIDE/SHORT SIDE OF THE CURVE



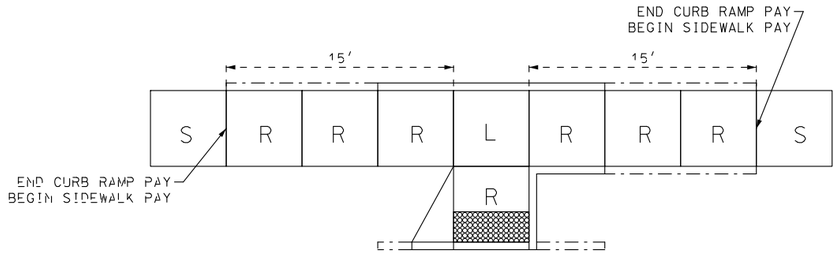
TYPE 2 PARALLEL



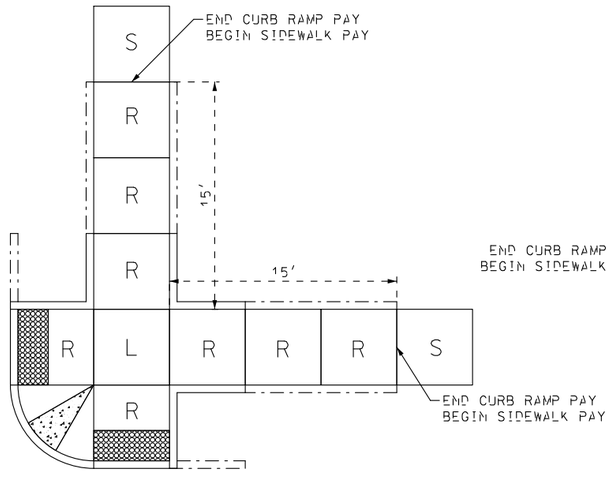
TYPE 3 PARALLEL



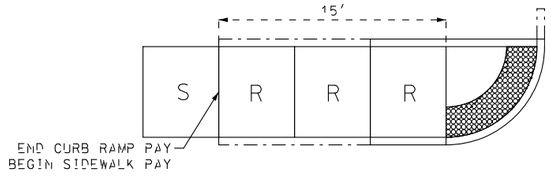
SMALL RADIUS PERPENDICULAR



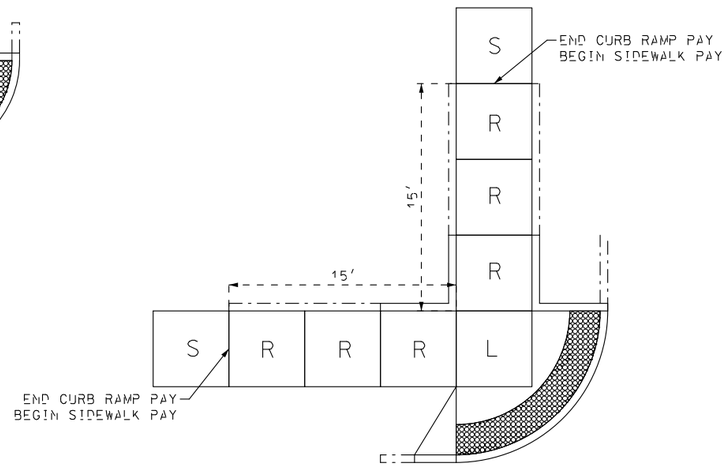
COMPOUND PERPENDICULAR



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.

DISCLAIMER
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STATE OF MISSOURI
JAMIE F. RANA
NUMBER PE-2005001034
PROFESSIONAL ENGINEER
Jamie F. Rana
01/29/2024 9:04:45 AM
JAMIE F. RANA - CIVIL
MO-PE-2005001034

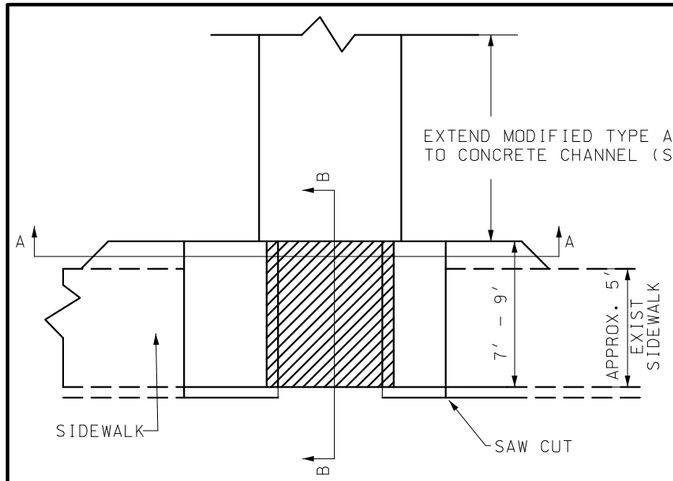
DATE PREPARED: 1/29/2024
ROUTE: N | STATE: MO
DISTRICT: SL | SHEET NO.: 93
COUNTY: ST. LOUIS
JOB NO.: J6S3599
CONTRACT ID.:
PROJECT NO.:
BRIDGE NO.:

DESCRIPTION | DATE

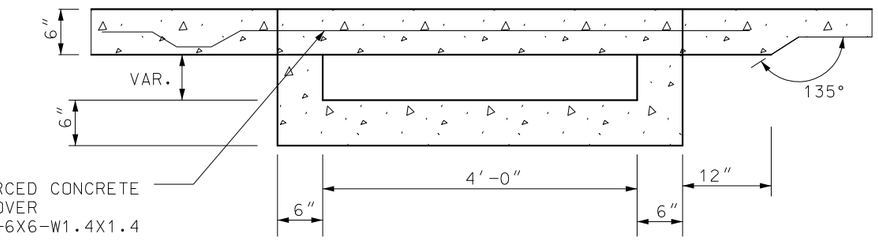
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

SPECIAL SHEET
PEDESTRIAN CURB
RAMP PAY LIMITS

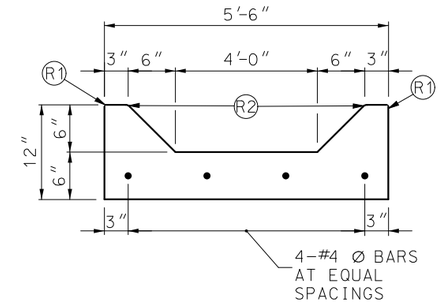
IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.



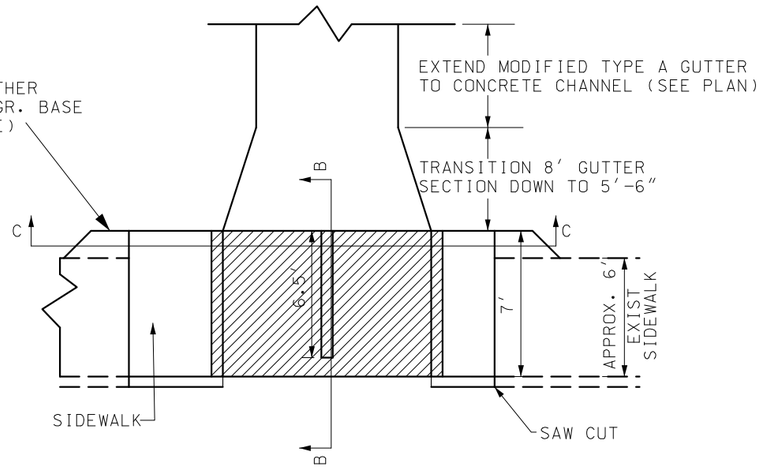
PLAN
(SIDEWALK AT BACK OF CURB)



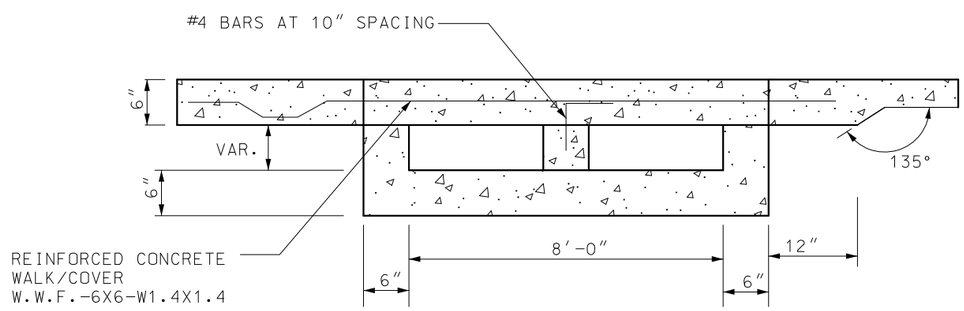
SECTION A-A



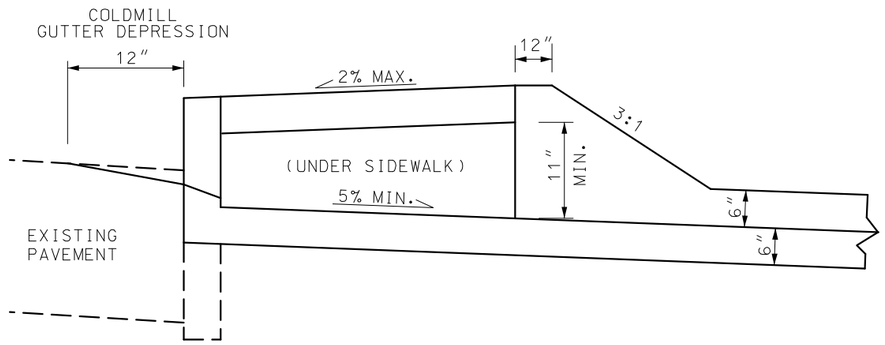
MODIFIED TYPE A GUTTER



PLAN
(SIDEWALK AT BACK OF CURB)



SECTION C-C



SECTION B-B

LEGEND

(R1) ROUND TO $\frac{1}{4}$″ RADIUS. (EXCEPT FOR SAWED JOINTS)
(R2) ROUND TO $\frac{3}{4}$″ RADIUS.
(R3) CONSTRUCT TO 9″ RADIUS

DISCLAIMER

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NOT TO SCALE

MSD PERMIT# 23MSD-00482

STATE OF MISSOURI
JAMIE F. RANA
NUMBER PE-2005001034
PROFESSIONAL ENGINEER
Jamie F. Rana
01/27/2024 2:10:58 PM
JAMIE F. RANA - CIVIL
MO-PE-2005001034

DATE PREPARED
1/24/2024

ROUTE	STATE
N	MO
DISTRICT	SHEET NO.
SL	94

COUNTY
ST. LOUIS

JOB NO.
J6S3599

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)

SPECIAL SHEET
WALK/COVER AND
GUTTER

DISCLAIMER

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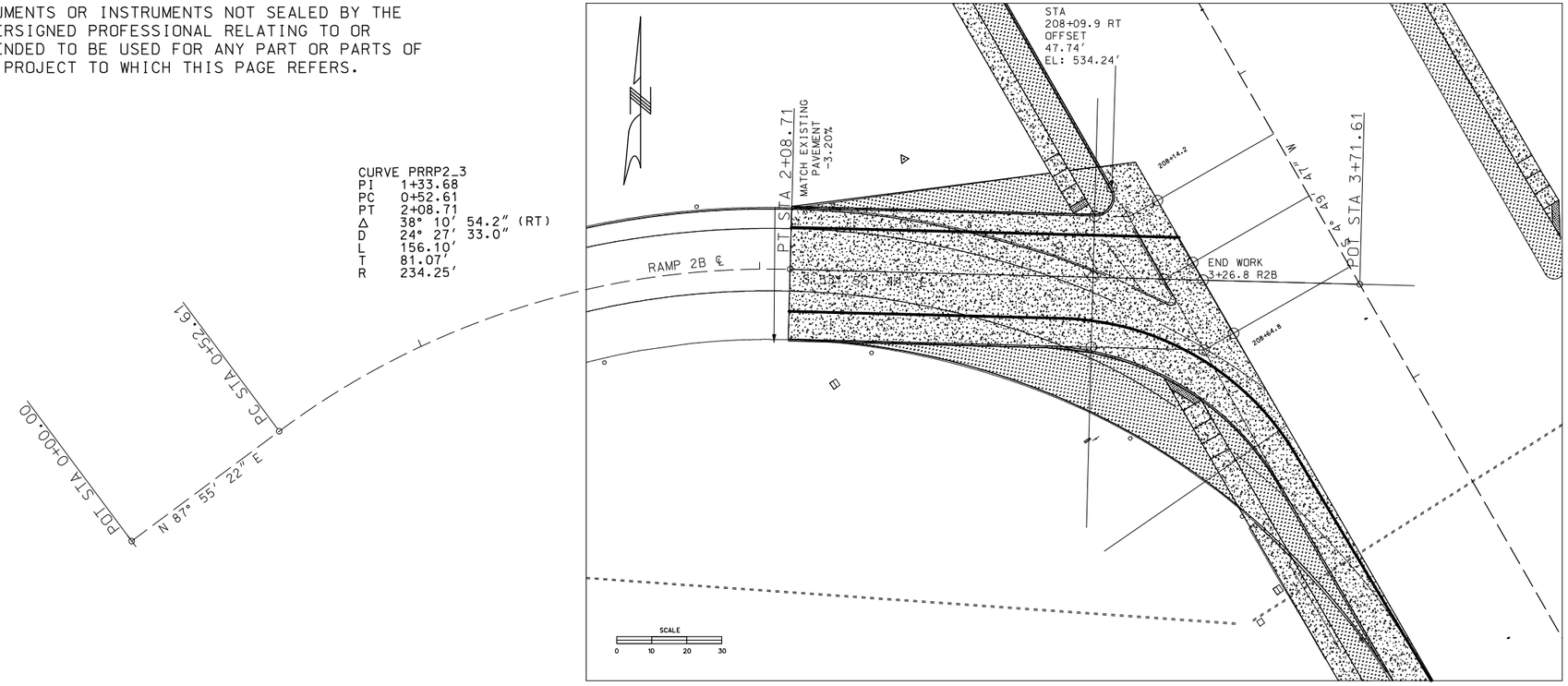
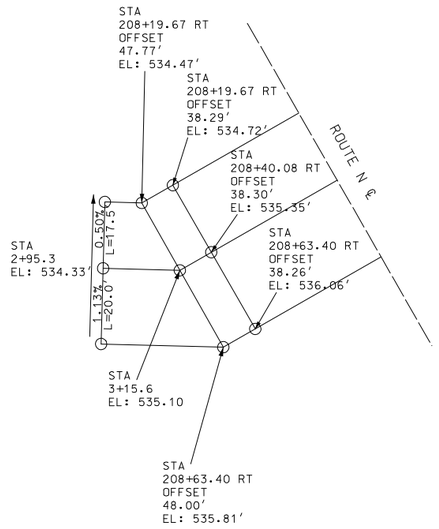
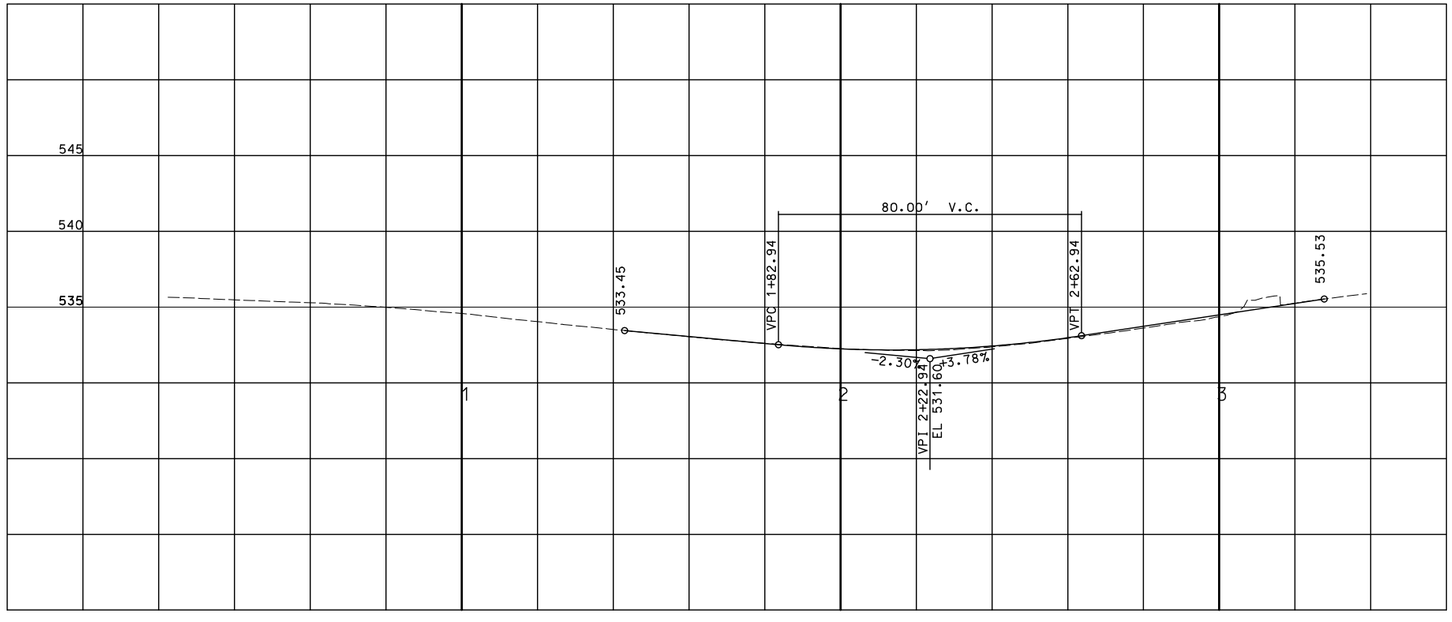
WARPING DETAIL – RAMP 2B

CURVE PRRP2_3
PI 1+33.68
PC 0+52.61
PT 2+08.71
Δ 38° 10′ 54.2″ (RT)
D 24° 27′ 33.0″
L 156.10′
T 81.07′
R 234.25′





PROPOSED PROFILE – RAMP 2B



SCALE
0 20 40 60

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

STATE OF MISSOURI
JAMIE F. RANA
NUMBER PE-2005001034
PROFESSIONAL ENGINEER
Jamie F. Rana
01/27/2024 2:11:32 PM
JAMIE F. RANA - CIVIL
MO-PE-2005001034

DATE PREPARED
1/24/2024

ROUTE	STATE
N	MO
DISTRICT	SHEET NO.
SL	95

COUNTY
ST. LOUIS

JOB NO.
J6S3599

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION	DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

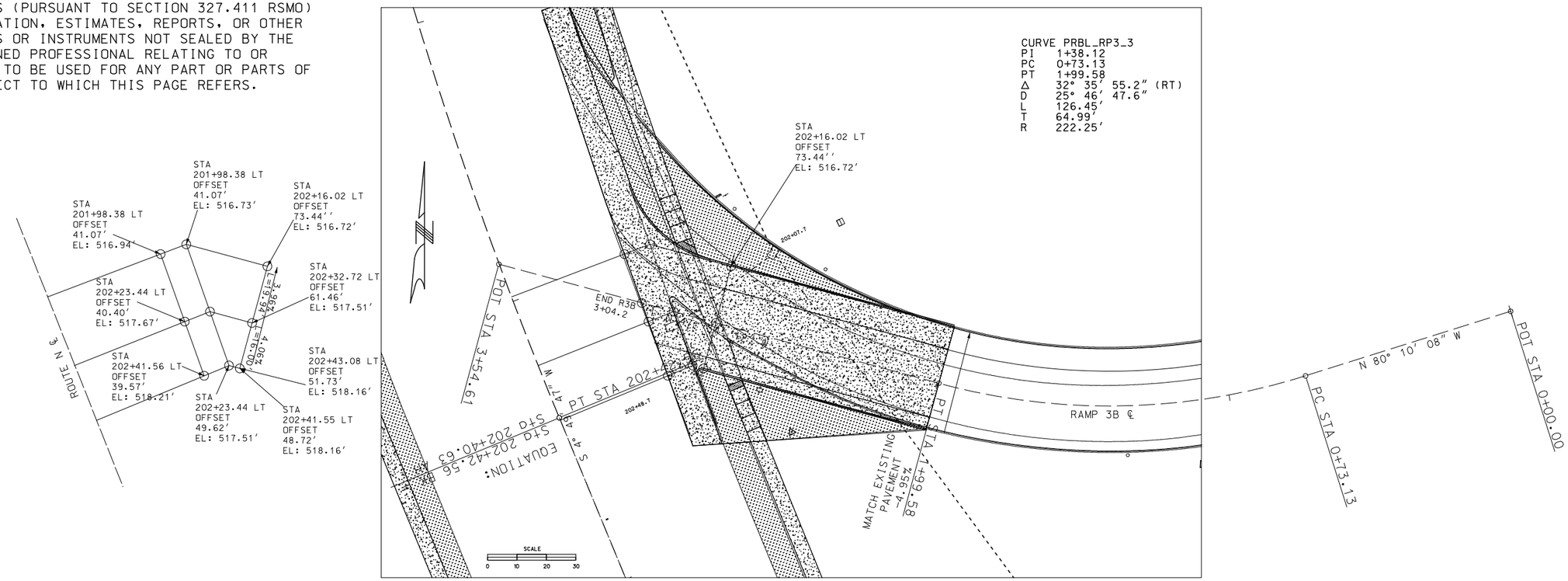
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

SPECIAL SHEET
RAMP 2B
I-70 EB-OFF RAMP
WARPING INFORMATION

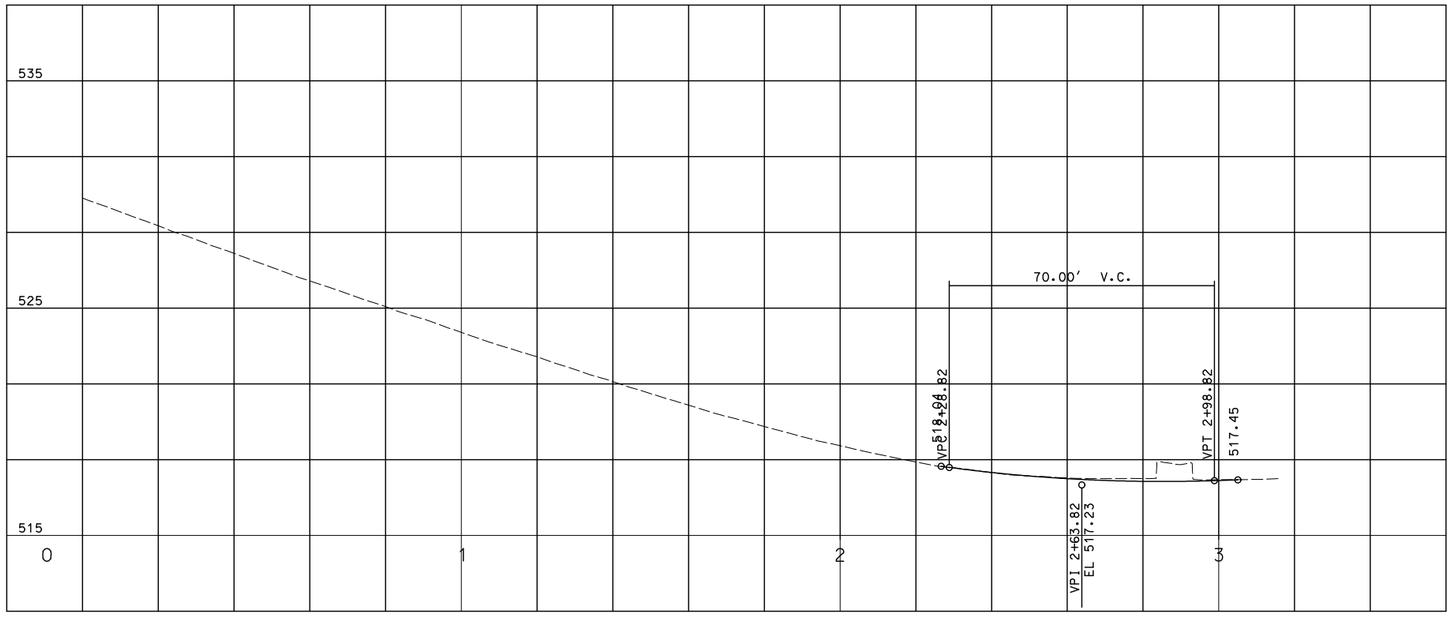
DISCLAIMER

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.

WARPING DETAIL – RAMP 3B



PROPOSED PROFILE – RAMP 3B



SCALE
0 20 40 60

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

STATE OF MISSOURI
JAMIE F. RANA
NUMBER PE-2005001034
PROFESSIONAL ENGINEER
Jamie F. Rana
01/27/2024 2:12:05 PM
JAMIE F. RANA - CIVIL
MO-PE-2005001034

DATE PREPARED
1/24/2024

ROUTE	STATE
N	MO
DISTRICT	SHEET NO.
SL	96

COUNTY
ST. LOUIS

JOB NO.
J6S3599

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)

RAMP 3B
WB I-70 OFF-RAMP
WARPING
INFORMATION

DISCLAIMER

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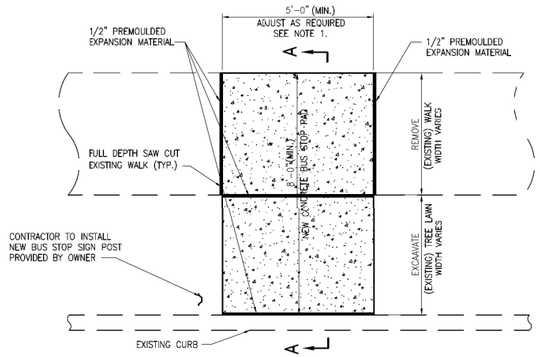
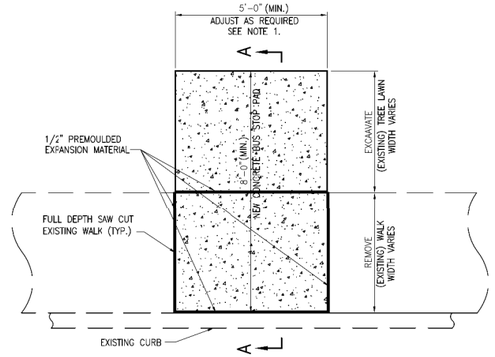


TYPE 1 IMPROVEMENT

NONE

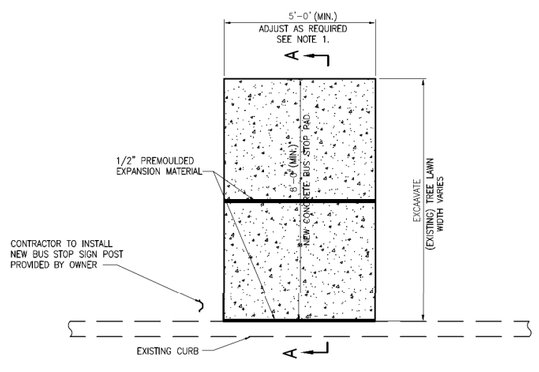


TYPE 2 IMPROVEMENT

NONE

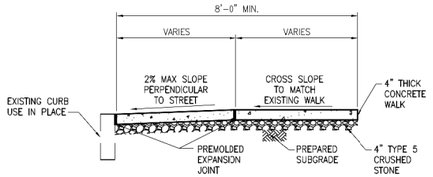
GENERAL NOTES:

1. ALL FULL DEPTH SAW CUTS TO BE MADE AT EXISTING JOINTS.



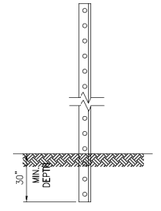
TYPE 3 & 4 IMPROVEMENT

NONE



SECTION A–A

NONE



SIGN POST DETAIL

NONE

REV	DATE	BY	APP.	DESCRIPTION

DESIGNED:	JKB
DRAWN:	RKR
CHECKED:	JKB
APPROVED:	JKB

THIS DRAWING HAS BEEN INTERNALLY REVIEWED AND APPROVED BY METRO

DATE: 05-15-08

DISCLAIMER OF RESPONSIBILITY

I hereby specify that the documents intended to be authenticated by my seal are limited to this sheet, and I hereby disclaim any responsibility for all other Drawings, Specifications, Estimates, Reports or other documents or instruments relating to or intended to be used for any part of the architectural or engineering project or survey.

Metro
I'm On Board with Metro
707 North First Street
St. Louis, Missouri 63102-2595
ph: 314.982.1400
www.metrostlouis.org

PHASE 1 BUS STOP ADA ENHANCED PROJECT

IFB
05-15-08

CONTRACT NO.
08-SB-5385-DCD

DRAWING NO.
MB-C-01

SHEET NO.
01

STATE OF MISSOURI
JAMIE F. RANA
NUMBER PE-2005001034
PROFESSIONAL ENGINEER

Jamie F. Rana
01/27/2024 2:12:42 PM
JAMIE F. RANA - CIVIL
MO-PE-2005001034

DATE PREPARED
1/24/2024

ROUTE	STATE
N	MO
DISTRICT	SHEET NO.
SL	97

COUNTY
ST. LOUIS

JOB NO.
J6S3599

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)

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

SPECIAL SHEETS
METRO BUS PAD

REV.

DISCLAIMER

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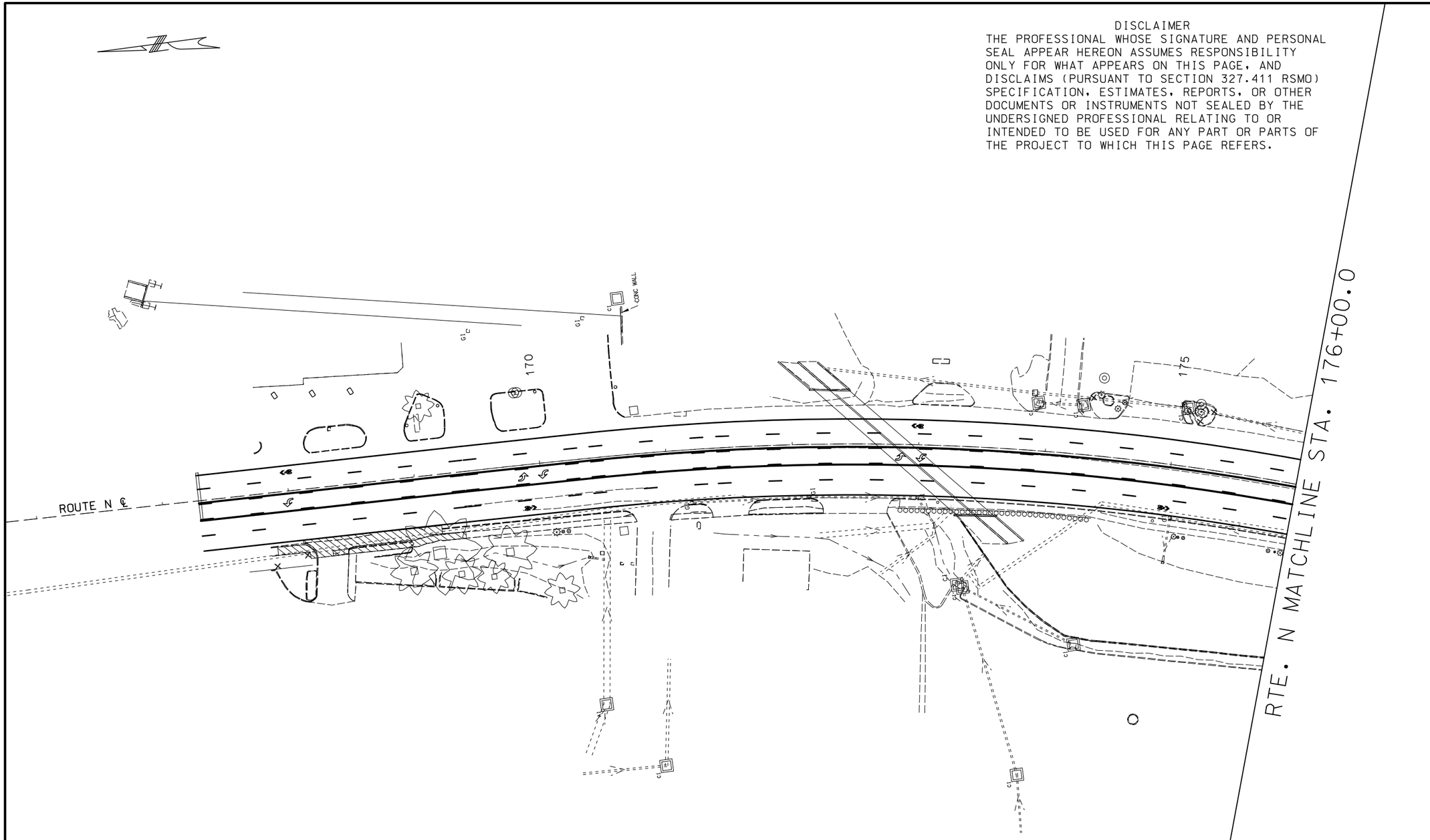

STATE OF MISSOURI
JAMIE F. RANA
NUMBER PE-2005001034
PROFESSIONAL ENGINEER

Jamie F. Rana
01/27/2024 2:13:21 PM
JAMIE F. RANA - CIVIL
MO-PE-2005001034

DATE PREPARED
1/24/2024

ROUTE	STATE
N	MO
DISTRICT	SHEET NO.
SL	98

COUNTY
ST. LOUIS

JOB NO.
J6S3599

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)

SPECIAL SHEET
REMOVALS

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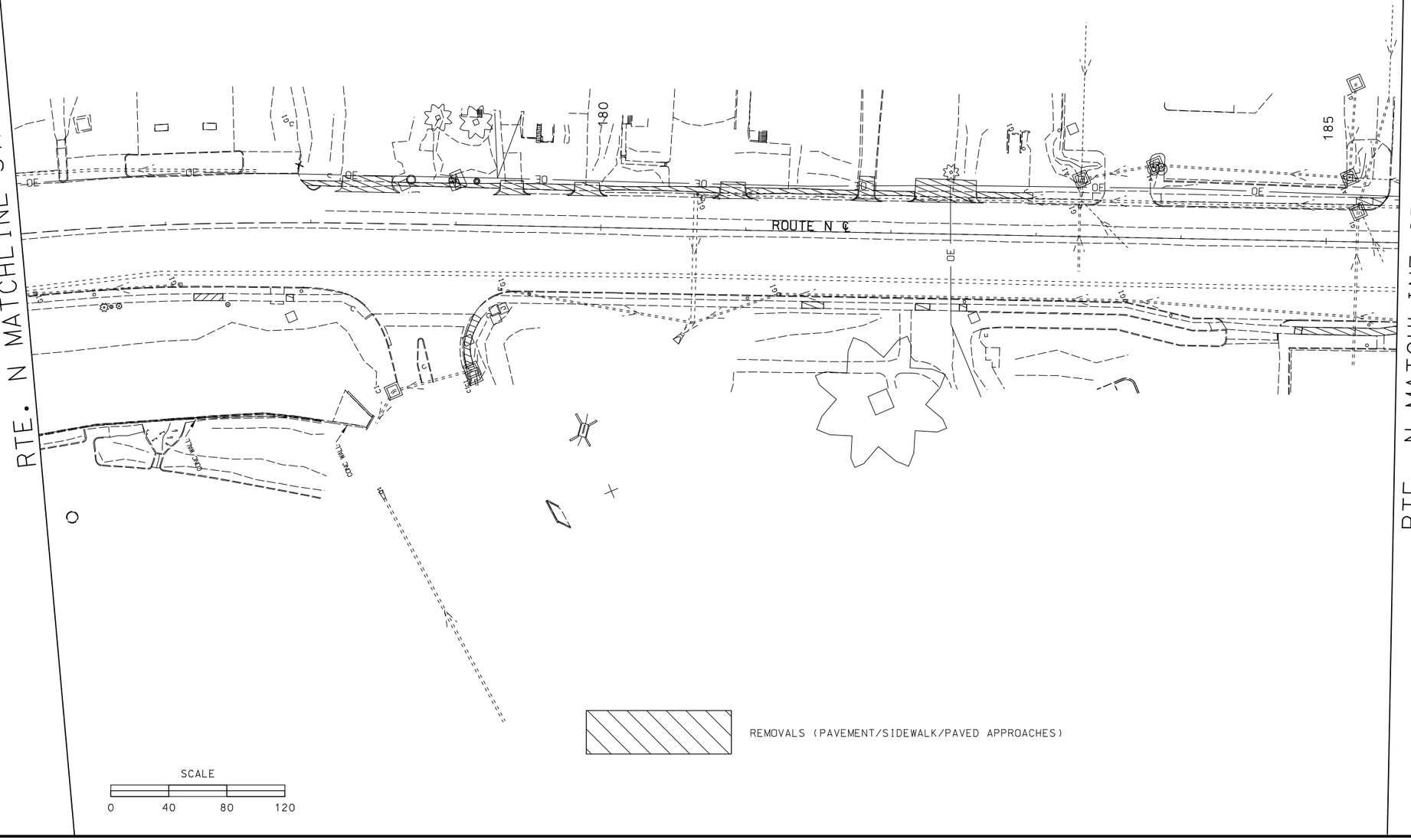

STATE OF MISSOURI
JAMIE F. RANA
NUMBER PE-2005001034
PROFESSIONAL ENGINEER
Jamie F. Rana
01/27/2024 2:14:09 PM
JAMIE F. RANA - CIVIL
MO-PE-2005001034

DATE PREPARED
1/24/2024

ROUTE	STATE
N	MO
DISTRICT	SHEET NO.
SL	99

COUNTY
ST. LOUIS

JOB NO.
J6S3599

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)

SPECIAL SHEET
REMOVALS

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RTE. N MATCHLINE STA. 185+50.0

RTE. N MATCHLINE STA. 195+50.0

ROUTE N ℄

REMOVALS (PAVEMENT/SIDEWALK/PAVED APPROACHES)

SCALE
0 40 80 120

STATE OF MISSOURI
JAMIE F. RANA
NUMBER PE-2005001034
PROFESSIONAL ENGINEER
Jamie F. Rana
01/27/2024 2:14:30 PM
JAMIE F. RANA - CIVIL
MO-PE-2005001034

DATE PREPARED
1/24/2024

ROUTE	STATE
N	MO
DISTRICT	SHEET NO.
SL	100

COUNTY
ST. LOUIS

JOB NO.
J6S3599

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)

SPECIAL SHEET
REMOVALS

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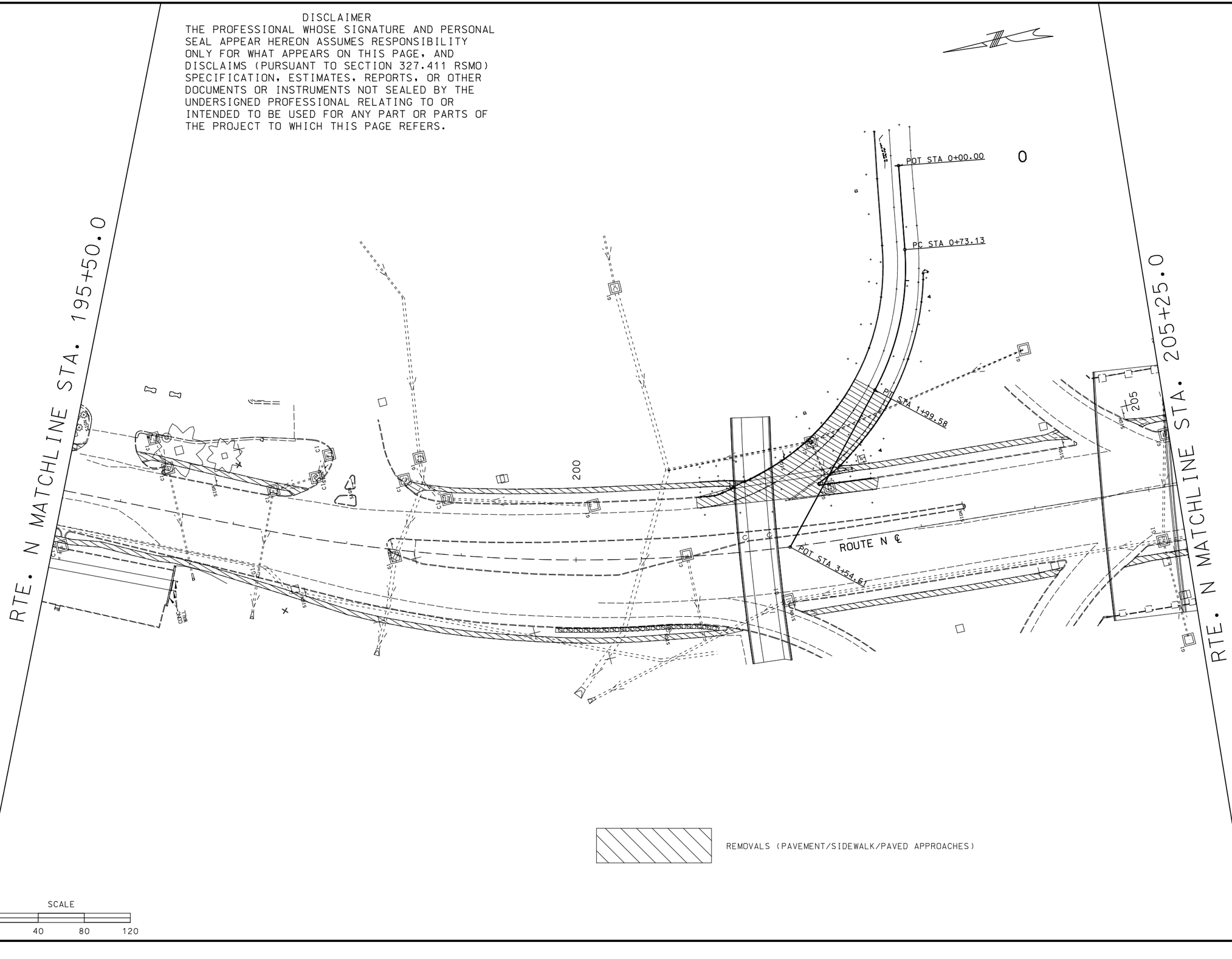


STATE OF MISSOURI
JAMIE F. RANA
NUMBER PE-2005001034
PROFESSIONAL ENGINEER

Jami F. Rana
01/27/2024 2:15:10 PM
JAMIE F. RANA - CIVIL
MO-PE-2005001034

DATE PREPARED
1/24/2024

ROUTE	STATE
N	MO
DISTRICT	SHEET NO.
SL	101

COUNTY
ST. LOUIS

JOB NO.
J6S3599

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

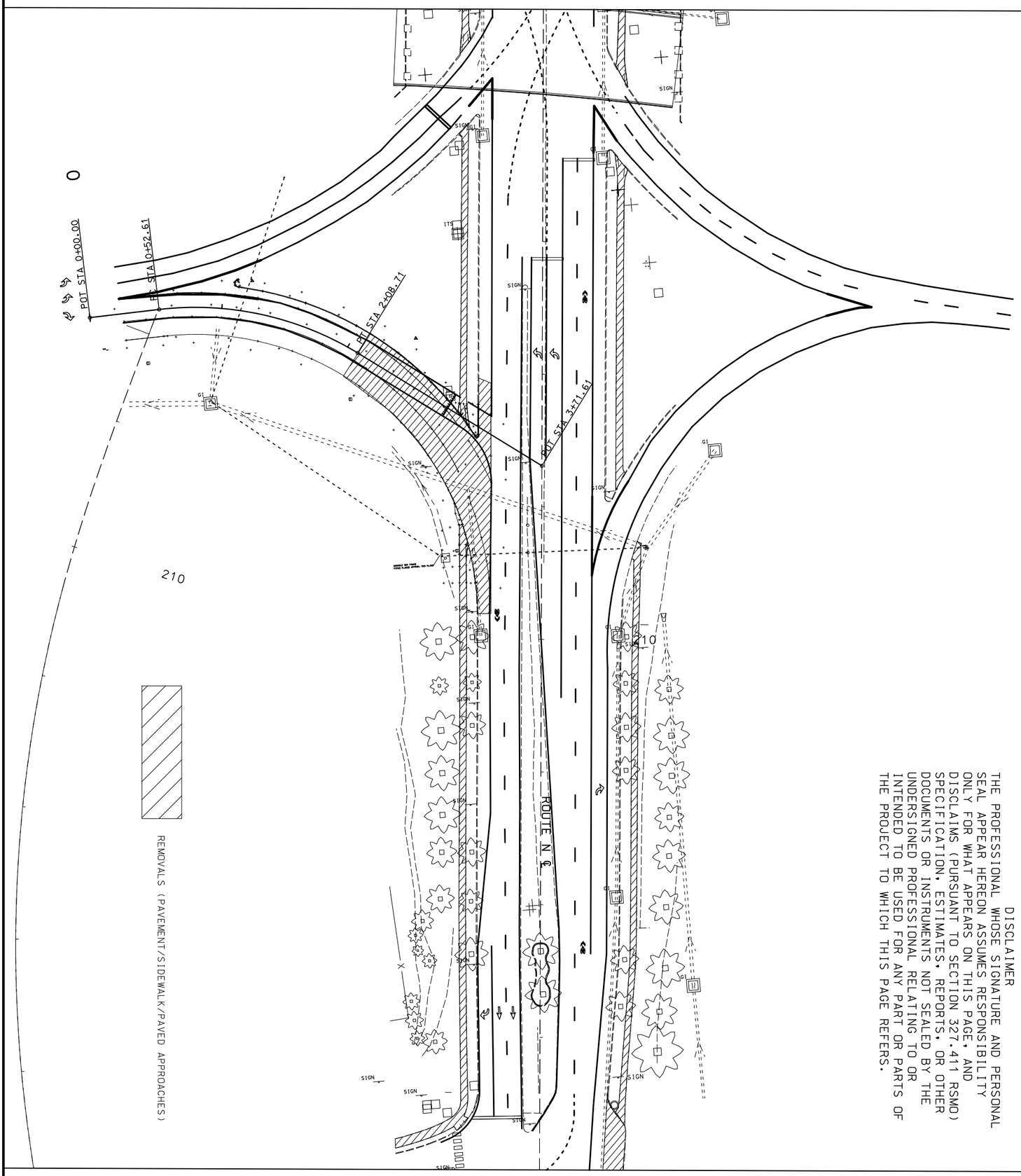
IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

DESCRIPTION	DATE

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

SPECIAL SHEET
REMOVALS

RTE. N MATCHLINE STA. 205+25.0



RTE. N MATCHLINE STA. 214+00.0

SCALE
0 40 80 120

DISCLAIMER
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SPECIAL SHEET
REMOVALS

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

DATE	DESCRIPTION

BRIDGE NO.
PROJECT NO.
CONTRACT ID.
JOB NO. J6S3599
COUNTY ST. LOUIS
DISTRICT SL
SHEET NO. 102
ROUTE N
STATE MO
DATE PREPARED 1/24/2024

STATE OF MISSOURI
JAMES T. RAMEY
NUMBER PE-2009001084
DESIGNED BY: MDOT/PE/DESIGN
CHECKED BY: MDOT/PE/DESIGN
MDOT/PE/2009001084
PROFESSIONAL ENGINEER

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

DISCLAIMER

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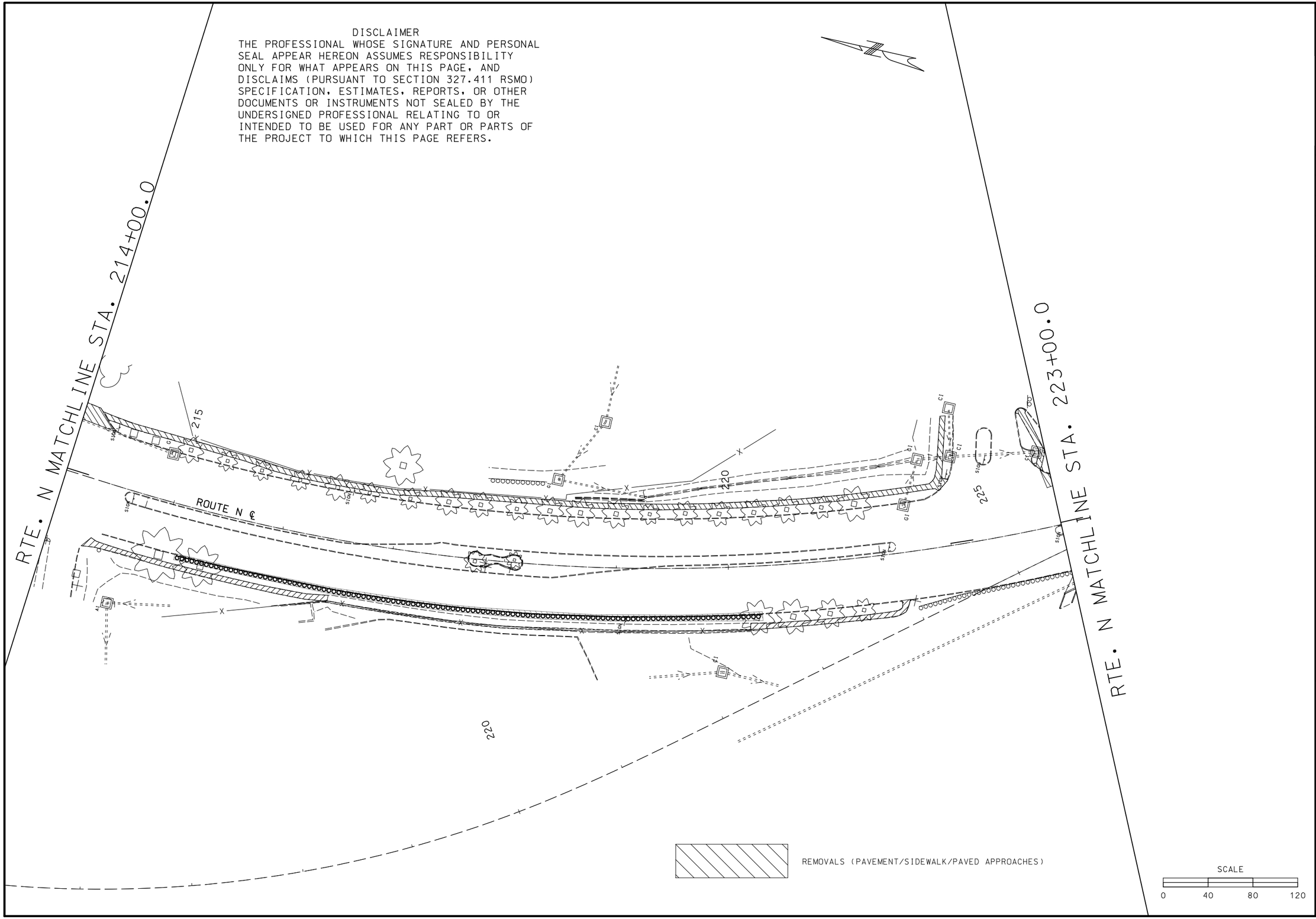


STATE OF MISSOURI
JAMIE F. RANA
NUMBER PE-2005001034
PROFESSIONAL ENGINEER

Jamie F. Rana
01/27/2024 2:15:57 PM
JAMIE F. RANA - CIVIL
MO-PE-2005001034

DATE PREPARED
1/24/2024

ROUTE	STATE
N	MO
DISTRICT	SHEET NO.
SL	103

COUNTY
ST. LOUIS

JOB NO.
J6S3599

CONTRACT ID.

PROJECT NO.

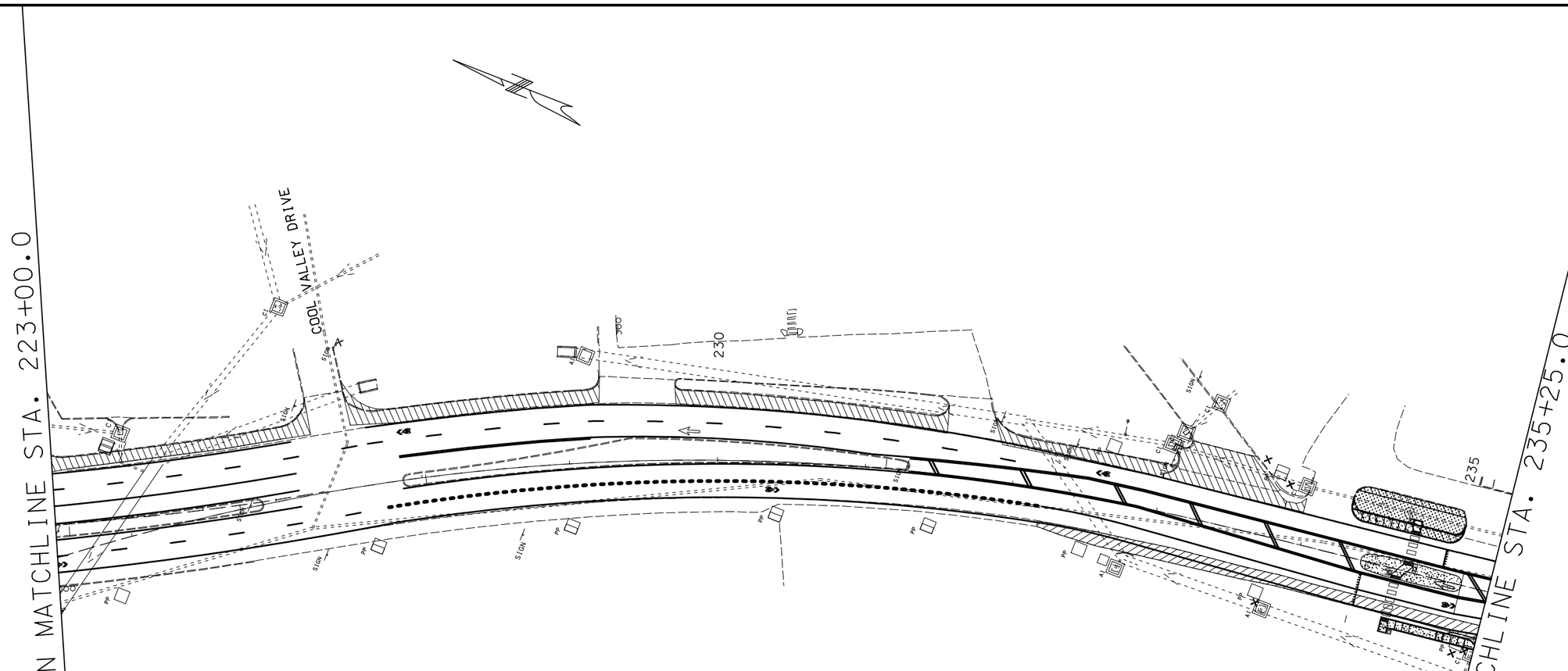
BRIDGE NO.

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)

SPECIAL SHEET
REMOVALS



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SCALE
0 40 80 120

STATE OF MISSOURI
JAMIE F. RANA
NUMBER PE-2005001034
PROFESSIONAL ENGINEER

Jamie F. Rana
01/27/2024 2:16:19 PM
JAMIE F. RANA - CIVIL
MO-PE-2005001034

DATE PREPARED
1/24/2024

ROUTE	STATE
N	MO
DISTRICT	SHEET NO.
SL	104

COUNTY
ST. LOUIS

JOB NO.
J6S3599

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)

SPECIAL SHEET REMOVALS

DISCLAIMER

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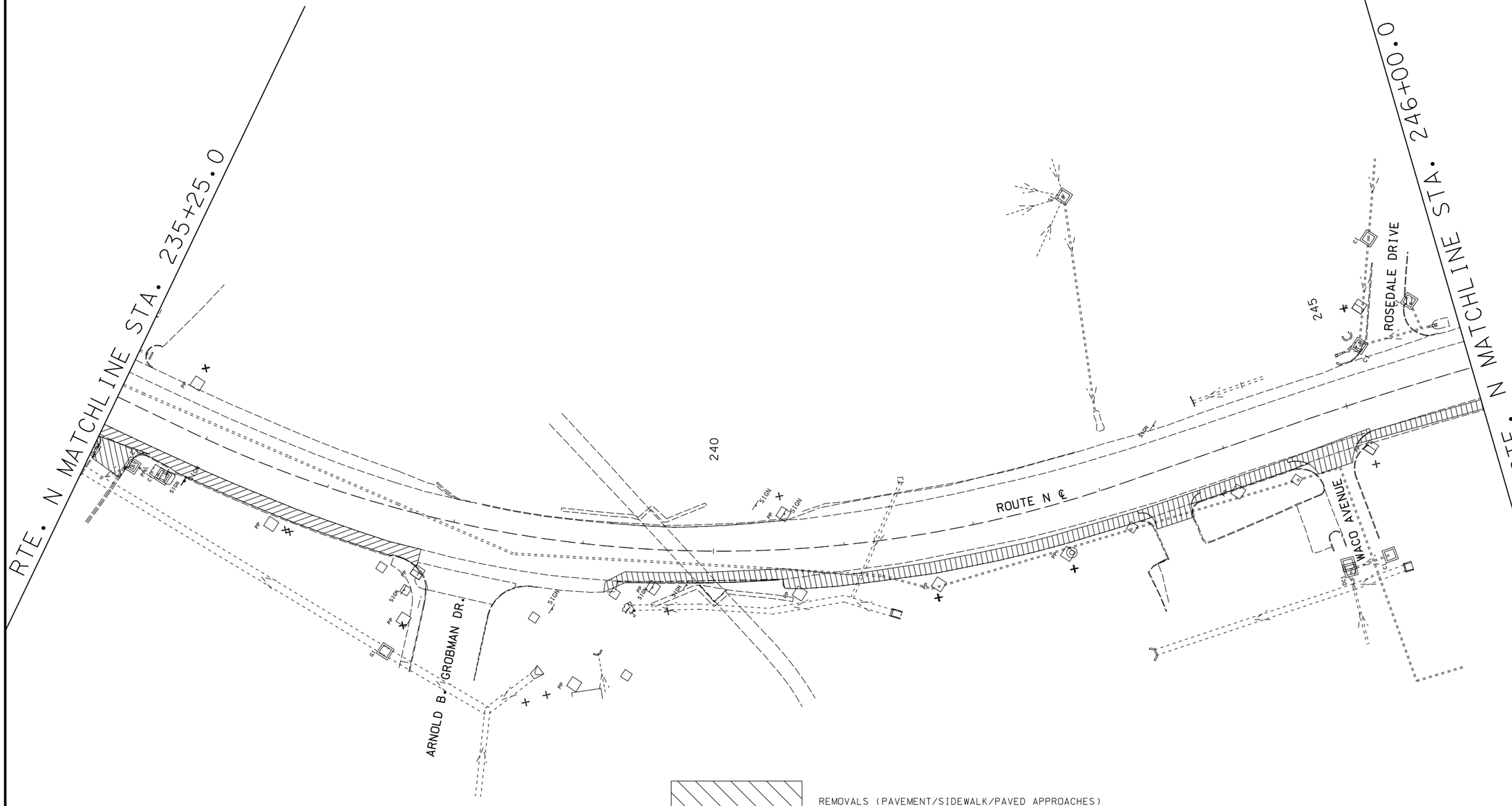

STATE OF MISSOURI
JAMIE F. RANA
NUMBER PE-2005001034
PROFESSIONAL ENGINEER

Jamie F. Rana
01/27/2024 2:16:40 PM
JAMIE F. RANA - CIVIL
MO-PE-2005001034

DATE PREPARED
1/24/2024

ROUTE	STATE
N	MO
DISTRICT	SHEET NO.
SL	105

COUNTY
ST. LOUIS

JOB NO.
J6S3599

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)

SPECIAL SHEET
REMOVALS

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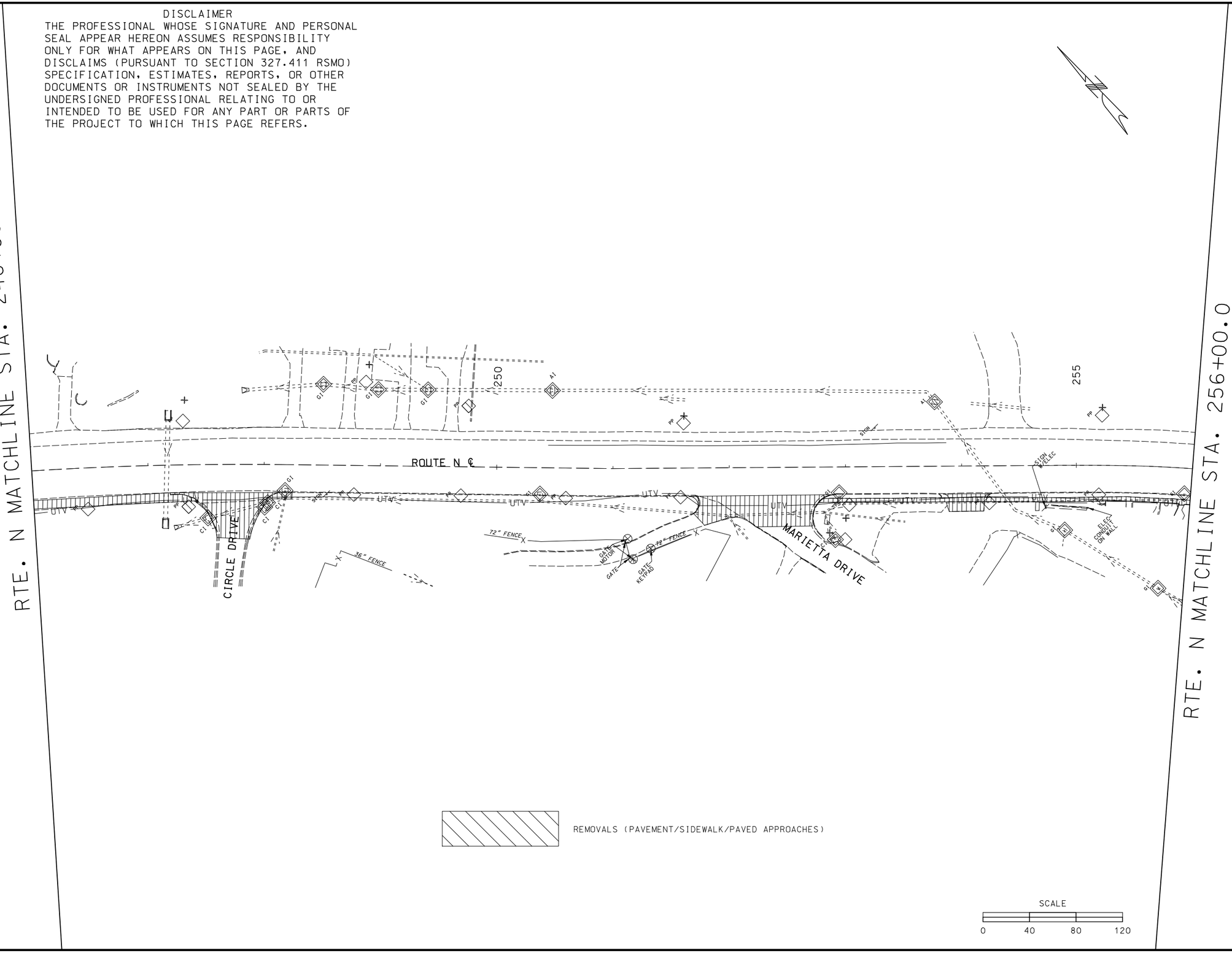

STATE OF MISSOURI
JAMIE F. RANA
NUMBER PE-2005001034
PROFESSIONAL ENGINEER
Jamie F. Rana
01/27/2024 2:17:02 PM
JAMIE F. RANA - CIVIL
MO-PE-2005001034

DATE PREPARED
1/24/2024

ROUTE	STATE
N	MO
DISTRICT	SHEET NO.
SL	106

COUNTY
ST. LOUIS

JOB NO.
J6S3599

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)

SPECIAL SHEET
REMOVALS

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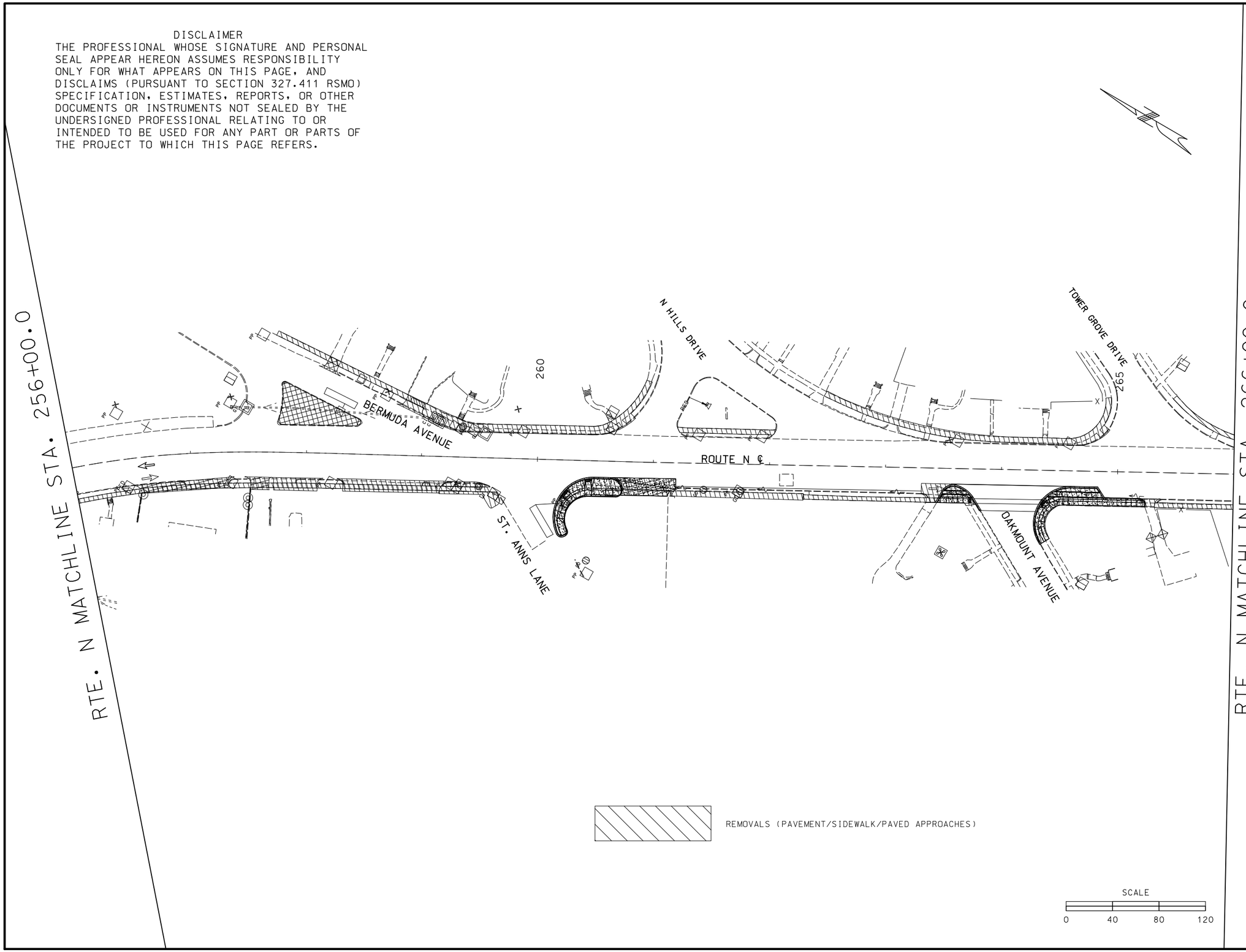

STATE OF MISSOURI
JAMIE F. RANA
NUMBER PE-2005001034
PROFESSIONAL ENGINEER

Jamie F. Rana
01/27/2024 2:18:31 PM
JAMIE F. RANA - CIVIL
MO-PE-2005001034

DATE PREPARED
1/24/2024

ROUTE	STATE
N	MO
DISTRICT	SHEET NO.
SL	107

COUNTY
ST. LOUIS

JOB NO.
J6S3599

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)

SPECIAL SHEET REMOVALS

DISCLAIMER
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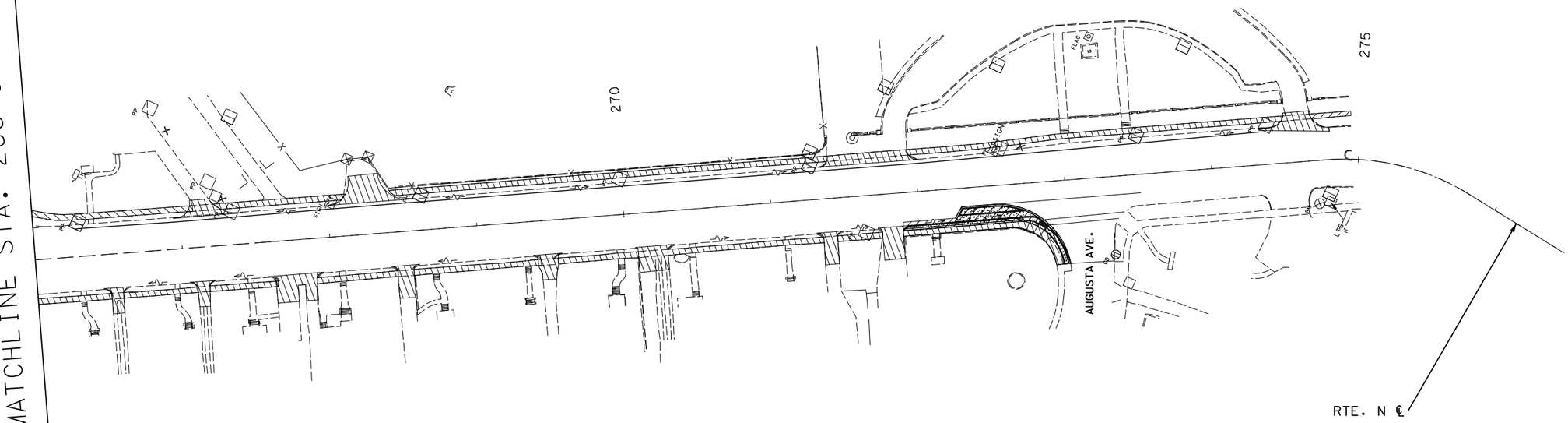

REMOVALS (PAVEMENT/SIDEWALK/PAVED APPROACHES)

SCALE
0 40 80 120

STATE OF MISSOURI
JAMIE F. RANA
NUMBER PE-2005001034
PROFESSIONAL ENGINEER
Jamie F. Rana
01/27/2024 2:19:01 PM
JAMIE F. RANA - CIVIL
MO-PE-2005001034

DATE PREPARED
1/24/2024

ROUTE	STATE
N	MO
DISTRICT	SHEET NO.
SL	108

COUNTY
ST. LOUIS

JOB NO.
J6S3599

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)

SPECIAL SHEET
REMOVALS

DISCLAIMER

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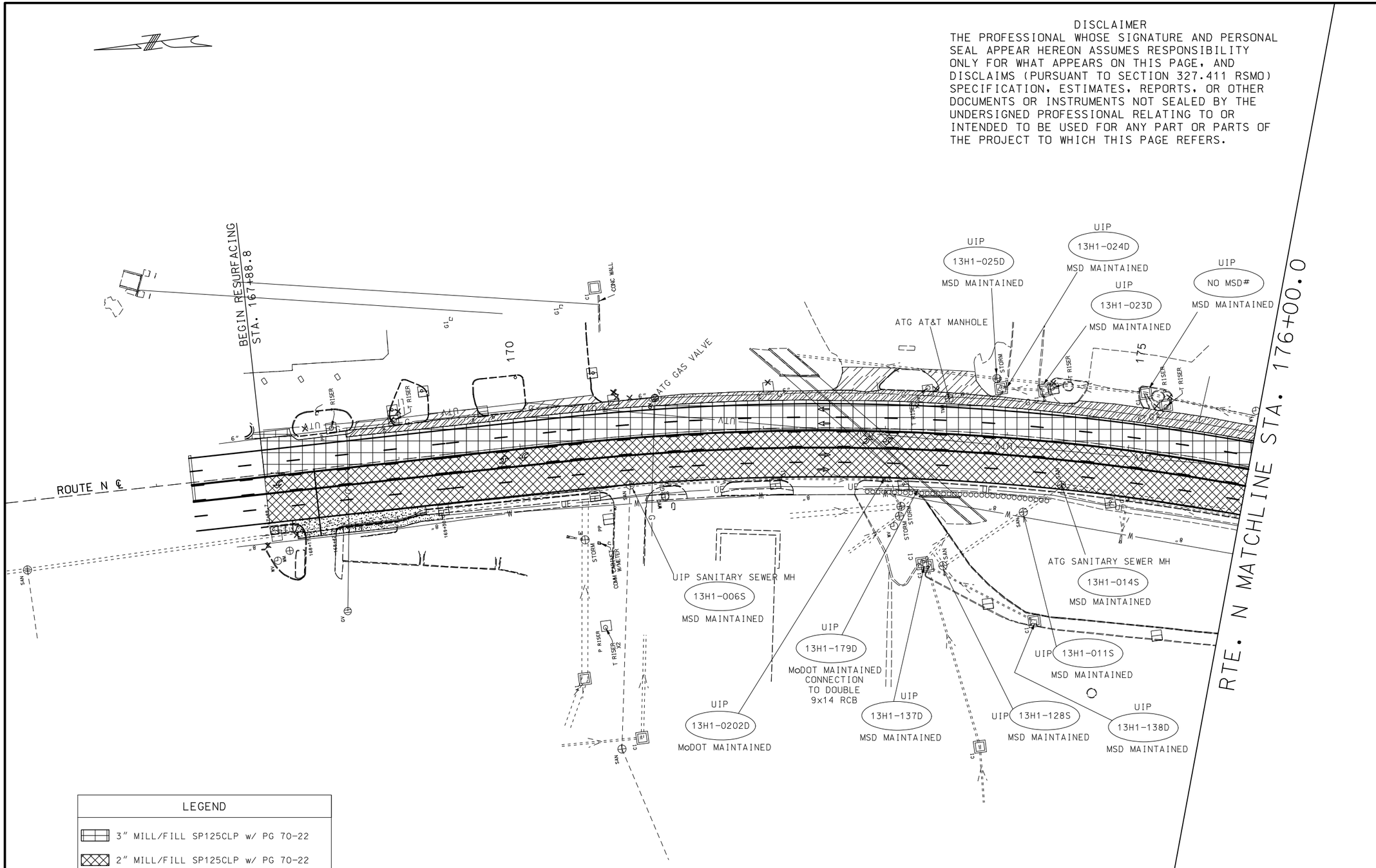

LEGEND

- 3" MILL/FILL SP125CLP w/ PG 70-22
- 2" MILL/FILL SP125CLP w/ PG 70-22
- 2" MILL/FILL BP-1 w/ PG 64-22

MSD PERMIT# 23MSD-00482

STATE OF MISSOURI
JAMIE F. RANA
NUMBER PE-2005001034
PROFESSIONAL ENGINEER

Jamie F. Rana
@01:28/2024 11:25:28 AM
JAMIE F. RANA - CIVIL
MO-PE-2005001034

DATE PREPARED
1/24/2024

ROUTE	STATE
N	MO
DISTRICT	SHEET NO.
SL	109

COUNTY
ST. LOUIS

JOB NO.
J6S3599

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)

SPECIAL SHEET
RESURFACING PLANS

DISCLAIMER

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RTE. N MATCHLINE STA. 176+00.0

RTE. N MATCHLINE STA. 185+50.0

ROUTE N ℄

UIP SANITARY SEWER MH
MSD MAINTAINED
NO MSD#

UIP SEWER MH
MSD MAINTAINED
NO MSD#

ATG AT&T MANHOLE

UIP SANITARY SEWER MH
MSD MAINTAINED
NO MSD#

ATG WATER VALVE

UIP SANITARY SEWER MH
MSD MAINTAINED
13H1-027S

MoDOT MAINTAINED
NO MSD#
ATG STORM SEWER MH

REPLACE INLET TOP
2x2 CURVED VANE GRATE
NO MSD#
MoDOT MAINTAINED

MSD MAINTAINED
13H1-187D
UIP

MSD MAINTAINED
13H1-0188D
UIP

UIP
13H1-185D
MoDOT MAINTAINED

MoDOT MAINTAINED
13H1-127D
ATG STORM SEWER MH

13H1-126D
UIP
MoDOT MAINTAINED

ATG GAS VALVE

ATG SANITARY SEWER MH
13H1-015S
MSD MAINTAINED

COOL VALLEY ELEM.

13H1-029S
ATG SANITARY SEWER MH
MSD MAINTAINED

ATG SANITARY SEWER MH
13H1-016S
MSD MAINTAINED

MoDOT MAINTAINED
NO MSD#
UIP STORM SEWER MH

ATG SANITARY SEWER MH
13H1-030S
MSD MAINTAINED

ATG AT&T MANHOLE

LEGEND

- 3" MILL/FILL SP125CLP w/ PG 70-22
- 2" MILL/FILL SP125CLP w/ PG 70-22
- 2" MILL/FILL BP-1 w/ PG 64-22

SCALE
0 40 80 120

MSD PERMIT# 23MSD-00482

STATE OF MISSOURI
JAMIE F. RANA
NUMBER PE-2005001034
PROFESSIONAL ENGINEER
Jamie F. Rana
01:28/2024 11:26:05 AM
JAMIE F. RANA - CIVIL
MO-PE-2005001034

DATE PREPARED
1/24/2024

ROUTE	STATE
N	MO
DISTRICT	SHEET NO.
SL	110

COUNTY
ST. LOUIS

JOB NO.
J6S3599

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)

SPECIAL SHEET
RESURFACING PLAN

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MSD PERMIT# 23MSD-00482

RTE. N MATCHLINE STA. 185+50.0

RTE. N MATCHLINE STA. 195+50.0

BERNHARDT AVE.

ATG AT&T MANHOLE

MoDOT MAINTAINED ATG STORM SEWER MH NO MSD#

UIP SANITARY SEWER MH 13H1-040S MSD MAINTAINED

ATG WATER VALVE

ATG GAS VALVE

4-8ExDI 13H4-005D MSD MAINTAINED UIP STORM SEWER INLET

MoDOT MAINTAINED NEW DRAINAGE FLUME 4-27F NO MSD#

4-12ExDI 13H4-066D MoDOT MAINTAINED ATG INLET – MSD BRICK INLET

MSD MAINTAINED UIP STORM SEWER INLET 4-13ExDI 13H4-065D

MSD MAINTAINED UIP STORM SEWER INLET 4-14ExDI NO MSD#

MoDOT MAINTAINED ATG STORM SEWER MANHOLES 4-21ExMH 13H4-068D

MoDOT MAINTAINED ATG STORM SEWER MANHOLES 4-22ExMH NO MSD#

MoDOT MAINTAINED ATG STORM SEWER MH 4-20ExMH 13H4-064D

MSD MAINTAINED UIP STORM SEWER MH 4-23ExMH 13H4-063D

MSD MAINTAINED UIP STORM SEWER MH 4-18ExMH 13H4-053D

MoDOT MAINTAINED UIP STORM SEWER MH 4-19ExMH 13H4-054D

MoDOT MAINTAINED ATG STORM SEWER INLET 13H1-052D BURIED

END RESURFACING NORTH SECTION STA. 194+93.5

MoDOT MAINTAINED UIP STORM SEWER INLET M-16ExDI NO MSD#

MSD MAINTAINED UIP STORM SEWER INLET 13H1-106D

ATG SANITARY SEWER MH 13H1-024S MSD MAINTAINED

ATG SANITARY SEWER MH 13H1-023S MSD MAINTAINED

ATG SANITARY SEWER MH 13H1-126S MSD MAINTAINED

ATG SANITARY SEWER MH 13H1-025S MSD MAINTAINED

EVANS AVE.

ATG AT&T MH

MoDOT MAINTAINED UIP STORM SEWER MANHOLE NO MSD#

MoDOT MAINTAINED UIP STORM SEWER MANHOLE 4-27ExMH 13H4-002D

MoDOT MAINTAINED UIP STORM SEWER INLET NO MSD#

MoDOT MAINTAINED UIP STORM SEWER INLET 13H4-0232D

UIP SANITARY SEWER MH 13H4-032S MSD MAINTAINED

UIP SANITARY SEWER MH 13H4-033S MSD MAINTAINED

ASPHALT CONCRETE

MSD MAINTAINED UIP STORM SEWER INLET 13H4-070D

MSD MAINTAINED UIP STORM SEWER INLET 13H1-104D

MSD MAINTAINED UIP STORM SEWER INLET 13H1-105D

UIP SANITARY SEWER MH 13H1-125S MSD MAINTAINED

UIP SANITARY SEWER MH 13H1-124S MSD MAINTAINED

MSD MAINTAINED UIP STORM SEWER INLET 13H4-069D

LEGEND

- 3" MILL/FILL SP125CLP w/ PG 70-22
- 2" MILL/FILL SP125CLP w/ PG 70-22
- SEE CROWN CORRECTION SPECIAL SHEETS

SCALE
0 40 80 120

STATE OF MISSOURI
JAMIE F. RANA
NUMBER PE-2005001034
PROFESSIONAL ENGINEER
Jamie F. Rana
01/28/2024 11:27:18 AM
JAMIE F. RANA - CIVIL
MO-PE-2005001034

DATE PREPARED 1/24/2024

ROUTE	STATE
N	MO
DISTRICT	SHEET NO.
SL	111

COUNTY ST. LOUIS
JOB NO. J6S3599
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)

SPECIAL SHEET
RESURFACING PLAN

DISCLAIMER
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MSD PERMIT# 23MSD-00482

RTE. N MATCHLINE STA. 195+50.0

RTE. N MATCHLINE STA. 205+25.0

ROUTE N ℄

UIP SANITARY SEWER MH
13H4-034S
MSD MAINTAINED

UIP SANITARY SEWER MH
13H4-035S
MSD MAINTAINED

UIP STORM SEWER INLET
NO MSD#
MSD MAINTAINED

UIP STORM SEWER INLET
13H4-061D
MoDOT MAINTAINED

UIP STORM SEWER MANHOLE
13H4-026D
MSD MAINTAINED

UIP STORM SEWER INLETS
NO MSD#
MoDOT MAINTAINED

UIP STORM SEWER INLETS
13H4-028D
MoDOT MAINTAINED

UIP STORM SEWER INLETS
13H4-028D
MoDOT MAINTAINED

UIP STORM SEWER INLET
13H4-024D
MoDOT MAINTAINED

UIP STORM SEWER INLET
13H4-023D
MoDOT MAINTAINED

(R) & REPLACE INLET w/ MANHOLE
SEE DRAINAGE PLANS

UIP STORM SEWER INLET
NO MSD#
MoDOT MAINTAINED

UIP STORM SEWER INLETS
NO MSD#
MoDOT MAINTAINED

UIP SANITARY SEWER MH
13H4-126S
MSD MAINTAINED

ATG SANITARY SEWER MH
13H4-036S
MSD MAINTAINED

UIP STORM SEWER OUTLETS
NO MSD#
MoDOT MAINTAINED

UIP STORM SEWER OUTLET
13H4-054D
MoDOT MAINTAINED

UIP SANITARY SEWER MH
13H4-037S
MSD MAINTAINED

UIP STORM SEWER INLET
13H4-025D
MoDOT MAINTAINED

UIP STORM SEWER INLET
NO MSD#
MoDOT MAINTAINED

SCALE
0 40 80 120

NOTE: SHEET HAS NO RESURFACING - SHOWN FOR UTILITY ADJUSTMENTS ONLY.
PAVEMENT REPAIRS MAY BE INCLUDED FOR THE EXIST. CONC. PAVEMENT

STATE OF MISSOURI
JAMIE F. RANA
NUMBER PE-2005001034
PROFESSIONAL ENGINEER
Jamie F. Rana
01/28/2024 11:27:45 AM
JAMIE F. RANA - CIVIL
MO-PE-2005001034

DATE PREPARED
1/24/2024

ROUTE	STATE
N	MO
DISTRICT	SHEET NO.
SL	112

COUNTY
ST. LOUIS

JOB NO.
J6S3599

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)

SPECIAL SHEET
RESURFACING PLAN

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MSD PERMIT# 23MSD-00482

RTE. N MATCHLINE STA. 205+25.0

RTE. N MATCHLINE STA. 214+00.0

UIP STORM SEWER INLET
13H4-183D
MoDOT MAINTAINED

UIP STORM SEWER INLET
NO MSD#
MoDOT MAINTAINED

UIP STORM SEWER INLET
NO MSD#
MoDOT MAINTAINED

UIP STORM SEWER INLET
13H4-185D
MoDOT MAINTAINED

UIP STORM SEWER INLET
NO MSD#
MoDOT MAINTAINED

ROUTE N ℄

210

NOTE: SHEET HAS NO RESURFACING - SHOWN FOR UTILITY ADJUSTMENTS ONLY. PAVEMENT REPAIRS MAY BE INCLUDED FOR THE EXIST. CONC. PAVEMENT

SCALE
0 40 80 120

STATE OF MISSOURI
JAMIE F. RANA
NUMBER PE-2005001034
PROFESSIONAL ENGINEER
Jamie F. Rana
01/28/2024 11:28:11 AM
JAMIE F. RANA - CIVIL
MO-PE-2005001034
DATE PREPARED
1/24/2024

ROUTE	STATE
N	MO
DISTRICT	SHEET NO.
SL	113

COUNTY
ST. LOUIS

JOB NO.
J6S3599

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)

SPECIAL SHEET
RESURFACING PLAN

DISCLAIMER

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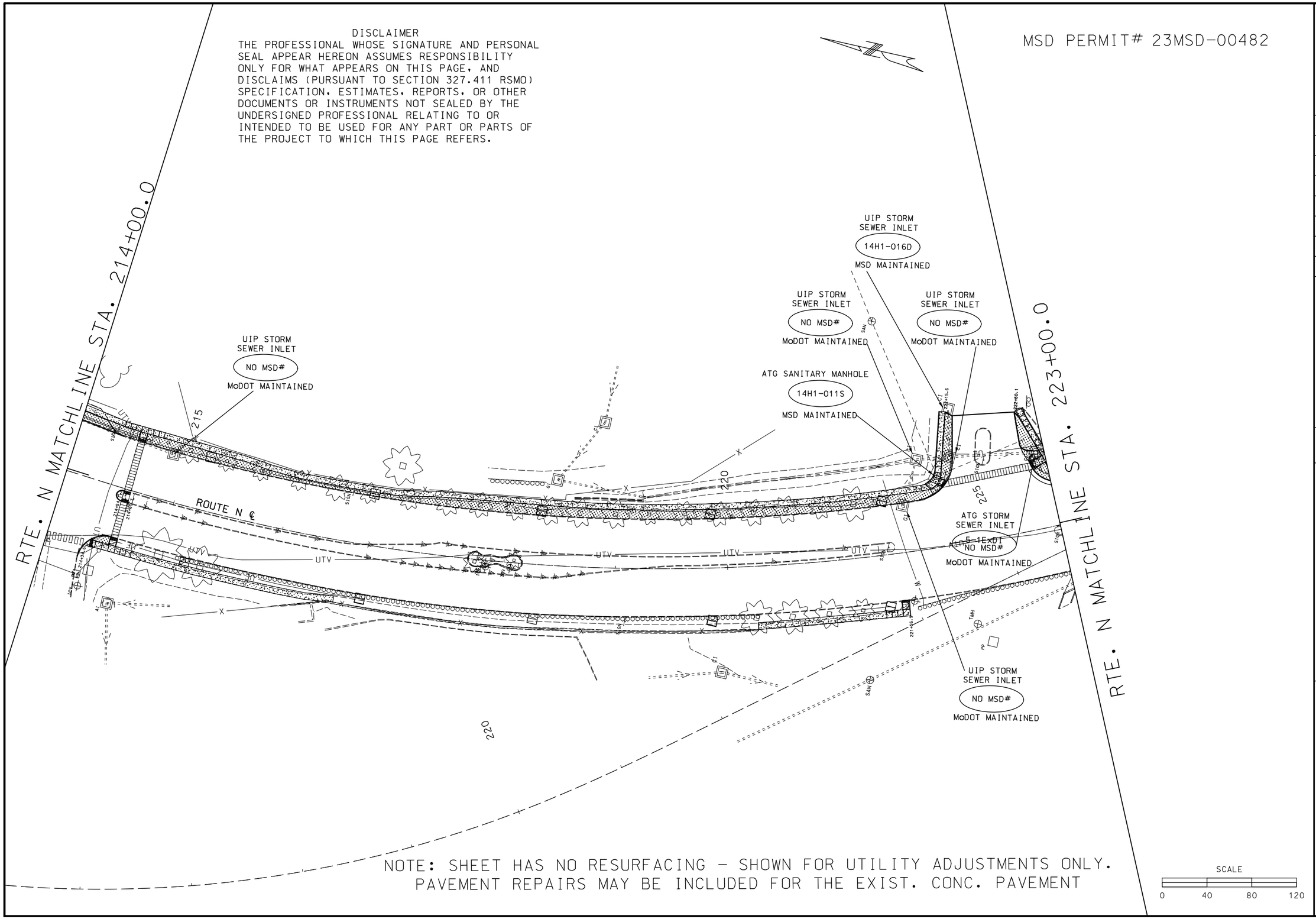

NOTE: SHEET HAS NO RESURFACING - SHOWN FOR UTILITY ADJUSTMENTS ONLY. PAVEMENT REPAIRS MAY BE INCLUDED FOR THE EXIST. CONC. PAVEMENT

SCALE
0 40 80 120

STATE OF MISSOURI
JAMIE F. RANA
NUMBER PE-2005001034
PROFESSIONAL ENGINEER

Jamie F. Rana
01/28/2024 11:28:39 AM
JAMIE F. RANA - CIVIL
MO-PE-2005001034

DATE PREPARED
1/24/2024

ROUTE	STATE
N	MO
DISTRICT	SHEET NO.
SL	114

COUNTY
ST. LOUIS

JOB NO.
J6S3599

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)

SPECIAL SHEET
RESURFACING PLAN

MSD PERMIT# 23MSD-00482

RTE. N MATCHLINE STA. 223+00.0

RTE. N MATCHLINE STA. 235+25.0

COOL VALLEY DRIVE

BEGIN RESURFACING STA. 232+20.8

UIP SANITARY SEWER MH
14H1-024S
MSD MAINTAINED

MSD MAINTAINED
UIP STORM SEWER INLET
14H1-015D

UIP 6x6 RCB
14H1-166D
MoDOT MAINTAINED

UIP 6x4 RCB
14H1-189D
MSD MAINTAINED

UIP STORM SEWER MH
NO MSD#
MoDOT MAINTAINED

CLEAN-OUT
UIP STORM SEWER INLET
NO MSD#
MoDOT MAINTAINED

UIP STORM SEWER INLET
NO MSD#
MSD MAINTAINED

UIP STORM SEWER INLET
NO MSD#
MSD MAINTAINED

ATG GAS VALVE

UIP SANITARY SEWER MH
14H1-014S
MSD MAINTAINED

UIP STORM SEWER INLET
NO MSD#
MoDOT MAINTAINED
CLEAN-OUT

UIP STORM SEWER INLET
14H1-164D
MSD MAINTAINED

NEW DRAINAGE FLUME
5-2F
NO MSD#
MoDOT MAINTAINED

NEW DRAINAGE FLUME
5-3F
NO MSD#
MoDOT MAINTAINED

UIP SANITARY SEWER MH
14H1-140S
MSD MAINTAINED

UIP SANITARY SEWER MH
14H1-139S
MSD MAINTAINED

UIP SANITARY SEWER MH
14H1-138S
MSD MAINTAINED

UIP
14H1-158D
MSD MAINTAINED

UIP
NO MSD#
MSD MAINTAINED

ATG WATER VALVES

UIP
NO MSD#
MSD MAINTAINED

ATG SANITARY SEWER MH
14H1-137S
MSD MAINTAINED

UIP
14H1-155D
MSD MAINTAINED

UIP CONNECTION
14H1-152D
MSD MAINTAINED

CONCRETE
ASPHALT

LEGEND	
	2" MILL/FILL SP125CLP w/ PG 70-22
	2" MILL/FILL BP-1 w/ PG 64-22

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SCALE
0 40 80 120

STATE OF MISSOURI
JAMIE F. RANA
NUMBER PE-2005001034
PROFESSIONAL ENGINEER
Jami F. Rana
01/28/2024 11:29:03 AM
JAMIE F. RANA - CIVIL
MO-PE-2005001034

DATE PREPARED
1/24/2024

ROUTE	STATE
N	MO
DISTRICT	SHEET NO.
SL	115

COUNTY
ST. LOUIS

JOB NO.
J6S3599

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)

SPECIAL SHEET
RESURFACING PLAN

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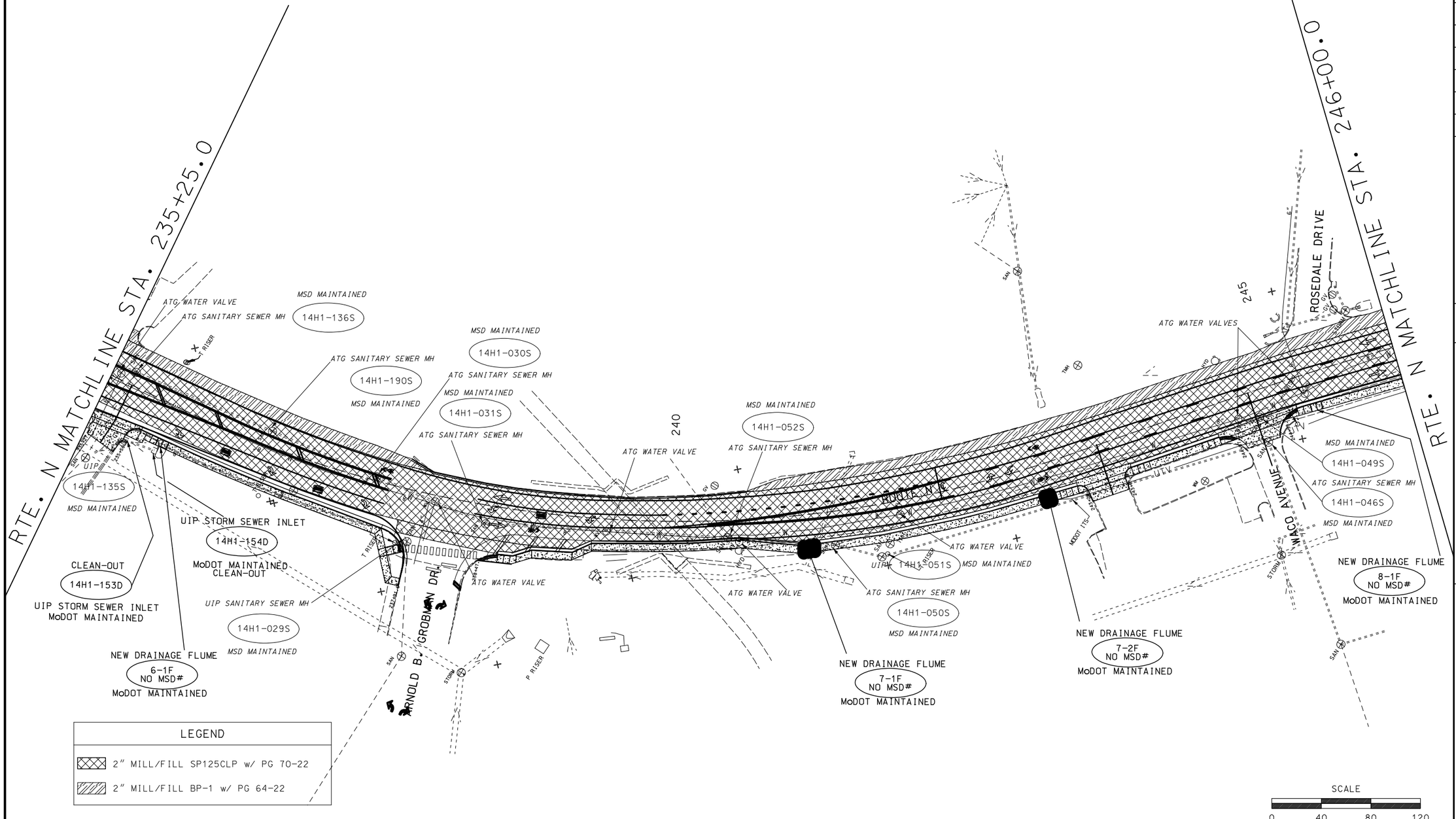
MSD PERMIT# 23MSD-00482



STATE OF MISSOURI
JAMIE F. RANA
NUMBER PE-2005001034
PROFESSIONAL ENGINEER
Jamie F. Rana
01/28/2024 11:29:26 AM
JAMIE F. RANA - CIVIL
MO-PE-2005001034

DATE PREPARED
1/24/2024

ROUTE	STATE
N	MO
DISTRICT	SHEET NO.
SL	116

COUNTY
ST. LOUIS

JOB NO.
J6S3599

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)

SPECIAL SHEET RESURFACING PLAN

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MSD PERMIT# 23MSD-00482

RTE. N MATCHLINE STA. 246+00.0

RTE. N MATCHLINE STA. 256+00.0

ROUTE N

CIRCLE DRIVE

MARIETTA DRIVE

UIP STORM SEWER OUTLET
14H1-033D
MSD MAINTAINED

UIP STORM SEWER INLET
14H1-028D
MSD MAINTAINED

UIP STORM SEWER INLET
14H1-029D
MSD MAINTAINED

UIP STORM SEWER INLET
14H1-030D
MSD MAINTAINED

UIP STORM SEWER INLET
14H1-031D
MSD MAINTAINED

MSD MAINTAINED
14H1-186S
UIP SANITARY SEWER MH

MSD MAINTAINED
14H4-005S
UIP SANITARY SEWER MH

MSD MAINTAINED
14H4-129S
ATG SANITARY SEWER MH

UIP STORM SEWER MANHOLE
14H4-0152D
MSD MAINTAINED

CLEANOUT
ATG STORM SEWER INLET
14H4-084D
MoDOT MAINTAINED

CLEANOUT
ATG STORM SEWER INLET
14H4-082D
MoDOT MAINTAINED

ATG GAS VALVE

ATG AT&T MANHOLE

CLEANOUT
ATG STORM SEWER INLET
14H1-034D
MoDOT MAINTAINED

CLEANOUT
ATG STORM SEWER MH
14H4-001D
MoDOT MAINTAINED

CLEANOUT
ATG STORM SEWER INLET
NO MSD#
MoDOT MAINTAINED

ATG STORM SEWER MANHOLE
14H1-037D
MoDOT MAINTAINED

UIP STORM SEWER MANHOLE
14H4-090D
MSD MAINTAINED

UIP STORM SEWER INLET
14H1-234D
MoDOT MAINTAINED

NEW DRAINAGE FLUME
8-2F
NO MSD#
MoDOT MAINTAINED

UIP STORM SEWER INLET
NO MSD#
MoDOT MAINTAINED

ATG SANITARY SEWER MH
14H1-048S
MSD MAINTAINED

UIP STORM SEWER MANHOLE
14H4-086D
MSD MAINTAINED

MSD MAINTAINED
14H4-026S
UIP SANITARY SEWER MH

UIP STORM SEWER INLET
14H4-088D
MSD MAINTAINED

ATG SANITARY SEWER MH
14H4-143S
MSD MAINTAINED

UIP STORM SEWER MANHOLE
14H4-085D
MoDOT MAINTAINED

UIP STORM SEWER MANHOLE
14H4-0154D
MSD MAINTAINED

UIP STORM SEWER MANHOLE
14H4-083D
MoDOT MAINTAINED

ELEC. CONDUIT ON WALL

LEGEND

- 2" MILL/FILL SP125CLP w/ PG 70-22
- 2" MILL/FILL BP-1 w/ PG 64-22

SCALE
0 40 80 120

STATE OF MISSOURI
JAMIE F. RANA
NUMBER PE-2005001034
PROFESSIONAL ENGINEER

Jamie F. Rana
01/28/2024 12:40:08 PM
JAMIE F. RANA - CIVIL
MO-PE-2005001034
DATE PREPARED
1/24/2024

ROUTE	STATE
N	MO
DISTRICT	SHEET NO.
SL	117

COUNTY
ST. LOUIS

JOB NO.
J6S3599

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)

SPECIAL SHEET
RESURFACING PLAN

DISCLAIMER
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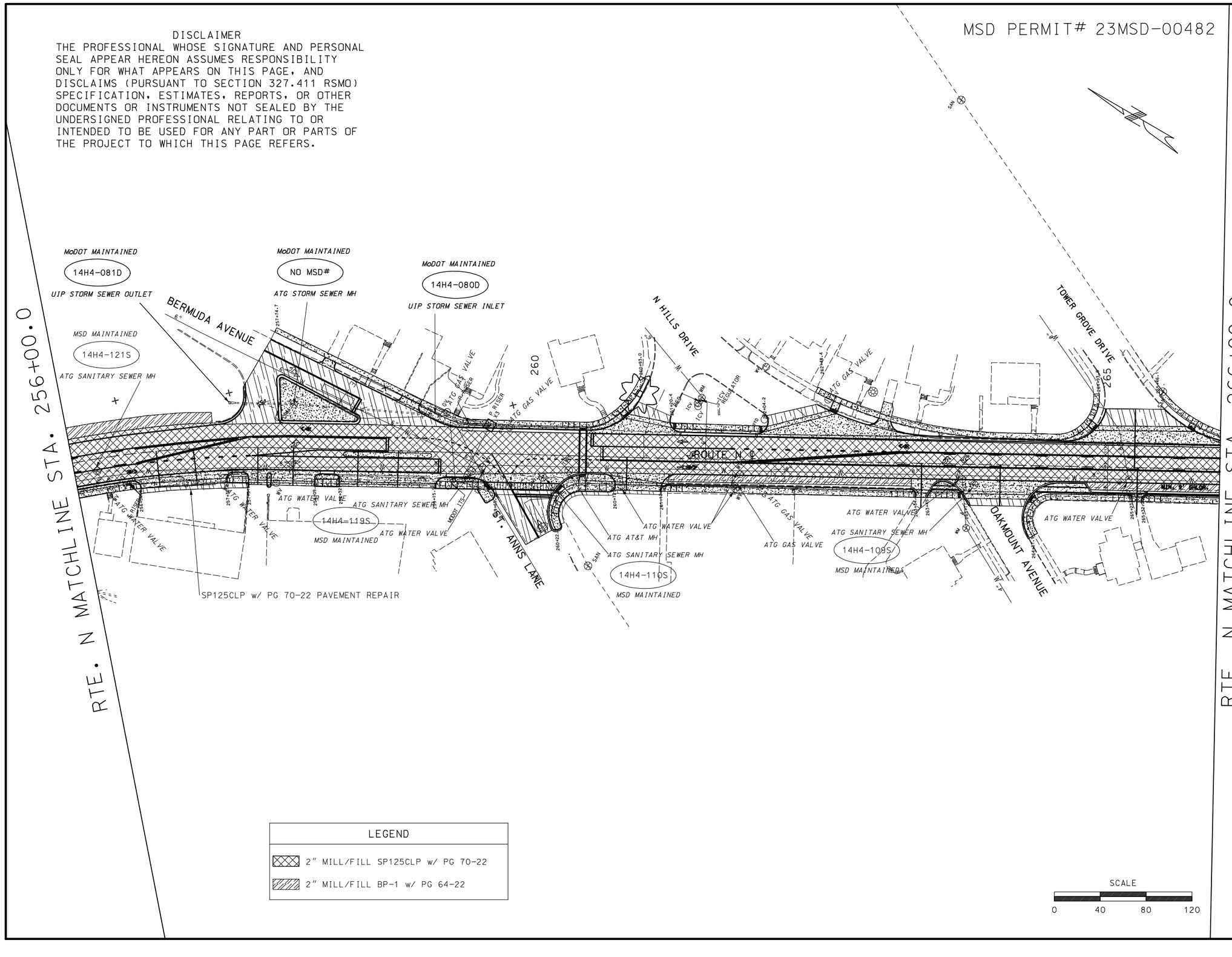

LEGEND

- 2" MILL/FILL SP125CLP w/ PG 70-22
- 2" MILL/FILL BP-1 w/ PG 64-22

SCALE
0 40 80 120

STATE OF MISSOURI
JAMIE F. RANA
NUMBER PE-2005001034
PROFESSIONAL ENGINEER
Jamie F. Rana
01/29/2024 12:40:26 PM
JAMIE F. RANA - CIVIL
MO-PE-2005001034

DATE PREPARED
1/24/2024

ROUTE	STATE
N	MO
DISTRICT	SHEET NO.
SL	118

COUNTY
ST. LOUIS

JOB NO.
J6S3599

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

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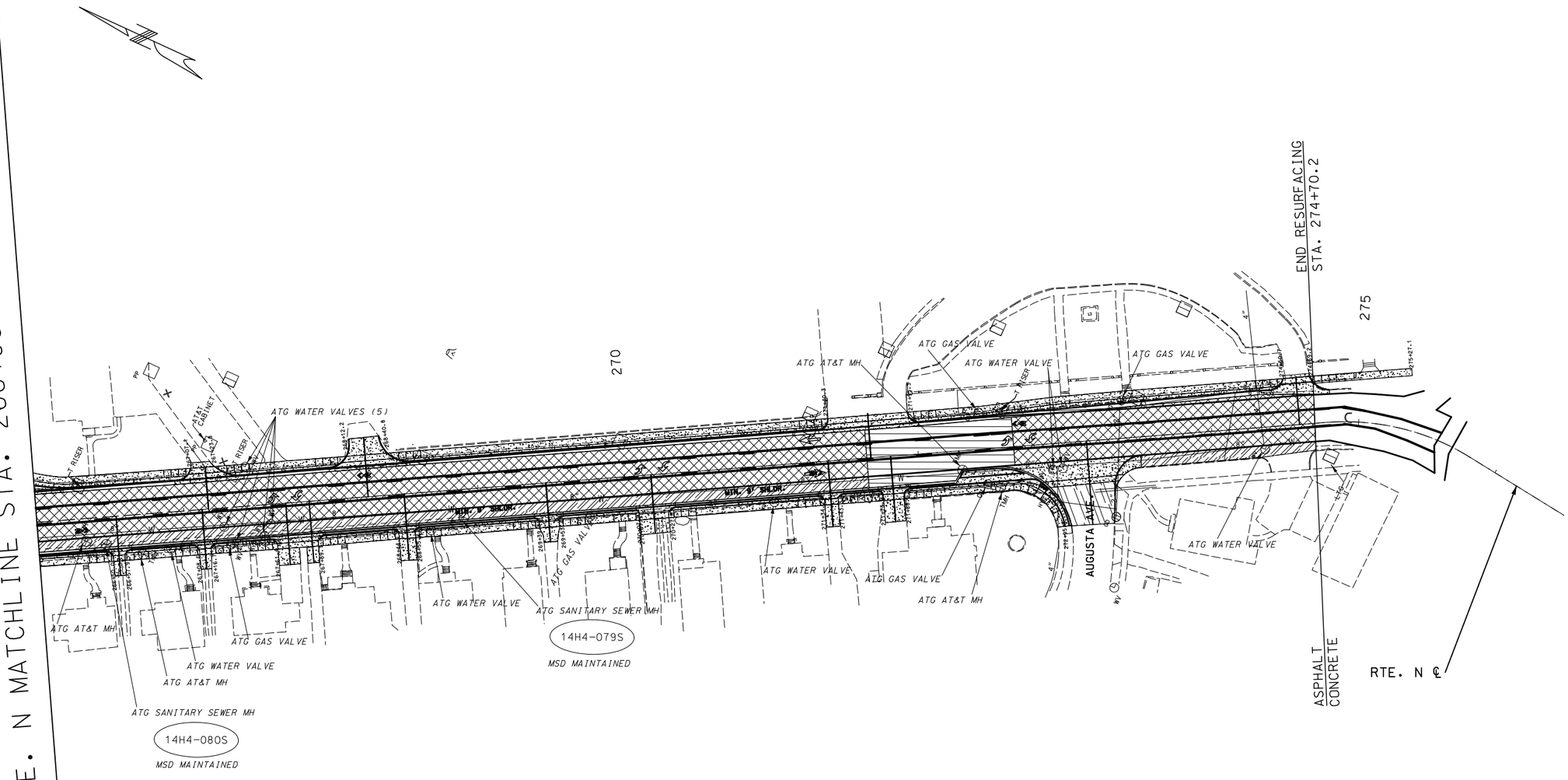
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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

SPECIAL SHEET
RESURFACING PLAN

MSD PERMIT# 23MSD-00482



LEGEND

- 2" MILL/FILL SP125CLP w/ PG 70-22
- 2" MILL/FILL BP-1 w/ PG 64-22
- SEE CROWN CORRECTION SPECIAL SHEETS

DISCLAIMER

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SCALE

0 40 80 120

STATE OF MISSOURI
JAMIE F. RANA
NUMBER PE-2005001034
PROFESSIONAL ENGINEER

Jamie F. Rana
01/28/2024 12:40:50 PM
JAMIE F. RANA - CIVIL
MO-PE-2005001034

DATE PREPARED
1/24/2024

ROUTE	STATE
N	MO
DISTRICT	SHEET NO.
SL	119

COUNTY
ST. LOUIS

JOB NO.
J6S3599

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

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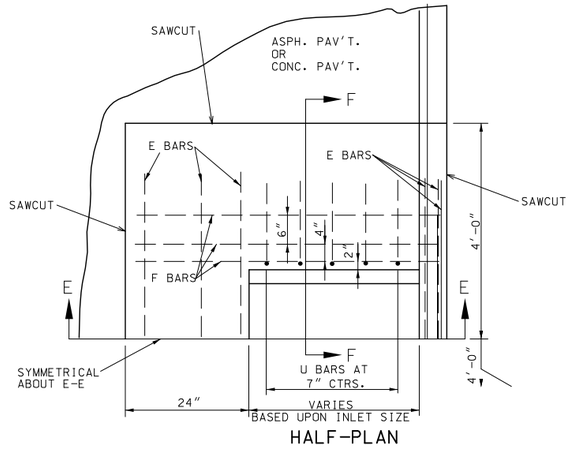
DESCRIPTION	DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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

SPECIAL SHEET
RESURFACING PLAN

MSD PERMIT# 23MSD-00482



HALF-PLAN

REPLACING INLET TOPS

NOT TO SCALE

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PAV'T THICKNESS	"T" DIMENSION
LESS THAN OR EQUAL TO 11"	11"
12"	12"
13"	13"
GREATER THAN OR EQUAL TO 14"	14"

PAVEMENT BAR BILL

TYPE	LENGTH	WIDTH	MARK	NO.	LENGTH
A	2'	2'	E	6	6'-0"
			F	6	4'-6"
			U	8	2'-9"
	3'	2'	E	6	6'-0"
			F	6	5'-6"
			U	10	2'-9"
	4'	2'	E	6	6'-0"
			F	6	6'-6"
			U	14	2'-9"

BARS E, F, & U #4

GENERAL NOTES:

1. THE CONFIGURATION DETAILS SHOWN ARE DESCRIPTIVE ONLY AND MAY BE VARIED TO CONFORM WITH ESTABLISHED MANUFACTURING PROCEDURES.

2. TOP OF DROP INLET WALLS SHALL BE CONSTRUCTED TO THE ELEVATION OF BOTTOM OF PAVEMENT AT THE EDGE OF PAVEMENT OR BOTTOM OF CURB AND GUTTER AT DROP INLET.

3. ALL CONCRETE ABOVE THE TAR PAPER SEPARATION JOINT IS TO BE CONSTRUCTED PRIOR TO PAVING OPERATIONS.

4. REINFORCING BARS IN PAVEMENT SHALL BE EPOXY COATED AND SECURELY TIED TOGETHER AND FASTENED TO AVOID ANY POSSIBLE DISPLACEMENT DURING THE PLACING OF CONCRETE,

5. NO DIRECT PAYMENT WILL BE MADE FOR PROVIDING, CUTTING, OR BENDING REINFORCING STEEL.

6. NO DIRECT PAYMENT WILL BE MADE FOR SAWCUTTING EXISTING PAVEMENT AROUND INLET AND REMOVING DAMAGED CONCRETE.

7. NO DIRECT PAYMENT WILL BE MADE FOR FORMING OR PROVIDING NEW GRATE AND BEARING PLATE.

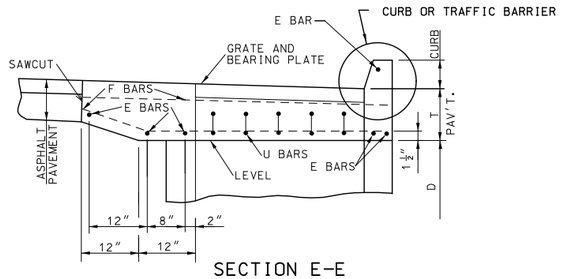
8. THE REINFORCEMENT SHOWN IS THE MINIMUM REQUIRED. AT THE CONTRACTOR'S OPTION, ADDITIONAL REINFORCEMENT MAY BE USED.

9. MINIMUM CLEARANCE TO REINFORCING STEEL SHALL BE 1-1/2" UNLESS OTHERWISE SPECIFIED.

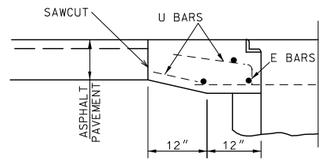
10. ALL CAST-IN-PLACE CONCRETE SHALL MEET THE SPECIFICATIONS OF MODOT CLASS B-1 CONCRETE.

11. ALL WORK INCLUDING REMOVALS AND NEW STEEL, CONCRETE, REINFORCING BARS, TAR PAPER, AND BACKFILL NECESSARY TO COMPLETE THE CONSTRUCTION OF REPLACING THE INLET TOP AND ADJUSTING TO GRADE IF NECESSARY SHALL BE CONSIDERED COMPLETELY COVERED BY THE CONTRACT UNIT PRICE FOR SPECIAL INLET (EACH).

12. SEE STANDARD PLAN 731.10 FOR ADDITIONAL INLET DETAILS.



SECTION E-E



HALF SECTION F-F

STATE OF MISSOURI
JAMIE F. RANA
NUMBER PE-2005001034
PROFESSIONAL ENGINEER
Jamie F. Rana
01/28/2024 12:41:11 PM
JAMIE F. RANA - CIVIL
MO-PE-2005001034

DATE PREPARED
1/24/2024

ROUTE	STATE
N	MO
DISTRICT	SHEET NO.
SL	120A

COUNTY
ST. LOUIS

JOB NO.
J6S3599

CONTRACT ID.

PROJECT NO.

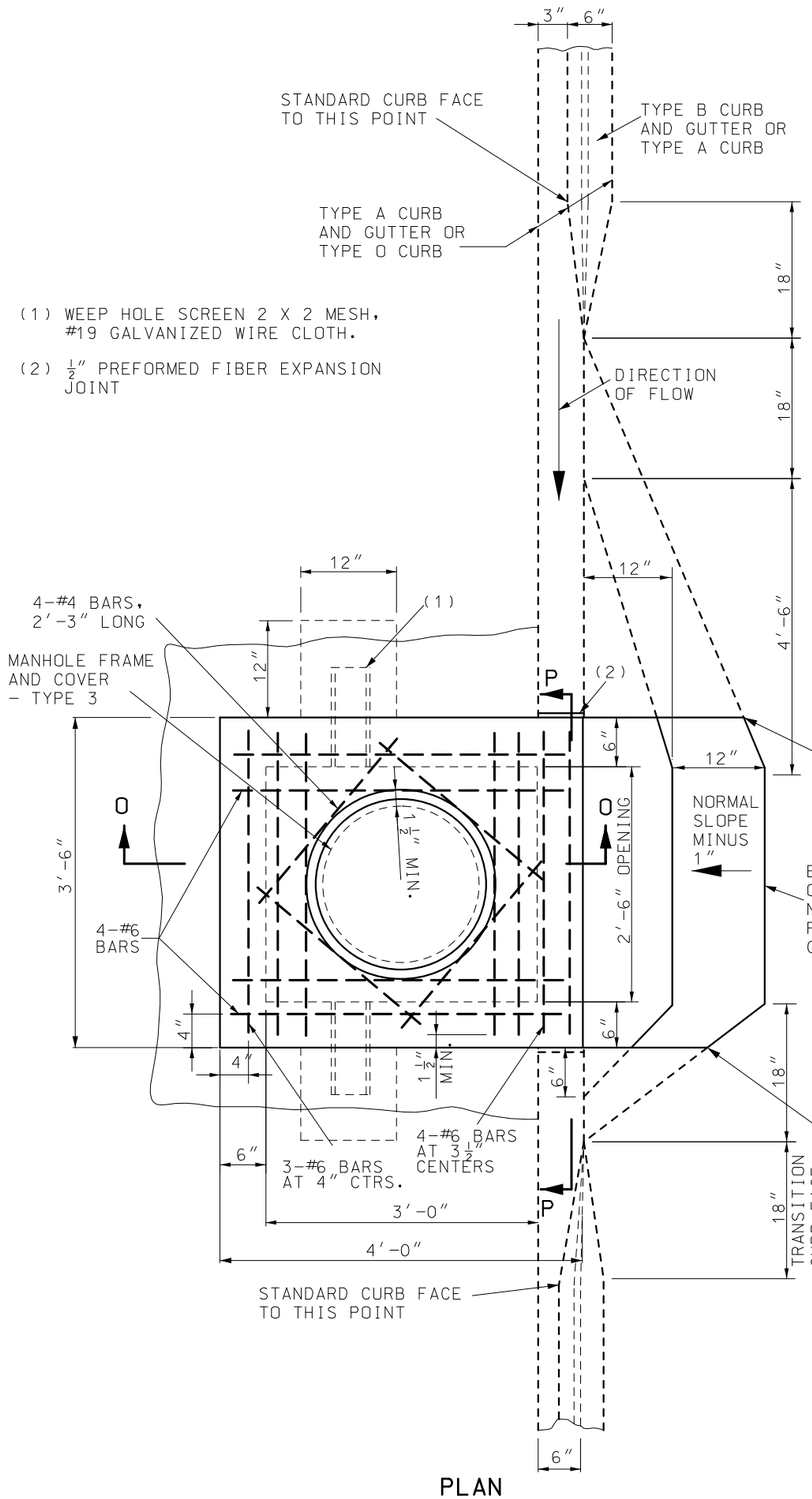
BRIDGE NO.

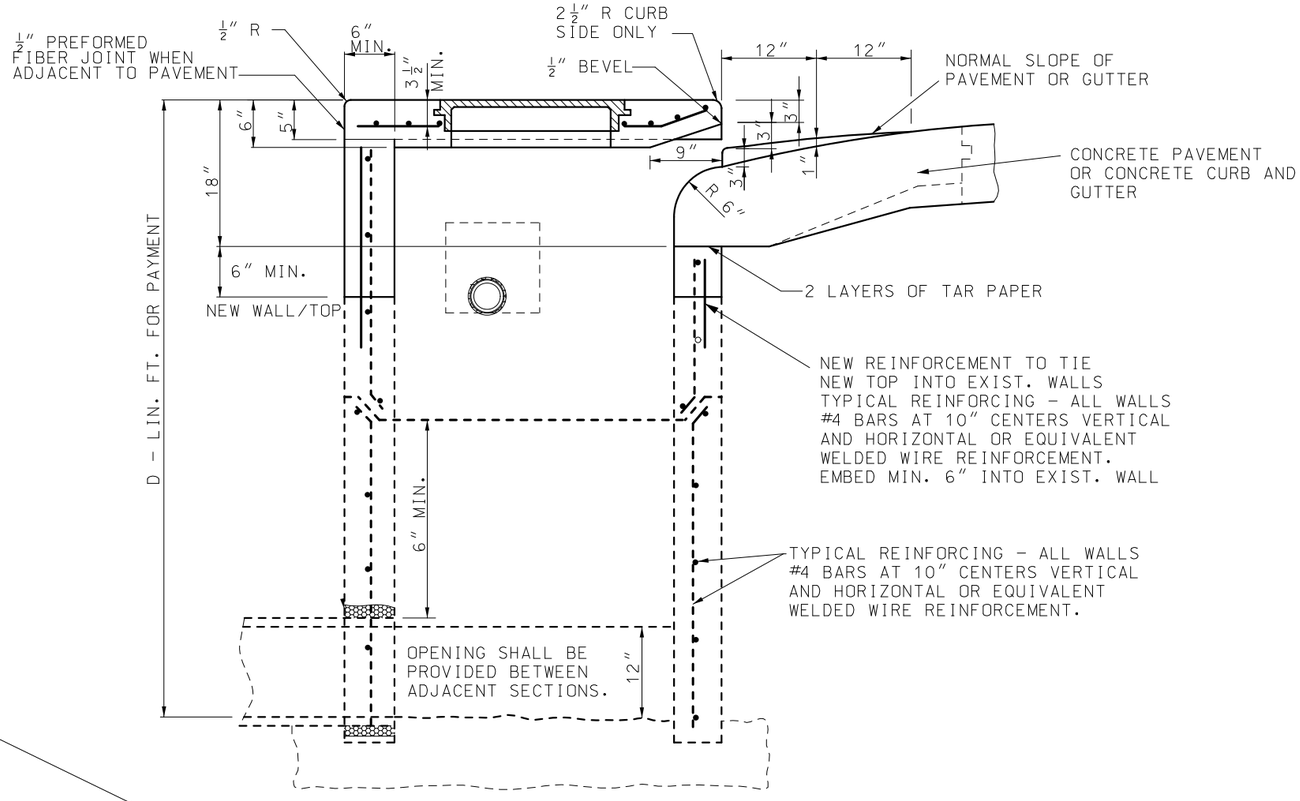
IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

REV.	DESCRIPTION	DATE

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

SPECIAL SHEET
REPLACE DROP INLET COVER TO GRADE





LIMITS OF NEW CONSTRUCTION (IF NECESSARY) OF PAVEMENT. TO BE INCLUDED IN THE COST OF THE NEW INLET TOP.

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STATE OF MISSOURI
JAMIE F. RANA
NUMBER PE-2005001034
PROFESSIONAL ENGINEER
Jamie F. Rana
01/28/2024 12:41:33 PM
JAMIE F. RANA - CIVIL
MO-PE-2005001034

DATE PREPARED: 1/24/2024

ROUTE	STATE
N	MO
DISTRICT	SHEET NO.
SL	120B

COUNTY: ST. LOUIS
JOB NO.: J6S3599
CONTRACT ID.:
PROJECT NO.:
BRIDGE NO.:

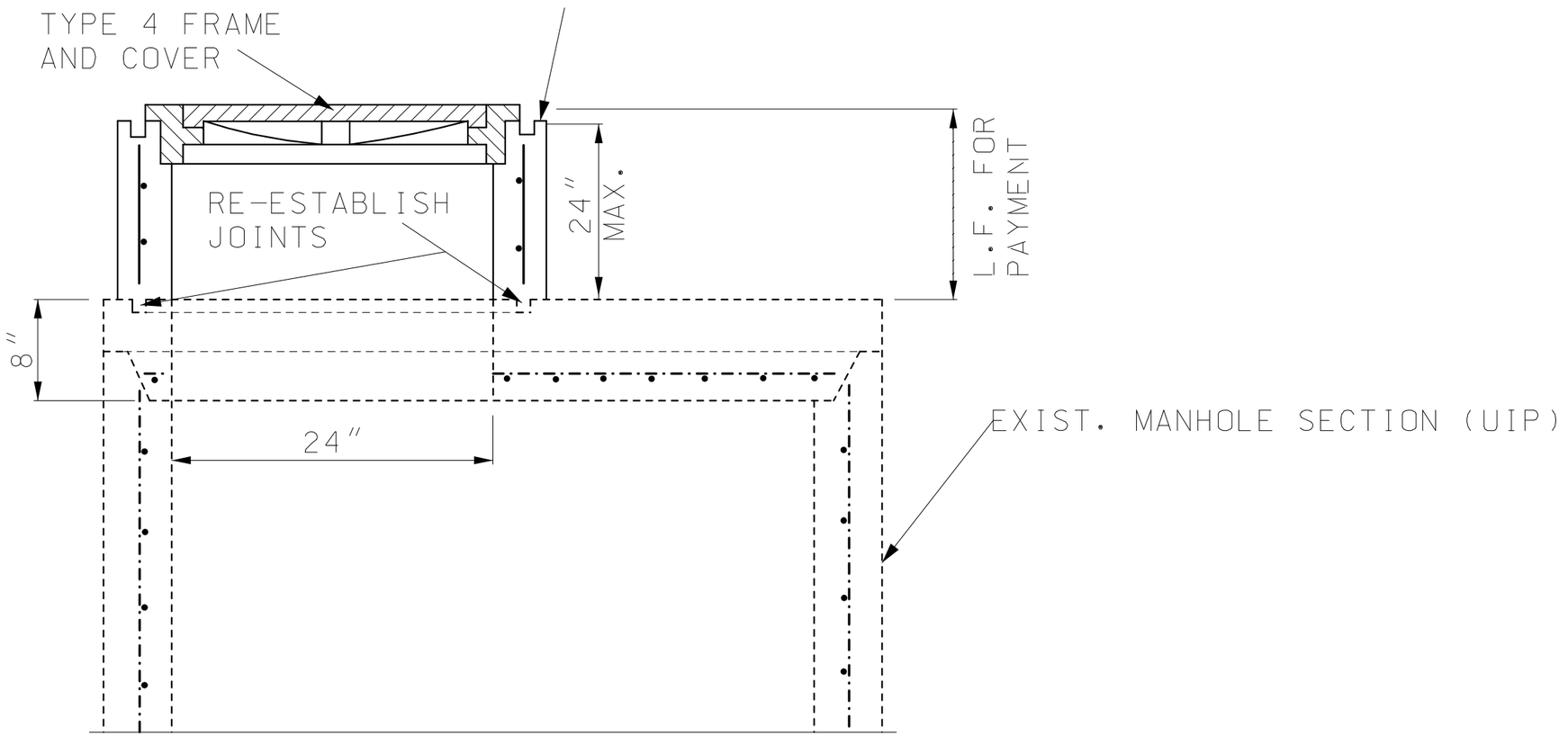
DESCRIPTION	DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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

SPECIAL SHEET
REPLACE INLET TOP
CURB INLET - TYPE T

MSD PERMIT# 23MSD-00482



ALTERNATE MANHOLE TOP

GENERAL NOTES:

THE CONTRACTOR SHALL SAW CUT AND REMOVE THE EXISTING MANHOLE TOP AS NOTED IN THE PLANS. A PORTION OF THE INLET WALLS MAY ALSO NEED REMOVAL IN ORDER TO CREATE A SURFACE EVEN WITH EXISTING GROUND ELEVATIONS.

REINFORCING BARS SHALL BE EPOXY COATED AND SECURELY DRILLED INTO THE EXISTING STRUCTURE TO CONNECT THE NEW MANHOLE TOP SECTION TO THE EXISTING MANHOLE. THE CONTRACTOR SHALL HAVE THE OPTION TO CUT THE EXISTING INLET TOP INCLUDING NECESSARY SIDEWALLS AND FORM A NEW TOP THAT SURROUNDS THE EXISTING INLET IN LIEU OF DOWELING INTO THE EXISTING WALLS.

JOINTS SHALL BE SEALED IN ACCORDANCE WITH SECTION 726.3.1 OF THE STANDARD SPECIFICATIONS.

THE CONTRACTOR WILL BE PERMITTED TO CAST IN PLACE THE NEW MANHOLE TOP CALLED FOR IN THE PLANS.

NO DIRECT PAYMENT WILL BE MADE FOR REINFORCING STEEL.

NO DIRECT PAYMENT WILL BE MADE FOR CUTTING OR BENDING REINFORCING STEEL.

THE REINFORCEMENT SHOWN IS THE MINIMUM REQUIRED. AT THE CONTRACTOR'S OPTION, ADDITIONAL REINFORCEMENT MAY BE USED.

REINFORCING STEEL EDGE DISTANCE SHALL BE MINIMUM OF 2" UNLESS OTHERWISE SPECIFIED.

A PRECAST TOP THAT IS TIED TO THE EXISTING INLET MAY BE INSTALLED AS AN ALTERNATIVE WITH APPROVAL FROM THE ENGINEER.

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STATE OF MISSOURI
JAMIE F. RANA
NUMBER PE-2005001034
PROFESSIONAL ENGINEER
Jamie F. Rana
01/29/2024 12:41:49 PM
JAMIE F. RANA - CIVIL
MO-PE-2005001034

DATE PREPARED
1/24/2024

ROUTE	STATE
N	MO
DISTRICT	SHEET NO.
SL	120C

COUNTY
ST. LOUIS

JOB NO.
J6S3599

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)

SPECIAL SHEET
CONVERT GRATE INLET
TO MANHOLE

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

DISCLAIMER

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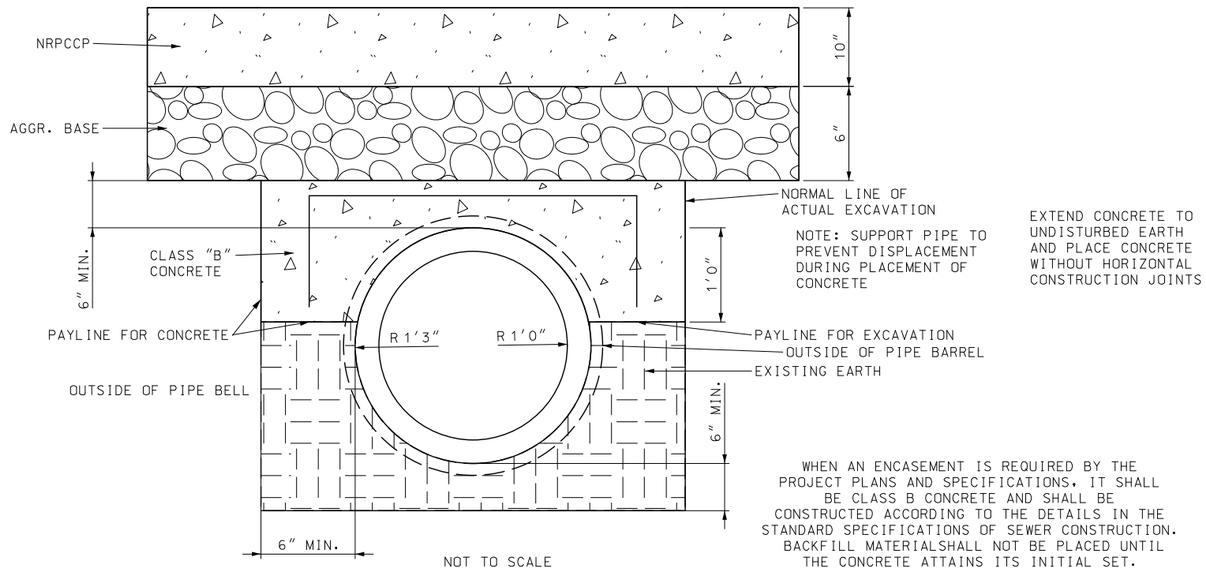

NOTE: SUPPORT PIPE TO PREVENT DISPLACEMENT DURING PLACEMENT OF CONCRETE

EXTEND CONCRETE TO UNDISTURBED EARTH AND PLACE CONCRETE WITHOUT HORIZONTAL CONSTRUCTION JOINTS

NOT TO SCALE

WHEN AN ENCASEMENT IS REQUIRED BY THE PROJECT PLANS AND SPECIFICATIONS, IT SHALL BE CLASS B CONCRETE AND SHALL BE CONSTRUCTED ACCORDING TO THE DETAILS IN THE STANDARD SPECIFICATIONS OF SEWER CONSTRUCTION. BACKFILL MATERIALSHALL NOT BE PLACED UNTIL THE CONCRETE ATTAINS ITS INITIAL SET.

CONCRETE ENCASEMENT

NOTE: ENCASING PIPE TO BE PAID FOR AS THE NECESSARY AMOUNT OF CLASS B CONCRETE TO ENCASE SAID PIPE SPECIFIED IN THE PLANS.

STATE OF MISSOURI
JAMIE F. RANA
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Jamie F. Rana
01/28/2024 12:42:08 PM
JAMIE F. RANA - CIVIL
MO-PE-2005001034

DATE PREPARED
1/24/2024

ROUTE	STATE
N	MO
DISTRICT	SHEET NO.
SL	120D

COUNTY
ST. LOUIS

JOB NO.
J6S3599

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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
PIPE ENCASEMENT

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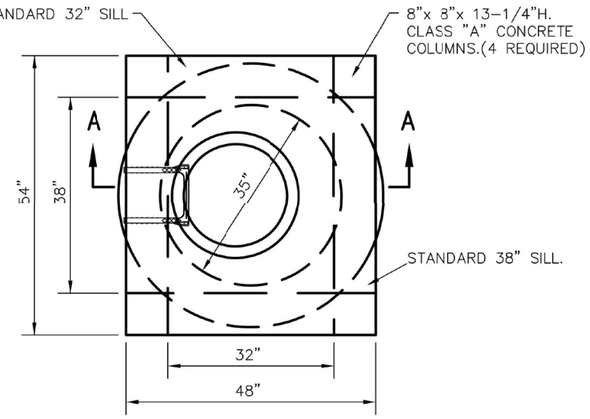
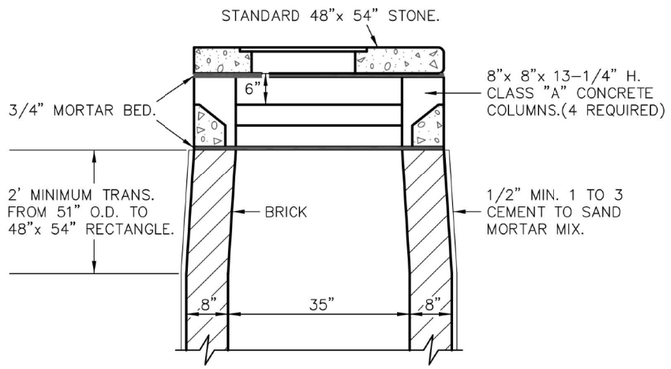
ALL MSD MAINTAINED STRUCTURES MUST MEET MSD CONSTRUCTION STANDARDS

MSD PERMIT# 23MSD-00482



PLAN

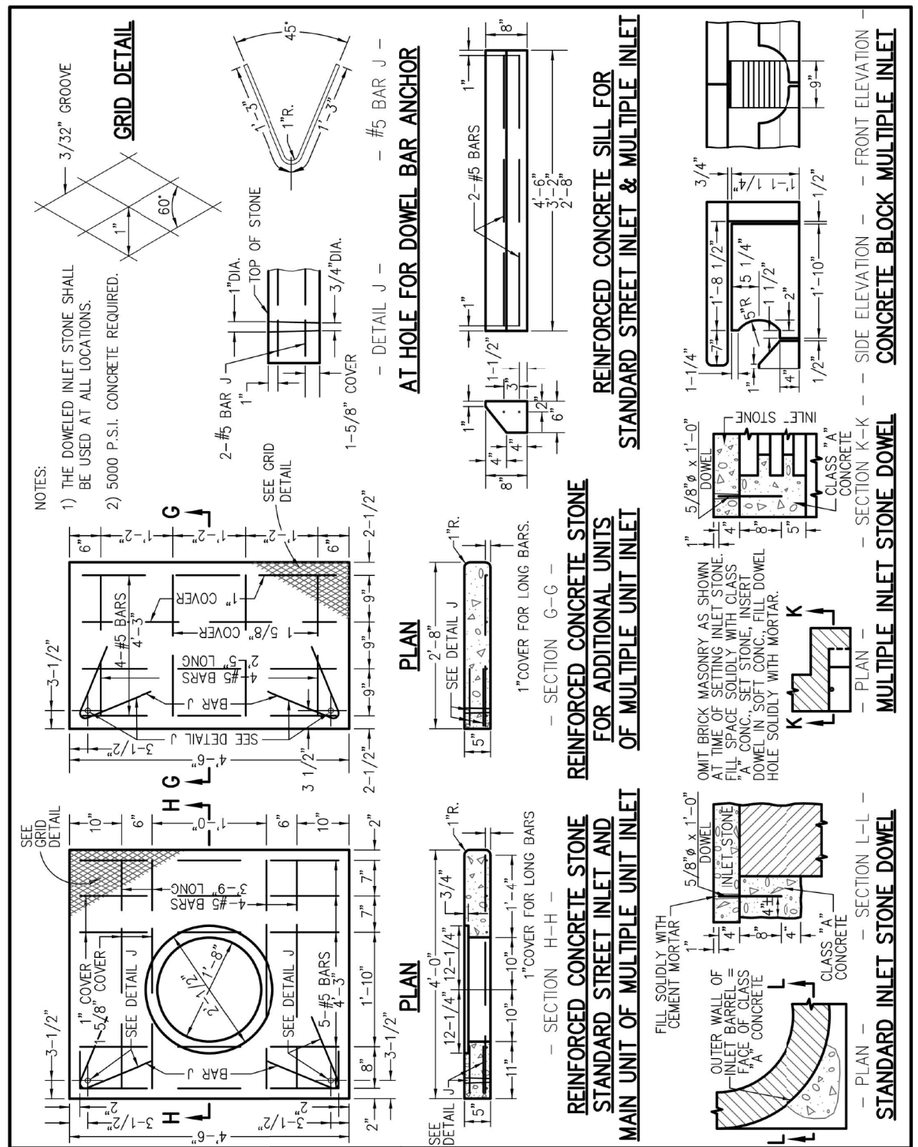


SECTION A-A

NOTE:

STANDARD DEPTH = 4.0 FEET.

AREA INLET OPEN 4 SIDES BRICK CONSTRUCTION	METROPOLITAN ST. LOUIS SEWER DISTRICT *Standard Details of Sewer Construction*		
	Dr. R.G.W. Ch. J.C.K.	2009	SHEET 28



STANDARD - INLET STONES, BLOCKS & DESIGN DETAILS	METROPOLITAN ST. LOUIS SEWER DISTRICT *Standard Details of Sewer Construction*		
	Dr. WSH/SAM Ch. J.C.K.	2009	SHEET 44

STATE OF MISSOURI
JAMIE F. RANA
NUMBER PE-2005001034
PROFESSIONAL ENGINEER
Jamie F. Rana
01/08/2024 12:42:28 PM
JAMIE F. RANA - CIVIL
MO-PE-2005001034

DATE PREPARED
1/24/2024

ROUTE	STATE
N	MO
DISTRICT	SHEET NO.
SL	120E

COUNTY
ST. LOUIS

JOB NO.
J6S3599

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)

SPECIAL SHEET
MSD STANDARDS

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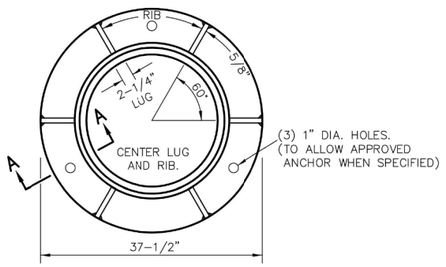
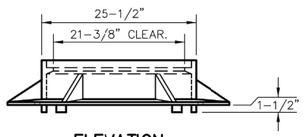
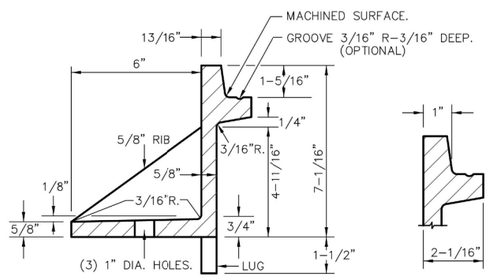


PLAN



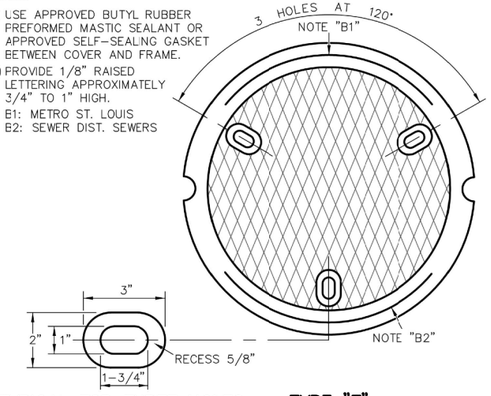
ELEVATION



SECTION A-A
(230 lbs.)

CAST IRON MANHOLE FRAME	METROPOLITAN ST. LOUIS SEWER DISTRICT *Standard Details of Sewer Construction*		
	Dr. DAB/SAM Ch. J.C.K.	2009	SHEET 52

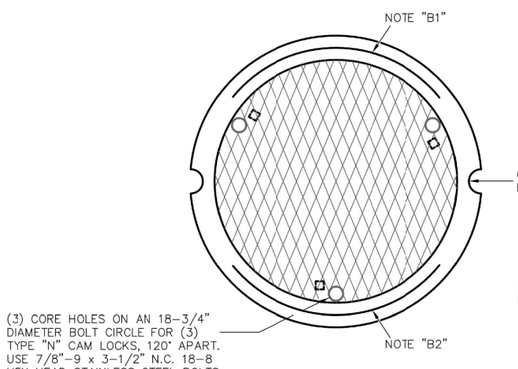
NOTES:
1) USE APPROVED BUTYL RUBBER PREFORMED MASTIC SEALANT OR APPROVED SELF-SEALING GASKET BETWEEN COVER AND FRAME.
2) PROVIDE 1/8" RAISED LETTERING APPROXIMATELY 3/4" TO 1" HIGH.
B1: METRO ST. LOUIS
B2: SEWER DIST. SEWERS



SEE SHEET 55 FOR LOCKING DEVICE.

TYPICAL FOR THREE HOLES

TYPE "T"

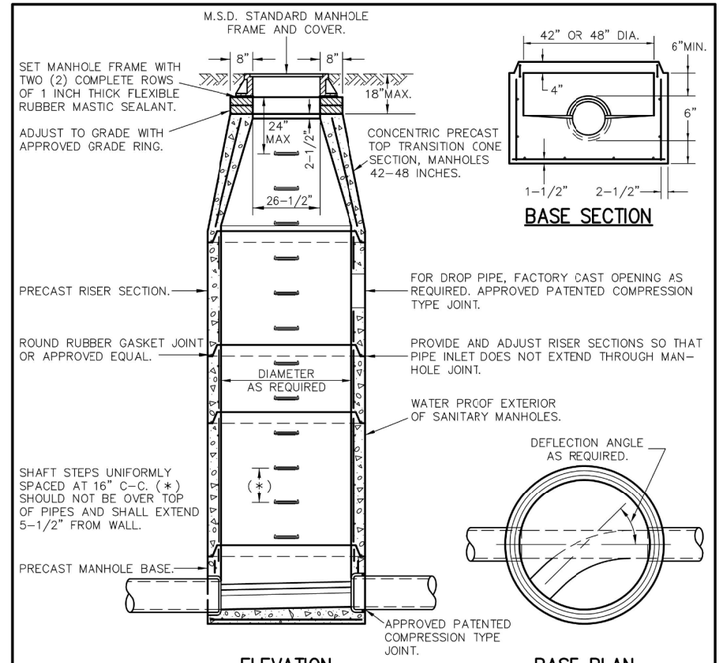


SEE SHEET 56 FOR LOCKING DEVICE.

TYPE "N"

CAST IRON MANHOLE COVERS (LOCK TYPE)	METROPOLITAN ST. LOUIS SEWER DISTRICT *Standard Details of Sewer Construction*		
	Dr. WSH/SAM Ch. J.C.K.	2009	SHEET 54

ALL MSD MAINTAINED STRUCTURES MUST MEET MSD CONSTRUCTION STANDARDS



ELEVATION

BASE SECTION

BASE PLAN

NOTES:

1) THE MINIMUM INSIDE DIAMETER FOR THE BASE AND RISER SECTIONS SHALL BE 42 INCHES FOR 8 INCH DIAMETER SANITARY SEWERS AND ALL STORM SEWERS. THE MINIMUM INSIDE DIAMETER FOR SANITARY SEWERS LARGER THAN 8 INCH DIAMETER IS 48 INCHES. MANHOLE SHALL MEET ASTM C-478 REQUIREMENTS.
2) FLOWLINE ELEVATION OF INCOMING PIPES SHALL BE 1 INCH HIGHER THAN THAT OF OUTGOING PIPE.
3) PIPE SIZES LARGER THAN 24 INCH DIAMETER MAY REQUIRE MANHOLE DIAMETERS OF 60 INCH, 72 INCH OR 96 INCH AS DETERMINED BY OUTSIDE DIAMETERS AND ORIENTATIONS OF CONNECTING PIPES.
4) ECCENTRIC CONES SHALL BE USED ON DIAMETERS 60 INCH AND LARGER. STEPS SHALL EXTEND DOWN VERTICAL WALL OF CONE.
5) PRIOR TO FABRICATION, SHOP DRAWINGS SHALL BE SUBMITTED TO THE DISTRICT FOR APPROVAL OF MAN-HOLES ON PIPE DIAMETERS LARGER THAN 24 INCH AND ALSO FOR THOSE STRUCTURES WITH A DROP PIPE CONNECTION.

PRECAST CONCRETE MANHOLE	METROPOLITAN ST. LOUIS SEWER DISTRICT *Standard Details of Sewer Construction*		
	Dr. WSH/SAM Ch. J.C.K.	2009	SHEET 21 (REV)

STATE OF MISSOURI
JAMIE F. RANA
NUMBER PE-2005001034
PROFESSIONAL ENGINEER
Jamie F. Rana
01/28/2024 12:42:51 PM
JAMIE F. RANA - CIVIL
MO-PE-2005001034

DATE PREPARED
1/24/2024

ROUTE	STATE
N	MO
DISTRICT	SHEET NO.
SL	120F

COUNTY
ST. LOUIS

JOB NO.
J6S3599

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)

SPECIAL SHEET
MSD STANDARDS

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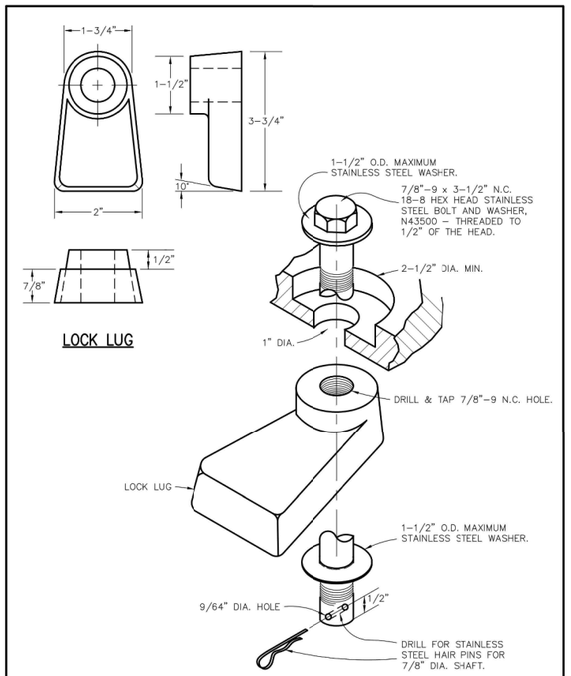
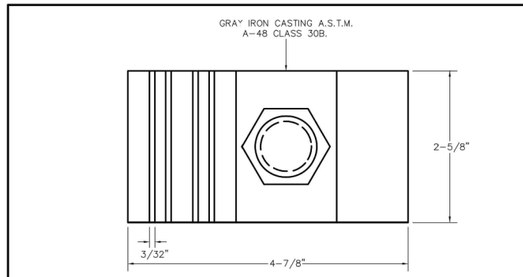
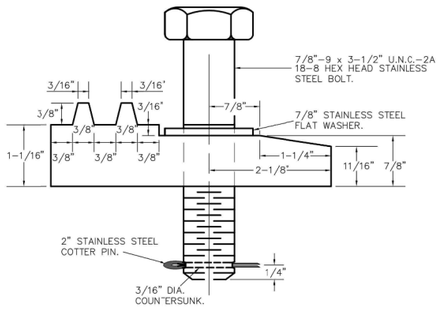


LOCK LUG

LOCKING DEVICE FOR TYPE "N" LOCK TYPE MANHOLE COVER	METROPOLITAN ST. LOUIS SEWER DISTRICT *Standard Details of Sewer Construction*		
	Dr. JLG/SAM Ch. J.C.K.	2009	SHEET 56



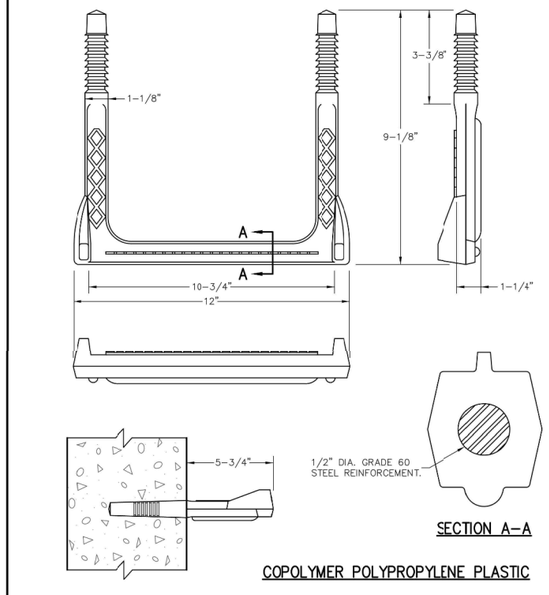
PLAN



DETAIL

LOCKING DEVICE FOR TYPE "T" LOCK TYPE MANHOLE COVER	METROPOLITAN ST. LOUIS SEWER DISTRICT *Standard Details of Sewer Construction*		
	Dr. RGW/SAM Ch. J.C.K.	2009	SHEET 55

ALL MSD MAINTAINED STRUCTURES MUST MEET MSD CONSTRUCTION STANDARDS



SECTION A-A

COPOLYMER POLYPROPYLENE PLASTIC

MANHOLE STEP FOR PRECAST & CAST-IN-PLACE MANHOLE	METROPOLITAN ST. LOUIS SEWER DISTRICT *Standard Details of Sewer Construction*		
	Dr. D.A.B. Ch. J.C.K.	2009	SHEET 58

STATE OF MISSOURI
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PROFESSIONAL ENGINEER
Jamie F. Rana
02/22/2024 1:30:42 PM
JAMIE F. RANA - CIVIL
MO-PE-2005001034

DATE PREPARED
2/22/2024

ROUTE	STATE
N	MO
DISTRICT	SHEET NO.
SL	120G

COUNTY
ST. LOUIS

JOB NO.
J6S3599

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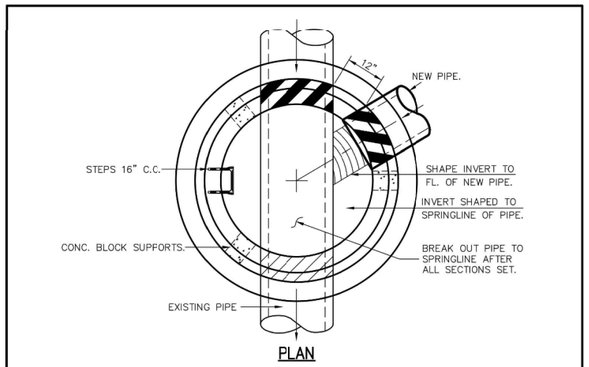

NOTE:
WATER STOP REQUIRED FOR P.V.C.. SANITARY & COMBINED SEWERS TO BE VACUUM TESTED.

PRECAST MANHOLE ON EXISTING PIPE	METROPOLITAN ST. LOUIS SEWER DISTRICT *Standard Details of Sewer Construction*		
	Dr. S.A.M. Ch. P.W.S.	2009	SHEET 18

ALL MSD MAINTAINED STRUCTURES MUST MEET MSD CONSTRUCTION STANDARDS

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MO-PE-2005001034

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N	MO
DISTRICT	SHEET NO.
SL	120H

COUNTY
ST. LOUIS

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105 WEST CAPITOL
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ELECTRIC DUCT BANK
APPROX. DEPTH 42.25"
(UTILITY INVESTIGATION)

STORM SEWER
APPROX. DEPTH 24"
TO TOP OF PIPE
(UTILITY INVESTIGATION)

ELECTRIC DUCT BANK
APPROX. DEPTH 44"
(UTILITY INVESTIGATION)

ELECTRIC DUCT BANK
APPROX. DEPTH 67.5"
(UTILITY INVESTIGATION)

GAS SERVCE
APPROX. DEPTH 38"
(UTILITY INVESTIGATION)

6

190

15" RCP

RISER

STORM

MODOT LIDAR SURVEY

MODOT LIDAR SURVEY

RTE N SURVEY ℄

S 24° 16' 35" W

MISSOURI STATE ROUTE N
(A.K.A. FLORISSANT ROAD)

EVANS AVE.

SCALE
0 20 40 60

NOTE: UTILITIES ON THE WEST SIDE OF RTE. N WERE LOCATED USING MODOT'S LIDAR INVESTIGATION

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STATE OF MISSOURI
JAMIE F. RANA
NUMBER PE-2005001034
PROFESSIONAL ENGINEER
Jamie F. Rana
(01/28/2024 12:43:09 PM
JAMIE F. RANA - CIVIL
MO-PE-2005001034

DATE PREPARED
1/24/2024

ROUTE	STATE
N	MO
DISTRICT	SHEET NO.
SL	121A

COUNTY
ST. LOUIS

JOB NO.
J6S3599

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
UTILITIES
EVANS AVE.

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EXIST. R/W

BERMUDA AVENUE

MODOT LIDAR SURVEY

GAS MAIN
APPROX. DEPTH 48"
(UTILITY INVESTIGATION)

ABANDONED GAS MAIN RISER
APPROX. DEPTH 48"
(UTILITY INVESTIGATION)

SIGNAL COMM. LINE
APPROX. DEPTH 16"
(UTILITY INVESTIGATION)

N HILLS DRIVE

BEGIN RESURFACING

CS STA 256+81.16

PI STA 260+92.27

260

ROUTE N SURVEY ℄

COMM.
APPROX. DEPTH 59.25"
(UTILITY INVESTIGATION)

SEWER
APPROX. DEPTH 77"
(UTILITY INVESTIGATION)

COMM.
APPROX. DEPTH 40.5"
(UTILITY INVESTIGATION)

GAS
APPROX. DEPTH 39"
(UTILITY INVESTIGATION)

MODOT LIDAR SURVEY

MODOT LIDAR SURVEY

MODOT LIDAR SURVEY

MODOT LIDAR SURVEY

APROX. EVERSTREAM COMM. LOCATION (TO BE RELOCATED)

GAS LINE ANTICIPATED TO LEVEL OFF NEAR POTHOLE LOCATION AND HAVE NO VERTICAL ELEV. CHANGE AS THE LINE CROSSES RTE. N TO THE NE

ST. ANN'S LANE

ELEC CONDUIT ON WALL

MODOT ITS

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SCALE

0 30 60 90

STATE OF MISSOURI
JAMIE F. RANA
NUMBER PE-2005001034
PROFESSIONAL ENGINEER

Jamie F. Rana
01/28/2024 12:43:26 PM
JAMIE F. RANA - CIVIL
MO-PE-2005001034

DATE PREPARED
1/24/2024

ROUTE	STATE
N	MO
DISTRICT	SHEET NO.
SL	121B

COUNTY
ST. LOUIS

JOB NO.
J6S3599

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

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)

SPECIAL SHEET
UTILITIES
ST. ANN'S LANE

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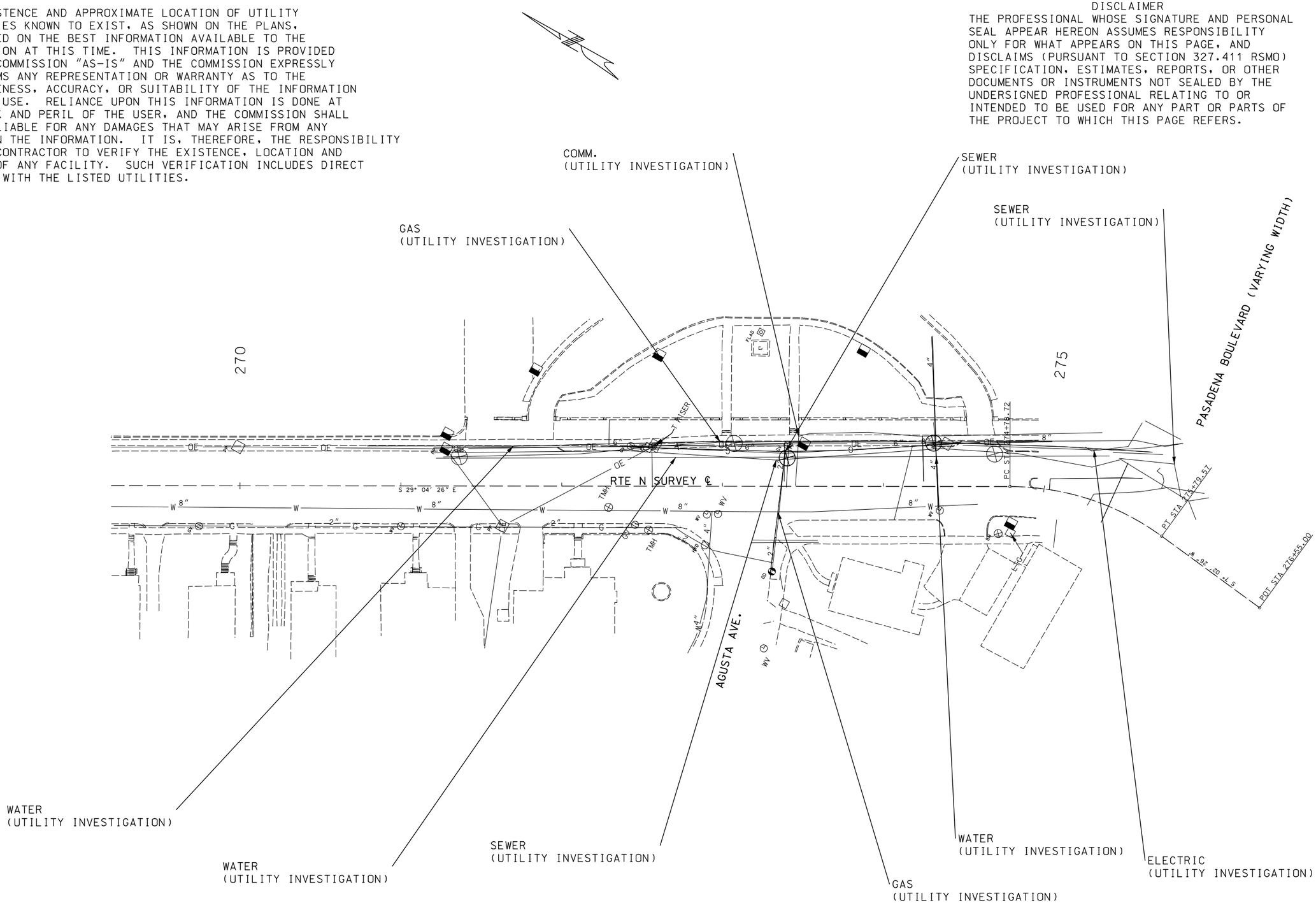

SCALE
0 30 60 90

STATE OF MISSOURI
JAMIE F. RANA
NUMBER PE-2005001034
PROFESSIONAL ENGINEER
Jamie F. Rana
01/28/2024 12:43:50 PM
JAMIE F. RANA - CIVIL
MO-PE-2005001034

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1/24/2024

ROUTE	STATE
N	MO
DISTRICT	SHEET NO.
SL	121C

COUNTY
ST. LOUIS

JOB NO.
J6S3599

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)

SPECIAL SHEET
UTILITIES
N. OF RTE. 115

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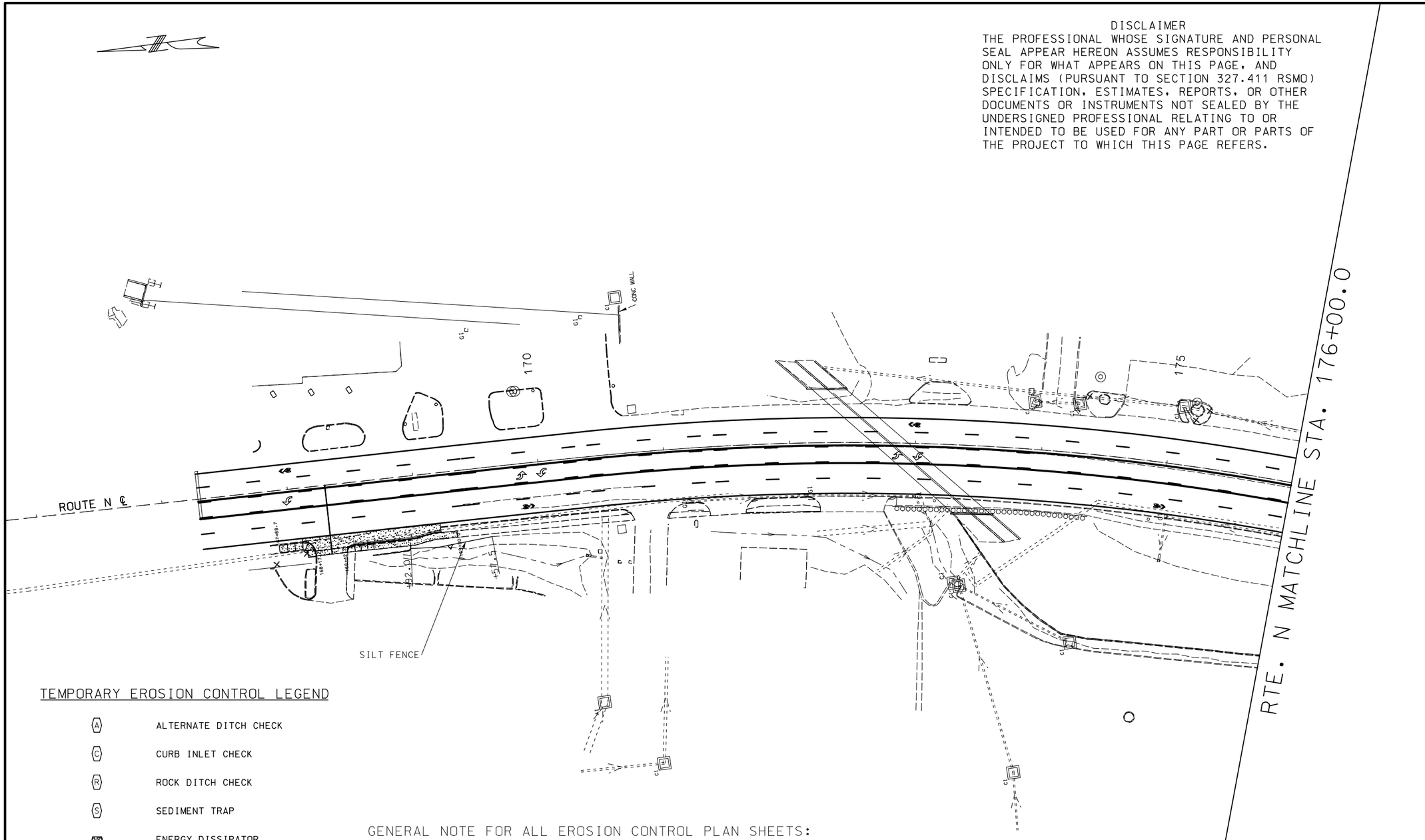

TEMPORARY EROSION CONTROL LEGEND

- ALTERNATE DITCH CHECK
- CURB INLET CHECK
- ROCK DITCH CHECK
- SEDIMENT TRAP
- ENERGY DISSIPATOR
- TEMPORARY BERM TYPE B
- TEMPORARY BERM TYPE C
- SILT FENCE
- TEMPORARY SEDIMENT BASIN
- PERMANENT SEDIMENT BASIN

GENERAL NOTE FOR ALL EROSION CONTROL PLAN SHEETS:

1. MINIMAL EROSION CONTROL ITEMS NEEDED ASSUMING CONTRACTOR REMOVES EXIST. SIDEWALK/ENTRANCES AND THEN AGGREGATE BASE INSTALLED IMMEDIATELY AFTER. ADDITIONAL QUANTITIES SHALL BE INSTALLED IF CONTRACTOR VARIES FROM THIS METHOD.
2. CONTRACTOR SHALL NOT EXPOSE MORE THAN 1 AC. AT ANY ONE TIME.
3. 2 MAIN STORMWATER OUTLETS FOR THIS PROJECT:
   A. BALL CREEK (AREAS/INLETS NORTH OF BERMUDA INTERSECTION
   B. MSD PIPE SYSTEMS SOUTH OF BERMUDA INTERSECTION

SCALE
0 40 80 120

STATE OF MISSOURI
JAMIE F. RANA
NUMBER PE-2005001034
PROFESSIONAL ENGINEER
Jamie F. Rana
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JAMIE F. RANA - CIVIL
MO-PE-2005001034

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ROUTE	STATE
N	MO
DISTRICT	SHEET NO.
SL	122

COUNTY
ST. LOUIS

JOB NO.
J6S3599

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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)

EROSION CONTROL PLANS

TEMPORARY EROSION CONTROL LEGEND

- (A) ALTERNATE DITCH CHECK
- (C) CURB INLET CHECK
- (R) ROCK DITCH CHECK
- (S) SEDIMENT TRAP
- ENERGY DISSIPATOR
- TEMPORARY BERM TYPE B
- TEMPORARY BERM TYPE C
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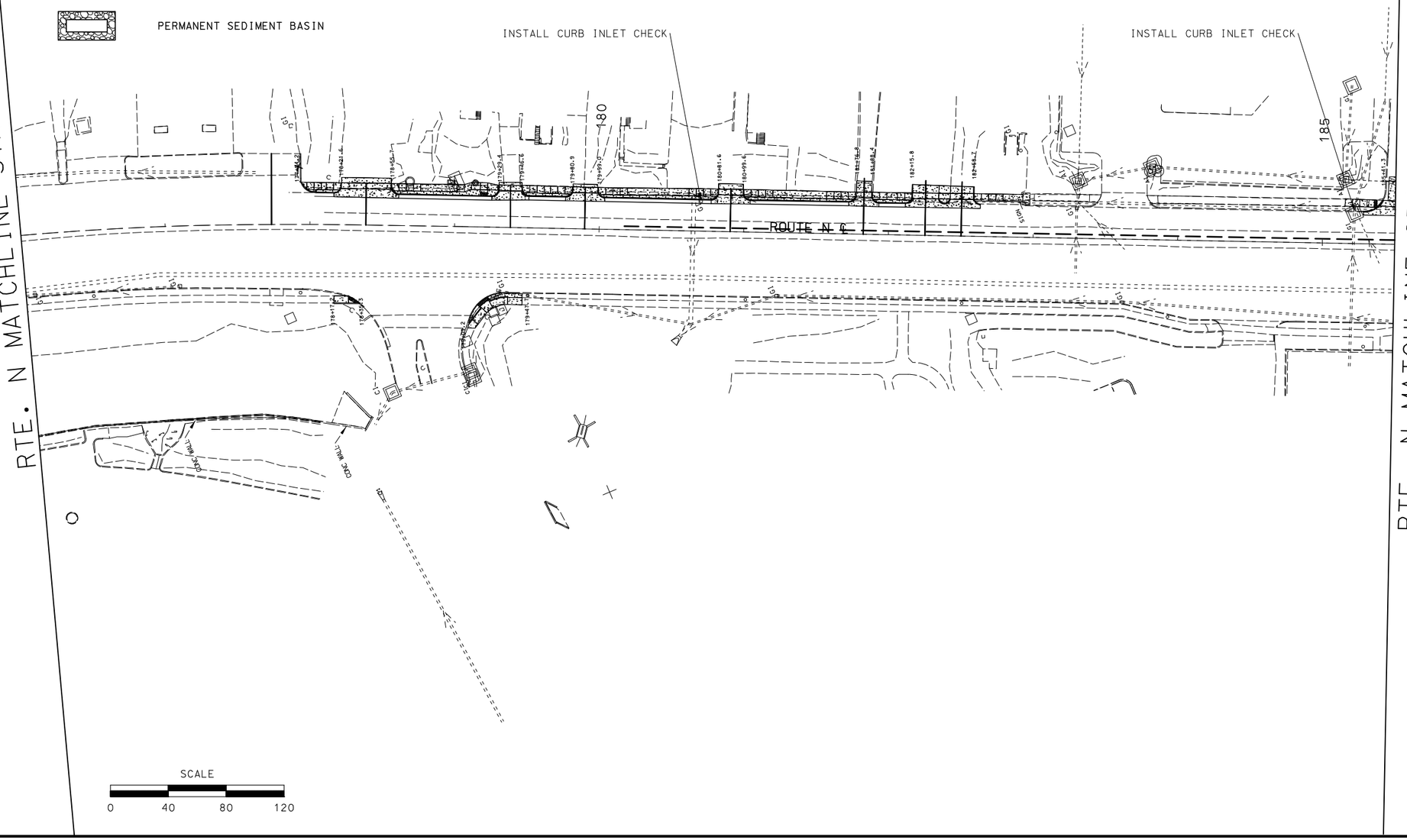

SCALE

0 40 80 120

STATE OF MISSOURI
JAMIE F. RANA
NUMBER PE-2005001034
PROFESSIONAL ENGINEER
Jamie F. Rana
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JAMIE.F.RANA-CIVIL
MO-PE-2005001034

DATE PREPARED
1/24/2024

ROUTE	STATE
N	MO
DISTRICT	SHEET NO.
SL	123

COUNTY
ST. LOUIS

JOB NO.
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JEFFERSON CITY, MO 65102
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EROSION CONTROL PLANS

TEMPORARY EROSION CONTROL LEGEND

- (A) ALTERNATE DITCH CHECK
- (C) CURB INLET CHECK
- (R) ROCK DITCH CHECK
- (S) SEDIMENT TRAP
- ENERGY DISSIPATOR
- TEMPORARY BERM TYPE B
- TEMPORARY BERM TYPE C
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RTE. N MATCHLINE STA. 185+50.0

RTE. N MATCHLINE STA. 195+50.0

INSTALL CURB INLET CHECK

ROUTE N ℄

INSTALL CURB INLET CHECK

SCALE

0 40 80 120

STATE OF MISSOURI
JAMIE F. RANA
NUMBER PE-2005001034
PROFESSIONAL ENGINEER

Jamie F. Rana
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JAMIE F. RANA - CIVIL
MO-PE-2005001034

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N	MO
DISTRICT	SHEET NO.
SL	124

COUNTY
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EROSION CONTROL PLANS

TEMPORARY EROSION CONTROL LEGEND

- (A) ALTERNATE DITCH CHECK
- (C) CURB INLET CHECK
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- ENERGY DISSIPATOR
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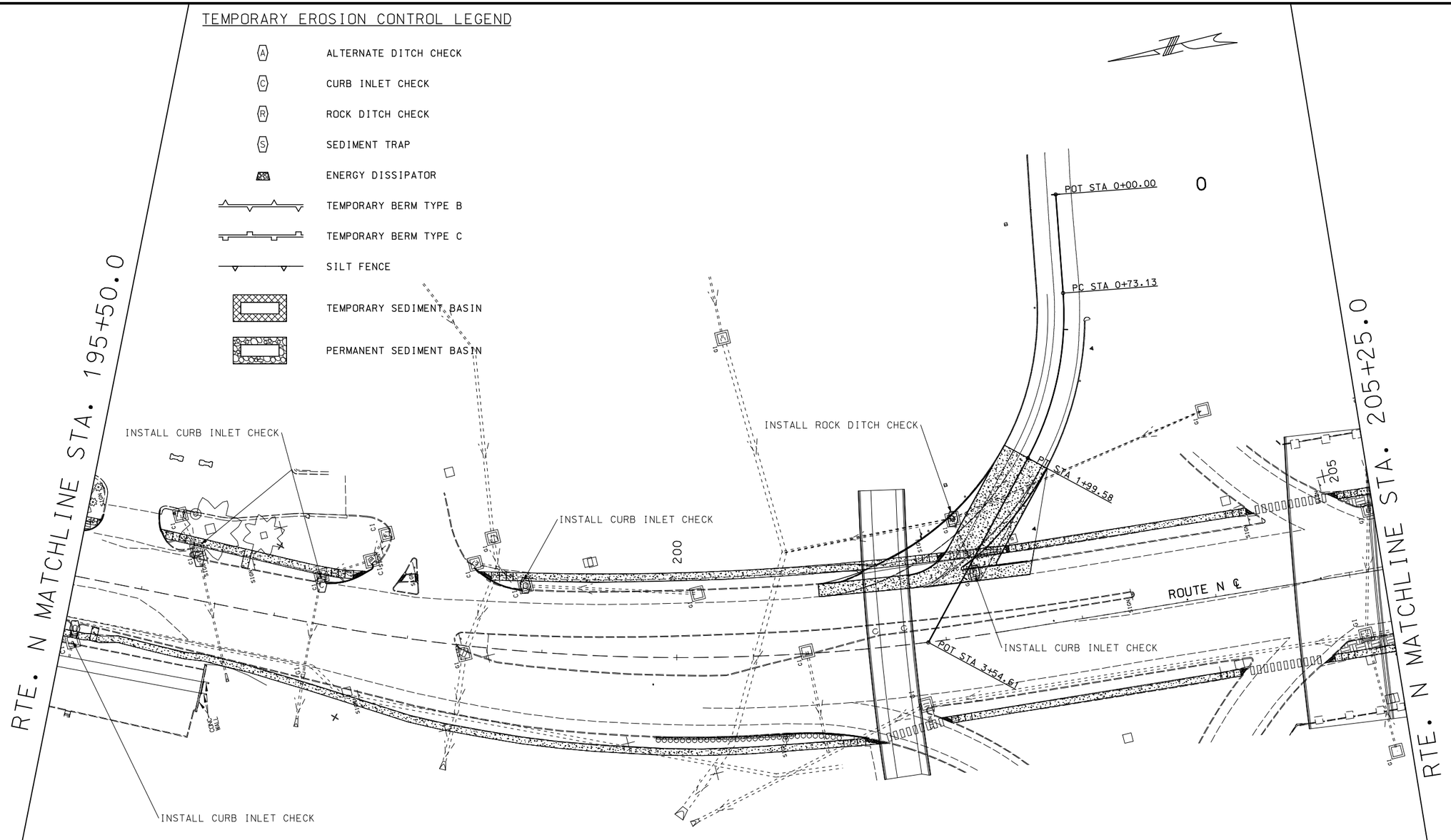

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STATE OF MISSOURI
JAMIE F. RANA
NUMBER PE-2005001034
PROFESSIONAL ENGINEER

Jamie F. Rana
01/27/2024 3:00:26 PM
JAMIE F. RANA - CIVIL
MO-PE-2005001034

DATE PREPARED
1/24/2024

ROUTE	STATE
N	MO
DISTRICT	SHEET NO.
SL	125

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EROSION CONTROL PLANS

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TEMPORARY EROSION CONTROL LEGEND

- (A) ALTERNATE DITCH CHECK
- (C) CURB INLET CHECK
- (R) ROCK DITCH CHECK
- (S) SEDIMENT TRAP
- ENERGY DISSIPATOR
- TEMPORARY BERM TYPE B
- TEMPORARY BERM TYPE C
- SILT FENCE
- TEMPORARY SEDIMENT BASIN
- PERMANENT SEDIMENT BASIN

RTE. N MATCHLINE STA. 205+25.0

RTE. N MATCHLINE STA. 214+00.0

INSTALL CURB INLET CHECK

INSTALL ROCK DITCH CHECK IN SWALE ON BACK SIDE OF SIDEWALK

INSTALL SILT FENCE ALONG NEW RAMP

ROUTE N ℄

POT STA 3+11.61

PT STA 2+08.71

PT STA 0+52.61

POT STA 0+00.00

497.3

69.0

210

SCALE 0
0 40 80 120

STATE OF MISSOURI
JAMIE F. RANA
NUMBER PE-2005001034
PROFESSIONAL ENGINEER
Jamie F. Rana
01/27/2024 3:00:53 PM
JAMIE F. RANA - CIVIL
MO-PE-2005001034

DATE PREPARED
1/24/2024

ROUTE	STATE
N	MO
DISTRICT	SHEET NO.
SL	126

COUNTY
ST. LOUIS

JOB NO.
J6S3599

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)

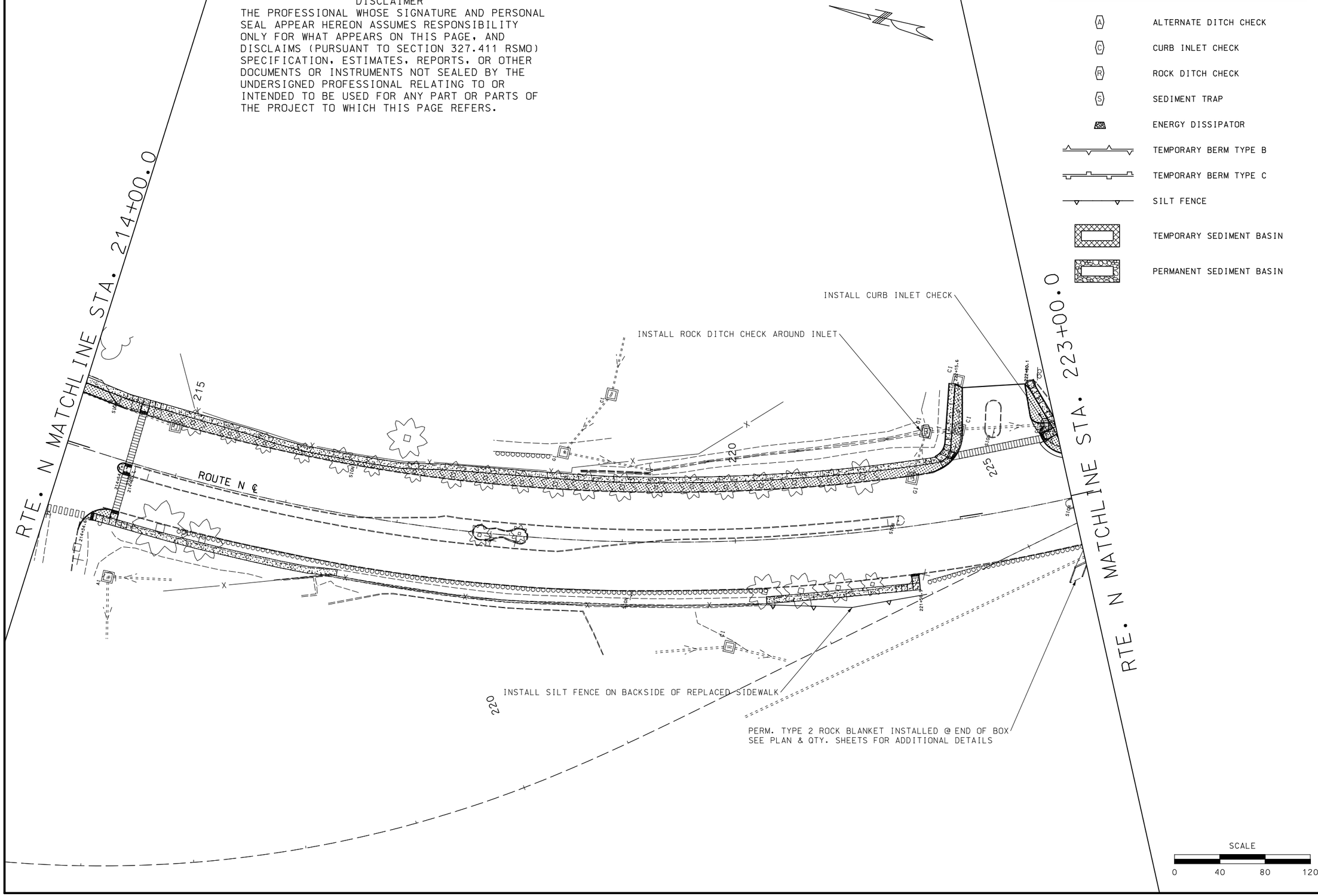
EROSION CONTROL PLANS

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.

TEMPORARY EROSION CONTROL LEGEND

- ALTERNATE DITCH CHECK
- CURB INLET CHECK
- ROCK DITCH CHECK
- SEDIMENT TRAP
- ENERGY DISSIPATOR
- TEMPORARY BERM TYPE B
- TEMPORARY BERM TYPE C
- SILT FENCE
- TEMPORARY SEDIMENT BASIN
- PERMANENT SEDIMENT BASIN



STATE OF MISSOURI
JAMIE F. RANA
NUMBER PE-2005001034
PROFESSIONAL ENGINEER
Jamie F. Rana
01/27/2024 3:01:13 PM
JAMIE F. RANA - CIVIL
MO-PE-2005001034

DATE PREPARED: 1/24/2024

ROUTE	STATE
N	MO
DISTRICT	SHEET NO.
SL	127

COUNTY: ST. LOUIS

JOB NO.: J6S3599

CONTRACT ID.:

PROJECT NO.:

BRIDGE NO.:

DESCRIPTION	DATE

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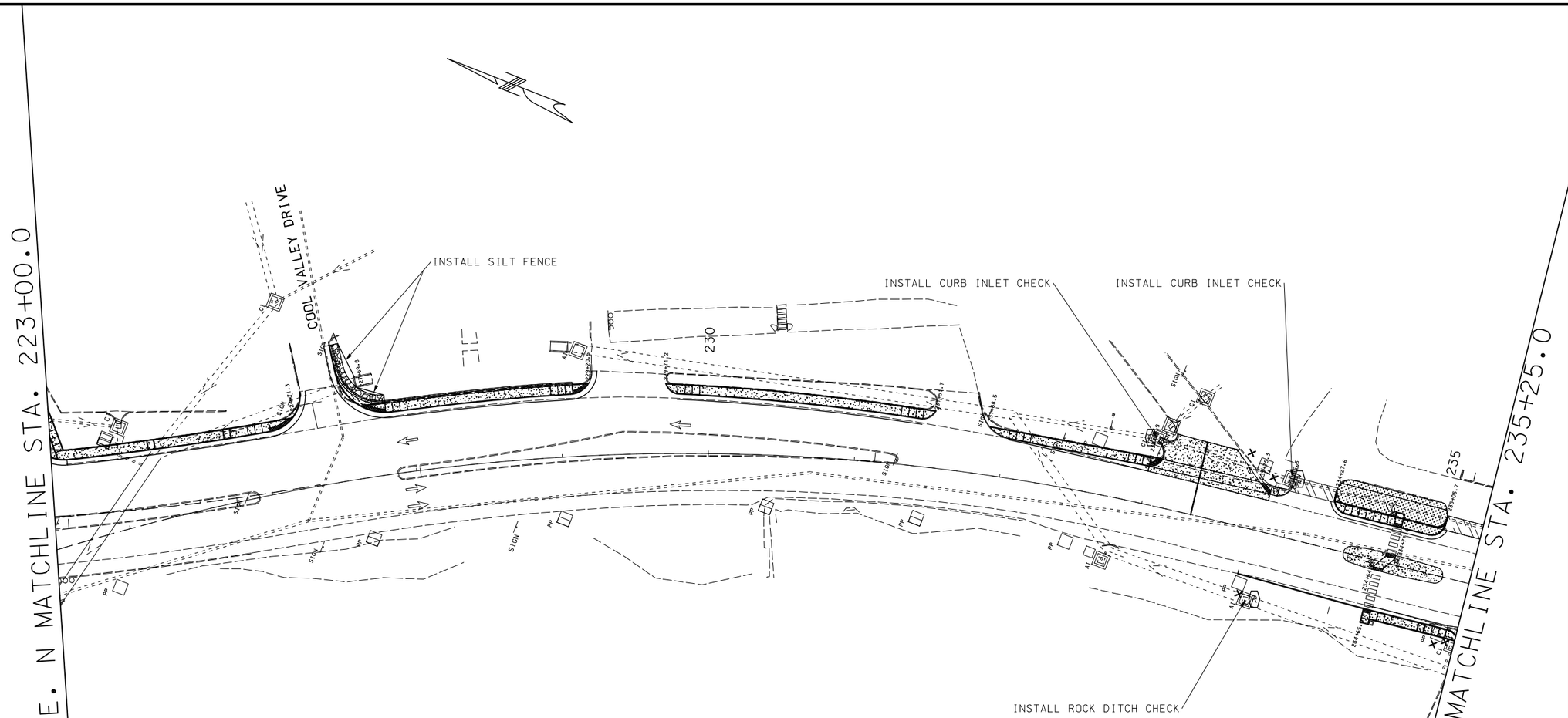
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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

EROSION CONTROL PLANS



TEMPORARY EROSION CONTROL LEGEND

- (A) ALTERNATE DITCH CHECK
- (C) CURB INLET CHECK
- (R) ROCK DITCH CHECK
- (S) SEDIMENT TRAP
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- TEMPORARY BERM TYPE C
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- TEMPORARY SEDIMENT BASIN
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SCALE

0 40 80 120

STATE OF MISSOURI
JAMIE F. RANA
NUMBER PE-2005001034
PROFESSIONAL ENGINEER

Jamie F. Rana
01/27/2024 3:01:41 PM
JAMIE F. RANA - CIVIL
MO-PE-2005001034

DATE PREPARED
1/24/2024

ROUTE	STATE
N	MO
DISTRICT	SHEET NO.
SL	128

COUNTY
ST. LOUIS

JOB NO.
J6S3599

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DATE	DESCRIPTION

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

EROSION CONTROL PLAN

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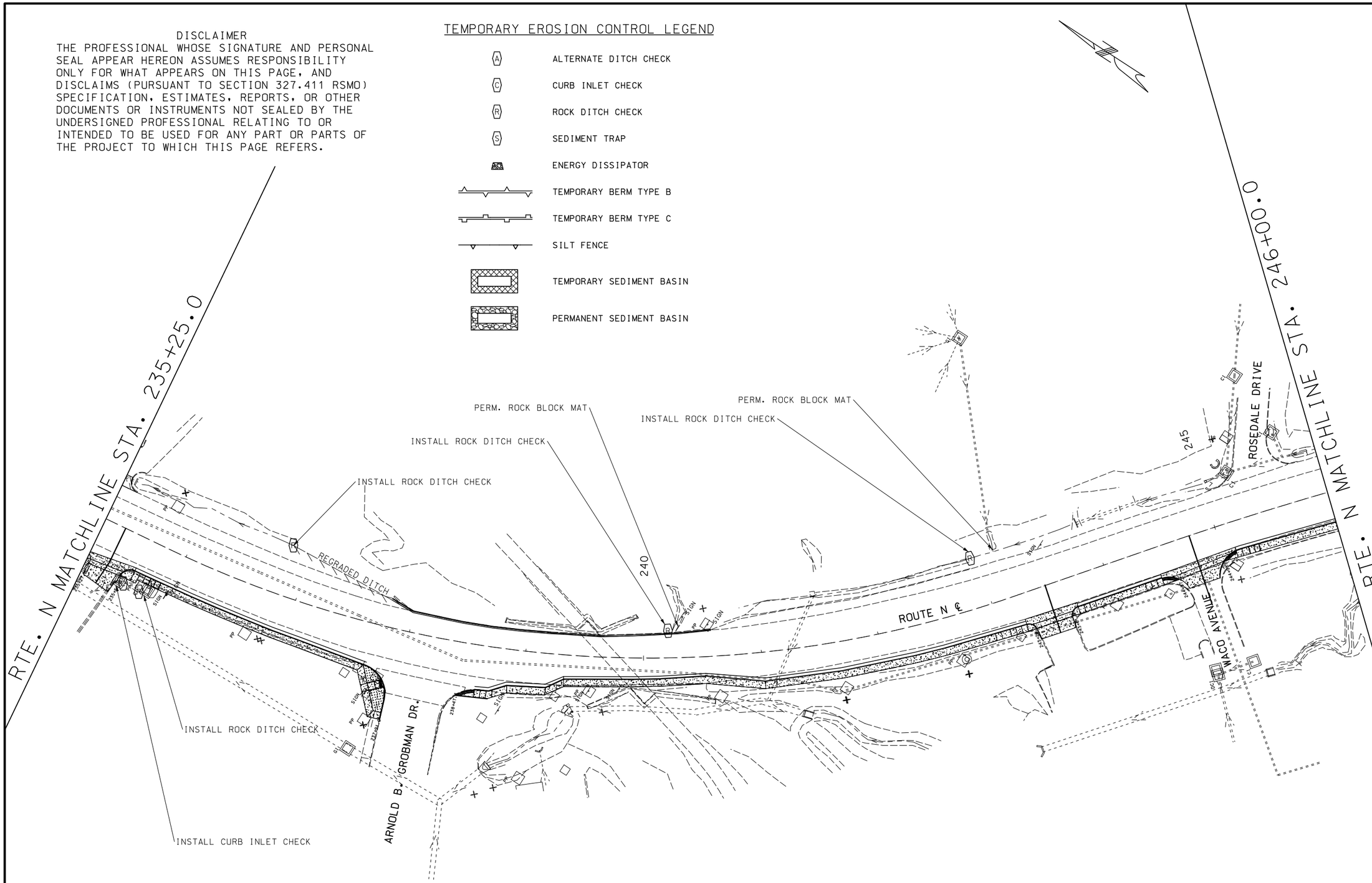
- TEMPORARY BERM TYPE C
- SILT FENCE
- TEMPORARY SEDIMENT BASIN
- PERMANENT SEDIMENT BASIN



STATE OF MISSOURI
JAMIE F. RANA
NUMBER PE-2005001034
PROFESSIONAL ENGINEER
Jamie F. Rana
01/27/2024 3:02:03 PM
JAMIE F. RANA - CIVIL
MO-PE-2005001034

DATE PREPARED
1/24/2024

ROUTE	STATE
N	MO
DISTRICT	SHEET NO.
SL	129

COUNTY
ST. LOUIS

JOB NO.
J6S3599

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)

EROSION CONTROL PLAN

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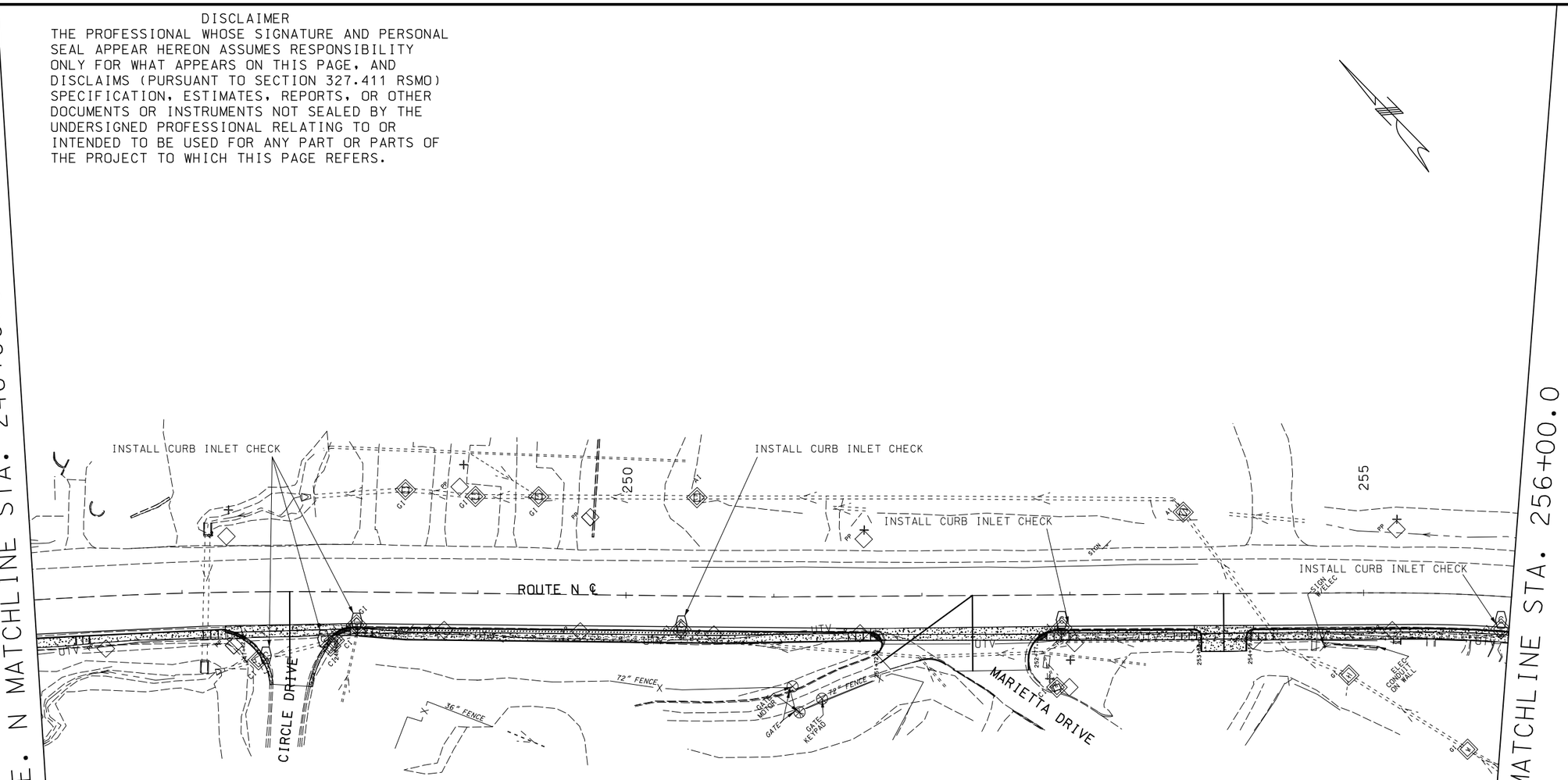

TEMPORARY EROSION CONTROL LEGEND

- (A) ALTERNATE DITCH CHECK
- (C) CURB INLET CHECK
- (R) ROCK DITCH CHECK
- (S) SEDIMENT TRAP
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- TEMPORARY BERM TYPE B
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- TEMPORARY SEDIMENT BASIN
- PERMANENT SEDIMENT BASIN

SCALE

0 40 80 120

STATE OF MISSOURI
JAMIE F. RANA
NUMBER PE-2005001034
PROFESSIONAL ENGINEER

Jamie F. Rana
01/27/2024 3:02:25 PM
JAMIE F. RANA - CIVIL
MO-PE-2005001034

DATE PREPARED
1/24/2024

ROUTE	STATE
N	MO
DISTRICT	SHEET NO.
SL	130

COUNTY
ST. LOUIS

JOB NO.
J6S3599

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)

EROSION CONTROL PLAN

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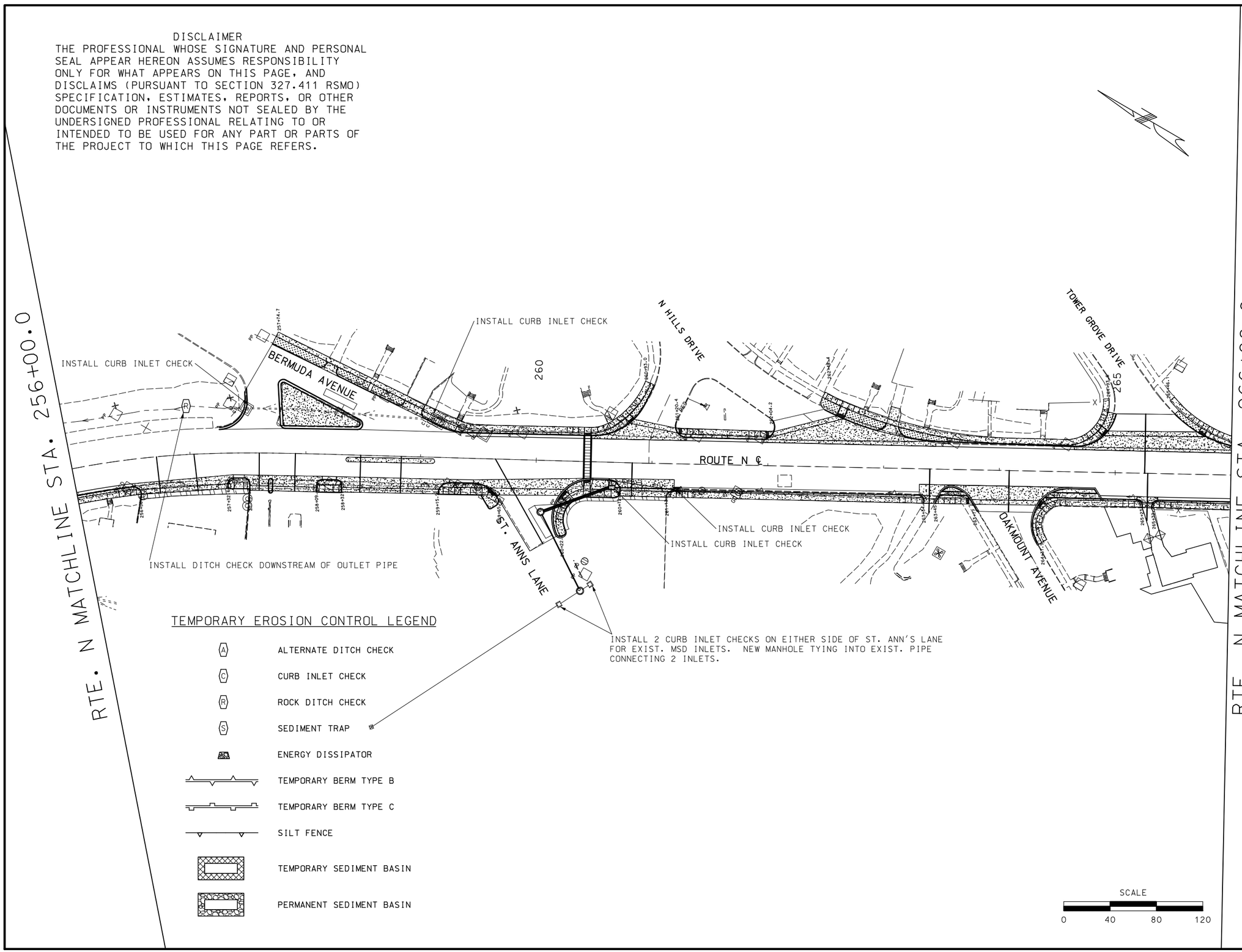

STATE OF MISSOURI
JAMIE F. RANA
NUMBER PE-2005001034
PROFESSIONAL ENGINEER
Jamie F. Rana
01/27/2024 3:02:53 PM
JAMIE F. RANA - CIVIL
MO-PE-2005001034

DATE PREPARED
1/24/2024

ROUTE	STATE
N	MO
DISTRICT	SHEET NO.
SL	131

COUNTY
ST. LOUIS

JOB NO.
J6S3599

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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EROSION CONTROL PLAN

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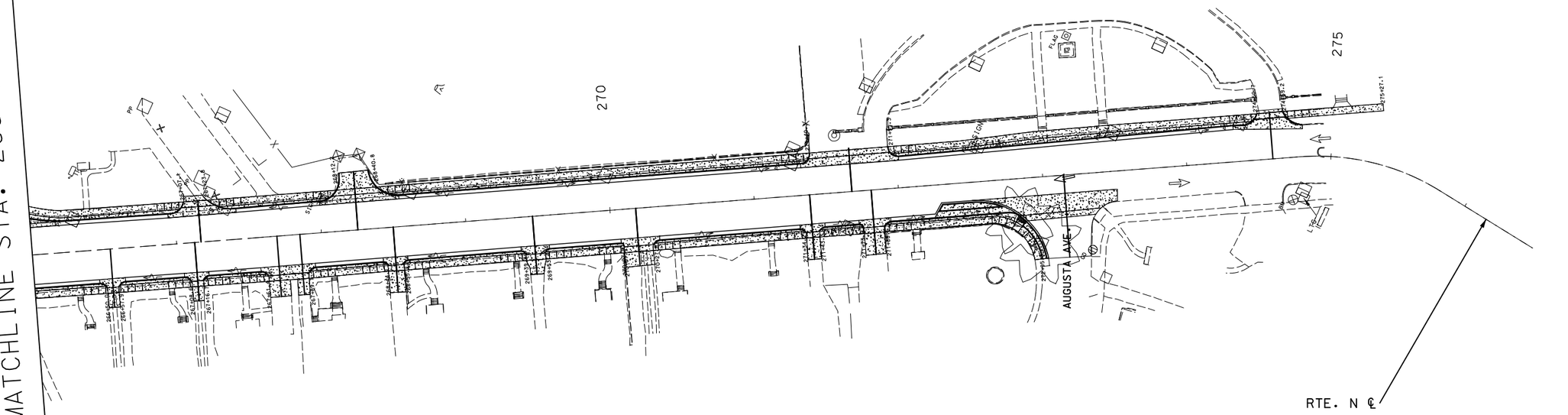
NOTE: INSTALL INLET CHECKS (2) DOWN BY RTE. 115 ROUND-ABOUT



TEMPORARY EROSION CONTROL LEGEND

- (A) ALTERNATE DITCH CHECK
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- (R) ROCK DITCH CHECK
- (S) SEDIMENT TRAP
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- TEMPORARY BERM TYPE B
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- SILT FENCE
- TEMPORARY SEDIMENT BASIN
- PERMANENT SEDIMENT BASIN

SCALE
0 40 80 120

STATE OF MISSOURI
JAMIE F. RANA
NUMBER PE-2005001034
PROFESSIONAL ENGINEER
Jamie F. Rana
01/27/2024 3:03:30 PM
JAMIE F. RANA - CIVIL
MO-PE-2005001034

DATE PREPARED
1/24/2024

ROUTE	STATE
N	MO
DISTRICT	SHEET NO.
SL	132

COUNTY
ST. LOUIS

JOB NO.
J6S3599

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)

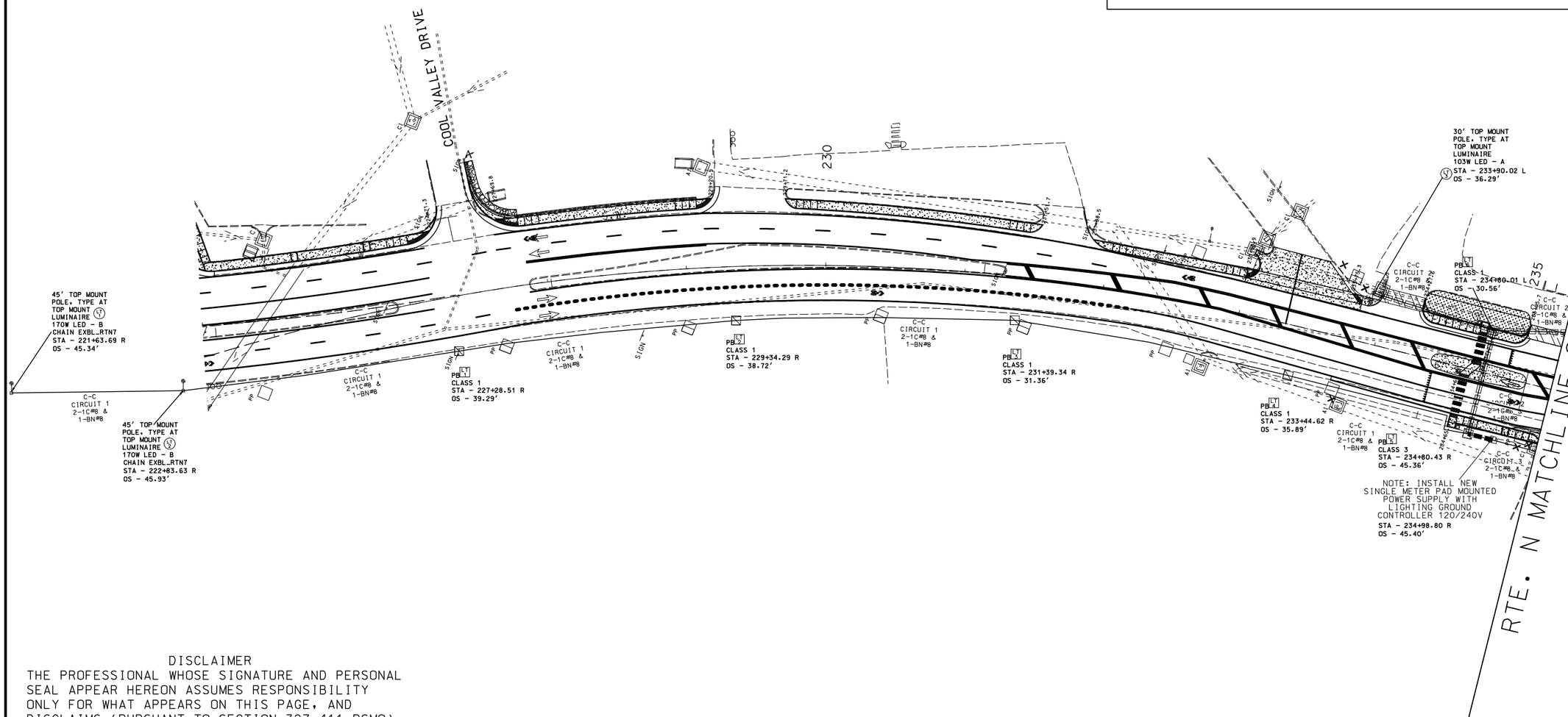
EROSION CONTROL PLAN

TRAFFIC SIGNALS LEGEND

- CONTROLLER
- CONTROLLER (EXISTING)
- CONTROLLER W/ UNINTERRUPTIBLE POWER SUPPLY
- POWER SOURCE
- VIDEO DETECTOR
- PREFORMED PULL BOX CLASS 2
- PREFORMED PULL BOX CLASS 3
- ITS PREFORMED ITS PULL BOX CLASS 5
- CONDUIT PUSHED
- CONDUIT TRENCHED
- DECTECTION ZONE OPTIONAL DECTECTION
- MAST ARM TYPE A BASE
- SIGNAL HEAD (STANDARD)

LIGHTING LEGEND

- CONTROLLER, LIGHTING
- CONTROLLER, LIGHTING (EXISTING)
- POWER SOURCE
- PULL BOX CONCRETE TYPE 1
- PULL BOX PREFORMED TYPE 1
- CONDUIT, RIGID (TRENCH)
- CONDUIT, RIGID (MEDIAN)
- CONDUIT, RIGID (EXISTING)
- 170 W LED - A
- PULL BOX (EXISTING)
- PULL BOX CONCRETE TYPE 2
- PULL BOX PREFORMED TYPE 2
- CCTV CAMERA
- CONDUIT, RIGID (PUSHED)
- CABLE-CONDUIT (EXISTING)
- CABLE-CONDUIT



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SCALE

0 40 80 120

STATE OF MISSOURI
JAMIE F. RANA
NUMBER PE-2005001034
PROFESSIONAL ENGINEER
Jami F. Rana
01/29/2024 1:06:55 PM
JAMIE F. RANA - CIVIL
MO-PE-2005001034

DATE PREPARED
1/24/2024

ROUTE	STATE
N	MO
DISTRICT	SHEET NO.
SL	133

COUNTY
ST. LOUIS

JOB NO.
J6S3599

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)

LIGHTING PLANS

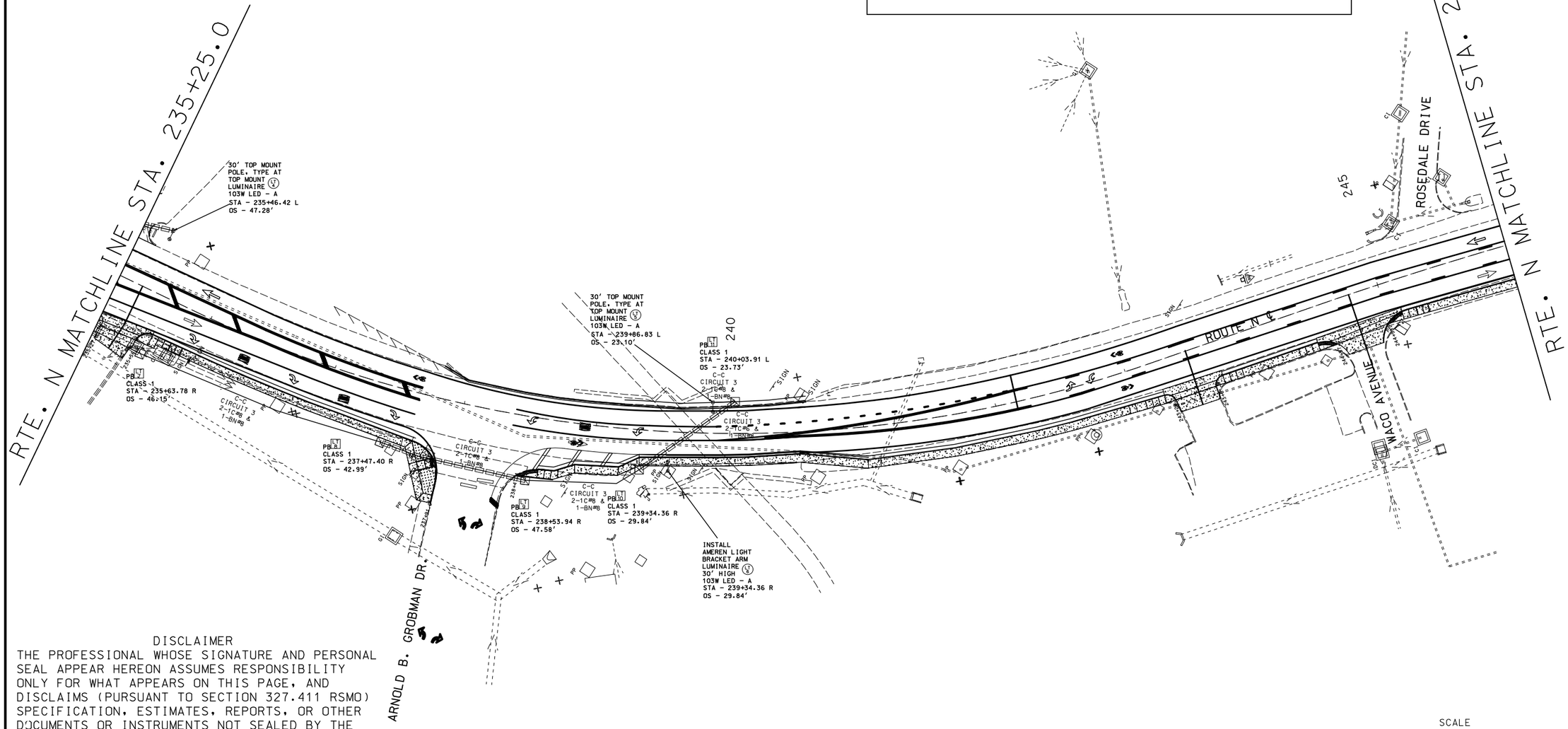
IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

TRAFFIC SIGNALS LEGEND

- CONTROLLER
- CONTROLLER (EXISTING)
- CONTROLLER W/ UNINTERRUPTIBLE POWER SUPPLY
- POWER SOURCE
- VIDEO DETECTOR
- PREFORMED PULL BOX CLASS 2
- PREFORMED PULL BOX CLASS 3
- ITS PREFORMED ITS PULL BOX CLASS 5
- CONDUIT PUSHED
- CONDUIT TRENCHED
- DECTECTION ZONE — OPTIONAL DECTECTION
- MAST ARM TYPE A BASE
- SIGNAL HEAD (STANDARD)

LIGHTING LEGEND

- CONTROLLER, LIGHTING
- CONTROLLER, LIGHTING (EXISTING)
- POWER SOURCE
- PULL BOX CONCRETE TYPE 1
- PULL BOX PREFORMED TYPE 1
- CONDUIT, RIGID (TRENCH)
- CONDUIT, RIGID (MEDIAN)
- CONDUIT, RIGID (EXISTING)
- 170 W LED - A
- PULL BOX (EXISTING)
- PULL BOX CONCRETE TYPE 2
- PULL BOX PREFORMED TYPE 2
- CCTV CAMERA
- CONDUIT, RIGID (PUSHED)
- CABLE-CONDUIT (EXISTING)
- CABLE-CONDUIT



SCALE

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STATE OF MISSOURI
JAMIE F. RANA
NUMBER PE-2005001034
PROFESSIONAL ENGINEER
Jamie F. Rana
01/28/2024 1:07:16 PM
JAMIE F. RANA - CIVIL
MO-PE-2005001034

DATE PREPARED: 1/24/2024

ROUTE	STATE
N	MO
DISTRICT	SHEET NO.
SL	134

COUNTY: ST. LOUIS

JOB NO.: J6S3599

CONTRACT ID.:

PROJECT NO.:

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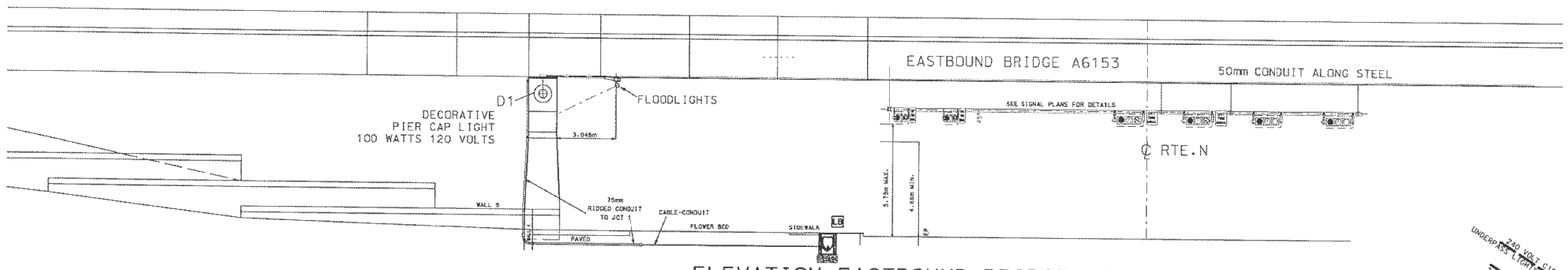
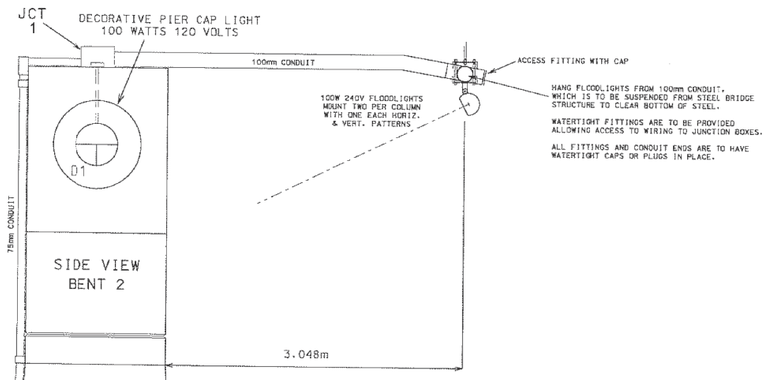
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

LIGHTING PLANS

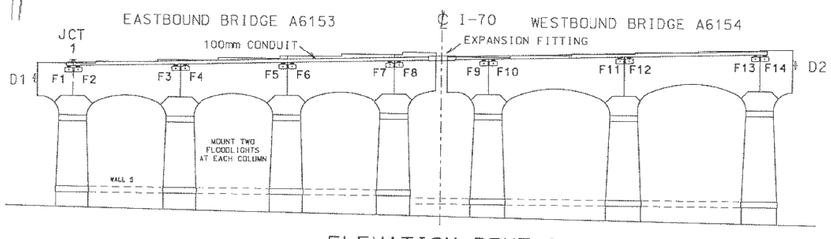


ELEVATION EASTBOUND BRIDGE AT BENT 2

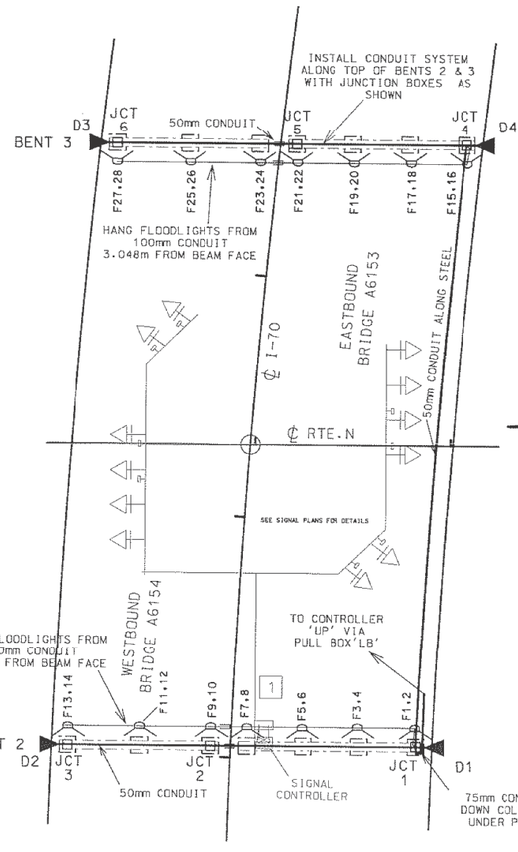
SEE BRIDGE PLANS & AESTHETIC ENHANCEMENT SHEETS FOR DETAILS OF CONDUIT SYSTEM ON BRIDGE, LUMINAIRE & FLOODLIGHT HANGERS, FLOODLIGHT SPECS.& DECORATIVE POLE/LUMINAIRE DETAILS



COLUMN FLOODLIGHT MOUNTING

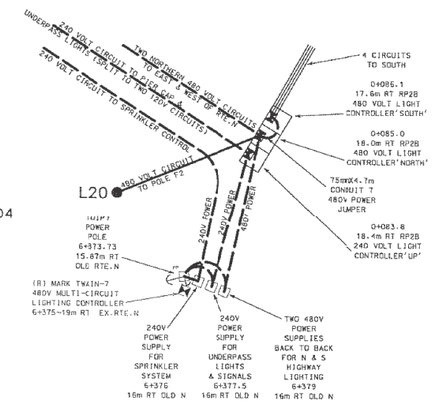


ELEVATION BENT 2
(BENT 3 SIMILAR)



PLAN OF UNDER-BRIDGE WIRING

FINAL PLANS



'CONTROLLER CORNER' DETAIL

● L1 = 9m DECORATIVE POLE & 400W 480V Metal Halide LUMINAIRE (UMSL)

= FLOODLIGHT 400W 240V Metal Halide (LIGHTS COLUMN FACE)

◀ D1 = 100W 120V Metal Halide DECORATIVE (UMSL) PIER CAP LIGHT

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FOR INFORMATIONAL PURPOSES ONLY

NOT TO SCALE

STATE OF MISSOURI
JAMIE F. RANA
NUMBER PE-2005001034
PROFESSIONAL ENGINEER
Jamie F. Rana
01/28/2024 1:07:41 PM
JAMIE F. RANA - CIVIL
MO-PE-2005001034

DATE PREPARED
1/24/2024

ROUTE	STATE
N	MO
DISTRICT	SHEET NO.
SL	135

COUNTY
ST. LOUIS

JOB NO.
J6S3599

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DATE	DESCRIPTION

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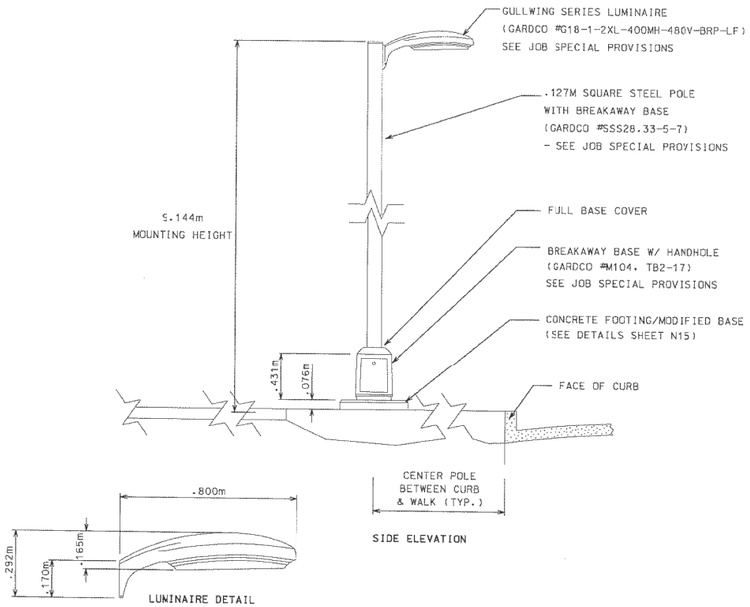
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

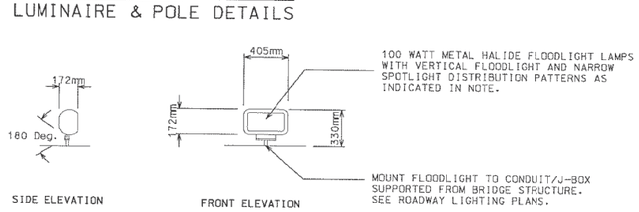
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

SPECIAL SHEET
II-70 LIGHTING DETAILS

FOR INFORMATIONAL PURPOSES ONLY



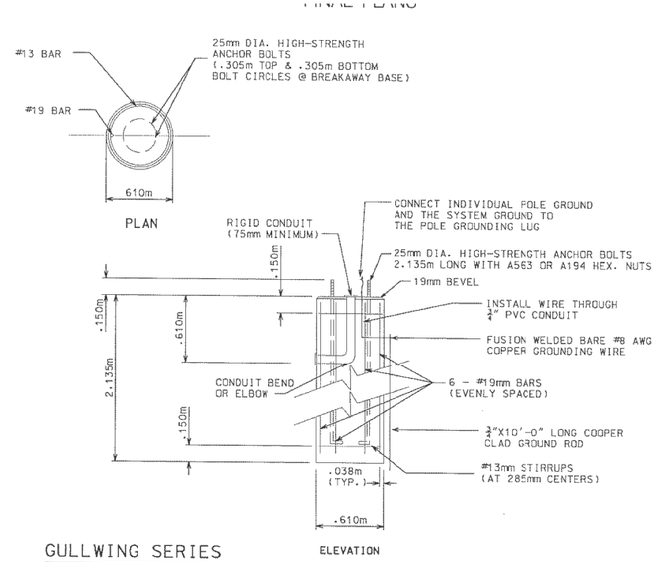
GULLWING SERIES
LUMINAIRE & POLE DETAILS



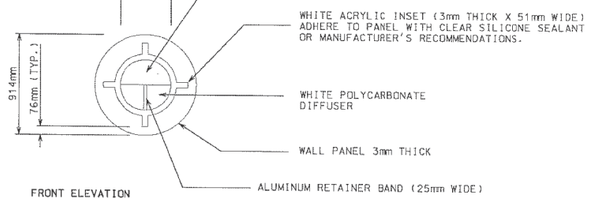
COLUMN FLOODLIGHT DETAILS
BRIDGE A6153 & A6154

NOTE: PROVIDE TWO FLOODLIGHTS PER COLUMN.
ONE LIGHT WITH VERTICAL FLOODLIGHT (VFL)
DISTRIBUTION PATTERN, AND ONE WITH NARROW
SPOTLIGHT (NPS) DISTRIBUTION PATTERN PER COLUMN.
INITIAL AIMING POINT FOR VFL FIXTURES TO BE 2.5 METERS
ABOVE GRADE AT CENTER LINE OF EACH COLUMN.
INITIAL AIMING POINT FOR NSP FIXTURES TO BE .61 METERS
ABOVE GRADE AT THE CENTERLINE OF EACH COLUMN.
FIELD ADJUST AIMING TO PROVIDE OPTIMAL AND EVEN
DISTRIBUTION OF LIGHT PATTERN.
SEE JOB SPECIAL PROVISIONS.

LIGHTING DETAILS
SHEET N15 OF N15



GULLWING SERIES
MODIFIED BASE DETAIL



BENT CAP ORNAMENTAL LIGHT DETAIL
BRIDGE A6153 & A6154

NOTE: PROVIDE FOUR LIGHTS, ONE ON THE SOUTH END OF BENT CAP #2 & #3 FOR BRIDGE A6153,
AND ONE ON THE NORTH END OF BENT CAP #2 & #3 FOR BRIDGE A6154. SEE BRIDGE SHEET 79 OF 80
FOR MOUNTING LOCATION AS WELL AS PLAN AND SIDE ELEVATIONS OF THE FIXTURES.
SEE JOB SPECIAL PROVISIONS.

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NOT TO SCALE

STATE OF MISSOURI
JAMIE F. RANA
NUMBER PE-2005001034
PROFESSIONAL ENGINEER
Jamie F. Rana
01/28/2024 1:08:06 PM
JAMIE F. RANA - CIVIL
MO-PE-2005001034

DATE PREPARED
1/24/2024

ROUTE	STATE
N	MO
DISTRICT	SHEET NO.
SL	136

COUNTY
ST. LOUIS

JOB NO.
J6S3599

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)

LIGHTING SHEET
EXISTING DECORATIVE
LIGHTING DETAILS

COMMERCIAL

(R) EXIST. PULLBOX (SIGNAL POWER)

ABANDON IN PLACE EXIST. 6X6 SIGNAL LOOP

(R) EXIST. SIGNAL BASE, POST, 43' MAST ARM, AND ATTACHED ASSEMBLIES

(R) D3-1 SIGN

UIP EXIST. MODOT FIBER

(R) LIGHTING BRACKET ARM

UIP EXIST. MODOT FIBER PULLBOX

(R) EXIST. SIGNAL CONTROLLER CABINET AND FOUNDATION

(R) EXIST. SIGNAL AND FOUNDATION

(R) W16-7PL AND S1-1 SIGN COMBINATION

(R) EXIST. PULLBOX (SIGNAL POWER)

(R) EXIST. PEDESTRIAN SIGNAL AND FOUNDATION

(R) EXIST. POWER SUPPLY CONTROLLER

UIP DUSK TO DAWN LIGHT

(R) EXIST. 6X15 SIGNAL LOOP

COMMERCIAL

SIGN, W/ELEC

EXIST. R/W

SPEED LIMIT 30 MPH

RTE. N (FLORISSANT ROAD) SURVEY ℄

CS STA 1705.46

EW STA 1705.46

NB RTE 270

M/SHUTTLE

180

NEXT SIGNAL 1200 FEET

NEXT SIGNAL 1000 FEET

0.01%

DND

MCI

CONC APRON

(R) EXIST. SIGNAL BASE, POST, 20' MAST ARM, AND ATTACHED ASSEMBLIES

EXISTING PERMENANT DRAINAGE EASEMENT

CONC WALL

SIG POST

SIG LOOP

WINDSTREAM

(R) EXIST. PULLBOX (SIGNAL POWER)

UIP EXIST. MODOT FIBER PULLBOX

GRAVEL SIDEWALK

(R) EXIST. SIGNAL BASE, POST, 38' MAST ARM, AND ATTACHED ASSEMBLIES

ABANDON IN PLACE EXIST. 6X30 SIGNAL LOOP

(R) W16-7PL AND S1-1 SIGN COMBINATION

SCHOOL

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SCALE

0 20 40 60

STATE OF MISSOURI
JAMIE F. RANA
NUMBER PE-2005001034
PROFESSIONAL ENGINEER

Jamie F. Rana
01/28/2024 7:56:14 PM
JAMIE F. RANA - CIVIL
MO-PE-2005001034

DATE PREPARED
1/24/2024

ROUTE	STATE
N	MO
DISTRICT	SHEET NO.
SL	137

COUNTY
ST LOUIS

JOB NO.
J6S3599

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)

EXISTING SIGNALS
COOL VALLEY ELEMENTARY

TRAFFIC SIGNALS LEGEND

- CONTROLLER
- CONTROLLER (EXISTING)
- JUNCTION BOX
- POWER SUPPLY
- WOOD POST
- SIGNAL HEAD (OPT LIM CONV)
- SIGNAL HEAD (OPT LIM)
- SIGNAL HEAD (PEDESTRIAN)
- SIGNAL HEAD (STANDARD)
- CCTV CAMERA
- VIDEO DETECTOR
- PUSH BUTTON DETECTOR
- PREFORMED PULL BOX TYPE 1
- PREFORMED PULL BOX TYPE 2
- CONCRETE PULL BOX TYPE 1
- CONCRETE PULL BOX TYPE 2
- ITS PULL BOX TYPE 2
- ITS PULL BOX TYPE 5
- 6 X 6 LOOP DETECTOR
- 6 X 15 LOOP DETECTOR
- 30 X 6 LOOP DETECTOR
- CONDUIT MEDIAN
- CONDUIT PUSHED
- CONDUIT BRIDGE
- CONDUIT EXISTING
- CONDUIT TRENCHED
- SPAN WIRE
- MAST ARM - TYPE A BASE
- MAST ARM - TYPE C BASE
- MAST ARM - TYPE F BASE

R10-3eL

R10-3eR

LEFT TURN YIELD ON FLASHING ARROW
R10-27a

NO TURN ON RED
R10-11a

INSTALL SIGN ON LISTED POST: (3) (5) (7) (6) (1) (1)

(8) S Florissant Rd
96"x18"

EXIST. R/W

ROUTE N SURVEY ℄

DETECTION ZONE 43
DETECTION ZONE 62
DETECTION ZONE 61
DETECTION ZONE 11
DETECTION ZONE 21
DETECTION ZONE 22

45' MAST ARM
55' MAST ARM
35' MAST ARM

COOL VALLEY ELEM.

CONC WALL

SCALE
0 20 40 60

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PROFESSIONAL ENGINEER
Jamie F. Rana
01/29/2024 7:56:56 PM
JAMIE F. RANA - CIVIL
MO-PE-2005001034

DATE PREPARED
1/24/2024

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DISTRICT	SHEET NO.
SL	138

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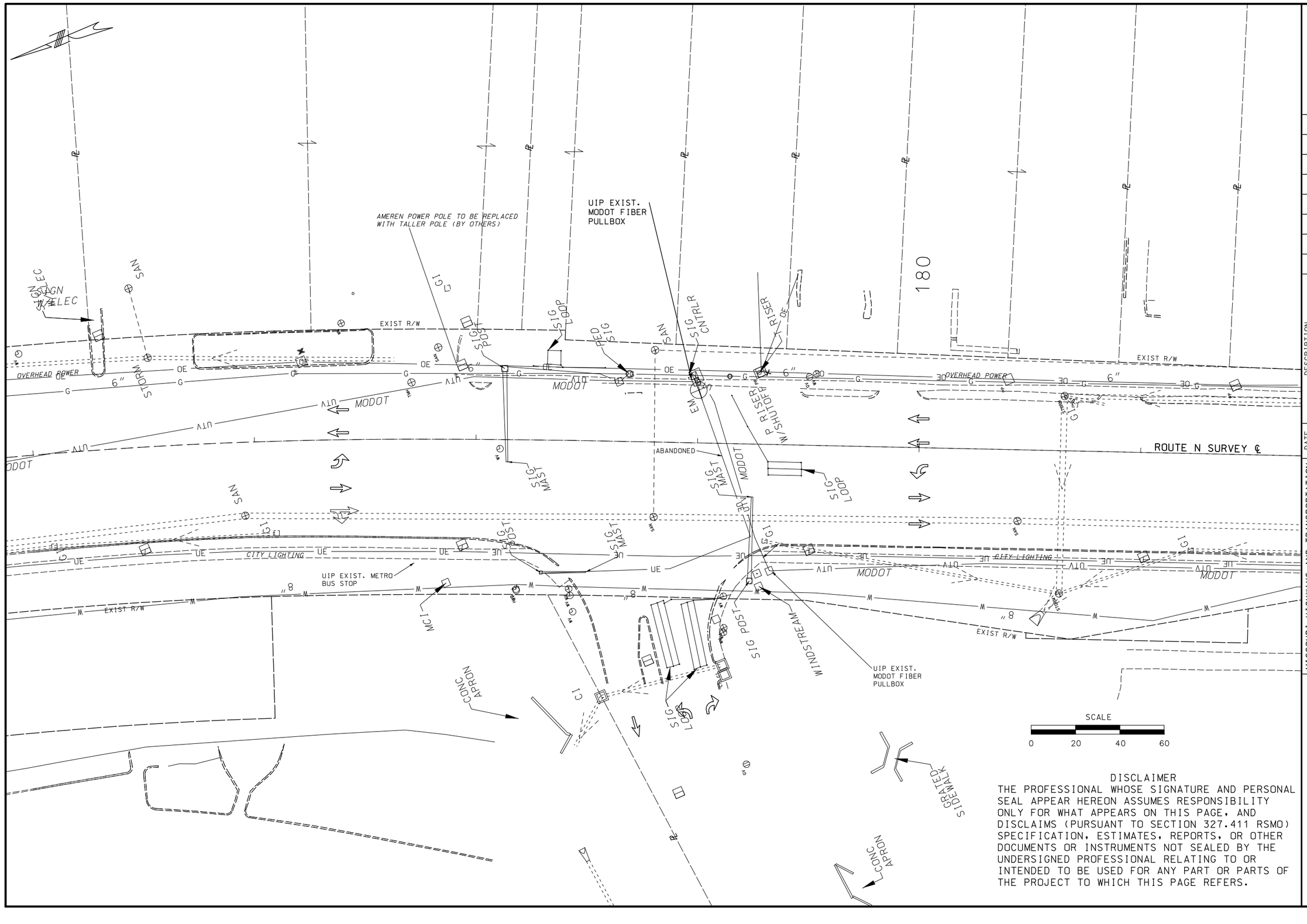
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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

PROPOSED SIGNALS
COOL VALLEY ELEMENTARY



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STATE OF MISSOURI
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NUMBER PE-2005001034
PROFESSIONAL ENGINEER

Jamie F. Rana
01/28/2024 8:02:31 PM
JAMIE F. RANA - CIVIL
MO-PE-2005001034

DATE PREPARED
1/24/2024

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MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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

EXISTING UTILITIES
COOL VALLEY ELEMENTARY

| POST NUMBER | PULL BOX NUMBER | LOCATION ROADWAY | 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 | 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 TOP MOUNT POST 8 FT. | TOP MOUNT POST 15 FT. | TYPE C & CL ARM LENGTH A | ARM LENGTH A | ARM LENGTH A | ARM LENGTH A | SIGNAL SPACING B | SIGNAL SPACING C | SIGNAL SPACING D | SIGNAL SPACING D′ | SIGN SPACING B | SIGN SPACING C | SIGN SPACING D | SIGN SPACING D′ | TYPE B & BL ARM LENGTH E | E | K | E | K | LEFT ARM E SIGNAL SPACING F | G | H | H′ | LEFT ARM E SIGN SPACING F | G | H | H′ | RIGHT ARM K SIGNAL SPACING L | M | N | N′ | RIGHT ARM K SIGN SPACING L | M | N | N′ | INCLUDED ANGLE | LUMINAIRE BRACKET ARM✳ 4 FT. | 6 FT. | 8 FT. | 10 FT. | 12 FT. | 15 FT. | TOP MOUNT LUMINAIRE BRACKET✳ | DUAL TOP MOUNT LUMINAIRE BRACKET✳ |
|---|---|---

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EFFECTIVE: 10-01-2015

CABLE CONDUIT

FROM	TO	CTR TO CTR DIST.	LOOP DETECT 1"	TRENCHED 2"	TRENCHED 3"	TRENCHED 4"	PUSHED 2"	PUSHED 3"	PUSHED 4"	MEDIAN 2"	MEDIAN 3"	MEDIAN 4"	ON STRUCTURE 2"	ON STRUCTURE 3"	ON STRUCTURE 4"	REMARKS
SOURCE	SUPPLY	12		(16)												(INCLUDED IN COST OF POWER SUPPLY)
SUPPLY	▶◀	8			12											
▶◀	ITS 1	19														SEE ITS QTY. FOR PAY ITEM
▶◀	1	10			26											2X13'
1	①	10			13											
1	2	57						55								
2	②	6			7											
2	3	37			35											
3	③	17			18											
3	4	98						96								
4	④	9			12											
4	⑤	15			16											
4	⑥	22			23											
1	5	93						91								
5	⑦	19			20											
5	⑧	10			13											
SUBTOTALS		0		(16)	195	0	0	242	0	0	0	0	0	0	0	
PAY TOTALS		0		0	195	0	0	242	0	0	0	0	0	0	0	

FROM	TO	CTR TO CTR DIST.	POWER 1c-#2	POWER 1c-#8	CONTROL 2c-#16	CONTROL 5c-#16	CONTROL 7c-#16	CONTROL 12c-#12	LIGHTING CONTROL 2c-#12	LIGHTING POLE & BRACKET 1c-#10	DETECTOR VIDEO	DETECTOR	FIBER 24 FIBER SINGLEMODE	REMARKS
SOURCE	UPS	12	(165)											3X55' (INCLUDED IN COST OF POWER SUPPLY)
UPS	▶◀	8		72										3X24'
▶◀	61	21					75							
▶◀	62	21					87							
▶◀	11	21					100							
▶◀	41	21					48							
▶◀	L1-1	68							112	60				
▶◀	L2-1	68							112	60				
▶◀	42	75					108							
▶◀	P4	124				160								
▶◀	P5	124			159									
▶◀	21	215					296							
▶◀	22	215					308							
▶◀	L3-4	215							277	60				
▶◀	P5	222				264								
▶◀	P3	222			263									
▶◀	P6	230				272								
▶◀	P7	230			271									
▶◀	P7	129				159								
▶◀	P6	129			158									
▶◀	31	121					184							
▶◀	32	121					196							
▶◀	L4-8	121							179	60				
▶◀	▶◀ EVANS	1126											1272	
SUBTOTALS			(165)	72	851	855	1402	0	680	240	0	0	1272	
PAY TOTALS			0	80	890	900	1470	0	710	250	0	0	1340	INCLUDES 5% FOR SNAKING

NOTE: SEE DIFFERENT QTY. TABULATION FOR FINAL PROJECT PAY TOTALS FOR CONDUIT & CABLE.
NOTE: ◔LX-X INDICATES LIGHT ON SIGNAL POLE. LIGHT # LISTED FIRST FOLLOWED BY WHICH POLE LIGHT IS ON.

INTERSECTION RTE. N & COOL VALLEY ELEMENTARY

D-37B

STATE OF MISSOURI
JAMIE F. RANA
NUMBER PE-2005001034
PROFESSIONAL ENGINEER
Jamie F. Rana
01/28/2024 8:03:41 PM
JAMIE F. RANA - CIVIL
MO-PE-2005001034

DATE PREPARED
1/24/2024

ROUTE	STATE
N	MO
DISTRICT	SHEET NO.
SL	141

COUNTY
ST. LOUIS

JOB NO.
J6S3599

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)

SIGNAL PLANS
RTE. N & COOL VALLEY ELEMENTARY

POWER SUPPLY

LOCATION			POWER SUPPLY ASSEMBLY	CIRCUIT BREAKER TRIP RATING*				LIGHTING CONTROL * (ON POWER SUPPLY)		SERVICE POLE	
				CONTROLLER		POWER SUPPLY DISCONNECT					
						MAIN BREAKER					
ROADWAY	STATION	OFFSET	SPECIAL UNINTERRUPTIBLE PS GROUND MOUNT	AUXILIARY BREAKER	CONT & SIGNAL LAMPS	SIGNALS	LIGHTING	120 VOLT CONTROL CABINET	MAIN BREAKER	CONTRACT FURNISH	UTILITY COMPANY
RTE. N	177+97.7	44' LT.	Type UPS (SEE SPECIAL)	15 Amps	15 Amps	100 Amps	100 Amps	15/15	100 Amps	Ci. Ft.	AMEREN MO
			Type	Amps	Amps	Amps	Amps		Amps	Ci. 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									
ROADWAY	STATION	OFFSET	NEMA	170	NEMA	170	I	II	MASTER	LOCAL		NEMA	170	FIBER		E	EV	DOUBLE	332	336S	BITRAN	WAPITI
RTE. N	178+08.5	43.6' LT.			1												1					

NEMA DETECTOR ASSIGNMENT

		CARD POSITION							
		1	2	3	4	5	6	7	8
CHANNEL	1								
	2								

TOTAL NUMBER OF DETECTOR CARDS(2-CHANNEL) = (2)

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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 ***	96 X 18		12	1
	D3-1B ***	VAR. X 18			
1	R10-3eR	9 X 15	0.9	(0.9)	(1)
3	R10-3eL	9 X 15	0.9	(2.7)	(3)
	R10-3eLR	9 X 15	0.9		
1	R10-11A	24 X 30	5.0	5.0	1
	R10-13	36 X 24	6.0		
1	R10-27A	30 X 36	7.5	7.5	1
			SUBTOTALS	24.5	3
			TOTALS	°°	°°

°° INDICATES SEE QTY. SHEETS FOR FINAL PAY TOTALS.

'X' INDICATES APPROACH TO REQUIRE OPTIONAL DETECTION AS PART OF DETECTION SYSTEM FOR INTERSECTION.

DETECTOR SCHEDULE

DETECTOR NUMBER	APPROACH	DETECTOR ZONE	TYPE					
			PRESSURE ACTIVATED PUSH BUTTON	INDUCTION LOOP (2)			VIDEO	OPTIONAL DETECTION (3)
				STANDARD	DELAY/ EXTEND *	CALL UNIT *		
21	SB RTE. N	STOP BAR						X
22	SB RTE. N	STOP BAR						
61	NB RTE. N	STOP BAR						X
62	NB RTE. N	STOP BAR						
11	NB RTE. N – LT.	STOP BAR						
41	COOL VALLEY ELEM.	STOP BAR						X
42	COOL VALLEY ELEM.	STOP BAR						
43	EAST SIDE APPR.	STOP BAR						X
	EAST SIDE APPR.	STOP BAR						
P7	WALK SOUTH (COOL VALLEY ELEM.)		1					
P6	WALK NORTH (COOL VALLEY ELEM.)		1					
P5	WALK EAST/WEST (RTE. N)		1					
P3	WALK EAST/WEST (RTE. N)		1					
			1					
		SUBTOTALS	4					1

( ) INDICATES SIGNS TO BE INCLUDED AS PART OF APS (AUDIBLE PED. PUSHBUTTON & SIGNING w/ VERBAL WALK MESSAGE).

NEMA LOAD SWITCH ASSIGNMENTS

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
Ø1 NBLT	Ø2 SB	EXC PED	Ø4 EB	N/U	Ø6 NB	N/U	N/U	NBLT FYA	N/U	N/U	N/U	Ø2 PED	N/U	N/U	N/U

(1) MoDOT "D" PLUG SHALL BE WIRED INTO ALL NEMA CONTROLLERS WITH 7C HARDWIRE INTERCONNECT.

(2) SEE ADVANCED TRAFFIC CONTROLLER JSP FOR ADDITIONAL DETAILS.

(3) SEE OPTIONAL DETECTION JSP FOR ADDITIONAL DETAILS. SIGNAL DETECTION SHALL BE PAID AS 1 PER INTERSECTION, INCLUDING ADVANCED DETECTION. THE CONTRACTOR SHALL PROVIDE AND INSTALL A VEHICLE DETECTION SYSTEM FULLY COVERING ALL 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) SEE MODOT TS2 TYPE 1 CABINET ASSEMBLY JSP FOR ADDITIONAL DETAILS.

(5) SEE 120 VOLT IP ADDRESSABLE POWER STRIP JSP FOR ADDITIONAL DETAILS.

RTE. N & COOL VALLEY ELEMENTARY

INTERSECTION

D-37C

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Jamie F. Rana
01/26/2024 8:04:03 PM
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MO-PE-2005001034

DATE PREPARED
1/24/2024

ROUTE	STATE
N	MO
DISTRICT	SHEET NO.
SL	142

COUNTY
ST. LOUIS

JOB NO.
J6S3599

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PROJECT NO.

BRIDGE NO.

DESCRIPTION

DATE

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MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

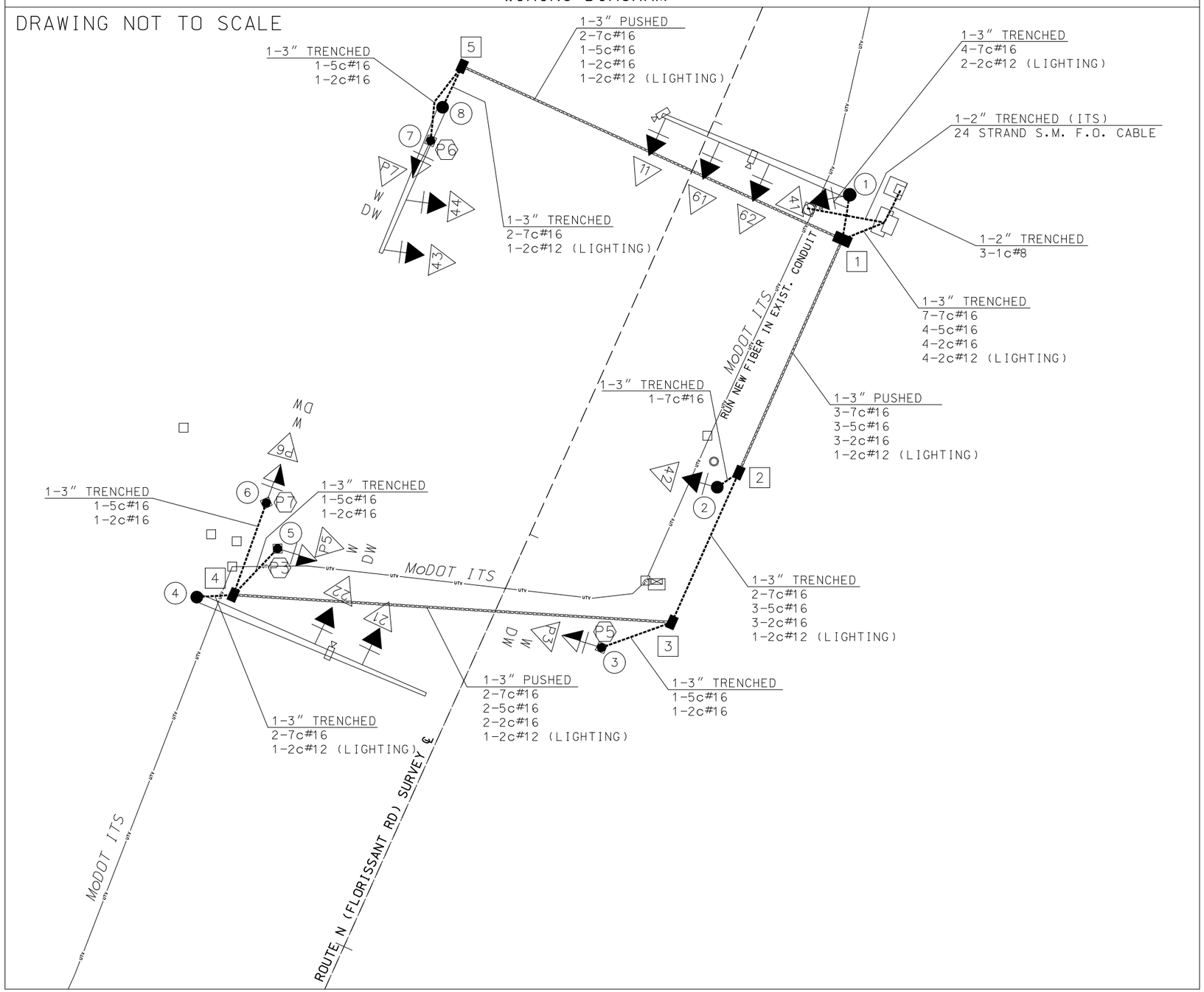
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

SIGNAL PLANS
RTE. N & COOL VALLEY
ELEMENTARY

EFFECTIVE 12-01-17

WIRING DIAGRAM

DRAWING NOT TO SCALE



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LEGEND

- 3" CONDUIT CONTAINING CABLE WITH SIZE
- CABLE
- X-Xc MULTI-CONDUCTOR CABLE #16 AWG (UNLESS OTHERWISE INDICATED)
- LIC #14 AWG DETECTOR LEAD-IN CABLE (2C TWISTED SHIELDED)
- PULL BOX WITH NUMBER
- POST WITH NUMBER
- POST WITH MAST ARM
- POST WITH MAST ARM AND LUMINAIRE
- DETECTOR WITH NUMBER
- SIGNAL HEAD WITH NUMBER
- SIGNAL CONTROLLER
- POWER SUPPLY
- LIGHTING CONTROLLER
- INTERSECTION DETECTION ZONE
- ITS PULL BOX
- LOCATION OF STATION & OFFSET
- UNINTERRUPTIBLE POWER SUPPLY & LIGHTING CONTROL STATION
- LOCATION OF STATION & OFFSET
- NEW SIGNAL CABINET
- AMEREN MISSOURI POWER POLE
- EXIST. SIGNAL CABINET

RTE. N & COOL VALLEY ELEMENTARY

INTERSECTION

D-37D

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SIGNAL PLANS
RTE. N & COOL VALLEY
ELEMENTARY

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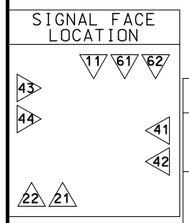
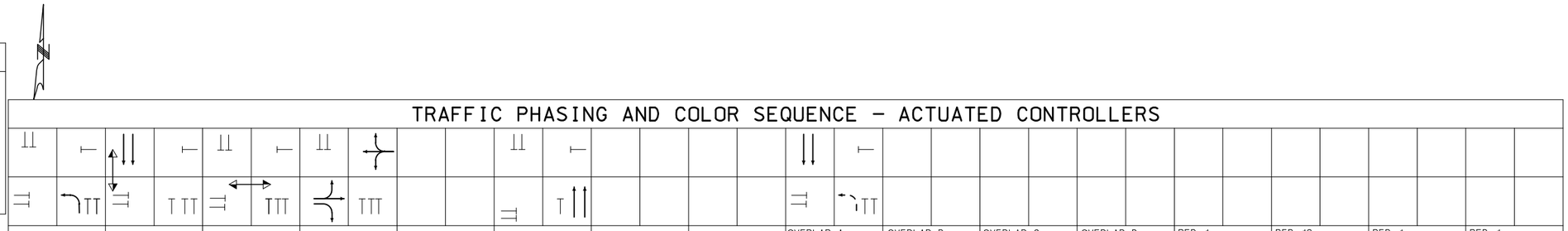
EFFECTIVE 12/01/2017

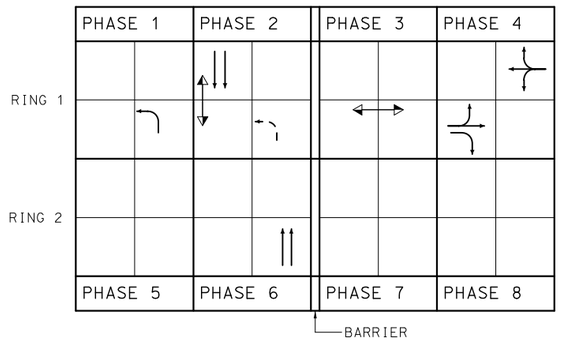
SIGNAL FACE LOCATION



TRAFFIC PHASING AND COLOR SEQUENCE – ACTUATED CONTROLLERS



	PHASE 1	PHASE 2	PHASE 3	PHASE 4	PHASE 5	PHASE 6	PHASE 7	PHASE 8	OVERLAP A	OVERLAP B	OVERLAP C	OVERLAP D	PED Φ OVERLAP	PED Φ2 OVERLAP	PED Φ OVERLAP	PED Φ OVERLAP
FACE NUMBERS	11	21 22	P3 P5	41 42 43		61 62			11					P7 P6		
SIGNAL INDICATIONS R	R	R R	DW DW	R R R		R R								DW DW		
SIGNAL INDICATIONS Y	Y	Y Y		Y Y Y		Y Y										
SIGNAL INDICATIONS FYA	FYL								FYL							
SIGNAL INDICATIONS G	L	S G	W W	G G G		S G								W W		
DETECTOR ASSIGNMENTS	11	21 22	P3 P5	41 42 43 44		61 62										
DETECTOR ASSIGNMENTS (PEDS. ONLY)														P7 P6		
OVERLAP PARENT PHASES																



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
- YR† — 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	
RTE. N MAINLINE	FR
COOL VALLEY ELEMENTARY	FR

CONTROLLER TYPE 8Φ NEMA

TRAFFIC SIGNAL CONTROL OPERATION
RTE. N & COOL VALLEY ELEMENTARY
INTERSECTION

DISCLAIMER

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STATE OF MISSOURI
JAMIE F. RANA
NUMBER PE-2005001034
PROFESSIONAL ENGINEER
Jamie F. Rana
01/28/2024 6:04:53 PM
JAMIE F. RANA - CIVIL
MO-PE-2005001034

DATE PREPARED 1/24/2024

ROUTE	STATE
N	MO
DISTRICT	SHEET NO.
SL	144

COUNTY ST. LOUIS

JOB NO. J6S3599

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)

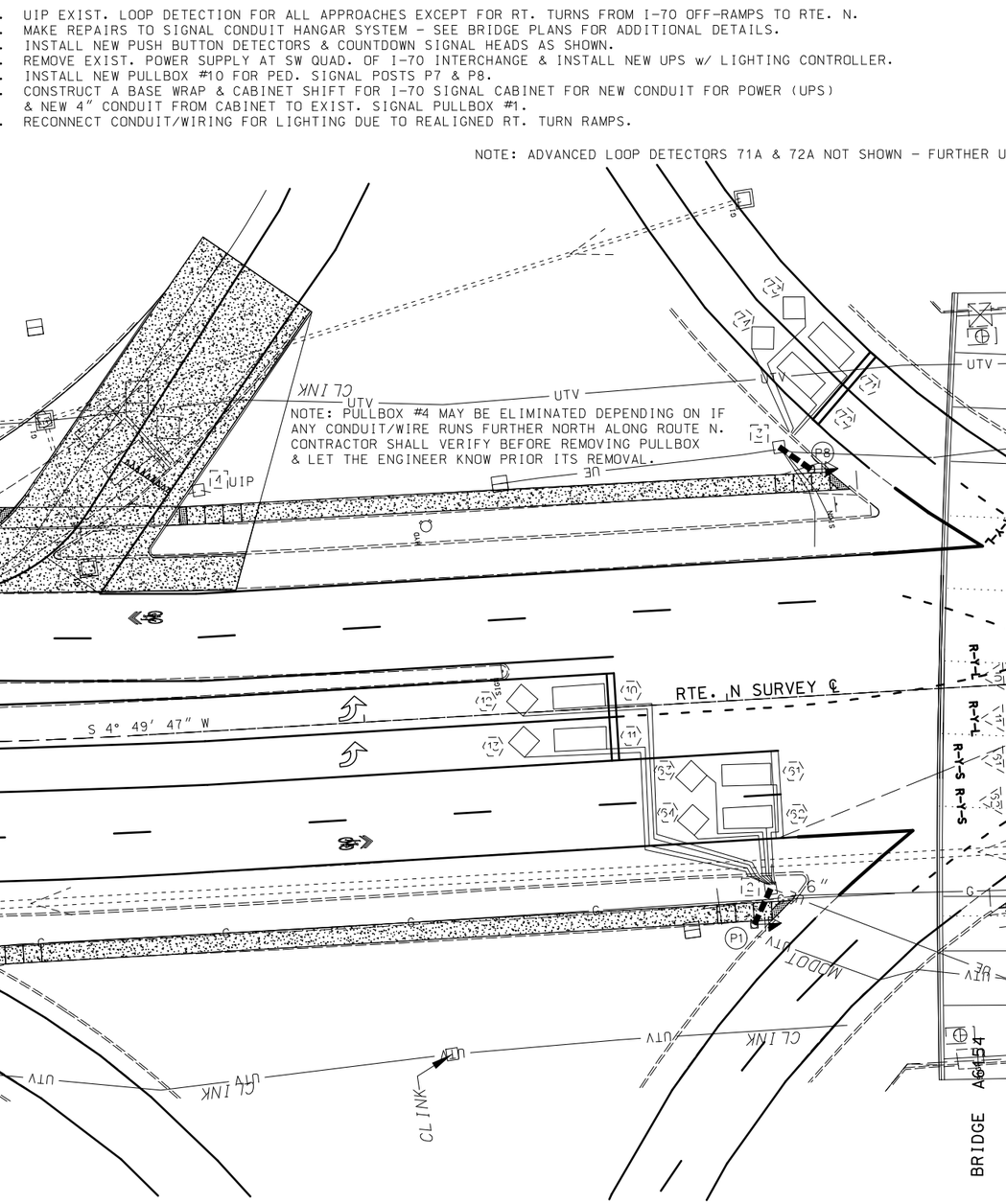
SIGNAL PLANS
RTE. N & COOL VALLEY ELEMENTARY

D-38A

CONSTRUCTION NOTES FOR EXIST. SIGNALS AT I-70:

1. UIP EXIST. LOOP DETECTION FOR ALL APPROACHES EXCEPT FOR RT. TURNS FROM I-70 OFF-RAMPS TO RTE. N.
2. MAKE REPAIRS TO SIGNAL CONDUIT HANGAR SYSTEM - SEE BRIDGE PLANS FOR ADDITIONAL DETAILS.
3. INSTALL NEW PUSH BUTTON DETECTORS & COUNTDOWN SIGNAL HEADS AS SHOWN.
4. REMOVE EXIST. POWER SUPPLY AT SW QUAD. OF I-70 INTERCHANGE & INSTALL NEW UPS w/ LIGHTING CONTROLLER.
5. INSTALL NEW PULLBOX #10 FOR PED. SIGNAL POSTS P7 & P8.
6. CONSTRUCT A BASE WRAP & CABINET SHIFT FOR I-70 SIGNAL CABINET FOR NEW CONDUIT FOR POWER (UPS) & NEW 4" CONDUIT FROM CABINET TO EXIST. SIGNAL PULLBOX #1.
7. RECONNECT CONDUIT/WIRING FOR LIGHTING DUE TO REALIGNED RT. TURN RAMPS.

NOTE: ADVANCED LOOP DETECTORS 71A & 72A NOT SHOWN - FURTHER UP WB OFF-RAMP.



NOTE: PULLBOX L4'S LOCATION MAY BE ADJUSTED DEPENDING ON WHERE VERTICAL CONDUIT IS INSTALLED BY THE CONTRACTOR FOR THE NEW BRIDGE LIGHTING.

NOTE: ADVANCED LOOP DETECTORS 31A & 32A NOT SHOWN - FURTHER UP EB OFF-RAMP.

NOTE: EXIST. PULLBOXES #8 & #9 NOT SHOWN.
PULLBOX #8 IS FOR LOOP DETECTORS FOR LT. TURN FROM EB I-70 OFF-RAMP TO NB RTE. N
PULLBOX #9 IS FOR LOOP DETECTORS FOR LT. TURN FROM WB I-70 OFF-RAMP TO SB RTE. N

SCALE
0 20 40 60

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TRAFFIC SIGNALS LEGEND

CONTROLLER	CCTV CAMERA	6 X 6 LOOP DETECTOR
CONTROLLER (EXISTING)	VIDEO DETECTOR	6 X 15 LOOP DETECTOR
JUNCTION BOX	PUSH BUTTON DETECTOR	30 X 6 LOOP DETECTOR
POWER SUPPLY	PREFORMED PULL BOX TYPE 1	CONDUIT MEDIAN
WOOD POST	PREFORMED PULL BOX TYPE 2	CONDUIT PUSHED
SIGNAL HEAD (OPT LIM CONV)	CONCRETE PULL BOX TYPE 1	CONDUIT BRIDGE
SIGNAL HEAD (OPT LIM)	CONCRETE PULL BOX TYPE 2	CONDUIT EXISTING
SIGNAL HEAD (PEDESTRIAN)	ITS PULL BOX TYPE 2	CONDUIT TRENCHED
SIGNAL HEAD (STANDARD)	ITS PULL BOX TYPE 5	SPAN WIRE
		MAST ARM - TYPE A BASE
		MAST ARM - TYPE C BASE
		MAST ARM - TYPE F BASE

STATE OF MISSOURI
JAMIE F. RANA
NUMBER PE-2005001034
PROFESSIONAL ENGINEER
Jami F. Rana
01/28/2024 8:05:50 PM
JAMIE F. RANA - CIVIL
MO-PE-2005001034

DATE PREPARED
1/24/2024

ROUTE	STATE
N	MO
DISTRICT	SHEET NO.
SL	145A

COUNTY
ST. LOUIS

JOB NO.
J6S3599

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)

SIGNAL PLANS
RTE. N & I-70 INTERCHANGE

CONSTRUCTION NOTES FOR EXIST. SIGNALS AT I-70:

1. UIP EXIST. LOOP DETECTION FOR ALL APPROACHES EXCEPT FOR RT. TURNS FROM I-70 OFF-RAMPS TO RTE. N.
2. MAKE REPAIRS TO SIGNAL CONDUIT HANGAR SYSTEM - SEE BRIDGE PLANS FOR ADDITIONAL DETAILS.
3. INSTALL NEW PUSH BUTTON DETECTORS & COUNTDOWN SIGNAL HEADS AS SHOWN.
4. REMOVE EXIST. POWER SUPPLY AT SW QUAD. OF I-70 INTERCHANGE & INSTALL NEW UPS w/ LIGHTING CONTROLLER.
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7. RECONNECT CONDUIT/WIRING FOR LIGHTING DUE TO REALIGNED RT. TURN RAMPS.

MATCHLINE RTE. N SURVEY ℄ STA. 207+50.0

RTE. N SURVEY ℄

NEW 3" RIGID (PUSHED) CONDUIT w/ 1" CABLE CONDUIT

EXIST. LIGHTING CIRCUIT (FROM AS-BUILTS NOT SURVEYED)

NEW LIGHTING CONDUIT (FOR NEW BRIDGE LIGHTING)

NEW CONDUIT (FOR SIGNAL POWER TO UPS)

NOTE: INSTALL NEW PULLBOX L5 TO INTERCEPT EXIST. CONDUIT/WIRING FOR LIGHTING. FROM AS-BUILT PLANS, POWER FOR SPRINKLER SYSTEM MAY RUN IN SAME GENERAL AREA AS LIGHTING CONDUIT/WIRING.

NEW 120V/240V PAD-MOUNTED COMBINATION POWER SUPPLY (UPS) w/ LIGHTING CONTROLLER LOCATION TO BE DETERMINED BY THE ENGINEER & CONTRACTOR TO AVOID EXIST. UTILITIES.

EXIST. BANK OF CABINETS - POWER SUPPLIES & LIGHTING CONTROLLERS PER JSPs, THE CONTRACTOR SHALL LABEL EACH UNIT WITH STICKER THAT DENOTES VOLTAGE & PURPOSE OF EACH CABINET.

NOTE: INSTALL NEW SIGNAL PULLBOX 11 (IF NECESSARY) TO PROVIDE ACCESS TO CONDUIT SYSTEM IF IT CONTINUES TOWARDS THE UNIVERSITY PL. DR. INTERSECTION. PULLBOX MAY BE ELIMINATED WITH APPROVAL FROM THE ENGINEER.

TRAFFIC SIGNALS LEGEND

CONTROLLER	CCTV CAMERA	6 X 6 LOOP DETECTOR
CONTROLLER (EXISTING)	VIDEO DETECTOR	6 X 15 LOOP DETECTOR
JUNCTION BOX	PUSH BUTTON DETECTOR	30 X 6 LOOP DETECTOR
POWER SUPPLY	PREFORMED PULL BOX TYPE 1	CONDUIT MEDIAN
WOOD POST	PREFORMED PULL BOX TYPE 2	CONDUIT PUSHED
SIGNAL HEAD (OPT LIM CONV)	CONCRETE PULL BOX TYPE 1	CONDUIT BRIDGE
SIGNAL HEAD (OPT LIM)	CONCRETE PULL BOX TYPE 2	CONDUIT EXISTING
SIGNAL HEAD (PEDESTRIAN)	ITS PULL BOX TYPE 2	CONDUIT TRENCHED
SIGNAL HEAD (STANDARD)	ITS PULL BOX TYPE 5	SPAN WIRE
		MAST ARM - TYPE A BASE
		MAST ARM - TYPE C BASE
		MAST ARM - TYPE F BASE

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SCALE 0 20 40 60

STATE OF MISSOURI
JAMIE F. RANA
NUMBER PE-2005001034
PROFESSIONAL ENGINEER
Jamie F. Rana
01/28/2024 8:06:17 PM
JAMIE F. RANA - CIVIL
MO-PE-2005001034

DATE PREPARED 1/24/2024

ROUTE	STATE
N	MO
DISTRICT	SHEET NO.
SL	145B

COUNTY ST. LOUIS

JOB NO. J6S3599

CONTRACT ID.

PROJECT NO.

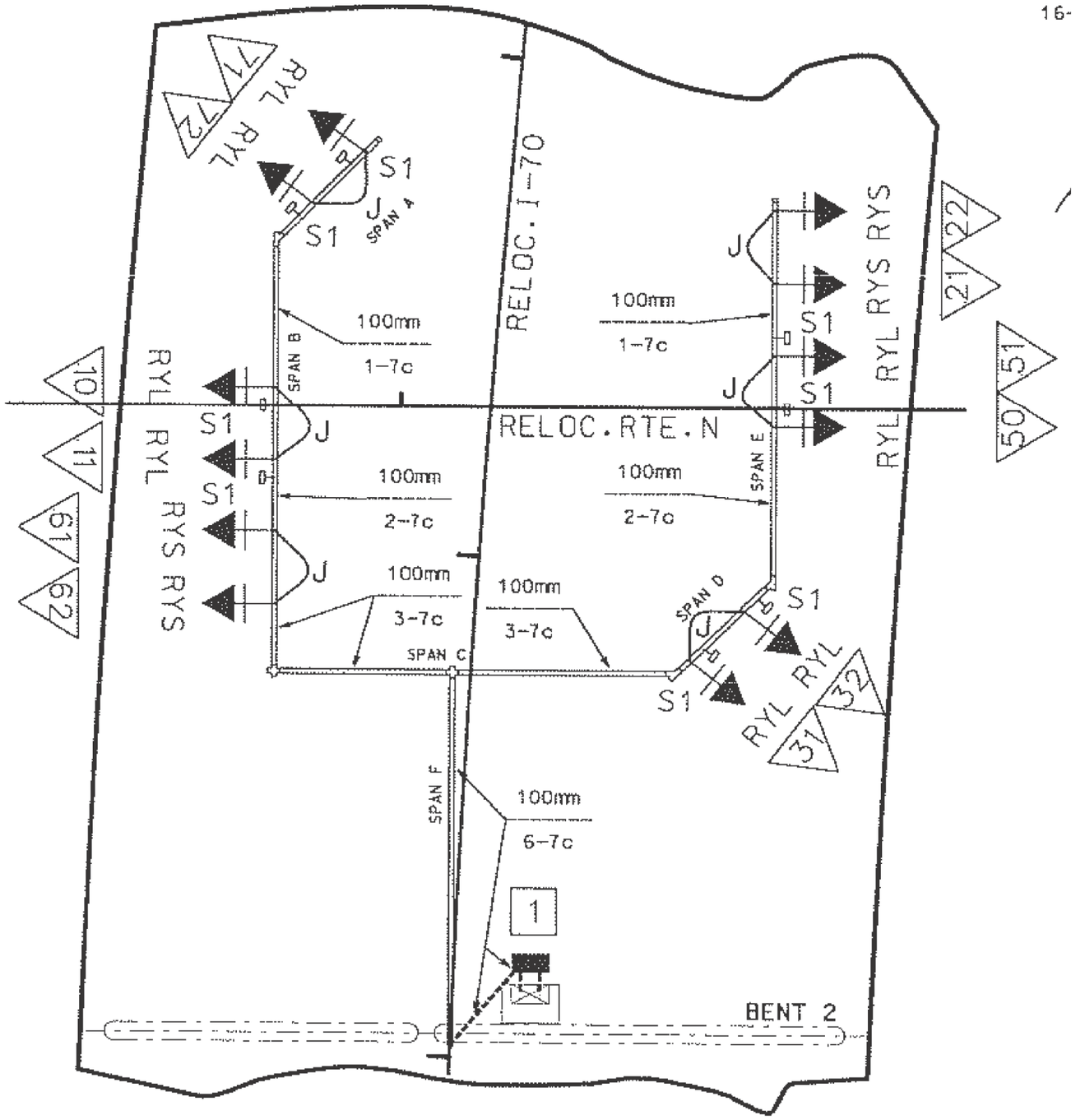
BRIDGE NO.

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)

SIGNAL PLANS
RTE. N & I-70 INTERCHANGE



DETAIL of CONDUIT SYSTEM HUNG from BRIDGE

FOR INFORMATIONAL PURPOSES ONLY

NOT TO SCALE

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STATE OF MISSOURI
JAMIE F. RANA
NUMBER PE-2005001034
PROFESSIONAL ENGINEER
Jamie F. Rana
01/28/2024 8:06:51 PM
JAMIE F. RANA - CIVIL
MO-PE-2005001034

DATE PREPARED
1/24/2024

ROUTE	STATE
N	MO
DISTRICT	SHEET NO.
SL	146

COUNTY
ST. LOUIS

JOB NO.
J6S3599

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)

SIGNAL SHEET
SIGNALS UNDER
I-70 ATTACHED
TO BRIDGE

EFFECTIVE: 07/01/2018

| POST NUMBER | PULL BOX NUMBER | LOCATION | STATION | 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 | TOP MOUNT POST 8 FT. | TOP MOUNT POST 15 FT. | TYPE C & CL ARM LENGTH A | A | A | A | TYPE C & CL SIGNAL SPACING B | C | D | D′ | TYPE C & CL 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′ | LEFT ARM E SIGN SPACING F | G | H | H′ | RIGHT ARM K SIGNAL SPACING L | M | N | N′ | RIGHT ARM K SIGN SPACING L | M | N | N′ | INCLUDED ANGLE | LUMINAIRE BRACKET ARM* 4 FT. | 6 FT. | 8 FT. | 10 FT. | 12 FT. | 15 FT. |
|---|---|---

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EFFECTIVE: 10-01-2015

CABLE CONDUIT

FROM	TO	CTR TO CTR DIST.	LOOP DETECT	TRENCHED			PUSHED			MEDIAN			ON STRUCTURE			REMARKS
			1"	2"	3"	4"	2"	3"	4"	2"	3"	4"	2"	3"	4"	
SOURCE	UPS	80		(84)												(INCLUDED IN COST OF POWER SUPPLY)
UPS		82			84											TRENCHED
UPS		285						27								PUSHED
	I1	8				11										INSTALL NEW 4" AFTER BASE WRAP
I1	P2	48			49											
I1	P3	47			48											
I2	P1	11						12								
IG	P4	12			13											
I1	I0	159			157											
I0	P6	41			42											
I0	P7	36						37								
I3	P8	11			12											
I5	P5	8			9											
SUBTOTALS			0	0	414	11	0	76	0	0	0	0	0	0	0	
PAY TOTALS			0	0	414	11	0	76	0	0	0	0	0	0	0	

FROM	TO	CTR TO CTR DIST.	POWER		CONTROL				LIGHTING		DETECTOR		FIBER	REMARKS
			1c-#2	1c-#8	2c-#16	5c-#16	7c-#16	12c-#12	CONTROL 2c-#12	POLE & BRACKET 1c-#10	VIDEO		24 FIBER SINGLEMODE	
SOURCE	UPS	80	(369)											3X123' (INCLUDED IN COST OF POWER SUPPLY)
UPS		367		1203										3X367'
	P1	135				165								
	P2	135			164									
P2		56				80								
	P1	56			79									
	P3	55				79								
	P4	55			78									
	P4	138				168								
	P3	138			167									
	P5	253				289								
	P6	253			288									
	P6	208				238								
	P5	208			237									
	P7	203				233								
	P8	203			232									
	P8	257				293								
	P7	257			292									
SUBTOTALS			(369)	1203	1537	1545	0	0	0	0	0	0	0	
PAY TOTALS				1260	1610	1620	0	0	0	0	0	0	0	INCLUDES 5% FOR SNAKING

INTERSECTION RTE. N & I-70 INTERCHANGE

D-37B

STATE OF MISSOURI
JAMIE F. RANA
NUMBER PE-2005001034
PROFESSIONAL ENGINEER
Jamie F. Rana
01/28/2024 8:07:42 PM
JAMIE F. RANA - CIVIL
MO-PE-2005001034

DATE PREPARED
1/24/2024

ROUTE	STATE
N	MO
DISTRICT	SHEET NO.
SL	148

COUNTY
ST. LOUIS

JOB NO.
J6S3599

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)

SIGNAL PLANS
RTE. N & I-70 INTERCHANGE

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					
ROADWAY	STATION	OFFSET	SPECIAL UNINTERRUPTIBLE PS GROUND MOUNT	AUXILIARY BREAKER	CONT & SIGNAL LAMPS	MAIN BREAKER		120 VOLT CONTROL CABINET	MAIN BREAKER	CONTRACT FURNISH	UTILITY COMPANY
						SIGNALS	LIGHTING				
RTE. N	TBD	TBD	Type UPS (SEE SPECIAL)	15 Amps	· Amps	Amps	Amps		Amps	Ci. Ft.	AMEREN MO
			Type	15 Amps	Amps	Amps	Amps		Amps	Ci. Ft.	

NOTE: TBD = TO BE DETERMINED BY THE CONTRACTOR & ENGINEER – REPLACE EXIST. POWER SUPPLY IN SW QUAD OF I-70 INTERCHANGE.

✳ ITEMS FOR WHICH SEPARATE PAYMENT WILL NOT BE MADE.

✳✳✳ USE D3-1 FOR ONE LINE. USE D3-1B FOR TWO LINE.

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								
ROADWAY	STATION	OFFSET	NEMA	170	NEMA	170	I	II	MASTER	LOCAL		NEMA	170			E	EV	DOUBLE	332	336S	BITRAN	WAPITI
RTE. N	205+15.0	102.1' RT.			UIP												UIP					

NEMA DETECTOR ASSIGNMENT

		CARD POSITION							
		1	2	3	4	5	6	7	8
CHANNEL	1								
	2								

TOTAL NUMBER OF DETECTOR CARDS(2-CHANNEL) = (2)

NEMA LOAD SWITCH ASSIGNMENTS

1	2	3	4	5	6	7	8	9	10	11	12
Ø1 SBL T	Ø2 NB	Ø3 EBL T	N/U	Ø5 NBL T	Ø6 SB	Ø7 WBL T	N/U	N/U	N/U	N/U	N/U

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		
	D3-1 ✳✳✳	VAR. X 18			
	D3-1B ✳✳✳	VAR. X 18			
5	R10-3eR	9 X 15	0.9	(4.5)	(5)
3	R10-3eL	9 X 15	0.9	(2.7)	(3)
	R10-3eLR	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	0	0
				TOTAL	°°	°°

°° INDICATES SEE QTY. SHEETS FOR FINAL PAY TOTALS.

DETECTOR SCHEDULE

DETECTOR NUMBER	APPROACH	DETECTOR ZONE	TYPE					
			PRESSURE ACTIVATED PUSH BUTTON	INDUCTION LOOP (2)			VIDEO	OPTIONAL DETECTION (3)
				STANDARD	DELAY/ EXTEND ✳	CALL UNIT ✳		
21/23	NB RTE. N	STOP BAR						UIP EXIST.
22/24	NB RTE. N	STOP BAR						UIP EXIST.
50/52	NB RTE. N – LT.	STOP BAR						UIP EXIST.
51/53	NB RTE. N – LT.	STOP BAR						UIP EXIST.
61/63	SB RTE. N	STOP BAR						UIP EXIST.
62/64	SB RTE. N	STOP BAR						UIP EXIST.
10/12	SB RTE. N – LT.	STOP BAR						UIP EXIST.
11/13	SB RTE. N – LT.	STOP BAR						UIP EXIST.
31/33	EB 70 OFF – LT. (NB N)	STOP BAR						UIP EXIST.
32/34	EB 70 OFF – LT. (NB N)	STOP BAR						UIP EXIST.
71/73	WB 70 OFF – LT. (SB N)	STOP BAR						UIP EXIST.
72/74	WB 70 OFF – LT. (SB N)	STOP BAR						UIP EXIST.
P1	WALK N/S – WB 70 ON-RAMP		1					
P2	WALK N/S – WB 70 ON-RAMP		1					
P3	WALK N/S – EB 70 OFF-RAMP		1					
P4	WALK N/S – EB 70 OFF-RAMP		1					
P5	WALK N/S – EB 70 ON-RAMP		1					
P6	WALK N/S – EB 70 ON-RAMP		1					
P7	WALK N/S – WB 70 OFF-RAMP		1					
P8	WALK N/S – WB 70 OFF-RAMP		1					
		SUBTOTALS	8					

( ) INDICATES SIGNS TO BE INCLUDED AS PART OF APS (AUDIBLE PED. PUSHBUTTON & SIGNING w/ VERBAL WALK MESSAGE).

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(1) MoDOT "D" PLUG SHALL BE WIRED INTO ALL NEMA CONTROLLERS WITH 7C HARDWIRE INTERCONNECT.

(2) SEE ADVANCED TRAFFIC CONTROLLER JSP FOR ADDITIONAL DETAILS.

(3) SEE OPTIONAL DETECTION JSP FOR ADDITIONAL DETAILS. SIGNAL DETECTION SHALL BE PAID AS 1 PER INTERSECTION, INCLUDING ADVANCED DETECTION. THE CONTRACTOR SHALL PROVIDE AND INSTALL A VEHICLE DETECTION SYSTEM FULLY COVERING ALL 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) SEE MODOT TS2 TYPE 1 CABINET ASSEMBLY JSP FOR ADDITIONAL DETAILS.

(5) SEE 120 VOLT IP ADDRESSABLE POWER STRIP JSP FOR ADDITIONAL DETAILS.

RTE. N & I-70 INTERCHANGE

INTERSECTION

D-37C

STATE OF MISSOURI
JAMIE F. RANA
NUMBER PE-2005001034
PROFESSIONAL ENGINEER
Jamie F. Rana
01/29/2024 8:08:04 PM
JAMIE F. RANA - CIVIL
MO-PE-2005001034

DATE PREPARED
1/24/2024

ROUTE	STATE
N	MO
DISTRICT	SHEET NO.
SL	149

COUNTY
ST. LOUIS

JOB NO.
J6S3599

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)

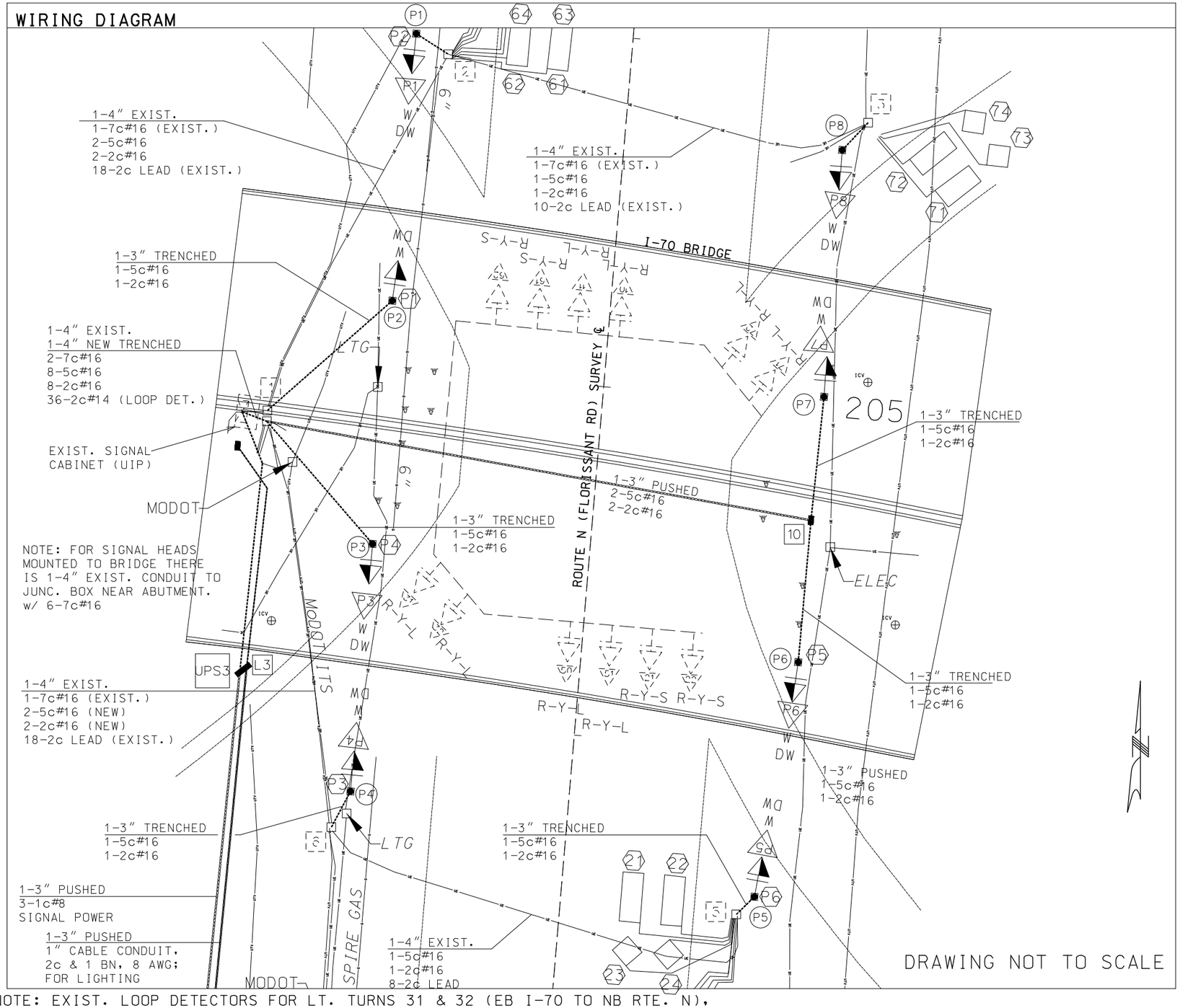
SIGNAL PLANS
RTE. N & I-70 INTERCHANGE

NOTE: EXIST. POWER SOURCE & POWER SUPPLY IN SW CORNER OF INTERCHANGE. (R) & REPLACE EXIST. POWER SUPPLY W/ 120/240V UPS

NOTE: 1-7c CONDUCTORS MAY STILL BE PRESENT WITHIN EXIST. CONDUIT SYSTEM FOR REMOVED SIGNALS FOR RT. TURNS FROM I-70 OFF-RAMPS.

EFFECTIVE 12-01-17

WIRING DIAGRAM



DRAWING NOT TO SCALE

NOTE: EXIST. LOOP DETECTORS FOR LT. TURNS 31 & 32 (EB I-70 TO NB RTE. N), LT. TURNS 10 & 11 (SB RTE. N TO EB I-70) & LT. TURNS 50 & 51 (NB RTE. N TO WB I-70) NOT SHOWN ON SHEET.

NOTE: UIP EXIST. LOOP DETECTORS IN PAVEMENT ON RTE. N.

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LEGEND

- 3" CONDUIT CONTAINING CABLE WITH SIZE
- CABLE
- X-Xc MULTI-CONDUCTOR CABLE #16 AWG (UNLESS OTHERWISE INDICATED)
- LIC #14 AWG DETECTOR LEAD-IN CABLE (2C TWISTED SHIELDED)
- PULL BOX WITH NUMBER
- POST WITH NUMBER
- POST WITH MAST ARM
- POST WITH MAST ARM AND LUMINAIRE
- DETECTOR WITH NUMBER
- SIGNAL HEAD WITH NUMBER
- SIGNAL CONTROLLER
- POWER SUPPLY
- LIGHTING CONTROLLER
- INTERSECTION DETECTION ZONE
- ITS PULL BOX
- LOCATION OF STATION & OFFSET — UNINTERRUPTIBLE POWER SUPPLY & LIGHTING CONTROL STATION
- LOCATION OF STATION & OFFSET — NEW SIGNAL CABINET
- AMEREN MISSOURI POWER POLE
- EXIST. SIGNAL CABINET

RTE. N & I-70 INTERCHANGE

INTERSECTION

D-37D

STATE OF MISSOURI
JAMIE F. RANA
NUMBER PE-2005001034
PROFESSIONAL ENGINEER
Jamie F. Rana
01/29/2024 8:08:28 PM
JAMIE F. RANA - CIVIL
MO-PE-2005001034

DATE PREPARED
1/24/2024

ROUTE	STATE
N	MO
DISTRICT	SHEET NO.
SL	150

COUNTY
ST. LOUIS

JOB NO.
J6S3599

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION	DATE

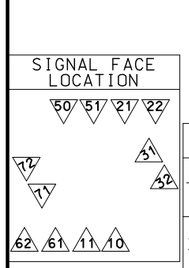
IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

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

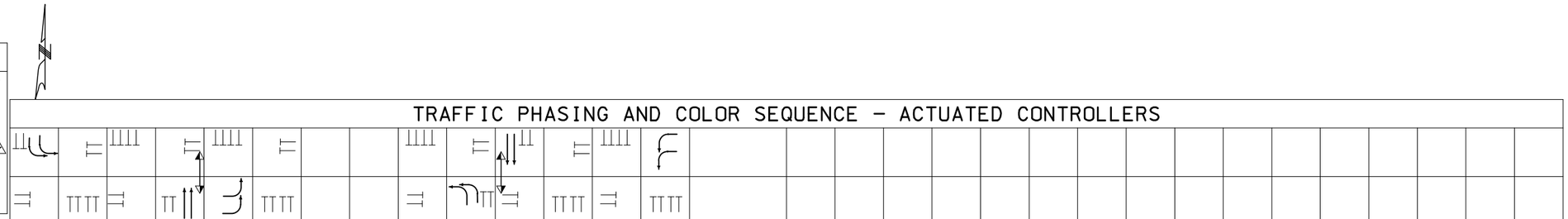
SIGNAL PLANS
RTE. N & I-70 INTERCHANGE

EFFECTIVE 12/01/2017

SIGNAL FACE LOCATION

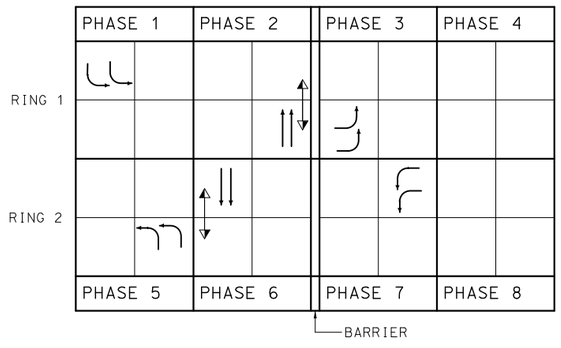


TRAFFIC PHASING AND COLOR SEQUENCE – ACTUATED CONTROLLERS



	PHASE 1	PHASE 2	PHASE 3	PHASE 4	PHASE 5	PHASE 6	PHASE 7	PHASE 8	PED Φ2 OVERLAP	PED Φ OVERLAP	PED Φ6 OVERLAP	PED Φ OVERLAP
FACE NUMBERS	10 11	21 22	31 32		50 51	61 62	71 72		P5 P6 P7 P8		P1 P2 P3 P4	
SIGNAL INDICATIONS R	R R	R R	R R		R R	R R	R R		DW DW DW DW		DW DW DW DW	
SIGNAL INDICATIONS Y	Y Y	Y Y	Y Y		Y Y	Y Y	Y Y					
SIGNAL INDICATIONS FYA												
SIGNAL INDICATIONS G	L L	S S	L L		L L	S S	L L		W W W W		W W W W	
DETECTOR ASSIGNMENTS	10 12 / 11 13	21 23 / 22 24	31 33 31A / 32 34 32A		50 52 / 51 53	61 63 / 62 64	71 73 71A / 72 74 72A					
DETECTOR ASSIGNMENTS (PEDS. ONLY)									P1 P2 P3 P4		P5 P6 P7 P8	
OVERLAP PARENT PHASES												

FACE NUMBERS
SIGNAL INDICATIONS R Y FYA G
DETECTOR ASSIGNMENTS



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
- YR† — 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

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FLASHING OPERATION	
RTE. N MAINLINE	FR
I-70 RAMPS	FR

CONTROLLER TYPE 8Φ NEMA

TRAFFIC SIGNAL CONTROL OPERATION

RTE. N & I-70 INTERCHANGE

INTERSECTION

D-38A

STATE OF MISSOURI
JAMIE F. RANA
NUMBER PE-2005001034
PROFESSIONAL ENGINEER
Jamie F. Rana
01/29/2024 8:05:51 PM
JAMIE F. RANA - CIVIL
MO-PE-2005001034

DATE PREPARED 1/24/2024

ROUTE	STATE
N	MO
DISTRICT	SHEET NO.
SL	151

COUNTY ST. LOUIS

JOB NO. J6S3599

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)

SIGNAL PLANS
RTE. N & I-70 INTERCHANGE

CONSTRUCTION NOTES FOR EXIST. SIGNALS AT UNIVERSITY PLACE DR.

1. REMOVE EXIST. VIDEO DETECTION FOR UNIVERSITY PLACE DR. APPROACH.
2. ABANDON EXIST. LOOP DETECTORS FOR RTE. N.
3. INSTALL NEW OPTIONAL DETECTION FOR ALL APPROACHES AT INTERSECTION.
4. RESTRIPE SB RTE. N TO ALLOW FOR 3-10.5' LAENS AT UNIVERSITY PLACE DR.
5. INSTALL NEW SIGNAL HEAD FOR RT. TURN FOR SB RTE. N TO UNIVERSITY PLACE DR.
6. APPROACH ACROSS FROM UNIVERSITY PLACE DRIVE IS BEING REMOVED.
7. INSTALL NEW PUSH BUTTON DETECTORS & COUNTDOWN SIGNAL HEADS AS SHOWN.
8. INSTALL NEW UPS W/ LIGHTING CONTROLLER.
9. REMOVE EXIST. POWER SUPPLY AT SW QUAD. OF I-70 INTERCHANGE.
10. CONSTRUCT BASE WRAP & CABINET SHIFT AT SIGNAL CABINET DUE TO NEW CONDUIT FROM NEW UPS.

(R) VIDEO DETECTION CAMERA INSTALL NEW OPT. DETECTION SYSTEM FOR INTERSECTION

(UIP) EXIST. SIGNAL BASE, POST, MAST ARM, ATTACHED SIGNALS, AND SIGNING

UIP
University Blvd
SIGN ON POST A FOR RTE. N

LEFT TURN SIGNAL (R)
R10-10L

(R) EXIST. PULLBOX (DETECTION LOOPS)

LEFT TURN YIELD ON FLASHING ARROW
R10-27a

LEFT TURN YIELD ON GREEN
R10-12

(R) & REPLACE w/ R10-27a

NEW OPT. DETECTION

RTE. N (FLORRISANT ROAD)
SURVEY ℄

NEXT SIGNAL 875 FEET

R & REPLACE SIGNAL HEAD

ABANDON DET. LOOPS

NEW OPT. DETECTION

ADD SIGNAL HEAD

3 PED. STANCHION ONLY

NEXT SIGNAL 1800 FEET

UIP

University Place Dr
SIGN ON POSTS A & C
UIP

POTENTIAL POWER SOURCE
(EXIST. CONDUIT RUNS DOWN TO EXIST. POWER POLE.)

(UIP) EXIST. MODOT CLASS 5 PULLBOX

(UIP) EXIST. PULLBOX (SIGNALS)

(UIP) EXIST. SIGNAL CABINET AND CONTROLLER

(UIP) EXIST. PULLBOX

POTENTIAL POWER SOURCE

NEW COMBINATION PAD-MOUNTED UPS (UNINTERRUPTIBLE POWER SUPPLY - 120V) & LIGHTING CONTROLLER (240V)

(UIP) EXIST. PULLBOX (SIGNALS)

(UIP) EXIST. SIGNAL BASE, POST, MAST ARM, ATTACHED SIGNALS, AND SIGNING

SPECIAL SIGN

R10-3eL NONE

R10-3eR (1)(5)(4)(2)

R10-3eLR (3)

HAS BOTH LT. & RT. ARROW HEADS

INSTALL SIGN ON LISTED POST:

SCALE
0 20 40 60

TRAFFIC SIGNALS LEGEND

CONTROLLER	CCTV CAMERA	6 X 6 LOOP DETECTOR	
CONTROLLER (EXISTING)	VIDEO DETECTOR	6 X 15 LOOP DETECTOR	
JUNCTION BOX	PUSH BUTTON DETECTOR	30 X 6 LOOP DETECTOR	
POWER SUPPLY	PREFORMED PULL BOX TYPE 1	CONDUIT MEDIAN	
WOOD POST	PREFORMED PULL BOX TYPE 2	CONDUIT PUSHED	
SIGNAL HEAD (OPT LIM CONV)	CONCRETE PULL BOX TYPE 1	CONDUIT BRIDGE	
SIGNAL HEAD (OPT LIM)	CONCRETE PULL BOX TYPE 2	CONDUIT EXISTING	
SIGNAL HEAD (PEDESTRIAN)	ITS PULL BOX TYPE 2	CONDUIT TRENCHED	
SIGNAL HEAD (STANDARD)	ITS PULL BOX TYPE 5	SPAN WIRE	
		MAST ARM - TYPE A BASE	
		MAST ARM - TYPE C BASE	
		MAST ARM - TYPE F BASE	

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STATE OF MISSOURI
JAMIE F. RANA
NUMBER PE-2005001034
PROFESSIONAL ENGINEER
Jamie F. Rana
01/26/2024 8:09:33 PM
JAMIE F. RANA - CIVIL
MO-PE-2005001034

DATE PREPARED
1/24/2024

ROUTE	STATE
N	MO
DISTRICT	SHEET NO.
SL	152

COUNTY
ST. LOUIS

JOB NO.
J6S3599

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)

UNIVERSITY PLACE DR.
SIGNAL IMPROVEMENTS

EFFECTIVE: 07/01/2018

POST NUMBER	PULL BOX NUMBER	LOCATION	STATION	OFFSET	BASE A 9	A 9.5	A 10	A 10.5	A 11	A 12	BASE F 9	F 9.5	F 10	F 10.5	F 11	F 12	BASE 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	DRAIN TYPE* II A	II B	II C	TOP MOUNT POST 8 FT.	15 FT.	PED STANCHION
			CONTROLLER (UIP)																													
			UPS															1.29														
1		NW QUAD	213+65.9	61.6′ RT.														1 0.44												1		
2		NE QUAD	214+60.9	49.7′ LT.														1 0.44												1		
3		MEDIAN - S. APPR.	214+61.6	6.4′ RT.														1 0.44	STANCHION												1	
4		SW QUAD	214+54.3	48.1′ RT.														1 0.44												1		
5		SW QUAD	214+38.5	57.6′ RT.														1 0.44												1		
	1	SE QUAD	214+52.3	52.1′ LT.																1						1						
	2	MEDIAN - S. APPR.	214+53.4	8.5′ RT.																1						1						
				SUBTOTAL														3.49		2										4		1
				TOTAL														°°		°°										°°		°°

POST NUMBER	PULL BOX NUMBER	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.

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EFFECTIVE: 10-01-2015

CABLE CONDUIT

FROM	TO	CTR TO CTR DIST.	LOOP DETECT	TRENCHED			PUSHED			MEDIAN			ON STRUCTURE			REMARKS
			1"	2"	3"	4"	2"	3"	4"	2"	3"	4"	2"	3"	4"	
SOURCE	UPS	40		(44)												(INCLUDED IN COST OF POWER SUPPLY)
UPS		12			16											
	D	3						EX.								
D	C	82							EX.							
D	A	40				EX.										
A	A	107			EX.											
C	C	29				EX.										
C	5	27			28											
C	4	46			47											
C	2	79						77								
2	1	61			59											
1	2	9			10											
2	3	9						10								
D	1	27			28											
SUBTOTALS		0		(44)	188	0	0	87	0	0	0	0	0	0	0	
PAY TOTALS		0		0	188	0	0	87	0	0	0	0	0	0	0	SEE FINAL PAY TOTALS IN QTY. SHEETS FOR ALL INTERSECTION WORK COMBINED

FROM	TO	CTR TO CTR DIST.	POWER		CONTROL				LIGHTING		DETECTOR		FIBER	REMARKS
			1c-#2	1c-#8	2c-#16	5c-#16	7c-#16	12c-#12	CONTROL 2c-#12	POLE & BRACKET 1c-#10	VIDEO		24 FIBER SINGLEMODE	
SOURCE	UPS		(129)											3X43' (INCLUDED IN COST OF POWER SUPPLY)
UPS		12		84										3X28'
	R1	114					EX.							
	R2	114					EX.							
	R3	114					176							
	P4	135				165								
	P5	117				147								
	P6	176				212								
	P2	236				278								
	P1	31				55								
	4	135			164									
	5	117			146									
	3	176			211									
	2	236			277									
	1	31			54									
	50	150					219							
	R1	150					EX.							
	R2	150					EX.							
	R1	150					EX.							
	R2	150					EX.							
SUBTOTALS			(129)	84	852	857	395	0	0	0	0	0	0	
PAY TOTALS				90	900	900	420	0	0	0	0	0	0	INCLUDES 5% FOR SNAKING

INTERSECTION RTE. N & UNIVERSITY PLACE DR.

D-37B

STATE OF MISSOURI
JAMIE F. RANA
NUMBER PE-2005001034
PROFESSIONAL ENGINEER

Jamie F. Rana
01/28/2024 8:10:44 PM
JAMIE F. RANA - CIVIL
MO-PE-2005001034

DATE PREPARED
1/24/2024

ROUTE	STATE
N	MO
DISTRICT	SHEET NO.
SL	154

COUNTY
ST. LOUIS

JOB NO.
J6S3599

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)

SIGNAL PLANS
RTE. N & UNIVERSITY PLACE DR.

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					
ROADWAY	STATION	OFFSET	SPECIAL UNINTERRUPTIBLE PS GROUND MOUNT	AUXILIARY BREAKER	CONT & SIGNAL LAMPS	MAIN BREAKER		120 VOLT CONTROL CABINET	MAIN BREAKER	CONTRACT FURNISH	UTILITY COMPANY
						SIGNALS	LIGHTING				
RTE. N	213+62.4	90' RT.	Type UPS (SEE SPECIAL)	15 Amps	· Amps	Amps	Amps		Amps	Ci. Ft.	AMEREN MO
			Type	15 Amps	Amps	Amps	Amps		Amps	Ci. Ft.	

✳ ITEMS FOR WHICH SEPARATE PAYMENT WILL NOT BE MADE.

✳✳✳ USE D3-1 FOR ONE LINE. USE D3-1B FOR TWO LINE.

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									
ROADWAY	STATION	OFFSET	NEMA	170	NEMA	170	I	II	MASTER	LOCAL		NEMA	170	FIBER		E	EV	DOUBLE	332	336S	BITRAN	WAPITI
RTE. N	213+50.9	87.7' RT.			UIP												UIP?					

NEMA DETECTOR ASSIGNMENT

		CARD POSITION							
		1	2	3	4	5	6	7	8
CHANNEL	1								
	2								

TOTAL NUMBER OF DETECTOR CARDS(2-CHANNEL) = (2)

NEMA LOAD SWITCH ASSIGNMENTS

1	2	3	4	5	6	7	8	9	10	11	12
N/U	Ø2 NB	N/U	N/U	Ø5 NBLT FYA	Ø6 SB	N/U	Ø8 EB	N/U	Ø6 PED	N/U	Ø8 PED

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		
	D3-1 ✳✳✳	VAR. X 18			
	D3-1B ✳✳✳	VAR. X 18			
4	R10-3eR	9 X 15	0.9	(3.6)	(4)
	R10-3eL	9 X 15	0.9		
1	R10-3eLR	9 X 15	0.9	(0.9)	(1)
	R10-11A	24 X 30	5.0		
	R10-13	36 X 24	6.0		
1	R10-27A	30 X 36	7.5	7.5	1
1	R10-30b	30 X 36	7.5	7.5	1
			SUBTOTAL	15.0	2
			TOTAL	°°	°°

°° INDICATES SEE QTY. SHEETS FOR FINAL PAY TOTALS.

DETECTOR SCHEDULE

DETECTOR NUMBER	APPROACH	DETECTOR ZONE	TYPE					
			PRESSURE ACTIVATED PUSH BUTTON	INDUCTION LOOP (2)			VIDEO	OPTIONAL DETECTION (3)
				STANDARD	DELAY/ EXTEND ✳	CALL UNIT ✳		
21	NB RTE. N	STOP BAR						X
22	NB RTE. N	STOP BAR						
50	NB RTE. N – LT.	STOP BAR						
61	SB RTE. N	STOP BAR						X
62	SB RTE. N	STOP BAR						
63	SB RTE. N – RT.	STOP BAR						
81	UNIV. PL. DR. – LT.	STOP BAR						X
82	UNIV. PL. DR. – LT./RT.	STOP BAR						
P1	WALK SOUTH (UNIV. PL. DR.)		1					
P2	WALK WEST (RTE. N)		1					
P3	WALK EAST/WEST (RTE. N)		1					
P4	WALK WEST (RTE. N)		1					
P5	WALK NORTH (UNIV. PL. DR.)		1					
		SUBTOTALS	5					1

( ) INDICATES SIGNS TO BE INCLUDED AS PART OF APS (AUDIBLE PED. PUSHBUTTON & SIGNING w/ VERBAL WALK MESSAGE).

DISCLAIMER

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NOTE: R10-30B (U-TURN ON GREEN ARROW) IS A TEMP. SIGN – SEE SHEET #68

(1) MoDOT "D" PLUG SHALL BE WIRED INTO ALL NEMA CONTROLLERS WITH 7C HARDWIRE INTERCONNECT.

(2) SEE ADVANCED TRAFFIC CONTROLLER JSP FOR ADDITIONAL DETAILS.

(3) SEE OPTIONAL DETECTION JSP FOR ADDITIONAL DETAILS. SIGNAL DETECTION SHALL BE PAID AS 1 PER INTERSECTION, INCLUDING ADVANCED DETECTION. THE CONTRACTOR SHALL PROVIDE AND INSTALL A VEHICLE DETECTION SYSTEM FULLY COVERING ALL 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) SEE MODOT TS2 TYPE 1 CABINET ASSEMBLY JSP FOR ADDITIONAL DETAILS.

(5) SEE 120 VOLT IP ADDRESSABLE POWER STRIP JSP FOR ADDITIONAL DETAILS.

RTE. N & UNIVERSITY PLACE DR.

INTERSECTION

D-37C

STATE OF MISSOURI
JAMIE F. RANA
NUMBER PE-2005001034
PROFESSIONAL ENGINEER
Jamie F. Rana
01/28/2024 8:11:05 PM
JAMIE F. RANA - CIVIL
MO-PE-2005001034

DATE PREPARED
1/24/2024

ROUTE	STATE
N	MO
DISTRICT	SHEET NO.
SL	155

COUNTY
ST. LOUIS

JOB NO.
J6S3599

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)

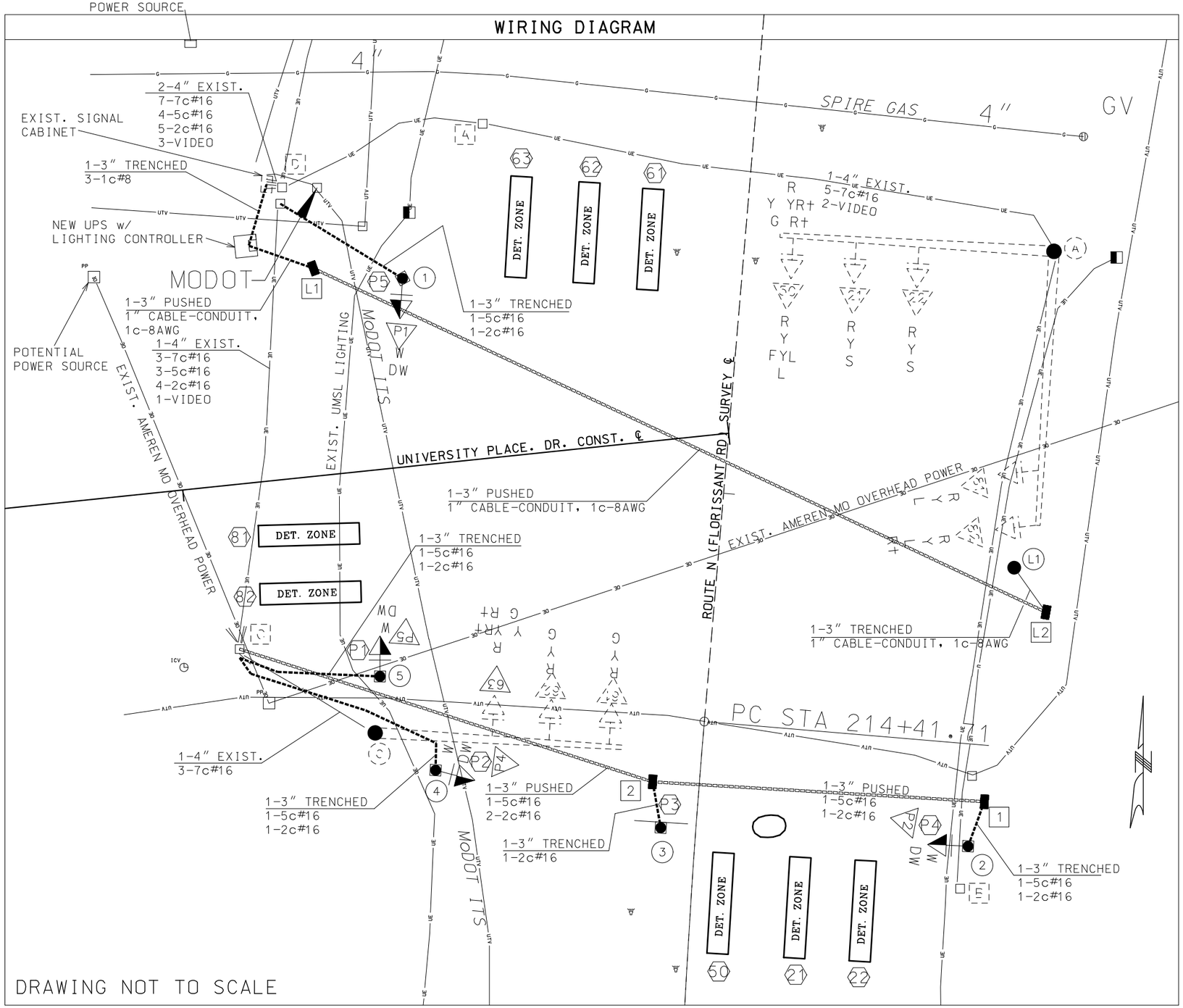
IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

SIGNAL PLANS

RTE. N & UNIVERSITY PLACE DR.

EFFECTIVE 12-01-17

WIRING DIAGRAM



NOTE: P3 ON POST 3 IS A PUSH-BUTTON STANCHION W/ NO SIGNAL HEADS. WILL ALLOW SOMEONE TO CROSS BOTH DIRECTIONS OF RTE. N.

RTE. N & UNIVERSITY PLACE DR.

INTERSECTION

DISCLAIMER

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LEGEND

- 3" CONDUIT CONTAINING CABLE WITH SIZE
- CABLE
- X-Xc MULTI-CONDUCTOR CABLE #16 AWG (UNLESS OTHERWISE INDICATED)
- LIC #14 AWG DETECTOR LEAD-IN CABLE (2C TWISTED SHIELDED)
- PULL BOX WITH NUMBER
- POST WITH NUMBER
- POST WITH MAST ARM
- POST WITH MAST ARM AND LUMINAIRE
- DETECTOR WITH NUMBER
- SIGNAL HEAD WITH NUMBER
- SIGNAL CONTROLLER
- POWER SUPPLY
- LIGHTING CONTROLLER
- INTERSECTION DETECTION ZONE
- ITS PULL BOX
- LOCATION OF STATION & OFFSET — UNINTERRUPTIBLE POWER SUPPLY & LIGHTING CONTROL STATION
- LOCATION OF STATION & OFFSET — NEW SIGNAL CABINET
- AMEREN MISSOURI POWER POLE
- EXIST. SIGNAL CABINET

STATE OF MISSOURI
JAMIE F. RANA
NUMBER PE-2005001034
PROFESSIONAL ENGINEER
Jamie F. Rana
01/28/2024 8:11:25 PM
JAMIE F. RANA - CIVIL
MO-PE-2005001034

DATE PREPARED 1/24/2024

ROUTE	STATE
N	MO
DISTRICT	SHEET NO.
SL	156

COUNTY: ST. LOUIS
JOB NO.: J6S3599
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)

SIGNAL PLANS
RTE. N & UNIVERSITY PLACE DR.

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

D-37D

EFFECTIVE 12/01/2017

SIGNAL FACE LOCATION

50 21 22

81

82

63 62 61

TRAFFIC PHASING AND COLOR SEQUENCE – ACTUATED CONTROLLERS

	PHASE 1	PHASE 2	PHASE 3	PHASE 4	PHASE 5	PHASE 6	PHASE 7	PHASE 8	PED Φ OVERLAP	PED Φ OVERLAP	PED Φ6 OVERLAP	PED Φ8 OVERLAP
FACE NUMBERS		21 22			50	61 62 63		81 82			P1 P5	P2 P4
SIGNAL INDICATIONS R		R R			R	R R R		R R			DW DW	DW DW
SIGNAL INDICATIONS Y		Y Y			Y	Y Y Y		Y Y				
SIGNAL INDICATIONS FYA					FYL							
SIGNAL INDICATIONS G		S S			L	S S L		S L			W W	W W
						R†		R†				
DETECTOR ASSIGNMENTS		21 22			50	61 62 63		81 82				
DETECTOR ASSIGNMENTS (PEDS. ONLY)											P1 P5	P2 P4
OVERLAP PARENT PHASES												

FACE NUMBERS / SIGNAL INDICATIONS (R, Y, FYA, G) / DETECTOR ASSIGNMENTS

	PHASE 1	PHASE 2	PHASE 3	PHASE 4
RING 1				
RING 2				
	PHASE 5	PHASE 6	PHASE 7	PHASE 8

BARRIER

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
- YR† — 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	
RTE. N MAINLINE	FR
UNIVERSITY PL. DR.	FR

CONTROLLER TYPE 8Φ NEMA

TRAFFIC SIGNAL CONTROL OPERATION
RTE. N & UNIVERSITY PLACE DR.
INTERSECTION

DISCLAIMER

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STATE OF MISSOURI
JAMIE F. RANA
NUMBER PE-2005001034
PROFESSIONAL ENGINEER
Jamie F. Rana
01/28/2024 8:11:43 PM
JAMIE F. RANA - CIVIL
MO-PE-2005001034

DATE PREPARED 1/24/2024

ROUTE	STATE
N	MO
DISTRICT	SHEET NO.
SL	157

COUNTY ST. LOUIS

JOB NO. J6S3599

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)

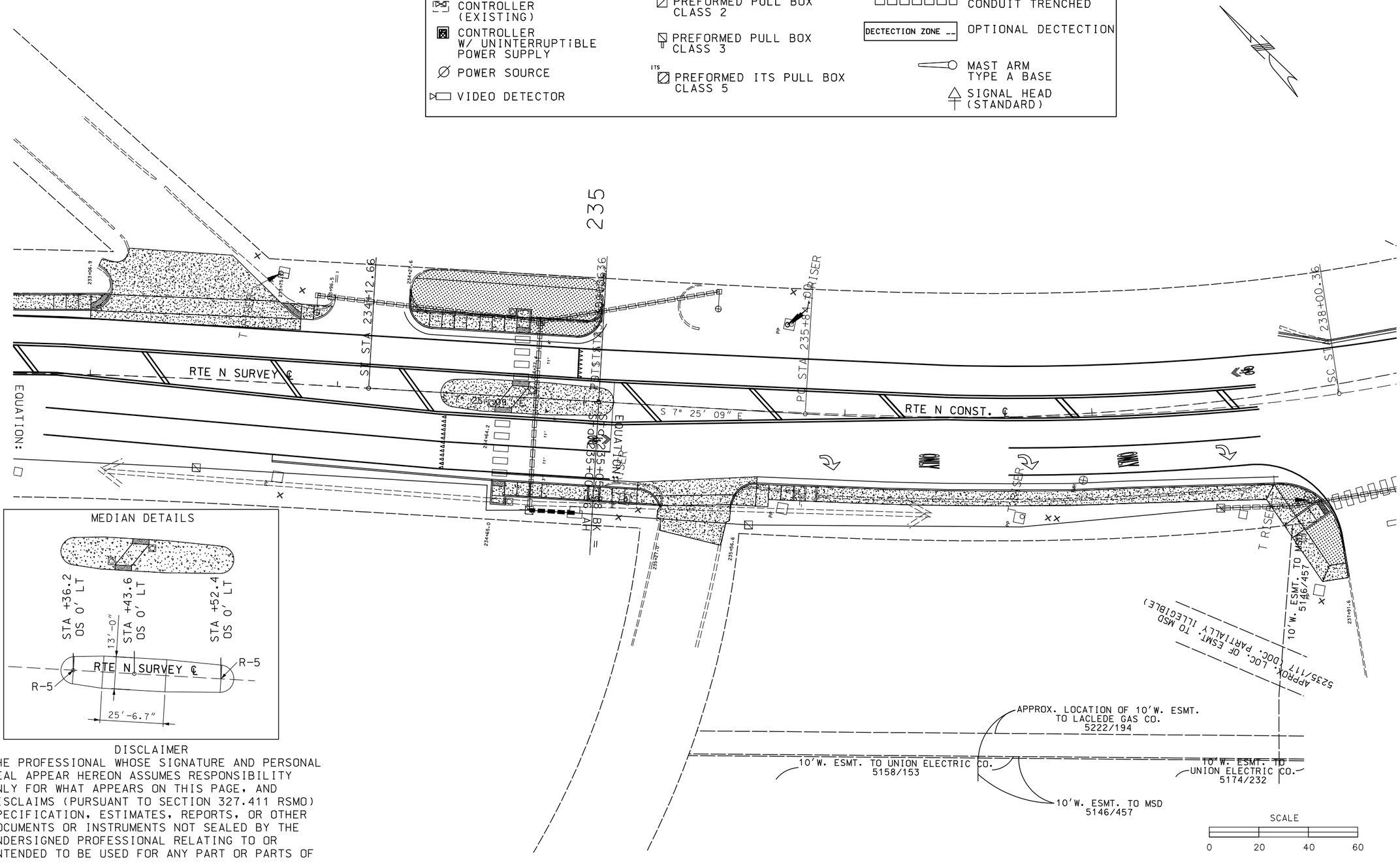
SIGNAL PLANS
RTE. N & UNIVERSITY PLACE DR.

D-38A

LAYOUT INFORMATION
ROUTE N – RRFB

TRAFFIC SIGNALS LEGEND

- CONTROLLER
- CONTROLLER (EXISTING)
- CONTROLLER W/ UNINTERRUPTIBLE POWER SUPPLY
- POWER SOURCE
- VIDEO DETECTOR
- PREFORMED PULL BOX CLASS 2
- PREFORMED PULL BOX CLASS 3
- ITS PREFORMED ITS PULL BOX CLASS 5
- CONDUIT PUSHED
- CONDUIT TRENCHED
- DECTECTION ZONE -- OPTIONAL DECTECTION
- MAST ARM TYPE A BASE
- SIGNAL HEAD (STANDARD)



MEDIAN DETAILS

DISCLAIMER

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STATE OF MISSOURI
JAMIE F. RANA
NUMBER PE-2005001034
PROFESSIONAL ENGINEER
Jamie F. Rana
01/26/2024 8:12:09 PM
JAMIE F. RANA - CIVIL
MO-PE-2005001034

DATE PREPARED
1/24/2024

ROUTE	STATE
N	MO
DISTRICT	SHEET NO.
SL	158

COUNTY
ST. LOUIS

JOB NO.
J6S3599

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

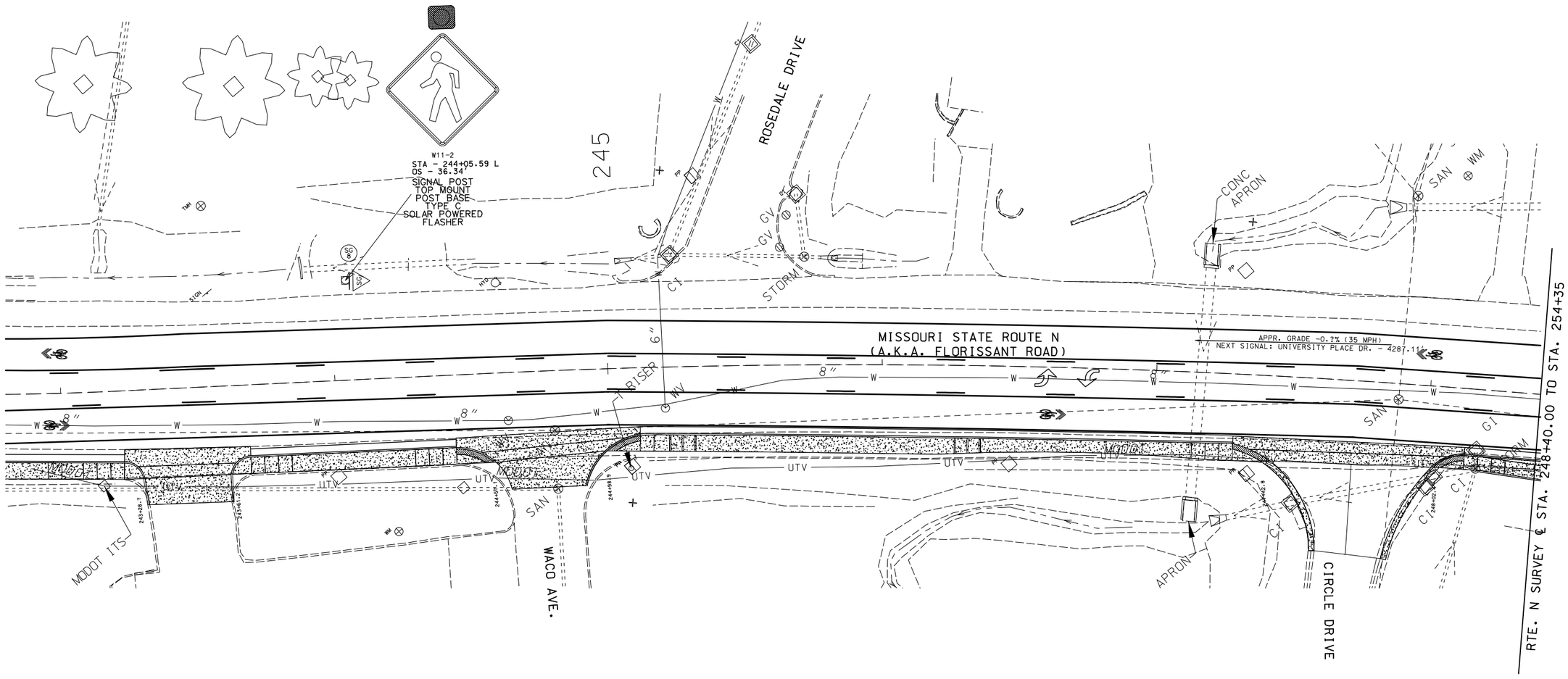
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

PROPOSED
SIGNAL, LIGHTING, AND ITS
RRFB
PLAN SHEET

TRAFFIC SIGNALS LEGEND

- CONTROLLER
- CONTROLLER (EXISTING)
- CONTROLLER W/ UNINTERRUPTIBLE POWER SUPPLY
- POWER SOURCE
- VIDEO DETECTOR
- PREFORMED PULL BOX CLASS 2
- PREFORMED PULL BOX CLASS 3
- ITS PREFORMED ITS PULL BOX CLASS 5
- CONDUIT PUSHED
- CONDUIT TRENCHED
- DECTECTION ZONE -- OPTIONAL DECTECTION
- MAST ARM TYPE A BASE
- SIGNAL HEAD (STANDARD)

RTE N CONST. ℄
PI 246+34.08
PC 244+53.00
PT 248+14.68
Δ 7° 14' 00.0" (RT)
D 1° 59' 59.6"
L 361.68'
T 181.08'
R 2,864.93'



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SCALE
0 20 40 60

STATE OF MISSOURI
JAMIE F. RANA
NUMBER PE-2005001034
PROFESSIONAL ENGINEER
Jamie F. Rana
01/28/2024 8:12:25 PM
JAMIE F. RANA - CIVIL
MO-PE-2005001034

DATE PREPARED
1/24/2024

ROUTE	STATE
N	MO
DISTRICT	SHEET NO.
SL	159

COUNTY
ST. LOUIS

JOB NO.
J6S3599

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

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

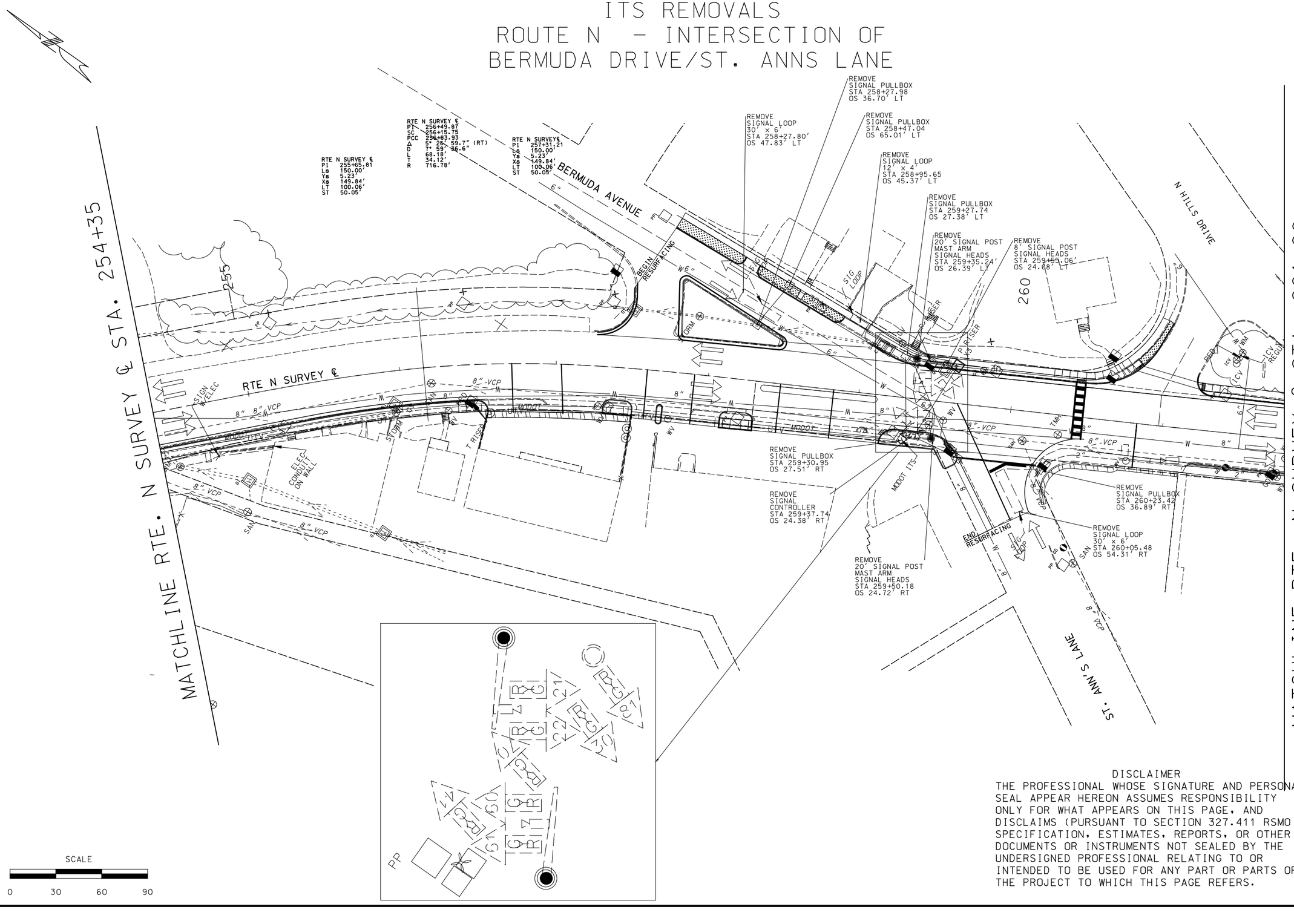
DESCRIPTION	DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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

FLASHER SIGNAL PLAN SHEET

EXISTING SIGNALS, LIGHTING, AND ITS REMOVALS
ROUTE N – INTERSECTION OF BERMUDA DRIVE/ST. ANNS LANE



SCALE
0 30 60 90

DISCLAIMER
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STATE OF MISSOURI
JAMIE F. RANA
NUMBER PE-2005001034
PROFESSIONAL ENGINEER
Jamie F. Rana
01/29/2024 1:09:08 PM
JAMIE F. RANA - CIVIL
MO-PE-2005001034

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

DATE PREPARED: 1/29/2024

ROUTE	STATE
N	MO
DISTRICT	SHEET NO.
SL	160

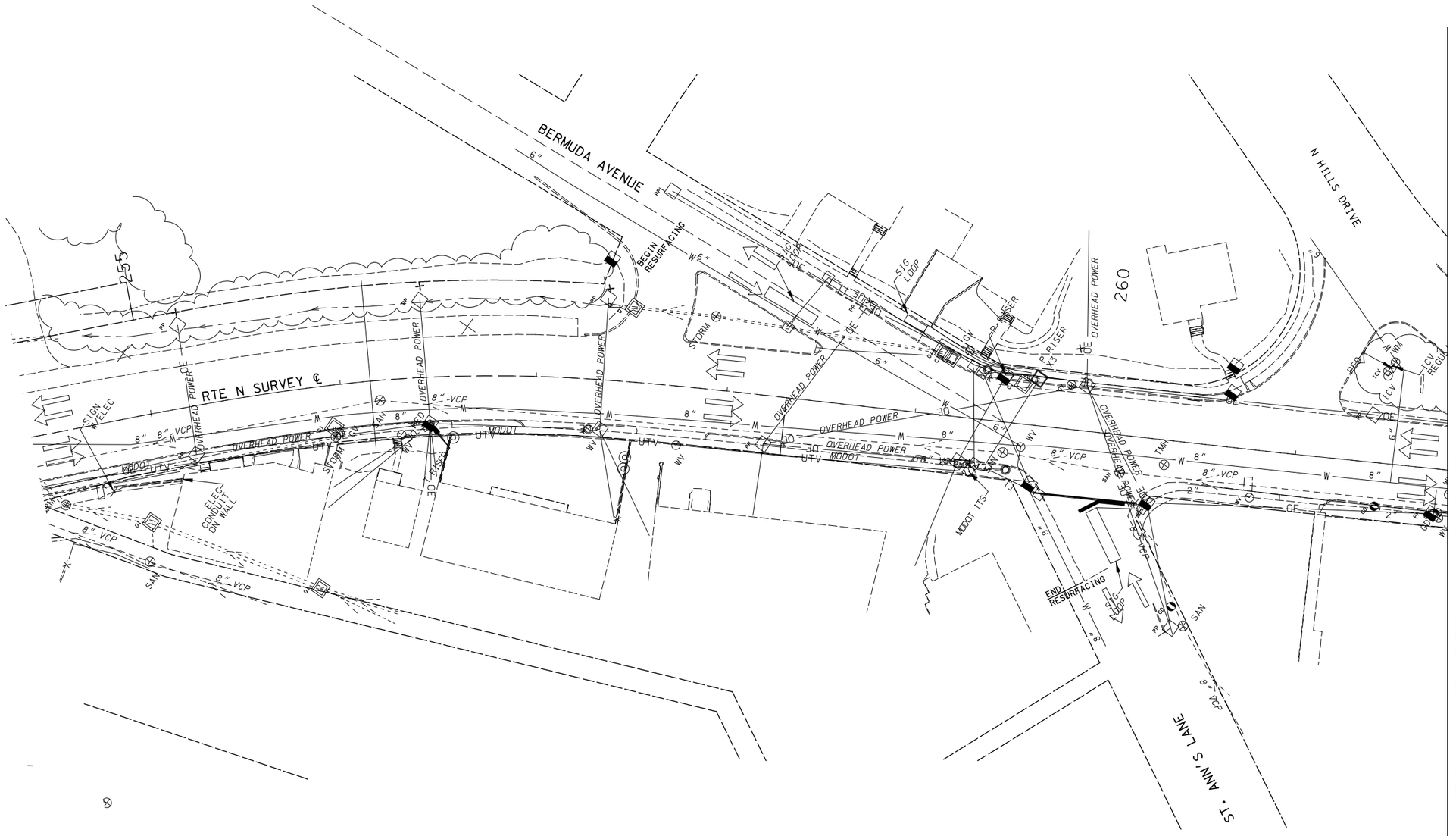
COUNTY: ST. LOUIS
JOB NO.: J6S3599
CONTRACT ID.:
PROJECT NO.:
BRIDGE NO.:

DATE	DESCRIPTION

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

EXISTING SIGNALS, LIGHTING, AND ITS REMOVALS
BERMUDA DRIVE/ST. ANNS LANE
PLAN SHEET

EXISTING UTILITIES LAYOUT
ROUTE N – INTERSECTION OF
BERMUDA DRIVE/ST. ANNS LANE



SCALE

0 30 60 90

DISCLAIMER

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MATCHLINE RTE. N SURVEY ℄ STA. 261+80

STATE OF MISSOURI
JAMIE F. RANA
NUMBER PE-2005001034
PROFESSIONAL ENGINEER

Jamie F. Rana
01/28/2024 8:13:54 PM
JAMIE F. RANA - CIVIL
MO-PE-2005001034

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

DATE PREPARED	
1/24/2024	
ROUTE	STATE
N	MO
DISTRICT	SHEET NO.
SL	161
COUNTY	
ST. LOUIS	
JOB NO.	
J6S3599	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

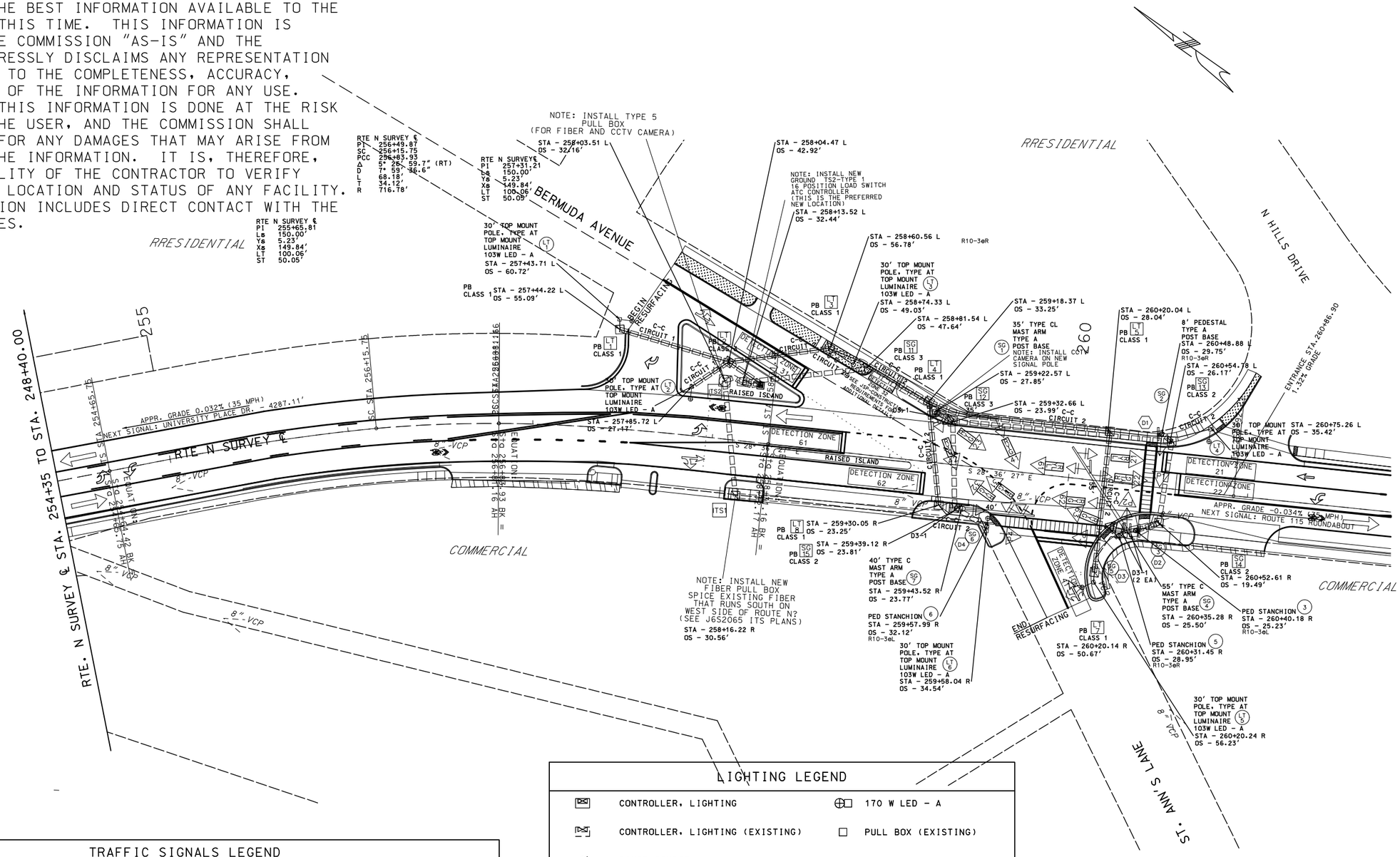
DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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

EXISTING UTILITIES LAYOUT
BERMUDA DRIVE/
ST. ANNS LANE
PLAN SHEET

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.



TRAFFIC SIGNALS LEGEND

- CONTROLLER
- CONTROLLER (EXISTING)
- CONTROLLER W/ UNINTERRUPTIBLE POWER SUPPLY
- POWER SOURCE
- VIDEO DETECTOR
- PREFORMED PULL BOX CLASS 2
- PREFORMED PULL BOX CLASS 3
- ITS PREFORMED ITS PULL BOX CLASS 5
- CONDUIT PUSHED
- CONDUIT TRENCHED
- DETECTION ZONE OPTIONAL DECTECTION
- MAST ARM TYPE A BASE
- SIGNAL HEAD (STANDARD)

SCALE
0 30 60 90

LIGHTING LEGEND

- CONTROLLER, LIGHTING
- CONTROLLER, LIGHTING (EXISTING)
- POWER SOURCE
- PULL BOX CONCRETE TYPE 1
- PULL BOX PREFORMED TYPE 1
- CONDUIT, RIGID (TRENCH)
- CONDUIT, RIGID (MEDIAN)
- CONDUIT, RIGID (EXISTING)
- 170 W LED - A
- PULL BOX (EXISTING)
- PULL BOX CONCRETE TYPE 2
- PULL BOX PREFORMED TYPE 2
- CCTV CAMERA
- CONDUIT, RIGID (PUSHED)
- CABLE-CONDUIT (EXISTING)
- CABLE-CONDUIT

DISCLAIMER

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STATE OF MISSOURI
JAMIE F. RANA
NUMBER PE-2005001034
PROFESSIONAL ENGINEER
Jamie F. Rana
01/28/2024 8:14:28 PM
JAMIE F. RANA - CIVIL
MO-PE-2005001034

DATE PREPARED
1/24/2024

ROUTE	STATE
N	MO
DISTRICT	SHEET NO.
SL	162

COUNTY
ST. LOUIS

JOB NO.
J6S3599

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)

PROPOSED
SIGNAL, LIGHTING, AND ITS
BERMUDA DRIVE/
ST. ANNS LANE
PLAN SHEET

EFFECTIVE: 07/01/2018

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	TOP MOUNT POST 8 FT.	15 FT.	PED STANCHION
		CONTROLLER															1.93														
		UPS															1.29														
1		NE QUAD	258+22.57	27.85′ LT.				1									3.27														
2		SE QUAD	260+48.88	29.75′ LT.													1 0.44												1		
3		SW QUAD	260+40.18	25.23′ RT.													1 0.44	STANCHION												1	
4		SW QUAD	260+35.28	25.50′ RT.				1									3.27														
5		SW QUAD	260+31.45	28.95′ RT.													1 0.44	STANCHION												1	
6		NW QUAD	259+57.99	32.12′ RT.													1 0.44	STANCHION												1	
7		NW QUAD	259+43.52	23.77′ RT.				1									3.27														
8		RT.N	242+01.20	36.34′ LT.													1 0.44												1		
	1	RT.N	244+83.49	34.71′ LT.														1													
	2	RT.N	245+78.33	34.69′ LT.															1											
	3	RT.N	246+50.56	34.82′ LT.															1											
	4	RT.N	248+07.10	35.90′ LT.															1											
	5	RT.N	249+96.38	35.33′ LT.															1											
	6	RT.N	252+04.44	37.53′ LT.															1											
	7	RT.N	254+11.80	37.76′ LT.															1											
	8	RT.N	254+68.31	36.89′ LT.															1											
	9	RT.N	257+18.19	34.29′ LT.															1											
	10	RT.N	257+93.61	32.07′ LT.															1											
	11	RT.N	258+81.54	47.64′ LT.																1										
	12	RT.N	259+22.57	27.85′ LT.																1										
	13	RT.N	260+54.78	26.17′ RT.															1											
	14	RT.N	260+52.61	19.49′ RT.															1											
	15	RT.N	259+39.12	23.81′ RT.															1											
				SUBTOTAL													15.23	1	13	2									1	1	3
				TOTAL													✳✳	✳✳	✳✳	✳✳									✳✳	✳✳	✳✳

POST NUMBER	PULL BOX NUMBER	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.
1				35			34′																																	
2																																										
3					1																																				
4			55			17.5′	36′	40′	51′	41.7′																																
5					1																																				
6					1																																				
7				40			31′	39′																																	
8																																									
	1																																								
	2																																								
	3																																								
	4																																								
	5																																								
	6																																								
	7																																								
	8																																								
	9																																								
	10																																								
	11																																								
	12																																								
	13																																								
	14																																								
	15																																								

EFFECTIVE: 10-01-2015

CONDUIT

FROM	TO	CTR TO CTR DIST.	LOOP DETECT	TRENCHED			PUSHED			MEDIAN			ON STRUCTURE			REMARKS
			1"	2"	3"	4"	2"	3"	4"	2"	3"	4"	2"	3"	4"	
SOURCE	PS/UPS						(4)									(INCLUDED IN COST OF POWER SUPPLY)
PS/UPS	⋈	11						19								3X11'
⋈	11	68						27								
11	12	58						56								
12	1	12						15								
12	13	123						121								
13	2	7						10								
13	14	46						44								
14	3	14						17								
14	4	19						22								
14	5	24						27								
12	15	49						47								
15	6	21						24								
15	7	5						8								
SUBTOTALS			0	0	0	0	0	437	0	0	0	0	0	0	0	
PAY TOTALS			0	0	0	0	0	437	0	0	0	0	0	0	0	

CABLE

FROM	TO	CTR TO CTR DIST.	POWER		CONTROL				LIGHTING		DETECTOR		FIBER	REMARKS
			1c-#2	1c-#8	2c-#16	5c-#16	7c-#16	3c-#16	CONTROL 2c-#12	POLE & BRACKET 1c-#10	VIDEO		24 FIBER SINGLEMODE	
SOURCE	PS-BERMUDA DR/ STANN'S LN	64	(321)											3X64' (INCLUDED IN COST OF POWER SUPPLY)
PS-BERMUDA DR/ STANN'S LN	⋈	11		80										3X11'
⋈	41	138					214							
⋈	42	138					214							
⋈	P1	256				292								
⋈	P1	256			291									
⋈	21	314					422							
⋈	22	314					422							
⋈	23	314					359							
⋈	P2	309				351								
⋈	P2	309			350									
⋈	P3	319				361								
⋈	P3	319			360									
⋈	61	314					422							
⋈	62	314					422							
⋈	63	314					359							
⋈	P4	196				232								
⋈	P4	196			231									
⋈	31	181					268							
⋈	32	181					268							
SUBTOTALS			321	80	1232	1236	3370	0	0	0	0	0	0	
PAY TOTALS				80	1290	1300	3540	0	0	0	0	0	0	INCLUDES 5% FOR SNAKING

NOTE: SEE DIFFERENT QTY. TABULATION FOR FINAL PROJECT PAY TOTALS FOR CONDUIT & CABLE.

INTERSECTION RTE. N & BERMUDA DR./ST. ANN'S LN. D-37B

DISCLAIMER
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STATE OF MISSOURI
JAMIE F. RANA
NUMBER PE-2005001034
PROFESSIONAL ENGINEER
Jamie F. Rana
01/28/2024 8:15:17 PM
JAMIE F. RANA - CIVIL
MO-PE-2005001034

DATE PREPARED
1/24/2024

ROUTE	STATE
N	MO
DISTRICT	SHEET NO.
SL	164

COUNTY
ST. LOUIS

JOB NO.
J6S3599

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)

SIGNAL PLANS
RTE. N & BERMUDA DR./
ST. ANN'S LN.

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

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	SPECIAL UNINTERRUPTIBLE PS GROUND MOUNT	AUXILIARY BREAKER	CONT & SIGNAL LAMPS	MAIN BREAKER		120 VOLT CONTROL CABINET	MAIN BREAKER	CONTRACT FURNISH	UTILITY COMPANY
						SIGNALS	LIGHTING				
BERMUDA DR./ST.ANN'S LN.	258+23.40	32.83' LT	Type UPS (SEE SPECIAL)	15 Amps	100 Amps	Amps	Amps		Amps	Ci. Ft.	AMEREN POLE# -
			Type	15 Amps	Amps	Amps	Amps		Amps	Ci. 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									
APPROACH	STATION	OFFSET	NEMA	170	NEMA	170	I	II	MASTER	LOCAL		NEMA	170	FIBER		E	EV	DOUBLE	332	336S	BITRAN	WAPITI
BERMUDA DR./ST.ANN'S LN.	258+13.52	33.44' LT			1																

'X' INDICATES APPROACH TO REQUIRE OPTIONAL DETECTION AS PART OF DETECTION SYSTEM FOR INTERSECTION.

NEMA DETECTOR ASSIGNMENT

		CARD POSITION							
		1	2	3	4	5	6	7	8
CHANNEL	1								
	2								

TOTAL NUMBER OF DETECTOR CARDS(2-CHANNEL) = (2)

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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 ✳✳✳	90 X 18	11.25	22.50	2
2	D3-1B ✳✳✳	60 X 18	7.5	15.0	2
2	R10-3eL	9 X 15	0.9	(1.8)	(2)
2	R10-3eR	9 X 15	0.9	(1.8)	(2)
2	R10-11A	30 X 36	7.5	15.0	2
	R10-13	36 X 24	6.0		
	R10-27A	30 X 36	7.5		
2	W11-2	36 X 36	9.0	9.0	1
			SUBTOTAL	61.50	7
			TOTAL	°°	°°

°° INDICATES SEE QTY. SHEETS FOR FINAL PAY TOTALS.

DETECTOR SCHEDULE

DETECTOR NUMBER	APPROACH	DETECTOR ZONE	TYPE					
			PRESSURE ACTIVATED PUSH BUTTON	INDUCTION LOOP (2)			VIDEO	OPTIONAL DETECTION (3)
				STANDARD	DELAY/ EXTEND ✳	CALL UNIT ✳		
21	NB RTE. N - LT.	STOP BAR						X
22	NB RTE. N	STOP BAR						
23	SB RTE. N	STOP BAR						
31	WB ON BERMUDA DR.	STOP BAR						X
32	ENT. OFF BERMUDA	STOP BAR						
61	SB RTE. N	STOP BAR						X
62	SB RTE. N - LT.	STOP BAR						
63	NB RTE. N	STOP BAR						
41	EB ON ST. ANN'S LN.	STOP BAR						X
P1	WALK EAST/WEST (RTE. N)		1					
P2	WALK EAST/WEST (RTE. N)		1					
P3	WALK SOUTH (ST. ANN'S LN.)		1					
P4	WALK NORTH (ST. ANN'S LN.)		1					
			1					
		SUBTOTALS	4					1

NEMA LOAD SWITCH ASSIGNMENTS

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
N/U	Ø2 NB	Ø3 WB	Ø4 EB	N/U	Ø6 SB	N/U	EXC PED	N/U	N/U	N/U	N/U	N/U	N/U	N/U	N/U

( ) INDICATES SIGNS TO BE INCLUDED AS PART OF APS (AUDIBLE PED. PUSHBUTTON & SIGNING w/ VERBAL WALK MESSAGE).

(1) MoDOT "D" PLUG SHALL BE WIRED INTO ALL NEMA CONTROLLERS WITH 7C HARDWIRE INTERCONNECT.

(2) SEE ADVANCED TRAFFIC CONTROLLER JSP FOR ADDITIONAL DETAILS.

(3) SEE OPTIONAL DETECTION JSP FOR ADDITIONAL DETAILS. SIGNAL DETECTION SHALL BE PAID AS 1 PER INTERSECTION, INCLUDING ADVANCED DETECTION. THE CONTRACTOR SHALL PROVIDE AND INSTALL A VEHICLE DETECTION SYSTEM FULLY COVERING ALL 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) SEE MODOT TS2 TYPE 1 CABINET ASSEMBLY JSP FOR ADDITIONAL DETAILS.

(5) SEE 120 VOLT IP ADDRESSABLE POWER STRIP JSP FOR ADDITIONAL DETAILS.

RTE. N & BERMUDA DR./ST.ANNS LN.

INTERSECTION

D-37C

STATE OF MISSOURI
JAMIE F. RANA
NUMBER PE-2005001034
PROFESSIONAL ENGINEER
Jamie F. Rana
01:28:2024 8:15:36 PM
JAMIE F. RANA - CIVIL
MO-PE-2005001034

DATE PREPARED
1/24/2024

ROUTE	STATE
N	MO
DISTRICT	SHEET NO.
SL	165

COUNTY
ST. LOUIS

JOB NO.
J6S3599

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION	DATE

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

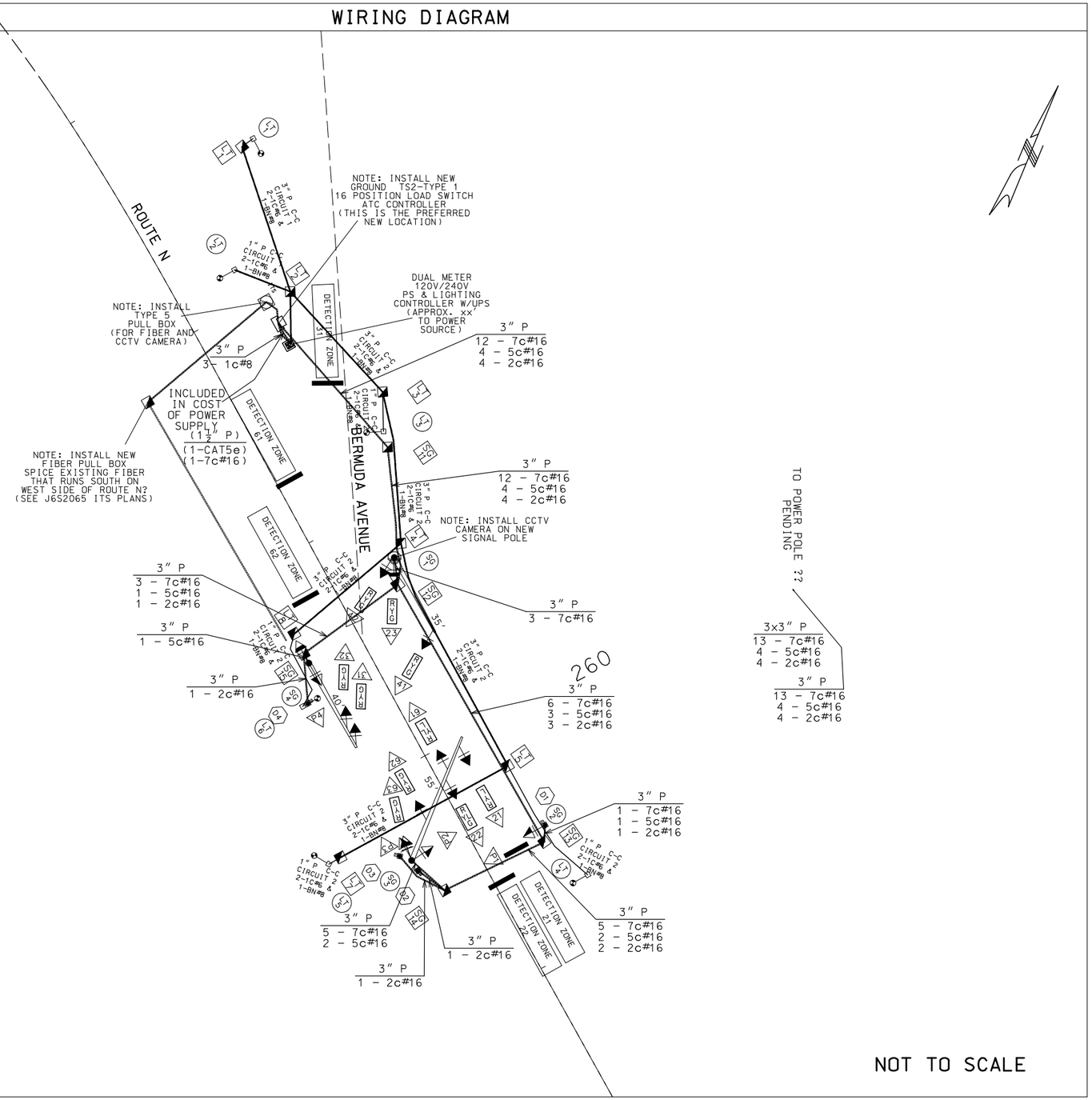
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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

SIGNAL PLANS
RTE. N & BERMUDA DR./
ST.ANNS LN.

EFFECTIVE 12-01-17

WIRING DIAGRAM



NOT TO SCALE

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LEGEND

- 3" — CONDUIT CONTAINING CABLE WITH SIZE
- CABLE
- X–Xc — MULTI-CONDUCTOR CABLE #16 AWG (UNLESS OTHERWISE INDICATED)
- LIC — #14 AWG DETECTOR LEAD-IN CABLE (2C TWISTED SHIELDED)
- 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
- POWER SUPPLY
- LIGHTING CONTROLLER
- INTERSECTION DETECTION ZONE
- ITS — ITS PULL BOX
- LOCATION OF STATION & OFFSET
- UNINTERRUPTIBLE POWER SUPPLY & LIGHTING CONTROL STATION
- LOCATION OF STATION & OFFSET
- NEW SIGNAL CABINET
- AMEREN MISSOURI POWER POLE
- EXIST. SIGNAL CABINET

ROUTE N – BERMUDA DR./ ST. ANN'S LN. (MODOT SIGNALS – NEW)

INTERSECTION

D-37D

STATE OF MISSOURI
JAMIE F. RANA
NUMBER PE-2005001034
PROFESSIONAL ENGINEER
Jamie F. Rana
01/28/2024 8:15:56 PM
JAMIE F. RANA - CIVIL
MO-PE-2005001034

DATE PREPARED
1/24/2024

ROUTE	STATE
N	MO
DISTRICT	SHEET NO.
SL	166

COUNTY
ST. LOUIS

JOB NO.
J6S3599

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

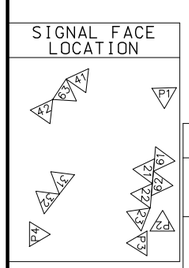
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

SIGNAL PLANS
RTE. N & BERMUDA DR./
ST. ANN'S LN.

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

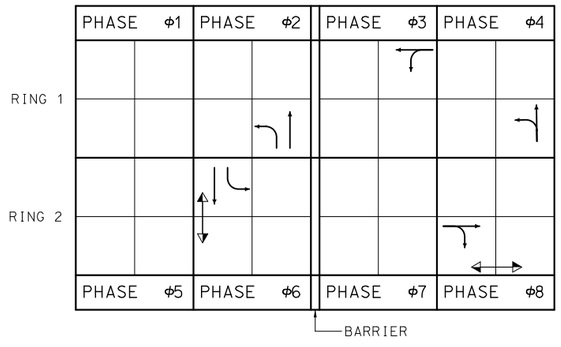
EFFECTIVE 12/01/2017

SIGNAL FACE LOCATION



TRAFFIC PHASING AND COLOR SEQUENCE – ACTUATED CONTROLLERS

	PHASE 1	PHASE 2	PHASE 3	PHASE 4	PHASE 5	PHASE 6	PHASE 7	PHASE 8	PED Φ 4 OVERLAP	PED Φ 6 OVERLAP	PED Φ OVERLAP	PED Φ OVERLAP	
FACE NUMBERS		21 22 23	31 32	41 42		61 62 63			P1 P2	P3 P4			FACE NUMBERS
SIGNAL INDICATIONS R		R R	R R	R R		R R			DW	DW			R
SIGNAL INDICATIONS Y		YL Y	Y Y	Y Y		Y YL							Y
SIGNAL INDICATIONS FYA													FYA
SIGNAL INDICATIONS G		L G	G G	G G		G L			W	W			G
DETECTOR ASSIGNMENTS		21 22 23	31 32	41		61 62 63							DETECTOR ASSIGNMENTS
DETECTOR ASSIGNMENTS (PEDS. ONLY)									P1 P2	P3 P4			
OVERLAP PARENT PHASES													



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
- YR† — 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	
BERMUDA DR.	FR
ST. ANN'S LN.	FR

CONTROLLER TYPE 8Φ NEMA

TRAFFIC SIGNAL CONTROL OPERATION
RTE. N & BERMUDA DR./ST. ANN'S LN.
INTERSECTION

DISCLAIMER
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STATE OF MISSOURI
JAMIE F. RANA
NUMBER PE-2005001034
PROFESSIONAL ENGINEER
Jamie F. Rana
01/28/2024 8:16:14 PM
JAMIE F. RANA - CIVIL
MO-PE-2005001034

DATE PREPARED 1/24/2024

ROUTE	STATE
N	MO
DISTRICT	SHEET NO.
SL	167

COUNTY ST. LOUIS

JOB NO. J6S3599

CONTRACT ID.

PROJECT NO.

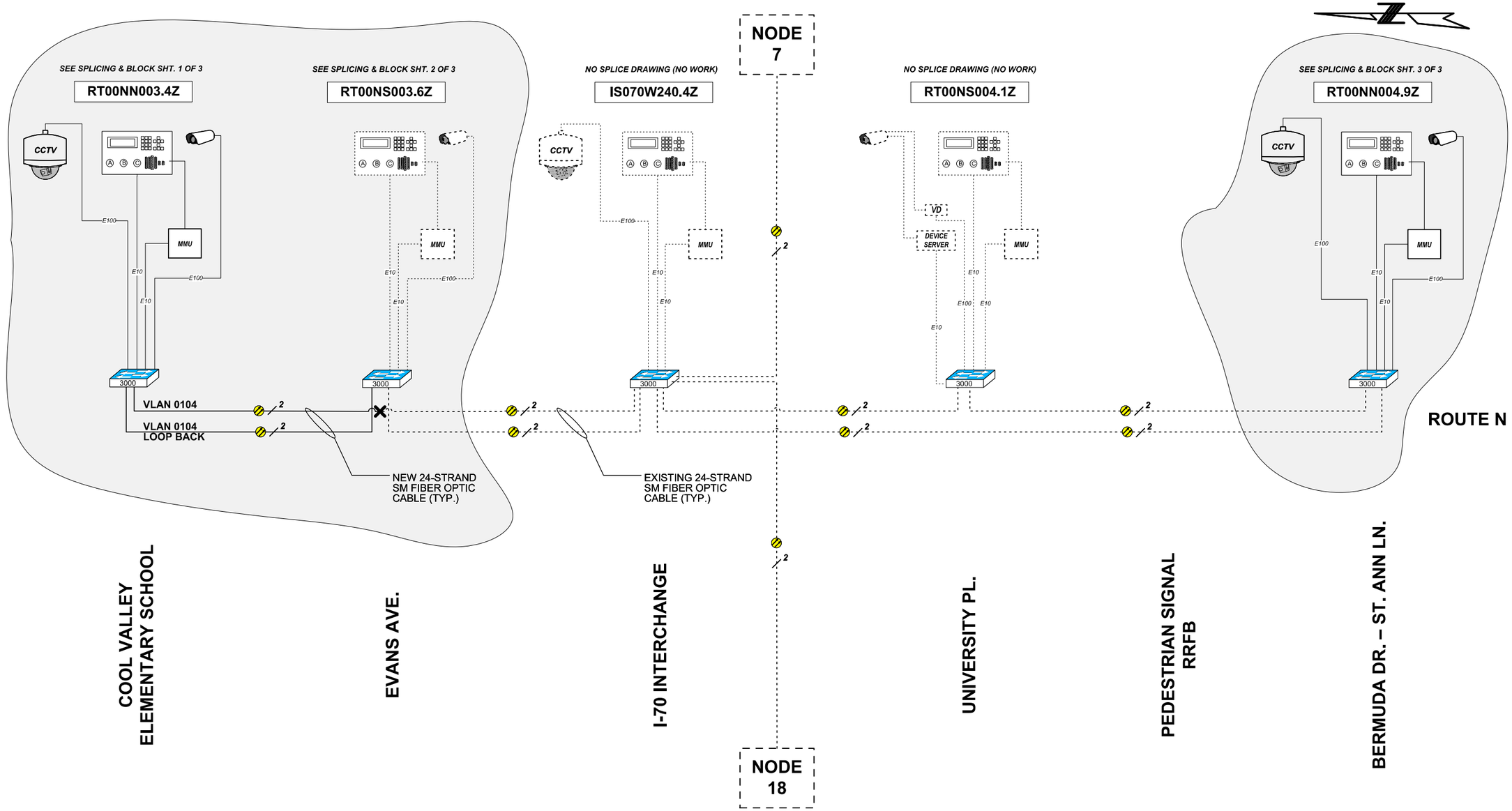
BRIDGE NO.

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)

SIGNAL PLANS
RTE. N & BERMUDA DR./
ST. ANN'S LN.



NOTE:
1) DASHED LINES INDICATE EXISTING EQUIPMENT OR CABLING.
2) ALL FIBER SPLICES ARE NOT SHOWN. SEE SLICE DIAGRAMS.

CONNECTION DETAIL ROUTE N (FLORISSANT RD.) SHEET 1 OF 1

- MI055E001.8T — DEVICE IDENTIFIER
- CCTV — EXISTING/PROPOSED CCTV CAMERA
- DMS — EXISTING/PROPOSED DYNAMIC MESSAGE SIGN
- 2950 — EXISTING CISCO 2950 SWITCH
- 3000 — EXISTING CISCO 3000 SWITCH
- 3300 — PROPOSED CISCO 3300 SWITCH
- EXISTING/PROPSED TRAFFIC SIGNAL CONTROLLER
- MMU — MALFUNCTION MANAGEMENT UNIT
- POWER INJECTOR — CISCO 1400 AIRONET POWER INJECTOR
- CISCO 1400 AIRONET WIRELESS ETHERNET BRIDGE
- MC — MEDIA CONVERTER
- FO DATA MODEM — FIBER OPTIC DATA MODEM
- E10 — 10 MBPS ETHERNET
- E100 — 100 MBPS ETHERNET
- VIDEO DETECTION SYSTEM
- VDS AP — SENSYS DETECTION SYSTEM
- VD — IP VIDEO ENCODER
- DEVICE SERVER — DEVICE SERVER
- CONTINUOUS TRACKING ADVANCED DETECTOR SYSTEM
- FIBER OPTIC CABLE
- COAX CABLE
- TWISTED PAIR CABLE
- EXISTING/PROPOSED FUSION SPLICE
- 10/100 MBPS ETHERNET LINK
- OC-48 LINK
- OC-12 LINK
- PROPOSED CABLE
- EXISTING CABLE
- WIRELESS CONNECTION

STATE OF MISSOURI
CHARLES A. MILLER
NUMBER E-2022000808
REGISTERED PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED, AND DATED ELECTRONICALLY.

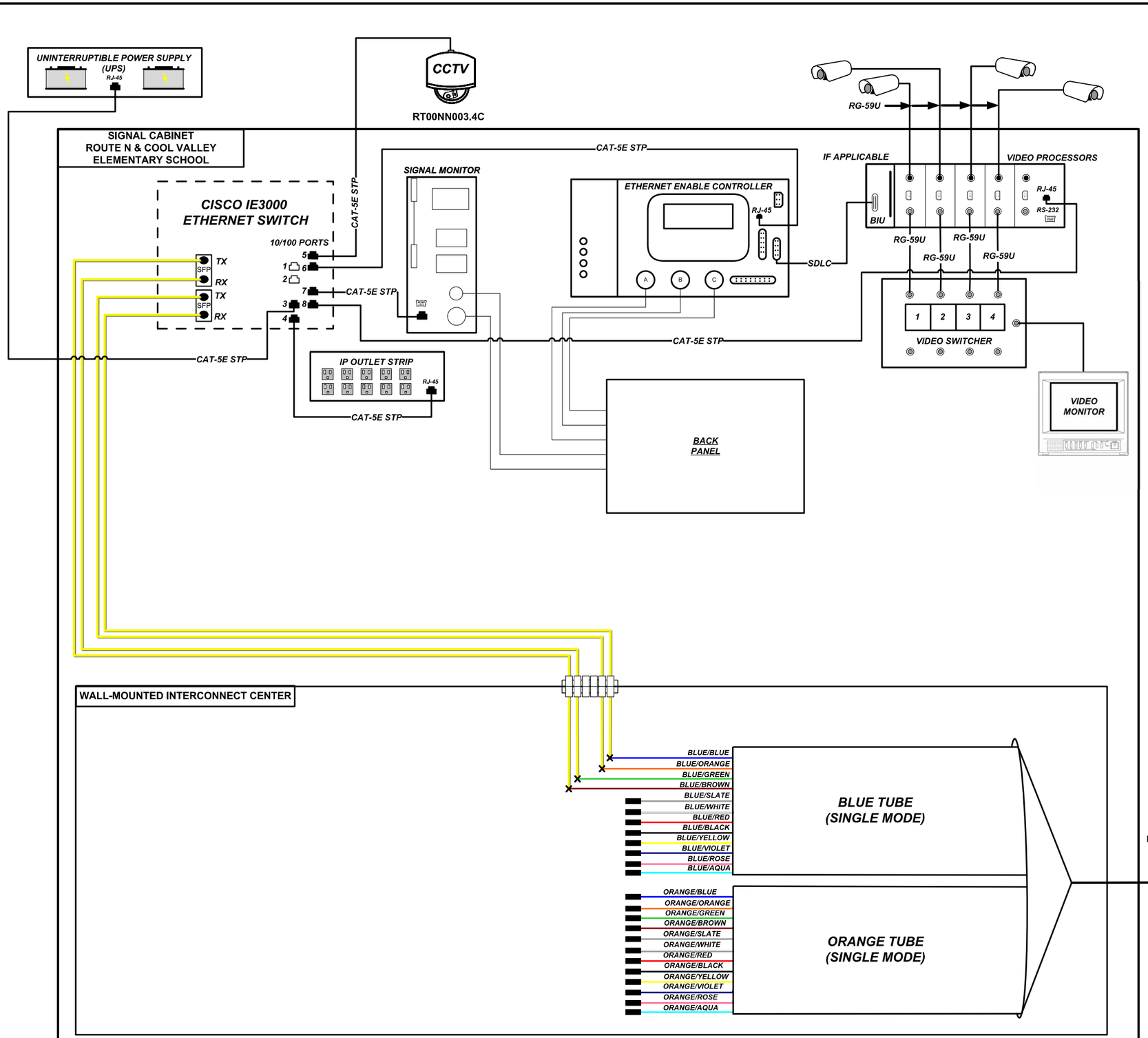
DATE PREPARED: 12/29/2023
ROUTE: N | STATE: MO
DISTRICT: SL | SHEET NO.: 168
COUNTY: ST. LOUIS
JOB NO.: J6S3599
CONTRACT ID.:
PROJECT NO.:
BRIDGE NO.:

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

DESCRIPTION | DATE | REV.

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

J6S3599_Local Overview_v2.vsdx 12/29/2023



NEW 24 CT SM FIBER OPTIC CABLE SOUTH ALONG ROUTE N TO EVANS AVE. RT00NS003.6Z

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.

VLAN
VL0104

FIBER SPLICING & BLOCK DIAGRAM
RT00NN003.4Z
ROUTE N & COOL VALLEY ELEMENTARY SCHOOL
SHEET 1 OF 3

STATE OF MISSOURI
CHARLES A. MILLER
NUMBER E-2002000606
REGISTERED PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED, AND DATED ELECTRONICALLY.

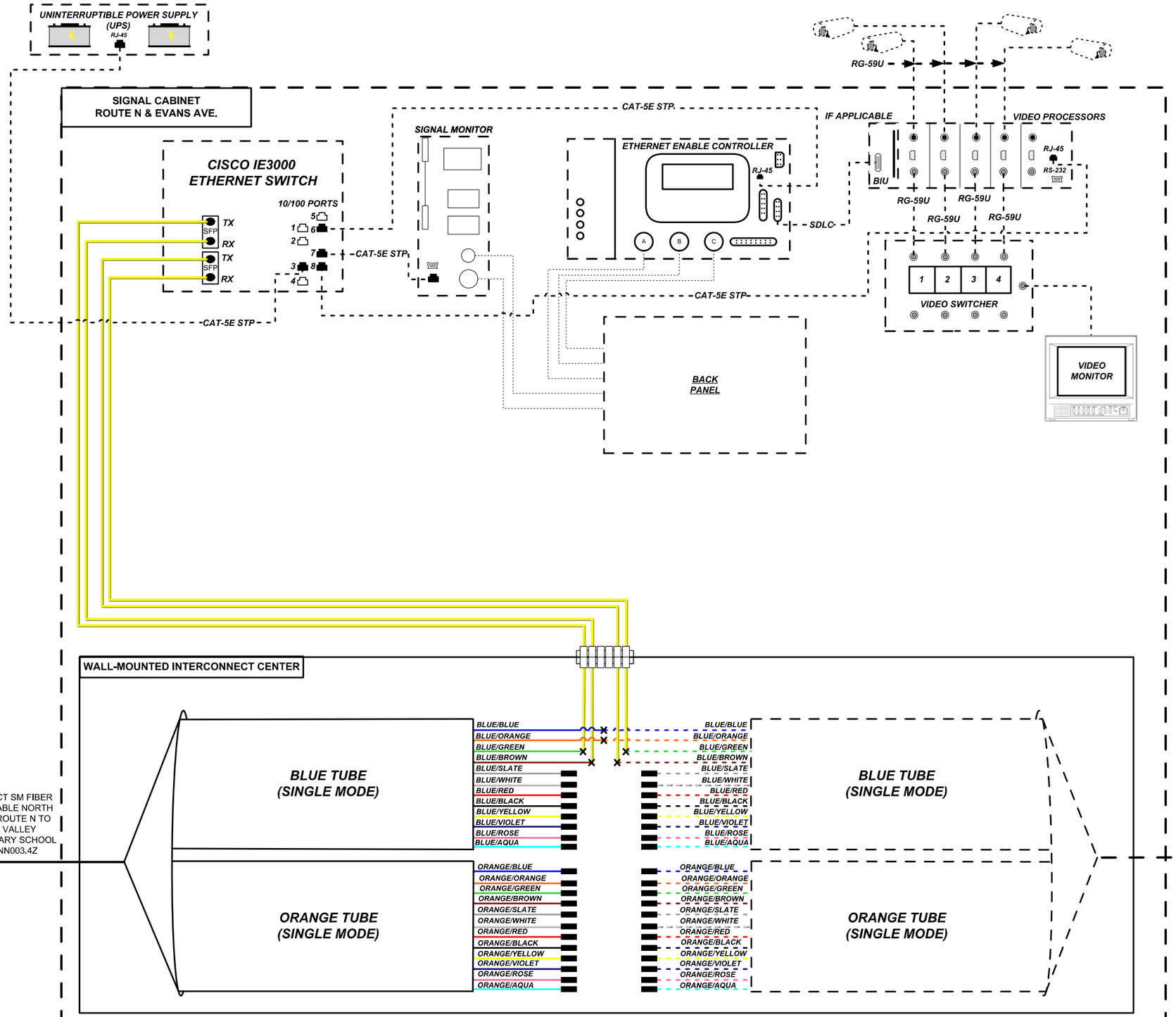
DATE PREPARED	11/02/2023
ROUTE	N
STATE	MO
DISTRICT	SL
SHEET NO.	169
COUNTY	ST. LOUIS
JOB NO.	J6S3599
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

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)

REV.



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.

VLAN VL0104

FIBER SPLICING & BLOCK DIAGRAM

RT00NS003.6Z
ROUTE N & EVANS AVE.

SHEET 2 OF 3

STATE OF MISSOURI
CHARLES A. MILLER
NUMBER E-2002000606
REGISTERED PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED, AND DATED ELECTRONICALLY.

DATE PREPARED	11/02/2023
ROUTE	N
STATE	MO
DISTRICT	SL
SHEET NO.	170
COUNTY	ST. LOUIS
JOB NO.	J6S3599
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

DESCRIPTION | DATE

REV.

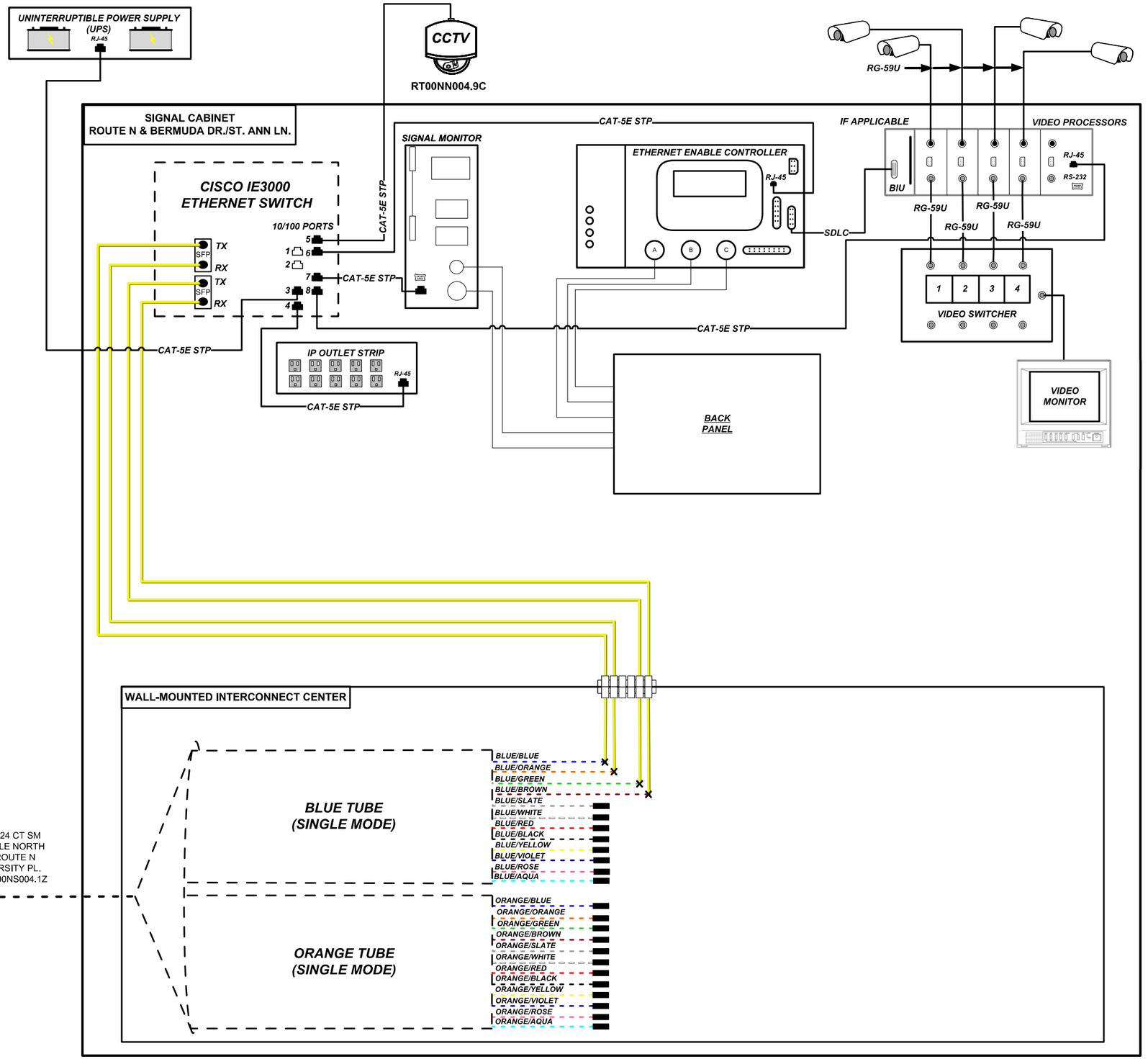
IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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

MoDOT

J6S3599_Splicing_v2.VSDX 11/02/2023



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.

VLAN
VL0104

FIBER SPLICING & BLOCK DIAGRAM
RT00NN004.9Z
ROUTE N AT
BERMUDA DR./ST. ANN LN.
SHEET 3 OF 3

STATE OF MISSOURI
CHARLES A. MILLER
NUMBER E-2002000606
REGISTERED PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED, AND DATED ELECTRONICALLY.

DATE PREPARED	11/02/2023
ROUTE	N
STATE	MO
DISTRICT	SL
SHEET NO.	171
COUNTY	ST. LOUIS
JOB NO.	J6S3599
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)

REV.

DISCLAIMER
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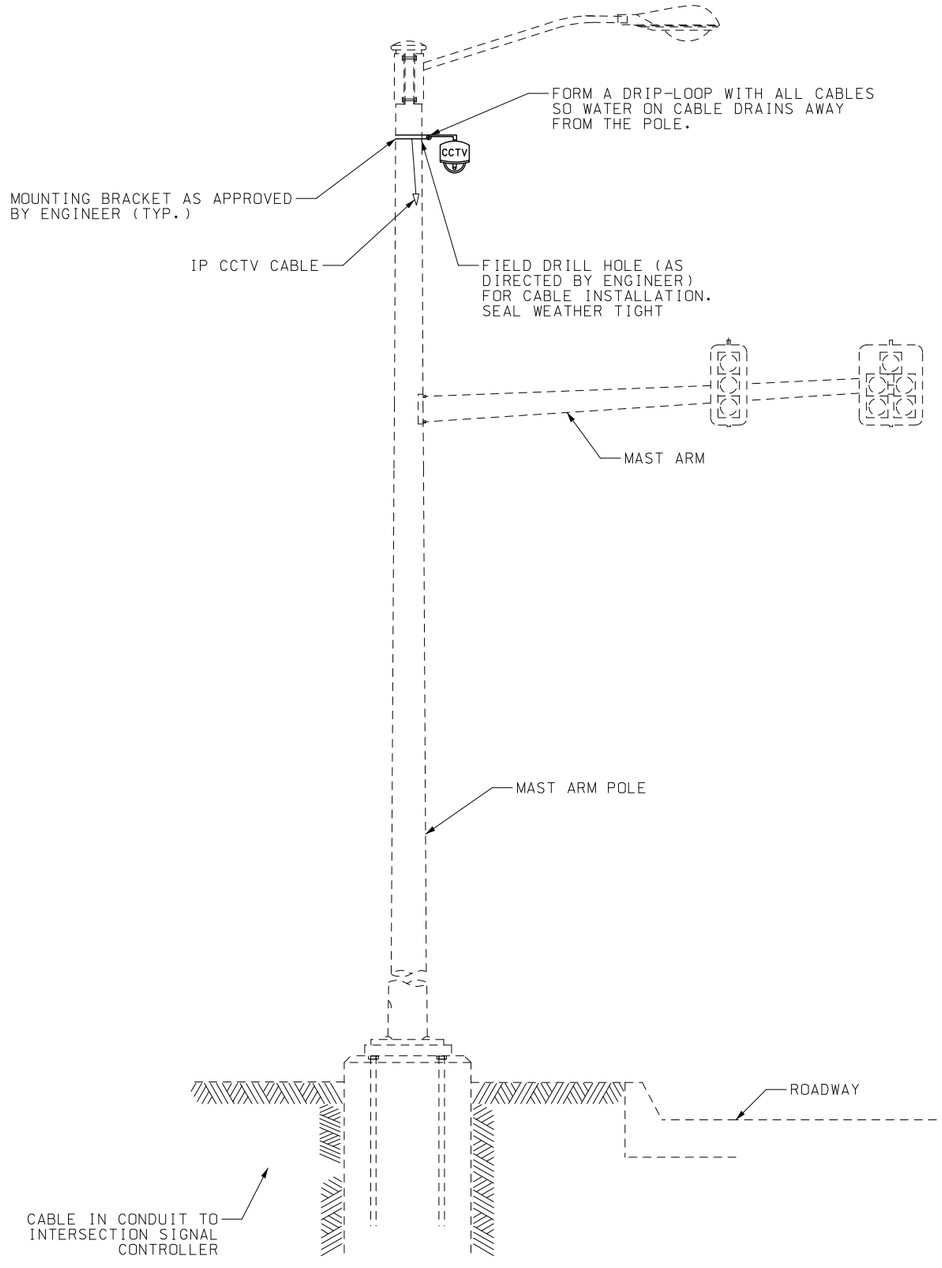

CCTV MOUNTING ON EXISTING SIGNAL POLE WITH LIGHT

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.

STATE OF MISSOURI
JAMIE F. RANA
NUMBER PE-2005001034
PROFESSIONAL ENGINEER
Jamie F. Rana
01/27/2024 3:04:24 PM
JAMIE F. RANA - CIVIL
MO-PE-2005001034

DATE PREPARED
1/24/2024

ROUTE	STATE
N	MO
DISTRICT	SHEET NO.
SL	172

COUNTY
ST. LOUIS

JOB NO.
J6S3599

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)

SPECIAL SHEET
CCTV MOUNTING DETAILS

DISCLAIMER
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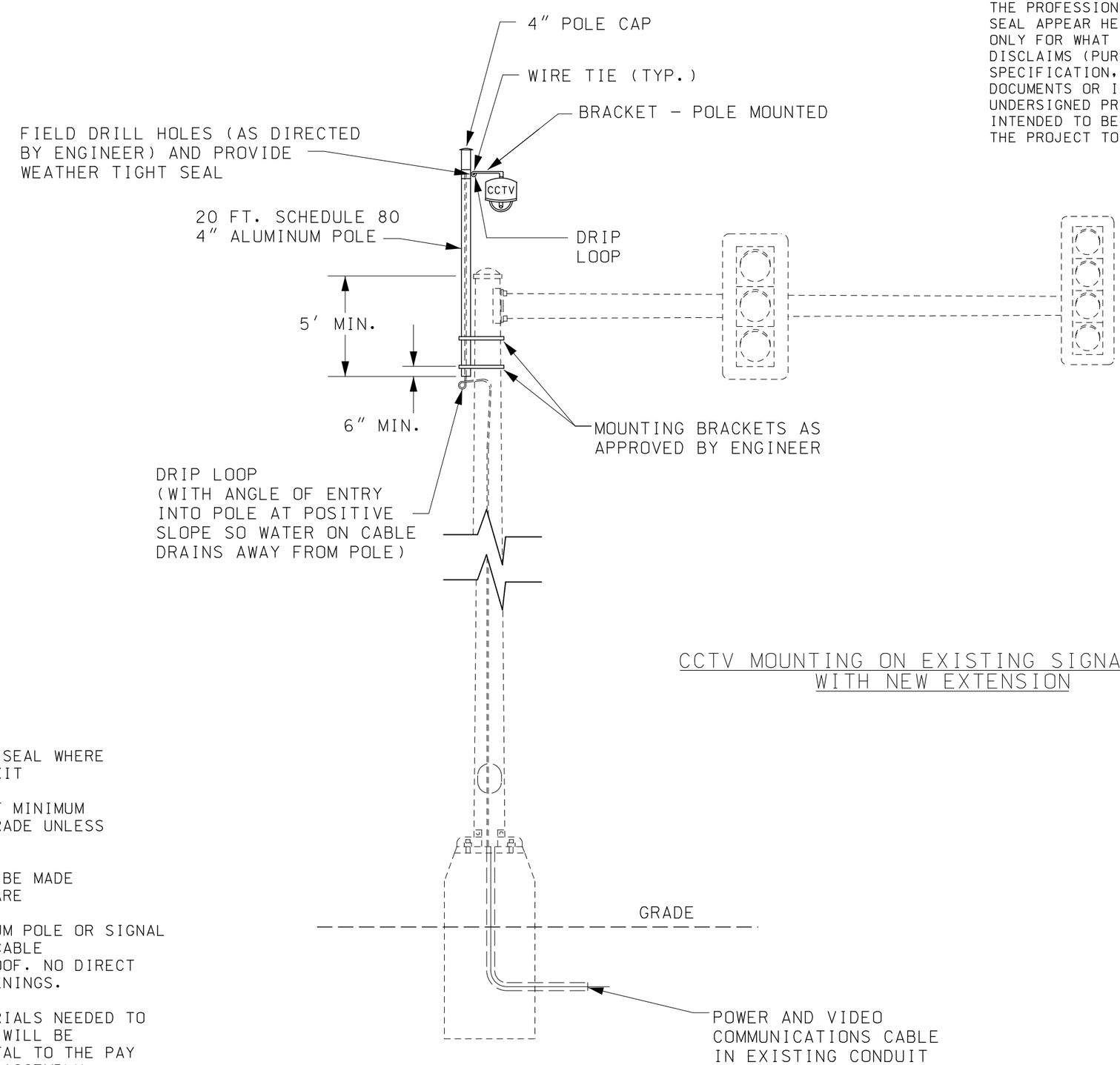


CCTV MOUNTING ON EXISTING SIGNAL POLE WITH NEW EXTENSION

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.

ALL LABOR AND MATERIALS NEEDED TO COMPLETE THIS WORK WILL BE CONSIDERED INCIDENTAL TO THE PAY ITEMS "CCTV CAMERA ASSEMBLY, INSTALLED"

NOT TO SCALE

STATE OF MISSOURI
JAMIE F. RANA
NUMBER PE-2005001034
PROFESSIONAL ENGINEER
Jamie F. Rana
01/27/2024 3:04:47 PM
JAMIE F. RANA - CIVIL
MO-PE-2005001034

DATE PREPARED
1/24/2024

ROUTE	STATE
N	MO
DISTRICT	SHEET NO.
SL	173

COUNTY
ST. LOUIS

JOB NO.
J6S3599

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

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

DESCRIPTION	DATE

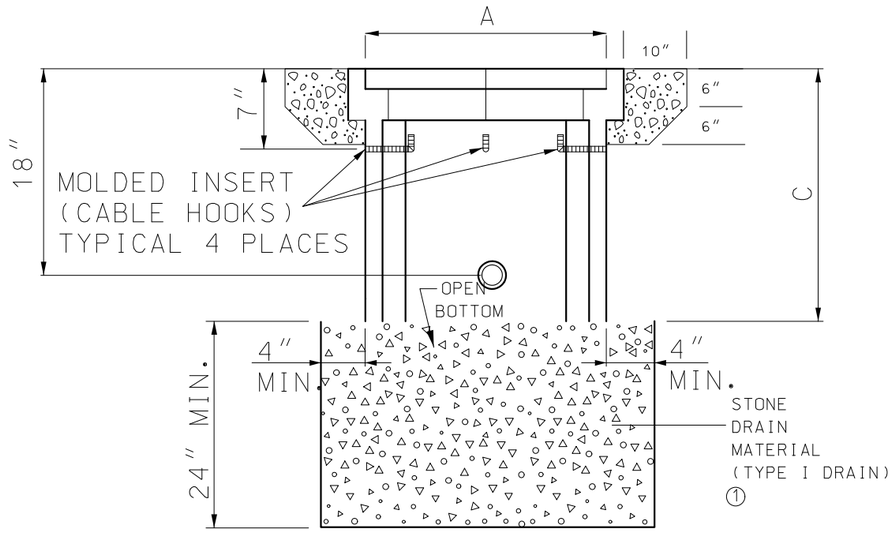
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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

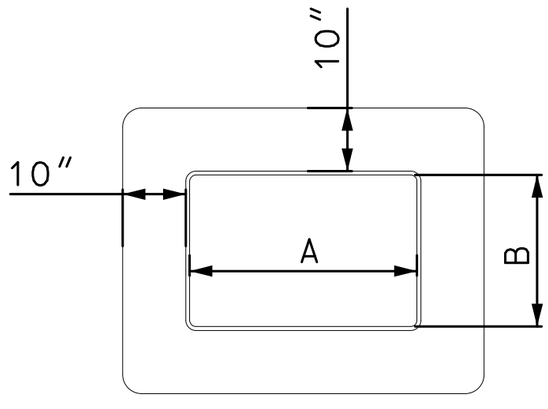
SPECIAL SHEET
CCTV MOUNTING DETAILS

ITS PULL BOXES WITH CONCRETE PADS

CLASS 2 ITS PULLBOX WITH CONCRETE PAD



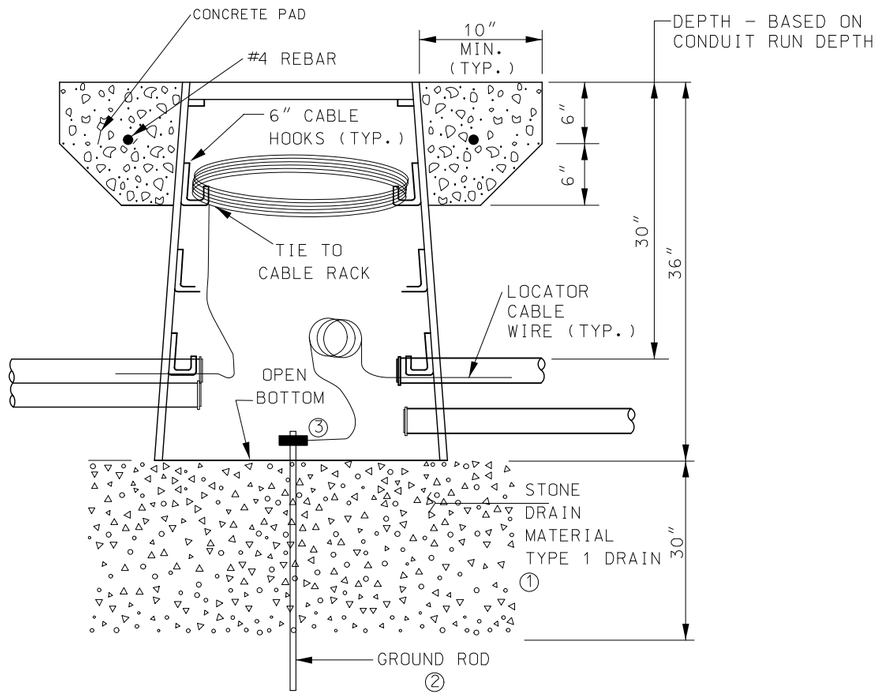
ELEVATION



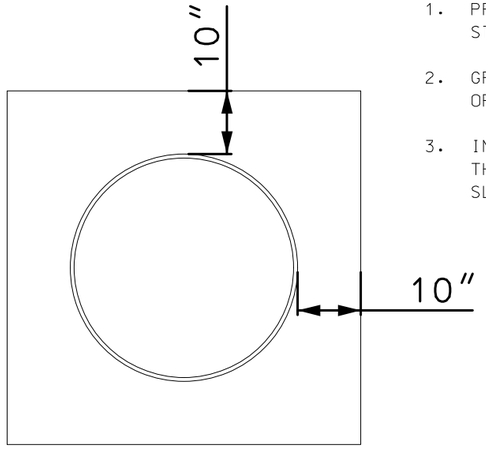
PLAN

FOR PULL BOX DIMENSIONS SEE STANDARD PLAN 902.20

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 PULL BOX NEAREST TO AN ITS OR SIGNAL CABINET.
3. IN THE PULL BOX NEAREST THE ITS OR SIGNAL CABINET, CONNECT THE TRACER WIRE TO A GROUND ROD CLAMP AND PROVIDE 5 FEET OF SLACK.

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STATE OF MISSOURI
JAMIE F. RANA
NUMBER PE-2005001034
PROFESSIONAL ENGINEER
Jamie F. Rana
01/27/2024 3:05:12 PM
JAMIE F. RANA - CIVIL
MO-PE-2005001034

DATE PREPARED
1/24/2024

ROUTE	STATE
N	MO
DISTRICT	SHEET NO.
SL	174

COUNTY
ST. LOUIS

JOB NO.
J6S3599

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION	DATE

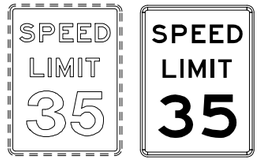
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

SPECIAL SHEET
ITS PULL BOXES
WITH CONC. PADS

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

(R) & REPLACE

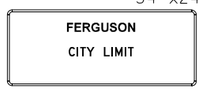
a)



36″ x 48″

b)

5′x2′ I4-2a



54″x24″ I4-2a

(R) & REPLACE

I9-1a

48″ x 36″

UIP

165

126

169+08

167+92

CONC APPRON

WOODSTOCK RD.

123

169+94

R7-1D R7-1D
18″ x 24″
(R) & REPLACE

CITY OF FERGUSON DECORATIVE SIGN (UIP)

PRIVATE SIGN (UIP)

170

SIGN W/ELEC

RISER

RISER

MODOT

MODOT

6″

RTE. N SURVEY ℄

LINE STA. 170+39.00

BROTHERTON LN.

UIP

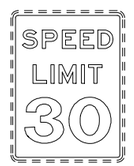
15″ x 20″

168+60

170+00

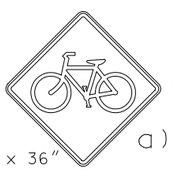
129

(R) & REPLACE



a)

36″ x 48″

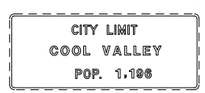


36″ x 36″ W11-1

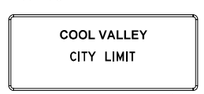
200

a)

b)



I4-2a 6′x2′



6′x2′

(R) & REPLACE

W16-1P

b)

24″ x 30″

DISCLAIMER

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SCALE

0 30 60 90

STATE OF MISSOURI
JAMIE F. RANA
NUMBER PE-2005001034
PROFESSIONAL ENGINEER

Jamie F. Rana
01:28:2024 11:15:39 AM
JAMIE F. RANA - CIVIL
MO-PE-2005001034

DATE PREPARED
1/24/2024

ROUTE	STATE
N	MO
DISTRICT	SHEET NO.
SL	175

COUNTY
ST. LOUIS

JOB NO.
J6S3599

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)

SIGNING PLANS

(R) & REPLACE

S1-1 S1-1 a)

36 x 36"

122

AHEAD AHEAD b)

W16-9P W16-9P

30" x 18"

FLUORESCENT YELLOW-GREEN

(R) ON JOB J613573

OM3-L

12" x 36"

(R) ON JOB J613573

OM3-R

12" x 36"

116

STOP STOP

R1-1 R1-1

36" x 36"

(R) & REPLACE

36" x 36"

W11-1 a)

24" x 30"

201

SHARE THE ROAD b)

W16-1P

177+35

115

NO PARKING ANY TIME

R7-1D

NO PARKING ANY TIME

R7-1D

18" x 24"

(R) & REPLACE

114

117

UIP

METRO BUS

15" x 20"

UIP

METRO BUS

15" x 20"

WELEBA AVE.

173+94

173+01

175+21

177+20

175

171+04

RTE. N SURVEY ℄

MODOT

UTV

OE

G

6"

STORM

SAN

T RISER

SIGN W/ELEC

℄ RTE. N SURVEY ℄ STA. 170+25

℄ RTE. N SURVEY ℄ STA. 177+75

MATCHLINE RTE. N SURVEY ℄ STA. 170+25

MATCHLINE RTE. N SURVEY ℄ STA. 177+75

HAWKESBURY DR.

STORM

COMM CABLE/ WATER ELEC

P RISER

T RISER X2

171+01

PRIVATE SIGN (UIP)

UIP

S. FLORISSANT RD.

HAWKESBURY DR.

124

STOP STOP

R1-1 R1-1

36" x 36"

(R) & REPLACE

(R) & REPLACE

125

S1-1 S1-1 a)

36 x 36"

AHEAD AHEAD b)

W16-9P W16-9P

30" x 18"

FLUORESCENT YELLOW-GREEN

RELOCATE TO NEW LOCATION

174+32

175+32

UIP

S. FLORISSANT RD.

WELEBA AVE.

SCALE

0 30 60 90

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STATE OF MISSOURI
JAMIE F. RANA
NUMBER PE-2005001034
PROFESSIONAL ENGINEER

Jamie F. Rana
(01/29/2024 11:16:00 AM
JAMIE F. RANA - CIVIL
MO-PE-2005001034

DATE PREPARED
1/24/2024

ROUTE	STATE
N	MO
DISTRICT	SHEET NO.
SL	176

COUNTY
ST. LOUIS

JOB NO.
J6S3599

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

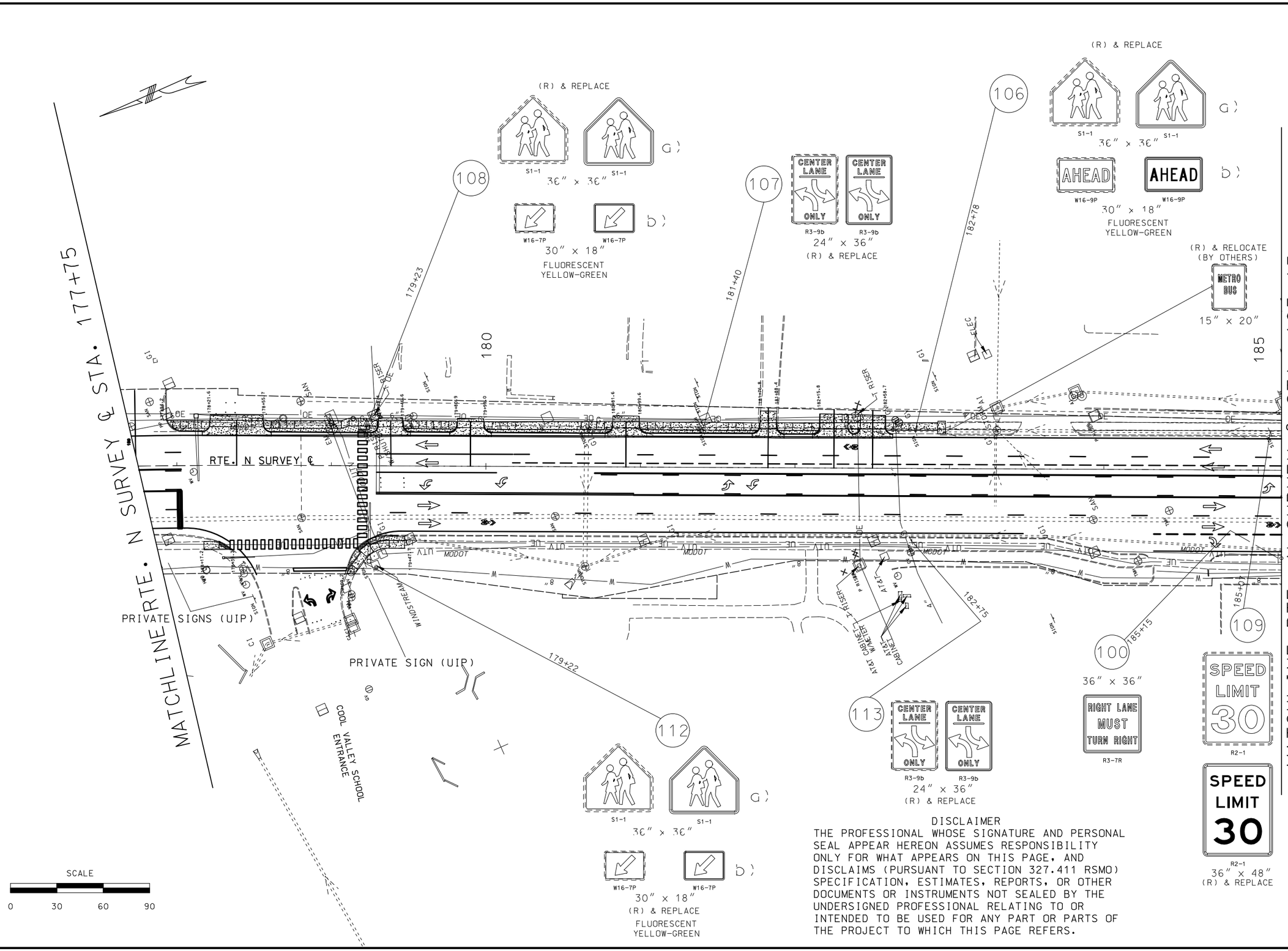
DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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

SIGNING PLANS

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



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STATE OF MISSOURI
JAMIE F. RANA
NUMBER PE-2005001034
PROFESSIONAL ENGINEER

Jamie F. Rana
01/28/2024 11:16:22 AM
JAMIE F. RANA - CIVIL
MO-PE-2005001034

DATE PREPARED
1/24/2024

ROUTE	STATE
N	MO
DISTRICT	SHEET NO.
SL	177

COUNTY
ST. LOUIS

JOB NO.
J6S3599

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)

SIGNING PLANS

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MATCHLINE RTE. N SURVEY ℄ STA. 185+15

MATCHLINE RTE. N SURVEY ℄ STA. 192+55

RTE. N SURVEY ℄

BERNHARDT AVE.

S. FLORISSANT RD.

BERNHARDT AVE

101

185+38

STOP R1-1 STOP R1-1
36″ x 36″
(R) & REPLACE

UIP
METRO BUS
15″ x 20″

(R) & RELOCATE
MoDOT
ADOPT-A-HIGHWAY
Litter Cleanup
IN MEMORY OF
JESSIE B. PRIMER
UNITED BROS. MC CLUB
I9-1a
48″ x 36″

94

192+43

190

102

188+22

YIELD R1-2 YIELD R1-2
48″ TRI.
(R) & REPLACE

103

188+69

W12-1 W12-1
36″ x 36″
(R) & REPLACE

189+11
(R)
R4-7
24″ x 30″

EVANS LN.

105

191+30

NO PARKING ANY TIME R7-1D NO PARKING ANY TIME R7-1D
18″ x 24″
(R) & REPLACE

104

192+40

SPEED LIMIT 30 R2-1
36″ x 48″

SPEED LIMIT 30 R2-1
(R) & REPLACE

SCALE
0 30 60 90

STATE OF MISSOURI
JAMIE F. RANA
NUMBER PE-2005001034
PROFESSIONAL ENGINEER
Jamie F. Rana
01/28/2024 11:16:41 AM
JAMIE F. RANA - CIVIL
MO-PE-2005001034

DATE PREPARED
1/24/2024

ROUTE	STATE
N	MO
DISTRICT	SHEET NO.
SL	178

COUNTY
ST. LOUIS

JOB NO.
J6S3599

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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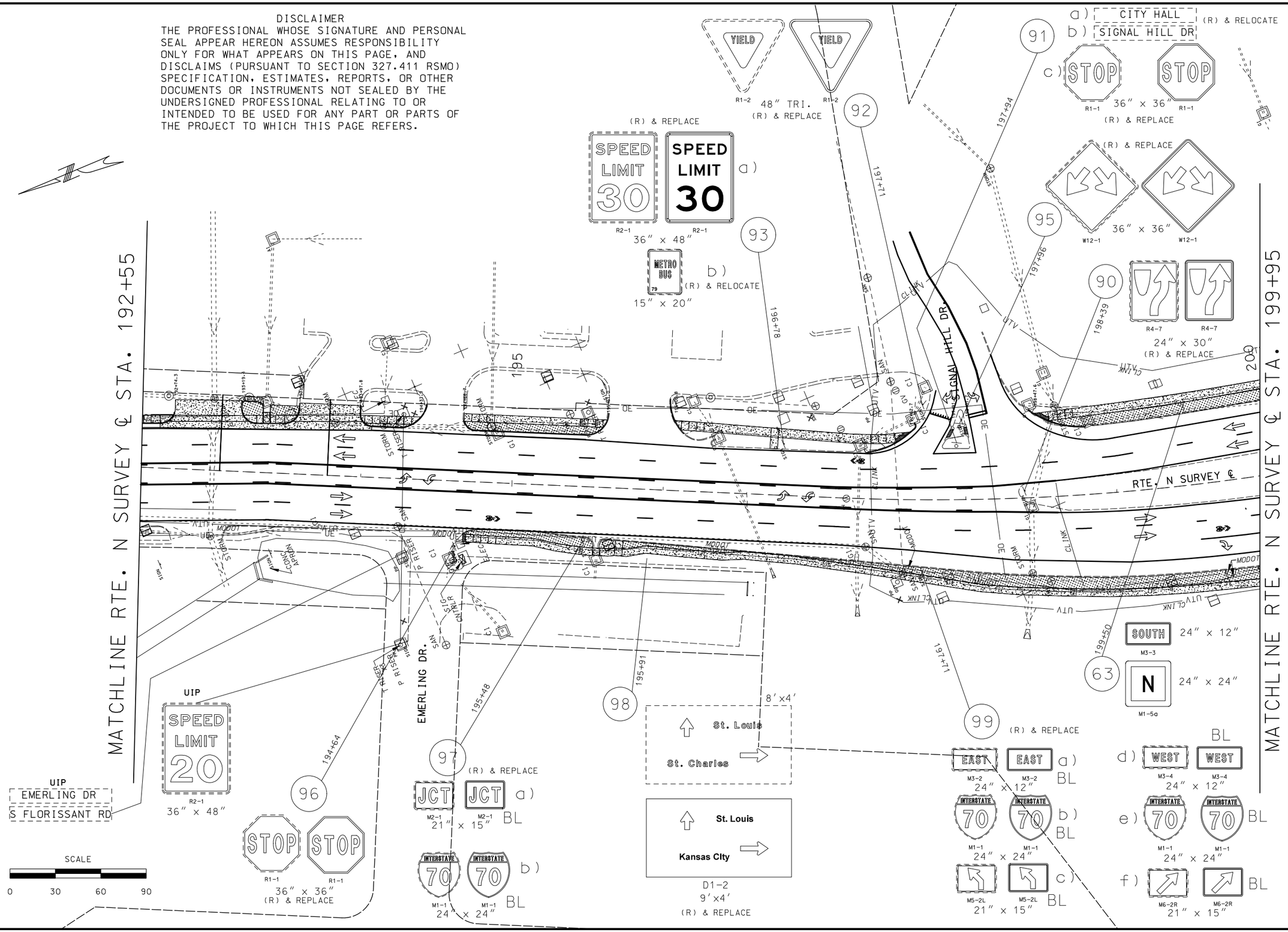

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

STATE OF MISSOURI
JAMIE F. RANA
NUMBER PE-2005001034
PROFESSIONAL ENGINEER
Jamie F. Rana
01/28/2024 11:16:58 AM
JAMIE F. RANA - CIVIL
MO-PE-2005001034

DATE PREPARED: 1/24/2024

ROUTE	STATE
N	MO
DISTRICT	SHEET NO.
SL	179

COUNTY: ST. LOUIS
JOB NO.: J6S3599
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)

SIGNING PLANS

explore ST. LOUIS

⇐ UMSL

⇐ Touhill Arts Center

12′x7′ RELOCATE TO NEW POSTS
12′ WIDTH INCLUDES 1′ OF OVERHANG TO ONE SIDE THAT CAN′T BE USED FOR MOUNTING SIGN

30″x30″ TURNING VEHICLES TO — R10-15R

POT STA 0+00.00

PC STA 0+73.13

PT STA 1+99.58

POT STA 3+54.6

RTE. N. SURVEY ℄

MATCHLINE RTE. N SURVEY ℄ STA. 199+95

MATCHLINE RTE. N SURVEY ℄ STA. 207+35

1-70

STA 0+52.61

86 — 1+81 R3

87 — 1+01 R3

88 — W12-1 — 36″ x 36″

81 — 1+07 R3 — 203+38

(R) & REPLACE 24″ x 30″ — R4-7 R4-7

UIP (REPLACED ON JOB J6I3384)
NOTE: WRONG WAY SIGNS INSTALLED ON EXIST. SIGN TRUSS FURTHER UP RAMP.

54″ x 18″ ONE WAY — R6-1L BK. TO BK.

54″ x 18″ ONE WAY — R6-1R

36″ x 36″ DO NOT ENTER — R5-1

202 — 200+52 — a) — 36″ x 36″ — W11-1

b) SHARE THE ROAD — 24″ x 30″ — W16-1P

YIELD R1-2 YIELD R1-2 — 60″ TRI. (R) & REPLACE

82 — EXIST. 201+91 — NEW 202+15

100′

205

83 — 200+77 — 7′x4′ (R) & REPLACE — WEST INTERSTATE 70 ONLY

84 — 201+83 — 11′x4′ (R) & REPLACE — EAST ONLY INTERSTATE 70 ONLY

OVERHEAD (TRUSS)

WEST INTERSTATE 70 — 8′x6′

EAST INTERSTATE 70 — 11′X6′

OVERHEAD (BRIDGE-MOUNT)

85 — 36″ x 36″ — W12-1 W12-1 — (R) & REPLACE

ONE WAY 54″ x 18″ — R6-1L BK. TO BK.

ONE WAY 54″ x 18″ — R6-1R

DO NOT ENTER 36″ x 36″ — R5-1

NOTE: GROUND-MOUNT WRONG WAY SIGNS INSTALLED FURTHER UP RAMP.

UIP (REPLACED ON JOB J6I3384)

SCALE 0 30 60 90

UTV CL LINK STORM SIGN MODOT UE ELEC SIGN

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STATE OF MISSOURI
JAMIE F. RANA
NUMBER PE-2005001034
PROFESSIONAL ENGINEER
Jamie F. Rana
01/29/2024 11:17:16 AM
JAMIE F. RANA - CIVIL
MO-PE-2005001034

DATE PREPARED 1/24/2024

ROUTE	STATE
N	MO
DISTRICT	SHEET NO.
SL	180

COUNTY ST. LOUIS

JOB NO. J6S3599

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

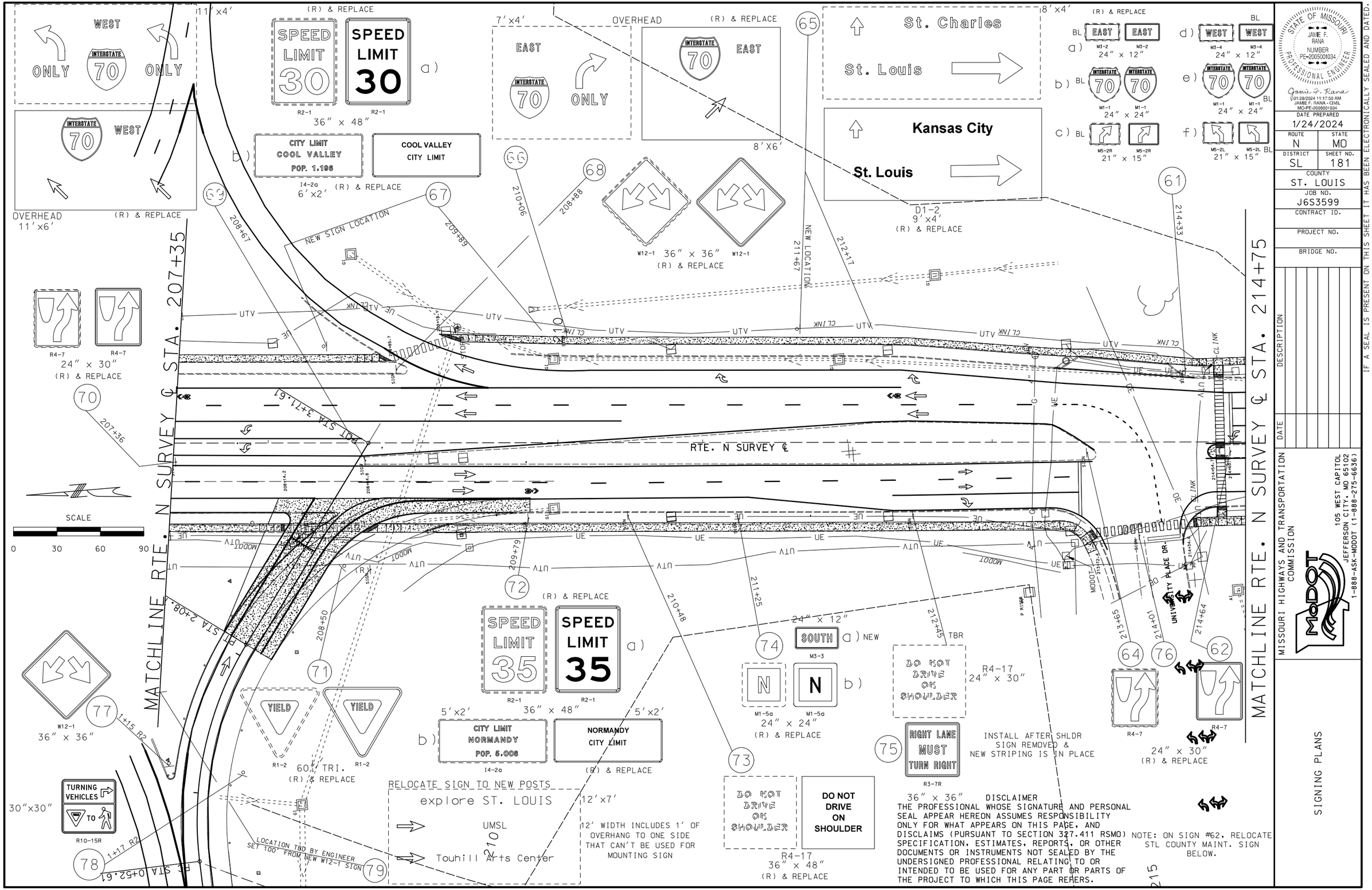
IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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

SIGNING PLANS



STATE OF MISSOURI
JAMIE F. RANA
NUMBER PE-2005001034
PROFESSIONAL ENGINEER
Jamie F. Rana
01/28/2024 11:17:50 AM
JAMIE F. RANA - CIVIL
MO-PE-2005001034

DATE PREPARED	
1/24/2024	
ROUTE	STATE
N	MO
DISTRICT	SHEET NO.
SL	181
COUNTY	
ST. LOUIS	
JOB NO.	
J6S3599	
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)

SIGNING PLANS

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(R) & REPLACE

60 JCT JCT a) BL
M2-1 M2-1
21" x 15"

INTERSTATE 70 INTERSTATE 70 b) BL
M1-1 M1-1
24" x 24"

(R) & REPLACE

36" x 36" STOP STOP
R1-1 R1-1

(R) & REPLACE

R4-7 R4-7
24" x 30"

MATCHLINE RTE. N SURVEY ℄ STA. 214+75

216+57

215

220

221+45

165

222+06

UIP
NORMANDY TRACE DR.

℄ NORMANDY TRACE DR.

RTE. N SURVEY ℄

UTV 100DOT

215+75

203

36" x 36"
W11-1
a)

SHARE THE ROAD
W16-1P
24" x 30"
b)

48" x 36"
MoDOT ADOPT-A-HIGHWAY
Litter Cleanup
CITIZENS FOR THE ADVANCEMENT OF NORMANDY (CAN)
I9-1a

UIP
219+09

220

N/F
THE CURATORS OF THE UNIVERSITY OF MISSOURI
17465/4743

℄ STA 219+95.48

EQUATION:
STA 219+95
STA 219+55

℄ STA 221+95.48

S 38° 49' 30" E

SAN

MATCHLINE RTE. N SURVEY ℄ STA. 222+20

SCALE
0 30 60 90

STATE OF MISSOURI
JAMIE F. RANA
NUMBER PE-2005001034
PROFESSIONAL ENGINEER
Jamie F. Rana
01/28/2024 11:18:15 AM
JAMIE F. RANA - CIVIL
MO-PE-2005001034

DATE PREPARED
1/24/2024

ROUTE	STATE
N	MO
DISTRICT	SHEET NO.
SL	182

COUNTY
ST. LOUIS

JOB NO.
J6S3599

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

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)

SIGNING PLANS

RELOCATE ABOVE NEW STOP SIGN
COOL VALLEY DR
FLORISSANT RD

(R) & REPLACE

STOP R1-1 STOP R1-1

164 36" x 36"

COOL VALLEY DR.

NORMANDY TRACE DR.

MATCHLINE RTE. N SURVEY ℄ STA. 222+20

224+72

224+32

RISER

SAN

STORM

8"

W

OE

T RISER

TMH

PP

231+28

PRIVATE SIGN (UIP)

230

RTE. N SURVEY ℄

56 R4-7 R4-7 24" x 30" (R) & REPLACE

54

MATCHLINE RTE. N CONST. ℄ STA. 232+10

223+01

227+87

58 59 R4-7 R4-7 24" x 30" (R) & REPLACE

36"x36" W11-2 AHEAD W16-9P 30"x18"

166 232+04

SCALE
0 30 60 90

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STATE OF MISSOURI
JAMIE F. RANA
NUMBER PE-2005001034
PROFESSIONAL ENGINEER
Jamie F. Rana
01:28:2024 11:18:34 AM
JAMIE F. RANA - CIVIL
MO-PE-2005001034

DATE PREPARED
1/24/2024

ROUTE	STATE
N	MO
DISTRICT	SHEET NO.
SL	183

COUNTY
ST. LOUIS

JOB NO.
J6S3599

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)

SIGNING PLANS

NOTE: SEE SIGNAL PLANS FOR RRFB DETAILS FOR MID-BLOCK CROSSING.

MATCHLINE RTE. N CONST. ℄ STA. 232+10

MATCHLINE RTE. N SURVEY ℄ STA. 239+50

RTE. N SURVEY ℄

53 — NO PARKING ANY TIME (R7-1D) NO PARKING ANY TIME (R7-1D) 18″ × 24″ (R) & REPLACE

52 — SPEED LIMIT 35 (R2-1) SPEED LIMIT 35 (R2-1) (R) & REPLACE 36″ × 48″

INSTALL NEW NEAR BRIDGE, 20′ FROM BRIDGE & 40′ FROM BRIDGE.
41, 42, 43 — OM3-L OM3-L 12″ × 36″ (R) & REPLACE

159 — 36″ × 36″ STOP (R1-1) STOP (R1-1) (R) & REPLACE

UIP
WALKER LA
FLORISSANT RD

204 — a) 36″ × 36″ W11-1

158 — 36″ × 36″ HERE TO (R1-5L)

SHARE THE ROAD (W16-1P) 24″ × 30″ b)

UIP
ARNOLD B GROBMAN DR
FLORISSANT RD

PRIVATE SIGN (DND)

PRIVATE SIGNS (DND)

OXEYE DR.

ARNOLD B. GROBMAN DR.

160 — 36″ × 36″ HERE TO (R1-5L)

161, 162 — R4-7 24″ × 30″

167 — RIGHT LANE MUST TURN RIGHT (R3-7R) 36″ × 36″

W11-2 36″ × 36″

W16-7P W16-7P 30″ × 18″

FOR RRFB @ MID-BLOCK CROSSING – SEE SIGNAL PLANS
SIGNS PAID FOR WITH RRFB – SEE JSPs FOR DETAILS.
2 – LT. & 2 – RT. SIGNS TO BE INSTALLED = 4 TOTAL.

55 — STOP (R1-1) STOP (R1-1) 36″ × 36″ (R) & REPLACE

UIP UTILITY SIGN

163 — a) W11-1 36″ × 36″

SHARE THE ROAD (W16-1P) 24″ × 30″ b)

SCALE
0 30 60 90

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STATE OF MISSOURI
JAMIE F. RANA
NUMBER PE-2005001034
PROFESSIONAL ENGINEER
Jamie F. Rana
01/28/2024 11:18:56 AM
JAMIE F. RANA - CIVIL
MO-PE-2005001034

DATE PREPARED 1/24/2024

ROUTE	STATE
N	MO
DISTRICT	SHEET NO.
SL	184

COUNTY ST. LOUIS
JOB NO. J6S3599
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)

SIGNING PLANS

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TO BE INSTALLED ON
ADVANCED WARNING FLASHER

W11-2
36" x 36"

INSTALL NEW NEAR BRIDGE,
20' FROM BRIDGE & 40' FROM BRIDGE.
(DISTANCES ARE APPROXIMATE)

OM3-R OM3-R
12" x 36"
(R) & REPLACE

38
39
40

℄ STA. 239+50

240
239+69
239+89
240+09

MATCHLINE RTE. N CONST. ℄

239+38, 239+58, 239+78

240+10
240+30
240+44

242+00

243+55

245+29

245

PRIVATE SIGN (DND)

ROSEDALE DR.

WACO DR.

244+64

244+95

245+42

RTE. N SURVEY ℄

MATCHLINE RTE. N SURVEY ℄ STA. 247+00

37
R7-1D NO PARKING ANY TIME
R7-1D NO PARKING ANY TIME
18" x 24"
(R) & REPLACE

156
(R) & REPLACE
R1-1 STOP
R1-1 STOP
36" x 36"

UIP
ROSEDALE
FLORISSANT RD

31
R7-1D NO PARKING ANY TIME
R7-1D NO PARKING ANY TIME
18" x 24"
(R) & REPLACE

UIP
WACO DR

157
(R) & REPLACE
R1-1 STOP
R1-1 STOP
36" x 36"

29
R3-9b CENTER LANE ONLY
36" x 48"

50
PRIVATE 'NO PARKING SIGN'
18" x 24"
(R) & RELOCATE

51
(R) & REPLACE
a)
R5-2 R5-2
24" x 24"
b)
NO TRUCKS NO TRUCKS
24" x 24"

44
45
46
(R) & REPLACE
OM3-R OM3-R
12" x 36"
INSTALL NEW NEAR BRIDGE,
20' FROM BRIDGE & 40' FROM BRIDGE.
(DISTANCES APPROXIMATE)

47 48 49
OM3-L OM3-R
12" x 36"
(R) & REPLACE
INSTALL NEW NEAR BRIDGE,
20' FROM BRIDGE & 40' FROM BRIDGE.
(DISTANCES ARE APPROXIMATE)

SCALE
0 30 60 90

STATE OF MISSOURI
JAMIE F. RANA
NUMBER PE-2005001034
PROFESSIONAL ENGINEER
Jamie F. Rana
01/28/2024 11:19:16 AM
JAMIE F. RANA - CIVIL
MO-PE-2005001034

DATE PREPARED
1/24/2024

ROUTE	STATE
N	MO
DISTRICT	SHEET NO.
SL	185

COUNTY
ST. LOUIS

JOB NO.
J6S3599

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)

SIGNING PLANS

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DISCLAIMER

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MATCHLINE RTE. N SURVEY ℄ STA. 247+00

MATCHLINE RTE. N SURVEY ℄ STA. 254+35

RTE. N SURVEY ℄

CIRCLE DR.

MARIETTA DR.

247+58

247+98

248+54

249+64

251+51

252+91

252+76

30 (R) & REPLACE

STOP STOP

R1-1 R1-1

36" X 36"

48" X 36"

MoDOT ADOPT-A-HIGHWAY Litter Cleanup

CITIZENS FOR THE ADVANCEMENT OF NORMANDY (CAN)

19-1a

UIP

UIP

CIRCLE DR

FLORISSANT RD

32 (R) & REPLACE

a)

R5-2 R5-2

24" x 24"

b)

NO TRUCKS NO TRUCKS

24" x 24"

33

NO PARKING ANY TIME NO PARKING ANY TIME

R7-1D R7-1D

18" x 24"

(R) & REPLACE

34

SPEED LIMIT 35 SPEED LIMIT 35

R2-1 R2-1

36" x 48"

(R) & REPLACE

35 36

NO PARKING ANY TIME NO PARKING ANY TIME

R7-1D R7-1D

18" x 24"

(R) & REPLACE

MARIETTA DR

FLORISSANT RD

(R) & RELOCATE

REUSE SIGNS & EXIST. POST

155 (R) & REPLACE

STOP STOP

R1-1 R1-1

36" x 36"

SCALE

0 30 60 90

STATE OF MISSOURI
JAMIE F. RANA
NUMBER PE-2005001034
PROFESSIONAL ENGINEER

Jami F. Rana
(01/28/2024 11:19:37 AM)
JAMIE F. RANA - CIVIL
MO-PE-2005001034

DATE PREPARED
1/24/2024

ROUTE	STATE
N	MO
DISTRICT	SHEET NO.
SL	186

COUNTY
ST. LOUIS

JOB NO.
J6S3599

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)

SIGNING PLANS

a)
W11-1
36" x 36"

SHARE THE ROAD
b)
W16-1P
24" x 30"

NO PARKING ANY TIME
NO PARKING ANY TIME
R7-1D R7-1D
18" x 24"
(R) & REPLACE

SPEED LIMIT 35
SPEED LIMIT 35
R2-1 R2-1
36" x 48"
(R) & REPLACE

a) NORTH
M3-1
24" x 12"
NEW

N N
b)
M1-5a M1-5a
24" x 24"
(R) & REPLACE

DO NOT ENTER
DO NOT ENTER
R5-1 R5-1
36" x 36"
(R) & REPLACE

NO PARKING ANY TIME
NO PARKING ANY TIME
R7-1D R7-1D
18" x 24"
(R) & REPLACE

NO PARKING ANY TIME
NO PARKING ANY TIME
R7-1D R7-1D
18" x 24"
(R) & REPLACE

(R)
18" x 18"
OM1-3

W12-1 W12-1
(R) & REPLACE
36" x 36"

WRONG WAY
WRONG WAY
R5-1a R5-1a
36" x 24"
(R) & REPLACE

ONE WAY
DO NOT ENTER
(R)

NOTE: (R) & REINSTALL 2 SIGNS
'BEGIN' & 'END ST LOUIS
COUNTY MAINTENANCE'
SIGN BELOW W12-1 SIGN.

SCALE
0 30 60 90

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MATCHLINE RTE. N SURVEY ℄ STA. 254+35

MATCHLINE RTE. N SURVEY ℄ STA. 261+80

RTE. N SURVEY ℄

BERMUDA DRIVE

N HILLS DRIVE

ST. ANNS LANE

STATE OF MISSOURI
JAMIE F. RANA
NUMBER PE-2005001034
PROFESSIONAL ENGINEER
Jamie F. Rana
01/28/2024 11:20:00 AM
JAMIE F. RANA - CIVIL
MO-PE-2005001034

DATE PREPARED
1/24/2024

ROUTE	STATE
N	MO
DISTRICT	SHEET NO.
SL	187

COUNTY
ST. LOUIS

JOB NO.
J6S3599

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)

SIGNING PLANS

(R) & RELOCATE
NORTH HILLS DR a)

DO NOT ENTER R5-1 DO NOT ENTER R5-1 b)

18
36" x 36"
(R) & REPLACE

TOWER GROVE DR
FLORISSANT RD
(R) & RELOCATE
REUSE SIGNS & POST

TOWER GROVE DR.

OAKMOUNT AVE
FLORISSANT RD
(R) & RELOCATE
REUSE SIGNS & POST

(R) & REPLACE
20
WRONG WAY R5-1a WRONG WAY R5-1a
36" x 24" OE

17
ONE WAY R6-1R ONE WAY R6-1R
36" x 12"
(R) & REPLACE

19
ONE WAY R6-1R ONE WAY R6-1R a)
36" x 12"
(R) & REPLACE

b) R5-2 R5-2
(R) & REPLACE
24"x24"

c) WARNING NEIGHBORHOOD WATCH PROGRAM IN FORCE
12"x18"
TR42-6
(R) & REPLACE

16
NO PARKING ANY TIME R7-1D NO PARKING ANY TIME R7-1D
18" x 24"
(R) & REPLACE

262+02
262+30
262+35
262+64
263+28
264+32
264+81
264+96
265+40
266+09
266+58
268+34

265

MATCHLINE RTE. N SURVEY ℄ STA. 261+80

MATCHLINE RTE. N SURVEY ℄ STA. 269+20

RTE. N SURVEY ℄

OAKMOUNT AVE.

(R)
NO PARKING
7 AM TO 9 AM
4 PM TO 6 PM
R7-5
18" x 24"
(7:00AM to 9:00AM
4:00PM to 6:00PM)
18" x 24"
No Parking 9:00 PM to 4:00 PM
R7-5
18" x 24"

(R)
NO PARKING ANY TIME
R7-1L
18" x 24"

a)
W11-1
36" x 36"

SHARE THE ROAD b)
W16-1P
24" x 30"

21

22
(R) & REPLACE
STOP R1-1 STOP R1-1
36" x 36"

23
(R)
NO PARKING ANY TIME
R7-1L
18" x 24"

SPEED LIMIT 35 R2-1 SPEED LIMIT 35 R2-1
36" x 48"
(R) & REPLACE

(R)
NO PARKING
7 AM TO 9 AM
4 PM TO 6 PM
R7-5
18" x 24"
(7:00AM to 9:00AM
4:00PM to 6:00PM)
18" x 24"
No Parking 9:00 PM to 4:00 PM
R7-5
18" x 24"

(R)
NO PARKING
7 AM TO 9 AM
4 PM TO 6 PM
R7-5
18" x 24"
(7:00AM to 9:00AM
4:00PM to 6:00PM)
18" x 24"
No Parking 9:00 AM to 4:00 PM
R7-5
18" x 24"

SCALE
0 30 60 90

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.

STATE OF MISSOURI
JAMIE F. RANA
NUMBER PE-2005001034
PROFESSIONAL ENGINEER
Jamie F. Rana
01/28/2024 11:20:21 AM
JAMIE F. RANA - CIVIL
MO-PE-2005001034

DATE PREPARED
1/24/2024

ROUTE	STATE
N	MO
DISTRICT	SHEET NO.
SL	188

COUNTY
ST. LOUIS

JOB NO.
J6S3599

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)

SIGNING PLANS

DISCLAIMER

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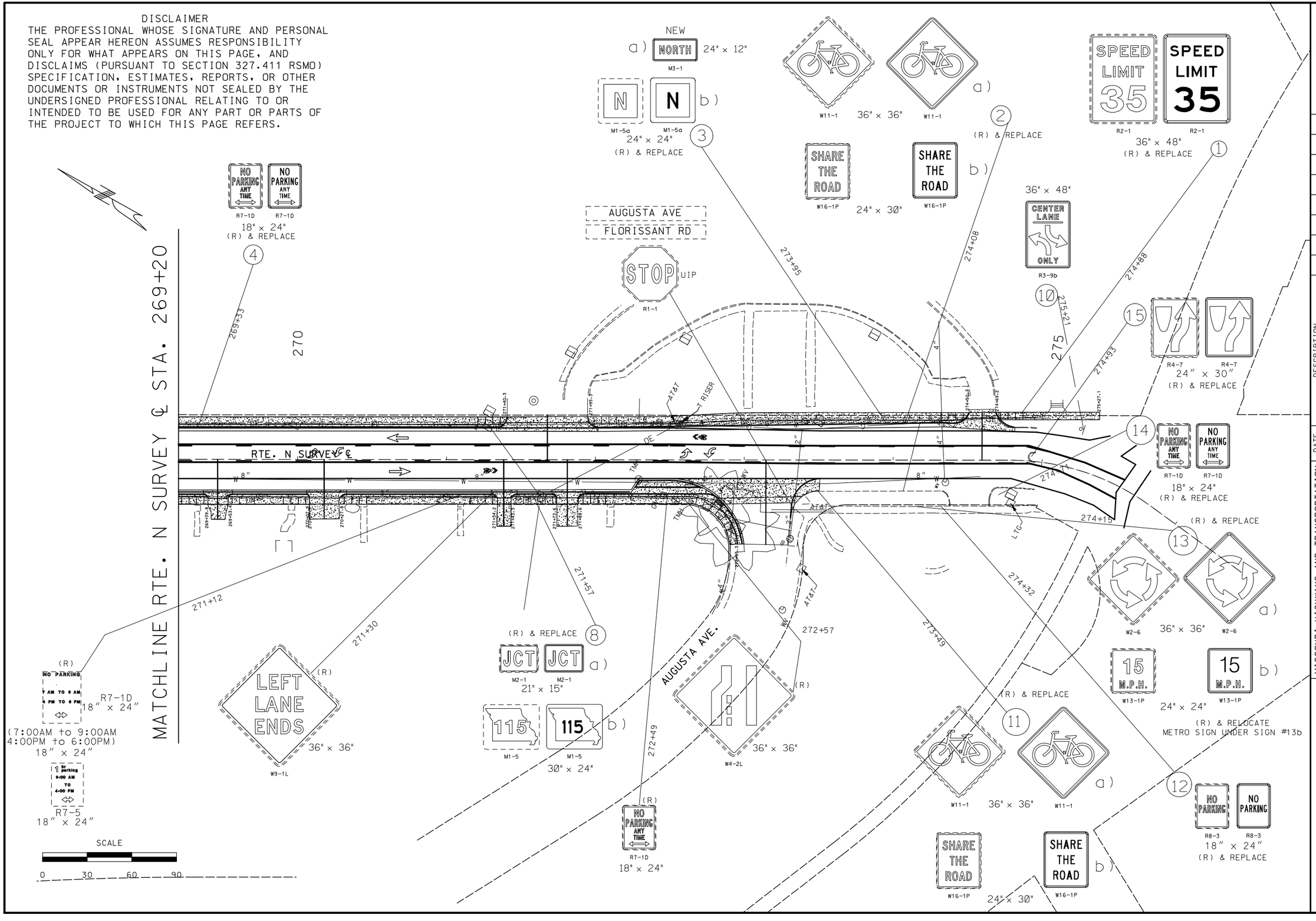

STATE OF MISSOURI
JAMIE F. RANA
NUMBER PE-2005001034
PROFESSIONAL ENGINEER
Jamie F. Rana
01/28/2024 11:20:38 AM
JAMIE F. RANA - CIVIL
MO-PE-2005001034

DATE PREPARED
1/24/2024

ROUTE	STATE
N	MO
DISTRICT	SHEET NO.
SL	189

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

NO.	DESCRIPTION	DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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

SIGNING PLANS

SIGNS							STRUCTURAL STEEL POSTS✳						PIPE POST ✳					BACKING BARS ✳✳				CONCRETE			PERFORATED SQUARE STEEL TUBE POST											
902 SIGNAL SIGNS TABULATED ON D-37A SHEET							POST DES NO.	POST NO. 1	POST NO. 2	POST NO. 3	LBS PER FT	TOTAL	PIPE SIZE	POST NO. 1	POST NO. 2	LBS PER FT	TOTAL	2" X 3/8" BARS @ 2.55 LBS PER LIN FT				FOOTINGS EMBEDDED	BREAK-AWAY ASSEMBLY	U CHANNEL POST	2 IN. POST						2.5 IN. POST						SIGN NO.
																											ANCHORS					ANCHORS		
SIGN NO.	SIGN SIZE	PLAN SHEET	STATION	HORZ CLEAR IF NOT STD.	LOCATION	TOTAL SIGN HT. FOR POST CALC.	SIGN DTL. SHT. NO.					ITEM NO. 9031210					ITEM NO. 9031220	NO. EACH	LGTH IN.	TOTAL LF	TOTAL LBS	ITEM NO. 9031010	ITEM NO. 9031241	ITEM NO. 9031250A	POST NO. 1	POST NO. 2	TOTAL ITEM NO. 9031270A	DRIVEN 12 GA. ITEM NO. 9031271A	DRIVEN 7 GA. ITEM NO. 9031273A	CONCRETE 7 GA. ITEM NO. 9E+06	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	
	IN.					IN.		LF	LF	LF		LBS	IN.	LF	LF		LBS	EACH	IN.	LF	LBS	CY YDS	EACH	LF	LF	LF	LF	EACH	EACH	EACH	LF	LF	LF	LF	EACH	EACH	
127	NOT INCLUDED IN PLANS																																		127
126	36x48 54x24	175	169+08		LT.	73	STD. 197																								9.5	13.5	23		2		126
123	18x24	175	167+94		LT.	24	STD.																								9.5		9.5		1		123
129	36x48 72x24	175	168+60		RT.	73	STD. 197																								9.5	13.5	23		2		129
122	36x36 30x18	176	171+04		LT.	55	STD.																								12.25		12.25		1		122
116	36	176	173+94		LT.	36	STD.																								10.5		10.5		1		116
115	18x24	176	173+01		LT.	24	STD.																								9.5		9.5		1		115
114	18x24	176	175+21		LT.	24	STD.																								9.5		9.5		1		114
124	36	176	171+01		RT.	36	STD.																								10.5		10.5		1		124
125	36x36 30x18	176 ✳	175+32		RT.	55	STD.																								12.25		12.25		1		125
117	18x24	176	177+20		RT.	24	STD.																								9.5		9.5		1		117
108	36x36 30x18	177 ✳	179+23		LT.	55	STD.																								12.25		12.25		1		108
107	24x36	177	181+40		LT.	36	STD.																								10.5		10.5		1		107
106	36x36 30x18	177 ✳	182+78		LT.	55	STD.																								12.25		12.25		1		106
112	36x36 30x18	177 ✳	179+22		RT.	55	STD.																								12.25		12.25		1		112
113	24x36	177	182+75		RT.	36	STD.																								10.5		10.5		1		113
109	36x48	177	185+07		RT.	48	STD.																								11.5		11.5		1		109
100	36x36	177	185+15		RT.	36	STD.																								10.5		10.5		1		100
101	36	178	185+38		LT.	36	STD.																								10.5		10.5		1		101
94	48x36	178	192+43		LT.	36	STD.																								10.5		10.5		1		94
102	48" TRI.	178	188+22		RT.	41.57	STD.																								11.00		11		1		102
103	36x36	178	188+69		RT.	50.91	STD.																								11.75		11.75		1		103
105	18x24	178	191+30		RT.	24	STD.																								9.5		9.5		1		105
104	36x48	178	192+40		RT.	48	STD.																								11.5		11.5		1		104
93	36x48	179	196+78		LT.	69	STD.																								13.25		13.25		1		93
92	48" TRI.	179	197+71		LT.	41.57	STD.																								11		11		1		92
91	ASSEMBLY	179	197+94		LT.	62	STD.						2.5	17.25		5.79	100					0.13	1														91
90	24x30	179	198+39		LT.	30	STD.						2.5	14		5.79	81					0.13	1														90
95	36x36	179	198+96		LT.	50.91	STD.						2.5	16.25		5.79	94					0.13	1														95
96	36	179	194+64		RT.	36	STD.																								10.5		10.5		1		96
97	ASSEMBLY	179	195+48		RT.	40	STD.						2.5	15.5		5.79	90					0.13	1														97
98	108x48	179	195+91		RT.	48	198						2.5	16	16	5.79	185					0.26	2														98
99	ASSEMBLY	179	197+71		RT.	53	STD.						4	17.5		10.79	189	6	50	25	64	0.36	1														99
63	24x12 24x24	179	199+50		LT.	37	STD.						2.5	14.75		5.79	85					0.13	1														63
82	60" TRI.	180	202+05		LT.	51.96	STD.						4	16.5		10.79	178					0.36	1														82
81	24x30	180	203+38		MEDIAN	30	STD.						2.5	14.5		5.79	84					0.13	1														81
85	36x36	180	201+83		RT.	50.91	STD.						2.5	16.25		5.79	94					0.13	1														85
86	12x7	180	1+81 R3		LT.	84	RELOCATE	18	18		9	324										0.28	2														86
87	30x30	180	1+01 R3		RT.	30	STD.						2.5	14.5		5.79	84					0.13	1														87
88	36x36	180	1+02 R3		LT.	50.91	STD.						2.5	16.25		5.79	94					0.13	1														88
NOTE: ✳ INDICATES SEE LINE ABOVE FOR LOCATION AS PART OF ASSEMBLY.											SUBTOTALS	324				1358				64	2.43	15	0			0	0	0	0		308.75	0	28	0	

✳ BREAKAWAY ASSEMBLY IS INCIDENTAL FOR STRUCTURAL STEEL & PIPE POSTS

✳✳ BACKING BARS ARE TOTALED WITH STRUCTURAL STEEL QTY. IF YOU DO NOT HAVE STRUCTURAL STEEL POSTS, THEN TOTAL IS INCLUDED WITH PIPE POST QTY.

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ROUND PIPE POST AND FOOTING DATA TABLE

NOM. SIZE (IN.)	WEIGHT LBS/FT	WEIGHT LBS/IN	STUB LENGTH	FOOTING DIA.	DEPTH	CONCRETE C.Y.
2.5	5.79	0.48	4'-3.5"	12"	4'-6"	0.13
4	10.79	0.9	5'-3.5"	18"	5'-6"	0.36

STRUCTURAL STEEL POST AND FOOTING DATA TABLE

POST DES. NO.	POST 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	0.75	3'-0"	15"	3'-0"	0.14	3'-2"	0.15	3'-3"	0.16	3'-6"	0.16
2	W6	15	1.25	4'-0"	24"	4'-0"	0.47	4'-2"	0.5	4'-3"	0.51	4'-6"	0.51
3	W8	18	1.5	4'-6"	28"	4'-6"	0.71	4'-8"	0.73	4'-9"	0.74	5'-0"	0.74
4	W10	22	1.83	5'-0"	36"	5'-0"	1.31	5'-2"	1.36	5'-3"	1.39	5'-6"	1.39
5	W10	26	2.17	5'-0"	36"	5'-0"	1.31	5'-3"	1.37	5'-5"	1.43	5'-9"	1.43
6	W12	35	2.92	5'-6"	36"	5'-6"	1.44	5'-9"	1.52	5'-11"	1.56	6'-3"	1.56

STATE OF MISSOURI
JAMIE F. RANA
NUMBER PE-2005001034
PROFESSIONAL ENGINEER
Jamie F. Rana
(01/26/2024 11:20:59 AM
JAMIE F. RANA - CIVIL
MO-PE-2005001034

DATE PREPARED
1/24/2024

ROUTE	STATE
N	MO
DISTRICT	SHEET NO.
SL	190

COUNTY
ST. LOUIS

JOB NO.
J6S3599

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)

SIGNING SHEET
POST QUANTITIES

SIGNS								STRUCTURAL STEEL POSTS*						PIPE POST *					BACKING BARS **				CONCRETE		U		PERFORATED SQUARE STEEL TUBE POST											
																											2 IN. POST						2.5 IN. POST						
	902 SIGNAL SIGNS TABULATED ON D-37A SHEET							POST DES NO.	POST NO. 1	POST NO. 2	POST NO. 3	LBS PER FT	TOTAL	PIPE SIZE	POST NO. 1	POST NO. 2	LBS PER FT	TOTAL	2" X 3/8" BARS @ 2.55 LBS PER LIN FT				FOOTINGS EMBEDDED	BREAK-AWAY ASSEMBLY	CHANNEL POST		POST NO. 1	POST NO. 2	TOTAL	ANCHORS			POST NO. 1	POST NO. 2	TOTAL	2.25" INSERT (6 FT.)	ANCHORS		SIGN NO.
SIGN NO.	SIGN SIZE	PLAN SHEET	STATION	HORZ CLEAR IF NOT STD.	LOCATION	TOTAL SIGN HT. FOR POST CALC.	SIGN DTL. SHT. NO.						ITEM NO. 9031210					ITEM NO. 9031220	NO.	LGTH	TOTAL	TOTAL	ITEM NO. 9031010	ITEM NO. 9031241	ITEM NO. 9031250A				ITEM NO. 9031270A	DRIVEN 12 GA. ITEM NO. 9031271A	DRIVEN 7 GA. ITEM NO. 9031273A	CONCRETE 7 GA. ITEM NO. 9E+06			ITEM NO. 9031280	ITEM NO. 9031272A	DRIVEN 7 GA. ITEM NO. 9031281A	CONCRETE 7 GA. ITEM NO. 9031285	
	IN.								LF	LF	LF		LBS	IN.	LF	LF		LBS	EACH	IN.	LF	LBS	CY YDS	EACH			LF	LF	LF				LF	LF	LF				
67	36x48 72x24	181	209+89		LT.	73	197							2.5 2.5	14	18	5.79 5.79	81 104					0.13 0.13	2														67
68	36x36	181	208+88		LT.	50.91	STD.							2.5	16.25		5.79	94					0.13	1														68
65	108x48	181	211+67		LT.	48	197							2.5	16	14.25	5.79	175					0.26	2														
61	ASSEMBLY	181	214+33		LT.	53	STD.							4	17.5		0.79	189					0.36	1														61
70	24x30	181	207+36		RT.	30	STD.							2.5	14.5		5.79	84					0.12	1														70
71	60" TRI.	181	208+50		RT.	51.96	STD.							4	17.5		0.79	189					0.36	1														71
72	36x48 60x24	181	209+79		RT.	73	197							2.5 2.5	14	18	5.79 5.79	81 104					0.13 0.13	1 1														72
73	36x48	181	210+48		RT.	48	STD.							2.5	16		5.79	93					0.13	1														73
74	24x12 24x24	181	211+25		RT.	37	STD.							2.5	15.25		5.79	88					0.13	1														74
75	36x36	181	212+45		RT.	36	STD.							2.5	15		5.79	87					0.13	1														75
64	24x30	181	213+65		RT.	30	STD.							2.5	14.5		5.79	84					0.13	1														64
76	24x30	181	214+01		RT.	30	STD.							2.5	14.5		5.79	84					0.13	1														76
62	24x30	181	214+64		RT.	30	STD.							2.5	14.5		5.79	84					0.13	1														62
77	36x36	181	1+15 R2		LT.	50.91	STD.							2.5	16.25		5.79	94					0.13	1														77
78	30x30	181	1+17 R2		RT.	30	STD.							2.5	14.5		5.79	84					0.13	1														78
79	12x7	181	TBD R2		LT.	84	RELOCATE1		18	18		9	324										0.28	2														79
60	ASSEMBLY	182	216+57		LT.	40	STD.							2.5	15.5		5.79	90					0.13	1														60
57	24x30	182	221+45		LT.	30	STD.																									10		10		1		57
165	36	182	222+06		LT.	36	STD.																									10.5		10.5		1		165
164	ASSEMBLY	183	224+72		LT.	62	STD.																									12.75		12.75		1		164
166	36x36 30x18	183	232+04		RT.	70	STD.																									13.5		13.5		1		166
58	24x30	183	223+01		MEDIAN	30	STD.																									10		10		1		58
56	24x30	183	224+32		MEDIAN	30	STD.																									10		10		1		56
59	24x30	183	227+87		MEDIAN	30	STD.																									10		10		1		59
54	24x30	183	231+28		MEDIAN	30	STD.																									10		10		1		54
53	18x24	184	232+39		LT.	24	STD.																									9.5		9.5		1		53
159	36	184	233+11		LT.	36	STD.																									10.5		10.5		1		159
158	36x36	184	234+97		LT.	36	STD.																									10.5		10.5		1		158
52	36x48	184	235+84		LT.	48	STD.																									11.5		11.5		1		52
41	12x36	184	238+98		LT.	36	STD.																									10.5		10.5		1		41
42	12x36	184	239+18		LT.	36	STD.																									10.5		10.5		1		42
43	12x36	184	239+38		LT.	36	STD.																									10.5		10.5		1		43
160	36x36	184	234+44		RT.	36	STD.																									10.5		10.5		1		160
161	24x30	184	234+48		MEDIAN	30	STD.																									10		10		1		161
162	24x30	184	235+00		MEDIAN	30	STD.																									10		10		1		162
167	36x36	184	235+00		RT.	36	STD.																									10.5		10.5		1		167
55	36	184	238+41		RT.	36	STD.																									10.5		10.5		1		55
163	36x36 24x30	184 *	238+96		RT.	81.91	STD.																									14.5		14.5		1		163
NOTE: * INDICATES SEE LINE ABOVE FOR LOCATION AS PART OF ASSEMBLY.								SUBTOTALS	324				1889						0	3.2	21	0					0	0	0	0			226.25	0	21	0		

* BREAKAWAY ASSEMBLY IS INCIDENTAL FOR STRUCTURAL STEEL & PIPE POSTS

** BACKING BARS ARE TOTALED WITH STRUCTURAL STEEL QTY. IF YOU DO NOT HAVE STRUCTURAL STEEL POSTS, THEN TOTAL IS INCLUDED WITH PIPE POST QTY.

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ROUND PIPE POST AND FOOTING DATA TABLE

NOM. SIZE	WEIGHT		STUB	FOOTING		CONCRETE
(IN.)	LBS/FT	LBS/IN	LENGTH	DIA.	DEPTH	C.Y.
2.5	5.79	0.48	4'-3.5"	12"	4'-6"	0.13
4	10.79	0.9	5'-3.5"	18"	5'-6"	0.36

STRUCTURAL STEEL POST AND FOOTING DATA TABLE

POST					FOOTING								
POST DES. NO.	NOM. SIZE	WEIGHT LBS/FT	WEIGHT LBS/IN	STUB LENGTH	DIA.	LEVEL GROUND DEPTH	LEVEL GROUND C.Y.	6:1 GRADE DEPTH	6:1 GRADE C.Y.	4:1 GRADE DEPTH	4:1 GRADE C.Y.	3:1 OR 2:1 GRADE DEPTH	3:1 OR 2:1 GRADE C.Y.
1	W6	9	0.75	3'-0"	15"	3'-0"	0.14	3'-2"	0.15	3'-3"	0.16	3'-6"	0.16
2	W6	15	1.25	4'-0"	24"	4'-0"	0.47	4'-2"	0.5	4'-3"	0.51	4'-6"	0.51
3	W8	18	1.5	4'-6"	28"	4'-6"	0.71	4'-8"	0.73	4'-9"	0.74	5'-0"	0.74
4	W10	22	1.83	5'-0"	36"	5'-0"	1.31	5'-2"	1.36	5'-3"	1.39	5'-6"	1.39
5	W10	26	2.17	5'-0"	36"	5'-0"	1.31	5'-3"	1.37	5'-5"	1.43	5'-9"	1.43
6	W12	35	2.92	5'-6"	36"	5'-6"	1.44	5'-9"	1.52	5'-11"	1.56	6'-3"	1.56

STATE OF MISSOURI
JAMIE F. RANA
NUMBER PE-2005001034
PROFESSIONAL ENGINEER
Jamie F. Rana
(01/28/2024 11:21:24 AM
JAMIE F. RANA - CIVIL
MO-PE-2005001034

DATE PREPARED
1/24/2024

ROUTE	STATE
N	MO
DISTRICT	SHEET NO.
SL	191

COUNTY
ST. LOUIS

JOB NO.
J6S3599

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)

SIGNING SHEET
POST QUANTITIES

SIGNS								STRUCTURAL STEEL POSTS ✳					PIPE POST ✳					BACKING BARS ✳✳				CONCRETE		U		PERFORATED SQUARE STEEL TUBE POST										
902 SIGNAL SIGNS TABULATED ON D-37A SHEET								POST DES NO.	POST NO. 1	POST NO. 2	POST NO. 3	LBS PER FT	TOTAL ITEM NO. ###	PIPE SIZE	POST NO. 1	POST NO. 2	LBS PER FT	TOTAL ITEM NO. 9031220	2" X 3/8" BARS BARS @ 2.55 LBS PER LIN FT				FOOTINGS EMBEDDED	BREAK-AWAY ASSEMBLY	CHANNEL POST		2 IN. POST					2.5 IN. POST					SIGN NO.
																												ANCHORS					ANCHORS		
SIGN NO.	SIGN SIZE IN.	PLAN SHEET	STATION	HORZ CLEAR IF NOT STD.	LOCATION	TOTAL SIGN HT. FOR POST CALC. IN.	SIGN DTL. SHT. NO.												NO. EACH	LGTH IN.	TOTAL LF	TOTAL LBS	ITEM NO. 9031010 CY YDS	ITEM NO. 9031241 EACH	ITEM NO. 9031250A LF		POST NO. 1 LF	POST NO. 2 LF	TOTAL ITEM NO. 9031270A LF	DRIVEN 12 GA. ITEM NO. 9031271A LF	DRIVEN 7 GA. ITEM NO. 9031273A EACH	CONCRETE 7 GA. ITEM NO. 9E+06 EACH	POST NO. 1 LF	POST NO. 2 LF	TOTAL ITEM NO. 9031280 LF	2.25" INSERT (6 FT.) ITEM NO. 9031272A LF	DRIVEN 7 GA. ITEM NO. 9031281A EACH	CONCRETE 7 GA. ITEM NO. 9031285 EACH	
38	12x36	185	239+69		LT.	36	STD.																							10.5		10.5		1		38
39	12x36	185	239+89		LT.	36	STD.																							10.5		10.5		1		39
40	12x36	185	240+09		LT.	36	STD.																							10.5		10.5		1		40
37	18x24	185	243+55		LT.	24	STD.																							9.5		9.5		1		37
156	36	185	245+29		LT.	36	STD.																							10.5		10.5		1		156
44	12x36	185	239+38		RT.	36	STD.																							10.5		10.5		1		44
45	12x36	185	239+58		RT.	36	STD.																							10.5		10.5		1		45
46	12x36	185	239+78		RT.	36	STD.																							10.5		10.5		1		46
47	12x36	185	240+10		RT.	36	STD.																							10.5		10.5		1		47
48	12x36	185	240+30		RT.	36	STD.																							10.5		10.5		1		48
49	12x36	185	240+44		RT.	36	STD.																							10.5		10.5		1		49
50	18x24	185	243+49		RT.	24	STD.																							9.5		9.5		1		50
51	24x24 24x24	185 ✳	244+64		RT.	49	STD.																							11.75		11.75		1		51
157	36	185	244+95		RT.	36	STD.																							10.5		10.5		1		157
31	18x24	185	245+42		RT.	24	STD.																							9.5		9.5		1		31
29	36x48	185	242+00		RT.	48	STD.																							11.5		11.5		1		29
29	NOT INCLUDED IN PLANS																																			
30	36	186	247+98		RT.	36	STD.																							10.5		10.5		1		30
32	24x24 24x24	186 ✳	247+58		RT.	49	STD.																							11.75		11.75		1		32
33	18x24	186	248+54		RT.	24	STD.																							9.5		9.5		1		33
34	36x48	186	249+64		RT.	48	STD.																							11.5		11.5		1		34
35	18x24	186	251+51		RT.	24	STD.																							9.5		9.5		1		35
36	18x24	186	252+91		RT.	24	STD.																							9.5		9.5		1		36
155	36	186	252+76		RT.	36	STD.																							10.5		10.5		1		155
24	18x24	187	261+54		LT.	24	STD.																							9.5		9.5		1		24
25	36x36	187	257+75		LT.	36	STD.																							10.5		10.5		1		25
150	36x36	187	260+74		LT.	36	STD.																							10.5		10.5		1		150
153	18x24	187	260+92		LT.	24	STD.																							9.5		9.5		1		153
26	24x12 24x24	187	257+22		LT.	37	STD.																							10.75		10.75		1		26
27	36x48	187	256+62		LT.	48	STD.																							11.5		11.5		1		27
28	18x24	187	256+31		LT.	24	STD.																							9.5		9.5		1		28
151	36x36 24x30	187	255+54		LT.	81.91	STD.																							14.5		14.5		1		151
152	36x36	187	257+80		LT.	50.91	STD.																							11.75		11.75		1		152
154	36x24	187	261+21		LT.	24	STD.																							9.5		9.5		1		154
16	18x24	188	266+58		LT.	24	STD.																							9.5		9.5		1		16
17	36x12	188	264+96		LT.	12	STD.																							8.5		8.5		1		17
18	36x36 VAR. x 12	188	262+02		LT.	49	STD.																							11.75		11.75		1		18
19	36x12 24x24 12x18	188	265+40		LT.	56	STD.																							12.25		12.25		1		19
20	36x24	188	262+30		LT.	24	STD.																							9.5		9.5		1		20
21	36x36 24x30	188	262+64		RT.	81.91	STD.																							14.5		14.5		1		21
22	36	188	264+32		RT.	36	STD.																							10.5		10.5		1		22
23	36x48	188	264+81		RT.	48	STD.																							11.5		11.5		1		23
SUBTOTALS								0					0					0			0	0	0	0			0	0	0	0			435.5	0	41	0	

NOTE: ✳ INDICATES SEE LINE ABOVE FOR LOCATION AS PART OF ASSEMBLY.

✳ BREAKAWAY ASSEMBLY IS INCIDENTAL FOR STRUCTURAL STEEL & PIPE POSTS

✳✳ BACKING BARS ARE TOTALED WITH STRUCTURAL STEEL QTY. IF YOU DO NOT HAVE STRUCTURAL STEEL POSTS, THEN TOTAL IS INCLUDED WITH PIPE POST QTY.

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.

ROUND PIPE POST AND FOOTING DATA TABLE

NOM. SIZE	WEIGHT		STUB	FOOTING	DEPTH	CONCRETE
(IN.)	LBS/FT	LBS/IN	LENGTH	DIA.		C.Y.
2.5	5.79	0.48	4'-3.5"	12"	4'-6"	0.13
4	10.79	0.9	5'-3.5"	18"	5'-6"	0.36

STRUCTURAL STEEL POST AND FOOTING DATA TABLE

POST	NOM. SIZE	WEIGHT		STUB	DIA.	FOOTING: LEVEL GROUND		6:1 GRADE		4:1 GRADE		3:1 OR 2:1 GRADE	
DES. NO.		LBS/FT	LBS/IN	LENGTH		DEPTH	C.Y.	DEPTH	C.Y.	DEPTH	C.Y.	DEPTH	C.Y.
1	W6	9	0.75	3'-0"	15"	3'-0"	0.14	3'-2"	0.15	3'-3"	0.16	3'-6"	0.16
2	W6	15	1.25	4'-0"	24"	4'-0"	0.47	4'-2"	0.5	4'-3"	0.51	4'-6"	0.51
3	W8	18	1.5	4'-6"	28"	4'-6"	0.71	4'-8"	0.73	4'-9"	0.74	5'-0"	0.74
4	W10	22	1.83	5'-0"	36"	5'-0"	1.31	5'-2"	1.36	5'-3"	1.39	5'-6"	1.39
5	W10	26	2.17	5'-0"	36"	5'-0"	1.31	5'-3"	1.37	5'-5"	1.43	5'-9"	1.43
6	W12	35	2.92	5'-6"	36"	5'-6"	1.44	5'-9"	1.52	5'-11"	1.56	6'-3"	1.56

STATE OF MISSOURI
JAMIE F. RANA
NUMBER PE-2005001034
PROFESSIONAL ENGINEER
Jamie F. Rana
01/28/2024 11:21:50 AM
JAMIE F. RANA - CIVIL
MO-PE-2005001034

DATE PREPARED 1/24/2024

ROUTE	STATE
N	MO
DISTRICT	SHEET NO.
SL	192

COUNTY ST. LOUIS

JOB NO. J6S3599

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)

SIGNING SHEET
POST QUANTITIES

SIGNS								STRUCTURAL STEEL POSTS✳						PIPE POST ✳					BACKING BARS ✳✳				CONCRETE			PERFORATED SQUARE STEEL TUBE POST												
902 SIGNAL SIGNS TABULATED ON D-37A SHEET								POST DES NO.	POST NO. 1	POST NO. 2	POST NO. 3	LBS PER FT	TOTAL	PIPE SIZE	POST NO. 1	POST NO. 2	LBS PER FT	TOTAL	2" X 3/8" BARS BARS @ 2.55 LBS PER LIN FT				FOOTINGS EMBEDDED	BREAK-AWAY ASSEMBLY	U CHANNEL POST	2 IN. POST						2.5 IN. POST						SIGN NO.
																												ANCHORS					ANCHORS		
SIGN NO.	SIGN SIZE	PLAN SHEET	STATION	HORZ CLEAR IF NOT STD.	LOCATION	TOTAL SIGN HT. FOR POST CALC.	SIGN DTL. SHT. NO.						ITEM NO. 9031210					ITEM NO. 9031220					ITEM NO. 9031010	ITEM NO. 9031241	ITEM NO. 9031250A	POST NO. 1	POST NO. 2	TOTAL	DRIVEN 12 GA.	DRIVEN 7 GA.	CONCRETE 7 GA.	POST NO. 1	POST NO. 2	TOTAL	2.25" INSERT (6 FT.)	DRIVEN 7 GA.	CONCRETE 7 GA.	
	IN.					IN.			LF	LF	LF		LBS	IN.	LF	LF		LBS	EACH	IN.	LF	LBS	CY YDS	EACH	EACH	LF	LF	ITEM NO. 9031270A	ITEM NO. 9031271A	ITEM NO. 9031273A	ITEM NO. 9E+06	LF	LF	ITEM NO. 9031280	ITEM NO. 9031272A	ITEM NO. 9031281A	ITEM NO. 9031285	
																			NO.	LGTH	TOTAL	TOTAL																
1	36x48	189	274+88		LT.	48	STD.																									11.5		11.5		1		1
2	36x36 24x30	189	274+08		LT.	81.91	STD.																									14.5		14.5		1		2
3	24x12 24x24	189	273+95		LT.	37	STD.																									10.75		10.75		1		3
4	18x24	189	269+33		LT.	24	STD.																									9.5		9.5		1		4
7	NOT INCLUDED IN PLANS																																					7
8	21x15 30x24	189	271+57		RT.	40	STD.																									11		11		1		8
10	36x48	189	275+21		LT.	48	STD.																									11.5		11.5		1		10
11	36x36 24x30	189	273+49		RT.	67	STD.																									14.5		14.5		1		11
12	18x24	189	274+32		RT.	24	STD.																									9.5		9.5		1		12
13	36x36 24x24	189	274+15		RT.	73.00	STD.																									14		14		1		13
14	18x24	189	274+71		RT.	24	STD.																									9.5		9.5		1		14
15	24x30	189	274+93		MEDIAN	30	STD.																									10		10		1		15
200	36x36 24x30	175	170+00		RT.	81.91	STD.																									14.5		14.5		1		200
201	36x36 24x30	176	177+35		LT.	81.91	STD.																									14.5		14.5		1		201
202	36x36 24x30	180	200+52		LT.	81.91	STD.																									14.5		14.5		1		202
203	36x36 24x30	182	215+75		RT.	81.91	STD.																									14.5		14.5		1		203
204	36x36 24x30	184	237+00		LT.	81.91	STD.																									14.5		14.5		1		204
SUBTOTALS 4						0							0					0				0	0	0	0			0	0	0	0			198.75	0	16	0	
SUBTOTALS 1						324							1358					64				2.43	15	0				0	0	0	0			308.75	0	28	0	
SUBTOTALS 2						324							1889					0				3.2	21	0				0	0	0	0			226.25	0	21	0	
SUBTOTALS 3						0							0					0				0	0	0				0	0	0	0			435.50	0	41	0	
SUBTOTALS						712							3247					64				5.63	36	0				0	0	0	0			1169.25	0	106	0	
PAY TOTALS						720							3250									5.7	0	0				0	0	0	0			1170	0	106	0	

NOTE: ✳ INDICATES SEE LINE ABOVE FOR LOCATION AS PART OF ASSEMBLY.

✳ BREAKAWAY ASSEMBLY IS INCIDENTAL FOR STRUCTURAL STEEL & PIPE POSTS

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ROUND PIPE POST AND FOOTING DATA TABLE

NOM. SIZE	WEIGHT		STUB	FOOTING	DEPTH	CONCRETE
(IN.)	LBS/FT	LBS/IN	LENGTH	DIA.		C.Y.
2.5	5.79	0.48	4′-3.5″	12″	4′-6″	0.13
4	10.79	0.9	5′-3.5″	18″	5′-6″	0.36

STRUCTURAL STEEL POST AND FOOTING DATA TABLE

POST	NOM. SIZE	WEIGHT		STUB	DIA.	FOOTING							
						LEVEL GROUND		6:1 GRADE		4:1 GRADE		3:1 OR 2:1 GRADE	
DES. NO.		LBS/FT	LBS/IN	LENGTH		DEPTH	C.Y.	DEPTH	C.Y.	DEPTH	C.Y.	DEPTH	C.Y.
1	W6	9	0.75	3′-0″	15″	3′-0″	0.14	3′-2″	0.15	3′-3″	0.16	3′-6″	0.16
2	W6	15	1.25	4′-0″	24″	4′-0″	0.47	4′-2″	0.5	4′-3″	0.51	4′-6″	0.51
3	W8	18	1.5	4′-6″	28″	4′-6″	0.71	4′-8″	0.73	4′-9″	0.74	5′-0″	0.74
4	W10	22	1.83	5′-0″	36″	5′-0″	1.31	5′-2″	1.36	5′-3″	1.39	5′-6″	1.39
5	W10	26	2.17	5′-0″	36″	5′-0″	1.31	5′-3″	1.37	5′-5″	1.43	5′-9″	1.43
6	W12	35	2.92	5′-6″	36″	5′-6″	1.44	5′-9″	1.52	5′-11″	1.56	6′-3″	1.56

STATE OF MISSOURI
JAMIE F. RANA
NUMBER PE-2005001034
PROFESSIONAL ENGINEER
Jamie F. Rana
01/28/2024 11:22:13 AM
JAMIE F. RANA - CIVIL
MO-PE-2005001034

DATE PREPARED
1/24/2024

ROUTE	STATE
N	MO
DISTRICT	SHEET NO.
SL	193

COUNTY
ST. LOUIS

JOB NO.
J6S3599

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)

SIGNING SHEET
POST QUANTITIES

STANDARD SIGN ASSEMBLIES

SIGN NUMBER	PLAN SHEET NO.	STATION	LOCATION	TYPE	SIGN DESCRIPTION, SIZES & NUMBER OF EACH
				SH	36X36 STOP R1-1
				SH	48" TRI. R1-2
				SH	36X48 SPEED LIMIT 35 R2-1
				SH	36X48 SPEED LIMIT 30 R2-1
				SH	36X36 KEEP LIVE MUSIC TURN HERE R3-7R
				SH	24X36 RIGHT LANE MUST EXIT R3-9b
				SH	24X30 R4-7
				SH	36X36 DO NOT ENTER R5-1
				SH	24X24 R5-2
				SH	36X12 ONE WAY R6-1L
				SH	36X12 ONE WAY R6-1R
				SH	18X24 NO PARKING R7-1D
				SH	18X24 NO PARKING R7-1L
				SH	36X24 WRONG WAY R5-1A
				SH	60" TRI. TRUCK R1-2
				SH	30X30 TURNING VEHICLES TO R10-15R
				SH	24X24 ADVISORY 70 M4-1 BL
				SH	30X24 115 M1-5
				SH	24X24 N M1-5a
				SH	21X15 JCT M2-1
				SH	24X12 EAST M3-2 BL
				SH	24X12 WEST M3-4 BL
				SH	21X15 M5-2L BL
				SH	21X15 M5-2R BL
				SH	21X15 M6-2R BL
				SH	12X36 OM3-L
				SH	12X36 OM3-R
				SHF	36X36 S1-1 FYG
				SHF	36X36 W2-6
				SHF	36X36 W11-1
				SHF	36X36 W12-1
				SHF	24X24 15 M.P.H. W13-1P
				SHF	24X30 SHARE THE ROAD W16-1P
				SHF	30X18 W16-7P FYG
				SHF	30X18 AHEAD W16-9P FYG
				SH	36X36 HERE TO R1-5L
				SH	36X48 DO NOT DRIVE ON SHOULDER R4-17
				SHF	30X18 AHEAD W16-9P
				SH	12x18 EMERGENCY VEHICLES ONLY TR42-6
				SH	24X24 NO TRUCKS
				SHF	36X36 W11-2
				SH	24X12 NORTH M3-1
				SH	24X12 SOUTH M3-3
				SH	36X48 CENTER LANE R3-9b

SIGN NUMBER	PLAN SHEET NO.	STATION	LOCATION	TYPE	SIGN DESCRIPTION, SIZES & NUMBER OF EACH
1	189	274+88	LT.	1	1
2	189	274+08	LT.	1	1
3	189	273+95	LT.	1	1
4	189	269+33	LT.	1	1
5	NOT INCLUDED IN JOB				
6	NOT INCLUDED IN JOB				
7	189	271+30	RT.		
8	189	271+57	RT.	1	1
9	NOT INCLUDED IN JOB				
10	189	x	RT.	1	1
11	189	273+49	RT.	1	1
12	189	274+32	RT.	1	1
13	189	274+15	RT.	1	1
14	189	274+71	RT.	1	1
15	189	274+93	MEDIAN	1	1
16	188	266+58	LT.	1	1
17	188	264+96	LT.	1	1
18	188	262+02	LT.	1	1
19	188	265+40	LT.	1	1
20	188	262+30	RT.	1	1
21	188	262+64	RT.	1	1
22	188	264+32	RT.	1	1
23	188	210+06	RT.	1	1
24	187	261+54	LT.	1	1
25	187	257+75	LT.	1	1
26	187	257+22	LT.	1	1
27	187	256+62	LT.	1	1
28	187	256+31	LT.	1	1
150	187	260+74	LT.	1	1
151	187	255+54	LT.	1	1
152	187	257+80	LT.	1	1
153	187	260+92	LT.	1	1
154	187	261+21	LT.	1	1
29	185	242+00	RT.		
30	186	247+98	RT.	1	1
31	185	245+42	RT.	1	1
32	186	247+58	RT.	1	1
33	186	248+54	RT.	1	1
34	186	249+64	RT.	1	1
35	186	251+51	RT.	1	1
36	186	252+91	RT.	1	1
155	186	252+76	RT.	1	1
156	185	245+29	LT.	1	1
157	185	244+95	RT.	1	1
37	185	243+55	RT.	1	1
38	185	239+69	RT.	1	1
39	185	239+89	RT.	1	1
40	185	240+09	RT.	1	1
41	184	238+98	LT.	1	1
42	184	239+18	LT.	1	1
43	184	239+38	LT.	1	1
44	185	239+38	RT.	1	1
45	185	239+58	RT.	1	1
46	185	239+78	RT.	1	1
47	185	240+10	RT.	1	1
48	185	240+30	RT.	1	1
49	185	240+44	RT.	1	1
50	185	243+49	RT.	1	1
51	185	244+64	RT.	1	1
52	184	210+06	LT.	1	1
53	184	232+39	LT.	1	1
158	184	234+97	LT.	1	1
159	184	233+11	LT.	1	1
160	184	234+04	RT.	1	1
161	184	234+48	MEDIAN	1	1
162	184	235+00	MEDIAN	1	1
163	184	238+96	RT.	1	1
167	184	235+00	RT.	1	1
164	183	224+72	LT.	1	1
166	183	232+04	RT.	1	1
54	183	231+28	MEDIAN	1	1
55	183	238+41	RT.	1	1
56	183	224+32	MEDIAN	1	1
57	182	221+45	MEDIAN	1	1
58	183	223+01	MEDIAN	1	1
59	182	227+87	MEDIAN	1	1
60	182	216+57	LT.	1	1
165	182	222+06	LT.	1	1
			SUBTOTALS	9	0 5 0 1 0 8 3 3 0 2 14 0 2 0 0 1 1 2 1 0 0 0 0 0 6 6 0 1 5 1 1 5 0 0 2 0 1 1 2 1 2 0 2

FYG = FLUORESCENT YELLOW-GREEN

NOTE: FOR RRFB, W11-2 & W16-7P SIGNS INCLUDED IN COST OF RRFB.

STATE OF MISSOURI
JAMIE F. RANA
NUMBER PE-2005001034
PROFESSIONAL ENGINEER
Jamie F. Rana
01/26/2024 11:22:51 AM
JAMIE F. RANA - CIVIL
MO-PE-2005001034

DATE PREPARED
1/24/2024

ROUTE	STATE
N	MO
DISTRICT	SHEET NO.
SL	194

COUNTY
ST. LOUIS

JOB NO.
J6S3599

CONTRACT ID.

PROJECT 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)

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

DISCLAIMER
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SIGN QUANTITY SHEET
MODIFIED D-30
SHEET 2 OF 3

STANDARD SIGN ASSEMBLIES

SIGN NUMBER	PLAN SHEET NO.	STATION	LOCATION	TYPE	SIGN DESCRIPTION, SIZES & NUMBER OF EACH
				SH	36X36 STOP R1-1
				SH	48" TRI. R1-2
				SH	36X48 SPEED LIMIT 35 R2-1
				SH	36X48 SPEED LIMIT 30 R2-1
				SH	36X36 RIGHT LANE MUST TURN RIGHT R3-7R
				SH	24X36 RIGHT LANE MUST EXIT R3-9b
				SH	24X30 R4-7
				SH	36X36 DO NOT ENTER R5-1
				SH	24X24 R5-2
				SH	36X12 ONE WAY R6-1L
				SH	36X12 ONE WAY R6-1R
				SH	18X24 NO PARKING R7-1D
				SH	18X24 NO PARKING R7-1L
				SH	36X24 WRONG WAY R5-1A
				SH	60" TRI. R1-2
				SH	30X30 TURNING VEHICLES YIELD R10-15R
				SH	24X24 (AUTUMN) 70 M1-1 BL
				SH	30X24 115 M1-5
				SH	24X24 N M1-5a
				SH	21X15 JCT M2-1
				SH	24X12 EAST M3-2 BL
				SH	24X12 WEST M3-4 BL
				SH	21X15 M5-2L BL
				SH	21X15 M5-2R BL
				SH	21X15 M6-2R BL
				SH	12X36 OM3-L
				SH	12X36 OM3-R
				SHF	36X36 S1-1 FYG
				SHF	36X36 W2-6
				SHF	36X36 W11-1
				SHF	36X36 W12-1
				SHF	24X24 15 M.P.H. W13-1P
				SHF	24X30 SHARE THE ROAD W16-1P
				SHF	30X18 W16-7P FYG
				SHF	30X18 AHEAD W16-9P FYG
				SH	36X36 HERE TO R1-5L
				SH	36X48 DO NOT DRIVE ON SHOULDER R4-17
				SHF	30X18 AHEAD W16-9P
				SH	12X18 FIRE LANE TR42-6
				SH	24X24 NO TRUCKS
				SHF	36X36 W11-2
				SH	24X12 NORTH M3-1
				SH	24X12 SOUTH M3-3
				SH	36X48 RIGHT LANE MUST EXIT R3-9b

SIGN NUMBER	PLAN SHEET NO.	STATION	LOCATION	SIGN DESCRIPTION, SIZES & NUMBER OF EACH
61	181	214+33	LT.	2 1 1 1 1
62	181	214+64	MEDIAN	1
64	181	213+65	MEDIAN	1
65	181	212+17	LT.	SPECIAL G.M. SIGN
66	181	210+06	TRUSS MOUNT	
67	181	209+89	LT.	1
68	181	208+88	LT.	1
69	181	208+67	TRUSS MOUNT	
70	181	207+36	MEDIAN	1
71	181	208+50	RT.	1
72	181	209+79	RT.	1
73	181	210+48	RT.	1
74	181	211+25	RT.	1 1
75	181	212+45	RT.	1
76	181	214+01	MEDIAN	1
77	181	1+15 R2	LT.	1
78	181	1+17 R2	RT.	1
79	181	TBD R2	LT.	(R) & RELOCATE
80	NOT INCLUDED IN JOB			
81	180	203+38	MEDIAN	1
82	180	202+15	LT.	
83	180	200+77	TRUSS MOUNT	1
84	180	BRIDGE	MOUNT	
85	180	201+83	RT.	1
86	180	1+81 R3	RT.	(R) & RELOCATE
87	180	1+01 R3	RT.	1
88	180	1+02 R3	LT.	1
89	NOT INCLUDED IN JOB			
90	179	198+39	MEDIAN	1
91	179	197+94	LT.	1
92	179	197+71	LT.	1
93	179	196+78	LT.	1
94	178	192+43	LT.	(R) & RELOCATE
95	179	197+96	LT.	1
96	179	194+64	RT.	1
97	179	195+48	RT.	1 1
98	179	195+91	RT.	SPECIAL G.M. SIGN
99	179	197+71	RT.	2 1 1 1 1
63	179	199+50	LT.	1 1
100	177	185+15	RT.	1
101	178	185+38	LT.	1
102	178	188+22	RT.	1
103	178	188+69	MEDIAN	1
104	178	192+40	RT.	1
105	178	191+30	RT.	1
106	177	182+78	LT.	1 1
107	177	181+40	LT.	1
108	177	179+23	LT.	1 1
109	177	185+07	LT.	1
110	NOT INCLUDED IN JOB			
111	NOT INCLUDED IN JOB			
112	177	179+22	RT.	1 1
113	177	182+74	RT.	1
114	176	175+21	LT.	1
115	176	173+01	LT.	1
116	176	173+94	LT.	1
117	176	177+20	RT.	1
118	NOT INCLUDED IN JOB			
119	NOT INCLUDED IN JOB			
120	NOT INCLUDED IN JOB			
121	NOT INCLUDED IN JOB			
122	176	171+04	RT.	1 1
123	175	169+94	RT.	1
124	176	168+60	RT.	1
125	176	168+60	RT.	1 1
126	175	169+08	LT.	1
127	NOT INCLUDED IN JOB			
128	NOT INCLUDED IN JOB			
129	175	168+60	RT.	1
200	175	170+00	RT.	1 1
201	176	177+35	LT.	1 1
202	180	200+52	LT.	1 1
203	182	215+75	RT.	1 1
204	184	237+00	LT.	1 1
SUBTOTALS				4 2 2 5 2 2 6 0 0 0 0 5 0 0 2 2 5 0 2 1 2 2 2 1 1 0 0 5 0 5 6 0 5 2 3 0 1 0 0 0 0 0 2 0
SUBTOTALS SHEET #194				9 0 5 0 1 0 8 3 3 0 2 14 0 2 0 0 1 1 2 1 0 0 0 0 0 6 6 0 1 5 1 1 5 0 0 2 0 1 1 2 1 2 0 2
FINAL TOTALS				13 2 7 5 3 2 14 3 3 0 2 19 2 2 2 2 6 1 4 1 / 1 2 2 2 1 1 6 6 5 1 10 7 1 10 2 3 2 1 1 1 2 1 2 2 2

✱ NOTE: 1 JCT. SIGN SHALL HAVE BLUE SHEETING, 1 SHOULD HAVE STD. SHEETING

FYG = FLUORESCENT YELLOW-GREEN

NOTE: FOR RRFB, W11-2 & W16-7P SIGNS INCLUDED IN COST OF RRFB.

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STATE OF MISSOURI
JAMIE F. RANA
NUMBER PE-2005001034
PROFESSIONAL ENGINEER
Jamie F. Rana
01/26/2024 11:22:34 AM
JAMIE F. RANA - CIVIL
MO-PE-2005001034

DATE PREPARED: 1/24/2024

ROUTE	STATE
N	MO
DISTRICT	SHEET NO.
SL	195

COUNTY: ST. LOUIS

JOB NO.: J6S3599

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)

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

SIGN QUANTITY SHEET
MODIFIED D-30
SHEET 3 OF 3

SIGN SUMMARY

STANDARD SIGN OR SPECIAL SIGN NUMBER	SIGN DETAIL SHEET NO.	NO. EACH	SIZE, TYPE & SQUARE FEET				
			SIZE	FLAT SHEET SH ITEM NO. 9035004A	FLAT SHEET FLUORESCENT SHF ✳ ITEM NO. 9035069A	STRUCTURAL ST ITEM NO. 9035011A	STRUCTURAL FLUORESCENT STF ✳ ITEM NO. 9035071A
R1-1 STOP	STD	13	36X36	117			
R1-2 YIELD	STD	2	48 TRI.	13.9			
R1-2 YIELD	STD	2	60 TRI.	21.7			
R2-1 SPEED LIMIT 35	STD	7	36X48	84			
R2-1 SPEED LIMIT 30	STD	5	36X48	60			
R3-7R RIGHT LANE MUST TURN RIGHT	STD	3	36X36	27			
R3-9b CENTER LANE ONLY	STD	2	24X36	12			
R4-7 KEEP RIGHT (SUMBOL)	STD	14	24X30	70			
R5-1 DO NOT ENTER	STD	3	36X36	27			
R5-2 NO TRUCKS	STD	3	24X24	12			
R6-1L ONE WAY IN ARROW (LEFT)	STD	0	36X12	0			
R6-1R ONE WAY IN ARROW (RIGHT)	STD	2	36X12	6			
R7-1D NO PARKING(BOTH DIRECTIONS)	STD	19	18X24	57			
R7-1L NO PARKING (LEFT)	STD	2	18X24	6			
I4-1 CITY LIMIT (NORMANDY) - SIGN #72b	197	1	60x24			10	
I4-1 CITY LIMIT (COOL VALLEY) - SIGNs #67b & 129b	197	2	72x24			24	
I4-1 CITY LIMIT (FERGUSON) - SIGN #126b	197	1	54x24			9	
R3-9b CENTER LANE ONLY (OVERSIZE)	STD	2	36X48	24			
M1-1 INTERSTATE 70 (BLUE)	STD	6	24X24	24			
M1-5 ROUTE 115	STD	1	30X24	5			
M1-5a ROUTE N	STD	4	24X24	16			
M3-1 NORTH	STD	2	24X12	4			
M3-3 SOUTH	STD	2	24X12	4			
M2-1 JUNCTION MARKER (BLUE)	STD	1	21X15	2.2			
M3-2 EAST- DIRECTION MARKER (BLUE)	STD	2	24X12	4			
M3-4 WEST- DIRECTION MARKER (BLUE)	STD	2	24X12	4			
M5-2R ADVANCE TURN ARROW 45° RIGHT (BLUE)	STD	1	21X15	2.2			
M5-2L ADVANCE TURN ARROW 45°LEFT (BLUE)	STD	2	21X15	4.4			
M6-2R ARROW 45°RIGHT (BLUE)	STD	1	21X15	2.2			
OM3-L OBJECT MARKER SIGN (LEFT)	STD	6	12X36		18		
OM3-R OBJECT MARKER SIGN (RIGHT)	STD	6	12X36		18		
S1-1 SCHOOL CROSSING ✳	STD	5	36X36		45		
W2-6 CIRCULAR INTERSECTION	STD	1	36X36		9		
W11-1 BICYCLE	STD	10	36X36		90		
W12-1 DOUBLE DOWN ARROW	STD	7	36X36		63		
W13-1P ADVISORY SPEED 15	STD	1	24X24		4		
W16-1P SHARE THE ROAD	STD	10	24X30		50		
W16-7P 45° DIRECTIONAL ARROW (LEFT)	STD	2	30X18		7.5		
W16-9P AHEAD ✳	STD	3	30X18		11.3		
M2-1 JUNCTION MARKER	STD	1	21X15	2.2			
W16-9P AHEAD	STD	1	30X18		3.8		
R5-1A WRONG WAY	STD	2	36X24	12			
R1-5L (YIELD TO PEDESTRIAN)	STD	2	36X36	18			
W11-2 PEDESTRIAN	STD	1	36X36		9		
TR42-6 SIGN	STD	1	12X18	1.5			
"NO TRUCKS" SIGN	-	2	24X24	8			
R10-15R (TURNING VEH. YIELD TO PEDS)	STD	2	30X30	12.5			
R4-17 DO NOT DRIVE ON SHOULDER	-	1	24X30	5			
E1-1 EAST I-70 RIGHT ARROW ONLY - SIGN #66	197	1	8'x6'			48	
E1-1 WEST I-70 TWO LEFT ARROW ONLY - SIGN #69	198	1	11'x6'			66	
E1-1 EAST I-70 TWO LEFT ARROW ONLY - SIGN #84	198	1	11'x6'			66	
E1-1 WEST I-70 RIGHT ARROW ONLY - SIGN #83	198	1	8'x6'			48	
D1-2 STL/KC ARROWS - SIGN #98	198	1	9'x4'			36	
D1-2 KC/STL ARROWS - SIGN #65	197	1	9'x4'			36	
TOTALS				669	329	343	

✳ ORANGE, YELLOW & YELLOW/GREEN

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JAMIE F. RANA
NUMBER PE-2005001034
PROFESSIONAL ENGINEER
Jamie F. Rana
01/26/2024 11:23:09 AM
JAMIE F. RANA - CIVIL
MO-PE-2005001034

DATE PREPARED
1/24/2024

ROUTE	STATE
N	MO
DISTRICT	SHEET NO.
SL	196

COUNTY
ST. LOUIS

JOB NO.
J6S3599

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION	DATE

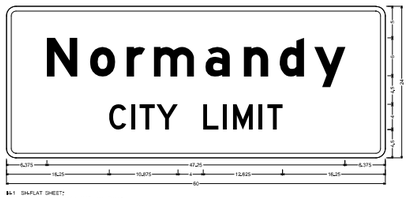
IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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

SIGN QUANTITY SHEET
MODIFIED D-30
SHEET 1 OF 3

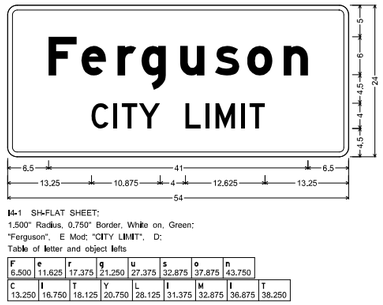
SIGN NO.	72b
STATION	209+79
ROADWAY	RTE. N



I4-1 SH-FLAT SHEET;
1.500" Radius, 0.750" Border, White on, Green;
"Normandy", E Mod; "CITY LIMIT", D;
Table of letter and object lefts

N	o	r	m	a	n	d	y
6.375	13.250	19.000	25.375	31.500	37.625	43.250	49.750
C	I	T	Y	L	M	I	T
16.250	19.750	21.125	23.750	31.125	36.375	39.875	45.250

SIGN NO.	126b
STATION	169+08
ROADWAY	RTE. N

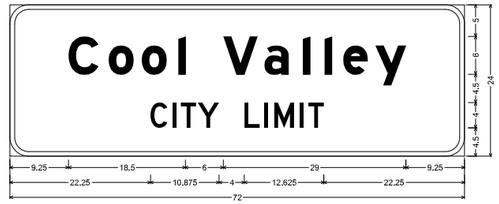


I4-1 SH-FLAT SHEET;
1.500" Radius, 0.750" Border, White on, Green;
"Ferguson", E Mod; "CITY LIMIT", D;
Table of letter and object lefts

F	e	r	g	u	s	o	n
6.500	11.625	17.375	21.250	27.375	32.875	37.875	43.750
C	I	T	Y	L	I	M	I	T
13.250	16.750	18.125	20.750	28.125	31.375	32.875	36.875	38.250

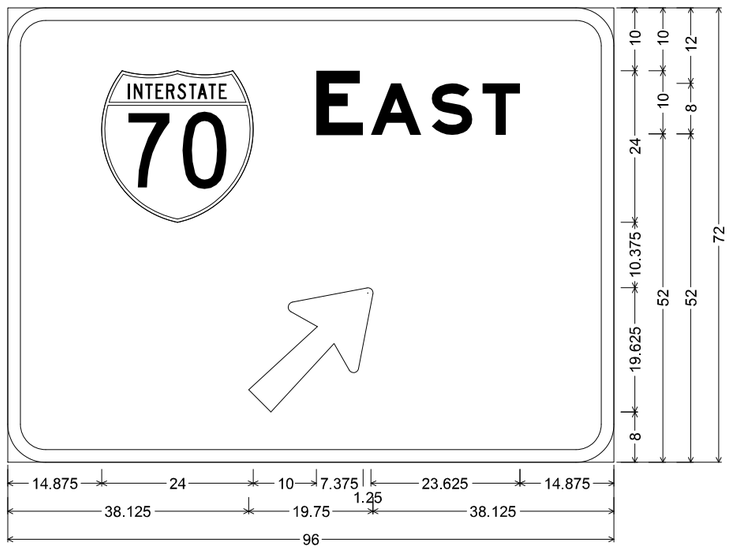
SIGN NO.	67b
STATION	209+89
ROADWAY	RTE. N

SIGN NO.	129b
STATION	168+60
ROADWAY	RTE. N



I4-1 ST-STRUCTURAL;
3.000" Radius, 0.750" Border, White on, Green;
"Cool Valley", E Mod; "CITY LIMIT", D;
Table of letter and object lefts

C	o	o	l	V	a	l	l	e	y
9.250	15.625	20.875	26.625	33.750	40.375	46.375	49.875	52.750	57.875
C	I	T	Y	L	I	M	I	T
22.250	25.750	27.125	29.750	37.125	40.375	41.875	45.875	47.250



SIGN NO.	66
STATION	210+06
ROADWAY	RTE. N

E1-1 ST-STRUCTURAL;
6.000" Radius, 2.000" Border, White on, Green;
Interstate 70 12.000" C; "EAST", E Mod; Arrow 80 - 25.000" 45';
Table of letter and object lefts

70	E	A	S	T
14.875	48.875	57.500	67.125	75.250
⇗				
38.125				

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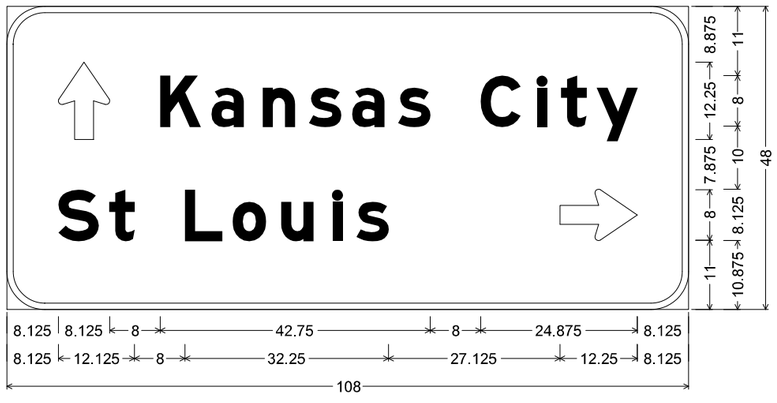


SIGN NO.	65
STATION	212+17
ROADWAY	RTE. N

D1-2 ST-STRUCTURAL;
6.000" Radius, 1.000" Border, White on, Green;
Standard Arrow Custom 12.250" X 8.125" 90'; "Kansas City", E Mod;
"St Louis", E Mod; Standard Arrow Custom 12.250" X 8.125" 0';
Table of letter and object lefts

⇧	K	a	n	s	a	s	C	i	t	y
8.125	24.250	32.375	40.500	47.875	54.625	62.000	75.000	84.000	87.750	93.375
S	t	L	o	u	i	s	⇨
8.125	16.250	28.250	35.750	43.500	51.625	55.375	87.625

STATE OF MISSOURI
JAMIE F. RANA
NUMBER PE-2005001034
PROFESSIONAL ENGINEER
Jamie F. Rana
01/28/2024 11:23:32 AM
JAMIE F. RANA - CIVIL
MO-PE-2005001034

DATE PREPARED
1/24/2024

ROUTE	STATE
N	MO
DISTRICT	SHEET NO.
SL	197

COUNTY
ST. LOUIS

JOB NO.
J6S3599

CONTRACT ID.

PROJECT NO.

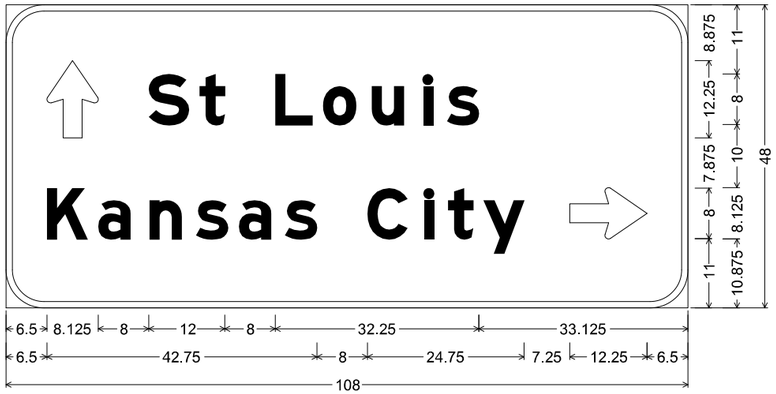
BRIDGE NO.

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)

SIGN DETAILS



SIGN NO.	98
STATION	195+91
ROADWAY	RTE. N

D1-2 ST-STRUCTURAL;
6.000" Radius, 1.000" Border, White on, Green;
Standard Arrow Custom 12.250" X 8.125" 90'; "St Louis", E Mod;
"Kansas City", E Mod; Standard Arrow Custom 12.250" X 8.125" 0';
Table of letter and object lefts

⇧	S	t	L	o	u	i	s
6.500	22.625	30.625	42.625	50.250	57.875	66.125	69.875

K	a	n	s	a	s	C	i	t	y	⇨
6.500	14.625	22.750	30.000	36.875	44.125	57.250	66.250	70.000	75.625	89.250

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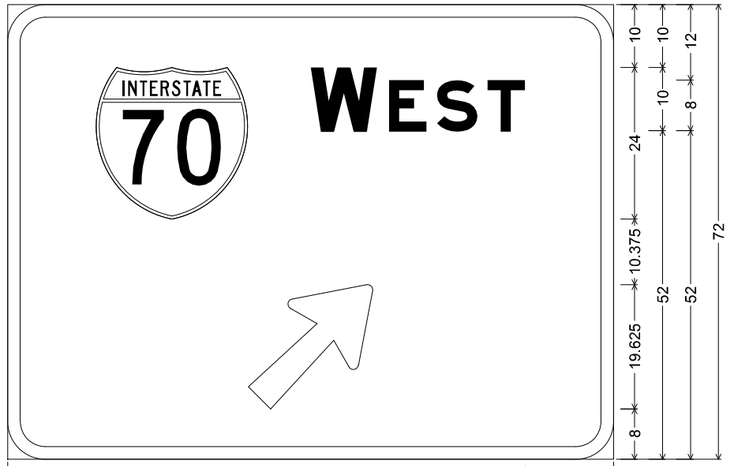
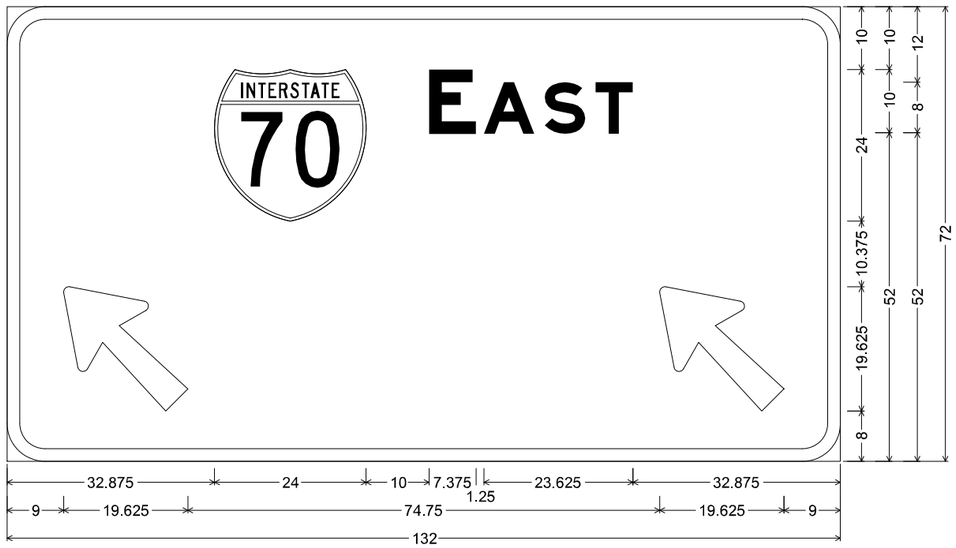


SIGN NO.	83
STATION	200+77
ROADWAY	RTE. N

E1-1 ST-STRUCTURAL;
6.000" Radius, 2.000" Border, White on, Green;
Interstate 70 12.000" C; "WEST", E Mod; Arrow 80 - 25.000" 45';
Table of letter and object lefts

70	W	E	S	T
14.000	48.000	60.375	68.000	76.000

⇗
38.125

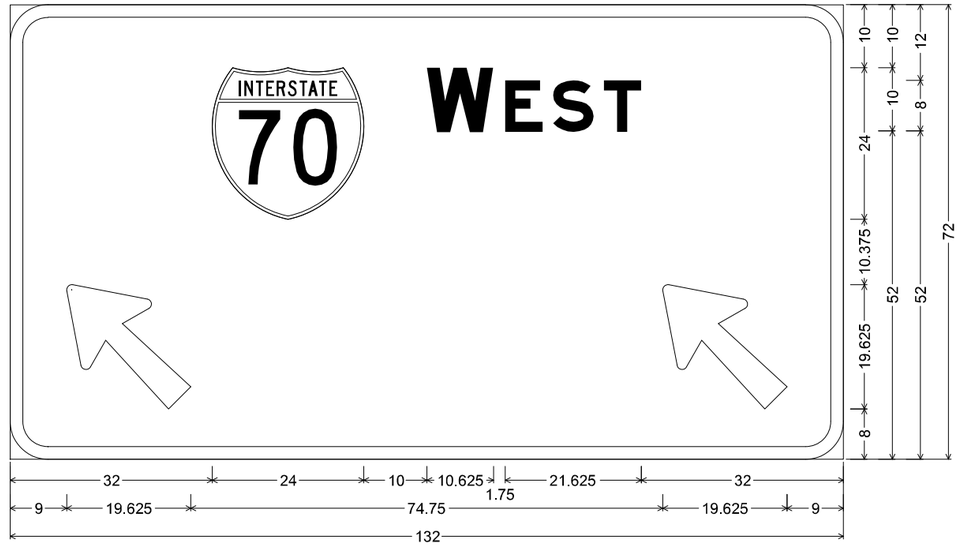


E1-1 ST-STRUCTURAL;
6.000" Radius, 2.000" Border, White on, Green;
Interstate 70 12.000" C; "EAST", E Mod; Arrow 80 - 25.000" 135"; Arrow 80 - 25.000" 135';
Table of letter and object lefts

70	E	A	S	T
32.875	66.875	75.500	85.125	93.250

⇖	⇖
9.000	103.375

SIGN NO.	84
STATION	BRIDGE MOUNT
ROADWAY	RTE. N



E1-1 ST-STRUCTURAL;
6.000" Radius, 2.000" Border, White on, Green;
Interstate 70 12.000" C; "WEST", E Mod; Arrow 80 - 25.000" 135"; Arrow 80 - 25.000" 135';
Table of letter and object lefts

70	W	E	S	T
32.000	66.000	78.375	86.000	94.000

⇖	⇖
9.000	103.375

SIGN NO.	69
STATION	208+67
ROADWAY	RTE. N

STATE OF MISSOURI
JAMIE F. RANA
NUMBER PE-2005001034
PROFESSIONAL ENGINEER
Jamie F. Rana
01/24/2024 11:23:52 AM
JAMIE F. RANA - CIVIL
MO-PE-2005001034

DATE PREPARED
1/24/2024

ROUTE	STATE
N	MO
DISTRICT	SHEET NO.
SL	198

COUNTY
ST. LOUIS
JOB NO.
J6S3599
CONTRACT ID.
PROJECT NO.
BRIDGE NO.

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

DESCRIPTION	DATE

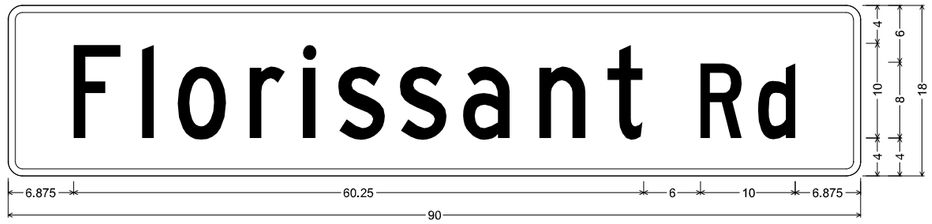
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

SIGN 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.

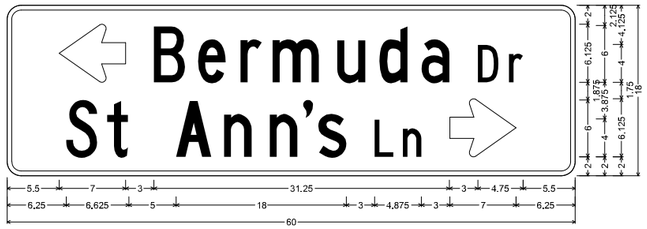
SIGN NO.	SIGNAL SIGN
STATION	
ROADWAY	RTE. N



D3-1 SH-FLAT SHEET;
1.500" Radius, 0.750" Border, White on, Green;
"Florissant", C; "Rd", C;
Table of letter and object lefts

F	l	o	r	i	s	s	a	n	t	R	d
6.875	14.000	17.875	25.500	31.125	34.875	41.375	48.000	56.125	63.250	73.125	79.125

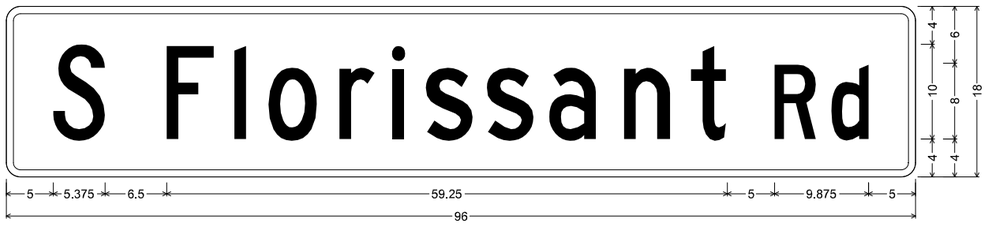
SIGN NO.	SIGNAL SIGN
STATION	
ROADWAY	RTE. N



D3-1b SH-FLAT SHEET:
1.500" Radius, 0.500" Border, White on, Green;
Standard Arrow Custom 7.000" X 6.125" 180; "Bermuda", C; "Dr", C; "St Ann's", C; "Ln", C;
Standard Arrow Custom 7.000" X 6.125" 0;
Table of letter and object lefts

⇦	B	e	r	m	u	d	a	D	r	⇨
5.500	15.500	20.125	24.625	28.000	34.875	39.375	43.750	49.750	53.000	
S	t	A	n	n	.	s	L	n		
6.250	10.500	17.875	22.875	27.750	31.375	32.875	38.875	41.750	46.750	

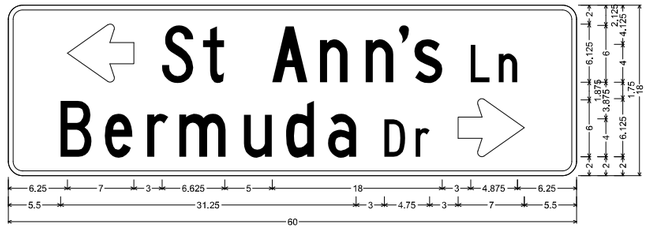
SIGN NO.	SIGNAL SIGN
STATION	
ROADWAY	RTE. N



D3-1 SH-FLAT SHEET;
1.500" Radius, 0.750" Border, White on, Green;
"S Florissant", C 95% spacing; "Rd", C 95% spacing;
Table of letter and object lefts

S	F	l	o	r	i	s	s	a	n	t	R	d	
5.000	16.875	23.875	27.750	35.125	40.750	44.250	50.750	57.375	65.250	72.250	81.125	87.125	

SIGN NO.	SIGNAL SIGN
STATION	
ROADWAY	RTE. N



D3-1b SH-FLAT SHEET:
1.500" Radius, 0.500" Border, White on, Green;
Standard Arrow Custom 7.000" X 6.125" 180; "St Ann's", C; "Ln", C; "Bermuda", C; "Dr", C;
Standard Arrow Custom 7.000" X 6.125" 0;
Table of letter and object lefts

⇦	S	t	A	n	n	.	s	L	n	
6.250	16.250	20.500	27.875	32.875	37.750	41.375	42.875	48.875	51.750	
B	e	r	m	u	d	a	D	r	⇨	
5.500	10.125	14.625	18.000	24.875	29.375	33.750	39.750	43.000	47.500	

STATE OF MISSOURI
JAMIE F. RANA
NUMBER PE-2005001034
PROFESSIONAL ENGINEER
Jamie F. Rana
01/26/2024 11:24:10 AM
JAMIE F. RANA - CIVIL
MO-PE-2005001034

DATE PREPARED
1/24/2024

ROUTE	STATE
N	MO
DISTRICT	SHEET NO.
SL	199

COUNTY
ST. LOUIS

JOB NO.
J6S3599

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)

SIGN DETAILS

DISCLAIMER

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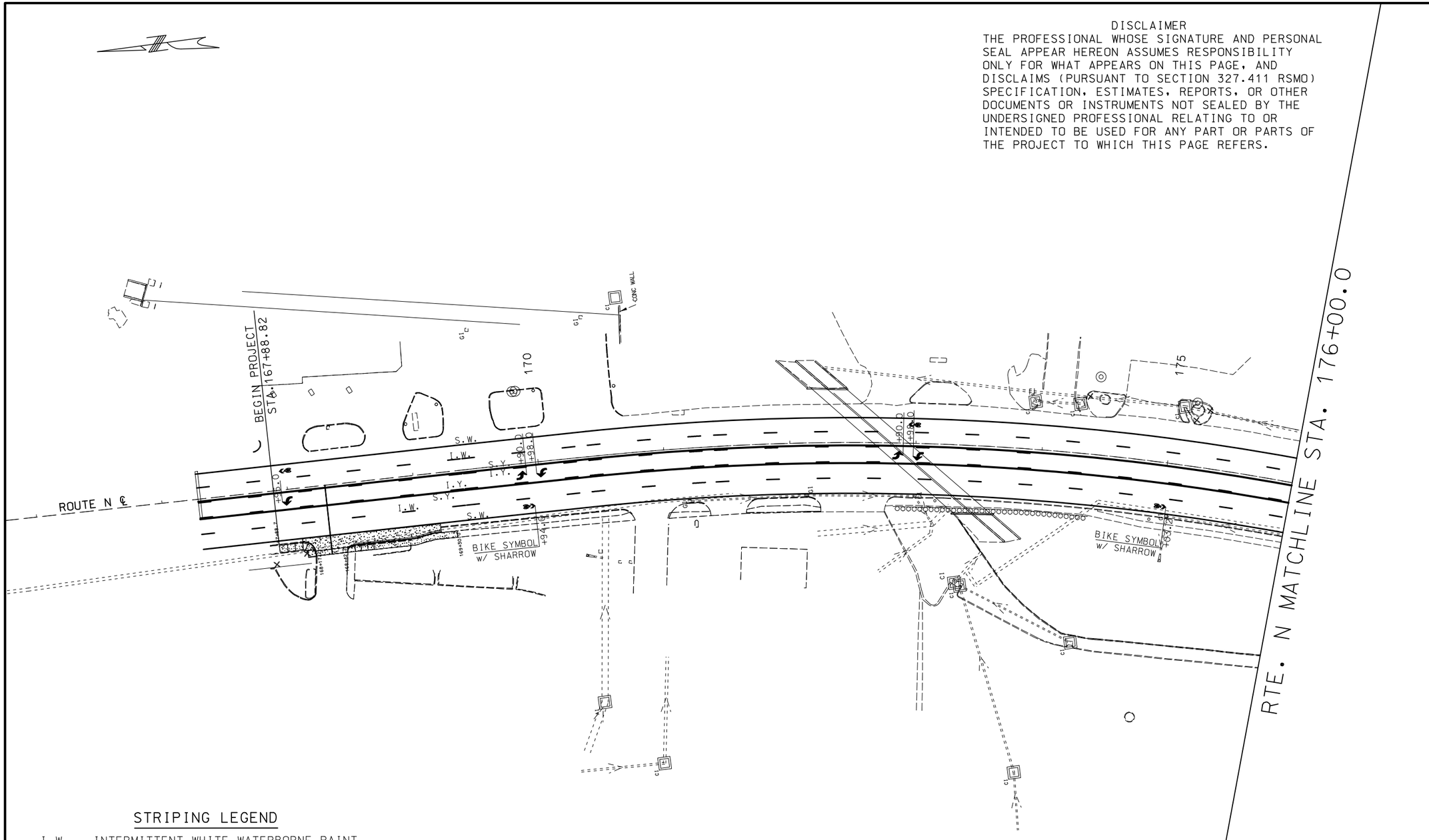

STRIPING LEGEND

I.W.	INTERMITTENT WHITE WATERBORNE PAINT
S.W.	SOLID WHITE WATERBORNE PAINT
I.Y.	INTERMITTENT YELLOW WATERBORNE PAINT
S.Y.	SOLID YELLOW WATERBORNE PAINT
	PREFORMED THERMOPLASTIC PAVEMENT MARKING ARROW
	PREFORMED THERMOPLASTIC PAVEMENT MARKING 24" WHITE (STOP BAR)
	PREFORMED THERMOPLASTIC PAVEMENT MARKING 12" WHITE (YIELD TRIANGLES)
	PREFORMED THERMOPLASTIC PAVEMENT MARKING 30" WHITE (MIDBLOCK)

NOTE: ALL STRIPING ON RTE. N (MINOR ROAD) SHALL BE 4" STRIPING UNLESS OTHERWISE NOTED.

SCALE
0 40 80 120

STATE OF MISSOURI
JAMIE F. RANA
NUMBER PE-2005001034
PROFESSIONAL ENGINEER
Jamie F. Rana
01/27/2024 3:13:17 PM
JAMIE F. RANA - CIVIL
MO-PE-2005001034

DATE PREPARED
1/24/2024

ROUTE	STATE
N	MO
DISTRICT	SHEET NO.
SL	200

COUNTY
ST. LOUIS

JOB NO.
J6S3599

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)

PAVEMENT MARKING PLANS

DISCLAIMER

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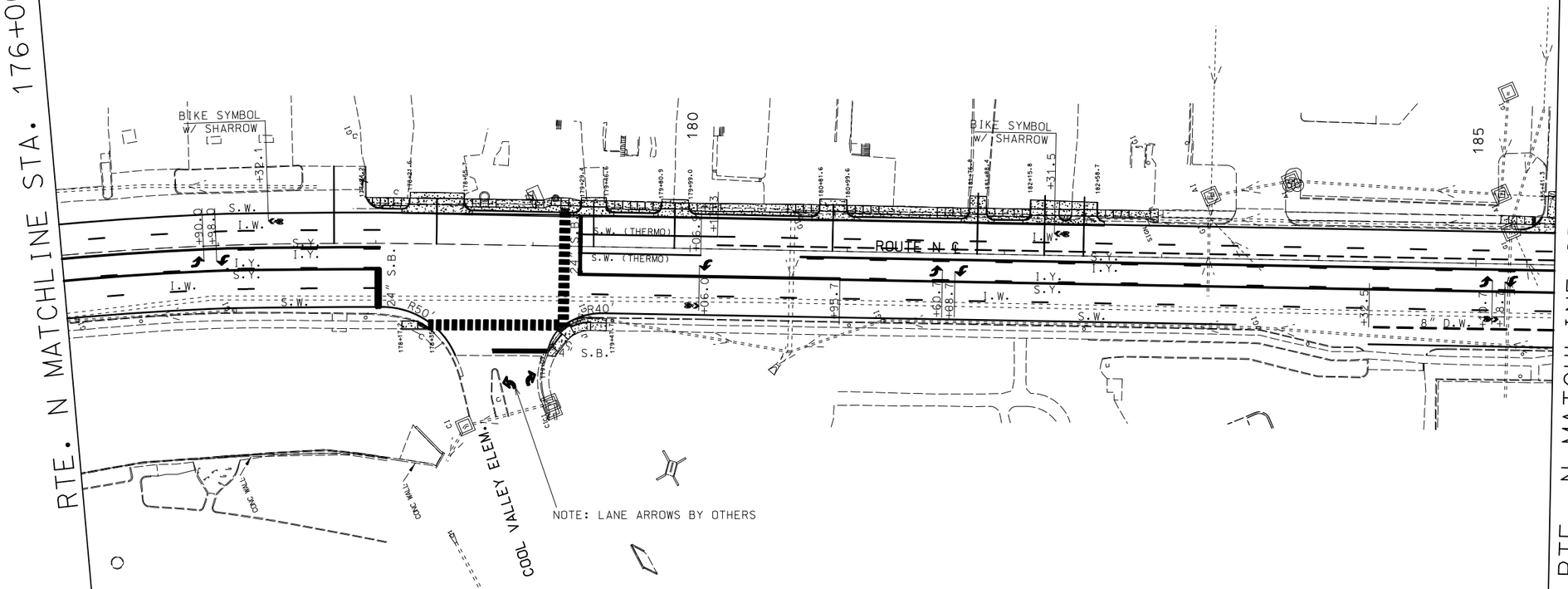

SCALE

0 40 80 120

STRIPING LEGEND

I.W.	INTERMITTENT WHITE WATERBORNE PAINT
D.W.	DOTTED WHITE WATERBORNE PAINT
S.W.	SOLID WHITE WATERBORNE PAINT
I.Y.	INTERMITTENT YELLOW WATERBORNE PAINT
S.Y.	SOLID YELLOW WATERBORNE PAINT
	PREFORMED THERMOPLASTIC PAVEMENT MARKING ARROW
	PREFORMED THERMOPLASTIC PAVEMENT MARKING 24" WHITE (STOP BAR)
▽▽▽▽▽▽▽	PREFORMED THERMOPLASTIC PAVEMENT MARKING 12" WHITE (YIELD TRIANGLES)
	PREFORMED THERMOPLASTIC PAVEMENT MARKING 30" WHITE (MIDBLOCK)

NOTE: ALL STRIPING ON RTE. N (MINOR ROAD) SHALL BE 4" STRIPING UNLESS OTHERWISE NOTED.

STATE OF MISSOURI
JAMIE F. RANA
NUMBER PE-2005001034
PROFESSIONAL ENGINEER

Jamie F. Rana
01/27/2024 3:13:41 PM
JAMIE F. RANA - CIVIL
MO-PE-2005001034
DATE PREPARED

1/24/2024

ROUTE	STATE
N	MO
DISTRICT	SHEET NO.
SL	201

COUNTY
ST. LOUIS

JOB NO.
J6S3599

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)

PAVEMENT MARKING PLANS

DISCLAIMER

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NOTE: ALL I.W. & DOTTED WHITE STRIPING ON SHEET #202 ON CONCRETE PAVEMENT SHALL HAVE CONTRAST BORDER AS WILL THERMOPLASTIC ARROWS & STOP BARS.

RTE. N MATCHLINE STA. 185+50.0

RTE. N MATCHLINE STA. 195+50.0

ROUTE N ℄

BIKE SYMBOL w/ SHARROW

BIKE SYMBOL w/ SHARROW

BIKE SYMBOL w/ SHARROW

END RESURFACING NORTH SECTION STA. 194+93.5

24" S.B.

24" S.B.

8" D.W.

8" S.W. (THERMO)

S.W.

I.W.

I.Y.

S.Y.

D.S.Y.

S.W. (THERMO)

INSTALL ARROWS 25' FROM STOP BAR & STRIPE 10' LANES ON EVANS

24" S.Y. HASH BARS

EVANS AVE.

ASPHALT PVMT

CONCRETE PVMT

ASPHALT CONCRETE

SCALE

0 40 80 120

STRIPING LEGEND

I.W.	INTERMITTENT WHITE WATERBORNE PAINT
S.W.	SOLID WHITE WATERBORNE PAINT
D.W.	DOTTED WHITE WATERBORNE PAINT
I.Y.	INTERMITTENT YELLOW WATERBORNE PAINT
S.Y.	SOLID YELLOW WATERBORNE PAINT

PREFORMED THERMOPLASTIC PAVEMENT MARKING ARROW

PREFORMED THERMOPLASTIC PAVEMENT MARKING 24" WHITE (STOP BAR)

PREFORMED THERMOPLASTIC PAVEMENT MARKING 12" WHITE (YIELD TRIANGLES)

PREFORMED THERMOPLASTIC PAVEMENT MARKING 30" WHITE (MIDBLOCK)

NOTE: ALL STRIPING ON RTE. N (MINOR ROAD) SHALL BE 4" STRIPING UNLESS OTHERWISE NOTED.

STATE OF MISSOURI
JAMIE F. RANA
NUMBER PE-2005001034
PROFESSIONAL ENGINEER

Jamie F. Rana
01/27/2024 3:14:18 PM
JAMIE F. RANA - CIVIL
MO-PE-2005001034

DATE PREPARED
1/24/2024

ROUTE	STATE
N	MO
DISTRICT	SHEET NO.
SL	202

COUNTY
ST. LOUIS

JOB NO.
J6S3599

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)

PAVEMENT MARKING PLANS

DISCLAIMER
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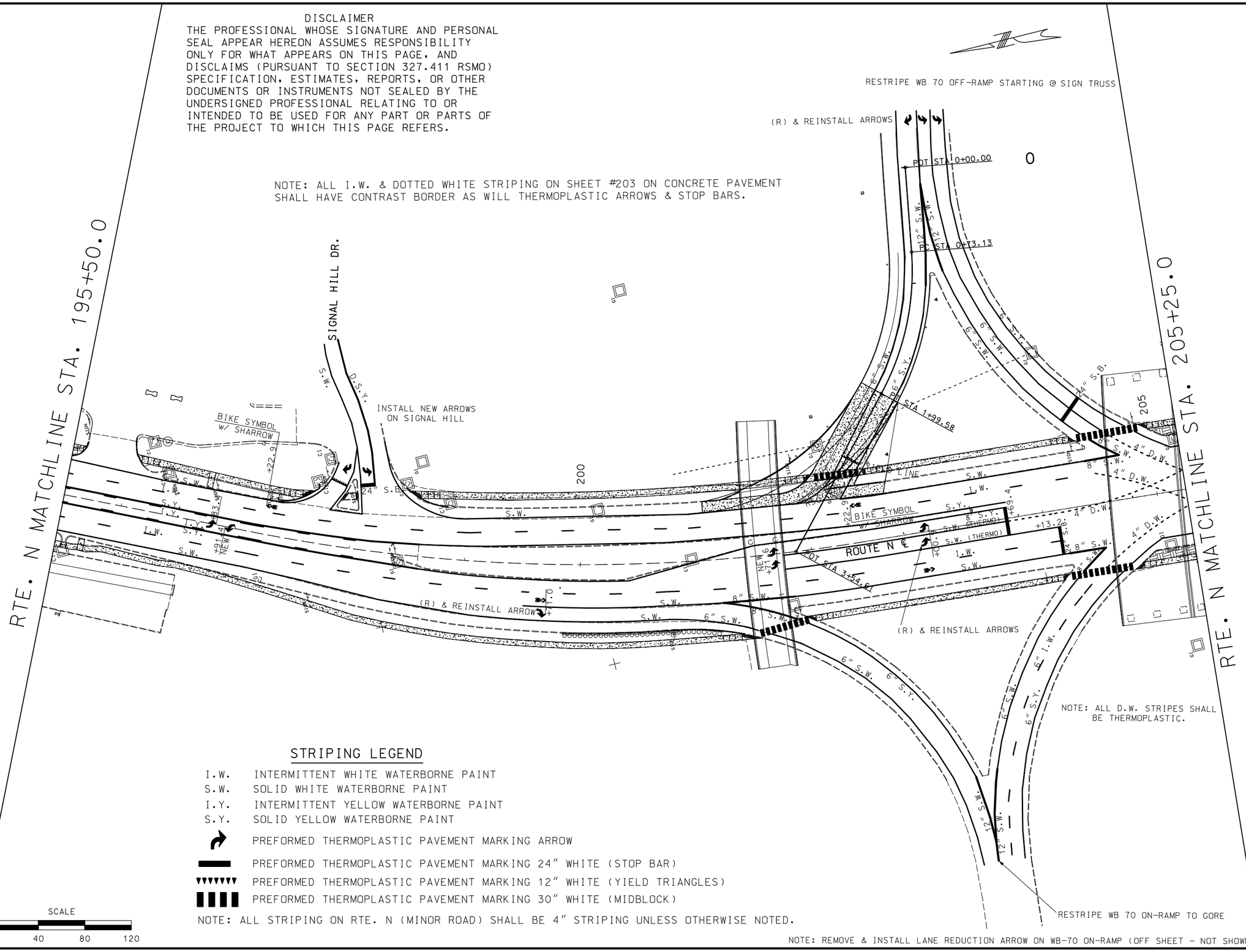
NOTE: ALL I.W. & DOTTED WHITE STRIPING ON SHEET #203 ON CONCRETE PAVEMENT SHALL HAVE CONTRAST BORDER AS WILL THERMOPLASTIC ARROWS & STOP BARS.



STRIPING LEGEND

I.W.	INTERMITTENT WHITE WATERBORNE PAINT
S.W.	SOLID WHITE WATERBORNE PAINT
I.Y.	INTERMITTENT YELLOW WATERBORNE PAINT
S.Y.	SOLID YELLOW WATERBORNE PAINT

PREFORMED THERMOPLASTIC PAVEMENT MARKING ARROW

PREFORMED THERMOPLASTIC PAVEMENT MARKING 24" WHITE (STOP BAR)

PREFORMED THERMOPLASTIC PAVEMENT MARKING 12" WHITE (YIELD TRIANGLES)

PREFORMED THERMOPLASTIC PAVEMENT MARKING 30" WHITE (MIDBLOCK)

NOTE: ALL STRIPING ON RTE. N (MINOR ROAD) SHALL BE 4" STRIPING UNLESS OTHERWISE NOTED.

SCALE
0 40 80 120

STATE OF MISSOURI
JAMIE F. RANA
NUMBER PE-2005001034
PROFESSIONAL ENGINEER
Jami F. Rana
01/27/2024 3:14:50 PM
JAMIE F. RANA - CIVIL
MO-PE-2005001034

DATE PREPARED
1/24/2024

ROUTE	STATE
N	MO
DISTRICT	SHEET NO.
SL	203

COUNTY
ST. LOUIS

JOB NO.
J6S3599

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)

PAVEMENT MARKING PLANS

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

RESTRIPE EB 70 ON-RAMP ±105' EAST OF GORE

NOTE: ALL I.W. & DOTTED WHITE STRIPING ON SHEET #204 ON CONCRETE PAVEMENT SHALL HAVE CONTRAST BORDER AS WILL THERMOPLASTIC ARROWS & STOP BARS.

STRIPING LEGEND

I.W. INTERMITTENT WHITE WATERBORNE PAINT
S.W. SOLID WHITE WATERBORNE PAINT
I.Y. INTERMITTENT YELLOW WATERBORNE PAINT
S.Y. SOLID YELLOW WATERBORNE PAINT

PREFORMED THERMOPLASTIC PAVEMENT MARKING ARROW
PREFORMED THERMOPLASTIC PAVEMENT MARKING 24" WHITE (STOP BAR)
PREFORMED THERMOPLASTIC PAVEMENT MARKING 12" WHITE (YIELD TRIANGLES)
PREFORMED THERMOPLASTIC PAVEMENT MARKING 30" WHITE (MIDBLOCK)

NOTE: ALL STRIPING ON RTE. N (MINOR ROAD) SHALL BE 4" STRIPING UNLESS OTHERWISE NOTED.

RTE. N MATCHLINE STA. 205+25.0

RTE. N MATCHLINE STA. 214+00.0

ROUTE N ℄

BIKE SYMBOL w/ SHARROW

NOTE: ALL D.W. STRIPES SHALL BE THERMOPLASTIC.

YIELD LINE

BEGIN TRANSITION TO 10.5' LANES
REMOVE EXIST. S.W. & I.W. STRIPE TO INTERSECTION

REMOVE EXIST. STR. & STR/RT. COMBO ARROW
NEW LOCATION FOR 2 STR. & 1 RT. TURN ARROWS

STRIPE 3-10.5' LANES (SB)
REMOVE 24" STOP BAR

EXIST. ARROWS REMOVED PRIOR TO NEW INSTALLATION

(R) & REINSTALL ARROWS

RESTRIPE EB 70 OFF-RAMP STARTING @ GORE

DISCLAIMER
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SCALE
0 40 80 120

STATE OF MISSOURI
JAMIE F. RANA
NUMBER PE-2005001034
PROFESSIONAL ENGINEER
Jamie F. Rana
01/27/2024 3:15:12 PM
JAMIE F. RANA - CIVIL
MO-PE-2005001034
DATE PREPARED
1/24/2024

ROUTE	STATE
N	MO
DISTRICT	SHEET NO.
SL	204

COUNTY
ST. LOUIS
JOB NO.
J6S3599
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)

PAVEMENT MARKING PLANS

STRIPING LEGEND

I.W. INTERMITTENT WHITE WATERBORNE PAINT
S.W. SOLID WHITE WATERBORNE PAINT
I.Y. INTERMITTENT YELLOW WATERBORNE PAINT
S.Y. SOLID YELLOW WATERBORNE PAINT

PREFORMED THERMOPLASTIC PAVEMENT MARKING ARROW
PREFORMED THERMOPLASTIC PAVEMENT MARKING 24" WHITE (STOP BAR)
PREFORMED THERMOPLASTIC PAVEMENT MARKING 12" WHITE (YIELD TRIANGLES)
PREFORMED THERMOPLASTIC PAVEMENT MARKING 30" WHITE (MIDBLOCK)

NOTE: ALL STRIPING ON RTE. N (MINOR ROAD) SHALL BE 4" STRIPING UNLESS OTHERWISE NOTED.

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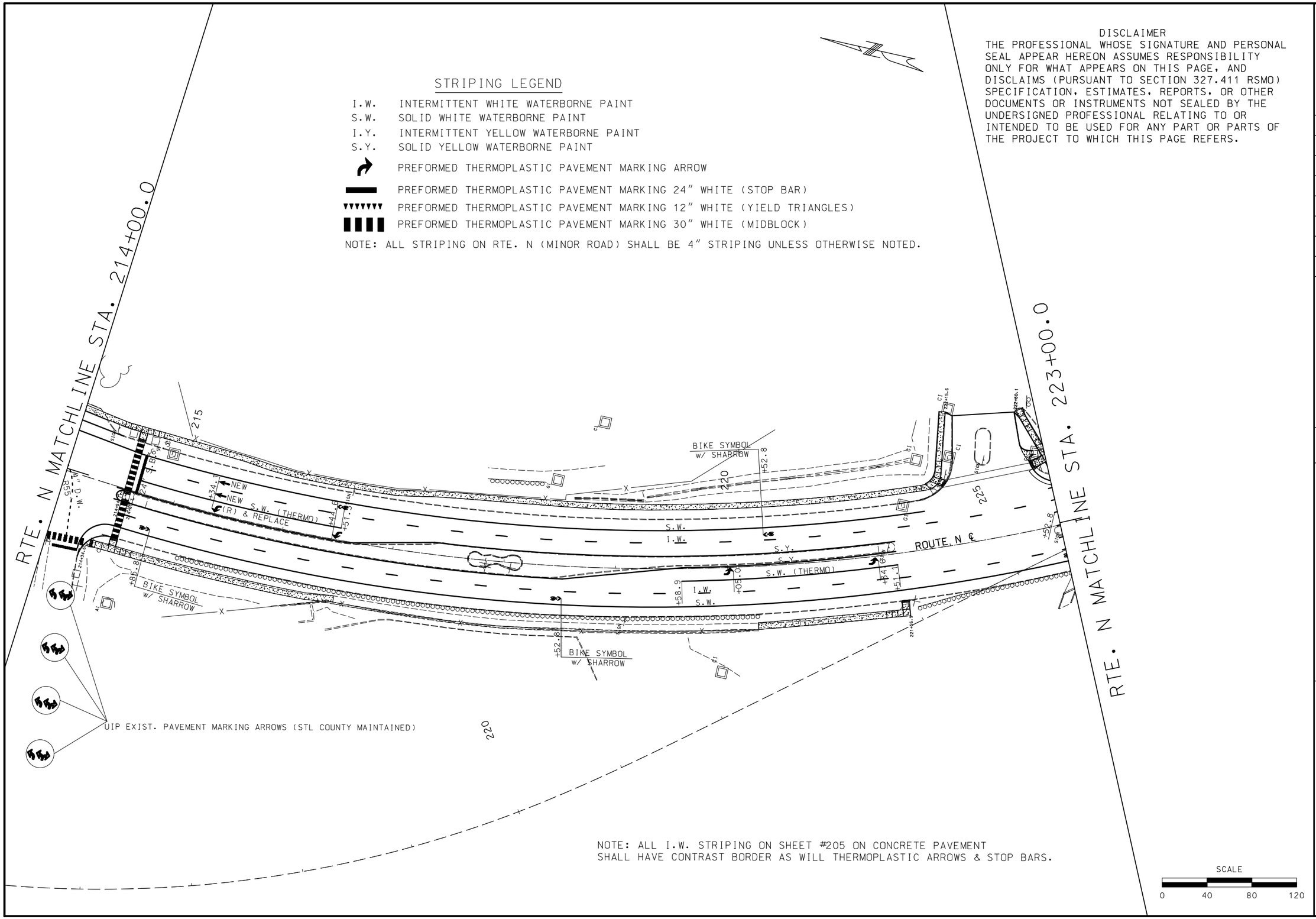


NOTE: ALL I.W. STRIPING ON SHEET #205 ON CONCRETE PAVEMENT SHALL HAVE CONTRAST BORDER AS WILL THERMOPLASTIC ARROWS & STOP BARS.

SCALE
0 40 80 120

STATE OF MISSOURI
JAMIE F. RANA
NUMBER PE-2005001034
PROFESSIONAL ENGINEER
Jamie F. Rana
01/27/2024 3:16:00 PM
JAMIE F. RANA - CIVIL
MO-PE-2005001034

DATE PREPARED
1/24/2024

ROUTE	STATE
N	MO
DISTRICT	SHEET NO.
SL	205

COUNTY
ST. LOUIS

JOB NO.
J6S3599

CONTRACT ID.

PROJECT NO.

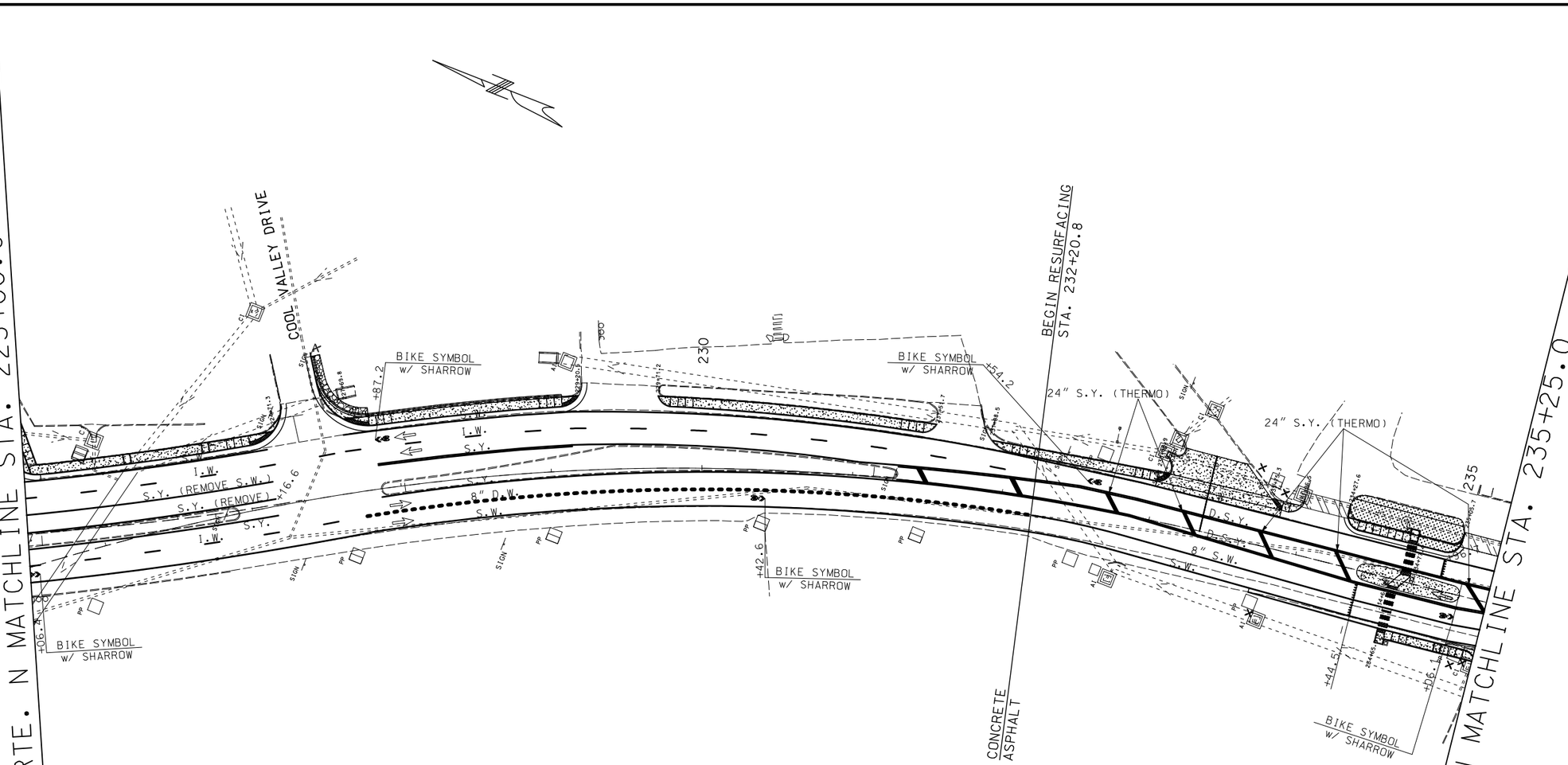
BRIDGE NO.

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)

PAVEMENT MARKING PLANS



NOTE: ALL I.W. & DOTTED WHITE STRIPING ON SHEET #206 ON CONCRETE PAVEMENT SHALL HAVE CONTRAST BORDER AS WILL THERMOPLASTIC ARROWS & STOP BARS.

STRIPING LEGEND

I.W.	INTERMITTENT WHITE WATERBORNE PAINT
S.W.	SOLID WHITE WATERBORNE PAINT
I.Y.	INTERMITTENT YELLOW WATERBORNE PAINT
S.Y.	SOLID YELLOW WATERBORNE PAINT
	PREFORMED THERMOPLASTIC PAVEMENT MARKING ARROW
	PREFORMED THERMOPLASTIC PAVEMENT MARKING 24" WHITE (STOP BAR)
	PREFORMED THERMOPLASTIC PAVEMENT MARKING 12" WHITE (YIELD TRIANGLES)
	PREFORMED THERMOPLASTIC PAVEMENT MARKING 30" WHITE (MIDBLOCK)

NOTE: ALL STRIPING ON RTE. N (MINOR ROAD) SHALL BE 4" STRIPING UNLESS OTHERWISE NOTED.

DISCLAIMER

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SCALE
0 40 80 120

STATE OF MISSOURI
JAMIE F. RANA
NUMBER PE-2005001034
PROFESSIONAL ENGINEER

Jamie F. Rana
01/27/2024 3:16:26 PM
JAMIE F. RANA - CIVIL
MO-PE-2005001034

DATE PREPARED
1/24/2024

ROUTE	STATE
N	MO
DISTRICT	SHEET NO.
SL	206

COUNTY
ST. LOUIS

JOB NO.
J6S3599

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)

PAVEMENT MARKING PLANS

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STRIPING LEGEND

I.W.	INTERMITTENT WHITE WATERBORNE PAINT
S.W.	SOLID WHITE WATERBORNE PAINT
I.Y.	INTERMITTENT YELLOW WATERBORNE PAINT
S.Y.	SOLID YELLOW WATERBORNE PAINT

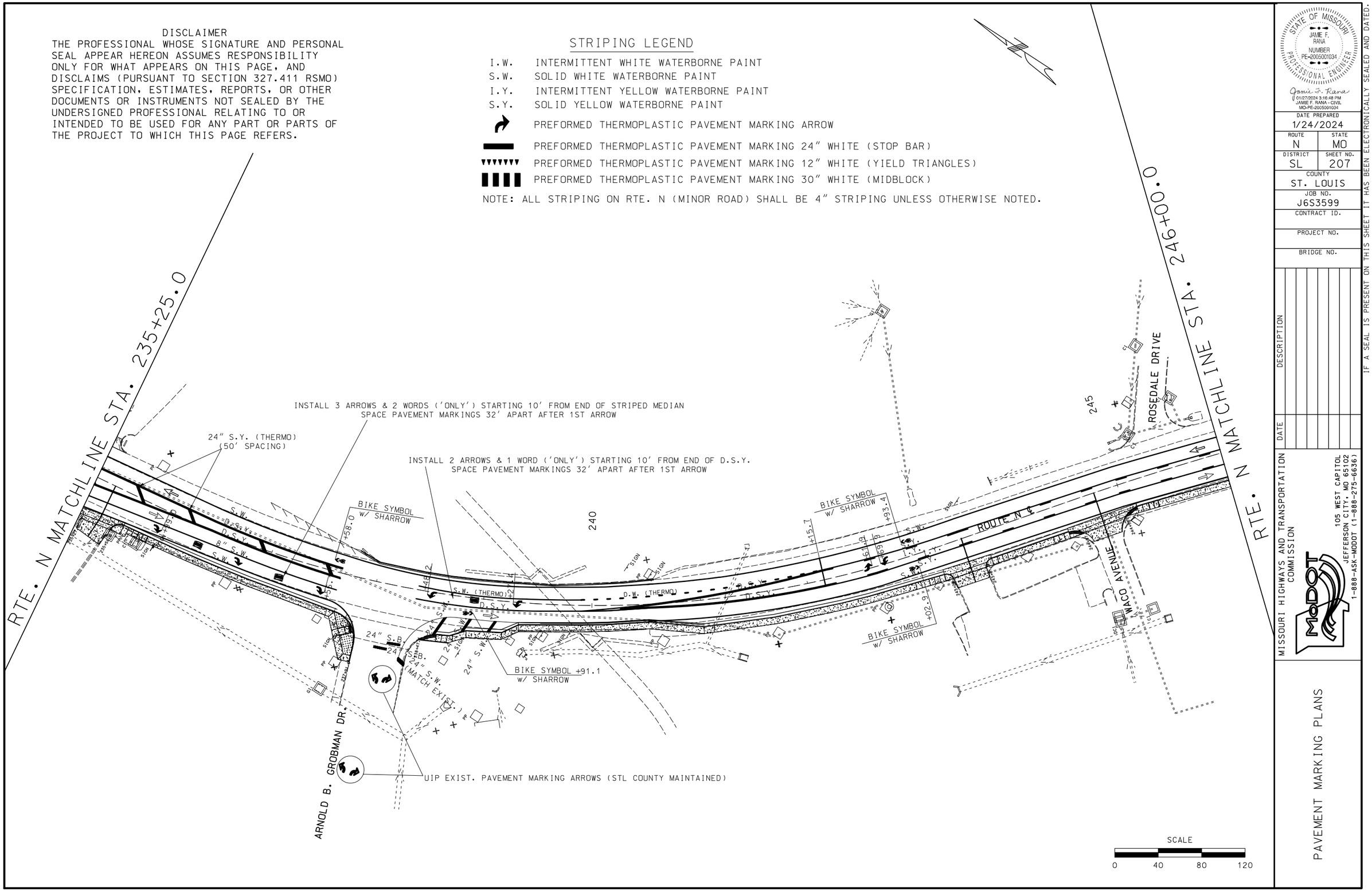
PREFORMED THERMOPLASTIC PAVEMENT MARKING ARROW

PREFORMED THERMOPLASTIC PAVEMENT MARKING 24" WHITE (STOP BAR)

PREFORMED THERMOPLASTIC PAVEMENT MARKING 12" WHITE (YIELD TRIANGLES)

PREFORMED THERMOPLASTIC PAVEMENT MARKING 30" WHITE (MIDBLOCK)

NOTE: ALL STRIPING ON RTE. N (MINOR ROAD) SHALL BE 4" STRIPING UNLESS OTHERWISE NOTED.



STATE OF MISSOURI
JAMIE F. RANA
NUMBER PE-2005001034
PROFESSIONAL ENGINEER
Jamie F. Rana
01/27/2024 3:16:48 PM
JAMIE F. RANA - CIVIL
MO-PE-2005001034

DATE PREPARED
1/24/2024

ROUTE	STATE
N	MO
DISTRICT	SHEET NO.
SL	207

COUNTY
ST. LOUIS

JOB NO.
J6S3599

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)

PAVEMENT MARKING PLANS

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.

STRIPING LEGEND

I.W.	INTERMITTENT WHITE WATERBORNE PAINT
S.W.	SOLID WHITE WATERBORNE PAINT
I.Y.	INTERMITTENT YELLOW WATERBORNE PAINT
S.Y.	SOLID YELLOW WATERBORNE PAINT

PREFORMED THERMOPLASTIC PAVEMENT MARKING ARROW

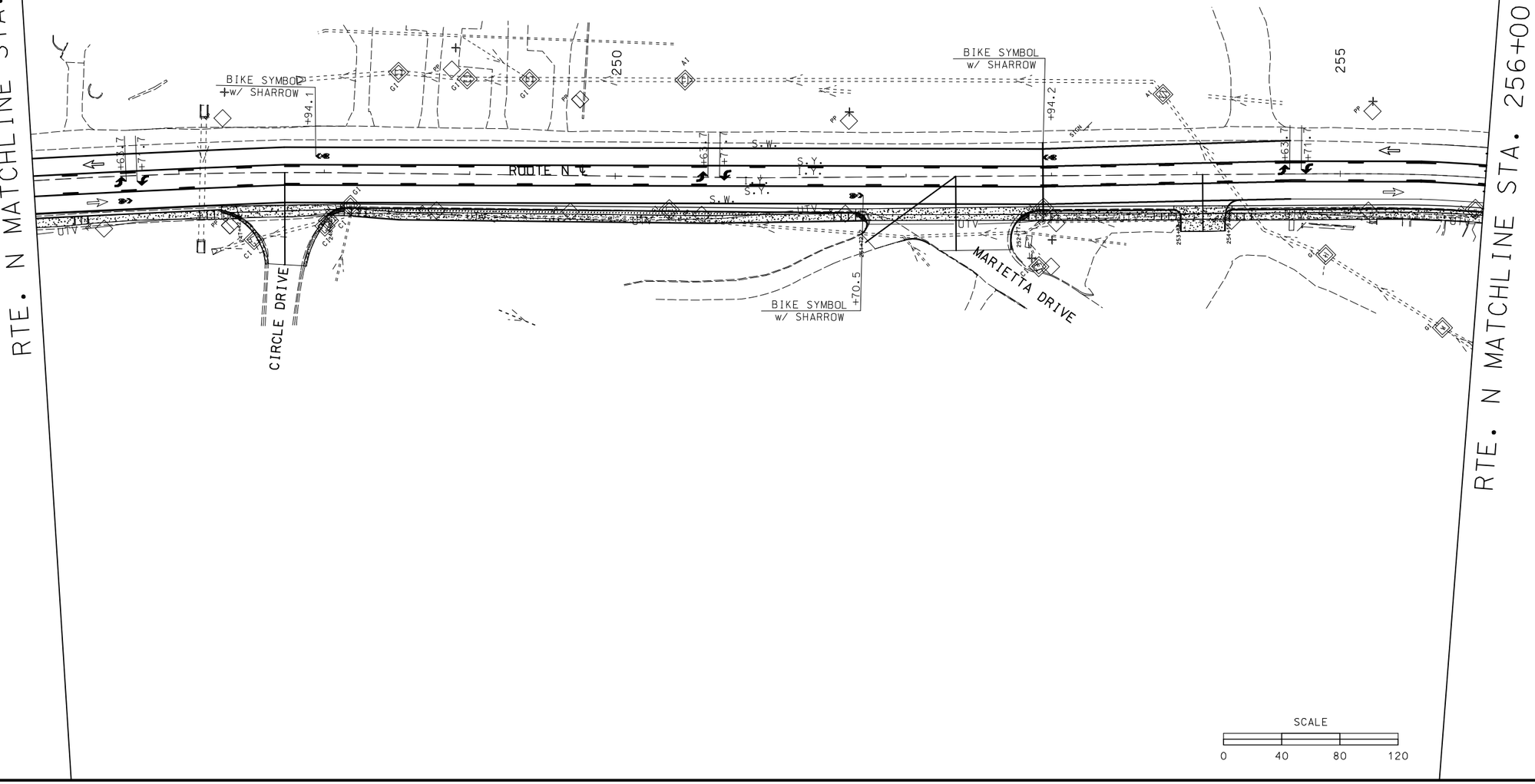
PREFORMED THERMOPLASTIC PAVEMENT MARKING 24" WHITE (STOP BAR)

PREFORMED THERMOPLASTIC PAVEMENT MARKING 12" WHITE (YIELD TRIANGLES)

PREFORMED THERMOPLASTIC PAVEMENT MARKING 30" WHITE (MIDBLOCK)

LANE USE ARROW

NOTE: ALL STRIPING ON RTE. N (MINOR ROAD) SHALL BE 4" STRIPING UNLESS OTHERWISE NOTED.



STATE OF MISSOURI
JAMIE F. RANA
NUMBER PE-2005001034
PROFESSIONAL ENGINEER
Jamie F. Rana
01/27/2024 3:17:32 PM
JAMIE F. RANA - CIVIL
MO-PE-2005001034

DATE PREPARED
1/24/2024

ROUTE	STATE
N	MO
DISTRICT	SHEET NO.
SL	208

COUNTY
ST. LOUIS

JOB NO.
J6S3599

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)

PAVEMENT MARKING PLANS

DISCLAIMER

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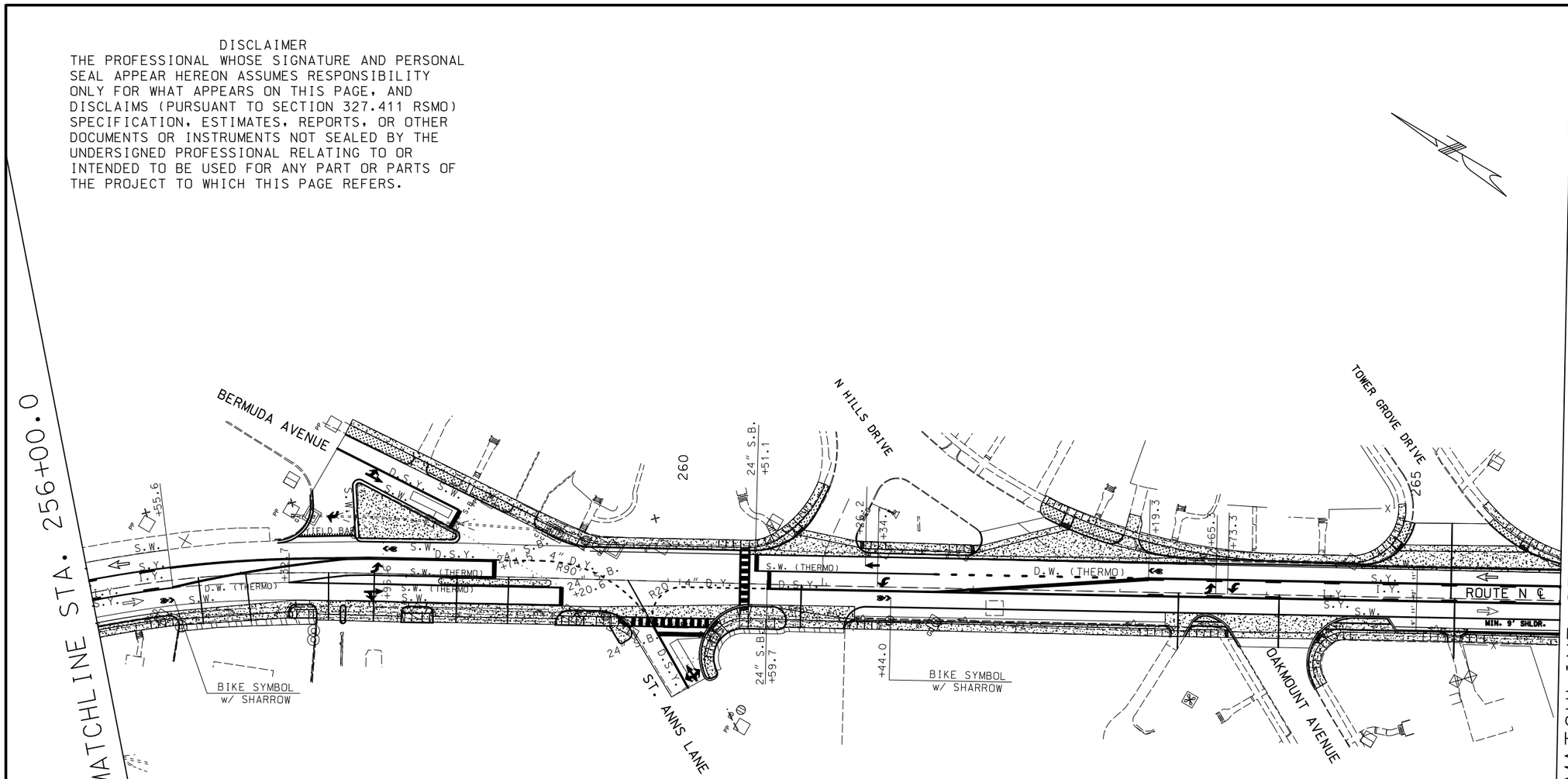

STRIPING LEGEND

I.W.	INTERMITTENT WHITE WATERBORNE PAINT
S.W.	SOLID WHITE WATERBORNE PAINT
D.W.	DOTTED WHITE WATERBORNE PAINT
I.Y.	INTERMITTENT YELLOW WATERBORNE PAINT
S.Y.	SOLID YELLOW WATERBORNE PAINT

PREFORMED THERMOPLASTIC PAVEMENT MARKING ARROW

PREFORMED THERMOPLASTIC PAVEMENT MARKING 24" WHITE (STOP BAR)

PREFORMED THERMOPLASTIC PAVEMENT MARKING 12" WHITE (YIELD TRIANGLES)

PREFORMED THERMOPLASTIC PAVEMENT MARKING 30" WHITE (MIDBLOCK)

LANE USE ARROW

NOTE: ALL STRIPING ON RTE. N (MINOR ROAD) SHALL BE 4" STRIPING UNLESS OTHERWISE NOTED.

SCALE
0 40 80 120

STATE OF MISSOURI
JAMIE F. RANA
NUMBER PE-2005001034
PROFESSIONAL ENGINEER
Jamie F. Rana
01/27/2024 3:17:57 PM
JAMIE F. RANA - CIVIL
MO-PE-2005001034

DATE PREPARED
1/24/2024

ROUTE	STATE
N	MO
DISTRICT	SHEET NO.
SL	209

COUNTY
ST. LOUIS

JOB NO.
J6S3599

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)

PAVEMENT MARKING PLANS

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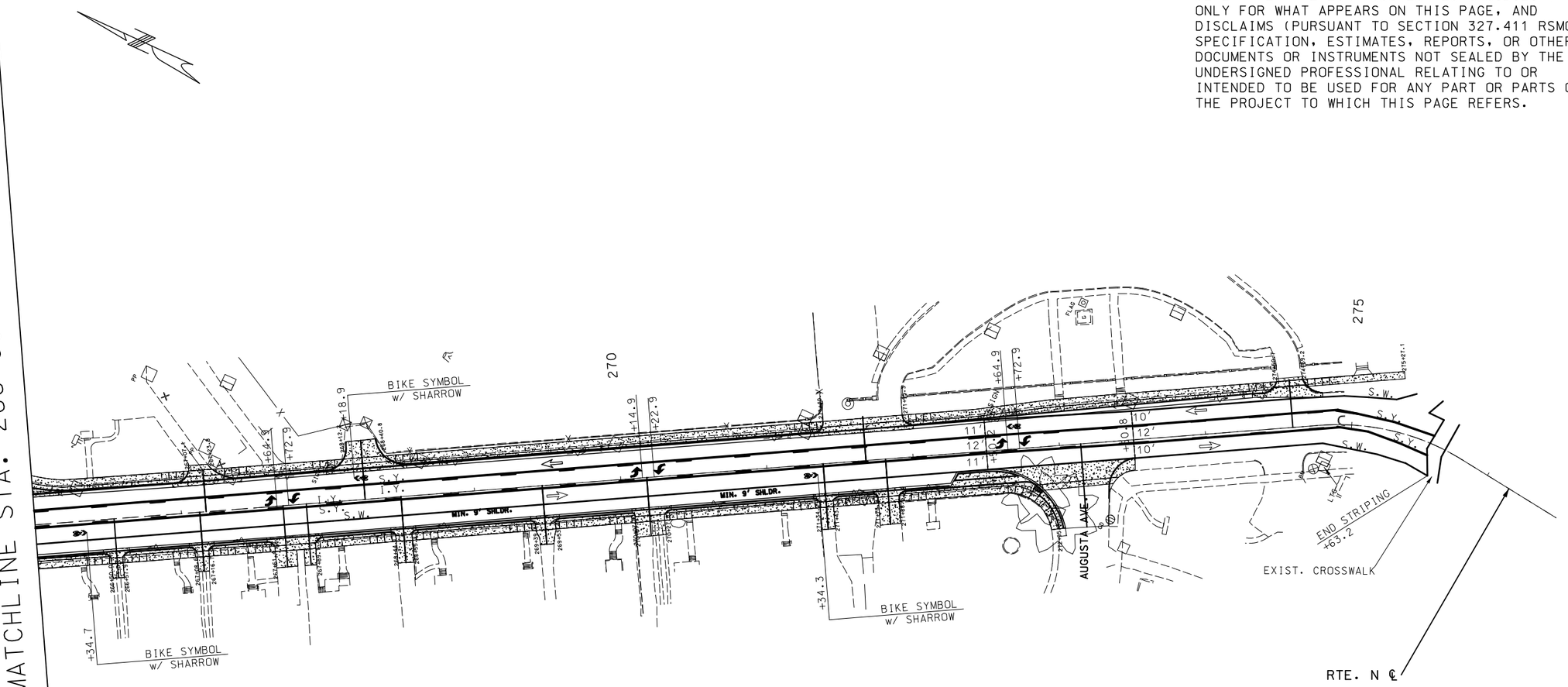

STRIPING LEGEND

I.W.	INTERMITTENT WHITE WATERBORNE PAINT
S.W.	SOLID WHITE WATERBORNE PAINT
I.Y.	INTERMITTENT YELLOW WATERBORNE PAINT
S.Y.	SOLID YELLOW WATERBORNE PAINT
	PREFORMED THERMOPLASTIC PAVEMENT MARKING ARROW
	PREFORMED THERMOPLASTIC PAVEMENT MARKING 24" WHITE (STOP BAR)
	PREFORMED THERMOPLASTIC PAVEMENT MARKING 12" WHITE (YIELD TRIANGLES)
	PREFORMED THERMOPLASTIC PAVEMENT MARKING 30" WHITE (MIDBLOCK)
	LANE USE ARROW

NOTE: ALL STRIPING ON RTE. N (MINOR ROAD) SHALL BE 4" STRIPING UNLESS OTHERWISE NOTED.

SCALE
0 40 80 120

STATE OF MISSOURI
JAMIE F. RANA
NUMBER PE-2005001034
PROFESSIONAL ENGINEER
Jamie F. Rana
01/27/2024 3:18:23 PM
JAMIE F. RANA - CIVIL
MO-PE-2005001034

DATE PREPARED
1/24/2024

ROUTE	STATE
N	MO
DISTRICT	SHEET NO.
SL	210

COUNTY
ST. LOUIS

JOB NO.
J6S3599

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)

PAVEMENT MARKING PLAN

DISCLAIMER
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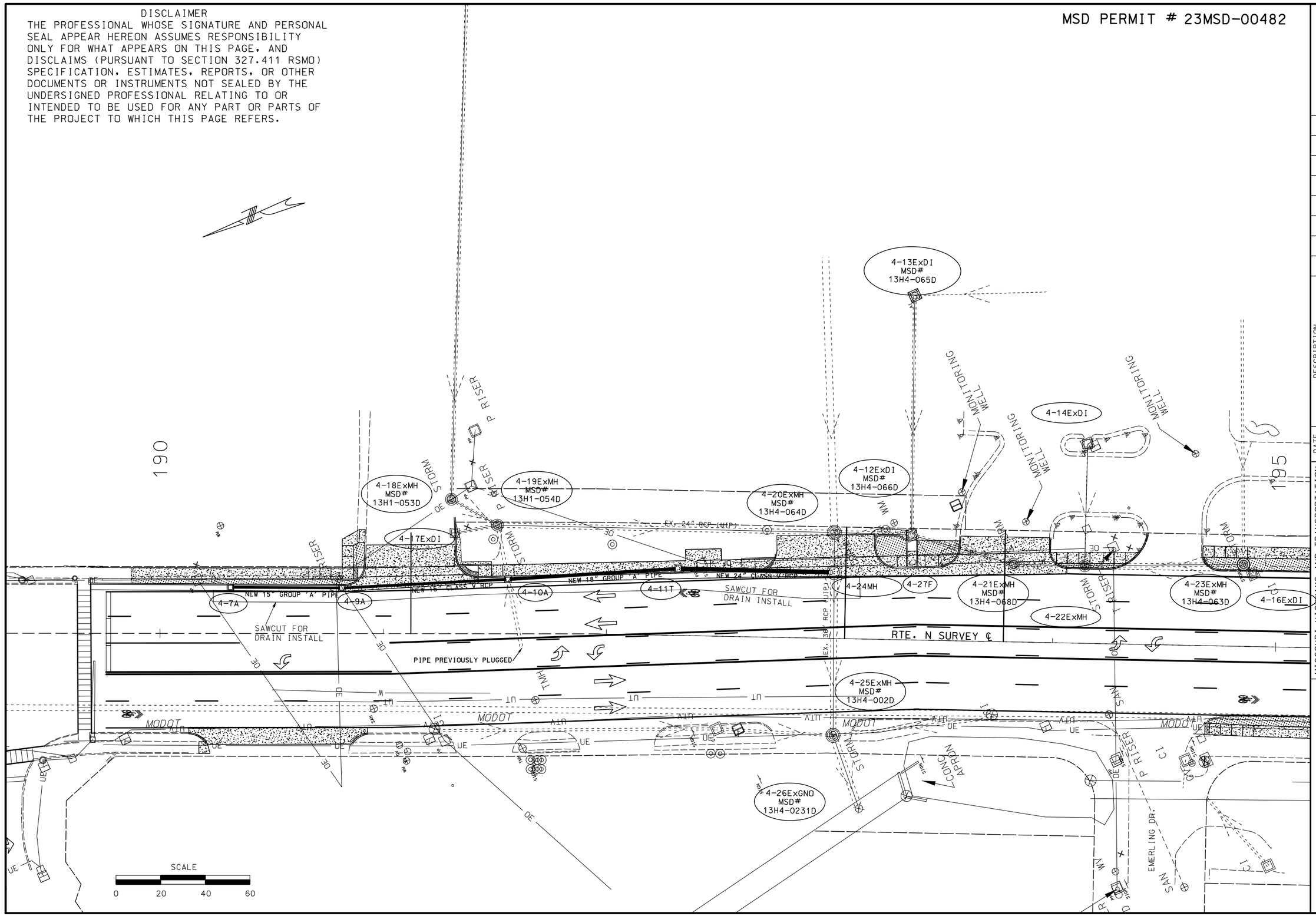
MSD PERMIT # 23MSD-00482



STATE OF MISSOURI
JAMIE F. RANA
NUMBER PE-2005001034
PROFESSIONAL ENGINEER
Jamie F. Rana
02/22/2024 1:35:59 PM
JAMIE F. RANA - CIVIL
MO-PE-2005001034

DATE PREPARED
2/22/2024

ROUTE	STATE
N	MO
DISTRICT	SHEET NO.
SL	211

COUNTY
ST. LOUIS

JOB NO.
J6S3599

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)

DRAINAGE PLANS

MSD PERMIT# 23MSD-00482

NOTE: CONTRACTOR SHALL LINEAR GRADE FROM START OF NEW RAMP PAVEMENT TO EXIST. INLET TO CATCH FLOW FROM NORTH CD ROAD INTO 2-4ExDI.

REPLACE ALT. TOP MH CONNECTION SEE SPECIAL SHEET FOR DETAILS.

3-1ExMH

UIP
2-4ExDI

EXIST. 21" RCP

EXIST. 12" RCP

2-3A

2-2MH

2-1A

NEW 12" GROUP 'A' PIPE

POT STA 3+54.61

RTE. N SURVEY ℄

201+83

DISCLAIMER

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SCALE
0 20 40 60

STATE OF MISSOURI
JAMIE F. RANA
NUMBER PE-2005001034
PROFESSIONAL ENGINEER
Jamie F. Rana
01/27/2024 3:08:56 PM
JAMIE F. RANA - CIVIL
MO-PE-2005001034

DATE PREPARED
1/25/2024

ROUTE	STATE
N	MO
DISTRICT	SHEET NO.
SL	212

COUNTY
ST. LOUIS

JOB NO.
J6S3599

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

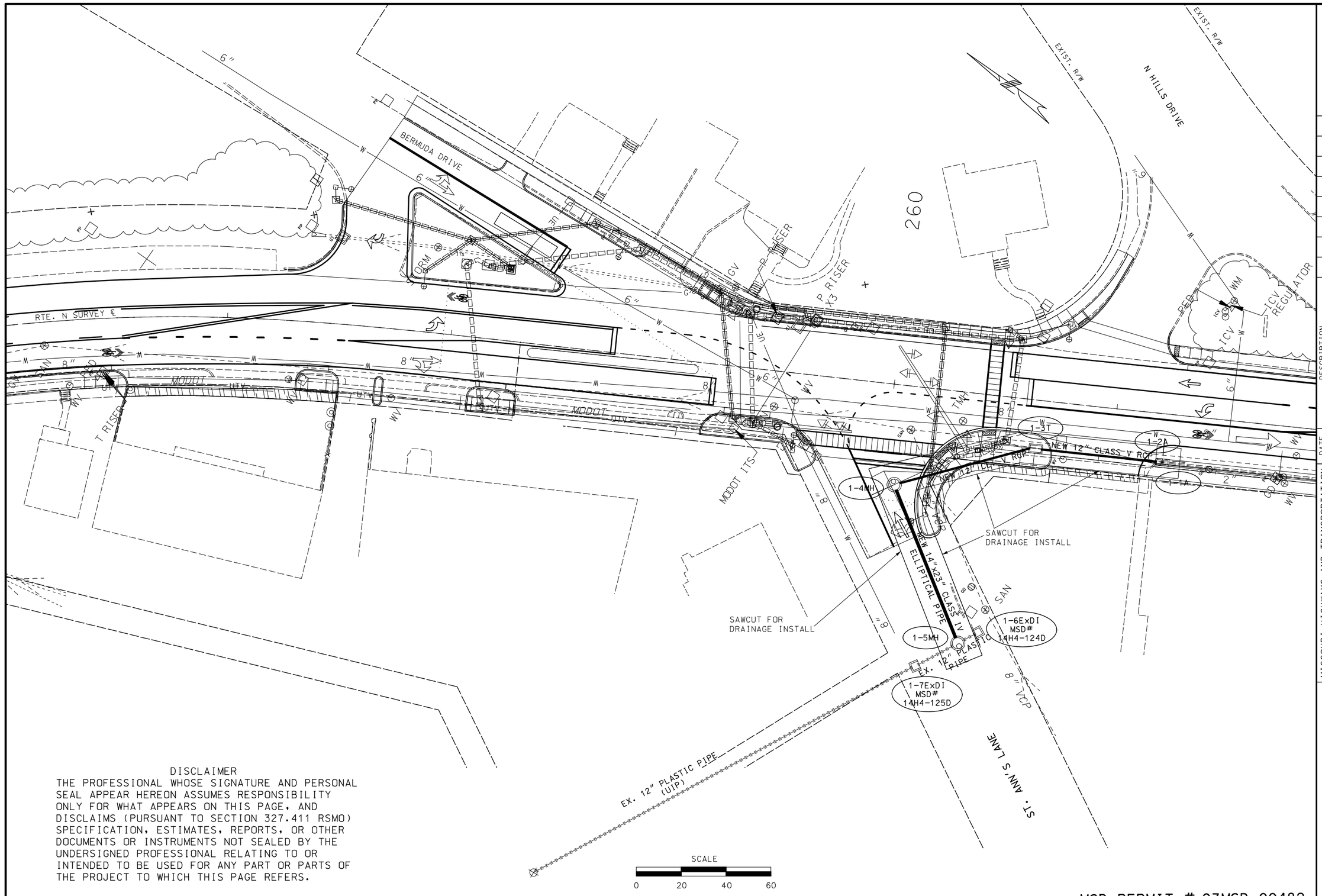
DESCRIPTION	DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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

DRAINAGE PLANS

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



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MSD PERMIT # 23MSD-00482

STATE OF MISSOURI
JAMIE F. RANA
NUMBER PE-2005001034
PROFESSIONAL ENGINEER
Jamie F. Rana
02/22/2024 1:35:22 PM
JAMIE F. RANA - CIVIL
MO-PE-2005001034

DATE PREPARED
2/22/2024

ROUTE	STATE
N	MO
DISTRICT	SHEET NO.
SL	213

COUNTY
ST. LOUIS

JOB NO.
J6S3599

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION	DATE

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

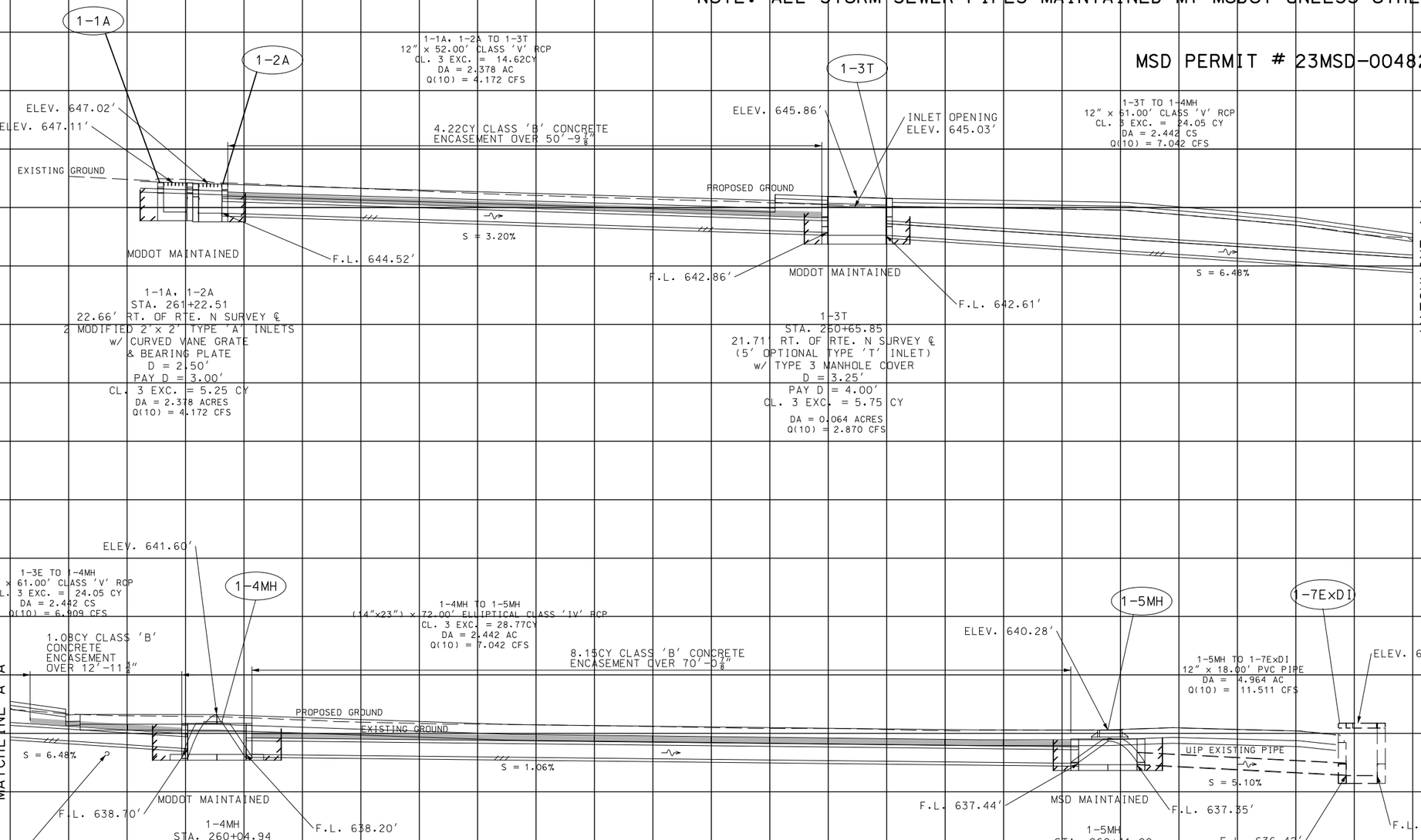
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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

DRAINAGE PLAN

NOTE: ALL STORM SEWER PIPES MAINTAINED MY MODOT UNLESS OTHERWISE NOTED

MSD PERMIT # 23MSD-00482



DISCLAIMER

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NOTE: STATIONS/OFFSETS/ELEVATIONS FOR GRATE INLETS SHOW AT FACE OF CURB.

NOTE: ALL RCP'S ARE SMOOTH WALL PIPES W/ n VALUE ESTIMATED @ 0.013

NOTE: ALL EXISTING PLASTIC PIPES ARE SMOOTH WALL PIPES W/ n VALUE ESTIMATED @ 0.012

5'

STATE OF MISSOURI
JAMIE F. RANA
NUMBER PE-2005001034
PROFESSIONAL ENGINEER
Jamie F. Rana
02/22/2024 1:32:58 PM
JAMIE F. RANA - CIVIL
MO-PE-2005001034

DATE PREPARED
2/22/2024

ROUTE	STATE
N	MO
DISTRICT	SHEET NO.
SL	214

COUNTY
ST. LOUIS

JOB NO.
J6S3599

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION	DATE

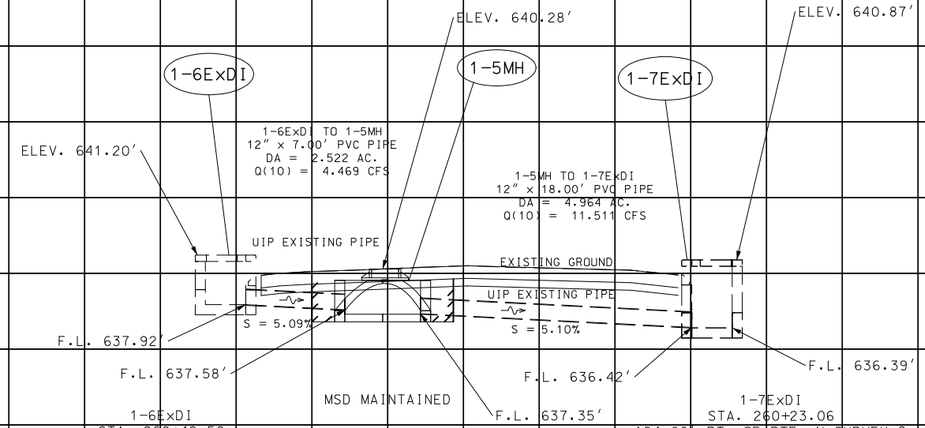
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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

ST. ANN'S LN.
CULVERT SECTIONS
SHEET 1 OF 2

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

NOTE: ALL STORM SEWER PIPES MAINTAINED MY MODOT UNLESS OTHERWISE NOTED



NOTE: CONTRACTOR TO CUT & REMOVE 12″ PIPE AS NECESSARY TO INSTALL NEW 1-5MH DRAINAGE STRUCTURE.

NOTE: ALL STATIONS/OFFSETS/ELEVATIONS FOR GRATE INLETS SHOW AT FACE OF CURB.

NOTE: ALL RCP'S ARE SMOOTH WALL PIPES W/ n VALUE ESTIMATED @ 0.013

NOTE: ALL EXISTING PLASTIC PIPES ARE SMOOTH WALL PIPES W/ n VALUE ESTIMATED @ 0.012

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5′

MSD PERMIT # 23MSD-00482

STATE OF MISSOURI
JAMIE F. RANA
NUMBER PE-2005001034
PROFESSIONAL ENGINEER
Jamie F. Rana
02/22/2024 1:32:23 PM
JAMIE F. RANA - CIVIL
MO-PE-2005001034

DATE PREPARED
2/22/2024

ROUTE	STATE
N	MO
DISTRICT	SHEET NO.
SL	215

COUNTY
ST. LOUIS

JOB NO.
J6S3599

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)

ST. ANN'S LN.
CULVERT SECTIONS
SHEET 2 OF 2

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

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MSD PERMIT# 23MSD-00482

NOTE: 3-1ExMH IS LABELED AS 18-6MH FROM AS-BUILTS FOR JOB J6I1220D.

NOTE: ALL STORM SEWER PIPES MAINTAINED BY MoDOT UNLESS OTHERWISE NOTED.

NOTE: ALL STATIONS/OFFSETS FOR GRATE INLETS SHOW AT FACE OF CURB.

3-1ExMH
STA. 198+61.7
59.9' LT. OF RTE. N SURVEY ℄
5' PRECAST CONC. MANHOLE
w/ TYPE 4 MANHOLE COVER
CL. 3 EXC. = 2 C.Y.

3-1ExMH
NO MSD#

NOTE: CONTRACTOR TO REBUILD 24" MAX. ALTERNATE MANHOLE CONNECTION TO MAIN DRAINAGE STRUCTURE - SEE SPECIAL SHEET FOR DETAILS.

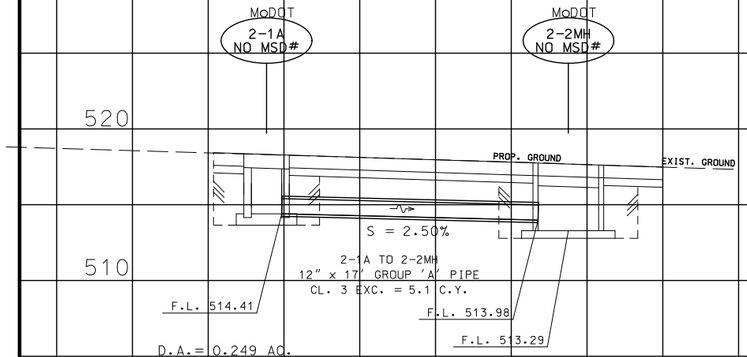
2-1A
STA. 202+46.4
48.7' LT. OF RTE. N SURVEY ℄
2'x4' PRECAST DROP INLET
TYPE 'A' INLET W/ CURVED VANE GRATE & BEARING PLATE
ACTUAL D = 3'
PAY D = 3'
CL. 3 EXC. = 7.8 C.Y.

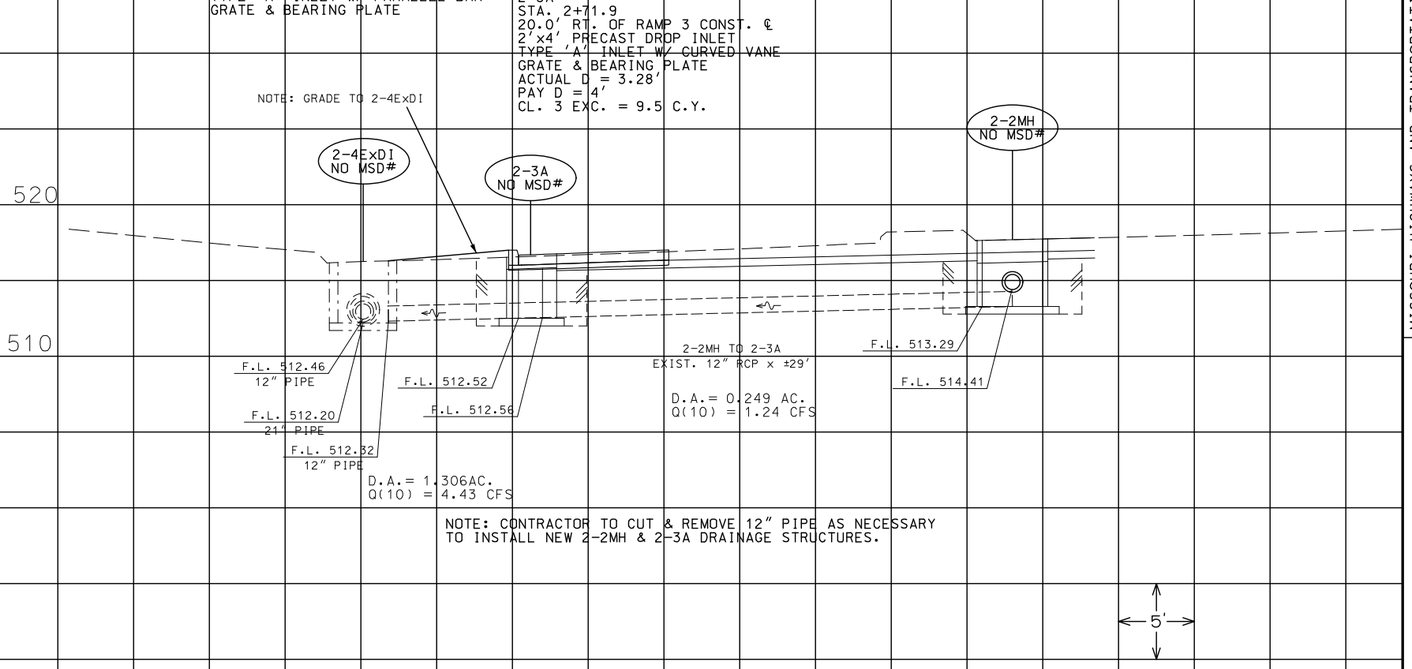
2-2MH
STA. 202+28.0
46.8' LT. OF RTE. N SURVEY ℄
48" PRECAST CONC. MANHOLE
w/ TYPE 1-A MANHOLE COVER
(USE LOCKING LID)
ACTUAL D = 3.56'
PAY D = 4'
CL. 3 EXC. = 11.1 C.Y.

NOTE: EXIST. PIPE COMES INTO INLET 2-3A AT SKEWED ANGLE & IS NOT CENTERED WHEN CONNECTED INTO WALL OF 2-3A.

2-4ExDI (UIP)
STA. 2+65.6
28.0' RT. OF RAMP 3 CONST. ℄
2'x4' PRECAST DROP INLET
TYPE 'A' INLET W/ PARALLEL BAR GRATE & BEARING PLATE

2-3A
STA. 2+71.9
20.0' RT. OF RAMP 3 CONST. ℄
2'x4' PRECAST DROP INLET
TYPE 'A' INLET W/ CURVED VANE GRATE & BEARING PLATE
ACTUAL D = 3.28'
PAY D = 4'
CL. 3 EXC. = 9.5 C.Y.





NOTE: CONTRACTOR TO CUT & REMOVE 12" PIPE AS NECESSARY TO INSTALL NEW 2-2MH & 2-3A DRAINAGE STRUCTURES.

NOTE: ALL GROUP 'A' PIPES ARE SMOOTH WALL PIPES W/ n VALUE ESTIMATED @ 0.013

STATE OF MISSOURI
JAMIE F. RANA
NUMBER PE-2005001034
PROFESSIONAL ENGINEER
Jami F. Rana
01/27/2024 3:07:00 PM
JAMIE F. RANA - CIVIL
MO-PE-2005001034

DATE PREPARED
1/25/2024

ROUTE	STATE
N	MO
DISTRICT	SHEET NO.
SL	216

COUNTY
ST. LOUIS

JOB NO.
J6S3599

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)

CULVERT SECTIONS
SYSTEMS 2 & 3

DISCLAIMER

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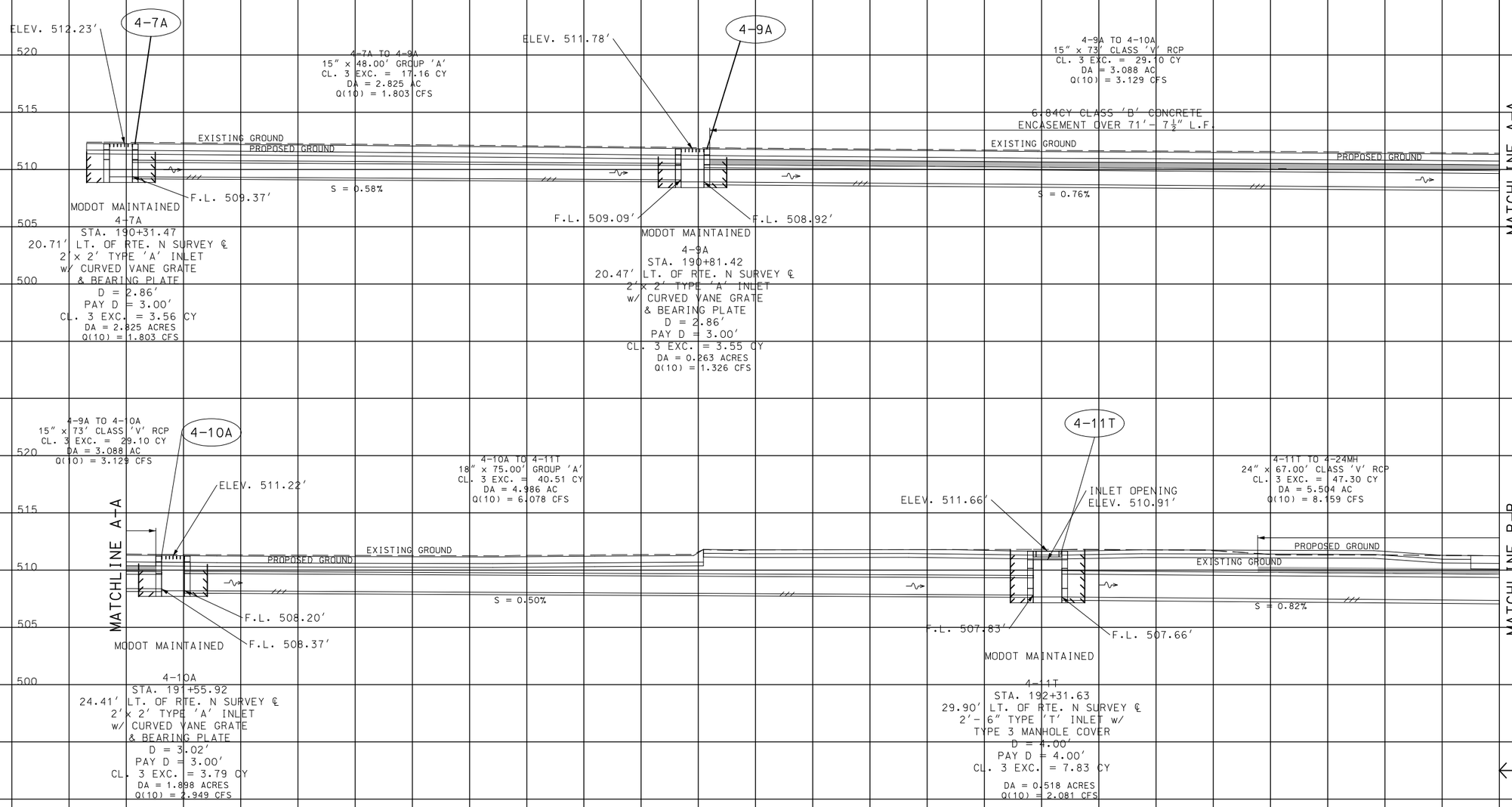
NOTE: ALL STORM SEWER PIPES MAINTAINED MY MODOT UNLESS OTHERWISE NOTED

NOTE: ALL RCP'S AND GROUP 'A' PIPES ARE SMOOTH WALL PIPES W/ n VALUE ESTIMATED @ 0.013

NOTE: STATIONS/OFFSETS FOR GRATE INLETS SHOW AT CENTER OF STRUCTURE.



MSD PERMIT # 23MSD-00482

STATE OF MISSOURI
JAMIE F. RANA
NUMBER PE-2005001034
PROFESSIONAL ENGINEER
Jamie F. Rana
02/22/2024 1:31:41 PM
JAMIE F. RANA - CIVIL
MO-PE-2005001034

DATE PREPARED
2/22/2024

ROUTE	STATE
N	MO
DISTRICT	SHEET NO.
SL	217

COUNTY
ST. LOUIS

JOB NO.
J6S3599

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)

EVANS AVE.
CULVERT SECTIONS

DISCLAIMER

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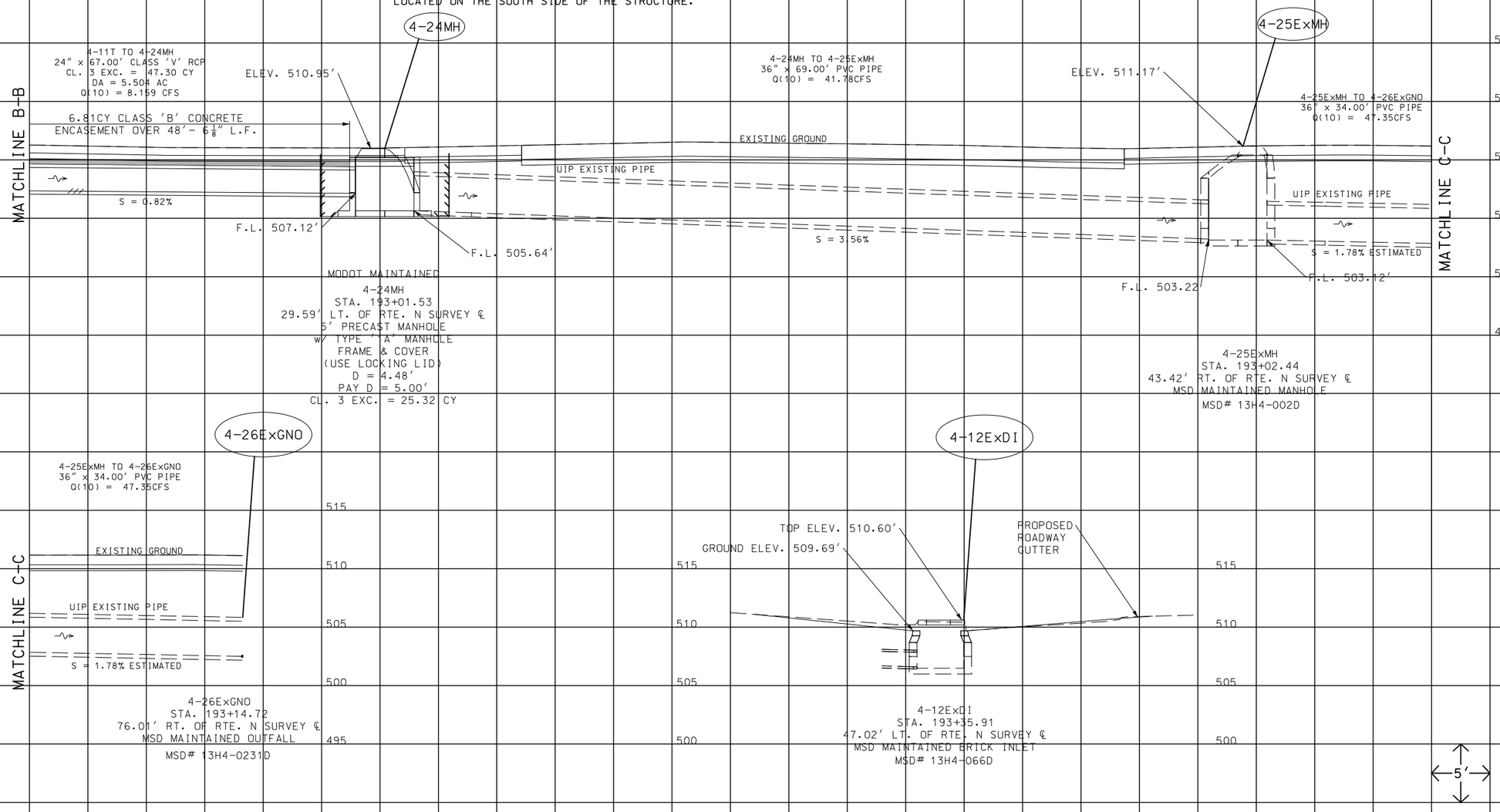
NOTE: ALL STORM SEWER PIPES MAINTAINED MY MODOT UNLESS OTHERWISE NOTED

NOTE: ALL RCP'S AND GROUP 'A' PIPES ARE SMOOTH WALL PIPES W/ n VALUE ESTIMATED @ 0.013

NOTE: STATIONS/OFFSETS FOR GRATE INLETS SHOW AT CENTER OF STRUCTURE.

NOTE: CONTRACTOR TO CUT & REMOVE 36" PIPE AS NECESSARY TO INSTALL NEW 4-24MH DRAINAGE STRUCTURE.

NOTE: MANHOLE FRAME, COVER, AND STEPS TO BE LOCATED ON THE SOUTH SIDE OF THE STRUCTURE.



MSD PERMIT # 23MSD-00482

STATE OF MISSOURI
JAMIE F. RANA
NUMBER PE-2005001034
PROFESSIONAL ENGINEER
Jami F. Rana
02/22/2024 1:31:13 PM
JAMIE F. RANA - CIVIL
MO-PE-2005001034

DATE PREPARED
2/22/2024

ROUTE	STATE
N	MO
DISTRICT	SHEET NO.
SL	218

COUNTY
ST. LOUIS

JOB NO.
J6S3599

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DATE	DESCRIPTION

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

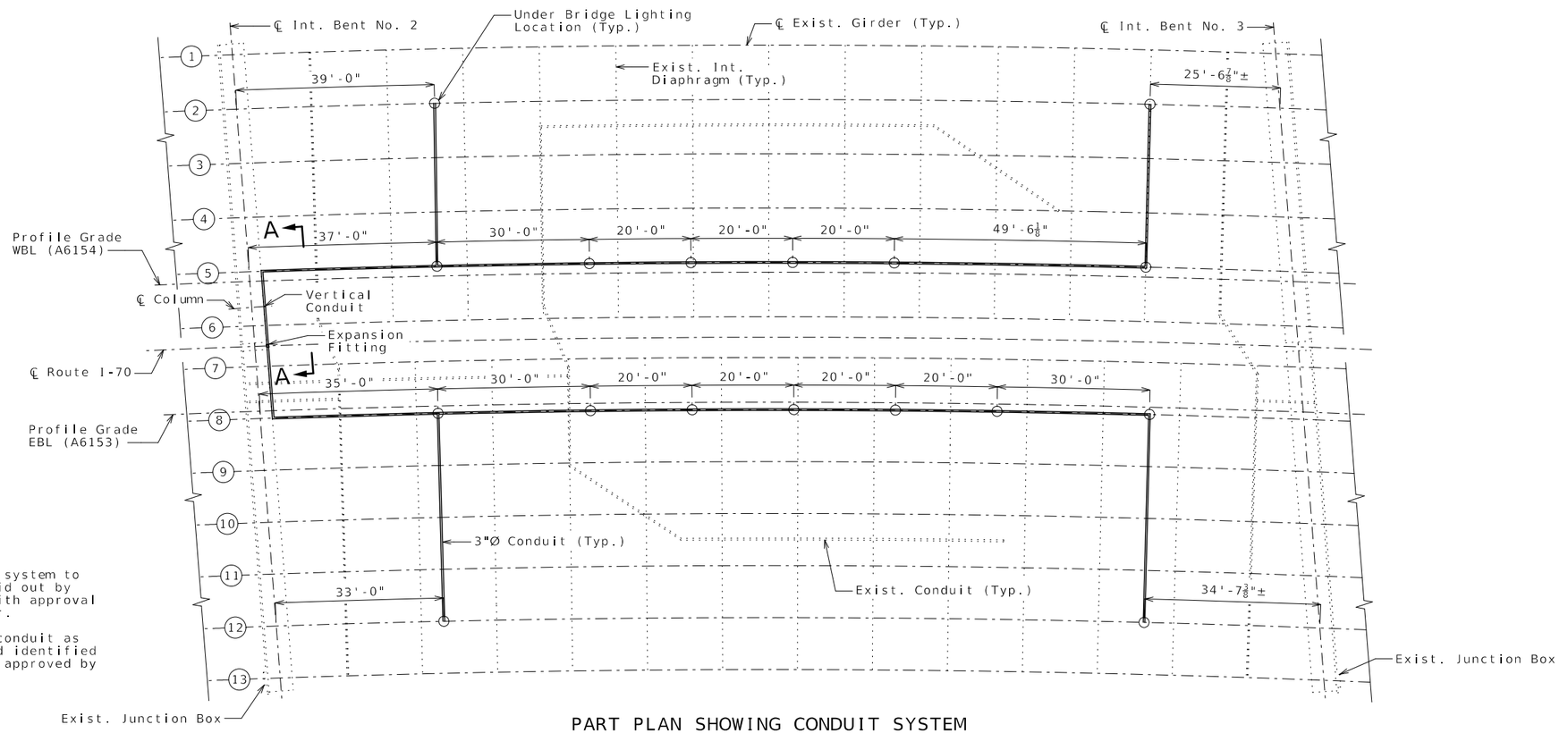
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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

EVANS AVE.
CULVERT SECTIONS

U.I.P. AND REHABILITATE EXISTING (97.77'-205.38'-97.77') CONTINUOUS COMPOSITE PLATE GIRDER SPANS (SKEW: VARIES)

SEC/SUR 14 TWP 46N RGE 6E



PART PLAN SHOWING CONDUIT SYSTEM

For conduit details not shown, see Sheet No. 2.

Under lighting spacing is radial.

Note:

Lighting conduit system to be designed & laid out by the contractor with approval from the engineer.

Repair existing conduit as required at field identified locations and as approved by the engineer.

General Notes:

Design Specifications:

2002 AASHTO LFD (17th Ed.) Standard Specifications
Bridge Deck Rating = 6

Miscellaneous:

Outline of existing work is indicated by light dashed lines. Heavy lines indicate new work.

Contractor shall verify all dimensions in field before ordering new material.

Traffic Handling:

Traffic to be maintained on structure during construction. See roadway plans for traffic control.

Estimated Quantities		
Item		Total
Conduit System on Structure	lump sum	1
Conduit System Repair	lump sum	1

REPAIRS TO BRIDGE: ROUTE I-70 EB OVER ROUTE N

ROUTE I-70 FROM ROUTE I-170 TO ROUTE U
ABOUT 1.3 MILES NORTHWEST OF ROUTE U
BEGINNING STATION 17+496.025± (Match Existing)

Detailed Nov. 2023
Checked Nov. 2023

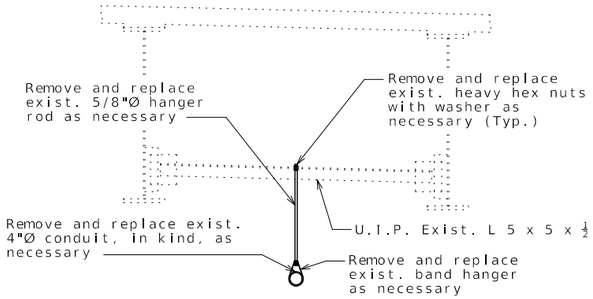
Note: This drawing is not to scale. Follow dimensions.

STATE OF MISSOURI
TRENTON B. CRAWFORD
NUMBER PE-2012018053
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

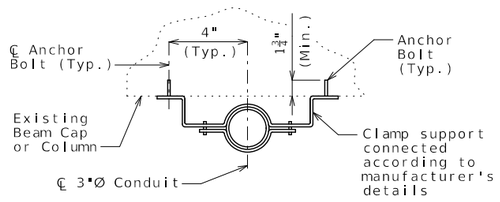
DATE PREPARED: 2/1/2024
ROUTE: I-70 | STATE: MO
DISTRICT: BR | SHEET NO.: 1
COUNTY: ST. LOUIS
JOB NO.: J6S3599
CONTRACT ID.:
PROJECT NO.:
BRIDGE NO.: A61532

DESCRIPTION | DATE

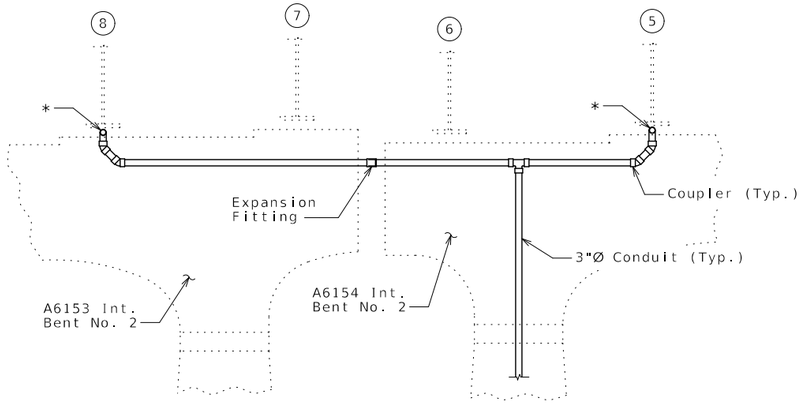
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)



PART ELEVATION SHOWING
CONDUIT SYSTEM REPAIR



PART PLAN SHOWING
CONDUIT ATTACHMENT
TO THE BEAM CAP
AND COLUMN



ELEVATION A-A

* Method of attachment to the girder shall not include drilling or welding to the existing girder.

Notes:

Cost of furnishing and placing anchor bolts for conduit clamps will be considered completely covered by the contract lump sum price for Conduit System on Structure.

All conduits shall be rigid nonmetallic schedule 40 heavy wall polyvinyl chloride (PVC). Each section of conduit shall bear the Underwriters Laboratories (UL) label.

All conduit clamps shall be commercially-available and approved by the engineer.

Anchor bolts and nuts shall be ASTM F1554 Grade 55. Anchor bolts, nuts and washers shall be galvanized in accordance with AASHTO M 232 (ASTM A153), Class C, or ASTM B695, Class 55.

Top of light standard supports shall be made horizontal.

For details of light standards, underdeck lighting, and wiring, see roadway plans.

Expansion fittings shall be placed as shown and set in accordance with the manufacturer's requirements. Additional expansion fittings beyond what is specified on the bridge plans shall be provided and placed in accordance with the conduit manufacturer's recommendations.

Weep holes shall be provided at low points or other critical locations to drain any moisture in the conduit system. Conduit shall be sloped to drain.

Conduits placed along beam cap and columns shall be secured to concrete with conduit clamps at about 5'-0" cts. Concrete anchors for clamps shall be non-drilling expansion type for 3/8" bolts and shall be in accordance with Federal Specification FF-S-325, Group II, Type 4, Class 1 and shall be galvanized in accordance with AASHTO M 232 (ASTM A153), Class C, ASTM B695 Class 55 or stainless steel. Minimum embedment in concrete shall be 1 3/4". The supplier shall furnish a manufacturer's certification that the concrete anchors meet the required material and galvanizing specifications.

Payment for furnishing and installing Conduit System, complete in place, will be considered completely covered by the contract lump sum price for Conduit System on Structure.

Payment for repairing and replacing existing conduit, complete in place, will be considered completely covered by the contract lump sum price for Conduit System Repair.

For Part Plan Showing Conduit System, see Sheet No. 1.

STATE OF MISSOURI
TRENTON B. CRAWFORD
NUMBER PE-2012018053
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED
2/1/2024

ROUTE	STATE
I-70	MO
DISTRICT	SHEET NO.
BR	2

COUNTY
ST. LOUIS

JOB NO.
J6S3599

CONTRACT ID.

PROJECT NO.

BRIDGE NO.
A61532

DESCRIPTION	DATE

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

Detailed Nov. 2023
Checked Nov. 2023

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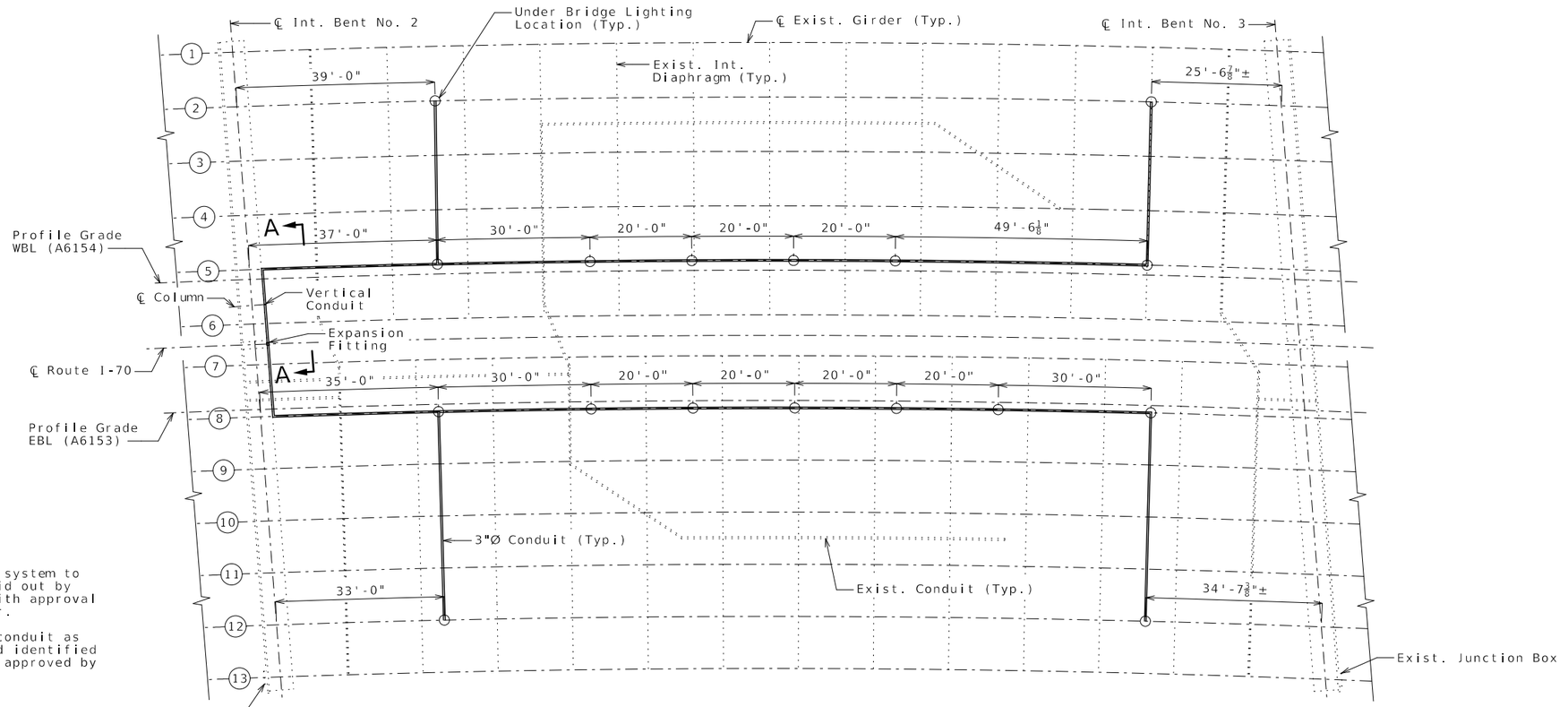
U.I.P. AND REHABILITATE EXISTING (97.77'-205.38'-97.77') CONTINUOUS COMPOSITE PLATE GIRDER SPANS (SKEW: VARIES)

SEC/SUR 14 TWP 46N RGE 6E



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PART PLAN SHOWING CONDUIT SYSTEM

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General Notes:

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Estimated Quantities		
Item		Total
Conduit System on Structure	lump sum	1
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REPAIRS TO BRIDGE: ROUTE I-70 WB OVER ROUTE N

ROUTE I-70 FROM ROUTE I-170 TO ROUTE U
ABOUT 1.3 MILES NORTHWEST OF ROUTE U
BEGINNING STATION 17+496.025± (Match Existing)

Detailed Nov. 2023
Checked Nov. 2023

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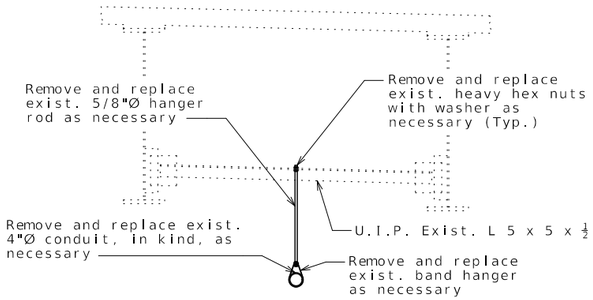
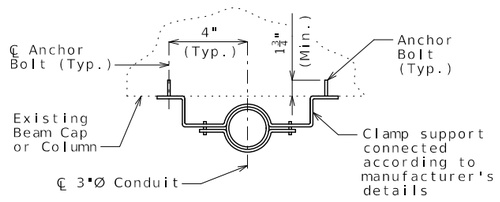
DATE PREPARED 2/1/2024
ROUTE I-70 | STATE MO
DISTRICT BR | SHEET NO. 1
COUNTY ST. LOUIS
JOB NO. J6S3599
CONTRACT ID.
PROJECT NO.
BRIDGE NO. A61542

DESCRIPTION | DATE

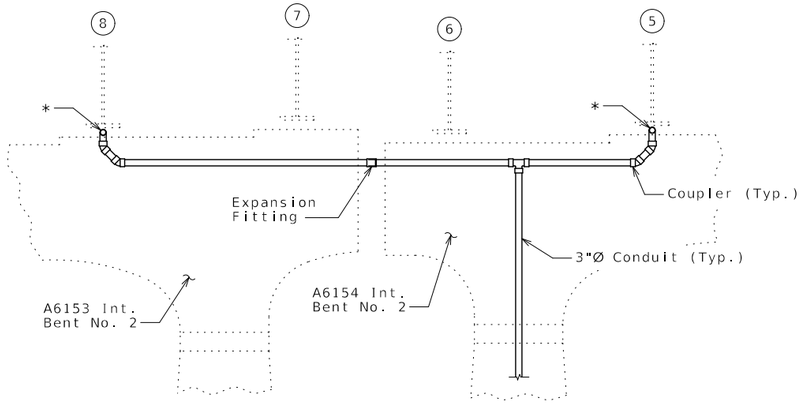
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)



PART ELEVATION SHOWING
CONDUIT SYSTEM REPAIR



PART PLAN SHOWING
CONDUIT ATTACHMENT
TO THE BEAM CAP
AND COLUMN



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For Part Plan Showing Conduit System, see Sheet No. 1.

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PROFESSIONAL ENGINEER
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DATE PREPARED: 2/1/2024

ROUTE	STATE
I-70	MO
DISTRICT	SHEET NO.
BR	2

COUNTY: ST. LOUIS
JOB NO.: J6S3599
CONTRACT ID.:
PROJECT NO.:
BRIDGE NO.: A61542

DESCRIPTION	DATE

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

Detailed Nov. 2023
Checked Nov. 2023

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