

DESIGN DESIGNATION

ROUTE O

A.A.D.T. - 2023 = 72

V = 20 M.P.H.

FUNCTIONAL CLASSIFICATION - MINOR COLLECTOR

ROUTE 149

A.A.D.T. - 2023 = 272

V = 30 M.P.H.

FUNCTIONAL CLASSIFICATION - MAJOR COLLECTOR

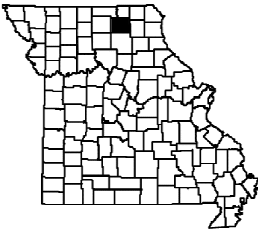
BUS 63

A.A.D.T. = 10,225

V = 35 M.P.H.

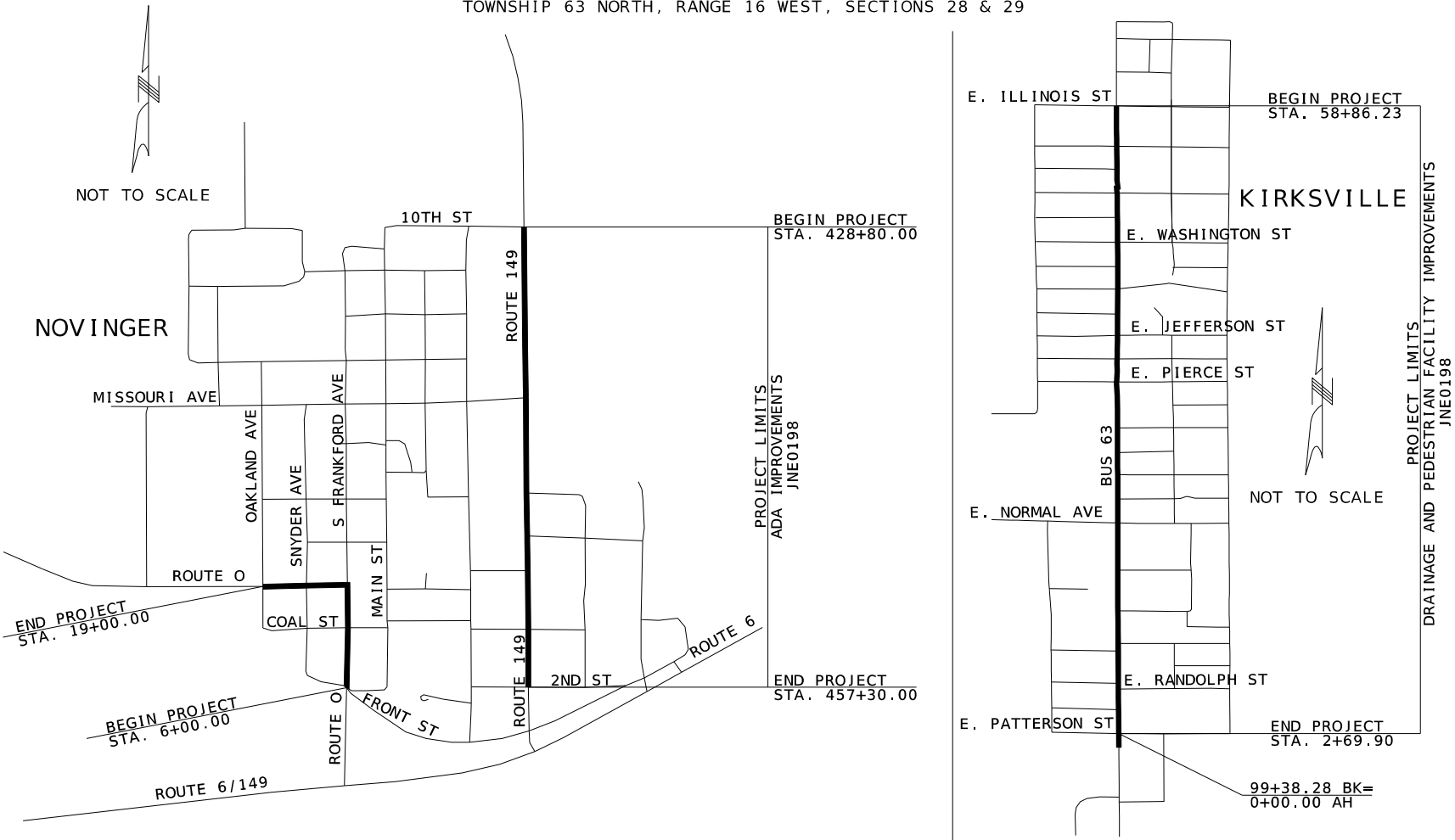
FUNCTIONAL CLASSIFICATION - MINOR ARTERIAL

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
PLANS FOR PROPOSED
STATE HIGHWAY
ROUTE O/ROUTE 149
AND BUS 63
IN NOVINGER AND KIRKSVILLE
ADAIR COUNTY



KEY MAP
SHOWING LOCATION OF ADAIR COUNTY

TOWNSHIP 63 NORTH, RANGE 16 WEST, SECTIONS 28 & 29



AMERICANS WITH DISABILITIES ACT (ADA) IMPROVEMENTS

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

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DATE PREPARED 11/20/2025	
ROUTE VAR.	STATE MO
DISTRICT NE	SHEET NO. 1
COUNTY ADAIR	
JOB NO. JNE0198	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

DESCRIPTION	DATE

LENGTH OF PROJECT

ROUTE O	
BEGINNING OF PROJECT	STA. 6+00.00
END OF PROJECT	STA. 19+00.00
APPARENT LENGTH ROUTE O	1,300 FEET

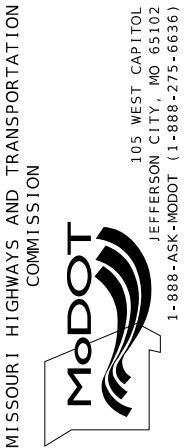
EQUATIONS AND EXCEPTIONS:	
13+91.60 BK = 14+00.00 AH	8.40 FEET
TOTAL CORRECTIONS	8.40 FEET
NET LENGTH	1,291.60 FEET

ROUTE 149	
BEGINNING OF PROJECT	STA. 428+40.00
END OF PROJECT	STA. 457+30.00
NET LENGTH	2,910 FEET

BUS 63	
BEGINNING OF PROJECT	STA. 58+86.23
END OF PROJECT	STA. 2+69.90
APPARENT LENGTH	-5,616.33 FEET
EQUATIONS AND EXCEPTIONS:	
EQ 99+38.28 BK = 0+00.00 AH	9,938.28 FEET

TOTAL PROJECT CORRECTIONS	9,946.68 FEET
NET LENGTH OF PROJECT	8,523.55 FEET
STATE LENGTH	1.619 MILES

FOR INFORMATION ONLY	
ESTIMATED DISTURBED ACRES ROUTE O	0.70 ACRES
ESTIMATED DISTURBED ACRES ROUTE 149	0.80 ACRES
ESTIMATED DISTURBED ACRES BUS 63	0.08 ACRES



Kimley»Horn
KIMLEY-HORN AND ASSOCIATES, INC.
805 PENNSYLVANIA AVENUE, SUITE 150
KANSAS CITY, MO 64105
PHONE: 816-652-0350
WWW.KIMLEY-HORN.COM

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

Technical drawing illustrating the dimensions and components for a handrail system for steps, specifically for the case "WITHOUT BALUSTERS".

Dimensions:

- POST SPACING:** 5'-0" MAX.
- PAY LENGTH - HANDRAIL FOR STEPS:** Indicated by a diagonal dimension line.
- TOP RAIL:** The uppermost rail.
- TOE RAIL:** The lower rail.
- CENTER MIDDLE RAIL VERTICALLY BETWEEN TOP AND TOE RAILS:** A vertical dimension line indicates the spacing between the top and toe rails.
- ONE TREAD DEPTH MIN:** The minimum vertical clearance between the toe rail and the step tread.
- 2" MIN.:** The minimum clearance between the toe rail and the step nosing.
- 4" MIN.:** The minimum clearance between the top rail and the step nosing.
- 34" MIN. 38" MAX.:** The maximum height of the top rail above the step nosing.
- 34" MIN. 38" MAX.:** The maximum height of the toe rail above the step nosing.
- 2'-5" MIN.:** The minimum horizontal distance from the sidewalk to the start of the handrail.
- 2'-5" MAX.:** The maximum horizontal distance from the sidewalk to the end of the handrail.
- 1'-0" MIN.:** The minimum horizontal distance between the top rail and the toe rail.
- 4" MIN.:** The minimum horizontal distance between the top rail and the toe rail.
- 2'-5" MIN.:** The minimum horizontal distance from the sidewalk to the start of the handrail.
- 2'-5" MAX.:** The maximum horizontal distance from the sidewalk to the end of the handrail.
- SIDEWALK:** The ground surface adjacent to the steps.

NOT TO SCALE

MODIFIED S-CURB
 >12" TALL (2'-6" MAX.)

1 1/2" MIN. COVER ON ALL REINFORCING

8"

6"

MAX.

H

D

#4 REINFORCING BARS AT 12" MAX. SPACING (NO DIRECT PAY)

* ROUND TO 3/4" RADIUS
 ** ROUND TO 1/4" RADIUS
 H = VARIES (2'-6" MAX. (30"))
 D = BURY DEPTH (FORMING NOT REQUIRED)
 THIS SHALL BE 18 INCHES OR "H"
 WHICHEVER IS GREATER.
 VERTICAL REINFORCING LENGTHS VARY AS NEEDED
 DEPTH MAY BE REDUCED IF KEYED 6" IN ROCK

6"

54"

3:1 (MAX.)

DITCH BOTTOM

6"

10"

8" CLASS A UNPERFORATED SMOOTH WALL P.V.C. UNDERDRAIN PIPE (STD. SPEC. SEC. 1013.2.1.5)

CONCRETE HEADWALL

6"

LIMIT OF PAYMENT FOR YARD DRAIN *

A

54" ALONG SLOPE

10"

2'

SECTION A-A

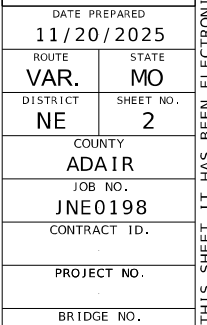
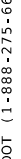
*NOTE: THE COST FOR SCREENS, CONCRETE HEADWALLS, CONCRETE PADS, TAR PAPER, GALV. BOLTS & NUTS, AND CONNECTIONS ARE INCLUDED IN THE COST OF UNDERDRAIN PIPE.

THE WIDTH FOR MEASURING CLASS 3 EXCAVATION FOR 8" UNDERDRAIN PIPE SHALL BE 18"

Diagram illustrating the layout of a safety railing system, showing dimensions and components:

- Overall Length:** 20'-0" (1 UNIT = 20'-0").
- Dimensions:**
 - 6" MAX. (End offset)
 - 2' (End offset)
 - 8' (Main section length)
 - 8' (Main section length)
 - 2' (End offset)
 - 1' (End offset)
 - 4" MAX. (Railing height)
- Labels:**
 - TOP RAIL
 - TOE RAIL
 - CENTER MIDDLE RAIL VERTICALLY BETWEEN TOP AND TOE RAILS
 - A (Marker location)
 - PROTECTION ZONE

TYPICAL SECTIONS
SHEET 2 OF 2

[illegible]

MISSOURI HIGHWAYS AND TRANSPORTATION
COMMISSION

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

Kimley»Horn
KIMLEY-HORN AND ASSOCIATES, INC.
805 PENNSYLVANIA AVENUE, SUITE 150
KANSAS CITY, MO 64105
PHONE : 816-652-0330
WWW.KIMLEY-HORN.COM

REMOVAL OF IMPROVEMENTS									
SHEET NO.	ROUTE	STA	STA	LOC	ROADWAY	LF	SY	EACH	DESCRIPTIONS
4	ROUTE O	6+25		LT	ROUTE O			1	SIGN
4	ROUTE O	6+03	8+15	LT	ROUTE O	215			SAWCUT
4	ROUTE O	6+66	8+15	LT	ROUTE O		57.0		4" SIDEWALK
5	ROUTE O	11+82	12+15	RT	ROUTE O		11.0		4" SIDEWALK
5	ROUTE O	12+26	12+62	RT	ROUTE O		32.0		4" SIDEWALK
5	ROUTE O	12+62	12+66	RT	ROUTE O	20.0			HANDRAIL
5	ROUTE O	12+62	12+68	RT	ROUTE O	24.0			HANDRAIL
5	ROUTE O	12+68		RT	ROUTE O			1	STAIRS
5	ROUTE O	12+73	12+81	RT	ROUTE O		15.0		4" SIDEWALK
5	ROUTE O	12+80	14+90	RT	ROUTE O		97.0		4" SIDEWALK
5	ROUTE O	13+38	13+65	RT	ROUTE O	27.0			12" PIPE
5	ROUTE O	13+67	14+85	LT	ROUTE O		46.0		4" SIDEWALK
5	ROUTE O	14+63	14+95	LT	ROUTE O	32.0			FENCE
5	ROUTE O	14+72		RT	ROUTE O			1	MAILBOX
5	ROUTE O	14+73		RT	ROUTE O			1	MAILBOX
5	ROUTE O	14+76		RT	ROUTE O			1	MAILBOX
5	ROUTE O	14+77		RT	ROUTE O			1	MAILBOX
5	ROUTE O	14+80		RT	ROUTE O			1	MAILBOX
5	ROUTE O	14+92	15+32	RT	ROUTE O	40.0			18" PIPE
5	ROUTE O	14+99	15+31	LT	ROUTE O	32.0			12" PIPE
5	ROUTE O	15+27		RT	ROUTE O			1	SIGN
5-6	ROUTE O	15+30	17+36	LT	ROUTE O		1043.0		4" SIDEWALK
5	ROUTE O	15+31		RT	ROUTE O			1	SIGN
5-6	ROUTE O	15+31	16+96	RT	ROUTE O		65.0		4" SIDEWALK
5	ROUTE O	15+88		RT	ROUTE O			1	SIGN
5-6	ROUTE O	16+31	16+51	LT	ROUTE O	20.0			12" PIPE
5-6	ROUTE O	16+33	16+53	RT	ROUTE O	20.0			15" PIPE
6	ROUTE O	17+56	18+04	RT	ROUTE O	48.0			36" PIPE
6	ROUTE O	17+58	18+11	LT	ROUTE O	53.0			12" PIPE
7	ROUTE 149	428+93	433+45	RT	ROUTE 149		197.0		4" SIDEWALK
8	ROUTE 149	433+88	436+02	RT	ROUTE 149		93.0		4" SIDEWALK
8	ROUTE 149	436+22	439+29	RT	ROUTE 149		131.0		4" SIDEWALK
9	ROUTE 149	439+76	441+27	RT	ROUTE 149		71.0		4" SIDEWALK
9	ROUTE 149	440+61		LT	ROUTE 149			1	POLE/METER/SPAN WIRE
9	ROUTE 149	440+75	440+96	LT	ROUTE 149	22.0			15" PIPE
9	ROUTE 149	440+88	440+88	LT	ROUTE 149	22.0			HANDRAIL
9	ROUTE 149	440+91	440+91	LT	ROUTE 149	17.0			STAIRS
9	ROUTE 149	440+93	440+93	LT	ROUTE 149	21.0			HANDRAIL
9	ROUTE 149	441+03		LT	ROUTE 149			1	SIGN
9	ROUTE 149	441+67	444+20	RT	ROUTE 149		101.0		4" SIDEWALK
10	ROUTE 149	446+57	447+97	RT	ROUTE 149		54.0		4" SIDEWALK
10	ROUTE 149	447+18		RT	ROUTE 149			1	SIGN
10	ROUTE 149	447+96		RT	ROUTE 149			1	MAILBOX
10	ROUTE 149	448+20	448+45	RT	ROUTE 149		8.0		4" SIDEWALK
11	ROUTE 149	450+77	450+80	RT	ROUTE 149	23.0			STAIRS
11	ROUTE 149	451+85	451+87	RT	ROUTE 149	18.0			STAIRS
11	ROUTE 149	453+23	453+60	LT	ROUTE 149		14.0		4" SIDEWALK
11-12	ROUTE 149	455+20	457+25	RT	ROUTE 149		101.0		4" SIDEWALK
12	ROUTE 149	456+86	456+97	RT	ROUTE 149	11.0			18" PIPE
12	ROUTE 149	456+86	456+97	LT	ROUTE 149	11.0			12" PIPE
12	ROUTE 149	457+21	457+21	LT	ROUTE 149		5.0		4" SIDEWALK
12	ROUTE 149	456+86		RT	ROUTE 149			1	MAILBOX
12	ROUTE 149	456+88		RT	ROUTE 149			1	MAILBOX
12	ROUTE 149	456+87	456+94	RT	ROUTE 149	7.0			STAIRS
	BUS 63	61+06	61+22	RT	BUS 63		8.6		SIDEWALK
	BUS 63	64+02	64-16	RT	BUS 63		7.1		SIDEWALK
	BUS 63	65+46	65+61	RT	BUS 63		7.5		SIDEWALK
	BUS 63	65+67	65+62	LT	BUS 63		9.3		SIDEWALK
	BUS 63	66+22	66+37	LT	BUS 63		7.4		SIDEWALK
	BUS 63	67+01	67+16	RT	BUS 63		8.9		SIDEWALK
	BUS 63	78+05	78+20	LT	BUS 63		7.4		SIDEWALK
	BUS 63	78+06	78+21	RT	BUS 63		9.5		SIDEWALK
	BUS 63	78+97	79+18	RT	BUS 63		11.1		SIDEWALK
	BUS 63	79+00	79+18	LT	BUS 63		8.7		SIDEWALK
	BUS 63	80+12	80+26	RT	BUS 63		10.9		SIDEWALK
	BUS 63	80+47	80+66	RT	BUS 63		10.3		SIDEWALK
	BUS 63	80+89	81+05	RT	BUS 63		9.0		SIDEWALK
	BUS 63	81+70	81+88	LT	BUS 63		10.9		SIDEWALK
	BUS 63	82+08	82+21	RT	BUS 63		8.6		SIDEWALK
	BUS 63	82+25	82+40	LT	BUS 63		8.5		SIDEWALK
	BUS 63	82+58	82+77	RT	BUS 63		9.5		SIDEWALK
	BUS 63	83+17	83+33	RT	BUS 63		7.3		SIDEWALK

REMOVAL OF IMPROVEMENTS (CONTINUED)									
SHEET NO.	ROUTE	STA	STA	LOC	ROADWAY	LF	SY	EACH	DESCRIPTIONS
	BUS 63	83+46	83+63	LT	BUS 63		8.7		SIDEWALK
	BUS 63	84+04	84+21	LT	BUS 63		9.9		SIDEWALK
	BUS 63	84+06	84+21	RT	BUS 63		8.2		SIDEWALK
	BUS 63	84+56	84+71	RT	BUS 63		8.2		SIDEWALK
	BUS 63	85+42	85+59	RT	BUS 63		9.5		SIDEWALK
	BUS 63	86+45	86+54	LT	BUS 63		5.9		SIDEWALK
	BUS 63	86+45	86+58	RT	BUS 63		5.8		SIDEWALK
	BUS 63	87+08	87+23	RT	BUS 63		7.2		SIDEWALK
	BUS 63	88+94	89+07	RT	BUS 63		6.3		SIDEWALK
	BUS 63	90+37	90+55	RT	BUS 63		8.2		SIDEWALK
	BUS 63	91+50	91+62	RT	BUS 63		5.8		SIDEWALK
	BUS 63	91+87	92+03	LT	BUS 63		11.7		SIDEWALK
	BUS 63	92+02	92+68	RT	BUS 63		7.5		SIDEWALK
	BUS 63	93+20	93+31	LT	BUS 63		8.0		SIDEWALK
	BUS 63	96+63	96+68	LT	BUS 63		34.2		SIDEWALK
	BUS 63	1+95	2+10	LT	BUS 63		8.2		SIDEWALK
	BUS 63	-	-	RT	BUS 63	60			CURB AND GUTTER
	BUS 63	-	-	RT	BUS 63		31.87		PAVEMENT
SUBTOTAL						743.0	2486.7	16	
TOTAL						1 LUMP SUM			

MISC. LINEAR GRADING FOR ADA FACILITIES					
SHEET NO.	ROUTE	STA.	STA.	LOC.	LINEAR GRADING FOR ADA FACILITIES (STA)
4	ROUTE O	6+53.53	8+24.98	LT	1.7
5	ROUTE O	11+80.02	12+67.95	RT	1.6
5	ROUTE O	12+72.33	15+03.01	RT	2.3
5	ROUTE O	13+76.29	15+05.94	LT	1.3
5-6	ROUTE O	15+24.30	17+67.80	LT	2.4
5-6	ROUTE O	15+22.38	17+67.47	RT	2.5
7-9	ROUTE 149	428+90.05	439+41.61	RT	10.5
9	ROUTE 149	440+41.79	440+93.93	LT	0.5
9-10	ROUTE 149	439+64.72	447+98.28	RT	8.3
12	ROUTE 149	456+88.33	457+26.34	LT	0.4
12	ROUTE 149	456+86.88	457+25.57	RT	0.4
PAY TOTAL					32.0

CURB AND GUTTER						
SHEET NO.	ROUTE	STA.	STA.	LOC.	TYPE B CURB AND GUTTER (LF)	MISC. CONCRETE CURB AND GUTTER, TYPE B (MODIFIED) (LF)
	ROUTE O	6+03.05	8+15.07	LT	231	
	BUS 63	-	-	RT		60
PAY TOTALS					231	60

LINEAR GRADING CLASS 1						
SHEET NO.	ROUTE	STA.	STA.	LOC.	LINEAR GRADING GRADING CLASS 1 (STA)	REMARKS
4	ROUTE O	12+78.71	14+24.75	RT	1.46	GRADE DITCH TO DRAIN
5	ROUTE O	14+24.75	18+96.19	LT&RT	18.86	GRADE DITCH TO DRAIN
7-9	ROUTE 149	440+39.61	440+74.61	LT	0.35	GRADE DITCH TO DRAIN
9	ROUTE 149	456+73.16	457+24.34	LT&RT	1.02	GRADE DITCH TO DRAIN
9	ROUTE 149	457+24.34	457+32.67	LT	0.06	GRADE DITCH TO DRAIN
PAY TOTAL					21.80	

SUMMARY OF QUANTITIES						
SHEET 1 OF 6						

CONCRETE SIDEWALK AND CURB RAMP										
SHEET NO.	ROUTE	STA	STA	LOC	MISC. REINFORCED CONCRETE SIDEWALK 4"	MISC. REINFORCED CONCRETE SIDEWALK 8"	CONCRETE CURB RAMP	TRUNCATED DOMES	CONCRETE CURB (6 IN. HEIGHT AND UNDER) TYPE S	CONCRETE CURB (OVER 6 IN. HEIGHT) TYPE S
					S.Y.	S.Y.	S.Y.	S.F.	L.F.	L.F.
4	ROUTE O	6+54	8+25	LT	97.1		9.6	14		
5	ROUTE O	11+80	12+67	RT	96.8		9.5	10	24	42
5	ROUTE O	12+72	12+93	RT	33.4		8.7	10		
5	ROUTE O	12+93	15+02	RT	112.6		7.0	10		
5	ROUTE O	13+41	13+64	RT		7.2				
5	ROUTE O	13+76	15+05	LT	62.2		6.2	10		
5	ROUTE O	15+02	15+30	RT			5.9	10		
5	ROUTE O	15+05	15+32	LT			6.0	10		
5-6	ROUTE O	15+30	17+67	RT	127.3		12.2	10		
5-6	ROUTE O	15+32	17+68	LT	126.0		11.4	10		
5-6	ROUTE O	16+32	16+50	LT		8.8				
5-6	ROUTE O	16+35	16+52	RT		8.2				
5-6	ROUTE O	16+93	17+14	LT		10.5				
7	ROUTE 149	428+90	435+97	RT	400.1		8.4	10	35	
7	ROUTE 149	432+80	433+16	RT		20.0				
7	ROUTE 149	433+49	433+97	RT		10.2				
8	ROUTE 149	435+95	436+22	RT		8.4				
8	ROUTE 149	436+90	438+50	RT	179.9		11.4	10	160	
9	ROUTE 149	440+42	440+87	LT	65.0				186	
9	ROUTE 149	439+65	440+72	RT	49.1		11.3	10		
9	ROUTE 149	440+72	447+98	RT	404.9		10.8	12		
9	ROUTE 149	440+87	440+93	LT	3.6		7.6	12		
9	ROUTE 149	442+35	442+53	RT		5.5				
9	ROUTE 149	443+05	443+18	RT		6.7				
9-10	ROUTE 149	444+20	444+39	RT		10.4				
12	ROUTE 149	456+87	457+26	RT	27.4		10.7	10		
12	ROUTE 149	456+89	457+26	LT	18.5		10.3	10		
	BUS 63	61+06	61+22	RT	8.6					
	BUS 63	64+02	64-16	RT	7.1					
	BUS 63	65+46	65+61	RT	7.5					
	BUS 63	65+67	65+62	LT	9.3					
	BUS 63	66+22	66+37	LT	7.4					
	BUS 63	67+01	67+16	RT	8.9					
	BUS 63	78+05	78+20	LT	7.4					
	BUS 63	78+06	78+21	RT	9.5					
	BUS 63	78+97	79+18	RT	11.1					
	BUS 63	79+00	79+18	LT	8.7					
	BUS 63	80+12	80+26	RT	10.9					
	BUS 63	80+47	80+66	RT	10.3					
	BUS 63	80+89	81+05	RT	9.0					
	BUS 63	81+70	81+88	LT	10.9					
	BUS 63	82+08	82+21	RT	8.6					
	BUS 63	82+25	82+40	LT	8.5					
	BUS 63	82+58	82+77	RT	9.5					
	BUS 63	83+17	83+33	RT	7.3					
	BUS 63	83+46	83+63	LT	8.7					
	BUS 63	84+04	84+21	LT	9.9					
	BUS 63	84+06	84+21	RT	8.2					
	BUS 63	84+56	84+71	RT	8.2					
	BUS 63	85+42	85+59	RT	9.5					
	BUS 63	86+45	86+54	LT	5.9					
	BUS 63	86+45	86+58	RT	5.8					
	BUS 63	87+08	87+23	RT	7.2					
	BUS 63	88+94	89+07	RT	6.3					
	BUS 63	90+37	90+55	RT	8.2					
	BUS 63	91+50	91+62	RT	5.8					
	BUS 63	91+87	92+03	LT	11.7					
	BUS 63	92+02	92+68	RT	7.5					
	BUS 63	93+20	93+31	LT	8.0					
	BUS 63	96+63	96+68	LT	34.2					
	BUS 63	1+95	2+10	LT	8.2					
		PAY TOTAL			2117.7	95.9	147.0	168.0	405.0	42.0

PERMANENT PAVEMENT MARKING					
SHEET NO.	ROUTE	STA	STA	PREFORMED THERMOPLASTIC PAVEMENT MAKING 24 IN WHITE	REMARKS
				(LF)	
9	ROUTE 149	440+87	440+93	30	MIDBLOCK CROSSING
12	ROUTE 149	456+88	456+94	30	MIDBLOCK CROSSING
PAY TOTAL				60	

CONCRETE STAIRS						
SHEET NO.	ROUTE	STA	STA	LOC	CLASS B-1	REINFORCING
					CONCRETE	STEEL
					C. Y.	LB
9	ROUTE 149	440+87.47	440+93.46	LT	3.0	147.0
12	ROUTE 149	456+86.88	456+93.89	RT	1.4	67.0
				PAY TOTAL	4.4	210

MOBILIZATION	
1	LUMP SUM

CONTRACTOR FURNISHED SURVEYING AND STAKING
1 LUMP SUM

1 LUMP SUM

MISC. LUMP SUM TEMPORARY TRAFFIC CONTROL
1 LUMP SUM

MISC. SEEDING AND MULCH
1 LUMP SUM

CONCRETE MEDIAN
40 SY

FLASHING BEACON (SOLAR) OVER SCHOOL CROSSING SIGN
2 EACH

SUMMARY OF QUANTITIES
SHEET 2 OF 6



DATE PREPARED	
12/18/2025	
ROUTE	STATE
VAR.	MO
DISTRICT	SHEET NO.
NE	3

COUNTY	ADAIR
JOB NO.	JNE0198
CONTRACT ID.	

PROJECT NO.

BRIDGE NO.

[illegible]

MISSOURI HIGHWAYS AND TRANSPORTATION
COMMISSION

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

Kimley»»Horn
KIMLEY-HORN AND ASSOCIATES, INC.
805 PENNSYLVANIA AVENUE, SUITE 150
KANSAS CITY, MO 64105
PHONE: 816-652-0350
WWW.KIMLEY-HORN.COM

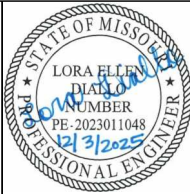
PAVEMENT, PAVED APPROACHES, & ENTRANCES								
SHEET NO.	ROUTE	STA	STA	LOC.	PAVED APPROACH 8 IN (SY)	TYPE 1 AGGREGATE 4 IN (SY)	GRAVEL A CRUSHED B STONE (SY)	REMARKS
4	ROUTE O	6+03	6+74	LT	86.4	86.4		
5	ROUTE O	12+11	12+29	RT	18.3	18.3		PAVED APPROACH
5	ROUTE O	12+53	12+80	RT	168.0	168.0		
5	ROUTE O	12+59	12+67	RT	43.3	43.3		PAVED APPROACH
5	ROUTE O	13+41	13+64	RT			21.2	GRAVEL APPROACH
5	ROUTE O	14+87	15+39	LT	55.2	55.2		PAVED APPROACH
5	ROUTE O	14+88	15+37	RT	48.7	48.7		PAVED APPROACH
5	ROUTE O	16+31	16+50	LT			22.5	GRAVEL APPROACH
5	ROUTE O	16+35	16+52	RT			19.7	GRAVEL APPROACH
6	ROUTE O	16+93	17+14	LT			24.7	GRAVEL APPROACH
6	ROUTE O	17+67	18+02	RT			40.7	GRAVEL APPROACH
6	ROUTE O	17+75	18+01	LT			22.0	GRAVEL APPROACH
6	ROUTE 149	428+51	429+10	RT	67.7	67.7		
7	ROUTE 149	433+49	433+97	RT			13.7	GRAVEL APPROACH
7	ROUTE 149	435+95	436+22	RT			30.0	GRAVEL APPROACH
8	ROUTE 149	439+27	439+80	RT	58.7	58.7	5.5	PAVED APPROACH
8	ROUTE 149	442+35	442+53	RT			16.2	GRAVEL APPROACH
8	ROUTE 149	443+05	443+18	RT			8.9	GRAVEL APPROACH
8	ROUTE 149	444+20	444+39	RT			12.8	GRAVEL APPROACH
9	ROUTE 149	447+88	448+30	RT	41.0	41.0		PAVED APPROACH
TOTAL					587.3	587.3	238.0	
PAY TOTAL					587.3	587.0	238.0	

SIDEWALK HAND-RAILING WITHOUT BALUSTERS						
SHEET NO.	ROUTE	STA	STA	LOC	LENGTH	REMARKS
					L.F.	
5	ROUTE O	12+61	12+65	RT	20	WITH SIDEWALK
5	ROUTE O	12+63	12+68	RT	24	WITH SIDEWALK
9	ROUTE 149	440+42	440+88	LT	186	WITH SIDEWALK
9	ROUTE 149	440+88	440+88	LT	17	WITH STAIRS
9	ROUTE 149	440+94	440+94	LT	17	WITH STAIRS
12	ROUTE 149	456+87	456+87	RT	7	WITH STAIRS
12	ROUTE 149	456+94	456+94	RT	7	WITH STAIRS
PAY TOTAL					278.0	

TEMPORARY EROSION CONTROL									
SHEET NO.	ROUTE	STA	STA	LOC	SILT FENCE	ROCK DITCH CHECK	ALTERNATE DITCH CHECK	CURB INLET CHECK	SEDIMENT REMOVAL
					L.F.	L.F.	L.F.	EACH	C.Y.
4-6	ROUTE O	6+00.00	19+00.00	LT & RT	82.0	60.0	351.0		45.0
7-12	ROUTE 149	428+00.00	457+30.00	LT & RT	850.0	84.0	585.0		81.0
	BUS 63	1+95	96+68	LT & RT				35.0	
PAY TOTAL					932.0	144.0	936.0	35.0	126.0
NOTE: SEDIMENT REMOVAL IS BASED ON 1 CY PER DITCH CHECK AND 1 CY PER 100' OF SILT FENCE									

DRAINAGE														
SHEET NO.	ROUTE	STA	STA	LOC	8 IN YARD DRAIN GROUP C	12 IN PIPE GROUP C	15 IN PIPE GROUP C	18 IN PIPE GROUP C	36 IN PIPE GROUP C	PRECAST CONCRETE DROP INLET 5 FT X 3 FT (FT)	CLASS 3 EXCAVATION (CY)	FURNISHING TYPE 2 ROCK DITCH LINER (CY)	PLACING TYPE 2 ROCK DITCH LINER (CY)	REMARKS
					(LF)	(LF)	(LF)	(LF)	(LF)	(FT)	(CY)	(CY)	(CY)	
5	ROUTE O	13+17	13+18	RT	7						7			
5	ROUTE O	13+38	13+65	RT		26					21			
5	ROUTE O	14+92	14+97	RT		10					8			
5	ROUTE O	14+92	15+32	RT				40			38			
5	ROUTE O	14+99	15+31	LT		32					26			
5	ROUTE O	16+31	16+51	LT		20					16			
5	ROUTE O	16+33	16+53	RT			20				18			
6	ROUTE O	16+88	16+92	LT	13						9			
6	ROUTE O	16+94	17+13	LT		20					16			
6	ROUTE O	17+56	18+04	RT					48		68			
6	ROUTE O	17+58	18+12	LT		54					43			
9	ROUTE 149	440+75	440+96	LT			22				19			
9	ROUTE 149	440+83	440+87	LT								2	2	
10	ROUTE 149	447+97	448+71	RT			75				65			
12	ROUTE 149	456+86	456+97	RT				11			11			
12	ROUTE 149	456+87	456+97	LT		10					8			
14	BUS. 63	96+63	96+68	LT		30					24			
14	BUS. 63	96+63	96+68	LT						3				
PAY TOTAL					20	202	117	51	48	3	397	2	2	

SUMMARY OF QUANTITIES
SHEET 3 OF 6



DATE PREPARED 12/3/2025	
ROUTE VAR.	STATE MO
DISTRICT NE	SHEET NO. 3
COUNTY ADAIR	
JOB NO. JNE0198	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

DESCRIPTION	DATE								

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION



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



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SIGNS					CONCRETE FOOTINGS EMBEDDED	STRUCTURAL STEEL POSTS*					PIPE POSTS*					BACKING BARS**				U- CHANNEL POST	PERFORATED SQUARE STEEL TUBE												EFFECTIVE: 07-01-2024		REMARKS AND OTHER REQUIRED ITEMS																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																									
902 SIGNAL SIGNS TABULATED ON D-37A SHEET						2- INCH POST					2.5- INCH POST							BREAK - AWAY ASSEMBLY																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
SIGN NO.	SIGN SIZE	STATION OR LOG MILE	HORIZ CLEAR IF NOT STD	LOCATION		ITEM NO. 9031010 CY	POST DES NO.	POST NO.1 LF	POST NO.2 LF	POST NO.3 LF	LBS PER FT	TOTAL ITEM NO. 9031210 LBS	PIPE SIZE IN	POST NO.1 LF	POST NO.2 LF	LBS PER FT	TOTAL ITEM NO. 9031220 LBS		2" X 3/8" BARS AT 2.55 LBS/FT				ITEM NO. 9031250A LF	POST NO.1 LF	POST NO.2 LF	TOTAL ITEM NO. 9031270A LF	DRIVEN 12 GA. ITEM NO. 9031271A EACH	DRIVEN 7 GA. ITEM NO. 9031273A EACH	CONCRETE 7 GA. ITEM NO. 9031274 EACH	POST NO.1 LF	POST NO.2 LF	TOTAL ITEM NO. 9031280 LF	2.25" INSERT (6 FT) ITEM NO. 9031272A EACH	ANCHORS		ITEM NO. 9031281A EACH	ITEM NO. 9031285 EACH	ITEM NO. 9031241 EACH																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																						
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1	ASSBLY	440+54		ROUTE 149 RT																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								

ROUND PIPE POST AND FOOTING DATA TABLE						
NOM. SIZE	WEIGHT		STUB LENGTH	FOOTING		CONCRETE
(IN.)	LBS/FT	LBS/IN		DIA.	DEPTH	
2½	5.79	0.48	4'- 3½"	12"	4-6'	0.13
4	10.79	0.90	5'- 3¾"	18"	5-6'	0.36

STRUCTURAL STEEL POST AND FOOTING DATA TABLE													
POST					FOOTING								
POST DES. NO.	NOM. SIZE	WEIGHT		STUB LENGTH	DIA.	LEVEL DEPTH	GROUND C.Y.	6:1 GRADE		4:1 GRADE		3:1 OR 2:1 GRADE	
		LBS/FT	LBS/IN					DEPTH C.Y.	DEPTH C.Y.	DEPTH C.Y.	DEPTH C.Y.		
1	W6	9.0	0.75	3'-0"	15*	3'-0"	0.14	3'-0"	0.16	3'-0"	0.17		
2	W6	15.0	1.25	4'-0"	24*	4'-0"	0.47	4'-2"	0.50	4'-3"	0.54		
3	W8	18.0	1.50	4'-6"	28*	4'-6"	0.71	4'-8"	0.73	4'-9"	0.78		
4	W10	22.0	1.83	5'-0"	36*	5'-0"	1.31	5'-2"	1.36	5'-3"	1.45		
5	W10	26.0	2.17	5'-0"	36*	5'-0"	1.31	5'-3"	1.37	5'-5"	1.43	5'-9"	1.52
6	W12	35.0	2.92	5'-6"	36*	5'-6"	1.44	5'-9"	1.52	5'-11"	1.56	6'-3"	1.65

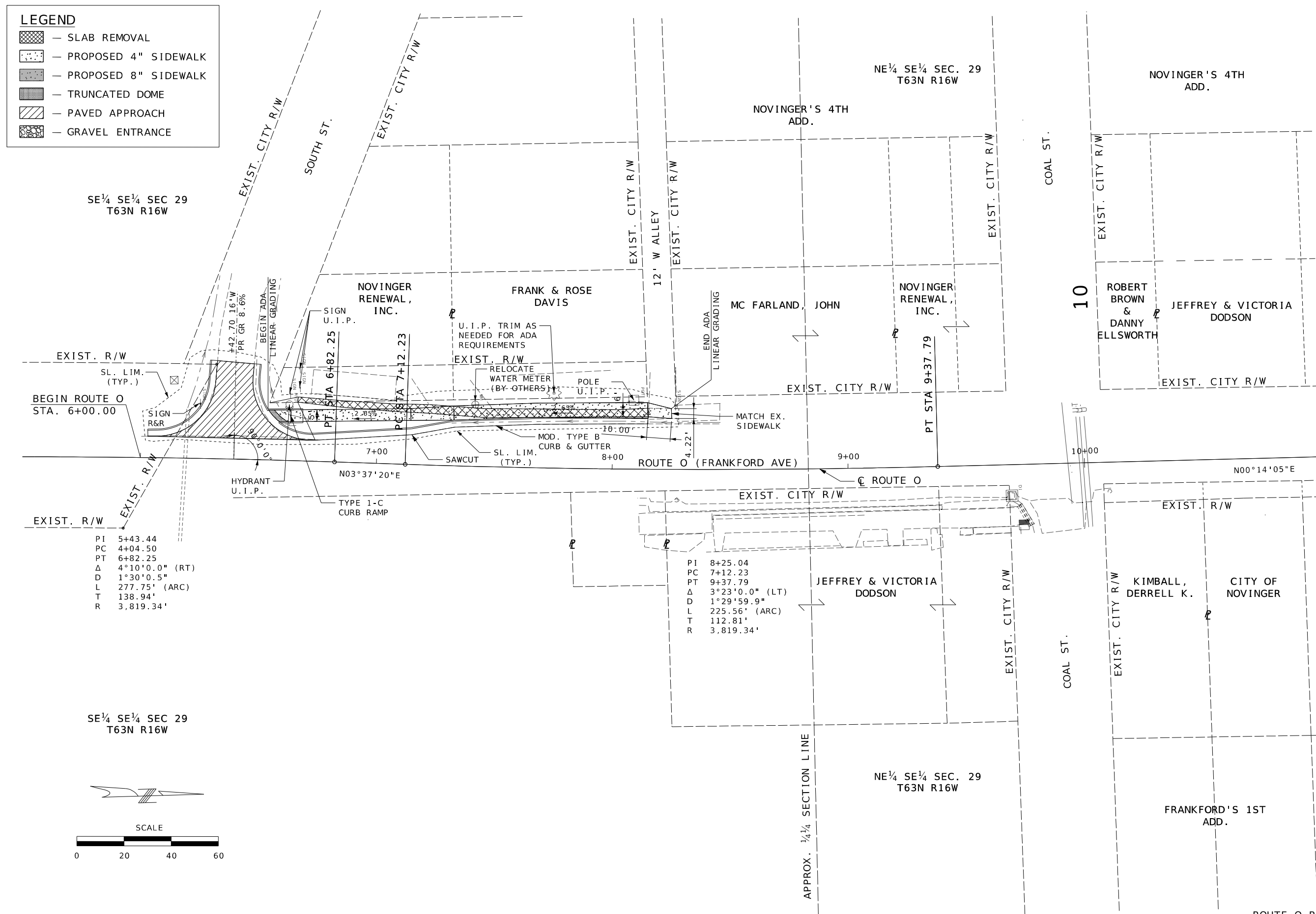
SIGN	SIZE	AREA	QTY	TOTAL	QTY	TOTAL	SIGN		SIGN	SIZE	AREA	QTY	TOTAL	QTY	TOTAL	SIGN		ITEM	TOTAL	EFFECTIVE: 07-01-2025	
IN.	SQ. FT.	EACH	SQ. FT.	EACH	SQ. FT.	NO.	DESCRIPTION	SIGN	IN.	SQ. FT.	EACH	SQ. FT.	EACH	SQ. FT.	NO.	DESCRIPTION	NUMBER	QTY	DESCRIPTION		
WARNING SIGNS									GUIDE SIGNS												
WO1-1L	48X48	16.00						TURN (SYMBOL LEFT)	E05-1	36X48	12.00						GORE EXIT	6122008		IMPACT ATTENUATOR 40 MPH (SAND BARRELS)	
WO1-1R	48X48	16.00						TURN (SYMBOL RIGHT)	E05-2	48X36	12.00						EXIT OPEN	6122009		IMPACT ATTENUATOR 45 MPH (SAND BARRELS)	
WO1-2L	48X48	16.00						CURVE (SYMBOL LEFT)	E05-2a	48X36	12.00						EXIT CLOSED	6122010		IMPACT ATTENUATOR 50 MPH (SAND BARRELS)	
WO1-2R	48X48	16.00						CURVE (SYMBOL RIGHT)	GO20-1	60X24	10.00						ROAD WORK NEXT XX MILES	6122012		IMPACT ATTENUATOR 55 MPH (SAND BARRELS)	
WO1-3L	48X48	16.00						REVERSE TURN (SYMBOL LEFT)	GO20-2	48X24	8.00	2	16.00				END ROAD WORK	6122014		IMPACT ATTENUATOR 60 MPH (SAND BARRELS)	
WO1-3R	48X48	16.00						REVERSE TURN (SYMBOL RIGHT)	GO20-4	36X18	4.50						PILOT CAR FOLLOW ME	6122017		IMPACT ATTENUATOR 65 MPH (SAND BARRELS)	
WO1-4L	48X48	16.00						REVERSE CURVE (SYMBOL LEFT)	GO20-4a	42X30	8.75						PILOT CAR IN USE WAIT & FOLLOW	6122019		IMPACT ATTENUATOR 70 MPH (SAND BARRELS)	
WO1-4R	48X48	16.00						REVERSE CURVE (SYMBOL RIGHT)	GO20-4a	18X12	1.50						PILOT CAR IN USE WAIT & FOLLOW	6122020		REPLACEMENT SAND BARREL	
WO1-4bL	48X48	16.00						DOUBLE ARROW REVERSE CURVE (SYMBOL LEFT)	GO20-5aP	36X24	6.00	2	16.00				WORK ZONE (PLAQUE)	6122030		IMPACT ATTENUATOR (RELOCATION)	
WO1-4bR	48X48	16.00						DOUBLE ARROW REVERSE CURVE (SYMBOL RIGHT)	MO4-8a	24X18	3.00						END DETOUR	6122040		WORK ZONE CRASH CUSHION (NARROW)	
WO1-4cL	48X48	16.00						TRIPLE ARROW REVERSE CURVE (SYMBOL LEFT)	MO4-9L	48X36	12.00						DETOUR (LEFT)	6122041		WORK ZONE CRASH CUSHION (RELOCATION)	
WO1-4cR	48X48	16.00						TRIPLE ARROW REVERSE CURVE (SYMBOL RIGHT)	MO4-9R	48X36	12.00						DETOUR (RIGHT)	6123001		TRUCK MOUNTED ATTENUATOR (TMA)	
WO1-6	60X30	12.50						HORIZONTAL ARROW (SYMBOL)	MO4-9P	48X12	4.00						STREET NAME (PLAQUE)	6161012		BUOYS (BOATS KEEP OUT)	
WO1-6a	72X36	18.00						HORIZ. ARROW (SYMBOL ON PERMANENT BARRICADE)	MO4-10L	48X18	6.00						DETOUR ARROW (LEFT)	6161013		BUOYS (NO WAKE)	
WO1-7	60X30	12.50						DOUBLE HEAD HORIZONTAL ARROW (SYMBOL)	MO4-10R	48X18	6.00						DETOUR ARROW (RIGHT)	6161014		SPECIAL SIGN ASSEMBLY (BOATS KEEP OUT)	
WO1-7a	72X36	18.00						DOUBLE HEAD HORIZ. ARROW (SYMBOL ON PERM. BARR.)	REGULATORY SIGNS									6161020		CHANNELIZER (DRUM-LIKE)	
WO1-8	18X24	3.00						CHEVRON (SYMBOL)	R1-1	48X48	13.25						STOP	6161022		CHANNELIZER (CONE)	
WO1-8a	30X36	7.50						CHEVRON (SYMBOL FOR DIVIDED HIGHWAYS)	R1-2	48TRI.	6.93						YIELD	6161025	250*	CHANNELIZER (TRIM-LINE)	
WO3-1	48X48	16.00						STOP AHEAD (SYMBOL)	R1-2a	36X36	9.00						TO ONCOMING TRAFFIC (PLAQUE)	6161026		CHANNELIZER (VERTICAL PANEL)	
WO3-2	48X48	16.00						YIELD AHEAD (SYMBOL)	R1-3P	30X12	2.50						ALL WAY (PLAQUE)	6161030	10*	TYPE 3 MOVEABLE BARRICADE	
WO3-3	48X48	16.00						SIGNAL AHEAD (SYMBOL)	R2-1	36X48	12.00	4	48.00				SPEED LIMIT XX	6161033		DIRECTION INDICATOR BARRICADE	
WO3-4	48X48	16.00						BE PREPARED TO STOP	R3-1	48X48	16.00						NO RIGHT TURN (SYMBOL)	6161040		FLASHING ARROW PANEL	
WO3-5	48X48	16.00						SPEED LIMIT AHEAD	R3-2	48X48	16.00						NO LEFT TURN (SYMBOL)	6161047		TYPE 3 OBJECT MARKER	
WO4-1L	48X48	16.00						MERGE (SYMBOL FROM LEFT)	R3-3	36X36	9.00						NO TURNS	6161055		SEQUENTIAL FLASHING WARNING LIGHT	
WO4-1R	48X48	16.00						MERGE (SYMBOL FROM RIGHT)	R3-4	48X48	16.00						NO U-TURN (SYMBOL)	6161070		TUBULAR MARKER	
WO4-1aL	48X48	16.00						MERGE (LEFT)	R3-7L	30X30	6.25						LEFT LANE MUST TURN LEFT	6161095		RADAR SPEED ADVISORY SYSTEM	
WO4-1aR	48X48	16.00						MERGE (RIGHT)	R3-7R	30X30	6.25						RIGHT LANE MUST TURN RIGHT	6161096		CHANGEABLE MESSAGE SIGN, COMMISSION FURNISHED/RETAINED	
WO5-1	48X48	16.00						ROAD/BRIDGE/RAMP NARROWS	R4-1	36X48	12.00						DO NOT PASS	6161098A		CHANGEABLE MESSAGE SIGN WITHOUT COMM. INTERFACE, CONTRACTOR FURNISHED/RETAINED	
WO5-3	48X48	16.00						ONE LANE BRIDGE	R4-2	36X48	12.00						PASS WITH CARE	6161099		CHANGEABLE MESSAGE SIGN WITH COMM. INTERFACE, CONTRACTOR FURNISHED/RETAINED	
WO5-5	48X48	16.00						NARROW LANES	R4-7a	36X48	12.00	2	24.00				KEEP RIGHT (HORIZONTAL ARROW)	6162000A		WORK ZONE TRAFFIC SIGNAL SYSTEM	
WO6-1	48X48	16.00						DIVIDED HIGHWAY (SYMBOL)	R4-8a	36X48	12.00						KEEP LEFT (HORIZONTAL ARROW)	6162002		TEMPORARY LONG-TERM RUMBLE STRIPS	
WO6-2	48X48	16.00						DIVIDED HIGHWAY END (SYMBOL)	R5-1	30X30	6.25						DO NOT ENTER	6169902	6*	TEMPORARY TRAFFIC BARRIER	
WO6-3	48X48	16.00						TWO WAY TRAFFIC (SYMBOL)	R5-1a	36X24	6.00						WRONG WAY	6173700B		ADA COMPLIANT MOVABLE BARRICADE	
WO7-3a	30X24	5.00						NEXT XX MILES (PLAQUE)	R6-1L	54X18	6.75						ONE WAY ARROW (LEFT)	6173706		TEMP. TRAFFIC BARRIER ANCHORED, CONTRACTOR FURNISHED/RETAINED	
WO8-1	48X48	16.00						BUMP	R6-1R	54X18	6.75						ONE WAY ARROW (RIGHT)	6174000A		TEMP. TRAFFIC BARRIER HEIGHT TRANSITION, CONTRACTOR FURNISHED/RETAINED	
WO8-2	48X48	16.00						DIP	R6-2L	24X30	5.00						ONE WAY (LEFT)	6175010A		RELOCATING TEMPORARY TRAFFIC BARRIER	
WO8-3	48X48	16.00						PAVEMENT ENDS	R6-2R	24X30	5.00						ONE WAY (RIGHT)	6175011B		RELOCATING TEMP. TRAFFIC BARRIER ANCHORED	
WO8-4	48X48	16.00						SOFT SHOULDER	R9-9	24X12	2.00	4	8.00				ROAD CLOSED	6175013		RELOCATING TEMP. TRAFFIC BARRIER STIFFNESS	
WO8-5	48X48	16.00						SLIPPERY WHEN WET (SYMBOL)	R11-3a	60X30	12.50						ROAD CLOSED XX MILES AHEAD	6175020A		RELOCATING TEMP. TRAFFIC BARRIER HEIGHT	
WO8-6	48X48	16.00						TRUCK CROSSING	R11-4	60X30	12.50	1	12.50				LOCAL TRAFFIC ONLY	6208064A		TEMPORARY RAISED PAVEMENT MARKER	
WO8-6c	48X48	16.00						TRUCK ENTRANCE	R11-4	60X30	12.50	1	12.50				ROAD CLOSED TO THRU TRAFFIC	9029400		TEMPORARY TRAFFIC SIGNALS	
WO8-7	36X36	9.00						LOOSE GRAVEL	CONST-3A	60X48	20.00						FINE SIGN	9029401		TEMPORARY TRAFFIC SIGNALS AND LIGHTING	
WO8-7a	36X36	9.00						FRESH OIL / LOOSE GRAVEL	CONST-3X	56X12	4.67						SPEEDING/PASSING (PLATE)				
WO8-9	48X48	16.00						LOW SHOULDER	MISCELLANEOUS SIGNS												
WO8-11	48X48	16.00						UNEVEN LANES	CONST-5	48X36	12.00						POINT OF PRESENCE				
WO8-12	48X48	16.00						NO CENTER LINE	CONST-5	96X48	32.00						POINT OF PRESENCE				
WO8-15	48X48	16.00						GROOVED PAVEMENT	CONST-8	48X36	12.00	2	24.00				WORK ZONE NO PHONE ZONE				
WO8-15P	30X24	5.00						MOTORCYCLE (PLAQUE)													
WO8-17L	48X48	16.00						SHOULDER DROP-OFF (SYMBOL LEFT)													
WO8-17R	48X48	16.00						SHOULDER DROP-OFF (SYMBOL RIGHT)													
WO8-17P	30X24	5.00						SHOULDER DROP-OFF (PLAQUE)													
W10-1	42RND.	9.62						RAILROAD CROSSING													
W012-1	24X24	4.00						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						ADVISORY SPEED (PLAQUE)													
W016-2	30X24	5.00						XXX FEET (PLAQUE)													
W016-3	30X24	5.00						X MILE (PLAQUE)													
WO20-1	48X48	16.00	8	128.00				ROAD/BRIDGE/RAMP WORK AHEAD													
WO20-2	48X48	16.00						DETOUR AHEAD													
WO20-3	48X48	16.00						ROAD CLOSED AHEAD	616-10.05												
WO20-4	48X48	16.00	2	32.00				ONE LANE ROAD AHEAD	CONSTRUCTION SIGNS												
WO20-5	48X48	16.00						RIGHT/CENTER/LEFT LANE CLOSED AHEAD	616-10.10												
WO20-5a	48X48	16.00						2 RIGHT/CENTER/LEFT LANES CLOSED AHEAD	RELOCATED SIGNS												
WO20-6a	48X48	16.00	2	32.00				RIGHT/CENTER/LEFT LANE CLOSED													
WO20-7a	48X48	16.00	2	32.00				FLAGGER (SYMBOL)													
WO21-2	36X36	9.00						FRESH OIL													
WO21-5	48X48	16.00						SHOULDER WORK / SHOULDER WORK AHEAD													
WO22-1	48X48	16.00						BLASTING ZONE AHEAD													
WO22-2	42X36	10.50						TURN OFF 2-WAY RADIO AND PHONE													
WO22-3	42X36	10.50						END BLASTING ZONE													
GO22-1	21X15	2.19						WET PAINT (ARROW PIVOTS)													

MISC. LUMP SUM TEMPORARY TRAFFIC CONTROL

61699011 LUMP SUM(*) ITEMS INCLUDED

NOTE: ALL TEMPORARY TRAFFIC CONTROL ITEMS ARE INCLUDED IN PAY ITEM 616-99.01 LUMP SUMP TEMPORARY TRAFFIC CONTROL, UNLESS OTHERWISE NOTED, QUANTITIES SHOWN ARE ESTIMATES ONLY AND SUBJECT TO CHANGE BASED ON FIELD CONDITIONS.

SUMMARY OF QUANTITIES
SHEET 6 OF 6



Kimley»Horn
KIMLEY-HORN AND ASSOCIATES, INC.
805 PENNSYLVANIA AVENUE, SUITE 150
KANSAS CITY, MO 64105
PHONE: 816-652-0350
WWW.KIMLEY-HORN.COM

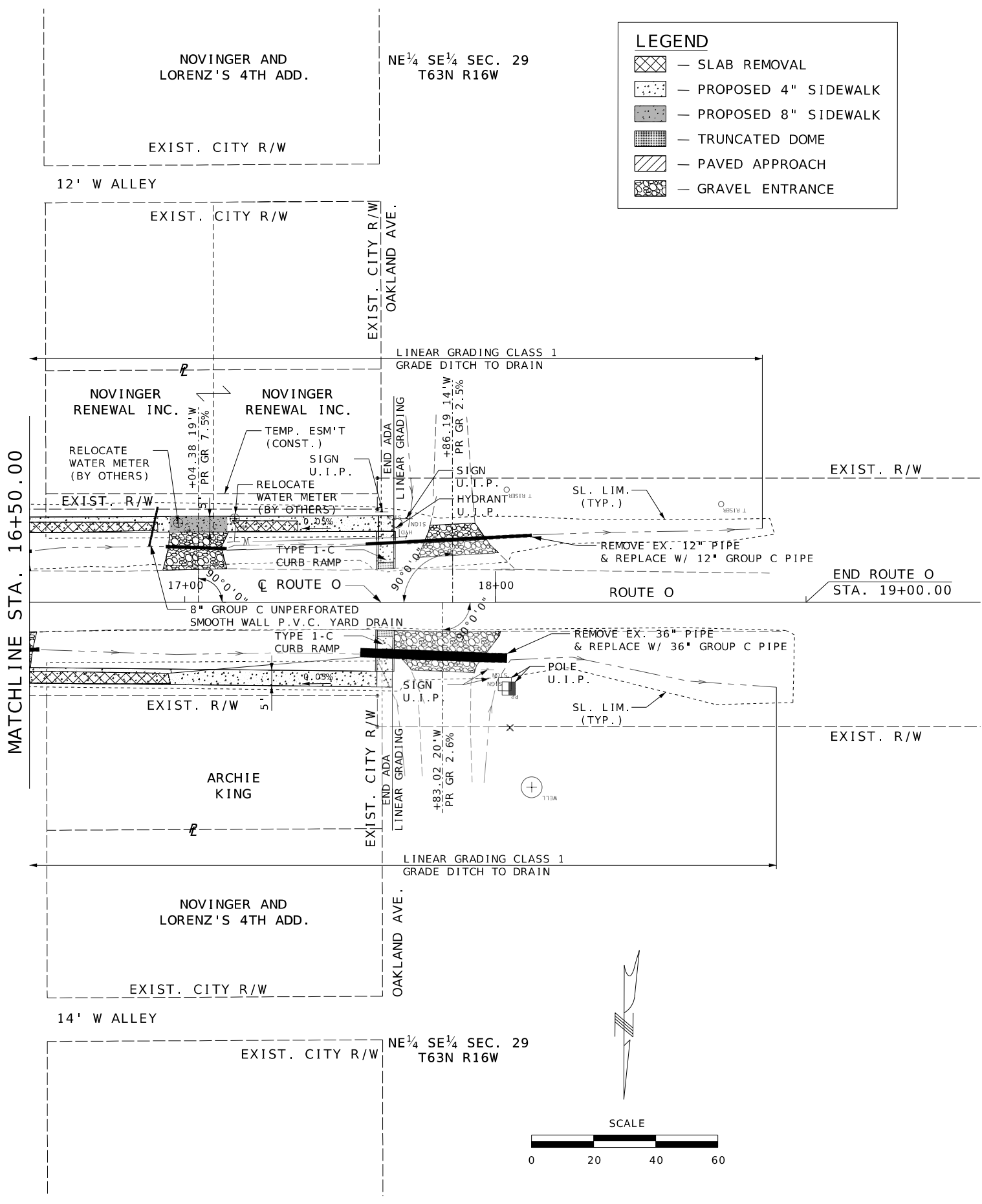
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

[illegible]

DATE PREPARED	
11/20/2025	
ROUTE	STATE
VAR.	MO
DISTRICT	SHEET NO.
NE	4
COUNTY	
ADAIR	
JOB NO.	
JNE0198	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	



K:\KNC_TPTO\268242003 - MODOT Adair County ADA\ProjectWise DGNs\004_P_01_NE0198_120.dgn 4:04:45 PM 11/20/2025



LEGEND

— SLAB REMOVAL

— PROPOSED 4" SIDEWALK

— PROPOSED 8" SIDEWALK

— TRUNCATED DOME

— PAVED APPROACH

— GRAVEL ENTRANCE

ROUTE O PLAN
SHEET 3 OF 3

STATE OF MISSOURI

LORA ELLEN DAVIS

REGISTERED PROFESSIONAL ENGINEER

NUMBER PE-2023011048

11/21/2023

DATE PREPARED

11/20/2025

ROUTE

VAR.

STATE

MO

DISTRICT

NE

SHEET NO.

6

COUNTY

ADAIR

JOB NO.

JNE0198

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION

DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

MoDOT

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

Kimley»Horn

KIMLEY-HORN AND ASSOCIATES, INC.
805 PENNSYLVANIA AVENUE, SUITE 150
KANSAS CITY, MO 64105
PHONE: 816-652-0350
WWW.KIMLEY-HORN.COM

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

NW¼ NW¼ SEC. 28
T63N R16W

APPROX. ¼¼ SECTION LINE

EDWARD M. &
MELANIE S. GRGURICH

SW¼ NW¼ SEC. 28
T63N R16W



S1-1

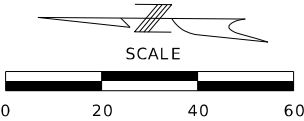


W16-9P

⑤

LEGEND

- SLAB REMOVAL
- PROPOSED 4" SIDEWALK
- PROPOSED 8" SIDEWALK
- TRUNCATED DOME
- PAVED APPROACH
- GRAVEL ENTRANCE



SCALE

EXIST. R/W

BEGIN ROUTE 149
STA. 428+40.00

429+00

430+00

CL ROUTE 149

431+00

ROUTE 149 (ROMBAUER AVE)

432+00

433+00

TYPE 1-A
CURB RAMP

500°25'17"E

POLE TO BE MOVED
BY OTHERS

SL. LIM.
(TYP.)

POLE TO BE MOVED
BY OTHERS

INSTALL SCHOOL CROSSING
AHEAD SIGN
POST UIP

POLE TO BE MOVED
BY OTHERS
RELOCATE
HYDRANT
(BY OTHERS)

EXIST. GRASS DRIVE
U.I.P.

EXIST. R/W

SIGN
U.I.P.

TIE INTO EXIST
PRIVATE WALK

TIE INTO EXIST
PRIVATE WALK

WATER METER
U.I.P.

TYPE S-CURB
STA. 430+90 - 431+25

TEMP. ESM'T.
(CONST.)

SL. LIM.
(TYP.)

GRADE SIDEWALK TO
MATCH EXIST. DRIVE EDGE

TEMP. ESM'T.
(CONST.)

EXIST. CITY R/W

10TH ST

EXIST. CITY R/W

DIOCESE
OF
ST JOSEPH

ROMBAUER - COAL
COMPANY 1ST ADD

DIOCESE
OF
JEFFERSON CITY
REAL ESTATE
CORPORATION

TIMOTHY
DANIEL
MAEDER

EXIST. CITY R/W

9TH ST
(NOT OPEN)

EXIST. CITY R/W

ROMBAUER - COAL
COMPANY 1ST ADD

TIMOTHY
DANIEL
MAEDER

MATCHLINE STA. 433+50.00

NW¼ NW¼ SEC. 28
T63N R16W

EXIST. CITY R/W

SW¼ NW¼ SEC. 28
T63N R16W

EXIST. CITY R/W

ROUTE 149 PLAN
SHEET 1 OF 6



DATE PREPARED 11/20/2025	
ROUTE VAR.	STATE MO
DISTRICT NE	SHEET NO. 7
COUNTY ADAIR	
JOB NO. JNE0198	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION
COMMISSION



Kimley»Horn
KIMLEY-HORN AND ASSOCIATES, INC.
805 PENNSYLVANIA AVENUE, SUITE 150
KANSAS CITY, MO 64105
PHONE: 816-652-0350
WWW.KIMLEY-HORN.COM

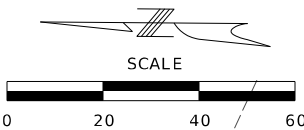
SW¼ NW¼ SEC. 28
T63N R16W

SW¼ NW¼ SEC. 28
T63N R16W

EDWARD M. &
MELANIE S. GRGURICH

LEGEND

- SLAB REMOVAL
- PROPOSED 4" SIDEWALK
- PROPOSED 8" SIDEWALK
- TRUNCATED DOME
- PAVED APPROACH
- GRAVEL ENTRANCE

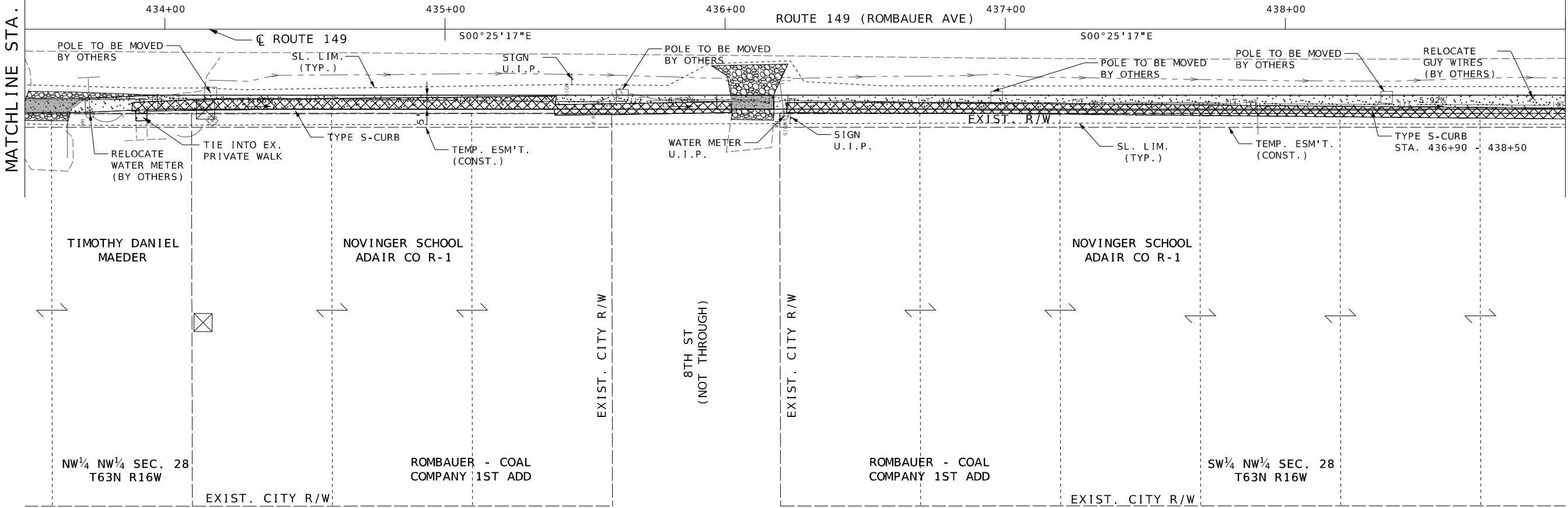


NOVINGER SCHOOL
ADAIR CO R-1

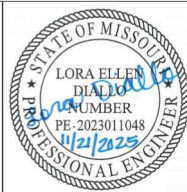
EXIST. R/W

MATCHLINE STA. 433+50.00

MATCHLINE STA. 439+00.00



ROUTE 149 PLAN
SHEET 2 OF 6



DATE PREPARED 11/20/2025	
ROUTE VAR.	STATE MO
DISTRICT NE	SHEET NO. 8
COUNTY ADAIR	
JOB NO. JNE0198	
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)

Kimley»Horn

KIMLEY-HORN AND ASSOCIATES, INC.
805 PENNSYLVANIA AVENUE, SUITE 150
KANSAS CITY, MO 64105
PHONE: 816-652-0350
WWW.KIMLEY-HORN.COM

NW¼ NW¼ SEC. 28
T63N R16W

NW¼ SW¼ SEC. 28
T63N R16W

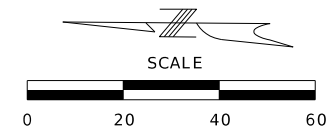
- LEGEND**
- SLAB REMOVAL
 - PROPOSED 4" SIDEWALK
 - PROPOSED 8" SIDEWALK
 - TRUNCATED DOME
 - PAVED APPROACH
 - GRAVEL ENTRANCE



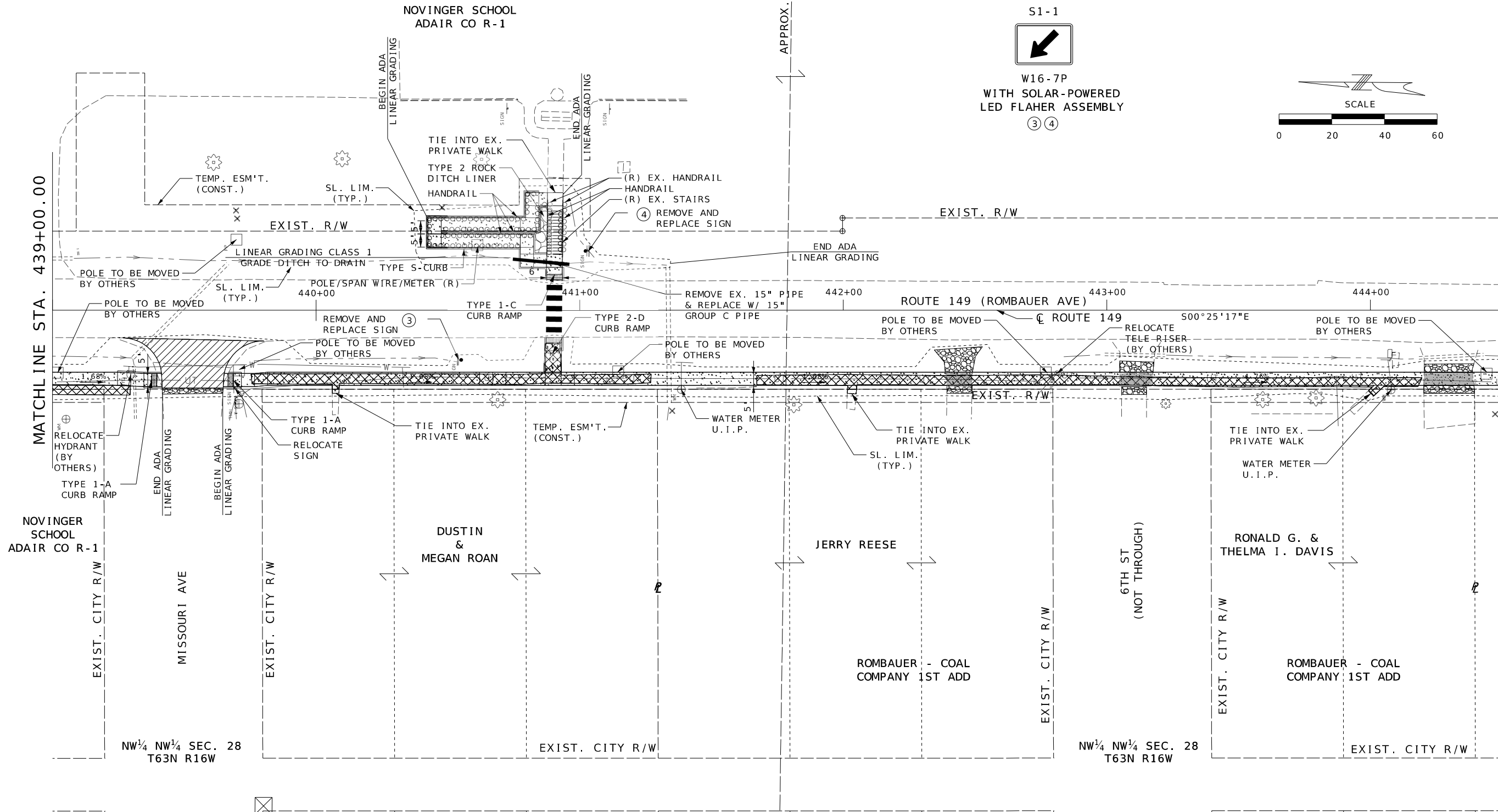
S1-1



W16-7P
WITH SOLAR-POWERED
LED FLAHER ASSEMBLY
③ ④

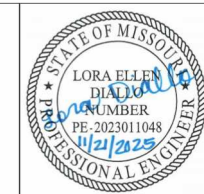


APPROX. ¼ SECTION LINE



MATCHLINE STA. 439+00.00

MATCHLINE STA. 444+50.00



DATE PREPARED 11/20/2025	
ROUTE VAR.	STATE MO
DISTRICT NE	SHEET NO. 9
COUNTY ADAIR	
JOB NO. JNE0198	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

DATE	DESCRIPTION

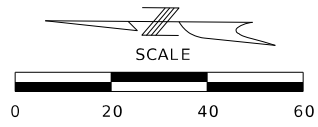
MISSOURI HIGHWAYS AND TRANSPORTATION
COMMISSION

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

Kimley»Horn

KIMLEY-HORN AND ASSOCIATES, INC.
805 PENNSYLVANIA AVENUE, SUITE 150
KANSAS CITY, MO 64105
PHONE: 816-652-0350
WWW.KIMLEY-HORN.COM

ROUTE 149 PLAN
SHEET 3 OF 6



NOVINGER SCHOOL
ADAIR CO R-1



S1-1



W16-9P

⑥

NW 1/4 SW 1/4 SEC. 28
T63N R16W

ROSS'S FIRST
ADDITION

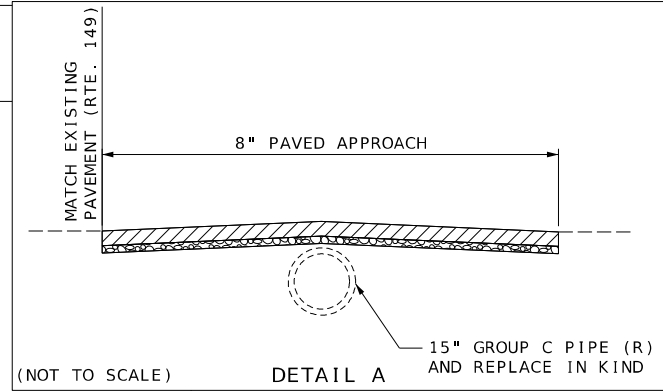
RADANT PROPERTIES
LLC.

ROBERT L. WITHROW

JAMIE LEO
WILLIAMS

LEGEND

- SLAB REMOVAL
- PROPOSED 4" SIDEWALK
- PROPOSED 8" SIDEWALK
- TRUNCATED DOME
- PAVED APPROACH
- GRAVEL ENTRANCE



NW 1/4 SW 1/4 SEC. 28
T63N R16W

PARK ST

EXIST. CITY R/W

EXIST. R/W

EXIST. R/W

EXIST. R/W

⑥ INSTALL SCHOOL CROSSING AHEAD SIGN
POST UIP

445+00

446+00

447+00

448+00

449+00

ROUTE 149 (ROMBAUER AVE)

ROUTE 149

RELOCATE
WATER METER
(BY OTHERS)

RELOCATE
HYDRANT
(BY OTHERS)

RELOCATE
WATER VALVE
(BY OTHERS)

500°25'17"E

SL. LIM.
(TYP.)

POLE TO BE MOVED
BY OTHERS

SIGN
R&R

MAILBOX
R&R

REMOVE EX. 15" PIPE &
REPLACE W/ 15" GROUP C PIPE
(SEE DETAIL A)

SIGN
U.I.P.

RELOCATE
GUY WIRES
(BY OTHERS)

POLE TO BE MOVED
BY OTHERS

RELOCATE
TELE RISER
(BY OTHERS)

TEMP. ESM'T.
(CONST.)

SL. LIM.
(TYP.)

TIE INTO EXIST
PRIVATE WALK

END ADA
LINEAR GRADING

TEMP. ESM'T.
(CONST.)

POLE TO BE MOVED
BY OTHERS

EXIST. R/W

RONALD G. &
THELMA I. DAVIS

EXIST. CITY R/W

5TH ST
(NOT OPEN)

EXIST. CITY R/W

LUTHER L. &
DAISY MAY

ROMBAUER - COAL
COMPANY 1ST ADD

EXIST. CITY R/W

LARRY &
SHELDIA OLSON

NW 1/4
SW 1/4
SEC 28

EXIST. CITY R/W

NW 1/4 SW 1/4 SEC. 28
T63N R16W

NW 1/4 SW 1/4 SEC. 28
T63N R16W

ROUTE 149 PLAN
SHEET 4 OF 6



DATE PREPARED
11/20/2025

ROUTE VAR. MO
DISTRICT NE SHEET NO. 10

COUNTY
ADAIR

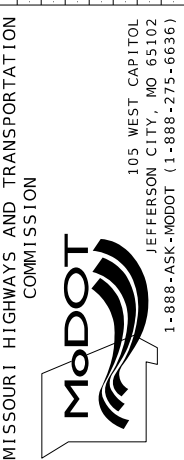
JOB NO.
JNE0198

CONTRACT ID.

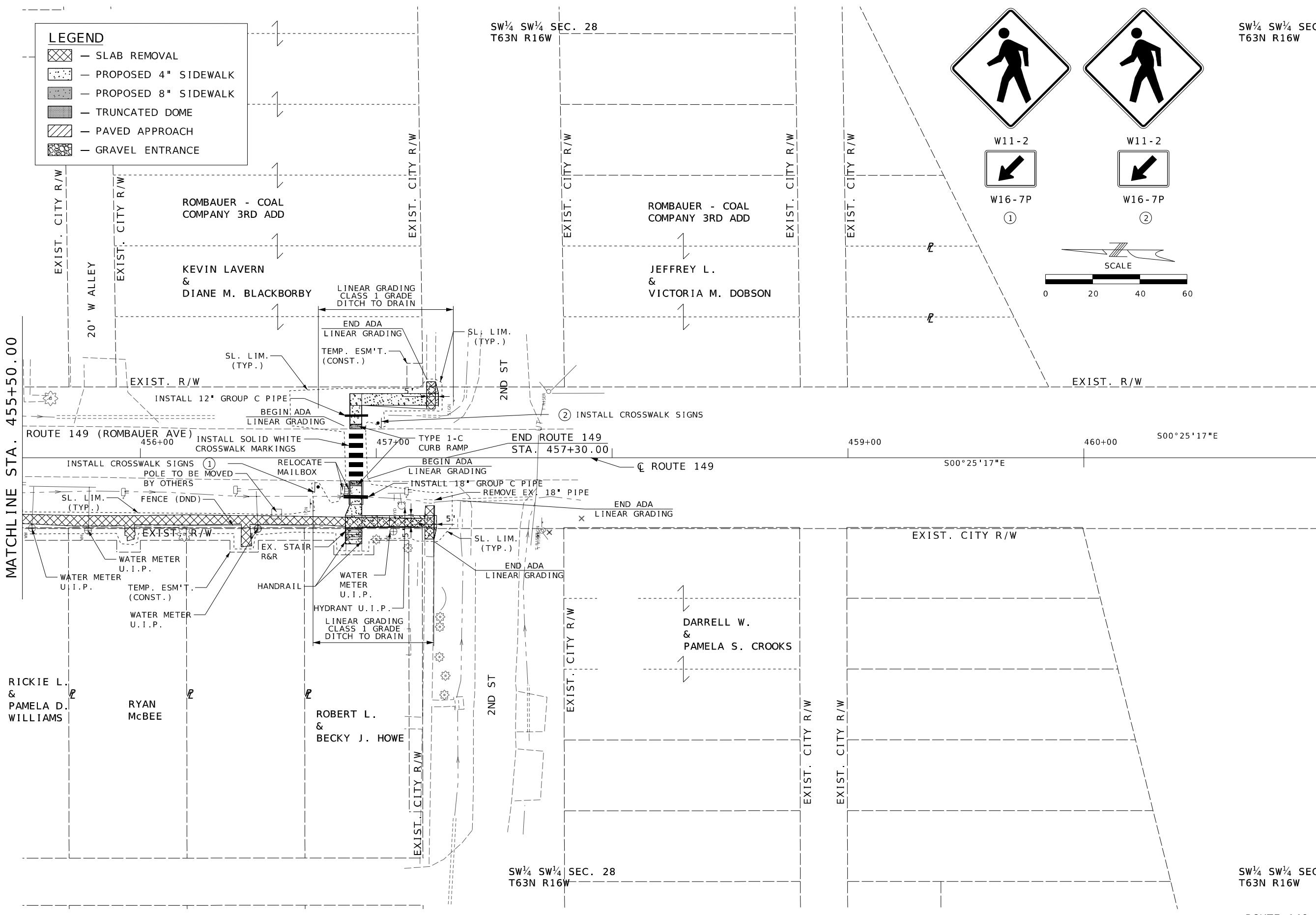
PROJECT NO.

BRIDGE NO.

DATE	DESCRIPTION



Kimley»Horn
KIMLEY-HORN AND ASSOCIATES, INC.
805 PENNSYLVANIA AVENUE, SUITE 150
KANSAS CITY, MO 64105
PHONE: 816-652-0350
WWW.KIMLEY-HORN.COM



LEGEND

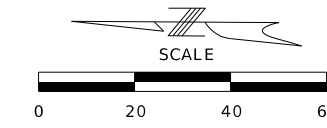
- SLAB REMOVAL
- PROPOSED 4" SIDEWALK
- PROPOSED 8" SIDEWALK
- TRUNCATED DOME
- PAVED APPROACH
- GRAVEL ENTRANCE

W11-2

W16-7P

①

②



SW¼ SW¼ SEC. 28
T63N R16W

SW¼ SW¼ SEC. 28
T63N R16W

DATE PREPARED
11/20/2025

ROUTE	STATE
VAR.	MO
DISTRICT	SHEET NO.
NE	12

COUNTY
ADAIR

JOB NO.
JNE0198

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DATE	DESCRIPTION

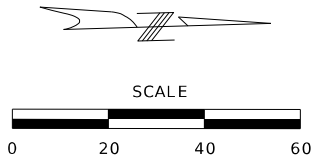
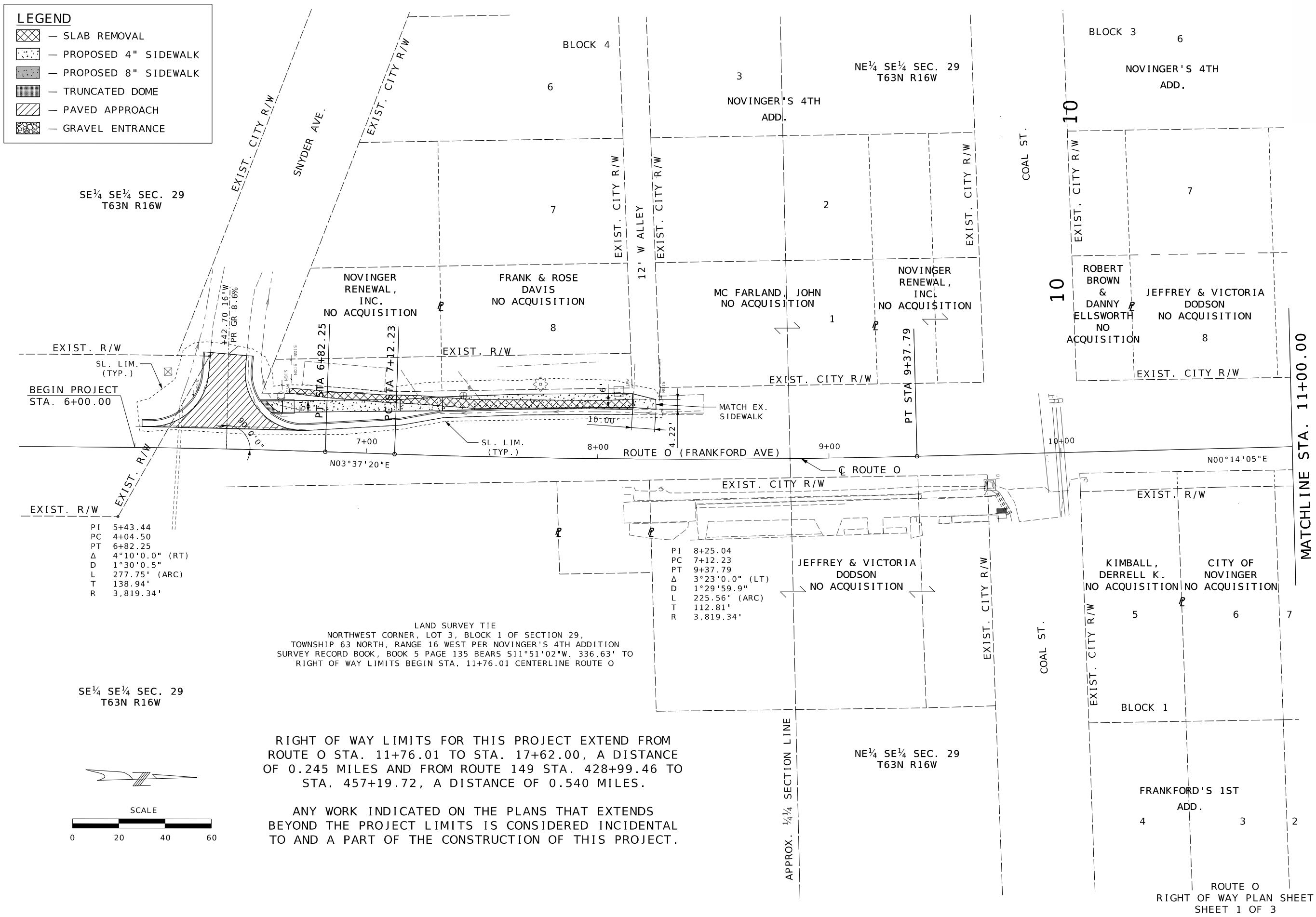
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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

KIMLEY-HORN AND ASSOCIATES, INC.
805 PENNSYLVANIA AVENUE, SUITE 150
KANSAS CITY, MO 64105
PHONE: 816-652-0350
WWW.KIMLEY-HORN.COM

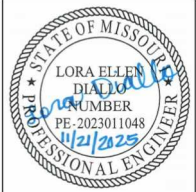
LEGEND

- SLAB REMOVAL
- PROPOSED 4" SIDEWALK
- PROPOSED 8" SIDEWALK
- TRUNCATED DOME
- PAVED APPROACH
- GRAVEL ENTRANCE



RIGHT OF WAY LIMITS FOR THIS PROJECT EXTEND FROM ROUTE O STA. 11+76.01 TO STA. 17+62.00, A DISTANCE OF 0.245 MILES AND FROM ROUTE 149 STA. 428+99.46 TO STA. 457+19.72, A DISTANCE OF 0.540 MILES.

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.



DATE PREPARED 11/20/2025	
ROUTE VAR.	STATE MO
DISTRICT NE	SHEET NO. 13
COUNTY ADAIR	
JOB NO. JNE0198	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

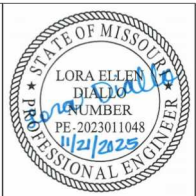
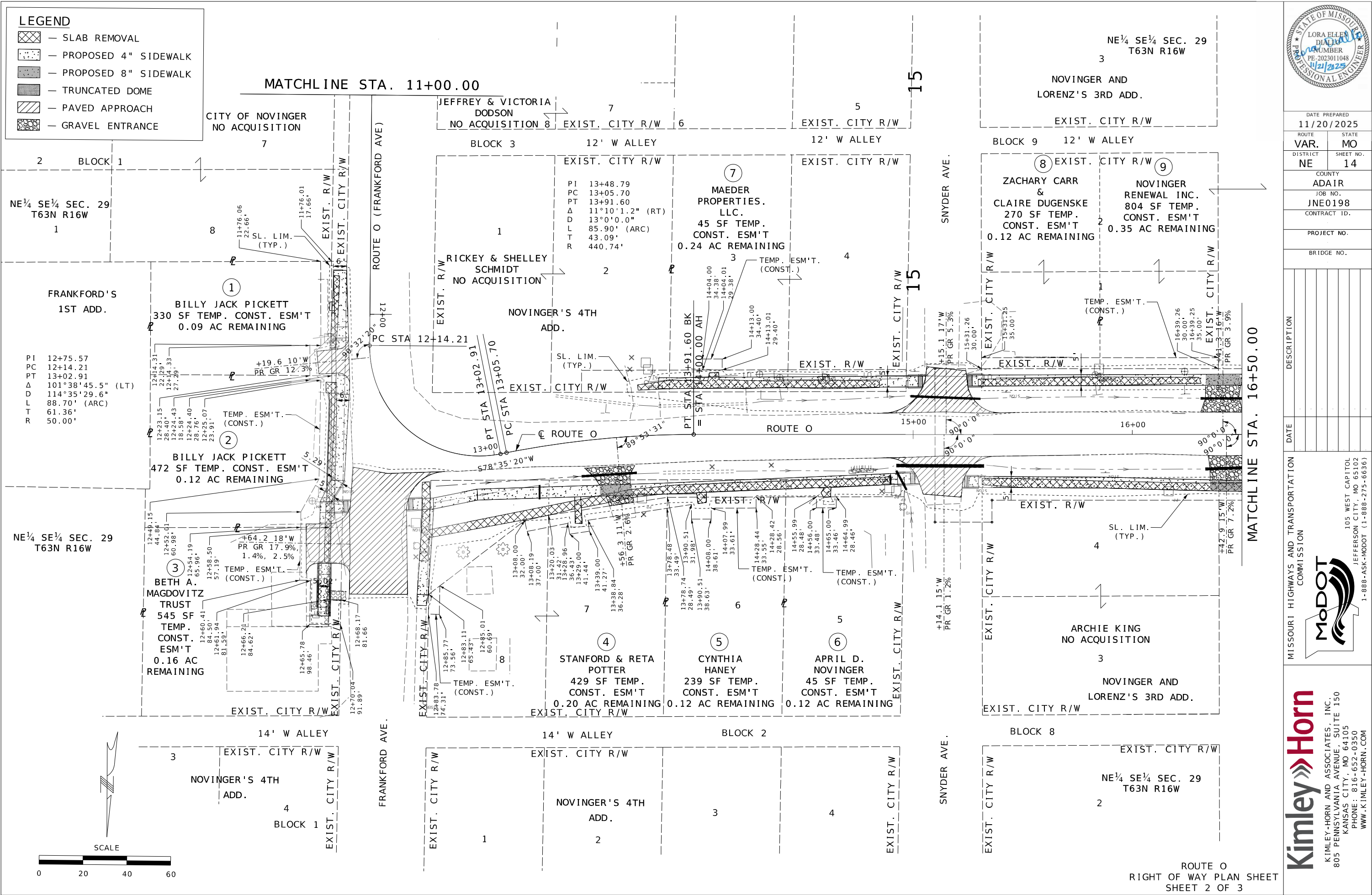
DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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

Kimley»Horn

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805 PENNSYLVANIA AVENUE, SUITE 150
KANSAS CITY, MO 64105
PHONE: 816-652-0350
WWW.KIMLEY-HORN.COM



DATE PREPARED 11/20/2025	
ROUTE VAR.	STATE MO
DISTRICT NE	SHEET NO. 14
COUNTY ADAIR	
JOB NO. JNE0198	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

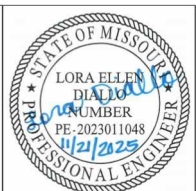
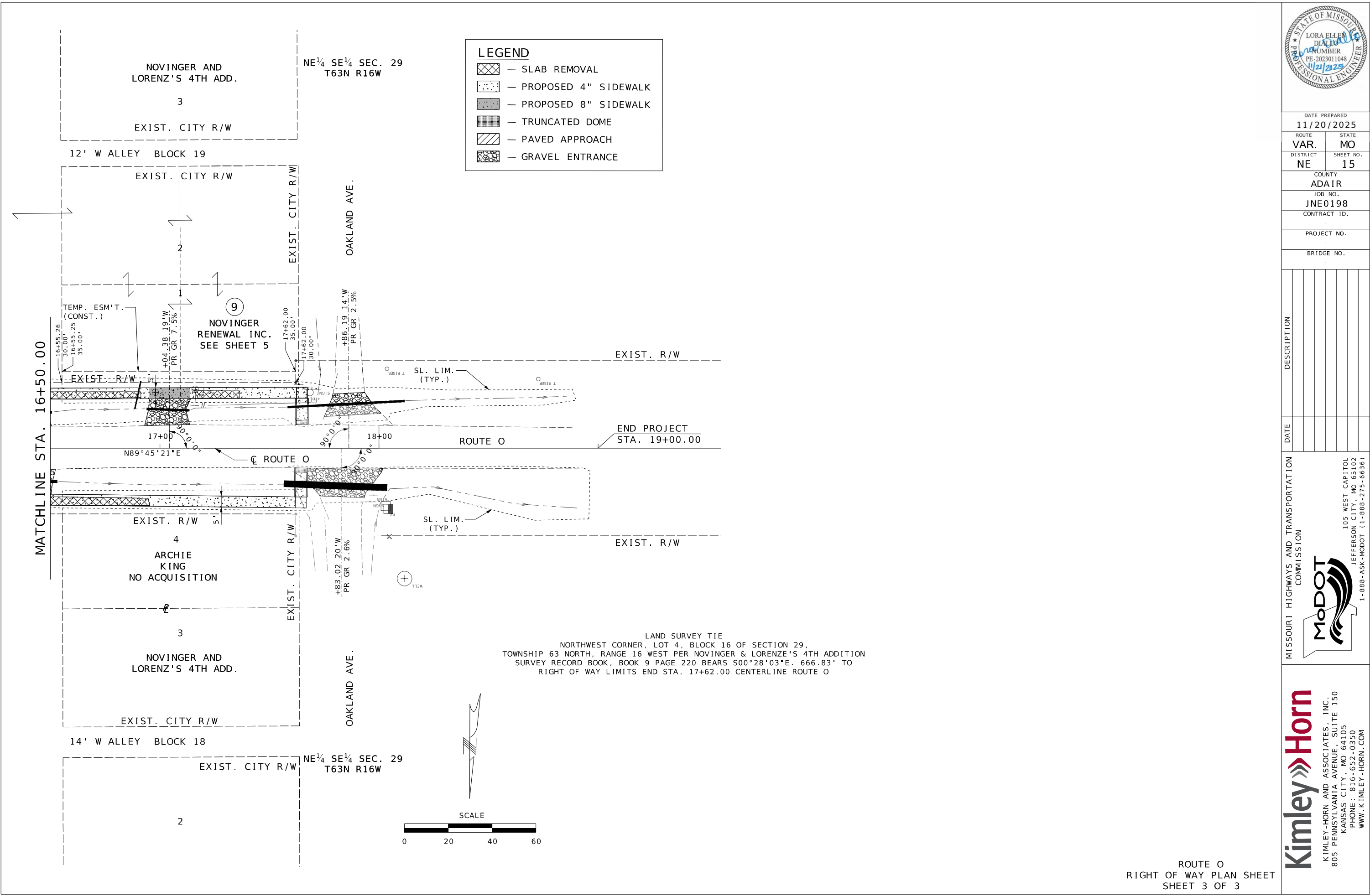
MoDOT

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

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805 PENNSYLVANIA AVENUE, SUITE 150
KANSAS CITY, MO 64105
PHONE: 816-652-0350
WWW.KIMLEY-HORN.COM

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



DATE PREPARED 11/20/2025	
ROUTE VAR.	STATE MO
DISTRICT NE	SHEET NO. 15
COUNTY ADAIR	
JOB NO. JNE0198	
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)

Kimley»Horn

KIMLEY-HORN AND ASSOCIATES, INC.
805 PENNSYLVANIA AVENUE, SUITE 150
KANSAS CITY, MO 64105
PHONE: 816-652-0350
WWW.KIMLEY-HORN.COM

NW¼ NW¼ SEC. 28
T63N R16W

SW¼ NW¼ SEC. 28
T63N R16W

430

EDWARD M. &
MELANIE S. GRGURICH
NO ACQUISITION

LAND SURVEY TIE
FOUND PIN AND CAP NORTHEAST CORNER, LOT 2 OF SECTION 28,
TOWNSHIP 63 NORTH, RANGE 16 WEST PER THE ROMBAUER-COAL COMPANY'S 4TH ADDITION
PLAT BOOK, BOOK 3 PAGE 50 BEARS S11°47'00"E. 155.67' TO
RIGHT OF WAY LIMITS BEGIN STA. 428+99.46 CENTERLINE ROUTE 149

LEGEND

— SLAB REMOVAL

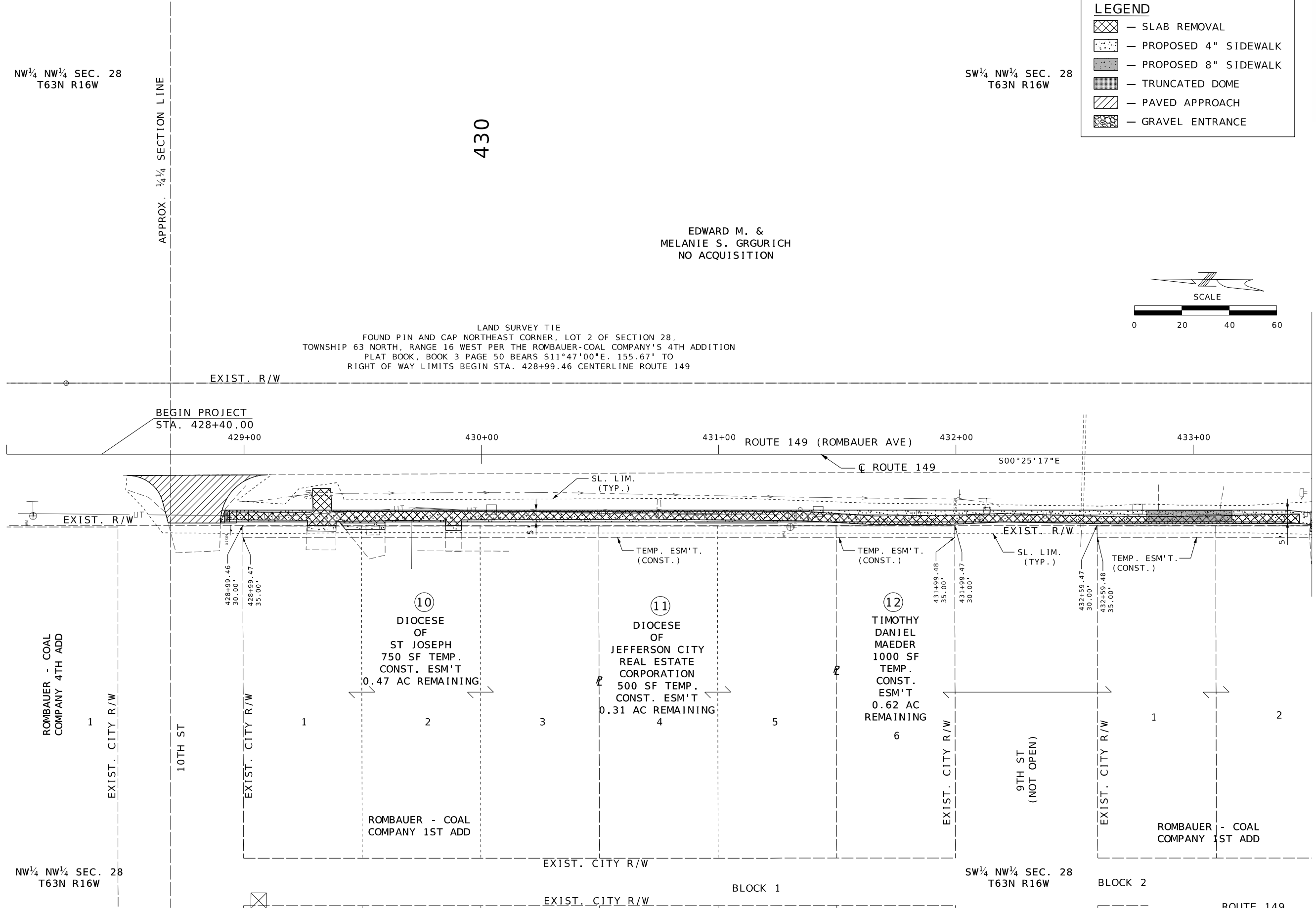
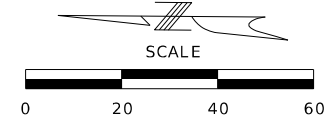
— PROPOSED 4" SIDEWALK

— PROPOSED 8" SIDEWALK

— TRUNCATED DOME

— PAVED APPROACH

— GRAVEL ENTRANCE



MATCHLINE STA. 433+50.00

NW¼ NW¼ SEC. 28
T63N R16W

SW¼ NW¼ SEC. 28
T63N R16W

ROUTE 149
RIGHT OF WAY PLAN SHEET
SHEET 1 OF 6

STATE OF MISSOURI

LORA ELLEN DIERKER

REGISTERED PROFESSIONAL ENGINEER

NUMBER PE-2023011048

12/2/2023

DATE PREPARED

11/20/2025

ROUTE

VAR.

DISTRICT

NE

STATE

MO

SHEET NO.

16

COUNTY

ADAIR

JOB NO.

JNE0198

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DATE

DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

MoDOT

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

Kimley»Horn

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805 PENNSYLVANIA AVENUE, SUITE 150
KANSAS CITY, MO 64105
PHONE: 816-652-0350
WWW.KIMLEY-HORN.COM

NW¼ NW¼ SEC. 28
T63N R16W

SW¼ NW¼ SEC. 28
T63N R16W

435

EDWARD M. &
MELANIE S. GRGURICH
NO ACQUISITION

LEGEND

— SLAB REMOVAL

— PROPOSED 4" SIDEWALK

— PROPOSED 8" SIDEWALK

— TRUNCATED DOME

— PAVED APPROACH

— GRAVEL ENTRANCE

0204060

SCALE

13
NOVINGER SCHOOL
ADAIR CO R-1
SEE SHEET 9

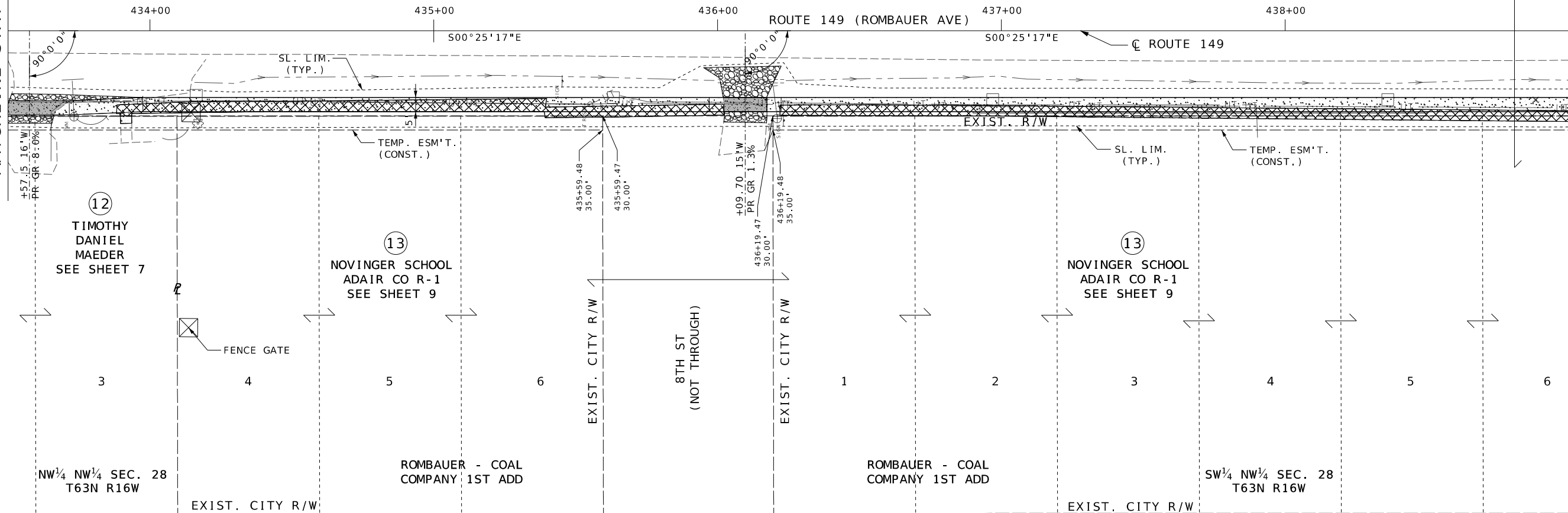
EXIST. R/W

SCALE

0 20 40 60

MATCHLINE STA. 433+50.00

MATCHLINE STA. 439+00.00



ROUTE 149
RIGHT OF WAY PLAN SHEET
SHEET 2 OF 6

STATE OF MISSOURI

LORA ELLEN DIAZ

REGISTERED PROFESSIONAL ENGINEER

PE-2023011048

11/21/2023

DATE PREPARED

11/20/2025

ROUTE

VAR.

STATE

MO

DISTRICT

NE

SHEET NO.

17

COUNTY

ADAIR

JOB NO.

JNE0198

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DATE

DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

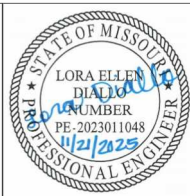
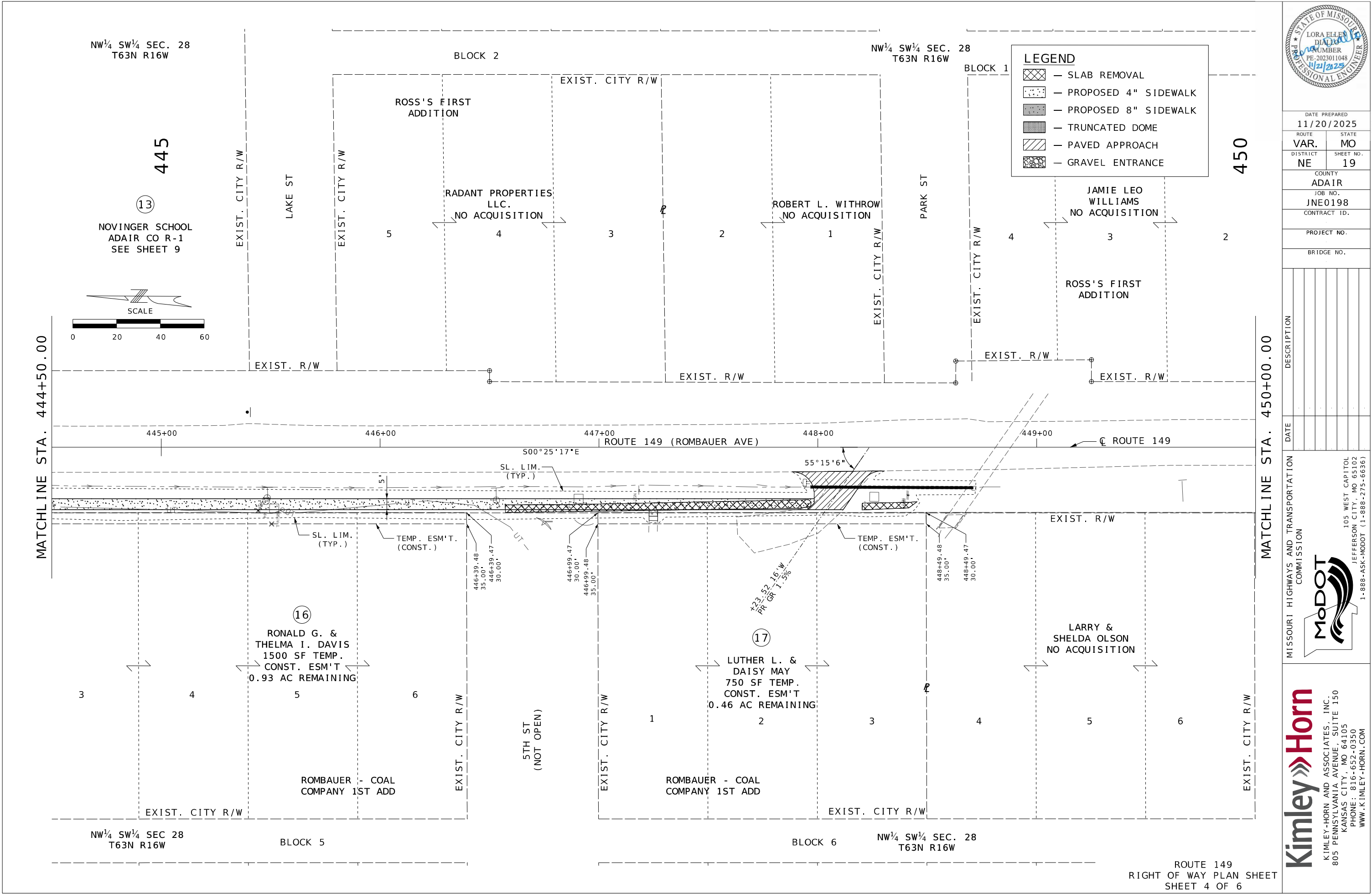
MoDOT

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805 PENNSYLVANIA AVENUE, SUITE 150
KANSAS CITY, MO 64105
PHONE: 816-652-0350
WWW.KIMLEY-HORN.COM

K:\KNC_TPTO\268242003 - MODOT Adair County ADA\ProjectWise DGNs\017_RW_05_NE0198_120.dgn 4:05:35 PM 11/20/2025



DATE PREPARED 11/20/2025	
ROUTE VAR.	STATE MO
DISTRICT NE	SHEET NO. 19
COUNTY ADAIR	
JOB NO. JNE0198	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

DATE	DESCRIPTION

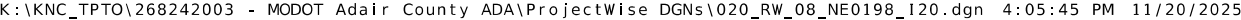
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

MoDOT

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

Kimley»Horn

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PHONE: 816-652-0350
WWW.KIMLEY-HORN.COM



PROJECT COORDINATE INFORMATION		
COORDINATE SYSTEM	STATE PLANE, MISSOURI CENTRAL	
HORIZONTAL DATUM	NAD 1983	
VERTICAL DATUM	NAVD 1988	
GEOID MODEL	GEOID 18A	
ELEVATIONS DETERMINED BY	GPS OBSERVATIONS	
PROJECT PROJECTION FACTOR	1.0000949	

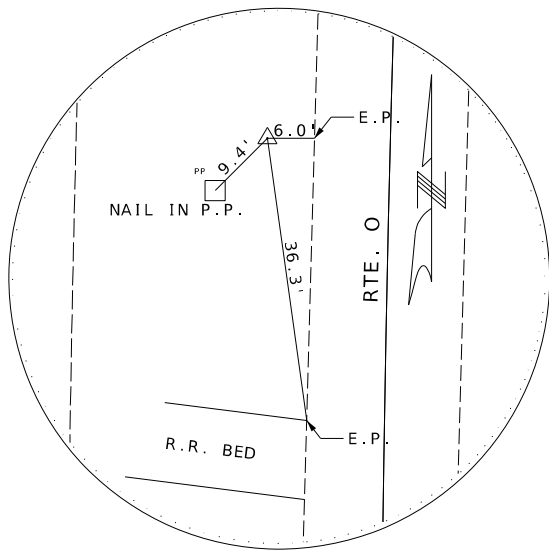
REFERENCE CONTROL INFORMATION	
COORDINATE SYSTEM	NAD 1983
CONTROL STATION	OPUS SOLUTION
DESIGNATION	
CORS_ID	
PID	
LATITUDE	40°13'57.3"
LONGITUDE	92°42'42.5"
NORTHING (M)	488375.587
EASTING (M)	482509.895
ZONE	CENTRAL

PROJECT AVERAGE GRID FACTOR	0.9999051
EXAMPLE OF PROJECT COORDINATE TO S.P.C.	

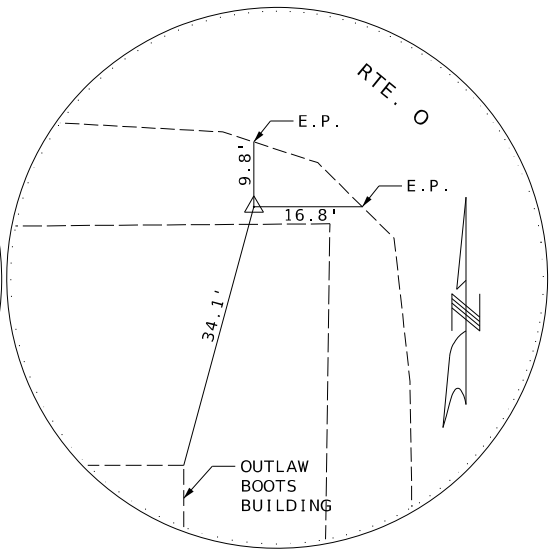
```
PROJECT NORTHING X AVERAGE GRID FACTOR
= STATE PLANE NORTHING
PROJECT EASTING X AVERAGE GRID FACTOR
= STATE PLANE EASTING

EXAMPLE: CONTROL POINT #85
N 1490286.98 X 0.99998782 = N 1490268.828
E 1366393.21 X 0.99998782 = E 1366376.567
```

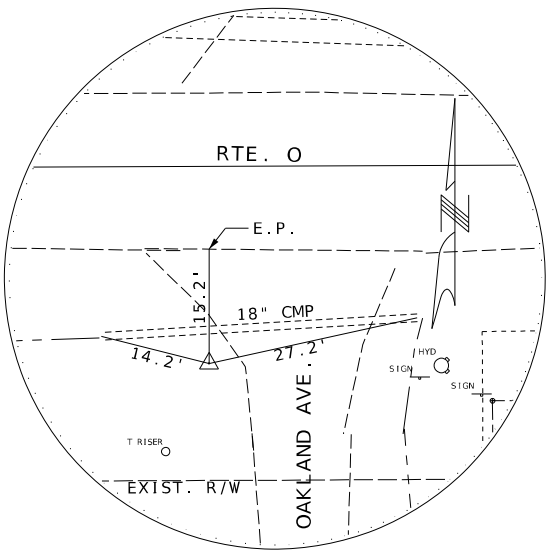
LINEAR UNIT CONVERSION
1 METER = 3.280833333 US SURVEY FEET (USFT)

[illegible]

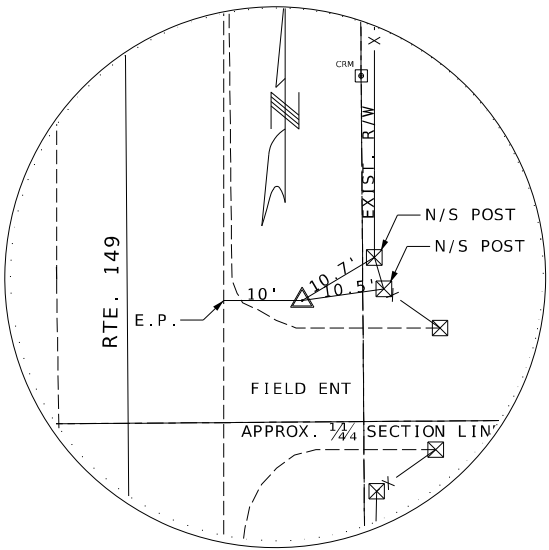
CONTROL POINT NO. 1
5/8" REBAR WITH "MODOT CONTROL" CAP
N: 1601010.6030
E: 1582209.4992
ELEV: 773.11'



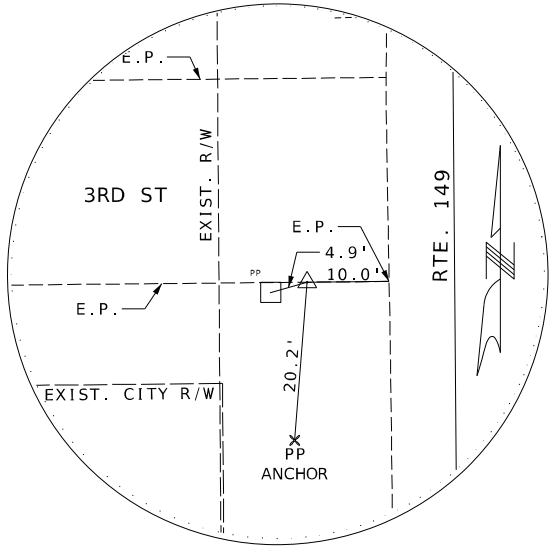
CONTROL POINT NO. 2
5/8" REBAR WITH "MODOT CONTROL" CAP
N: 1601709.2949
E: 1582203.8169
ELEV: 789.20'



CONTROL POINT NO. 3
5/8" REBAR WITH "MODOT CONTROL" CAP
N: 1601698.8993
E: 1581696.2798



CONTROL POINT NO. 4
5/8" REBAR WITH "MODOT CONTROL" CAP
N: 1603991.605
E: 1583367.067
ELEV: 605.89'



CONTROL POINT NO. 5
5/8" REBAR WITH "MODOT CONTROL" CAP
N: 1601438.512
E: 1583344.786
ELEV: 512.80'

COORDINATE POINT SHEET



DATE PREPARED	
11/20/2025	
ROUTE	STATE
VAR.	MO
DISTRICT	SHEET NO.
NE	22

COUNTY
ADAIR
JOB NO.
JNE0198
CONTRACT ID.

PROJECT NO.

BRIDGE NO.

[illegible]MISSOURI HIGHWAYS AND TRANSPORTATION
COMMISSION

105 WEST CAPITAL
JEFFERSON CITY, MO 65102
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INLET REPLACEMENT TABLE:

INLET #	CHANGE IN LEVEL OF THE ADJACENT SLABS	GENERAL LOCATION	COMMENTS
I-16	1" TO 1-1/2"	EAST SIDE OF BUS 63 BETWEEN HARRISON ST. AND WASHINGTON ST.	THERE IS A SECOND NEXT SLAB HAS 1" CHANGE IN LEVEL
I-18	1" TO 1-1/2"	EAST SIDE OF BUS 63 BETWEEN HARRISON ST. AND WASHINGTON ST.	THERE IS A SECOND NEXT SLAB HAS 3/4" CHANGE IN LEVEL
I-71	3/4"	EAST SIDE OF BUS 63 BETWEEN PIERCE ST AND SCOTT ST.	
I-203	1-1/2" TO 2"	EAST SIDE OF BUS 63 BETWEEN PIERCE ST AND SCOTT ST.	
I-157	1/2"	EAST SIDE OF BUS 63 BETWEEN SCOTT ST. AND NORMAL AVE.	
I-156	1/2"	EAST SIDE OF BUS 63 BETWEEN SCOTT ST. AND NORMAL AVE.	
I-145	1/2"	EAST SIDE OF BUS 63 BETWEEN SCOTT ST. AND NORMAL AVE.	
I-144	3/4"	EAST SIDE OF BUS 63 BETWEEN SCOTT ST. AND NORMAL AVE.	
I-117	1/2"	EAST SIDE OF BUS 63 BETWEEN NORMAL AVE. AND HIGHLAND AVE.	
I-83	3/4" TO 1"	EAST SIDE OF BUS 63 BETWEEN PARK AVE. AND ALEXANDER ST.	FOR ONE SIDE OF THE INLET, THE EAST SIDE
I-81	1-1/4" TO 3/4"	EAST SIDE OF BUS 63 BETWEEN PARK AVE. AND ALEXANDER ST.	
I-245	3/4"	WEST SIDE OF BUS 63 BETWEEN PATTERSON ST. AND GEORGE ST.	
I-108	1/2"	WEST SIDE OF BUS 63 BETWEEN PARK ST. AND ALEXANDER ST.	
I-109	3/4"	WEST SIDE OF BUS 63 BETWEEN HIGHLAND AVE. AND PARK AVE.	
I-111	3/4"	WEST SIDE OF BUS 63 BETWEEN HIGHLAND AVE. AND PARK AVE.	
I-113	1/2"	WEST SIDE OF BUS 63 BETWEEN NORMAL AVE. AND HIGHLAND AVE.	FOR ONE SIDE OF THE INLET, THE WEST SIDE
I-123	3/4" TO 1"	WEST SIDE OF BUS 63 BETWEEN NORMAL AVE. AND HIGHLAND AVE.	
I-124	1-1/2"	WEST SIDE OF BUS 63 BETWEEN NORMAL AVE. AND HIGHLAND AVE.	
I-141	1"	WEST SIDE OF BUS 63 BETWEEN SCOTT ST. AND NORMAL AVE.	
I-142	1/2" TO 1-1/2"	WEST SIDE OF BUS 63 BETWEEN SCOTT ST. AND NORMAL AVE.	
I-143	1/2" TO 1-1/2"	WEST SIDE OF BUS 63 BETWEEN SCOTT ST. AND NORMAL AVE.	
I-183	1" TO 1-1/2"	WEST SIDE OF BUS 63 BETWEEN SCOTT ST. AND NORMAL AVE.	
I-184	3/4" TO 1"	WEST SIDE OF BUS 63 BETWEEN SCOTT ST. AND NORMAL AVE.	
I-187	1/2"	WEST SIDE OF BUS 63 BETWEEN SCOTT ST. AND NORMAL AVE.	
I-195	1/2" TO 3/4"	WEST SIDE OF BUS 63 BETWEEN SCOTT ST. AND NORMAL AVE.	
I-196	1/2" TO 3/4"	WEST SIDE OF BUS 63 BETWEEN SCOTT ST. AND NORMAL AVE.	
I-198	3/4" TO 1-3/4"	WEST SIDE OF BUS 63 BETWEEN SCOTT ST. AND NORMAL AVE.	
I-202	1/2" TO 1"	WEST SIDE OF BUS 63 BETWEEN PIERCE ST. AND SCOTT ST.	
I-67	1/2" TO 1"	WEST SIDE OF BUS 63 BETWEEN PIERCE ST. AND SCOTT ST.	
I-19	1/2" TO 1"	WEST SIDE OF BUS 63 BETWEEN HARRISON ST. AND WASHINGTON ST.	
I-15	1/2" TO 3/4"	WEST SIDE OF BUS 63 BETWEEN HARRISON ST. AND WASHINGTON ST.	
I-11	3/4"	WEST SIDE OF BUS 63 BETWEEN MISSOURI ST. AND HARRISON ST.	
I-4	1/2" TO 3/4"	WEST SIDE OF BUS 63 BETWEEN ILLINOIS ST. AND MISSOURI ST.	

NOTE: SEE J2P2215 DRAINAGE PLANS LOCATED IN THE ELECTRONIC DELIVERABLES FOR INLET LOCATIONS.

NOTES :

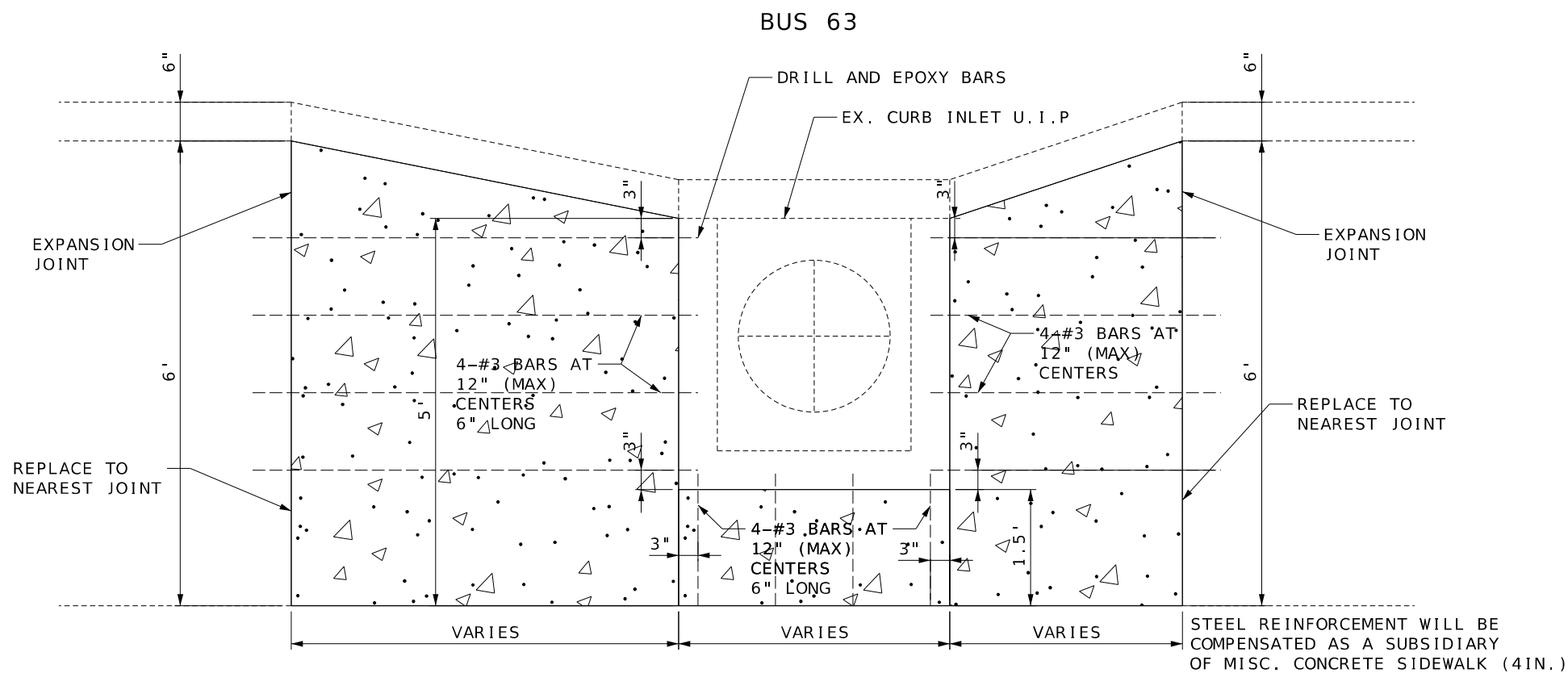
FOR REPAIRED ADA FACILITIES AND
TRANSITIONS TO EXISTING ADA
FACILITIES:

CHANGES IN LEVEL AT GRADE BREAKS
SHALL BE FLUSH.

CHANGES IN LEVEL OF 1/4" HIGH
MAXIMUM SHALL BE PERMITTED TO BE
VERTICAL.

CHANGES IN LEVEL OF 1/4" HIGH
MAXIMUM AND 1/2" HIGH MAXIMUM
SHALL BE BEVELED WITH A
SLOPE NOT STEEPER THAN 1V:2H,
ACROSS THE ENTIRE LEVEL CHANGE.

CROSS SLOPE: 2.0% MAX
RUNNING SLOPE: 5.0% MAX OR MATCH
ADJACENT ROADWAY GRADE



SPECIAL SHEET
INLET DETAIL
SHEET 1 OF 1



DATE PREPARED
11/20/2025

ROUTE VAR.	STATE MO
DISTRICT NE	SHEET NO. 23

COUNTY
ADAIR

JOB NO.
JNE0198

CONTRACT ID.

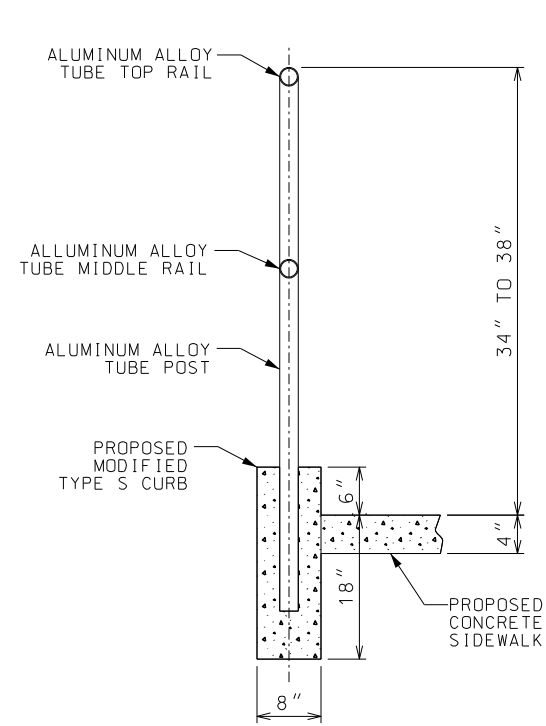
PROJECT NO.

BRIDGE NO.

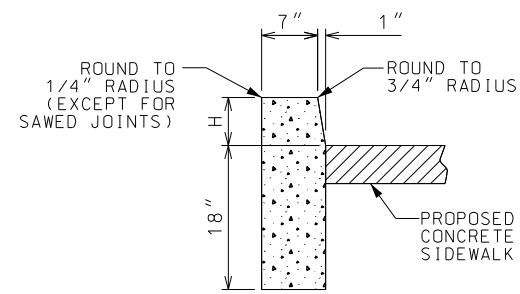
[illegible]MISSOURI HIGHWAYS AND TRANSPORTATION
COMMISSION

Kimley»»Horn

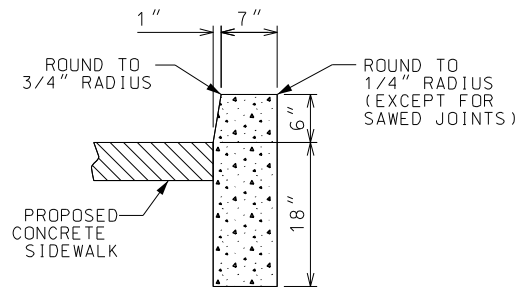
KIMLEY-HORN AND ASSOCIATES, INC.
805 PENNSYLVANIA AVENUE, SUITE 150
KANSAS CITY, MO 64105
PHONE: 816-652-0350
WWW.KIMLEY-HORN.COM



AT POST LOCATIONS
W/ PROPOSED SIDEWALK

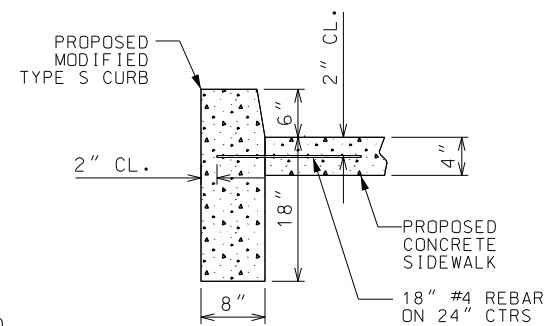


MODIFIED TYPE S CURB
(LEFT SIDE)

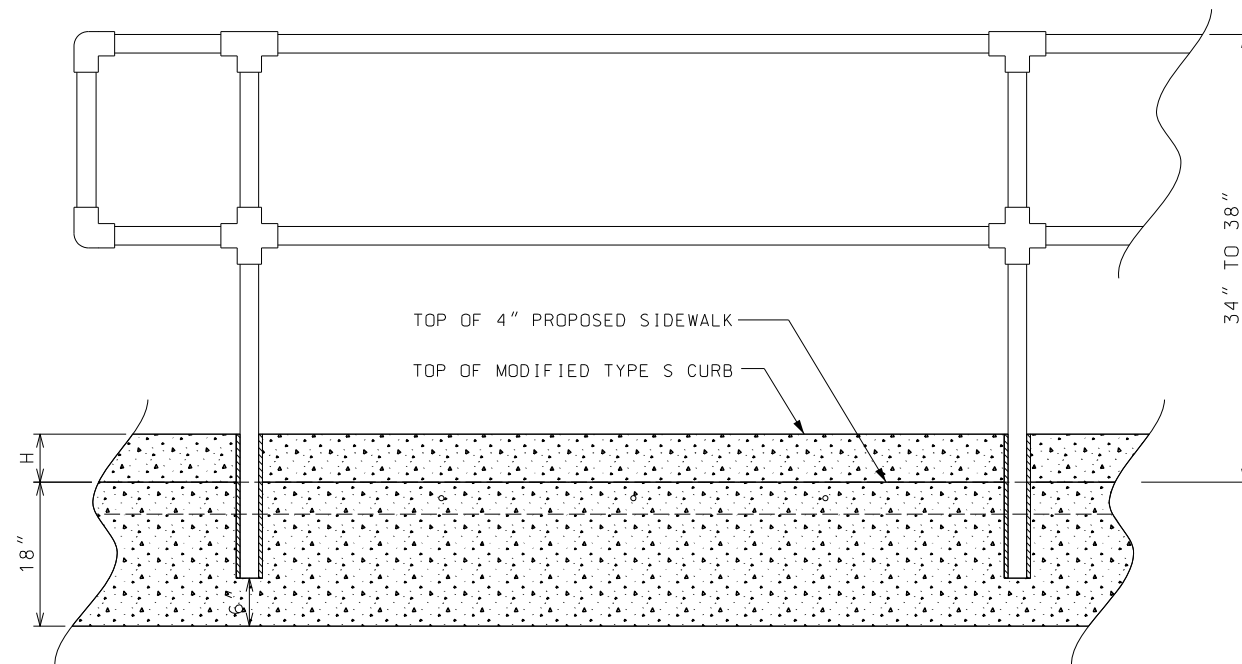


MODIFIED TYPE S CURB
(RIGHT SIDE)

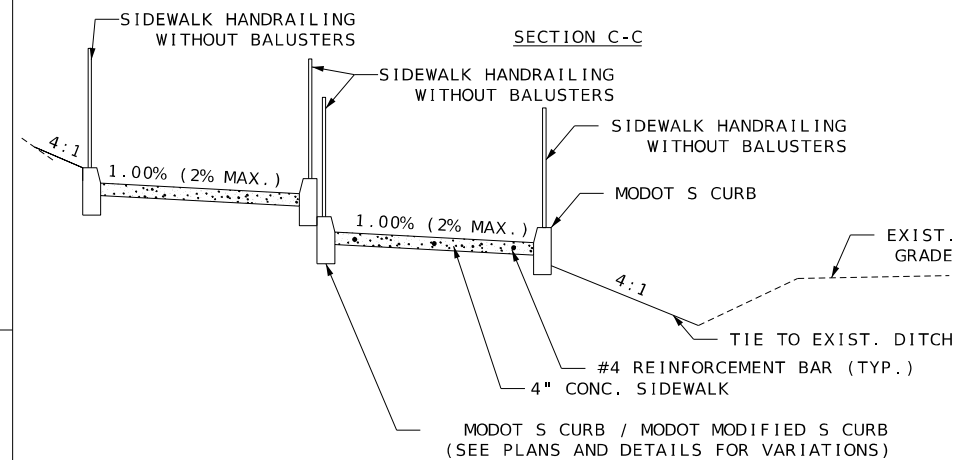
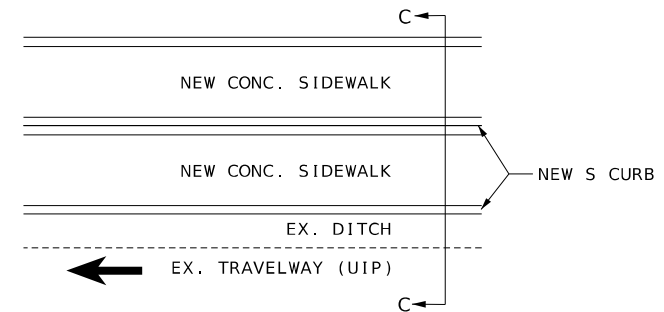
PROPOSED HAND RAIL SECTION



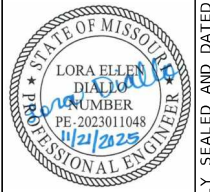
NO POST LOCATIONS
(RIGHT SIDE ONLY)



PROPOSED HANDRAIL PROFILE
WITH MODIFIED TYPE S CURB



5' SIDEWALK WITH S CURB & DITCH
NOT TO SCALE



DATE PREPARED 11/20/2025	
ROUTE VAR.	STATE MO
DISTRICT NE	SHEET NO. 24
COUNTY ADAIR	
JOB NO. JNE0198	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

DESCRIPTION	DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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JEFFERSON CITY, MO 65102
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MODIFIED S-CURB
 > 12" TALL (2'-6" MAX.)

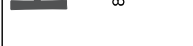


SPECIAL SHEET
MODIFIED S-CURB
SHEET 1 OF 1

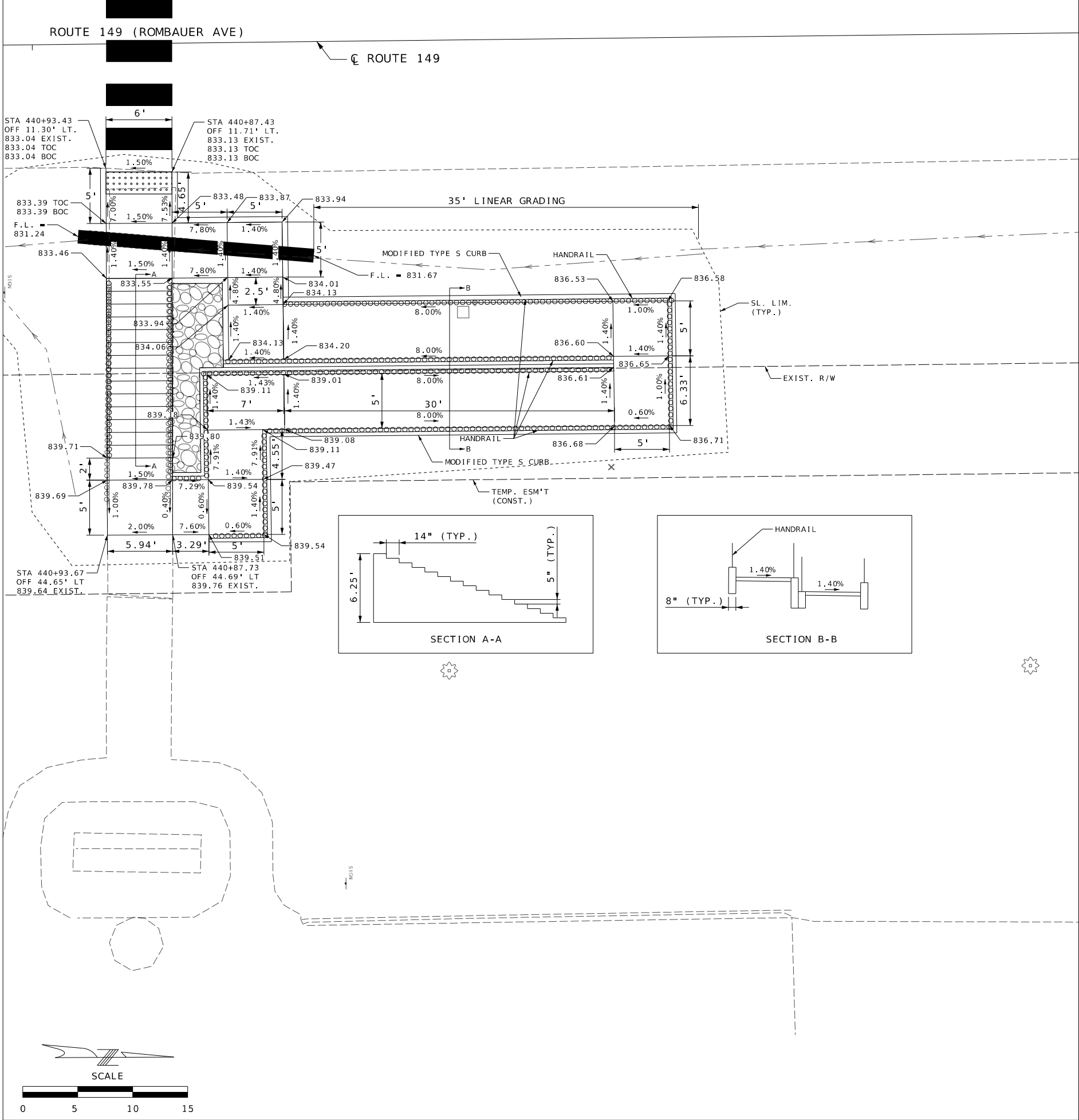


IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

1. ALTERNATIVES TO HANDRAIL MAY BE USED ONLY WITH APPROVAL OF THE ENGINEER.
2. FOR DETAILS OF HANDRAIL, SEE STANDARD PLAN 608.40A.

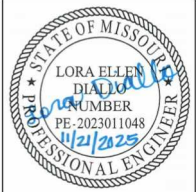


IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.



LEGEND

TYPE 2 ROCK DITCH LINER



DATE PREPARED 11/20/2025	
ROUTE VAR.	STATE MO
DISTRICT NE	SHEET NO. 27
COUNTY ADAIR	
JOB NO. JNE0198	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

MoDOT

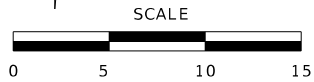
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

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PHONE: 816-652-0350
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SPECIAL SHEET
CURB RAMP DETAILS
SHEET 2 OF 3

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



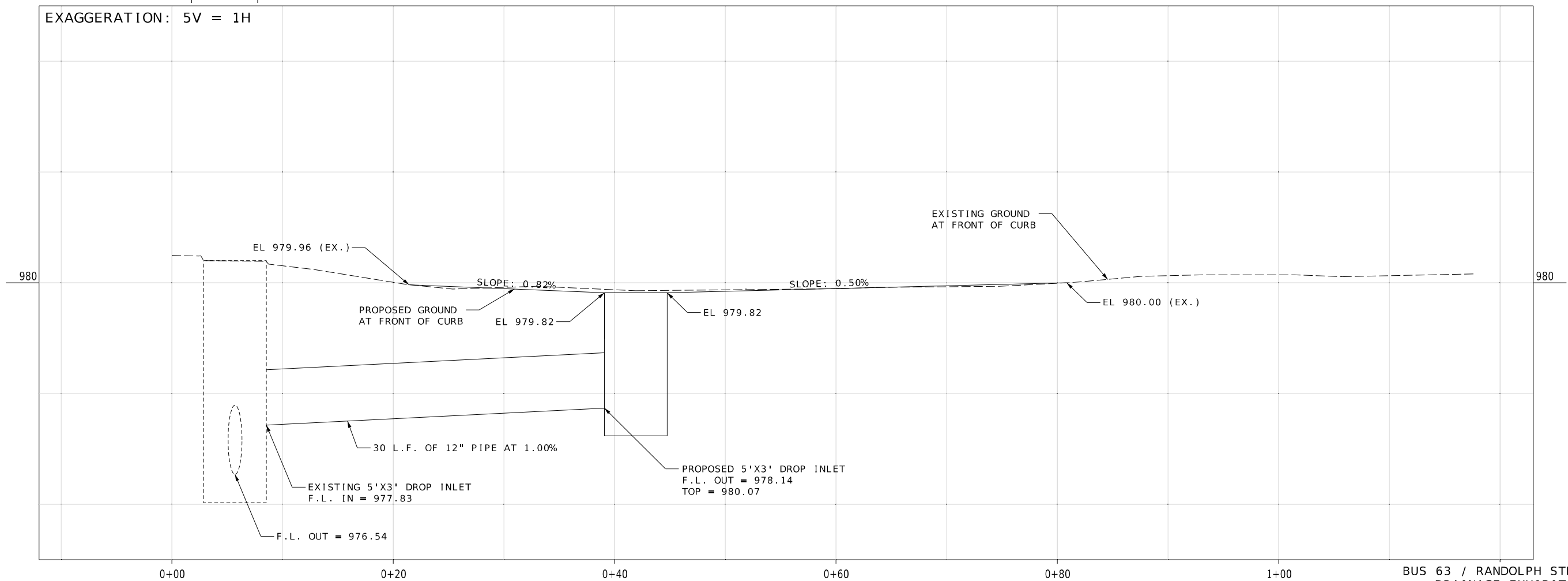
K:\KNC_TPTO\268242003 - MODOT Adair County ADA\ProjectWise DGNs\028_SS_06_NE0198.dgn 4:06:16 PM 11/20/2025



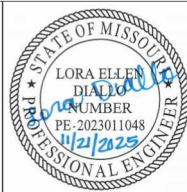
S. RANDOLPH ST.



EXAGGERATION:	$5V = 1H$
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BUS 63 / RANDOLPH STREET
DRAINAGE EXHIBIT
SHEET 1 OF 1



DATE PREPARED
11/20/2025

ROUTE VAR.	STATE MO
DISTRICT NE	SHEET 1 29

COUNTY	ADAIR
JOB NO.	JNE0198
CONTRACT ID.	

PROJECT NO.

BRIDGE NO.

DATE	DESCRIPTION
.	
.	
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.	
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MISSOURI HIGHWAYS AND TRANSPORTATION
COMMISSION

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

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KANSAS CITY, MO 64105
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IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

SPACING AND TAPER LENGTH FOR WORK ZONE SIGNS, CANNELIZERS, AND CONCRETE BARRIER

SIGN SPACING FOR ADVANCE SIGN SERIES (1) (2)		
PERMANENT POSTED SPEED MPH	UNDIVIDED HIGHWAYS	DIVIDED HIGHWAYS
0-35	200'	200'
40-45	350'	500'
50-55	500'	1000'
60-70	1000'	SA - 1000' SB - 1500' SC - 2640'

TAPER LENGTHS AND END TREATMENTS FOR CONCRETE BARRIER					
PERMANENT POSTED SPEED MPH	MINIMUM LANE TAPER LENGTH (3)			END TREATMENT (4)	
	10'	11'	12'		
	<40	160'	168'		BARRIER HEIGHT TRANSITION
	>40	160'	168'		APPROVED CRASH CUSHION

TAPER LENGTHS AND SPACING FOR CHANNELIZERS							
PERMANENT POSTED SPEED MPH	MINIMUM LANE TAPER LENGTH			MINIMUM SHOULDER TAPER LENGTH BASED ON 10' SHOULDER	BUFFER LENGTH FT.	MAXIMUM CHANNELIZER SPACING	
	10'	11'	12'			THROUGH TAPER	THROUGH WORK AREA
0-35	205'	225'	245'	70'	280'	200'	40'
40-45	450'	495'	540'	150'	400'	350'	80'
50-55	550'	605'	660'	185'	560'	500'	80'
60-70	700'	770'	840'	235'	640'	1000'	120'

NOTES :

- (1) SPACING BETWEEN SIGNS AND SPACING BETWEEN LAST SIGN AND FLAGGER, BEGINNING OF TAPER, OF SIGNED CONDTITION.
- (2) SPACINGS MAY BE ADJUSTED AS NECESSARY TO MEET FIELD CONDITIONS.
- (3) TAPER LENGTHS SHOWN INCLUDE LENGTH REQUIRED FOR LANE AND 10' SHOULDER.
- (4) CONCRETE BARRIER MAY BE INSTALLED AT AN 8:1 FLARE RATE FROM THE SHOULDER POINT TO THE LIMITS OF THE CLEAR ZONE WHERE THE SIDE SLOPE IS 6:1 OR FLATTER.

TRAFFIC CONTROL
SHEET 1 OF 6



DATE PREPARED
1/20/2025

ROUTE VAR.	STATE MO
---------------	-------------

DISTRICT	SHEET NO.
NE	30

COUNTY
ADAIR

JOB NO.
JNE0198

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

[illegible][illegible]

MISSOURI HIGHWAYS AND TRANSPORTATION
COMMISSION

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BRIDGE NO.

TRAFFIC CONTROL
SHEET 4 OF 6

MoDOT

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JEFFERSON CITY, MO 65102
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COMMISSION

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KANSAS CITY, MO 64105
PHONE: 816-652-0350
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1. NO DIRECT PAYMENT WILL BE MADE FOR ORANGE SAFETY FENCE AS REQUIRED AROUND EXCAVATION OF SIDEWALK & CURB RAMP AREAS.
2. SEE JSP's FOR PEDESTRIAN TRAFFIC DEVICES.
3. WORKING AREAS SHALL BE GUARDED FROM PEDESTRIAN ACCESS BY BARRICADE FENCING 36" TO 48" IN HEIGHT WITH A GAP NO GREATER THAN 6" FROM THE GROUND AND HOLES NO GREATER THAN 4" IN ANY DIRECTION.
4. PEDESTRIAN ACCESS ON SIDEWALK SHALL BE PROVIDED WITH A WIDTH NOT LESS THAN 4' OF SMOOTH STABLE SURFACING ADJACENT TO BARRICADE FENCING FOR ACCESS TO THE MAIN BUILDING.
5. SIDEWALK RAMP CLOSURES FOR RECONSTRUCTION SHALL BE PERFORMED WITH ADA COMPLIANT MOVEABLE BARRICADES. TWO BARRICADES PER PEDESTRIAN APPROACH. ONE SIDEWALK CLOSED SIGN WILL BE PLACED UPON ONE BARRICADE FOR EACH APPROACH, NO MORE THAN ONE 5' SECTION OF SIDEWALK RAMP SHALL BE CLOSED LEADING TO THE MAIN BUILDING AT ANY TIME ADJACENT TO THE WORK AREA.

Diagram illustrating the installation of Orange Plastic Safety Fence. The fence is supported by T-posts, with a maximum spacing of 6 feet between them. The fence is shown installed on a foundation, with a note indicating that the orange plastic should be placed up-right.

Labels in the diagram include:

- ORANGE PLASTIC SAFETY FENCE
- 6' MAX. T-POST SPACING
- 6' T-POST
- 6' T-POST

Text on the right side of the diagram:

NO DIRECT
PLASTIC SA
BARRICADE
SUPPORTED
FOUNDATION
THE FENCE
UP-RIGHT P

NOTE:
ORANGE PL

The diagram illustrates four corner configurations for a street intersection, each featuring a '60' speed limit sign and a 'SIDEWALK' label. The corners are defined by solid and dashed lines representing the road and sidewalk boundaries. Arrows indicate traffic flow directions.

- Top Left Corner:** A '60' speed limit sign is positioned on the sidewalk. A 'SIDEWALK' label is present. Arrows indicate traffic flow.
- Top Right Corner:** A '60' speed limit sign is positioned on the sidewalk. A 'SIDEWALK' label is present. Arrows indicate traffic flow.
- Bottom Left Corner:** A '60' speed limit sign is positioned on the sidewalk. A 'SIDEWALK' label is present. Arrows indicate traffic flow.
- Bottom Right Corner:** A '60' speed limit sign is positioned on the sidewalk. A 'SIDEWALK' label is present. Arrows indicate traffic flow.

34" - 38"

6' MIN.

SIDEWALK CLOSED

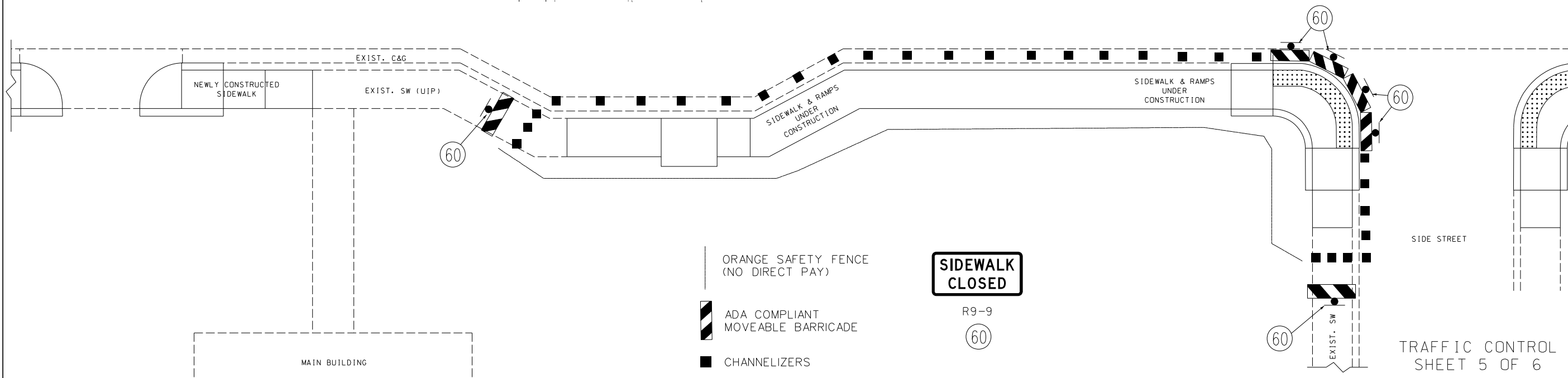
R9-9

CONTINUOUS SMOOTH RAIL FOR HAND TRAILING

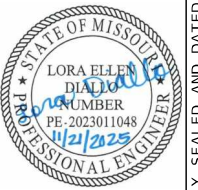
DETECTABLE EDGE

2" MAX. FROM TREAD

1. WARNING LIGHTS SHALL NOT BE ATTACHED TO ADA COMPLIANT BARRICADES.
2. CHEVRON RAILS ON THE ADA COMPLIANT BARRICADES MUST BE 8" WIDE MIN. AND MEET TYPE 3 RETRO-REFLECTIVE SHEETING AND COLOR CONTRAST BARRICADE RAILS AS SHOWN. THE TOP RAIL MUST PROVIDE A SMOOTH CONTINUOUS RAIL SURFACE SUITABLE FOR HAND TRAILING WITH NO SPLINTERS, BURRS, OR SHARP EDGES. A MINIMUM OF TWO 8" WIDE RAILS IS REQUIRED.
3. NO TRIPPING HAZARDS FROM THE BARRICADES ARE ALLOWED WITHIN THE PEDESTRIAN SPACE. THIS MEANS NO FEET OR BARS USED TO HOLD THE RAILS OR SUPPORT THE DEVICE ARE ALLOWED WITHIN THE WALKWAY. ALL FEET AND BALLASTS WILL NEED TO BE BEHIND THE DEVICE.
4. THE BARRICADE MUST BE THE FULL WIDTH OF THE CLOSED SIDEWALK.



TRAFFIC CONTROL
SHEET 5 OF 6



ROUTE VAR.	STATE MO
DISTRICT NE	SHEET NO. 34

COUNTY
ADAIR
JOB NO.
JNE0198
CONTRACT ID.

BRIDGE NO.

[illegible]MISSOURI HIGHWAYS AND TRANSPORTATION
COMMISSION

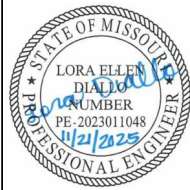
105 WEST CAPITAL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

Kimley»Horn
KIMLEY-HORN AND ASSOCIATES, INC.
805 PENNSYLVANIA AVENUE, SUITE 150
KANSAS CITY, MO 64105
PHONE: 816-652-0350
WWW.KIMLEY-HORN.COM

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

TYPICAL TRAFFIC CONTROL FOR SIDE STREET CLOSURES

DRAWING NOT TO SCALE



DATE PREPARED 11/20/2025	
ROUTE VAR.	STATE MO
DISTRICT NE	SHEET NO. 35
COUNTY ADAIR	
JOB NO. JNE0198	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

DESCRIPTION	DATE

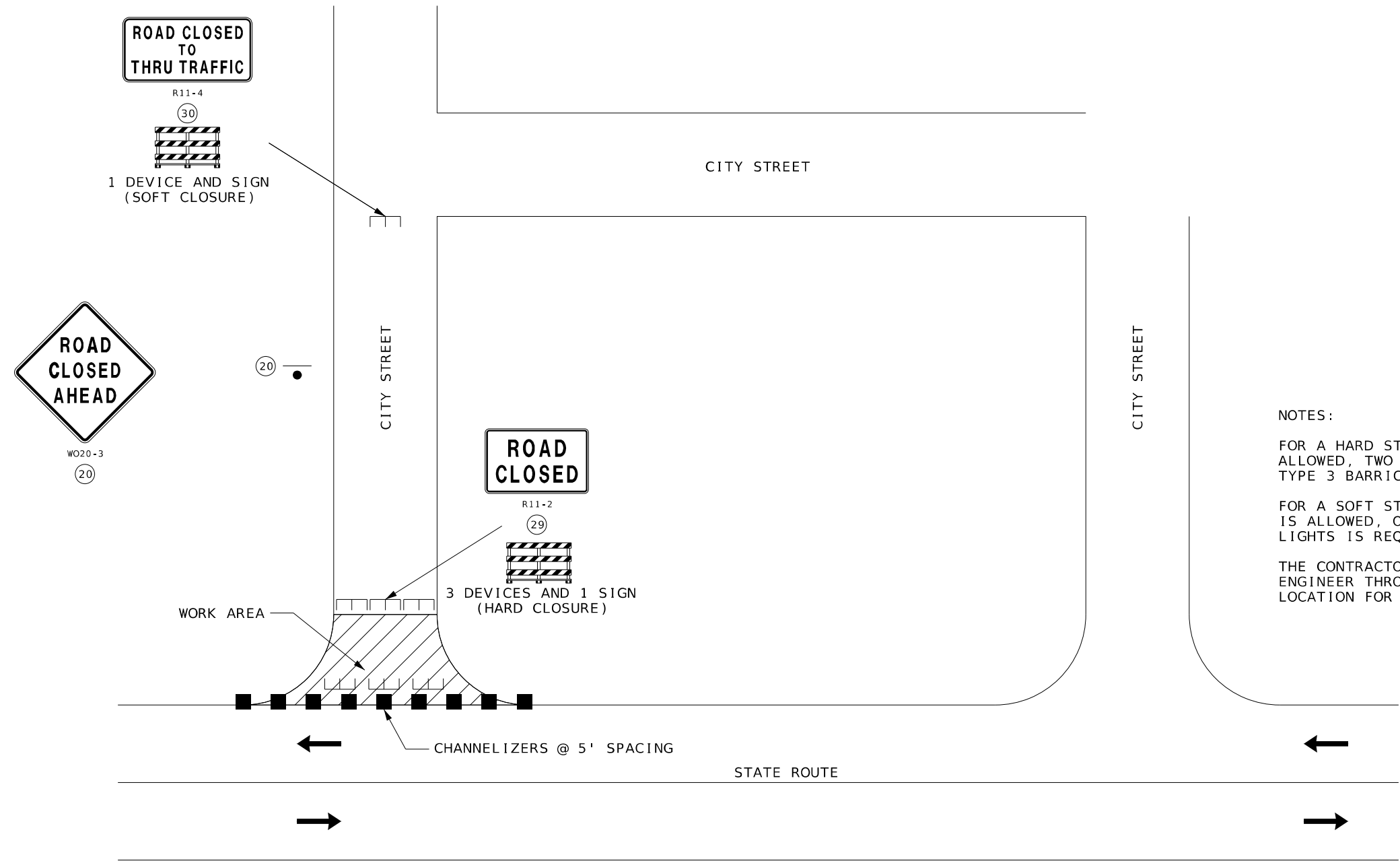
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

MoDOT

105 WEST CAPITOL
JEFFERSON CITY, MO 65102
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KANSAS CITY, MO 64105
PHONE: 816-652-0350
WWW.KIMLEY-HORN.COM



NOTES:

FOR A HARD STREET CLOSURE WHERE NO TRAFFIC IS ALLOWED, TWO (2) TYPE 3 BARRICADES AND ONE (1) TYPE 3 BARRICADE WITH LIGHTS ARE REQUIRED.

FOR A SOFT STREET CLOSURE WHERE LOCAL TRAFFIC IS ALLOWED, ONE (1) TYPE 3 BARRICADE WITH LIGHTS IS REQUIRED.

THE CONTRACTOR SHALL COORDINATE WITH THE ENGINEER THROUGHOUT CONSTRUCTION TO DETERMINE LOCATION FOR SOFT CLOSURES.

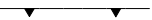
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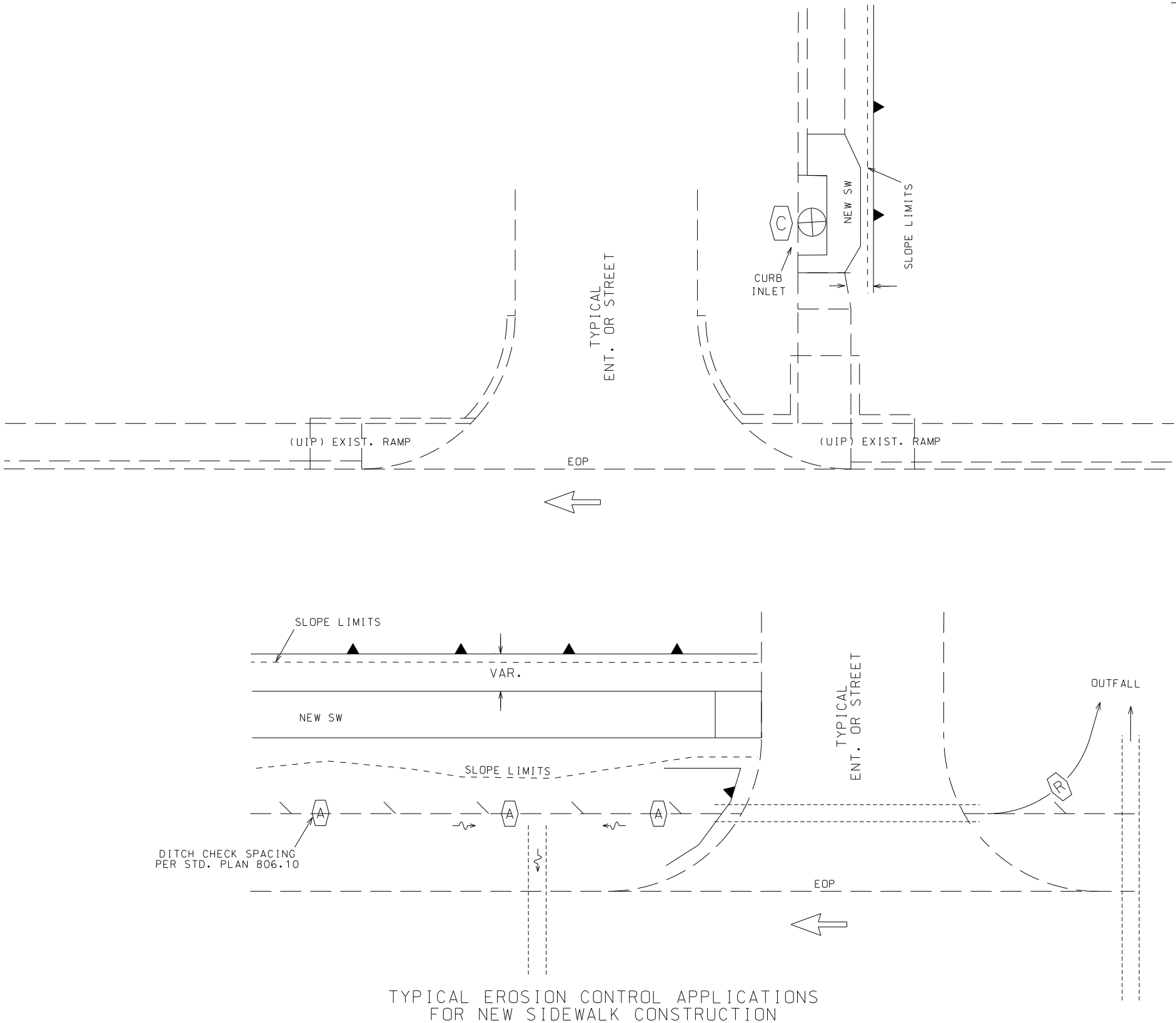
IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

NOTES:

- (1) SILT FENCE SHALL BE PLACED IN ALL GRASSY OR OTHER AREAS AS APPROVED BY THE ENGINEER. THE SILT FENCE SHALL BE LOCATED WITHIN THE R.O.W., EXCEPT AS NEEDED WHERE RIGHT-OF-ENTRY HAS BEEN ACQUIRED, OR AT LOCATIONS APPROVED BY THE ENGINEER.
- (2) ALTERNATIVES TO SILT FENCE MAY BE USED ONLY WITH APPROVAL OF THE ENGINEER.
- (3) FOR DETAILS OF TEMPORARY EROSION CONTROL, SEE STANDARD PLAN 806.10.

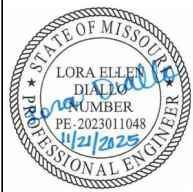
TEMPORARY EROSION CONTROL LEGEND

-  CURB INLET CHECK
-  ALTERNATE CHECK
-  ROCK DITCH CHECK
-  SILT FENCE



NOT TO SCALE

TYPICAL EROSION CONTROL APPLICATIONS
FOR NEW SIDEWALK CONSTRUCTION



DATE PREPARED 11/20/2025	
ROUTE VAR.	STATE MO
DISTRICT NE	SHEET NO. 36
COUNTY ADAIR	
JOB NO. JNE0198	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

MoDOT

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

Kimley»Horn

KIMLEY-HORN AND ASSOCIATES, INC.
805 PENNSYLVANIA AVENUE, SUITE 150
KANSAS CITY, MO 64105
PHONE: 816-652-0350
WWW.KIMLEY-HORN.COM

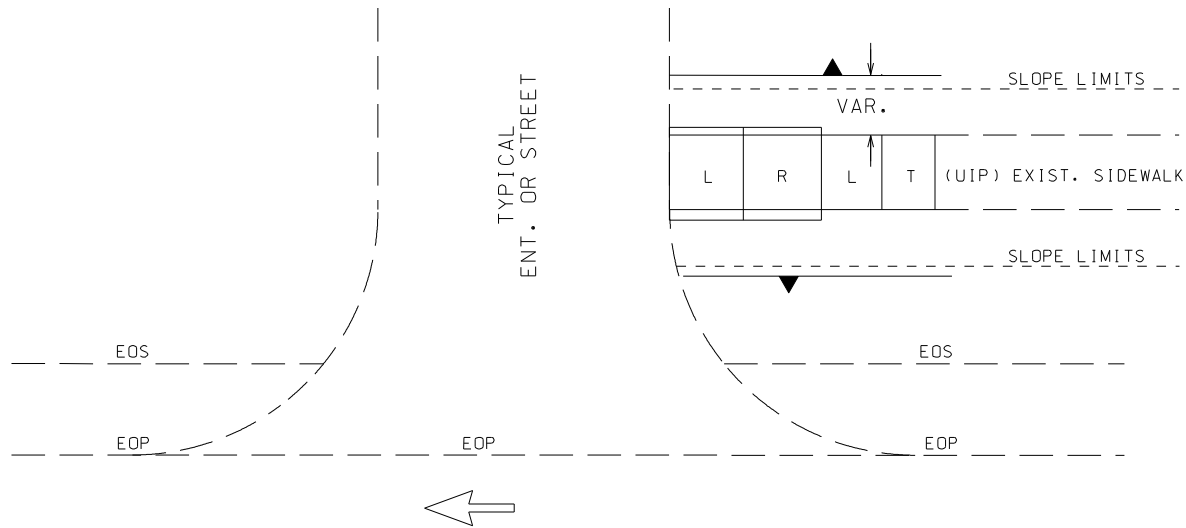
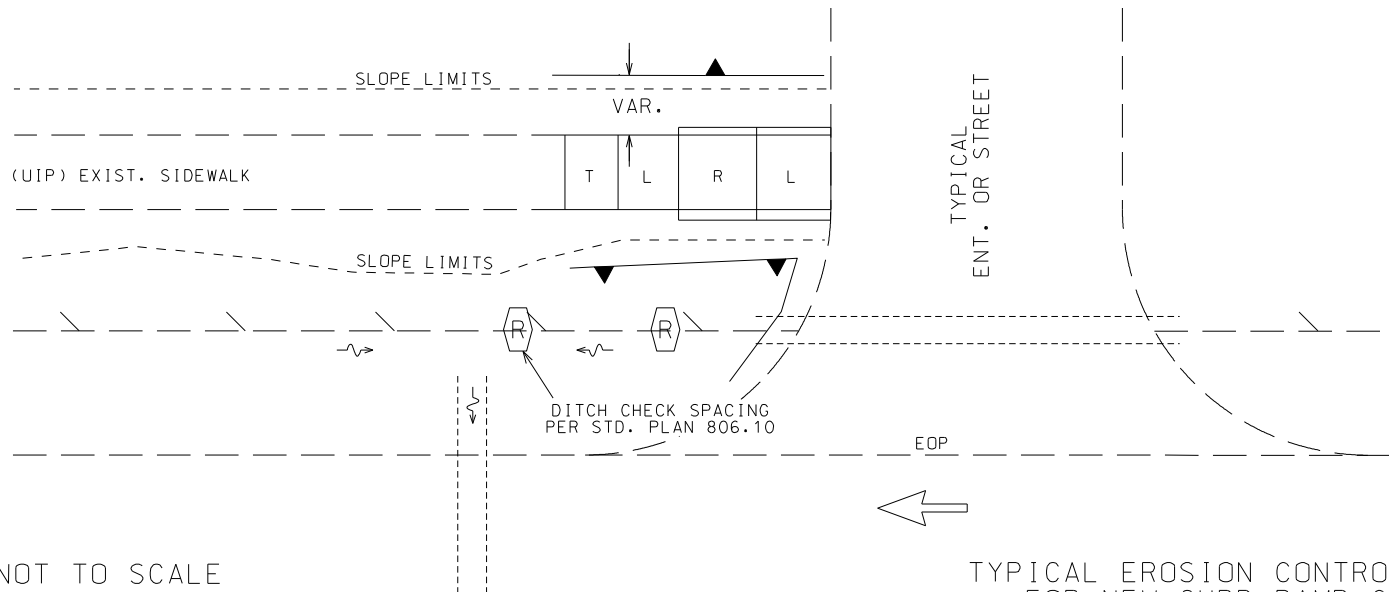
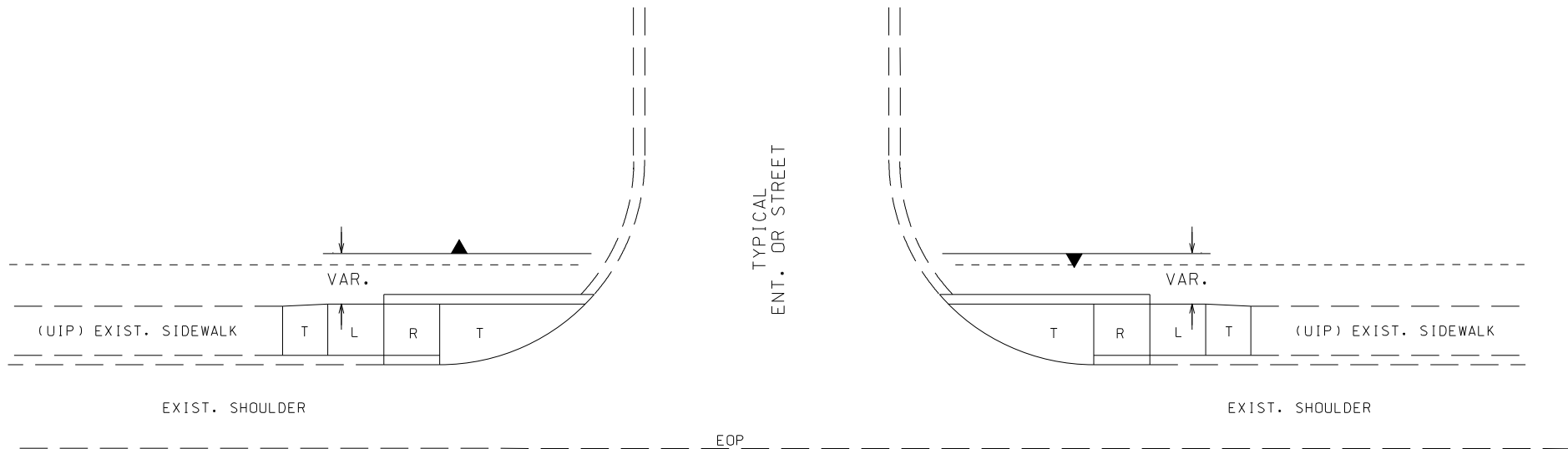
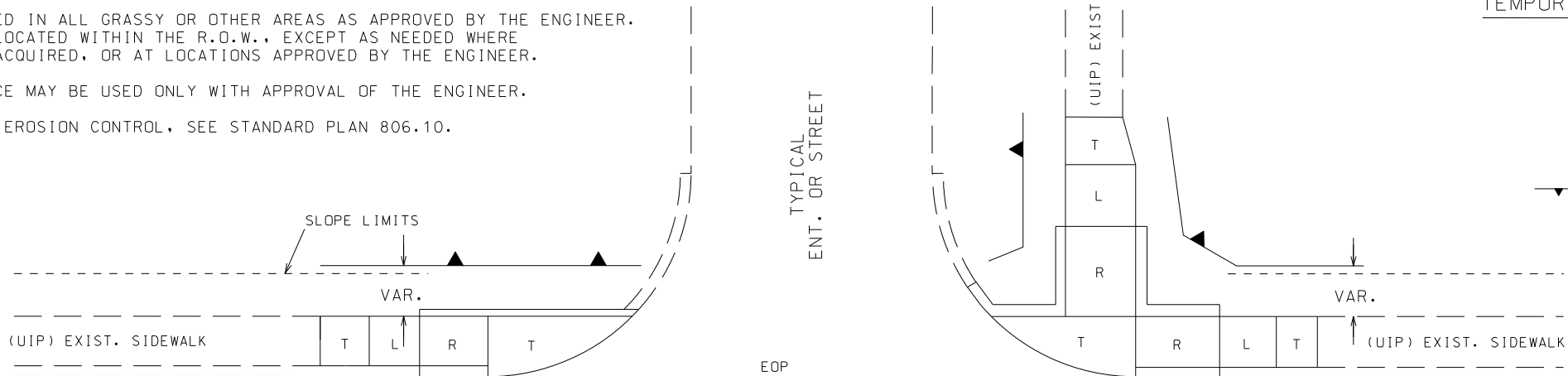
IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

NOTES:

- (1) SILT FENCE SHALL BE PLACED IN ALL GRASSY OR OTHER AREAS AS APPROVED BY THE ENGINEER. THE SILT FENCE SHALL BE LOCATED WITHIN THE R.O.W., EXCEPT AS NEEDED WHERE RIGHT-OF-ENTRY HAS BEEN ACQUIRED, OR AT LOCATIONS APPROVED BY THE ENGINEER.
- (2) ALTERNATIVES TO SILT FENCE MAY BE USED ONLY WITH APPROVAL OF THE ENGINEER.
- (3) FOR DETAILS OF TEMPORARY EROSION CONTROL, SEE STANDARD PLAN 806.10.

TEMPORARY EROSION CONTROL LEGEND

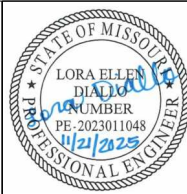
- (C) CURB INLET CHECK
- (A) ALTERNATE CHECK
- (R) ROCK DITCH CHECK
- ▽ SILT FENCE



NOT TO SCALE

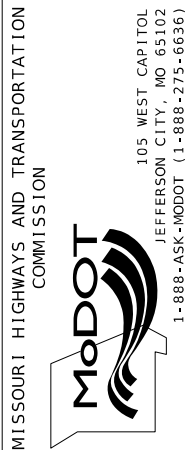
TYPICAL EROSION CONTROL APPLICATIONS
FOR NEW CURB RAMP CONSTRUCTION

EROSION CONTROL SHEET
SHEET 2 OF 2



DATE PREPARED 11/20/2025	
ROUTE VAR.	STATE MO
DISTRICT NE	SHEET NO. 37
COUNTY ADAIR	
JOB NO. JNE0198	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

DATE	DESCRIPTION



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