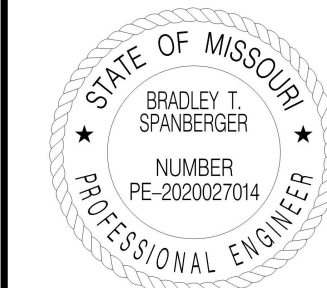


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 MO

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JOB NO.
 JCD0111

CONTRACT ID.

BRIDGE NO.

DESCRIPTION

DATE

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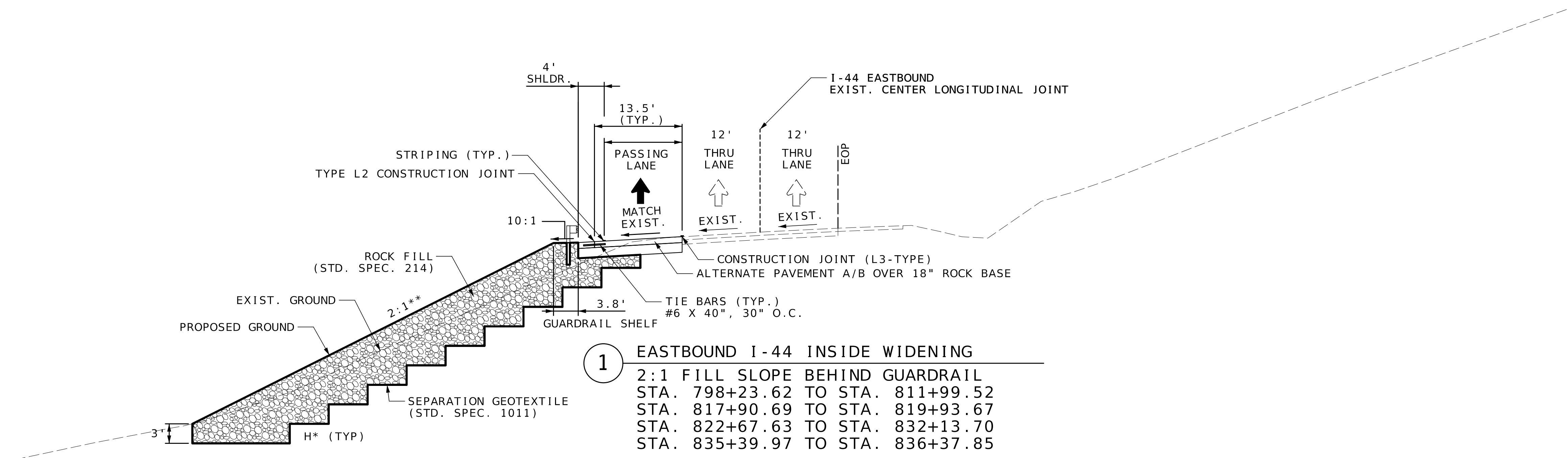
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ALTERNATE PAVEMENT DESIGNS				SHOULDERS
LOCATION	BASE TYPE	ALTERNATE A	ALTERNATE B	
ALL ROUTES	18" ROCK BASE	14" HMA 2" SP125BSM W/ PG76-22 OVER 2" SP125B W/ PG76-22 OVER 10" SP250C W/ PG64-22	11" PCCP 15 FT JOINTS, 1 1/2" DOWELS, 13.5' SLAB	FULL DEPTH

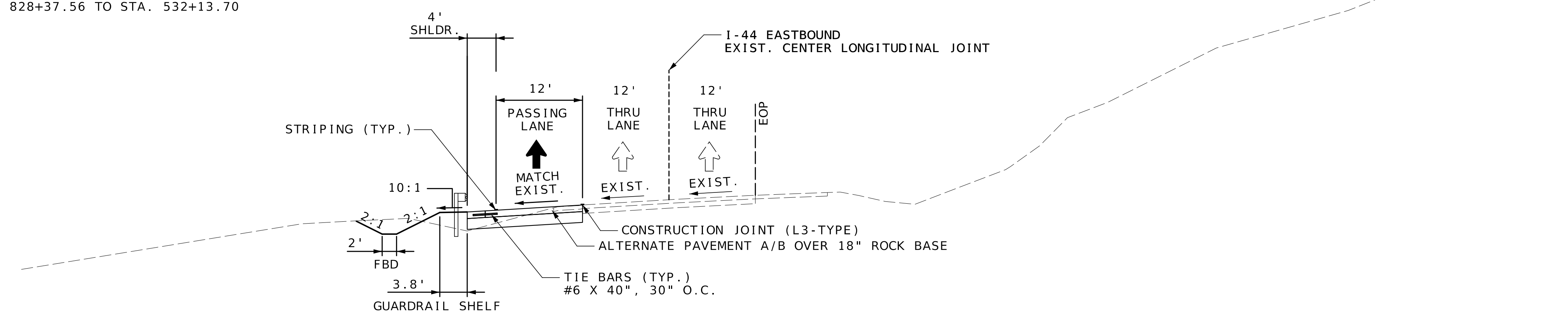
HMA ESTIMATE FACTORS:
 PG76-22 (SP125BSM) = 1.927 TONS/CY
 PG76-22 (SP125B) = 1.927 TONS/CY
 PG64-22 (SP250C) = 1.946 TONS/CY

- NOTES:
- THE EXISTING LONGITUDINAL JOINTS SITUATED ALONG THE CENTER OF THE I-44 WESTBOUND AND EASTBOUND LANES, AS WELL AS THE EDGE-OF-PAVEMENT JOINTS, DO NOT FOLLOW ANY OFFSET OF THE EXISTING CENTERLINE. THE CENTERLINE LONGITUDINAL JOINT MEANDERS LEFT AND RIGHT OF THE STATIONING CENTERLINE. FOR THIS REASON, THE EXISTING EDGE OF PAVEMENT AND EDGE OF SHOULDERS SHALL BE USED AS THE REFERENCE FOR IMPROVEMENTS, UNLESS NOTED OTHERWISE.
 - IN THE CONCRETE PAVEMENT ALTERNATIVE, ALL TIE BARS SHALL BE CONSIDERED INCIDENTAL TO THE PAVEMENT PAY ITEM.
 - TIE-BARS AND L-2 CONSTRUCTION JOINT ARE SHOWN IN THE TYPICAL SECTIONS FOR INFORMATIONAL PURPOSES ONLY, FOR IF THE CONTRACTOR USES ALTERNATE PAVEMENT B.



1 EASTBOUND I-44 INSIDE WIDENING
 2:1 FILL SLOPE BEHIND GUARDRAIL
 STA. 798+23.62 TO STA. 811+99.52
 STA. 817+90.69 TO STA. 819+93.67
 STA. 822+67.63 TO STA. 832+13.70
 STA. 835+39.97 TO STA. 836+37.85

*BENCHING HEIGHT (H) SHALL BE
 3' MINIMUM TO 10' MAXIMUM
 **SLOPE VARIES FROM 1.8 TO 2.1
 FROM STA. 832+52.21 TO STA. 833+03.41
 AND FROM STA. 828+37.56 TO STA. 532+13.70



2 EASTBOUND I-44 INSIDE WIDENING
 2:1 DITCH SLOPES BEHIND GUARDRAIL
 STA. 811+99.52 TO STA. 817+90.69
 STA. 819+93.67 TO STA. 822+67.63
 STA. 832+13.70 TO STA. 833+03.41

TYPICAL SECTION SHEET
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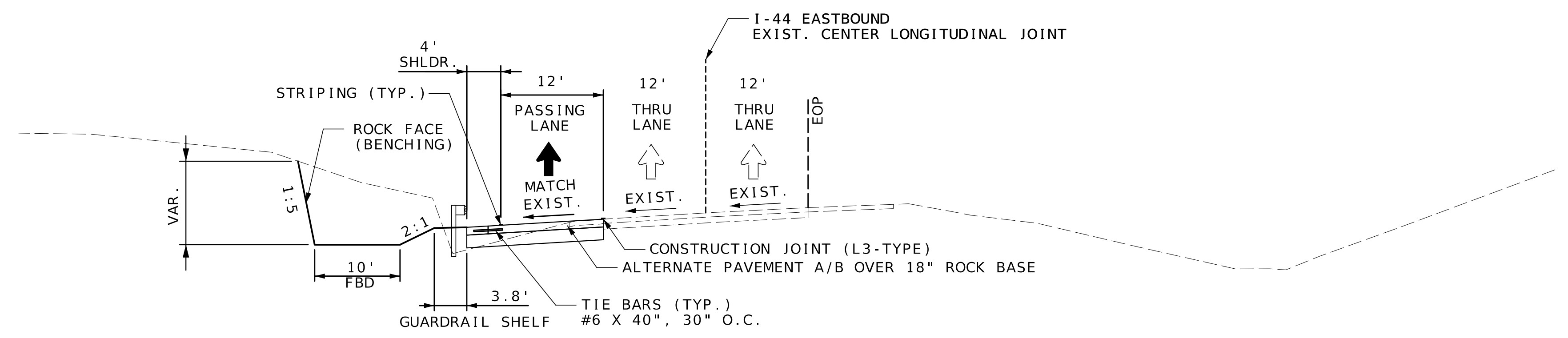
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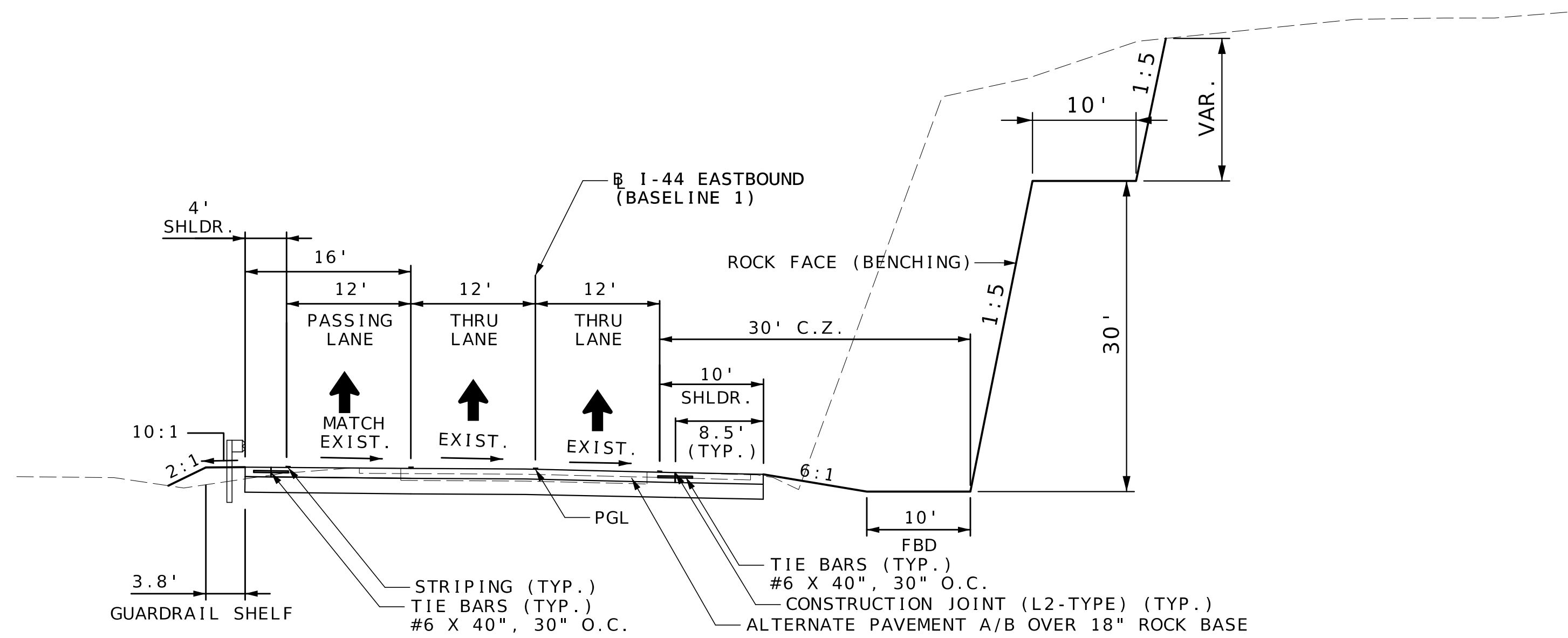
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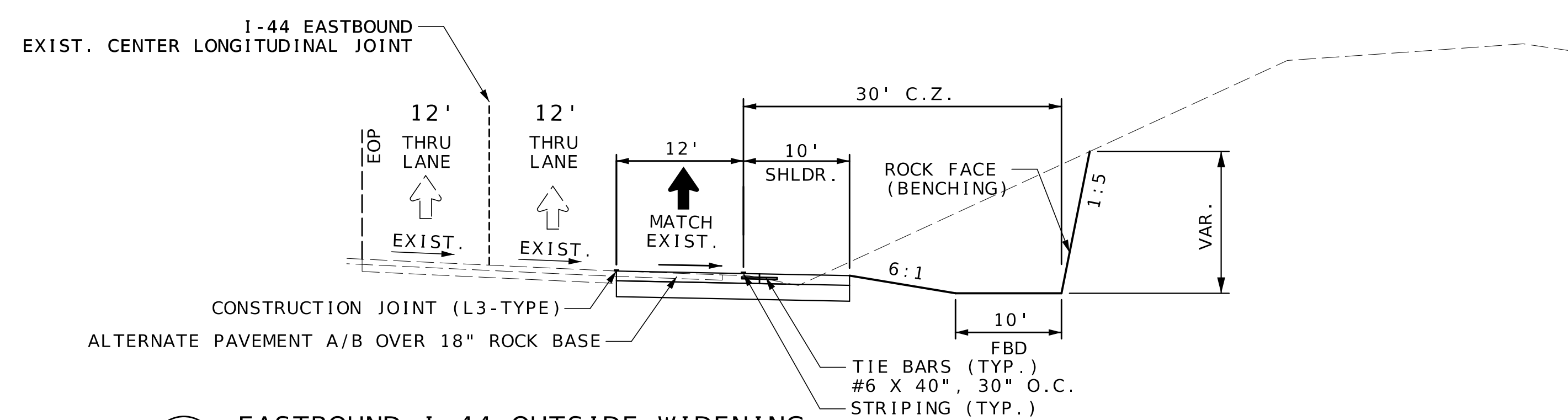
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3 EASTBOUND I-44 INSIDE WIDENING
 GUARDRAIL WITH ROCK CUT
 STA. 833+03.41 TO STA. 835+39.97



4 EASTBOUND I-44 OUTSIDE WIDENING
 WIDENING CROSSOVER
 STA. 836+37.85 TO STA. 839+96.09



5 EASTBOUND I-44 OUTSIDE WIDENING
 ROCK CUT
 STA. 839+96.09 TO STA. 841+94.25
 STA. 842+78.58 TO STA. 845+47.85

TYPICAL SECTION SHEET
 2 OF 4

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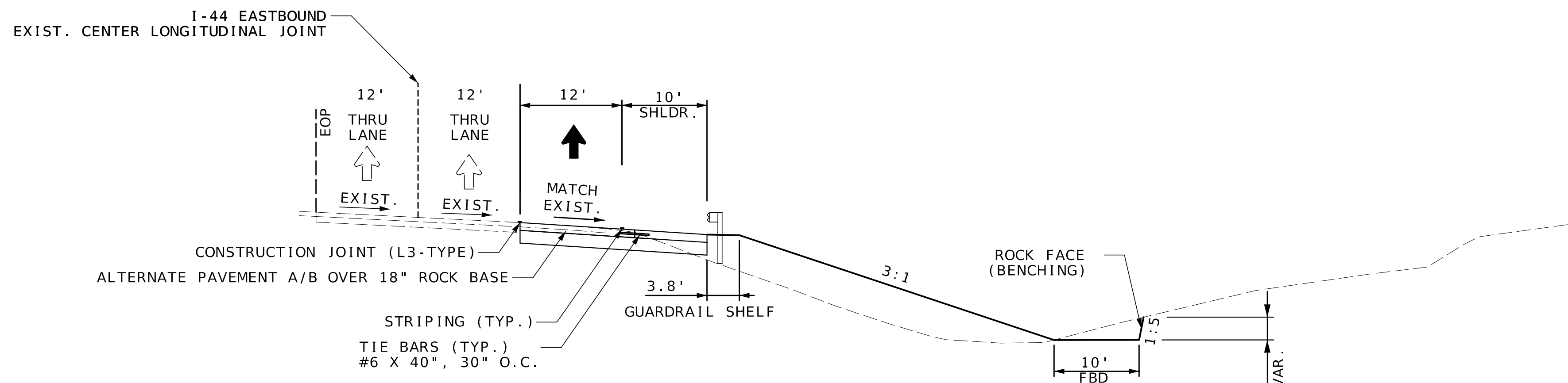
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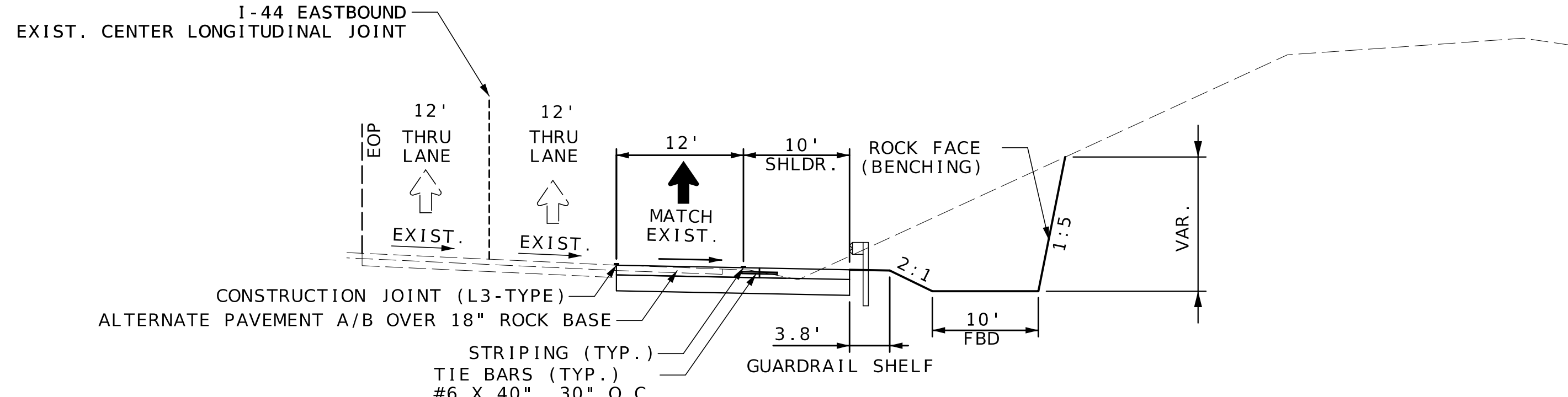
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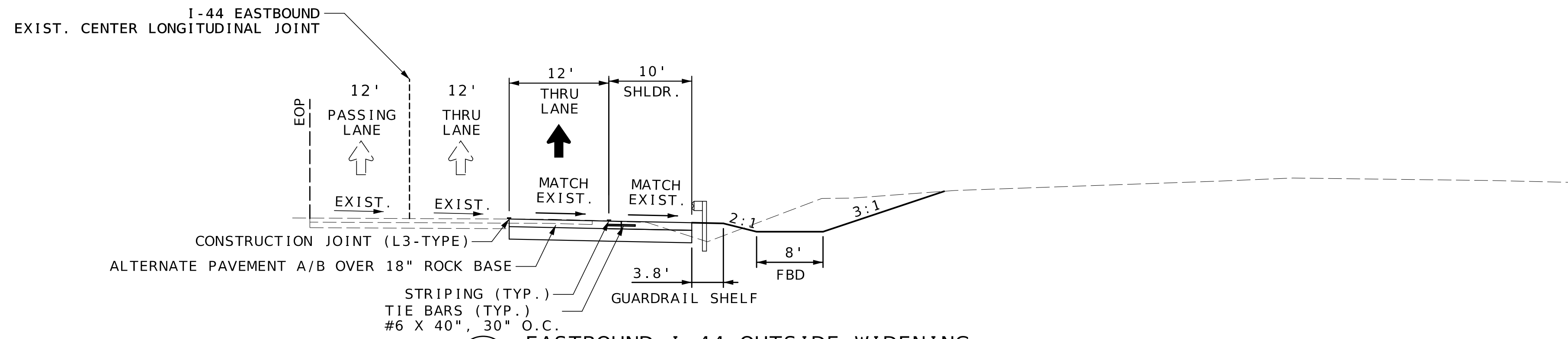
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6 EASTBOUND I-44 OUTSIDE WIDENING
 3:1 FILL SLOPES
 STA. 841+94.25 TO STA. 842+78.58



7 EASTBOUND I-44 OUTSIDE WIDENING
 GUARDRAIL WITH ROCK CUT
 STA. 845+47.85 TO STA. 848+29.41
 STA. 850+90.18 TO STA. 853+23.64



8 EASTBOUND I-44 OUTSIDE WIDENING
 WITH OFF-RAMP
 STA. 848+29.41 TO STA. 850+90.18

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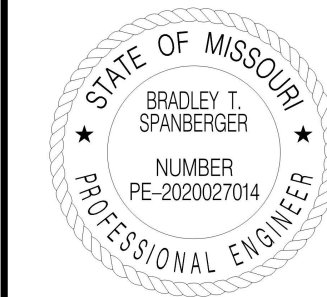
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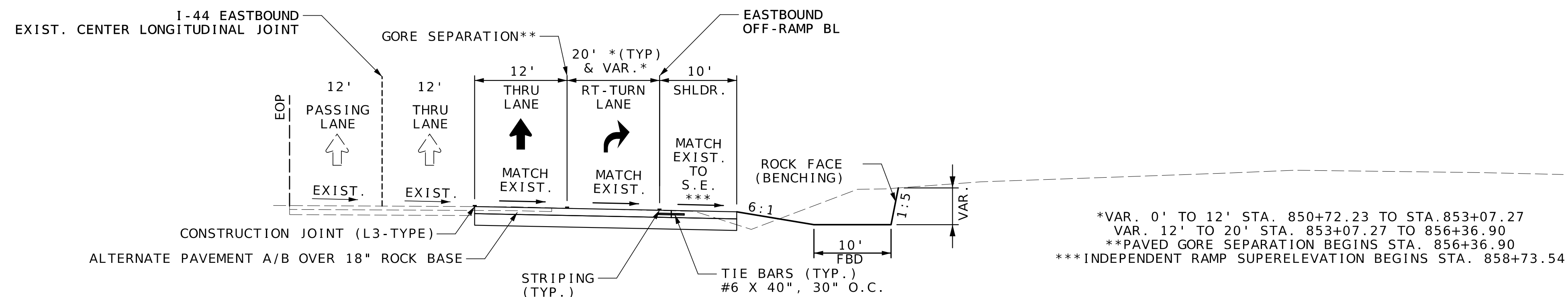
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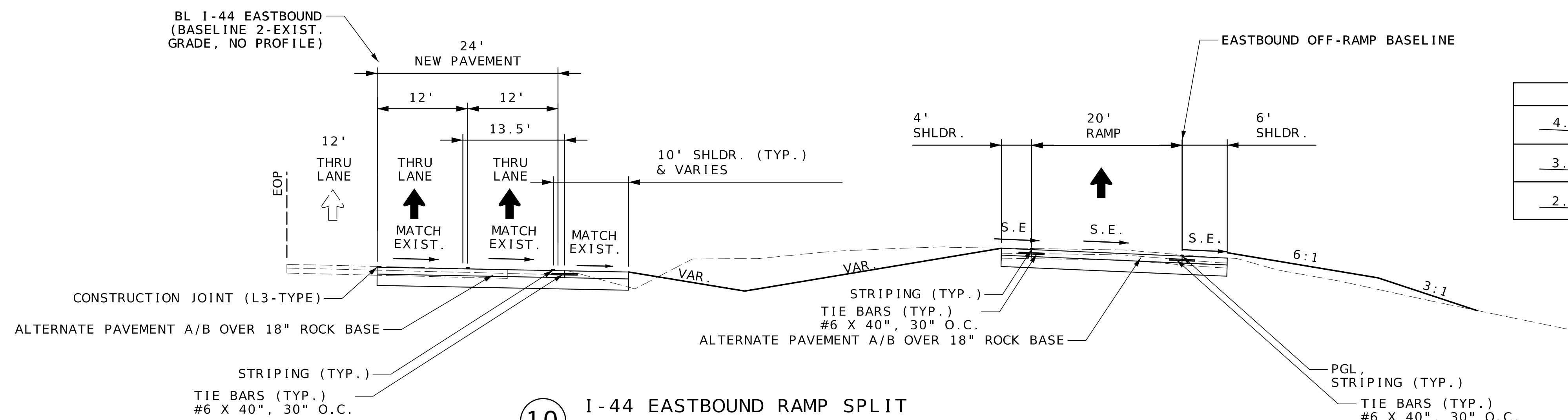
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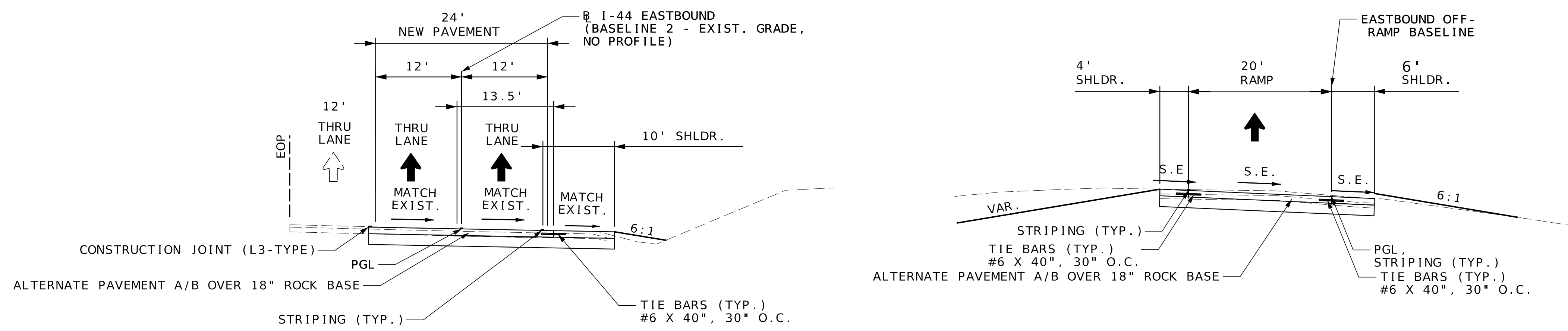
*VAR. 0' TO 12' STA. 850+72.23 TO STA. 853+07.27
 VAR. 12' TO 20' STA. 853+07.27 TO 856+36.90
 **PAVED GORE SEPARATION BEGINS STA. 856+36.90
 ***INDEPENDENT RAMP SUPERELEVATION BEGINS STA. 858+73.54

9 EASTBOUND I-44 OUTSIDE WIDENING
 4:1 DITCH SLOPE BEHIND GUARDRAIL
 STA. 853+23.64 TO STA. 861+70.03



RAMP SUPERELEVATION	
4.2%	STA. 858+73.54 TO STA. 861+70.07
3.1%	STA. 862+28.61
2.0%	STA. 862+79.15

10 I-44 EASTBOUND RAMP SPLIT
 6:1 V-DITCH
 STA. 861+70.03 TO STA. 863+13.68



OFF-RAMP SUPERELEVATION	
2.0%	STA. 23+54.79 TO STA. 28+51.05
3.5%	STA. 24+14.79 TO STA. 27+91.05
5.0%	STA. 24+74.79 TO STA. 27+31.05

11 I-44 EASTBOUND TRANSITION TO EXISTING
 6:1 OUTSIDE FILL
 STA. 863+13.68 TO STA. 871+94.60

12 EASTBOUND OFF-RAMP
 6:1 OUTSIDE FILL
 STA. 22+42.66 TO STA. 27+91.05

TYPICAL SECTION SHEET
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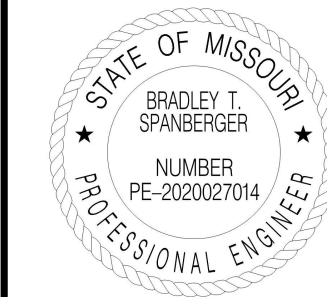
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PAVEMENT (ALTERNATE A)									
PLAN SHEET	FROM STATION	TO STATION	BASELINE	LOCATION	2 INCHES, ASPHALTIC CONCRETE MIXTURE PG 76-22 (SP125BSM MIX) (SQYD)	2 INCHES, ASPHALTIC CONCRETE MIXTURE PG 76-22 (SP125B MIX) (SQYD)	10 INCHES, ASPHALTIC CONCRETE MIXTURE PG 64-22 (SP250C MIX) (SQYD)	REMARKS	
1 TO 5	798+23.62	836+38.78	EX. I-44 EB	LT	6,569.2	6,569.2	6,569.2		
5	836+38.78	839+96.14	EX. I-44 EB	LT & RT	1,999.4	1,999.4	1,999.4		
5 TO 6	839+96.14	860+17.17	EX. I-44 EB	RT	4,344.7	4,344.7	4,344.7	INCLUDES MAINLINE & RAMP TAPER PAVEMENT + SHOULDER	
6 TO 7	860+17.17	871+94.85	EX. I-44 EB	RT	3,999.7	3,999.7	3,999.7		
7	866+70.18	871+94.85	EX. I-44 EB	LT	170.2	170.2	170.2		
6 TO 7	12+49.94	28+51.05	EB OFF-RAMP	LT & RT	5,649.4	5,649.4	5,649.4	INCLUDE RAMP & GORE PAVEMENT + SHOULDER	
TOTALS					22,732.6	22,732.6	22,732.6		

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PAVEMENT (ALTERNATE B)						
PLAN SHEET	FROM STATION	TO STATION	BASELINE	LOCATION	CONCRETE PAVEMENT (11 IN. NON-REINFORCED 15 FT. JOINTS) (SQYD)	REMARKS
1 TO 5	798+23.62	836+38.78	EXIST. INTERSTATE 44 EASTBOUND	LT	6,569.2	
5	836+38.78	839+96.14	EXIST. INTERSTATE 44 EASTBOUND	LT & RT	1,999.4	
5 TO 6	839+96.14	860+17.17	EXIST. INTERSTATE 44 EASTBOUND	RT	4,344.7	INCLUDES MAINLINE & RAMP TAPER PAVEMENT + SHOULDER
6 TO 7	860+17.17	871+94.85	EXIST. INTERSTATE 44 EASTBOUND	RT	3,999.7	
7	866+70.18	871+94.85	EXIST. INTERSTATE 44 EASTBOUND	LT	170.2	
6 TO 7	12+49.94	28+51.05	EB OFF-RAMP	LT & RT	5,649.4	INCLUDE RAMP & GORE PAVEMENT + SHOULDER
TOTALS					22,732.6	

PAVEMENT BASE						
PLAN SHEET	FROM STATION	TO STATION	BASELINE	LOCATION	PLACING ROCK BASE (SQYD)	REMARKS
1 TO 5	798+23.62	836+38.78	EXIST. INTERSTATE 44 EASTBOUND	LT	6,569	
5	836+38.78	839+96.14	EXIST. INTERSTATE 44 EASTBOUND	LT & RT	1,999	
5 TO 6	839+96.14	860+17.17	EXIST. INTERSTATE 44 EASTBOUND	RT	4,345	INCLUDES MAINLINE & RAMP TAPER PAVEMENT + SHOULDER
6 TO 7	860+17.17	871+94.85	EXIST. INTERSTATE 44 EASTBOUND	RT	4,000	
7	866+70.18	871+94.85	EXIST. INTERSTATE 44 EASTBOUND	LT	170	
6 TO 7	12+49.94	28+51.05	EB OFF-RAMP	LT & RT	5,649	INCLUDE RAMP & GORE PAVEMENT + SHOULDER
TOTALS					22,732	ROCK BASE SHALL BE 18" THICK

EXCAVATION AND FILL										
PLAN SHEET	FROM STATION	TO STATION	BASELINE	LOCATION	CLASS C EXCAVATION (CUYD)	UNCLASSIFIED EXCAVATION (CUYD)	COMPACTING EMBANKMENT (CUYD)	PLACING ROCK FILL (CUYD)	SEPARATION GEOTEXTILE (SQYD)	REMARKS
1 TO 4	798+23.62	836+00.00	EXIST. INTERSTATE 44 EASTBOUND	LT		24,853		29,147	13,100	
4 TO 5	836+00.00	840+00.00	EXIST. INTERSTATE 44 EASTBOUND	LT & RT		1,013	69			
5 TO 7	840+00.00	871+94.60	EXIST. INTERSTATE 44 EASTBOUND	RT		10,402	5,091			
4	833+00.00	835+50.00	EXIST. INTERSTATE 44 EASTBOUND	LT	604					
5	836+37.85	848+50.00	EXIST. INTERSTATE 44 EASTBOUND	RT	13,619					
6 TO 7	851+00.00	862+00.00	EXIST. INTERSTATE 44 EASTBOUND	RT	21,114					
TOTALS					35,337	36,268	5,160	29,147	13,100	SEE NOTES

(1) NOTE: NO SEPARATE PAYMENT FOR FURNISHING ROCK FILL, ROCK BASE, OR ROCK BLANKET. SEE STD. SPECIFICATIONS

(2) NOTE: ALL CLASS C EXCAVATION SHALL BE UTILIZED TO FURNISH ROCK FOR ROCK FILL, ROCK BASE, AND ROCK BLANKET. THE REMAINING ROCK NEEDED SHALL BE FURNISHED FROM THE JCD0112 JOB AND SHALL BE CONSIDERED INCIDENTAL TO THE RESPECTIVE "PLACING" PAY ITEMS FOR ROCK. SEE BELOW FOR BREAKDOWN:

35,337 CUYD CLASS C EXCAVATION (JCD0111)
29,147 REQUIRED CUYD FOR "ROCK FILL"
11,366 REQUIRED CUYD FOR "ROCK BASE"
601 REQUIRED CUYD FOR "ROCK BLANKET"
5,777 CUYD REMAINDER, ACQUIRED FROM JCD0112 (INCIDENTAL)

SUMMARY OF QUANTITIES
SHEET 2 OF 7

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ROCK BLANKET						
PLAN SHEET	FROM STATION	TO STATION	BASELINE	LOCATION	PLACING TYPE 1 ROCK BLANKET (CUYD)	REMARKS
5	842+10.00	842+80.00	EX. I-44 EB	RT	96	
5 TO 6	848+05.00	850+90.00	EX. I-44 EB	RT	505	
				TOTALS	601	

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ITS												
ITS SHEET	FROM STATION	TO STATION	BASELINE	LOCATION	PULL BOX, PREFORMED CLASS 1 (EACH)	ITS PULL BOX WITH CONCRETE PAD, PREFORMED CLASS 2 (EACH)	INTERCEPTING CONDUIT OR CABLE-CONDUIT WITH PULL BOX (EACH)	CCTV POLE FOUNDATION, 45 FT OR 13.7M MOUNTING HEIGHT, INSTALLED (EACH)	CCTV POLE, 45 FT 45 FT OR 13.7M MOUNTING HEIGHT, INSTALLED (EACH)	CABLE-CONDUIT, 1 IN., 2 CONDUCTORS AND 1 BARE NEUTRAL 6 AWG (LF)	CONDUIT, 3 IN. RIGID, IN TRENCH (LF)	REMARKS
1	798+24.75		EX. I-44 EB	25.00' LT	1							PULL BOX I1
1	798+24.75	803+19.46	EX. I-44 EB	LT						497		PULL BOX I1 TO PULL BOX I2
1	803+19.46		EX. I-44 EB	41.25' LT	1							PULL BOX I2
1	803+19.46	807+70.41	EX. I-44 EB	LT						443		PULL BOX I2 TO PULL BOX I3
1	807+70.41		EX. I-44 EB	45.5' LT		1		1				PULL BOX I3
1	807+70.41	807+77.97	EX. I-44 EB	LT						30	12	PULL BOX I3 TO PROPOSED CAMERA LOCATION
1	807+77.97		EX. I-44 EB	35.00' LT				1	1			WITH CAMERA RAISING/LOWERING EQUIPMENT
				SUBTOTALS	2	-	-	-	-	970	12	FOR LIGHTING TABLES
				TOTALS	-	1	2	1	1	-	-	

LIGHTING POLES AND PULL BOXES									
LIGHTING SHEET	STATION	BASELINE	LOCATION	LIGHTING POLE, 45 FT. OR 13.5 M, TYPE AT DESIGN 2 (EACH)	BRACKET ARM, 12 FT. OR 3.6 M (EACH)	LUMINAIRE, LED-B (EACH)	POLE FOUNDATION (45 FT. OR 13.5 M MOUNTING HEIGHT) (EACH)	PULL BOX, PREFORMED CLASS 1 (EACH)	REMARKS
1	866+24.88	EXIST. INTERSTATE 44 EASTBOUND	40.86' RT					1	PULL BOX A1
1	863+23.86	EXIST. INTERSTATE 44 EASTBOUND	39.56' RT	1	1	1	1	1	LIGHT POLE A101
1	863+24.03	EXIST. INTERSTATE 44 EASTBOUND	49.40' RT					1	PULL BOX A2
1	863+21.72	EXIST. INTERSTATE 44 EASTBOUND	88.75' RT					1	PULL BOX A3
1	859+63.54	EXIST. INTERSTATE 44 EASTBOUND	74.69' RT					1	PULL BOX A4
1	855+92.54	EXIST. INTERSTATE 44 EASTBOUND	54.81' RT	1	1	1	1	1	LIGHT POLE A102
			FROM "ITS" TABLE	--	--	--	--	2	
			TOTALS	2	2	2	2	6	

LIGHTING CABLE AND CONDUIT								
LIGHTING SHEET	FROM	TO	CONDUIT, 3 IN. RIGID, IN TRENCH (LF)	CONDUIT, 3 IN. RIGID, PUSHED (LF)	TRENCHING TYPE III (LF)	CABLE, 10 AWG 1 CONDUCTOR, POLE AND BRACKET (LF)	CABLE-CONDUIT, 1 IN., 2 CONDUCTORS AND 1 BARE NEUTRAL, 6 AWG (LF)	REMARKS
1	EXIST. PB	EXIST. PB		158			172	PULL BOX A1
1	PULL BOX A1	PULL BOX A2			295		309	LIGHT POLE A101
1	PULL BOX A2	LIGHT POLE A101			8	114	21	PULL BOX A2
1	PULL BOX A2	PULL BOX A3	33				45	PULL BOX A3
1	PULL BOX A3	PULL BOX A4			352		365	PULL BOX A4
1	PULL BOX A4	LIGHT POLE A102			360	114	374	LIGHT POLE A102
		SUBTOTAL	33	158	1,015	228	1,286	
		5% FOR SNAKING	-	-	-	11	64	
		FROM "ITS" TABLE	12	-	-	-	970	
		TOTALS	45	158	1,015	240	2,320	

SUMMARY OF QUANTITIES
SHEET 3 OF 7

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ROUTE STATE
I-44 MO

DISTRICT SHEET NO.
CD 3

COUNTY
PULASKI

JOB NO.
JCD0111

CONTRACT ID.

BRIDGE NO.

DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION



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

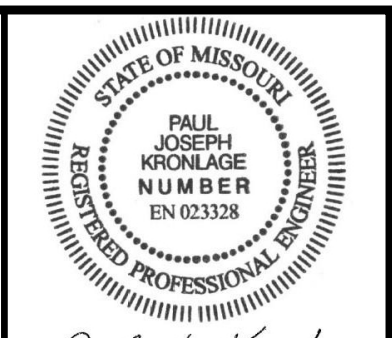


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CLEARING AND GRUBBING						
PLAN SHEET	FROM STATION	TO STATION	BASELINE	LOCATION	CLEARING AND (ACRE)	REMARKS
2	805+88.33	811+25.00	EXIST. INTERSTATE 44 EASTBOUND	LT	0.30	
3	811+25.00	816+27.10	EXIST. INTERSTATE 44 EASTBOUND	LT	0.10	
3	823+50.65	823+75.00	EXIST. INTERSTATE 44 EASTBOUND	LT	0.01	
4	823+75.00	832+15.51	EXIST. INTERSTATE 44 EASTBOUND	LT	1.20	
5	837+25.14	842+03.01	EXIST. INTERSTATE 44 EASTBOUND	RT	0.40	
5	848+01.35	848+75.00	EXIST. INTERSTATE 44 EASTBOUND	RT	0.04	
6	848+75.00	857+68.39	EXIST. INTERSTATE 44 EASTBOUND	RT	0.55	
				TOTALS	2.60	
				USE	3	

ADJUST TO GRADE						
PLAN SHEET	FROM STATION	TO STATION	BASELINE	LOCATION	ADJUSTING BASIN OR INLET (EACH)	REMARKS
4	823+82.00		INTERSTATE 44	LT	1	
				TOTALS	1	

MISCELLANEOUS
MOBILIZATION 1 LUMP SUM - BASIS OF PAYMENT PER MoDOT SPECIFICATIONS
CONTRACTOR FURNISHED SURVEYING AND STAKING 1 LUMP SUM
SAWCUTS FOR REMOVALS INCIDENTAL TO REMOVAL OF IMPROVEMENTS
SIGNING ITEMS SEE SIGNING SHEETS



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 08/10/2024 1:05:01 PM
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DATE PREPARED
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 ROUTE
 I - 44 STATE
 MO
 DISTRICT SHEET NO.
 CD 3
 COUNTY
 PULASKI
 JOB NO.
 JCD0111
 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)

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

EROSION CONTROL									
EROSION CONTROL SHEET NO.	ROADWAY	STA	STA	LOC	ROCK DITCH CHECK	ALTERNATE DITCH CHECK	SILT FENCE	SEDIMENT REMOVAL	REMARKS
					L.F.	L.F.	L.F.	C.Y.	
1	EB LANES I-44	797+00	802+00	LT	0	140	0	10.00	
1	EB LANES I-44	797+00		LT	0	20	0	1.00	
1	EB LANES I-44	802+00	812+00	LT	0	0	1010	10.10	
1	EB LANES I-44	812+00	818+00	LT	126	0	0	9.00	
2	EB LANES I-44	818+40		LT	40	0	0	2.00	
2	EB LANES I-44	819+00	822+00	LT	48	0	0	6.00	
2	EB LANES I-44	823+70		LT	20	0	0	1.00	
2	EB LANES I-44	817+00	845+00	LT	0	0	1580	15.80	
2	EB LANES I-44	830+00	835+50	LT	144	0	0	18.00	
2	EB LANES I-44	832+00	835+00	RT	80	0	0	10.00	
2	EB LANES I-44	836+50	842+450	RT	180	0	0	9.00	
2	EB LANES I-44	842+50		RT	20	0	0	1.00	
2	EB LANES I-44	836+50	845+00	RT	0.00	0.00	850	8.50	
2	EB LANES I-44	843+50	845+00	RT	0	80	0	4.00	
3	EB LANES I-44	845+00	868+60	RT	0	0	2295	22.95	
3	EB LANES I-44	845+50	849+00	RT	200	0	0	10.00	
3	EB LANES I-44	849+00	859+50	RT	700	0	0	35.00	
3	EB LANES I-44	859+50	860+20	RT	0	120	0	6.00	
SUB TOTAL					1558	360	5735	179.35	
PAY TOTAL					1558	360	5735	179	

SEEDING - COOL SEASON GRASSES	2.5 AC
TEMPORARY SEEDING	1.5 AC
MULCHING	4 AC
ADDITIONAL MOBILIZATION FOR SEEDING	2 EA
FLOWABLE BACKFILL	18 CY
CULVERT CLEANOUT	4 EA

PERMANENT PAVEMENT MARKING													
PM & SIGNING SHEET NO.	ROADWAY	STA	STA	LOC	6" YELLOW HIGH BUILD WATERBORNE PAVEMENT MARKING TYPE L BEADS	6" WHITE HIGH BUILD WATERBORNE PAVEMENT MARKING TYPE L BEADS	6" INTERMITTENT WHITE HIGH BUILD WATERBORNE PAVEMENT MARKING TYPE L BEADS	6" DOTTED WHITE HIGH BUILD WATERBORNE PAVEMENT MARKING TYPE L BEADS	12" WHITE HIGH BUILD WATERBORNE PAVEMENT MARKING TYPE L BEADS	24" WHITE THERMOPLASTIC PAVEMENT MARKING	SHOULDER RUMBLE STRIP	MERGE ARROW	REMARKS
					L.F.	L.F.	L.F.	L.F.	L.F.	L.F.	100 FT	EA.	
1	I-44 EB	791+00	818+00	LT/RT	2687	2706	1100						
2	I-44 EB	818+00	845+00	LT/RT	2694	2697	1338						
3	I-44 EB	845+00	873+00	LT/RT	2804	1790	1142	110	1864	167		3	
3	I-44 EB OFF RAMP	855+00	869+25	RT	430	1425							
1-3	I-44 EB	836+00	850+55	RT							15		
1-3	I-44 EB	798+25	840+88	LT							43		
3	I-44 EB	861+70	875+00	RT							13		
SUBTOTAL					8615	8618	3580	110	1864	167	71	3	
PAY TOTAL					8615		12,308		1864	167	71	3	

TEMPORARY TRAFFIC BARRIERS									
TCP SHEET	ROADWAY	STA	STA	LOCATION	TEMPORARY TRAFFIC BARRIER	RELOCATING TEMPORARY TRAFFIC BARRIER	TEMPORARY TRAFFIC BARRIER ANCHORED	TEMPORARY TRAFFIC BARRIER STIFFNESS TRANS. SECTION	REMARKS
					L.F.	L.F.	L.F.	L.F.	
12 & 13	EB LANES I-44	792+00	845+00	CL	3870				STAGE 1
14	EB LANES I-44	819+60	845+00	CL	730				STAGE 2
15	EB LANES I-44	793+00	841+50	CL			670		STAGE 3
16 & 17	EB LANES I-44	835+00	865+00	CL	3000				STAGE 4
18	EB LANES I-44	862+30	872+00	CL	580		170	220	STAGE 5
19	EB LANES I-44	862+00	872+30	CL	450	580			STAGE 6
SUBTOTAL					8630	580	840	220	
PAY TOTAL					8630	580	840	220	

SUMMARY OF QUANTITIES
 SHEET 5 OF 7



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ROUTE STATE
I - 44 MO

DISTRICT SHEET NO.
CD 3

COUNTY
PULASKI

JOB NO.
JCD0111

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)

EFK Moen
Civil Engineering Design
13523 Barrett Parkway Dr
Suite 250
St. Louis, MO 63021
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Missouri Certificate of Authority: 001578

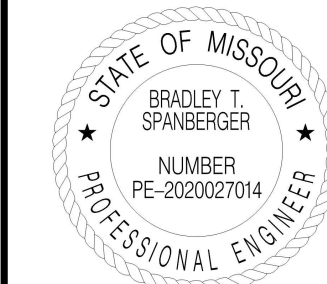
TEMPORARY PAVEMENT MARKING								
TCP SHEET	ROADWAY	STA	STA	LOC	4-INCH TEMPORARY PAVEMENT MARKING PAINT		PAVEMENT MARKING REMOVAL	REMARKS
					YELLOW	WHITE		
					L.F.	L.F.	L.F.	
12-13	I-44	793+00	843+87	EB LANES	5080	10160	11430	STAGE 1
16	I-44	820+00	873+35	EB LANES	5495	10990	7344	STAGE 4
SUBTOTAL					10575	21150	18774	
PAY TOTAL					31725		18774	

DRAINAGE																		
SYSTEM NO.	ROADWAY	STA	LOC	12 IN PIPE GROUP A	15 IN PIPE GROUP A	24 IN PIPE GROUP A	30 IN PIPE GROUP A	PIPE COLLAR TYPE A	ALLOWED SUB. GROUP A FLARED END SECTION				60 IN MANHOLE	MANHOLE FRAME AND COVER TYPE 2	CLASS 3 EXCAVATION	ROCK LINING	PIPE AGGREGATE PAVEMENT CROSS DRAIN	REMARKS
				L.F.	L.F.	L.F.	L.F.		EA.	EA.	EA.	EA.						
				L.F.	L.F.	L.F.	L.F.		EA.	EA.	EA.	EA.						
1	I-44	819+15	LT			13		1			1			3	3			
2	I-44	841+24	RT	17				1	1					4	2			
3	I-44	842+53	RT				10	1			1			6	0		INLET	
4	I-44	843+52	RT	15				1	1					2	3			
5	I-44	848+47	RT		12			1		1				1	2			
6	I-44	848+78	RT				5				1	9	1	5	0		INLET	
7	I-44	857+03	RT		47			1		1				11	2			
N/A	I-44	VAR.	LT/RT					11						0	0	165	11 LOC., USE 6" DIA. PIPES TO MATCH EX.	
SUBTOTAL				32	59	13	15	17	2	2	1	2	9	1	32	12	165	
PAY TOTAL				32	59	13	15	17	2	2	1	2	9	1	32	12	165	

GUARDRAIL												
SHEET NO.	STA	STA	LOC	ROADWAY	MGS GUARDRAIL	MGS GUARDRAIL 8' POSTS	MGS GUARDRAIL POSTS IN CONCRETE	MGS END ANCHOR	TYPE A CET (MASH)	MGS BRIDGE APPROACH TRANSITION SECTION	MGS VERTICAL CONCRETE BARRIER TRANSITION	REMARKS
					L.F.	L.F.	EACH	EACH		EACH	EACH	
	796+68	843+29	LT	I-44 EB	4228.0	300.0	25.0		1	1		
	824+24	831+99	RT	I-44 EB	712.5			1	1			
	845+48	853+24	RT	I-44 EB	700.0			1	1			
	869+93	872+30	RT	I-44 EB	150.0				1		1	
SUBTOTAL					5790.5	300.0	25.0	2	4	1	1	
TOTAL					5791	300	25	2	4	1	1	

SUMMARY OF QUANTITIES
SHEET 6 OF 7

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ROUTE
 I-44 MO

DISTRICT SHEET NO.
 CD 4

COUNTY
 PULASKI

JOB NO.
 JCD0111

CONTRACT ID.

BRIDGE NO.

DESCRIPTION

DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL JEFFERSON CITY, MO 65102

1-888-ASK-MODOT (1-888-275-6636)

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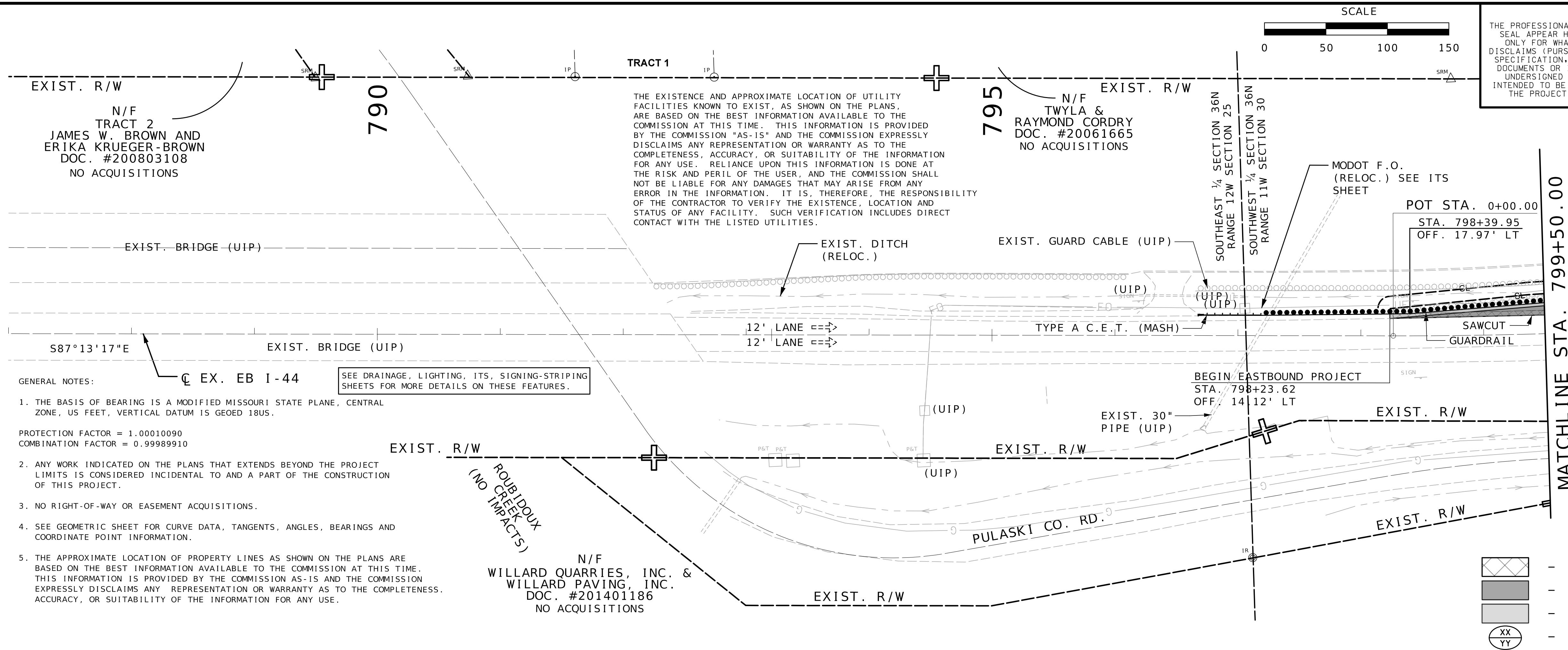
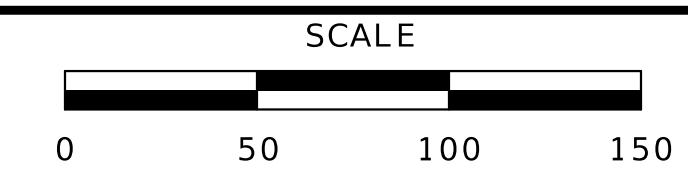
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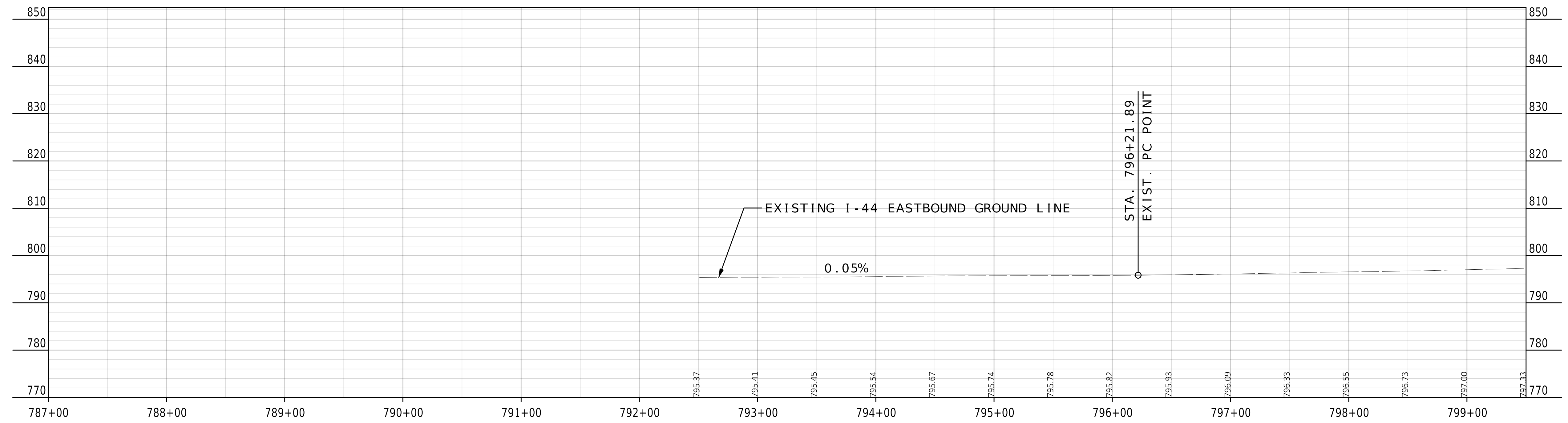


- GENERAL NOTES:
1. THE BASIS OF BEARING IS A MODIFIED MISSOURI STATE PLANE, CENTRAL ZONE, US FEET, VERTICAL DATUM IS GEOED 18US.
 PROTECTION FACTOR = 1.00010090
 COMBINATION FACTOR = 0.99989910
 2. ANY WORK INDICATED ON THE PLANS THAT EXTENDS BEYOND THE PROJECT LIMITS IS CONSIDERED INCIDENTAL TO AND A PART OF THE CONSTRUCTION OF THIS PROJECT.
 3. NO RIGHT-OF-WAY OR EASEMENT ACQUISITIONS.
 4. SEE GEOMETRIC SHEET FOR CURVE DATA, TANGENTS, ANGLES, BEARINGS AND COORDINATE POINT INFORMATION.
 5. THE APPROXIMATE LOCATION OF PROPERTY LINES AS SHOWN ON THE PLANS ARE BASED ON THE BEST INFORMATION AVAILABLE TO THE COMMISSION AT THIS TIME. THIS INFORMATION IS PROVIDED BY THE COMMISSION AS-IS AND THE COMMISSION EXPRESSLY DISCLAIMS ANY REPRESENTATION OR WARRANTY AS TO THE COMPLETENESS, ACCURACY, OR SUITABILITY OF THE INFORMATION FOR ANY USE.

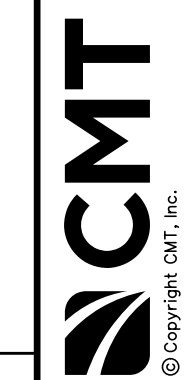
SEE DRAINAGE, LIGHTING, ITS, SIGNING-STRIPING SHEETS FOR MORE DETAILS ON THESE FEATURES.

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.

- LEGEND
- PAVEMENT REMOVAL
 - PROPOSED PAVEMENT
 - PROPOSED SHOULDER
 - XX = STRUCTURE NUMBER
 YY = STRUCTURE TYPE



EASTBOUND I-44
 PLAN AND PROFILE SHEET
 PLAN AND PROFILE
 SHEET 1 OF 7



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I-44 STATE
MO
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CD **5**
 COUNTY
PULASKI
 JOB NO.
JCD0111
 CONTRACT ID.

BRIDGE NO.

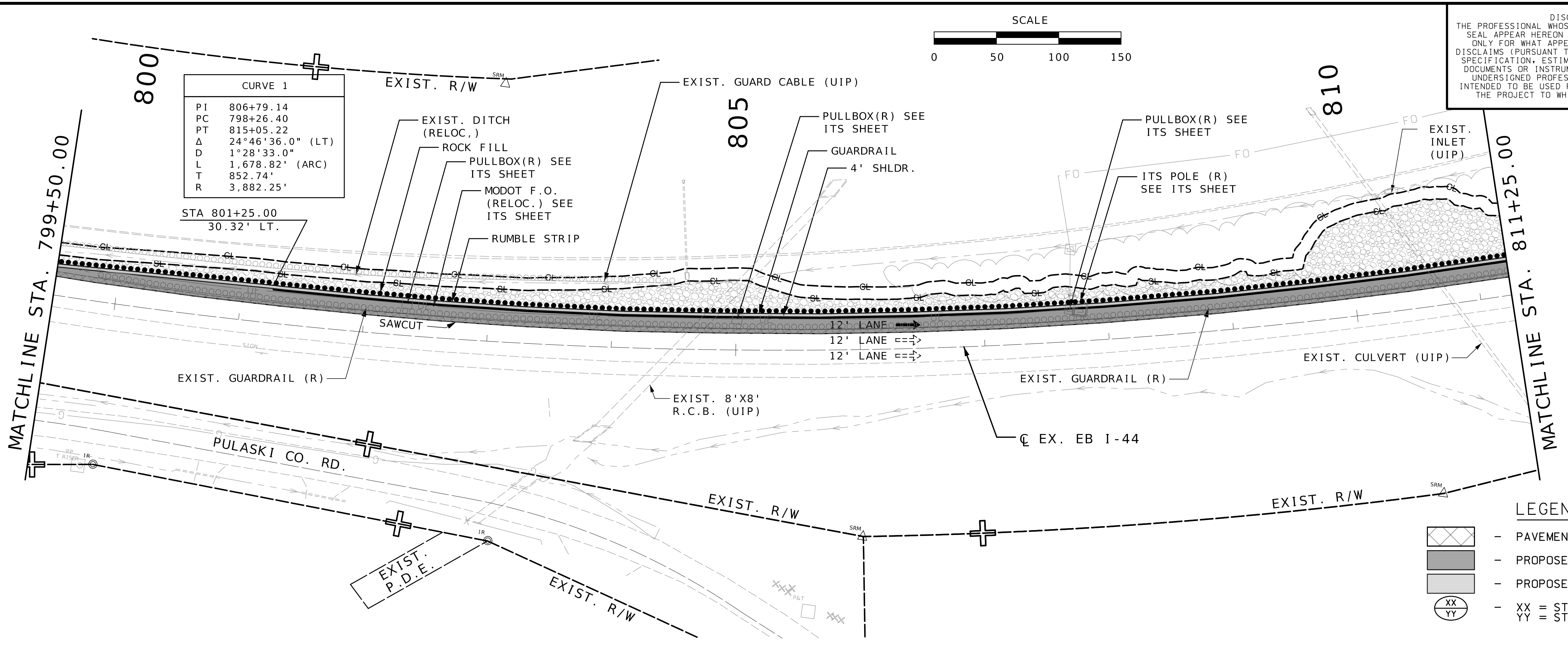
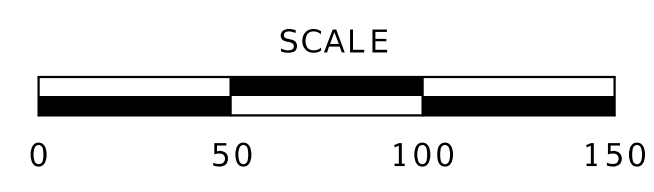
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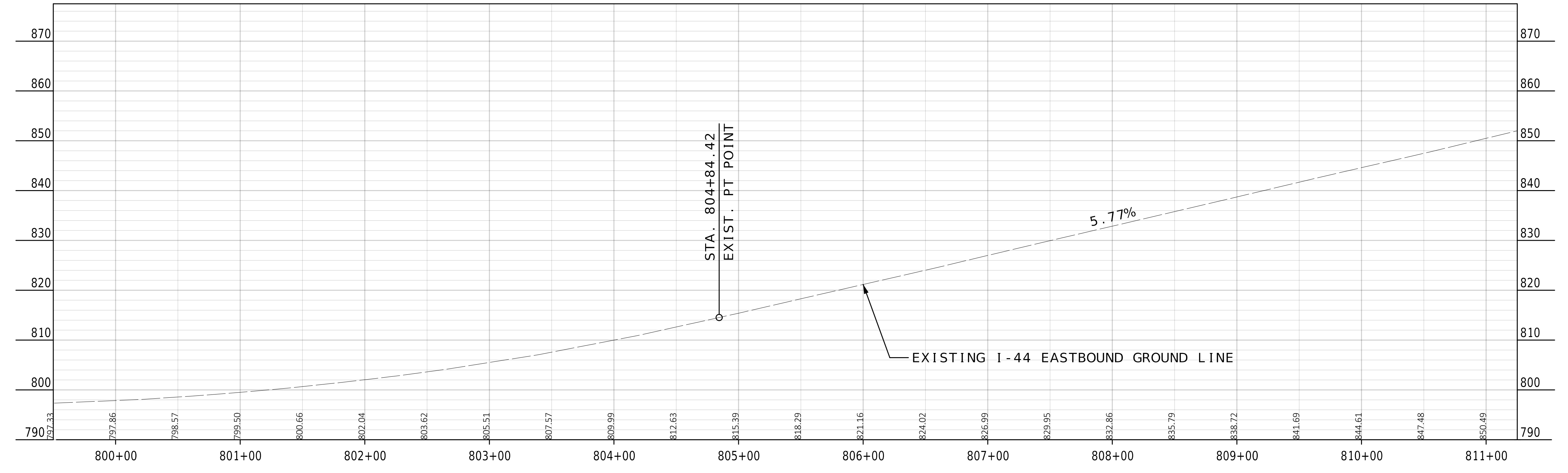
CURVE 1

PI	806+79.14
PC	798+26.40
PT	815+05.22
Δ	24°46'36.0" (LT)
L	1°28'33.0"
T	1,678.82' (ARC)
R	852.74'
R	3,882.25'

STA 801+25.00
 30.32' LT.

LEGEND

	- PAVEMENT REMOVAL
	- PROPOSED PAVEMENT
	- PROPOSED SHOULDER
	- XX = STRUCTURE NUMBER YY = STRUCTURE TYPE



EASTBOUND I-44
 PLAN AND PROFILE SHEET
 PLAN AND PROFILE
 SHEET 2 OF 7

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ROUTE
 I-44

STATE
 MO

DISTRICT
 CD

SHEET NO.
 6

COUNTY
 PULASKI

JOB NO.
 JCD0111

CONTRACT ID.

BRIDGE NO.

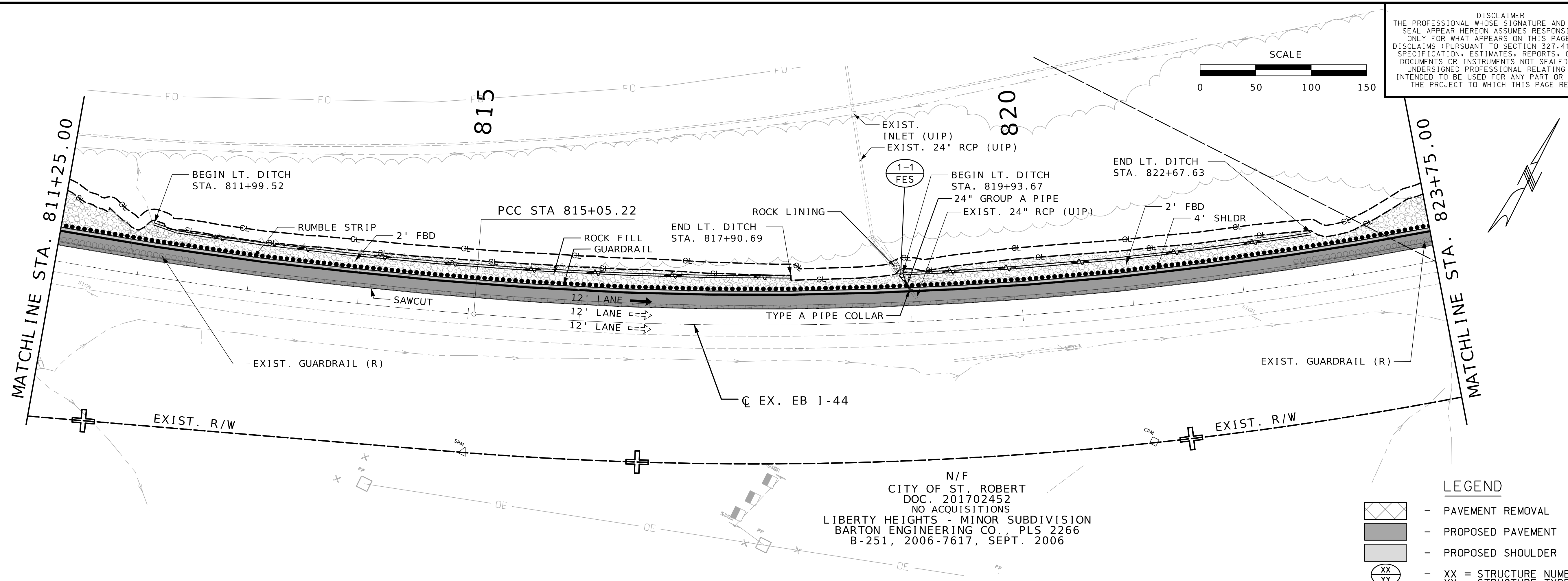
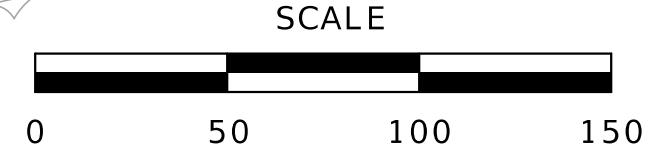
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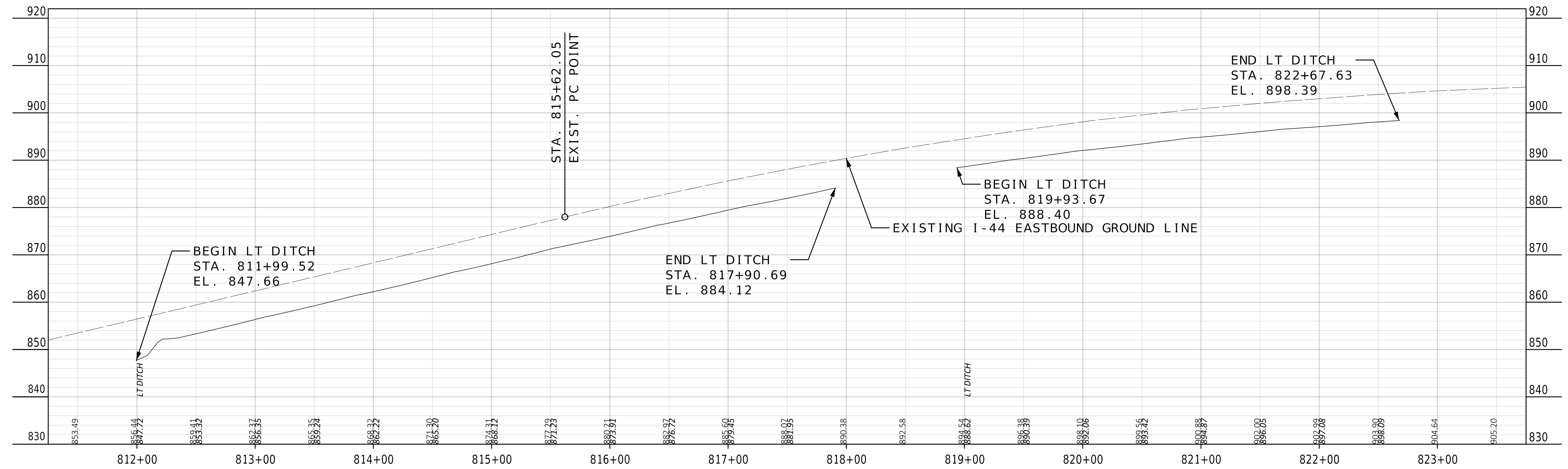
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 DOC. 201702452
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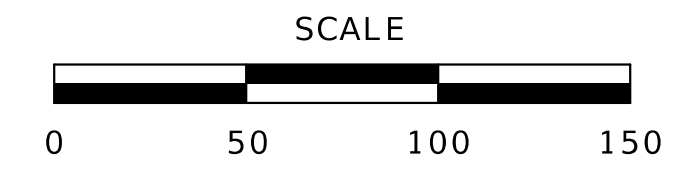
- LEGEND**
- PAVEMENT REMOVAL
 - PROPOSED PAVEMENT
 - PROPOSED SHOULDER
 - XX = STRUCTURE NUMBER
YY = STRUCTURE TYPE



**EASTBOUND I-44
 PLAN AND PROFILE SHEET**
**PLAN AND PROFILE
 SHEET 3 OF 7**

LEGEND

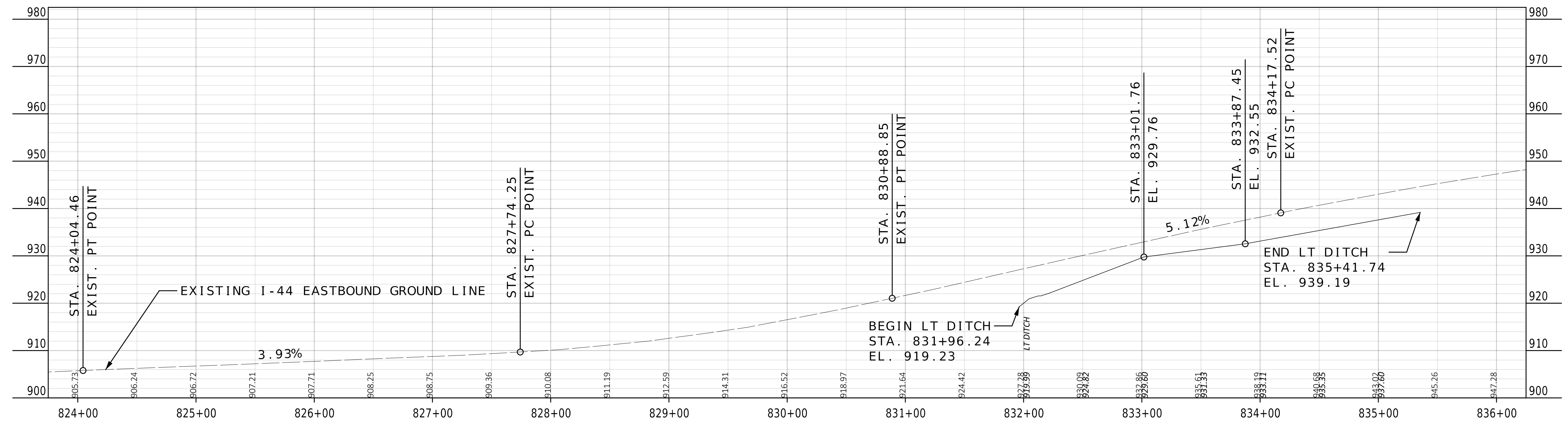
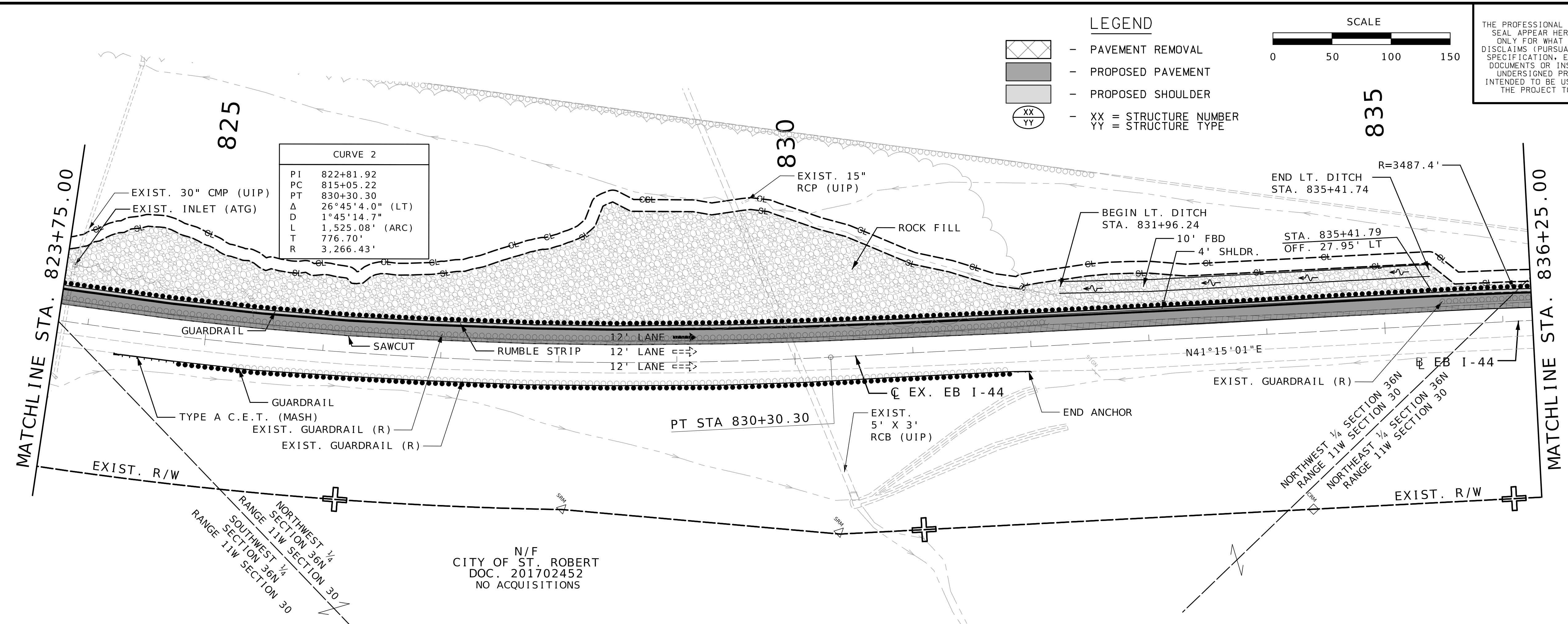
-  - PAVEMENT REMOVAL
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Bradley T. Spanberger - Civil
MO PE-2020027014
DATE PREPARED
8/12/2024
ROUTE **I-44** STATE **MO**
DISTRICT **CD** SHEET NO. **7**
COUNTY **PULASKI**
JOB NO. **JCD0111**
CONTRACT ID.



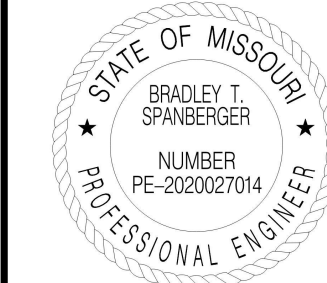
**EASTBOUND I-44
PLAN AND PROFILE SHEET**
**PLAN AND PROFILE
SHEET 4 OF 7**

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)

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8/12/2024

ROUTE
I-44

STATE
MO

DISTRICT
CD

SHEET NO.
8

COUNTY
PULASKI

JOB NO.
JCD0111

CONTRACT ID.

BRIDGE NO.

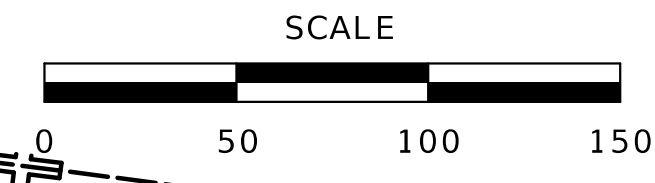
DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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

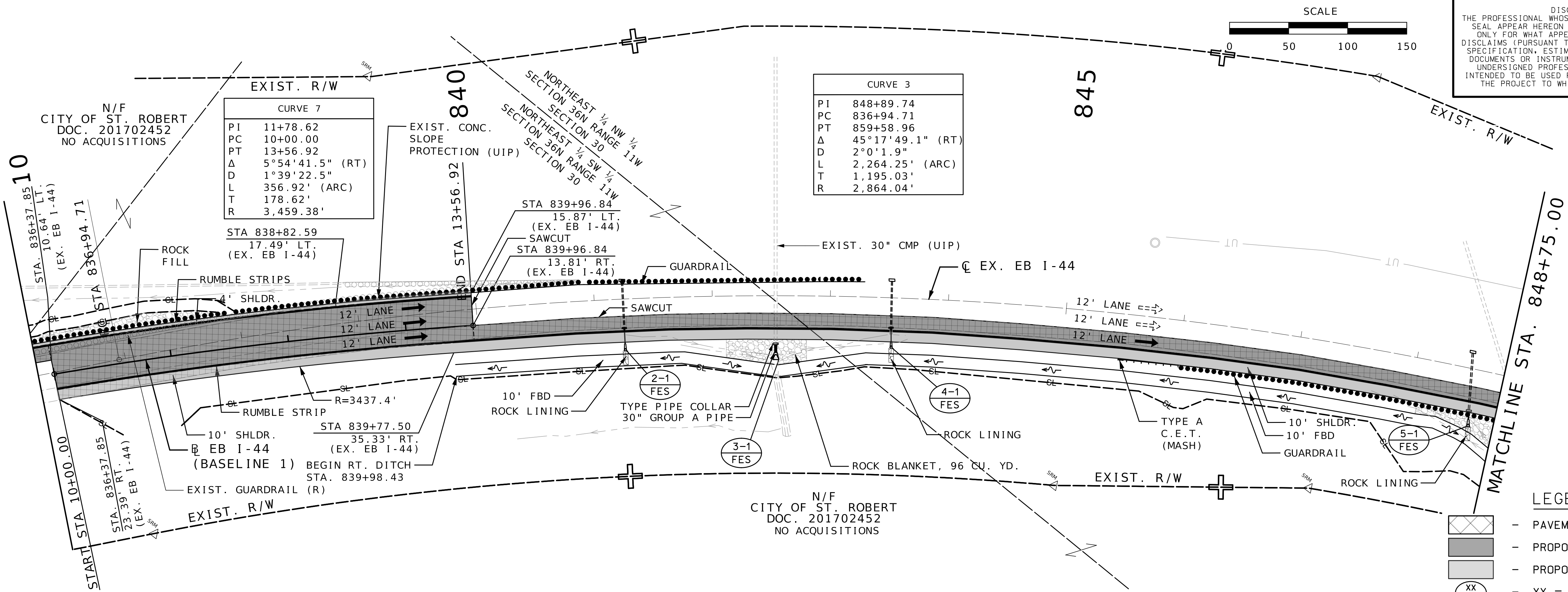
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CMT PROJECT NO.
24006489-00



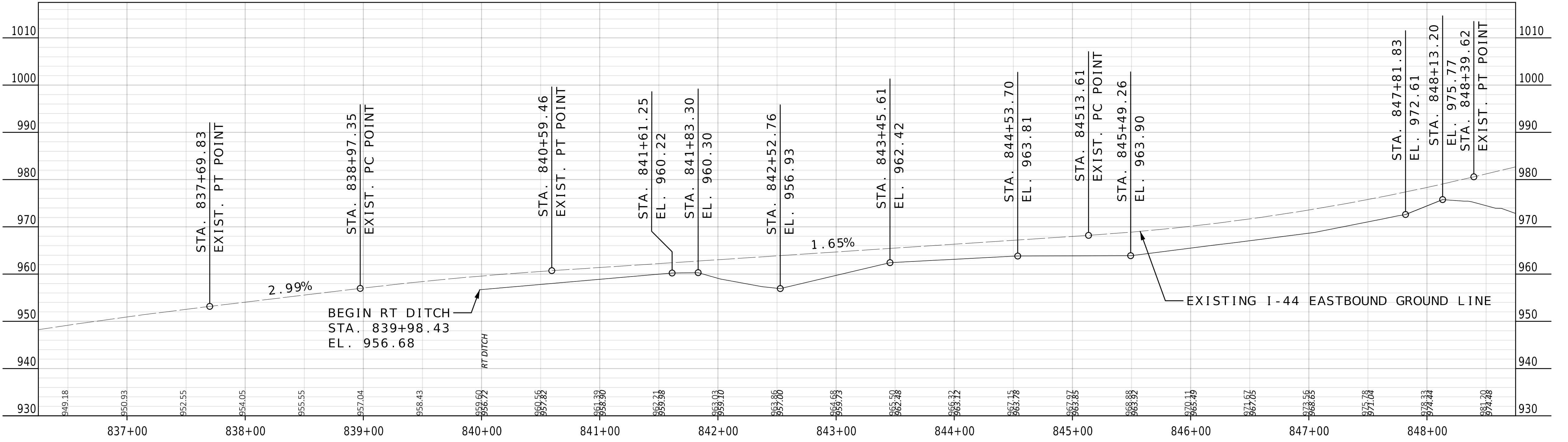
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PI	848+89.74
PC	836+94.71
PT	859+58.96
Δ	45°17'49.1" (RT)
D	2°0'1.9"
L	2,264.25' (ARC)
T	1,195.03'
R	2,864.04'

CURVE 7	
PI	11+78.62
PC	10+00.00
PT	13+56.92
Δ	5°54'41.5" (RT)
D	1°39'22.5"
L	356.92' (ARC)
T	178.62'
R	3,459.38'



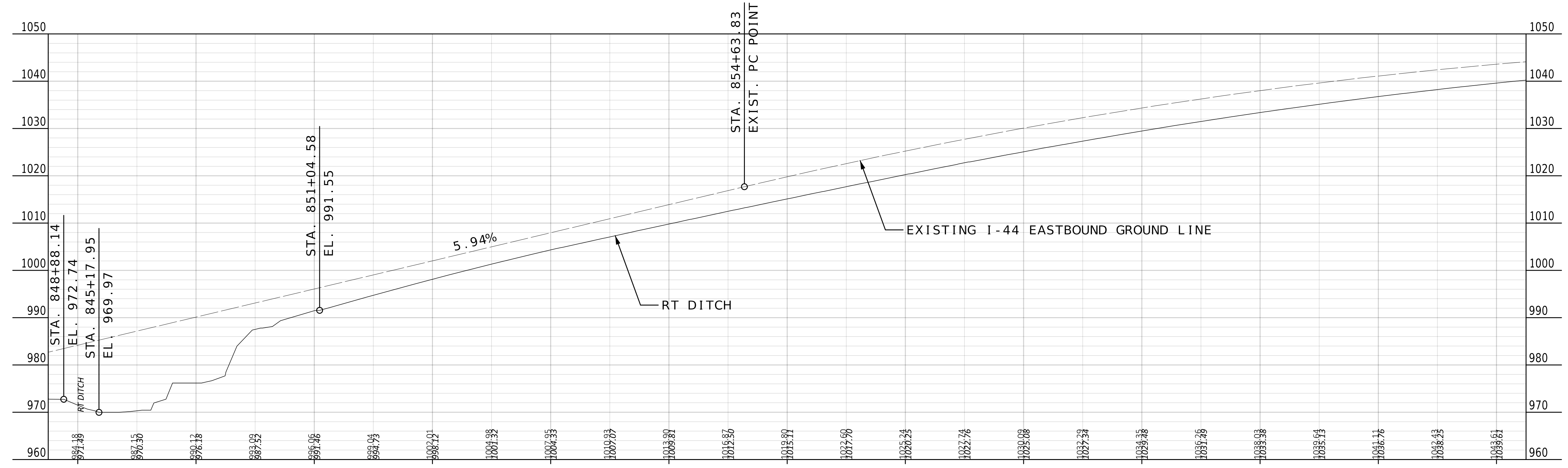
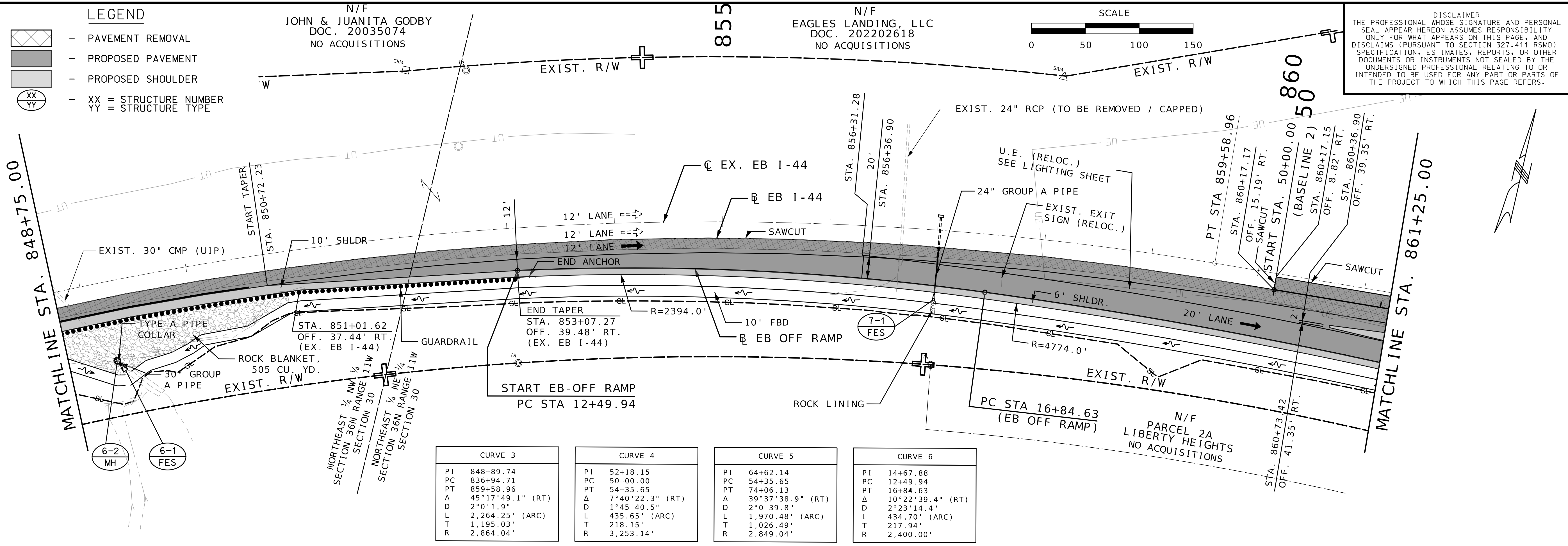
LEGEND

- PAVEMENT REMOVAL
- PROPOSED PAVEMENT
- PROPOSED SHOULDER
- XX = STRUCTURE NUMBER
YY = STRUCTURE TYPE



EASTBOUND I-44
PLAN AND PROFILE SHEET
PLAN AND PROFILE
SHEET 5 OF 7

CMT PROJECT NO.
24006489-00



**EASTBOUND I-44
PLAN AND PROFILE SHEET**

**PLAN AND PROFILE
SHEET 6 OF 7**

STATE OF MISSOURI
BRADLEY T. SPANBERGER
NUMBER PE-2020027014
PROFESSIONAL ENGINEER

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Bradley T. Spanberger - Civil
MO PE-2020027014

DATE PREPARED
8/12/2024

ROUTE	STATE
I-44	MO
DISTRICT	SHEET NO.
CD	9
COUNTY	JOB NO.
PULASKI	JCD0111
	CONTRACT ID.
BRIDGE NO.	
DESCRIPTION	
DATE	

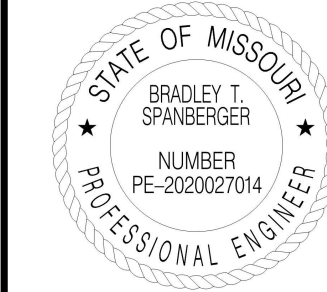
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

MoDOT
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JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

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 MO PE-2020027014

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ROUTE STATE
 I-44 MO

DISTRICT SHEET NO.
 CD 10

COUNTY
 JCD0111

JOB NO.
 JCD0111

CONTRACT ID.

BRIDGE NO.

DESCRIPTION

DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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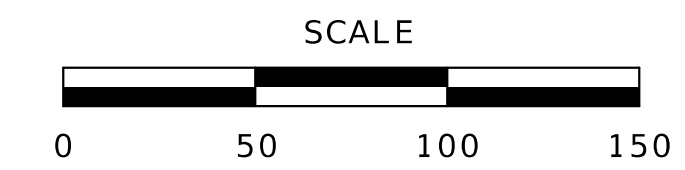
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LEGEND

- PAVEMENT REMOVAL
- PROPOSED PAVEMENT
- PROPOSED SHOULDER
- XX = STRUCTURE NUMBER
YY = STRUCTURE TYPE



CURVE 4

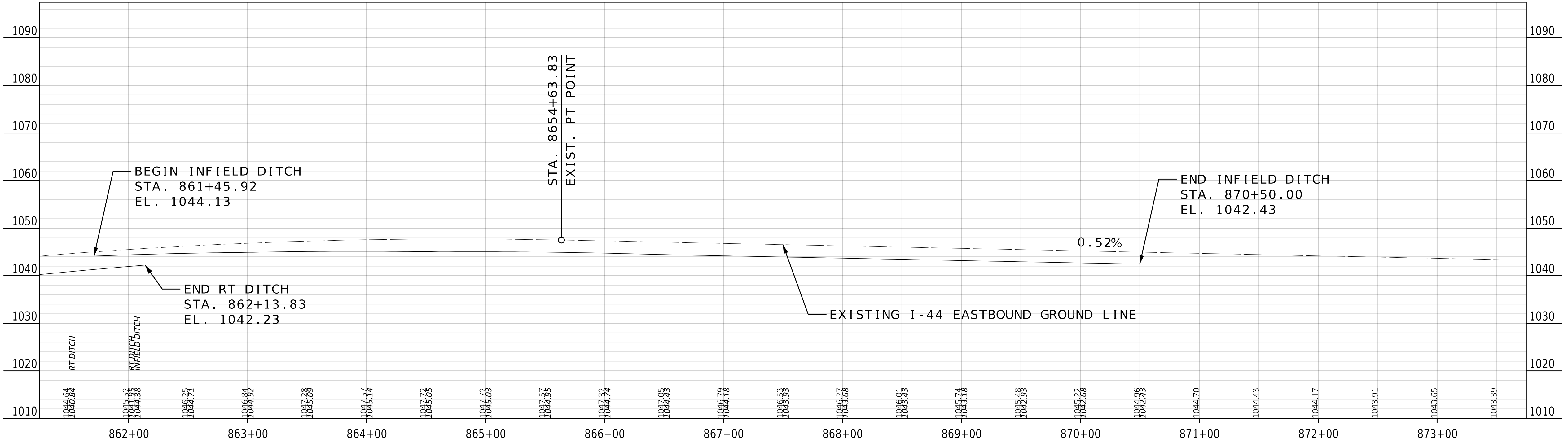
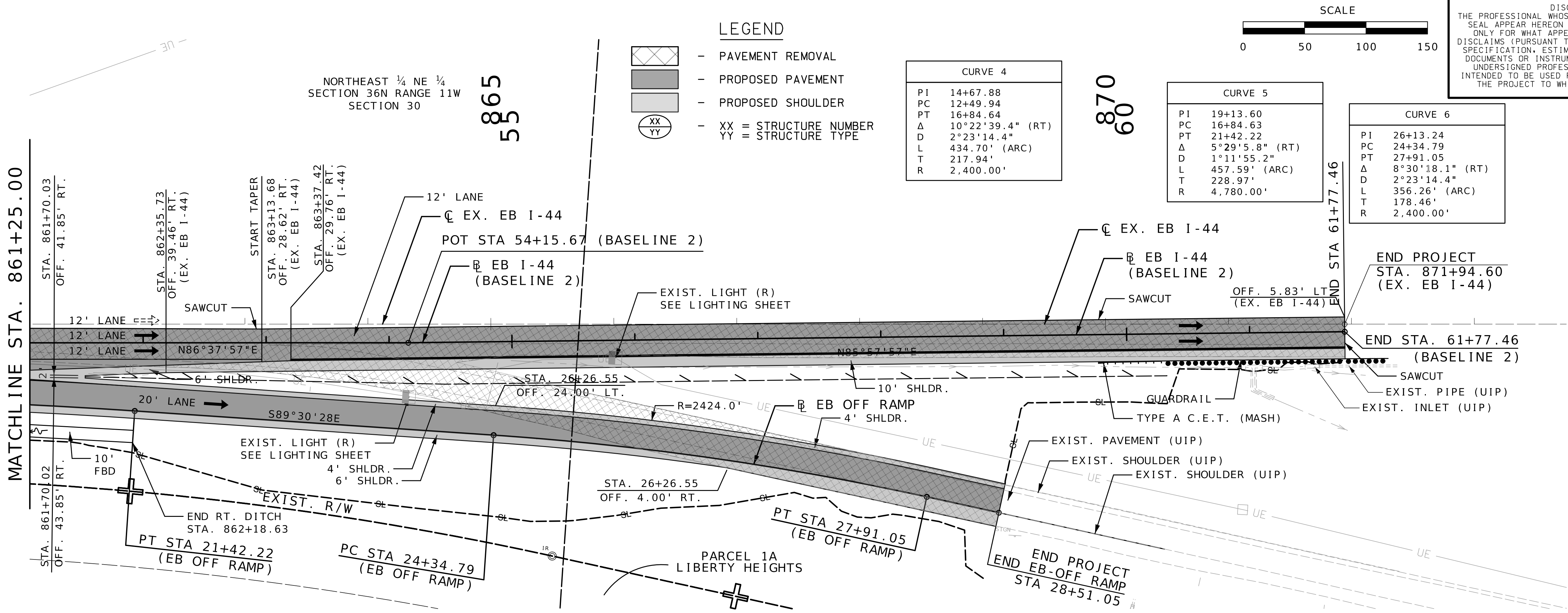
PI	14+67.88
PC	12+49.94
PT	16+84.64
Δ	10°22'39.4" (RT)
D	2°23'14.4"
L	434.70' (ARC)
T	217.94'
R	2,400.00'

CURVE 5

PI	19+13.60
PC	16+84.63
PT	21+42.22
Δ	5°29'5.8" (RT)
D	1°11'55.2"
L	457.59' (ARC)
T	228.97'
R	4,780.00'

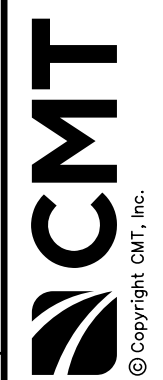
CURVE 6

PI	26+13.24
PC	24+34.79
PT	27+91.05
Δ	8°30'18.1" (RT)
D	2°23'14.4"
L	356.26' (ARC)
T	178.46'
R	2,400.00'



EASTBOUND I-44
 PLAN AND PROFILE SHEET

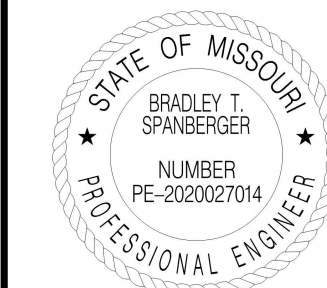
PLAN AND PROFILE
 SHEET 7 OF 7



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ROUTE STATE
 I-44 MO

DISTRICT SHEET NO.
 CD 11

COUNTY
 PULASKI

JOB NO.
 JCD0111

CONTRACT ID.

BRIDGE NO.

DESCRIPTION

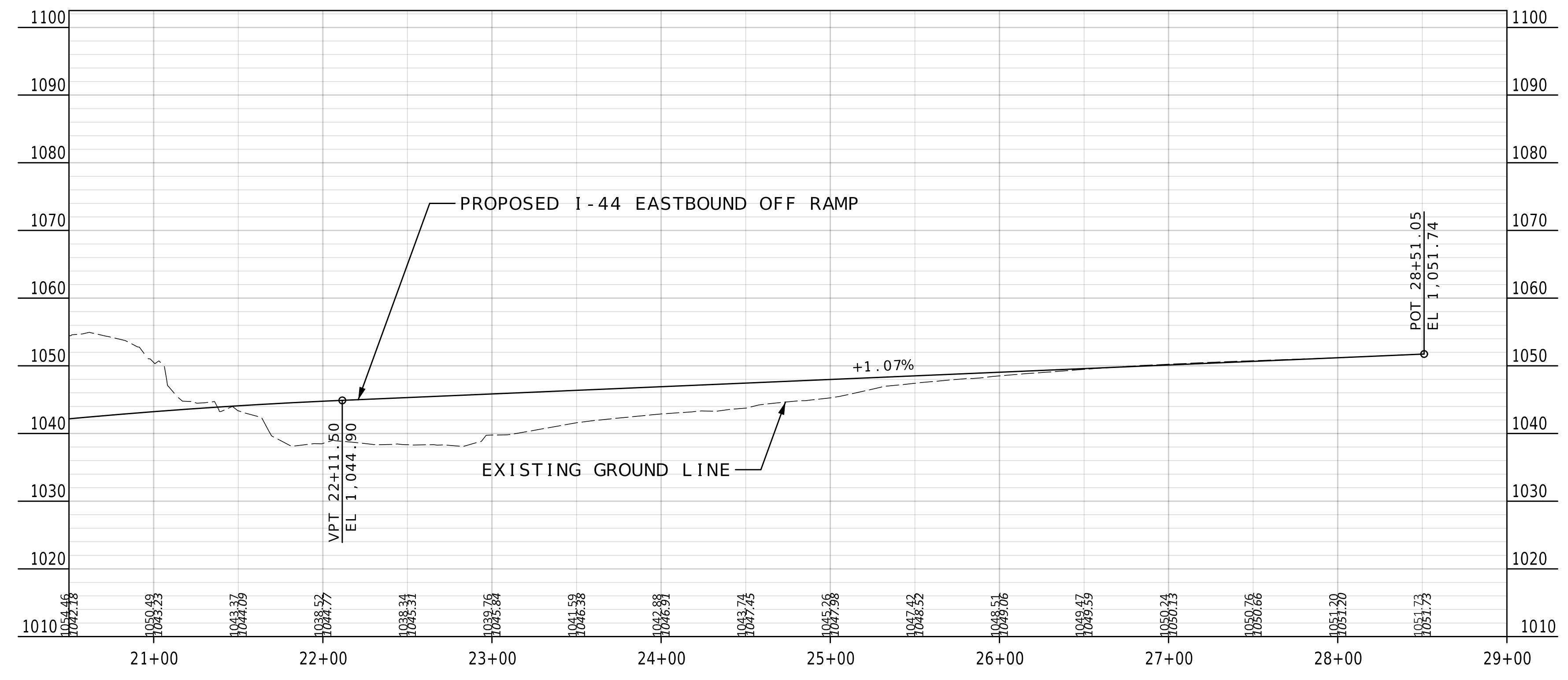
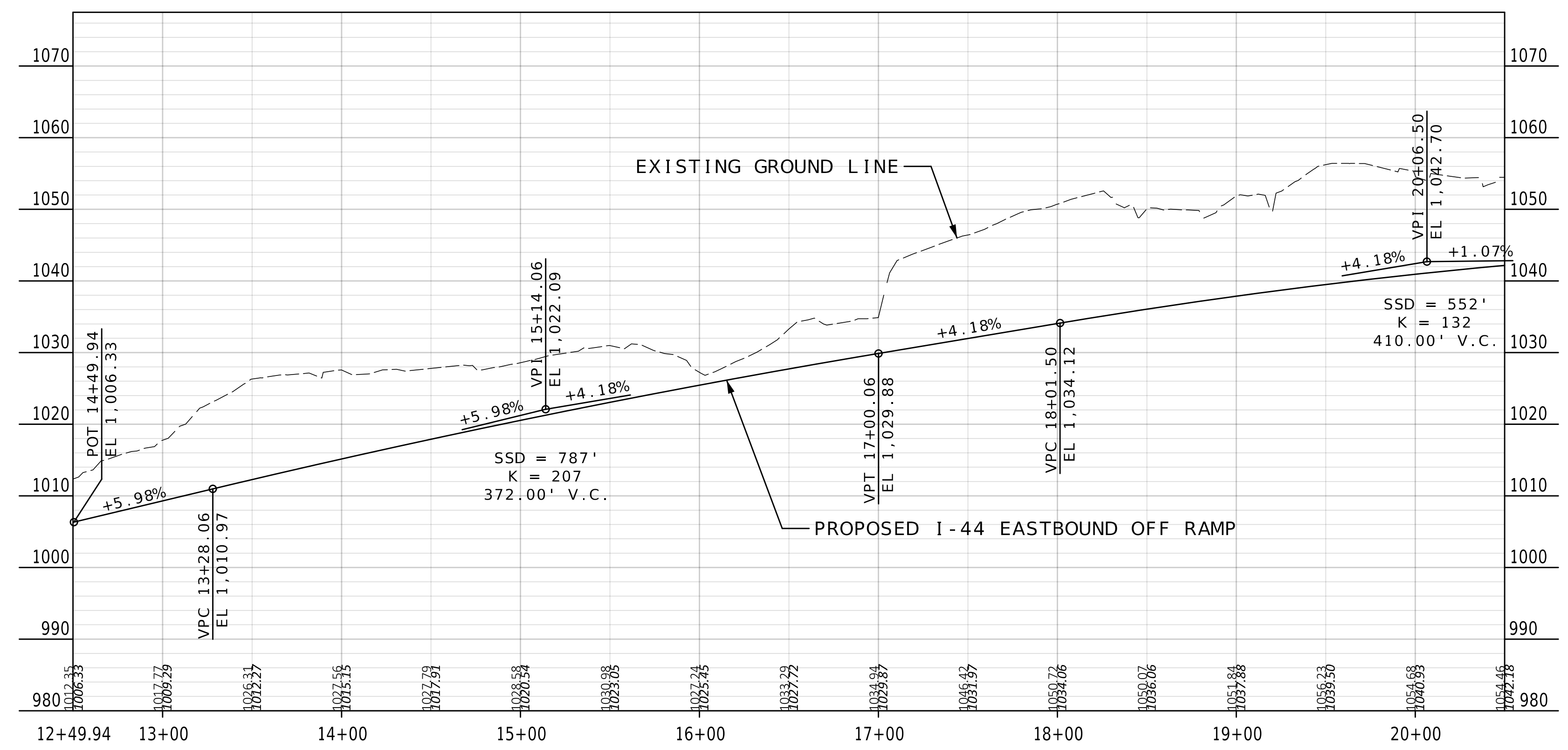
DATE

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EASTBOUND OFF-RAMP
 PROFILE SHEET

PROFILE SHEET
 SHEET 1 OF 2



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 MO PE-2020027014

DATE PREPARED
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ROUTE STATE
 I-44 MO

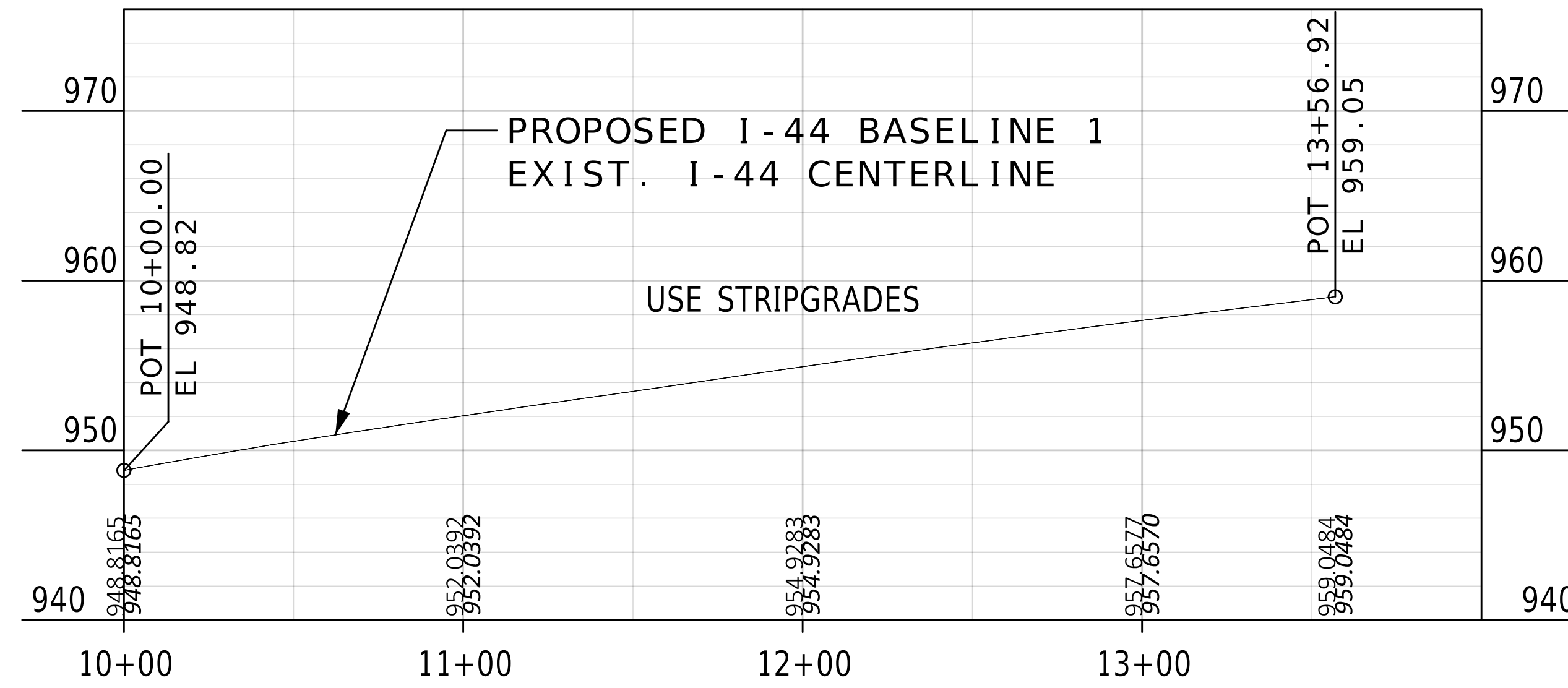
DISTRICT SHEET NO.
 CD 12

COUNTY
 PULASKI

JOB NO.
 JCD0111

CONTRACT ID.
 .

BRIDGE NO.
 .



BASELINE 1 PROFILE AND EXIST. I-44 CENTERLINE PROFILE ARE NEARLY IDENTICAL, STRIPGRADES ARE PROVIDED FOR INFORMATIONAL PURPOSES DURING CONSTRUCTION

DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL
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BASELINE 1
 PROFILE SHEET

PROFILE SHEET
 SHEET 2 OF 2

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 MO PE-2020027014

DATE PREPARED
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ROUTE STATE
 I-44 MO

DISTRICT SHEET NO.
 CD 13

COUNTY
 PULASKI

JOB NO.
 JCD0111

CONTRACT ID.

BRIDGE NO.

DESCRIPTION

DATE

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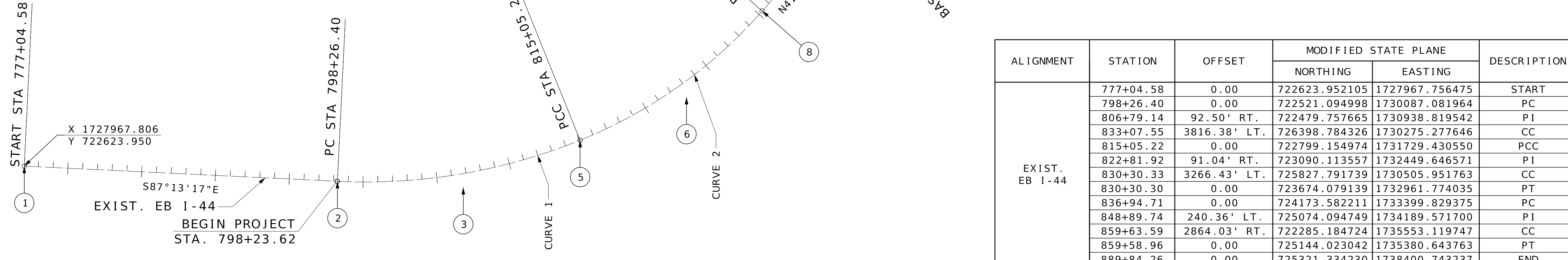
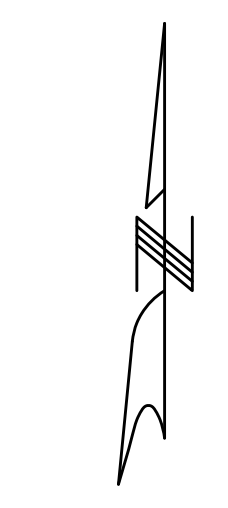
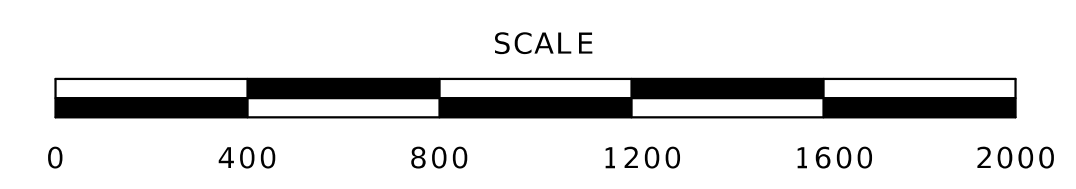
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CMT PROJECT NO.

24006489-00



CURVE 1	
PI	806+79.14
PC	798+26.40
PT	815+05.22
Δ	24°46'36.0" (LT)
D	1°28'33.0"
L	1,678.82' (ARC)
T	852.74'
R	3,882.25'

CURVE 2	
PI	822+81.92
PC	815+05.22
PT	830+30.30
Δ	26°45'4.0" (LT)
D	1°45'14.7"
L	1,525.08' (ARC)
T	776.70'
R	3,266.43'

CURVE 3	
PI	848+89.74
PC	836+94.71
PT	859+58.96
Δ	45°17'49.1" (RT)
D	2°0'1.9"
L	2,264.25' (ARC)
T	1,195.03'
R	2,864.04'

CURVE 4	
PI	14+67.88
PC	12+49.94
PT	16+84.64
Δ	10°22'39.4" (RT)
D	2°23'14.4"
L	434.70' (ARC)
T	217.94'
R	2,400.00'

CURVE 5	
PI	19+13.61
PC	16+84.64
PT	21+42.23
Δ	5°29'5.8" (RT)
D	1°11'55.2"
L	457.59' (ARC)
T	228.97'
R	4,780.00'

CURVE 6	
PI	26+13.25
PC	24+34.79
PT	27+91.05
Δ	8°30'18.1" (RT)
D	2°23'14.4"
L	356.26' (ARC)
T	178.46'
R	2,400.00'

CURVE 7	
PI	11+78.62
PC	10+00.00
PT	13+56.92
Δ	5°54'45.1" (RT)
D	1°39'22.5"
L	356.92' (ARC)
T	178.62'
R	3,459.38'

ALIGNMENT	STATION	OFFSET	MODIFIED STATE PLANE		DESCRIPTION	POINT
			NORTHING	EASTING		
EXIST. EB I-44	777+04.58	0.00	722623.952105	1727967.756475	START	1
	798+26.40	0.00	722521.094998	1730087.081964	PC	2
	806+79.14	92.50' RT.	722479.757665	1730938.819542	PI	3
	833+07.55	3816.38' LT.	726398.784326	1730275.277646	CC	4
	815+05.22	0.00	722799.154974	1731729.430550	PCC	5
	822+81.92	91.04' RT.	723090.113557	1732449.646571	PI	6
	830+30.33	3266.43' LT.	725827.791739	1730505.951763	CC	7
	830+30.30	0.00	723674.079139	1732961.774035	PT	8
	836+94.71	0.00	724173.582211	1733399.829375	PC	9
	848+89.74	240.36' LT.	725074.094749	1734189.571700	PI	10
	859+63.59	2864.03' RT.	722285.184724	1735553.119747	CC	11
	859+58.96	0.00	725144.023042	1735380.643763	PT	12
	889+84.26	0.00	725321.334230	1738400.743237	END	13
BASELINE 1	10+00.00	0.00	724130.384692	1733363.763423	PC	14
	11+78.46	0.00	724261.383114	1733485.190536	PI	15
	13+56.92	4.61' LT.	724379.145847	1733619.426186	PT	16
BASELINE 2	13+56.92	3459.38' RT.	721778.674825	1735900.843264	CC	17
	50+00.00	0.00	725132.271800	1735439.714214	START	18
	54+15.67	0.00	725156.685524	1735854.615236	POT	19
EB OFF RAMP	61+77.46	0.00	725210.277914	1736614.515594	END	20
	12+49.94	0.00	724993.565502	1734751.390321	PC	21
	14+67.88	11.53' LT.	725049.803453	1734944.028237	PI	22
	12+12.07	2399.70' RT.	722679.407292	1735387.528496	CC	23
	16+84.63	0.00	725070.300927	1735178.656233	PCC	24
	19+13.60	5.48' LT.	725090.228266	1735406.758069	PI	25
	21+42.22	0.00	725088.261414	1735635.720245	PT	26
	24+34.79	0.00	725085.748292	1735928.273835	PC	27
	26+13.24	6.63' LT.	725084.215352	1736106.724101	PI	28
	24+34.79	2400.00' RT.	722685.836839	1735907.657891	CC	29
	27+91.05	0.00	725056.307131	1736282.985210	PT	30
28+51.05	0.00	725046.923948	1736342.246967	END	31	

I-44 EASTBOUND
 GEOMETRIC SHEET
 COORDINATE POINTS SHEET
 SHEET 1 OF 1

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 MO PE-2020027014

DATE PREPARED
 8/12/2024

ROUTE STATE
 I-44 MO

DISTRICT SHEET NO.
 CD 14

COUNTY
 PULASKI

JOB NO.
 JCD0111

CONTRACT ID.

BRIDGE NO.

DESCRIPTION

DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL JEFFERSON CITY, MO 65102

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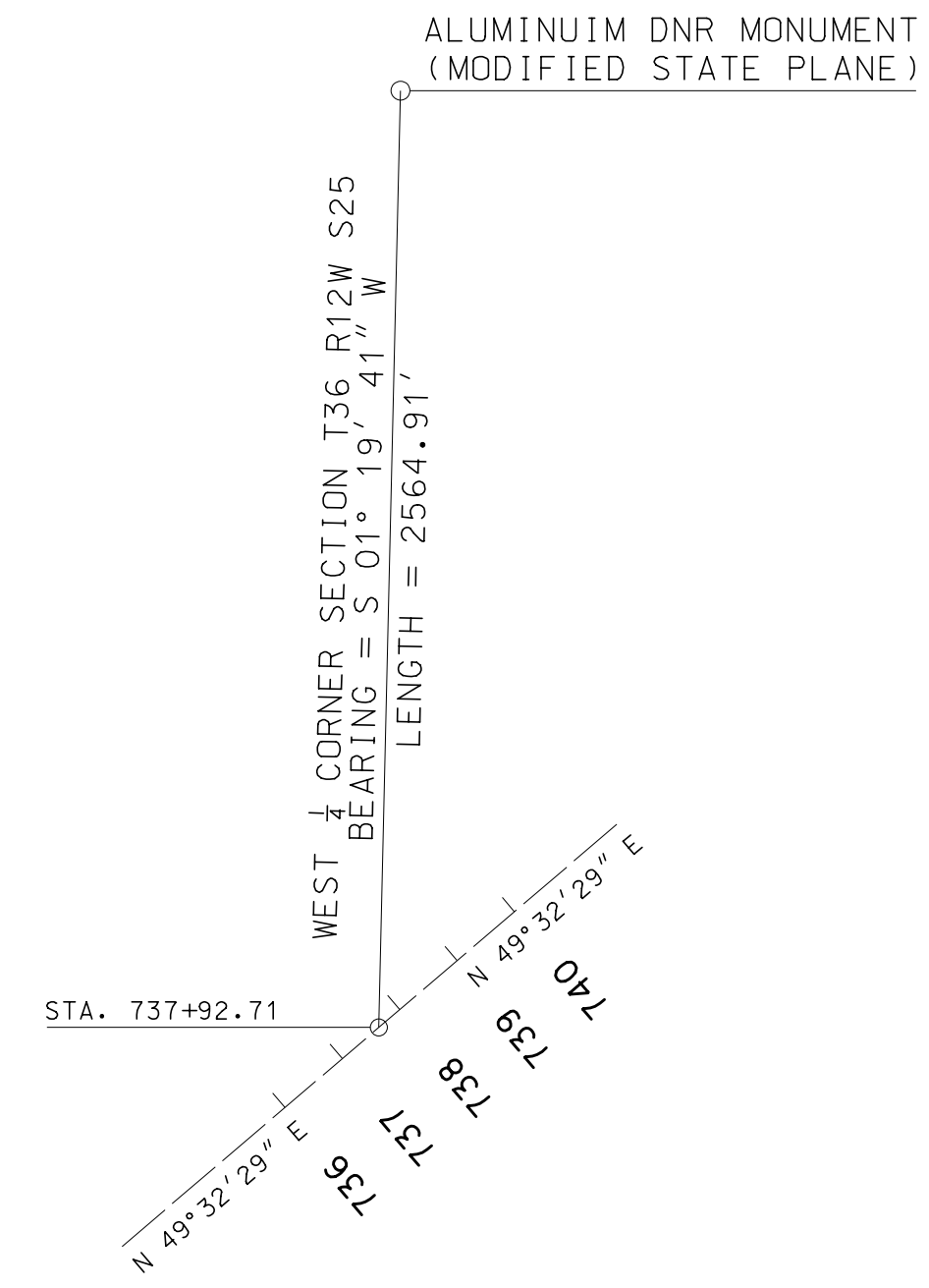
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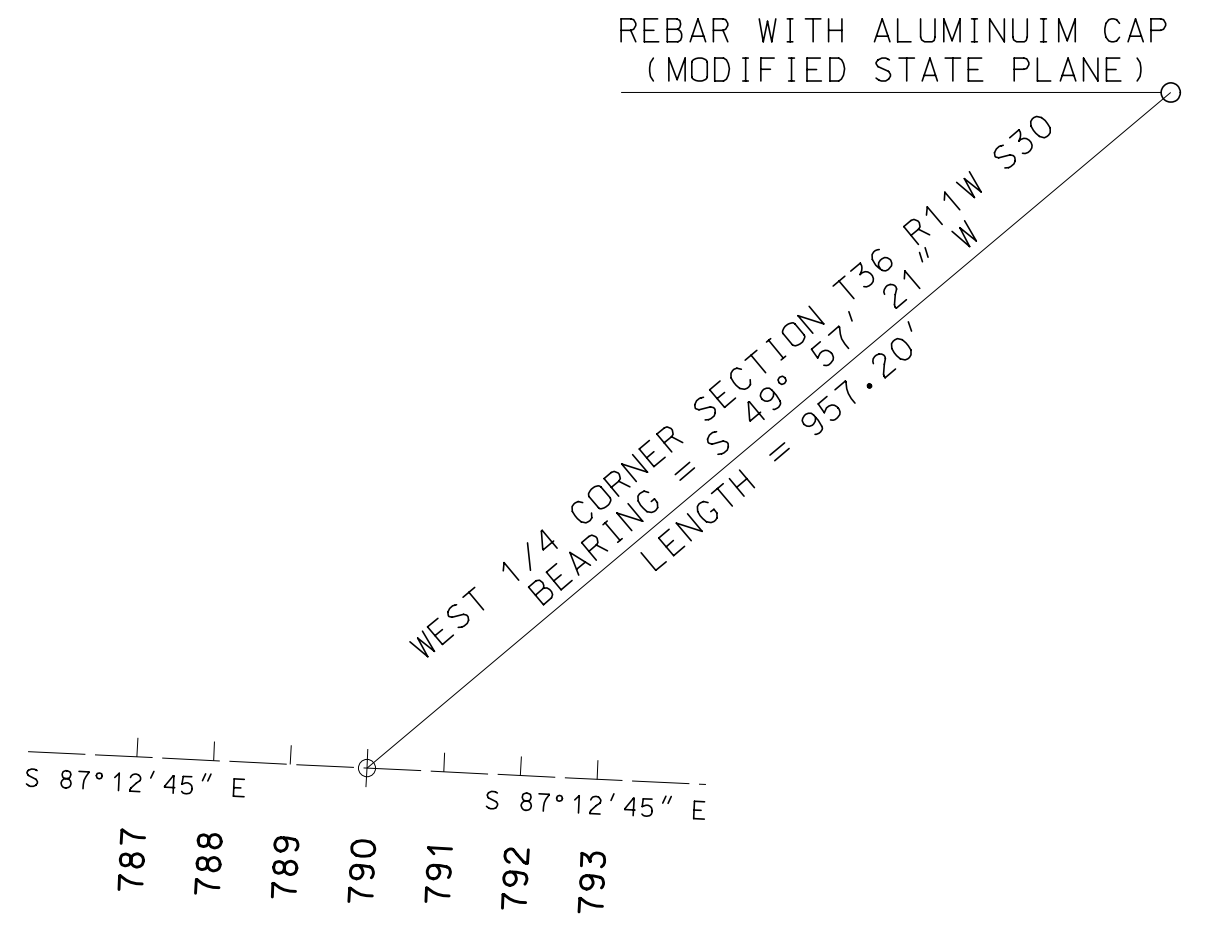
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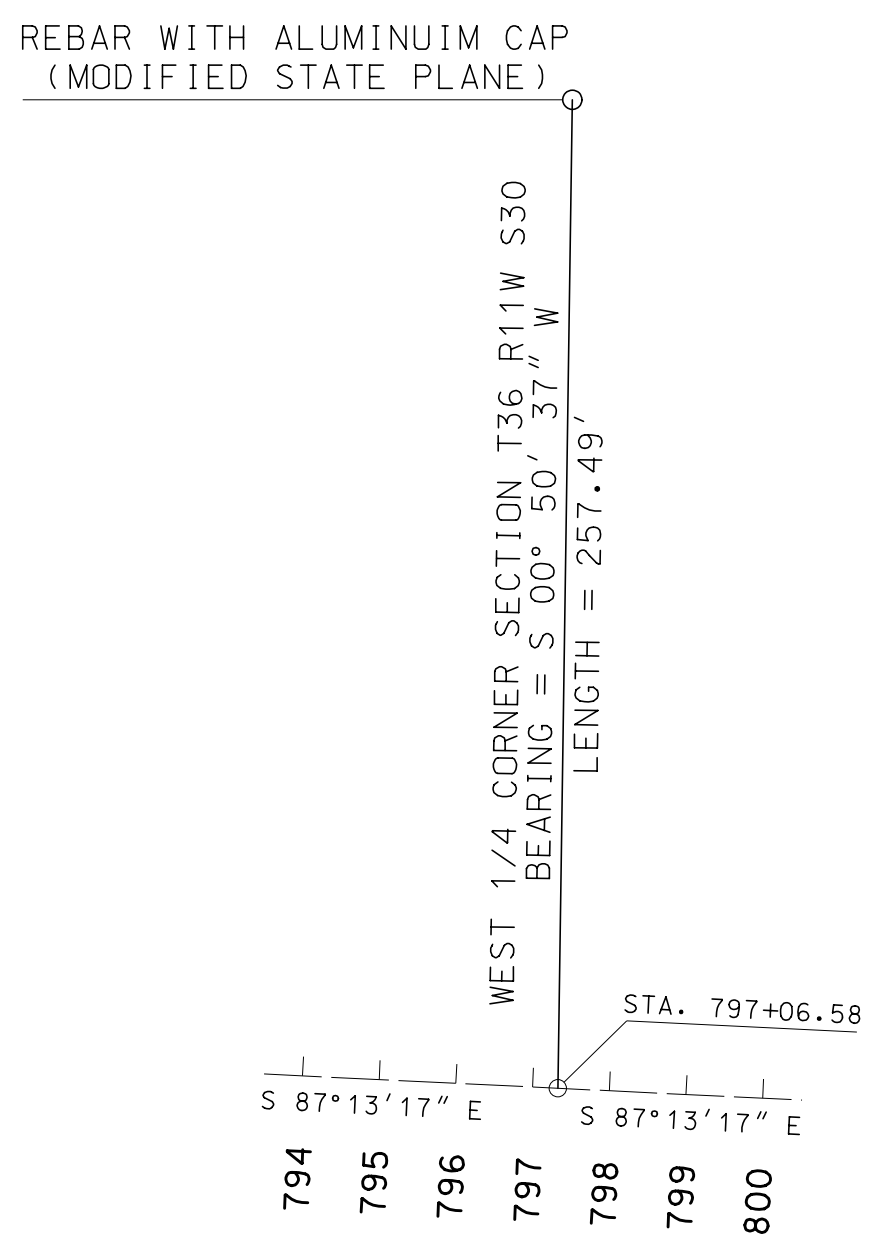
24006489-00



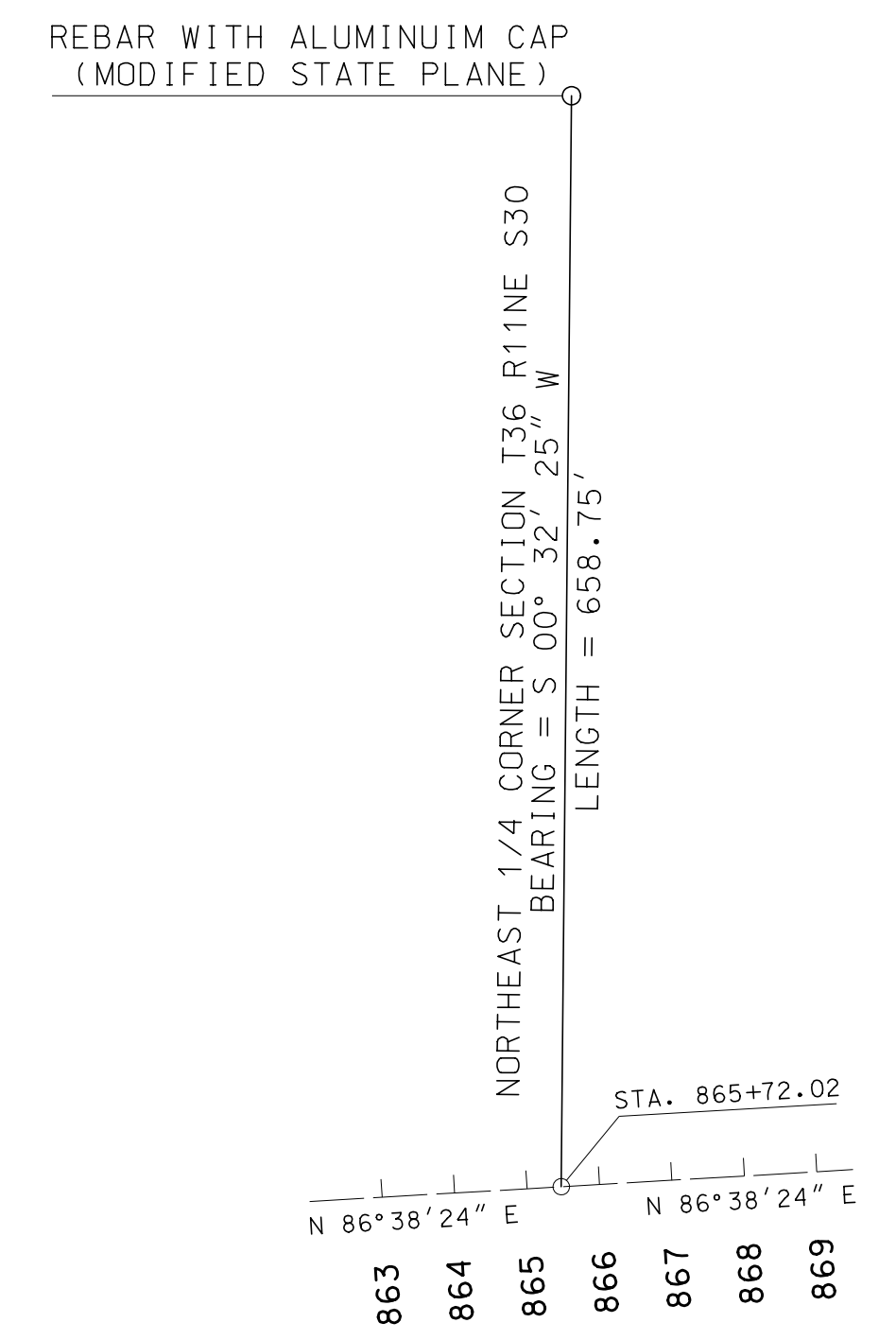
LAND TIE #1



LAND TIE #2



LAND TIE #3



LAND TIE #4

LAND CORNER TIES & PROJECT COORDINATES

ALL PROJECT COORDINATES INCLUDING LAND TIES USE THE FOLLOWING CONTROL:

MODIFIED MISSOURI STATE PLANE, NAD83, CENTRAL ZONE, US FEET, GEOID 18US
 COMBINATION FACTOR = 0.99989910
 PROJECTION FACTOR 1.00010090

ALL TIES ARE ALONG THE PLSS TO THE EXISTING CENTERLINE STATIONING OF I-44

LAND TIES & RW SUMMARY

RIGHT-OF-WAY SHEETS
 SHEET 1 OF 1

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 Bradley T. Spanberger - Civil
 MO PE-2020027014

DATE PREPARED
 8/21/2024

ROUTE STATE
 I-44 MO

DISTRICT SHEET NO.
 CD 15

COUNTY
 PULASKI

JOB NO.
 JCD0111

CONTRACT ID.

BRIDGE NO.

DESCRIPTION

DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL JEFFERSON CITY, MO 65102

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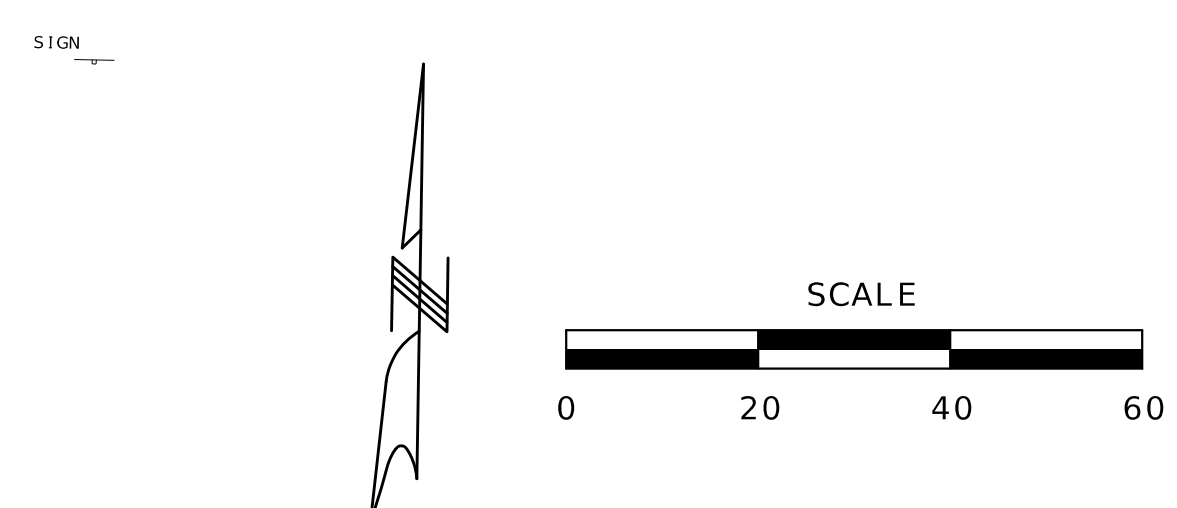
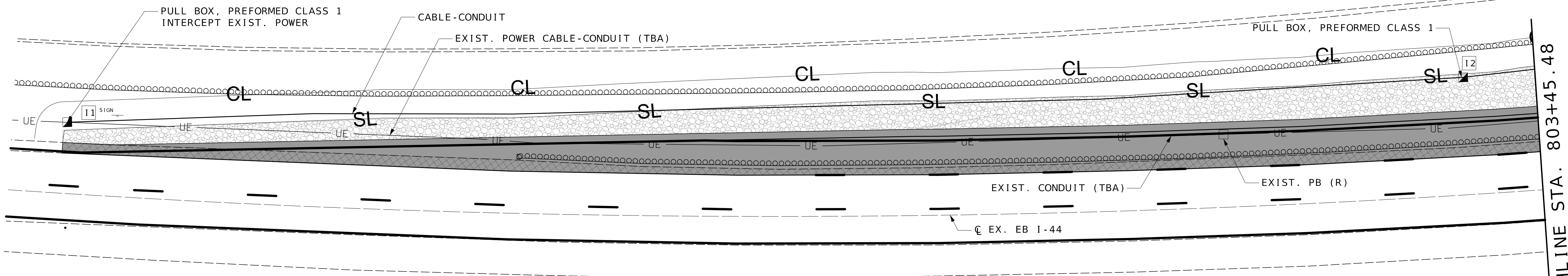


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 24006489-00

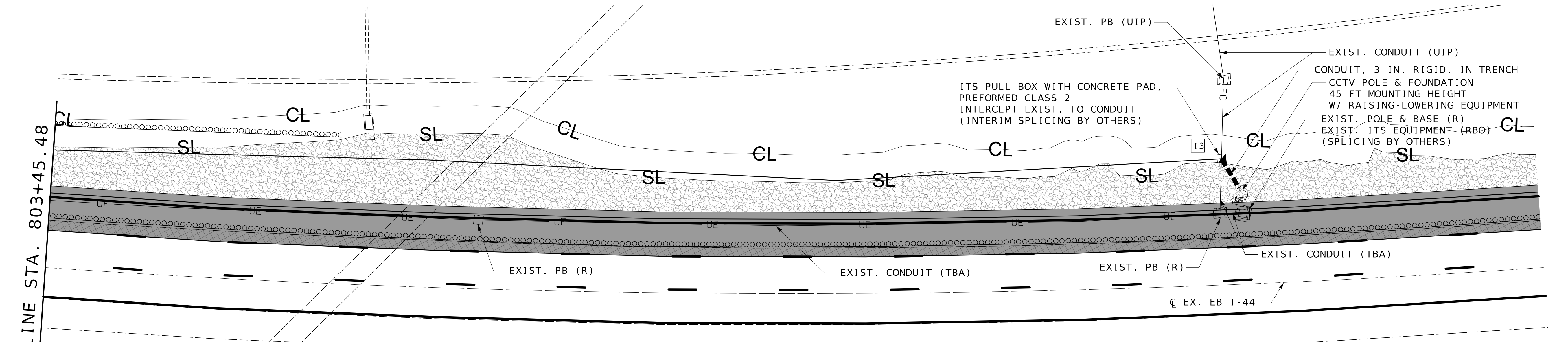
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 SPRINGFIELD, MO 65807 (417) 869-6009
 ENGINEERING CORPORATION - 000631

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NOTE: FIBER OPTIC DISCONNECTS AND TEMPORARY SPLICE CONNECTIONS SHALL BE PERFORMED ONLY BY MoDOT. SEE JSP FOR POINT OF CONTACT.



EASTBOUND I-44
 ITS SHEET

ITS
 SHEET 1 OF 1

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Bradley T. Spanberger

08/12/2024 3:04:36 PM
 Bradley T. Spanberger - Civil
 MO PE-2020027014

DATE PREPARED
 8/12/2024

ROUTE I-44 STATE MO

DISTRICT CD SHEET NO. 16

COUNTY PULASKI

JOB NO. JCD0111

CONTRACT ID.

BRIDGE NO.

DESCRIPTION

DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

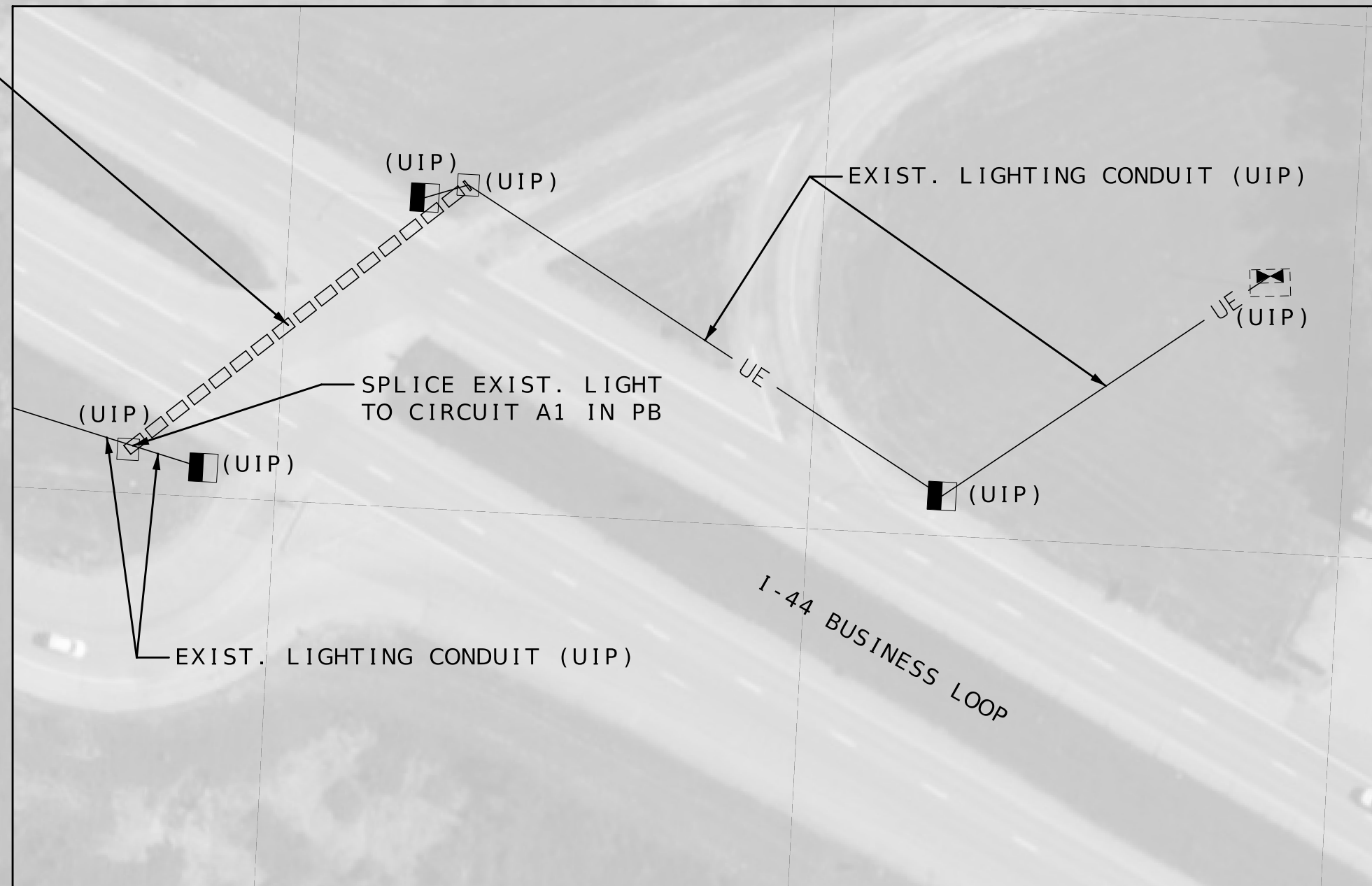
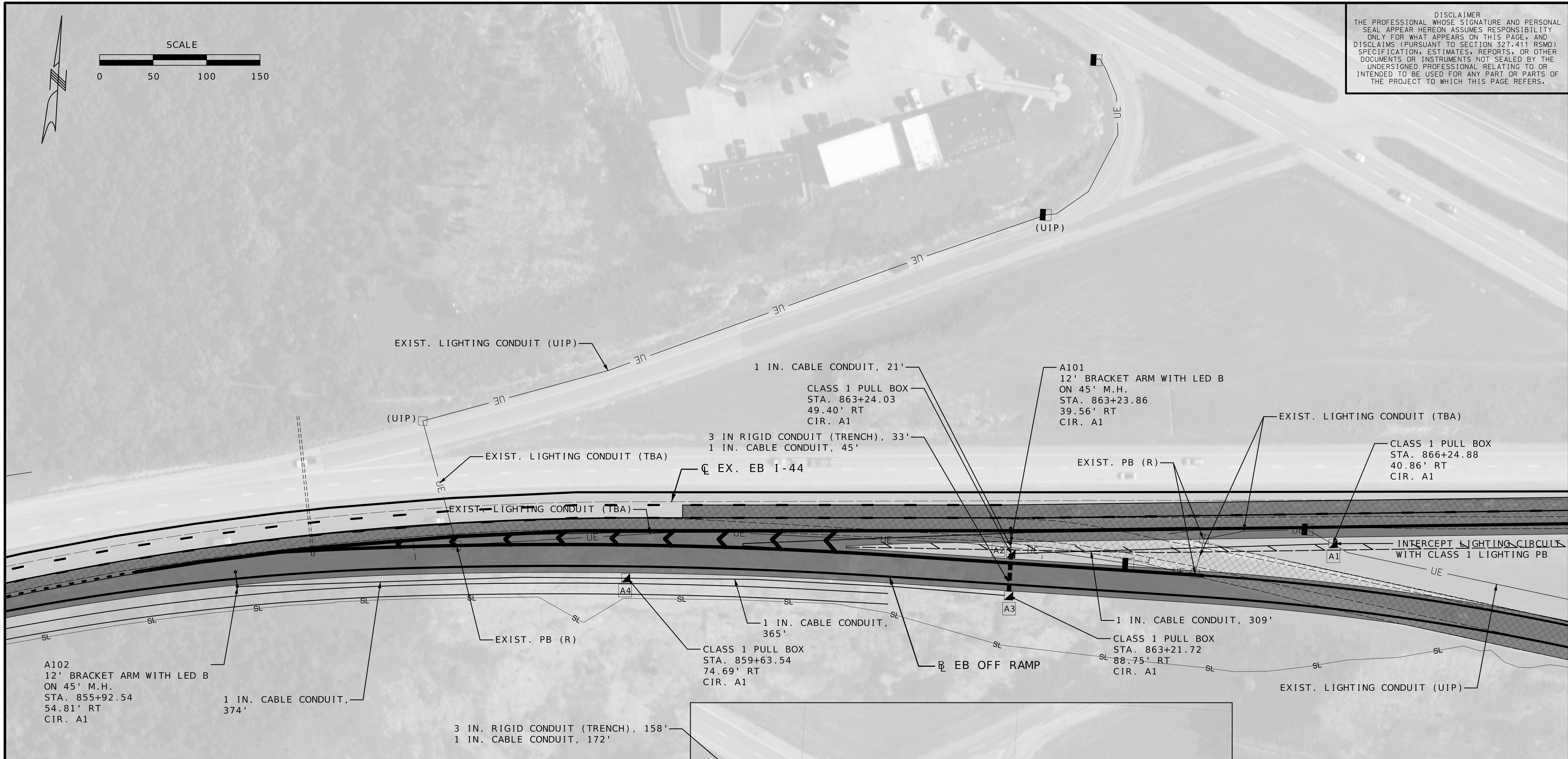
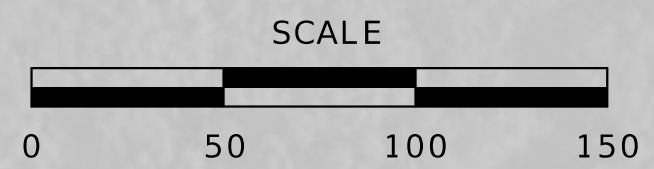
105 WEST CAPITOL JEFFERSON CITY, MO 65102 1-888-ASK-MODOT (1-888-275-6636)

MoDOT

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CMT PROJECT NO. 24006489-00

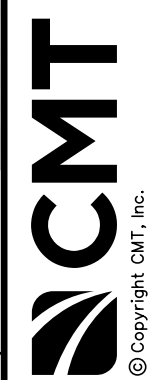


LIGHTING LEGEND

	CONTROLLER, LIGHTING		LED-A LUMINAIRE
	CONTROLLER, LIGHTING (EXISTING)		LED-B LUMINAIRE
	WOOD POST		LED-C LUMINAIRE
	POWER SUPPLY		P.S. POWER SOURCE
	JUNCTION BOX		PULL BOX (EXISTING)
	PULL BOX CONCRETE TYPE 1		PULL BOX CONCRETE TYPE 2
	PULL BOX PREFORMED TYPE 1		PULL BOX PREFORMED TYPE 2
	CONDUIT, RIGID (TRENCH)		CONDUIT, RIGID (PUSHED)
	CONDUIT, RIGID (MEDIAN)		CONDUIT, RIGID (BRIDGE)
	CONDUIT, RIGID (EXISTING)		CABLE-CONDUIT (EXISTING)
			CABLE-CONDUIT

EASTBOUND I-44 LIGHTING SHEET

LIGHTING SHEET 1 OF 1

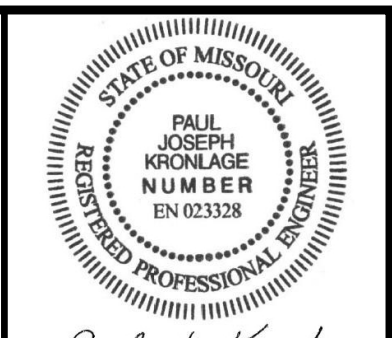


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CMT PROJECT NO. 24006489-00

STRIPING LEGEND

- - - - - 6" INTERMITTENT WHITE (IW)
- ===== 6" SOLID WHITE (SW)
- ===== 6" SOLID YELLOW (SY)
- 6" DOTTED WHITE (DW)
- ===== 12" SOLID WHITE (SW)



Paul J. Kronlage
 08/09/2024 5:09:48 PM
 Paul J. Kronlage - Civil
 MO PE - 023328

DATE PREPARED
 8/9/2024

ROUTE
 I-44 MO

DISTRICT SHEET NO.
 CD 17

COUNTY
 PULASKI

JOB NO.
 JCD0111

CONTRACT ID.

PROJECT NO.

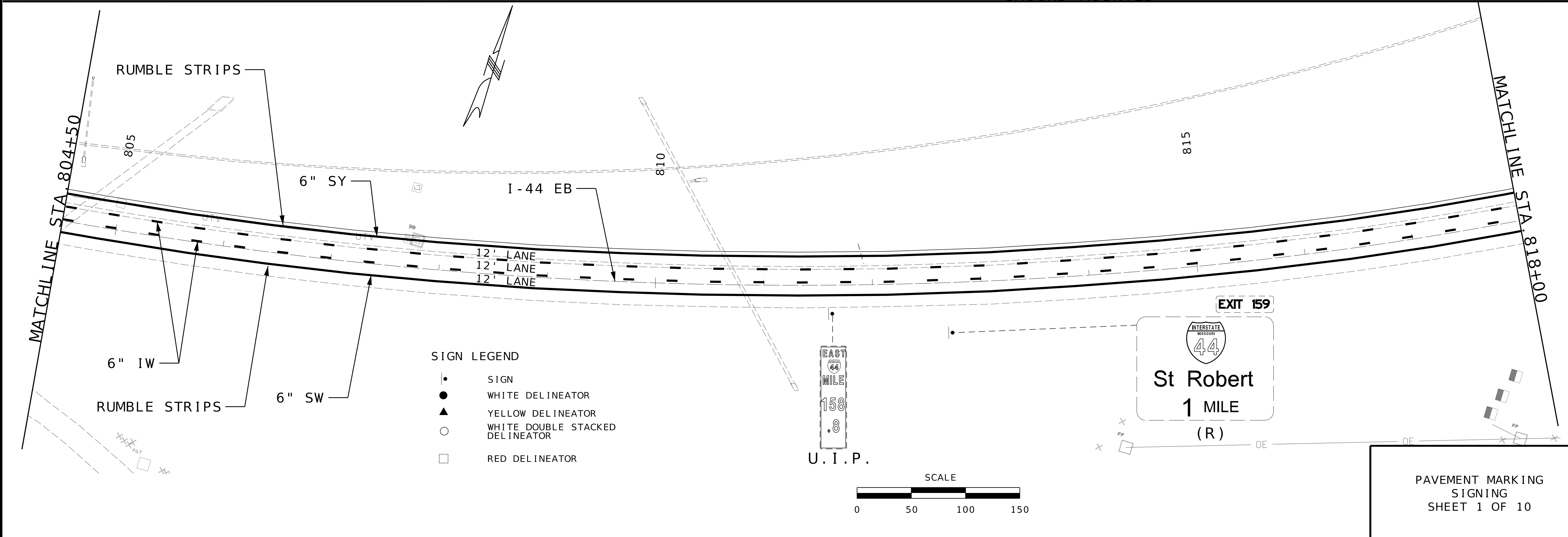
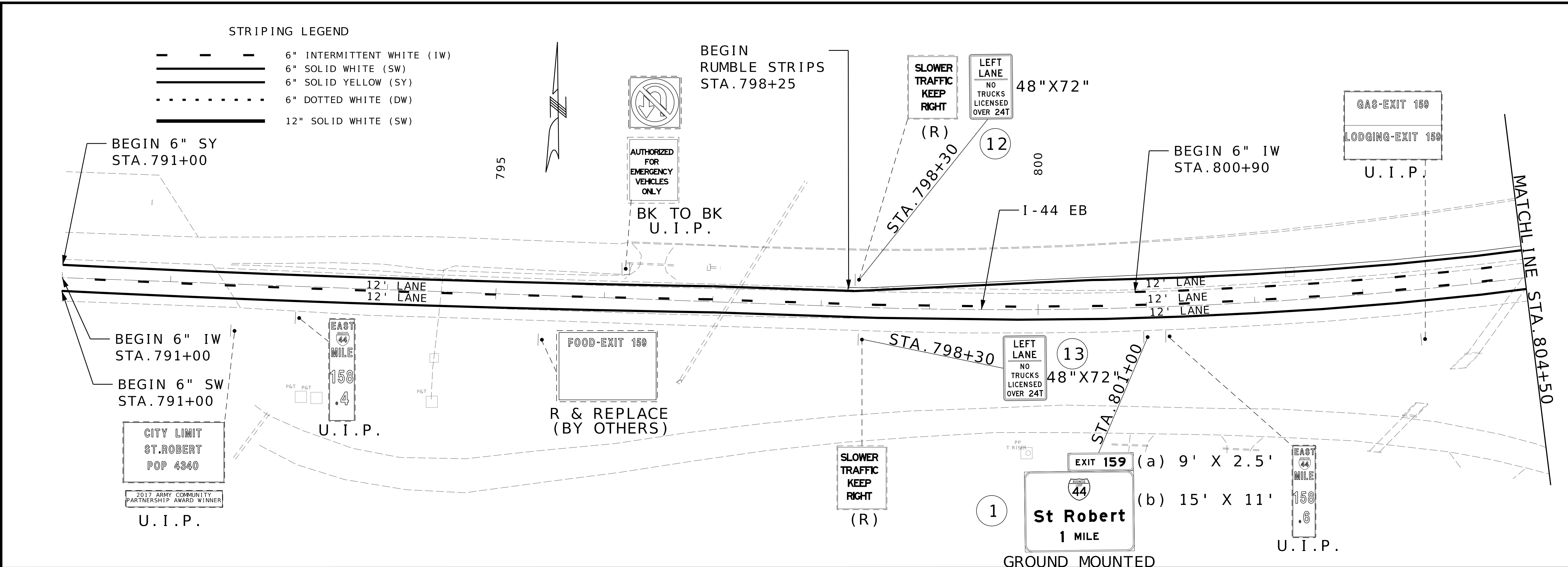
BRIDGE NO.

DATE	DESCRIPTION

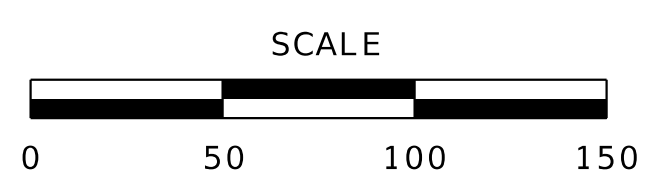
MISSOURI HIGHWAYS AND TRANSPORTATION
 COMMISSION

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

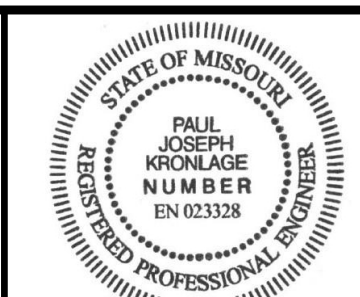
EFK Moen
 Civil Engineering Design
 13523 Barrett Parkway Dr
 Suite 250
 St. Louis, MO 63021
 Phone 314-394-3100
 Fax 314-394-3199
 Missouri Certificate of Authority: 001578



- SIGN LEGEND
- SIGN
 - WHITE DELINEATOR
 - ▲ YELLOW DELINEATOR
 - WHITE DOUBLE STACKED DELINEATOR
 - RED DELINEATOR



PAVEMENT MARKING
 SIGNING
 SHEET 1 OF 10



Paul J. Kronlage
 08/09/2024 5:10:16 PM
 Paul J. Kronlage - Civil
 MO PE - 023328

DATE PREPARED
 8/9/2024

ROUTE STATE
 I - 44 MO
 DISTRICT SHEET NO.
 CD 18

COUNTY
 PULASKI
 JOB NO.
 JCD0111
 CONTRACT ID.

PROJECT NO.
 BRIDGE NO.

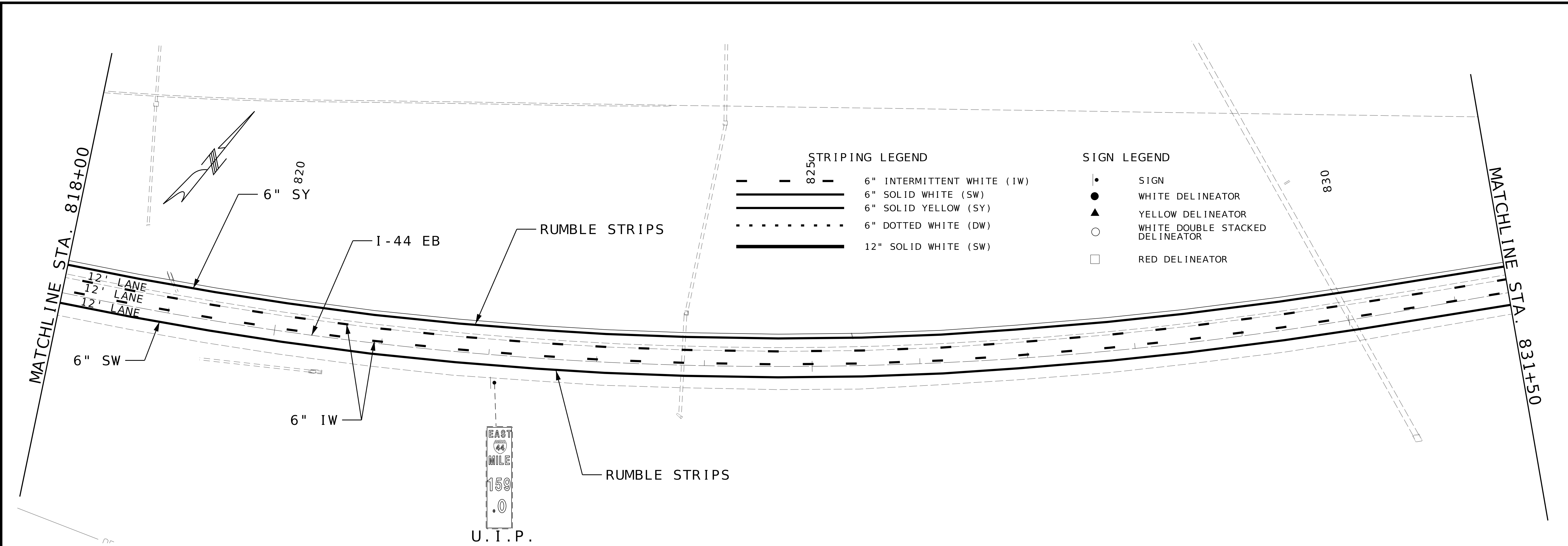
DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION
 COMMISSION



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EFK Moen
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 Fax 314-394-3199
 Missouri Certificate of Authority: 001578



STRIPING LEGEND

--- 6" INTERMITTENT WHITE (IW)

—— 6" SOLID WHITE (SW)

—— 6" SOLID YELLOW (SY)

... 6" DOTTED WHITE (DW)

—— 12" SOLID WHITE (SW)

SIGN LEGEND

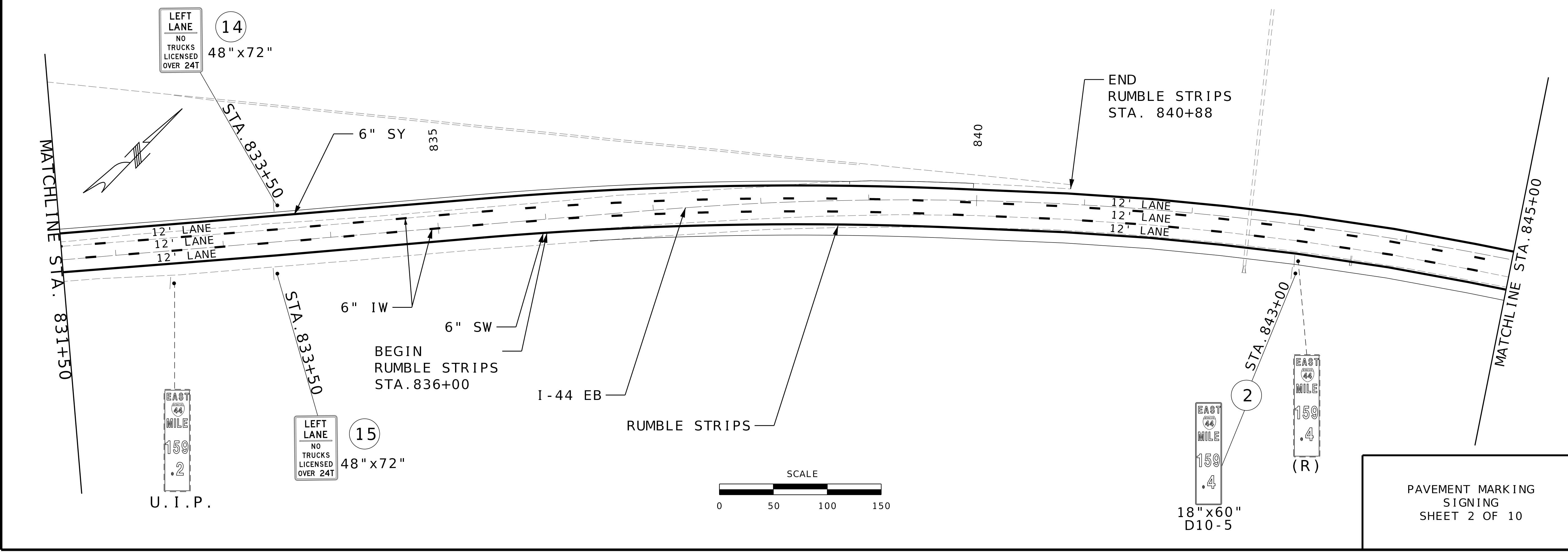
• SIGN

● WHITE DELINEATOR

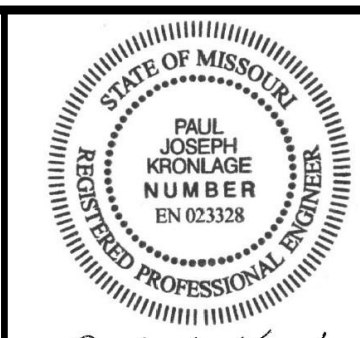
▲ YELLOW DELINEATOR

○ WHITE DOUBLE STACKED DELINEATOR

□ RED DELINEATOR



PAVEMENT MARKING
 SIGNING
 SHEET 2 OF 10



Paul J. Kronlage - Civil
MO PE - 023328

DATE PREPARED
8/9/2024

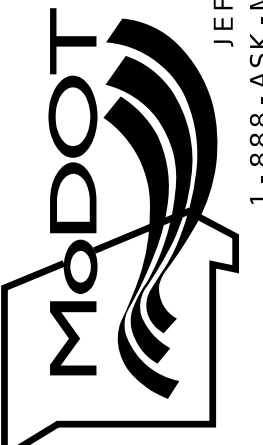
ROUTE I-44 STATE MO
DISTRICT CD SHEET NO. 19

COUNTY PULASKI
JOB NO. JCD0111
CONTRACT ID.

PROJECT NO.
BRIDGE NO.

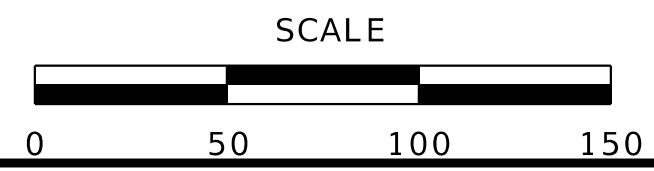
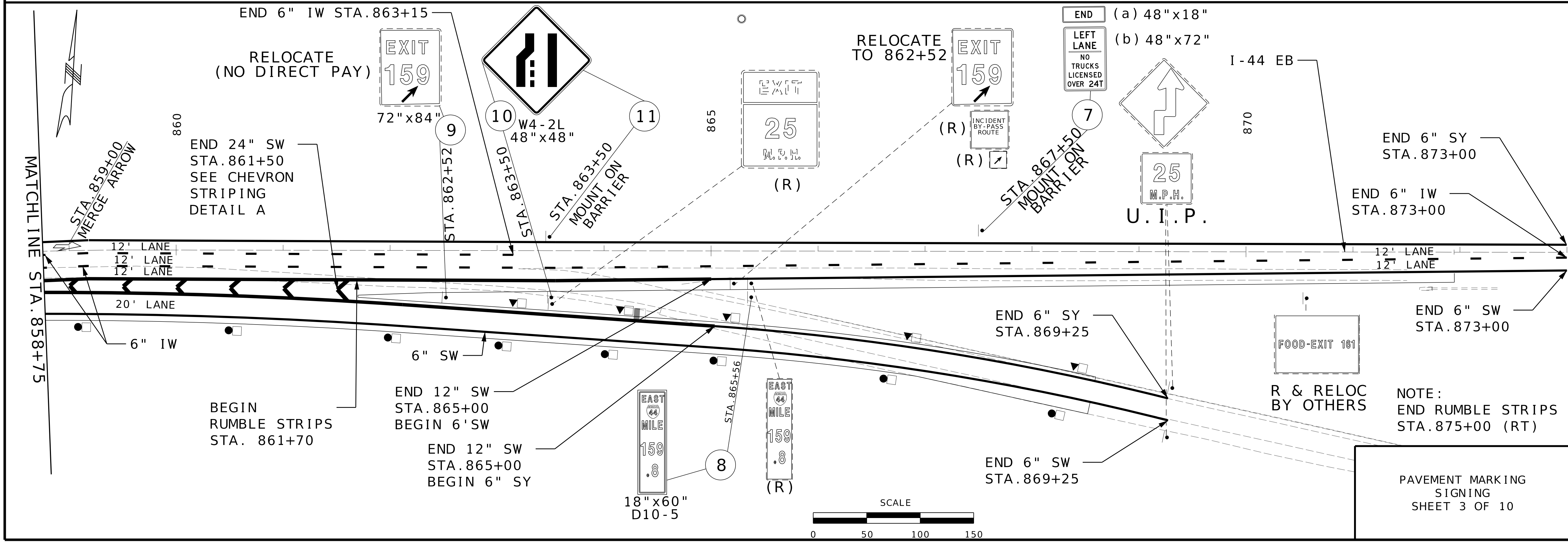
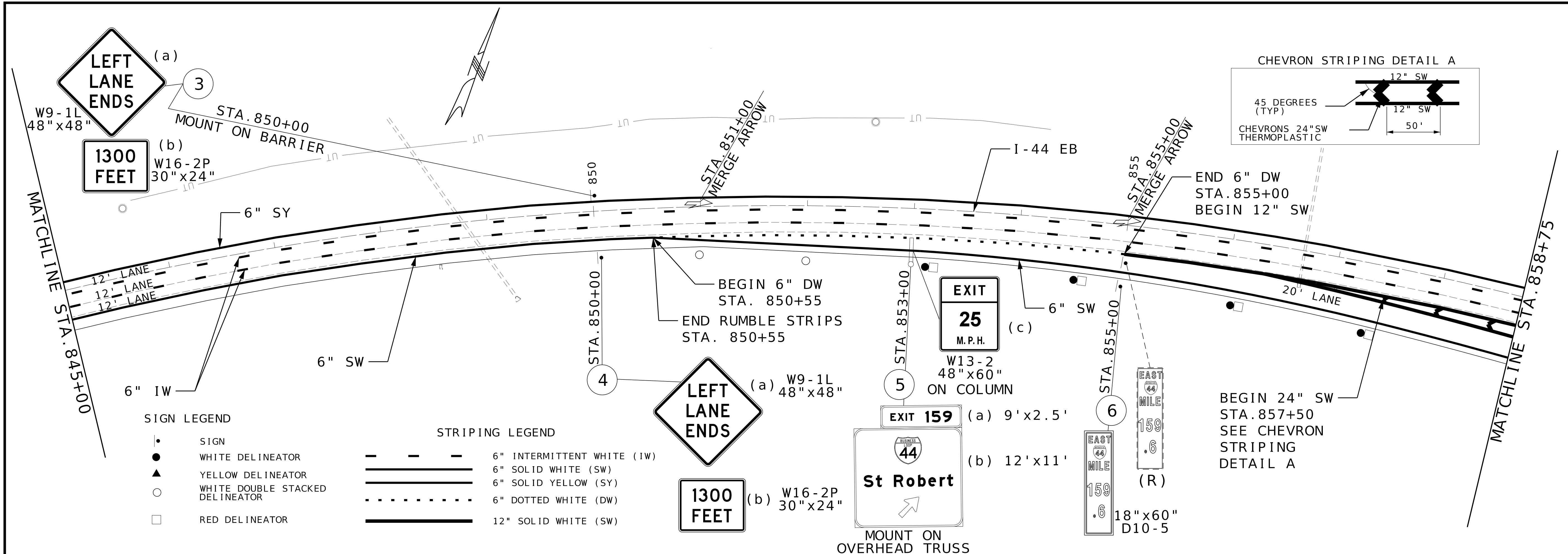
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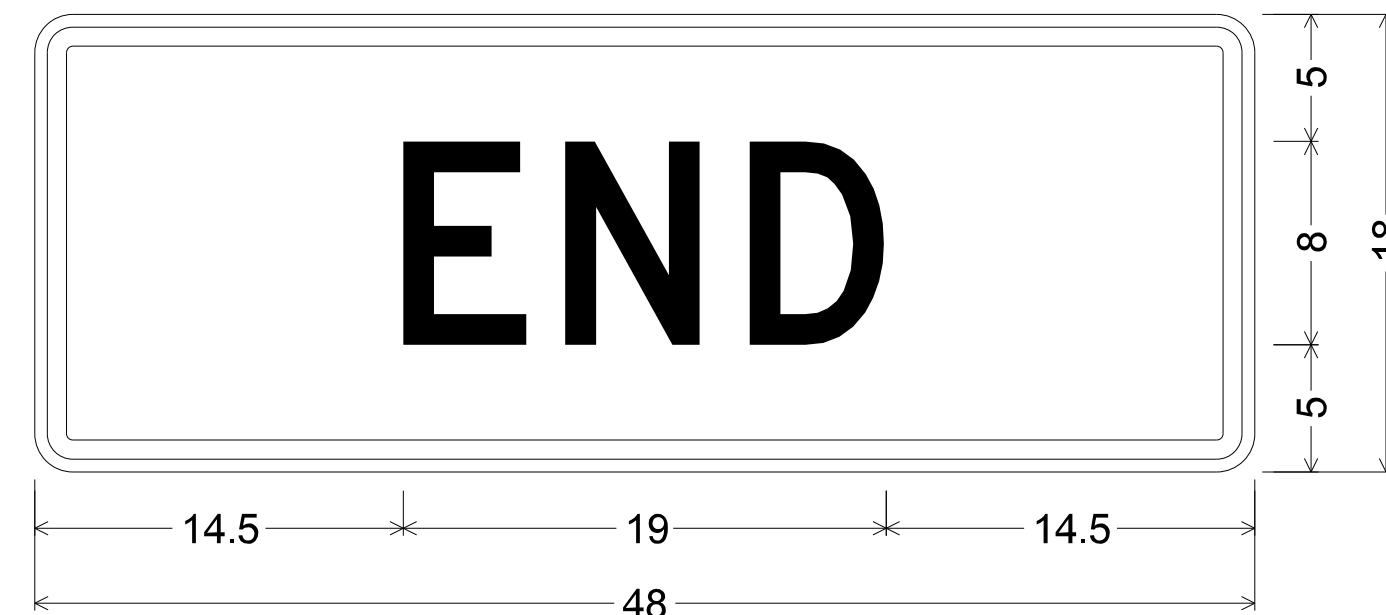
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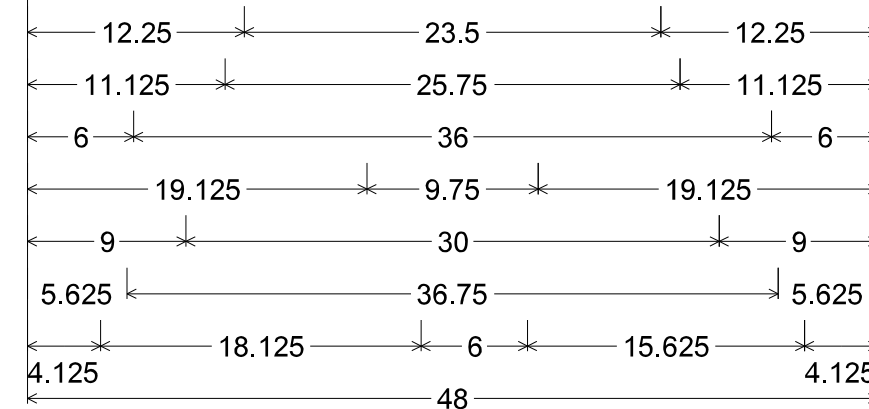
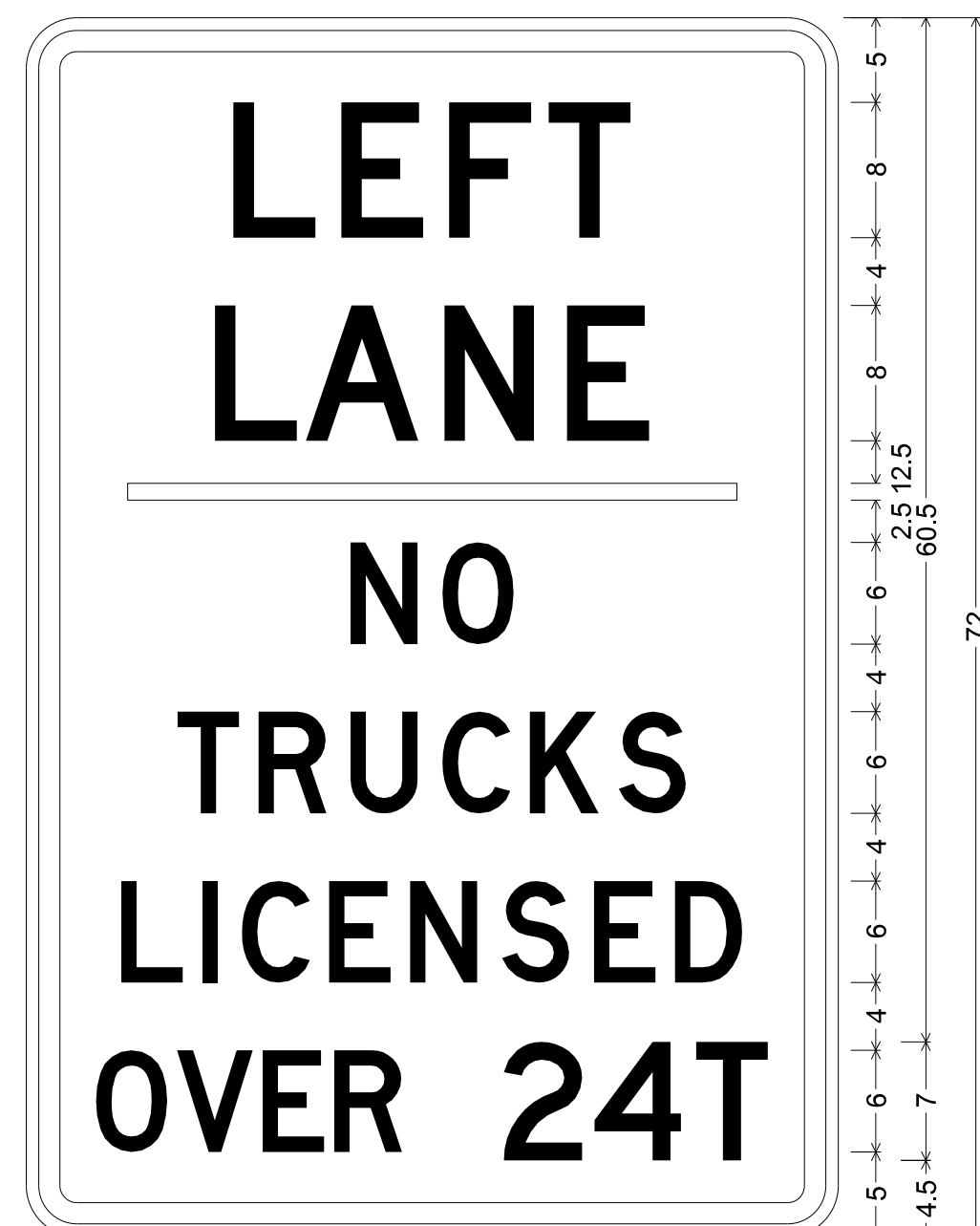




W16-25P SHF-FLAT SHEET FLUORESCENT;
1.500" Radius, 0.750" Border, 0.500" Indent, Black on, Yellow;
"END", D;

Table of letter and object lefts

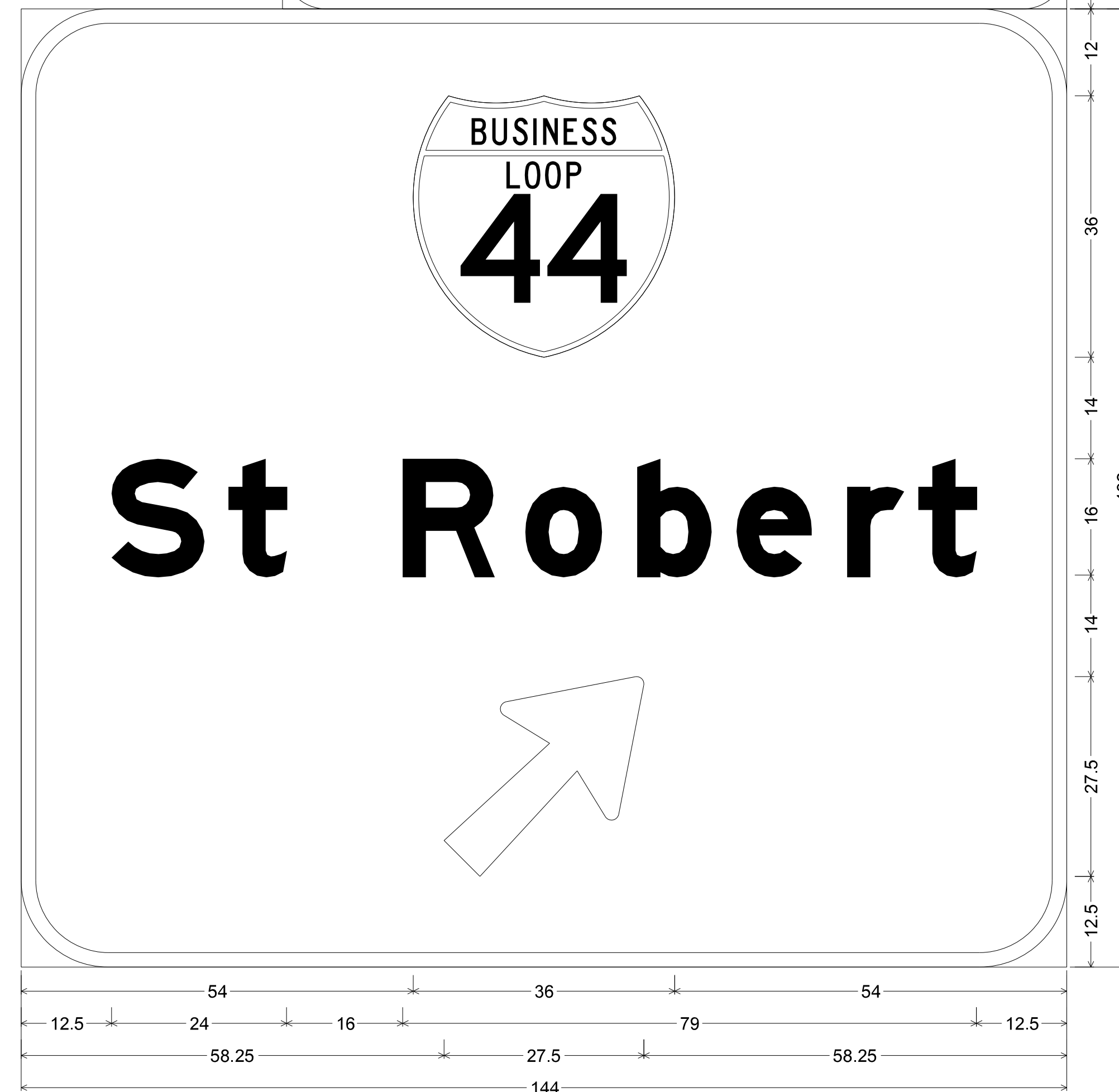
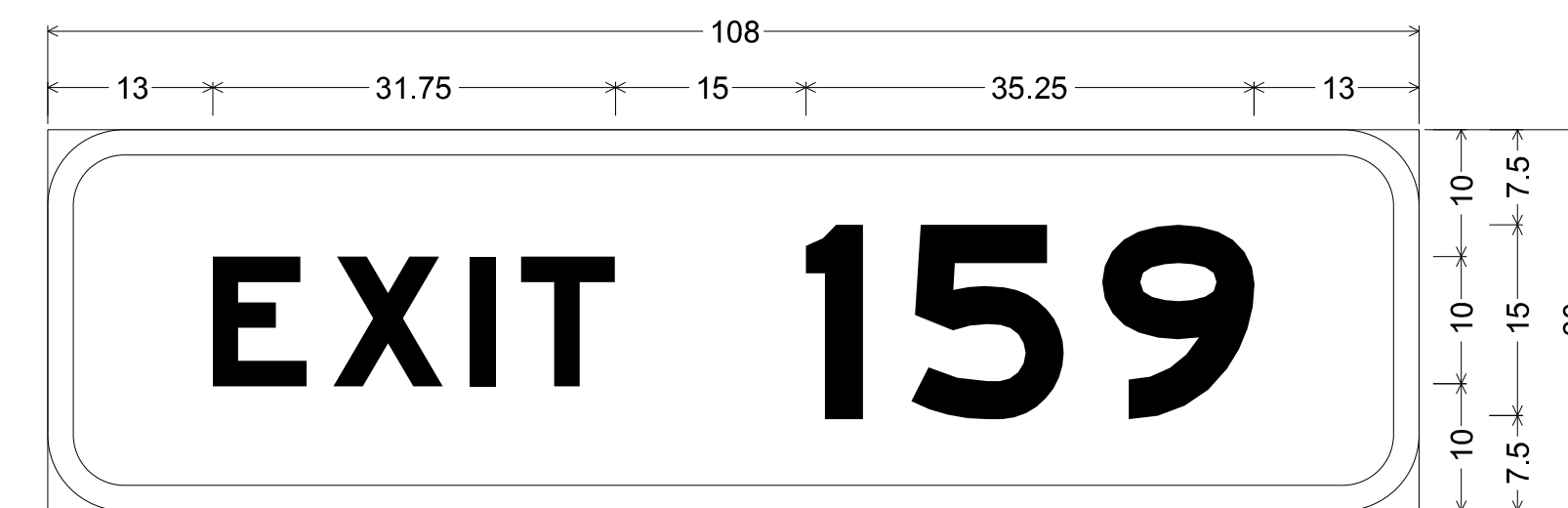
E	N	D
14.500	20.875	28.125



R5-32 SH-FLAT SHEET;
3.000" Radius, 1.250" Border, 0.750" Indent, Black on, White;
"LEFT", D; "LANE", D; "NO", D; "TRUCKS", D;
"LICENSED", D; "OVER 24T", D 50% spacing;
Table of letter and object lefts

L	E	F	T				
12.250	18.625	25.000	30.875				
L	A	N	E				
11.125	16.500	24.750	32.000				
6.000							
N	O						
19.125	24.625						
T	R	U	C	K	S		
9.000	13.750	19.125	24.625	29.750	35.000		
L	I	C	E	N	S	E	D
5.625	10.375	12.750	17.875	22.625	28.125	33.625	38.375
O	V	E	R	2	4	T	
4.125	8.875	14.000	18.250	28.250	33.625	39.625	

SIGN 5
CANTILEVER



E1-5P ST-STRUCTURAL;
6.000" Radius, 2.000" Border, White on, Green;
"EXIT", E Mod; "159", E Mod;

E1-1 ST-STRUCTURAL;
12.000" Radius, 2.000" Border, White on, Green;
"St Robert", E Mod; Arrow 160 - 35.000" 45';
Table of letter and object lefts

E	X	I	T	I	S	9	
13.000	22.500	33.250	37.250	59.750	68.000	83.000	
Ⓜ							
54.000							
S	t	R	o	b	e	r	t
12.500	28.500	52.500	69.500	84.875	98.500	113.750	123.500
↖							
58.250							

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PAVEMENT MARKING
SIGNING
SHEET 5 OF 10

STATE OF MISSOURI
PAUL JOSEPH KRONLAGE
NUMBER EN 023328
PROFESSIONAL ENGINEER
Paul J. Kronlage
08/10/2024 1:40:56 PM
Paul J. Kronlage - Civil
MO PE - 023328

DATE PREPARED
8/9/2024

ROUTE	STATE
I-44	MO
DISTRICT	SHEET NO.
CD	21

COUNTY
PULASKI

JOB NO.
JCD0111

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)

EFK Moen
Civil Engineering Design

13523 Barrett Parkway Dr
Suite 250
St. Louis, MO 63021
Phone 314-394-3100
Fax 314-394-3199

Missouri Certificate of Authority: 001578

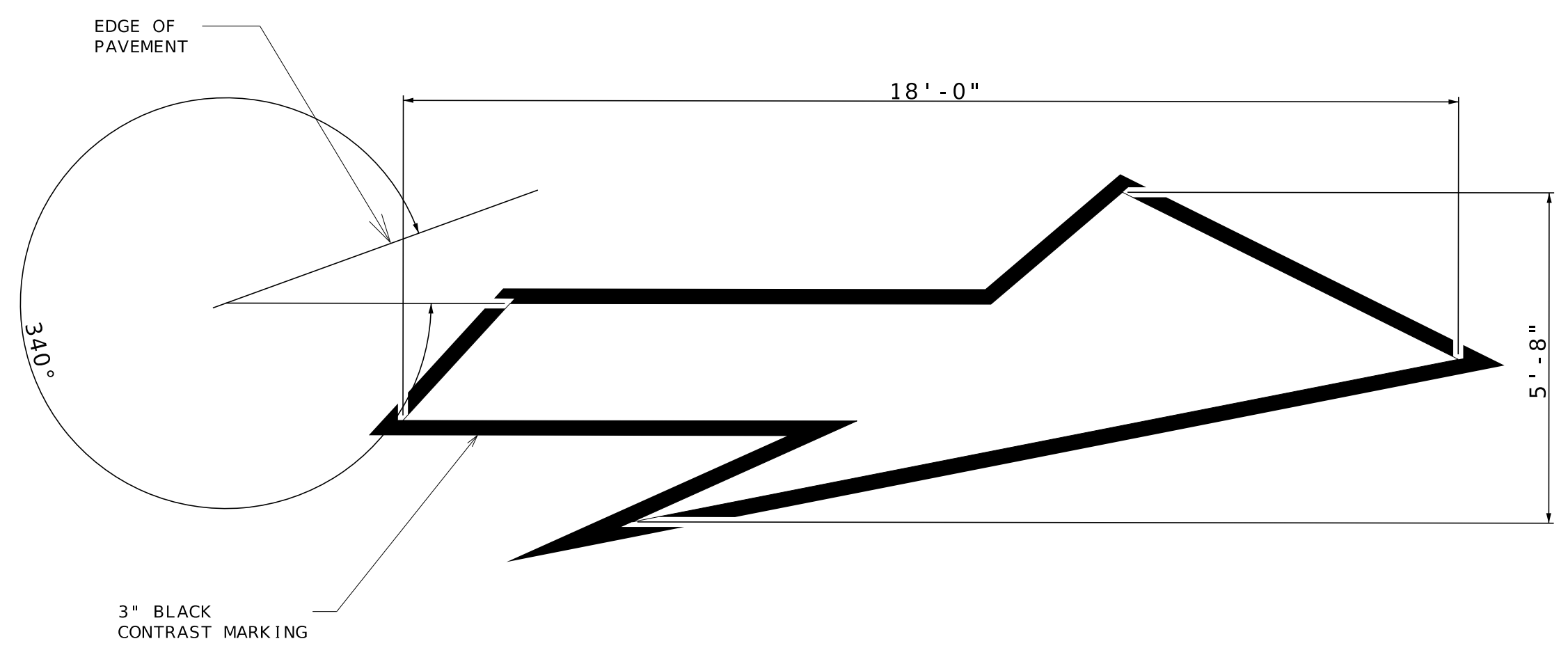
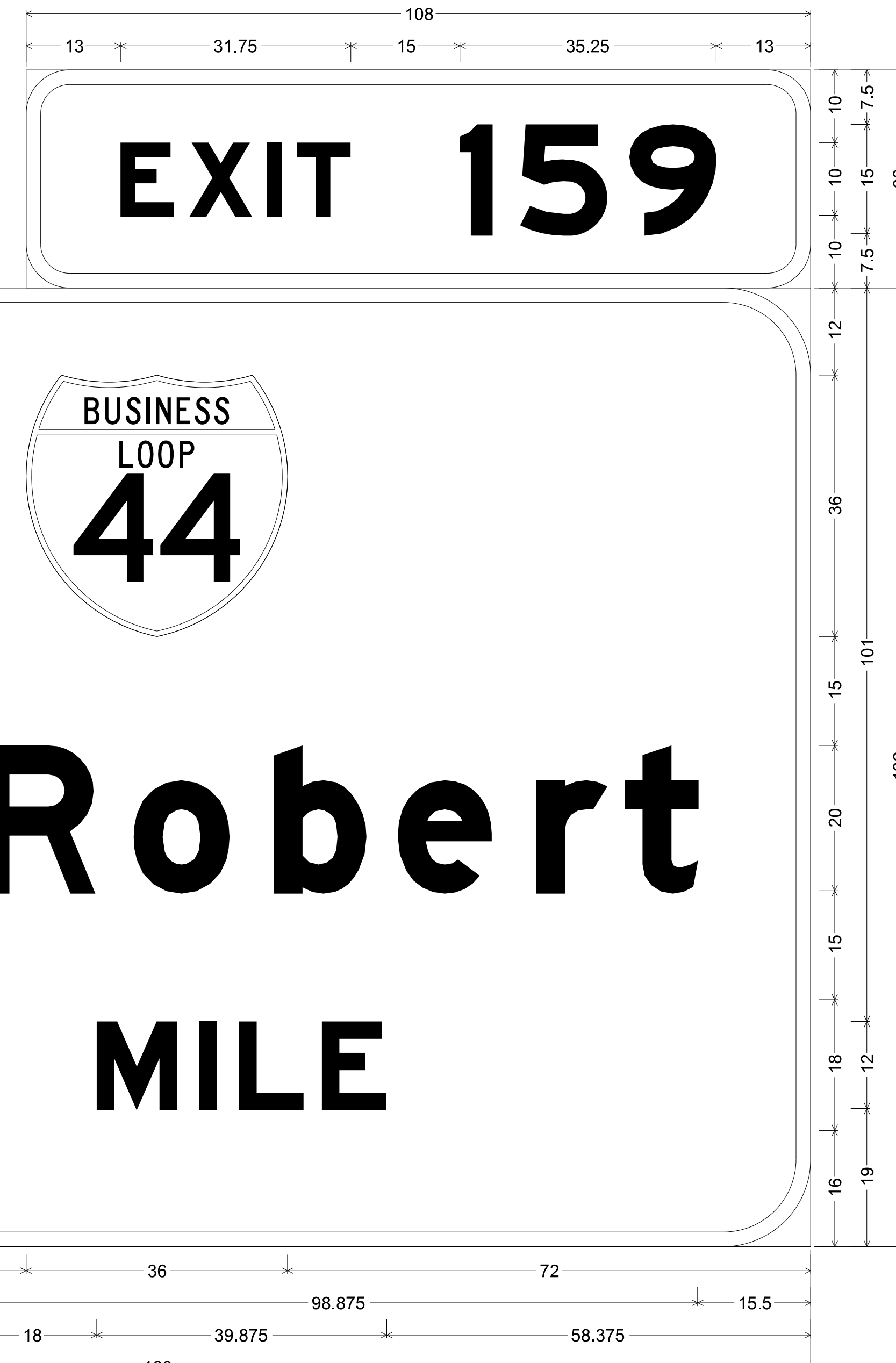
SIGN 1 GROUND MOUNT

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Paul J. Kronlage
08/10/2024 1:40:29 PM
Paul J. Kronlage - Civil
MO PE - 023328

DATE PREPARED	
8/9/2024	
ROUTE	STATE
I - 44	MO
DISTRICT	SHEET NO.
CD	22
COUNTY	
PULASKI	
JOB NO.	
JCD0111	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	



MERGE ARROW
DETAIL

E1-5P ST-STRUCTURAL;
6.000" Radius, 2.000" Border, White on, Green;
"EXIT", E Mod; "159", E Mod;

E1-1 ST-STRUCTURAL;
12.000" Radius, 2.000" Border, White on, Green;
"St Robert", E Mod; "1", E Mod; "MILE", E Mod;

Table of letter and object lefts

E	X	I	T	1	5	9	
13.000	22.500	33.250	37.250	59.750	68.000	83.000	
Ⓢ							
72.000							
S	t	R	o	b	e	r	t
15.500	35.750	65.625	86.750	106.000	123.125	142.250	154.500
1	M	I	L	E			
58.375	81.750	95.875	101.375	112.750			

PAVEMENT MARKING
SIGNING
SHEET 6 OF 10

DATE	DESCRIPTION

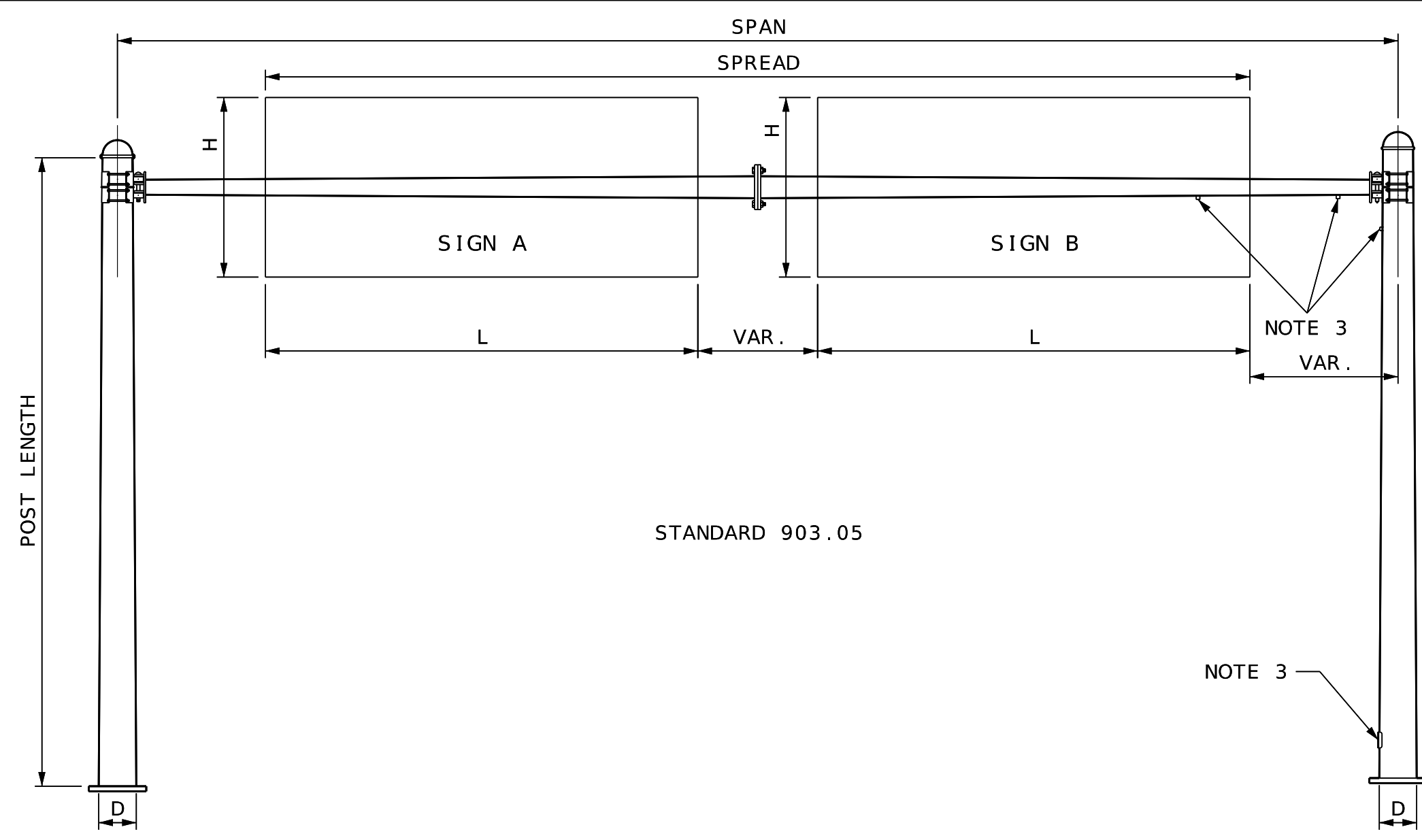
MISSOURI HIGHWAYS AND TRANSPORTATION
COMMISSION

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

EFK Moen
Civil Engineering Design

13523 Barrett Parkway Dr
Suite 250
St. Louis, MO 63021
Phone 314-394-3100
Fax 314-394-3199

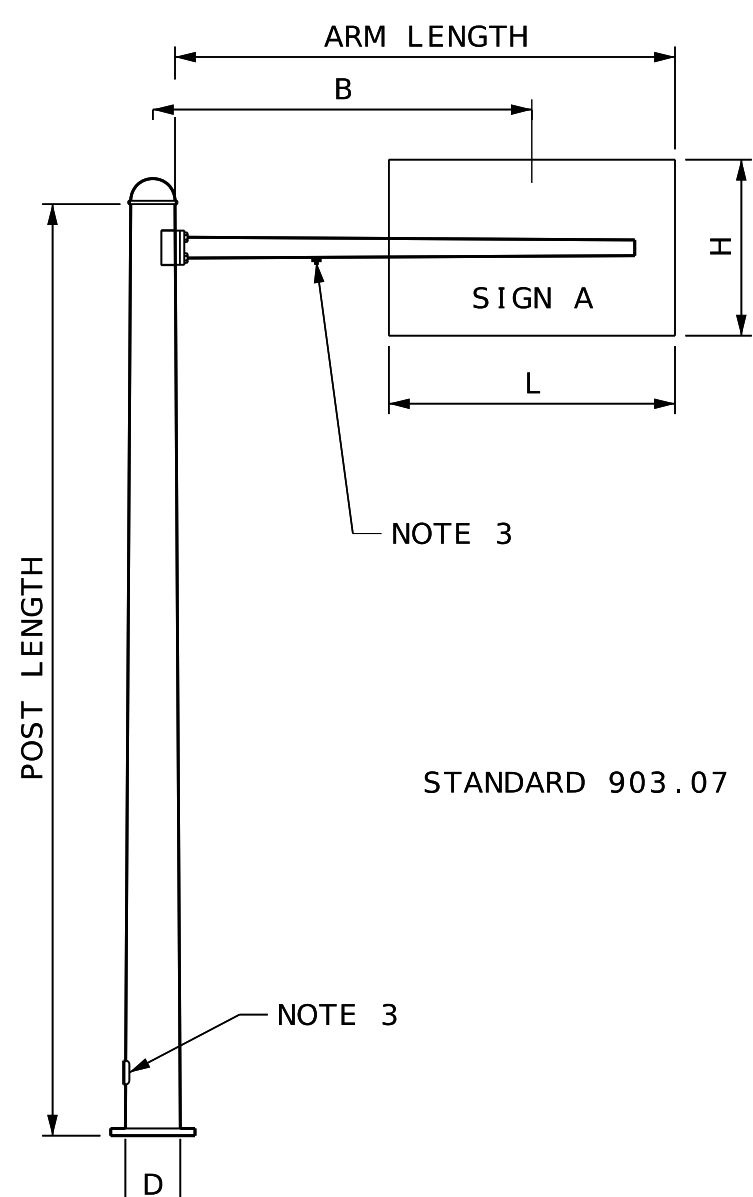
Missouri Certificate of Authority: 001578



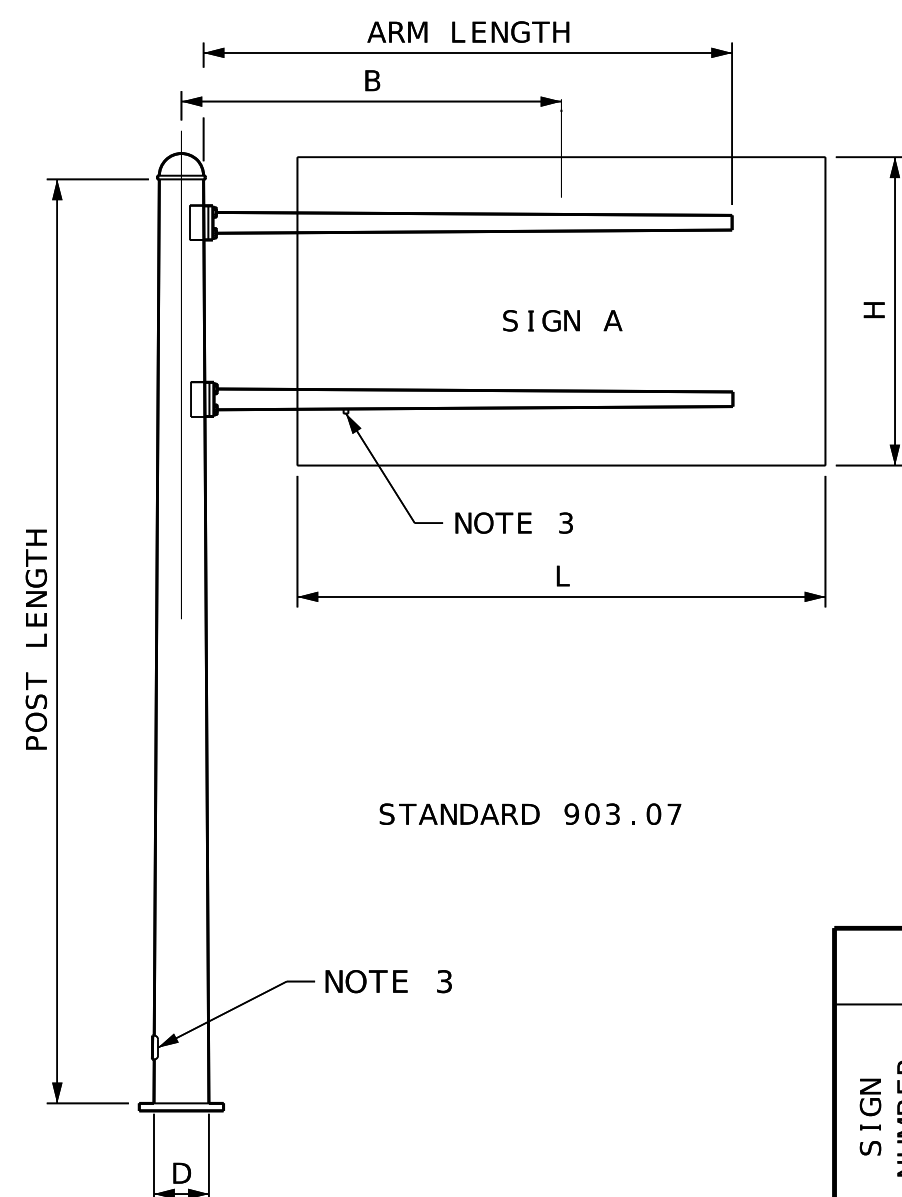
POST NUMBER 1

ONE TUBE - TYPE S

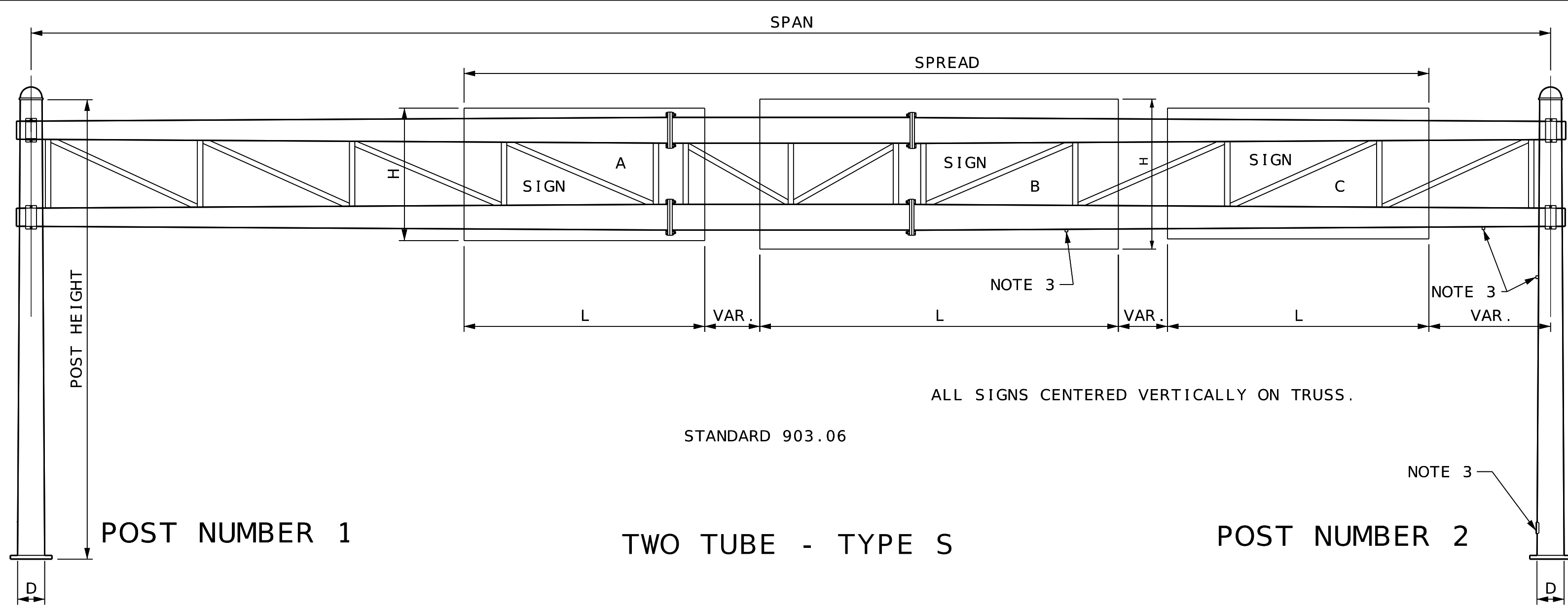
POST NUMBER 2



ONE TUBE - TYPE C



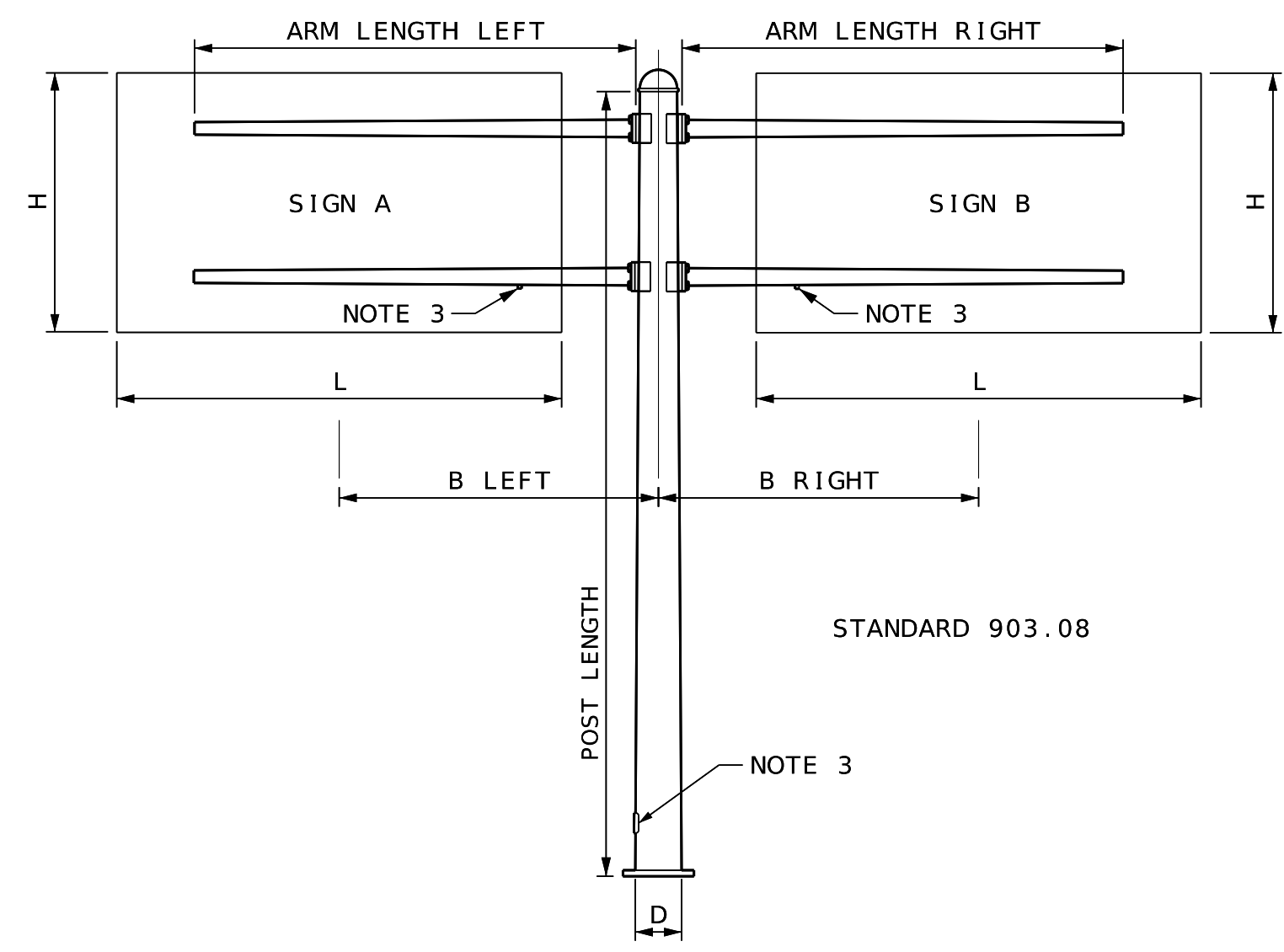
TWO TUBE - TYPE C



POST NUMBER 1

TWO TUBE - TYPE S

POST NUMBER 2



TWO TUBE - TYPE B

TUBULAR STEEL SUPPORT NUMBERING SYSTEM

THE FIRST SYMBOL (LETTER) INDICATES TYPE AS, C FOR CANTILEVER, B FOR BUTTERFLY, S FOR SPAN TYPE.

THE SECOND SYMBOL (NUMBER) INDICATES SINGLE (1) OR DOUBLE (2) MAST ARMS OR TRUSS.

THE THIRD SYMBOL (NUMBER) INDICATES GAGE - POST
 7 = 7 GAUGE (.1793") 77 = 7 + 7 GAUGE (.3586")
 3 = 3 GAUGE (.2500") 33 = 3 + 3 GAUGE (.5000")
 0 = 0 GAUGE (.3125") 00 = 0 + 0 GAUGE (.6250")

THE FOURTH SYMBOL (NUMBER) INDICATES DIAMETER IN INCHES OF THE POST BASE.

THE FIFTH SYMBOL (NUMBER) INDICATES LENGTH IN FEET OF ARM OR SPAN.

EXAMPLE: DESIGN NUMBER B-20018-24 INDICATES BUTTERFLY TYPE, TWO ARMS, 2-PLY, 0-GAUGE, 18" DIAMETER AT BASE OF POST & 24' MAST ARMS.

NOTES

1. ALL POSTS, BEAMS, MAST ARMS, ANGLES, BRACKETS & ETC. SHALL BE HOT DIP GALVANIZED AFTER FABRICATION.
2. SHOP DRAWINGS ARE NOT REQUIRED.
3. HANDHOLES AND 1/4" BLIND HALF COUPLINGS REQUIRED ON DESIGNATED POSTS. HANDHOLES SHALL BE PLACED ON RIGHT HAND SHOULDER SIDE OF TRUSSES.
4. STRUCTURES DESIGNED FOR TOTAL SIGN AREA COMMENSURATE WITH HEIGHT OF SIGN AND REQUIRED VERTICAL CLEARANCE.
5. DESIGN SPECIFICATIONS: AASHTO STANDARD SPECIFICATIONS FOR STRUCTURAL SUPPORTS FOR HIGHWAY SIGNS, LUMINAIRES, AND TRAFFIC SIGNALS - 1985.

TUBULAR STEEL SUPPORT DESIGN DATA STANDARDS 903.05 THRU 903.08

SIGN NUMBER	STATION	LOCATION	STANDARD NUMBER	TYPE	SPAN OR ARM	B LENGTH		CONCRETE FOOTINGS	SIGN DATA															TOTAL					
						POST LENGTH	NO. 2		SPREAD	SIGN A			SPACE	SIGN B			SPACE	SIGN C			SPACE	SIGN D			SPACE	SIGN E	SPACE	SQ FT	
										FT	FT	CU YDS		L	H	FT-IN.		FT-IN.	FT-IN.	L		H	FT-IN.						FT-IN.
5	853+00	44 EB	903.07	C	28-0	23-6	27	4.64																		155			
								PAY TOTAL	4.6																				



Paul J. Kronlage
 08/09/2024 5:12:15 PM
 Paul J. Kronlage - Civil
 MO PE - 023328

DATE PREPARED
 8/9/2024

ROUTE
 I-44

STATE
 MO

DISTRICT
 CD

SHEET NO.
 23

COUNTY
 PULASKI

JOB NO.
 JCD0111

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION	DATE

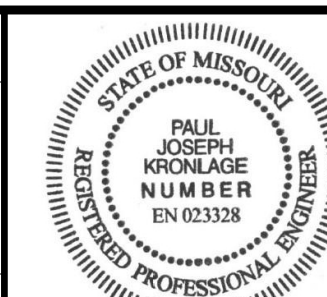
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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

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

D-34

PAVEMENT MARKING SIGNING SHEET 7 OF 10



Paul J. Kronlage
08/09/2024 5:12:33 PM
Paul J. Kronlage - Civil
MO PE - 023328

DATE PREPARED
8/9/2024

ROUTE STATE
I-44 MO

DISTRICT SHEET NO.
CD 24

COUNTY
PULASKI

JOB NO.
JCD0111

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DATE	DESCRIPTION

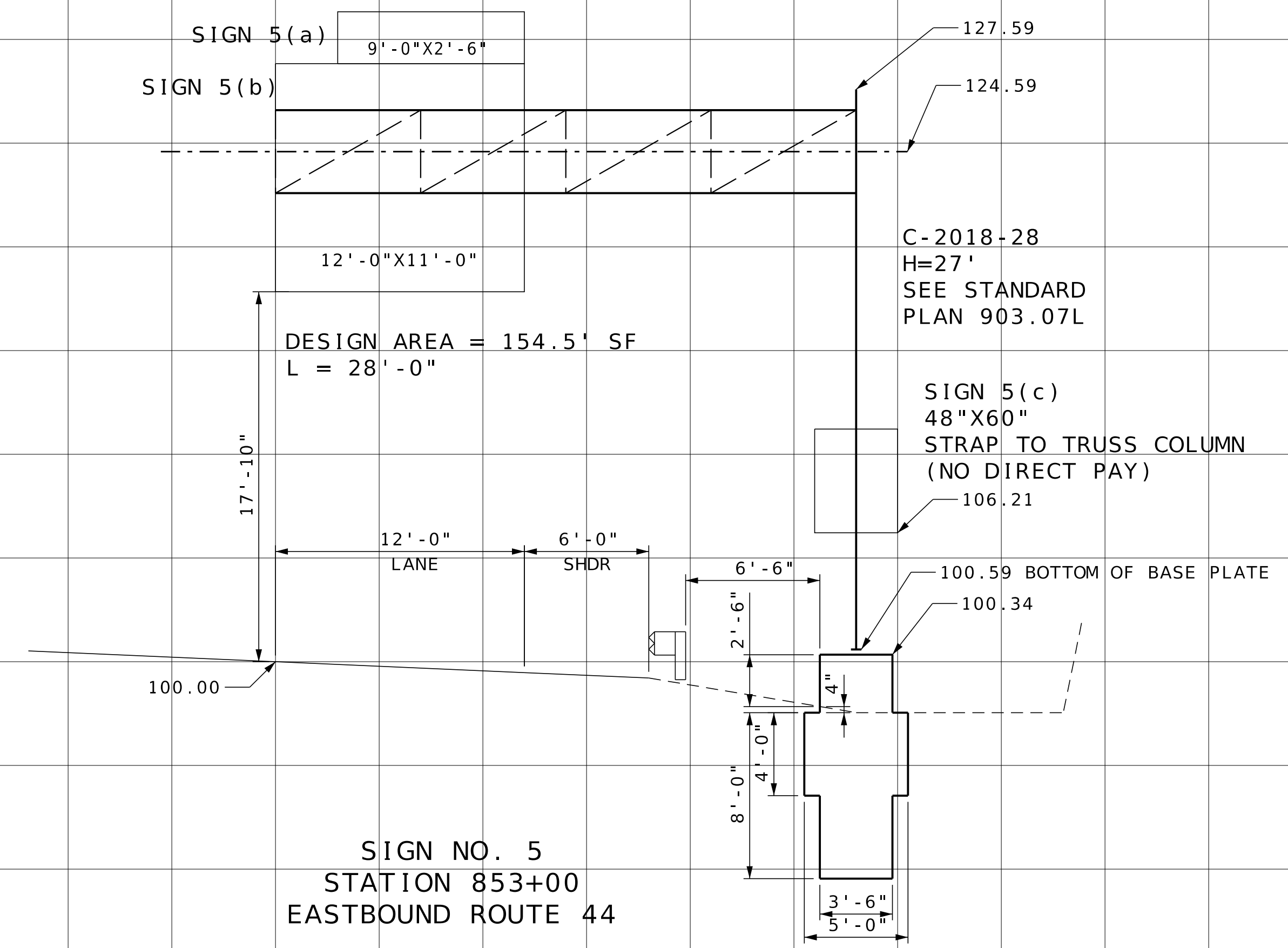
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION



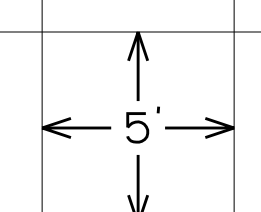
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
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EFK Moen
Civil Engineering Design

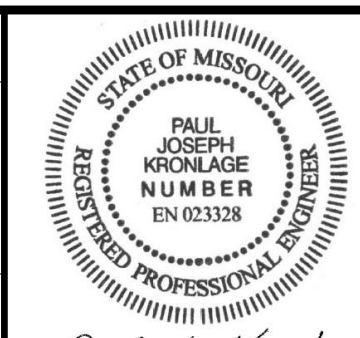
13523 Barrett Parkway Dr
Suite 250
St. Louis, MO 63021
Phone 314-394-3100
Fax 314-394-3199
Missouri Certificate of Authority: 001578



SIGN NO. 5
STATION 853+00
EASTBOUND ROUTE 44



PAVEMENT MARKING
SIGNING
SHEET 8 OF 10



Paul J. Kronlage
 08/09/2024 5:12:48 PM
 Paul J. Kronlage - Civil
 MO PE - 023328

DATE PREPARED
 8/9/2024

ROUTE STATE
 I-44 MO
 DISTRICT SHEET NO.
 CD 25

COUNTY
 PULASKI
 JOB NO.
 JCD0111
 CONTRACT ID.

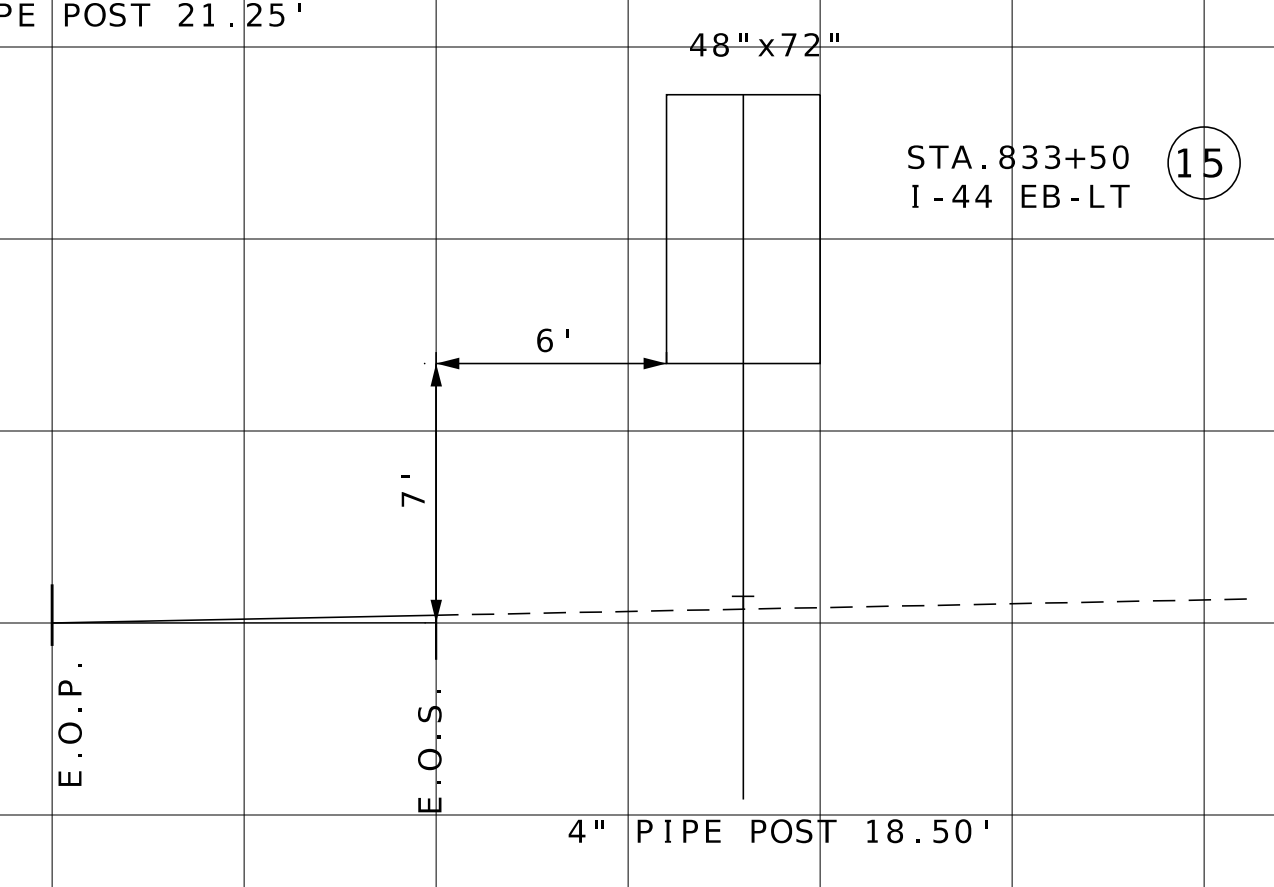
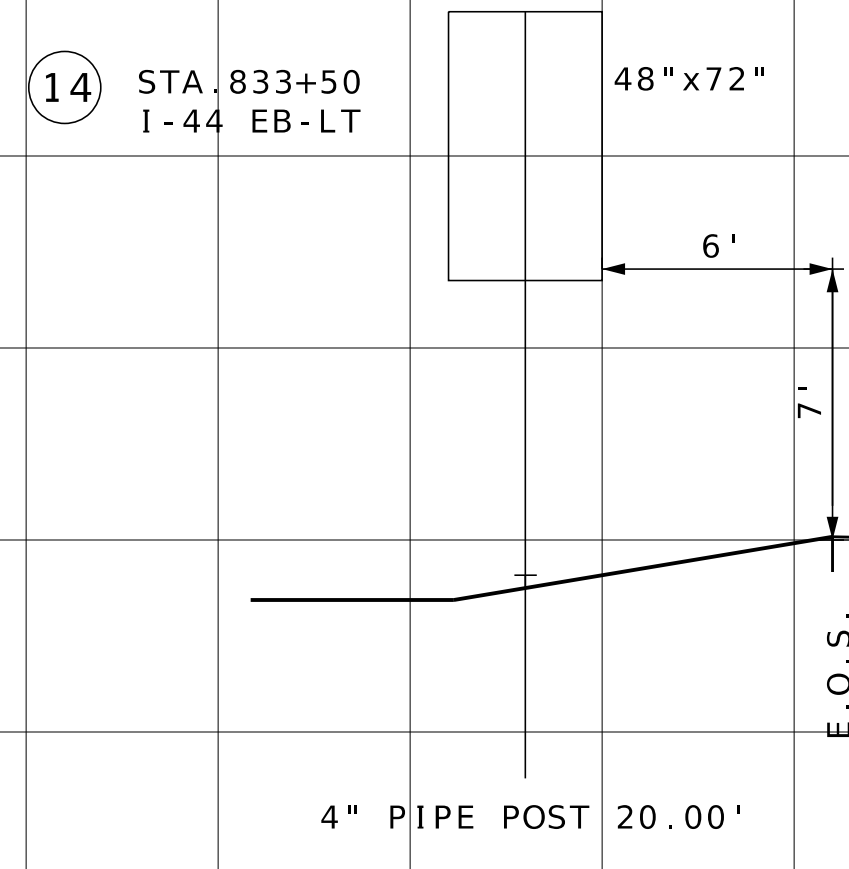
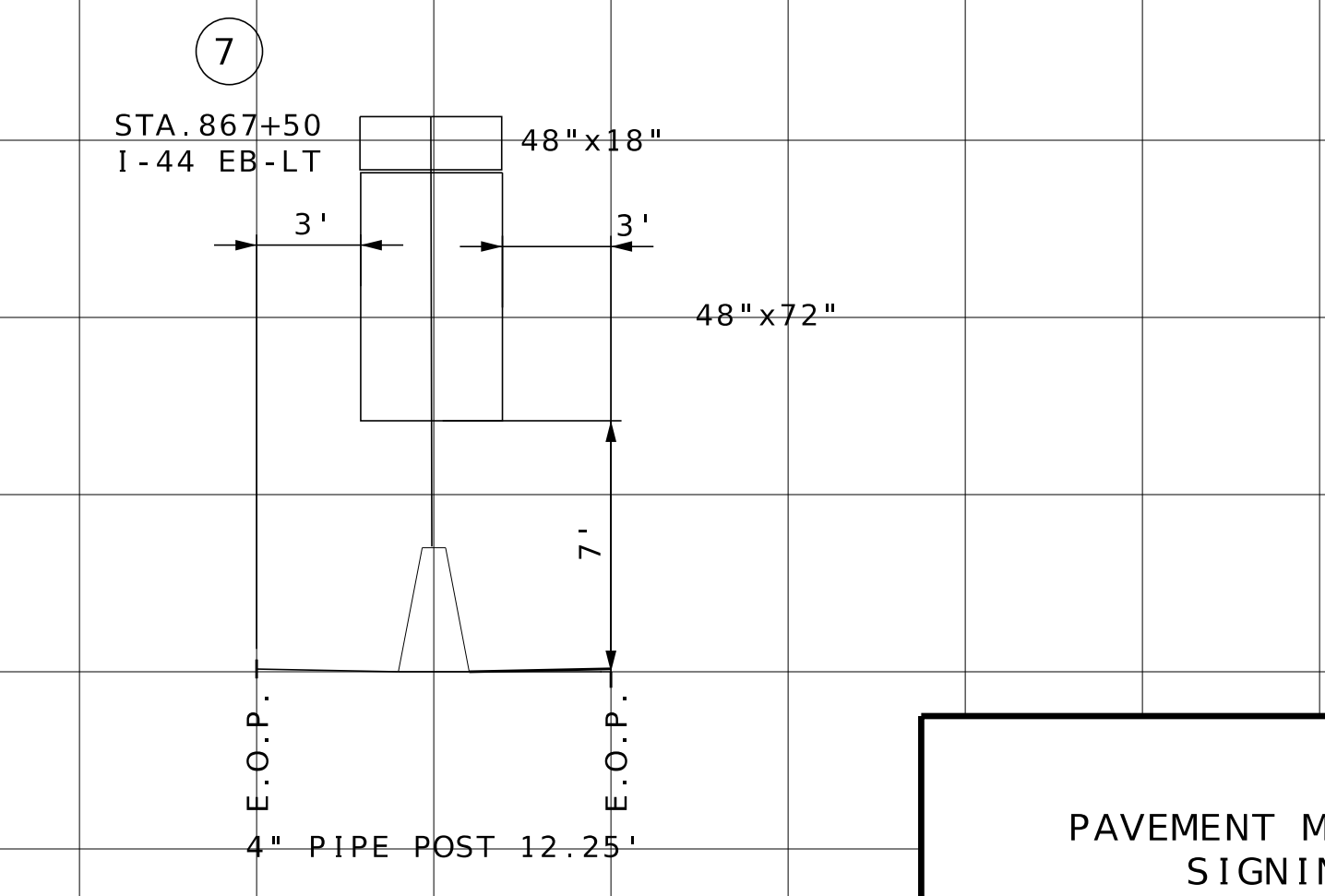
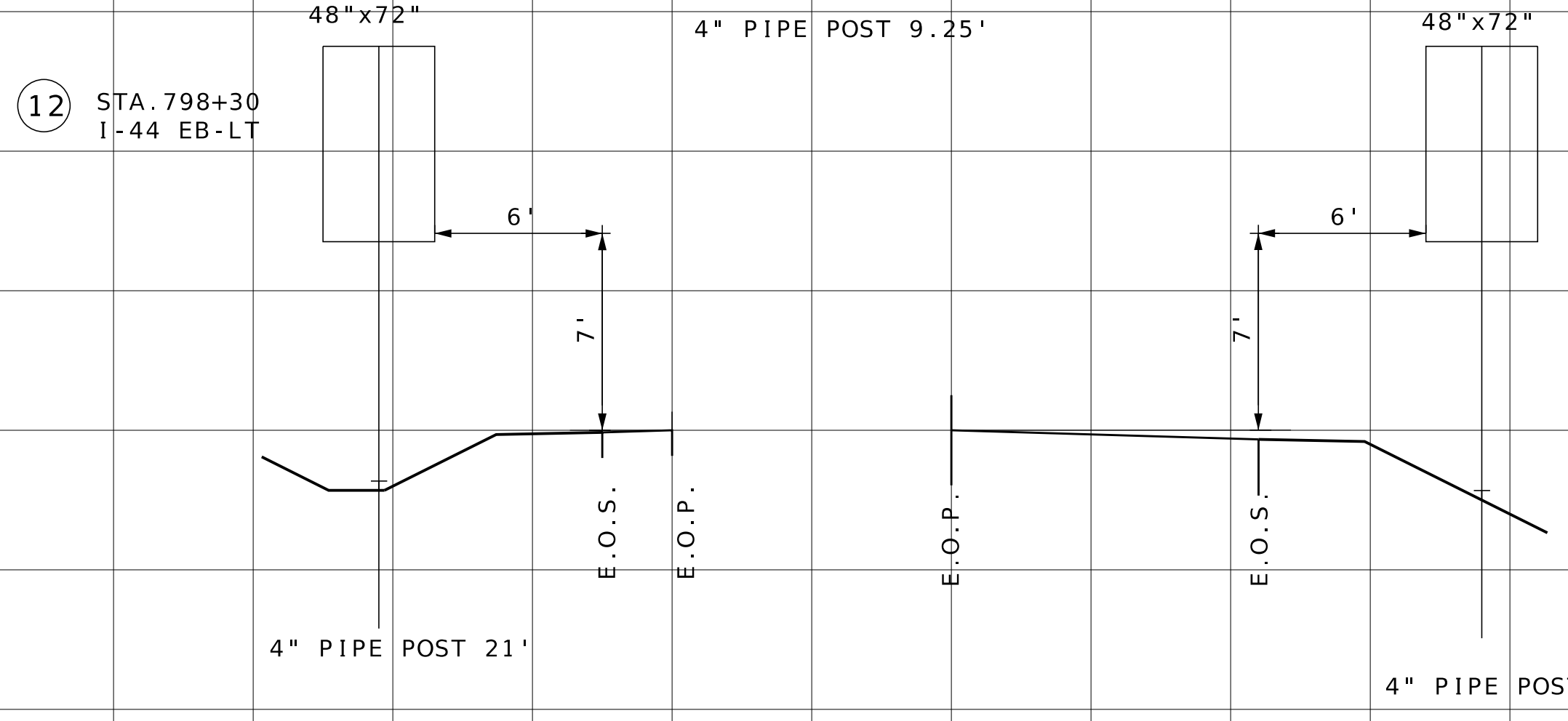
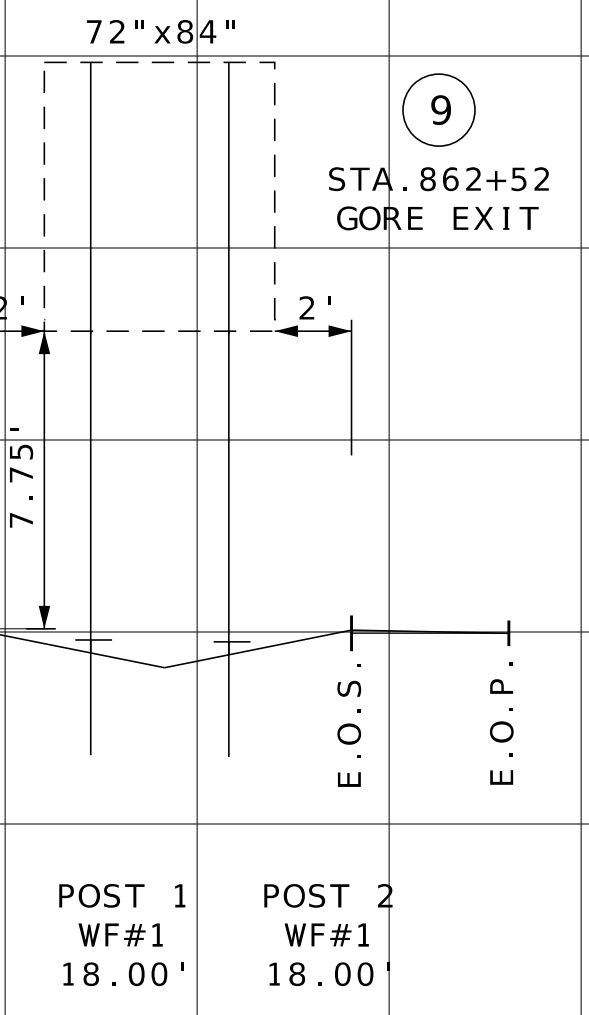
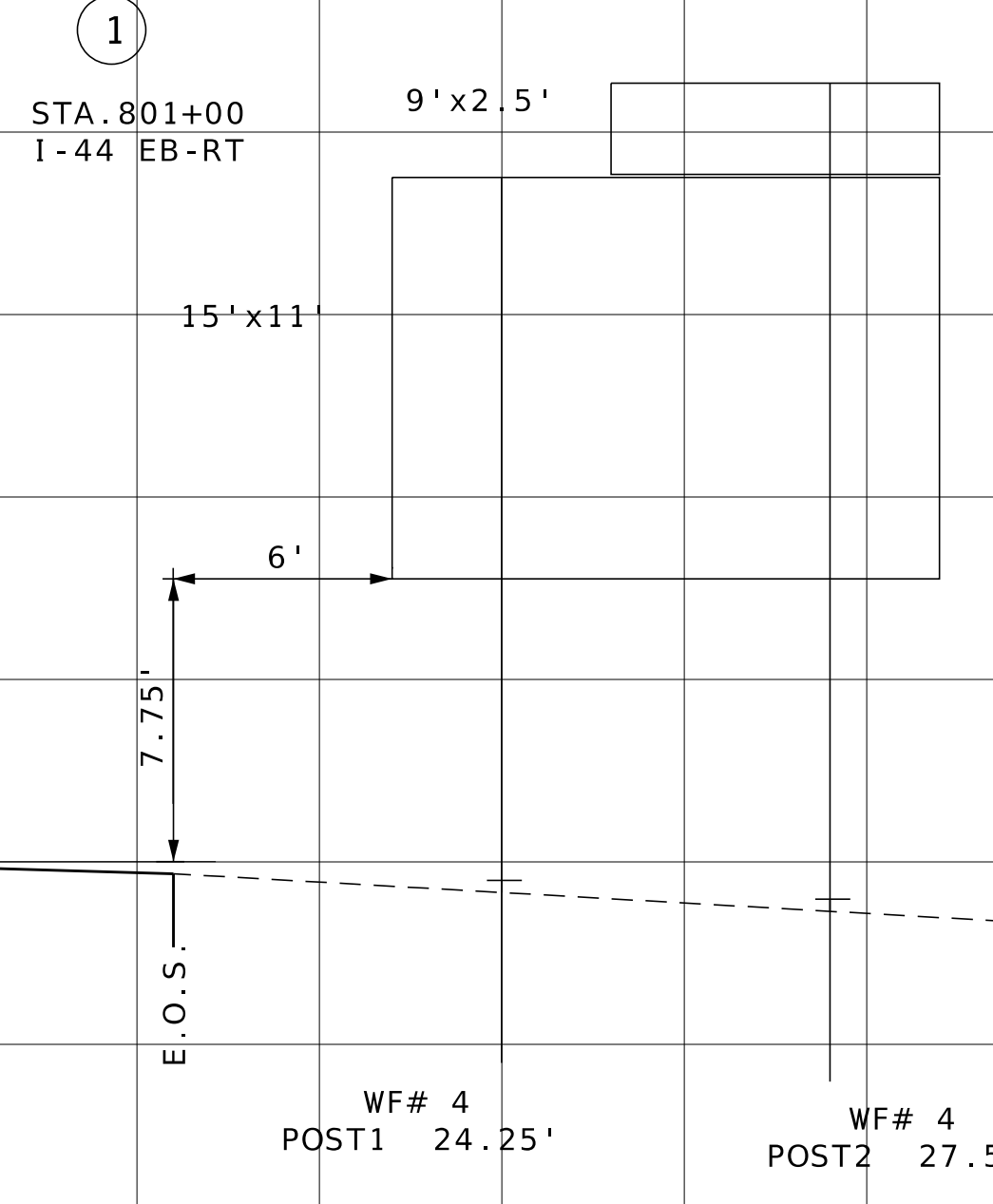
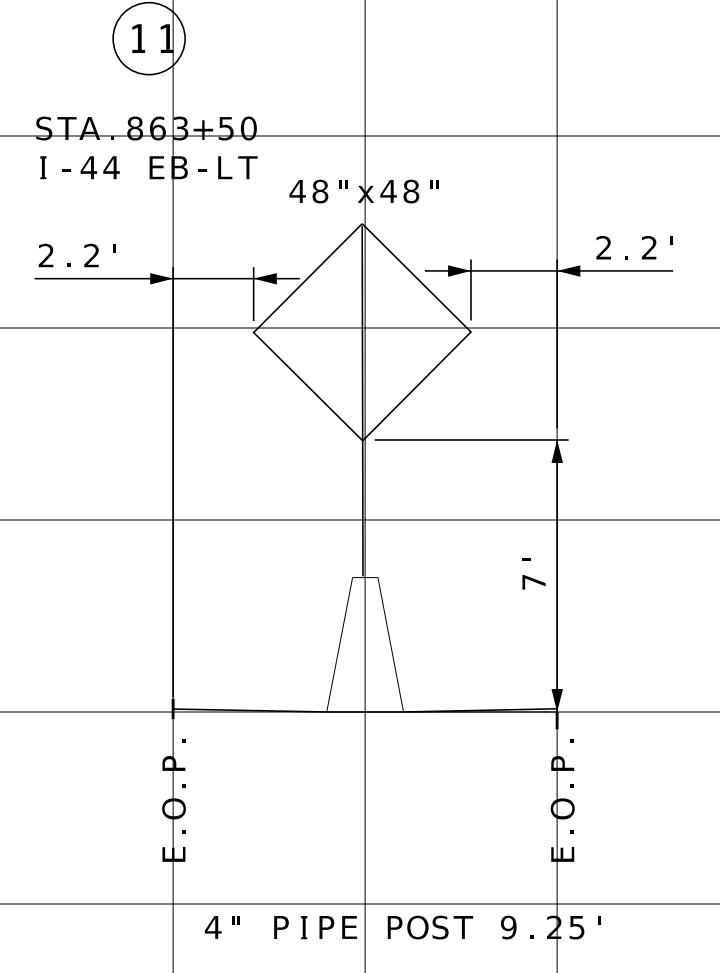
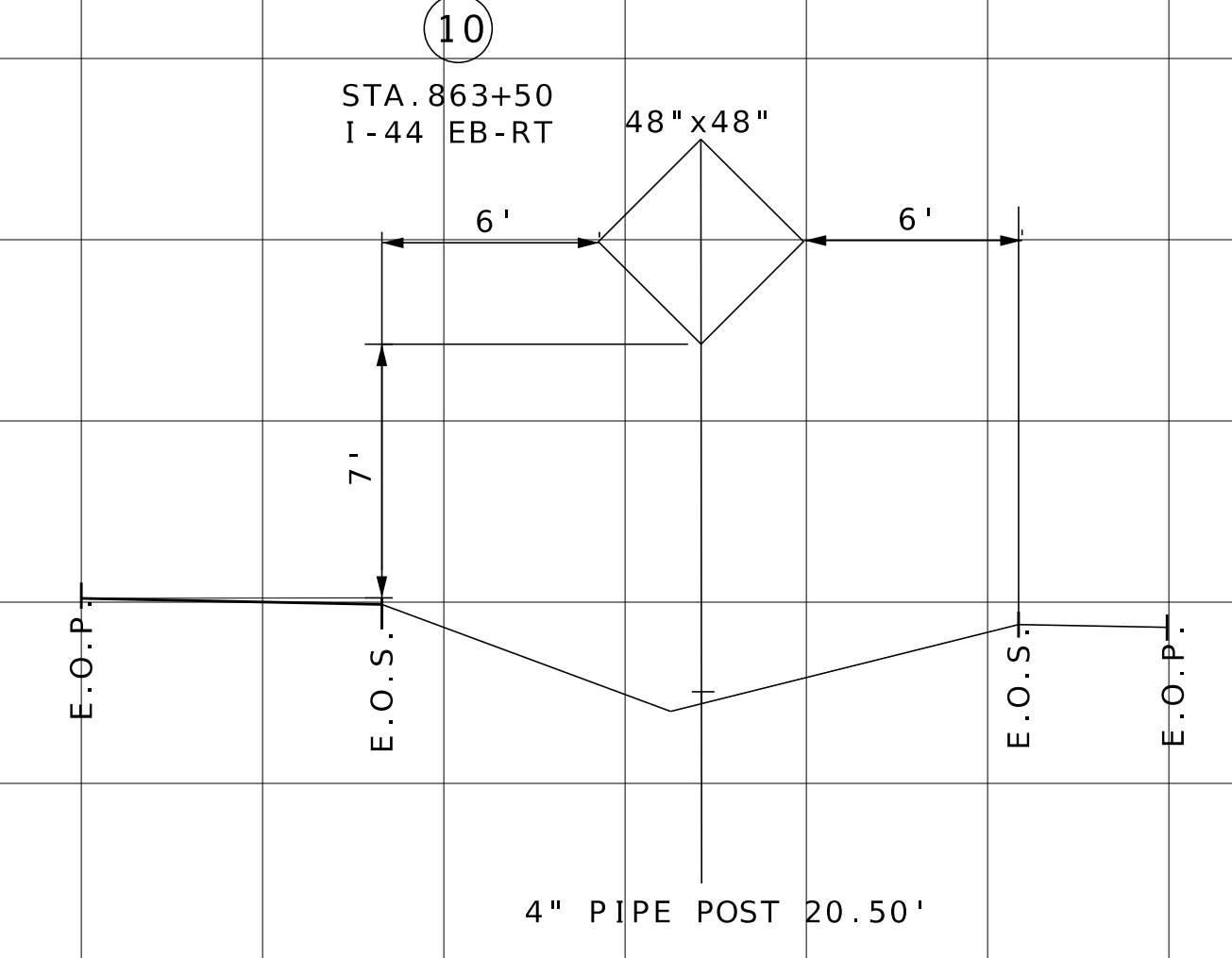
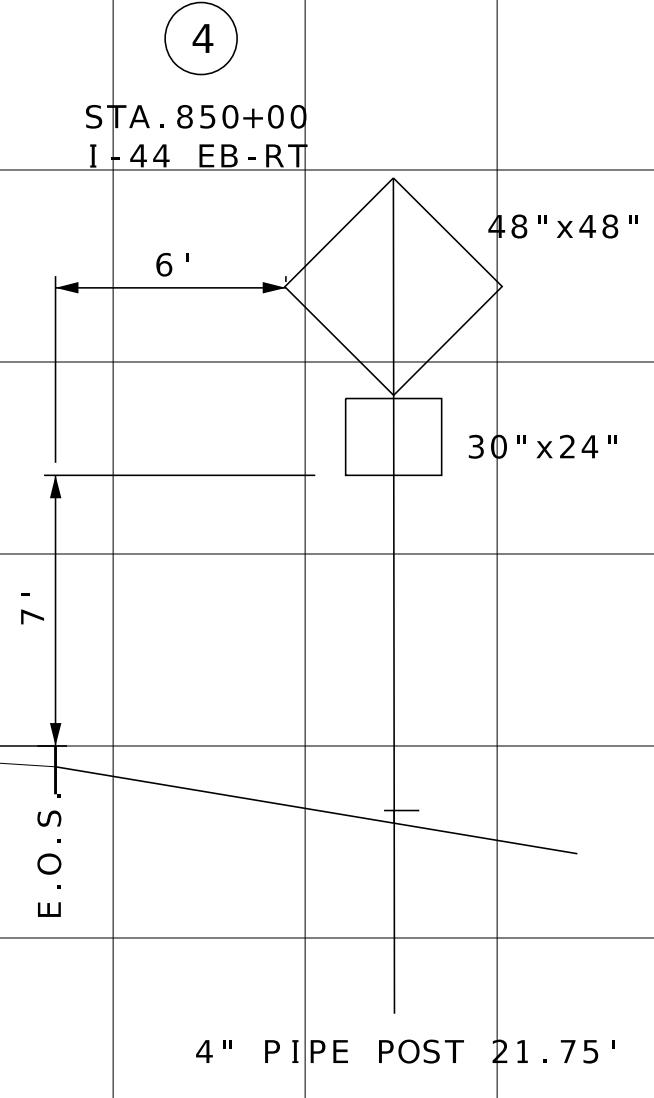
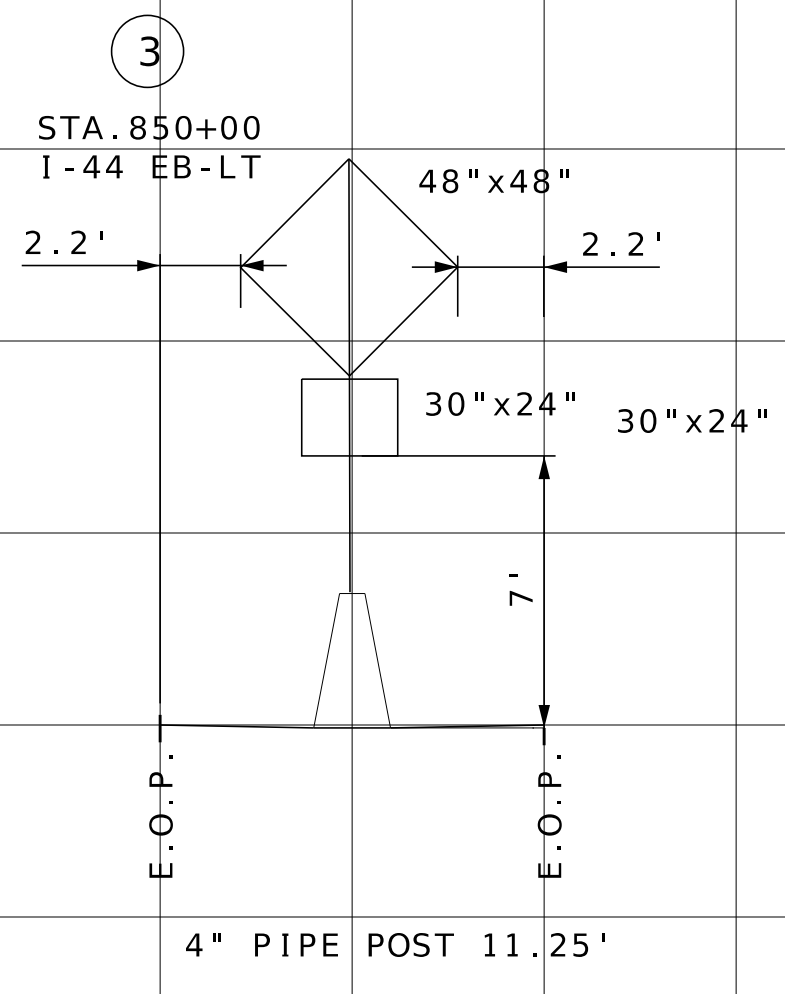
PROJECT NO.
 BRIDGE NO.

DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

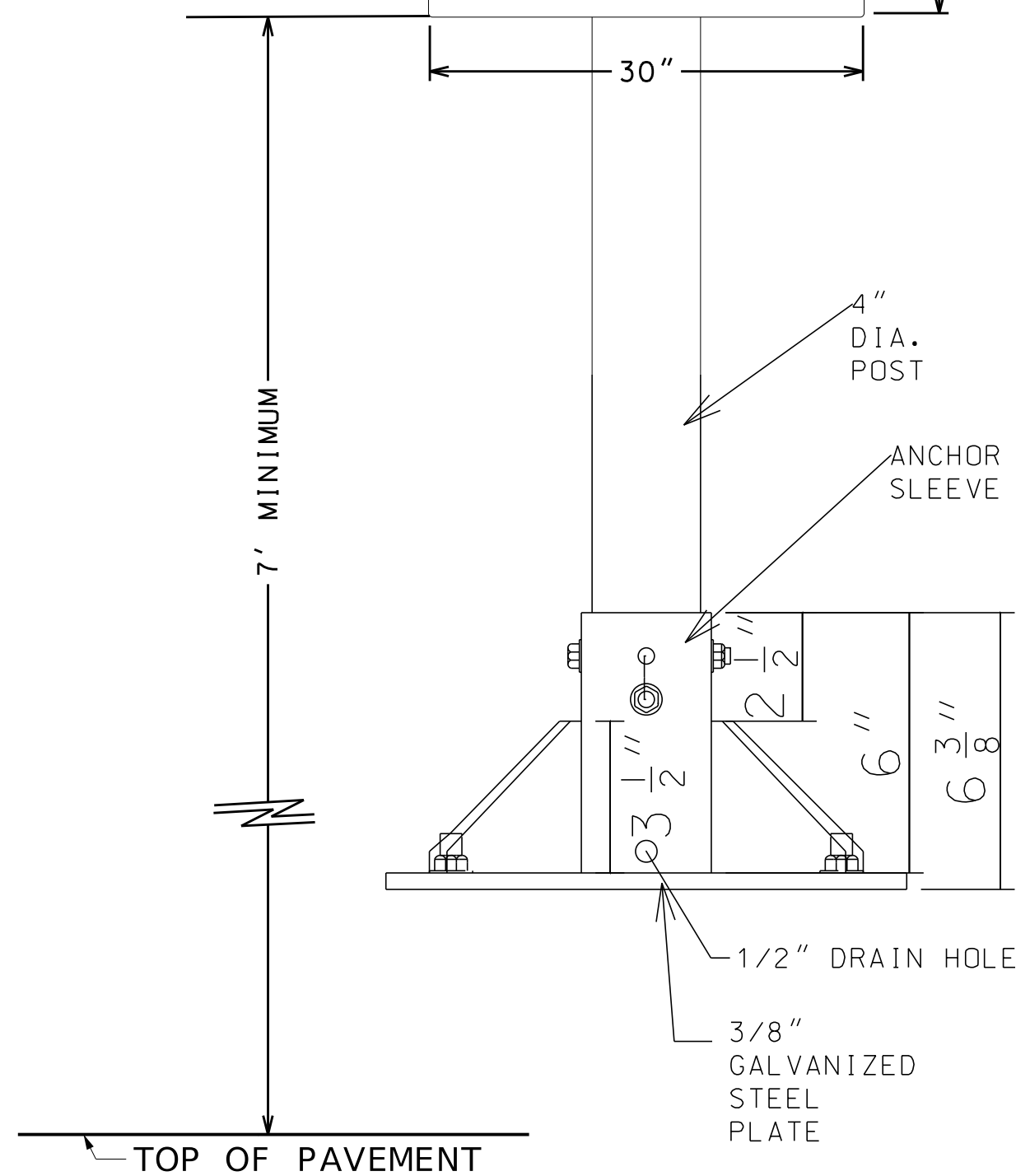
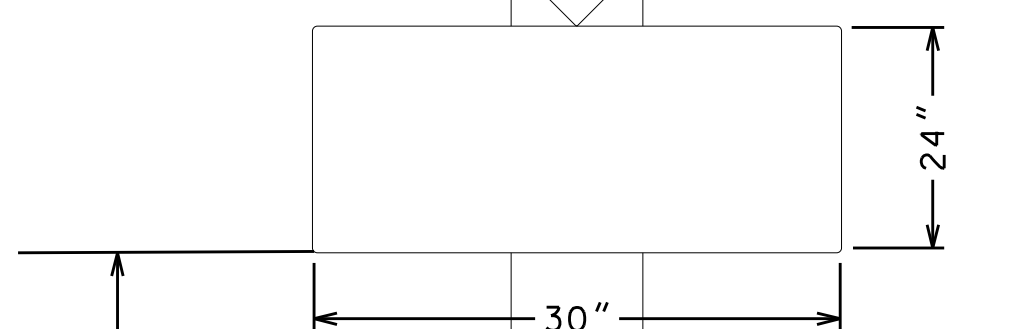
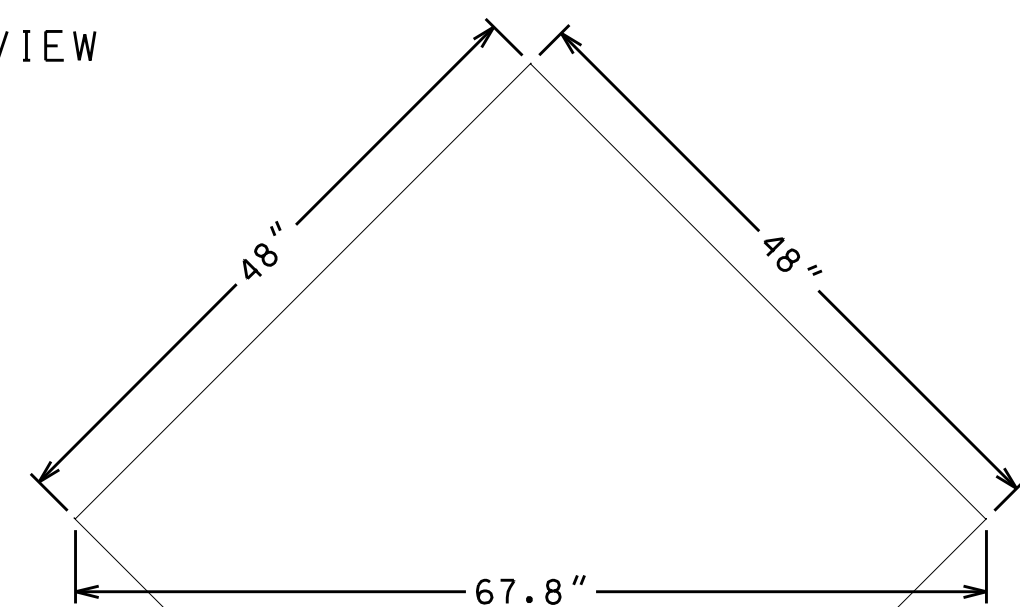
 105 WEST CAPITOL
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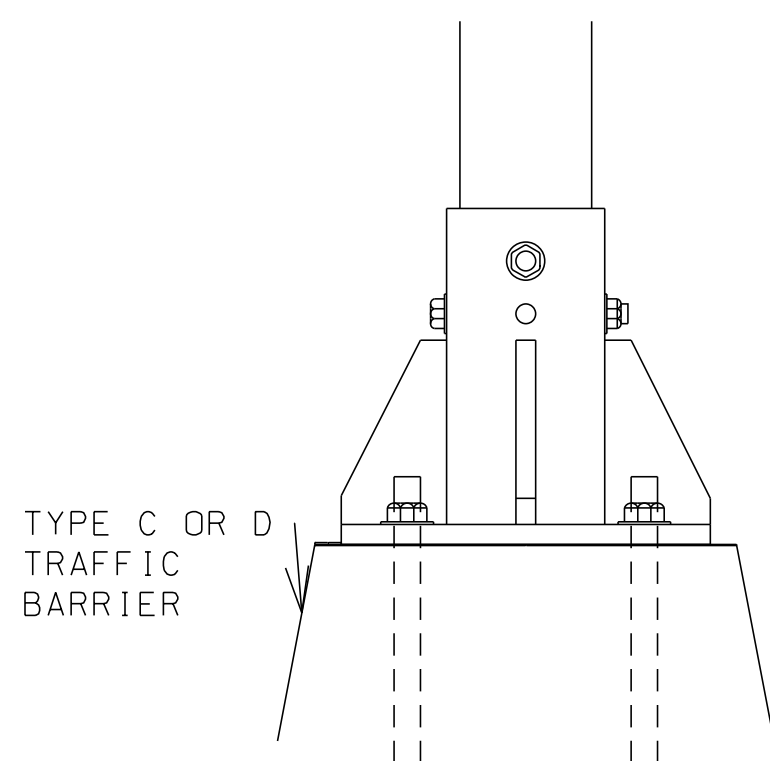


PAVEMENT MARKING
 SIGNING
 SHEET 9 OF 10

FRONT VIEW

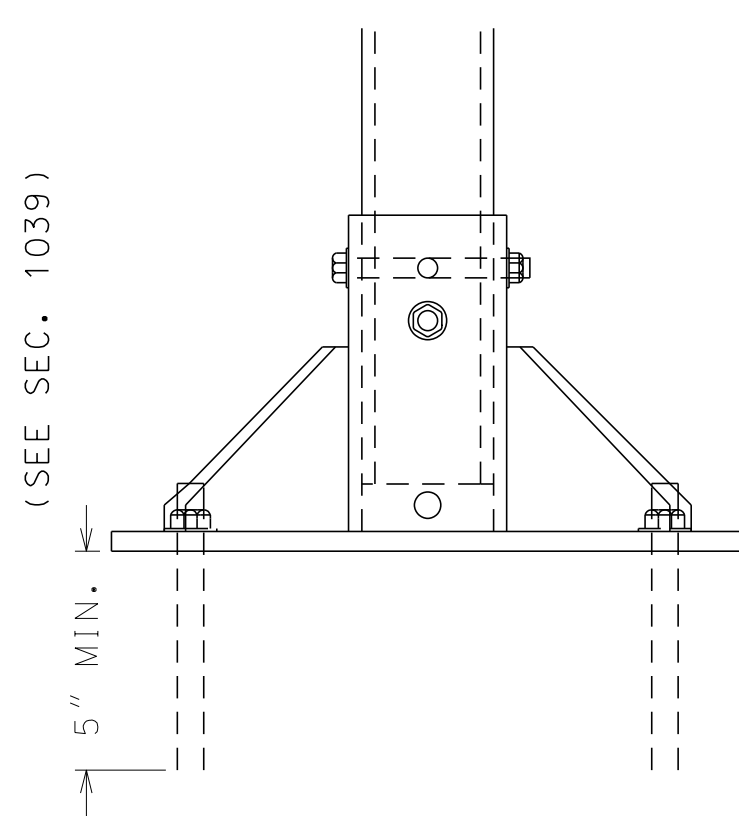
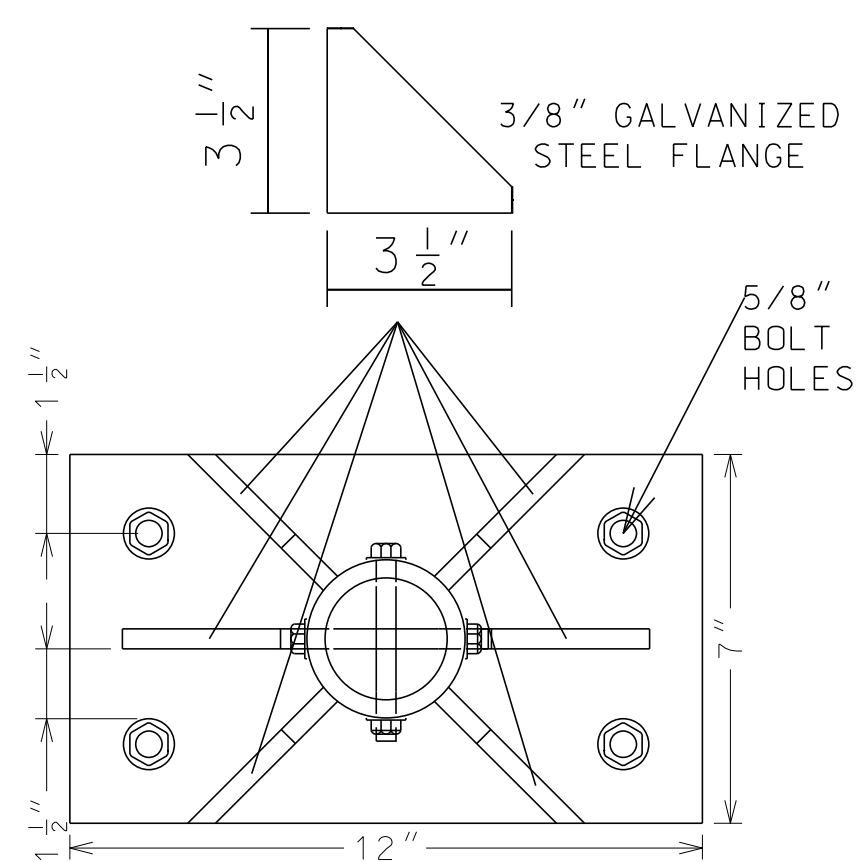


SIDE VIEWS



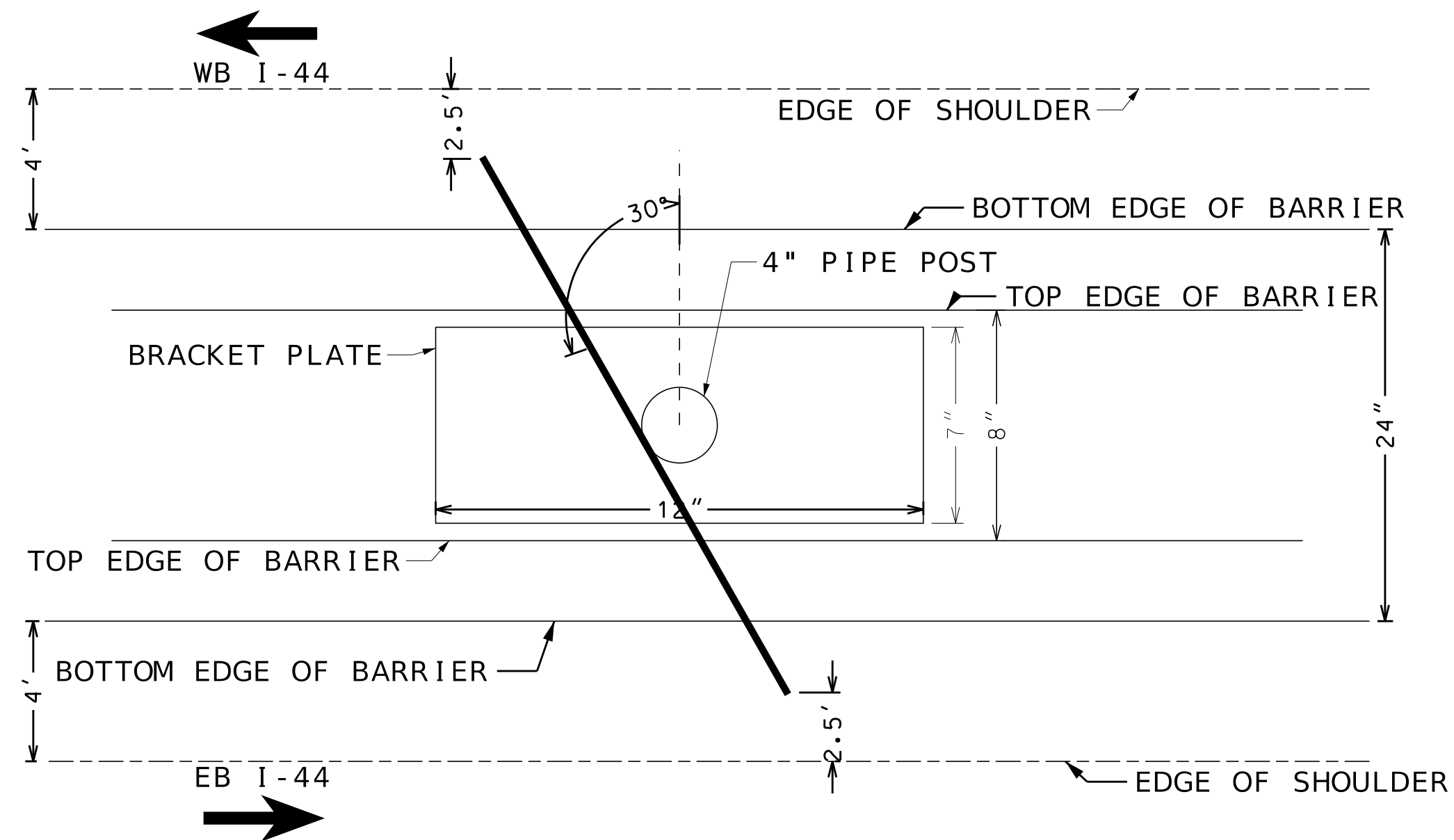
NOTE: ALL ITEMS NECESSARY TO ATTACH THE POST TO THE BARRIER (INCLUDING SIGN MOUNTING BRACKET, ANCHOR BOLTS, PLATES, ETC.) ARE INCLUDED IN THE COST OF THE PIPE POST

TOP VIEW

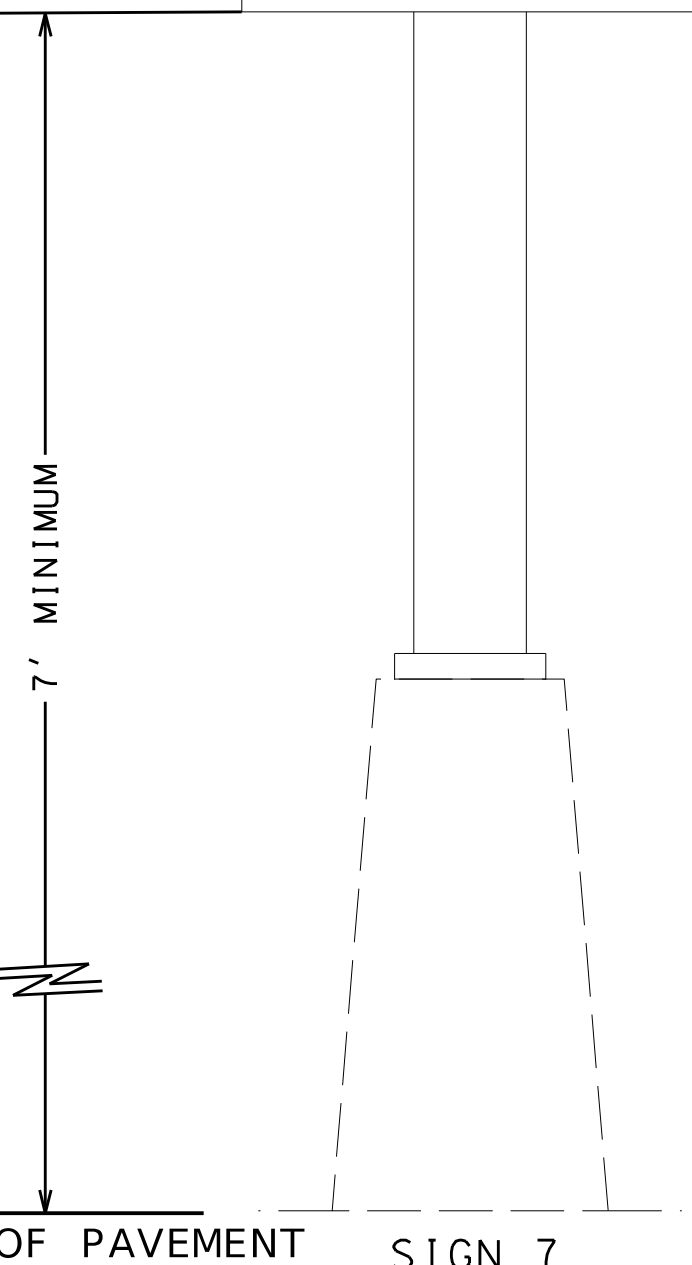
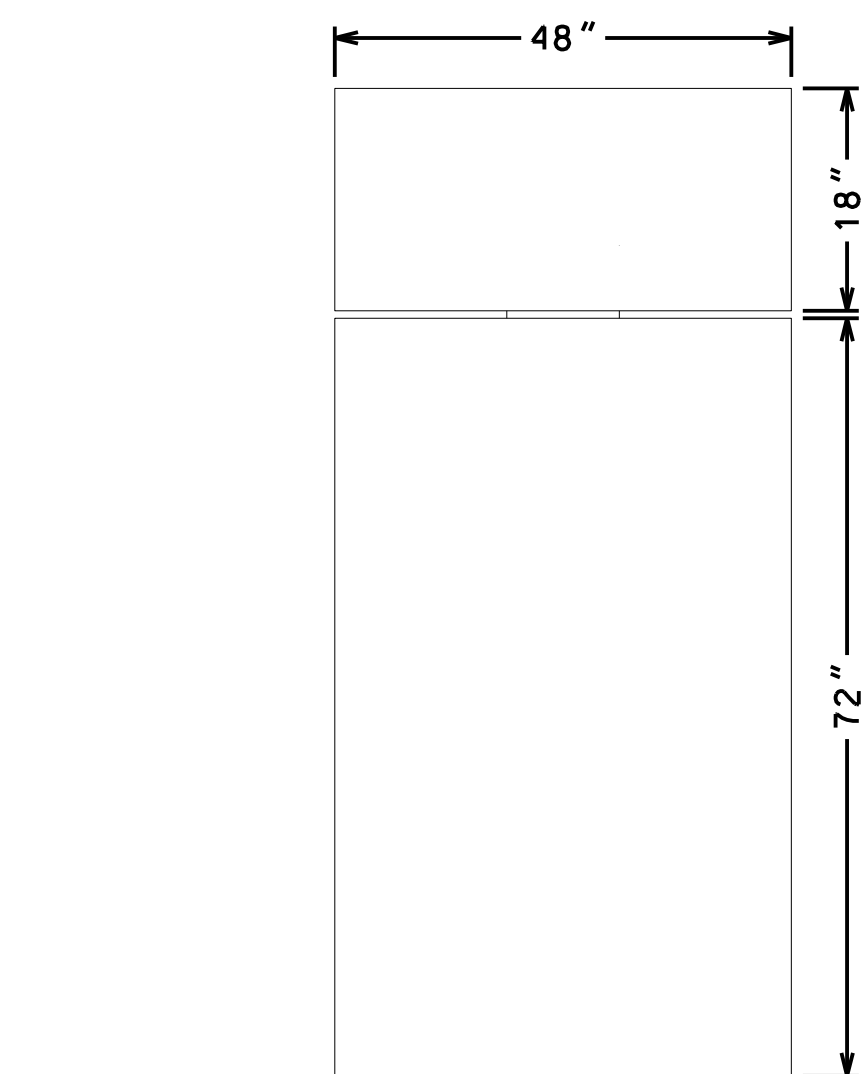


1/2" DIA. ANCHORS SHALL BE EMBEDDED A MIN. OF 5" AND EQUAL OR EXCEED THE PULL TEST REQUIREMENTS OF STANDARD SPECIFICATION SECTION 1039

PIPE POST SIGN MOUNTING BRACKET FOR BARRIER WALL



PLAN VIEW FOR SIGNS 3 AND 11



PAVEMENT MARKING SIGNING SHEET 10 OF 10



PAUL JOSEPH KRONLAGE
 NUMBER EN 023328
 PROFESSIONAL ENGINEER

DATE PREPARED 8/9/2024
 ROUTE I-44
 STATE MO
 DISTRICT CD
 SHEET NO. 26

COUNTY PULASKI
 JOB NO. JCD0111
 CONTRACT ID.

PROJECT NO.
 BRIDGE NO.

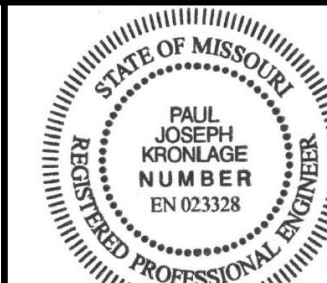
DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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

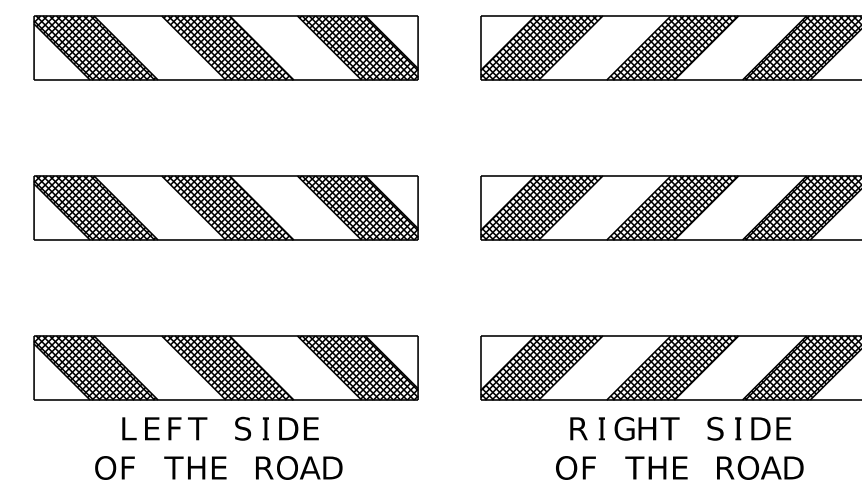
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Paul J. Kronlage
 08/10/2024 10:51:29 AM
 Paul J. Kronlage - Civil
 MO PE - 023328

ADVANCE WARNING RAIL SYSTEM



**ROAD WORK
 NEXT XX MILES**

GO20-1
 ①

**WORK ZONE
 NO PHONE
 ZONE**

CONST-8 (3)
 ⑥2

**Roadway
 Improvements**
 MoDOT Fall 2025

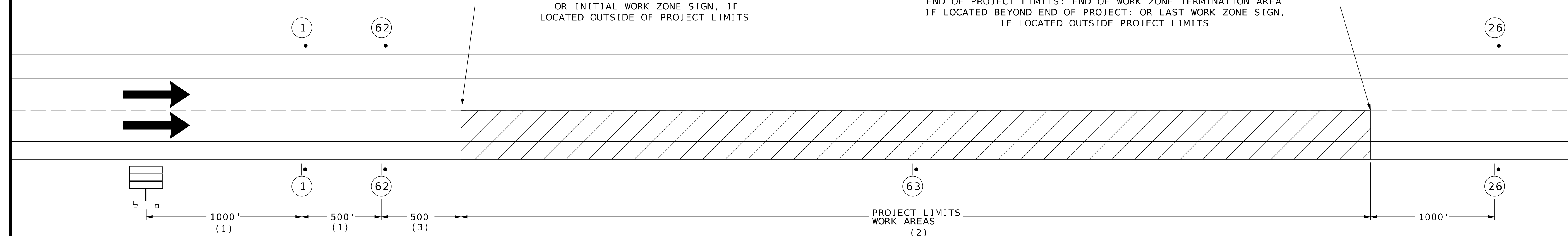
CONST-5-96 (2)
 ⑥3
 WITH "COMPLETED AS PROMISED" STICKER

**END
 ROAD WORK**

GO20-2
 ②6

BEGINNING OF PROJECT LIMITS:
 OR INITIAL WORK ZONE SIGN, IF
 LOCATED OUTSIDE OF PROJECT LIMITS.

END OF PROJECT LIMITS: END OF WORK ZONE TERMINATION AREA
 IF LOCATED BEYOND END OF PROJECT: OR LAST WORK ZONE SIGN,
 IF LOCATED OUTSIDE PROJECT LIMITS



NOTES:

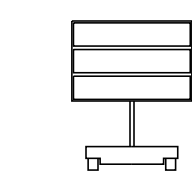
THE CONTRACTOR SHALL COVER OR REMOVE ANY EXISTING SIGNING OR PAVEMENT MARKING THAT CONFLICTS WITH THE TEMPORARY TRAFFIC CONTROL SIGNING AND DEVICES.

(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-5-96 IS PLACED IN A VISIBLE AREA WITHIN THE PROJECT LIMITS PROVIDED ITS PLACEMENT DOES NOT DISRUPT A SEQUENCE OF SIGNS.

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

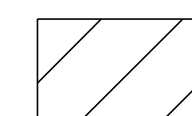
LEGEND



CHANGEABLE
 MESSAGE SIGN



SIGN



WORK AREA

BEGIN-END OF PROJECT SIGNING
 NOT TO SCALE

TRAFFIC CONTROL
 SHEET 1 OF 20

DESCRIPTION

DATE

MISSOURI HIGHWAYS AND TRANSPORTATION
 COMMISSION

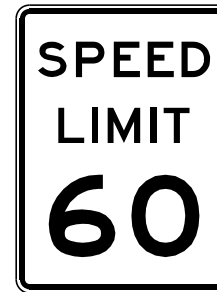
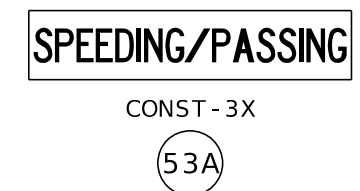
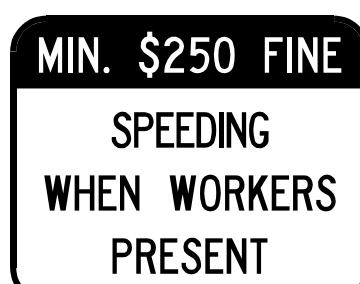
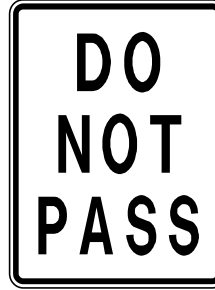
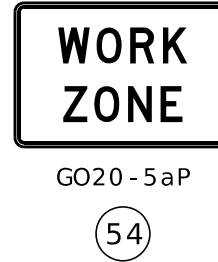


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Phone 314-394-3100
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REV.

NOT TO SCALE



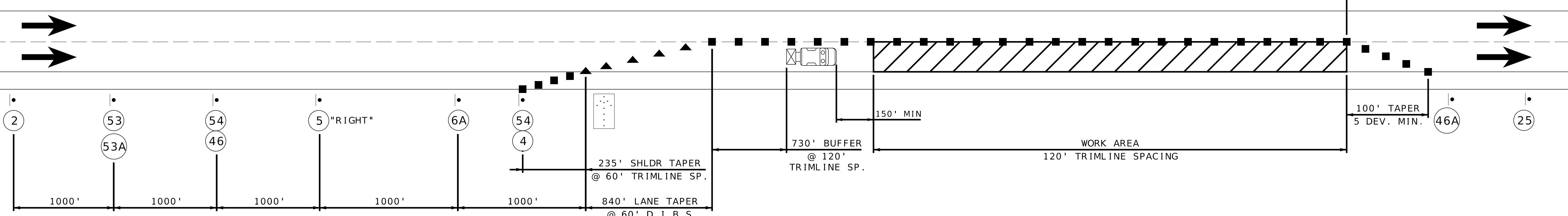
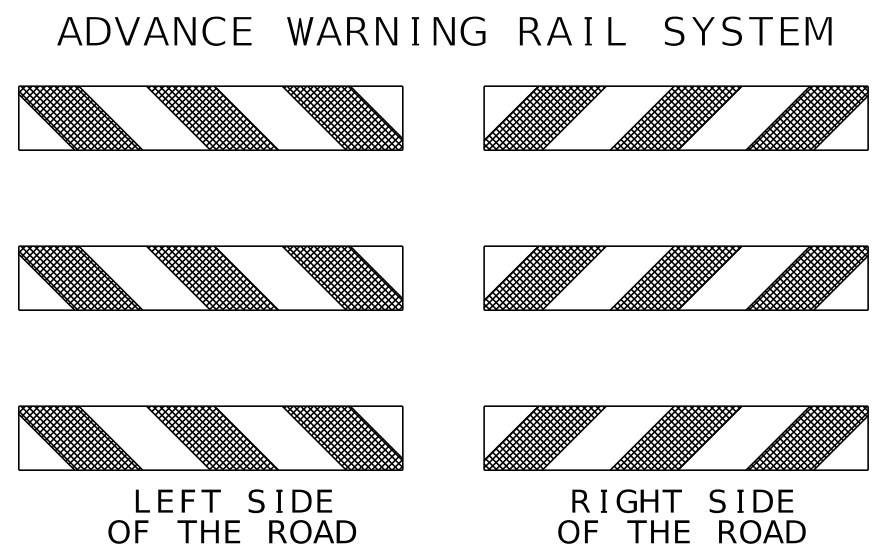
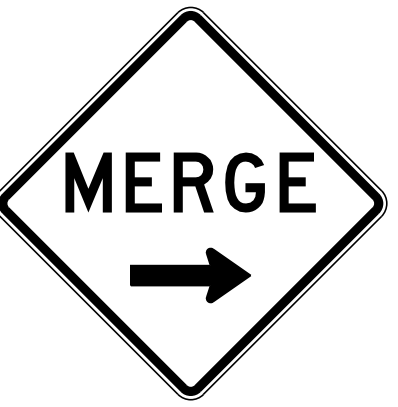
BRIDGE OR RAMP



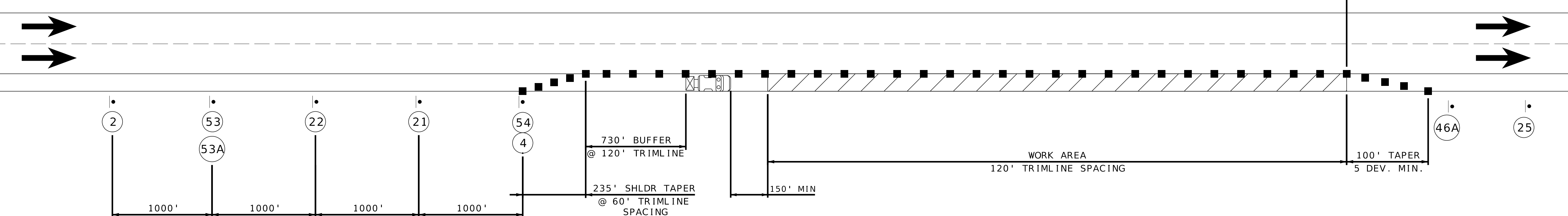
CENTER OR LEFT



CENTER LANE OR LEFT LANE

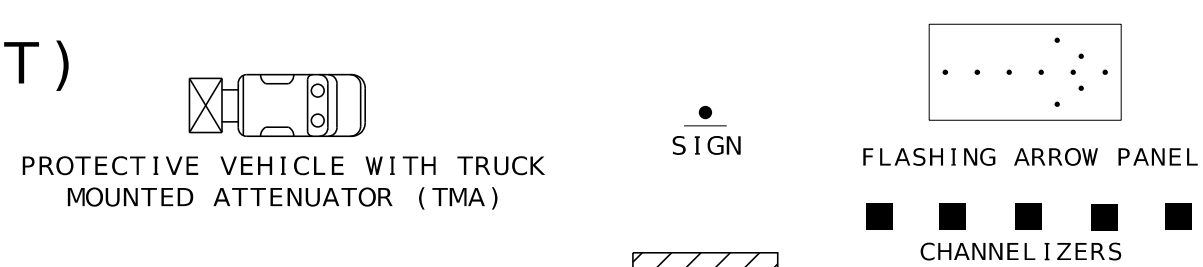


SINGLE LANE CLOSURE (LEFT OR RIGHT)



SHOULDER WORK (LEFT OR RIGHT)

LEGEND



TRAFFIC CONTROL SHEET 2 OF 20

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08/10/2024 10:51:58 AM
Paul J. Kronlage - Civil
MO PE - 023328

DATE PREPARED
8/9/2024

ROUTE STATE
I - 44 MO
DISTRICT SHEET NO.
CD 28

COUNTY
PULASKI
JOB NO.
JCD0111
CONTRACT ID.

PROJECT NO.
BRIDGE NO.

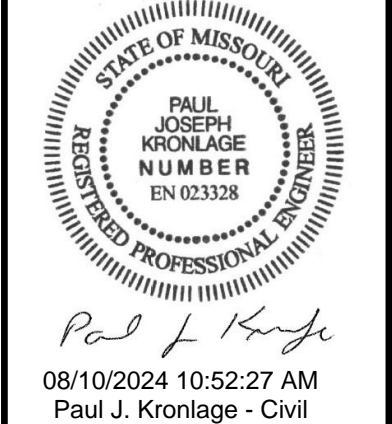
DATE	DESCRIPTION

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

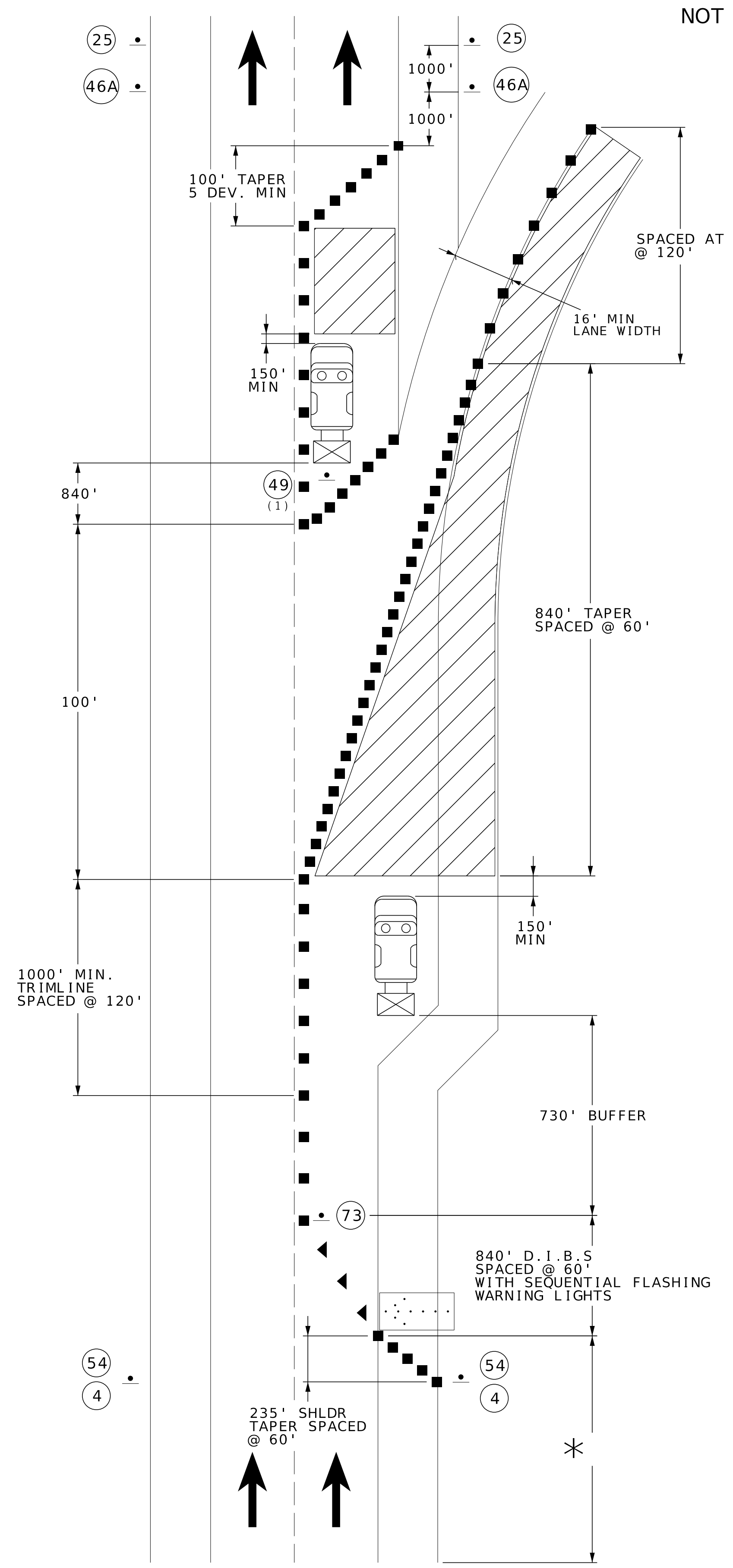
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Phone 314-394-3100
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WORK IN THE VICINITY OF AN EXIT RAMP
NOT TO SCALE

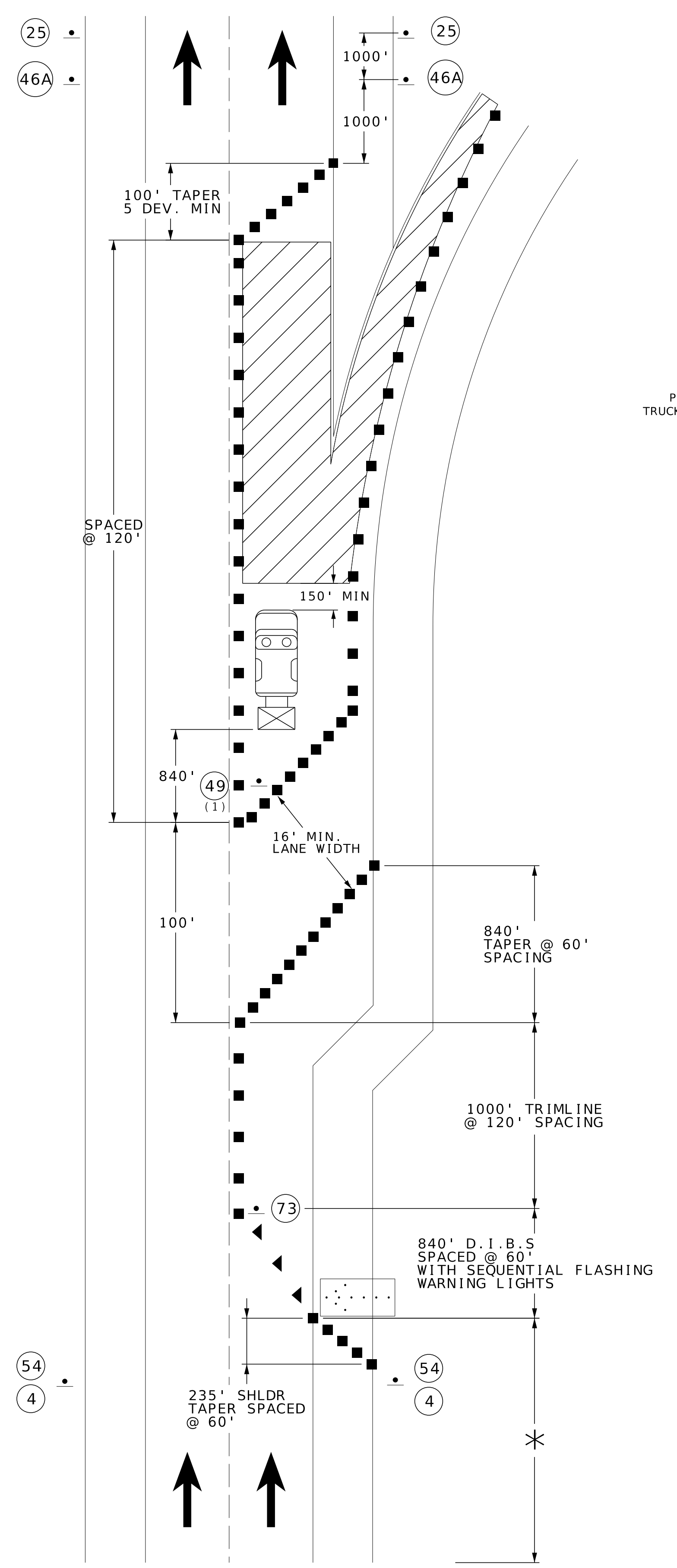
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DATE PREPARED: 8/9/2024
 ROUTE: I-44 STATE: MO
 DISTRICT: CD SHEET NO.: 29
 COUNTY: PULASKI
 JOB NO.: JCD0111
 CONTRACT ID.:
 PROJECT NO.:
 BRIDGE NO.:



*FOR DETAILS ON THE ADVANCE SIGNING AREA, SEE "SINGLE LANE CLOSURE" TYPICAL APPLICATIONS



*FOR DETAILS ON THE ADVANCE SIGNING AREA, SEE "SINGLE LANE CLOSURE" TYPICAL APPLICATIONS

LEGEND

- FLASHING ARROW PANEL
- CHANNELIZERS
- DIRECTIONAL INDICATOR BARRICADE
- PROTECTIVE VEHICLE WITH TRUCK MOUNTED ATTENUATOR (TMA)
- SIGN
- WORK AREA

- NOTES:**
- (1) PLACE TEMPORARY SIGN AT A MOUNTING HEIGHT OF 7' WITHIN THE TEMPORARY GORE
 - (3) 5 CHANNELIZER DEVICES MINIMUM

E05-2 (73)	R2-1 (25)	R2-1 (4)
E05-1 (49) (1)	GO20-5aP (54)	R4-2 (46A)

TRAFFIC CONTROL
SHEET 3 OF 20

DESCRIPTION

DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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DYNAMIC ZIPPER MERGE SYSTEM
NOT TO SCALE

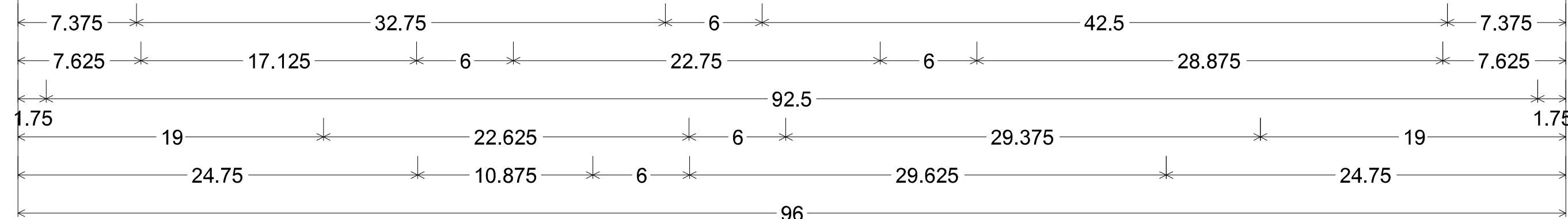
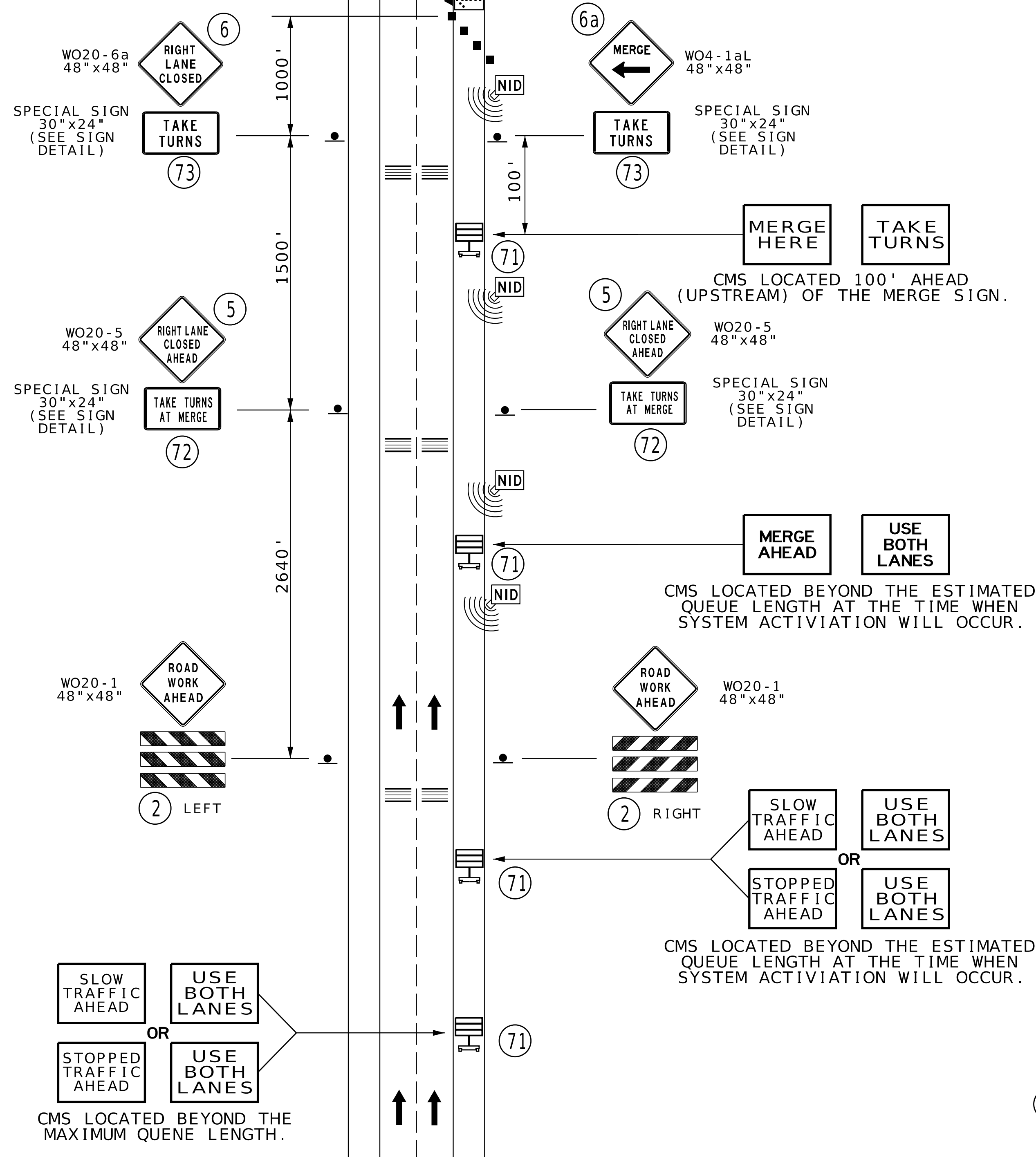
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08/10/2024 1:07:33 PM
Paul J. Kronlage - Civil
MO PE - 023328

DATE PREPARED
8/10/2024
ROUTE I-44 STATE MO
DISTRICT CD SHEET NO. 30
COUNTY PULASKI
JOB NO. JCD0111
CONTRACT ID.
PROJECT NO.
BRIDGE NO.

**DURING BACKUPS
USE BOTH LANES
TAKE TURNS
AT MERGE**



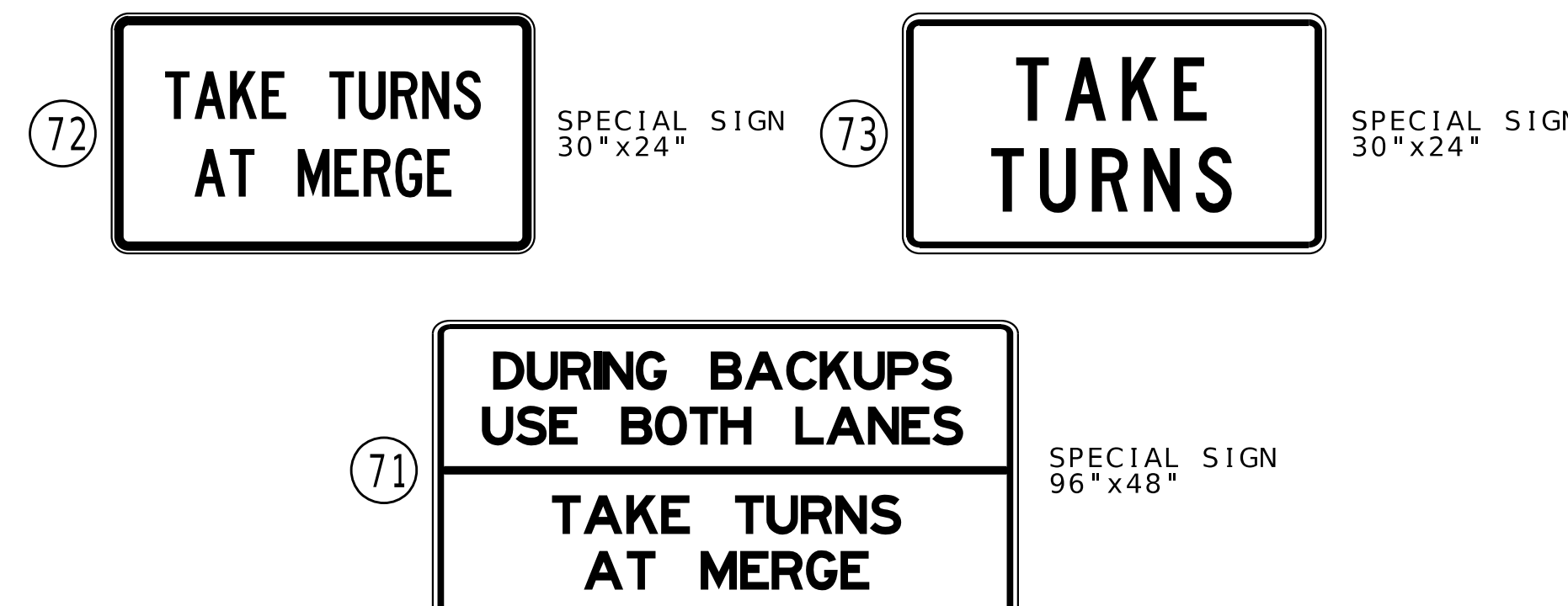
SPECIAL SHF-FLAT SHEET FLUORESCENT; 3.000" Radius, 1.000" Border, 0.750" Indent, Black on Orange; [DURING BACKUPS] E Mod; [USE BOTH LANES] E Mod; [TAKE TURNS] E Mod; [AT MERGE] E Mod; Table of letter and object lefts.

D	U	R	I	N	G	B	A	C	K	U	P	S
7.375	13.625	20.000	26.250	29.000	35.375	46.125	52.125	59.375	65.375	71.500	77.875	83.875
U	S	E	B	O	T	H	L	A	N	E	S	
7.625	14.000	20.250	30.750	36.750	43.000	48.750	59.500	64.375	71.625	77.875	83.625	
1.750												
T	A	K	E	T	U	R	N	S				
19.000	23.875	31.000	37.125	47.625	53.250	59.625	66.000	72.250				
A	T	M	E	R	G	E						
24.750	31.250	41.625	48.750	54.375	60.500	66.750						

SIGN NO 71

TRAFFIC CONTROL LEGEND

- SIGN (SINGLE SIDED)
- ▨ ADVANCED WARNING RAIL SYSTEM
- CHANNELIZER (TRIM LINE)
- ▲ DIRECTIONAL INDICATOR BARRICADE
- ☐ CHANGEABLE MESSAGE SIGN
- ☐ FLASHING ARROW PANEL
- ☐ NON-INTRUSIVE DETECTOR
- ☐ TEMPORARY LONG TERM RUMBLE STRIPS - 5 STRIPS SPACED AT 10'-12' CENTERS OR MANUFACTURER'S RECOMMENDATION (WHICHEVER IS GREATER) (PER SET)



NOTES:
THE CHANGEABLE MESSAGE SIGNS AND NON-INTRUSIVE DETECTORS SHALL BE SPACED ALONG THE ROUTE AS NEEDED FOR PROPER SYSTEMS OPERATIONS.
STATIC SIGNS MAY BE USED AS A SUPPLEMENT FOR CMS BOARDS. THE STATIC SIGN PROVIDES A CONTINUOUS REINFORCING MESSAGE TO THE TRAVELING PUBLIC.
STATIC SIGNS MAY BE LOCATED BEYOND AND WITHIN THE ANTICIPATED QUEUE LENGTH.

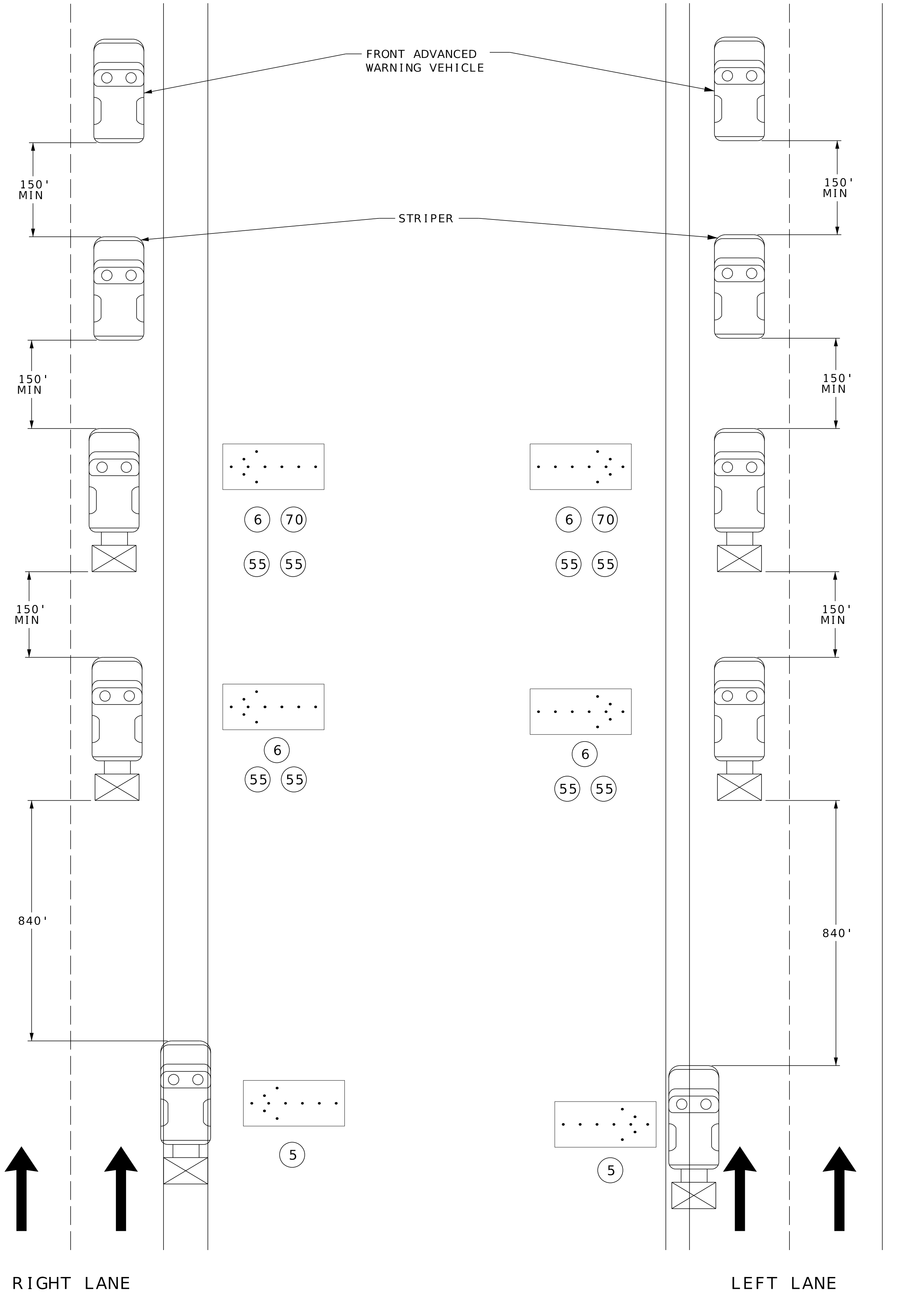
TRAFFIC CONTROL
SHEET 4 OF 20

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

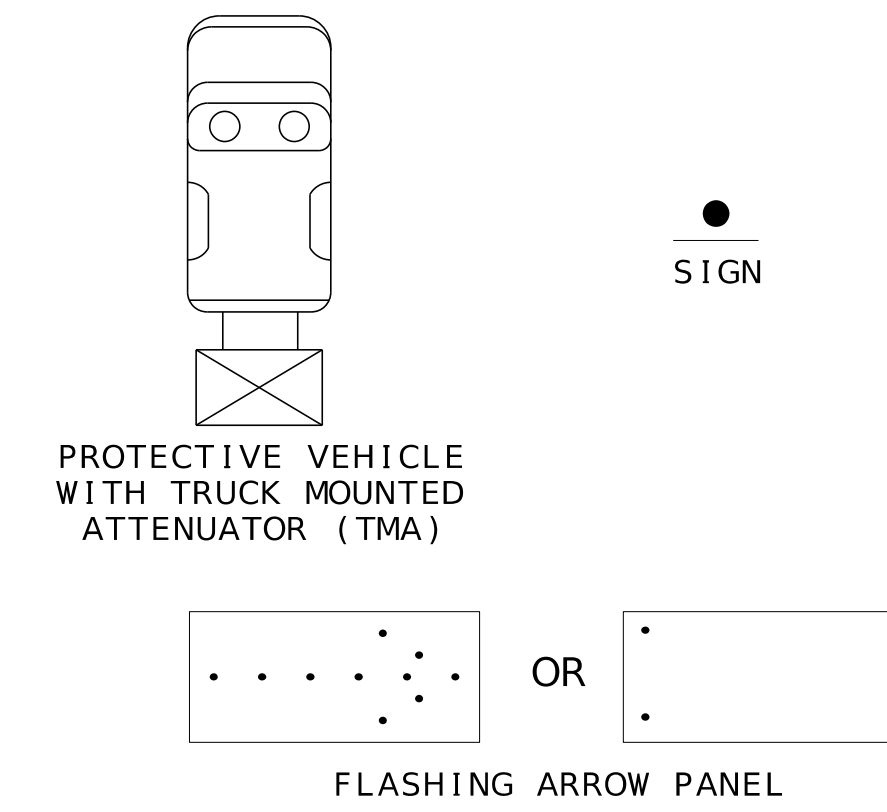
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NOT TO SCALE



LEGEND



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Paul J. Kronlage
 Paul J. Kronlage - Civil
 MO PE - 023328

DATE PREPARED
 8/9/2024

ROUTE STATE
 I - 44 MO
 DISTRICT SHEET NO.
 CD 31

COUNTY
 PULASKI

JOB NO.
 JCD0111

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

NOTES:

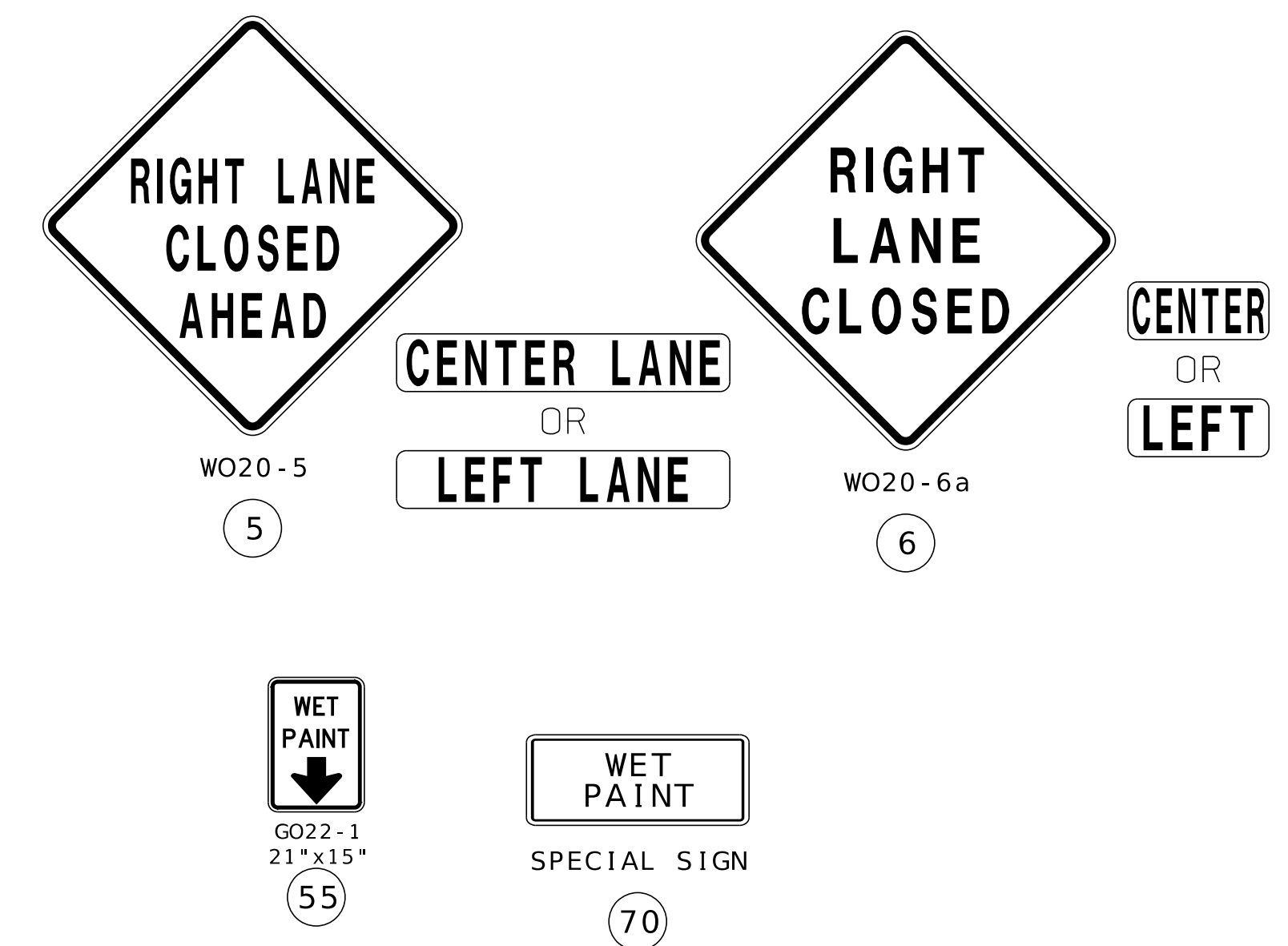
UPON APPROVAL OF THE ENGINEER, THE CONTRACTOR MAY PROVIDE ADDITIONAL PROTECTIVE TRUCKS EQUIPPED WITH PROPER WARNING DEVICES.

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

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

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 OBTSCURED BY EQUIPMENT OR SUPPLIES. SIGN LEGENDS 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 CLOSED LANE.



DESCRIPTION

DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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TRAFFIC CONTROL
 SHEET 5 OF 20

MOBILE OPERATIONS FOR PAVEMENT MARKING FOR A 2 LANE DIVIDED HIGHWAY

ROLLING ROAD BLOCK - VEHICLE STAGING

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Paul J. Kronlage
 08/10/2024 11:02:35 AM
 Paul J. Kronlage - Civil
 MO PE - 023328

DATE PREPARED
 8/9/2024

ROUTE STATE
 I - 44 MO

DISTRICT SHEET NO.
 CD 32

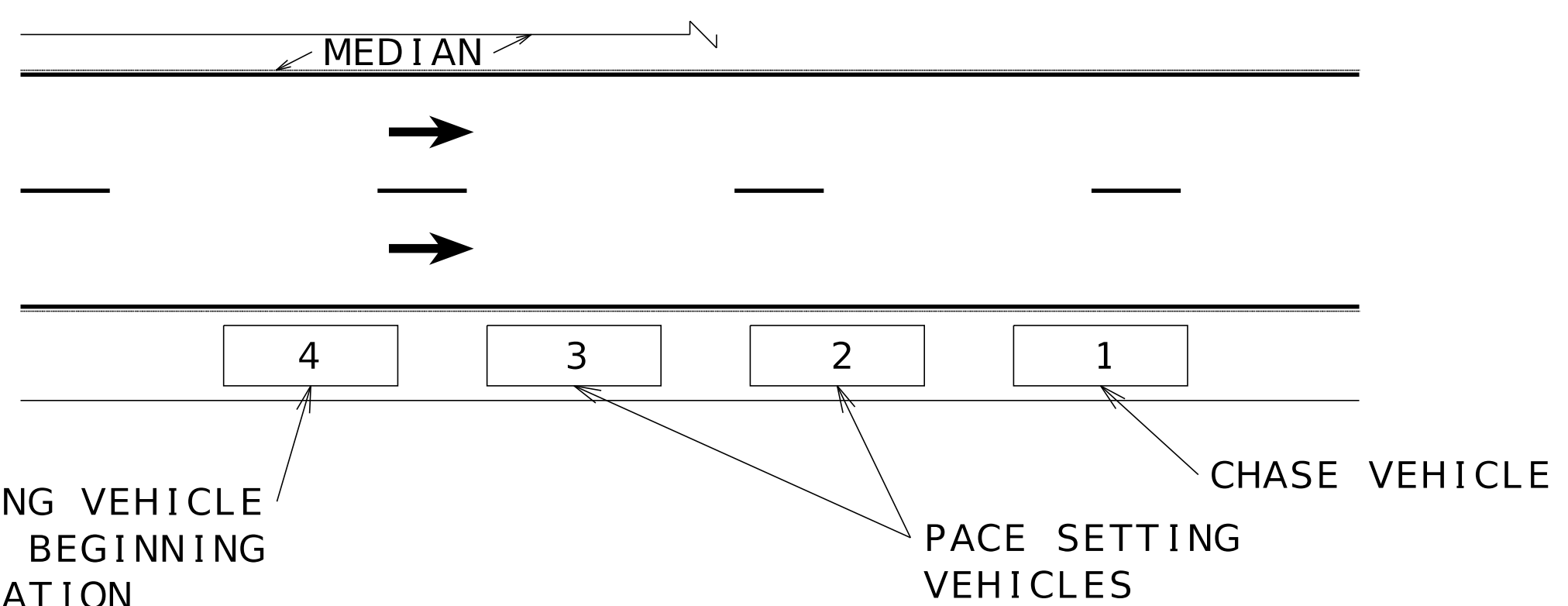
COUNTY
 PULASKI

JOB NO.
 JCD0111

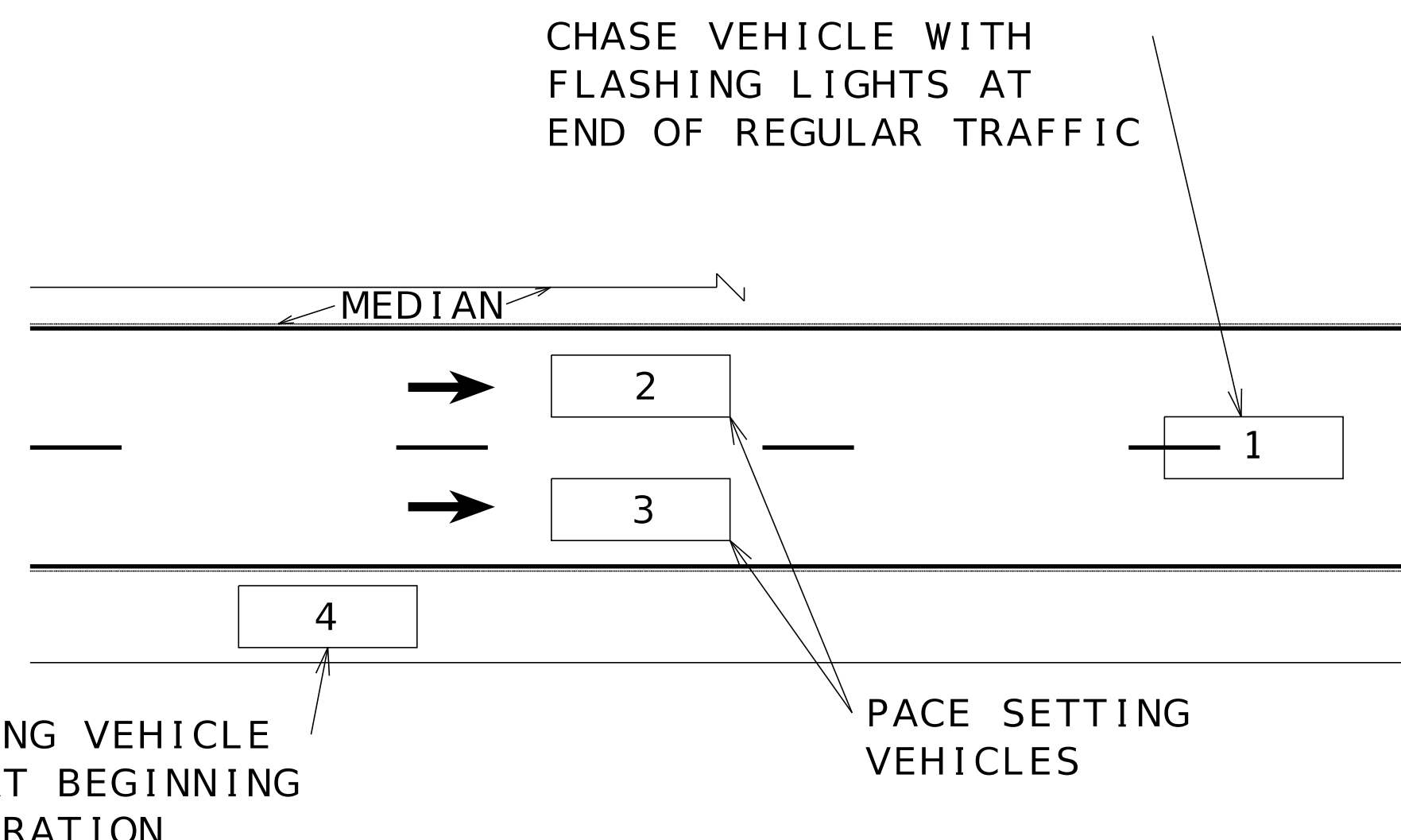
CONTRACT ID.

PROJECT NO.

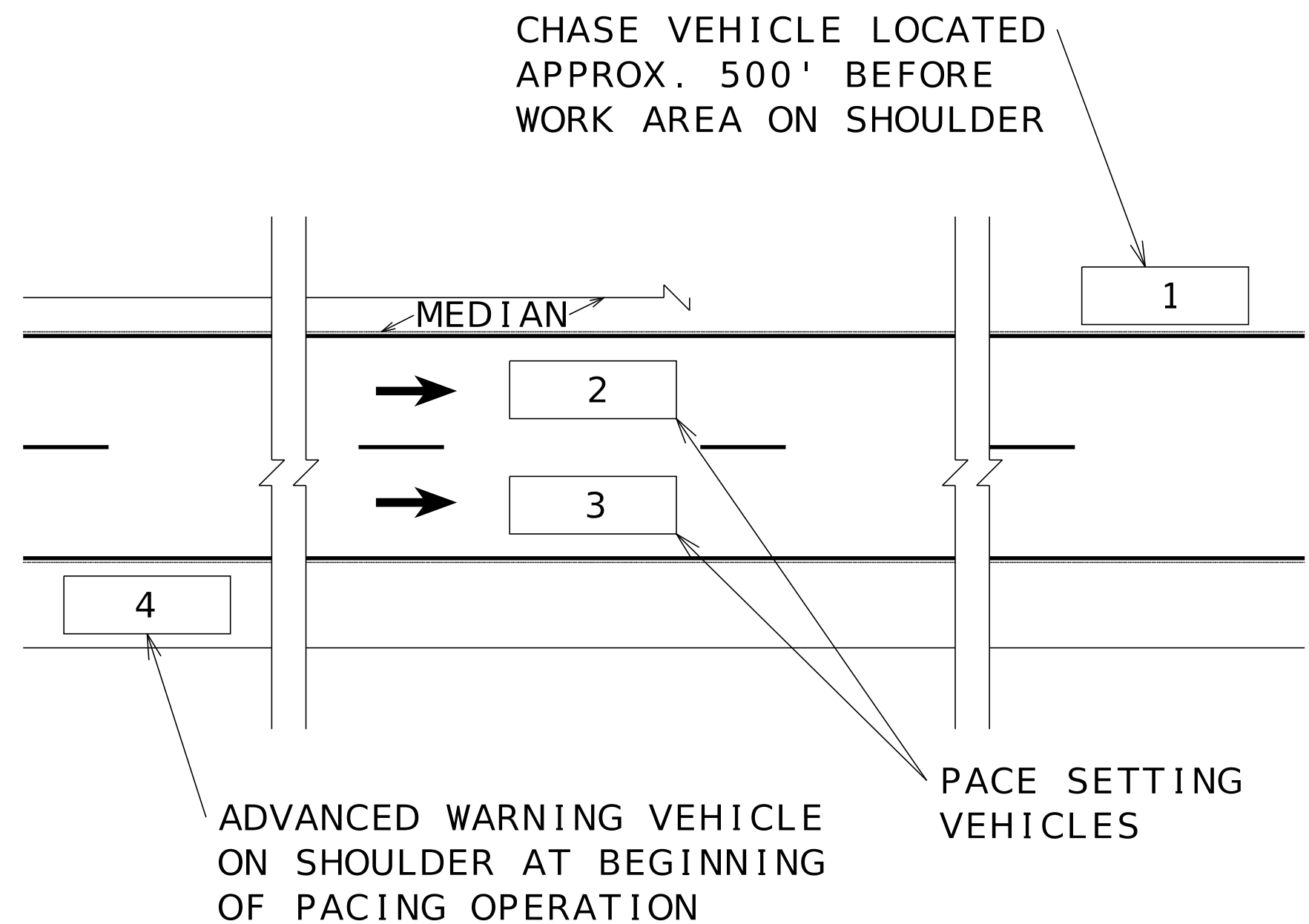
BRIDGE NO.



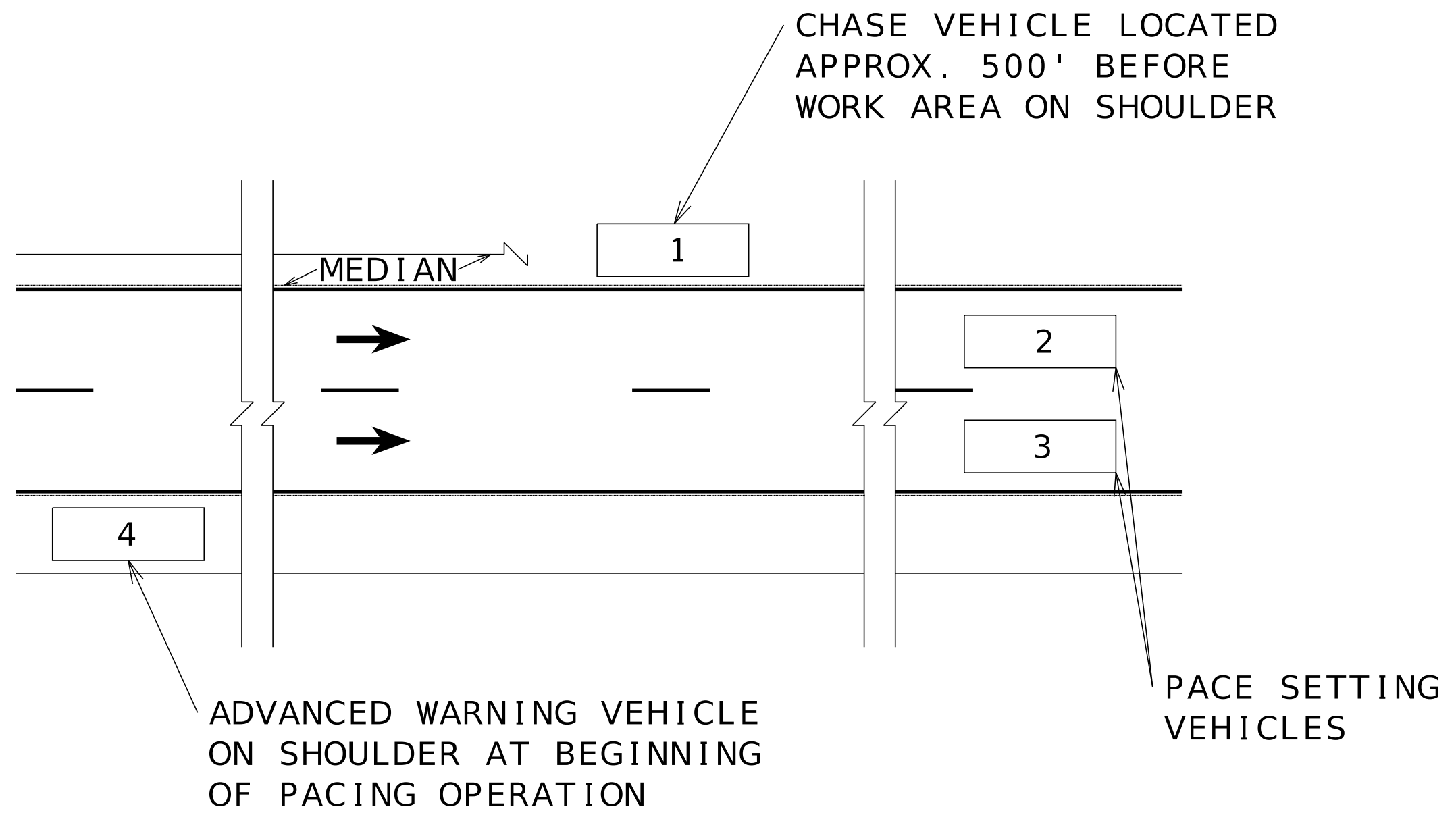
STAGE ONE



STAGE TWO



STAGE THREE



STAGE FOUR

NOTES:

PACING VEHICLES SHALL BE LAW ENFORCEMENT VEHICLES WITH BLUE LIGHTS FLASHING, DRIVEN BY UNIFORMED LAW ENFORCEMENT PERSONNEL

TWO-WAY RADIOS SHALL BE USED TO PROVIDE CONSTANT COMMUNICATION BETWEEN PILOT VEHICLES, CONTRACTOR'S WORKERS, AND PROJECT ENGINEER

TRAFFIC CONTROL
 SHEET 6 OF 20

DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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

EFK Moen
 Civil Engineering Design
 13523 Barrett Parkway Dr
 Suite 250
 St. Louis, MO 63021
 Phone 314-394-3100
 Fax 314-394-3199
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Paul J. Kronlage
 08/10/2024 11:02:53 AM
 Paul J. Kronlage - Civil
 MO PE - 023328

DATE PREPARED
 8/9/2024

ROUTE	STATE
I - 44	MO
DISTRICT	SHEET NO.
CD	33

COUNTY
 PULASKI

JOB NO.
 JCD0111

CONTRACT ID.

PROJECT NO.

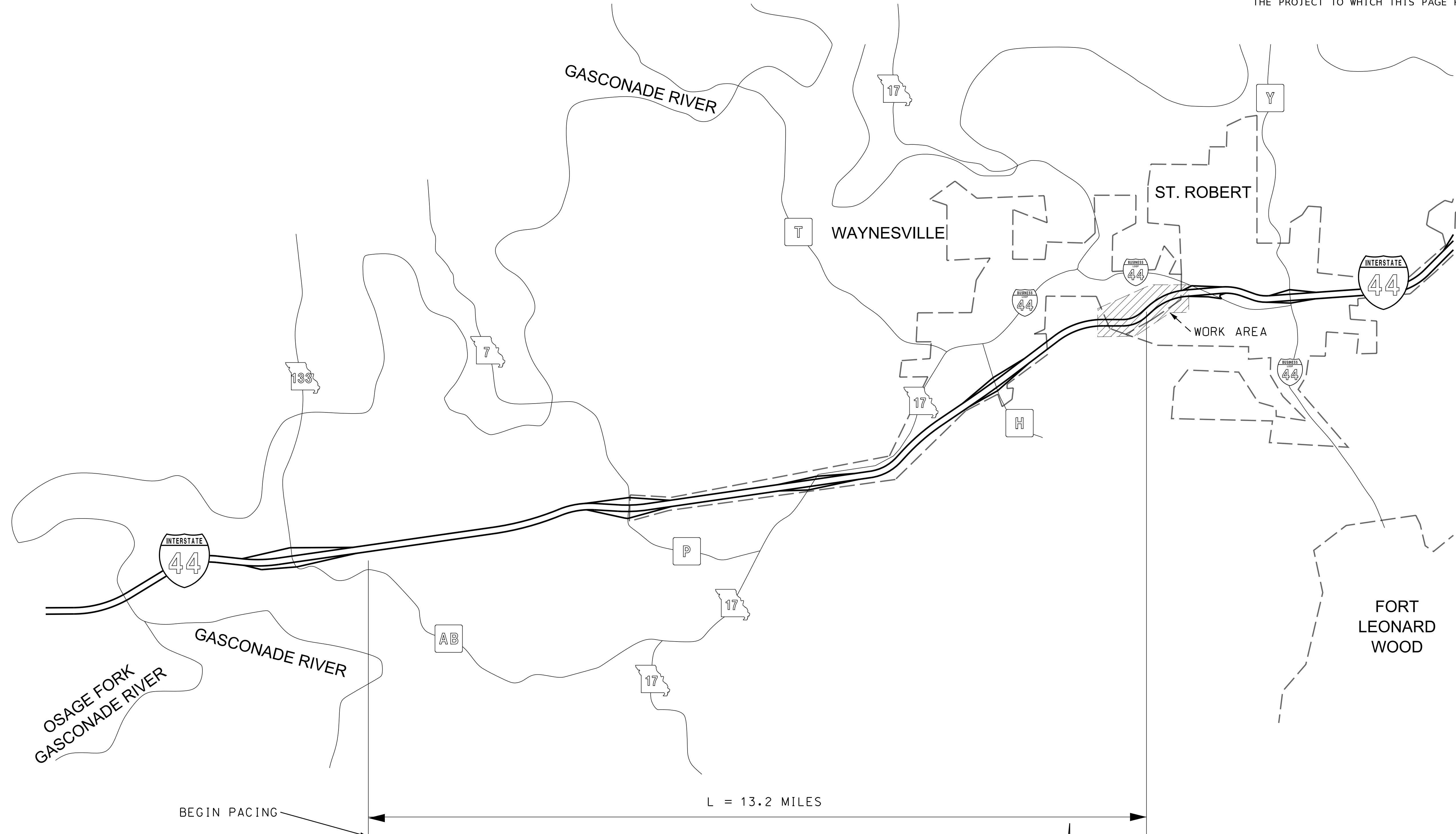
BRIDGE NO.

DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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

EFK Moen
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NOTES:
 ANY ON-RAMPS OR OTHER ACCESS POINTS BETWEEN THE BEGINNING POINT OF THE PACING AREA AND THE WORK AREA SHALL BE BLOCKED UNTIL THE PILOT VEHICLES HAVE PASSED.
 ACCESS POINT LOCATION ARE TO BE IDENTIFIED BY THE ENGINEER.

ROLLING ROAD BLOCK 15 MINUTE PLAN



L = 13.2 MILES



NOT TO SCALE

TRAFFIC CONTROL
 SHEET 7 OF 20

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Paul J. Kronlage
 08/10/2024 11:03:12 AM
 Paul J. Kronlage - Civil
 MO PE - 023328

DATE PREPARED 8/9/2024	
ROUTE I - 44	STATE MO
DISTRICT CD	SHEET NO. 34
COUNTY PULASKI	
JOB NO. JCD0111	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

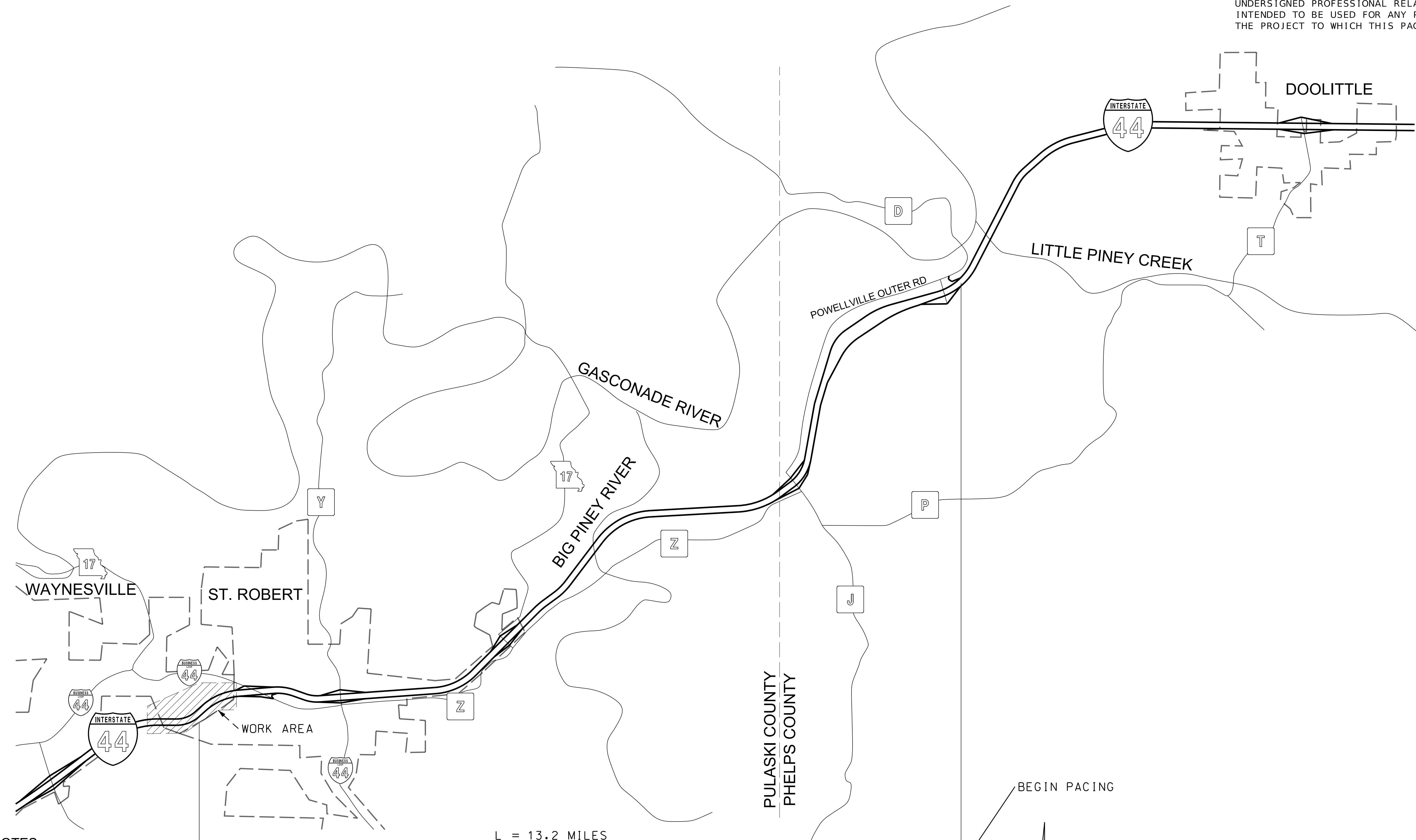
DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION



105 WEST CAPITOL
 JEFFERSON CITY, MO 65102
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EFK Moen
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 13523 Barrett Parkway Dr
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 Phone 314-394-3100
 Fax 314-394-3199
 Missouri Certificate of Authority: 001578



NOTES:
 ANY ON-RAMPS OR OTHER ACCESS POINTS BETWEEN THE BEGINNING POINT OF THE PACING AREA AND THE WORK AREA SHALL BE BLOCKED UNTIL THE PILOT VEHICLES HAVE PASSED.

ACCESS POINT LOCATION ARE TO BE IDENTIFIED BY THE ENGINEER.

ROLLING ROAD BLOCK 15 MINUTE PLAN

 WORK AREA

NOT TO SCALE

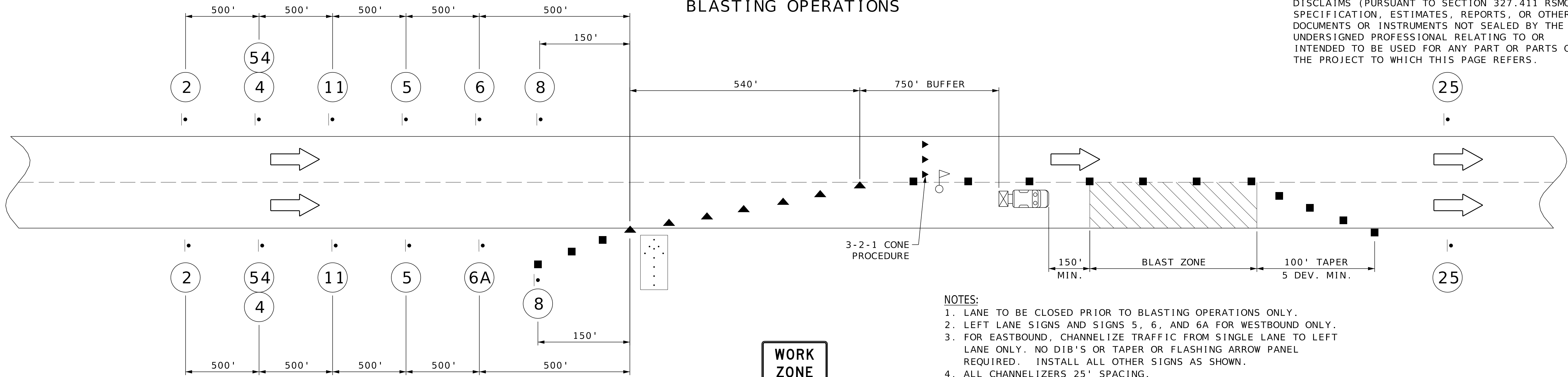
TRAFFIC CONTROL
 SHEET 8 OF 20

BUSINESS 44 AT 159 EXIT
BLASTING OPERATIONS

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08/10/2024 11:03:53 AM
Paul J. Kronlage - Civil
MO PE - 023328



- NOTES:
1. LANE TO BE CLOSED PRIOR TO BLASTING OPERATIONS ONLY.
 2. LEFT LANE SIGNS AND SIGNS 5, 6, AND 6A FOR WESTBOUND ONLY.
 3. FOR EASTBOUND, CHANNELIZE TRAFFIC FROM SINGLE LANE TO LEFT LANE ONLY. NO DIB'S OR TAPER OR FLASHING ARROW PANEL REQUIRED. INSTALL ALL OTHER SIGNS AS SHOWN.
 4. ALL CHANNELIZERS 25' SPACING.
 5. FLAGGER WITH HAND HELD STOP SIGN TO STOP TRAFFIC DURING BLASTING AND CLEAN UP.

WORK ZONE
G020-5aP
36" x 24"

TRAFFIC CONTROL LEGEND

- SIGN (SINGLE SIDED)
- CHANNELIZER (TRIM LINE)
- ▲ DIRECTIONAL INDICATOR BARRICADE
- ▲ CONE
- ◻ FLASHING ARROW PANEL
- ◻ TRUCK MOUNTED ATTENUATOR
- ▨ BLAST ZONE
- △ FLAGGER



WO20-1
48" x 48"

2



R2-1
36" x 48"

4



WO3-4
48" x 48"

11



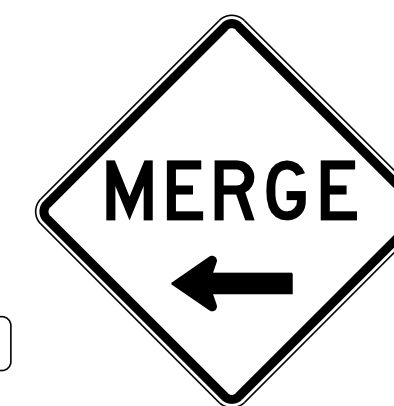
WO20-5
48" x 48"

5



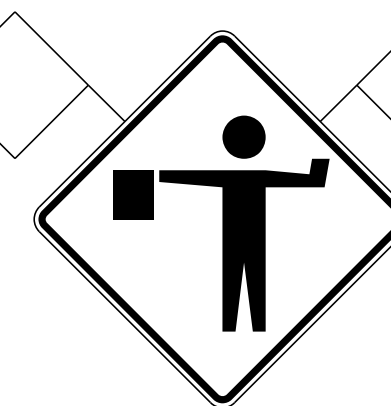
WO20-6a
48" x 48"

6



WO4-1aL
48" x 48"

6A



WO20-7a
48" x 48"

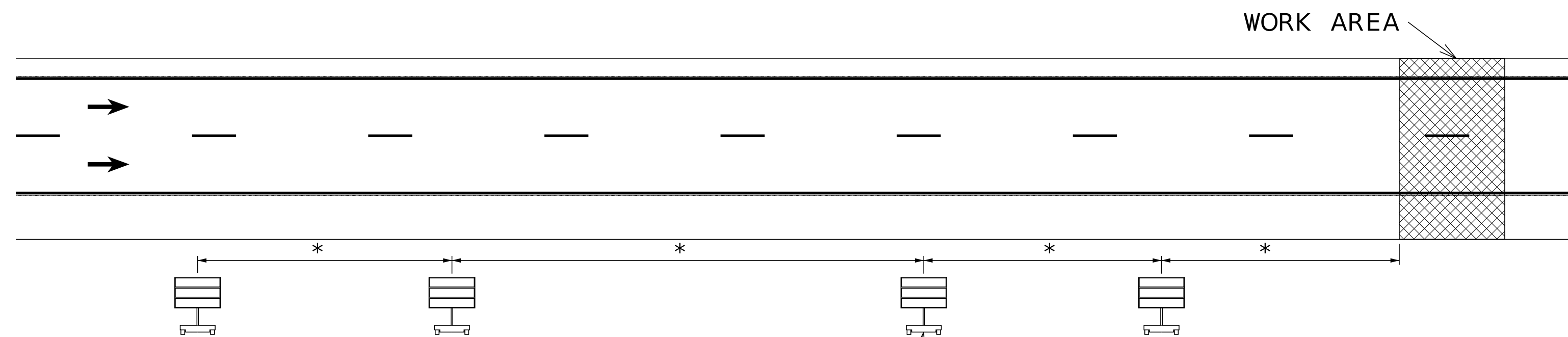
8



R2-1
36" x 48"

25

I-44 WZITS CHANGEABLE MESSAGE SIGNS
(TYPICAL PLACEMENT AND MESSAGES)



CHANGEABLE MESSAGE SIGN
WITH COMMUNICATION INTERFACE,
CONTRACTOR FURNISHED/RETAINED
(TYPICAL)

ONE WEEK PRIOR TO
PACING OPERATION

EXPECT DELAYS ON	MMM DD-DD X AM-X AM
------------------	---------------------

DURING DAY OF
PACING OPERATION

ROAD WORK TONIGHT	EXPECT PERIODIC DELAYS
-------------------	------------------------

DURING PACING
OPERATION &
LANE CLOSURES

SLOW TRAFFIC AHEAD	BE PREPARED TO STOP
--------------------	---------------------

CHANGEABLE MESSAGE SIGN MESSAGE

* - DISTANCE BETWEEN CMS ARE TO BE DETERMINED BY THE CONTRACTOR AS PART OF THEIR WZITS PLAN TO BE APPROVED BY THE ENGINEER.

NOTES:

CMS LOCATIONS MAY BE ADJUSTED FOR FIELD CONDITIONS AS APPROVED BY THE ENGINEER

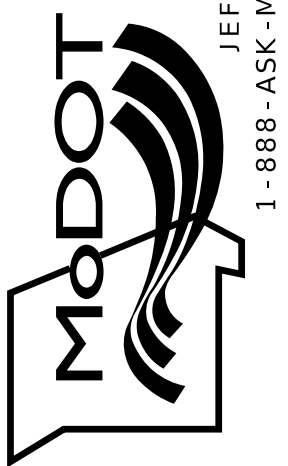
ADVANCED SIGNING WARNING MOTORISTS OF THE TRAFFIC PACING SHALL BE PROVIDED DURING PACING OPERATION

TRAFFIC CONTROL
SHEET 9 OF 20

DESCRIPTION

DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION



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

EFK Moen
Civil Engineering Design

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Suite 250
St. Louis, MO 63021
Phone 314-394-3100
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STATE OF MISSOURI
 PAUL JOSEPH KRONLAGE
 NUMBER 023328
 REGISTERED PROFESSIONAL ENGINEER

Paul J. Kronlage
 08/10/2024 11:04:11 AM
 Paul J. Kronlage - Civil
 MO PE - 023328

DATE PREPARED
 8/9/2024

ROUTE 1-44 STATE MO

DISTRICT CD SHEET NO. 36

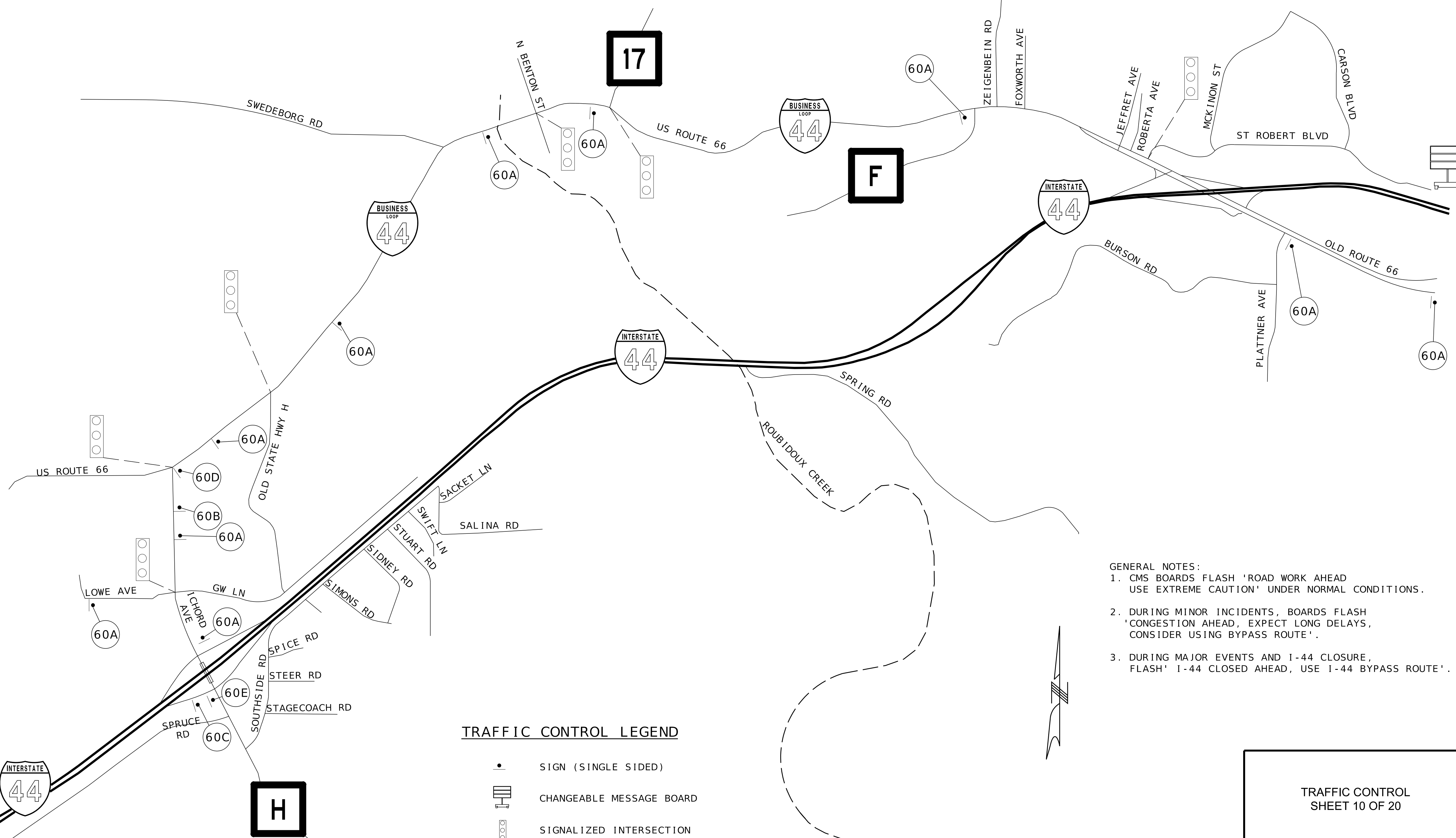
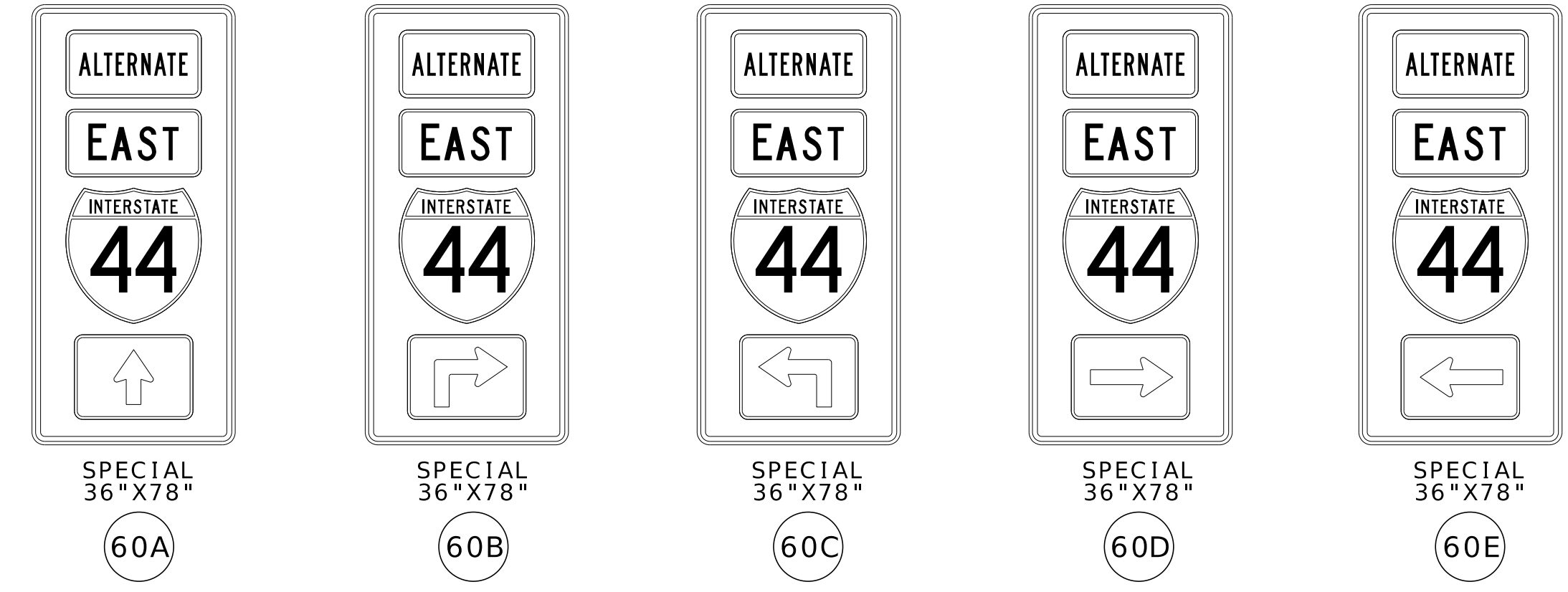
COUNTY PULASKI

JOB NO. JCD0111

CONTRACT ID.

PROJECT NO.

BRIDGE NO.



TRAFFIC CONTROL LEGEND

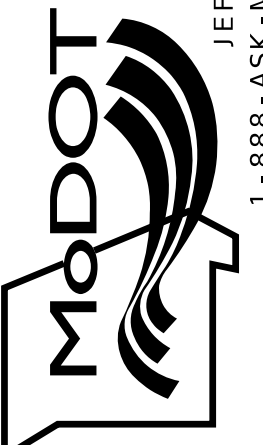
- SIGN (SINGLE SIDED)
- [Symbol] CHANGEABLE MESSAGE BOARD
- [Symbol] SIGNALIZED INTERSECTION

- GENERAL NOTES:
1. CMS BOARDS FLASH 'ROAD WORK AHEAD USE EXTREME CAUTION' UNDER NORMAL CONDITIONS.
 2. DURING MINOR INCIDENTS, BOARDS FLASH 'CONGESTION AHEAD, EXPECT LONG DELAYS, CONSIDER USING BYPASS ROUTE'.
 3. DURING MAJOR EVENTS AND I-44 CLOSURE, FLASH 'I-44 CLOSED AHEAD, USE I-44 BYPASS ROUTE'.

TRAFFIC CONTROL
 SHEET 10 OF 20

DATE	DESCRIPTION

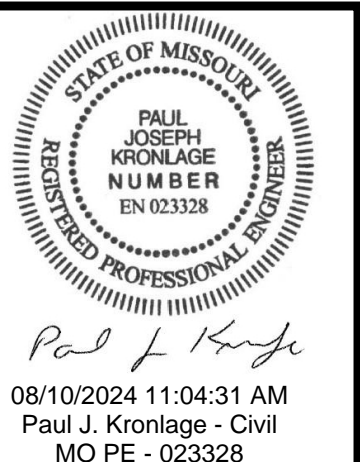
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION



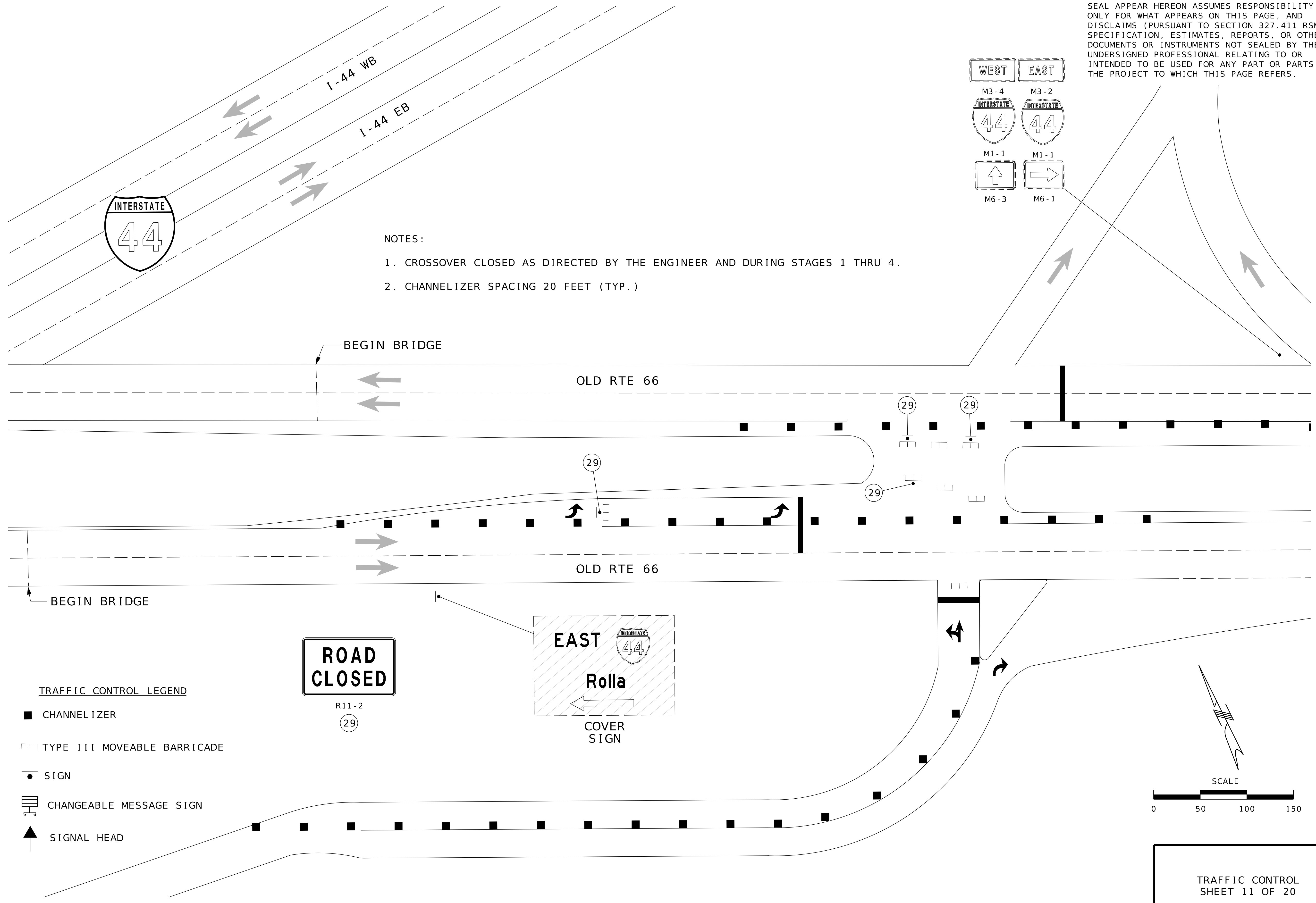
105 WEST CAPITOL
 JEFFERSON CITY, MO 65102
 1-888-ASK-MODOT (1-888-275-6636)

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

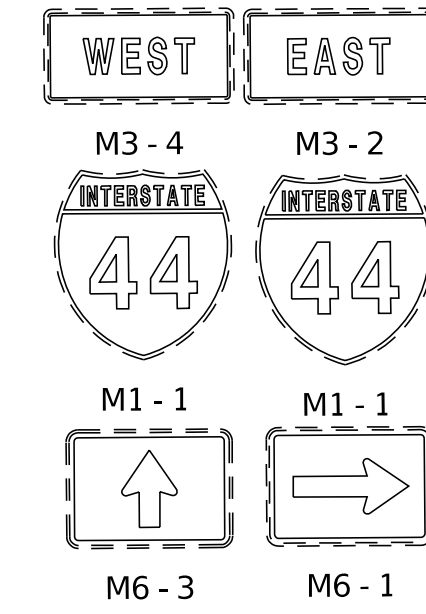
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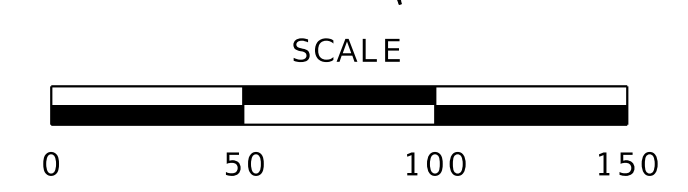
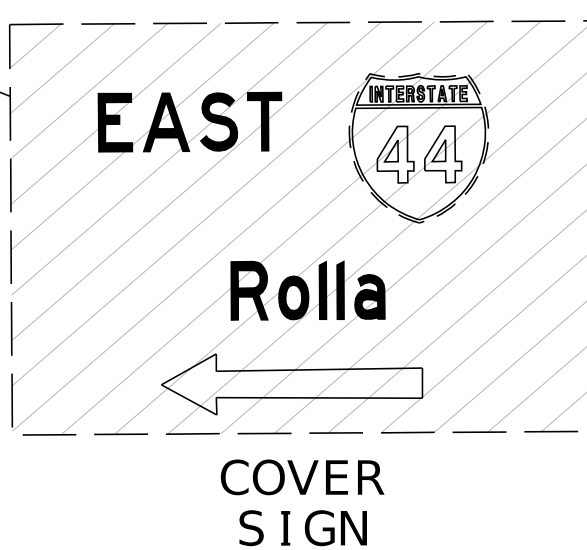
Paul J. Kronlage
Paul J. Kronlage - Civil
MO PE - 023328
DATE PREPARED
8/9/2024
ROUTE I - 44
STATE MO
DISTRICT CD
SHEET NO. 37
COUNTY PULASKI
JOB NO. JCD0111
CONTRACT ID.
PROJECT NO.
BRIDGE NO.



NOTES:
1. CROSSOVER CLOSED AS DIRECTED BY THE ENGINEER AND DURING STAGES 1 THRU 4.
2. CHANNELIZER SPACING 20 FEET (TYP.)



TRAFFIC CONTROL LEGEND
■ CHANNELIZER
□ TYPE III MOVEABLE BARRICADE
● SIGN
□ CHANGEABLE MESSAGE SIGN
▲ SIGNAL HEAD



TRAFFIC CONTROL SHEET 11 OF 20

DESCRIPTION	DATE

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

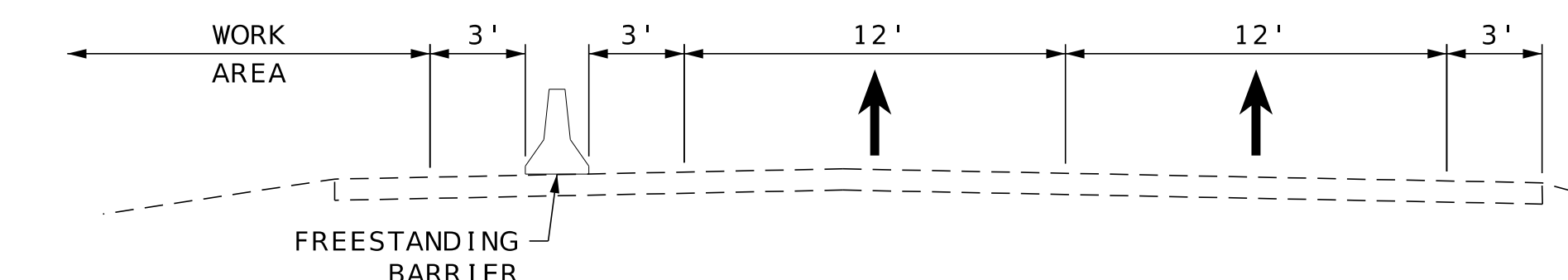
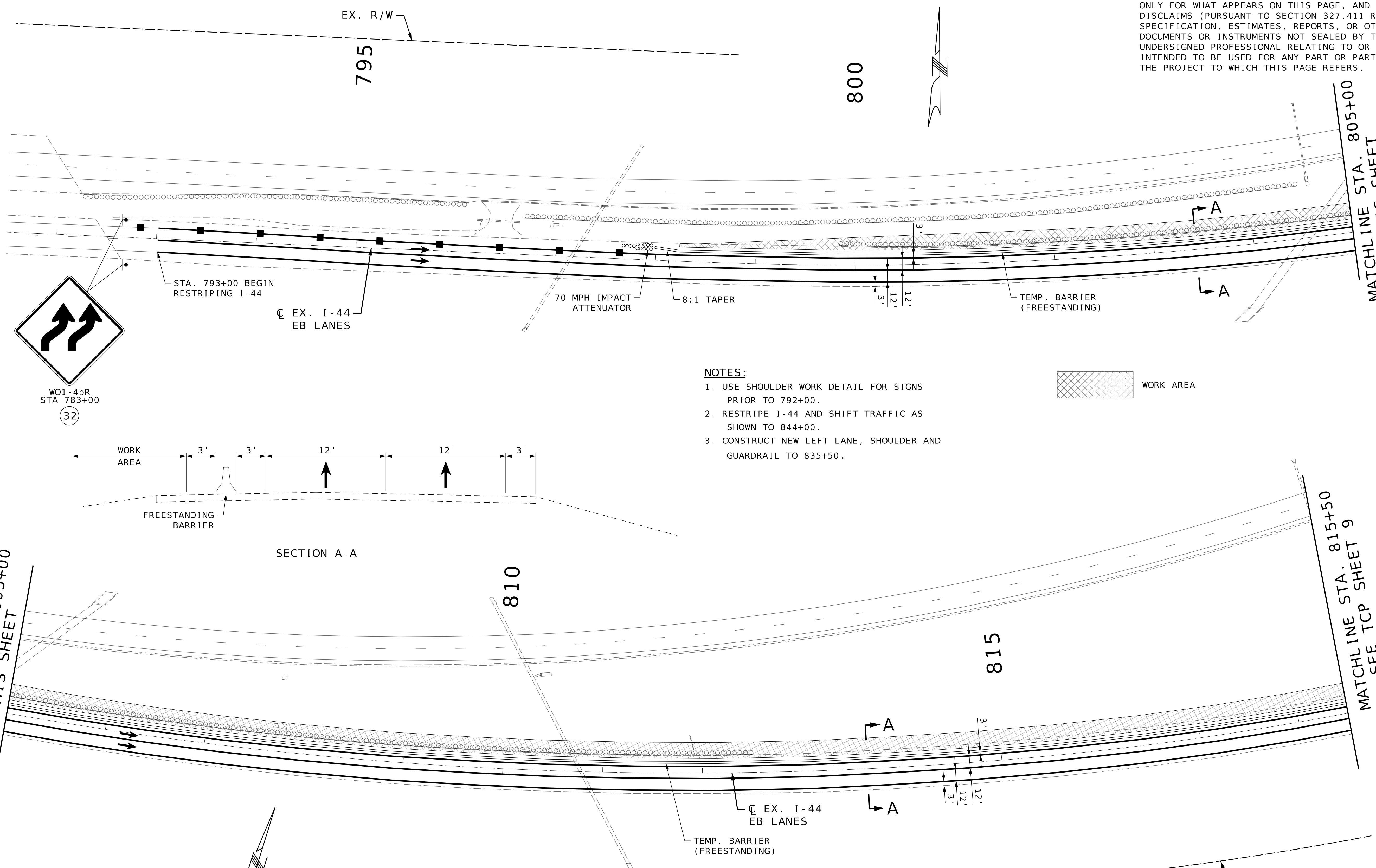
EFK Moen
Civil Engineering Design
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Suite 250
St. Louis, MO 63021
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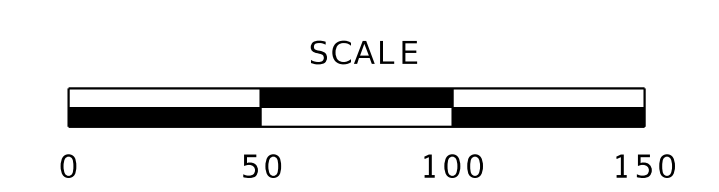
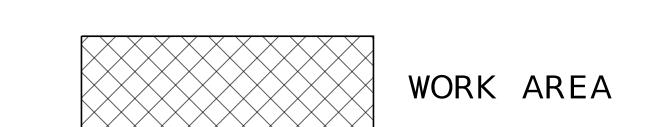


Paul J. Kronlage
 08/10/2024 11:07:42 AM
 Paul J. Kronlage - Civil
 MO PE - 023328

DATE PREPARED	8/10/2024		
ROUTE	1-44	STATE	MO
DISTRICT	CD	SHEET NO.	38
COUNTY	PULASKI		
JOB NO.	JCD0111		
CONTRACT ID.			
PROJECT NO.			
BRIDGE NO.			



- NOTES:**
- USE SHOULDER WORK DETAIL FOR SIGNS PRIOR TO 792+00.
 - RESTRIPE I-44 AND SHIFT TRAFFIC AS SHOWN TO 844+00.
 - CONSTRUCT NEW LEFT LANE, SHOULDER AND GUARDRAIL TO 835+50.



TRAFFIC CONTROL
 STAGE 1
 SHEET 12 OF 20

DESCRIPTION	DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL
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EFK Moen
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 08/10/2024 11:08:16 AM
 Paul J. Kronlage - Civil
 MO PE - 023328

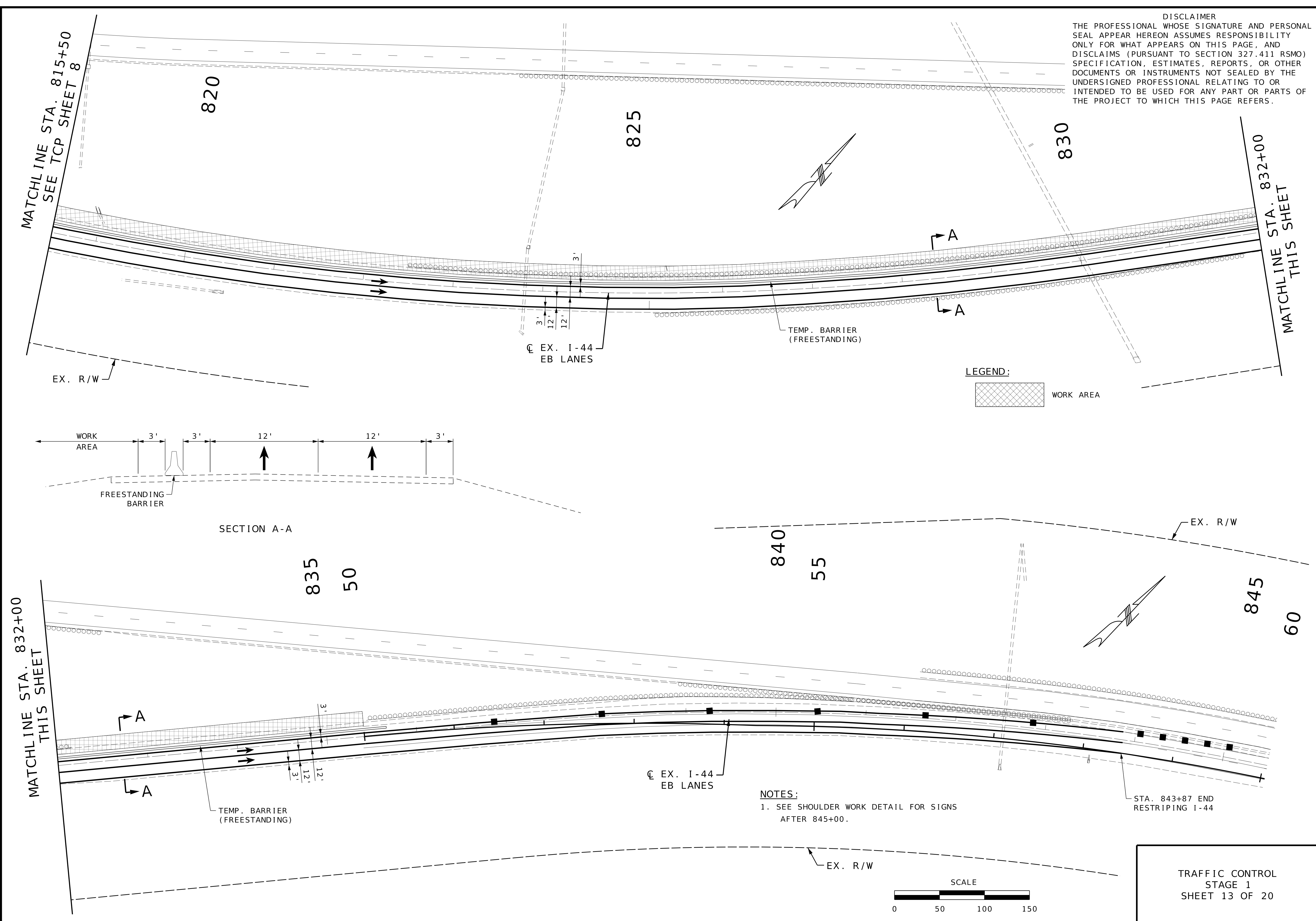
DATE PREPARED 8/10/2024	
ROUTE I-44	STATE MO
DISTRICT CD	SHEET NO. 39
COUNTY PULASKI	
JOB NO. JCD0111	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

DATE	DESCRIPTION

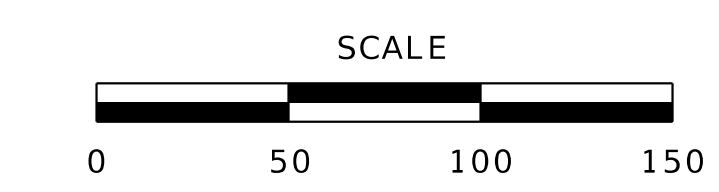
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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NOTES:
 1. SEE SHOULDER WORK DETAIL FOR SIGNS AFTER 845+00.



TRAFFIC CONTROL
 STAGE 1
 SHEET 13 OF 20

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Paul J. Kronlage
 08/10/2024 11:09:46 AM
 Paul J. Kronlage - Civil
 MO PE - 023328

DATE PREPARED
 8/10/2024
 ROUTE STATE
 I-44 MO
 DISTRICT SHEET NO.
 CD 40
 COUNTY
 PULASKI
 JOB NO.
 JCD0111
 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)

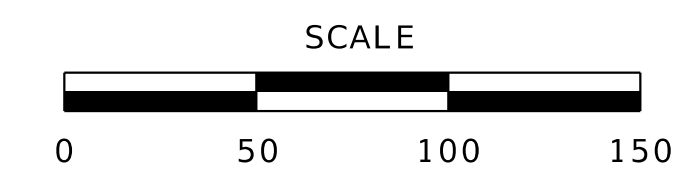
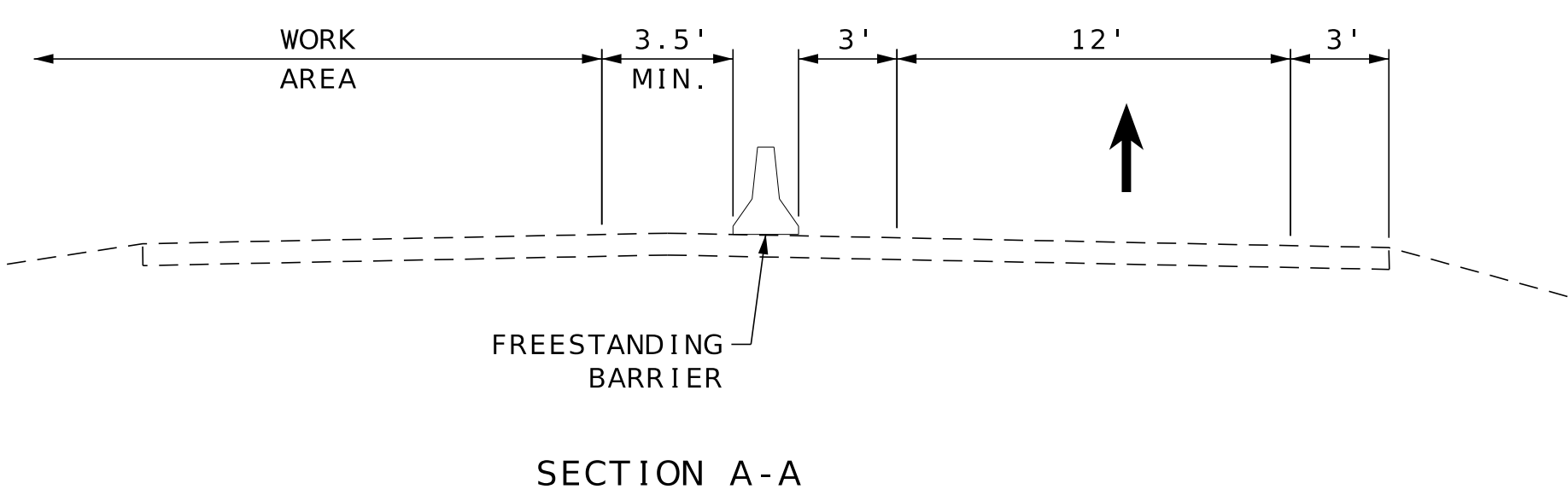
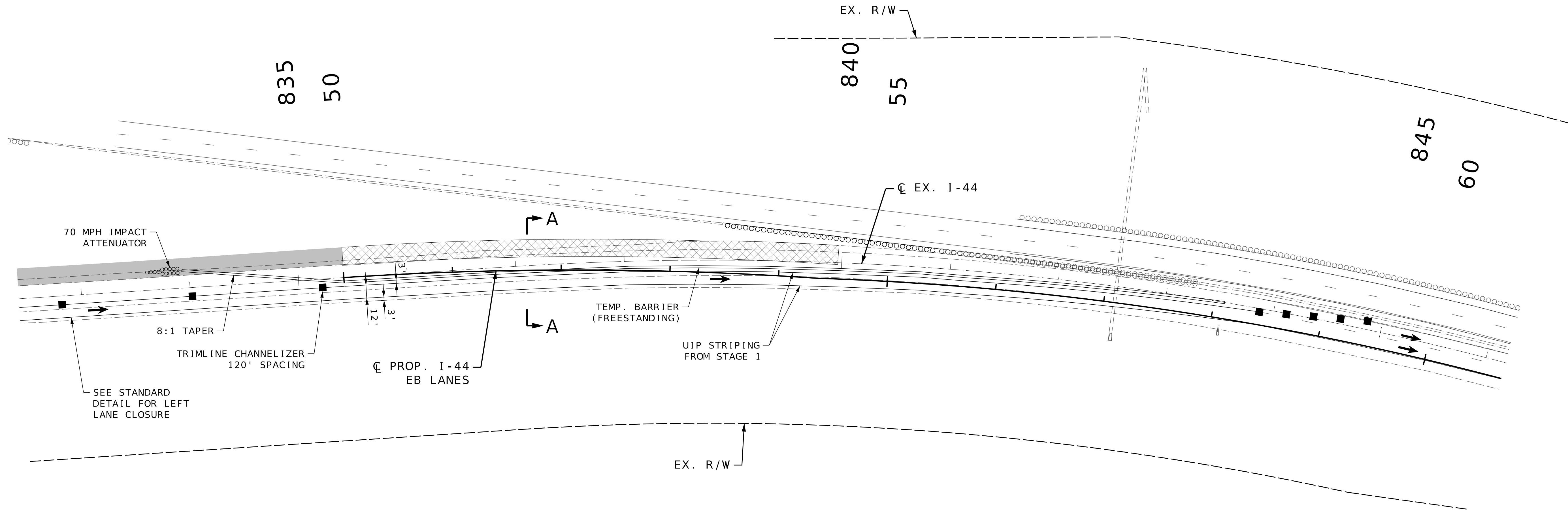
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 Phone 314-394-3100
 Fax 314-394-3199
 Missouri Certificate of Authority: 001578

LEGEND:

- WORK AREA
- PREVIOUS CONSTRUCTION

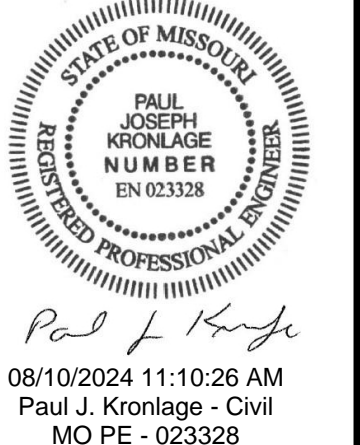
NOTES:

1. CLOSE LEFT LANE, RELOCATE BARRIER AND BUILD LEFT LANE TRANSITION PAVEMENT AND REMAINING LEFT SHOULDER.
2. USE STRIPING FROM STAGE 1.
3. USE SINGLE LANE CLOSURE DETAIL FOR SIGNS PRIOR TO 835+00.
4. SEE JSPs FOR OTHER DETAILS AND TIME RESTRICTIONS.



TRAFFIC CONTROL
 STAGE 2
 SHEET 14 OF 20

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DATE PREPARED
8/10/2024

ROUTE	STATE
I-44	MO
DISTRICT	SHEET NO.
CD	41

COUNTY
PULASKI

JOB NO.
JCD0111

CONTRACT ID.

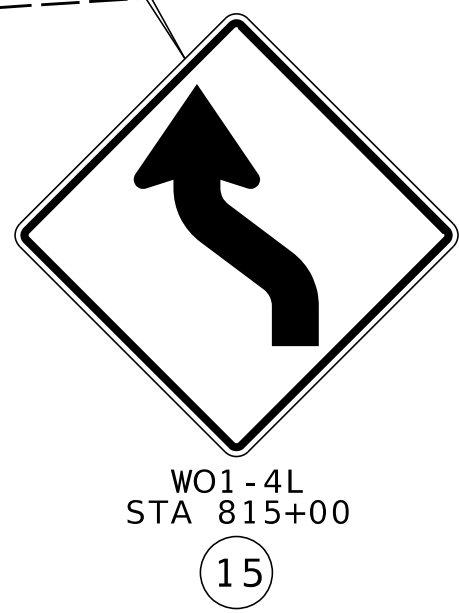
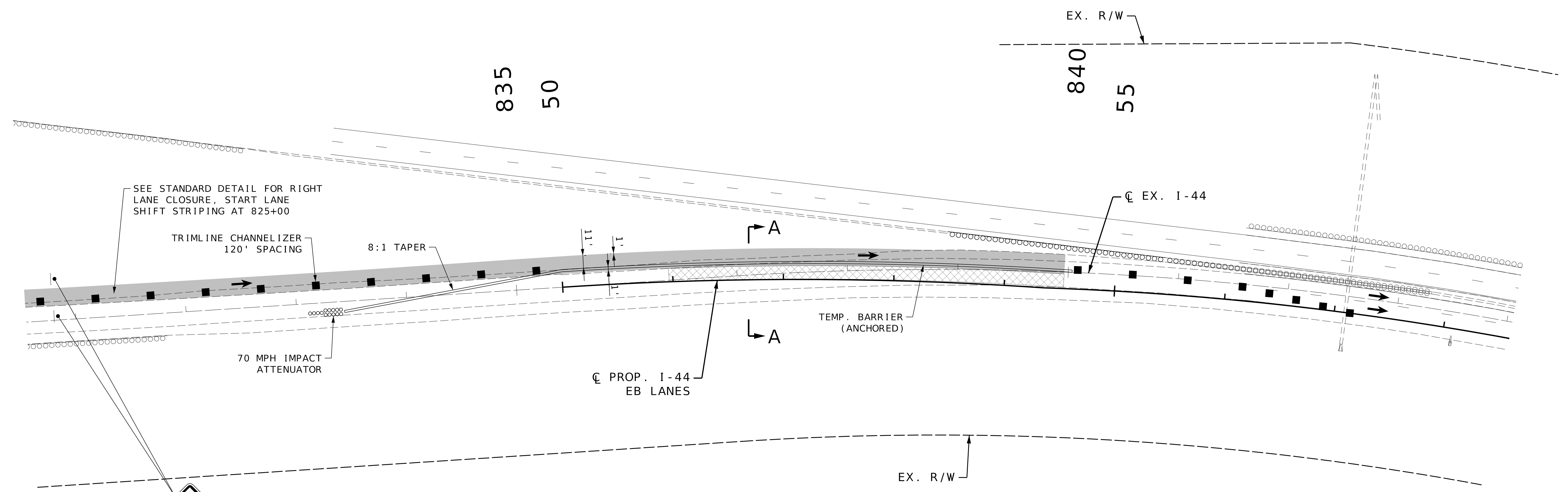
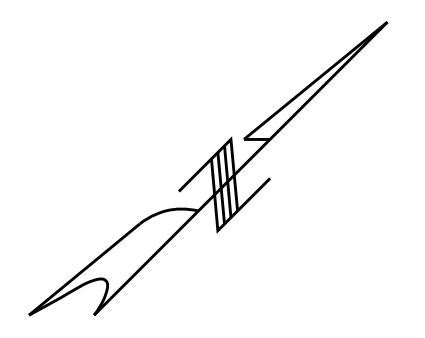
PROJECT NO.

BRIDGE NO.

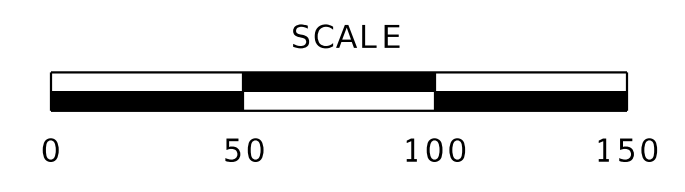
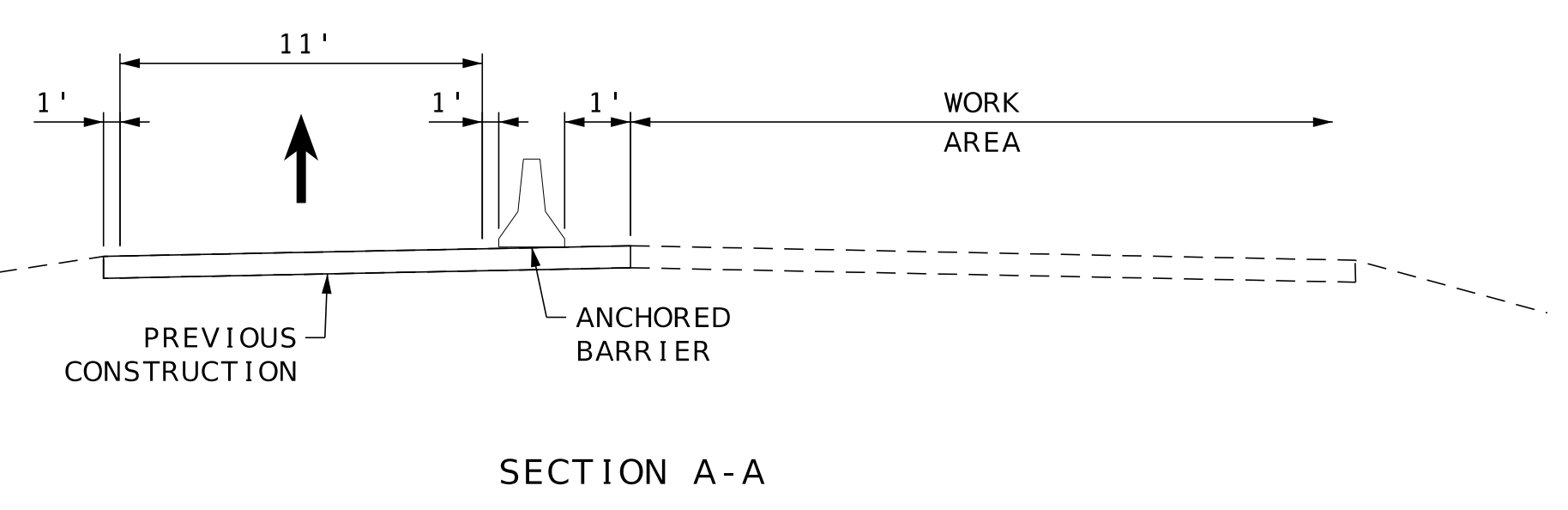
LEGEND:

WORK AREA

PREVIOUS CONSTRUCTION



- NOTES:**
1. STRIPE I-44 TO ULTIMATE LOCATION FROM 791+00 TO 820+45. NEW CLIMBING LANE TO REMAIN CLOSED WITH TRIMLINE CHANNELIZERS.
 2. CLOSE RIGHT LANE AND SHIFT LEFT LANE ONTO NEW LEFT LANE PAVEMENT AND SHOULDER FROM 830+00 TO 842+00.
 3. CONSTRUCT NEW CENTERLINE TRANSITION PAVEMENT AS SHOWN.
 4. SEE JSPs FOR OTHER DETAILS AND TIME RESTRICTIONS.



TRAFFIC CONTROL
 STAGE 3
 SHEET 15 OF 20

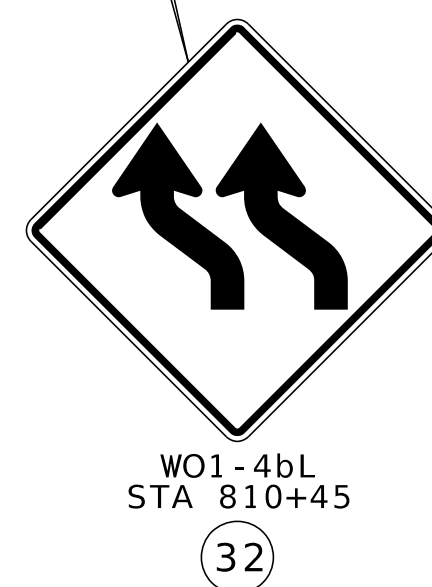
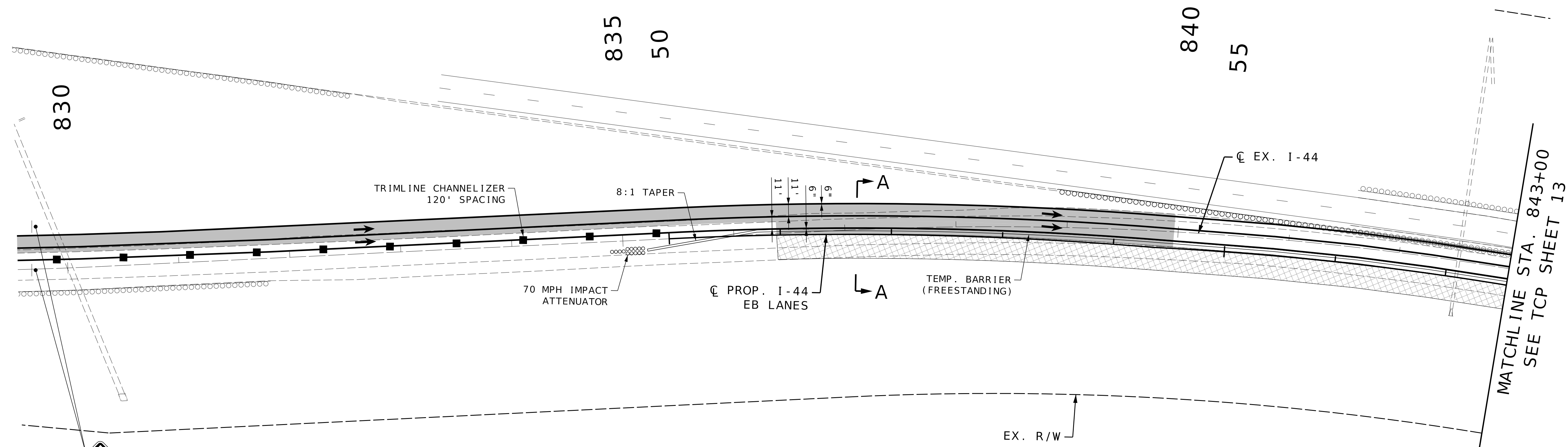
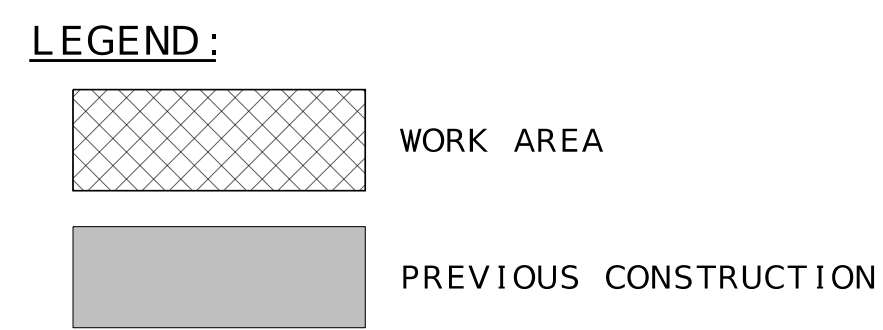
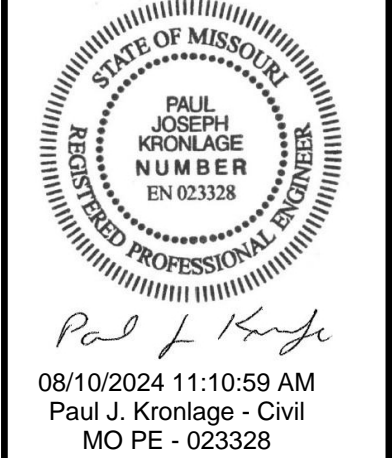
DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

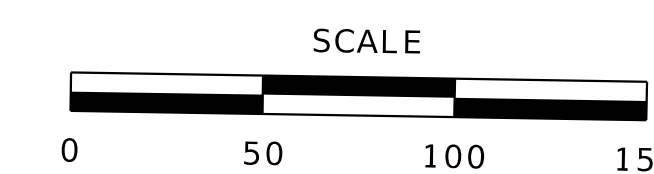
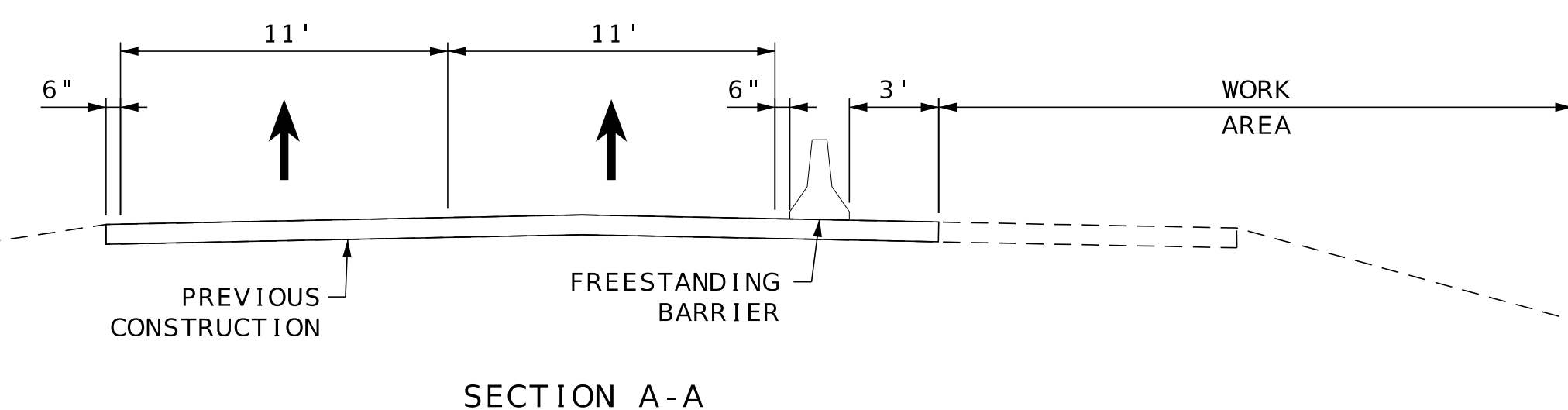
105 WEST CAPITOL
 JEFFERSON CITY, MO 65102
 1-888-ASK-MODOT (1-888-275-6636)

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

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- NOTES:
1. OPEN RIGHT LANE, SHIFT RIGHT LANE WITH LEFT LANE AS INDICATED IN STAGE 3.
 2. CLOSE EXIT RAMP.
 3. BUILD PAVEMENT AND EXIT RAMP AS SHOWN.
 4. USE SINGLE LANE CLOSURE DETAIL FOR SIGNS PRIOR TO 835+00 AND AFTER 870+00.



TRAFFIC CONTROL
 STAGE 4
 SHEET 16 OF 20

DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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

EFK Moen
 Civil Engineering Design

13523 Barrett Parkway Dr
 Suite 250
 St. Louis, MO 63021
 Phone 314-394-3100
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Paul J. Kronlage
 08/10/2024 11:11:45 AM
 Paul J. Kronlage - Civil
 MO PE - 023328

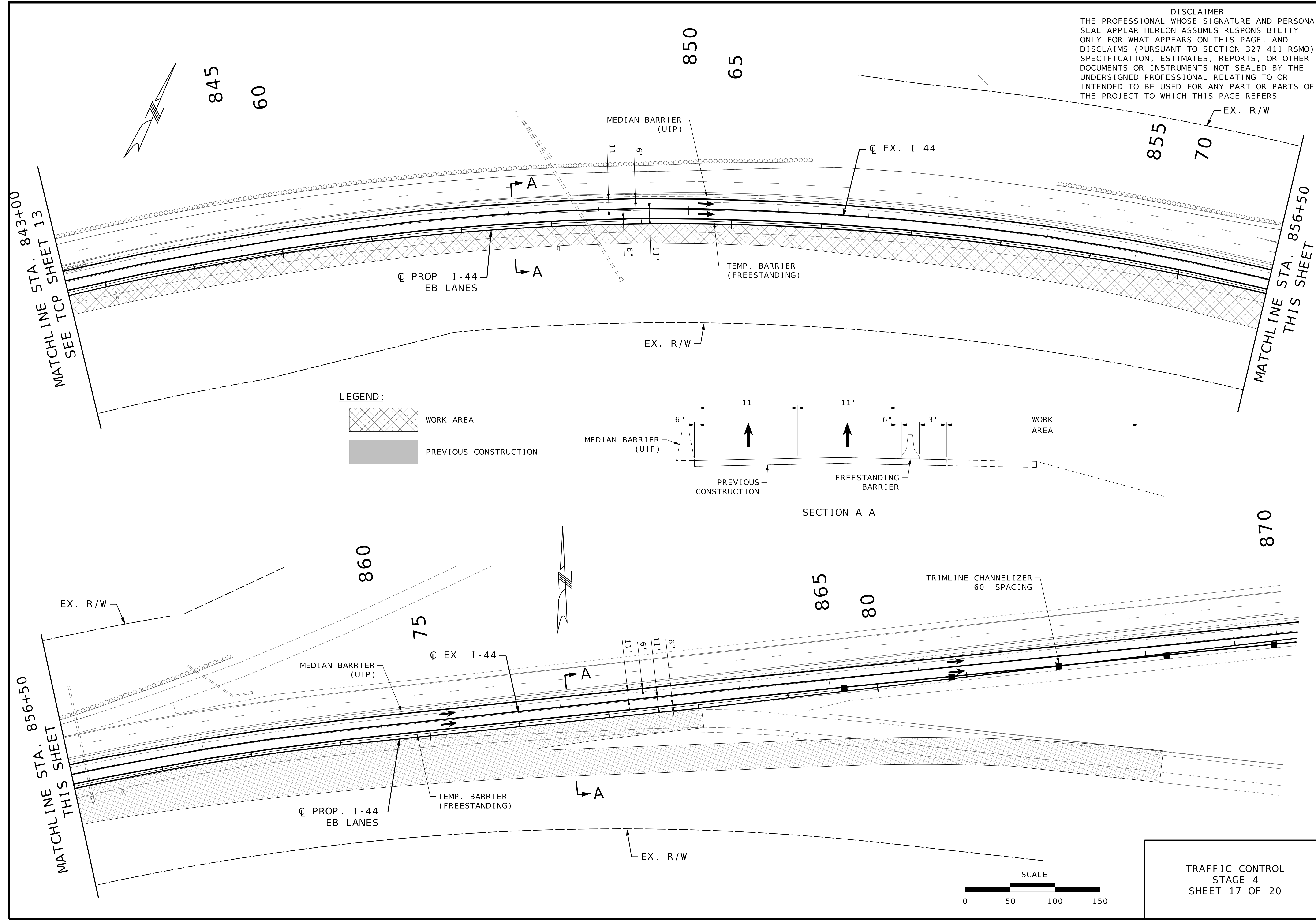
DATE PREPARED 8/10/2024	
ROUTE I-44	STATE MO
DISTRICT CD	SHEET NO. 43
COUNTY PULASKI	
JOB NO. JCD0111	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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

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



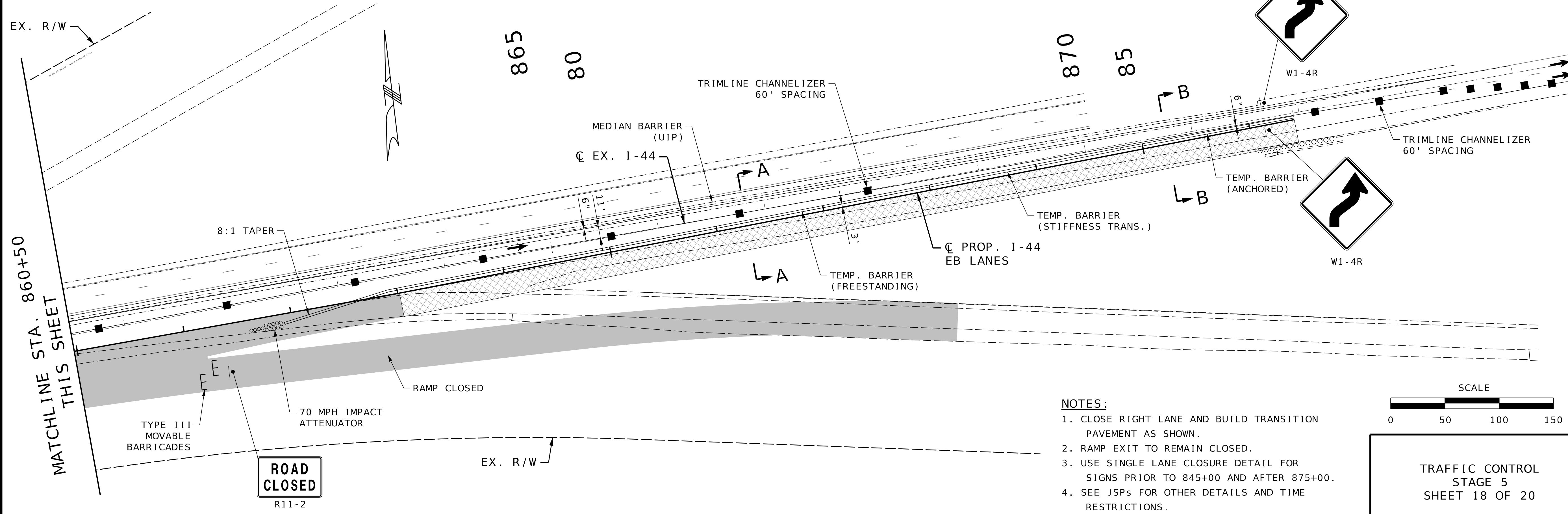
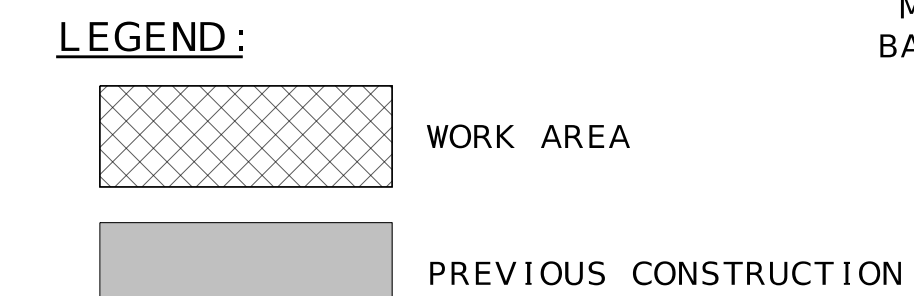
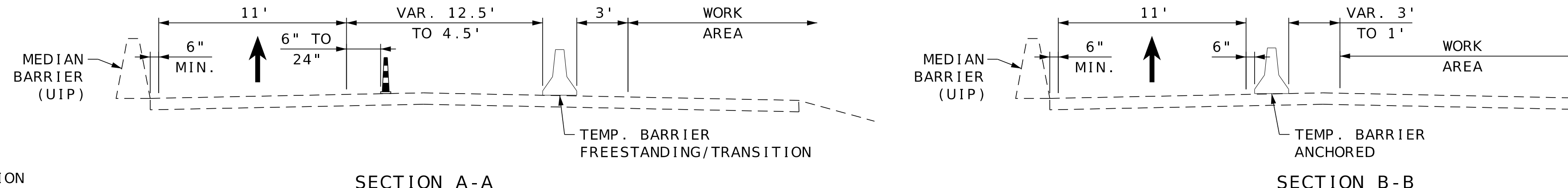
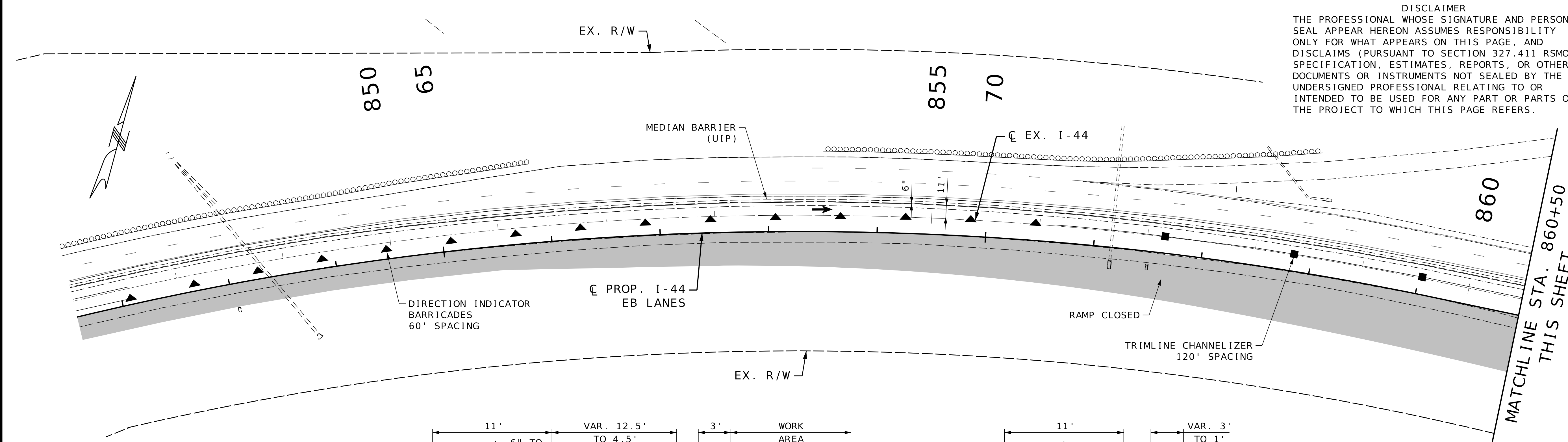
TRAFFIC CONTROL
 STAGE 4
 SHEET 17 OF 20

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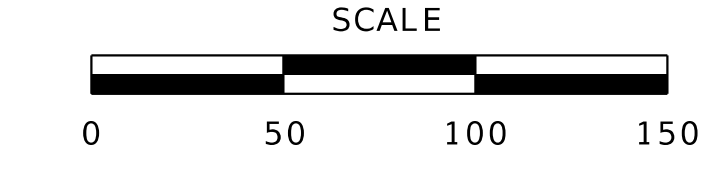


Paul J. Kronlage
 08/10/2024 11:12:45 AM
 Paul J. Kronlage - Civil
 MO PE - 023328

DATE PREPARED 8/10/2024	
ROUTE I-44	STATE MO
DISTRICT CD	SHEET NO. 44
COUNTY PULASKI	
JOB NO. JCD0111	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	



- NOTES:
1. CLOSE RIGHT LANE AND BUILD TRANSITION PAVEMENT AS SHOWN.
 2. RAMP EXIT TO REMAIN CLOSED.
 3. USE SINGLE LANE CLOSURE DETAIL FOR SIGNS PRIOR TO 845+00 AND AFTER 875+00.
 4. SEE JSPs FOR OTHER DETAILS AND TIME RESTRICTIONS.



TRAFFIC CONTROL
 STAGE 5
 SHEET 18 OF 20

DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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

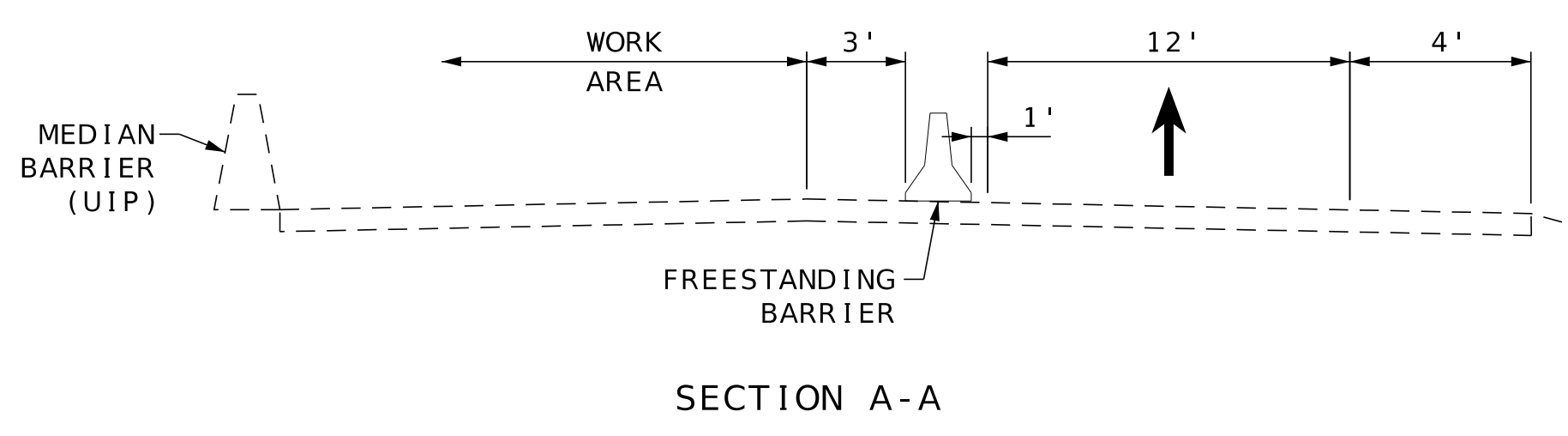
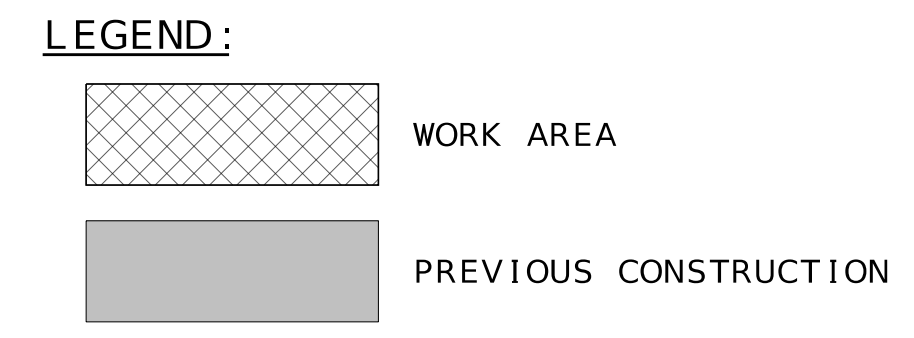
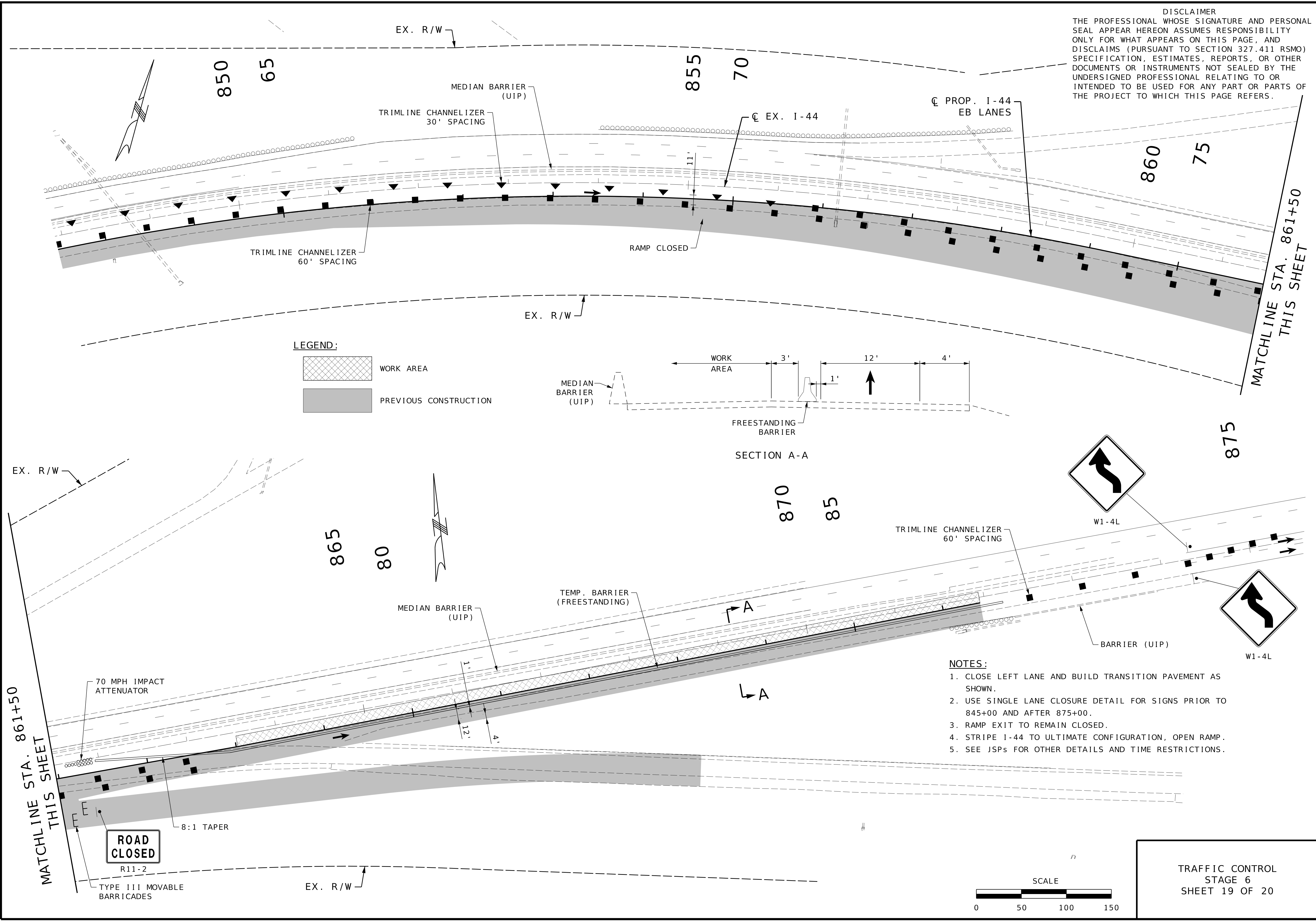
EFK Moen
 Civil Engineering Design
 13523 Barrett Parkway Dr
 Suite 250
 St. Louis, MO 63021
 Phone 314-394-3100
 Fax 314-394-3199
 Missouri Certificate of Authority: 001578

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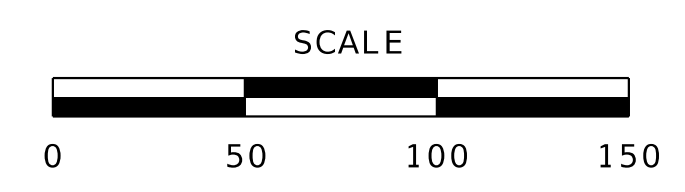


Paul J. Kronlage
 08/10/2024 11:13:41 AM
 Paul J. Kronlage - Civil
 MO PE - 023328

DATE PREPARED 8/10/2024	
ROUTE I-44	STATE MO
DISTRICT CD	SHEET NO. 45
COUNTY PULASKI	
JOB NO. JCD0111	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	



- NOTES:**
1. CLOSE LEFT LANE AND BUILD TRANSITION PAVEMENT AS SHOWN.
 2. USE SINGLE LANE CLOSURE DETAIL FOR SIGNS PRIOR TO 845+00 AND AFTER 875+00.
 3. RAMP EXIT TO REMAIN CLOSED.
 4. STRIPE I-44 TO ULTIMATE CONFIGURATION, OPEN RAMP.
 5. SEE ISPs FOR OTHER DETAILS AND TIME RESTRICTIONS.



TRAFFIC CONTROL
 STAGE 6
 SHEET 19 OF 20

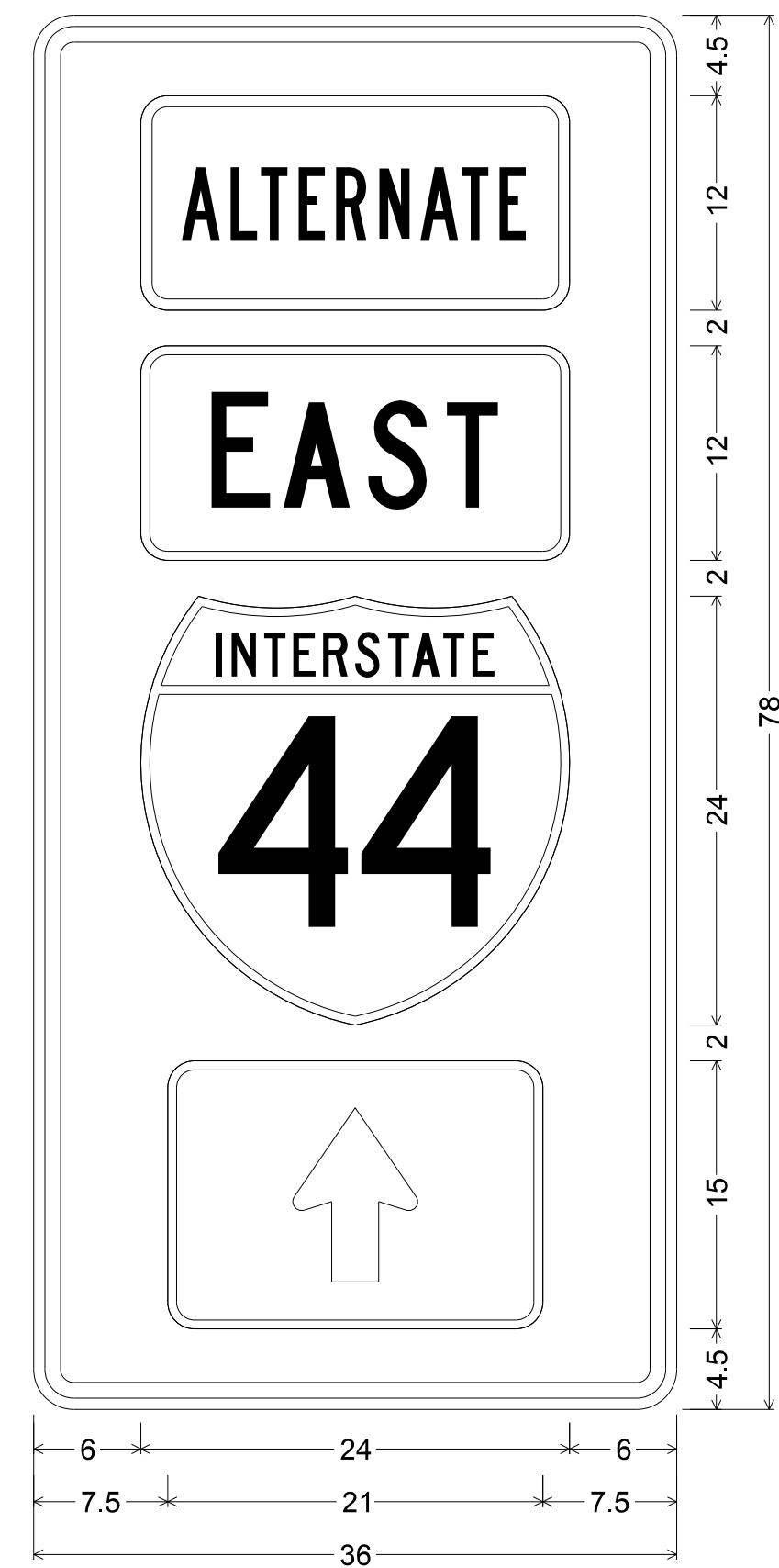
DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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

EFK Moen
 Civil Engineering Design

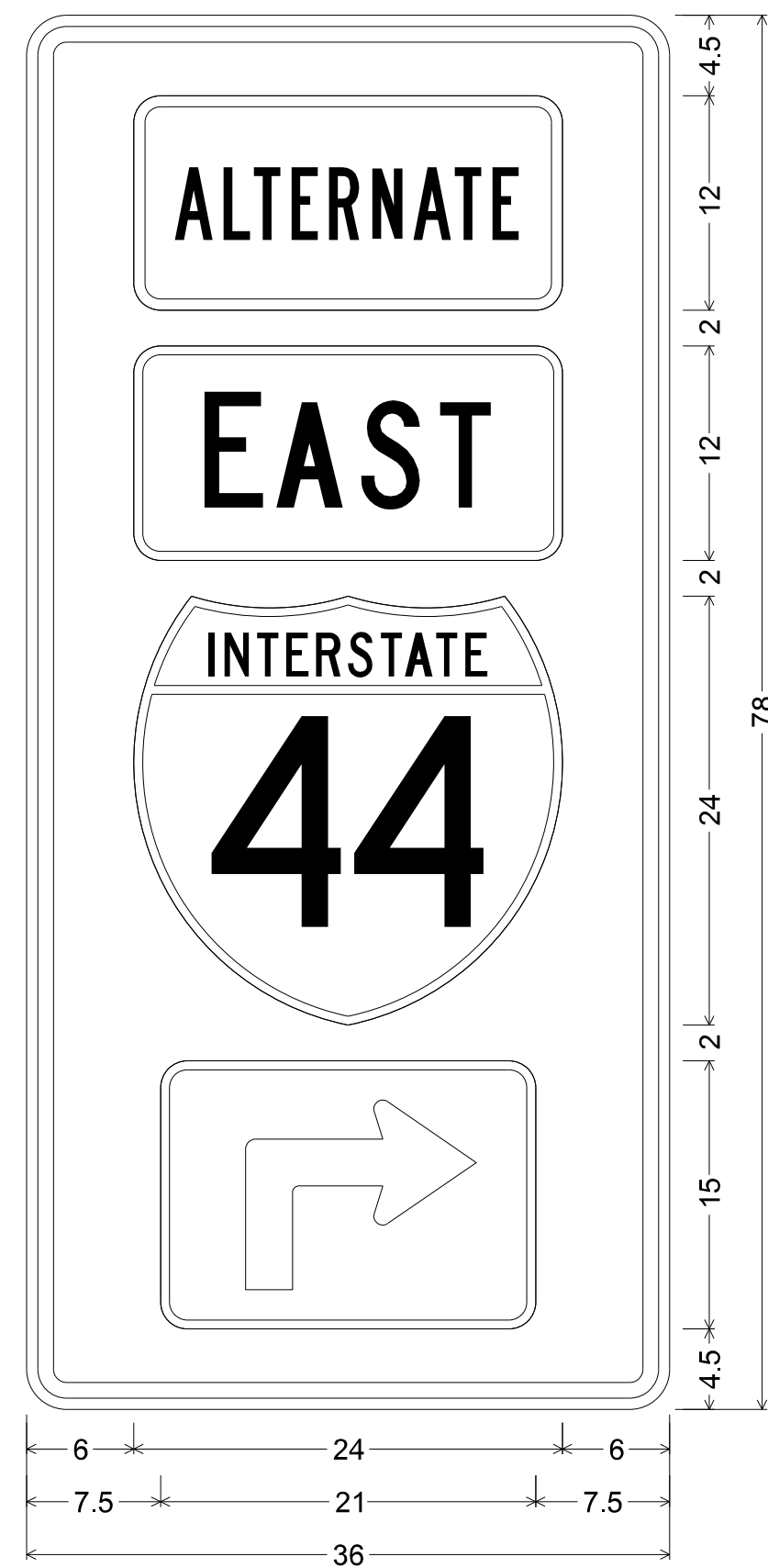
13523 Barrett Parkway Dr
 Suite 250
 St. Louis, MO 63021
 Phone 314-394-3100
 Fax 314-394-3199
 Missouri Certificate of Authority: 001578



MO4-11-36 SHF-FLAT SHEET FLUORESCENT;
 2.250" Radius, 0.875" Border, 0.625" Indent, Black on, Orange;
 Interstate 44 12.000" C;
 Table of letter and object lefts

6.000
6.000
6.000
6.000
7.500

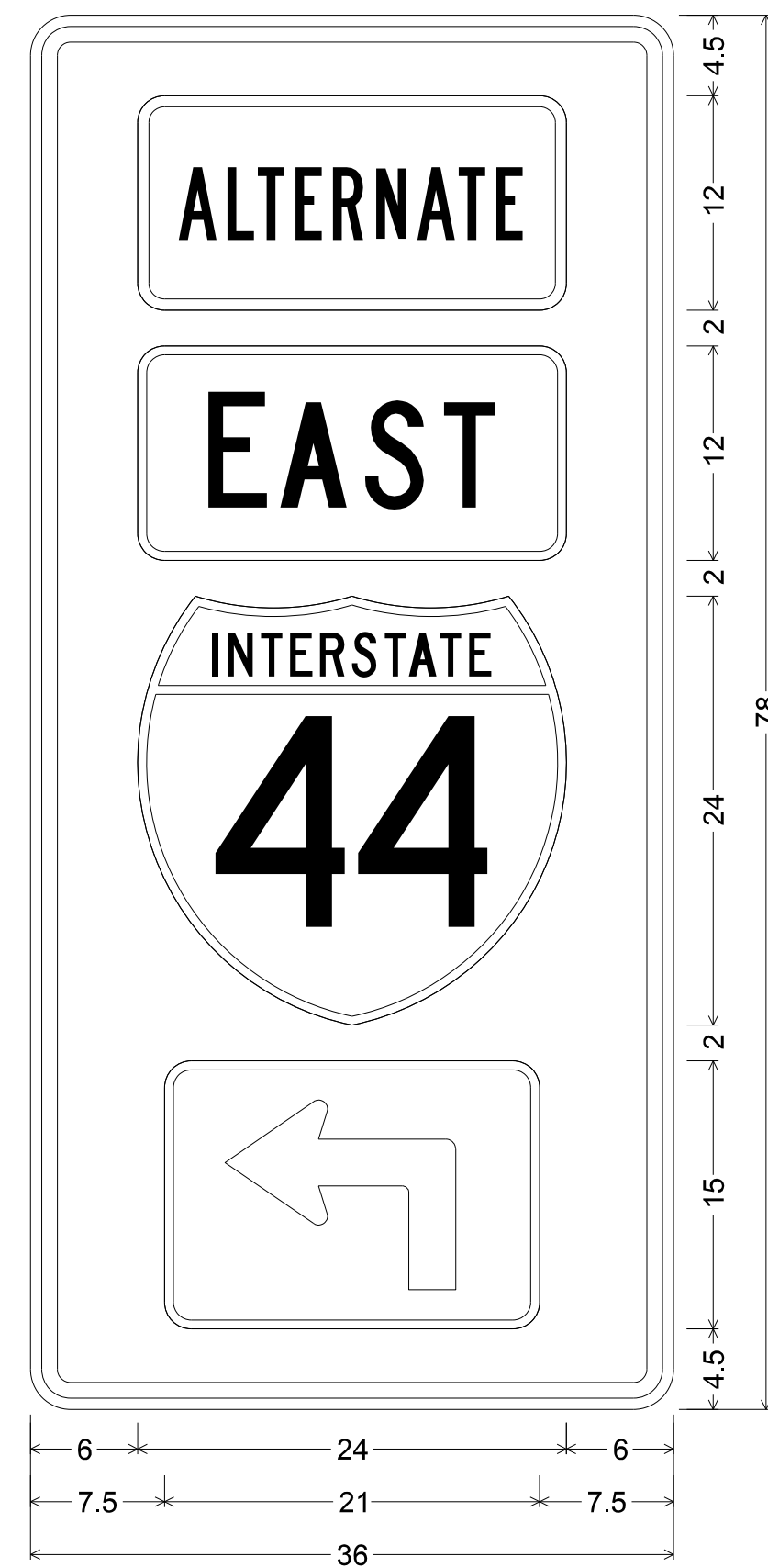
SIGN NO 60A



MO4-11-36 SHF-FLAT SHEET FLUORESCENT;
 2.250" Radius, 0.875" Border, 0.625" Indent, Black on, Orange;
 Interstate 44 12.000" C;
 Table of letter and object lefts

6.000
6.000
6.000
6.000
7.500

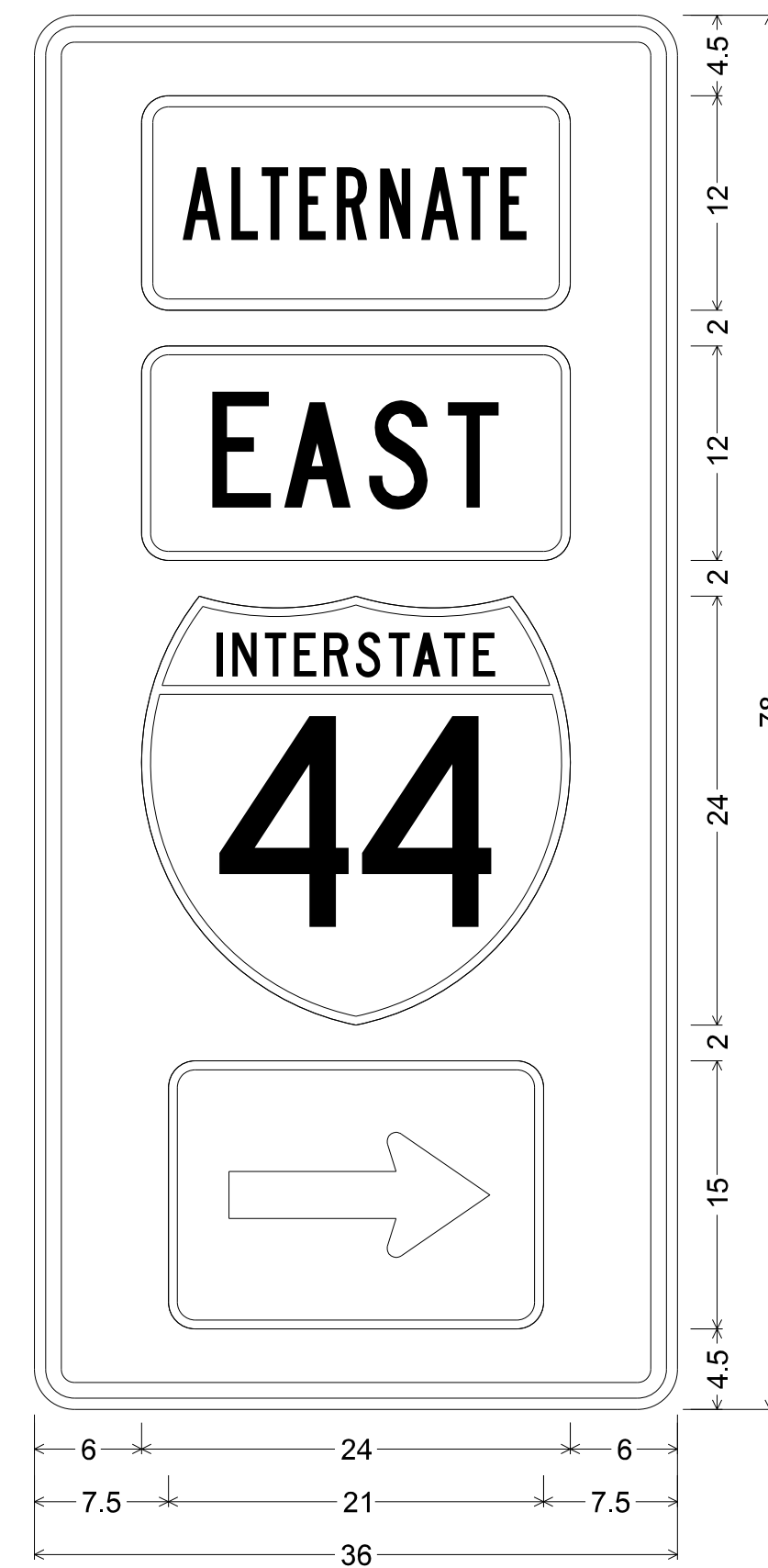
SIGN NO 60B



MO4-11-36 SHF-FLAT SHEET FLUORESCENT;
 2.250" Radius, 0.875" Border, 0.625" Indent, Black on, Orange;
 Interstate 44 12.000" C;
 Table of letter and object lefts

6.000
6.000
6.000
6.000
7.500

SIGN NO 60C



MO4-11-36 SHF-FLAT SHEET FLUORESCENT;
 2.250" Radius, 0.875" Border, 0.625" Indent, Black on, Orange;
 Interstate 44 12.000" C;
 Table of letter and object lefts

6.000
6.000
6.000
6.000
7.500

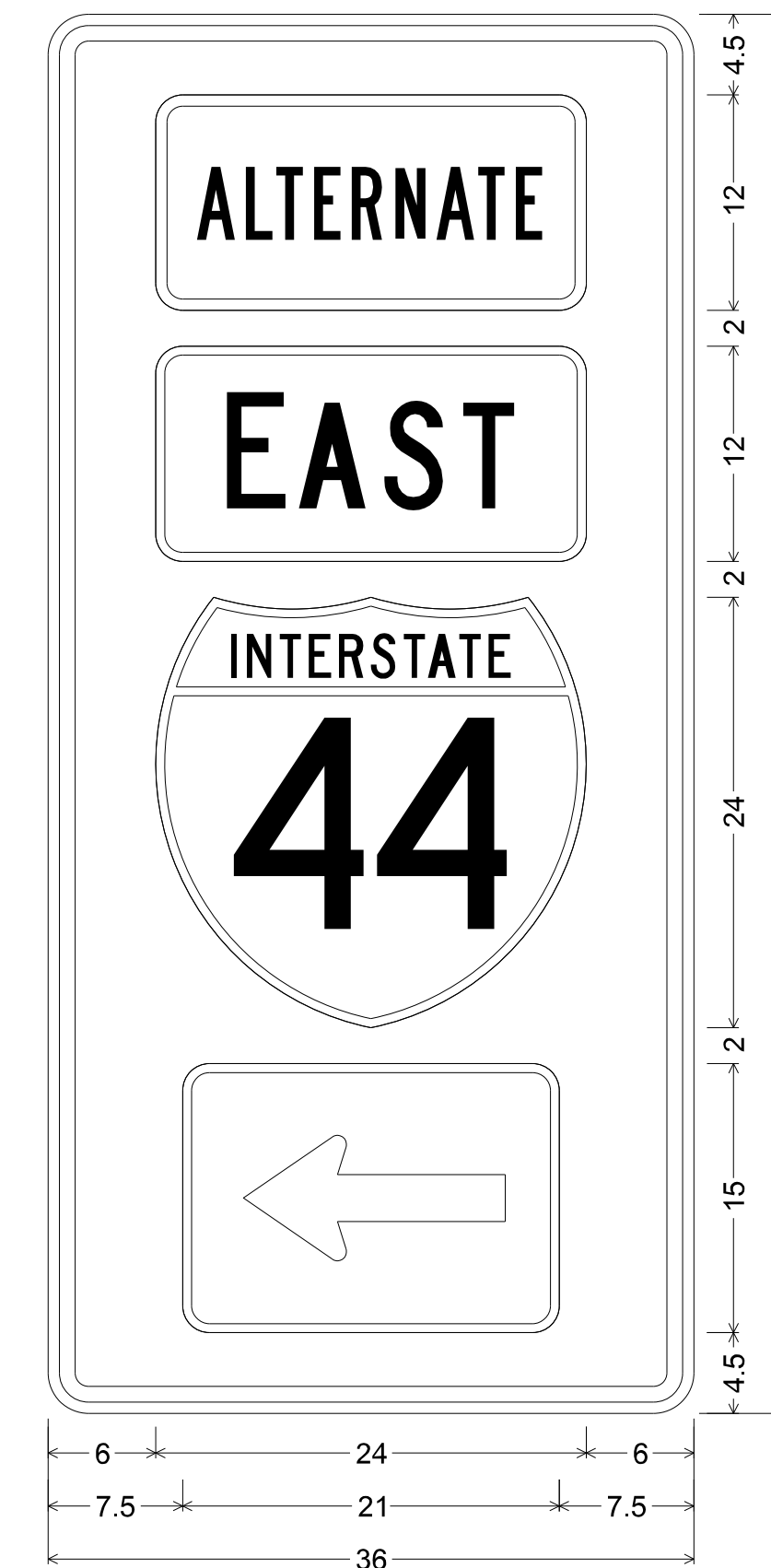
SIGN NO 60D

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Paul J. Kronlage
 08/21/2024 3:10:52 PM
 Paul J. Kronlage - Civil
 MO PE - 023328

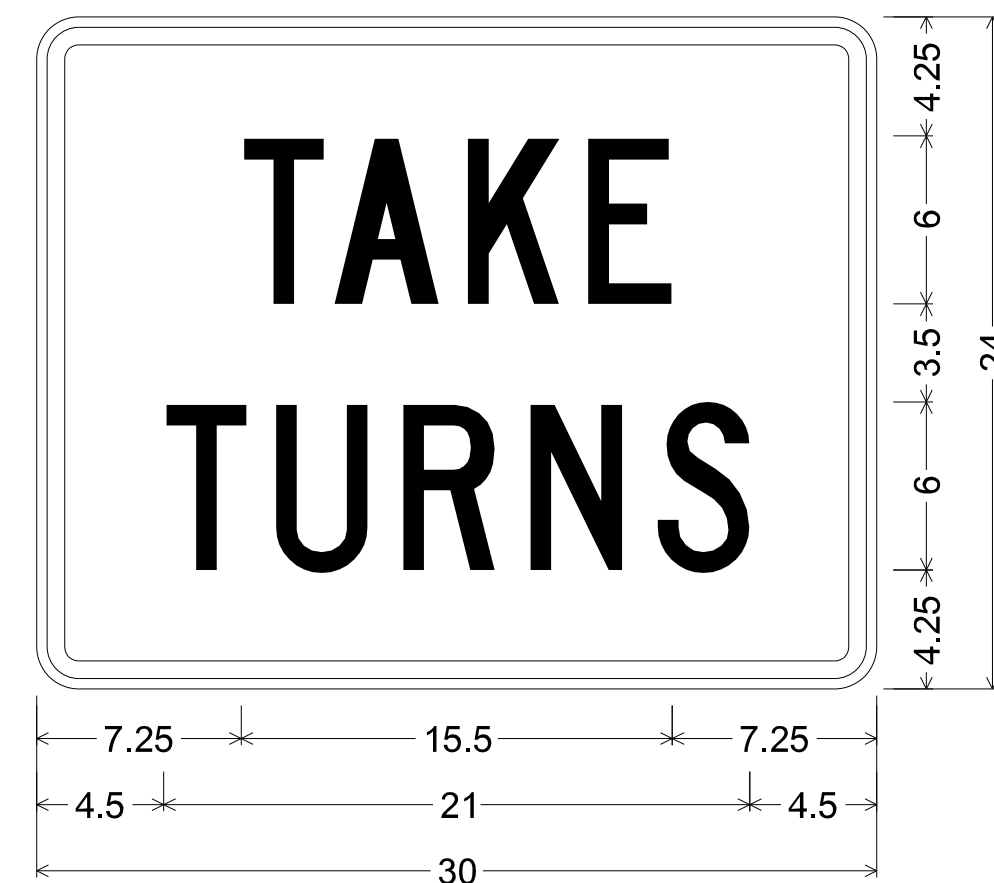
DATE PREPARED	8/19/2024
ROUTE	I - 44
STATE	MO
DISTRICT	CD
SHEET NO.	46
COUNTY	PULASKI
JOB NO.	JCD0111
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	



MO4-11-36 SHF-FLAT SHEET FLUORESCENT;
 2.250" Radius, 0.875" Border, 0.625" Indent, Black on, Orange;
 Interstate 44 12.000" C;
 Table of letter and object lefts

6.000
6.000
6.000
7.500

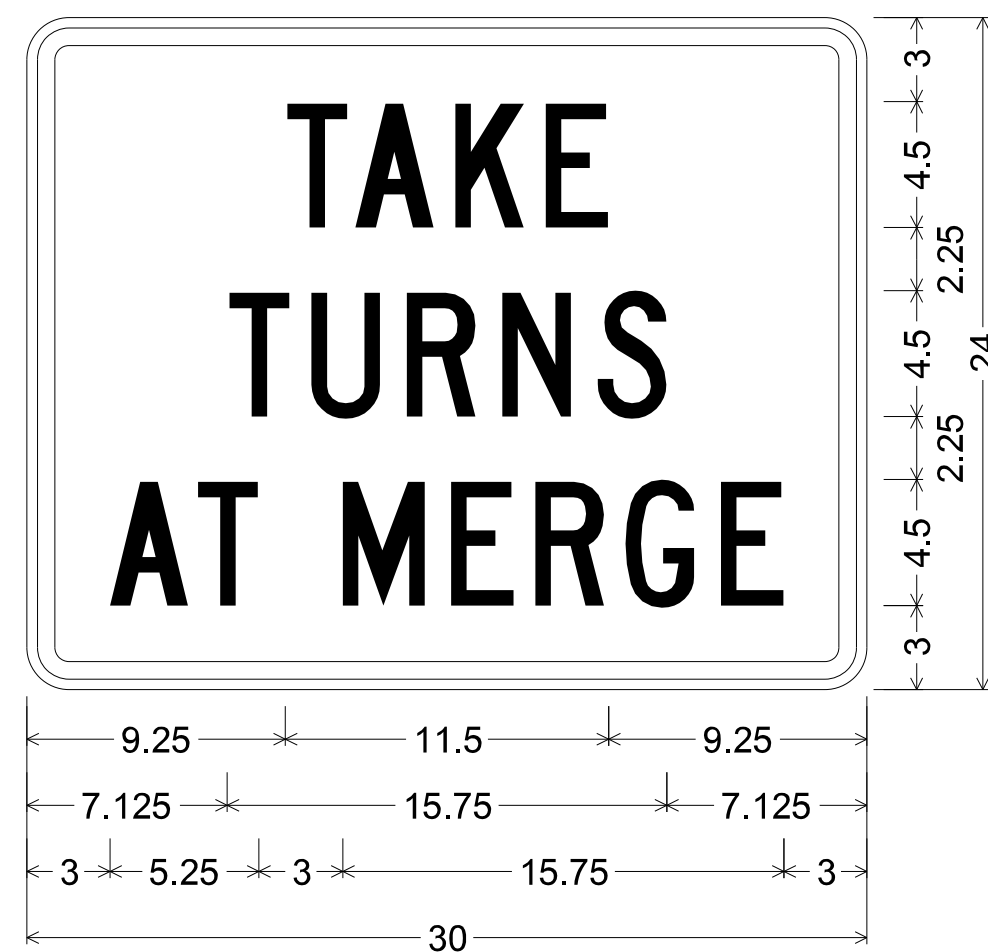
SIGN NO 60E



SPECIAL SHF-FLAT SHEET FLUORESCENT;
 1.500" Radius, 0.625" Border, 0.375" Indent, Black on Orange;
 [TAKE] C; [TURNS] C;
 Table of letter and object lefts.

T	A	K	E	
7.250	10.625	15.375	19.750	
T	U	R	N	S
4.500	8.500	13.125	17.625	22.125

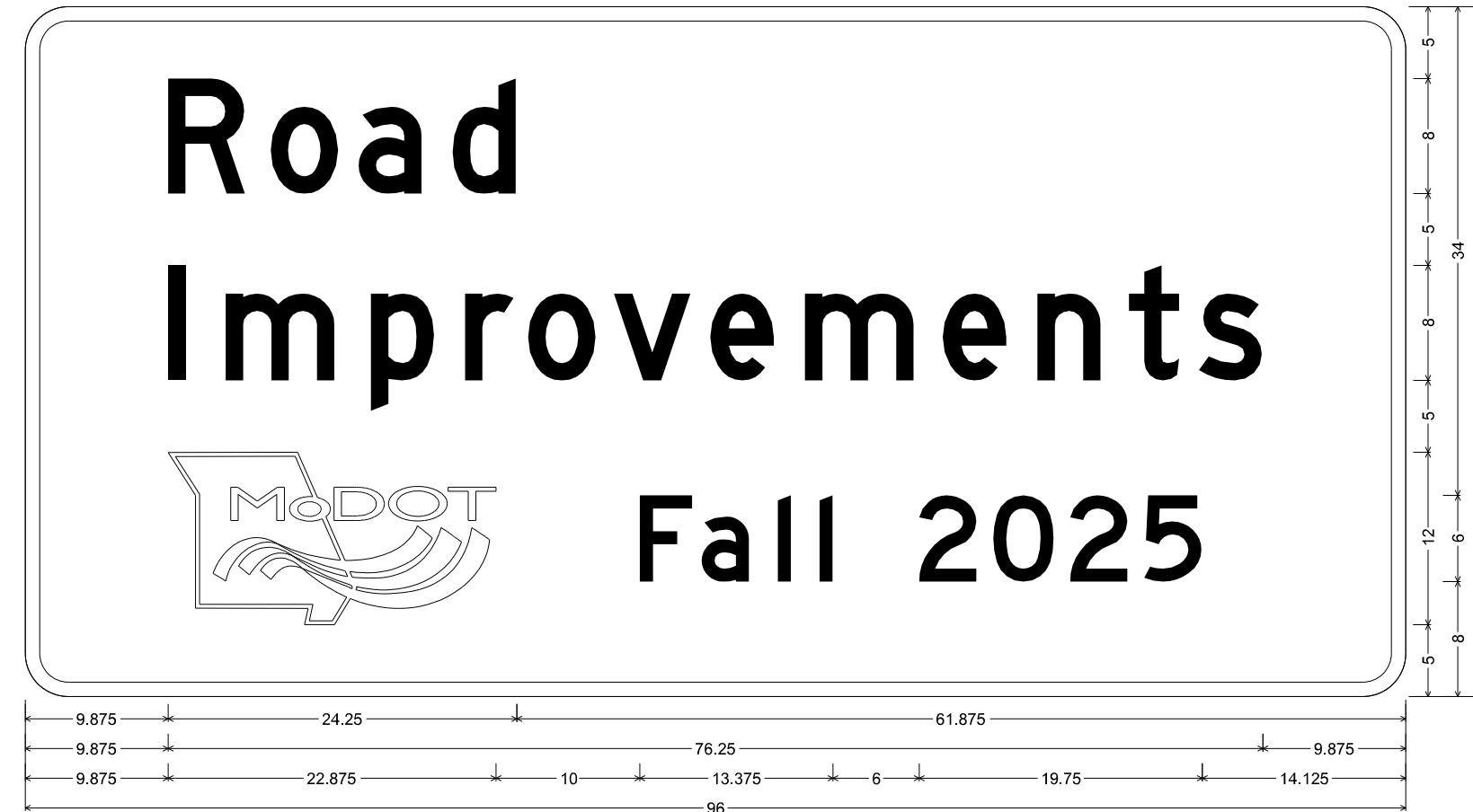
SIGN NO 73



SPECIAL SHF-FLAT SHEET FLUORESCENT;
 1.500" Radius, 0.625" Border, 0.375" Indent, Black on Orange;
 [TAKE] C; [TURNS] C; [AT MERGE] C;
 Table of letter and object lefts.

T	A	K	E			
9.250	11.750	15.250	18.500			
T	U	R	N	S		
7.125	10.125	13.625	17.000	20.375		
A	T	M	E	R	G	E
3.000	6.000	11.250	15.125	18.125	21.375	24.750

SIGN NO 72



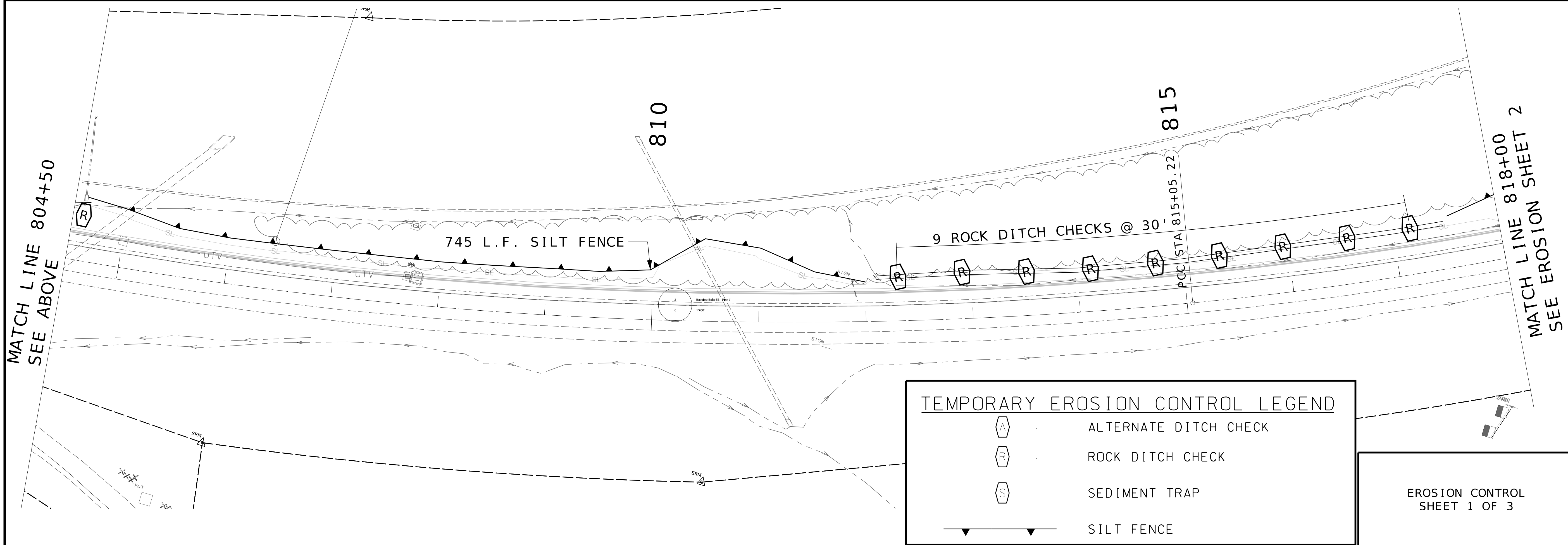
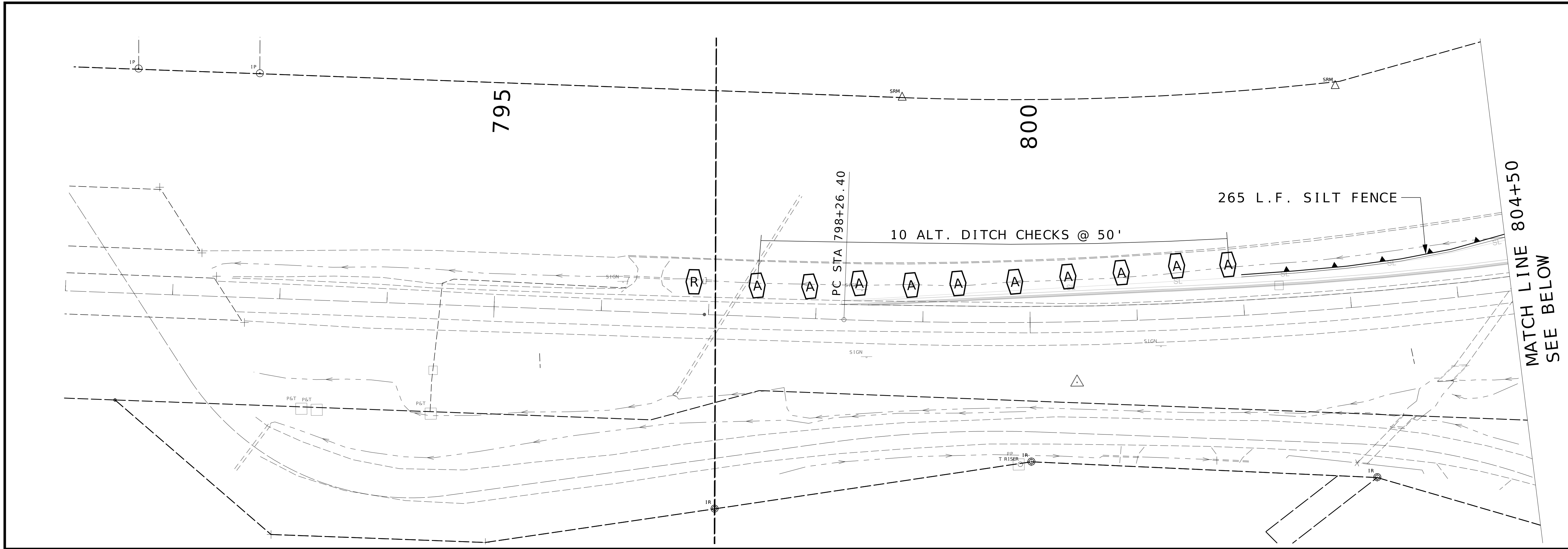
CONST-5-98 SH-FLAT SHEET;
 3.000" Radius, 1.000" Border, White on, Blue;
 "Road", D: "Improvements", D: "Fall 2025", D:
 Table of letter and object lefts

R	o	a	d	I	m	p	r	o	v	e	m	e	n	t	s
9.875	17.125	23.125	29.750												
9.875	14.000	24.000	30.625	35.000	41.000	47.625	54.250	63.750	70.375	76.750	81.625				
9.875	42.750	47.000	52.375	55.250	62.125	67.375	72.625	77.875							

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

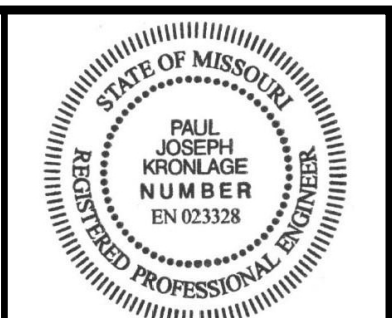
105 WEST CAPITOL
 JEFFERSON CITY, MO 65102
 1-888-ASK-MODOT (1-888-275-6636)

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



TEMPORARY EROSION CONTROL LEGEND	
	ALTERNATE DITCH CHECK
	ROCK DITCH CHECK
	SEDIMENT TRAP
	SILT FENCE

EROSION CONTROL
SHEET 1 OF 3



Paul J. Kronlage
08/10/2024 9:27:55 AM
Paul J. Kronlage - Civil
MO PE - 023328

DATE PREPARED
8/9/2024

ROUTE I - 44	STATE MO
DISTRICT CD	SHEET NO. 47

COUNTY
PULASKI

JOB NO.
JCD0111

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)

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



Paul J. Kronlage
 08/10/2024 9:28:20 AM
 Paul J. Kronlage - Civil
 MO PE - 023328

DATE PREPARED
 8/9/2024
 ROUTE STATE
 I - 44 MO
 DISTRICT SHEET NO.
 CD 48
 COUNTY
 PULASKI
 JOB NO.
 JCD0111
 CONTRACT ID.

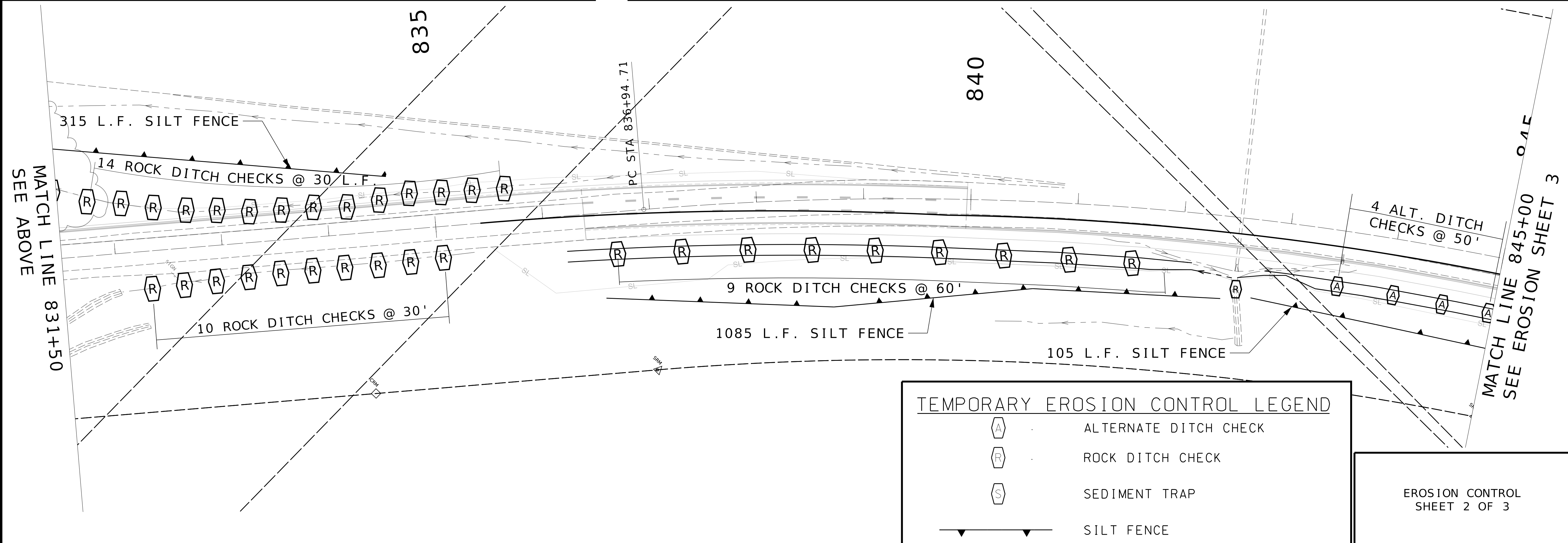
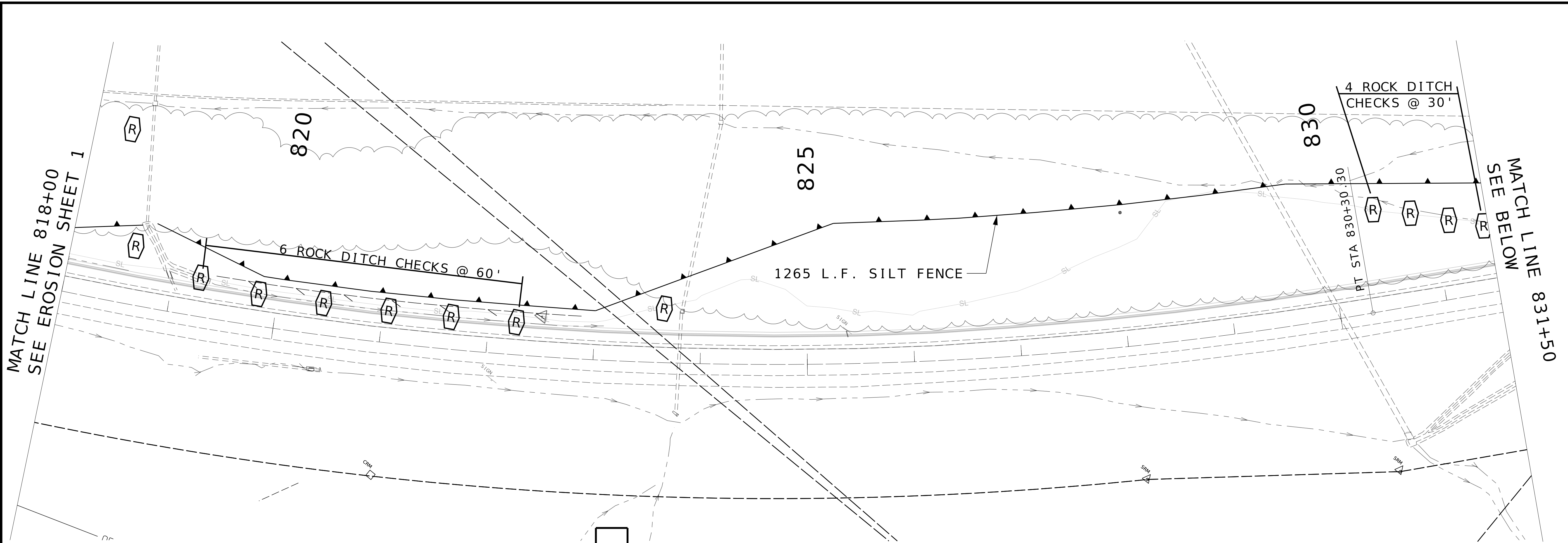
PROJECT NO.
 BRIDGE NO.

DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION



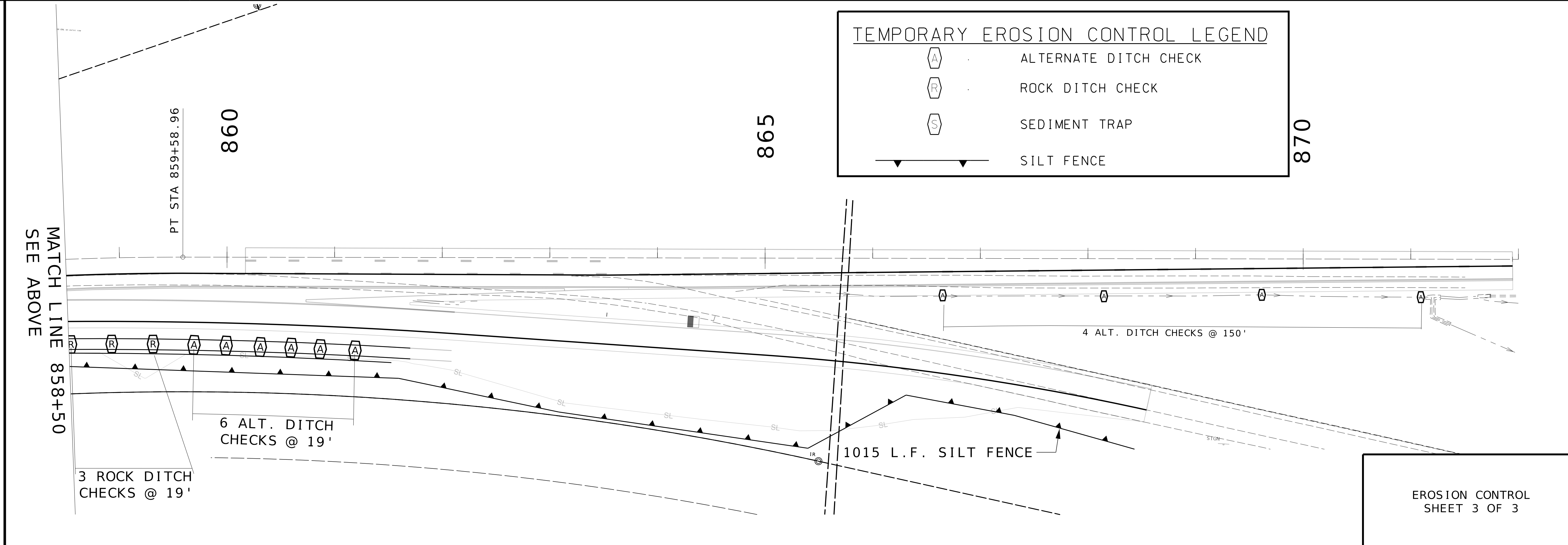
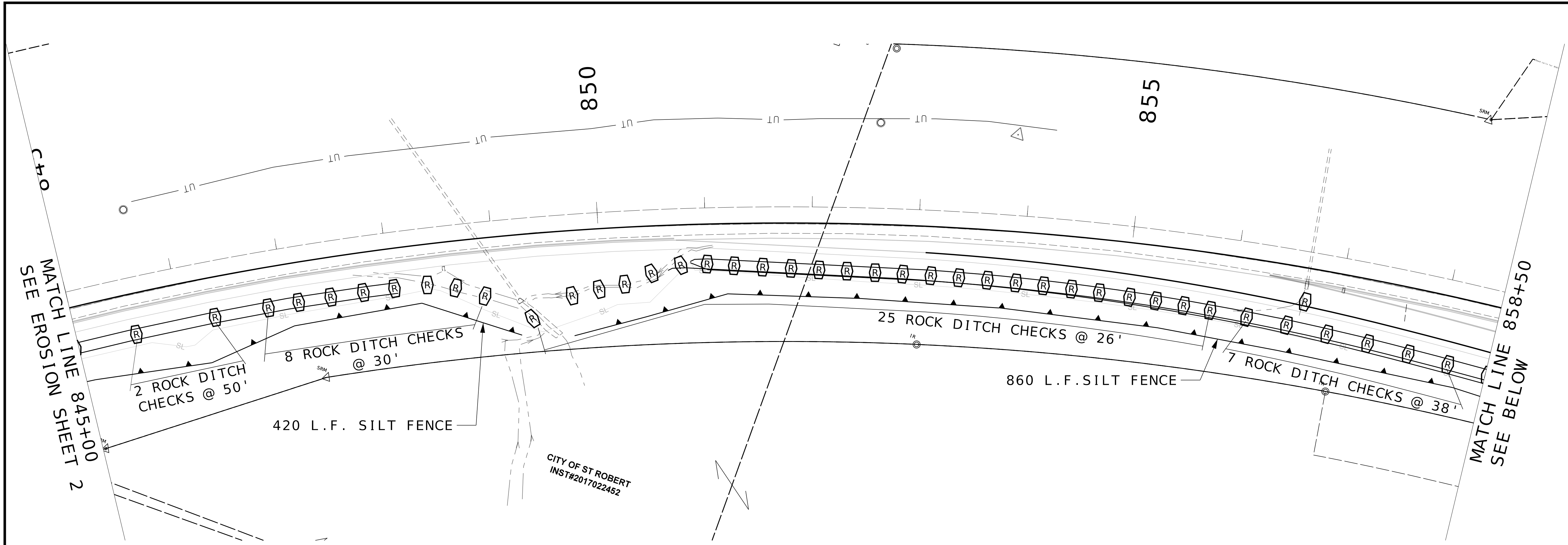
EFK Moen
 Civil Engineering Design
 13523 Barrett Parkway Dr
 Suite 250
 St. Louis, MO 63021
 Phone 314-394-3100
 Fax 314-394-3199
 Missouri Certificate of Authority: 001578



TEMPORARY EROSION CONTROL LEGEND

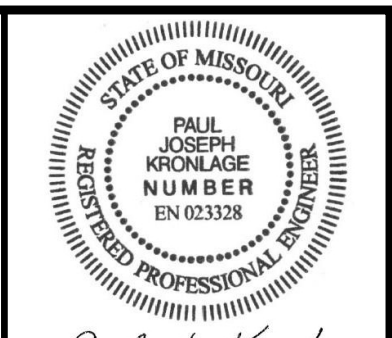
(A) ALTERNATE DITCH CHECK
 (R) ROCK DITCH CHECK
 (S) SEDIMENT TRAP
 ▾ SILT FENCE

EROSION CONTROL SHEET 2 OF 3



TEMPORARY EROSION CONTROL LEGEND

A		ALTERNATE DITCH CHECK
R		ROCK DITCH CHECK
S		SEDIMENT TRAP
▲		SILT FENCE



Paul J. Kronlage
 08/10/2024 9:28:40 AM
 Paul J. Kronlage - Civil
 MO PE - 023328

DATE PREPARED 8/9/2024	
ROUTE I - 44	STATE MO
DISTRICT CD	SHEET NO. 49
COUNTY PULASKI	
JOB NO. JCD0111	
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)

EFK Moen

Civil Engineering Design

13523 Barrett Parkway Dr
Suite 250
St. Louis, MO 63021
Phone 314-394-3100
Fax 314-394-3199
Missouri Certificate of Authority: 001578

EROSION CONTROL
SHEET 3 OF 3



Paul J. Kronlage
08/10/2024 9:27:31 AM
Paul J. Kronlage - Civil
MO PE - 023328

DATE PREPARED
8/9/2024

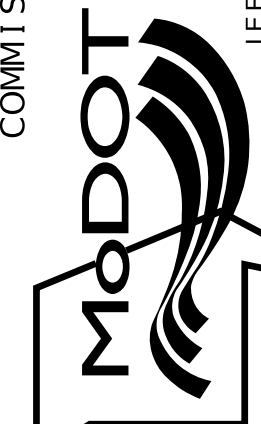
ROUTE
I-44 MO
DISTRICT SHEET NO.
CD 50

COUNTY
PULASKI
JOB NO.
JCD0111
CONTRACT ID.

PROJECT NO.

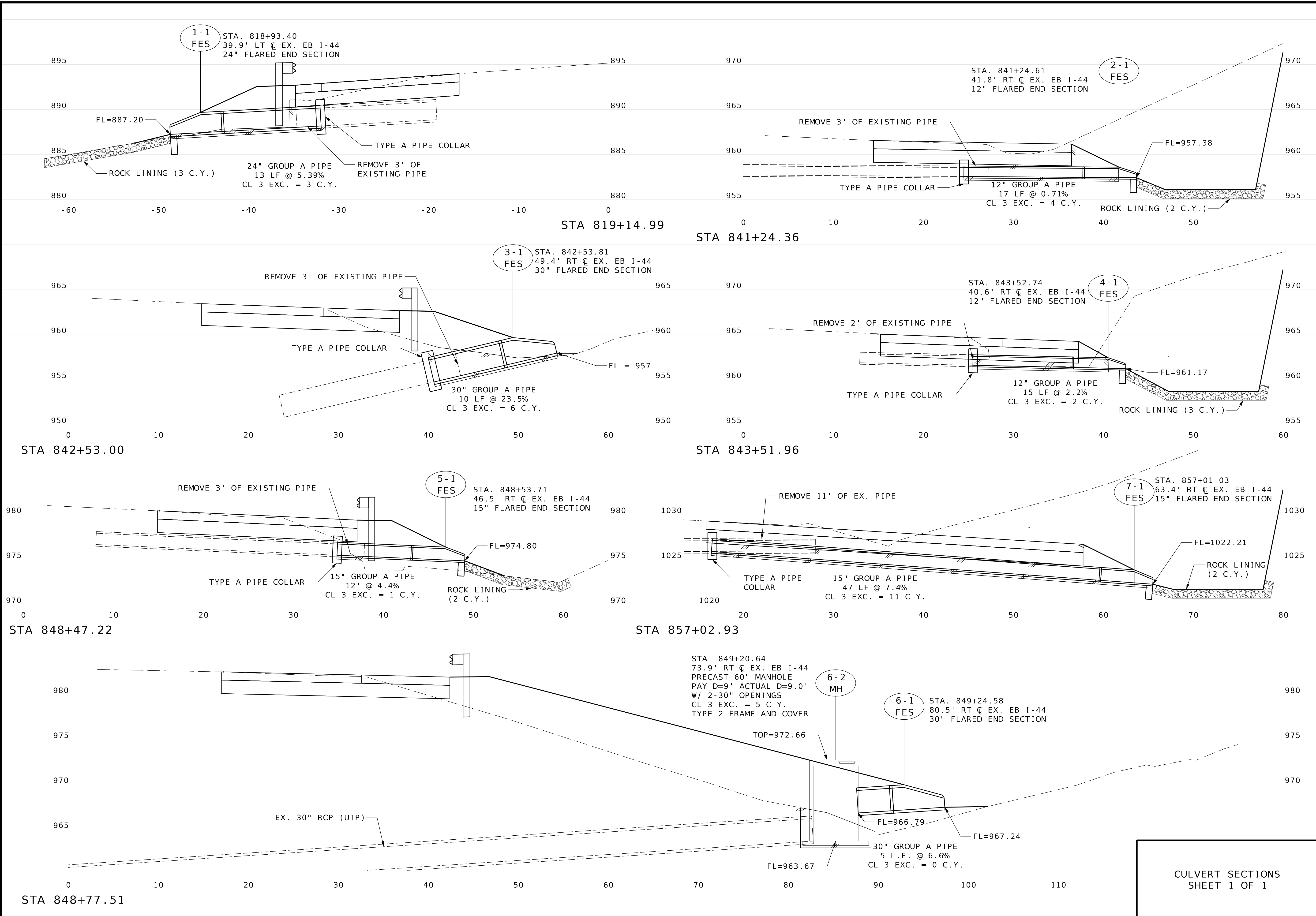
BRIDGE NO.

DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION
COMMISSION


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

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



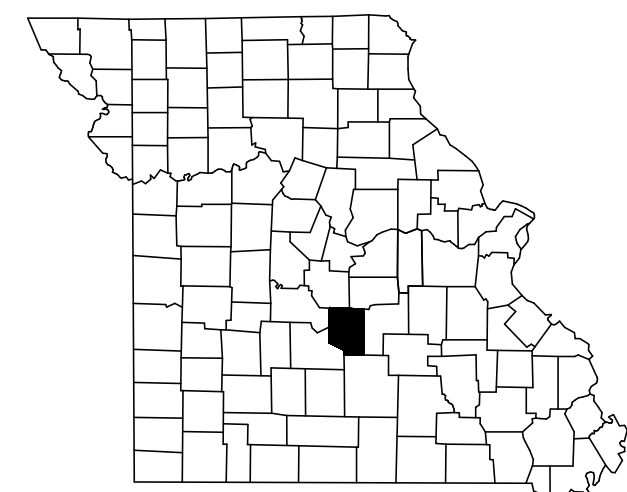
CULVERT SECTIONS
SHEET 1 OF 1

DESIGN DESIGNATION

A.A.D.T. - 2024 = 19,205
 A.A.D.T. - 2044 = 21,145
 T = 29.95%
 V = 70 M.P.H.
 D = 50.7%

FUNCTIONAL CLASSIFICATION- INTERSTATE

NO NEW RIGHT OF WAY



KEY MAP
LOCATION OF PULASKI COUNTY

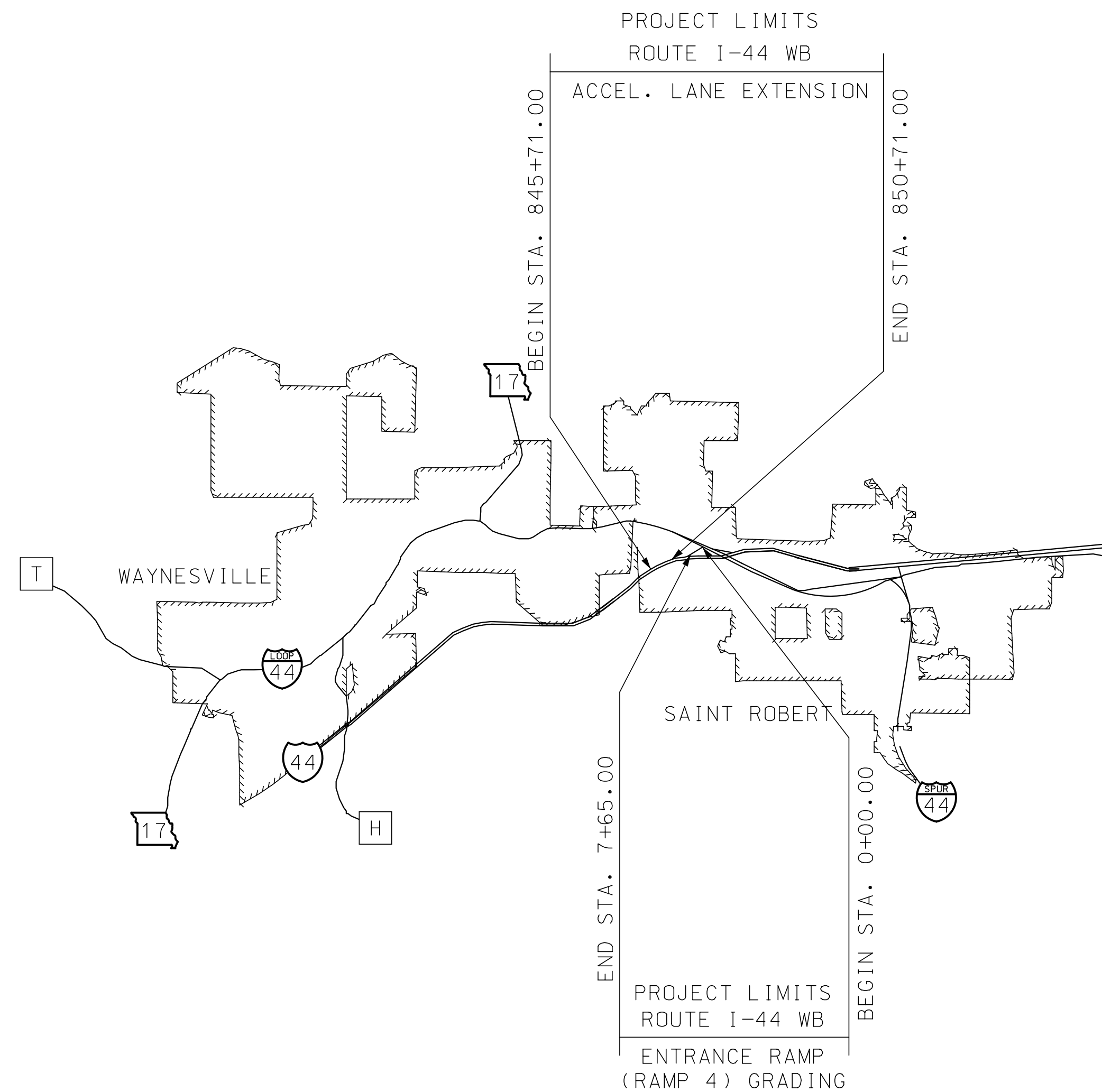
CONVENTIONAL SYMBOLS
(USED IN PLANS)

	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		
FIRE HYDRANT		
WATER VALVE		
WATER METER		
DROP INLET		
DITCH BLOCK		
GROUND MOUNTED SIGN		
LIGHT POLE		
H-FRAME POWER POLE		
TELEPHONE PEDESTAL		
FENCE		
CHAIN LINK		
WOVEN WIRE		
GATE POST		
BENCHMARK		

NOTE: DASHED OR OPEN SYMBOLS INDICATE EXISTING FEATURES

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

PLANS FOR PROPOSED STATE HIGHWAY PULASKI COUNTY

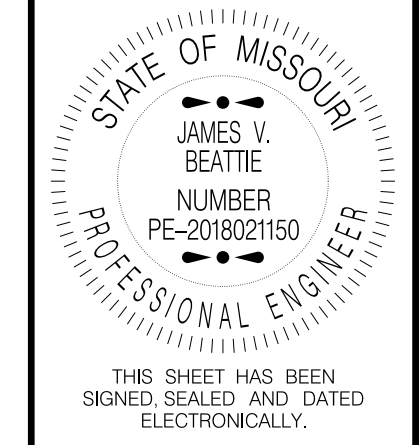


NOT TO SCALE

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) (1 SHEET)	2
QUANTITIES (QU) (3 SHEETS)	3
PLAN-PROFILE (PP)	4-6
REFERENCE POINTS (RP)	7
COORDINATE POINTS (CP)	8
SPECIAL SHEETS (SS)	9
TRAFFIC CONTROL SHEETS (TC)	10-22
EROSION CONTROL SHEET (EC)	23
LIGHTING (LT)	24-25
PAVEMENT MARKING (PM)	26-27
CULVERT SECTION (CS)	28
CROSS SECTIONS (XS)	1-17



DATE PREPARED
9/6/2024
ROUTE 1-44 STATE MO
DISTRICT CD SHEET NO. 1
COUNTY PULASKI
JOB NO. JCD0112
CONTRACT ID.

PROJECT NO.
BRIDGE NO.

DATE	DESCRIPTION

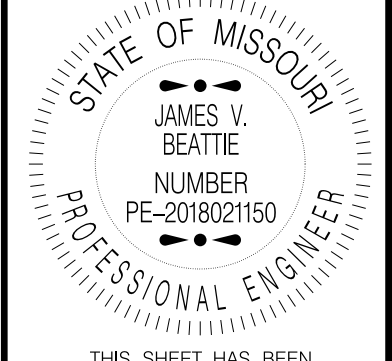
LENGTH OF PROJECT

I-44 WESTBOUND ACCELERATION LANE EXTENSION	
BEGINNING OF PROJECT	STA. 845+71.00
END OF PROJECT	STA. 850+71.00
LENGTH	500.00 FEET
I-44 WESTBOUND ENTRANCE RAMP (RAMP 4)	
BEGINNING OF PROJECT	STA. 0+00.00
END OF PROJECT	STA. 7+65.00
LENGTH	765.00 FEET

TOTAL CORRECTIONS	0.000 FEET
NET LENGTH OF PROJECT	1,265 FEET
STATE LENGTH	0.240 MILES
FOR INFORMATION ONLY ESTIMATED DISTURBED ACRES	0.5 ACRES

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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



DATE PREPARED
9/6/2024

ROUTE 1 - 44	STATE MO
DISTRICT CD	SHEET NO. 2

COUNTY
PULASKI
JOB NO.
JCD0112
CONTRACT ID.

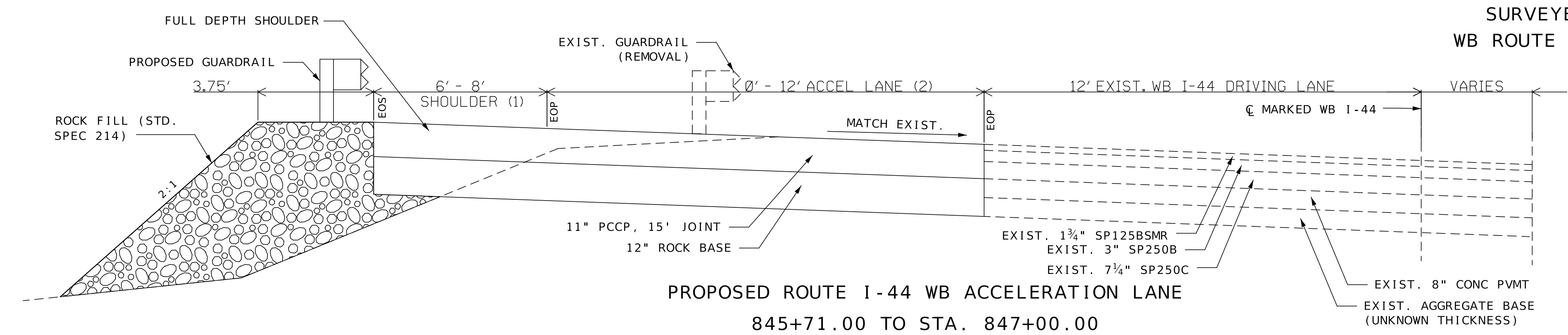
PROJECT NO.
BRIDGE NO.

DESCRIPTION	DATE

MISSOURI HIGHWAYS AND TRANSPORTATION
COMMISSION

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

☺
SURVEYED
WB ROUTE I-44

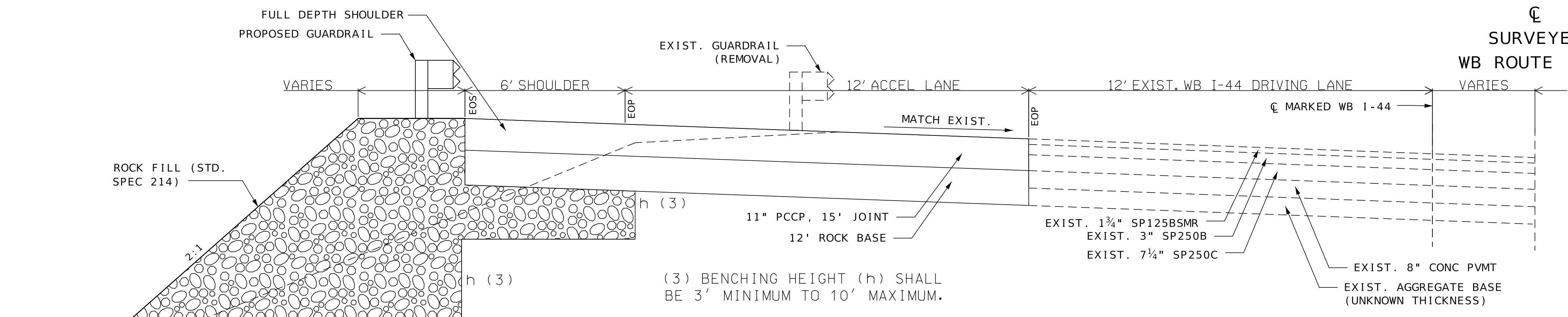


PROPOSED ROUTE I-44 WB ACCELERATION LANE

845+71.00 TO STA. 847+00.00
849+00.00 TO STA. 850+71.00

- (1) SHOULDER TAPERS FROM 8' TO 6' AT STA. 845+71.00 TO STA. 848+71.00
- (2) ACCELERATION LANE TAPERS FROM 0' TO 12' AT STA. 845+71.00 TO STA. 848+71.00

☺
SURVEYED
WB ROUTE I-44

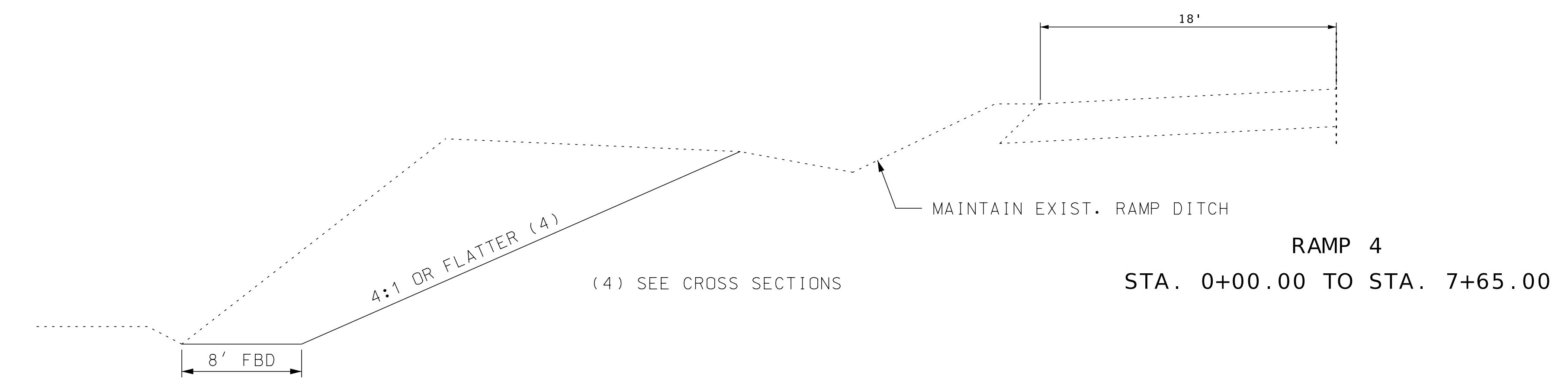


PROPOSED ROUTE I-44 WB ACCELERATION LANE

847+00.00 TO STA. 849+00.00

(3) BENCHING HEIGHT (h) SHALL BE 3' MINIMUM TO 10' MAXIMUM.

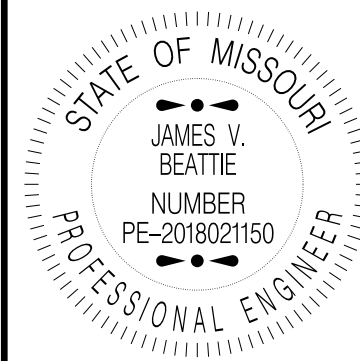
Ⓡ
RAMP 4



RAMP 4
STA. 0+00.00 TO STA. 7+65.00

PAVEMENT AND SHOULDER DESIGN
11" PCCP
15 FT JOINTS, 1 1/2" DOWELS,
13.5 FT WIDE SLAB

NOT TO SCALE



THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED
8/12/2024

ROUTE STATE
I-44 MO

DISTRICT SHEET NO.
CD 3

COUNTY
PULASKI

JOB NO.
JCD0112

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION

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EROSION CONTROL								
STATION FROM	STATION TO	LOCATION	SILT FENCE L.F.	ALT. DITCH CHECK L.F.	ROCK DITCH CHECK L.F.	SEDIMENT TRAP ROCK C.Y.	SEDIMENT REMOVAL C.Y.	REMARKS
845+15.00	851+13.00	I-44 WB - LT	520		336	20.0	30.2	
857+77.00	862+96.00	I-44 WB - LT		192			16.0	3- A.D.C. EAST OF STA. 862+96.00
0+69.00	7+72.00	RAMP 4 - RT			277.0		31.0	
		TOTAL =	520.0	192.0	613.0	20.0	77.2	
		USE =	520	192	613	20	77	

GRADING				
CROSS SECTION SHEET NO	STATION FROM	STATION TO	UNCLASS EXC. C.Y.	REMARKS
1 THRU 10	845+72.00	850+72.00	729	
11 THRU 17	0+72.00	7+65.00	34,034.86	
		TOTAL	34,763.86	
		USE	34,764	

PAVEMENT & BASE							
STATION FROM	STATION TO	LOCATION	LENGTH	WIDTH	CONCRETE PAVEMENT (11 in NON- REINFORCED 15 FT JOINTS) S.Y.	PLACING 12" ROCK BASE S.Y.	REMARKS
845+71.00	850+71.00	I-44 WB	500.00	18'-8"	870.19	870.19	
		TOTAL =			870.19	870.19	
		USE			870.0	870.0	

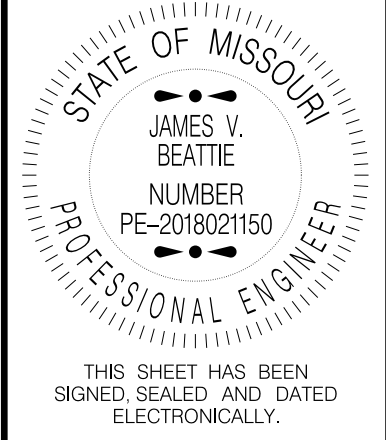
PAVEMENT MARKING - HIGH BUILD PAINT WITH TYPE L BEADS									
BEG. STA.	END STA.	LOCATION	LENGTH	6 IN. DOTTED WHITE L.F.	6 IN. SOLID WHITE L.F.	6 IN. INT. WHITE L.F.	6 IN. SOLID YELLOW L.F.	PAVEMENT MARKING REMOVAL L.F.	REMARKS
845+71.00	848+71.00	I-44 WBL	300.0		600.0	75.0			
848+71.00	850+71.00	I-44 WBL	200.0	50.0	400.0	50.0			
850+71.00	855+51.00	I-44 WBL	480.0	120.0	480.0	120.0		80.0	REMOVE 6 IN. SOLID WHITE
855+51.00	869+81.00	I-44 WBL	1430.0		1430.0	357.5	1430.0		
		TOTAL		170.0	2910.0	602.5	1430.0		
		USE			3683		1430	80	

MOBILIZATION
1 LUMP SUM

CONTRACTOR FURNISHED
SURVEYING AND STAKING
1 LUMP SUM

REMOVAL OF IMPROVEMENTS				
STA. FROM	STA. TO	LOCATION	DESCRIPTION	REMARKS
847+53.97		I-44 WB LT	30" RCP	REMOVE 10' OF 30" RCP
847+53.97		I-44 WB LT	C-230 CONCRETE HEADWALL	REMOVE C-230 CONCRETE HEADWALL
821+08.66	850+44.66	I-44 WB LT	2932' GUARDRAIL	INCLUDES END TERMINAL & GUARDRAIL
845+71.00	850+71.00	I-44 WB LT	484 SQYD CONCRETE REMOVAL	REMOVE CONCRETE LANE AND SHOULDER STARTING AT TAPER
850.71.00		I-44 WB LT	FULL DEPTH SAW CUT	18' SAW CUT AT TAPER
APROX. 848+97.54		I-44 WB LT	POLE FOUNDATION	REMOVE POLE FOUNDATION
APROX. 850+51.53		I-44 WB LT	POLE FOUNDATION	REMOVE POLE FOUNDATION
863+83.83		I-44 WB LT	48' CONCRETE DITCH	REMOVE APPROX. 48' OF CONCRETE DITCH
TOTAL = 1 LUMP SUM				





PIPE CULVERT													
STR. NO.	STATION		LOCATION	SKEW (deg)	FILL HT. (ft)	PIPE		OUTLET HEADWALL		OUTLET DITCH		CLASS 3 EXC. (cy)	COMMENT
	FROM	TO				GROUP B 30" (ft)	TYPE A COLLAR (ea)	CLASS B CONCRETE (cy)	REINF. STEEL (lbs)	TYPE II ROCK BL. (cy)	CLASS A EXC. (cy)		
N/A	847+53.97		I-44 WB C.L.	27.73 RA	4.8	54	1	13.2	1170	19	54	79	EXT. LEFT, REM. EXIST. HW AND PIPE END; (SEE REMOVAL OF IMPROV.) 1-30^, 2-22.5^ ELBOWS
					TOTAL	54	1	13.2	1170	19	54	79	
					USE	54	1	13.2	1170	19	54	79	

SEPERATION GEOTEXTILE					
STATION FROM	STATION TO	LOCATION	LENGTH FT	PERMANENT EROSION CONTROL GEOTEXTILE SY	REMARKS
847+00.00	847+50.00	I-44 WB - LT	90.5	502.8	
847+50.00	848+00.00	I-44 WB - LT	117.5	652.8	
848+00.00	848+50.00	I-44 WB - LT	130.4	724.4	
848+50.00	848+62.00	I-44 WB - LT	115.7	642.8	
848+62.00	848+71.00	I-44 WB - LT	106.1	589.4	
848+71.00	848+81.00	I-44 WB - LT	103.4	574.4	
848+81.00	849+00.00	I-44 WB - LT	92.0	511.1	
849+00.00	849+50.00	I-44 WB - LT	79.5	441.7	
849+50.00	850+00.00	I-44 WB - LT	45.9	255.0	
				TOTAL	4,894.4
				USE	4,894

SEEDING & MULCHING							
STATION FROM	STATION TO	LOCATION	TEMPORARY SEEDING ACRE	SEEDING COOL SEASON GRASSES ACRE	SEEDING WARM SEASON GRASSES ACRE	MULCHING ACRE	REMARKS
0+71.50	7+65.00	I-44 WB LT	0.23	2.33		2.33	
845+71.00	850+71.00	I-44 WB LT	0.05	0.26	0.22	0.48	
			TOTAL =	0.28	2.59	0.22	2.81
			USE	0.3	2.6	0.2	2.8
TEMPORARY SEEDING ESTIMATED AT 10%							

ROCK FILL					
STATION TO	STATION FROM	LOCATION	LENGTH FT	PLACING ROCK FILL CY	REMARKS
845+72.00	850+72.00	I-44 WB - LT	500.0	3,559.0	
0+72.00	7+65.00	I-44 WB - LT	707.0	0.1	
				TOTAL	3,559.1
				USE	3,559

CLEARING & GRUBBING					
STATION FROM	STATION TO	LOCATION	LENGTH FT	CLEARING & GRUBBING ACRE	REMARKS
847+00.00	849+50.00	I-44 WB - LT	250	0.5	CLEAR AND REMOVE BRUSH/ TREES WITHIN EX. R/W
				TOTAL	0.5
				USE	1

MGS GUARDRAIL								
SPECIAL SHEET NO	STATION FROM	STATION TO	LOCATION	MGS GUARDRAIL LF	MGS HEIGHT AND BLOCK TRANSITION EACH	MGS END ANCHOR EACH	SHAPING SLOPES CLASS III MOD 100 FT	REMARKS
1	821+05.50	853+20.50	I-44 WB - LT	2925.00	1	1		
1	821+05.50	845+71.00	I-44 WB - LT				24.7	
1	850+71.00	853+20.50	I-44 WB - LT				2.5	
				TOTAL =	2925.00	1	24.7	
				USE	2925	1	25	

NOTE: THE ESTIMATED QUANTITY OF MATERIAL FOR THE SHAPING SLOPES CLASS III IS 3,025 CUBIC YARDS

DATE	DESCRIPTION

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



DATE PREPARED: 08/10/2024 7:50:42 AM
Paul J. Kronlage - Civil
MO PE - 023328

DATE PREPARED: 8/9/2024

ROUTE: I-44
STATE: MO
DISTRICT: CD
SHEET NO.: 3

COUNTY: PULASKI

JOB NO.: JCD0112

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

Table with 8 columns: SIGN, SIZE IN., AREA SQ.FT., QTY EACH, TOTAL AREA SQ.FT., QTY RELOC EACH, TOTAL RELOC SQ.FT., SIGN NUM. Description: WARNING SIGNS

Table with 8 columns: SIGN, SIZE IN., AREA SQ.FT., QTY EACH, TOTAL AREA SQ.FT., QTY RELOC EACH, TOTAL RELOC SQ.FT., SIGN NUM. Description: GUIDE SIGNS, REGULATORY SIGNS, MISCELLANEOUS SIGNS

Table with 5 columns: ITEM NUMBER, TOTAL QTY, DESCRIPTION. Includes items like IMPACT ATTENUATOR 40 MPH, TRUCK MOUNTED ATTENUATOR, ADVANCED WARNING RAIL SYSTEM, etc.

TEMPORARY TRAFFIC CONTROL 1 LUMP SUM

* NO DIRECT PAY WILL BE MADE FOR RELOCATION OF CONSTRUCTION SIGNING OR DEVICES.

** NOT INCLUDED IN LUMP SUM TEMPORARY TRAFFIC CONTROL.

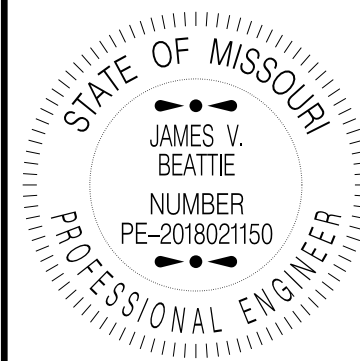
DESCRIPTION, DATE columns

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

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

NOTES:
ALL TRAFFIC CONTROL ITEMS INCLUDED IN PAY ITEM 616-99.01 TEMPORARY TRAFFIC CONTROL. LUMP SUM. UNLESS NOTED OTHERWISE IN THE PLANS. THESE QUANTITIES ARE ONLY AN ESTIMATE AND ARE SUBJECT TO CHANGE BASED ON FIELD CONDITIONS.
SIGN QUANTITIES HAVE BEEN ESTIMATED. TEMPORARY TRAFFIC CONTROL SHALL FOLLOW AT A MINIMUM MUTCD STANDARDS. LATEST EDITION.
ALL WARNING SIGNS SHALL HAVE FLORESCENT SHEETING.

SUMMARY OF QUANTITIES SHEET 3 OF 3



THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED
8/12/2024

ROUTE STATE
I-44 MO

DISTRICT SHEET NO.
CD 4

COUNTY
PULASKI

JOB NO.
JCD0112

CONTRACT ID.

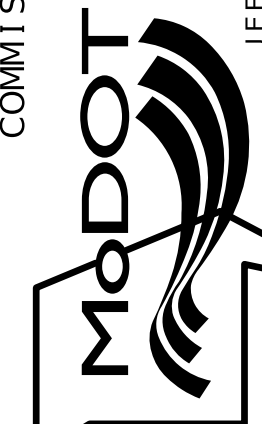
PROJECT NO.

BRIDGE NO.

DATE	DESCRIPTION

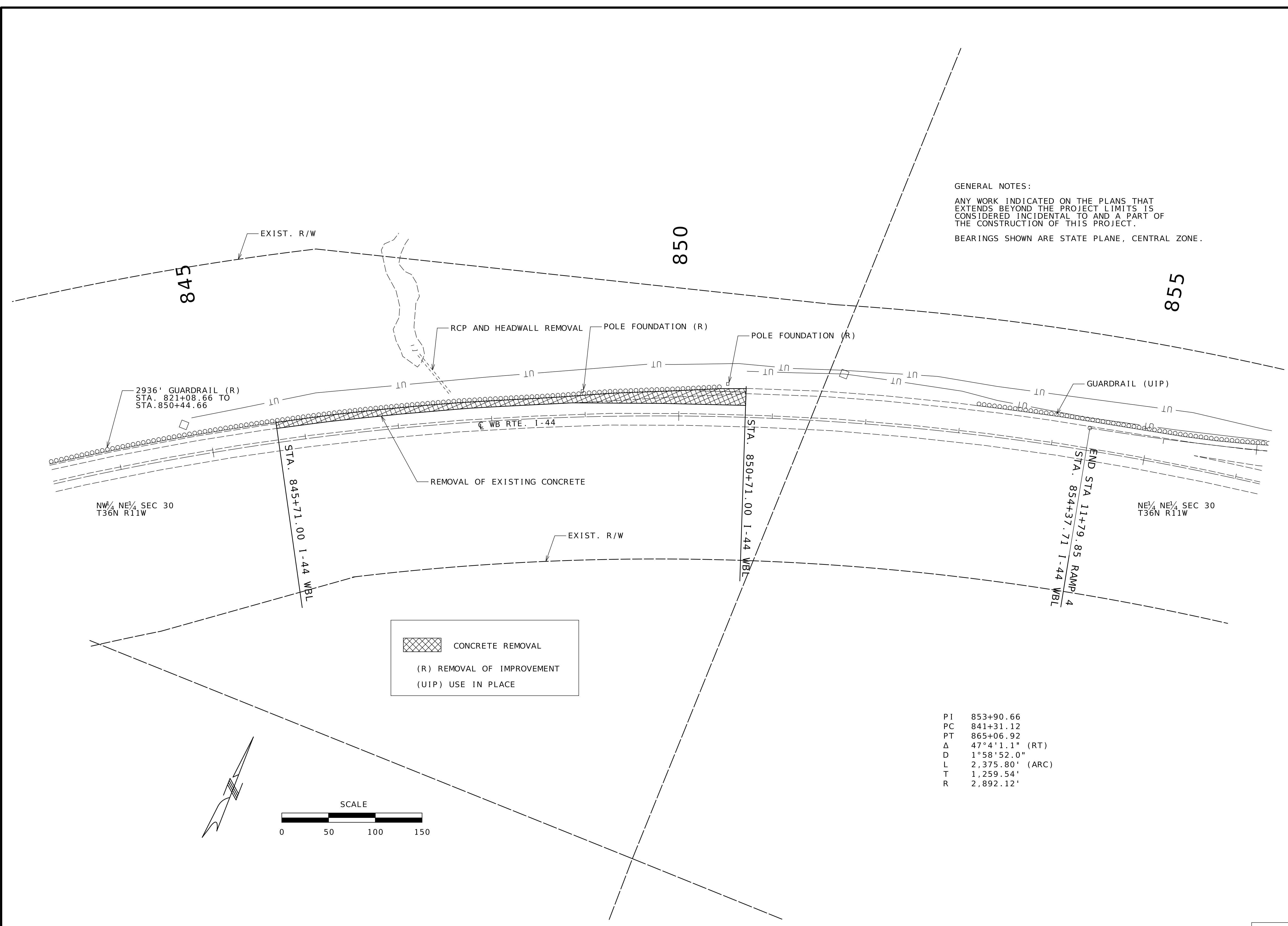
DATE

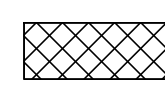
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION



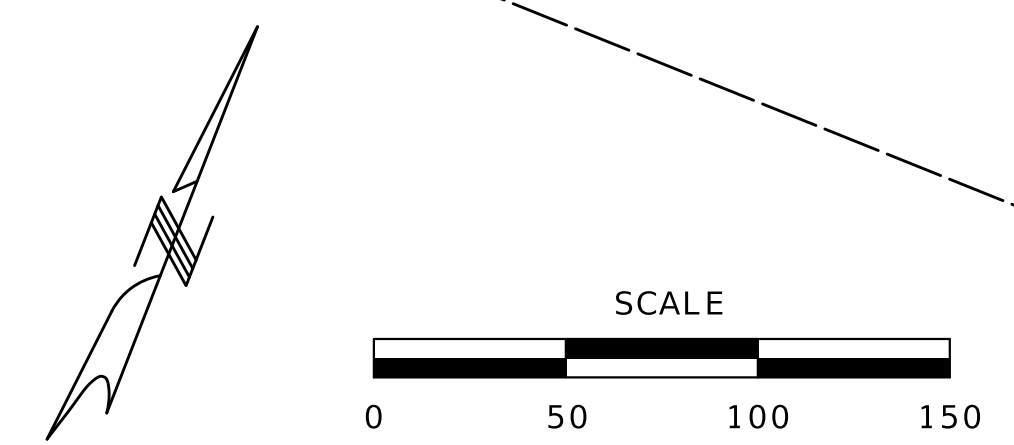
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

GENERAL NOTES:
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.
BEARINGS SHOWN ARE STATE PLANE, CENTRAL ZONE.



 CONCRETE REMOVAL
 (R) REMOVAL OF IMPROVEMENT
 (UIP) USE IN PLACE

- PI 853+90.66
- PC 841+31.12
- PT 865+06.92
- Δ 47°4'1.1" (RT)
- D 1°58'52.0"
- L 2,375.80' (ARC)
- T 1,259.54'
- R 2,892.12'

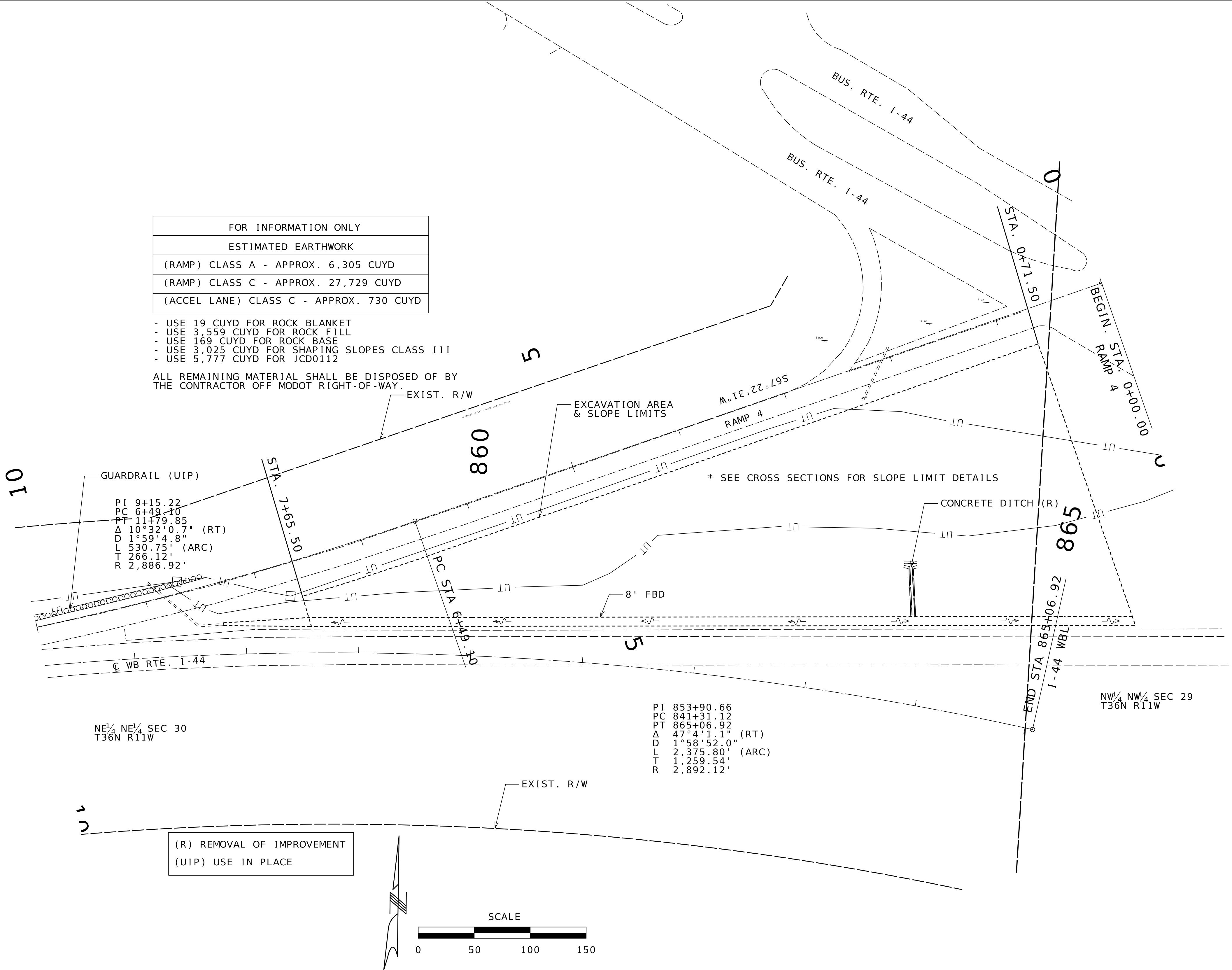


PLAN SHEET
SHEET 1 OF 3

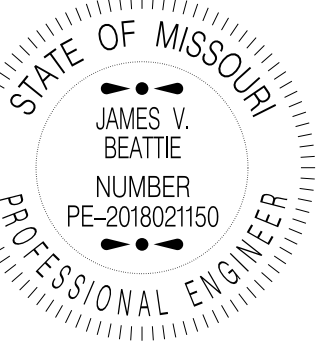
FOR INFORMATION ONLY
ESTIMATED EARTHWORK
(RAMP) CLASS A - APPROX. 6,305 CUYD
(RAMP) CLASS C - APPROX. 27,729 CUYD
(ACCEL LANE) CLASS C - APPROX. 730 CUYD

- USE 19 CUYD FOR ROCK BLANKET
- USE 3,559 CUYD FOR ROCK FILL
- USE 169 CUYD FOR ROCK BASE
- USE 3,025 CUYD FOR SHAPING SLOPES CLASS III
- USE 5,777 CUYD FOR JCD0112

ALL REMAINING MATERIAL SHALL BE DISPOSED OF BY THE CONTRACTOR OFF MODOT RIGHT-OF-WAY.



(R) REMOVAL OF IMPROVEMENT
(UIP) USE IN PLACE



THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED
8/12/2024

ROUTE STATE
1-44 MO

DISTRICT SHEET NO.
CD 5

COUNTY
PULASKI

JOB NO.
JCD0112

CONTRACT ID.

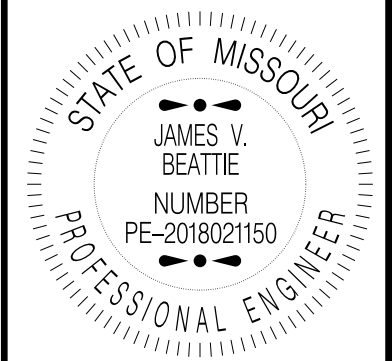
PROJECT NO.

BRIDGE NO.

DESCRIPTION	DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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

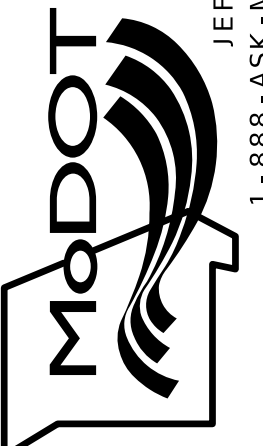


THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED 8/12/2024	
ROUTE I-44	STATE MO
DISTRICT CD	SHEET NO. 6
COUNTY PULASKI	
JOB NO. JCD0112	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

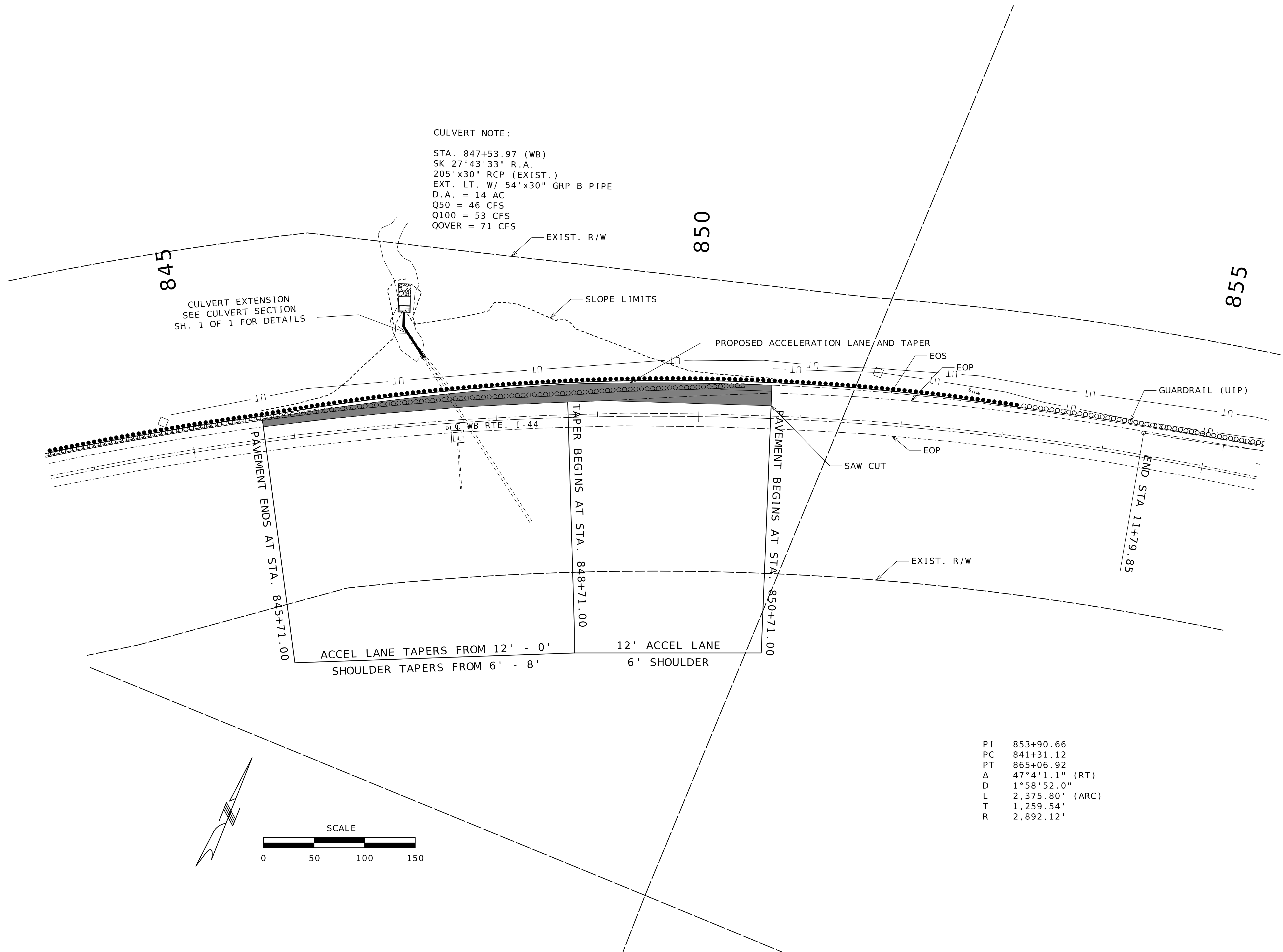
DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

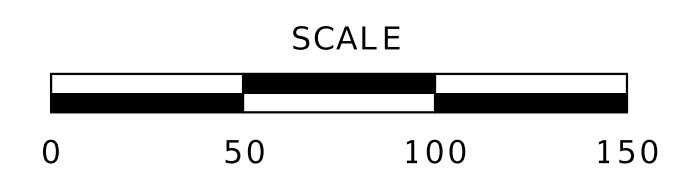


105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

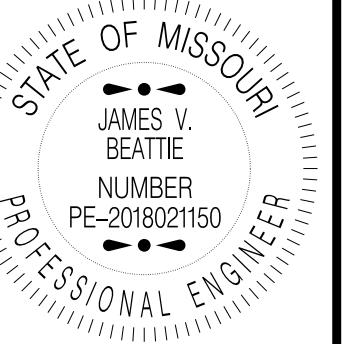
CULVERT NOTE:
 STA. 847+53.97 (WB)
 SK 27°43'33" R.A.
 205"x30" RCP (EXIST.)
 EXT. LT. W/ 54"x30" GRP B PIPE
 D.A. = 14 AC
 Q50 = 46 CFS
 Q100 = 53 CFS
 QOVER = 71 CFS



CULVERT EXTENSION
SEE CULVERT SECTION
SH. 1 OF 1 FOR DETAILS



PI 853+90.66
 PC 841+31.12
 PT 865+06.92
 Δ 47°4'1.1" (RT)
 D 1°58'52.0"
 L 2,375.80' (ARC)
 T 1,259.54'
 R 2,892.12'



THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED
8/12/2024

ROUTE I-44	STATE MO
DISTRICT CD	SHEET NO. 7

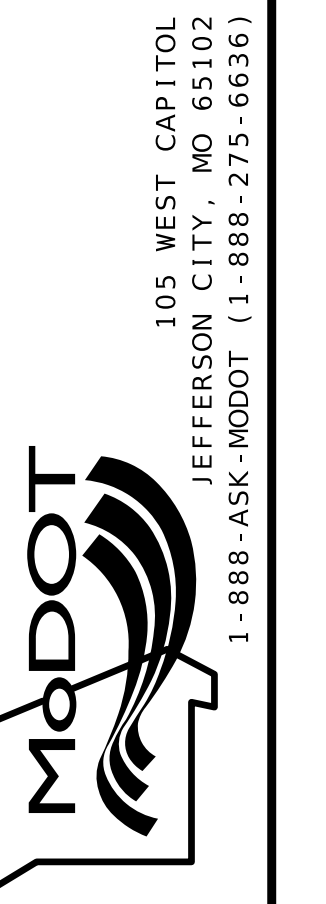
COUNTY
PULASKI
JOB NO.
JCD0112
CONTRACT ID.

PROJECT NO.

BRIDGE NO.

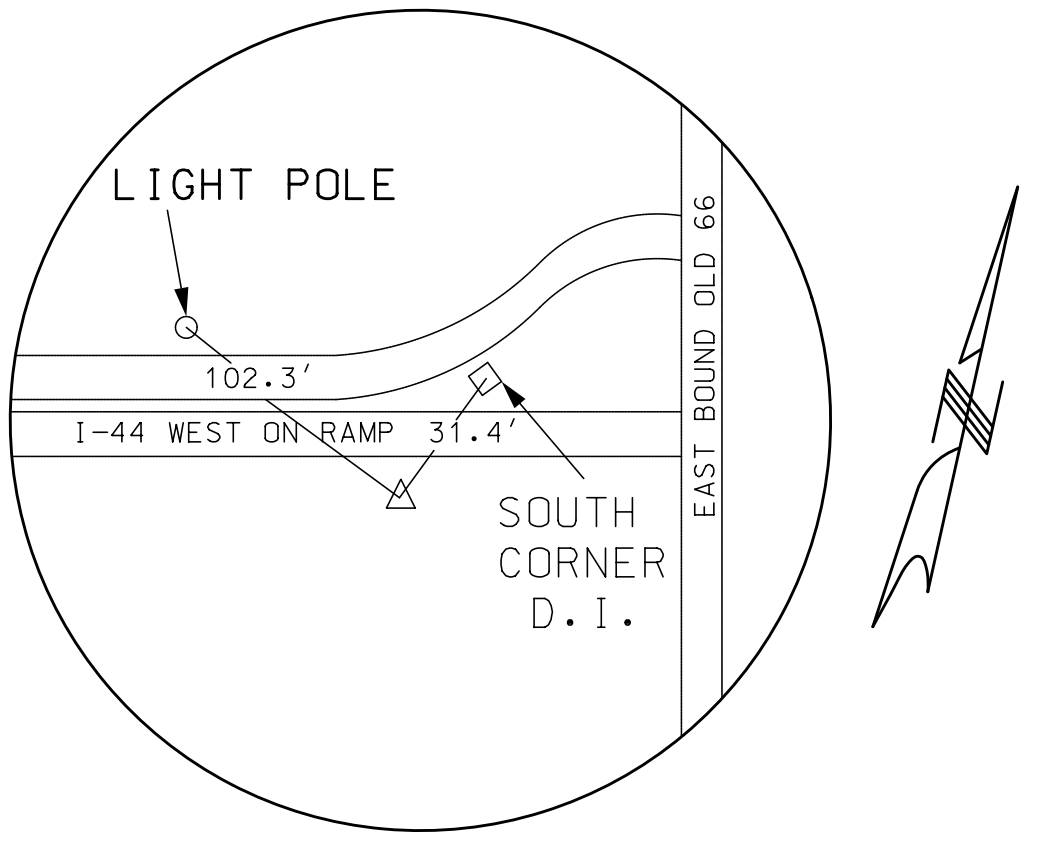
DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION



W.P. 801

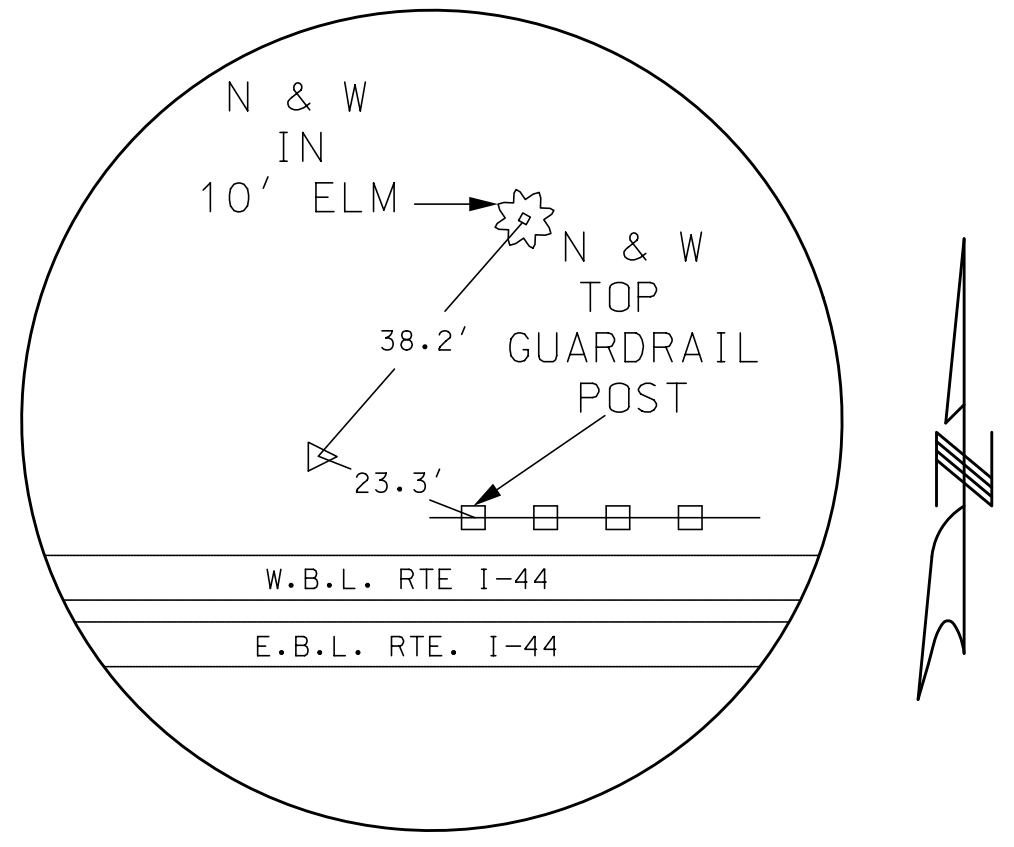
REBAR W/ CAP BURIED 0.2',
156' W/OF OLD RTE. 66 & ON RAMP
TO I-44 WEST



X = 1735864.7715
Y = 725443.3651
Z = 1077.39

W.P. 802

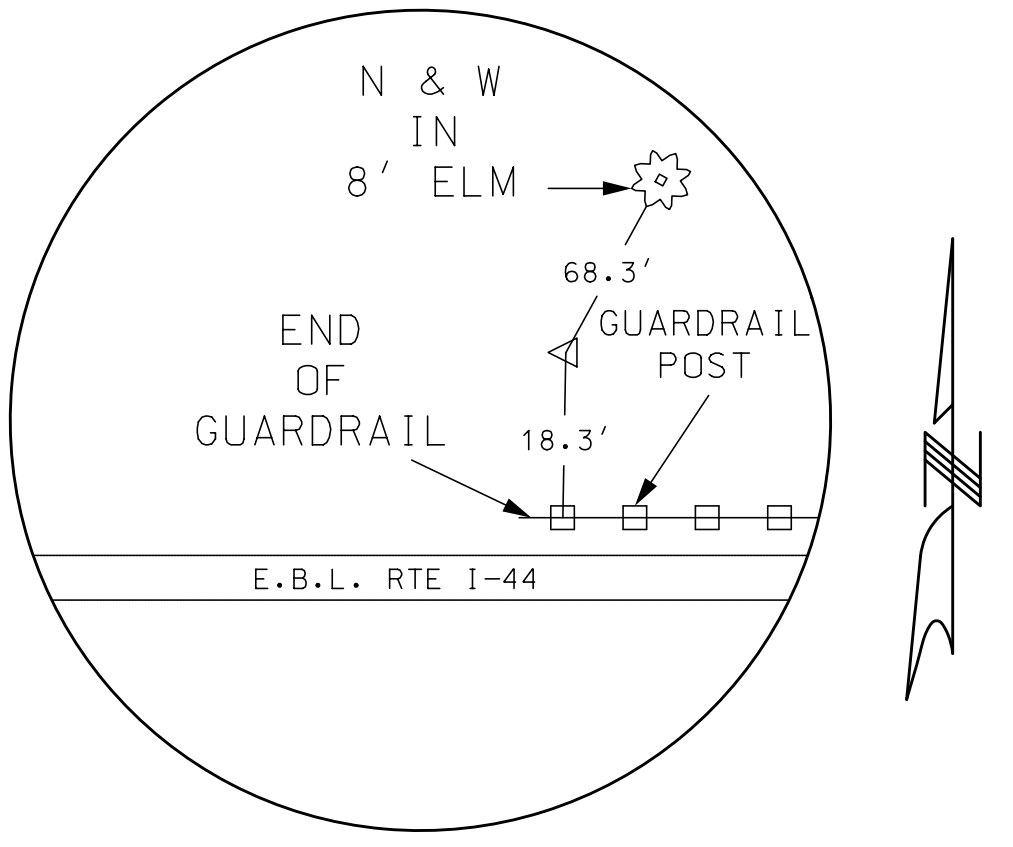
REBAR W/ CAP BURIED 0.2'.
20' N/OF N.E.P. W.B.L.
RTE. I-44, 1.700' W/OF RTE. 66
OVER PASS



X = 1734796.6779
Y = 725125.1237
Z = 1014.82

W.P. 803

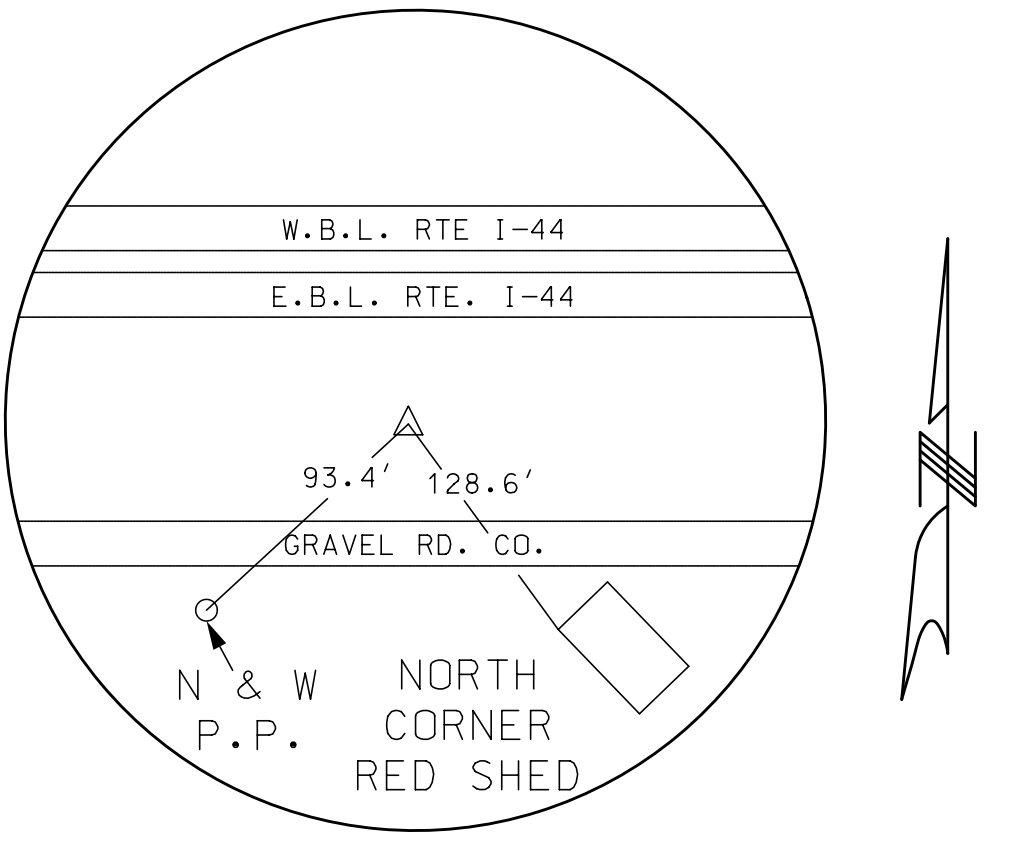
REBAR W/ CAP BURIED 0.1'.
23' N/OF N.E.P. E.B.L.
RTE. I-44 0.9 MILES W/OF
OLD RTE. 66 OVERPASS



X = 1732360.7643
Y = 723184.7980
Z = 900.37

W.P. 804

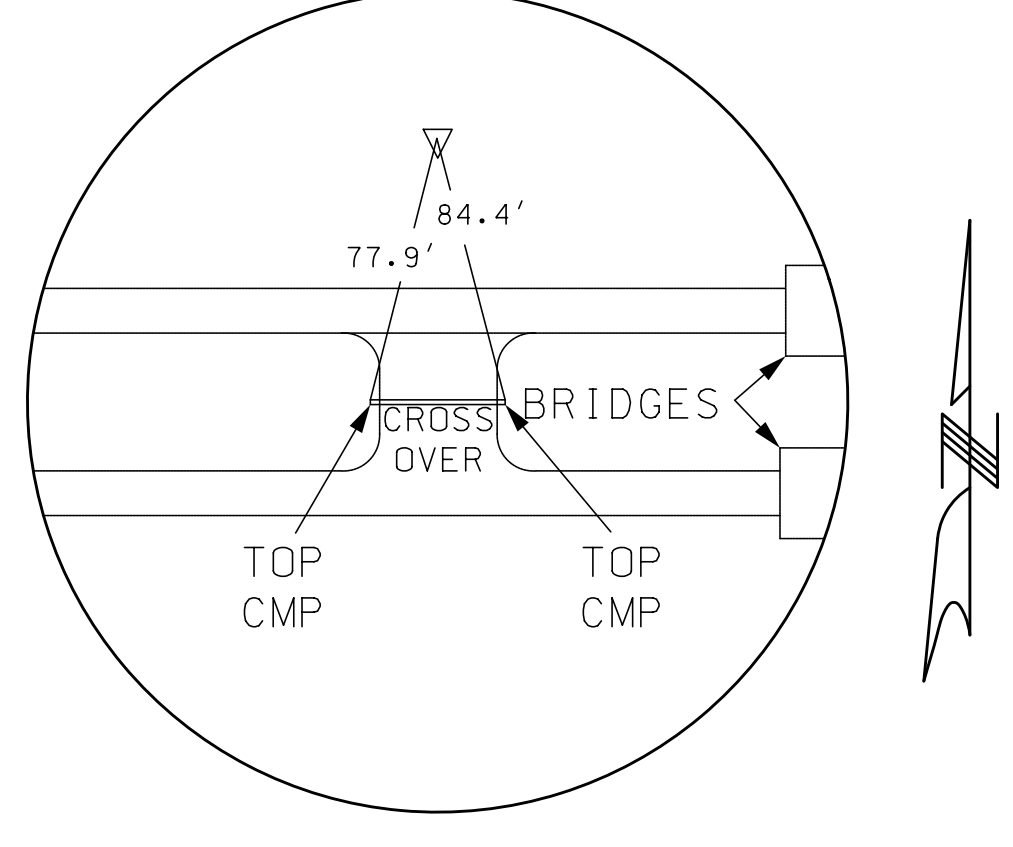
REBAR W/ CAP BURIED 0.2'.
46' S/OF S.E.P. E.B.L.
RTE. I-44, 1.3 MILES W/OF
OLD RTE. 66 OVERPASS



X = 1730303.7850
Y = 722460.1230
Z = 795.19

W.P. 805

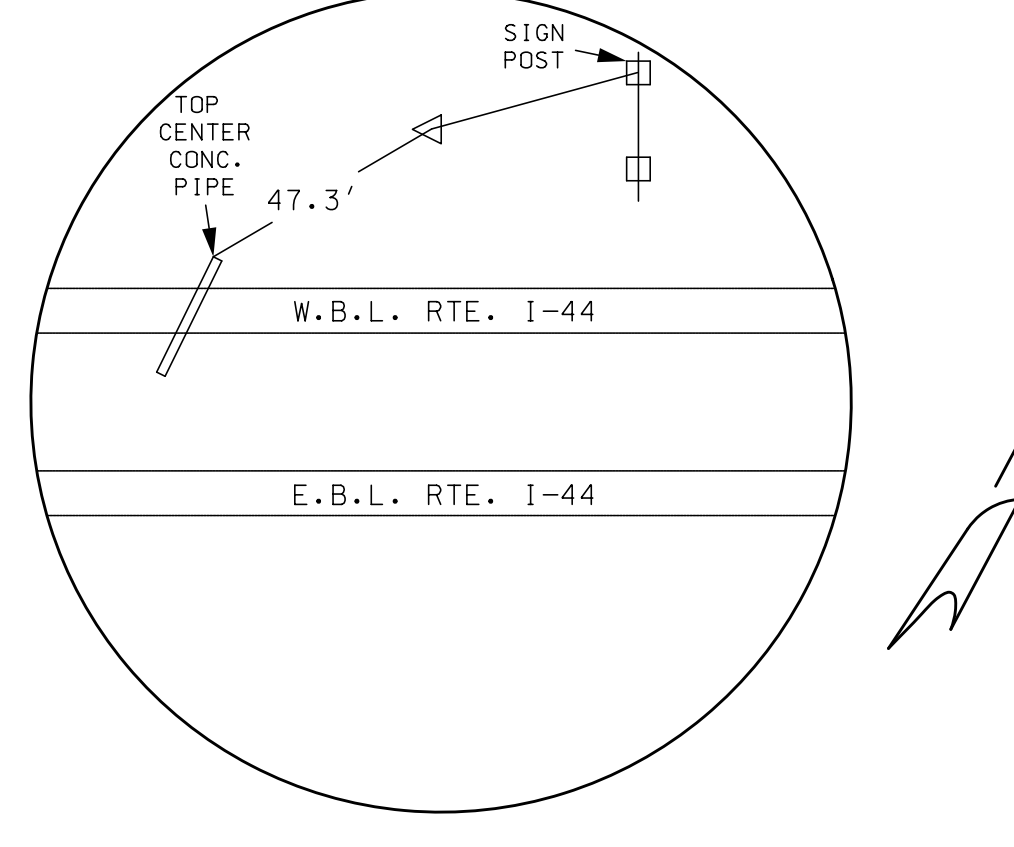
REBAR W/ CAP BURIED 0.2'.
31' N/OF N.E.P. W.B.L.
RTE. I-44, 1.7 MILES W/OF
RTE. OLD 66 OVERPASS



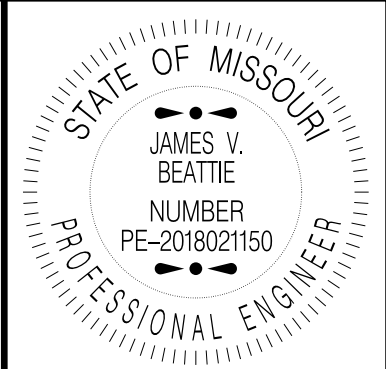
X = 1728131.0543
Y = 722723.0496
Z = 795.46

W.P. 806

REBAR W/ CAP BURIED 0.2'.
38' N/OF N.E.P. W.B.L.
RTE. I-44, 0.95 MILES E/OF
RTE. H



X = 1724802.3579
Y = 721146.7291
Z = 872.95



THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED
8/12/2024
ROUTE
I-44 STATE
MO
DISTRICT SHEET NO.
CD 8
COUNTY
PULASKI
JOB NO.
JCD0112
CONTRACT ID.

PROJECT NO.

BRIDGE NO.

ALL PROJECT COORDINATES HAVE BEEN PROJECTED FROM THE MISSOURI STATE PLANE COORDINATE (SPC) SYSTEM OF 1983 USING AN AVERAGE PROJECT PROJECTION (GRID TO GROUND) FACTOR. TO GET BACK TO STATE PLANE COORDINATES MULTIPLY THE PROJECT COORDINATES BY THE AVERAGE GRID FACTOR AS SHOWN IN THE "REFERENCE CONTROL INFORMATION" PORTION OF THIS TABLE.

PROJECT COORDINATE INFORMATION	
COORDINATE SYSTEM	MODIFIED STATE PLANE
HORIZONTAL DATUM	NAD83
VERTICAL DATUM	NAVD88
GEOID MODEL	G2018U7
ELEVATIONS DETERMINED BY	FRED WILDE
PROJECT PROJECTION FACTOR	1.00010090

REFERENCE CONTROL INFORMATION	
COORDINATE SYSTEM	MODIFIED STATE PLANE
CONTROL STATION	MOSR
DESIGNATION	MODOT ST ROBERT CORS ARP
CORS_ID	MOSR
PID	DL6906
LATITUDE	37 49 14.66192
LONGITUDE	92 09 15.38868
NORTHING (M)	220592.8770
EASTING (M)	530437.6950
ZONE	2402 (MO-CENTRAL)
PROJECT AVERAGE GRID FACTOR	0.99989589

EXAMPLE OF PROJECT COORDINATE TO S.P.C.

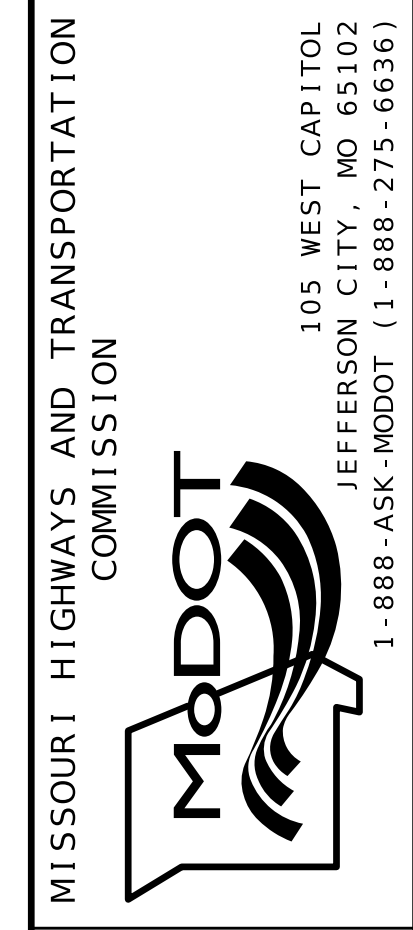
PROJECT NORTHING X AVERAGE GRID FACTOR = STATE PLANE NORTHING
PROJECT EASTING X AVERAGE GRID FACTOR = STATE PLANE EASTING

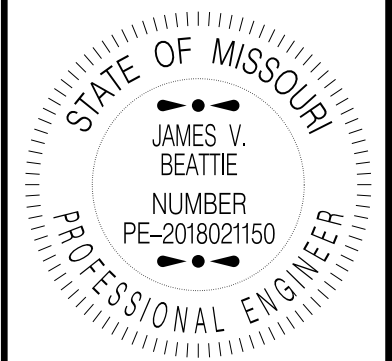
EXAMPLE: CONTROL POINT #801
N 725443.3657 X 0.99989589 = N 725367.8398
E 1735864.7715 X 0.99989589 = E 1735684.0506

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

COORDINATE POINT LISTING								
SHEET NO	STATION	LOCATION	OFFSET (USFT)	MODIFIED STATE PLANE (GROUND)			DESCRIPTION	GPK POINT ID
				NORTHING (US SURVEY FT)	EASTING (US SURVEY FT)	ELEVATION (US SURVEY FT)		
PROJECT CONTROL POINTS								
5	2+02.80	RAMP 4	-23.84	725,443.3657	1,735,864.7715	1,077.39	W.P. 801	
6	852+99.80	WB I-44 CL	-46.92	725,125.1237	1,734,796.6779	1,014.82	W.P. 802	
NA	821+72.56	WB I-44 CL	215.43	723,184.7980	1,732,360.7643	900.37	W.P. 803	
NA	800+59.80	WB I-44 CL	139.30	722,460.1230	1,730,303.7850	795.19	W.P. 804	
NA	778+84.75	WB I-44 CL	-22.90	722,723.0496	1,728,131.0543	795.46	W.P. 805	
NA	740+98.33	WB I-44 CL	-50.33	721,146.7291	1,724,802.3579	872.95	W.P. 806	
NA								
ALIGNMENTS								
RAMP 4	0+00.00	RAMP 4		725,543.3842	1,736,042.7996		START PROJECT	
RAMP 4	6+49.10	RAMP 4		725,293.6796	1,735,443.6516		P.C.	
RAMP 4	11+79.85	RAMP 4		725,135.5597	1,734,937.7900		P.T. - END PROJECT	
WB I-44 CL	724+00.00	WB I-44 CL		720,006.3890	1,723,542.7970		START PROJECT	
WB I-44 CL	752+55.30	WB I-44 CL		721,859.1916	1,725,715.3210		P.C.	
WB I-44 CL	762+63.45	WB I-44 CL		722,412.6043	1,726,554.9355		P.C.C.	
WB I-44 CL	777+26.39	WB I-44 CL		722,707.8564	1,727,971.7662		P.T.	
WB I-44 CL	798+96.17	WB I-44 CL		722,602.6742	1,730,138.9976		P.C.	
WB I-44 CL	798+96.17	WB I-44 CL		722,602.6742	1,730,138.9976		P.C.	
WB I-44 CL	819+34.16	WB I-44 CL		723,207.4053	1,732,040.2419		P.T.	
WB I-44 CL	841+31.13	WB I-44 CL		724,562.0273	1,733,769.8880	964.89	P.C.	
WB I-44 CL	865+06.93	WB I-44 CL		725,141.6142	1,736,005.5412		P.T. - END PROJECT	

DATE	DESCRIPTION





THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED
8/12/2024

ROUTE STATE
I-44 MO

DISTRICT SHEET NO.
CD 9

COUNTY
PULASKI

JOB NO.
JCD0112

CONTRACT ID.

PROJECT NO.

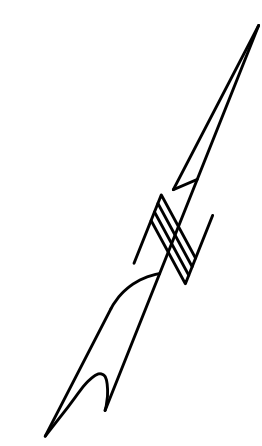
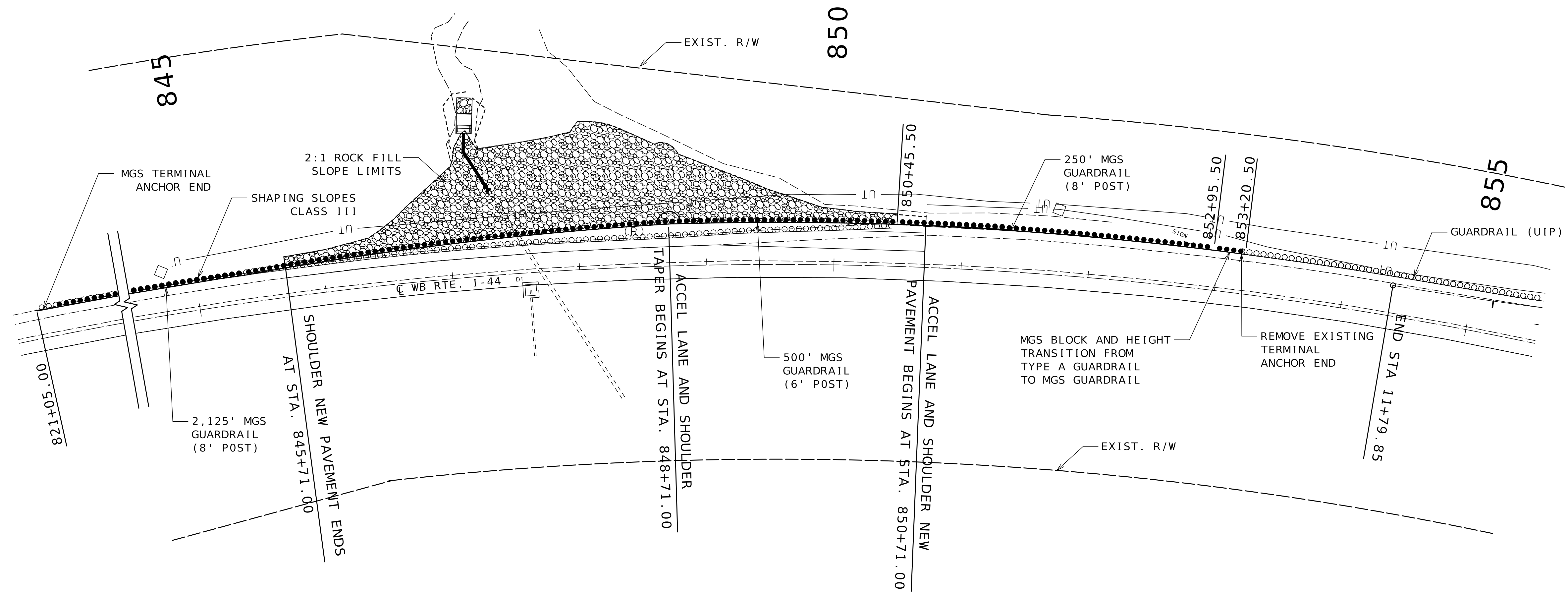
BRIDGE NO.

DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

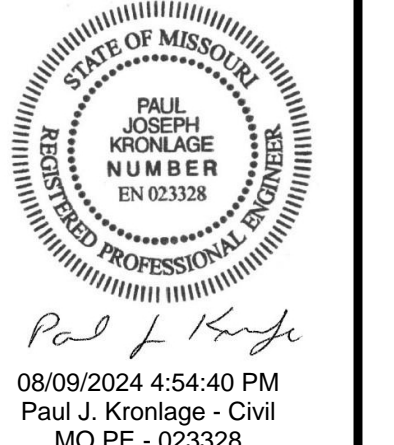
MoDOT

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

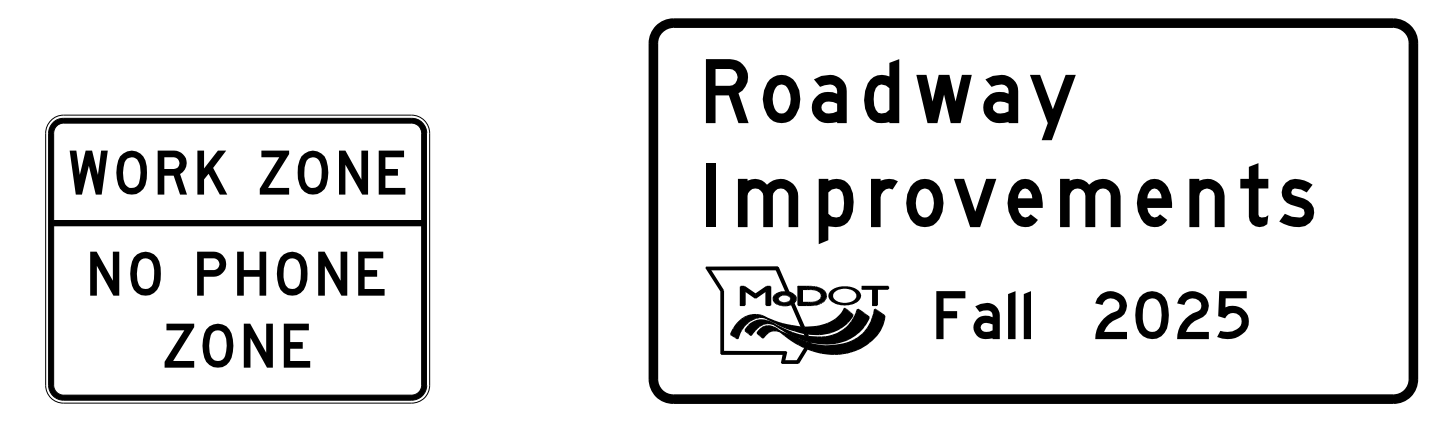


SPECIAL SHEET
GUARDRAIL
SHEET 1 OF 1

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 Paul J. Kronlage - Civil
 MO PE - 023328



CONST-8 (3) 62

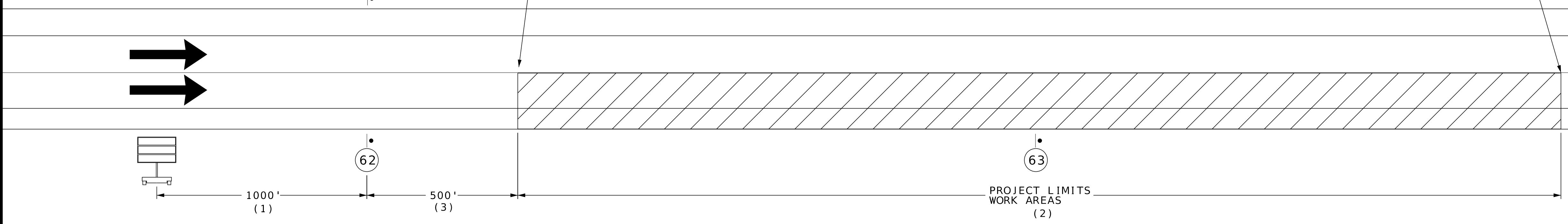
CONST-5-96 (2) 63

WITH "COMPLETED AS PROMISED" STICKER

DATE PREPARED 8/9/2024	
ROUTE I-44	STATE MO
DISTRICT CD	SHEET NO. 10
COUNTY PULASKI	
JOB NO. JCD0112	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

BEGINNING OF PROJECT LIMITS:
 OR INITIAL WORK ZONE SIGN, IF
 LOCATED OUTSIDE OF PROJECT LIMITS.

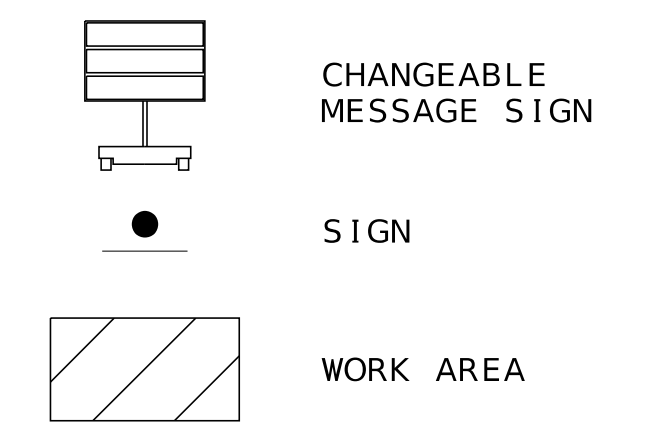
END OF PROJECT LIMITS: END OF WORK ZONE TERMINATION AREA
 IF LOCATED BEYOND END OF PROJECT: OR LAST WORK ZONE SIGN,
 IF LOCATED OUTSIDE PROJECT LIMITS



NOTES:

- THE CONTRACTOR SHALL COVER OR REMOVE ANY EXISTING SIGNING OR PAVEMENT MARKING THAT CONFLICTS WITH THE TEMPORARY TRAFFIC CONTROL SIGNING AND DEVICES.
- (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-5-96 IS PLACED IN A VISIBLE AREA WITHIN THE PROJECT LIMITS PROVIDED ITS PLACEMENT DOES NOT DISRUPT A SEQUENCE OF SIGNS.
- (3) THE "WORK ZONE NO PHONE ZONE" SIGN IS PLACED A MINIMUM OF 500 FEET BEFORE THE ROAD WORK AHEAD SIGN
- (4) NO DIRECT PAY FOR MOUNTING TEMPORARY SIGNS TO EXISTING BARRIER.

LEGEND



BEGIN-END OF PROJECT SIGNING
 NOT TO SCALE

TRAFFIC CONTROL
 SHEET 1 OF 13

DESCRIPTION	DATE

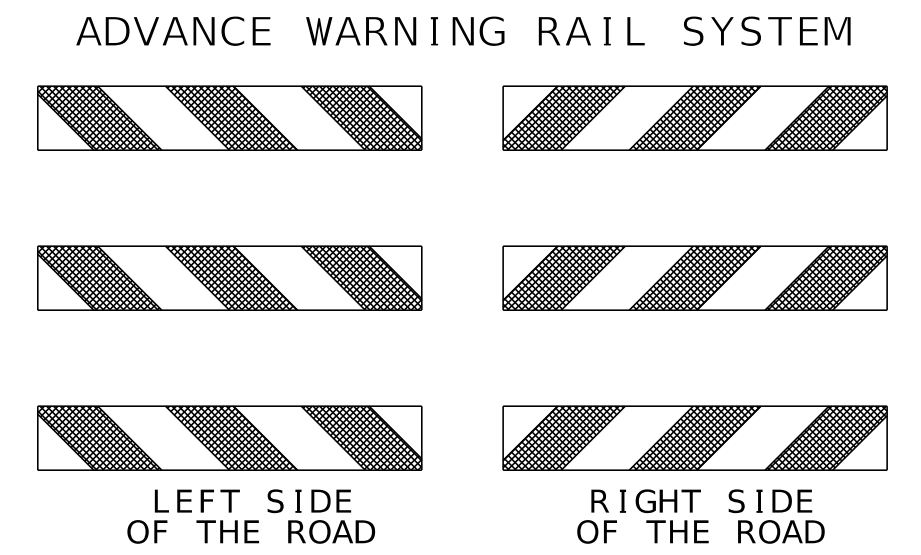
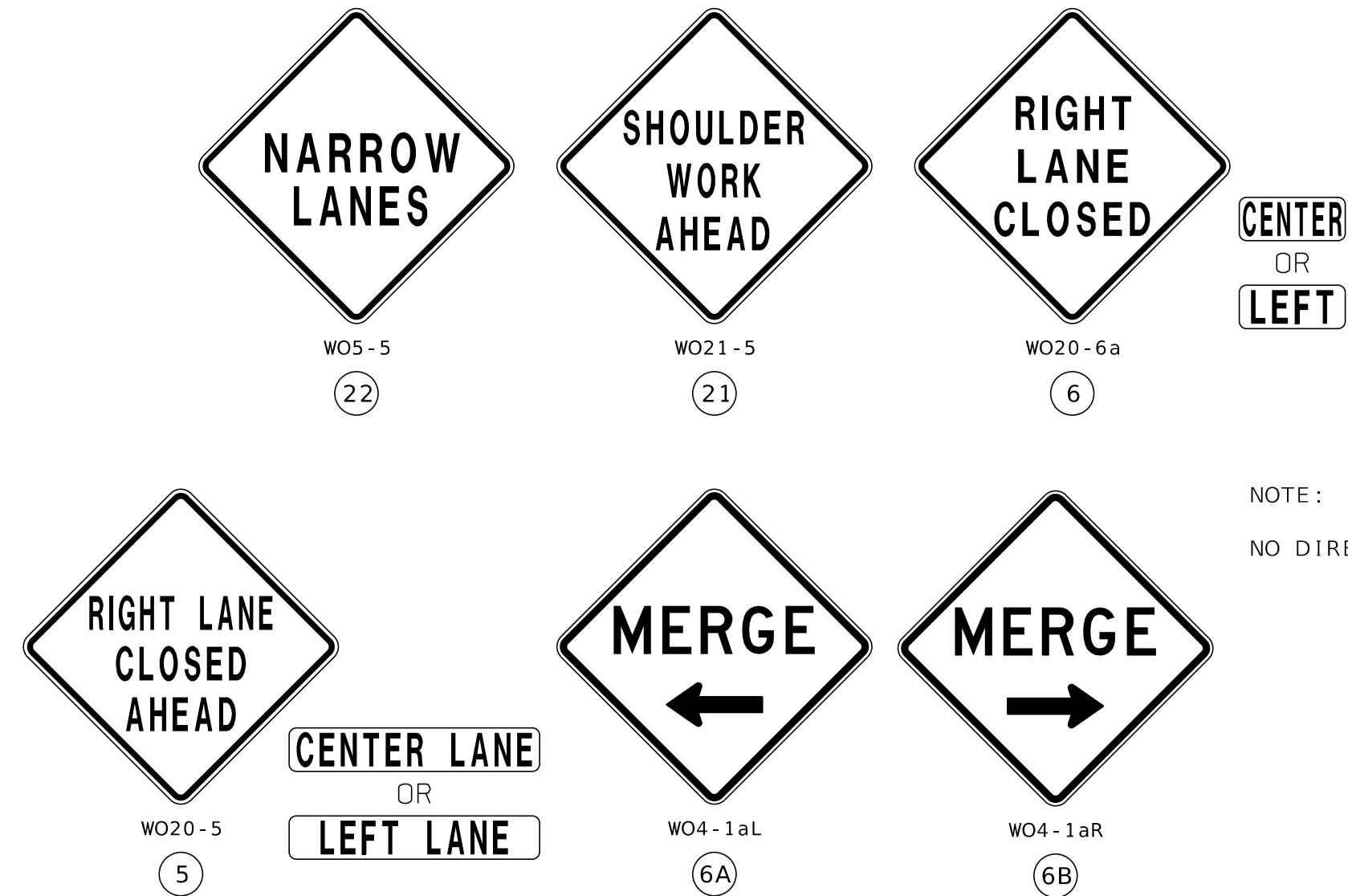
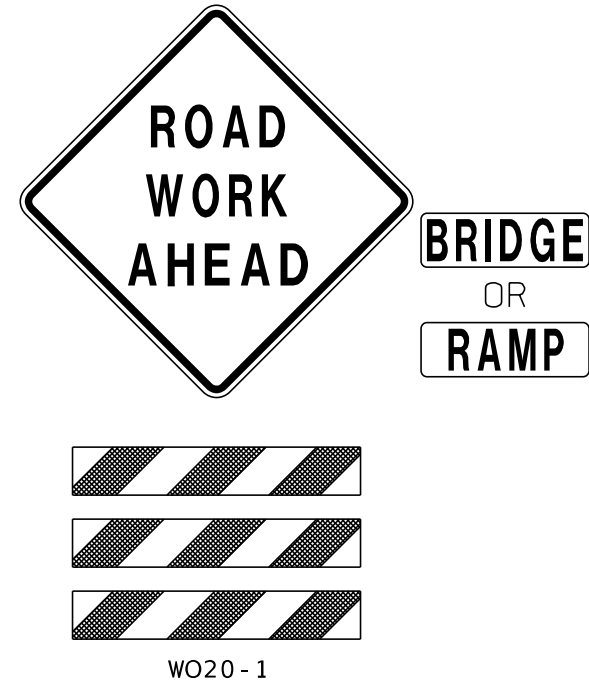
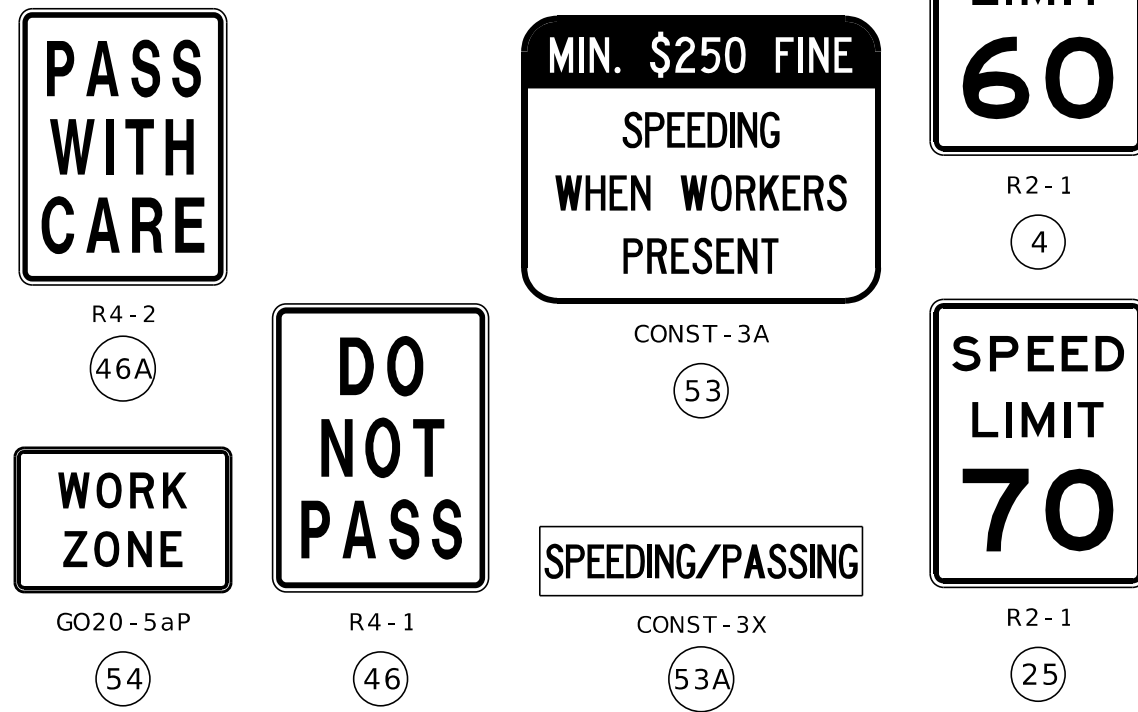
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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

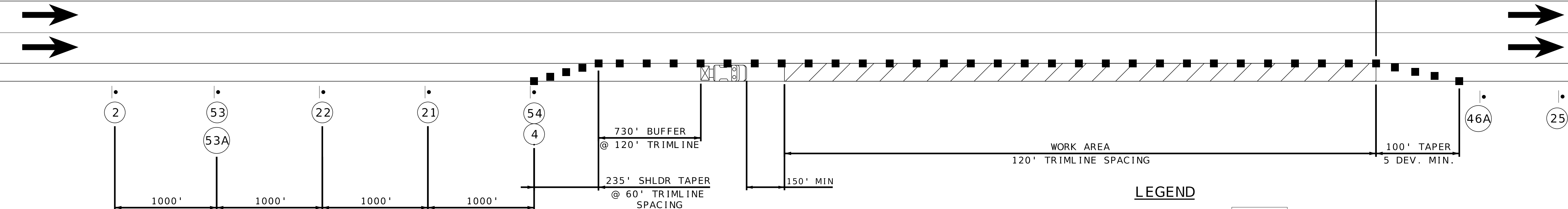
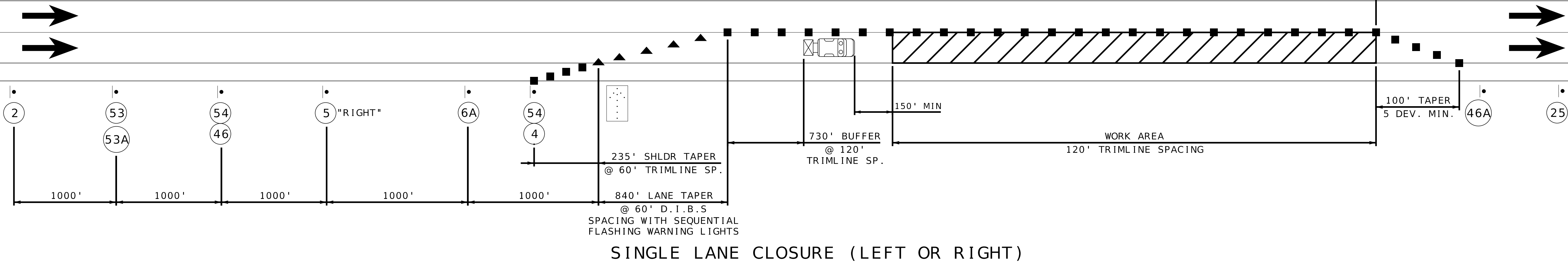
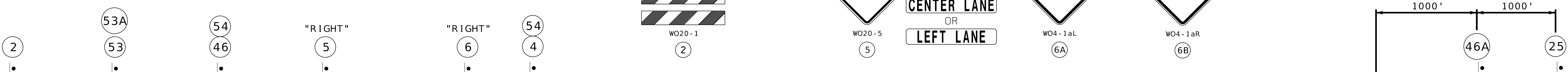
EFK Moen
 Civil Engineering Design

13523 Barrett Parkway Dr
 Suite 250
 St. Louis, MO 63021
 Phone 314-394-3100
 Fax 314-394-3199
 Missouri Certificate of Authority: 001578

NOT TO SCALE



NOTE:
NO DIRECT PAY FOR MOUNTING TEMPORARY SIGNS TO EXISTING BARRIER.



- LEGEND**
- SIGN
 - FLASHING ARROW PANEL
 - CHANNELIZERS
 - DIRECTIONAL INDICATOR BARRICADE
 - WORK AREA
 - PROTECTIVE VEHICLE WITH TRUCK MOUNTED ATTENUATOR (TMA)

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SHOULDER WORK (LEFT OR RIGHT)

TRAFFIC CONTROL SHEET 2 OF 13



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08/09/2024 4:55:04 PM
Paul J. Kronlage - Civil
MO PE - 023328

DATE PREPARED
8/9/2024
ROUTE
1 - 44
STATE
MO
DISTRICT
CD
SHEET NO.
11
COUNTY
PULASKI

JOB NO.
JCD0112
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)

EFK Moen
Civil Engineering Design
13523 Barrett Parkway Dr
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St. Louis, MO 63021
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WORK IN THE VICINITY OF AN EXIT RAMP NOT TO SCALE

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 Paul J. Kronlage - Civil
 MO PE - 023328

DATE PREPARED
 8/9/2024

ROUTE STATE
 I - 44 MO

DISTRICT SHEET NO.
 CD 12

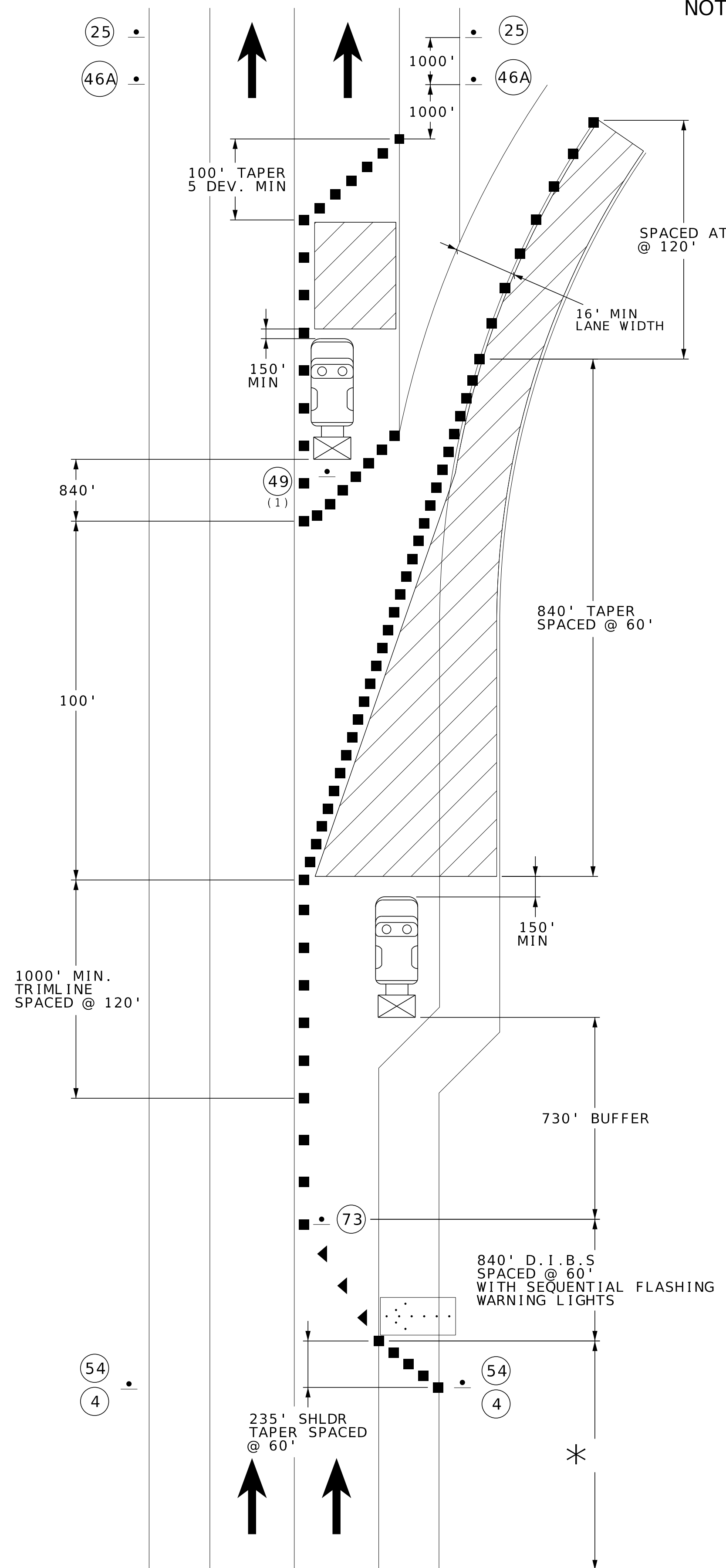
COUNTY
 PULASKI

JOB NO.
 JCD0111

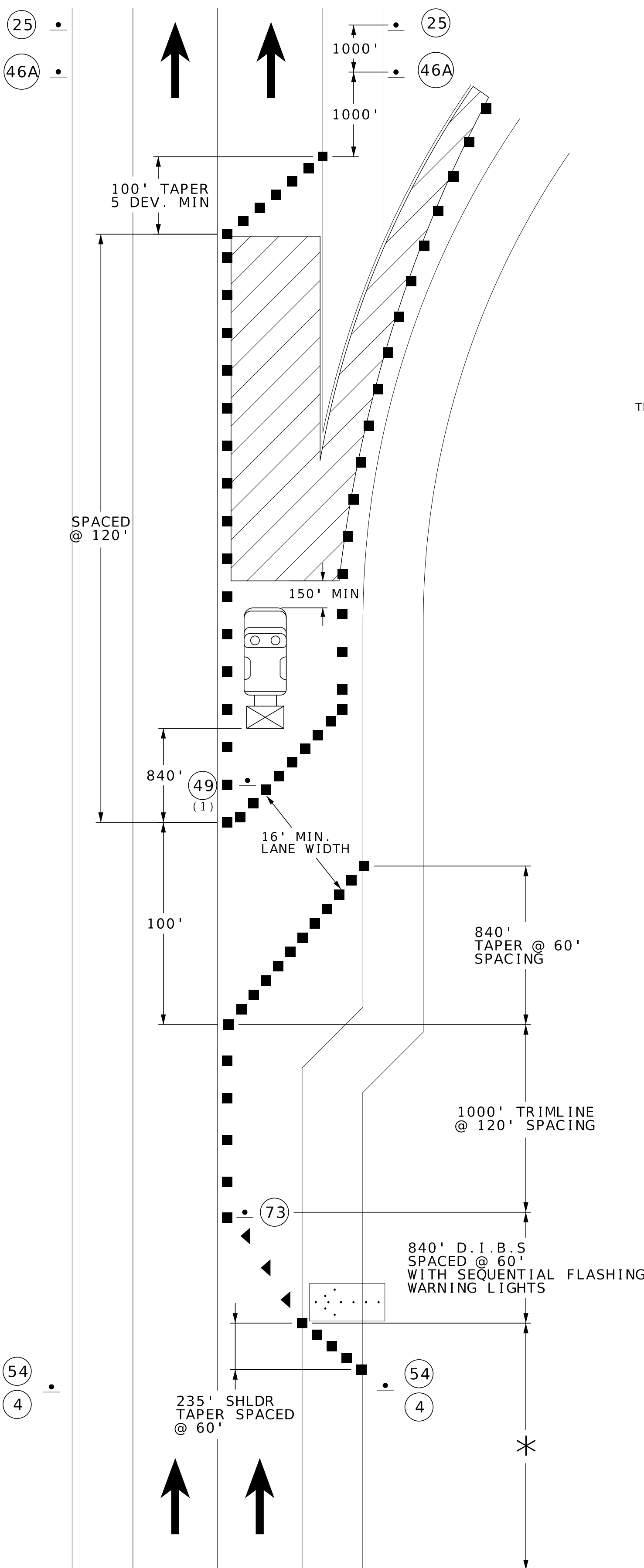
CONTRACT ID.

PROJECT NO.

BRIDGE NO.



*FOR DETAILS ON THE ADVANCE SIGNING AREA,
 SEE "SINGLE LANE CLOSURE" TYPICAL APPLICATIONS



*FOR DETAILS ON THE ADVANCE SIGNING AREA,
 SEE "SINGLE LANE CLOSURE" TYPICAL APPLICATIONS

LEGEND

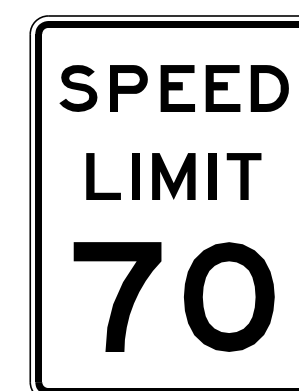
- FLASHING ARROW PANEL
- CHANNELIZERS
- DIRECTIONAL INDICATOR BARRICADE
- PROTECTIVE VEHICLE WITH TRUCK MOUNTED ATTENUATOR (TMA)
- SIGN
- WORK AREA

NOTES:

- (1) PLACE TEMPORARY SIGN AT A MOUNTING HEIGHT OF 7' WITHIN THE TEMPORARY GORE
- (2) 5 CHANNELIZER DEVICES MINIMUM
- (3) NO DIRECT PAY FOR MOUNTING TEMPORARY SIGNS TO EXISTING BARRIER.



E05-2
 (73)



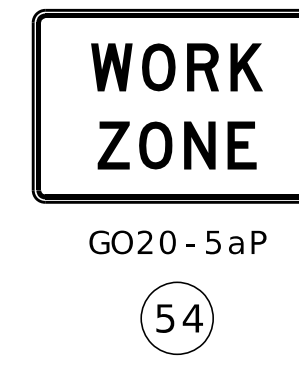
R2-1
 (25)



R2-1
 (4)



E05-1
 (49)
 (1)



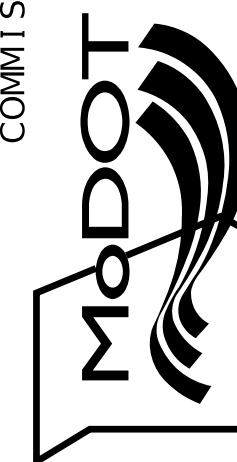
GO20-5aP
 (54)



R4-2
 (46A)

DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION
 COMMISSION



105 WEST CAPITOL
 JEFFERSON CITY, MO 65102
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EFK Moen
 Civil Engineering Design

13523 Barrett Parkway Dr
 Suite 250
 St. Louis, MO 63021
 Phone 314-394-3100
 Fax 314-394-3199
 Missouri Certificate of Authority: 001578

TRAFFIC CONTROL
 SHEET 3 OF 13

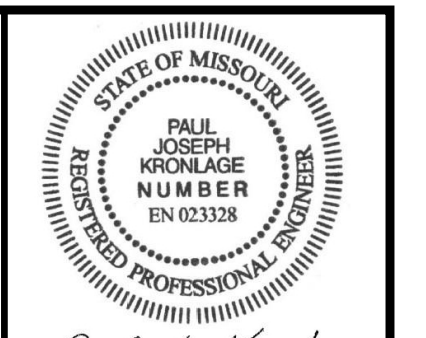
NOT TO SCALE

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NOTES:
 (1) NO ADVANCED RAIL WARNING SYSTEM ON SIGN.
 (2) NO DIRECT PAY FOR MOUNTING TEMPORARY SIGNS TO EXISTING BARRIER.

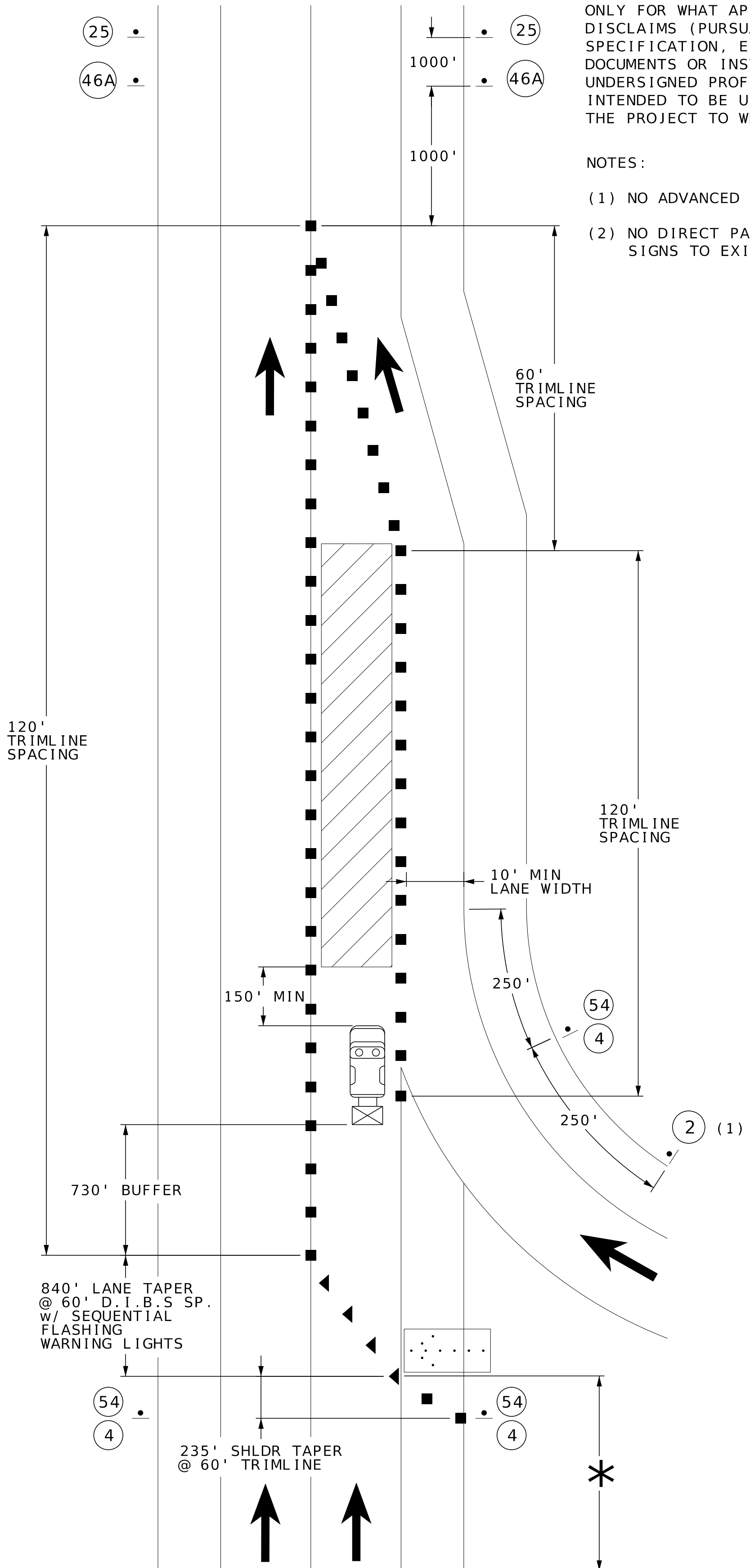
LEGEND

- PROTECTIVE VEHICLE WITH TRUCK MOUNTED ATTENUATOR (TMA)
- WORK AREA
- FLASHING ARROW PANEL
- SIGN
- CHANNELIZERS
- DIRECTIONAL INDICATOR BARRICADE

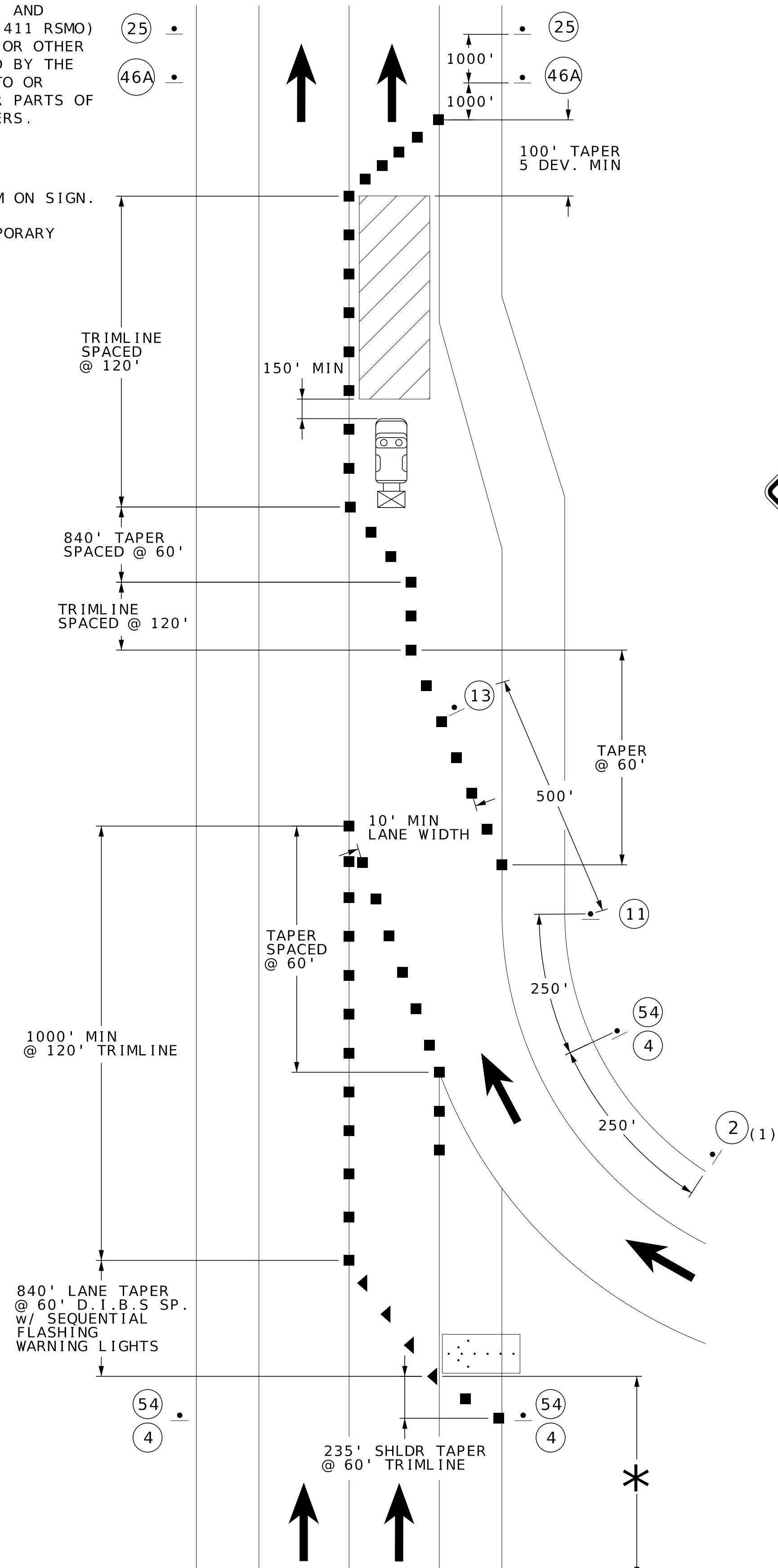


Paul J. Kronlage
 08/09/2024 4:56:46 PM
 Paul J. Kronlage - Civil
 MO PE - 023328

DATE PREPARED
 8/9/2024
 ROUTE
 I - 44
 DISTRICT
 CD
 COUNTY
 PULASKI
 JOB NO.
 JCD0112
 CONTRACT ID.
 PROJECT NO.
 BRIDGE NO.



*FOR DETAILS ON THE ADVANCED SIGNING AREA, SEE "SINGLE LANE CLOSURE" TYPICAL APPLICATIONS



*FOR DETAILS ON THE ADVANCED SIGNING AREA, SEE "SINGLE LANE CLOSURE" TYPICAL APPLICATIONS



WO3-4
 (11)



WO20-1
 (2)

BRIDGE
 OR
 RAMP



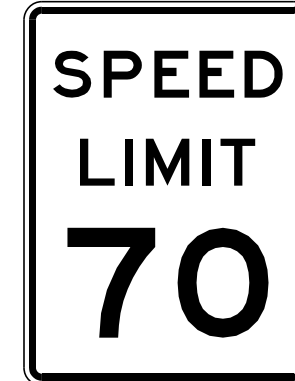
R1-2
 (13)



GO20-5aP
 (54)



R4-2
 (46A)



R2-1
 (25)



R2-1
 (4)

TRAFFIC CONTROL
 SHEET 4 OF 13

WORK IN THE VICINITY OF AN ENTRANCE RAMP

DESCRIPTION	DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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

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

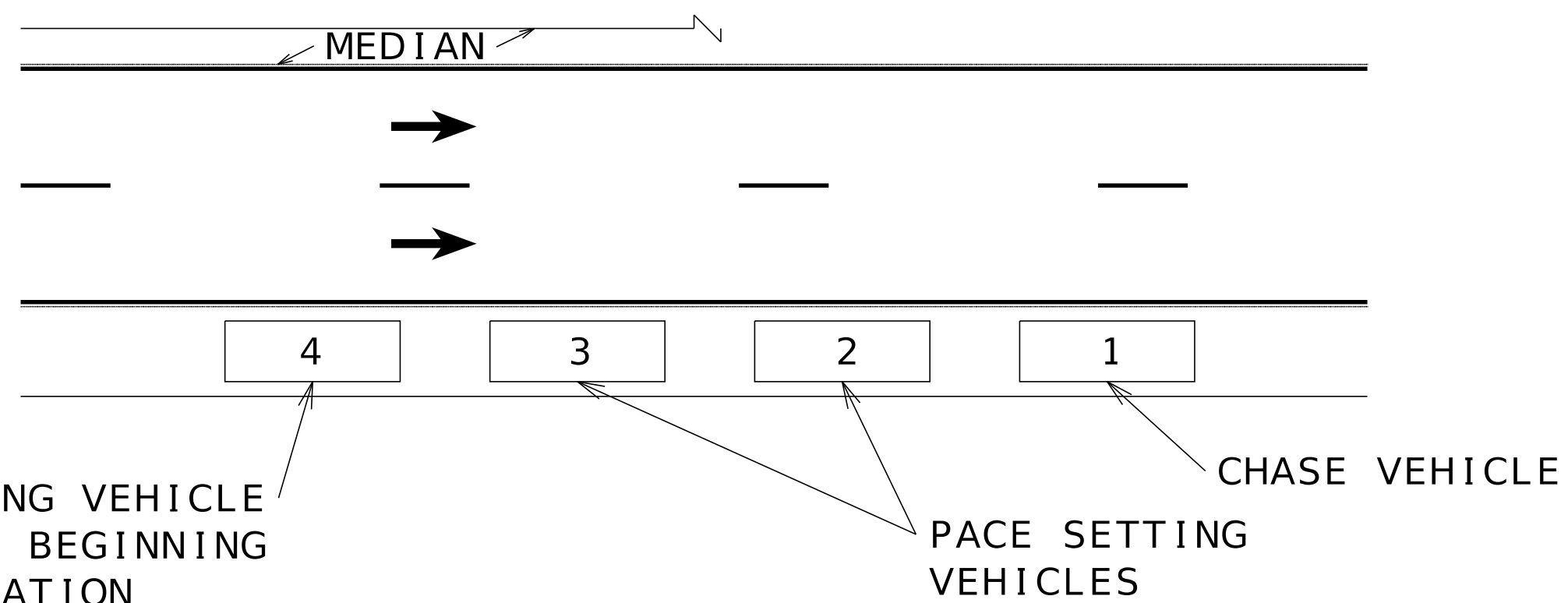
ROLLING ROAD BLOCK - VEHICLE STAGING

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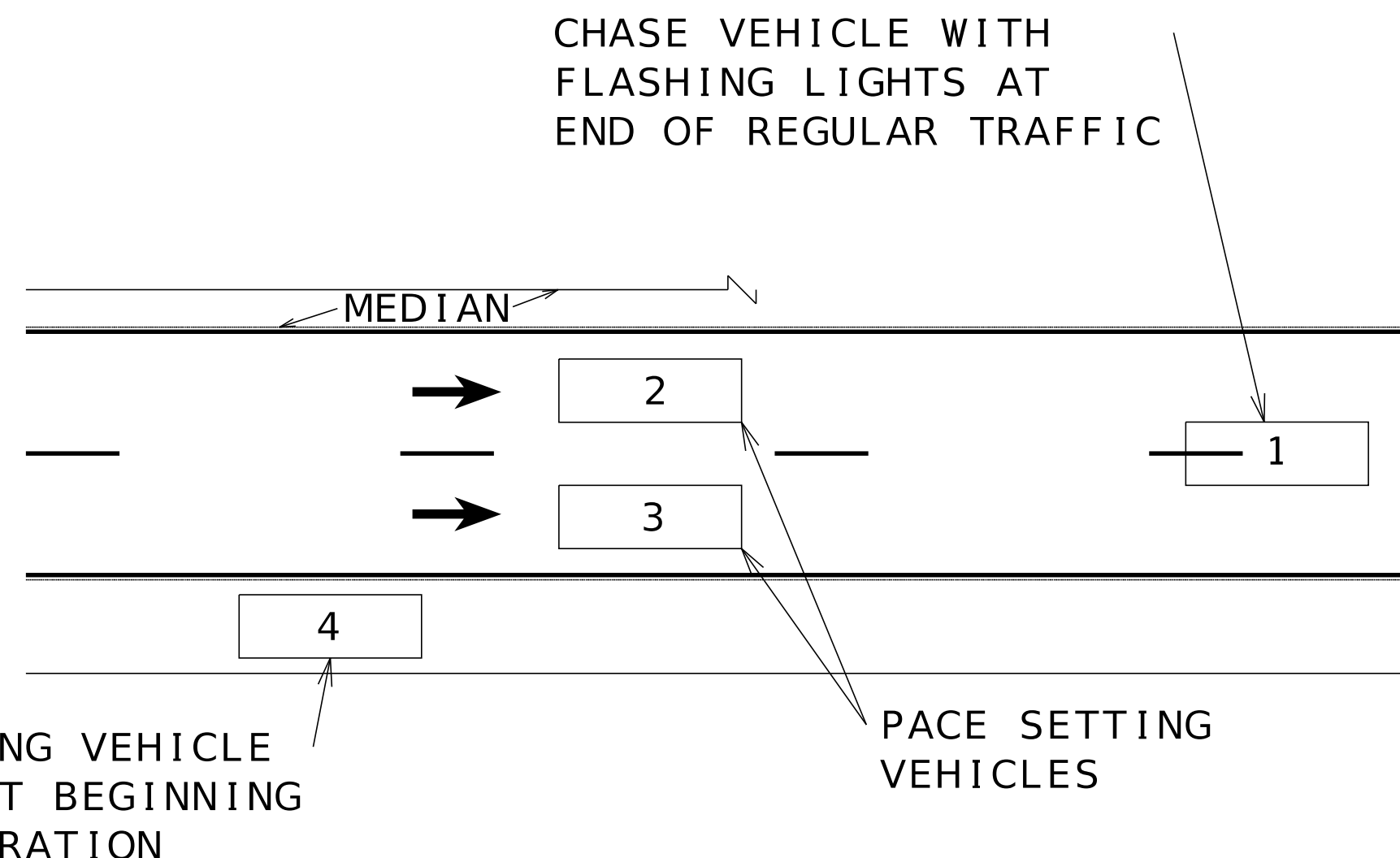


Paul J. Kronlage
 08/09/2024 4:57:05 PM
 Paul J. Kronlage - Civil
 MO PE - 023328

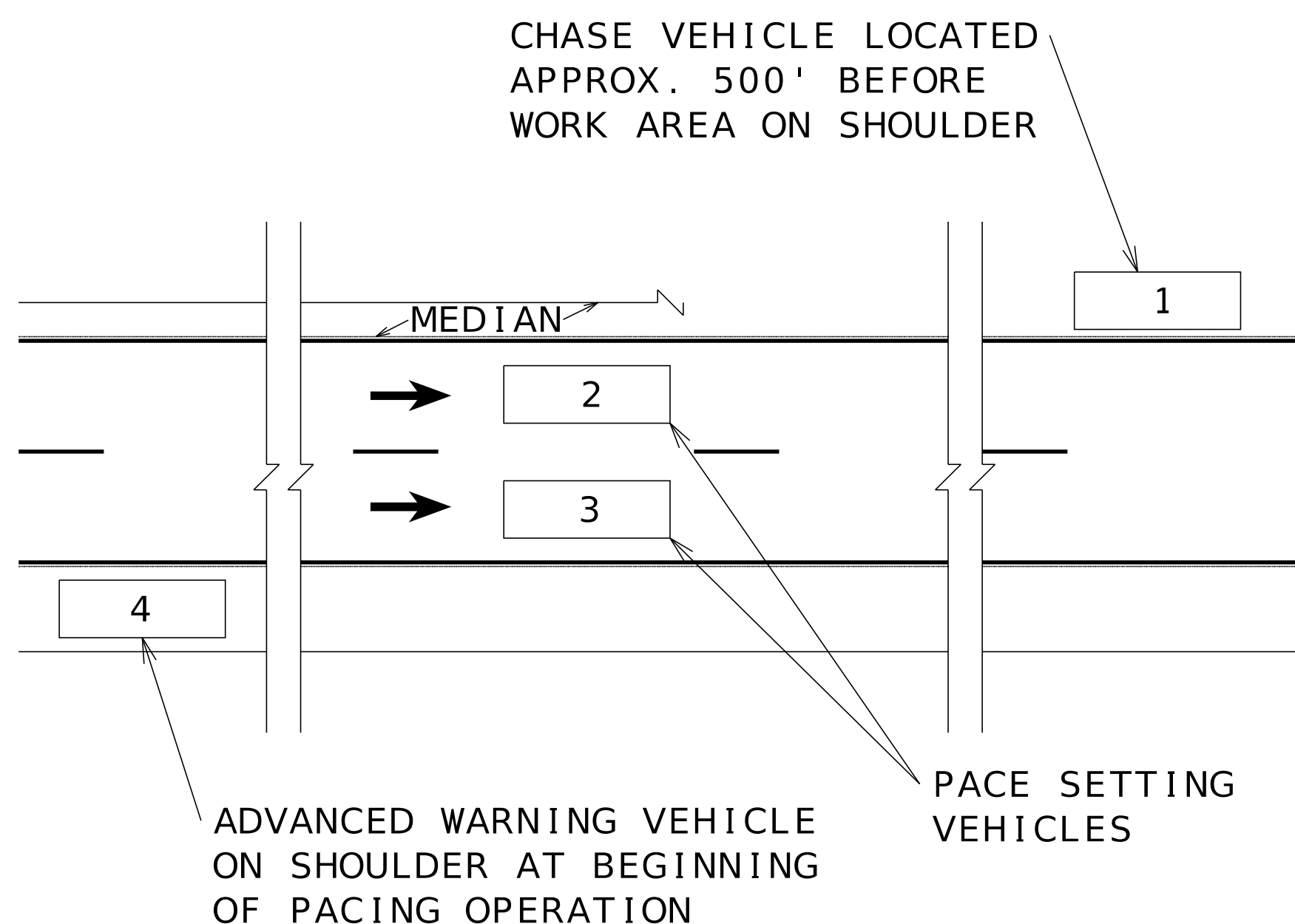
DATE PREPARED 8/9/2024	
ROUTE I - 44	STATE MO
DISTRICT CD	SHEET NO. 14
COUNTY PULASKI	
JOB NO. JCD0112	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	



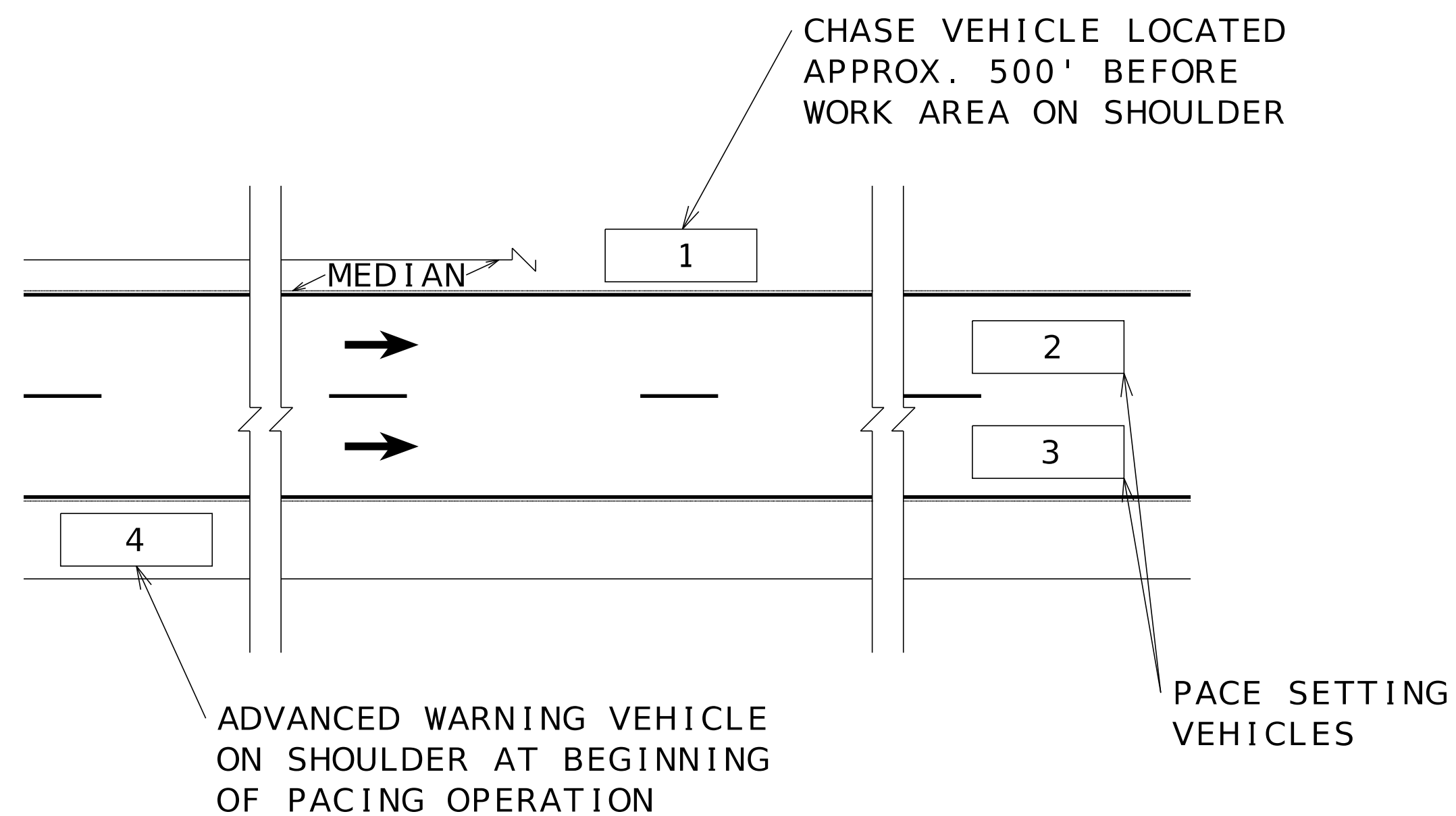
STAGE ONE



STAGE TWO



STAGE THREE



STAGE FOUR

NOTES:

- PACING VEHICLES SHALL BE LAW ENFORCEMENT VEHICLES WITH BLUE LIGHTS FLASHING, DRIVEN BY UNIFORMED LAW ENFORCEMENT PERSONNEL
- TWO-WAY RADIOS SHALL BE USED TO PROVIDE CONSTANT COMMUNICATION BETWEEN PILOT VEHICLES, CONTRACTOR'S WORKERS, AND PROJECT ENGINEER

TRAFFIC CONTROL
 SHEET 5 OF 13

DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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

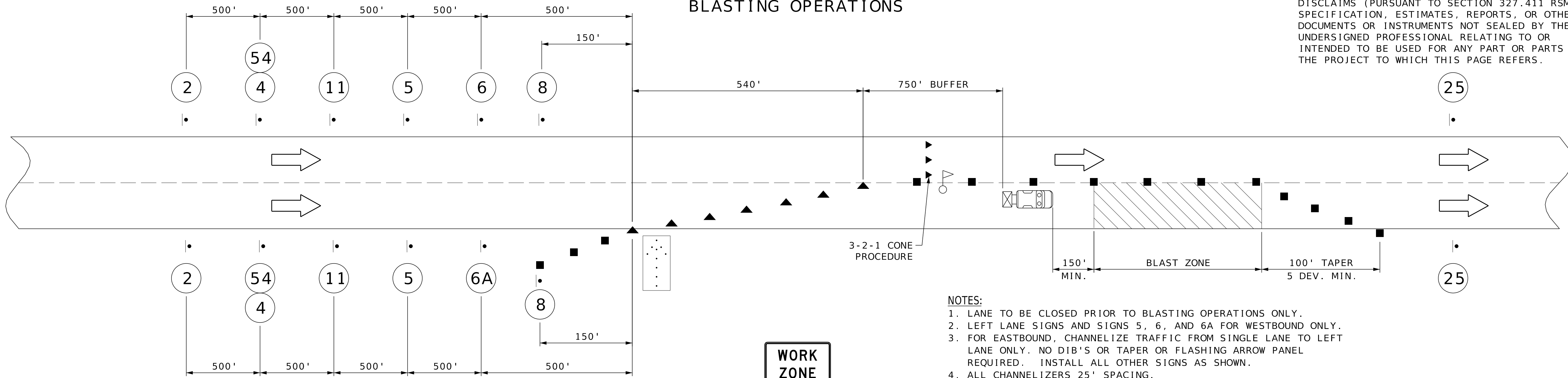
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 Civil Engineering Design
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 St. Louis, MO 63021
 Phone 314-394-3100
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**BUSINESS 44 AT 159 EXIT
BLASTING OPERATIONS**

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08/09/2024 4:57:35 PM
Paul J. Kronlage - Civil
MO PE - 023328

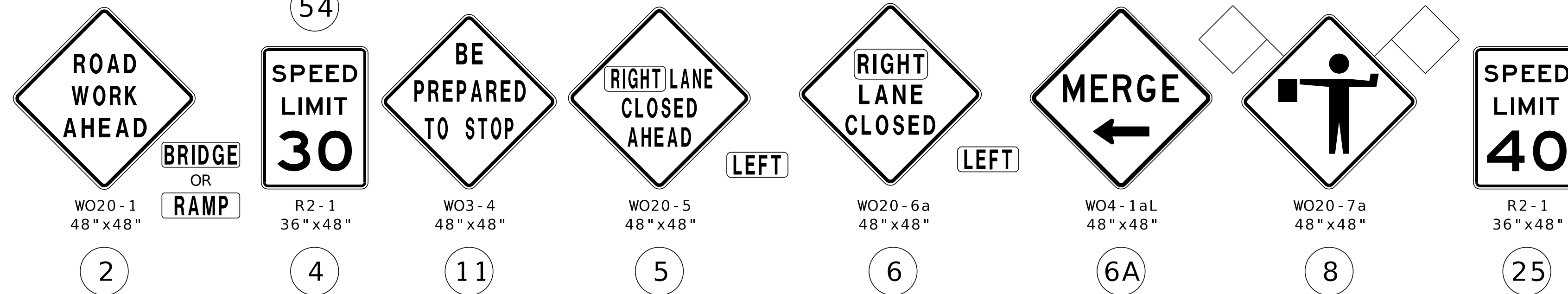


- NOTES:**
1. LANE TO BE CLOSED PRIOR TO BLASTING OPERATIONS ONLY.
 2. LEFT LANE SIGNS AND SIGNS 5, 6, AND 6A FOR WESTBOUND ONLY.
 3. FOR EASTBOUND, CHANNELIZE TRAFFIC FROM SINGLE LANE TO LEFT LANE ONLY. NO DIB'S OR TAPER OR FLASHING ARROW PANEL REQUIRED. INSTALL ALL OTHER SIGNS AS SHOWN.
 4. ALL CHANNELIZERS 25' SPACING.
 5. FLAGGER WITH HAND HELD STOP SIGN TO STOP TRAFFIC DURING BLASTING AND CLEAN UP.

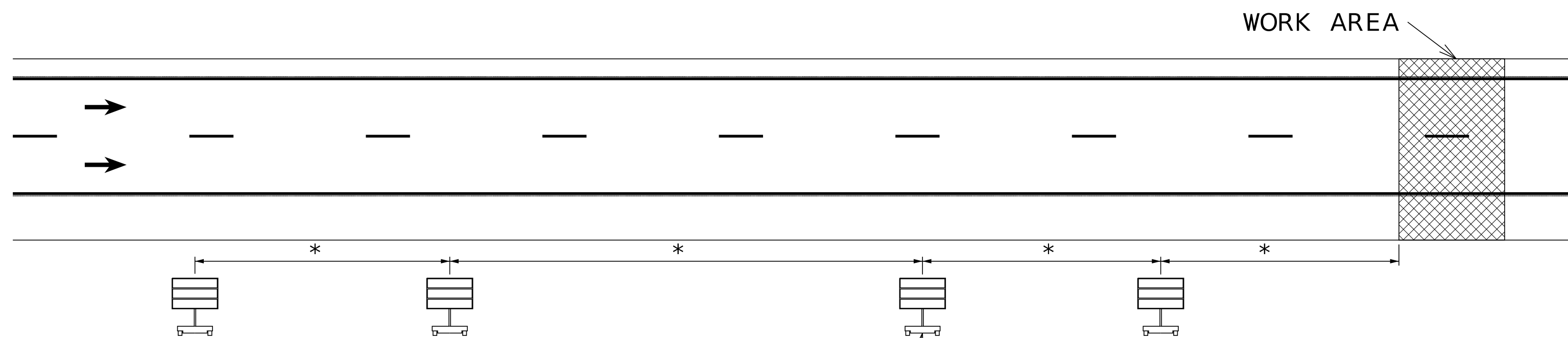
WORK ZONE
G020-5aP
36" x 24"

TRAFFIC CONTROL LEGEND

- SIGN (SINGLE SIDED)
- CHANNELIZER (TRIM LINE)
- ▲ DIRECTIONAL INDICATOR BARRICADE
- ▲ CONE
- ◻ FLASHING ARROW PANEL
- ◻ TRUCK MOUNTED ATTENUATOR
- ▨ BLAST ZONE
- △ FLAGGER



**I-44 WZITS CHANGEABLE MESSAGE SIGNS
(TYPICAL PLACEMENT AND MESSAGES)**



CHANGEABLE MESSAGE SIGN WITH COMMUNICATION INTERFACE, CONTRACTOR FURNISHED/RETAINED (TYPICAL)

CHANGEABLE MESSAGE SIGN MESSAGE

* - DISTANCE BETWEEN CMS ARE TO BE DETERMINED BY THE CONTRACTOR AS PART OF THEIR WZITS PLAN TO BE APPROVED BY THE ENGINEER.

NOTES:

CMS LOCATIONS MAY BE ADJUSTED FOR FIELD CONDITIONS AS APPROVED BY THE ENGINEER

ADVANCED SIGNING WARNING MOTORISTS OF THE TRAFFIC PACING SHALL BE PROVIDED DURING PACING OPERATION

ONE WEEK PRIOR TO PACING OPERATION	EXPECT DELAYS ON	MMM DD-DD
		X AM-X AM

DURING DAY OF PACING OPERATION

ROAD WORK TONIGHT	EXPECT PERIODIC DELAYS
-------------------	------------------------

DURING PACING OPERATION & LANE CLOSURES

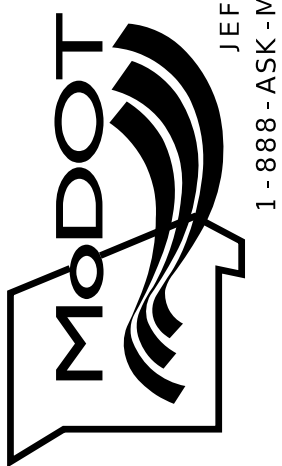
SLOW TRAFFIC AHEAD	BE PREPARED TO STOP
--------------------	---------------------

TRAFFIC CONTROL SHEET 6 OF 13

DESCRIPTION

DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION



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

EFK Moen
Civil Engineering Design

13523 Barrett Parkway Dr
Suite 250
St. Louis, MO 63021
Phone 314-394-3100
Fax 314-394-3199
Missouri Certificate of Authority: 001578

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 08/09/2024 4:57:50 PM
 Paul J. Kronlage - Civil
 MO PE - 023328

DATE PREPARED
 8/9/2024

ROUTE STATE
 I - 44 MO

DISTRICT SHEET NO.
 CD 16

COUNTY
 PULASKI

JOB NO.
 JCD0112

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

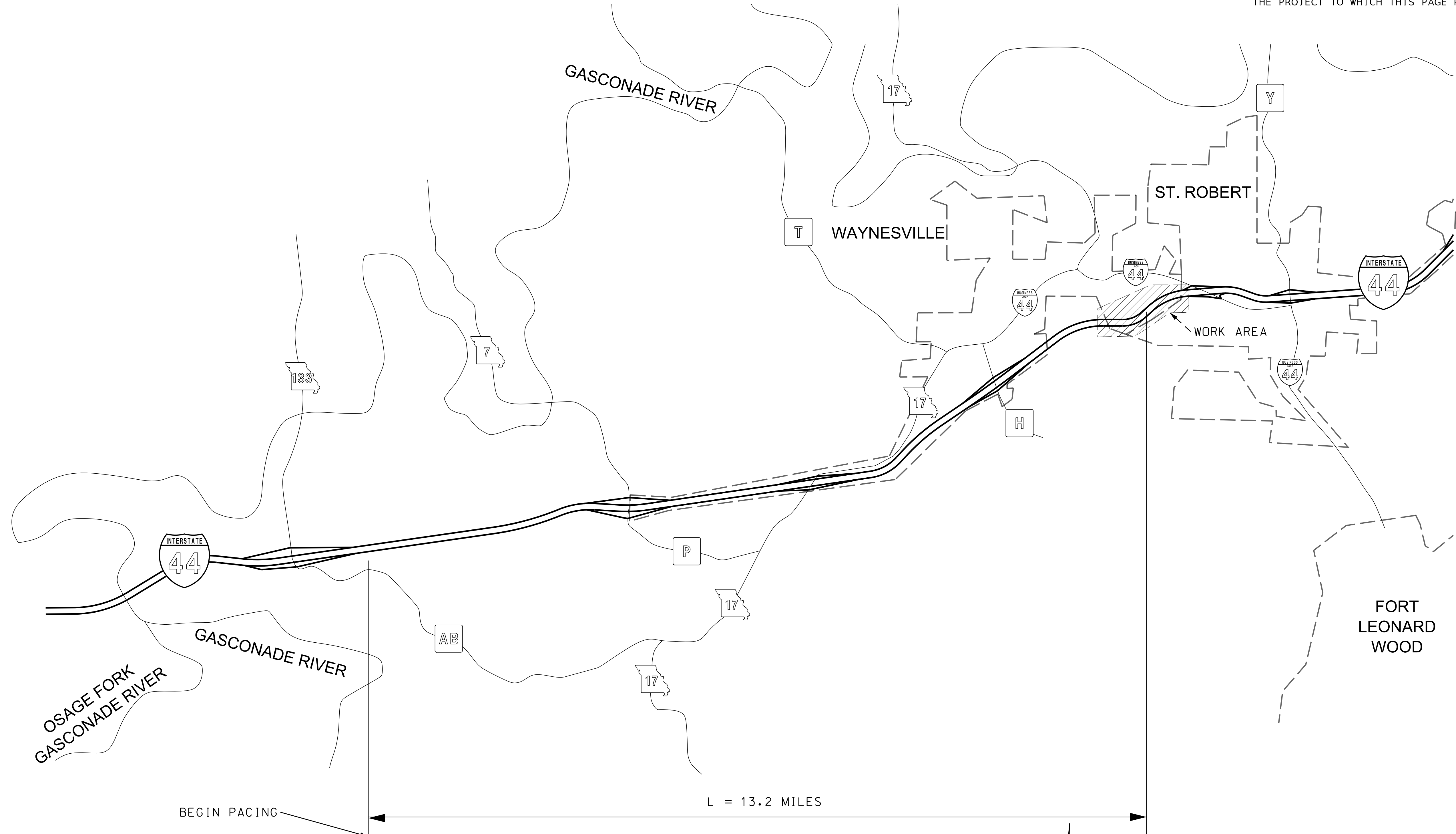
DESCRIPTION	DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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

EFK Moen

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



NOTES:
 ANY ON-RAMPS OR OTHER ACCESS POINTS BETWEEN THE BEGINNING POINT OF THE PACING AREA AND THE WORK AREA SHALL BE BLOCKED UNTIL THE PILOT VEHICLES HAVE PASSED.
 ACCESS POINT LOCATION ARE TO BE IDENTIFIED BY THE ENGINEER.

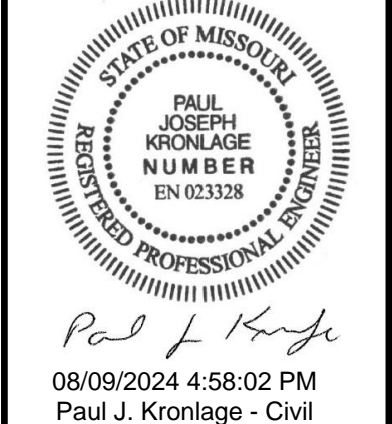
ROLLING ROAD BLOCK 15 MINUTE PLAN



NOT TO SCALE

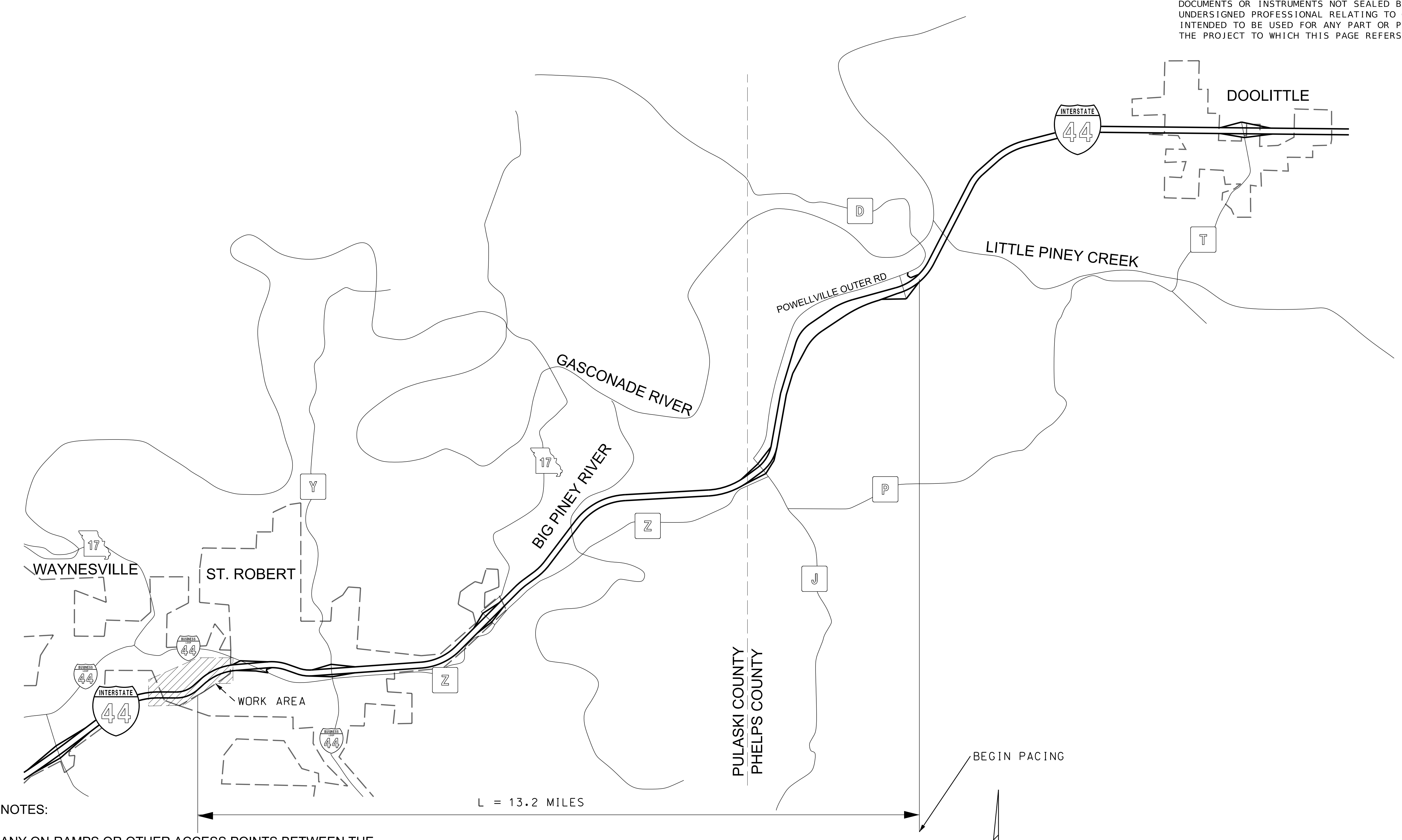
TRAFFIC CONTROL
 SHEET 7 OF 13

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Paul J. Kronlage
 08/09/2024 4:58:02 PM
 Paul J. Kronlage - Civil
 MO PE - 023328

DATE PREPARED 8/9/2024	
ROUTE I-44	STATE MO
DISTRICT CD	SHEET NO. 17
COUNTY PULASKI	
JOB NO. JCD0112	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	



NOTES:

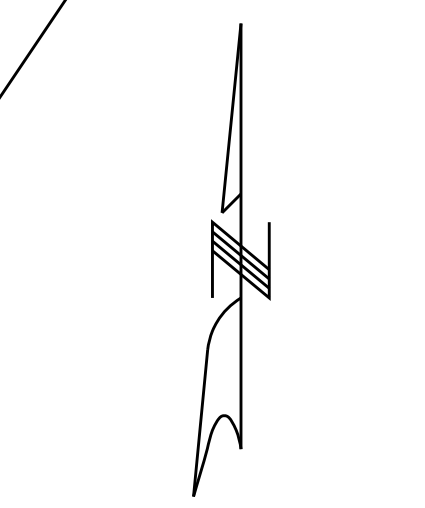
ANY ON-RAMPS OR OTHER ACCESS POINTS BETWEEN THE BEGINNING POINT OF THE PACING AREA AND THE WORK AREA SHALL BE BLOCKED UNTIL THE PILOT VEHICLES HAVE PASSED.

ACCESS POINT LOCATION ARE TO BE IDENTIFIED BY THE ENGINEER.

ROLLING ROAD BLOCK 15 MINUTE PLAN

WORK AREA

BEGIN PACING



NOT TO SCALE

TRAFFIC CONTROL
 SHEET 8 OF 13

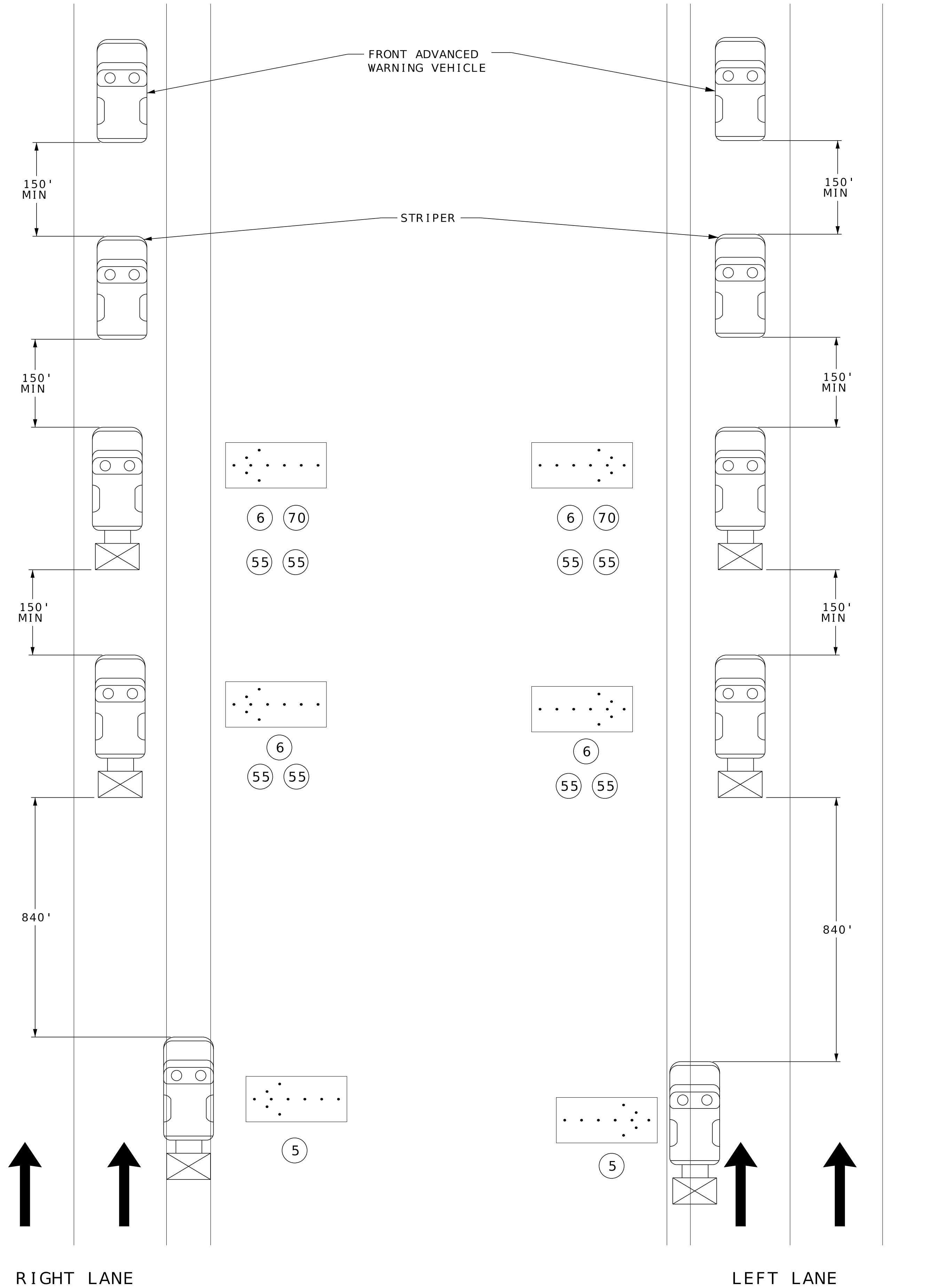
DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

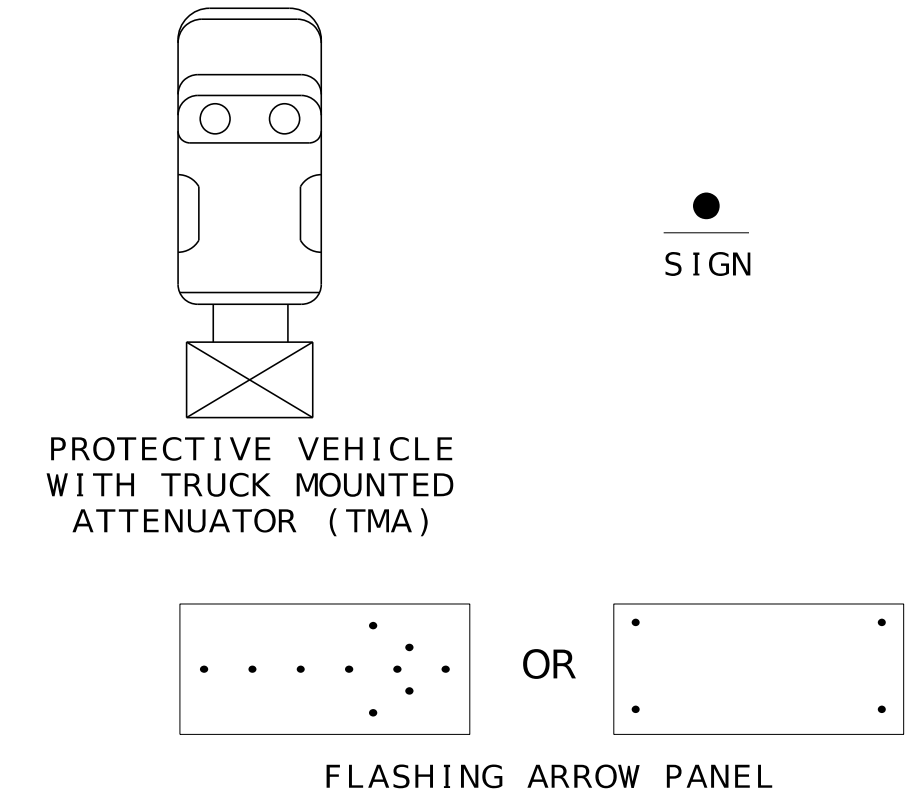
105 WEST CAPITOL
 JEFFERSON CITY, MO 65102
 1-888-ASK-MODOT (1-888-275-6636)

EFK Moen
 Civil Engineering Design
 13523 Barrett Parkway Dr
 Suite 250
 St. Louis, MO 63021
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NOT TO SCALE



LEGEND



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Paul J. Kronlage
08/09/2024 4:58:17 PM
Paul J. Kronlage - Civil
MO PE - 023328

DATE PREPARED
8/9/2024
ROUTE
I-44 STATE
MO
DISTRICT SHEET NO.
CD 18
COUNTY
PULASKI
JOB NO.
JCD0112
CONTRACT ID.

PROJECT NO.
BRIDGE NO.

DESCRIPTION	DATE

NOTES:

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

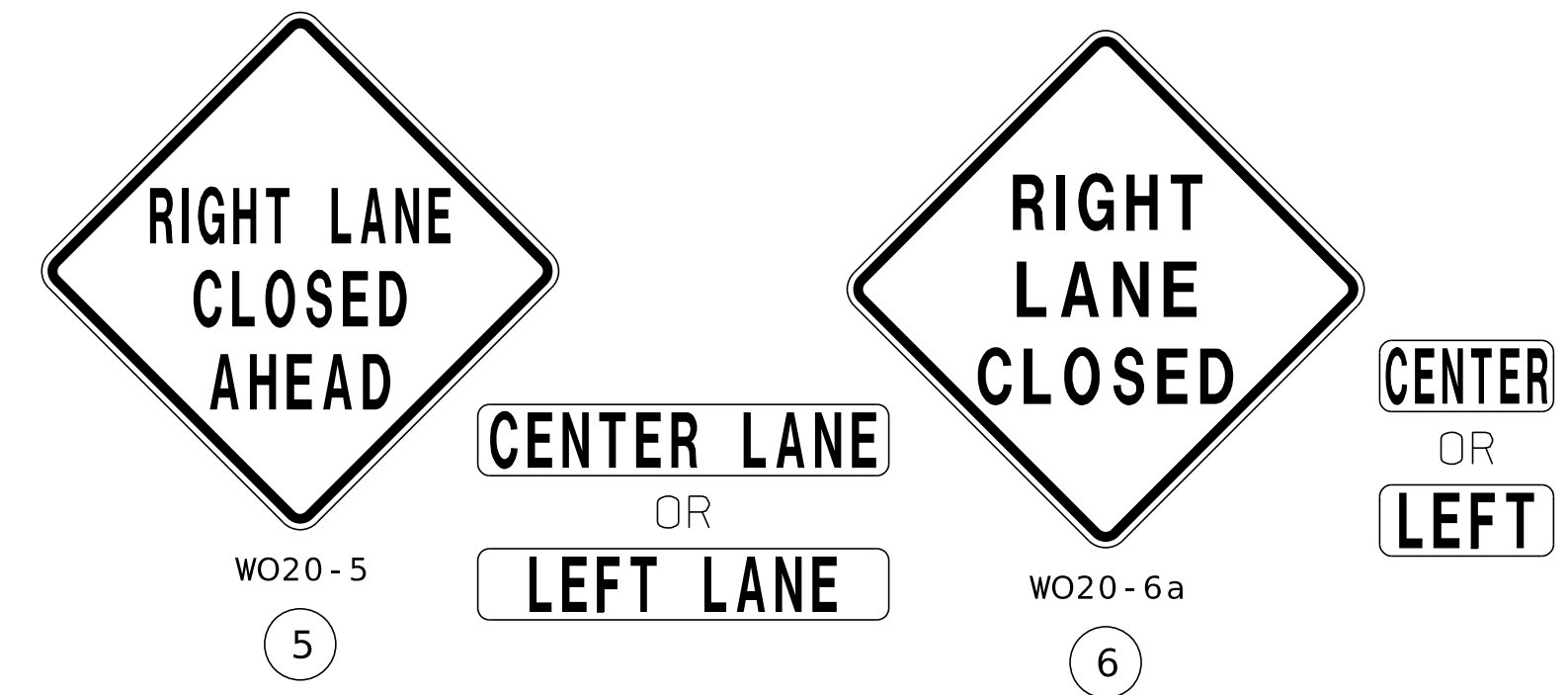
PROTECTIVE TRUCK AND WORK VEHICLES SHALL DISPLAY HIGH-INTENSITY ROTATING, FLASHING, OSCILLATING, OR STROBE LIGHTS.

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

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 LEGENDS 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 CLOSED LANE.

NO DIRECT PAY FOR MOUNTING TEMPORARY SIGNS TO EXISTING BARRIER.

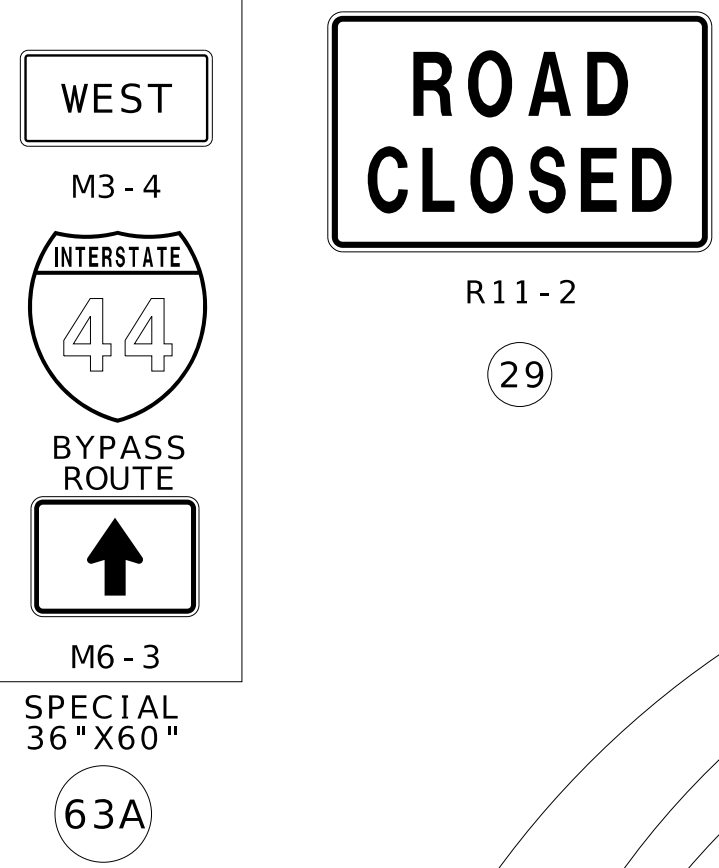


MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
MoDOT
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

EFK Moen
Civil Engineering Design
13523 Barrett Parkway Dr
Suite 250
St. Louis, MO 63021
Phone 314-394-3100
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MOBILE OPERATIONS FOR PAVEMENT MARKING FOR A 2 LANE DIVIDED HIGHWAY

TRAFFIC CONTROL
SHEET 9 OF 13



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Paul J. Kronlage
 08/09/2024 4:58:34 PM
 Paul J. Kronlage - Civil
 MO PE - 023328

- TRAFFIC CONTROL LEGEND
- CHANNELIZER
 - TYPE III MOVEABLE BARRICADE
 - SIGN
 - ☐ CHANGEABLE MESSAGE SIGN

DATE PREPARED
8/9/2024

ROUTE	STATE
I - 44	MO
DISTRICT	SHEET NO.
CD	19

COUNTY
PULASKI

JOB NO.
JCD0112

CONTRACT ID.

PROJECT NO.

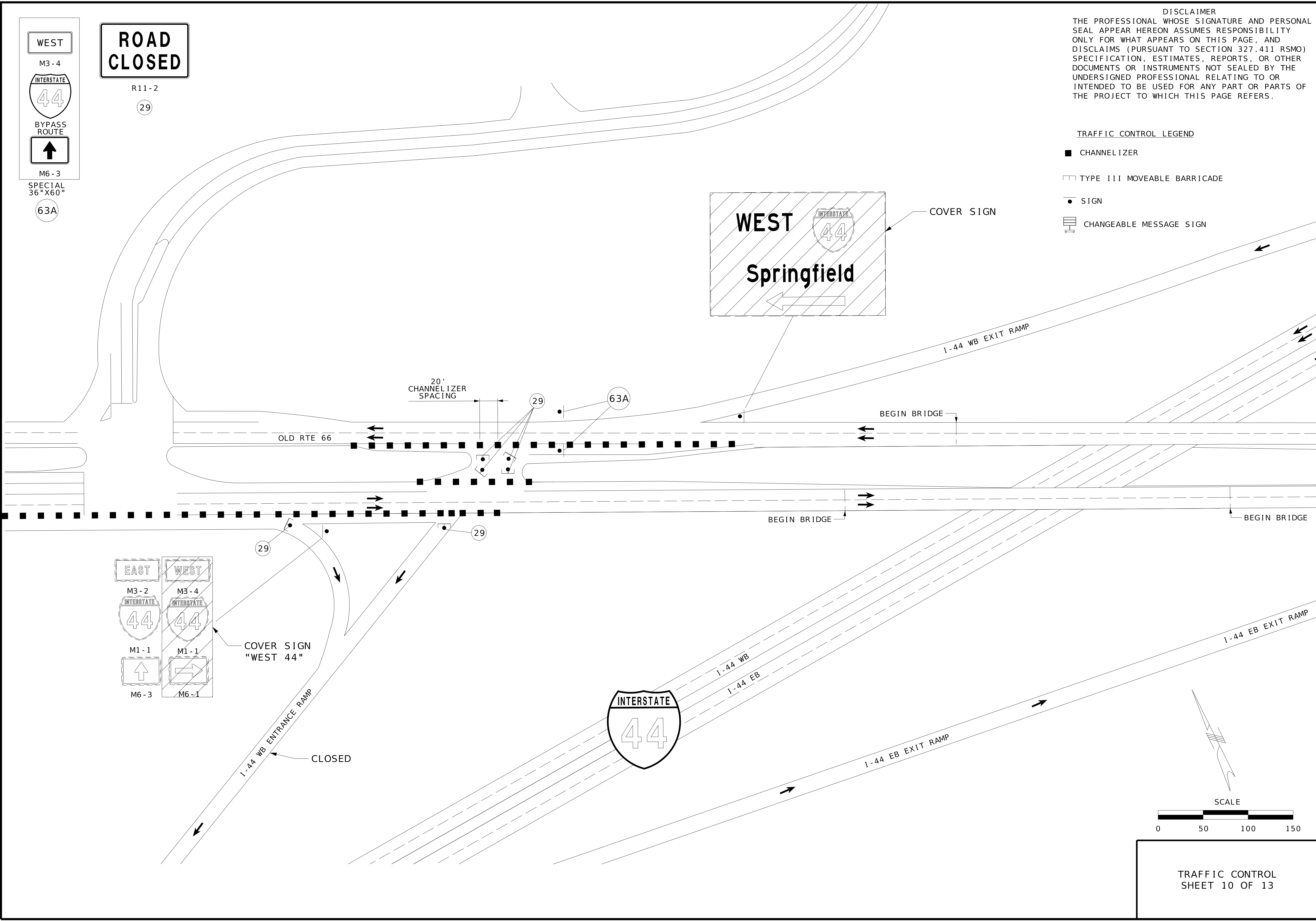
BRIDGE NO.

DATE	DESCRIPTION

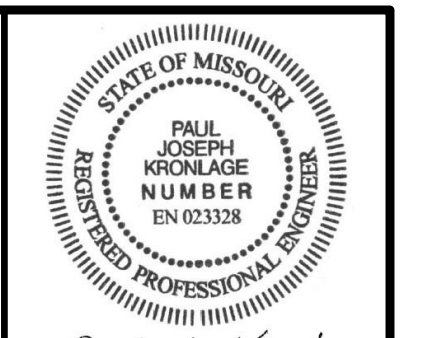
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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

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

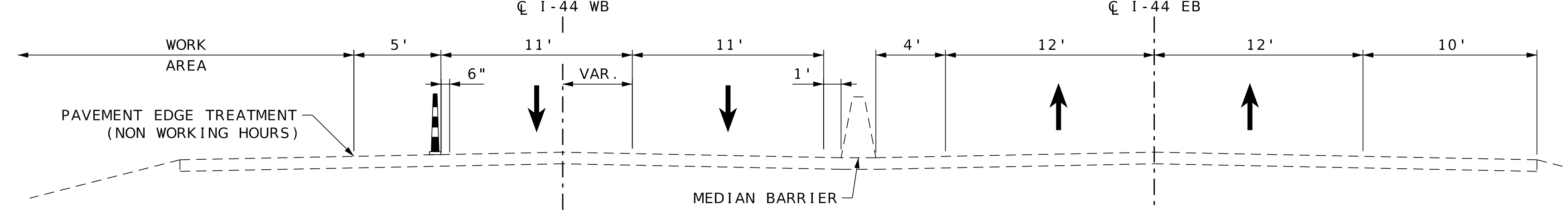
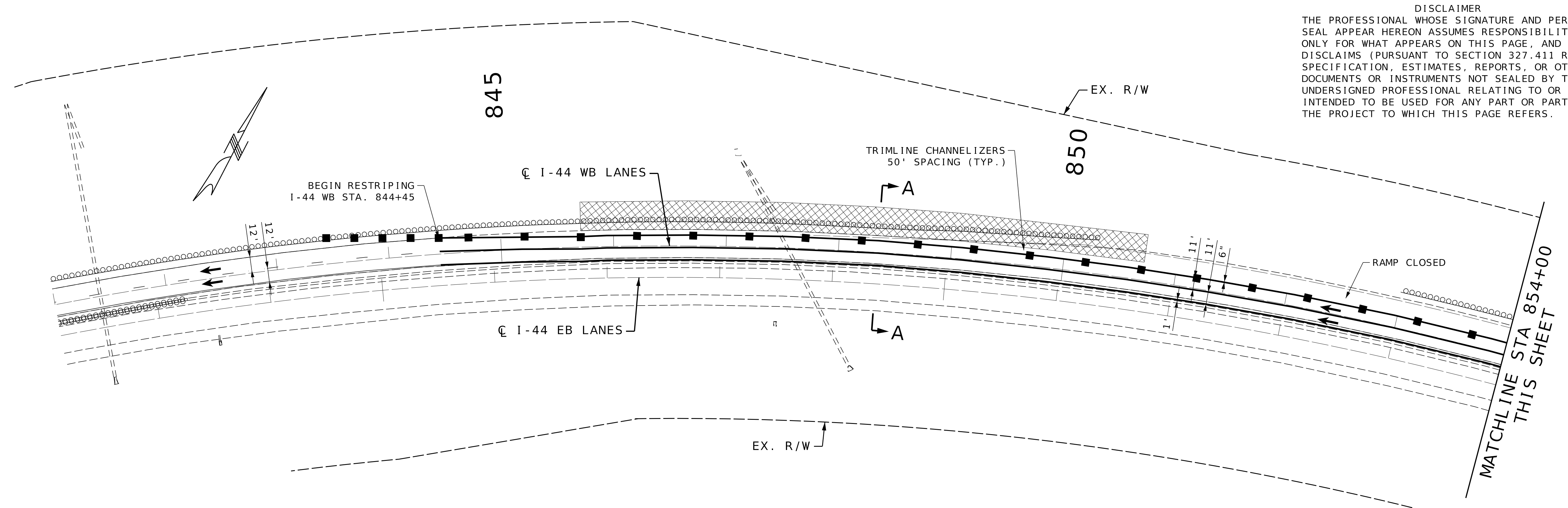


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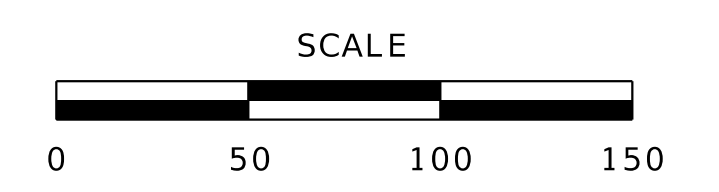
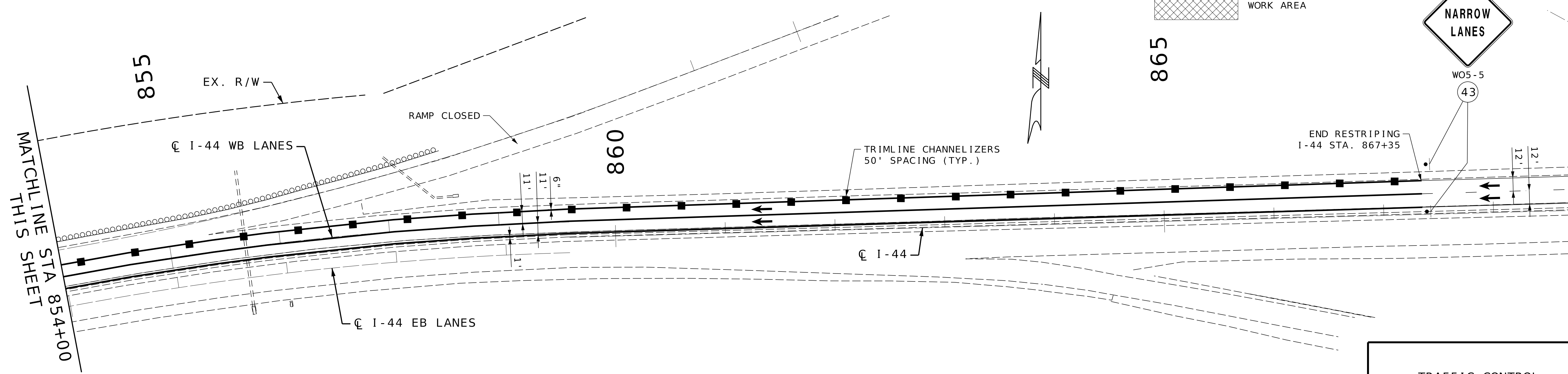
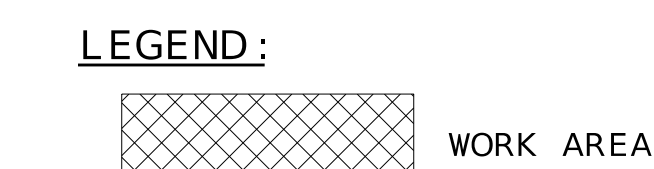


Paul J. Kronlage
 08/21/2024 3:25:34 PM
 Paul J. Kronlage - Civil
 MO PE - 023328

DATE PREPARED	8/19/2024
ROUTE	I-44
STATE	MO
DISTRICT	CD
SHEET NO.	20
COUNTY	PULASKI
JOB NO.	JCD0112
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	



- GENERAL NOTES:**
1. CLOSE WESTBOUND ON RAMP AND RESTRIPE I-44.
 2. USE PAVEMENT EDGE TREATMENT DURING NON-WORKING HOURS.
 3. CLOSE RIGHT LANE DURING WORKING HOURS. SEE OTHER SHEETS FOR STANDARD LANE CLOSURE.
 4. RAMP SHALL REMAIN CLOSED UNTIL ACCELERATION LANE WORK COMPLETED AND READY TO OPEN TO TRAFFIC.
 5. RESTRIPE I-44 AND OPEN RAMP.
 6. NO DIRECT PAY FOR MOUNTING TEMPORARY SIGNS TO EXISTING BARRIER.



TRAFFIC CONTROL
 NON-WORKING HOURS
 SHEET 11 OF 13

DESCRIPTION	DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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

EFK Moen
 Civil Engineering Design
 13523 Barrett Parkway Dr
 Suite 250
 St. Louis, MO 63021
 Phone 314-394-3100
 Fax 314-394-3199
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Paul J. Kronlage
 08/21/2024 3:25:09 PM
 Paul J. Kronlage - Civil
 MO PE - 023328

DATE PREPARED
8/19/2024
 ROUTE
I - 44
 DISTRICT
CD
 STATE
MO
 SHEET NO.
21

COUNTY
PULASKI
 JOB NO.
JCD0112
 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)

EFK Moen
 Civil Engineering Design
 13523 Barrett Parkway Dr
 Suite 250
 St. Louis, MO 63021
 Phone 314-394-3100
 Fax 314-394-3199
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ALTERNATE

WEST

44

SPECIAL 36"x78"

63A

ALTERNATE

WEST

44

SPECIAL 36"x78"

63B

ALTERNATE

WEST

44

SPECIAL 36"x78"

63C

ALTERNATE

WEST

44

SPECIAL 36"x78"

63D

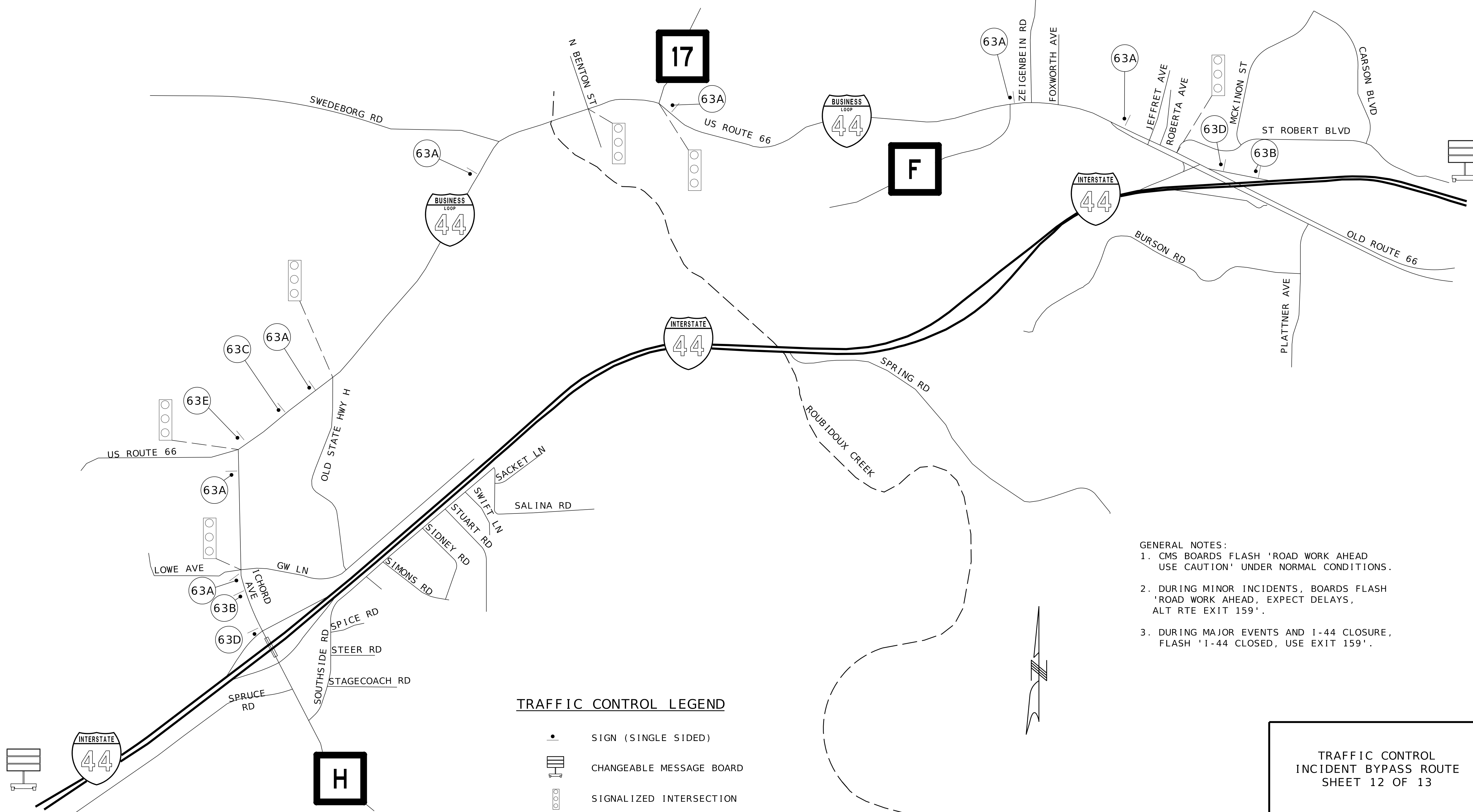
ALTERNATE

WEST

44

SPECIAL 36"x78"

63E



TRAFFIC CONTROL LEGEND

- SIGN (SINGLE SIDED)
- [Symbol] CHANGEABLE MESSAGE BOARD
- [Symbol] SIGNALIZED INTERSECTION

- GENERAL NOTES:
1. CMS BOARDS FLASH 'ROAD WORK AHEAD USE CAUTION' UNDER NORMAL CONDITIONS.
 2. DURING MINOR INCIDENTS, BOARDS FLASH 'ROAD WORK AHEAD, EXPECT DELAYS, ALT RTE EXIT 159'.
 3. DURING MAJOR EVENTS AND I-44 CLOSURE, FLASH 'I-44 CLOSED, USE EXIT 159'.

TRAFFIC CONTROL
 INCIDENT BYPASS ROUTE
 SHEET 12 OF 13

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08/21/2024 3:25:49 PM
Paul J. Kronlage - Civil
MO PE - 023328

DATE PREPARED
8/19/2024
ROUTE STATE
I - 44 MO
DISTRICT SHEET NO.
CD 22
COUNTY
PULASKI
JOB NO.
JCD0112
CONTRACT ID.

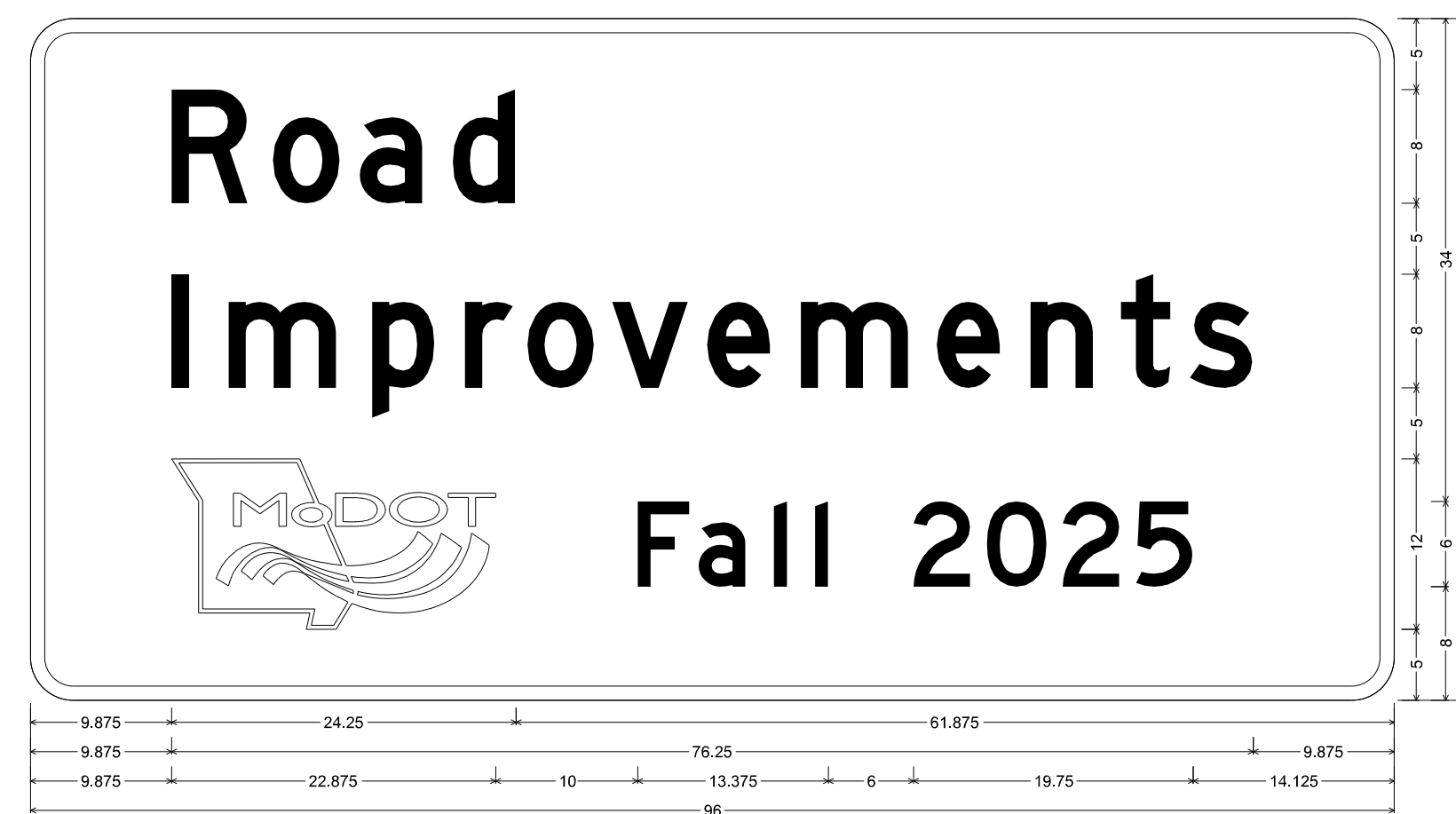
PROJECT NO.

BRIDGE NO.

DATE	DESCRIPTION

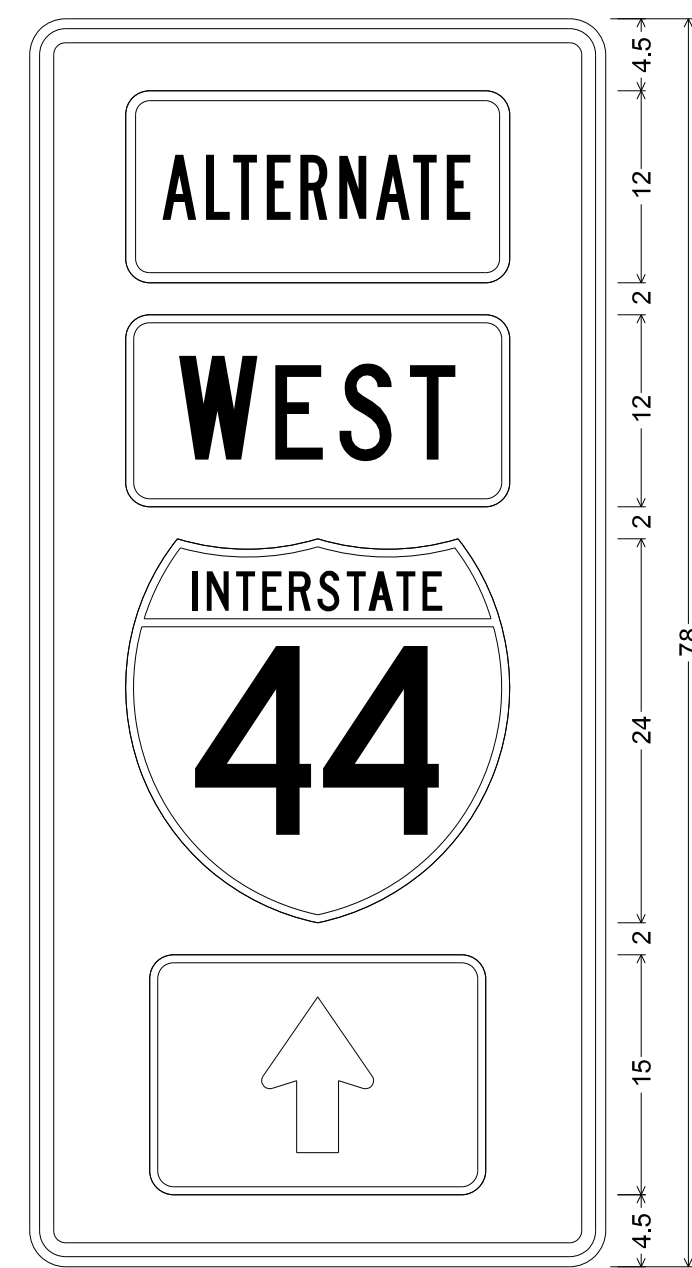
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
MoDOT
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

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



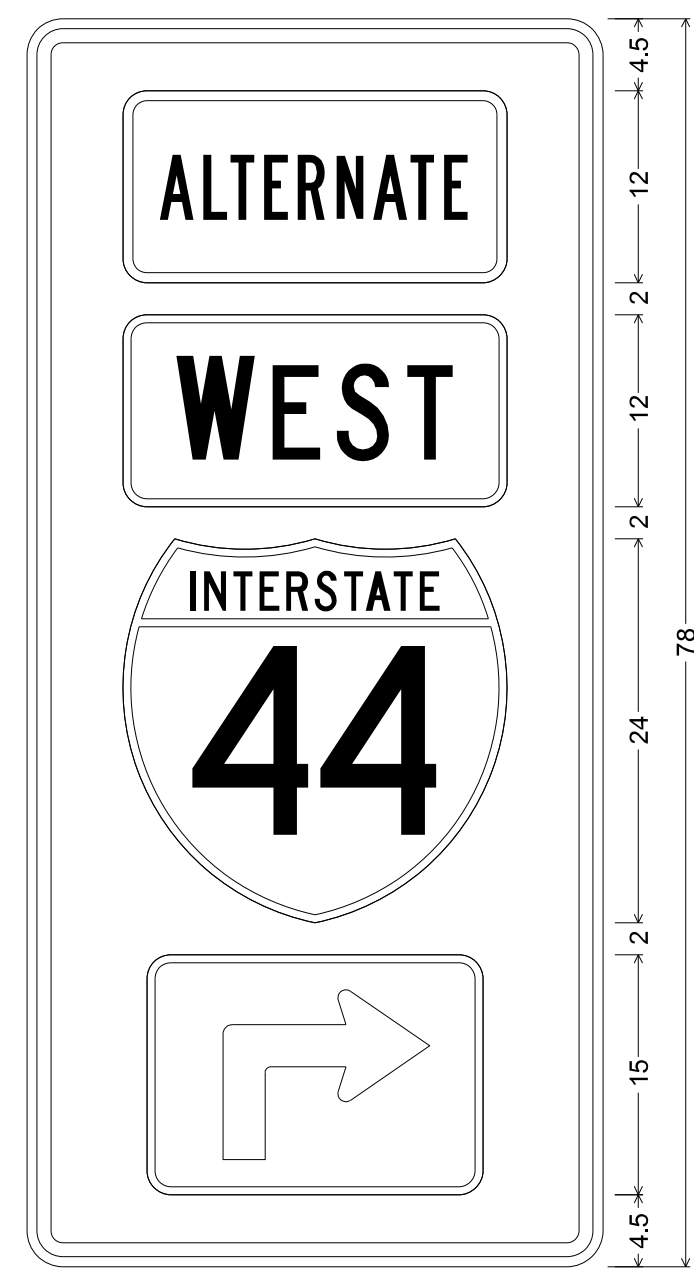
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3.000" Radius, 1.000" Border, White on, Blue;
"Road", D; "Improvements", D; "Fall 2025", D;
Table of letter and object lefts

R	C	A	D
9.875	17.125	23.125	29.750
I	m	p	f
9.875	14.000	24.000	30.625
e	v	o	s
9.875	42.750	47.000	52.375
5	6	7	8
9.875	42.750	47.000	52.375
9	10	11	12
9.875	42.750	47.000	52.375
13	14	15	16
9.875	42.750	47.000	52.375
17	18	19	20
9.875	42.750	47.000	52.375
21	22	23	24
9.875	42.750	47.000	52.375
25	26	27	28
9.875	42.750	47.000	52.375
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33	34	35	36
9.875	42.750	47.000	52.375



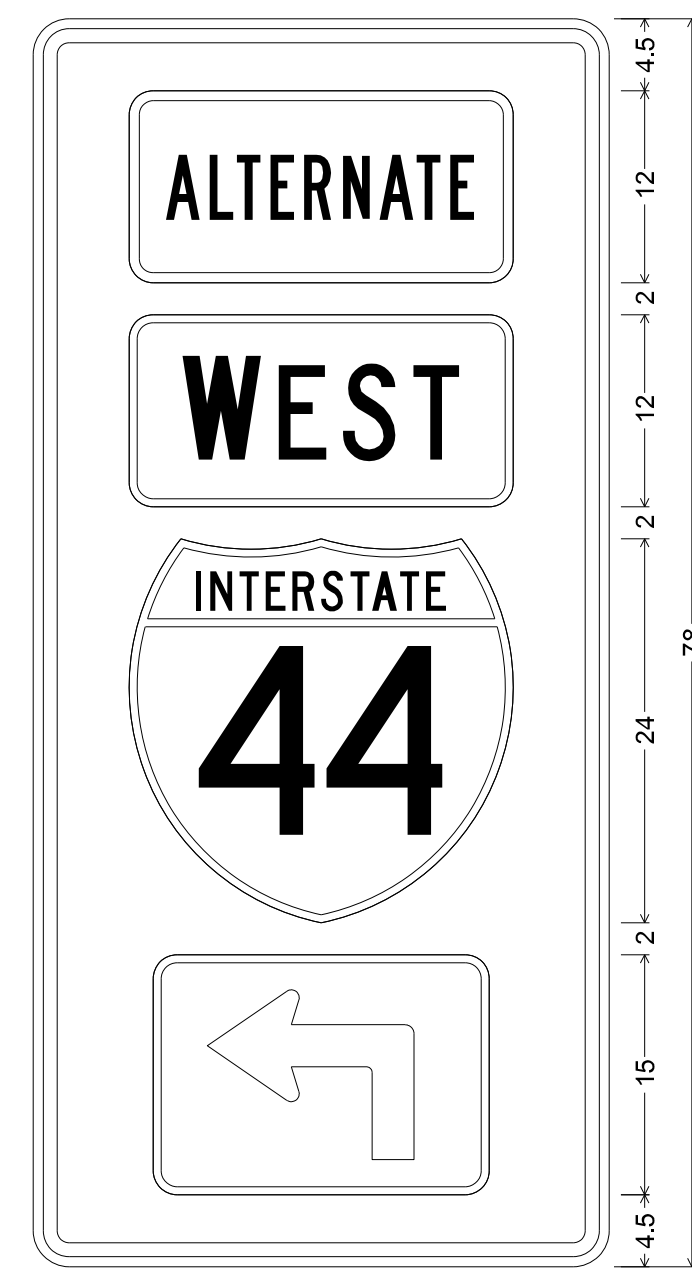
MO4-11-36 SHF-FLAT SHEET FLUORESCENT;
2.250" Radius, 0.875" Border, 0.625" Indent, Black on, Orange;
Interstate 44 12.000" C;
Table of letter and object lefts

6,000
6,000
6,000
6,000
7,500



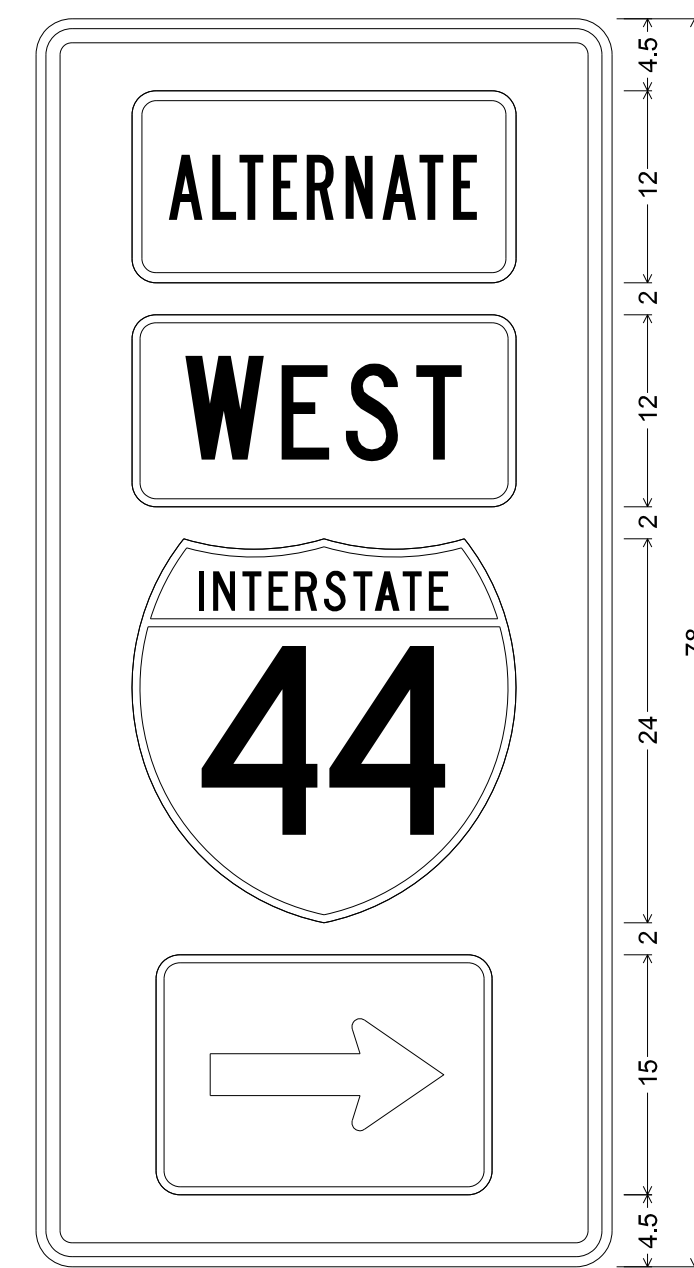
MO4-11-36 SHF-FLAT SHEET FLUORESCENT;
2.250" Radius, 0.875" Border, 0.625" Indent, Black on, Orange;
Interstate 44 12.000" C;
Table of letter and object lefts

6,000
6,000
6,000
6,000
7,500



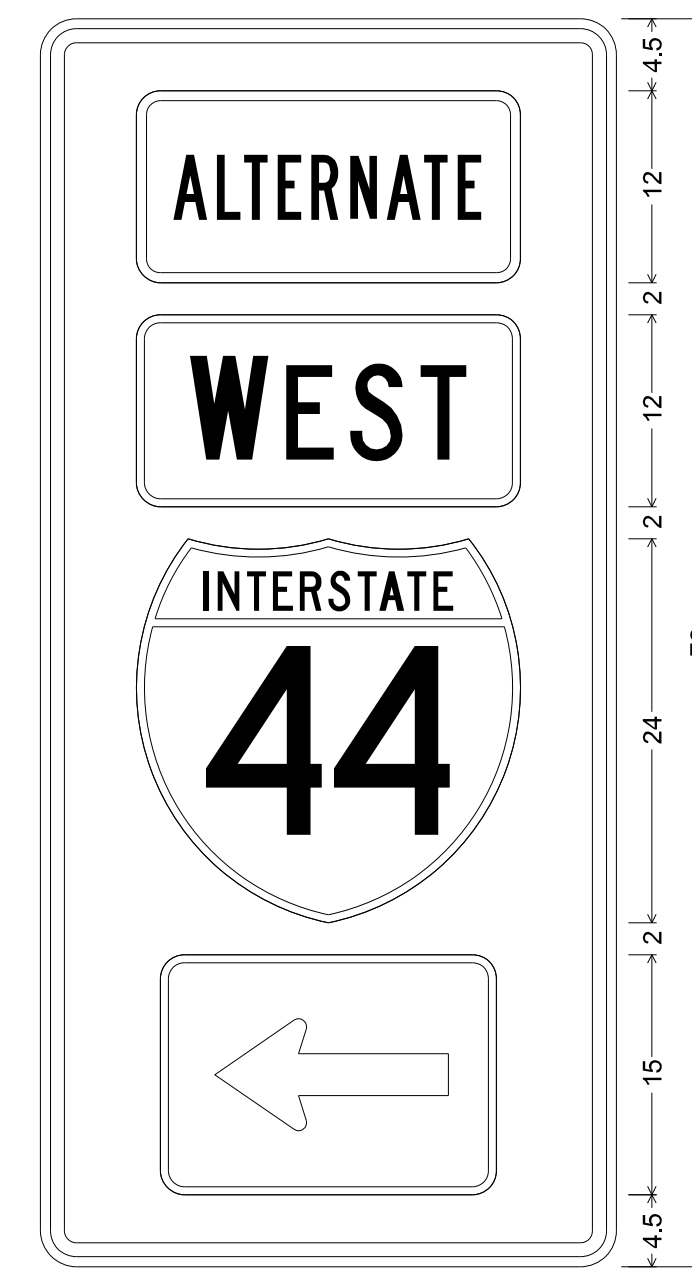
MO4-11-36 SHF-FLAT SHEET FLUORESCENT;
2.250" Radius, 0.875" Border, 0.625" Indent, Black on, Orange;
Interstate 44 12.000" C;
Table of letter and object lefts

6,000
6,000
6,000
6,000
7,500



MO4-11-36 SHF-FLAT SHEET FLUORESCENT;
2.250" Radius, 0.875" Border, 0.625" Indent, Black on, Orange;
Interstate 44 12.000" C;
Table of letter and object lefts

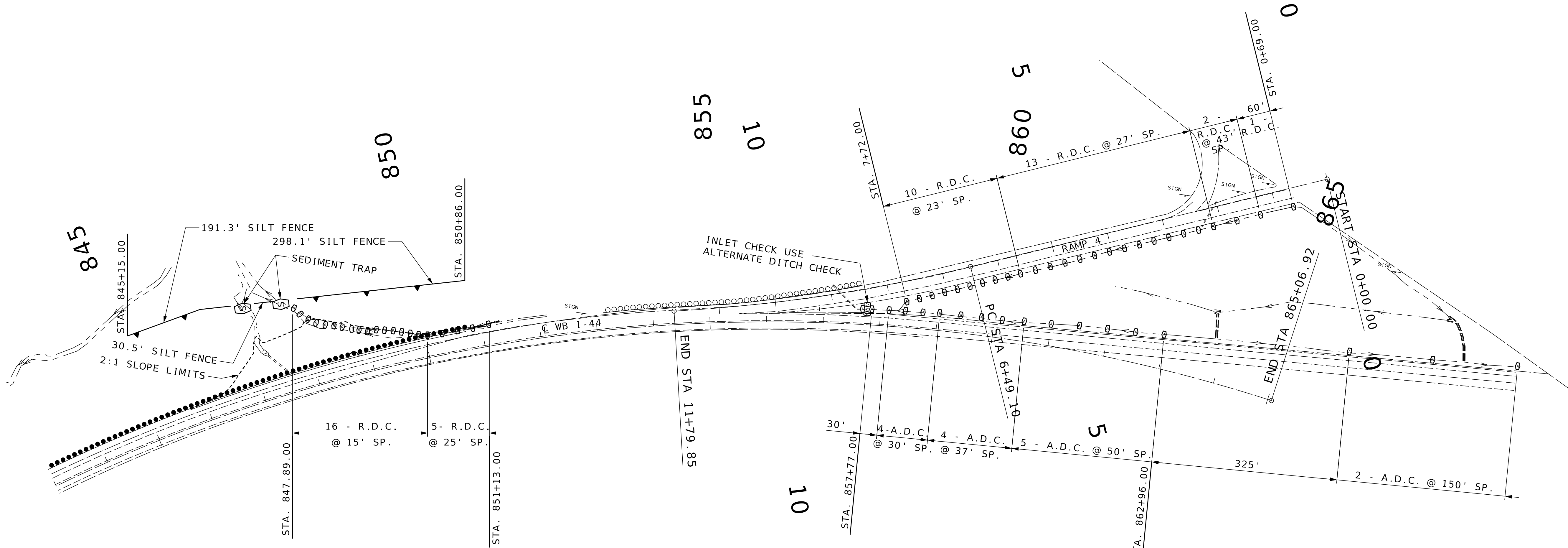
6,000
6,000
6,000
6,000
7,500



MO4-11-36 SHF-FLAT SHEET FLUORESCENT;
2.250" Radius, 0.875" Border, 0.625" Indent, Black on, Orange;
Interstate 44 12.000" C;
Table of letter and object lefts

6,000
6,000
6,000
6,000
7,500

TRAFFIC CONTROL
SPECIAL SIGN DETAILS
SHEET 13 OF 13



845

850

855

10

860

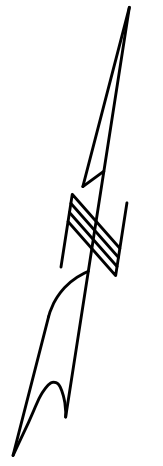
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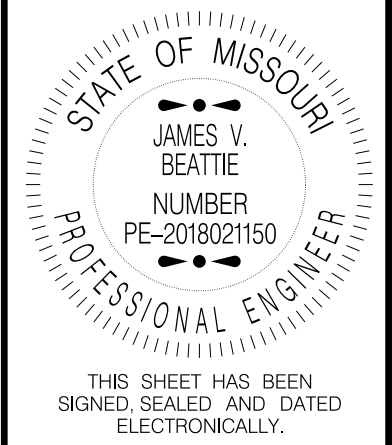
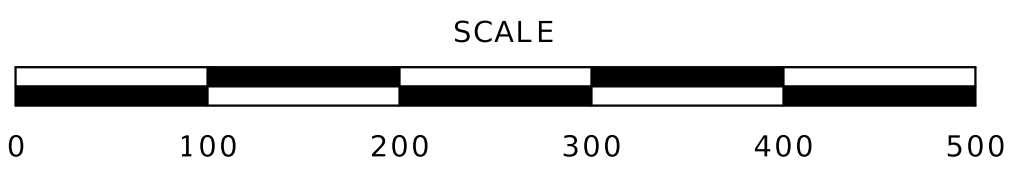
0

865

0



TEMPORARY EROSION CONTROL LEGEND	
	ROCK DITCH CHECK (R.D.C.)
	ALTERNATE DITCH CHECK (A.D.C.)
	SEDIMENT TRAP
	SILT FENCE

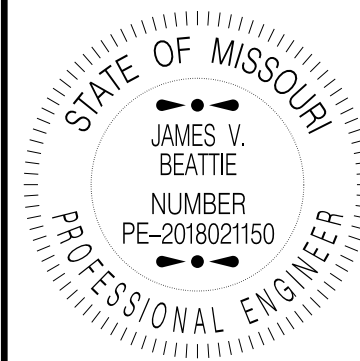


DATE PREPARED 8/12/2024	
ROUTE I-44	STATE MO
DISTRICT CD	SHEET NO. 23
COUNTY PULASKI	
JOB NO. JCD0112	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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



THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED
8/12/2024

ROUTE STATE
I-44 MO

DISTRICT SHEET NO.
CD 24

COUNTY
PULASKI

JOB NO.
JCD0112

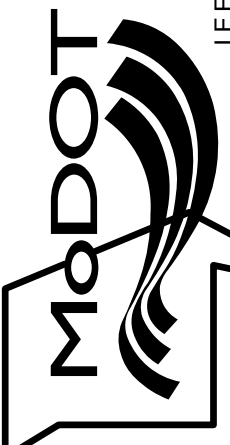
CONTRACT ID.

PROJECT NO.

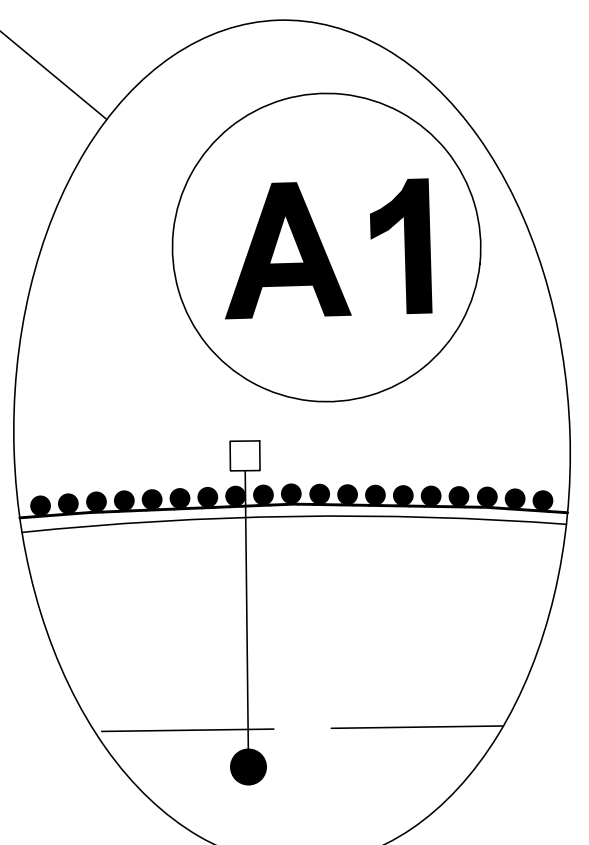
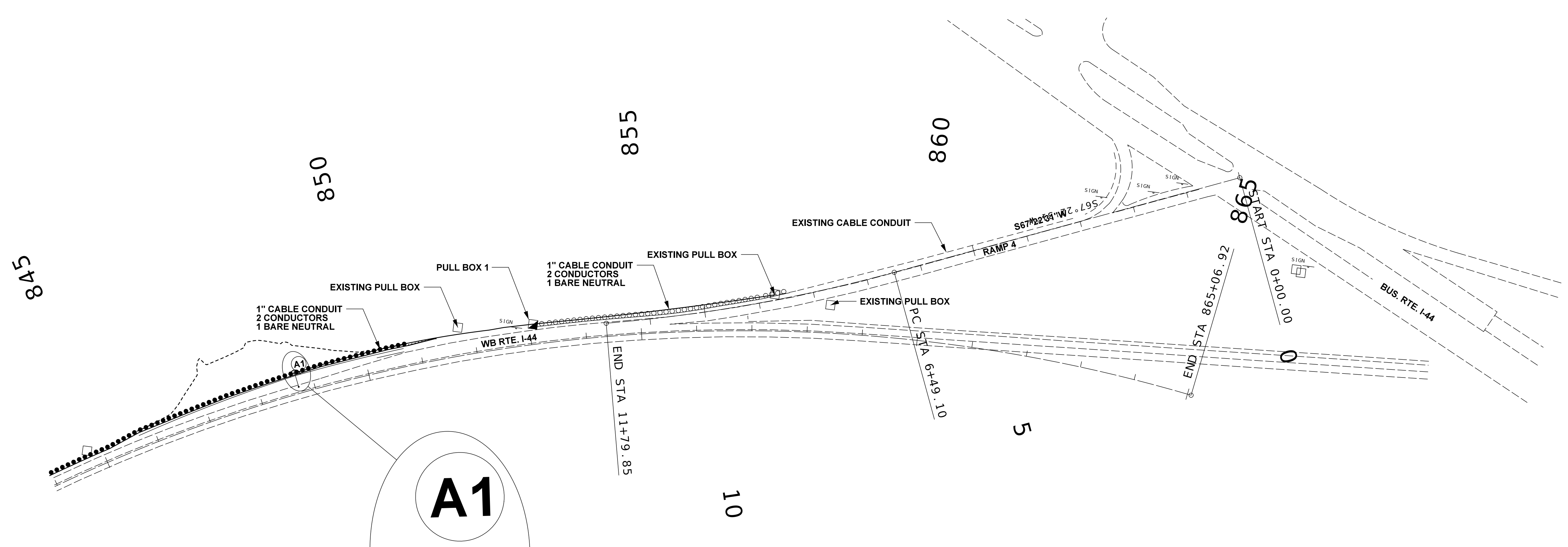
BRIDGE NO.

DATE	DESCRIPTION

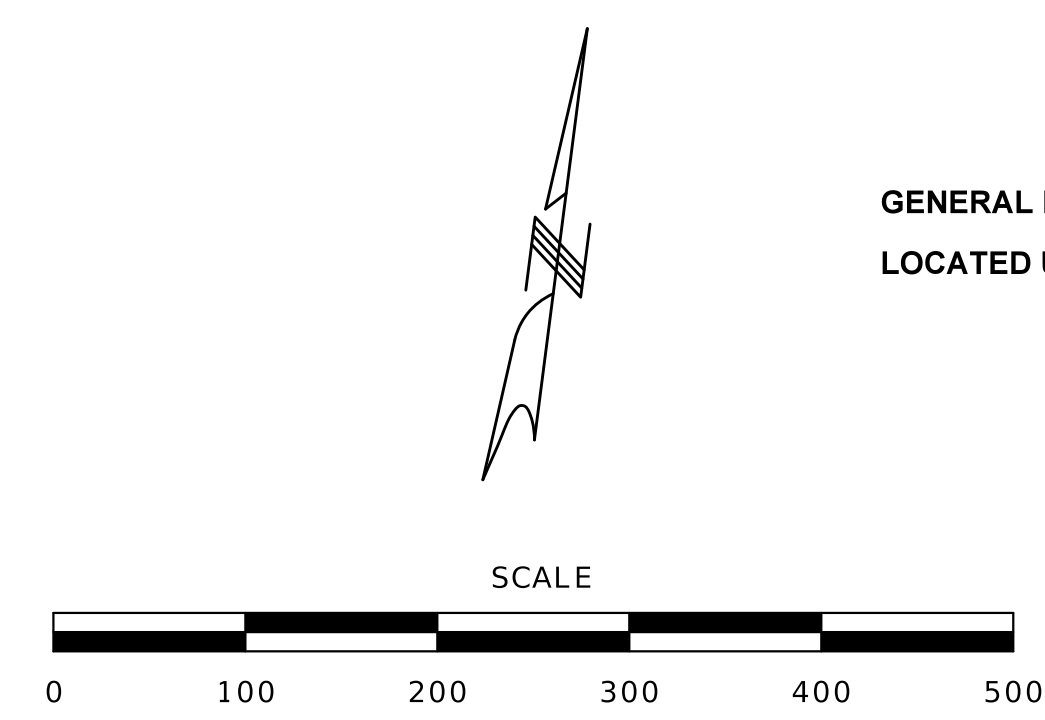
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION



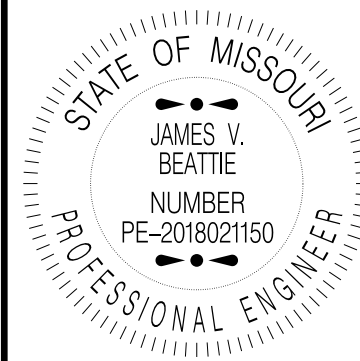
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)



GENERAL NOTES:
LOCATED UTILITIES TO THE BEST OF OUR ABILITIES.



LIGHTING LEGEND			
	CONTROLLER, LIGHTING		LED-A LUMINAIRE
	CONTROLLER, LIGHTING (EXISTING)		LED-B LUMINAIRE
	WOOD POST		LED-C LUMINAIRE
	POWER SUPPLY		POWER SOURCE
	JUNCTION BOX		PULL BOX (EXISTING)
	PULL BOX CONCRETE TYPE 1		PULL BOX CONCRETE TYPE 2
	PULL BOX PREFORMED TYPE 1		PULL BOX PREFORMED TYPE 2
	CONDUIT, RIGID (TRENCH)		CONDUIT, RIGID (PUSHED)
	CONDUIT, RIGID (MEDIAN)		CONDUIT, RIGID (BRIDGE)
	CONDUIT, RIGID (EXISTING)		CABLE-CONDUIT (EXISTING)
			CABLE-CONDUIT



THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED
8/12/2024

ROUTE STATE
1-44 MO

DISTRICT SHEET NO.
CD 25

COUNTY
PULASKI

JOB NO.
JCD0112

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

LIGHTING - CONDUIT AND CABLE

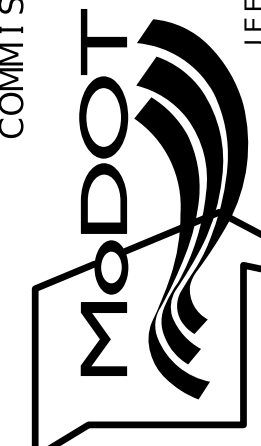
STATION FROM	TO	SYSTEM/CIRCUIT	CENTER TO CENTER DISTANCE (FT.)	1" CABLE CONDUIT 2c-#8 AWG (FT.)	TRENCHING TYPE I (FT.)	POLE & BRACKET CABLE 1c-#10 AWG (FT.)	REMARKS
TIE IN POINT	P.B. 1		444	475	442		SPLICE INTO EXISTING CABLE-CONDUIT CIRCUIT IN EXISTING PULL BOX AT END OF RAMP.
	P.B. 1	A1	444	475	442	120	
			TOTAL	950	884	120	
			USE	950	884	120	

LIGHTING EQUIPMENT

POLE NO.	PULL BOX NO.	STATION	OFFSET FT.	LOCATION	POLE FOUNDATION 45' MOUNT HT. EA.	POLE 45' TYPE AT EA.	15' BRACKET ARM EA.	LED - B EA.	PREFORMED PULL BOX CL. 1 TYPE 2 DRAIN EA.	REMARKS
		8+69.33	10.42 RT.	RAMP 4						EXISTING PULL BOX
	1	853+07.09	36.23 RT.	WB ROUTE I-44					1	
A1	1	848+71.00	37.45 RT.	WB ROUTE I-44	1	1	1	1		
				TOTAL	1	1	1	1	1	
				USE	1	1	1	1	1	

DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION



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

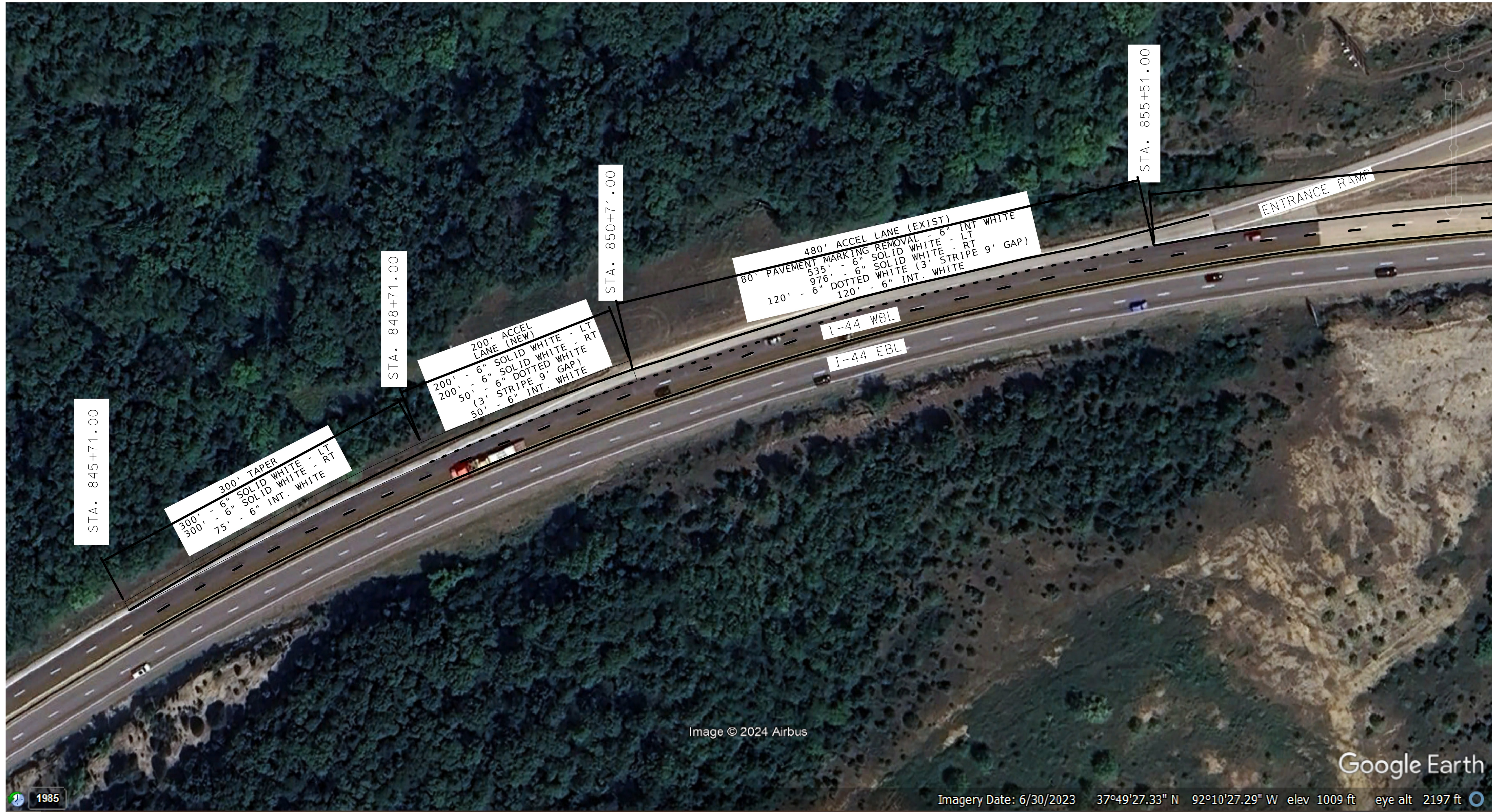


Image © 2024 Airbus

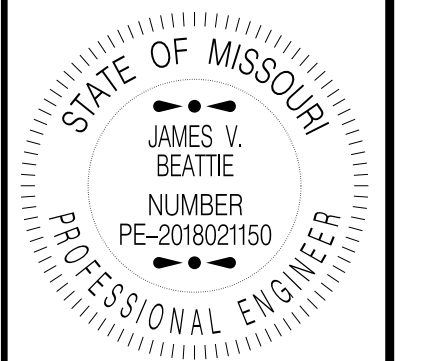
Google Earth

Imagery Date: 6/30/2023 37°49'27.33" N 92°10'27.29" W elev 1009 ft eye alt 2197 ft

PAVEMENT MARKING PLAN VIEW – ENTRANCE RAMP
SEE STD. PLAN 620.00 FOR DETAILS

NOT TO SCALE

PAVEMENT MARKING SHEET
 STRIPING LIMITS AT RAMP
 SHEET 1 OF 2



THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED
8/12/2024

ROUTE STATE
I - 44 MO
 DISTRICT SHEET NO.
CD 26

COUNTY
PULASKI
 JOB NO.
JCD0112
 CONTRACT ID.

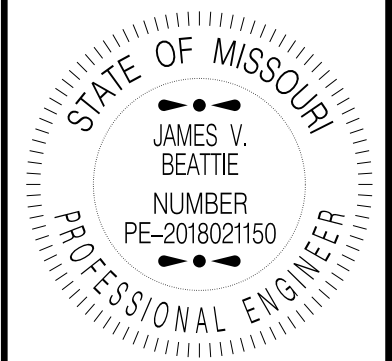
PROJECT NO.

BRIDGE NO.

DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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



THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED
8/12/2024

ROUTE	STATE
I - 44	MO
DISTRICT	SHEET NO.
CD	27

COUNTY
PULASKI

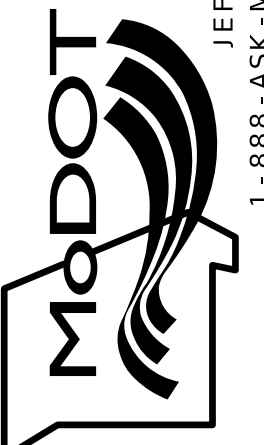
JOB NO.
JCD0112

CONTRACT ID.

PROJECT NO.
BRIDGE NO.

DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION



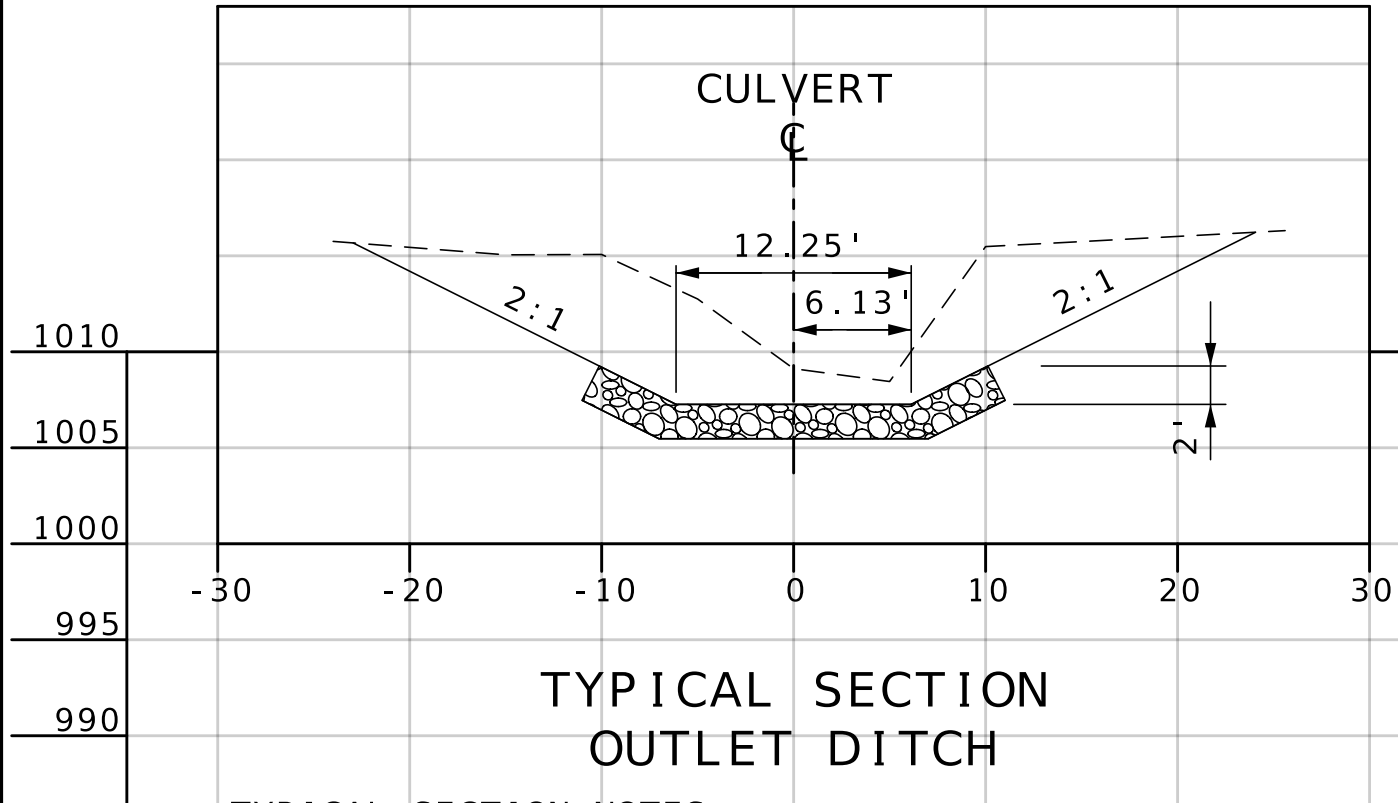
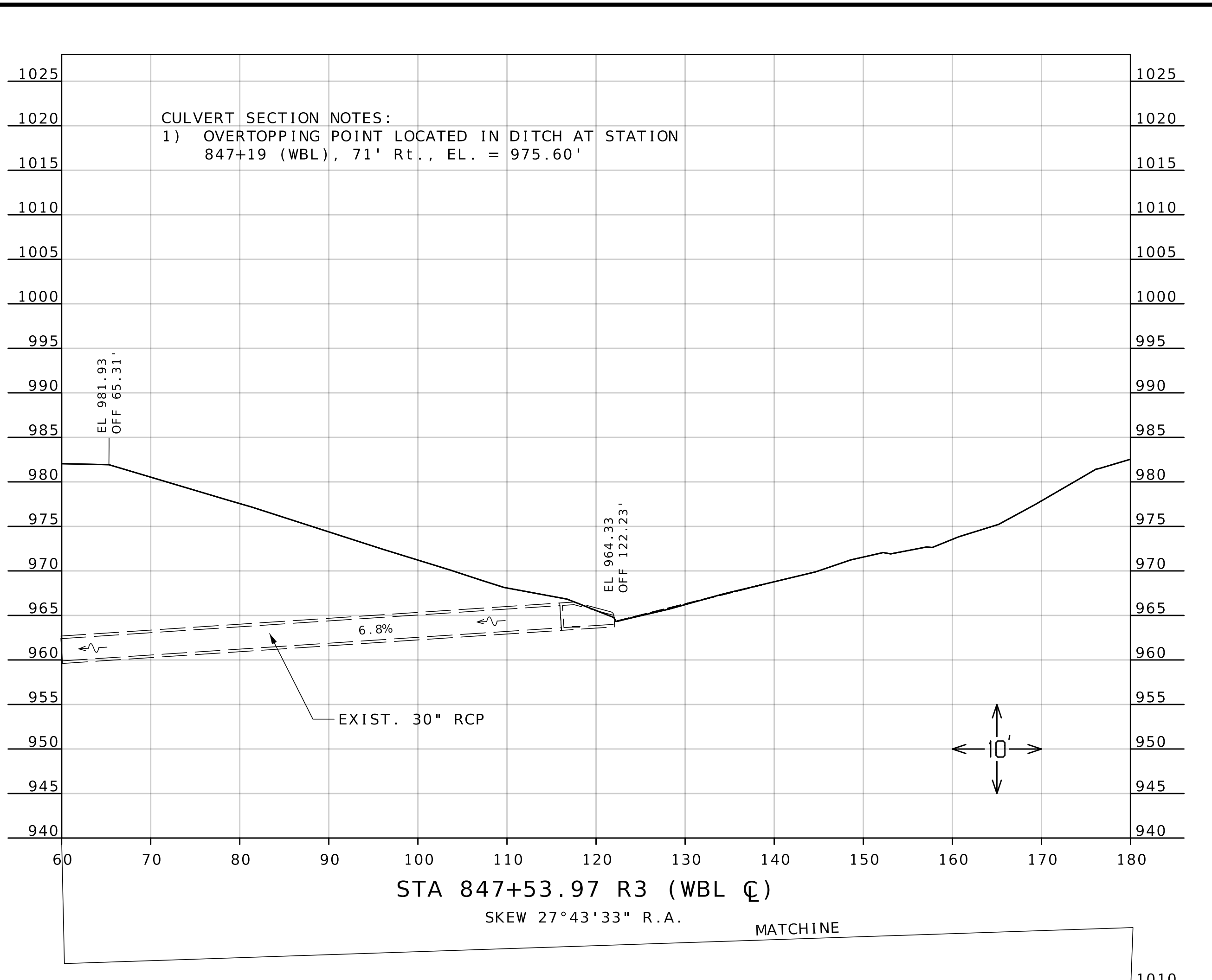
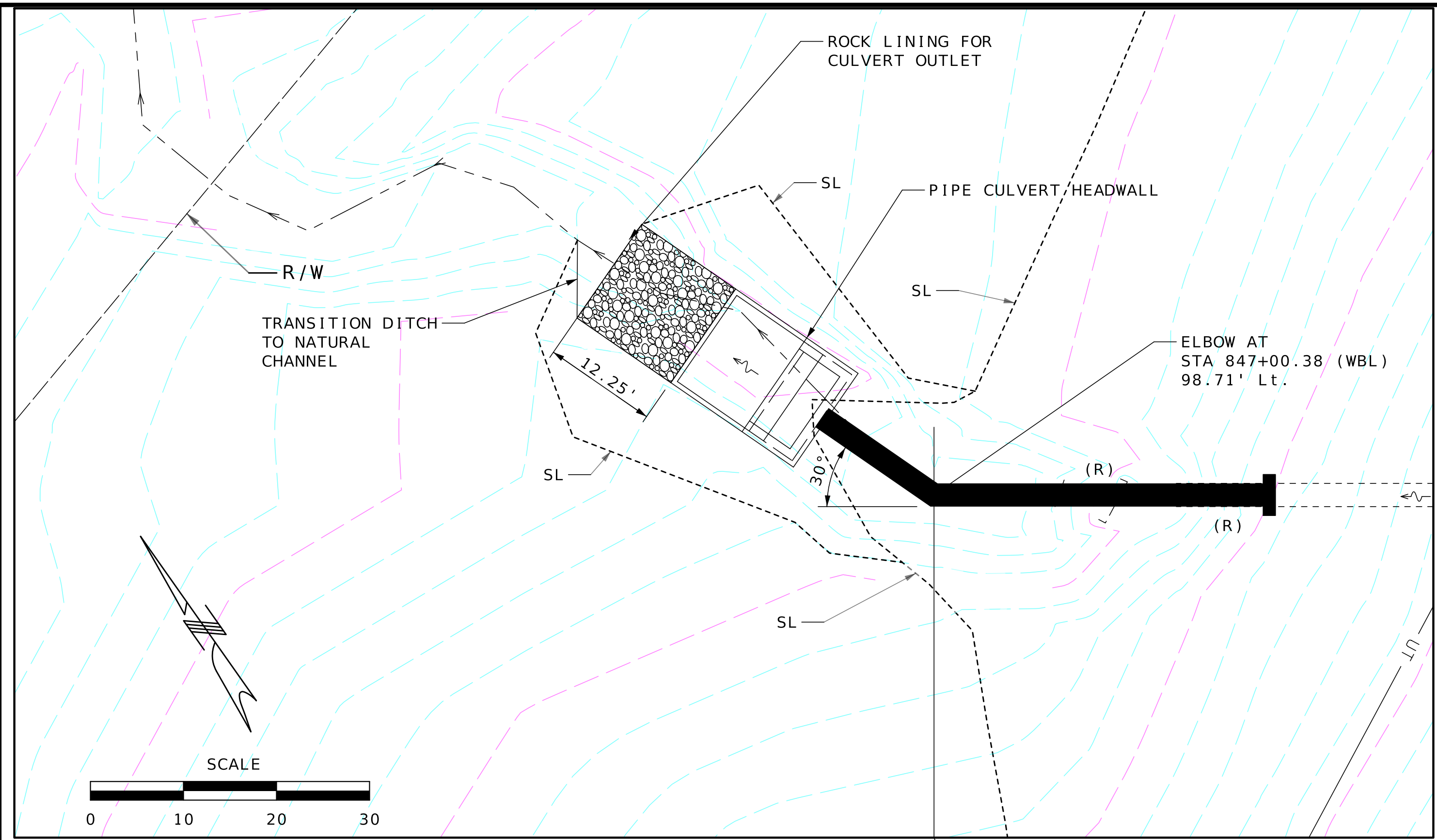
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)



PAVEMENT MARKING PLAN VIEW - ENTRANCE RAMP
SEE STD. PLAN 620.00 FOR DETAILS

NOT TO SCALE

PAVEMENT MARKING SHEET
STRIPING LIMITS AT RAMP
SHEET 2 OF 2

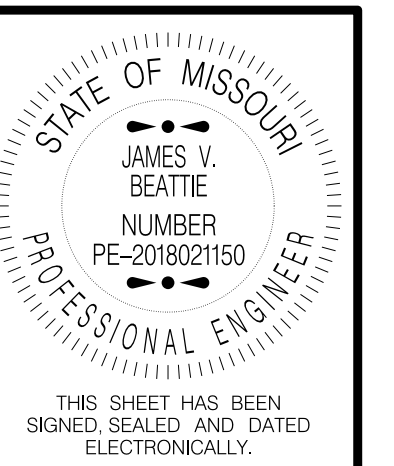
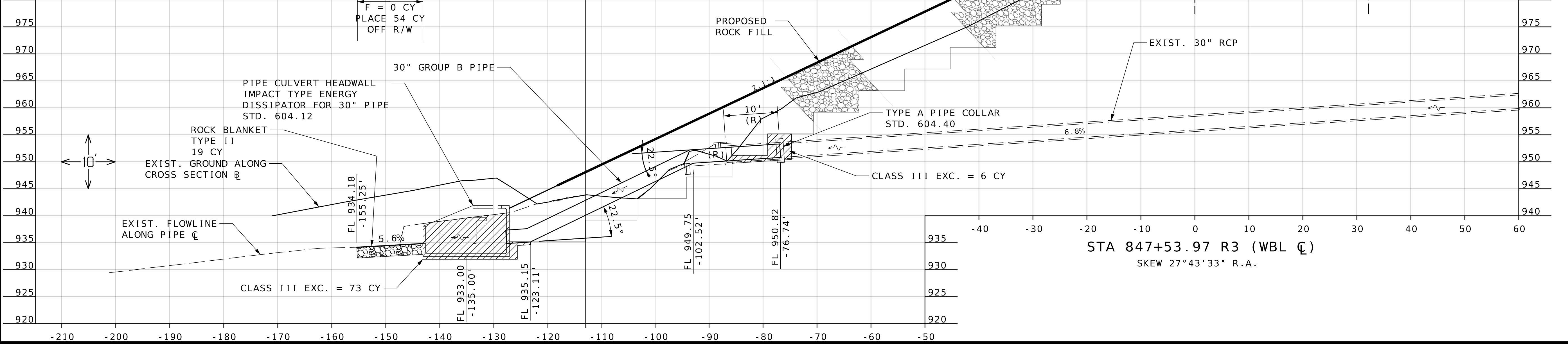


PIPE NOTE:
STA 847.53.97 (WBL ϕ)
SK 27°43'33" R.A.
EXT. Lt. 54'x 30" GROUP B PIPE
TYPE A PIPE COLLAR - STD. 604.40 - 1 ea.
ELBOWS AT 22.5° - 2 ea.
ELBOW AT 30° - 1 ea.

PIPE CULVERT HEADWALL FOR 30" PIPE - STD. 604.12
CLASS B CONCRETE = 13.2 cy.
REINFORCING STEEL = 1170 lbs.
TYPE II ROCK BLANKET = 19 cy.
CLASS 3 EXCAVATION = 79 cy.

TYPICAL SECTION NOTES:
1) WARP BACKSLOPES TO EXISTING GROUND AT END OF DITCH

C = 54 CY
F = 0 CY
PLACE 54 CY OFF R/W



DATE PREPARED 8/13/2024

ROUTE I-44	STATE MO
DISTRICT CD	SHEET NO. 28

COUNTY PULASKI

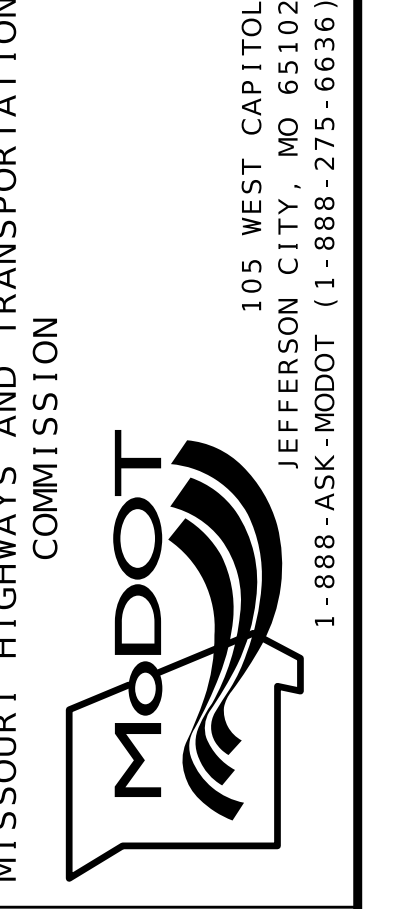
JOB NO. JCD0112

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DATE	DESCRIPTION



CULVERT SECTION
STA 847+53.97 (WBL ϕ)
SHEET 1 OF 1