

DESIGN DESIGNATION

ROUTE D

A.A.D.T. - 2025 = 1938
 A.A.D.T. - 2035 = 2687
 D.H.V. = 8.6%
 T = 4.9%
 V = 55 M.P.H.
 D = 50%

FUNCT. CLASS. - MAJOR COLLECTOR

ROUTE E

A.A.D.T. - 2022 = 1497
 A.A.D.T. - 2035 = 2194
 D.H.V. = 13.2%
 T = 11.2%
 V = 55 M.P.H.
 D = 50%

FUNCT. CLASS. - MINOR/MAJOR COLLECTOR

NORMAL ACCESS HIGHWAY

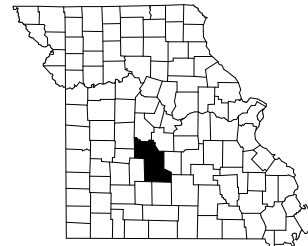
THIS SHALL BE A NORMAL ACCESS HIGHWAY. ABUTTER'S RIGHTS IN OR OF DIRECT ACCESS TO, FROM, OR ACROSS THE HIGHWAY OR ITS RIGHT-OF-WAY SHALL ATTACH OR BELONG TO ANY PROPERTY ABUTTING ON SAID SECTION OF HIGHWAY, OR TO ANY PERSON MERELY BECAUSE OF OWNERSHIP OF SUCH ABUTTING PROPERTY.

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

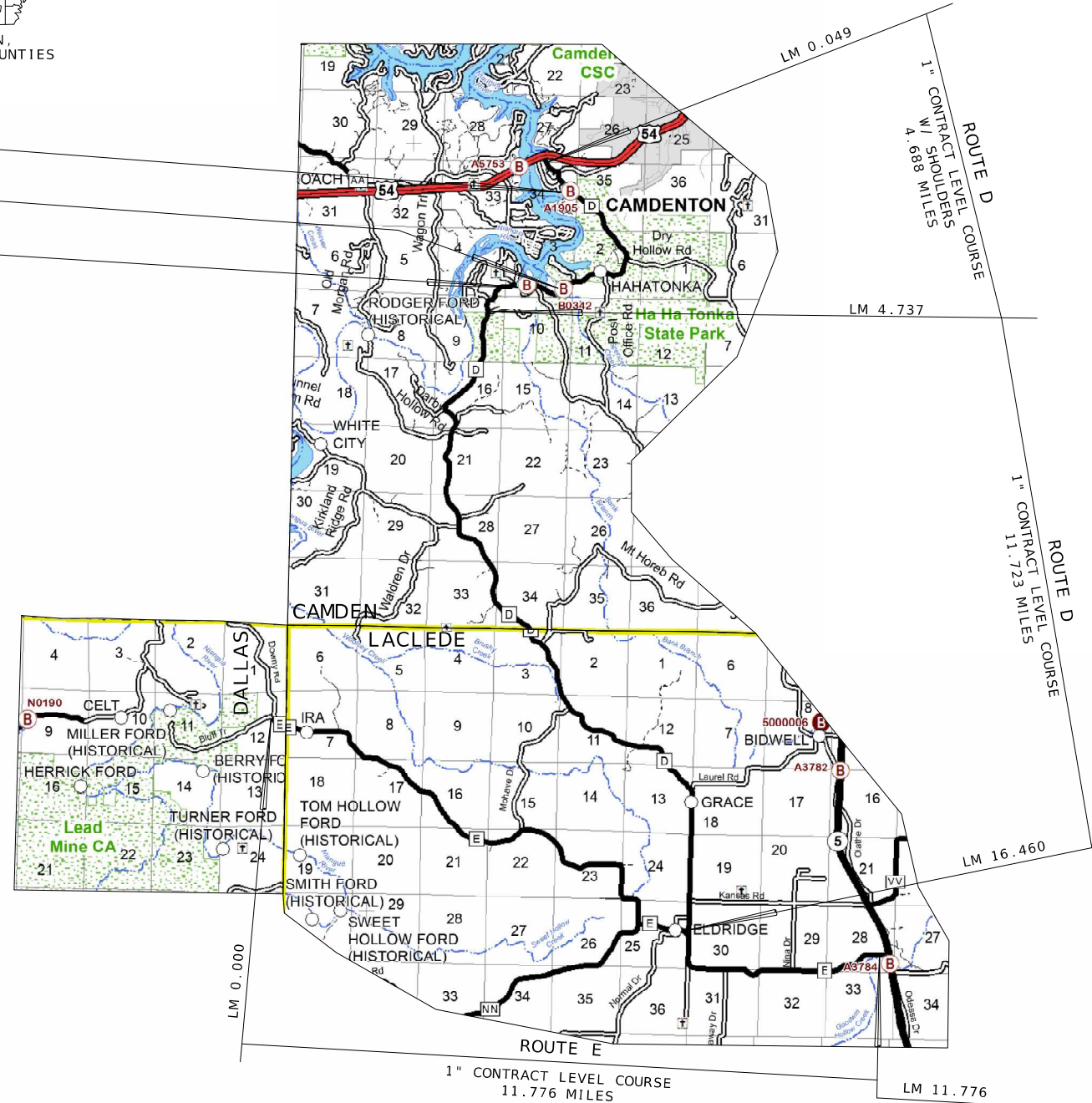
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION CONSTRUCTION PLANS FOR PROPOSED STATE HIGHWAY CAMDEN AND LACLEDE COUNTIES



KEY MAP
LOCATION OF CAMDEN, LACLEDE, AND DALLAS COUNTIES

EXCEPTIONS:

- BRIDGE A1905
LM 0.831 TO LM 0.921
- BRIDGE B0342
LM 3.281 TO LM 3.311
- BRIDGE A8468
LM 3.875 TO LM 3.924



INDEX OF SHEETS

DESCRIPTION	SHEET NUMBER
TITLE SHEET	1
TYPICAL SECTIONS (TS) (3 SHEETS)	2
QUANTITIES (QU) (7 SHEETS)	3
PLAN-PROFILE (PP)	4-9
REFERENCE POINTS (RP)	10-11
SPECIAL SHEETS (SS)	12-18
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EROSION CONTROL SHEETS (EC)	25-29
CULVERT SECTIONS (CS)	30
BRIDGE DRAWINGS (B)	
B0342	1-3
CROSS SECTIONS (XS)	1-36

LENGTH OF PROJECT

ROUTE D			
BEGINNING	L.M.	0.049	
END	L.M.	16.460	
APPARENT LENGTH		86,650.1	FEET
EQUATIONS AND EXCEPTIONS			
BRIDGE A1905	L.M.	-0.090	
BRIDGE B0342	L.M.	-0.030	
BRIDGE A8468	L.M.	-0.049	
TOTAL CORRECTIONS		-892.320	FEET
ROUTE E			
BEGINNING	L.M.	0.000	
END	L.M.	11.776	
APPARENT LENGTH		62,177.3	FEET
EQUATIONS AND EXCEPTIONS			
NONE			
TOTAL CORRECTIONS		0.000	FEET
NET LENGTH OF PROJECT		147,935.1	FEET
STATE LENGTH		28.018	MILES

FOR INFORMATION ONLY
ESTIMATED DISTURBED ACRES +1 ACRES

DATE PREPARED: 7/23/2024

ROUTE: D/E STATE: MO

DISTRICT: CD SHEET NO.: 1

COUNTY: CAMDEN/LACLEDE

JOB NO.: J553336

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)

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.



DATE PREPARED
6/27/2024

ROUTE STATE
D/E MO

DISTRICT SHEET NO.
CD 2

COUNTY
CAMDEN/LACLEDE

JOB NO.
J553336

CONTRACT ID.

PROJECT NO.

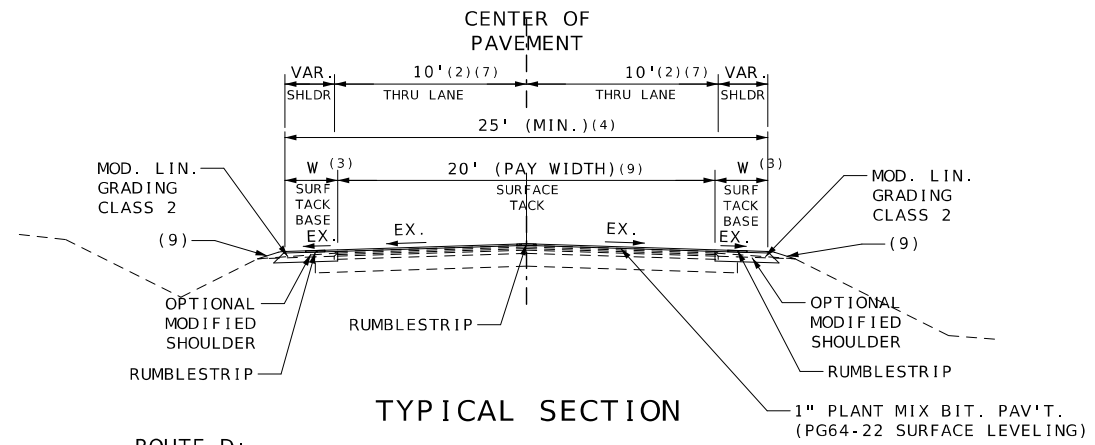
BRIDGE NO.

DESCRIPTION	DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

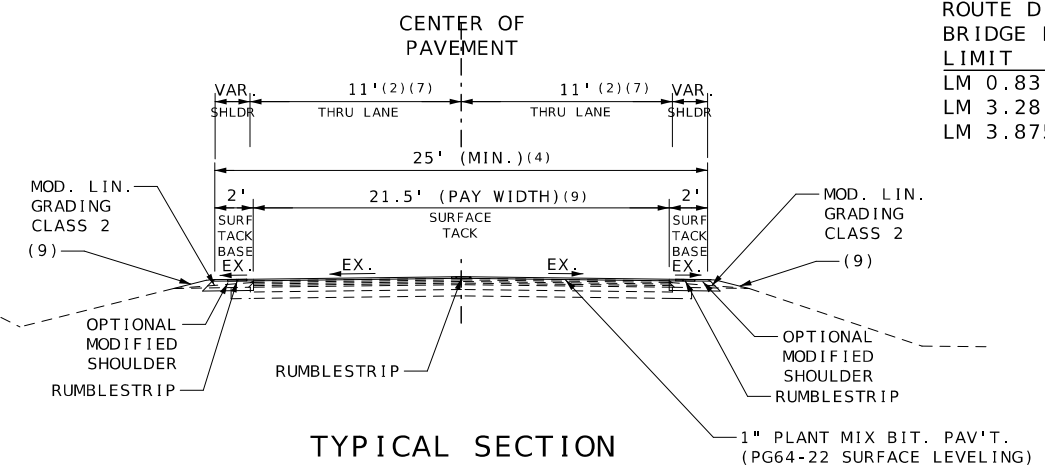
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

TYPICAL SECTION SHEET 1 OF 3

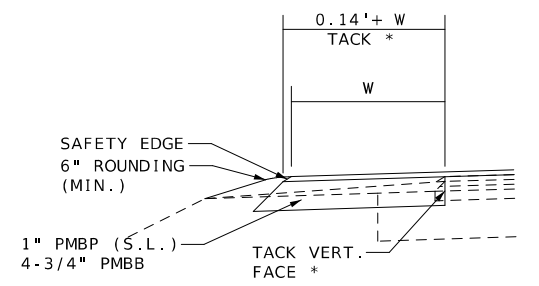


ROUTE D:
SURFACING AND SHOULDERING

LOGMILE / STATION		COMMENT
FROM	TO	
0.49	0.111	
0.378	0.633	
0.633	0.722	STA 14+40 TO STA 19+20 NEAR MINNOWBROOK RD.
0.722	0.831	
0.921	2.347	
2.347	2.376	STA 106+00 TO STA 107+55 NEAR POST OFFICE RD.
2.427	2.482	STA 110+25 TO STA 113+15.73 NEAR POST OFFICE RD.
2.726	2.763	STA 126+06.10 TO STA 128+00 NEAR POST OFFICE RD.
2.763	3.013	
3.013	3.086	STA 141+35 TO STA 145+20 NEAR TONKA SPRING RD
3.086	3.281	
3.311	3.875	
3.924	4.124	
4.124	4.445	STA 201+00 TO STA 218+00 NEAR PEACEFUL VALLEY RD.
4.445	4.737	

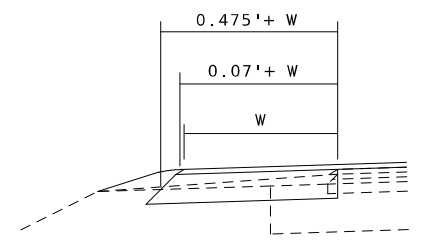


ROUTE D:
SURFACING AND SHOULDERING
LM 0.111 TO LM 0.378



DETAIL
OPTIONAL MODIFIED SHOULDER
HOT MIX ASPHALT OPTION

* TACK FOR VERTICAL FACE AND BETWEEN LIFTS IS INCIDENTAL NO DIRECT PAY



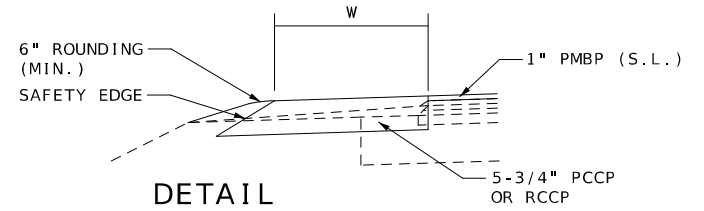
DETAIL
OPTIONAL MODIFIED SHOULDER
HOT MIX ASPHALT OPTION
PAY LIMITS

NOTES:

- (1) MAINTAIN A MINIMUM OF 10' BETWEEN EDGES OF RUMBLESTRIPS. ADJUST EDGELINE RUMBLESTRIP LOCATION AS NECESSARY TO KEEP TO THIS SPECIFICATION.
- (2) MINIMUM SHOULDER WIDTH = 2' OUTSIDE THE EDGE OF PAVEMENT.
- (3) MAINTAIN A MINIMUM 25' BETWEEN EDGES OF SHOULDERS. ADJUST LEFT AND RIGHT SHOULDER EDGES EQUALLY TO KEEP TO THIS SPECIFICATION.
- (4) PLACE THE LEVEL COURSE ONE PASS PER LANE. THERE IS NO SUPERELEVATION CORRECTION.
- (5) DO NOT SHOULDER AT LOCATIONS WHERE THERE IS EXISTING ASPHALT OR CONCRETE. SEE SPECIAL SHEETS.
- (6) TRANSITION DISTANCE = 55' FOR LANE WIDTH TRANSITIONING FROM 10' TO 11' AND FROM 11' TO 10'.
- (7) ROUTE E BEGINS IN DALLAS COUNTY.
- (8) THE WIDTH IN THE FIELD IS MORE OR LESS THE WIDTH INDICATED IN THE PLANS.
- (9) 2:1 (MAX.) SLOPE OR FLATTER, MODIFY EXISTING DITCH AS NEEDED TO MAINTAIN DRAINAGE FLOW AND CAPACITY WITHIN R/W LIMITS (TYP.).

ESTIMATE FACTORS:

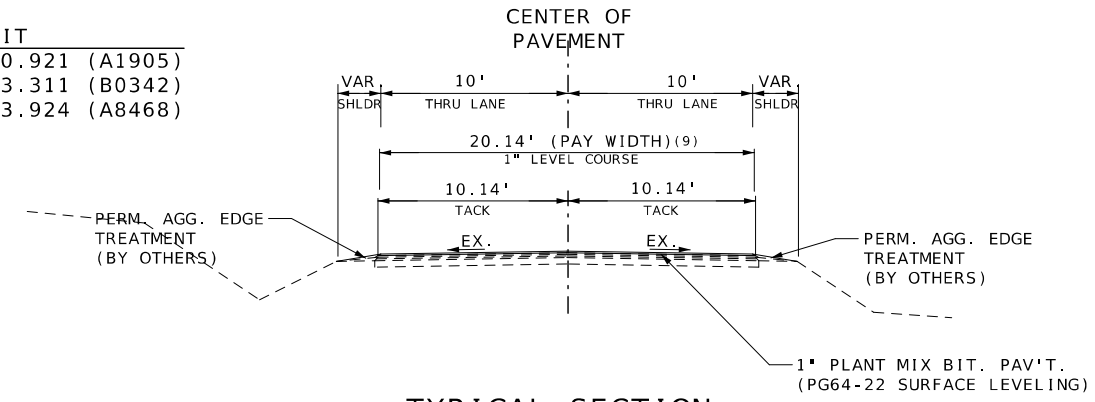
- FOR INFORMATIONAL PURPOSES ONLY
- (1) BITUMINOUS PAVEMENT MIXTURE PG64-22 (SURFACE LEVELING) = 1.987 T/cy
 - (2) BITUMINOUS BASE MIXTURE PG64-22 = 2.005 T/cy
 - (3) TACK = 0.08 gal/sy



DETAIL
OPTIONAL MODIFIED SHOULDER
PORTLAND CEMENT CONCRETE OR
ROLLER COMPACTED CONCRETE
OPTION

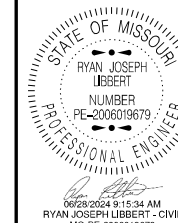
ROUTE D:
BRIDGE EXCEPTIONS:

LIMIT	TO	LIMIT
LM 0.831		LM 0.921 (A1905)
LM 3.281		LM 3.311 (B0342)
LM 3.875		LM 3.924 (A8468)



ROUTE D:
LOGMILE 2.376 TO LOGMILE 2.427 NEAR POST OFFICE RD.
(STA 107+55 TO STA 110+25 - RT D SURVEY C)
LOGMILE 4.737 TO LOGMILE 16.460

ROUTE E: (8)
LOGMILE 0.000 TO LOGMILE 11.776



DATE PREPARED
6/27/2024

ROUTE STATE
D/E MO
DISTRICT SHEET NO.
CD 2

COUNTY
CAMDEN/LACLEDE

JOB NO.
J553336
CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION

DATE

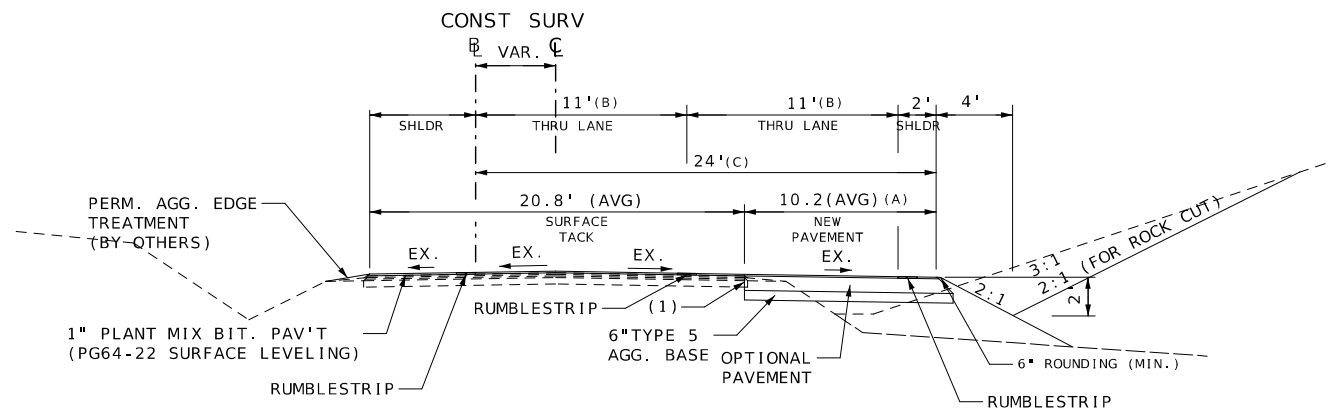
MISSOURI HIGHWAYS AND TRANSPORTATION
COMMISSION

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

TYPICAL SECTION
SHEET 2 OF 3

PAVEMENT NOTES:
OPTIONAL PAVEMENT
7" PCCP
15' JOINTS, 1-1/4 DOWELS
DESIGNED WITH 13' WIDE SLAB

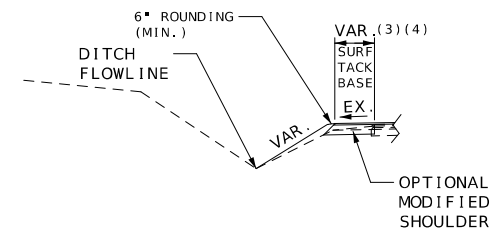
9" HMA
1" SURFACE LEVELING MIX, PG64-22
8" BITUMINOUS BASE, PG64-22



TYPICAL SECTION ON TANGENT

ROUTE D:
SURFACING AND WIDENING:

STA 10+00.00 TO STA 22+76.80 CONSTRUCTION B

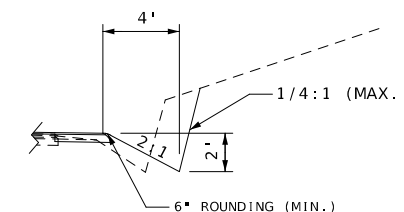


DETAIL - SHOULDERING

SHOULDERING ON LEFT

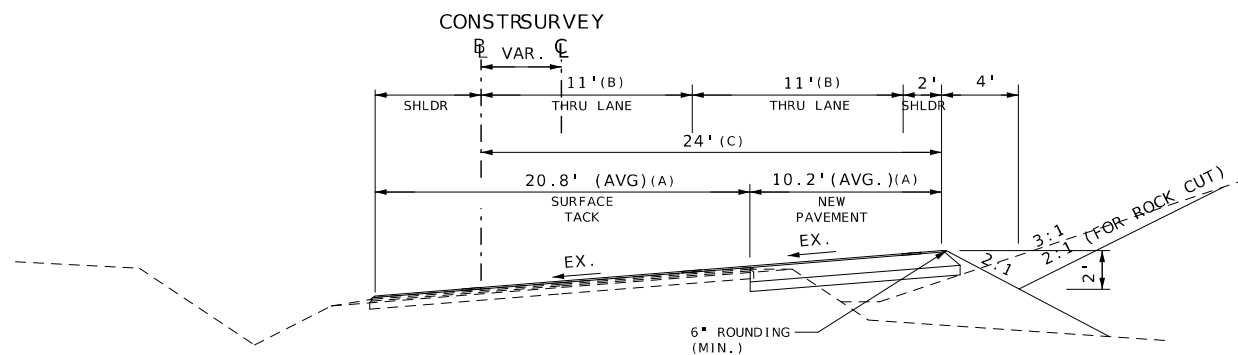
LOGMILE 2.482 TO LOGMILE 2.489
(STA 113+15.73 [C] TO STA 113+70.00 [C])
LOGMILE 2.698 TO LOGMILE 2.726
(STA 124+56.00 [C] TO STA 126+06.10 [C])

TAPERING NOTES:
(A) PAVEMENT WIDENING:
STA 10+00.00 TO STA 13+30.00
FROM 2.2'(AVG.) TO 10.2'(AVG.)
STA 19+46.80 TO STA 22+76.80
FROM 10.2'(AVG.) TO 2.2'(AVG.)
(B) LANE WIDTH:
FROM ST 10+00.00 TO 10+30.00
FROM 10' TO 11'
FROM ST 22+46.80 TO 22+76.80
FROM 11' TO 10'
(C) NEW E.O.P. OFFSET:
FROM ST 10+00.00 TO 10+30.00
FROM 23' TO 24'
FROM ST 22+46.80 TO 22+76.80
FROM 24' TO 23'



DETAIL - MODIFIED LINEAR GRADING IN ROCK

VARIOUS LOCATIONS ALONG SHOULDERING
SECTION OF ROUTE D

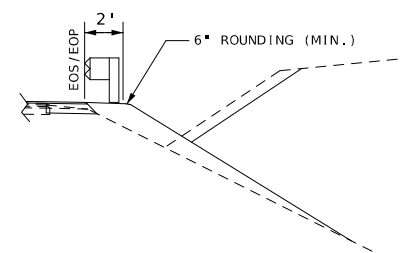


TYPICAL SECTION ON CURVE

ROUTE D:
SURFACING AND WIDENING:

STA 10+00.00 TO STA 22+76.80 CONSTRUCTION B

- NOTES:
- (1) SEE NOTE (1) ON TYPICAL SECTION SHEET 1
 - (2) SEE NOTE (2) ON TYPICAL SECTION SHEET 1
 - (3) SEE NOTE (3) ON TYPICAL SECTION SHEET 1
 - (4) SEE NOTE (4) ON TYPICAL SECTION SHEET 1
 - (5) SEE NOTE (5) ON TYPICAL SECTION SHEET 1
 - (6) SEE NOTE (6) ON TYPICAL SECTION SHEET 1
 - (7) SAWCUT CONSTRUCTION JOINT ALONG EDGE OF EXISTING PAVEMENT TO PROVIDE A VERTICAL EDGE.



DETAIL - GUARDRAIL WIDENING

SEE TABLE ON LEFT

ROUTE D (POST OFFICE SECTION):
LIMITS FOR GUARDRAIL WIDENING ON SLOPES

STATION		ALIGNMENT	COMMENT
FROM	TO		
107+19.00	107+34.00	SURV. C.L.	TAPER G.R. WIDENING ON LEFT
107+34.00	107+55.00	SURV. C.L.	ON LEFT, SEE STAND. 606.50 - LAT. POST PLACEMENT
110+25.00	112+75.00	SURV. C.L.	ON LEFT, SEE STAND. 606.50 - LAT. POST PLACEMENT
112+75.00	112+90.00	SURV. C.L.	TAPER G.R. WIDENING ON LEFT
10+91.00	11+06.00	CO B.L.	TAPER G.R. WIDENING ON RIGHT
11+06.00	15+48.00	CO B.L.	ON RIGHT, SEE STAND. 606.50 - LAT. POST PLACEMENT
15+48.00	15+64.00	CO B.L.	TAPER G.R. WIDENING ON RIGHT



06/28/2024 9:15:25 AM
 RYAN JOSEPH LIBBERT - CIVIL
 MO-PE-2006019679

DATE PREPARED
 6/27/2024

ROUTE D/E	STATE MO
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DISTRICT CD	SHEET NO. 2
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COUNTY
CAMDEN/LACLEDE

JOB NO.
J5S3336

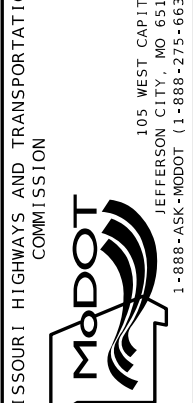
CONTRACT ID.

PROJECT NO.

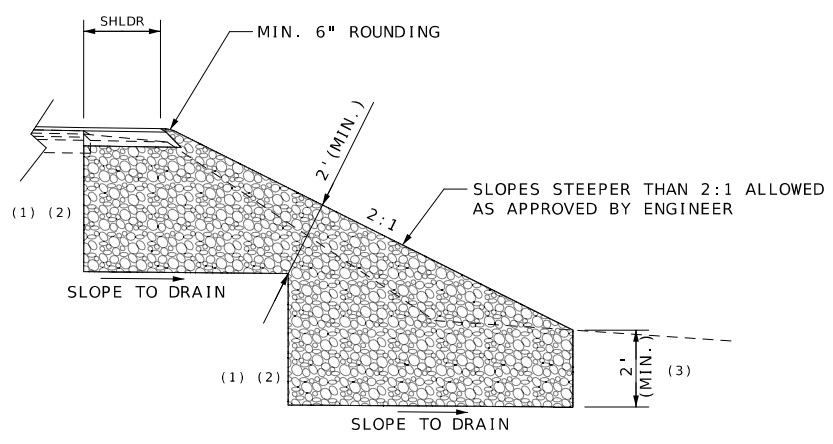
BRIDGE NO.

DATE	DESCRIPTION

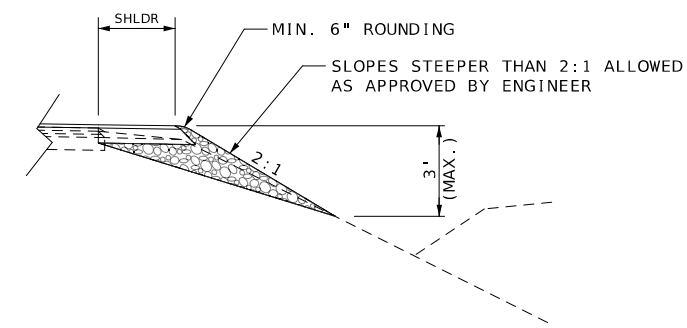
MISSOURI HIGHWAYS AND TRANSPORTATION
 COMMISSION



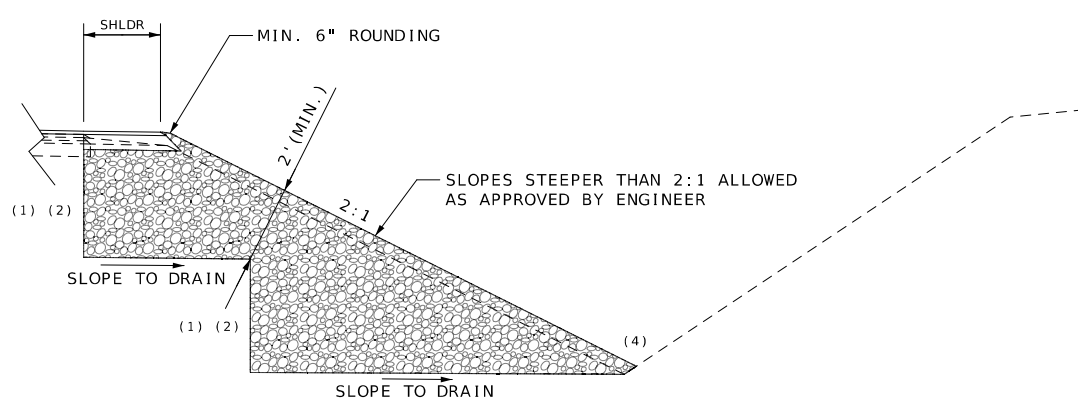
TYPICAL SECTION
 SHEET 3 OF 3



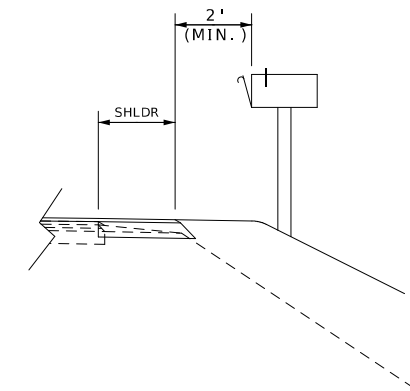
DETAIL - ROCK FILL
 BENCH OPTION



DETAIL - ROCK DITCH INSLOPE
 NO BENCH OPTION



DETAIL - ROCK DITCH INSLOPE
 BENCH OPTION



DETAIL - MAILBOX OFFSET

- NOTES:
- (1) THE NUMBER OF BENCHES WILL VARY.
 - (2) THE BENCHES SHALL BE EQUAL IN HEIGHT.
 BENCH HEIGHT = 3' (MIN.) TO 10' (MAX.)
 BENCH HEIGHT SHALL BE APPROVED BY ENGINEER.
 - (3) TOE DEPTH MAY VARY WHERE SLOPE OF EXISTING
 GROUND IS STEEPER THAN 6:1.
 TOE DEPTH SHALL BE APPROVED BY ENGINEER.
 - (4) MODIFY DITCH AS NECESSARY TO MAINTAIN FLOW
 AND CAPACITY WITHIN RIGHT OF WAY LIMITS.

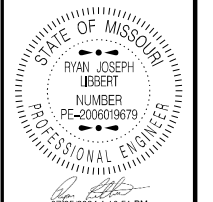
MODIFIED LINEAR GRADING						
LOGMILE		LOCATION	LENGTH (FT)	CLASS 2 (STA)	CLASS 2 IN ROCK (STA)	REMARKS
FROM	TO					
ROUTE D LEFT						
0.049	0.111	D	327.36	3.27		BEGIN SHOULDERING
0.111	0.378	D	1,409.76	14.10		
0.378	0.633	D	1,346.40	13.46		
0.722	0.831	D	575.52	5.76		APPROACH TO A1905
0.921	1.186	D	1,399.20	13.99		DEPARTURE FROM A1905
1.186	1.286	D	528.00		5.28	
1.286	2.347	D	5,602.08	56.02		
2.763	3.013	D	1,320.00	13.20		
3.086	3.281	D	1,029.60	10.30		APPROACH TO B0342
3.311	3.632	D	1,694.88	16.95		DEPARTURE FROM B0342
3.632	3.653	D	110.88		1.11	
3.653	3.869	D	1,140.48	11.40		APPROACH TO A8468
3.929	4.124	D	1,029.60	10.30		DEPARTURE FROM A8468
4.445	4.737	D	1,541.76	15.42		END SHOULDERING
0.049	4.737	SUBTRACTIONS	-1,217.00	-12.17	0.00	
			SUBTOTAL	172.00	6.39	
ROUTE D RIGHT						
0.049	0.111	D	327.36	3.27		BEGIN SHOULDERING
0.111	0.389	D	1,467.84	14.68		
0.389	0.468	D	417.12		4.17	
0.468	0.633	D	871.20	8.71		
0.722	0.831	D	575.52	5.76		APPROACH TO A1905
0.921	2.347	D	7,529.28	75.29		DEPARTURE FROM A1905
2.763	3.013	D	1,320.00	13.20		
3.086	3.281	D	1,029.60	10.30		APPROACH TO B0342
3.311	3.869	D	2,946.24	29.46		DEPARTURE FROM B0342
3.929	4.124	D	1,029.60	10.30		APPROACH TO A8468
4.445	4.737	D	1,541.76	15.42		DEPARTURE FROM A8468
0.049	4.737	SUBTRACTIONS	-1,269.00	-12.69	0.00	
			SUBTOTAL	173.70	4.17	
			TOTAL	345.70	10.56	
			USE	345.7	10.6	

NOTES: SUBTRACTIONS INCLUDE PAVED ENTRANCES AND SIDEROADS.
GRADING FOR GUARDRAIL WHERE NEEDED.

REMOVAL OF IMPROVEMENTS							
STATION		ALIGNMENT	LENGTH (FT)	AREA (SY)	QUANTITY (EA)	DESCRIPTION	REMARKS
FROM	TO						
ROUTE D NEAR MINNOWBROOK ROAD							
16+00.00	18+00.00	D C.L.			4	CHEVRON SIGNS, U- CHANN. POSTS	ON RIGHT, SALVAGE SIGNS FOR REINSTALL. REM. POSTS
ROUTE D NEAR THE OLD POST OFFICE							
107+17.50		D C.L.			1	CRASHWORTHY E.T.	ON LEFT, NO SALVAGE
107+17.50	107+55.00	D C.L.	37.5			TYPE A GUARDRAIL	ON LEFT, NO SALVAGE
110+25.00	112+99.00	D C.L.	275			TYPE A GUARDRAIL	ON LEFT, NO SALVAGE
112+10.00		D C.L.			1	ARROW SIGN, WOOD POST	ON LEFT, SALVAGE SIGNS FOR REINSTALL. REM. POSTS
112+99.00		D C.L.			1	CRASHWORTHY E.T.	ON LEFT, NO SALVAGE
10+00.00	22+76.80	CO B.L.	1286			FULL-DEPTH SAWCUT	ON RIGHT, ALONG EXIST. EOP
11+05.00		CO B.L.				INTERSECTION AHEAD SIGN, U- CHANN. POSTS	ON RIGHT, SALVAGE SIGN FOR REINSTALL. REM. POST
13+20.00		CO B.L.				WINDING ROAD SIGN W/ SPEED PLAQUE, U- CHANN. POSTS	ON RIGHT, SALVAGE SIGNS FOR REINSTALL. REM. POST
13+20.00		CO B.L.				PARABOLIC MIRROR	ON RIGHT, SALVAGE FOR REINSTALL. REM. POST
16+57.84		CO B.L.		26		FULL-DEPTH SAWCUT	ON RIGHT, TRANS. CUT ON DRIVEWAY
16+57.84		CO B.L.	80			EXIST. 15"x 80' CMP	ON RIGHT, UNDER DRIVEWAY
17+50.00		CO B.L.			2	PARK TRAIL CROSSING SIGN, WOOD POST	ON LEFT/RIGHT, SALVAGE SIGNS FOR REINSTALL. REM. POST
18+32.08		CO B.L.		32		FULL-DEPTH SAWCUT	ON RIGHT, TRANS. CUT ON DRIVEWAY
ROUTE D NEAR PEACEFUL VALLEY ROAD							
203+00.00		D C.L.			2	ARROW SIGN, U- CHANN. POSTS	ON LEFT, SALVAGE SIGNS FOR REINSTALL. REM. POSTS
204+10.00		D C.L.			1	SCHOOL STOP AHEAD SIGN, U- CHANN. POSTS	ON LEFT, SALVAGE SIGNS FOR REINSTALL. REM. POSTS
206+90.00		D C.L.			2	WINDING ROAD SIGN W/ DISTANCE PLAQUE, U- CHANN. POSTS	ON RIGHT, SALVAGE SIGNS FOR REINSTALL. REM. POST
216+75.00		D C.L.			2	LEFT CURVE SIGN W/ SPEED PLAQUE, U- CHANN. POSTS	ON RIGHT, SALVAGE SIGNS FOR REINSTALL. REM. POST
ROUTE D REMAINING SHOULDERING SECTION							
0.049	4.737	D C.L.			3	PSST POST AND CONCRETE FOOTING	SALVAGE SIGNS FOR REINSTALL. REM. POSTS
0.049	4.737	D C.L.			32	U-CHANNEL POST	SALVAGE SIGNS FOR REINSTALL. REM. POSTS
0.049	4.737	D C.L.			11	WOOD POST	SALVAGE SIGNS FOR REINSTALL. REM. POSTS
3.241	3.331	D C.L.	175		4	GUARDRAIL, RUBRAIL, 4 C.E.T.	BRIDGE B0342
3.858	4.005	D C.L.	200		4	GUARDRAIL, 4 C.E.T.	BRIDGE A8468
					1	LUMP SUM	SEE SIGN RELOCATION TABLE FOR DETAILS OF SIGN SAVAGE AND INSTALLATION ON NEW POSTS

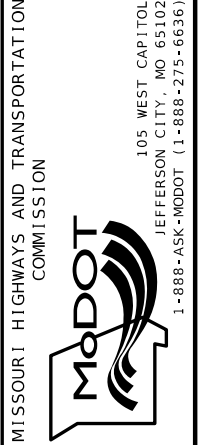
VOLUMETRIC GRADING						
STATION		LOCATION	UNCLASSIFIED EXCAVATION (cy)	COMPACTING EMBANKMENT (cy)	EMBANKMENT IN PLACE (cy)	REMARKS
FROM	TO					
ROUTE D NEAR MINNOWBROOK ROAD						
14+40.00	19+20.00	D	39	128	0	OBTAIN 95 CY FROM ROCK FILL EXC.
16+00.00	16+55.00	D Lt.	52	0	0	ADD. GRADING FROM ROCK FILL EXC.
14+92.00		D Rt.	1	0	0	ADD. GRADING FROM ROCK FILL EXC.
15+20.00		D Rt.	1	0	0	ADD. GRADING FROM ROCK FILL EXC.
15+42.00		D Rt.	1	0	0	ADD. GRADING FROM ROCK FILL EXC.
15+75.00		D Rt.	1	0	0	ADD. GRADING FROM ROCK FILL EXC.
16+17.00	17+00.00	D Rt.	113	0	0	ADD. GRADING FROM ROCK FILL EXC.
		SUBTOTAL	208	128	0	PLACE 45 CY OFF R/W
ROUTE D NEAR POST OFFICE ROAD						
106+00.00	113+15.73	D	420	171	0	ROADWAY SHOULDERING
10+00.00	22+76.80	CO B.L.	555	312	0	ROADWAY WIDENING
10+00.00	10+50.00	CO B.L.	134	0	0	ADD. GRADING FROM ROCK FILL EXC.
126+06.10	128+00.00	D	20	17	0	ROADWAY SHOULDERING
		SUBTOTAL	1129	500	0	PLACE 477 CY OFF R/W
ROUTE D NEAR TONKA SPRING ROAD						
141+35.00	145+20.00	D	63	53	26	ROADWAY SHOULDERING
		SUBTOTAL	63	53	26	
ROUTE D NEAR PEACEFUL VALLEY ROAD						
201+00.00	218+00.00	D	146	462	0	OBTAIN 339 CY FROM ROCK FILL EXC.
201+25.00	202+50.00	D Lt.	286	0	0	ADD. GRADING FROM ROCK FILL EXC.
209+80.00	218+00.00	D Rt.	842	0	0	ADD. GRADING FROM ROCK FILL EXC.
		SUBTOTAL	1274	462	0	PLACE 616 CY OFF R/W
		TOTAL	2674	1143	26	
		USE	2674	1143	26	

MOBILIZATION 1 LUMP SUM	CONTRACTOR SURVEYING AND STAKING 1 LUMP SUM
ADDITIONAL MOBILIZATION FOR SEEDING 4 EACH	



DATE PREPARED
7/23/2024
ROUTE D/E STATE MO
DISTRICT CD SHEET NO. 3
COUNTY CAMDEN/LACLEDE
JOB NO. J553336
CONTRACT ID.
PROJECT NO.
BRIDGE NO.

DATE	DESCRIPTION



SEEDING AND MULCHING							
LOGMILE / STATION		LOCATION	LENGTH (MILE)	SEEDING		MULCHING (AC)	REMARKS
FROM	TO			COOL SEASON (AC)	TEMP. (AC)		
ROUTE D NEAR MINNOWBROOK ROAD							
14+40.00	19+20.00	D Lt.	0.1	0.070	0.014	0.070	
14+40.00	19+20.00	D Rt.	0.1	0.020	0.004	0.020	
			SUBTOTAL	0.090	0.018	0.090	
ROUTE D NEAR POST OFFICE ROAD							
106+00.00	128+00.00	D Lt.	0.4	0.130	0.026	0.130	INCLUDES NEW CONSTRUCTION
106+00.00	128+00.00	D Rt.	0.4	0.500	0.100	0.500	INCLUDES NEW CONSTRUCTION
			SUBTOTAL	0.630	0.126	0.630	
ROUTE D NEAR TONKA SPRING ROAD							
141+35.00	145+20.00	D Lt.	0.1	0.040	0.008	0.040	
141+35.00	145+20.00	D Rt.	0.1	0.030	0.006	0.030	
			SUBTOTAL	0.070	0.014	0.070	
ROUTE D NEAR PEACEFUL VALLEY ROAD							
201+00.00	218+00.00	D Lt.	0.3	0.017	0.003	0.017	
201+00.00	218+00.00	D Rt.	0.3	0.090	0.018	0.090	
			SUBTOTAL	0.107	0.021	0.107	
REMAINING ROUTE D							
0.049	4.737	D Lt.	4.69	7.11	1.42	7.11	WIDTH ASSUMED 10' FOR ESTIMATE
0.049	4.737	D Rt.	5.25	7.95	1.59	7.95	WIDTH ASSUMED 10' FOR ESTIMATE
0.049	4.737	SUBTRACTION Lt.	-0.23	-0.28	-0.06	-0.28	WIDTH ASSUMED 10' FOR ESTIMATE
0.049	4.737	SUBTRACTION Rt.	-0.24	-0.29	-0.06	-0.29	WIDTH ASSUMED 10' FOR ESTIMATE
			SUBTOTAL	14.490	2.890	14.490	
			TOTAL	15.4	3.1	18.5	
			USE	15.4	3.1	18.5	

NOTE: TEMP. SEEDING ESTIMATED AT 20% OF COOL SEASON.
SUBTRACTIONS EXCLUDE ENTRANCES AND SIDEROADS FROM QUANTITY.

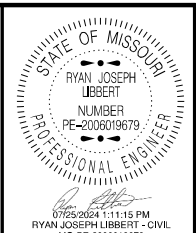
ROCK FILL					
LOGMILE / STATION		LOCATION	FURNISHING CY	PLACING CY	REMARKS
FROM	TO				
ROUTE D NEAR MINNOWBROOK ROAD					
16+00.00	16+55.00	D Lt.	52	52	
14+92.00		D Rt.	1	1	BETWEEN DRIVEWAYS
15+20.00		D Rt.	1	1	BETWEEN DRIVEWAYS
15+42.00		D Rt.	1	1	BETWEEN DRIVEWAYS
15+75.00		D Rt.	1	1	BETWEEN DRIVEWAYS
16+17.00	17+00.00	D Rt.	113	113	
			SUBTOTAL	169	
ROUTE D NEAR POST OFFICE ROAD					
10+00.00	10+50.00	CO B.L. Lt.	134	134	
			SUBTOTAL	134	
ROUTE D NEAR PEACEFUL VALLEY ROAD					
201+25.00	202+50.00	D Lt.	286	286	
209+80.00	218+00.00	D Rt.	842	842	
			SUBTOTAL	1128	
REMAINING ROUTE D					
0.049	4.737	D	700	700	EST. AT 50% OF THE SUM OF THE ABOVE SUBTOTALS
			SUBTOTAL	700	
			TOTAL	2131	
			USE	2131	

CLEARING AND GRUBBING					
LOGMILE / STATION		LOCATION	LENGTH (MILE)	QUANTITY (AC)	REMARKS
FROM	TO				
ROUTE D NEAR POST OFFICE ROAD					
106+00.00	128+00.00	D Lt.	0.4	0.030	INCLUDES NEW CONSTRUCTION
106+00.00	128+00.00	D Rt.	0.4	0.130	INCLUDES NEW CONSTRUCTION
			SUBTOTAL	0.160	
ROUTE D NEAR PEACEFUL VALLEY ROAD					
201+00.00	218+00.00	D Lt.	0.3	0.040	
201+00.00	218+00.00	D Rt.	0.3	0.050	
			SUBTOTAL	0.090	
REMAINING ROUTE D					
0.049	4.737	D Lt.	4.69	0.19	ASSUME 0.04 AC PER MILE
0.049	4.737	D Rt.	4.69	0.19	ASSUME 0.04 AC PER MILE
			SUBTOTAL	0.380	
			TOTAL	0.6	
			USE	1	

MODIFIED COLDMILLING (DEPTH TRANSITIONS)						
LOG MILE	LOG MILE	LOCATION	LENGTH (FT)	AVG. WIDTH (FT)	MOD. COLDMILLING (SY)	REMARKS
ROUTE D						
0.049	0.058	D	50	20	111.1	JOINT NEAR CHURCH ENTRANCE
0.822	0.831	D	50	20	111.1	BACK OF BRIDGE A1905
0.921	0.930	D	50	20	111.1	AHEAD OF BRIDGE A1905
3.272	3.281	D	50	20	111.1	BACK OF BRIDGE B0342
3.310	3.319	D	50	20	111.1	AHEAD OF BRIDGE B0342
3.870	3.879	D	50	20	122.3	BACK OF BRIDGE A8468
3.920	3.929	D	50	20	122.3	AHEAD OF BRIDGE A8468
					SUBTOTAL	800.1
ROUTE E						
7.417		E Rt.	10	VAR	25.0	NN INT. COLDMILL TO JOINT ON NN
11.767	11.776	E	50	20	111.1	JOINT NEAR MO 5 INTERSECTION
					SUBTOTAL	136.1
					TOTAL	936.2
					USE	936

GRAVEL (A) OR CRUSHED STONE (B)						
LOG MILE		LOCATION	NO. ENTR. (EA)	QUANTITY		REMARKS
FROM	TO			UNIT (T/EA)	TOTAL (T)	
ROUTE D						
0.049	16.460	D	14	10.0	140.0	PUBLIC ROADS
0.049	16.460	D	127	5.0	635.0	PRIVATE DRIVEWAYS OR ROADS
					SUBTOTAL	775.0
ROUTE E						
0.000		E	1	10.0	10.0	BEGIN PAVING
0.000	11.776	E	9	10.0	90.0	PUBLIC ROADS
0.000	11.776	E	105	5.0	525.0	PRIVATE DRIVEWAYS OR ROADS
7.903	8.006	E	1	47.7	47.7	ELDRIDGE RIGHT PARKING BETWEEN NORMAL AND NIX ROADS
7.936	8.008	E	1	32.9	32.9	ELDRIDGE LEFT DRIVEWAY APPROACHING NAVY ROAD
					SUBTOTAL	705.6
					PROJECT SUBTOTAL	1480.60
					PERCENT OF IRREGULARITIES	0.25
					ADDITIONAL QUANTITY DUE TO SURFACE IRREGULARITIES	370.15
					TOTAL	1850.75
					USE	1851

NOTE: IRREGULARITIES INCLUDE EXISTING DRIVEWAY OR SIDEROAD RUTTING AND SLUMPING AT EDGE OF MAINLINE PAVEMENT.



DATE PREPARED
7/23/2024

ROUTE D/E
STATE MO
DISTRICT CD
SHEET NO. 3

COUNTY
CAMDEN/LACLEDE

JOB NO.
J553336

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DATE	DESCRIPTION



BITUMINOUS PAVEMENT MIXTURE PG64-22 (SURFACE LEVELING)

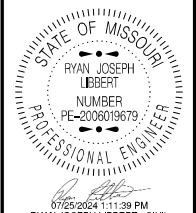
LOGMILE/STATION		LOCATION	LENGTH (ft)	SURFACE LEVELING			TACK			REMARKS	
FROM	TO			WIDTH (ft)	AREA (sy)	DEPTH (in)	QUANTITY (T)	WIDTH (ft)	AREA (sy)		QUANTITY (gal)
ROUTE D											
0.049	0.111	D	327.36	20.00	727.5	1	40.2	20.00	727.47	58.2	START TO S/O CHURCH ENTRANCE
0.111	0.378	D	1409.76	21.50	3367.8	1	185.9	21.50	3367.76	269.4	S/O CHURCH ENTR. TO BUMPER HILL RD.
0.363		D	107.00	4.00	47.6	1	2.6	4.00	47.60	3.8	ON LEFT; BUMPER HILL RD. INTERSECTION
0.363		D	50.00	4.00	22.2	1	1.2	4.00	22.20	1.8	ON RIGHT; BUMPER HILL RD. INTERSECTION
0.378	0.633	D	1346.40	20.00	2992.0	1	165.1	20.00	2992.00	239.4	BUMPER HILL RD. TO MINNOWBROOK RD.
14+40.00	19+20.00	D	480.00	20.00	1066.7	1	58.9	20.00	1066.67	85.3	SECTION NEAR MINNOWBROOK ROAD
0.722	0.831	D	575.52	20.00	1278.9	1	70.6	20.00	1278.93	102.3	MINNOWBROOK RD. TO N/O A1905
0.921	2.347	D	7529.28	20.00	16731.7	1	923.5	20.00	16731.73	1338.5	S/O A1905 TO N/O POST OFFICE RD.
106+00.00	113+15.73	D	715.73	20.00	1590.5	1	87.8	20.00	1590.51	127.2	S/O A1905 TO N/O POST OFFICE RD.
10+00.00	22+76.80	CO BL	1276.80	20.80	2950.8	1	162.9	20.80	2950.83	236.1	S/O A1905 TO N/O POST OFFICE RD.
126+06.10	128+00.00	D	193.90	20.00	430.9	1	23.8	20.00	430.89	34.5	S/O A1905 TO N/O POST OFFICE RD.
2.763	3.013	D	1320.00	20.00	2933.3	1	161.9	20.00	2933.33	234.7	S/O A1905 TO N/O POST OFFICE RD.
141+35.00	145+20.00	D	385.00	20.00	855.6	1	47.2	20.00	855.56	68.4	S/O A1905 TO N/O POST OFFICE RD.
3.086	3.281	D	1029.60	20.00	2288.0	1	126.3	20.00	2288.00	183.0	S/O POST OFFICE RD. TO BRIDGE B0342
3.311	3.879	D	2999.04	20.00	6664.5	1	367.8	20.00	6664.53	533.2	BRIDGE B0342 TO BRIDGE A8468
3.920	4.737	D	4313.76	20.00	9586.1	1	529.1	20.00	9586.13	766.9	BRIDGE A8468 TO BRUSH ARBOR RD.
4.737	16.460	D	61897.44	20.14	138512.7	1	7645.1	20.28	139475.56	11158.0	S/O BRUSH ARBOR RD. TO ROUTE E
16.460		D	VAR	VAR	484.3	1	26.7	VAR	484.30	38.7	ROUTE E JUNCTION
ADDITIONAL QUANTITIES DUE TO ENTRANCES											
0.049	16.460	D	20.00	2.07	4.6	0.5	1.7	2.07	4.6	0.4	BASED ON 27 PAVED ENTRANCES
							SUBTOTAL	10628.3		15479.8	
ROUTE E											
0.000	11.776	E	62177.28	20.14	139138.9	1	7679.7	20.28	140,106.1	11,208.5	
7.417		E Rt.	VAR	VAR	461.3	1	25.5	VAR	549.2	43.9	NN INT. COLDMILL TO JOINT ON NN
ADDITIONAL QUANTITIES DUE TO ENTRANCES											
0.000	11.776	E	20.00	2.07	4.6	0.5	0.6	2.07	4.6	0.4	BASED ON 9 PAVED ENTRANCES
							SUBTOTAL	7705.8		11252.8	
							PROJECT SUBTOTAL	18334.1		26732.6	
							PERCENT OF IRREGULARITIES	20%			
							ADDITIONAL QUANTITY DUE TO IRREGULARITIES	3666.8			
							TOTAL	22000.9		26732.6	
							USE	22000.9		26730.0	

NOTE: IRREGULARITIES INCLUDE RUT FILLING, EXISTING CURVE WIDENING, AND INCONSISTENCIES IN PAVEMENT WIDTH.

RUMBLE STRIPS

LOGMILE/STATION		LOCATION	BITUMINOUS CENTERLINE (STA)	OPTIONAL SHOULDER (STA)	REMARKS
FROM	TO				
ROUTE D					
0.049	0.633	D	30.84	61.68	BEGIN SHOULDERING
14+40.00	19+20.00	D	4.80	9.60	SECTION NEAR MINNOWBROOK ROAD
0.722	0.831	D	5.76	11.52	APPROACH TO A1905
0.921	2.347	D	75.29	150.58	DEPARTURE FROM A1905
106+00.00	107+55.00	D	1.55	3.10	SECTION NEAR POST OFFICE ROAD
110+25.00	113+70.00	D	3.45	6.90	SECTION NEAR POST OFFICE ROAD
10+00.00	22+76.80	CO BL	12.77	25.54	SECTION NEAR POST OFFICE ROAD
124+56.00	128+00.00	D	3.44	6.88	SECTION NEAR POST OFFICE ROAD
2.763	3.013	D	13.20	26.40	
141+35.00	145+20.00	D	3.85	7.70	SECTION NEAR TONKA SPRING ROAD
3.086	3.281	D	10.30	20.60	APPROACH TO B0342
3.311	3.875	D	29.78	59.56	DEPARTURE FROM B0342
3.924	4.124	D	10.56	21.12	
201+00.00	218+00.00	D	17.00	34.00	SECTION NEAR PEACEFUL VALLEY ROAD
4.445	4.737	D	15.42	30.84	APPROACH TO A8468
0.049	4.737	SUBTRACTIONS	0.00	-25.14	
			TOTAL	238.01	450.88
			USE	238.0	450.9

SUBTRACTIONS OF TOTAL LENGTH INCLUDE WIDTHS OF MAJOR SIDEROADS



DATE PREPARED
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ROUTE D/E STATE MO
DISTRICT CD SHEET NO. 3

COUNTY
CAMDEN/LACLEDE

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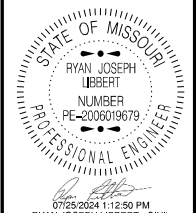
BRIDGE NO.

DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

MoDOT

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



DATE PREPARED
7/23/2024
ROUTE STATE
D/E MO
DISTRICT SHEET NO.
CD 3
COUNTY
CAMDEN/LACLEDE
JOB NO.
J5S3336
CONTRACT ID.
PROJECT NO.
BRIDGE NO.

PAVEMENT MARKINGS							
LOG MILE FROM	LOG MILE TO	LENGTH FT	WATERBORNE PAINT, TYPE P BEADS			PASSING ZONE DESCRIPTION	REMARKS
			YELLOW		WHITE		
			4" SOLID LF	4" INTERM. LF	4" SOLID LF		
ROUTE D, CAMDEN AND LACLEDE COUNTIES							
0.049	0.767	3791.04	7,582.1	0.0	7,582.1	NO PASS	BEG AT PAV'T. JOINT S/O US 54 INT.
0.767	0.927	844.80	844.8	211.2	1,689.6	RIGHT PASS - LEFT NO PASS	
0.927	1.047	633.60	633.6	158.4	1,267.2	RIGHT NO PASS - LEFT PASS	
1.047	15.072	74052.00	148,104.0	0.0	148,104.0	NO PASS	
15.072	15.212	739.20	739.2	184.8	1,478.4	RIGHT PASS - LEFT NO PASS	
15.212	15.372	844.80	844.8	211.2	1,689.6	RIGHT NO PASS - LEFT PASS	
15.372	15.592	1161.60	2,323.2	0.0	2,323.2	NO PASS	
15.592	15.790	1045.44	1,045.4	261.4	2,090.9	RIGHT PASS - LEFT NO PASS	
15.790	15.970	950.40	950.4	237.6	1,900.8	RIGHT NO PASS - LEFT PASS	
15.970	16.429	2423.52	4,847.0	0.0	4,847.0	NO PASS	ROUTE E INT., END AT STOP SIGN
SUBTOTAL			167,914.5	1,264.6	172,972.8		
ROUTE E, DALLAS AND LACLEDE COUNTIES							
0.000	3.116	16452.48	32,905.0	0.0	32,905.0	NO PASS	START AT PAV'T BEGINNING IN DALLAS COUNTY
3.116	3.176	316.80	316.8	79.2	633.6	RIGHT PASS - LEFT NO PASS	
3.176	3.296	633.60	633.6	158.4	1,267.2	RIGHT NO PASS - LEFT PASS	
3.296	6.456	16684.80	33,369.6	0.0	33,369.6	NO PASS	
6.456	6.597	744.48	744.5	186.1	1,489.0	RIGHT PASS - LEFT NO PASS	
6.597	6.636	205.92	411.8	0.0	411.8	NO PASS	
6.636	6.735	522.72	522.7	130.7	1,045.4	RIGHT NO PASS - LEFT PASS	
6.735	11.776	26616.48	53,233.0	0.0	53,233.0	NO PASS	END AT PAV'T JOINT W/O MO 5 INT.
0.000	11.776	SUBTRACTIONS	0.0	0.0	-360.0		ROUTE NN INT., ROUTE D INT.
SUBTOTAL			122,137.0	554.4	123,994.6		
TOTAL			290,051.5	1,819.0	296,967.4		
USE			291,871		296,967		

NOTE: MATCH EXISTING PASSING ZONES. SEE JSP'S FOR LOGGING PAVEMENT MARKING

EROSION CONTROL									
LOGMILE/STATION FROM	LOGMILE/STATION TO	LOCATION	LENGTH (mi)	SILT FENCE (ft)	ALT. DITCH CHECK (ft)	TYPE 2D ECB (sy)	SEDIMENT TRAP ROCK (cy)	SEDIMENT REMOVAL (cy)	REMARKS
ROUTE D NEAR MINNOWBROOK ROAD									
14+40.00	19+20.00	D	0.091		128	147.0	1.0	0.3	ON LEFT
14+40.00	19+20.00	D	0.091	175	24	77	1.5	4.0	ON RIGHT
SUBTOTAL				175	152	224	2.5	4.3	
ROUTE D NEAR POST OFFICE ROAD									
106+00.00	128+00.00	D	0.417	616	162	616	0.1	12.4	ON LEFT, INCLUDES NEW CONSTRUCTION
106+00.00	128+00.00	D	0.417	313	528	313	2.5	7.1	ON RIGHT, INCLUDES NEW CONSTRUCTION
SUBTOTAL				929	690	929	2.6	19.5	
ROUTE D NEAR TONKA SPRING ROAD									
141+35.00	145+20.00	D	0.073		232		1.5	0.5	ON LEFT
141+35.00	145+20.00	D	0.073		178		1.0	0.3	ON RIGHT
SUBTOTAL				0	410	0	2.5	0.8	
ROUTE D NEAR PEACEFUL VALLEY ROAD									
201+00.00	218+00.00	D	0.322	387	592	274	0.5	7.9	ON LEFT
201+00.00	218+00.00	D	0.322	1153	568	168		23.1	ON RIGHT
SUBTOTAL				1540	1160	442	0.5	31.0	
REMAINING ROUTE D SHOULDERING SECTION									
0.049	0.633	D	0.584	140	93	292	4	4	SILT FENCE = 240 LF/MILE ALT. DITCH CHECKS = 160 LF/MILE SEDIMENT TRAP = 6 CY/MILE EROSION CONTROL BLANKET = 500 SY/MILE
0.722	0.831	D	0.109	26	17	55	1	1	
0.921	2.347	D	1.426	342	228	713	9	10	
2.763	3.013	D	0.250	60	40	125	2	2	
3.086	3.281	D	0.195	47	31	98	1	1	
3.311	3.875	D	0.564	135	90	282	3	4	
3.924	4.124	D	0.200	48	32	100	1	1	
4.445	4.737	D	0.292	70	47	146	2	2	
SUBTOTAL				868	578	1811	23	25	
TOTAL				3512	2990	3406	31.1	80.6	
USE				3512	2990	3406	31.1	81	

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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

DESCRIPTION

DATE



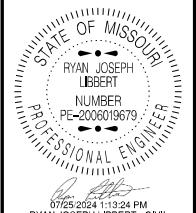
EXISTING SIGN ADJUSTMENTS

LOGMILE/STATION FROM TO	LOCATION	POSTS NUMBER (ea)	2.5*PSST(12 GA)		U-CHANNEL		CONCRETE FOOTINGS EMBEDDED (cy)	CONCRETE POST ANCHOR 7 GA. (ea)	BREAKAWAY ASSEMBLY (ea)	REATTACH SIGN (ea)	SIGN DESCRIPTION	REMARKS
			UNIT LENGTH (ft)	TOTAL LENGTH (ft)	UNIT LENGTH (ft)	TOTAL LENGTH (ft)						
0.340	D	1	16	16			0.09	1	1	2	ROUTE D DESIGNATION W/ RIGHT ARROW PLAQUE	ON RIGHT AT BUMPER HILL INT.; PLACE SIGN ON NEW POST
0.360	D	1	16	16			0.09	1	1	2	ROUTE D DESIGNATION W/ LEFT ARROW PLAQUE	ON LEFT AT BUMPER HILL INT.; PLACE SIGN ON NEW POST
0.410	0.527	D	10		16	160				10	CHEVRON SIGNS	ON RIGHT, PLACE SIGN ON NEW POST
0.410	D	1	16	16			0.09	1	1	2	LEFT TURN SIGN W/ 10 MPH PLAQUE	ON LEFT, PLACE SIGN ON NEW POST
0.587	D	1	16	16			0.09	1	1	2	LEFT CURVE SIGN W/ 35 MPH PLAQUE	ON LEFT, NEAR MINNOWBROOK ROAD, PLACE SIGN ON NEW POST
0.627	D	1	16	16			0.09	1	1	2	LEFT CURVE SIGN W/ 35 MPH PLAQUE	ON RIGHT, NEAR MINNOWBROOK ROAD, PLACE SIGN ON NEW POST
0.667	0.747	D	5		16	80				5	CHEVRON SIGNS	ON RIGHT, PLACE SIGN ON NEW POST
0.788	D	1	16	16			0.09	1	1	2	LEFT CURVE SIGN W/ 35 MPH PLAQUE	ON LEFT, APPROACHING A1905, PLACE SIGN ON NEW POST
1.227	D	1	16	16			0.09	1	1	2	RIGHT REVERSE CURVE SIGN W/ 40 MPH PLAQUE	ON RIGHT, AT HA HA TONKA PARK BORDER, PLACE SIGN ON NEW POST
1.428	D	1	16	16			0.09	1	1	1	ADOPT A HIGHWAY SIGN	ON RIGHT, NEAR PARK VISITOR'S CENTER, PLACE SIGN ON NEW POST
1.627	D	1	16	16			0.09	1	1	2	WINDING ROAD SIGN W/ 35 MPH PLAQUE	ON RIGHT, NEAR PARK VISITOR'S CENTER, PLACE SIGN ON NEW POST
1.667	D	1	16	16			0.09	1	1	2	RIGHT REVERSE CURVE SIGN W/ 40 MPH PLAQUE	ON LEFT, NEAR PARK VISITOR'S CENTER, PLACE SIGN ON NEW POST
1.867	D	1	16	16			0.09	1	1	3	"TO" 54 DESIGNATION SIGN W/ LEFT ARROW PLAQUE	ON LEFT, ACROSS FROM CASTLE RUINS RD., PLACE SIGN ON NEW POST
2.209	D	1	16	16			0.09	1	1	2	WINDING ROAD SIGN W/ 35 MPH PLAQUE	ON LEFT, PLACE SIGN ON NEW POST
112+10.00	D	1	16	16			0.09	1	1	1	LARGE ARROW SIGN	ON LEFT, NEAR POST OFFICE ROAD, PLACE SIGN ON NEW POST
11+00.00	CO BL	1	16	16			0.09	1	1	1	INTERSECTION AHEAD SIGN	ON RIGHT, NEAR POST OFFICE ROAD, PLACE SIGN ON NEW POST
14+50.00	CO BL	1	16	16			0.09	1	1	2	WINDING ROAD SIGN W/ 35 MPH PLAQUE	ON RIGHT, NEAR POST OFFICE ROAD, PLACE SIGN ON NEW POST
17+80.00	CO BL	1	16	16			0.09	1	1	1	TRAIL CROSSING SIGN	ON RIGHT, NEAR POST OFFICE ROAD, PLACE SIGN ON NEW POST
19+45.00	CO BL	1	16	16			0.09	1	1	1	TRAIL CROSSING SIGN	ON LEFT, NEAR POST OFFICE ROAD, PLACE SIGN ON NEW POST
2.930	D	1	16	16			0.09	1	1	1	INTERSECTION AHEAD SIGN	ON RIGHT, NEAR TONKA SPRING RD., PLACE SIGN ON NEW POST
3.131	D	1	16	16			0.09	1	1	1	ADOPT A HIGHWAY SIGN	ON LEFT, APPROACHING B0342, PLACE SIGN ON NEW POST
3.251	D	1	16	16			0.09	1	1	2	RIGHT CURVE SIGN W/ 40 MPH PLAQUE	ON RIGHT, APPROACHING B0342, PLACE SIGN ON NEW POST
3.261	D	1	16	16			0.09	1	1	2	WINDING ROAD SIGN W/ 35 MPH PLAQUE	ON LEFT, APPROACHING B0342, PLACE SIGN ON NEW POST
3.612	D	1	16	16			0.09	1	1	2	LEFT CURVE SIGN W/ 40 MPH PLAQUE	ON LEFT, APPROACHING A8468, PLACE SIGN ON NEW POST
3.653	D	1	16	16			0.09	1	1	2	LEFT CURVE SIGN W/ 45 MPH PLAQUE	ON RIGHT, APPROACHING A8468, PLACE SIGN ON NEW POST
3.873	D	1	16	16			0.09	1	1	2	RIGHT CURVE SIGN W/ 45 MPH PLAQUE	ON LEFT, APPROACHING A8468, PLACE SIGN ON NEW POST
3.890	D	1	16	16			0.09	1	1	1	"BANK BRANCH CREEK" SIGN	ON RIGHT, APPROACHING A8468, PLACE SIGN ON NEW POST
3.930	D	1	16	16			0.09	1	1	1	"BANK BRANCH CREEK" SIGN	ON LEFT, DEPARTING A8468, PLACE SIGN ON NEW POST
4.022	D	1	16	16			0.09	1	1	2	REVERSE TURN SIGN W/ 30 MPH PLAQUE	ON RIGHT, DEPARTING A8468, PLACE SIGN ON NEW POST
202+90.00	D	1	16	16			0.09	1	1	1	LARGE ARROW SIGN	ON LEFT, NEAR PEACEFUL VALLEY ROAD, PLACE SIGN ON NEW POST
203+10.00	D	1	16	16			0.09	1	1	1	LARGE ARROW SIGN	ON LEFT, NEAR PEACEFUL VALLEY ROAD, PLACE SIGN ON NEW POST
204+10.00	D	1	16	16			0.09	1	1	1	BUS STOP AHEAD SIGN	ON LEFT, NEAR PEACEFUL VALLEY ROAD, PLACE SIGN ON NEW POST
206+90.00	D	1	16	16			0.09	1	1	2	WINDING ROAD SIGN W/ "NEXT 1 MILE" PLAQUE	ON RIGHT, NEAR GRACE LANE, PLACE SIGN ON NEW POST
4.347	D	1	16	16			0.09	1	1	2	LEFT CURVE SIGN W/ 35 MPH PLAQUE	ON RIGHT, PLACE SIGN ON NEW POST
4.367	D	1	16	16			0.09	1	1	2	REVERSE TURN SIGN W/ 30 MPH PLAQUE	ON LEFT, PLACE SIGN ON NEW POST
4.475	4.527	D	8		16	128				8	CHEVRON SIGNS	ON LEFT, PLACE SIGN ON NEW POST
4.530	D	1	16	16			0.09	1	1	2	LEFT CURVE SIGN W/ 40 MPH PLAQUE	ON RIGHT, PLACE SIGN ON NEW POST
4.547	D	1	16	16			0.09	1	1	2	LEFT TURN SIGN W/ 30 MPH PLAQUE	ON RIGHT, PLACE SIGN ON NEW POST
4.675	D	1	16	16			0.09	1	1	2	RIGHT CURVE SIGN W/ 45 MPH PLAQUE	ON RIGHT, PLACE SIGN ON NEW POST
4.682	D	1	16	16			0.09	1	1	2	RIGHT CURVE SIGN W/ 40 MPH PLAQUE	ON RIGHT, PLACE SIGN ON NEW POST
TOTAL PAY			592		368		3.33	37	34	86	FOR INFORMATIONAL PURPOSES ONLY SEE JSP'S	

GUARDRAIL

LOGMILE/STATION FROM TO	LOCATION	MIDWEST GUARDRAIL SYSTEMS					SHAPING SLOPES CLASS III (sta)	SHAPING SLOPES CLASS III (MOD. MAT. REQ.) (sta)	REMARKS
		GUARDRAIL 6' POST 6'-3" SP. (ft)	GUARDRAIL 8' POST 6'-3" SP. (ft)	BRIDGE APPROACH TRANSITION NO CURB (ea)	BLOCK AND HEIGHT TRANS. (ea)	CRASHWORTHY END TERM. (ea)			
107+17.50	107+55.00	D		12.5		1	1		ON LEFT, SECT. NEAR POST OFFICE
110+25.00	112+99.00	D		300		1	1		ON LEFT, SECT. NEAR POST OFFICE
10+91.00	15+64.00	CO BL		487.5			2		ON RIGHT, SECT. NEAR POST OFFICE
3.264	3.281	D	50		1			0.50	ON LEFT, APPROACH TO B0342
3.255	3.281	D	100		1			0.50	ON RIGHT, APPROACH TO B0342
3.311	3.319	D	0		1			0.50	ON LEFT, DEPARTURE FROM B0342
3.311	3.319	D	0		1			0.50	ON RIGHT, DEPARTURE FROM B0342
3.858	3.869	D	62.5			1		0.50	ON LEFT, APPROACH TO A8468
3.839	3.869	D	162.5			1		0.50	ON RIGHT, APPROACH TO A8468
3.929	3.991	D	325			1		0.50	ON LEFT, DEPARTURE FROM A8468
3.929	3.981	D	275			1		0.50	ON RIGHT, DEPARTURE FROM A8468
TOTAL USE			975	800	4	2	12	2	2

SUMMARY OF QUANTITIES
SHEET 6 OF 7



DATE PREPARED
7/23/2024
ROUTE D/E MO
DISTRICT CD SHEET NO. 3

COUNTY
CAMDEN/LACLEDE
JOB NO.
J5S3336
CONTRACT ID.

PROJECT NO.
BRIDGE NO.

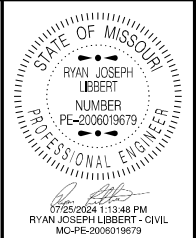
DESCRIPTION	DATE



Table with columns: SIGN, SIZE, AREA, QTY, TOTAL AREA, QTY RELOC, TOTAL RELOC, SIGN NUM., DESCRIPTION. Includes sections for WARNING SIGNS and REGULATORY SIGNS.

Table with columns: SIGN, SIZE, AREA, QTY, TOTAL, RELOC, QTY RELOC, TOTAL RELOC, SIGN NUM., DESCRIPTION. Includes sections for GUIDE SIGNS and MISCELLANEOUS SIGNS.

Table with columns: ITEM NUMBER, TOTAL QTY, DESCRIPTION. Lists various construction materials and their quantities.



DATE PREPARED: 7/23/2024. ROUTE: D/E. STATE: MO. DISTRICT: CD. SHEET NO.: 3. COUNTY: CAMDEN/LACLEDE. JOB NO.: J5S3336. CONTRACT ID.: PROJECT NO.: BRIDGE NO.:

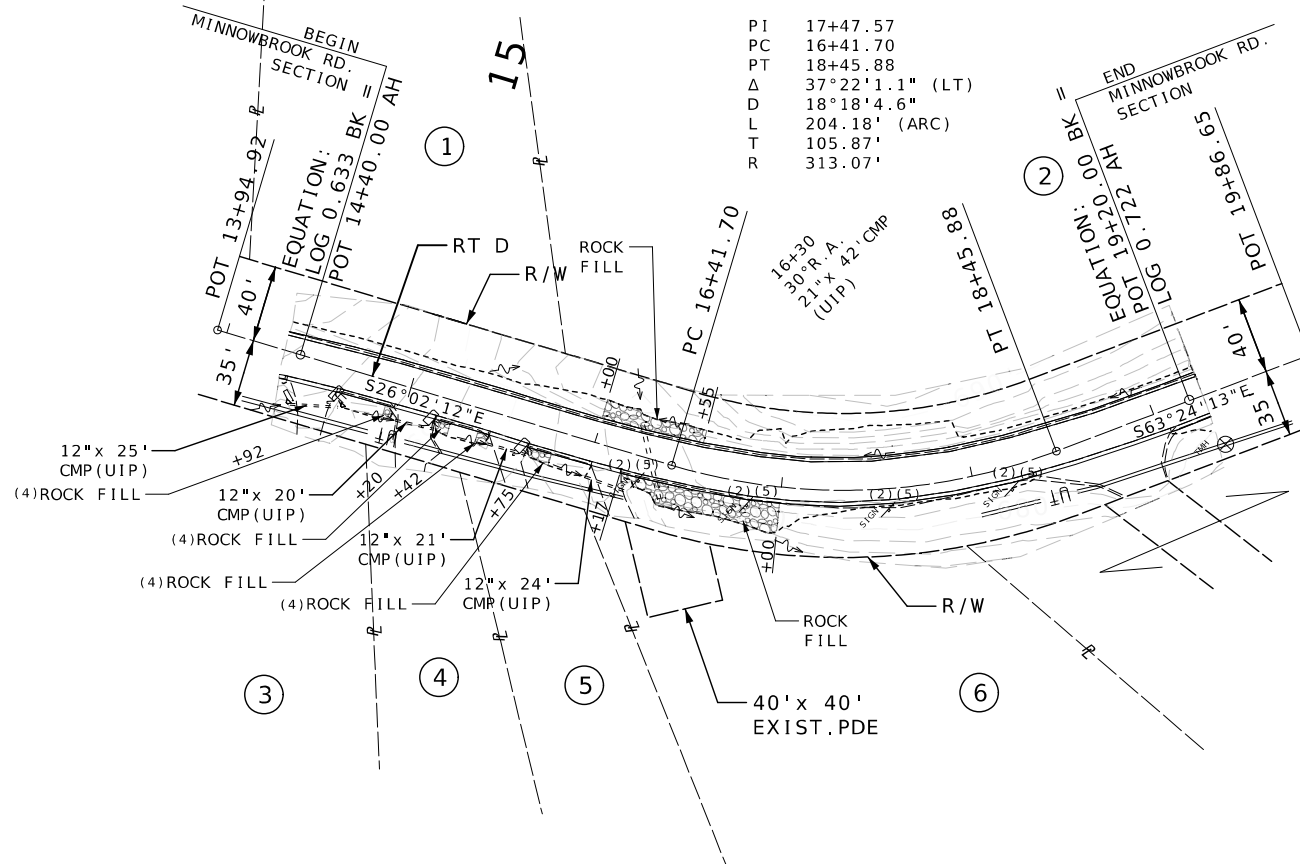
Table with columns: DESCRIPTION, DATE. Includes Missouri Highways and Transportation Commission logo and address: 105 WEST CAPITOL JEFFERSON CITY, MO 65102. Phone: 1-888-ASK-MODOT (1-888-273-6636).

SE 1/4 NE
SEC. 34
T38N R17W

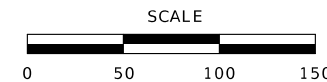
PI 17+47.57
PC 16+41.70
PT 18+45.88
Δ 37°22'1.1" (LT)
D 18°18'4.6"
L 204.18' (ARC)
T 105.87'
R 313.07'

- NOTES:
- RELOCATE MAILBOXES TO SAME STATION WITH ACCESS FROM NEW SHOULDER.
 - RELOCATE CHEVRON SIGNS TO SAME STATION IF NEW SHOULDER PUTS THEM CLOSER THAN STANDARD PLANS ALLOW.
 - DO NOT DISTURB EXISTING WALL.
 - INSTALL ROCK FILL WHERE EMBANKMENT SLOPE IS STEEPER THAN 2:1. LEAVE IN PLACE PIPE CULVERT HEADWALLS.
 - SALVAGE SIGN AND REINSTALL ON NEW POST AT SAME STATION.

- SMALLWOOD, RICKEY P. & GINA L.
NO NEW RIGHT OF WAY
- CUSHMAN, HERBERT
NO NEW RIGHT OF WAY
- EHRETT, ROY & TRACY PICANSO
NO NEW RIGHT OF WAY
- JOHNSON, KIRK D. SR. & NANCY C.
NO NEW RIGHT OF WAY
- WAHLE, EDWIN D. & DOROTHY
NO NEW RIGHT OF WAY
- SELKE, JAMES OTTO & MERCADO, JODI B.
NO NEW RIGHT OF WAY
- KUPFER, CLAY & MELISSA
NO NEW RIGHT OF WAY



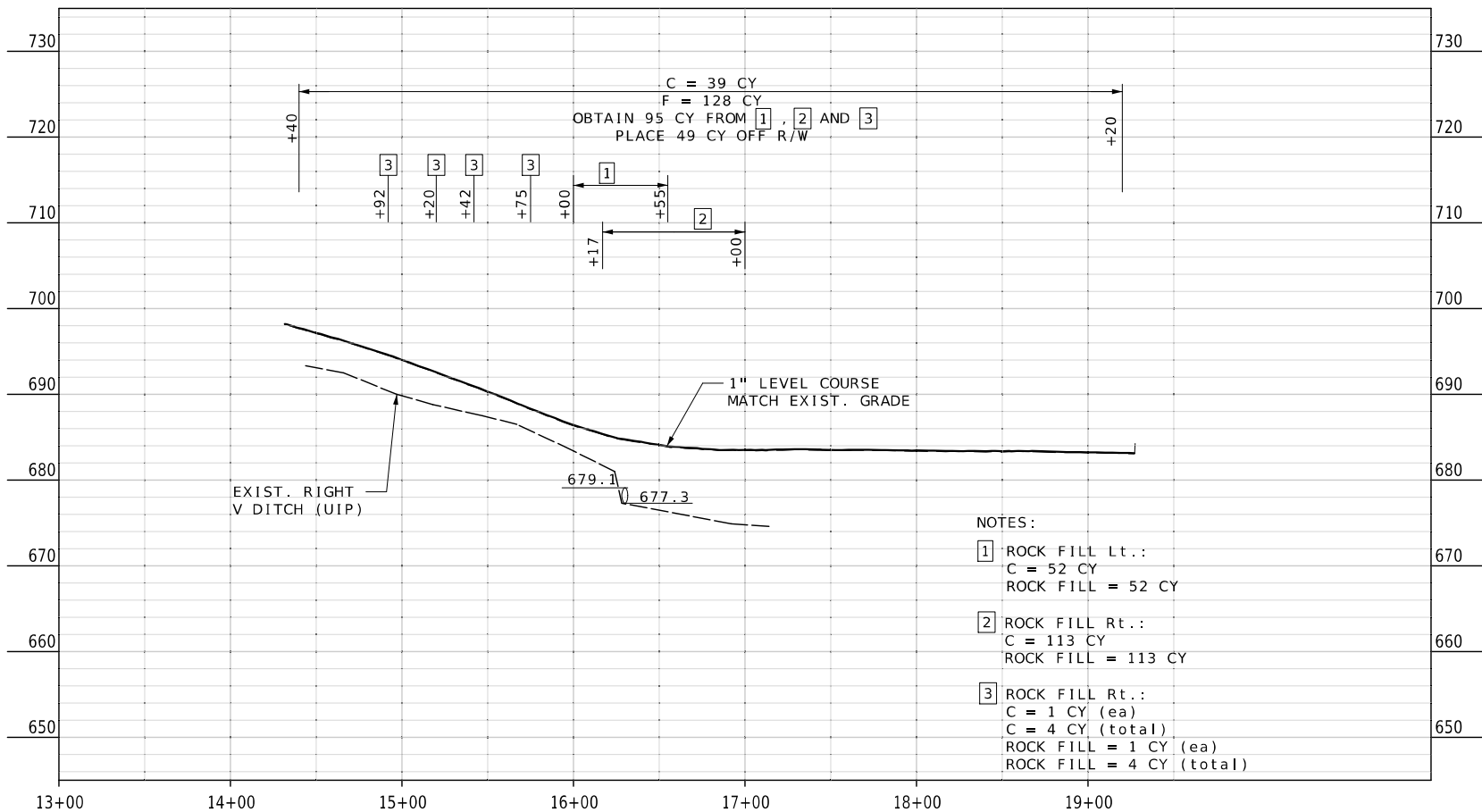
PLAN OF ROUTE D
AT MINNOWBROOK ROAD



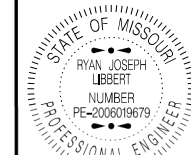
ANY WORK INDICATED ON THE PLANS THAT EXTENDS BEYOND THE PROJECT LIMITS IS CONSIDERED INCIDENTAL TO AND A PART OF THE CONSTRUCTION OF THIS PROJECT.

RIGHT OF WAY LIMITS FOR THIS PROJECT EXTEND:
FROM LOG MILE 0.049 TO LOGMILE 16.460 ON ROUTE D, A DISTANCE OF 16.41 MILES.
FROM LOG MILE 0.000 TO LOGMILE 11.776 ON ROUTE E, A DISTANCE OF 11.776 MILES.

ALL BEARINGS BASED ON STATE PLANE BEARINGS, CENTRAL ZONE.



- NOTES:
- ROCK FILL Lt.:
C = 52 CY
ROCK FILL = 52 CY
 - ROCK FILL Rt.:
C = 113 CY
ROCK FILL = 113 CY
 - ROCK FILL Rt.:
C = 1 CY (ea)
C = 4 CY (total)
ROCK FILL = 1 CY (ea)
ROCK FILL = 4 CY (total)



DATE PREPARED
6/26/2024

ROUTE STATE
D/E MO
DISTRICT SHEET NO.
CD 4

COUNTY
CAMDEN/LACLEDE
JOB NO.
J553336
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)

PLAN/PROFILE
ROUTE D SURVEY C.L.
MINNOWBROOK ROAD
SHEET 1 OF 1

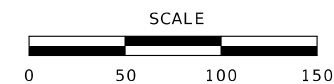
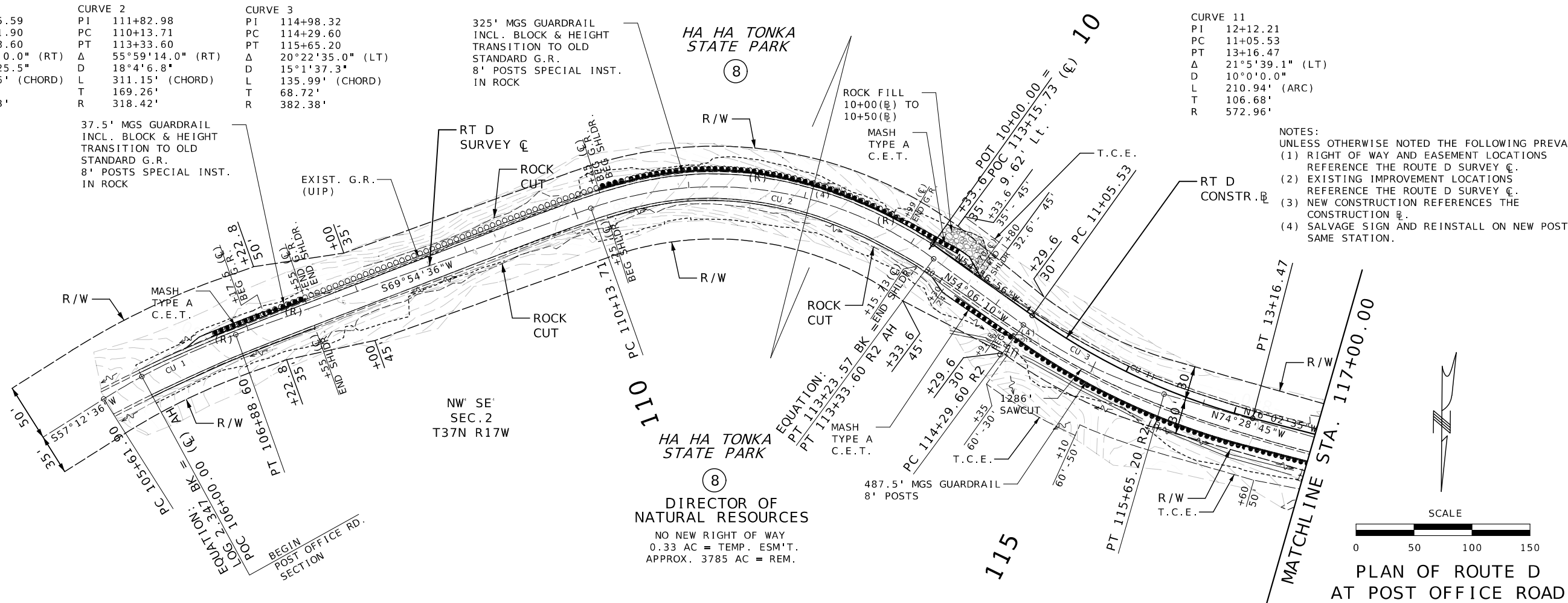
CURVE 1		CURVE 2		CURVE 3	
PI	106+25.59	PI	111+82.98	PI	114+98.32
PC	105+61.90	PC	110+13.71	PC	114+29.60
PT	106+88.60	PT	113+33.60	PT	115+65.20
Δ	12°42'0.0" (RT)	Δ	55°59'14.0" (RT)	Δ	20°22'35.0" (LT)
D	10°1'25.5"	D	18°4'6.8"	D	15°1'37.3"
L	126.86' (CHORD)	L	311.15' (CHORD)	L	135.99' (CHORD)
T	63.69'	T	169.26'	T	68.72'
R	572.33'	R	318.42'	R	382.38'

37.5' MGS GUARDRAIL
INCL. BLOCK & HEIGHT
TRANSITION TO OLD
STANDARD G.R.
8' POSTS SPECIAL INST.
IN ROCK

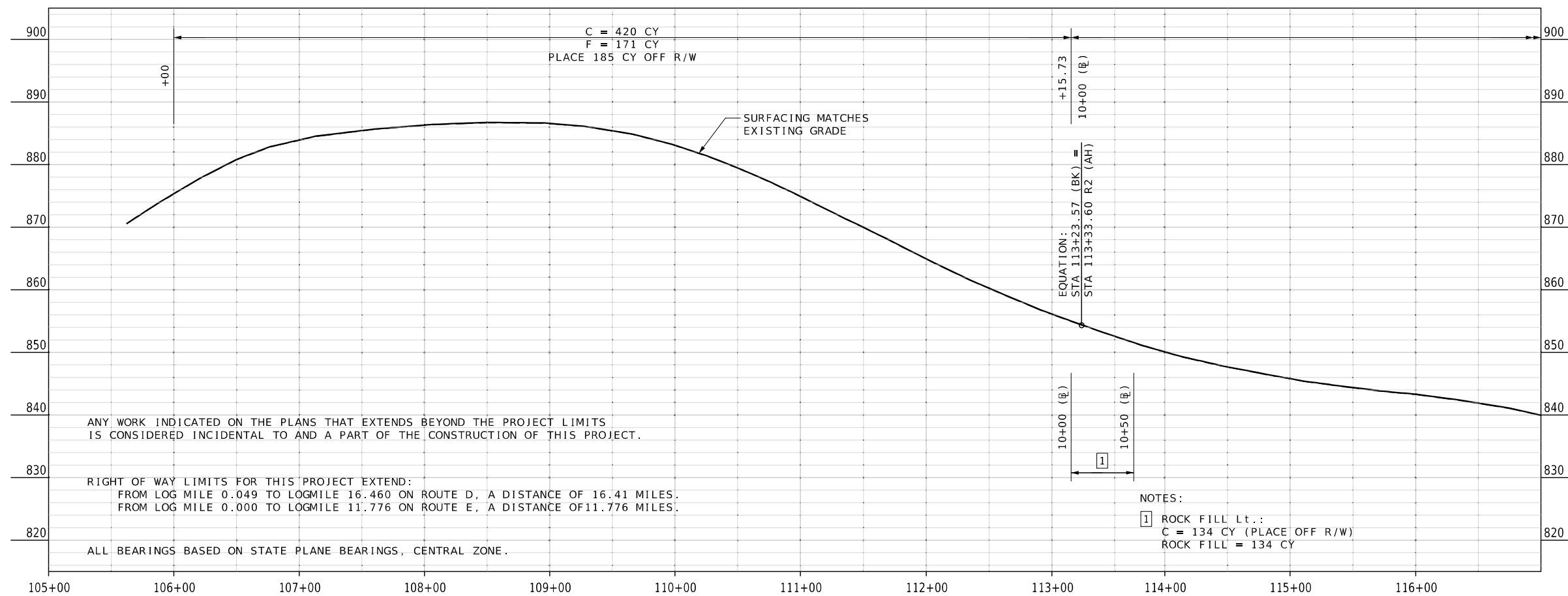
325' MGS GUARDRAIL
INCL. BLOCK & HEIGHT
TRANSITION TO OLD
STANDARD G.R.
8' POSTS SPECIAL INST.
IN ROCK

CURVE 11	
PI	12+12.21
PC	11+05.53
PT	13+16.47
Δ	21°5'39.1" (LT)
D	10°0'0.0"
L	210.94' (ARC)
T	106.68'
R	572.96'

- NOTES:
UNLESS OTHERWISE NOTED THE FOLLOWING PREVAIL:
(1) RIGHT OF WAY AND EASEMENT LOCATIONS REFERENCE THE ROUTE D SURVEY ϵ .
(2) EXISTING IMPROVEMENT LOCATIONS REFERENCE THE ROUTE D SURVEY ϵ .
(3) NEW CONSTRUCTION REFERENCES THE CONSTRUCTION ϵ .
(4) SALVAGE SIGN AND REINSTALL ON NEW POST AT SAME STATION.



PLAN OF ROUTE D AT POST OFFICE ROAD



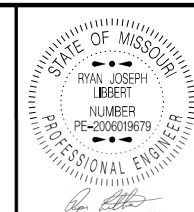
ANY WORK INDICATED ON THE PLANS THAT EXTENDS BEYOND THE PROJECT LIMITS IS CONSIDERED INCIDENTAL TO AND A PART OF THE CONSTRUCTION OF THIS PROJECT.

RIGHT OF WAY LIMITS FOR THIS PROJECT EXTEND:
FROM LOG MILE 0.049 TO LOGMILE 16.460 ON ROUTE D, A DISTANCE OF 16.41 MILES.
FROM LOG MILE 0.000 TO LOGMILE 11.776 ON ROUTE E, A DISTANCE OF 11.776 MILES.

ALL BEARINGS BASED ON STATE PLANE BEARINGS, CENTRAL ZONE.

NOTES:

- 1 ROCK FILL Lt.:
C = 134 CY (PLACE OFF R/W)
ROCK FILL = 134 CY



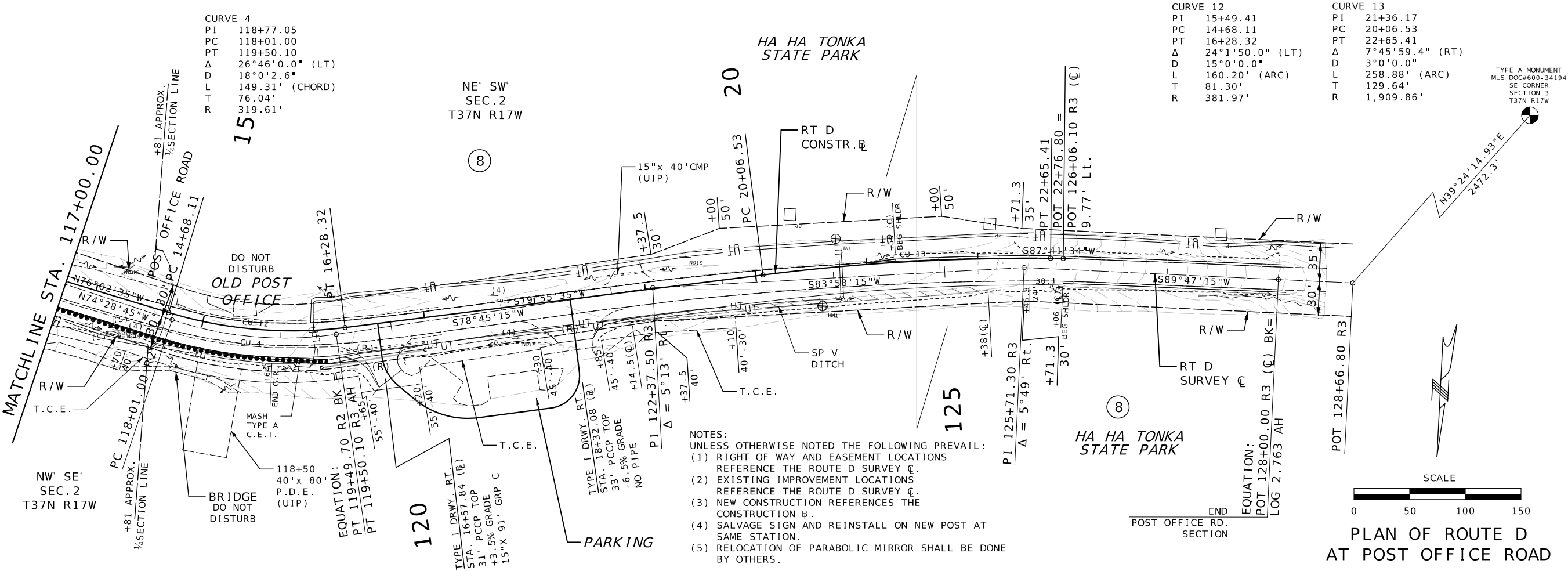
DATE PREPARED		6/26/2024	
ROUTE	D/E	STATE	MO
DISTRICT	CD	SHEET NO.	5
COUNTY CAMDEN/LACLEDE			
JOB NO. J5S3336			
CONTRACT ID.			
PROJECT NO.			
BRIDGE NO.			

DATE	DESCRIPTION

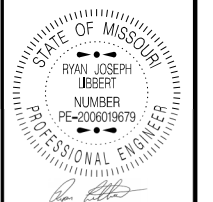
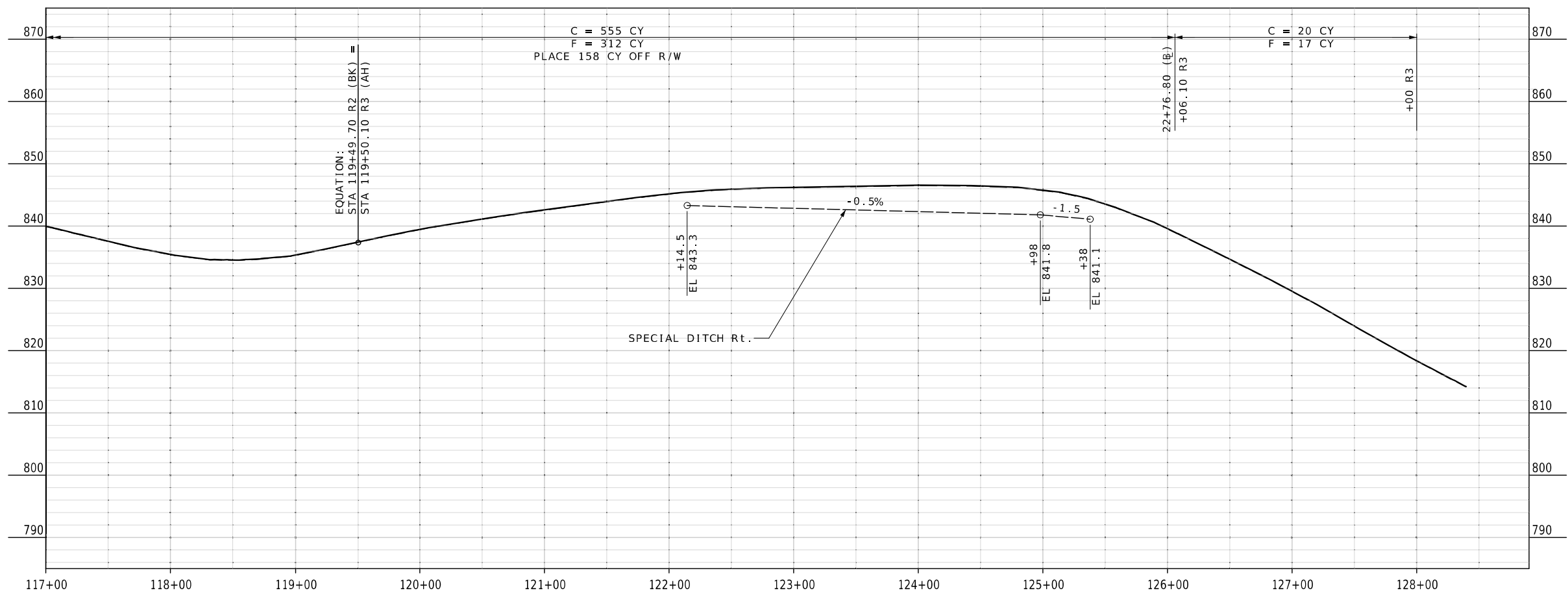
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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

PLAN/PROFILE
ROUTE D SURVEY ϵ
POST OFFICE ROAD
SHEET 1 OF 2



- NOTES:**
 UNLESS OTHERWISE NOTED THE FOLLOWING PREVAIL:
 (1) RIGHT OF WAY AND EASEMENT LOCATIONS REFERENCE THE ROUTE D SURVEY E.
 (2) EXISTING IMPROVEMENT LOCATIONS REFERENCE THE ROUTE D SURVEY E.
 (3) NEW CONSTRUCTION REFERENCES THE CONSTRUCTION E.
 (4) SALVAGE SIGN AND REINSTALL ON NEW POST AT SAME STATION.
 (5) RELOCATION OF PARABOLIC MIRROR SHALL BE DONE BY OTHERS.



DATE PREPARED
6/26/2024

ROUTE STATE
D/E MO

DISTRICT SHEET NO.
CD 6

COUNTY
CAMDEN/LACLEDE

JOB NO.
J553336

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

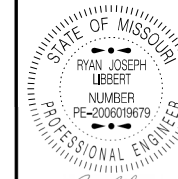
DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

MoDOT

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

PLAN/PROFILE ROUTE D SURVEY E POST OFFICE ROAD SHEET 2 OF 2



DATE PREPARED
6/26/2024 9:13:47 AM
RYAN JOSEPH LIBBERT - CIVIL
MO-PE-2006019679

ROUTE STATE
D/E MO

DISTRICT SHEET NO.
CD 7

COUNTY
CAMDEN/LACLEDE

JOB NO.
J553336

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION

DATE

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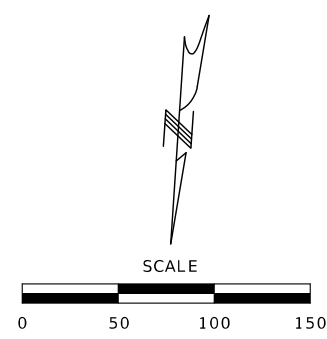
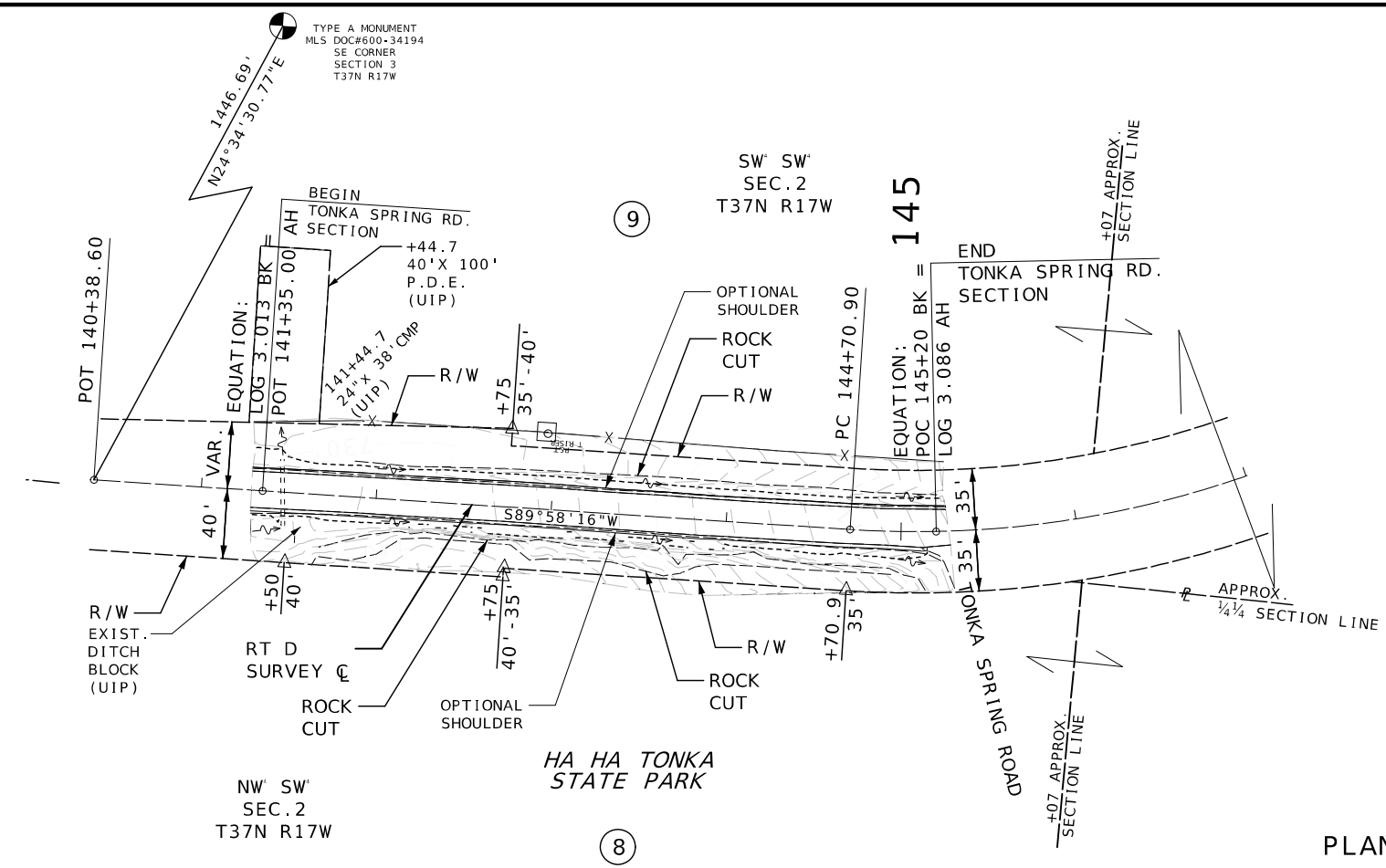
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DATE

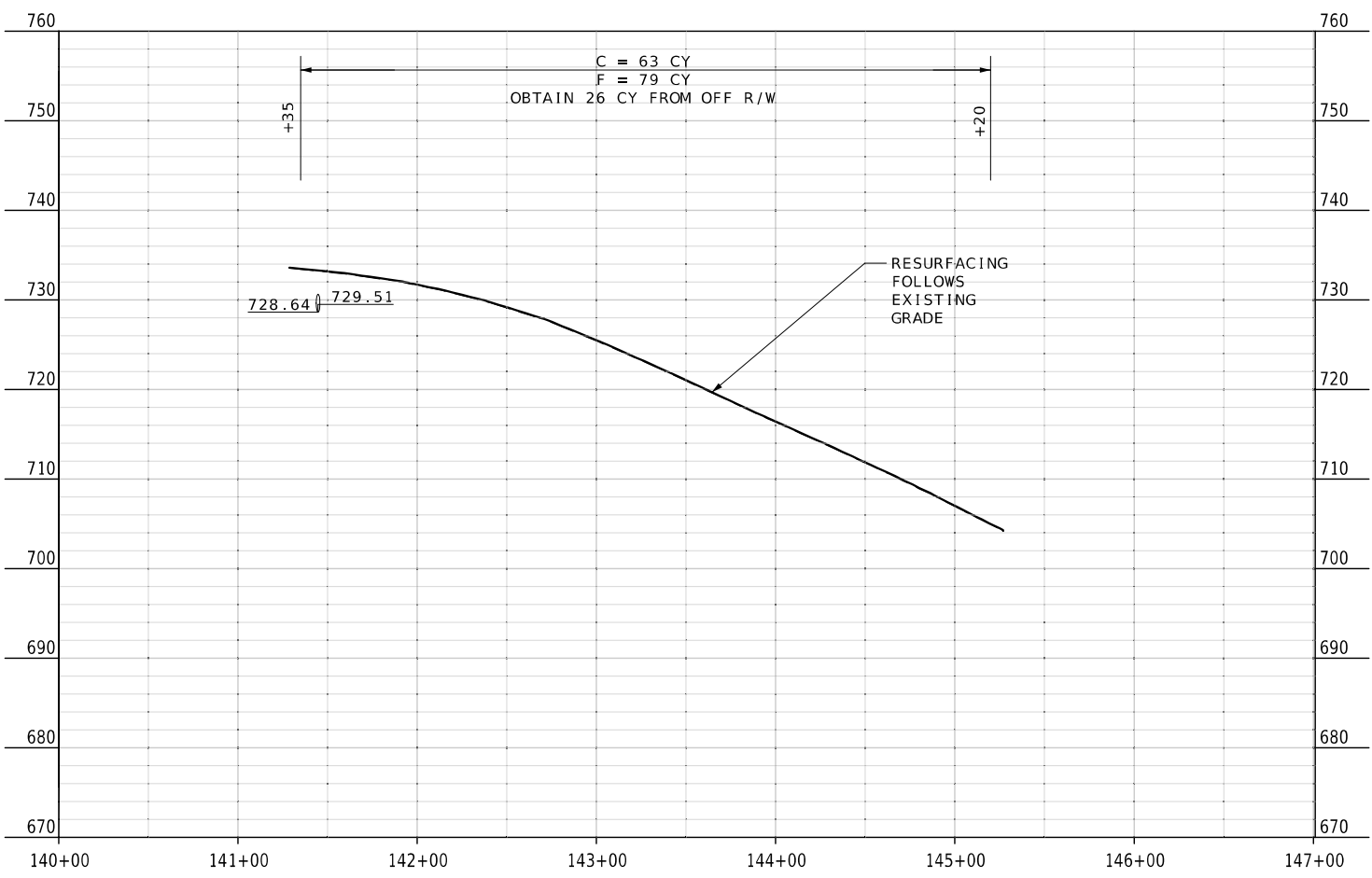
DATE

DATE

9 SCOTT, JOE . & ANN K.
NO NEW RIGHT OF WAY



PLAN OF ROUTE D AT TONKA SPRINGS ROAD



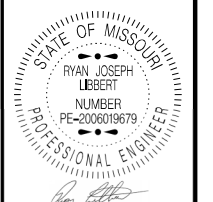
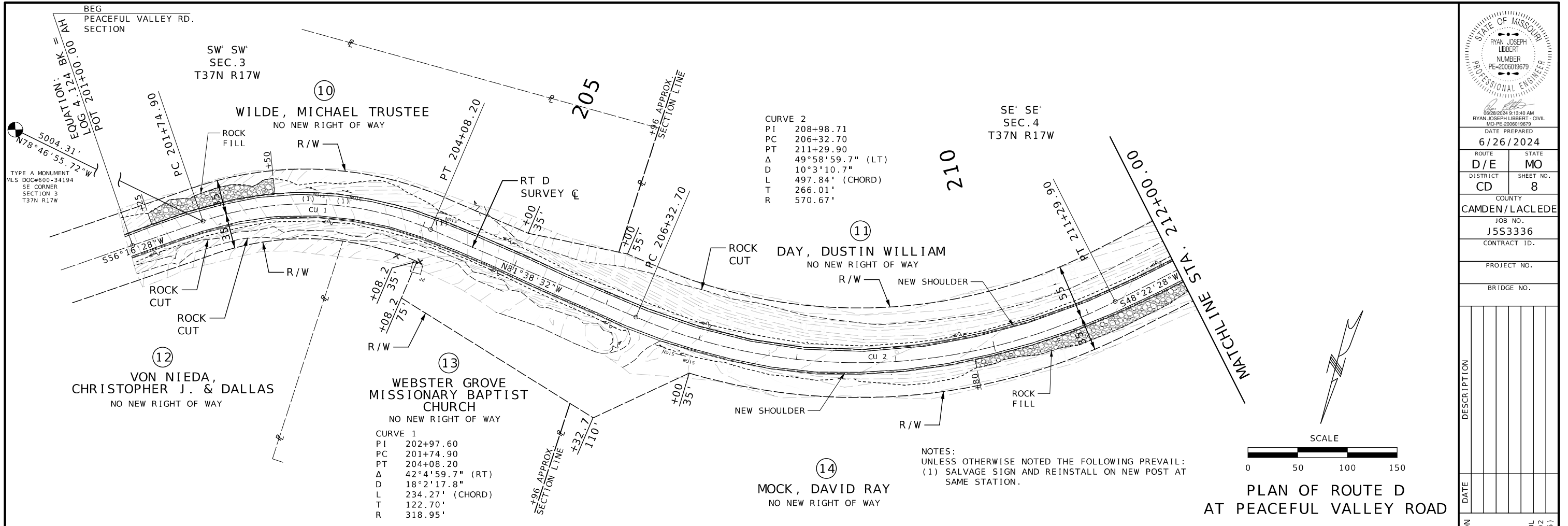
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RIGHT OF WAY LIMITS FOR THIS PROJECT EXTEND:
FROM LOG MILE 0.049 TO LOGMILE 16.460 ON ROUTE D, A DISTANCE OF 16.41 MILES.
FROM LOG MILE 0.000 TO LOGMILE 11.776 ON ROUTE E, A DISTANCE OF 11.776 MILES.

ALL BEARINGS BASED ON STATE PLANE BEARINGS, CENTRAL ZONE.

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

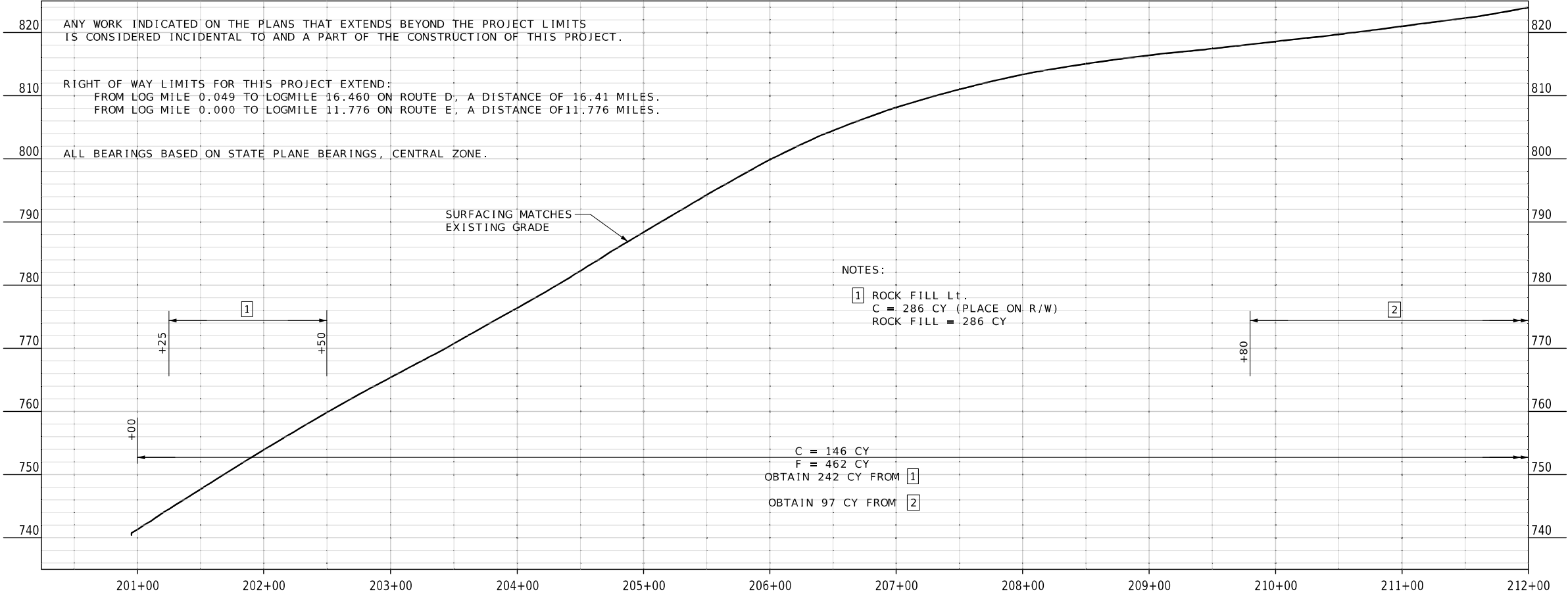
PLAN/PROFILE
ROUTE D SURVEY &
TONKA SPRINGS ROAD
SHEET 1 OF 1



DATE PREPARED 6/26/2024	
ROUTE D/E	STATE MO
DISTRICT CD	SHEET NO. 8
COUNTY CAMDEN/LACLEDE	
JOB NO. J553336	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

DATE	DESCRIPTION

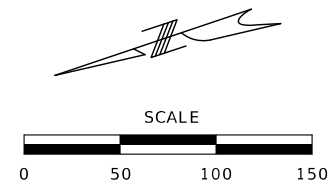
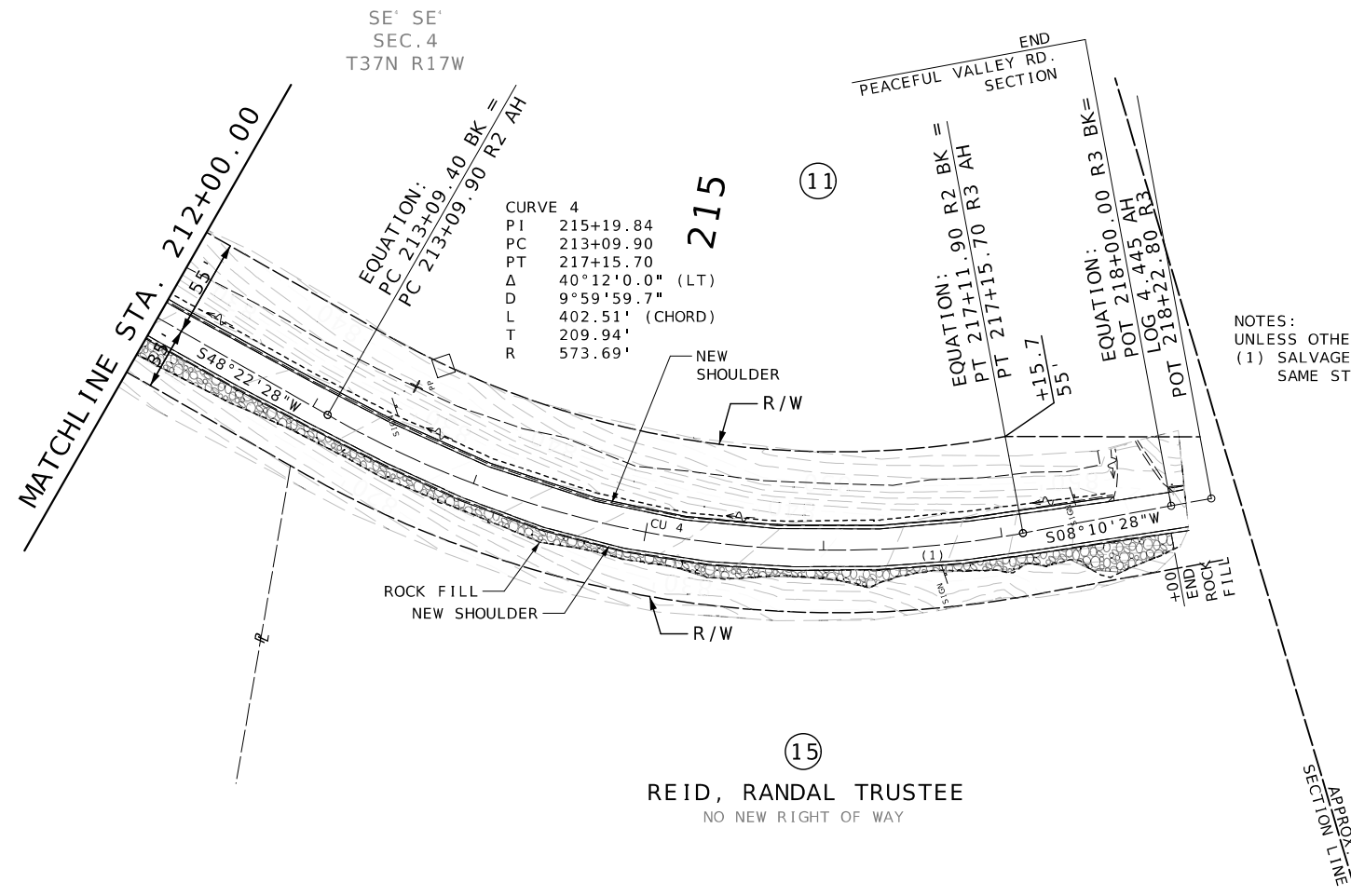
PLAN OF ROUTE D AT PEACEFUL VALLEY ROAD



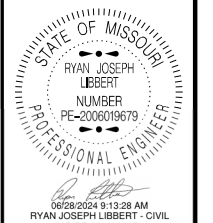
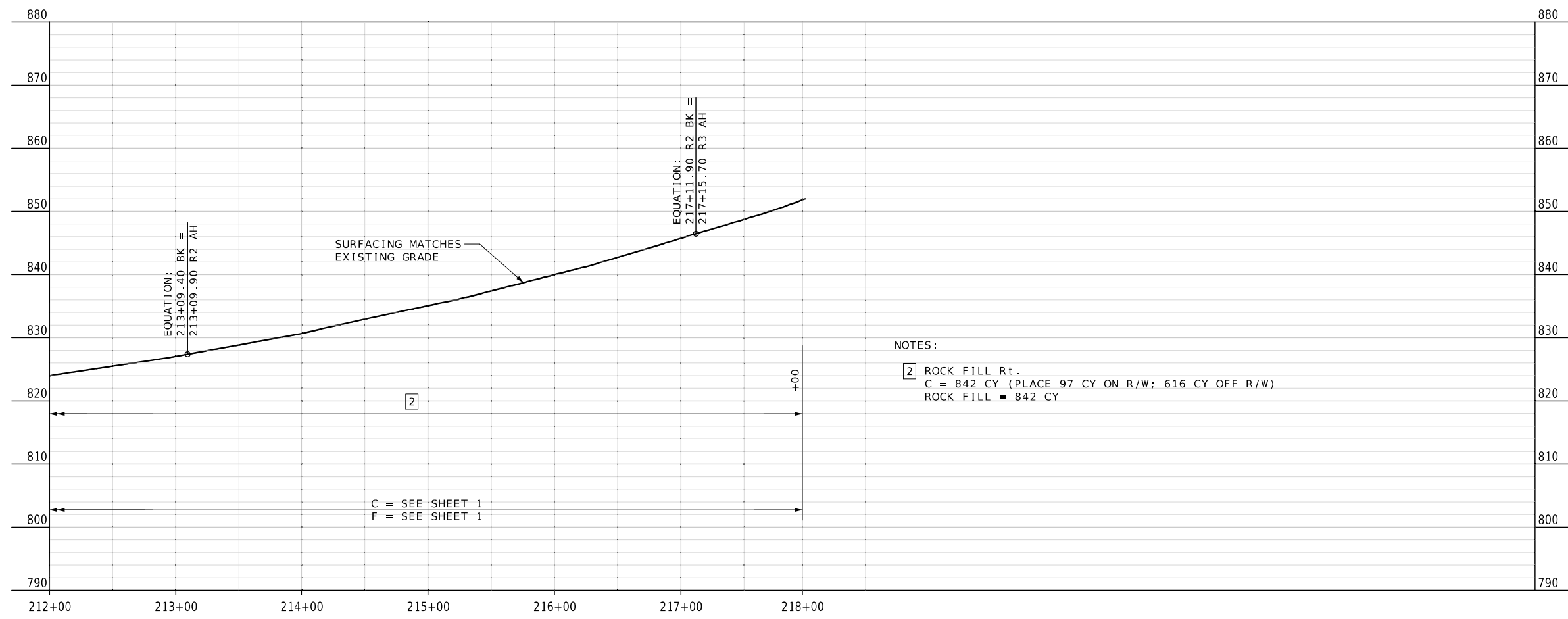
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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

PLAN/PROFILE
 ROUTE D SURVEY &
 PEACEFUL VALLEY ROAD
 SHEET 1 OF 2



PLAN OF ROUTE D AT PEACEFUL VALLEY ROAD



DATE PREPARED
6/26/2024

ROUTE STATE
D/E MO

DISTRICT SHEET NO.
CD 9

COUNTY
CAMDEN/LACLEDE

JOB NO.
J553336

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)

PLAN/PROFILE
 ROUTE D SURVEY &
 PEACEFUL VALLEY ROAD
 SHEET 2 OF 2

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	GEOID 2012
ELEVATIONS DETERMINED BY	FREDERICK WILDE, PLS
PROJECT PROJECTION FACTOR	1.0000944

REFERENCE CONTROL INFORMATION

COORDINATE SYSTEM	MODIFIED STATE PLANE
CONTROL STATION	MOCD
DESIGNATION	MODOT CAMDENTON CORPS ARP
CORS_ID	MOCD
PID	DM4114
LATITUDE	380209.39157 N
LONGITUDE	924623.11422 W
NORTHING (M)	244456.623
EASTING (M)	476027.359
ZONE	2402 (MO-CENTRAL)
PROJECT AVERAGE GRID FACTOR	0.9999056

EXAMPLE OF PROJECT COORDINATE TO S.P.C.

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

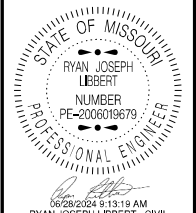
EXAMPLE: CONTROL POINT # ____
 N _____ X _____ = N _____
 E _____ X _____ = E _____

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								
ALIGNMENTS								
4	13+94.92	D C.L.	0	786006.20945	1560306.78933		START D NEAR MINNOWBROOK ROAD	
4	16+41.70	D C.L.	0	785784.47231	1560415.11320		PC CURVE ON D NEAR MINNOWBROOK ROAD	
4	17+47.57	D C.L.	> 0	785689.34863	1560461.58338		PI CURVE ON D NEAR MINNOWBROOK ROAD	
4				785921.89293	1560696.41090		CC CURVE ON D NEAR MINNOWBROOK ROAD	
4	17+47.57	D C.L.	0	785641.95129	1560556.24849		PT CURVE ON D NEAR MINNOWBROOK ROAD	
4	19+86.65	D C.L.	0	785578.92710	1560682.12458		END D NEAR MINNOWBROOK ROAD	
ALIGNMENTS								
7	140+38.60	D C.L.	0	778444.35846	1561431.46120		START D NEAR TONKA SPRING ROAD	
7	144+70.90	D C.L.	0	778444.14107	1560999.15909		PC CURVE ON D NEAR TONKA SPRING ROAD	
7	146+97.75	D C.L.	> 0	778444.02700	1560772.30900		PI CURVE ON D NEAR TONKA SPRING ROAD	
7				777871.18315	1560999.44721		CC CURVE ON D NEAR TONKA SPRING ROAD	
7	149+02.35	D C.L.	0	778288.65427	1560607.02049		PT CURVE ON D NEAR TONKA SPRING ROAD	
7	150+91.96	D C.L.	0	778158.78745	1560468.86566		END D NEAR TONKA SPRING ROAD	
ALIGNMENTS								
8	200+24.03 R1	D C.L.	0	778186.01608	1556046.58098		START D NEAR PEACEFUL VALLEY ROAD	
8	201+74.90 R1	D C.L.	0	778102.25132	1555921.10222		PC CURVE 1 ON NEAR PEACEFUL VALLEY ROAD	
8	202+97.60 R1	D C.L.	> 0	778034.12675	1555819.05232		PI CURVE 1 ON NEAR PEACEFUL VALLEY ROAD	
				778367.52418	1555744.01633		CC CURVE 1 ON NEAR PEACEFUL VALLEY ROAD	
8	204+08.20 R1	D C.L.	0	778051.96146	1555697.65602		PT CURVE 1 ON NEAR PEACEFUL VALLEY ROAD	
8	206+32.70 R1	D C.L.	0	778084.59345	1555475.53844		PC CURVE 2 ON D NEAR PEACEFUL VALLEY ROAD	
8	208+98.71 R1	D C.L.	> 0	778123.25824	1555212.35719		PI CURVE 2 ON D NEAR PEACEFUL VALLEY ROAD	
				777519.98404	1555212.35719		CC CURVE 2 ON D NEAR PEACEFUL VALLEY ROAD	
8	211+29.90 R1	D C.L.	0	777946.56104	1555013.51694		PT CURVE 2 ON D NEAR PEACEFUL VALLEY ROAD	
8	206+32.70 R1	D C.L.	0	778084.59345	1555475.53844		PC CURVE 2 ON D NEAR PEACEFUL VALLEY ROAD	
8	208+98.71 R1	D C.L.	> 0	778123.25824	1555212.35719		PI CURVE 2 ON D NEAR PEACEFUL VALLEY ROAD	
				777519.98404	1555212.35719		CC CURVE 2 ON D NEAR PEACEFUL VALLEY ROAD	
8	211+29.90 R1	D C.L.	0	777946.56104	1555013.51694		PT CURVE 2 ON D NEAR PEACEFUL VALLEY ROAD	
9	213+09.40 BK R1	D C.L.	0	777827.32749	1554879.34148		EQUATION ON D NEAR PEACEFUL VALLEY ROAD	
9	213+09.90 AH R2	D C.L.	0					
9	213+09.90 R2	D C.L.	0	777827.32749	1554879.34148		PC CURVE 4 ON D NEAR PEACEFUL VALLEY ROAD	
9	215+19.84 R2	D C.L.	> 0	777687.87237	1554722.41035		PI CURVE 4 ON D NEAR PEACEFUL VALLEY ROAD	
				777398.49304	1555260.42051		CC CURVE 4 ON D NEAR PEACEFUL VALLEY ROAD	
9	217+11.90 R2	D C.L.	0	777480.06470	1554692.55936		PT CURVE 4 ON D NEAR PEACEFUL VALLEY ROAD	
9	217+11.90 BK R2	D C.L.	0	777480.06470	1554692.55936		EQUATION ON D NEAR PEACEFUL VALLEY ROAD	
9	217+15.70 AH R2	D C.L.	0					
9	218+22.80 R3	D C.L.	0	777374.05444	1554677.33128		END D NEAR PEACEFUL VALLEY ROAD	



DATE PREPARED
6/25/2024

ROUTE STATE
D/E MO

DISTRICT SHEET NO.
CD 10

COUNTY
CAMDEN/LACLEDE

JOB NO.
J5S3336

CONTRACT ID.

PROJECT NO.

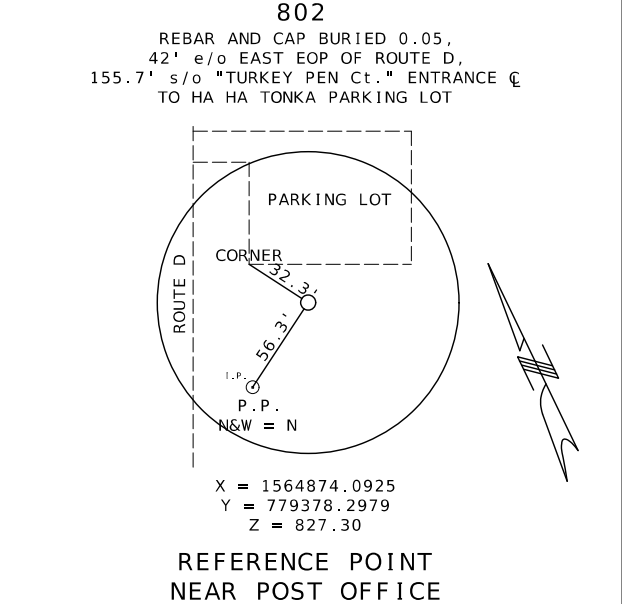
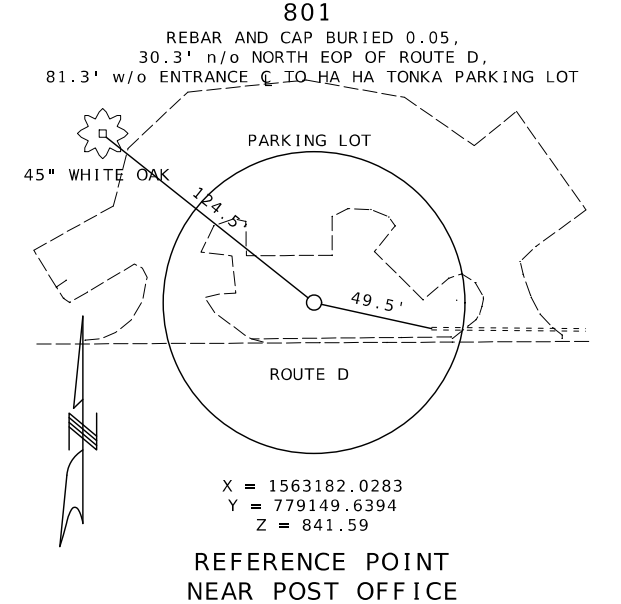
BRIDGE NO.

DESCRIPTION	DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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

COORDINATE POINTS
SHEET 1 OF 2



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								
ALIGNMENTS								
	95+80.00 R1	D C.L.	0	779953.33766	1564954.14427		START D NEAR POST OFFICE ROAD	
	97+99.10 R1	D C.L.	0	779736.76596	1564920.95532		PI ON D NEAR POST OFFICE ROAD	
	102+55.60 R1	D C.L.	0	779297.53446	1564796.58145		PC CURVE ON D NEAR POST OFFICE ROAD	
	103+76.38 R1	D C.L.	> 0	779181.32904	1564763.67643		PI CURVE ON D NEAR POST OFFICE ROAD	
				779384.61505	1564489.05272		CC CURVE ON D NEAR POST OFFICE ROAD	
	104+85.60 R1	D C.L.	0	779115.92254	1564662.14600		PT CURVE ON D NEAR POST OFFICE ROAD	
5	105+61.90 R1	D C.L.	0	779074.60076	1564598.00224		PC CURVE 1 ON D NEAR POST OFFICE ROAD	
5	106+25.59 R1	D C.L.	> 0	779040.10807	1564544.45927		PI CURVE 1 ON D NEAR POST OFFICE ROAD	
				779555.73706	1564288.05145		CC CURVE 1 ON D NEAR POST OFFICE ROAD	
5	106+88.60 R1	D C.L.	0	779018.23048	1564484.64317		PT CURVE 1 ON D NEAR POST OFFICE ROAD	
5	110+13.71 R1	D C.L.	0	778906.55568	1564179.31016		PC CURVE 2 ON D NEAR POST OFFICE ROAD	
5	111+82.98 R1	D C.L.	> 0	778848.41547	1564020.34749		PI CURVE 2 ON D NEAR POST OFFICE ROAD	
				779205.60141	1564069.93491		CC CURVE 2 ON D NEAR POST OFFICE ROAD	
5	113+23.57 R1	D C.L.	0	778947.65933	1563883.23414		PT CURVE 2 ON D NEAR POST OFFICE ROAD	
5	113+23.57 BK R1	D C.L.	0	778947.65933	1563883.23414		EQUATION ON D NEAR POST OFFICE ROAD	
5	113+33.60 AH R2	D C.L.	0					
5	114+29.60 R2	D C.L.	0	779003.94817	1563805.46660		PC CURVE 3 ON NEAR POST OFFICE ROAD	
5	114+98.32 R2	D C.L.	> 0	779044.24092	1563749.79893		PI CURVE 3 ON NEAR POST OFFICE ROAD	
				778694.19408	1563581.26385		CC CURVE 3 ON NEAR POST OFFICE ROAD	
5	115+65.20 R2	D C.L.	0	779062.62968	1563683.58527		PT CURVE 3 ON NEAR POST OFFICE ROAD	
6	118+01.00 R2	D C.L.	0	779125.72816	1563456.38238		PC CURVE 4 ON D NEAR POST OFFICE ROAD	
6	118+77.05 R2	D C.L.	> 0	779146.07674	1563383.11189		PI CURVE 4 ON D NEAR POST OFFICE ROAD	
				778817.77350	1563370.85763		CC CURVE 4 ON D NEAR POST OFFICE ROAD	
6	119+49.70 R2	D C.L.	0	779131.24696	1563308.52832		PT CURVE 4 ON D NEAR POST OFFICE ROAD	
6	119+49.70 BK R2	D C.L.	0	779131.24696	1563308.52832		EQUATION ON D NEAR POST OFFICE ROAD	
6	119+50.10 AH R3	D C.L.	0					
6	122+37.50 R3	D C.L.	0	779075.19892	1563026.64532		PI ON D NEAR POST OFFICE ROAD	
6	125+71.30 R3	D C.L.	0	779040.13833	1562694.69172		PI ON D NEAR POST OFFICE ROAD	
6	128+66.80 R3	D C.L.	0	779039.04238	1562399.19375		END D NEAR POST OFFICE ROAD	
5	10+00.00	CO B.L.	0	778935.18600	1563884.22300		START B.L. NEAR POST OFFICE ROAD	
5	11+05.53	CO B.L.	0	778995.79351	1563797.83045		PC CURVE 11 ON B.L. NEAR POST OFFICE ROAD	
5	12+12.21	CO B.L.	> 0	779057.05978	1563710.49888		PI CURVE 11 ON B.L. NEAR POST OFFICE ROAD	
				778526.74682	1563468.77716		CC CURVE 11 ON B.L. NEAR POST OFFICE ROAD	
5	13+16.47	CO B.L.	0	779082.78975	1563606.96953		PT CURVE 11 ON B.L. NEAR POST OFFICE ROAD	
6	14+68.11	CO B.L.	0	779119.36386	1563459.80670		PC CURVE 12 ON B.L. NEAR POST OFFICE ROAD	
6	15+49.41	CO B.L.	> 0	779138.97202	1563380.90962		PI CURVE 12 ON B.L. NEAR POST OFFICE ROAD	
				778748.66858	1563367.67846		CC CURVE 12 ON B.L. NEAR POST OFFICE ROAD	
6	16+28.32	CO B.L.	0	779124.75191	1563300.86578		PT CURVE 12 ON B.L. NEAR POST OFFICE ROAD	
6	20+06.53	CO B.L.	0	779058.59753	1562928.48793		PC CURVE 13 ON B.L. NEAR POST OFFICE ROAD	
6	21+36.17	CO B.L.	> 0	779035.92147	1562800.84615		PI CURVE 13 ON B.L. NEAR POST OFFICE ROAD	
				780939.01420	1562594.42454		CC CURVE 13 ON B.L. NEAR POST OFFICE ROAD	
6	22+65.41	CO B.L.	0	779030.70246	1562671.31085		PT CURVE 13 ON B.L. NEAR POST OFFICE ROAD	
6	22+76.80	CO B.L.	0	779030.24405	1562659.93312		END B.L. NEAR POST OFFICE ROAD	
SS	0+00.00	DWY_01	0	779119.58736	1563271.79494		START B.L. DRIVEWAY AT STA 16+57.84	
SS	0+28.99	DWY_01	0	779148.12994	1563266.72429		PC CURVE ON B.L. DRIVEWAY AT STA 16+57.84	
SS	0+45.48	DWY_01	> 0	779164.36150	1563263.84072		PI CURVE ON B.L. DRIVEWAY AT STA 16+57.84	
				779140.78981	1563225.40681		CC CURVE ON B.L. DRIVEWAY AT STA 16+57.84	
SS	0+60.41	DWY_01	0	779174.29012	1563250.68014		PT CURVE ON B.L. DRIVEWAY AT STA 16+57.84	
SS	0+79.23	DWY_01	0	779185.62634	1563235.65375		END B.L. DRIVEWAY AT STA 16+57.84	
SS	0+00.00	DWY_02	0	779089.11038	1563100.24241		START B.L. DRIVEWAY AT STA 18+32.08	
SS	0+65.57	DWY_02	0	779153.67283	1563088.77276		END B.L. DRIVEWAY AT STA 18+32.08	



DATE PREPARED
6/25/2024

ROUTE STATE
D/E MO
DISTRICT SHEET NO.
CD 11

COUNTY
CAMDEN/LACLEDE

JOB NO.
J5S3336

CONTRACT ID.

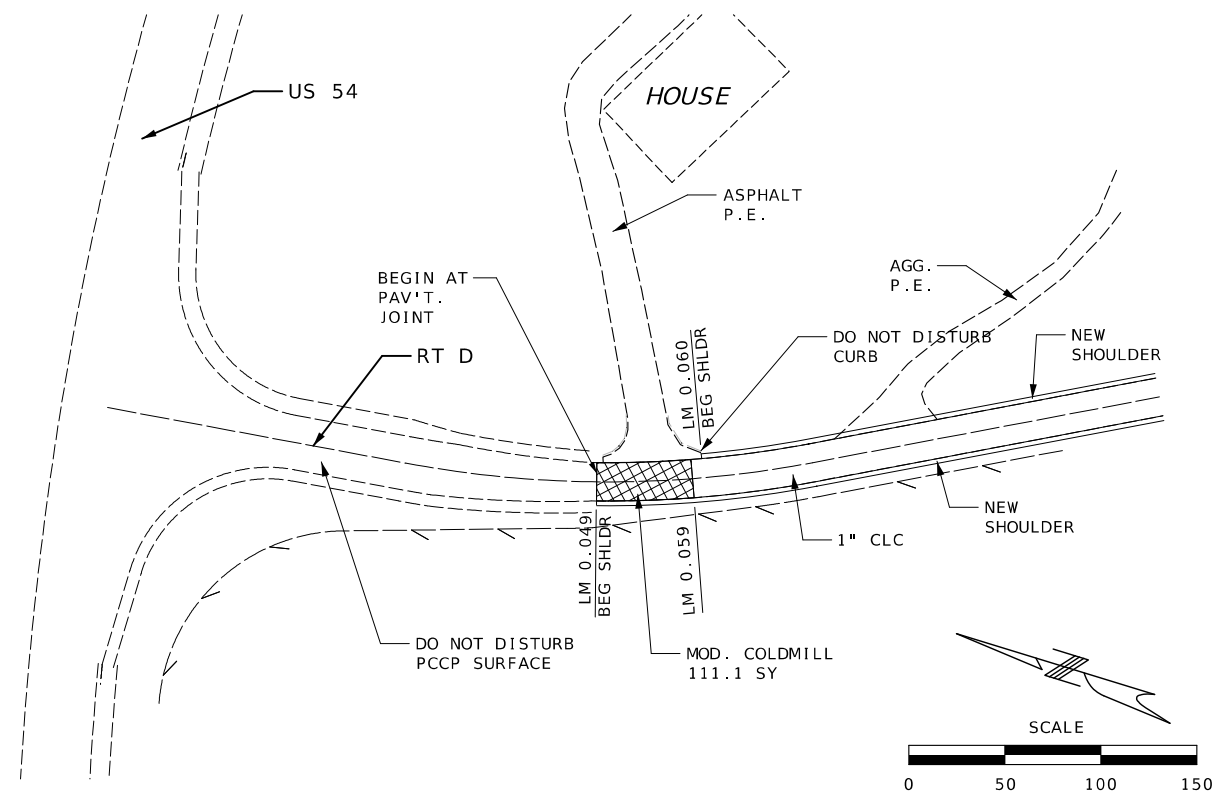
PROJECT NO.

BRIDGE NO.

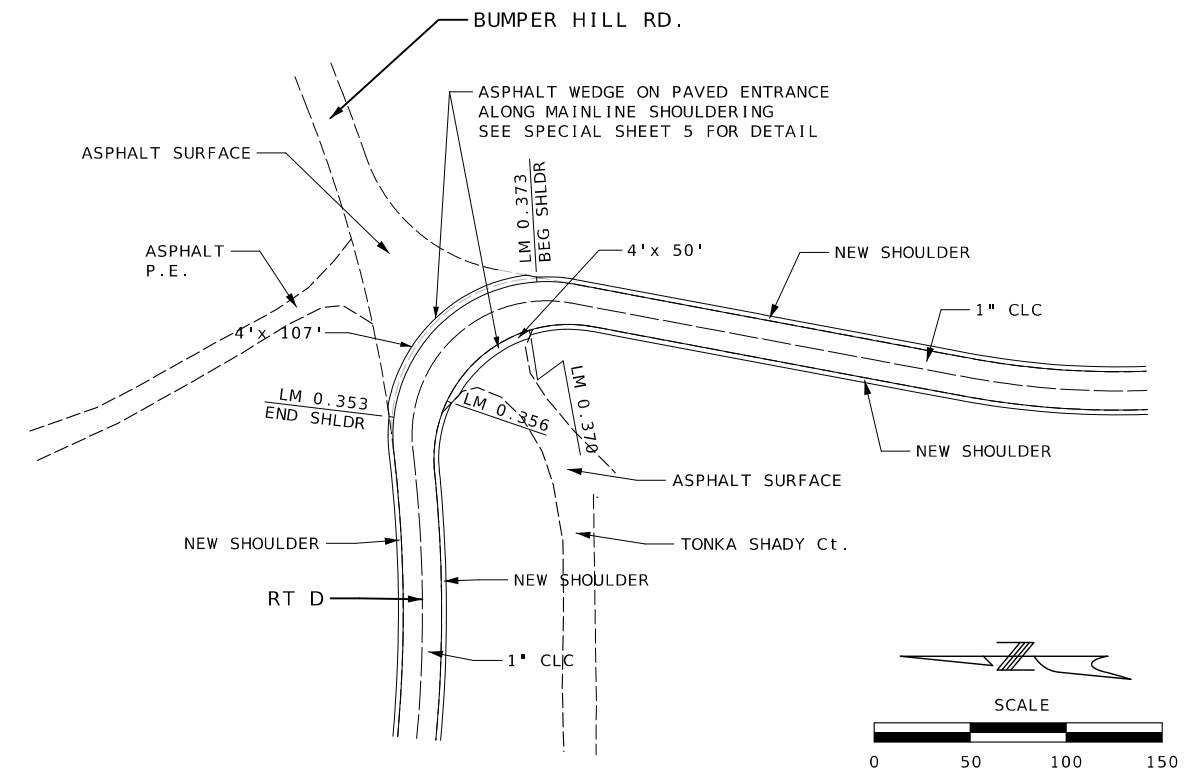
DESCRIPTION	DATE



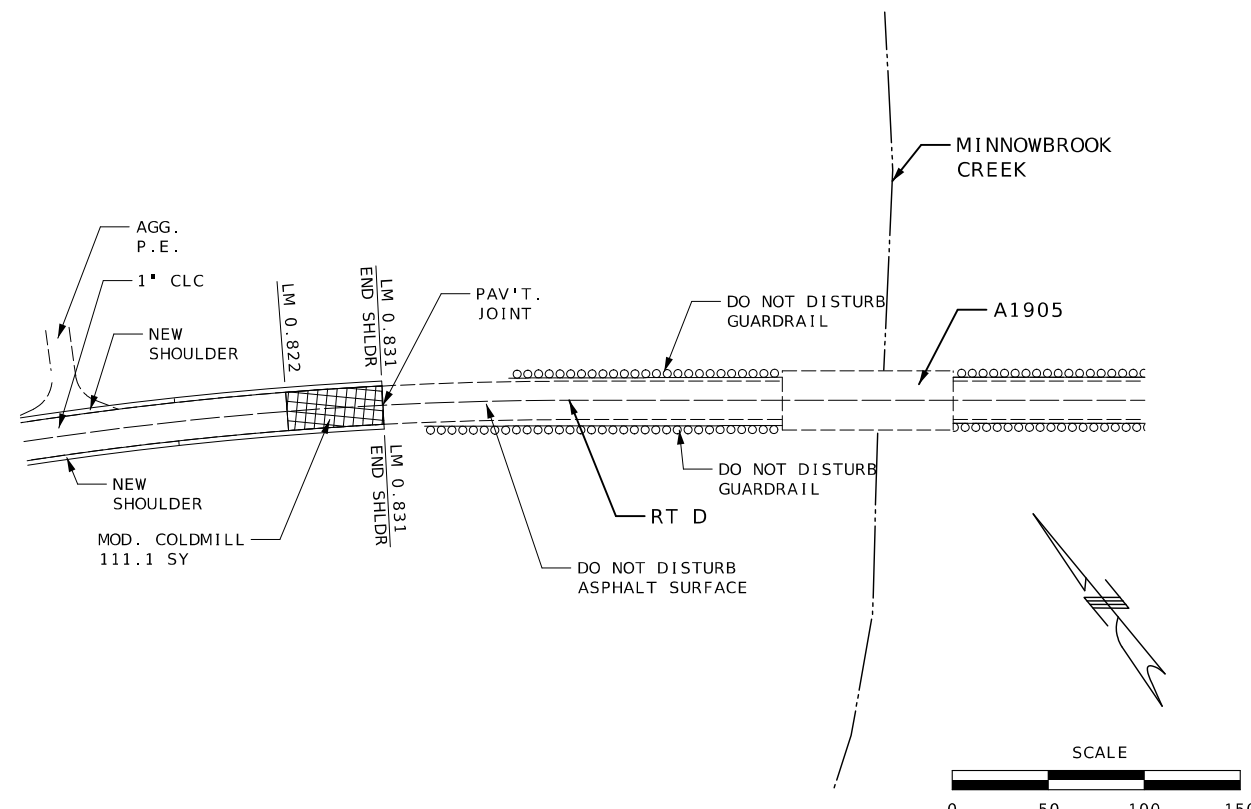
COORDINATE POINTS
SHEET 2 OF 2



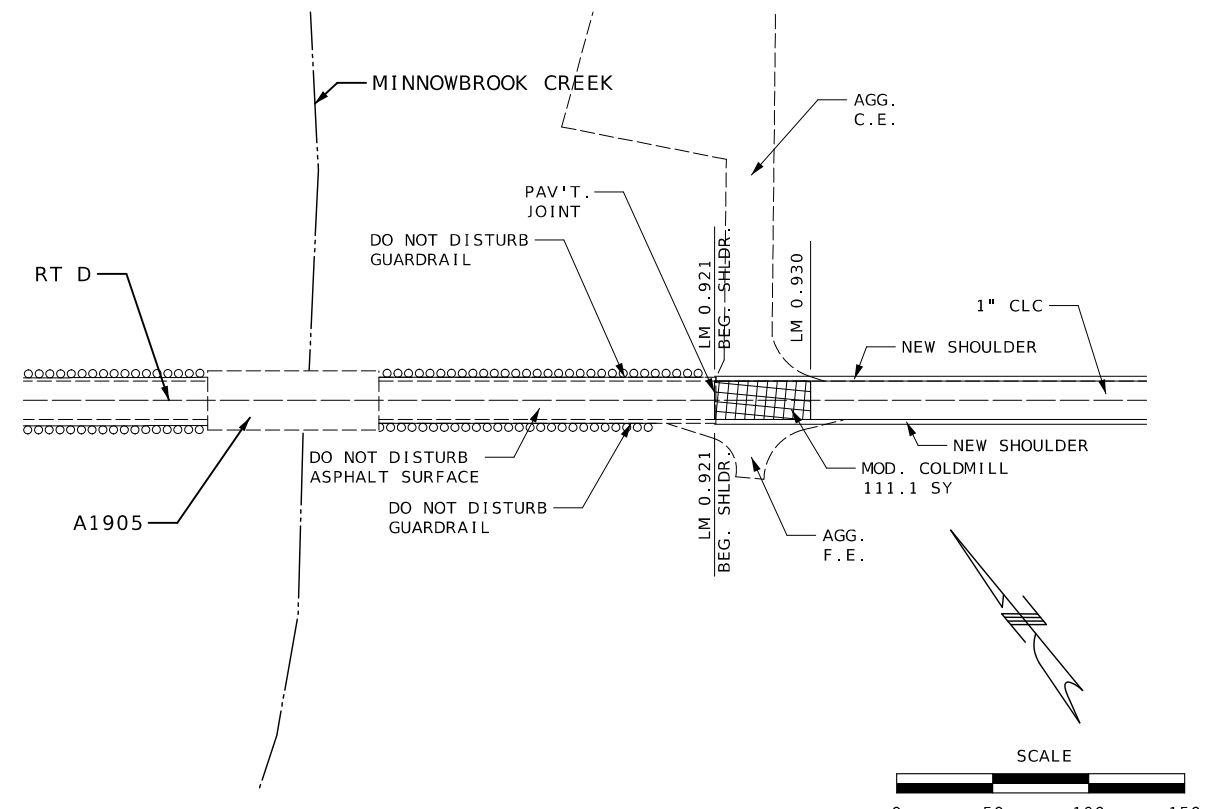
SCALE
0 50 100 150
**ROUTE D
BEGIN PROJECT**



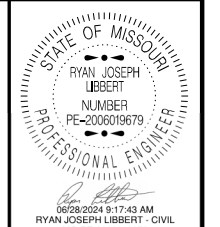
SCALE
0 50 100 150
**ROUTE D
BUMPER HILL ROAD
INTERSECTION**



SCALE
0 50 100 150
**ROUTE D
APPROACH TO
BRIDGE A1905**



SCALE
0 50 100 150
**ROUTE D
DEPARTURE FROM
BRIDGE A1905**



DATE PREPARED 6/25/2024	
ROUTE D/E	STATE MO
DISTRICT CD	SHEET NO. 12
COUNTY CAMDEN/LACLEDE	
JOB NO. J553336	
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)

**ROUTE D DETAILS
SPECIAL SHEET 1 OF 7**



DATE PREPARED
6/28/2024

ROUTE STATE
D/E MO
DISTRICT SHEET NO.
CD 13

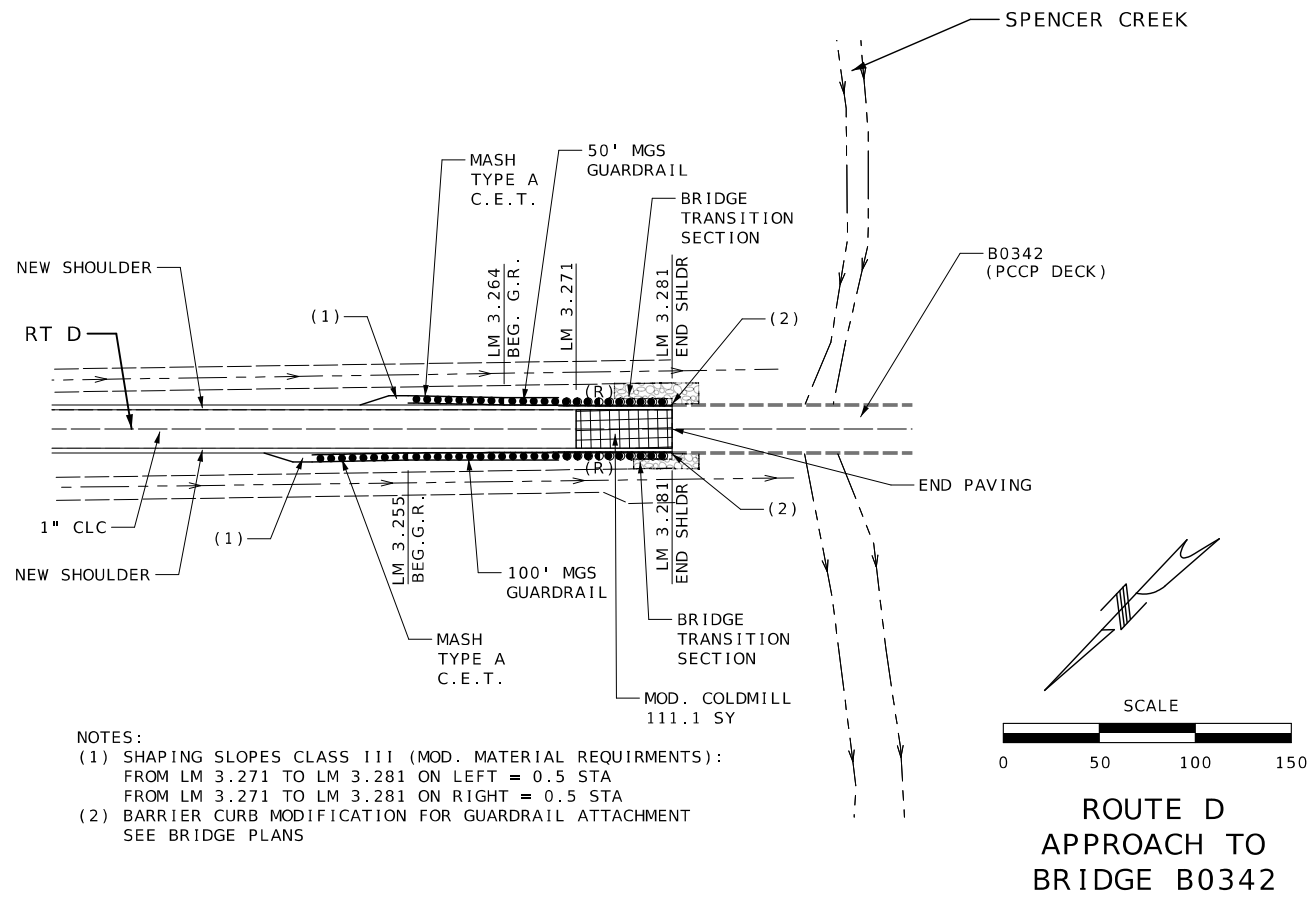
COUNTY
CAMDEN/LACLEDE
JOB NO.
J5S3336
CONTRACT ID.

PROJECT NO.
BRIDGE NO.

DATE	DESCRIPTION

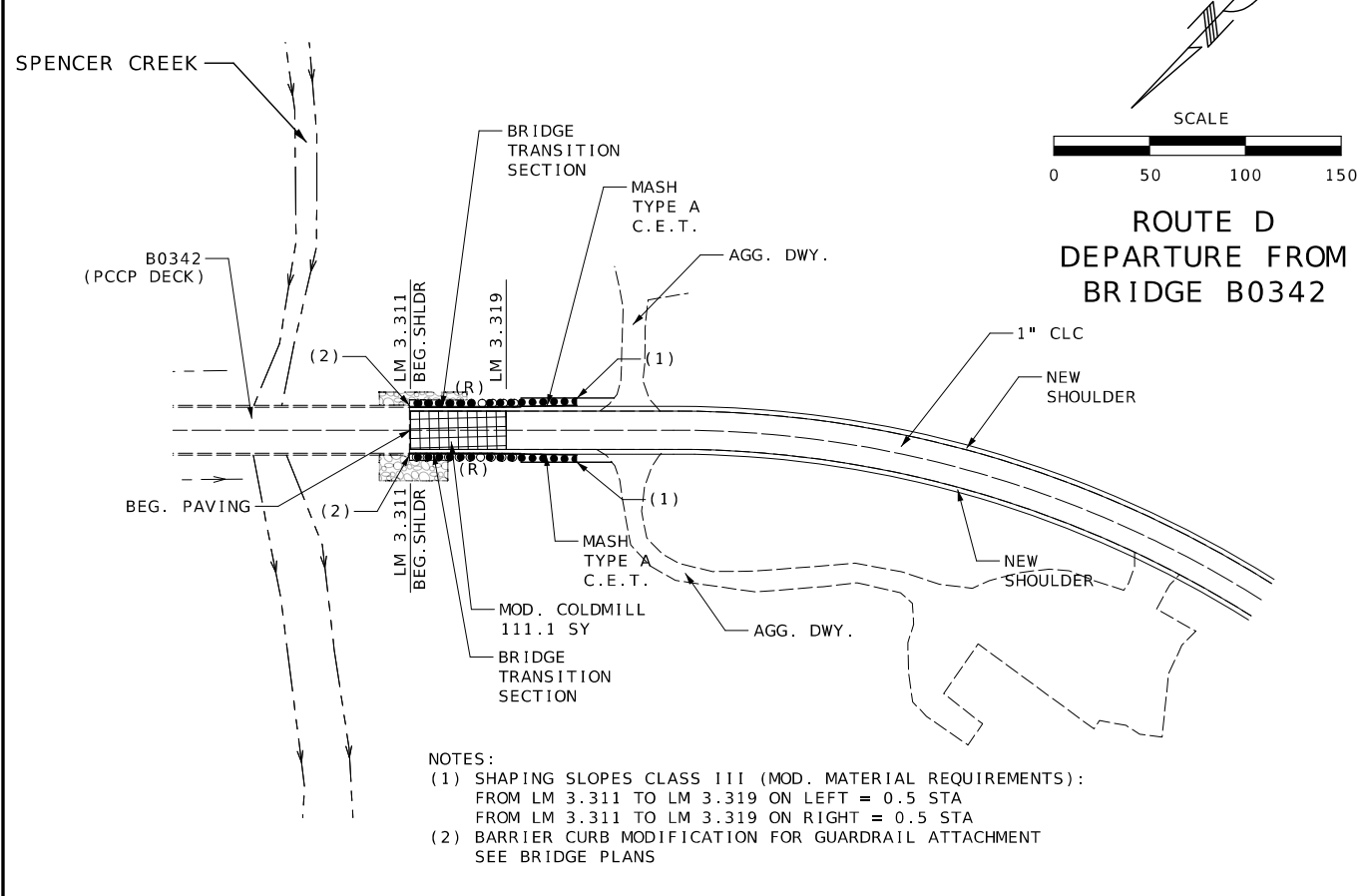
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

ROUTE D DETAILS
SPECIAL SHEET 2 OF 7



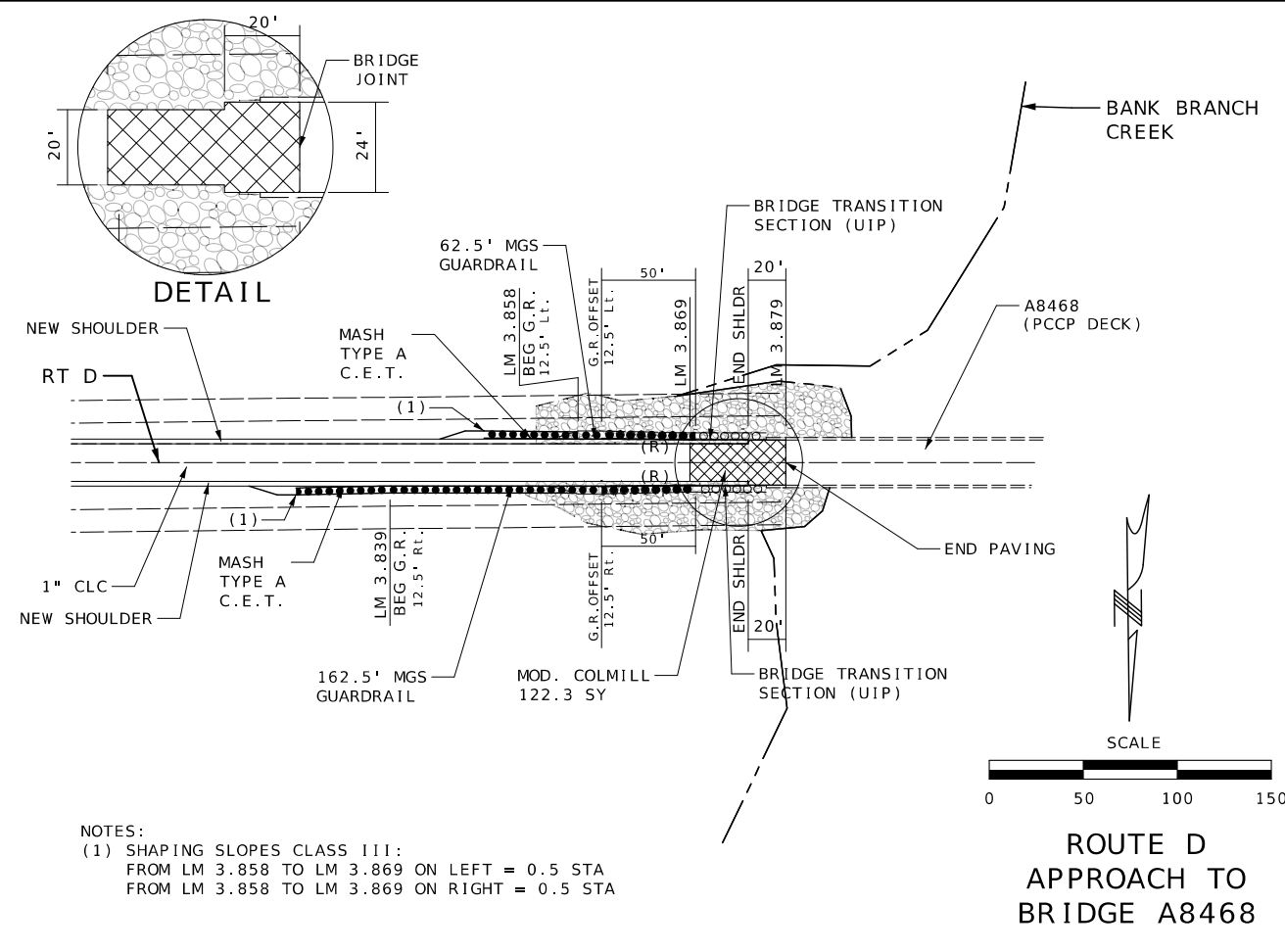
- NOTES:
(1) SHAPING SLOPES CLASS III (MOD. MATERIAL REQUIREMENTS):
FROM LM 3.271 TO LM 3.281 ON LEFT = 0.5 STA
FROM LM 3.271 TO LM 3.281 ON RIGHT = 0.5 STA
(2) BARRIER CURB MODIFICATION FOR GUARDRAIL ATTACHMENT
SEE BRIDGE PLANS

ROUTE D
APPROACH TO
BRIDGE B0342



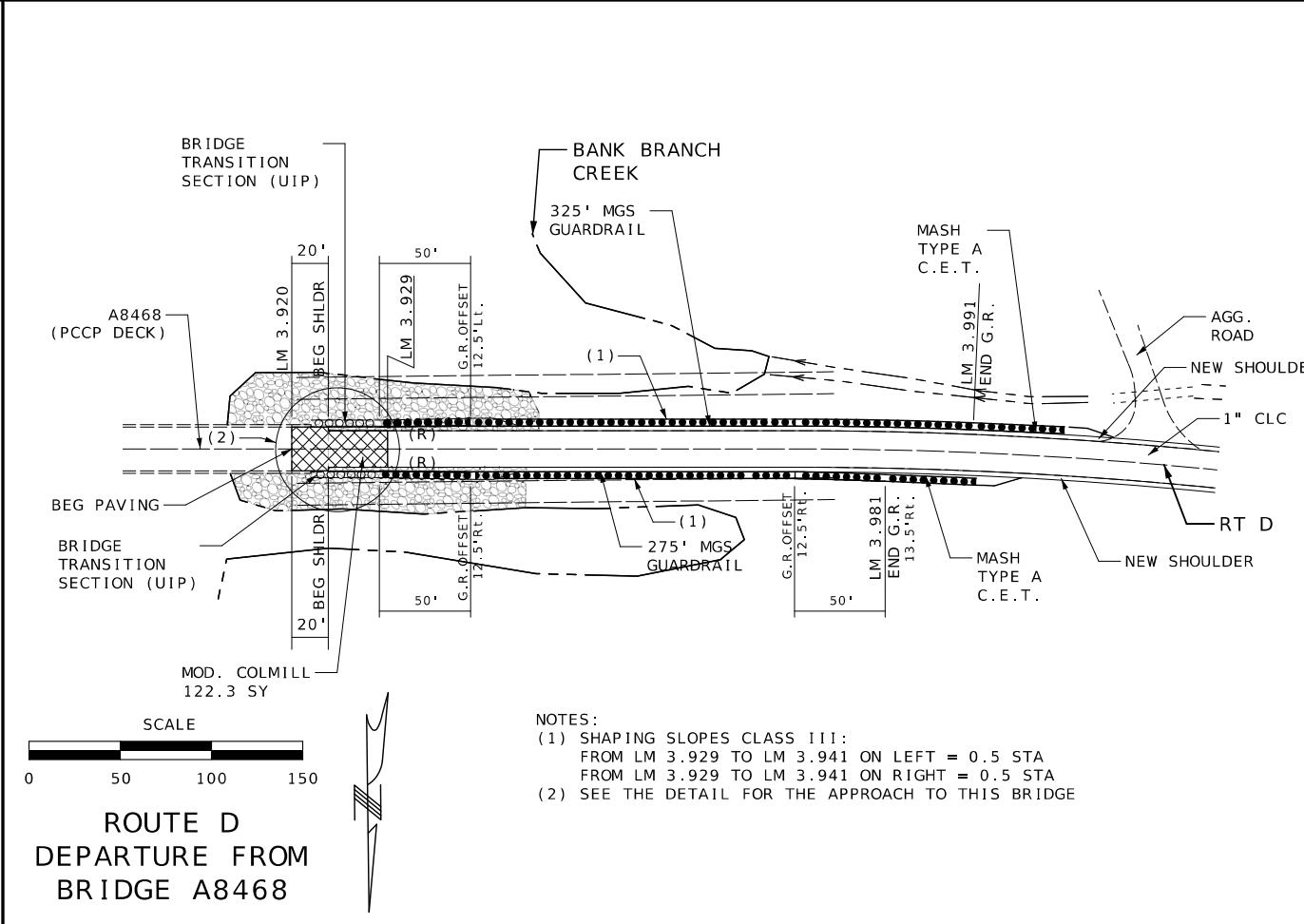
- NOTES:
(1) SHAPING SLOPES CLASS III (MOD. MATERIAL REQUIREMENTS):
FROM LM 3.311 TO LM 3.319 ON LEFT = 0.5 STA
FROM LM 3.311 TO LM 3.319 ON RIGHT = 0.5 STA
(2) BARRIER CURB MODIFICATION FOR GUARDRAIL ATTACHMENT
SEE BRIDGE PLANS

ROUTE D
DEPARTURE FROM
BRIDGE B0342



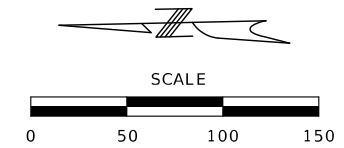
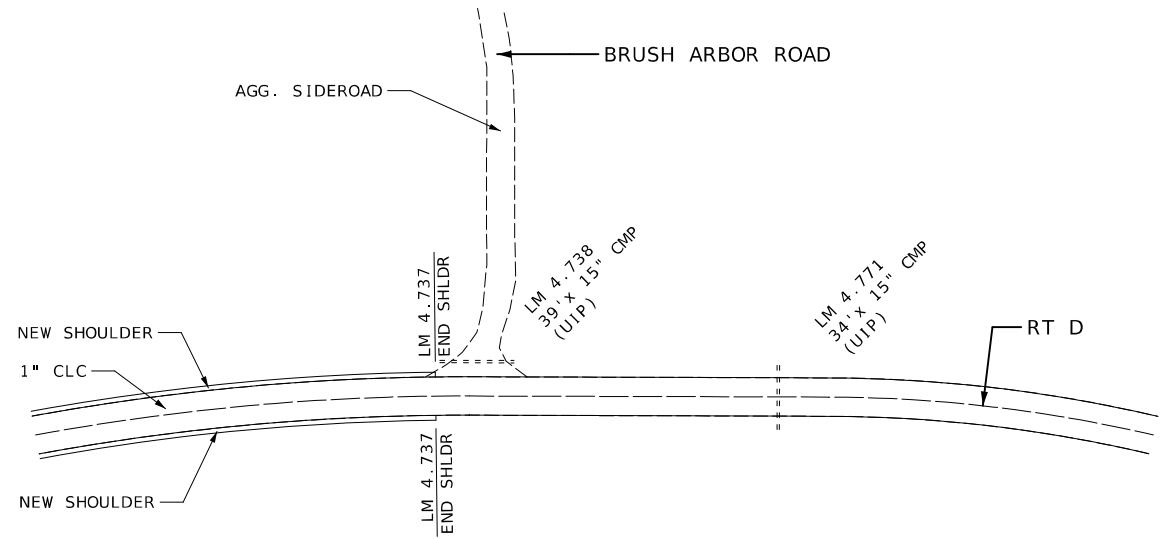
- NOTES:
(1) SHAPING SLOPES CLASS III:
FROM LM 3.858 TO LM 3.869 ON LEFT = 0.5 STA
FROM LM 3.858 TO LM 3.869 ON RIGHT = 0.5 STA

ROUTE D
APPROACH TO
BRIDGE A8468

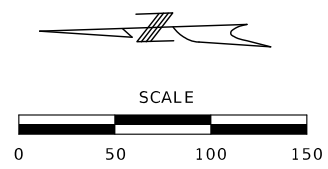
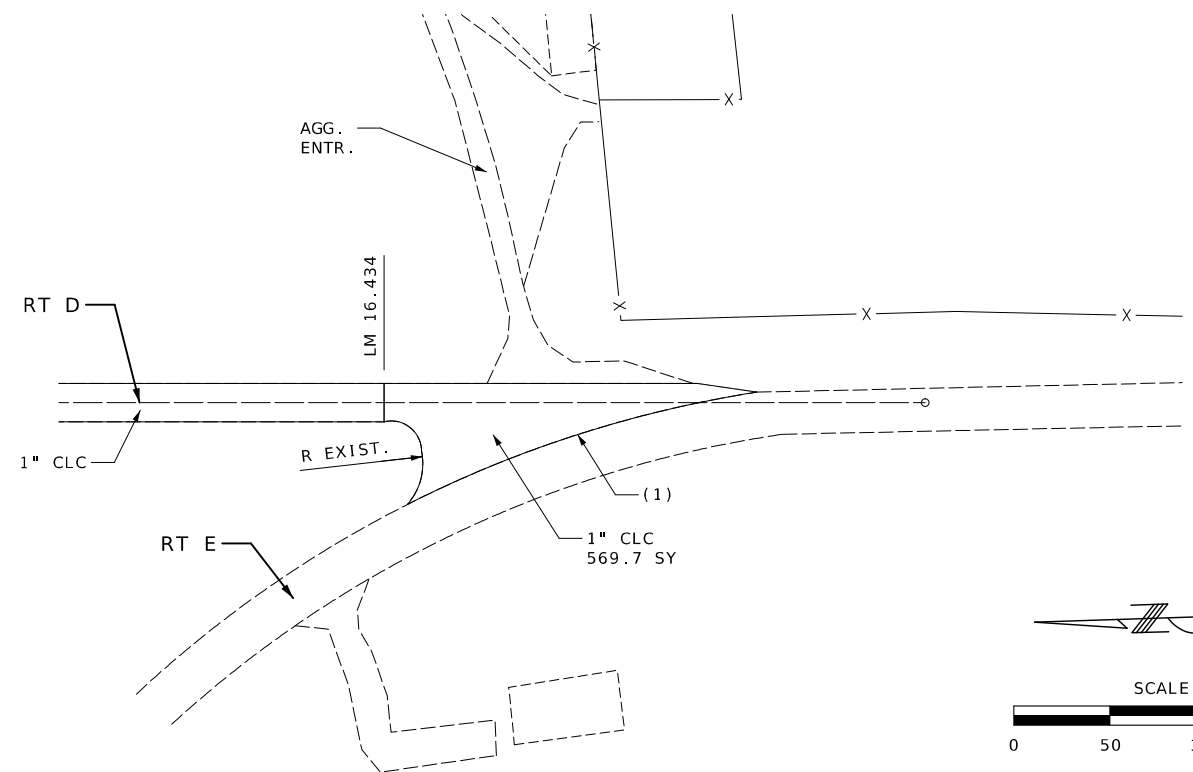


- NOTES:
(1) SHAPING SLOPES CLASS III:
FROM LM 3.929 TO LM 3.941 ON LEFT = 0.5 STA
FROM LM 3.929 TO LM 3.941 ON RIGHT = 0.5 STA
(2) SEE THE DETAIL FOR THE APPROACH TO THIS BRIDGE

ROUTE D
DEPARTURE FROM
BRIDGE A8468

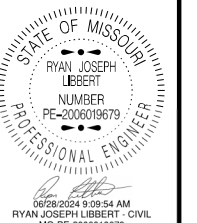


**ROUTE D
END SHOULDERING
BRUSH ARBOR RD.
INTERSECTION**



NOTES:
(1) OFFSET ROUTE D EDGE OF PAVEMENT 10' LEFT
OF CENTER OF ROUTE E PAVEMENT

**ROUTE D
AT ROUTE E
INTERSECTION**

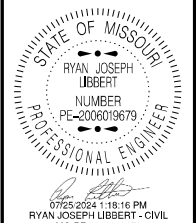


DATE PREPARED
6/28/2024
ROUTE STATE
D/E MO
DISTRICT SHEET NO.
CD 14
COUNTY
CAMDEN/LACLEDE
JOB NO.
J553336
CONTRACT ID.
PROJECT NO.
BRIDGE NO.

DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-273-6636)



DATE PREPARED
7/23/2024

ROUTE STATE
D/E MO
DISTRICT SHEET NO.
CD 15

COUNTY
CAMDEN/LACLEDE
JOB NO.
J5S3336
CONTRACT ID.

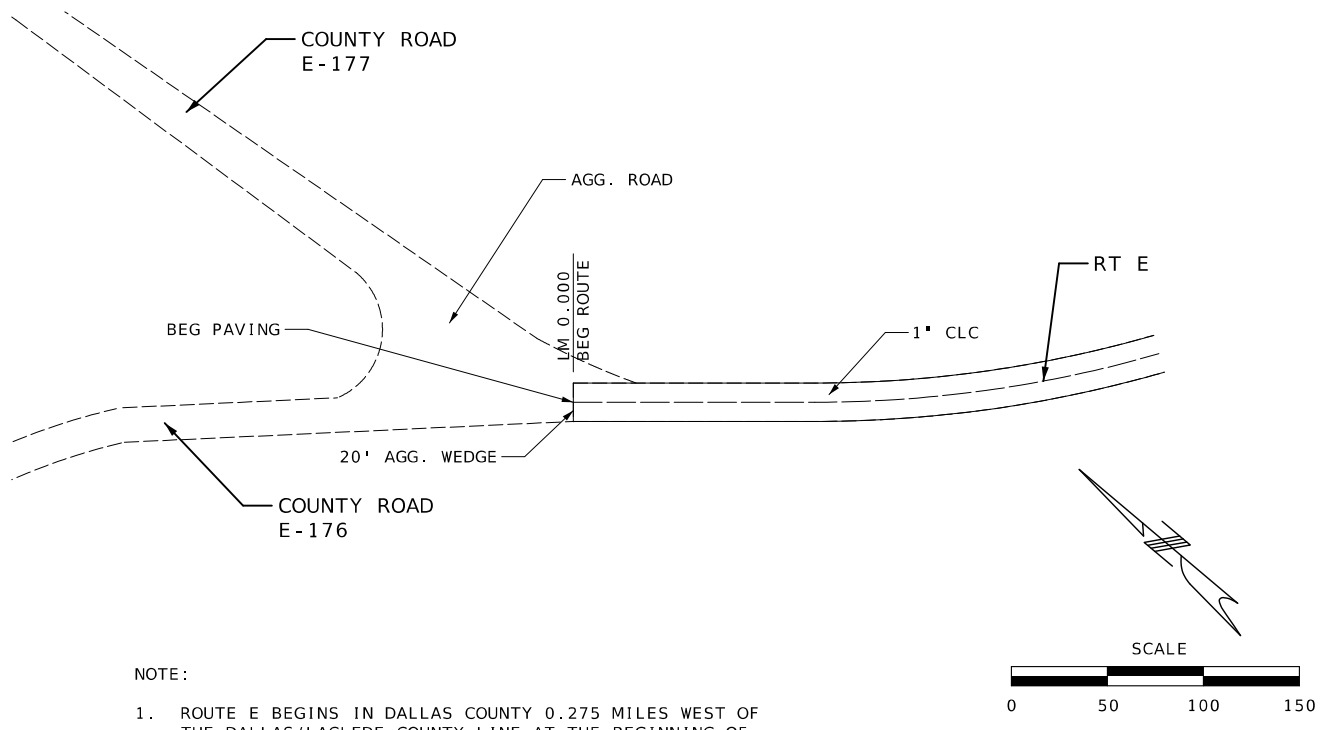
PROJECT NO.
BRIDGE NO.

DATE	DESCRIPTION

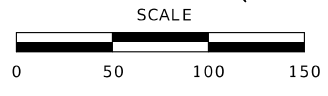
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-273-6636)

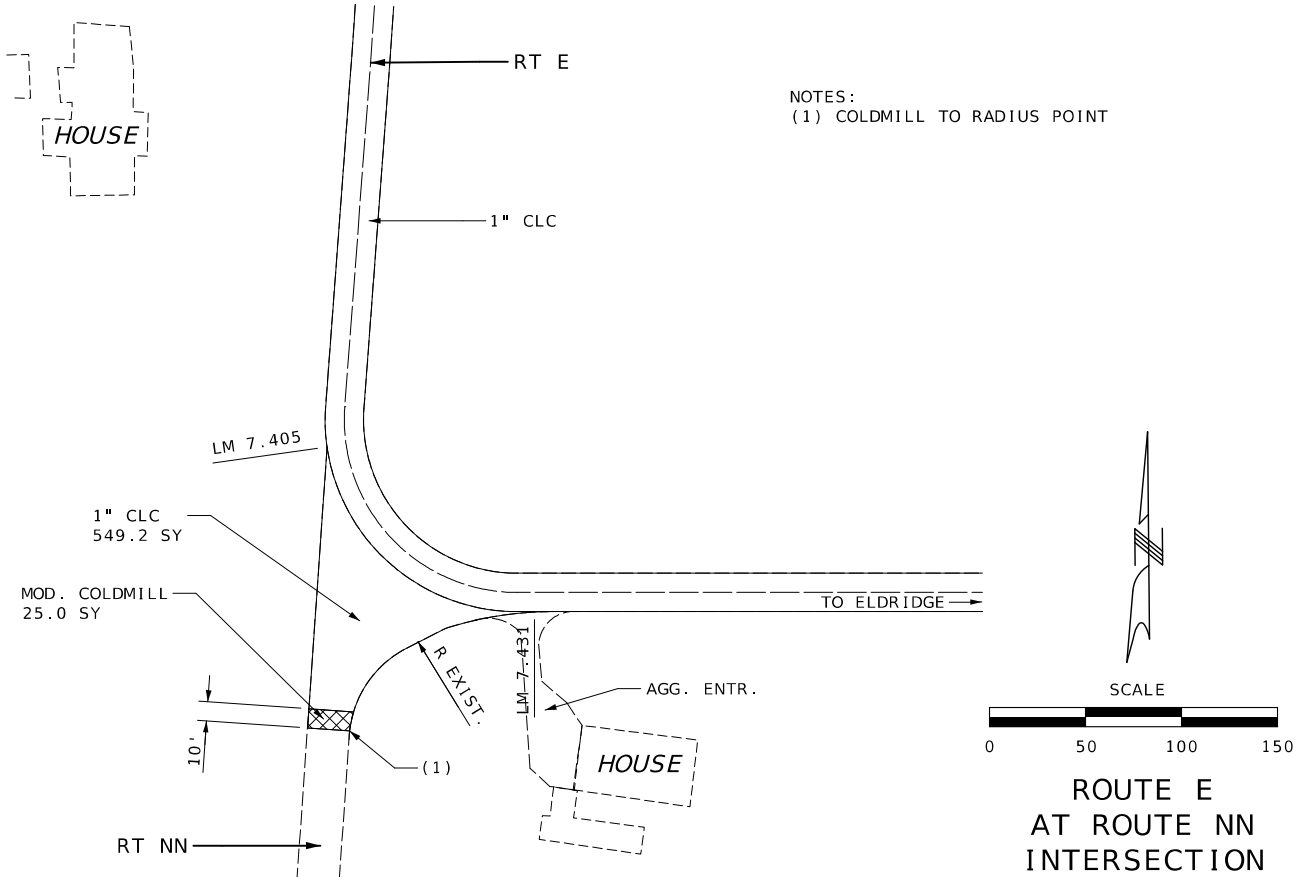
ROUTE E DETAILS
SPECIAL SHEET 4 OF 7



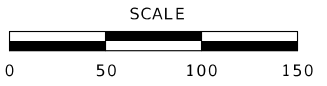
NOTE:
1. ROUTE E BEGINS IN DALLAS COUNTY 0.275 MILES WEST OF THE DALLAS/LACLEDE COUNTY LINE AT THE BEGINNING OF STATE MAINTENANCE.



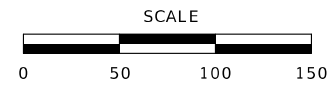
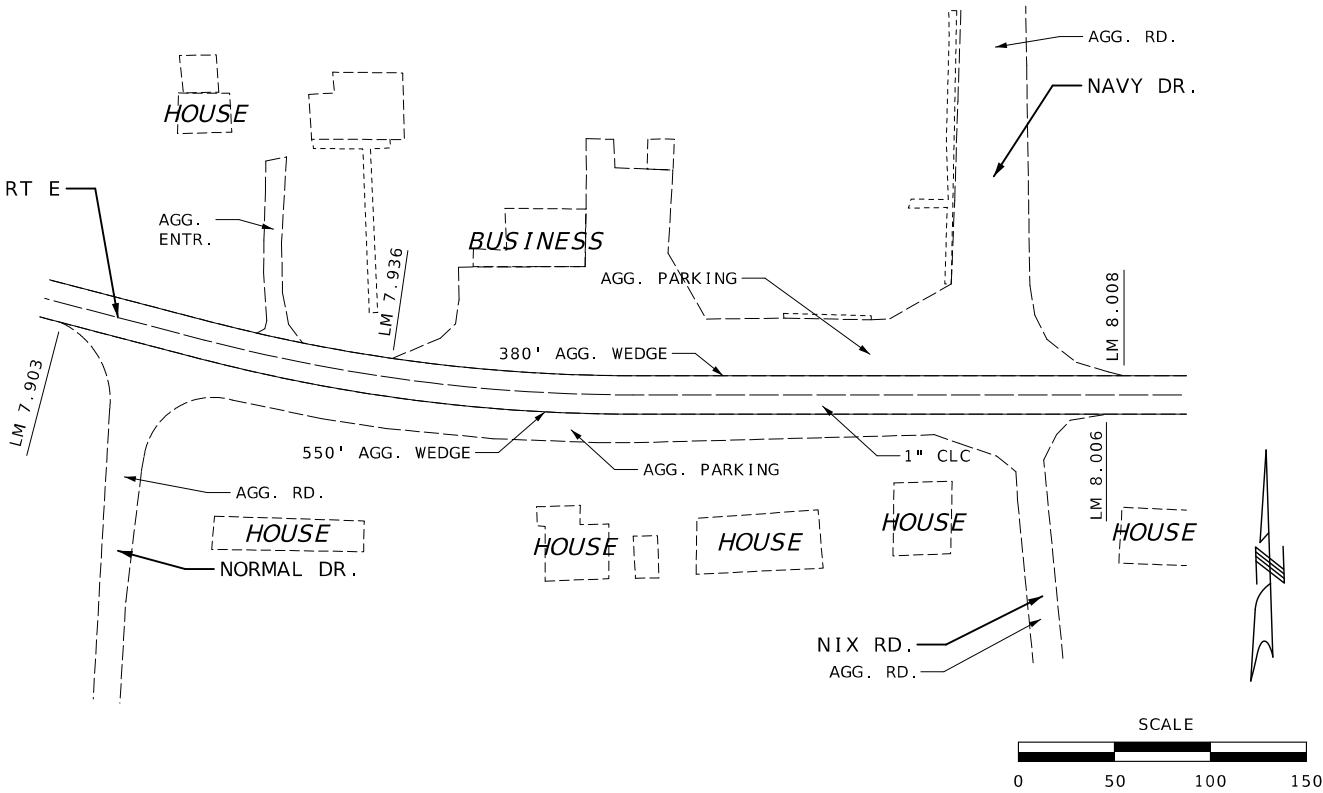
ROUTE E BEGIN ROUTE



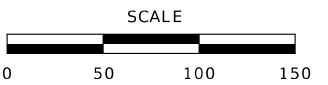
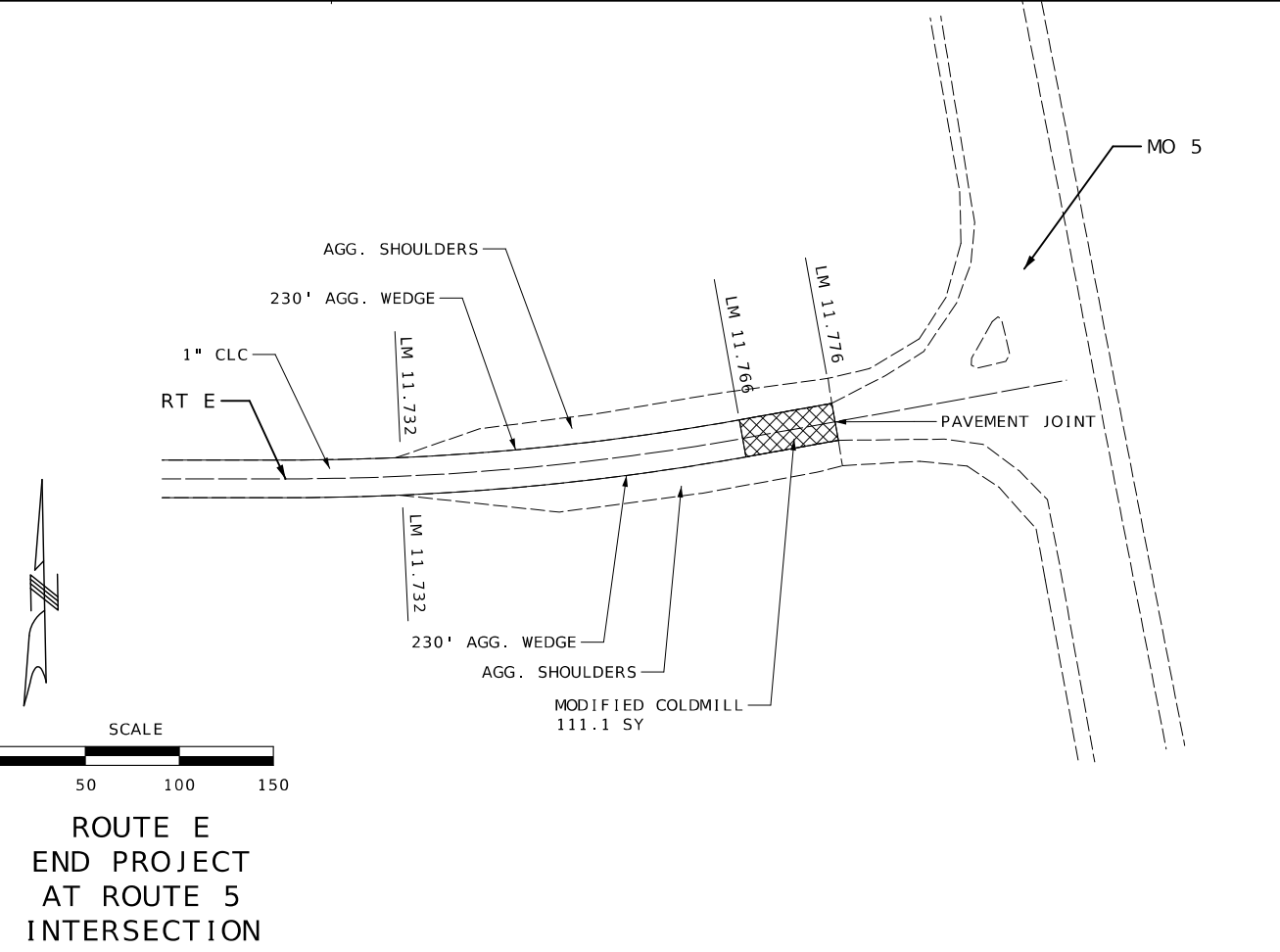
NOTES:
(1) COLDMILL TO RADIUS POINT



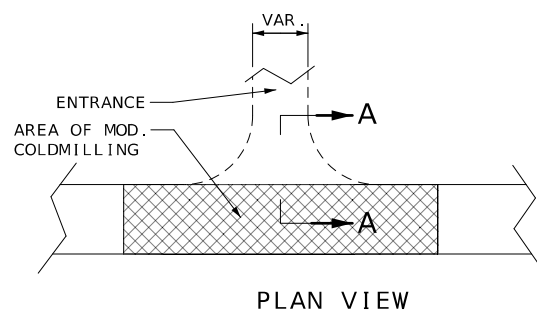
ROUTE E AT ROUTE NN INTERSECTION



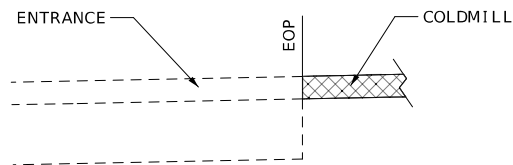
ROUTE E IN ELDRIDGE



ROUTE E END PROJECT AT ROUTE 5 INTERSECTION



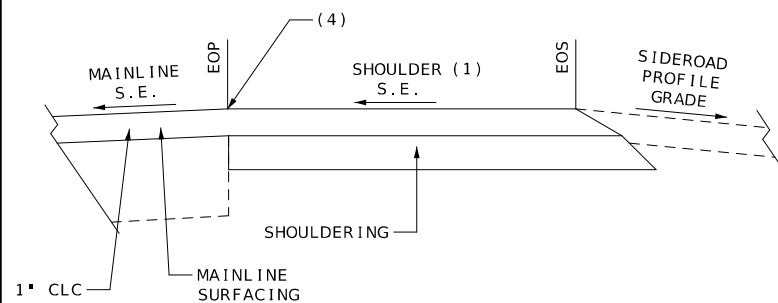
PLAN VIEW



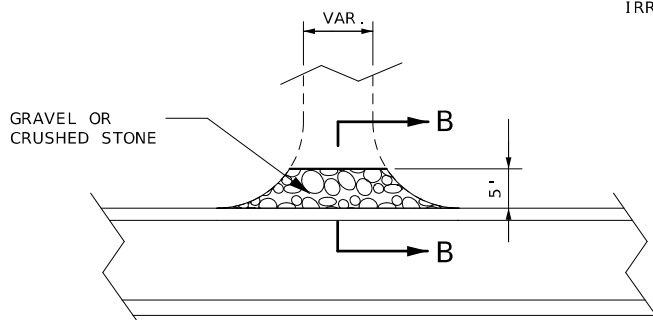
SECTION A-A

DETAIL - PAVED ENTRANCES WITHIN MODIFIED COLDMILL AREAS

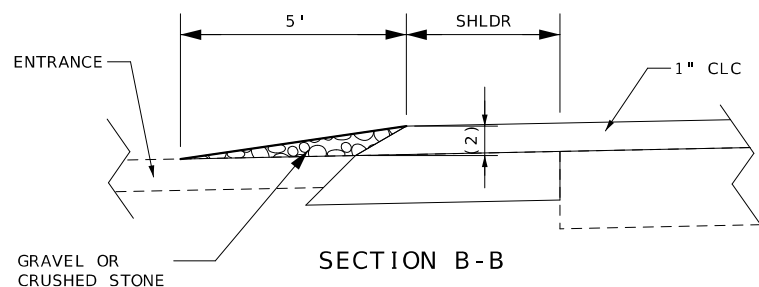
- (3) THE SHOULDER CROSS SLOPE MAY BE ADJUSTED TO MATCH SIDEROADS OR ENTRANCES WITHIN MAINLINE SUPERELEVATED SECTIONS.
- (4) THE ALGEBRAIC DIFFERENCE BETWEEN THE MAINLINE S.E. AND THE SHOULDER S.E. SHALL NOT EXCEED 13%.



DETAIL - SHOULDER SLOPE AT SIDEROAD INTERSECTION WITHIN MAINLINE SUPERELEVATION

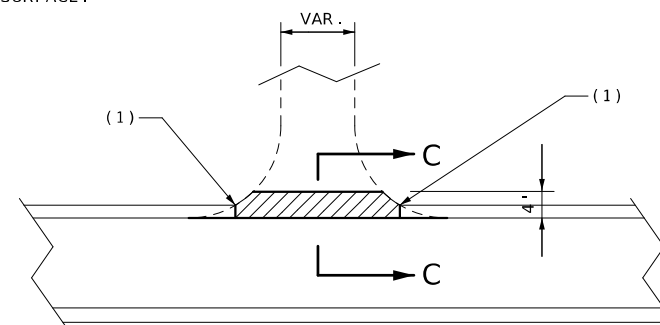


PLAN VIEW

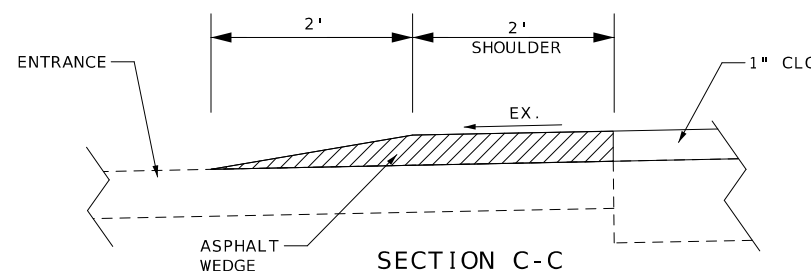


DETAIL - AGGREGATE WEDGE ON AGGREGATE ENTRANCES

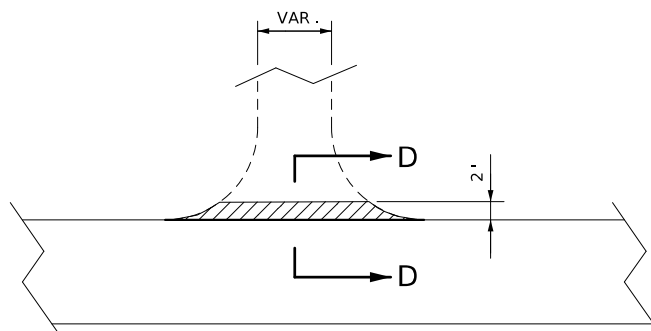
- (1) SHOULDERING TERMINATION POINT AT INTERSECTION OF PAVED SIDEROAD/DRIVEWAY AND BACK OF SHOULDER.
- (2) ESTIMATED WEDGE THICKNESS = 2.5" TO ACCOUNT FOR IRREGULARITIES IN THE EXISTING DRIVEWAY SURFACE.



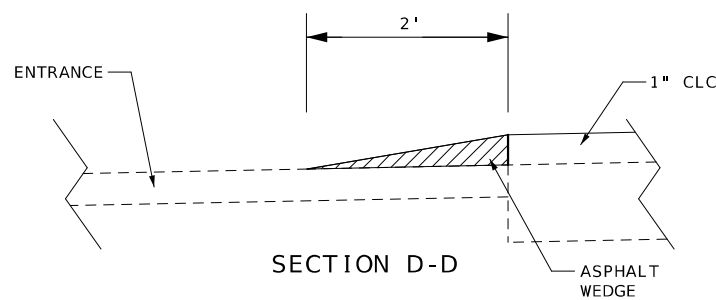
PLAN VIEW



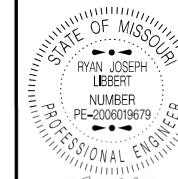
DETAIL - ASPHALT WEDGE ON PAVED ENTRANCE ALONG MAINLINE SHOULDERING



PLAN VIEW



DETAIL - ASPHALT WEDGE ON PAVED ENTRANCES ALONG MAINLINE WITH NO SHOULDERING



DATE PREPARED
6/25/2024

ROUTE STATE
D/E MO

DISTRICT SHEET NO.
CD 16

COUNTY
CAMDEN/LACLEDE

JOB NO.
J553336

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION

DATE

DATE

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DATE

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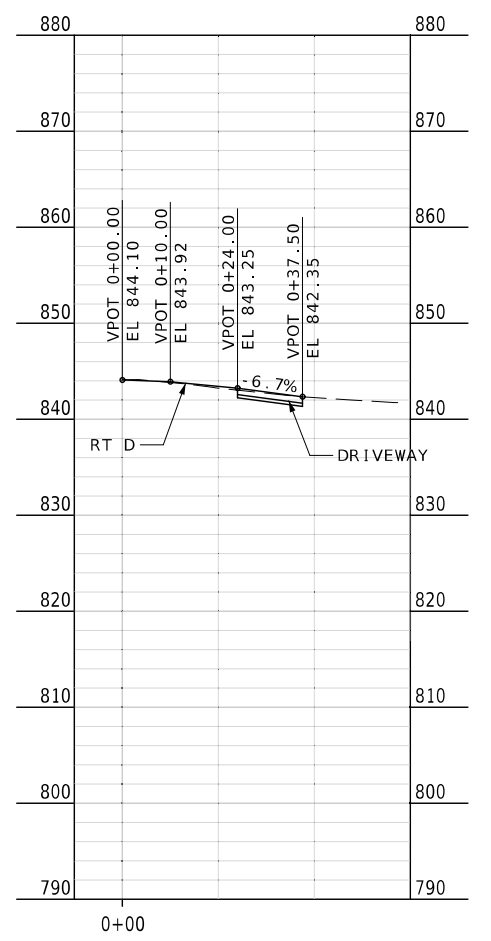
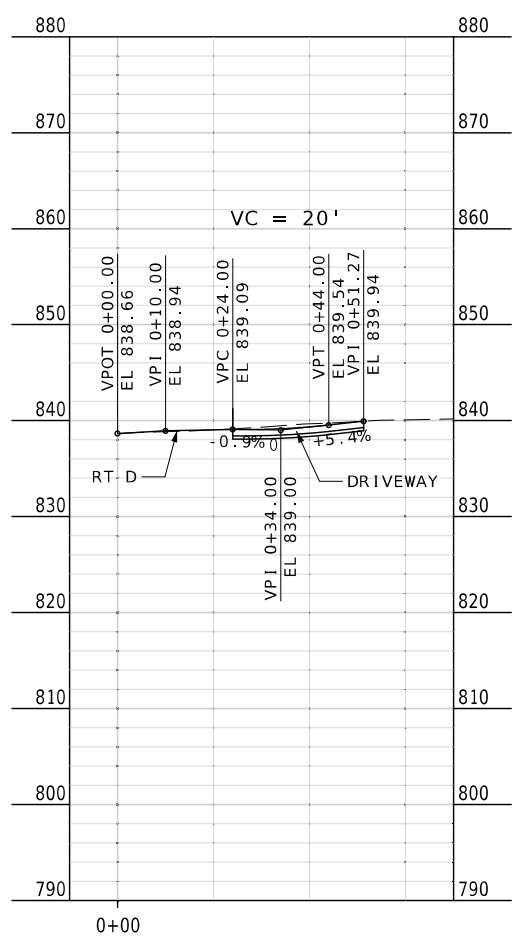
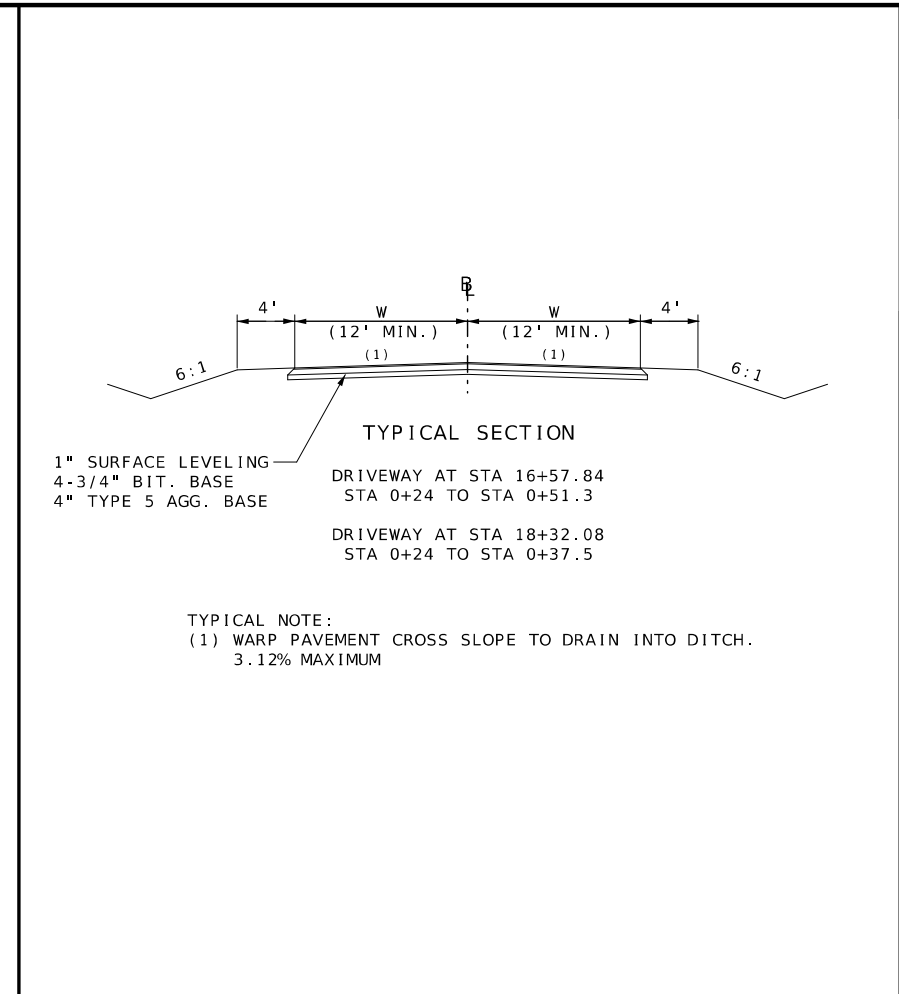
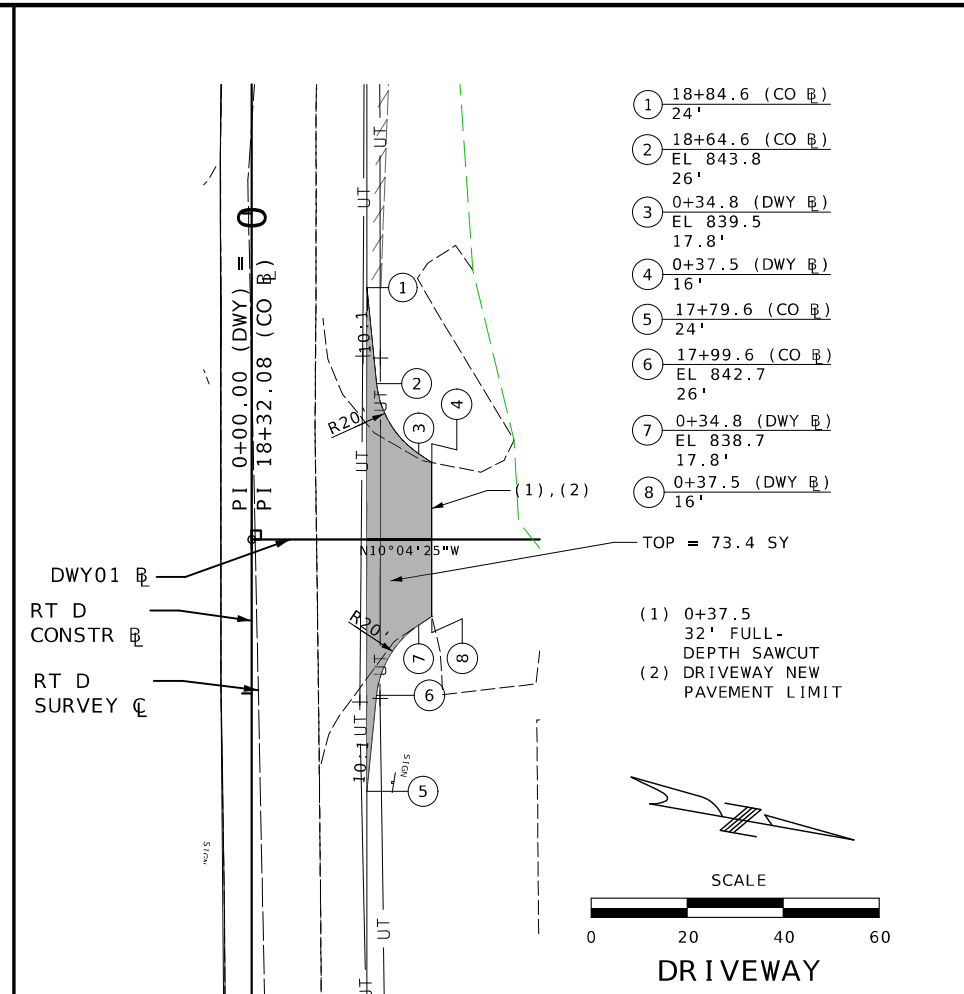
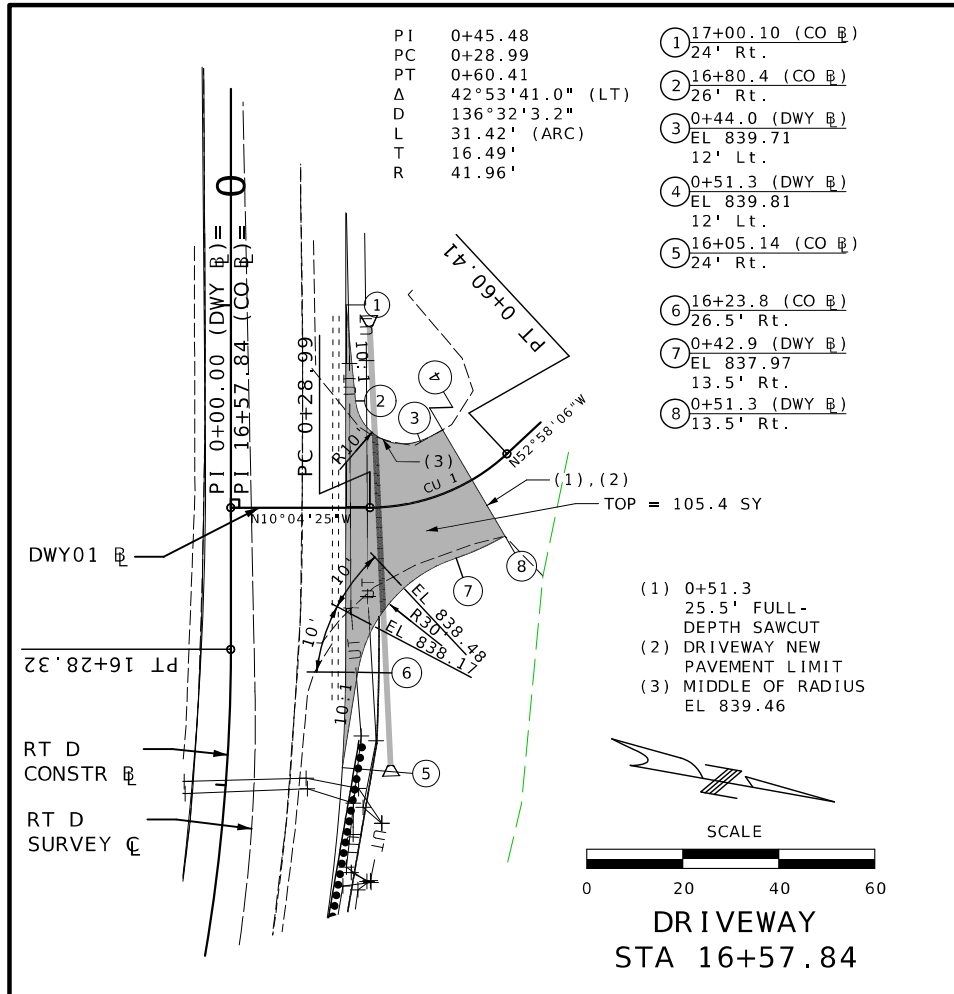
DATE

DATE

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

SHOULDERING DETAILS
SPECIAL SHEET 5 OF 7

REV.



STATE OF MISSOURI
 RYAN JOSEPH LIBBERT
 NUMBER
 PE-2006019679
 PROFESSIONAL ENGINEER
 06/28/2024 9:12:24 AM
 RYAN JOSEPH LIBBERT - CIVIL
 MO-PE-2006019679

DATE PREPARED
6/26/2024

ROUTE	STATE
D/E	MO
DISTRICT	SHEET NO.
CD	17

COUNTY
CAMDEN/LACLEDE

JOB NO.
J5S3336

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DATE	DESCRIPTION

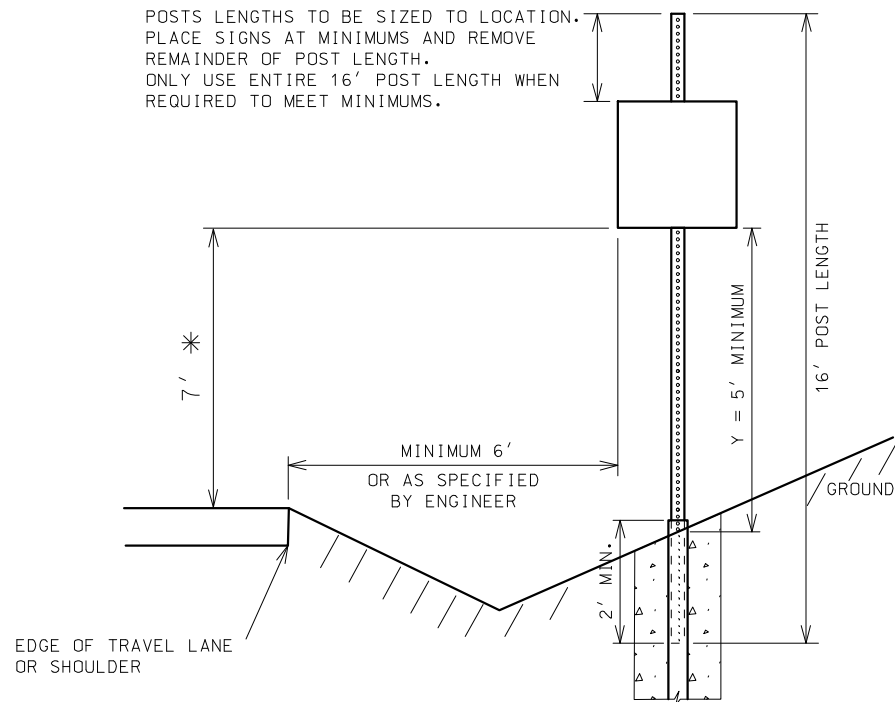
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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

DRIVEWAY DETAILS,
SPECIAL SHEET 6 OF 7

MOUNTING HEIGHT DETAIL

POSTS LENGTHS TO BE SIZED TO LOCATION. PLACE SIGNS AT MINIMUMS AND REMOVE REMAINDER OF POST LENGTH. ONLY USE ENTIRE 16' POST LENGTH WHEN REQUIRED TO MEET MINIMUMS.



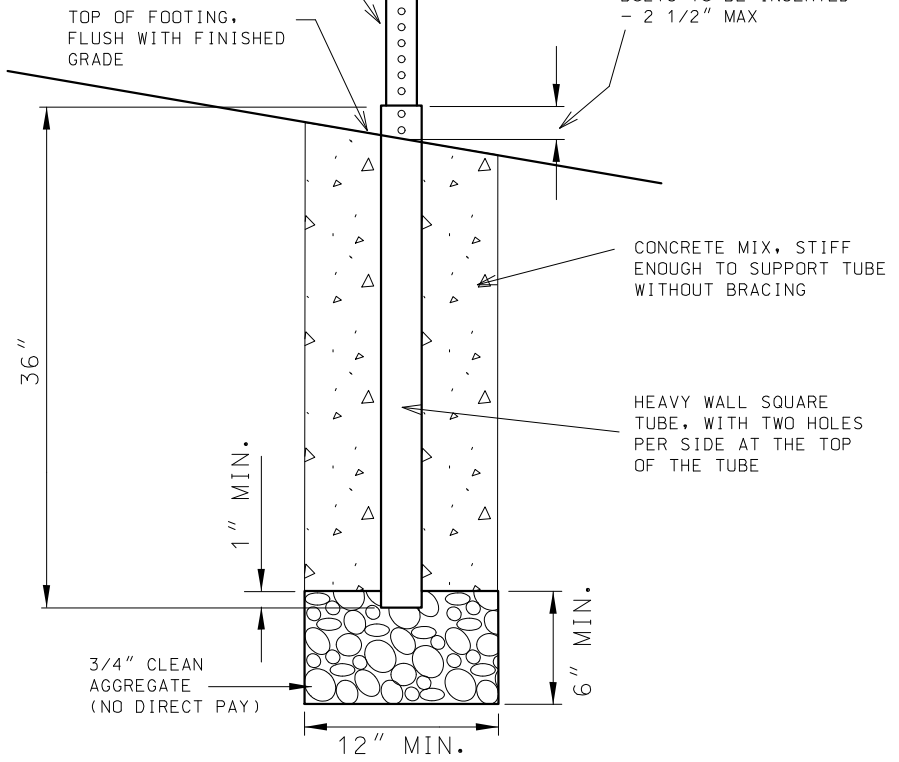
* 7' MINIMUM REQUIRED IN URBAN APPLICATIONS AND PREFERRED IN RURAL APPLICATIONS. IN RURAL APPLICATIONS ONLY - IN SITUATIONS WHERE THE 7' MINIMUM CAN NOT BE ATTAINED WITH A 16' PSST A RANGE OF 5'- 7' CAN BE USED AS LONG AS DISTANCE "Y" IS ALSO MAINTAINED.

NOTE: PERFORATED SQUARE STEEL TUBE (PSST) POSTS ARE PAID AS 16 LINEAR FOOT, CONTRACTOR IS RESPONSIBLE TO PROPERLY PLACE SIGN AS SHOWN ABOVE IN "MOUNTING HEIGHT DETAIL"

CONCRETE FOOTING DETAIL

POST SHALL EXTEND A MINIMUM OF 24" BELOW THE TOP OF THE ANCHOR SLEEVE

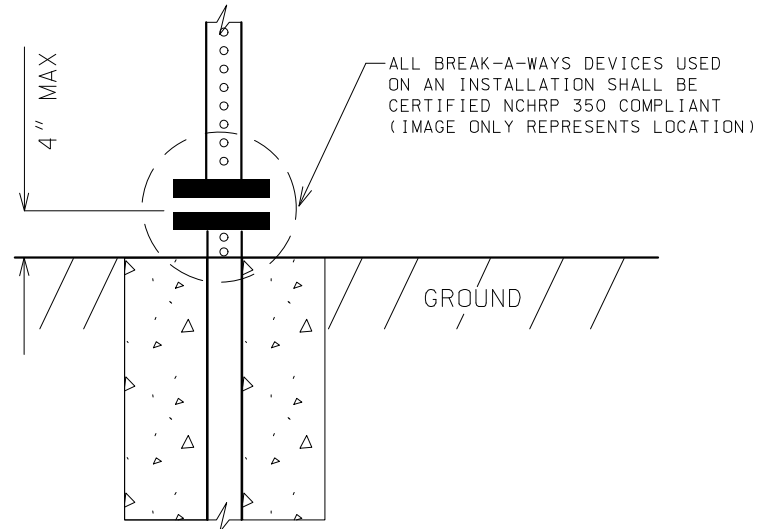
TUBE TO EXTEND ABOVE FOUNDATION ONLY ENOUGH TO ALLOW BOLTS TO BE INSERTED - 2 1/2" MAX



POSTS - 12 GAUGE - 2.5" X 2.5"
 ANCHORS - 7 GAUGE - 3" X 3" O.D.
 BREAKAWAY - CERTIFIED NCHRP 350 COMPLIANT USE REQUIRED FOR DOUBLE POST INSTALLATIONS ONLY
 GALVANIZATION - ALL PSST POSTS, ANCHORS AND BREAKAWAY CASTINGS SHALL BE GALVANIZED PER MoDOT STANDARD SPECIFICATIONS

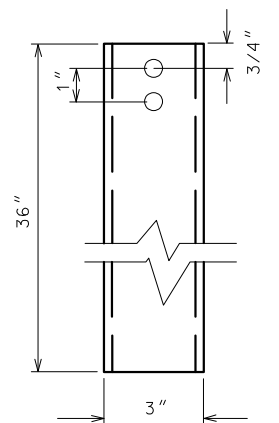
PSST CONCRETE FOOTINGS EMBEDDED PAID AS 3' LENGTH, 12" DIAMETER = 0.09 CUBIC YARDS REQUIRED AGGREGATE CONSIDERED INCIDENTAL AND INCLUDED IN CONCRETE FOOTING

BREAKAWAY DETAIL



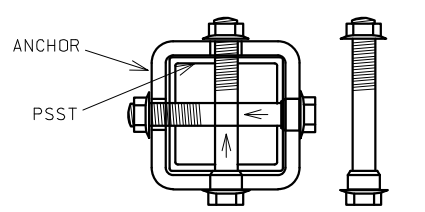
WHEN BREAKAWAY DEVICES ARE REQUIRED THE PORTION FIXED TO THE GROUND ANCHOR SHALL BE NO HIGHER THAN 4" ABOVE THE FINISHED GRADE

7 GAUGE ANCHOR FABRICATION DETAIL FOR 2.5" PSST



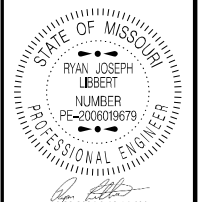
ANCHOR BOLT DETAIL FOR 2.5" PSST

2 SHOULDER BOLTS REQUIRED INSTALLED PERPENDICULAR TO EACH OTHER



3/8" X 3.5" SHOULDER BOLT AND NUT

SHEET IS NOT TO SCALE



DATE PREPARED 6/25/2024	
ROUTE D/E	STATE MO
DISTRICT CD	SHEET NO. 18
COUNTY CAMDEN/LACLEDE	
JOB NO. J553336	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

DATE	DESCRIPTION

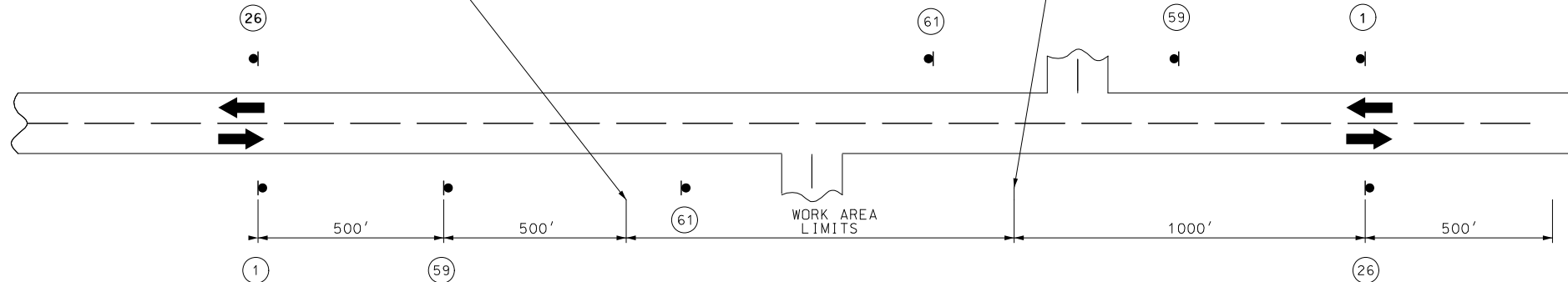
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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

2.5" PSST POST DETAILS
 SPECIAL SHEET 7 OF 7

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



**ROAD WORK
NEXT XX MILES**

G020-1
①

ROUTE D: XX = 17
ROUTE E: XX = 12

**END
ROAD WORK**

G020-2
②⑥

**WORK ZONE
NO PHONE
ZONE**

CONST-8
⑤⑨

3 CHANGEABLE MESSAGE SIGNS WITHOUT COMMUNICATION INTERFACE SHALL BE FURNISHED AND RETAINED BY THE CONTRACTOR, AND PLACED AT THE DISCRETION OF THE ENGINEER.

ORDER OF WORK

- ROUTE D SHOULDERING SECTION
 - DO MODIFIED LINEAR GRADING THEN SEED
 - PLACE OPTIONAL MODIFIED SHOULDER BASE
 - DO MODIFIED COLDMILLING
 - PLACE SURFACE LEVELING OVER EXISTING PAVEMENT AND SHOULDER
 - PLACE STRIPE AND RUMBLE STRIPS
 - RELOCATE SIGNS
 - BUILD BLOCK-OUTS ON BRIDGE B0342
 - INSTALL NEW GUARDRAIL
- ROUTE D PAVEMENT WIDENING NEAR POST OFFICE
 - DO VOLUMETRIC GRADING THEN SEED
 - PLACE AGGREGATE BASE
 - PLACE OPTIONAL PAVEMENT
 - BUILD DRIVEWAYS
 - INSTALL NEW GUARDRAIL
 - PLACE STRIPE AND RUMBLE STRIPS
 - RELOCATE SIGNS AND PARABOLIC MIRROR
- ROUTE D AND ROUTE E SURFACE LEVELING SECTION
 - DO MODIFIED COLD MILLING
 - PLACE SURFACE LEVELING
 - PLACE STRIPE

CONST-5-96 SH-FLAT SHEET;
3,000" Radius, 1,000" Border, White on Blue;
"Road", D; "Resurfacing", D; "Fall 2025", D;
Table of letter and object lefts

R	11.875	19.000	25.125	31.750													
R	11.875	19.000	24.875	31.500	38.500	42.875	47.250	53.750	60.375	64.250	70.750						
■	11.875	44.750	49.000	54.250	57.250	64.125	69.250	74.825	80.125								

CONST-5P-60 SHF-FLAT SHEET FLUORESCENT;
1,500" Radius, No border, Yellow;
"Completed as Promised" Black, D 65% spacing;
Table of letter and object lefts

C	1.500	4.875	7.875	12.375	15.375	16.625	19.375	21.500	24.250	29.000	31.875						
P	36.625	39.875	41.875	44.875	49.500	50.750	53.500	56.250									

NOTES:

SIGN G020-2 IS USED ON ALL PROJECTS WHERE SIGN G020-1 IS USED.

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

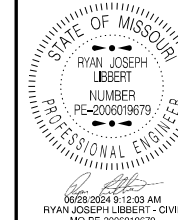
ANY EXISTING SIGNING THAT CONFLICTS WITH THE TRAFFIC CONTROL SIGNING SHALL BE COMPLETELY COVERED OR REMOVED.

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

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

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

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



DATE PREPARED
6/25/2024

ROUTE STATE
D/E MO

DISTRICT SHEET NO.
CD 19

COUNTY
CAMDEN/LACLEDE

JOB NO.
J553336

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)

TEMPORARY TRAFFIC CONTROL SHEET 1 OF 6



W020-1
2

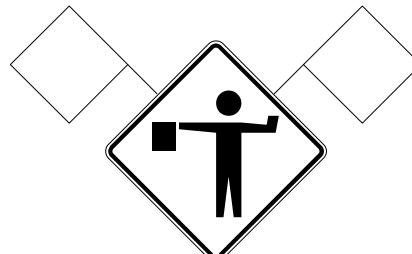


G020-4
53

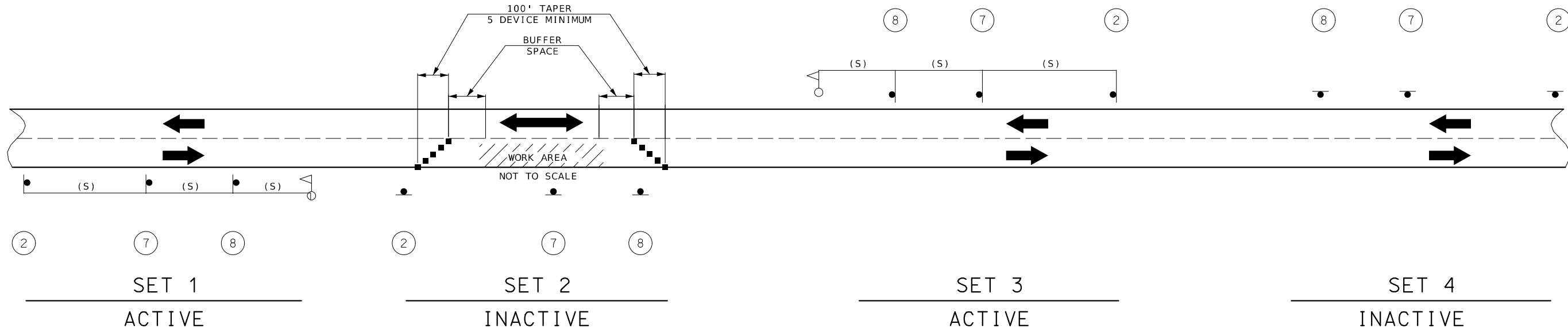
SIGN 53, "PILOT CAR FOLLOW ME" SHALL BE THE CONTRACTOR'S RESPONSIBILITY WHEN IN USE DURING OPERATION.



W020-4
7



W020-7a
8



GENERAL NOTES:

DAYLIGHT FLAGGING OPERATIONS ONLY.

CHANNELIZING DEVICES LOCATED DOWNSTREAM OF THE ONE-LANE, TWO-WAY TAPER ARE OPTIONAL. THESE DEVICES SHOULD BE ELIMINATED WHEN THEIR USE WILL REDUCE THE USABLE LANE WIDTH, INCLUDING ANY ACCEPTABLE SHOULDERS, TO LESS THAN 10' OR WILL SIGNIFICANTLY AFFECT THE RESURFACING OPERATION.

SIGN SETS 1 AND 3 ARE ACTIVE AND (I.E., SIGNS FACE ONCOMING TRAFFIC).

SIGN SETS 2 AND 4 ARE INACTIVE (I.E., SIGNS DO NOT FACE EITHER DIRECTION OF TRAFFIC) WHEN THE RESURFACING OPERATION IS LOCATED BETWEEN SIGN SETS 1 AND 3.

WHEN SIGN SETS 2 AND 4 ARE ACTIVE, SIGN SETS 1 AND 3 BECOME INACTIVE AND ARE ADVANCED TO BECOME SETS 2 AND 4 WITH SIGN LEGENDS TURNED AWAY FROM BOTH DIRECTIONS OF TRAFFIC. WHEN THE RESURFACING OPERATION ADVANCES TO BETWEEN SIGN SETS 2 AND 4, SIGN SETS 2 AND 4 BECOME ACTIVE (I.E., NEW SIGN SETS 1 AND 3) AND SIGN SETS 1 AND 3 ADVANCED IN THE DIRECTION OF THE OPERATION (I.E., NEW SIGN SETS 2 AND 4).

TRAFFIC CONTROL LEGEND

- SIGN (SINGLE SIDED)
- FLASHING ARROW PANEL
- FLAGGER
- TMA - TRUCK MOUNTED ATTENUATOR
- CHANNELIZER
- WORK SPACE
- CHANGEABLE MESSAGE BOARD
- ADVANCE WARNING RAIL SYSTEM

PERMANENT POSTED SPEED MPH	MINIMUM LANE TAPER LENGTH (T2)			MINIMUM SHOULDER TAPER LENGTH (T1) *	BUFFER LENGTH (B)	MAXIMUM CHANNELIZER SPACING	
	10'	11'	12'			THROUGH TAPER	THROUGH WORK AREA
0 - 35	205'	225'	245'	70'	400'	35' **	40' **
40 - 45	450'	495'	540'	150'	400'	40' **	80' **
50 - 55	550'	605'	660'	185'	560'	50' ***	80' ***
60 - 70	700'	770'	840'	235'	840'	60' ***	120' ***

* TAPER LENGTH BASED ON A 10' WIDE SHOULDER
 ** REDUCE CHANNELIZER SPACING TO HALF OF THE POSTED LENGTH WHEN AT AN INTERSECTION.
 *** CHANNELIZER SPACING MAY BE REDUCED TO HALF OF THE POSTED LENGTH WHEN AT AN INTERSECTION.

SIGN SPACING FOR ADVANCE SIGN SERIES (1) (2)

PERMANENT POSTED SPEED MPH	UNDIVIDED HIGHWAYS (S)
0 - 35	200'
40 - 45	350'
50 - 55	500'
60 - 70	1000'

CHARACTERISTICS BY ROADWAY TYPE

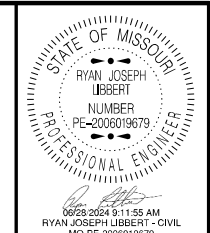
ROADWAY TYPE	SIGN HEIGHT		MAXIMUM WORK ZONE LENGTH (L)
	PORTABLE	POST	
URBAN	1'	7'	1 MILE
RURAL DIVIDED	1'	7'	2 MILE
RURAL UNDIVIDED	1'	5'	3 MILE

SIGN SPACING NOTES:

- (1) SPACING BETWEEN SIGNS; SPACING BETWEEN LAST SIGN AND FLAGGER; SPACING FROM BEGINNING OF TAPER TO FIRST SIGN OR FLAGGER; OCCURRING WITHIN SIGNED CONDITION.
- (2) SPACINGS MAY BE ADJUSTED AS NECESSARY TO MEET FIELD CONDITIONS AND VISIBILITY.
- (3) USE THE VALUES IN THESE TABLES UNLESS OTHERWISE NOTED IN THE PLANS OR NOTE (2) APPLIES.

ORDER OF WORK:

- 1) CONTRACT LEVEL COURSE RESURFACING.



DATE PREPARED
6/25/2024

ROUTE STATE
D/E MO
DISTRICT SHEET NO.
CD 20

COUNTY
CAMDEN/LACLEDE
JOB NO.
J5S3336
CONTRACT ID.

PROJECT NO.
BRIDGE NO.

DESCRIPTION	DATE

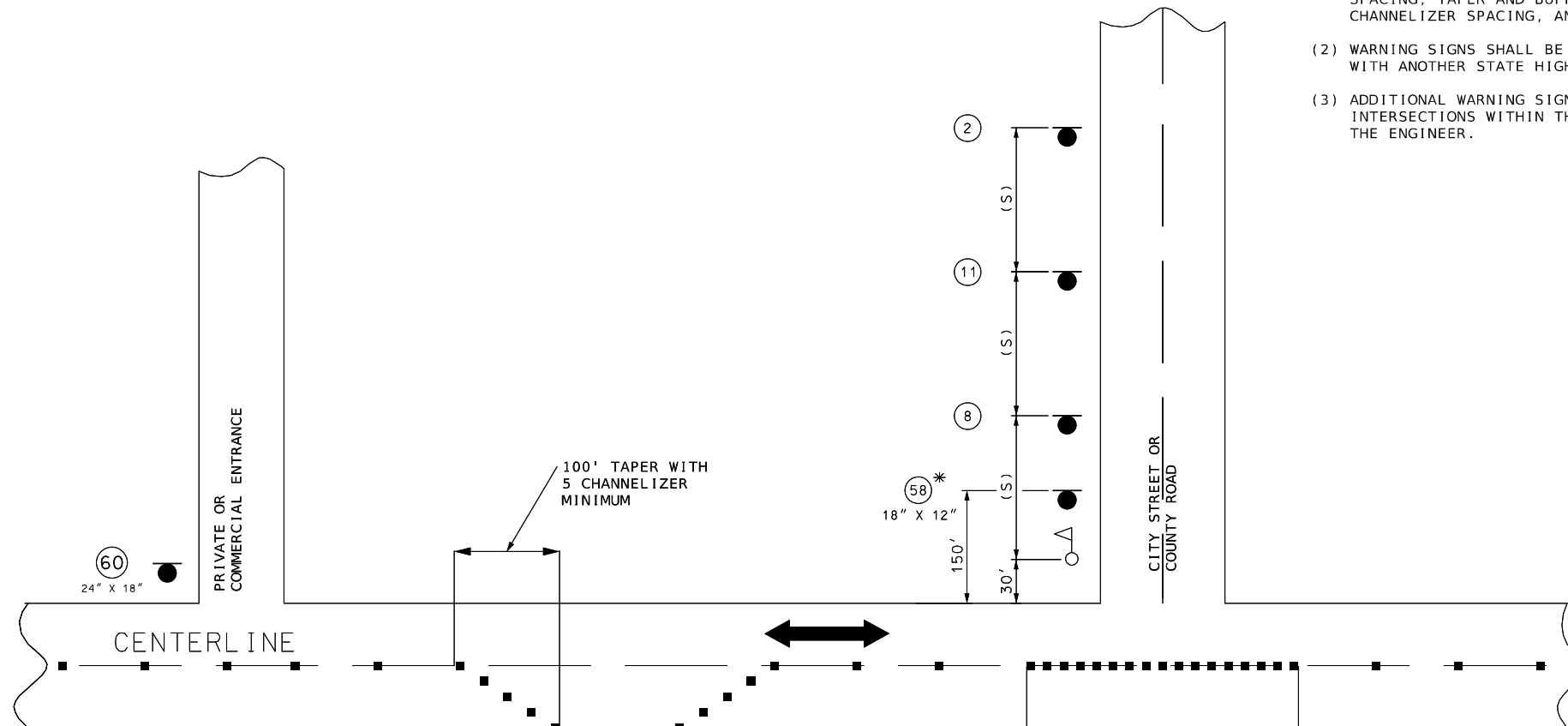
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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

TEMPORARY TRAFFIC CONTROL SHEET 2 OF 6

NOTES:

- (1) SEE TEMPORARY TRAFFIC CONTROL SHEET 2 FOR SIGN SPACING, TAPER AND BUFFER ZONE LENGTHS, CHANNELIZER SPACING, AND TRAFFIC CONTROL LEGEND.
- (2) WARNING SIGNS SHALL BE ERRECTED AT EACH INTERSECTION WITH ANOTHER STATE HIGHWAY WITHIN THE WORK ZONE.
- (3) ADDITIONAL WARNING SIGNS SHALL BE ERRECTED AT OTHER INTERSECTIONS WITHIN THE WORK ZONE, AS DIRECTED BY THE ENGINEER.

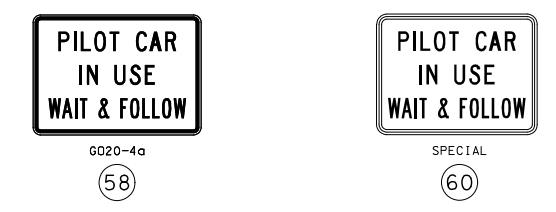
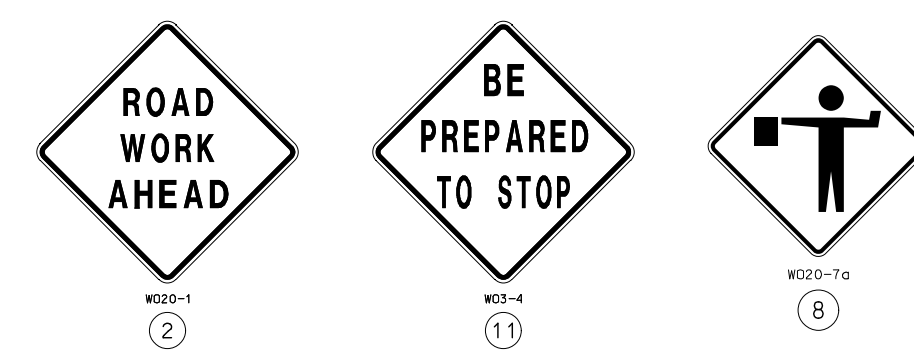


MAJOR PRIVATE DRIVE LIST	
CAMDEN D	
FIRST RESURFACING WORKZONE	
0.721	MINNOWBROOK ROAD
0.762	ROCK BLUFF ROAD
SECOND RESURFACING WORKZONE	
3.603	CLIFF HOUSE ACRES CIRCLE
3.742	CLIFF HOUSE ACRES CIRCLE
3.754	WHISPERWOOD DRIVE
4.016	LIBERTY ROAD
4.244	GRACE LANE
THIRD RESURFACING WORKZONE	
7.120	SEVEN RIDGES ROAD
7.191	SEVEN RIDGES ROAD
7.781	SHADOW RIDGE ROAD
FOURTH RESURFACING WORKZONE	
9.218	BEAR RIDGE ROAD
9.795	WEBSTER TURKEY FARM ROAD
LACLEDE D	
FIFTH RESURFACING WORKZONE	
13.090	NATHAN LANE
13.212	NORFOLK DRIVE
LACLEDE E	
FIRST RESURFACING WORKZONE	
1.095	MAY DRIVE
2.053	LEXINGTON ROAD
SECOND RESURFACING WORKZONE	
4.095	MAYFIELD LANE
THIRD RESURFACING WORKZONE	
6.321	KENTON LANE
6.842	KATY LANE

RESURFACING WORKZONE LENGTH = 3 MILES

THIS LIST MAY BE ADJUSTED AT THE DISCRETION OF THE ENGINEER.

SIDE ROADS ENTERING WORKZONES
NOT TO SCALE



SHALL BE USED ON ALL INTERSECTIONS.

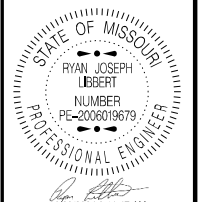
* THE SMALLER 18" X 12" SIGN (58) IS USED ON ALL OTHER NON-STATE ROUTES (CITY STREETS, COUNTY ROADS, ETC.).

SHALL ONLY BE USED AT PRIVATE AND COMMERCIAL ENTRANCES. SEE STD PLAN 616.10 FOR SIGN DETAILS.

PUBLIC ROAD LIST	
CAMDEN D	
FIRST RESURFACING WORKZONE	
0.366	BUMPER HILL ROAD
0.553	WEST LAKE PARK
1.482	PK HA 19P A E
1.868	PK HA 18 A S
2.069	PK HA 7P B E
2.098	DRY HOLLOW ROAD
2.098	PK HA 9P D S
2.576	POST OFFICE ROAD
2.607	PK HA 10P E E
2.647	PK HA 10P E E
2.660	PK HA 11P E S
SECOND RESURFACING WORKZONE	
3.099	TONKA SPRING ROAD
3.733	SPENCER CREEK ROAD
4.081	BAUER ESTATES ROAD
4.091	PEACEFUL VALLEY ROAD
4.564	JACK NORTH ROAD
4.737	BRUSH ARBOR ROAD
THIRD RESURFACING WORKZONE	
6.402	HACKSAW ROAD
6.719	AUBREY BELL ROAD
6.864	DARBY HOLLOW ROAD
8.259	STARGAZER LANE
8.398	TUNNEL DAM ROAD
LACLEDE D	
FOURTH RESURFACING WORKZONE	
10.811	MISTY DRIVE
11.878	MOHAVE DRIVE
FIFTH RESURFACING WORKZONE	
14.268	LAUREL ROAD
SIXTH RESURFACING WORKZONE	
15.927	KANSAS ROAD
16.172	NAVY DRIVE
16.460	ROUTE E
LACLEDE E	
FIRST RESURFACING WORKZONE	
	NONE
SECOND RESURFACING WORKZONE	
4.585	MOHAVE DRIVE
THIRD RESURFACING WORKZONE	
7.436	ROUTE NN
7.934	NORMAL DRIVE
8.019	NAVY DRIVE
8.245	ROUTE D
8.647	NORWOOD DRIVE
FOURTH RESURFACING WORKZONE	
9.240	NODAWAY DRIVE
10.288	NINA DRIVE
11.776	ROUTE 5

RESURFACING WORKZONE LENGTH = 3 MILES

THIS LIST MAY BE ADJUSTED AT THE DISCRETION OF THE ENGINEER.



DATE PREPARED
6/25/2024

ROUTE STATE
D/E MO

DISTRICT SHEET NO.
CD 21

COUNTY
CAMDEN/LACLEDE

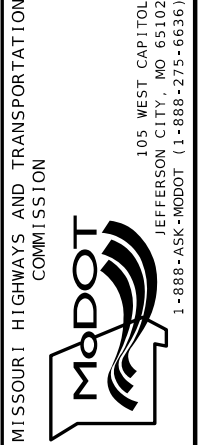
JOB NO.
J553336

CONTRACT ID.

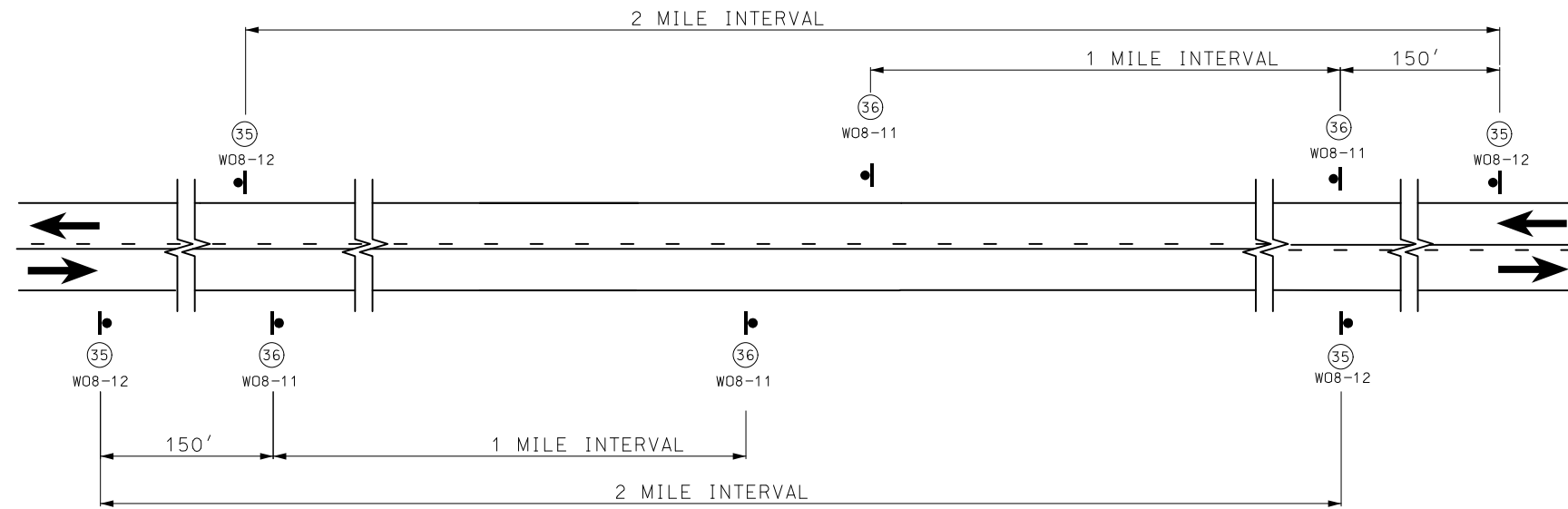
PROJECT NO.

BRIDGE NO.

DATE	DESCRIPTION

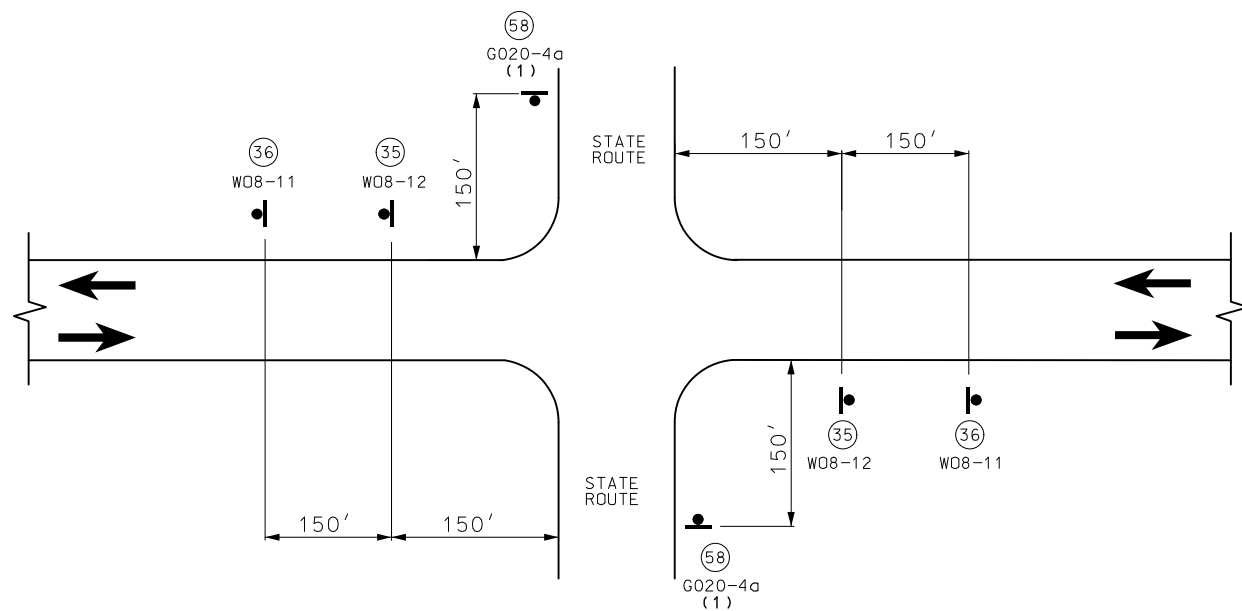


TEMPORARY TRAFFIC CONTROL SHEET 3 OF 6



SIGN SPACING ON MAINLINE
NOT TO SCALE

NUMBER OF SIGNS:
ROUTE D
 (35) = 18 EACH
 (36) = 34 EACH
 ROUTE E
 (35) = 12 EACH
 (36) = 24 EACH



SIGN SPACING AT STATE ROUTE INTERSECTIONS
NOT TO SCALE

(1) ADDITIONAL SIDEROADS MAY BE SIGNED AS APPROVED BY THE ENGINEER.

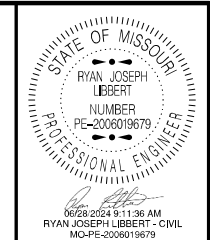


NOTES:

SIGN (35) AND TEMPORARY RAISED PAVEMENT MARKING (SEE STANDARD PLAN 620.10) INSTALLED WHERE CENTERLINE STRIPING HAS BEEN COVERED OR REMOVED. SIGNS ARE TO REMAIN IN PLACE UNTIL THE PERMANENT CENTERLINE PAVEMENT MARKINGS ARE IN PLACE. SIGNS SHALL BE COVERED OR REMOVED WHEN PAVEMENT CENTERLINE MARKING HAS BEEN INSTALLED.

SIGN (35) IS PLACED AT APPROXIMATELY TWO-MILE INTERVALS AND AT STATE ROUTE JUNCTIONS. WHEN THE INSTALLATION AT A JUNCTION IS WITHIN ONE-EIGHTH MILE OF THE NORMAL MAINLINE SIGN (35), THE LATTER MAY BE ELIMINATED.

ALL SIGNS SHALL BE POST MOUNTED AND IN ACCORDANCE WITH STANDARD PLAN 616.10 AND 903.03.



DATE PREPARED
6/25/2024

ROUTE D/E STATE MO

DISTRICT CD SHEET NO. 22

COUNTY CAMDEN/LACLEDE

JOB NO. J5S3336

CONTRACT ID.

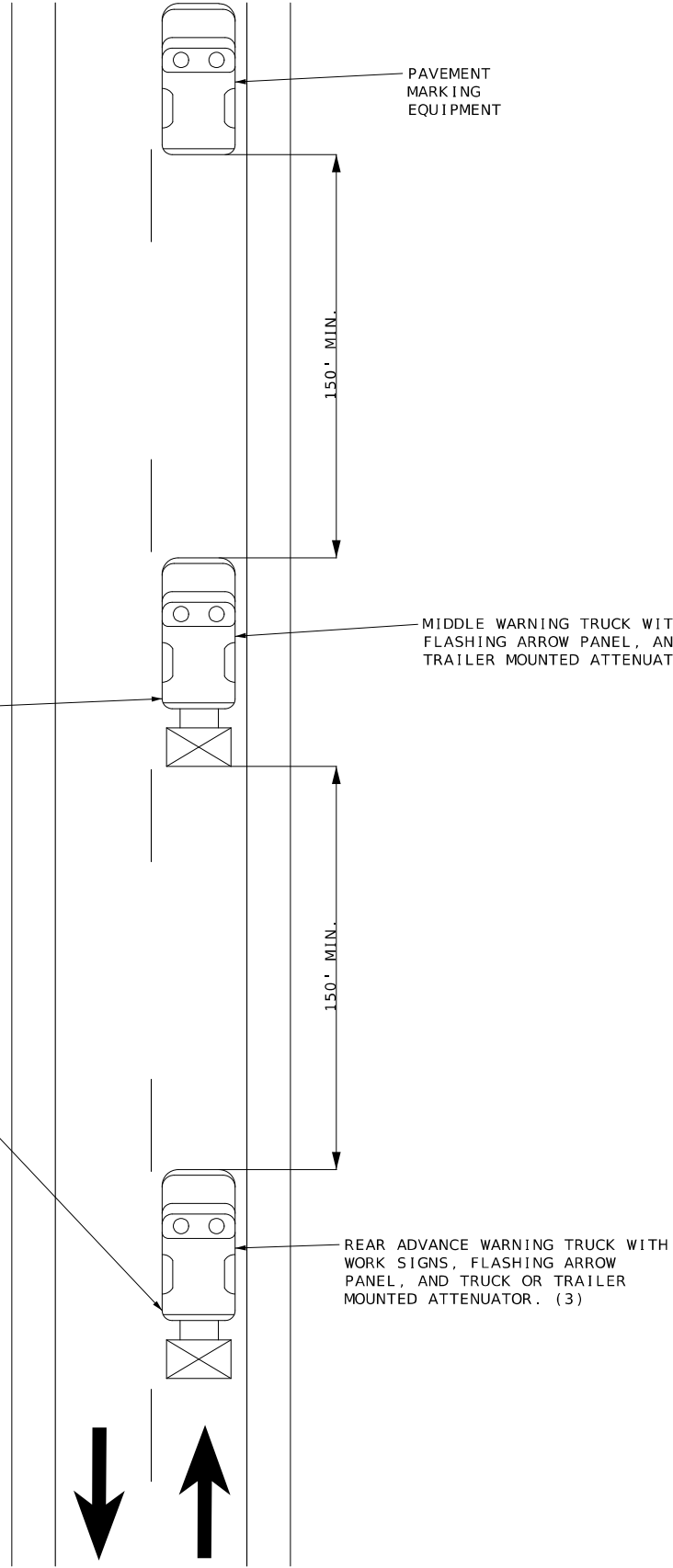
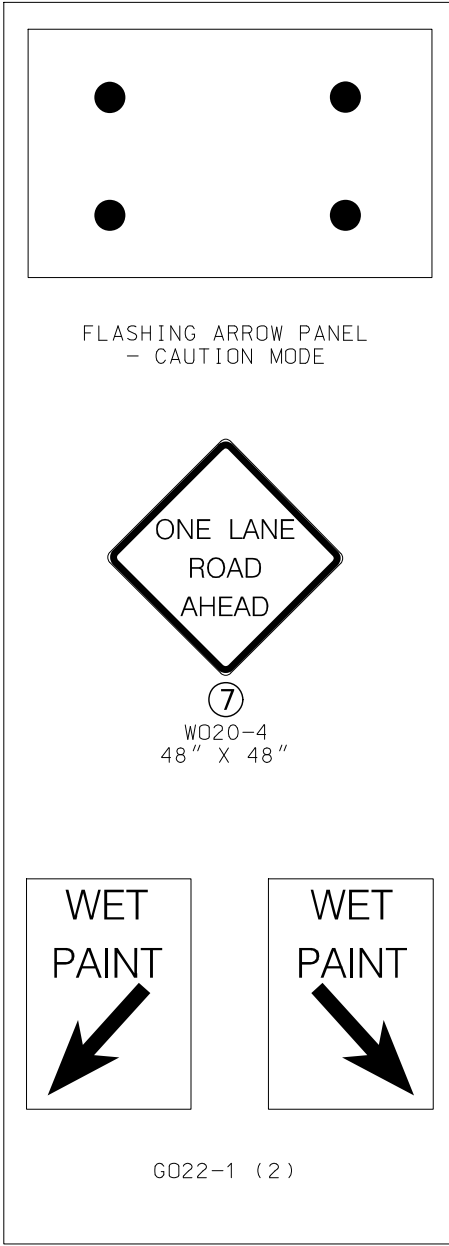
PROJECT NO.

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)

TEMPORARY TRAFFIC CONTROL SHEET 4 OF 6



ORDER OF WORK:
1) PAVEMENT MARKING

NOTES:
UPON APPROVAL OF THE ENGINEER, THE CONTRACTOR MAY PROVIDE ADDITIONAL PROTECTIVE TRUCK 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.

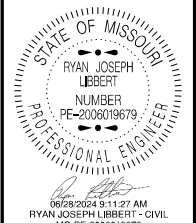
FLASHING ARROW PANELS SHALL BE INCIDENTAL TO TRUCK MOUNTED ATTENUATORS, WHEREVER USED. NO ADDITIONAL PAYMENT SHALL BE MADE.

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

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

(3) REAR ADVANCE WARNING TRUCK IS POSITIONED AT THE NO TRACK POINT OF THE PAVEMENT MARKING MATERIAL, OR VERTICAL OR HORIZONTAL CURVES THAT RESTRICT SIGHT DISTANCE, OR SPACING SHOWN.

CENTERLINE/EDGE LINE STRIPING ON TWO-LANE HIGHWAYS
NOT TO SCALE



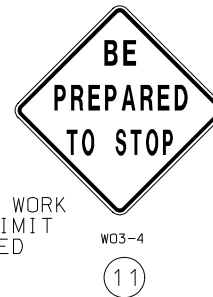
DATE PREPARED 6/25/2024	
ROUTE D/E	STATE MO
DISTRICT CD	SHEET NO. 23
COUNTY CAMDEN/LACLEDE	
JOB NO. J553336	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

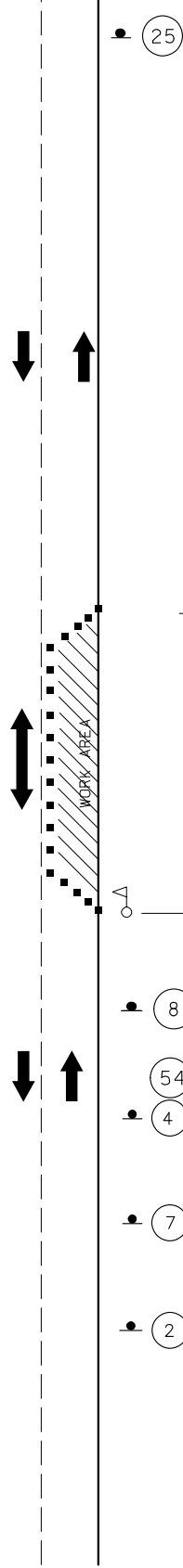
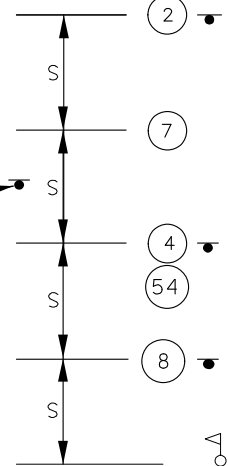
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

TEMPORARY
TRAFFIC CONTROL
SHEET 5 OF 6

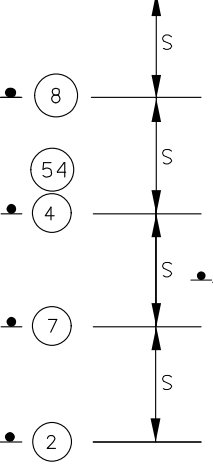
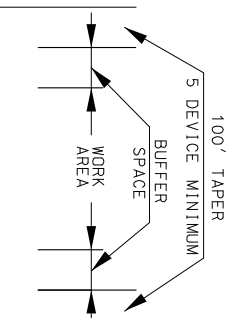


USED WHEN NO WORK ZONE SPEED LIMIT IS ESTABLISHED

W03-4
11

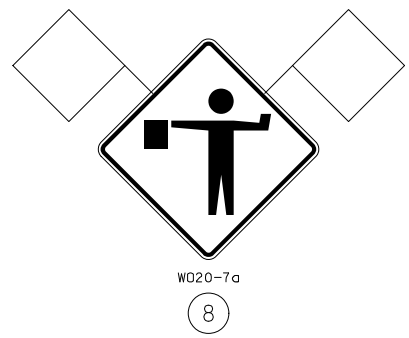
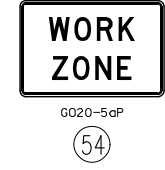
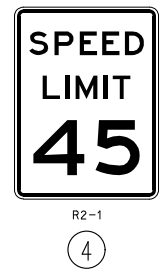
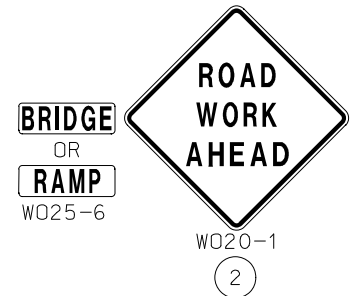


LANE CLOSURE ON TWO-LANE ROAD USING FLAGGERS



USED WHEN NO WORK ZONE SPEED LIMIT IS ESTABLISHED

W03-4
11



NOTES:
 SEE TABLE BELOW FOR WORK ZONE SPEED LIMIT REDUCTION GUIDELINES.
 SEE TRAFFIC CONTROL SHEET 2 FOR SIGN SPACING, DEVICE SPACING AND CHANNELIZING TAPER LENGTHS.
 AUTOMATED FLAGGER ASSISTANCE DEVICES (AFAD) AND PORTABLE SIGNAL FLAGGING DEVICES (PSFD) MAY BE USED AS AN ALTERNATIVE FLAGGING OPERATION.
 IF USED AT NIGHT, THE FLAGGER STATIONS SHALL BE ILLUMINATED WITH AN AVERAGE MAINTAINED INTENSITY OF 0.6 FOOT CANDLES (6.5 LUX).
 A PILOT CAR MAY BE NECESSARY FOR SOME SET-UPS. IF SO, SIGNS 53, 58, AND 60 SHALL BE USED WITH THIS TRAFFIC CONTROL.

RECOMMENDED MAXIMUM SPEED REDUCTIONS IN WORKZONES	
CONSTRUCTION ACTIVITY LOCATION	SPEED REDUCTION
10 ft. BEYOND EDGE OF TRAVELWAY TO RIGHT OF WAY	NO REDUCTION
WITHIN TRAFFIC LANE TO 10' BEYOND EDGE OF TRAVELWAY	10 MPH
HEAD-TO-HEAD ON MULTI-LANE TRAVELWAYS	10 MPH

SPECIAL CIRCUMSTANCES WITHIN THE WORKZONE MAY WARRANT A GREATER SPEED LIMIT REDUCTION THAN SHOWN ABOVE. WHEN GREATER THAN 10 MPH THE REDUCTION SHALL BE DOCUMENTED, SUBMITTED TO, AND APPROVED BY THE DISTRICT WORKZONE COORDINATOR

STATE OF MISSOURI
 RYAN JOSEPH LIBERT
 NUMBER PE-2006019679
 PROFESSIONAL ENGINEER
 07/28/2024 9:11:18 AM
 RYAN JOSEPH LIBERT - CIVIL
 MO-PE-2006019679

DATE PREPARED
 6/25/2024

ROUTE STATE
 D/E MO

DISTRICT SHEET NO.
 CD 24

COUNTY
 CAMDEN/LACLEDE

JOB NO.
 J553336

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION

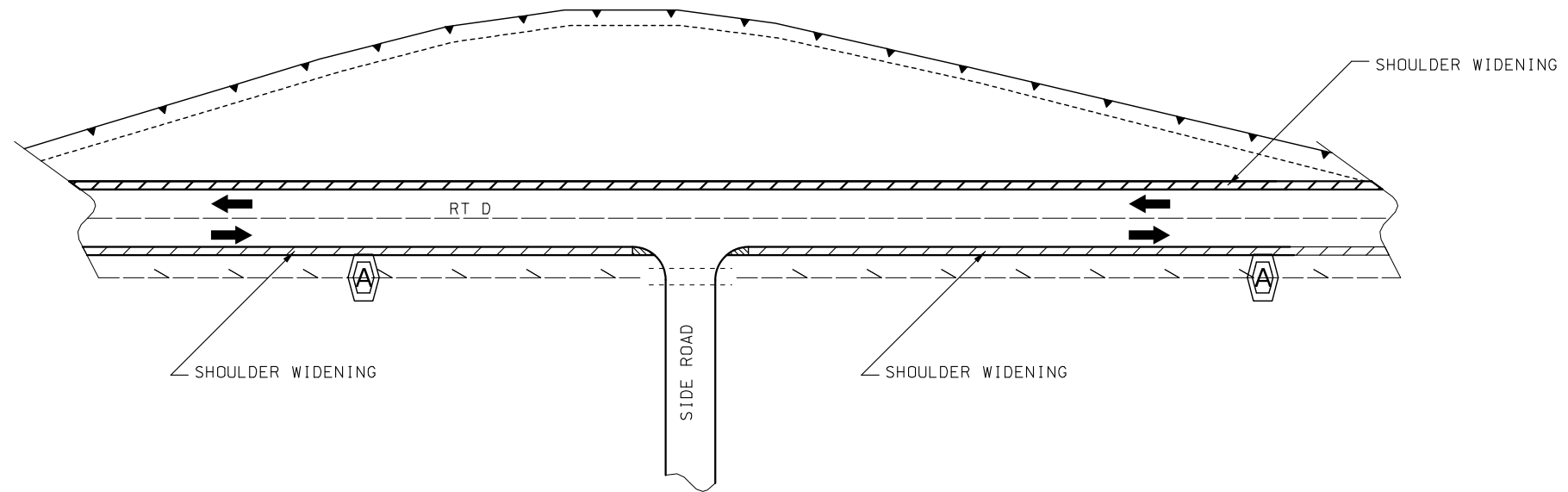
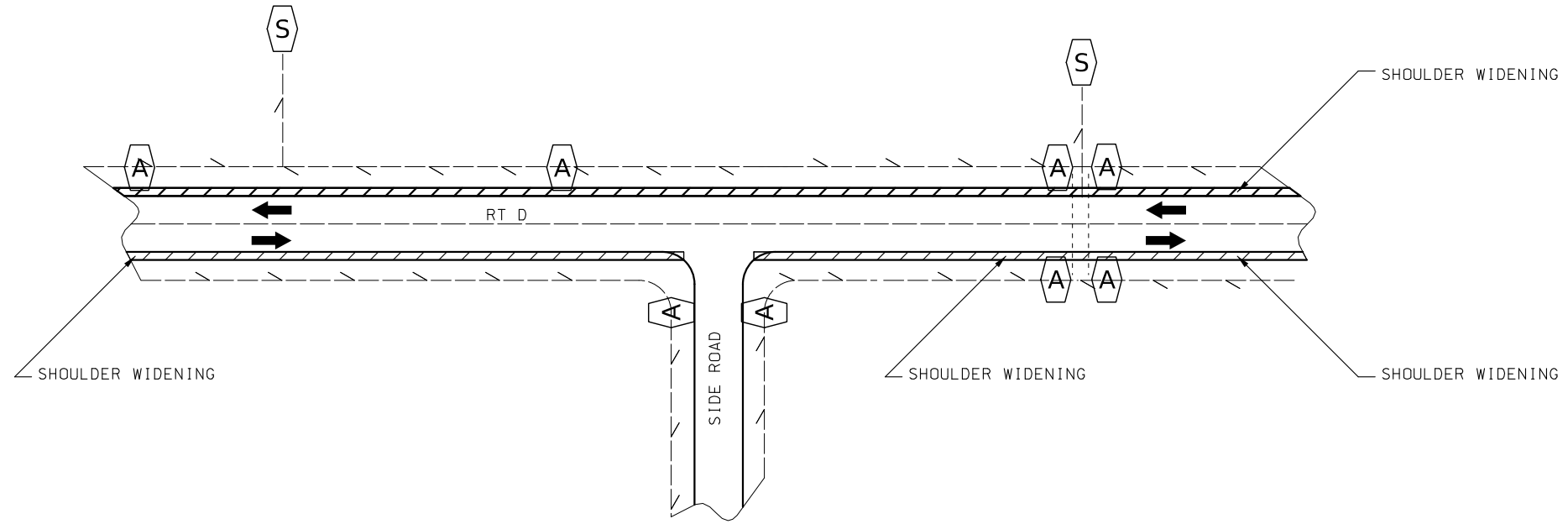
DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION






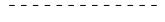
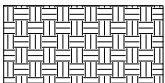
105 WEST CAPITOL
 JEFFERSON CITY, MO 65102
 1-888-ASK-MODOT (1-888-275-6636)

GENERAL NOTES:

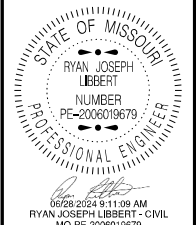
- 1) ALL TEMPORARY EROSION CONTROL MEASURES TO BE PLACED IN A LOCATION THAT PREVENTS SEDIMENT FROM ENTERING ANY STREAM OR FROM LEAVING THE RIGHT OF WAY. EXACT SIZE AND LOCATION OF ALL TEMPORARY EROSION CONTROL MEASURES TO BE DETERMINED IN THE FIELD BY THE CONTRACTOR AND APPROVED BY THE ENGINEER PRIOR TO INSTALLATION.
- 2) REFER TO JOB SPECIAL PROVISIONS AND STANDARD PLAN 806.10 FOR ALL TEMPORARY EROSION CONTROL MEASURES.
- 3) REGION 3 SEEDING
- 4) TEMPORARY DITCH CHECKS MAY BE ROCK OR ALTERNATE DEPENDING ON AVAILABILITY OF MATERIAL IN THE FIELD. ALTERNATE TYPE USED FOR PROJECT ESTIMATE.



TEMPORARY EROSION CONTROL LEGEND

-  TEMPORARY DITCH CHECK
-  SILT FENCE
-  SILT FENCE
-  EXISTING FILL SLOPE
-  EXISTING "V" DITCH
-  EXISTING CULVERT
-  EROSION CONTROL BLANKET

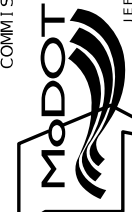
NOT TO SCALE



DATE PREPARED 6/25/2024	
ROUTE D/E	STATE MO
DISTRICT CD	SHEET NO. 25
COUNTY CAMDEN/LACLEDE	
JOB NO. J5S3336	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

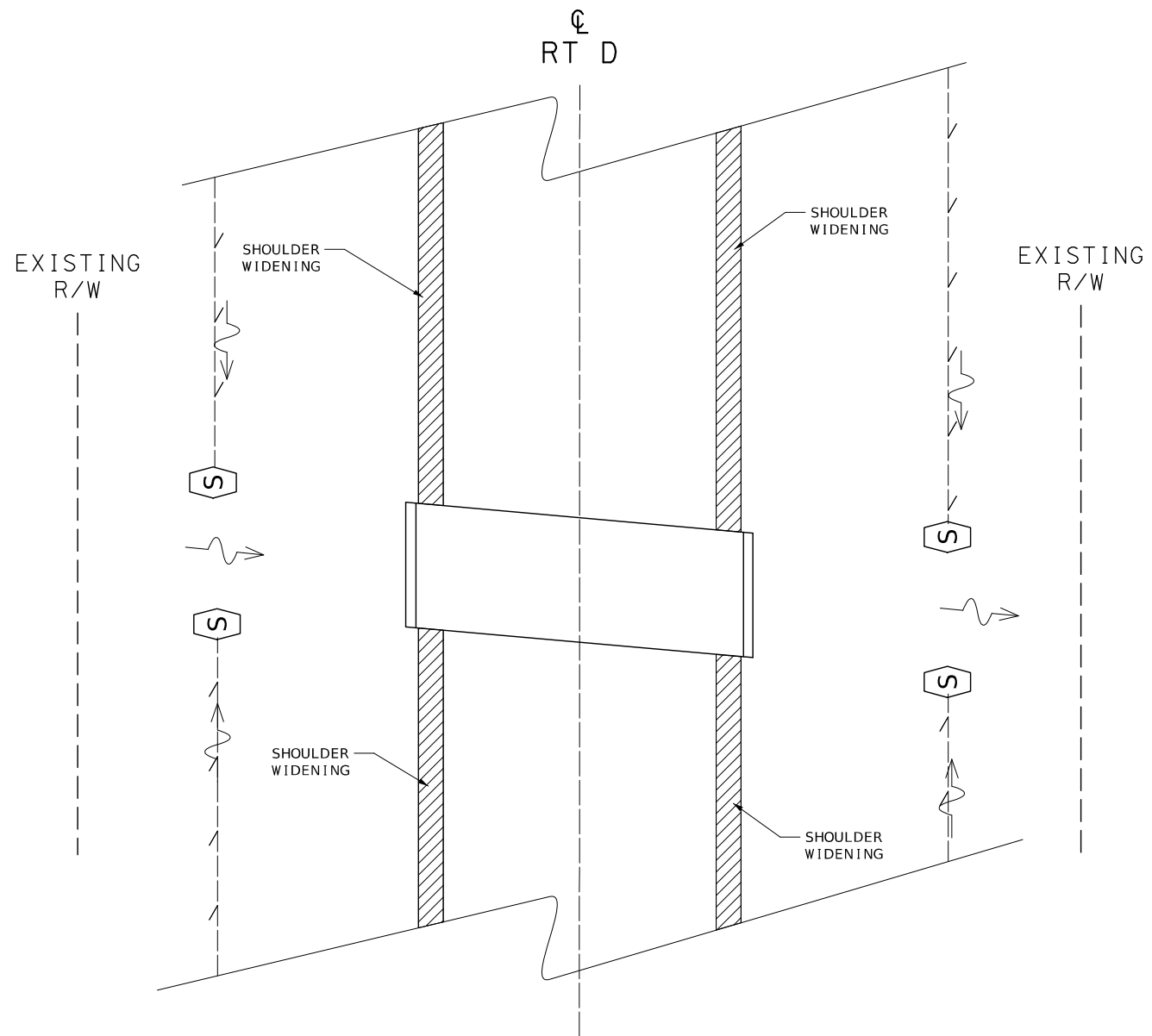
DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

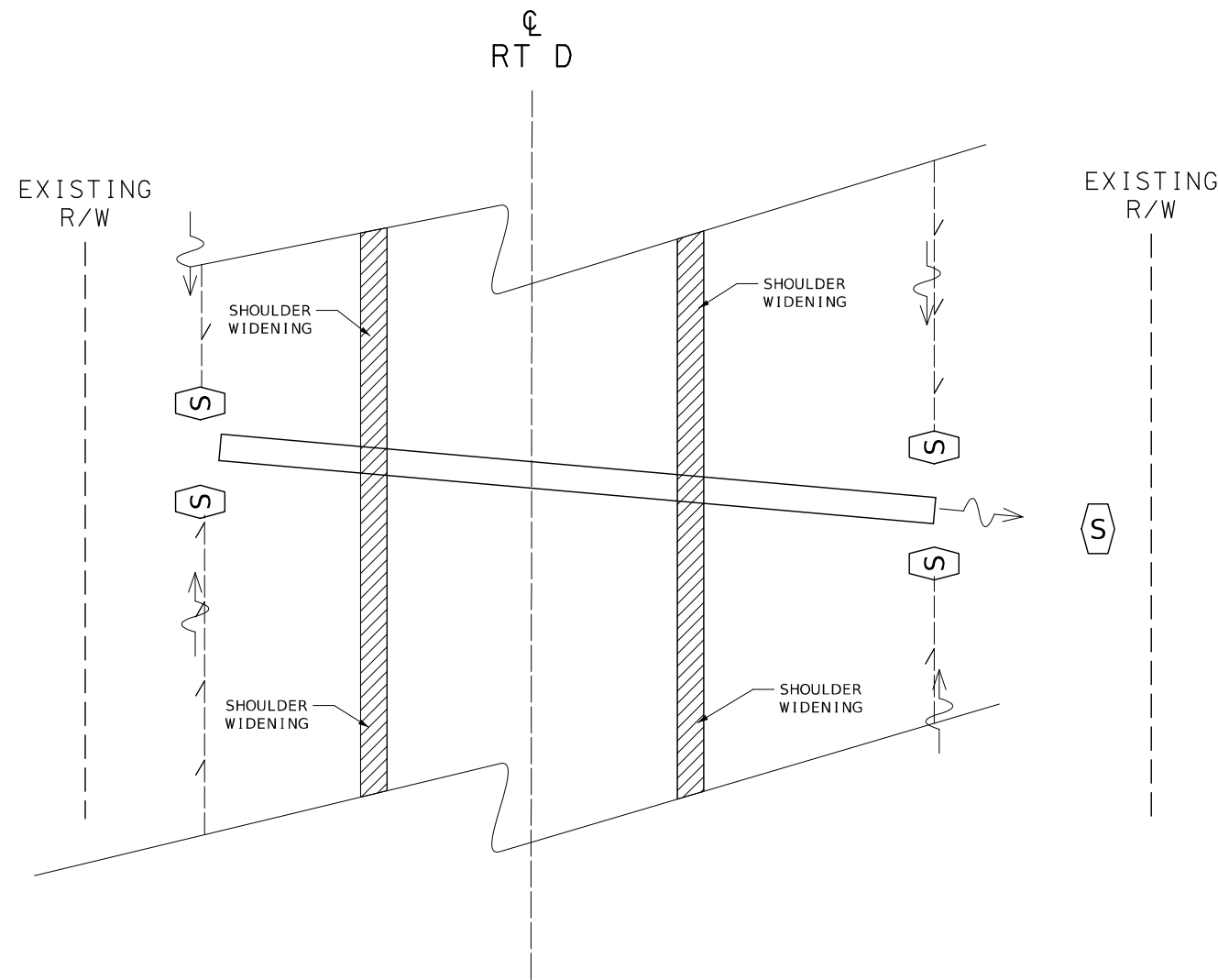


105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

TEMPORARY EROSION CONTROL SHEET 1 OF 5



GENERAL SET-UP FOR
BRIDGE CROSSINGS



GENERAL SET-UP FOR
SMALL DRAINAGE CROSSINGS

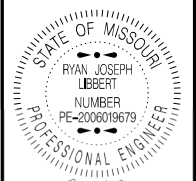
NOT TO SCALE

DATE PREPARED 6/25/2024	
ROUTE D/E	STATE MO
DISTRICT CD	SHEET NO. 26
COUNTY CAMDEN/LACLEDE	
JOB NO. J553336	
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)	

TEMPORARY
EROSION CONTROL
SHEET 2 OF 5

HA HA TONKA STATE PARK

10



DATE PREPARED
6/25/2024

ROUTE	STATE
D/E	MO
DISTRICT	SHEET NO.
CD	27

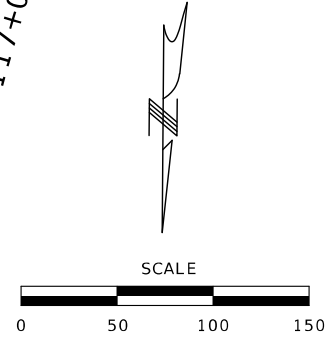
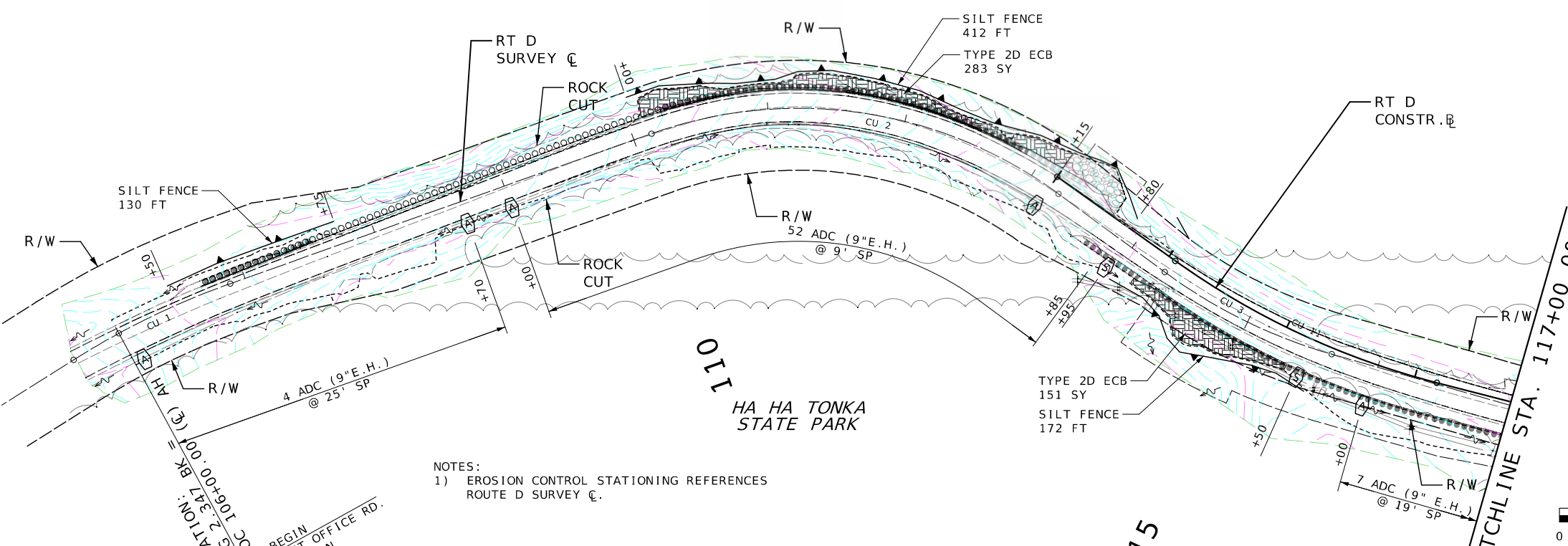
COUNTY
CAMDEN/LACLEDE

JOB NO.
J5S3336

CONTRACT ID.

PROJECT NO.

BRIDGE NO.



PLAN OF ROUTE D AT POST OFFICE ROAD

CLEARING AND GRUBBING Lt. = 0.03 AC
CLEARING AND GRUBBING Rt. = 0.04 AC

REGION 3 SEEDING Lt. = 0.1 AC
REGION 3 SEEDING Rt. = 0.3 AC

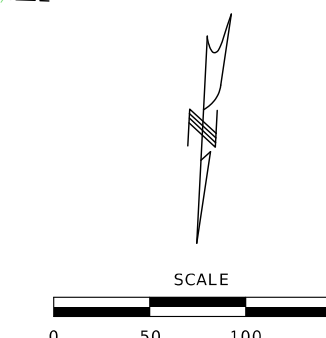
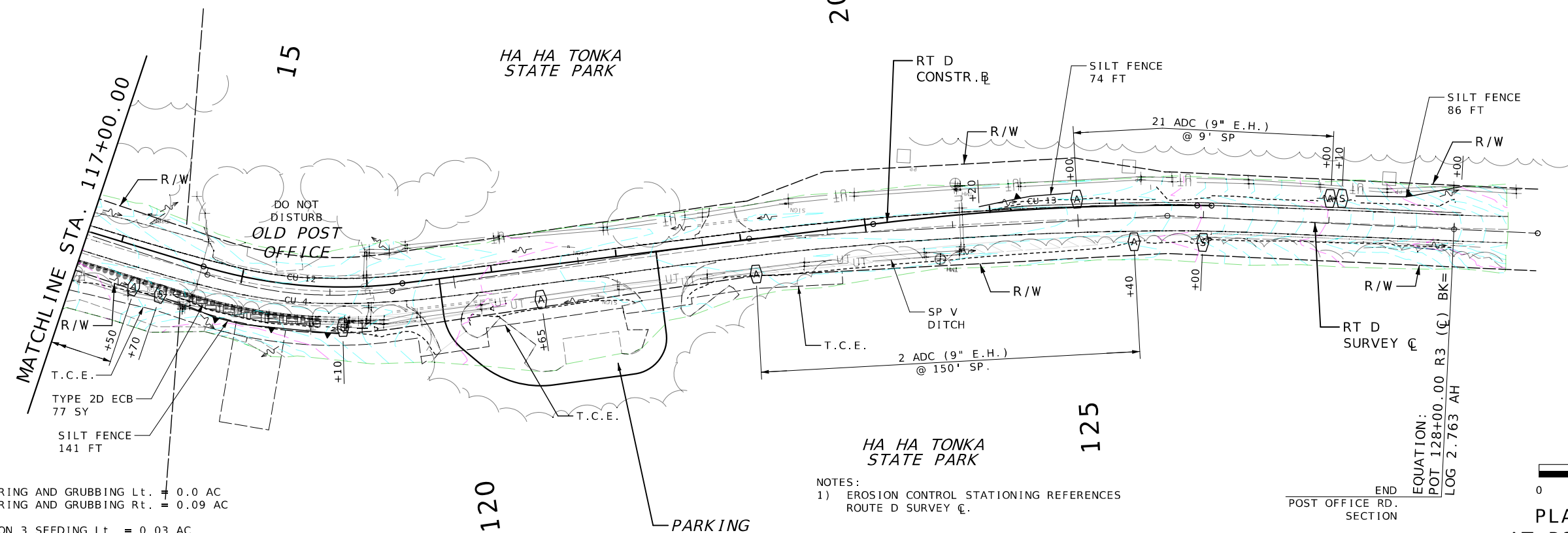
NOTES:
1) EROSION CONTROL STATIONING REFERENCES
ROUTE D SURVEY C.

HA HA TONKA STATE PARK

115

20

HA HA TONKA STATE PARK



PLAN OF ROUTE D AT POST OFFICE ROAD

CLEARING AND GRUBBING Lt. = 0.0 AC
CLEARING AND GRUBBING Rt. = 0.09 AC

REGION 3 SEEDING Lt. = 0.03 AC
REGION 3 SEEDING Rt. = 0.2 AC

NOTES:
1) EROSION CONTROL STATIONING REFERENCES
ROUTE D SURVEY C.

HA HA TONKA STATE PARK

125

DESCRIPTION

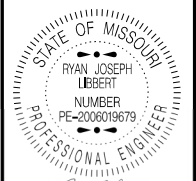
DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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



TEMPORARY
EROSION CONTROL
ROUTE D SURVEY C
POST OFFICE ROAD
SHEET 3 OF 5



DATE PREPARED
6/25/2024

ROUTE STATE
D/E MO
DISTRICT SHEET NO.
CD 28

COUNTY
CAMDEN/LACLEDE
JOB NO.
J553336
CONTRACT ID.

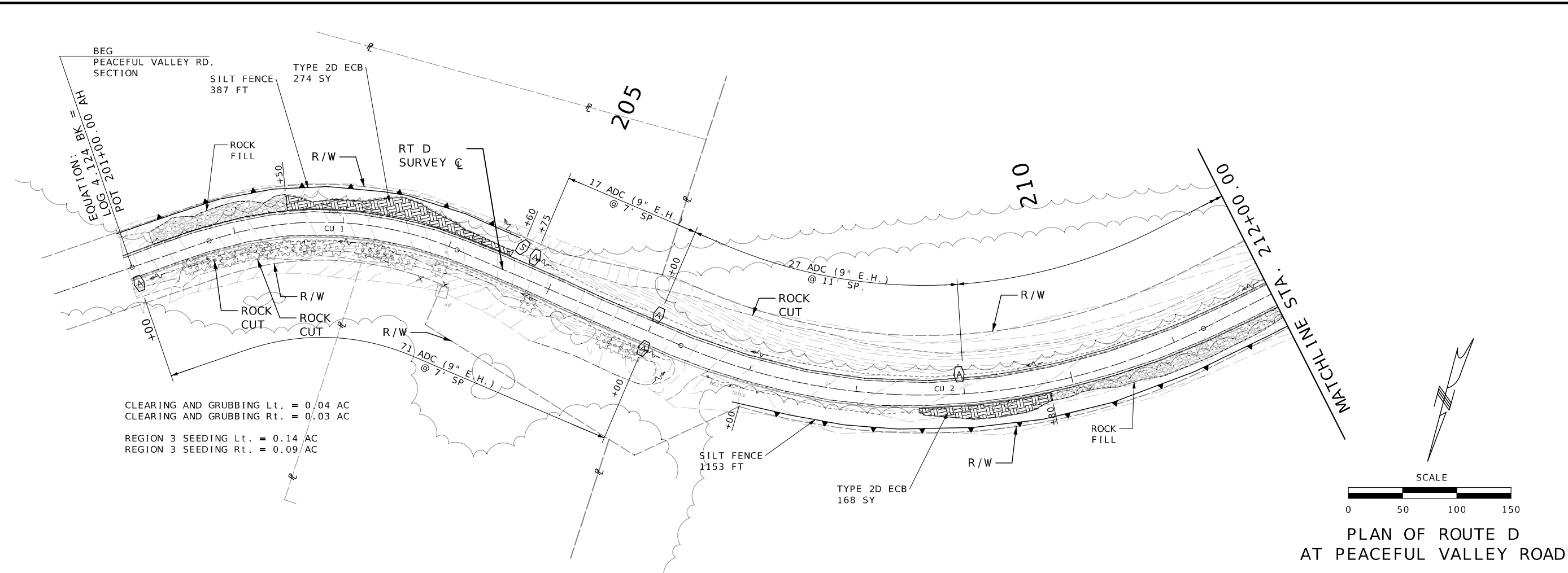
PROJECT NO.
BRIDGE NO.

DATE	DESCRIPTION

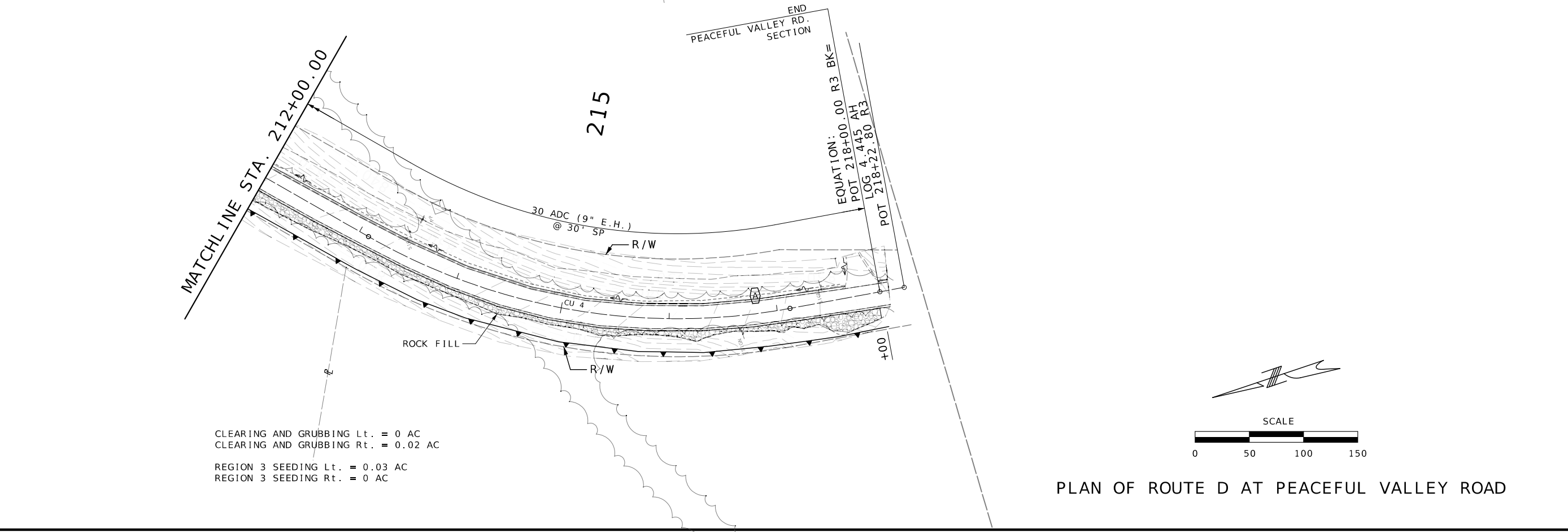
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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

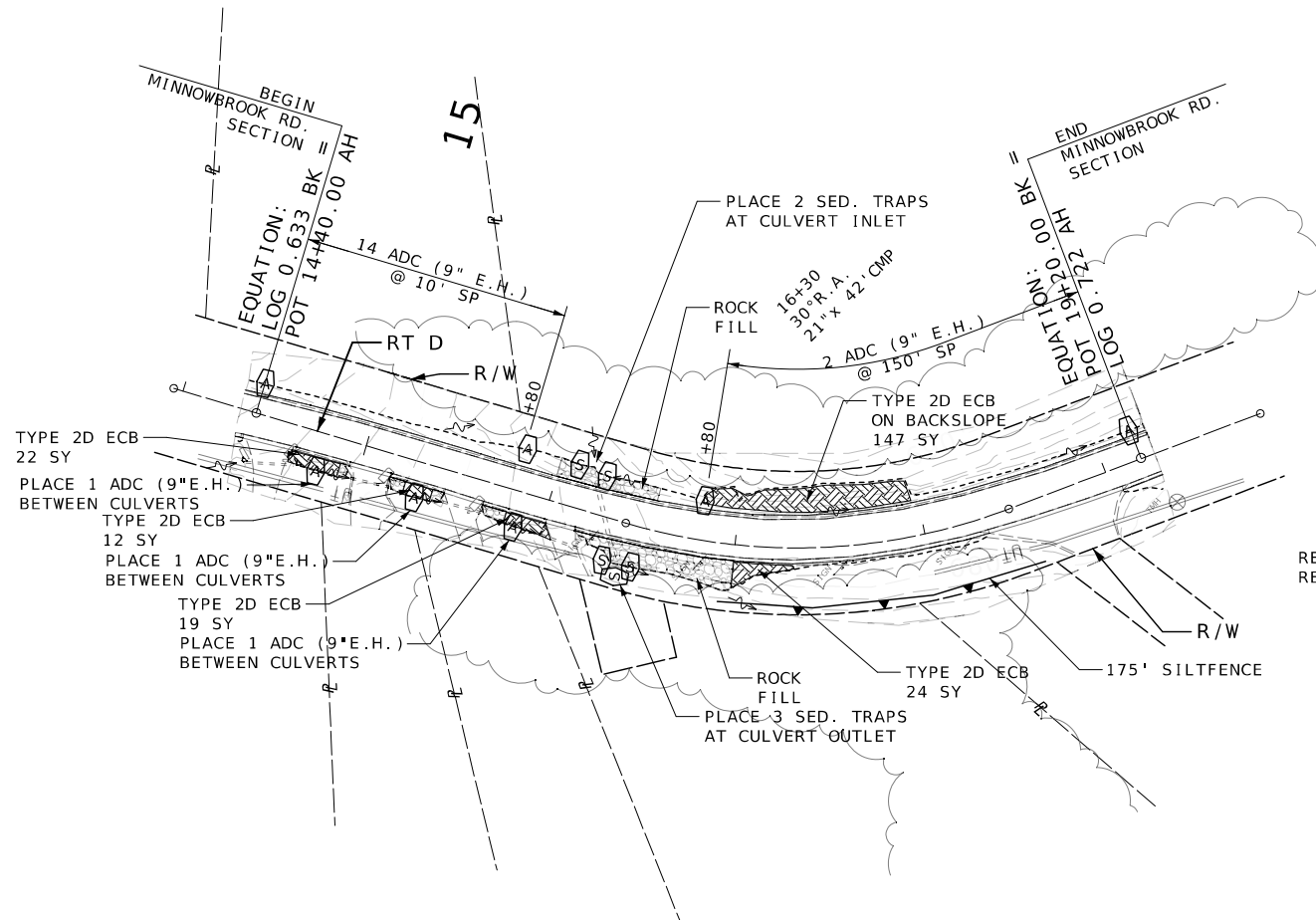
TEMPORARY
EROSION CONTROL
ROUTE D SURVEY &
PEACEFUL VALLEY ROAD
SHEET 4 OF 5



CLEARING AND GRUBBING Lt. = 0.04 AC
CLEARING AND GRUBBING Rt. = 0.03 AC
REGION 3 SEEDING Lt. = 0.14 AC
REGION 3 SEEDING Rt. = 0.09 AC

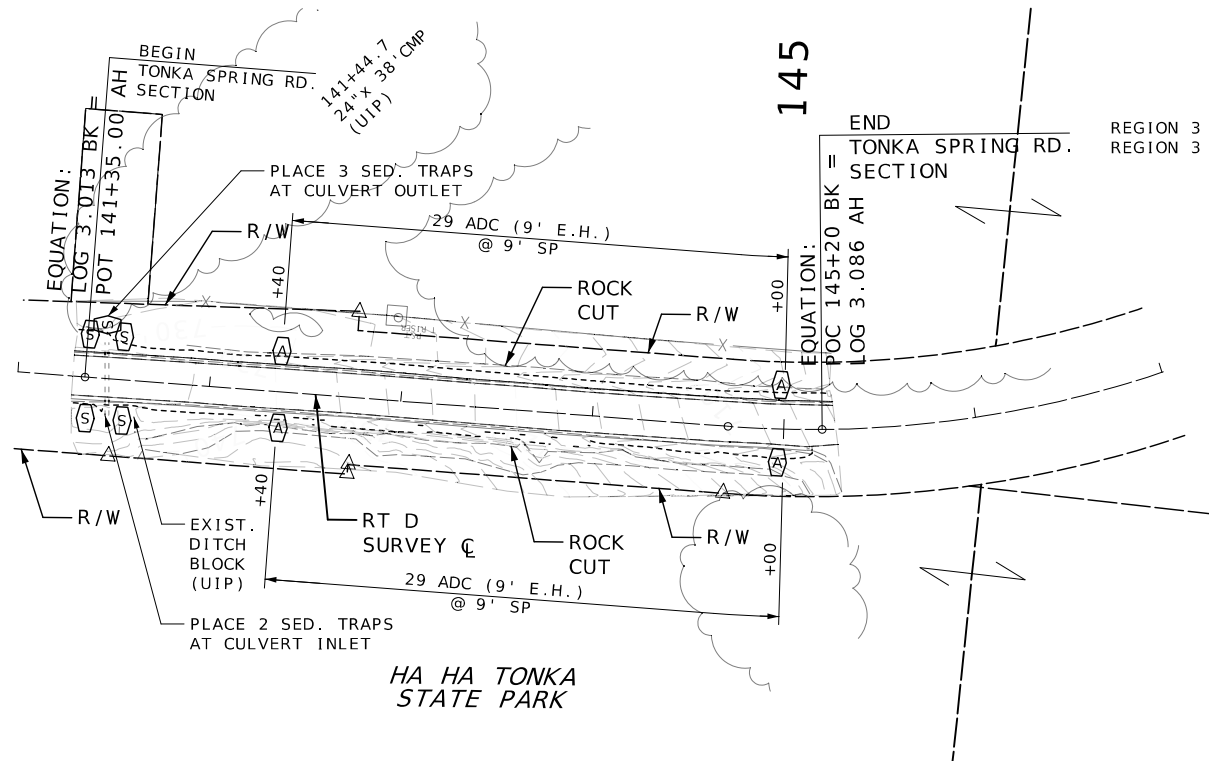
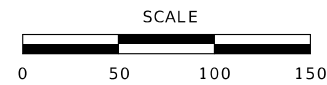


CLEARING AND GRUBBING Lt. = 0 AC
CLEARING AND GRUBBING Rt. = 0.02 AC
REGION 3 SEEDING Lt. = 0.03 AC
REGION 3 SEEDING Rt. = 0 AC



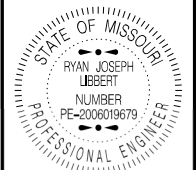
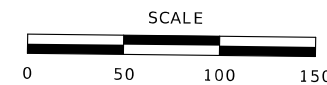
REGION 3 SEEDING Lt. = 0.07 AC
 REGION 3 SEEDING Rt. = 0.02 AC

PLAN OF ROUTE D AT MINNOWBROOK ROAD



REGION 3 SEEDING Lt. = 0.04 AC
 REGION 3 SEEDING Rt. = 0.03 AC

PLAN OF ROUTE D AT TONKA SPRINGS ROAD

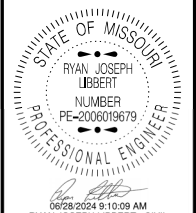


DATE PREPARED: 6/25/2024
 ROUTE: D/E STATE: MO
 DISTRICT: CD SHEET NO.: 29
 COUNTY: CAMDEN/LACLEDE
 JOB NO.: J553336
 CONTRACT ID.:
 PROJECT NO.:
 BRIDGE NO.:

DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
 MoDOT
 105 WEST CAPITOL
 JEFFERSON CITY, MO 65102
 1-888-ASK-MODOT (1-888-273-6636)

TEMPORARY
 EROSION CONTROL
 RTE D AT MINNOWBROOK RD
 AND TONKA SPRING ROAD
 SHEET 5 OF 5



DATE PREPARED
6/27/2024

ROUTE	STATE
D/E	MO
DISTRICT	SHEET NO.
CD	30

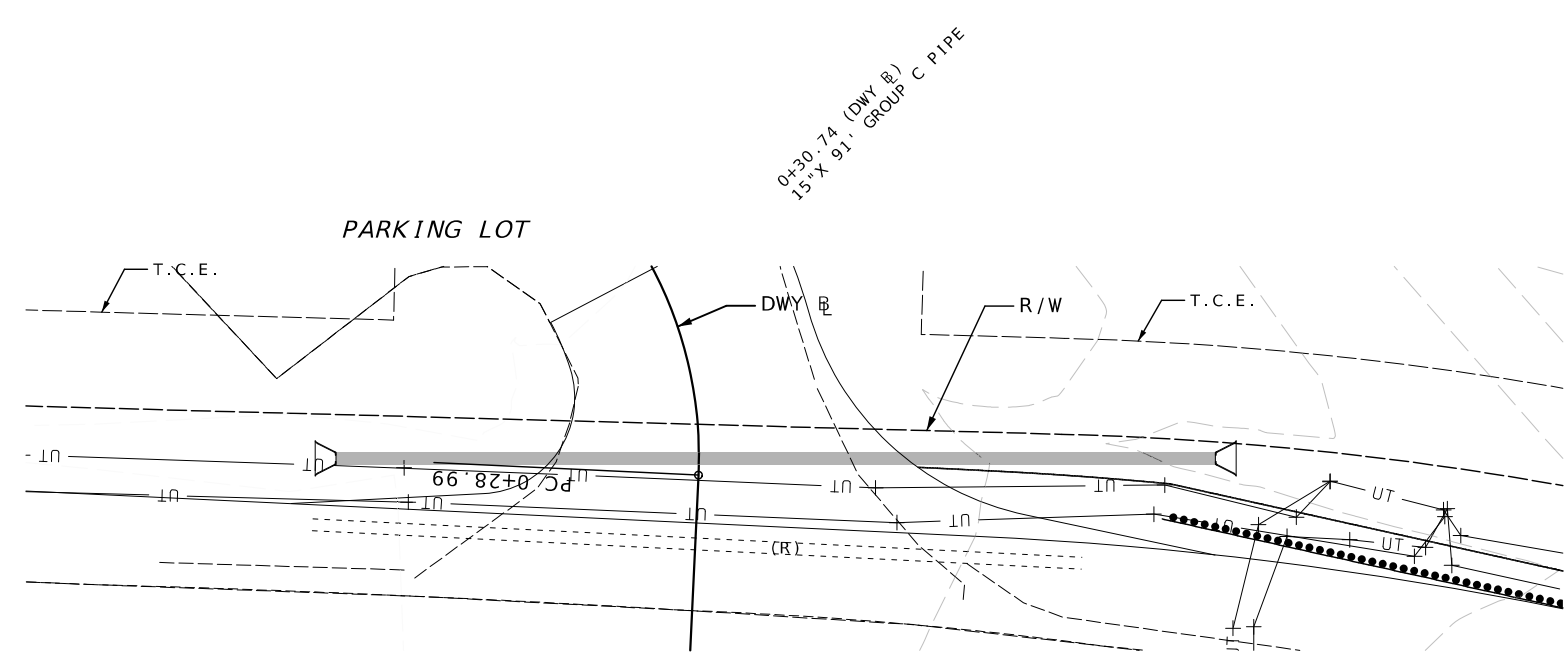
COUNTY
CAMDEN/LACLEDE

JOB NO.
J553336

CONTRACT ID.

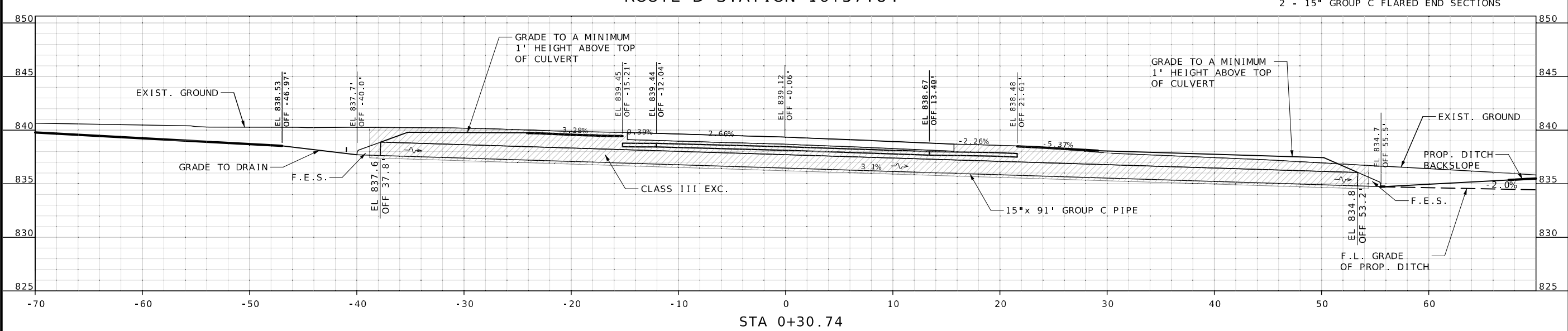
PROJECT NO.

BRIDGE NO.



PLAN OF CULVERT
CROSSING DRIVEWAY AT
ROUTE D STATION 16+57.84

CULVERT:
STA 0+30.74 DWY @
15" X 91' GROUP C PIPE
CLASS III EXC. = 39 CY
2 - 15" GROUP C FLARED END SECTIONS



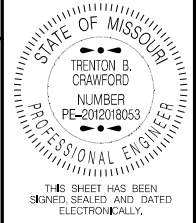
DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION
COMMISSION

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

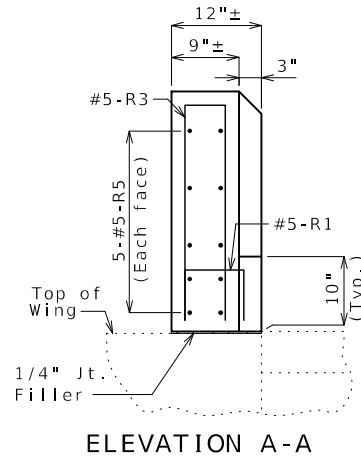
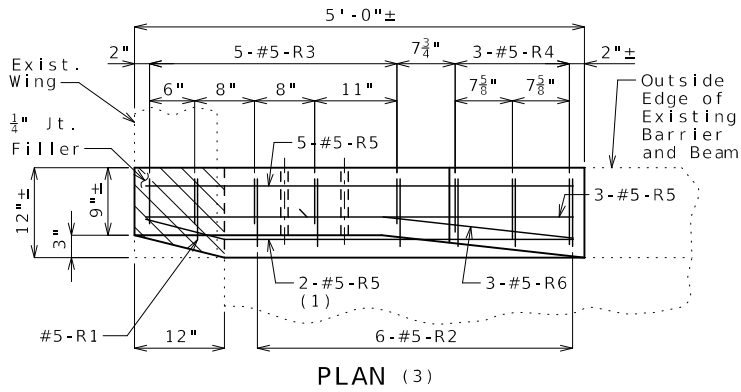
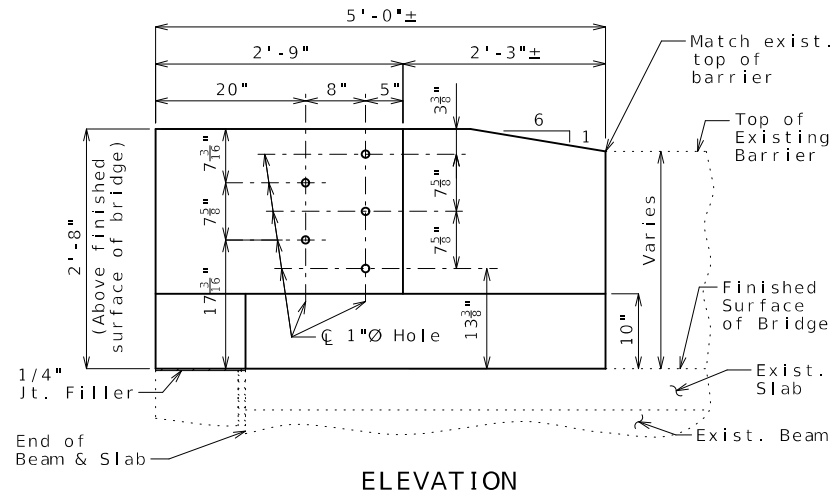
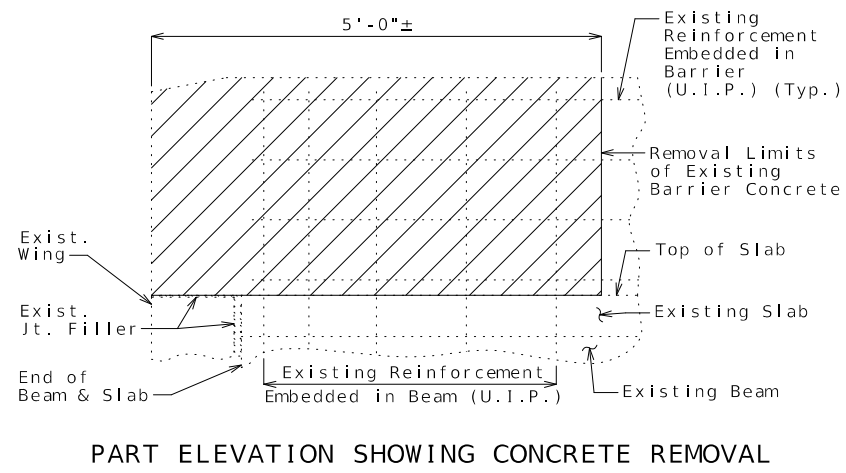
CULVERT SECTION
DRIVEWAY ALONG
ROUTE D (16+57.84)
SHEET 1 OF 1

U.I.P. & REHABILITATE EXISTING (45', 60', 45') SIMPLE PRESTRESSED CONCRETE SPREAD CORED SLAB SPANS (SKEW: SQUARE)

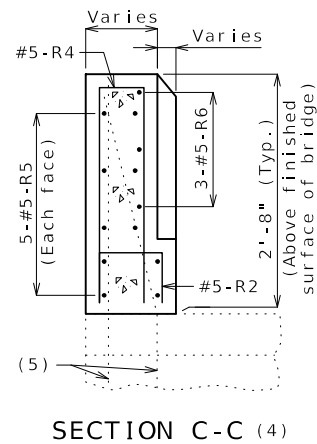
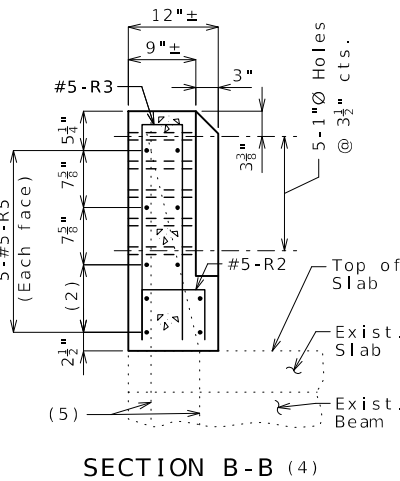
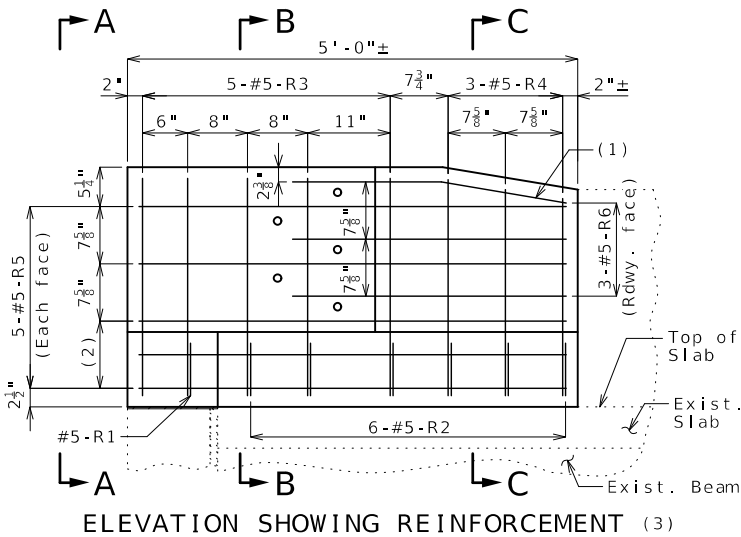


DATE PREPARED 7/3/2024	
ROUTE D	STATE MO
DISTRICT BR	SHEET NO. 1
COUNTY CAMDEN	
JOB NO. J5S3336	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO. B03421	

Estimated Quantities		
Item	each	Total
Barrier End Modification	4	4



- (1) Bend in field.
- (2) 2 Spa. @ 4 1/2"
- (3) Existing reinforcement not shown for clarity.
- (4) Existing longitudinal reinforcement not shown for clarity.
- (5) Existing reinforcement embedded in beam (U.I.P.) (Bend in field as needed) (Typ.)



General Notes:

Design Specifications:
2002 AASHTO LFD (17th Ed.) Standard Specifications

Design Unit Stresses:
Class B-1 Concrete f'c = 4,000 psi
Reinforcing Steel (Grade 60) fy = 60,000 psi

Reinforcing Steel:
Minimum clearance to reinforcing steel shall be 1 1/2", unless otherwise shown.

Traffic Handling:
Traffic to be maintained on structure during construction. See roadway plans for traffic control.

Miscellaneous:
All exposed edges of barrier shall have either a 1/2-inch radius or a 3/8-inch bevel, unless otherwise shown.

Outline of existing work is indicated by light dashed lines. Heavy lines indicate new work.

All reinforcement in barrier end modification shall be epoxy coated.

Bars bonded in existing concrete not removed shall be cleanly stripped and embedded into new concrete where possible. If length is available, existing bars shall extend into new concrete at least 40 diameters for plain bars and 30 diameters for deformed bars, unless otherwise noted.

The area exposed by the removal of concrete and not covered with new concrete shall be coated with a qualified special mortar in accordance with Sec 704.

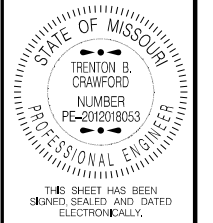
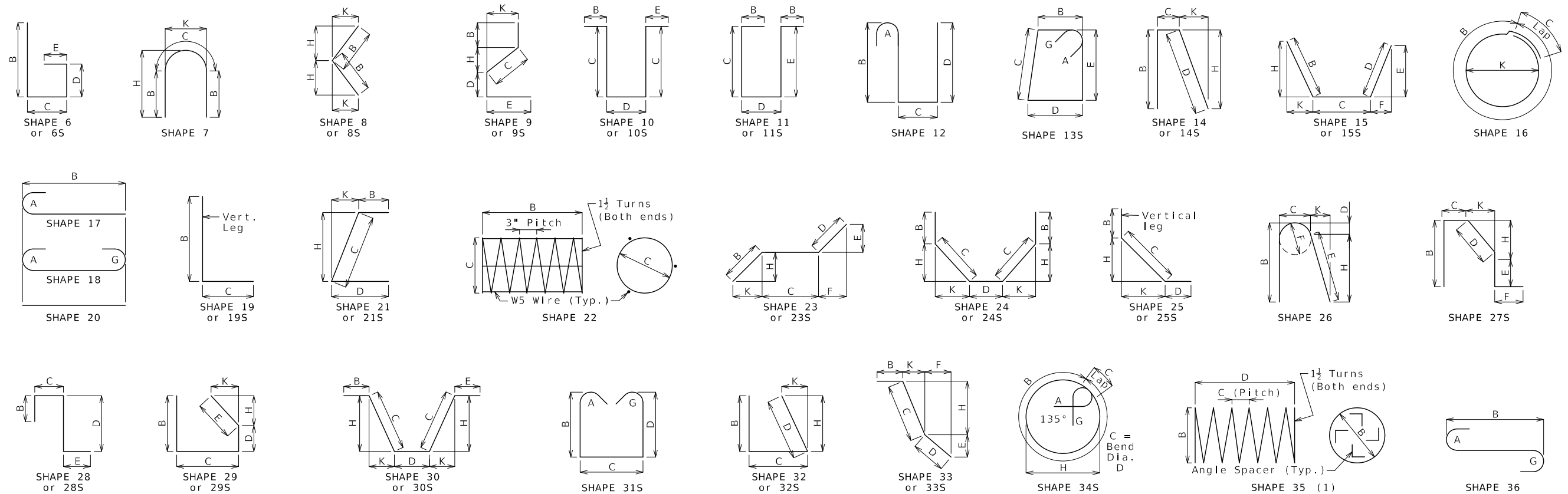
Cost of removing existing barrier concrete, and cost of furnishing and installing new concrete, new reinforcing steel, and any other work incidental to the barrier end modification, complete in place, will be considered completely covered by the contract unit price for Barrier End Modification.

REPAIRS TO BRIDGE:
ROUTE D OVER SPENCER CREEK

ROUTE D FROM ROUTE 54 TO ROUTE E
ABOUT 3.3 MILES SOUTH OF ROUTE 54
BEGINNING STATION 100+10.00± (MATCH EXISTING)

BARRIER MODIFICATION FOR GUARDRAIL ATTACHMENT

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



DATE PREPARED
7/3/2024
ROUTE
D MO
DISTRICT
BR SHEET NO.
2
COUNTY
CAMDEN
JOB NO.
J5S3336
CONTRACT ID.
PROJECT NO.
BRIDGE NO.
B03421

DESCRIPTION	DATE

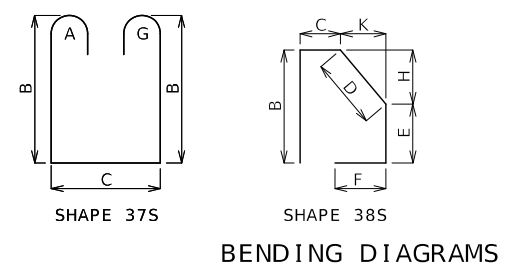
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

Finished Bend Diameters D and Hook Dimensions

Standard Pin Bend Shapes						
Size	Case	D	A or G		J	
			90°	180°	180°	180°
#4	1	3"	8"	6"	4"	4"
#5	1	3 3/4"	10"	7"	5"	5"
#6	1	4 1/2"	12"	8 1/2"	6"	6"
#7	2	5 1/4"	14"	9 3/4"	7"	7"
	3	7"	15"	11 1/2"	8 3/4"	8 3/4"
#8	2	6"	16"	11"	8"	8"
	3	8"	17"	13 3/4"	10"	10"
#9	1	9 1/2"	19 1/2"	15 1/2"	11 3/4"	11 3/4"
#10	1	10 3/4"	22"	17 1/2"	13 1/4"	13 1/4"
#11	1	12"	24 1/2"	19 1/2"	14 7/8"	14 7/8"
#14	1	18 1/4"	31 1/4"	27 1/2"	21 5/8"	21 5/8"
#18	1	24"	41 1/2"	36 1/4"	28 1/2"	28 1/2"

Stirrup Pin Bend Shapes (S)							
Size	Case	D	A or G			H	J
			90°	135°	180°		
#4	2	2"	4 1/2"	4 1/2"	5"	2 7/8"	3"
	3	3"	5"	5 1/4"	6"	3"	4"
#5	2	2 1/2"	5 3/4"	5 3/4"	5 3/4"	3 3/8"	3 3/4"
	3	3 3/4"	6 1/4"	6 1/4"	7"	3 5/8"	5"
#6	1	4 1/2"	12"	7 3/4"	8 1/4"	4 3/8"	6"

Applicable for all grades of steel.
Case 1 applies to all reinforcement. Case 2 applies to all reinforcement except for galvanized bars. Case 3 applies to galvanized bars only.



All dimensions are out to out. (1) Shall be a deformed or plain spiral bar or wire.
Shapes ending with an S shall be bent in accordance with stirrup pin bend shapes.
Unless otherwise noted, finished bending diameter D is the same for all bends of a shape.
Four angle or channel spacers are required for each column spiral. Spacers are to be placed on inside of spirals. Length and weight of column spirals do not include splices or spacers.

Reinforcing Steel Totals (Pounds)

Size	Substructure		Superstructure			Entire Bridge	
	Plain	Epoxy	Slab	Barrier	Slip Form	Plain	Epoxy
W5	0	0	0	0	0	0	0
4	0	0	0	0	0	0	0
5	0	0	0	453	0	0	453
6	0	0	0	0	0	0	0
7	0	0	0	0	0	0	0
8	0	0	0	0	0	0	0
9	0	0	0	0	0	0	0
10	0	0	0	0	0	0	0
11	0	0	0	0	0	0	0
14	0	0	0	0	0	0	0
18	0	0	0	0	0	0	0
By Type	0	0	0	453	0	0	453

All superstructure reinforcing steel shall be epoxy coated unless otherwise specified.

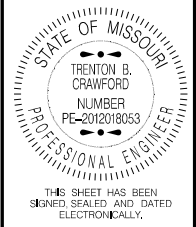
BENDING DIAGRAMS AND REINFORCING STEEL TOTALS

Bill of Reinforcing Steel

No. Req.	Size/Mark	Location	Codes			Dimensions								Nom. Length ft in.	Actual Length ft in.	Weight lb
			C	SH	V	B	C	D	E	F	H	K				
						ft in.	ft in.	ft in.	ft in.	ft in.	ft in.	ft in.				
		End Post Mod.														
4	5 R1	MODIFIED END	E	10S			7.00	8.00					1 10	1 7	7	
24	5 R2	MODIFIED END	E	10S			7.00	9.00					1 11	1 8	42	
20	5 R3	MODIFIED END	E	10S		2	5.00	6.00					5 4	5 1	106	
12	5 R4	MODIFIED END	E	10S	4		2 4.75	7.00					5 5	5 2		
		Incr. = 2.000*				2	2.25	8.50					5 1	4 10	63	
40	5 R5	MODIFIED END	E	20		4	9.00						4 9	4 9	198	
12	5 R6	MODIFIED END	E	15S		11.25	2 1.50			1.25	11.25		3 1	2 11	37	

Bill of Reinforcing Steel

No. Req.	Size/Mark	Location	Codes			Dimensions								Nom. Length ft in.	Actual Length ft in.	Weight lb
			C	SH	V	B	C	D	E	F	H	K				
						ft in.	ft in.	ft in.	ft in.	ft in.	ft in.	ft in.				



DATE PREPARED
7/3/2024

ROUTE D STATE MO
DISTRICT BR SHEET NO. 3

COUNTY CAMDEN
JOB NO. J553336
CONTRACT ID.

PROJECT NO.

BRIDGE NO. B03421

DATE	
DESCRIPTION	

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-273-6636)

Nominal lengths are based on out to out dimensions shown in bending diagrams and are listed to the nearest inch for fabricator's use. Actual lengths are measured along centerline bar to the nearest inch. Weights are based on actual lengths.

All bars shall be Grade 60.

Codes: C = Required coatings, where E = Epoxy Coated and G = Galvanized.

SH = Required shape, see bending diagrams.

V = Sets of varied bars and number of bars of each length. Bar dimensions vary in equal increments between dimensions shown on this line and the following line and the actual length dimension shown on this line and the following line vary by the specified increment.

For bending diagrams and steel reinforcing totals, see Sheet No. 2.

BILL OF REINFORCING STEEL

**DESIGN DESIGNATION
ROUTE N**

A.A.D.T. - 2025 = 392
 A.A.D.T. - 2035 = 412
 T = 10.13%
 V = 35/55 M.P.H.

FUNCTIONAL CLASSIFICATION-MINOR COLLECTOR

**DESIGN DESIGNATION
ROUTE W**

A.A.D.T. - 2025 = 575
 A.A.D.T. - 2035 = 604
 T = 6.42%
 V = 35/45 M.P.H.

FUNCTIONAL CLASSIFICATION-MINOR COLLECTOR

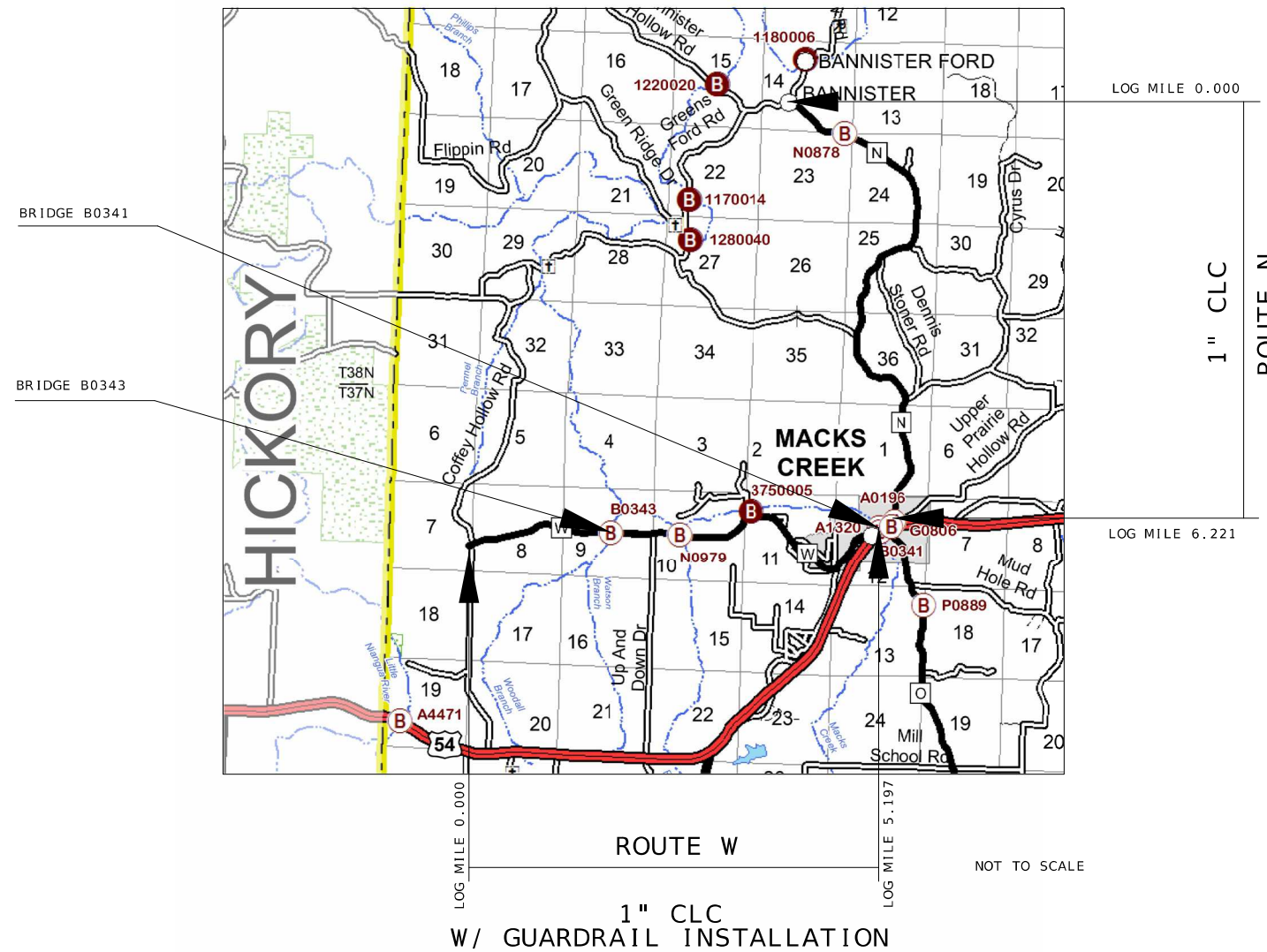
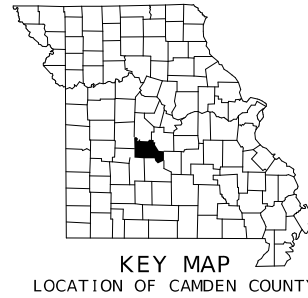
NO NEW R/W REQUIRED

**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	-V-	-V-
WOVEN WIRE	-X-	-X-
GATE POST		
BENCHMARK		

NOTE: DASHED OR OPEN SYMBOLS INDICATE EXISTING FEATURES

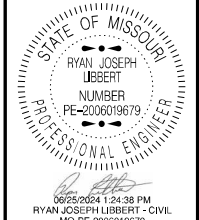
**MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
 PLANS FOR PROPOSED
 STATE HIGHWAY
 CAMDEN COUNTY**



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
SPECIAL SHEETS (SS)	4-6
TRAFFIC CONTROL SHEETS (TC)	7-13
SIGNING (SN)	14
BRIDGE DRAWINGS (B)	
B03411	4
B03431	4



DATE PREPARED
6/18/2024

ROUTE N/W	STATE MO
DISTRICT CD	SHEET NO. 1

COUNTY
CAMDEN

JOB NO.
JCD0099

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION	DATE

**LENGTH OF PROJECT
ROUTE N**

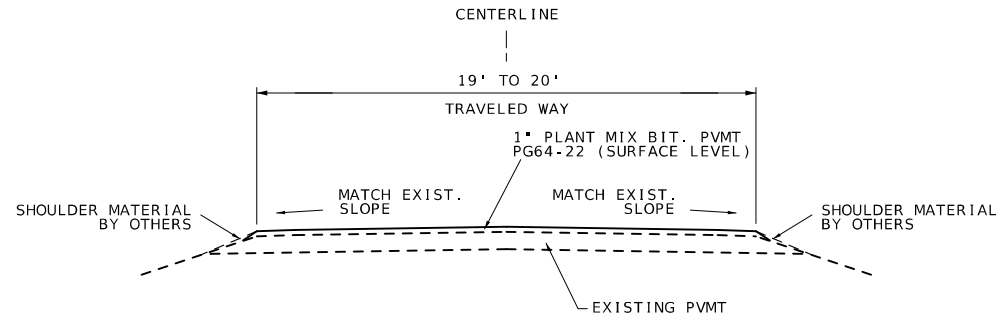
BEGINNING OF PROJECT	LOG MILE 0.000
END OF PROJECT	LOG MILE 6.221
APPARENT LENGTH	32846.88 FEET
EQUATIONS AND EXCEPTIONS:	NONE

**LENGTH OF PROJECT
ROUTE W**

BEGINNING OF PROJECT	LOG MILE 0.000
END OF PROJECT	LOG MILE 5.197
APPARENT LENGTH	27440.16 FEET
EQUATIONS AND EXCEPTIONS:	NONE
TOTAL CORRECTIONS	000.0 FEET
NET LENGTH OF PROJECT	60287.04 FEET
STATE LENGTH	11.418 MILES
FOR INFORMATION ONLY ESTIMATED DISTURBED ACRES	0 ACRES

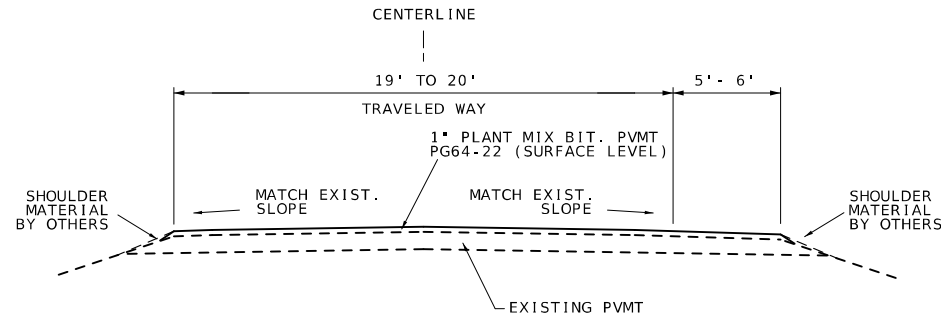
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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



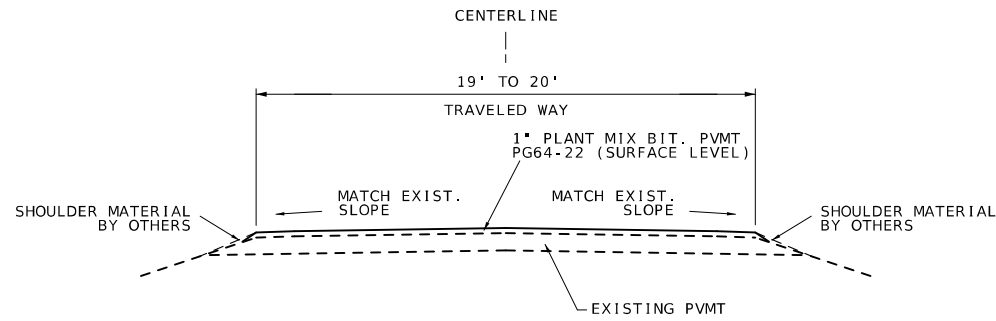
**TYPICAL SECTION
ROUTE N**

LOG MILE 0.000 TO LOG MILE 5.998
LOG MILE 6.154 TO LOG MILE 6.221



**TYPICAL SECTION
ROUTE N**

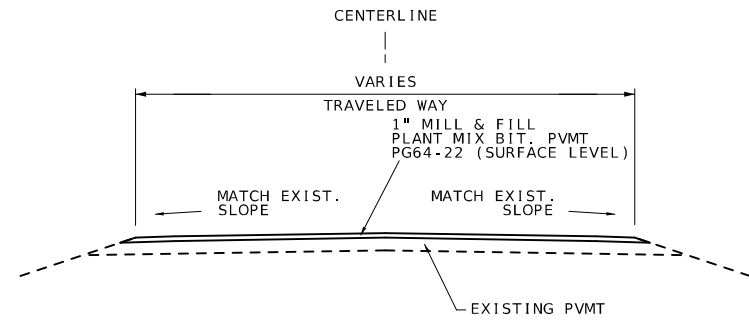
LOG MILE 5.998 TO LOG MILE 6.154



**TYPICAL SECTION
ROUTE W**

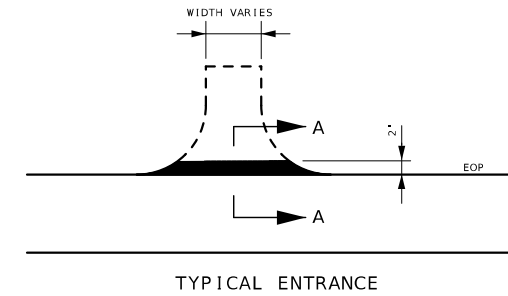
LOG MILE 0.000 TO LOG MILE 5.148

BRIDGE B0343 - LOG MILE 1.583 TO LOG MILE 1.607
BRIDGE B0341 - LOG MILE 5.121 TO LOG MILE 5.148

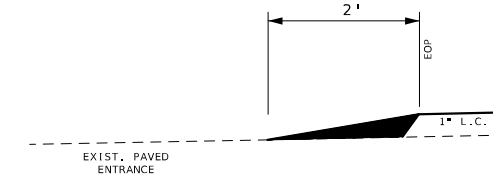


**TYPICAL SECTION
ROUTE W**

LOG MILE 5.148 TO LOG MILE 5.197

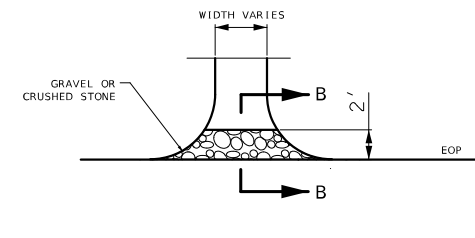


TYPICAL ENTRANCE

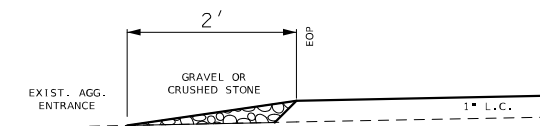


SECTION A-A

TYPICAL PAVED ENTRANCE



TYPICAL ENTRANCE

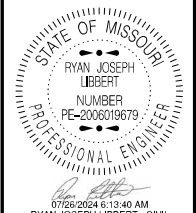


SECTION B-B

TYPICAL AGGREGATE ENTRANCE
(TAPER 1:1 AT FIELD ENTRANCES)

BITUMINOUS PAVEMENT MIXTURE PG64-22 (SURFACE LEVELING)	1.987 TON/YD ³
TACK COAT-OVERLAY	.08 GAL/YD ²
TACK COAT-COLDMILLING	.10 GAL/YD ²
EMULSION RATE	.40 GAL/YD ²

NOTE:
SURFACE PLACEMENT SHALL BE ONE PASS PER LANE
NO S.E. CORRECTION.



DATE PREPARED
7/25/2024
ROUTE N/W
STATE MO
DISTRICT CD
SHEET NO. 2

COUNTY
CAMDEN
JOB NO.
JCD0099
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)

REMOVAL OF IMPROVEMENTS							
APPROX. LOG MILE		LOCATION	QTY (EA)	QTY (FT)	QTY (SF)	DESCRIPTION	REMARKS
FROM	TO						
ROUTE W							
1.587		ROUTE W LT. & RT.	12			OBJECT MARKERS AND POSTS	BRIDGE B0343
2.363		ROUTE W LT. & RT.	4			OBJECT MARKERS AND POSTS	BOX N0979
5.197		ROUTE W LT. & RT.	9			OBJECT MARKERS AND POSTS	BRIDGE B0341
5.197		ROUTE W LT. & RT.	3			OBJECT MARKERS	BRIDGE B0341 - SIGNS ONLY
5.197		ROUTE W RT.		60		SAWCUT	PAVED SHOULDER (50' +10')
5.197		ROUTE W RT.			500	ASPHALT PAVEMENT	PAVED SHOULDER
TOTAL			LUMP SUM			SEE SPECIAL SHEETS FOR DETAILS	

BITUMINOUS PAVEMENT QUANTITIES - ALL ROUTES					
APPROX. LOG MILE		LOCATION	SURF. LEVEL PG 64-22 (T)	TACK (GAL)	REMARKS
FROM	TO				
ROUTE N					
0.000	6.221	ROUTE N	4,871.90	5,885.49	
ROUTE W					
0.000	5.197	ROUTE W	4,095.38	4,984.45	
TOTAL			8,967.28	10,869.94	
USE			8,967.3	10,870	

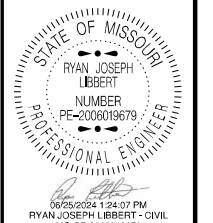
GRAVEL (A), CRUSHED STONE (B)							
APPROX. LOG MILE		LOCATION	LENGTH (FT)	WIDTH (FT)	THICKNESS (IN (AVG.))	GRAVEL, CRUSHED STONE (TON)	REMARKS
FROM	TO						
ROUTE N							
0.000			20	20	1.0	15.60	BEGIN RTE.
0.000	6.221	ROUTE N LT. & RT.	2415	2	1.0	355.00	GRAVEL ENTRANCES FROM BEGIN RTE. TO END RTE.
ROUTE W							
0.000		ROUTE W	20	20	1.0	15.60	
0.000	5.197	ROUTE W LT. & RT.	2635	2	1.0	450.00	GRAVEL ENTRANCES FROM BEGIN RTE. TO END RTE.
TOTAL						836.20	
USE						836	

MOBILIZATION	
1 LUMP SUM	

BITUMINOUS PAVEMENT QUANTITIES - ROUTE N								
APPROX. LOG MILE		LOCATION	LENGTH (FT)	AVG. WIDTH (FT)	DEPTH (IN)	SURF. LEVEL PG 64-22 (T)	TACK (GAL)	REMARKS
FROM	TO							
ROUTE N								
0.000	5.998	ROUTE N	31,669.44	20.00	1.00	3,884.39	5,630.12	FROM BEGIN RTE. N TO WIDENING
5.998	6.154	ROUTE N	823.68	25.50	1.00	128.81	186.70	WIDENING (20' TRAVELWAY WITH 5.5' WIDENING, AVG.)
6.154	6.221	ROUTE N	353.76	20.00	1.00	43.39	62.89	FROM WIDENING TO END RTE. N
		ROUTE N LT. & RT.	325.00	2.00	1.00	3.99	5.78	PAVED ENTRANCES FROM BEGIN RTE. TO END RTE.
						811.32		20% FOR IRREGULARITIES
TOTAL						4,871.90	5,885.49	SEE TYPICAL SECTION SHEET FOR ESTIMATE FACTORS
USE						4,871.9	5,885	

BITUMINOUS PAVEMENT QUANTITIES - ROUTE W								
APPROX. LOG MILE		LOCATION	LENGTH (FT)	AVG. WIDTH (FT)	DEPTH (IN)	SURF. LEVEL PG 64-22 (T)	TACK (GAL)	REMARKS
FROM	TO							
ROUTE W								
0.000	1.583	ROUTE W	8,358.24	20.00	1.00	1,025.17	1,485.91	FROM BEGIN RTE. W TO BRIDGE B0343
1.583	1.607	ROUTE W	126.72	20.00	2.00	31.09	45.06	BRIDGE B0343 (2 - 1" LIFTS)
1.607	5.121	ROUTE W	18,553.92	20.00	1.00	2,275.72	3,298.47	FROM BRIDGE B0343 TO BRIDGE B0341
4.428		CARNHAN RD.	880.00		1.00	5.40	9.78	SEE SPECIAL SHEET
5.121	5.148	ROUTE W	142.56	20.00	2.00	34.97	50.69	BRIDGE B0341 (2 - 1" LIFTS)
5.148	5.197	ROUTE W	7,700.00		1.00	47.22	85.56	FROM BRIDGE B0341 TO END RTE. W
ROUTE W LT. & RT.			505.00	2.00	1.00	6.19	8.98	PAVED ENTRANCES FROM BEGIN RTE. TO END RTE.
						669.62		20% FOR IRREGULARITIES
TOTAL						4,095.38	4,984.45	SEE TYPICAL SECTION SHEET FOR ESTIMATE FACTORS
USE						4,095.4	4,984	

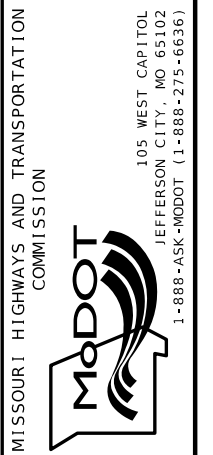
SUMMARY OF QUANTITIES
SHEET 1 OF 3

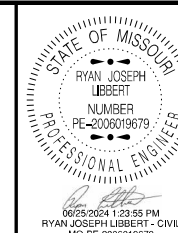


DATE PREPARED
6/24/2024
ROUTE N/W
STATE MO
DISTRICT CD
SHEET NO. 3

COUNTY
CAMDEN
JOB NO.
JCD0099
CONTRACT ID.
PROJECT NO.
BRIDGE NO.

DATE	DESCRIPTION





DATE PREPARED
6/24/2024

ROUTE N/W
MO

DISTRICT CD
3

COUNTY
CAMDEN

JOB NO.
JCD0099

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION

DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION



PAVEMENT MARKING							
APPROX. LOG MILE FROM TO		LOCATION	LENGTH (FT)	WATERBORNE PAVEMENT MARKING PAINT, TYPE P BEADS			REMARKS
				4" SOLID WHITE (FT)	4" INT. YELLOW (FT)	4" SOLID YELLOW (FT)	
ROUTE N							
0.000	6.221	ROUTE N	32,846.88			65,693.76	CENTERLINE
5.998	6.221	ROUTE N LT. & RT.	1,177.44	2,354.88			EDGELINES
ROUTE W							
0.000	0.365	ROUTE W	1,927.20			3,854.40	CENTERLINE
0.365	0.486	ROUTE W	638.88		159.7	638.88	CENTERLINE
0.486	0.565	ROUTE W	417.12			834.24	CENTERLINE
0.565	0.686	ROUTE W	638.88		159.7	638.88	CENTERLINE
0.686	0.985	ROUTE W	1,578.72			3,157.44	CENTERLINE
0.985	1.266	ROUTE W	1,483.68		370.9	1,483.68	CENTERLINE
1.266	1.365	ROUTE W	522.72			1,045.44	CENTERLINE
1.365	1.524	ROUTE W	839.52		209.9	839.52	CENTERLINE
1.524	1.624	ROUTE W	528.00		132.0		CENTERLINE
1.624	1.784	ROUTE W	844.80		211.2	844.80	CENTERLINE
1.784	2.264	ROUTE W	2,534.40			5,068.80	CENTERLINE
2.264	2.384	ROUTE W	633.60		158.4	633.60	CENTERLINE
2.384	2.403	ROUTE W	100.32			200.64	CENTERLINE
2.403	2.503	ROUTE W	528.00		132.0	528.00	CENTERLINE
2.503	3.841	ROUTE W	7,064.64			14,129.28	CENTERLINE
3.841	3.940	ROUTE W	522.72		130.7	522.72	CENTERLINE
3.940	3.961	ROUTE W	110.88			221.76	CENTERLINE
3.961	4.081	ROUTE W	633.60		158.4	633.60	CENTERLINE
4.081	4.102	ROUTE W	110.88			221.76	CENTERLINE
4.102	4.161	ROUTE W	311.52		77.9	311.52	CENTERLINE
4.161	4.849	ROUTE W	3,632.64			7,265.28	CENTERLINE
4.849	5.105	ROUTE W	1,351.68		675.8	1,351.68	CENTERLINE
5.105	5.198	ROUTE W	491.04			982.08	CENTERLINE
TOTAL				2,354.9	2,576.60	111,101.76	
USE				2,355		113,678	

COLDMILLING BITUMINOUS PAVEMENT FOR REMOVAL OF SURFACING (3 IN. THICK OR LESS)						
APPROX. LOG MILE FROM TO		LOCATION	LENGTH (FT)	AVG. WIDTH (FT)	QUANTITY (SY)	REMARKS
ROUTE W						
5.152	5.197	ROUTE W	800.0		800.0	AT END ROUTE
TOTAL					800.00	
USE					800	

GUARDRAIL									
APPROX. LOG MILE FROM TO		LOCATION	MGS BRIDGE APPROACH TRANSITION SEC. (REG/NO CURB) (EA)	BRIDGE ANCHOR SECTION (CURB TYPE) (EA)	MGS GUARDRAIL (LF)	TYPE A GUARDRAIL (LF)	TYPE A C.E.T. (MASH) (EA)	END ANCHOR (EA)	REMARKS
ROUTE W									
1.560	1.583	RTE. W LT. & RT.	2		200.0		2		BRIDGE B0343
1.607	1.629	RTE. W RT.	1		100.0		1		BRIDGE B0343
1.607	1.614	RTE. W LT.		1		12.5		1	BRIDGE B0343
5.120	5.121	RTE. W LT.		1		12.5		1	BRIDGE B0341
5.103	5.121	RTE. W RT.		1		25.0		1	BRIDGE B0341
5.148	5.169	RTE. W RT.	1		12.5		1		BRIDGE B0341
TOTAL			4	3	312.5	50.0	5	2	SEE SPECIAL SHEETS FOR DETAILS.
USE			4	3	313	50	5	2	

MODIFIED COLDMILLING (DEPTH TRANSITIONS)							
APPROX. LOG MILE FROM TO		LOCATION	LENGTH (FT)	AVG. WIDTH (FT)	QUANTITY (SY)	REMARKS	
ROUTE N							
6.216	6.221	ROUTE N	25.0	20.0	55.6	END RTE. TRANSITION	
ROUTE W							
4.428		CARNAHAN RD.	VAR.	10.0	98.0	SEE SPECIAL SHEET	
5.148	5.152	ROUTE W	25.0	20.0	55.6	AT BRIDGE B0341	
TOTAL					209.20		
USE					209		

SHAPING SLOPES, CLASS III				
APPROX. LOG MILE FROM TO		LOCATION	SHAPING SLOPES CLASS III (STA.)	REMARKS
ROUTE W				
1.560	1.583	RTE. W LT. & RT.	1.5	BRIDGE B0343
1.607	1.629	RTE. W RT.	0.75	BRIDGE B0343
	5.121	RTE. W RT.	0.75	BRIDGE B0341
5.148		RTE. W RT.	0.75	BRIDGE B0341
TOTAL			3.75	SEE SPECIAL SHEET FOR DETAILS.
USE			4	



ROUTE N - BEGIN ROUTE - LOG MILE 0.000



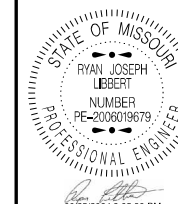
ROUTE N - BRIDGE BOX N0878 - LOG MILE 0.818



ROUTE N - BEGIN WIDENING - LOG MILE 5.998



ROUTE N - END WIDENING - LOG MILE 6.154



DATE PREPARED
6/25/2024

ROUTE STATE
N/W MO

DISTRICT SHEET NO.
CD 4

COUNTY
CAMDEN

JOB NO.
JCD0099

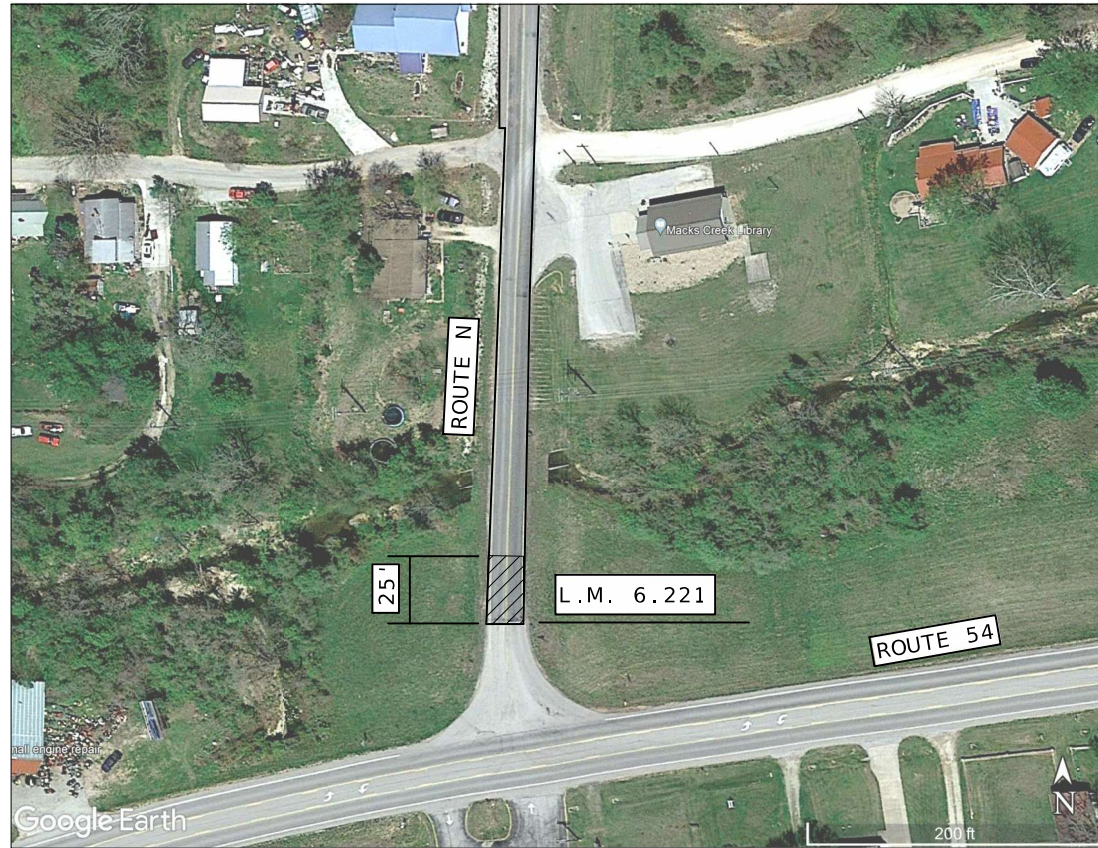
CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DATE	DESCRIPTION

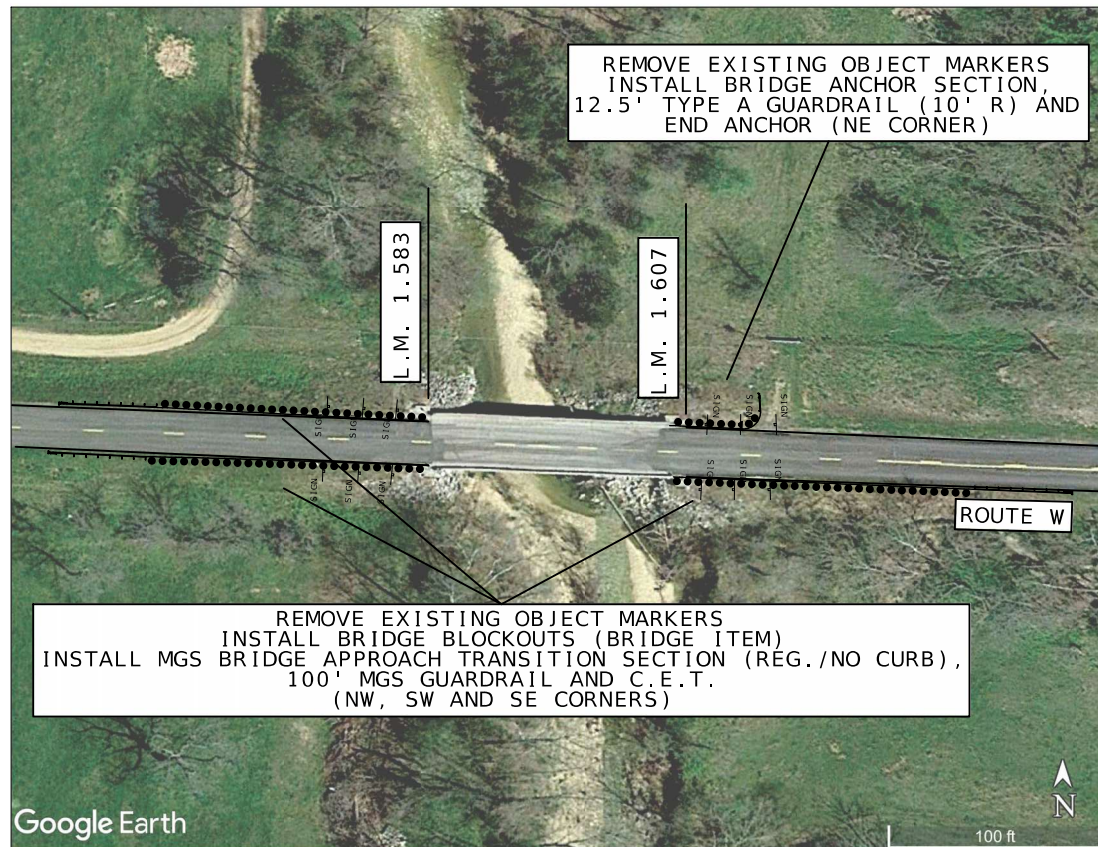
MISSOURI HIGHWAYS AND TRANSPORTATION
COMMISSION
MoDOT
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)



ROUTE N - END ROUTE - LOG MILE 6.221



ROUTE W - BEGIN ROUTE - LOG MILE 0.000



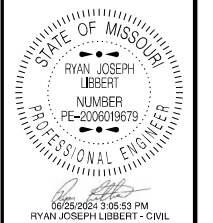
ROUTE W - BRIDGE B0343 - LOG MILE 1.587
SEE SPECIAL SHEET 3 FOR MORE DETAILS



ROUTE W - CULVERT N0979 - LOG MILE 2.349

 MODIFIED MILLING

SPECIAL SHEET
SHEET 2 OF 3



DATE PREPARED 6/25/2024	
ROUTE N/W	STATE MO
DISTRICT CD	SHEET NO. 5
COUNTY CAMDEN	
JOB NO. JCD0099	
CONTRACT ID.	

PROJECT NO.
BRIDGE NO.

DATE	DESCRIPTION

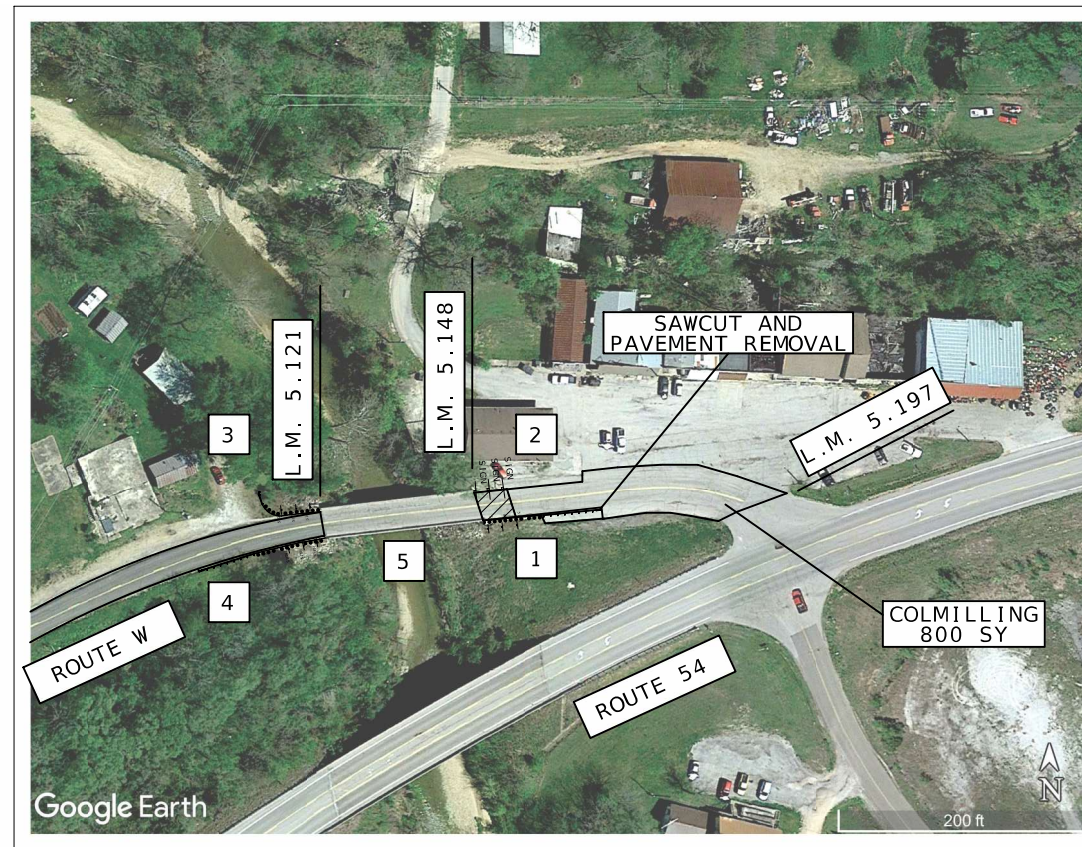
MISSOURI HIGHWAYS AND TRANSPORTATION
COMMISSION



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

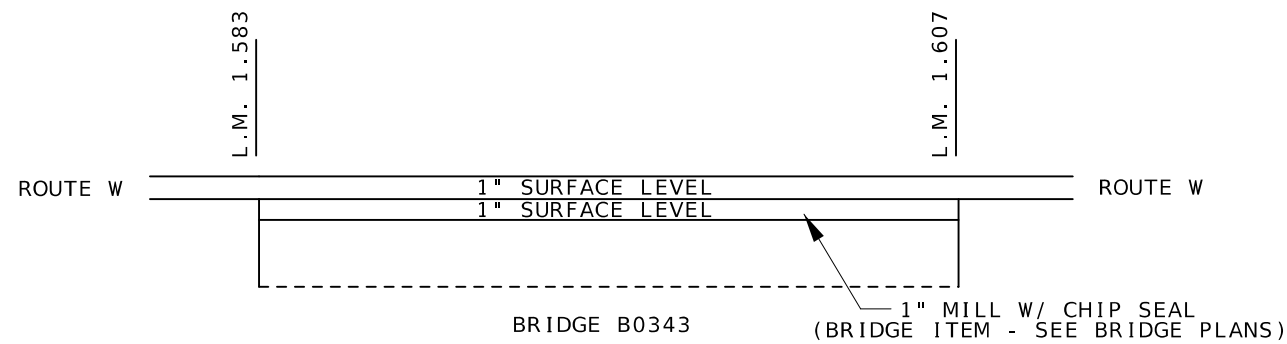


ROUTE W/CARNAHAN RD. - LOG MILE 4.428

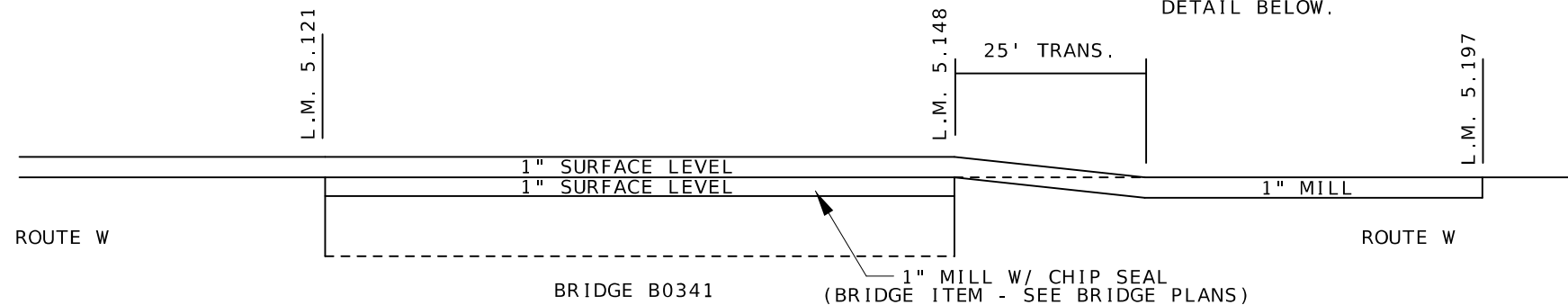


ROUTE W - BRIDGE B0341 - END ROUTE - LOG MILE 5.197

MODIFIED MILLING



SEE SPECIAL SHEET 2 FOR OTHER DETAILS



1. REMOVE EXISTING OBJECT MARKERS. INSTALL BRIDGE BLOCKOUT (BRIDGE ITEM). INSTALL MGS BRIDGE APPROACH TRANSITION SECTION (REG./NO CURB), 12.5' MGS GUARDRAIL AND C.E.T. 50' SAWCUT AT 10' WIDE. APPROX. 500 S.F. ASPHALT PAVEMENT REMOVAL. SHAPING SLOPES CLASS III AT C.E.T. MINIMUM 10' LANE WIDTH.
2. UIP EXISTING SIGN POSTS. INSTALL NEW OBJECT MARKERS SIGNS.
3. REMOVE EXISTING OBJECT MARKERS. INSTALL BRIDGE BLOCKOUT (BRIDGE ITEM). INSTALL BRIDGE ANCHOR SECTION, 12.5' TYPE A GUARDRAIL (15' RADIUS) AND END ANCHOR.
4. REMOVE EXISTING OBJECT MARKERS. INSTALL BRIDGE BLOCKOUT (BRIDGE ITEM). INSTALL BRIDGE ANCHOR SECTION, 25' TYPE A GUARDRAIL AND C.E.T. SHAPING SLOPES CLASS III AT C.E.T.
5. MILL 1" ON BRIDGE (BRIDGE ITEM). PLACE CHIP SEAL (BRIDGE ITEM). APPLY 2 - 1" LIFTS OF SURFACE LEVELING. SEE DETAIL BELOW.

RYAN JOSEPH LIBBERT
NUMBER PE-2006019679
PROFESSIONAL ENGINEER

DATE PREPARED: 6/24/2024
ROUTE: N/W STATE: MO
DISTRICT: CD SHEET NO.: 6
COUNTY: CAMDEN
JOB NO.: JCD0099
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)










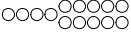
















SIGN SPACING FOR ADVANCE SIGN SERIES (1) (2)		
PERMANENT POSTED SPEED MPH	UNDIVIDED HIGHWAYS (S)	DIVIDED HIGHWAYS (S)
0-35	200'	200'
40-45	350'	500'
50-55	500'	1000'
60-70	1000'	SA - 1000' SB - 1500' SC - 2640'

TAPER LENGTHS AND END TREATMENTS FOR CONCRETE BARRIER				
PERMANENT POSTED SPEED MPH	MINIMUM LANE TAPER LENGTH (3)			END TREATMENT (4)
	10'	11'	12'	
<40	160'	168'	176'	BARRIER HEIGHT TRANSITION
>40	160'	168'	350'	APPROVED CRASH CUSHION

TAPER LENGTHS AND SPACING FOR CHANNELIZERS							
PERMANENT POSTED SPEED MPH	MINIMUM LANE TAPER LENGTH (3) (T2)			MINIMUM SHOULDER TAPER LENGTH BASED ON 10' SHOULDER (T1)	BUFFER LENGTH FT. (B)	MAXIMUM CHANNELIZER SPACING	
	10'	11'	12'			THROUGH TAPER	THROUGH WORK AREA
0-35	205'	225'	245'	70'	400'	35'*	40'*
40-45	450'	495'	540'	150'	400'	40'*	80'*
50-55	550'	605'	660'	185'	560'	50'**	80'**
60-70	700'	770'	840'	235'	840'	60'**	120'**

* SPACING REDUCED TO 1/2 AT INTERSECTIONS.
 ** SPACING MAY BE REDUCED TO 1/2 AT INTERSECTIONS.

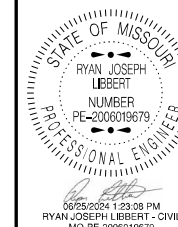
TRAFFIC CONTROL LEGEND

 SIGN (SINGLE SIDED)	 WORK SPACE
 SIGN (DOUBLE SIDED)	 ADVANCE WARNING RAIL SYSTEM
 FLAGGER	 FLASHING ARROW PANEL
 CONE	 FLASHING ELECTRIC LIGHT
 CHANNELIZER	 IMPACT ATTENUATOR ARRAY (SAND BARRELS)
 DIRECTIONAL INDICATOR BARRICADE	 MOVABLE BARRICADE (SIDE VIEW)
 TUBULAR MARKER	 OBJECT MARKER - TYPE I
 MOVABLE BARRICADE (PLAN VIEW)	 OBJECT MARKER - TYPE II
 CHANGEABLE MESSAGE BOARD	 OBJECT MARKER - TYPE III
 TRAFFIC BARRIER (PLAN VIEW)	 LUMINAIRE
 TRAFFIC BARRIER (SECTION VIEW)	 TMA - TRUCK MOUNTED ATTENUATOR
 HIGH-LEVEL WARNING DEVICE (FLAG TREE)	 CRASH CUSHION
 SHORT - TERM OR LONG-TERM RUMBLE STRIPS	 TRAFFIC OR PEDESTRIAN SIGNAL

NOTES:

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

ROADWAY TYPE	SIGN HEIGHT	MAX. WORK ZONE LENGTH (L)
URBAN	1' PORTABLE 7' POST	1 MILE
RURAL DIVIDED	1' PORTABLE 7' POST	2 MILE
RURAL UNDIVIDED	1' PORTABLE 5' POST	3 MILE



DATE PREPARED
6/18/2024

ROUTE N/W STATE MO
DISTRICT CD SHEET NO. 7

COUNTY
CAMDEN

JOB NO.
JCD0099

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

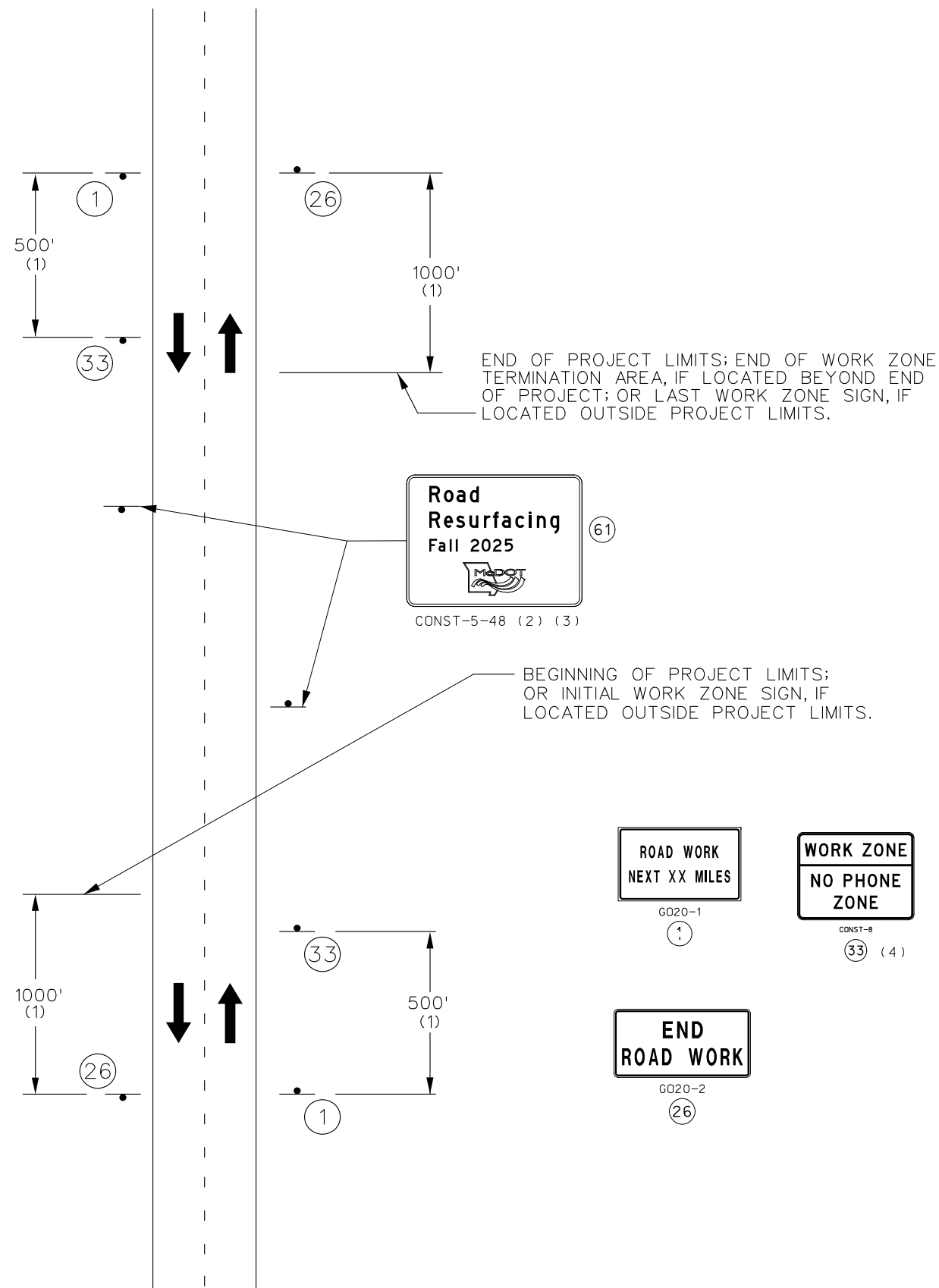
DESCRIPTION

DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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

MoDOT



TWO-LANE UNDIVIDED
BEGIN/END OF PROJECT SIGNING

NOTES:

SIGN G020-2 IS USED ON ALL PROJECTS WHERE SIGN G020-1 IS USED.

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

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

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

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

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

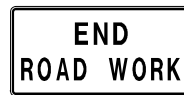
(4) THE "WORK ZONE NO PHONE ZONE" SIGN IS PLACED A MINIMUM OF 500 FEET BEFORE THE ROAD WORK AHEAD SIGN.



G020-1
1



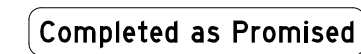
CONST-8
33 (4)



G020-2
26



61



CONST-5-48 SH-FLAT SHEET:
2.250" Radius, 0.625" Border, White on Blue:
"Road", D: "Resurfacing", D: "Fall 2025", D:
Table of letter and object lifts

R	e	s	u	r	f	i	n	g
6,125	10,250	13,500	17,250	21,125	23,625	26,125	29,750	33,500
6,125	8,750	11,750	13,500	17,500	20,500	23,625	26,750	30,250

OPTIONAL: SHOWN DEEP IMPRESSION
LOW: 1/8" TO 1/4" DEEP
CONST-5-48 (1) (2) (3) (4) (5) (6) (7) (8) (9) (10) (11) (12) (13) (14) (15) (16) (17) (18) (19) (20) (21) (22) (23) (24) (25) (26) (27) (28) (29) (30) (31) (32) (33) (34) (35) (36) (37) (38) (39) (40) (41) (42) (43) (44) (45) (46) (47) (48) (49) (50) (51) (52) (53) (54) (55) (56) (57) (58) (59) (60) (61) (62) (63) (64) (65) (66) (67) (68) (69) (70) (71) (72) (73) (74) (75) (76) (77) (78) (79) (80) (81) (82) (83) (84) (85) (86) (87) (88) (89) (90) (91) (92) (93) (94) (95) (96) (97) (98) (99) (100)

TEMPORARY TRAFFIC CONTROL SHEET
BEGIN / END PROJECT SIGNING
2-LANE UNDIVIDED
SHEET 2 OF 7

STATE OF MISSOURI
RYAN JOSEPH LIBERT
NUMBER PE-2006019679
PROFESSIONAL ENGINEER
MO-PE-2006019679
DATE PREPARED 6/18/2024
ROUTE N/W STATE MO
DISTRICT CD SHEET NO. 8
COUNTY CAMDEN
JOB NO. JCD0099
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)

PILOT CAR FOLLOW ME

G020-4

(53)

THIS SIGN SHALL BE THE CONTRACTORS RESPONSIBILITY WHEN IN USE DURING OPERATION.

ROAD WORK AHEAD

W020-1

(2)

ONE LANE ROAD AHEAD

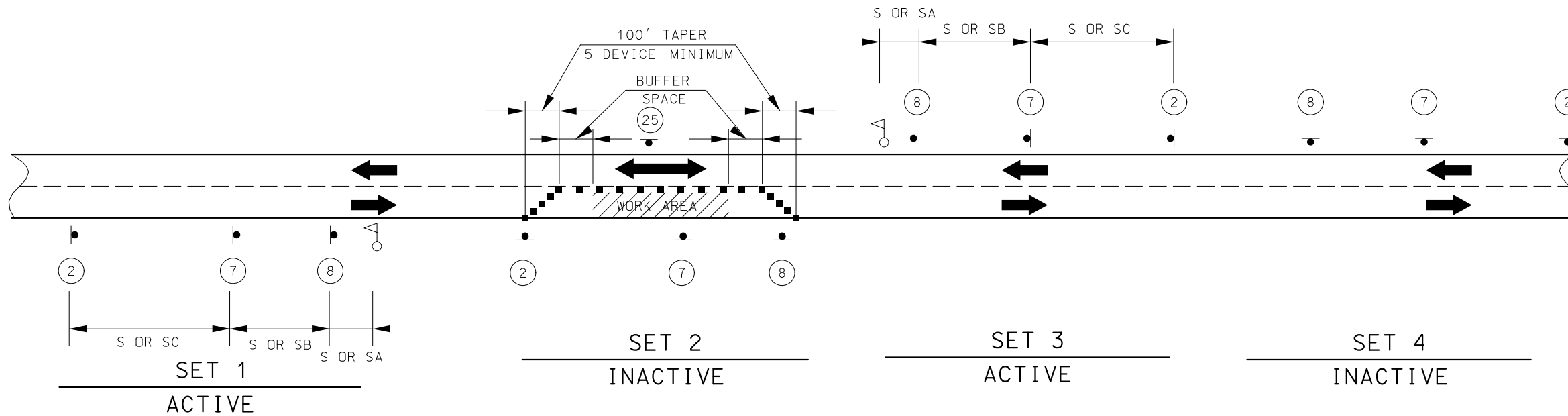
W020-4

(7)

FLASHER

W020-7a

(8)



△ - FLAGGER

■ ■ ■ ■ ■ ■ ■ ■ ■ ■ ■ ■ ■ ■ ■ ■
CHANNELIZERS

NOTES:

DAYLIGHT FLAGGING OPERATIONS ONLY.

CHANNELIZING DEVICES LOCATED DOWNSTREAM OF THE ONE-LANE, TWO-WAY TAPER ARE OPTIONAL. THESE DEVICES SHOULD BE ELIMINATED WHEN THEIR USE WILL REDUCE THE USABLE LANE WIDTH, INCLUDING ANY ACCEPTABLE SHOULDERS, TO LESS THAN 10' OR WILL SIGNIFICANTLY AFFECT THE RESURFACING OPERATION.

SEE TRAFFIC CONTROL SHEET 1 FOR WORK ZONE SPEED LIMIT GUIDELINES, SIGN SPACING, DEVICE SPACING AND CHANNELIZING TAPER LENGTHS.

SIGN SETS 1 AND 3 ARE ACTIVE AND (I.E., SIGNS FACE ONCOMING TRAFFIC).

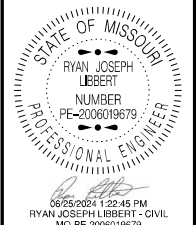
SIGN SETS 2 AND 4 ARE INACTIVE (I.E., SIGNS DO NOT FACE EITHER DIRECTION OF TRAFFIC) WHEN THE RESURFACING OPERATION IS LOCATED BETWEEN SIGN SETS 1 AND 3.

WHEN SIGN SETS 2 AND 4 ARE ACTIVE, SIGN SETS 1 AND 3 BECOME INACTIVE AND ARE ADVANCED TO BECOME SETS 2 AND 4 WITH SIGN LEGENDS TURNED AWAY FROM BOTH DIRECTIONS OF TRAFFIC. WHEN THE RESURFACING OPERATION ADVANCES TO BETWEEN SIGN SET 2 AND 4, SIGN SET 2 AND 4 BECOME ACTIVE (I.E. NEW SIGN SET 2 AND 4), SIGN SET 1 AND 3 ADVANCED IN THE DIRECTION OF THE OPERATION (I.E. NEW SIGN SET 1 AND 3).

GENERAL NOTES:

1. SEE STANDARD PLAN 616.10 FOR DETAILS AND ITEMS NOT SHOWN
2. EXISTING SIGNS SHALL BE COVERED DURING WORKING HOURS ONLY IF IN CONFLICT WITH TRAFFIC CONTROL PLANS.
3. NO DIRECT PAYMENT WILL BE MADE FOR RELOCATING, COVERING, UNCOVERING OR REMOVING SIGNS.
4. CONES ALLOWABLE FOR DAYTIME OPERATIONS ONLY.
5. LOCATE FLASHING ARROW PANEL AT BEGINNING OF TAPER WHEN FEASIBLE, ARROW PANELS ARE ALWAYS LOCATED BEHIND CHANNELIZERS OR CONES.

TEMPORARY TRAFFIC CONTROL SHEET
FLAGGER CONTROL RESURFACING
OR MOVING OPERATION
1 LANE - 2 WAY OPERATION
WITH SIGN SPACING
SHEET 3 OF 7



DATE PREPARED 6/18/2024	
ROUTE N/W	STATE MO
DISTRICT CD	SHEET NO. 9
COUNTY CAMDEN	
JOB NO. JCD0099	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

DATE	DESCRIPTION

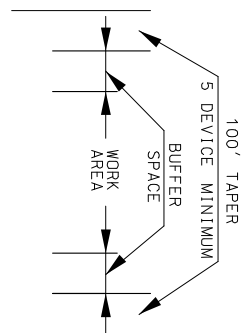
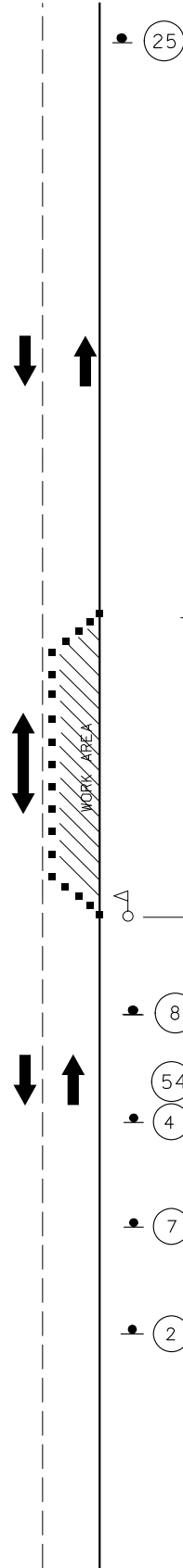
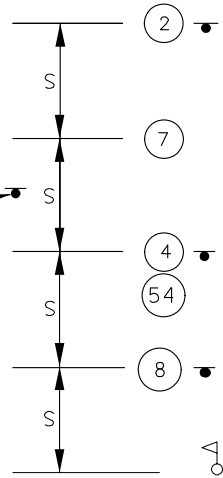
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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

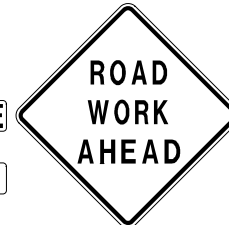


USED WHEN NO WORK ZONE SPEED LIMIT IS ESTABLISHED

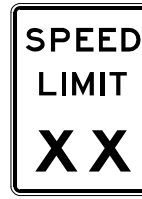
W03-4
11



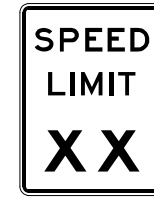
BRIDGE
OR
RAMP
W025-6



W020-1
2



R2-1
4



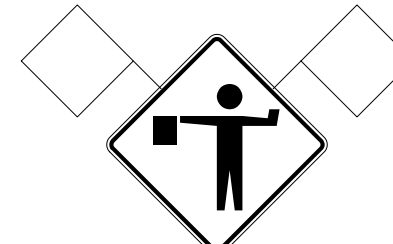
R2-1
NORMAL SPEED
25



W020-4
7



G020-5dP
54



W020-7a
8

NOTES:

SEE TRAFFIC CONTROL SHEET 1 FOR WORK ZONE SPEED LIMIT GUIDELINES.

SEE TRAFFIC CONTROL SHEET X1FOR SIGN SPACING, DEVICE SPACING AND CHANNELIZING TAPER LENGTHS.

AUTOMATED FLAGGER ASSISTANCE DEVICES (AFAD) AND PORTABLE SIGNAL FLAGGING DEVICES (PSFD) MAY BE USED AS AND ALTERNATIVE FLAGGING OPERATION.

IF USED AT NIGHT, THE FLAGGER STATIONS SHALL BE ILLUMINATED WITH AN AVERAGE MAINTAINED INTENSITY OF 0.6 FOOT CANDLES (6.5 LUX).

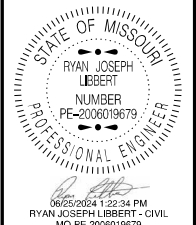


USED WHEN NO WORK ZONE SPEED LIMIT IS ESTABLISHED

W03-4
11

LANE CLOSURE ON TWO-LANE ROAD USING FLAGGERS

TEMPORARY TRAFFIC CONTROL SHEET
LANE CLOSURE ON 2-LANE ROAD
USING FLAGGERS
SHEET 4 OF 7



DATE PREPARED	6/18/2024		
ROUTE	N/W	STATE	MO
DISTRICT	CD	SHEET NO.	10
COUNTY	CAMDEN		
JOB NO.	JCD0099		
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)

SPEED	SIGN SPACING (FT.)	
	NON-DIVIDED HIGHWAYS (S)	DIVIDED HIGHWAYS (S)
0-35	200	200
40-45	350	500
50-55	500	1000
60-70	1000	(SA) - 1000 (SB) - 1500 (SC) - 2640

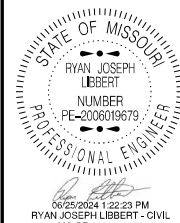
DISTANCE MAY BE ADJUSTED ACCORDING TO FIELD CONDITIONS.

NOTES:
WARNING SIGNS SHALL BE ERECTED AT EACH INTERSECTION WITH ANOTHER STATE HIGHWAY WITHIN THE WORK ZONE.

ADDITIONAL WARNING SIGNS SHALL BE ERECTED AT OTHER INTERSECTIONS WITHIN THE WORK ZONE, AS DIRECTED BY THE ENGINEER.

■ - CHANNELIZERS (AS SPECIFIED)

○ - FLAGGER



DATE PREPARED
6/18/2024

ROUTE STATE
N/W MO

DISTRICT SHEET NO.
CD 11

COUNTY
CAMDEN

JOB NO.
JCD0099

CONTRACT ID.

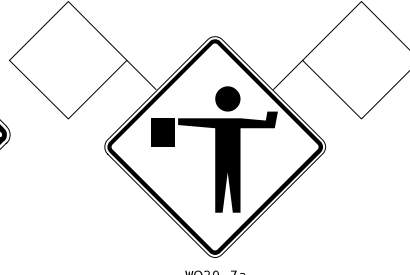
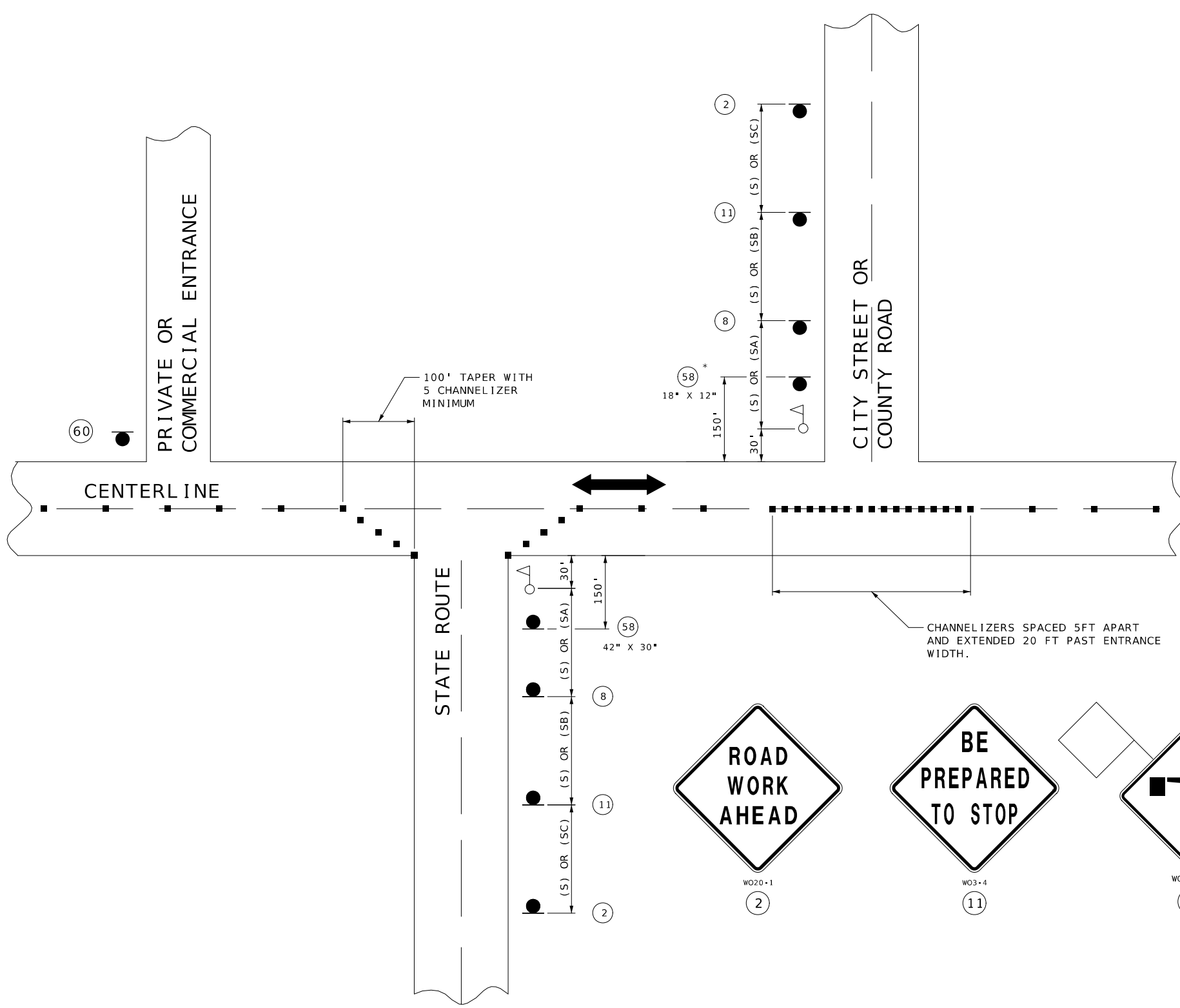
PROJECT NO.

BRIDGE NO.

DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

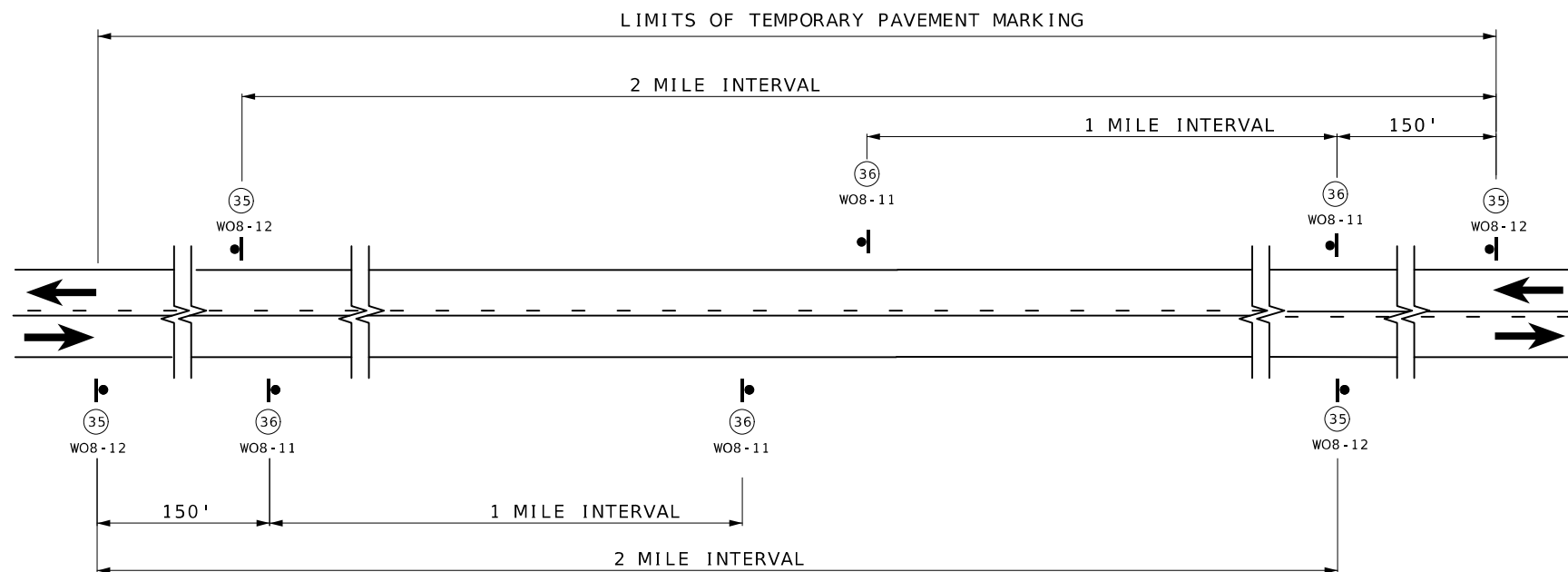
 105 WEST CAPITOL JEFFERSON CITY, MO 65102
 1-888-ASK-MODOT (1-888-275-6636)



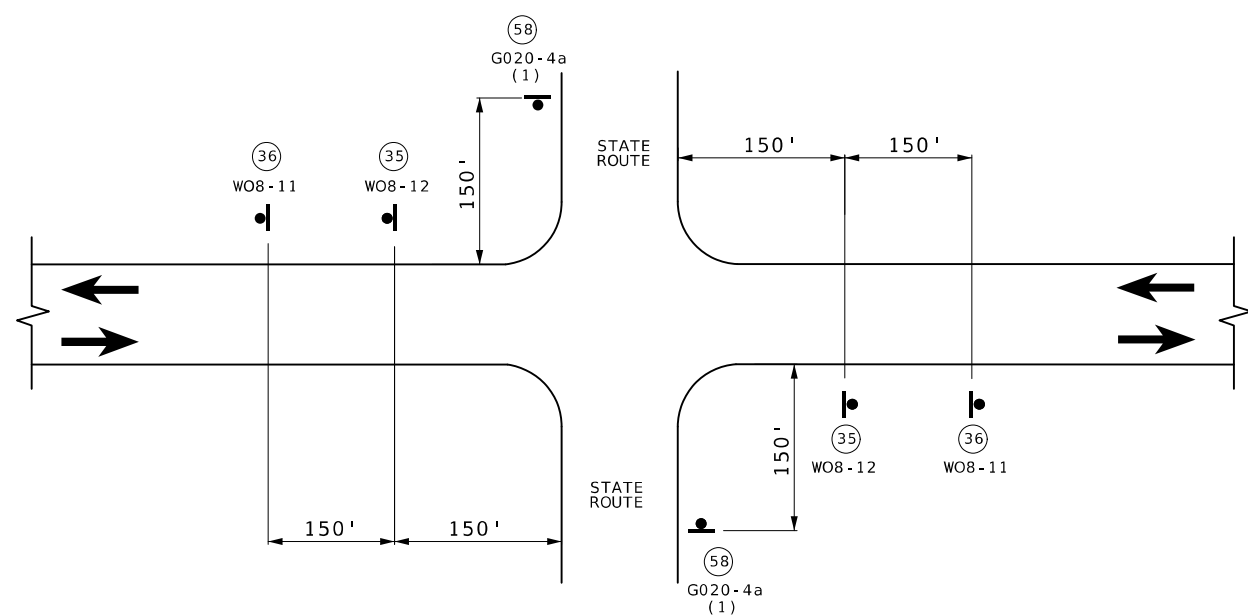
SHALL BE USED ON ALL STATE ROUTES AND MAY BE USED ON ANY NON-STATE ROUTES, AS DETERMINED BY THE ENGINEER.

SHALL ONLY BE USED AT PRIVATE AND COMMERCIAL ENTRANCES. SEE STD PLAN 616.10

* THE SMALLER 18" X 12" SIGN 58 IS USED ON ALL OTHER NON-STATE ROUTES (CITY STREETS, COUNTY ROADS, ETC.).



SIGN SPACING AND TEMPORARY STRIPING FOR MAINLINE



SIGN SPACING AT STATE ROUTE INTERSECTIONS
SHOWING TEMPORARY STRIPING FOR MAINLINE

(1) ADDITIONAL SIDEROADS MAY BE SIGNED AS APPROVED BY THE ENGINEER.



NOTES:

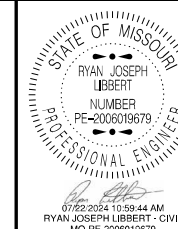
SIGN 35 AND TEMPORARY RAISED PAVEMENT MARKING (SEE STANDARD PLAN 620.10) INSTALLED WHERE CENTERLINE STRIPING HAS BEEN COVERED OR REMOVED. SIGNS ARE TO REMAIN IN PLACE UNTIL THE PERMANENT CENTERLINE PAVEMENT MARKINGS ARE IN PLACE. SIGNS SHALL BE COVERED OR REMOVED WHEN PAVEMENT CENTERLINE MARKING HAS BEEN INSTALLED.

SIGN 35 IS PLACED AT APPROXIMATELY TWO-MILE INTERVALS AND AT STATE ROUTE JUNCTIONS. WHEN THE INSTALLATION AT A JUNCTION IS WITHIN ONE-EIGHTH MILE OF THE NORMAL MAINLINE SIGN 35, THE LATTER MAY BE ELIMINATED.

ALL SIGNS SHALL BE POST MOUNTED AND IN ACCORDANCE WITH STANDARD PLAN 616.10 AND 903.03.

NOT TO SCALE

TEMPORARY TRAFFIC CONTROL SHEET
SIGN SPACING - TEMP. STRIPING
SHEET 6 OF 7



DATE PREPARED
7/22/2024

ROUTE N/W	STATE MO
DISTRICT CD	SHEET NO. 12

COUNTY
CAMDEN

JOB NO.
JCD0099

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION	DATE

DESCRIPTION	DATE

MISSOURI HIGHWAYS AND TRANSPORTATION
COMMISSION

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

NOT TO SCALE

NOTES:

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

PROTECTIVE TRUCKS 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.

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.

FLASHING ARROW PANELS SHALL BE INCIDENTAL TO TRUCK MOUNTED ATTENUATORS, WHEREVER USED. NO ADDITIONAL PAYMENT WILL BE MADE.

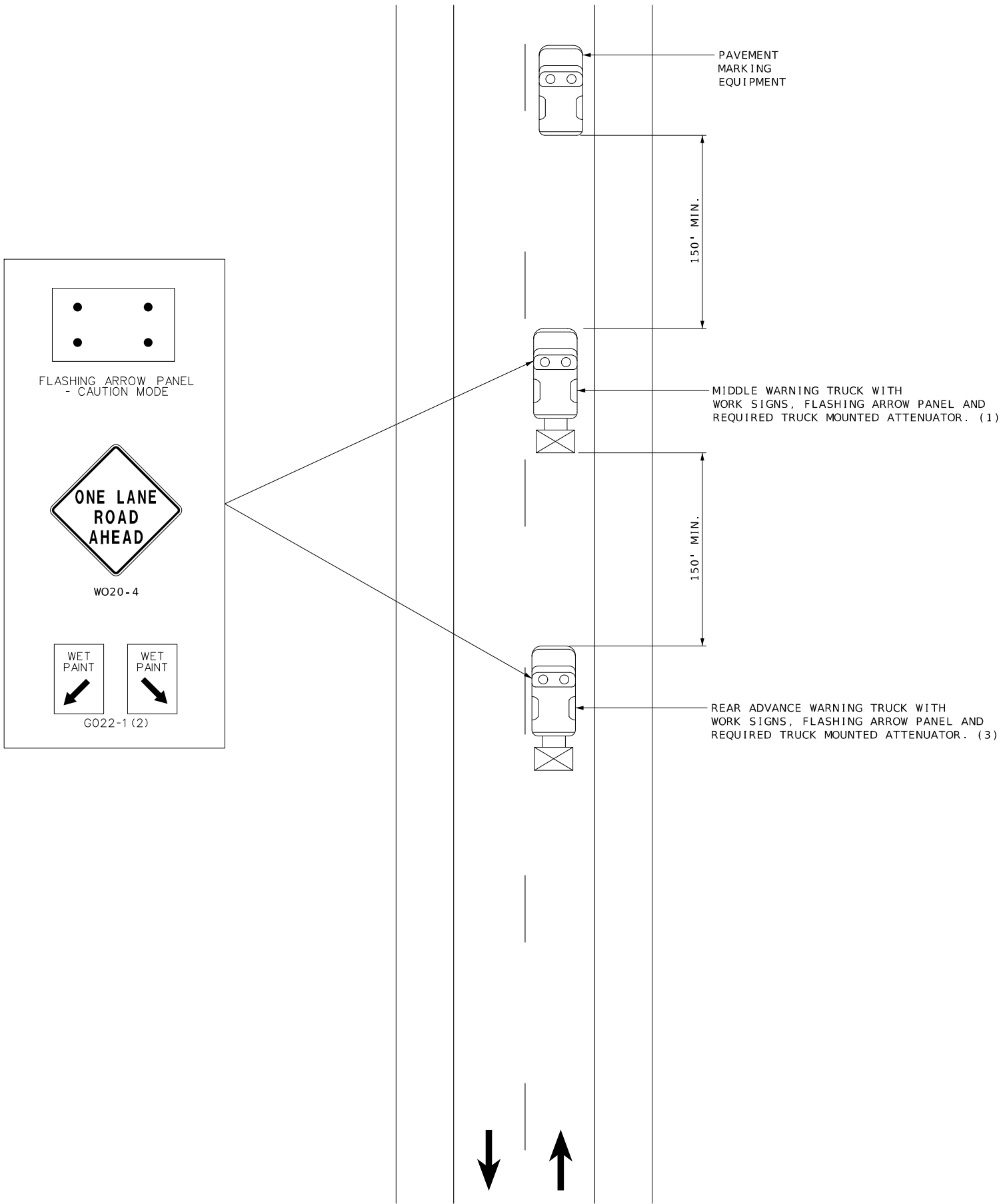
(1) TRUCK IS OPTIONAL ON TWO-LANE UNDIVIDED HIGHWAYS IF SIGNING AND ARROW BOARD ARE MOUNTED ON THE PAVEMENT MARKING EQUIPMENT.

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

(3) REAR WARNING TRUCK IS POSITIONED AT THE NO TRACK POINT OF THE PAVEMENT MARKING MATERIAL, OR VERTICAL OR HORIZONTAL CURVES THAT RESTRICT SIGHT DISTANCE, OR SPACING SHOWN, WHICHEVER IS GREATER.

SEE TRAFFIC CONTROL SHEET 1 FOR WORK ZONE SPEED LIMIT GUIDELINES.

SEE TRAFFIC CONTROL SHEET 1 FOR SIGN SPACING, DEVICE SPACING AND CHANNELIZING TAPER LENGTHS.



STRIPING ON TWO-LANE HIGHWAY

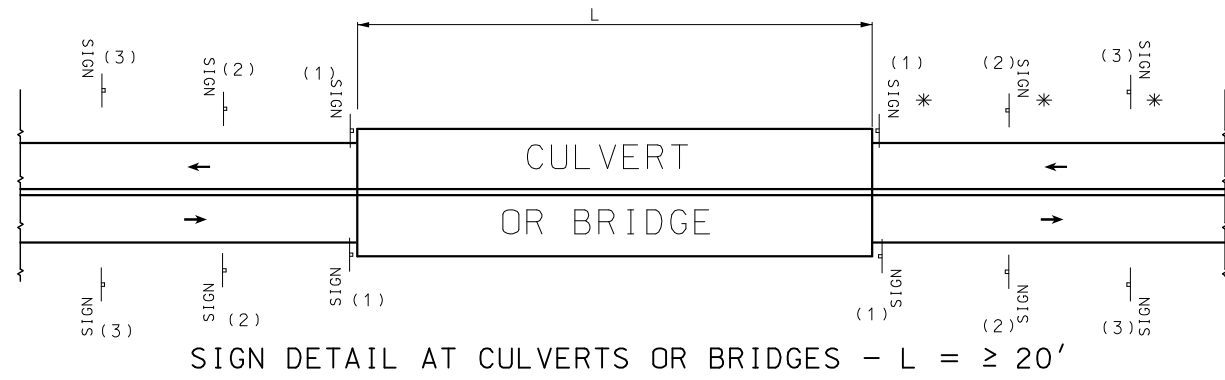
RYAN JOSEPH LIBBERT
PROFESSIONAL ENGINEER
NUMBER PE-2006019679

DATE PREPARED 7/22/2024	
ROUTE N/W	STATE MO
DISTRICT CD	SHEET NO. 13
COUNTY CAMDEN	
JOB NO. JCD0099	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

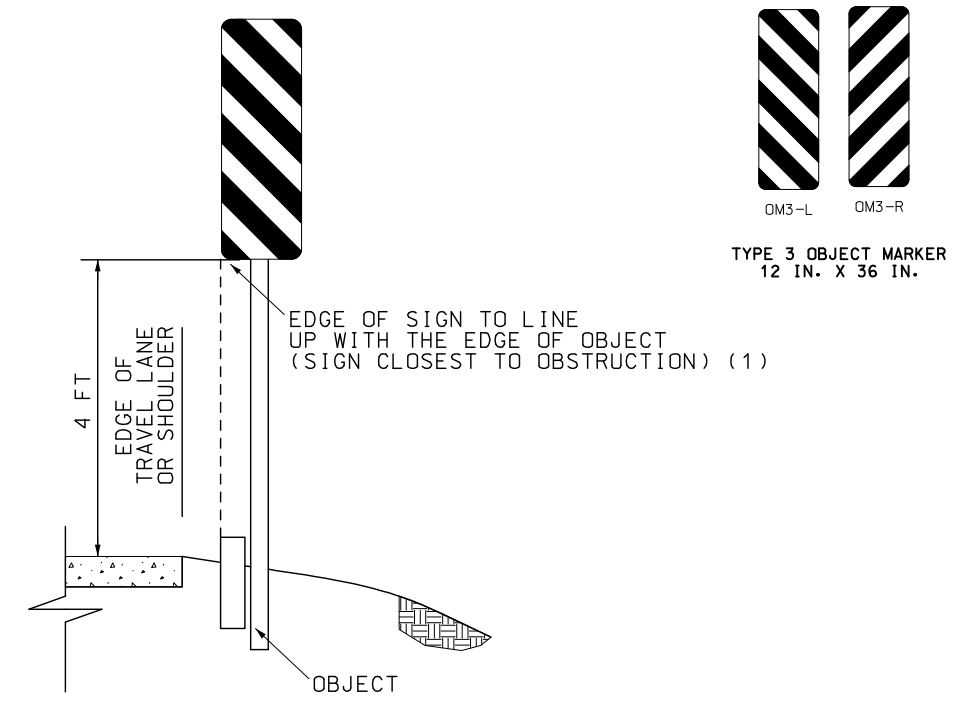
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)



ROUTE N
L.M. 0.818

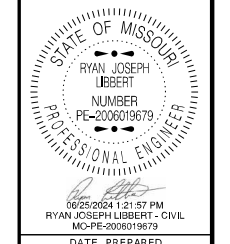
ROUTE W
L.M. 2.349
L.M. 5.148 * REMOVE OTHER OBJECT MARKERS, ONLY REPLACE SIGNS, UIP POSTS

- (1) PLACED AS NEAR THE OBSTRUCTION AS POSSIBLE AND SET TO LINE UP WITH INSIDE EDGE OF OBSTRUCTION.
- (2) PLACED 1.5 FEET OFF THE EDGE OF PAVEMENT AND 20 FEET FROM THE END OF THE OBSTRUCTION.
- (3) PLACED 3.0 FEET OFF THE EDGE OF PAVEMENT AND 40 FEET FROM THE END OF THE OBSTRUCTION.



MOUNTING HEIGHT AND OFFSET
TYPE 3 OBJECT MARKER INSTALLATION

SEE DETAIL FOR OFFSETS OF SIGNS FURTHER AWAY FROM OBSTRUCTION



DATE PREPARED
6/24/2024

ROUTE N/W	STATE MO
DISTRICT CD	SHEET NO. 14
COUNTY CAMDEN	
JOB NO. JCD0099	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

DATE	DESCRIPTION

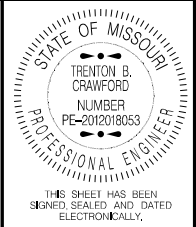
EFFECTIVE 12-01-2017

STANDARD SIGN ASSEMBLIES				SIGN SUMMARY					
SIGN NUMBER OR SET NUMBER	LOG MILE	LOCATION	TYPE		STANDARD SIGN OR SPECIAL SIGN NUMBER	SIGN DETAIL SHEET NO.	NO. EACH	SIZE, TYPE & SQ. FT.	
			OM3-R	OM3-L				SIZE	FLAT SHEET FLUORESCENT SHF * ITEM NO. 9035069A
			SIGN DESC. SIZES & # OF EACH						
S1	0.818	RTE. N LT. & RT.	6	6	OM3-R	STD.	15	1' X 3'	45
S2	2.349	RTE. W LT. & RT.	6	6	OM3-L	STD.	12	1' X 3'	36
S3	5.148	RTE. W LT.	3						
* ORANGE, YELLOW & YELLOW/GREEN								TOTAL	81

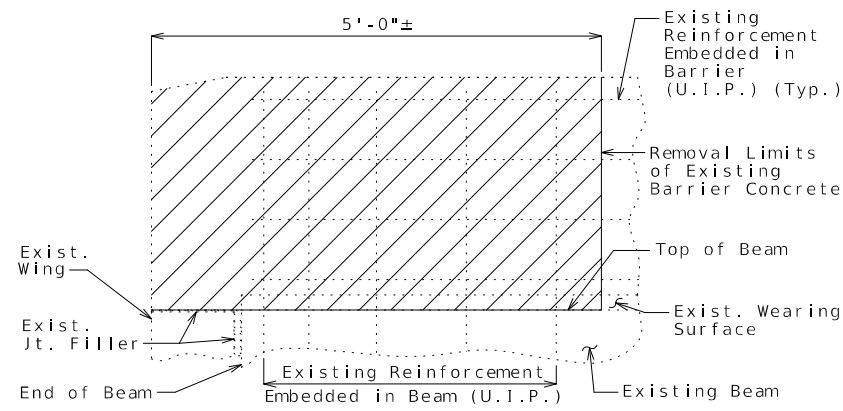
SIGNS						U CHANNEL POST, 3 LB.	REMARKS AND OTHER REQUIRED ITEMS.
SIGN NO. OR SET NO.	SIGN SIZE	LOG MILE	HORZ CLEAR IF NOT STD	LOCATION	POST QTY	POST SIZE 14" EACH ITEM NO. 9031250A	
S1	1x3	0.818		RTE. N LT. & RT.	12	168	
S2	1x3	2.349		RTE. W LT. & RT.	12	168	
SUBTOTAL						336	
TOTAL						336	

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

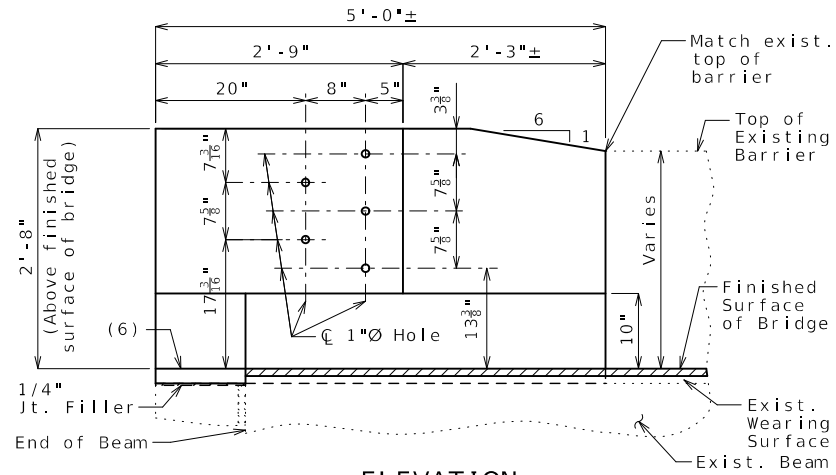
105 WEST CAPITOL JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)



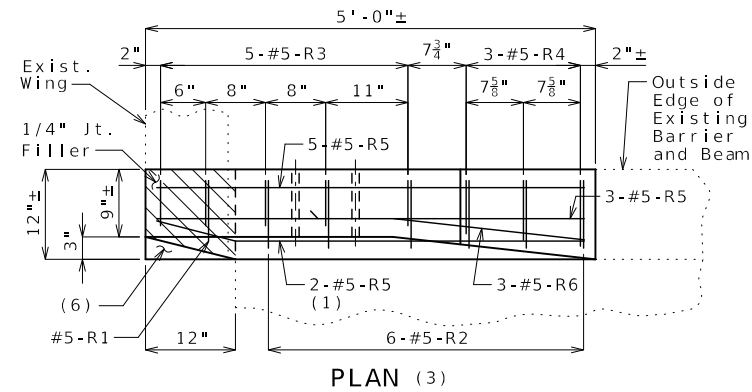
DATE PREPARED 7/9/2024	
ROUTE W	STATE MO
DISTRICT BR	SHEET NO. 2
COUNTY CAMDEN	
JOB NO. JCD0099	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO. B03411	



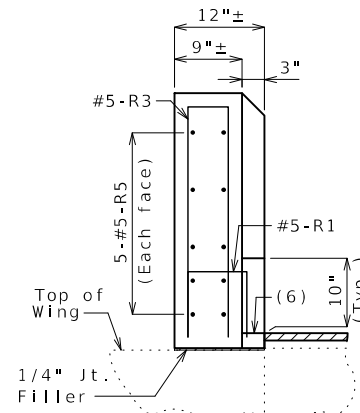
PART ELEVATION SHOWING CONCRETE REMOVAL



ELEVATION

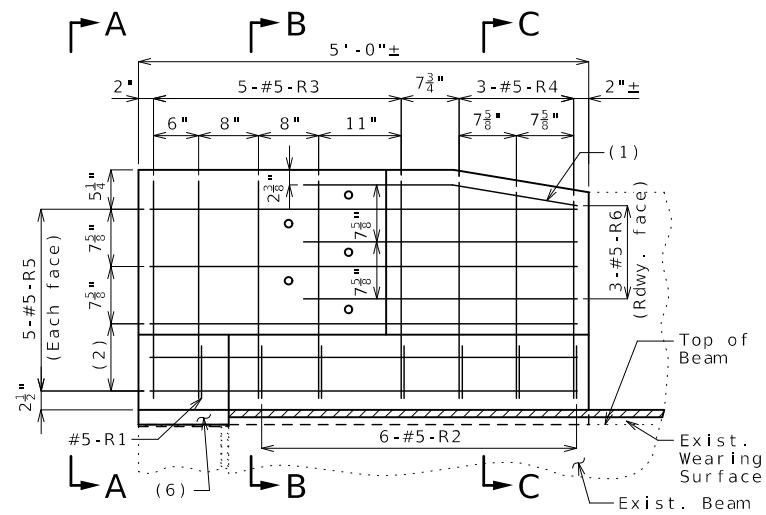


PLAN (3)

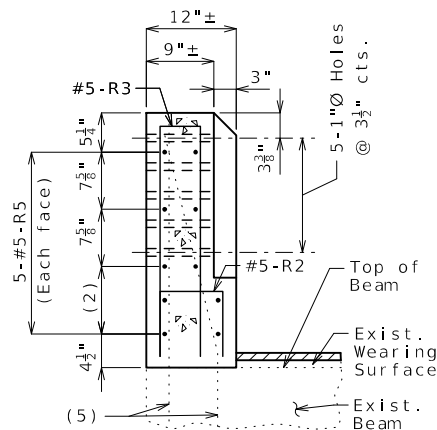


ELEVATION A-A

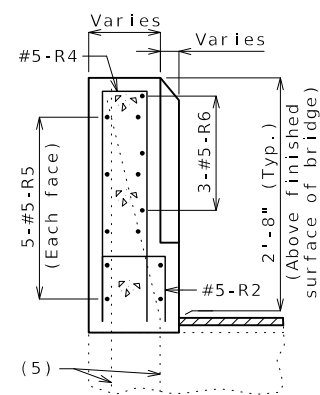
- (1) Bend in field.
- (2) 2 Spa. @ 4 1/2"
- (3) Existing reinforcement not shown for clarity.
- (4) Existing longitudinal reinforcement not shown for clarity.
- (5) Existing reinforcement embedded in beam (U.I.P.) (Bend in field as needed) (Typ.)
- (6) Fill with mortar or concrete.



ELEVATION SHOWING REINFORCEMENT (3)



SECTION B-B (4)



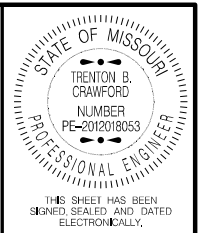
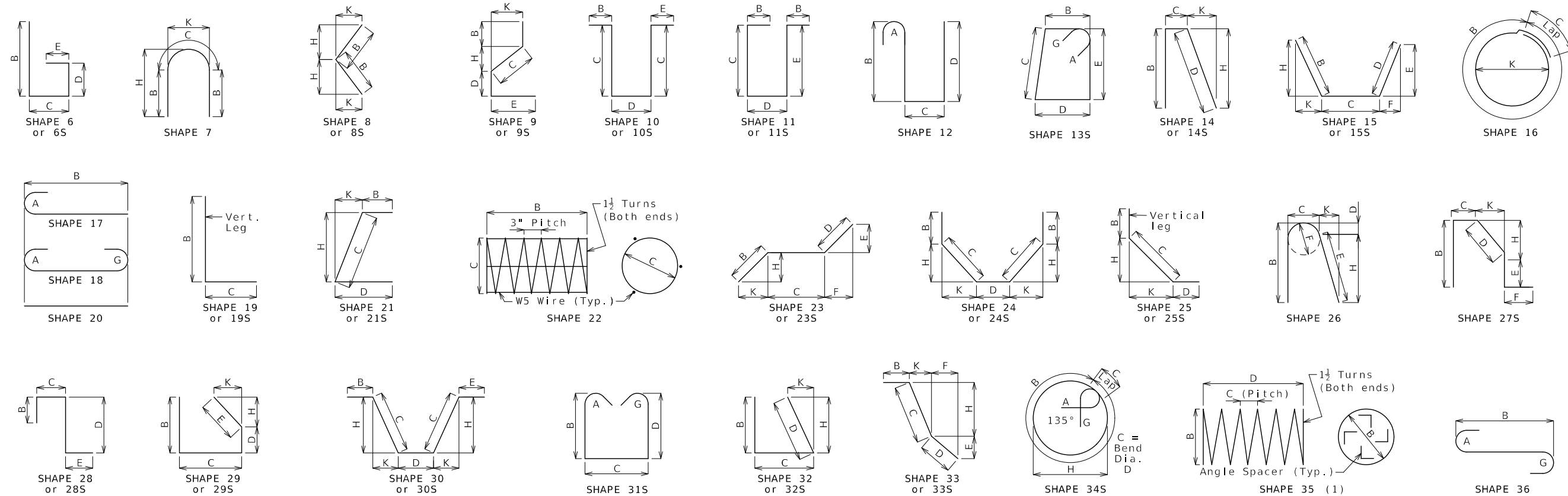
SECTION C-C (4)

BARRIER MODIFICATION FOR GUARDRAIL ATTACHMENT

DESCRIPTION	DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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



DATE PREPARED
7/9/2024

ROUTE
W

STATE
MO

DISTRICT
BR

SHEET NO.
3

COUNTY
CAMDEN

JOB NO.
JCD0099

CONTRACT ID.

PROJECT NO.

BRIDGE NO.
B03411

DATE	DESCRIPTION

Finished Bend Diameters D and Hook Dimensions

Standard Pin Bend Shapes

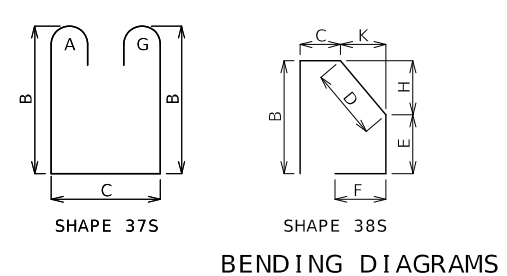
Size	Case	D	A or G		
			90°	180°	J
#4	1	3"	8"	6"	4"
#5	1	3 3/4"	10"	7"	5"
#6	1	4 1/2"	12"	8 1/4"	6"
	2	5 1/4"	14"	9 3/4"	7"
#7	2	6"	16"	11"	8"
	3	7"	15"	11 1/2"	8 3/4"
#8	2	6"	16"	11"	8"
	3	8"	17"	13 1/4"	10"
#9	1	9 1/2"	19 1/2"	15 1/2"	11 3/4"
#10	1	10 3/4"	22"	17 1/2"	13 1/4"
#11	1	12"	24 1/2"	19 1/2"	14 7/8"
#14	1	18 1/4"	31 1/4"	27 1/2"	21 5/8"
#18	1	24"	41 1/2"	36 1/4"	28 1/2"

Stirrup Pin Bend Shapes (S)

Size	Case	D	A or G			H	J
			90°	135°	180°		
#4	2	2"	4 1/2"	4 1/2"	5"	2 7/8"	3"
	3	3"	5"	5 1/4"	6"	3"	4"
#5	2	2 1/2"	5 3/4"	5 3/4"	5 3/4"	3 3/8"	3 3/4"
	3	3 3/4"	6 1/4"	6 1/2"	7"	3 7/8"	5"
#6	1	4 1/2"	12"	7 3/4"	8 1/4"	4 3/8"	6"

6d for #4 & #5, 12d for #6

Applicable for all grades of steel.
Case 1 applies to all reinforcement. Case 2 applies to all reinforcement except for galvanized bars. Case 3 applies to galvanized bars only.



BENDING DIAGRAMS

All dimensions are out to out.

(1) Shall be a deformed or plain spiral bar or wire.

Shapes ending with an S shall be bent in accordance with stirrup pin bend shapes.

Four angle or channel spacers are required for each column spiral. Spacers are to be placed on inside of spirals. Length and weight of column spirals do not include splices or spacers.

Unless otherwise noted, finished bending diameter D is the same for all bends of a shape.

Reinforcing Steel Totals (Pounds)

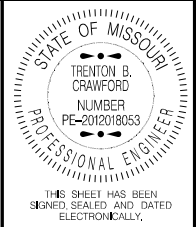
Size	Substructure		Superstructure			Entire Bridge	
	Plain	Epoxy	Slab	Barrier	Slip Form	Plain	Epoxy
W5	0	0	0	0	0	0	0
4	0	0	0	0	0	0	0
5	0	0	0	360	0	0	360
6	0	0	0	0	0	0	0
7	0	0	0	0	0	0	0
8	0	0	0	0	0	0	0
9	0	0	0	0	0	0	0
10	0	0	0	0	0	0	0
11	0	0	0	0	0	0	0
14	0	0	0	0	0	0	0
18	0	0	0	0	0	0	0
By Type	0	0	0	360	0	0	360

All superstructure reinforcing steel shall be epoxy coated unless otherwise specified.

BENDING DIAGRAMS AND REINFORCING STEEL TOTALS

Bill of Reinforcing Steel															
No. Req.	Size/ Mark	Location	Codes			Dimensions							Nom. Length ft in.	Actual Length ft in.	Weight lb
			C	SH	V	B ft in.	C ft in.	D ft in.	E ft in.	F ft in.	H ft in.	K ft in.			
		End Post Mod.													
3	5 R1	MODIFIED END	E	10S		10.38	8.00						2 5	2 2	7
18	5 R2	MODIFIED END	E	10S		9.00	9.00						2 3	2 0	38
15	5 R3	MODIFIED END	E	10S		2 7.00	6.00						5 8	5 5	85
9	5 R4	MODIFIED END	E	10S	3	2 8.13	7.00						6 0	5 9	
		Incr. = 2.000*				2 5.63	8.50						5 8	5 5	53
30	5 R5	MODIFIED END	E	20		4 9.00							4 9	4 9	149
9	5 R6	MODIFIED END	E	15S		11.25	2 1.50			1.25	11.25		3 1	2 11	28

Bill of Reinforcing Steel															
No. Req.	Size/ Mark	Location	Codes			Dimensions							Nom. Length ft in.	Actual Length ft in.	Weight lb
			C	SH	V	B ft in.	C ft in.	D ft in.	E ft in.	F ft in.	H ft in.	K ft in.			



DATE PREPARED
7/9/2024

ROUTE STATE
W MO

DISTRICT SHEET NO.
BR 4

COUNTY
CAMDEN

JOB NO.
JCD0099

CONTRACT ID.

PROJECT NO.

BRIDGE NO.
B03411

DATE	DESCRIPTION

Nominal lengths are based on out to out dimensions shown in bending diagrams and are listed to the nearest inch for fabricator's use. Actual lengths are measured along centerline bar to the nearest inch. Weights are based on actual lengths.

For bending diagrams and steel reinforcing totals, see Sheet No. 3.

Detailed May 2024
Checked July 2024

All bars shall be Grade 60.

Codes: C = Required coatings, where E = Epoxy Coated and G = Galvanized.

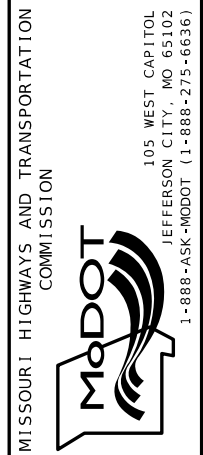
SH = Required shape, see bending diagrams.

V = Sets of varied bars and number of bars of each length. Bar dimensions vary in equal increments between dimensions shown on this line and the following line and the actual length dimension shown on this line and the following line vary by the specified increment.

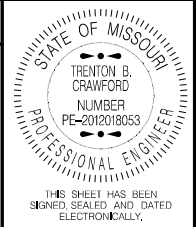
BILL OF REINFORCING STEEL

Note: This drawing is not to scale. Follow dimensions.

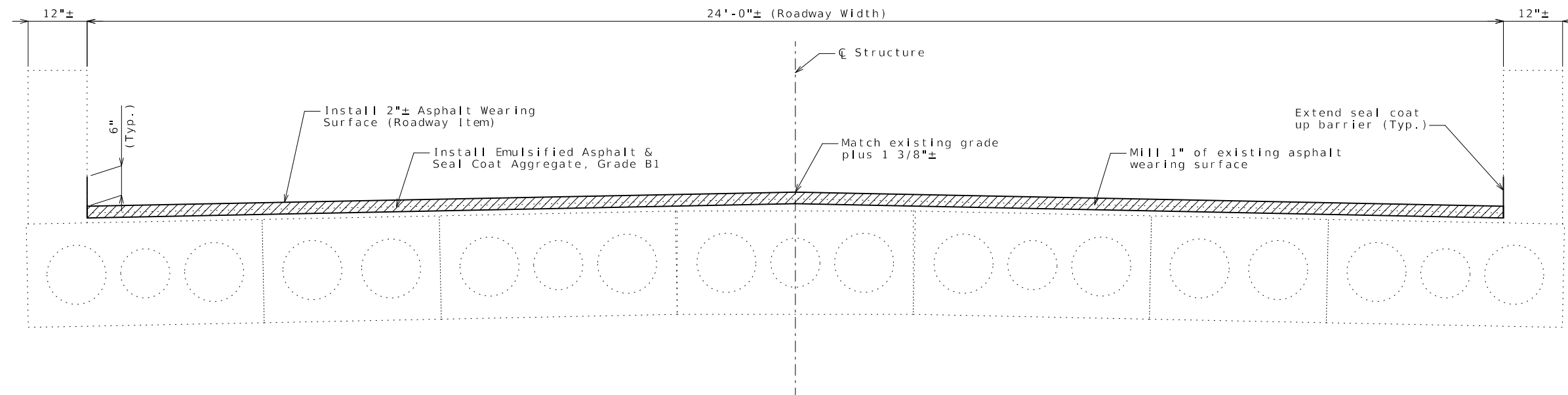
Sheet No. 4 of 4



U.I.P. & REHABILITATE EXISTING (75',35') SIMPLE PRESTRESSED CONCRETE ADJACENT VOIDED SLAB BEAM SPANS (SKEW: 10° R.A.)



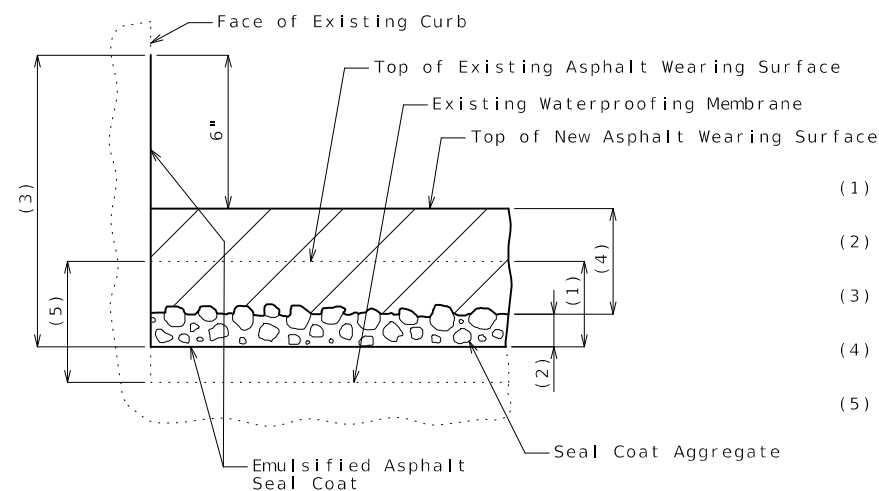
DATE PREPARED 7/9/2024	
ROUTE W	STATE MO
DISTRICT BR	SHEET NO. 1
COUNTY CAMDEN	
JOB NO. JCD0099	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO. B03431	



TYPICAL SECTION THRU EXISTING DECK

General Notes:

- Design Specifications:**
2002 AASHTO LFD (17th Ed.) Standard Specifications
Bridge Deck Rating = 9
- Design Unit Stresses:**
Class B-1 Concrete $f'c = 4,000$ psi
Reinforcing Steel (Grade 60) $fy = 60,000$ psi
- Reinforcing Steel:**
Minimum clearance to reinforcing steel shall be 1 1/2", unless otherwise shown.
- Traffic Handling:**
Traffic to be maintained on structure during construction. See roadway plans for traffic control.
- Miscellaneous:**
All exposed edges of barrier shall have either a 1/2-inch radius or a 3/8-inch bevel, unless otherwise shown.
Outline of existing work is indicated by light dashed lines. Heavy lines indicate new work.
All reinforcement in barrier end modification shall be epoxy coated.
Bars bonded in existing concrete not removed shall be cleanly stripped and embedded into new concrete where possible. If length is available, existing bars shall extend into new concrete at least 40 diameters for plain bars and 30 diameters for deformed bars, unless otherwise noted.
The area exposed by the removal of concrete and not covered with new concrete shall be coated with a qualified special mortar in accordance with Sec 704.
Cost of removing existing barrier concrete, and cost of furnishing and installing new concrete, new reinforcing steel, and any other work incidental to the barrier end modification, complete in place, will be considered completely covered by the contract unit price for Barrier End Modification.



DETAIL A

- (1) Remove 1"± of existing asphalt wearing surface
- (2) 3/8" Emulsified Asphalt Seal Coat with Seal Coat Aggregate, Grade B1
- (3) Extend Emulsified Asphalt, Seal Coat up the curb face.
- (4) 2" minimum Asphalt Wearing Surface (Roadway Item)
- (5) 2" Existing Asphalt Wearing Surface

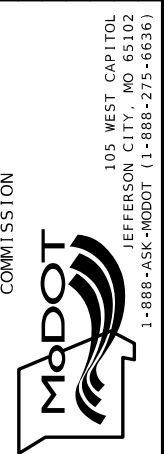
Estimated Quantities		
Item		Total
Removal of Asphalt Wearing Surface	sq. foot	2643
Emulsified Asphalt, Seal Coat	gallon	125
Seal Coat Aggregate, Grade B1	sq. yard	294
Barrier End Modification	each	4

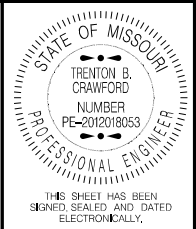
REPAIRS TO BRIDGE:
ROUTE W OVER WATSON BRANCH
ROUTE W FROM ROUTE COUNTY ROAD TO ROUTE 54
ABOUT 3.6 MILES WEST OF ROUTE 54
BEGINNING STATION 99+94.39± (MATCH EXISTING)

DESCRIPTION

DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION





DATE PREPARED
7/9/2024

ROUTE	STATE
W	MO
DISTRICT	SHEET NO.
BR	2

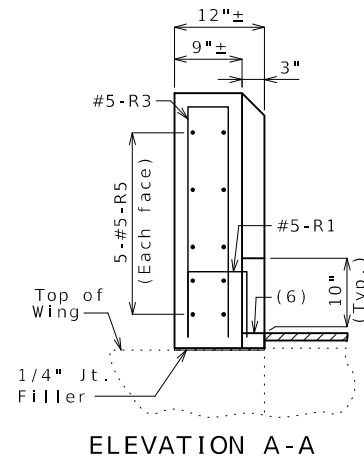
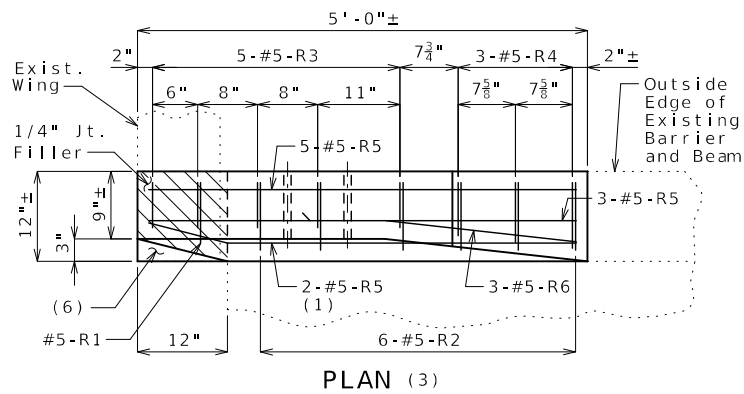
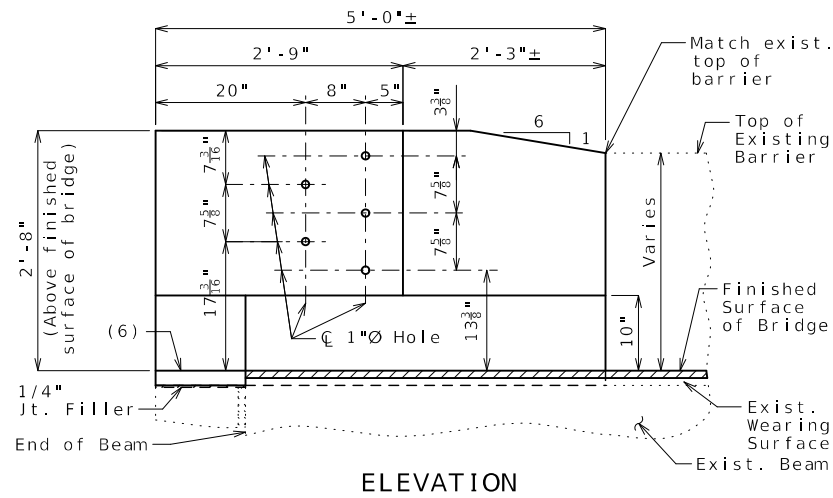
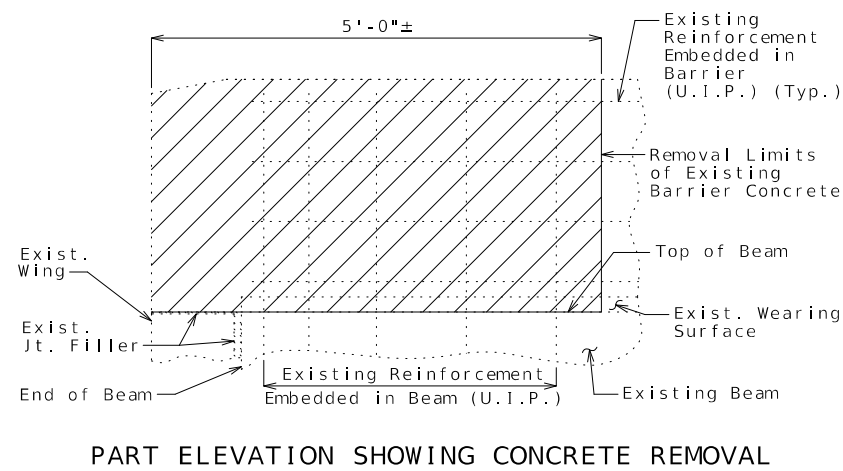
COUNTY
CAMDEN

JOB NO.
JCD0099

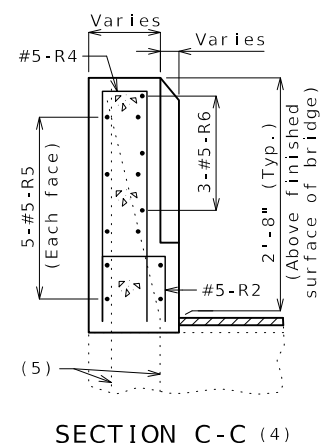
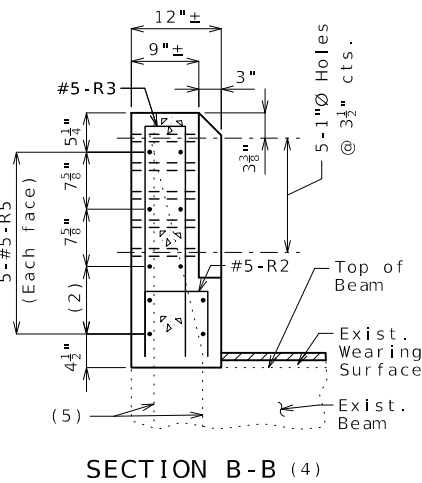
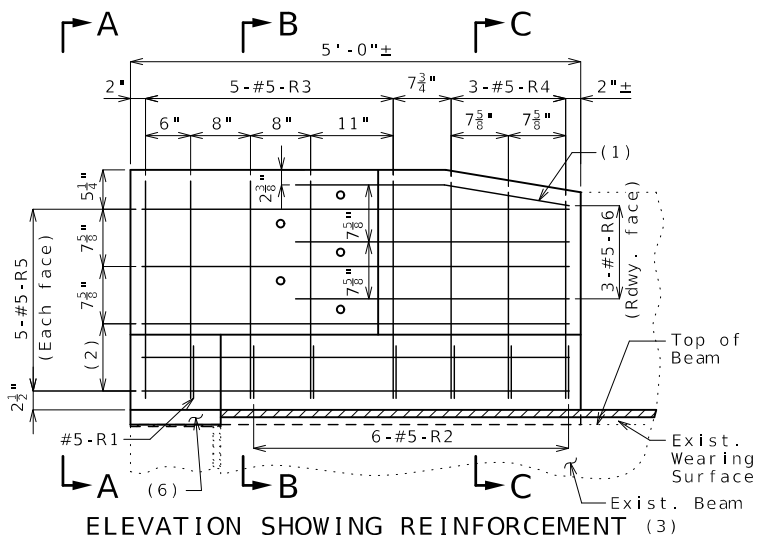
CONTRACT ID.

PROJECT NO.

BRIDGE NO.
B03431



- (1) Bend in field.
- (2) 2 Spa. @ 4 1/2"
- (3) Existing reinforcement not shown for clarity.
- (4) Existing longitudinal reinforcement not shown for clarity.
- (5) Existing reinforcement embedded in beam (U.I.P.) (Bend in field as needed) (Typ.)
- (6) Fill with mortar or concrete.



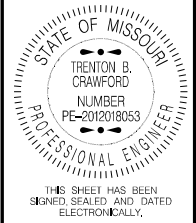
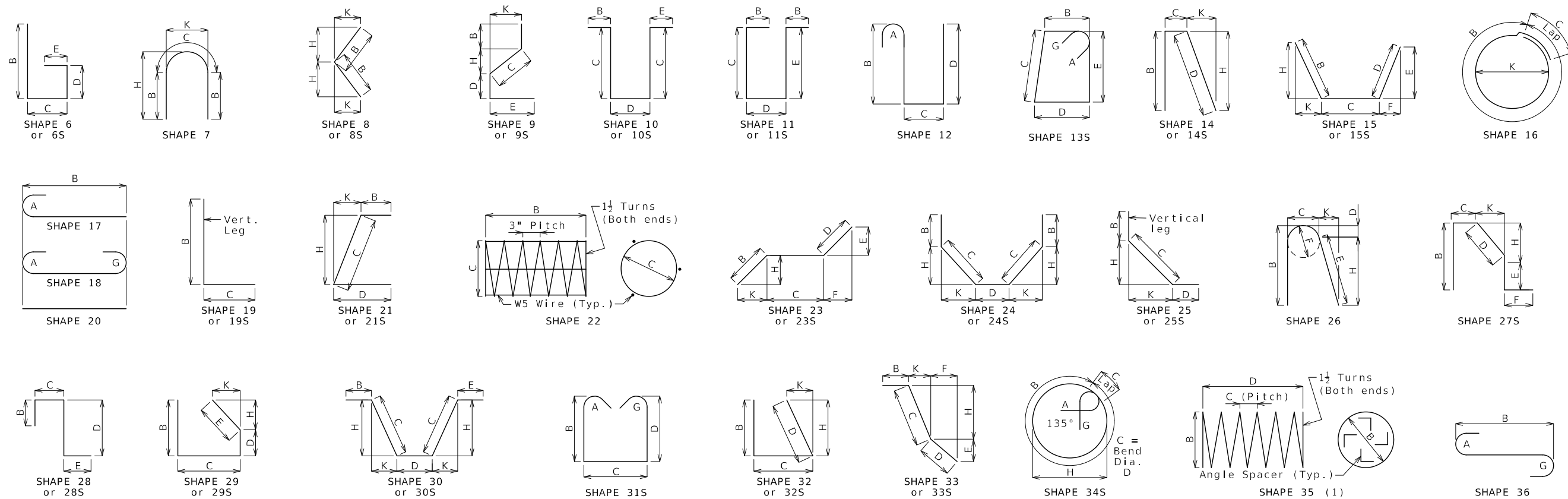
BARRIER MODIFICATION FOR GUARDRAIL ATTACHMENT

DESCRIPTION	DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

MoDOT

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



DATE PREPARED 7/9/2024	
ROUTE W	STATE MO
DISTRICT BR	SHEET NO. 3
COUNTY CAMDEN	
JOB NO. JCD0099	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO. B03431	

DESCRIPTION	DATE

Finished Bend Diameters D and Hook Dimensions

Standard Pin Bend Shapes

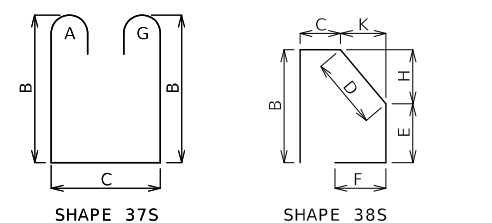
Size	Case	D	A or G		J
			90°	180°	180°
#4	1	3"	8"	6"	4"
#5	1	3 3/4"	10"	7"	5"
#6	1	4 1/2"	12"	8 1/4"	6"
	2	5 1/4"	14"	9 3/4"	7"
#7	2	6"	15"	11 1/2"	8 3/4"
	3	7"	16"	11"	8"
#8	2	8"	17"	13 1/4"	10"
	3	9 1/2"	19 1/2"	15 1/2"	11 3/4"
#9	1	10 3/4"	22"	17 1/2"	13 1/4"
#10	1	12"	24 1/2"	19 1/2"	14 7/8"
#14	1	18 1/4"	31 1/4"	27 1/2"	21 5/8"
#18	1	24"	41 1/2"	36 1/4"	28 1/2"

Stirrup Pin Bend Shapes (S)

Size	Case	D	A or G		H	J	
			90°	135°	180°	135°	180°
#4	2	2"	4 1/2"	4 1/2"	5"	2 5/8"	3"
	3	3"	5"	5 1/4"	6"	3"	4"
#5	2	2 1/2"	5 3/4"	5 3/4"	5 3/4"	3 3/8"	3 3/4"
	3	3 3/4"	6 1/4"	6 1/2"	7"	3 5/8"	5"
#6	1	4 1/2"	12"	7 3/4"	8 1/4"	4 5/8"	6"

6d for #4 & #5, 12d for #6

Applicable for all grades of steel.
Case 1 applies to all reinforcement. Case 2 applies to all reinforcement except for galvanized bars. Case 3 applies to galvanized bars only.



BENDING DIAGRAMS

All dimensions are out to out. (1) Shall be a deformed or plain spiral bar or wire.

Shapes ending with an S shall be bent in accordance with stirrup pin bend shapes.

Unless otherwise noted, finished bending diameter D is the same for all bends of a shape.

Four angle or channel spacers are required for each column spiral. Spacers are to be placed on inside of spirals. Length and weight of column spirals do not include splices or spacers.

Reinforcing Steel Totals (Pounds)

Size	Substructure		Superstructure			Entire Bridge	
	Plain	Epoxy	Slab	Barrier	Slip Form	Plain	Epoxy
W5	0	0	0	0	0	0	0
4	0	0	0	0	0	0	0
5	0	0	0	477	0	0	477
6	0	0	0	0	0	0	0
7	0	0	0	0	0	0	0
8	0	0	0	0	0	0	0
9	0	0	0	0	0	0	0
10	0	0	0	0	0	0	0
11	0	0	0	0	0	0	0
14	0	0	0	0	0	0	0
18	0	0	0	0	0	0	0
By Type	0	0	0	477	0	0	477

All superstructure reinforcing steel shall be epoxy coated unless otherwise specified.

BENDING DIAGRAMS AND REINFORCING STEEL TOTALS

Bill of Reinforcing Steel														
No. Req.	Size/Mark	Location	Dimensions								Nom. Length ft in.	Actual Length ft in.	Weight lb	
			Codes C SH V	B ft in.	C ft in.	D ft in.	E ft in.	F ft in.	H ft in.	K ft in.				
		End Post Mod.												
4	5 R1	MODIFIED END	E 10S			10.38		8.00				2 5	2 2	9
24	5 R2	MODIFIED END	E 10S			9.00		9.00				2 3	2 0	50
20	5 R3	MODIFIED END	E 10S			2 7.00		6.00				5 8	5 5	113
12	5 R4	MODIFIED END	E 10S 4			2 8.13		7.00				6 0	5 9	
		Incr. = 2.000"				2 5.63		8.50				5 8	5 5	70
40	5 R5	MODIFIED END	E 20			4 9.00						4 9	4 9	198
12	5 R6	MODIFIED END	E 15S			11.25		2 1.50				3 1	2 11	37

Bill of Reinforcing Steel														
No. Req.	Size/Mark	Location	Dimensions								Nom. Length ft in.	Actual Length ft in.	Weight lb	
			Codes C SH V	B ft in.	C ft in.	D ft in.	E ft in.	F ft in.	H ft in.	K ft in.				

Nominal lengths are based on out to out dimensions shown in bending diagrams and are listed to the nearest inch for fabricator's use. Actual lengths are measured along centerline bar to the nearest inch. Weights are based on actual lengths.

All bars shall be Grade 60.

Codes: C = Required coatings, where E = Epoxy Coated and G = Galvanized.

SH = Required shape, see bending diagrams.

V = Sets of varied bars and number of bars of each length. Bar dimensions vary in equal increments between dimensions shown on this line and the following line and the actual length dimension shown on this line and the following line vary by the specified increment.

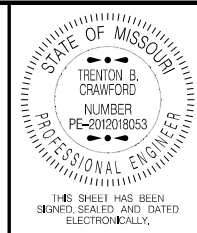
For bending diagrams and steel reinforcing totals, see Sheet No. 3.

BILL OF REINFORCING STEEL

Detailed May 2024
Checked July 2024

Note: This drawing is not to scale. Follow dimensions.

Sheet No. 4 of 4



DATE PREPARED
7/9/2024

ROUTE W STATE MO

DISTRICT BR SHEET NO. 4

COUNTY CAMDEN

JOB NO. JCD0099

CONTRACT ID.

PROJECT NO.

BRIDGE NO. B03431

DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL
JEFFERSON CITY, MO 65102
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