

DESIGN DESIGNATION

A.A.D.T. - 2026 = 6166
A.A.D.T. - 2046 = 8145
D.H.V. = 7.5%
T = 10.0%
V = 60 M.P.H.
D = 50.4% N / 49.6% S
FUNCTIONAL CLASSIFICATION - MINOR ARTERIAL

NORMAL RIGHT-OF-WAY

CONVENTIONAL SYMBOLS
(USED IN PLANS)

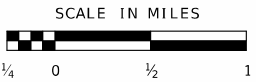
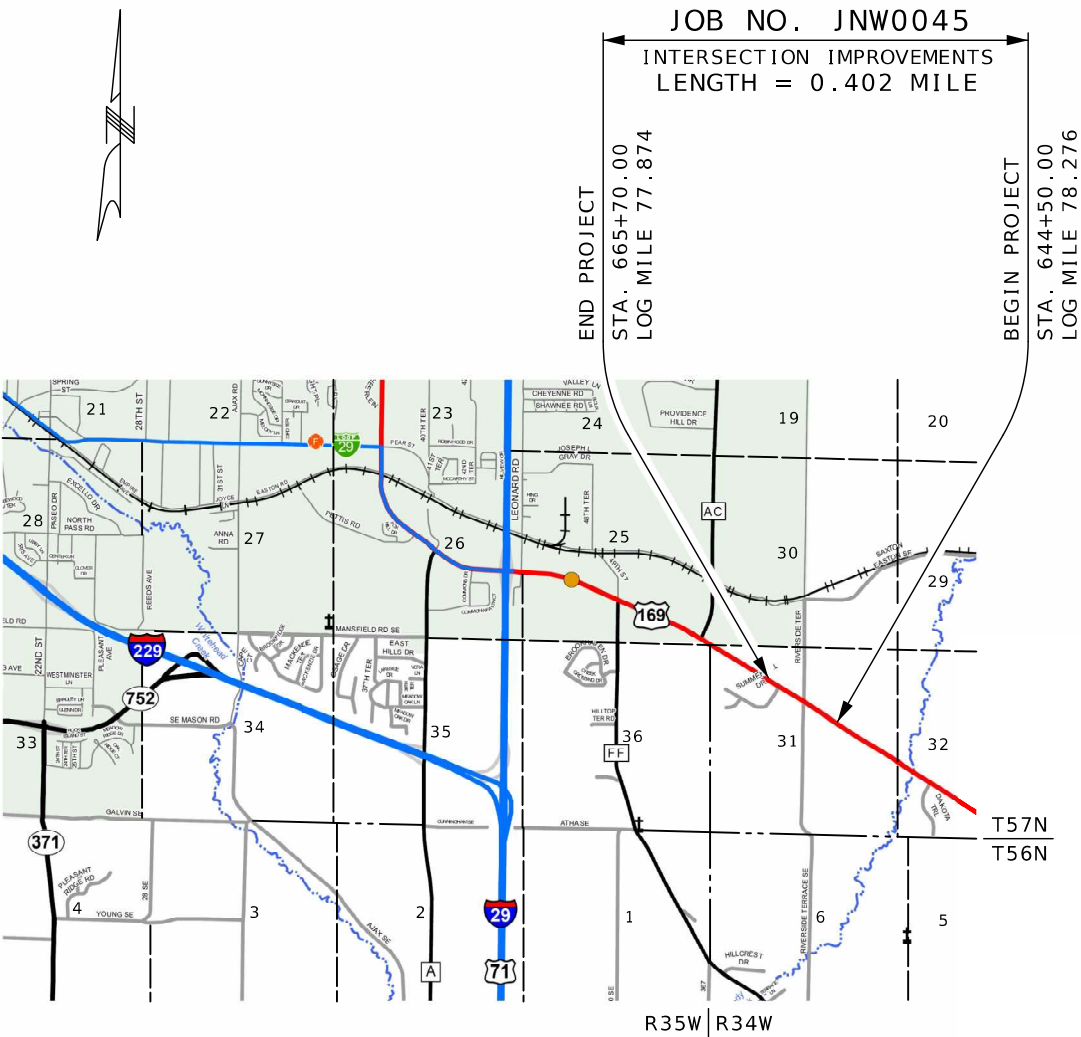
	EXISTING	NEW
BUILDINGS AND STRUCTURES		
GUARD RAIL		
GUARD CABLE		
CONCRETE RIGHT-OF-WAY MARKER		
STEEL RIGHT-OF-WAY MARKER		
LOCATION SURVEY MARKER		
UTILITIES		
FIBER OPTICS	-FO-	-FO-
OVERHEAD CABLE TV	-OTV-	-OTV-
UNDERGROUND CABLE TV	-UTV-	-UTV-
OVERHEAD TELEPHONE	-OT-	-OT-
UNDERGROUND TELEPHONE	-UT-	-UT-
OVERHEAD POWER	-OE-	-OE-
UNDERGROUND POWER	-UE-	-UE-
SANITARY SEWER	-S-	-S-
STORM SEWER	-SS-	-SS-
GAS	-G-	-G-
WATER	-W-	-W-
MANHOLE		
FIRE HYDRANT		
WATER VALVE		
WATER METER		
DROP INLET		
DITCH BLOCK		
GROUND MOUNTED SIGN		
LIGHT POLE		
H-FRAME POWER POLE		
TELEPHONE PEDESTAL		
FENCE		
CHAIN LINK		
WOVEN WIRE		
GATE POST		
BENCHMARK		

NOTE: DASHED OR OPEN SYMBOLS INDICATE EXISTING FEATURES

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
PLANS FOR PROPOSED
STATE HIGHWAY
BUCHANAN COUNTY



KEY MAP
LOCATION OF BUCHANAN 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) (4 SHEETS)	2
QUANTITIES (QU) (5 SHEETS)	3
PLAN-PROFILE (PP)	4-12
REFERENCE POINTS (RP)	13
COORDINATE POINTS (CP)	14
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EROSION CONTROL SHEETS (EC)	25-28
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CROSS SECTIONS (XS)	1-45



DATE PREPARED	9/3/2025
ROUTE	169
STATE	MO
DISTRICT	NW
SHEET NO.	1
COUNTY	BUCHANAN
JOB NO.	JNW0045
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

DESCRIPTION	DATE

LENGTH OF PROJECT

BEGINNING OF PROJECT	STA. 644+50.00
END OF PROJECT	STA. 665+70.00
APPARENT LENGTH	2120.00 FEET
EQUATIONS AND EXCEPTIONS:	NONE

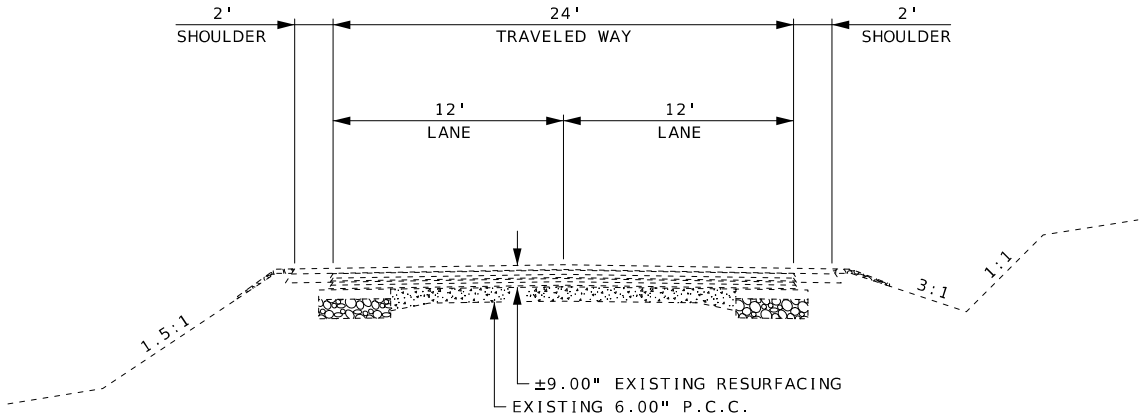
TOTAL CORRECTIONS	0.00 FEET
NET LENGTH OF PROJECT	2120.00 FEET
STATE LENGTH	0.402 MILE

FOR INFORMATION ONLY ESTIMATED DISTURBED ACRES	5 ACRES
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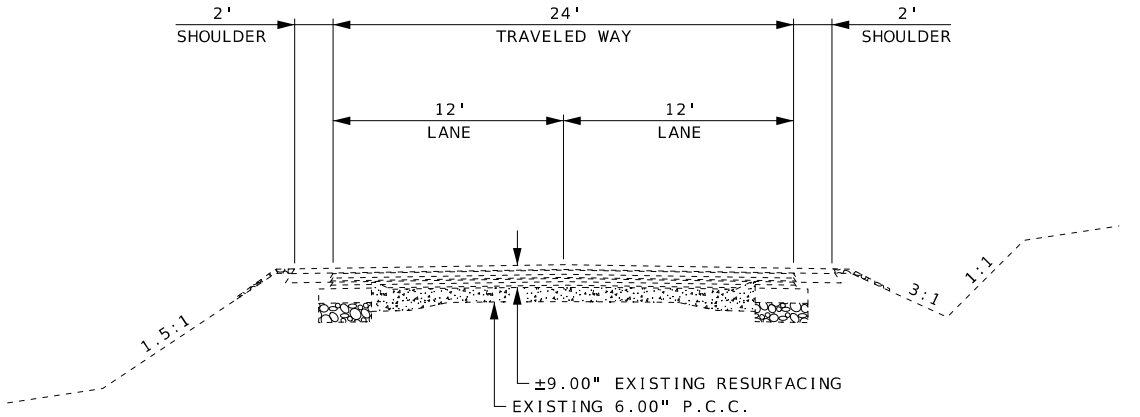


PAVEMENT HISTORY STA. 644+50.00 TO STA. 651+00.00					
YEAR	PROJECT	TRAVELED WAY		SHOULDERS	
		TREATMENT	WIDTH	TREATMENT	WIDTH
1926	FAP-251C	6.00" P.C.C.	18'		
1955	SEC. 11(1)	8.00" STABILIZED AGGR. 4.00" A.C. 0.50" A.C. WEDGE COURSE 1.50" TYPE B A.C. 1.25" TYPE C A.C.	3'-9" (EACH SIDE) 3'-9" (EACH SIDE) 24' 24' 24'		
1978	1-P-169-31	0.50" TYPE C LEVELING 1.25" TYPE C A.C.	24' 24'		
1999	J1L9908A	1.75" TYPE I-C A.C.	24'		
2008	J1P0965	TYPE II MICROSURFACE	24'		
2013	J1P2215	1.75" BP-1	24'	4.00" BITUMINOUS BASE 1.75" BP-1 VAR. TYPE 1 AGGR.	2' (EACH SIDE) 2' (EACH SIDE) REMAINING SHLDR. WIDTH
2020	J1S3195B	SCRUB SEAL	24'	SCRUB SEAL	2' (EACH SIDE)
2024	JNW0016	2.00" COLDMILLING 2.00" BP-1	24' 24'	2.00" COLDMILLING 2.00" BP-1	2' (EACH SIDE) 2' (EACH SIDE)

PAVEMENT HISTORY STA. 651+00.00 TO STA. 665+70.00					
YEAR	PROJECT	TRAVELED WAY		SHOULDERS	
		TREATMENT	WIDTH	TREATMENT	WIDTH
1930	1-31	6.00" P.C.C.	20'		
1955	SEC. 11(1)	8.00" STABILIZED AGGR. 4.00" A.C. 0.50" A.C. WEDGE COURSE 1.50" TYPE B A.C. 1.25" TYPE C A.C.	2'-9" (EACH SIDE) 2'-9" (EACH SIDE) 24' 24' 24'		
1978	1-P-169-31	0.50" TYPE C LEVELING 1.25" TYPE C A.C.	24' 24'		
1999	J1L9908A	1.75" TYPE I-C A.C.	24'		
2008	J1P0965	TYPE II MICROSURFACE	24'		
2013	J1P2215	1.75" BP-1	24'	4.00" BITUMINOUS BASE 1.75" BP-1 VAR. TYPE 1 AGGR.	2' (EACH SIDE) 2' (EACH SIDE) REMAINING SHLDR. WIDTH
2020	J1S3195B	SCRUB SEAL	24'	SCRUB SEAL	2' (EACH SIDE)
2024	JNW0016	2.00" COLDMILLING 2.00" BP-1	24' 24'	2.00" COLDMILLING 2.00" BP-1	2' (EACH SIDE) 2' (EACH SIDE)



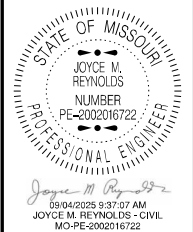
SECTION ON TANGENT
EXISTING TYPICAL SECTION ROUTE 169
STA. 644+50.00 TO STA. 651+00.00



SECTION ON TANGENT
EXISTING TYPICAL SECTION ROUTE 169
STA. 651+00.00 TO STA. 665+70.00

NOT TO SCALE

TYPICAL SECTIONS
SHEET 1 OF 4



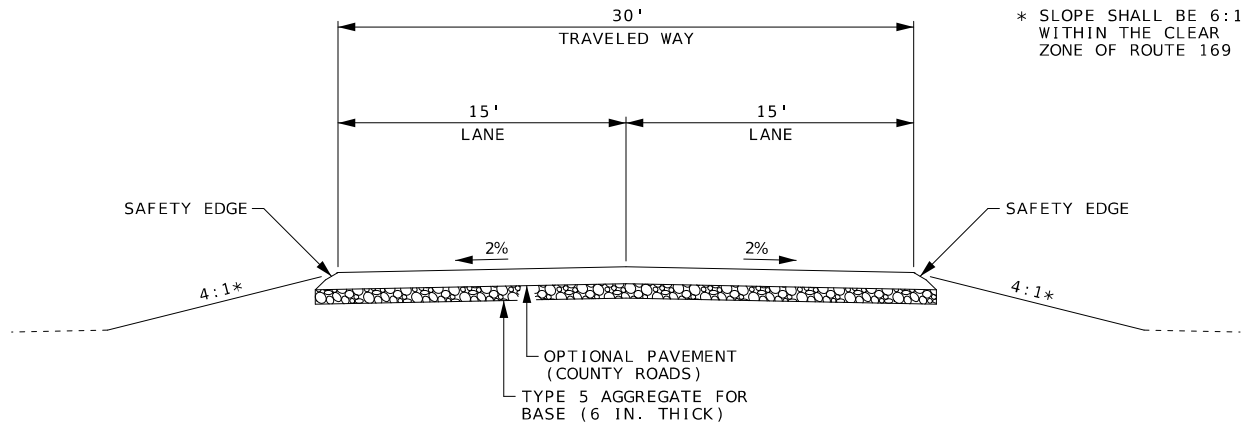
DATE PREPARED 9/3/2025	
ROUTE 169	STATE MO
DISTRICT NW	SHEET NO. 2
COUNTY BUCHANAN	
JOB NO. JNW0045	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

DESCRIPTION	DATE

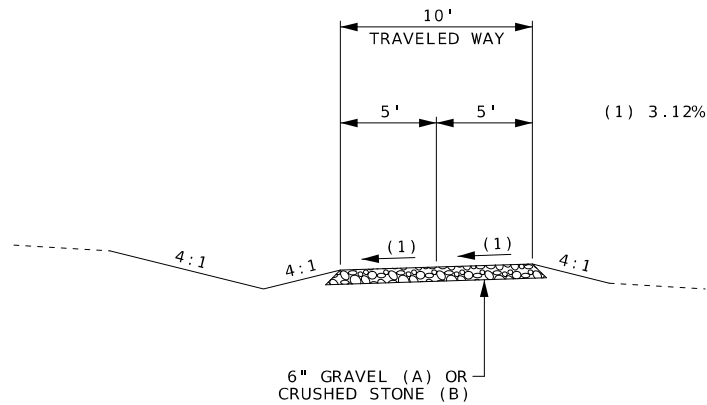
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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

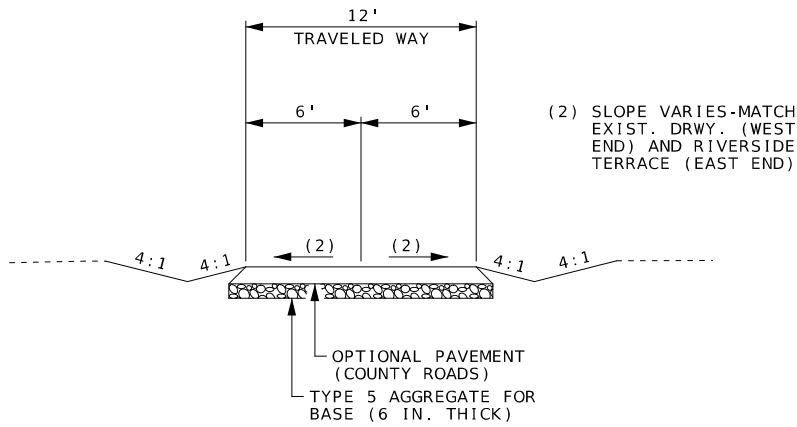
NOTE: SEE TYPICAL SECTION SHEET 4 OF 4
FOR DETAILS OF OPTIONAL PAVEMENT



SECTION ON TANGENT
PROPOSED TYPICAL SECTION SUMMERHILL DRIVE
STA. 8+85.00 TO STA. 9+86.00



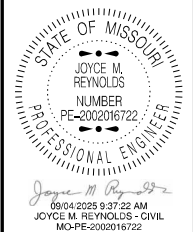
SECTION ON TANGENT
PROPOSED TYPICAL SECTION
PRIVATE ROAD LEFT OF STA. 646+15.01
TO STA. 647+39.15 $\oslash$ ROUTE 169
STA. 9+70.00 TO STA. 10+95.26



SECTION ON TANGENT
PROPOSED TYPICAL SECTION
TYPE 1 DRIVEWAY LEFT OF
STA. 8+91.78 $\oslash$ RIVERSIDE TERRACE

NOT TO SCALE

TYPICAL SECTIONS
SHEET 3 OF 4

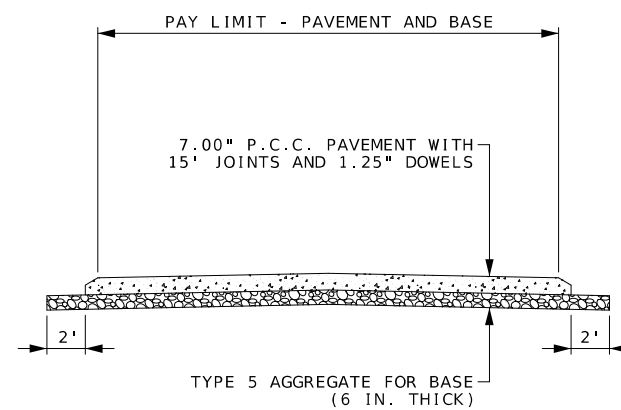
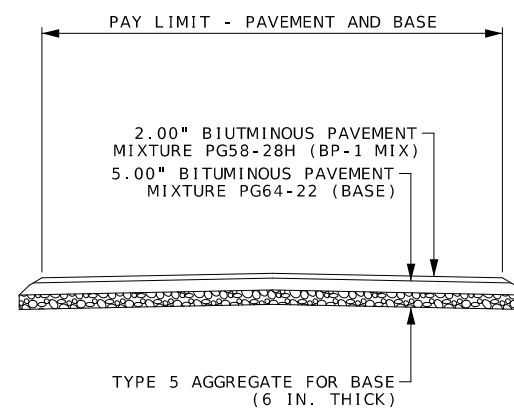
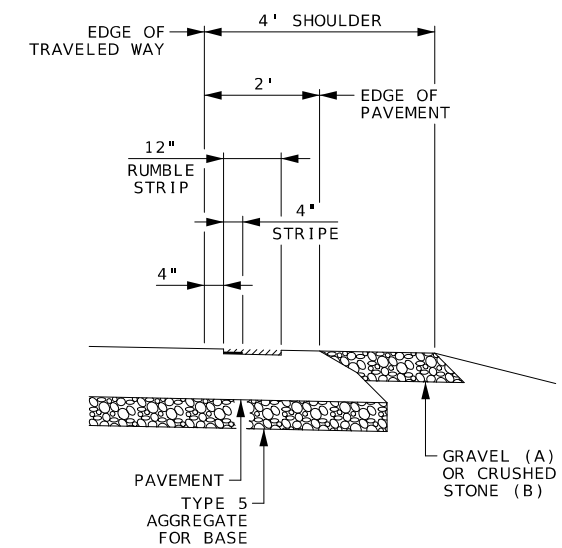
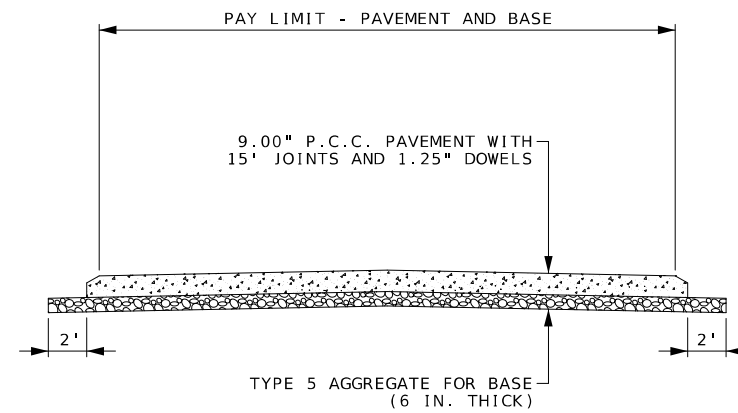
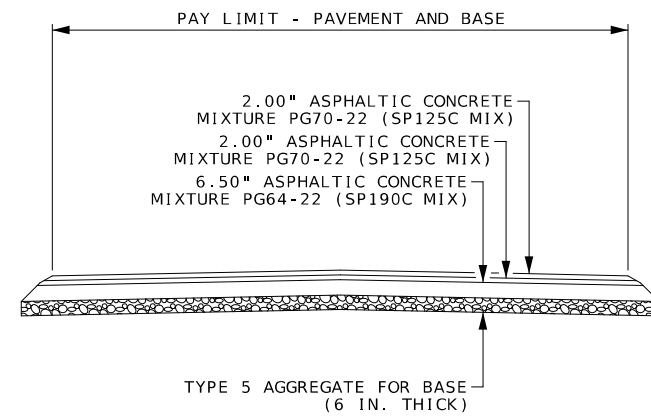


DATE PREPARED 9/3/2025	
ROUTE 169	STATE MO
DISTRICT NW	SHEET NO. 2
COUNTY BUCHANAN	
JOB NO. JNW0045	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

DESCRIPTION	DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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



STATE OF MISSOURI
JOYCE M. REYNOLDS
NUMBER
PE-2002016722
PROFESSIONAL ENGINEER

09/04/2025 9:37:31 AM
JOYCE M. REYNOLDS - CIVIL
MO. DE. 2002018700

DATE PREPARED
9/3/2025

ROUTE	STATE
169	MO

DISTRICT	SHEET NO.
NW	2

COUNTY
BUCHANAN

JOB NO.
JNW0045

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

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MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

MoDOT

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

REMOVAL OF IMPROVEMENTS			
STATION	STATION	LOCATION	DESCRIPTION
644+50.00	665+70.00	ROUTE 169	+/-6742 S.Y. EXISTING PAVEMENT
646+08.46	648+50.65	ROUTE 169 RT.	+/-241 L.F. FENCE
648+54.00	--	ROUTE 169 LT.	18" X 37' PLASTIC PIPE
648+80.17	--	ROUTE 169 RT.	INTERSECTION SIGN W/40 MPH PLAQUE - REMOVE POST, FOOTING AND SIGN
649+03.10	--	ROUTE 169 LT.	9' X 11' PRODUCE STAND, MAY BE MOVED BY PROPERTY OWNER IN ADVANCE
649+79.74	--	ROUTE 169 LT.	WOOD SIGN, MAY BE MOVED BY PROPERTY OWNER IN ADVANCE
650+08.55	--	ROUTE 169	4' X 2.5' X 50' BOX CULVERT
650+12.25	--	ROUTE 169 RT.	PIPE AND HEADWALLS (FARM CROSSING NORTH OF CROSSROAD CULVERT)
650+51.31	--	ROUTE 169 LT.	SMALL ARROW SIGN - REMOVE POST AND SIGN
656+66.22	665+90.00	ROUTE 169 RT.	+/-923 L.F. FENCE
660+77.82	--	ROUTE 169 LT.	INTERSECTION SIGN W/40 MPH PLAQUE - REMOVE POST, FOOTING AND SIGN
664+59.17	--	ROUTE 169	3' X 2' R.C.B. - REMOVE HEADWALLS AND PLUG CULVERT (NO DIRECT PAYMENT WILL BE MADE FOR PLUGGING OF CULVERT)
669+76.58	--	ROUTE 169 RT.	EXISTING DRIVEWAY PIPE
7+75.00	9+67.17	RIVERSIDE TERRACE	+/-458 S.Y. EXISTING PAVEMENT *
8+80.10	9+17.99	RIVERSIDE TERRACE LT.	+/-93 S.Y. EXISTING PAVED DRIVEWAY
9+21.23	--	RIVERSIDE TERRACE RT.	STOP SIGN - REMOVE POST, FOOTING AND SIGN, RE-USE STREET NAME SIGN
9+66.41	13+75.00	RIVERSIDE TERRACE	+/-1143 S.Y. EXISTING PAVEMENT *
10+39.80	11+16.19	RIVERSIDE TERRACE LT.	+/-67 L.F. FENCE
10+39.73	--	RIVERSIDE TERRACE LT.	STOP SIGN - REMOVE POST, FOOTING AND SIGN, RE-USE STREET NAME SIGN
8+85.00	9+86.58	SUMMERHILL DRIVE	+/-439 S.Y. EXISTING PAVEMENT *
9+46.47	--	SUMMERHILL DRIVE RT.	SUMMERHILL SIGN, MAY BE MOVED BY PROPERTY OWNER IN ADVANCE
9+47.01	--	SUMMERHILL DRIVE LT.	SUMMERHILL SIGN, MAY BE MOVED BY PROPERTY OWNER IN ADVANCE
9+58.98	--	SUMMERHILL DRIVE RT.	STOP SIGN - REMOVE POST, FOOTING AND SIGN
9+67.07	--	SUMMERHILL DRIVE	18" X 81' CORRUGATED METAL PIPE
1 LUMP SUM			

* EXISTING PAVEMENT VOLUMES OF RIVERSIDE TERRACE AND SUMMERHILL DRIVE ARE INCLUDED IN EARTHWORK CALCULATIONS.

EARTHWORK						
STATION	STATION	LOCATION	CLASS A EXCAVATION (CU. YD.)	EMBANKMENT IN PLACE (CU. YD.)	COMPACTING EMBANKMENT (CU. YD.)	REMARKS
644+50.00	665+70.00	ROUTE 169	17485	16616	14294	OBTAIN 397 C.Y. FROM BALANCE BETWEEN 7+75.00 AND 10+05.49 RIVERSIDE TERRACE SOUTH OBTAIN 418 C.Y. FROM BALANCE BETWEEN 9+94.33 AND 13+75.00 RIVERSIDE TERRACE NORTH OBTAIN 29 C.Y. FROM BALANCE BETWEEN 9+70.00 AND 10+95.26 PRIVATE ROAD
669+48.36	670+27.04	ROUTE 169 RT.	11	31	8	TYPE 1 DRIVEWAY
7+75.00	10+05.49	RIVERSIDE TERRACE SOUTH	572		43	USE 397 C.Y. IN BALANCE BETWEEN 644+50.00 AND 665+70.00 ROUTE 169
9+94.33	13+75.00	RIVERSIDE TERRACE NORTH	1076		410	USE 418 C.Y. IN BALANCE BETWEEN 644+50.00 AND 665+70.00 ROUTE 169
8+85.00	9+84.74	SUMMERHILL DRIVE	60	118	46	
9+70.00	10+95.26	PRIVATE ROAD	38			USE 29 C.Y. IN BALANCE BETWEEN 644+50.00 AND 665+70.00 ROUTE 169
PAY TOTALS			19242	16765	14801	

DRAINAGE													
STATION	LOCATION	SKEW	CLASS 3 EXCAVATION (CU. YD.)	ROCK LINING (CU. YD.)	PIPE GROUP C			66 IN. PIPE GROUP A (LIN. FT.)	66 IN. GROUP A F.E.S. (EACH)	GROUP C FLARED END SECTIONS			42 IN. SAFETY SLOPE END SECTION (6:1) (EACH)
					18 IN. (LIN. FT.)	30 IN. (LIN. FT.)	42 IN. (LIN. FT.)			18 IN. (LIN. FT.)	30 IN. (LIN. FT.)	42 IN. (LIN. FT.)	
9+70.33	℞ TYPE 1 DRWY. LT. OF 646+45.00	08°57'36" R.A.		1.8	36.5					2			
650+12.25	℄ ROUTE 169	01°55'00" R.A.	381.3	29.1				150.7	2				
9+55.99	℄ SUMMERHILL DRIVE	03°54'58" R.A.	71.0			91.3					2		
10+47.64	℞ TYPE 1 DRWY. RT. OF 663+86.50	00°41'57" R.A.					64.8					2	
10+34.57	℞ TYPE 1 DRWY. RT. OF 669+76.58	00°42'11" L.A.	24.8	14.8			30.5						2
TOTALS			477.1	45.7	36.5	91.3	95.3	150.7					
PAY TOTALS			477	46	37	91	95	151	2	2	2	2	2

COMPACTING IN CUT			
STATION	STATION	LOCATION	COMPACTING IN CUT (STA.)
644+50.00	646+67.57	ROUTE 169	2.18
654+74.27	665+70.00	ROUTE 169	10.96
7+75.00	9+85.10	RIVERSIDE TERRACE SOUTH	2.10
10+14.89	13+75.00	RIVERSIDE TERRACE NORTH	3.60
8+85.00	9+86.00	SUMMERHILL DRIVE	1.01
9+70.00	10+95.26	PRIVATE ROAD	1.25
TOTAL			21.10
PAY TOTAL			21.1

CLEARING AND GRUBBING				
STATION	STATION	LOCATION	CLEARING AND GRUBBING (ACRE)	REMARKS
644+50.00	648+40.92	ROUTE 169 LT.	0.19	BEGIN PROJECT TO EXISTING DRIVEWAY
644+50.00	657+78.36	ROUTE 169 RT.	1.85	BEGIN PROJECT TO RIVERSIDE TERRACE
648+44.81	655+67.79	ROUTE 169 LT.	0.47	EXISTING DRIVEWAY TO RIVERSIDE TERRACE
656+04.26	657+63.65	ROUTE 169 LT.	0.02	FROM RIVERSIDE TERRACE
657+47.43	665+70.00	ROUTE 169 RT.	1.27	RIVERSIDE TERRACE TO END OF PROJECT
658+77.90	663+72.26	ROUTE 169 LT.	0.13	TO SUMMERHILL DRIVE
664+00.73	665+70.00	ROUTE 169 LT.	0.16	SUMMERHILL DRIVE TO END OF PROJECT
669+48.36	670+27.04	ROUTE 169 RT.	0.03	AROUND DRIVEWAY
7+75.00	9+03.02	RIVERSIDE TERRACE LT.	0.03	
TOTAL			4.15	
PAY TOTAL			4	

MOBILIZATION
1 LUMP SUM

CONTRACTOR FURNISHED SURVEYING AND STAKING
1 LUMP SUM

STATE OF MISSOURI

JOYCE M. REYNOLDS

NUMBER

PE-2002016722

PROFESSIONAL ENGINEER

JOYCE M. REYNOLDS

09/04/2025 5:37:28 AM

JOYCE M. REYNOLDS - CIVIL

MO-PE-2002016722

DATE PREPARED

9/3/2025

ROUTE

169

STATE

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SHEET NO.

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MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL

JEFFERSON CITY, MO 65102

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

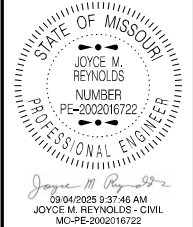
MoDOT

AGGREGATE SURFACE										
STATION	STATION	LOCATION	LENGTH (FT.)	THICKNESS (IN.)	WIDTH		VOLUME (CU. YD.)	ESTIMATE FACTOR (T/CY)	GRAVEL (A) OR CRUSHED STONE (B) (CU. YD.)	REMARKS
					SURFACE (FT.)	PAY (FT.)				
644+50.00	654+90.41	ROUTE 169 LT.	1040.41	6.00	2.00	2.25	43.35	1.40	60.7	SHOULDER
644+50.00	655+20.33	ROUTE 169 RT.	1070.33	6.00	2.00	2.25	44.60	1.40	62.4	SHOULDER
646+45.00	--	ROUTE 169 LT.	--	6.00	VARIES		15.35	1.40	21.5	TYPE 1 DRIVEWAY
656+61.00	663+00.71	ROUTE 169 LT.	639.71	6.00	2.00	2.25	26.65	1.40	37.3	SHOULDER
656+85.50	665+70.00	ROUTE 169 RT.	884.50	6.00	2.00	2.25	36.85	1.40	51.6	SHOULDER
663+86.50	--	ROUTE 169 RT.	--	6.00	VARIES		50.45	1.40	70.6	TYPE 1 DRIVEWAY
664+73.04	665+70.00	ROUTE 169 LT.	96.96	6.00	2.00	2.25	4.04	1.40	5.7	SHOULDER
669+76.58	--	ROUTE 169 RT.	--	6.00	VARIES		12.45	1.40	17.4	TYPE 1 DRIVEWAY
9+70.00	10+95.26	PRIVATE ROAD	125.26	6.00	10.00	10.50	24.36	1.40	34.1	
TOTAL									361.3	
PAY TOTAL									361	

PAVEMENT AND BASE								
STATION	STATION	LOCATION	LENGTH (FT.)	WIDTH (FT.)	TYPE 5 AGGR. FOR BASE (6 IN. THICK) (SQ. YD.)	OPTIONAL PAVEMENT		REMARKS
						ROUTE 169 (SQ. YD.)	COUNTY ROADS (SQ. YD.)	
644+50.00	665+70.00	ROUTE 169	2120.00	28.00	6595.6	6595.56		
7+75.00	9+29.40	RIVERSIDE TERRACE SOUTH	154.40	24.00	411.7		411.73	
8+91.78	--	RIVERSIDE TERRACE SOUTH LT.	55.00	12.00	91.2		91.19	TYPE I DRIVEWAY; INCLUDES RADII
9+29.40	9+85.10	RIVERSIDE TERRACE SOUTH	55.70	VARIES	311.6		311.56	INCLUDES RADII
10+14.89	10+69.43	RIVERSIDE TERRACE NORTH	54.54	VARIES	300.9		300.94	INCLUDES RADII
10+69.43	13+75.00	RIVERSIDE TERRACE NORTH	305.57	24.00	814.9		814.85	
8+85.00	9+39.13	SUMMERHILL DRIVE	54.13	30.00	180.4		180.43	
9+39.13	9+86.00	SUMMERHILL DRIVE	46.87	VARIES	318.4		318.41	INCLUDES RADII
TOTALS					9024.7	6595.56	2429.11	
PAY TOTALS					9025	6595.6	2429.1	

RUMBLE STRIPS					
STATION	STATION	LOCATION	LENGTH (FT.)	SHOULDER RUMBLE STRIP (STA.)	REMARKS
644+50.00	645+65.00	ROUTE 169 LT.	115.00	1.15	BEGIN PROJECT TO 50' SOUTH OF DRIVEWAY
648+04.70	654+40.25	ROUTE 169 LT.	635.55	6.36	130' NORTH OF DRIVEWAY TO 50' SOUTH OF RIVERSIDE TERRACE
657+91.43	662+50.88	ROUTE 169 LT.	459.45	4.59	130' NORTH OF RIVERSIDE TERRACE TO 50' SOUTH OF SUMMERHILL DRIVE
644+50.00	653+90.76	ROUTE 169 RT.	940.76	9.41	BEGIN PROJECT TO 130' SOUTH OF RIVERSIDE TERRACE
657+35.34	662+20.74	ROUTE 169 RT.	485.40	4.85	50' NORTH OF RIVERSIDE TERRACE TO 130' SOUTH OF DRIVEWAY
664+71.84	665+70.00	ROUTE 169 RT.	98.16	0.98	50' NORTH OF DRIVEWAY TO END OF PROJECT
TOTAL				27.34	
PAY TOTAL				27.3	

PERMANENT EROSION CONTROL								
STATION	STATION	LOCATION	TYPE 3 ROCK DITCH LINER		BEDDING MATERIAL FOR R.D.L. (CU. YD.)	PERM. EROSION CONTROL GEOTEXTILE (SQ. YD.)	TYPE 2 TURF REINFORCEMENT MAT (SQ. YD.)	REMARKS
			FURNISHING (CU. YD.)	PLACING (CU. YD.)				
649+55.57	651+00.00	ROUTE 169 LT.	161.5	161.5	58.7	370.3		18" TREATMENT DEPTH
660+00.00	662+00.00	ROUTE 169 RT.					184.9	8" TREATMENT DEPTH
661+77.72	663+56.36	ROUTE 169 LT.					168.2	8" TREATMENT DEPTH
662+00.00	663+52.93	ROUTE 169 RT.					153.2	10" TREATMENT DEPTH
664+30.03	665+70.00	ROUTE 169 RT.					166.7	13" TREATMENT DEPTH
664+54.67	665+70.00	ROUTE 169 LT.					110.2	8" TREATMENT DEPTH
TOTALS			161.5	161.5	58.7	370.3	783.2	
PAY TOTALS			162	162	59	370	783	



DATE PREPARED	
9/3/2025	
ROUTE	STATE
169	MO
DISTRICT	SHEET NO.
NW	3
COUNTY	
BUCHANAN	
JOB NO.	
JNW0045	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

DATE	DESCRIPTION					

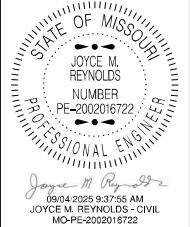
MISSOURI HIGHWAYS AND TRANSPORTATION
COMMISSION

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

DITCH CHECKS									
STATION	STATION	LOCATION	SPACING (FT.)	LENGTH PER CHECK (LIN. FT.)	NUMBER OF CHECKS (EACH)	SEDIMENT TRAP ROCK (CU. YD.)	ROCK DITCH CHECK (LIN. FT.)	ALTERNATE DITCH CHECK (LIN. FT.)	REMARKS
645+67	646+10	ROUTE 169 LT.	43.0	10.6	2		21.2		
646+70	647+15	ROUTE 169 LT.	45.0	20.7	2		41.4		
649+70	650+00	ROUTE 169 LT.	15.0	14.0	3		42.0		
650+09	650+10	ROUTE 169 LT.	16.0	24.7	3		74.1		108', 92' AND 76' LT.
650+19	650+62	ROUTE 169 LT.	43.0	14.0	2		28.0		
657+38	658+89	ROUTE 169 LT.	151.0	17.0	2		34.0		
659+79	660+56	ROUTE 169 LT.	77.0	17.0	2		34.0		
661+20	661+74	ROUTE 169 LT.	54.0	17.0	2		34.0		
662+13	662+44	ROUTE 169 LT.	31.0	17.0	2		34.0		
662+74	663+03	ROUTE 169 LT.	29.0	17.0	2		34.0		
663+29	663+55	ROUTE 169 LT.	26.0	17.0	2		34.0		
664+65	665+18	ROUTE 169 LT.	26.0	13.7	3		41.1		
665+44	--	ROUTE 169 LT.	--	15.4	1		15.4		
665+70	--	ROUTE 169 LT.	--	12.9	1		12.9		
645+72	646+23	ROUTE 169 RT.	51.0	10.9	2		21.8		
646+71	647+14	ROUTE 169 RT.	43.0	11.5	2		23.0		
650+16	--	ROUTE 169 RT.	--	16.5	1	2.3			143' RT. - SEDIMENT TRAP
654+97	--	ROUTE 169 RT.	--	17.0	1		17.0		
657+61	--	ROUTE 169 RT.	--	17.0	1		17.0		
658+82	--	ROUTE 169 RT.	--	17.0	1		17.0		
659+57	--	ROUTE 169 RT.	--	17.0	1		17.0		
660+11	660+59	ROUTE 169 RT.	48.0	17.0	2		34.0		
661+03	661+83	ROUTE 169 RT.	40.0	17.0	3		51.0		
662+11	663+20	ROUTE 169 RT.	18.0	17.0	7		119.0		
663+40	--	ROUTE 169 RT.	--	15.0	1		15.0		
664+95	665+70	ROUTE 169 RT.	75.0	17.6	2		35.2		
670+31	670+62	ROUTE 169 RT.	31.0	21.9	2		43.8		
9+84	9+99	PRIVATE ROAD LT.	7.5	3.7	3			11.1	
10+09	--	PRIVATE ROAD LT.	--	4.1	1			4.1	
10+19	--	PRIVATE ROAD LT.	--	4.1	1			4.1	
10+30	--	PRIVATE ROAD LT.	--	4.1	1			4.1	
10+43	--	PRIVATE ROAD LT.	--	4.1	1			4.1	
10+59	10+95	PRIVATE ROAD LT.	18.0	3.5	3			10.5	
7+75	--	RIVERSIDE TERRACE LT.	--	2.5	1			2.5	
8+76	8+83	RIVERSIDE TERRACE LT.	10.0	5.2	2			10.4	18' LT. TO 25' LT.
8+84	8+85	RIVERSIDE TERRACE LT.	8.0	3.6	2			7.2	33' LT. TO 41' LT.
8+85	8+86	RIVERSIDE TERRACE LT.	6.0	1.5	3			4.5	48' LT. TO 60' LT.
8+98	8+99	RIVERSIDE TERRACE LT.	6.0	2.8	4			11.2	62' LT. TO 44' LT.
9+00	9+01	RIVERSIDE TERRACE LT.	7.0	6.0	2			12	37' LT. TO 30' LT.
9+05	--	RIVERSIDE TERRACE LT.	--	6.2	1			6.2	22' LT.
10+74	--	RIVERSIDE TERRACE RT.	--	14.0	1		14.0		
11+45	--	RIVERSIDE TERRACE LT.	--	48.7	1		48.7		
12+29	--	RIVERSIDE TERRACE LT.	--	34.2	1		34.2		
12+91	--	RIVERSIDE TERRACE LT.	--	18.6	1		18.6		
TOTALS							1006.4	92.0	
PAY TOTALS						2.3	1006	92	

SILT FENCE				
STATION	STATION	LOCATION	SILT FENCE (LIN. FT.)	REMARKS
647+15	649+56	ROUTE 169 LT.	242.3	
647+75	653+98	ROUTE 169 LT.	650.1	MID-SLOPE
651+00	655+35	ROUTE 169 LT.	430.6	
647+14	654+97	ROUTE 169 RT.	791.5	
647+88	653+72	ROUTE 169 RT.	583.4	MID-SLOPE
649+79	654+59	ROUTE 169 RT.	481.7	MID-SLOPE
656+64	660+58	ROUTE 169 RT.	398.0	MID-SLOPE
657+50	659+48	ROUTE 169 RT.	201.0	MID-SLOPE
7+75	9+08	RIVERSIDE TERRACE RT.	130.1	
11+14	13+75	RIVERSIDE TERRACE RT.	269.0	
8+85	9+48	SUMMERHILL DRIVE RT.	67.5	
8+85	9+36	SUMMERHILL DRIVE LT.	51.6	
TOTAL			4296.8	
PAY TOTAL			4297	

SEDIMENT REMOVAL		
DESCRIPTION	SILT FENCE (LIN. FT.)	REMARKS
84 EA. ROCK DITCH CHECKS	84.0	EST. 1 C.Y./DITCH CHECK
4297 LIN. FT. SILT FENCE	43.0	EST. 1 C.Y./100 L.F. SILT FENCE
TOTAL	127.0	
PAY TOTAL	127	



DATE PREPARED 9/3/2025	
ROUTE 169	STATE MO
DISTRICT NW	SHEET NO. 3
COUNTY BUCHANAN	
JOB NO. JNW0045	
CONTRACT ID.	

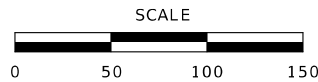
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BRIDGE NO.

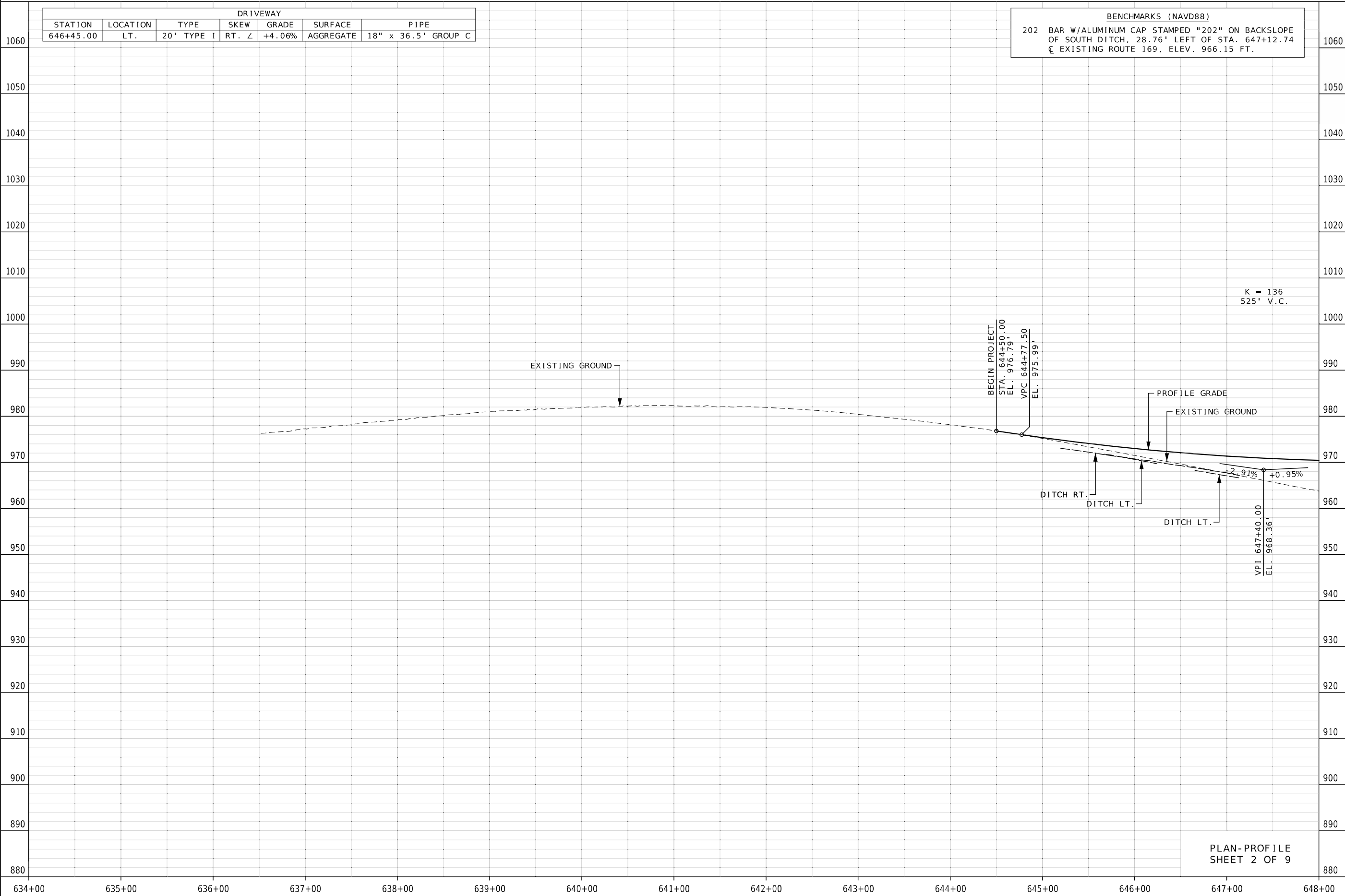
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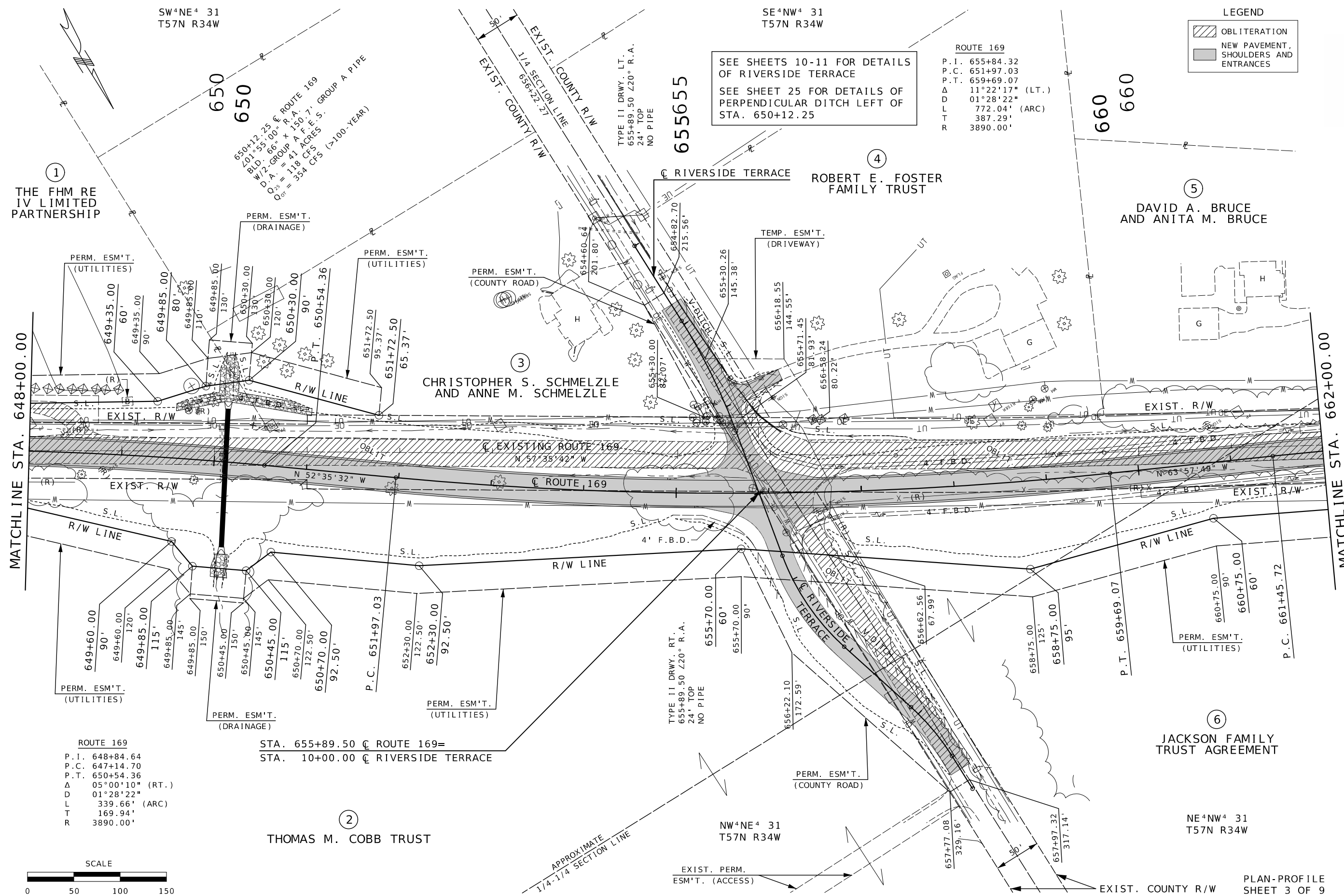
MISSOURI HIGHWAYS AND TRANSPORTATION
COMMISSION

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

SIGN								SIGN								SIGN								ITEM		TOTAL		EFFECTIVE: 07-01-2025	
SIGN	SIZE	AREA	QTY	TOTAL	RELOC	RELOC	SIGN	DESCRIPTION	SIGN	SIZE	AREA	QTY	TOTAL	RELOC	RELOC	SIGN	DESCRIPTION	NUMBER	TOTAL	DESCRIPTION	DESCRIPTION								
IN.	IN.	SQ. FT.	EACH	SQ. FT.	EACH	SQ. FT.	NO.		IN.	SQ. FT.	EACH	SQ. FT.	EACH	SQ. FT.	NO.			QTY											
WARNING SIGNS								GUIDE SIGNS								GUIDE SIGNS								6122008		IMPACT ATTENUATOR 40 MPH (SAND BARRELS)			
WO1-1L	48X48	16.00						TURN (SYMBOL LEFT)	E05-1	36X48	12.00						GORE EXIT	6122009		IMPACT ATTENUATOR 45 MPH (SAND BARRELS)									
WO1-1R	48X48	16.00						TURN (SYMBOL RIGHT)	E05-2	48X36	12.00						EXIT OPEN	6122010		IMPACT ATTENUATOR 50 MPH (SAND BARRELS)									
WO1-2L	48X48	16.00						CURVE (SYMBOL LEFT)	E05-2a	48X36	12.00						EXIT CLOSED	6122012		IMPACT ATTENUATOR 55 MPH (SAND BARRELS)									
WO1-2R	48X48	16.00						CURVE (SYMBOL RIGHT)	GO20-1	60X24	10.00						ROAD WORK NEXT XX MILES	6122014		IMPACT ATTENUATOR 60 MPH (SAND BARRELS)									
WO1-3L	48X48	16.00						REVERSE TURN (SYMBOL LEFT)	GO20-2	48X24	8.00						END ROAD WORK	6122017		IMPACT ATTENUATOR 65 MPH (SAND BARRELS)									
WO1-3R	48X48	16.00						REVERSE TURN (SYMBOL RIGHT)	GO20-4	36X18	4.50						PILOT CAR FOLLOW ME	6122019		IMPACT ATTENUATOR 70 MPH (SAND BARRELS)									
WO1-4L	48X48	16.00						REVERSE CURVE (SYMBOL LEFT)	GO20-4a	42X30	8.75						PILOT CAR IN USE WAIT & FOLLOW	6122020		REPLACEMENT SAND BARREL									
WO1-4R	48X48	16.00						REVERSE CURVE (SYMBOL RIGHT)	GO20-4a	18X12	1.50						PILOT CAR IN USE WAIT & FOLLOW	6122030		IMPACT ATTENUATOR (RELOCATION)									
WO1-4bL	48X48	16.00						DOUBLE ARROW REVERSE CURVE (SYMBOL LEFT)	GO20-5aP	36X24	6.00						WORK ZONE (PLAQUE)	6122040		WORK ZONE CRASH CUSHION (NARROW)									
WO1-4bR	48X48	16.00						DOUBLE ARROW REVERSE CURVE (SYMBOL RIGHT)	MO4-8a	24X18	3.00	2	6.00			52	END DETOUR	6122041		WORK ZONE CRASH CUSHION (RELOCATION)									
WO1-4cL	48X48	16.00						TRIPLE ARROW REVERSE CURVE (SYMBOL LEFT)	MO4-9L	48X36	12.00						DETOUR (LEFT)	6123001		TRUCK MOUNTED ATTENUATOR (TMA)									
WO1-4cR	48X48	16.00						TRIPLE ARROW REVERSE CURVE (SYMBOL RIGHT)	MO4-9R	48X36	12.00						DETOUR (RIGHT)	6161012		BUOYS (BOATS KEEP OUT)									
WO1-6	60X30	12.50						HORIZONTAL ARROW (SYMBOL)	MO4-9P	48X12	4.00						STREET NAME (PLAQUE)	6161013		BUOYS (NO WAKE)									
WO1-6a	72X36	18.00						HORIZ. ARROW (SYMBOL ON PERMANENT BARRICADE)	MO4-10L	48X18	6.00						DETOUR ARROW (LEFT)	6161014		SPECIAL SIGN ASSEMBLY (BOATS KEEP OUT)									
WO1-7	60X30	12.50						DOUBLE HEAD HORIZONTAL ARROW (SYMBOL)	MO4-10R	48X18	6.00						DETOUR ARROW (RIGHT)	6161020		CHANNELIZER (DRUM-LIKE)									
WO1-7a	72X36	18.00						DOUBLE HEAD HORIZ. ARROW (SYMBOL ON PERM. BARR.)	REGULATORY SIGNS								6161022		CHANNELIZER (CONE)										
WO1-8	18X24	3.00						CHEVRON (SYMBOL)	R1-1	48X48	13.25						STOP	6161025		CHANNELIZER (TRIM-LINE)									
WO1-8a	30X36	7.50						CHEVRON (SYMBOL FOR DIVIDED HIGHWAYS)	R1-2	48TR1	6.93						YIELD	6161026		CHANNELIZER (VERTICAL PANEL)									
WO3-1	48X48	16.00						STOP AHEAD (SYMBOL)	R1-2a	36X36	9.00						TO ONCOMING TRAFFIC (PLAQUE)	6161030	12*	TYPE 3 MOVEABLE BARRICADE									
WO3-2	48X48	16.00						YIELD AHEAD (SYMBOL)	R1-3P	30X12	2.50						ALL WAY (PLAQUE)	6161033		DIRECTION INDICATOR BARRICADE									
WO3-3	48X48	16.00						SIGNAL AHEAD (SYMBOL)	R2-1	36X48	12.00						SPEED LIMIT XX	6161040		FLASHING ARROW PANEL									
WO3-4	48X48	16.00						BE PREPARED TO STOP	R3-1	48X48	16.00						NO RIGHT TURN (SYMBOL)	6161047		TYPE 3 OBJECT MARKER									
WO3-5	48X48	16.00						SPEED LIMIT AHEAD	R3-2	48X48	16.00						NO LEFT TURN (SYMBOL)	6161055		SEQUENTIAL FLASHING									

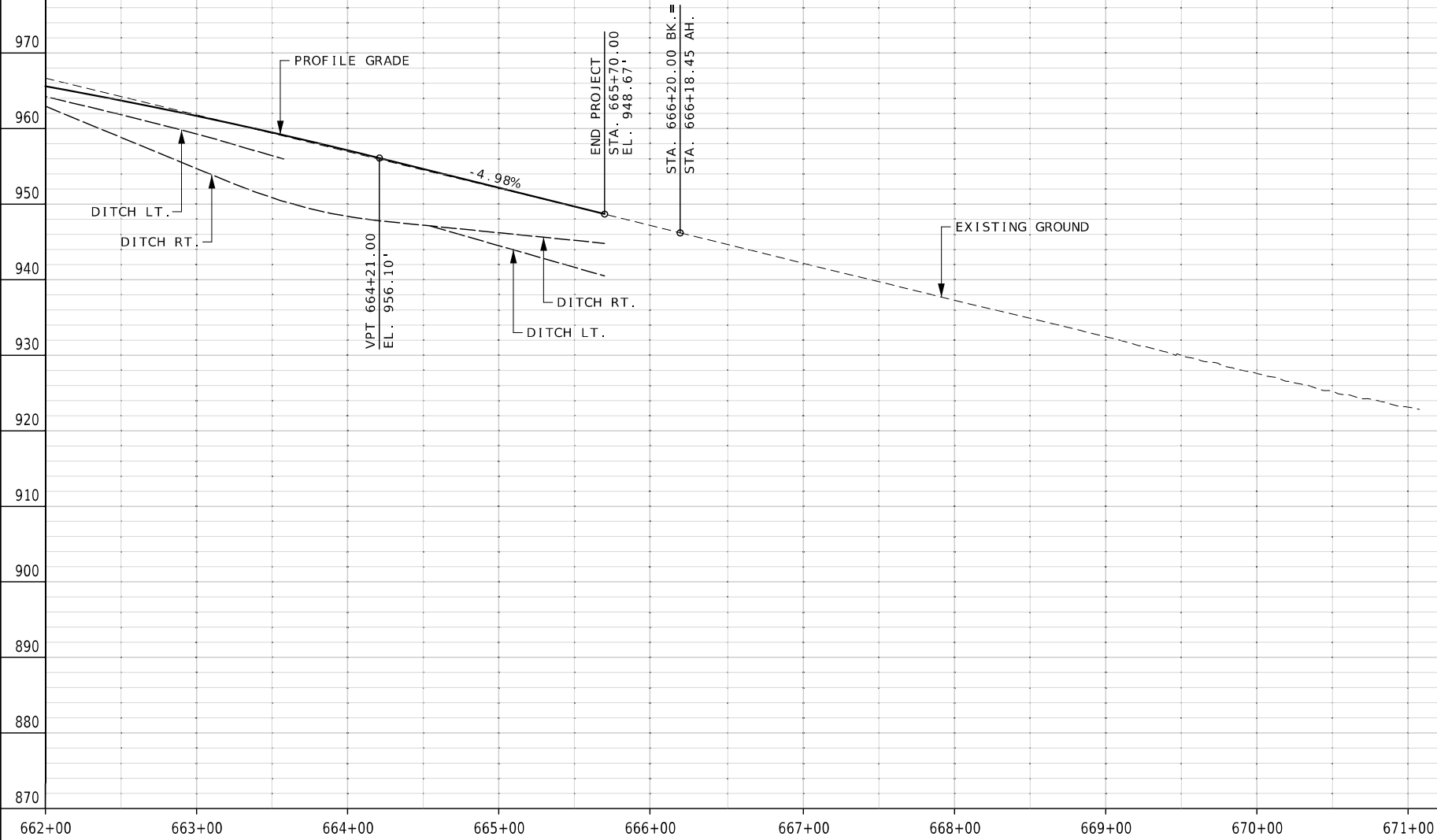




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DRIVEWAYS						
STATION	LOCATION	TYPE	SKEW	GRADE	SURFACE	PIPE
663+86.50	LT.	30' TYPE II	RT. ∠	-0.25%	PAVED	30" x 91.3' GROUP C
663+86.50	RT.	30' TYPE I	RT. ∠	-8.67%	AGGREGATE	42" x 64.8' GROUP C
669+76.58	RT.	15' TYPE I	RT. ∠	-5.30%	AGGREGATE	42" x 30.5' GROUP C

BENCHMARKS (NAVD88)
200 TOP OF NORTHWEST SQUARE BRICK OF SUMMERHILL SIGN ON
EAST SIDE OF SUMMERHILL DRIVE, 44.00' LEFT OF STA.
663+56.47 @ EXISTING ROUTE 169, ELEV. 961.24 FT.



PLAN-PROFILE
SHEET 6 OF 9

STATE OF MISSOURI

JOYCE M. REYNOLDS

NUMBER

PE-2002016722

PROFESSIONAL ENGINEER

JOYCE M. REYNOLDS

09/04/2025 9:41:14 AM

JOYCE M. REYNOLDS - CIVIL

MO-PE-2002016722

DATE PREPARED

9/3/2025

ROUTE

169

DISTRICT

NW

STATE

MO

SHEET NO.

9

COUNTY

BUCHANAN

JOB NO.

JNW0045

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION

DATE

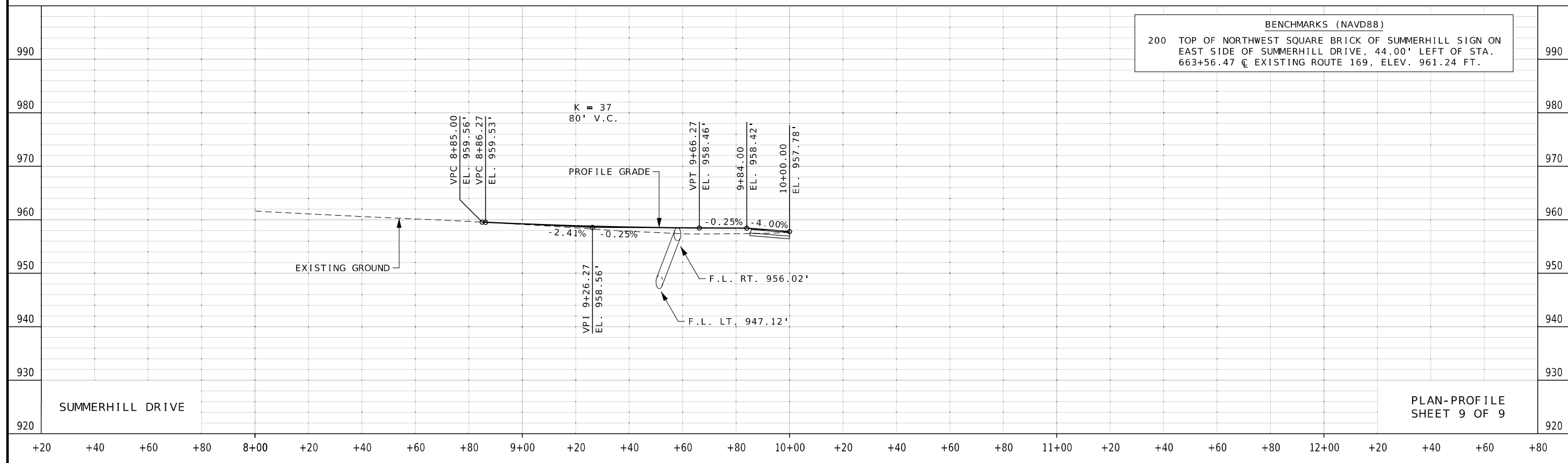
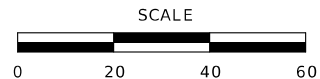
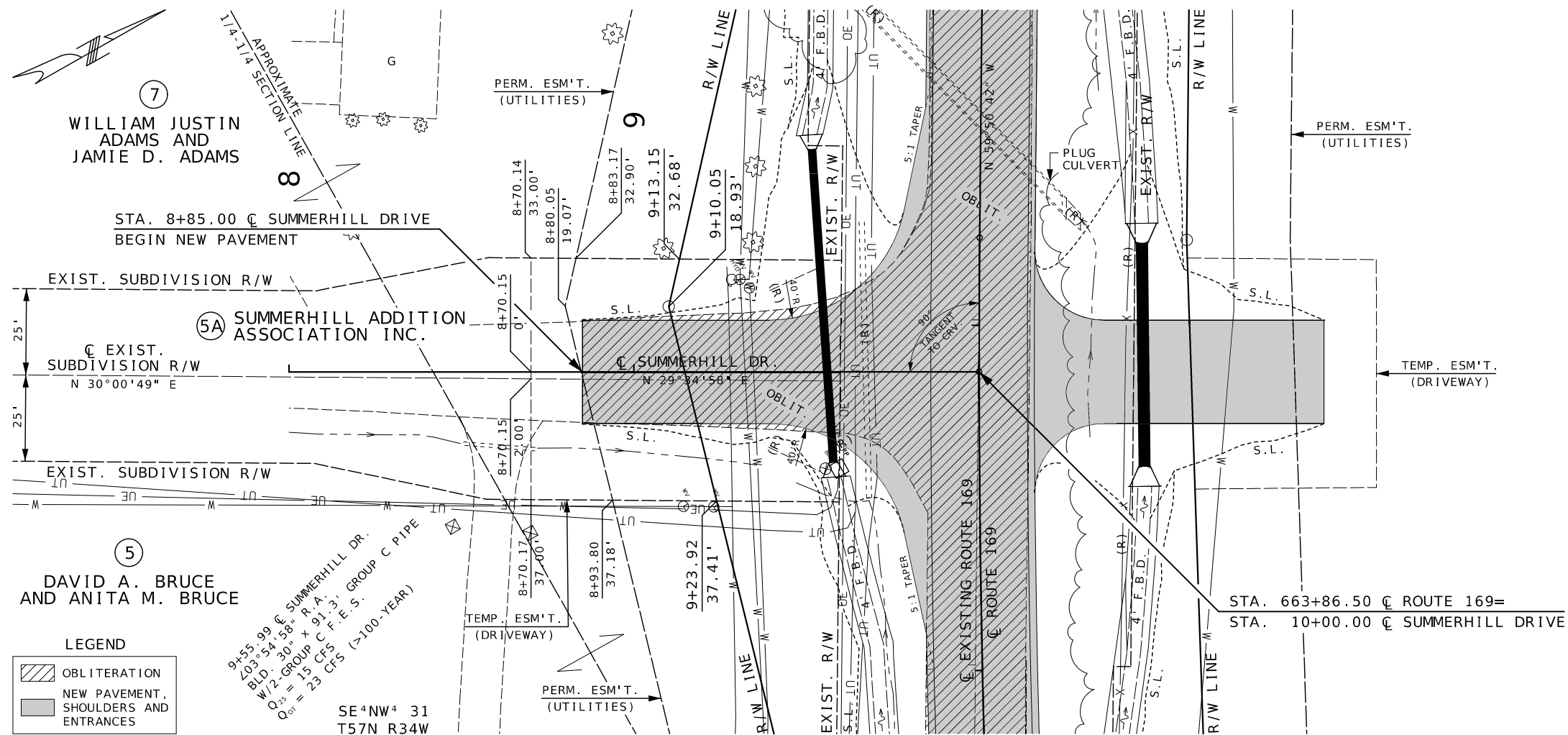
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

MoDOT

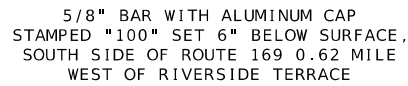
105 WEST CAPITOL

JEFFERSON CITY, MO 65102

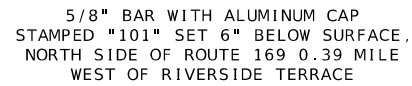
1-888-ASK-MODOT (1-888-275-6636)

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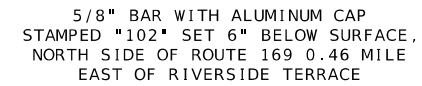
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E = 2713237.8680
EL. 925.91'



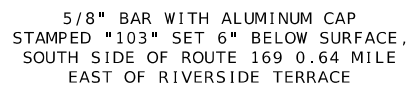
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EL. 930.82'



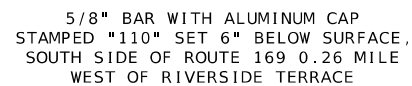
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EL. 959.08'



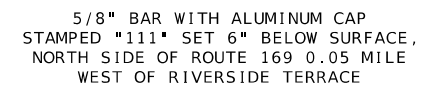
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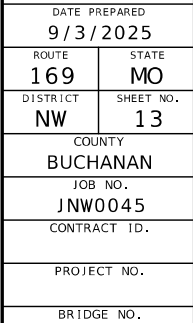
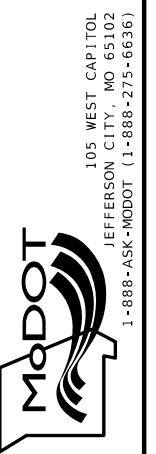
N = 1292871.0770
E = 2714927.2360
EL. 928.36'



N = 1292345.4500
E = 2715908.7980
EL. 977.58'



REFERENCE POINTS
SHEET 1 OF 1

[illegible]MISSOURI HIGHWAYS AND TRANSPORTATION
COMMISSION

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 (GROUND)	
HORIZONTAL DATUM	NAD83 (2011) EPOCH 2010	
VERTICAL DATUM	NAVD88	
GEOID MODEL	GEOID18	
ELEVATIONS DETERMINED BY	DIFFERENTIAL LEVELING	
PROJECT PROJECTION FACTOR	1.0000921	
REFERENCE CONTROL INFORMATION		
COORDINATE SYSTEM	MO. COORDINATE SYSTEM OF 1983	
CONTROL STATION	MISSOURI CORS	
DESIGNATION	MODOT PLATTE CITY CORS ARP	
CORS_ID	MOPL	
PID	DL6143	
LATITUDE	39°23'04.07194" N	
LONGITUDE	94°47'00.04266" W	
NORTHING (M)	357168.095	
EASTING (M)	825589.628	
ZONE	WEST	
PROJECT AVERAGE GRID FACTOR	0.9999079	
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 #110 N 1292871.0770 X 0.9999079 = N 1292752.0036 E 2714927.2360 X 0.9999079 = E 2714677.1912		
LINEAR UNIT CONVERSION		
1 METER = 3.280833333 US SURVEY FEET (USFT)		

COORDINATE POINT LISTING							
NAME	STATION	LOCATION	OFFSET (USFT)	MODIFIED STATE PLANE (GROUND)			DESCRIPTION
				NORTHING (US SURVEY FT)	EASTING (US SURVEY FT)	ELEVATION (US SURVEY FT)	
PROJECT CONTROL POINTS							
100				1,293,830.1330	2,713,237.8680	925.91	5/8" BAR WITH ALUMINUM CAP STAMPED "100", 6" BELOW SURFACE
101				1,293,262.9910	2,714,348.2530	930.82	5/8" BAR WITH ALUMINUM CAP STAMPED "101", 6" BELOW SURFACE
102				1,290,938.2780	2,718,151.1500	959.08	5/8" BAR WITH ALUMINUM CAP STAMPED "102", 6" BELOW SURFACE
103				1,290,379.4130	2,718,947.4780	901.84	5/8" BAR WITH ALUMINUM CAP STAMPED "103", 6" BELOW SURFACE
110	669+52.69	☒ EX. 169	20.02' LT.	1,292,871.0770	2,714,927.2360	928.36	5/8" BAR WITH ALUMINUM CAP STAMPED "110", 6" BELOW SURFACE
111	658+40.33 658+41.01	☒ EX. 169 ☒ 169	19.87' RT. 11.27' LT.	1,292,345.4500	2,715,908.7980	977.58	5/8" BAR WITH ALUMINUM CAP STAMPED "111", 6" BELOW SURFACE
200	663+56.47 663+58.79	☒ EX. 169 ☒ 169	44.00' LT. 44.57' LT.	1,292,550.8410	2,715,430.7190	961.24	TOP OF N.W. SQ. BRICK OF SUMMERHILL SIGN ON E. SIDE OF SUMMERHILL DRIVE
201	655+81.29 655+82.76	☒ EX. 169 ☒ 169	36.41' RT. 5.40' LT.	1,292,222.3990	2,716,135.2390	976.53	5/8" BAR WITH ALUMINUM CAP STAMPED "201", 12" BELOW SURFACE
202	647+12.74 647+12.74	☒ EX. 169 ☒ 169	28.76' LT. 28.76' LT.	1,291,701.9220	2,716,833.6130	966.15	5/8" BAR WITH ALUMINUM CAP STAMPED "202", 12" BELOW SURFACE
ALIGNMENTS							
169_EX	636+51.80			1,291,157.6435	2,717,744.7566		START
	657+37.50			1,292,274.1546	2,715,985.7607		P.C.; 657+35.23 BK.=657+37.50 AH.
	658+50.01			1,292,334.4520	2,715,890.7658		P.I.
	659+62.50			1,292,390.9734	2,715,793.4768		P.T.
	671+07.50			1,292,966.1563	2,714,803.4288		END
PR_169	644+50.00			1,291,585.4001	2,717,070.8519		START
	647+14.70			1,291,727.2543	2,716,847.3691		P.C.
	648+84.64			1,291,818.3235	2,716,703.8952		P.I.
	650+54.36			1,291,921.5573	2,716,568.9094		P.T.
	651+97.03			1,292,008.2272	2,716,455.5822		P.C.
	655+84.32			1,292,243.5027	2,716,147.9421		P.I.
	659+69.07			1,292,413.5027	2,715,799.9522		P.T.
	661+45.72			1,292,491.0410	2,715,641.2314		P.C.
	662+85.60			1,292,552.4378	2,715,515.5522		P.I.
	664+25.35			1,292,622.7025	2,715,394.6073		P.T.
	666+20.00			1,292,720.4837	2,715,226.2990		END
	7+00.00			1,291,932.9146	2,716,104.4945		START
RIV_TERR_SOUTH	7+95.64			1,292,028.5526	2,716,104.4548		P.C.
	8+61.95			1,292,094.8691	2,716,104.4273		P.I.
	9+27.81			1,292,159.8248	2,716,117.7929		P.T.
	10+00.00			1,292,230.5298	2,716,132.3415		END
	10+00.00			1,292,230.5298	2,716,132.3415		START
RIV_TERR_NORTH	10+72.19			1,292,301.2349	2,716,146.8901		P.C.
	11+33.24			1,292,361.0397	2,716,159.1959		P.I.
	11+91.96			1,292,419.7840	2,716,142.5482		P.T.
	12+89.29			1,292,513.4296	2,716,116.0099		P.C.
	13+23.98			1,292,546.8024	2,716,106.5524		P.I.
	13+58.22			1,292,581.4894	2,716,106.5380		P.T.
	14+00.00			1,292,623.2651	2,716,106.5207		END
	8+00.00			1,292,429.4253	2,715,329.5616		START
SUMMERHILL	10+00.00		1,292,603.3539	2,715,428.2978		END	
64645_LT	9+48.02		1,291,646.0128	2,716,878.3595		START	
	10+00.00		1,291,689.9009	2,716,906.2172		END	
PRIVATE_ROAD	9+50.00			1,291,618.3006	2,716,919.9612		START
	9+80.84			1,291,635.7706	2,716,894.5521		P.C.
	10+01.83			1,291,647.6678	2,716,877.2483		P.I.
	10+22.74			1,291,656.5117	2,716,858.2023		P.T.
	10+92.57			1,291,685.9241	2,716,794.8608		P.C.
	11+06.40			1,291,691.7456	2,716,782.3239		P.I.
	11+20.19			1,291,698.9137	2,716,770.5051		P.T.
	11+50.00			1,291,714.3727	2,716,745.0165		END
8+91.78_LT	8+75.00			1,292,145.5798	2,715,988.3959		START
	8+75.00			1,292,145.5798	2,715,988.3959		P.C.
	9+03.34			1,292,138.5575	2,716,015.8484		P.I.
	9+31.62			1,292,134.3933	2,716,043.8771		P.T.
	10+00.00			1,292,124.3447	2,716,111.5120		END
663+86.50_RT	10+00.00		1,292,603.3539	2,715,428.2978		START	
	11+50.00		1,292,733.8003	2,715,502.3500		END	
669+76.58_RT	10+00.00		1,292,900.3892	2,714,916.6322		START	
	10+60.00		1,292,952.2693	2,714,946.7727		END	

STATE OF MISSOURI

JOYCE M. REYNOLDS

NUMBER

PE-2002016722

PROFESSIONAL ENGINEER

JOYCE M. REYNOLDS

09/04/2025 9:40:36 AM

JOYCE M. REYNOLDS - CIVIL

MO-PE-2002016722

DATE PREPARED

9/3/2025

ROUTE

169

STATE

MO

DISTRICT

NW

SHEET NO.

14

COUNTY

BUCHANAN

JOB NO.

JNW0045

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)

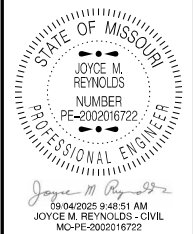
ROUTE 169				
Design Speed: 60 Pivot Method: Crown E Selection: 8% L Selection: MoDOT-AASHTO 2018 Eq. 3-23 and Table 3-16a				
STATION	LEFT		RIGHT	
	CROSS SLOPE	POINT TYPE	CROSS SLOPE	POINT TYPE
644+50.00	-2.42%	Match Existing	-0.72%	Match Existing
644+60.05	-2.00%	Normal Crown	--	--
644+91.08	--	--	-2.00%	Normal Crown
646+02.70	-2.00%	Normal Crown	--	--
646+50.70	0.00%	Level Crown	--	--
646+98.70	2.00%	Reverse Crown	-2.00%	Normal Crown
647+46.70	4.00%	Full Super	-4.00%	Full Super
650+22.36	4.00%	Full Super	-4.00%	Full Super
650+74.03	2.00%	Reverse Crown	-2.00%	Normal Crown
651+25.70	0.00%	Level Crown	0.00%	Level Crown
651+77.36	-2.00%	Normal Crown	2.00%	Reverse Crown
652+29.03	-4.00%	Full Super	4.00%	Full Super
659+37.07	-4.00%	Full Super	4.00%	Full Super
659+97.23	-2.00%	Normal Crown	2.00%	Reverse Crown
660+57.40	0.00%	Level Crown	0.00%	Level Crown
661+17.56	2.00%	Reverse Crown	-2.00%	Normal Crown
661+77.72	4.00%	Full Super	-4.00%	Full Super
663+93.35	4.00%	Full Super	-4.00%	Full Super
664+41.35	2.00%	Reverse Crown	-2.00%	Normal Crown
664+89.35	0.00%	Level Crown	--	--
665+37.35	-2.00%	Normal Crown	--	--
665+44.76	-2.00%	Normal Crown	-2.00%	Normal Crown
665+61.79	-1.29%	--	--	--
665+70.00	-1.29%	Match Existing	-0.95%	Match Existing

RIVERSIDE TERRACE (SOUTH)				
Design Speed: 30 Pivot Method: Crown E Selection: 4% L Selection: MoDOT - AASHTO 2018 Eq. 3-23 and Table 3-16a				
STATION	LEFT		RIGHT	
	CROSS SLOPE	POINT TYPE	CROSS SLOPE	POINT TYPE
7+75.00	-4.45%	Match Existing	-4.04%	Match Existing
7+82.48	-4.04%	--	-4.04%	--
7+97.73	-3.20%	--	-3.20%	Full Super
9+01.35	--	--	-3.20%	Full Super
9+07.54	2.86%	--	-2.86%	--
9+29.40	1.65%	--	-1.65%	--
9+59.63	--	--	Match Elevation of Route 169 Shoulder	
10+05.49	Match Elevation of Route 169 Shoulder		--	--

RIVERSIDE TERRACE (NORTH)				
Design Speed: 30 Pivot Method: Crown E Selection: 4% L Selection: MoDOT - AASHTO 2018 Eq. 3-23 and Table 3-16a				
STATION	LEFT		RIGHT	
	CROSS SLOPE	POINT TYPE	CROSS SLOPE	POINT TYPE
9+94.33	--	--	Match Elevation of Route 169 Shoulder	
10+43.64	Match Elevation of Route 169 Shoulder		--	--
10+69.43	-2.16%	--	2.16%	--
11+03.07	-4.00%	Full Super	4.00%	Full Super
11+67.62	-4.00%	Full Super	4.00%	Full Super
12+40.62	0.00%	Level Crown	0.00%	Level Crown
12+82.73	2.31%	--	-2.31%	--
13+13.62	--	--	-4.00%	Full Super
13+52.45	--	--	-4.00%	Full Super
13+75.00	-2.75%	Match Existing	-5.00%	Match Existing

SUMMERHILL DRIVE				
Design Speed: 30 Pivot Method: Crown E Selection: 4% L Selection: MoDOT - AASHTO 2018 Eq. 3-23 and Table 3-16a				
STATION	LEFT		RIGHT	
	CROSS SLOPE	POINT TYPE	CROSS SLOPE	POINT TYPE
8+85.00	-1.76%	Match Existing	-1.20%	Match Existing
9+29.02	-1.76%	--	1.76%	--
9+39.20	-2.45%	--	2.45%	--
9+84.57	Match Elevation of Route 169 Shoulder		--	--
9+84.74	--	--	Match Elevation of Route 169 Shoulder	

PRIVATE ROAD				
Design Speed: N/A Pivot Method: Crown E Selection: N/A L Selection: N/A				
STATION	LEFT		RIGHT	
	CROSS SLOPE	POINT TYPE	CROSS SLOPE	POINT TYPE
9+70.00	-5.70%	Match Existing	-5.50%	Match Existing
9+70.69	-5.50%	--	-5.50%	--
9+78.75	-3.12%	Normal Crown	-3.12%	Normal Crown
10+00.00	--	--	3.12%	Reverse Crown
10+95.26	-3.12%	Normal Crown	3.12%	Reverse Crown



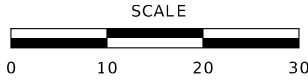
DATE PREPARED 9/3/2025	
ROUTE 169	STATE MO
DISTRICT NW	SHEET NO. 15
COUNTY BUCHANAN	
JOB NO. JNW0045	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

DATE	DESCRIPTION				

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION



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



P.I. 8+61.95
P.C. 7+95.64
P.T. 9+27.81
 Δ 11°39'03" (RT.)
D 08°48'53"
L 132.18' (ARC)
T 66.32'
R 650.00'

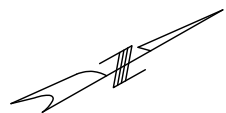
P.I. 655+84.32
P.C. 651+97.03
P.T. 659+69.07
 Δ 11°22'17" (LT.)
D 01°28'22" (ARC)
L 772.04'
T 387.29'
R 3890.00'

P.I. 11+33.24
P.C. 10+72.19
P.T. 11+91.96
 Δ 27°26'58" (LT.)
D 22°55'06"
L 119.77' (ARC)
T 61.06'
R 250.00'

GEOMETRICS
SHEET 1 OF 2
AL SHEET 2 OF 6

MISSOURI HIGHWAYS AND TRANSPORTATION
COMMISSION

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



8

8+85.00 C SUMMERHILL DRIVE

9

C SUMMERHILL DRIVE
N 29°34'58" E

664

664+73.04
16.00' - 14.00' LT.

664+63.04
16.00' LT.

664+40.89
61.22' LT.

9+39.13
55.00' LT.

664+33.04
22.00' LT.

5:1 TAPER

40' R

9+39.13
15.00' LT.

C ROUTE 169
N 59°50'42" W

P.T. 664+25.35

663+86.50 C ROUTE 169=
10+00.00 C SUMMERHILL DRIVE

90°
TANGENT
TO CURVE

40' R

9+39.20
15.00' RT.

663+40.31
22.00' LT.

663+32.35
61.18' LT.

9+39.20
55.00' RT.

5:1 TAPER

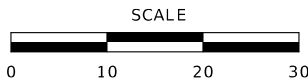
663+10.82
16.00' LT.

663+00.71
14.00' - 16.00' LT.

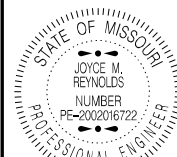
663

ROUTE 169

P.I. 662+85.60
P.C. 661+45.72
P.T. 664+25.35
Δ 04°07'07" (RT.)
D 01°28'22"
L 279.63' (ARC)
T 139.87'
R 3890.00'



GEOMETRICS
SHEET 2 OF 2
SPECIAL SHEET 3 OF 6



DATE PREPARED
9/3/2025

ROUTE	STATE
169	MO
DISTRICT	SHEET NO.
NW	17

COUNTY
BUCHANAN
JOB NO.
JNW0045
CONTRACT ID.

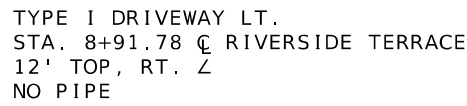
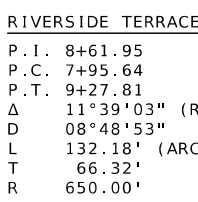
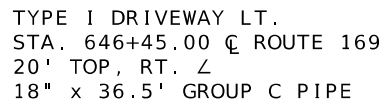
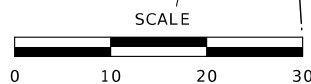
PROJECT NO.

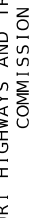
BRIDGE NO.

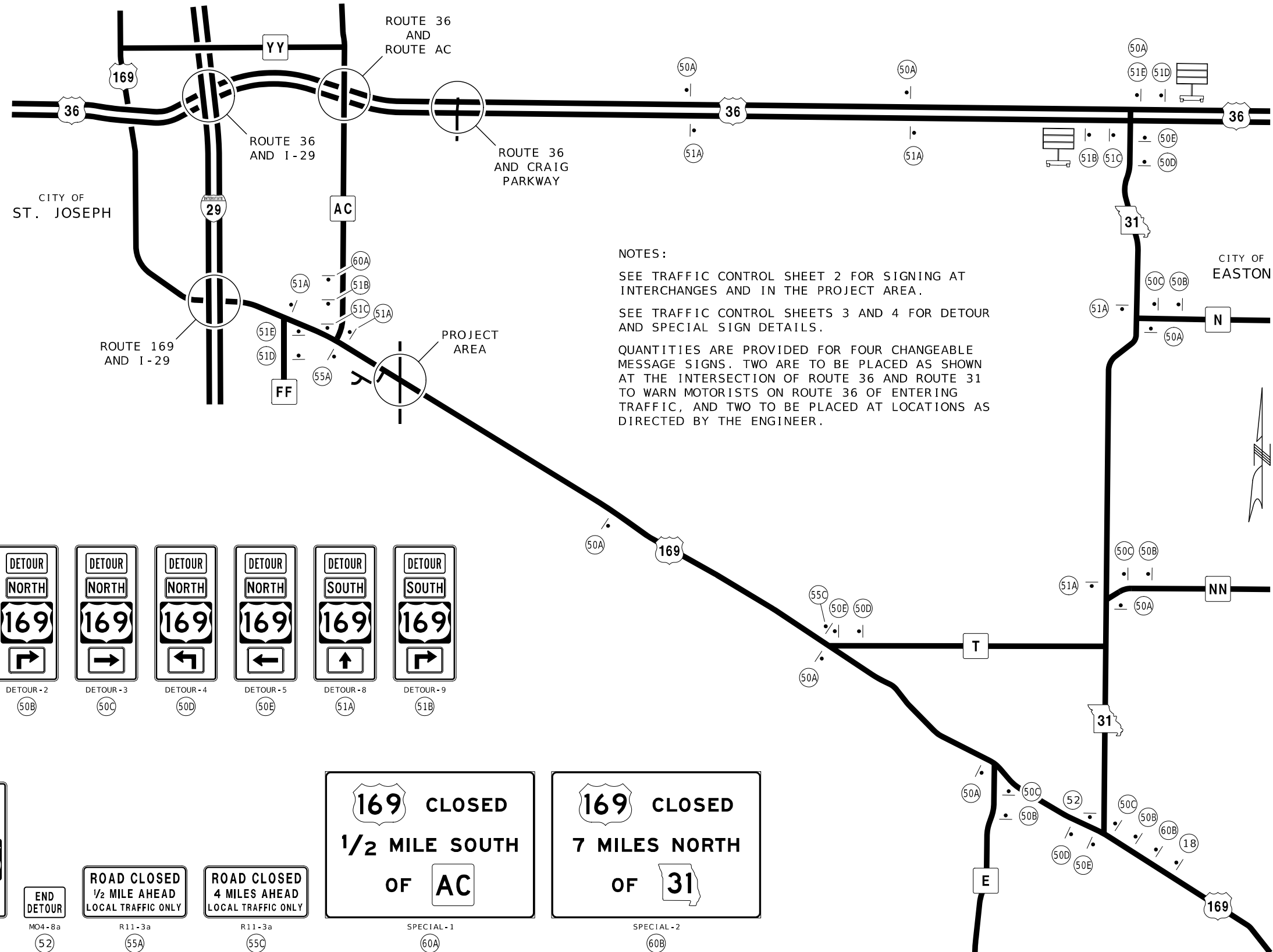
DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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

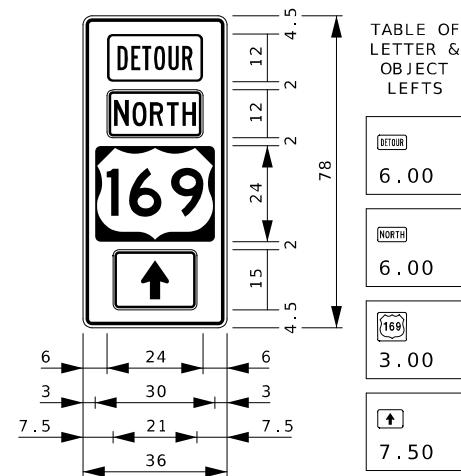


		DATE PREPARED 9/3/2025	
ROUTE 169		STATE MO	
DISTRICT NW		SHEET NO. 19	
COUNTY BUCHANAN			
JOB NO. JNW0045			
CONTRACT ID.			
PROJECT NO.			
BRIDGE NO.			
DESCRIPTION			
DATE			
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION			
			
105 WEST CAPITOL JEFFERSON CITY, MO 65102 1-888-ASK-MODOT (1-888-275-6636)			

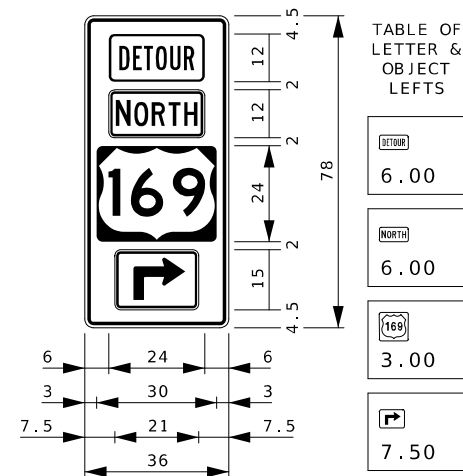


QUANTITIES ARE PROVIDED FOR FOUR CHANGEABLE MESSAGE SIGNS. TWO ARE TO BE PLACED AS SHOWN AT THE INTERSECTION OF ROUTE 36 AND ROUTE 31 TO WARN MOTORISTS ON ROUTE 36 OF ENTERING TRAFFIC, AND TWO TO BE PLACED AT LOCATIONS AS DIRECTED BY THE ENGINEER.

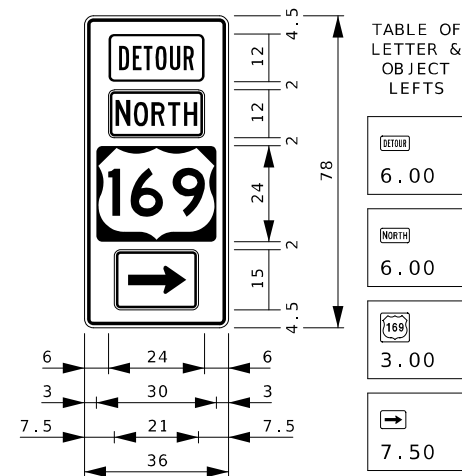
TRAFFIC CONTROL
SHEET 1 OF 4



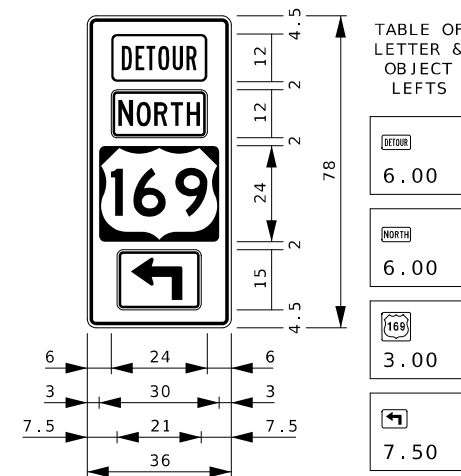
50A DETOUR-1



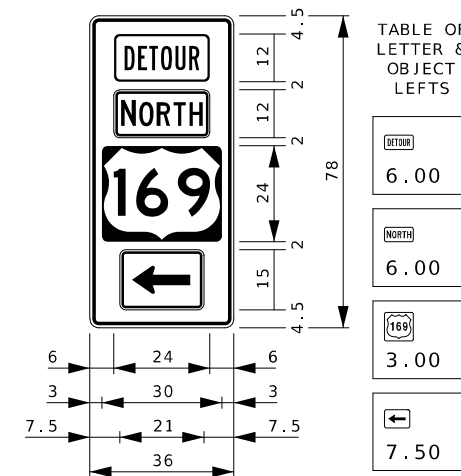
50B DETOUR-2



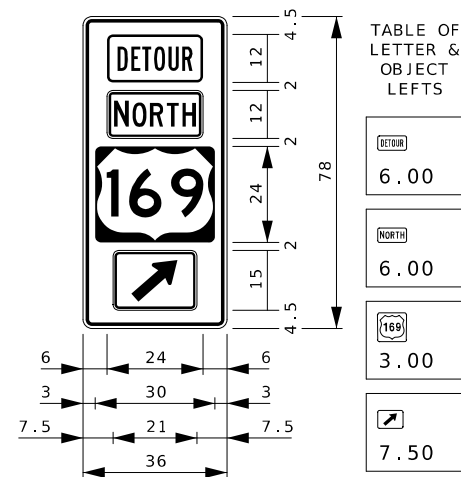
50C DETOUR-3



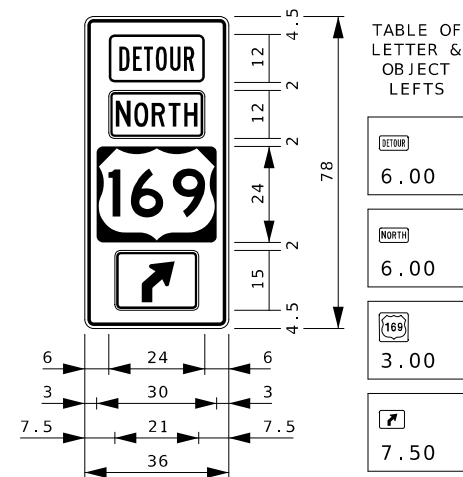
50D DETOUR-4



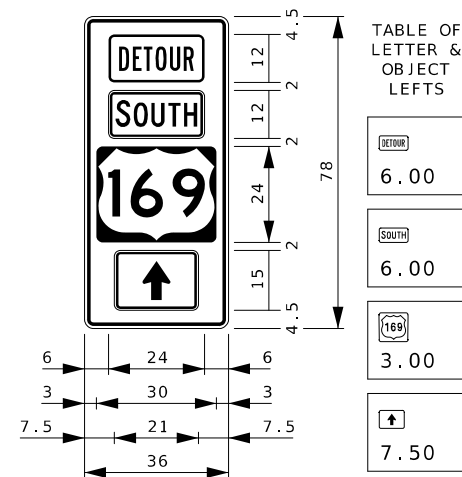
50E DETOUR-5



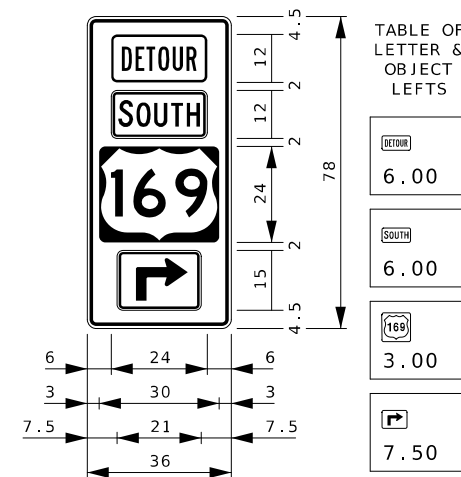
50F DETOUR-6



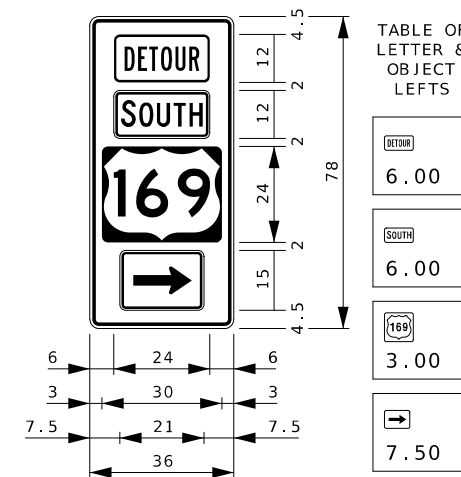
50G DETOUR-7



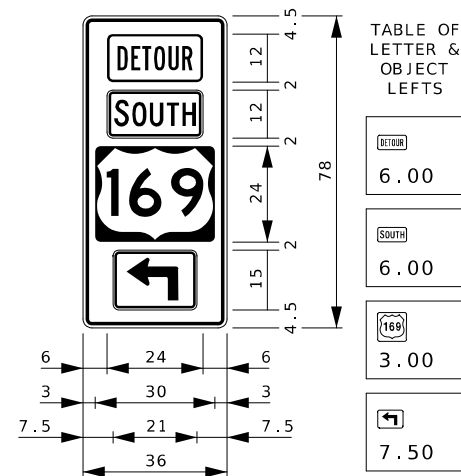
51A DETOUR-8



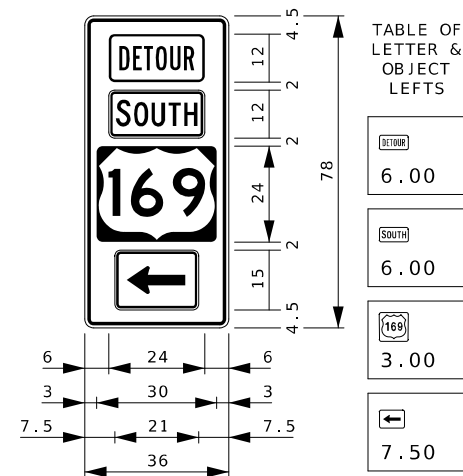
51B DETOUR-9



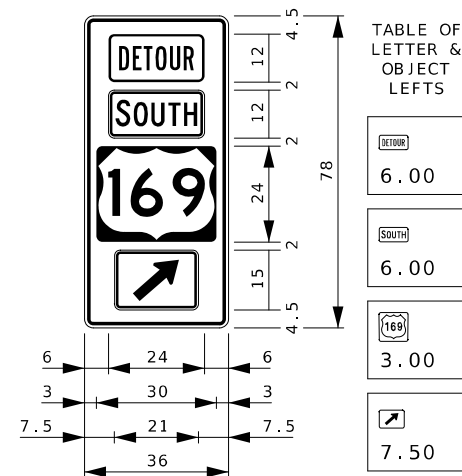
51C DETOUR-10



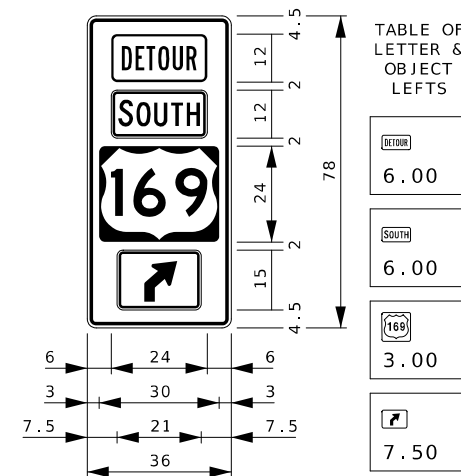
51D DETOUR-11



51E DETOUR-12



51F DETOUR-13



51G DETOUR-14

SIGNS 50A-51G

2.25" RADIUS
0.88" BORDER
0.63" INDENT
FLAT SHEET
FLUORESCENT (SHF)
BLACK LEGEND ON
FLUORESCENT ORANGE
BACKGROUND

NOT TO SCALE

DETOUR SIGN DETAILS

TRAFFIC CONTROL
SHEET 3 OF 4

JOYCE M. REYNOLDS
09/04/2025 9:47:49 AM
JOYCE M. REYNOLDS - CIVIL
MO-PE-2002016722

DATE PREPARED
9/3/2025

ROUTE 169	STATE MO
DISTRICT NW	SHEET NO. 23

COUNTY
BUCHANAN

JOB NO.
JNW0045

CONTRACT ID.

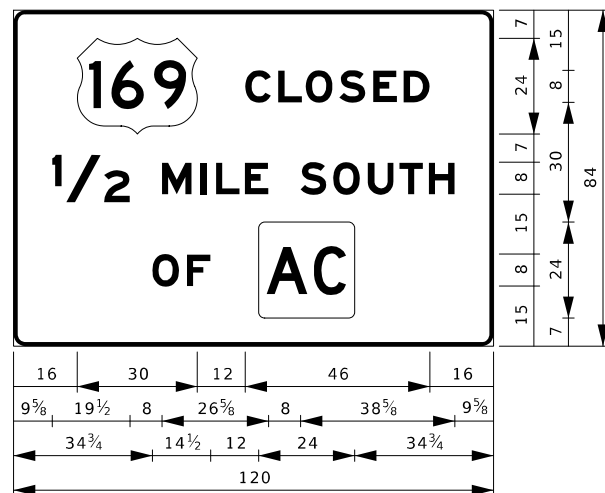
PROJECT NO.

BRIDGE NO.

DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION
COMMISSION

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



(60A) SPECIAL - 1

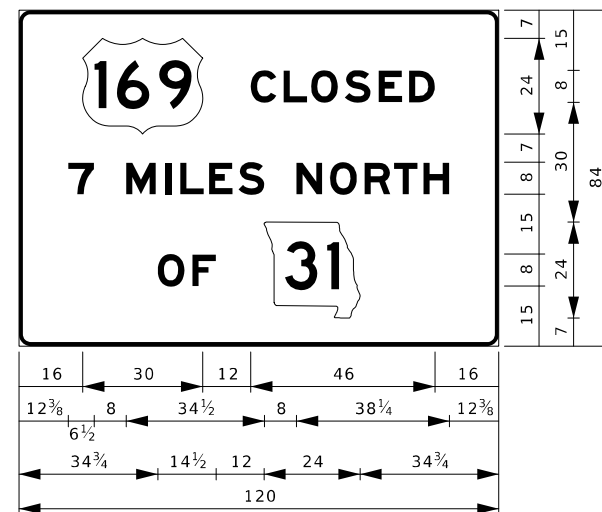
3.00" RADIUS, 1.00" BORDER, FLAT SHEET FLUORESCENT (SHF),
BLACK LEGEND ON FLUORESCENT ORANGE BACKGROUND;
US 169 M1-4 12.00" D; [CLOSED] 8.00" E MOD;
[1/2 MILE SOUTH] 8.00" E MOD;
[OF] 8.00" E MOD; STATE ROUTE AC M1-5a 12.00" D;

TABLE OF LETTER AND OBJECT LEFTS:

	C	L	O	S	E	D
16.000	58.000	66.250	73.125	81.500	90.000	97.625

1	/	2	M	I	L	E	S	O	U	T	H
9.625	13.125	22.625	37.125	46.750	50.625	57.875	71.750	79.875	88.625	96.500	103.875

O 34.750	F 43.375	AC 61.250
--------------------	--------------------	---------------------



(60B) SPECIAL-2

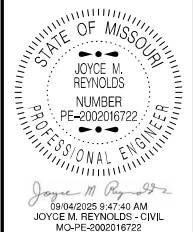
3.00" RADIUS, 1.00" BORDER, FLAT SHEET FLUORESCENT (SHF),
BLACK LEGEND ON FLUORESCENT ORANGE BACKGROUND;
US 169 M1-4 12.00" D; [CLOSED] 8.00" E MOD;
[7 MILES NORTH] 8.00" E MOD;
[OF] 8.00" E MOD; STATE HIGHWAY 31 M1-5 12.00" D;

TABLE OF LETTER AND OBJECT LEFTS:

	C	L	O	S	E	D
16.000	58.000	66.250	73.125	81.500	90.000	97.625

7	M	I	L	E	S	N	O	R	T	H
12.375	26.875	36.500	40.375	47.500	54.875	69.375	77.750	86.500	93.750	101.125

O 34.750	F 43.375	 61.250
--------------------	--------------------	---



DATE PREPARED

9/3/2025

ROUTE 169	STATE MO
--------------	-------------

DISTRICT NW	SHEET NO. 24
----------------	-----------------

COUNTY
BUCHANAN

JOB NO.
JNW0045

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

[illegible]MISSOURI HIGHWAYS AND TRANSPORTATION
COMMISSION

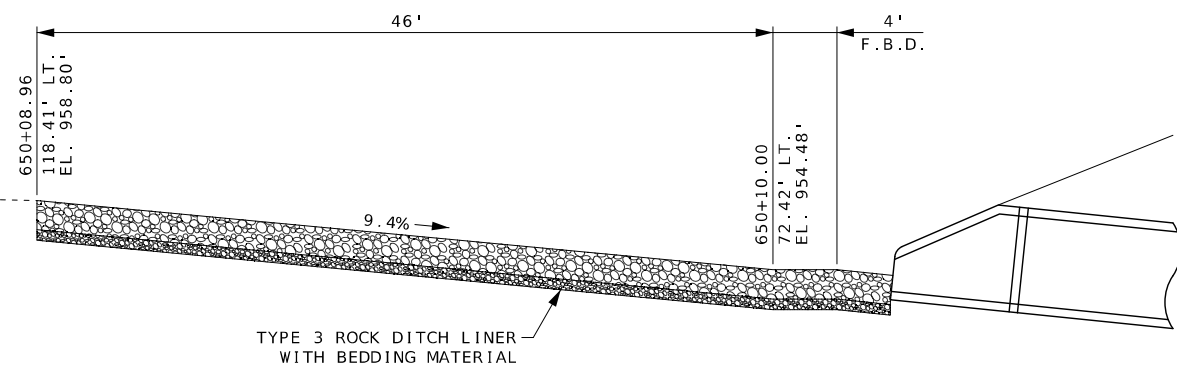
NOT TO SCALE

SPECIAL SIGN DETAILS

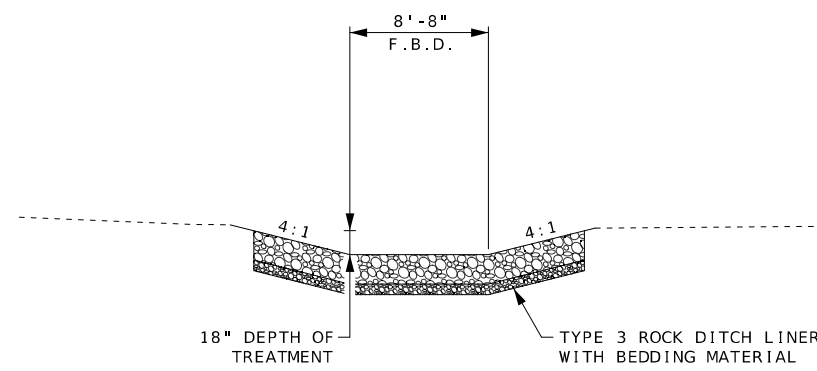
TRAFFIC CONTROL
SHEET 4 OF 4



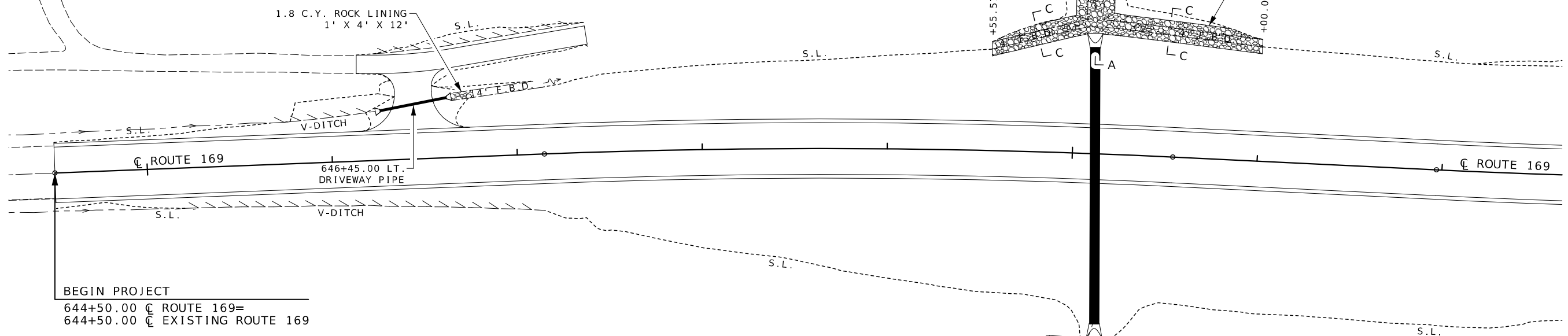
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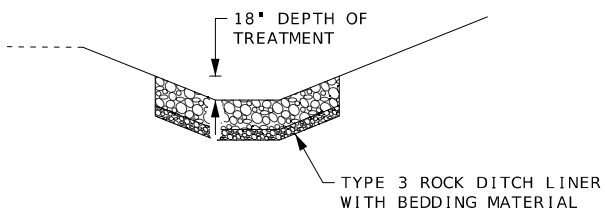
SECTION A-A



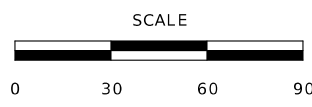
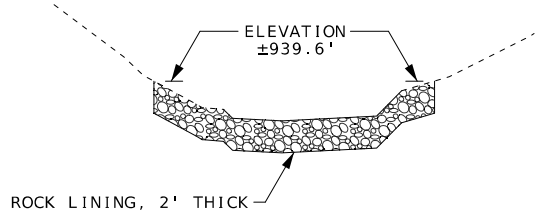
SECTION B-B



SECTION C-C



SECTION D-D



STATE OF MISSOURI

JOYCE M. REYNOLDS

NUMBER

PE-2002016722

PROFESSIONAL ENGINEER

JOYCE M. REYNOLDS

09/04/2025 9:47:33 AM

JOYCE M. REYNOLDS - CIVIL

MO-PE-2002016722

DATE PREPARED

9/3/2025

ROUTE

169

STATE

MO

DISTRICT

NW

SHEET NO.

25

COUNTY

BUCHANAN

JOB NO.

JNW0045

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION

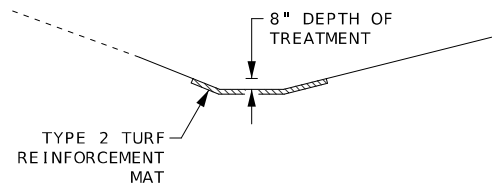
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MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

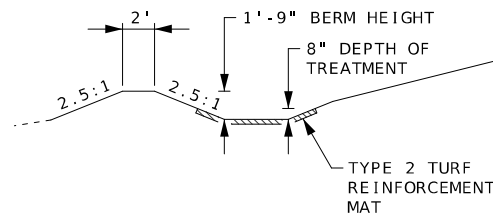
105 WEST CAPITOL

JEFFERSON CITY, MO 65102

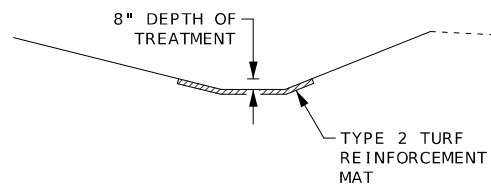
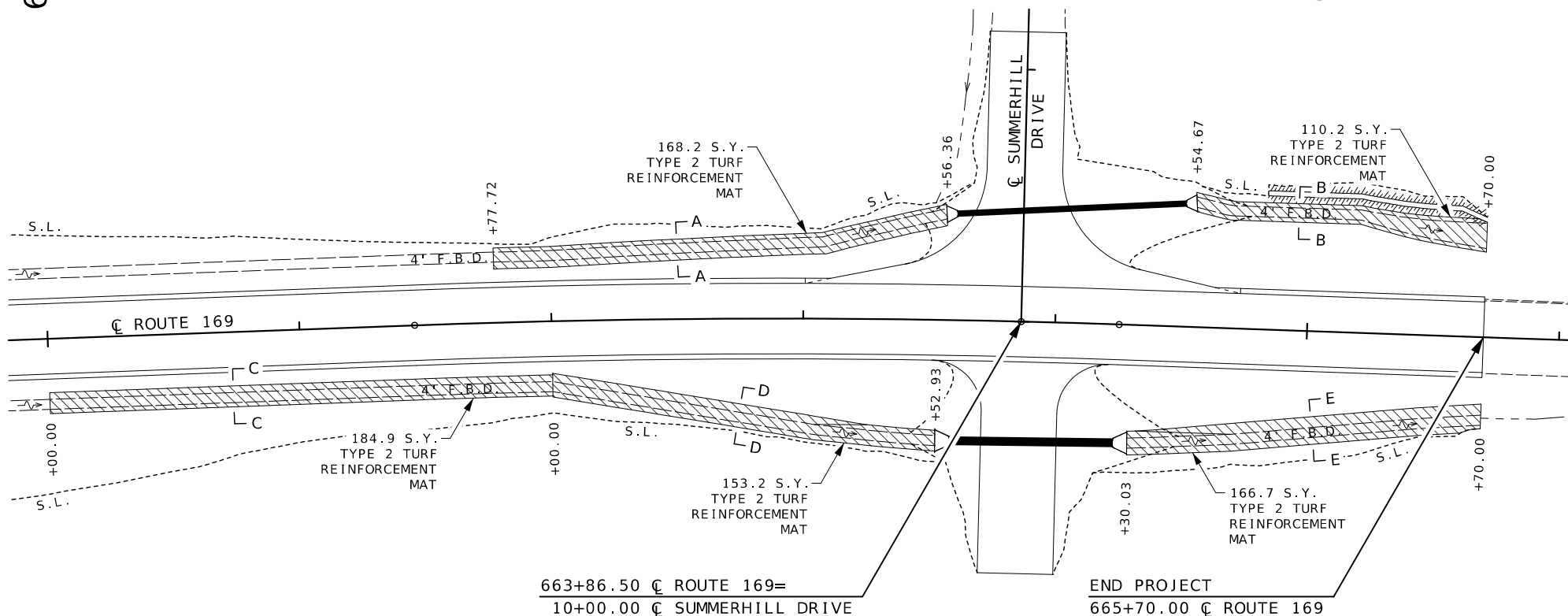
1-888-ASK-MODOT (1-888-275-6636)



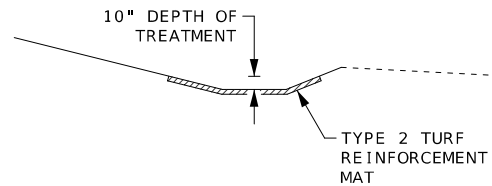
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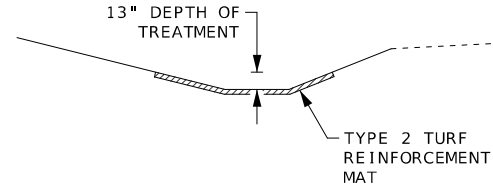
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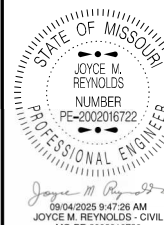
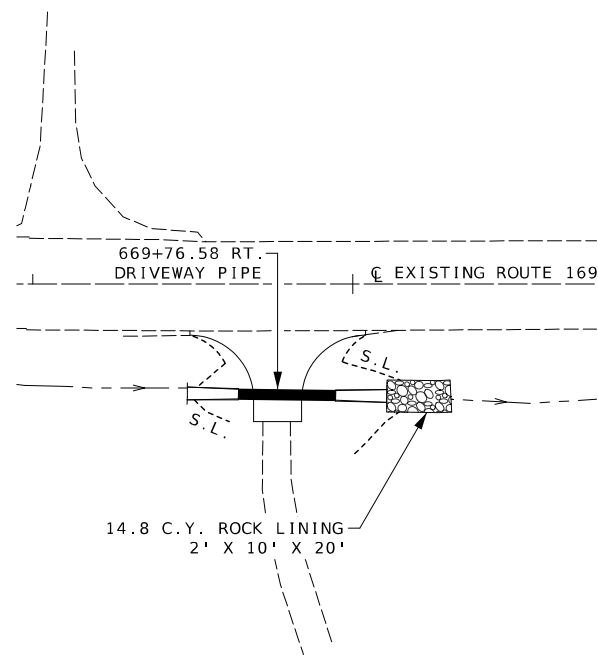
SECTION C-C



SECTION D-D



SECTION E-E



DATE PREPARED
9/3/2025

ROUTE 169 STATE MO

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COUNTY BUCHANAN

JOB NO. JNW0045

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION

DATE

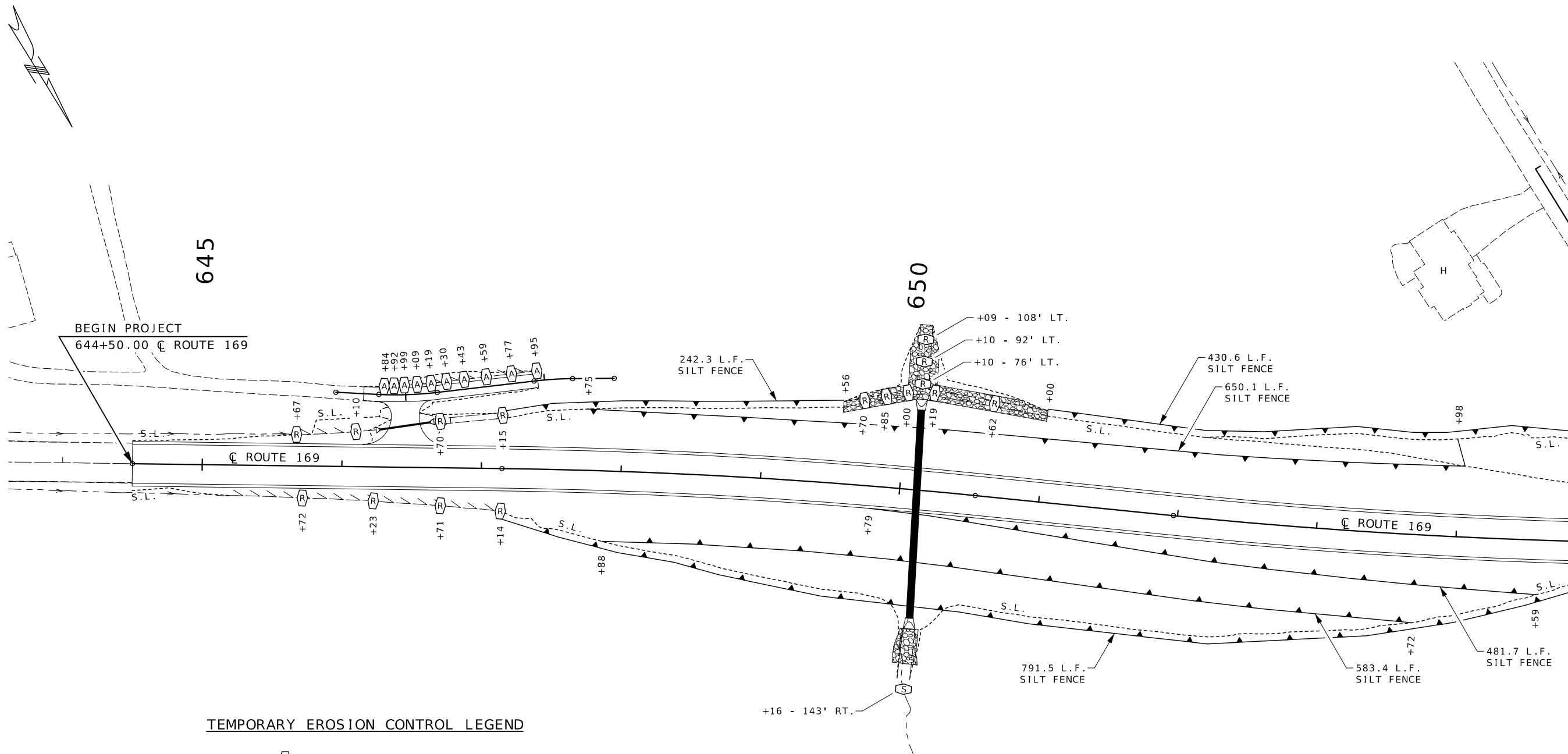
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL

JEFFERSON CITY, MO 65102

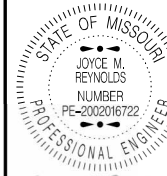
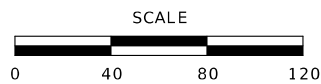
1-888-ASK-MODOT (1-888-275-6636)

MoDOT



TEMPORARY EROSION CONTROL LEGEND

-  ALTERNATE DITCH CHECK
-  ROCK DITCH CHECK
-  SEDIMENT TRAP
-  SILT FENCE



DATE PREPARED
9/3/2025

ROUTE 169 STATE MO

DISTRICT NW SHEET NO. 27

COUNTY BUCHANAN

JOB NO. JNW0045

CONTRACT ID.

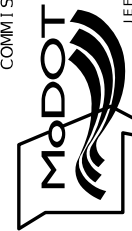
PROJECT NO.

BRIDGE NO.

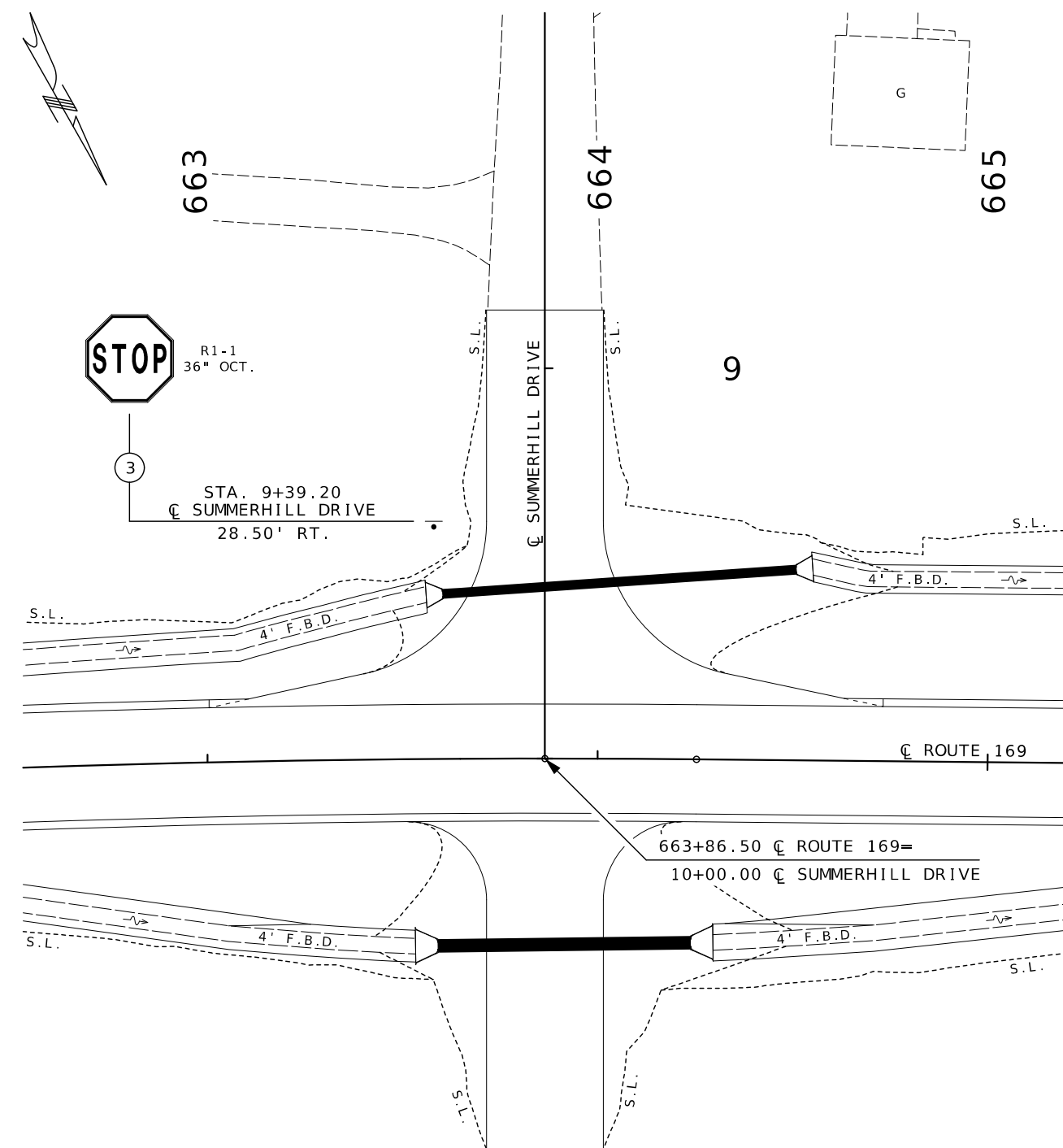
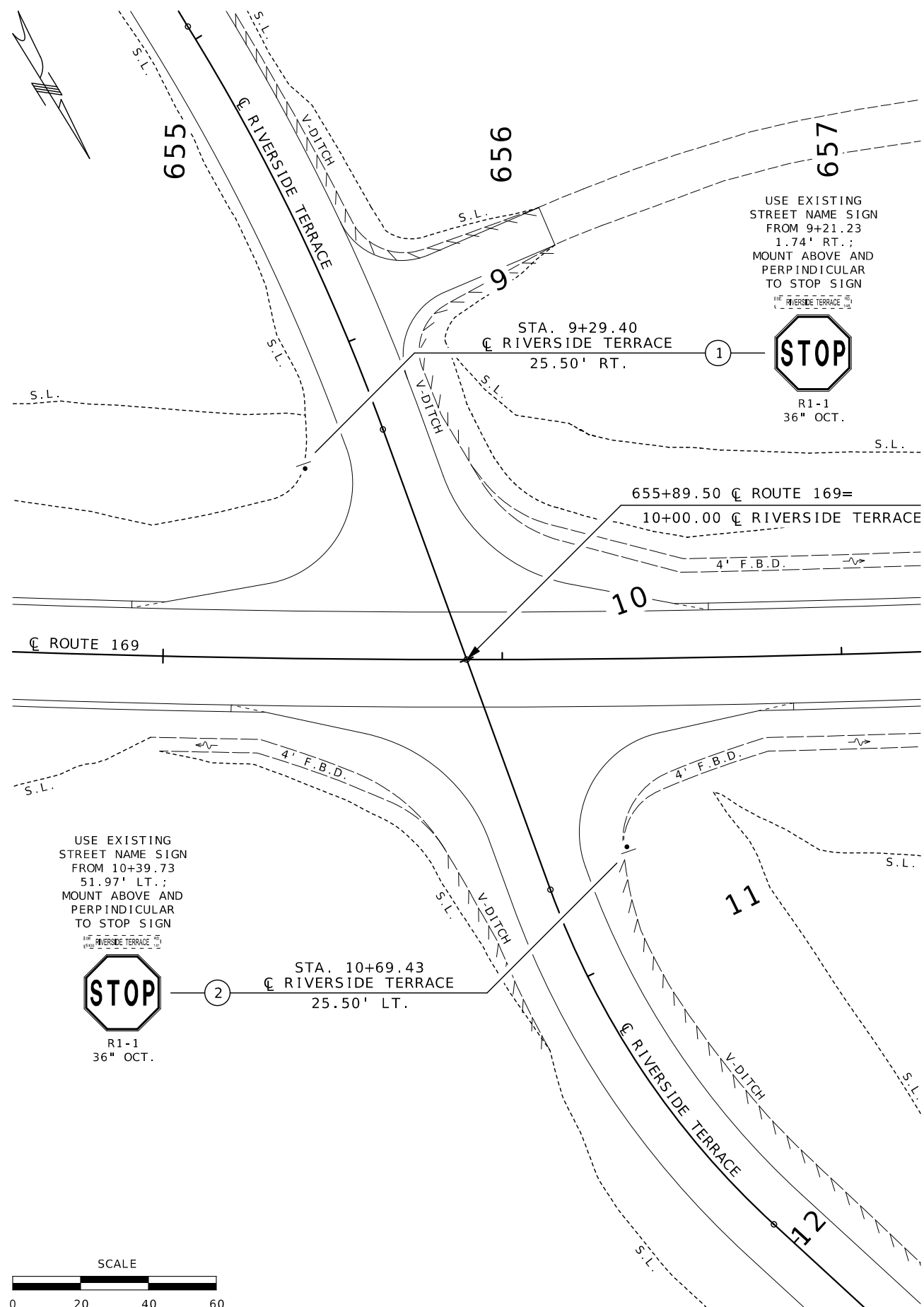
DATE	DESCRIPTION

MATCHLINE STA. 654+83.50

MISSOURI HIGHWAYS AND TRANSPORTATION
COMMISSION

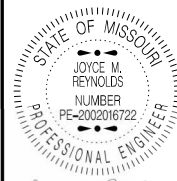


105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)



NOTE: SEE THE REMOVAL OF IMPROVEMENTS TABLE
IN THE SUMMARY OF QUANTITIES FOR A
LIST OF EXISTING SIGNS TO BE REMOVED.

SIGNING
SHEET 1 OF 2



Joyce M Reynolds
09/04/2025 9:52:17 AM
JOYCE M. REYNOLDS - CIVIL
MC DE 20000167388

DATE PREPARED
9/3/2025

ROUTE	STATE
169	MO

DISTRICT	SHEET NO
NW	29

COUNTY
BUCHANAN

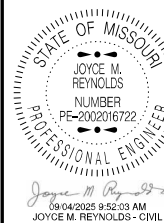
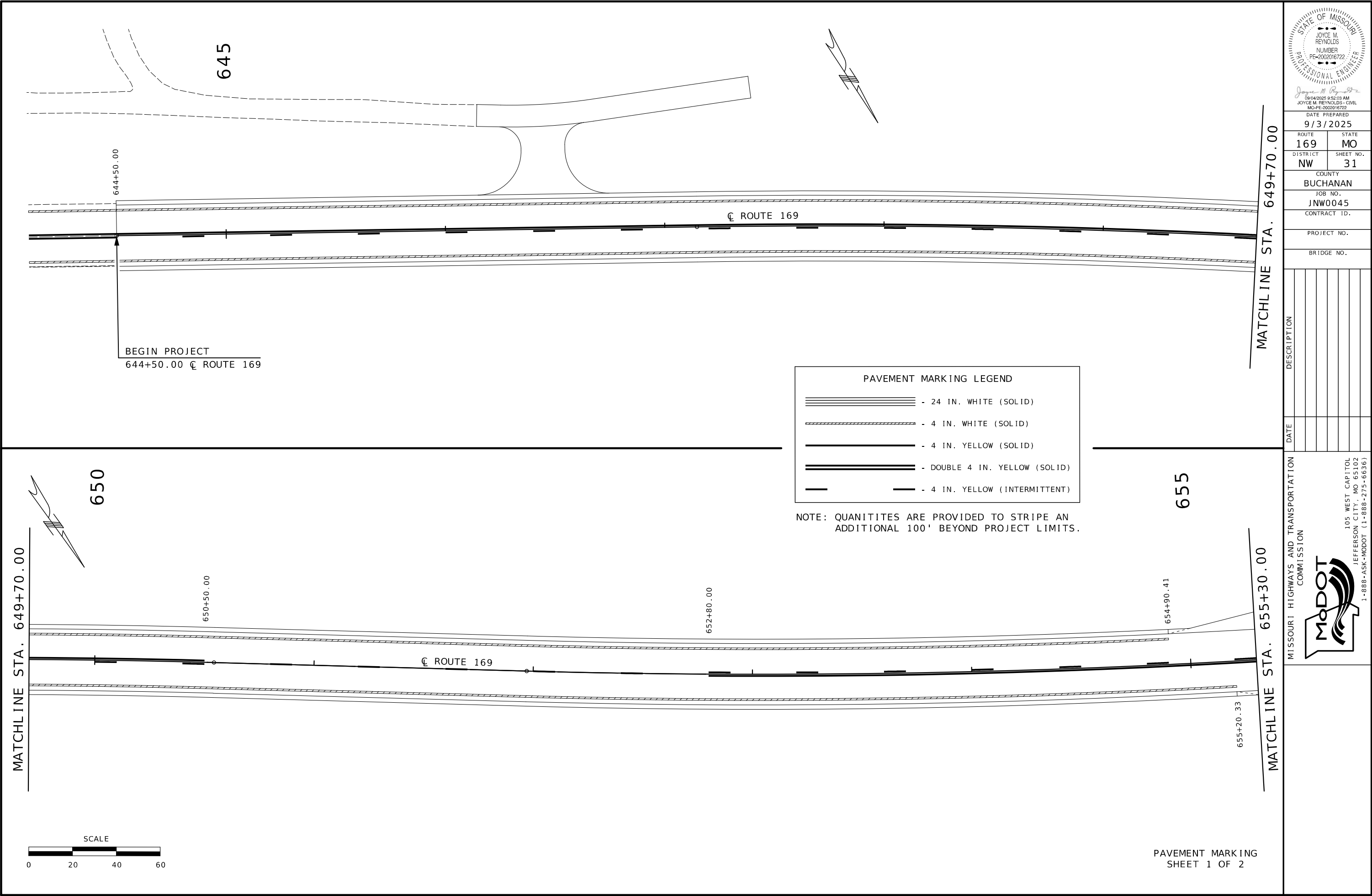
JOB NO.
JNW0045

CONTRACT ID.	
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PROJECT NO.

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COMMISSION

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



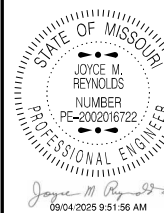
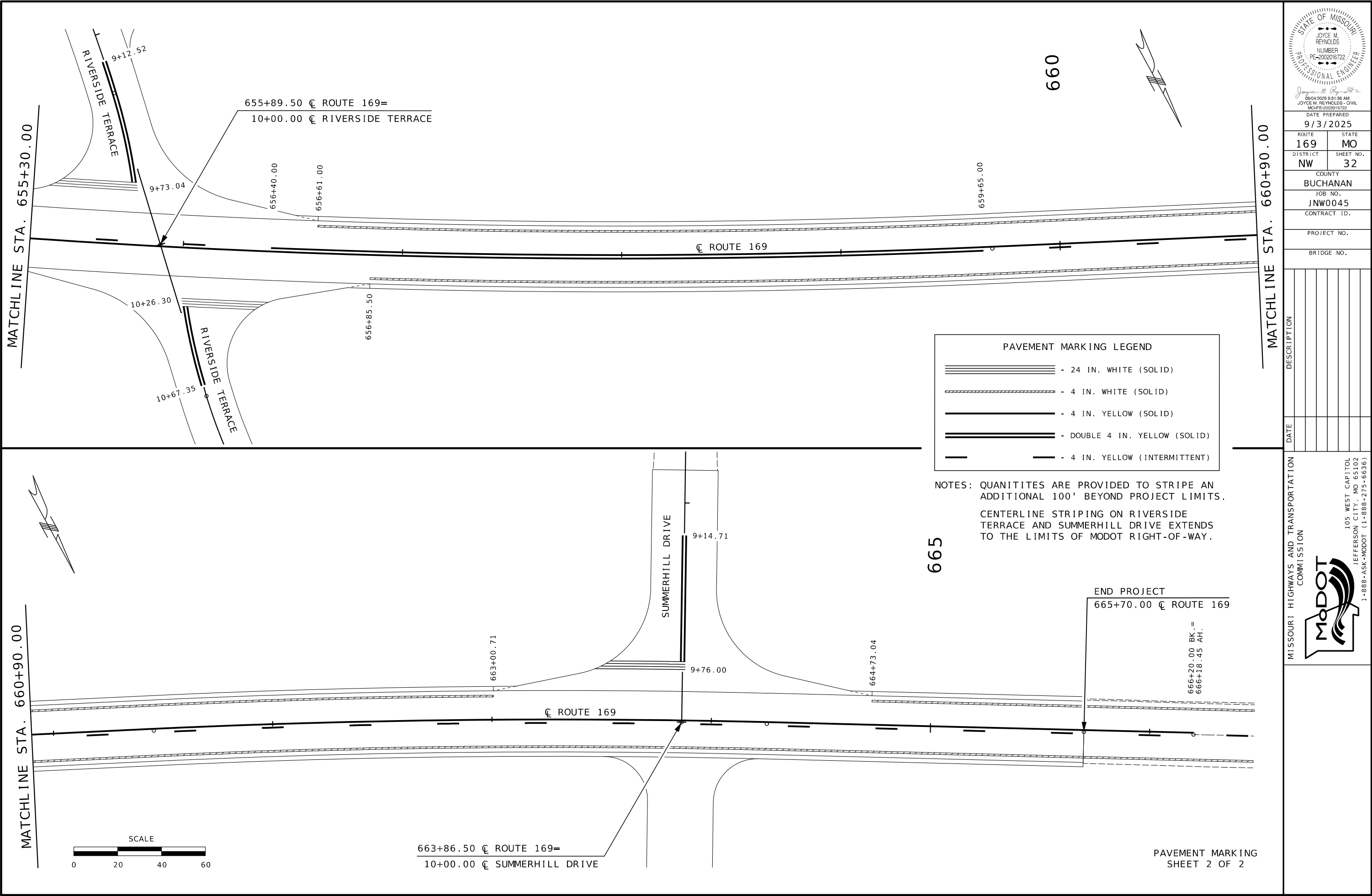
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ROUTE	169	STATE	MO
DISTRICT	NW	SHEET NO.	31
COUNTY			
BUCHANAN			
JOB NO.			
JNW0045			
CONTRACT ID.			
PROJECT NO.			
BRIDGE NO.			

DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION



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



DATE PREPARED
9/3/2025

ROUTE
169

STATE
MO

DISTRICT
NW

SHEET NO.
32

COUNTY
BUCHANAN

JOB NO.
JNW0045

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

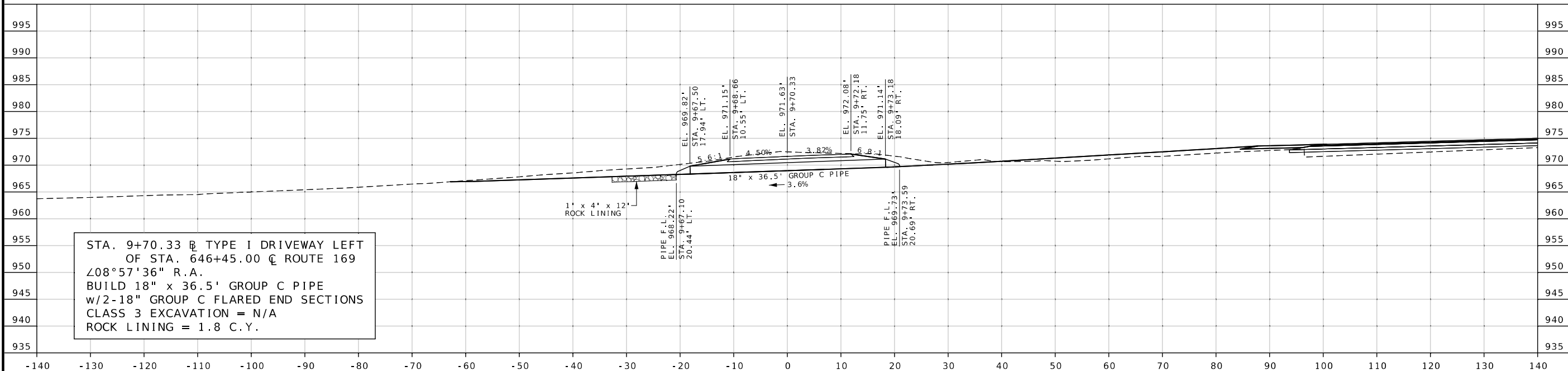
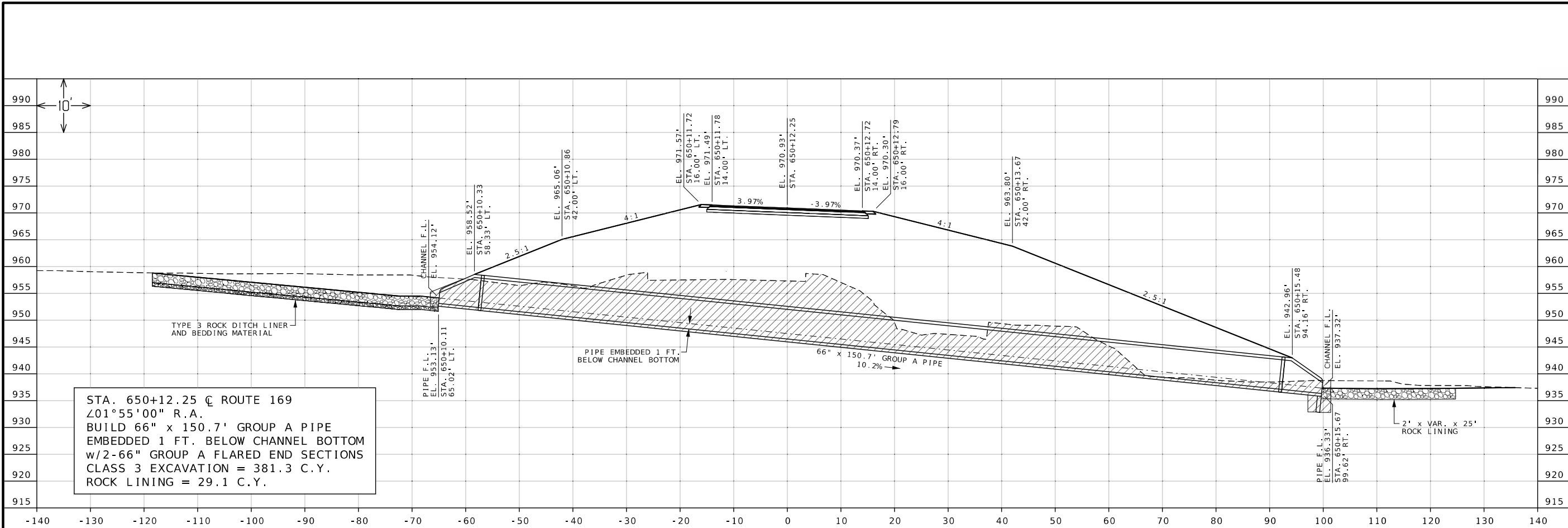
DESCRIPTION

DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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

MoDOT



STATE OF MISSOURI

JOYCE M. REYNOLDS

NUMBER

PE-2002016722

PROFESSIONAL ENGINEER

JOYCE M. REYNOLDS

09/04/2025 9:51:50 AM

JOYCE M. REYNOLDS - CIVIL

MO-PE-2002016722

DATE PREPARED

9/3/2025

ROUTE

169

STATE

MO

DISTRICT

NW

SHEET NO.

33

COUNTY

BUCHANAN

JOB NO.

JNW0045

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

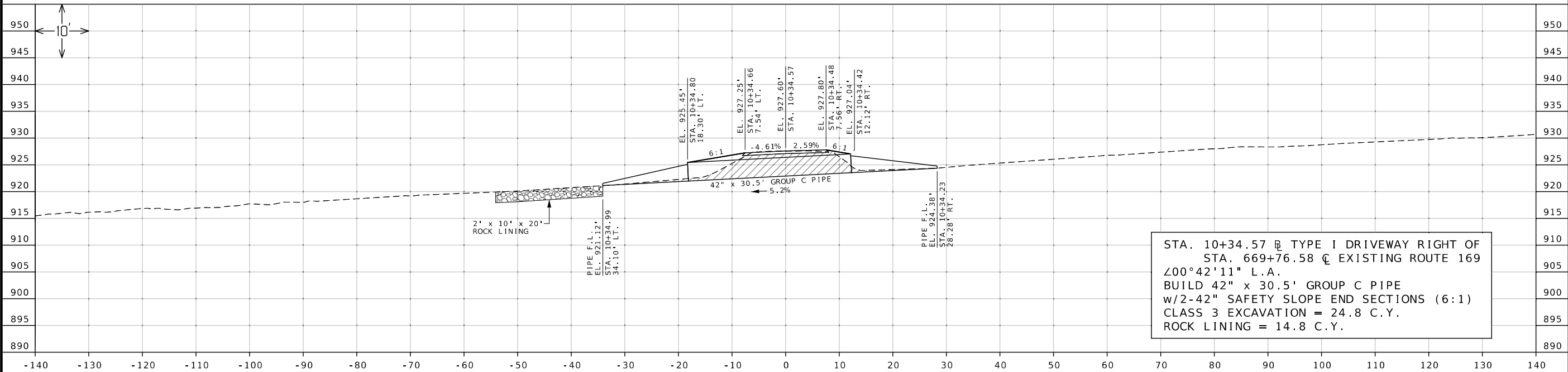
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DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

MODOT

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



CULVERT SECTIONS
SHEET 3 OF 3

STATE OF MISSOURI

JOYCE M. REYNOLDS

NUMBER

PE-2002016722

PROFESSIONAL ENGINEER

JOYCE M. REYNOLDS

09/04/2025 9:51:35 AM

JOYCE M. REYNOLDS - CIVIL

MO-PE-2002016722

DATE PREPARED

9/3/2025

ROUTE

169

DISTRICT

NW

STATE

MO

SHEET NO.

35

COUNTY

BUCHANAN

JOB NO.

JNW0045

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)