

**DESIGN DESIGNATION**

NORTH OUTER RD. (LM 0.000 TO LM 1.054)  
 A.A.D.T. - 2024 = 1084 (PHELPS CO.)  
 V = 55 M.P.H.  
 FUNCTIONAL CLASSIFICATION - LOCAL

NORTH OUTER RD. (LM 0.000 TO LM 5.971)  
 A.A.D.T. - 2024 = 1376 (PHELPS CO.)  
 V = 55 M.P.H.  
 FUNCTIONAL CLASSIFICATION - LOCAL

SOUTH OUTER RD. (LM 0.000 TO LM 5.210)  
 A.A.D.T. - 2024 = 2216 (PHELPS CO.)  
 V = 55 M.P.H.  
 FUNCTIONAL CLASSIFICATION - LOCAL

JAMES BLVD. (LM 0.000 TO LM 1.001)  
 A.A.D.T. - 2024 = 2085 (PHELPS CO.)  
 V = 35/25 M.P.H.  
 FUNCTIONAL CLASSIFICATION - MAJOR COLLECTOR

JAMES BLVD. (LM 1.820 TO LM 2.085)  
 A.A.D.T. - 2024 = 2085 (PHELPS CO.)  
 V = 25 M.P.H.  
 FUNCTIONAL CLASSIFICATION - MAJOR COLLECTOR

NORTH OUTER RD. (LM 0.000 TO LM 1.083)  
 A.A.D.T. - 2024 = 138 (PHELPS CO.)  
 V = 55 M.P.H.  
 FUNCTIONAL CLASSIFICATION - LOCAL

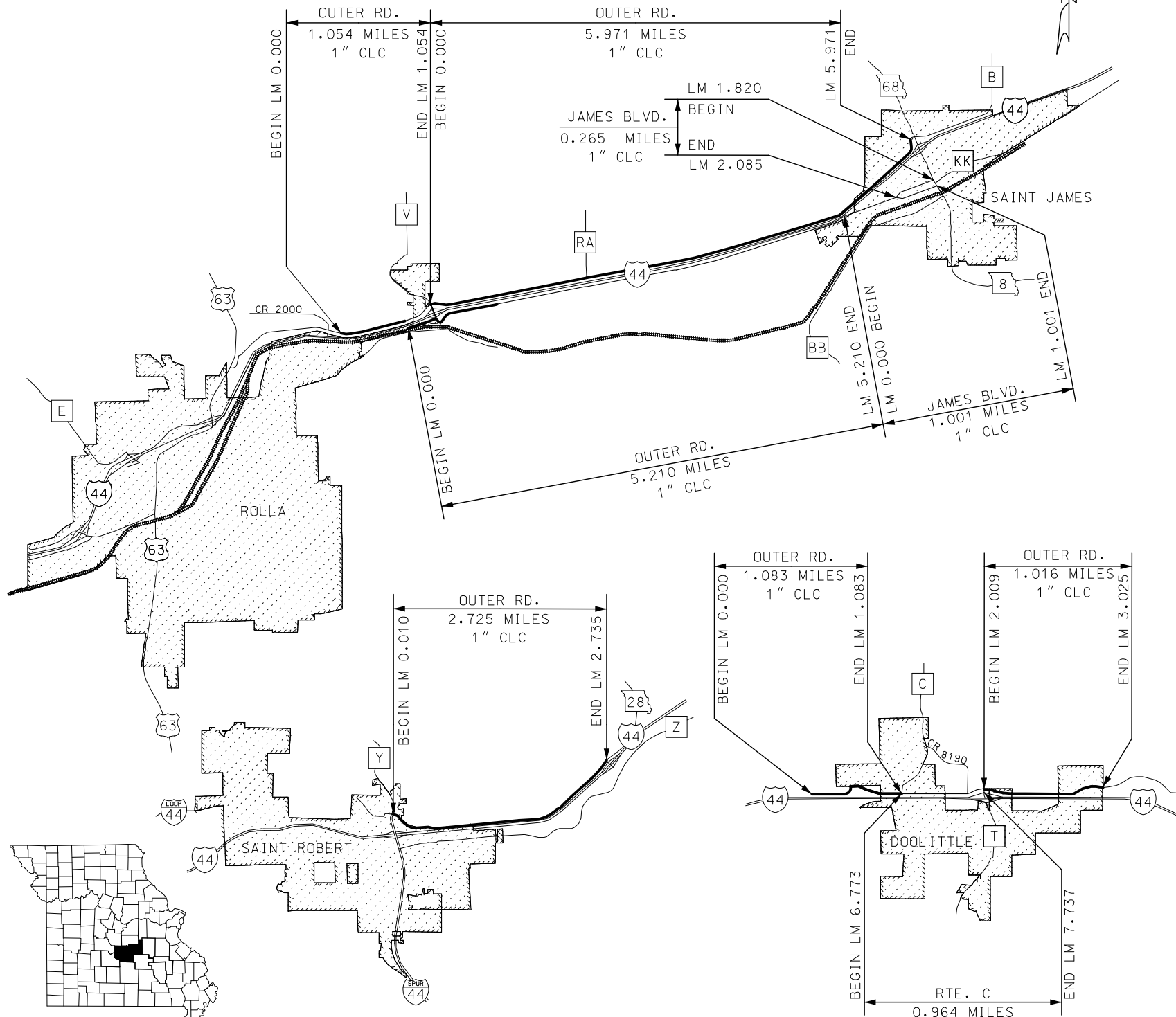
ROUTE C (6.773 TO LM 7.737)  
 A.A.D.T. - 2024 = 434 (PHELPS CO.)  
 V = 55 M.P.H.  
 FUNCTIONAL CLASSIFICATION - MINOR COLLECTOR

NORTH OUTER RD. (LM 2.009 TO LM 3.025)  
 A.A.D.T. - 2024 = 138 (PHELPS CO.)  
 V = 55 M.P.H.  
 FUNCTIONAL CLASSIFICATION - LOCAL

NORTH OUTER RD. (LM 0.010 TO LM 2.735)  
 A.A.D.T. - 2024 = 422 (PULASKI CO.)  
 V = 55 M.P.H.  
 FUNCTIONAL CLASSIFICATION - LOCAL

**NO NEW RIGHT OF WAY**

**MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION  
 PLANS FOR PROPOSED  
 STATE HIGHWAY  
 PHELPS & PULASKI COUNTIES**



**KEY MAP  
 LOCATION OF PHELPS  
 & PULASKI COUNTIES**

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.

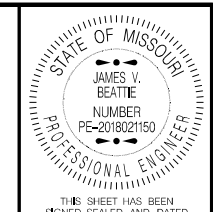
NOT TO SCALE

**INDEX OF SHEETS**

DESCRIPTION	SHEET NUMBER
TITLE SHEET	1
TYPICAL SECTIONS (TS) (6 SHEETS)	2
QUANTITIES (QU) (8 SHEETS)	3
SPECIAL SHEETS (SS)	4-17
TRAFFIC CONTROL SHEETS (TC)	18-22
BRIDGE DRAWINGS	
A42831	1
R05621	1-5

**LENGTH OF PROJECT**

N. OUTER RD. (CR 2000 TO RTE. V)	BEGINNING OF PROJECT	LOG MILE 0.000	END OF PROJECT	LOG MILE 1.054	APPARENT LENGTH	1.054 MILES	EQUATIONS AND EXCEPTIONS: NONE
N. OUTER RD. (NORTH OUTER (RTE. V TO RTE. 68)	BEGINNING OF PROJECT	LOG MILE 0.000	END OF PROJECT	LOG MILE 5.971	APPARENT LENGTH	5.971 MILES	EQUATIONS AND EXCEPTIONS: NONE
S. OUTER RD. (SME TO RTE. V TO JAMES BLVD.)	BEGINNING OF PROJECT	LOG MILE 0.000	END OF PROJECT	LOG MILE 5.210	APPARENT LENGTH	5.210 MILES	EQUATIONS AND EXCEPTIONS: NONE
JAMES BLVD. EAST (S. OUTER RD. TO RTE. 8/68)	BEGINNING OF PROJECT	LOG MILE 0.000	END OF PROJECT	LOG MILE 1.001	APPARENT LENGTH	1.001 MILES	EQUATIONS AND EXCEPTIONS: NONE
JAMES BLVD. WEST (RTE. 8/68 TO JAMES BLVD. EAST)	BEGINNING OF PROJECT	LOG MILE 1.820	END OF PROJECT	LOG MILE 2.085	APPARENT LENGTH	0.265 MILES	EQUATIONS AND EXCEPTIONS: NONE
N. OUTER (SME THRU DOOLITTLE)	BEGINNING OF PROJECT	LOG MILE 0.000	END OF PROJECT	LOG MILE 1.083	APPARENT LENGTH	1.083 MILES	EQUATIONS AND EXCEPTIONS: NONE
ROUTE C (N. OUTER RD (DOOLITTLE) TO RTE. T)	BEGINNING OF PROJECT	LOG MILE 6.773	END OF PROJECT	LOG MILE 7.737	APPARENT LENGTH	0.964 MILES	EQUATIONS AND EXCEPTIONS: NONE
N. OUTER RD (EAST OF RTE C)	BEGINNING OF PROJECT	LOG MILE 2.009	END OF PROJECT	LOG MILE 3.025	APPARENT LENGTH	1.016	EQUATIONS AND EXCEPTIONS: NONE
N. OUTER RD (PULASKI COUNTY/RTE Y TO RTE 28)	BEGINNING OF PROJECT	LOG MILE 0.010	END OF PROJECT	LOG MILE 2.735	APPARENT LENGTH	2.725	EQUATIONS AND EXCEPTIONS: NONE
TOTAL CORRECTIONS					-0.00 FEET		
NET LENGTH OF PROJECT					101,845.92 FEET		
STATE LENGTH					19.289 MILES		
FOR INFORMATION ONLY							
ESTIMATED DISTURBED ACRES					0 ACRES		



DATE PREPARED  
 8/22/2024

ROUTE VARIOUS  
 STATE MO  
 DISTRICT CD  
 SHEET NO. 1

COUNTY  
 PHELPS/PULASKI

JOB NO.  
 JCD0085

CONTRACT ID.

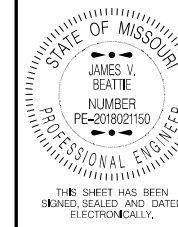
PROJECT NO.

BRIDGE NO.

DESCRIPTION	DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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



DATE PREPARED  
8/22/2024

ROUTE VARIOUS STATE MO  
DISTRICT CD SHEET NO. 2

COUNTY  
PHELPS/PULASKI

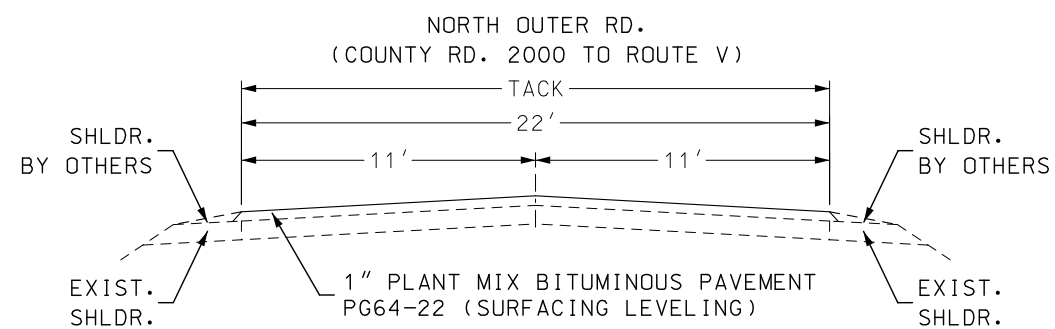
JOB NO.  
JCD0085  
CONTRACT ID.

PROJECT NO.

BRIDGE NO.

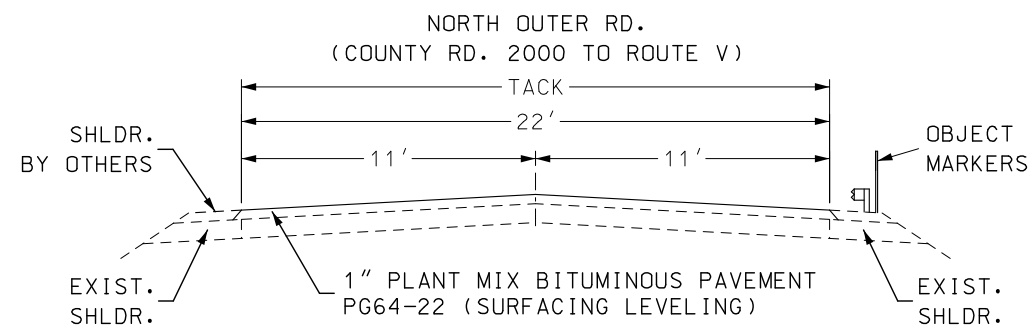
DESCRIPTION	DATE

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



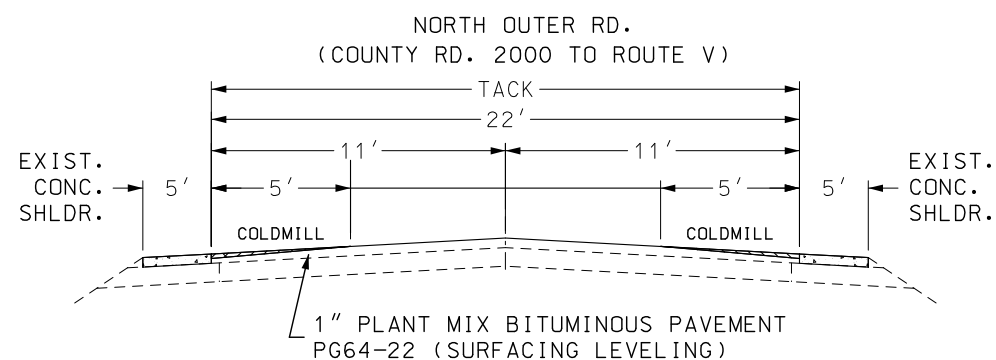
TYPICAL SECTION

NORTH OUTER ROAD  
LM 0.000 TO LM 0.659  
LM 0.798 TO LM 0.962



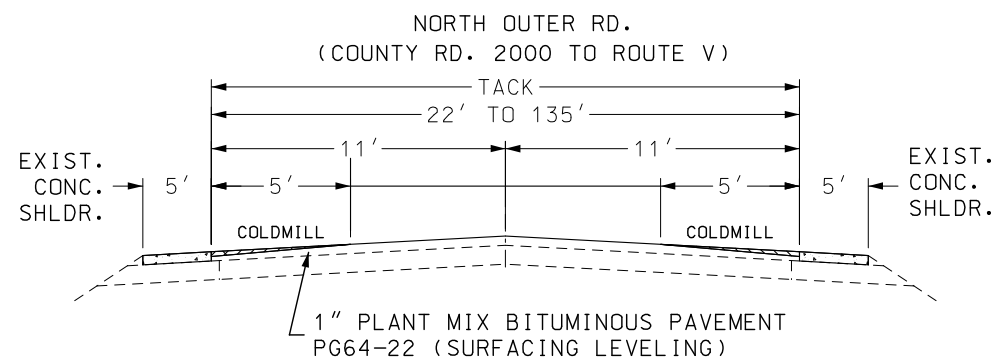
TYPICAL SECTION

NORTH OUTER ROAD  
LM 0.659 TO LM 0.798



TYPICAL SECTION

NORTH OUTER ROAD  
LM 0.962 TO LM 1.038



TYPICAL SECTION

NORTH OUTER ROAD  
LM 1.038 TO LM 1.054

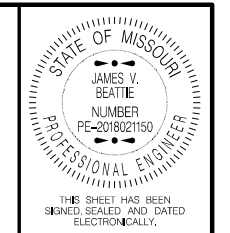
BITUMINOUS PAVEMENT MIXTURE PG64-22 (SURFACE LEVELING)	1.987 TONS/YD <sup>3</sup>
TACK COAT (SURFACE LEVELING)	0.08 GAL/YD <sup>2</sup>
TACK COAT (COLDMILLING ASPHALT)	0.10 GAL/YD <sup>2</sup>

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

NOT TO SCALE

TYPICAL SECTIONS  
N. OUTER RD.  
CO. RD. 2000 TO RTE. V  
SHEET 1 OF 6





DATE PREPARED  
9/18/2024

ROUTE VARIOUS STATE MO  
DISTRICT CD SHEET NO. 2

COUNTY  
PHELPS/PULASKI

JOB NO.  
JCD0085

CONTRACT ID.

PROJECT NO.

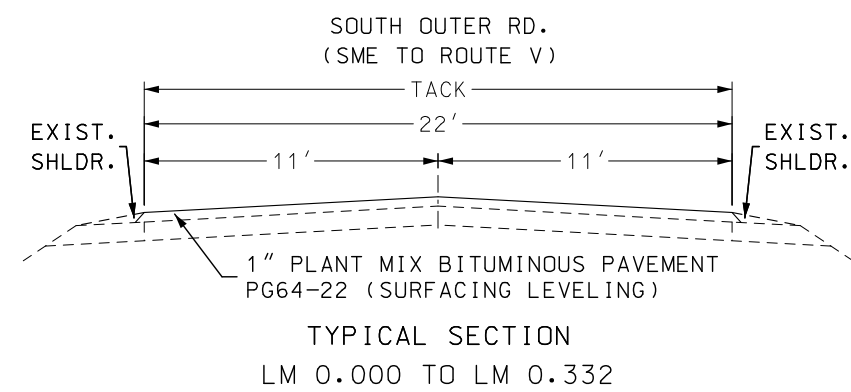
BRIDGE NO.

DATE	DESCRIPTION

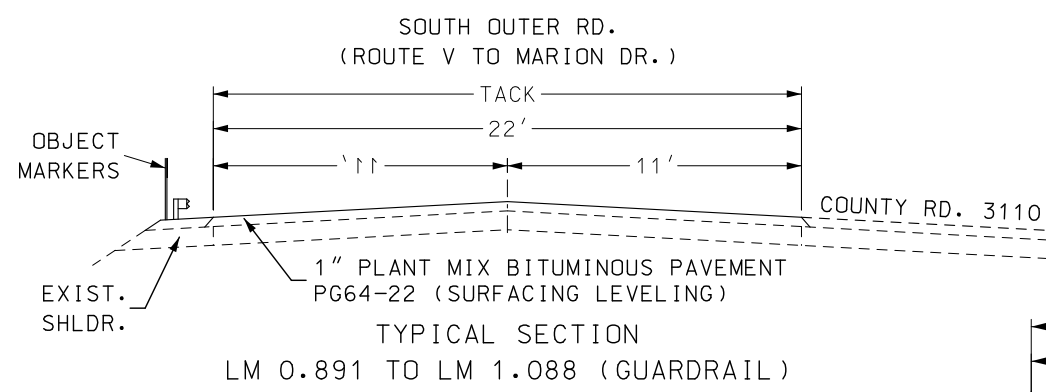
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION



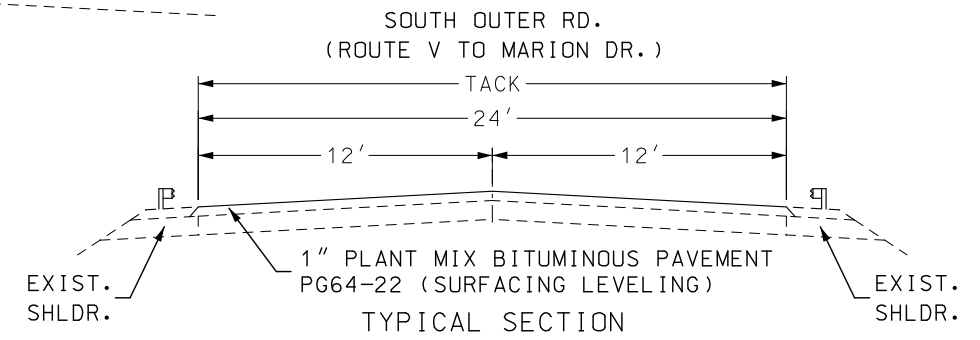
105 WEST CAPITOL  
JEFFERSON CITY, MO 65102  
1-888-ASK-MODOT (1-888-275-6636)



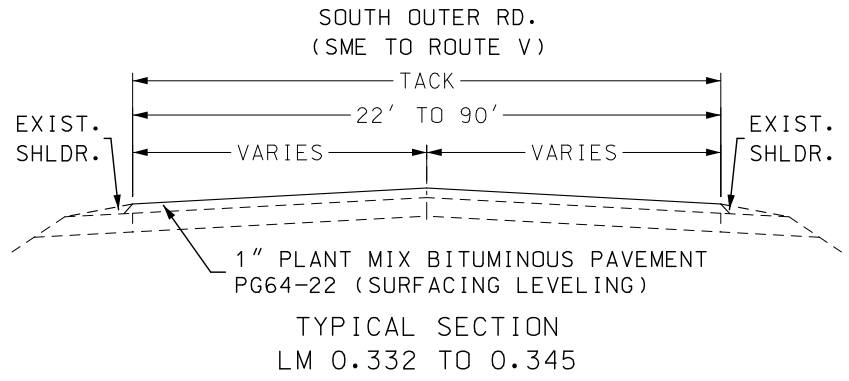
TYPICAL SECTION  
LM 0.000 TO LM 0.332



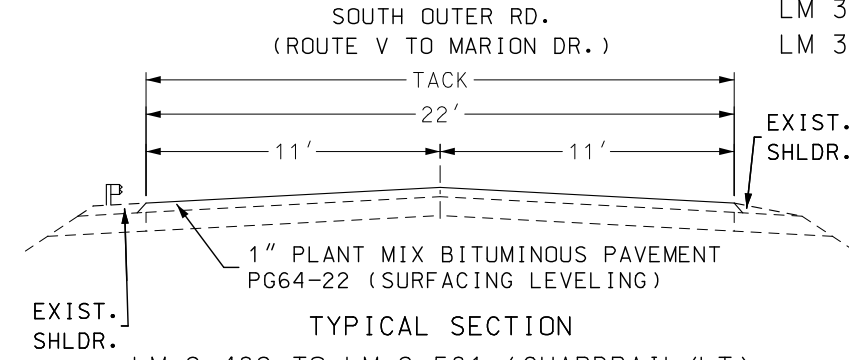
TYPICAL SECTION  
LM 0.891 TO LM 1.088 (GUARDRAIL)



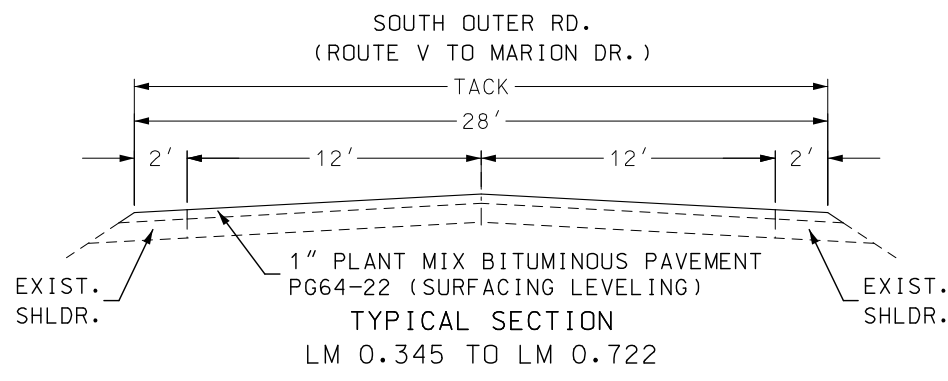
TYPICAL SECTION  
LM 3.932 TO LM 3.936 (GUARDRAIL/RT & LT/) (BRIDGE APPROACH)  
LM 3.942 TO LM 3.946 (GUARDRAIL/RT & LT/) (BRIDGE APPROACH)



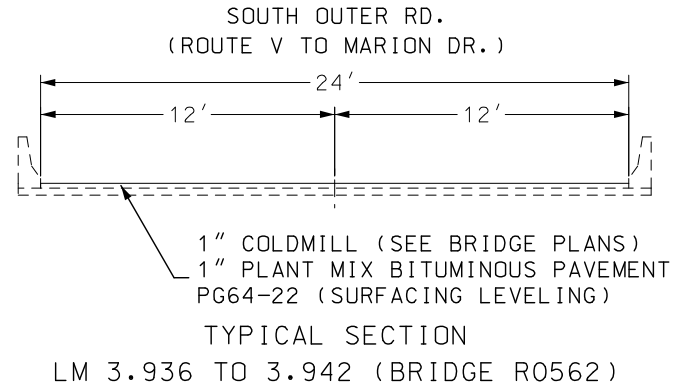
TYPICAL SECTION  
LM 0.332 TO 0.345



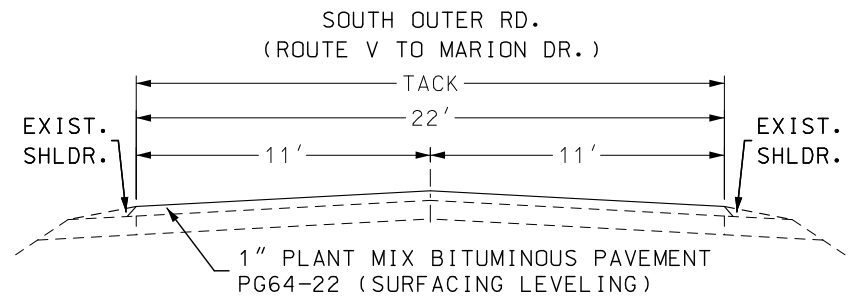
TYPICAL SECTION  
LM 2.482 TO LM 2.581 (GUARDRAIL/LT)  
LM 3.002 TO LM 3.102 (GUARDRAIL/LT)  
LM 3.966 TO LM 4.202 (GUARDRAIL/LT)  
LM 4.760 TO LM 4.880 (GUARDRAIL/LT)



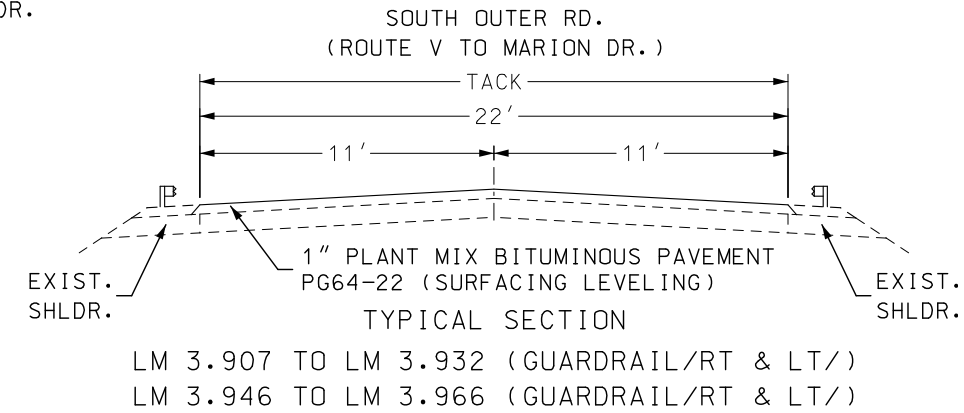
TYPICAL SECTION  
LM 0.345 TO LM 0.722



TYPICAL SECTION  
LM 3.936 TO 3.942 (BRIDGE R0562)



TYPICAL SECTION  
LM 0.722 TO LM 0.891  
LM 1.088 TO LM 2.482  
LM 2.581 TO LM 3.002  
LM 3.102 TO LM 3.907  
LM 4.202 TO LM 4.760  
LM 4.880 TO LM 5.210



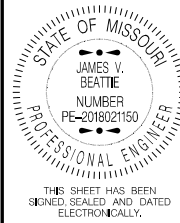
TYPICAL SECTION  
LM 3.907 TO LM 3.932 (GUARDRAIL/RT & LT/)  
LM 3.946 TO LM 3.966 (GUARDRAIL/RT & LT/)

BITUMINOUS PAVEMENT MIXTURE PG64-22 (SURFACE LEVELING)	1.987 TONS/YD <sup>3</sup>
TACK COAT (SURFACE LEVELING)	0.08 GAL/YD <sup>2</sup>
TACK COAT (COLDMILLING ASPHALT)	0.10 GAL/YD <sup>2</sup>

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

NOT TO SCALE

TYPICAL SECTIONS  
S. OUTER RD.  
W. OF RTE V TO MARION DR  
SHEET 3 OF 6

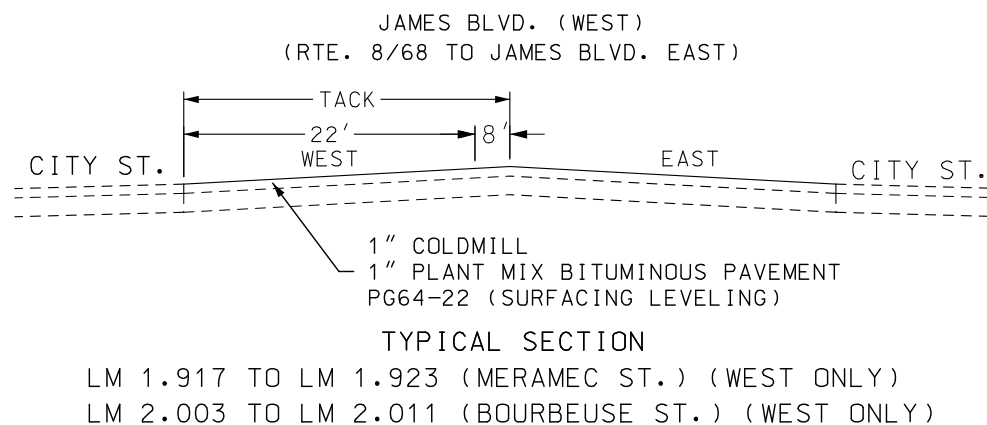
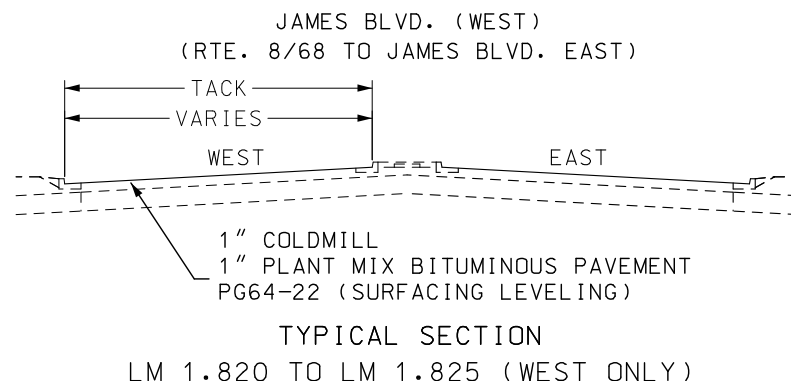
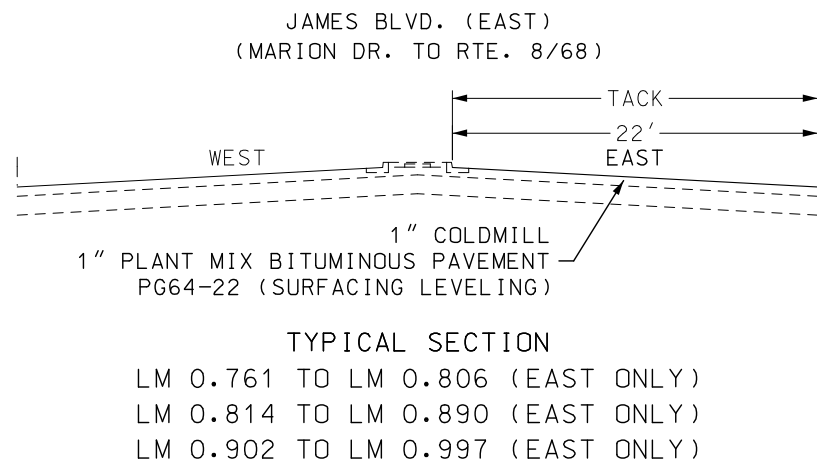
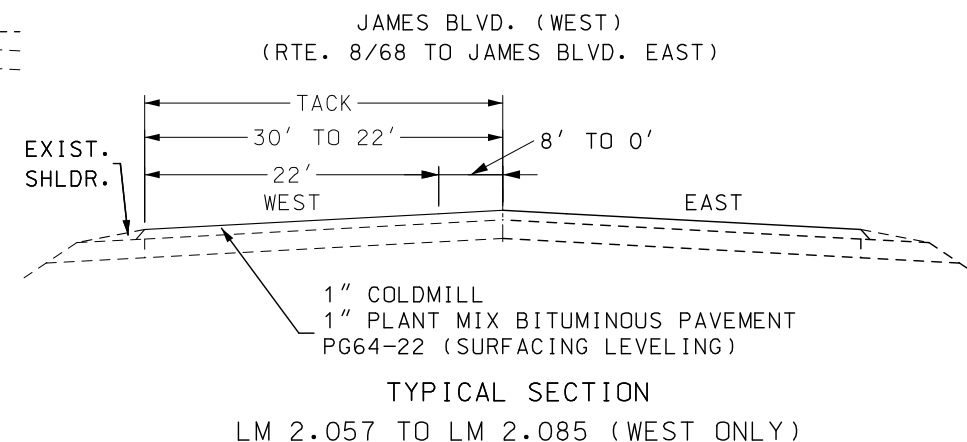
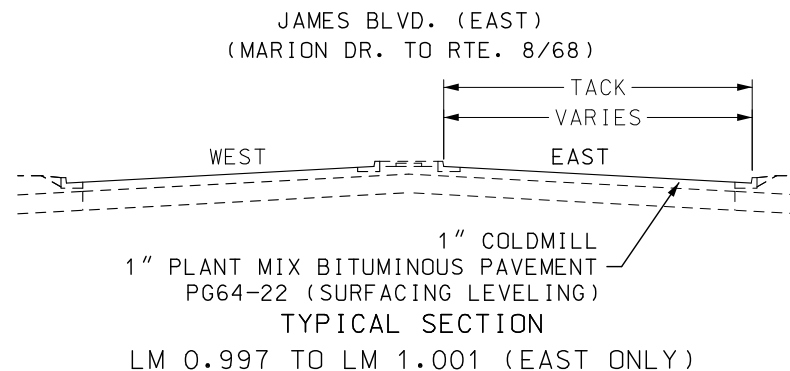
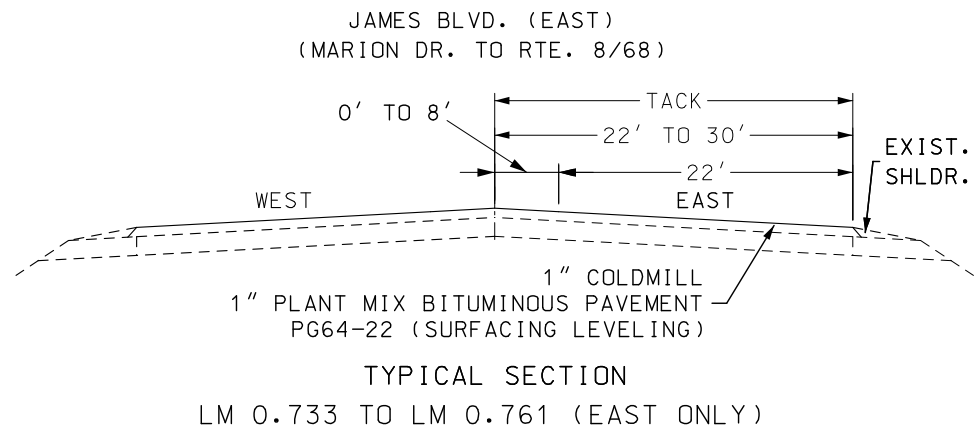
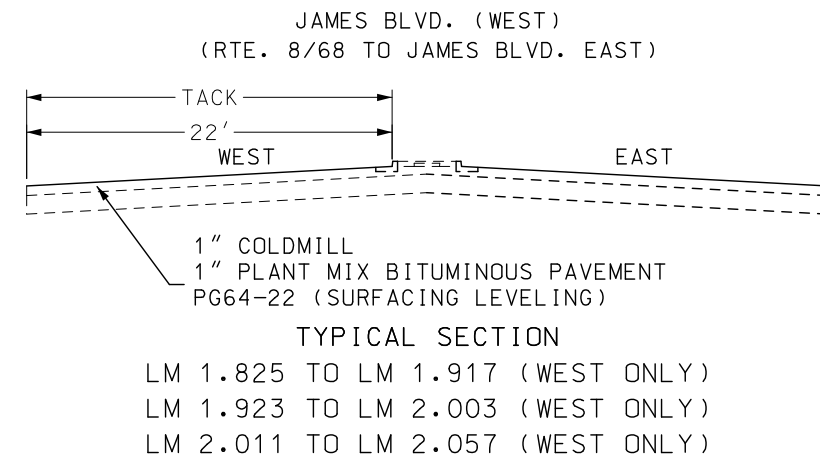
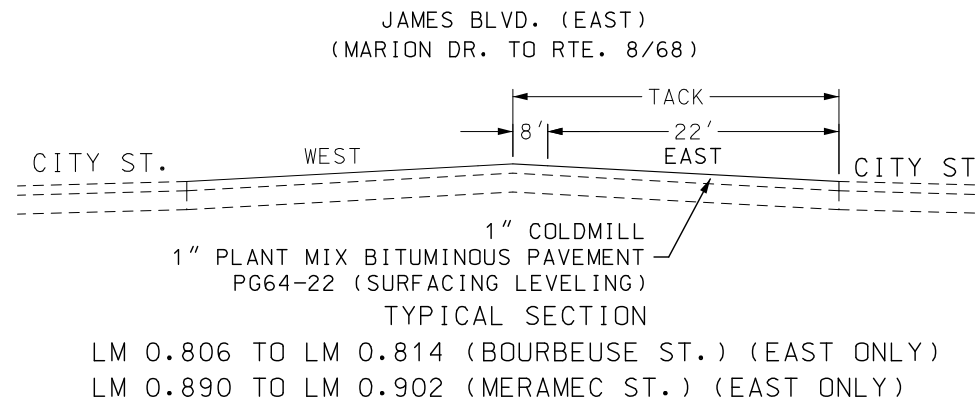
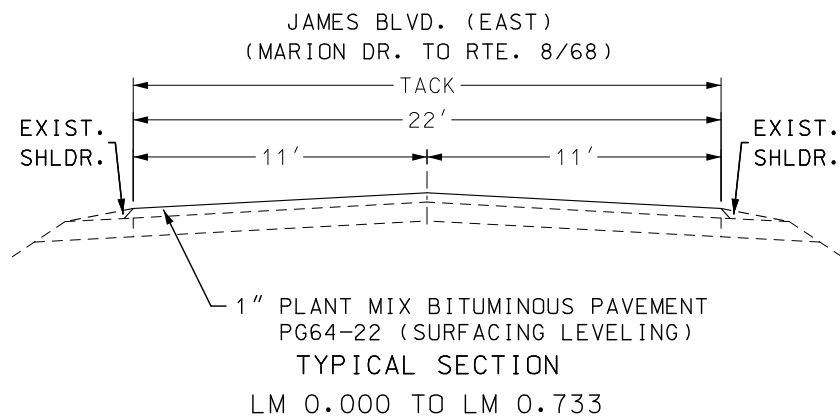


DATE PREPARED 9/18/2024	
ROUTE VARIOUS	STATE MO
DISTRICT CD	SHEET NO. 2
COUNTY PHELPS/PULASKI	
JOB NO. JCD0085	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

DESCRIPTION	DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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

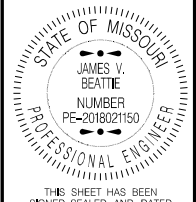


NOTES:  
THE FINISHED EDGE OF PAVEMENT SHALL BE FLUSH WITH PEDESTRIAN FACILITY CURB RAMPS AND SIDEWALKS AT CROSSWALKS.  
VERIFY LOCATIONS IN THE FIELD BEFORE INSTALLATION.  
SURFACE PLACEMENT SHALL BE ONE PASS PER LANE  
NO S.E. CORRECTION.

BITUMINOUS PAVEMENT MIXTURE PG64-22 (SURFACE LEVELING)	1.987 TONS/YD <sup>3</sup>
TACK COAT (SURFACE LEVELING)	0.08 GAL/YD <sup>2</sup>
TACK COAT (COLDMILLING ASPHALT)	0.10 GAL/YD <sup>2</sup>

TYPICAL SECTIONS  
JAMES BLVD.  
MARION DR. TO RTE. 8/68  
SHEET 4 OF 6

NOT TO SCALE



DATE PREPARED  
8/22/2024

ROUTE STATE  
VARIOUS MO

DISTRICT SHEET NO.  
CD 2

COUNTY  
PHELPS/PULASKI

JOB NO.  
JCD0085

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

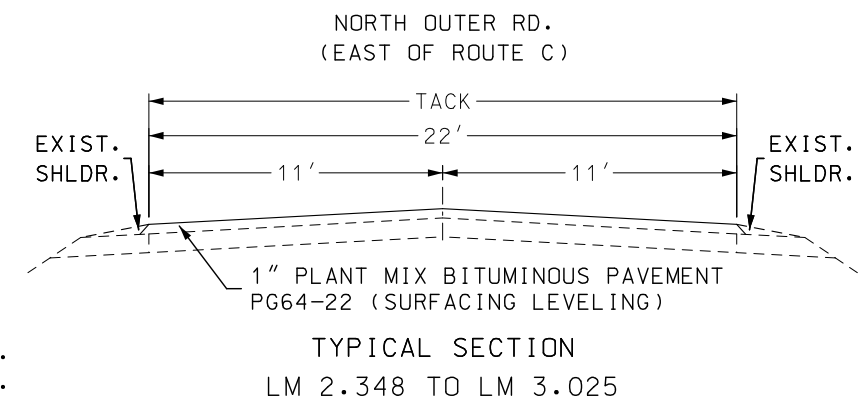
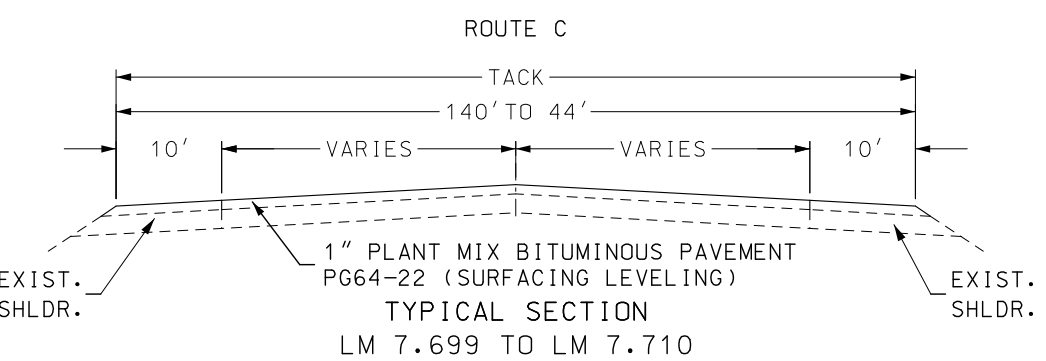
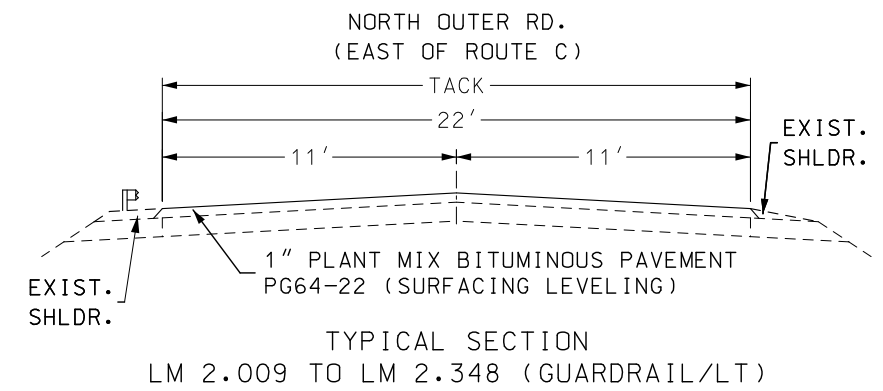
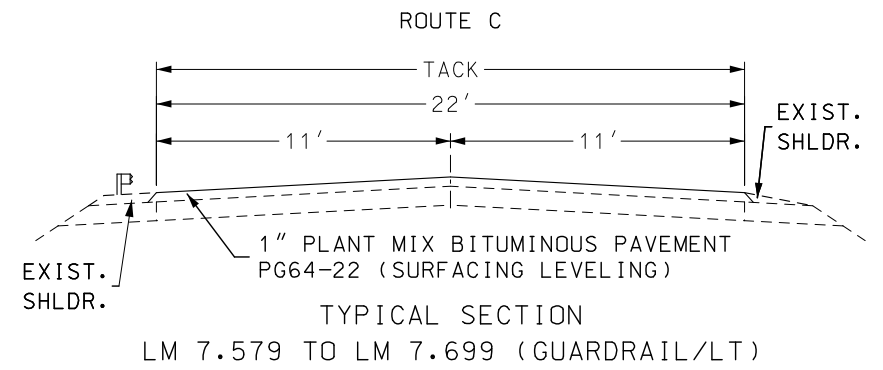
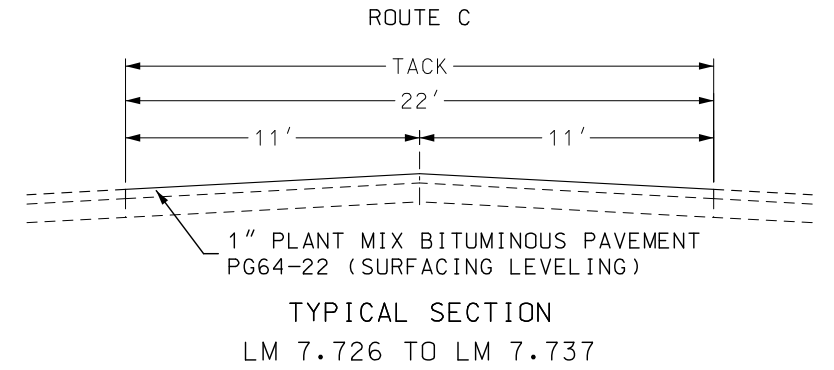
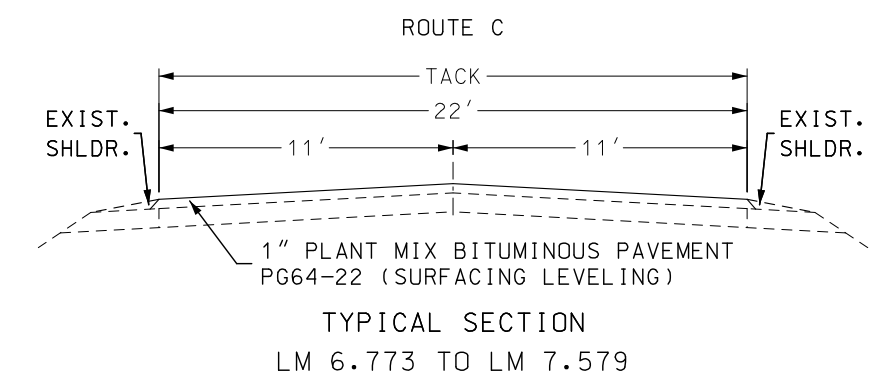
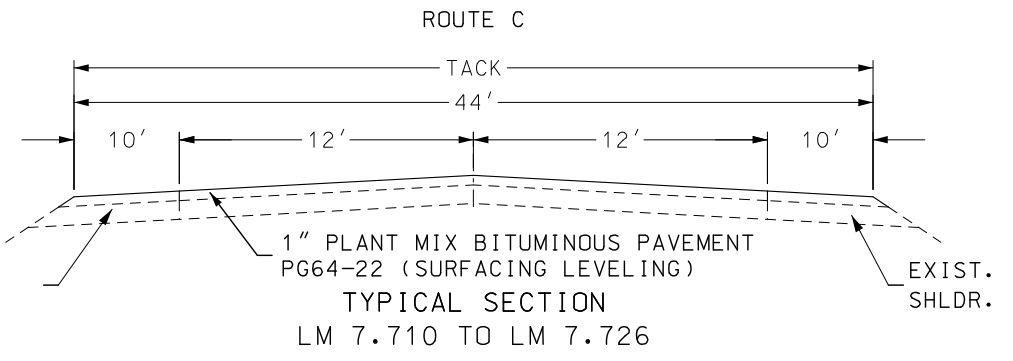
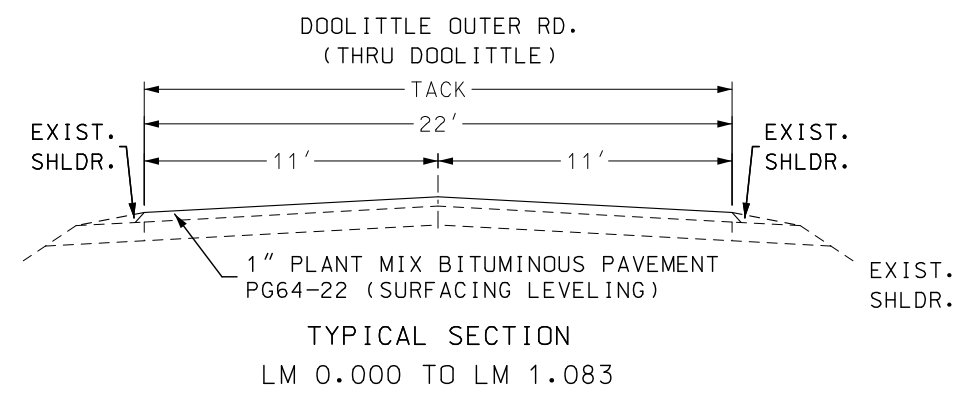
DATE	DESCRIPTION

DATE

DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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

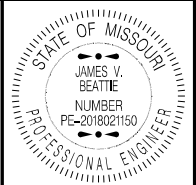


BITUMINOUS PAVEMENT MIXTURE PG64-22 (SURFACE LEVELING)	1.987 TONS/YD <sup>3</sup>
TACK COAT (SURFACE LEVELING)	0.08 GAL/YD <sup>2</sup>
TACK COAT (COLDMILLING ASPHALT)	0.10 GAL/YD <sup>2</sup>

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

NOT TO SCALE

TYPICAL SECTIONS  
DOOLITTLE OUTER RD.  
RTE. C & NORTH OUTER RD.  
SHEET 5 OF 6



THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED  
8/22/2024

ROUTE VARIOUS STATE MO

DISTRICT CD SHEET NO. 2

COUNTY PHELPS/PULASKI

JOB NO. JCD0085

CONTRACT ID.

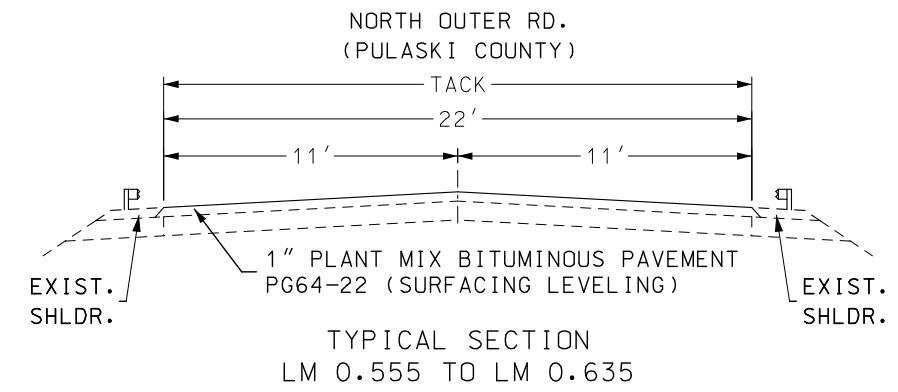
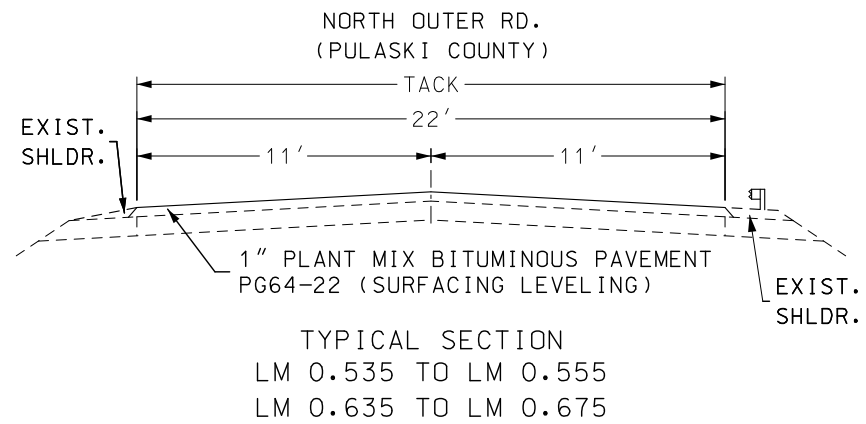
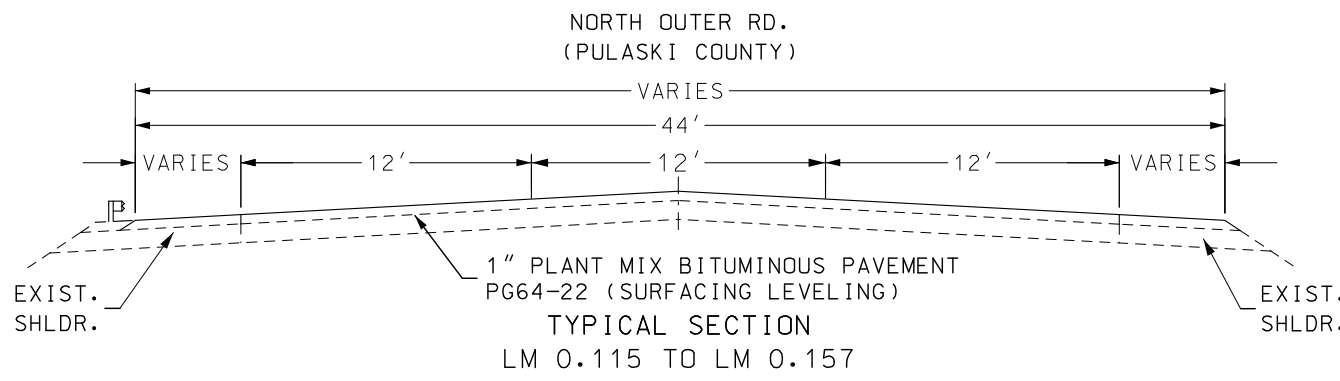
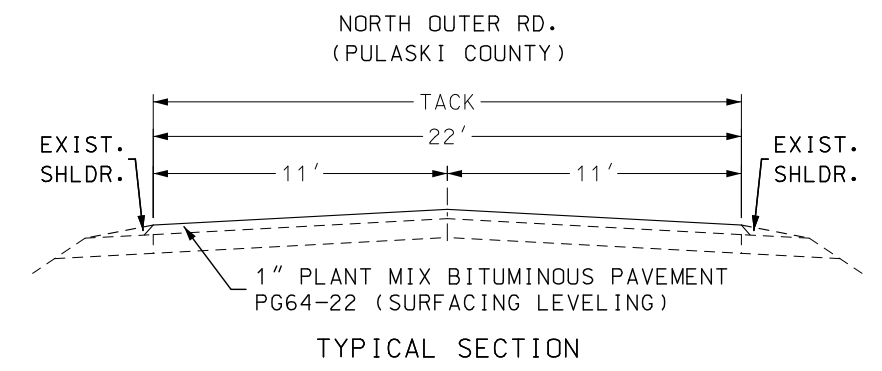
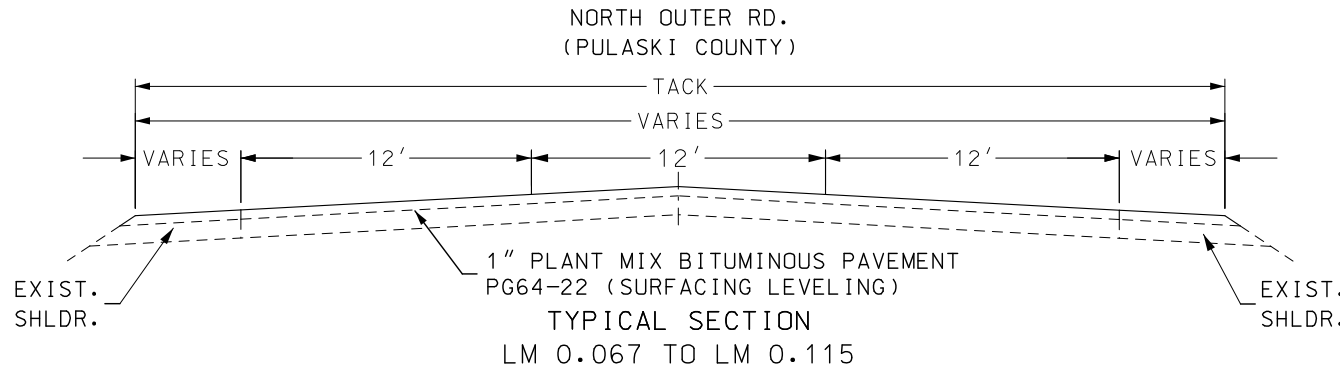
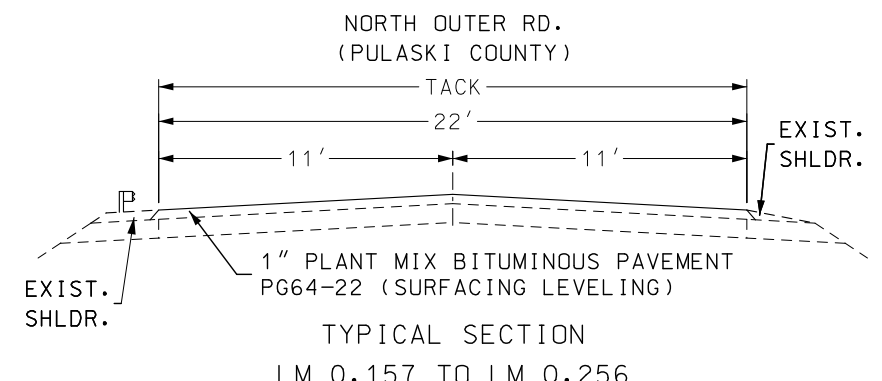
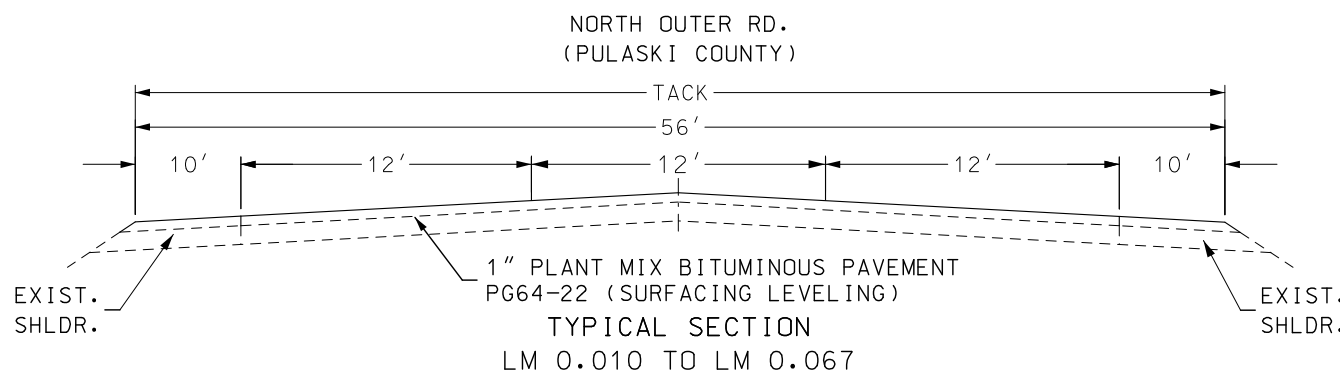
PROJECT NO.

BRIDGE NO.

DESCRIPTION	DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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



BITUMINOUS PAVEMENT MIXTURE PG64-22 (SURFACE LEVELING)	1.987 TONS/YD <sup>3</sup>
TACK COAT (SURFACE LEVELING)	0.08 GAL/YD <sup>2</sup>
TACK COAT (COLDMILLING ASPHALT)	0.10 GAL/YD <sup>2</sup>

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

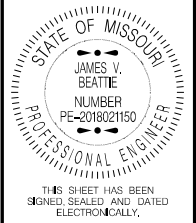
NOT TO SCALE

1" SURFACE LEVELING (PG64-22)								
LOG MILE	LOG MILE	LOCATION	LENGTH (FT)	WIDTH (FT)	AREA (SY)	1" SURFACE LEVELING (PG64-22) (1.987 TON/CY)	TACK (GAL)	REMARKS
N. OUTER RD. (EAST OF RTE. C)								
2.009	3.025	N. OUTER RD.	5364.48	22	13113.2	723.78	1049.06	N. OUTER RD. EAST OF RTE. C
						180.95		25% FOR IRREGULARITIES
		N. OUTER RD.			358.11	19.77	28.65	COUNTY RD., ENTRANCES, & MAILBOXES
					SUB-TOTAL	924.50	1077.71	
					USE	924.5	1078	
SEE TYPICAL SECTIONS FOR ESTIMATE FACTORS								

1" SURFACE LEVELING (PG64-22)								
LOG MILE	LOG MILE	LOCATION	LENGTH (FT)	WIDTH (FT)	AREA (SY)	1" SURFACE LEVELING (PG64-22) (1.987 TON/CY)	TACK (GAL)	REMARKS
NORTH OUTER RD. (RTE. V TO RTE. 68)								
0.000	0.014	N. OUTER RD.	73.92	VARIES	351.7	19.41	28.1	BEGIN AT RTE. V
0.014	3.590	N. OUTER RD.	18881.28	22	46154.2	2547.46	3692.3	
3.590	3.594	N. OUTER RD.	21.12	30	70.4	3.89	5.6	BRIDGE APPROACH
3.594	3.607	N. OUTER RD.	68.64	30	228.8	12.63	18.3	BRIDGE A4283
3.607	3.611	N. OUTER RD.	21.12	30	70.4	3.89	5.6	BRIDGE APPROACH
3.611	4.502	N. OUTER RD.	4704.48	22	11499.8	634.73	920.0	
4.502	5.923	N. OUTER RD.	7502.88	26	21674.99	1196.34	1734.0	26' ROAD WIDTH
5.923	5.943	N. OUTER RD.	105.60	VARIES	429.12	23.69	34.3	
5.943	5.962	N. OUTER RD.	100.32	45	501.60	27.69	40.1	
5.962	5.971	N. OUTER RD.	47.52	VARIES	273.80	15.11	21.9	END AT PARKER LANE / RTE. 68
						641.72		25% FOR IRREGULARITIES
1.773	1.798	N. OUTER RD.		VARIES	333	18.38	26.6	RTE. RA
0.752	0.773	N. OUTER RD.		VARIES	21.1	1.16	1.7	CR 2170
2.799	2.816	N. OUTER RD.		VARIES	19	1.05	1.5	CR 2210
3.200	3.221	N. OUTER RD.		VARIES	23	1.27	1.8	CR 2250
3.845	3.864	N. OUTER RD.		VARIES	21	1.16	1.7	CR 2290
5.149	5.161	N. OUTER RD.		VARIES	146.15	8.07	11.7	N. LOUISE AVE.
		N. OUTER RD.		VARIES	1596.1	88.10	127.7	ENTRANCES & MAILBOXES
					SUB-TOTAL	5245.75	6672.9	
					USE	5245.8	6673	
SEE TYPICAL SECTIONS FOR ESTIMATE FACTORS								

1" SURFACE LEVELING (PG64-22)								
LOG MILE	LOG MILE	LOCATION	LENGTH (FT)	WIDTH (FT)	AREA (SY)	1" SURFACE LEVELING (PG64-22) (1.987 TON/CY)	TACK (GAL)	REMARKS
NORTH OUTER RD. (CR 2000 TO RTE. V)								
0.000	1.038	N. OUTER RD.	5480.64	22	13397.1	739.45	1071.8	BEGIN AT CO. RD. 2000
1.038	1.054	N. OUTER RD.	84.48	VARIES	446.3	24.63	35.7	END AT RTE. V
						191.02		25% FOR IRREGULARITIES
0.667	0.690	N. OUTER RD.			25	1.38	2.0	CR 2070
		N. OUTER RD.				85.00	123.6	ENTRANCES & MAILBOXES
					SUB-TOTAL	1041.48	1233.1	
					USE	1041.5	1233	
SEE TYPICAL SECTIONS FOR ESTIMATE FACTORS								

1" SURFACE LEVELING (PG64-22)								
LOG MILE	LOG MILE	LOCATION	LENGTH (FT)	WIDTH (FT)	AREA (SY)	1" SURFACE LEVELING (PG64-22) (1.987 TON/CY)	TACK (GAL)	REMARKS
N. OUTER RD. (THRU DOOLITTLE)								
0.000	1.083		5718.24	22	13977.9	771.50	1118.23	Outer Rd. thru Doolittle (TWID 277723)
						192.88		25% FOR IRREGULARITIES
					121.7	6.72	9.74	ENTRANCES & MAILBOXES
					SUB-TOTAL	971.10	1127.97	
					USE	971.1	1128	
SEE TYPICAL SECTIONS FOR ESTIMATE FACTORS								



DATE PREPARED  
8/22/2024

ROUTE STATE  
VARIOUS MO

DISTRICT SHEET NO.  
CD 3

COUNTY  
PHELPS/PULASKI

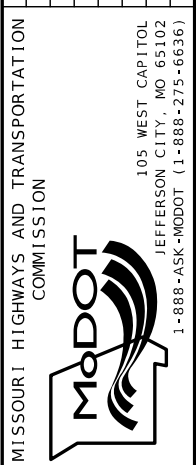
JOB NO.  
JCD0085

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DATE	DESCRIPTION





1" SURFACE LEVELING (PG64-22)								
LOG MILE	LOG MILE	LOCATION	LENGTH (FT)	WIDTH (FT)	AREA (SY)	1" SURFACE LEVELING (PG64-22) (1.987 TON/CY)	TACK (GAL)	REMARKS
SOUTH OUTER RD. (WEST OF RTE. V TO MARION DRIVE)								
0.000	0.332	S. OUTER RD.	1752.96	22	4285.01	236.51	342.8	BEGIN S. OUTER RD. (SME TO RTE. V)
0.332	0.345	S. OUTER RD.	68.64	VARIES	234.0	12.92	18.7	
0.345	0.722	S. OUTER RD.	1990.56	28	6192.9	341.81	495.4	
0.722	3.932	S. OUTER RD.	16948.80	22	41430.4	2286.73	3314.4	
3.932	3.936	S. OUTER RD.	21.12	24	56.3	3.11	4.5	BRIDGE APPROACH
3.936	3.942	S. OUTER RD.	31.68	24	84.5	4.66	6.8	BRIDGE R0562
3.942	3.946	S. OUTER RD.	21.12	24	56.3	3.11	4.5	BRIDGE APPROACH
3.946	5.201	S. OUTER RD.	6626.40	22	16197.9	894.03	1295.8	
5.201	5.210	S. OUTER RD.	47.52	22	116.2	6.41	9.3	END AT MARION DRIVE
						947.32		25% FOR IRREGULARITIES
0.362	0.384	S. OUTER RD.		VARIES	434.7	23.99	34.8	RD. 44
1.073	1.088	S. OUTER RD.		VARIES	216.9	11.97	17.4	COUNTRY CLUB RD.
0.624	0.640	S. OUTER RD.		VARIES	17.1	0.94	1.4	CR 3080 (WEST)
0.762	0.775	S. OUTER RD.		VARIES	14.2	0.78	1.1	CR 3080 (EAST)
2.098	2.107	S. OUTER RD.		VARIES	11.0	0.61	0.9	CR 3230
3.122	3.133	S. OUTER RD.		VARIES	12.5	0.69	1.0	CR 3250
4.168	4.178	S. OUTER RD.		VARIES	11.0	0.61	0.9	CR 3270
5.201	5.210	S. OUTER RD.		VARIES	178.9	9.87	14.3	MARION DR.
		S. OUTER RD.		VARIES	3080.6	170.03	246.4	ENTRANCES & MAILBOXES
					SUB-TOTAL	4956.10	5810.4	
					USE	4956.1	5810	

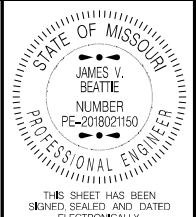
SEE TYPICAL SECTIONS FOR ESTIMATE FACTORS

1" SURFACE LEVELING (PG64-22)								
LOG MILE	LOG MILE	LOCATION	LENGTH (FT)	WIDTH (FT)	AREA (SY)	1" SURFACE LEVELING (PG64-22) (1.987 TON/CY)	TACK (GAL)	REMARKS
ROUTE C								
6.773	7.699	RTE. C	4889.28	22	11951.6	659.66	956.13	BEGIN
7.699	7.710	RTE. C	58.08	VARIES	429.0	23.68	34.32	END
7.710	7.726	RTE. C	84.48	44	413.0	22.80	33.04	END
7.726	7.737	RTE. C	58.08	22	142.0	7.84	11.36	END
						178.50		25% FOR IRREGULARITIES
		RTE. C			153.40	8.47	12.27	STATE RTE. C (NORTH)
		RTE. C			88.3	4.87	7.06	ENTRANCES & MAILBOXES
					SUB-TOTAL	905.82	1054.18	
					USE	905.8	1054	

SEE TYPICAL SECTIONS FOR ESTIMATE FACTORS

1" SURFACE LEVELING (PG64-22)								
LOG MILE	LOG MILE	LOCATION	LENGTH (FT)	WIDTH (FT)	AREA (SY)	1" SURFACE LEVELING (PG64-22) (1.987 TON/CY)	TACK (GAL)	REMARKS
N. OUTER RD. (RTE. Y TO RTE. 28) PULASKI CO.								
0.010	0.019	N. OUTER RD.	50	VARIES	342.00	18.88	27.36	BEGIN PROJECT
0.019	0.067	N. OUTER RD.	253.44	56	1576.96	87.04	126.16	
0.067	0.157	N. OUTER RD.	475.20	VARIES	1797.65	99.22	143.81	
0.157	2.735	N. OUTER RD.	13611.84	22	33273.39	1836.51	2661.87	END PROJECT
						510.41		25% FOR IRREGULARITIES
0.656	0.670	N. OUTER RD.			220.51	12.17	17.64	HOLY CROSS LN.
0.656	0.670	N. OUTER RD.			182.00	10.05	14.56	HARLAN LN.
1.001	1.014	N. OUTER RD.			151.00	8.33	12.08	HABIT DR.
1.204	1.210	N. OUTER RD.			161.00	8.89	12.88	HACKE DR.
1.464	1.489	N. OUTER RD.			276.30	15.25	22.10	HARDY LN.
1.796	1.812	N. OUTER RD.			165.30	9.12	13.22	HELIX DR.
1.945	1.953	N. OUTER RD.			80.20	4.43	6.42	HECTOR DR.
2.281	2.296	N. OUTER RD.			286.30	15.80	22.90	HEX DR.
2.416	2.434	N. OUTER RD.			219.30	12.10	17.54	HOUSTON RD.
2.601	2.615	N. OUTER RD.			220.00	12.14	17.60	HICKORY VALLEY RD.
		N. OUTER RD.				59.91	85.56	ENTRANCES & MAILBOXES
					SUB-TOTAL	2720.25	3201.7	
					USE	2720.3	3202	

SEE TYPICAL SECTIONS FOR ESTIMATE FACTORS



DATE PREPARED  
8/22/2024

ROUTE STATE  
VARIOUS MO

DISTRICT SHEET NO.  
CD 3

COUNTY  
PHELPS/PULASKI

JOB NO.  
JCD0085

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)

1" SURFACE LEVELING (PG64-22)									
LOG MILE	LOG MILE	LOCATION	LENGTH (FT)	WIDTH (FT)	AREA (SY)	1" SURFACE LEVELING (PG64-22) (1.987 TON/CY)	TACK (GAL)	REMARKS	
JAMES BVD. (WEST)									
1.820	1.825	JAMES BLVD.	26.40	VARIES	110.4	6.09	11.04	JAMES BLVD (WEST ONLY) / BEGINS RTE. 8/68	
1.825	2.057	JAMES BLVD.	1224.96	22	2994.3	165.27	299.43	JAMES BLVD. (WEST ONLY)	
2.057	2.085	JAMES BLVD.	147.84	VARIES	352.4	19.45	35.24	JAMES BLVD. (WEST ONLY) TAPER	
						48.45		25% FOR IRREGULARITIES	
1.917	1.923	JAMES BLVD.	31.68	VARIES	110.4	6.09	11.04	MERAMEC ST.	
2.003	2.011	JAMES BLVD.	42.24	VARIES	58.0	3.20	5.80	BOURBEUSE ST.	
		JAMES BLVD.		VARIES	93.7	5.17	9.37	CENTER / MERAMEC ST.	
		JAMES BLVD.		VARIES	76.2	4.21	7.62	CENTER / BOURBEUSE ST.	
		JAMES BLVD.		VARIES	176.1	9.72	17.61	CENTER / EAST & WEST (TAPER)	
					SUB-TOTAL	267.65	397.15		
					USE	267.7	397		

SEE TYPICAL SECTIONS FOR ESTIMATE FACTORS

1" SURFACE LEVELING (PG64-22)									
LOG MILE	LOG MILE	LOCATION	LENGTH (FT)	WIDTH (FT)	AREA (SY)	1" SURFACE LEVELING (PG64-22) (1.987 TON/CY)	TACK (GAL)	REMARKS	
JAMES BLVD. (EAST)									
0.000	0.733	JAMES BLVD.	3870.24	22	9460.6	522.17	756.85	JAMES BLVD.	
0.733	0.761	JAMES BLVD.	147.84	VARIES	352.4	19.45	35.24	JAMES BLVD. (EAST ONLY) (TAPER)	
0.761	0.997	JAMES BLVD.	1246.08	22	3141.2	173.38	314.12	JAMES BLVD. (EAST ONLY)	
0.997	1.001	JAMES BLVD.	21.12	VARIES	95.3	5.26	9.53	JAMES BLVD. / ENDS (EAST ONLY)	
						180.07		25 % FOR IRREGULARITIES	
0.185	0.199	JAMES BLVD.	73.92	VARIES	235.1	12.98	18.81	N. LOUISE AVE. / LT.	
0.181	0.193	JAMES BLVD.	63.36	VARIES	120.7	6.66	9.66	S. LOUISE AVE. / RT.	
0.252	0.261	JAMES BLVD.	47.52	VARIES	101.0	5.57	8.08	CHARLES AVE. / LT.	
0.285	0.294	JAMES BLVD.	47.52	VARIES	87.4	4.82	6.99	TAMMY LN. / RT.	
0.374	0.381	JAMES BLVD.	36.96	VARIES	75.7	4.18	6.06	RACE ST. / RT.	
0.464	0.473	JAMES BLVD.	47.52	VARIES	117.7	6.50	9.42	CLAYTON ST. / RT.	
0.557	0.564	JAMES BLVD.	36.96	VARIES	75.7	4.18	6.06	OAK ST. / RT.	
0.604	0.642	JAMES BLVD.	200.64	VARIES	408.5	22.55	32.68	EVERGREEN ST. / LT.	
0.639	0.647	JAMES BLVD.	42.24	VARIES	98.0	5.41	7.84	N. CARSON ST. / RT.	
0.718	0.732	JAMES BLVD.	73.92	VARIES	127.0	7.01	10.16	N. JACKSON ST. / LT	
0.806	0.814	JAMES BLVD.	42.24	VARIES	58.0	3.20	5.80	BOURBEUSE ST.	
0.890	0.902	JAMES BLVD.	63.36	VARIES	17.8	0.98	1.78	MERAMEC ST.	
		JAMES BLVD.		VARIES	1565.0	86.38	156.50	ENTRANCES & MAILBOXES	
					SUB-TOTAL	1070.75	1395.58		
					USE	1070.8	1396		

SEE TYPICAL SECTIONS FOR ESTIMATE FACTORS

1" SURFACE LEVELING (PG64-22)				
LOG MILE	LOG MILE	LOCATION	1" SURFACE LEVELING (PG64-22) (1.987 TON/CY)	TACK (GAL)
NORTH OUTER RD. (CR 2000 TO RTE. V)				
0.000	1.054	N. OUTER RD.	1041.5	1233
NORTH OUTER RD. (RTE. V TO RTE. 68)				
0.000	5.971	N. OUTER RD.	5245.8	6673
SOUTH OUTER RD. (WEST OF RTE. V TO MARION DRIVE)				
0.000	5.210	S. OUTER RD.	4956.1	5810
JAMES BLVD. (EAST)				
0.000	1.001	JAMES BLVD.	1070.8	1396
JAMES BVD. (WEST)				
1.820	2.085	JAMES BLVD.	267.7	397
N. OUTER RD. (THRU DOOLITTLE)				
0.000	1.083	N. OUTER RD.	971.1	1128
RTE. C				
6.773	7.737	RTE. C	905.8	1054
N. OUTER RD. (EAST OF RTE. C)				
2.009	3.025	N. OUTER RD.	924.5	1078
N. OUTER RD. (RTE. Y TO ST. ROBERT INTERCHANGE)				
0.010	2.735	N. OUTER RD.	2720.3	3202.0
TOTAL			18103.6	21971

CONSTRUCTION SIGNING						
SIGN NO.	SIGN	SIZE (in)	AREA (sy)	QTY.	TOTAL AREA (sy)	DESCRIPTION
2	16.00	48 x 48	16.00	58	928.00	ROAD WORK AHEAD
7	16.00	48 x 48	16.00	16	256.00	ONE LANE ROAD AHEAD
8	16.00	48 x 48	16.00	58	928.00	FLAGGER (SYMBOL) WITH FLAGS
1	10.00	60 x 24	10.00	6	60.00	ROAD WORK NEXT XX MILES
26	8.00	48 x 24	8.00	6	48.00	END ROAD WORK
35	16.00	48 x 48	16.00	20	320.00	NO CENTER LINE
36	16.00	48 x 48	16.00	40	640.00	UNEVEN LANES
53	4.50	36 x 18	4.5	4	18.0	PILOT CAR FOLLOW ME
58	8.75	42 x 30	8.75	1	8.75	PILOT CAR IN USE WAIT & FOLLOW
58	1.50	18 x 12	1.50	41	61.50	PILOT CAR IN USE WAIT & FOLLOW
11	16.00	48 x 48	16.00	42	672.00	BE PREPARED TO STOP
59	12.00	48 x 36	12.00	8	96.00	WORK ZONE NO PHONE ZONE
G022-1	2.19	21 x 15	2.19	4	8.76	WET PAINT (ARROW PIVOTS)
<b>616-10.05</b>					<b>4045.01</b>	
<b>CONSTRUCTION SIGNS TOTAL</b>					<b>4045</b>	

CONSTRUCTION ITEMS		
ITEM NO.	QTY.	DESCRIPTION
616-10.25	200	CHANNELIZERS
616.10.98A	8	CHANGEABLE MESSAGE SIGN

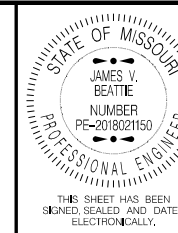
\* IF LESS THAN TWO (2) MILES, DELETE SIGN NO. 1.

\*\* ADDITIONAL SIGN NO. 2 USED AS SHOWN ON TRAFFIC CONTROL SHEET 3 OF 5 AND AS DIRECTED BY ENGINEER.

NOTE:

REFER TO STANDARD PLAN 616.10 AND 903.03 FOR SIGN AND SIGN MOUNTING REQUIREMENTS.

SUMMARY OF QUANTITIES  
SHEET 3 OF 8



DATE PREPARED  
8/22/2024

ROUTE VARIOUS STATE MO

DISTRICT CD SHEET NO. 3

COUNTY PHELPS/PULASKI

JOB NO. JCD0085

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION

DATE

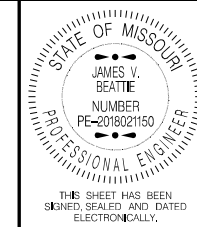
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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

MO DOT

PAVEMENT MARKING										
LOG MILE	LOG MILE	LENGTH (MILES)	WATERBORNE PAINT, TYPE P BEADS			PERFORMED THERMOPLASTIC				REMARKS
			LENGTH (FT)	4" SOLID YELLOW (LF)	4" SOLID WHITE (LF)	24 IN. SOLID WHITE (LF)	6 IN. SOLID WHITE (LF)	STRAIGHT / RT TURN ARROW (EA)	LT / RT TURN ARROW (EA)	
NORTH OUTER RD. (BEGIN AT CR 2000 TO RTE. V)										
0.000	1.054	1.054	5565.12	11130.24	11130.24					BEGIN AT CO. RD. 2000 TO RTE. V
1.047										AT RTE. V
NORTH OUTER RD. (BEGIN AT RTE. V TO RTE. 68)										
0.000	5.971	5.971	31526.88	63053.76	63203.76					RTE. V TO RTE. 68
NORTH OUTER RD. (THRU DOOLITTLE)										
0.000	1.083	1.083	5718.24	11436.48	11436.48					N. OUTF. RD. (THRU DOOLITTLE)
RTE. C										
6.773	7.699	0.926	4889.28	9778.56	9778.56					RTE. C
7.699	7.737	0.038	200.64	401.28	401.28					RTE. C
N/ OUTER RD. (EAST OF RTE. C)										
2.009	3.025	1.016	5364.48	10728.96	10728.96					N.OUTER RD. (EAST OF RTE. C)
S. OUTER RD. (SME TO RTE. V & RTE. V TO MARION DR.)										
0.000	0.345	0.345	1821.60	3643.20	3643.20					S. OUTER RD. - SME TO RTE. V
0.354	5.210	4.856	25639.68	51279.36	51279.36					S. OUTER RD.- RTE. V TO MARION DR.
JAMES BVD. (EAST)										
0.000	1.001	1.001	5285.28	10570.56	10570.56					JAMES BLVD. (EAST)
JAMES BLVD. (WEST)										
1.820	2.085	0.265	1399.20	2798.40	2798.40					JAMES BLVD.(WEST)
N. OUTER RD. (RTE. Y TO RTE. 28)										
0.012	0.017	0.005	26.40	52.80	79.20					N. OUTER RD. (RTE. Y TO RTE. 28)
0.017	0.026	0.009	50.00	100.00	100.00					N. OUTER RD. (RTE. Y TO RTE. 28)
0.026	0.161	0.135	712.80	2851.20	1425.60					N. OUTER RD. (RTE. Y TO RTE. 28)
0.161	2.735	2.574	13590.72	27181.44	27181.44					N. OUTER RD. (RTE. Y TO RTE. 28)
							44			JAMES BLVD. (EAST) / CROSSWALKS
							44			JAMES BLVD. (WEST) / CROSSWALKS
0.009						24				CR 2000 TO RTE. V
2.735						12			1	RTE V TO RTE. 68
0.021						12				N. OUTER RD. (RTE. Y TO RTE. 28)
						24				HOLY CROSS LN. (N. OUTER RD. ) (PULASKI COUNTY)
				SUB-TOTAL	205006.24	203757.0	72	88	1	2
				USE	205006	203757	72	88	1	2

NOTE: ALL PAVEMENT MARKINGS TO MATCH EXISTING. LOCATE BEFORE MILLING OR RESURFACING.



DATE PREPARED: 8/22/2024

ROUTE: VARIOUS STATE: MO

DISTRICT: CD SHEET NO.: 3

COUNTY: PHELPS/PULASKI

JOB NO.: JCD0085

CONTRACT ID.:

PROJECT NO.:

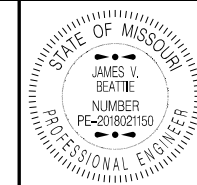
BRIDGE NO.:

DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION



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



THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED  
8/22/2024

ROUTE VARIOUS STATE MO  
DISTRICT CD SHEET NO. 3

COUNTY  
PHELPS/PULASKI

JOB NO.  
JCD0085

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION	DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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

**COLDMILLING (3" OR LESS) FOR CONCRETE ENTRANCES & SHOULDERS**

LOG MILE	LOG MILE	LOCATION	LENGTH (FT)	WIDTH (FT)	AREA (SY)	REMARKS
CO. RD. 2000 TO RTE. V						
0.623	0.639	N. OUTER RD.	84.48	5	46.9	
0.754	0.770	N. OUTER RD.	84.48	5	46.9	
0.774	0.795	N. OUTER RD.	110.88	5	61.6	
0.962	1.054	N. OUTER RD.	485.76	5	269.9	SHLDRS. & ENTRANCES (RT.)
0.962	1.054	N. OUTER RD.	485.76	5	269.9	SHLDRS. & ENTRANCES (LT.)
N. OUTER RD. (RTE. V TO RTE. 58)						
0.078	0.120	N. OUTER RD.	221.76	5	123.2	
0.226	0.242	N. OUTER RD.	84.48	5	46.9	
4.749	4.765	N. OUTER RD.	84.48	5	46.9	
5.440	5.457	N. OUTER RD.	89.76	5	49.9	
5.515	5.526	N. OUTER RD.	58.08	5	32.3	
5.552	5.563	N. OUTER RD.	58.08	5	32.3	
5.579	5.590	N. OUTER RD.	58.08	5	32.3	
5.709	5.720	N. OUTER RD.	58.08	5	32.3	
5.828	5.842	S. OUTER RD.	73.92	5	41.1	
5.873	5.964	S. OUTER RD.	480.48	5	266.9	
S. OUTER RD. (SME TO RTE. V)						
0.103	0.162	S. OUTER RD.	311.52	5	173.1	
0.170	0.215	S. OUTER RD.	237.60	5	132.0	
S. OUTER RD. (RTE. V TO MARION DR.)						
0.671	0.675	S. OUTER RD.	21.12	5	11.7	
1.103	1.115	S. OUTER RD.	63.36	5	35.2	
2.321	2.335	JAMES BLVD.	73.92	5	41.1	
5.139	5.149	JAMES BLVD.	52.80	5	29.3	
5.161	5.171	JAMES BLVD.	52.80	5	29.3	
JAMES BLVD. (MARION DR. TO RTE. 8/68)						
0.046	0.051	JAMES BLVD.	26.40	5	14.7	
0.063	0.068	JAMES BLVD.	26.40	5	14.7	
0.101	0.109	JAMES BLVD.	42.24	5	23.5	
0.165	0.175	JAMES BLVD.	52.80	5	29.3	
0.205	0.218	JAMES BLVD.	68.64	5	38.1	
0.446	0.460	JAMES BLVD.	73.92	5	41.1	
0.508	0.522	RTE. C	73.92	5	41.1	
0.525	0.541	RTE. C	84.48	5	46.9	
0.539	0.551	RTE. C	63.36	5	35.2	
0.804	0.817	RTE. C	68.64	5	38.1	
0.539	0.551	RTE. C	63.36	5	35.2	
N. OUTER RD. (PULASKI/RTE. 28 TO RTE. Y)						
0.073	0.108	N. OUTER RD.	184.80	5	102.7	
0.505	0.518	N. OUTER RD.	68.64	5	38.1	
0.536	0.551	N. OUTER RD.	79.20	5	44.0	
2.702	2.737	N. OUTER RD.	184.80	5	102.7	
					SUB-TOTAL	2496.4
					USE	2496

COLDMILLING (3" OR LESS) TOTALS		
LOCATION	AREA (SY)	REMARKS
JAMES BLVD. (EAST & WEST)	7553	
CONCRETE ENTRANCES & SHLDRS.	2496	
	10049.0	
	10049	

MOBILIZATION	
	1 LUMP SUM

GRAVEL (A), OR CRUSHED STONE (B)	
ROCK FOR COUNTY RDS, ENTRANCES & MAILBOXES	
	1729 TONS

**COLDMILLING (3" OR LESS) (JAMES BLVD.)**

LOG MILE	LOG MILE	LOCATION	LENGTH (FT)	WIDTH (FT)	AREA (SY)	REMARKS
JAMES BLVD. (EAST)						
0.733	0.761	JAMES BLVD.	148	VARIES	352.4	TAPER
0.761	0.997	JAMES BLVD.	1246	22	3141.2	
0.997	1.001	JAMES BLVD.	21	VARIES	95.3	END / RTE. 8/68
0.806	0.814	JAMES BLVD.			58.0	BOURBEUSE ST.
0.890	0.920	JAMES BLVD.			110.4	MERAMEC ST.
JAMES BLVD. (WEST)						
1.820	1.825	JAMES BLVD.	26	VARIES	110.4	BEGIN AT RTE. 8/68
1.825	2.057	JAMES BLVD.	1225	22	2994.4	
2.057	2.085	JAMES BLVD.	50	VARIES	352.4	TAPER
1.917	1.923	JAMES BLVD.			110.4	MERAMEC ST.
1.920		JAMES BLVD.			93.7	CENTER / MERAMEC ST.
2.003	2.011	JAMES BLVD.			58.0	BOURBEUSE ST.
2.007		JAMES BLVD.			76.2	CENTER / BOURBEUSE ST.
					SUB-TOTAL	7552.8
					USE	7553

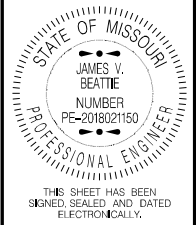
**REMOVAL OF IMPROVEMENTS**

LOG MILE	LOG MILE	LENGTH (FT)	LOCATION	ITEMS OF REMOVAL (EA)	REMARKS
S. OUTER RD. (RTE. V TO RTE. 68)					
0.902	1.082	950	S. OUTER RD.	GUARDRAIL 950' & OBJECT MARKERS/POSTS	S. OUTER RD. / LT. (COUNTRY CLUB RD.)
2.482	2.581	525	S. OUTER RD.	GUARDRAIL & TURNDOWNS / 525'	S. OUTER RD. / LT.
3.002	3.102	525	S. OUTER RD.	GUARDRAIL & TURNDOWNS / 525'	S. OUTER RD. / LT.
4.002	4.202	1050	S. OUTER RD.	GUARDRAIL & TURNDOWNS / 1056'	S. OUTER RD. / LT.
4.760	4.880	625	S. OUTER RD.	GUARDRAIL & TURNDOWNS / 635'	S. OUTER RD. / LT.
N. OUTER RD. (CO. RD. 2000 TO RTE. V)					
0.659	0.798	735	N. OUTER RD.	GUARDRAIL 735' & OBJECT MARKERS	N. OUTER RD. / LT. (CR. 2070)
N. OUTER RD. (RTE. V TO RTE. 68)					
1.771	1.795	125	N. OUTER RD.	GUARDRAIL 125' & OBJECT MARKERS	N. OUTER RD. / RT. (ROUTE RA)
3.570	3.594	125	N. OUTER RD.	GUARDRAIL & TURNDOWNS / 125'	BRIDGE A4283 / NW CORNER
3.607	3.631	125	N. OUTER RD.	GUARDRAIL & TURNDOWNS / 125'	BRIDGE A4283 / NE CORNER
3.570	3.594	125	N. OUTER RD.	GUARDRAIL & TURNDOWNS / 125'	BRIDGE A4283 / SW CORNER
3.607	3.631	125	N. OUTER RD.	GUARDRAIL & TURNDOWNS / 125'	BRIDGE A4283 / SE CORNER
N. OUTER RD. (RTE. Y TO ST. ROBERT INTERCHANGE)					
0.115	0.256	744	N. OUTER RD.	GUARDRAIL & TURNDOWNS / 744'	N. OUTER RD. / ST. ROBERT / LT
0.535	0.675	739	N. OUTER RD.	GUARDRAIL & TURNDOWNS / 739'	N. OUTER RD. / ST. ROBERT / RT.
0.555	0.635	422	N. OUTER RD.	GUARDRAIL & TURNDOWNS / 422'	N. OUTER RD. / ST. ROBERT / LT.
0.895	0.955	317	N. OUTER RD.	GUARDRAIL & TURNDOWNS / 317'	N. OUTER RD. / ST. ROBERT / LT.
1.215	1.334	628	N. OUTER RD.	GUARDRAIL & TURNDOWNS / 628'	N. OUTER RD. / ST. ROBERT / LT.
1.355	1.454	523	N. OUTER RD.	GUARDRAIL & TURNDOWNS / 623'	N. OUTER RD. / ST. ROBERT / LT.
1.653	1.714	322	N. OUTER RD.	GUARDRAIL & TURNDOWNS / 322'	N. OUTER RD. / ST. ROBERT / LT.
2.015	2.114	523	N. OUTER RD.	GUARDRAIL & TURNDOWNS / 523'	N. OUTER RD. / ST. ROBERT / LT.
2.173	2.234	322	N. OUTER RD.	GUARDRAIL & TURNDOWNS / 322'	N. OUTER RD. / ST. ROBERT / LT.
2.213	2.393	950	N. OUTER RD.	GUARDRAIL & TURNDOWNS / 950'	N. OUTER RD. / ST. ROBERT / RT.
2.433	2.473	211	N. OUTER RD.	GUARDRAIL & TURNDOWNS / 211'	N. OUTER RD. / ST. ROBERT / LT.
2.535	2.594	385	N. OUTER RD.	GUARDRAIL & TURNDOWNS / 385'	N. OUTER RD. / ST. ROBERT / LT
OUTER RD. (EAST OF RTE. C)					
1.892	2.110	1151	N. OUTER RD.	GUARDRAIL & TURNDOWNS / 1151'	N. OUTER RD. / LT
2.118	2.228	581	N. OUTER RD.	GUARDRAIL & TURNDOWNS / 702'	N. OUTER RD. / LT
				TOTAL	1 LUMP SUM

**GUARDRAIL**

LOG MILE	LOG MILE	LENGTH (FT)	LOCATION	TYPE A CRASHWORTHY END TERMINAL MASH (EA)	MGS GUARDRAIL (FT)	MGS END ANCHOR (EA)	MGS BRIDGE APPROACH TRANSITION SECTION (REGULAR / NO CURB) (EA)	SHAPING SLOPES CLASS III AREA (100 FT)	REMARKS
S. OUTER RD. (WEST OF RTE. V TO MARION DR.)									
0.891	1.088	1040	S. OUTER RD.	2	850.0			13	S. OUTER RD. / LT.
2.482	2.581	525	S. OUTER RD.	2	425			8.3	S. OUTER RD. / LT.
3.002	3.102	525	S. OUTER RD.	2	425			8.3	S. OUTER RD. / LT.
4.002	4.202	1055	S. OUTER RD.	2	950			13.6	S. OUTER RD. / LT.
3.907	3.936	153	S. OUTER RD.	1	37.5		1	3.03	BRIDGE R0562 / NW CORNER
3.907	3.936	153	S. OUTER RD.	1	37.5		1	3.03	BRIDGE R0562 / SW CORNER
3.942	4.202	1373	S. OUTER RD.	1	1275.0		1	16.73	BRIDGE R0562 / NE CORNER
3.942	3.966	127	S. OUTER RD.	1	37.5		1	2.77	BRIDGE R0562 / SE CORNER
4.760	4.880	635	S. OUTER RD.	2	537			9.4	S. OUTER RD. / LT.
N. OUTER RD. (CR. 2000 TO RTE. V)									
0.659	0.798	735	N. OUTER RD.	2	635			10.35	N. OUTER RD. / RT.
N. OUTER RD. (RTE. V TO RTE. 68)									
2.750	1.795	125	N. OUTER RD.	2	25				N. OUTER RD. / RT. / AT ROUTE RA
3.571	3.594	125	N. OUTER RD.	1	37.5		1	4.25	BRIDGE A4283 / NW CORNER
3.607	3.630	125	N. OUTER RD.	1	37.5		1	2.75	BRIDGE A4283 / NE CORNER
3.571	3.594	125	N. OUTER RD.	1	37.5		1	2.75	BRIDGE A4283 / SW CORNER
3.607	3.630	125	N. OUTER RD.	1	37.5		1	2.75	BRIDGE A4283 / SE CORNER
N. OUTER RD. (RTE. Y TO ST. ROBERT INTERCHANGE)									
0.115	0.256	744	N. OUTER RD.	2	644			10.4	N. OUTER RD. / ST. ROBERT / LT
0.535	0.675	739	N. OUTER RD.	2	639			10.4	N. OUTER RD. / ST. ROBERT / RT.
0.555	0.635	422	N. OUTER RD.	2	322			7.2	N. OUTER RD. / ST. ROBERT / LT.
0.895	0.955	317	N. OUTER RD.	2	217			6.2	N. OUTER RD. / ST. ROBERT / LT.
1.215	1.334	628	N. OUTER RD.	2	528			9.3	N. OUTER RD. / ST. ROBERT / LT.
1.355	1.454	523	N. OUTER RD.	2	423			8.2	N. OUTER RD. / ST. ROBERT / LT.
1.653	1.714	322	N. OUTER RD.	2	222			6.2	N. OUTER RD. / ST. ROBERT / LT.
2.015	2.114	523	N. OUTER RD.	2	423			8.2	N. OUTER RD. / ST. ROBERT / LT.
2.173	2.234	322	N. OUTER RD.	2	222			6.2	N. OUTER RD. / ST. ROBERT / LT.
2.213	2.393	950	N. OUTER RD.	2	850			13	N. OUTER RD. / ST. ROBERT / RT.
2.433	2.473	211	N. OUTER RD.	2	111			5.1	N. OUTER RD. / ST. ROBERT / LT.
2.535	2.594	385	N. OUTER RD.	1	325	1		5.4	N. OUTER RD. / ST. ROBERT
N. OUTER RD. (EAST OF RTE. C)									
1.892	2.110	1151	N. OUTER RD.	1	1112.5	1		13.01	N. OUTER RD. / LT.
2.118	2.251	702	N. OUTER RD.	1	650	1		8.52	N. OUTER RD. / LT.
			TOTAL	47	12073	3	8	218.3	

GUARDRAIL TO BE PLACED IN EXISTING LOCATIONS. VERIFY LOCATION IN THE FIELD BEFORE INSTALLATION.



DATE PREPARED  
**8/22/2024**

ROUTE  
VARIOUS

STATE  
**MO**

DISTRICT  
**CD**

SHEET NO.  
**3**

COUNTY  
**PHELPS/PULASKI**

JOB NO.  
**JCD0085**

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DATE	DESCRIPTION

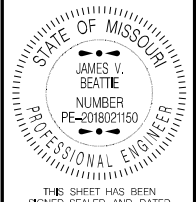
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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



PAVEMENT REPAIR - CLASS C						
LOCATION	LOG MILE	LOG MILE	LENGTH (FT)	WIDTH (FT)	REMOVAL FOR CLASS C PARTIAL DEPTH PAVEMENT REPAIR (SY)	FURNISHING AND PLACING BITUMINOUS MATERIAL FOR CLASS C PARTIAL DEPTH PAVEMENT REPAIR (TONS)
Eastbound South Outer Road	0.435	0.445	50	11	61	6.7
Eastbound South Outer Road	0.585	0.595	50	11	61	6.7
Eastbound South Outer Road	0.850	0.870	110	11	134	14.7
Eastbound South Outer Road	2.375	2.410	180	11	220	24.2
Eastbound South Outer Road	2.450	2.470	110	11	134	14.7
Eastbound South Outer Road	2.580	2.600	110	11	134	14.7
Eastbound South Outer Road	2.990	3.000	50	11	61	6.7
Eastbound South Outer Road	3.050	3.080	160	11	196	21.6
Eastbound South Outer Road	3.250	3.270	110	11	134	14.7
Eastbound South Outer Road	3.290	3.310	110	11	134	14.7
Eastbound South Outer Road	3.610	3.620	50	11	61	6.7
Eastbound South Outer Road	3.650	3.690	210	11	257	28.3
Eastbound South Outer Road	3.830	3.880	260	11	318	35.0
Eastbound South Outer Road	4.290	4.300	50	11	61	6.7
Eastbound South Outer Road	5.240	5.260	110	11	134	14.7
Eastbound South Outer Road	5.560	5.580	110	11	134	14.7
Eastbound South Outer Road	5.620	5.690	370	6	247	27.2
Eastbound South Outer Road	5.725	5.745	110	11	134	14.8
Eastbound South Outer Road	5.790	5.850	320	6	213	23.4
Westbound South Outer Road	1.340	1.345	30	11	37	4.1
Westbound South Outer Road	1.430	1.450	110	11	134	14.7
Westbound South Outer Road	1.540	1.550	50	11	61	6.7
Westbound South Outer Road	1.665	1.675	50	11	61	6.7
Westbound South Outer Road	1.975	1.985	50	11	61	6.7
Westbound South Outer Road	3.210	3.220	50	11	61	6.7
Westbound South Outer Road	3.870	3.880	50	11	61	6.7
Westbound South Outer Road	4.300	4.310	50	11	61	6.7
Westbound South Outer Road	4.625	4.640	80	11	98	10.8
Westbound South Outer Road	4.975	4.995	110	11	134	14.7
Westbound South Outer Road	5.150	5.170	110	11	134	14.7
Eastbound North Outer Road	1.350	1.370	110	6	73	8.0
Eastbound North Outer Road	1.465	1.510	240	6	160	17.6
Eastbound North Outer Road	2.085	2.110	130	6	87	9.6
Eastbound North Outer Road	3.115	3.185	370	6	247	27.2
Eastbound North Outer Road	3.210	3.240	160	6	107	11.8
Eastbound North Outer Road	3.350	3.450	530	6	353	38.8
Westbound North Outer Road	3.790	3.820	160	6	107	11.8
Westbound North Outer Road	3.140	3.150	50	6	33	3.6
Westbound North Outer Road	6.070	6.075	30	6	20	2.2
				TOTAL	4918	541

LOCATIONS ARE FOR INFORMATIONAL PURPOSES. VERIFY WITH ENGINEER IN FIELD



THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED  
8/22/2024

ROUTE STATE  
VARIOUS MO

DISTRICT SHEET NO.  
CD 3

COUNTY  
PHELPS/PULASKI

JOB NO.  
JCD0085

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

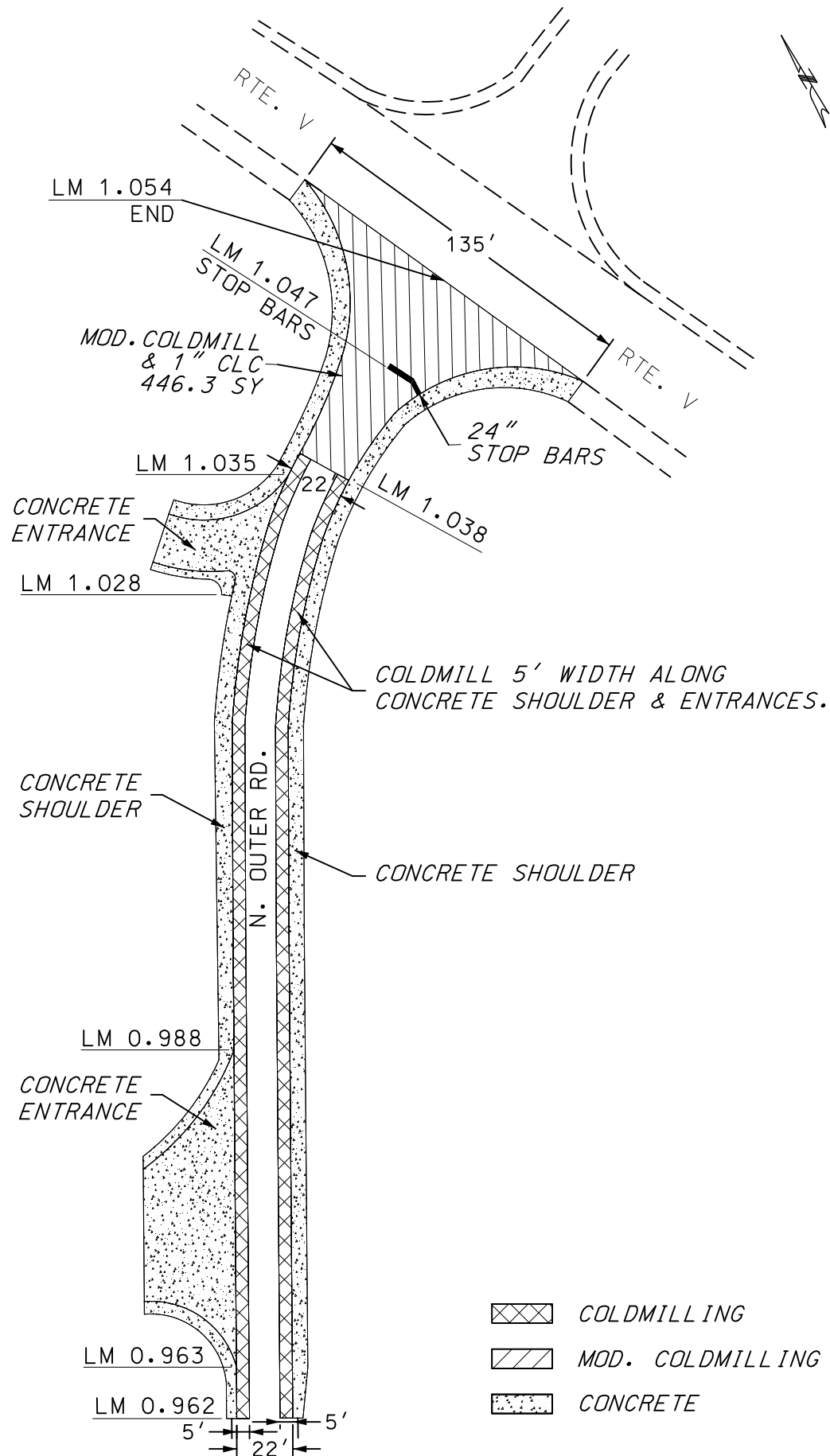
DESCRIPTION	DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL JEFFERSON CITY, MO 65102

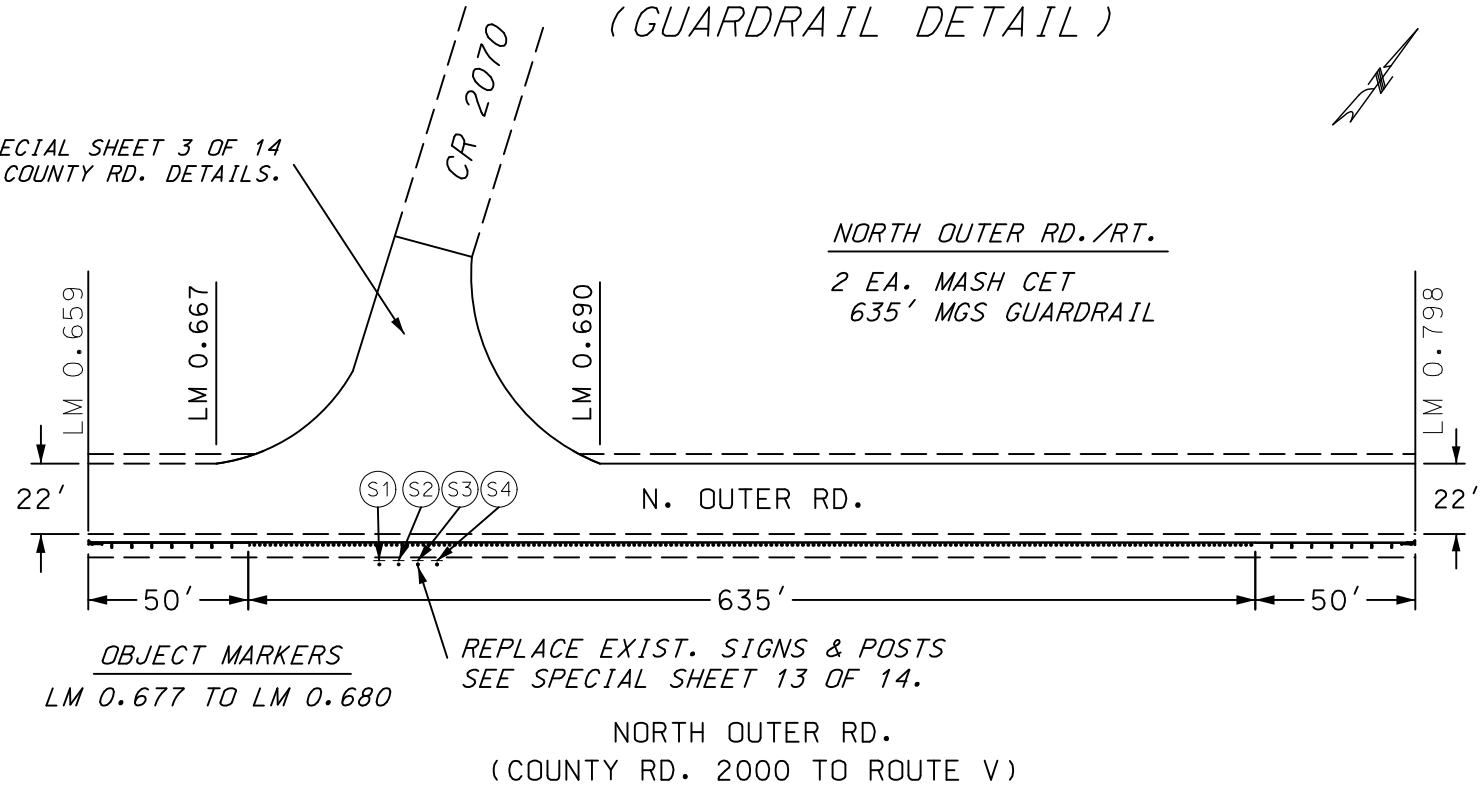
1-888-ASK-MODOT (1-888-273-6636)

NORTH OUTER RD. & RTE. V

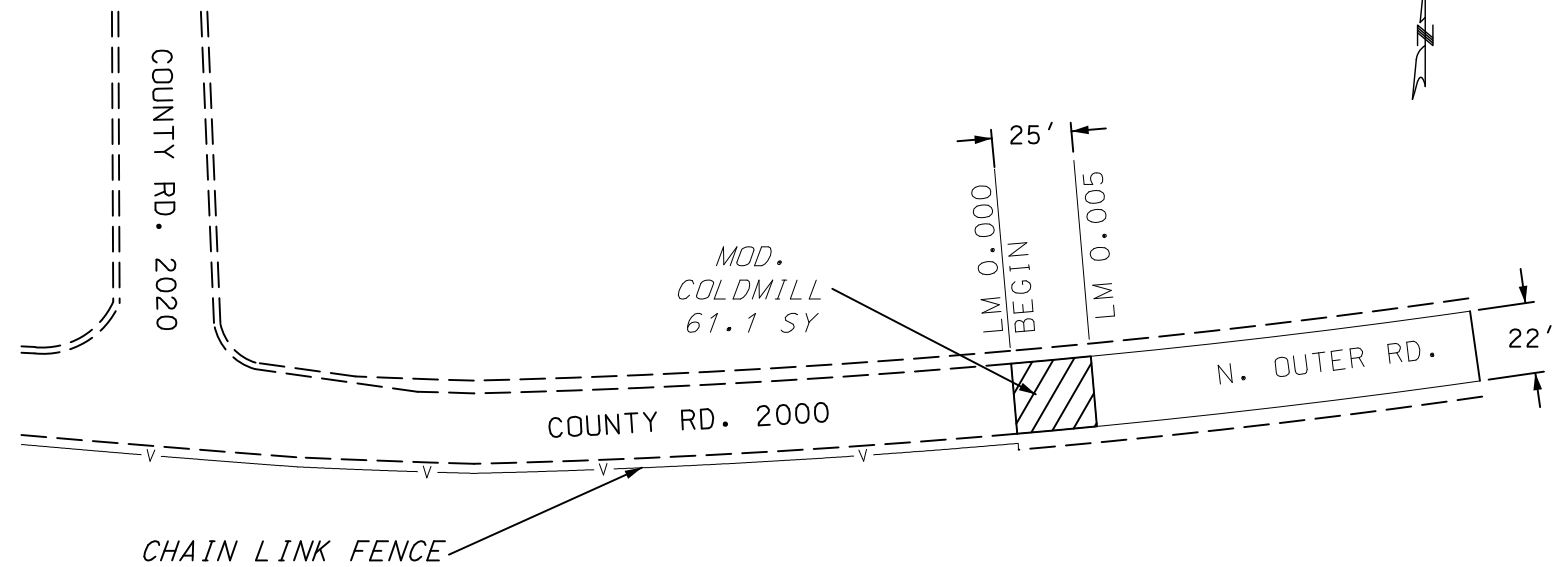


NORTH OUTER RD. (GUARDRAIL DETAIL)

SEE SPECIAL SHEET 3 OF 14 FOR COUNTY RD. DETAILS.



NORTH OUTER RD. & COUNTY RD. 2000

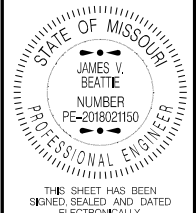


MOD. COLDMILLING

NOTE: VERIFY LOCATIONS IN THE FIELD BEFORE INSTALLATION.

NOT TO SCALE

SPECIAL SHEET  
NORTH OUTER RD.  
SHEET 1 OF 14



DATE PREPARED  
8/22/2024

ROUTE	STATE
VARIOUS	MO
DISTRICT	SHEET NO.
CD	4

COUNTY  
PHELPS/PULASKI

JOB NO.  
JCD0085

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

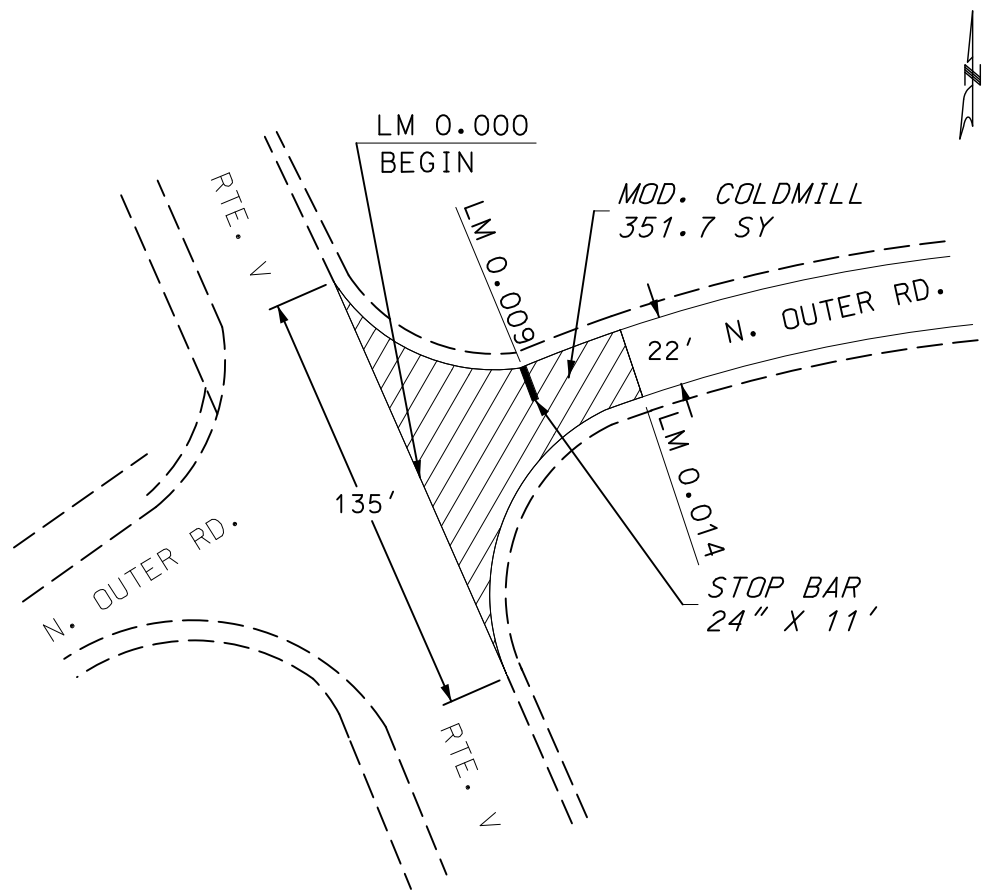
DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

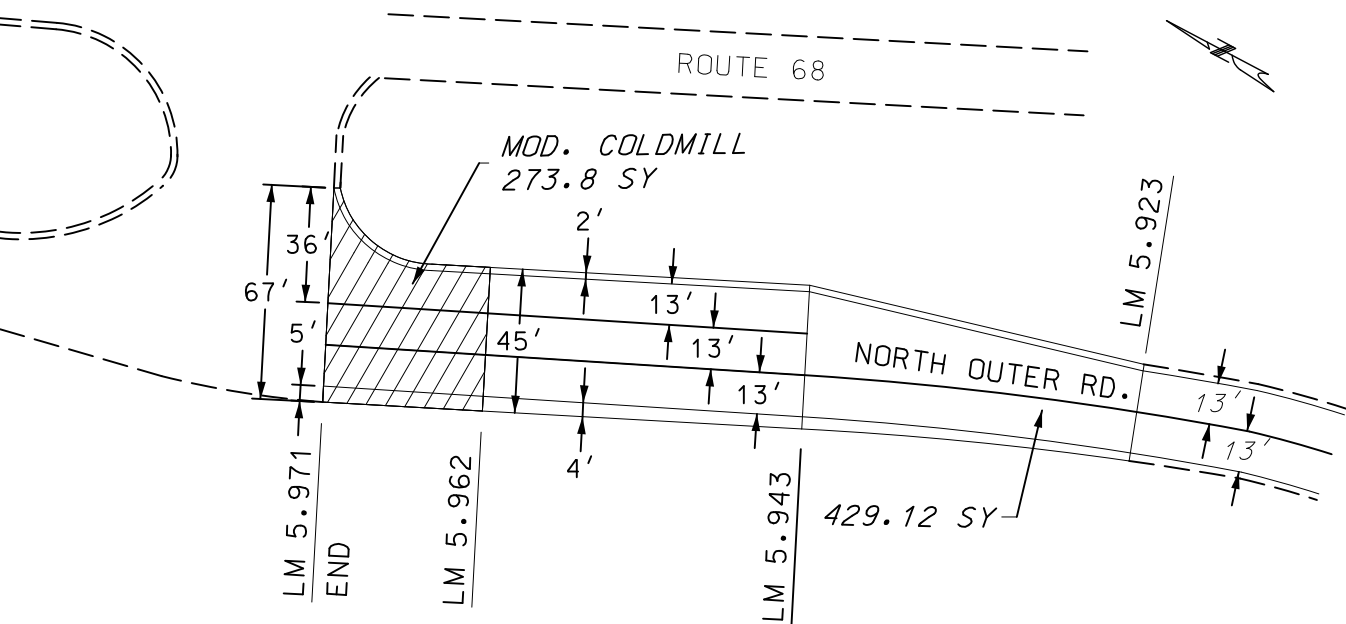
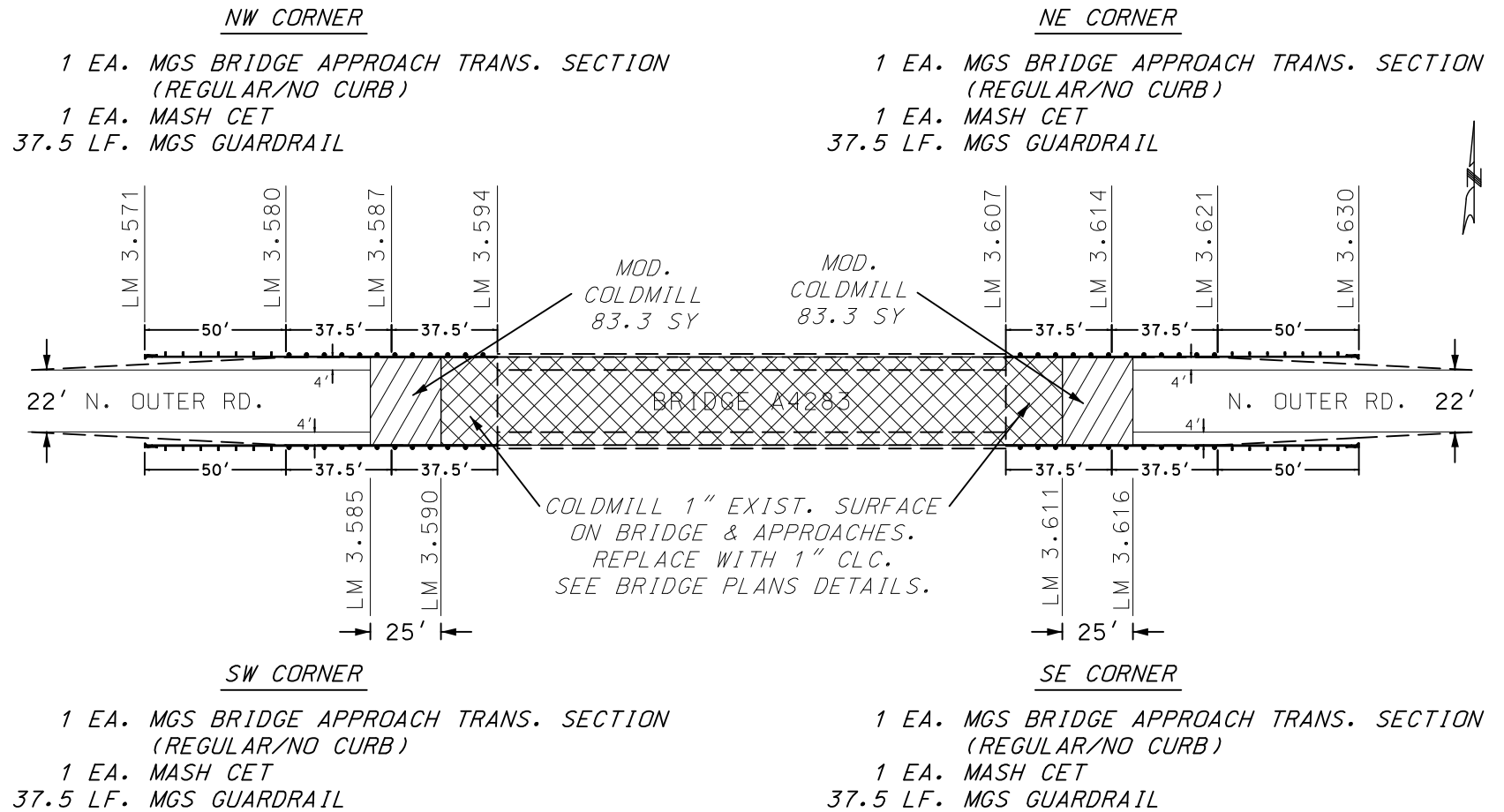
105 WEST CAPITOL  
JEFFERSON CITY, MO 65102  
1-888-ASK-MODOT (1-888-275-6636)



NORTH OUTER RD. & RTE. V



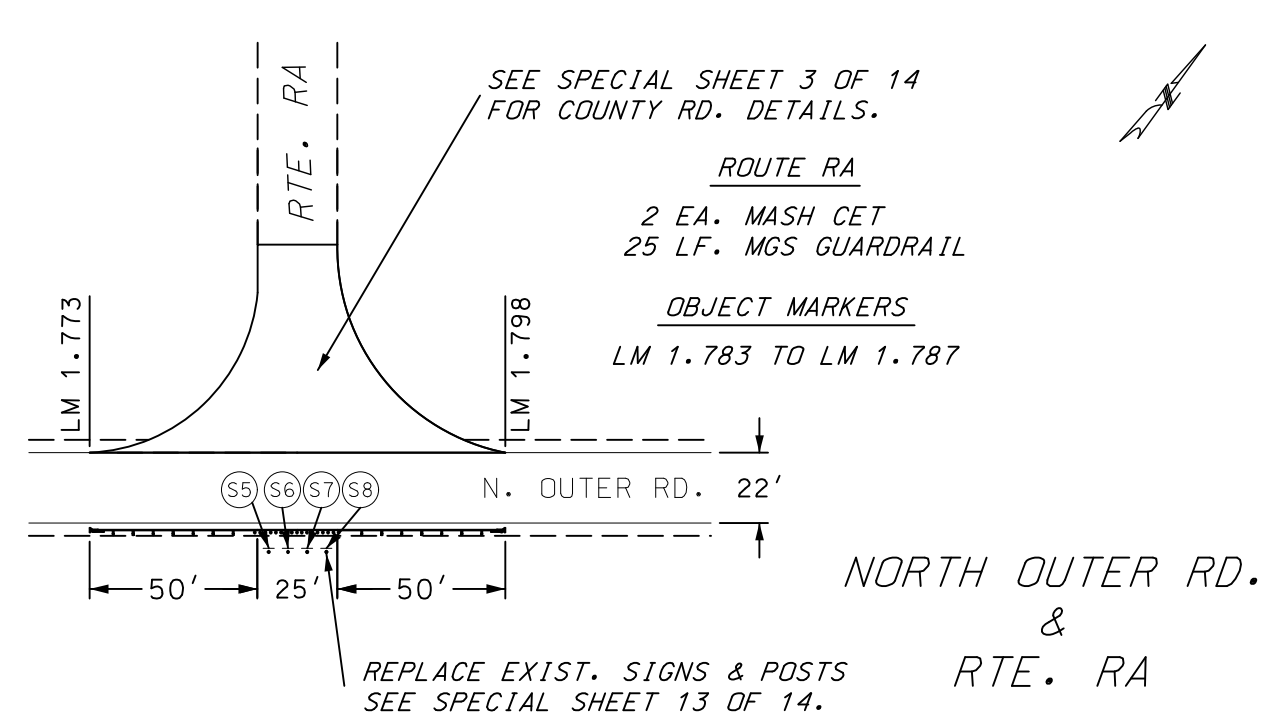
NORTH OUTER RD. (BRIDGE A4283) RTE. V TO RTE. 68



NORTH OUTER RD. & RTE. 68

NOTE: VERIFY LOCATIONS IN THE FIELD BEFORE INSTALLATION.

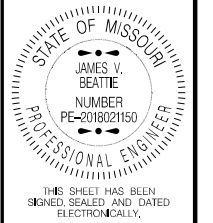
MOD. COLDMILLING



NORTH OUTER RD. & RTE. RA

NOT TO SCALE

SPECIAL SHEET NORTH OUTER RD. SHEET 2 OF 14



DATE PREPARED 8/22/2024	
ROUTE VARIOUS	STATE MO
DISTRICT CD	SHEET NO. 5
COUNTY PHELPS/PULASKI	
JOB NO. JCD0085	
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)

NORTH OUTER RD.  
(CR 2000 TO RTE. V)

NORTH OUTER RD.  
(RTE. V TO RTE. 68)



THIS SHEET HAS BEEN  
SIGNED, SEALED AND DATED  
ELECTRONICALLY.

DATE PREPARED  
8/22/2024

ROUTE STATE  
VARIOUS MO

DISTRICT SHEET NO.  
CD 6

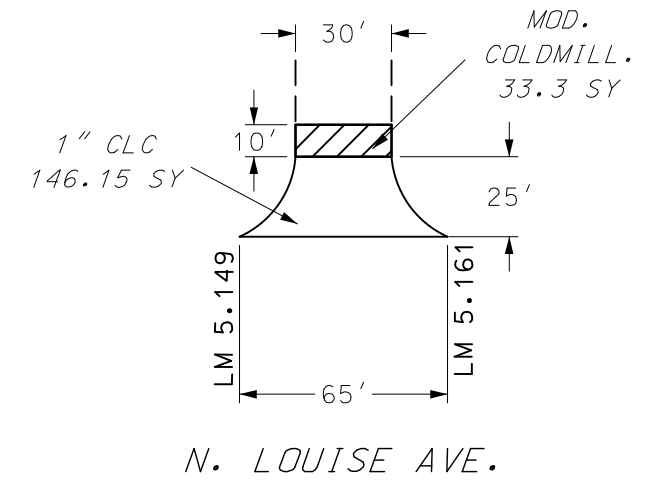
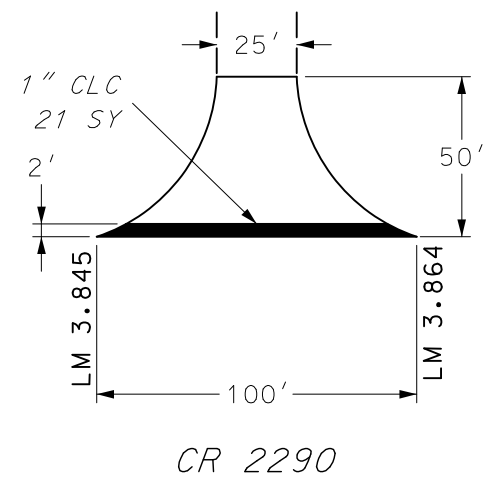
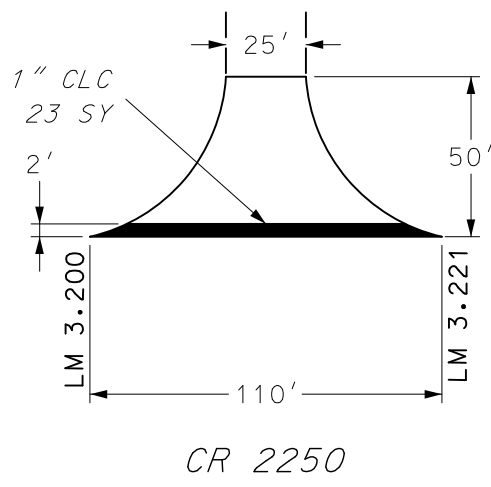
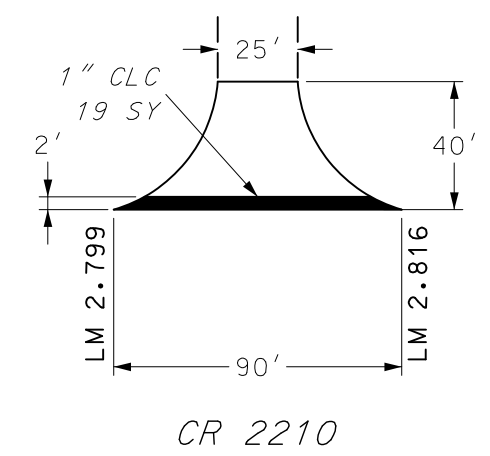
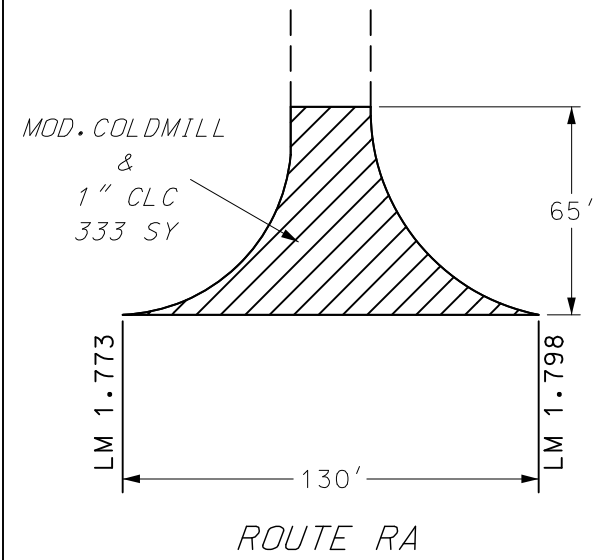
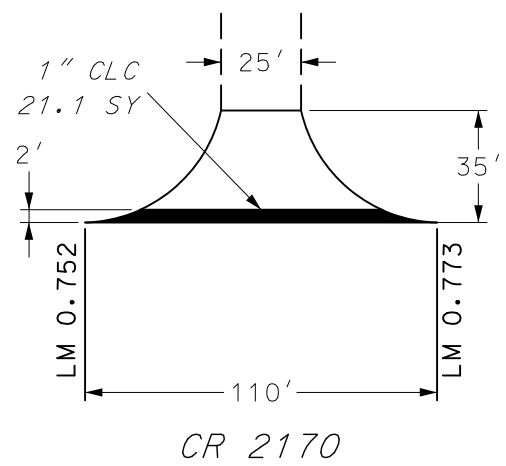
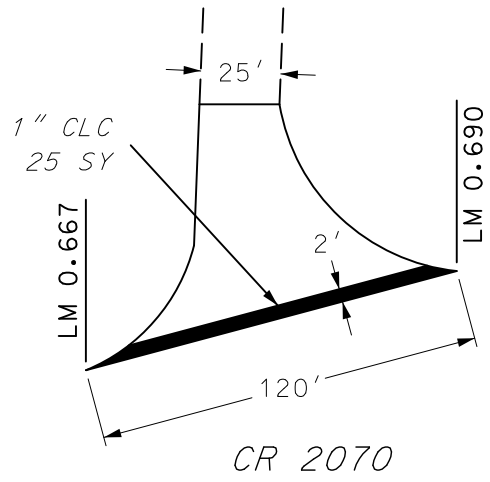
COUNTY  
PHELPS/PULASKI

JOB NO.  
JCD0085

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)

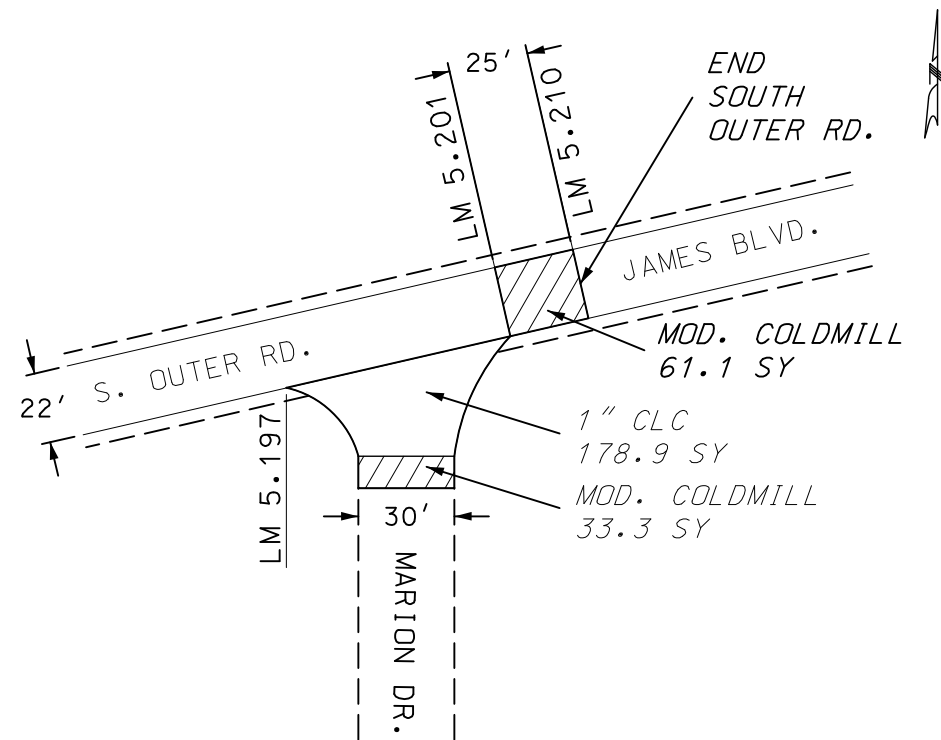
- MOD. COLDMILLING

NOTE: VERIFY LOCATIONS IN THE FIELD BEFORE INSTALLATION.

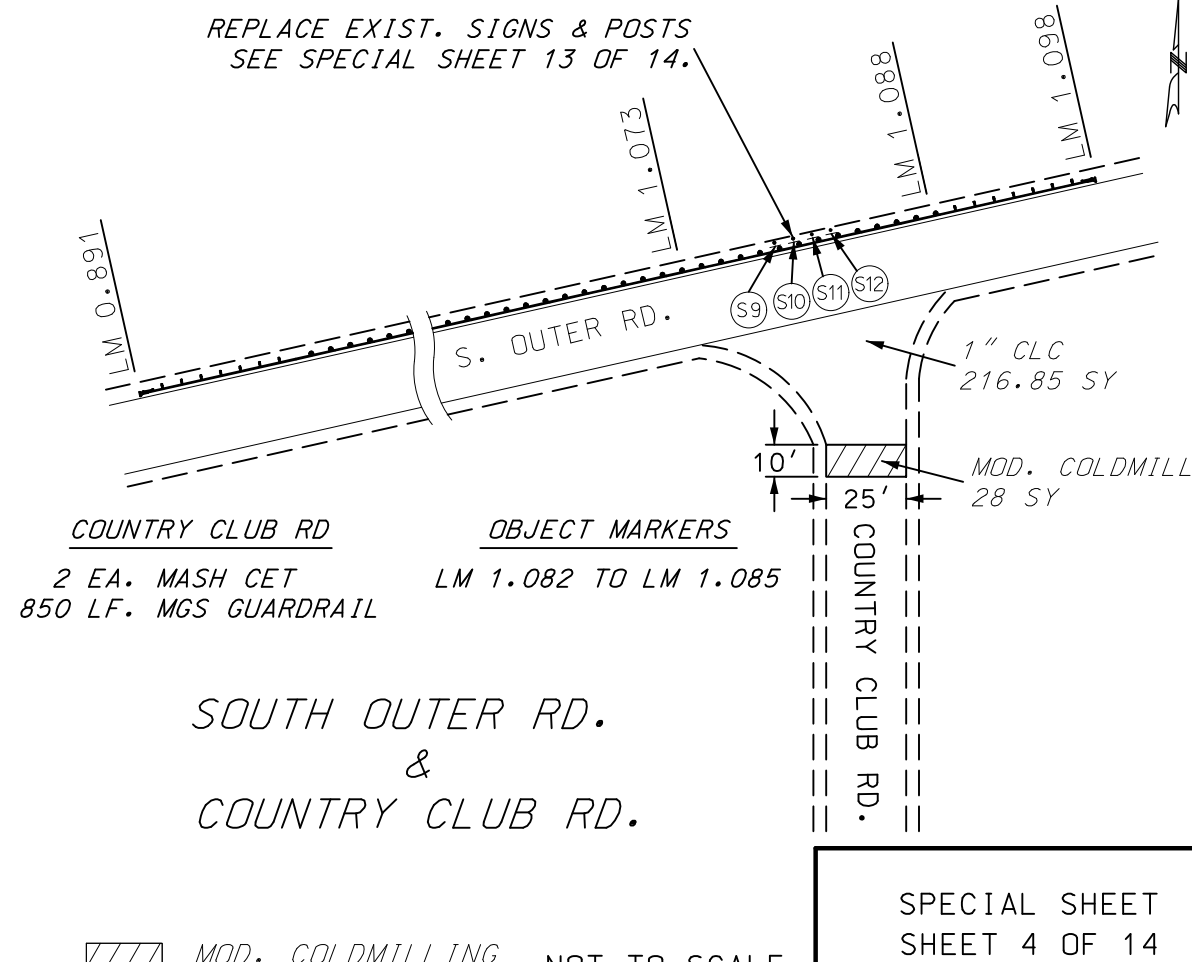
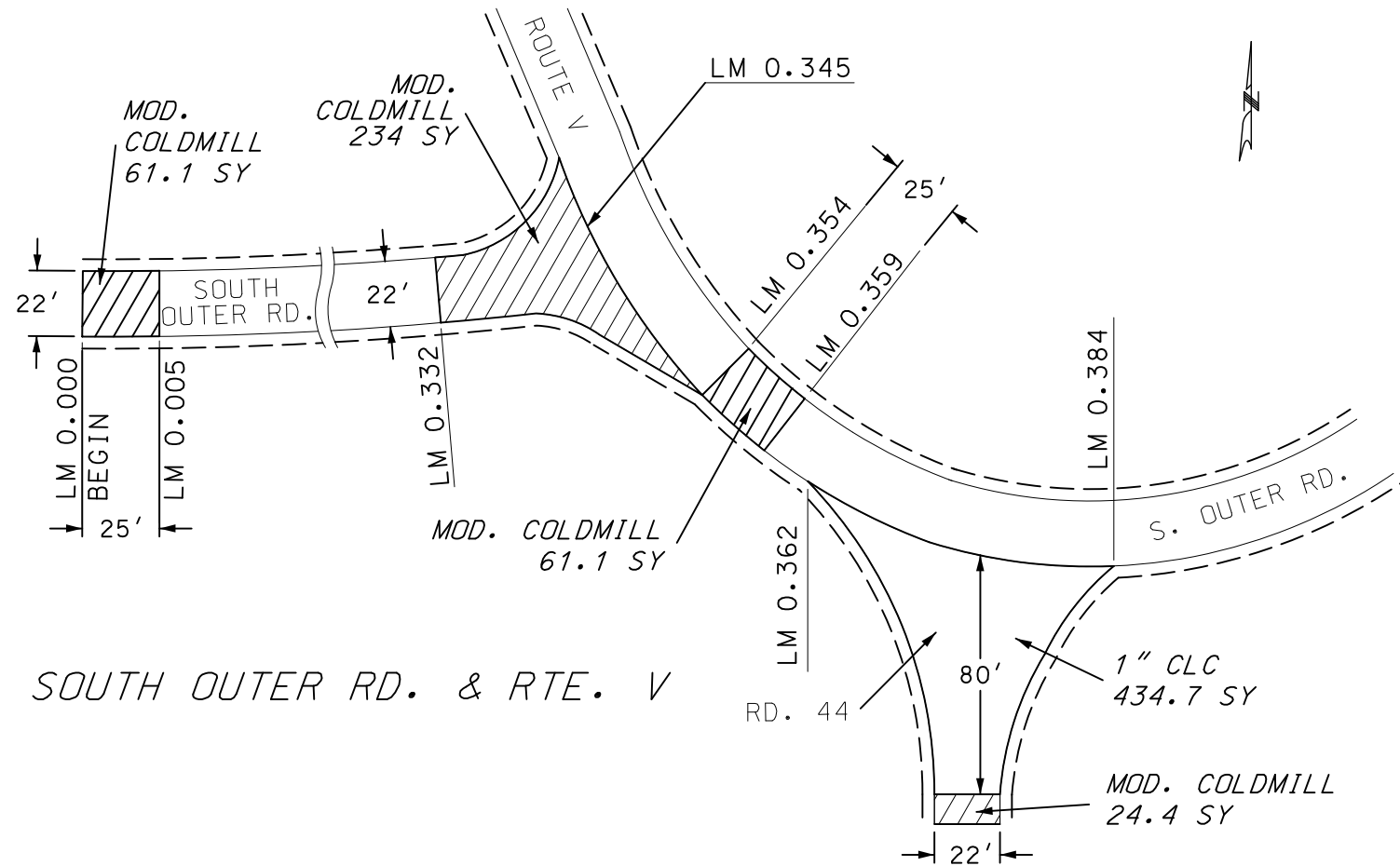
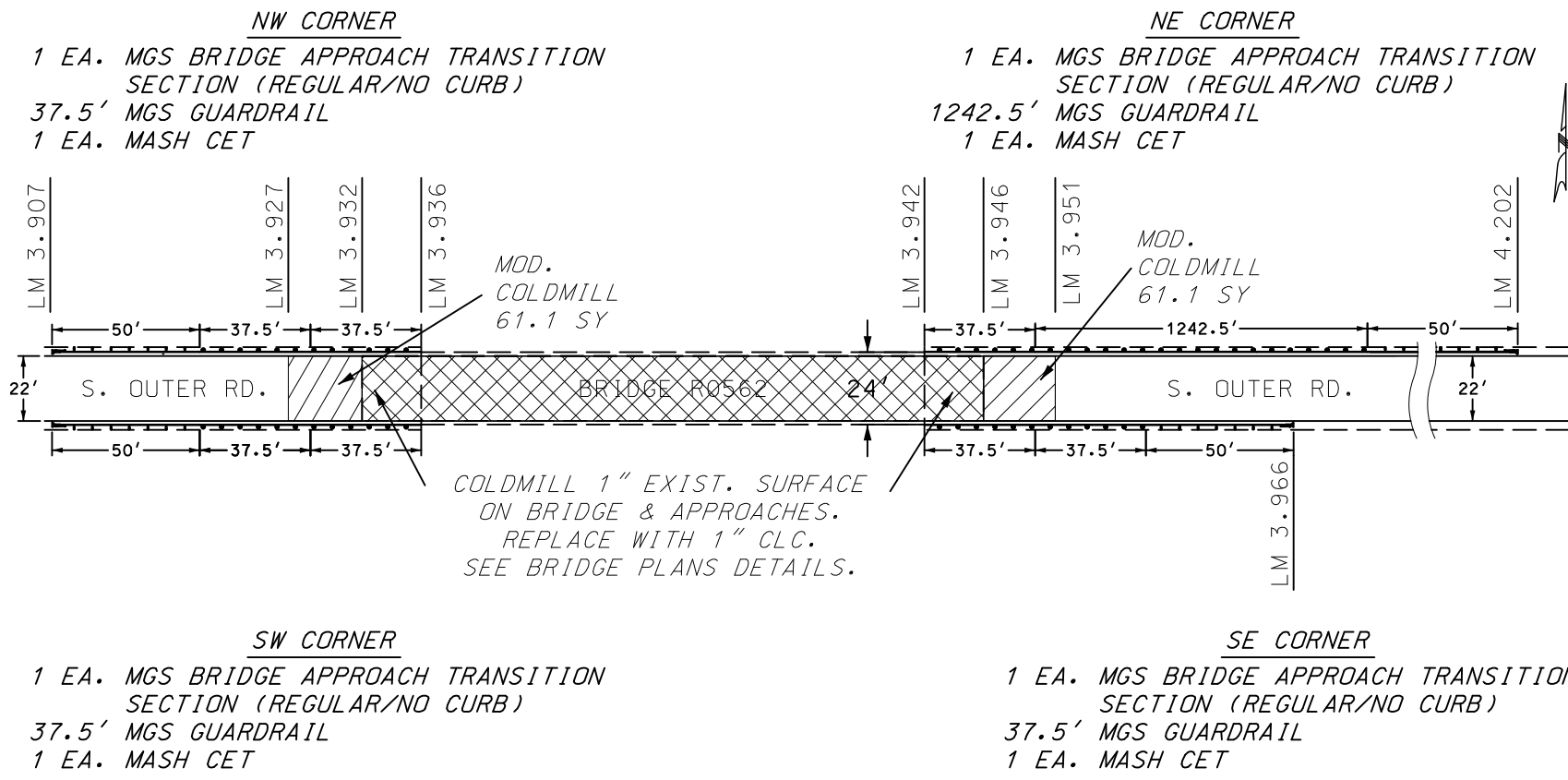
NOT TO SCALE

SPECIAL SHEET  
SIDE ROUTES  
SHEET 3 OF 14

SOUTH OUTER RD. & MARION DR.



SOUTH OUTER RD. (BRIDGE R0562) RTE. V TO RTE. MARION DR.



MOD. COLDMILLING NOT TO SCALE

SPECIAL SHEET SHEET 4 OF 14

STATE OF MISSOURI  
 JAMES V. BEATTIE  
 NUMBER PE-2018021150  
 PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED 9/18/2024

ROUTE	STATE
VARIOUS	MO
DISTRICT	SHEET NO.
CD	7

COUNTY  
 PHELPS/PULASKI

JOB NO.  
 JCD0085

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

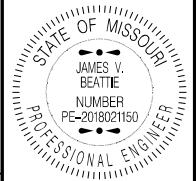
DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

MoDOT

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

SOUTH OUTER RD.  
(RTE. V TO JAMES BLVD.)



THIS SHEET HAS BEEN  
SIGNED, SEALED AND DATED  
ELECTRONICALLY.

DATE PREPARED  
8/22/2024

ROUTE	STATE
VARIOUS	MO
DISTRICT	SHEET NO.
CD	8

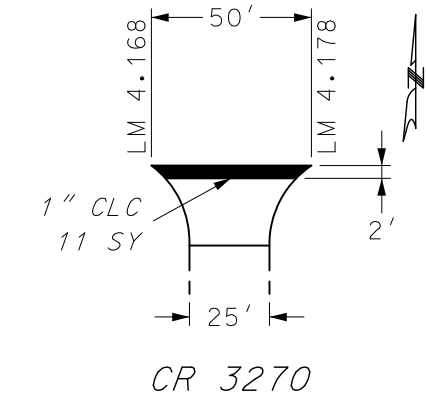
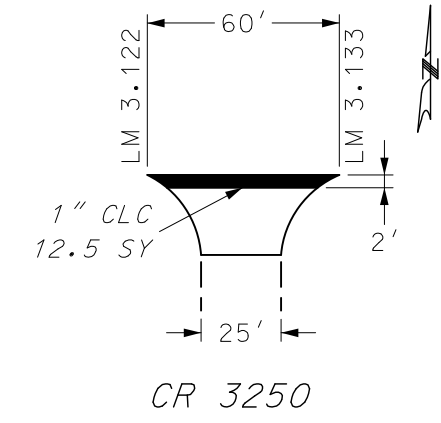
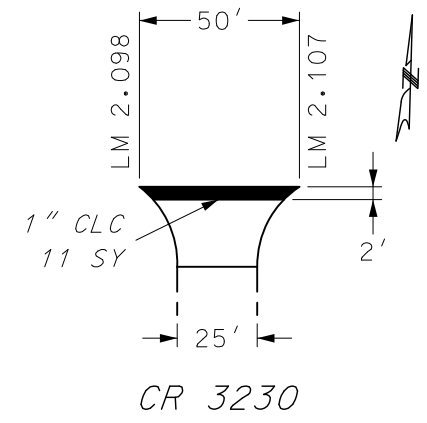
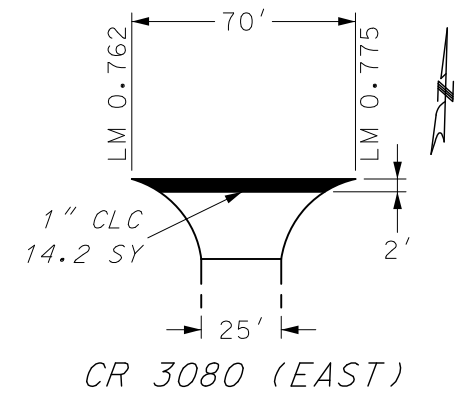
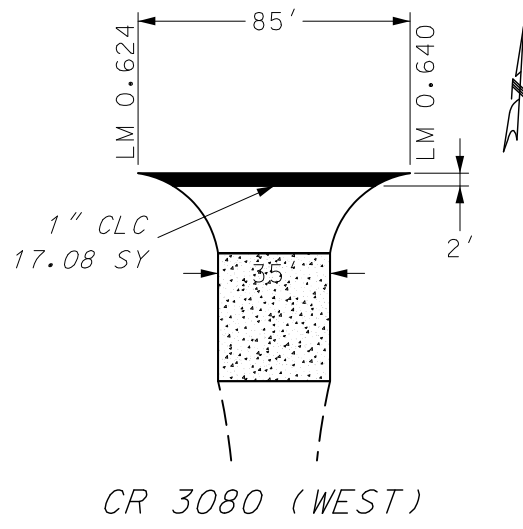
COUNTY  
PHELPS/PULASKI

JOB NO.  
JCD0085

CONTRACT ID.

PROJECT NO.

BRIDGE NO.



DATE	DESCRIPTION

	- MOD. COLDMILLING
	- CONCRETE

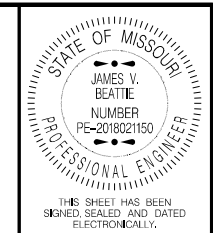
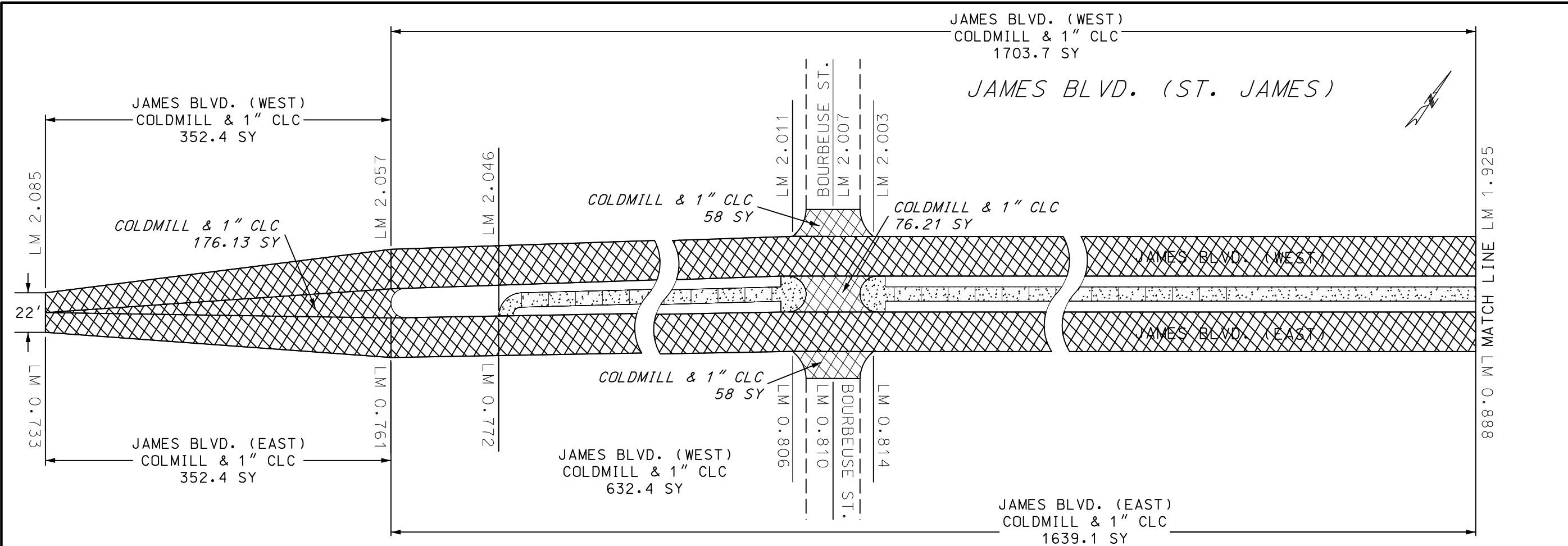
NOTE: VERIFY LOCATIONS IN THE FIELD BEFORE INSTALLATION.

NOT TO SCALE

SPECIAL SHEET  
SIDE ROUTES  
SHEET 5 OF 14

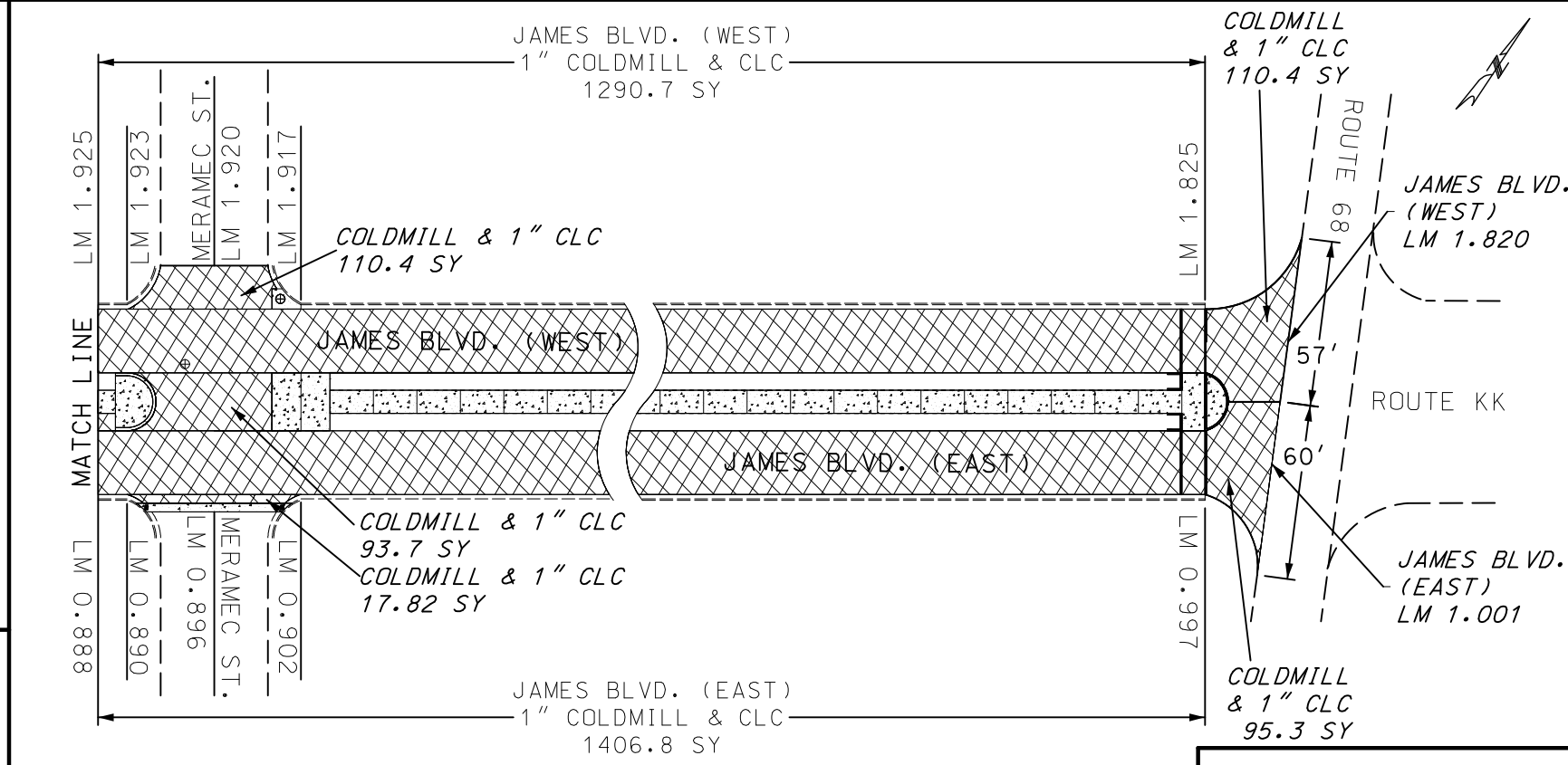
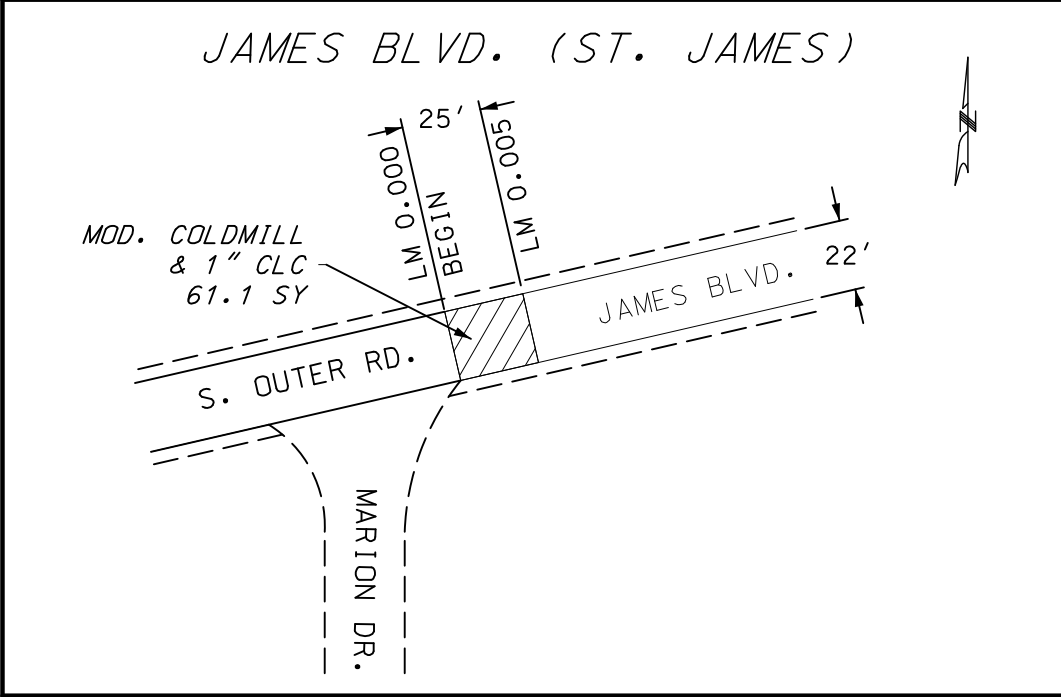
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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



DATE PREPARED		9/18/2024	
ROUTE	STATE	VARIOUS	MO
DISTRICT	SHEET NO.	CD	9
COUNTY			
PHELPS/PULASKI			
JOB NO.			
JCD0085			
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)

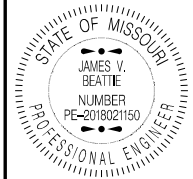
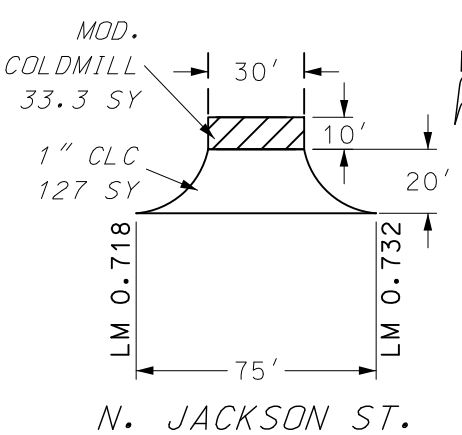
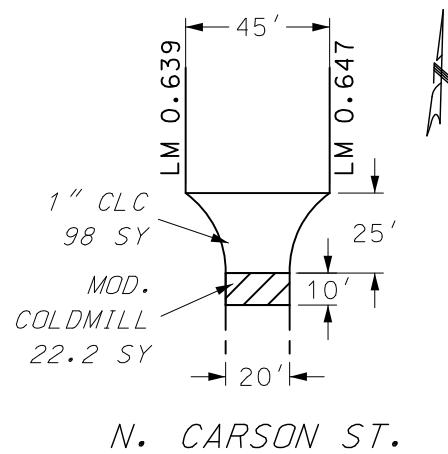
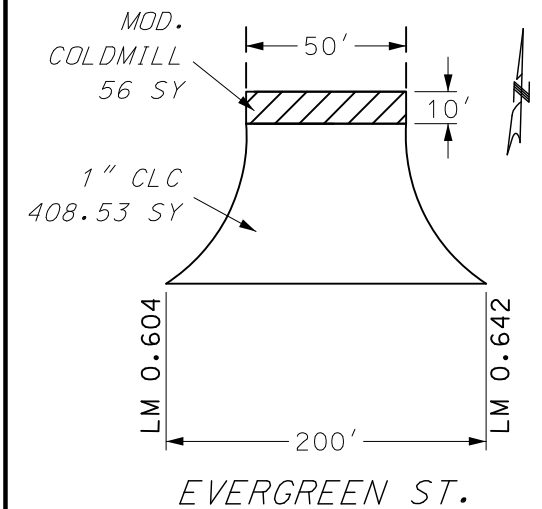
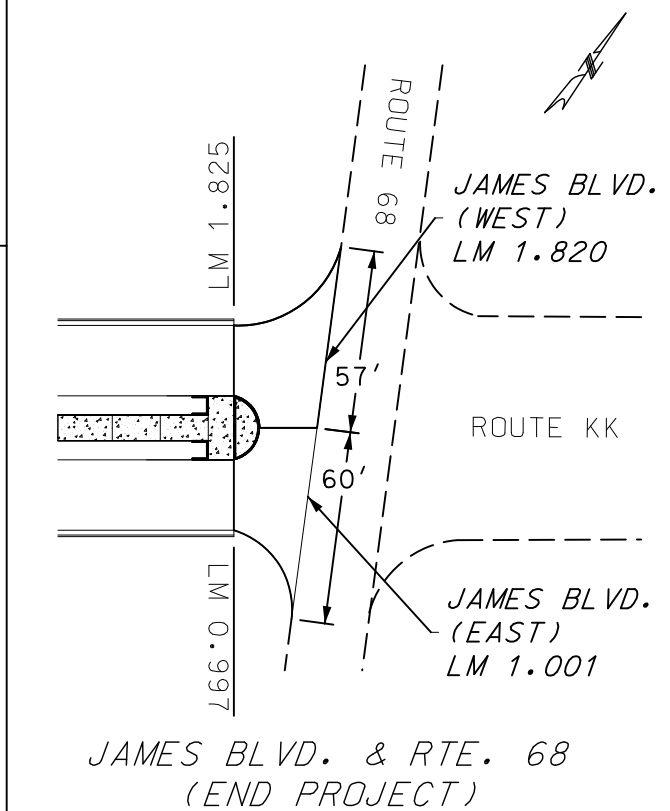
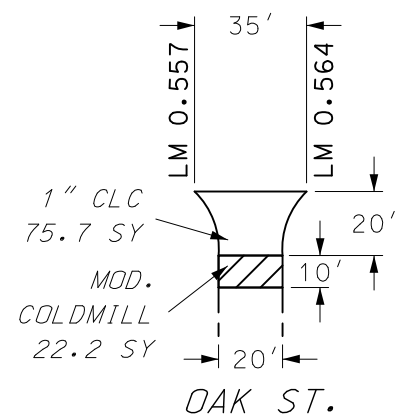
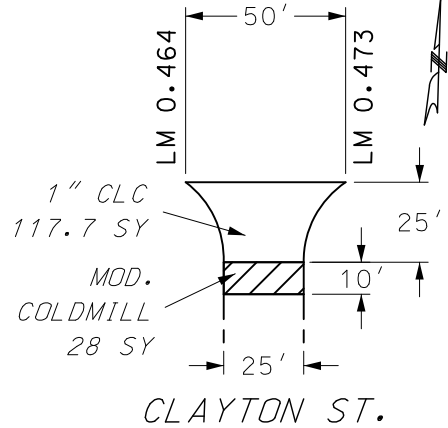
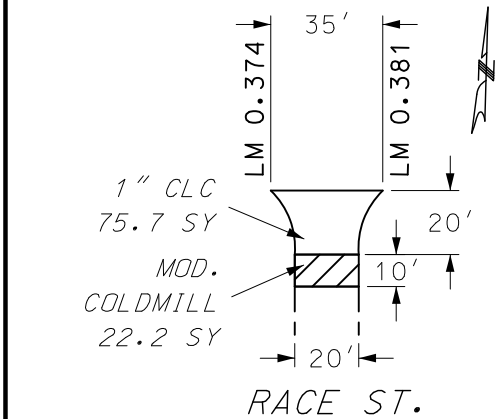
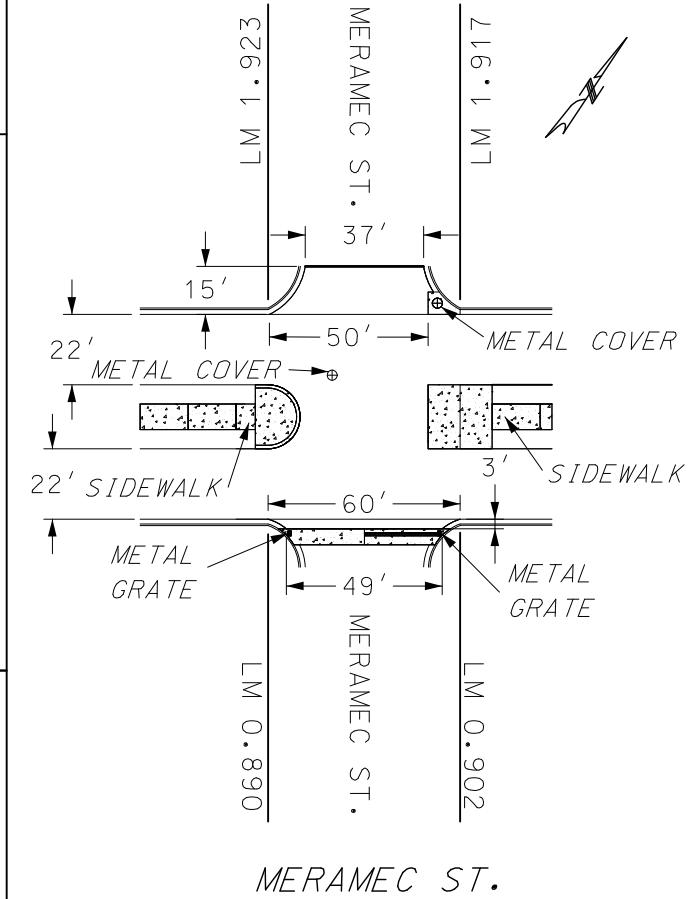
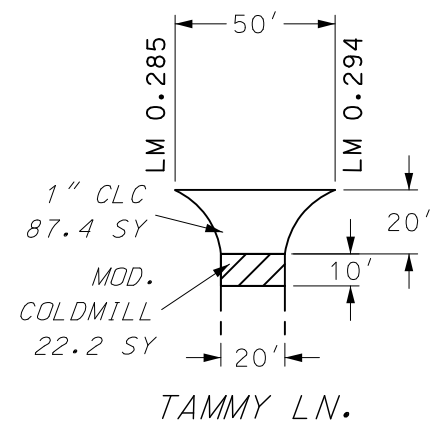
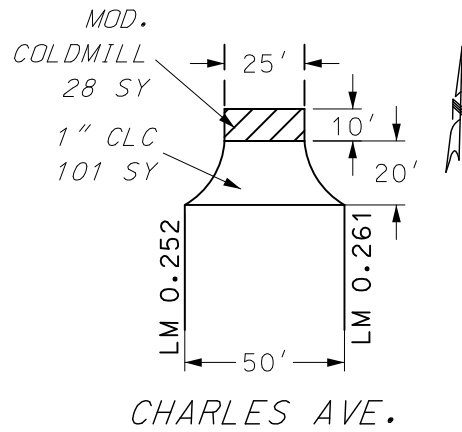
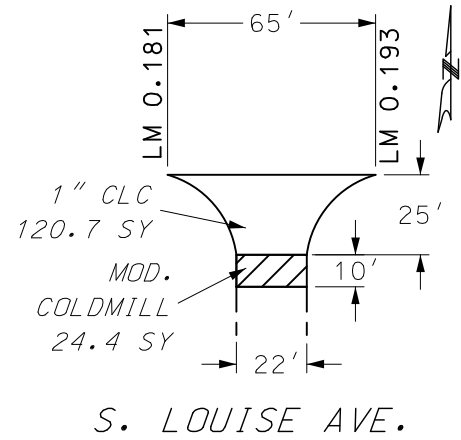
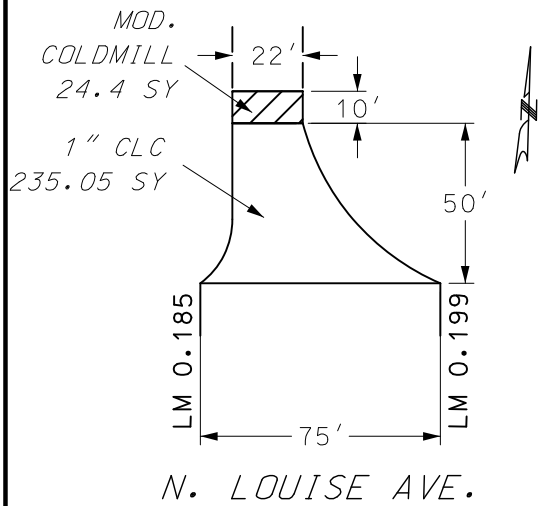
**NOTES:**  
 THE FINISHED EDGE OF PAVEMENT SHALL BE FLUSH WITH PEDESTRIAN FACILITY CURB RAMPS AND SIDEWALKS AT CROSSWALKS.  
 VERIFY LOCATIONS IN THE FIELD BEFORE INSTALLATION.

JAMES BLVD. (ST. JAMES)

NOT TO SCALE

SPECIAL SHEET  
 JAMES BLVD.  
 SHEET 6 OF 14

JAMES BLVD.  
(RTE. V TO RTE. 68)



DATE PREPARED 8/22/2024	
ROUTE VARIOUS	STATE MO
DISTRICT CD	SHEET NO. 10
COUNTY PHELPS/PULASKI	
JOB NO. JCD0085	
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)

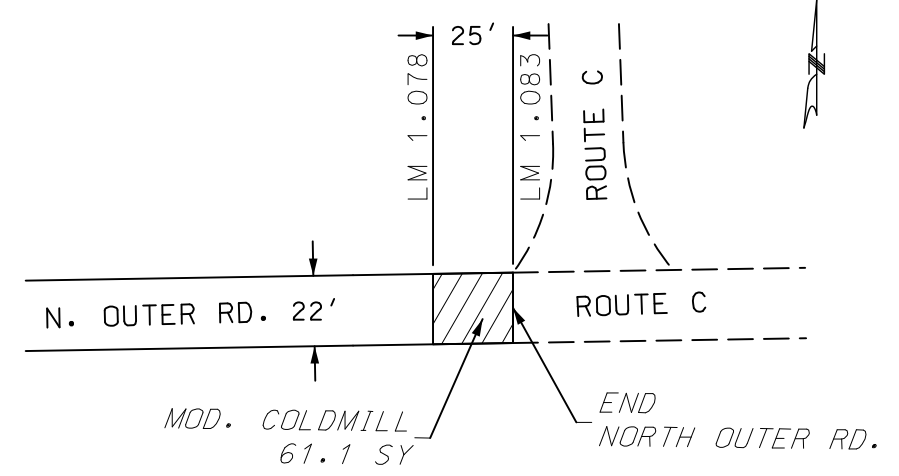
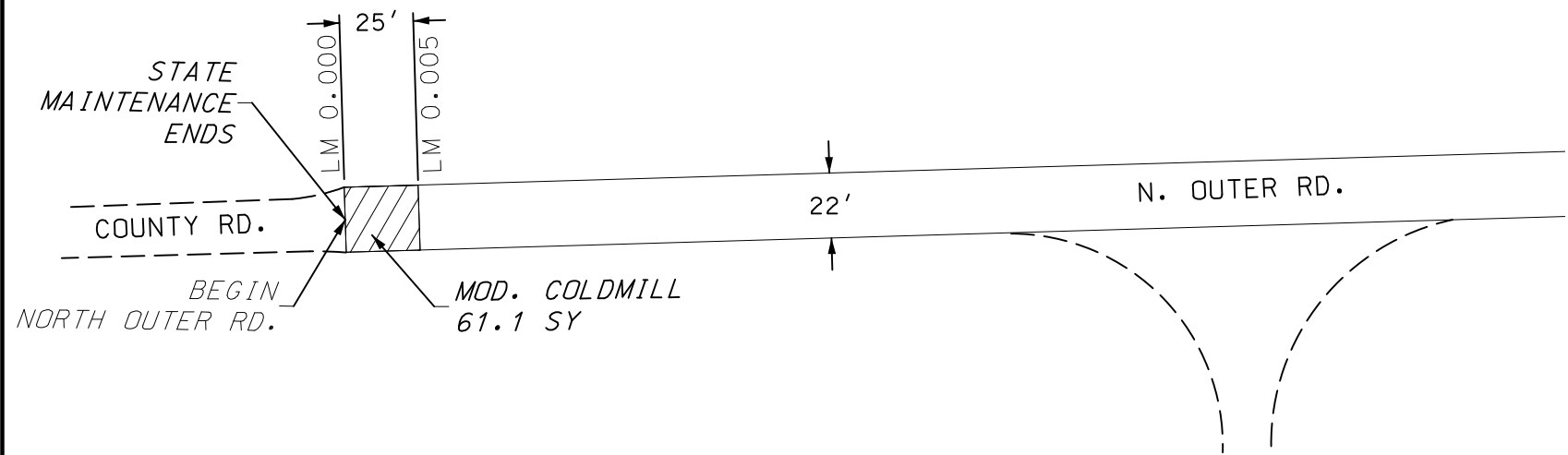
- MOD. COLDMILLING  
 - CONCRETE

NOTE: VERIFY LOCATIONS IN THE FIELD BEFORE INSTALLATION.

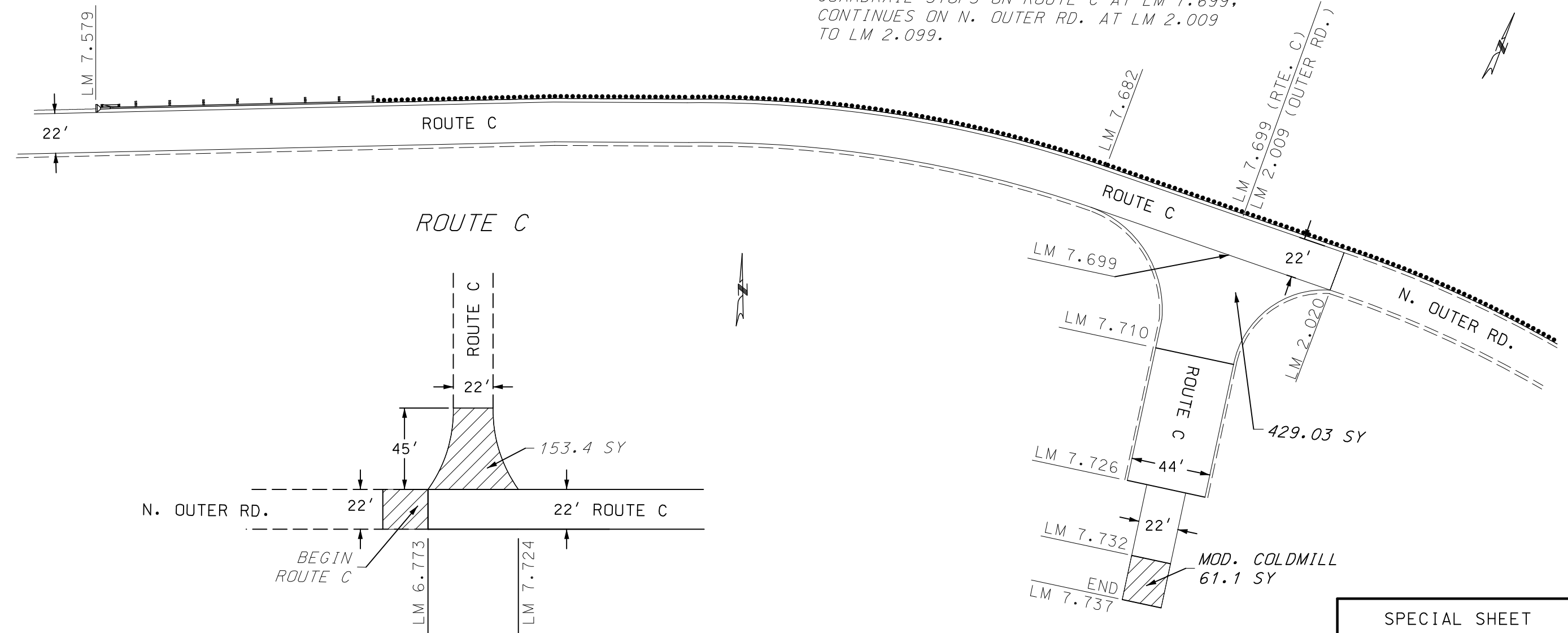
NOT TO SCALE

SPECIAL SHEET  
JAMES BLVD.  
SHEET 7 OF 14

NORTH OUTER RD. (THRU DOOLITTLE)

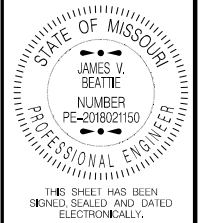


NOTE:  
REPLACE EXIST. GUARDRAIL,  
GUARDRAIL STOPS ON ROUTE C AT LM 7.699,  
CONTINUES ON N. OUTER RD. AT LM 2.009  
TO LM 2.099.



NOT TO SCALE

SPECIAL SHEET  
ROUTE C  
SHEET 8 OF 14



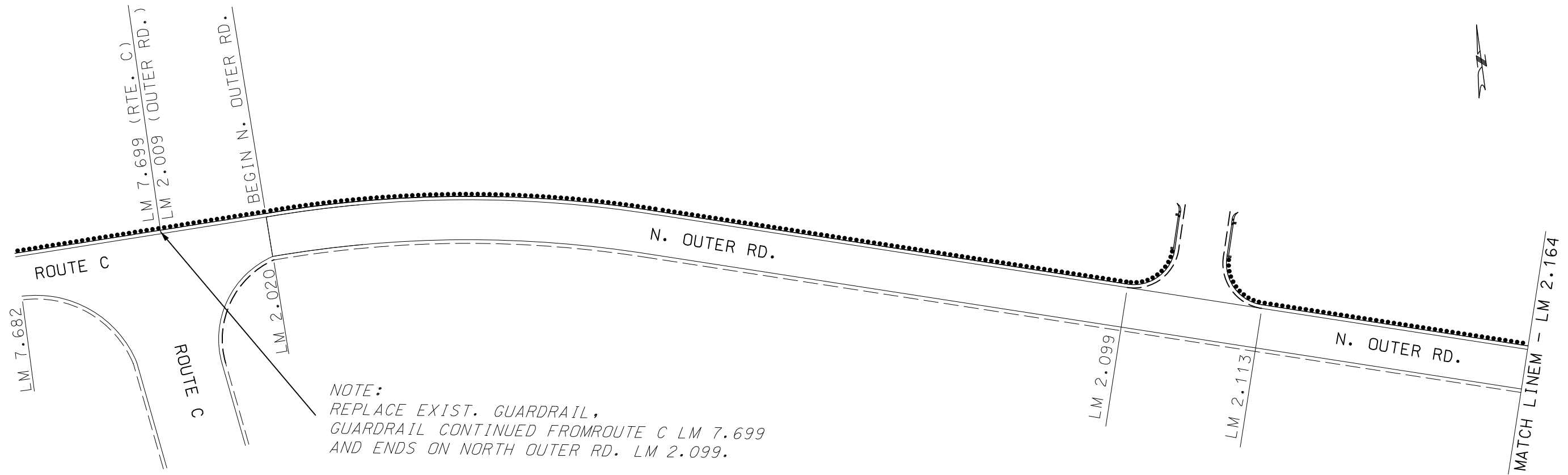
DATE PREPARED		8/22/2024	
ROUTE	STATE	VARIOUS	MO
DISTRICT	SHEET NO.	CD	11
COUNTY			
PHELPS/PULASKI			
JOB NO.			
JCD0085			
CONTRACT ID.			
PROJECT NO.			
BRIDGE NO.			

DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

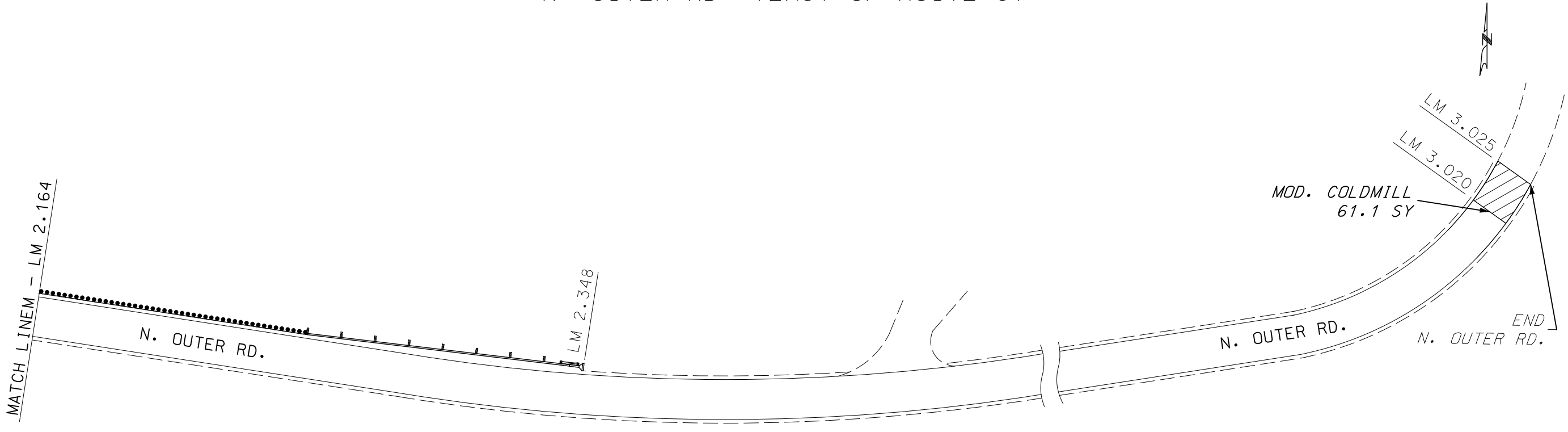
105 WEST CAPITOL  
JEFFERSON CITY, MO 65102  
1-888-ASK-MODOT (1-888-273-6636)

N. OUTER RD. (EAST OF ROUTE C)



NOTE:  
 REPLACE EXIST. GUARDRAIL,  
 GUARDRAIL CONTINUED FROM ROUTE C LM 7.699  
 AND ENDS ON NORTH OUTER RD. LM 2.099.

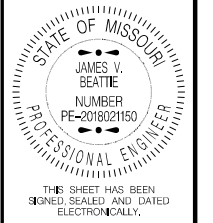
N. OUTER RD. (EAST OF ROUTE C)



MOD. COLDMILL  
 61.1 SY

SPECIAL SHEET  
 NORTH OUTER RD.  
 SHEET 9 OF 14

NOT TO SCALE



DATE PREPARED		8/22/2024	
ROUTE	STATE	VARIOUS	MO
DISTRICT	SHEET NO.	CD	12
COUNTY			
PHELPS/PULASKI			
JOB NO.			
JCD0085			
CONTRACT ID.			
PROJECT NO.			
BRIDGE NO.			

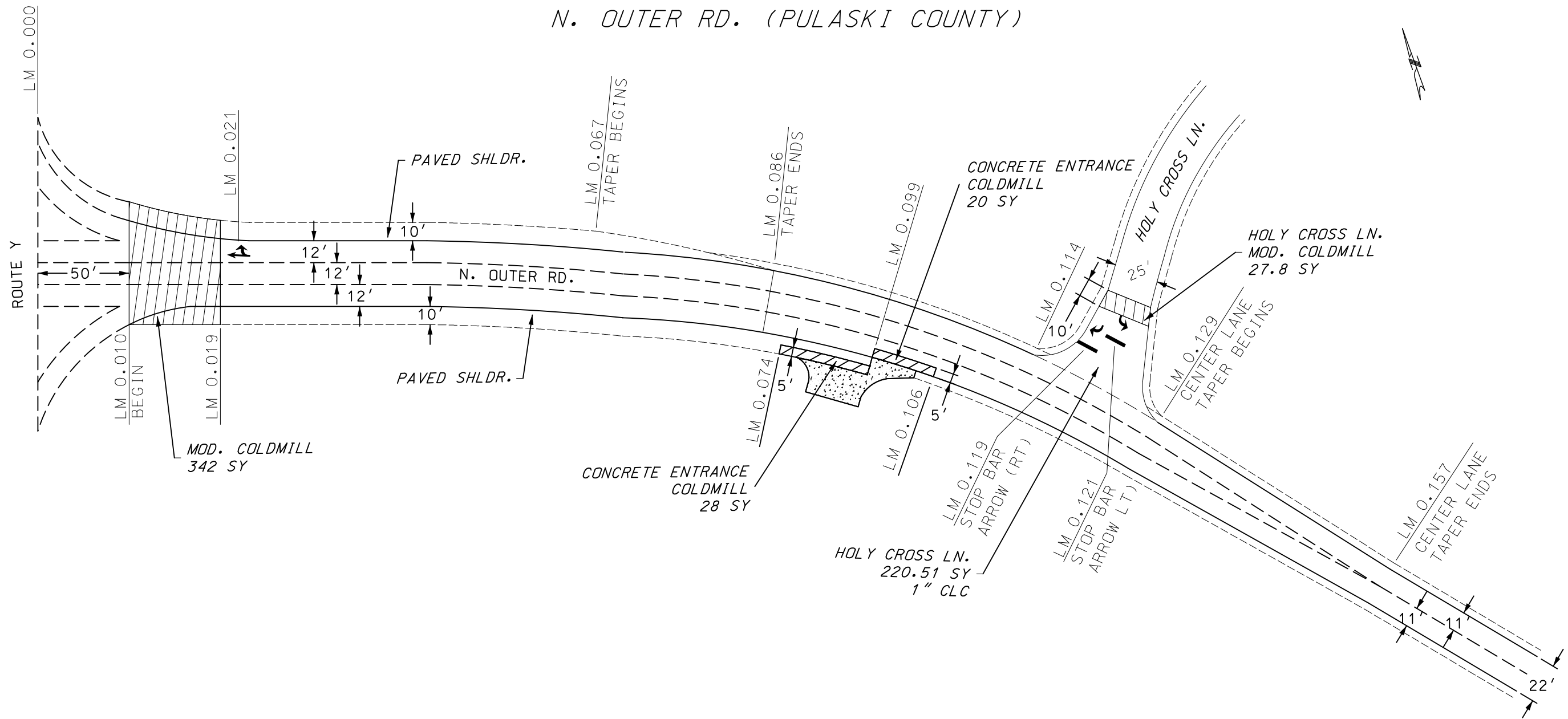
DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

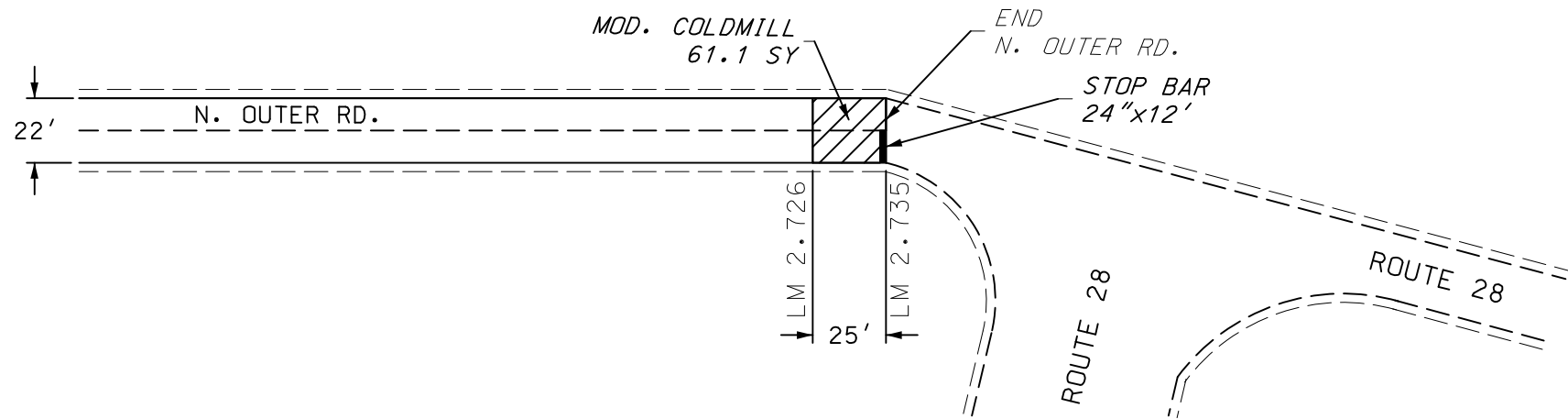
105 WEST CAPITOL  
 JEFFERSON CITY, MO 65102  
 1-888-ASK-MODOT (1-888-275-6636)



N. OUTER RD. (PULASKI COUNTY)

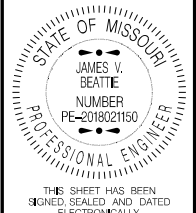


N. OUTER RD. (PULASKI COUNTY)



NOT TO SCALE

SPECIAL SHEET  
SHEET 10 OF 14



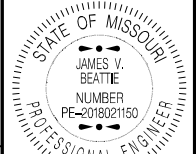
DATE PREPARED 8/22/2024	
ROUTE VARIOUS	STATE MO
DISTRICT CD	SHEET NO. 13
COUNTY PHELPS/PULASKI	
JOB NO. JCD0085	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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

NORTH OUTER RD. (PULASKI COUNTY)  
(RTE. Y TO RTE. 28)



THIS SHEET HAS BEEN  
SIGNED, SEALED AND DATED  
ELECTRONICALLY.

DATE PREPARED  
8/22/2024

ROUTE	STATE
VARIOUS	MO
DISTRICT	SHEET NO.
CD	14

COUNTY  
PHELPS/PULASKI

JOB NO.  
JCD0085

CONTRACT ID.

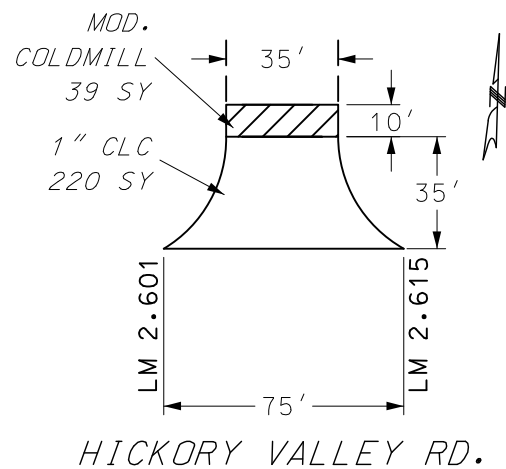
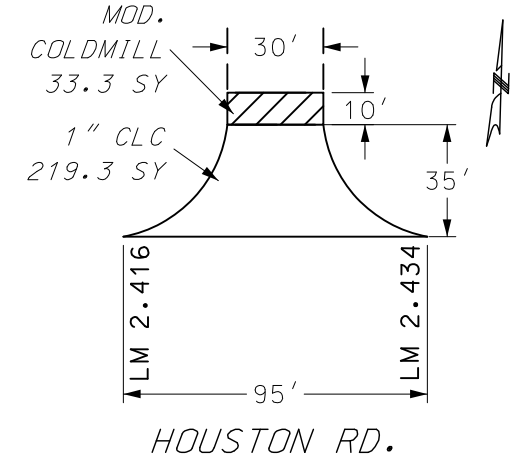
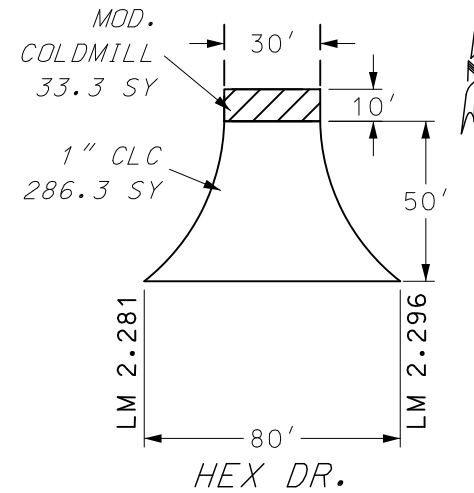
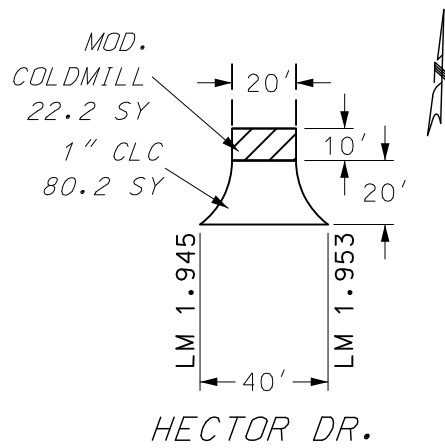
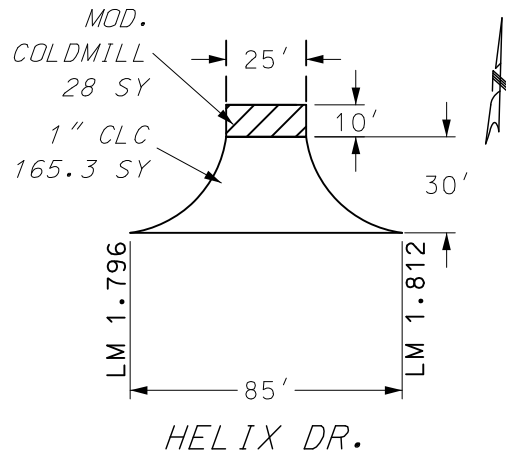
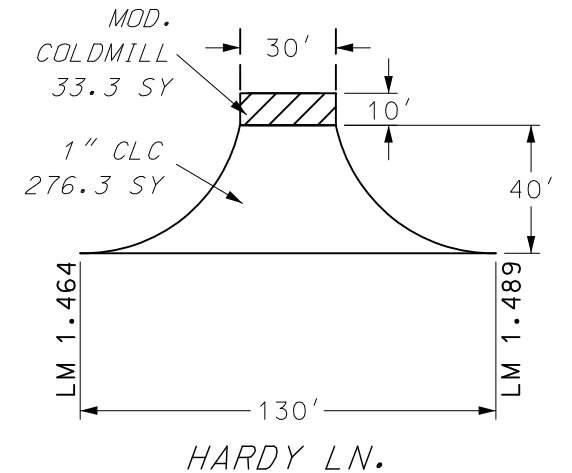
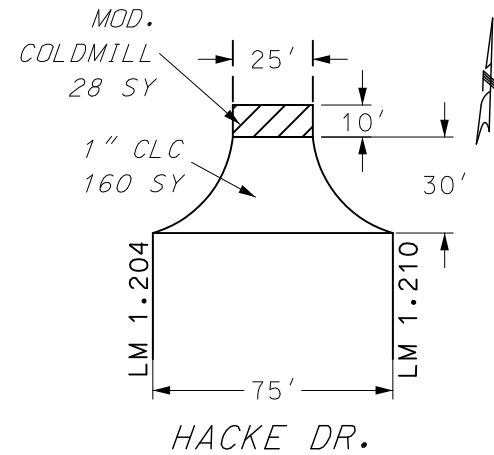
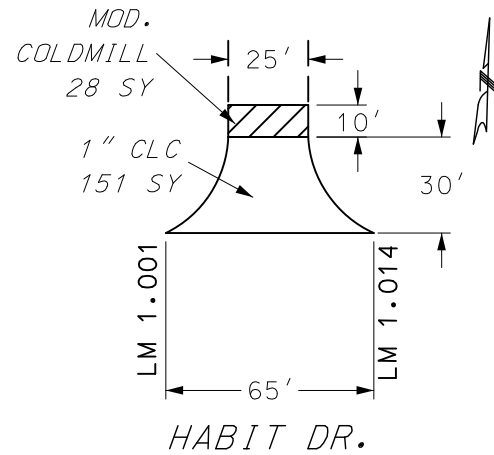
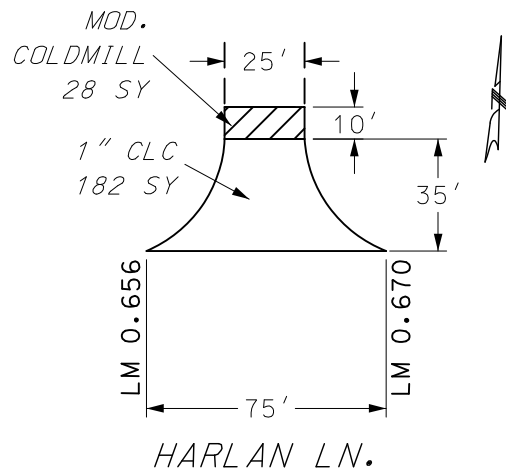
PROJECT NO.

BRIDGE NO.

DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION  
COMMISSION

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

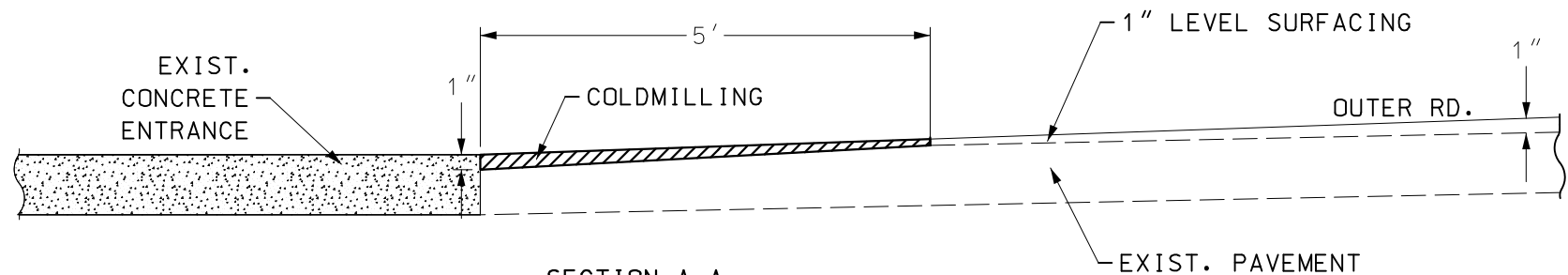


- MOD. COLDMILLING

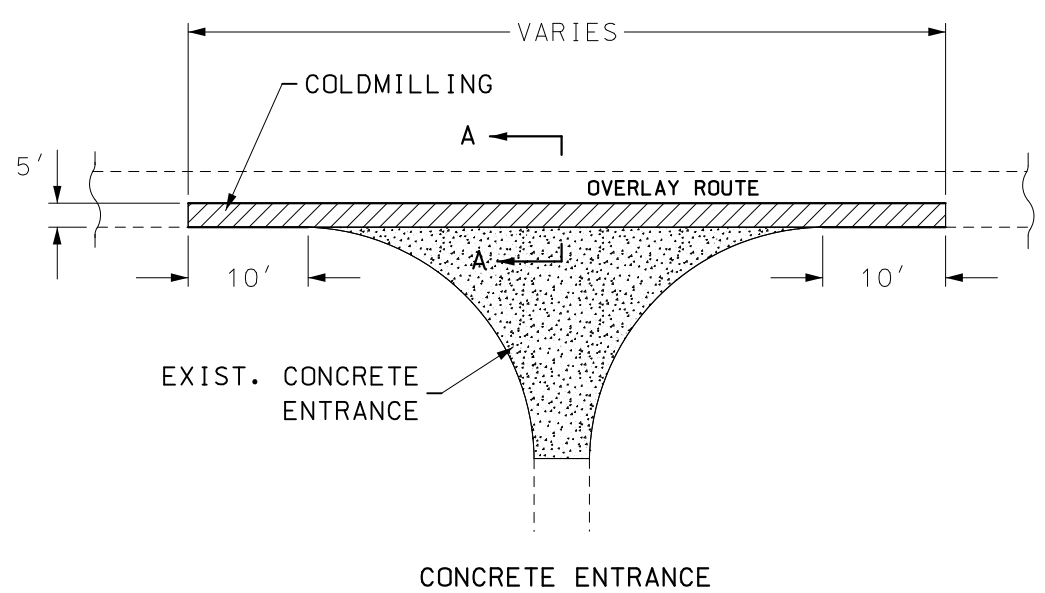
NOTE: VERIFY LOCATIONS IN THE FIELD BEFORE INSTALLATION.

NOT TO SCALE

SPECIAL SHEET  
SIDE ROUTES  
SHEET 11 OF 14



SECTION A-A  
CONCRETE ENTRANCE  
MOD. COLDMILL & DEPTH TRANSITION



*COLDMILL FOR CONCRETE ENTRANCES*

NORTH OUTER RD. (CR 2000 TO RTE. V)  
 LM 0.623 TO LM 0.639 (LT)  
 LM 0.754 TO LM 0.770 (LT)  
 LM 0.774 TO LM 0.795 (LT)

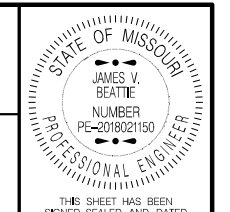
NORTH OUTER RD. (RTE. V TO RTE. 68)  
 LM 0.077 TO LM 0.120 (LT)  
 LM 0.226 TO LM 0.242 (LT)  
 LM 4.749 TO LM 4.765 (LT)  
 LM 5.440 TO LM 5.457 (LT)  
 LM 5.515 TO LM 5.526 (LT)  
 LM 5.552 TO LM 5.563 (LT)  
 LM 5.579 TO LM 5.590 (LT)  
 LM 5.709 TO LM 5.720 (LT)  
 LM 5.828 TO LM 5.842 (LT)  
 LM 5.873 TO LM 5.964 (LT)

SOUTH OUTER RD. (SME TO RTE. V)  
 LM 0.103 TO LM 0.162 (RT)  
 LM 0.170 TO LM 0.215 (RT)

SOUTH OUTER RD. (RTE. V TO MARION DR.)  
 LM 0.671 TO LM 0.675 (RT)  
 LM 1.103 TO LM 1.115 (RT)  
 LM 2.321 TO LM 2.335 (RT)  
 LM 5.139 TO LM 5.149 (RT)  
 LM 5.161 TO LM 5.171 (RT)

JAMES BLVD. (MARION DR. TO RTE. 68/8)  
 LM 0.046 TO LM 0.051 (LT)  
 LM 0.063 TO LM 0.068 (LT)  
 LM 0.101 TO LM 0.109 (LT)  
 LM 0.165 TO LM 0.175 (RT)  
 LM 0.205 TO LM 0.218 (LT)  
 LM 0.446 TO LM 0.460 (LT)  
 LM 0.508 TO LM 0.522 (LT)  
 LM 0.528 TO LM 0.541 (RT)  
 LM 0.539 TO LM 0.551 (RT)  
 LM 0.804 TO LM 0.817 (LT)  
 LM 0.539 TO LM 0.551 (LT)

NORTH OUTER RD. (PULASKI/RTE. 28 TO RTE. Y)  
 LM 0.073 TO LM 0.108 (RT)  
 LM 0.505 TO LM 0.518 (LT)  
 LM 0.536 TO LM 0.551 (LT)  
 LM 2.702 TO LM 2.737 (LT)



DATE PREPARED 8/22/2024	
ROUTE VARIOUS	STATE MO
DISTRICT CD	SHEET NO. 15
COUNTY PHELPS/PULASKI	
JOB NO. JCD0085	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

DESCRIPTION	DATE

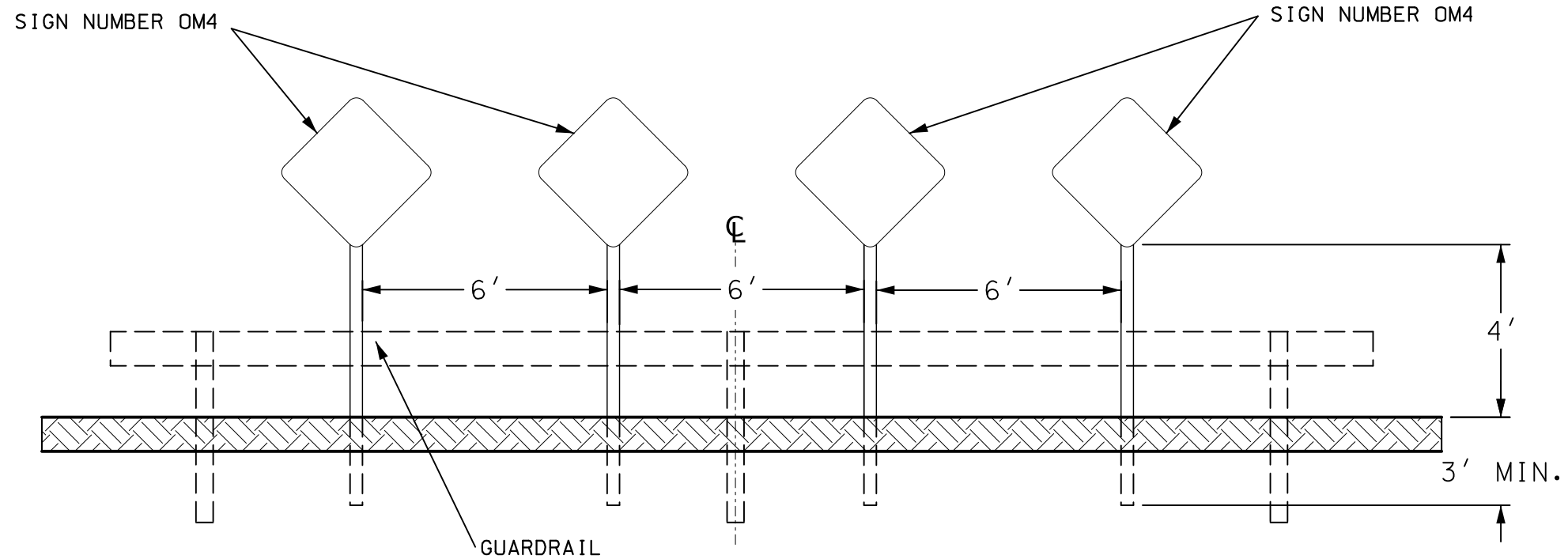
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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

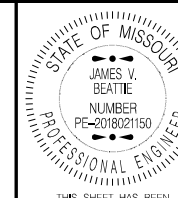
NOTE: VERIFY LOCATIONS IN THE FIELD BEFORE INSTALLATION.

NOT TO SCALE

SPECIAL SHEET  
CONCRETE ENTRANCES  
SHEET 12 OF 14



TYPE 4 OBJECT MARKER INSTALLATION



DATE PREPARED  
8/22/2024

ROUTE STATE  
VARIOUS MO  
DISTRICT SHEET NO.  
CD 16

COUNTY  
PHELPS/PULASKI

JOB NO.  
JCD0085

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION

DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION



EFFECTIVE 10-01-2016

SIGN NUMBER OR SET NUMBER	APPROX. LOG MILE	LOCATION	TYPE				STANDARD SIGN OR SPECIAL SIGN NUMBER	SIGN DETAIL SHEET NO.	NO. EACH	SIZE, TYPE & SQ. FT.	
			OM4	SIGN DESC., SIZES & # OF EACH						SIZE	FLAT SHEET FLUORESCENT SHF * ITEM NO. 9035069A
				18" x 18"							
S1	0.676	N. OUTER RD. / RT.	1				OM4	STD.	12	1.5' X 1.5'	27
S2	0.677	N. OUTER RD. / RT.	1								
S3	0.678	N. OUTER RD. / RT.	1								
S4	0.679	N. OUTER RD. / RT.	1								
S5	1.781	N. OUTER RD. / RT.	1								
S6	1.782	N. OUTER RD. / RT.	1								
S7	1.783	N. OUTER RD. / RT.	1								
S8	1.784	N. OUTER RD. / RT.	1								
S9	1.082	S. OUTER RD. / LT.	1								
S10	1.083	S. OUTER RD. / LT.	1								
S11	1.084	S. OUTER RD. / LT.	1								
S12	1.085	S. OUTER RD. / LT.	1								
TOTAL			12								

\* ORANGE, YELLOW & YELLOW/GREEN

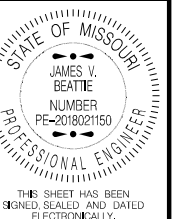
D-30

EFFECTIVE 12-01-2017

SIGN NO. OR SET NO.	SIGN SIZE	APPROX. LOG MILE	HORZ CLEAR IF NOT STD	LOCATION	POST QTY	U CHANNEL POST, 3 LB.		REMARKS AND OTHER REQUIRED ITEMS.
						POST SIZE 14' EACH ITEM NO. 9031250A	EA LF	
S1	1.5' X 1.5'	0.676		N. OUTER RD. / RT.	1	14		REMOVE EXISTING SIGNS & POSTS
S2	1.5' X 1.5'	0.677		N. OUTER RD. / RT.	1	14		REMOVE EXISTING SIGNS & POSTS
S3	1.5' X 1.5'	0.678		N. OUTER RD. / RT.	1	14		REMOVE EXISTING SIGNS & POSTS
S4	1.5' X 1.5'	0.679		N. OUTER RD. / RT.	1	14		REMOVE EXISTING SIGNS & POSTS
S5	1.5' X 1.5'	1.781		N. OUTER RD. / RT.	1	14		REMOVE EXISTING SIGNS & POSTS
S6	1.5' X 1.5'	1.782		N. OUTER RD. / RT.	1	14		REMOVE EXISTING SIGNS & POSTS
S7	1.5' X 1.5'	1.783		N. OUTER RD. / RT.	1	14		
S8	1.5' X 1.5'	1.784		N. OUTER RD. / RT.	1	14		
S9	1.5' X 1.5'	1.082		S. OUTER RD. / LT.	1	14		
S10	1.5' X 1.5'	1.083		S. OUTER RD. / LT.	1	14		
S11	1.5' X 1.5'	1.084		S. OUTER RD. / LT.	1	14		
S12	1.5' X 1.5'	1.085		S. OUTER RD. / LT.	1	14		
SUBTOTAL						168		
TOTAL						168		

NOT TO SCALE

SPECIAL SHEET  
OBJECT MARKERS  
SHEET 13 OF 14



DATE PREPARED  
8/22/2024

ROUTE	STATE
VARIOUS	MO
DISTRICT	SHEET NO.
CD	17

COUNTY  
PHELPS/PULASKI

JOB NO.  
JCD0085

CONTRACT ID.

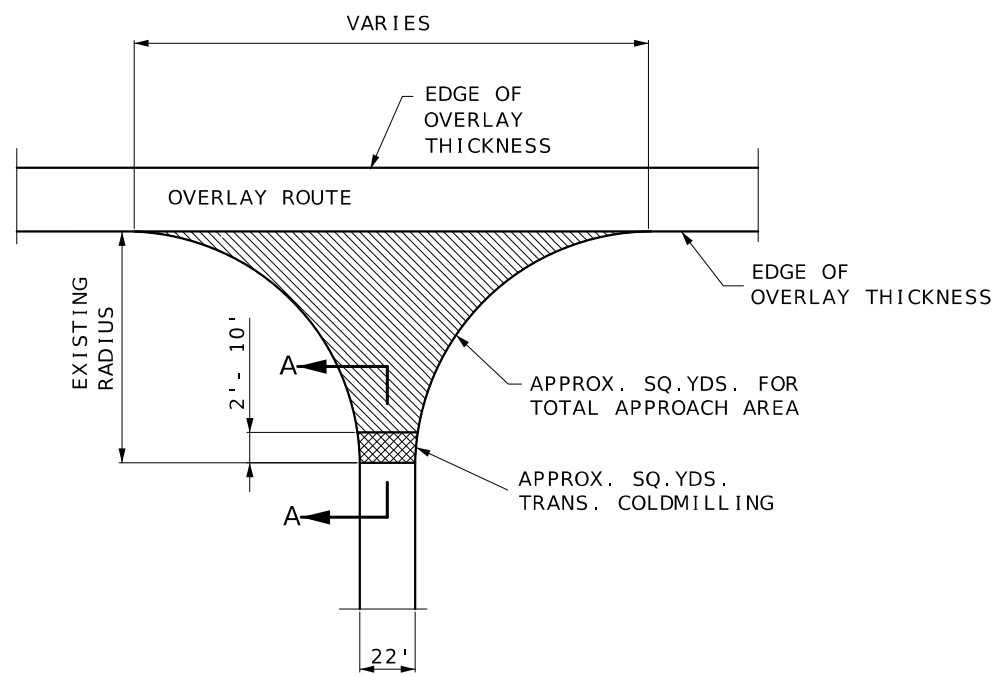
PROJECT NO.

BRIDGE NO.

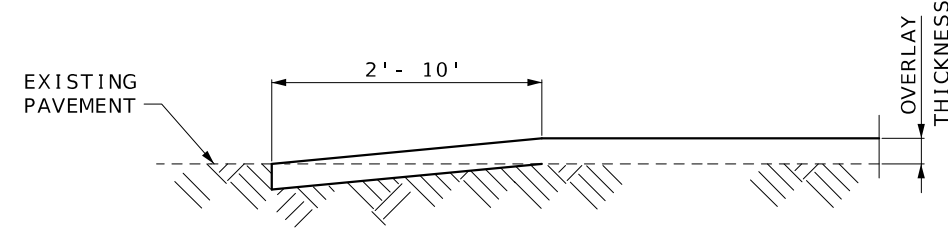
DESCRIPTION	DATE

MISSOURI HIGHWAYS AND TRANSPORTATION  
COMMISSION

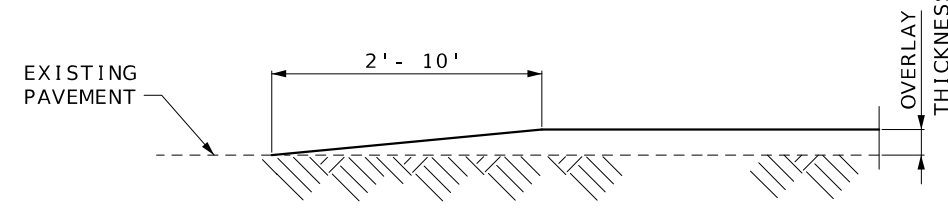
105 WEST CAPITOL  
JEFFERSON CITY, MO 65102  
1-888-ASK-MODOT (1-888-273-6636)



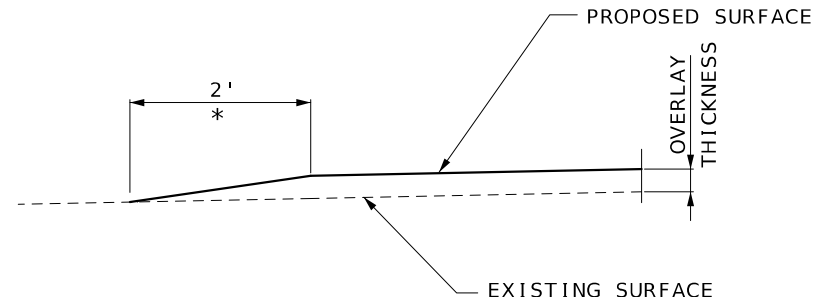
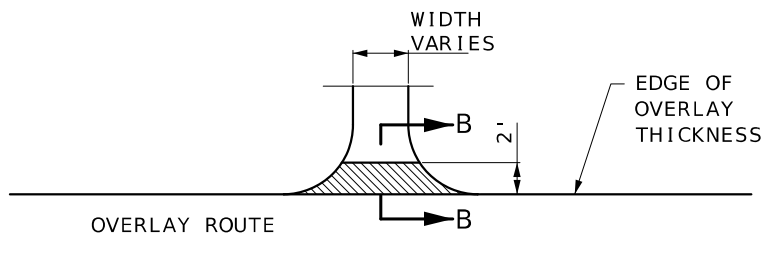
TYPICAL STATE ROUTE JUNCTION



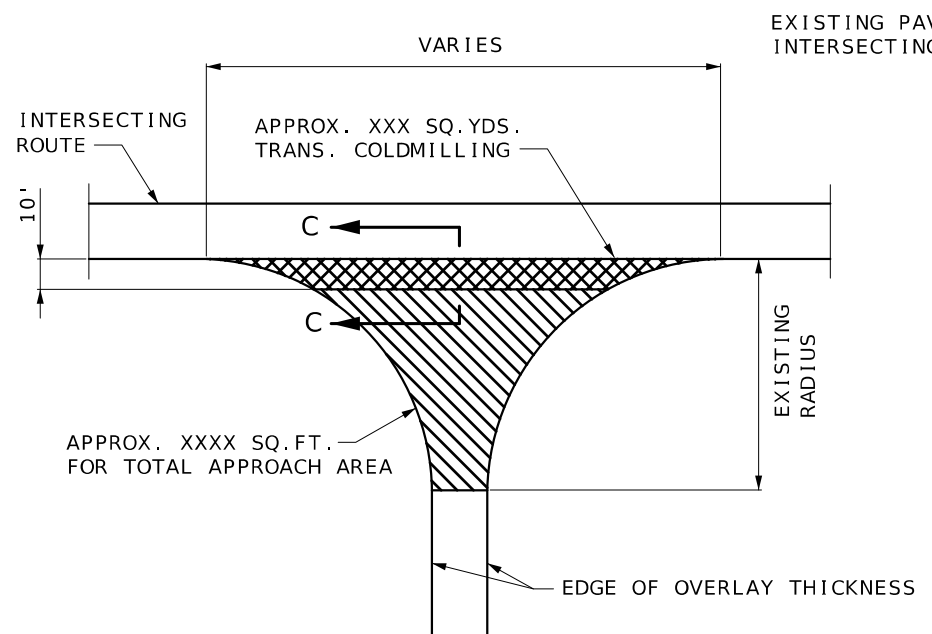
SECTION A-A  
TYPICAL STATE ROUTE JUNCTION  
(COLDMILLED TRANSITION)



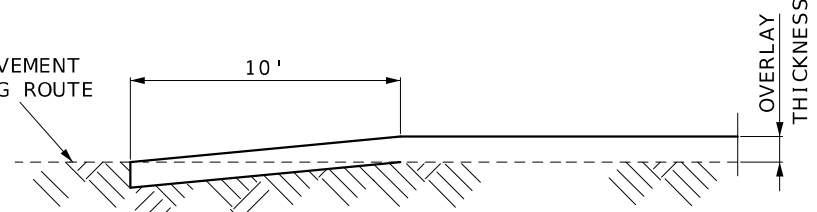
ALTERNATE SECTION A-A  
TYPICAL STATE ROUTE JUNCTION  
(TAPERED TRANSITION)



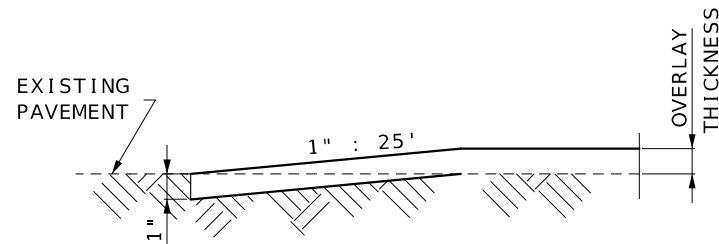
SECTION B-B  
TYPICAL ENTRANCE  
(FIELD, PRIVATE OR COUNTY ROAD)  
\* TAPER AT 1:1 FOR FIELD ENTRANCE



BEGINNING AND END OF PROJECT  
AT INTERSECTING ROUTE



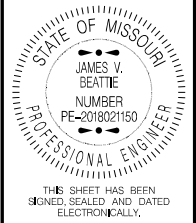
SECTION C-C  
DEPTH TRANSITIONS  
BEGINNING AND END OF PROJECT  
AT INTERSECTING ROUTE



TRAVELWAY DEPTH TRANSITIONS  
BEGINNING AND END OF PROJECT  
AND AT EXCEPTIONS

NOT TO SCALE

SPECIAL SHEET  
TRANSITIONS  
SHEET 14 OF 14



DATE PREPARED  
8/22/2024

ROUTE	STATE
VARIOUS	MO
DISTRICT	SHEET NO.
CD	18

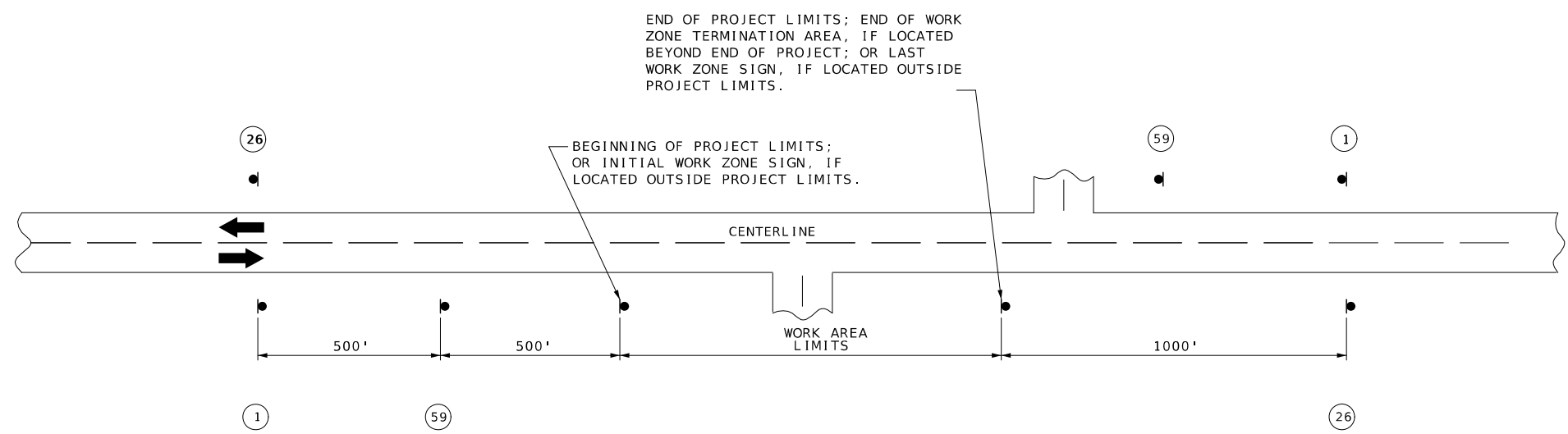
COUNTY  
PHELPS/PULASKI

JOB NO.  
JCD0085

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

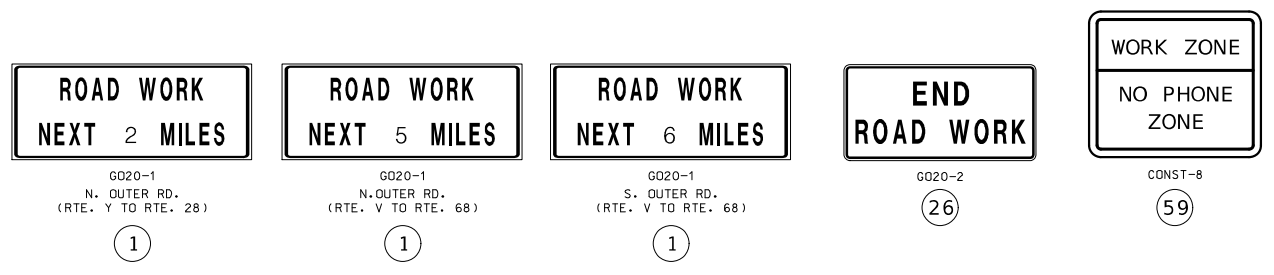


NOTES:

SIGN ① AND ②⑥ ARE ONLY USED ON PROJECT LENGTHS 2 MILES OR GREATER.

PROVIDE SIGNS IN EACH DIRECTION ON TWO-WAY HIGHWAY.

DISTANCE MAY BE ADJUSTED ACCORDING TO FIELD CONDITIONS.



DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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



WO20-1  
2

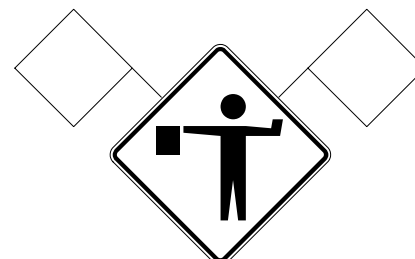


G020-4  
53

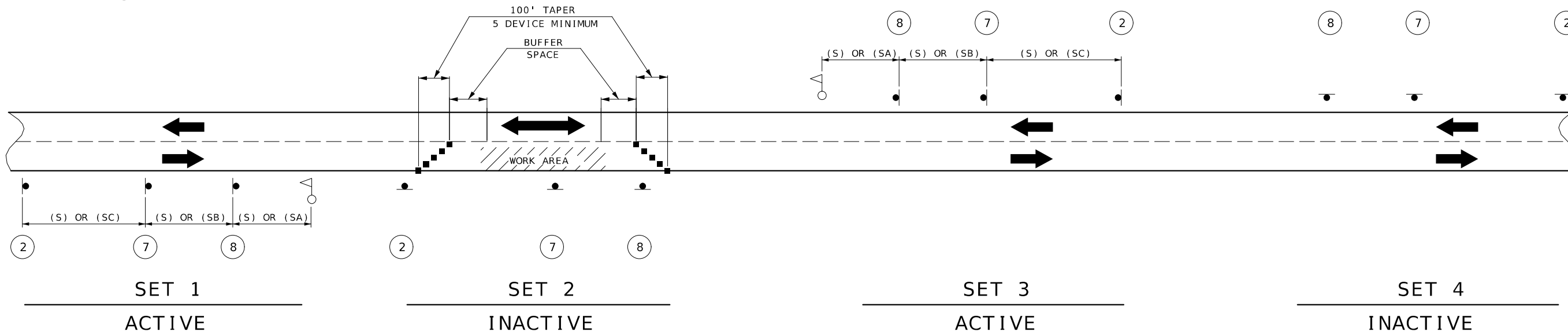
SIGN 53, "PILOT CAR FOLLOW ME" SHALL BE THE CONTRACTOR'S RESPONSIBILITY WHEN IN USE DURING OPERATION.



WO20-4  
7



WO20-7a  
8



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).

■ - CHANNELIZERS

○ - FLAGGER

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.

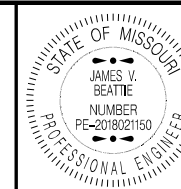
SPEED	SIGN SPACING (FT.) (1)	
	NON-DIVIDED HIGHWAYS (S)	DIVIDED HIGHWAYS (S)
PERMANENT POSTED (MPH)		
0-35	200	200
40-45	350	500
50-55	500	1000
60-70	1000	(SA) -1000 (SB) -1500 (SC) -2640

PERMANENT POSTED SPEED LIMIT (MPH)	BUFFER SPACE LENGTH (FT)
0 - 35	280
40 - 45	400
50 - 55	560
60 - 70	840

NOTES:

(1) SPACING BETWEEN SIGNS, BETWEEN LAST SIGN AND FLAGGER, BEGINNING OF TAPER OR SIGNED CONDITION.

SPACINGS MAY BE ADJUSTED AS NECESSARY TO MEET FIELD CONDITIONS.



THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED

8/22/2024

ROUTE STATE

VARIOUS MO

DISTRICT SHEET NO.

CD 19

COUNTY

PHELPS/PULASKI

JOB NO.

JCD0085

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)

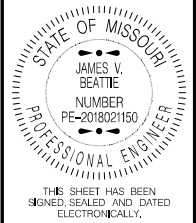


SPEED	SIGN SPACING (FT.)	
	NON-DIVIDED HIGHWAYS (S)	DIVIDED HIGHWAYS (S)
0-35	200	200
40-45	350	500
50-55	500	1000
60-70	1000	(SA)-1000 (SB)-1500 (SC)-2640

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  
8/22/2024

ROUTE STATE  
VARIOUS MO

DISTRICT SHEET NO.  
CD 20

COUNTY  
PHELPS/PULASKI

JOB NO.  
JCD0085

CONTRACT ID.

PROJECT NO.

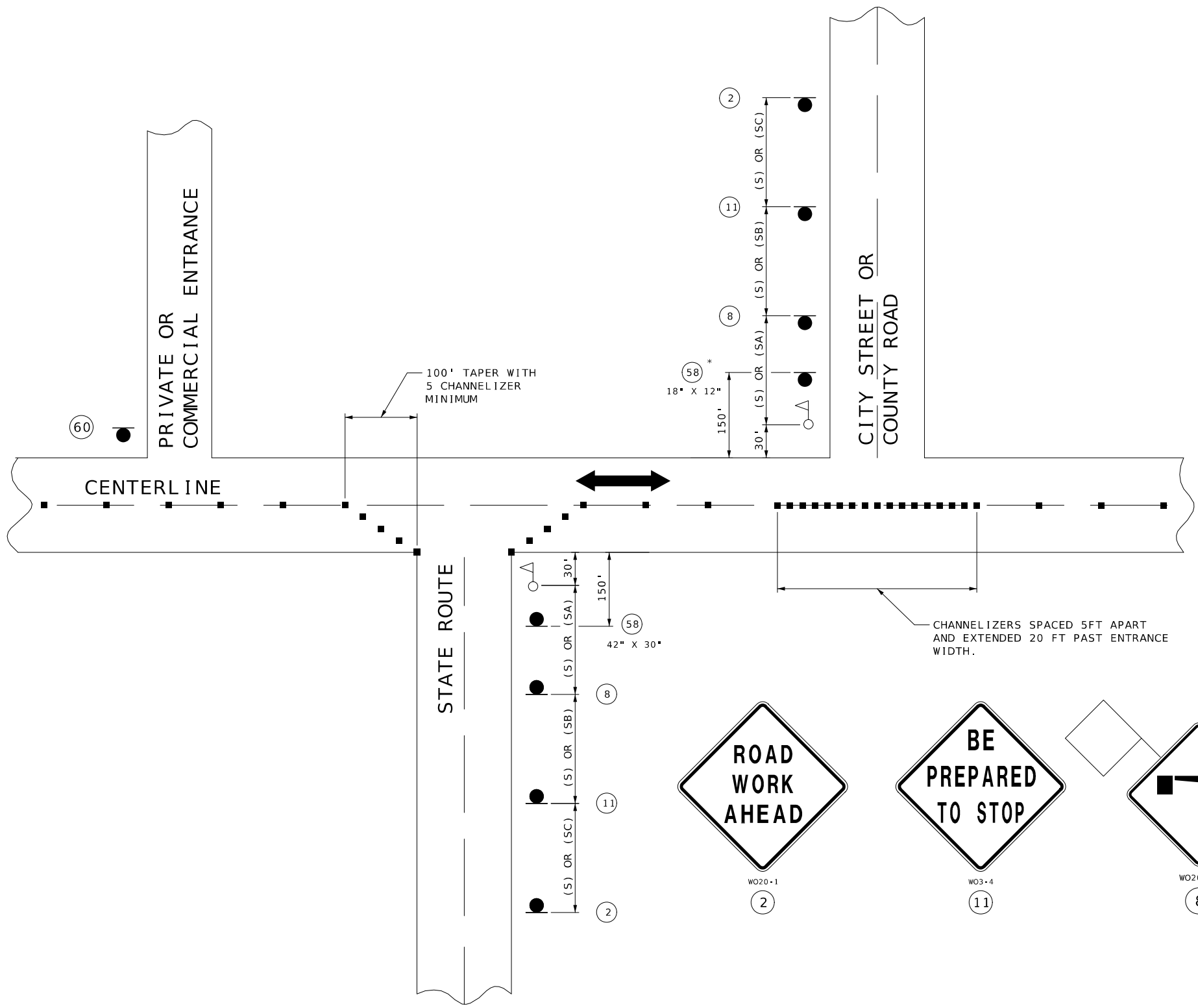
BRIDGE NO.

DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

MoDOT

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



W020-1  
2

W03-4  
11

W020-7a  
8

G020-4a  
58

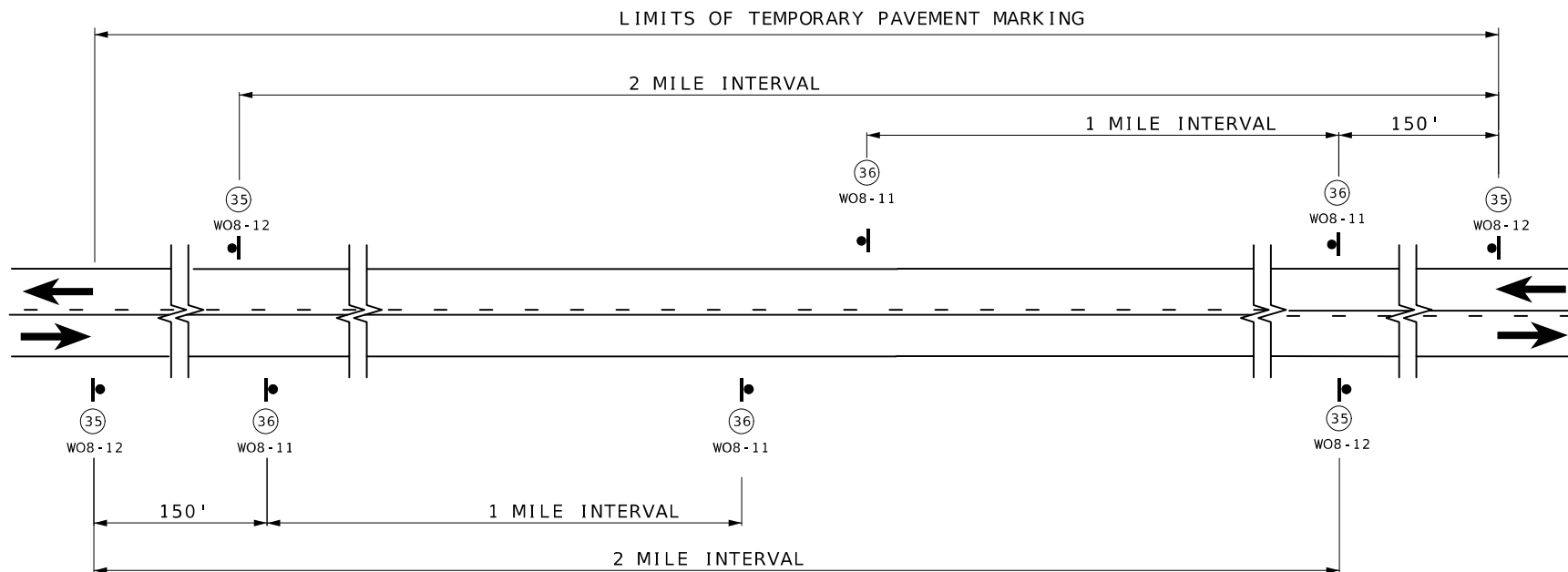
24" X 18"  
60

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

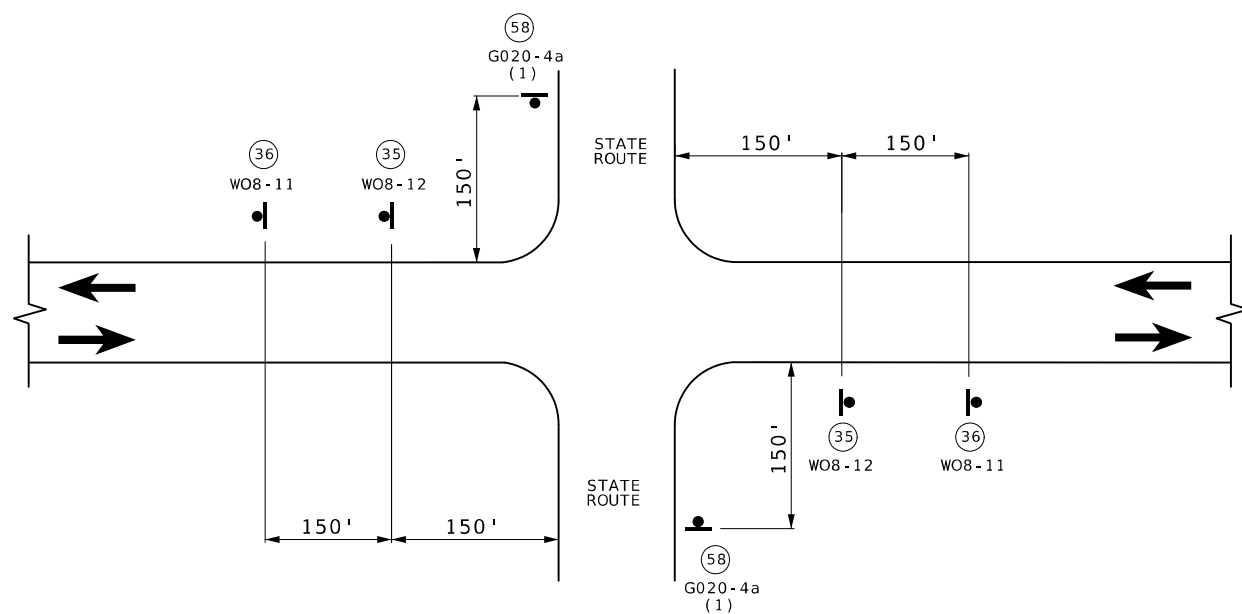
SHALL ONLY BE USED AT PRIVATE AND COMMERCIAL ENTRANCES. SEE STD PLAN 616.10

\* 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:

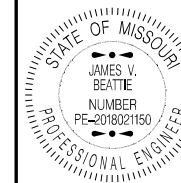
SIGN (35) AND TEMPORARY RAISED PAVEMENT MARKING (SEE STANDARD PLAN 620.10) INSTALLED WHERE CENTERLINE STRIPING HAS BEEN COVERED OR REMOVED. SIGNS ARE TO REMAIN IN PLACE UNTIL THE PERMANENT CENTERLINE PAVEMENT MARKINGS ARE IN PLACE. SIGNS SHALL BE COVERED OR REMOVED WHEN PAVEMENT CENTERLINE MARKING HAS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

TRAFFIC CONTROL SHEET 4 OF 5

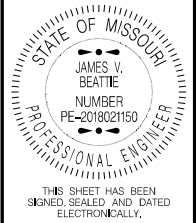


DATE PREPARED 8/22/2024	
ROUTE VARIOUS	STATE MO
DISTRICT CD	SHEET NO. 21
COUNTY PHELPS/PULASKI	
JOB NO.	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

DESCRIPTION	DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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



DATE PREPARED  
**8/22/2024**

ROUTE VARIOUS	STATE MO
DISTRICT CD	SHEET NO. 22

COUNTY  
**PHELPS/PULASKI**

JOB NO.  
**JCD0085**

CONTRACT ID.

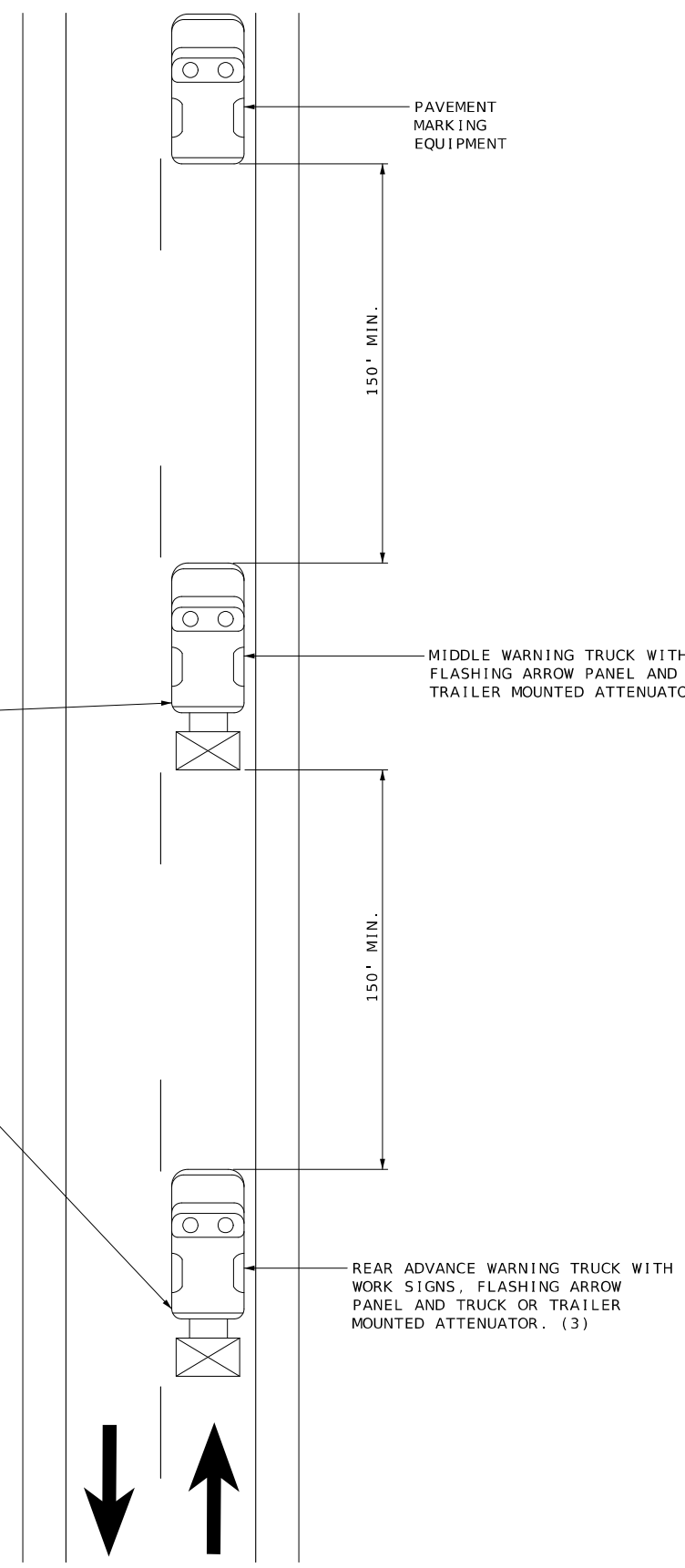
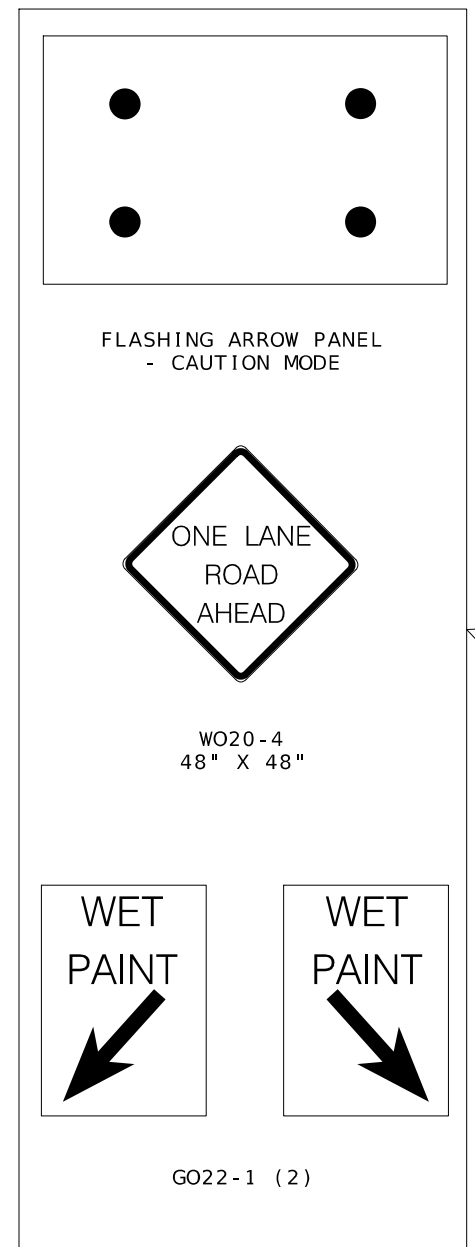
PROJECT NO.

BRIDGE NO.

DESCRIPTION	DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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



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.

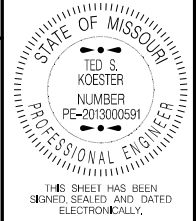
FLASHING ARROW PANELS SHALL BE INCIDENTAL TO TRUCK MOUNTED ATTENUATORS, WHEREVER USED. NO ADDITIONAL PAYMENT SHALL BE MADE.

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

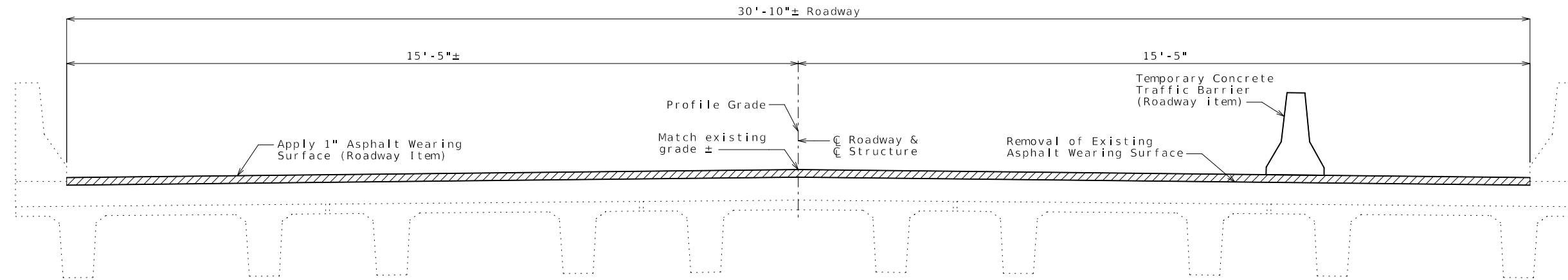
(2) WET PAINT SIGNS ARE INSTALLED TO INDICATE THE SIDE IN WHICH THE PAVEMENT MARKING MATERIAL IS BEING APPLIED. AT THE CONTRACTOR'S OPTION, A FRONT FACING WET PAINT SIGN MAY BE INSTALLED ON THE LEFT SIDE OF THE PAVEMENT MARKING EQUIPMENT.

(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.

U.I.P. AND REHABILITATE EXISTING (22'-22'-22')  
PRESTRESSED CONCRETE DOUBLE TEE GIRDER SPANS



DATE PREPARED		8/21/2024	
ROUTE	STATE	DISTRICT	SHEET NO.
I-44	MO	BR	1
COUNTY			
PHELPS			
JOB NO.			
JCD0085			
CONTRACT ID.			
PROJECT NO.			
BRIDGE NO.			
A42831			



TYPICAL SECTION THRU EXISTING DECK

General Notes:

Design Specifications:

2002-AASHTO LFD (17th Ed.) Standard Specifications  
Bridge Deck Rating = 7

Design Loading:

HS20-44

Miscellaneous:

Roadway surfacing adjacent to bridge ends shall match new bridge wearing surface (roadway item).

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

Contractor shall verify all dimensions in field before ordering new material.

Traffic Handling:

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

Estimated Quantities		
Item		Total
Removal of Asphalt Wearing Surface	sq. foot	2078

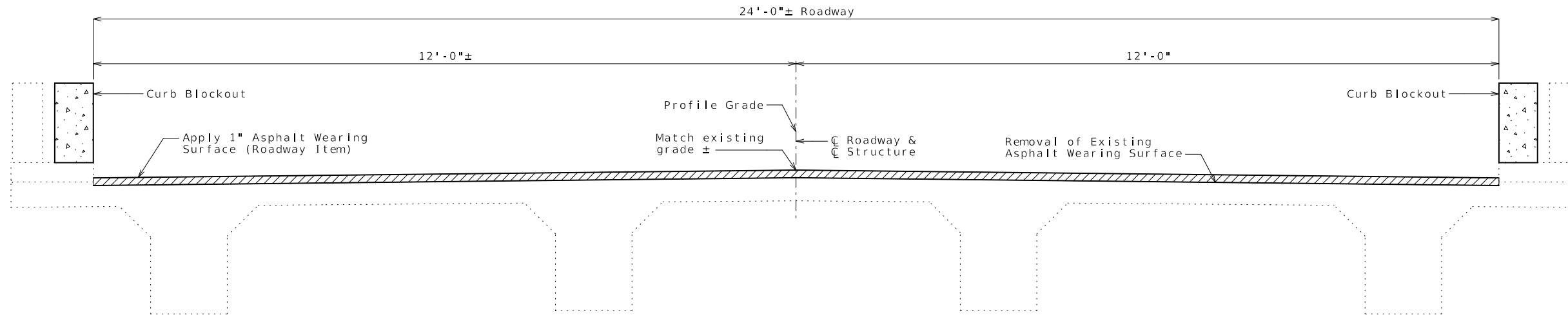
DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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

REPAIRS TO BRIDGE: ROUTE I-44 OUTER ROAD OVER BRANCH OF BOURBEUSE RIVER  
ROUTE I-44 OUTER ROAD FROM ROUTE 68 TO ROUTE V ABOUT 2.3 MILE WEST OF ROUTE 68  
BEGINNING STATION 1396+60.50± (Match Existing)

U.I.P. AND REHABILITATE EXISTING (30')  
CONCRETE DECK GIRDER SPAN



TYPICAL SECTION THRU EXISTING DECK

General Notes:

Design Specifications:

2002-AASHTO LFD (17th Ed.) Standard Specifications  
Bridge Deck Rating = 7

Design Loading:

H15-44 (1-Lane)

Miscellaneous:

Roadway surfacing adjacent to bridge ends shall match new bridge wearing surface (roadway item).

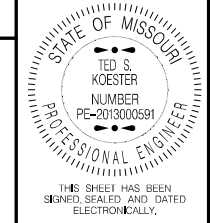
Outline of existing work is indicated by light dashed lines. Heavy lines indicate new work.

Contractor shall verify all dimensions in field before ordering new material.

Traffic Handling:

Structure to be closed during construction. See roadway plans for traffic control.

Estimated Quantities		
Item		Total
Removal of Asphalt Wearing Surface	sq. foot	780
Curb Blockout	linear feet	65



THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED: 8/21/2024  
ROUTE: I-44 STATE: MO  
DISTRICT: BR SHEET NO.: 1

COUNTY: PHELPS  
JOB NO.: JCD0085  
CONTRACT ID.:

PROJECT NO.:  
BRIDGE NO.: R05621

DESCRIPTION	DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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

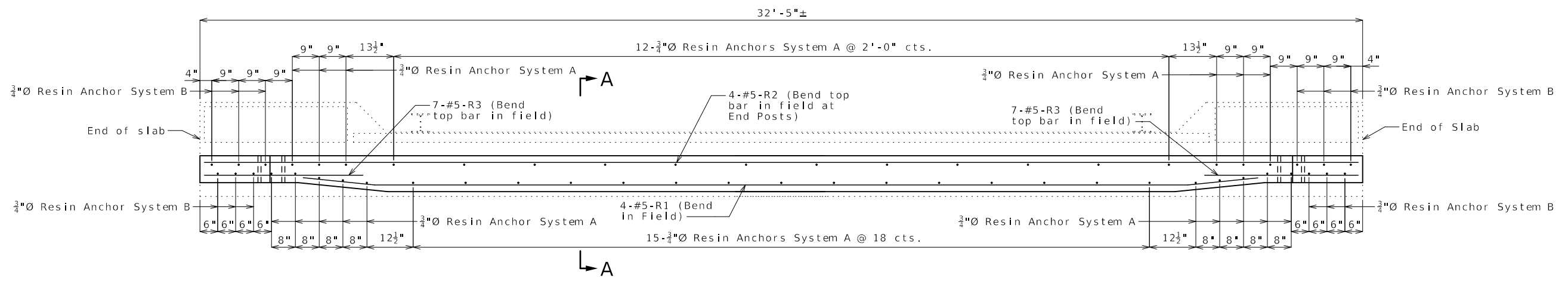
REPAIRS TO BRIDGE: ROUTE I-44 OUTER ROAD OVER BRANCH OF BOURBEUSE RIVER

ROUTE I-44 OUTER ROAD FROM ROUTE 68 TO ROUTE V  
ABOUT 2.3 MILE WEST OF ROUTE 68  
BEGINNING STATION 1396+75.75± (Match Existing)



THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

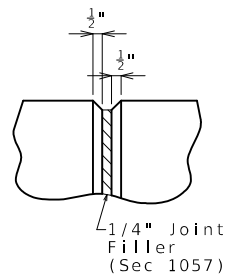
DATE PREPARED 8/21/2024	
ROUTE I-44	STATE MO
DISTRICT BR	SHEET NO. 2
COUNTY PHELPS	
JOB NO. JCD0085	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO. R05621	



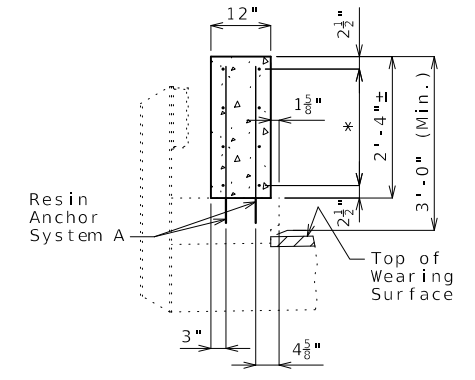
PLAN OF LEFT CURB BLOCKOUT  
(Right curb blockout similar)

Notes:

- Longitudinal dimensions are along grade and are taken at top outside edge of curb.
- Top of curb blockout shall be built parallel to grade with curb blockout joints (except at end bents) normal to grade.
- Concrete in the curb blockout shall be Class B-1.
- All exposed edges of curb blockout shall have either a 1/2-inch radius or a 3/8-inch bevel, unless otherwise noted.
- Payment for concrete, reinforcement, resin anchor systems and any other work incidental to the curb blockout, complete in place, will be considered completely covered by the contract unit price for Curb Blockout per linear foot.
- Measurement of curb blockout is to the nearest linear foot for each structure, measured along the inside edge of curb from end of slab to end of slab.
- Concrete traffic barrier delineators shall be placed on top of the curb blockout similarly as shown on Missouri Standard Plans 617.10 and in accordance with Sec 617. Delineators on bridges with two-lane, two-way traffic shall have retroreflective sheeting on both sides. Concrete traffic barrier delineators will be considered completely covered by the contract unit price for Curb Blockout.
- Cost of any concrete curb repair will be considered completely covered by the contract unit price for Curb Blockout.
- The 1/4-inch joints may be either formed joints with joint filler or saw-cut joints.
- Joint sealant and backer rods shall be in accordance with Sec 717 for Silicone Joint Sealant for Saw Cut and Formed Joints.
- For details of optional saw-cut joint, see Sheet No. 4.
- For additional details of end of blockout, see Sheet No. 3.
- Work this sheet with Sheets No. 3 & 4.



PART ELEVATION AT FORMED JOINT

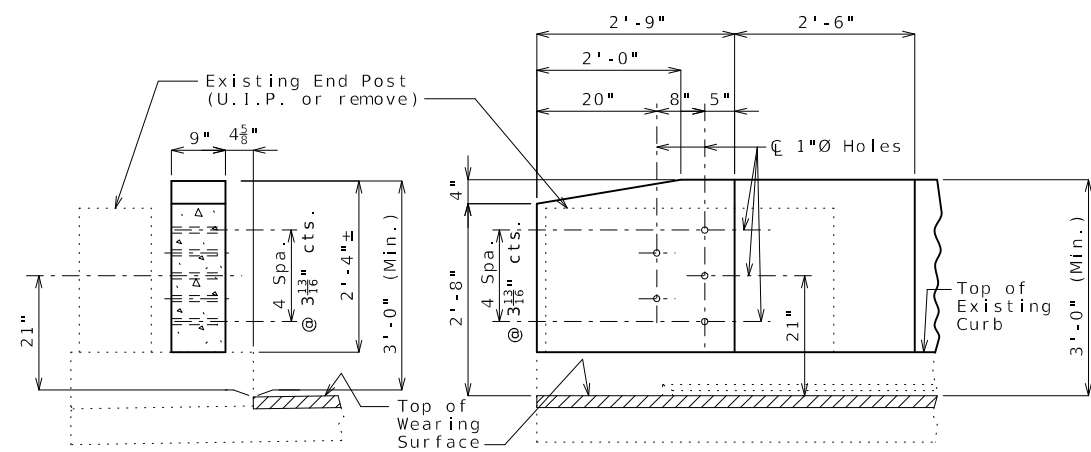


SECTION A-A

\* 4-#5-R bars (Each face) (Equally spaced)

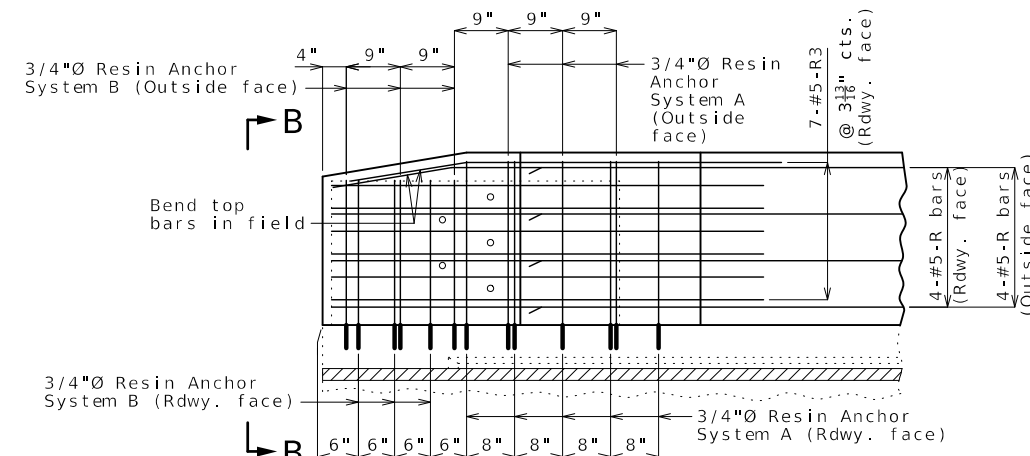
CURB BLOCKOUT

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

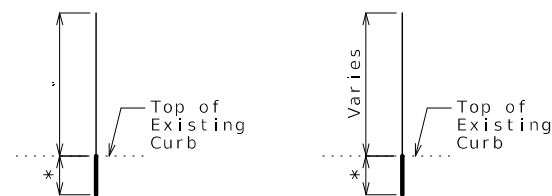


PART SECTION THRU END OF BLOCKOUT

PART ELEVATION SHOWING END OF BLOCKOUT



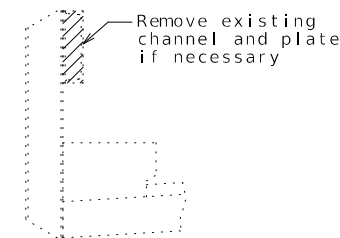
PART ELEVATION OF END OF BLOCKOUT SHOWING REINFORCEMENT



System A (86 required) System B (24 required)

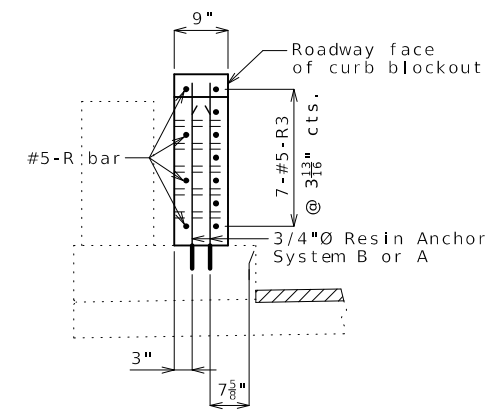
DETAILS OF RESIN ANCHORS

\* Manufacturer's recommended embedment length (5" min.)



TYPICAL SECTION THRU RAILING SHOWING CHANNEL REMOVAL

Cost of channel removal will be considered completely covered by the contract unit price for Curb Blockout.



ELEVATION B-B

Notes:

Work this sheet with Sheets No. 2 & 4.

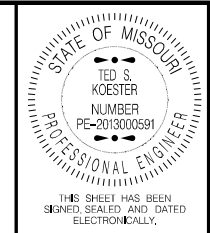
All curb blockout reinforcement shall be epoxy coated.

The contractor shall use one of the qualified resin anchor systems in accordance with Sec 1039.

The minimum embedment depth in concrete with f'c = 4,000 psi for the resin anchor system shall be that required to meet the minimum ultimate pullout strength in accordance with Sec 1039 but shall not be less than 5 inches.

An epoxy coated #6 Grade 60 reinforcing bar shall be substituted for the 3/4-inch diameter threaded rod.

Resin anchors shall be shifted or bent in field to clear one-inch diameter holes by at least 1/2 inch.



DATE PREPARED 8/21/2024

ROUTE 1-44 STATE MO

DISTRICT BR SHEET NO. 3

COUNTY PHELPS

JOB NO. JCD0085

CONTRACT ID.

PROJECT NO.

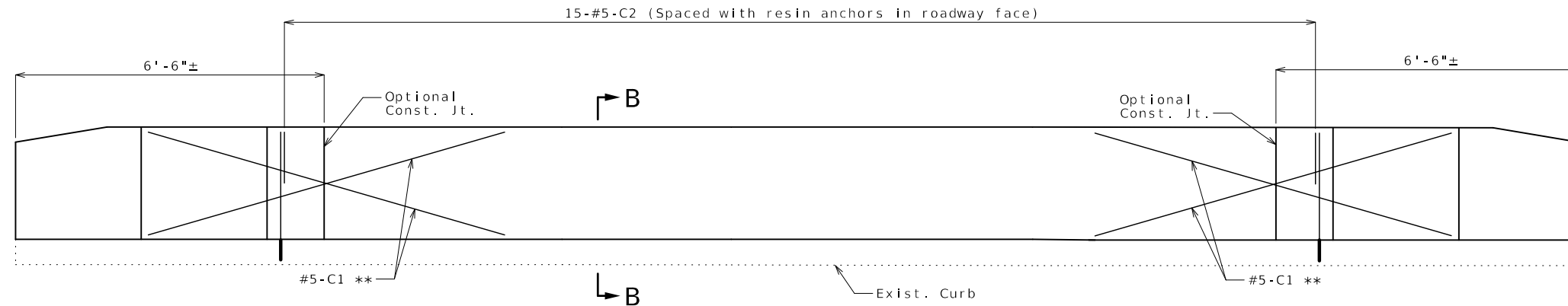
BRIDGE NO. R05621

DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

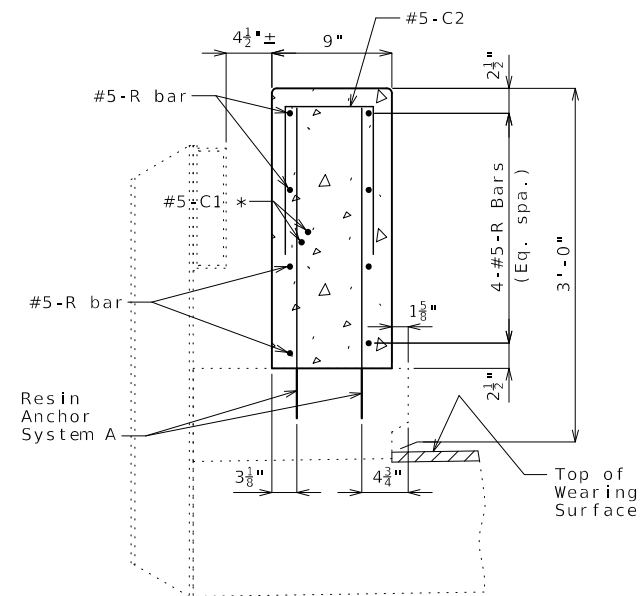


CURB BLOCKOUT



**TYPICAL ELEVATION OF CURB BLOCKOUT AT SUPPORT LOCATIONS**

Horizontal R bars and rail attachment holes not shown for clarity. C bars and textured fiberglass bars shall be used in addition to reinforcement shown for conventional forming.



**SECTION B-B**

\* Each side of joint location.

Note: C2 bars spaced with resin anchor systems in roadway face of 12" wide curb blockout.

**Notes:**

\*\* When optional construction joint is used, #5-C1 bars may be shifted or omitted.

Work this sheet with Sheets No. 2 & 3.

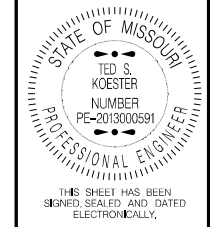
Joint sealant and backer rods shall be in accordance with Sec 717 for silicone joint sealant for saw cut and formed joints.

For slip-formed option, both sides of the curb blockout shall have a vertically broomed finish and the top shall have a transversely broomed finish.

Cost of silicone joint sealant and backer rod, complete in place, will be considered completely covered by the contract unit price for Curb Blockout.

General notes shown for conventionally formed curb blockouts also apply to slip-formed curb blockouts.

Channel, posts and concrete end posts shall be removed if necessary for slip forming. Removal cost will be considered completely covered by the contract unit price for Curb Blockout.



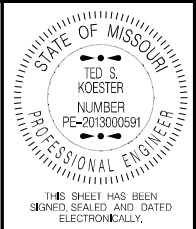
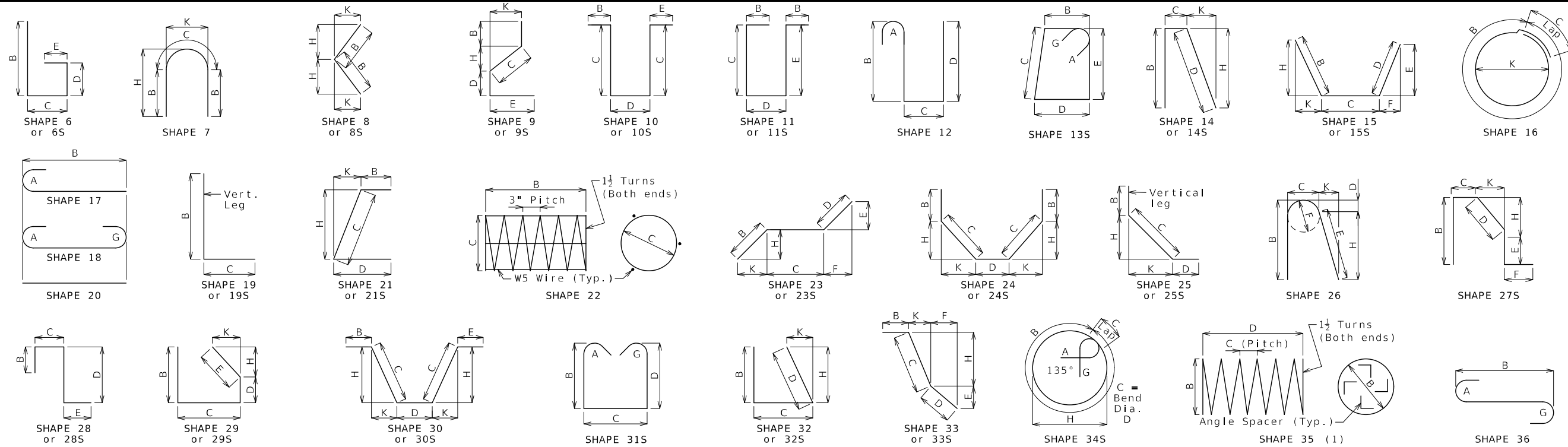
DATE PREPARED 8/21/2024	
ROUTE I - 44	STATE MO
DISTRICT BR	SHEET NO. 4
COUNTY PHELPS	
JOB NO. JCD0085	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO. R05621	

DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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

**OPTIONAL SLIP-FORMED CURB BLOCKOUT**



DATE PREPARED  
8/21/2024

ROUTE  
I-44

STATE  
MO

DISTRICT  
BR

SHEET NO.  
5

COUNTY  
PHELPS

JOB NO.  
JCD0085

CONTRACT ID.

PROJECT NO.

BRIDGE NO.  
R05621

### Finished Bend Diameters D and Hook Dimensions

#### Standard Pin Bend Shapes

Size	Case	D	A or G		J
			90°	180°	
#4	1	3"	8"	6"	4"
#5	1	3 3/8"	10"	7"	5"
#6	1	4 1/2"	12"	8 1/4"	6"
#7	2	5 1/4"	14"	9 3/4"	7"
	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 3/8"
#14	1	18 1/4"	31 1/4"	27 1/2"	21 3/8"
#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°		
#4	2	2"	4 1/2"	4 1/2"	5"	2 3/8"
	3	3"	5"	5 1/4"	6"	3"
#5	2	2 1/2"	5 3/4"	5 3/4"	5 3/4"	3 3/8"
	3	3 3/4"	6 1/4"	6 1/2"	7"	3 3/8"
#6	1	4 1/2"	12"	7 3/4"	8 1/4"	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

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.

All dimensions are out to out.

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.

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

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
By Size							
W5	0	0	0	0	0	0	0
4	0	0	0	0	0	0	0
5	0	0	0	0	0	0	0
6	0	0	0	0	0	0	0
7	0	0	0	0	0	0	0
By Type	0	0	0	0	0	0	0

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

### Bill of Reinforcing Steel

No. Req.	Size/Mark	Location	Dimensions								Nom. Length	Actual Length	Weight	
			Codes			B	C	D	E	F				H
			C	SH	V	ft in.	ft in.	ft in.	ft in.	ft in.	ft in.	ft in.	ft in.	lb
		BARRIER CURB												
8	5 R1	BARRIER CURB	E	20		27	0.00						27	0
8	5 R2	BARRIER CURB	E	20		32	2.00						32	2
28	5 R3	BARRIER CURB	E	20		6	0.00						6	0
		SLIP-FORM												
8	5 C1	SLIP FORM	E	20		12	0.00						12	0
15	5 C2	SLIP FORM	E	10				18.00	6.00				3	6

## BENDING DIAGRAMS AND REINFORCING STEEL TOTALS

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