

DESIGN DESIGNATION

A.A.D.T. - 2021 = 7764

A.A.D.T. - 2031 = 8119

T = 6%

V = 45/55 M.P.H.

D = 50%

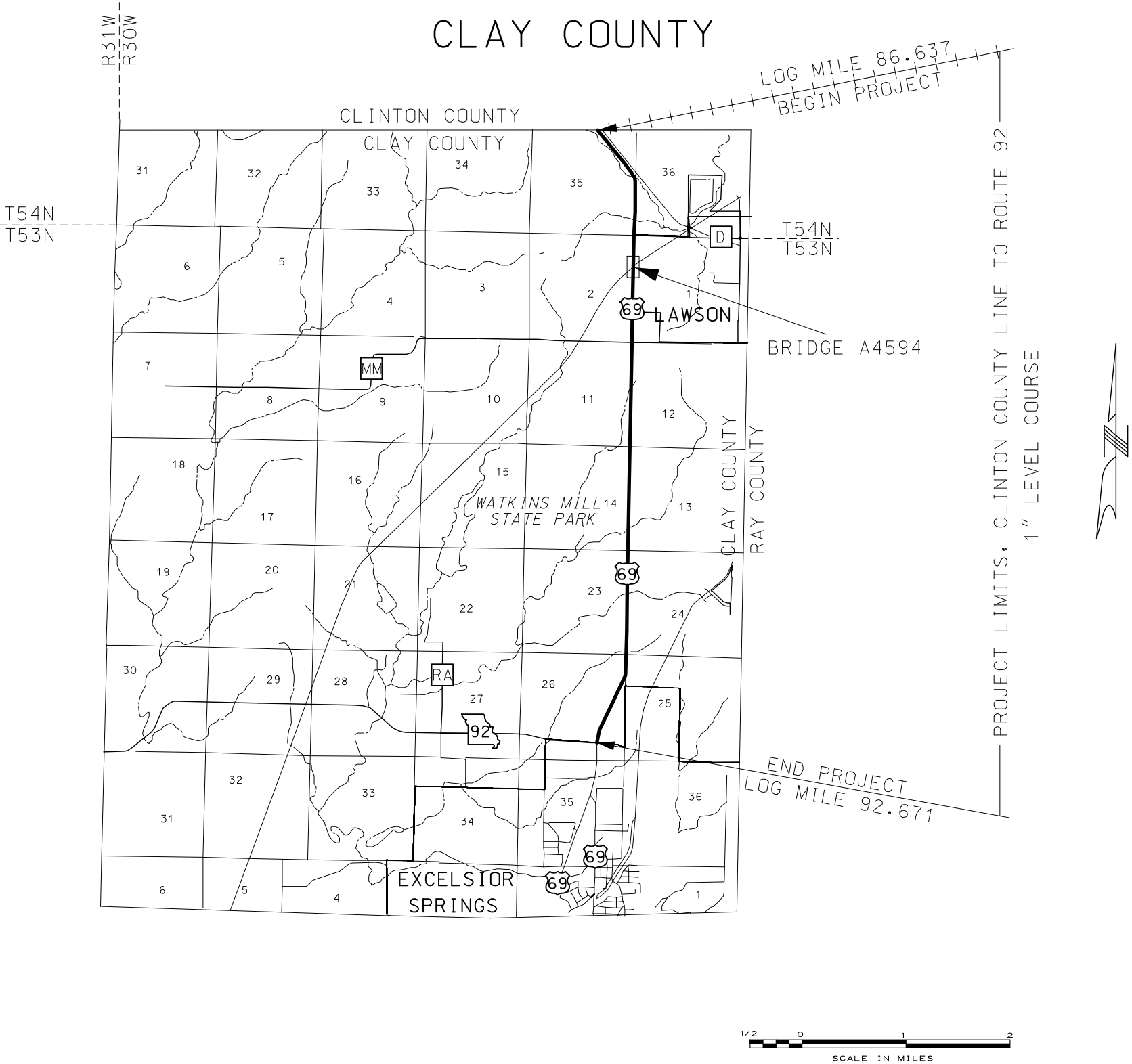
FUNCTIONAL CLASSIFICATION - MAJOR COLLECTOR

CONVENTIONAL SYMBOLS  
(USED IN PLANS)

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

NOTE: DASHED OR OPEN SYMBOLS INDICATE EXISTING FEATURES

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



INDEX OF SHEETS

DESCRIPTION	SHEET NUMBER
TITLE SHEET	1
TYPICAL SECTIONS (TS) (1 SHEET)	2
QUANTITIES (QU) (5 SHEETS)	3
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THIS SHEET HAS BEEN  
SIGNED, SEALED AND DATED  
ELECTRONICALLY.

DATE PREPARED

8/6/2021

ROUTE STATE

69 MO

DISTRICT SHEET NO.

KC 1

COUNTY

CLAY

JOB NO.

J4P3346

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

LENGTH OF PROJECT

BEGINNING OF PROJECT	LOG MILE 86.637
END OF PROJECT	LOG MILE 92.671
APPARENT LENGTH	6.034 MILES
EQUATIONS AND EXCEPTIONS:	
BRIDGE A4594	0.040 MILES
BEGINNING OF BRIDGE	LOG MILE 88.039
END OF BRIDGE	LOG MILE 88.079

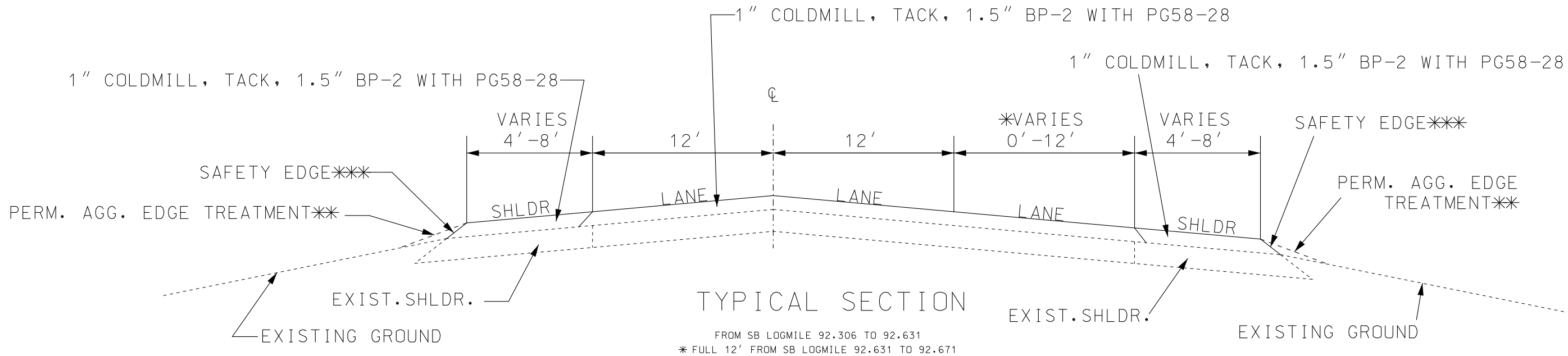
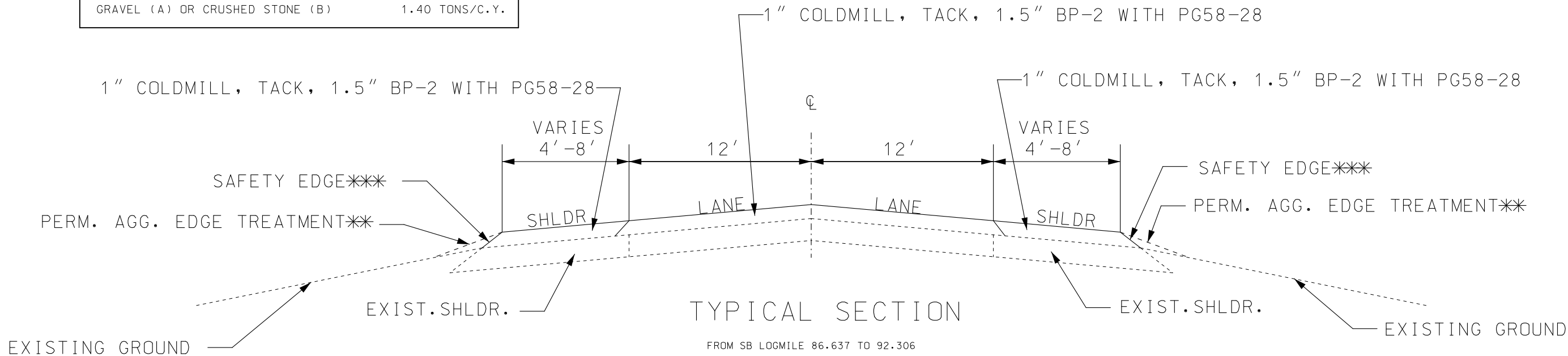
TOTAL CORRECTIONS	0.040 MILES
NET LENGTH OF PROJECT	5.994 MILES
STATE LENGTH	5.994 MILES

FOR INFORMATION ONLY  
ESTIMATED DISTURBED ACRES 0 ACRES



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

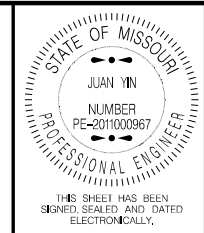
(FOR INFORMATIONAL PURPOSES ONLY)	
BITUMINOUS PAVEMENT ESTIMATE FACTORS	
BP-2 = 1.993 TONS/CY TACK COAT = 0.10 GAL/SY	
PERMANENT AGGR. EDGE TREATMENT	1.88 TONS/C.Y.
GRAVEL (A) OR CRUSHED STONE (B)	1.40 TONS/C.Y.



\*\* ASSUMED 2" DEEP X 2' WIDE  
\*\*\* SEE STD PLAN 401.00

TYPICAL SECTION

SHEET 1 OF 1



DATE PREPARED 8/6/2021	
ROUTE 69	STATE MO
DISTRICT KC	SHEET NO. 2
COUNTY CLAY	
JOB NO. J4P3346	
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)

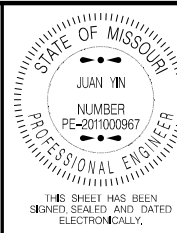
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REMOVAL OF IMPROVEMENTS					
LOG MILE START	LOG MILE END	ITEMS	LENGTH (FT)	QUANTITY CWET	REMARKS
SOUTHBOUND					
88.008	88.048	GUARDRAIL AND CWET	50	1	REPLACE ALL NON-SKT END TERMINALS
88.088	88.109	GUARDRAIL AND CWET	50	1	REPLACE ALL NON-SKT END TERMINALS
90.495	90.654	GUARDRAIL AND CWET	850	2	REPLACE ALL NON-SKT END TERMINALS
91.093	91.213	CWET	50	1	REPLACE ALL NON-SKT END TERMINALS
NORTHBOUND					
30.505	30.605	CWET	100	2	REPLACE ALL NON-SKT END TERMINALS
31.065	31.284	GUARDRAIL AND CWET	1162.5	2	REPLACE ALL NON-SKT END TERMINALS
33.602	33.642	GUARDRAIL AND CWET	50	1	REPLACE ALL NON-SKT END TERMINALS
33.682	33.722	GUARDRAIL AND CWET	50	1	REPLACE ALL NON-SKT END TERMINALS
TOTAL			1 LUMP SUM		

MOBILIZATION

1 LUMP SUM

ASPHALT QUANTITIES										
LOG MILE START	LOG MILE END	NOTES	LENGTH (FT)	WIDTH (FT)	TOTAL WIDTHS OF SHOULDERS (FT)	1.5" BITUMINOUS PAVEMENT MIXTURE PG58-28, (BP-2) (TONS)	TACK COAT (GAL)	1.0" COLDMILLING (SY)	MODIFIED COLD MILLING (SY)	ADDITIONAL NOTES
SOUTHBOUND										
86.637	86.642		28.9	24	4	4.3	18	0	177.8	
86.642	88.019		7265.6	24	4	2145.2	2583	25833.2	0	
88.019	88.028	BRIDGE EXCEPTION	50.0	24	4	7.4	0	0	177.8	
88.068	88.077	BRIDGE EXCEPTION	50.0	24	8	9.2	0	0	222.2	
88.077	88.147		367.1	24	8	135.5	163	1631.6	0	
88.147	88.229		433.0	24	6	143.8	173	1731.8	0	
88.229	88.260	PAVEMENT ENTRANCES	162.0	24	0	35.9	27	273.8	158.2	MODIFIED COLDMILL TO TRANISITON TO PAVEMENT ENTRANCES
88.260	88.329		366.0	24	6	121.6	146	1464.0	0	
88.329	88.347	PAVEMENT ENTRANCES	96.0	24	0	21.3	6	56.9	199.1	MODIFIED COLDMILL TO TRANISITON TO PAVEMENT ENTRANCES
88.347	88.689		1804.8	24	6	599.5	722	7219.2	0	
88.689	88.717	PAVEMENT ENTRANCE	148.0	24	6	41.0	52	519.1	72.9	MODIFIED COLDMILL TO TRANISITON TO PAVEMENT ENTRANCE
88.717	92.114		17936.0	24	7	6288.7	7573	75729.8	0	
92.114	92.120	PAVEMENT ENTRANCE	32.0	24	4	8.3	9	94.7	19.1	MODIFIED COLDMILL TO TRANISITON TO PAVEMENT ENTRANCE
92.117	92.295		939.8	24	7	329.5	397	3968.2	0	
92.295	92.306	PAVEMENT ENTRANCE	57.0	24	6	15.8	19	194.7	33.3	MODIFIED COLDMILL TO TRANISITON TO PAVEMENT ENTRANCE
92.306	92.631		1717.1	30	6	665.4	801	8013.0	0	
92.631	92.662		163.7	36	6	72.5	87	873.0	0	
92.662	92.671		50.0	36	6	11.1	0	0	266.7	
ENTRANCES/SIDE ROADS										
LOCATION		LOG MILE	AREA (SY)			1.5" BITUMINOUS PAVEMENT MIXTURE PG58-28 (BP-2) (TONS)	TACK COAT (GAL)	1.0" COLDMILLING (SY)	MODIFIED COLD MILLING (SY)	
SOUTHBOUND										
SE FRED EVAN RD		87.205	127.04			10.5	13	127	0	
PRIVATE ENNTRANCE		87.266	61.88			5.1	6	62	0	
NE 192ND ST WB		87.748	114.85			9.5	11	115	0	
NE 192ND ST EB		87.748	80.29			6.7	8	80	0	
PRIVATE ENNTRANCE		88.168	81.72			6.8	8	82	0	
NE 184TH ST		88.772	99.7			8.3	10	100	0	
RTE-MM		88.772	110.22			9.2	11	110	0	
PRIVATE ENTRANCE		88.998	40.66			3.4	4	41	0	
NE 174TH ST WB		89.995	51.61			4.3	5	52	0	
NE 174TH ST EB		89.995	76.47			6.4	8	76	0	
PRIVATE ENTRANCE		90.075	37.01			3.1	4	37	0	
NE 166TH ST WB		90.993	74.89			6.2	7	75	0	
NE 166TH ST EB		91.013	106.54			8.8	11	107	0	
NE 162ND ST WB		91.528	75.24			6.2	8	75	0	
NE 162ND ST EB		91.532	67.84			5.6	7	68	0	
VICKIE DR		91.933	40.7			3.4	4	41	0	
RTE-92		92.651	65.81			5.5	7	66	0	
TOTAL						10753.8	12909	128916	1060	



DATE PREPARED  
9/20/2021

ROUTE  
69

DISTRICT  
KC

STATE  
MO

SHEET NO.  
3

COUNTY  
CLAY

JOB NO.  
J4P3346

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)

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

RUMBLE STRIPS				
LOG MILE START	LOG MILE END	LENGTH (FT)	NUMBER OF STRIPS	LENGTH OF STRIPS (STA)
SOUTHBOUND				
86.665	86.684	100.3	1	1.0
86.684	87.205	2750.9	2	55.0
87.246	87.748	2650.6	2	53.0
87.828	87.848	105.6	1	1.1
87.848	88.028	950.4	2	19.0
88.068	88.75	3601.0	2	72.0
88.772	89.975	6351.8	2	127.0
89.995	90.993	5269.4	2	105.4
90.993	91.033	211.2	1	2.1
91.033	91.513	2534.4	2	50.7
91.513	91.532	100.3	1	1.0
91.573	91.972	2106.7	2	42.1
91.972	92.013	216.5	1	2.2
92.013	92.297	1499.5	2	30.0
92.297	92.315	95.0	1	1.0
92.315	92.332	89.8	1	0.9
92.332	92.651	1684.3	2	33.7
TOTAL				597.2

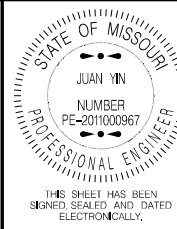
* DRAIN BASINS	
LOCATION	QUANTITY (EACH)
SOUTHBOUND	
88.033	1
88.073	1
NORTHBOUND	
33.642	1
33.682	1
TOTAL	4

\* SEE SPECIAL SHEET 3 OF 3

* FURNISHING TYPE 1 ROCK LINER			
LOCATION (LOGMILE)	LENGTH (FT)	QUANTITY (CY)	REMARKS
SOUTHBOUND			
91.075	15	4	** LEFT
91.153	8	2	** RIGHT
TOTAL		6	

\* FILL IN ERODED NEARBY ERODES SPOTS WITH AGGRIGATE FOR EROSION CONTROL  
\*\* FURNISH IN PLACE

FULL DEPTH PAVEMENT REPAIR									
LOG MILE	LENGTH (FT)	WIDTH (FT)	AREA (SY)	FURNISHING PLACING CONC. FOR F.D. PVT. REPAIR (SY)	SUBGRADE COMPACTION 6 IN. DEPTH PVT. REPAIR (SY)	TYPE 1 OR 5 AGGREGATE 4 IN. THICK PVT. REPAIR (SY)	DOWEL BARS DRILL, FURN. INSTALL (EACH)	FULL DEPTH PVT. REPAIR SAW CUTS (LF)	NOTES
NORTHBOUND									
29.364	6	12	8.0	8.0	0.8	0.8	20	24	GRAVEL DRIVEWAY TO EAT
29.446	6	12	8.0	8.0	0.8	0.8	20	24	GREEN SELF STOARGE TO WEST, SAME AS 92.269
29.865	6	12	8.0	8.0	0.8	0.8	20	24	AUNDRA LN
30.987	6	12	8.0	8.0	0.8	0.8	20	24	
31.137	16	12	21.3	21.3	2.1	2.1	40	48	LARGE ROUGH AREAS ON EITHER SIDE OF BOX CULVERT
31.163	24	12	32.0	32.0	3.2	3.2	50	60	
31.910	6	12	8.0	8.0	0.8	0.8	20	24	
32.547	6	12	8.0	8.0	0.8	0.8	20	24	POND ON WEST SIDE, SAME AS 89.168
32.737	6	12	8.0	8.0	0.8	0.8	20	24	PRIVATE DRIVE WITH LAMPS, SAME AS 88.978
33.191	6	12	8.0	8.0	0.8	0.8	20	24	MAYBE PARTIAL, SAME AS 88.525
33.413	6	12	8.0	8.0	0.8	0.8	20	24	SAME AS 88.301
34.107	6	12	8.0	8.0	0.8	0.8	20	24	BOX CULVERT, SAME AS 87.607
34.484	6	12	8.0	8.0	0.8	0.8	20	24	
SOUTHBOUND									
87.231	6	12	8.0	8.0	0.8	0.8	20	24	AFTER FRED EVANS RD, SAME AS 34.484
87.607	6	12	8.0	8.0	0.8	0.8	20	24	BOX CULVERT, SAME AS 34.107
87.791	6	12	8.0	8.0	0.8	0.8	20	24	FINISH LINE STATION
88.301	6	12	8.0	8.0	0.8	0.8	20	24	
88.525	6	12	8.0	8.0	0.8	0.8	20	24	SAME AS 33.191
88.978	6	12	8.0	8.0	0.8	0.8	20	24	PRIVATE DRIVE WITH LAMPS, SAME AS 32.737
89.168	6	12	8.0	8.0	0.8	0.8	20	24	POND ON WEST SIDE, SAME AS 32.547
89.328	6	12	8.0	8.0	0.8	0.8	20	24	PRIVATE DRIVE WITH TWO WHITE FENCES
90.522	24	12	32.0	32.0	3.2	3.2	50	60	LARGE ROUGH AREAS ON EITHER SIDE OF CULVERT
90.578	16	12	21.3	21.3	2.1	2.1	40	48	
91.887	6	12	8.0	8.0	0.8	0.8	20	24	IN LINE WITH BILLBOARD TO THE EAST
92.040	6	12	8.0	8.0	0.8	0.8	20	24	AFTER VICKIE DR
92.269	6	12	8.0	8.0	0.8	0.8	20	24	GREEN SELF STORAGE TO WEST, SAME AS 29.446
TOTAL				282.7	28.3	28.3	620	744	



DATE PREPARED 9/20/2021	
ROUTE 69	STATE MO
DISTRICT KC	SHEET NO. 3

COUNTY CLAY
JOB NO. J4P3346
CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION	DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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

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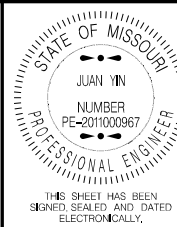


GRAVEL ENTRANCES (GRAVEL A OR CRUSHED STONE)					
LOG MILE	LT/RT	LENGTH (FT)	WIDTH (FT)	AREA (SY)	GRAVEL (TONS)
SOUTHBOUND					
86.644	LT	30.0	10.0	33.3	1.3
86.665	RT	46.0	10.0	51.1	2.0
86.985	RT	20.0	10.0	22.2	0.9
87.205	LT	20.0	10.0	22.2	0.9
87.368	RT	14.0	10.0	15.6	0.6
87.387	RT	12.0	10.0	13.3	0.5
87.387	RT	12.0	10.0	13.3	0.5
87.427	LT	12.0	10.0	13.3	0.5
88.468	RT	20.0	10.0	22.2	0.9
88.488	LT	20.0	10.0	22.2	0.9
88.507	LT	12.0	10.0	13.3	0.5
88.879	LT	14.0	10.0	15.6	0.6
89.078	LT	14.0	10.0	15.6	0.6
89.388	LT	14.0	10.0	15.6	0.6
89.557	LT	12.0	10.0	13.3	0.5
89.620	RT	20.0	10.0	22.2	0.9
89.698	RT	12.0	10.0	13.3	0.5
89.716	RT	12.0	10.0	13.3	0.5
89.878	LT	12.0	10.0	13.3	0.5
89.895	RT	20.0	10.0	22.2	0.9
90.075	RT	20.0	10.0	22.2	0.9
90.196	RT	12.0	10.0	13.3	0.5
90.276	LT	12.0	10.0	13.3	0.5
90.354	LT	20.0	10.0	22.2	0.9
90.354	RT	20.0	10.0	22.2	0.9
90.375	LT	12.0	10.0	13.3	0.5
90.734	RT	12.0	10.0	13.3	0.5
90.935	RT	20.0	10.0	22.2	0.9
90.972	RT	20.0	10.0	22.2	0.9
91.093	RT	14.0	10.0	15.6	0.6
91.113	LT	12.0	10.0	13.3	0.5
91.213	RT	12.0	10.0	13.3	0.5
91.274	RT	12.0	10.0	13.3	0.5
91.552	LT	12.0	10.0	13.3	0.5
91.632	LT	12.0	10.0	13.3	0.5
91.653	LT	12.0	10.0	13.3	0.5
91.712	LT	12.0	10.0	13.3	0.5
91.852	LT	12.0	10.0	13.3	0.5
91.949	RT	12.0	10.0	13.3	0.5
92.332	LT	12.0	10.0	13.3	0.5
92.353	LT	12.0	10.0	13.3	0.5
TOTAL		642.0			27.7

REMOVAL OF IMPROVEMENTS					
LOG MILE START	LOG MILE END	ITEMS	LENGTH (FT)	QUANTITY CWET	REMARKS
SOUTHBOUND					
88.008	88.048	CWET	50	1	REPLACE ALL NON-SKT END TERMINALS
88.088	88.109	GUARDRAIL AND CWET	137.5	1	REPLACE ALL NON-SKT END TERMINALS
90.495	90.654	GUARDRAIL AND CWET	850	2	REPLACE ALL NON-SKT END TERMINALS
91.093	91.213	CWET	50	1	REPLACE ALL NON-SKT END TERMINALS
NORTHBOUND					
30.505	30.605	CWET	100	2	REPLACE ALL NON-SKT END TERMINALS
31.065	31.284	GUARDRAIL AND CWET	1162.5	2	REPLACE ALL NON-SKT END TERMINALS
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33.682	33.722	CWET	50	1	REPLACE ALL NON-SKT END TERMINALS
TOTAL			1 LUMP SUM		

GUARDRAIL					
LOG MILE START	LOG MILE END	COMPONENTS			
		TYPE A CRASHWORTHY END TERMINAL (MASH) (EACH)	MGS GUARDRAIL (LF)	MGS GUARDRAIL WITH 8' POSTS (LF)	CLASS III SHAPING SLOPES (STA)
SOUTHBOUND					
88.008	88.048	1	0	0	0.75
88.088	88.125	1	112.5	0	0.75
90.495	90.654	2	0	750	1.5
91.093	91.213	1	0	0	1.5
NORTHBOUND					
30.505	30.605	2	0	0	1.5
31.065	31.284	2	0	1062.5	1.5
33.602	33.642	1	0	0	0.75
33.682	33.722	1	0	0	0.75
TOTAL		11	112.5	1812.5	9

SHOULDER REPAIR*					
LOG MILE	LENGTH (FT)	WIDTH (FT)	REMOVAL FOR CLASS C P.D. PAVEMENT REPAIR (SY)	FURN/PLACE BITUMINOUS MATERIAL CL C PARTIAL DEPTH REPAIR (TONS)	NOTES
SOUTHBOUND					
87.463	20	4	8.9	2.9	
91.387	20.00	4	8.9	2.9	PRIVATE DRIVEWAY TO WEST
91.447	30	4	13.3	4.4	FIELD ENTRANCE TO EAST
91.977	20	4	8.9	2.9	ACROSS FROM VICKIE DR
92.127	10	4	4.4	1.5	PRIVATE DRIVEWAY TO THE WEST WITH STONE WALL
NORTHBOUND					
31.520	40	4	17.8	5.9	
35.077	60	4	26.7	8.8	EXTENDS PAST COUNTY LINE 25 FT
TOTAL			88.9	29.5	
*SHOULDER REPAIRS ARE PAID FOR AS CLASS C PARTIAL PAVEMENT REPAIR DEPTH ESTIMATED TO BE 6 INCHES (SEE NEXT SHEET FOR PAY TOTALS)					



DATE PREPARED 9/20/2021	
ROUTE 69	STATE MO
DISTRICT KC	SHEET NO. 3
COUNTY CLAY	
JOB NO. J4P3346	
CONTRACT ID.	
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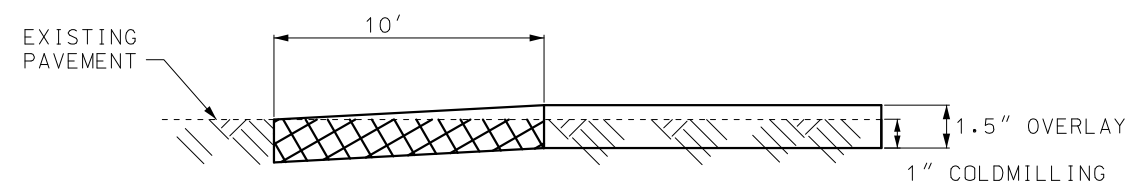
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MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

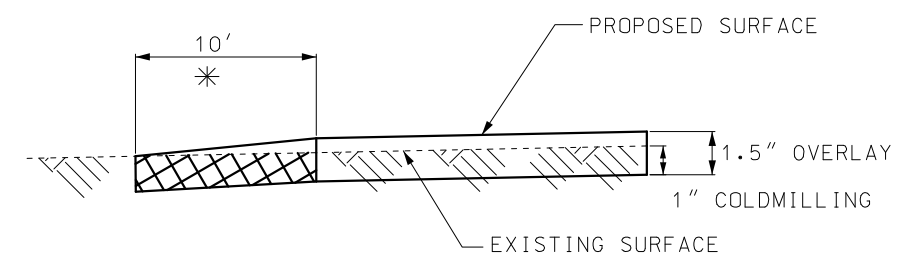
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IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

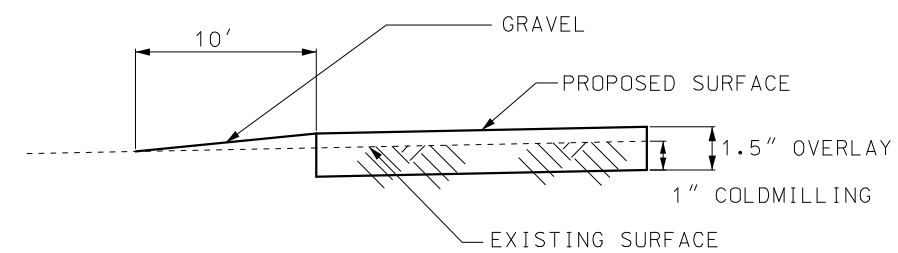




A cross-sectional diagram of a cold mill overlay. It shows a base layer with a hatched area representing the existing surface. A new layer, labeled '10"', is overlaid on top. The top surface of this layer is labeled 'EDGE OF 1" COLDMILLING AND 1.5" OVERLAY'. The width of the overlay is indicated by a dimension line labeled 'WIDTH VARIES'. A dimension line labeled 'B' indicates the thickness of the overlay layer. Another dimension line labeled 'B' indicates the width of the base layer.



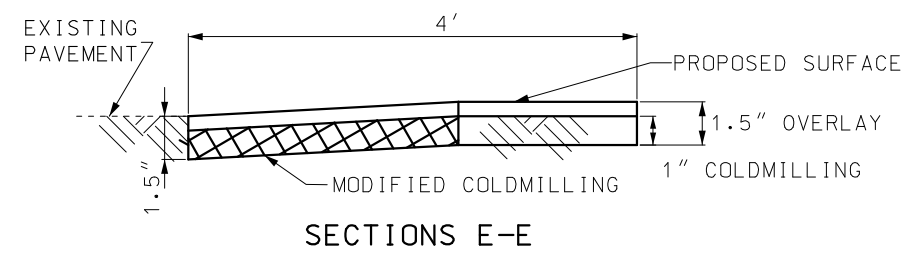
A cross-sectional diagram of a coldmill overlay. A horizontal line represents the existing surface. Above it, a hatched area represents the overlay. The overlay has a flat top and rounded edges. A vertical dimension line on the right indicates a height of 10'. A horizontal dimension line at the top indicates a width that varies. A label 'EDGE OF 1" COLDMILLING AND 1.5" OVERLAY' points to the edge of the hatched area. A label 'C' with an arrow points to the hatched area, and another 'C' with an arrow points to the existing surface below.



SPECIAL SHEET  
1 OF 3

[illegible]





# MODIFIED COLD MILLING FOR PAVEMENT ENTRANCES

STATE OF MISSOURI  
JUAN YIN  
NUMBER  
PE-201000967  
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN  
SIGNED, SEALED AND DATED  
ELECTRONICALLY.

DATE PREPARED	RONIC
8/6/2021	

ROUTE 69	STATE MO	LECT

DISTRICT	SHEET NO.
KC	5

COUNTY  
CLAY

JOB NO.  
J4P3346

CONTRACT ID.	NET 1
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PROJECT NO.	SHEET
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BRIDGE NO.	SHEET

[illegible]

MISSOURI HIGHWAYS AND TRANSPORTATION  
COMMISSION

**MoDOT**

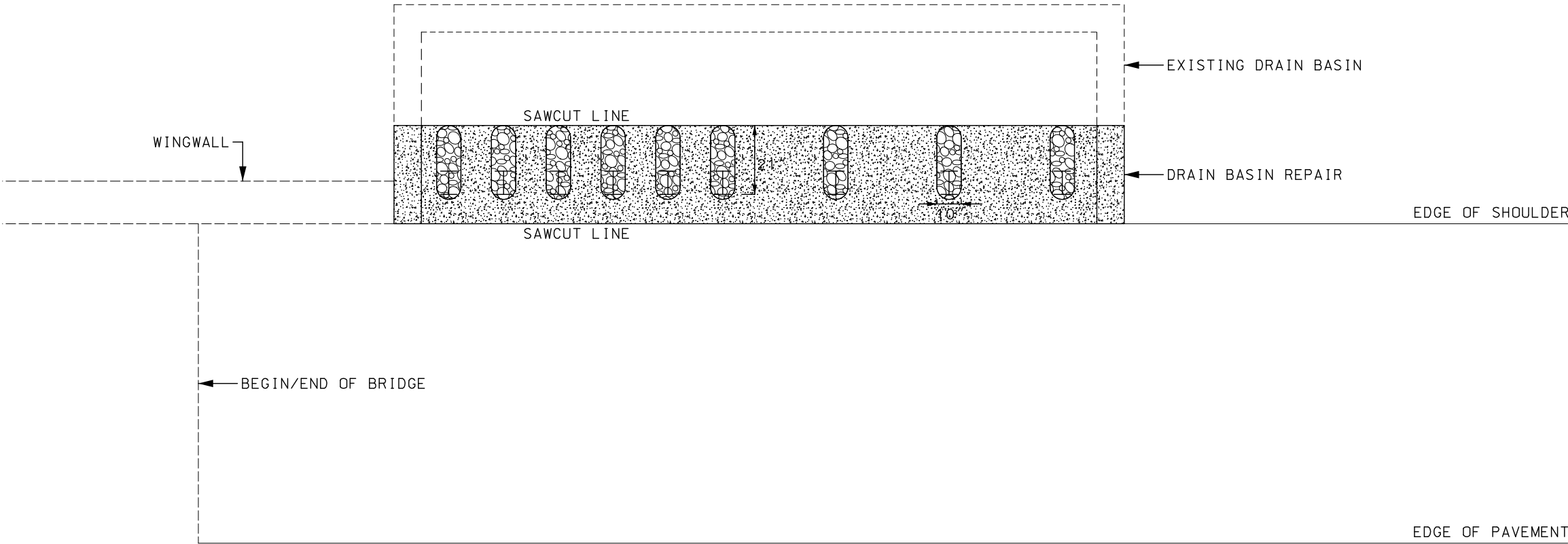
105 WEST CAPITOL  
JEFFERSON CITY, MO 65102  
1-888-ASK-MODOT (1-888-275-6636)

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

NOTE: REFER TO SPECIAL PROVISIONS FOR  
ADDITIONAL CONSTRUCTION DETAILS.

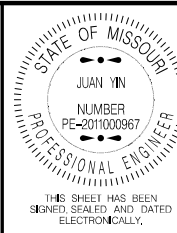
LEGEND

- CONCRETE
- TYPE 1 AGGREGATE



NOT TO SCALE

DRAIN BASIN REPAIR  
SPECIAL SHEET 3 OF 3



DATE PREPARED 9/27/2021	
ROUTE 69	STATE MO
DISTRICT KC	SHEET NO. 6
COUNTY CLAY	
JOB NO. J4P3346	
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)

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

SPACING AND TAPER LENGTHS FOR WORK ZONE SIGNS, CHANNELIZERS AND CONCRETE BARRIER

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

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

TAPER LENGTHS AND SPACING FOR CHANNELIZERS							
PERMANENT POSTED SPEED MPH	MINIMUM LANE TAPER LENGTH (3)			MINIMUM SHOULDER TAPER LENGTH BASED ON 10' SHOULDER	BUFFER LENGTH FT	MAXIMUM CHANNELIZER SPACING	
	10'	11'	12'			THROUGH TAPER	THROUGH WORK AREA
0-35	205'	225'	245'	70'	280'	35'	40'
40-45	450'	495'	540'	150'	400'	40'	80'
50-55	550'	605'	660'	185'	560'	50'	80'
60-70	700'	770'	840'	235'	840'	60'	120'

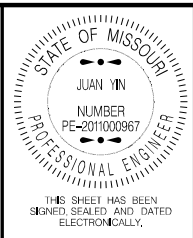
- NOTE:
- (1)

SPACING BETWEEN SIGNS AND SPACING BETWEEN LAST SIGN AND FLAGGER, BEGINNING OF TAPER, OF SIGNED CONDITION.
- (2)

SPACING MAY BE ADJUSTED AS NECESSARY TO MEET FIELD CONDITIONS.
- (3)

TAPER LENGTHS SHOWN INCLUDE LENGTH REQUIRED FOR LANE AND 10' SHOULDER
- (4)


CONCRETE BARRIER MAY BE INSTALLED AT 8:1 FLARE RATE FROM THE SHOULDER POINT OF THE LIMITS OF THE CLEAR ZONE WHERE THE SIDE SLOPE IS 6:1 OR FLATTER



DATE PREPARED 8/6/2021	
ROUTE 69	STATE MO
DISTRICT KC	SHEET NO. 7
COUNTY CLAY	
JOB NO. J4P3346	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

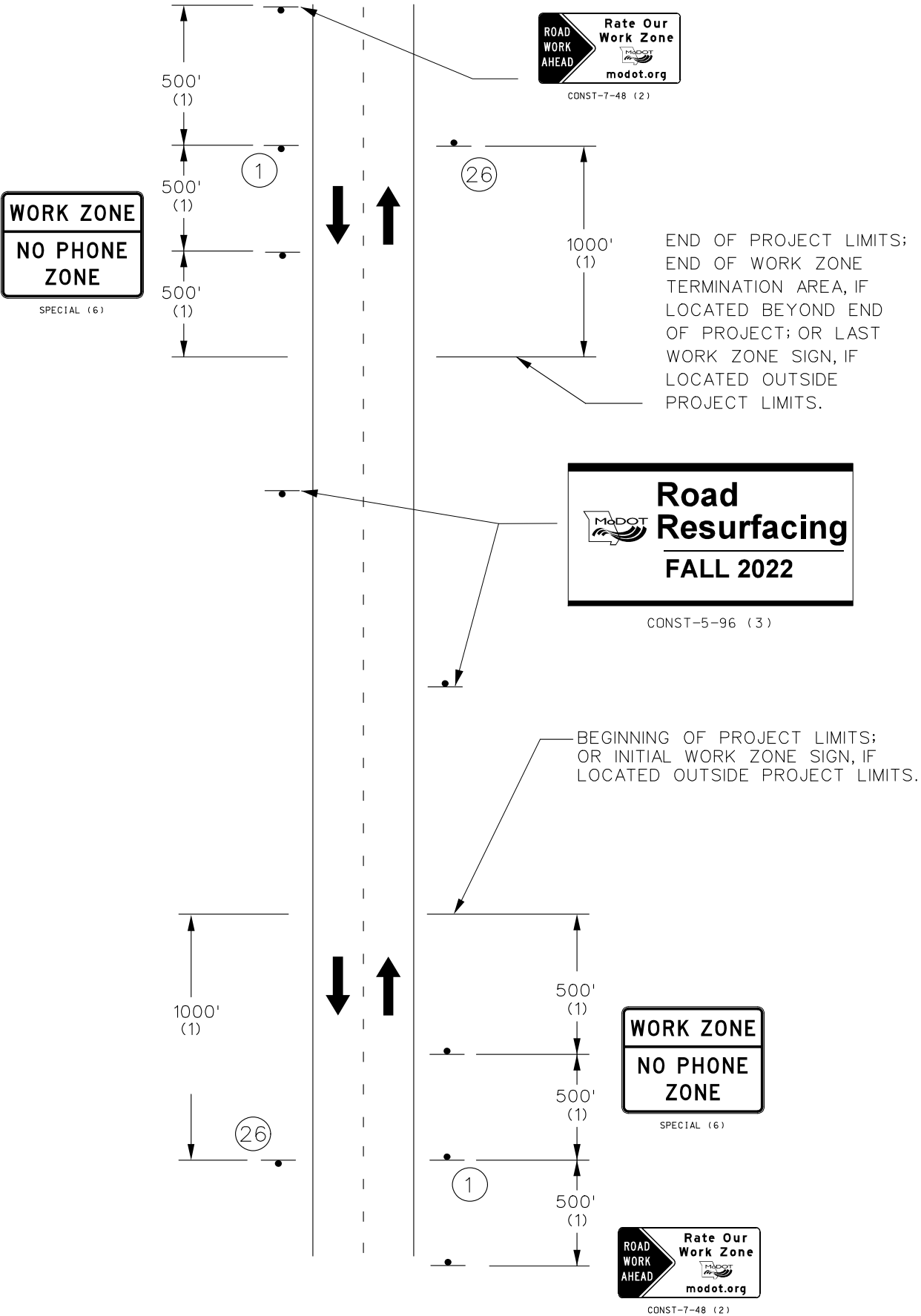
DESCRIPTION	DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION



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

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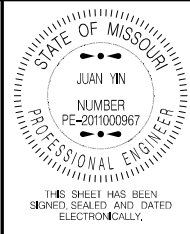
ROAD WORK  
NEXT 6 MILES

G020-1  
1

END  
ROAD WORK

G020-2  
26

BEGIN/END  
TEMPORARY  
TRAFFIC CONTROL  
SHEET 2 OF 6



DATE PREPARED  
8/6/2021

ROUTE 69	STATE MO
DISTRICT KC	SHEET NO. 8

COUNTY  
CLAY

JOB NO.  
J4P3346

CONTRACT ID.

PROJECT NO.

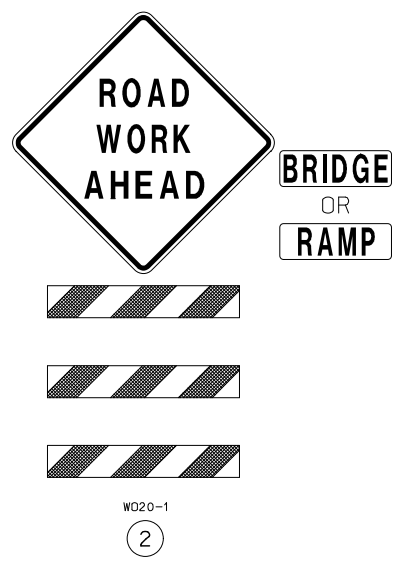
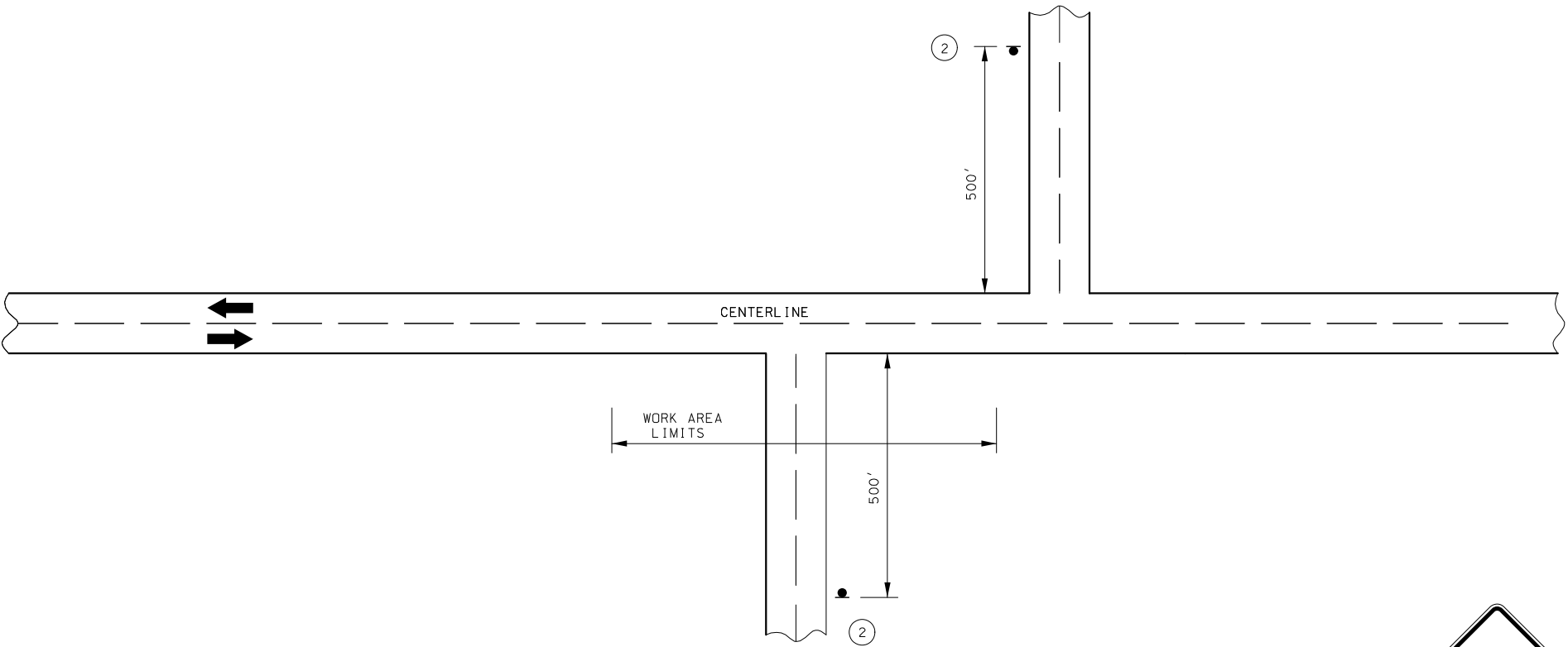
BRIDGE NO.

DATE	DESCRIPTION

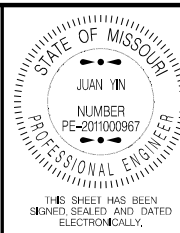
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COMMISSION

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

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TRAFFIC CONTROL  
SHEET 3 OF 6



DATE PREPARED 8/6/2021	
ROUTE 69	STATE MO
DISTRICT KC	SHEET NO. 9
COUNTY CLAY	
JOB NO. J4P3346	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

DATE	DESCRIPTION

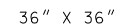
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION



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

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Diagram illustrating a road layout with a 'SIDE ROAD' intersection. The main road has a 'TRAFFIC' lane with arrows indicating flow. The side road has a 'ROAD' lane. A 'TEMPORARY RAISED PAVEMENT MARKER' is shown on the side road, with a '2 MILE (APPROX.)' distance marked. A 'TEMPORARY PAVEMENT MARKING' area is indicated by a long double-headed arrow. Dimensions of 150' and 40' are shown for various segments.



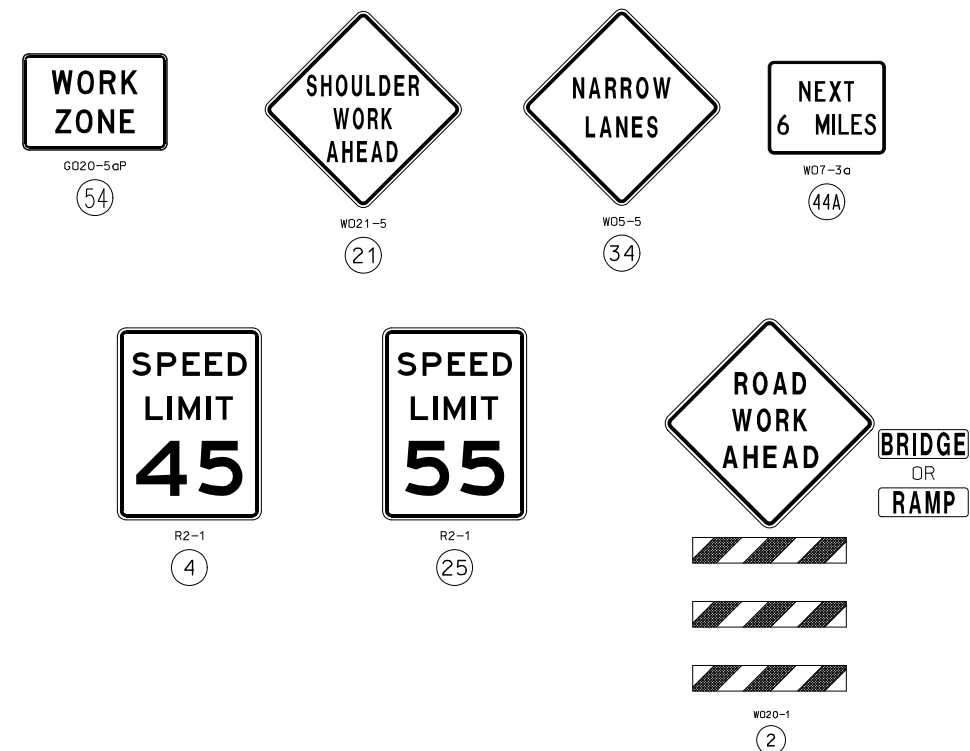
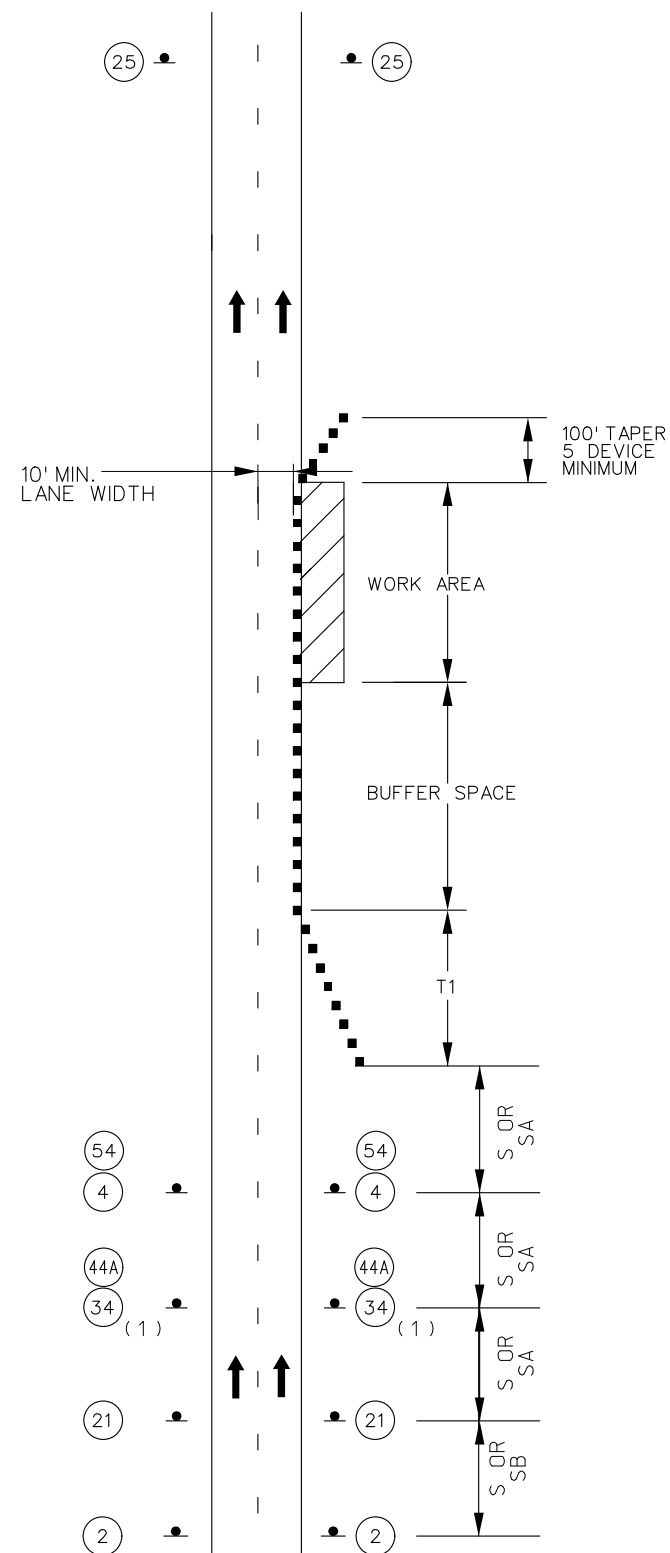
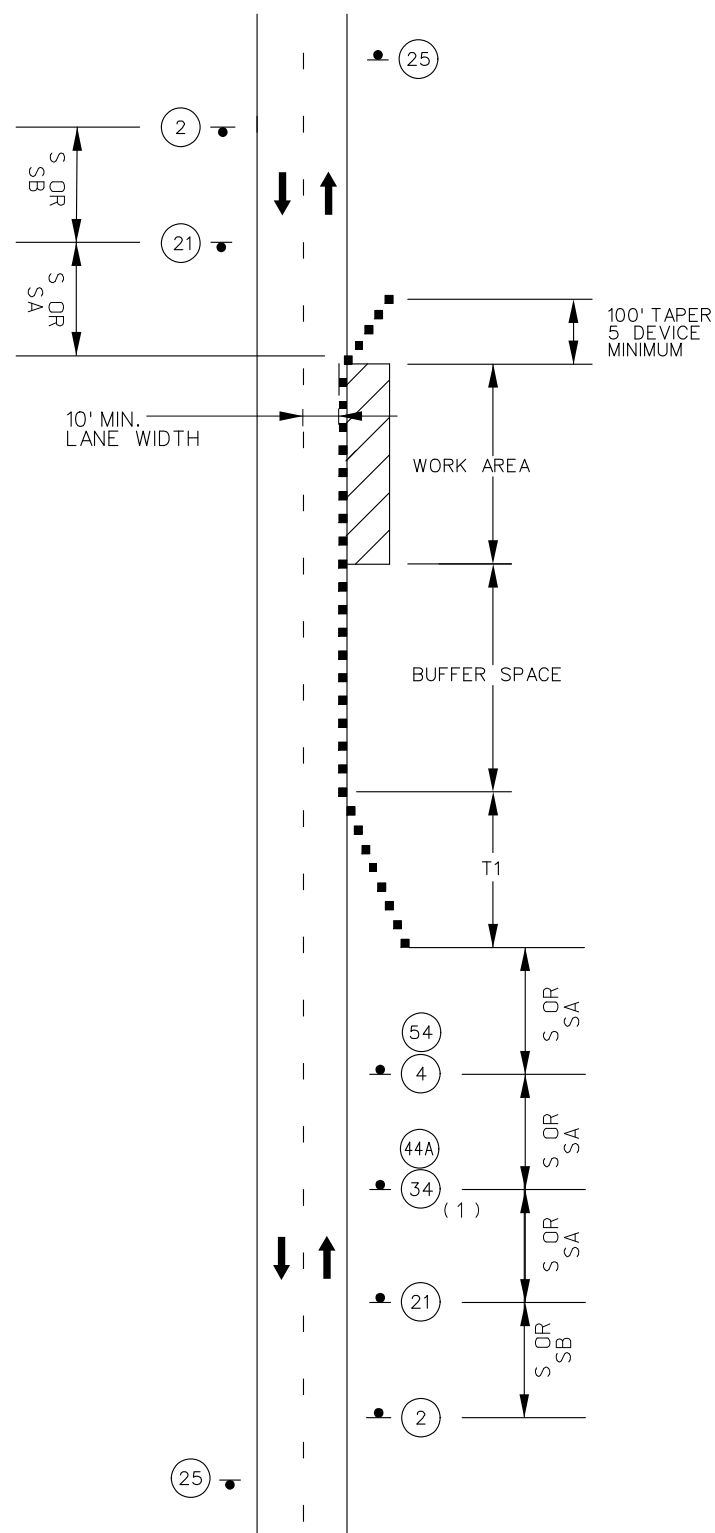
TEMPORARY RAISED PAVEMENT MARKERS SHALL BE INSTALLED BY THE  
END OF EACH DAY.



MISSOURI HIGHWAYS AND TRANSPORTATION  
COMMISSION

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REV.



NOTES:

SEE TRAFFIC CONTROL SHEET 1 FOR WORKZONE SPEED LIMIT GUIDELINES.

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

SIGN 2 NOT REQUIRED IF SHOULDER WORK IS LOCATED WITHIN THE  
LIMITS OF AN ACTIVITY AREA WHERE ANOTHER SIGN 2 IS ALREADY USED.

THE PROTECTIVE VEHICLE MAY BE OMITTED IF A TAPER AND CHANNELIZING DEVICES ARE USED.

VEHICLE- MOUNTED SIGNS SHALL BE MOUNTED IN A MANNER SUCH THAT THEY ARE NOT OBSCURED BY EQUIPMENT OR SUPPLIES. SIGN LEGEND ON VEHICLE-MOUNTED SIGNS SHALL BE COVERED OR TURNED FROM VIEW WHEN WORK IS NOT IN PROGRESS.

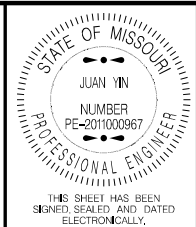
VEHICLE HAZARD WARNING SIGNALS SHALL NOT BE USED INSTEAD OF THE VEHICLE'S HIGH-INTENSITY ROTATING FLASHING, FLASHING, OSCILLATING, OR STROBE LIGHTS.

SHADOW AND WORK VEHICLES SHALL DISPLAY HIGH-DENSITY ROTATING, FLASHING, OSCILLATING, OR STROBE LIGHTS.

(1). SIGN 44A NOT REQUIRED FOR NARROW LANE SECTIONS LESS THAN ONE MILE.

TA-06

SHOULDER WORK  
MINOR ENCROACHMENT  
TEMPORARY  
TRAFFIC CONTROL  
SHEET 5 OF 6

DATE PREPARED  
01/12/2000

07/07/2021	
ROUTE	STATE

69	MU
DISTRICT	SHEET M

KC	11
COUNTY	

CLAY
JOB NO.

J4P3346

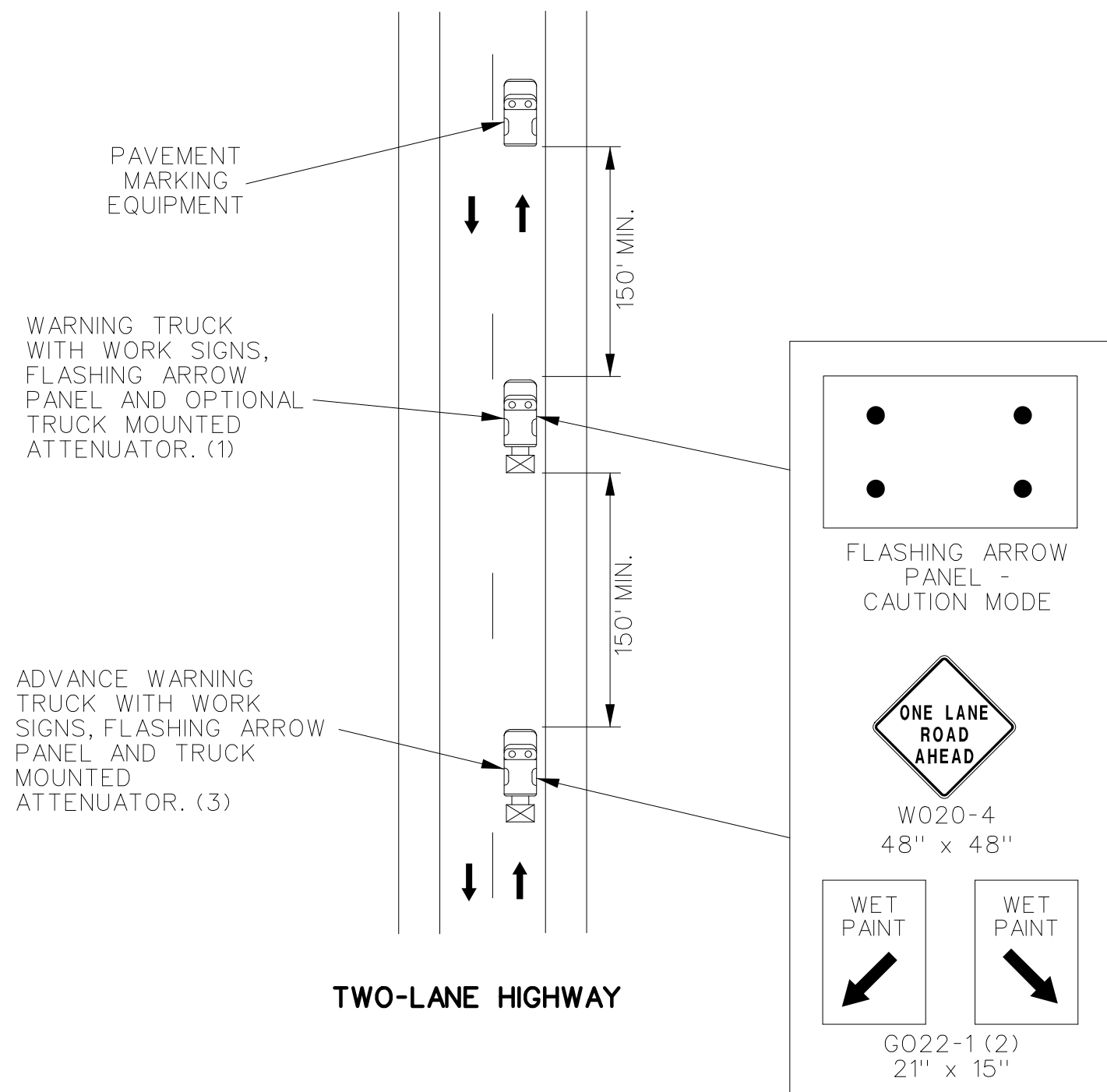
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11/11/2017

[illegible]MISSOURI HIGHWAYS AND TRANSPORTATION  
COMMISSION

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REV.



NOTES:

ALL SIGNS HAVE TYPE 3 FLUORESCENT ORANGE RETROFLECTIVE SHEETING.

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

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

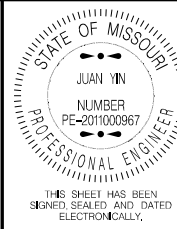
VEHICLE HAZARD WARNING SIGNALS SHALL NOT BE USED INSTEAD OF THE VEHICLE'S HIGH -INTENSITY ROTATING FLASHING, FLASHING, OSCILLATING, OR STROBE LIGHTS.

- (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). ADVANCE WARNING TRUCK IS POSITIONED AT THE NO TRACK POINT OF THE PAVEMENT MARKING MATERIAL OR SPACING SHOWN, WHICHEVER IS GREATER.

MOVING OPERATION ON HIGHWAY  
OPEN TO TRAFFIC

TA-17A

MOVING OPERATION  
OPEN TO TRAFFIC  
TEMPORARY  
TRAFFIC CONTROL  
SHEET 6 OF 6



DATE PREPARED 8/6/2021	
ROUTE 69	STATE MO
DISTRICT KC	SHEET NO. 12
COUNTY CLAY	
JOB NO. J4P3346	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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

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