MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

PLANS FOR PROPOSED

STATE HIGHWAY

LACLEDE & WRIGHT COUNTIES

DESIGN DESIGNATION

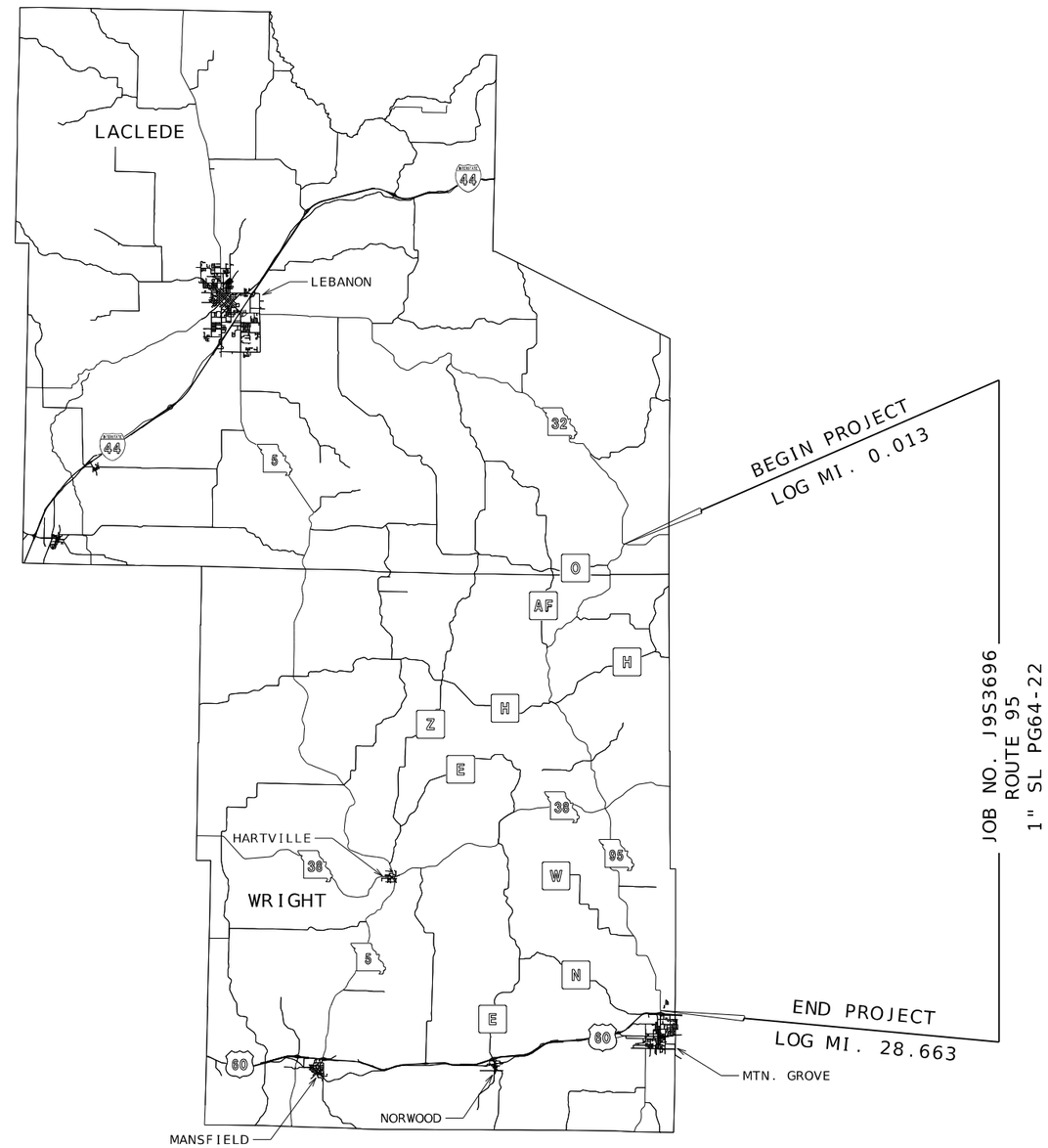
ROUTE 95

A.A.D.T. - 2026 = 9310
A.A.D.T. - 2046 = 10290
D.H.V. = 10%
T = 7%
V = 25-60 M.P.H.
D = 50%

FUNCTIONAL CLASSIFICATION- MAJOR COLLECTOR

NO RIGHT OF WAY TO BE ACQUIRED

KEY MAP
LOCATION OF LACLEDE & WRIGHT COUNTIES



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	SAN	
FIRE HYDRANT	HYD	
WATER VALVE	WV	
WATER METER	WM	
DROP INLET	D	
DITCH BLOCK		
GROUND MOUNTED SIGN	SIGN	
LIGHT POLE		
H-FRAME POWER POLE		
TELEPHONE PEDESTAL	PED	
FENCE		
CHAIN LINK	—V—	
WOVEN WIRE	—X—	
GATE POST		
BENCHMARK	BM	

NOTE: DASHED OR OPEN SYMBOLS INDICATE EXISTING FEATURES

NOT TO SCALE

THE EXISTENCE AND APPROXIMATE LOCATION OF UTILITY FACILITIES KNOWN TO EXIST, AS SHOWN ON THE PLANS, ARE BASED ON THE BEST INFORMATION AVAILABLE TO THE COMMISSION AT THIS TIME. THIS INFORMATION IS PROVIDED BY THE COMMISSION "AS-IS" AND THE COMMISSION EXPRESSLY DISCLAIMS ANY REPRESENTATION OR WARRANTY AS TO THE COMPLETENESS, ACCURACY, OR SUITABILITY OF THE INFORMATION FOR ANY USE. RELIANCE UPON THIS INFORMATION IS DONE AT THE RISK AND PERIL OF THE USER, AND THE COMMISSION SHALL NOT BE LIABLE FOR ANY DAMAGES THAT MAY ARISE FROM ANY ERROR IN THE INFORMATION. IT IS, THEREFORE, THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY THE EXISTENCE, LOCATION AND STATUS OF ANY FACILITY. SUCH VERIFICATION INCLUDES DIRECT CONTACT WITH THE LISTED UTILITIES.

INDEX OF SHEETS

DESCRIPTION	SHEET NUMBER
TITLE SHEET	1
TYPICAL SECTIONS (TS) (1 SHEETS)	2
QUANTITIES (QU) (5 SHEETS)	3
SPECIAL SHEETS (SS)	4-6
TRAFFIC CONTROL SHEETS (TC)	7-8
BRIDGE DRAWINGS (B)	
A2113	1-5

LENGTH OF PROJECT

BEGINNING OF PROJECT	LOG MILE 0.013
END OF PROJECT	LOG MILE 28.663
APPARENT LENGTH	151272.00 FEET
NET LENGTH OF PROJECT	151272.00 FEET
STATE LENGTH	28.650 MILES

REID BRENNEN CATT-ENGINEER
MO# PE-2010019516
Reid Catt
2025.10.16 16:54:54 -04'00'

DATE PREPARED	10/3/2025
ROUTE	95
STATE	MO
DISTRICT	SE
SHEET NO.	1
COUNTY	LACLEDE & WRIGHT
JOB NO.	J9S3696
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

DATE	DESCRIPTION

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

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

olsson
550 ST. LOUIS STREET
SPRINGFIELD, MO 65806
PHONE: 417.890.8802
CERTIFICATE OF AUTHORITY NO. 001592

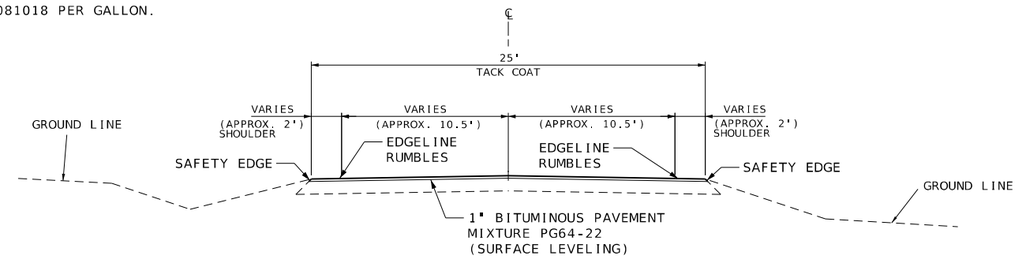
NOTES:

1. SURFACE PLACEMENT SHALL BE ONE PASS PER LANE, MATCH EXISTING PAVEMENT CROSS SLOPE. NO SUPERELEVATION CORRECTION.
2. SEE STANDARD PLAN 401.00 FOR SAFETY EDGE REQUIREMENTS.
3. EXISTING TYPICALS ARE FOR INFORMATION ONLY. PAVEMENT LAYERS MAY VARY FROM TYPICALS.
4. LOG MILE LOCATIONS APPROXIMATE. ADJUST AS DIRECTED BY ENGINEER TO FIT FIELD CONDITIONS.
5. PAET - PERMANENT AGGREGATE EDGE TREATMENT
6. PAET WITH PRIME MC800 SHALL BE APPLIED ALONG EOP TO ACHIEVE A 3:1 SLOPE FOR THE ENTIRE LENGTH OF APPLICATION.
7. PAET SHALL BE PAID FOR AS 3049910 PERMENANT AGGREGATE EDGE TREATMENT, PER TON.
8. PRIME COAT (MC800) SHALL BE PAID FOR UNDER PAY ITEM 4081018 PER GALLON.

ASPHALT FACTORS	
MATERIAL	TONS/C.Y.
1" SL PG64-22	2.034
IRREGULARITIES	200 TON/MILE [1]
IRREGULARITIES	150 TON/MILE [2]
MILLING TRANSITION	1" PER 50'

TACK COAT APPLICATION RATE
0.10 GAL/YD² (UNDILUTED)
PRIME COAT APPLICATION RATE
0.25 GAL/YD² (UNDILUTED)
PERMANENT AGGREGATE EDGE TREATMENT
1.40 TON/YD³

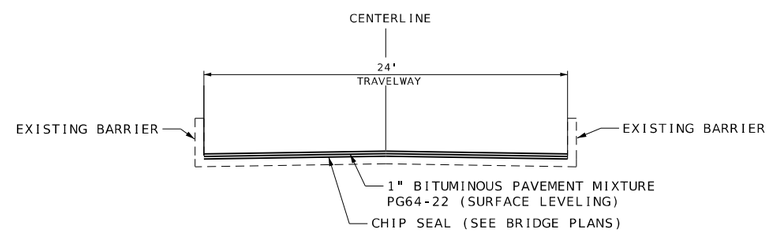
1. 200 TON/MILE FROM ROUTE 32 TO ROUTE 38
2. 150 TON/MILE FROM ROUTE 38 TO ROUTE 60



TYPICAL SECTION ON TANGENT

ROUTE 95

LOG MILE 16.986 TO LOG MILE 28.663

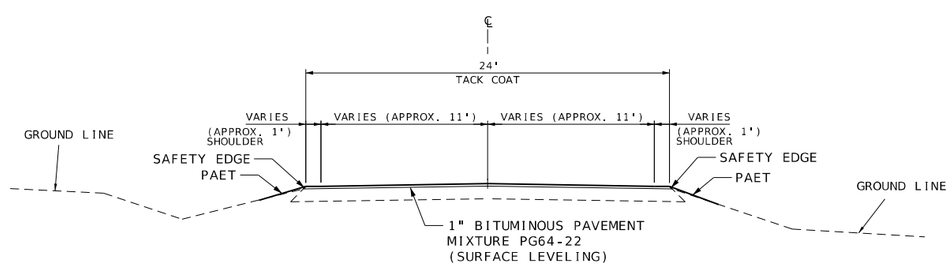


SECTION ON TANGENT

ROUTE 95 BRIDGE A2113

LOG MILE 6.724 TO LOG MILE 6.751

(SEE BRIDGE PLANS FOR DETAILS)



TYPICAL SECTION ON TANGENT

ROUTE 95

LOG MILE 0.013 TO LOG MILE 6.724

LOG MILE 6.751 TO LOG MILE 16.986

DRAWING NOT TO SCALE
FOLLOW DIMENSIONS

ROUTE 95
TYPICAL SHEET
1 OF 1

Reid Catt
2025.09.26 08:07:44-05'00'

REID BRENNEN CATT
NUMBER PE-2010019516

REID BRENNEN CATT-ENGINEER
MO# PE-2010019516

DATE PREPARED	
9/25/2025	
ROUTE 95	STATE MO
DISTRICT SE	SHEET NO. 2
COUNTY LACLEDE & WRIGHT	
JOB NO. J9S3696	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

DATE	DESCRIPTION

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

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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

olsson
550 ST. LOUIS STREET
SPRINGFIELD, MO 65806
PHONE: 417.890.8802
CERTIFICATE OF AUTHORITY NO. 001592

COLDMILLING

LOG MILE	LOG MILE	LOC	LENGTH FT	WIDTH FT	MODIFIED DEPTH TRANSITION SY	REMARKS
0.013	0.022	CL/LT/RT	50	24	133.3	BEGIN PROJECT
1.466	1.504	RT	VAR.	VAR.	69.4	ROUTE O
2.677	2.686	LT	20	VAR.	80.3	ODER ROAD
3.278	3.289	LT	20	VAR.	82.4	MCGUIRE ROAD
5.132	5.163	LT	VAR.	VAR.	55.6	ROUTE KK
5.328	5.337	RT	20	VAR.	56.2	COBLE ROAD
5.539	5.510	RT	20	VAR.	87.1	COBLE ROAD
6.163	6.173	LT	20	VAR.	55.1	BURTON DRIVE
6.715	6.740	CL/LT/RT	50	24	133.3	BRIDGE END (A2113)
6.751	6.760	CL/LT/RT	50	24	133.3	BRIDGE END (A2113)
7.514	7.543	RT	VAR.	VAR.	55.6	ROUTE AF
7.752	7.773	LT	20	VAR.	100.1	BLACKWELL ROAD
9.076	9.088	RT	20	VAR.	118.7	WADE DRIVE
9.297	9.308	RT	20	VAR.	84.0	RADFORD DRIVE
10.394	10.415	RT	20	VAR.	168.5	MAIN ROAD
10.451	10.482	RT	VAR.	VAR.	77.8	ROUTE H
10.522	10.543	LT	20	VAR.	182.1	TIMBER DRIVE
10.741	10.768	LT	VAR.	VAR.	66.7	ROUTE H
11.285	11.312	RT	20	VAR.	245.1	ASH LANE
12.313	12.333	RT	20	VAR.	87.0	GARRETT ROAD
13.384	13.398	LT	20	VAR.	117.4	RATTERREE LANE
14.342	14.368	LT	VAR.	VAR.	55.6	ROUTE JJ
14.342	14.368	RT	VAR.	VAR.	55.6	ROUTE JJ
16.987	17.039	LT	VAR.	VAR.	61.1	ROUTE 38
16.987	17.039	RT	VAR.	VAR.	61.1	ROUTE 38
17.663	17.683	LT	20	VAR.	158.9	BATY ROAD
18.653	18.666	RT	20	VAR.	87.5	THORNHILL DRIVE
20.077	20.088	LT	20	VAR.	62.9	EAST ROAD
20.149	20.167	RT	20	VAR.	110.9	DOVE CREEK ROAD
20.158	20.173	LT	20	VAR.	85.8	GREENTREE ROAD
20.446	20.458	LT	20	VAR.	98.6	EAST ROAD
20.663	20.684	LT	20	VAR.	179.6	LOCUST LANE
21.321	21.353	LT	VAR.	VAR.	61.1	ROUTE FF
21.775	21.788	RT	20	VAR.	79.2	SARTER ROAD
23.035	23.048	RT	20	VAR.	77.7	SIMPSON ROAD
23.541	23.551	LT	20	VAR.	63.0	HOLLY LANE
24.128	24.156	RT	VAR.	VAR.	61.1	ROUTE W
24.144	24.156	LT	20	VAR.	71.0	MARSHALL ROAD
24.481	24.506	LT	20	VAR.	168.1	NETTLETON DRIVE
25.121	25.144	RT	20	VAR.	142.2	PEACH CORNER DRIVE
25.202	25.237	RT	20	VAR.	204.6	MTN. VALLEY ROAD
25.626	25.653	LT	20	VAR.	141.9	WILLOW ROAD
25.693	25.703	LT	20	VAR.	86.4	WILLOW ROAD CONNECTOR
26.783	26.807	LT	20	VAR.	174.2	GIRLSTOWN ROAD
27.990	28.004	RT	20	VAR.	91.6	ELLIOT ROAD
28.031	28.044	LT	20	VAR.	100.0	GREEN MEADOW
28.489	28.505	LT	20	VAR.	54.8	RED SPRINGS ROAD
28.654	28.663	CL/LT/RT	50	29	161.1	END PROJECT
			4	VAR.	199.1	16 ENTRANCES
				TOTAL	5143.7	

LOG MILES ARE APPROXIMATE. EXACT LOCATIONS TO BE DETERMINED BY ENGINEER.

MOBILIZATION

1 LUMP SUM

REMOVAL OF IMPROVEMENTS

LOG MILE	LOG MILE	LOCATION	DESCRIPTION
6.724		ROUTE 95	2- OBJECT MARKERS & POST
6.751		ROUTE 95	2- OBJECT MARKERS & POST
1 LUMP SUM			

GUARDRAIL

LOG MILE	LOG MILE	LOCATION	MGS GUARDRAIL 8 FT POST (L.F.)	MGS BRIDGE APPROACH TRANSITION (EA.)	TYPE A CRASHWORTHY END TERMINAL (MASH) (EA.)	MODIFIED SHAPING SLOPES CLASS III (LF)	REMARKS
6.700	6.724	ROUTE 95 RT	37.5	1	1	125	A2113 NW CORNER
6.700	6.724	ROUTE 95 LT	37.5	1	1	125	A2113 NE CORNER
6.751	6.775	ROUTE 95 RT	37.5	1	1	125	A2113 SW CORNER
6.751	6.775	ROUTE 95 LT	37.5	1	1	125	A2113 SE CORNER
		TOTAL	150.0	4.0	4.0	500.0	

SUMMARY OF QUANTITIES
1 OF 5

Reid Catt
2025.09.19 09:15:25-05'00'

REID BRENNEN CATT
NUMBER
PE-2010019516

REID BRENNEN CATT-ENGINEER
MO# PE-2010019516

DATE PREPARED
9/16/2025

ROUTE	STATE
95	MO
DISTRICT	SHEET NO.
SE	3

COUNTY
LACLEDE & WRIGHT

JOB NO.
J9S3696

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DATE	DESCRIPTION

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

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
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PAVEMENT & ENTRANCES

LOG MILE	LOG MILE	LOC	LENGTH FT	WIDTH FT	MEASURED AREA SY	THICK IN	BITUMINOUS PAVEMENT MIXTURE PG64-22 (SURFACE LEVELING) (2.034 TON/CY) (TON)	TACK COAT (0.10 GAL/SY) (GAL)	PRIME COAT (MC800) (0.25 GAL/SY) (GAL)	PERMANENT AGGREGATE EDGE TREATMENT (TONS)	GRAVEL (A) OR CRUSHED STONE (B) (CY)	REMARKS
0.013	0.198	CL/LT/RT	977	24.0	2605.3	1.0	147.1	260.5	27.1	4.2		BEGIN PROJECT TO WINTER DRIVE
0.198	1.482	CL/LT/RT	6780	24.0	18080.0	1.0	1021.5	1808.0	188.3	29.3		WINTER DRIVE TO ROUTE O
1.482	2.681	CL/LT/RT	6331	24.0	16882.7	1.0	953.9	1688.3	175.9	27.3		ROUTE O TO ODER ROAD
2.681	3.282	CL/LT/RT	3173	24.0	8461.3	1.0	478.1	846.1	88.1	13.7		ODER ROAD TO MCGUIRE ROAD
3.282	5.147	CL/LT/RT	9847	24.0	26258.7	1.0	1483.6	2625.9	273.5	42.5		MCGUIRE ROAD TO ROUTE KK
5.147	5.331	CL/LT/RT	972	24.0	2592.0	1.0	146.4	259.2	27.0	4.2		ROUTE KK TO COBLE ROAD
5.331	5.544	CL/LT/RT	1125	24.0	3000.0	1.0	169.5	300.0	31.3	4.9		COBLE ROAD TO COBLE ROAD
5.544	6.166	CL/LT/RT	3284	24.0	8757.3	1.0	494.8	875.7	91.2	14.2		COBLE ROAD TO BURTON DRIVE
6.166	6.724	CL/LT/RT	2946	24.0	7856.0	1.0	443.9	785.6	81.8	12.7		BURTON DRIVE TO BRIDGE (A2113)
6.751	7.534	CL/LT/RT	4134	24.0	11024.0	1.0	622.9	1102.4	114.8	17.9		BRIDGE (A2113) TO ROUTE AF
7.534	7.766	CL/LT/RT	1225	24.0	3266.7	1.0	184.6	326.7	34.0	5.3		ROUTE AF TO BLACKWELL ROAD
7.766	9.083	CL/LT/RT	6954	24.0	18544.0	1.0	1047.7	1854.4	193.2	30.0		BLACKWELL ROAD TO WADE DRIVE
9.083	9.304	CL/LT/RT	1167	24.0	3112.0	1.0	175.8	311.2	32.4	5.0		WADE DRIVE TO RADFORD DRIVE
9.304	10.404	CL/LT/RT	5808	24.0	15488.0	1.0	875.1	1548.8	161.3	25.1		RADFORD DRIVE TO MAIN ROAD
10.404	10.468	CL/LT/RT	338	24.0	901.3	1.0	50.9	90.1	9.4	1.5		MAIN ROAD TO ROUTE H
10.468	10.539	CL/LT/RT	375	24.0	1000.0	1.0	56.5	100.0	10.4	1.6		ROUTE H TO TIMBER DRIVE
10.539	10.754	CL/LT/RT	1135	24.0	3026.7	1.0	171.0	302.7	31.5	4.9		TIMBER DRIVE TO ROUTE H
10.754	11.296	CL/LT/RT	2862	24.0	7632.0	1.0	431.2	763.2	79.5	12.4		ROUTE H TO ASH LANE
11.296	12.325	CL/LT/RT	5433	24.0	14488.0	1.0	818.6	1448.8	150.9	23.5		ASH LANE TO GARRETT ROAD
12.325	13.394	CL/LT/RT	5644	24.0	15050.7	1.0	850.4	1505.1	156.8	24.4		GARRETT ROAD TO RATTERREE LANE
13.394	14.353	CL/LT/RT	5064	24.0	13504.0	1.0	763.0	1350.4	140.7	21.9		RATTERREE LANE TO ROUTE JJ
14.353	17.014	CL/LT/RT	14050	24.0	37466.7	1.0	2116.9	3746.7	390.3	60.7		ROUTE JJ TO ROUTE 38
17.014	17.670	CL/LT/RT	3464	25.0	9622.2	1.0	543.7	962.2				ROUTE 38 TO BATY ROAD
17.670	18.660	CL/LT/RT	5227	25.0	14519.4	1.0	820.3	1451.9				BATY ROAD TO THORNHILL DRIVE
18.660	20.084	CL/LT/RT	7519	25.0	20886.1	1.0	1180.1	2088.6				THORNHILL DRIVE TO EAST ROAD
20.084	20.164	CL/LT/RT	422	25.0	1172.2	1.0	66.2	117.2				EAST ROAD TO GREENTREE ROAD
20.164	20.454	CL/LT/RT	1531	25.0	4252.8	1.0	240.3	425.3				GREENTREE ROAD TO EAST ROAD
20.454	20.680	CL/LT/RT	1193	25.0	3313.9	1.0	187.2	331.4				EAST ROAD TO LOCUST LANE
20.680	21.336	CL/LT/RT	3464	25.0	9622.2	1.0	543.7	962.2				LOCUST LANE TO ROUTE FF
21.336	21.783	CL/LT/RT	2360	25.0	6555.6	1.0	370.4	655.6				ROUTE FF TO SARTER ROAD
21.783	23.042	CL/LT/RT	6648	25.0	18466.7	1.0	1043.4	1846.7				SARTER ROAD TO SIMPSON ROAD
23.042	23.545	CL/LT/RT	2656	25.0	7377.8	1.0	416.8	737.8				SIMPSON ROAD TO HOLLY LANE
23.545	24.150	CL/LT/RT	3194	25.0	8872.2	1.0	501.3	887.2				HOLLY LANE TO ROUTE W
24.150	24.495	CL/LT/RT	1822	25.0	5061.1	1.0	286.0	506.1				ROUTE W TO NETTLETON DRIVE
24.495	25.126	CL/LT/RT	3332	25.0	9255.6	1.0	522.9	925.6				NETTLETON DRIVE TO PEACH CORNER DRIVE
25.126	25.231	CL/LT/RT	554	25.0	1538.9	1.0	86.9	153.9				PEACH CORNER DRIVE TO MTN. VALLEY ROAD
25.231	25.634	CL/LT/RT	2128	25.0	5911.1	1.0	334.0	591.1				MTN. VALLEY ROAD TO WILLOW ROAD
25.634	26.792	CL/LT/RT	6114	25.0	16983.3	1.0	959.6	1698.3				WILLOW ROAD TO GIRLSTOWN ROAD
26.792	27.998	CL/LT/RT	6368	25.0	17688.9	1.0	999.4	1768.9				GIRLSTOWN ROAD TO ELLIOT ROAD
27.998	28.037	CL/LT/RT	206	25.0	572.2	1.0	32.3	57.2				ELLIOT ROAD TO GREEN MEADOW
28.037	28.218	CL/LT/RT	956	25.0	2655.6	1.0	150.0	265.6				GREEN MEADOW TO MAIN AVENUE
28.218	28.496	CL/LT/RT	1468	25.0	4077.8	1.0	230.4	407.8				MAIN AVENUE TO RED SPRINGS ROAD
28.496	28.663	CL/LT/RT	882	25.0	2450.0	1.0	138.4	245.0				RED SPRINGS ROAD TO END PROJECT
1.482		RT	VAR.	VAR.	539.2	1.0	30.5	53.9				ROUTE O
2.681		LT	20	VAR.	80.3	1.0	4.5	8.0				ODER DRIVE
3.282		LT	20	VAR.	82.4	1.0	4.7	8.2				MCGUIRE ROAD
5.147		LT	VAR.	VAR.	501.3	1.0	28.3	50.1				ROUTE KK
5.331		RT	20	VAR.	56.2	1.0	3.2	5.6				COBLE ROAD
5.544		RT	20	VAR.	87.1	1.0	4.9	8.7				COBLE ROAD
6.166		LT	20	VAR.	55.1	1.0	3.1	5.5				BURTON DRIVE
7.534		RT	VAR.	VAR.	468.4	1.0	26.5	46.8				ROUTE AF
7.766		LT	20	VAR.	100.1	1.0	5.7	10.0				BLACKWELL ROAD
9.083		RT	20	VAR.	118.7	1.0	6.7	11.9				WADE DRIVE
9.304		RT	20	VAR.	84.0	1.0	4.7	8.4				RADFORD DRIVE
10.404		RT	20	VAR.	168.5	1.0	9.5	16.9				MAIN ROAD
10.468		RT	VAR.	VAR.	590.7	1.0	33.4	59.1				ROUTE H
10.539		LT	20	VAR.	182.1	1.0	10.3	18.2				TIMBER DRIVE
10.754		LT	VAR.	VAR.	320.7	1.0	18.1	32.1				ROUTE H
11.296		RT	20	VAR.	245.1	1.0	13.8	24.5				ASH LANE
12.325		RT	20	VAR.	87.0	1.0	4.9	8.7				GARRETT ROAD
13.394		LT	20	VAR.	117.4	1.0	6.6	11.7				RATTERREE LANE
14.353		LT	VAR.	VAR.	353.3	1.0	20.0	35.3				ROUTE JJ
14.353		RT	VAR.	VAR.	328.4	1.0	18.5	32.8				ROUTE JJ
17.014		LT	VAR.	VAR.	1036.7	1.0	58.6	103.7				ROUTE 38
17.014		RT	VAR.	VAR.	1160.4	1.0	65.5	116.0				ROUTE 38
17.670		LT	20	VAR.	158.9	1.0	9.0	15.9				BATY ROAD
18.660		RT	20	VAR.	87.5	1.0	4.9	8.8				THORNHILL DRIVE
			SUBTOTAL-1				23552.6	41686.2	2489.4	387.2	0.0	

LOG MILES ARE APPROXIMATE. EXACT LOCATIONS TO BE DETERMINED BY ENGINEER.

SUMMARY OF QUANTITIES
2 OF 5

Reid Catt
2025.09.19 09:15:55-05'00'

REID BRENNEN CATT
NUMBER
2010019516

REID BRENNEN CATT-ENGINEER
MO# PE-2010019516

DATE PREPARED
9/16/2025

ROUTE	STATE
95	MO

DISTRICT	SHEET NO.
SE	3

COUNTY
LACLEDE & WRIGHT

JOB NO.
J9S3696

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION	DATE

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

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

olsson
550 ST. LOUIS STREET
SPRINGFIELD, MO 65806
PHONE: 417.890.8802
CERTIFICATE OF AUTHORITY NO. 001592

PAVEMENT & ENTRANCES

LOG MILE	LOG MILE	LOC	LENGTH FT	WIDTH FT	MEASURED AREA SY	THICK IN	BITUMINOUS PAVEMENT MIXTURE PG64-22 (SURFACE LEVELING) (2.034 TON/CY) (TON)	TACK COAT (0.10 GAL/SY) (GAL)	PRIME COAT (MC800) (0.25 GAL/SY) (GAL)	PERMANENT AGGREGATE EDGE TREATMENT (TONS)	GRAVEL (A) OR CRUSHED STONE (B) (SY)	REMARKS
20.084		LT	20	VAR.	62.9	1.0	3.6	6.3				EAST ROAD
20.164		RT	20	VAR.	110.9	1.0	6.3	11.1				DOVE CREEK ROAD
20.164		LT	20	VAR.	85.8	1.0	4.8	8.6				GREENTREE ROAD
20.454		LT	20	VAR.	98.6	1.0	5.6	9.9				EAST ROAD
20.680		LT	20	VAR.	179.6	1.0	10.1	18.0				LOCUST LANE
21.336		LT	VAR.	VAR.	433.7	1.0	24.5	43.4				ROUTE FF
21.783		RT	20	VAR.	79.2	1.0	4.5	7.9				SARTER ROAD
23.042		RT	20	VAR.	77.7	1.0	4.4	7.8				SIMPSON ROAD
23.545		LT	20	VAR.	63.0	1.0	3.6	6.3				HOLLY LANE
24.150		RT	VAR.	VAR.	491.7	1.0	27.8	49.2				ROUTE W
24.150		LT	20	VAR.	71.0	1.0	4.0	7.1				MARSHALL ROAD
24.495		LT	20	VAR.	168.1	1.0	9.5	16.8				NETTLETON DRIVE
25.126		RT	20	VAR.	142.2	1.0	8.0	14.2				PEACH TREE CORNER
25.231		RT	20	VAR.	204.6	1.0	11.6	20.5				MTN. VALLEY ROAD
25.634		LT	20	VAR.	141.9	1.0	8.0	14.2				WILLOW ROAD
25.698		LT	20	VAR.	86.4	1.0	4.9	8.6				WILLOW CONNECTOR
26.792		LT	20	VAR.	246.5	1.0	13.9	24.7				GIRLSTOWN ROAD
27.998		RT	20	VAR.	91.6	1.0	5.2	9.2				ELLIOT ROAD
28.037		LT	20	VAR.	100.0	1.0	5.6	10.0				GREENMEADOW
28.496		LT	20	VAR.	54.8	1.0	3.1	5.5				RED SPRINGS ROAD
0.013	28.663	LT/RT	4	VAR.	20.4	VAR.	18.4	32.6				PAVED ENTRANCES (16)
0.013	28.663	LT/RT	4	VAR.	20.4	1.0	298.4	528.4			5283.6	NON-PAVED ENTRANCES (259)
0.013	17.014	LT/RT	89765.28				3400.2					RUTTING & IRREGULARTIES (200 TON/MILE)
17.014	28.663	LT/RT	61506.72				1747.4					RUTTING & IRREGULARTIES (150 TON/MILE)
			SUBTOTAL-2				5633.4	860.3	0.0	0.0	5283.6	
			SUBTOTAL-1				23552.6	41686.2	2489.4	387.2	0.0	
			TOTAL				29186.0	42546.5	2489.4	387.2	5283.6	

LOG MILES ARE APPROXIMATE. EXACT LOCATIONS TO BE DETERMINED BY ENGINEER.

SUMMARY OF QUANTITIES
3 OF 5

REID BRENNEN CATT
2025.10.03 11:08:03-05'00'
PE-2010019516
REID BRENNEN CATT-ENGINEER
MO# PE-2010019516

DATE PREPARED
10/3/2025

ROUTE	STATE
95	MO
DISTRICT	SHEET NO.
SE	3

COUNTY
LACLEDE & WRIGHT

JOB NO.
J9S3696

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.

olsson
550 ST. LOUIS STREET
SPRINGFIELD, MO 65806
PHONE: 417.890.8802
CERTIFICATE OF AUTHORITY NO. 001592

RUMBLE STRIPS

LOG MILE	LOG MILE	LOCATION	EDGELINE RUMBLE STRIPS (STA)
17.048	17.629	ROUTE 95 RT	30.7
17.064	17.263	ROUTE 95 LT	10.5
17.306	17.654	ROUTE 95 LT	18.4
17.672	18.421	ROUTE 95 RT	39.5
17.707	18.183	ROUTE 95 LT	25.1
18.223	18.543	ROUTE 95 LT	16.9
18.463	18.602	ROUTE 95 RT	7.3
18.582	19.552	ROUTE 95 LT	51.2
18.675	19.033	ROUTE 95 RT	18.9
19.071	19.131	ROUTE 95 RT	3.2
19.170	19.670	ROUTE 95 RT	26.4
19.598	19.686	ROUTE 95 LT	4.6
19.725	19.878	ROUTE 95 LT	8.1
19.723	20.052	ROUTE 95 RT	17.4
19.921	20.068	ROUTE 95 LT	7.8
20.113	20.149	ROUTE 95 LT	1.9
20.182	20.223	ROUTE 95 RT	2.2
20.198	20.199	ROUTE 95 LT	0.1
20.236	20.437	ROUTE 95 LT	10.6
20.262	20.340	ROUTE 95 RT	4.1
20.428	20.665	ROUTE 95 RT	12.5
20.517	20.577	ROUTE 95 LT	3.2
20.617	20.654	ROUTE 95 LT	2.0
20.704	20.742	ROUTE 95 LT	2.0
20.782	21.026	ROUTE 95 LT	12.9
20.796	21.004	ROUTE 95 RT	11.0
21.079	21.624	ROUTE 95 RT	28.8
21.095	21.312	ROUTE 95 LT	11.5
21.303	21.750	ROUTE 95 RT	23.6
21.378	21.805	ROUTE 95 LT	22.5
21.797	21.986	ROUTE 95 RT	10.0
21.845	22.063	ROUTE 95 LT	11.5
22.056	22.501	ROUTE 95 RT	23.5
22.102	22.192	ROUTE 95 LT	4.8
22.251	22.368	ROUTE 95 LT	6.2
22.408	22.430	ROUTE 95 LT	1.2
22.488	22.508	ROUTE 95 LT	1.1
22.821	23.010	ROUTE 95 RT	10.0
22.837	22.902	ROUTE 95 LT	3.4
22.943	22.978	ROUTE 95 LT	1.8
23.022	23.078	ROUTE 95 LT	3.0
23.057	23.633	ROUTE 95 RT	30.4
23.117	23.199	ROUTE 95 LT	4.3
23.243	23.362	ROUTE 95 LT	6.3
23.403	23.532	ROUTE 95 LT	6.8
23.576	23.705	ROUTE 95 LT	6.8
23.675	23.950	ROUTE 95 RT	14.5
23.747	23.781	ROUTE 95 LT	1.8
23.822	24.135	ROUTE 95 LT	16.5
23.991	24.103	ROUTE 95 RT	5.9
24.165	24.334	ROUTE 95 RT	8.9
24.181	24.385	ROUTE 95 LT	10.8
24.376	24.587	ROUTE 95 RT	11.1
24.425	24.472	ROUTE 95 LT	2.5
24.531	24.685	ROUTE 95 LT	8.1
24.627	24.839	ROUTE 95 RT	11.2
24.731	24.801	ROUTE 95 LT	3.7
24.844	25.573	ROUTE 95 LT	38.5
24.863	24.982	ROUTE 95 RT	6.3
25.026	25.096	ROUTE 95 RT	3.7
25.153	25.177	ROUTE 95 RT	1.3
25.246	25.674	ROUTE 95 RT	22.6
25.611	25.617	ROUTE 95 LT	0.3
25.717	25.779	ROUTE 95 RT	3.3
25.728	25.925	ROUTE 95 LT	10.4
25.821	25.862	ROUTE 95 RT	2.2
25.901	26.062	ROUTE 95 RT	8.5
25.965	26.034	ROUTE 95 LT	3.6
26.074	26.127	ROUTE 95 LT	2.8
26.100	26.755	ROUTE 95 RT	34.6
26.178	26.208	ROUTE 95 LT	1.6
26.287	26.329	ROUTE 95 LT	2.2
26.371	26.578	ROUTE 95 LT	10.9
		SUBTOTAL-1	783.1

RUMBLE STRIPS

LOG MILE	LOG MILE	LOCATION	EDGELINE RUMBLE STRIPS (STA)
26.618	26.774	ROUTE 95 LT	8.2
26.797	27.112	ROUTE 95 RT	16.6
26.832	26.845	ROUTE 95 LT	0.7
26.891	27.022	ROUTE 95 LT	6.9
27.067	27.154	ROUTE 95 LT	4.6
27.151	27.253	ROUTE 95 RT	5.4
27.193	27.711	ROUTE 95 LT	27.4
27.307	27.416	ROUTE 95 RT	5.8
27.453	27.462	ROUTE 95 RT	0.5
27.512	27.925	ROUTE 95 RT	21.8
27.820	27.859	ROUTE 95 LT	2.1
27.898	28.022	ROUTE 95 LT	6.5
27.964	27.965	ROUTE 95 RT	0.1
28.013	28.091	ROUTE 95 RT	4.1
28.069	28.124	ROUTE 95 LT	2.9
28.169	28.257	ROUTE 95 LT	4.6
28.256	28.428	ROUTE 95 RT	9.1
28.295	28.355	ROUTE 95 LT	3.2
28.398	28.428	ROUTE 95 LT	1.6
		SUBTOTAL-2	132.1
		SUBTOTAL-1	783.1
		TOTAL	915.2

PAVEMENT MARKING

LOG MILE	LOG MILE	LOCATION	CLASS 1 PAVEMENT MARKING PAINT 18-MIL, TYPE P BEADS 4" WHITE (L.F.)	4" YELLOW (L.F.)	REMARKS
0.013	28.663	ROUTE 95		302544.0	DOUBLE YELLOW
0.013	1.466	ROUTE 95 RT	7671.8		EDGELINE
1.504	7.514	ROUTE 95 RT	31732.8		EDGELINE
1.482		ROUTE 95 RT		50.0	DOUBLE YELLOW
0.013	5.132	ROUTE 95 LT	27028.3		EDGELINE
5.147		ROUTE 95 LT		50.0	DOUBLE YELLOW
5.163	10.741	ROUTE 95 LT	29451.8		EDGELINE
7.543	10.451	ROUTE 95 RT	15354.2		EDGELINE
7.534		ROUTE 95 RT		50.0	DOUBLE YELLOW
10.468		ROUTE 95 RT		50.0	DOUBLE YELLOW
10.754		ROUTE 95 LT		50.0	DOUBLE YELLOW
10.482	14.342	ROUTE 95 RT	20380.8		EDGELINE
10.768	14.342	ROUTE 95 LT	18870.7		EDGELINE
14.368	16.987	ROUTE 95 RT	13828.3		EDGELINE
14.368	16.987	ROUTE 95 LT	13828.3		EDGELINE
14.353		ROUTE 95 RT		50.0	DOUBLE YELLOW
14.353		ROUTE 95 LT		50.0	DOUBLE YELLOW
17.039	21.321	ROUTE 95 LT	22609.0		EDGELINE
17.039	24.128	ROUTE 95 RT	37429.9		EDGELINE
17.014		ROUTE 95 RT		50.0	DOUBLE YELLOW
17.014		ROUTE 95 LT		50.0	DOUBLE YELLOW
21.336		ROUTE 95 LT		50.0	DOUBLE YELLOW
21.353	28.663	ROUTE 95 LT	38596.8		EDGELINE
24.156	28.663	ROUTE 95 RT	23797.0		EDGELINE
24.15		ROUTE 95 RT		50.0	DOUBLE YELLOW
0.013	0.018	ROUTE O		50.0	DOUBLE YELLOW
0.007	0.012	ROUTE KK		50.0	DOUBLE YELLOW
0.01	0.021	ROUTE AF		200.0	DOUBLE YELLOW
6.443	6.455	ROUTE H		130.0	DOUBLE YELLOW
6.443	6.455	ROUTE H	130.0		EDGELINES
15.655	15.664	ROUTE H		100.0	DOUBLE YELLOW
2.727	2.736	ROUTE JJ		100.0	DOUBLE YELLOW
2.7	2.709	ROUTE JJ		100.0	DOUBLE YELLOW
16.901	16.927	ROUTE 38		275.0	DOUBLE YELLOW
16.901	16.927	ROUTE 38	370.0		EDGELINES
16.92	16.927	ROUTE 38	75.0		LANELINES
16.934	16.96	ROUTE 38		275.0	DOUBLE YELLOW
16.934	16.96	ROUTE 38	420.0		EDGELINES
16.934	16.942	ROUTE 38	80.0		LANELINES
0.008	0.013	ROUTE FF		50.0	DOUBLE YELLOW
0.009	0.025	ROUTE W		170.0	DOUBLE YELLOW
		TOTAL	301654.7	304594.0	
		USE	301655	304594	
SEE PAVEMENT MARKING LOG JSP					

TEMPORARY PAVEMENT MARKING

LOG MILE	LOG MILE	LOCATION	TEMPORARY REMOVEABLE MARKING TAPE 4" WHITE (L.F.)	4" YELLOW (L.F.)	TEMPORARY REMOVEABLE MARKING TAPE 24" SOLID WHITE (L.F.)	PAVEMENT MARKING REMOVAL (L.F.)	REMARKS
6.530	6.625	ROUTE 95		1000.0		1000.0	DOUBLE YELLOW
6.625		ROUTE 95 RT			11.0	11.0	STOP BAR
6.667	6.808	ROUTE 95 LT	743.0			743.0	EDGELINE LT
6.667	6.808	ROUTE 95 RT	743.0			743.0	EDGELINE RT
6.851		ROUTE 95 LT			11.0	11.0	STOP BAR
6.851	6.945	ROUTE 95		1000.0		1000.0	DOUBLE YELLOW
		TOTAL	1486.0	2000.0	22.0	3508.0	
		USE	1486	2000	22	3508	
SEE PAVEMENT MARKING LOG JSP							

SUMMARY OF QUANTITIES
4 OF 5

REID BRENNEN CATT
NUMBER
PE-2010019516
REID BRENNEN CATT-ENGINEER
MO# PE-2010019516

DATE PREPARED
10/3/2025

ROUTE	STATE
95	MO
DISTRICT	SHEET NO.
SE	3

COUNTY
LACLEDE & WRIGHT

JOB NO.
J9S3696

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)

olsson
550 ST. LOUIS STREET
SPRINGFIELD, MO 65806
PHONE: 417.890.8802
CERTIFICATE OF AUTHORITY NO. 001592

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

SIGN	SIZE IN.	AREA SQ.FT.	QTY EACH	TOTAL AREA SQ.FT.	QTY RELOC EACH	TOTAL RELOC SQ.FT.	SIGN NO.	DESCRIPTION
WARNING SIGNS								
WO1-1L	48X48	16.00						TURN (SYMBOL LEFT)
WO1-1R	48X48	16.00						TURN (SYMBOL RIGHT)
WO1-2L	48X48	16.00						CURVE (SYMBOL LEFT)
WO1-2R	48X48	16.00						CURVE (SYMBOL RIGHT)
WO1-3L	48X48	16.00						REVERSE TURN (SYMBOL LEFT)
WO1-3R	48X48	16.00						REVERSE TURN (SYMBOL RIGHT)
WO1-4L	48X48	16.00	1	16				REVERSE CURVE (SYMBOL LEFT)
WO1-4R	48X48	16.00	1	16				REVERSE CURVE (SYMBOL RIGHT)
WO1-4bL	48X48	16.00						DOUBLE ARROW REVERSE CURVE (SYMBOL LEFT)
WO1-4bR	48X48	16.00						DOUBLE ARROW REVERSE CURVE (SYMBOL RIGHT)
WO1-4cL	48X48	16.00						TRIPLE ARROW REVERSE CURVE (SYMBOL LEFT)
WO1-4cR	48X48	16.00						TRIPLE ARROW REVERSE CURVE (SYMBOL RIGHT)
WO1-6	60X30	12.50						HORIZONTAL ARROW (SYMBOL)
WO1-6a	72X36	18.00						HORIZ. ARROW (SYMBOL ON PERMANENT BARRICADE)
WO1-7	60X30	12.50						DOUBLE HEAD HORIZONTAL ARROW (SYMBOL)
WO1-7a	72X36	18.00						DOUBLE HEAD HORIZ. ARROW (SYMBOL ON PERM. BARR.)
WO1-8	18X24	3.00						CHEVRON (SYMBOL)
WO1-8a	30X36	7.50						CHEVRON (SYMBOL FOR DIVIDED HIGHWAYS)
WO3-1	48X48	16.00						STOP AHEAD (SYMBOL)
WO3-2	48X48	16.00						YIELD AHEAD (SYMBOL)
WO3-3	48X48	16.00	2	32				SIGNAL AHEAD (SYMBOL)
WO3-4	48X48	16.00	33	528				BE PREPARED TO STOP
WO3-5	48X48	16.00						SPEED LIMIT AHEAD
WO4-1L	48X48	16.00						MERGE (SYMBOL FROM LEFT)
WO4-1R	48X48	16.00						MERGE (SYMBOL FROM RIGHT)
WO4-1aL	48X48	16.00						MERGE (LEFT)
WO4-1aR	48X48	16.00						MERGE (RIGHT)
WO5-1	48X48	16.00	2	32				ROAD/BRIDGE/RAMP NARROWS
WO5-3	48X48	16.00						ONE LANE BRIDGE
WO5-5	48X48	16.00						NARROW LANES
WO6-1	48X48	16.00						DIVIDED HIGHWAY (SYMBOL)
WO6-2	48X48	16.00						DIVIDED HIGHWAY END (SYMBOL)
WO6-3	48X48	16.00						TWO WAY TRAFFIC (SYMBOL)
WO7-3a	30X24	5.00						NEXT XX MILES (PLAQUE)
WO8-1	48X48	16.00						BUMP
WO8-2	48X48	16.00						DIP
WO8-3	48X48	16.00						PAVEMENT ENDS
WO8-4	48X48	16.00						SOFT SHOULDER
WO8-5	48X48	16.00						SLIPPERY WHEN WET (SYMBOL)
WO8-6	48X48	16.00						TRUCK CROSSING
WO8-6c	48X48	16.00						TRUCK ENTRANCE
WO8-7	36X36	9.00						LOOSE GRAVEL
WO8-7a	36X36	9.00						FRESH OIL / LOOSE GRAVEL
WO8-9	48X48	16.00						LOW SHOULDER
WO8-11	48X48	16.00	68	1088				UNEVEN LANES
WO8-12	48X48	16.00	42	672				NO CENTER LINE
WO8-15	48X48	16.00						GROOVED PAVEMENT
WO8-15P	30X24	5.00						MOTORCYCLE (PLAQUE)
WO8-17L	48X48	16.00						SHOULDER DROP-OFF (SYMBOL LEFT)
WO8-17R	48X48	16.00						SHOULDER DROP-OFF (SYMBOL RIGHT)
WO8-17P	30X24	5.00						SHOULDER DROP-OFF (PLAQUE)
W10-1	42RND.	9.62						RAILROAD CROSSING
WO12-1	24X24	4.00						DOUBLE DOWN ARROW (SYMBOL)
WO12-2	48X48	16.00						LOW CLEARANCE (SYMBOL)
W012-2x	24X18	3.00						LOW CLEARANCE (PLAQUE)
WO12-2a	84X24	14.00						OVERHEAD LOW CLEARANCE (FEET AND INCHES)
WO12-4	120X60	50.00						LOW CLEARANCE XX FT XX IN XX MILES AHEAD
WO12-5	120X60	50.00						WIDTH RESTRICTION XX FT XX IN XX MILES AHEAD
WO13-1	30X30	6.25						ADVISORY SPEED (PLAQUE)
WO16-2	30X24	5.00						XXX FEET (PLAQUE)
WO16-3	30X24	5.00						X MILE (PLAQUE)
WO20-1	48X48	16.00	41	656				ROAD/BRIDGE/RAMP WORK AHEAD
WO20-2	48X48	16.00						DETOUR AHEAD
WO20-3	48X48	16.00						ROAD CLOSED AHEAD
WO20-4	48X48	16.00	6	96				ONE LANE ROAD AHEAD
WO20-5	48X48	16.00						RIGHT/CENTER/LEFT LANE CLOSED AHEAD
WO20-5a	48X48	16.00						2 RIGHT/CENTER/LEFT LANES CLOSED AHEAD
WO20-6a	48X48	16.00						RIGHT/CENTER/LEFT LANE CLOSED
WO20-7a	48X48	16.00	37	592				FLAGGER (SYMBOL)
WO21-2	36X36	9.00						FRESH OIL
WO21-5	48X48	16.00	2	32				SHOULDER WORK / SHOULDER WORK AHEAD
WO22-1	48X48	16.00						BLASTING ZONE AHEAD
WO22-2	42X36	10.50						TURN OFF 2-WAY RADIO AND PHONE
WO22-3	42X36	10.50						END BLASTING ZONE
GO22-1	21X15	2.19	2	4.38				WET PAINT (ARROW PIVOTS)

SIGN	SIZE IN.	AREA SQ.FT.	QTY EACH	TOTAL SQ.FT.	QTY RELOC EACH	TOTAL RELOC SQ.FT.	SIGN NO.	DESCRIPTION
GUIDE SIGNS								
E05-1	36X48	12.00						GORE EXIT
E05-2	48X36	12.00						EXIT OPEN
E05-2a	48X36	12.00						EXIT CLOSED
GO20-1	60X24	10.00	2	20				ROAD WORK NEXT XX MILES
GO20-2	48X24	8.00	2	16				END ROAD WORK
GO20-4	36X18	4.50	4	18				PILOT CAR FOLLOW ME
GO20-4a	42X30	8.75	44	385				PILOT CAR IN USE WAIT & FOLLOW
GO20-4a	18X12	1.50	275	412.5				PILOT CAR IN USE WAIT & FOLLOW
GO20-5aP	36X24	6.00	2	12				WORK ZONE (PLAQUE)
MO4-8a	24X18	3.00						END DETOUR
MO4-9L	48X36	12.00						DETOUR (LEFT)
MO4-9R	48X36	12.00						DETOUR (RIGHT)
MO4-9P	48X12	4.00						STREET NAME (PLAQUE)
MO4-10L	48X18	6.00						DETOUR ARROW (LEFT)
MO4-10R	48X18	6.00						DETOUR ARROW (RIGHT)
REGULATORY SIGNS								
R1-1	48X48	13.25						STOP
R1-2	48TRI.	6.93						YIELD
R1-2a	36X36	9.00						TO ONCOMING TRAFFIC (PLAQUE)
R1-3P	30X12	2.50						ALL WAY (PLAQUE)
R2-1	36X48	12.00	4	48				SPEED LIMIT 2-45, 2-55
R3-1	48X48	16.00						NO RIGHT TURN (SYMBOL)
R3-2	48X48	16.00						NO LEFT TURN (SYMBOL)
R3-3	36X36	9.00						NO TURNS
R3-4	48X48	16.00						NO U-TURN (SYMBOL)
R3-7L	30X30	6.25						LEFT LANE MUST TURN LEFT
R3-7R	30X30	6.25						RIGHT LANE MUST TURN RIGHT
R4-1	36X48	12.00						DO NOT PASS
R4-2	36X48	12.00						PASS WITH CARE
R4-7a	36X48	12.00						KEEP RIGHT (HORIZONTAL ARROW)
R4-8a	36X48	12.00						KEEP LEFT (HORIZONTAL ARROW)
R5-1	30X30	6.25						DO NOT ENTER
R5-1a	36X24	6.00						WRONG WAY
R6-1L	54X18	6.75						ONE WAY ARROW (LEFT)
R6-1R	54X18	6.75						ONE WAY ARROW (RIGHT)
R6-2L	24X30	5.00						ONE WAY (LEFT)
R6-2R	24X30	5.00						ONE WAY (RIGHT)
R9-9	24X12	2.00						SIDEWALK CLOSED
R9-11L	24X18	3.00						SIDEWALK CLOSED AHEAD, (ARROW LEFT) CROSS HERE
R9-11R	24X18	3.00						SIDEWALK CLOSED AHEAD, (ARROW RIGHT) CROSS HERE
R10-6	24X36	6.00	2	12				STOP HERE ON RED (45^ ARROW)
R11-2	48X30	10.00						ROAD CLOSED
R11-3a	60X30	12.50						ROAD CLOSED XX MILES AHEAD LOCAL TRAFFIC ONLY
R11-4	60X30	12.50						ROAD CLOSED TO THRU TRAFFIC
CONST-3A	60X48	20.00						FINE SIGN
CONST-3X	56X12	4.67						SPEEDING/PASSING (PLATE)
MISCELLANEOUS SIGNS								
CONST-5	48X36	12.00						POINT OF PRESENCE
CONST-5	96X48	32.00						POINT OF PRESENCE
CONST-7	48X36	12.00	2	24				RATE OUR WORK ZONE
CONST-8	48X36	12.00	2	24				WORK ZONE NO PHONE ZONE

616-10.05 CONSTRUCTION SIGNS	TOTAL	4735.88
616-10.10 RELOCATED SIGNS	TOTAL	

EFFECTIVE: 07-01-2025

ITEM NUMBER	TOTAL QTY	DESCRIPTION
6122008		IMPACT ATTENUATOR 40 MPH (SAND BARRELS)
6122009		IMPACT ATTENUATOR 45 MPH (SAND BARRELS)
6122010		IMPACT ATTENUATOR 50 MPH (SAND BARRELS)
6122012		IMPACT ATTENUATOR 55 MPH (SAND BARRELS)
6122014		IMPACT ATTENUATOR 60 MPH (SAND BARRELS)
6122017		IMPACT ATTENUATOR 65 MPH (SAND BARRELS)
6122019		IMPACT ATTENUATOR 70 MPH (SAND BARRELS)
6122020		REPLACEMENT SAND BARREL
6122030		IMPACT ATTENUATOR (RELOCATION)
6122040	2*	WORK ZONE CRASH CUSHION (NARROW)
6122041	2*	WORK ZONE CRASH CUSHION (RELOCATION)
6123001		TRUCK MOUNTED ATTENUATOR (TMA)
6161012		BUOYS (BOATS KEEP OUT)
6161013		BUOYS (NO WAKE)
6161014		SPECIAL SIGN ASSEMBLY (BOATS KEEP OUT)
6161020		CHANNELIZER (DRUM-LIKE)
6161022		CHANNELIZER (CONE)
6161025	200*	CHANNELIZER (TRIM-LINE)
6161026		CHANNELIZER (VERTICAL PANEL)
6161030		TYPE 3 MOVEABLE BARRICADE
6161033		DIRECTION INDICATOR BARRICADE
6161040		FLASHING ARROW PANEL
6161047		TYPE 3 OBJECT MARKER
6161055		SEQUENTIAL FLASHING WARNING LIGHT
6161070		TUBULAR MARKER
6161095		RADAR SPEED ADVISORY SYSTEM
6161096		CHANGEABLE MESSAGE SIGN, COMMISSION FURNISHED/RETAINED
6161098A	2*	CHANGEABLE MESSAGE SIGN WITHOUT COMM. INTERFACE, CONTRACTOR FURNISHED/RETAINED
6161099		CHANGEABLE MESSAGE SIGN WITH COMM. INTERFACE, CONTRACTOR FURNISHED/RETAINED
6162000A	1*	WORK ZONE TRAFFIC SIGNAL SYSTEM
6162002	2*	TEMPORARY LONG-TERM RUMBLE STRIPS
6173600D	750*	TEMPORARY TRAFFIC BARRIER, CONTRACTOR FURNISHED/RETAINED
6173700B		TEMP. TRAFFIC BARRIER ANCHORED, CONTRACTOR FURNISHED/RETAINED
6173706		TEMP. TRAFFIC BARRIER STIFFNESS TRANSITION CONTRACTOR FURNISHED/RETAINED
6174000A		TEMP. TRAFFIC BARRIER HEIGHT TRANSITION, CONTRACTOR FURNISHED/RETAINED
6175010A	750*	RELOCATING TEMPORARY TRAFFIC BARRIER
6175011B		RELOCATING TEMP. TRAFFIC BARRIER ANCHORED
6175013		RELOCATING TEMP. TRAFFIC BARRIER STIFFNESS
6175020A		RELOCATING TEMP. TRAFFIC BARRIER HEIGHT
6208064A		TEMPORARY RAISED PAVEMENT MARKER
9029400		TEMPORARY TRAFFIC SIGNALS
9029401		TEMPORARY TRAFFIC SIGNALS AND LIGHTING

LUMP SUM TEMPORARY TRAFFIC CONTROL
1 LUMP SUM

NOTE: ALL TRAFFIC CONTROL DEVISES ARE INCLUDED IN PAY ITEM 6199901 LUMP SUM TEMPORARY TRAFFIC CONTROL UNLESS NOTED OTHERWISE IN THE PLANS. THESE QUANTITIES ARE ONLY AN ESTIMATE & ARE SUBJECT TO CHANGE BASED ON FIELD CONDITIONS.

* ITEMS NOT INCLUDED IN LUMP SUM TEMPORARY TRAFFIC CONTROL

REFER TO STANDARD PLAN 616.20 FOR TEMPOARY TRAFFIC CONTROL DETAILS

SUMMARY OF QUANTITIES
5 OF 5

REID BRENNEN CATT-ENGINEER
MO# PE-2010019516
Reid Catt 2025.10.16 16:55:33-05'00'

DATE PREPARED 10/3/2025

ROUTE 95 | STATE MO | DISTRICT SE | SHEET NO. 3

COUNTY LACLEDE & WRIGHT

JOB NO. J9S3696

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

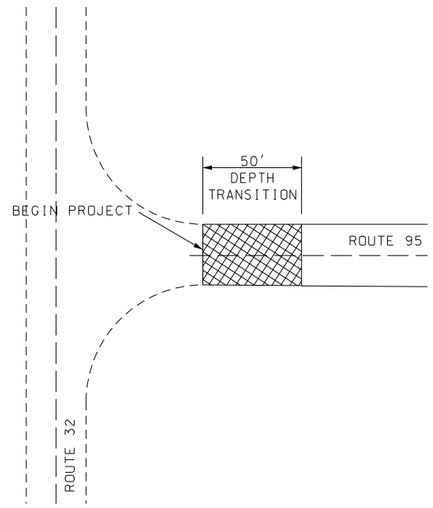
DESCRIPTION | DATE

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

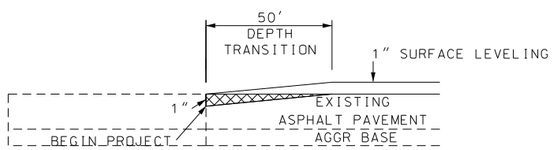
olsson
550 ST. LOUIS STREET
SPRINGFIELD, MO 65806
PHONE: 417.890.8802
CERTIFICATE OF AUTHORITY NO. 001592

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

BEGIN PROJECT

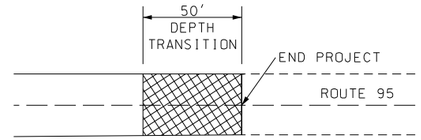


PLAN VIEW

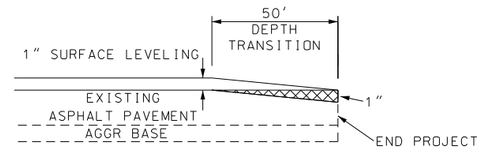


TYPICAL

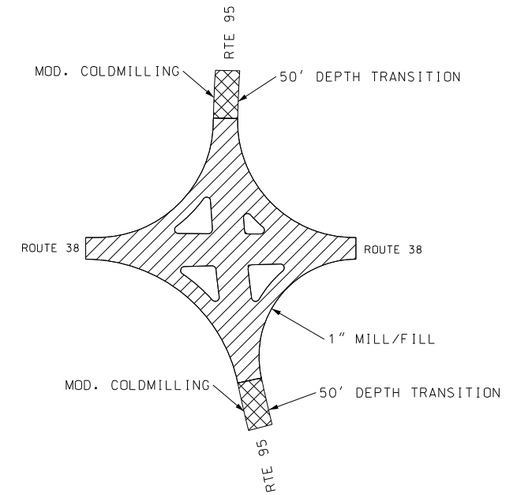
END PROJECT



PLAN VIEW



TYPICAL

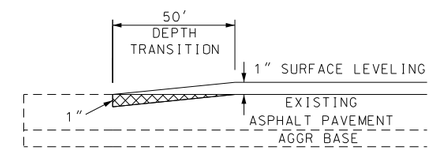


PLAN VIEW

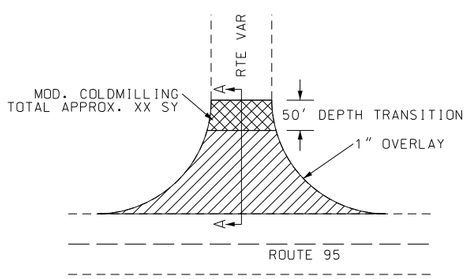
OVERLAY

MODIFIED COLDMILLING (DEPTH TRANSITIONS)

LOG MILE LOCATIONS APPROXIMATE ADJUST AS DIRECTED BY ENGINEER TO FIT FIELD CONDITIONS.

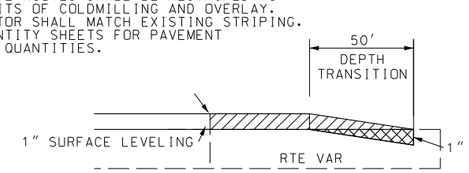


TYPICAL
VARIOUS ROUTES

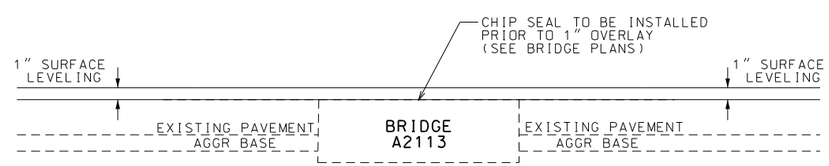


TYPICAL STATE ROUTE JUNCTION
ROUTES. O, KK, AF
ROUTE H (EAST/WEST)
ROUTE JJ (EAST/WEST)
ROUTES FF & W

NOTE:
ALL STATE ROUTES SHALL BE RESTRIPED TO THE LIMITS OF COLDMILLING AND OVERLAY. CONTRACTOR SHALL MATCH EXISTING STRIPING. SEE QUANTITY SHEETS FOR PAVEMENT MARKING QUANTITIES.



TYPICAL
SECTION A-A



TYPICAL AT BRIDGE A2113

DRAWING NOT TO SCALE

SPECIAL SHEET
1 OF 3

REID BRENNEN CATT-ENGINEER
MO# PE-2010019516

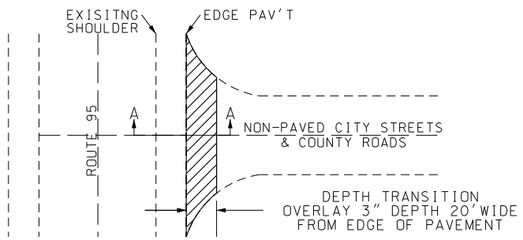
DATE PREPARED	10/3/2025
ROUTE 95	STATE MO
DISTRICT SE	SHEET NO. 4
COUNTY LACLEDE & WRIGHT	
JOB NO. J9S3696	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

DATE	DESCRIPTION

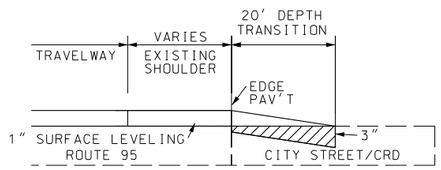
IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

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

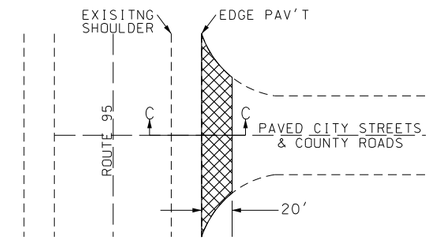
olsson
550 ST. LOUIS STREET
SPRINGFIELD, MO 65806
PHONE: 417.890.8802
CERTIFICATE OF AUTHORITY NO. 001592



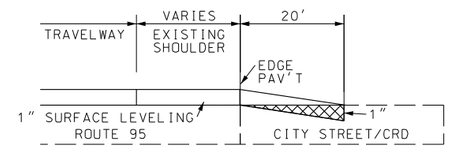
PLAN VIEW FOR NON-PAVED CITY STREETS AND COUNTY ROADS



TYPICAL SECTION A-A



PLAN VIEW FOR PAVED CITY STREETS AND COUNTY ROADS

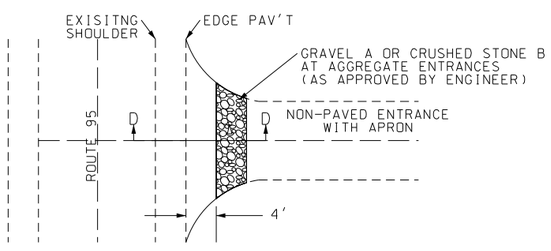


TYPICAL SECTION C-C

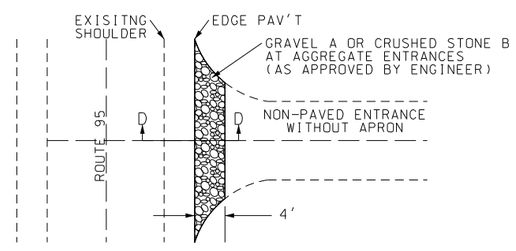
MODIFIED COLDMILLING (DEPTH TRANSITIONS)

GRADING

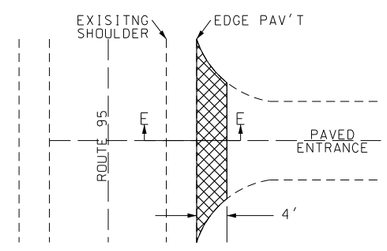
GRAVEL A OR CRUSHED STONE B



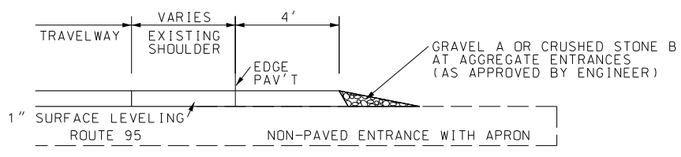
PLAN VIEW FOR NON-PAVED PRIVATE AND COMMERCIAL ENTRANCES WITH EXISTING APRON



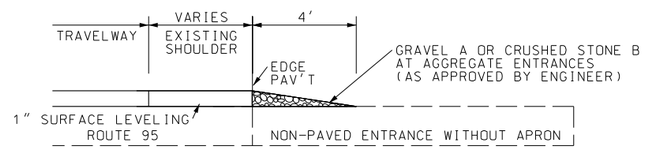
PLAN VIEW FOR NON-PAVED PRIVATE AND COMMERCIAL ENTRANCES INCLUDING MAILBOXES



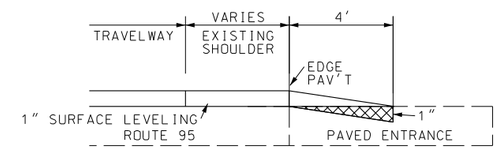
PLAN VIEW FOR PAVED PRIVATE AND COMMERCIAL ENTRANCES



TYPICAL SECTION D-D



TYPICAL SECTION D-D



TYPICAL SECTION E-E

NOTES

ALL GRADING NECESSARY FOR THE PROPER CONSTRUCTION OF HOT MIX AND AGGREGATE APRONS SHALL BE CONSIDERED INCIDENTAL WORK AND AT NO DIRECT PAY.

THE WIDTH OF ALL HOT MIX AND AGGREGATE APRONS MAY BE ADJUSTED BY THE ENGINEER AS NECESSARY TO OBTAIN SUITABLE TRANSITIONS.

DRAWING NOT TO SCALE

SPECIAL SHEET
2 OF 3

Reid Catt
2025.09.26 08:09:08-05'00'

REID BRENNEN CATT
NUMBER PE-2010019516

REID BRENNEN CATT-ENGINEER
MO# PE-2010019516

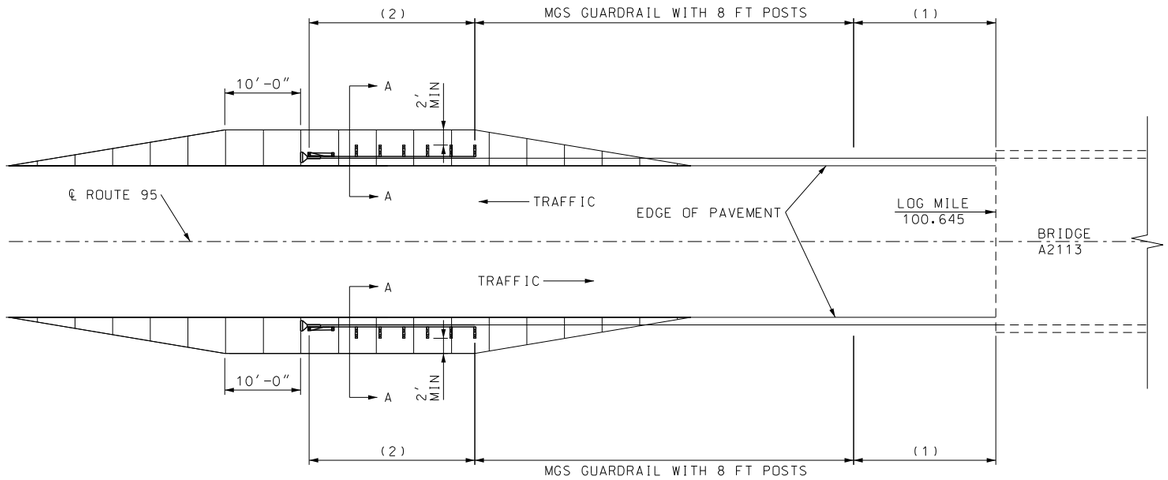
DATE PREPARED	
9/25/2025	
ROUTE 95	STATE MO
DISTRICT SE	SHEET NO. 5
COUNTY LACLEDE & WRIGHT	
JOB NO. J9S3696	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

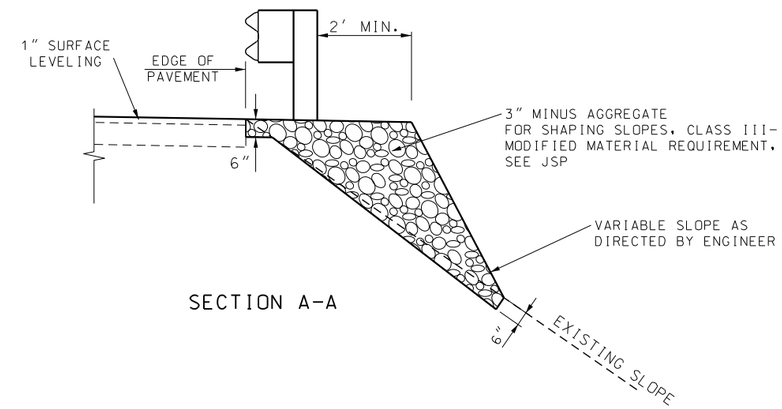
DATE	DESCRIPTION

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

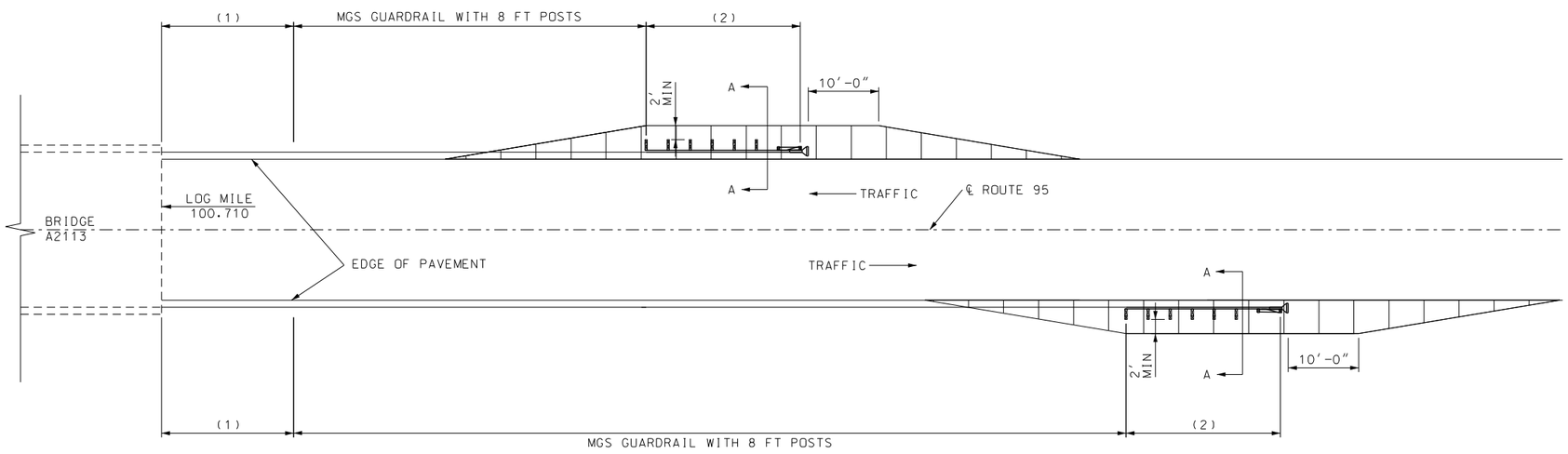
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

olsson
550 ST. LOUIS STREET
SPRINGFIELD, MO 65806
PHONE: 417.890.8802
CERTIFICATE OF AUTHORITY NO. 001592





SECTION A-A



TYPICAL GUARDRAIL AND GRADING LIMITS AT BRIDGE A2113

(1) MGS BRIDGE APPROACH TRANSITION
(2) TYPE A CRASHWORTHY END TERMINAL (MASH)

NOTES:

1. SEE STD 606.81 FOR GRADING LIMITS OF SHAPING SLOPES CLASS III-MODIFIED MATERIAL REQUIREMENTS.
2. SHAPING SLOPES CLASS III-MODIFIED MATERIAL REQUIREMENTS SHALL BE PAID FOR AS 2159903 SHAPING SLOPES CLASS III - MODIFIED MATERIAL REQUIREMENTS, PER LINEAR FOOT.

LOG MILE LOCATIONS APPROXIMATE.
ADJUST AS DIRECTED BY ENGINEER TO FIT FIELD CONDITIONS

DRAWING NOT TO SCALE

SPECIAL SHEET
3 OF 3

Reid Catt
2025.09.19 09:18:17-05'00'

REID BRENNEN CATT
NUMBER
PE-2010019516

REID BRENNEN CATT-ENGINEER
MO# PE-2010019516

DATE PREPARED	
9/17/2025	
ROUTE 95	STATE MO
DISTRICT SE	SHEET NO. 6
COUNTY LACLEDE & WRIGHT	
JOB NO. J9S3696	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

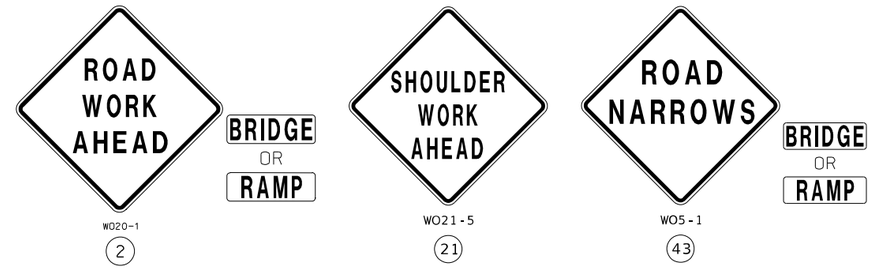
DATE	DESCRIPTION

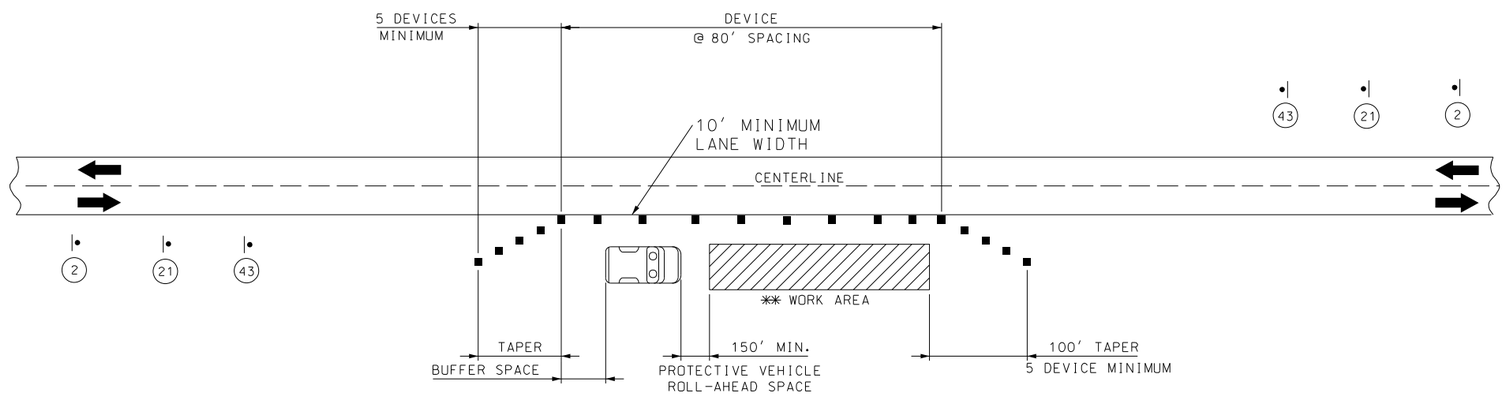
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

olsson
550 ST. LOUIS STREET
SPRINGFIELD, MO 65806
PHONE: 417.890.8802
CERTIFICATE OF AUTHORITY NO. 001592

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

SPEED	SIGN SPACING		TAPER LENGTH		OPTIONAL	CHANNELIZER SPACING	
PERMANENT POSTED (MPH)	NON-DIVIDED HIGHWAYS (S)	DIVIDED HIGHWAYS (S)	SHOULDER (1) (T1)	SHOULDER (2)(T2)	BUFFER LENGTH (B)	TAPER	BUFFER/ WORK AREA
0-35	200′	200′	70′	245′	280′	35′	40′
40-45	350′	500′	150′	540′	400′	40′	80′
50-55	500′	1000′	185′	660′	560′	50′	80′
60-70	1000′	(SA)-1000′ (SB)-1500′ (SC)-2640′	235′	840′	840′	60′	120′





WORK ZONE FOR SHOULDER WORK WITH MINOR ENCROACHMENT ON DIVIDED AND UNDIVIDED HIGHWAYS

NOTES:

- REFER TO STANDARD PLAN SHEETS 616.20 FOR ADDITIONAL TEMPORARY TRAFFIC CONTROL.
- SPACINGS MAY BE ADJUSTED AS NECESSARY TO MEET FIELD CONDITIONS.
- NO PAYMENT WILL BE MADE FOR RELOCATION OF CONSTRUCTION SIGNS.
- 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 LEGENDS ON VEHICLE-MOUNTED SIGNS SHALL BE COVERED OR TURNED FROM FIEW WHEN WORK IS NOT IN PROGRESS.
- VEHICLE HAZARD WARNING SIGNALS SHALL NOT BE USED INSTEAD OF VEHICLE'S ROTATING LIGHTS OR STROBE LIGHTS.

(1) SHOULDER TAPER LENGTH BASED ON 10′(STANDARD SHOULDER WIDTH) OFFSET.
(2) LANE TAPER LENGTH BASED ON 12′(STANDARD LANE WIDTH) OFFSET.

TRAFFIC CONTROL LEGEND

• SIGN (SINGLE SIDED)

■ CHANNELIZER

DRAWING NOT TO SCALE

TRAFFIC CONTROL
1 OF 2

Reid Catt
2025.09.19 09:18:43-05'00'

REID BRENNEN CATT
NUMBER
PE-2010019516

REID BRENNEN CATT-ENGINEER
MO# PE-2010019516

DATE PREPARED
9/16/2025

ROUTE	STATE
95	MO
DISTRICT	SHEET NO.
SE	7

COUNTY
LACLEDE & WRIGHT

JOB NO.
J9S3696

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

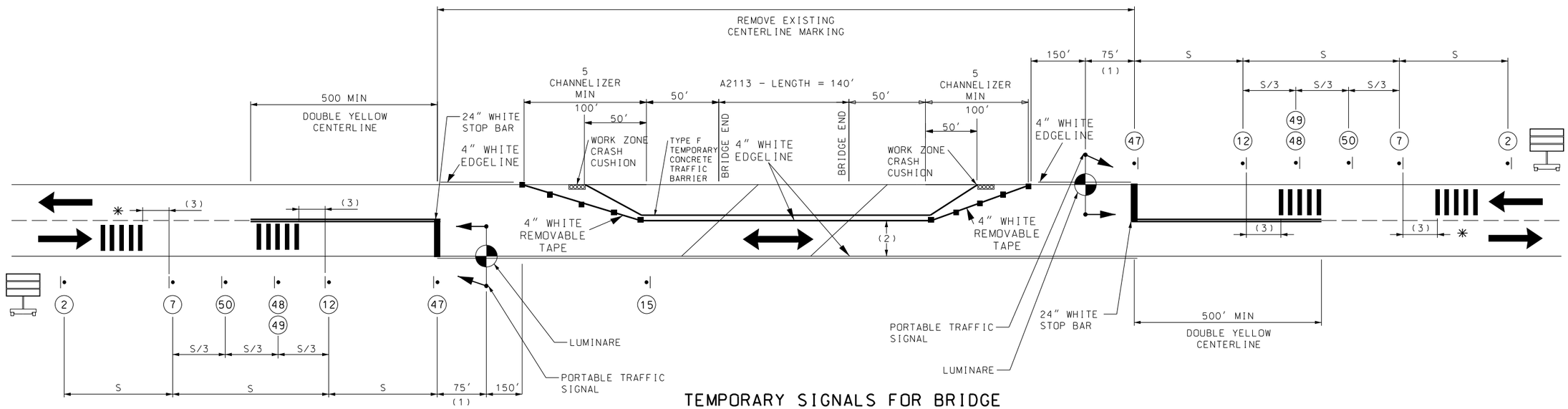
DATE	DESCRIPTION

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.

olsson
550 ST. LOUIS STREET
SPRINGFIELD, MO 65806
PHONE: 417.890.8802
CERTIFICATE OF AUTHORITY NO. 001592

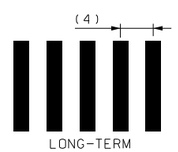
SPEED	SIGN SPACING (FT)	
PERMANENT POSTED (MPH)	UNDIVIDED (S)	DIVIDED (S)
0-35	200	-
40-45	350	-
50-55	500	-
60-70	1000	-



TEMPORARY SIGNALS FOR BRIDGE
BRIDGE A2113 - LM 6.724

TRAFFIC CONTROL LEGEND

- SIGN (SINGLE SIDED)
- CHANGEABLE MESSAGE BOARD
- CHANNELIZER
- PORTABLE TRAFFIC SIGNAL AND LUMINARE
- TEMPORARY LONG-TERM RUMBLE STRIPS
- WORK ZONE CRASH CUSHION (NARROW)
- ADVANCE WARNING RAIL SYSTEM



LONG-TERM
SPACING EXAMPLE

NOTES:

(1) 75' RECOMMENDED SPACING. SPACING MAY BE BETWEEN 40' AND 150'.

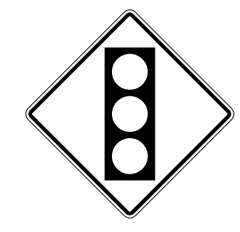
(2) DRIVING LANE SHALL BE AT LEAST 10' IN WIDTH.

- RELOCATE PORTABLE TRAFFIC SIGNALS AS REQUIRED AT NO DIRECT PAY.

- EXISTING CONFLICTING PAVEMENT MARKINGS AND RAISED PAVEMENT MARKER REFLECTORS BETWEEN THE ACTIVITY AREA AND THE STOP LINE SHALL BE REMOVED. AFTER THE TEMPORARY TRAFFIC CONTROL SIGNAL IS REMOVED, THE STOP LINES AND OTHER TEMPORARY PAVEMENT MARKINGS SHALL BE REMOVED AND THE PERMANENT PAVEMENT MARKINGS RESTORED.

- REFER TO STANDARD PLAN SHEETS 616.20 FOR ADDITIONAL TEMPORARY TRAFFIC CONTROL.

TEMP. LONG-TERM RUMBLE STRIPS		
SPEED MPH	DISTANCE (3)	SPACING (4)
0-45 (OPTIONAL)	120 FT	10-12 FT
50-55	160 FT	10-12 FT
60-70	200 FT	10-12 FT
* SECOND SET OF TEMPORARY RUMBLES OPTIONAL		



DRAWING NOT TO SCALE

TRAFFIC CONTROL
2 OF 2

REID BRENNEN CATT
2025.10.16 16:55:54 -05'00'
PE-2010019516
REID BRENNEN CATT-ENGINEER
MO# PE-2010019516

DATE PREPARED	10/3/2025
ROUTE 95	STATE MO
DISTRICT SE	SHEET NO. 8
COUNTY	LACLEDE & WRIGHT
JOB NO.	J9S3696
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

DATE	DESCRIPTION

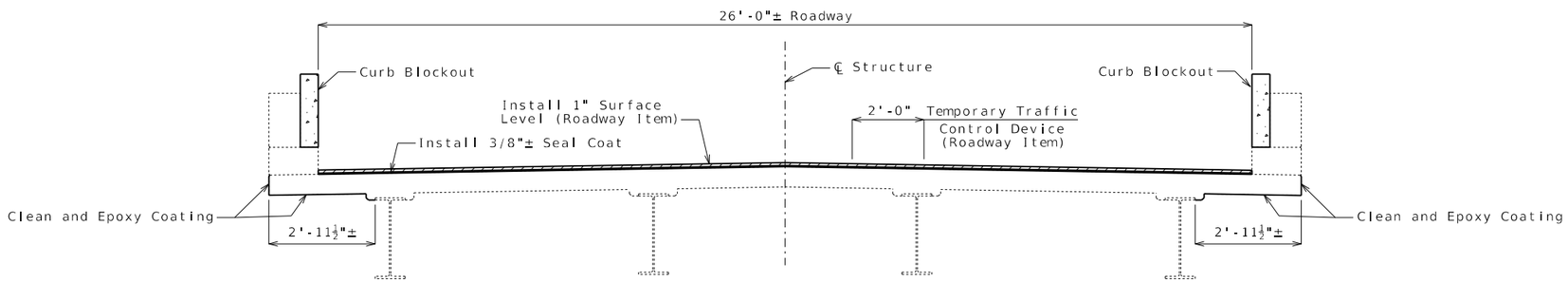
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

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

olsson
550 ST. LOUIS STREET
SPRINGFIELD, MO 65806
PHONE: 417.890.8802
CERTIFICATE OF AUTHORITY NO. 001592

SEC/SUR 3 TWP 31N RGE 13W

U.I.P. & REHABILITATE EXISTING (56'-71'-71'-56')
CONTINUOUS COMPOSITE WIDE FLANGE BEAM SPANS (SKEW: 12° L.A.)



SECTION THRU EXISTING SLAB

General Notes:

Design Specifications:

2002 AASHTO LFD (17th ED.) Standard Specifications

Design Loading:

H15-44 (Existing)

Design Unit Stresses:

Class B-1 Concrete (Curb Blockout) f'c = 4,000 psi

Reinforcing Steel (ASTM A615 Grade 60) fy = 60,000 psi

Reinforcing Steel:

Minimum clearance to reinforcing steel shall be 1 1/2", unless otherwise noted.

Miscellaneous:

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

All concrete repairs shall be in accordance with Sec 704, unless otherwise noted.

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

Contractor shall verify all dimensions in field before finalizing the shop drawings.

Traffic Handling:

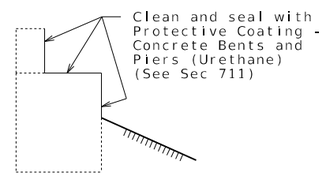
Traffic to be maintained on structure during construction. See roadway plans for traffic control.

Concrete Protective Coating:

Protective coating for concrete bents and piers (Urethane) shall be applied as shown on the bridge plans and in accordance with Sec 711.

Estimated Quantities

Item		Total
Emulsified Asphalt, Seal Coat	gallon	298
Seal Coat Aggregate, Grade B1	sq. yard	744
Curb Blockout	linear foot	509
Cleaning and Epoxy Coating	sq. foot	1900
Protective Coating - Concrete Bents and Piers (Urethane)	lump sum	1



TYPICAL SECTION THRU
END BENTS NO. 1 & 5 SHOWING
PROTECTIVE COATING

REPAIRS TO BRIDGE: ROUTE 95
OVER BEAVER CREEK

ROUTE 95 FROM ROUTE AF TO ROUTE KK
ABOUT 0.8 MILE NORTHEAST OF ROUTE AF
BEGINNING STATION 251+72.00± (MATCH EXISTING)

STATE OF MISSOURI
TED S. KOESTER
NUMBER PE-2013000591
PROFESSIONAL ENGINEER
09/30/2025 11:16:07 AM
TED S. KOESTER - CIVIL
MO-PE-2013000591

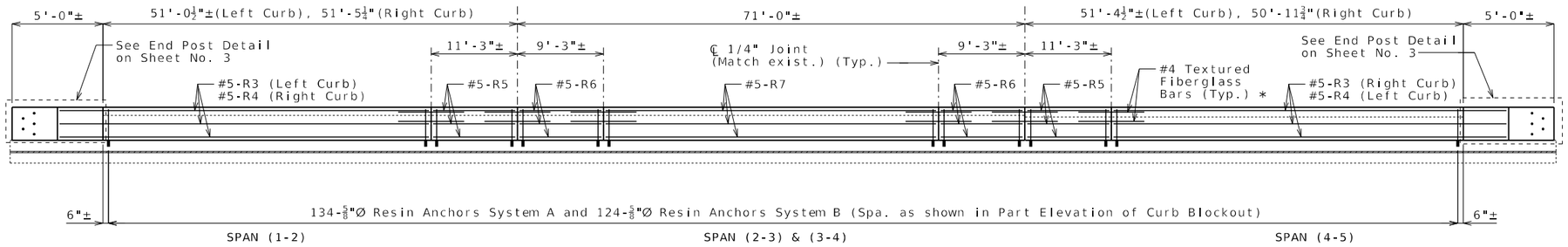
DATE PREPARED 9/30/2025
ROUTE 95 STATE MO
DISTRICT BR SHEET NO. 1
COUNTY WRIGHT
JOB NO. J9S3696
CONTRACT ID.
PROJECT NO.
BRIDGE NO. A21131

DATE	DESCRIPTION

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

Detailed Aug. 2025
Checked Aug. 2025

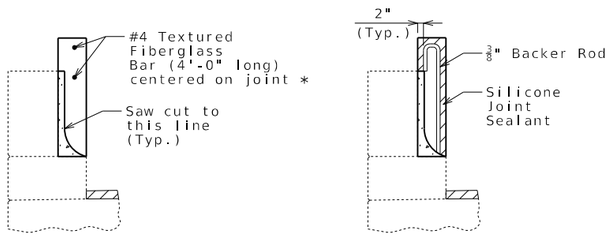
Note: This drawing is not to scale. Follow dimensions.



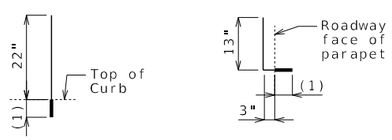
ELEVATION OF LEFT CURB BLOCKOUT

(Right curb blockout similar)

Longitudinal dimensions are along grade and are taken at top outside edge of parapet.

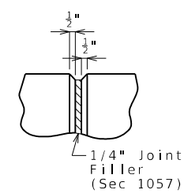


SECTION THRU SAW CUT JOINT



RESIN ANCHOR SYSTEM A
(332 req'd)
(Install in curb)

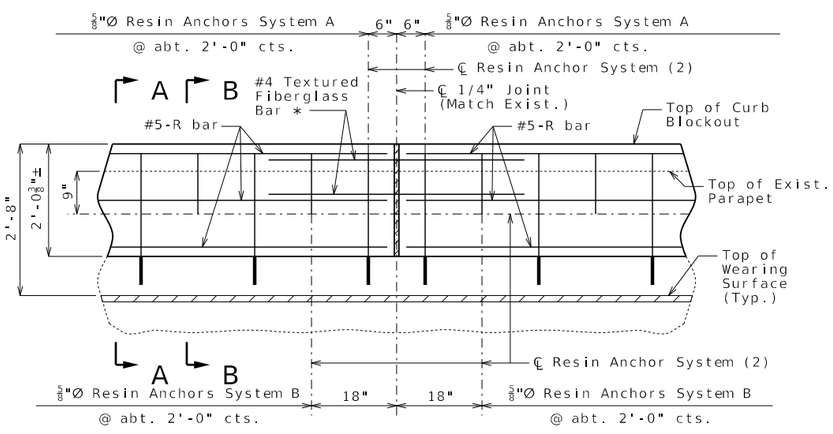
RESIN ANCHOR SYSTEM B
(248 req'd)
(Install in parapet)



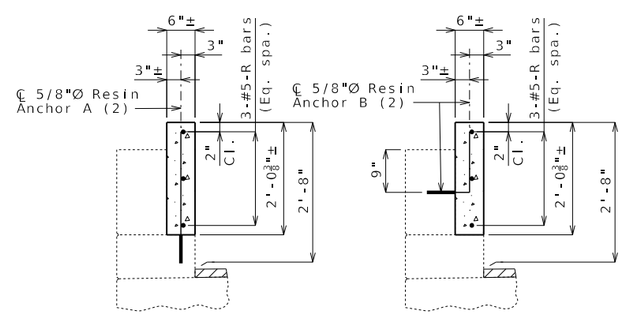
PART ELEVATION AT FORMED JOINT

(1) Use manufacturer's embedment length (5" minimum embedment).

DETAILS OF RESIN ANCHORS



PART ELEVATION OF CURB BLOCKOUT



SECTION A-A

SECTION B-B

CURB BLOCKOUT

Notes:

* Slip-formed option only.

Conventional forming or slip forming may be used. Saw cut joints may be used with conventional forming.

Bridge rail not shown for clarity.

Concrete in curb blockout shall be Class B-1.

Measurement of curb blockout is to the nearest linear foot, measured at the top outside edge of parapet. (Match existing curb and parapet)

All exposed edges of curb blockout shall have either a 1/2-inch radius or 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.

Cost of any concrete curb or parapet repair will be considered completely covered by the contract unit price for Curb Blockout.

All curb blockout reinforcement shall be epoxy coated.

(2) Shift resin anchors where necessary to clear existing anchor bolts for bridge rail, miss curb outlets (if present) and clear existing reinforcement.

Use a minimum lap of 3'-1" for #5 horizontal curb blockout bars.

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 retroflective sheeting on both sides. Concrete traffic barrier delineators will be considered completely covered by the contract unit price for Curb Blockout.

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 #5 Grade 60 reinforcing bar shall be substituted for the 5/8"Ø threaded rod.

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.

Asbestos (Friability Category II NF) has been detected in the insulation compound between the top of the existing concrete parapet and the base of the existing handrail posts. The contractor has the option to remove the handrail and posts or leave in place. Should the contractor elect to remove the handrail and posts, the contractor will be required to use a licensed abatement contractor during the removal. No direct payment will be made for removal of the handrail and posts, or for asbestos abatement. The described work will be considered completely covered by the contract unit price for other items in the contract.

Detailed Aug. 2025
Checked Aug. 2025

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

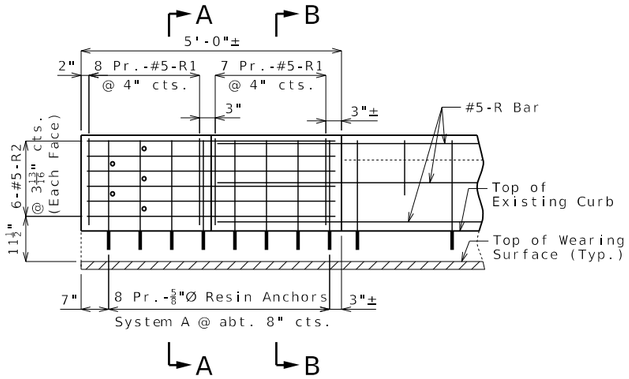
STATE OF MISSOURI
TED S. KOESTER
NUMBER PE-2013000591
PROFESSIONAL ENGINEER
09/30/2025 11:16:18 AM
TED S. KOESTER - CIVIL
MO-PE-2013000591

DATE PREPARED	9/30/2025
ROUTE	95
STATE	MO
DISTRICT	BR
SHEET NO.	2
COUNTY	WRIGHT
JOB NO.	J9S3696
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	A21131

DESCRIPTION

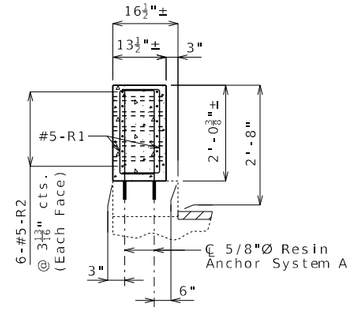
DATE

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

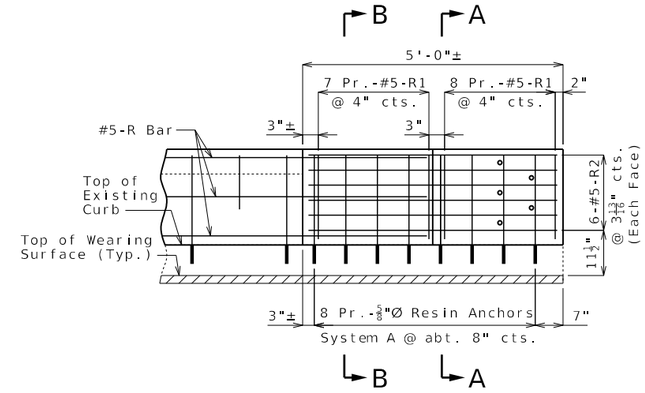


ELEVATION SHOWING REINFORCEMENT

(Right End Post at End Bent No. 5 similar)

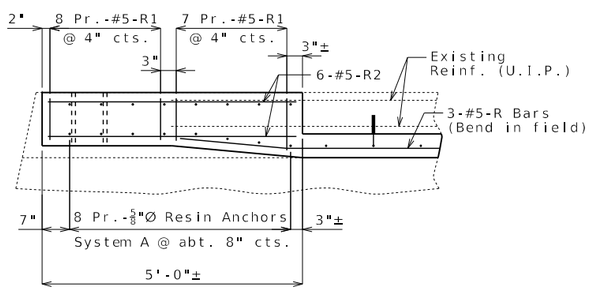


SECTION A-A



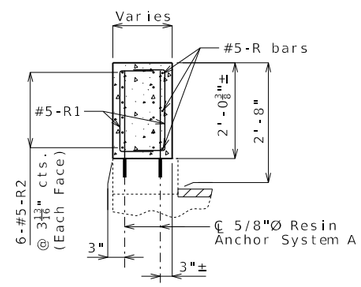
ELEVATION SHOWING REINFORCEMENT

(Right End Post at End Bent No. 1 similar)

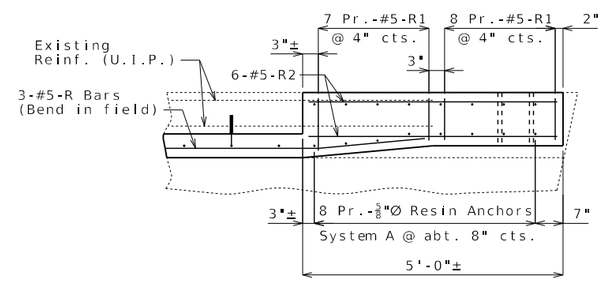


PLAN SHOWING REINFORCEMENT

LEFT END POST AT END BENT NO. 1

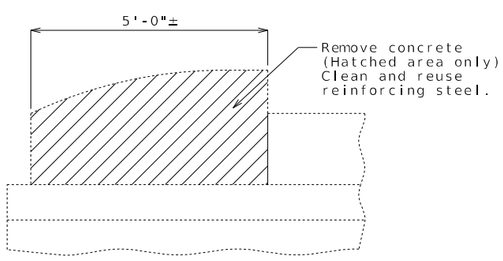


SECTION B-B



PLAN SHOWING REINFORCEMENT

LEFT END POST AT END BENT NO. 5



PART ELEVATION SHOWING END POST
CONCRETE REMOVAL

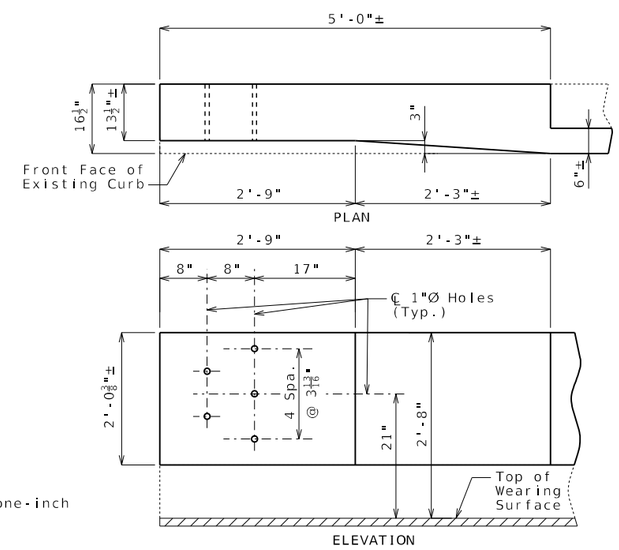
Cost of removing existing end posts will be considered completely covered by the contract unit price for Curb Blockout.

Notes:

Work this sheet with Sheet No. 2.

For details of resin anchors, see Sheet No. 2.

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



DETAILS OF END POST AND
GUARD RAIL ATTACHMENT

CURB BLOCKOUT AT END BENTS

Detailed Aug. 2025
Checked Aug. 2025

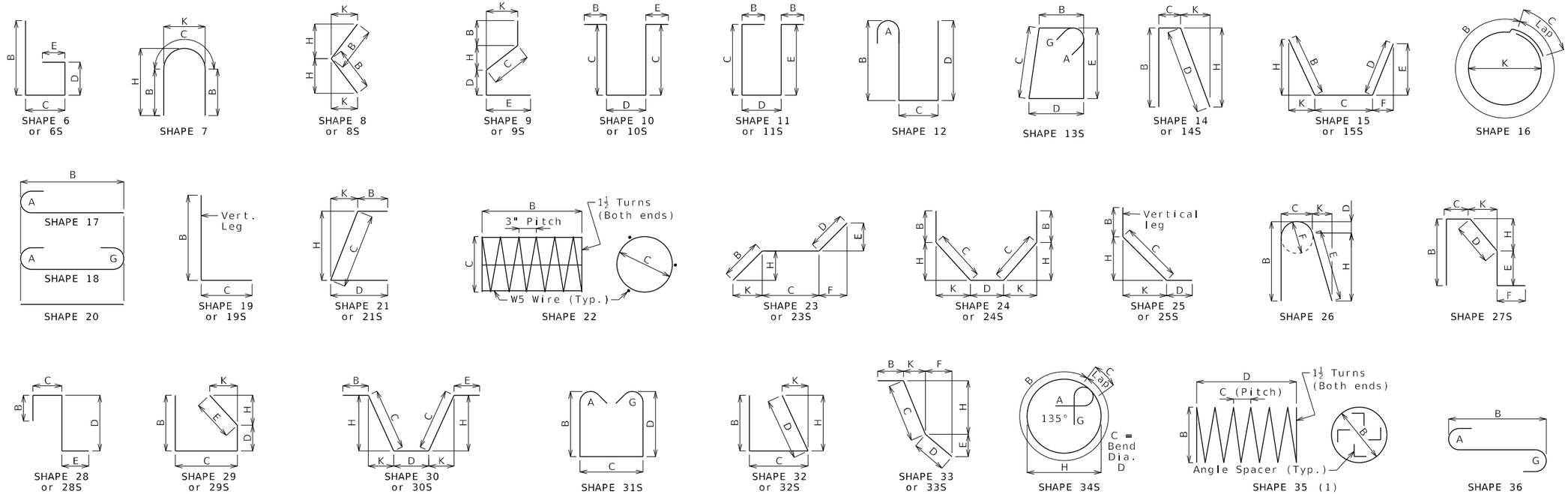
Note: This drawing is not to scale. Follow dimensions.

STATE OF MISSOURI
TED S. KOESTER
NUMBER
PE-2013000591
PROFESSIONAL ENGINEER
09/30/2025 11:16:28 AM
TED S. KOESTER - CIVIL
MO-PE-2013000591

DATE PREPARED	
9/30/2025	
ROUTE 95	STATE MO
DISTRICT BR	SHEET NO. 3
COUNTY WRIGHT	
JOB NO. J9S3696	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO. A21131	

DATE	DESCRIPTION

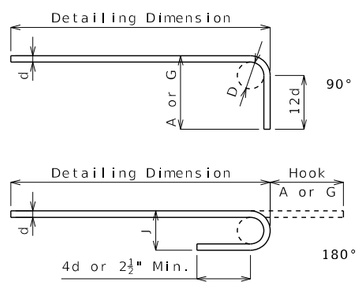
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)



Finished Bend Diameters D and Hook Dimensions

Standard Pin Bend Shapes

Size	Case	D	A or G 90°	A or G 180°	J 180°
#4	1	3"	8"	6"	4"
#5	1	3¾"	10"	7"	5"
#6	1	4½"	12"	8¼"	6"
#7	2	5¼"	14"	9¾"	7"
	3	7"	15"	11½"	8¾"
#8	2	6"	16"	11"	8"
	3	8"	17"	13¼"	10"
#9	1	9½"	19½"	15½"	11¾"
#10	1	10¾"	22"	17½"	13¼"
#11	1	12"	24½"	19½"	14⅞"
#14	1	18¼"	31¼"	27½"	21⅝"
#18	1	24"	41½"	36¼"	28½"

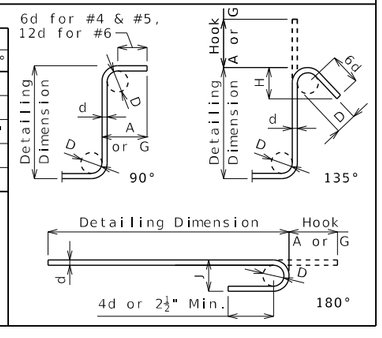


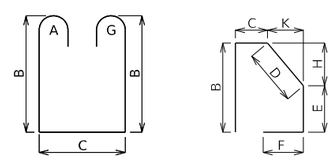
Stirrup Pin Bend Shapes (S)

Size	Case	D	A or G 90°	A or G 135°	A or G 180°	H 135°	J 180°
#4	2	2"	4½"	4½"	5"	2⅝"	3"
	3	3"	5"	5¼"	6"	3"	4"
#5	2	2½"	5¾"	5¾"	5¾"	3⅝"	3¾"
	3	3¾"	6¼"	6½"	7"	3⅞"	5"
#6	1	4½"	12"	7¾"	8¼"	4⅜"	6"

Applicable for all grades of steel.

Case 1 applies to all reinforcement. Case 2 applies to all reinforcement except for galvanized bars. Case 3 applies to galvanized bars only.





BENDING DIAGRAMS

All dimensions are out to out.

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 Plain	Substructure Epoxy	Superstructure Slab Plain	Superstructure Slab Epoxy	Superstructure Barrier	Superstructure Slip Form	Entire Bridge Plain	Entire Bridge Epoxy
By Size	W5	0	0	0	0	0	0	0	0
	4	0	0	0	0	0	0	0	0
	5	0	0	0	0	2,164	0	0	2,164
	6	0	0	0	0	0	0	0	0
	7	0	0	0	0	0	0	0	0
	8	0	0	0	0	0	0	0	0
	9	0	0	0	0	0	0	0	0
	10	0	0	0	0	0	0	0	0
	11	0	0	0	0	0	0	0	0
	14	0	0	0	0	0	0	0	0
	18	0	0	0	0	0	0	0	0
By Type		0	0	0	0	2,164	0	0	2,164

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

BENDING DIAGRAMS AND REINFORCING STEEL TOTALS

Detailed Aug. 2025
Checked Aug. 2025

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

STATE OF MISSOURI
TED S. KOESTER
NUMBER PE-2013000591
PROFESSIONAL ENGINEER
09:30:2025 11:16:39 AM
TED S. KOESTER - CIVIL
MO-PE-2013000591

DATE PREPARED	9/30/2025
ROUTE 95	STATE MO
DISTRICT BR	SHEET NO. 4
COUNTY	WRIGHT
JOB NO.	J9S3696
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	A21131

DATE	DESCRIPTION

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

Bill of Reinforcing Steel

No. Req.	Size/ Mark	Location	Codes C	Codes SH	Codes V	Dimensions B ft in.	C ft in.	D ft in.	E ft in.	F ft in.	H ft in.	K ft in.	Nom. Length ft in.	Actual Length ft in.	Weight lb
		BLOCKOUT													
120	5 R1	BLOCKOUT	E	10S			9.50	21.00					3 4	3 1	386
48	5 R2	BLOCKOUT	E	20		4 9.00							4 9	4 9	238
6	5 R3	BLOCKOUT	E	20		41 8.00							41 8	41 8	261
6	5 R4	BLOCKOUT	E	20		42 1.00							42 1	42 1	263
12	5 R5	BLOCKOUT	E	20		11 0.00							11 0	11 0	138
24	5 R6	BLOCKOUT	E	20		9 0.00							9 0	9 0	225
12	5 R7	BLOCKOUT	E	20		52 3.00							52 3	52 3	653

Bill of Reinforcing Steel

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

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

For bending diagrams and steel reinforcing totals, see Sheet No. 4.

Detailed Aug. 2025
Checked Aug. 2025

All bars shall be Grade 60.

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

SH = Required shape, see bending diagrams.

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

BILL OF REINFORCING STEEL

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

STATE OF MISSOURI
TED S. KOESTER
NUMBER PE-2013000591
PROFESSIONAL ENGINEER
09/30/2025 11:16:51 AM
TED S. KOESTER - CIVIL
MO-PE-2013000591

DATE PREPARED 9/30/2025

ROUTE	STATE
95	MO
DISTRICT	SHEET NO.
BR	5

COUNTY WRIGHT

JOB NO. J9S3696

CONTRACT ID.

PROJECT NO.

BRIDGE NO. A21131

DESCRIPTION	DATE

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