

DESIGN DESIGNATION

A.A.D.T. - 2022 = 18,000
A.A.D.T. - 2032 = 21,000
D.H.V. = 1900
T = 10%
V = 65 M.P.H.
D = 50%

FUNCTIONAL CLASSIFICATION- PRINCIPAL ARTERIAL

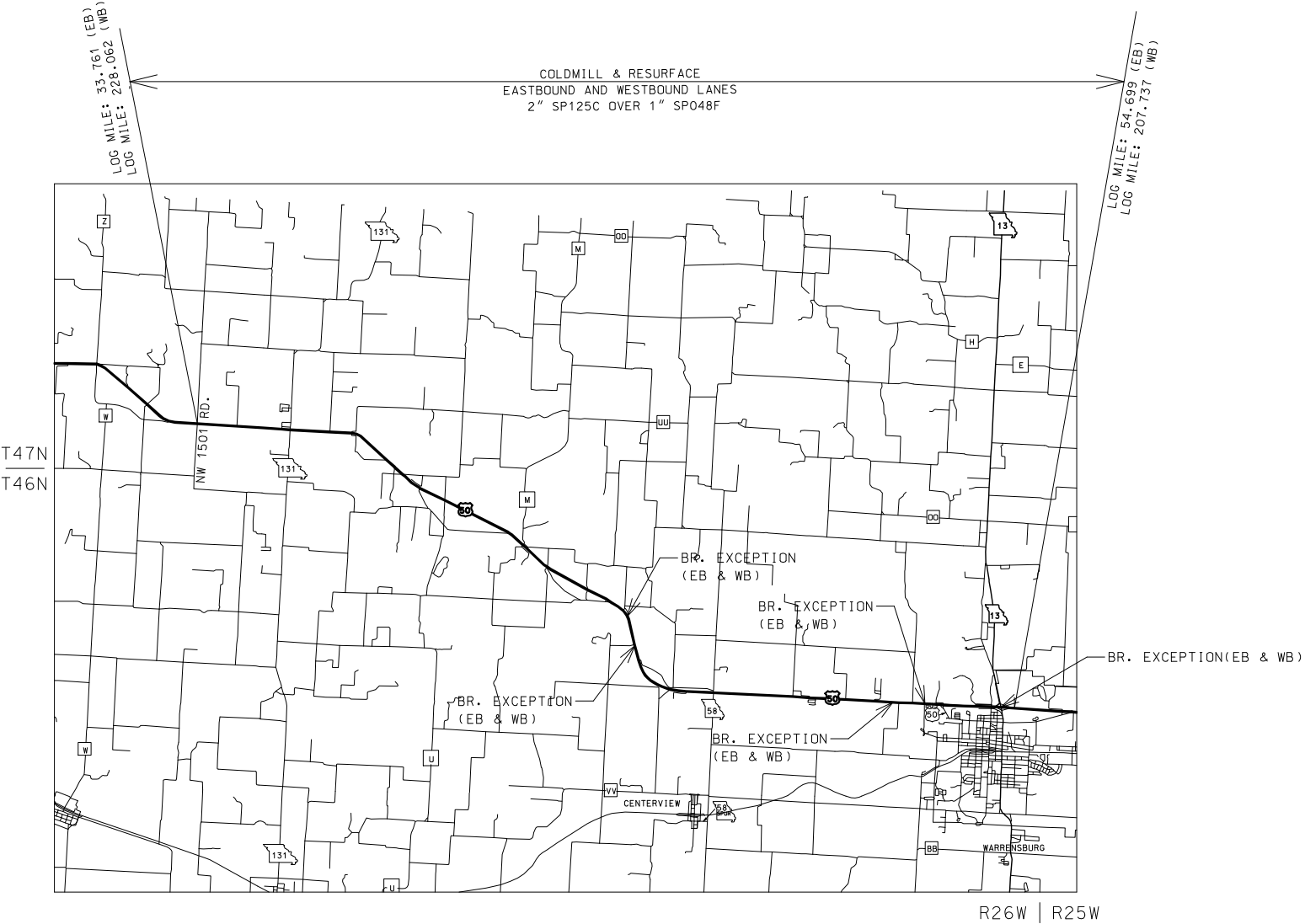
NO RIGHT OF WAY TO BE ACQUIRED

CONVENTIONAL SYMBOLS
(USED IN PLANS)

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

NOTE: DASHED OR OPEN SYMBOLS INDICATE EXISTING FEATURES

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



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

NOT TO SCALE

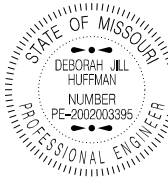
INDEX OF SHEETS

DESCRIPTION	SHEET NUMBER
TITLE SHEET -----	1
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QUANTITIES (QU) (5 SHEETS)-----	3
SPECIAL SHEETS (SS)-----	4-13
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BRIDGE DRAWINGS	
BR. B02701 (BR. 2 SHEETS)-----	1-2

LENGTH OF PROJECT

BEGINNING OF PROJECT	LOG MILE: 33.761 (EB)
END OF PROJECT	LOG MILE: 54.699 (EB)
BEGINNING OF PROJECT	LOG MILE: 207.737 (WB)
END OF PROJECT	LOG MILE: 228.062 (WB)
APPARENT LENGTH(EB)	110552.64 FEET
APPARENT LENGTH(WB)	107316.00 FEET
EQUATIONS AND EXCEPTIONS:	
BRIDGES(EB): A1175, A1176, A4891& G0955 & A7461	1075.00 FEET
BRIDGES(WB): G0952, B0270, A1042 & A1043	1065.00 FEET
TOTAL CORRECTION (EB)	1075.00 FEET
TOTAL CORRECTIONS (WB)	1065.00 FEET
NET LENGTH OF PROJECT(EB)	109477.64 FEET
NET LENGTH OF PROJECT(WB)	106251.00 FEET
STATE LENGTH(EB)	20.734 MILES
STATE LENGTH(WB)	20.123 MILES

FOR INFORMATION ONLY
ESTIMATED DISTURBED ACRES 0.000 ACRES



DATE PREPARED
7/27/2021
ROUTE 50 STATE MO
DISTRICT KC SHEET NO. 1
COUNTY JOHNSON
JOB NO. J3P3064
CONTRACT ID.

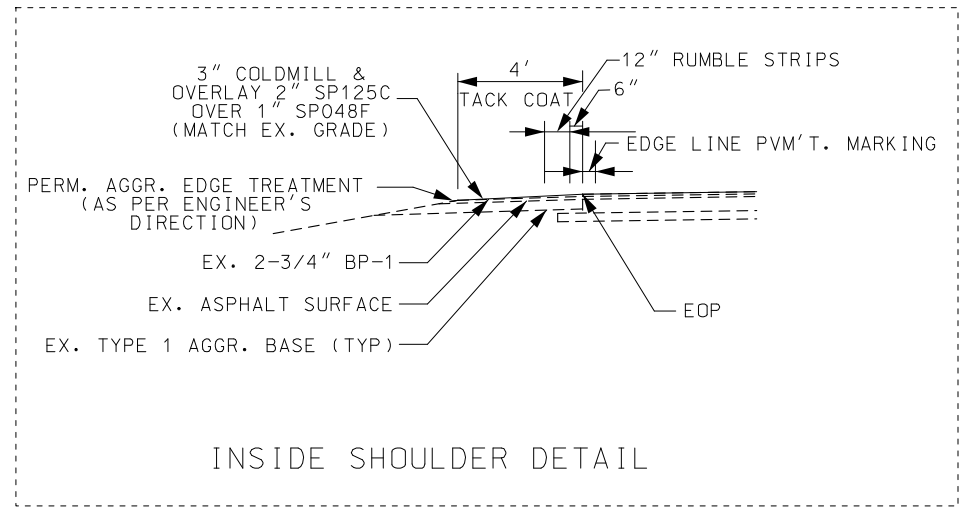
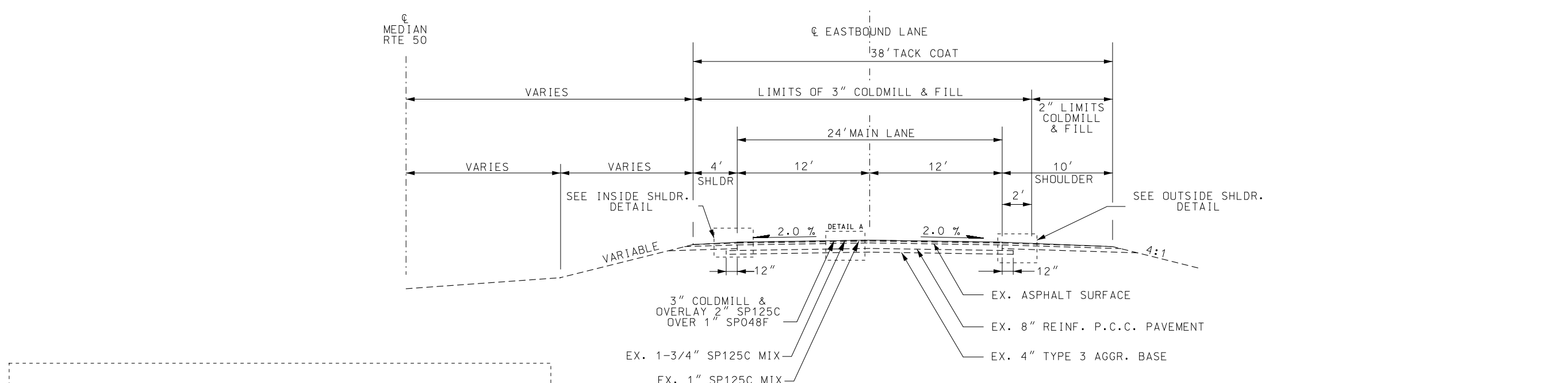
PROJECT NO.
BRIDGE NO.

DESCRIPTION	DATE

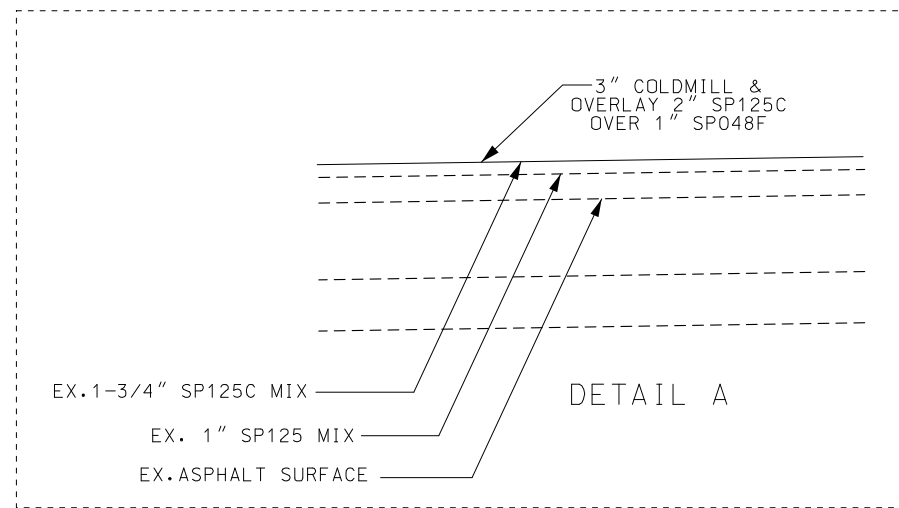
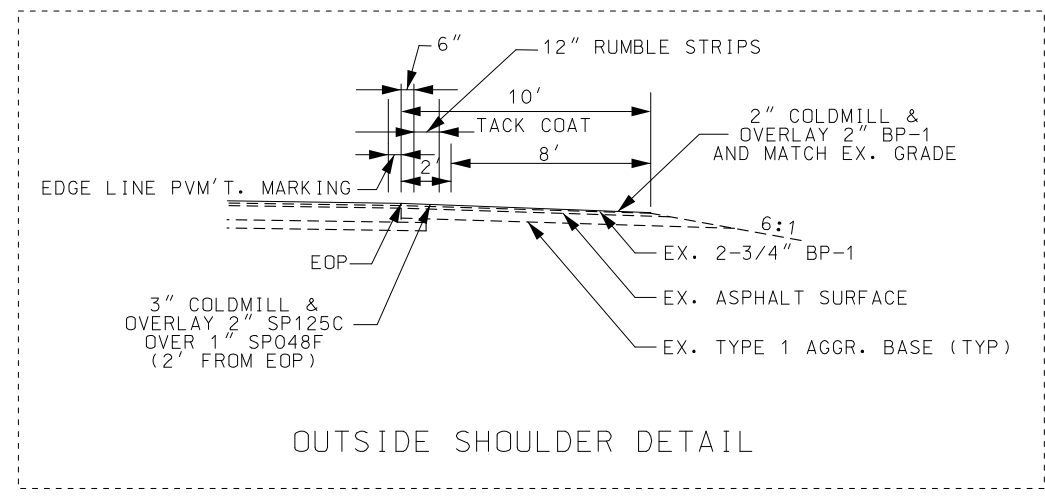
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITAL
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.



ROUTE 50 EBL
LOG MILE: 33.761 - 54.699
ROUTE 50 WBL
LOG MILE: 207.737 - 228.062
(ROUTE 50 WBL MIRRORS EBL)



FOR INFORMATION PURPOSES ONLY:

ESTIMATE FACTORS	
SP125C w/ PG70-22	2.003 TON/ CY
SPO48F w/ PG70-22	1.952 TON/ CY
BP-1 w/ PG64-22	1.993 TON/ CY
TACK COAT	0.05 GAL/SQYD (NEW ASPH. SURFACES) & 0.10 GAL/ SQYD (COLMILLED ASPH. OR CONC. SURFACES)
TYPE 5 AGGREGATE	1.88 TON/ CY

TYPICAL SECTIONS
(ROUTE 50)
SHEET 1 OF 3

STATE OF MISSOURI

DEBORAH HILL HUFFMAN

NUMBER PE-2002003395

PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED

7/22/2021

ROUTE

50

STATE

MO

DISTRICT

KC

SHEET NO.

2

COUNTY

JOHNSON

JOB NO.

J3P3064

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION

DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

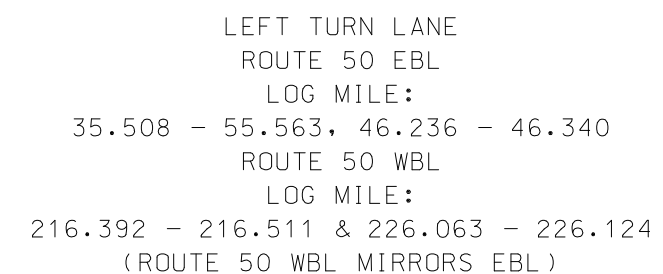
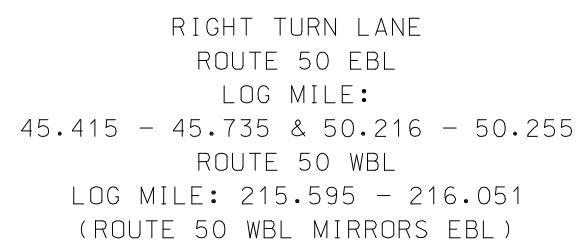
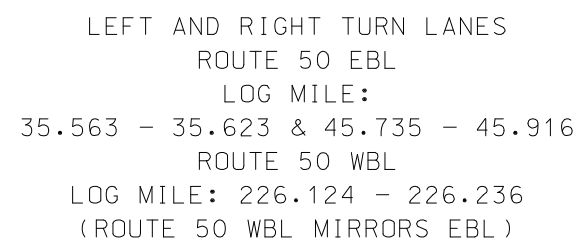
MoDOT

105 WEST CAPITOL

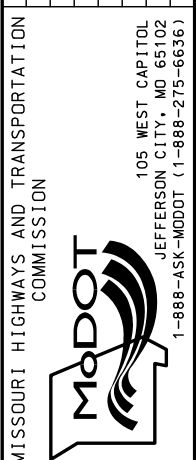
JEFFERSON CITY, MO 65102

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

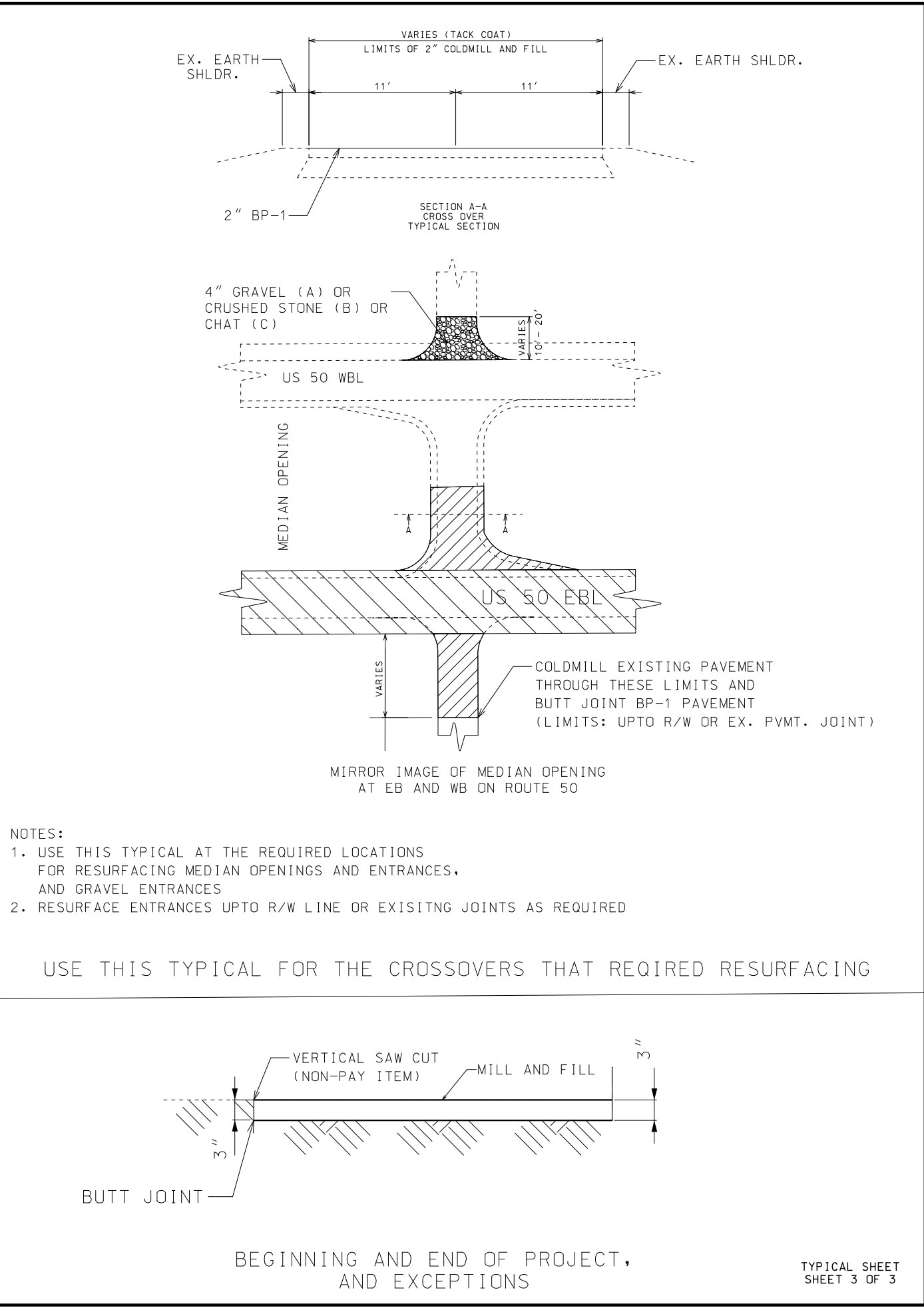
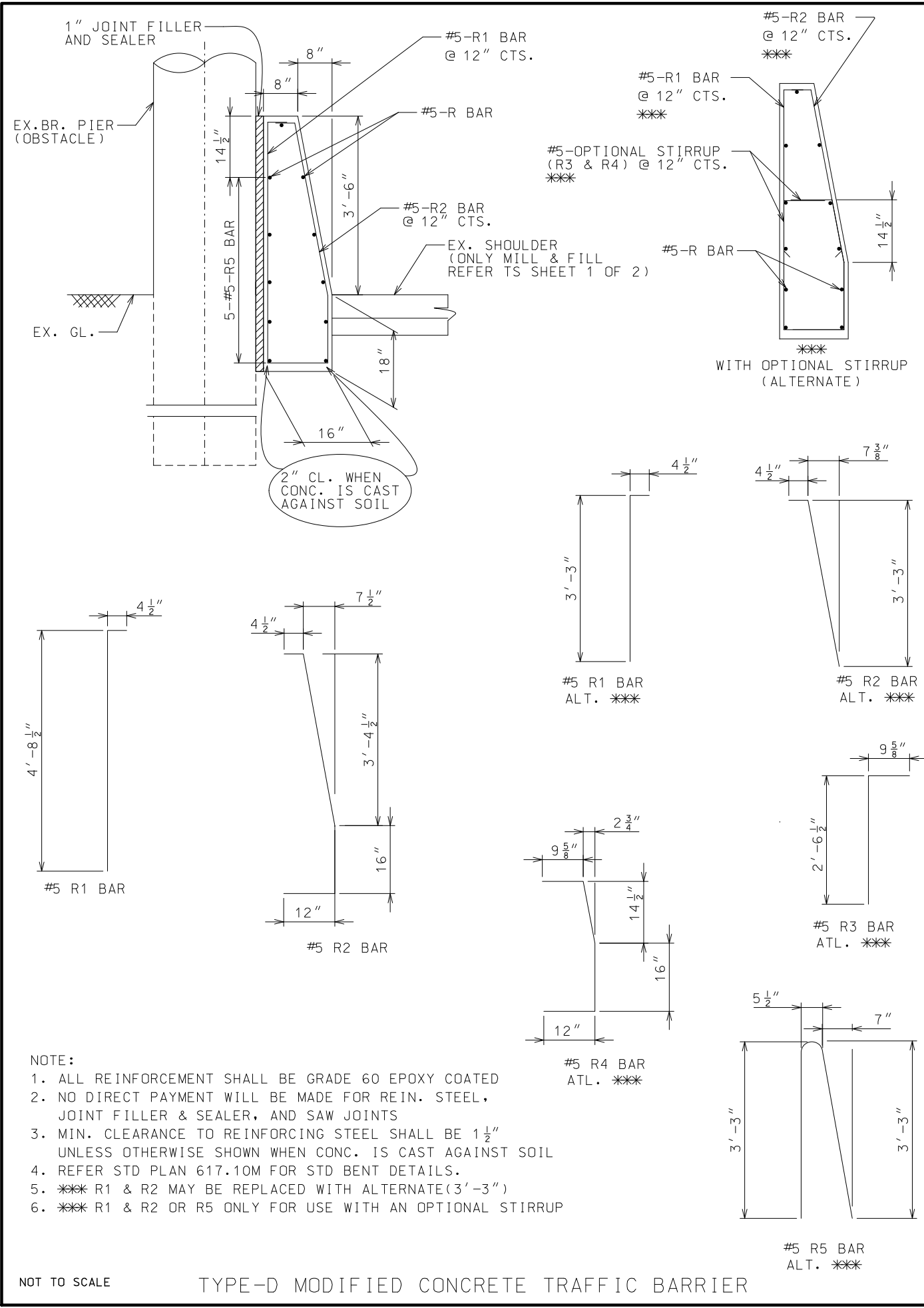
IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.



TYPICAL SECTIONS
(ROUTE 50)
SHEET 2 OF 3



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



NOTE:

1. ALL REINFORCEMENT SHALL BE GRADE 60 EPOXY COATED
2. NO DIRECT PAYMENT WILL BE MADE FOR REIN. STEEL, JOINT FILLER & SEALER, AND SAW JOINTS
3. MIN. CLEARANCE TO REINFORCING STEEL SHALL BE 1 1/2" UNLESS OTHERWISE SHOWN WHEN CONC. IS CAST AGAINST SOIL
4. REFER STD PLAN 617.10M FOR STD BENT DETAILS.
5. *** R1 & R2 MAY BE REPLACED WITH ALTERNATE(3'-3")
6. *** R1 & R2 OR R5 ONLY FOR USE WITH AN OPTIONAL STIRRUP

NOT TO SCALE

TYPE-D MODIFIED CONCRETE TRAFFIC BARRIER

TYPICAL SHEET
SHEET 3 OF 3

STATE OF MISSOURI
DEBORAH JILL HUFFMAN
NUMBER
PE-2002003395
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN
SIGNED, SEALED AND DATED
ELECTRONICALLY.

DATE PREPARED
7/22/2021

ROUTE
50

STATE
MO

DISTRICT
KC

SHEET NO.
2

COUNTY
JOHNSON

JOB NO.
J3P3064

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.

COLDMILL AND FILL – ROUTE 50 EB												
BEG. LOG MILE	END LOG MILE	LENGTH LF	MAINLINE WIDTH LF	LT. SHLDR. WIDTH LF	RT. SHLDR. WIDTH LF	3" THICK MAINLINE COLDMILL SY	2" THICK SHLDR. COLDMILL SY	SP048F MAINLINE TONS	2" SP125C MAINLINE TONS	2" BP-1 SHLDR. TONS	TACK COAT GAL.	REMARKS
33.761	35.508	9224.16	24		10	30747.20	8199.25	1667.18	3421.48	907.84	5432.01	
35.508	35.563	290.40	36		4	1355.20	258.13	73.48	150.80	28.58	229.09	3 LANES (LT. TURN TO RTE. 131)
35.563	35.623	616.80	48		2	1900.80		103.07	211.52		285.12	4 LANES (LT. RT. TURN TO RTE. 131)
35.623	41.460	30819.36	24		10	102731.20	27394.99	5570.31	11431.70	3033.23	18149.18	
41.460	41.759	1578.72	24		4	5262.40	1403.31	285.34	585.59	155.38	929.69	
41.759	43.303	8152.32	24		10	27174.40	7246.51	1473.46	3023.91	802.35	4800.81	
43.303	43.358	290.40										BRIDGE A1175-EXCEPTION
43.358	43.885	2783	24		10	9275.20	2473.39	502.92	1032.12	273.86	1638.62	
43.885	43.905	106										BRIDGE A1176-EXCEPTION
43.905	45.415	7973	24		10	26576.00	7086.93	1441.01	2957.32	784.68	4695.09	
45.415	45.735	1690	36		10	7884.80	1501.87	427.53	877.40	166.29	1332.91	3 LANES – RT. TURN
45.735	45.916	956	48		6	5734.08	424.75	310.91	638.08	94.06	902.59	4 LANES, INCL. LT. LANE EXIT & RT. LANE ENT.
45.916	46.120	1077	36		6	5026.56	478.72	272.55	559.34	106.01	801.86	3 LANES – ENT. LANE
46.120	46.236	612	24		10	2041.60	544.43	110.70	227.18	60.28	360.68	
46.236	46.340	549	36		6	2684.59	488.11	145.56	298.73	54.04	451.50	3 LANES WITH LT. EXIT LANE
46.340	49.302	15639	24		10	52131.20	13901.65	2826.67	5801.04	1539.22	9209.89	
49.302	49.339	1075										BRIDGE A4891-EXCEPTION
49.339	49.948	3216	24		10	10718.40	2858.24	581.18	1192.72	316.47	1893.58	
49.948	49.999	269										BRIDGE G0955-EXCEPTION
49.999	50.216	1146	24		10	3819.20	1018.45	207.09	424.99	112.77	674.73	
50.216	50.255	206	36		4	960.96	183.04	52.11	106.93	20.27	162.45	3 LANES FOR RT. TURN
50.255		115	18		10	281.11		16.63	34.13		28.11	RT. EXIT
50.315		50	36			200.00		11.45	23.49		20.00	S. ENTRANCE – RTE. 50 BUS.
50.255	51.593	7065	24		10	23548.80	6279.68	1276.87	2620.46	695.30	4160.29	
51.253		330	18		10	660.00	513.33		97.92	32.48	117.33	EXIT RAMP TO N. MAGUIRE ST.
51.593		330	18		10	660.00	513.33		97.92	32.48	117.33	ENT. RAMP FROM N. MAGUIRE ST.
51.593	51.733	739	36		10	3449.60	657.07	187.04	383.86	72.75	583.15	3 LANES AFTER ENT. RAMP FROM MAGUIRE ST.
51.733	51.953	1162	24		10	3872.00	1032.53	209.95	430.87	114.32	684.05	
51.953	52.093	739	36		10	3449.60	657.07	187.04	383.86	72.75	583.15	3 LANES BEFORE EXIT RAMP TO PCA RD.
52.093		250	18		10	500.00	388.89		74.19	24.60	88.89	EXIT RAMP TO PCA RD.
52.093	53.232	6014	24		10	20046.40	5345.71	1086.96	2230.72	591.89	3541.53	
52.612		50	18		10	100.00	77.78		14.84	4.92	17.78	ENT. RAMP FROM PCA RD.
53.232	53.277	238	36		10	1108.80	211.20	60.12	123.38	23.38	187.44	ACCELERATED LANE
53.277	53.452	924	36		6	4312.00	616.00	233.81	479.83	45.47	708.40	ACCELERATED LANE
53.452	53.658	1088	24		6	3625.60	966.83	196.59	403.45	53.52	640.52	
53.658	54.137	2529			8		3372.16			373.37	505.82	MILL & FILL SHLDR. BOTH SIDES – CONC. PVM'T. EXCEPTION
54.137	54.178	216										BRIDGE A7461-EXCEPTION
54.178	54.699	2751			8		3667.84			406.11	550.18	MILL & FILL SHLDR. BOTH SIDES
SUB-TOTAL-1						361837.70	99761.17	19517.53	40339.79	10998.69	64483.72	

COLDMILL AND FILL – ROUTE 50 WB												
BEG. LOG MILE	END LOG MILE	LENGTH LF	MAINLINE WIDTH LF	LT. SHLDR. WIDTH LF	RT. SHLDR. WIDTH LF	3" THICK MAINLINE COLDMILL SY	2" THICK SHLDR. COLDMILL SY	SP048F MAINLINE TONS	SP125C MAINLINE TONS	2" BP-1 SHLDR. TONS	TACK COAT GAL.	REMARKS
207.737	207.764	142.56		4			221.76			24.55	33.26	MILL & FILL SHLDR. BOTH SIDES – CONC. PVM'T. EXCEPTION
207.764	207.805	216.48										BRIDGE –G0952 EXCEPTION
207.805	207.833	147.84		4	10		229.97			25.46	34.50	MILL & FILL SHLDR. BOTH SIDES – CONC. PVM'T. EXCEPTION
207.833	208.312	5697.12	24	4	10	18990.40	5064.11	1029.70	2113.21	560.71	3354.97	
208.312	209.051	733.92	36	4	10	3424.96	652.37	185.71	381.12	72.23	578.98	
209.051		310.00	18	4	10	826.67	275.56	44.82	91.99	30.51	151.56	3 LANES TO EXIT RAMP – PRIDE AVE.
209.051	209.831	4118.40	24	4	10	13728.00	3660.80	744.36	1527.62	405.33	2425.28	EXIT RAMP TO PRIDE AVE.
209.831		300.00	18	4	10	800.00	266.67	43.38	89.02	29.53	146.67	ENT. RAMP FROM PCA RD.
209.831	209.972	744.48	36	4	10	3474.24	661.76	188.38	386.61	73.27	587.31	ENT. RAMP – PCA RD.
209.972	210.291	1684.32	24	4	10	5614.40	1497.17	304.43	624.76	165.77	991.88	3 LANES – PCA AVE. ENT. RAMP
210.291	210.352	322	36	4	10	1503.04	286.29	81.50	167.25	31.70	254.09	
210.352		300.00	18	4	10	800.00	266.67	43.38	89.02	29.53	146.67	EXIT RAMP – N. MAGUIRE ST.
210.352	210.631	1473	24	4	10	4910.40	1309.44	266.25	546.42	144.98	867.50	
210.631	210.772	744	36	4	10	3474.24	661.76	188.38	386.61	73.27	587.31	
210.772	211.930	175	18	4	10	466.67	155.56	25.30	51.93	17.22	85.56	EXIT RAMP – N. MAGUIRE ST.
211.930	211.978	253				20380.80	5434.88	1105.09	2267.93	601.76	3600.61	
211.978	212.590	3231	24	4	10	10771.20	2872.32	584.04	1198.60	318.03	1902.91	BRIDGE A1043-EXCEPTION
212.590	212.615	132										BRIDGE A1042-EXCEPTION
212.615	215.595	15734	24	4	10	52448.00	13986.13	2843.85	5836.30	1548.58	9265.81	
215.595	216.051	2408	36	4	6	11235.84	2140.16	609.23	1250.30	236.96	1899.39	3 LANES WITH RT. EXIT LANE
216.051	216.392	1800	24	4	10	6001.60	1600.43	325.42	667.84	177.20	1060.28	
216.392	216.511	628	36	4	10	2932.16	558.51	158.99	326.28	61.84	495.67	3 LANES WITH LT. EXIT LANE
216.511	218.000	7862	24	4	10	26206.40	6988.37	1420.97	2916.19	773.77	4629.80	
218.000	218.024	127										BRIDGE B0270-EXCEPTION
218.024	218.545	2751	24	4	10	9169.60	2445.23	497.20	1020.37	270.74	1619.96	
218.545	218.609	338										BRIDGE G0952-EXCEPTION
218.609	226.063	39357	24	4	10	131190.40	34984.11	7113.44	14598.58	3873.52	23176.97	
226.063	226.124	322	36	4	10	1503.04	286.29	81.50	167.25	31.70	254.09	3 LANES WITH LT. EXIT LANE
226.124	226.236	591	48	4	10	3548.16	525.65	192.39	394.83	58.20	584.79	4 LANES WITH RT. & LT. EXIT LANE
226.236		90	24	4	10	239.20	79.78	16.22	33.29	6.83	52.86	
226.253	228.062	9552	24	4	10	31838.40	8490.24	1726.35	3542.91	940.06	5624.78	
SUB-TOTAL-2						365537.81	95150.26	19820.27	40676.24	10535.25	64345.70	

MILL AND FILL								REMARKS
	3" THICK MAINLINE COLDMILL SY	2" THICK SHLDR. COLDMILL SY	1" SP048F MAINLINE TONS	2" SP125C MAINLINE TONS	2" BP-1 SHLDR. TONS	TACK COAT POLYMER MODIFIED GAL.	4" GRAVEL (A) OR CRUSHED STONE (B) OR CHAT C SQYD	
SUB-TOTAL-1	361837.70	99761.17	19517.53	40339.79	10998.69	64483.72		ROUTE 50 – EB
SUB-TOTAL-2	365537.81	95150.26	19820.27	40676.24	10535.25	64345.70		ROUTE 50 – WB
SUB-TOTAL-3	0.00	17293.04	0.00	0.00	1914.72	1729.30	4031.89	ROUTE 50 – EB & WB (ENTRANCES & CROSS OVERS)
TOTAL	727375.51	212294.47	39337.80	81016.03	23448.66	130558.72	4031.89	
TOTAL		939579.98	39337.80	81016.03	23448.66	130558.72		
FINAL TOTAL		939579.98	39337.80	81016.03	23448.66	130558.72	4031.89	
PAY TOTAL		939580.00	39337.80	81016.00	23448.70	130559.00	4032.00	

PERMANENT AGGREGATE EDGE TREATMENT				
BEG. BEG. LOG MILE	END END LOGMILE	LENGTH LF	EDGE DROP OFF TREATMENT TYPE 1 OR 5 AGGR. TON	REMARKS
33.761	54.699	110552.64	641.48	ROUTE 50 - EB, BEG. TO END OF PROJECT (LEFT SHOULDER)
208.880	228.062	101280.96	587.68	ROUTE 50 - WB, BEG. TO END OF PROJECT (LEFT SHOULDER)
TOTAL		211833.60	1229.16	
FINAL TOTAL			1230.00	

REMOVAL OF IMPROVEMENTS			
ITEM	QUANTITY	UNIT	COMMENTS
GUARDRAIL	17300.00	LF	REMOVING EXISTING GUARDRAILS – REFER QUANTITY SHEET 3 OF 5 FOR GUARDRAIL LOCATIONS
TOTAL	1.0	LS	

QUANTITY SHEET
SHEET 1 OF 5

COLDMILL AND FILL – MEDIAN OPENINGS AND ENTRANCES						
LOG MILE	AREA SF	COLDMILL SY	2" BP-1 TONS	TACK COAT GAL	4" GRAVEL (A) OR CRUSHED STONE (B) OR CHAT (C) SQYD	REMARKS
33.825/ 228.015	7555.00	839.44	92.95	83.9		NW 1501 ST RD (SOUTH & NORTH ENTRANCES) & CROSS OVER
34.035	675.00				75.0	PVT. ENT. (ROUTE 50 EB)
34.375	450.00				50.0	PVT. ENT. (ROUTE 50 EB)
34.590/ 227.245	2250.00				250.0	NW 1421ST RD (NORTH & SOUTH ENTRANCES) & CROSS OVER
34.590/ 227.245	2390.00	265.56	29.40	26.6		CROSS OVER/ NW1421ST RD
35.100	1025.00				113.9	PVT. ENT. (ROUTE 50 EB)
35.100	2150.00	238.89	26.45	23.9		CROSS OVER
226.677	1175.00				130.6	NW1391 (ROUTE 50 WB)
35.603/ 226.180	10500.00	1166.67	129.18	116.7		NEUTRAL BARS SPACE – EB & WB
35.615/ 226.224	6790.00	754.44	83.53	75.4		MD 131 – S & N ENTRANCES
225.952	100.00				11.1	PVT. ENT. (ROUTE 50 WB) – UPTD R/W
225.908	520.00				57.8	PVT. ENT. (ROUTE 50 WB)
225.740	250.00				27.8	PVT. ENT. (ROUTE 50 WB)
36.122	600.00				66.7	PVT. ENT. (ROUTE 50 EB)
36.374/ 225.466	2675.00	297.22	32.91	29.7		NW1251ST RD CROSS OVER
36.374/ 225.466	2570.00				285.6	NW1251ST RD ENT. (ROUTE 50 WB) & PVT. ENT. (ROUTE 50 EB)
36.189	3830.00	425.56	47.12	42.6		CROSS OVER – NW 1201 ST RD
36.789/ 225.055	2900.00				322.2	PVT. ENT. (ROUTE 50 EB) & 1201ST RD ENT. (ROUTE 50 WB)
224.477	810.00				90.0	PVT. ENT. (ROUTE 50 WB)
37.608/ 224.211	3020.00	335.56	37.15	33.6		CROSS OVER – 500TH RD
37.608/ 224.211	2050.00				227.8	PVT. ENT. (ROUTE 50 EB & WB)
224.071	1450.00				161.1	PVT. ENT. (ROUTE 50 WB)
38.005/ 223.813	5260.00	584.44	64.71	58.4		CROSS OVER & NW 475 TH RD & NW475TH RD ENT. (ROUTE 50 WB)
38.005	2500.00				277.8	NW 475TH RD ENT. (ROUTE 50 EB & WB)
38.487/ 223.336	4940.00	548.89	60.77	54.9		CROSS OVER & S. ENTRANCE – NW 375 TH RD
39.024/ 222.807	7565.00	840.56	93.07	84.1		CROSS OVER – N & S. ENTRANCES – NW 1051ST RD
39.568/ 222.255	1720.00	191.11	21.16	19.1		CROSS OVER
39.568/ 222.255	730.00				81.1	PVT. ENT. (ROUTE 50 EB & WB)
221.866	585.00				65.0	PVT. ENT. (ROUTE 50 WB)
40.337/ 220.000	3380.00	375.56	41.58	37.6		S. ENTRANCE – NW 375 TH RD & CROSS OVER
40.595	385.00				42.8	PVT. ENT. (ROUTE 50 EB)
40.760/ 221.063	4700.00	522.22	57.82	52.2		NW STATE HWY M ENTRANCE & CROSS OVER
40.760	900.00				100.0	NW 871 ST RD ENT. – ROUTE 50 EB
41.381/ 220.433	5590.00	621.11	68.77	62.1		S. & N. NW 821ST RD ENTRANCES & CROSS OVER
40.420	2475.00				275.0	NW 250TH RD ENT. – ROUTE 50 EB
42.439	1450.00				161.1	NW751ST RD ENT. – ROUTE 50 EB
219.55	2540.00				282.2	NW 751ST RD N. & S. ENT. – ROUTE WB
42.180	280.00				31.1	PVT. ENT. (ROUTE 50 EB)
42.780/ 219.134	2230	325.56	36.05	32.6		CROSSOVER ENTRANCES
43.158/ 218.755	2794.25	310.47	34.38	31.0		CROSS OVER & NW 671ST RD. ENT-ROUTE 50 WB
43.854/ 218.050	4060.00	451.11	49.95	45.1		CROSS OVER (NW 175TH RD) & ENT. ROUTE 50 EB
218.05	300.00				35.3	NW 175TH RD ENT. – ROUTE 50 WB
44.218/ 217.722	2445.00	271.67	30.08	27.2		S. ENTRANCE – NW 105TH RD & CROSS OVER
217.722	425.00				47.2	N. ENTRANCE – NW 105TH RD – ROUTE 50 WB
45.037/ 216.882	5911.55	656.84	72.73	65.7		S. & N. ENTRANCES – NW 601ST RD (R/W). CROSS OVER
216.771	765.00	85.00	9.41	8.5		PVT. N. ENT. (ROUTE 50 WB)
45.168	32				36.1	S. PVT. ENTRANCE – ROUTE 50 EB
216.124	825.00	91.67	10.15	9.2		PVT. N. ENT. (ROUTE 50 WB)
216.066	660.00	73.33	8.12	7.3		PVT. N. ENT. (ROUTE 50 WB)
45.744 – 45.844	2470.95	274.55	30.40	27.5		NEUTRAL SPACE BETWEEN LOG MILE 45.744 AND 45.844-EB
45.896/ 216.031	14559.75	1606.64	171.89	160.7		S. & N. NW 501ST RD ENT. – ROUTE 50 WB
215.891 – 216.026	1157.45	195.32	21.63	19.5		NEUTRAL SPACE BETWEEN LOG MILE 216.026 AND 215.891-WB
215.831	1120.00	124.44	13.78	12.4		PVT. N. ENT. (ROUTE 50 WB)
46.910/ 215.017	2130.00	236.67	26.20	23.7		CROSS OVER
46.910/ 215.017	1160.00				128.9	S. & N. ENTRANCES – ROUTE 50 EB & WB
215.053	450.00				41.7	PVT. N. ENT. (ROUTE 50 WB)
47.045	375.00				41.7	S. PVT. ENTRANCE – ROUTE 50 EB
47.140/ 214.786	2745.00	305.00	33.77	30.5		CROSS OVER & NW 391 RD ENT. – ROUTE 50 WB
214.740	490.00				54.4	PVT. N. ENT. (ROUTE 50 WB)
47.140/ 214.505	4247.00	471.89	52.25	47.2		CROSS OVER & NW 361ST RD ENTRANCES – ROUTE 50 EB & WB
214.172	402.00	44.67	4.95	4.5		CROSS OVER & NW 331ST RD ENT. – ROUTE 50 WB
47.861/ 214.065	4280.00	475.56	52.65	47.6		CROSS OVER & PVT. ENTRANCES – RTE 50 EB & WB (SKY HEAVEN)
213.979	2230	247.78	27.43	24.8		PVT. N. ENT. (ROUTE 50 WB) – SKY HEAVEN (R/W)
48.180/ 213.745	2010.00	223.33	24.73	22.30		* NW 215TH RD. RTE.50 EB. CROSS OVER AND ENT. OR RTE 50 WB
48.440/ 213.485	1930.00	214.44	23.74	21.4		NW 251ST RD – CROSS OVER & ENTRANCE ON RTE 50 WB
48.740/ 213.185	1350.00	150.00	16.61	15.0		CROSS ROAD
213.185	335.00				37.2	PVT. N. ENT. (ROUTE 50 WB)
48.996/ 212.930	2793.00	310.33	34.36	31.0		N. ENTRANCE NW 191ST RD & CROSS OVER
49.367/ 212.468	3236.00	359.56	39.61	36.0		S. ENTRANCE NW 151ST RD & CROSS OVER
212.468	450.00				50.0	PVT. N. ENT. (ROUTE 50 WB)
49.715/ 212.210	2890.00	321.11	35.55	32.1		NW 121ST RD – CROSS OVER
49.715/ 212.210	2302.00				255.8	NW 121ST RD – SOUTH & NORTH PVT. ENTRANCES – RTE.50 EB & WB
50.637/ 211.610	6375.00	708.33	78.43	70.8		CROSS OVER – RTE. 50 BUS- ENT.
211.610	610.00				67.8	105- N. ENT. (ROUTE 50 WB)
52.615	1075.00	119.44	13.23	11.9		BUS 50 – SOUTH ENTRANCE – ROUTE 50 EB (R/W)
208.829	900.00	100.00	11.07	10.0		N. ENTRANCE –NE201 – ROUTE 50 WB
53.332	2100	233.33	25.84	23.3		S. ENTRANCE – N. DEVAHER – ROUTE 50 EB (R/W)
208.51	395				43.9	PVT. N. ENT. (ROUTE 50 WB)
53.618/ 208.306	2680	297.78	32.97	29.8		CROSS OVER 10ND SOUTH ENTRANCE – RTE. 50 EB))
SUB-TOTAL-3		17293.04	1914.72	1729.30	4031.89	

QUANTITY SHEET
SHEET 2 OF 5



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

PAVEMENT REPAIR												
REPAIR NO.	LOG MILE	FULL DEPTH / PARTIAL DEPTH	PASSING LANE	DRIVING LANE	LENGTH LF	WIDTH LF	FURN. & PL. CONC. MATL. FULL DEPTH SY	6" SUBGRADE COMPACTION SY	TYPE 1 OR 5 BASE 4" AGGR. SY	DOWEL BARS EA	SAW CUT LF	REMARKS
ROUTE 50 EAST BOUND												
1	33.770	FULL DEPTH		X	10	6	6.7	0.7	0.7	20	32	BEFORE BEG. OF JOB
2	33.796	FULL DEPTH		X	8	12	10.7	1.1	1.1	20	40	JUST PASS BEG. OF JOB
3	33.808	FULL DEPTH	X	X	10	12	13.3	1.3	1.3	20	44	
4	33.816	FULL DEPTH	X	X	6	12	8.0	0.8	0.8	20	36	
5	33.877	FULL DEPTH	X	X	6	12	8.0	0.8	0.8	20	36	
6	34.514	FULL DEPTH		X	6	12	8.0	0.8	0.8	20	36	JUST BEFORE 1421
7	34.529	FULL DEPTH	X		6	12	8.0	0.8	0.8	20	36	
8	34.916	FULL DEPTH		X	8	12	10.7	1.1	1.1	20	40	
9	35.025	FULL DEPTH	X	X	6	24	16.0	1.6	1.6	20	60	JUST BEFORE 1314 NW 50 HWY
10	35.026	FULL DEPTH		X	8	12	10.7	1.1	1.1	20	40	BEFORE BURNS SHOP
11	35.042	FULL DEPTH	X		6	12	8.0	0.8	0.8	20	36	
12	35.052	FULL DEPTH		X	12	12	16.0	1.6	1.6	20	48	
13	35.246	FULL DEPTH	X	X	6	24	16.0	1.6	1.6	20	60	ROUTE 131
15	36.102	FULL DEPTH	X	X	6	24	16.0	1.6	1.6	20	60	1286 NW 50 HWY
16	36.266	FULL DEPTH		X	8	12	10.7	1.1	1.1	20	40	RTE-131 EAST J TURN TO 50 EAST
17	36.270	FULL DEPTH		X	6	12	8.0	0.8	0.8	20	36	
18	36.281	FULL DEPTH		X	8	12	10.7	1.1	1.1	20	40	
19	36.745	FULL DEPTH	X	X	6	24	16.0	1.6	1.6	20	60	1201 RD
20	38.100	FULL DEPTH	X		6	12	8.0	0.8	0.8	20	36	
21	38.507	FULL DEPTH	X	X	6	24	16.0	1.6	1.6	20	60	
22	38.580	FULL DEPTH	X	X	6	24	16.0	1.6	1.6	20	60	
23	39.396	FULL DEPTH		X	6	12	8.0	0.8	0.8	20	36	
24	39.406	FULL DEPTH	X	X	6	24	16.0	1.6	1.6	20	60	
25	39.413	FULL DEPTH	X	X	6	24	16.0	1.6	1.6	20	60	
26	40.198	FULL DEPTH		X	6	12	8.0	0.8	0.8	20	36	FRIENDSHIP BAPTIST
27	40.545	FULL DEPTH		X	6	12	8.0	0.8	0.8	20	36	BEFORE ARWOOD SIGN
28	41.356	FULL DEPTH		X	10	4	4.4	0.4	0.4	20	28	821 RD
29	42.400	FULL DEPTH	**		11.5	6	7.7	0.8	0.8	20	36	** CULVERT REPLACEMENT - REFER SS 1
30	42.415	FULL DEPTH	X		6	12	8.0	0.8	0.8	20	36	S CURVE
31	42.417	FULL DEPTH	X	X	6	12	8.0	0.8	0.8	20	36	S CURVE
32	42.744	FULL DEPTH	X		30	4	13.3	1.3	1.3	20	72	
33	42.746	FULL DEPTH		X	15	6	10.0	1.0	1.0	20	48	JUST PASSED BRIDGE AT GAS STATION
34	43.456	FULL DEPTH	X	X	6	24	16.0	1.6	1.6	20	60	JUST PASSED BRIDGE AT GAS STATION
35	43.569	FULL DEPTH	X	X	6	4	2.7	0.3	0.3	20	20	
36	43.674	FULL DEPTH	X	X	6	24	16.0	1.6	1.6	20	60	JUST PASSED BRIDGE AT GAS STATION
37	43.962	FULL DEPTH	X	X	6	24	16.0	1.6	1.6	20	60	
38	43.972	FULL DEPTH	X	X	6	24	16.0	1.6	1.6	20	60	JUST PASSED BRIDGE UPHILL CURVE
39	44.462	FULL DEPTH	X	X	6	24	16.0	1.6	1.6	20	60	MIDWAY UPHILL ON CURVE
40	44.731	FULL DEPTH	X	X	6	24	16.0	1.6	1.6	20	60	END OF GUARDRAIL
41	44.930	FULL DEPTH	X	X	6	24	16.0	1.6	1.6	20	60	TOP OF HILL
42	45.502	FULL DEPTH	X	X	6	24	16.0	1.6	1.6	20	60	RTE. 58 J TURN WEST TO EAST
43	47.831	FULL DEPTH	X	X	6	24	16.0	1.6	1.6	20	60	CENEX AT AIRPORT
44	48.248	FULL DEPTH	X	X	6	24	16.0	1.6	1.6	20	60	AIRPORT SIGN WITH ARROW
45	48.736	FULL DEPTH	X	X	6	24	16.0	1.6	1.6	20	60	CROSS OVER AT MORTON SIGN BILLBOARD
46	48.944	FULL DEPTH	X	X	6	12	8.0	0.8	0.8	20	36	CROSS OVER AT 191 RD
47	49.333	FULL DEPTH	X	X	6	24	16.0	1.6	1.6	20	60	BRIDGE AT A4891
48	50.134	FULL DEPTH	X	X	6	24	16.0	1.6	1.6	20	60	STOMPING GROUND SIGN AT BUS.13
49	50.851	FULL DEPTH	X	X	6	24	16.0	1.6	1.6	20	60	CENTRAL MO EXIT SIGN
50	51.422	FULL DEPTH	X	X	6	24	16.0	1.6	1.6	20	60	UNDER BUS.13
51	52.025	FULL DEPTH	X	X	6	24	16.0	1.6	1.6	20	60	MATLINE ACROSS HOLIDAY INN
52	52.249	FULL DEPTH	X	X	6	12	8.0	0.8	0.8	20	36	JUST BEFORE PCA BRIDGE
53	52.714	FULL DEPTH	X	X	6	24	16.0	1.6	1.6	20	60	IN FRONT OF FASTENEL
54	52.854	FULL DEPTH	X	X	6	24	16.0	1.6	1.6	20	60	ACROSS FROM EBERSYS
SUB TOTAL - 1							648.9	65.0	65.0	1040.0	2524.0	

PAVEMENT REPAIR												
REPAIR NO.	LOG MILE	FULL DEPTH / PARTIAL DEPTH	PASSING LANE	DRIVING LANE	LENGTH LF	WIDTH LF	FURN. & PL. CONC. MATL. FULL DEPTH SY	SUBGRADE 6" COMPACTION SY	TYPE 1 OR 5 BASE 4" AGGR. SY	DOWEL BARS EA	SAW CUT LF	REMARKS
ROUTE 50 WEST BOUND												
1	207.914	FULL DEPTH	X	X	6	24	16.0	1.6	1.6	20	60	WEST OF RTE.13 BYPASS
2	208.924	FULL DEPTH	X	X	8	24	21.3	2.1	2.1	20	64	BETWEEN PCA EXIT RAMP & BUS.13
3	209.070	FULL DEPTH		X	6	12	8.0	0.8	0.8	20	36	
4	209.110	FULL DEPTH	X	X	6	24	16.0	1.6	1.6	20	60	BETWEEN PCA EXIT RAMP & BUS.13
5	209.134	FULL DEPTH	X	X	6	24	16.0	1.6	1.6	20	60	BETWEEN PCA EXIT RAMP & BUS.13
6	209.179	FULL DEPTH	X	X	6	24	16.0	1.6	1.6	20	60	
7	209.191	FULL DEPTH	X	X	6	24	16.0	1.6	1.6	20	60	BETWEEN PCA EXIT RAMP & BUS.13
8	209.846	FULL DEPTH	X	X	6	24	16.0	1.6	1.6	20	60	PCA ON RAMP
9	210.193	FULL DEPTH	X	X	6	24	16.0	1.6	1.6	20	60	BETWEEN PCA & WARRENSBURG SIGN
10	210.215	FULL DEPTH	X	X	6	24	16.0	1.6	1.6	20	60	BETWEEN PCA & WARRENSBURG SIGN
11	210.514	FULL DEPTH		X	8	12	10.7	1.1	1.1	20	40	
12	210.518	FULL DEPTH		X	6	12	8.0	0.8	0.8	20	36	UNDER BUS.13
13	210.527	FULL DEPTH	X	X	6	24	16.0	1.6	1.6	20	60	UNDER BUS.13
14	210.921	FULL DEPTH	X	X	6	24	16.0	1.6	1.6	20	60	JUST WEST OF BUS.13 ON RAMP
15	211.177	FULL DEPTH	X	X	6	24	16.0	1.6	1.6	20	60	JUST EAST OF LEES SUMMIT SIGN PASS BUS.13
16	211.905	FULL DEPTH	X	X	6	24	16.0	1.6	1.6	20	60	POST OAK BRIDGE
17	212.687	FULL DEPTH	X	X	6	24	16.0	1.6	1.6	20	60	
18	212.695	FULL DEPTH	X	X	6	24	16.0	1.6	1.6	20	60	JUST PASSED BRIDGE A1042
19	213.597	FULL DEPTH	X	X	6	24	16.0	1.6	1.6	20	60	IN FRONT OF STORAGE
20	213.725	FULL DEPTH	X	X	6	24	16.0	1.6	1.6	20	60	IN FRONT OF CREEK ENTERPRISE
21	214.016	FULL DEPTH	X	X	6	12	8.0	0.8	0.8	20	36	ACROSS FROM AIRPORT/ CENEX
22	214.098	FULL DEPTH	X	X	6	12	8.0	0.8	0.8	20	36	ACROSS FROM AIRPORT/ RUNWAY
23	214.238	FULL DEPTH	X	X	6	24	16.0	1.6	1.6	20	60	WILLOW LAKE
24	214.240	FULL DEPTH	X	X	6	24	16.0	1.6	1.6	20	60	WILLOW LAKE
25	215.846	FULL DEPTH	X	X	6	24	16.0	1.6	1.6	20	60	JUST BEFORE ROUTE 58
26	218.477	FULL DEPTH	X	X	6	24	16.0	1.6	1.6	20	60	EAST OF BLACK WATER BRIDGE
27	218.499	FULL DEPTH	X	X	6	24	16.0	1.6	1.6	20	60	EAST OF BLACK WATER BRIDGE
28	218.623	FULL DEPTH	X	X	6	12	8.0	0.8	0.8	20	36	BLACK WATER BRIDGE APPROACH
29	218.978	FULL DEPTH	X	X	10	24	26.7	2.7	2.7	20	68	WEST OF LAKE STOP/ CENEX
30	219.071	FULL DEPTH	X	X	10	24	26.7	2.7	2.7	20	68	WEST OF LAKE STOP/ CENEX
31	219.246	FULL DEPTH	X	X	6	24	16.0	1.6	1.6	20	60	WEST OF LAKE STOP/ CENEX
32	219.421	FULL DEPTH	X	X	6	24	16.0	1.6	1.6	20	60	WEST OF LAKE STOP/ CENEX
33	219.527	FULL DEPTH	X	X	6	24	16.0	1.6	1.6	20	60	EAST OF 751 RD
34	220.501	FULL DEPTH		X	6	12	8.0	0.8	0.8	20	36	
35	220.549	FULL DEPTH		X	6	12	8.0	0.8	0.8	20	36	
36	220.926	FULL DEPTH	X	X	6	24	16.0	1.6	1.6	20	60	EAST OF ROTE M
37	222.850	FULL DEPTH	X	X	6	24	16.0	1.6	1.6	20	60	
38	222.904	FULL DEPTH	X	X	6	24	16.0	1.6	1.6	20	60	METAL BETTER BILLBOARD
39	224.082	FULL DEPTH	X	X	6	24	16.0	1.6	1.6	20	60	
40	224.113	FULL DEPTH	X	X	8	24	21.3	2.1	2.1	20	64	1129 NW 50 HWY HOUSE
41	224.513	FULL DEPTH	X	X	6	24	16.0	1.6	1.6	20	60	DRIVEWAY WHITE FENCE
42	226.672	FULL DEPTH	X		6	12	8.0	0.8	0.8	20	36	EAST OF 1391 RD
43	228.040	FULL DEPTH	X		6	12	8.0	0.8	0.8	20	36	
SUB TOTAL -2							605.4	60.6	60.6	820.0	2244.0	

PAVEMENT REPAIR SUMMARY					
	FIRNISHING & PLACING CONC. MATL. FOR FULL DEPTH PVM'T. REPAIR SQ.YD	SUBGRADE 6" COMPACTION SY	TYPE 1 OR 5 AGGREGATE FOR 4" THICK BASE SQ.YD	FULL DEPTH PVM'T. REPAIR SAW CUT LF	DOWELL BAR FOR FULL DEPTH PVM'T. REPAIR EA
SUB-TOTAL 1	648.90	65.00	65.00	2524.00	1040.00
SUB-TOTAL 2	605.40	60.60	60.60	2244.00	820.00
TOTAL	1254.30	125.60	125.60	4768.00	1860.00
FINAL TOTAL	1254.30	126.00	126.00	4768.00	1860.00

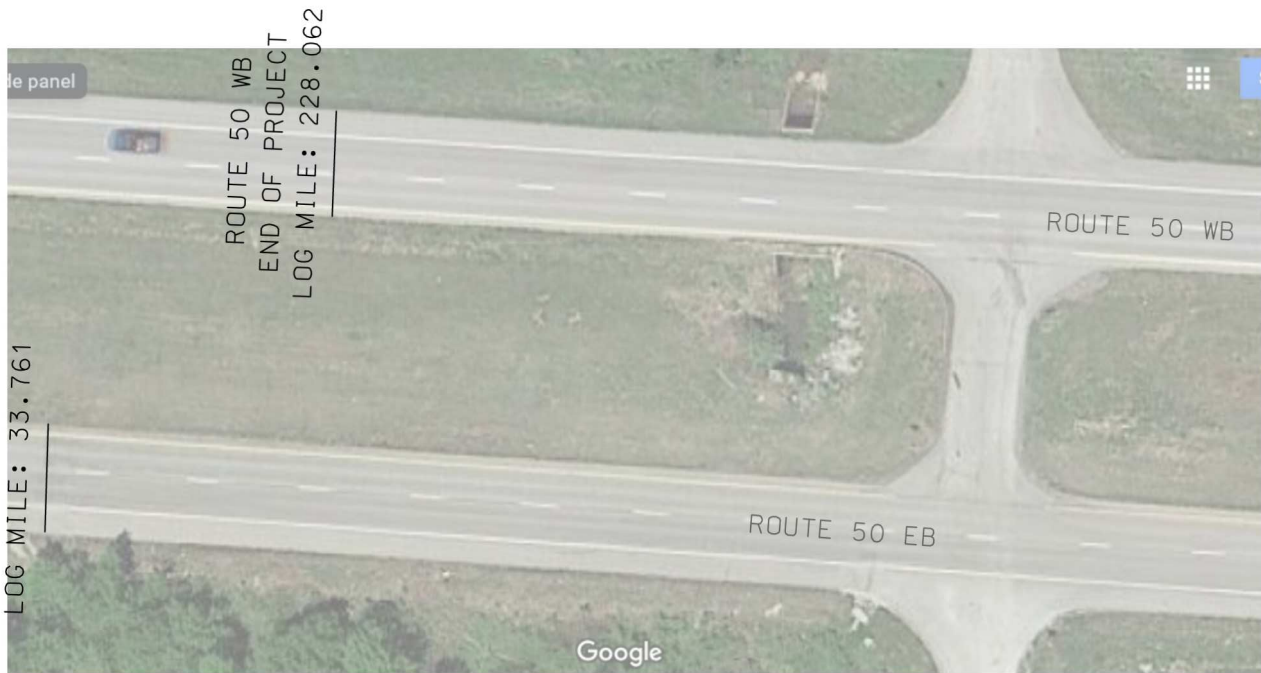
GUARDRAIL												
BEG. LOG MILE	END LOG MILE	LENGTH LF	MGS 8' POST 6'- 3' " SPACING LF	MGS GUARDRAIL LF	GUARDRAIL TYPE E LF	BULLNOSE GUARDRAIL SYSTEM EA	MGS-MASH CRASHWORTHY END TERMINAL-TYPE A EA	MGS-BRIDGE APPROACH TRANSITION SECTION EA	MGS END ANCHOR EA	TYPE-D MOD. CONC. TRAFFIC BARRIER LF	SHAPING CLASS III 100LF	REMARKS
42.378	42.480	512.50		475.00			1.0		1.0		1.00	US50 EBL - SKIPPING POST AT THE 2 EX. CULVERTS-STD.PLAN 606.50D
43.228	43.303	350.00		262.50				1.0			0.75	BR. A1175 (RIGHT SHLDRS.US50 EB)
43.234	43.303	375.00		287.50				1.0			0.75	BR. A1176 (LEFT SHLDRS. US50 EB)
43.859	43.885	137.50		87.50			1.0	1.0			0.75	BR. A1176 (RIGHT SHLDRS. US50 EB)
43.861	43.885	137.50		87.50			1.0	1.0			0.75	BR. A1176 (LEFT SHLDRS. US50 EB)
44.200	44.465	1400.00		1337.50			1.0		1.0		0.75	BETWEEN OUTER 50 AND NW601 - US50 EB
44.636	44.719	437.50		375.00			1.0		1.0		0.75	BETWEEN OUTER 50 AND NW601 - US50 EB
48.636	48.690	162.50		225.00			1.0		1.0		0.75	BETWEEN 271 AND 151 - US50 EB (INCREASED GR LENGTH)
49.231	49.302	375.00		287.50			1.0	1.0			0.75	BR. A4891 (RIGHT SHLDRS. US50 EB)
49.232	49.305	387.50		300.00			1.0	1.0			0.75	BR. A4891 (LEFT SHLDRS. US50 EB)
49.875	49.948	387.50		300.00			1.0	1.0			0.75	BR. G0955 (RIGHT SHLDRS. US50 EB)
49.878	49.948	375.00		287.50			1.0	1.0			0.75	BR. G0955 (LEFT SHLDRS. US50 EB)
50.698	50.868	900.00		837.50			1.0		1.0		0.75	US50 EBL
51.195	51.244	112.50		137.50			1.0	1.0		37.5	1.50	TYPE-D MOD. CONCRETE BARRIER-EB - HOLDEN ST. (REFER TS SHEET 3 OF 3)
51.216	51.256	325.00			250.00	2.00					0.75	MEDIAN PIER PROTECTION-HOLDEN ST.
51.385	51.440	150.00		137.50			1.0	1.0		60.0	1.50	TYPE-D MOD. CONCRETE BARRIER-EB - BUS.13 (REFER TS SHEET 3 OF 3)
51.407	51.455	425.00			350.00	2.00					0.75	MEDIAN PIER PROTECTION-BUS.13
51.716	51.776	350.00		300.00			1.0		1.0		0.75	US50 EBL
51.856	51.957	500.00		450.00			1.0		1.0		0.75	US50 EBL
52.292	52.340	237.50		237.50			1.0		1.0		1.40	ROUTE50 EB - UNDER PCA RD OVERPASS
52.310	52.350	425.00			350.00	2.00					0.75	MEDIAN PIER PROTECTION-PCA RD.
52.725	52.925	1050.00	987.50				1.0		1.0		10.50	NEW GR-RTE 50EB, RT. SHLDR, BETN' BUS.50 & EAST OF N. RIDGEVIEW DR.
54.072	54.143	375.00		325.00			1.0	1.0			0.75	BR. A7461 - LEFT SHLDR. US50 EB
54.090	54.143	275.00		225.00			1.0	1.0			0.75	BR. A7461 - RIGHT SHLDR. US50 EB
207.683	207.752	375.00		325.00			1.0	1.0			0.75	BR. A7462 - LEFT SHLDR. US WB
207.703	207.752	287.50		237.50			1.0	1.0			0.75	BR. A7462 - RIGHT SHLDR. US50 WB
209.545	209.600	237.50		237.50			1.0		1.0		1.40	ROUTE50 WB - UNDER PCA RD OVERPASS
210.080	210.186	400.00		500.00			1.0		1.0		1.65	US50 WBL - ADD 162.5' GR ON THE EAST SIDE OF THE EX. GR.
210.241	210.381	725.00		662.50			1.0		1.0		0.75	EXIT TO ROUTE BUS. 13
210.454	210.508	150.00		137.50			1.0	1.0		60.0	1.50	TYPE-D MOD. CONCRETE BARRIER-WB - BUS.13 (REFER TS SHEET 3 OF 3)
210.645	210.695	125.00		137.50			1.0	1.0		37.5	1.50	TYPE-D MOD. CONCRETE BARRIER-WB - HOLDEN ST. (REFER TS SHEET 3 OF 3)
211.444	211.567	550.00		587.50			1.0		1.0		0.75	US50 WBL (ADD EXTRA 100' GR AT THE BEG.)
211.854	211.930	400.00		312.50			1.0	1.0			0.75	BR. A1043 - LEFT SHLDR. US50 WB
211.864	211.930	350.00		287.50			1.0	1.0			0.75	BR. A1043 - RIGHT SHLDR. US50 WB
212.507	212.590	437.50		350.00			1.0	1.0			0.75	BR. A1042 - LEFT SHLDR. US50 WB
212.519	212.590	375.00		287.50			1.0	1.0			0.75	BR. A1042 - RIGHT SHLDR US50 WB
217.934	218.000	350.00		262.50			1.0	1.0			0.75	BR. B0270 - RIGHT SHLDR. US50 WB
217.945	218.000	300.00		212.50			1.0	1.0			0.75	BR. B0270 - LEFT SHLDR. US50 WB
218.457	218.545	450.00		362.50			1.0	1.0			0.75	BR. G0952 - LEFT SHLDR. US50 WB
218.474	218.545	375.00		287.50			1.0	1.0			0.75	BR. G0952 - RIGHT SHLDR. US50 WB
221.704	221.805	587.50		525.00			1.0		1.0		0.75	US50 WBL
226.057	226.183	662.50		600.00			1.0		1.0		0.75	BEFORE MO131 ON US50 WB
	TOTAL	17300.0	987.5	13275.0	950.0	6.0	37.0	24.0	15.0	195.0	46.7	
	F INAL	TOTAL	987.50	13275.00	950.00	6.00	37.00	24.00	15.00	195.00	47.00	

DATE PREPARED	
9/9/2021	
ROUTE	STATE
50	MO
DISTRICT	SHEET NO.
KC	3
COUNTY	
JOHNSON	
JOB NO.	
J3P3064	
CONTRACT ID.	

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M

ROUTE 50 EB
BEG. OF PROJECT
LOG MILE: 33.761



NOT TO SCALE

ROUTE 50 WB
END OF PROJECT
LOG MILE: 228.062



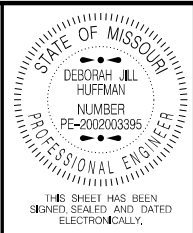
(A) ROUTE 50 WB, GUARDRAIL BUILD NOTES:
(RT. SHOULDER)
LOG MILE.226.057 TO 226.183
REMOVE THE EX. GR & REPLACE
MGS GUARDRAIL: 600'
1 TYPE A CET (MASH) & END ANCHOR

NOTES:
POST MAY BE SKIPPED AT THE EX. CULVERT
AS PER STANDARD PLAN



(B) ROUTE 50 WB, GUARDRAIL BUILD NOTES:
(RT. SHOULDER)
LOG MILE.221.704 TO 221.805
REMOVE EX. GR & REPLACE
MGS GUARDRAIL: 525'
1 TYPE A CET (MASH) & END ANCHOR

SPECIAL SHEET
DEPTH TRANSITION
(BEG. & END OF PROJECT), &
GUARDRAIL DETAIL
SHEET 1 OF 10



DATE PREPARED 7/22/2021	
ROUTE 50	STATE MO
DISTRICT KC	SHEET NO. 4
COUNTY JOHNSON	
JOB NO. J3P3064	
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)
JOHNSON J3P3064	

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



(C) ROUTE 50 EB, GUARDRAIL BUILD NOTES:
(RT. SHOULDER)
LOG MILE: 42.378 TO 42.480
REMOVE EX. GR & REPLACE
MGS GUARDRAIL: 475'
1 TYPE A CET (MASH) & END ANCHOR

NOTES:
POST MAY BE SKIPPED AT THE EX. CULVERTS
AS PER STANDARD PLAN AND EXTENT THE GR(25'→)
AT THE END OF THE EX. GUARDRAIL
(EASTSIDE OF THE EX. CULVERT-B)
TO COMPLY THE STANDARD PLAN

(D) GUARDRAIL BUILD NOTES:
ROUTE 50 EB - RT. SHLDR.
LOG MILE: 43.228 TO 43.303
REMOVE EX. GUARDRAIL
AND REPLACE
1 MGS BR. APPR. TRANS.(REG./ NO CURB),
WITH 262.5' MGS GR &
1 TYPE A CET (MASH)

(E) GUARDRAIL BUILD NOTES:
ROUTE 50 EB - LT. SHLDR.
LOG MILE: 43.234 TO 43.303
REMOVE EX. GUARDRAIL
AND REPLACE
1 MGS BR. APPR. TRANS.(REG./ NO CURB),
WITH 287.5' MGS GR &
1 TYPE A CET (MASH)

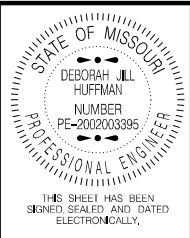


(F) GUARDRAIL BUILD NOTES:
ROUTE 50 WB - RT. SHLDR.
LOG MILE: 218.474 TO 218.545
REMOVE EX. GUARDRAIL
AND REPLACE
1 MGS BR. APPR. TRANS.-
(REG/ NO CURB)
WITH 287.5 MGS GR &
1 TYPE A CET (MASH)

(G) GUARDRAIL BUILD NOTES:
ROUTE 50 EB - LT. SHLDR.
LOG MILE: 218.457 TO 218.545
REMOVE EX. GUARDRAIL
AND REPLACE
1 MGS BR. APPR. TRANS.-
REG./ NO CURB),
WITH 362.5' MGS GR &
1 TYPE A CET (MASH)

NOT TO SCALE

SPECIAL SHEET
GUARDRAIL DETAIL
SHEET 2 OF 10



DATE PREPARED 7/22/2021	
ROUTE 50	STATE MO
DISTRICT KC	SHEET NO. 5
COUNTY JOHNSON	
JOB NO. J3P3064	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

DATE	DESCRIPTION

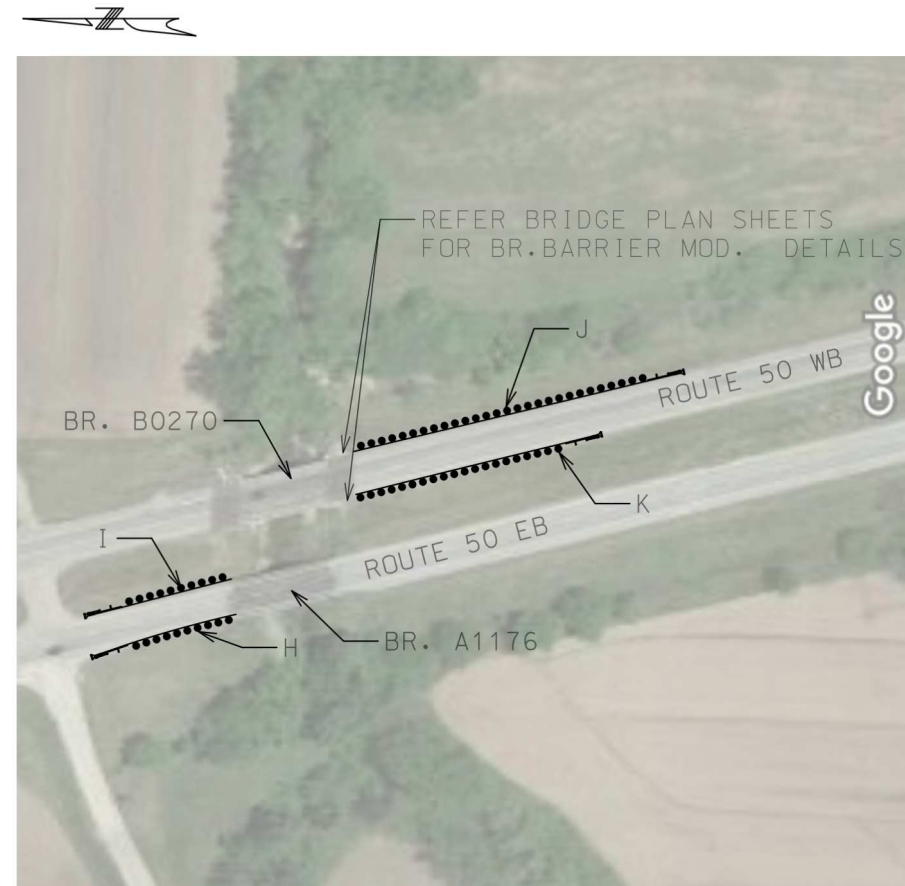
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION



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.

(1) GUARDRAIL BUILD NOTES:
ROUTE 50 EB - LT. SHLDR.
LOG MILE: 43.861 TO 43.885
REMOVE EX. GUARDRAIL
AND REPLACE
1 MGS BR. APPR. TRANS. (REG./ NO CURB),
WITH 87.5' MGS GR &
1 TYPE A CET (MASH)



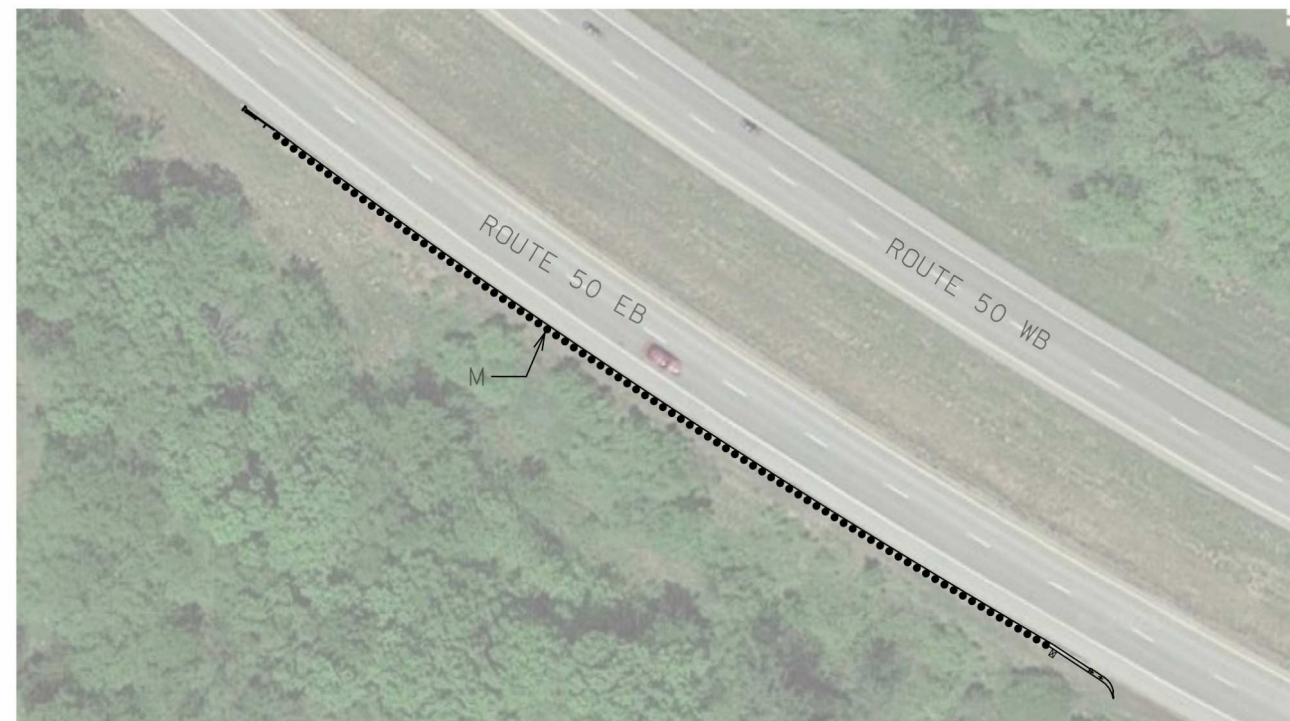
(J) GUARDRAIL BUILD NOTES:
ROUTE 50 WB - RT. SHLDR.
LOG MILE: 217.934 TO 218.000
REMOVE EX. GUARDRAIL
AND REPLACE
1 MGS BR. APPR. TRANS.
(REG./ NO CURB),
WITH 262.5' MGS GR &
1 TYPE A CET (MASH)

(K) GUARDRAIL BUILD NOTES:
ROUTE 50 WB - LT. SHLDR.
LOG MILE: 217.945 TO 218.000
REMOVE EX. GUARDRAIL
AND REPLACE
1 MGS BR. APPR. TRANS.
(REG./ NO CURB),
WITH 212.5' MGS GR &
1 TYPE A CET (MASH)

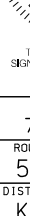
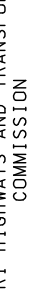
(L) ROUTE 50 EB
GUARDRAIL BUILD NOTES:
LOG MILE.44.200 TO 44.465
(RT. SHOULDER)
REMOVE EX. GR & REPLACE
MGS GUARDRAIL: 1337.5'
1 TYPE A CET (MASH)
& END ANCHOR



(M) ROUTE 50 EB, GUARDRAIL BUILD NOTES:
LOG MILE.44.636 TO 44.719(RT. SHLDR.)
REMOVE EX. GR & REPLACE
MGS GUARDRAIL: 375', 1 TYPE A CET (MASH) & END ANCHOR



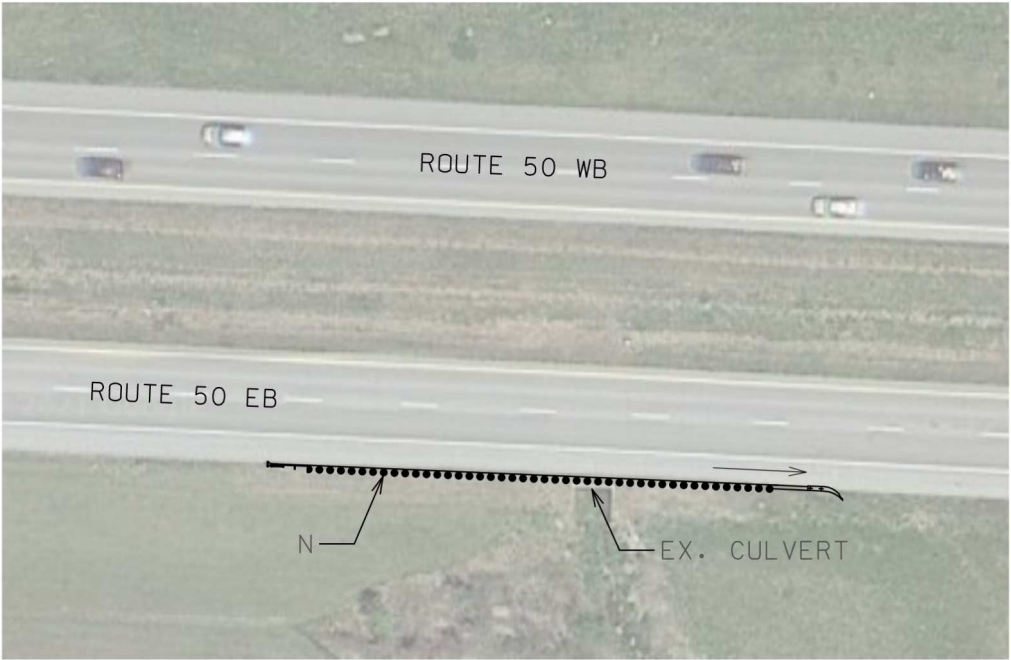
SPECIAL SHEET
GUARDRAIL DETAIL
SHEET 3 OF 10

		THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.	
DATE PREPARED 7/26/2021			
ROUTE 50		STATE MO	
DISTRICT KC		SHEET NO. 6	
COUNTY JOHNSON			
JOB NO. J3P3064			
CONTRACT ID.			
PROJECT NO.			
BRIDGE NO.			
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION		105 WEST CAPITOL JEFFERSON CITY, MO 65102 1-888-ASK-MODOT (1-888-275-6636)	
		DATE	
		DESCRIPTION	

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

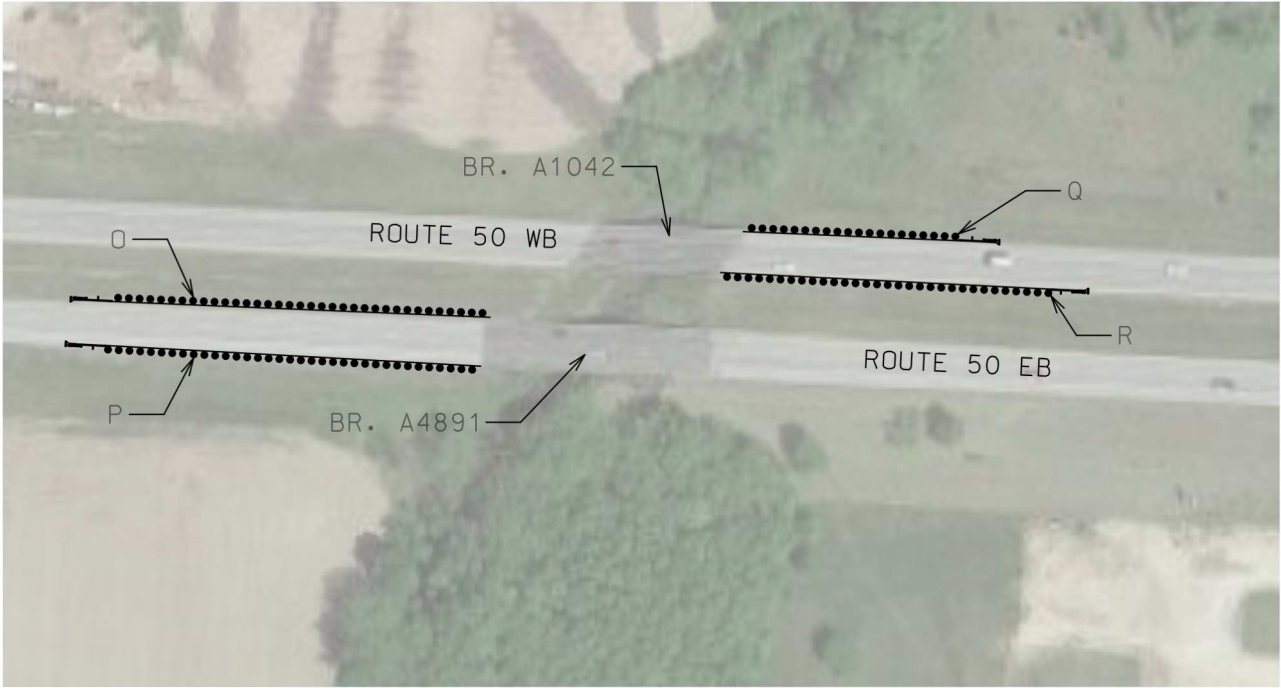
NOT TO SCALE

(N) ROUTE 50 EB, GUARDRAIL BUILD NOTES:
LOG MILE.48.636 TO 48.690(RT. SHLDR.)
REMOVE EX. GR & REPLACE
MGS GUARDRAIL: 225',
1 TYPE A CET (MASH) & END ANCHOR



NOTES:
POST MAY BE SKIPPED AT THE EXISTING CULVERTS AS PER STD PLAN
AND EXTEND GR(62.5'→) ON THE EASTSIDE OF THE EX. CULVERT
IN COMPLIANCE WITH THE STANDARD PLAN

(O) GUARDRAIL BUILD NOTES,
ROUTE 50 EB: LT. SHLDR.
LOG MILE.49.232 TO 49.305
REMOVE EX. GR & REPLACE
1 BR, APPROACH TRANS.(REG./ NO CURB),
MGS GUARDRAIL: 300' &
1 TYPE A CET (MASH)



(P) GUARDRAIL BUILD NOTES,
ROUTE 50 EB: RT. SHLDR.
LOG MILE.49.231 TO 49.302
REMOVE EX. GR & REPLACE
1 BR, APPROACH TRANS.(REG./ NO CURB),
MGS GUARDRAIL: 287.5' &
1 TYPE A CET (MASH)

(Q) GUARDRAIL BUILD NOTES,
ROUTE 50 WB: RT. SHLDR.
LOG MILE.212.519 TO 212.590
REMOVE EX. GR & REPLACE
1 BR, APPROACH TRANS.(REG./ NO CURB),
MGS GUARDRAIL: 287.5' &
1 TYPE A CET (MASH)

(R) GUARDRAIL BUILD NOTES,
ROUTE 50 WB: LT. SHLDR.
LOG MILE.212.507 TO 212.590
REMOVE EX. GR & REPLACE
1 BR, APPROACH TRANS.(REG./ NO CURB),
MGS GUARDRAIL: 350' &
1 TYPE A CET (MASH)

NOT TO SCALE

STATE OF MISSOURI

DEBORAH JILL HUFFMAN

NUMBER PE-2002003395

PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED	
7/22/2021	
ROUTE	STATE
50	MO
DISTRICT	SHEET NO.
KC	7
COUNTY	
JOHNSON	
JOB NO.	
J3P3064	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

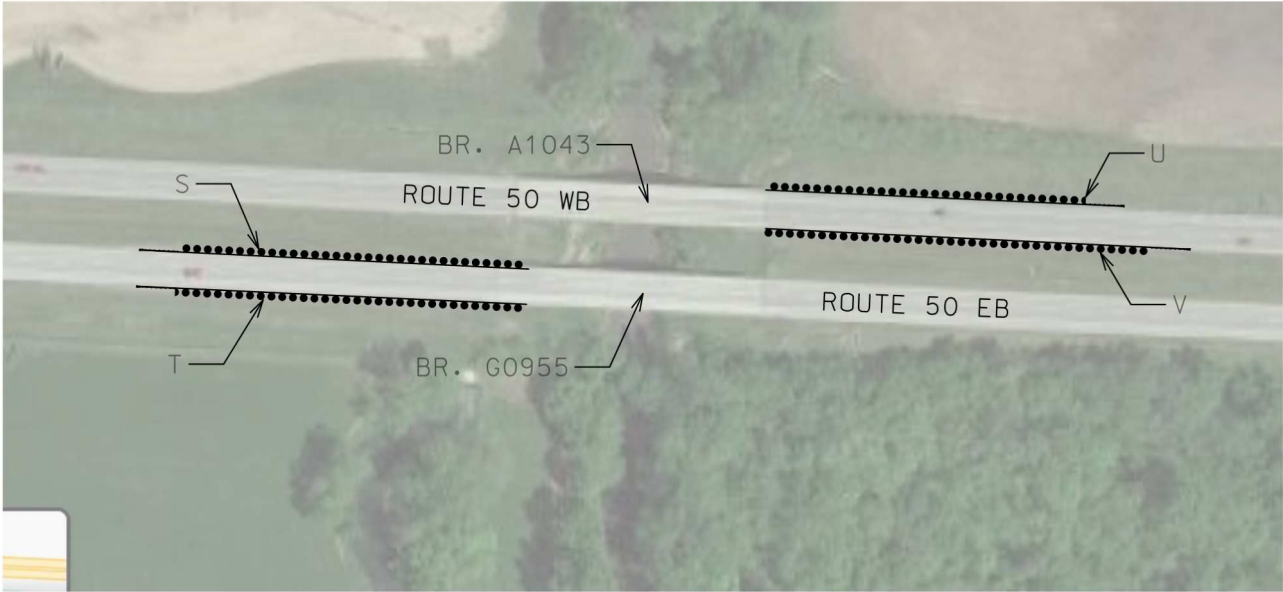
MoDOT

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

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

(S) GUARDRAIL BUILD NOTES,
ROUTE 50 EB: LT. SHLDR.
LOG MILE.49.875 TO 49.948
REMOVE EX. GR & REPLACE
1 BR, APPROACH TRANS.-
(REG./ NO CURB)
MGS GUARDRAIL: 300' &
1 TYPE A CET (MASH)

(T) GUARDRAIL BUILD NOTES,
ROUTE 50 EB: RT. SHLDR.
LOG MILE.49.878 TO 49.948
REMOVE EX. GR & REPLACE
1 BR, APPROACH TRANS.
(REG./ NO CURB),
MGS GUARDRAIL: 287.5' &
1 TYPE A CET (MASH)



(U) GUARDRAIL BUILD NOTES,
ROUTE 50 WB: RT. SHLDR.
LOG MILE.211.864 TO 211.930
REMOVE EX. GR & REPLACE
1 BR, APPROACH TRANS.-
(REG./ NO CURB)
MGS GUARDRAIL: 287.5' &
1 TYPE A CET (MASH)

(V) GUARDRAIL BUILD NOTES,
ROUTE 50 WB: LT. SHLDR.
LOG MILE.211.854 TO 211.930
REMOVE EX. GR & REPLACE
1 BR, APPROACH TRANS.
(REG./ NO CURB),
MGS GUARDRAIL: 312.5' &
1 TYPE A CET (MASH)



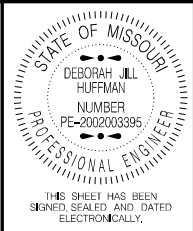
(W) ROUTE 50 WB, GUARDRAIL BUILD NOTES:
LOG MILE.211.444 TO 211.567(RT. SHLDR.)
REMOVE EX. GR (550') & REPLACE
AND EXTEND MGS GUARDRAIL: 587.5',
1 TYPE A CET (MASH) & END ANCHOR



(X) ROUTE 50 EB
GUARDRAIL BUILD NOTES:
LOG MILE.50.698 TO 50.868
(RT. SHOULDER)
REMOVE EX. GR & REPLACE
MGS GUARDRAIL: 837.5',
1 TYPE A CET (MASH) & END ANCHOR

NOT TO SCALE

SPECIAL SHEET
GUARDRAIL AND
CONC. BARRIER DETAIL
SHEET 5 OF 10



DATE PREPARED 7/22/2021	
ROUTE 50	STATE MO
DISTRICT KC	SHEET NO. 8
COUNTY JOHNSON	
JOB NO. J3P3064	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

DATE	DESCRIPTION

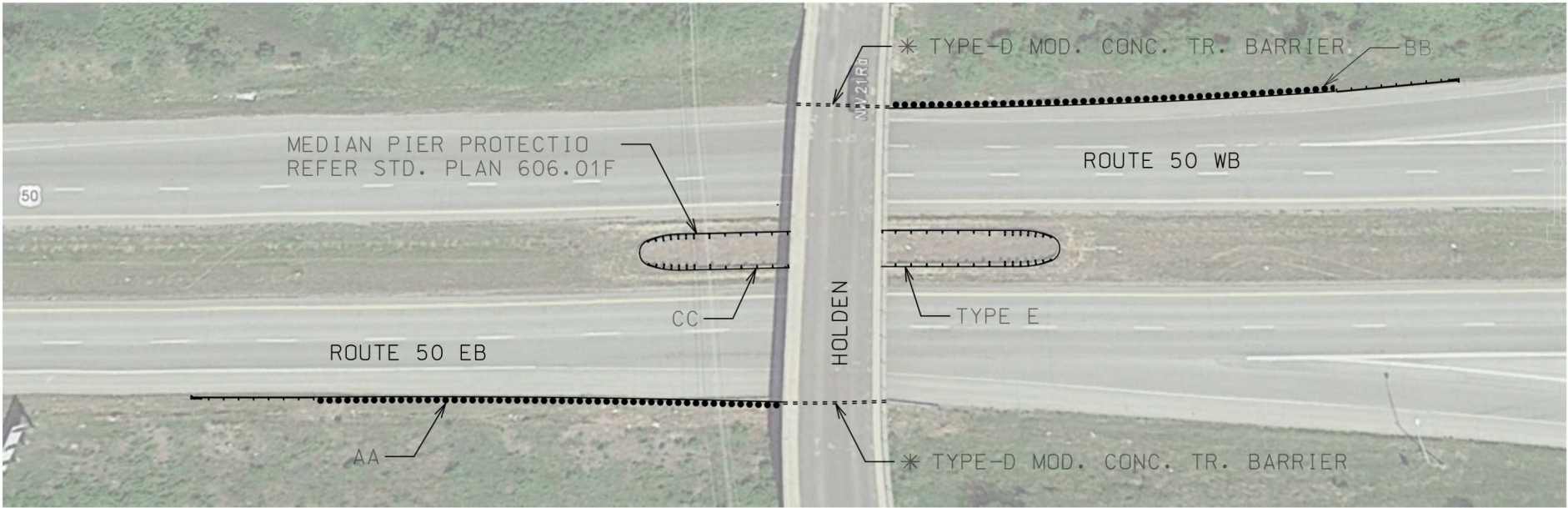
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

The logo for the Missouri Department of Transportation (MoDOT), featuring a stylized 'M' and 'D' with a road winding through them.

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.

(AA)
ROUTE 50 EB
BUILD NOTES:
LOG MILE:
51.195 - 51.244
(RT. SHOULDER)
REMOVE EX. GR & REPLACE
TYPE-D MOD. BARRIER 37.5',
MGS GUARDRAIL 137.5',
W/ 1 TRANS. SECTION AND
TYPE A END CRASHWORTHY
END TERMINAL (MASH)

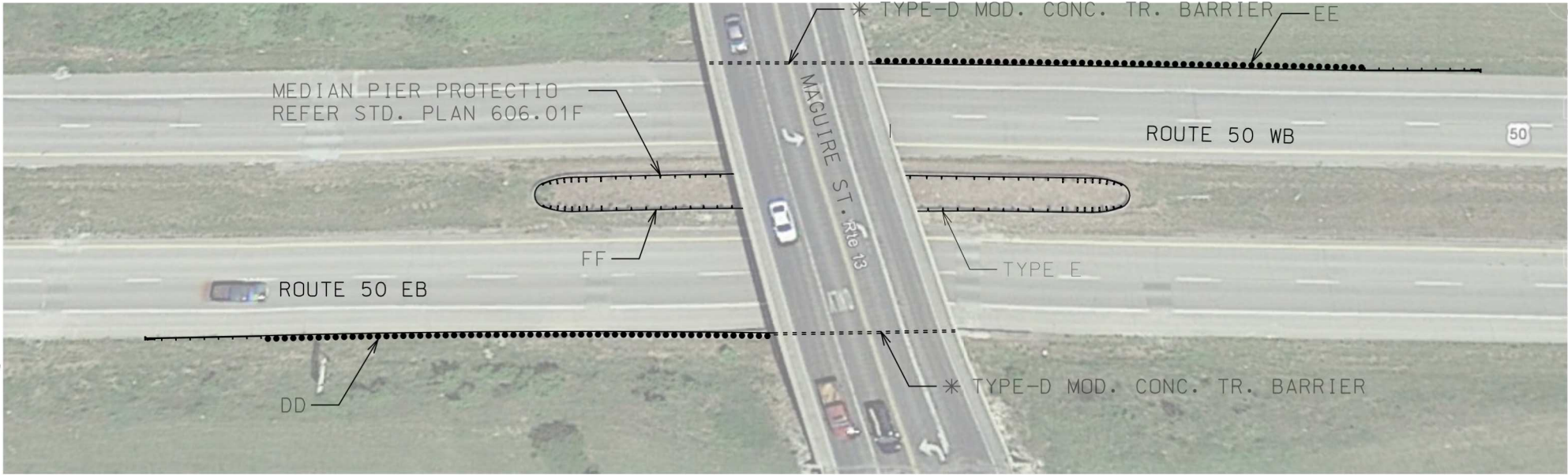


(CC) ROUTE 50
GUARDRAIL BUILD NOTES:
LOG MILE.51.216 TO 51.256 (EB)
(MEDIAN PIER PROTECTION)
REMOVE EX. GR & REPLACE
GUARDRAIL TYPE E: 125' * 2 AND
2 BULLNOSE GR SYSTEM

NOTE:
* REFER TS SHEET 3 OF 3 FOR DETAILS

(BB)
ROUTE 50 WB
BUILD NOTES:
LOG MILE:
210.645 TO 210.695
(RT. SHOULDER)
REMOVE EX. GR & REPLACE
TYPE-D MOD. BARRIER 37.5',
MGS GUARDRAIL 137.5',
W/ 1 TRANS. SECTION AND
TYPE A END CRASHWORTHY
END TERMINAL (MASH)

(DD)
ROUTE 50 EB
BUILD NOTES:
LOG MILE:
51.385 - 51.440
(RT. SHOULDER)
REMOVE EX. GR & REPLACE
TYPE-D MOD. BARRIER 60',
MGS GUARDRAIL 137.5',
W/ 1 TRANS. SECTION AND
TYPE A END CRASHWORTHY
END TERMINAL (MASH)

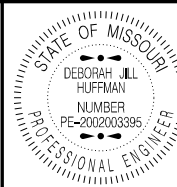


(FF) ROUTE 50
GUARDRAIL BUILD NOTES:
LOG MILE.51.407 - 51.455 (EB)
(MEDIAN PIER PROTECTION)
REMOVE EX. GR & REPLACE
GUARDRAIL TYPE E: 175'* 2 AND
2 BULLNOSE GR SYSTEM

(EE)
ROUTE 50 WB
BUILD NOTES:
LOG MILE:
210.454 - 210.508
(RT. SHOULDER)
REMOVE EX. GR & REPLACE
TYPE-D MOD. BARRIER 60',
MGS GUARDRAIL 137.5',
W/ 1 TRANS. SECTION AND
TYPE A END CRASHWORTHY
END TERMINAL (MASH)

NOT TO SCALE

SPECIAL SHEET
GUARDRAIL AND
MOD. CONC. BARRIER
SHEET 6 OF 10



DATE PREPARED 7/22/2021	
ROUTE 50	STATE MO
DISTRICT KC	SHEET NO. 9
COUNTY JOHNSON	
JOB NO. J3P3064	
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.

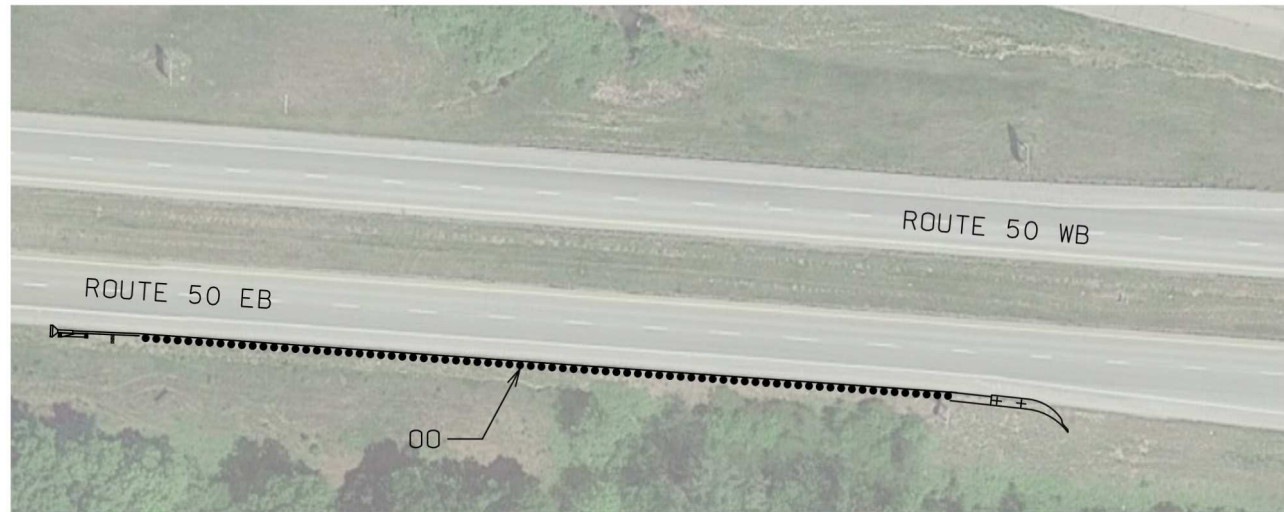


(GG) ROUTE 50 WB, GUARDRAIL BUILD NOTES:
LOG MILE.210.241 TO 210.381(RT. SHLDR.)
REMOVE EX. GR & REPLACE
MGS GUARDRAIL: 662.5',
1 TYPE A CET (MASH) & END ANCHOR

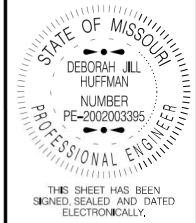


(HH) ROUTE 50 EB
GUARDRAIL BUILD NOTES:
LOG MILE.51.716 TO 51.776
(RT. SHOULDER)
REMOVE EX. GR & REPLACE
MGS GUARDRAIL: 300',
1 TYPE A CET (MASH) & END ANCHOR

(II) ROUTE 50 WB
GUARDRAIL BUILD NOTES:
LOG MILE.210.080 TO 210.186
(RT. SHOULDER)
REMOVE EX. GR(400'), AND REPLACE
AND EXTEND MGS GUARDRAIL: 500'
(EXTEND TOWARDS EAST FROM THE EX. BEG.),
1 TYPE A CET (MASH) & END ANCHOR

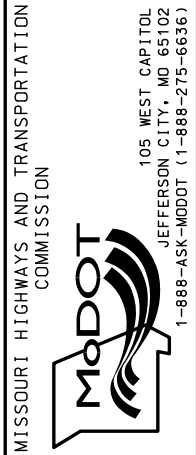


(JJ) ROUTE 50 EB
GUARDRAIL BUILD NOTES:
LOG MILE.51.856 TO 51.957
(RT. SHOULDER)
REMOVE EX. GR & REPLACE
MGS GUARDRAIL: 450',
1 TYPE A CET (MASH) & END ANCHOR

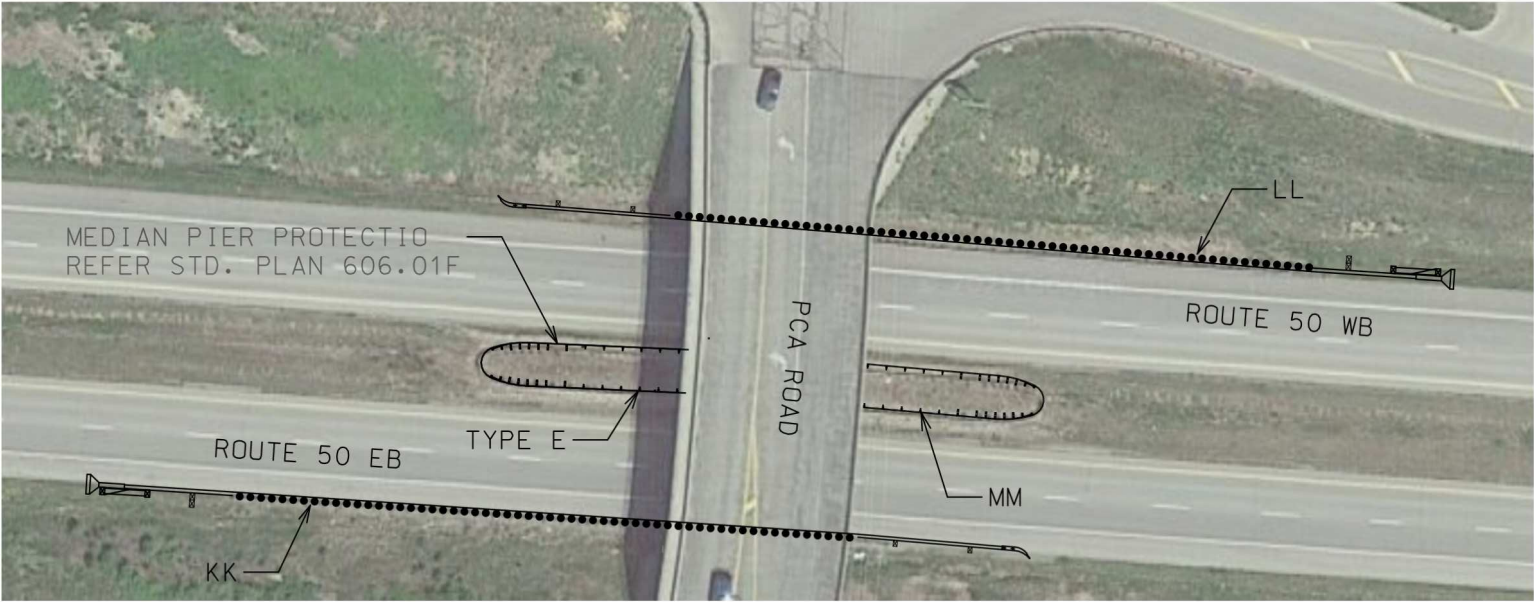


DATE PREPARED 7/22/2021	
ROUTE 50	STATE MO
DISTRICT KC	SHEET NO. 10
COUNTY JOHNSON	
JOB NO. J3P3064	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

DATE	DESCRIPTION



(KK)
ROUTE 50 EB
BUILD NOTES:
LOG MILE:52.292 – 52.340
(RT. SHOULDER)
REMOVE EX. GR & REPLACE
MGS GUARDRAIL 237.5',
W/ 1 TRANS. SECTION AND
TYPE A END CRASHWORTHY
END TERMINAL (MASH) AND
MGS END ANCHOR



(LL)
ROUTE 50 WB
BUILD NOTES:
LOG MILE:209.545 – 209.600
(RT. SHOULDER)
REMOVE EX. GR & REPLACE
MGS GUARDRAIL 225',
W/ 1 TRANS. SECTION AND
TYPE A END CRASHWORTHY
END TERMINAL (MASH)AND
MGS END ANCHOR

(MM) ROUTE 50
GUARDRAIL BUILD NOTES:
LOG MILE.52.310 – 52.350
(MEDIAN PIER PROTECTION)
REMOVE EX. GR & REPLACE
GUARDRAIL TYPE A: 175' * 2 AND
2 BULLNOSE GR SYSTEM

(NN) ROUTE 50 EB
BUILD NOTES:
LOG MILE:52.725 – 52.925
(RT. SHOULDER)
BUILD NEW
MGS GUARDRAIL 987.5'(8' POST, 6'-3" SPACING,
W/ 1 TRANS. SECTION, TYPE A END CRASHWORTHY
END TERMINAL (MASH) AND MGS END ANCHOR



STATE OF MISSOURI

DEBORAH JILL HUFFMAN

NUMBER PE-2002003395

PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED

7/22/2021

ROUTE

50

STATE

MO

DISTRICT

KC

SHEET NO.

11

COUNTY

JOHNSON

JOB NO.

J3P3064

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

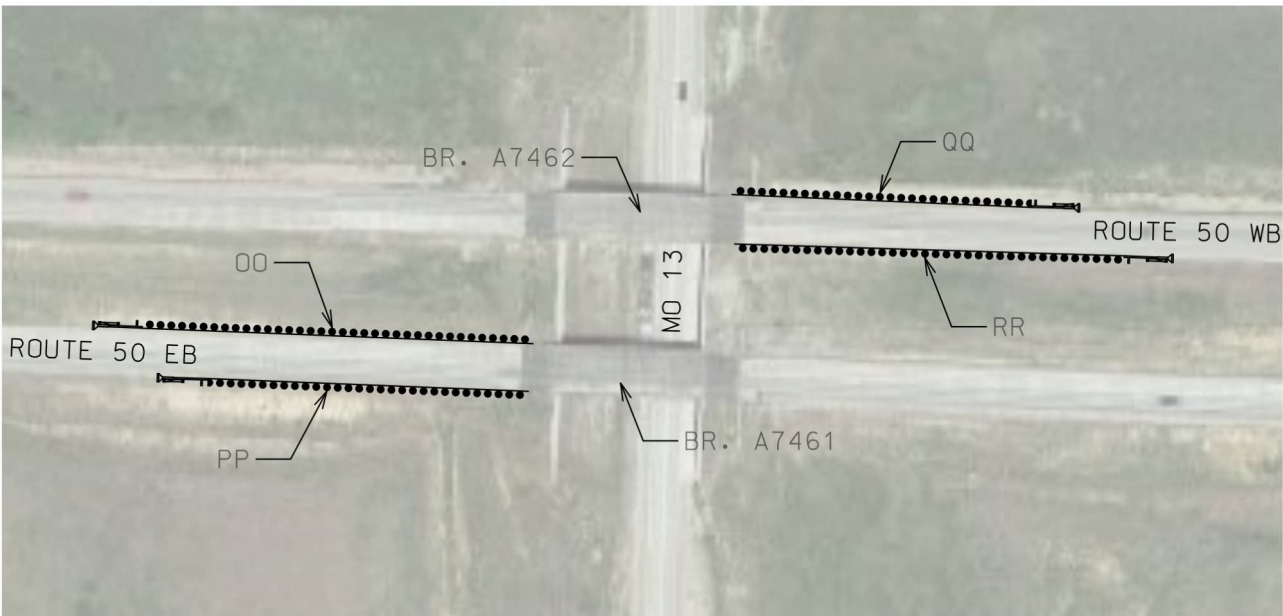
MoDOT

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

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

(OO) GUARDRAIL BUILD NOTES:
ROUTE 50 EB - LT. SHLDR.
54.072 TO 54.143
REMOVE EX. GUARDRAIL
AND REPLACE
1 MGS BR. APPR. TRANS,
(REG./ NO CURB),
WITH 325' MGS GR &
1 TYPE A CET (MASH)

(PP) GUARDRAIL BUILD NOTES:
ROUTE 50 EB - RT. SHLDR.
54.090 TO 54.143
REMOVE EX. GUARDRAIL
AND REPLACE
1 MGS BR. APPR. TRANS,
(REG./ NO CURB),
WITH 225' MGS GR &
1 TYPE A CET (MASH)



(QQ) GUARDRAIL BUILD NOTES:
ROUTE 50 WB - LT. SHLDR.
207.683 TO 207.752
REMOVE EX. GUARDRAIL
AND REPLACE
1 MGS BR. APPR. TRANS,
(REG./ NO CURB),
WITH 325' MGS GR &
1 TYPE A CET (MASH)

(RR) GUARDRAIL BUILD NOTES:
ROUTE 50 WB - RT. SHLDR.
207.703 TO 207.752
REMOVE EX. GUARDRAIL
AND REPLACE
1 MGS BR. APPR. TRANS,
(REG./ NO CURB),
WITH 237.5' MGS GR &
1 TYPE A CET (MASH)



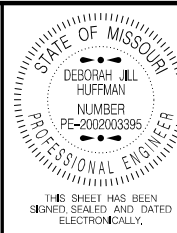
NOTE: WEST OD MO13

NOT TO SCALE



NOTE: EAST OF MO13

SPECIAL SHEET
GUARDRAIL DETAIL
SHEET 9 OF 10



DATE PREPARED 7/22/2021	
ROUTE 50	STATE MO
DISTRICT KC	SHEET NO. 12
COUNTY JOHNSON	
JOB NO. J3P3064	
CONTRACT ID.	

PROJECT NO.
BRIDGE NO.

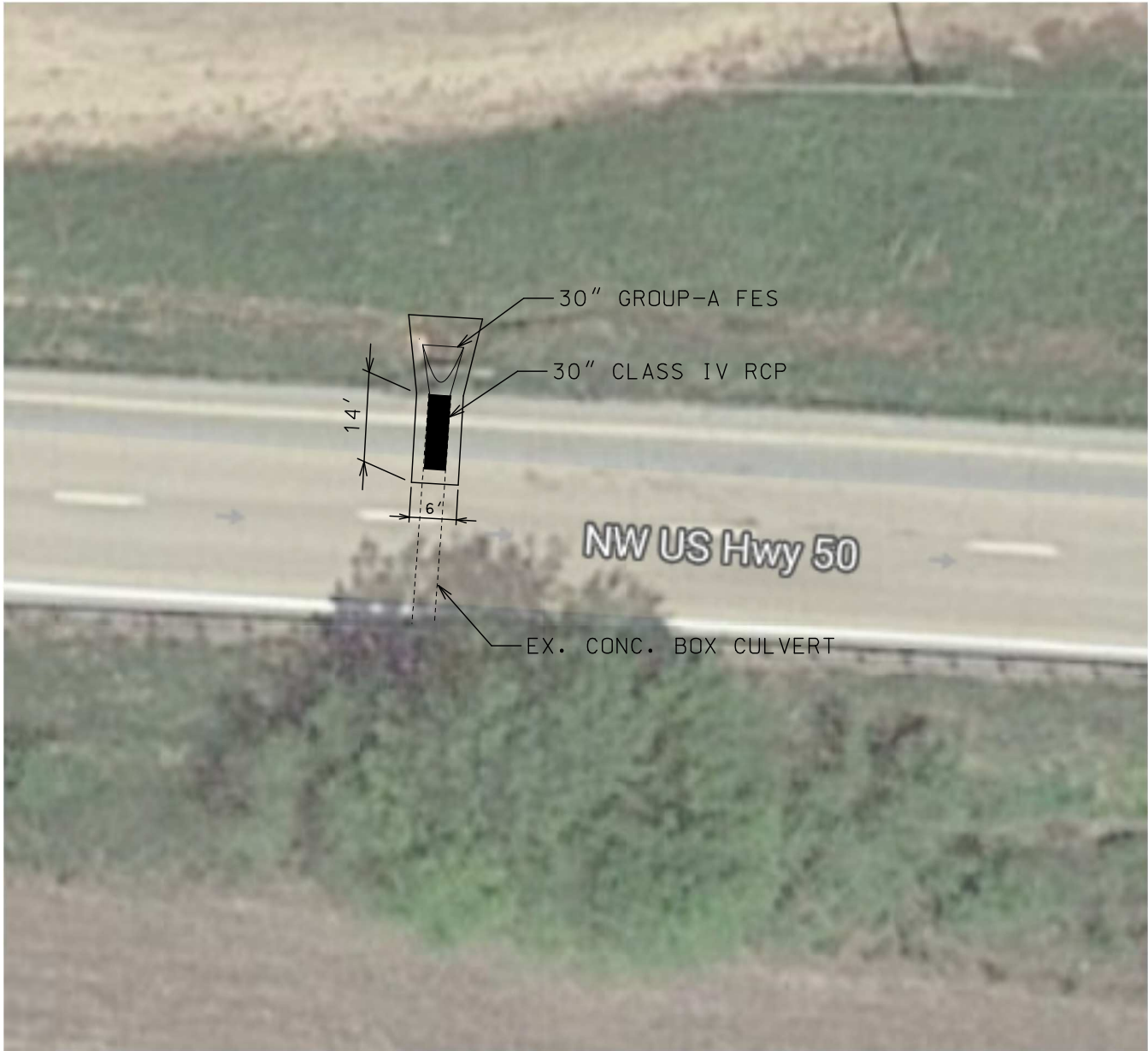
DATE	DESCRIPTION

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.



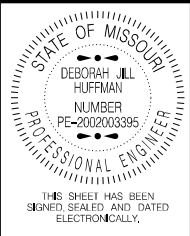
NOT TO SCALE

BUILD NOTES:
ROUTE 50EB, APPROX. LOG MILE: 42.400 LT.
REMOVE 10' OF EX. CULVERT WHERE WALL FAILED
BUILD TYPE C PIPE COLLAR, BUILD 30"x12' TYPE IV RCP,
AND BUILD 1-30" GROUP-A FES
FOLLOW EX. FLOW LINE
GRADE TO DRAIN EXIST, ROADWAY DITCHES (NO DIRECT PAY)
6'X14" PAVEMENT REPLACEMENT PAID FOR AND INCLUDED
IN THE PAVEMENT REPAIR QUANTITIES

NOTE:
ALL PAVEMENT REMOVALS, SAW CUTS, BUILDING MATERIALS,
TEMP. PAVEMENT, ADDITIONAL EQUIPMENT, LABOR,
MATERIALS OR TIME REQUIRED TO BUILD CULVERT
WILL BE CONSIDERED INCIDENTAL WITH NO DIRECT PAY.

APPROXIMATE REMOVAL QUANTITY (FOR INFORMATION ONLY)			
ITEM	QUANTITY	UNIT	COMMENTS
SAW CUTS	35.00	LF	ROUTE 50EB, LOG MILE 42.400
EX. PAVEMENT REMOVAL	9.50	SY	ROUTE 50EB, LOG MILE 42.400
EX. DAMAGED CONC. BOX CULVERT REMOVAL	10.00	LF	ROUTE 50EB, LOG MILE 42.400
CLASS III EXCAVATION	15.50	CY	ROUTE 50EB, LOG MILE 42.400

REFER TO SECTION 726 AND 1026 IN THE
MISSOURI HIGHWAY SPECIFICATIONS AND
STANDARD PLANS 604.40G AND 732.10H
FOR ADDITIONAL INFORMATION



DATE PREPARED 7/22/2021	
ROUTE 50	STATE MO
DISTRICT KC	SHEET NO. 13
COUNTY JOHNSON	
JOB NO. J3P3064	
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.

Traffic Control Legend,
Sign Spacing, Device Spacing, Channelizing Taper Lengths
And Recommended Maximum Speed Reductions

SPEED	SIGN SPACING (ft.)		TAPER LENGTH (ft.)		OPTIONAL	CHANNELIZER SPACING (ft.)	
PERMANENT POSTED SPEED MPH	UNDIVIDED (S)	DIVIDED (S)	SHOULDER (1) (T1)	LANE (2) (T2)	BUFFER LENGTH (ft.) (B)	TAPERS	BUFFER LENGTH (ft.)
0-35	—	200	70	245	280	35	40
40-45	—	500	150	540	400	40	80
50-55	—	1000	185	660	560	50	80
60-70	—	SA-1000	235	840	840	60	120
		SB-1500					
		SC-2640					

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

SPEED	SIGN SPACING (ft.)		TAPER LENGTH (ft.)		OPTIONAL	CHANNELIZER SPACING (ft.)	
PERMANENT POSTED SPEED MPH	UNDIVIDED (S)	DIVIDED (S)	SHOULDER (1) (T1)	LANE (2) (T2)	BUFFER LENGTH (ft.) (B)	TAPERS	BUFFER LENGTH (ft.)
0-35	200	—	70	245	280	35	40
40-45	350	—	150	540	400	40	80
50-55	500	—	185	660	560	50	80
60-70	1000	—	235	840	840	60	120

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

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

** THE SA DIMENSION IS THE DISTANCE FROM THE TRANSITION OR POINT OF RESTRICTION TO THE FIRST SIGN.

THE SB DIMENSION IS THE DISTANCE BETWEEN THE FIRST AND SECOND SIGNS.

THE SC DIMENSION IS THE DISTANCE BETWEEN THE SECOND AND THIRD SIGNS.

(THE "FIRST SIGN" IS THE SIGN IN A THREE-SIGN SERIES THAT IS CLOSEST TO THE TEMPORARY TRAFFIC CONTROL ZONE. THE "THIRD SIGN" IS THE SIGN THAT IS FURTHEST UPSTREAM FROM THE TEMPORARY TRAFFIC CONTROL ZONE)

DETAILS NOTES:

- (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

EPG TABLE 616.12 RECOMMENDED MAXIMUM SPEED REDUCTIONS	
ACTIVITY (I.E. WORKERS, EQUIPMENT OR MATERIAL) LOCATION	RECOMMENDED WORK ZONE SPEED REDUCTION (WHEN APPLICABLE)
10 FT. BEYOND EDGE OF TRAVELWAY TO EDGE OF RIGHT OF WAY	NO SPEED REDUCTION
IN TRAFFIC LANE OR WITHIN 10FT. OF THE TRAFFIC LANE	10 MPH
HEAD-TO-HEAD ON MULTILANE	10 MPH
SPECIAL CIRCUMSTANCES WITHIN A TEMPORARY TRAFFIC CONTROL WORK ZONE MAY WARRANT A LOWER SPEED LIMIT THAN RECOMMENDED ABOVE. ALL SPEED LIMIT REDUCTIONS GREATER THAN 10 MPH SHALL BE DOCUMENTED, SUBMITTED TO AND APPROVED BY THE DISTRICT WORK ZONE COORDINATOR.	

TRAFFIC CONTROL LEGEND

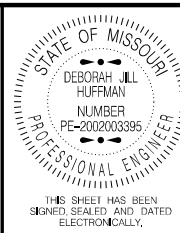
- SIGN (SINGLE SIDED)
- FLAGGER
- CHANNELIZER
- PROTECTIVE VEHICLE WITH WORK SIGN, FLASHING ARROW PANEL AND REAR-MOUNTED IMPACT ATTENUATOR UNIT.
- FLASHING ARROW PANEL
- CHANGEABLE MESSAGE BOARD
- BARRICADE
- TUBULAR MARKERS

LEGEND NOTE:

THE PROTECTIVE VEHICLE SIGN SHALL BE MOUNTED AT A RECOMMENDED HEIGHT OF 48 IN. ABOVE THE ROAD SURFACE.

GENERAL NOTES:

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



DATE PREPARED
7/22/2021

ROUTE
50

STATE
MO

DISTRICT
KC

SHEET NO.
14

COUNTY
JOHNSON

JOB NO.
J3P3064

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.

END OF PROJECT LIMITS; END OF WORK ZONE
TERMINATION AREA, IF LOCATED BEYOND END
OF PROJECT; OR LAST WORK ZONE SIGN, IF
LOCATED OUTSIDE PROJECT LIMITS.

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

WORK ZONE
NO PHONE
ZONE
SPECIAL

500'
(1)

500'
(1)

1

26

1000'
(1)



MULTI-LANE DIVIDED
BEGIN/END OF PROJECT SIGNING
(FOR USE ON ALL PROJECTS)



 **Road
Resurfacing**
FALL 2022

CONST-5-96 (3)

500'
(1)

500'
(1)

500'
(1)

1

26

1000'
(1)

WORK ZONE
NO PHONE
ZONE
SPECIAL

ROAD
WORK
AHEAD  **Rate Our
Work Zone**
modot.org

CONST-7-72 (2)

NOTES:

SIGN G020-1 IS REQUIRED PER EPG 616.6.56.

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

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

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

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

(2) SIGN CONST-7-48 OR CONST-7-72 IS PLACED 500 FEET BEFORE
THE BEGINNING OF PROJECT LIMITS OR THE ROAD WORK AHEAD SIGN
OR ROAD WORK NEXT XX MILES SIGN, IF USED, WHEN THESE SIGNS
ARE LOCATED OUTSIDE THE PROJECT LIMITS.

(3) SIGN CONST-5-96 OR CONST-5-48 IS PLACED IN A VISIBLE AREA
WITHIN THE PROJECT LIMITS PROVIDED ITS PLACEMENT DOES NOT
DISRUPT A SEQUENCE OF SIGNS. IF A VISIBLE LOCATION WITHIN THE
PROJECT IS NOT AVAILABLE, THE SIGN MAY BE PLACED 500 FEET
BEFORE SIGN CONST-7-48 OR CONST-7-72.

(4) THE "RATE OUR WORK ZONE" SIGN IS AVAILABLE IN TWO SIZES
DEPENDING ON ROADWAY CONDITIONS. THE 48 IN. X 24 IN. SIGN
IS USED ON LOW VOLUME ROUTES THAT CARRY 400 AADT OR LESS, ON
PROJECTS THAT HAVE A DURATION OF 4 WEEKS OR LESS OR IN URBAN
AREAS WHERE THERE IS INSUFFICIENT RIGHT OF WAY FOR A SIX FOOT
WIDE SIGN. THE 72 IN. X 36 IN. VERSION OF THE SIGN IS USED IN
ALL OTHER APPLICATIONS. BUT CAN ALSO BE USED IN PLACE OF THE
48 IN. X 24 IN. SIGN IF ADDED EMPHASIS IS DEEMED NECESSARY.

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

WORK ZONE
NO PHONE
ZONE
SPECIAL

WHEN THE "ROAD WORK NEXT
XX MILES" IS NOT USED
THE "NO PHONE ZONE" SIGN
IS TO BE PLACED A MINIMUM
OF 500' BEFORE THE "ROAD
WORK AHEAD" SIGN.

ROAD WORK
NEXT 20 MILES

G020-1

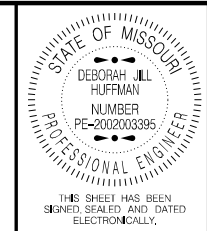
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END
ROAD WORK

G020-2

26

BEGIN/END
TEMPORARY
TRAFFIC CONTROL
SHEET 2 OF 6



DATE PREPARED
7/22/2021

ROUTE 50 STATE MO

DISTRICT KC SHEET NO. 15

COUNTY
JOHNSON

JOB NO.
J3P3064

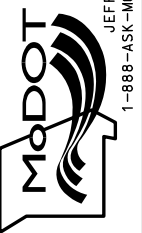
CONTRACT ID.

PROJECT NO.

BRIDGE NO.

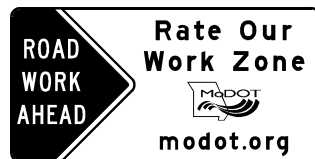
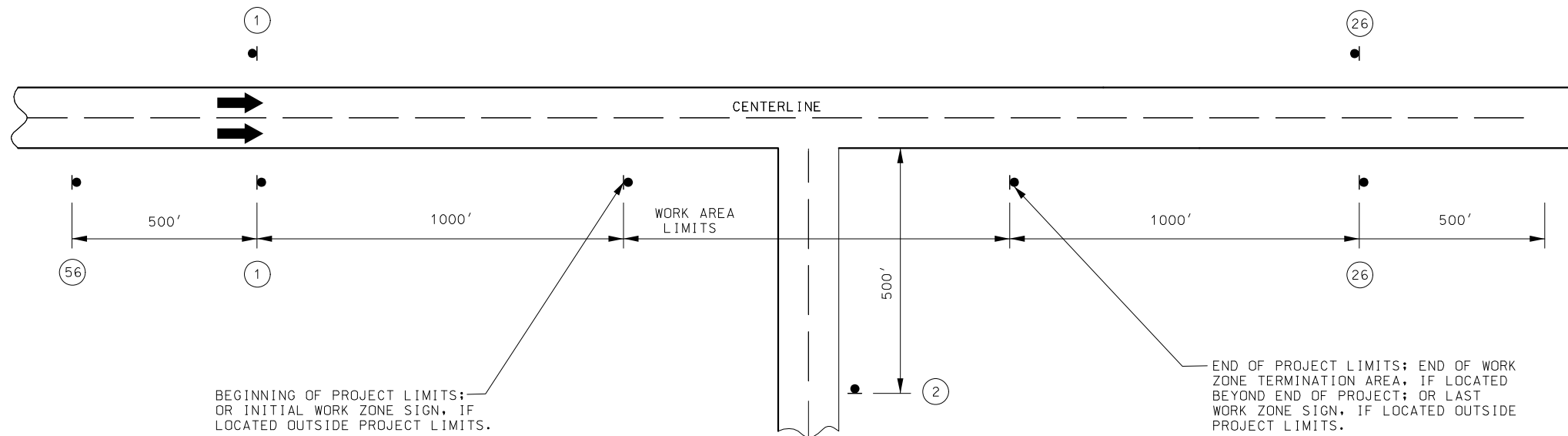
DESCRIPTION	DATE

MISSOURI HIGHWAYS AND TRANSPORTATION
COMMISSION



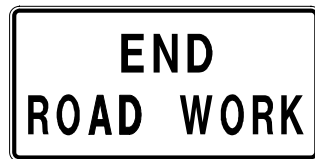
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

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CONST-7-48

56



G020-2a

26



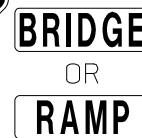
G020-1

1



W020-1

2



NOTES:

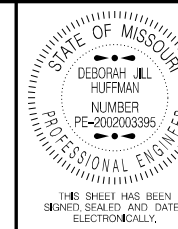
SIGN 1 IS ONLY USED ON PROJECT LENGTHS 2 MILES OR GREATER.

SIGN 26 MAY BE USED ON PROJECTS LESS THAN 2 MILES.

PROVIDE SIGNS IN EACH DIRECTION ON TWO-WAY HIGHWAY.

DISTANCE MAY BE ADJUSTED ACCORDING TO FIELD CONDITIONS.

SIDE ROAD
TEMPORARY
TRAFFIC CONTROL
SHEET 3 OF 6



DATE PREPARED
7/22/2021

ROUTE 50 STATE MO

DISTRICT KC SHEET NO. 16

COUNTY JOHNSON

JOB NO. J3P3064

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

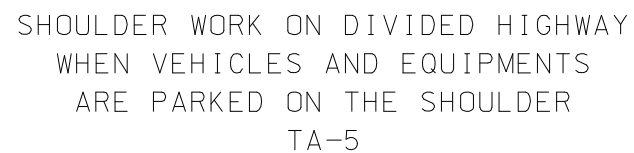
DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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

MoDOT

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



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

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

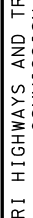
SIGN 2 NOT REQUIRED IF SHOULDER WORK IS LOCATED WITHIN
THE LIMITS OF AN ACTIVITY AREA WHERE ANOTHER
SIGN 2 IS ALREADY USED.

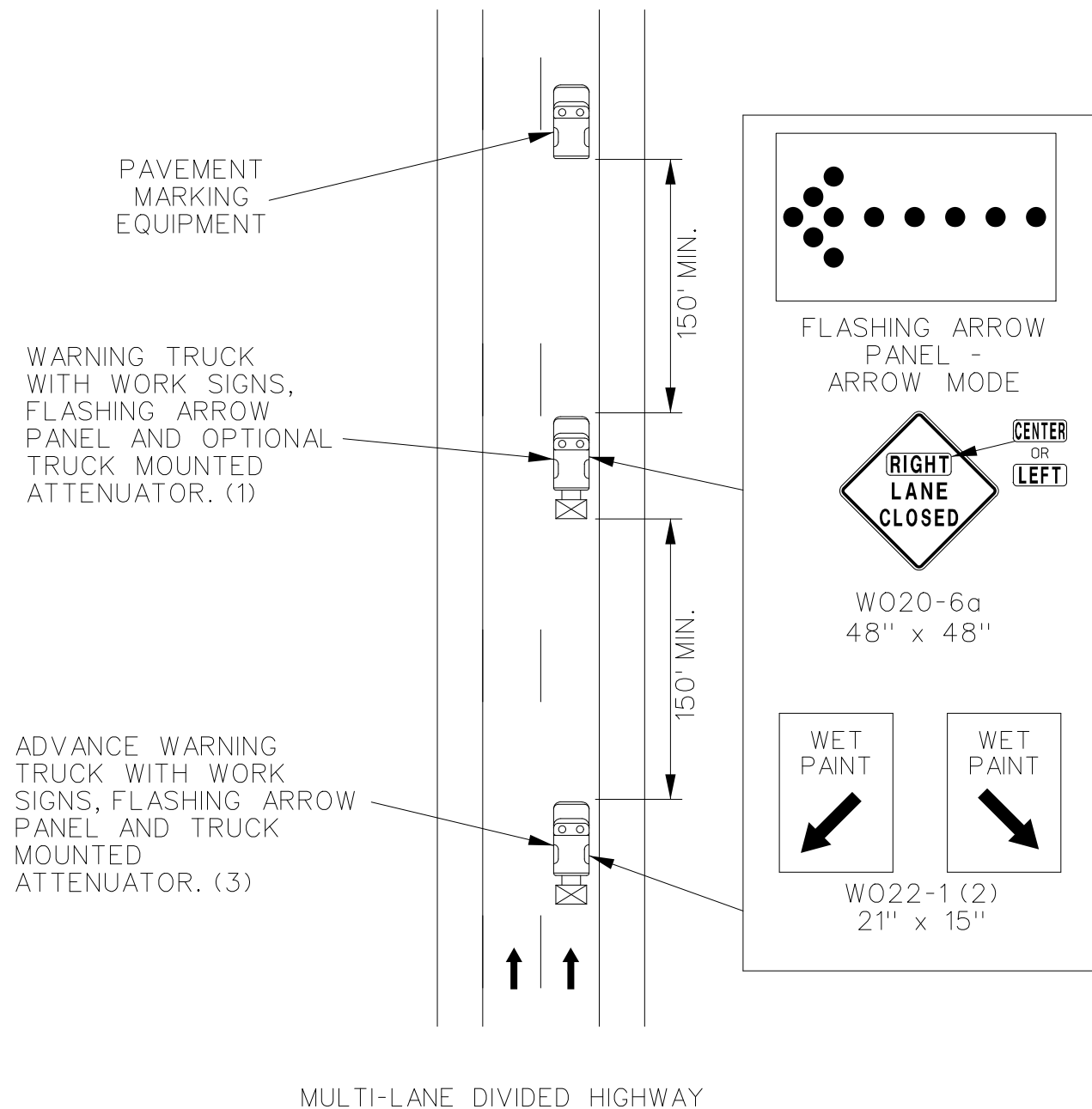
PROVIDE SIGNS ON LEFT AND RIGHT SIDE OF DIVIDED HIGHWAYS.

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

WHEN PAVED SHOULDERS HAVING A WIDTH OF 8 FEET OR MORE ARE CLOSED, AT LEAST ONE ADVANCE WARNING SIGN SHALL BE USED. IN ADDITION, CHANNELIZING DEVICES SHALL BE USED TO CLOSE THE SHOULDER IN ADVANCE TO DELINEATE THE BEGINNING OF THE WORK SPACE AND DIRECT VEHICULAR TRAFFIC TO REMAIN WITHIN THE TRAVELED WAY.

SHOULDER WORK
LANE CLOSURE
TEMPORARY
TRAFFIC CONTROL
SHEET 4 OF 6

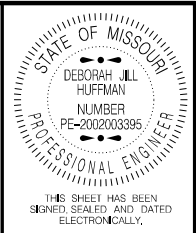
 MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION	105 WEST CAPITOL JEFFERSON CITY, MO 65102 1-888-ASK-MODOT (1-888-275-6636)	
	DATE	DESCRIPTION
BRIDGE NO.		
PROJECT NO.		
CONTRACT ID.		
COUNTY JOHNSON		
JOB NO. J3P3064		
DISTRICT KC	SHEET NO. 17	
ROUTE 50	STATE MO	
DATE PREPARED 7/22/2021		
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY,		
		



NOTES:

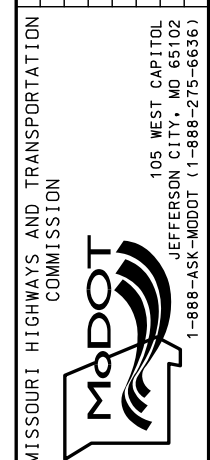
- ALL SIGNS HAVE TYPE 3 FLUORESCENT ORANGE RETROFLECTIVE SHEETING.
- (1). TRUCK IS OPTIONAL ON TWO-LANE UNDIVIDED HIGHWAYS IF SIGNING AND ARROW BOARD IS MOUNTED ON THE PAVEMENT MARKING EQUIPMENT.
- (2). WET PAINT SIGNS ARE INSTALLED TO INDICATE THE SIDE IN WHICH THE PAVEMENT MARKING MATERIAL IS BEING 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 TRUCK POINT OF THE PAVEMENT MARKING MATERIAL OR SPACING SHOWN, WHICHEVER IS GREATER.

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



DATE PREPARED 7/22/2021	
ROUTE 50	STATE MO
DISTRICT KC	SHEET NO. 19
COUNTY JOHNSON	
JOB NO. J3P3064	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

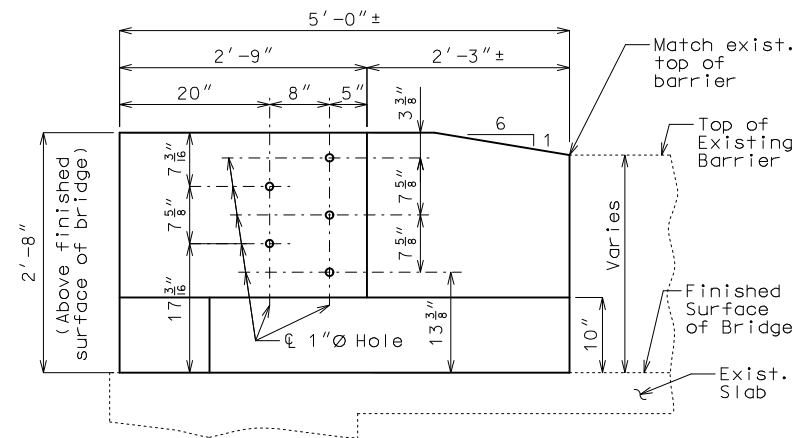
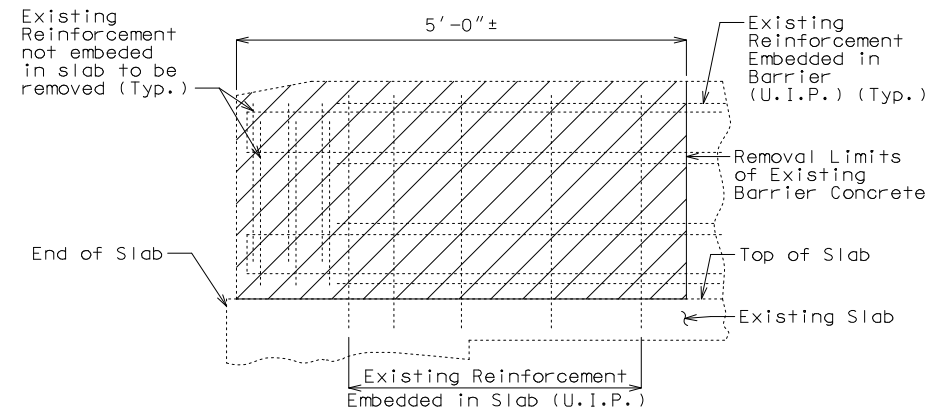
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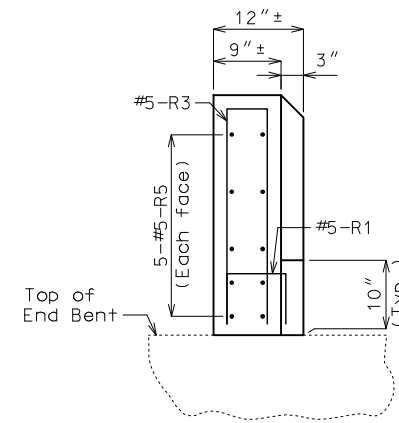
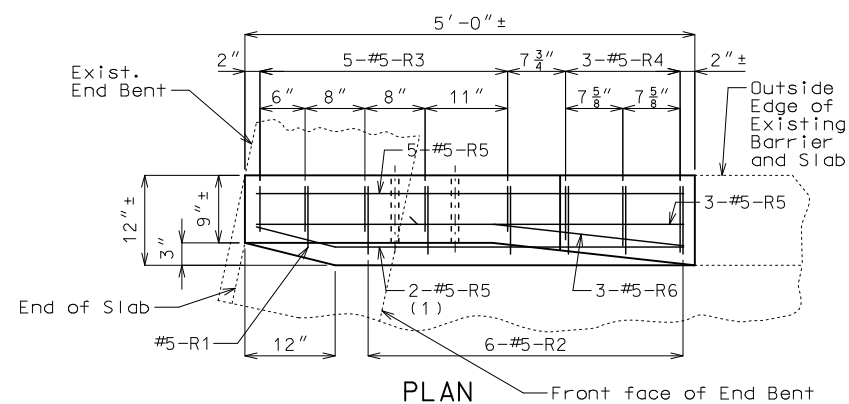
IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

REV.

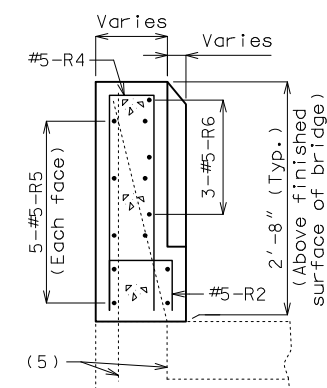
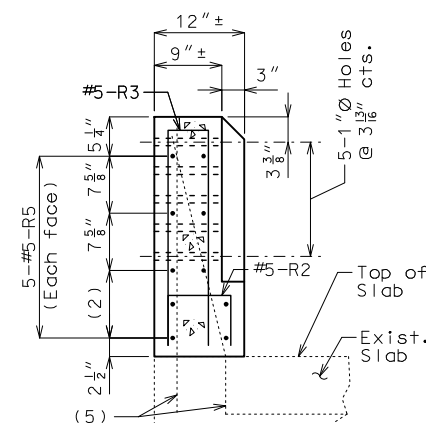
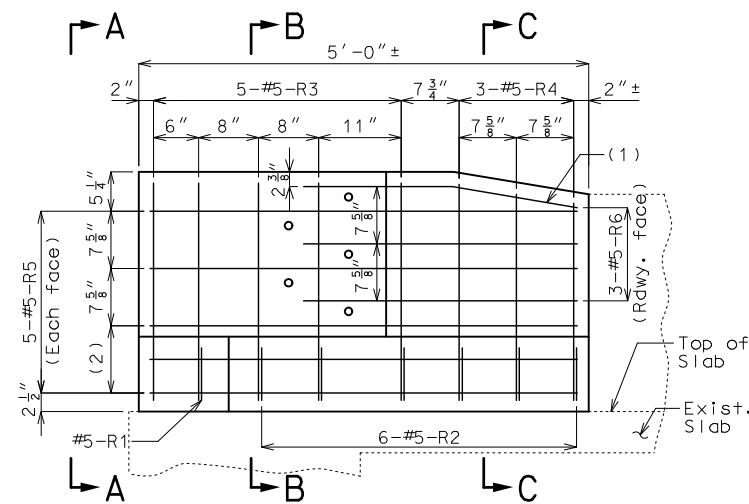
U.I.P. & REHAB. EXISTING (80') SIMPLE PRESTRESSED CONCRETE I-GIRDER SPAN (SKEW 15° LA)



Estimated Quantities	
Item	Total
Barrier End Modification	4



- (1) Bend in field.
- (2) 2 Spa. @ $4\frac{1}{2}"$
- (3) Existing reinforcement
not shown for clarity.
- (4) Existing longitudinal
reinforcement not
shown for clarity.
- (5) Existing reinforcement
embedded in slab (U.I.P.)
(Bend in field as needed)
(Typ.)



General Notes:

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

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

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

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

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

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

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

All reinforcement in barrier end modification shall be epoxy coated.

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

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

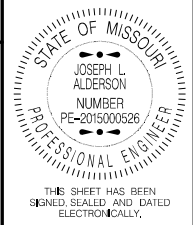
Cost of removing existing barrier concrete, and cost of furnishing and installing new concrete, new reinforcing steel, and any other work incidental to the barrier end modification, complete in place, will be considered completely covered by the contract unit price for Barrier End Modification.

Two-inch curb not shown for clarity.

Seal joint between barrier modification and two-inch curb with 3/4" joint filler in accordance with Sec 717.

REPAIRS TO BRIDGE:
ROUTE 50 WB OVER BUTCHERS CREEK

ROUTE 50 WB FROM ROUTE 58 TO ROUTE M
ABOUT 2.0 MILES NORTHWEST OF ROUTE 58
STA. 100+11.46± (MATCH EXISTING)



DATE PREPARED
7/26/2021

ROUTE 50	STATE MO
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DISTRICT BR	SHEET NO. 1
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COUNTY
JOHNSON

JOB NO.
J3P3064

CONTRACT ID.

PROJECT NO.

BRIDGE NO.
B02701

[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.

