MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

PLANS FOR PROPOSED STATE HIGHWAY

HOWARD COUNTY

T49N - T51N : R15W - R17W

CENTRAL DISTRICT
HOWARD CO.

DESIGN DESIGNATION

MO 5

DESCRIPTION: RURAL
A.A.D.T. - 2024 = 2091
A.A.D.T. - 2044 = 2310
T = 10.54%
V = 55 M.P.H.
PEAK HOUR = 9.58%
DIRECTIONAL DISTRUBUTION = 50.5%/49.5% (N/S)
FUNCTIONAL CLASSIFICATION- MINOR ARTERIAL

DESCRIPTION: FAYETTE (RTE. FF TO RTE. DD)
A.A.D.T. - 2024 = 4027
A.A.D.T. - 2044 = 4449
T = 8.15%
V = 40 M.P.H.
PEAK HOUR = 10.06%
DIRECTIONAL DISTRUBUTION = 49.5%/50.5% (N/S)
FUNCTIONAL CLASSIFICATION- MINOR ARTERIAL

DESCRIPTION: BOONEVILLE (S/O RTE. P)
A.A.D.T. - 2024 = 4485
A.A.D.T. - 2044 = 4955
T = 8.61%
V = 55 M.P.H.
PEAK HOUR = 8.94%
DIRECTIONAL DISTRUBUTION = 50.1%/49.9% (N/S)
FUNCTIONAL CLASSIFICATION- MINOR ARTERIAL

MO 240

DESCRIPTION: FAYETTE (N/O MO 124)
A.A.D.T. - 2024 = 6010
A.A.D.T. - 2044 = 6641
T = 10.54%
V = 25 M.P.H.
PEAK HOUR = 11.52%
DIRECTIONAL DISTRUBUTION = 50.4%/49.6% (N/S)
FUNCTIONAL CLASSIFICATION- MINOR ARTERIAL

DESCRIPTION: RURAL (S/O MO 124)
A.A.D.T. - 2024 = 2894
A.A.D.T. - 2044 = 3198
T = 4.30%
V = 55 M.P.H.
PEAK HOUR = 11.17%
DIRECTIONAL DISTRUBUTION = 50.5%/49.5% (N/S)
FUNCTIONAL CLASSIFICATION- MINOR ARTERIAL

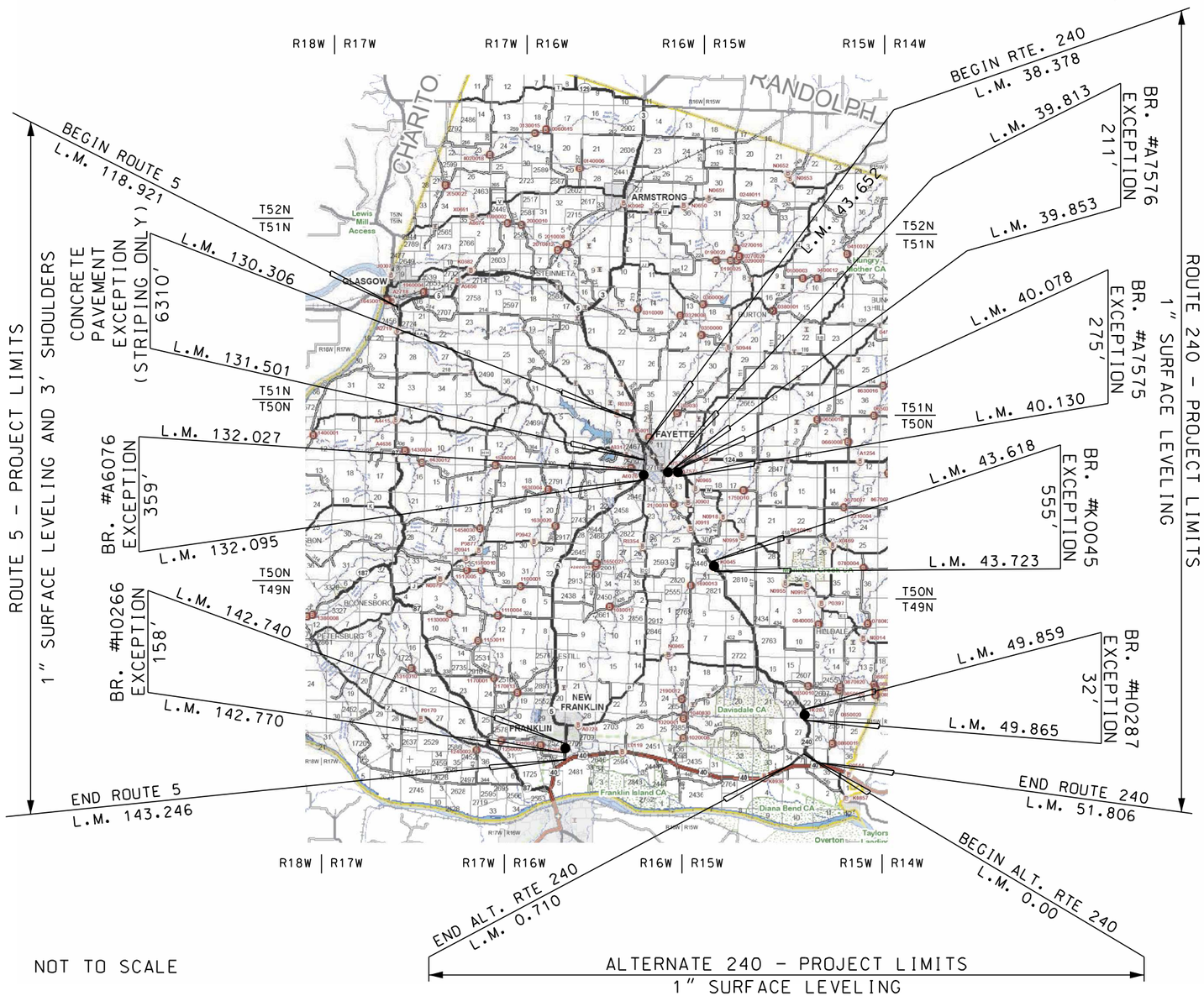
NO RIGHT OF WAY REQUIRED

CONVENTIONAL SYMBOLS

(USED IN PLANS)

	EXISTING	NEW
BUILDINGS AND STRUCTURES		
GUARD RAIL		
CONCRETE RIGHT-OF-WAY MARKER		
STEEL RIGHT-OF-WAY MARKER		
LOCATION SURVEY MARKER		
UTILITIES		
FIBER OPTICS	—FO—	—FO—
OVERHEAD TELEPHONE	—O—	—●—
UNDERGROUND TELEPHONE	—T—	—T—
OVERHEAD POWER	—□—	—■—
UNDERGROUND POWER	—P—	—P—
GAS	—G—	—G—
WATER	—W—	—W—
MANHOLE	SAN	
FIRE HYDRANT	HYD	
WATER VALVE	WV	
WATER METER	WM	
DROP INLET	DI	
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 KNOW 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 WARRENTY AS TO THE COMPLETENESS, ACCURACY, OR SUITABILITY OF THE INFORMATION FOR ANY USE. RELIANCE UPON THIS INFORMATION IS DONE AT THE RISK AND THE REPSPONSIBILITY OF THE CONTRACTOR TO VERIFY THE EXISTANCE, LOCATION, AND STATUS OF THE FACILITY. SUCH VERIFICAITON INCLUDES DIRECT CONTACT WITH THE LISTED UTILITIES.

INDEX OF SHEETS

LENGTH OF PROJECT

ROUTE 5

BEGINNING OF PROJECT	LOG MILE	118.921 (SB)
END OF PROJECT	LOG MILE	143.246 (SB)
APPARENT LENGTH		24.325 MILES
EQUATIONS AND EXCEPTIONS:		
CONCRETE PAVEMENT EXCEPTION		-1.195 MILES
BRIDGE A6076 EXCEPTION		-0.068 MILES
BRIDGE H0266 EXCEPTION		-0.030 MILES

ROUTE 240

BEGINNING OF PROJECT	LOG MILE	38.378 (EB)
END OF PROJECT	LOG MILE	51.806 (EB)
APPARENT LENGTH		13.428 MILES
EQUATIONS AND EXCEPTIONS:		
BRIDGE A7576 EXCEPTION		-0.040 MILES
BRIDGE A7575 EXCEPTION		-0.052 MILES
BRIDGE K0045 EXCEPTION		-0.105 MILES
BRIDGE H0287 EXCEPTION		-0.006 MILES

ROUTE 240 ALTERNATE

BEGINNING OF PROJECT	LOG MILE	0.000 (WB)
END OF PROJECT	LOG MILE	0.710 (WB)
APPARENT LENGTH		0.710 MILES
EQUATIONS AND EXCEPTIONS:		NONE

TOTAL CORRECTIONS	-1.496	MILES
NET LENGTH OF PROJECT	36.967	MILES
STATE LENGTH	36.967	MILES

STATE OF MISSOURI
CURTIS D. SCHENK
NUMBER
PE-2019029937
REGISTERED PROFESSIONAL ENGINEER

DATE PREPARED	7/28/2023
ROUTE	5/240
STATE	MO
DISTRICT	CD
SHEET NO.	1
COUNTY	HOWARD
JOB NO.	J5P3517
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)

MISSOURI STATE CERTIFICATE OF AUTHORITY NO. 000866
KLINGNER & ASSOCIATES, P.C.
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516 North 24th Street
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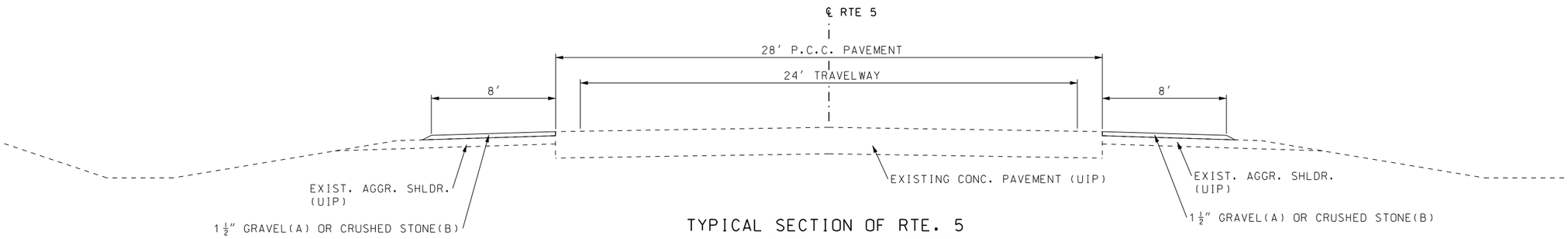
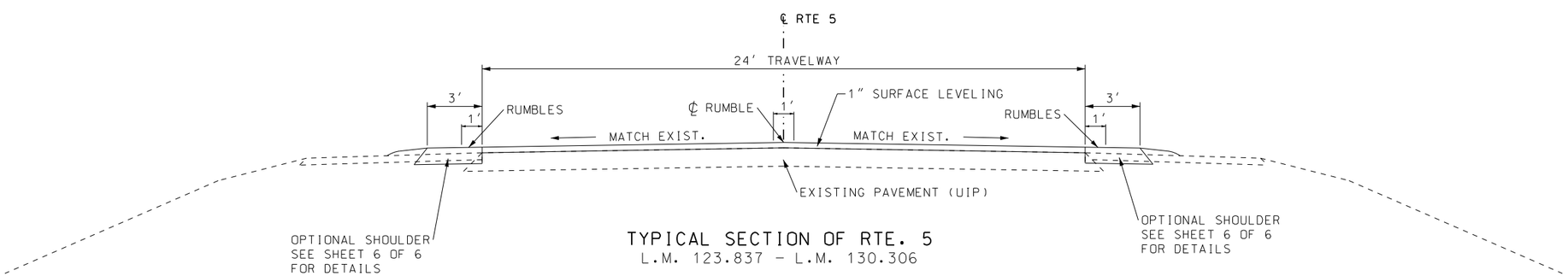
Mount Vernon, IL Centerville, IA



TYPICAL SECTION OF RTE. 5
L.M. 118.921 - L.M. 123.837



TYPICAL SECTION OF RTE. 5
L.M. 123.837 - L.M. 130.306

OPTIONAL SHOULDERS: LT. - L.M. 123.837 TO L.M. 130.133
RT. - L.M. 123.837 TO L.M. 130.140

℄ RUMBLE: L.M. 123.837 TO 130.171 (FAYETTE CITY LIMITS)
EDGE LINE RUMBLES: LT./RT. - L.M. 123.837 TO 130.171 (FAYETTE CITY LIMITS)

TYPICAL SECTION
SHEET 1 OF 6

NOT TO SCALE

ROUTE 5
SHEET 1 OF 3

STATE OF MISSOURI
CURTIS D. SCHENK
NUMBER
PE-2019029937
REGISTERED PROFESSIONAL ENGINEER

DATE PREPARED	7/28/2023
ROUTE	5/240
STATE	MO
DISTRICT	CD
SHEET NO.	2
COUNTY	HOWARD
JOB NO.	J5P3517
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

DATE	DESCRIPTION

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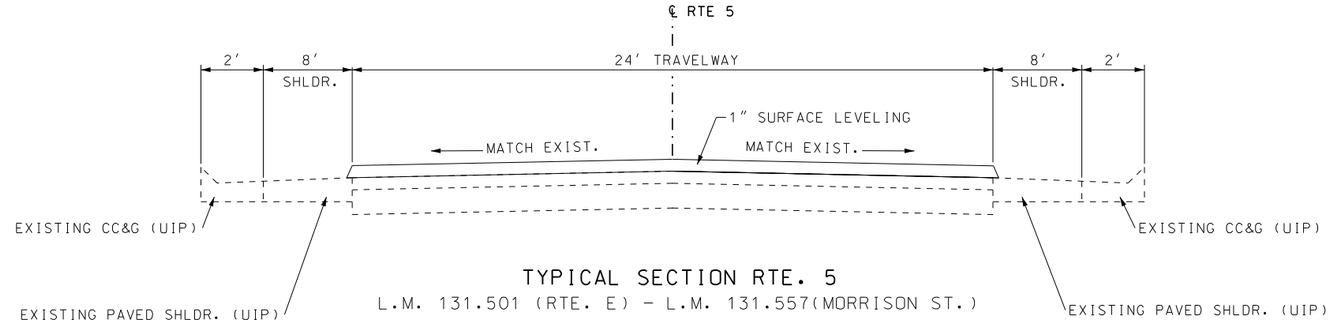
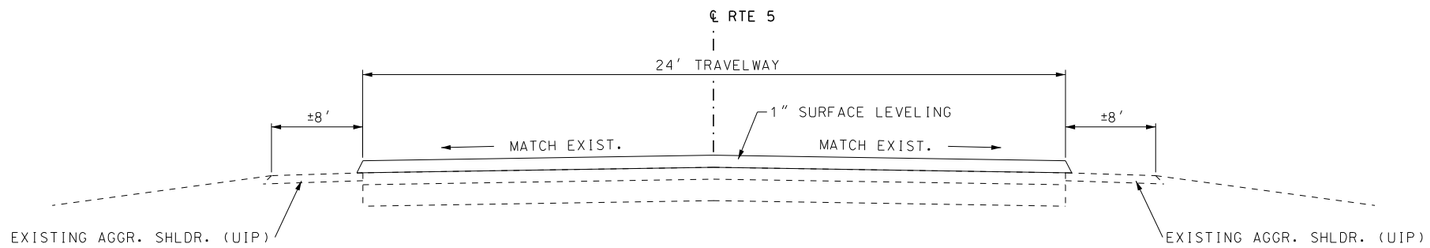


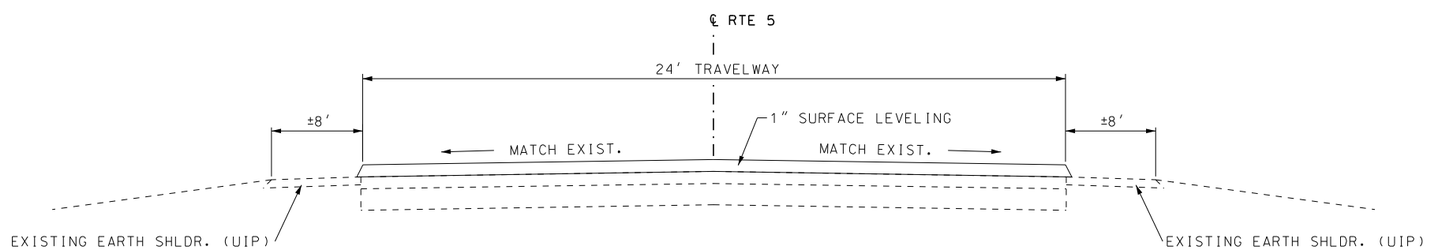
TYPICAL SECTION RTE. 5

L.M. 131.501 (RTE. E) - L.M. 131.557(MORRISON ST.)



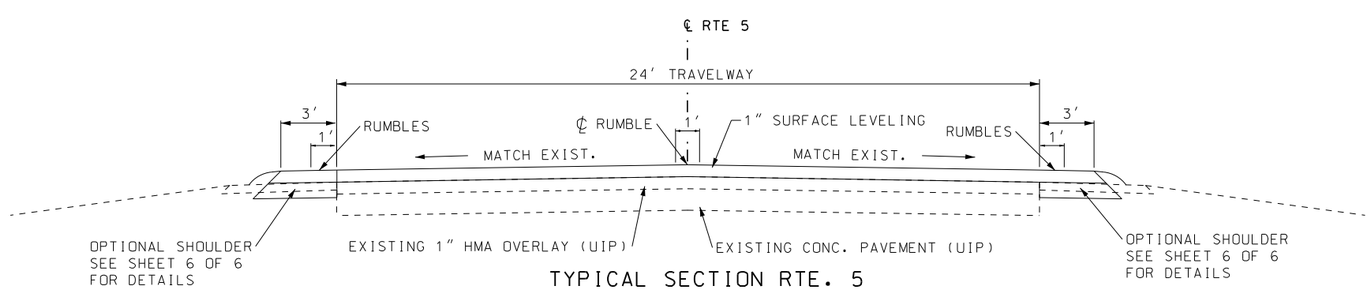
TYPICAL SECTION RTE. 5

L.M. 131.557 (MORRISON ST.) - L.M. 131.728 (FOREST ST.)



TYPICAL SECTION RTE. 5

L.M. 131.728 (FOREST ST.) - L.M. 131.929 (FAYETTE CITY LIMIT)



TYPICAL SECTION RTE. 5

L.M. 131.929 (FAYETTE CITY LIMIT) - L.M. 132.027 (BRIDGE #A6076)

OPTIONAL SHOULDERS: LT. - L.M. 131.929 TO L.M. 132.027
RT. - L.M. 131.929 TO L.M. 132.027

℄ RUMBLE: L.M. 131.929 TO L.M. 132.027

EDGE LINE RUMBLE: LT. - L.M. 131.929 TO L.M. 132.027
RT. - L.M. 131.929 TO L.M. 132.027

BRIDGE #A6076 EXCEPT.: L.M. 132.027 - L.M. 132.095

NOT TO SCALE

TYPICAL SECTION
SHEET 2 OF 6

ROUTE 5
SHEET 2 OF 3

STATE OF MISSOURI
CURTIS D. SCHENK
NUMBER PE-2019029937
REGISTERED PROFESSIONAL ENGINEER

DATE PREPARED	7/28/2023
ROUTE	5/240
STATE	MO
DISTRICT	CD
SHEET NO.	2
COUNTY	HOWARD
JOB NO.	J5P3517
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

DATE	DESCRIPTION

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MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
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Hannibal, MO Bardstown, KY
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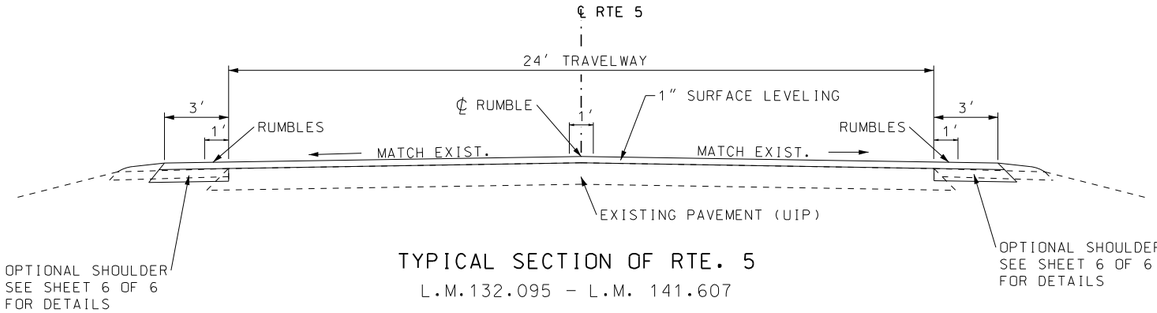
Bowling Green, MO Springfield, IL



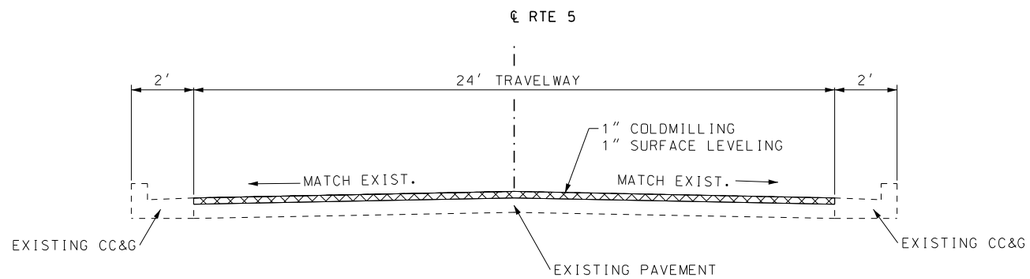
TYPICAL SECTION OF RTE. 5

L.M.132.095 - L.M. 141.607

OPTIONAL SHOULDER: LT./RT. - L.M. 132.095 TO L.M. 141.110 (NEW FRANKLIN CITY LIMIT)

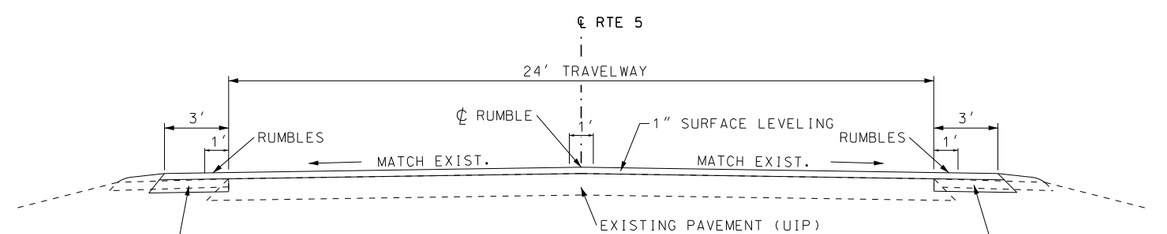
℄ RUMBLE: L.M. 132.095 TO 141.110 (NEW FRANKLIN CITY LIMIT)

EDGE LINE RUMBLES: LT./RT. - L.M. 132.095 TO 141.110 (NEW FRANKLIN CITY LIMIT)



TYPICAL SECTION OF RTE. 5

L.M. 141.607 - L.M. 142.503



TYPICAL SECTION OF RTE. 5

L.M. 142.503 - L.M. 142.740
L.M. 142.770 - L.M. 143.246

BRIDGE #H0266 EXCEPT.: L.M. 142.740 - L.M. 142.770

OPTIONAL SHOULDERS: LT./RT. - L.M. 142.503 TO L.M. 142.740
LT./RT. - L.M. 142.770 TO L.M. 143.246

℄ RUMBLE: L.M. 142.503 TO L.M. 142.740
L.M. 142.770 TO L.M. 143.246

EDGE LINE RUMBLES: LT./RT. - L.M. 142.503 TO L.M. 142.740
LT./RT. - L.M. 142.770 TO L.M. 143.246

NOT TO SCALE

TYPICAL SECTION
SHEET 3 OF 6

ROUTE 5
SHEET 3 OF 3

STATE OF MISSOURI
CURTIS D. SCHENK
NUMBER
PE-2019029937
REGISTERED PROFESSIONAL ENGINEER

DATE PREPARED	
7/28/2023	
ROUTE	STATE
5/240	MO
DISTRICT	SHEET NO.
CD	2
COUNTY	
HOWARD	
JOB NO.	
J5P3517	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

DATE	DESCRIPTION

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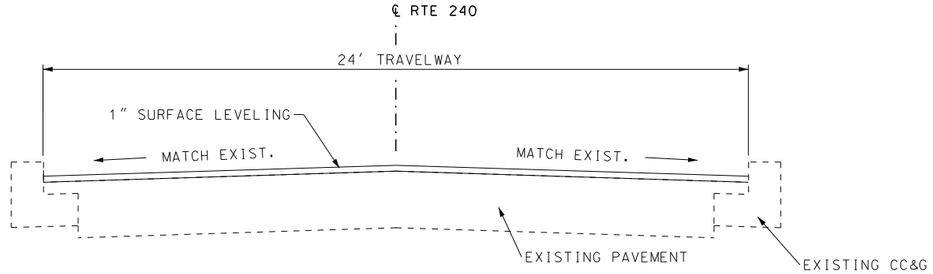
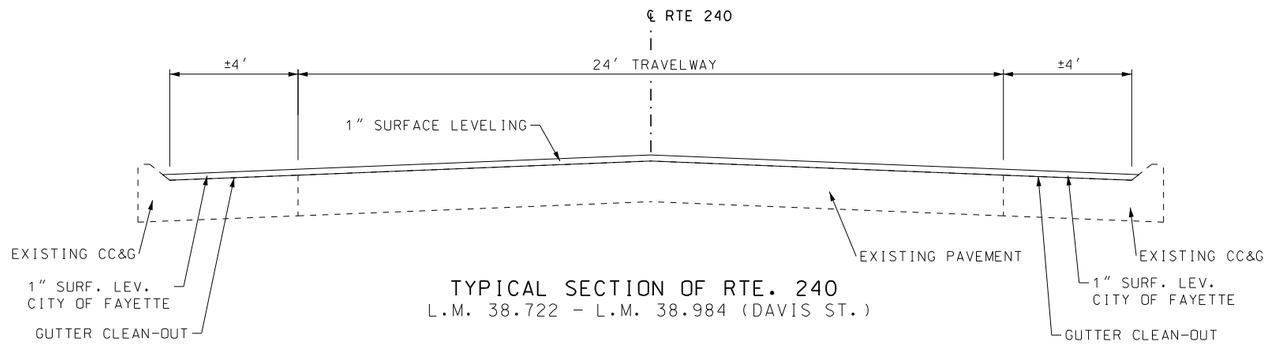


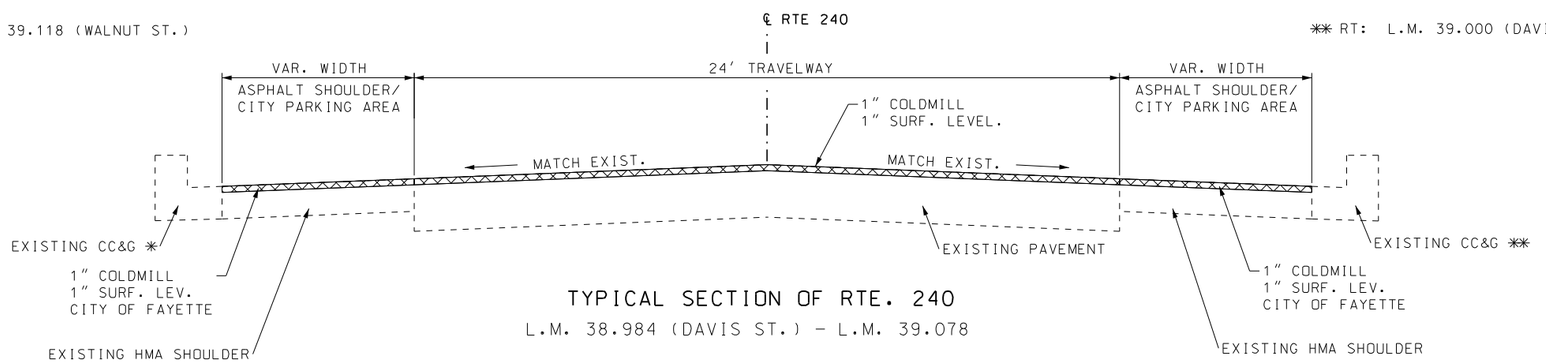
TYPICAL SECTION OF RTE. 240
L.M. 38.378 - L.M. 38.722



TYPICAL SECTION OF RTE. 240
L.M. 38.722 - L.M. 38.984 (DAVIS ST.)

✳ LT: L.M. 39.000 (DAVIS ST.) TO L.M. 39.118 (WALNUT ST.)

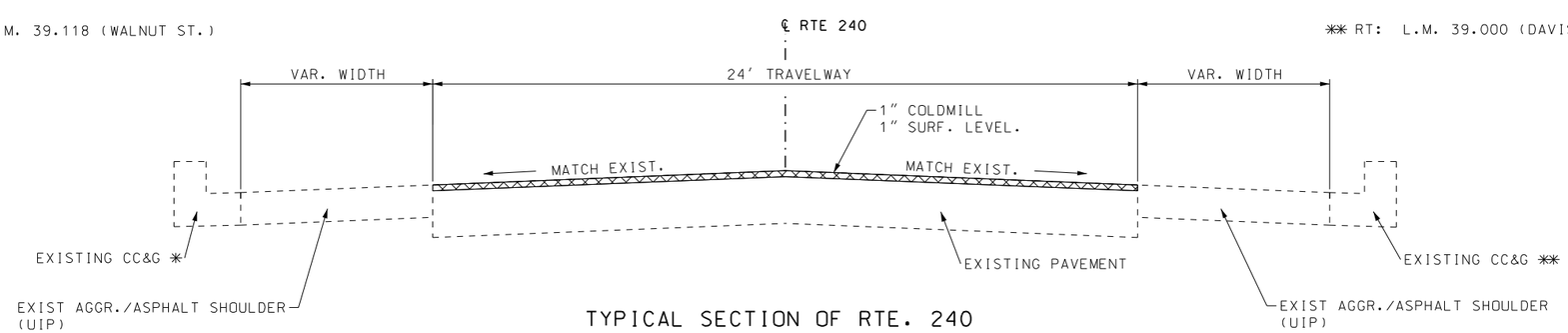
✳✳ RT: L.M. 39.000 (DAVIS ST.) TO L.M. 39.178 (HACKBERRY ST.)



TYPICAL SECTION OF RTE. 240
L.M. 38.984 (DAVIS ST.) - L.M. 39.078

✳ LT: L.M. 39.000 (DAVIS ST.) TO L.M. 39.118 (WALNUT ST.)

✳✳ RT: L.M. 39.000 (DAVIS ST.) TO L.M. 39.178 (HACKBERRY ST.)



TYPICAL SECTION OF RTE. 240
L.M. 39.078 - L.M. 39.437

NOT TO SCALE

TYPICAL SECTION
SHEET 4 OF 6

ROUTE 240
SHEET 1 OF 2

STATE OF MISSOURI
CURTIS D. SCHENK
NUMBER
PE-2019029937
REGISTERED PROFESSIONAL ENGINEER

DATE PREPARED	7/28/2023
ROUTE	5/240
STATE	MO
DISTRICT	CD
SHEET NO.	2
COUNTY	HOWARD
JOB NO.	J5P3517
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

DATE	DESCRIPTION

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Designers Engineers A.E.

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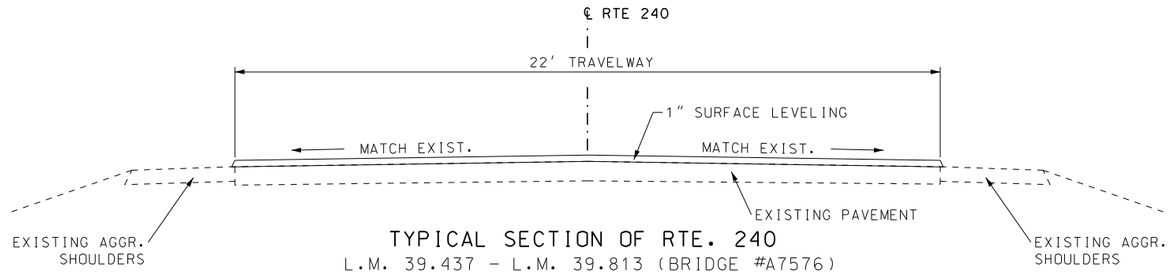
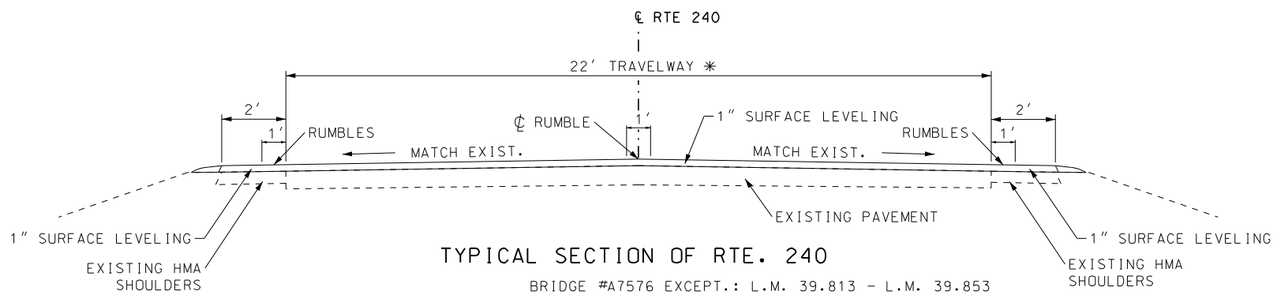


TYPICAL SECTION OF RTE. 240

L.M. 39.437 – L.M. 39.813 (BRIDGE #A7576)

BRIDGE # A7576 EXCEPT.: L.M. 39.813 – L.M. 39.853



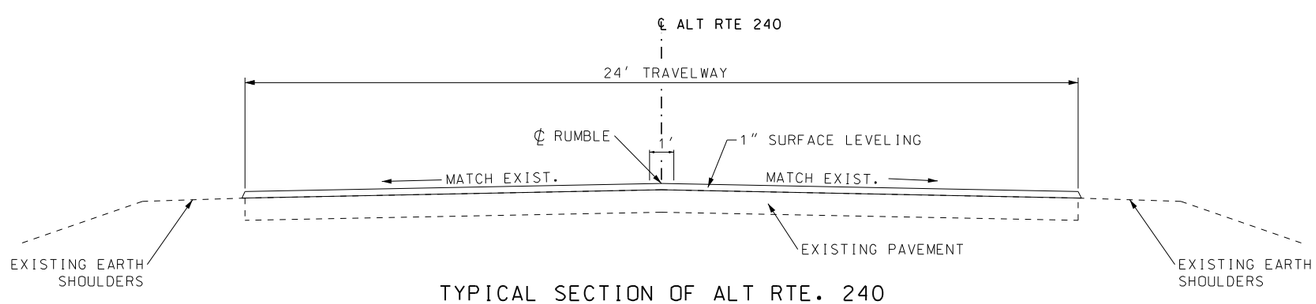
TYPICAL SECTION OF RTE. 240

BRIDGE #A7576 EXCEPT.: L.M. 39.813 – L.M. 39.853
L.M. 39.853 – L.M. 40.078
BRIDGE #A7575 EXCEPT.: L.M. 40.078 – L.M. 40.130
L.M. 40.130 – L.M. 43.618
BRIDGE #K0045 EXCEPT.: L.M. 43.618 – L.M. 43.723
L.M. 43.723 – L.M. 49.859
BRIDGE #H0287 EXCEPT.: L.M. 49.859 – L.M. 49.865
L.M. 49.865 – L.M. 51.806

℄ RUMBLE: L.M. 40.216 TO L.M. 43.618
L.M. 43.723 TO L.M. 49.859
L.M. 49.865 TO L.M. 51.806

EDGE LINE RUMBLES: LT./RT. – L.M. 40.130 TO L.M. 43.618
LT./RT. – L.M. 43.723 TO L.M. 49.859
LT./RT. – L.M. 49.865 TO L.M. 51.806

✳ WIDTH VARIES FROM 26′ AT L.M. 40.016 TO 36′ AT L.M. 40.078
WIDTH VARIES FROM 26′ AT L.M. 40.130 TO 36′ AT L.M. 40.218



TYPICAL SECTION OF ALT RTE. 240

L.M. 0.000 – L.M. 0.710

℄ RUMBLE: L.M. 0.000 TO L.M. 0.710

NOT TO SCALE

TYPICAL SECTION
SHEET 5 OF 6

ROUTE 240
SHEET 2 OF 2

STATE OF MISSOURI
CURTIS D. SCHENK
NUMBER PE-2019029937
REGISTERED PROFESSIONAL ENGINEER

DATE PREPARED	7/28/2023
ROUTE	5/240
STATE	MO
DISTRICT	CD
SHEET NO.	2
COUNTY	HOWARD
JOB NO.	J5P3517
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

DATE	DESCRIPTION

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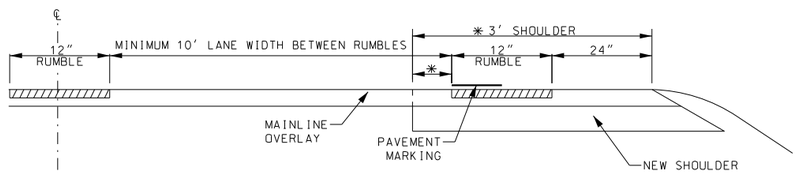
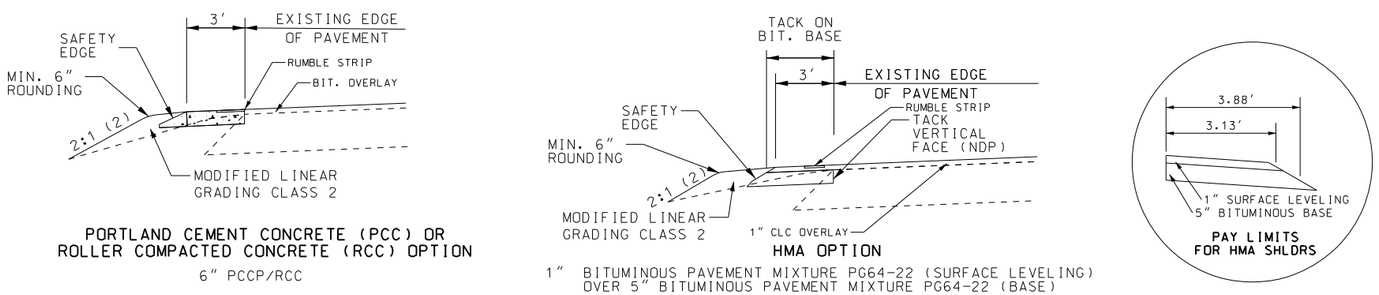


RUMBLE STRIP LOCATION DETAIL

✳ NOTE: WIDTH VARIES TO MAINTAIN MINIMUM 10' BETWEEN CENTERLINE AND SHOULDER RUMBLES. PLACE SHOULDER RUMBLE ADJACENT TO EDGE OF PAVEMENT WHERE EXISTING LANES ARE 10' OR MORE.



3' OPTIONAL SHOULDER DETAIL
(1" SURFACE LEVELING)

GENERAL NOTES:

1) DO NOT PLACE SHOULDER WIDENING WHERE ASPHALT OR CONCRETE ALREADY EXISTS.

2) CONSTRUCT FILL SLOPES TO MATCH EXIST. OR NO STEEPER THAN 2:1 UNLESS APPROVED BY THE ENGINEER. NO DIRECT PAY FOR PAVEMENT EDGE TREATMENT OR CLEARING AND GRUBBING.

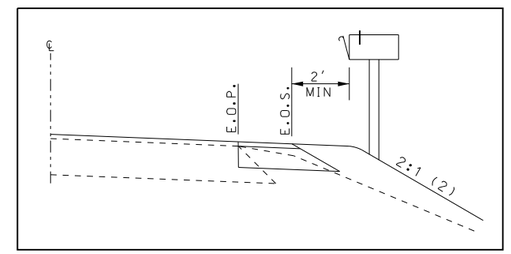
3) MODIFY EXISTING DITCH AS NECESSARY TO MAINTAIN DRAINAGE FLOW AND CAPCITY WITHIN RIGHT OF WAY LIMITS.

4) SURFACE PLACEMENT SHALL BE ONE PASS PER LANE. NO SUPERLEVATION CORRECTION.

5) ESTIMATE FACTORS:
BITUMINOUS PAVEMENT MIXTURE PG64-22 (SURFACE LEVELING) = 1.948 TONS/C.Y.
BITUMINOUS PAVEMENT MIXTURE PG64-22 (BASE) = 1.943 TONS/C.Y.
TACK = 0.05 GAL/SY (NEW ASPHALT SURFACES)
0.08 GAL/SY (EXIST. ASPHALT SURFACES)
0.10 GAL/SY (COLDMILLED ASPHALT OR CONCRETE SURFACES)
GRAVEL (A) OR CRUSHED STONE (B) OR CHAT (C) = 1.40 TONS/C.Y.

6) LOG MILES ARE APROXIMATE. VERIFY LOCATIONS IN THE FIELD.

7) CONTRACTOR TO PROVIDE A VERTICAL FACE TO EXISTING PAVEMENT. NO DIRECT PAY.



MAILBOX OFFSET DETAIL

TYPICAL SECTION
SHEET 6 OF 6

NOT TO SCALE

TYPICAL SECTION DETAILS
SHEET 1 OF 1

STATE OF MISSOURI
CURTIS D. SCHENK
NUMBER
PE-2019029937
REGISTERED PROFESSIONAL ENGINEER

DATE PREPARED	
7/28/2023	
ROUTE	STATE
5/240	MO
DISTRICT	SHEET NO.
CD	2
COUNTY	
HOWARD	
JOB NO.	
J5P3517	
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)

MISSOURI STATE CERTIFICATE OF AUTHORITY NO. 000866
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916 North 24th Street
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Hannibal, MO Burlington, IA
Galesburg, IL Fulton, IL Columbia, MO
Springfield, MO Springfield, IL

MOBILIZATION
QUANTITY
1 LUMP SUM

REMOVAL OF IMPROVEMENTS - GUARDRAIL

LOG MILE	TO	LOG MILE	LOCATION	DESCRIPTION	REMARKS
0.524	TO	0.686	RTE 5 - BRIDGE H0266	±425' GUARDRAIL	SEE SPECIAL SHEET FOR DETAILS
49.838	TO	49.888	RTE 240 - BRIDGE H0287	±450' GUARDRAIL	SEE SPECIAL SHEET FOR DETAILS
			TOTAL	1 LUMP SUM	
QUANTITIES SHOWN FOR INFORMATIONAL PURPOSES ONLY.					

MODIFIED COLD MILLING (DEPTH TRANSITIONS)

LOG MILE	TO	LOG MILE	LOCATION	LENGTH FEET	WIDTH FEET	QUANTITY SQ. YD.	REMARKS
123.837	TO	123.842	ROUTE 5	25.00	24.00	66.7	TRAVELWAY (1.0" - 0")
130.301	TO	130.306	ROUTE 5 - BEGIN CONC. SECT ON	25.00	24.00	66.7	TRAVELWAY (0" - 1.0")
131.501	TO	131.506	ROUTE 5 - END CONC. SECTION	25.00	24.00	66.7	TRAVELWAY (1.0" - 0")
132.022	TO	132.027	ROUTE 5 - BRIDGE A6076	25.00	24.00	66.7	TRAVELWAY (0" - 1.0")
132.095	TO	132.100	ROUTE 5 - BRIDGE A6076	25.00	24.00	66.7	TRAVELWAY (1.0" - 0")
141.602	TO	141.607	ROUTE 5 - NEW FRANKLIN	25.00	24.00	66.7	TRAVELWAY (0" - 1.0")
142.503	TO	142.508	ROUTE 5 - NEW FRANKLIN	25.00	24.00	66.7	TRAVELWAY (1.0" - 0")
142.735	TO	142.740	ROUTE 5 - BRIDGE H0266	25.00	24.00	66.7	TRAVELWAY (0" - 1.0")
142.770	TO	142.775	ROUTE 5 - BRIDGE H0266	25.00	24.00	66.7	TRAVELWAY (1.0" - 0")
143.241	TO	143.246	END ROUTE 5	25.00	24.00	66.7	TRAVELWAY (0" - 1.0")
			ROUTE 5 SPUR	25.00	VAR.	76.7	TRAVELWAY (0" - 1.0")
38.378	TO	38.383	BEGIN ROUTE 240 - FAYETTE	25.00	22.00	61.1	TRAVELWAY (1.0" - 0")
38.979	TO	38.984	ROUTE 240 - FAYETTE	25.00	24.00	66.7	TRAVELWAY (0" - 1.0")
39.437	TO	39.442	ROUTE 240 - FAYETTE	25.00	22.00	61.1	TRAVELWAY (1.0" - 0")
39.808	TO	39.813	ROUTE 240 - BRIDGE A7576	25.00	22.00	61.1	TRAVELWAY (0" - 1.0")
39.853	TO	39.858	ROUTE 240 - BRIDGE A7576	25.00	22.00	61.1	TRAVELWAY (1.0" - 0")
40.073	TO	40.078	ROUTE 240 - BRIDGE A7575	25.00	22.00	61.1	TRAVELWAY (0" - 1.0")
40.130	TO	40.135	ROUTE 240 - BRIDGE A7575	25.00	22.00	61.1	TRAVELWAY (1.0" - 0")
43.613	TO	43.618	ROUTE 240 - BRIDGE K0045	25.00	22.00	61.1	TRAVELWAY (0" - 1.0")
43.723	TO	43.728	ROUTE 240 - BRIDGE K0045	25.00	22.00	61.1	TRAVELWAY (1.0" - 0")
49.854	TO	49.859	ROUTE 240 - BRIDGE H0287	25.00	22.00	61.1	TRAVELWAY (0" - 1.0")
49.865	TO	49.870	ROUTE 240 - BRIDGE H0287	25.00	22.00	61.1	TRAVELWAY (1.0" - 0")
51.801	TO	51.806	END ROUTE 240	25.00	VAR.	253.6	TRAVELWAY (0" - 1.0")
			END ROUTE 240 SPUR	25.00	VAR.	69.4	TRAVELWAY (0" - 1.0")
0.705		0.710	END ALTERNATE 240	25.00	VAR.	61.1	TRAVELWAY (0" - 1.0")
			END ALTERNATE 240 SPUR	25.00	VAR.	66.7	TRAVELWAY (0" - 1.0")
					TOTAL	1871.9	
					USE	1,872	

COLDMILLING BITUMINOUS PAVEMENT FOR REMOVAL OR SURFACING (LESS THAN 3")

LOG MILE	TO	LOG MILE	LOCATION	LENGTH FEET	WIDTH FEET	COLD MILLING SQ. YD.	REMARKS
141.607	TO	142.503	ROUTE 5	4730.88	24	12615.68	CITY OF NEW FRANKLIN (1" MILLING DEPTH)
38.984	TO	39.437	ROUTE 240	2391.84	24	6378.24	CITY OF FAYETTE (1" MILLING DEPTH)
					TOTAL	18,993.92	
					USE	18,994	

MODIFIED LINEAR GRADING, CLASS II

LOG MILE	TO	LOG MILE	LOCATION	SIDE	LENGTH MILES	LENGTH FEET	MOD. LIN. GRADING CLASS II STATION	REMARKS
123.837	TO	130.133	RTE 5	LT	6.296	33242.88	332.43	3' WIDE SHOULDER
123.837	TO	130.140	RTE 5	RT	6.303	33279.84	332.80	3' WIDE SHOULDER
131.929	TO	132.027	RTE 5	LT	0.098	517.44	5.17	3' WIDE SHOULDER
131.929	TO	132.027	RTE 5	RT	0.098	517.44	5.17	3' WIDE SHOULDER
132.095	TO	141.110	RTE 5	LT	9.015	47599.20	475.99	3' WIDE SHOULDER
132.095	TO	141.110	RTE 5	RT	9.015	47599.20	475.99	3' WIDE SHOULDER
142.503	TO	142.740	RTE 5	LT	0.237	1251.36	12.51	3' WIDE SHOULDER
142.503	TO	142.740	RTE 5	RT	0.237	1251.36	12.51	3' WIDE SHOULDER
142.770	TO	143.246	RTE 5	LT	0.476	2513.280	25.13	3' WIDE SHOULDER
142.770	TO	143.246	RTE 5	RT	0.476	2513.280	25.13	3' WIDE SHOULDER
						TOTAL	1702.85	
						USE	1702.9	

SHOULDER - AGGREGATE

LOG MILE	TO	LOG MILE	LOCATION	SIDE	LENGTH MILES	LENGTH FEET	WIDTH FEET	SHOULDER AREA SQ. FT.	THICKNESS IN.	GRAVEL (A) OR CRUSHED STONE (B) 1.40 TON / CU. YD. TONS	REMARKS
118.921	TO	123.837	RTE 5	LT	4.916	25956.48	8.00	207651.84	1.50	1,345.9	8' WIDE SHOULDER
118.921	TO	123.837	RTE 5	RT	4.916	25956.48	8.00	207651.84	1.50	1,345.9	8' WIDE SHOULDER
									TOTAL	2691.78	
									USE	2692	

SUMMARY SHEET
SHEET 1 OF 17

STATE OF MISSOURI
CURTIS D. SCHENK
NUMBER PE-2019029937
REGISTERED PROFESSIONAL ENGINEER

DATE PREPARED 7/28/2023
ROUTE 5/240 | STATE MO
DISTRICT CD | SHEET NO. 3
COUNTY HOWARD
JOB NO. J5P3517
CONTRACT ID.
PROJECT NO.
BRIDGE NO.

DESCRIPTION	DATE

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MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
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BITUMINOUS PAVEMENT MIXTURE PG64-22

LOG MILE	TO	LOG MILE	LOCATION	LENGTH FEET	AVERAGE ROADWAY WIDTH FEET	PAY WIDTH FEET	AREA SQ. FT.	THICKNESS IN.	BITUMINOUS MIX (SURFACE LEVELING) 1.948 TON / CU. YD. TONS	TACK COAT 0.08 GAL/SQ. YD. GAL	TACK COAT 0.10 GAL/SQ. YD. GAL	REMARKS
123.837	TO	130.306	ROUTE 5	34156.32	24.00	24.08	822484.19	1.00	4,945.1	7,311.0	-	RTE 5 - TRAVELWAY
131.501	TO	131.557	ROUTE 5	295.68	24.00	24.08	7119.97	1.00	42.8	63.3	-	RTE 5 - TRAVELWAY
131.557	TO	131.728	ROUTE 5	902.88	24.00	24.08	21741.35	1.00	130.7	193.3	-	RTE 5 - TRAVELWAY
131.728	TO	131.929	ROUTE 5	1061.28	24.00	24.08	25555.62	1.00	153.6	227.2	-	RTE 5 - TRAVELWAY
131.929	TO	132.027	ROUTE 5	517.44	24.00	24.08	12459.96	1.00	74.9	110.8	-	RTE 5 - TRAVELWAY
132.095	TO	141.607	ROUTE 5	50223.36	24.00	24.08	1209378.51	1.00	7,271.2	10,750.0	-	RTE 5 - TRAVELWAY
141.607	TO	142.503	ROUTE 5	4730.88	24.00	24.00	113541.12	1.00	682.6	-	1,261.6	RTE 5 - MILLED SECTION - NEW FRANKLIN
142.503	TO	142.740	ROUTE 5	1251.36	24.00	24.08	30132.75	1.00	181.2	267.8	-	RTE 5 - TRAVELWAY
142.770	TO	143.246	ROUTE 5	2513.28	24.00	24.08	60519.78	1.00	363.9	538.0	-	RTE 5 - TRAVELWAY
			ROUTE 5 SPUR	-	-	-	12328.00	1.00	74.1	109.6	-	RTE 5 SPUR - TRAVELWAY
			ROUTE 5	-	-	-	-	-	2,784.0	-	-	20% FOR IRREGULARITIES
38.378	TO	38.722	ROUTE 240	1816.32	24.00	24.00	43591.68	1.00	262.1	387.5	-	RTE 240 - TRAVELWAY
38.722	TO	38.984	ROUTE 240	1383.36	24.00	24.08	33311.31	1.00	200.3	296.1	-	RTE 240 - TRAVELWAY
38.984	TO	39.078	ROUTE 240	496.32	24.00	24.00	11911.68	1.00	71.6		132.4	RTE 240 - MILLED SECTION - FAYETTE
39.078	TO	39.437	ROUTE 240	1895.52	24.00	24.00	45492.48	1.00	273.5	-	505.5	RTE 240 - MILLED SECTION - FAYETTE
39.437	TO	39.813	ROUTE 240	1985.28	24.00	24.08	47805.54	1.00	287.4	424.9	-	RTE 240 - TRAVELWAY
39.853	TO	40.016	ROUTE 240	860.64	26.00	26.08	22445.49	1.00	135.0	199.5	-	RTE 240 - TRAVELWAY
40.016	TO	40.078	ROUTE 240	327.36	31.00	31.08	10174.35	1.00	61.2	90.4	-	RTE 240 - TRAVELWAY
40.130	TO	40.218	ROUTE 240	464.64	31.00	31.08	14441.01	1.00	86.8	128.4	-	RTE 240 - TRAVELWAY
40.218	TO	43.618	ROUTE 240	17952.00	26.00	26.08	468188.16	1.00	2,814.9	4,161.7	-	RTE 240 - TRAVELWAY
43.723	TO	49.859	ROUTE 240	32398.08	26.00	26.08	844941.93	1.00	5,080.1	7,510.6	-	RTE 240 - TRAVELWAY
49.865	TO	51.806	ROUTE 240	10248.48	26.00	26.08	267280.36	1.00	1,607.0	2,375.8	-	RTE 240 - TRAVELWAY
			ROUTE 240 SPUR	-	-	-	1577.00	1.00	9.5	14.0		RTE 240 SPUR - TRAVELWAY
			ROUTE 240	-	-	-	-	-	2,722.3	-	-	25% FOR IRREGULARITIES
0.000	TO	0.710	ALT. ROUTE 240	3748.80	24.00	24.08	90271.10	1.00	542.7	802.4	-	ALT RTE 240 - TRAVELWAY
0.000	TO	0.067	ALT. ROUTE 240	353.76	VAR.	VAR.	8345.00	1.00	50.2	74.2	-	ALT RTE 240 - TRAVELWAY
			ALT. ROUTE 240 SPUR	-	-	-	1761.00	1.00	10.6	15.7		ALT RTE 240 SPUR - TRAVELWAY
			ALT. ROUTE 240	-	-	-	-	-	120.7	-	-	20% FOR IRREGULARITIES
ROUTE TOTAL			**ROUTE 5**	-	-		-	-	**16,704.2**	**20,832.4**		
ROUTE TOTAL			**ROUTE 240**	-	-		-	-	**13,611.7**	**16,226.8**		
ROUTE TOTAL			**ALT. ROUTE 240**	-	-		-	-	**724.2**	**892.2**		
								TOTALS	**31,040.0**	**37,951.4**		
								USE	**31,040.1**	**37,952**		

SHOULDER - BITUMINOUS PAVEMENT MIXTURE PG64-22 (BASE)

LOG MILE	TO	LOG MILE	LOCATION	SIDE	LENGTH MILES	LENGTH FEET	PAY LIMIT WIDTH FEET	SHOULDER AREA SQ. FT.	THICKNESS IN.	BITUMINOUS MIX (BASE) 1.943 TON / CU. YD. TONS	REMARKS
123.837	TO	130.133	RTE 5	LT	6.296	33242.88	3.88	128982.37	5.00	3,867.5	3' WIDE SHOULDER
123.837	TO	130.140	RTE 5	RT	6.303	33279.84	3.88	129125.78	5.00	3,871.8	3' WIDE SHOULDER
131.929	TO	132.027	RTE 5	LT	0.098	517.44	3.88	2007.67	5.00	60.2	3' WIDE SHOULDER
131.929	TO	132.027	RTE 5	RT	0.098	517.44	3.88	2007.67	5.00	60.2	3' WIDE SHOULDER
132.095	TO	141.110	RTE 5	LT	9.015	47599.20	3.88	184684.90	5.00	5,537.7	3' WIDE SHOULDER
132.095	TO	141.110	RTE 5	RT	9.015	47599.20	3.88	184684.90	5.00	5,537.7	3' WIDE SHOULDER
142.503	TO	142.740	RTE 5	LT	0.237	1251.360	3.88	4855.28	5.00	145.6	3' WIDE SHOULDER
142.503	TO	142.740	RTE 5	RT	0.237	1251.360	3.88	4855.28	5.00	145.6	3' WIDE SHOULDER
142.770	TO	143.246	RTE 5	LT	0.476	2513.280	3.88	9751.53	5.00	292.4	3' WIDE SHOULDER
142.770	TO	143.246	RTE 5	RT	0.476	2513.280	3.88	9751.53	5.00	292.4	3' WIDE SHOULDER
									TOTAL	**19811.01**	
									USE	**19811.0**	

SUMMARY SHEET
SHEET 2 OF 17

STATE OF MISSOURI
CURTIS D. SCHENK
NUMBER PE-2019029937
REGISTERED PROFESSIONAL ENGINEER

DATE PREPARED 7/28/2023
ROUTE 5/240 | STATE MO
DISTRICT CD | SHEET NO. 3
COUNTY HOWARD
JOB NO. J5P3517
CONTRACT ID.
PROJECT NO.
BRIDGE NO.

DESCRIPTION | DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
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Professional Engineers, P.A.

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SHAPING SLOPES CLASS 3

BRIDGE NUMBER	LOCATION	LENGTH FEET	LENGTH STATIONS	REMARKS
H0266	N.W. QUADRANT	218.0	2.18	SEE SPECIAL SHEET FOR DETAILS
H0266	N.E. QUADRANT	168.0	1.68	SEE SPECIAL SHEET FOR DETAILS
H0266	S.W. QUADRANT	168.0	1.68	SEE SPECIAL SHEET FOR DETAILS
H0266	S.E. QUADRANT	218.0	2.18	SEE SPECIAL SHEET FOR DETAILS
H0287	N.W. QUADRANT	230.0	2.30	SEE SPECIAL SHEET FOR DETAILS
H0287	N.E. QUADRANT	180.0	1.80	SEE SPECIAL SHEET FOR DETAILS
H0287	S.W. QUADRANT	180.0	1.80	SEE SPECIAL SHEET FOR DETAILS
H0287	S.E. QUADRANT	230.0	2.30	SEE SPECIAL SHEET FOR DETAILS
		TOTAL	**15.92**	
		USE	**16**	

NOTE: CONTRACTOR SHALL SEED DISTURBED AREAS AT NO DIRECT PAY

GUARDRAIL

BRIDGE NUMBER	LOCATION	MGS GUARDRAIL FEET	MGS BRIDGE APPR. TRANS. SECT. (THRIE-BEAM) EACH	MASH TYPE A CRASHWORTHY END TERMINAL EACH	MGS BRIDGE APPR. TRANS. SECT. (REG./NO CURB) EACH	REMARKS
H0266	N.W. QUADRANT	100.0	-	1	1	SEE SPECIAL SHEET FOR DETAILS
H0266	N.E. QUADRANT	50.0	-	1	1	SEE SPECIAL SHEET FOR DETAILS
H0266	S.W. QUADRANT	50.0	-	1	1	SEE SPECIAL SHEET FOR DETAILS
H0266	S.E. QUADRANT	100.0	-	1	1	SEE SPECIAL SHEET FOR DETAILS
H0287	N.W. QUADRANT	112.5	1	1	-	SEE SPECIAL SHEET FOR DETAILS
H0287	N.E. QUADRANT	62.5	1	1	-	SEE SPECIAL SHEET FOR DETAILS
H0287	S.W. QUADRANT	62.5	1	1	-	SEE SPECIAL SHEET FOR DETAILS
H0287	S.E. QUADRANT	112.5	1	1	-	SEE SPECIAL SHEET FOR DETAILS
	TOTAL	**650.0**	**4**	**8**	**4**	
	USE	**650**	**4**	**8**	**4**	

SHOULDER - BITUMINOUS SURFACE PAVEMENT

LOG MILE	TO	LOG MILE	LOCATION	SIDE	LENGTH MILES	LENGTH FEET	PAY LIMIT WIDTH FEET	SHOULDER AREA SQ. FT.	THICKNESS IN.	BITUMINOUS MIX (SURFACE LEVELING) 1.948 TON / CU. YD. TONS	TACK COAT 0.05 GAL/SQ. YD. GAL	REMARKS
123.837	TO	130.133	RTE 5	LT	6.296	33242.88	3.13	104050.21	1.00	625.6	578.06	3' WIDE SHOULDER
123.837	TO	130.140	RTE 5	RT	6.303	33279.84	3.13	104165.90	1.00	626.3	578.70	3' WIDE SHOULDER
131.929	TO	132.027	RTE 5	LT	0.098	517.44	3.13	1619.59	1.00	9.7	9.00	3' WIDE SHOULDER
131.929	TO	132.027	RTE 5	RT	0.098	517.44	3.13	1619.59	1.00	9.7	9.00	3' WIDE SHOULDER
132.095	TO	141.110	RTE 5	LT	9.015	47599.20	3.13	148985.50	1.00	895.8	827.70	3' WIDE SHOULDER
132.095	TO	141.110	RTE 5	RT	9.015	47599.20	3.13	148985.50	1.00	895.8	827.70	3' WIDE SHOULDER
142.503	TO	142.740	RTE 5	LT	0.237	1251.36	3.13	3916.76	1.00	23.5	21.76	3' WIDE SHOULDER
142.503	TO	142.740	RTE 5	RT	0.237	1251.36	3.13	3916.76	1.00	23.5	21.76	3' WIDE SHOULDER
142.770	TO	143.246	RTE 5	LT	0.476	2513.280	3.13	7866.57	1.00	47.3	43.70	3' WIDE SHOULDER
142.770	TO	143.246	RTE 5	RT	0.476	2513.280	3.13	7866.57	1.00	47.3	43.70	3' WIDE SHOULDER
									TOTAL	**3204.54**	**2961.07**	
									USE	**3204.5**	**2962**	

SUMMARY SHEET
SHEET 3 OF 17

STATE OF MISSOURI
CURTIS D. SCHENK
NUMBER
PE-2019029937
REGISTERED PROFESSIONAL ENGINEER

DATE PREPARED
7/28/2023

ROUTE	STATE
5/240	MO
DISTRICT	SHEET NO.
CD	3

COUNTY
HOWARD

JOB NO.
J5P3517

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DATE	DESCRIPTION

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

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Bloomington, IN Cincinnati, OH

BITUMINOUS SHOULDER RUMBLE STRIP

LOG MILE	TO	LOG MILE	LOCATION	LENGTH FT	EXCEPTION FT	STA	REMARKS
123.837	TO	130.171	RTE. 5 - LT	33,444	8,002	254.42	BEGIN AT ASPHALT SECTION/END AT FAYETTE CITY LIMITS
131.929	TO	132.027	RTE. 5 - LT	517	0	5.17	BEGIN FAYETTE CITY LIMITS/END BRIDGE A6076
132.095	TO	141.110	RTE. 5 - LT	47,599	9,239	383.60	BEGIN BRIDGE A6076/END AT NEW FRANKLIN CITY LIMIT
142.503	TO	142.740	RTE. 5 - LT	1,251	430	8.21	BEGIN NEW FRANKLIN CITY LIMIT/END AT BRIDGE H0266
142.770	TO	143.246	RTE. 5 - LT	2,513	255	22.58	BEGIN AT BRIDGE H0266/END AT END OF PROJECT
40.130	TO	43.618	RTE. 240 - LT	18,417	3,185	152.32	BEGIN AT BRIDGE A7575/END AT BRIDGE K0045
43.723	TO	49.859	RTE. 240 - LT	32,398	5,375	270.23	BEGIN AT BRIDGE K0045/END AT BRIDGE H0287
49.865	TO	51.806	RTE. 240 - LT	10,248	2,446	78.02	BEGIN AT BRIDGE H0287/END AT END OF PROJECT
123.837	TO	130.171	RTE. 5 - RT	33,444	7,310	261.34	BEGIN AT ASPHALT SECTION/END AT FAYETTE CITY LIMITS
131.929	TO	132.027	RTE. 5 - RT	517	0	5.17	BEGIN FAYETTE CITY LIMITS/END BRIDGE A6076
132.095	TO	141.110	RTE. 5 - RT	47,599	9,878	377.21	BEGIN BRIDGE A6076/END AT NEW FRANKLIN CITY LIMIT
142.503	TO	142.740	RTE. 5 - RT	1,251	0	12.51	BEGIN NEW FRANKLIN CITY LIMIT/END AT BRIDGE H0266
142.770	TO	143.246	RTE. 5 - RT	2,513	224	22.89	BEGIN AT BRIDGE H0266/END AT END OF PROJECT
40.130	TO	43.618	RTE. 240 - RT	18,417	5,871	125.46	BEGIN AT BRIDGE A7575/END AT BRIDGE K0045
43.723	TO	49.859	RTE. 240 - RT	32,398	4,588	278.10	BEGIN AT BRIDGE K0045/END AT BRIDGE H0287
49.865	TO	51.806	RTE. 240 - RT	10,248	2,744	75.04	BEGIN AT BRIDGE H0287/END AT END OF PROJECT
					TOTAL	**2,332.29**	
					USE	**2,332.3**	

EXCEPTIONS INCLUDE STATE ROUTES, COUNTY ROADS, RESIDENTIAL AND COMMERCIAL ENTRANCES

BITUMINOUS CENTERLINE RUMBLE STRIP

LOG MILE	TO	LOG MILE	LOCATION	LENGTH FT	STA	REMARKS
123.837	TO	130.171	RTE. 5 - CL	33,444	334.44	BEGIN AT ASPHALT SECTION/END AT FAYETTE CITY LIMITS
131.929	TO	132.027	RTE. 5 - CL	517	5.17	BEGIN AT FAYETTE CITY LIMITS/END AT BRIDGE A6076
132.095	TO	141.110	RTE. 5 - CL	47,599	475.99	BEGIN AT BRIDGE A6076/END AT NEW FRANKLIN CITY LIMIT
142.503	TO	142.740	RTE. 5 - CL	1,251	12.51	BEGIN AT NEW FRANKLIN CITY LIMIT/END AT BRIDGE H0266
142.770	TO	143.246	RTE. 5 - CL	2,513	25.13	BEGIN AT BRIDGE H0266/END AT END OF PROJECT
40.216	TO	43.618	RTE. 240 - CL	17,963	179.63	BEGIN AT BRIDGE A7575/END AT BRIDGE K0045
43.723	TO	49.859	RTE. 240 - CL	32,398	323.98	BEGIN AT BRIDGE K0045/END AT BRIDGE H0287
49.865	TO	51.806	RTE. 240 - CL	10,248	102.48	BEGIN AT BRIDGE H0287/END AT END OF PROJECT
0.000	TO	0.710	RTE. 240 ALT - CL	3,749	37.49	
				TOTAL	**1,496.83**	
				USE	**1,496.8**	

EROSION CONTROL

LOG MILE	TO	LOG MILE	LOCATION	SIDE	SILT FENCE FEET	ALT DITCH CHECK FEET	ROCK DITCH CHECK FEET	SEDIMENT TRAP ROCK CU YD	SEDIMENT REMOVAL CU YD	REMARKS
123.837	TO	130.133	RTE 5	LT	1511	1007	2418	38	395	
123.837	TO	130.140	RTE 5	RT	1513	1008	2420	38	396	
131.929	TO	132.027	RTE 5	LT	24	16	38	1	6	
131.929	TO	132.027	RTE 5	RT	24	16	38	1	6	
132.095	TO	141.110	RTE 5	LT	2164	1442	3462	54	566	
132.095	TO	141.110	RTE 5	RT	2164	1442	3462	54	566	
142.503	TO	142.740	RTE 5	LT	57	38	91	1	15	
142.503	TO	142.740	RTE 5	RT	57	38	91	1	15	
142.770	TO	143.246	RTE 5	LT	114	76	183	3	30	
142.770	TO	143.246	RTE 5	RT	114	76	183	3	30	
				TOTAL	**7740**	**5160**	**12384**	**194**	**2025**	
				USE						

SILT FENCE = 240 LF/MILE, ROCK DITCH CHECK = 384 LF/MILE, ALT DITCH CHECK = 160 LF/MILE, SEDIMENT TRAP = 6 CY/MILE,

SEEDING & MULCHING

LOG MILE	TO	LOG MILE	LOCATION	SIDE	SEEDING COOL SEASON ACRE	TEMP. SEEDING ACRE	MULCHING ACRE	REMARKS
123.837	TO	130.133	RTE 5	LT	3.05	0.61	3.66	WIDTH = 4' PER SIDE
123.837	TO	130.140	RTE 5	RT	3.06	0.61	3.67	WIDTH = 4' PER SIDE
131.929	TO	132.027	RTE 5	LT	0.05	0.01	0.06	WIDTH = 4' PER SIDE
131.929	TO	132.027	RTE 5	RT	0.05	0.01	0.06	WIDTH = 4' PER SIDE
132.095	TO	141.110	RTE 5	LT	4.37	0.87	5.25	WIDTH = 4' PER SIDE
132.095	TO	141.110	RTE 5	RT	4.37	0.87	5.25	WIDTH = 4' PER SIDE
142.503	TO	142.740	RTE 5	LT	0.11	0.02	0.14	WIDTH = 4' PER SIDE
142.503	TO	142.740	RTE 5	RT	0.11	0.02	0.14	WIDTH = 4' PER SIDE
142.770	TO	143.246	RTE 5	LT	0.23	0.05	0.28	WIDTH = 4' PER SIDE
142.770	TO	143.246	RTE 5	RT	0.23	0.05	0.28	WIDTH = 4' PER SIDE
				TOTAL	**15.64**	**3.13**	**18.76**	
				USE	**15.7**	**3.2**	**18.9**	

TEMPORARY SEEDING ESTIMATED AT 20% OF COOL SEASON SEEDING.

STATE OF MISSOURI
CURTIS D. SCHENK
NUMBER PE-2019029937
REGISTERED PROFESSIONAL ENGINEER

DATE PREPARED 8/29/2023
ROUTE 5/240 | STATE MO
DISTRICT CD | SHEET NO. 3
COUNTY HOWARD
JOB NO. J5P3517
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)

MISSOURI STATE CERTIFICATE OF AUTHORITY NO. 000866
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Engineers • Architects • Surveyors
www.klingner.com
Quincy, Illinois 618 North 24th Street 217.222.0570
Hannibal, MO Burlington, IA Galesburg, IL Fort Madison, IA Columbia, MO Bloomington, IL Cottonwood, IL

SUMMARY SHEET
SHEET 4 OF 17

GUTTER CLEAN-OUT (CITY OF FAYETTE - ADD ALTERNATE A)

LOG MILE	TO	LOG MILE	LOCATION	LENGTH FEET	REMARKS
38.722	TO	38.984	RTE. 240 - LT.	1383.36	CITY OF FAYETTE PARKING (COLLEGE)
38.722	TO	38.984	RTE. 240 - RT.	1383.36	CITY OF FAYETTE PARKING (COLLEGE)
			TOTAL	2766.7	
			USE	2767	

BITUMINOUS PAVEMENT MIXTURE PG64-22 (CITY OF FAYETTE - ADD ALTERNATE A)

LOG MILE	TO	LOG MILE	LOCATION	LENGTH FEET	AVERAGE PARKING/GUTTER WIDTH FEET	AREA SQ. FT.	THICKNESS IN.	BITUMINOUS MIX (SURFACE LEVELING) 1.948 TON / CU. YD. TONS	TACK COAT 0.10 GAL/SQ. YD. GAL	REMARKS
38.722	TO	38.984	RTE. 240 - LT.	1383.36	4.00	5534	1.00	33.3	61.5	CITY OF FAYETTE PARKING - SEE SPECIAL SHEET FOR DETAILS
38.722	TO	38.984	RTE. 240 - RT.	1383.36	4.00	5534	1.00	33.3	61.5	CITY OF FAYETTE PARKING - SEE SPECIAL SHEET FOR DETAILS
								16.6	-	25% FOR IRREGULARITIES
38.994	TO	39.048	RTE. 240 - LT.	285.12	24.00	6843	1.00	41.1	76.0	CITY OF FAYETTE PARKING - SEE SPECIAL SHEET FOR DETAILS
38.994	TO	39.048	RTE. 240 - RT.	285.12	18.00	5132	1.00	30.9	57.0	
39.054	TO	39.078	RTE. 240 - LT.	126.72	12.00	1521	1.00	9.1	16.9	
39.054	TO	39.078	RTE. 240 - RT.	126.72	16.00	2028	1.00	12.2	22.5	CITY OF FAYETTE PARKING - SEE SPECIAL SHEET FOR DETAILS
							TOTALS	176.5	295.5	
							USE	176.5	296	

COLDMILLING BITUMINOUS PAVEMENT FOR REMOVAL OR SURFACING (LESS THAN 3") - (CITY OF FAYETTE - ADD ALTERNATE A)

LOG MILE	TO	LOG MILE	LOCATION	LENGTH FEET	WIDTH FEET	AREA SQ. FT.	COLD MILLING SQ. YD.	REMARKS
38.994	TO	39.048	RTE. 240 - LT.	285.12	24.00	6842.88	760.32	CITY OF FAYETTE PARKING (1" MILLING DEPTH)
38.994	TO	39.048	RTE. 240 - RT.	285.12	18.00	5132.16	570.24	CITY OF FAYETTE PARKING (1" MILLING DEPTH)
39.054	TO	39.078	RTE. 240 - LT.	126.72	12.00	1520.64	168.96	CITY OF FAYETTE PARKING (1" MILLING DEPTH)
39.054	TO	39.078	RTE. 240 - RT.	126.72	16.00	2027.52	225.28	CITY OF FAYETTE PARKING (1" MILLING DEPTH)
						TOTAL	1,724.80	
						USE	1,725	

ENTRANCES - RTE 240 (CITY OF FAYETTE - ADD ALTERNATE A)

LOG MILE	LOCATION	ENTRANCE MATERIAL TYPE	AREA SQ. FT.	LENGTH FEET	DEPTH OF ENTRANCE OVERLAY IN.	BITUMINOUS MIX (SURF. LEVELING) 1.948 TON/CY TONS	TACK COAT 0.10 GAL/SY GAL	MODIFIED COLDMILLING (DEPTH TRANS) SQ. YD.	REMARKS
38.757	RTE 240 - RT	CONC.	115.0	4.0	1.00	0.69	1.28	12.78	LUCKY ST.
38.778	RTE 240 - RT	CONC.	25.0	2.0	1.00	0.15	0.28	-	P.E.
38.817	RTE 240 - RT	CONC.	32.0	2.0	1.00	0.19	0.36	-	P.E.
38.837	RTE 240 - RT	CONC.	80.0	4.0	1.00	0.48	0.89	-	CRIB ST.
38.857	RTE 240 - RT	CONC.	26.0	2.0	1.00	0.16	0.29	-	P.E.
38.879	RTE 240 - RT	CONC.	200.0	4.0	1.00	1.20	2.22	-	SPRING ST.
38.879	RTE 240 - LT	ASPH.	165.0	4.0	1.00	0.99	1.83	18.33	SPRING ST.
38.898	RTE 240 - RT	CONC.	36.0	2.0	1.00	0.22	0.40	-	P.E.
38.918	RTE 240 - RT	CONC.	100.0	2.0	1.00	0.60	1.11	-	P.E.
38.941	RTE 240 - RT	CONC.	128.0	4.0	1.00	0.77	1.42	14.22	ELM ST.
38.941	RTE 240 - LT	CONC.	112.0	4.0	1.00	0.67	1.24	12.44	ELM ST.
38.959	RTE 240 - RT	ASPH.	44.0	2.0	1.00	0.26	0.49	4.89	P.E.
38.961	RTE 240 - LT	ASPH.	26.0	2.0	1.00	0.16	0.29	2.89	P.E.
38.963	RTE 240 - LT	ASPH.	32.0	2.0	1.00	0.19	0.36	3.56	P.E.
38.978	RTE 240 - RT	ASPH.	72.0	2.0	1.00	0.43	0.80	8.00	P.E.
					TOTAL	7.17	13.26	77.11	
					USE	7.2	14	78	

SUMMARY SHEET
SHEET 5 OF 17

STATE OF MISSOURI
CURTIS D. SCHENK
NUMBER PE-2019029937
REGISTERED PROFESSIONAL ENGINEER

DATE PREPARED 8/29/2023
ROUTE 5/240 | STATE MO
DISTRICT CD | SHEET NO. 3
COUNTY HOWARD
JOB NO. J5P3517
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
MoDOT
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

MISSOURI STATE CERTIFICATE OF AUTHORITY NO. 000866
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616 North 24th Street
217.222.0293
Hannibal, MO Burlington, IA
Galesburg, IL Fort Madison, IA Columbia, MO
Bloomington, IL Davenport, IA

ENTRANCES - ROUTE 5

LOG MILE	LOCATION	ENTRANCE MATERIAL TYPE	AREA SQ. FT.	LENGTH FEET	AVE. DEPTH OF ENTRANCE OVERLAY IN.	GRAVEL A OR CR. STONE B 1.40 TON/CY TONS	BITUMINOUS MIX (SURF. LEVELING) 1.948 TON/CY TONS	TACK COAT 0.10 GAL/SY GAL	MODIFIED COLDMILLING (DEPTH TRANS) SQ. YD.	REMARKS
123.895	RTE 5/240 - RT	ASPH.	1650.0	TO RADII	1.00	-	9.92	18.33	200.00	CO. RD. 235
123.895	RTE 5/240 - LT	ASPH.	1756.0	TO RADII	1.00	-	10.56	19.51	230.00	CO. RD. 237
124.195	RTE 5/240 - LT	AGGR.	97.0	2.0	1.00	0.42	-	-	-	P.E.
124.435	RTE 5/240 - LT	AGGR.	101.0	2.0	1.00	0.44	-	-	-	CO. RD. 211
124.614	RTE 5/240 - RT	AGGR.	69.0	2.0	1.00	0.30	-	-	-	P.E.
124.974	RTE 5/240 - LT	AGGR.	79.0	2.0	1.00	0.34	-	-	-	CO. RD. 211
125.074	RTE 5/240 - RT	AGGR.	72.0	2.0	1.00	0.31	-	-	-	P.E.
125.234	RTE 5/240 - RT	AGGR.	54.0	2.0	1.00	0.23	-	-	-	P.E.
125.234	RTE 5/240 - LT	AGGR.	119.0	2.0	1.00	0.51	-	-	-	P.E.
125.394	RTE 5/240 - LT	AGGR.	81.0	2.0	1.00	0.35	-	-	-	P.E.
125.414	RTE 5/240 - RT	AGGR.	58.0	2.0	1.00	0.25	-	-	-	P.E.
125.674	RTE 5/240 - RT	AGGR.	85.0	2.0	1.00	0.37	-	-	-	P.E.
125.674	RTE 5/240 - LT	AGGR.	69.0	2.0	1.00	0.30	-	-	-	P.E.
125.794	RTE 5/240 - LT	AGGR.	269.0	2.0	1.00	1.16	-	-	-	P.E.
125.873	RTE 5/240 - LT	ASPH.	6532.0	TO RADII	1.00	-	39.27	72.58	30.00	RTE 3
126.034	RTE 5/240 - RT	AGGR.	70.0	2.0	1.00	0.30	-	-	-	CO. RD. 221
126.214	RTE 5/240 - LT	AGGR.	67.0	2.0	1.00	0.29	-	-	-	P.E.
126.394	RTE 5/240 - LT	AGGR.	129.0	2.0	1.00	0.56	-	-	-	P.E.
126.494	RTE 5/240 - LT	AGGR.	68.0	2.0	1.00	0.29	-	-	-	P.E.
126.594	RTE 5/240 - RT	AGGR.	112.0	2.0	1.00	0.48	-	-	-	CO. RD. 221
126.654	RTE 5/240 - RT	AGGR.	65.0	2.0	1.00	0.28	-	-	-	P.E.
126.654	RTE 5/240 - LT	AGGR.	54.0	2.0	1.00	0.23	-	-	-	P.E.
126.754	RTE 5/240 - RT	AGGR.	102.0	2.0	1.00	0.44	-	-	-	CO. RD. 223
127.113	RTE 5/240 - RT	AGGR.	128.0	2.0	1.00	0.55	-	-	-	CO. RD. 223
127.232	RTE 5/240 - RT	AGGR.	68.0	2.0	1.00	0.29	-	-	-	P.E.
127.412	RTE 5/240 - LT	AGGR.	59.0	2.0	1.00	0.25	-	-	-	P.E.
127.572	RTE 5/240 - RT	AGGR.	54.0	2.0	1.00	0.23	-	-	-	P.E.
127.572	RTE 5/240 - LT	AGGR.	36.0	2.0	1.00	0.16	-	-	-	P.E.
127.772	RTE 5/240 - LT	AGGR.	80.0	2.0	1.00	0.35	-	-	-	P.E.
127.793	RTE 5/240 - RT	AGGR.	55.0	2.0	1.00	0.24	-	-	-	P.E.
127.853	RTE 5/240 - RT	AGGR.	45.0	2.0	1.00	0.19	-	-	-	P.E.
127.933	RTE 5/240 - RT	AGGR.	61.0	2.0	1.00	0.26	-	-	-	P.E.
127.953	RTE 5/240 - RT	AGGR.	50.0	2.0	1.00	0.22	-	-	-	P.E.
128.032	RTE 5/240 - LT	AGGR.	44.0	2.0	1.00	0.19	-	-	-	P.E.
128.052	RTE 5/240 - LT	AGGR.	58.0	2.0	1.00	0.25	-	-	-	P.E.
128.152	RTE 5/240 - RT	AGGR.	56.0	2.0	1.00	0.24	-	-	-	P.E.
128.292	RTE 5/240 - RT	AGGR.	110.0	2.0	1.00	0.48	-	-	-	CO. RD. 225
128.352	RTE 5/240 - LT	AGGR.	48.0	2.0	1.00	0.21	-	-	-	P.E.
128.372	RTE 5/240 - LT	AGGR.	71.0	2.0	1.00	0.31	-	-	-	P.E.
128.392	RTE 5/240 - LT	AGGR.	66.0	2.0	1.00	0.29	-	-	-	P.E.
128.492	RTE 5/240 - LT	CONC.	55.0	2.0	1.00	-	0.33	0.61	-	P.E.
128.493	RTE 5/240 - LT	AGGR.	70.0	2.0	1.00	0.30	-	-	-	P.E.
128.692	RTE 5/240 - RT	AGGR.	75.0	2.0	1.00	0.32	-	-	-	CO. RD. 225
128.732	RTE 5/240 - LT	AGGR.	72.0	2.0	1.00	0.31	-	-	-	P.E.
128.792	RTE 5/240 - LT	AGGR.	115.0	2.0	1.00	0.50	-	-	-	P.E.
128.872	RTE 5/240 - LT	AGGR.	84.0	2.0	1.00	0.36	-	-	-	P.E.
128.932	RTE 5/240 - RT	AGGR.	136.0	2.0	1.00	0.59	-	-	-	P.E.
128.972	RTE 5/240 - RT	AGGR.	122.0	2.0	1.00	0.53	-	-	-	P.E.
129.092	RTE 5/240 - RT	AGGR.	49.0	2.0	1.00	0.21	-	-	-	P.E.
129.172	RTE 5/240 - LT	AGGR.	125.0	2.0	1.00	0.54	-	-	-	P.E.
				RTE 5 SHEET 1: SUB-TOTAL		16.23	60.08	111.03	460.00	

SUMMARY SHEET
SHEET 6 OF 17

STATE OF MISSOURI
CURTIS D. SCHENK
NUMBER PE-2019029937
REGISTERED PROFESSIONAL ENGINEER

DATE PREPARED 7/28/2023
ROUTE 5/240 | STATE MO
DISTRICT CD | SHEET NO. 3
COUNTY HOWARD
JOB NO. J5P3517
CONTRACT ID.
PROJECT NO.
BRIDGE NO.

DATE	DESCRIPTION

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

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Gallatin, IL Fulton, MO Columbia, MO
Dunnigan, CA Concord, N.H.

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

ENTRANCES - RTE 5 (CONTINUED)

LOG MILE	LOCATION	ENTRANCE MATERIAL TYPE	AREA SQ. FT.	LENGTH FEET	DEPTH OF ENTRANCE OVERLAY IN.	GRAVEL A OR CR. STONE B 1.40 TON/CY TONS	BITUMINOUS MIX (SURF. LEVELING) 1.948 TON/CY TONS	TACK COAT 0.10 GAL/SY GAL	MODIFIED COLDMILLING (DEPTH TRANS) SQ. YD.	REMARKS
129.492	RTE 5/240 - LT	AGGR.	210.0	2.0	1.00	0.91	-	-	-	CO. RD. 209
129.552	RTE 5/240 - LT	AGGR.	89.0	2.0	1.00	0.38	-	-	-	P.E.
129.572	RTE 5/240 - LT	AGGR.	63.0	2.0	1.00	1.36	-	-	-	P.E.
129.632	RTE 5/240 - RT	AGGR.	76.0	2.0	1.00	0.33	-	-	-	P.E.
129.673	RTE 5/240 - LT	AGGR.	42.0	2.0	1.00	0.18	-	-	-	P.E.
129.713	RTE 5/240 - LT	AGGR.	92.0	2.0	1.00	0.40	-	-	-	P.E.
129.754	RTE 5/240 - RT	AGGR.	126.0	2.0	1.00	0.54	-	-	-	P.E.
129.794	RTE 5/240 - RT	AGGR.	164.0	2.0	1.00	0.71	-	-	-	P.E.
129.814	RTE 5/240 - LT	AGGR.	88.0	2.0	1.00	0.38	-	-	-	P.E.
129.895	RTE 5/240 - RT	AGGR.	64.0	2.0	1.00	0.28	-	-	-	P.E.
129.895	RTE 5/240 - LT	AGGR.	120.0	2.0	1.00	2.59	-	-	-	P.E.
129.954	RTE 5/240 - RT	AGGR.	106.0	2.0	1.00	0.46	-	-	-	P.E.
129.974	RTE 5/240 - RT	ASPH.	3432.0	TO RADII	1.00	-	20.63	38.13	24.00	RTE FF
130.053	RTE 5/240 - LT	ASPH.	56.0	2.0	1.00	-	0.34	0.62	6.22	P.E.
130.074	RTE 5/240 - RT	AGGR.	334.0	2.0	1.00	1.44	-	-	-	P.E.
130.113	RTE 5/240 - RT	AGGR.	72.0	2.0	1.00	0.31	-	-	-	P.E.
130.152	RTE 5/240 - RT	AGGR.	150.0	2.0	1.00	0.65	-	-	-	P.E.
130.152	RTE 5/240 - LT	CONC.	104.0	2.0	1.00	2.25	-	-	-	P.E.
130.172	RTE 5/240 - LT	CONC.	50.0	2.0	1.00	0.22	-	-	-	P.E.
130.172	RTE 5/240 - RT	AGGR.	150.0	2.0	1.00	0.65	-	-	-	P.E.
130.192	RTE 5/240 - LT	CONC.	50.0	2.0	1.00	0.22	-	-	-	P.E.
130.212	RTE 5/240 - LT	AGGR.	55.0	2.0	1.00	0.24	-	-	-	P.E.
130.232	RTE 5/240 - RT	AGGR.	186.0	2.0	1.00	0.80	-	-	-	P.E.
130.250	RTE 5/240 - LT	AGGR.	48.0	2.0	1.00	0.21	-	-	-	P.E.
130.253	RTE 5/240 - LT	AGGR.	66.0	2.0	1.00	0.29	-	-	-	P.E.
130.272	RTE 5/240 - LT	AGGR.	42.0	2.0	1.00	0.18	-	-	-	P.E.
130.292	RTE 5/240 - LT	AGGR.	46.0	2.0	1.00	0.20	-	-	-	P.E.
131.559	RTE 5 - LT	ASPH.	720.0	4.0	1.00	-	4.33	8.00	80.00	MORRISON ST.
131.559	RTE 5 - RT	ASPH.	260.0	4.0	1.00	-	1.56	2.89	28.89	MORRISON ST.
131.599	RTE 5 - LT	ASPH.	200.0	4.0	1.00	-	1.20	2.22	22.22	WALNUT ST.
131.622	RTE 5 - RT	ASPH.	182.0	4.0	1.00	-	1.09	2.02	20.22	COOPER ST.
131.667	RTE 5 - LT	ASPH.	248.0	4.0	1.00	-	1.49	2.76	27.56	FRANCIS ST.
131.731	RTE 5 - LT	ASPH.	104.0	4.0	1.00	-	0.63	1.16	11.56	FOREST ST.
131.755	RTE 5 - RT	ASPH.	300.0	4.0	1.00	-	1.80	3.33	33.33	CLARK ST.
131.795	RTE 5 - LT	ASPH.	180.0	4.0	1.00	-	1.08	2.00	20.00	LAKE ST.
131.821	RTE 5 - RT	ASPH.	160.0	4.0	1.00	-	0.96	1.78	17.78	FURR ST.
131.867	RTE 5 - LT	CONC.	220.0	4.0	1.00	-	1.32	2.44	-	PARK ST.
131.899	RTE 5 - LT	ASPH.	260.0	4.0	1.00	-	1.56	2.89	28.89	C.E.
132.008	RTE 5 - RT	AGGR.	84.0	2.0	1.00	0.36	-	-	-	P.E.
132.113	RTE 5 - LT	ASPH.	3409.0	TO RADII	1.00	-	20.50	37.88	29.00	RTE DD
132.278	RTE 5 - RT	AGGR.	106.0	2.0	1.00	0.46	-	-	-	P.E.
132.394	RTE 5 - LT	CONC.	102.0	2.0	1.00	-	0.61	1.13	-	P.E.
132.394	RTE 5 - RT	AGGR.	48.0	2.0	1.00	0.21	-	-	-	P.E.
132.526	RTE 5 - LT	AGGR.	32.0	2.0	1.00	0.14	-	-	-	P.E.
132.860	RTE 5 - LT	AGGR.	46.0	2.0	1.00	0.20	-	-	-	P.E.
132.896	RTE 5 - RT	AGGR.	92.0	2.0	1.00	0.40	-	-	-	P.E.
132.906	RTE 5 - LT	AGGR.	88.0	2.0	1.00	0.38	-	-	-	P.E.
132.980	RTE 5 - RT	AGGR.	34.0	2.0	1.00	0.15	-	-	-	P.E.
133.111	RTE 5 - RT	AGGR.	92.0	2.0	1.00	0.40	-	-	-	P.E.
133.150	RTE 5 - LT	AGGR.	49.0	2.0	1.00	0.21	-	-	-	P.E.
				RTE 5 SHEET 2: SUB-TOTAL		19.06	59.12	109.26	349.67	

SUMMARY SHEET
SHEET 7 OF 17

STATE OF MISSOURI
CURTIS D. SCHENK
NUMBER
PE-2019029937
REGISTERED PROFESSIONAL ENGINEER

DATE PREPARED 7/28/2023
ROUTE 5/240 | STATE MO
DISTRICT CD | SHEET NO. 3
COUNTY HOWARD
JOB NO. J5P3517
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
MoDOT
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

MISSOURI STATE CERTIFICATE OF AUTHORITY NO. 000866
KLINGNER & ASSOCIATES, P.C.
Engineers • Architects • Surveyors
www.klingner.com
Quincy, Illinois
616 North 24th Street
217-223-7373
Hannibal, MO Burlington, IA
Galesburg, IL Fulton, IL Columbia, MO
Bloomington, IL Springfield, IL

ENTRANCES - RTE 5 (CONTINUED)

LOG MILE	LOCATION	ENTRANCE MATERIAL TYPE	AREA SQ. FT.	LENGTH FEET	DEPTH OF ENTRANCE OVERLAY IN.	GRAVEL A OR CR. STONE B 1.40 TON/CY TONS	BITUMINOUS MIX (SURF. LEVELING) 1.948 TON/CY TONS	TACK COAT 0.10 GAL/SY GAL	MODIFIED COLDMILLING (DEPTH TRANS) SQ. YD.	REMARKS
133.382	RTE 5 - LT	AGGR.	156.0	2.0	1.00	0.67	-	-	-	P.E.
133.505	RTE 5 - LT	AGGR.	46.0	2.0	1.00	0.20	-	-	-	P.E.
133.703	RTE 5 - RT	AGGR.	156.0	2.0	1.00	0.67	-	-	-	P.E.
133.929	RTE 5 - LT	AGGR.	34.0	2.0	1.00	0.15	-	-	-	P.E.
134.107	RTE 5 - LT	AGGR.	101.0	2.0	1.00	0.44	-	-	-	P.E.
134.107	RTE 5 - RT	AGGR.	60.0	2.0	1.00	0.26	-	-	-	P.E.
134.613	RTE 5 - RT	AGGR.	218.0	2.0	1.00	0.94	-	-	-	P.E.
134.707	RTE 5 - LT	AGGR.	142.0	2.0	1.00	0.61	-	-	-	P.E.
134.882	RTE 5 - LT	AGGR.	66.0	2.0	1.00	0.29	-	-	-	P.E.
134.882	RTE 5 - RT	AGGR.	88.0	2.0	1.00	0.38	-	-	-	P.E.
135.042	RTE 5 - LT	AGGR.	110.0	2.0	1.00	0.48	-	-	-	P.E.
135.042	RTE 5 - RT	AGGR.	44.0	2.0	1.00	0.19	-	-	-	P.E.
135.244	RTE 5 - LT	AGGR.	70.0	2.0	1.00	0.30	-	-	-	P.E.
135.407	RTE 5 - RT	ASPH.	5450.0	TO RADII	1.00	-	32.77	60.56	47.00	RTE J
135.516	RTE 5 - RT	AGGR.	54.0	2.0	1.00	0.23	-	-	-	P.E.
135.674	RTE 5 - LT	AGGR.	72.0	2.0	1.00	0.31	-	-	-	P.E.
135.721	RTE 5 - LT	AGGR.	64.0	2.0	1.00	0.28	-	-	-	P.E.
135.745	RTE 5 - LT	AGGR.	38.0	2.0	1.00	0.16	-	-	-	P.E.
135.949	RTE 5 - RT	AGGR.	34.0	2.0	1.00	0.15	-	-	-	P.E.
136.012	RTE 5 - LT	ASPH.	790.0	TO RADII	1.00	2.00	4.75	8.78	-	CO. RD. 423
136.155	RTE 5 - RT	AGGR.	60.0	2.0	1.00	0.26	-	-	-	P.E.
136.445	RTE 5 - RT	AGGR.	32.0	2.0	1.00	0.69	-	-	-	P.E.
136.603	RTE 5 - LT	AGGR.	86.0	2.0	1.00	1.86	-	-	-	P.E.
136.658	RTE 5 - RT	AGGR.	42.0	2.0	1.00	0.18	-	-	-	P.E.
136.773	RTE 5 - RT	AGGR.	26.0	2.0	1.00	0.11	-	-	-	P.E.
136.967	RTE 5 - LT	AGGR.	44.0	2.0	1.00	0.19	-	-	-	P.E.
137.039	RTE 5 - RT	AGGR.	28.0	2.0	1.00	0.12	-	-	-	P.E.
137.340	RTE 5 - RT	AGGR.	125.0	2.0	1.00	0.54	-	-	-	CO. RD. 320
137.558	RTE 5 - LT	ASPH.	1510.0	TO RADII	1.00	2.00	9.08	16.78	-	CO. RD. 426
137.615	RTE 5 - RT	AGGR.	82.0	2.0	1.00	0.35	-	-	-	P.E.
137.911	RTE 5 - RT	AGGR.	122.0	2.0	1.00	0.53	-	-	-	P.E.
137.972	RTE 5 - LT	AGGR.	54.0	2.0	1.00	0.23	-	-	-	P.E.
138.095	RTE 5 - RT	AGGR.	220.0	2.0	1.00	0.95	-	-	-	CO.RD. 324
138.491	RTE 5 - RT	AGGR.	40.0	2.0	1.00	0.17	-	-	-	P.E.
138.491	RTE 5 - LT	AGGR.	68.0	2.0	1.00	0.29	-	-	-	P.E.
138.630	RTE 5 - LT	ASPH.	850.0	TO RADII	1.00	1.15	5.11	9.44	-	CO. RD. 430
138.630	RTE 5 - RT	AGGR.	99.0	2.0	1.00	0.43	-	-	-	P.E.
138.931	RTE 5 - RT	AGGR.	46.0	2.0	1.00	0.20	-	-	-	P.E.
138.980	RTE 5 - LT	AGGR.	42.0	4.0	1.00	0.18	-	-	-	P.E.
139.106	RTE 5 - LT	AGGR.	60.0	2.0	1.00	0.26	-	-	-	P.E.
139.163	RTE 5 - RT	AGGR.	80.0	2.0	1.00	0.35	-	-	-	P.E.
139.163	RTE 5 - LT	AGGR.	32.0	2.0	1.00	0.14	-	-	-	P.E.
				RTE 5 SHEET 3:	SUB-TOTAL	19.90	51.71	95.56	47.00	

SUMMARY SHEET
SHEET 8 OF 17

STATE OF MISSOURI
CURTIS D. SCHENK
NUMBER
PE-2019029937
REGISTERED PROFESSIONAL ENGINEER

DATE PREPARED 7/28/2023
ROUTE 5/240 | STATE MO
DISTRICT CD | SHEET NO. 3
COUNTY HOWARD
JOB NO. J5P3517
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)

MISSOURI STATE CERTIFICATE OF AUTHORITY NO. 000866
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Quincy, Illinois
616 North 24th Street
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Galesburg, IL Fulton, IA Columbia, MO
Davenport, IA Keokuk, IA

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

ENTRANCES - RTE 5 (CONTINUED)

LOG MILE	LOCATION	ENTRANCE MATERIAL TYPE	AREA SQ. FT.	LENGTH FEET	DEPTH OF ENTRANCE OVERLAY IN.	GRAVEL A OR CR. STONE B 1.40 TON/CY TONS	BITUMINOUS MIX (SURF. LEVELING) 1.948 TON/CY TONS	TACK COAT 0.10 GAL/SY GAL	MODIFIED COLDMILLING (DEPTH TRANS) SQ. YD.	REMARKS
139.308	RTE 5 - RT	ASPH.	88.0	2.0	1.00	-	0.53	0.98	9.78	P.E.
139.448	RTE 5 - RT	AGGR.	210.0	4.0	1.00	0.91	-	-	-	CO. RD. 334
139.464	RTE 5 - LT	AGGR.	34.0	2.0	1.00	0.15	-	-	-	P.E.
139.615	RTE 5 - LT	ASPH.	72.0	2.0	1.00	-	0.43	0.80	8.00	P.E.
139.625	RTE 5 - RT	AGGR.	50.0	2.0	1.00	0.22	-	-	-	P.E.
139.631	RTE 5 - LT	AGGR.	28.0	2.0	1.00	0.12	-	-	-	P.E.
139.669	RTE 5 - RT	ASPH.	226.0	2.0	1.00	-	1.36	2.51	25.11	P.E.
139.742	RTE 5 - RT	ASPH.	56.0	2.0	1.00	-	0.34	0.62	6.22	P.E.
139.788	RTE 5 - RT	AGGR.	289.0	2.0	1.00	0.25	-	-	-	CO. RD. 334
139.818	RTE 5 - LT	AGGR.	66.0	2.0	1.00	R	-	-	-	P.E.
139.845	RTE 5 - RT	ASPH.	54.0	2.0	1.00	-	0.32	0.60	6.00	P.E.
140.030	RTE 5 - RT	ASPH.	48.0	2.0	1.00	-	0.29	0.53	5.33	P.E.
140.093	RTE 5 - RT	CONC.	142.0	2.0	1.00	-	0.85	1.58	-	P.E.
140.124	RTE 5 - RT	AGGR.	198.0	2.0	1.00	0.86	-	-	-	P.E.
140.128	RTE 5 - LT	AGGR.	24.0	2.0	1.00	0.10	-	-	-	P.E.
140.215	RTE 5 - RT	AGGR.	78.0	2.0	1.00	0.34	-	-	-	P.E.
140.255	RTE 5 - LT	AGGR.	150.0	2.0	1.00	0.65	-	-	-	CO. RD. 334A
140.272	RTE 5 - LT	AGGR.	130.0	2.0	1.00	0.56	-	-	-	CO. RD. 334A
140.363	RTE 5 - RT	AGGR.	48.0	2.0	1.00	0.21	-	-	-	P.E.
140.397	RTE 5 - LT	AGGR.	60.0	2.0	1.00	0.26	-	-	-	P.E.
140.443	RTE 5 - RT	AGGR.	160.0	2.0	1.00	0.69	-	-	-	P.E.
140.455	RTE 5 - LT	ASPH.	44.0	4.0	1.00	-	0.26	0.49	4.89	P.E.
140.538	RTE 5 - RT	AGGR.	120.0	2.0	1.00	0.52	-	-	-	P.E.
140.538	RTE 5 - LT	AGGR.	46.0	2.0	1.00	0.20	-	-	-	P.E.
140.584	RTE 5 - RT	AGGR.	50.0	2.0	1.00	0.22	-	-	-	P.E.
140.646	RTE 5 - RT	ASPH.	1300.0	TO RADII	1.00	0.25	7.82	14.44	-	CO. RD. 336
140.677	RTE 5 - LT	ASPH.	88.0	2.0	1.00	-	0.53	0.98	9.78	P.E.
140.817	RTE 5 - LT	AGGR.	72.0	2.0	1.00	0.31	-	-	-	P.E.
140.817	RTE 5 - RT	ASPH.	63.0	2.0	1.00	0.27	-	-	-	P.E.
141.003	RTE 5 - RT	AGGR.	50.0	2.0	1.00	0.22	-	-	-	P.E.
141.012	RTE 5 - LT	AGGR.	96.0	2.0	1.00	0.41	-	-	-	P.E.
141.091	RTE 5 - LT	AGGR.	50.0	2.0	1.00	0.22	-	-	-	P.E.
141.122	RTE 5 - RT	AGGR.	30.0	2.0	1.00	0.13	-	-	-	P.E.
141.159	RTE 5 - RT	AGGR.	125.0	2.0	1.00	0.54	-	-	-	STAGE COACH RD.
141.166	RTE 5 - LT	AGGR.	58.0	2.0	1.00	0.25	-	-	-	P.E.
141.174	RTE 5 - LT	AGGR.	54.0	2.0	1.00	0.23	-	-	-	P.E.
141.193	RTE 5 - LT	AGGR.	32.0	2.0	1.00	0.14	-	-	-	P.E.
141.193	RTE 5 - RT	ASPH.	68.0	4.0	1.00	-	0.41	0.76	7.56	P.E.
141.207	RTE 5 - LT	AGGR.	36.0	2.0	1.00	0.16	-	-	-	P.E.
141.207	RTE 5 - RT	ASPH.	58.0	2.0	1.00	-	0.35	0.64	6.44	P.E.
141.241	RTE 5 - LT	AGGR.	75.0	4.0	1.00	0.32	-	-	-	P.E.
141.241	RTE 5 - RT	AGGR.	113.0	2.0	1.00	0.49	-	-	-	P.E.
141.270	RTE 5 - LT	AGGR.	94.0	2.0	1.00	0.41	-	-	-	P.E.
				RTE 5 SHEET 4:	SUB-TOTAL	10.59	13.49	24.93	89.11	

SUMMARY SHEET
SHEET 9 OF 17

STATE OF MISSOURI
CURTIS D. SCHENK
NUMBER
PE-2019029937
REGISTERED PROFESSIONAL ENGINEER

DATE PREPARED
7/28/2023

ROUTE	STATE
5/240	MO
DISTRICT CD	SHEET NO. 3

COUNTY
HOWARD

JOB NO.
J5P3517

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)

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Gallatin, IL Fulton, MO Columbia, MO
Dayton, OH Cincinnati, OH

ENTRANCES - RTE 5 (CONTINUED)

LOG MILE	LOCATION	ENTRANCE MATERIAL TYPE	AREA SQ. FT.	LENGTH FEET	DEPTH OF ENTRANCE OVERLAY IN.	GRAVEL A OR CR. STONE B 1.40 TON/CY TONS	BITUMINOUS MIX (SURF. LEVELING) 1.948 TON/CY TONS	TACK COAT 0.10 GAL/SY GAL	MODIFIED COLD MILLING (DEPTH TRANSITION) SQ. YD.	REMARKS
141.285	RTE 5 - LT	CONC.	60.0	2.0	1.00	-	0.36	0.67	-	P.E.
141.302	RTE 5 - LT	AGGR.	56.0	2.0	1.00	0.24	-	-	-	P.E.
141.326	RTE 5 - LT	AGGR.	22.0	2.0	1.00	0.10	-	-	-	P.E.
141.333	RTE 5 - LT	AGGR.	24.0	2.0	1.00	0.10	-	-	-	P.E.
141.333	RTE 5 - RT	ASPH.	70.0	4.0	1.00	-	0.42	0.78	7.78	P.E.
141.356	RTE 5 - LT	ASPH.	138.0	4.0	1.00	-	0.83	1.53	15.33	MCCULLEY ST.
141.378	RTE 5 - RT	AGGR.	39.0	2.0	1.00	0.17	-	-	-	P.E.
141.382	RTE 5 - LT	AGGR.	28.0	2.0	1.00	0.12	-	-	-	P.E.
141.404	RTE 5 - LT	AGGR.	35.0	2.0	1.00	0.15	-	-	-	P.E.
141.415	RTE 5 - RT	AGGR.	21.0	2.0	1.00	0.09	-	-	-	P.E.
141.436	RTE 5 - RT	AGGR.	31.0	2.0	1.00	0.13	-	-	-	P.E.
141.471	RTE 5 - LT	AGGR.	54.0	2.0	1.00	0.23	-	-	-	P.E.
141.475	RTE 5 - RT	AGGR.	28.0	2.0	1.00	0.12	-	-	-	P.E.
141.487	RTE 5 - LT	CONC.	68.0	2.0	1.00	-	0.41	0.76	7.56	P.E.
141.492	RTE 5 - RT	CONC.	50.0	2.0	1.00	-	0.30	0.56	5.56	P.E.
141.501	RTE 5 - LT	AGGR.	34.0	2.0	1.00	0.15	-	-	-	P.E.
141.501	RTE 5 - RT	AGGR.	32.0	2.0	1.00	0.14	-	-	-	P.E.
141.509	RTE 5 - LT	AGGR.	40.0	2.0	1.00	0.17	-	-	-	P.E.
141.514	RTE 5 - RT	AGGR.	34.0	2.0	1.00	0.15	-	-	-	P.E.
141.528	RTE 5 - RT	AGGR.	30.0	2.0	1.00	0.13	-	-	-	P.E.
141.535	RTE 5 - LT	AGGR.	22.0	2.0	1.00	0.10	-	-	-	P.E.
141.537	RTE 5 - LT	AGGR.	32.0	2.0	1.00	0.14	-	-	-	P.E.
141.537	RTE 5 - RT	AGGR.	46.0	2.0	1.00	0.20	-	-	-	P.E.
141.567	RTE 5 - RT	ASPH.	222.0	4.0	1.00	-	1.33	2.47	24.67	COURT ST.
142.510	RTE 5 - RT	CONC.	76.0	2.0	1.00	-	0.46	0.84	-	P.E.
142.526	RTE 5 - RT	AGGR.	64.0	2.0	1.00	0.28	-	-	-	P.E.
142.836	RTE 5 - LT	ASPH.	150.0	2.0	1.00	-	0.90	1.67	16.67	P.E.
143.139	RTE 5 - RT	AGGR.	88.0	2.0	1.00	0.38	-	-	-	P.E.
				RTE 5 SHEET 1: SUB-TOTAL		16.23	60.08	111.03	460.00	
				RTE 5 SHEET 2: SUB-TOTAL		19.06	59.12	109.26	349.67	
				RTE 5 SHEET 3: SUB-TOTAL		19.90	51.71	95.56	47.00	
				RTE 5 SHEET 4: SUB-TOTAL		10.59	13.49	24.93	89.11	
				RTE 5 SHEET 5: SUB-TOTAL		3.28	5.01	9.27	77.56	
					RTE 5 TOTALS	**69.06**	**189.41**	**350.04**	**1023.33**	

SUMMARY SHEET
SHEET 10 OF 17

STATE OF MISSOURI
CURTIS D. SCHENK
NUMBER
PE-2019029937
REGISTERED PROFESSIONAL ENGINEER

DATE PREPARED
7/28/2023

ROUTE	STATE
5/240	MO
DISTRICT	SHEET NO.
CD	3

COUNTY
HOWARD

JOB NO.
J5P3517

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)

MISSOURI STATE CERTIFICATE OF AUTHORITY NO. 000866
KLINGNER & ASSOCIATES, P.C.
Engineers • Architects • Surveyors
www.klingner.com
Quincy, Illinois
616 North 24th Street
217.222.0570
Hannibal, MO Burlington, IA
Galesburg, IL Fort Madison, IA
Columbia, MO
Davenport, IA Clinton, IA

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

ENTRANCES - RTE 240

LOG MILE	LOCATION	ENTRANCE MATERIAL TYPE	AREA SQ. FT.	LENGTH FEET	DEPTH OF ENTRANCE OVERLAY IN.	GRAVEL A OR CR. STONE B 1.40 TON/CY TONS	BITUMINOUS MIX (SURF. LEVELING) 1.948 TON/CY TONS	TACK COAT 0.10 GAL/SY GAL	MODIFIED COLDMILLING (DEPTH TRANS) SQ. YD.	REMARKS
38.398	RTE 240 - LT	CONC.	22.0	2.0	1.00	-	0.13	0.24	-	P.E.
38.416	RTE 240 - RT	CONC.	140.0	2.0	1.00	-	0.84	1.56	-	P.E.
38.416	RTE 240 - LT	CONC.	38.0	2.0	1.00	-	0.23	0.42	-	P.E.
38.438	RTE 240 - RT	ASPH.	32.0	2.0	1.00	-	0.19	0.36	3.56	P.E.
38.439	RTE 240 - LT	CONC.	30.0	2.0	1.00	0.13	0.18	0.33	-	P.E.
38.458	RTE 240 - RT	CONC.	54.0	2.0	1.00	0.23	0.32	0.60	-	P.E.
38.458	RTE 240 - LT	AGGR.	38.0	2.0	1.00	0.16	-	-	-	P.E.
38.478	RTE 240 - RT	ASPH.	50.0	2.0	1.00	-	0.30	0.56	5.56	P.E.
38.478	RTE 240 - LT	CONC.	36.0	2.0	1.00	-	0.22	0.40	-	P.E.
38.498	RTE 240 - RT	ASPH.	81.0	2.0	1.00	-	0.49	0.90	9.00	P.E.
38.518	RTE 240 - RT	AGGR.	44.0	2.0	1.00	0.19	-	-	-	P.E.
38.518	RTE 240 - LT	CONC.	30.0	2.0	1.00	-	0.18	0.33	-	P.E.
38.538	RTE 240 - RT	CONC.	28.0	2.0	1.00	-	0.17	0.31	-	P.E.
38.558	RTE 240 - LT	ASPH.	78.0	4.0	1.00	-	0.47	0.87	8.67	CORPREW AVE.
38.579	RTE 240 - RT	AGGR.	28.0	2.0	1.00	-	0.17	0.31	3.11	P.E.
38.579	RTE 240 - LT	CONC.	64.0	2.0	1.00	-	0.38	0.71	-	P.E.
38.608	RTE 240 - LT	CONC.	70.0	4.0	1.00	-	0.42	0.78	-	COLLEGE AVE.
38.625	RTE 240 - RT	CONC.	31.0	2.0	1.00	-	0.19	0.34	-	P.E.
38.638	RTE 240 - RT	CONC.	28.0	2.0	1.00	-	0.17	0.31	-	P.E.
38.677	RTE 240 - RT	CONC.	24.0	2.0	1.00	-	0.14	0.27	-	P.E.
38.677	RTE 240 - LT	ASPH.	68.0	2.0	1.00	-	0.41	0.76	7.56	P.E.
38.696	RTE 240 - RT	AGGR.	29.0	2.0	1.00	0.13	-	-	-	P.E.
40.138	RTE 240 - LT	ASPH.	4500.0	TO RADI	1.00	-	27.06	50.00	23.00	HWY. 124
40.438	RTE 240 - LT	AGGR.	46.0	2.0	1.00	0.20	-	-	-	P.E.
40.458	RTE 240 - RT	ASHP.	48.0	2.0	1.00	-	0.29	0.53	5.33	P.E.
40.498	RTE 240 - RT	AGGR.	214.0	2.0	1.00	0.92	-	-	-	P.E.
40.500	RTE 240 - LT	AGGR.	142.0	2.0	1.00	0.61	-	-	-	P.E.
40.518	RTE 240 - RT	CONC.	156.0	2.0	1.00	-	0.94	1.73	-	P.E.
40.558	RTE 240 - LT	ASPH.	4525.0	TO RADI	1.00	-	27.21	50.28	27.00	RTE W
40.579	RTE 240 - RT	AGGR.	118.0	2.0	1.00	0.51	-	-	-	P.E.
40.585	RTE 240 - RT	CONC.	120.0	2.0	1.00	-	0.72	1.33	-	P.E.
40.659	RTE 240 - LT	CONC.	92.0	2.0	1.00	-	0.55	1.02	-	P.E.
40.679	RTE 240 - RT	CONC.	82.0	2.0	1.00	-	0.49	0.91	-	P.E.
40.698	RTE 240 - RT	CONC.	58.0	2.0	1.00	-	0.35	0.64	-	P.E.
40.739	RTE 240 - RT	CONC.	64.0	2.0	1.00	-	0.38	0.71	-	P.E.
40.739	RTE 240 - LT	AGGR.	34.0	2.0	1.00	0.15	-	-	-	P.E.
40.758	RTE 240 - RT	AGGR.	108.0	2.0	1.00	0.47	-	-	-	P.E.
40.839	RTE 240 - RT	AGGR.	110.0	2.0	1.00	0.48	-	-	-	P.E.
40.839	RTE 240 - LT	AGGR.	142.0	2.0	1.00	0.61	-	-	-	P.E.
40.849	RTE 240 - RT	AGGR.	40.0	2.0	1.00	0.17	-	-	-	P.E.
40.908	RTE 240 - LT	AGGR.	70.0	2.0	1.00	0.30	-	-	-	P.E.
40.938	RTE 240 - LT	AGGR.	38.0	2.0	1.00	0.16	-	-	-	P.E.
41.078	RTE 240 - LT	AGGR.	100.0	2.0	1.00	0.43	-	-	-	P.E.
41.157	RTE 240 - RT	AGGR.	36.0	2.0	1.00	0.16	-	-	-	P.E.
41.157	RTE 240 - LT	CONC.	86.0	2.0	1.00	-	0.52	0.96	-	P.E.
41.357	RTE 240 - RT	AGGR.	44.0	2.0	1.00	0.19	-	-	-	P.E.
41.476	RTE 240 - RT	AGGR.	96.0	2.0	1.00	0.41	-	-	-	P.E.
41.476	RTE 240 - LT	AGGR.	82.0	2.0	1.00	0.35	-	-	-	P.E.
41.556	RTE 240 - RT	AGGR.	94.0	2.0	1.00	0.41	-	-	-	P.E.
41.618	RTE 240 - LT	AGGR.	56.0	2.0	1.00	0.24	-	-	-	P.E.
41.658	RTE 240 - LT	AGGR.	82.0	2.0	1.00	0.35	-	-	-	P.E.
				RTE 240 SHEET 1: SUB-TOTAL		7.98	64.11	118.48	92.78	

SUMMARY SHEET
SHEET 11 OF 17

STATE OF MISSOURI
CURTIS D. SCHENK
NUMBER PE-2019029937
REGISTERED PROFESSIONAL ENGINEER

DATE PREPARED 7/28/2023
ROUTE 5/240 | STATE MO
DISTRICT CD | SHEET NO. 3
COUNTY HOWARD
JOB NO. J5P3517
CONTRACT ID.
PROJECT NO.
BRIDGE NO.

DATE	DESCRIPTION

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

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Springfield, MO Springfield, IL

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ENTRANCES - ROUTE 240 (CONTINUED)

LOG MILE	LOCATION	ENTRANCE MATERIAL TYPE	AREA SQ. FT.	LENGTH FEET	AVE. DEPTH OF ENTRANCE OVERLAY IN.	GRAVEL A OR CR. STONE B 1.40 TON/CY TONS	BITUMINOUS MIX (SURF. LEVELING) 1.948 TON/CY TONS	TACK COAT 0.10 GAL/SY GAL	MODIFIED COLDMILLING (DEPTH TRANS) SQ. YD.	REMARKS
41.678	RTE 240 - RT	AGGR.	50.0	2.0	1.00	0.22	-	-	-	P.E.
41.946	RTE 240 - RT	AGGR.	125.0	2.0	1.00	0.54	-	-	-	CO. RD. 401
41.976	RTE 240 - LT	AGGR.	48.0	2.0	1.00	0.21	-	-	-	P.E.
42.060	RTE 240 - LT	AGGR.	66.0	2.0	1.00	0.29	-	-	-	P.E.
42.196	RTE 240 - RT	AGGR.	62.0	2.0	1.00	0.27	-	-	-	P.E.
42.296	RTE 240 - LT	AGGR.	62.0	2.0	1.00	0.27	-	-	-	P.E.
42.296	RTE 240 - RT	AGGR.	58.0	2.0	1.00	0.25	-	-	-	P.E.
42.376	RTE 240 - RT	AGGR.	44.0	2.0	1.00	0.19	-	-	-	P.E.
42.380	RTE 240 - RT	AGGR.	82.0	2.0	1.00	0.35	-	-	-	F.E.
42.515	RTE 240 - RT	AGGR.	104.0	2.0	1.00	0.45	-	-	-	F.E.
42.654	RTE 240 - RT	AGGR.	36.0	2.0	1.00	0.16	-	-	-	P.E.
42.680	RTE 240 - RT	AGGR.	42.0	2.0	1.00	0.18	-	-	-	P.E.
42.754	RTE 240 - RT	AGGR.	142.0	2.0	1.00	0.61	-	-	-	CO. RD. 422
42.760	RTE 240 - LT	AGGR.	135.0	2.0	1.00	0.58	-	-	-	CO. RD. 419
43.258	RTE 240 - RT	AGGR.	98.0	2.0	1.00	0.42	-	-	-	P.E.
43.297	RTE 240 - RT	AGGR.	48.0	2.0	1.00	0.21	-	-	-	F.E.
43.523	RTE 240 - RT	AGGR.	82.0	2.0	1.00	0.35	-	-	-	P.E.
43.523	RTE 240 - LT	AGGR.	56.0	2.0	1.00	0.24	-	-	-	C.E.
43.814	RTE 240 - LT	AGGR.	26.0	2.0	1.00	0.11	-	-	-	P.E.
43.873	RTE 240 - LT	AGGR.	140.0	2.0	1.00	0.60	-	-	-	CO. RD. 412
44.124	RTE 240 - RT	AGGR.	68.0	2.0	1.00	0.29	-	-	-	P.E.
44.167	RTE 240 - RT	AGGR.	66.0	2.0	1.00	0.29	-	-	-	P.E.
44.293	RTE 240 - RT	CONC.	102.0	2.0	1.00	-	0.61	1.13	-	P.E.
44.481	RTE 240 - LT	AGGR.	22.0	2.0	1.00	0.10	-	-	-	P.E.
44.615	RTE 240 - RT	AGGR.	68.0	4.0	1.00	0.29	-	-	-	P.E.
44.634	RTE 240 - LT	AGGR.	80.0	2.0	1.00	0.35	-	-	-	P.E.
44.901	RTE 240 - RT	AGGR.	84.0	4.0	1.00	0.36	-	-	-	P.E.
44.922	RTE 240 - LT	AGGR.	56.0	2.0	1.00	0.24	-	-	-	P.E.
45.152	RTE 240 - RT	AGGR.	146.0	2.0	1.00	0.63	-	-	-	P.E.
45.152	RTE 240 - LT	CONC.	130.0	2.0	1.00	-	0.78	1.44	-	P.E.
45.396	RTE 240 - RT	CONC.	98.0	2.0	1.00	-	0.59	1.09	-	P.E.
45.471	RTE 240 - LT	AGGR.	161.0	2.0	1.00	0.70	-	-	-	P.E.
45.596	RTE 240 - RT	AGGR.	83.0	2.0	1.00	0.36	-	-	-	P.E.
45.598	RTE 240 - LT	AGGR.	81.0	2.0	1.00	0.35	-	-	-	P.E.
45.872	RTE 240 - LT	AGGR.	76.0	2.0	1.00	0.33	-	-	-	P.E.
46.091	RTE 240 - LT	AGGR.	358.0	2.0	1.00	1.55	-	-	-	CO. RD. 434
46.091	RTE 240 - RT	AGGR.	112.0	2.0	1.00	0.48	-	-	-	P.E.
46.488	RTE 240 - RT	AGGR.	78.0	2.0	1.00	0.34	-	-	-	P.E.
46.629	RTE 240 - RT	AGGR.	222.0	2.0	1.00	0.96	-	-	-	CO. RD. 432
46.711	RTE 240 - RT	AGGR.	112.0	2.0	1.00	0.48	-	-	-	P.E.
46.751	RTE 240 - LT	AGGR.	82.0	2.0	1.00	0.35	-	-	-	P.E.
47.103	RTE 240 - LT	AGGR.	72.0	2.0	1.00	0.31	-	-	-	P.E.
47.110	RTE 240 - RT	AGGR.	97.0	2.0	1.00	0.42	-	-	-	P.E.
47.172	RTE 240 - LT	AGGR.	201.0	2.0	1.00	0.87	-	-	-	P.E.
47.311	RTE 240 - LT	AGGR.	74.0	2.0	1.00	0.32	-	-	-	P.E.
47.390	RTE 240 - LT	AGGR.	36.0	2.0	1.00	0.16	-	-	-	P.E.
47.451	RTE 240 - RT	ASPH.	4250.0	TO RADI	1.00	-	25.55	47.22	22.20	RTE P
47.451	RTE 240 - LT	AGGR.	82.0	2.0	1.00	0.35	-	-	-	P.E.
47.453	RTE 240 - RT	AGGR.	141.0	2.0	1.00	0.61	-	-	-	P.E.
47.751	RTE 240 - LT	AGGR.	42.0	2.0	1.00	0.18	-	-	-	P.E.
47.751	RTE 240 - RT	AGGR.	92.0	2.0	1.00	0.40	-	-	-	P.E.
47.952	RTE 240 - RT	AGGR.	64.0	2.0	1.00	0.28	-	-	-	P.E.
				RTE 240 SHEET 2: SUB-TOTAL		18.85	27.54	50.89	22.20	

SUMMARY SHEET
SHEET 12 OF 17

STATE OF MISSOURI
CURTIS D. SCHENK
NUMBER
PE-2019029937
REGISTERED PROFESSIONAL ENGINEER

DATE PREPARED 7/28/2023
ROUTE 5/240 | STATE MO
DISTRICT CD | SHEET NO. 3
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ENTRANCES - ALTERNATE RTE 240

LOG MILE	LOCATION	ENTRANCE MATERIAL TYPE	AREA SQ. FT.	LENGTH FEET	DEPTH OF ENTRANCE OVERLAY IN.	GRAVEL A OR CR. STONE B 1.40 TON/CY TONS	REMARKS
0.168	ALT RTE 240 - LT	AGGR.	51.0	2.0	1.00	0.22	P.E.
0.244	ALT RTE 240 - LT	AGGR.	144.0	2.0	1.00	0.62	CO. RD. 435
0.249	ALT RTE 240 - RT	AGGR.	186.0	2.0	1.00	0.80	CO. RD. 442
0.255	ALT RTE 240 - LT	AGGR.	206.0	2.0	1.00	0.89	CO. RD. 435A
0.492	ALT RTE 240 - LT	AGGR.	46.0	2.0	1.00	0.20	P.E.
0.550	ALT RTE 240 - RT	AGGR.	52.0	2.0	1.00	0.22	P.E.
0.594	ALT RTE 240 - RT	AGGR.	150.0	4.0	1.00	0.65	P.E.
0.668	ALT RTE 240 - RT	AGGR.	56.0	2.0	1.00	0.24	P.E.
			RTE 240 ALTERNATE TOTAL			3.85	

ENTRANCE TOTALS

ROUTE	GRAVEL A OR CR. STONE B 1.40 TON/CY TONS	BITUMINOUS MIX (SURF. LEVELING) 1.948 TON/CY TONS	TACK COAT 0.10 GAL/SY GAL	MODIFIED COLDMILLING (DEPTH TRANS) SQ. YD.	REMARKS
RTE 5 TOTAL	69.06	189.41	350.04	1023.33	
RTE 240 TOTAL	37.61	116.48	215.27	173.98	
ALT RTE 240 TOTAL	3.85	-	-	-	
ALL ROUTES TOTAL	**110.52**	**305.90**	**565.31**	**1197.31**	
ALL ROUTES USE	**111**	**305.9**	**565**	**1198**	

ENTRANCES - RTE 240 (CONTINUED)

LOG MILE	LOCATION	ENTRANCE MATERIAL TYPE	AREA SQ. FT.	LENGTH FEET	DEPTH OF ENTRANCE OVERLAY IN.	GRAVEL A OR CR. STONE B 1.40 TON/CY TONS	BITUMINOUS MIX (SURF. LEVELING) 1.948 TON/CY TONS	TACK COAT 0.10 GAL/SY GAL	MODIFIED COLDMILLING (DEPTH TRANS) SQ. YD.	REMARKS
48.190	RTE 240 - LT	AGGR.	70.0	2.0	1.00	0.30	-	-	-	P.E.
48.250	RTE 240 - LT	AGGR.	48.0	2.0	1.00	0.21	-	-	-	P.E.
48.250	RTE 240 - RT	AGGR.	192.0	2.0	1.00	0.83	-	-	-	CO. RD. 449
48.491	RTE 240 - LT	AGGR.	78.0	2.0	1.00	0.34	-	-	-	P.E.
48.575	RTE 240 - LT	AGGR.	482.0	2.0	1.00	2.08	-	-	-	CO. RD. 436
48.732	RTE 240 - RT	AGGR.	28.0	2.0	1.00	0.12	-	-	-	P.E.
49.030	RTE 240 - RT	AGGR.	38.0	2.0	1.00	0.16	-	-	-	P.E.
49.570	RTE 240 - LT	AGGR.	48.0	2.0	1.00	0.21	-	-	-	P.E.
49.712	RTE 240 - RT	AGGR.	36.0	2.0	1.00	0.16	-	-	-	P.E.
49.712	RTE 240 - LT	AGGR.	35.0	2.0	1.00	0.15	-	-	-	P.E.
49.973	RTE 240 - RT	AGGR.	48.0	2.0	1.00	0.21	-	-	-	P.E.
50.253	RTE 240 - LT	AGGR.	46.0	2.0	1.00	0.20	-	-	-	P.E.
50.493	RTE 240 - LT	AGGR.	170.0	2.0	1.00	0.73	-	-	-	P.E.
50.513	RTE 240 - RT	ASPH.	28.0	2.0	1.00	-	0.17	0.31	3.11	P.E.
50.526	RTE 240 - RT	ASPH.	42.0	2.0	1.00	-	0.25	0.47	4.67	P.E.
50.566	RTE 240 - RT	ASPH.	38.0	2.0	1.00	-	0.23	0.42	4.22	P.E.
50.692	RTE 240 - RT	AGGR.	42.0	2.0	1.00	0.18	-	-	-	P.E.
50.741	RTE 240 - LT	AGGR.	32.0	2.0	1.00	0.14	-	-	-	P.E.
50.761	RTE 240 - RT	AGGR.	38.0	2.0	1.00	0.16	-	-	-	P.E.
50.873	RTE 240 - LT	AGGR.	68.0	2.0	1.00	0.29	-	-	-	P.E.
51.021	RTE 240 - LT	AGGR.	102.0	2.0	1.00	0.44	-	-	-	P.E.
51.137	RTE 240 - RT	ASPH.	1600.0	TO RAD	1.00	-	9.62	17.78	22.00	ALT. 240 SPUR
51.214	RTE 240 - LT	AGGR.	156.0	2.0	1.00	0.67	-	-	-	P.E.
51.214	RTE 240 - RT	ASPH.	2365.0	TO RAD	1.00	-	14.22	26.28	25.00	ALT. 240 SPUR
51.295	RTE 240 - RT	AGGR.	51.0	2.0	1.00	0.22	-	-	-	P.E.
51.370	RTE 240 - LT	AGGR.	86.0	2.0	1.00	0.37	-	-	-	P.E.
51.490	RTE 240 - LT	CONC.	58.0	2.0	1.00	-	0.35	0.64	-	P.E.
51.590	RTE 240 - RT	AGGR.	96.0	2.0	1.00	0.41	-	-	-	P.E.
51.626	RTE 240 - LT	AGGR.	56.0	2.0	1.00	0.24	-	-	-	P.E.
51.690	RTE 240 - LT	AGGR.	112.0	2.0	1.00	0.48	-	-	-	P.E.
51.690	RTE 240 - RT	AGGR.	206.0	2.0	1.00	0.89	-	-	-	P.E.
51.750	RTE 240 - LT	AGGR.	84.0	2.0	1.00	0.36	-	-	-	P.E.
51.750	RTE 240 - RT	AGGR.	46.0	2.0	1.00	0.20	-	-	-	P.E.
				RTE 240 SHEET 1: SUB-TOTAL		7.98	64.11	118.48	92.78	
				RTE 240 SHEET 2: SUB-TOTAL		18.85	27.54	50.89	22.20	
				RTE 240 SHEET 3: SUB-TOTAL		10.78	24.84	45.90	59.00	
					RTE 240 TOTAL	**37.61**	**116.48**	**215.27**	**173.98**	

SUMMARY SHEET
SHEET 13 OF 17

STATE OF MISSOURI
CURTIS D. SCHENK
NUMBER PE-2019029937
REGISTERED PROFESSIONAL ENGINEER

DATE PREPARED 7/28/2023
ROUTE 5/240 | STATE MO
DISTRICT CD | SHEET NO. 3
COUNTY HOWARD
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MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

MISSOURI STATE CERTIFICATE OF AUTHORITY NO. 000866
KLINGNER & ASSOCIATES, P.C.
Engineers • Architects • Surveyors
www.klingner.com
Quincy, Illinois
616 North 24th Street
217-223-7373
Hannibal, MO Burlington, IA
Galesburg, IL Fulton, MO Columbia, MO
Bloomington, IL Cincinnati, IL

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

FULL DEPTH PAVEMENT REPAIR

LOG MILE	ROUTE	LANE	LENGTH FT	WIDTH FT	FURN. & PLACE CONC. MTRL FOR FULL DEPTH REPAIR SY	SAWCUT (PERIMETER & INTERNAL) LF	DOWEL BARS EACH	SUBGRADE COMPACTION * SY	REMARKS
131.583	5	BOTH	10	24	26.67	58	40	2.7	LOCATION TO BE VERIFIED BY ENGINEER
131.625	5	SB	6	12	8.00	30	20	0.8	LOCATION TO BE VERIFIED BY ENGINEER
131.818	5	BOTH	8	24	21.33	56	40	2.1	LOCATION TO BE VERIFIED BY ENGINEER
131.902	5	BOTH	6	24	16.00	54	20	1.6	LOCATION TO BE VERIFIED BY ENGINEER
132.349	5	BOTH	6	24	16.00	54	20	1.6	LOCATION TO BE VERIFIED BY ENGINEER
132.442	5	SB	6	12	8.00	30	20	0.8	LOCATION TO BE VERIFIED BY ENGINEER
132.449	5	SB	6	12	8.00	30	20	0.8	LOCATION TO BE VERIFIED BY ENGINEER
132.512	5	SB	6	12	8.00	30	20	0.8	LOCATION TO BE VERIFIED BY ENGINEER
132.630	5	BOTH	6	24	16.00	54	40	1.6	LOCATION TO BE VERIFIED BY ENGINEER
132.661	5	BOTH	6	24	16.00	54	40	1.6	LOCATION TO BE VERIFIED BY ENGINEER
132.700	5	BOTH	6	24	16.00	54	20	1.6	LOCATION TO BE VERIFIED BY ENGINEER
132.705	5	SB	6	12	8.00	30	20	0.8	LOCATION TO BE VERIFIED BY ENGINEER
132.730	5	BOTH	6	24	16.00	54	20	1.6	LOCATION TO BE VERIFIED BY ENGINEER
132.738	5	BOTH	6	24	16.00	54	20	1.6	LOCATION TO BE VERIFIED BY ENGINEER
132.758	5	SB	12	12	16.00	36	20	1.6	LOCATION TO BE VERIFIED BY ENGINEER
132.797	5	BOTH	6	24	16.00	54	40	1.6	LOCATION TO BE VERIFIED BY ENGINEER
132.904	5	SB	6	12	8.00	30	20	0.8	LOCATION TO BE VERIFIED BY ENGINEER
132.925	5	BOTH	6	24	16.00	54	20	1.6	LOCATION TO BE VERIFIED BY ENGINEER
133.092	5	NB	6	12	8.00	30	20	0.8	LOCATION TO BE VERIFIED BY ENGINEER
133.311	5	SB	6	12	8.00	30	10	0.8	LOCATION TO BE VERIFIED BY ENGINEER
133.332	5	BOTH	6	24	16.00	54	40	1.6	LOCATION TO BE VERIFIED BY ENGINEER
133.653	5	BOTH	6	24	16.00	54	20	1.6	LOCATION TO BE VERIFIED BY ENGINEER
133.630	5	NB	6	12	8.00	30	20	0.8	LOCATION TO BE VERIFIED BY ENGINEER
133.592	5	SB	6	12	8.00	30	20	0.8	LOCATION TO BE VERIFIED BY ENGINEER
133.585	5	BOTH	6	24	16.00	54	20	1.6	LOCATION TO BE VERIFIED BY ENGINEER
133.552	5	NB	6	12	8.00	30	20	0.8	LOCATION TO BE VERIFIED BY ENGINEER
133.489	5	BOTH	6	24	16.00	54	20	1.6	LOCATION TO BE VERIFIED BY ENGINEER
133.451	5	BOTH	8	24	21.33	56	20	2.1	LOCATION TO BE VERIFIED BY ENGINEER
133.790	5	SB	6	12	8.00	30	20	0.8	LOCATION TO BE VERIFIED BY ENGINEER
133.820	5	BOTH	6	24	16.00	54	40	1.6	LOCATION TO BE VERIFIED BY ENGINEER
133.858	5	BOTH	6	24	16.00	54	40	1.6	LOCATION TO BE VERIFIED BY ENGINEER
133.899	5	BOTH	6	24	16.00	54	40	1.6	LOCATION TO BE VERIFIED BY ENGINEER
133.913	5	SB	6	12	8.00	30	20	0.8	LOCATION TO BE VERIFIED BY ENGINEER
134.219	5	BOTH	6	24	16.00	54	40	1.6	LOCATION TO BE VERIFIED BY ENGINEER
134.280	5	BOTH	6	24	16.00	54	40	1.6	LOCATION TO BE VERIFIED BY ENGINEER
134.444	5	BOTH	6	24	16.00	54	40	1.6	LOCATION TO BE VERIFIED BY ENGINEER
134.543	5	BOTH	6	24	16.00	54	40	1.6	LOCATION TO BE VERIFIED BY ENGINEER
134.573	5	BOTH	6	24	16.00	54	40	1.6	LOCATION TO BE VERIFIED BY ENGINEER
134.717	5	BOTH	6	24	16.00	54	40	1.6	LOCATION TO BE VERIFIED BY ENGINEER
134.778	5	BOTH	6	24	16.00	54	40	1.6	LOCATION TO BE VERIFIED BY ENGINEER
134.802	5	BOTH	6	24	16.00	54	40	1.6	LOCATION TO BE VERIFIED BY ENGINEER
135.005	5	BOTH	6	24	16.00	54	40	1.6	LOCATION TO BE VERIFIED BY ENGINEER
135.105	5	BOTH	6	24	16.00	54	40	1.6	LOCATION TO BE VERIFIED BY ENGINEER
135.153	5	BOTH	6	24	16.00	54	40	1.6	LOCATION TO BE VERIFIED BY ENGINEER
135.248	5	BOTH	6	24	16.00	54	40	1.6	LOCATION TO BE VERIFIED BY ENGINEER
135.278	5	NB	6	12	8.00	30	20	0.8	LOCATION TO BE VERIFIED BY ENGINEER
135.336	5	BOTH	6	24	16.00	54	40	1.6	LOCATION TO BE VERIFIED BY ENGINEER
135.374	5	BOTH	6	24	16.00	54	40	1.6	LOCATION TO BE VERIFIED BY ENGINEER
135.459	5	SB	6	12	8.00	30	20	0.8	LOCATION TO BE VERIFIED BY ENGINEER
135.470	5	BOTH	6	24	16.00	54	40	1.6	LOCATION TO BE VERIFIED BY ENGINEER
135.497	5	SB	6	12	8.00	30	20	0.8	LOCATION TO BE VERIFIED BY ENGINEER
135.539	5	BOTH	6	24	16.00	54	40	1.6	LOCATION TO BE VERIFIED BY ENGINEER
135.858	5	BOTH	6	24	16.00	54	40	1.6	LOCATION TO BE VERIFIED BY ENGINEER
135.886	5	BOTH	6	24	16.00	54	40	1.6	LOCATION TO BE VERIFIED BY ENGINEER
135.930	5	BOTH	6	24	16.00	54	40	1.6	LOCATION TO BE VERIFIED BY ENGINEER
136.068	5	BOTH	6	24	16.00	54	40	1.6	LOCATION TO BE VERIFIED BY ENGINEER
136.151	5	BOTH	6	24	16.00	54	40	1.6	LOCATION TO BE VERIFIED BY ENGINEER
136.212	5	BOTH	6	24	16.00	54	40	1.6	LOCATION TO BE VERIFIED BY ENGINEER
				TOTAL	821.33	2738	1770	82.1	
				ADDITIONAL 10%	82.13	273.80	177.00	8.21	
				USE	903.50	3011.80	1947.00	90.30	

* ESTIMATED AT 10% OF PAVEMENT REPAIRS

SUMMARY SHEET
SHEET 14 OF 17

STATE OF MISSOURI
CURTIS D. SCHENK
NUMBER PE-2019029937
REGISTERED PROFESSIONAL ENGINEER

DATE PREPARED 7/28/2023
ROUTE 5/240
STATE MO
DISTRICT CD
SHEET NO. 3
COUNTY HOWARD
JOB NO. J5P3517
CONTRACT ID.
PROJECT NO.
BRIDGE NO.

DESCRIPTION	DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
MoDOT
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JEFFERSON CITY, MO 65102
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Bridgeport, IL Springfield, IL

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WATERBORNE PAVEMENT MARKING PAINT, TYPE P BEADS

LOG MILE	TO	LOG MILE	LOCATION	4" SOLID YELLOW L.F.	4" INTERM. YELLOW L.F.	4" SOLID WHITE L.F.	REMARKS
118.930	TO	118.953	DBL YELLOW / EDGELINE	242.9	0.0	242.9	MO 5 / 240
118.953	TO	119.527	CL / EDGE LINE	3,030.7	757.7	6,061.4	MO 5 / 240
119.527	TO	119.704	SBL NPZ / EDGE LINE	934.6	233.6	1,869.1	MO 5 / 240
119.704	TO	119.872	DBL YELLOW / EDGELINE	1,774.1	0.0	1,774.1	MO 5 / 240
119.872	TO	120.047	NBL NPZ / EDGE LINE	924.0	231.0	1,848.0	MO 5 / 240
120.047	TO	120.385	CL / EDGE LINE	1,784.6	446.2	3,569.3	MO 5 /240
120.385	TO	120.545	SBL NPZ / EDGE LINE	844.8	211.2	1,689.6	MO 5 /240
120.545	TO	120.887	DBL YELLOW / EDGELINE	3,611.5	0.0	3,611.5	MO 5 /240
120.887	TO	121.047	NBL NPZ / EDGE LINE	844.8	211.2	1,689.6	MO 5 /240
121.047	TO	121.178	CL / EDGE LINE	0.0	172.9	1,383.4	MO 5 /240
121.178	TO	121.396	SBL NPZ / EDGE LINE	1,151.0	287.8	2,302.1	MO 5 /240
121.396	TO	121.810	DBL YELLOW / EDGE LINE	4,371.8	0.0	4,371.8	MO 5 /240
121.810	TO	121.986	NBL NPZ / EDGE LINE	929.3	232.3	1,858.6	MO 5 /240
121.986	TO	122.780	CL / EDGE LINE	0.0	1,048.1	8,384.6	MO 5 /240
122.780	TO	123.000	SBL NPZ / EDGE LINE	1,161.6	290.4	2,323.2	MO 5 /240
123.000	TO	123.170	DBL YELLOW / EDGE LINE	1,795.2	0.0	1,795.2	MO 5 /240
123.170	TO	123.350	NBL NPZ / EDGE LINE	950.4	237.6	1,900.8	MO 5 /240
123.350	TO	123.520	CL / EDGE LINE	0.0	224.4	1,795.2	MO 5 /240
123.520	TO	123.690	SBL NPZ / EDGE LINE	897.6	224.4	1,795.2	MO 5 /240
123.690	TO	123.720	DBL YELLOW / EDGE LINE	316.8	0.0	316.8	MO 5 /240
123.720	TO	124.140	NBL NPZ / EDGE LINE	2,217.6	554.4	4,435.2	MO 5 /240
124.140	TO	124.160	DBL YELLOW / EDGE LINE	211.2	0.0	211.2	MO 5 /240
124.160	TO	124.290	SBL NPZ / EDGE LINE	686.4	171.6	1,372.8	MO 5 /240
124.290	TO	124.620	DBL YELLOW / EDGE LINE	3,484.8	0.0	3,484.8	MO 5 /240
124.620	TO	124.800	NBL NPZ / EDGE LINE	950.4	237.6	1,900.8	MO 5 /240
124.800	TO	124.850	CL / EDGE LINE	0.0	66.0	528.0	MO 5 /240
124.850	TO	124.990	SBL NPZ / EDGE LINE	739.2	184.8	1,478.4	MO 5 /240
124.990	TO	125.030	DBL YELLOW / EDGE LINE	422.4	0.0	422.4	MO 5 /240
125.030	TO	125.220	NBL NPZ / EDGE LINE	1,003.2	250.8	2,006.4	MO 5 /240
125.220	TO	125.470	CL / EDGE LINE	0.0	330.0	2,640.0	MO 5 /240
125.470	TO	125.630	SBL NPZ / EDGE LINE	844.8	211.2	1,689.6	MO 5 /240
125.630	TO	126.000	DBL YELLOW / EDGE LINE	3,907.2	0.0	3,907.2	MO 5 /240
126.000	TO	126.150	NBL NPZ / EDGE LINE	792.0	198.0	1,584.0	MO 5 /240
126.150	TO	126.510	SBL NPZ / EDGE LINE	1,900.8	475.2	3,801.6	MO 5 /240
126.510	TO	126.680	CL / EDGE LINE	0.0	224.4	1,795.2	MO 5 /240
126.680	TO	126.900	SBL NPZ / EDGE LINE	1,161.6	290.4	2,323.2	MO 5 /240
126.900	TO	127.240	DBL YELLOW / EDGE LINE	3,590.4	0.0	3,590.4	MO 5 /240
127.240	TO	127.370	NBL NPZ / EDGE LINE	686.4	171.6	1,372.8	MO 5 /240
127.280	TO	127.420	DBL YELLOW / EDGE LINE	1,478.4	0.0	1,478.4	MO 5 /240
127.420	TO	127.600	SBL NPZ / EDGE LINE	950.4	237.6	1,900.8	MO 5 /240
127.600	TO	127.780	DBL YELLOW / EDGE LINE	1,900.8	0.0	1,900.8	MO 5 /240
127.780	TO	127.980	NBL NPZ / EDGE LINE	1,056.0	264.0	2,112.0	MO 5 /240
127.980	TO	128.090	CL / EDGE LINE	0.0	145.2	1,161.6	MO 5 /240
128.090	TO	128.300	SBL NPZ / EDGE LINE	1,108.8	277.2	2,217.6	MO 5 /240
128.300	TO	128.330	DBL CL / EDGE LINE	316.8	0.0	316.8	MO 5 /240
128.330	TO	128.500	NBL NPZ / EDGE LINE	897.6	224.4	1,795.2	MO 5 /240
128.500	TO	128.680	SBL NPZ / EDGE LINE	950.4	237.6	1,900.8	MO 5 /240
128.680	TO	128.840	NBL NPZ / EDGE LINE	844.8	211.2	1,689.6	MO 5 /240
128.840	TO	129.020	SBL NPZ / EDGE LINE	950.4	237.6	1,900.8	MO 5 /240
129.020	TO	129.250	NBL NPZ / EDGE LINE	1,214.4	303.6	2,428.8	MO 5 /240
129.250	TO	129.440	SBL NPZ / EDGE LINE	1,003.2	250.8	2,006.4	MO 5 /240
129.440	TO	130.290	DBL YELLOW / EDGE LINE	8,976.0	0.0	8,976.0	MO 5 /240
130.290	TO	130.450	NBL NPZ / EDGE LINE	844.8	211.2	1,689.6	MO 5 /240
130.450	TO	130.490	DBL YELLOW / EDGE LINE	422.4	0.0	422.4	MO 5 /240
130.490	TO	130.590	CL / EDGE LINE	0.0	132.0	1,056.0	MO 5 /240
130.590	TO	130.710	SBL NPZ / EDGE LINE	633.6	158.4	1,267.2	MO 5 /240
130.710	TO	130.876	DBL YELLOW / EDGE LINE	1,753.0	0.0	1,753.0	MO 5 /240
			RTE 5: SUB-TOTAL	**73,465.9**	**11,065.6**	**127,100.2**	

WATERBORNE PAVEMENT MARKING PAINT, TYPE P BEADS

LOG MILE	TO	LOG MILE	LOCATION	4" SOLID YELLOW L.F.	4" INTERM. YELLOW L.F.	4" SOLID WHITE L.F.	REMARKS
130.876	TO	130.942	DBL YELLOW / EDGELINE	697.0	0.0	697.0	MO 5
130.942	TO	131.084	NBL NPZ / EDGELINE	749.8	187.4	1,499.5	MO 5
131.084	TO	131.127	CL / EDGE LINE	0.0	56.8	454.1	MO 5
131.127	TO	131.265	SBL NPZ / EDGE LINE	728.6	182.2	1,457.3	MO 5
131.265	TO	131.530	DBL YELLOW / EDGELINE	2,798.4	0.0	2,798.4	MO 5
131.530	TO	131.618	CL / EDGE LINE	0.0	116.2	929.3	MO 5
131.618	TO	131.758	SBL NPZ / EDGE LINE	739.2	184.8	1,478.4	MO 5
131.758	TO	132.837	DBL YELLOW / EDGELINE	11,394.2	0.0	11,394.2	MO 5
132.837	TO	133.101	NBL NPZ / EDGELINE	1,393.9	348.5	2,787.8	MO 5
133.101	TO	133.384	SBL NPZ / EDGE LINE	1,494.2	373.6	2,988.5	MO 5
133.384	TO	134.277	DBL YELLOW / EDGELINE	9,430.1	0.0	9,430.1	MO 5
134.277	TO	134.400	NBL NPZ / EDGELINE	649.4	162.4	1,298.9	MO 5
134.400	TO	134.483	DBL YELLOW / EDGELINE	876.5	0.0	876.5	MO 5
134.483	TO	134.623	SBL NPZ / EDGE LINE	739.2	184.8	1,478.4	MO 5
134.623	TO	137.615	DBL YELLOW / EDGELINE	15,797.8	3,949.4	31,595.5	MO 5
137.615	TO	137.715	NBL NPZ / EDGELINE	528.0	132.0	1,056.0	MO 5
137.715	TO	137.777	DBL YELLOW / EDGELINE	654.7	0.0	654.7	MO 5
137.777	TO	137.897	SBL NPZ / EDGE LINE	633.6	158.4	1,267.2	MO 5
137.897	TO	138.001	NBL NPZ / EDGELINE	549.1	137.3	1,098.2	MO 5
137.715	TO	138.073	DBL YELLOW / EDGELINE	3,780.5	0.0	3,780.5	MO 5
138.073	TO	138.214	SBL NPZ / EDGE LINE	744.5	186.1	1,489.0	MO 5
138.214	TO	138.687	DBL YELLOW / EDGELINE	4,994.9	0.0	4,994.9	MO 5
138.687	TO	138.905	NBL NPZ / EDGELINE	1,151.0	287.8	2,302.1	MO 5
138.905	TO	138.965	CL / EDGE LINE	0.0	79.2	633.6	MO 5
138.965	TO	139.159	SBL NPZ / EDGE LINE	1,024.3	256.1	2,048.6	MO 5
139.159	TO	139.527	DBL YELLOW / EDGELINE	3,886.1	0.0	3,886.1	MO 5
139.527	TO	139.608	SBL NPZ / EDGE LINE	427.7	106.9	855.4	MO 5
139.608	TO	140.123	DBL YELLOW / EDGELINE	5,438.4	0.0	5,438.4	MO 5
140.123	TO	140.208	NBL NPZ / EDGELINE	448.8	112.2	897.6	MO 5
140.208	TO	141.184	DBL YELLOW / EDGELINE	10,306.6	0.0	10,306.6	MO 5
141.184	TO	141.336	NBL NPZ / EDGELINE	802.6	200.6	1,605.1	MO 5
141.336	TO	141.964	CL / EDGE LINE	0.0	829.0	6,631.7	MO 5
141.964	TO	142.036	DBL YELLOW / EDGELINE	760.3	0.0	760.3	MO 5
142.036	TO	142.970	CL / EDGE LINE	0.0	1,232.9	9,863.0	MO 5
142.970	TO	143.164	SBL NPZ / EDGE LINE	1,024.3	256.1	2,048.6	MO 5
143.164	TO	143.246	DBL YELLOW / EDGELINE	865.9	0.0	865.9	MO 5
			RTE 5: SUB-TOTAL	**85,509.6**	**9,720.5**	**133,647.4**	
			RTE 5: TOTAL	**158,975.5**	**20,786.0**	**260,747.5**	

SUMMARY SHEET
SHEET 15 OF 17

STATE OF MISSOURI
CURTIS D. SCHENK
NUMBER
PE-2019029937
REGISTERED PROFESSIONAL ENGINEER

DATE PREPARED 7/28/2023
ROUTE 5/240 | STATE MO
DISTRICT CD | SHEET NO. 3
COUNTY HOWARD
JOB NO. J5P3517
CONTRACT ID.
PROJECT NO.
BRIDGE NO.

DATE	DESCRIPTION

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WATERBORNE PAVEMENT MARKING PAINT, TYPE P BEADS

LOG MILE	TO	LOG MILE	LOCATION	4" SOLID YELLOW L.F.	4" INTERM. YELLOW L.F.	4" SOLID WHITE L.F.	REMARKS
38.378	TO	39.090	DBL YELLOW / EDGE LINE	7,518.7	0.0	7,518.7	MO 240
39.090	TO	39.400	CL / EDGE LINE	0.0	409.2	3,273.6	MO 240
39.400	TO	39.570	SBL NPZ / EDGE LINE	1,795.2	224.4	1,795.2	MO 240
39.570	TO	39.690	DBL YELLOW / EDGE LINE	1,267.2	0.0	1,267.2	MO 240
39.690	TO	39.800	NBL NPZ / EDGELINE	580.8	145.2	1,161.6	MO 240
39.800	TO	39.870	CL / EDGE LINE	0.0	92.4	739.2	MO 240
39.870	TO	40.000	SBL NPZ / EDGE LINE	686.4	171.6	1,372.8	MO 240
40.000	TO	40.150	DBL YELLOW / EDGE LINE	1,584.0	0.0	1,584.0	MO 240
40.150	TO	40.590	DBL YELLOW / EDGE LINE	4,646.4	0.0	4,646.4	MO 240
40.590	TO	40.770	NBL NPZ / EDGELINE	950.4	237.6	1,900.8	MO 240
40.770	TO	40.880	CL / EDGE LINE	0.0	145.2	1,161.6	MO 240
40.880	TO	41.010	SBL NPZ / EDGE LINE	686.4	171.6	1,372.8	MO 240
41.010	TO	41.220	DBL YELLOW / EDGE LINE	2,217.6	0.0	2,217.6	MO 240
41.220	TO	41.470	SBL NPZ / EDGE LINE	1,320.0	330.0	2,640.0	MO 240
41.470	TO	41.940	DBL YELLOW / EDGE LINE	4,963.2	0.0	4,963.2	MO 240
41.940	TO	42.110	NBL NPZ / EDGELINE	897.6	224.4	1,795.2	MO 240
42.110	TO	42.280	SBL NPZ / EDGE LINE	897.6	224.4	1,795.2	MO 240
42.280	TO	43.260	DBL YELLOW / EDGE LINE	10,348.8	0.0	10,348.8	MO 240
43.260	TO	43.510	NBL NPZ / EDGELINE	1,320.0	330.0	2,640.0	MO 240
43.510	TO	43.850	CL / EDGE LINE	0.0	448.8	3,590.4	MO 240
43.850	TO	44.100	SBL NPZ / EDGE LINE	1,320.0	330.0	2,640.0	MO 240
44.100	TO	44.450	DBL YELLOW / EDGE LINE	3,696.0	0.0	3,696.0	MO 240
44.450	TO	44.620	SBL NPZ / EDGE LINE	897.6	224.4	1,795.2	MO 240
44.620	TO	45.740	DBL YELLOW / EDGE LINE	11,827.2	0.0	11,827.2	MO 240
45.740	TO	45.930	NBL NPZ / EDGELINE	1,003.2	250.8	2,006.4	MO 240
45.930	TO	46.080	SBL NPZ / EDGE LINE	792.0	198.0	1,584.0	MO 240
46.080	TO	46.620	DBL YELLOW / EDGE LINE	5,702.4	0.0	5,702.4	MO 240
46.620	TO	46.730	SBL NPZ / EDGE LINE	580.8	145.2	1,161.6	MO 240
46.730	TO	46.840	DBL YELLOW / EDGE LINE	1,161.6	0.0	1,161.6	MO 240
46.840	TO	47.010	NBL NPZ / EDGELINE	897.6	224.4	1,795.2	MO 240
47.010	TO	47.170	SBL NPZ / EDGE LINE	844.8	211.2	1,689.6	MO 240
47.170	TO	49.247	DBL YELLOW / EDGE LINE	21,933.1	0.0	21,933.1	MO 240
49.247	TO	49.485	NBL NPZ / EDGELINE	1,256.6	314.2	2,513.3	MO 240
49.485	TO	49.662	SBL NPZ / EDGE LINE	934.6	233.6	1,869.1	MO 240
49.662	TO	49.830	DBL YELLOW / EDGE LINE	1,774.1	0.0	1,774.1	MO 240
49.830	TO	49.963	SBL NPZ / EDGE LINE	702.2	175.6	1,404.5	MO 240
49.963	TO	51.806	DBL YELLOW / EDGE LINE	19,462.1	0.0	19,462.1	MO 240
			RTE 240: TOTAL	**116,466.2**	**5,462.2**	**141,799.7**	

PREFORMED THERMOPLASTIC PAVEMENT MARKING, 6 IN. WHITE

LOG MILE	ROUTE	LOCATION	6" SOLID WHITE L.F.	REMARKS
131.364	5	RTE 5 / SPRING ST.	103.0	CROSS WALK
		RTE 240 ALT. TOTAL	**103.0**	

WATERBORNE PAVEMENT MARKING PAINT, TYPE P BEADS - CITY PARKING AREAS

LOG MILE	TO	LOG MILE	LOCATION	4" SOLID YELLOW L.F.	REMARKS
38.994	TO	39.078	LT. - PARKING AREAS	514.0	CITY PARKING AREAS
38.994	TO	39.078	RT. - PARKING AREAS	355.0	CITY PARKING AREAS
			PARKING AREA TOTAL	**869.0**	

WATERBORNE PAVEMENT MARKING PAINT, TYPE P BEADS

LOG MILE	TO	LOG MILE	LOCATION	4" SOLID YELLOW L.F.	4" INTERM. YELLOW L.F.	4" SOLID WHITE L.F.	REMARKS
0.025	TO	0.056	DBL YELLOW / EDGE LINE	327.4	0.0	327.4	PASS THROUGH ROAD
0.000	TO	0.352	DBL YELLOW / EDGE LINE	3,717.1	0.0	3,717.1	MO 240 ALT
0.352	TO	0.523	NBL NPZ / EDGELINE	902.9	225.7	1,805.8	MO 240 ALT
0.523	TO	0.661	SBL NPZ / EDGE LINE	728.6	182.2	1,457.3	MO 240 ALT
0.661	TO	0.710	DBL YELLOW / EDGE LINE	517.4	64.7	517.4	MO 240 ALT
			RTE 240 ALT. TOTAL	**6,193.4**	**472.6**	**7,825.0**	

WATERBORNE PAVEMENT MARKING PAINT, TYPE P BEADS

LOCATION	4" SOLID YELLOW L.F.	4" INTERM. YELLOW L.F.	4" SOLID WHITE L.F.	REMARKS
ROUTE 5: TOTAL	158,975.5	20,786.0	260,747.5	
SHEET 240: TOTAL	116,466.2	5,462.2	141,799.7	
ALT RTE. 240: TOTAL	6,193.4	472.6	7,825.0	
PARKING AREAS: TOTAL	869.0	-	-	
TOTAL	**282,504.2**	**26,720.8**	**410,372.2**	
USE	**309,225**		**410,373**	

PREFORMED THERMOPLASTIC PAVEMENT MARKING

LOG MILE	ROUTE	LOCATION	24" SOLID WHITE L.F.	30" WHITE MID-BLOCK EACH	LEFT TURN ARROW EACH	REMARKS
131.491	5	RTE 5 / DAVIS ST. INTERSECTION	12.0	-	-	STOP BAR
131.498	5	RTE 5 / DAVIS ST. INTERSECTION	12.0	-	-	STOP BAR
142.331	5	KATY TRAIL	-	5.0	-	MID BLOCK CROSSING
39.000	240	RTE 240/DAVIS ST. INTERSECTION	12.0	-	-	STOP BAR
39.146	240	RTE 240/DAVIS ST. INTERSECTION	12.0	-	-	STOP BAR
39.060	240	RTE 240/MORRISON ST. INTERSECTION	12.0	-	-	STOP BAR
39.071	240	RTE 240/MORRISON ST. INTERSECTION	12.0	-	-	STOP BAR
39.359	240	PEDESTRIAN CROSSING	-	5.0	-	MID BLOCK CROSSING
40.098	240	RTE 240 / HWY 124	-	-	1.0	TURN LANE
40.118	240	RTE 240 / HWY 124	-	-	1.0	
51.806	240	RTE 240 / RTE 40	12.0	-	-	STOP BAR
-	240 SPUR	RTE 240 SPUR / RTE 40	20.0	-	-	STOP BAR
0.000	ALT 240 SPUR	ALT RTE 240 / RTE 240	12.0	-	-	STOP BAR
0.067	ALT 240 SPUR	ALT RTE 240 / RTE 240	12.0	-	-	STOP BAR
0.000	ALT 240	ALT RTE 240 / RTE 40	12.0	-	-	STOP BAR
0.710	ALT 240	ALT RTE 240 / RTE 40	12.0	-	-	STOP BAR
-	ALT 240 SPUR	ALT RTE 240 / RTE 40	10.0	-	-	STOP BAR
		TOTALS	**162.0**	**10.0**	**2.0**	

SUMMARY SHEET
SHEET 16 OF 17

STATE OF MISSOURI
CURTIS D. SCHENK
NUMBER PE-2019029937
REGISTERED PROFESSIONAL ENGINEER

DATE PREPARED 7/28/2023
ROUTE 5/240 | STATE MO
DISTRICT CD | SHEET NO. 3
COUNTY HOWARD
JOB NO. J5P3517
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)

MISSOURI STATE CERTIFICATE OF AUTHORITY NO. 000866
KLINGNER & ASSOCIATES, P.C.
Engineers • Architects • Surveyors
www.klingner.com
Quincy, Illinois
616 North 24th Street
217.222.7570
Hannibal, MO Burlington, IA
Galesburg, IL Pittsburg, KS Columbia, MO
Davenport, IA Springfield, IL

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

EFFECTIVE: 04-01-2023

SIGN	SIZE IN.	AREA SQ.FT.	QTY EACH	TOTAL AREA SQ.FT.	QTY RELOC EACH	TOTAL RELOC SQ.FT.	SIGN NUM.	DESCRIPTION
WARNING SIGNS								
WO1-1L	48X48	16.00						TURN (SYMBOL LEFT ARROW)
WO1-1R	48X48	16.00						TURN (SYMBOL RIGHT ARROW)
WO1-2L	48X48	16.00						CURVE (SYMBOL LEFT ARROW)
WO1-2R	48X48	16.00						CURVE (SYMBOL RIGHT ARROW)
WO1-3L	48X48	16.00						REVERSE TURN (SYMBOL LEFT ARROW)
WO1-3R	48X48	16.00						REVERSE TURN (SYMBOL RIGHT ARROW)
WO1-4L	48X48	16.00						REVERSE CURVE (SYMBOL LEFT ARROW)
WO1-4R	48X48	16.00						REVERSE CURVE (SYMBOL RIGHT ARROW)
WO1-4bL	48X48	16.00						DOUBLE ARROW REVERSE CURVE (SYMBOL LT ARROWS)
WO1-4bR	48X48	16.00						DOUBLE ARROW REVERSE CURVE (SYMBOL RT ARROWS)
WO1-4cL	48X48	16.00						TRIPLE ARROW REVERSE CURVE (SYMBOL LT ARROWS)
WO1-4cR	48X48	16.00						TRIPLE ARROW REVERSE CURVE (SYMBOL RT ARROWS)
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						SIGNAL AHEAD (SYMBOL)
WO3-4	48X48	16.00	29	464			11	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 (ARROW SYMBOL)
WO4-1aR	48X48	16.00						MERGE (ARROW SYMBOL)
WO5-1	48X48	16.00						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	5	80			50	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 (WITH FLAGS)
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	81	1296			36	UNEVEN LANES
WO8-12	48X48	16.00	43	688			35	NO CENTER LINE
WO8-15	48X48	16.00						GROOVED PAVEMENT
WO8-15P	30X24	5.00						MOTORCYCLE (PLAQUE)
WO8-17	48X48	16.00						SHOULDER DROP-OFF (SYMBOL)
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	39	624			02	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	14	224			07	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	39	624			08	FLAGGER (SYMBOL, WITH FLAGS)
WO21-2	36X36	9.00						FRESH OIL
WO21-5	48X48	16.00						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	8	17.52				WET PAINT (ARROW PIVOTS)

SIGN	SIZE IN.	AREA SQ.FT.	QTY EACH	TOTAL SQ.FT.	QTY RELOC EACH	TOTAL RELOC SQ.FT.	SIGN NUM.	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	4	40			1	ROAD WORK NEXT 24 MILES & 13 MILES
GO20-2	48X24	8.00	4	32			26	END ROAD WORK
GO20-4	36X18	4.50	2	9			53	PILOT CAR FOLLOW ME
GO20-4a	42X30	8.75	5	43.75			58	PILOT CAR IN USE WAIT & FOLLOW
GO20-4a	18X12	1.50	50	75			60	PILOT CAR IN USE WAIT & FOLLOW
GO20-5aP	36X24	6.00						WORK ZONE (PLAQUE)
MO4-8a	24X18	3.00						END DETOUR
MO4-9L	48X36	12.00						DETOUR (LEFT ARROW)
MO4-9R	48X36	12.00						DETOUR (RIGHT ARROW)
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						SPEED LIMIT XX
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
R4-8a	36X48	12.00						KEEP LEFT (HORIZONTAL ARROW)
R4-7a	36X48	12.00						KEEP RIGHT (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						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	3	96			57	POINT OF PRESENCE
CONST-7	48X24	8.00	4	32			56	RATE OUR WORK ZONE
CONST-7	72X36	18.00						RATE OUR WORK ZONE
CONST-8	48X36	12.00	4	48			59	WORK ZONE NO PHONE ZONE

616-10.05 CONSTRUCTION SIGNS	TOTAL 4393.27	
616-10.10 RELOCATED SIGNS		TOTAL 0

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)
6123000A	4	TRUCK OR TRAILER MOUNTED ATTENUATOR (TMA)
6161008		ADVANCED WARNING RAIL SYSTEM
6161012		BUOYS (BOATS KEEP OUT)
6161013		BUOYS (NO WAKE)
6161014		SPECIAL SIGN ASSEMBLY (BOATS KEEP OUT)
6161025	712	CHANNELIZER (TRIM LINE)
6161030		TYPE III MOVEABLE BARRICADE
6161033		DIRECTION INDICATOR BARRICADE
6161040		FLASHING ARROW PANEL
6161047		TYPE III OBJECT MARKER
6161055		SEQUENTIAL FLASHING WARNING LIGHT
6161070		TUBULAR MARKER
6161095		RADAR SPEED ADVISORY SYSTEM
6161096		CHANGEABLE MESSAGE SIGN, COMMISSION FURNISHED/RETAINED
6161098A	4	CHANGEABLE MESSAGE SIGN W/O COMM. INTERFACE - CONTRACTOR FURNISHED/RETAINED
6161099		CHANGEABLE MESSAGE SIGN WITH COMM. INTERFACE - CONTRACTOR FURNISHED/RETAINED
6162000A		WORK ZONE TRAFFIC SIGNAL SYSTEM
6162002		TEMPORARY LONG-TERM RUMBLE STRIPS
6173600D		TEMPORARY TRAFFIC BARRIER CONTRACTOR FURNISHED/RETAINED
6173602B		TEMPORARY TRAFFIC BARRIER CONTRACTOR FURNISHED/COMMISSION RETAINED
6174000A		TEMP. TRAFFIC BARRIER HEIGHT TRANSITION
6175010A		RELOCATING TEMPORARY TRAFFIC BARRIER
6176000B		TEMPORARY TRAFFIC BARRIER COMMISSION FURNISHED/RETAINED
6177000B		TEMP. TRAFFIC BARRIER HEIGHT TRANSITION COMMISSION FURNISHED/RETAINED
6208064A		TEMPORARY RAISED PAVEMENT MARKER
9029400		TEMPORARY TRAFFIC SIGNALS
9029401		TEMPORARY TRAFFIC SIGNALS AND LIGHTING

SUMMARY SHEET

SHEET 17 OF 17

STATE OF MISSOURI
CURTIS D. SCHENK
NUMBER PE-2019029937
REGISTERED PROFESSIONAL ENGINEER

DATE PREPARED 7/28/2023

ROUTE	STATE
5/240	MO
DISTRICT CD	SHEET NO. 3

COUNTY HOWARD

JOB NO. J5P3517

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)

MISSOURI STATE CERTIFICATE OF AUTHORITY NO. 000866

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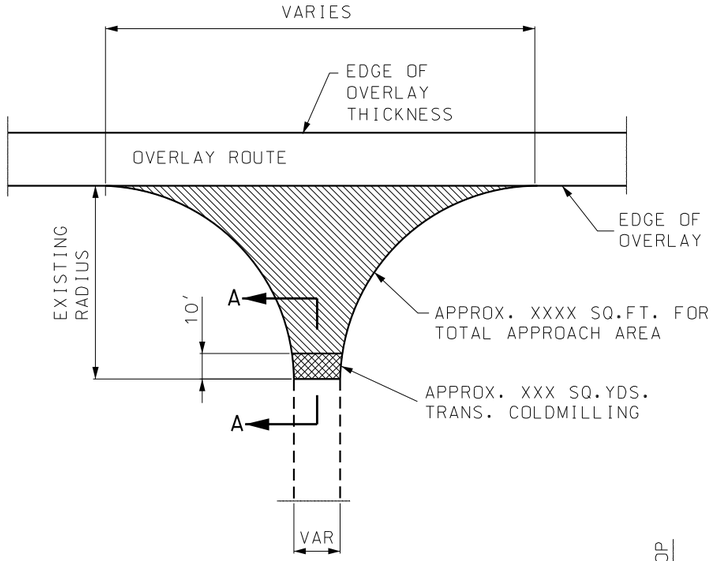
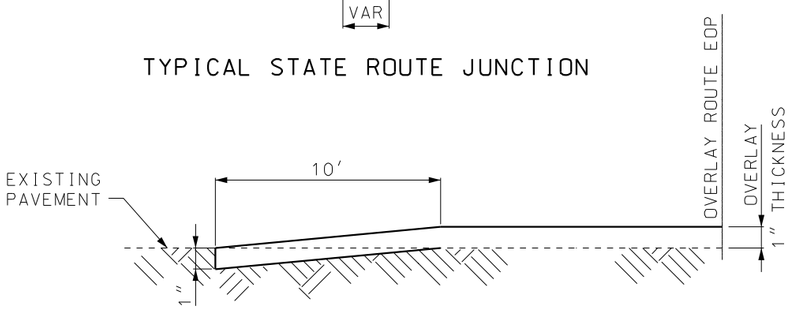
Galesburg, IL Fulton, MO Columbia, MO
Bloomington, IL Springfield, IL

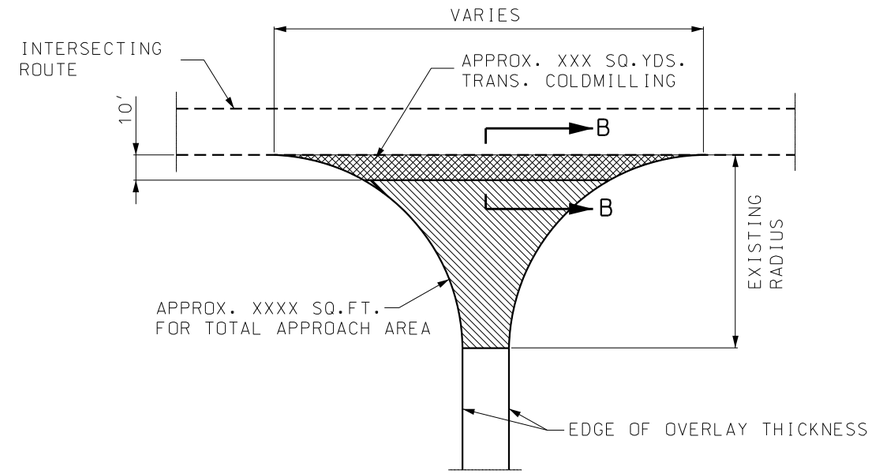
IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.



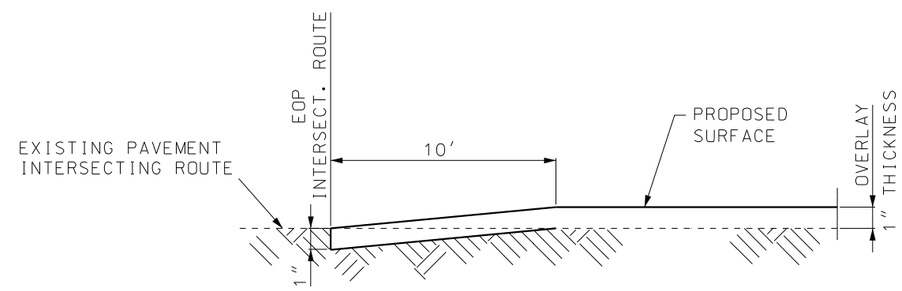
TYPICAL STATE ROUTE JUNCTION



SECTION A-A
TYPICAL STATE ROUTE/COUNTY ROAD JUNCTION
(COLDMILLED TRANSITION)

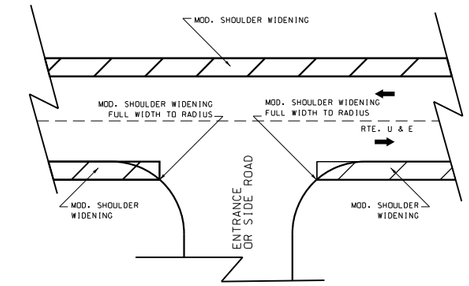


BEGINNING AND END OF PROJECT
AT INTERSECTING ROUTE

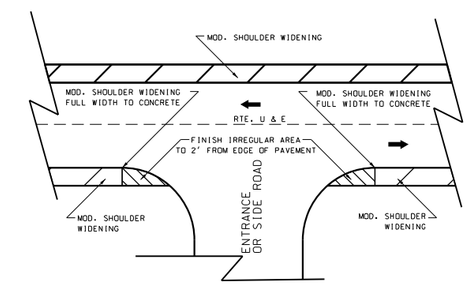


SECTION B-B

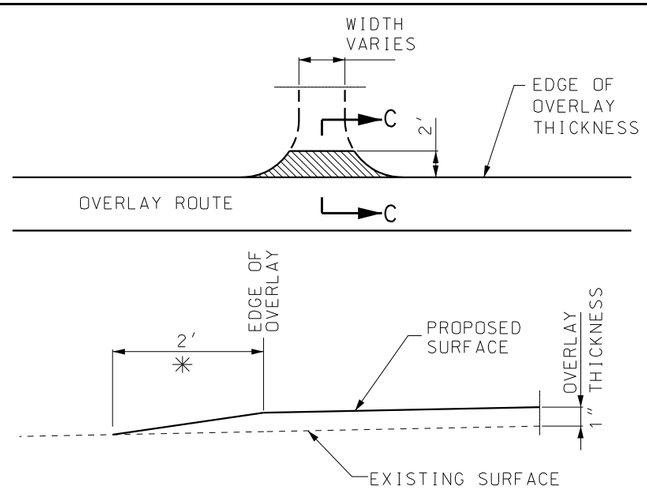
DEPTH TRANSITIONS
BEGINNING AND END OF PROJECT
AT INTERSECTING ROUTE



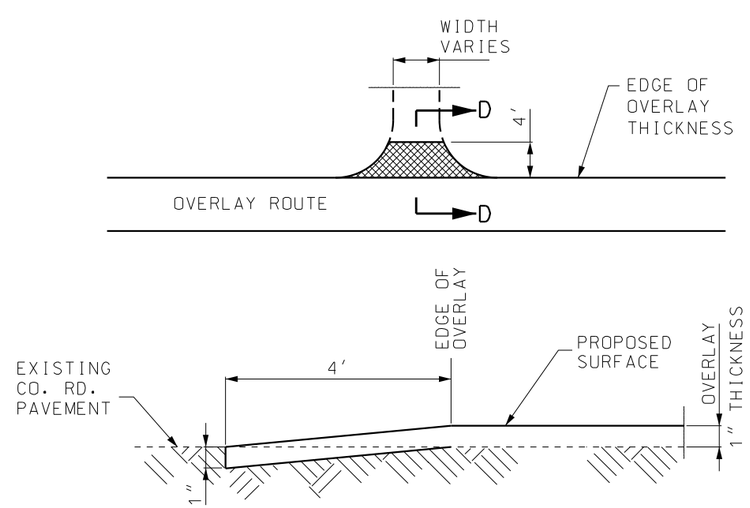
MODIFIED SHOULDER WIDENING
CONSTRUCTION AT ASPHALT
ENTRANCE OR SIDE ROAD



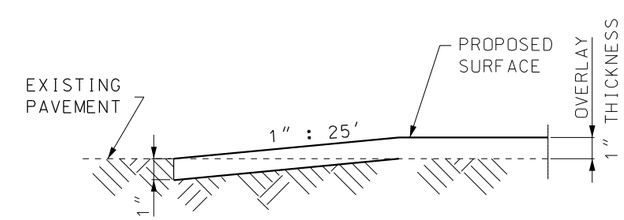
MODIFIED SHOULDER WIDENING
CONSTRUCTION AT CONCRETE
ENTRANCE OR SIDE ROAD



SECTION C-C
TYPICAL ENTRANCE
(FIELD, PRIVATE OR UNPAVED COUNTY ROAD)
✳ TAPER AT 1:1 FOR FIELD ENTRANCE



SECTION D-D
TYPICAL HMA COUNTY ROAD/CITY STREET JUNCTION
(COLDMILLED TRANSITION)



TRAVELWAY DEPTH TRANSITIONS
BEGINNING AND END OF PROJECT.
NOT AT INTERSECTING ROUTE
OR AT EXCEPTIONS

SPECIAL SHEET
SHEET 1 OF 9

NOT TO SCALE

PAVEMENT TRANSITIONS
SHEET 1 OF 1

STATE OF MISSOURI
CURTIS D. SCHENK
NUMBER PE-2019029937
REGISTERED PROFESSIONAL ENGINEER

DATE PREPARED	7/28/2023
ROUTE	5/240
STATE	MO
DISTRICT	CD
SHEET NO.	4
COUNTY	HOWARD
JOB NO.	J5P3517
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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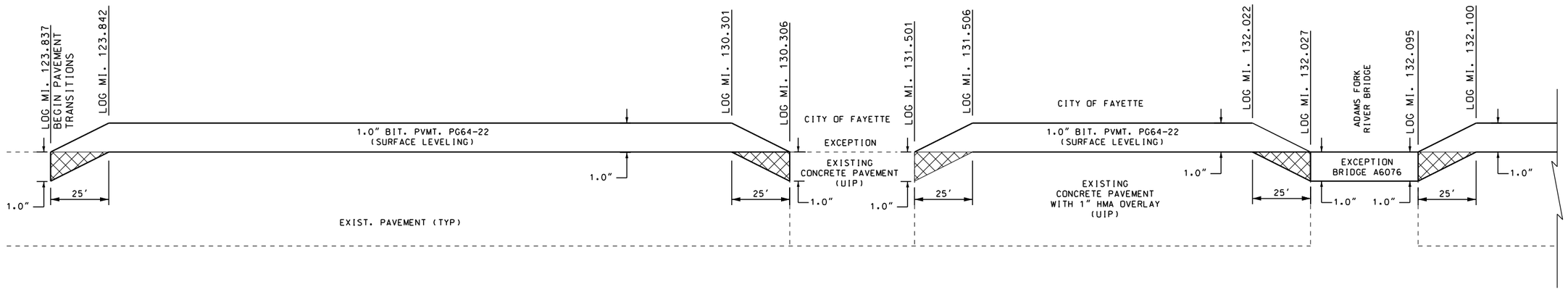
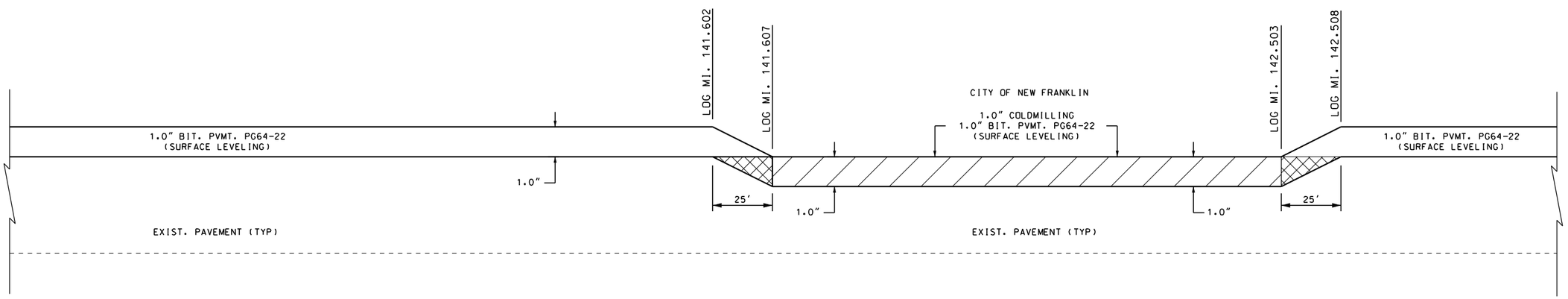
Hannibal, MO Burlington, IA
Galesburg, IL Fulton, IA Columbia, MO
Bloomington, IL Davenport, IA



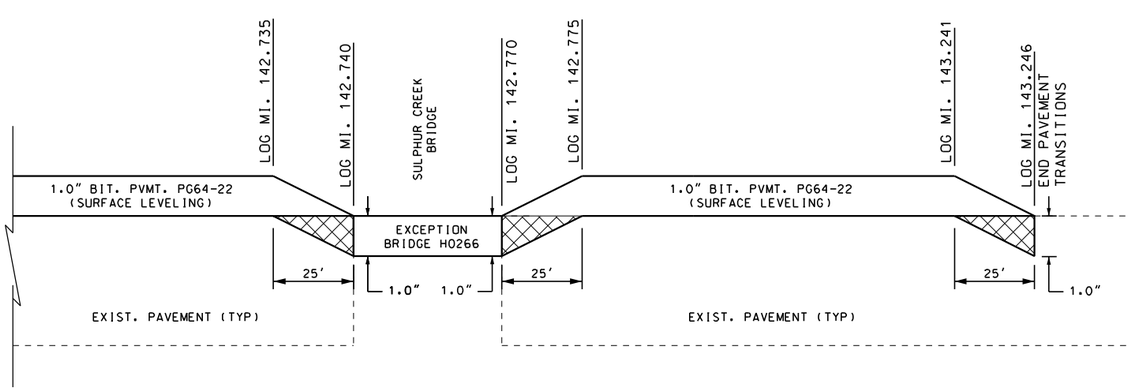
TRANSITION COLDMILLING AND PAVEMENT DETAILS

ROUTE 5



TRANSITION COLDMILLING AND PAVEMENT DETAILS

ROUTE 5



1" COLDMILLING
1" BIT. PVMNT. (SURF. LEVELING)

MODIFIED COLDMILLING FOR DEPTH TRANSITIONS

TRANSITION COLDMILLING AND PAVEMENT DETAILS

ROUTE 5

NOT TO SCALE

SPECIAL SHEET
SHEET 2 OF 9

ROUTE 5
COLDMILLING TRANSITIONS
SHEET 1 OF 1

STATE OF MISSOURI
CURTIS D. SCHENK NUMBER PE-2019029937
REGISTERED PROFESSIONAL ENGINEER

DATE PREPARED	7/28/2023
ROUTE	5/240
STATE	MO
DISTRICT	CD
SHEET NO.	5
COUNTY	HOWARD
JOB NO.	J5P3517
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
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JEFFERSON CITY, MO 65102
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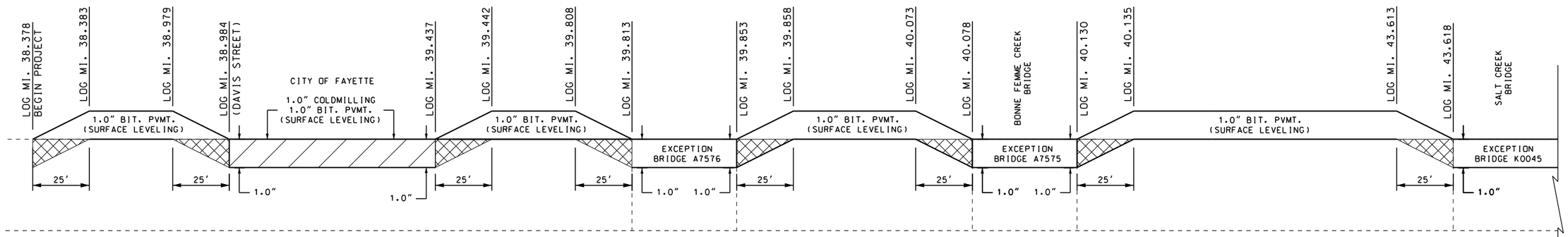
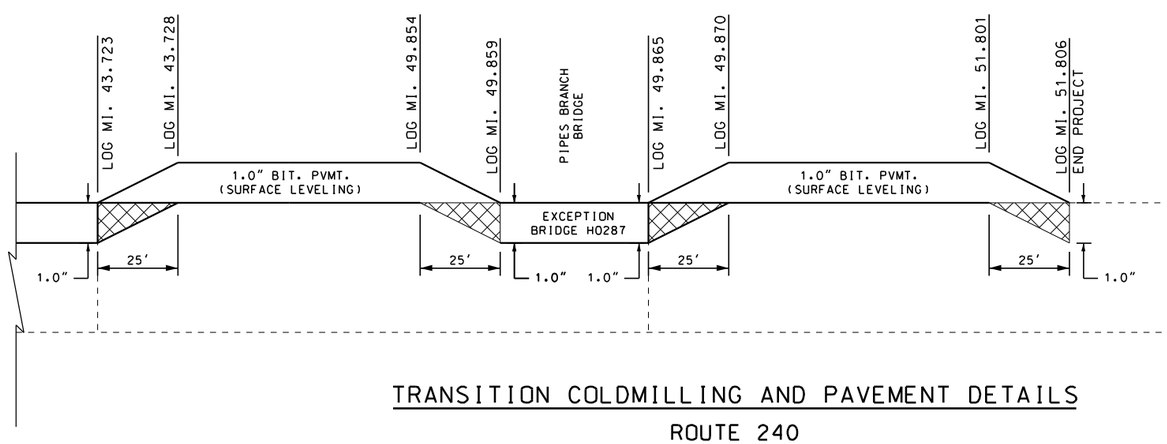


TRANSITION COLDMILLING AND PAVEMENT DETAILS

ROUTE 240



TRANSITION COLDMILLING AND PAVEMENT DETAILS

ROUTE 240

1" COLDMILLING
1" BIT. PVMNT (SURF. LEVELING)

MODIFIED COLDMILLING
FOR DEPTH TRANSITIONS

NOT TO SCALE

SPECIAL SHEET
SHEET 3 OF 9

ROUTE 240
COLDMILLING TRANSITIONS
SHEET 1 OF 1

STATE OF MISSOURI
CURTIS D. SCHENK
NUMBER
PE-2019029937
REGISTERED PROFESSIONAL ENGINEER

DATE PREPARED	7/28/2023
ROUTE	5/240
STATE	MO
DISTRICT	CD
SHEET NO.	6
COUNTY	HOWARD
JOB NO.	J5P3517
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
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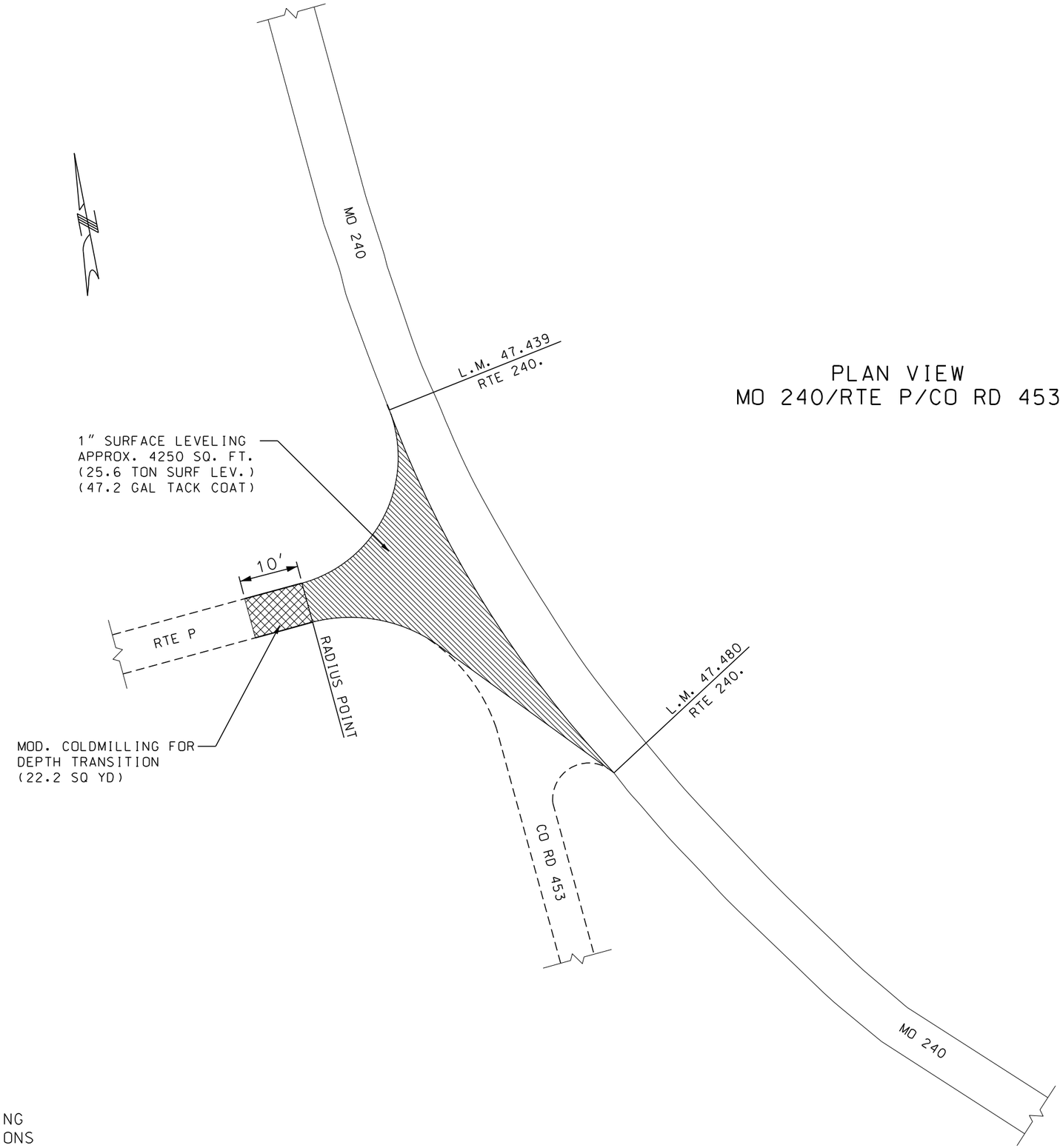

PLAN VIEW
MO 240/RTE P/CO RD 453

OVERLAY AREA

MODIFIED COLDMILLING
FOR DEPTH TRANSITIONS

NOT TO SCALE

SPECIAL SHEET
SHEET 4 OF 9

ROUTE P
PAVEMENT TRANSITIONS
SHEET 1 OF 1

STATE OF MISSOURI
CURTIS D. SCHENK
NUMBER
PE-2019029937
REGISTERED PROFESSIONAL ENGINEER

DATE PREPARED	7/28/2023
ROUTE	5/240
STATE	MO
DISTRICT	CD
SHEET NO.	7
COUNTY	HOWARD
JOB NO.	J5P3517
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

DATE	DESCRIPTION

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MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
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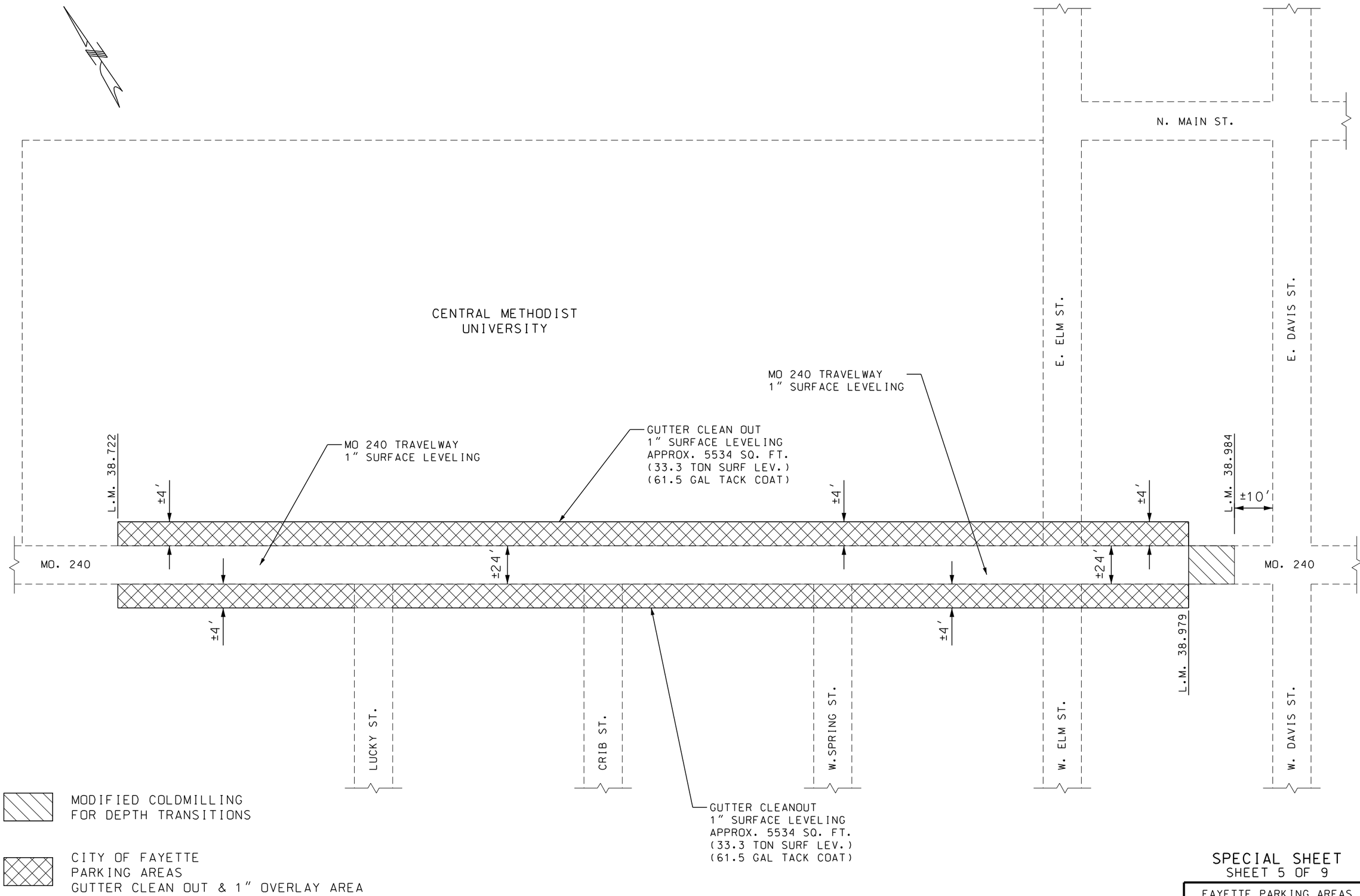
Columbia, MO
Bloomington, IL Davenport, IA



NOT TO SCALE

SPECIAL SHEET
SHEET 5 OF 9

FAYETTE PARKING AREAS
ADD ALTERNATE A
SHEET 1 OF 2

STATE OF MISSOURI
CURTIS D. SCHENK
NUMBER
PE-2019029937
REGISTERED PROFESSIONAL ENGINEER

DATE PREPARED	8/29/2023
ROUTE	5/240
STATE	MO
DISTRICT	CD
SHEET NO.	8
COUNTY	HOWARD
JOB NO.	J5P3517
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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Burlington, IA Keokuk, IA

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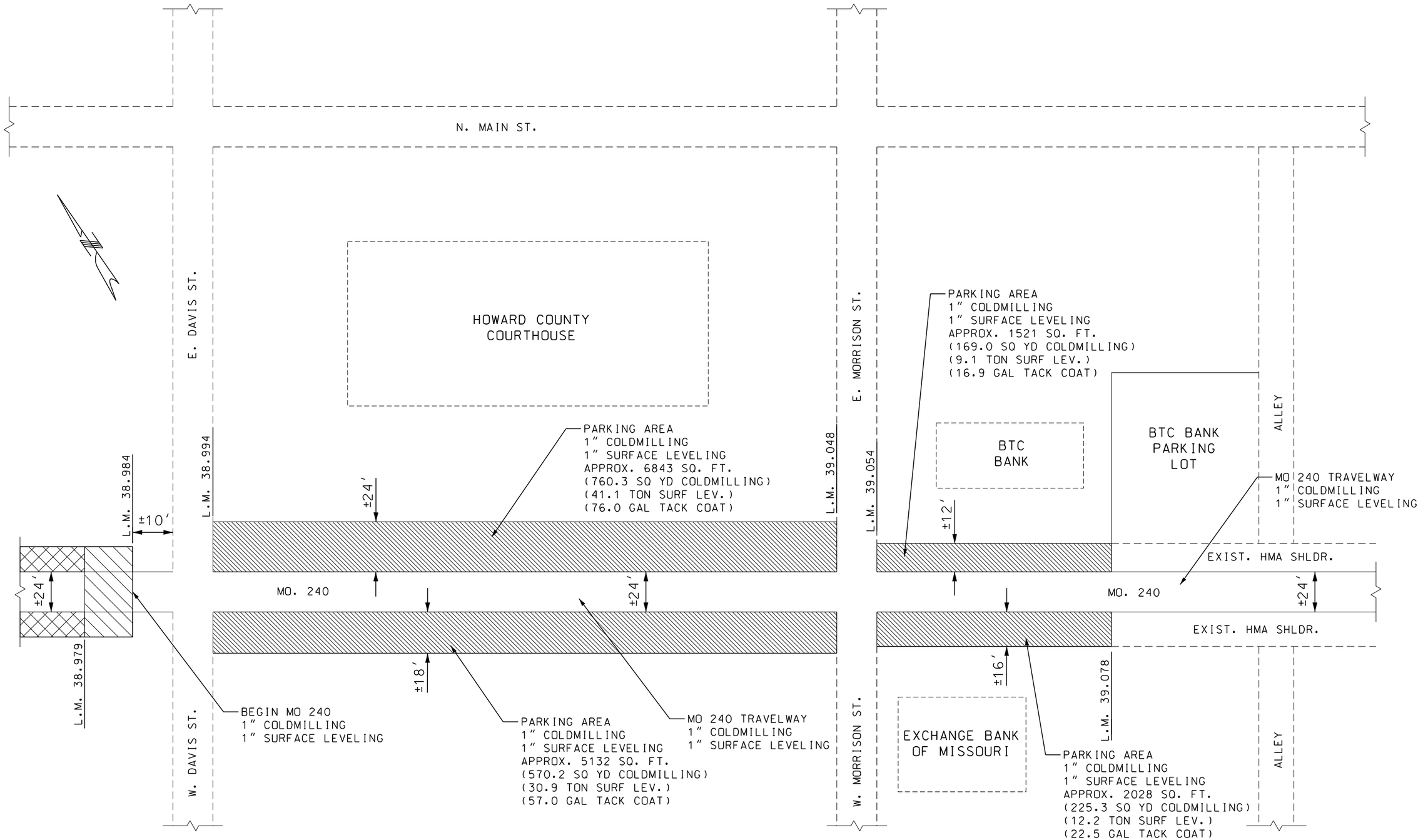

MODIFIED COLDMILLING FOR DEPTH TRANSITIONS

CITY OF FAYETTE PARKING AREAS GUTTER CLEANOUT & 1″ OVERLAY AREA

CITY OF FAYETTE PARKING AREAS 1″ COLDMILLING & 1″ OVERLAY AREA

NOT TO SCALE

SPECIAL SHEET
SHEET 6 OF 9

FAYETTE PARKING AREAS
ADD ALTERNATE A
SHEET 2 OF 2

STATE OF MISSOURI
CURTIS D. SCHENK
NUMBER PE-2019029937
REGISTERED PROFESSIONAL ENGINEER

DATE PREPARED	
8/29/2023	
ROUTE	STATE
5/240	MO
DISTRICT	SHEET NO.
CD	9
COUNTY	
HOWARD	
JOB NO.	
J5P3517	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

DATE	DESCRIPTION

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MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
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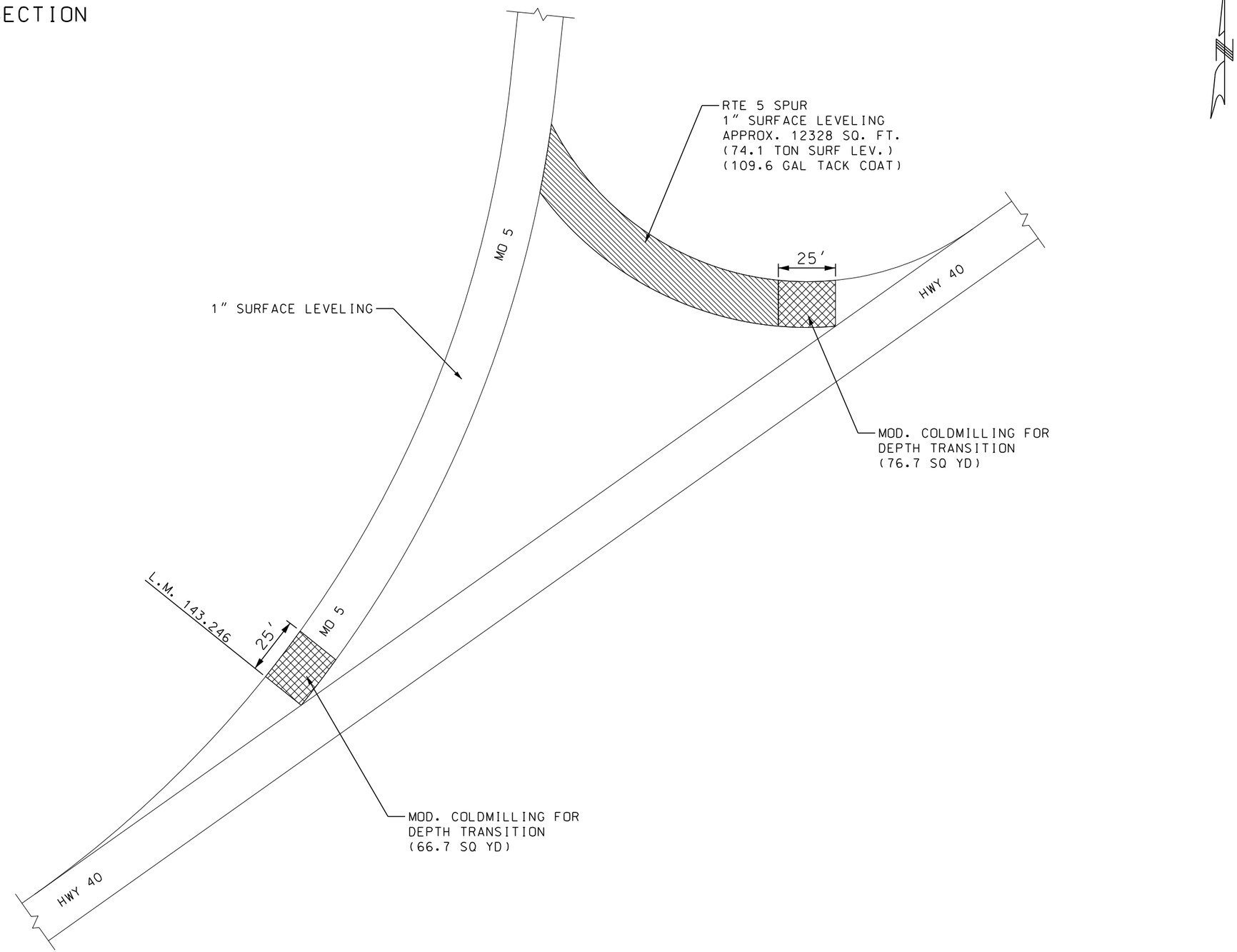
Springfield, MO Cincinnati, OH

PLAN VIEW
MO 5/HWY 40
INTERSECTION



OVERLAY AREA

MODIFIED COLDMILLING
FOR DEPTH TRANSITIONS

NOT TO SCALE

SPECIAL SHEET
SHEET 7 OF 9

RTE 5 & HWY 40
PAVEMENT TRANSITIONS
SHEET 1 OF 1

STATE OF MISSOURI
CURTIS D. SCHENK
NUMBER
PE-2019029937
REGISTERED PROFESSIONAL ENGINEER

DATE PREPARED	7/28/2023
ROUTE	5/240
STATE	MO
DISTRICT	CD
SHEET NO.	10
COUNTY	HOWARD
JOB NO.	J5P3517
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

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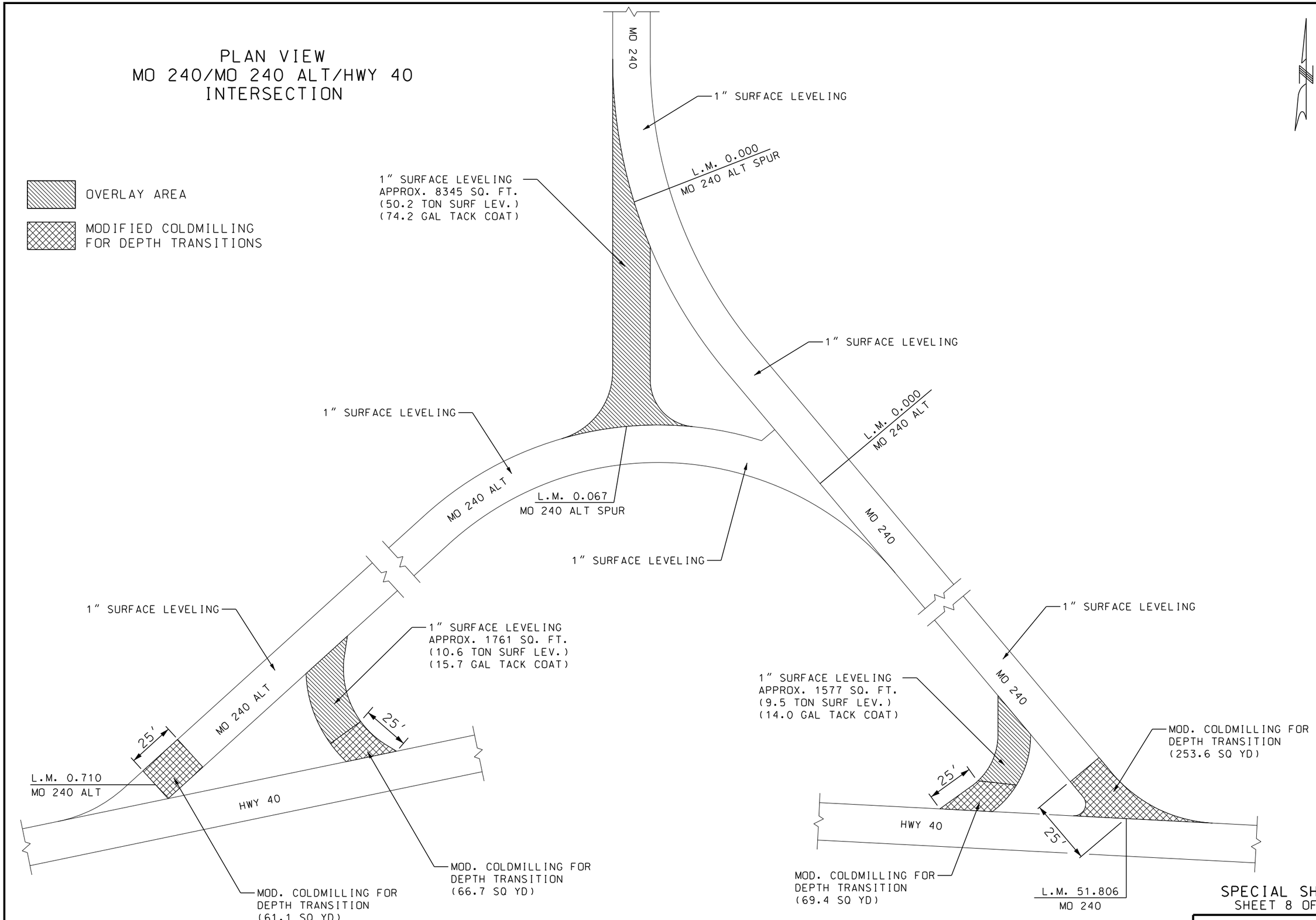
Springfield, MO Cincinnati, IL

PLAN VIEW
MO 240/MO 240 ALT/HWY 40 INTERSECTION

OVERLAY AREA

MODIFIED COLDMILLING FOR DEPTH TRANSITIONS



NOT TO SCALE

SPECIAL SHEET
SHEET 8 OF 9

ALT 240 & HWY 40
PAVEMENT TRANSITIONS
SHEET 1 OF 1

STATE OF MISSOURI
CURTIS D. SCHENK
NUMBER
PE-2019029937
REGISTERED PROFESSIONAL ENGINEER

DATE PREPARED	7/28/2023
ROUTE	5/240
STATE	MO
DISTRICT	CD
SHEET NO.	11
COUNTY	HOWARD
JOB NO.	J5P3517
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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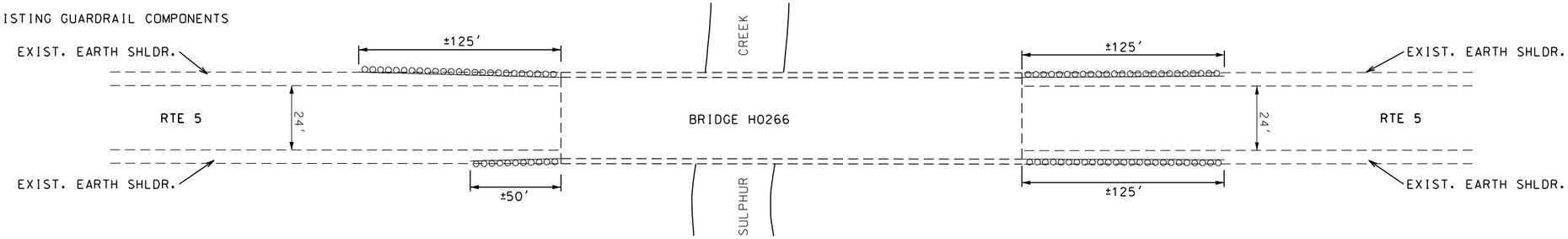
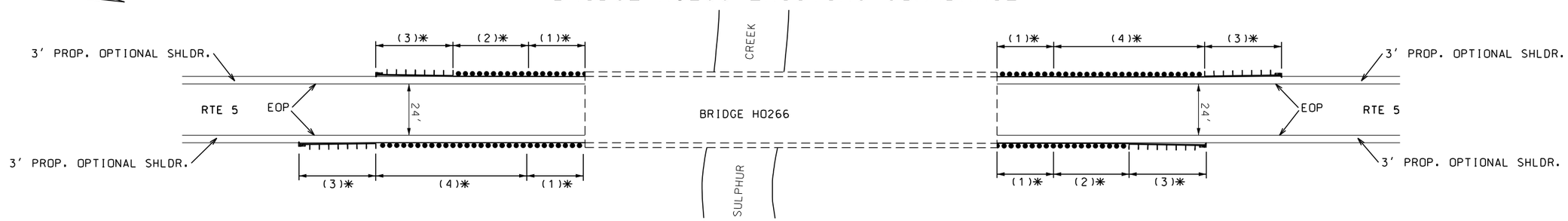
NOTE: REMOVE EXISTING GUARDRAIL COMPONENTS



BRIDGE H0266 EXISTING GUARDRAIL



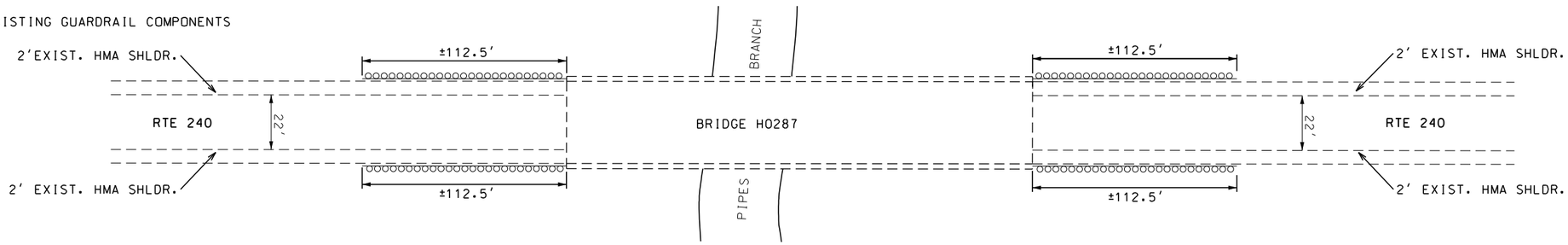
NOTE:

INSTALL NEW MGS GUARDRAIL COMPONENTS (TYPICAL ALL FOUR BRIDGE CORNERS)

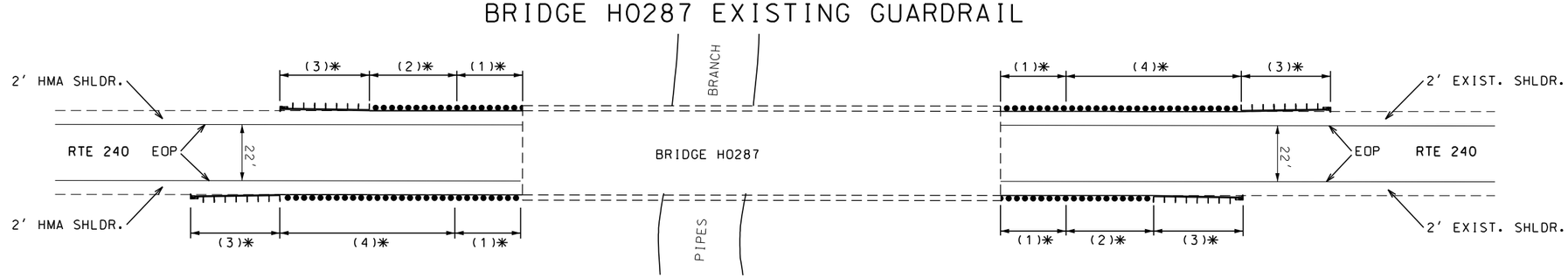
(1) - 37.5' MGS BRIDGE APPROACH TRANSITION (REG./NO CURB)
(2) - 50'MGS GUARDRAIL (4 SECTIONS)
(3) - 50' TYPE A CRASHWORTHY END TERMINAL (MASH)
(4) - 100' MGS GUARDRAIL (8 SECTIONS)
✱ - SHAPING SLOPES, CLASS III MAY BE REQUIRED FOR GRADING BEHIND GUARDRAIL AND CRASHWORTHY END TERMINALS. AS DIRECTED BY ENGINEER. SEE STANDARD PLAN 606.31B

BRIDGE H0266 MGS GUARDRAIL

NOTE: REMOVE EXISTING GUARDRAIL COMPONENTS



BRIDGE H0287 EXISTING GUARDRAIL



NOTE:

INSTALL NEW MGS GUARDRAIL COMPONENTS (TYPICAL ALL FOUR BRIDGE CORNERS)

(1) - 37.5' MGS BRIDGE APPROACH TRANSITION (THRIE-BEAM)
(2) - 62.5' MGS GUARDRAIL (5 SECTIONS)
(3) - 50' TYPE A CRASHWORTHY END TERMINAL (MASH)
(4) - 112.5' MGS GUARDRAIL (9 SECTIONS)
✱ - SHAPING SLOPES, CLASS III MAY BE REQUIRED FOR GRADING BEHIND GUARDRAIL AND CRASHWORTHY END TERMINALS. AS DIRECTED BY ENGINEER. SEE STANDARD PLAN 606.31B

BRIDGE H0287 MGS GUARDRAIL

NOT TO SCALE

SPECIAL SHEET
SHEET 9 OF 9

BRIDGE GUARDRAIL DETAILS
SHEET 1 OF 1

STATE OF MISSOURI
CURTIS D. SCHENK
NUMBER PE-2019029937
REGISTERED PROFESSIONAL ENGINEER

DATE PREPARED	7/28/2023
ROUTE	5/240
STATE	MO
DISTRICT	CD
SHEET NO.	12
COUNTY	HOWARD
JOB NO.	J5P3517
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

DATE	DESCRIPTION

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Galesburg, IL Fulton, MO Columbia, MO
Professional Engineers

GENERAL NOTES:

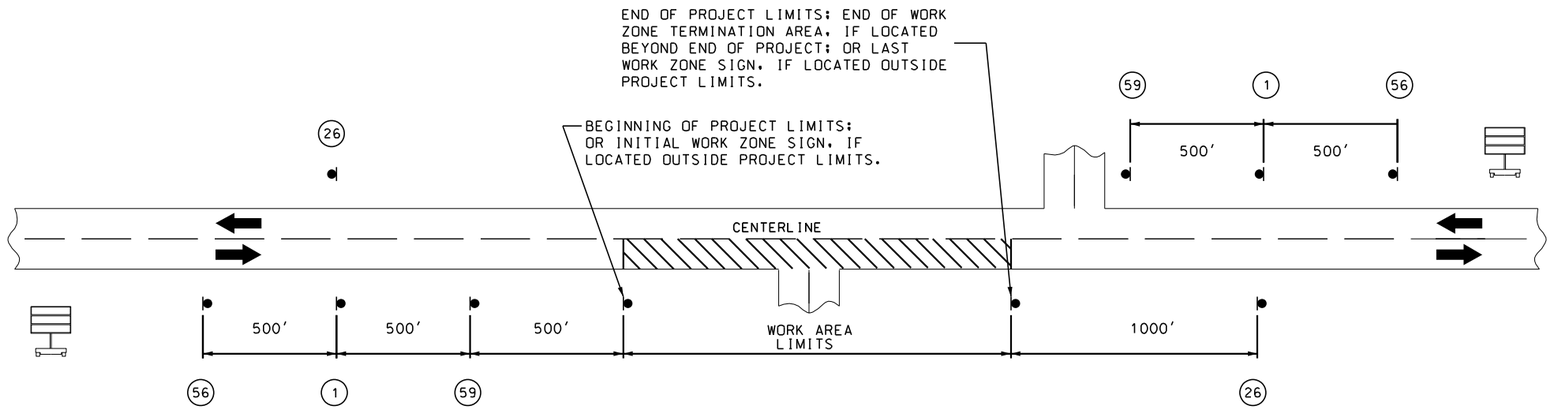
(1) ANY EXISTING SIGNING THAT CONFLICTS WITH THE TRAFFIC CONTROL SIGNING SHALL BE COMPLETELY COVERED OR REMOVED.

(2) DISTANCE MAY BE ADJUSTED ACCORDING TO FIELD CONDITIONS AND AS APPROVED BY THE ENGINEER. WHERE TRAFFIC BACKUPS ARE EXPECTED BEYOND THE ADVANCE WARNING AREA, ADDITIONAL SIGNING MAY BE NEEDED.

(3) CHANGABLE MESSAGE BOARDS SHALL BE PLACED AS APPROVED BY THE ENGINEER.

TRAFFIC CONTROL LEGEND

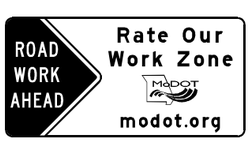
- SIGN (SINGLE SIDED)
- CHANGEABLE MESSAGE BOARD
- WORK AREA



NOTES:

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

PROVIDE SIGNS IN EACH DIRECTION ON TWO-WAY HIGHWAY.

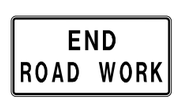


CONST-7-48

(56)

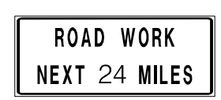
CONST-5 (96X48)

(57) ✳



G020-2

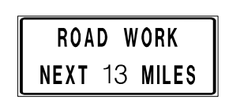
(26)



G020-1

(1)

(ROUTE 5)



G020-1

(1)

(ROUTE 240)

CONST-8

(59)

SEE SHEET 19 FOR SIGN DETAILS
PLACE AS APPROVED BY THE ENGINEER
WITHIN THE PROJECT LIMITS

✳ PLACE SIGN (57) AT BEGINNING OF ROUTE 5/240, ROUTE 5/HWY 40, AND ROUTE 240/HWY 40

NOT TO SCALE

TRAFFIC CONTROL
SHEET 1 OF 7

DURATION OF PROJECT
SHEET 1 OF 1

STATE OF MISSOURI
CURTIS D. SCHENK
NUMBER
PE-2019029937
REGISTERED PROFESSIONAL ENGINEER

DATE PREPARED	7/28/2023
ROUTE	5/240
STATE	MO
DISTRICT	CD
SHEET NO.	13
COUNTY	HOWARD
JOB NO.	J5P3517
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
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www.klingner.com
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Hannibal, MO Burlington, IA
Galesburg, IL Fort Madison, IA Columbia, MO
Designing Partnerships

W020-1

(02)

G020-4

(53)

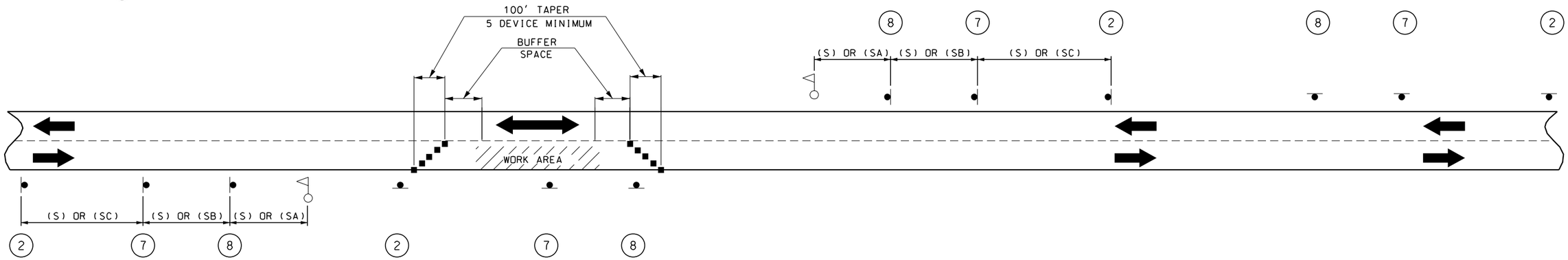
SIGN 53, "PILOT CAR FOLLOW ME" SHALL BE IN CONTRACTOR'S RESPONSIBILITY WHEN IN USE DURING OPERATION.

W020-4

(07)

W020-7a

(08)



SET 1	SET 2	SET 3	SET 4
ACTIVE	INACTIVE	ACTIVE	INACTIVE

SIGN SETS 1 AND 3 ARE ACTIVE AND (I.E., SIGNS FACE ONCOMING TRAFFIC).

SIGN SETS 2 AND 4 ARE INACTIVE (I.E., SIGNS DO NOT FACE EITHER DIRECTION OF TRAFFIC) WHEN THE RESURFACING OPERATION IS LOCATED BETWEEN SIGN SETS 1 AND 3.

WHEN SIGN SETS 2 AND 4 ARE ACTIVE, SIGN SETS 1 AND 3 BECOME INACTIVE AND ARE ADVANCED TO BECOME SETS 2 AND 4 WITH SIGN LEGENDS TURNED AWAY FROM BOTH DIRECTIONS OF TRAFFIC. WHEN THE RESURFACING OPERATION ADVANCES TO BETWEEN SIGN SETS 2 AND 4, SIGN SETS 2 AND 4 BECOME ACTIVE (I.E., NEW SIGN SETS 1 AND 3) AND SIGN SETS 1 AND 3 ADVANCED IN THE DIRECTION OF THE OPERATION (I.E., NEW SIGN SETS 2 AND 4).

■ - CHANNELIZERS

- FLAGGER

NOTES:

DAYLIGHT FLAGGING OPERATIONS ONLY.

CHANNELIZING DEVICES LOCATED DOWNSTREAM OF THE ONE-LANE, TWO-WAY TAPER ARE OPTIONAL. THESE DEVICES SHOULD BE ELIMINATED WHEN THEIR USE WILL REDUCE THE USABLE LANE WIDTH, INCLUDING ANY ACCEPTABLE SHOULDERS, TO LESS THAN 10' OR WILL SIGNIFICANTLY AFFECT THE RESURFACING OPERATION.

2 MILE MAXIMUM LENGTH OF LANE DROP UNLESS OTHERWISE APPROVED BY THE ENGINEER.

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

NOTES:

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

SPACINGS MAY BE ADJUSTED AS NECESSARY TO MEET FIELD CONDITIONS.

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

NOT TO SCALE

TRAFFIC CONTROL
SHEET 2 OF 7

LANE CLOSURE
SHEET 1 OF 1

STATE OF MISSOURI
CURTIS D. SCHENK
NUMBER
PE-2019029937
REGISTERED PROFESSIONAL ENGINEER

DATE PREPARED	7/28/2023
ROUTE	5/240
STATE	MO
DISTRICT	CD
SHEET NO.	14
COUNTY	HOWARD
JOB NO.	J5P3517
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)

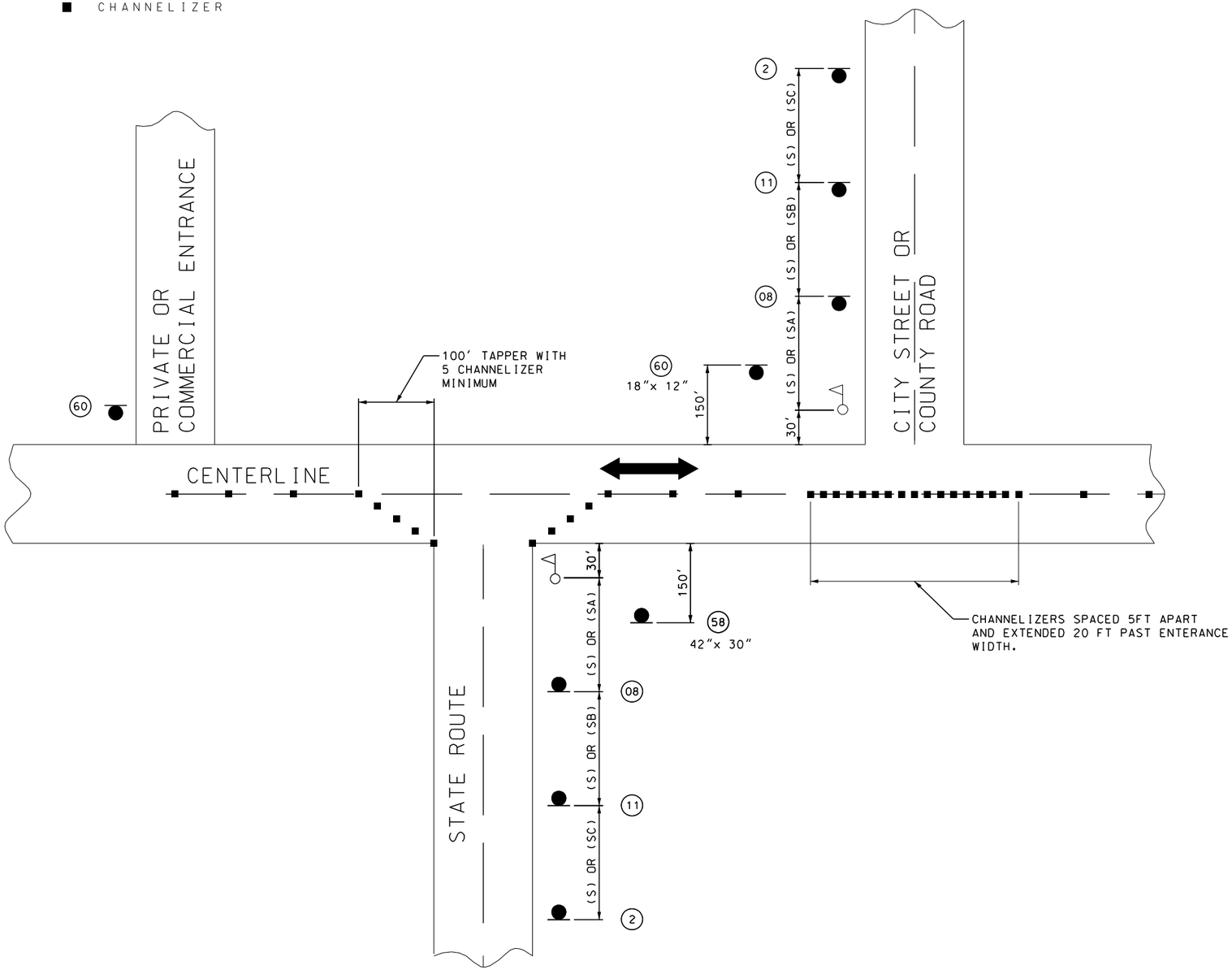
MISSOURI STATE CERTIFICATE OF AUTHORITY NO. 000866

KLINGNER & ASSOCIATES, P.C.
Engineers • Architects • Surveyors
www.klingner.com
Quincy, Illinois 618 North 24th Street 217-223-7373
Hannibal, MO Burlington, IA Galesburg, IL Fulton, MO Columbia, MO Bloomington, IN Cincinnati, OH

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

TRAFFIC CONTROL LEGEND

- SIGN (SINGLE SIDED)
- FLAGGER
- CHANNELIZER

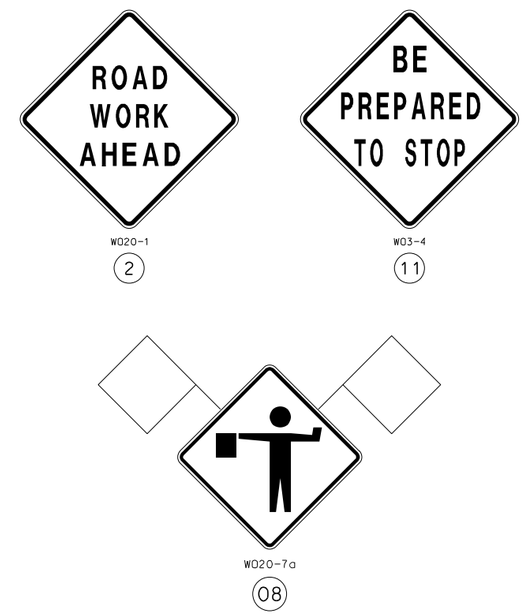


SPEED	SIGN SPACING (FT.)	
PERMANENT POSTED (MPH)	NON-DIVIDED HIGHWAYS (S)	DIVIDED HIGHWAYS (S)
0-35	200	200
40-45	350	500
50-55	500	1000
60-70	1000	(SA)-1000 (SB)-1500 (SC)-2640

DISTANCE MAY BE ADJUSTED ACCORDING TO FIELD CONDITIONS.

NOTES:
WARNING SIGNS SHALL BE ERECTED AT EACH INTERSECTION WITH ANOTHER STATE HIGHWAY WITHIN THE WORK ZONE.

ADDITIONAL WARNING SIGNS SHALL BE ERECTED AT OTHER INTERSECTIONS WITHIN THE WORK ZONE, AS DIRECTED BY THE ENGINEER.



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

* THE SMALLER 18"X 12" SIGN (60) IS USED ON ALL OTHER NON-STATE ROUTES (CITY STREETS, COUNTY ROADS, ECT.).

SHALL ONLY BE USED AT PRIVATE AND COMMERCIAL ENTRANCES. SEE SPECIAL PROVISIONS.

TRAFFIC CONTROL
SHEET 3 OF 7

SIDE ROUTES
SHEET 1 OF 1

NOT TO SCALE

STATE OF MISSOURI
CURTIS D. SCHENK
NUMBER PE-2019029937
REGISTERED PROFESSIONAL ENGINEER

DATE PREPARED	
7/28/2023	
ROUTE	STATE
5/240	MO
DISTRICT	SHEET NO.
CD	15
COUNTY	
HOWARD	
JOB NO.	
J5P3517	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

DATE	DESCRIPTION

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

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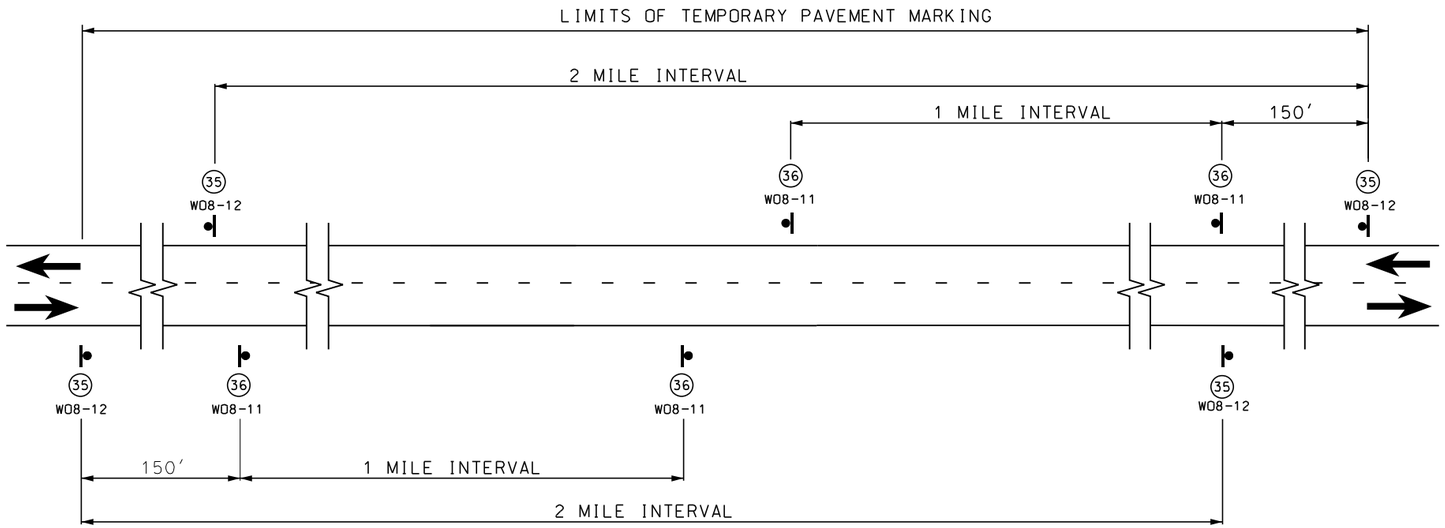
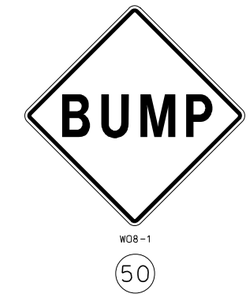
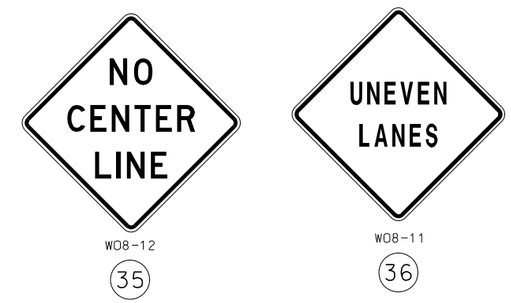
Gallatin, MO Fulton, MO Columbia, MO
Gallatin, IL Fulton, KY Columbia, KY
Bloomington, IN Cincinnati, OH

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

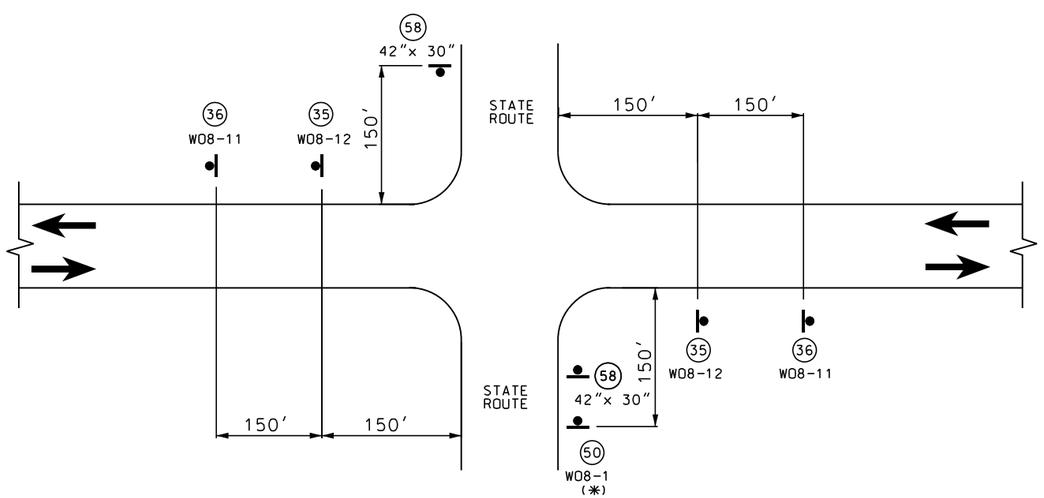


SIGN SPACING AND TEMPORARY STRIPING FOR MAINLINE





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



SIGN SPACING AT STATE ROUTE INTERSECTIONS
SHOWING TEMPORARY STRIPING FOR MAINLINE

(✱) BUMP SIGN SHOULD BE IN ACCORDANCE WITH STANDARD PLAN 619.10.

(1) ADDITIONAL SIDEROADS MAY BE SIGNED AS APPROVED BY THE ENGINEER.

NOTES:

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

SIGN (35) IS PLACED AT APPROXIMATELY TWO-MILE INTERVALS AND AT STATE ROUTE JUNCTIONS. WHEN THE INSTALLATION AT A JUNCTION IS WITHIN ONE-EIGHTH MILE OF THE NORMAL MAINLINE SIGN (35) , THE LATTER MAY BE ELIMINATED.

ALL SIGNS SHALL BE POST MOUNTED AND IN ACCORDANCE WITH STANDARD PLAN 616.10 AND 903.03.

NOT TO SCALE

TRAFFIC CONTROL
SHEET 4 OF 7

BUMP
NO CENTER LINE
UNEVEN LANES
SHEET 1 OF 1

STATE OF MISSOURI
CURTIS D. SCHENK
NUMBER PE-2019029937
REGISTERED PROFESSIONAL ENGINEER

DATE PREPARED	7/28/2023
ROUTE	5/240
STATE	MO
DISTRICT	CD
SHEET NO.	16
COUNTY	HOWARD
JOB NO.	J5P3517
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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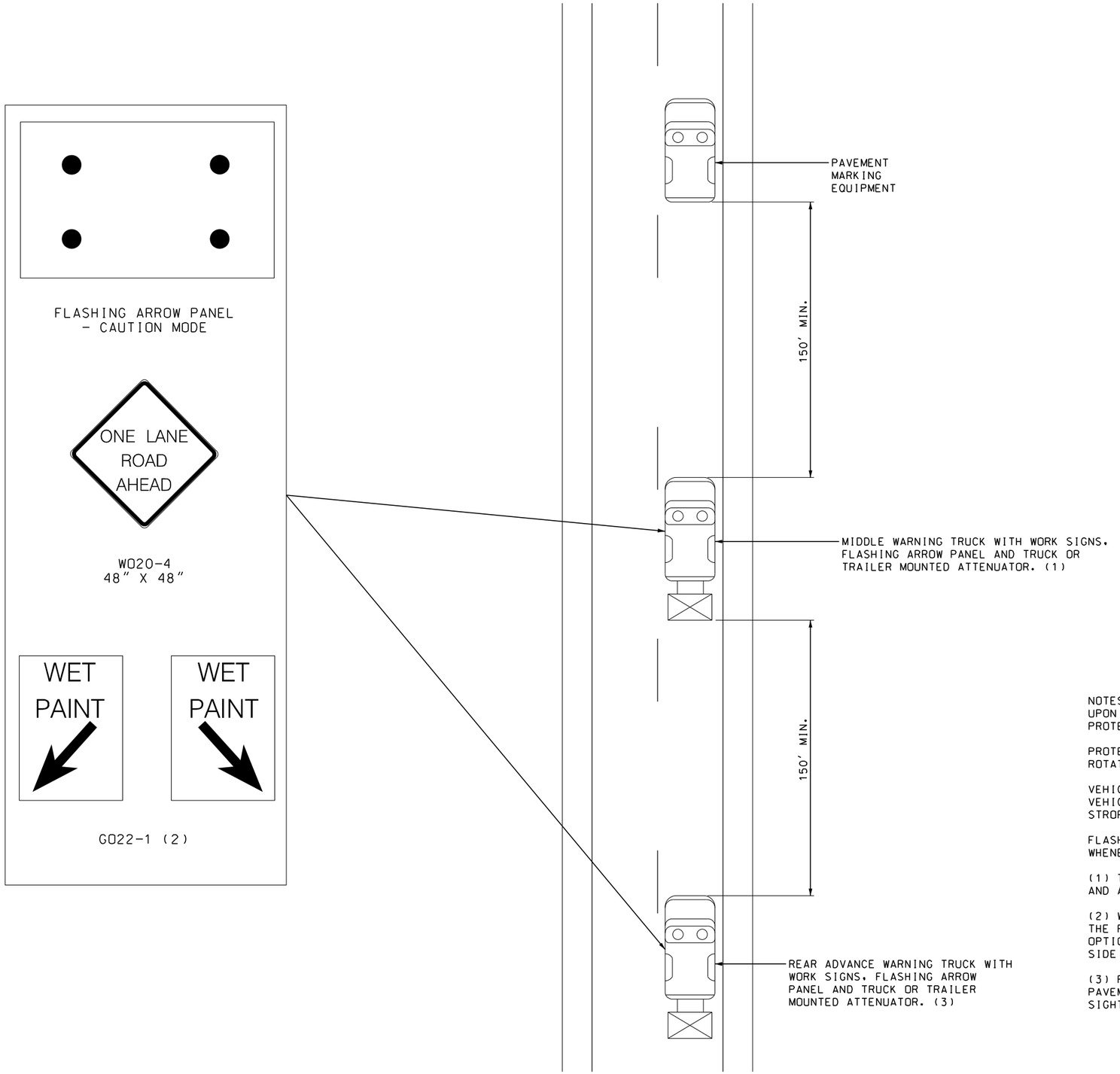
Galesburg, IL Falls, IA Columbia, MO
Bloomington, IL Cincinnati, IL



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

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

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

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

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

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

(3) REAR ADVANCE WARNING TRUCK IS POSITIONED AT THE NO TRACK POINT OF THE PAVEMENT MARKING MATERIAL, OR VERTICAL OR HORIZONTAL CURVES THAT RESTRICT SIGHT DISTANCE, OR SPACING SHOWN.

CENTERLINE/EDGELINE STRIPING ON TWO-LANE HIGHWAYS

NOT TO SCALE

TRAFFIC CONTROL
SHEET 5 OF 7

STRIPING OF PROJECT
SHEET 1 OF 1

STATE OF MISSOURI
CURTIS D. SCHENK
NUMBER
PE-2019029937
REGISTERED PROFESSIONAL ENGINEER

DATE PREPARED	7/28/2023
ROUTE	5/240
STATE	MO
DISTRICT	CD
SHEET NO.	17
COUNTY	HOWARD
JOB NO.	J5P3517
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)

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Downtown St. Louis, MO

W020-1

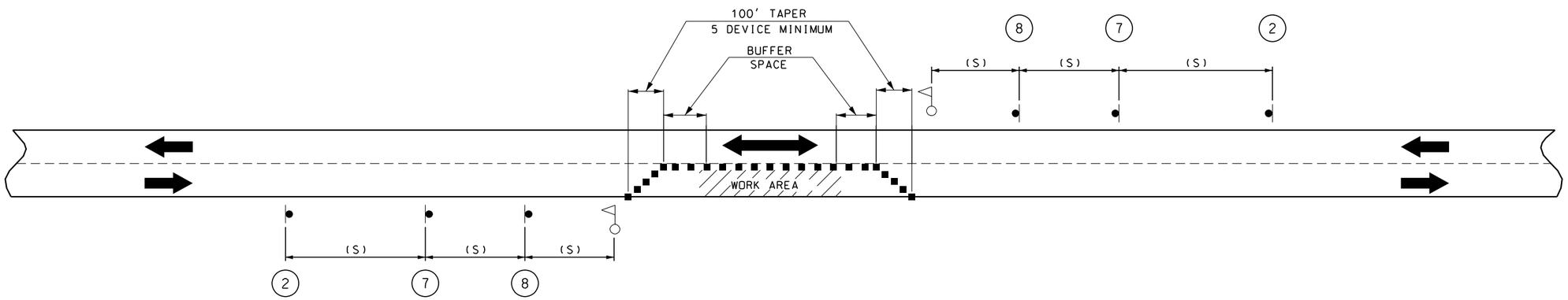
02

W020-4

07

W020-7a

08



PERMANENT POSTED SPEED LIMIT (MPH)	SIGN SPACING (1) (S) (FT)	BUFFER SPACE LENGTH (FT)	CHANNELIZER SPACING BUFFER/WORK AREAS (FT)
0 - 35	200	280	40
40 - 45	350	400	80
50 - 55	500	560	80
60 - 70	1000	840	120

■ - CHANNELIZERS

- FLAGGER

NOTES:

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

SPACINGS MAY BE ADJUSTED AS NECESSARY TO MEET FIELD CONDITIONS.

NOTES:

DAYLIGHT FLAGGING OPERATIONS ONLY.

CHANNELIZING DEVICES LOCATED DOWNSTREAM OF THE ONE-LANE, TWO-WAY TAPER ARE OPTIONAL. THESE DEVICES SHOULD BE ELIMINATED WHEN THEIR USE WILL REDUCE THE USABLE LANE WIDTH, INCLUDING ANY ACCEPTABLE SHOULDERS, TO LESS THAN 10' OR WILL SIGNIFICANTLY AFFECT THE RESURFACING OPERATION.

2 MILE MAXIMUM LENGTH OF LANE DROP UNLESS OTHERWISE SPECIFIED BY THE ENGINEER.

NOT TO SCALE

TRAFFIC CONTROL
SHEET 6 OF 7

LANE CLOSURE
SHEET 1 OF 1

STATE OF MISSOURI
CURTIS D. SCHENK
NUMBER
PE-2019029937
REGISTERED PROFESSIONAL ENGINEER

DATE PREPARED	
7/28/2023	
ROUTE 5/240	STATE MO
DISTRICT CD	SHEET NO. 18
COUNTY HOWARD	
JOB NO. J5P3517	
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

MoDOT

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JEFFERSON CITY, MO 65102
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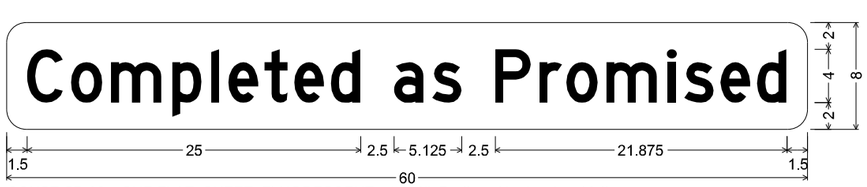
Professional Engineers & Surveyors

CONST-5-96 SH-FLAT SHEET; 3.000" Radius, 1.000" Border, White on Blue;
[Road] D; [Resurfacing] D; [Spring 2020] D;
Table of letter and object lefts.

R 7.500	o 14.750	a 20.750	d 27.375

R 7.500	e 14.750	s 20.625	u 27.125	r 34.250	f 38.500	a 42.875	c 49.500	i 56.000	n 59.875	g 66.500

7.500	S 37.375	p 43.000	r 48.000	i 51.625	n 54.500	g 59.500	2 68.875	0 74.000	2 79.375	0 84.500



CONST-5P-60 SHF-FLAT SHEET FLUORESCENT; 1.500" Radius, No border, Yellow;
[Completed as Promised] Black D 65% spacing;
Table of letter and object lefts.

C 1.500	o 4.875	m 7.875	p 12.375	l 15.375	e 16.625	t 19.375	e 21.500	d 24.250	a 29.000	s 31.875

P 36.625	r 39.875	o 41.875	m 44.875	i 49.500	s 50.750	e 53.500	d 56.250

NOT TO SCALE

TRAFFIC CONTROL
SHEET 7 OF 7

POINT OF PRESENCE SIGN
SHEET 1 OF 1

STATE OF MISSOURI
CURTIS D. SCHENK
NUMBER
PE-2019029937
REGISTERED PROFESSIONAL ENGINEER

DATE PREPARED	
7/28/2023	
ROUTE 5/240	STATE MO
DISTRICT CD	SHEET NO. 19
COUNTY HOWARD	
JOB NO. J5P3517	
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)

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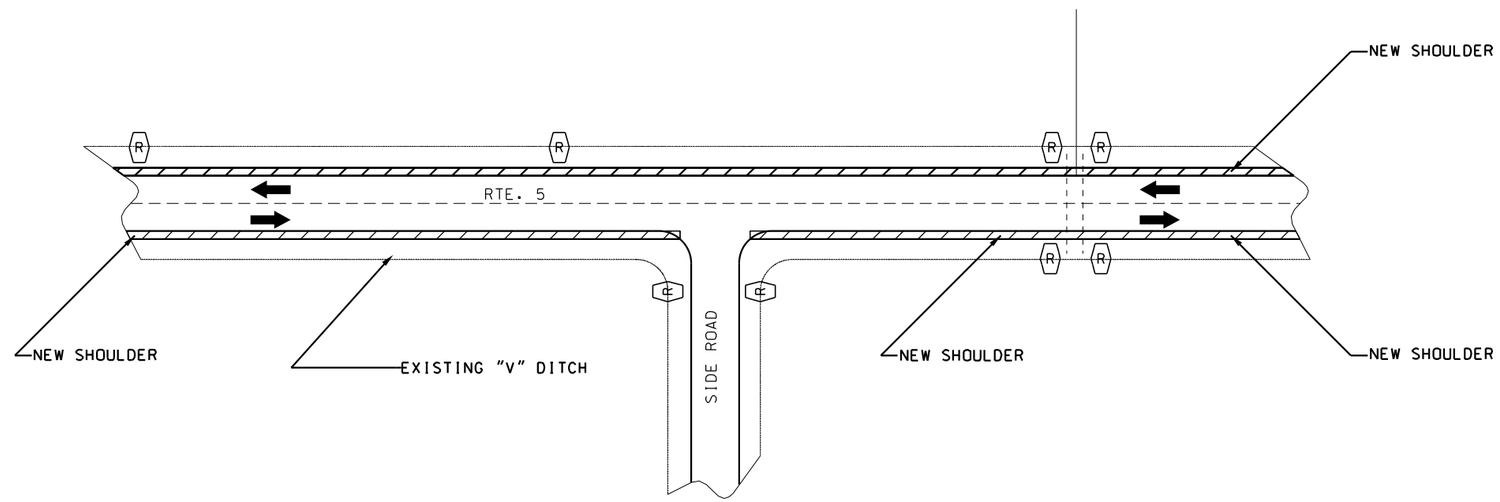
217-223-7373
Hannibal, MO Burlington, IA
Galesburg, IL Fulton, MO Columbia, MO
Bloomington, IL Concordia, MO

GENERAL NOTES:

1) ALL TEMPORARY EROSION CONTROL MEASURES TO BE PLACED IN A LOCATION THAT PREVENTS SEDIMENT FROM ENTERING ANY STREAM OR FROM LEAVING THE RIGHT OF WAY. EXACT SIZE AND LOCATION OF ALL TEMPORARY EROSION CONTROL MEASURES TO BE DETERMINED IN THE FIELD BY THE CONTRACTOR AND APPROVED BY THE ENGINEER PRIOR TO INSTALLATION.

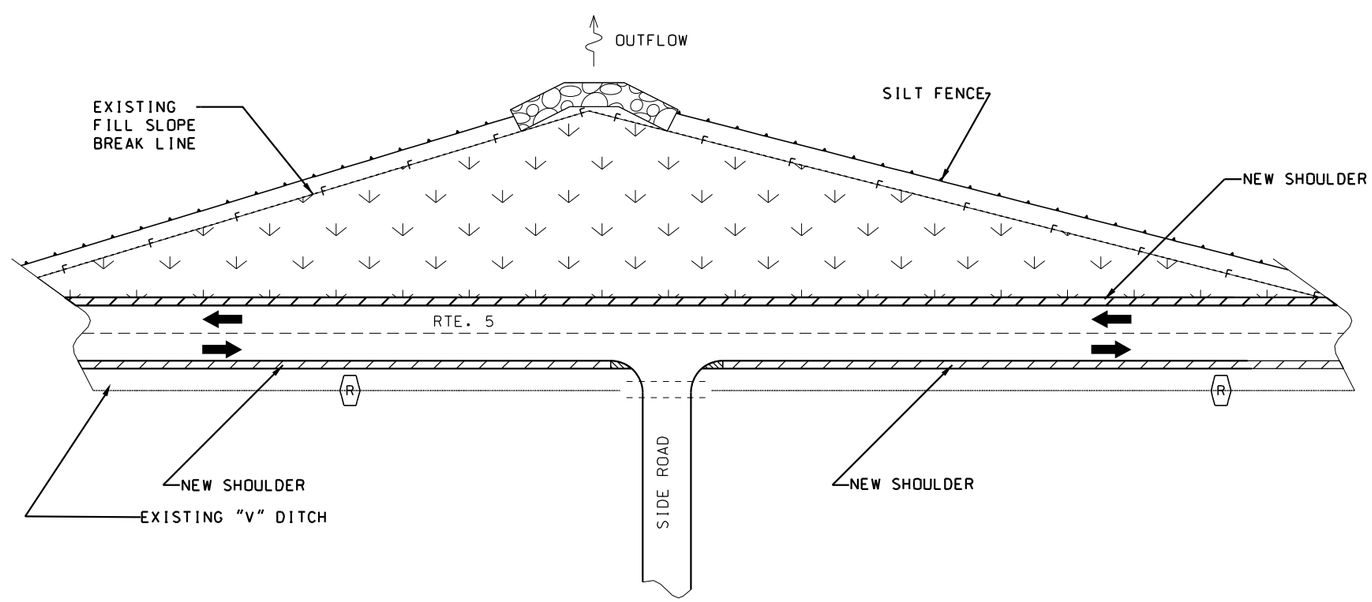
2) REFER TO JOB SPECIAL PROVISIONS AND STANDARD PLAN 806.10J FOR ALL TEMPORARY EROSION CONTROL MEASURES.

SEE EROSION CONTROL SHEET 2 FOR FOR DRAINAGE STRUCTURES



TEMPORARY EROSION CONTROL LEGEND

- ROCK DITCH CHECK
- SEDIMENT TRAP
- ALTERNATE DITCH CHECK (SEDIMENT LOG/WATTLE)
- SILT FENCE
- EXISTING FILL SLOPE
- EXISTING "V" DITCH
- EXISTING CULVERT
- EXISTING VEGETATION



NOT TO SCALE

EROSION CONTROL
SHEET 1 OF 2

STATE OF MISSOURI
CURTIS D. SCHENK
NUMBER PE-2019029937
REGISTERED PROFESSIONAL ENGINEER

DATE PREPARED	7/28/2023
ROUTE	5/240
STATE	MO
DISTRICT	CD
SHEET NO.	20
COUNTY	HOWARD
JOB NO.	J5P3517
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

DATE	DESCRIPTION

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JEFFERSON CITY, MO 65102
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Bridgeport, CT Cincinnati, OH

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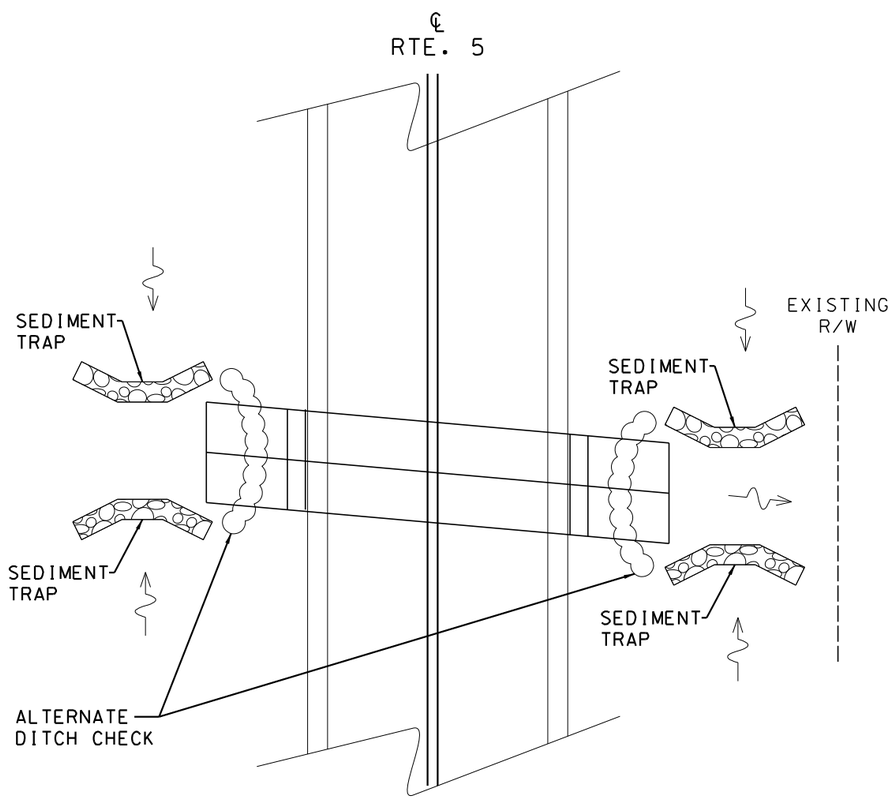
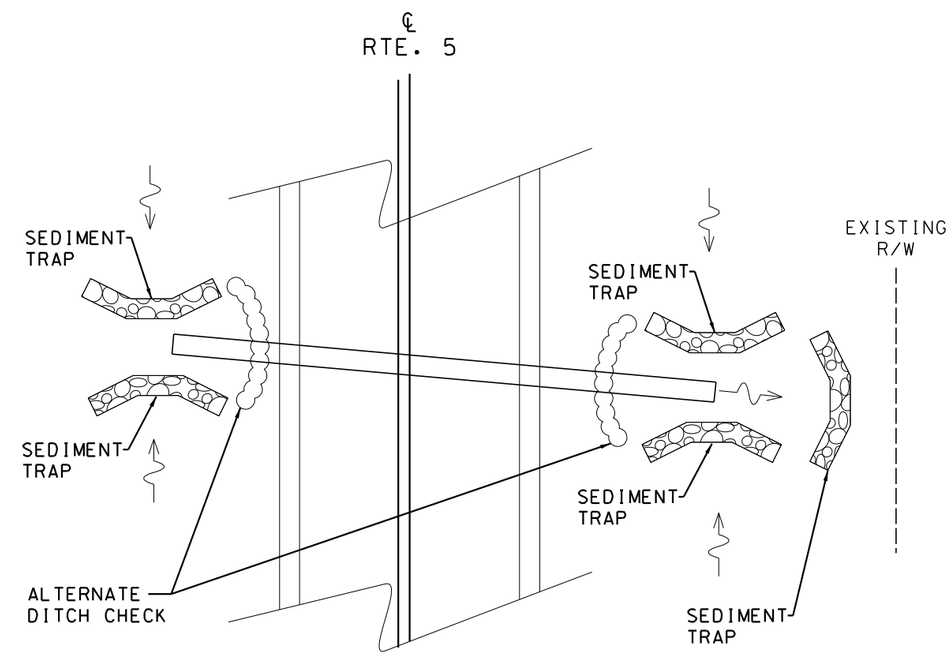
LARGE DRAINAGE STRUCTURE CROSSINGS PLACING DETAILS



SMALL DRAINAGE STRUCTURE CROSSINGS PLACING DETAILS



NOT TO SCALE

EROSION CONTROL
SHEET 2 OF 2

STATE OF MISSOURI
CURTIS D. SCHENK
NUMBER PE-2019029937
REGISTERED PROFESSIONAL ENGINEER

DATE PREPARED	7/28/2023
ROUTE	5/240
STATE	MO
DISTRICT	CD
SHEET NO.	21
COUNTY	HOWARD
JOB NO.	J5P3517
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

DATE	DESCRIPTION

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Gallatin, IL Fulton, KY Columbia, MO
Bremerton, WA Cincinnati, OH

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