MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

PLANS FOR PROPOSED STATE HIGHWAY KNOX/SHELBY COUNTY

T63N-T58N, R012W-R09W

DESIGN DESIGNATION

RTE B - KNOX/SHELBY
A.A.D.T. - 2027 = 125
V = 55 M.P.H.

RTE E - KNOX/SHELBY
A.A.D.T. - 2027 = 388
V = 55 M.P.H.

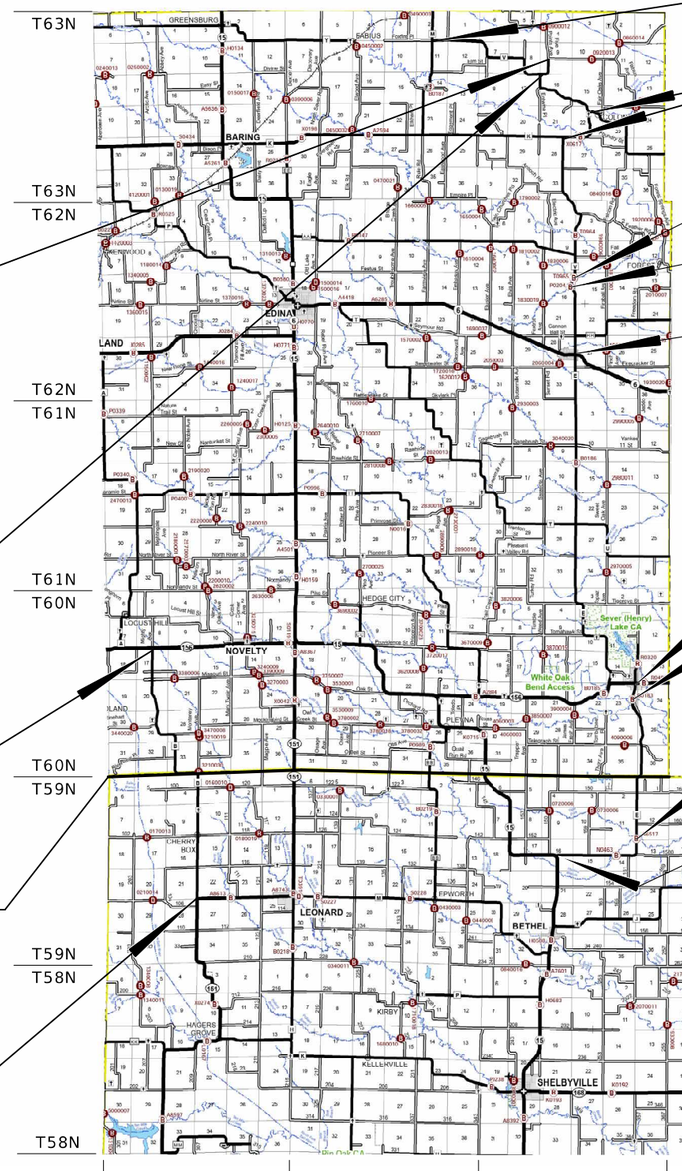
RTE V - KNOX
A.A.D.T. - 2027 = 486
V = 55 M.P.H.

SP V - KNOX
A.A.D.T. - 2027 = 94
V = 55 M.P.H.

RTE W - SHELBY
A.A.D.T. - 2027 = 382
V = 55 M.P.H.



KEY MAP
LOCATION OF KNOX & SHELBY COUNTY



BEG OF SP V
LOG MILE 0.000

1" SURFACE LEVELING
SP V

END OF SP V
LOG MILE 0.693

BEG OF RTE B
LOG MILE 0.009

1" SURFACE LEVELING
RTE B

END OF RTE B
LOG MILE 9.102

KNOX
SHELBY

BEG OF RTE V
LOG MILE 0.008

DISCONNECT/RTE K
LM 6.535 TO LM 8.171

BRIDGE T0964 EXCEPTION
LM 11.563 TO LM 11.588

BRIDGE T0965 EXCEPTION
LM 12.897 TO LM 12.915

END OF RTE V
LOG MILE 15.411

1" SURFACE LEVELING
RTE V

BEG OF RTE E
LOG MILE 12.125

BRIDGE B0183 EXCEPTION
LM 12.629 TO LM 12.662

BRIDGE A6517 EXCEPTION
LM 17.224 TO LM 17.249

END OF RTE E
LOG MILE 20.255

1" SURFACE LEVELING
RTE E

BEG OF RTE W
LOG MILE 4.104

BRIDGE P0040 EXCEPTION
LM 4.880 TO LM 4.908

BRIDGE R0559 EXCEPTION
LM 8.235 TO LM 8.290

END OF RTE W
LOG MILE 10.983

1" SURFACE LEVELING
RTE W

INDEX OF SHEETS

DESCRIPTION	SHEET NUMBER
TITLE SHEET	1
TYPICAL SECTIONS (TS) (5 SHEETS)	2
QUANTITIES (QU) (8 SHEETS)	3
SPECIAL SHEET (SS)	4-10

LENGTH OF PROJECT

RTE B
BEGIN OF RTE B — LOG MILE 0.009
END OF RTE B — LOG MILE 9.102
APPARENT LENGTH — MILES 9.093

EQUATIONS AND EXCEPTIONS:
N/A

TOTAL CORRECTIONS — 0.000 MILES
NET LENGTH OF PROJECT — 9.093 MILES
STATE LENGTH — 9.093 MILES

RTE E
BEGIN OF RTE E — LOG MILE 12.125
END OF RTE E — LOG MILE 20.255
APPARENT LENGTH — MILES 8.130

EQUATIONS AND EXCEPTIONS:
BR B0183 — 0.033 MILES
BR A6517 — 0.025 MILES

TOTAL CORRECTIONS — 0.058 MILES
NET LENGTH OF PROJECT — 8.072 MILES
STATE LENGTH — 8.072 MILES

RTE V
BEGIN OF RTE V — LOG MILE 0.008
END OF RTE V — LOG MILE 15.411
APPARENT LENGTH — MILES 15.403

EQUATIONS AND EXCEPTIONS:
DISCONNECT/RTE K — 1.636 MILES
BR T0964 — 0.025 MILES
BR T0965 — 0.018 MILES

TOTAL CORRECTIONS — 1.679 MILES
NET LENGTH OF PROJECT — 13.724 MILES
STATE LENGTH — 13.724 MILES

SP V
BEGIN OF SP V — LOG MILE 0.000
END OF SP V — LOG MILE 0.693
APPARENT LENGTH — MILES 0.693

EQUATIONS AND EXCEPTIONS:
N/A

TOTAL CORRECTIONS — 0.000 MILES
NET LENGTH OF PROJECT — 0.693 MILES
STATE LENGTH — 0.693 MILES

RTE W
BEGIN OF RTE W — LOG MILE 4.104
END OF RTE W — LOG MILE 10.983
APPARENT LENGTH — MILES 6.879

EQUATIONS AND EXCEPTIONS:
BR P0040 — 0.028 MILES
BR R0599 — 0.055 MILES

TOTAL CORRECTIONS — 0.083 MILES
NET LENGTH OF PROJECT — 6.796 MILES
STATE LENGTH — 6.796 MILES

FOR INFORMATION ONLY
ESTIMATED DISTURBED ACRES — 0 ACRES

STATE OF MISSOURI
DALTON Z. HANDLING
NUMBER PE-2026013017
PROFESSIONAL ENGINEER
09/28/2026 4:01:11 PM
DALTON Z. HANDLING - CIVIL
MO-PE-2026013017

DATE PREPARED
9/24/2026

ROUTE	STATE
VAR	MO
DISTRICT	SHEET NO.
NE	1

COUNTY
KNOX/SHELBY

JOB NO.
JST0182

CONTRACT ID.

PROJECT NO.

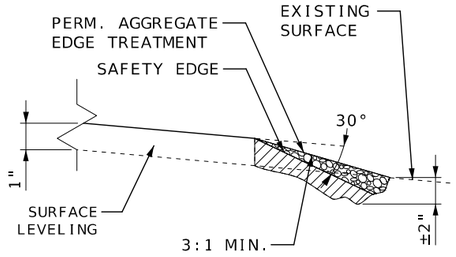
BRIDGE NO.

DESCRIPTION	DATE

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

TITLE SHEET

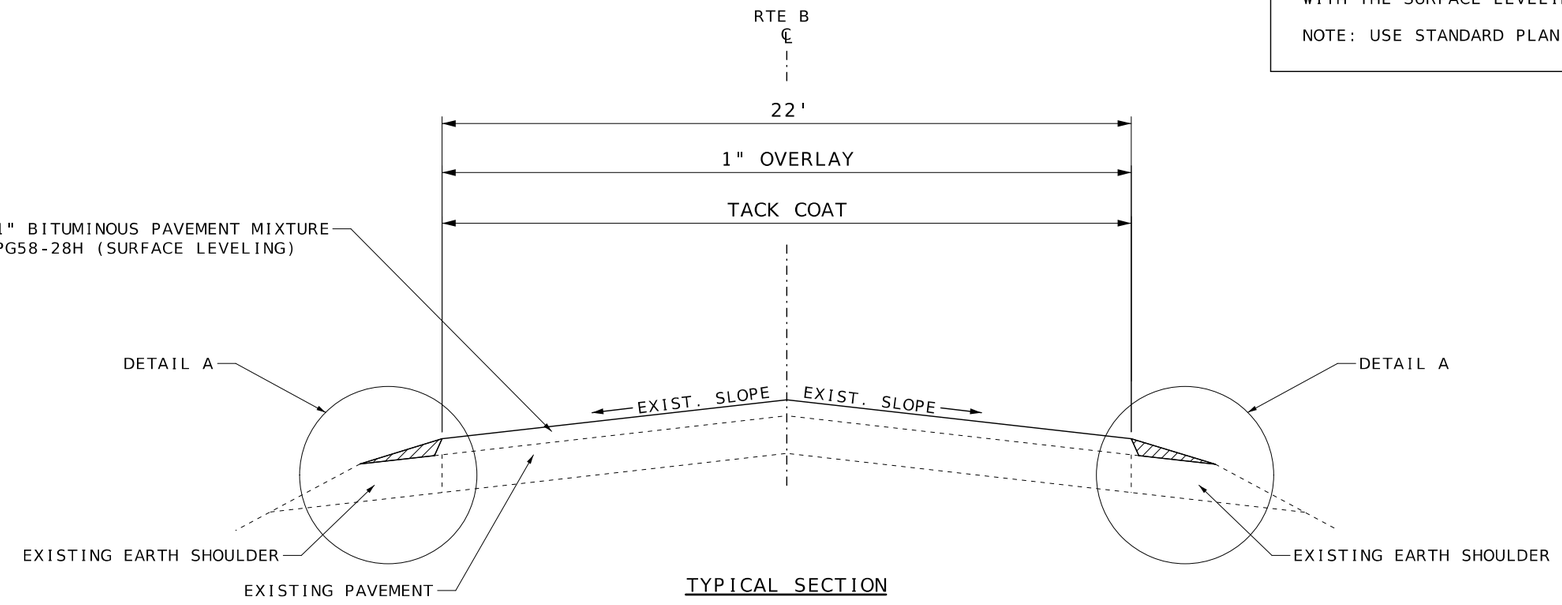
DETAIL A



NOTE:

THE ASPHALT SAFETY EDGE SHALL BE LAID MONOLITHICALLY WITH THE SURFACE LEVELING AND ONE PASS.

NOTE: USE STANDARD PLAN 401.00D FOR SAFETY EDGE.



TYPICAL SECTION

LM 0.009 TO LM 9.102

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

ESTIMATE FACTORS
PROVIDED FOR INFORMATION PURPOSES ONLY
BITUMINOUS PAVEMENT MIXTURE PG 58-28H (BP-1) = 1.948 TON/CY
TACK COAT (EXISTING SURFACE) = 0.08 GAL/SY
TACK COAT (COLDMILLING SURFACE) = 0.10 GAL/SY
PERM. AGGREGATE EDGE TREATMENT = 0.044 TON/SY/IN OR 1.6 TONS/CY
GRAVEL, CRUSH STONE AND CHAT = 1.40 TONS / CY OF LOOSE AGG.

STATE OF MISSOURI
DALTON Z. HANDLING
NUMBER PE-2026013017
PROFESSIONAL ENGINEER
09/28/2026 4:01:43 PM
DALTON Z. HANDLING - CIVIL
MO-PE-2026013017

DATE PREPARED: 9/24/2026

ROUTE	STATE
VAR	MO
DISTRICT	SHEET NO.
NE	2

COUNTY: KNOX/SHELBY

JOB NO.: JST0182

CONTRACT ID.:

PROJECT NO.:

BRIDGE NO.:

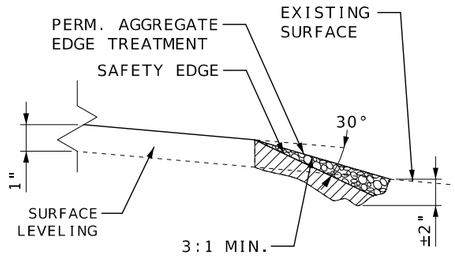
DESCRIPTION	DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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

RTE B - KNOX/SHELBY
TYPICAL SECTION
SHEET 1 OF 5
NOT TO SCALE

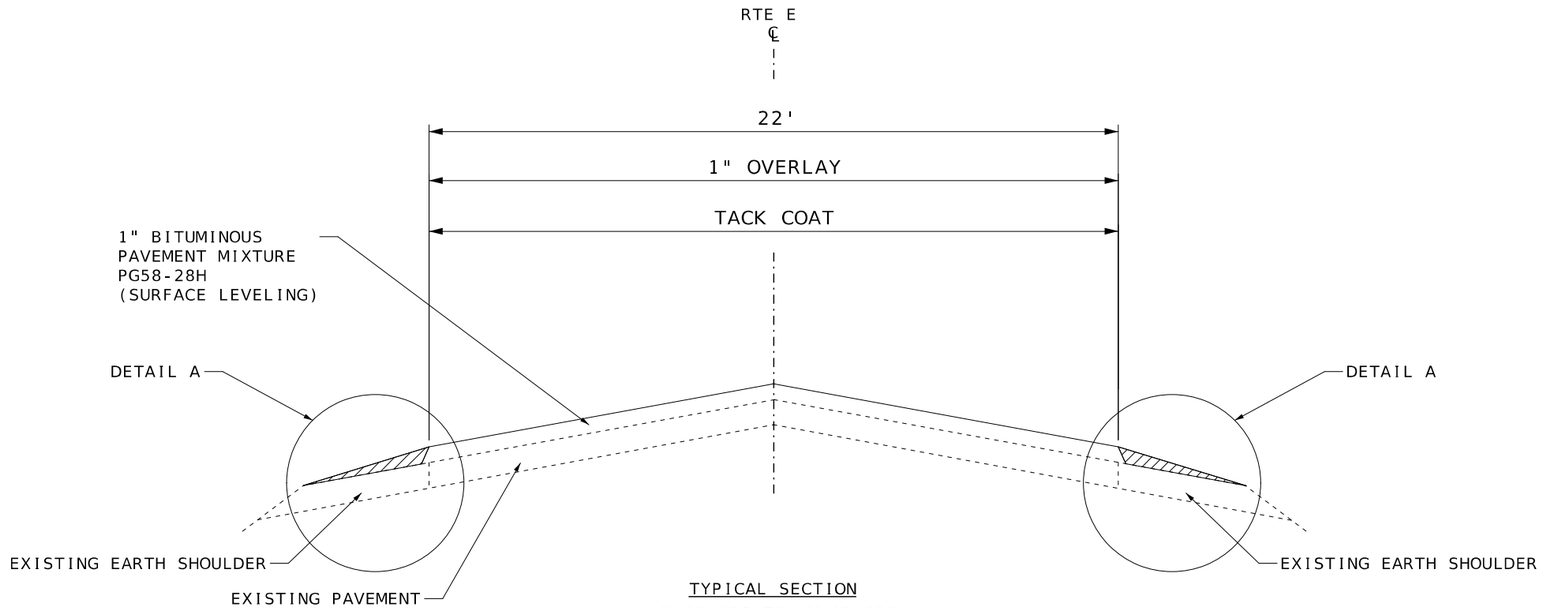
DETAIL A



NOTE:

THE ASPHALT SAFETY EDGE SHALL BE LAID MONOLITHICALLY WITH THE SURFACE LEVELING AND ONE PASS.

NOTE: USE STANDARD PLAN 401.00D FOR SAFETY EDGE.



TYPICAL SECTION

LM 12.125 TO LM 12.629
LM 12.662 TO LM 17.224 †
LM 17.249 TO LM 20.255 †

EXCEPTIONS

† BRIDGE EXC B0183
LM 12.629 TO LM 12.662

† BRIDGE EXC A6517
LM 17.224 TO LM 17.249

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

ESTIMATE FACTORS
PROVIDED FOR INFORMATION PURPOSES ONLY
BITUMINOUS PAVEMENT MIXTURE PG 58-28H (BP-1) = 1.948 TON/CY
TACK COAT (EXISTING SURFACE) = 0.08 GAL/SY
TACK COAT (COLDMILLING SURFACE) = 0.10 GAL/SY
PERM. AGGREGATE EDGE TREATMENT = 0.044 TON/SY/IN OR 1.60 TONS/CY
GRAVEL, CRUSH STONE AND CHAT = 1.40 TONS / CY OF LOOSE AGG.

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NUMBER PE-2026013017
PROFESSIONAL ENGINEER
09/28/2026 4:02:11 PM
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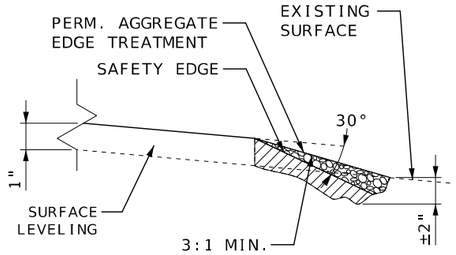
DATE PREPARED	
9/24/2026	
ROUTE	STATE
VAR	MO
DISTRICT	SHEET NO.
NE	2
COUNTY	
KNOX/SHELBY	
JOB NO.	
JST0182	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

DESCRIPTION	DATE

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

RTE E - KNOX/SHELBY
TYPICAL SECTION
SHEET 2 OF 5
NOT TO SCALE

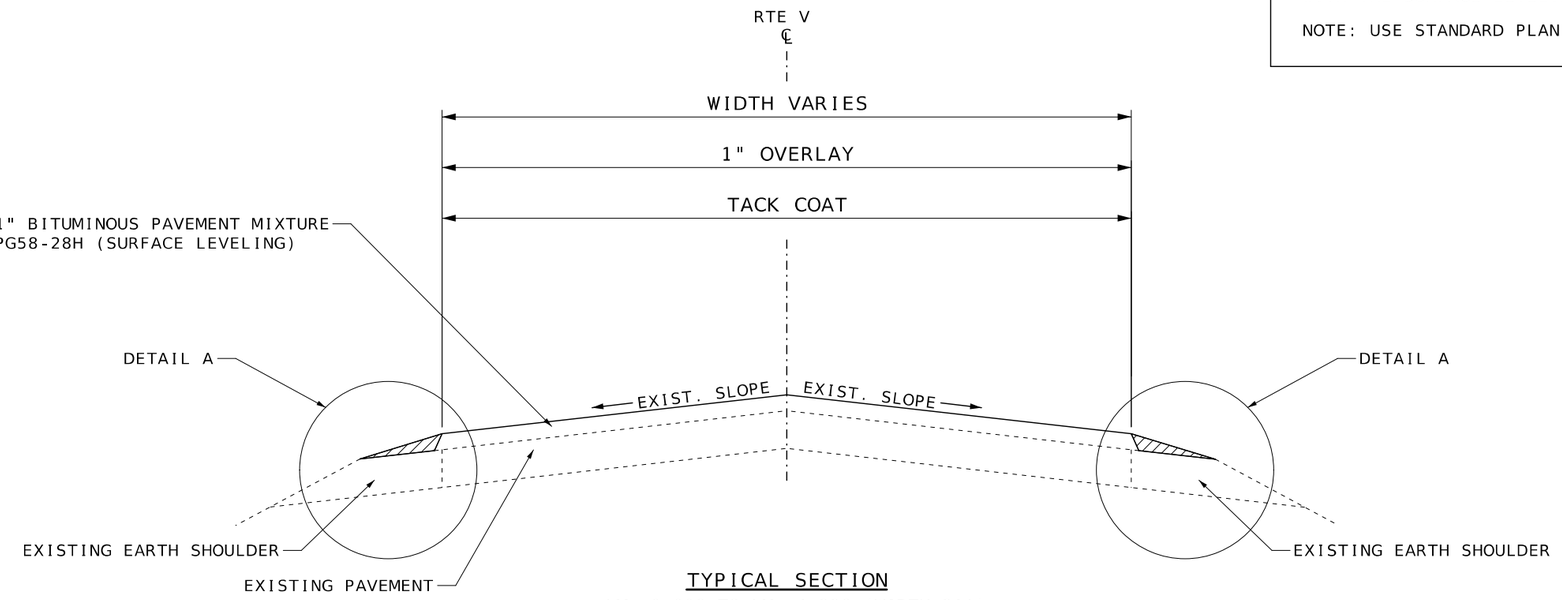
DETAIL A



NOTE:

THE ASPHALT SAFETY EDGE SHALL BE LAID MONOLITHICALLY WITH THE SURFACE LEVELING AND ONE PASS.

NOTE: USE STANDARD PLAN 401.00D FOR SAFETY EDGE.



TYPICAL SECTION

LM 0.008 TO LM 4.228 (WIDTH 21')
LM 4.228 TO LM 4.254 (WIDTH VARIES: RTE V/SP V INTERSECTION)
LM 4.254 TO LM 6.535 (WIDTH 23')
LM 8.171 TO LM 11.563 (WIDTH 21')†
LM 11.588 TO LM 12.897 (WIDTH 21')†
LM 12.915 TO LM 15.411 (WIDTH 21')†

EXCEPTIONS

† DISCONNECT/RTE K
LM 6.535 TO LM 8.171

† BRIDGE T0964
LM 11.563 TO LM 11.588

† BRIDGE T0965
LM 12.897 TO LM 12.915

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

ESTIMATE FACTORS
PROVIDED FOR INFORMATION PURPOSES ONLY
BITUMINOUS PAVEMENT MIXTURE PG 58-28H (BP-1) = 1.948 TON/CY
TACK COAT (EXISTING SURFACE) = 0.08 GAL/SY
TACK COAT (COLDMILLING SURFACE) = 0.10 GAL/SY
PERM. AGGREGATE EDGE TREATMENT = 0.044 TON/SY/IN OR 1.6 TONS/CY
GRAVEL, CRUSH STONE AND CHAT = 1.40 TONS / CY OF LOOSE AGG.

STATE OF MISSOURI
DALTON Z. HANDLING
NUMBER PE-2026013017
PROFESSIONAL ENGINEER
09/28/2026 4:02:43 PM
DALTON Z. HANDLING - CIVIL
MO-PE-2026013017

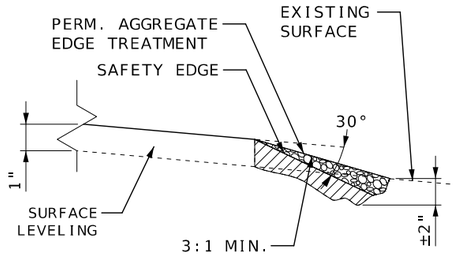
DATE PREPARED: 9/24/2026
ROUTE: VAR | STATE: MO
DISTRICT: NE | SHEET NO.: 2
COUNTY: KNOX/SHELBY
JOB NO.: JST0182
CONTRACT ID.:
PROJECT NO.:
BRIDGE NO.:

DESCRIPTION | DATE

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

RTE V - KNOX
TYPICAL SECTION
SHEET 3 OF 5
NOT TO SCALE

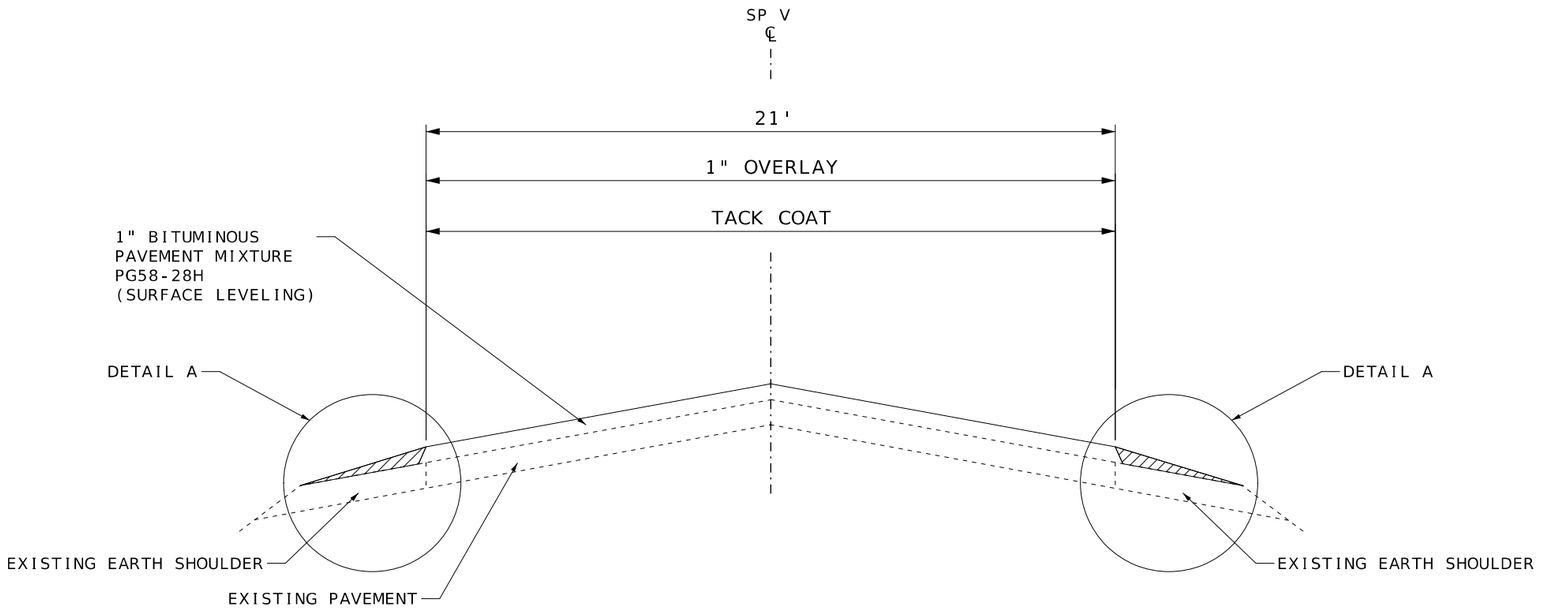
DETAIL A



NOTE:

THE ASPHALT SAFETY EDGE SHALL BE LAID MONOLITHICALLY WITH THE SURFACE LEVELING AND ONE PASS.

NOTE: USE STANDARD PLAN 401.00D FOR SAFETY EDGE.



TYPICAL SECTION

LM 0.000 TO LM 0.693

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

ESTIMATE FACTORS
PROVIDED FOR INFORMATION PURPOSES ONLY
BITUMINOUS PAVEMENT MIXTURE PG 58-28H (BP-1) = 1.948 TON/CY
TACK COAT (EXISTING SURFACE) = 0.08 GAL/SY
TACK COAT (COLDMILLING SURFACE) = 0.10 GAL/SY
PERM. AGGREGATE EDGE TREATMENT = 0.044 TON/SY/IN OR 1.60 TONS/CY
GRAVEL, CRUSH STONE AND CHAT = 1.40 TONS / CY OF LOOSE AGG.

STATE OF MISSOURI
DALTON Z. HANDLING
NUMBER PE-2026013017
PROFESSIONAL ENGINEER
09/28/2025 4:03:03 PM
DALTON Z. HANDLING - CIVIL
MO-PE-2026013017

DATE PREPARED: 9/24/2026

ROUTE	STATE
VAR	MO
DISTRICT	SHEET NO.
NE	2

COUNTY: KNOX/SHELBY

JOB NO.: JST0182

CONTRACT ID.:

PROJECT NO.:

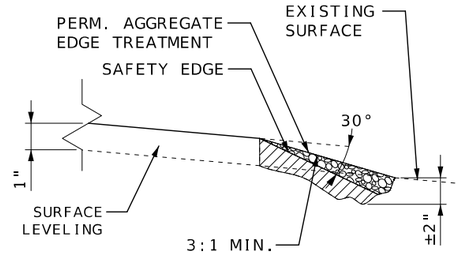
BRIDGE NO.:

DESCRIPTION	DATE

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

SP V - KNOX
TYPICAL SECTION
SHEET 4 OF 5
NOT TO SCALE

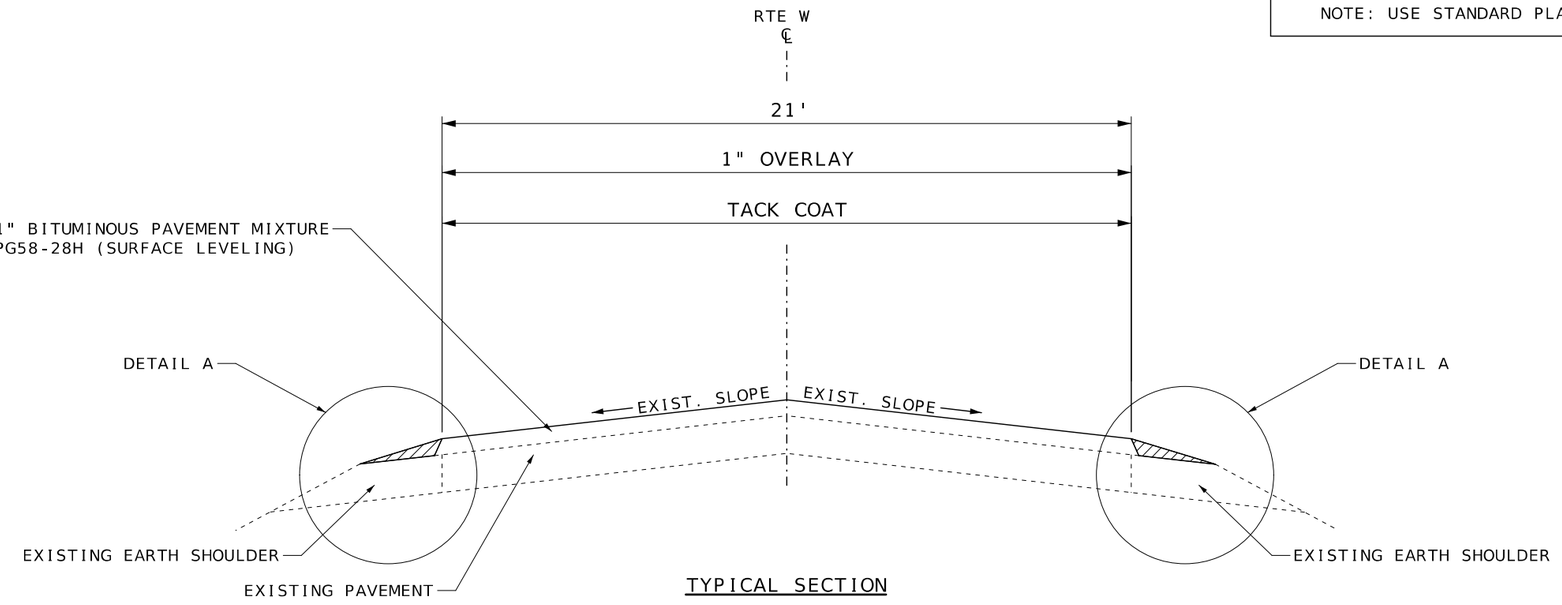
DETAIL A



NOTE:

THE ASPHALT SAFETY EDGE SHALL BE LAID MONOLITHICALLY WITH THE SURFACE LEVELING AND ONE PASS.

NOTE: USE STANDARD PLAN 401.00D FOR SAFETY EDGE.



TYPICAL SECTION

LM 4.104 TO LM 4.880†
LM 4.908 TO LM 8.235†
LM 8.290 TO LM 10.983

EXCEPTIONS

† BRIDGE P0040
LM 4.880 TO LM 4.908

† BRIDGE R0599
LM 8.235 TO LM 8.290

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

ESTIMATE FACTORS
PROVIDED FOR INFORMATION PURPOSES ONLY
BITUMINOUS PAVEMENT MIXTURE PG 58-28H (BP-1) = 1.948 TON/CY
TACK COAT (EXISTING SURFACE) = 0.08 GAL/SY
TACK COAT (COLDMILLING SURFACE) = 0.10 GAL/SY
PERM. AGGREGATE EDGE TREATMENT = 0.044 TON/SY/IN OR 1.6 TONS/CY
GRAVEL, CRUSH STONE AND CHAT = 1.40 TONS / CY OF LOOSE AGG.

STATE OF MISSOURI
DALTON Z. HANDLING
NUMBER PE-2026013017
PROFESSIONAL ENGINEER
09/28/2026 4:03:31 PM
DALTON Z. HANDLING - CIVIL
MO-PE-2026013017

DATE PREPARED: 9/24/2026

ROUTE	STATE
VAR	MO
DISTRICT	SHEET NO.
NE	2

COUNTY: KNOX/SHELBY
JOB NO.: JST0182
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)

RTE W - SHELBY
TYPICAL SECTION
SHEET 5 OF 5
NOT TO SCALE

1" BITUMINOUS PAVEMENT MIXTURE PG58-28H (SURFACE LEVELING)

LOG MILE	LOG MILE	LENGTH (FT)	THICKNESS (IN)	WIDTH (FT)	AREA (SQ YD)	1" SURFACE LEVELING @ 1.948 TONS/CY (TONS)	TACK COAT 0.08 GAL/ SQ. YD. (GAL)	TACK COAT 0.10 GAL/ SQ. YD. (GAL)	REMARKS
0.009	0.018	50.00	1.00	22	122	6.6	-	12.2	BEG PROJECT
0.018	9.093	47916.00	1.00	22	117128	6337.9	9370.2	-	-
9.093	9.102	50.00	1.00	22	122	6.6	-	12.2	END PROJECT
BEG	END	-	-	-	-	-	-	-	-
0.009	9.102	48011.04	-	-	-	577.3	-	-	SAFETY EDGE/EDGE TREATMENT - LEFT AND RIGHT
0.009	9.102	48011.04	-	-	-	2727.9	-	-	ADDTL. 300 TONS/MILE FOR SURFACE IRREGULARITIES
SUBTOTAL						9,656.3	9,370.2	24.4	
TOTAL						9,656.3	9,395		

PERMANENT AGGREGATE EDGE TREATMENT

LOG MILE	LOG MILE	LENGTH (FT)	AGGREGATE SHOULDER WIDTH (FT)	AREA (SY)	AVG DEPTH (IN)	TYPE 1 AGGR. 0.044 TONS/SY/IN (TONS)	REMARKS
0.009	9.102	48011.04	2	10669.1	1.00	234.7	LEFT
0.009	9.102	48011.04	2	10669.1	1.00	234.7	RIGHT
					TOTAL	469.4	

AGGREGATE ENTRANCES

LOG MILE	LOG MILE	NUMBER OF ENTRANCES	AVERAGE TONS PER ENTRANCE	GRAVEL A, CRUSHED STONE B 0.039 TON/SY/INCH TONS	REMARKS
0.009	9.102	8	1.0	8.0	MAILBOX TURNOUTS
0.009	9.102	56	2.0	112.0	PRIVATE AND FIELD ENTRANCES
0.009	9.102	13	4.0	52.0	COUNTY ROADS, CITY STREETS, COMMERCIAL ENTRANCES
			TOTAL	172.0	

PAVEMENT MARKINGS

			CLASS 1 PAVEMENT MARKING PAINT (18-MIL, TYPE P BEADS)			
LOG MILE	LOG MILE	LOCATION	4" YELLOW INTERMITTENT CENTERLINE (LF)	4" YELLOW SOLID/INTERMITTENT CENTERLINE (LF)	4" YELLOW DOUBLE SOLID CENTERLINE (LF)	REMARKS
0.009	0.069	RTE B	-	-	634	DOUBLE SOLID
0.069	0.187	RTE B	-	779	-	SBL INTERMITTENT & NBL SOLID
0.187	0.456	RTE B	360	-	-	INTERMITTENT
0.456	0.561	RTE B	-	693	-	SBL SOLID & NBL INTERMITTENT
0.561	0.634	RTE B	100	-	-	INTERMITTENT
0.634	0.733	RTE B	-	653	-	SBL INTERMITTENT & NBL SOLID
0.733	1.222	RTE B	650	-	-	INTERMITTENT
1.222	1.382	RTE B	-	1056	-	SBL SOLID & NBL INTERMITTENT
1.382	1.685	RTE B	-	-	3200	DOUBLE SOLID
1.685	1.862	RTE B	-	1168	-	SBL INTERMITTENT & NBL SOLID
1.862	1.871	RTE B	20	-	-	INTERMITTENT
1.871	2.034	RTE B	-	1076	-	SBL SOLID & NBL INTERMITTENT
2.034	2.853	RTE B	-	-	8649	DOUBLE SOLID
2.853	3.019	RTE B	-	1096	-	SBL INTERMITTENT & NBL SOLID
3.019	3.035	RTE B	30	-	-	INTERMITTENT
3.035	3.188	RTE B	-	1010	-	SBL SOLID & NBL INTERMITTENT
3.188	3.343	RTE B	-	-	1637	DOUBLE SOLID
3.343	3.530	RTE B	-	1234	-	SBL INTERMITTENT & NBL SOLID
3.530	4.185	RTE B	870	-	-	INTERMITTENT
4.185	4.366	RTE B	-	1195	-	SBL SOLID & NBL INTERMITTENT
4.366	4.526	RTE B	-	-	1690	DOUBLE SOLID
4.526	4.706	RTE B	-	1188	-	SBL INTERMITTENT & NBL SOLID
4.706	4.735	RTE B	-	-	306	DOUBLE SOLID
4.735	4.862	RTE B	-	838	-	SBL SOLID & NBL INTERMITTENT
4.862	5.290	RTE B	-	-	4520	DOUBLE SOLID
5.290	5.464	RTE B	-	1148	-	SBL INTERMITTENT & NBL SOLID
5.464	5.593	RTE B	180	-	-	INTERMITTENT
5.593	5.786	RTE B	-	1274	-	SBL SOLID & NBL INTERMITTENT
5.786	5.803	RTE B	-	-	180	DOUBLE SOLID
5.803	5.991	RTE B	-	1241	-	SBL INTERMITTENT & NBL SOLID
5.991	6.945	RTE B	1,260	-	-	INTERMITTENT
6.945	7.061	RTE B	-	766	-	SBL SOLID & NBL INTERMITTENT
7.061	7.088	RTE B	40	-	-	INTERMITTENT
7.088	7.224	RTE B	-	898	-	SBL INTERMITTENT & NBL SOLID
7.224	7.233	RTE B	-	-	95	DOUBLE SOLID
7.233	7.324	RTE B	-	601	-	SBL SOLID & NBL INTERMITTENT
7.324	7.442	RTE B	160	-	-	INTERMITTENT
7.442	7.534	RTE B	-	607	-	SBL SOLID & NBL INTERMITTENT
7.534	7.589	RTE B	80	-	-	INTERMITTENT
7.589	7.726	RTE B	-	904	-	SBL INTERMITTENT & NBL SOLID
7.726	8.289	RTE B	750	-	-	INTERMITTENT
8.289	8.408	RTE B	-	785	-	SBL SOLID & NBL INTERMITTENT
8.408	8.447	RTE B	60	-	-	INTERMITTENT
8.447	8.594	RTE B	-	970	-	SBL INTERMITTENT & NBL SOLID
8.594	8.604	RTE B	-	-	106	DOUBLE SOLID
8.604	8.771	RTE B	-	1102	-	SBL SOLID & NBL INTERMITTENT
8.771	8.800	RTE B	40	-	-	INTERMITTENT
8.800	8.979	RTE B	-	1181	-	SBL INTERMITTENT & NBL SOLID
8.979	9.102	RTE B	170	-	-	INTERMITTENT
SUBTOTAL			4,770	23,463	21,017	
TOTAL				49,250		

LOG MILES ARE APPROXIMATE - MATCH EXISTING STRIPING

MODIFIED COLDMILLING (DEPTH TRANSITIONS)

LOG MILE	LOG MILE	LENGTH (FT)	THICKNESS (IN)	WIDTH (FT)	MODIFIED COLDMILLING (SY)	REMARKS
0.009	0.018	50.00	1.00	22	122	BEG PROJECT
9.093	9.102	50.00	1.00	22	122	END PROJECT
				TOTAL	244	

STATE OF MISSOURI
DALTON Z HANDLING
NUMBER PE-2026013017
PROFESSIONAL ENGINEER
09/28/2026 4:04:16 PM
DALTON Z. HANDLING - CIVIL
MO-PE-2026013017

DATE PREPARED: 9/24/2026

ROUTE	STATE
VAR	MO
DISTRICT	SHEET NO.
NE	3

COUNTY: KNOX/SHELBY
JOB NO.: JST0182
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)

RTE B - KNOX/SHELBY
QUANTITY SHEET
SHEET 1 OF 8

1" BITUMINOUS PAVEMENT MIXTURE PG58-28H (SURFACE LEVELING)

LOG MILE	LOG MILE	LENGTH (FT)	THICKNESS (IN)	WIDTH (FT)	AREA (SQ YD)	1" SURFACE LEVELING @ 1.948 TONS/CY (TONS)	TACK COAT 0.08 GAL/ SQ. YD. (GAL)	TACK COAT 0.10 GAL/ SQ. YD. (GAL)	REMARKS
12.125	12.134	50.00	1.00	22	122	6.6		12.2	
12.134	12.620	2566.08	1.00	22	6273	339.4	501.8		
12.620	12.629	50.00	1.00	22	122	6.6		12.2	
12.629	12.662	-	-	-	-	-	-	-	BRIDGE B0183
12.662	12.671	50.00	1.00	22	122	6.6		12.2	
12.671	17.215	23992.32	1.00	22	58648	3173.5	4691.8		
17.215	17.224	50.00	1.00	22	122	6.6		12.2	
17.224	17.249	-	-	-	-	-	-	-	BRIDGE A6517
17.249	17.258	50.00	1.00	22	122	6.6		12.2	
17.258	20.246	15776.64	1.00	22	38565	2086.8	3085.2		
20.246	20.255	50.00	1.00	22	122	6.6		12.2	
BEG	END								
12.125	20.255	42926.40	-	-	-	516.2	-	-	SAFETY EDGE/EDGE TREATMENT - LEFT AND RIGHT
12.125	20.255	42926.40	-	-	-	2439.0	-	-	ADDTL. 300 TONS/MILE FOR SURFACE IRREGULARITIES
					SUBTOTAL	8,594.5	8,278.8	73.2	
					SUBTOTAL	1.5	-	3	PAVED ENTRANCES
					TOTAL	8,596	8,355		

STATE/COUNTY ROUTE JUNCTIONS AND PAVED ENTRANCES

LOG MILE	LOCATION	AREA (SY)	1" SURFACE LEVELING 1.948 TONS/CY (TONS)	TACK COAT 0.10 GAL/ SQ. YD. (GAL)	MODIFIED COLDMILLING (SY)	REMARKS
15.761	SB RTE E	28	1.5	3	28	CRD 150
		SUBTOTAL	1.5	3	28	

MODIFIED COLDMILLING (DEPTH TRANSITIONS)

LOG MILE	LOG MILE	LENGTH (FT)	THICKNESS (IN)	WIDTH (FT)	MODIFIED COLDMILLING (SY)	REMARKS
12.125	12.134	50.00	1.00	22	122	BEGINNING OF PROJECT
20.246	20.255	50.00	1.00	22	122	END OF PROJECT
12.620	12.629	50.00	1.00	22	122	BR. B1083
12.662	12.671	50.00	1.00	22	122	BR. B1083
17.215	17.224	50.00	1.00	22	122	BR. A6517
17.249	17.258	50.00	1.00	22	122	BR. A6517
				SUBTOTAL	732	
				SUBTOTAL	28	PAVED ENTRANCES
				TOTAL	760	

AGGREGATE ENTRANCES

LOG MILE	LOG MILE	NUMBER OF ENTRANCES	AVERAGE TONS PER ENTRANCE	GRAVEL A, CRUSHED STONE B 0.039 TON/SY/INCH TONS	REMARKS
12.125	20.255	16	1.0	16.0	MAILBOX TURNOUTS
12.125	20.255	53	2.0	106.0	PRIVATE AND FIELD ENTRANCES
12.125	20.255	13	4.0	52.0	COUNTY ROADS, CITY STREETS, COMMERCIAL ENTRANCES
			TOTAL	174.0	

PERMANENT AGGREGATE EDGE TREATMENT

LOG MILE	LOG MILE	LENGTH (FT)	AGGREGATE SHOULDER WIDTH (FT)	AREA (SY)	AVG DEPTH (IN)	TYPE 1 AGGR. 0.044 TONS/SY/IN (TONS)	REMARKS
12.125	12.629	2661.12	2	591.4	1.00	13.0	LEFT
12.125	12.629	2661.12	2	591.4	1.00	13.0	RIGHT
12.629	12.662	174.24	-	-	-	-	BR B0183 EXCEPTION
12.662	17.224	24087.36	2	5352.7	1.00	117.8	LEFT
12.662	17.224	24087.36	2	5352.7	1.00	117.8	RIGHT
17.224	17.249	132.00	-	-	-	-	BR A6517 EXCEPTION
17.249	20.255	15871.68	2	3527.0	1.00	77.6	LEFT
17.249	20.255	15871.68	2	3527.0	1.00	77.6	RIGHT
					TOTAL	416.8	

STATE OF MISSOURI
DALTON Z HANDLING
NUMBER PE-2026013017
PROFESSIONAL ENGINEER
09/28/2026 4:04:29 PM
DALTON Z. HANDLING - CIVIL
MO-PE-2026013017

DATE PREPARED: 9/24/2026
ROUTE: VAR | STATE: MO
DISTRICT: NE | SHEET NO.: 3
COUNTY: KNOX/SHELBY
JOB NO.: JST0182
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)

RTE E - KNOX/SHELBY
QUANTITY SHEET
SHEET 2 OF 8

PAVEMENT MARKINGS

			CLASS 1 PAVEMENT MARKING PAINT (18-MIL, TYPE P BEADS)				
LOG MILE	LOG MILE	LOCATION	4" YELLOW INTERMITTENT CENTERLINE (LF)	4" YELLOW SOLID/INTERMITTENT CENTERLINE (LF)	4" YELLOW DOUBLE SOLID CENTERLINE (LF)	4" WHITE SOLID EDGELINE (LF)	REMARKS
12.125	12.931	RTE E			8511		NBL AND SBL SOLID
12.931	13.105	RTE E		1148			SBL INTERMITTENT AND NBL SOLID
13.105	13.276	RTE E		1129			SBL SOLID AND NBL INTERMITTENT
13.276	13.594	RTE E			3358		NBL AND SBL SOLID
13.594	13.717	RTE E		812			SBL INTERMITTENT AND NBL SOLID
13.717	13.754	RTE E			391		NBL AND SBL SOLID
13.754	13.880	RTE E		832			SBL SOLID AND NBL INTERMITTENT
13.880	14.238	RTE E			3780		NBL AND SBL SOLID
14.238	14.404	RTE E		1096			SBL INTERMITTENT AND NBL SOLID
14.404	14.440	RTE E	50				INTERMITTENT
14.440	14.604	RTE E		1082			SBL SOLID AND NBL INTERMITTENT
14.604	14.710	RTE E			1119		NBL AND SBL SOLID
14.710	14.889	RTE E		1181			SBL INTERMITTENT AND NBL SOLID
14.889	14.930	RTE E	60				INTERMITTENT
14.930	15.084	RTE E		1016			SBL SOLID AND NBL INTERMITTENT
15.084	15.485	RTE E			4235		NBL AND SBL SOLID
15.485	15.647	RTE E		1069			SBL INTERMITTENT AND NBL SOLID
15.647	16.648	RTE E	1,330				INTERMITTENT
16.648	16.825	RTE E		1168			SBL SOLID AND NBL INTERMITTENT
16.825	16.851	RTE E			275		NBL AND SBL SOLID
16.851	16.949	RTE E		647			SBL INTERMITTENT AND NBL SOLID
16.949	17.002	RTE E			560		NBL AND SBL SOLID
17.002	17.017	RTE E		99			SBL SOLID AND NBL INTERMITTENT
17.017	17.094	RTE E	110				INTERMITTENT
17.094	17.200	RTE E		700			SBL INTERMITTENT AND NBL SOLID
17.200	17.250	RTE E			528		NBL AND SBL SOLID
17.250	17.378	RTE E		845			SBL SOLID AND NBL INTERMITTENT
17.378	17.944	RTE E			5977		NBL AND SBL SOLID
17.944	18.074	RTE E		858			SBL INTERMITTENT AND NBL SOLID
18.074	18.118	RTE E			465		NBL AND SBL SOLID
18.118	18.232	RTE E		752			SBL SOLID AND NBL INTERMITTENT
18.232	18.265	RTE E			348		NBL AND SBL SOLID
18.265	18.427	RTE E		1069			SBL INTERMITTENT AND NBL SOLID
18.427	18.475	RTE E			507		INTERMITTENT
18.745	18.880	RTE E		891			SBL SOLID AND NBL INTERMITTENT
18.880	18.905	RTE E	40				INTERMITTENT
18.905	19.045	RTE E		924			SBL INTERMITTENT AND NBL SOLID
19.045	19.169	RTE E		818			SBL SOLID AND NBL INTERMITTENT
19.169	19.199	RTE E	40				INTERMITTENT
19.199	19.335	RTE E		898			SBL INTERMITTENT AND NBL SOLID
19.335	20.031	RTE E	920				INTERMITTENT
20.031	20.201	RTE E		1122			SBL SOLID AND NBL INTERMITTENT
20.201	20.255	RTE E			570		NBL AND SBL SOLID
12.125	20.255	RTE E				85,853	EDGELINE
		SUBTOTAL	2,550	20,156	30,624	85,853	
		TOTAL		53,330		85,853	

LOG MILES ARE APPROXIMATE - MATCH EXISTING STRIPING

STATE OF MISSOURI
DALTON Z. HANDLING
NUMBER PE-2026013017
PROFESSIONAL ENGINEER
09/28/2026 4:05:02 PM
DALTON Z. HANDLING - CIVIL
MO-PE-2026013017

DATE PREPARED
9/24/2026

ROUTE	STATE
VAR	MO
DISTRICT	SHEET NO.
NE	3

COUNTY
KNOX/SHELBY

JOB NO.
JST0182

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)

RTE E - KNOX/SHELBY
QUANTITY SHEET
SHEET 3 OF 8

1" BITUMINOUS PAVEMENT MIXTURE PG58-28H (SURFACE LEVELING)

LOG MILE	LOG MILE	LENGTH (FT)	THICKNESS (IN)	WIDTH (FT)	AREA (SQ YD)	1" SURFACE LEVELING @ 1.948 TONS/CY (TONS)	TACK COAT 0.08 GAL/ SQ. YD. (GAL)	TACK COAT 0.10 GAL/ SQ. YD. (GAL)	REMARKS
0.008	0.017	50.00	1.00	21	117	6.3	-	11.7	BEG PROJECT: MODIFIED COLDMILL
0.017	4.228	22234.08	1.00	21	51880	2807.3	4150.4	-	
4.228	4.254	137.28	1.00	VAR	578	31.3	46.2	-	RTE V/SP V INTERSECTION
4.254	6.526	11996.16	1.00	23	30657	1658.9	2452.6	-	
6.526	6.535	50.00	1.00	23	128	6.9	-	12.8	MODIFIED COLDMILL
6.535	8.171	8638.08	1.00	-	-	-	-	-	DISCONNECT/RTE K EXCEPTION
8.171	8.180	50.00	1.00	21	117	6.3	-	11.7	MODIFIED COLDMILL
8.180	11.554	17814.72	1.00	21	41568	2249.3	3325.4	-	
11.554	11.563	50.00	1.00	21	117	6.3	-	11.7	MODIFIED COLDMILL
11.563	11.588	132.00	1.00	-	-	-	-	-	BR T0964 EXCEPTION
11.588	11.597	50.00	1.00	21	117	6.3	-	11.7	MODIFIED COLDMILL
11.597	12.888	6816.48	1.00	21	15905	860.6	1272.4	-	
12.888	12.897	50.00	1.00	21	117	6.3	-	11.7	MODIFIED COLDMILL
12.897	12.915	95.04	1.00	-	-	-	-	-	BR T0965 EXCEPTION
12.915	12.924	50.00	1.00	21	117	6.3	-	11.7	MODIFIED COLDMILL
12.924	15.402	13083.84	1.00	21	30529	1652.0	2442.3	-	
15.402	15.411	50.00	1.00	21	162	8.8	-	16.2	END PROJECT: MODIFIED COLDMILL
BEG	END								
0.008	15.411	72462.72	-	-	-	871.3	-	-	SAFETY EDGE/EDGE TREATMENT - LEFT AND RIGHT
0.008	15.411	72462.72	-	-	-	4117.2	-	-	ADDTL. 300 TONS/MILE FOR SURFACE IRREGULARITIES
					SUBTOTAL	14,301.4	13,689.3	99.2	
					SUBTOTAL	31.8	-	63	PAVED ENTRANCES
					TOTAL	14,333.2	13,852		

STATE/COUNTY ROUTE JUNCTIONS AND PAVED ENTRANCES

LOG MILE	LOCATION	AREA (SY)	1" SURFACE LEVELING 1.948 TONS/CY (TONS)	TACK COAT 0.10 GAL/ SQ. YD. (GAL)	MODIFIED COLDMILLING (SY)	REMARKS
3.626	RIGHT	4	0.2	1	4	PRIVATE ENTRANCE
12.168	RIGHT	261	14.1	27	261	RTE AA (STOP SIGN/35')
14.825	LEFT	304	16.4	31	304	RTE HH (STOP SIGN/37')
15.327	RIGHT	5	0.3	1	5	THOMAS ST.
15.327	LEFT	4	0.2	1	4	THOMAS ST.
15.375	LEFT	12	0.6	2	12	PRIVATE ENTRANCE
	SUBTOTAL		31.8	63	590	

MODIFIED COLDMILLING (DEPTH TRANSITIONS)

LOG MILE	LOG MILE	LENGTH (FT)	THICKNESS (IN)	WIDTH (FT)	MODIFIED COLDMILLING (SY)	REMARKS (1" : 50' TRANSITION)
0.008	0.017	50.00	1.00	21	117	BEG RTE V
6.526	6.535	50.00	1.00	23	128	DISCONNECT/RTE K
8.171	8.180	50.00	1.00	21	117	DISCONNECT/RTE K
11.554	11.563	50.00	1.00	21	117	NORTH-BR T0964
11.588	11.597	50.00	1.00	21	117	SOUTH-BR T0964
12.888	12.897	50.00	1.00	21	117	NORTH-BR T0965
12.915	12.924	50.00	1.00	21	117	SOUTH-BR T0965
15.402	15.411	50.00	1.00	VAR	162	END RTE V
				SUBTOTAL	992	
				SUBTOTAL	590	PAVED ENTRANCES
				TOTAL	1,582	

AGGREGATE ENTRANCES

LOG MILE	LOG MILE	NUMBER OF ENTRANCES	AVERAGE TONS PER ENTRANCE	GRAVEL A, CRUSHED STONE B 0.039 TON/SY/INCH TONS	REMARKS
0.008	15.411	29	1.0	29.0	MAILBOX TURNOUTS
0.008	15.411	86	2.0	172.0	PRIVATE AND FIELD ENTRANCES
0.008	15.411	22	4.0	88.0	COUNTY ROADS, CITY STREETS, COMMERCIAL ENTRANCES
			TOTAL	289.0	

STATE OF MISSOURI
DALTON Z. HANDLING
NUMBER PE-2026013017
PROFESSIONAL ENGINEER
09/28/2026 4:07:03 PM
DALTON Z. HANDLING - CIVIL
MO-PE-2026013017

DATE PREPARED
9/24/2026

ROUTE	STATE
VAR	MO
DISTRICT	SHEET NO.
NE	3

COUNTY
KNOX/SHELBY

JOB NO.
JST0182

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)

RTE V - KNOX
QUANTITY SHEET
SHEET 4 OF 8

PAVEMENT MARKINGS

LOG MILE	LOG MILE	LOCATION	CLASS 1 PAVEMENT MARKING PAINT (18-MIL, TYPE P BEADS) 4" YELLOW INTERMITTENT CENTERLINE (LF)	4" YELLOW SOLID/INTERMITTENT CENTERLINE (LF)	4" YELLOW DOUBLE SOLID CENTERLINE (LF)	REMARKS
0.008	0.935	RTE V	-	-	9789	DOUBLE SOLID
0.935	1.027	RTE V	-	607	-	SBL INTERMITTENT AND NBL SOLID
1.027	1.083	RTE V	-	-	591	DOUBLE SOLID
1.083	1.174	RTE V	-	601	-	SBL SOLID AND NBL INTERMITTENT
1.174	1.201	RTE V	40	-	-	INTERMITTENT
1.201	1.290	RTE V	-	587	-	SBL INTERMITTENT AND NBL SOLID
1.290	1.321	RTE V	-	-	327	DOUBLE SOLID
1.321	1.473	RTE V	-	1003	-	SBL SOLID AND NBL INTERMITTENT
1.473	3.902	RTE V	-	-	25650	DOUBLE SOLID
3.902	3.987	RTE V	-	561	-	SBL INTERMITTENT AND NBL SOLID
3.987	4.062	RTE V	-	-	792	DOUBLE SOLID
4.062	4.160	RTE V	-	647	-	SBL SOLID AND NBL INTERMITTENT
4.160	4.245	RTE V	-	-	898	DOUBLE SOLID: CONNECT TO SP V
4.245	4.253	RTE V	-	-	-	INTERSECTION
4.253	6.539	RTE V	-	-	24140	DOUBLE SOLID
6.539	8.171	RTE V	-	-	-	DISCONNECT/RTE K
8.171	8.511	RTE V	-	-	3590	DOUBLE SOLID
8.511	8.723	RTE V	280	-	-	INTERMITTENT
8.723	8.915	RTE V	-	1267	-	SBL SOLID AND NBL INTERMITTENT
8.915	9.354	RTE V	-	-	4636	DOUBLE SOLID
9.354	9.442	RTE V	-	581	-	SBL INTERMITTENT AND NBL SOLID
9.442	9.516	RTE V	-	-	781	DOUBLE SOLID
9.516	9.619	RTE V	-	680	-	SBL SOLID AND NBL INTERMITTENT
9.619	11.363	RTE V	-	-	18417	DOUBLE SOLID
11.363	11.427	RTE V	-	422	-	SBL INTERMITTENT AND NBL SOLID
11.427	11.605	RTE V	-	-	1880	DOUBLE SOLID
11.605	11.745	RTE V	-	924	-	SBL INTERMITTENT AND NBL SOLID
11.745	11.770	RTE V	40	-	-	INTERMITTENT
11.770	11.935	RTE V	-	1089	-	SBL SOLID AND NBL INTERMITTENT
11.935	12.426	RTE V	-	-	5185	DOUBLE SOLID
12.426	12.525	RTE V	-	653	-	SBL INTERMITTENT AND NBL SOLID
12.525	12.601	RTE V	-	-	803	DOUBLE SOLID
12.601	12.681	RTE V	-	528	-	SBL SOLID AND NBL INTERMITTENT
12.681	13.032	RTE V	-	-	3707	DOUBLE SOLID
13.032	13.128	RTE V	-	634	-	SBL SOLID AND NBL INTERMITTENT
13.128	13.560	RTE V	-	-	4562	DOUBLE SOLID
13.560	13.720	RTE V	-	1056	-	SBL INTERMITTENT AND NBL SOLID
13.720	13.915	RTE V	-	1287	-	SBL SOLID AND NBL INTERMITTENT
13.915	14.122	RTE V	-	-	2186	DOUBLE SOLID
14.122	14.212	RTE V	-	594	-	SBL INTERMITTENT AND NBL SOLID
14.212	14.295	RTE V	-	-	876	DOUBLE SOLID
14.295	14.391	RTE V	-	634	-	SBL SOLID AND NBL INTERMITTENT
14.391	14.444	RTE V	-	-	560	DOUBLE SOLID
14.444	14.615	RTE V	-	1129	-	SBL INTERMITTENT AND NBL SOLID
14.615	15.365	RTE V	990	-	-	INTERMITTENT
15.365	15.408	RTE V	-	-	454	DOUBLE SOLID
		SUBTOTAL	1,350	15,484	109,824	
		TOTAL		126,658		

LOG MILES ARE APPROXIMATE - MATCH EXISTING STRIPING

PERMANENT AGGREGATE EDGE TREATMENT

LOG MILE	LOG MILE	LENGTH (FT)	AGGREGATE SHOULDER WIDTH (FT)	AREA (SY)	AVG DEPTH (IN)	TYPE 1 AGGR. 0.044 TONS/SY/IN (TONS)	REMARKS
0.008	6.535	34462.56	2	7658.3	1.00	168.5	LEFT
0.008	6.535	34462.56	2	7658.3	1.00	168.5	RIGHT
6.535	8.171	8638.08	-	-	-	-	DISCONNECT/RTE K
8.171	11.563	17909.76	2	3979.9	1.00	87.6	LEFT
8.171	11.563	17909.76	2	3979.9	1.00	87.6	RIGHT
11.563	11.588	132.00	-	-	-	-	BR T0964 EXCEPTION
11.588	12.897	6911.52	2	1535.9	1.00	33.8	LEFT
11.588	12.897	6911.52	2	1535.9	1.00	33.8	RIGHT
12.897	12.915	95.04	-	-	-	-	BR T0965 EXCEPTION
12.915	15.411	13178.88	2	2928.6	1.00	64.4	LEFT
12.915	15.411	13178.88	2	2928.6	1.00	64.4	RIGHT
					TOTAL	708.6	

STATE OF MISSOURI
DALTON Z. HANDLING
NUMBER PE-2026013017
PROFESSIONAL ENGINEER
09/28/2026 4:07:45 PM
DALTON Z. HANDLING - CIVIL
MO-PE-2026013017

DATE PREPARED
9/24/2026

ROUTE VAR | STATE MO
DISTRICT NE | SHEET NO. 3
COUNTY KNOX/SHELBY
JOB NO. JST0182
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)

RTE V - KNOX
QUANTITY SHEET
SHEET 5 OF 8

PAVEMENT MARKINGS

CLASS 1 PAVEMENT MARKING PAINT (18-MIL, TYPE P BEADS)

LOG MILE	LOG MILE	LOCATION	4" YELLOW INTERMITTENT CENTERLINE (LF)	4" YELLOW SOLID/INTERMITTENT CENTERLINE (LF)	4" YELLOW DOUBLE SOLID CENTERLINE (LF)	REMARKS
0.000	0.219	SP V			2313	
0.219	0.360	SP V		931		SBL SOLID AND NBL INTERMITTENT
0.360	0.520	SP V			1690	
0.520	0.605	SP V		561		SBL INTERMITTENT AND NBL SOLID
0.605	0.640	SP V	50			
0.640	0.693	SP V		350		SBL SOLID AND NBL INTERMITTENT
		SUBTOTAL	50	1,842	4,003	
		TOTAL		5,895		

LOG MILES ARE APPROXIMATE - MATCH EXISTING STRIPING

1" BITUMINOUS PAVEMENT MIXTURE PG58-28H (SURFACE LEVELING)

LOG MILE	LOG MILE	LENGTH (FT)	THICKNESS (IN)	WIDTH (FT)	AREA (SQ YD)	1" SURFACE LEVELING @ 1.948 TONS/CY (TONS)	TACK COAT 0.08 GAL/ SQ. YD. (GAL)	REMARKS
0.000	0.693	3659.04	1.00	21	8538	462.0	683.0	
					TOTAL	462.0	683	

AGGREGATE ENTRANCES

LOG MILE	LOG MILE	NUMBER OF ENTRANCES	AVERAGE TONS PER ENTRANCE	GRAVEL A, CRUSHED STONE B 0.039 TON/SY/INCH TONS	REMARKS
0.000	0.693	3	2.0	6.0	PRIVATE AND FIELD ENTRANCES
0.000	-	-	-	6.0	BEG OF PROJECT (FIVE POINTS AVE - FAIRMONT ST)
			TOTAL	12.0	

PERMANENT AGGREGATE EDGE TREATMENT

LOG MILE	LOG MILE	LENGTH (FT)	AGGREGATE SHOULDER WIDTH (FT)	AREA (SY)	AVG. DEPTH (IN)	TYPE 1 AGGR. 0.044 TONS/SY/IN (TONS)	REMARKS
0.000	0.693	3659.04	2	813.1	1.00	17.9	LEFT
0.000	0.693	3659.04	2	813.1	1.00	17.9	RIGHT
					TOTAL	35.8	

STATE OF MISSOURI
DALTON Z. HANDLING
NUMBER PE-2026013017
PROFESSIONAL ENGINEER
09/28/2026 4:08:17 PM
DALTON Z. HANDLING - CIVIL
MO-PE-2026013017

DATE PREPARED: 9/24/2026
ROUTE: VAR
STATE: MO
DISTRICT: NE
SHEET NO.: 3
COUNTY: KNOX/SHELBY
JOB NO.: JST0182
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)

SP V - KNOX
QUANTITY SHEET
SHEET 6 OF 8

1" BITUMINOUS PAVEMENT MIXTURE PG58-28H (SURFACE LEVELING)

LOG MILE	LOG MILE	LENGTH (FT)	THICKNESS (IN)	WIDTH (FT)	AREA (SQ YD)	1" SURFACE LEVELING @ 1.948 TONS/CY (TONS)	TACK COAT 0.08 GAL/ SQ. YD. (GAL)	TACK COAT 0.10 GAL/ SQ. YD. (GAL)	REMARKS
4.104	4.113	50.0	1.00	21	117	6.3	-	11.7	BEGIN PROJECT: MODIFIED COLDMILLING
4.113	4.871	4002.2	1.00	21	9338	505.3	747.0	-	
4.871	4.880	50.0	1.00	21	117	6.3	-	11.7	MODIFIED COLDMILLING
4.880	4.908	147.8	-	-	-	-	-	-	EXCEPTION BR P0040
4.908	4.917	50.0	1.00	21	117	6.3	-	11.7	MODIFIED COLDMILLING
4.917	8.226	17471.5	1.00	21	40767	2205.9	3261.4	-	
8.226	8.235	50.0	1.00	21	117	6.3	-	11.7	MODIFIED COLDMILLING
8.235	8.290	290.4	-	-	-	-	-	-	EXCEPTION BR R0599
8.290	8.299	50.0	1.00	21	117	6.3	-	11.7	MODIFIED COLDMILLING
8.299	10.971	14108.2	1.00	21	32919	1781.3	2633.5	-	
10.971	10.983	63.4	1.00	VARIES	400	21.6	-	40.0	END PROJECT: MODIFIED COLDMILLING
BEG	END								
4.104	10.983	36321.1	-	-	-	436.8	-	-	SAFETY EDGE/EDGE TREATMENT - LEFT AND RIGHT
4.104	10.983	36321.1	-	-	-	2063.7	-	-	ADDTL. 300 TONS/MILE FOR SURFACE IRREGULARITIES
					SUBTOTAL	7,046.1	6,641.9	98.5	
					SUBTOTAL	28.0	-	50.0	PAVED ENTRANCES
					TOTAL	7,075	6,790		

PERMANENT AGGREGATE EDGE TREATMENT

LOG MILE	LOG MILE	LENGTH (FT)	AGGREGATE SHOULDER WIDTH (FT)	AREA (SY)	AVG DEPTH (IN)	TYPE 1 AGGR. 0.044 TONS/SY/IN (TONS)	REMARKS
4.104	4.184	422.40	2	93.9	1.00	2.1	RIGHT
4.184	4.211	142.56	-	-	-	-	EXCEPTION RTE J - RIGHT
4.211	4.880	3532.32	2	785.0	1.00	17.3	RIGHT
4.880	4.908	147.84	-	-	-	-	EXCEPTION BR P0040
4.908	8.235	17566.56	2	3903.7	1.00	85.9	RIGHT
8.235	8.290	290.40	-	-	-	-	EXCEPTION BR R0599
8.290	10.983	14219.04	2	3159.8	1.00	69.5	RIGHT
4.104	4.880	4097.28	2	910.5	1.00	20.0	LEFT
4.880	4.908	147.84	-	-	-	-	EXCEPTION BR P0040
4.908	8.235	17566.56	2	3903.7	1.00	85.9	LEFT
8.235	8.290	290.40	-	-	-	-	EXCEPTION BR R0599
8.290	10.983	14219.04	2	3159.8	1.00	69.5	LEFT
					TOTAL	351	

MODIFIED COLDMILLING (DEPTH TRANSITIONS)

LOG MILE	LOG MILE	LENGTH (FT)	THICKNESS (IN)	WIDTH (FT)	MODIFIED COLDMILLING (SY)	REMARKS
4.104	4.113	50.00	1.00	21	117	BEGIN PROJECT
4.871	4.880	50.00	1.00	21	117	BR P0040
4.908	4.917	50.00	1.00	21	117	BR P0040
8.226	8.235	50.00	1.00	21	117	BR R0599
8.290	8.299	50.00	1.00	21	117	BR R0599
10.971	10.983	63.36	1.00	VAR.	400	END PROJECT
				SUBTOTAL	985	
				SUBTOTAL	500	PAVED ENTRANCES
				TOTAL	1,485	

AGGREGATE ENTRANCES

LOG MILE	LOG MILE	NUMBER OF ENTRANCES	AVERAGE TONS PER ENTRANCE	GRAVEL A, CRUSHED STONE B 0.039 TON/SY/INCH TONS	REMARKS
4.104	10.983	38	2.0	76.0	PRIVATE AND FIELD ENTRANCES
4.104	10.983	12	4.0	48.0	COUNTY ROADS, CITY STREETS, COMMERCIAL ENTRANCES
			TOTAL	124	

STATE/COUNTY ROUTE JUNCTIONS AND PAVED ENTRANCES

LOG MILE	LOCATION	AREA (SY)	1" SURFACE LEVELING 1.948 TONS/CY (TONS)	TACK COAT 0.10 GAL/ SQ. YD. (GAL)	MODIFIED COLDMILLING (SY)	REMARKS
4.197	RT	500	27.1	50	500	JUNCTION W/ RTE J
		SUBTOTAL	28	50	500	

PAVEMENT MARKINGS

			CLASS 1 PAVEMENT MARKING PAINT (18-MIL, TYPE P BEADS)			
LOG MILE	LOG MILE	LOCATION	4" YELLOW INTERMITTENT CENTERLINE (LF)	4" YELLOW SOLID/INTERMITTENT CENTERLINE (LF)	4" YELLOW DOUBLE SOLID CENTERLINE (LF)	REMARKS
4.104	4.521	RTE W			4404	
4.521	4.685	RTE W		1082		SBL INTERMITTENT AND NBL SOLID
4.685	4.752	RTE W	90			
4.752	4.978	RTE W		1492		SBL SOLID AND NBL INTERMITTENT
4.978	7.179	RTE W			23243	
7.179	7.305	RTE W		832		SBL INTERMITTENT AND NBL SOLID
7.305	7.354	RTE W			517	
7.354	7.469	RTE W		759		SBL SOLID AND NBL INTERMITTENT
7.469	7.628	RTE W		1049		SBL INTERMITTENT AND NBL SOLID
7.628	7.799	RTE W		1129		SBL SOLID AND NBL INTERMITTENT
7.799	7.828	RTE W			306	
7.828	8.007	RTE W		1181		SBL INTERMITTENT AND NBL SOLID
8.007	8.755	RTE W	990			
8.755	8.921	RTE W		1096		SBL SOLID AND NBL INTERMITTENT
8.921	9.417	RTE W			5238	
9.417	9.582	RTE W		1089		SBL INTERMITTENT AND NBL SOLID
9.582	9.672	RTE W	120			
9.672	9.829	RTE W		1036		SBL SOLID AND NBL INTERMITTENT
9.829	9.896	RTE W			708	
9.896	10.064	RTE W		1109		SBL INTERMITTENT AND NBL SOLID
10.064	10.224	RTE W		1056		SBL SOLID AND NBL INTERMITTENT
10.224	10.983	RTE W			8015	
		SUBTOTAL	1,200	12,910	42,431	
		TOTAL		56,541		

LOG MILES ARE APPROXIMATE - MATCH EXISTING STRIPING

STATE OF MISSOURI
DALTON Z. HANDLING
NUMBER PE-2026013017
PROFESSIONAL ENGINEER
09/28/2026 4:08:49 PM
DALTON Z. HANDLING - CIVIL
MO-PE-2026013017

DATE PREPARED
9/24/2026

ROUTE	STATE
VAR	MO
DISTRICT	SHEET NO.
NE	3

COUNTY
KNOX/SHELBY

JOB NO.
JST0182

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)

RTE W - SHELBY
QUANTITY SHEET
SHEET 7 OF 8

BITUMINOUS PAVEMENT MIXTURE PG58-28H (SURFACE LEVELING)	
RTE	1" SURFACE LEVELING @ 1.948 TONS/CY (TONS)
RTE B	9,656.3
RTE E	8,596.0
RTE V	14,333.2
SP V	462.0
RTE W	7,075.0
TOTAL	40,122.5

TOTAL TACK COAT	
RTE	TACK COAT (GAL)
RTE B	9,395
RTE E	8,355
RTE V	13,852
SP V	683
RTE W	6,790
TOTAL	39,075

MODIFIED COLDMILLING (DEPTH TRANSITIONS)	
RTE	MODIFIED COLDMILLING (SY)
RTE B	244.0
RTE E	760.0
RTE V	1,582.0
SP V	-
RTE W	1,485.0
TOTAL	4,071.0

CLASS 1 PAVEMENT MARKING PAINT (18-MIL, TYPE P BEADS)		
RTE	4" YELLOW (LF)	4" WHITE (LF)
RTE B	49,250	-
RTE E	53,330	85,853
RTE V	126,658	-
SP V	5,895	-
RTE W	56,541	-
TOTAL	291,674	85,853

AGGREGATE ENTRANCES	
RTE	GRAVEL A, CRUSHED STONE B @ 0.039 TON/SY/INCH (TONS)
RTE B	172
RTE E	174
RTE V	289
SP V	12
RTE W	124
TOTAL	771

PERMANENT AGGREGATE EDGE TREATMENT	
RTE	TYPE 1 AGGR. 0.044 TONS/SY/IN (TONS)
RTE B	469.4
RTE E	416.8
RTE V	708.6
SP V	35.8
RTE W	351.0
TOTAL	1,982

CONSTRUCTION SIGNS

SIGN NO.	SIGN	SIZE INCHES	AREA (SQ.FT.)	QUANTITY	TOTAL AREA (SQ.FT.)	DESCRIPTION
1	G020-1	60 X 24	10.00	2	20.00	ROAD WORK NEXT 16 MILES
2	W020-1	48 X 48	16.00	4	64.00	ROAD WORK AHEAD
7	W020-4	48 X 48	16.00	6	96.00	ONE LANE ROAD AHEAD
8	W020-7a	48 X 48	16.00	4	64.00	FLAGGER (SYMBOL)
26	G020-2	48 X 24	8.00	2	16.00	END ROAD WORK
35	W08-12	48 X 48	16.00	16	256.00	NO CENTER LINE
53	G020-4	36 X 18	4.50	3	13.50	PILOT CAR FOLLOW ME
36	W08-11	48 X 48	16.00	32	512.00	UNEVEN LANES
59	CONST-8	48 X 36	12.00	2	24.00	WORK ZONE NO PHONE ZONE
	G022-1	21 X 15	2.19	4	8.76	WET PAINT (ARROW PIVOTS)
SIDE ROAD PACKAGE - NON-STATE ROUTE - 14 TOTAL						
2	W020-1	48 X 48	16.00	14	224.00	ROAD WORK AHEAD
7	WO20-4	48 X 48	16.00	14	224.00	ONE LANE ROAD AHEAD
8	W020-7a	48 X 48	16.00	14	224.00	FLAGGER (SYMBOL)
58	G020-4a	18 X 12	1.50	14	21.00	PILOT CAR IN USE WAIT & FOLLOW
SIDE ROAD PACKAGE - STATE ROUTE - 8 TOTAL						
2	W020-1	48 X 48	16.00	8	128.00	ROAD WORK AHEAD
7	WO20-4	48 X 48	16.00	8	128.00	ONE LANE ROAD AHEAD
8	W020-7a	48 X 48	16.00	8	128.00	FLAGGER (SYMBOL)
58	G020-4a	42 X 30	8.75	8	70.00	PILOT CAR IN USE WAIT & FOLLOW
COMMERCIAL AND PRIVATE ENTRANCES						
60	G020-4A	24X18	3.00	25	*	PILOT CAR IN USE WAIT & FOLLOW *INCIDENTAL TO TRAFFIC CONTROL ITEMS
			CONSTRUCTION SIGNS TOTAL		2222	FOR INFORMATIONAL PURPOSES ONLY
			CHANNELIZERS		100	FOR INFORMATIONAL PURPOSES ONLY

NOTES:

ALL TEMPORARY TRAFFIC CONTROL ITEMS ARE INCLUDED IN PAY ITEM 616-99.01, MISC. LUMP SUM TEMPORARY TRAFFIC CONTROL UNLESS OTHERWISE NOTED.

MOBILE OPERATION TMA'S ARE CONSIDERED INCIDENTAL TO CONSTRUCTION.

QUANTITIES SHOWN ARE AN ESTIMATE ONLY AND ARE SUBJECT TO CHANGE BASED ON FIELD CONDITIONS.

REFER TO STD. PLAN 616.20 FOR TEMPORARY TRAFFIC CONTROL PLANS.
REFER TO STD. PLAN 616.10 FOR SIGN AND SIGN MOUNTING REQUIREMENTS.

LUMP SUM TEMPORARY TRAFFIC CONTROL		
ITEM NO.	UNIT	DESCRIPTION
616-99.01	1 LUMP SUM	MISC. LUMP SUM TEMPORARY TRAFFIC CONTROL

MOBILIZATION
1 LUMP SUM

ESTIMATE FACTORS
PROVIDED FOR INFORMATION PURPOSES ONLY
BITUMINOUS PAVEMENT MIXTURE PG 58-28H (BP-1) = 1.948 TON/CY
TACK COAT (EXISTING SURFACE) = 0.08 GAL/SY
TACK COAT (COLDMILLING SURFACE) = 0.10 GAL/SY
PERM. AGGREGATE EDGE TREATMENT = 0.044 TON/SY/IN OR 1.6 TONS/CY
GRAVEL, CRUSH STONE AND CHAT = 1.40 TONS / CY OF LOOSE AGG.

STATE OF MISSOURI
DALTON Z. HANDLING
NUMBER PE-2026013017
PROFESSIONAL ENGINEER
09/28/2026 4:09:19 PM
DALTON Z. HANDLING - CIVIL
MO-PE-2026013017

DATE PREPARED
9/24/2026

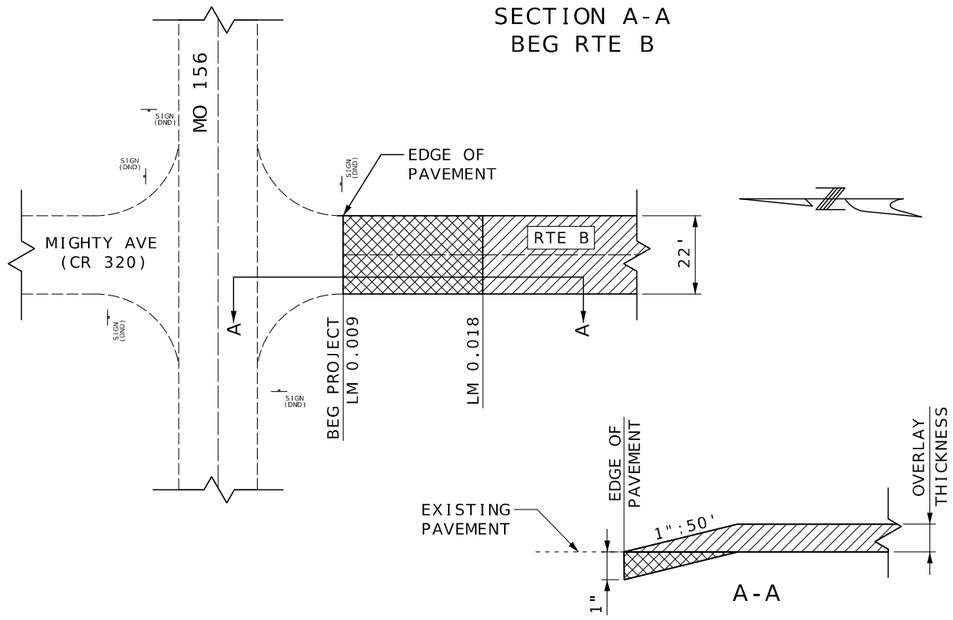
ROUTE VAR | STATE MO
DISTRICT NE | SHEET NO. 3
COUNTY KNOX/SHELBY
JOB NO. JST0182
CONTRACT ID.
PROJECT NO.
BRIDGE NO.

DESCRIPTION	DATE

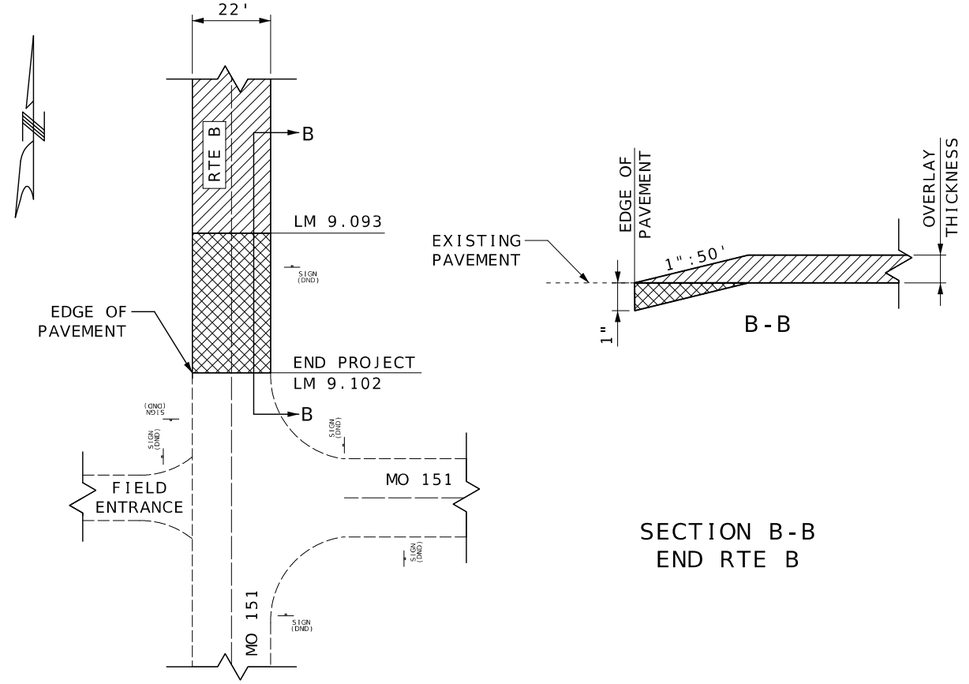
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

B,E,V,SP V,W
KNOX/SHELBY
QUANTITY SHEET
SHEET 8 OF 8

SECTION A-A
BEG RTE B



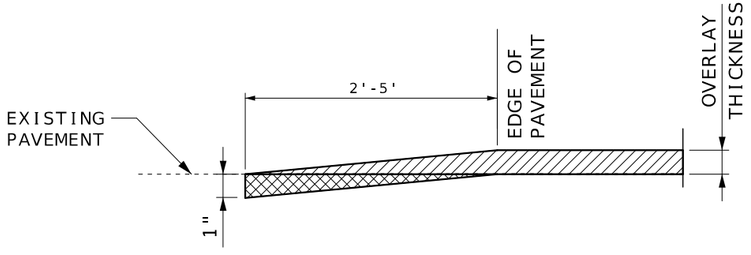
SECTION B-B
END RTE B

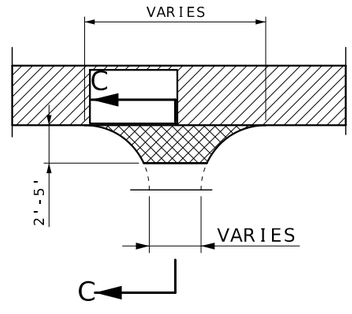


LEGEND

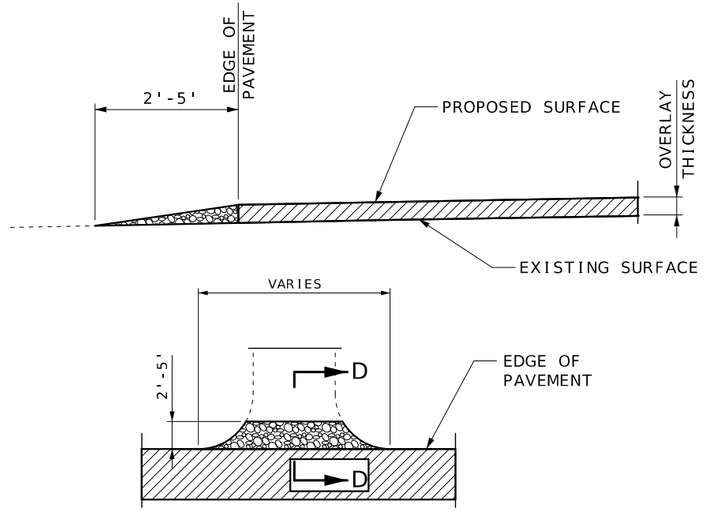
- MODIFIED COLDMILLING
- OVERLAY
- GRAVEL OR CRUSHED STONE
- SIGN (DND) — EXIST. SIGN (DO NOT DISTURB)

SECTION C-C
TYPICAL ASPHALT/CONCRETE ENTRANCE OR SIDE ROAD (STATE ROUTES, COUNTY ROADS, CITY STREETS AND PRIVATE OR COMMERCIAL ENTRANCES)





SECTION D-D
TYPICAL PAVED AGGREGATE ENTRANCE



STATE OF MISSOURI
DALTON Z. HANDLING
NUMBER PE-2026013017
PROFESSIONAL ENGINEER
09/28/2026 4:09:49 PM
DALTON Z. HANDLING - CIVIL
MO-PE-2026013017

DATE PREPARED: 9/24/2026

ROUTE	STATE
VAR	MO
DISTRICT	SHEET NO.
NE	4

COUNTY: KNOX/SHELBY
JOB NO.: JST0182
CONTRACT ID.:
PROJECT NO.:
BRIDGE NO.:

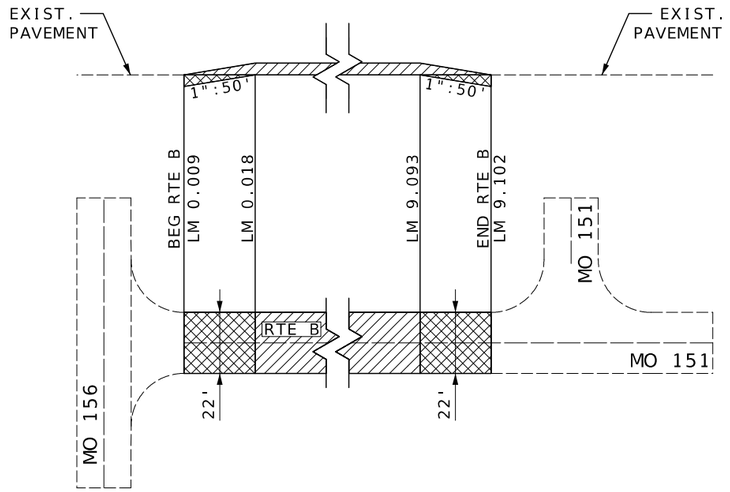
DESCRIPTION | DATE

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

RTE B - KNOX/SHELBY
QUANTITIES SHEET
SHEET 1 OF 7
NOT TO SCALE

BEGIN RTE B LM 0.009

END RTE B LM 9.102



LEGEND

MODIFIED COLDMILLING

OVERLAY

LONGITUDINAL DEPTH TRANSITION

STATE OF MISSOURI
DALTON Z. HANDLING
NUMBER PE-2026013017
PROFESSIONAL ENGINEER
09/28/2026 4:10:18 PM
DALTON Z. HANDLING - CIVIL
MO-PE-2026013017

DATE PREPARED
9/24/2026

ROUTE	STATE
VAR	MO
DISTRICT	SHEET NO.
NE	5

COUNTY
KNOX/SHELBY

JOB NO.
JST0182

CONTRACT ID.

PROJECT NO.

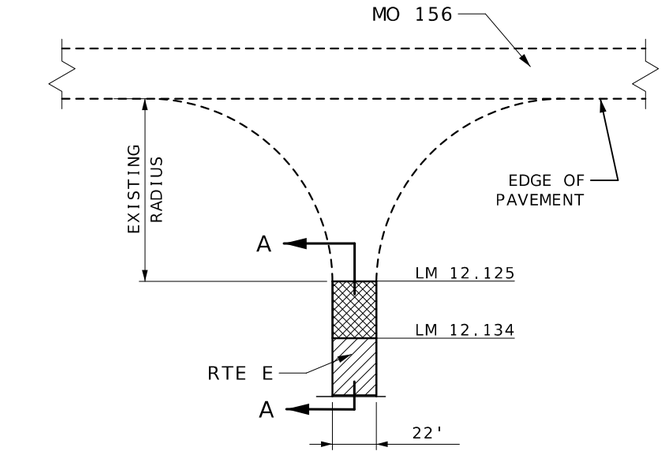
BRIDGE NO.

DESCRIPTION	DATE

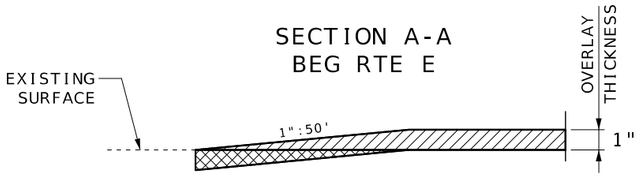
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

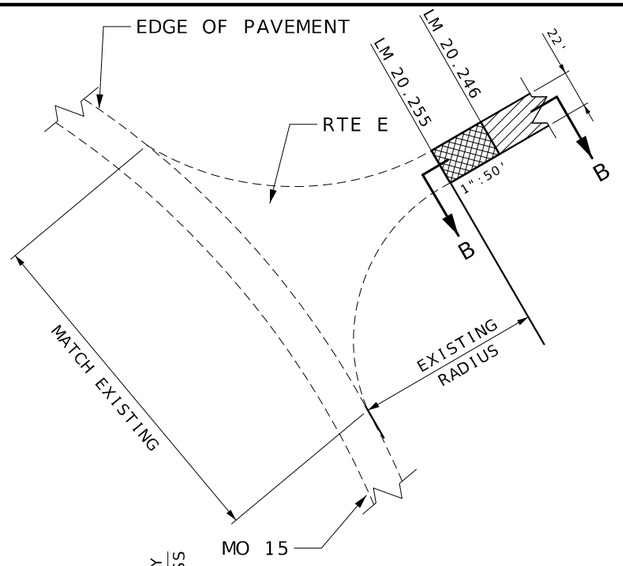
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

RTE B - KNOX/SHELBY
SPECIAL SHEET
SHEET 2 OF 7
NOT TO SCALE

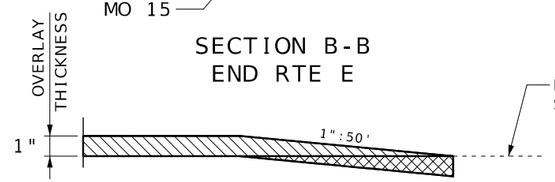


SECTION A-A
BEG RTE E





SECTION B-B
END RTE E



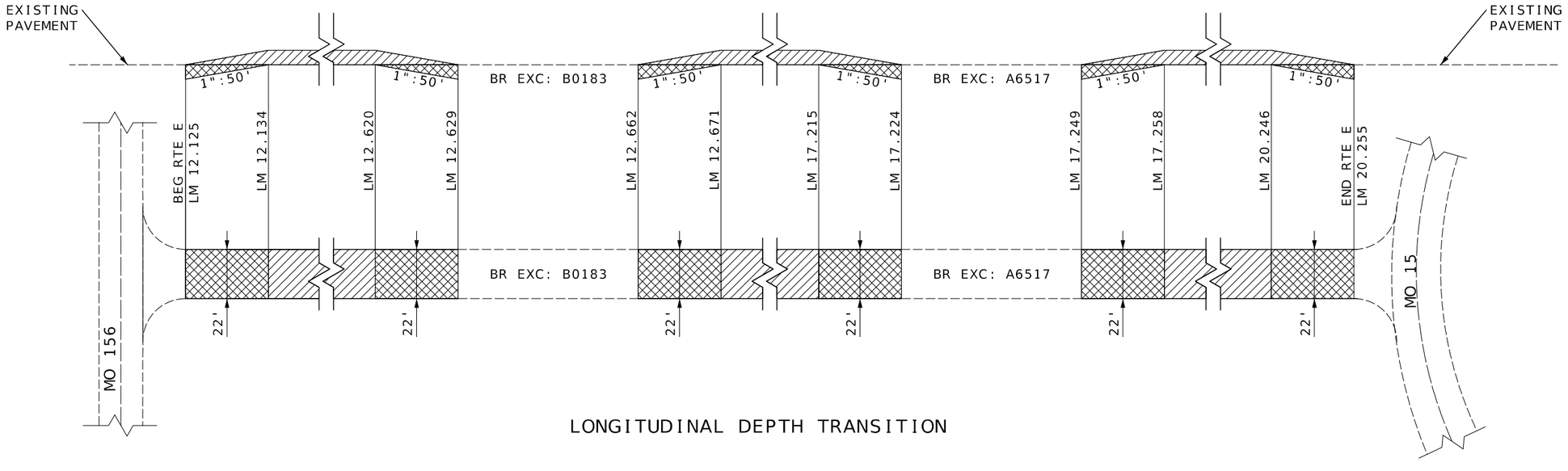
LEGEND

MODIFIED COLDMILLING

OVERLAY

BEGIN RTE E L.M. 12.125

END RTE E L.M. 20.255



LONGITUDINAL DEPTH TRANSITION

STATE OF MISSOURI
DALTON Z. HANDLING
NUMBER PE-2026013017
PROFESSIONAL ENGINEER
09/28/2026 4:10:45 PM
DALTON Z. HANDLING - CIVIL
MO-PE-2026013017

DATE PREPARED
9/24/2026

ROUTE	STATE
VAR	MO
DISTRICT	SHEET NO.
NE	6

COUNTY
KNOX/SHELBY

JOB NO.
JST0182

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

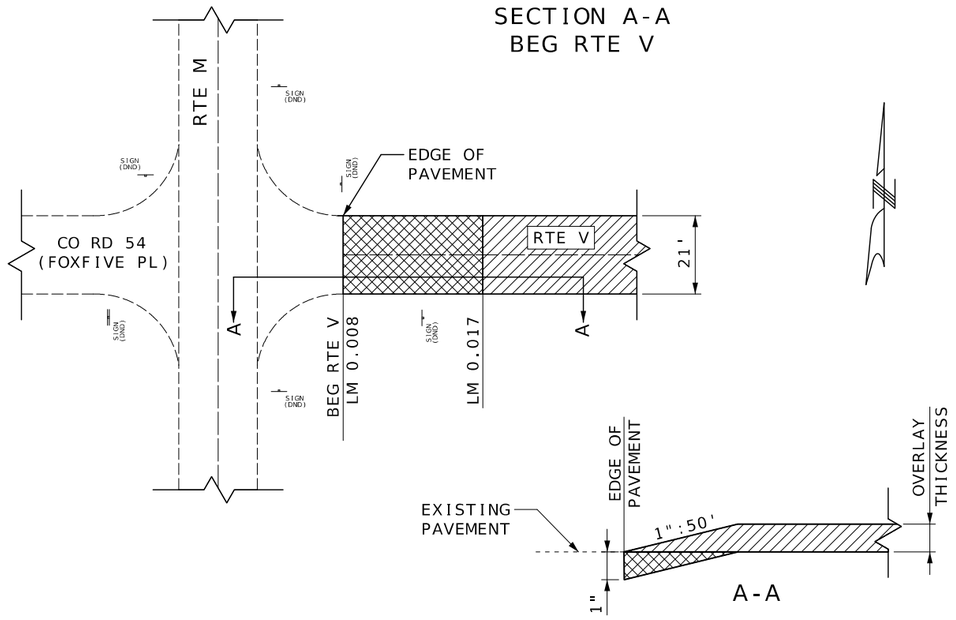
DESCRIPTION	DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

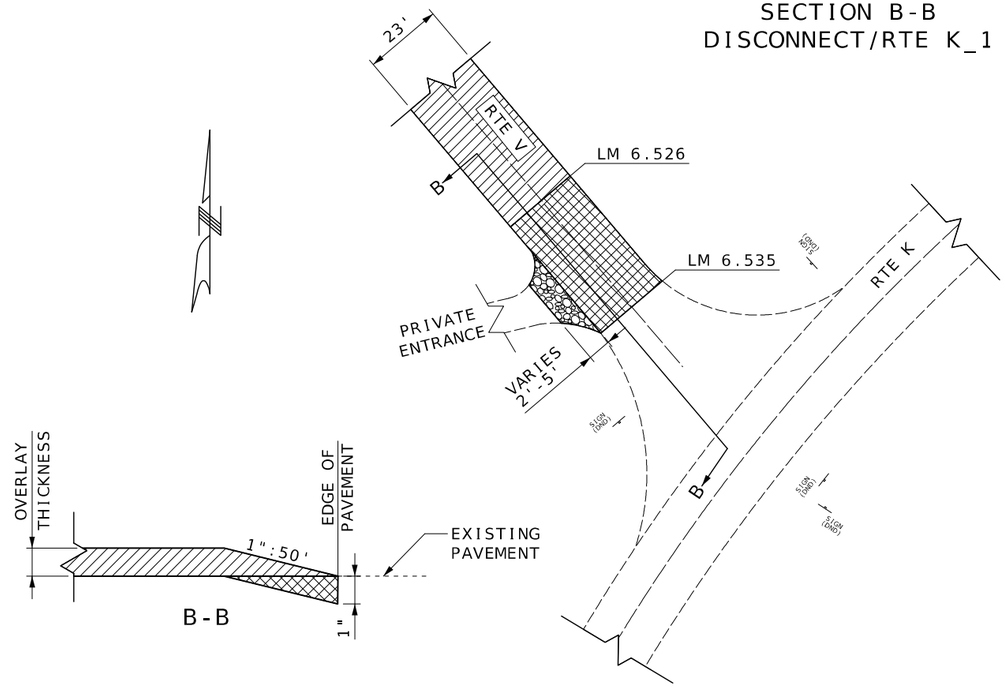
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

RTE E - KNOX/SHELBY
SPECIAL SHEET
SHEET 3 OF 7
NOT TO SCALE

SECTION A-A
BEG RTE V



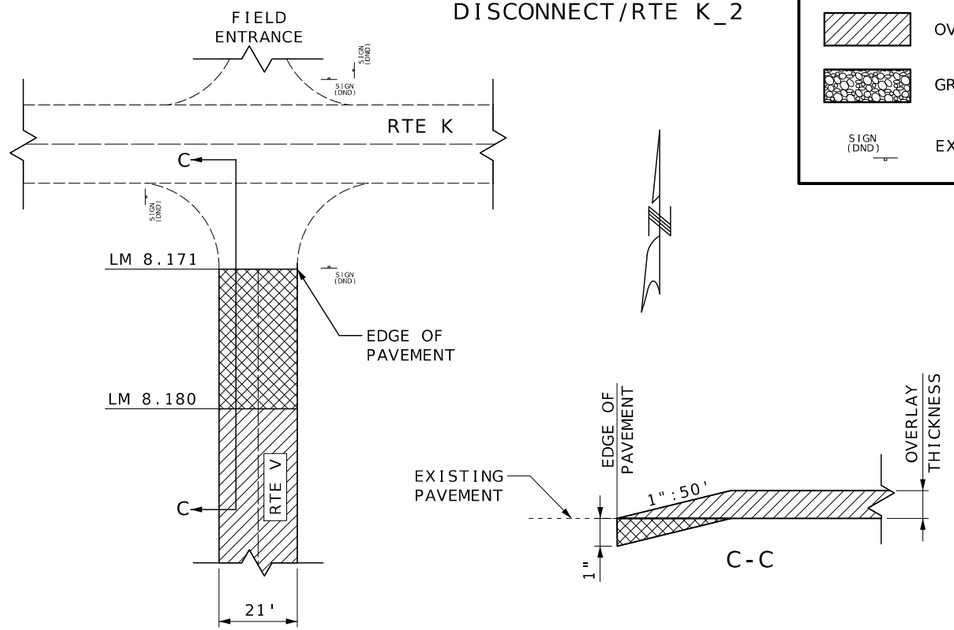
SECTION B-B
DISCONNECT/RTE K_1



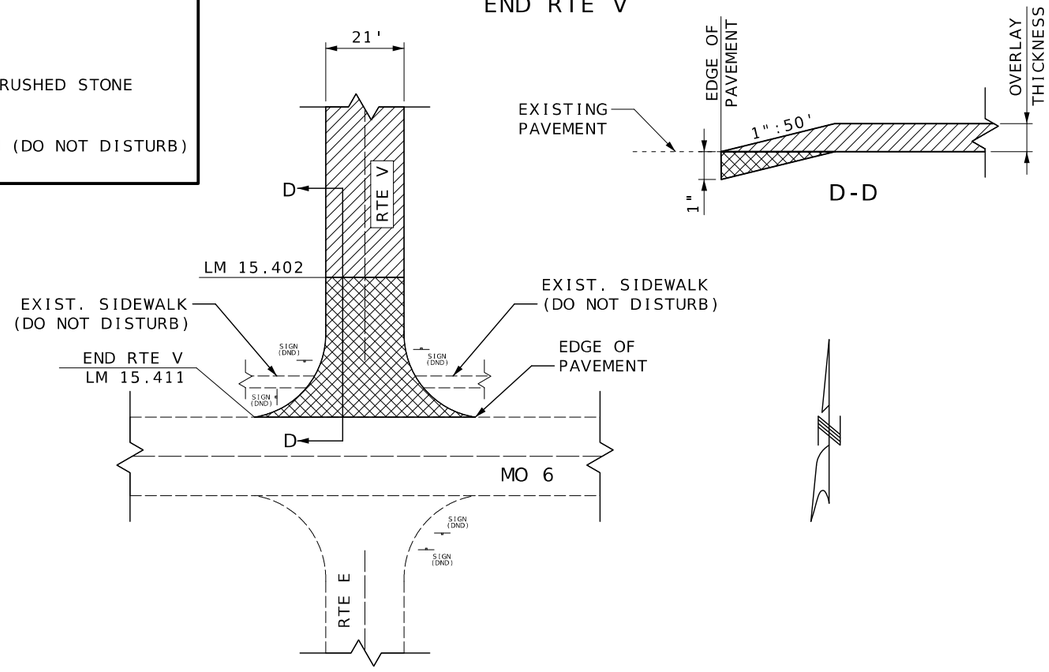
LEGEND

- MODIFIED COLDMILLING
- OVERLAY
- GRAVEL OR CRUSHED STONE
- SIGN (DND) — EXIST. SIGN (DO NOT DISTURB)

SECTION C-C
DISCONNECT/RTE K_2



SECTION D-D
END RTE V



STATE OF MISSOURI
DALTON Z. HANDLING
NUMBER PE-2026013017
PROFESSIONAL ENGINEER
09/28/2026 4:11:15 PM
DALTON Z. HANDLING - CIVIL
MO-PE-2026013017

DATE PREPARED: 9/24/2026

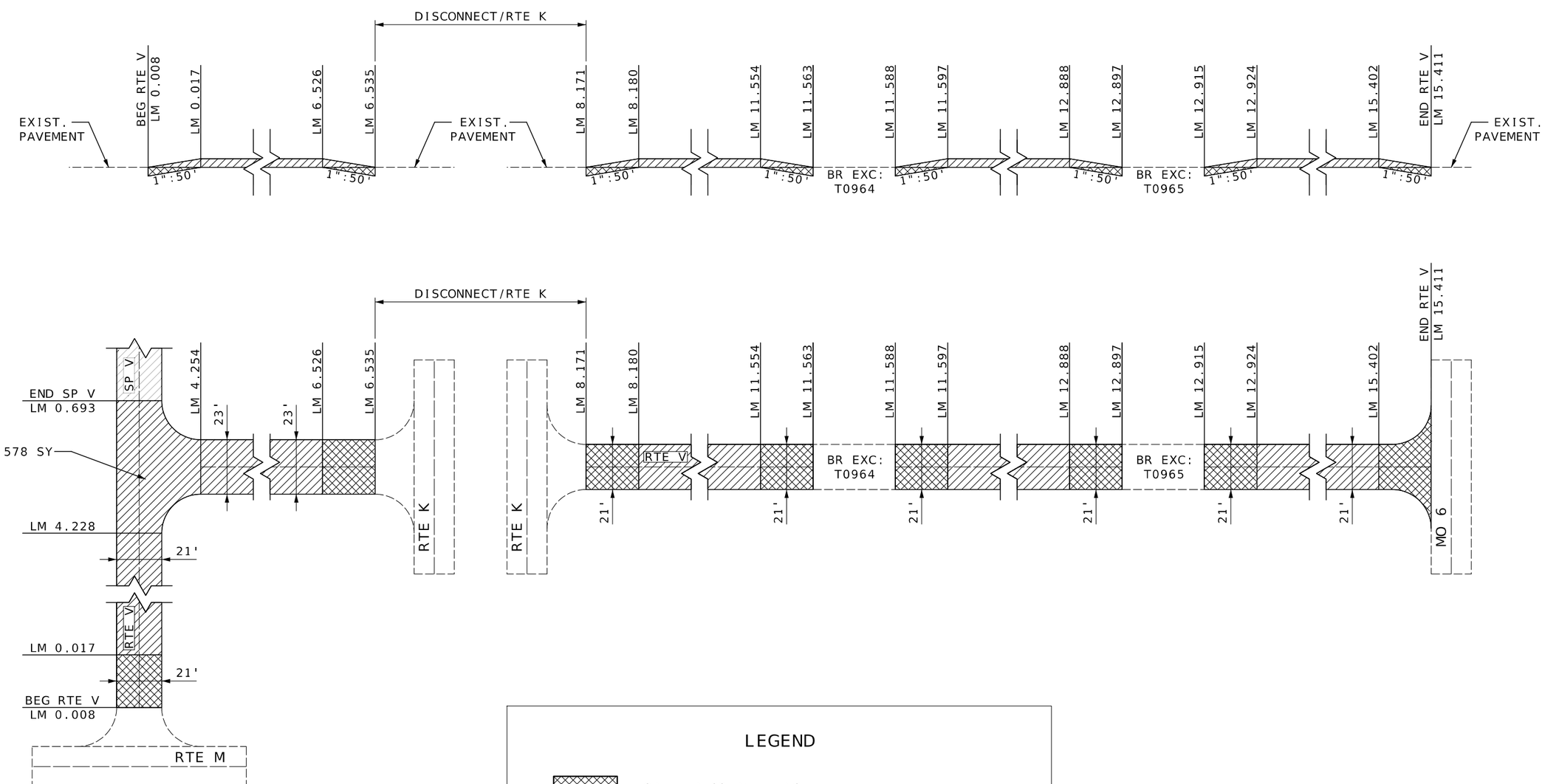
ROUTE	STATE
VAR	MO
DISTRICT	SHEET NO.
NE	7

COUNTY: KNOX/SHELBY
JOB NO.: JST0182
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)

RTE V - KNOX
SPECIAL SHEET
SHEET 4 OF 7
NOT TO SCALE



LONGITUDINAL DEPTH TRANSITION

STATE OF MISSOURI
DALTON Z HANDLING
NUMBER PE-2026013017
PROFESSIONAL ENGINEER
09/28/2026 4:06:33 PM
DALTON Z. HANDLING - CIVIL
MO-PE-2026013017

DATE PREPARED
9/24/2026

ROUTE	STATE
VAR	MO
DISTRICT	SHEET NO.
NE	8

COUNTY
KNOX/SHELBY

JOB NO.
JST0182

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

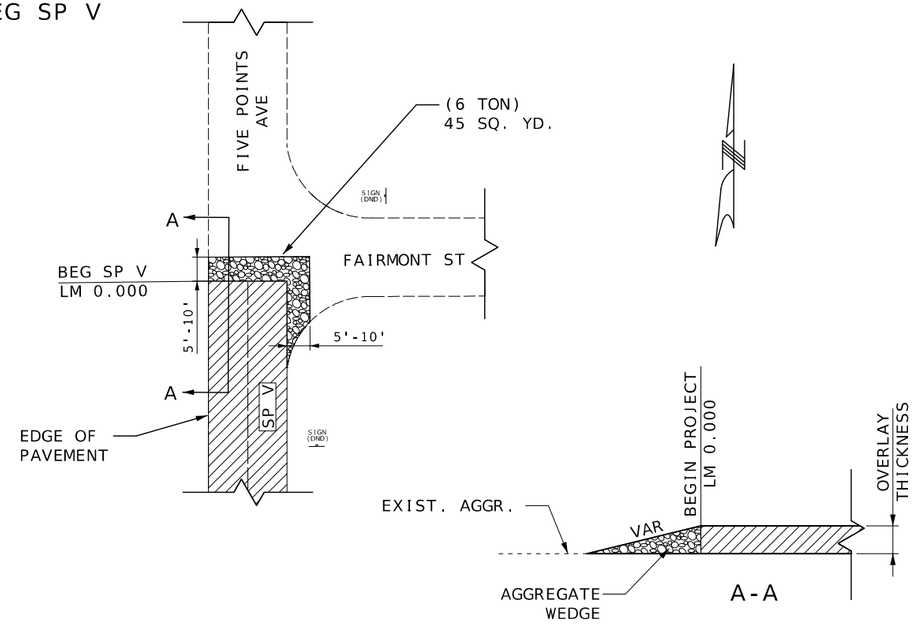
DESCRIPTION	DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

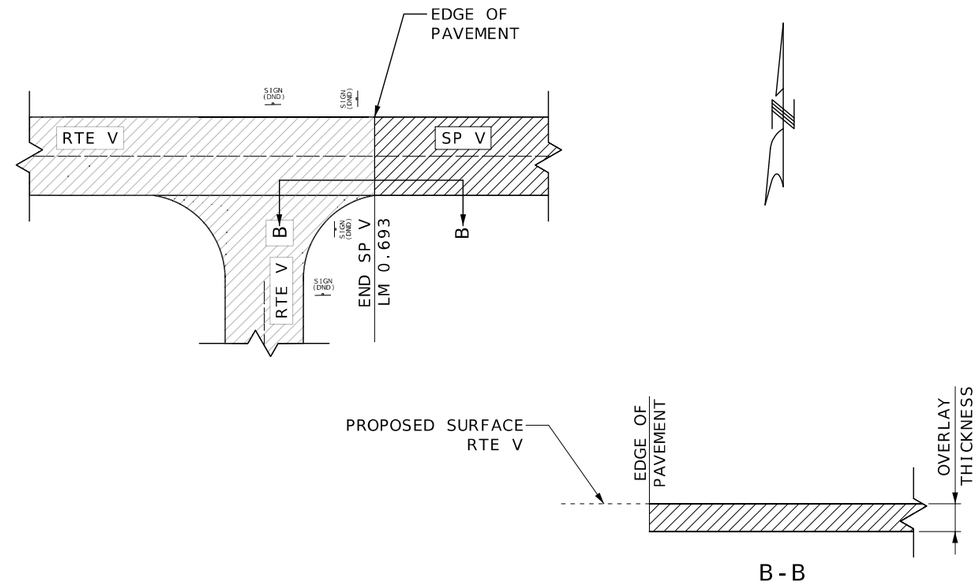
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

RTE V - KNOX
SPECIAL SHEET
SHEET 5 OF 7
NOT TO SCALE

SECTION A-A
BEG SP V



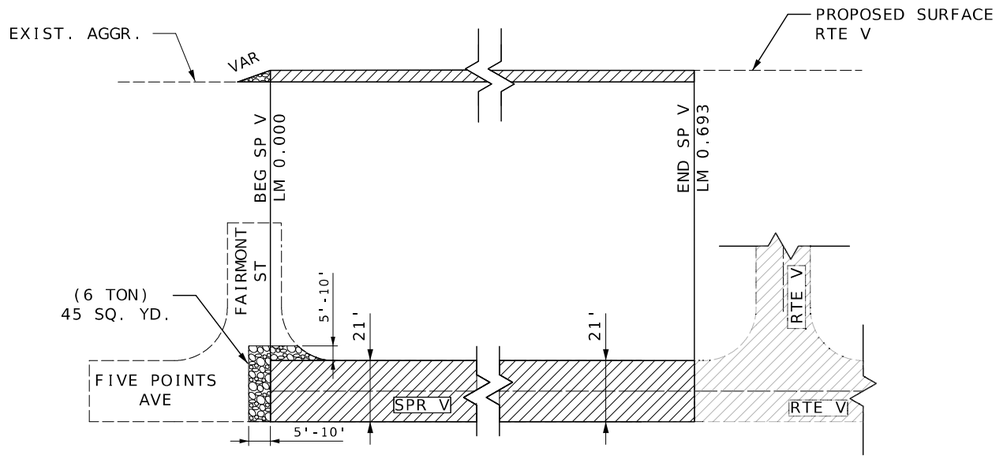
SECTION B-B
END SP V



LEGEND

- RTE V OVERLAY
- OVERLAY
- GRAVEL OR CRUSHED STONE
- SIGN (DND) — EXIST. SIGN (DO NOT DISTURB)

BEG SP V LM 0.000 END SP V LM 0.693



LONGITUDINAL DEPTH TRANSITION

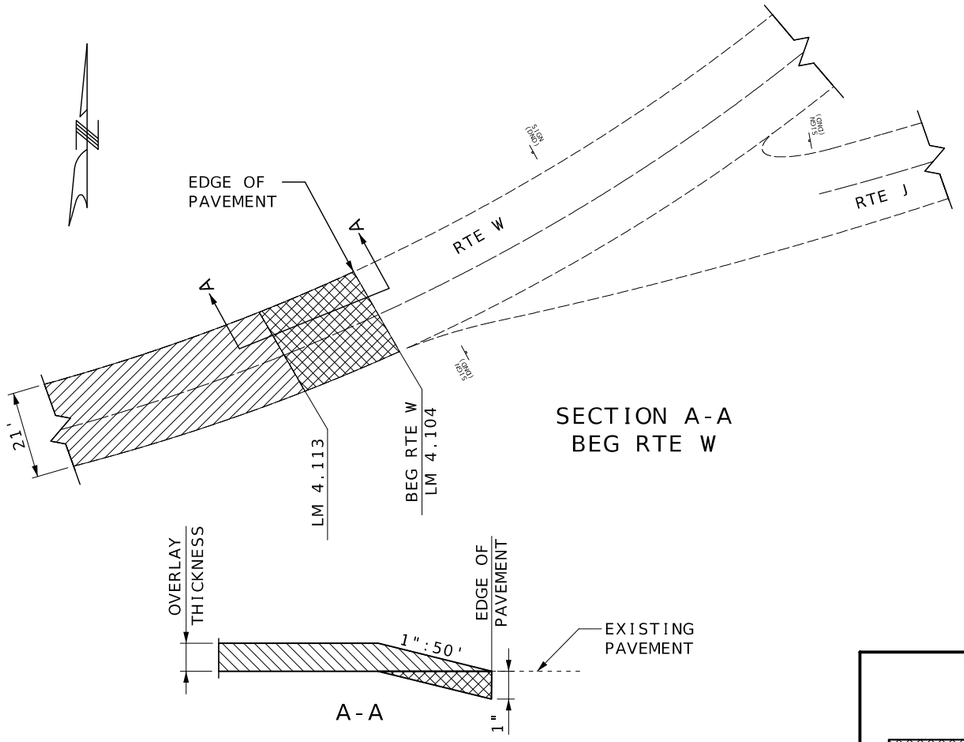
STATE OF MISSOURI
DALTON Z HANDLING
NUMBER PE-2026013017
PROFESSIONAL ENGINEER
09/28/2026 4:06:01 PM
DALTON Z. HANDLING - CIVIL
MO-PE-2026013017

DATE PREPARED	
9/24/2026	
ROUTE	STATE
VAR	MO
DISTRICT	SHEET NO.
NE	9
COUNTY	
KNOX/SHELBY	
JOB NO.	
JST0182	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

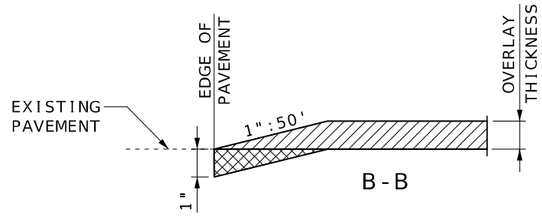
DESCRIPTION	DATE

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

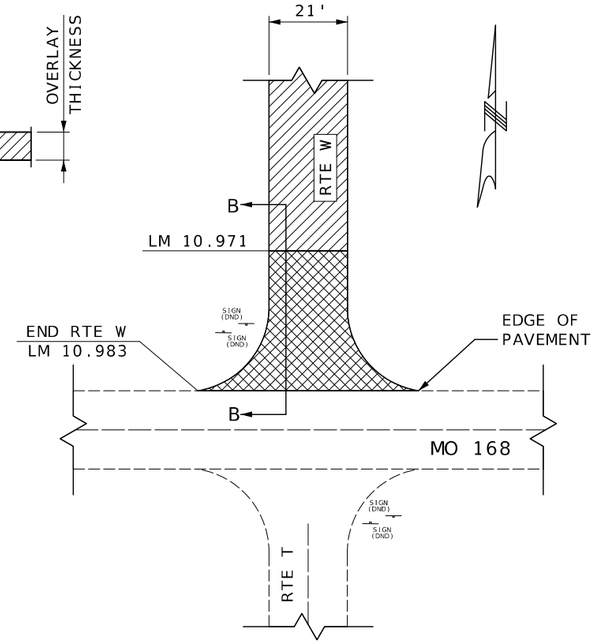
SP V - KNOX
SPECIAL SHEET
SHEET 6 OF 7
NOT TO SCALE



SECTION A-A
BEG RTE W



SECTION B-B
END RTE W

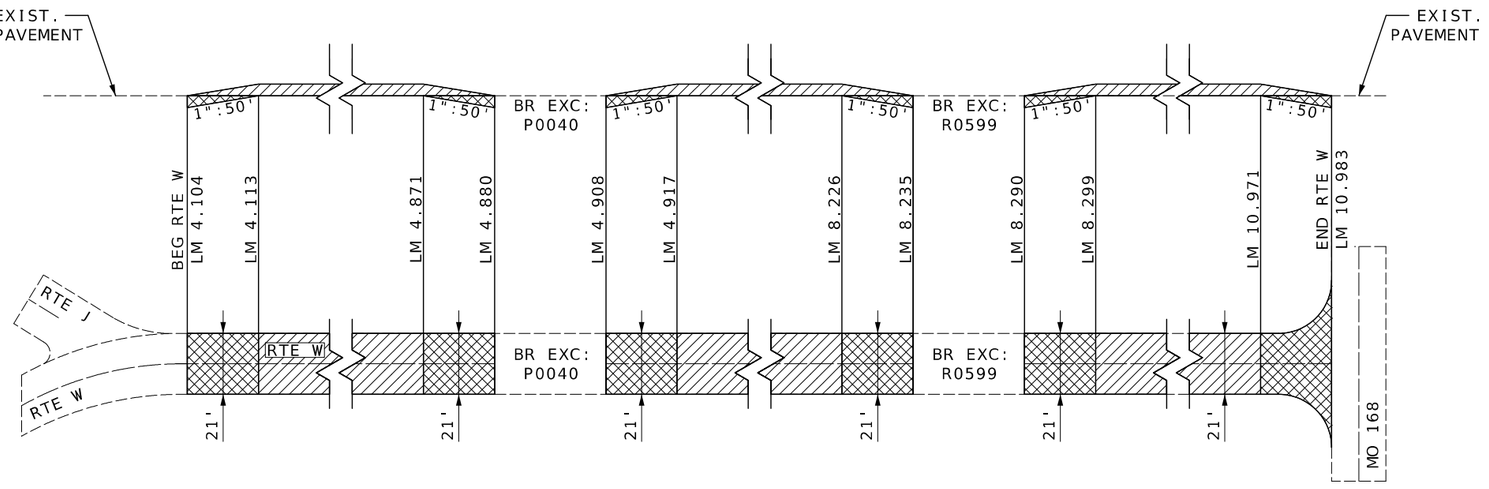


LEGEND

- MODIFIED COLDMILLING
- OVERLAY

BEG RTE W LM 4.104

END RTE W LM 10.983



LONGITUDINAL DEPTH TRANSITION

STATE OF MISSOURI
DALTON Z. HANDLING
NUMBER PE-2026013017
PROFESSIONAL ENGINEER
09/28/2026 4:05:31 PM
DALTON Z. HANDLING - CIVIL
MO-PE-2026013017

DATE PREPARED
9/24/2026

ROUTE	STATE
VAR	MO
DISTRICT	SHEET NO.
NE	10

COUNTY
KNOX/SHELBY

JOB NO.
JST0182

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)

RTE W - SHELBY
SPECIAL SHEET
SHEET 7 OF 7
NOT TO SCALE