DESIGN DESIGNATION

A.A.D.T - 2024 = 1,321

V = 60 M.P.H

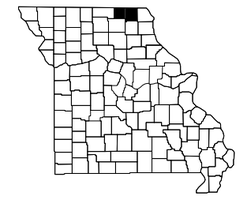
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

PLANS FOR PROPOSED

STATE HIGHWAY

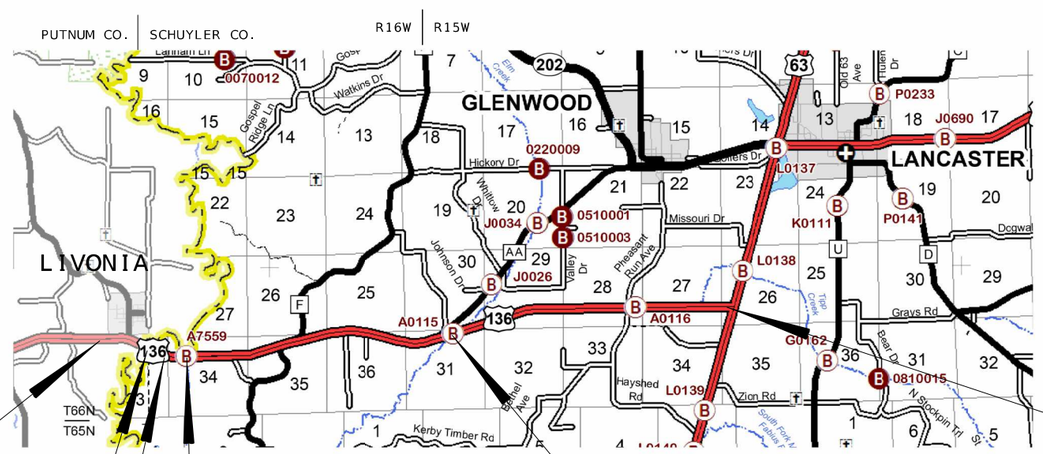
SCHUYLER AND PUTNAM COUNTIES

T66N, R16W-R15W



KEY MAP

SHOWING LOCATION OF COUNTY



BRIDGE A7559 EXCEPTION
LM 183.584 TO LM 183.626

CONCRETE EXCEPTION
LM 183.326 TO LM 183.446

BRIDGE A0115 EXCEPTION
LM 187.027 TO LM 187.054

CONCRETE EXCEPTION
LM 183.005 TO LM 183.095

END OR PROJECT
LOG MILE 182.453

BEG OR PROJECT
LOG MILE 190.626

1" SURFACE LEVELING
RTE 136

1 ½ 0 1 2 3 4

SCALE IN MILES

INDEX OF SHEETS

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

LENGTH OF PROJECT

RTE 136

BEGIN OF PROJECT	LOG MILE	182.453
END OF PROJECT	LOG MILE	190.626
APPARENT LENGTH	MILES	8.173

EQUATIONS AND EXCEPTIONS:

CONCRETE EXCEPTION	0.090 MILES
CONCRETE EXCEPTION	0.120 MILES
BRIDGE A7559	0.042 MILES
BRIDGE A0115	0.027 MILES
TOTAL CORRECTIONS	0.279 MILES
NET LENGTH OF PROJECT	7.894 MILES
STATE LENGTH	7.894 MILES

STATE OF MISSOURI
CHRISTOPHER S. KNAPP
NUMBER PE-2005023325
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

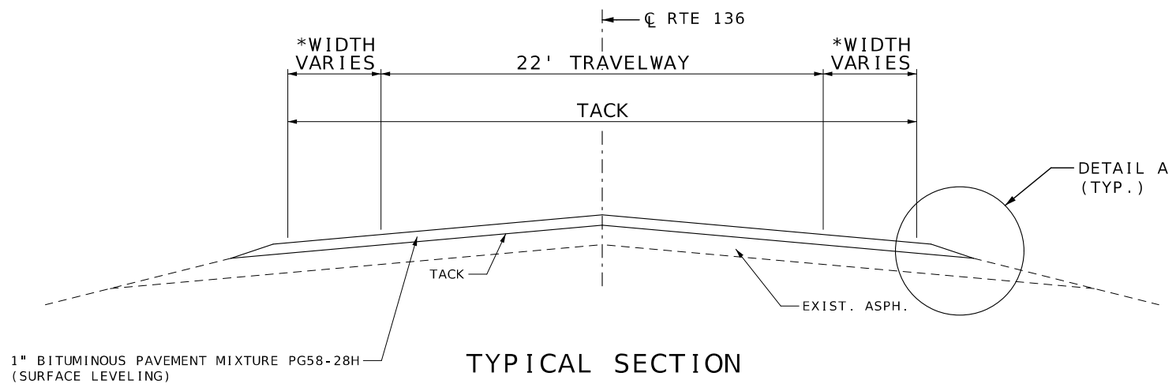
DATE PREPARED	6/3/2024
ROUTE	136
STATE	MO
DISTRICT	NE
SHEET NO.	1
COUNTY	SCHUYLER/PUTNAM
JOB NO.	JNE0019
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

DESCRIPTION

DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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



TYPICAL SECTION

* LOG MI. 182.453 TO 183.005 - 7' †
* LOG MI. 183.095 TO 183.326 - 7' †
* LOG MI. 183.446 TO 183.557 - 7'
* LOG MI. 183.557 TO 183.584 - 7-0' †
* LOG MI. 183.626 TO 183.658 - 0-7'
* LOG MI. 183.658 TO 186.997 - 7'
* LOG MI. 186.997 TO 187.027 - 7-4' †
* LOG MI. 187.054 TO 187.084 - 4-7'
* LOG MI. 187.084 TO 190.626 - 7'

† CONCRETE EXCEPTION
LOG MI. 183.005 TO 183.095

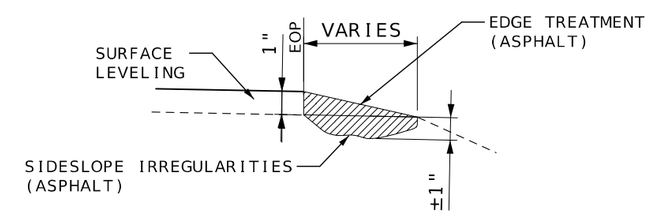
† CONCRETE EXCEPTION
LOG MI. 183.326 TO 183.446

† BRIDGE A7559 EXCEPTION
LOG MI. 183.584 TO 183.626

† BRIDGE A0115 EXCEPTION
LOG MI. 187.027 TO 187.054

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 (SURFACE LEVELING) = 1.948 TON/CY
TACK COAT (EXISTING SURFACE) = 0.08 GAL/SY
TACK COAT (COLDMILLED SURFACE) = 0.10 GALLON / SY



NOTE:

THE ASPHALT EDGE TREATMENT (ASPHALT) AS WELL AS THE SIDESLOPE IRREGULARITIES (ASPHALT) SHALL BE LAID MONOLITHICALLY WITH THE SURFACE LEVELING AND ONE PASS.

DETAIL A

STATE OF MISSOURI
CHRISTOPHER S. KNAPP
NUMBER PE-2005023325
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED	
6/3/2024	
ROUTE 136	STATE MO
DISTRICT NE	SHEET NO. 2
COUNTY SCHUYLER/PUTNAM	
JOB NO. JNE0019	
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)

TYPICAL SECTION SHEET
SHEET 1 OF 1
NOT TO SCALE

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

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
182.453	183.005	2914.56	1.00	36	11658	630.8	932.6	BEG PROJECT TO CONCRETE EXCEPTION OVER CULVERT
183.095	183.326	1219.68	1.00	36	4879	264.0	390.3	CONCRETE EXCEPTION
183.446	183.557	586.08	1.00	36	2344	126.8	187.5	
183.557	183.584	142.56	1.00	36-22	459	24.8	36.7	BRIDGE A7559
183.626	183.658	168.96	1.00	22-36	544	29.4	43.5	
183.658	186.997	17629.92	1.00	36	70520	3815.9	5641.6	
186.997	187.027	158.40	1.00	36-30	581	31.4	46.5	BRIDGE A0115
187.054	187.084	158.40	1.00	30-36	581	31.4	46.5	
187.084	190.626	18701.76	1.00	36	74807	4047.9	5984.6	END PROJECT
182.453	190.626	43153.44	-	-	-	2206.7	-	ADDTL. 270 TONS/MILE FOR SURFACE IRREGULARITIES
182.453	190.626	43153.44	-	-	-	518.9	-	EDGE TREATMENT - LEFT AND RIGHT
					SUBTOTAL	11,728.0	13,309.8	
					SUBTOTAL	76.9	115.0	PAVED ENTRANCES
					TOTAL	11,804.9	13,425	

MODIFIED COLDMILLING (DEPTH TRANSITIONS)

LOG MILE	LOG MILE	LENGTH (FT)	THICKNESS (IN)	WIDTH (FT)	MODIFIED COLDMILLING (SY)	REMARKS
182.453	182.462	50.00	1.00	36	200	BEG PROJECT
182.996	183.005	50.00	1.00	36	200	CONCRETE EXCEPTION
183.095	183.104	50.00	1.00	36	200	
183.317	183.326	50.00	1.00	36	200	CONCRETE EXCEPTION
183.446	183.455	50.00	1.00	36	200	
183.575	183.584	50.00	1.00	36	200	BRIDGE A7559
183.626	183.635	50.00	1.00	36	200	
187.018	187.027	50.00	1.00	36	200	BRIDGE A0115
187.054	187.063	50.00	1.00	36	200	
190.617	190.626	50.00	1.00	36	200	END PROJECT
				SUBTOTAL	2,000	
				SUBTOTAL	161	PAVED ENTRANCES
				TOTAL	2,161	

MOBILIZATION

1 LUMP SUM

TRAFFIC CONTROL DEVICES

QTY	DESCRIPTION
25	CHANNELIZERS (TRIM-LINE)

NOTE: FOR INFORMATIONAL PURPOSES ONLY.
SEE LUMP SUM PAY ITEM

STATE/COUNTY ROUTE JUNCTIONS AND PAVED ENTRANCES

LOG MILE	LOCATION	AREA (SY)	1" SURFACE LEVELING 1.948 TONS/CY (TONS)	TACK COAT 0.08 GAL/ SQ. YD. (GAL)	MODIFIED COLDMILLING (SY)	REMARKS
182.805	RT.	360	19.5	29	27	RTE N
184.903	LT.	360	19.5	29	37	RTE F
184.903	RT.	320	17.3	26	43	RTE H
186.520	RT.	20	1.1	2	20	ASPHALT
186.862	LT.	360	19.5	29	34	RTE AA
		SUBTOTAL	76.9	115.0	161.0	

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
182.453	190.626	37	2.0	74.0	PRIVATE AND FIELD ENTRANCES
182.453	190.626	15	4.0	60.0	COUNTY ROADS, CITY STREETS, COMMERCIAL ENTRANCES
			TOTAL	134.0	

LUMP SUM TEMPORARY TRAFFIC CONTROL

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

NOTE: ALL TRAFFIC CONTROL ARE INCLUDED IN PAY ITEM 616-99.01, LUMP SUM TEMPORARY TRAFFIC CONTROL UNLESS NOTED OTHERWISE IN THE PLANS. THESE QUANTITIES ARE ONLY AN ESTIMATE & ARE SUBJECT TO CHANGE BASED UPON FIELD CONDITIONS.

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 9 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	8	128.00	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	16	256.00	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 - 2 TOTAL						
2	W020-1	48 X 48	16.00	2	32.00	ROAD WORK AHEAD
8	W020-7a	48 X 48	16.00	2	32.00	FLAGGER (SYMBOL)
11	W03-4	48 X 48	16.00	2	32.00	BE PREPARED TO STOP
58	G020-4a	18 X 12	1.50	2	3.00	PILOT CAR IN USE WAIT & FOLLOW
SIDE ROAD PACKAGE - STATE ROUTE - 4 TOTAL						
2	W020-1	48 X 48	16.00	4	64.00	ROAD WORK AHEAD
8	W020-7a	48 X 48	16.00	4	64.00	FLAGGER (SYMBOL)
11	W03-4	48 X 48	16.00	4	64.00	BE PREPARED TO STOP
58	G020-4a	42 X 30	8.75	4	35.00	PILOT CAR IN USE WAIT & FOLLOW
				TOTAL	1016.26	

NOTE: FOR INFORMATIONAL PURPOSES ONLY. SEE LUMP SUM PAY ITEM

REFER TO STD. PLANS 616.20 FOR TEMPORARY TRAFFIC CONTROL PLANS
REFER TO STD. PLAN 616.10 FOR SIGN AND SIGN MOUNTING REQUIREMENTS
MOBILE OPERATION TMA'S ARE CONSIDERED INCIDENTAL TO CONSTRUCTION

STATE OF MISSOURI
CHRISTOPHER S. KNAPP
NUMBER PE-2005023325
PROFESSIONAL ENGINEER
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DATE PREPARED 6/17/2024

ROUTE	STATE
136	MO
DISTRICT	SHEET NO.
NE	3

COUNTY SCHUYLER/PUTNAM
JOB NO. JNE0019
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)

SUMMARY OF QUANTITIES
SHEET 1 OF 3

GUARDRAIL

LOG MILE	LOG MILE	LOCATION	MGS GUARDRAIL (LF)	MGS BRIDGE APPROACH TRANSITION SECTION (REGULAR/NO CURB) (EACH)	MGS BRIDGE APPROACH TRANSITION SECTION (THRIE BEAM) (EACH)	TYPE A CRASHWORTHY END TERMINAL (MASH) (EACH)	MGS HEIGHT AND BLOCK TRANSITION (EACH)	SHAPING SLOPES CLASS III (STA)	REMARKS
183.584	-	NW QUAD	37.5	1	-	1		0.75	
183.584	-	SW QUAD	37.5	1	-	1		0.75	
183.629	-	NE QUAD	37.5	1	-	1		0.75	
183.629	-	SE QUAD	37.5	1	-	1		0.75	
184.333	184.382	RT.	162.5	-	-	2		3.0	REPLACE ENTIRE RUN
184.679	184.736	RT.	200.0	-	-	2		3.5	REPLACE ENTIRE RUN
184.921	184.961	RT.	162.5	-	-	1	1	2.5	REPLACE GUARDRAIL PARALLEL TO RTE 136
185.573	185.622	RT.	212.5	-	-	1	1	3.0	REPLACE GUARDRAIL PARALLEL TO RTE 136
185.631	185.714	RT.	387.5	-	-	1	1	4.5	REPLACE GUARDRAIL PARALLEL TO RTE 136
186.351	186.503	RT.	700.0	-	-	2		8.5	REPLACE ENTIRE RUN
186.380	186.430	LT.	162.5	-	-	2		3.0	REPLACE ENTIRE RUN
187.025	-	NW QUAD	50.0	-	1	1		0.75	
187.025	-	SW QUAD	50.0	-	1	1		0.75	
187.052	-	NE QUAD	50.0	-	1	1		0.75	
187.052	-	SE QUAD	50.0	-	1	1		0.75	
187.383	-	LT.	-	-	-	1	1	0.75	UIP GUARDRAIL, REPLACE TURNED DOWN ENDS
187.564	-	LT.	-	-	-	1	1	0.75	UIP GUARDRAIL, REPLACE TURNED DOWN ENDS
188.962	-	LT.	-	-	-	1	1	0.75	UIP GUARDRAIL, REPLACE TURNED DOWN ENDS
189.019	-	LT.	-	-	-	1	1	0.75	UIP GUARDRAIL, REPLACE TURNED DOWN ENDS
189.639	189.682	LT.	125.0	-	-	2		3.0	REPLACE ENTIRE RUN
190.195	190.233	LT.	100.0	-	-	2		2.5	REPLACE ENTIRE RUN
		TOTAL	2,563	4	4	27	7	43	

NOTE: ASSUMING 50' CRASHWORTHY END TERMINALS

REMOVAL OF IMPROVEMENTS

LOG MILE	LOCATION	DESCRIPTION
183.584	NW QUAD	REMOVE TURN DOWN END SECTION AND GUARDRAIL - LEFT - APPROX 125 FT
183.584	SW QUAD	REMOVE TURN DOWN END SECTION AND GUARDRAIL - RIGHT - APPROX 125 FT
183.629	NE QUAD	REMOVE TURN DOWN END SECTION AND GUARDRAIL - LEFT - APPROX 125 FT
183.629	SE QUAD	REMOVE TURN DOWN END SECTION AND GUARDRAIL - RIGHT - APPROX 125 FT
184.333	RT.	REMOVE TURN DOWN END SECTION AND GUARDRAIL - RIGHT - APPROX 262.5 FT
184.679	RT.	REMOVE TURN DOWN END SECTION AND GUARDRAIL - RIGHT - APPROX 300 FT
184.921	RT.	REMOVE TURN DOWN END SECTION AND GUARDRAIL - RIGHT - APPROX 212.5 FT
185.573	RT.	REMOVE TURN DOWN END SECTION AND GUARDRAIL - RIGHT - APPROX 262.5 FT
185.631	RT.	REMOVE TURN DOWN END SECTION AND GUARDRAIL - RIGHT - APPROX 437.5 FT
186.351	RT.	REMOVE TURN DOWN END SECTION AND GUARDRAIL - RIGHT - APPROX 800 FT
186.380	LT.	REMOVE TURN DOWN END SECTION AND GUARDRAIL - LEFT - APPROX 262.5 FT
187.025	NW QUAD	REMOVE TURN DOWN END SECTION AND GUARDRAIL - LEFT - APPROX 137.5 FT
187.025	SW QUAD	REMOVE TURN DOWN END SECTION AND GUARDRAIL - RIGHT - APPROX 137.5 FT
187.052	NE QUAD	REMOVE TURN DOWN END SECTION AND GUARDRAIL - LEFT - APPROX 137.5 FT
187.052	SE QUAD	REMOVE TURN DOWN END SECTION AND GUARDRAIL - RIGHT - APPROX 137.5 FT
187.383	LT.	REMOVE TURN DOWN END SECTION AND GUARDRAIL - LEFT - APPROX 50 FT
187.564	LT.	REMOVE TURN DOWN END SECTION AND GUARDRAIL - LEFT - APPROX 50 FT
188.962	LT.	REMOVE TURN DOWN END SECTION AND GUARDRAIL - LEFT - APPROX 50 FT
189.019	LT.	REMOVE TURN DOWN END SECTION AND GUARDRAIL - LEFT - APPROX 50 FT
189.639	LT.	REMOVE TURN DOWN END SECTION AND GUARDRAIL - LEFT - APPROX 225 FT
190.195	LT.	REMOVE TURN DOWN END SECTION AND GUARDRAIL - LEFT - APPROX 200 FT
	1 LUMP SUM	

TRANSVERSE RUMBLES

LOG MILE	LENGTH	WIDTH (LF)	AREA SY	REMARKS
190.501	24	10	27	
190.545	24	10	27	
TOTAL			54	

STATE OF MISSOURI
CHRISTOPHER S. KNAPP
NUMBER PE-2005023325
PROFESSIONAL ENGINEER
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DATE PREPARED 6/3/2024

ROUTE	STATE
136	MO
DISTRICT	SHEET NO.
NE	3

COUNTY: SCHUYLER/PUTNAM
JOB NO.: JNE0019
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)

SUMMARY OF QUANTITIES
SHEET 2 OF 3

PAVEMENT MARKINGS

LOG MILE	LOG MILE	LOCATION	STANDARD WATERBORNE PAINT, TYPE P BEADS				REMARKS
			4" YELLOW INTERMITTENT CENTERLINE (LF)	4" YELLOW SOLID/INTERMITTENT CENTERLINE (LF)	4" YELLOW DOUBLE SOLID CENTERLINE (LF)	4" WHITE SOLID EDGELINE (LF)	
182.453	182.513	RTE 136		396			
182.513	182.560	RTE 136	70				
182.560	182.724	RTE 136		1082			EBL SOLID AND WBL INTERMITTENT
182.724	183.401	RTE 136			7149		
183.401	183.583	RTE 136		1201			EBL INTERMITTENT AND WBL SOLID
183.583	183.854	RTE 136	360				
183.854	184.057	RTE 136		1340			EBL SOLID AND WBL INTERMITTENT
184.057	184.403	RTE 136			3654		
184.403	184.591	RTE 136		1241			EBL INTERMITTENT AND WBL SOLID
184.591	184.683	RTE 136	130				
184.683	184.863	RTE 136		1188			EBL SOLID AND WBL INTERMITTENT
184.863	185.105	RTE 136			2556		
185.105	185.301	RTE 136		1294			EBL INTERMITTENT AND WBL SOLID
185.301	185.693	RTE 136	520				
185.693	185.881	RTE 136		1241			EBL SOLID AND WBL INTERMITTENT
185.881	186.001	RTE 136			1267		
186.001	186.203	RTE 136		1333			EBL INTERMITTENT AND WBL SOLID
186.203	186.277	RTE 136	100				
186.277	186.481	RTE 136		1346			EBL SOLID AND WBL INTERMITTENT
186.481	186.663	RTE 136			1922		
186.663	186.861	RTE 136		1307			EBL INTERMITTENT AND WBL SOLID
186.861	187.342	RTE 136	640				
187.342	187.521	RTE 136		1181			EBL SOLID AND WBL INTERMITTENT
187.521	187.633	RTE 136			1183		
187.633	187.846	RTE 136		1406			EBL INTERMITTENT AND WBL SOLID
187.846	188.056	RTE 136		1386			EBL SOLID AND WBL INTERMITTENT
188.056	188.295	RTE 136		1577			EBL INTERMITTENT AND WBL SOLID
188.295	190.553	RTE 136	2,990				
190.553	190.626	RTE 136			771		
182.453	190.626	RTE 136				86,307	
182.453	190.626	RTE 136				-555	EDGELINE EXCEPTIONS
		SUBTOTAL	4,810	18,519	18,502	85,752	
		TOTAL		41,831		85,752	

LOG MILES ARE APPROXIMATE - MATCH EXISTING STRIPING

STATE OF MISSOURI
CHRISTOPHER S. KNAPP
NUMBER
PE-2005023325
PROFESSIONAL ENGINEER

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DATE PREPARED
6/3/2024

ROUTE	STATE
136	MO
DISTRICT	SHEET NO.
NE	3

COUNTY
SCHUYLER/PUTNAM

JOB NO.
JNE0019

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION	DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL
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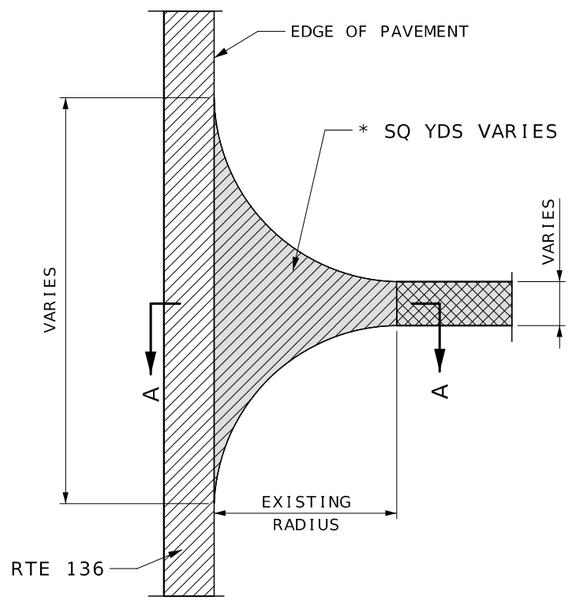
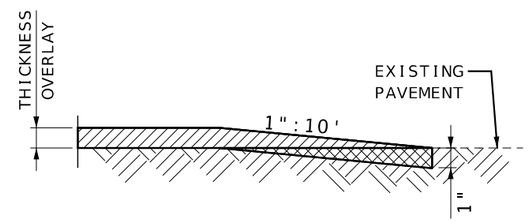
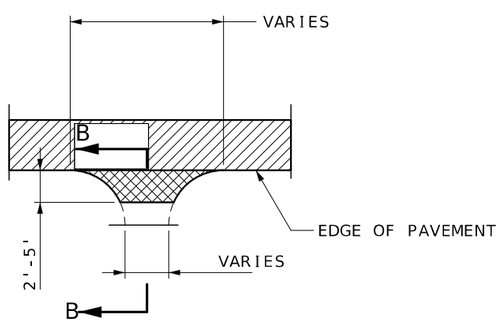
SUMMARY OF QUANTITIES
SHEET 3 OF 3

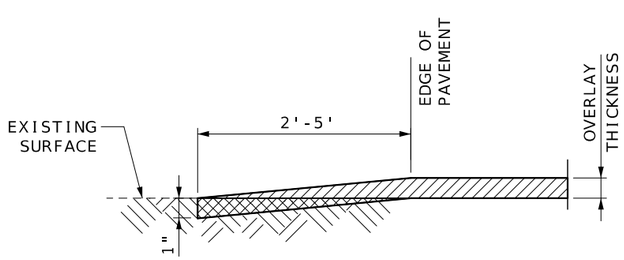




SECTION A-A
TYPICAL STATE ROUTE JUNCTION

* LM 182.805 RT./RTE N/360 SQ YDS
* LM 184.903 LT./RTE F/360 SQ YDS
* LM 184.903 RT./RTE H/320 SQ YDS
* LM 186.862 LT./RTE AA/360 SQ YDS





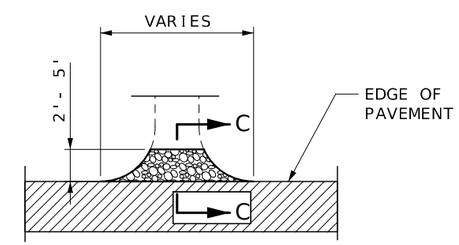
SECTION B-B
TYPICAL ASPHALT/CONCRETE ENTRANCE OR SIDE ROAD
(COUNTY ROADS, CITY STREETS AND
PRIVATE OR COMMERCIAL ENTRANCES)

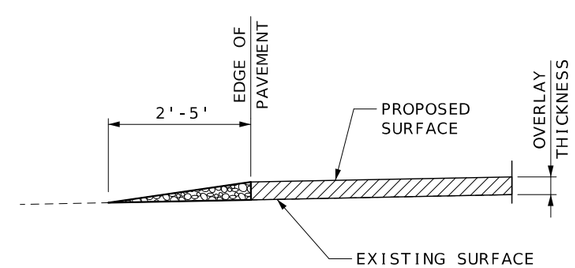
LEGEND

GRAVEL OR CRUSHED STONE

OVERLAY

MODIFIED COLDMILLING





SECTION C-C
TYPICAL AGGREGATE ENTRANCE
(FIELD, PRIVATE, COMMERCIAL ENTRANCES,
COUNTY ROADS AND CITY STREETS)

STATE OF MISSOURI
CHRISTOPHER S. KNAPP
NUMBER
PE-2005023325
PROFESSIONAL ENGINEER

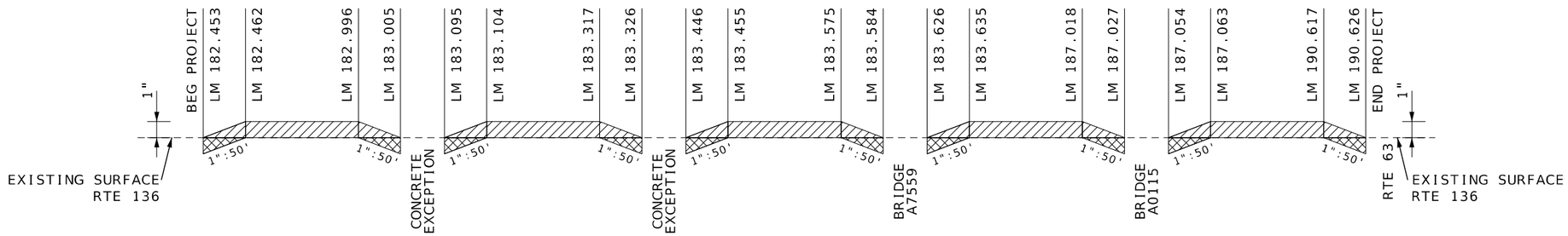
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED	6/3/2024
ROUTE	136
STATE	MO
DISTRICT	NE
SHEET NO.	4
COUNTY	SCHUYLER/PUTNAM
JOB NO.	JNE0019
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

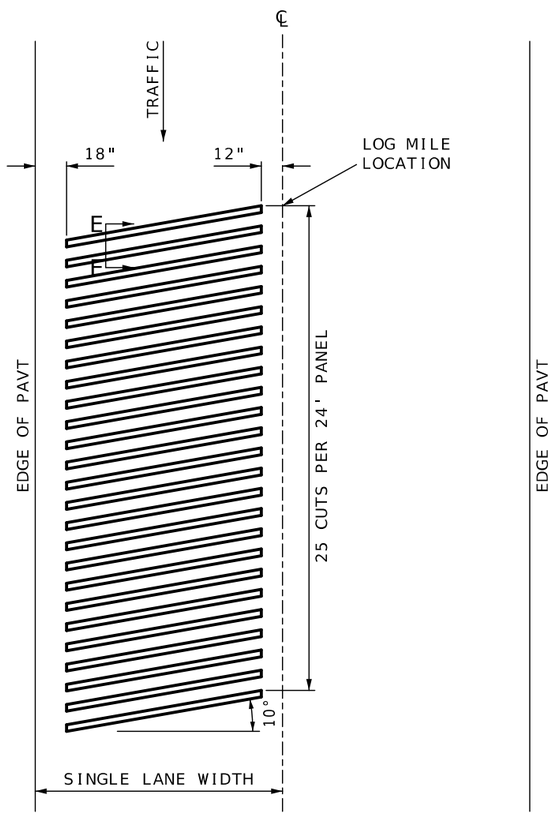
DATE	DESCRIPTION

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

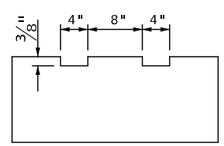
SPECIAL SHEET
SHEET 1 OF 2
NOT TO SCALE



LONGITUDINAL DEPTH TRANSITION



TYPICAL TRANSVERSE RUMBLE STRIPS DIMENSIONS

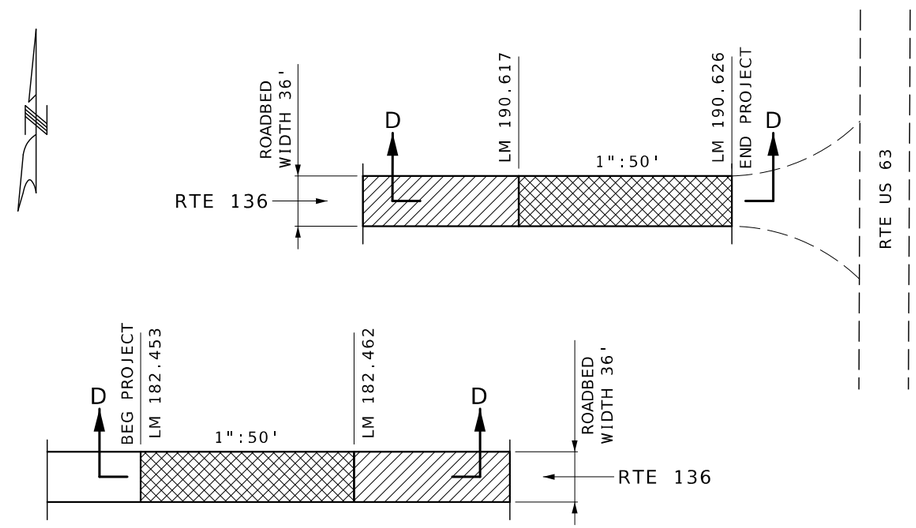


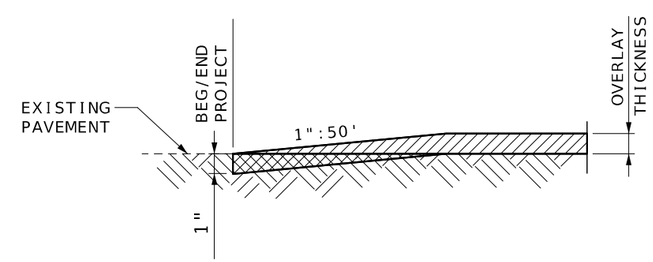
SECTION E-E
RUMBLE STRIP
DEPTH DIMENSIONS

LEGEND

OVERLAY

MODIFIED COLDMILLING





SECTION D-D
ROADBED DEPTH TRANSITIONS

STATE OF MISSOURI
CHRISTOPHER S. KNAPP
NUMBER PE-2005023325
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED 6/3/2024	
ROUTE 136	STATE MO
DISTRICT NE	SHEET NO. 5
COUNTY SCHUYLER/PUTNAM	
JOB NO. JNE0019	
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)

SPECIAL SHEET
SHEET 2 OF 2
NOT TO SCALE

DESIGN DESIGNATION

A.A.D.T - 2024 = 1,903

V = 60 M.P.H

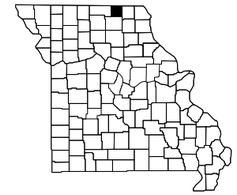
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

PLANS FOR PROPOSED

STATE HIGHWAY

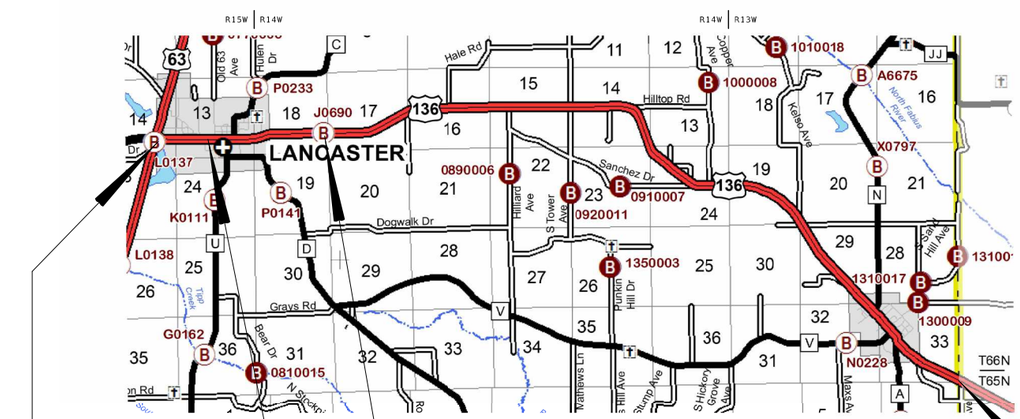
SCHUYLER COUNTY

T65N-T66N, R13W-R15W



KEY MAP

SHOWING LOCATION OF COUNTY



BRIDGE A9136 EXCEPTION

LM 194.825 TO LM 194.929

CONCRETE EXCEPTION

LM 193.295 TO LM 193.455

SCHUYLER CO.

SCOTLAND CO.

BEG OF PROJECT

LOG MILE 192.784

END OF PROJECT

LOG MILE 204.551

RTE 136

SEAL COAT GRADE A2

1 ½ 0 1 2 3 4

SCALE IN MILES

INDEX OF SHEETS

DESCRIPTION	SHEET NUMBER
TITLE SHEET	1
TYPICAL SECTIONS (TS) (1 SHEET)	2
QUANTITIES (QU) (2 SHEETS)	3

LENGTH OF PROJECT

RTE 136

BEGIN OF PROJECT	LOG MILE 192.784
END OF PROJECT	LOG MILE 204.551
APPARENT LENGTH	MILES 11.767

EQUATIONS AND EXCEPTIONS:

CONCRETE EXCEPTION	0.160 MILES
BRIDGE A9136 EXCEPTION	0.104 MILES
TOTAL CORRECTIONS	0.264 MILES
NET LENGTH OF PROJECT	11.503 MILES
STATE LENGTH	11.503 MILES

STATE OF MISSOURI
CHRISTOPHER S. KNAPP
NUMBER PE-2005023325
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

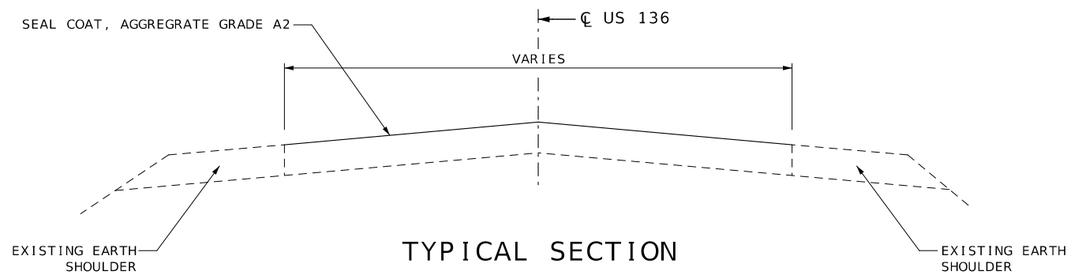
DATE PREPARED	5/31/2024
ROUTE	136
STATE	MO
DISTRICT	NE
SHEET NO.	1
COUNTY	SCHUYLER
JOB NO.	JNE0020
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

DESCRIPTION

DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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



TYPICAL SECTION

* LOG MI. 192.784 TO 193.295 - 30' †
* LOG MI. 193.455 TO 193.942 - 28'
* LOG MI. 193.942 TO 194.825 - 30' †
* LOG MI. 194.929 TO 203.279 - 30'
* LOG MI. 203.279 TO 203.561 - 28'
* LOG MI. 203.561 TO 204.551 - 30'

† CONCRETE EXCEPTION
LOG MI. 193.295 TO 193.455

† BRIDGE A9136 EXCEPTION
LOG MI. 194.825 to 194.929

ESTIMATE FACTORS
PROVIDED FOR INFORMATION PURPOSES ONLY
AGGREGATE APPLICATION RATE 17 LBS/SY
BINDER APPLICATION RATE 0.28 GAL/SY

STATE OF MISSOURI
CHRISTOPHER S. KNAPP
NUMBER PE-2005023325
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED
5/31/2024

ROUTE	STATE
136	MO
DISTRICT	SHEET NO.
NE	2

COUNTY
SCHUYLER

JOB NO.
JNE0020

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)

TYPICAL SECTION
SHEET 1 OF 1
NOT TO SCALE

SEAL COAT QUANTITIES

LOG MILE	LOG MILE	LOCATION	LENGTH (MI)	WIDTH (FT)	SEAL COAT AGGREGATE, GRADE A2 (SY)	EMULSIFIED ASPHALT, SEAL COAT (GAL)	REMARKS
192.784	193.295	RTE 136	0.511	30	8,993.6	2,518.2	CONCRETE EXCEPTION
193.455	193.942	RTE 136	0.487	28	7,999.8	2,239.9	
193.942	194.825	RTE 136	0.883	30	15,540.8	4,351.4	BRIDGE A9136
194.929	203.279	RTE 136	8.350	30	146,960.0	41,148.8	
203.279	203.561	RTE 136	0.282	28	4,632.3	1,297.0	
203.561	204.551	RTE 136	0.990	30	17,424.0	4,878.7	END PROJECT - COUNTY LINE
				TOTAL	201,550.5	56,434.0	
				USE	201,551	56,440	

FACTOR USED FOR EMULSIFIED ASPHALT = 0.28 GALLONS/S.Y.

MOBILIZATION

1 LUMP SUM

LUMP SUM TEMPORARY TRAFFIC CONTROL

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

NOTE: ALL TRAFFIC CONTROL ARE INCLUDED IN PAY ITEM 616-99.01, LUMP SUM TEMPORARY TRAFFIC CONTROL UNLESS NOTED OTHERWISE IN THE PLANS. THESE QUANTITIES ARE ONLY AN ESTIMATE & ARE SUBJECT TO CHANGE BASED UPON FIELD CONDITIONS.

TRAFFIC CONTROL DEVICES

QTY	DESCRIPTION
25	CHANNELIZERS (TRIM-LINE)

NOTE: FOR INFORMATIONAL PURPOSES ONLY.
SEE LUMP SUM PAY ITEM

ITEM NO.	QTY.	DESCRIPTION
616-1098A	2 **	CHANGEABLE MESSAGE BOARD

** ITEM NOT INCLUDED IN TEMP. TRAFFIC CONTROL LUMP SUM BID

PLURAL COMPONENT LIQUID PAVEMENT MARKING

LOG MILE	LOCATION	24" WHITE (LF)	REMARKS
193.639	RTE 136	12	EBL STOPBAR
193.648	RTE 136	12	WBL STOPBAR
	TOTAL	24	

LOG MILES ARE APPROXIMATE - MATCH EXISTING STRIPING

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 12 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	12	192.00	NO CENTER LINE
53	G020-4	36 X 18	4.50	3	13.50	PILOT CAR FOLLOW ME
57	W08-7a	36 X 36	9.00	24	216.00	FRESH OIL/LOOSE GRAVEL
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 - 8 TOTAL						
2	W020-1	48 X 48	16.00	8	128.00	ROAD WORK AHEAD
8	W020-7a	48 X 48	16.00	8	128.00	FLAGGER (SYMBOL)
11	W03-4	48 X 48	16.00	8	128.00	BE PREPARED TO STOP
58	G020-4a	18 X 12	1.50	8	12.00	PILOT CAR IN USE WAIT & FOLLOW
SIDE ROAD PACKAGE - STATE ROUTE - 5 TOTAL						
2	W020-1	48 X 48	16.00	5	80.00	ROAD WORK AHEAD
8	W020-7a	48 X 48	16.00	5	80.00	FLAGGER (SYMBOL)
11	W03-4	48 X 48	16.00	5	80.00	BE PREPARED TO STOP
58	G020-4a	42 X 30	8.75	5	43.75	PILOT CAR IN USE WAIT & FOLLOW
				TOTAL	1394.01	

NOTE: FOR INFORMATIONAL PURPOSES ONLY. SEE LUMP SUM PAY ITEM

REFER TO STD. PLANS 616.20 FOR TEMPORARY TRAFFIC CONTROL PLANS
REFER TO STD. PLAN 616.10 FOR SIGN AND SIGN MOUNTING REQUIREMENTS
MOBILE OPERATION TMA'S ARE CONSIDERED INCIDENTAL TO CONSTRUCTION

W08-7a

57

NOTE: FRESH OIL/LOOSE GRAVEL SIGN SHALL BE PLACED AT THE START OF THE PROJECT AT ONE MILE INTERVALS. SIGNS SHOULD ALSO BE INSTALLED WITHIN 150 FT. AFTER THE INTERSECTION OF A STATE ROUTE. ADDITIONAL SIGNS MAY BE INSTALLED WITHIN 150 FT. AFTER OTHER INTERSECTIONS, AS DIRECTED BY ENGINEER.

STATE OF MISSOURI
CHRISTOPHER S. KNAPP
NUMBER PE-2005023325
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED 6/17/2024
ROUTE 136 | STATE MO
DISTRICT NE | SHEET NO. 3
COUNTY SCHUYLER
JOB NO. JNE0020
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)

SUMMARY OF QUANTITIES
SHEET 1 OF 2

PAVEMENT MARKINGS

LOG MILE	LOG MILE	LOCATION	STANDARD WATERBORNE PAINT, TYPE P BEADS: 4" YELLOW INTERMITTENT CENTERLINE (LF)	4" YELLOW SOLID/INTERMITTENT CENTERLINE (LF)	4" YELLOW DOUBLE SOLID CENTERLINE (LF)	4" WHITE SOLID EDGELINE (LF)	REMARKS
192.784	192.802	RTE 136			190		
192.802	193.611	RTE 136	1,070				
193.611	193.639	RTE 136			296		
193.639	193.648	RTE 136					EXCEPTION - GREEN ST JUNCTION
193.648	193.676	RTE 136			296		
193.676	193.845	RTE 136	230				
193.845	193.935	RTE 136		594			EBL SOLID AND WBL INTERMITTENT
193.935	194.544	RTE 136			6431		
194.544	194.760	RTE 136		1426			EBL INTERMITTENT AND WBL SOLID
194.760	194.985	RTE 136	300				
194.985	195.215	RTE 136		1518			EBL SOLID AND WBL INTERMITTENT
195.215	195.564	RTE 136			3685		
195.564	195.668	RTE 136		686			EBL INTERMITTENT AND WBL SOLID
195.668	195.842	RTE 136		1148			EBL SOLID AND WBL INTERMITTENT
195.842	196.160	RTE 136			3358		
196.160	196.265	RTE 136		693			EBL INTERMITTENT AND WBL SOLID
196.265	196.520	RTE 136	340				
196.520	196.743	RTE 136		1472			EBL SOLID AND WBL INTERMITTENT
196.743	196.938	RTE 136			2059		
196.938	197.392	RTE 136		2996			EBL INTERMITTENT AND WBL SOLID
197.392	197.539	RTE 136			1552		
197.539	197.658	RTE 136		785			EBL INTERMITTENT AND WBL SOLID
197.658	197.718	RTE 136			634		
197.718	197.802	RTE 136		554			EBL SOLID AND WBL INTERMITTENT
197.802	198.413	RTE 136			6452		
198.413	198.562	RTE 136		983			EBL INTERMITTENT AND WBL SOLID
198.562	198.592	RTE 136			317		
198.592	198.765	RTE 136		1142			EBL SOLID AND WBL INTERMITTENT
198.765	198.963	RTE 136			2091		
198.963	199.233	RTE 136		1782			EBL INTERMITTENT AND WBL SOLID
199.233	199.278	RTE 136	60				
199.278	199.442	RTE 136		1082			EBL SOLID AND WBL INTERMITTENT
199.442	199.661	RTE 136			2313		
199.661	199.805	RTE 136		950			EBL INTERMITTENT AND WBL SOLID
199.805	199.845	RTE 136	60				
199.845	199.991	RTE 136		964			EBL SOLID AND WBL INTERMITTENT
199.991	200.403	RTE 136			4351		
200.403	200.579	RTE 136		1162			EBL INTERMITTENT AND WBL SOLID
200.579	200.641	RTE 136	90				
200.641	200.801	RTE 136		1056			EBL SOLID AND WBL INTERMITTENT
200.801	201.601	RTE 136			8448		
201.601	201.723	RTE 136		805			EBL INTERMITTENT AND WBL SOLID
201.723	202.198	RTE 136			5016		
202.198	202.461	RTE 136		1736			EBL INTERMITTENT AND WBL SOLID
202.461	202.596	RTE 136	180				
202.596	202.741	RTE 136		957			EBL SOLID AND WBL INTERMITTENT
202.741	202.929	RTE 136		1241			EBL INTERMITTENT AND WBL SOLID
202.929	203.111	RTE 136	250				
203.111	203.241	RTE 136		858			EBL INTERMITTENT AND WBL SOLID
203.241	203.692	RTE 136	600				
203.692	204.023	RTE 136		2185			EBL SOLID AND WBL INTERMITTENT
204.023	204.341	RTE 136			3358		
204.341	204.551	RTE 136		1386			EBL INTERMITTENT AND WBL SOLID
193.985	202.819	RTE 136				93,287	BOTH EDGELINES
204.038	204.551	RTE 136				5,417	BOTH EDGELINES
		SUBTOTAL	3,180	30,161	50,847	98,704	
		TOTAL		84,188		98,704	

LOG MILES ARE APPROXIMATE - MATCH EXISTING STRIPING

STATE OF MISSOURI
CHRISTOPHER S. KNAPP
NUMBER PE-2005023325
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED: 5/31/2024

ROUTE	STATE
136	MO
DISTRICT	SHEET NO.
NE	3

COUNTY: SCHUYLER

JOB NO.: JNE0020

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)

SUMMARY OF QUANTITIES

SHEET 2 OF 2

DESIGN DESIGNATION

A.A.D.T - 2024 = 1,995

V = 60 M.P.H

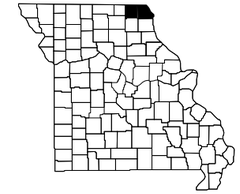
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

PLANS FOR PROPOSED

STATE HIGHWAY

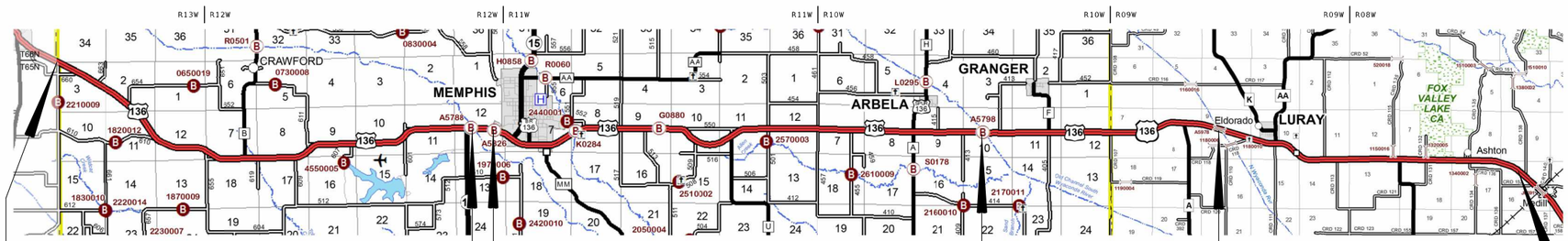
SCOTLAND AND CLARK COUNTIES

T65N, R13W-R08W



KEY MAP

SHOWING LOCATION OF COUNTY



SCHUYLER CO. | SCOTLAND CO.

SCOTLAND CO. | CLARK CO.

BRIDGE A5798 EXCEPTION
LM 224.568 TO LM 224.632

BRIDGE A5788 EXCEPTION
LM 213.841 TO LM 213.949

BRIDGE A5978 EXCEPTION
LM 229.405 TO LM 229.499

BRIDGE A5826 EXCEPTION
LM 214.305 TO LM 214.355

BEG OF PROJECT
LOG MILE 204.551

END OF PROJECT
LOG MILE 235.772

RTE 136
SEAL COAT GRADE A2

1 ½ 0 1 2 3 4
SCALE IN MILES

INDEX OF SHEETS

DESCRIPTION	SHEET NUMBER
TITLE SHEET	1
TYPICAL SECTIONS (TS) (1 SHEET)	2
QUANTITIES (QU) (4 SHEETS)	3

LENGTH OF PROJECT

RTE 136

BEGIN OF PROJECT LOG MILE 204.551

END OF PROJECT LOG MILE 235.772

APPARENT LENGTH MILES 31.221

EQUATIONS AND EXCEPTIONS:

BRIDGE A5788 EXCEPTION 0.108 MILES

BRIDGE A5826 EXCEPTION 0.050 MILES

BRIDGE A5798 EXCEPTION 0.064 MILES

BRIDGE A5978 EXCEPTION 0.095 MILES

TOTAL CORRECTIONS 0.317 MILES

NET LENGTH OF PROJECT 30.904 MILES

STATE LENGTH 30.904 MILES

STATE OF MISSOURI
CHRISTOPHER S. KNAPP
NUMBER PE-2005023325
PROFESSIONAL ENGINEER

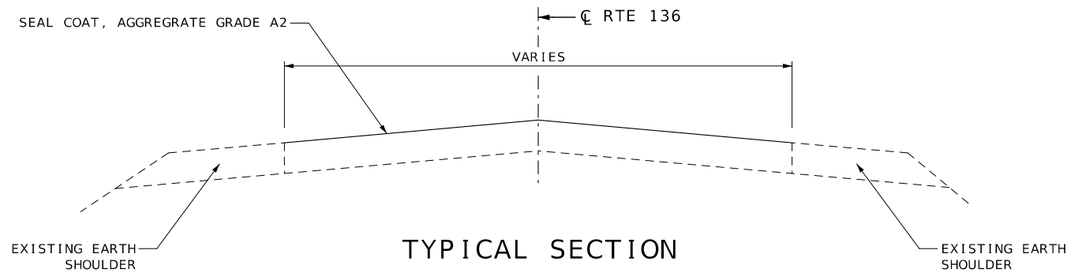
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED	
5/31/2024	
ROUTE 136	STATE MO
DISTRICT NE	SHEET NO. 1
COUNTY SCOTLAND/CLARK	
JOB NO. JNE0021	
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)



TYPICAL SECTION

* LOG MI. 204.551 TO 213.824 - 26'
* LOG MI. 213.824 TO 213.841 - 26-33' †
* LOG MI. 213.949 TO 213.967 - 33-26'
* LOG MI. 213.967 TO 214.277 - 26'
* LOG MI. 214.277 TO 214.305 - 26-35' †
* LOG MI. 214.355 TO 214.380 - 40-26'
* LOG MI. 214.380 TO 214.479 - 26'
* LOG MI. 214.479 TO 215.131 - 30'
* LOG MI. 215.131 TO 215.582 - 36'
* LOG MI. 215.582 TO 224.553 - 26'
* LOG MI. 224.553 TO 224.568 - 26-35' †
* LOG MI. 224.632 TO 224.647 - 35-26'
* LOG MI. 224.647 TO 229.396 - 26'
* LOG MI. 229-396 TO 229.405 - 26-33' †
* LOG MI. 229.499 TO 229.508 - 30-26'
* LOG MI. 229.508 TO 235.772 - 26'

† BRIDGE A5788 EXCEPTION
LOG MI. 213.841 TO 213.949

† BRIDGE A5826 EXCEPTION
LOG MI. 214.305 TO 214.355

† BRIDGE A5798 EXCEPTION
LOG MI. 224.568 TO 224.632

† BRIDGE A5978 EXCEPTION
LOG MI. 229.405 TO 229.499

ESTIMATE FACTORS
PROVIDED FOR INFORMATION PURPOSES ONLY
AGGREGATE APPLICATION RATE 17 LBS/SY
BINDER APPLICATION RATE 0.28 GAL/SY

STATE OF MISSOURI
CHRISTOPHER S. KNAPP
NUMBER PE-2005023325
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED
5/31/2024

ROUTE	STATE
136	MO
DISTRICT	SHEET NO.
NE	2

COUNTY
SCOTLAND/CLARK

JOB NO.
JNE0021

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)

TYPICAL SECTION
SHEET 1 OF 1
NOT TO SCALE

SEAL COAT QUANTITIES

LOG MILE	LOG MILE	LOCATION	LENGTH (MI)	WIDTH (FT)	SEAL COAT AGGREGATE, GRADE A2 (SY)	EMULSIFIED ASPHALT, SEAL COAT (GAL)	REMARKS
204.551	213.824	RTE 136	9.273	26	141,444.2	39,604.4	
213.824	213.841	RTE 136	0.017	26-33	294.2	82.4	BRIDGE A5788
213.949	213.967	RTE 136	0.018	33-26	311.5	87.2	
213.967	214.277	RTE 136	0.310	26	4,728.5	1,324.0	
214.277	214.305	RTE 136	0.028	26-35	501.0	140.3	BRIDGE A5826
214.355	214.380	RTE 136	0.025	40-26	484.0	135.5	
214.380	214.479	RTE 136	0.099	26	1,510.1	422.8	
214.479	215.131	RTE 136	0.652	30	11,475.2	3,213.1	
215.131	215.582	RTE 136	0.451	36	9,525.1	2,667.0	
215.582	224.553	RTE 136	8.971	26	136,837.7	38,314.6	
224.553	224.568	RTE 136	0.015	26-35	268.4	75.2	BRIDGE A5798
224.632	224.647	RTE 136	0.015	35-26	268.4	75.2	
224.647	229.396	RTE 136	4.749	26	72,438.1	20,282.7	
229.396	229.405	RTE 136	0.009	26-33	155.8	43.6	BRIDGE A5978
229.499	229.508	RTE 136	0.009	30-26	147.8	41.4	
229.508	235.772	RTE 136	6.264	26	95,546.9	26,753.1	
				TOTAL	475,936.9	133,262.5	
				USE	475,937	133,270	

FACTOR USED FOR EMULSIFIED ASPHALT = 0.28 GALLONS/S.Y.

MOBILIZATION

1 LUMP SUM

TRAFFIC CONTROL DEVICES

QTY	DESCRIPTION
100	CHANNELIZERS (TRIM-LINE)

NOTE: FOR INFORMATIONAL PURPOSES ONLY.
SEE LUMP SUM PAY ITEM

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 32 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	32	512.00	NO CENTER LINE
53	G020-4	36 X 18	4.50	3	13.50	PILOT CAR FOLLOW ME
57	W08-7a	36 X 36	9.00	64	576.00	FRESH OIL/LOOSE GRAVEL
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 - 10 TOTAL						
2	W020-1	48 X 48	16.00	10	160.00	ROAD WORK AHEAD
8	W020-7a	48 X 48	16.00	10	160.00	FLAGGER (SYMBOL)
11	W03-4	48 X 48	16.00	10	160.00	BE PREPARED TO STOP
58	G020-4a	18 X 12	1.50	10	15.00	PILOT CAR IN USE WAIT & FOLLOW
SIDE ROAD PACKAGE - STATE ROUTE - 11 TOTAL						
2	W020-1	48 X 48	16.00	11	176.00	ROAD WORK AHEAD
8	W020-7a	48 X 48	16.00	11	176.00	FLAGGER (SYMBOL)
11	W03-4	48 X 48	16.00	11	176.00	BE PREPARED TO STOP
58	G020-4a	42 X 30	8.75	11	96.25	PILOT CAR IN USE WAIT & FOLLOW
				TOTAL	2513.51	

NOTE: FOR INFORMATIONAL PURPOSES ONLY. SEE LUMP SUM PAY ITEM

REFER TO STD. PLANS 616.20 FOR TEMPORARY TRAFFIC CONTROL PLANS
REFER TO STD. PLAN 616.10 FOR SIGN AND SIGN MOUNTING REQUIREMENTS
MOBILE OPERATION TMA'S ARE CONSIDERED INCIDENTAL TO CONSTRUCTION

LUMP SUM TEMPORARY TRAFFIC CONTROL

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

NOTE: ALL TRAFFIC CONTROL ARE INCLUDED IN PAY ITEM 616-99.01, LUMP SUM TEMPORARY TRAFFIC CONTROL UNLESS NOTED OTHERWISE IN THE PLANS. THESE QUANTITIES ARE ONLY AN ESTIMATE & ARE SUBJECT TO CHANGE BASED UPON FIELD CONDITIONS.

W08-7a

57

NOTE: FRESH OIL/LOOSE GRAVEL SIGN SHALL BE PLACED AT THE START OF THE PROJECT AT ONE MILE INTERVALS. SIGNS SHOULD ALSO BE INSTALLED WITHIN 150 FT. AFTER THE INTERSECTION OF A STATE ROUTE. ADDITIONAL SIGNS MAY BE INSTALLED WITHIN 150 FT. AFTER OTHER INTERSECTIONS, AS DIRECTED BY ENGINEER.

STATE OF MISSOURI
CHRISTOPHER S. KNAPP
NUMBER PE-2005023325
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED 6/17/2024

ROUTE	STATE
136	MO
DISTRICT	SHEET NO.
NE	3

COUNTY: SCOTLAND/CLARK
JOB NO.: JNE0021
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)

SUMMARY OF QUANTITIES
SHEET 1 OF 4

PAVEMENT MARKINGS SHEET 1

LOG MILE	LOG MILE	LOCATION	STANDARD WATERBORNE PAINT, TYPE P BEADS				REMARKS
			4" YELLOW INTERMITTENT CENTERLINE (LF)	4" YELLOW SOLID/INTERMITTENT CENTERLINE (LF)	4" YELLOW DOUBLE SOLID CENTERLINE (LF)	4" WHITE SOLID EDGELINE (LF)	
204.551	204.586	RTE 136		231			EBL SOLID AND WBL INTERMITTENT
204.586	205.031	RTE 136	590				
205.031	205.144	RTE 136		746			EBL SOLID AND WBL INTERMITTENT
205.144	205.234	RTE 136	120				
205.234	205.338	RTE 136		686			EBL INTERMITTENT AND WBL SOLID
205.338	205.383	RTE 136	60				
205.383	205.515	RTE 136		871			EBL SOLID AND WBL INTERMITTENT
205.515	205.576	RTE 136	90				
205.576	205.698	RTE 136		805			EBL INTERMITTENT AND WBL SOLID
205.698	205.739	RTE 136	60				
205.739	205.932	RTE 136		1274			EBL SOLID AND WBL INTERMITTENT
205.932	206.077	RTE 136			1531		
206.077	206.270	RTE 136		1274			EBL INTERMITTENT AND WBL SOLID
206.270	206.317	RTE 136	70				
206.317	206.505	RTE 136		1241			EBL SOLID AND WBL INTERMITTENT
206.505	206.567	RTE 136			655		
206.567	206.749	RTE 136		1201			EBL INTERMITTENT AND WBL SOLID
206.749	206.774	RTE 136	40				
206.774	206.964	RTE 136		1254			EBL SOLID AND WBL INTERMITTENT
206.964	207.244	RTE 136			2957		
207.244	207.330	RTE 136		568			EBL INTERMITTENT AND WBL SOLID
207.330	207.434	RTE 136			1098		
207.434	207.535	RTE 136		667			EBL SOLID AND WBL INTERMITTENT
207.535	207.759	RTE 136			2365		
207.759	207.868	RTE 136		719			EBL INTERMITTENT AND WBL SOLID
207.868	207.955	RTE 136			919		
207.955	208.055	RTE 136		660			EBL SOLID AND WBL INTERMITTENT
208.055	208.573	RTE 136			5470		
208.573	208.767	RTE 136		1280			EBL INTERMITTENT AND WBL SOLID
208.767	208.914	RTE 136	200				
208.914	209.096	RTE 136		1201			EBL SOLID AND WBL INTERMITTENT
209.096	209.248	RTE 136		1003			EBL INTERMITTENT AND WBL SOLID
209.248	209.296	RTE 136			507		
209.296	209.435	RTE 136		917			EBL SOLID AND WBL INTERMITTENT
209.435	209.511	RTE 136			803		
209.511	209.692	RTE 136		1195			EBL INTERMITTENT AND WBL SOLID
209.692	209.937	RTE 136	330				
209.937	210.136	RTE 136		1313			EBL SOLID AND WBL INTERMITTENT
210.136	210.258	RTE 136			1288		
210.258	210.354	RTE 136		634			EBL INTERMITTENT AND WBL SOLID
210.354	210.461	RTE 136			1130		
210.461	210.546	RTE 136		561			EBL SOLID AND WBL INTERMITTENT
210.546	210.995	RTE 136			4741		
210.995	211.180	RTE 136		1221			EBL INTERMITTENT AND WBL SOLID
211.180	211.215	RTE 136	50				
211.215	211.401	RTE 136		1228			EBL SOLID AND WBL INTERMITTENT
211.401	211.829	RTE 136			4520		
211.829	211.919	RTE 136		594			EBL INTERMITTENT AND WBL SOLID
211.919	212.013	RTE 136			993		
212.013	212.102	RTE 136		587			EBL SOLID AND WBL INTERMITTENT
212.102	212.735	RTE 136			6684		
212.735	212.870	RTE 136		891			EBL INTERMITTENT AND WBL SOLID
212.870	212.932	RTE 136			655		
212.932	213.036	RTE 136		686			EBL SOLID AND WBL INTERMITTENT
213.036	213.048	RTE 136	20				
213.048	213.222	RTE 136		1148			EBL INTERMITTENT AND WBL SOLID
213.222	213.681	RTE 136	610				
213.681	213.841	RTE 136		1056			EBL SOLID AND WBL INTERMITTENT
213.841	213.994	RTE 136			1616		
213.994	214.074	RTE 136		528			EBL SOLID AND WBL INTERMITTENT
214.074	214.084	RTE 136			106		
214.084	214.276	RTE 136		1267			EBL INTERMITTENT AND WBL SOLID
SUBTOTAL SHEET 1			2,240	29,507	38,038	0	

LOG MILES ARE APPROXIMATE - MATCH EXISTING STRIPING

STATE OF MISSOURI
CHRISTOPHER S. KNAPP
NUMBER PE-2005023325
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED
5/31/2024

ROUTE	STATE
136	MO
DISTRICT	SHEET NO.
NE	3

COUNTY
SCOTLAND/CLARK

JOB NO.
JNE0021

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)

SUMMARY OF QUANTITIES
SHEET 2 OF 4

PAVEMENT MARKINGS SHEET 2

LOG MILE	LOG MILE	LOCATION	STANDARD WATERBORNE PAINT, TYPE P BEADS: 4" YELLOW INTERMITTENT CENTERLINE (LF)	4" YELLOW SOLID/INTERMITTENT CENTERLINE (LF)	4" YELLOW DOUBLE SOLID CENTERLINE (LF)	4" WHITE SOLID EDGELINE (LF)	REMARKS
214.276	214.437	RTE 136		1063			EBL SOLID AND WBL INTERMITTENT
214.437	214.552	RTE 136			1214		
214.552	214.714	RTE 136		1069			EBL INTERMITTENT ABD WBL SOLID
214.714	215.301	RTE 136	780				
215.301	215.507	RTE 136		1360			EBL SOLID AND WBL INTERMITTENT
215.507	215.654	RTE 136			1552		
215.654	215.746	RTE 136		607			EBL INTERMITTENT AND WBL SOLID
215.746	215.843	RTE 136			1024		
215.843	215.939	RTE 136		634			EBL SOLID AND WBL INTERMITTENT
215.939	216.698	RTE 136			8015		
216.698	216.828	RTE 136		858			EBL INTERMITTENT AND WBL SOLID
216.828	216.874	RTE 136			486		
216.874	217.014	RTE 136		924			EBL SOLID AND WBL INTERMITTENT
217.014	217.135	RTE 136			1278		
217.135	217.317	RTE 136		1201			EBL INTERMITTENT AND WBL SOLID
217.317	217.355	RTE 136	60				
217.355	217.510	RTE 136		1023			EBL SOLID AND WBL INTERMITTENT
217.510	217.699	RTE 136		1247			EBL INTERMITTENT AND WBL SOLID
217.699	217.925	RTE 136	300				
217.925	218.118	RTE 136		1274			EBL SOLID AND WBL INTERMITTENT
218.118	219.182	RTE 136			11236		
219.182	219.371	RTE 136		1247			EBL INTERMITTENT AND WBL SOLID
219.371	219.474	RTE 136	140				
219.474	219.665	RTE 136		1261			EBL SOLID AND WBL INTERMITTENT
219.665	219.935	RTE 136			2851		
219.935	220.119	RTE 136		1214			EBL INTERMITTENT AND WBL SOLID
220.119	220.411	RTE 136	390				
220.411	220.618	RTE 136		1366			EBL SOLID AND WBL INTERMITTENT
220.618	220.740	RTE 136			1288		
220.740	220.846	RTE 136		700			EBL INTERMITTENT AND WBL SOLID
220.846	220.928	RTE 136			866		
220.928	221.038	RTE 136		726			EBL SOLID AND WBL INTERMITTENT
221.038	221.650	RTE 136			6463		
221.650	221.843	RTE 136		1274			EBL INTERMITTENT AND WBL SOLID
221.843	221.893	RTE 136	70				
221.893	222.092	RTE 136		1313			EBL SOLID AND WBL INTERMITTENT
222.092	222.185	RTE 136			982		
222.185	222.409	RTE 136		1478			EBL INTERMITTENT AND WBL SOLID
222.409	222.569	RTE 136		1056			EBL SOLID AND WBL INTERMITTENT
222.569	222.833	RTE 136			2788		
222.833	222.952	RTE 136		785			EBL INTERMITTENT AND WBL SOLID
222.952	223.015	RTE 136			665		
223.015	223.130	RTE 136		759			EBL SOLID AND WBL INTERMITTENT
223.130	223.652	RTE 136			5512		
223.652	223.816	RTE 136		1082			EBL INTERMITTENT AND WBL SOLID
223.816	223.852	RTE 136			380		
223.852	224.013	RTE 136		1063			EBL SOLID AND WBL INTERMITTENT
224.013	224.206	RTE 136		1274			EBL INTERMITTENT AND WBL SOLID
224.206	224.908	RTE 136	930				
224.908	225.107	RTE 136		1313			EBL SOLID AND WBL INTERMITTENT
225.107	225.433	RTE 136			3443		
225.433	225.552	RTE 136		785			EBL INTERMITTENT AND WBL SOLID
225.552	225.600	RTE 136			507		
225.600	225.717	RTE 136		772			EBL SOLID AND WBL INTERMITTENT
225.717	225.750	RTE 136			348		
225.750	225.835	RTE 136		561			EBL INTERMITTENT AND WBL SOLID
225.835	225.925	RTE 136			950		
225.925	226.009	RTE 136		554			EBL SOLID AND WBL INTERMITTENT
226.009	226.094	RTE 136			898		
226.094	226.260	RTE 136		1096			EBL INTERMITTENT AND WBL SOLID
SUBTOTAL SHEET 2			2,670	32,939	52,746	0	

LOG MILES ARE APPROXIMATE - MATCH EXISTING STRIPING

STATE OF MISSOURI
CHRISTOPHER S. KNAPP
NUMBER PE-2005023325
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED: 5/31/2024

ROUTE	STATE
136	MO
DISTRICT: NE	SHEET NO.: 3

COUNTY: SCOTLAND/CLARK

JOB NO.: JNE0021

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)

SUMMARY OF QUANTITIES
SHEET 3 OF 4

PAVEMENT MARKINGS SHEET 3

LOG MILE	LOG MILE	LOCATION	STANDARD WATERBORNE PAINT, TYPE P BEADS: 4" YELLOW INTERMITTENT CENTERLINE (LF)	4" YELLOW SOLID/INTERMITTENT CENTERLINE (LF)	4" YELLOW DOUBLE SOLID CENTERLINE (LF)	4" WHITE SOLID EDGELINE (LF)	REMARKS
226.260	226.286	RTE 136			275		
226.286	226.447	RTE 136		1063			EBL SOLID AND WBL INTERMITTENT
226.447	226.778	RTE 136			3495		
226.778	226.895	RTE 136		772			EBL INTERMITTENT AND WBL SOLID
226.895	226.961	RTE 136			697		
226.961	227.062	RTE 136		667			EBL SOLID AND WBL INTERMITTENT
227.062	227.113	RTE 136			539		
227.113	227.217	RTE 136		686			EBL INTERMITTENT AND WBL SOLID
227.217	227.289	RTE 136			760		
227.289	227.306	RTE 136		112			EBL SOLID AND WBL INTERMITTENT
227.306	227.342	RTE 136	50				
227.342	227.506	RTE 136		1082			EBL INTERMITTENT AND WBL SOLID
227.506	227.520	RTE 136			148		
227.520	227.677	RTE 136		1036			EBL SOLID AND WBL INTERMITTENT
227.677	227.946	RTE 136			2841		
227.946	228.129	RTE 136		1208			EBL INTERMITTENT AND WBL SOLID
228.129	228.201	RTE 136	100				
228.201	228.362	RTE 136		1063			EBL SOLID AND WBL INTERMITTENT
228.362	228.420	RTE 136			612		
228.420	228.560	RTE 136		924			EBL INTERMITTENT AND WBL SOLID
228.560	228.623	RTE 136			665		
228.623	228.739	RTE 136		766			EBL SOLID AND WBL INTERMITTENT
228.739	229.002	RTE 136			2777		
229.002	229.217	RTE 136		1419			EBL INTERMITTENT AND WBL SOLID
229.217	229.858	RTE 136	850				
229.858	230.067	RTE 136		1379			EBL SOLID AND WBL INTERMITTENT
230.067	231.509	RTE 136			15228		
231.509	231.694	RTE 136		1221			EBL INTERMITTENT AND WBL SOLID
231.694	233.202	RTE 136	2,000				
233.202	233.376	RTE 136		1148			EBL SOLID AND WBL INTERMITTENT
233.376	233.394	RTE 136	30				
233.394	233.529	RTE 136		891			EBL INTERMITTENT AND WBL SOLID
233.529	233.564	RTE 136			370		
233.564	233.745	RTE 136		1195			EBL SOLID AND WBL INTERMITTENT
233.745	233.905	RTE 136		1056			EBL INTERMITTENT AND WBL SOLID
233.905	234.267	RTE 136	480				
234.267	234.426	RTE 136		1049			EBL SOLID AND WBL INTERMITTENT
234.426	234.460	RTE 136	50				
234.460	234.527	RTE 136		442			EBL INTERMITTENT AND WBL SOLID
234.527	234.622	RTE 136			1003		
234.622	234.716	RTE 136		620			EBL SOLID AND WBL INTERMITTENT
234.716	234.730	RTE 136	20				
234.730	234.891	RTE 136		1063			EBL INTERMITTENT AND WBL SOLID
234.891	234.987	RTE 136	130				
234.987	235.198	RTE 136		1393			EBL SOLID AND WBL INTERMITTENT
235.198	235.317	RTE 136		785			EBL INTERMITTENT AND WBL SOLID
235.317	235.383	RTE 136			697		
235.383	235.496	RTE 136		746			EBL SOLID AND WBL INTERMITTENT
235.496	235.619	RTE 136			1299		
235.619	235.768	RTE 136		983			EBL INTERMITTENT AND WBL SOLID
204.551	214.454	RTE 136				104576	BOTH EDGELINES
215.558	235.768	RTE 136				213418	BOTH EDGELINES
204.551	235.768	RTE 136				-2545	EDGELINE EXCEPTIONS
SUBTOTAL SHEET 3			3,710	24,769	31,406	315,449	
SUBTOTAL SHEET 1			2,240	29,507	38,038	0	
SUBTOTAL SHEET 2			2,670	32,939	52,746	0	
TOTAL			218,025			315,449	

LOG MILES ARE APPROXIMATE - MATCH EXISTING STRIPING

STATE OF MISSOURI
CHRISTOPHER S. KNAPP
NUMBER PE-2005023325
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED	
5/31/2024	
ROUTE 136	STATE MO
DISTRICT NE	SHEET NO. 3
COUNTY SCOTLAND/CLARK	
JOB NO. JNE0021	
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)

SUMMARY OF QUANTITIES
SHEET 4 OF 4