

DESIGN SELECTION

MO 49 - S/O 21

A.A.D.T. - 2025 = 1,270
A.A.D.T. - 2045 = 1,403
D.H.V. = 8.40%
T = 8.21%
V = 30 & 55 M.P.H.

MO 49 - N/O BB

A.A.D.T. - 2025 = 1,464
A.A.D.T. - 2045 = 1,617
D.H.V. = 9.09%
T = 9.47%
V = 55 M.P.H.

MO 49 - S/O BB

A.A.D.T. - 2025 = 1,093
A.A.D.T. - 2045 = 1,208
D.H.V. = 9.76%
T = 7.39%
V = 45 & 55 M.P.H.

MO 49 - S/O CC

A.A.D.T. - 2025 = 1,450
A.A.D.T. - 2045 = 1,602
D.H.V. = 8.56%
T = 11.42%
V = 50 & 55 M.P.H.

FUNCTIONAL CLASSIFICATION- MINOR ARTERIAL

NO NEW R/W

CONVENTIONAL SYMBOLS (USED IN PLANS)		
	EXISTING	NEW
BUILDINGS AND STRUCTURES		
GUARD RAIL		
GUARD CABLE		

CONCRETE RIGHT-OF-WAY MARKER		
STEEL RIGHT-OF-WAY MARKER		
LOCATION SURVEY MARKER		
UTILITIES		
FIBER OPTICS		
OVERHEAD CABLE TV		
UNDERGROUND CABLE TV		
OVERHEAD TELEPHONE		

UNDERGROUND TELEPHONE	- UT -	UT
OVERHEAD POWER	- OE -	OE
UNDERGROUND POWER	- UE -	UE
SANITARY SEWER	- S -	S
STORM SEWER	- SS -	SS
GAS	- G -	G
WATER	- W -	W

MANHOLE	
FIRE HYDRANT	
WATER VALVE	
WATER METER	
DROP INLET	
DITCH BLOCK	
GROUND MOUNTED SIGN	
LIGHT POLE	
H-FRAME POWER POLE	
TELEPHONE PEDESTAL	
FENCE	
CHAIN LINK	
WOVEN WIRE	
GATE POST	
BENCHMARK	

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

PLANS FOR PROPOSED

STATE HIGHWAY

IRON/WAYNE COUNTY

LM 58.108

LM 58.108

SCRUB SEAL
TREATMENT
(EXCEPT MILL/FILL
IN ANNAPOLIS)

LM 75.440

SHOULDER WIDENING
WITH SCRUB SEAL
TREATMENT
(EXCEPT WIDENING
WITH OVERLAY
NEAR PIEDMONT)

LM 86.939

LM 86.939

PROJECT
LIMITS
MO 49

KEY MAP

LOCATION OF IRON/WAYNE COUNTY

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

INDEX OF SHEETS	
DESCRIPTION	SHEET NUMBER
TITLE SHEET	1
TYPICAL SECTIONS (TS) (5 SHEETS)--	2
QUANTITIES (QU) (5 SHEETS)-----	3
SPECIAL SHEETS (SS)-----	4-10
EROSION CONTROL SHEETS (EC)-----	11-13

LENGTH OF PROJECT

BEGINNING OF PROJECT	LOG MILE 58.108
END OF PROJECT	LOG MILE 86.939
APPARENT LENGTH	28.831 MILES
EQUATIONS AND EXCEPTIONS:	
BR A8672	LM 70.040 TO 70.109
BR G0878	LM 70.296 TO 70.330
BR A9280	LM 73.030 TO 73.100
BR A8492	LM 82.105 TO 82.130
TOTAL CORRECTIONS	-0.198 MILES
NET LENGTH OF PROJECT	28.633 MILES
STATE LENGTH	28.633 MILES
FOR INFORMATION ONLY	
ESTIMATED DISTURBED ACRES	27.9 ACRES





BR F0644	- LOG MILE	61.395
BR F0646	- LOG MILE	64.022
BR F0647	- LOG MILE	64.818
BR G0570	- LOG MILE	69.282
BR G0568	- LOG MILE	69.621



LOG MILE	58.108	TO	58.506
LOG MILE	62.080	TO	62.250
LOG MILE	65.090	TO	65.710
LOG MILE	67.170	TO	67.900
LOG MILE	69.882	TO	70.040
LOG MILE	70.109	TO	70.296



LOG MILE	58.506	TO	62.080
LOG MILE	62.250	TO	65.090
LOG MILE	65.710	TO	67.170
LOG MILE	68.848	TO	69.882
LOG MILE	70.330	TO	73.030
LOG MILE	73.100	TO	75.440

ESTIMATE FACTORS FOR PAVEMENT TREATMENT	
SCRUB SEAL EMULSION	0.25 GAL/SY
FOR INFORMATIONAL PURPOSES ONLY	

(1) MATCH EXISTING TRAVELWAY CROSS-SLOPE

DRAWING NOT TO SCALE.

TYPICAL SECTIONS - SCRUB SEAL



JACOB CAPEDE - CIVIL
MC-PE-2018021161

DATE PREPARED

2/28/2025

ROUTE	STATE
40	MO

49	MO
DISTRICT	SHEET NO

SE 2

COUNTY	
--------	--

IRON / WAYNE

JOB NO.
1000706

J9P3796

CONTRACT ID.

PROJECT NO.

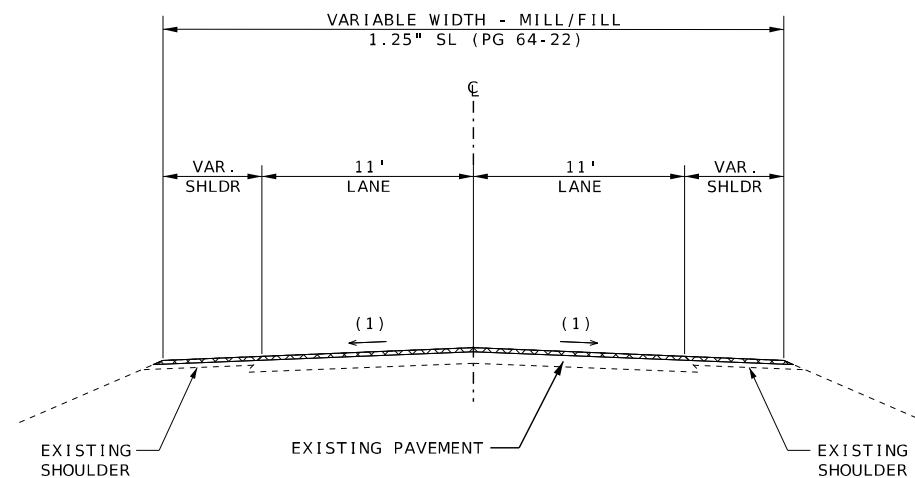
Table 1

BRIDGE NO.

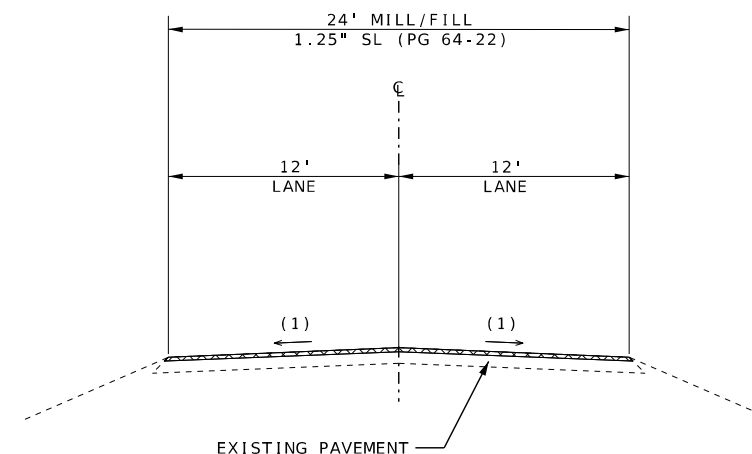
[illegible]MISSOURI HIGHWAYS AND TRANSPORTATION
COMMISSIONWAYS AND TIMES
COMMISSION

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

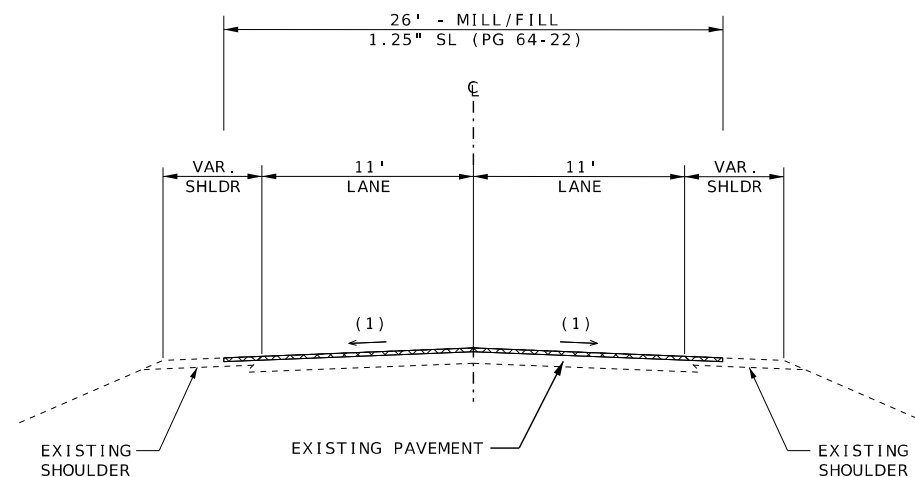
TYPICAL SECTIONS
SHEET 1 OF 4



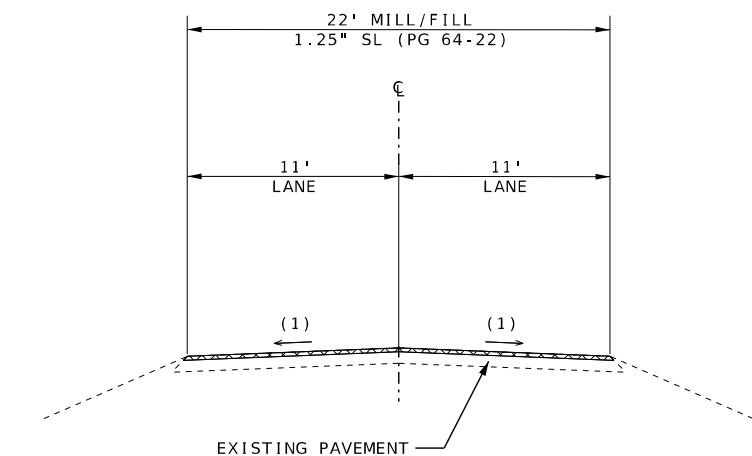
SECTION ON TANGENT
PROPOSED TYPICAL SECTION RTE 49
 LOG MILE 67.900 TO 67.990
 (SEE SPECIAL SHEET FOR DETAILS)



SECTION ON TANGENT
PROPOSED TYPICAL SECTION RTE 49
 LOG MILE 67.990 TO 68.190
 (SEE SPECIAL SHEET FOR DETAILS)



SECTION ON TANGENT
PROPOSED TYPICAL SECTION RTE 49
 LOG MILE 68.190 TO 68.500
 (SEE SPECIAL SHEET FOR DETAILS)



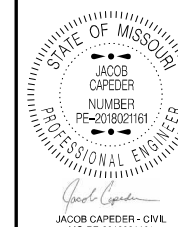
SECTION ON TANGENT
PROPOSED TYPICAL SECTION RTE 49
 LOG MILE 68.500 TO 68.848
 (SEE SPECIAL SHEET FOR DETAILS)

ESTIMATE FACTORS FOR ASPHALTIC MIXTURES	
PG 64-22 (SL)	2.034 TONS/CY
TACK COAT	0.10 GAL/SY
FOR INFORMATIONAL PURPOSES ONLY	

(1) MATCH EXISTING TRAVELWAY CROSS-SLOPE

DRAWING NOT TO SCALE.

TYPICAL SECTIONS - ANNAPOLIS MILL/FILL



DATE PREPARED
2/28/2025

ROUTE 49	STATE MO
DISTRICT SE	SHEET NO. 2

COUNTY
IRON/WAYNE

JOB NO.
J9P3796

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

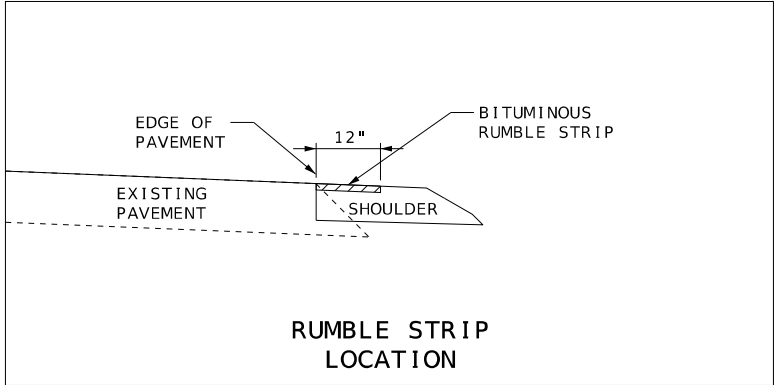
DESCRIPTION	DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL
 JEFFERSON CITY, MO 65102
 1-888-ASK-MODOT (1-888-273-6636)

TYPICAL SECTIONS
SHEET 2 OF 4

- (1) MATCH EXISTING TRAVELWAY CROSS-SLOPE
- (2) MATCH EXISTING SLOPE (NOT TO EXCEED 2.5:1, EXCEPT AS APPROVED BY ENGINEER)
- (3) THE BACKSLOPE SHALL BE EXCAVATED ONLY TO THE EXTENT NECESSARY TO CONFORM WITH THE LINES AND GRADES OF THE TYPICAL SECTION. THE BACKSLOPE SHALL NOT BE EXCAVATED FOR THE SOLE PURPOSE OF GENERATING EMBANKMENT MATERIAL.
- (4) THE DITCH SHALL BE GRADED TO MAINTAIN THE EXISTING DRAINAGE PATTERN. IF 2.5:1 (STEEPEST ALLOWED) FORESLOPE FILLS IN THE EXISTING DITCH, THEN A NEW DITCH SHALL BE CONSTRUCTED AS DIRECTED BY THE ENGINEER. IF A NEW DITCH CANNOT BE CONSTRUCTED DUE TO SITE CONSTRAINTS, THEN THE SLOPES MAY BE STEEPENED TO 2:1 WITH APPROVAL FROM THE ENGINEER TO MAINTAIN EXISTING DRAINAGE PATTERNS.



ESTIMATE FACTORS FOR ASPHALTIC MIXTURES	
PG 64-22 (BP-1)	2.040 TONS/CY
TACK COAT (FACE AT EDGE)	0.12 GAL/SY
FOR INFORMATIONAL PURPOSES ONLY	

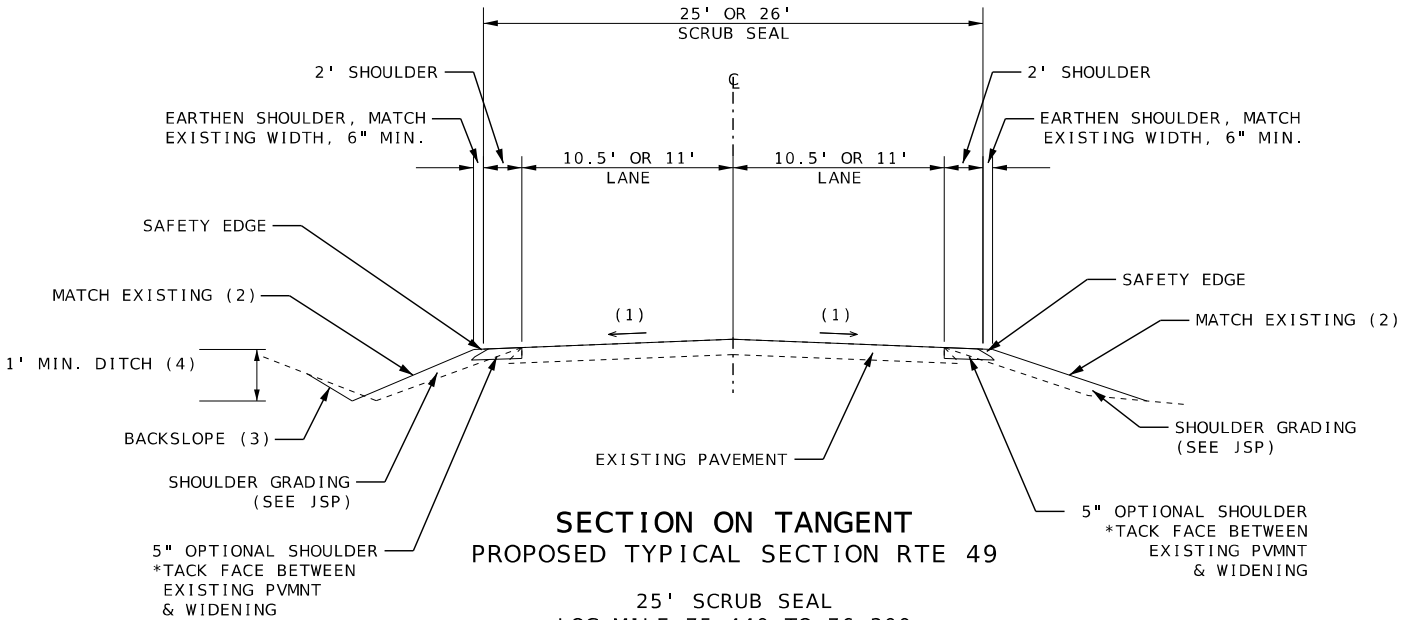
ESTIMATE FACTORS FOR PAVEMENT TREATMENT	
SCRUB SEAL EMULSION	0.25 GAL/SY
FOR INFORMATIONAL PURPOSES ONLY	

NOTE:

PROVIDE CLEAN STRAIGHT EDGE FOR NEW SHOULDER BASE TO BE PLACED NEXT TO AT NO DIRECT PAY. METHOD TO PROVIDE CLEAN STRAIGHT EDGE SHALL BE APPROVED BY ENGINEER PRIOR TO BEGINNING OPERATION.

OPTIONAL SHOULDER CONSIST OF:
5" PG 64-22 (BP-1), OR
5" ROLLER COMPACTED CONCRETE (RCC)

DRAWING NOT TO SCALE. FOLLOW DIMENSIONS.

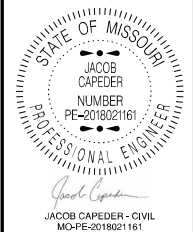


25' SCRUB SEAL
LOG MILE 75.440 TO 76.300

26' SCRUB SEAL
LOG MILE 76.300 TO 80.221
LOG MILE 80.298 TO 82.105
LOG MILE 82.130 TO 85.760

SEE SPECIAL SHEET 2
LOG MILE 80.221 TO 80.298

TYPICAL SECTIONS - SCRUB SEAL & WIDENING



DATE PREPARED 2/28/2025	
ROUTE 49	STATE MO
DISTRICT SE	SHEET NO. 2
COUNTY IRON/WAYNE	
JOB NO. J9P3796	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

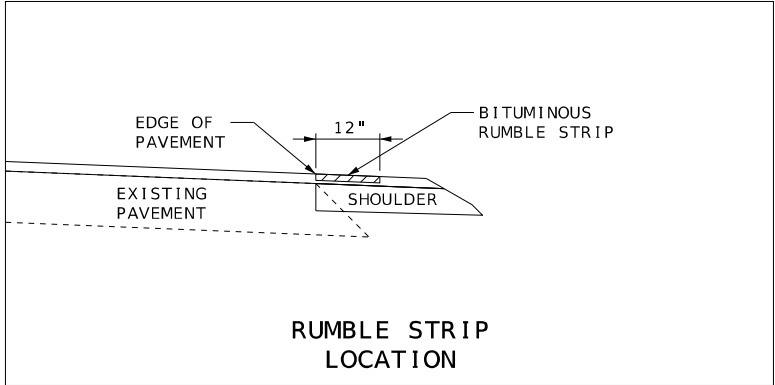
DESCRIPTION	DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-273-6636)

TYPICAL SECTIONS
SHEET 3 OF 4

- (1) MATCH EXISTING TRAVELWAY CROSS-SLOPE
- (2) MATCH EXISTING SLOPE (NOT TO EXCEED 2.5:1, EXCEPT AS APPROVED BY ENGINEER)
- (3) THE BACKSLOPE SHALL BE EXCAVATED ONLY TO THE EXTENT NECESSARY TO CONFORM WITH THE LINES AND GRADES OF THE TYPICAL SECTION. THE BACKSLOPE SHALL NOT BE EXCAVATED FOR THE SOLE PURPOSE OF GENERATING EMBANKMENT MATERIAL.
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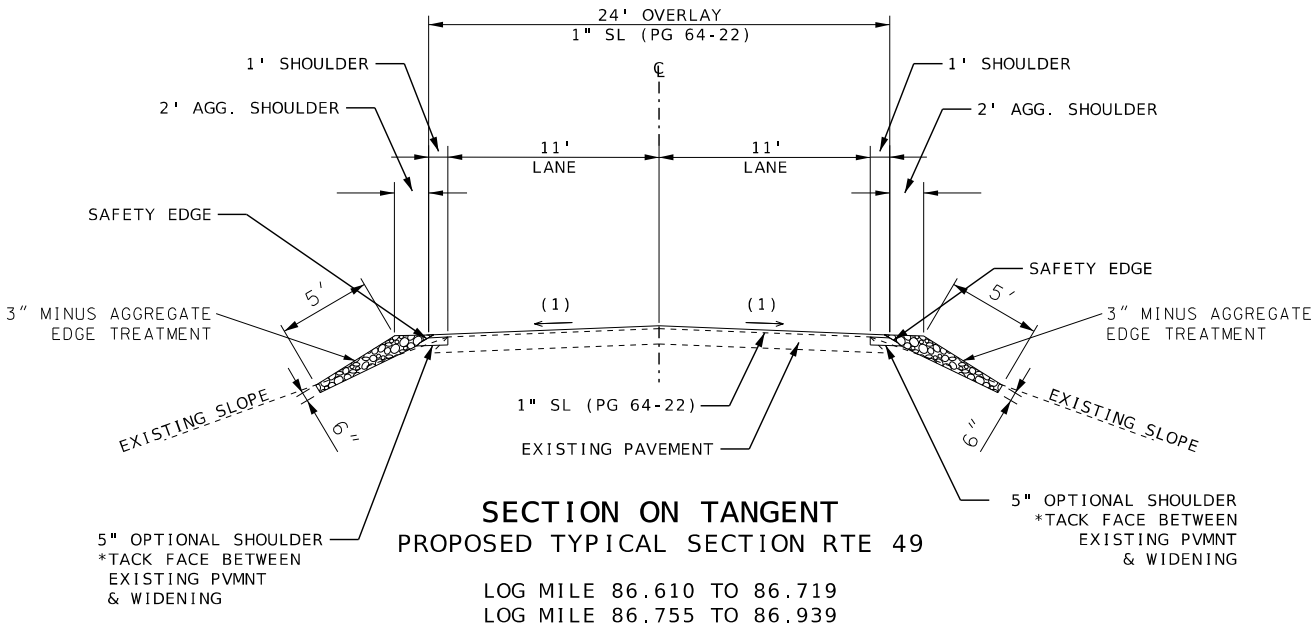
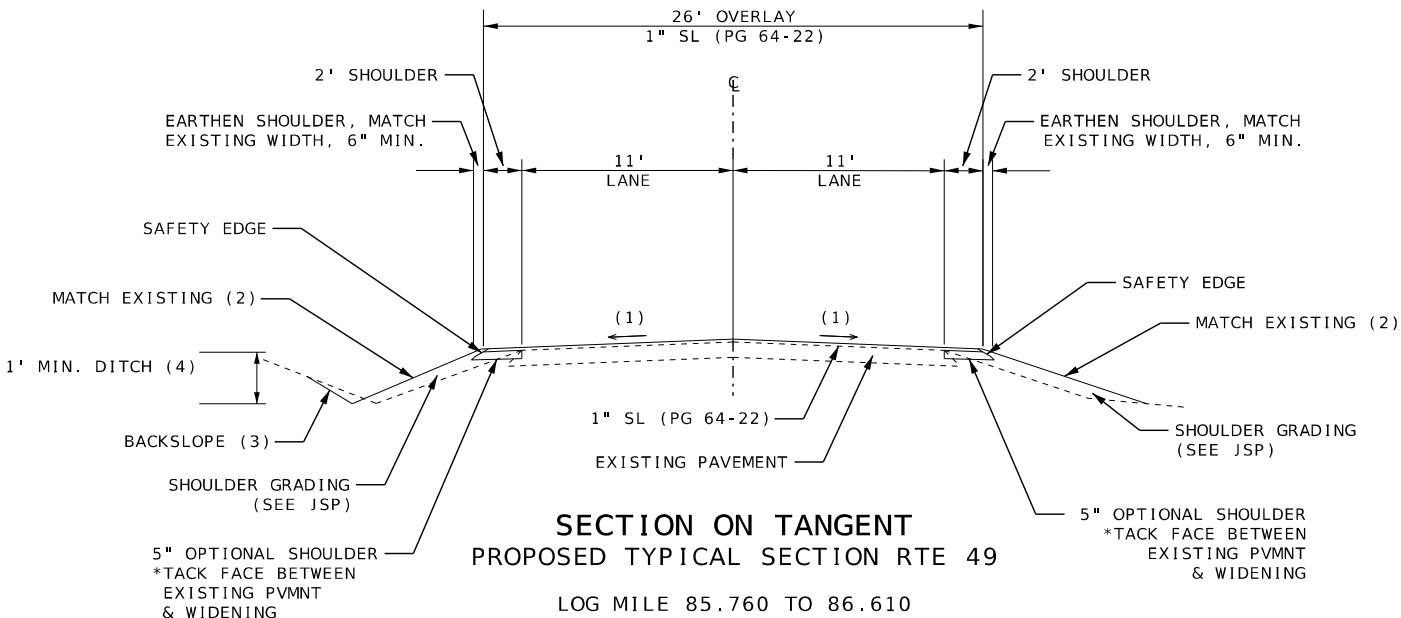
ESTIMATE FACTORS FOR ASPHALTIC MIXTURES	
PG 64-22 (SL)	2.034 TONS/CY
PG 64-22 (BP-1)	2.04 TONS/CY
TACK COAT (OVERLAY)	0.08 GAL/SY
TACK COAT (FACE AT EDGE)	0.12 GAL/SY
FOR INFORMATIONAL PURPOSES ONLY	

NOTE:

PROVIDE CLEAN STRAIGHT EDGE FOR NEW SHOULDER BASE TO BE PLACED NEXT TO AT NO DIRECT PAY. METHOD TO PROVIDE CLEAN STRAIGHT EDGE SHALL BE APPROVED BY ENGINEER PRIOR TO BEGINNING OPERATION.

OPTIONAL SHOULDER CONSIST OF:
5" PG 64-22 (BP-1), OR
5" ROLLER COMPACTED CONCRETE (RCC)

DRAWING NOT TO SCALE. FOLLOW DIMENSIONS.



TYPICAL SECTIONS - OVERLAY & WIDENING

STATE OF MISSOURI

JACOB CAPEDER

NUMBER PE-2018021161

PROFESSIONAL ENGINEER

DATE PREPARED

2/28/2025

ROUTE

49

STATE

MO

DISTRICT

SE

SHEET NO.

2

COUNTY

IRON/WAYNE

JOB NO.

J9P3796

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION

DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-273-6636)

MoDOT

TYPICAL SECTIONS

SHEET 4 OF 4

002_TS_04-04_J9P3796_i15.dgn 12:43:12 PM 2/28/2025

ESTIMATED EARTHWORK QUANTITY FOR SHOULDER GRADING					
LOCATION	DIR.	LOG MILE (MI)	LOG MILE (MI)	CUT (CY)	FILL (CY)
RTE 49	NB/SB	75.440	86.939	2000 TO 3000	4000 TO 6000
NOTES:				NO DIRECT PAY	NO DIRECT PAY
- ANY EARTHWORK COMPLETED TO BUILD THIS PROJECT WILL BE PAID FOR AS SHOULDER GRADING.					
- ESTIMATED EARTHWORK QUANTITY BASED ON PROPOSED TYPICAL SECTION.					

MAILBOX POSTS				
LOCATION	DIR.	LOG MILE	LOG MILE	WOOD POST 4" X 4" (L.F.)
RTE 49	NB/SB	75.440	86.939	40.0
			TOTAL	40.0
			USE	40
NOTE: LOCATIONS DETERMINED BY ENGINEER.				



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 5

SURFACE TREATMENT											
TREATMENT	LOCATION	DIR.	LOG MILE	LOG MILE	WIDTH	BIT. PVMNT. MIX. (MILL/FILL) PG64-22 (SL)	BIT. PVMNT. MIX. (OVERLAY) PG64-22 (SL)	TACK COAT	MISC. MINERAL AGGREGATE	MISC. SCRUB SEAL EMULSION	OVERLAY DEPTH
			(MI)	(MI)	(FT)	2.034 TONS/CY (TONS)	2.034 TONS/CY (TONS)	0.08* GAL/SY (GAL)	(SQYD)	0.25 GAL/SY (GAL)	(IN)
SCRUB SEAL	LEGS OF RTE 49/21 INT.	NB/SB	58.108	58.210	VARIES	-	-	-	3945	986	-
SCRUB SEAL	RTE 49	NB/SB	58.210	58.506	26	-	-	-	4515	1129	-
SCRUB SEAL	RTE 49	NB/SB	58.506	62.080	22	-	-	-	46128	11532	-
SCRUB SEAL	RTE 49	NB/SB	62.080	62.250	26	-	-	-	2593	648	-
SCRUB SEAL	RTE 49	NB/SB	62.250	65.090	22	-	-	-	36655	9164	-
SCRUB SEAL	RTE 49	NB/SB	65.090	65.710	26	-	-	-	9457	2364	-
SCRUB SEAL	RTE 49	NB/SB	65.710	67.170	22	-	-	-	18844	4711	-
SCRUB SEAL	RTE 49	NB/SB	67.170	67.900	26	-	-	-	11135	2784	-
MILL/FILL	RTE 49	NB/SB	67.900	67.990	VARIES	122.75	-	174	-	-	1.25
MILL/FILL	RTE 49	NB/SB	67.990	68.190	24	198.88	-	282	-	-	1.25
MILL/FILL	RTE 49	NB/SB	68.190	68.225	VARIES	62.43	-	88	-	-	1.25
MILL/FILL	RTE 49	NB/SB	68.225	68.500	26	296.25	-	419	-	-	1.25
MILL/FILL	RTE 49	NB/SB	68.500	68.848	22	317.21	-	449	-	-	1.25
IRREGULARITIES FOR MILL/FILL @ 50 TONS/LANE/MILE	RTE 49	-	67.900	68.848	-	94.80	-	-	-	-	-
SCRUB SEAL	RTE 49	NB/SB	68.848	69.882	22	-	-	-	13345	3336	-
SCRUB SEAL	RTE 49	NB/SB	69.882	70.040	26	-	-	-	2410	603	-
RTE 49 - EXCEPTION - BR A8672	-	-	70.040	70.109	-	-	-	-	-	-	-
SCRUB SEAL	RTE 49	NB/SB	70.109	70.296	26	-	-	-	2852	713	-
RTE 49 - EXCEPTION - BR G0878	-	-	70.296	70.330	-	-	-	-	-	-	-
SCRUB SEAL	RTE 49	NB/SB	70.330	73.030	22	-	-	-	34848	8712	-
RTE 49 - EXCEPTION - BR A9280	-	-	73.030	73.100	-	-	-	-	-	-	-
SCRUB SEAL	RTE 49	NB/SB	73.100	75.440	22	-	-	-	30202	7551	-
SCRUB SEAL	RTE 49	NB/SB	75.440	76.300	25	-	-	-	12613	3153	1.00
SCRUB SEAL	RTE 49	NB/SB	76.300	80.221	26	-	-	-	59808	14952	1.00
RTE 49 - RR TUNNEL (SEE NOTE)	RTE 49	NB/SB	80.221	80.298	24	-	-	-	1084	271	-
SCRUB SEAL	RTE 49	NB/SB	80.298	82.105	26	-	-	-	27563	6891	1.00
RTE 49 - EXCEPTION - BR A8492	-	-	82.105	82.130	-	-	-	-	-	-	-
SCRUB SEAL	RTE 49	NB/SB	82.130	85.760	26	-	-	-	55370	13843	1.00
OVERLAY	RTE 49	NB/SB	85.760	86.610	26	-	732.54	1037	-	-	1.00
OVERLAY	RTE 49	NB/SB	86.610	86.719	24	-	86.71	123	-	-	1.00
BR K0357 (SEE NOTE)	RTE 49	NB/SB	86.719	86.755	22	-	39.38	37	-	-	1.50
OVERLAY	RTE 49	NB/SB	86.755	86.939	24	-	146.38	207	-	-	1.00
OVERLAY	RTE AA	-	-	86.094	VARIES	-	30.94	55	-	-	1.00
OVERLAY	VARIOUS PAVED ENTRANCES	-	85.760	86.939	VARIES	-	15.42	27	-	-	1.00
IRREGULARITIES FOR OVERLAY @ 50 TONS/LANE/MILE	RTE 49	-	85.760	86.939	-	-	117.90	-	-	-	-
SAFETY EDGE FOR OVERLAY (2%)	RTE 49	-	85.760	86.939	-	-	20.10	-	-	-	-
NOTE: - SEE SPECIAL SHEETS FOR TREATMENT AT RR TUNNEL - BR K0357, MATCH EXISTING OVERLAY THICKNESS, ESTIMATED AT 1.5" - LOG MILES ARE APPROXIMATE. REFER TO SPECIAL SHEETS.						SUB-TOTAL	1092.32	1189.37	2898.0	373367.0	93343.0
						+ SUB-TOTAL (PVMNT REPAIRS)	-	-	414.0	-	-
						+ SUB-TOTAL (SHLDR WIDENING)	-	-	799.8	-	-
						TOTAL	2281.7	4111.8	373367.0	93343.0	-
						USE	2281.7	4112	373367	93343	-

* TACK AT 0.10 GAL/SY FOR MILLED SURFACES

PAVEMENT REPAIRS										
LOCATION	DIR.	LOG MILE	LOG MILE	REPAIR LENGTH	REPAIR WIDTH	REPAIR DEPTH	FURNISHING AND PLACING BITUMINOUS MATERIAL FOR CLASS C PARTIAL DEPTH PAVEMENT REPAIR PG 64-22 (BP-1) 2.040 TONS/CY	REMOVAL FOR CLASS C PARTIAL DEPTH PAVEMENT REPAIR	TACK COAT	REMARKS
				(FT)	(FT)	(IN)	(TONS)	(SQYD)	0.10 GAL/SY (GAL)	
RTE 49	NB	72.764	72.859	500	12	2.0	75.3	666.7	67	BENEATH RAILROAD OVERPASS
RTE 49	SB	72.764	72.859	500	12	2.0	75.3	666.7	67	BENEATH RAILROAD OVERPASS
RTE 49	NB	72.969	73.026	300	12	2.0	45.2	400.0	40	NORTH OF NEW BRIDGE
RTE 49	NB	73.096	73.153	300	12	2.0	45.2	400.0	40	SOUTH OF NEW BRIDGE
RTE 49	NB	80.212	80.307	500	12	4.0	150.7	666.7	100	BENEATH RAILROAD OVERPASS
RTE 49	SB	80.212	80.307	500	12	4.0	150.7	666.7	100	BENEATH RAILROAD OVERPASS
						SUB-TOTAL	-	-	414.0	
						TOTAL	542.4	3466.8	-	
						USE	542.4	3466.8	-	
NOTES: LOG MILES ARE APPROXIMATE. REFER TO SPECIAL SHEETS.										

* TACK AT 0.05 GAL/SY BETWEEN LIFTS OF NEW PAVEMENT
* TACK AT 0.10 GAL/SY FOR MILLED SURFACES

STATE OF MISSOURI

JACOB CAPEDEE

NUMBER

PE-2018021161

PROFESSIONAL ENGINEER

JACOB CAPEDEE - CIVIL

MO-PE-2018021161

DATE PREPARED

2/28/2025

ROUTE

49

STATE

MO

DISTRICT

SE

SHEET NO.

3

COUNTY

IRON/WAYNE

JOB NO.

J9P3796

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION

DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL

JEFFERSON CITY, MO 65102

1-888-ASK-MODOT (1-888-273-6636)

MoDOT

COLDMILLING FOR OVERLAY							
LOCATION	LOG MILE	LOG MILE	DIR.	LENGTH (FT)	WIDTH (FT)	MODIFIED COLDMILLING DEPTH TRANSITIONS (SQYD)	COLDMILLING BIT. PVMNT. 3" THICK OR LESS (SQYD)
RTE 49	67.900	67.990	NB/SB	475	VAR	-	1738.0
RTE 49	67.990	68.190	NB/SB	1056	24	-	2816.0
RTE 49/K INT.	68.190	68.225	NB/SB	185	VAR	-	884.0
RTE 49	68.225	68.500	NB/SB	1452	26	-	4194.7
RTE 49	68.500	68.848	NB/SB	1837	22	-	4490.4
-	-	-	-	-	-	-	-
RTE 49	85.760	85.769	NB/SB	50	26	144.4	-
RTE AA	-	86.094	RT	25	26	72.2	-
RTE 49	86.691	86.700	NB/SB	50	24	133.3	-
RTE 49	86.700	86.719	NB/SB	100	24	266.7	-
BR K0357 (SEE NOTE)	86.719	86.755	-	-	-	-	-
RTE 49	86.755	86.774	NB/SB	100	24	266.7	-
RTE 49	86.774	86.783	NB/SB	50	24	133.3	-
RTE 49	86.911	86.920	NB/SB	50	24	133.3	-
RTE 49	86.920	86.939	NB/SB	100	24	-	266.7
VARIOUS PAVED ENTRANCES	85.760	86.939	LT/RT	VARIES	2	40.0	-
					TOTAL	1189.9	14389.8
					USE	1190	14390

NOTES:

- BR K0357, PAID AS ASPHALT WEARING SURFACE REMOVAL.
- LOG MILES ARE APPROXIMATE. REFER TO SPECIAL SHEETS.

ENTRANCE AGGREGATE					
LOCATION	DIR.	LOG MILE	LOG MILE	GRAVEL (A) OR CRUSHED STONE (B) (TONS)	REMARKS
RTE 49	NB/SB	68.500	68.885	12.0	12 NON-PAVED ENTRANCES (1 TON EA)
RTE 49	NB/SB	75.440	86.939	77.0	77 NON-PAVED ENTRANCES (1 TON EA)
			TOTAL	89.0	
			USE	89	

NOTE:
REFER TO SPECIAL SHEETS.

BITUMINOUS SHOULDER RUMBLE STRIP							
LOCATION	DIR.	LOG MILE	LOG MILE	LENGTH (FT)	SHOULDER RUMBLE (STA)	EXCEPTIONS (STA)	
RTE 49	NB/SB	76.300	80.212	41311	413.1	46.0	
RTE 49 - EXCEPTION - RR TUNNEL	-	80.212	80.307	-	-	10.0	
RTE 49	NB/SB	80.307	82.105	18987	189.9	20.0	
RTE 49 - EXCEPTION - BR A8492	-	82.105	82.130	-	-	2.6	
RTE 49	NB/SB	82.130	86.580	46992	469.9	118.0	
					TOTAL	1072.9	-196.6
					USE	876.3	

NOTES:
SEE STANDARD PLAN 626.00H "RUMBLE STRIPS" FOR DETAILS
EXCEPTIONS COLUMN CALCULATED USING 2 STA PER INTERSECTION

BR K0357 - WEARING SURFACE						
LOCATION	DIR.	LOG MILE	LOG MILE	REMOVAL OF ASPHALT WEARING SURFACE (SQFT)	SEAL COAT AGG. , GRADE B1 (SQYD)	EMULSIFIED ASPHALT , SEAL COAT (0.40 GAL / SY)
RTE 49 - BR K0357	NB/SB	86.719	86.755	4180	464.4	185.8
				TOTAL	464	186
				USE	464	186

NOTES:

- SEE SPECIAL SHEETS FOR DETAILS.
- MATCH EXISTING WEARING SURFACE THICKNESS.
- NEW WEARING SURFACE IS PAID AS SURFACE LEVELING OVERLAY.

STATE OF MISSOURI

JACOB CAPEDE

NUMBER

PE-2018021161

PROFESSIONAL ENGINEER

JACOB CAPEDE - CIVIL

MO-PE-2018021161

DATE PREPARED

2/28/2025

ROUTE

49

STATE

MO

DISTRICT

SE

SHEET NO.

3

COUNTY

IRON/WAYNE

JOB NO.

J9P3796

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION

DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL

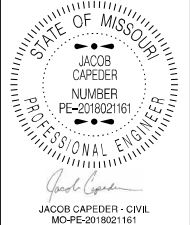
JEFFERSON CITY, MO 65102

1-888-ASK-MODOT (1-888-273-6636)

PERMANENT PAVEMENT MARKING								
LOCATION	DIR.	LOG MILE	LOG MILE	STANDARD WATERBORNE PAVEMENT MARKING PAINT TYPE P BEADS			24" WHITE, PREFORMED THERMOPLASTIC (LF)	R/R CROSSING MARKER, PREFORMED THERMOPLASTIC (EA)
				4" SOLID WHITE (LF)	4" SOLID YELLOW (LF)	4" INT. YELLOW (LF)		
RTE 49	NB/SB	58.100	86.947	300154	241766	12817	-	-
RTE 21/49 INT.	SB LEG	-	58.190	-	-	-	11	
RTE 49	SB	-	59.430	-	-	-	-	1
RTE 49	SB	-	59.560	-	-	-	11	-
RTE 49	NB	-	59.590	-	-	-	11	-
RTE 49	NB	-	59.750	-	-	-	-	1
RTE 49	SB	-	68.199	-	-	-	12	-
RTE K	-	-	68.208	-	-	-	11	-
RTE C	-	-	69.647	-	-	-	13	-
RTE F	-	-	69.976	-	-	-	14	-
RTE BB	-	-	73.084	-	-	-	14	-
RTE 143	-	-	75.470	200	200	-	14	-
RTE CC	-	-	81.094	120	120	-	18	-
RTE AA	-	-	86.094	140	140	-	16	-
TOTAL				300614	242226	12817	145	2
USE				300614	255043		145	2
NOTES:								
- LAYOUT OF EXISTING PAVEMENT MARKINGS SHALL BE RECORDED BY THE CONTRACTOR IN ACCORDANCE WITH PAVEMENT MARKING LOG JSP								
- LOCATION OF STOP BARS AT STATE ROUTE INTERSECTIONS SHALL BE VERIFIED BY THE MODOT TRAFFIC DEPARTMENT PRIOR TO PLACEMENT								

REMOVAL OF IMPROVEMENTS - 1 LUMP SUM					
LOCATION	REMARKS	DIR.	LOG MILE	LOG MILE	DESCRIPTION
RTE 49	NEAR DES ARC	NB	75.534	75.626	487.5 LF GUARDRAIL
RTE 49	NEAR DES ARC	NB	75.822	75.895	387.5 LF GUARDRAIL

GUARDRAIL							
LOCATION	REMARKS	DIR.	LOG MILE	LOG MILE	MODIFIED SHAPING SLOPES CLASS III (LF)	MGS GUARDRAIL 8 FT. POSTS 6 FT. - 3 IN. SPACING (LF)	TYPE A CRASHWORTHY END TERMINAL (MASH) (EA)
RTE 49	UPGRADE EXIST.	NB	75.530	75.622	160	387.5	2
RTE 49	UPGRADE EXIST. & EXTEND 100' SOUTH	NB	75.820	75.912	160	387.5	2
TOTAL					320	775	4
USE					320	775	4
NOTES: - REFER TO STANDARD PLANS 606.50 AND 606.60 FOR DETAILS. - PLACE MODIFIED SHAPING SLOPES AT END TERMINALS, REFER TO STANDARD PLAN 606.81 FOR GRADING LIMITS.							



DATE PREPARED	
4/2/2025	
ROUTE	STATE
49	MO
DISTRICT	SHEET NO.
SE	3
COUNTY	
IRON/WAYNE	
JOB NO.	
J9P3796	
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)

JACOBO CAPEDEI - CIVIL MO-PE-2018022161	
DATE PREPARED 2/28/2025	
ROUTE 49	STATE MO
DISTRICT SE	SHEET # 3
COUNTY IRON/WAYNE	
JOB NO. J9P3796	
CONTRACT ID.	

PROJECT NO.

BRIDGE NO.

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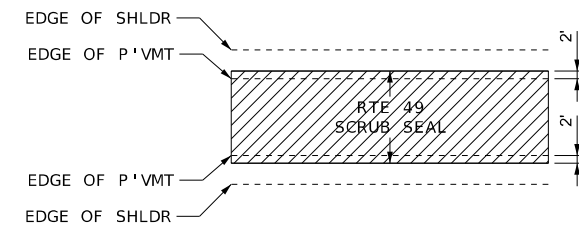
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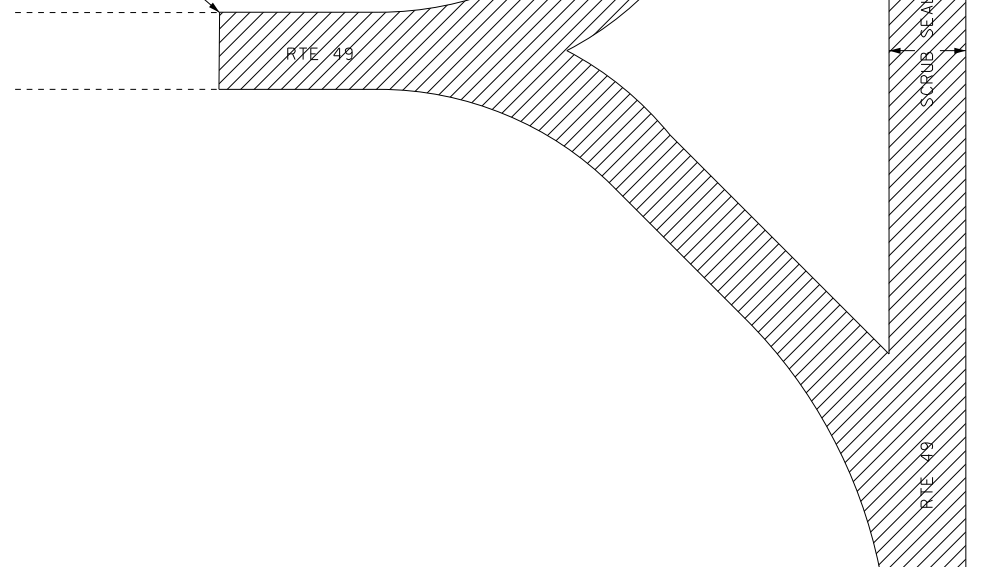


4705



RTE 49
SCRUB SEAL LIMITS IN SHOULDERED SECTIONS

BEGIN JOB / BEGIN SCRUB SEAL
LM 58.108



RTE 49 - SCRUB SEAL
BEGIN PROJECT TO ANNAPOLIS

NO EXCEPTIONS

END SCRUB SEAL & BEGIN MILL/FILL
LM 67.900

1" MILL /
1.25" FILL



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

DRAWING NOT TO SCALE.

BEGIN JOB / BEGIN SCRUB SEAL
LM 58.108

100'

RTE 21

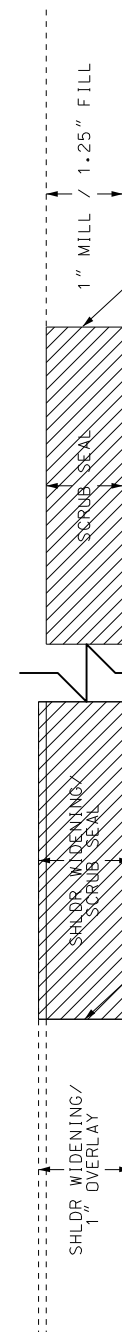
SCRUB SEAL

RTE 49

SCRUB SEAL

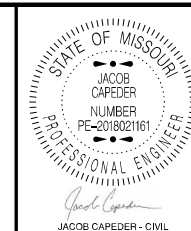
RTE 49 - SCRUB SEAL
ANNAPOLIS TO LM 85.760

EXCEPTIONS
LM 70.040 TO 70.109 - BR A8672
LM 70.296 TO 70.330 - BR G0878
LM 73.030 TO 73.100 - BR A9280
LM 82.105 TO 82.130 - BR A8492



END MILL/FILL &
BEGIN SCRUB SEAL
LM 68.848

END SCRUB SEAL
& BEGIN OVERLAY
LM 85.760



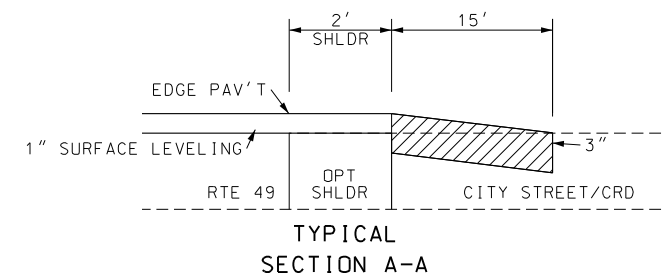
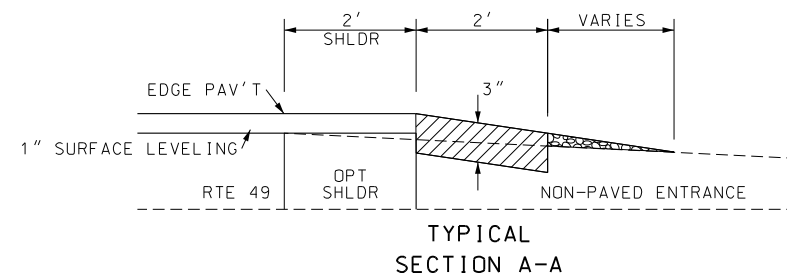
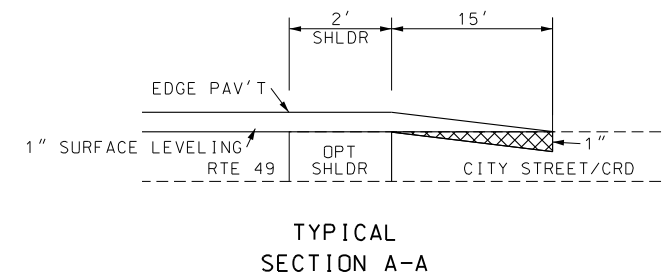
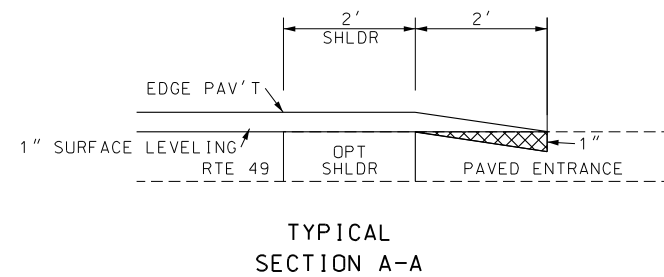
DATE PREPARED 3/3/2025	
ROUTE 49	STATE MO
DISTRICT SE	SHEET NO. 6
COUNTY IRON/WAYNE	
JOB NO. J9P3796	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

DESCRIPTION	DATE

MISSOURI HIGHWAYS AND TRANSPORTATION
COMMISSION

105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-273-6636)

SPECIAL SHEETS
SHEET 3 OF 7



NOTES

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

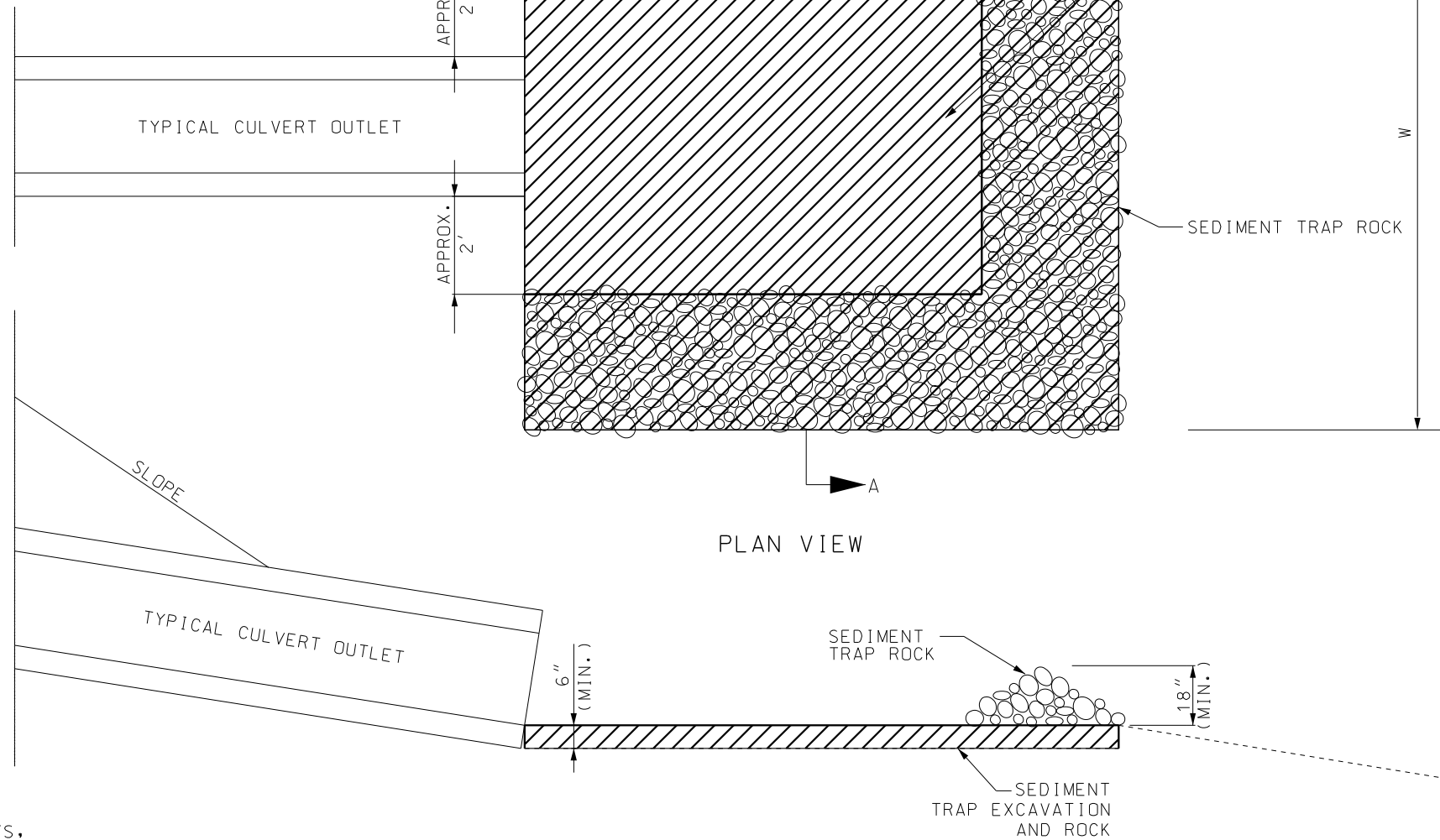
THE WIDTH OF ALL HOT MIX AND AGGREGATE APRONS MAY BE ADJUSTED BY THE ENGINEER AS NECESSARY TO OBTAIN SUITABLE TRANSITIONS.

DRAWING NOT TO SCALE

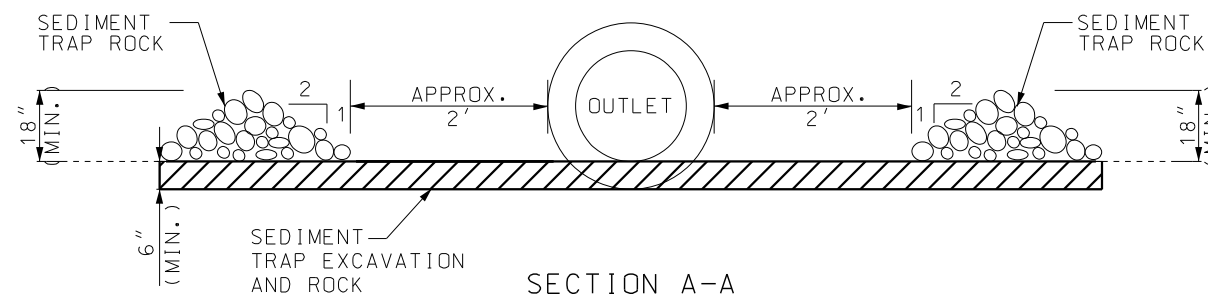


— SEDIMENT TRAP ROCK

PLAN VIEW



PROFILE VIEW



SECTION A-A

DRAWING NOT TO SCALE. FOLLOW DIMENSIONS.

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DATE PREPARED

2/28/2025

ROUTE	STATE
10	10

49	MO
----	----

TRICT	SHEET NO
55	11

SE	11
COUNTY	

COUNTY
RON / WAYNE

LOB NO

19P3796

CONTRACT ID.

Abstract

PROJECT NO.

BRIDGE NO.

DESCRIPTION

DATE _____

MISSOURI HIGHWAYS AND TRANSPORTATION
COMMISSION

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

NEW 2' SHOULDER

SILT FENCE

NEW 2' SHOULDER

TOE OF SLOPE

SLOPE

(MAX.)

— SLOPE —

3'
(MAX

— BOX CULVERT

— TOE OF SLOPE

PLAN VIEW

The diagram illustrates a cross-section of a temporary construction method for a roadway shoulder. A trapezoidal pile of "3-6" CLEAN ROCK" is shown. The top width of the rock pile is labeled "20' (MIN.)". The height of the pile is indicated by a vertical dimension line on the right, labeled "50' MIN. OR TO ROW LINE". To the left of the rock pile, a horizontal line represents the "NEW 2' SHOULDER". Below the rock pile, a horizontal line represents the "EXISTING ROADWAY". Two arrows, both labeled "A", point towards the rock pile from the left and right sides, indicating a specific direction or force.

DRAWING NOT TO SCALE. FOLLOW DIMENSIONS.

NEW 2' SHOULDER

PLAN VIEW

EXISTING GROUND

$$\frac{3-6'' \text{ CLEAN ROCK}}{50' (\text{MIN.})}$$

EXISTING ROADWAY

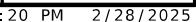
2' SHOULDER

—TEMPORARY PIPE

SECTION A-A

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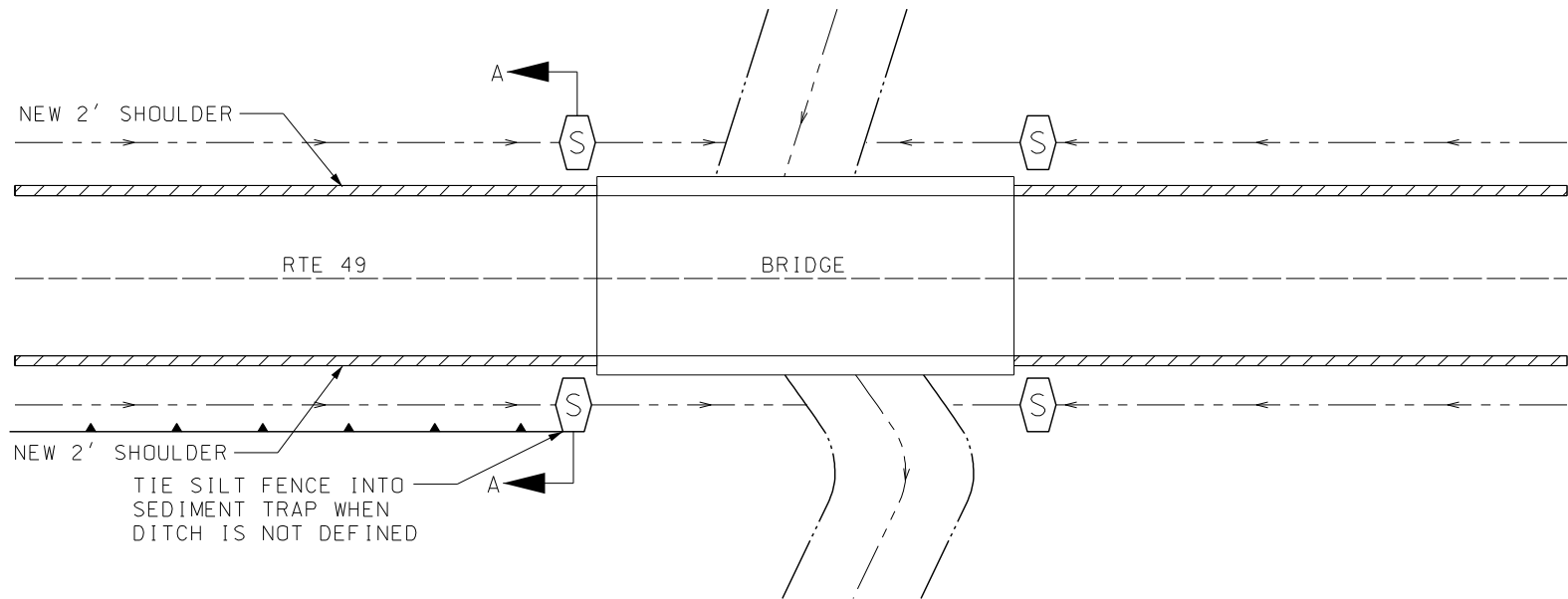
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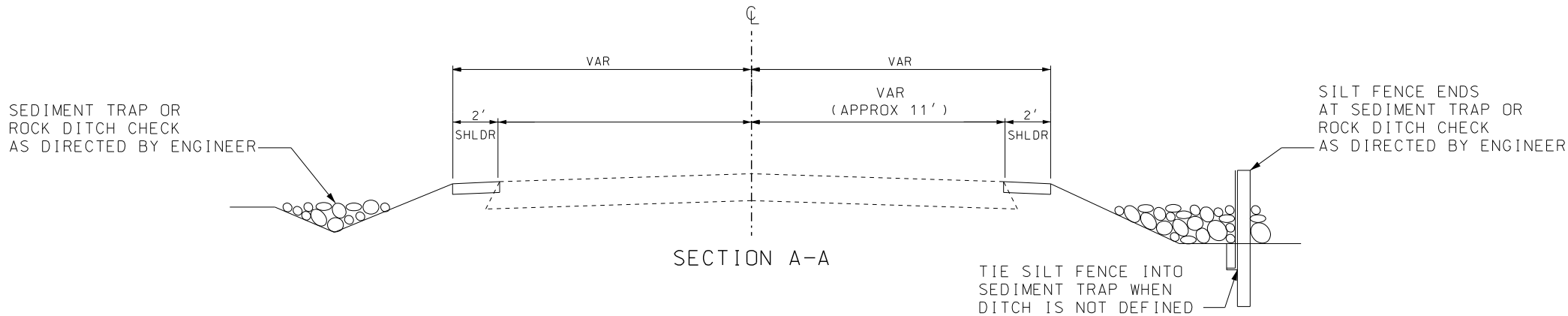
MISSOURI HIGHWAYS AND TRANSPORTATION
COMMISSION

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

EROSION CONTROL AT BRIDGE ENDS



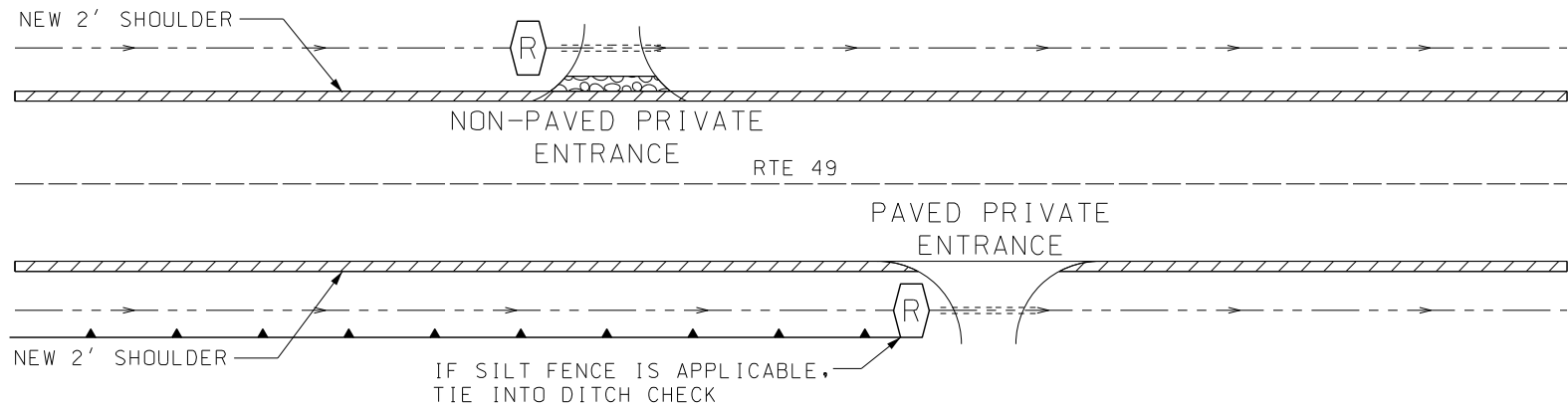
PLAN VIEW



SECTION A-A

- SEDIMENT TRAP
- ROCK DITCH CHECK
- SILT FENCE

EROSION CONTROL AT DRIVEWAYS



PLAN VIEW

NOTE:
ROCK DITCH CHECKS TO BE LOCATED AT EACH BRIDGE CORNER
TIE SILT FENCE INTO SEDIMENT TRAP WHEN DITCH IS NOT DEFINED
DRAWING NOT TO SCALE. FOLLOW DIMENSIONS.

EROSION CONTROL
SHEET 3 OF 3

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STATE OF MISSOURI

JACOB CAPEDIER

NUMBER

PE-2018021161

PROFESSIONAL ENGINEER

JACOB CAPEDIER - CIVIL

MO-PE-2018021161

DATE PREPARED

2/28/2025

ROUTE

49

STATE

MO

DISTRICT

SE

SHEET NO.

13

COUNTY

IRON/WAYNE

JOB NO.

J9P3796

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION

DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL

JEFFERSON CITY, MO 65102

1-888-ASK-MODOT (1-888-273-6636)

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