MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

PLANS FOR PROPOSED STATE HIGHWAY

DENT & TEXAS COUNTIES

DESIGN DESIGNATION

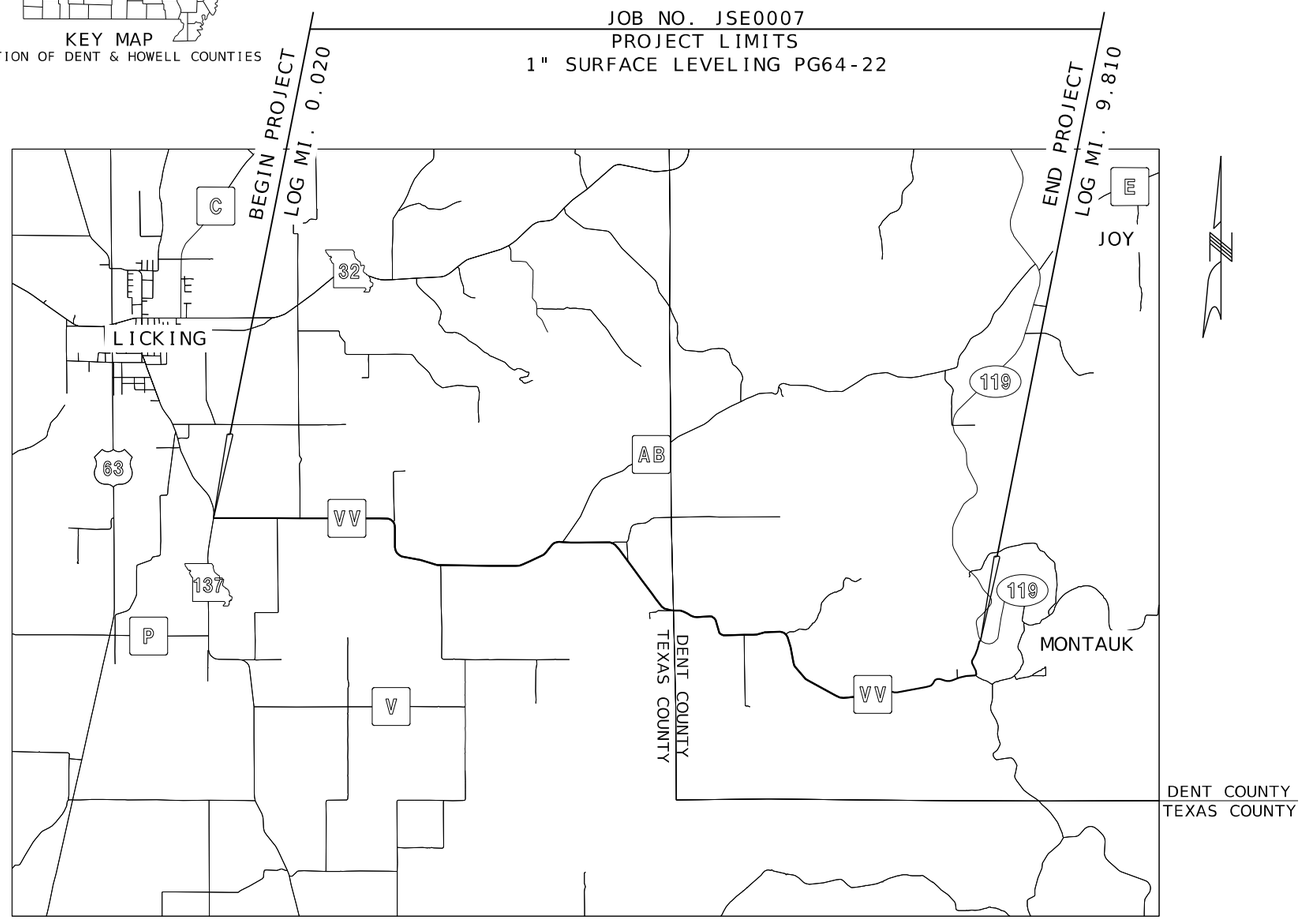
A.A.D.T. - 2026 = 790
A.A.D.T. - 2026 = 875
D.H.V. = 11%
T = 15%
V = 25-60 M.P.H.
D = 50%

FUNCTIONAL CLASSIFICATION- MAJOR COLLECTOR

NO RIGHT OF WAY TO BE ACQUIRED

KEY MAP
LOCATION OF DENT & HOWELL COUNTIES

JOB NO. JSE0007
PROJECT LIMITS
1" SURFACE LEVELING PG64-22



CONVENTIONAL SYMBOLS
(USED IN PLANS)

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

NOTE: DASHED OR OPEN SYMBOLS INDICATE EXISTING FEATURES

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 SECTION (TS) (1 SHEET)	2
QUANTITIES (QU) (4 SHEETS)	3
SPECIAL SHEETS (SS)	4

LENGTH OF PROJECT

BEGINNING OF PROJECT — LOG MILE 0.020
END OF PROJECT — LOG MILE 9.810

APPARENT LENGTH — 51691.2 FEET

EQUATIONS AND EXCEPTIONS:

TOTAL CORRECTIONS — 0.00 FEET
NET LENGTH OF PROJECT — 51691.2 FEET
STATE LENGTH — 9.790 MILES

STATE OF MISSOURI
WILLIAM R. BUCK
NUMBER
PE-025272
PROFESSIONAL ENGINEER
10/13/2025
William R. Buck, P.E.
Mo PE 025272

DATE PREPARED	
10/13/2025	
ROUTE: VV	STATE: MO
DISTRICT: SE	SHEET NO.: 1
COUNTY: DENT & TEXAS	
JOB NO.: JSE0007	
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)

POWELL CWM
ARCHITECTURE/ENGINEERING/SURVEYING
3200 S. State Route 291, Bldg. 1, Independence, MO 64057
816.373.4800 | powellcwm.com

Certificates of Authority
Architecture: MO 310 / KS 73
Engineering: MO 4 / KS 241
Land Surveying: MO 123 / KS 36

NOTES:

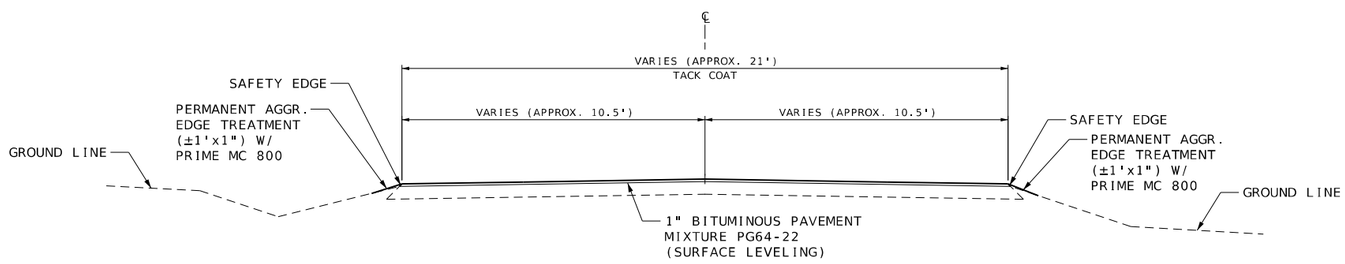
1. SURFACE PLACEMENT SHALL BE ONE PASS PER LANE, MATCH EXISTING PAVEMENT CROSS SLOPE. NO SUPERELEVATION CORRECTION.
2. SEE STANDARD PLAN 401.00 FOR SAFETY EDGE REQUIREMENTS.
3. EXISTING TYPICALS ARE FOR INFORMATION ONLY. PAVEMENT LAYERS MAY VARY FROM TYPICALS.
4. LOG MILE LOCATIONS APPROXIMATE. ADJUST AS DIRECTED BY ENGINEER TO FIT FIELD CONDITIONS.
5. PERMANENT AGGR. EDGE TREATMENT W/ PRIME MC 800 SHALL BE APPLIED ALONG EOP TO ACHIEVE A 3:1 SLOPE FOR THE ENTIRE LENGTH OF APPLICATION.
6. PERMANENT AGGREGATE EDGE TREATMENT WILL BE PAID FOR UNDER PAY ITEM 3049910 PER TON AND PRIME MC 800 WILL BE PAID FOR UNDER PAY ITEM 4081018 PER GAL.

ASPHALT FACTORS	
MATERIAL	TONS/C.Y.
1" SL PG64-22	2.034
IRREGULARITIES 150 TON/MILE	

TACK COAT APPLICATION RATE
0.10 GAL/YD² (UNDILUTED)

PERMANENT AGGR. EDGE TREATMENT
1.40 TON/YD³

PRIME MC 800 APPLICATION RATE
0.25 GAL/YD²



TYPICAL SECTION ON TANGENT
ROUTE VV
LOG MILE 0.020 TO LOG MILE 9.810

DRAWING NOT TO SCALE
FOLLOW DIMENSIONS

ROUTE VV
TYPICAL SHEET
1 OF 1

STATE OF MISSOURI
WILLIAM R. BUCK
NUMBER
PE-025272
PROFESSIONAL ENGINEER
10/13/2025
William R. Buck, P.E.
Mo PE 025272

DATE PREPARED	
10/13/2025	
ROUTE: VV	STATE: MO
DISTRICT: SE	SHEET NO.: 2
COUNTY: DENT & TEXAS	
JOB NO.: JSE0007	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

DATE	DESCRIPTION

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COLDMILLING

LOG MILE	LOG MILE	LOC	LENGTH FT	WIDTH FT	MODIFIED DEPTH TRANSITION SY	REMARKS
0.020	0.029	CL	50	21	116.7	BEGIN PROJECT
9.801	9.810	CL	50	21	116.7	END PROJECT
0.302	0.307	RT	26.4	2	5.9	DRIVEWAY (PAVED)
0.327	0.332	RT	26.4	2	5.9	DRIVEWAY (PAVED)
0.424	0.428	LT	21.12	2	4.7	DRIVEWAY (PAVED)
0.447	0.451	LT	21.12	2	4.7	DRIVEWAY (PAVED)
0.509	0.515	RT	31.68	2	7.0	DRIVEWAY (PAVED)
0.535	0.541	RT	31.68	2	7.0	DRIVEWAY (PAVED)
0.837	0.845	LT	42.24	2	9.4	DRIVEWAY (PAVED)
2.734	2.744	RT	52.8	20	117.3	SHIPP DR (PAVED)
4.105	4.128	LT	121.44	110	458.7	ROUTE AB (PAVED)
9.801	9.810	CL	50	21	116.7	END PROJECT
9.417	9.437	RT	105.6	20	234.7	RTE 6630 (PAVED)
				TOTAL	1205.4	
				USE	1206	

LOG MILES ARE APPROXIMATE. EXACT LOCATIONS TO BE DETERMINED BY ENGINEER.

MOBILIZATION

1 LUMP SUM

ROADWAY & ENTRANCE PAVEMENT

LOG MILE	LOG MILE	LOC	LENGTH FT	WIDTH FT	MEASURED AREA SY	THICK IN	BITUMINOUS PAVEMENT MIXTURE PG64-22 (SURFACE LEVELING) (2.034 TON/CY) (TON)	TACK COAT (0.10 GAL/SY) (GAL)	GRAVEL A OR CRUSHED STONE (B) (SY)	PERMANENT AGGR. EDGE TREATMENT (1.40 TON/CY) (TON)	MC 800 PRIME (0.25 GAL/SY) (GAL)	REMARKS
0.020	0.675	CL	3458	21.0	8068.7	1.0	455.9	806.9		96.1	14.9	HWY 137 TO LANIER RD
0.675	0.916	CL	1272	21.0	2968.0	1.0	167.7	296.8		5.5	35.3	LANIER RD TO CAMERON RD (RTE 3820)
0.916	1.914	CL	5269	21.0	12294.3	1.0	694.6	1229.4		22.8	146.4	CAMERON RD (RTE 3820) TO SHEPPARD DR (RTE 3566)
1.914	2.739	CL	4356	21.0	10164.0	1.0	574.3	1016.4		18.8	121.0	SHEPPARD DR (RTE 3566) TO SHIPP DR (RTE 3570)
2.739	4.114	CL	7260	21.0	16940.0	1.0	957.1	1694.0		31.4	201.7	SHIPP DR (RTE 3570) TO RTE AB
4.114	4.648	CL	2820	21.0	6580.0	1.0	371.8	658.0		12.2	78.3	RTE AB TO SIDNEY RD
4.648	4.896	CL	1309	21.0	3054.3	1.0	172.6	305.4		5.7	36.4	SIDNEY RD TO COOPER DR
4.896	5.605	CL	3744	21.0	8736.0	1.0	493.6	873.6		16.2	104.0	COOPER DR TO MOUNTY DR
5.605	6.522	CL	4842	21.0	11298.0	1.0	638.3	1129.8		20.9	134.5	MOUNTY DR TO RTE 6620
6.522	6.972	CL	2376	21.0	5544.0	1.0	313.2	554.4		10.3	66.0	RTE 6620 TO RTE 6610
6.972	9.231	CL	11928	21.0	27832.0	1.0	1572.5	2783.2		51.5	331.3	RTE 6610 TO RTE 6635
9.231	9.430	CL	1051	21.0	2452.3	1.0	138.6	245.2		4.5	29.2	ROUTE 6635 TO RTE 6630
9.430	9.810	CL	2006	21.0	4680.7	1.0	264.4	468.1		8.7	55.7	RTE 6630 TO RTE 119 RADIUS RETURNS
							1471.5					150 TONS/MILE FOR IRREGULARITIES
0.091	0.094	LT	16	2.0	3.6	1.0			3.5			FIELD ENTRANCE (NON-PAVED)
0.087	0.095	RT	42	2.0	9.3	1.0	0.5	0.9	9.4			DRIVEWAY
0.302	0.307	RT	26	2.0	5.8	1.0	0.3	0.6				DRIVEWAY (PAVED)
0.327	0.332	RT	26	2.0	5.8	1.0	0.3	0.6				DRIVEWAY (PAVED)
0.424	0.428	LT	21	2.0	4.7	1.0	0.3	0.5				DRIVEWAY (PAVED)
0.447	0.451	LT	21	2.0	4.7	1.0	0.3	0.5				DRIVEWAY (PAVED)
0.509	0.515	RT	32	2.0	7.1	1.0	0.4	0.7				DRIVEWAY (PAVED)
0.535	0.541	RT	32	2.0	7.1	1.0	0.4	0.7				DRIVEWAY (PAVED)
0.672	0.675	LT	16	2.0	3.6	1.0			3.5			FIELD ENTRANCE (NON-PAVED)
0.669	0.678	RT	48	20.0	106.7	3.0	18.0	10.7				LANIER RD (UNPAVED)
0.837	0.845	LT	42	2.0	9.3	1.0	0.5	0.9				DRIVEWAY (PAVED)
0.912	0.922	LT	53	20.0	117.8	3.0	19.8	11.8				CAMERON RD (UNPAVED)
1.044	1.052	RT	42	2.0	9.3	1.0	0.5	0.9	9.4			DRIVEWAY
1.097	1.103	RT	32	2.0	7.1	1.0			7.0			FIELD ENTRANCE (NON-PAVED)
1.132	1.136	LT	21	2.0	4.7	1.0	0.3	0.5	4.7			DRIVEWAY
1.353	1.357	RT	21	2.0	4.7	1.0	0.3	0.5	4.7			DRIVEWAY
1.361	1.372	RT	58	2.0	12.9	1.0	0.7	1.3	12.9			DRIVEWAY
1.370	1.373	LT	16	2.0	3.6	1.0			3.5			FIELD ENTRANCE (NON-PAVED)
1.533	1.536	LT	16	2.0	3.6	1.0	0.2	0.4	3.5			DRIVEWAY
1.573	1.577	LT	21	2.0	4.7	1.0	0.3	0.5	4.7			DRIVEWAY
1.909	1.919	LT	53	20.0	117.8	3.0	19.8	11.8				SHEPARD RD (UNPAVED)
1.989	2.000	RT	58	2.0	12.9	1.0	0.7	1.3	12.9			DRIVEWAY
2.022	2.028	RT	32	2.0	7.1	1.0			7.0			FIELD ENTRANCE (NON-PAVED)
2.032	2.039	LT	37	2.0	8.2	1.0	0.5	0.8	8.2			DRIVEWAY
2.193	2.219	RT	137	2.0	30.4	1.0	1.7	3.0	30.5			DRIVEWAY
2.419	2.427	RT	42	2.0	9.3	1.0	0.5	0.9	9.4			DRIVEWAY W/MAILBOX
2.541	2.546	LT	26	2.0	5.8	1.0	0.3	0.6	5.9			DRIVEWAY
2.533	2.547	RT	74	2.0	16.4	1.0	0.9	1.6	16.4			DRIVEWAY W/MAILBOXES
2.734	2.744	RT	53	20.0	117.8	1.0	6.7	11.8				SHIPP DR (PAVED)
2.965	2.969	LT	21	2.0	4.7	1.0	0.3	0.5	4.7			DRIVEWAY
3.044	3.051	RT	37	2.0	8.2	1.0	0.5	0.8	8.2			DRIVEWAY W/MAILBOX
3.120	3.125	LT	26	2.0	5.8	1.0	0.3	0.6	5.9			DRIVEWAY W/MAILBOXES
3.241	3.250	LT	48	2.0	10.7	1.0	0.6	1.1	10.6			DRIVEWAY
						SUBTOTAL-1	8362.0	12128.0	186.5	223.4	1435.9	

LOG MILES ARE APPROXIMATE. EXACT LOCATIONS TO BE DETERMINED BY ENGINEER.

SUMMARY OF QUANTITIES
1 OF 4

STATE OF MISSOURI
WILLIAM R. BUCK
NUMBER
PE-025272
PROFESSIONAL ENGINEER

10/15/2025

William R. Buck, P.E.
Mo PE-025272

DATE PREPARED
10/15/2025

ROUTE	STATE
VV	MO
DISTRICT	SHEET NO.
SE	3

COUNTY
DENT & TEXAS

JOB NO.
JSE0007

CONTRACT ID.

PROJECT NO.

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DESCRIPTION	DATE

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ENTRANCE & ROADWAY PAVEMENT

LOG MILE	LOG MILE	LOC	LENGTH FT	WIDTH FT	MEASURED AREA SY	THICK IN	BITUMINOUS PAVEMENT MIXTURE PG64-22 (SURFACE LEVELING) (2.034 TON/CY) (TON)	TACK COAT (0.10 GAL/SY) (GAL)	GRAVEL A OR CRUSHED STONE (B) (SY)	PERMANENT AGGR. EDGE TREATMENT (1.40 TON/CY) (TON)	MC 800 PRIME (0.25 GAL/SY) (GAL)	REMARKS
3.247	3.254	RT	37.0	2.0	8.2	1.0	0.5	0.8	8.2			DRIVEWAY
3.483	3.489	LT	31.7	2.0	7.0	1.0	0.4	0.7	7.0			DRIVEWAY W/MAILBOXS
3.688	3.696	RT	42.2	2.0	9.4	1.0	0.5	0.9	9.4			DRIVEWAY
3.855	3.880	RT	132.0	2.0	29.3	1.0	1.7	2.9	29.3			DRIVEWAY
4.011	4.025	LT	73.9	2.0	16.4	1.0	0.9	1.6	16.4			DRIVEWAY W/MAILBOX
4.034	4.036	LT	10.6	2.0	2.4	1.0			2.3			FIELD ENTRANCE (NON-PAVED)
4.057	4.061	LT	21.1	2.0	4.7	1.0	0.3	0.5	4.7			DRIVEWAY
4.107	4.112	RT	26.4	2.0	5.9	1.0	0.3	0.6	5.9			DRIVEWAY
4.105	4.128	LT	121.4	20.0	269.8	1.0	15.2	27.0				ROUTE AB (PAVED)
4.298	4.308	RT	52.8	2.0	11.7	1.0	0.7	1.2	11.7			DRIVEWAY
4.446	4.453	LT	37.0	2.0	8.2	1.0	0.5	0.8	8.2			DRIVEWAY
4.531	4.538	LT	37.0	2.0	8.2	1.0	0.5	0.8	8.2			DRIVEWAY
4.639	4.652	LT	68.6	20.0	152.4	3.0	25.8	15.2				SIDNEY RD (UNPAVED)
4.777	4.782	LT	26.4	2.0	5.9	1.0	0.3	0.6	5.9			DRIVEWAY
4.885	4.897	LT	63.4	20.0	140.9	1.0	8.0	14.1				COOPER RD (PAVED)
4.898	4.903	RT	26.4	20.0	58.7	3.0	9.9	5.9				COOPER RD (UNPAVED)
4.925	4.929	LT	21.1	2.0	4.7	1.0	0.3	0.5	4.7			DRIVEWAY
4.938	4.941	LT	15.8	2.0	3.5	1.0	0.2	0.4	3.5			DRIVEWAY
4.968	4.973	RT	26.4	2.0	5.9	1.0	0.3	0.6	5.9			DRIVEWAY
5.057	5.061	LT	21.1	2.0	4.7	1.0	0.3	0.5	4.7			DRIVEWAY
5.105	5.111	RT	31.7	2.0	7.0	1.0	0.4	0.7	7.0			DRIVEWAY
5.123	5.128	LT	26.4	2.0	5.9	1.0	0.3	0.6	5.9			DRIVEWAY
5.152	5.158	RT	31.7	2.0	7.0	1.0	0.4	0.7	7.0			DRIVEWAY
5.164	5.169	LT	26.4	2.0	5.9	1.0	0.3	0.6	5.9			DRIVEWAY
5.197	5.202	RTT	26.4	2.0	5.9	1.0	0.3	0.6	5.9			DRIVEWAY
5.266	5.272	LT	31.7	2.0	7.0	1.0	0.4	0.7	7.0			DRIVEWAY W/MAILBOX
5.269	5.273	RT	21.1	2.0	4.7	1.0	0.3	0.5	4.7			DRIVEWAY
5.300	5.305	RTT	26.4	2.0	5.9	1.0	0.3	0.6	5.9			DRIVEWAY
5.408	5.417	RTT	47.5	2.0	10.6	1.0	0.6	1.1	10.6			DRIVEWAY
5.596	5.605	RT	47.5	20.0	105.6	1.0	6.0	10.6				MOUNTY DR (UNPAVED)
5.615	5.617	LT	10.6	2.0	2.4	1.0	0.1	0.2	2.3			DRIVEWAY
5.627	5.630	LT	15.8	2.0	3.5	1.0	0.2	0.4	3.5			DRIVEWAY
5.621	5.630	RT	47.5	2.0	10.6	1.0	0.6	1.1	10.6			DRIVEWAY
5.702	5.712	LT	52.8	2.0	11.7	1.0	0.7	1.2	11.7			DRIVEWAY W/MAILBOX
5.784	5.786	LT	10.6	2.0	2.4	1.0	0.1	0.2	2.3			DRIVEWAY
5.882	5.888	LT	31.7	2.0	7.0	1.0			7.0			FIELD ENTRANCE (NON-PAVED)
5.943	5.962	LT	100.3	2.0	22.3	1.0	1.3	2.2	22.3			DRIVEWAY
6.097	6.114	LT	89.8	2.0	20.0	1.0	1.1	2.0	19.9			DRIVEWAY
6.259	6.261	LT	10.6	2.0	2.4	1.0	0.1	0.2	2.3			DRIVEWAY
6.518	6.520	LT	10.6	2.0	2.4	1.0			2.3			FIELD ENTRANCE (NON-PAVED)
6.515	6.525	RT	52.8	20.0	117.3	3.0	19.8	11.7				ROUTE 6620 (UNPAVED)
6.605	6.620	LT	79.2	2.0	17.6	1.0	1.0	1.8	17.6			DRIVEWAY W/MAILBOX
6.619	6.624	RT	26.4	2.0	5.9	1.0			5.9			FIELD ENTRANCE (NON-PAVED)
6.762	6.768	LT	31.7	2.0	7.0	1.0	0.4	0.7	7.0			DRIVEWAY
6.907	6.910	LT	15.8	2.0	3.5	1.0			3.5			FIELD ENTRANCE (NON-PAVED)
6.964	6.981	LT	89.8	20.0	199.6	3.0	33.9	20.0				RTE 6610 (UNPAVED)
7.114	7.122	RT	42.2	2.0	9.4	1.0	0.5	0.9	9.4			DRIVEWAY
9.124	9.130	LT	31.7	2.0	7.0	1.0	0.4	0.7	7.0			DRIVEWAY
7.764	7.775	LT	58.1	2.0	12.9	1.0	0.7	1.3	12.9			DRIVEWAY W/MAILBOX
7.957	7.962	RT	26.4	2.0	5.9	1.0	0.3	0.6	5.9			DRIVEWAY
8.119	8.123	RT	21.1	2.0	4.7	1.0	0.3	0.5	4.7			DRIVEWAY
8.159	8.163	LT	21.1	2.0	4.7	1.0	0.3	0.5	4.7			DRIVEWAY
8.266	8.268	LT	10.6	2.0	2.4	1.0	0.1	0.2	2.3			DRIVEWAY
8.439	8.446	LT	37.0	2.0	8.2	1.0	0.5	0.8	8.2			DRIVEWAY W/MAILBOX
8.454	8.466	RT	63.4	2.0	14.1	1.0	0.8	1.4	14.1			DRIVEWAY
9.019	9.030	LT	58.1	2.0	12.9	1.0	0.7	1.3	12.9			DRIVEWAY
9.095	9.101	RT	31.7	2.0	7.0	1.0	0.4	0.7	7.0			DRIVEWAY
9.227	9.234	LT	37.0	20.0	82.2	3.0	13.8	8.2				RTE 6635 (UNPAVED)
9.275	9.278	RT	15.8	2.0	3.5	1.0	0.2	0.4	3.5			DRIVEWAY
9.324	9.329	LT	26.4	2.0	5.9	1.0	0.3	0.6	5.9			DRIVEWAY W/MAILBOX
9.417	9.437	RT	105.6	Approach	635.5	1.0	35.9	63.6				RTE 6630 (RESURFACE TO MAINTENANCE ENDS)
9.494	9.496	LT	10.6	2.0	2.4	1.0	0.1	0.2	2.3			DRIVEWAY
9.488	9.500	RT	63.4	2.0	14.1	1.0	0.8	1.4	14.1			DRIVEWAY W/MAILBOX
9.791	9.797	LT	31.7	2.0	7.0	1.0	0.4	0.7	7.0			DRIVEWAY
9.801	9.805	LT	21.1	2.0	4.7	1.0	0.3	0.5	4.7			DRIVEWAY
9.800	9.810	RT	52.8	2.0	11.7	1.0	0.7	1.2	11.7			DRIVEWAY
						SUBTOTAL-2	192.7	219.7	452.4			
						SUBTOTAL-1	8362.0	12128.0	186.5	223.4	1435.9	
							171.1					ASPHALT EDGE TREATMENT (2% OF SUBTOTAL)
						TOTAL	8725.8	12347.7	638.9	223.4	1435.9	
						USE	8725.8	12348	639	223.4	1436	

LOG MILES ARE APPROXIMATE. EXACT LOCATIONS TO BE DETERMINED BY ENGINEER.

SUMMARY OF QUANTITIES
2 OF 4

STATE OF MISSOURI
WILLIAM R. BUCK
NUMBER
PE-025272
PROFESSIONAL ENGINEER
10/15/2025
William R. Buck, P.E.
Mo PE-025272

DATE PREPARED 10/15/2025
ROUTE VV | STATE MO
DISTRICT SE | SHEET NO. 3
COUNTY DENT & TEXAS
JOB NO. JSE0007
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)

POWELL CWM
ARCHITECTURE/ENGINEERING/SURVEYING
3200 S. State Route 291, Bldg. 1, Independence, MO 64057
816.373.4800 | powellcwm.com

Certificates of Authority
Architecture: MO 310 / KS 73
Engineering: MO 4 / KS 241
Land Surveying: MO 123 / KS 36

PAVEMENT MARKING

LOG MILE	LOG MILE	LOCATION	CLASS 1 PAVEMENT MARKING PAINT (8-MIL, TYPE P BEADS) 4" WHITE (L.F.)	4" YELLOW (L.F.)	REMARKS
0.020	9.810	ROUTE VV RT	51691.2		EDGELINE
0.020	9.810	ROUTE VV LT	51691.2		EDGELINE
0.009	0.370	ROUTE VV CL		3812.2	CL DOUBLE YELLOW
0.370	0.538	ROUTE VV CL		1774.1	CL DOUBLE YELLOW WITH PASSING EASTBOUND
0.538	1.207	ROUTE VV CL		3532.3	CL SINGLE DASH - PASSING EAST AND WESTBOUUND
1.207	1.371	ROUTE VV CL		1731.8	CL DOUBLE YELLOW WITH PASSING WESTBOUND
1.371	1.470	ROUTE VV CL		1045.4	CL DOUBLE YELLOW
1.470	1.568	ROUTE VV CL		1034.9	CL DOUBLE YELLOW WITH PASSING EASTBOUND
1.568	1.717	ROUTE VV CL		1573.4	CL DOUBLE YELLOW WITH PASSING WESTBOUND
1.717	7.516	ROUTE VV CL		61237.4	CL DOUBLE YELLOW
4.114	4.114	ROUTE AB CL		50.0	CL DOUBLE YELLOW (RTE AB)
7.516	7.625	ROUTE VV CL		1151.0	CL DOUBLE YELLOW WITH PASSING EASTBOUND
7.625	7.686	ROUTE VV CL		644.2	CL DOUBLE YELLOW
7.686	7.770	ROUTE VV CL		887.0	CL DOUBLE YELLOW WITH PASSING WESTBOUND
7.770	7.991	ROUTE VV CL		2333.8	CL DOUBLE YELLOW
7.991	8.095	ROUTE VV CL		1098.2	CL DOUBLE YELLOW WITH PASSING EASTBOUND
8.095	8.167	ROUTE VV CL		760.3	CL DOUBLE YELLOW
8.167	8.260	ROUTE VV CL		982.1	CL DOUBLE YELLOW WITH PASSING WESTBOUND
8.260	9.810	ROUTE VV CL		16368.0	CL DOUBLE YELLOW
		TOTAL	103382.4	100016.1	
		USE	103,383	100,017	

SUMMARY OF QUANTITIES
3 OF 4

STATE OF MISSOURI
WILLIAM R. BUCK
NUMBER
PE-025272
PROFESSIONAL ENGINEER

10/15/2025

William R. Buck, P.E.
Mo PE-025272

DATE PREPARED
10/15/2025

ROUTE	STATE
VV	MO
DISTRICT	SHEET NO.
SE	3

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SIGN	SIZE IN.	AREA SQ.FT.	QTY EACH	TOTAL AREA SQ.FT.	QTY RELOC EACH	TOTAL RELOC SQ.FT.	SIGN NO.	DESCRIPTION
WARNING SIGNS								
WO1-1L	48X48	16.00						TURN (SYMBOL LEFT)
WO1-1R	48X48	16.00						TURN (SYMBOL RIGHT)
WO1-2L	48X48	16.00						CURVE (SYMBOL LEFT)
WO1-2R	48X48	16.00						CURVE (SYMBOL RIGHT)
WO1-3L	48X48	16.00						REVERSE TURN (SYMBOL LEFT)
WO1-3R	48X48	16.00						REVERSE TURN (SYMBOL RIGHT)
WO1-4L	48X48	16.00						REVERSE CURVE (SYMBOL LEFT)
WO1-4R	48X48	16.00						REVERSE CURVE (SYMBOL RIGHT)
WO1-4bL	48X48	16.00						DOUBLE ARROW REVERSE CURVE (SYMBOL LEFT)
WO1-4bR	48X48	16.00						DOUBLE ARROW REVERSE CURVE (SYMBOL RIGHT)
WO1-4cL	48X48	16.00						TRIPLE ARROW REVERSE CURVE (SYMBOL LEFT)
WO1-4cR	48X48	16.00						TRIPLE ARROW REVERSE CURVE (SYMBOL RIGHT)
WO1-6	60X30	12.50						HORIZONTAL ARROW (SYMBOL)
WO1-6a	72X36	18.00						HORIZ. ARROW (SYMBOL ON PERMANENT BARRICADE)
WO1-7	60X30	12.50						DOUBLE HEAD HORIZONTAL ARROW (SYMBOL)
WO1-7a	72X36	18.00						DOUBLE HEAD HORIZ. ARROW (SYMBOL ON PERM. BARR.)
WO1-8	18X24	3.00						CHEVRON (SYMBOL)
WO1-8a	30X36	7.50						CHEVRON (SYMBOL FOR DIVIDED HIGHWAYS)
WO3-1	48X48	16.00						STOP AHEAD (SYMBOL)
WO3-2	48X48	16.00						YIELD AHEAD (SYMBOL)
WO3-3	48X48	16.00						SIGNAL AHEAD (SYMBOL)
WO3-4	48X48	16.00	1	16.00				BE PREPARED TO STOP
WO3-5	48X48	16.00						SPEED LIMIT AHEAD
WO4-1L	48X48	16.00						MERGE (SYMBOL FROM LEFT)
WO4-1R	48X48	16.00						MERGE (SYMBOL FROM RIGHT)
WO4-1aL	48X48	16.00						MERGE (LEFT)
WO4-1aR	48X48	16.00						MERGE (RIGHT)
WO5-1	48X48	16.00						ROAD/BRIDGE/RAMP NARROWS
WO5-3	48X48	16.00						ONE LANE BRIDGE
WO5-5	48X48	16.00						NARROW LANES
WO6-1	48X48	16.00						DIVIDED HIGHWAY (SYMBOL)
WO6-2	48X48	16.00						DIVIDED HIGHWAY END (SYMBOL)
WO6-3	48X48	16.00						TWO WAY TRAFFIC (SYMBOL)
WO7-3a	30X24	5.00						NEXT XX MILES (PLAQUE)
WO8-1	48X48	16.00						BUMP
WO8-2	48X48	16.00						DIP
WO8-3	48X48	16.00						PAVEMENT ENDS
WO8-4	48X48	16.00						SOFT SHOULDER
WO8-5	48X48	16.00						SLIPPERY WHEN WET (SYMBOL)
WO8-6	48X48	16.00						TRUCK CROSSING
WO8-6c	48X48	16.00						TRUCK ENTRANCE
WO8-7	36X36	9.00						LOOSE GRAVEL
WO8-7a	36X36	9.00						FRESH OIL / LOOSE GRAVEL
WO8-9	48X48	16.00						LOW SHOULDER
WO8-11	48X48	16.00	4	64.00				UNEVEN LANES
WO8-12	48X48	16.00	4	64.00				NO CENTER LINE
WO8-15	48X48	16.00						GROOVED PAVEMENT
WO8-15P	30X24	5.00						MOTORCYCLE (PLAQUE)
WO8-17L	48X48	16.00						SHOULDER DROP-OFF (SYMBOL LEFT)
WO8-17R	48X48	16.00						SHOULDER DROP-OFF (SYMBOL RIGHT)
WO8-17P	30X24	5.00						SHOULDER DROP-OFF (PLAQUE)
W10-1	42RND.	9.62						RAILROAD CROSSING
WO12-1	24X24	4.00						DOUBLE DOWN ARROW (SYMBOL)
WO12-2	48X48	16.00						LOW CLEARANCE (SYMBOL)
WO12-2x	24X18	3.00						LOW CLEARANCE (PLAQUE)
WO12-2a	84X24	14.00						OVERHEAD LOW CLEARANCE (FEET AND INCHES)
WO12-4	120X60	50.00						LOW CLEARANCE XX FT XX IN XX MILES AHEAD
WO12-5	120X60	50.00						WIDTH RESTRICTION XX FT XX IN XX MILES AHEAD
WO13-1	30X30	6.25						ADVISORY SPEED (PLAQUE)
WO16-2	30X24	5.00						XXX FEET (PLAQUE)
WO16-3	30X24	5.00						X MILE (PLAQUE)
WO20-1	48X48	16.00	5	80.00				ROAD/BRIDGE/RAMP WORK AHEAD
WO20-2	48X48	16.00						DETOUR AHEAD
WO20-3	48X48	16.00						ROAD CLOSED AHEAD
WO20-4	48X48	16.00	4	64.00				ONE LANE ROAD AHEAD
WO20-5	48X48	16.00						RIGHT/CENTER/LEFT LANE CLOSED AHEAD
WO20-5a	48X48	16.00						2 RIGHT/CENTER/LEFT LANES CLOSED AHEAD
WO20-6a	48X48	16.00						RIGHT/CENTER/LEFT LANE CLOSED
WO20-7a	48X48	16.00	5	80.00				FLAGGER (SYMBOL)
WO21-2	36X36	9.00						FRESH OIL
WO21-5	48X48	16.00						SHOULDER WORK / SHOULDER WORK AHEAD
WO22-1	48X48	16.00						BLASTING ZONE AHEAD
WO22-2	42X36	10.50						TURN OFF 2-WAY RADIO AND PHONE
WO22-3	42X36	10.50						END BLASTING ZONE
GO22-1	21X15	2.19	2	4.38				WET PAINT (ARROW PIVOTS)

SIGN	SIZE IN.	AREA SQ.FT.	QTY EACH	TOTAL SQ.FT.	QTY RELOC EACH	TOTAL RELOC SQ.FT.	SIGN NO.	DESCRIPTION
GUIDE SIGNS								
E05-1	36X48	12.00						GORE EXIT
E05-2	48X36	12.00						EXIT OPEN
E05-2a	48X36	12.00						EXIT CLOSED
GO20-1	60X24	10.00	2	20.00				ROAD WORK NEXT XX MILES
GO20-2	48X24	8.00	2	16.00				END ROAD WORK
GO20-4	36X18	4.50	1	4.50				PILOT CAR FOLLOW ME
GO20-4a	42X30	8.75	1	8.75				PILOT CAR IN USE WAIT & FOLLOW
GO20-4a	18X12	1.50	1	1.50				PILOT CAR IN USE WAIT & FOLLOW
GO20-5aP	36X24	6.00						WORK ZONE (PLAQUE)
MO4-8a	24X18	3.00						END DETOUR
MO4-9L	48X36	12.00						DETOUR (LEFT)
MO4-9R	48X36	12.00						DETOUR (RIGHT)
MO4-9P	48X12	4.00						STREET NAME (PLAQUE)
MO4-10L	48X18	6.00						DETOUR ARROW (LEFT)
MO4-10R	48X18	6.00						DETOUR ARROW (RIGHT)
REGULATORY SIGNS								
R1-1	48X48	13.25						STOP
R1-2	48TRI.	6.93						YIELD
R1-2a	36X36	9.00						TO ONCOMING TRAFFIC (PLAQUE)
R1-3P	30X12	2.50						ALL WAY (PLAQUE)
R2-1	36X48	12.00						SPEED LIMIT XX
R3-1	48X48	16.00						NO RIGHT TURN (SYMBOL)
R3-2	48X48	16.00						NO LEFT TURN (SYMBOL)
R3-3	36X36	9.00						NO TURNS
R3-4	48X48	16.00						NO U-TURN (SYMBOL)
R3-7L	30X30	6.25						LEFT LANE MUST TURN LEFT
R3-7R	30X30	6.25						RIGHT LANE MUST TURN RIGHT
R4-1	36X48	12.00						DO NOT PASS
R4-2	36X48	12.00						PASS WITH CARE
R4-7a	36X48	12.00						KEEP RIGHT (HORIZONTAL ARROW)
R4-8a	36X48	12.00						KEEP LEFT (HORIZONTAL ARROW)
R5-1	30X30	6.25						DO NOT ENTER
R5-1a	36X24	6.00						WRONG WAY
R6-1L	54X18	6.75						ONE WAY ARROW (LEFT)
R6-1R	54X18	6.75						ONE WAY ARROW (RIGHT)
R6-2L	24X30	5.00						ONE WAY (LEFT)
R6-2R	24X30	5.00						ONE WAY (RIGHT)
R9-9	24X12	2.00						SIDEWALK CLOSED
R9-11L	24X18	3.00						SIDEWALK CLOSED AHEAD, (ARROW LEFT) CROSS HERE
R9-11R	24X18	3.00						SIDEWALK CLOSED AHEAD, (ARROW RIGHT) CROSS HERE
R10-6	24X36	6.00						STOP HERE ON RED (45^ ARROW)
R11-2	48X30	10.00						ROAD CLOSED
R11-3a	60X30	12.50						ROAD CLOSED XX MILES AHEAD LOCAL TRAFFIC ONLY
R11-4	60X30	12.50						ROAD CLOSED TO THRU TRAFFIC
CONST-3A	60X48	20.00						FINE SIGN
CONST-3X	56X12	4.67						SPEEDING/PASSING (PLATE)
MISCELLANEOUS SIGNS								
CONST-5	48X36	12.00						POINT OF PRESENCE
CONST-5	96X48	32.00						POINT OF PRESENCE
CONST-8	48X36	12.00	2	24.00				WORK ZONE NO PHONE ZONE
CONST-7-48	48X24	8.00	2	16.00				RATE OUR WORK ZONE

616-10.05 CONSTRUCTION SIGNS	TOTAL 464	
616-10.10 RELOCATED SIGNS		TOTAL

EFFECTIVE: 07-01-2025

ITEM NUMBER	TOTAL QTY	DESCRIPTION
6122008		IMPACT ATTENUATOR 40 MPH (SAND BARRELS)
6122009		IMPACT ATTENUATOR 45 MPH (SAND BARRELS)
6122010		IMPACT ATTENUATOR 50 MPH (SAND BARRELS)
6122012		IMPACT ATTENUATOR 55 MPH (SAND BARRELS)
6122014		IMPACT ATTENUATOR 60 MPH (SAND BARRELS)
6122017		IMPACT ATTENUATOR 65 MPH (SAND BARRELS)
6122019		IMPACT ATTENUATOR 70 MPH (SAND BARRELS)
6122020		REPLACEMENT SAND BARREL
6122030		IMPACT ATTENUATOR (RELOCATION)
6122040		WORK ZONE CRASH CUSHION (NARROW)
6122041		WORK ZONE CRASH CUSHION (RELOCATION)
6123001		TRUCK MOUNTED ATTENUATOR (TMA)
6161012		BUOYS (BOATS KEEP OUT)
6161013		BUOYS (NO WAKE)
6161014		SPECIAL SIGN ASSEMBLY (BOATS KEEP OUT)
6161020		CHANNELIZER (DRUM-LIKE)
6161022		CHANNELIZER (CONE)
6161025	30	CHANNELIZER (TRIM-LINE)
6161026		CHANNELIZER (VERTICAL PANEL)
6161030		TYPE 3 MOVEABLE BARRICADE
6161033		DIRECTION INDICATOR BARRICADE
6161040		FLASHING ARROW PANEL
6161047		TYPE 3 OBJECT MARKER
6161055		SEQUENTIAL FLASHING WARNING LIGHT
6161070		TUBULAR MARKER
6161095		RADAR SPEED ADVISORY SYSTEM
6161096		CHANGEABLE MESSAGE SIGN, COMMISSION FURNISHED/RETAINED
6161098A		CHANGEABLE MESSAGE SIGN WITHOUT COMM. INTERFACE, CONTRACTOR FURNISHED/RETAINED
6161099		CHANGEABLE MESSAGE SIGN WITH COMM. INTERFACE, CONTRACTOR FURNISHED/RETAINED
6162000A		WORK ZONE TRAFFIC SIGNAL SYSTEM
6162002		TEMPORARY LONG-TERM RUMBLE STRIPS
6173600D		TEMPORARY TRAFFIC BARRIER, CONTRACTOR FURNISHED/RETAINED
6173700B		TEMP. TRAFFIC BARRIER ANCHORED, CONTRACTOR FURNISHED/RETAINED
6173706		TEMP. TRAFFIC BARRIER STIFFNESS TRANSITION CONTRACTOR FURNISHED/RETAINED
6174000A		TEMP. TRAFFIC BARRIER HEIGHT TRANSITION, CONTRACTOR FURNISHED/RETAINED
6175010A		RELOCATING TEMPORARY TRAFFIC BARRIER
6175011B		RELOCATING TEMP. TRAFFIC BARRIER ANCHORED
6175013		RELOCATING TEMP. TRAFFIC BARRIER STIFFNESS
6175020A		RELOCATING TEMP. TRAFFIC BARRIER HEIGHT
6208064A		TEMPORARY RAISED PAVEMENT MARKER
9029400		TEMPORARY TRAFFIC SIGNALS
9029401		TEMPORARY TRAFFIC SIGNALS AND LIGHTING

TEMPORARY TRAFFIC CONTROL
1 LUMP SUM

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 ON FIELD CONDITIONS.

* REFER TO STANDARD PLANS SHEETS 616.20 FOR ADDITIONAL TEMPORARY TRAFFIC CONTROL.

SUMMARY OF QUANTITIES
4 OF 4

STATE OF MISSOURI
WILLIAM R. BUCK
NUMBER
PE-025272
PROFESSIONAL ENGINEER
09/17/2025

William R. Buck, P.E.
MO PE-025272

DATE PREPARED
9/12/2025

ROUTE	STATE
VV	MO
DISTRICT	SHEET NO.
SE	3

COUNTY
DENT & TEXAS

JOB NO.
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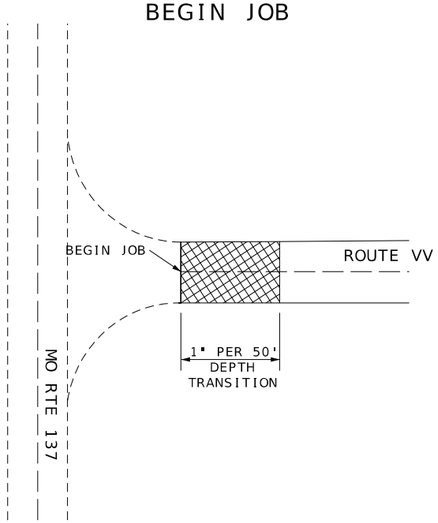
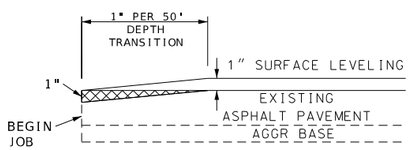
2300 S. State Route 291, Bldg. I, Independence, MO 64057
816.373.8000 | powell.cwm.com
Certificates of Authority
Architecture: MO 280 / AS-23
Engineering: MO-4 / ES-348
Land Surveying: MO 033 / BS-36

BEGIN JOB

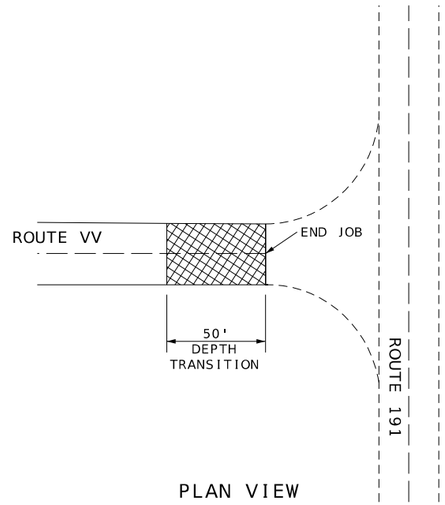


PLAN VIEW

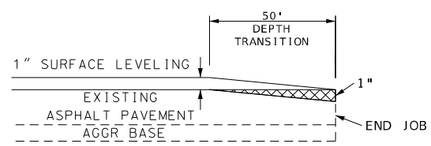


TYPICAL

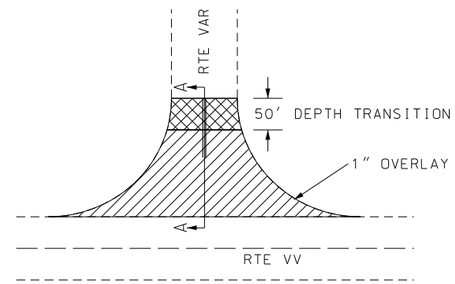
END JOB



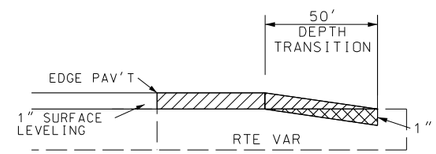
PLAN VIEW



TYPICAL



TYPICAL STATE ROUTE JUNCTION



TYPICAL
SECTION A-A

NOTES

COLDMILLING

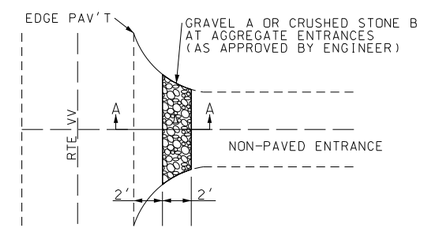
GRADING

GRAVEL A OR CRUSHED STONE B

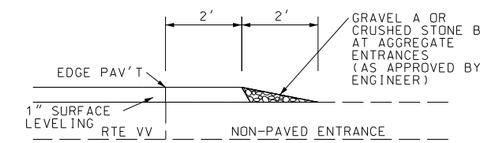
ALL GRADING NECESSARY FOR THE PROPER CONSTRUCTION OF HOT MIX AND AGGREGATE APRONS SHALL BE CONSIDERED INCIDENTAL WORK AND AT NO DIRECT PAY.

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

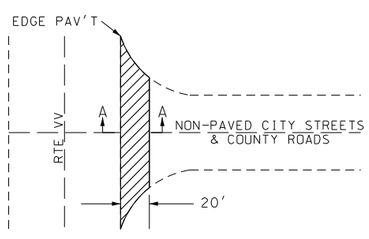
LOG MILE LOCATIONS APPROXIMATE ADJUST AS DIRECTED BY ENGINEER TO FIT FIELD CONDITIONS.



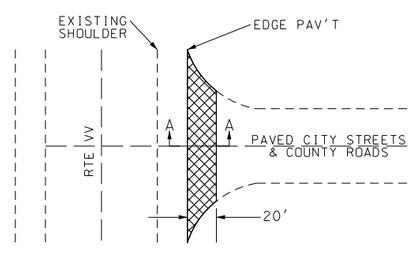
PLAN VIEW FOR NON-PAVED
FIELD OR PRIVATE ENTRANCES
WITH EXISTING APRON



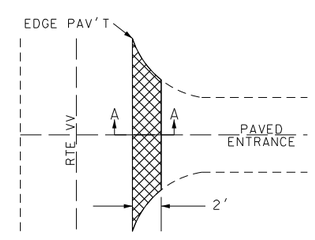
TYPICAL
SECTION A-A



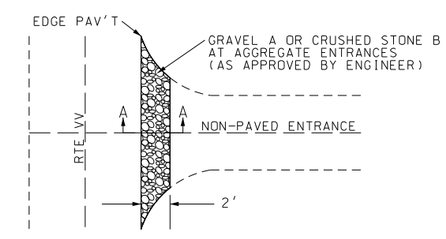
PLAN VIEW FOR NON-PAVED
CITY STREETS AND COUNTY ROADS



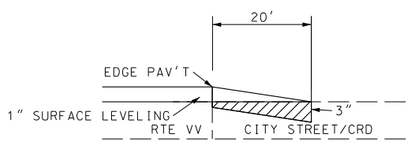
PLAN VIEW FOR PAVED CITY
STREETS AND COUNTY ROADS



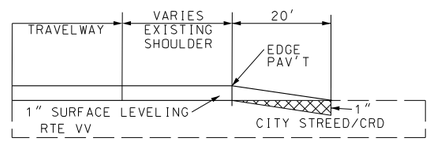
PLAN VIEW FOR PAVED
FIELD OR PRIVATE ENTRANCES



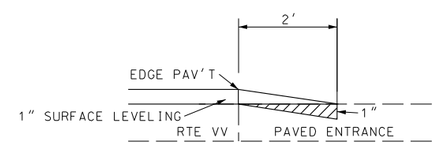
PLAN VIEW FOR NON-PAVED
FIELD OR PRIVATE ENTRANCES
WITHOUT EXISTING APRON



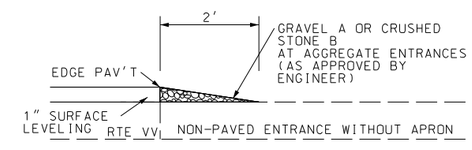
TYPICAL
SECTION A-A



TYPICAL
SECTION A-A



TYPICAL
SECTION A-A



TYPICAL
SECTION A-A

DRAWING NOT TO SCALE

SPECIAL SHEET
1 OF 1

STATE OF MISSOURI
WILLIAM R. BUCK
NUMBER
PE-025272
PROFESSIONAL ENGINEER

10/13/2025

William R. Buck, P.E.
Mo PE 025272

DATE PREPARED	
10/13/2025	
ROUTE	STATE
VV	MO
DISTRICT	SHEET NO.
SE	4
COUNTY	
DENT & TEXAS	
JOB NO.	
JSE0007	
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)

POWELL CWM
ARCHITECTURE/ENGINEERING/SURVEYING
3200 S. State Route 291, Bldg. 1, Independence, MO 64057
816.373.4800 | powellcwm.com

Certificates of Authority
Architecture: MO 310 / KS 73
Engineering: MO 4 / KS 241
Land Surveying: MO 123 / KS 36

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

PLANS FOR PROPOSED STATE HIGHWAY

HOWELL COUNTY

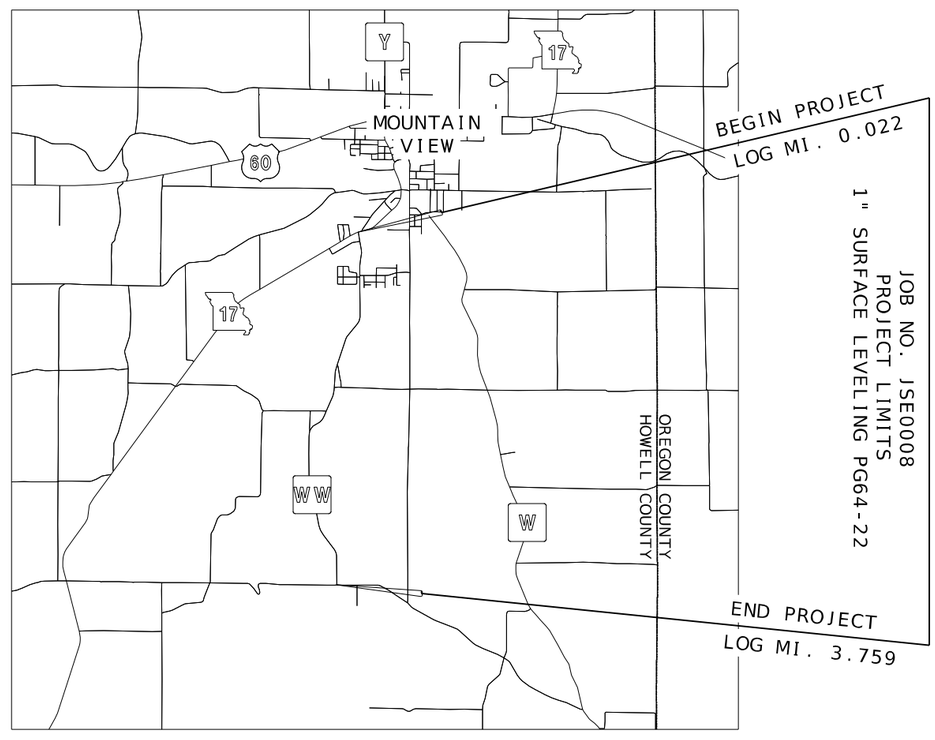
DESIGN DESIGNATION

A.A.D.T. - 2026 = 925
A.A.D.T. - 2026 = 1025
D.H.V. = 9%
T = 16%
V = 25-60 M.P.H.
D = 50%

FUNCTIONAL CLASSIFICATION- MINOR COLLECTOR

NO RIGHT OF WAY TO BE ACQUIRED

KEY MAP
LOCATION OF HOWELL COUNTY



CONVENTIONAL SYMBOLS
(USED IN PLANS)

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

NOTE: DASHED OR OPEN SYMBOLS INDICATE EXISTING FEATURES

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) (1 SHEET)	2
QUANTITIES (QU) (3 SHEETS)	3
SPECIAL SHEETS (SS)	4

LENGTH OF PROJECT

BEGINNING OF PROJECT — LOG MILE 0.022
END OF PROJECT — LOG MILE 3.759

APPARENT LENGTH — 19731.4 FEET

EQUATIONS AND EXCEPTIONS:

TOTAL CORRECTIONS — 0.00 FEET
NET LENGTH OF PROJECT — 19731.4 FEET
STATE LENGTH — 3.737 MILES

STATE OF MISSOURI
WILLIAM R. BUCK
NUMBER
PE-025272
PROFESSIONAL ENGINEER
10/13/2025
William R. Buck, P.E.
Mo PE 025272

DATE PREPARED	
10/13/2025	
ROUTE: WW	STATE: MO
DISTRICT: SE	SHEET NO.: 1
COUNTY: HOWELL	
JOB NO.: JSE0008	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
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NOTES:

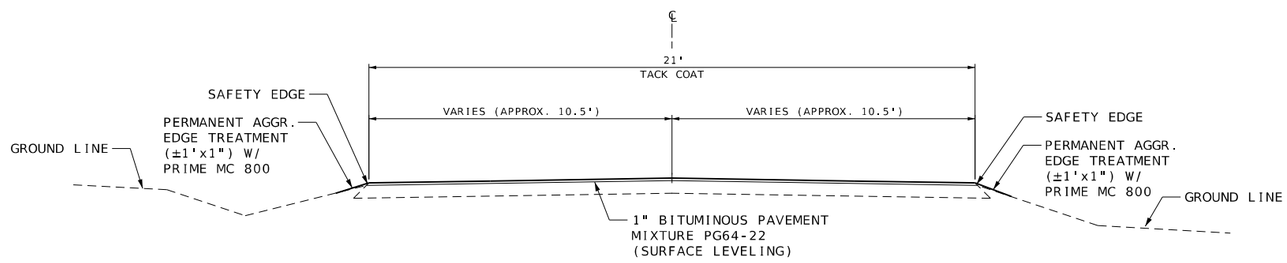
1. SURFACE PLACEMENT SHALL BE ONE PASS PER LANE, MATCH EXISTING PAVEMENT CROSS SLOPE. NO SUPERELEVATION CORRECTION.
2. SEE STANDARD PLAN 401.00 FOR SAFETY EDGE REQUIREMENTS.
3. EXISTING TYPICALS ARE FOR INFORMATION ONLY. PAVEMENT LAYERS MAY VARY FROM TYPICALS.
4. LOG MILE LOCATIONS APPROXIMATE. ADJUST AS DIRECTED BY ENGINEER TO FIT FIELD CONDITIONS.
5. PERMANENT AGGR. EDGE TREATMENT W/ PRIME MC 800 SHALL BE APPLIED ALONG EOP TO ACHIEVE A 3:1 SLOPE FOR THE ENTIRE LENGTH OF APPLICATION.
6. PERMANENT AGGREGATE EDGE TREATMENT WILL BE PAID FOR UNDER PAY ITEM 3049910 PER TON AND PRIME MC 800 WILL BE PAID FOR UNDER PAY ITEM 4081018 PER GAL.

ASPHALT FACTORS	
MATERIAL	TONS/C.Y.
1" SL PG64-22	2.034
IRREGULARITIES	150 TON/MILE

TACK COAT APPLICATION RATE
0.10 GAL/YD² (UNDILUTED)

PERMANENT AGGR. EDGE TREATMENT
1.40 TON/YD³

PRIME MC 800 APPLICATION RATE
0.25 GAL/YD²



TYPICAL SECTION ON TANGENT
ROUTE WW
LOG MILE 0.022 TO LOG MILE 3.759

DRAWING NOT TO SCALE
FOLLOW DIMENSIONS

ROUTE WW
TYPICAL SHEET
1 OF 1

STATE OF MISSOURI
WILLIAM R. BUCK
NUMBER
PE-025272
PROFESSIONAL ENGINEER
10/13/2025
William R. Buck, P.E.
Mo PE 025272

DATE PREPARED	
10/13/2025	
ROUTE: WW	STATE: MO
DISTRICT: SE	SHEET NO.: 2
COUNTY: HOWELL	
JOB NO.: JSE0008	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
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COLDMILLING

LOG MILE	LOG MILE	LOC	LENGTH FT	WIDTH FT	MODIFIED DEPTH TRANSITION SY	REMARKS
0.022	0.031	CL	50.00	21	116.7	BEGIN PROJECT
0.114	0.118	LT	21.12	2	4.7	DRIVEWAY (PAVED)
3.750	3.759	CL	50.00	21	116.7	END PROJECT
0.091	0.095	RT	21.12	20	46.9	WADE STREET (PAVED)
0.114	0.118	LT	21.12	2	4.7	DRIVEWAY (PAVED)
0.437	0.447	LT	52.80	20	117.3	WEBB STREET (PAVED)
0.453	0.463	RT	52.80	20	117.3	HOCKMAN STREET (PAVED)
0.562	0.565	RT	15.84	2	3.5	DRIVEWAY (PAVED)
				TOTAL	527.8	
				USE	528	

LOG MILES ARE APPROXIMATE. EXACT LOCATIONS TO BE DETERMINED BY ENGINEER.

MOBILIZATION

1 LUMP SUM

PAVEMENT MARKING

LOG MILE	LOG MILE	LOCATION	CLASS 1 PAVEMENT MARKING PAINT (8-MIL, TYPE P BEADS) 4" WHITE (L.F.)	4" YELLOW (L.F.)	REMARKS
0.022	3.759	ROUTE WW RT	19731.4		EDGELINE
0.022	3.759	ROUTE WW LT	19731.4		EDGELINE
0.022	2.859	ROUTE WW CL		29958.7	CL DOUBLE YELLOW
2.859	2.966	ROUTE WW CL		1129.9	CL DOUBLE YELLOW WITH PASSING SOUTHBOUND
2.966	3.030	ROUTE WW CL		675.8	CL DOUBLE YELLOW
3.030	3.141	ROUTE WW CL		1172.2	CL DOUBLE YELLOW PASSING NORTHBOUND
3.141	3.461	ROUTE WW CL		3379.2	CL DOUBLE YELLOW
3.461	3.549	ROUTE WW CL		929.3	CL DOUBLE YELLOW PASSING SOUTHBOUND
3.549	3.636	ROUTE WW CL		918.7	CL DOUBLE YELLOW
3.636	3.717	ROUTE WW CL		855.4	CL DOUBLE YELLOW PASSING NORTHBOUND
3.717	3.759	ROUTE WW CL		443.5	CL DOUBLE YELLOW
		TOTAL	39,462.8	39,462.7	
		USE	39,463	39,463	

SUMMARY OF QUANTITIES
1 OF 3

STATE OF MISSOURI
WILLIAM R. BUCK
NUMBER PE-025272
PROFESSIONAL ENGINEER

10/15/2025

William R. Buck, P.E.
Mo PE-025272

DATE PREPARED
10/15/2025

ROUTE	STATE
WW	MO
DISTRICT	SHEET NO.
SE	3

COUNTY
HOWELL

JOB NO.
JSE0008

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION	DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
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ROADWAY & ENTRANCE PAVEMENT

LOG MILE	LOG MILE	LOC	LENGTH FT	WIDTH FT	MEASURED AREA SY	THICK IN	BITUMINOUS PAVEMENT MIXTURE PG64-22 (SURFACE LEVELING) (2.034 TON/CY) (TON)	TACK COAT (0.10 GAL/SY) (GAL)	GRAVEL A OR CRUSHED STONE (B) (SY)	PERMANENT AGGR. EDGE TREATMENT (1.40 TON/CY) (TON)	MC 800 PRIME (0.25 GAL/SY) (GAL)	REMARKS
0.022	1.407	CL	7313	21.0	17063.7	1.0	963.7	1706.4		31.6	203.1	HWY 17 TO ROUTE 3510
1.407	1.634	CL	1199	21.0	2797.7	1.0	158.1	279.8		5.2	33.3	ROUTE 3510 TO ROUTE 2960
1.634	1.891	CL	1357	21.0	3166.3	1.0	178.9	316.6		5.9	37.7	ROUTE 2960 TO ROUTE 2900
1.891	2.157	CL	1404	21.0	3276.0	1.0	185.1	327.6		6.1	39.0	ROUTE 2900 TO ROUTE 3430
2.157	3.759	CL	8459	21.0	19737.7	1.0	1115.2	1973.8		36.6	235.0	ROUTE 3430 TO ROUTE 2660
							566.6					150 TONS/MILE FOR IRREGULARITIES
0.041	0.044	RT	16	2.0	3.6	1.0	0.2	0.4				DRIVEWAY (PAVED)
0.091	0.095	RT	21	20.0	46.7	1.0	2.6	4.7				WADE STREET (PAVED)
0.114	0.118	LT	21	2.0	4.7	1.0	0.3	0.5				DRIVEWAY (PAVED)
0.138	0.140	LT	11	2.0	2.4	1.0	0.1	0.2	2.3			DRIVWWAY
0.201	0.203	RT	11	2.0	2.4	1.0			2.3			FIELD ENTRANCE (NON-PAVED)
0.209	0.212	RT	16	2.0	3.6	1.0	0.2	0.4	3.5			DRIVEWAY
0.212	0.216	LT	21	2.0	4.7	1.0	0.3	0.5	4.7			DRIVEWAY
0.279	0.282	RT	16	2.0	3.6	1.0	0.2	0.4	3.5			DRIVEWAY
0.292	0.297	LT	26	2.0	5.8	1.0	0.3	0.6	5.9			DRIVEWAY
0.303	0.306	RT	16	2.0	3.6	1.0	0.2	0.4	3.5			DRIVEWAY
0.318	0.322	LT	21	2.0	4.7	1.0	0.3	0.5	4.7			DRIVEWAY
0.342	0.345	RT	16	2.0	3.6	1.0	0.2	0.4	3.5			DRIVEWAY
0.395	0.399	LT	21	2.0	4.7	1.0	0.3	0.5	4.7			DRIVEWAY
0.422	0.425	LT	16	2.0	3.6	1.0	0.2	0.4	3.5			DRIVEWAY
0.437	0.447	LT	53	20.0	117.8	1.0	6.7	11.8				WEBB STREET (PAVED)
0.453	0.463	RT	53	20.0	117.8	1.0	6.7	11.8				HOCKMAN STREET (PAVED)
0.562	0.565	RT	16	2.0	3.6	1.0	0.2	0.4				DRIVEWAY (PAVED)
0.588	0.593	LT	26	2.0	5.8	1.0	0.3	0.6	5.9			DRIVEWAY
0.632	0.634	RT	11	2.0	2.4	1.0	0.1	0.2	2.3			DRIVEWAY
0.648	0.652	LT	21	2.0	4.7	1.0	0.3	0.5	4.7			DRIVEWAY
0.853	0.855	RT	11	2.0	2.4	1.0	0.1	0.2	2.3			DRIVEWAY
0.953	0.960	LT	37	2.0	8.2	1.0	0.5	0.8	8.2			DRIVEWAY
1.088	1.095	LT	37	2.0	8.2	1.0	0.5	0.8	8.2			DRIVEWAY
1.118	1.123	RT	26	20.0	57.8	3.0	9.9	5.8				ROAD 2792 (UNPAVED)
1.239	1.243	RT	21	2.0	4.7	1.0	0.3	0.5	4.7			DRIVEWAY
1.380	1.386	RT	32	2.0	7.1	1.0	0.4	0.7	7.0			DRIVEWAY W/MAILBOX
1.402	1.410	LT	42	20.0	93.3	3.0	15.9	9.3				ROUTE 3510 (UNPAVED)
1.480	1.482	LT	11	2.0	2.4	1.0			2.3			FIELD ENTRANCE (NON-PAVED)
1.629	1.638	LT	48	20.0	106.7	3.0	18.0	10.7				ROUTE 2690 (UNPAVED)
1.707	1.714	LT	37	2.0	8.2	1.0	0.5	0.8	8.2			DRIVEWAY
1.882	1.897	RT	79	20.0	175.6	3.0	29.7	17.6				ROUTE 2900 (UNPAVED)
2.000	2.004	LT	21	2.0	4.7	1.0	0.3	0.5	4.7			DRIVEWAY
2.029	2.034	LT	26	2.0	5.8	1.0	0.3	0.6	5.9			DRIVEWAY
2.145	2.154	RT	48	20.0	106.7	3.0	18.0	10.7				ROUTE 3430 (UNPAVED)
2.222	2.225	RT	16	2.0	3.6	1.0	0.2	0.4	3.5			DRIVEWAY
2.236	2.247	LT	58	2.0	12.9	1.0	0.7	1.3	12.9			DRIVEWAY
2.333	2.338	RT	26	2.0	5.8	1.0	0.3	0.6	5.9			DRIVEWAY
2.344	2.348	LT	21	2.0	4.7	1.0	0.3	0.5	4.7			DRIVEWAY
2.701	2.705	LT	21	2.0	4.7	1.0	0.3	0.5	4.7			DRIVEWAY
2.717	2.724	LT	37	2.0	8.2	1.0	0.5	0.8	8.2			DRIVEWAY
2.717	2.724	RT	37	2.0	8.2	1.0	0.5	0.8	8.2			DRIVEWAY
2.796	2.800	RT	21	2.0	4.7	1.0	0.3	0.5	4.7			DRIVEWAY
2.812	2.817	RT	26	2.0	5.8	1.0	0.3	0.6	5.9			DRIVEWAY
2.833	2.837	RT	21	2.0	4.7	1.0	0.3	0.5	4.7			DRIVEWAY
3.063	3.069	LT	32	2.0	7.1	1.0	0.4	0.7	7.0			DRIVEWAY
3.171	3.178	LT	37	2.0	8.2	1.0	0.5	0.8	8.2			DRIVEWAY W/MAILBOX
3.257	3.265	LT	42	2.0	9.3	1.0	0.5	0.9	9.4			DRIVEWAY
3.260	3.263	RT	16	2.0	3.6	1.0			3.5			FIELD ENTRANCE (NON-PAVED)
3.418	3.438	LT	106	2.0	23.6	1.0	1.3	2.4	23.5			DRIVEWAY
3.519	3.524	RT	26	2.0	5.8	1.0	0.3	0.6	5.9			DRIVEWAY
3.728	3.733	LT	26	2.0	5.8	1.0	0.3	0.6	5.9			DRIVEWAY
						SUBTOTAL	3288.7	4710.9	233.3	85.4	548.1	
							65.8					SAFETY EDGE (2% OF SUBTOTAL)
						TOTAL	3354.5	4710.9	233.3	85.4	548.1	
						USE	3,354.5	4,711	234	85.4	549	

LOG MILES ARE APPROXIMATE. EXACT LOCATIONS TO BE DETERMINED BY ENGINEER.

SUMMARY OF QUANTITIES
2 OF 3

STATE OF MISSOURI
WILLIAM R. BUCK
NUMBER
PE-025272
PROFESSIONAL ENGINEER

10/15/2025

William R. Buck, P.E.
Mo PE-025272

DATE PREPARED
10/15/2025

ROUTE	STATE
WW	MO
DISTRICT	SHEET NO.
SE	3

COUNTY
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SIGN	SIZE IN.	AREA SQ.FT.	QTY EACH	TOTAL AREA SQ.FT.	QTY RELOC EACH	TOTAL RELOC SQ.FT.	SIGN NO.	DESCRIPTION
WARNING SIGNS								
WO1-1L	48X48	16.00						TURN (SYMBOL LEFT)
WO1-1R	48X48	16.00						TURN (SYMBOL RIGHT)
WO1-2L	48X48	16.00						CURVE (SYMBOL LEFT)
WO1-2R	48X48	16.00						CURVE (SYMBOL RIGHT)
WO1-3L	48X48	16.00						REVERSE TURN (SYMBOL LEFT)
WO1-3R	48X48	16.00						REVERSE TURN (SYMBOL RIGHT)
WO1-4L	48X48	16.00						REVERSE CURVE (SYMBOL LEFT)
WO1-4R	48X48	16.00						REVERSE CURVE (SYMBOL RIGHT)
WO1-4bL	48X48	16.00						DOUBLE ARROW REVERSE CURVE (SYMBOL LEFT)
WO1-4bR	48X48	16.00						DOUBLE ARROW REVERSE CURVE (SYMBOL RIGHT)
WO1-4cL	48X48	16.00						TRIPLE ARROW REVERSE CURVE (SYMBOL LEFT)
WO1-4cR	48X48	16.00						TRIPLE ARROW REVERSE CURVE (SYMBOL RIGHT)
WO1-6	60X30	12.50						HORIZONTAL ARROW (SYMBOL)
WO1-6a	72X36	18.00						HORIZ. ARROW (SYMBOL ON PERMANENT BARRICADE)
WO1-7	60X30	12.50						DOUBLE HEAD HORIZONTAL ARROW (SYMBOL)
WO1-7a	72X36	18.00						DOUBLE HEAD HORIZ. ARROW (SYMBOL ON PERM. BARR.)
WO1-8	18X24	3.00						CHEVRON (SYMBOL)
WO1-8a	30X36	7.50						CHEVRON (SYMBOL FOR DIVIDED HIGHWAYS)
WO3-1	48X48	16.00						STOP AHEAD (SYMBOL)
WO3-2	48X48	16.00						YIELD AHEAD (SYMBOL)
WO3-3	48X48	16.00						SIGNAL AHEAD (SYMBOL)
WO3-4	48X48	16.00	1	16.00				BE PREPARED TO STOP
WO3-5	48X48	16.00						SPEED LIMIT AHEAD
WO4-1L	48X48	16.00						MERGE (SYMBOL FROM LEFT)
WO4-1R	48X48	16.00						MERGE (SYMBOL FROM RIGHT)
WO4-1aL	48X48	16.00						MERGE (LEFT)
WO4-1aR	48X48	16.00						MERGE (RIGHT)
WO5-1	48X48	16.00						ROAD/BRIDGE/RAMP NARROWS
WO5-3	48X48	16.00						ONE LANE BRIDGE
WO5-5	48X48	16.00						NARROW LANES
WO6-1	48X48	16.00						DIVIDED HIGHWAY (SYMBOL)
WO6-2	48X48	16.00						DIVIDED HIGHWAY END (SYMBOL)
WO6-3	48X48	16.00						TWO WAY TRAFFIC (SYMBOL)
WO7-3a	30X24	5.00						NEXT XX MILES (PLAQUE)
WO8-1	48X48	16.00						BUMP
WO8-2	48X48	16.00						DIP
WO8-3	48X48	16.00						PAVEMENT ENDS
WO8-4	48X48	16.00						SOFT SHOULDER
WO8-5	48X48	16.00						SLIPPERY WHEN WET (SYMBOL)
WO8-6	48X48	16.00						TRUCK CROSSING
WO8-6c	48X48	16.00						TRUCK ENTRANCE
WO8-7	36X36	9.00						LOOSE GRAVEL
WO8-7a	36X36	9.00						FRESH OIL / LOOSE GRAVEL
WO8-9	48X48	16.00						LOW SHOULDER
WO8-11	48X48	16.00	4	64.00				UNEVEN LANES
WO8-12	48X48	16.00	4	64.00				NO CENTER LINE
WO8-15	48X48	16.00						GROOVED PAVEMENT
WO8-15P	30X24	5.00						MOTORCYCLE (PLAQUE)
WO8-17L	48X48	16.00						SHOULDER DROP-OFF (SYMBOL LEFT)
WO8-17R	48X48	16.00						SHOULDER DROP-OFF (SYMBOL RIGHT)
WO8-17P	30X24	5.00						SHOULDER DROP-OFF (PLAQUE)
W10-1	42RND.	9.62						RAILROAD CROSSING
WO12-1	24X24	4.00						DOUBLE DOWN ARROW (SYMBOL)
WO12-2	48X48	16.00						LOW CLEARANCE (SYMBOL)
WO12-2x	24X18	3.00						LOW CLEARANCE (PLAQUE)
WO12-2a	84X24	14.00						OVERHEAD LOW CLEARANCE (FEET AND INCHES)
WO12-4	120X60	50.00						LOW CLEARANCE XX FT XX IN XX MILES AHEAD
WO12-5	120X60	50.00						WIDTH RESTRICTION XX FT XX IN XX MILES AHEAD
WO13-1	30X30	6.25						ADVISORY SPEED (PLAQUE)
WO16-2	30X24	5.00						XXX FEET (PLAQUE)
WO16-3	30X24	5.00						X MILE (PLAQUE)
WO20-1	48X48	16.00	5	80.00				ROAD/BRIDGE/RAMP WORK AHEAD
WO20-2	48X48	16.00						DETOUR AHEAD
WO20-3	48X48	16.00						ROAD CLOSED AHEAD
WO20-4	48X48	16.00	4	64.00				ONE LANE ROAD AHEAD
WO20-5	48X48	16.00						RIGHT/CENTER/LEFT LANE CLOSED AHEAD
WO20-5a	48X48	16.00						2 RIGHT/CENTER/LEFT LANES CLOSED AHEAD
WO20-6a	48X48	16.00						RIGHT/CENTER/LEFT LANE CLOSED
WO20-7a	48X48	16.00	5	80.00				FLAGGER (SYMBOL)
WO21-2	36X36	9.00						FRESH OIL
WO21-5	48X48	16.00						SHOULDER WORK / SHOULDER WORK AHEAD
WO22-1	48X48	16.00						BLASTING ZONE AHEAD
WO22-2	42X36	10.50						TURN OFF 2-WAY RADIO AND PHONE
WO22-3	42X36	10.50						END BLASTING ZONE
GO22-1	21X15	2.19	2	4.38				WET PAINT (ARROW PIVOTS)

SIGN	SIZE IN.	AREA SQ.FT.	QTY EACH	TOTAL SQ.FT.	QTY RELOC EACH	TOTAL RELOC SQ.FT.	SIGN NO.	DESCRIPTION
GUIDE SIGNS								
E05-1	36X48	12.00						GORE EXIT
E05-2	48X36	12.00						EXIT OPEN
E05-2a	48X36	12.00						EXIT CLOSED
GO20-1	60X24	10.00	2	20.00				ROAD WORK NEXT XX MILES
GO20-2	48X24	8.00	2	16.00				END ROAD WORK
GO20-4	36X18	4.50	1	4.50				PILOT CAR FOLLOW ME
GO20-4a	42X30	8.75	1	8.75				PILOT CAR IN USE WAIT & FOLLOW
GO20-4a	18X12	1.50	1	1.50				PILOT CAR IN USE WAIT & FOLLOW
GO20-5aP	36X24	6.00						WORK ZONE (PLAQUE)
MO4-8a	24X18	3.00						END DETOUR
MO4-9L	48X36	12.00						DETOUR (LEFT)
MO4-9R	48X36	12.00						DETOUR (RIGHT)
MO4-9P	48X12	4.00						STREET NAME (PLAQUE)
MO4-10L	48X18	6.00						DETOUR ARROW (LEFT)
MO4-10R	48X18	6.00						DETOUR ARROW (RIGHT)
REGULATORY SIGNS								
R1-1	48X48	13.25						STOP
R1-2	48TRI.	6.93						YIELD
R1-2a	36X36	9.00						TO ONCOMING TRAFFIC (PLAQUE)
R1-3P	30X12	2.50						ALL WAY (PLAQUE)
R2-1	36X48	12.00						SPEED LIMIT XX
R3-1	48X48	16.00						NO RIGHT TURN (SYMBOL)
R3-2	48X48	16.00						NO LEFT TURN (SYMBOL)
R3-3	36X36	9.00						NO TURNS
R3-4	48X48	16.00						NO U-TURN (SYMBOL)
R3-7L	30X30	6.25						LEFT LANE MUST TURN LEFT
R3-7R	30X30	6.25						RIGHT LANE MUST TURN RIGHT
R4-1	36X48	12.00						DO NOT PASS
R4-2	36X48	12.00						PASS WITH CARE
R4-7a	36X48	12.00						KEEP RIGHT (HORIZONTAL ARROW)
R4-8a	36X48	12.00						KEEP LEFT (HORIZONTAL ARROW)
R5-1	30X30	6.25						DO NOT ENTER
R5-1a	36X24	6.00						WRONG WAY
R6-1L	54X18	6.75						ONE WAY ARROW (LEFT)
R6-1R	54X18	6.75						ONE WAY ARROW (RIGHT)
R6-2L	24X30	5.00						ONE WAY (LEFT)
R6-2R	24X30	5.00						ONE WAY (RIGHT)
R9-9	24X12	2.00						SIDEWALK CLOSED
R9-11L	24X18	3.00						SIDEWALK CLOSED AHEAD, (ARROW LEFT) CROSS HERE
R9-11R	24X18	3.00						SIDEWALK CLOSED AHEAD, (ARROW RIGHT) CROSS HERE
R10-6	24X36	6.00						STOP HERE ON RED (45^ ARROW)
R11-2	48X30	10.00						ROAD CLOSED
R11-3a	60X30	12.50						ROAD CLOSED XX MILES AHEAD LOCAL TRAFFIC ONLY
R11-4	60X30	12.50						ROAD CLOSED TO THRU TRAFFIC
CONST-3A	60X48	20.00						FINE SIGN
CONST-3X	56X12	4.67						SPEEDING/PASSING (PLATE)
MISCELLANEOUS SIGNS								
CONST-5	48X36	12.00						POINT OF PRESENCE
CONST-5	96X48	32.00						POINT OF PRESENCE
CONST-8	48X36	12.00	2	24.00				WORK ZONE NO PHONE ZONE
CONST-7-48	48X24	8.00	2	16.00				RATE OUR WORK ZONE

616-10.05 CONSTRUCTION SIGNS	TOTAL	464
616-10.10 RELOCATED SIGNS		TOTAL

EFFECTIVE: 07-01-2025

ITEM NUMBER	TOTAL QTY	DESCRIPTION
6122008		IMPACT ATTENUATOR 40 MPH (SAND BARRELS)
6122009		IMPACT ATTENUATOR 45 MPH (SAND BARRELS)
6122010		IMPACT ATTENUATOR 50 MPH (SAND BARRELS)
6122012		IMPACT ATTENUATOR 55 MPH (SAND BARRELS)
6122014		IMPACT ATTENUATOR 60 MPH (SAND BARRELS)
6122017		IMPACT ATTENUATOR 65 MPH (SAND BARRELS)
6122019		IMPACT ATTENUATOR 70 MPH (SAND BARRELS)
6122020		REPLACEMENT SAND BARREL
6122030		IMPACT ATTENUATOR (RELOCATION)
6122040		WORK ZONE CRASH CUSHION (NARROW)
6122041		WORK ZONE CRASH CUSHION (RELOCATION)
6123001		TRUCK MOUNTED ATTENUATOR (TMA)
6161012		BUOYS (BOATS KEEP OUT)
6161013		BUOYS (NO WAKE)
6161014		SPECIAL SIGN ASSEMBLY (BOATS KEEP OUT)
6161020		CHANNELIZER (DRUM-LIKE)
6161022		CHANNELIZER (CONE)
6161025	30	CHANNELIZER (TRIM-LINE)
6161026		CHANNELIZER (VERTICAL PANEL)
6161030		TYPE 3 MOVEABLE BARRICADE
6161033		DIRECTION INDICATOR BARRICADE
6161040		FLASHING ARROW PANEL
6161047		TYPE 3 OBJECT MARKER
6161055		SEQUENTIAL FLASHING WARNING LIGHT
6161070		TUBULAR MARKER
6161095		RADAR SPEED ADVISORY SYSTEM
6161096		CHANGEABLE MESSAGE SIGN, COMMISSION FURNISHED/RETAINED
6161098A		CHANGEABLE MESSAGE SIGN WITHOUT COMM. INTERFACE, CONTRACTOR FURNISHED/RETAINED
6161099		CHANGEABLE MESSAGE SIGN WITH COMM. INTERFACE, CONTRACTOR FURNISHED/RETAINED
6162000A		WORK ZONE TRAFFIC SIGNAL SYSTEM
6162002		TEMPORARY LONG-TERM RUMBLE STRIPS
6173600D		TEMPORARY TRAFFIC BARRIER, CONTRACTOR FURNISHED/RETAINED
6173700B		TEMP. TRAFFIC BARRIER ANCHORED, CONTRACTOR FURNISHED/RETAINED
6173706		TEMP. TRAFFIC BARRIER STIFFNESS TRANSITION CONTRACTOR FURNISHED/RETAINED
6174000A		TEMP. TRAFFIC BARRIER HEIGHT TRANSITION, CONTRACTOR FURNISHED/RETAINED
6175010A		RELOCATING TEMPORARY TRAFFIC BARRIER
6175011B		RELOCATING TEMP. TRAFFIC BARRIER ANCHORED
6175013		RELOCATING TEMP. TRAFFIC BARRIER STIFFNESS
6175020A		RELOCATING TEMP. TRAFFIC BARRIER HEIGHT
6208064A		TEMPORARY RAISED PAVEMENT MARKER
9029400		TEMPORARY TRAFFIC SIGNALS
9029401		TEMPORARY TRAFFIC SIGNALS AND LIGHTING

TEMPORARY TRAFFIC CONTROL
1 LUMP SUM

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 ON FIELD CONDITIONS.

* REFER TO STANDARD PLAN SHEETS 616.20 FOR ADDITIONAL TEMPORARY TRAFFIC CONTROL.

SUMMARY OF QUANTITIES
3 OF 3

STATE OF MISSOURI
WILLIAM R. BUCK III
NUMBER PE-025272
PROFESSIONAL ENGINEER
09/17/2025
William R. Buck, P.E.
MO PE-025272

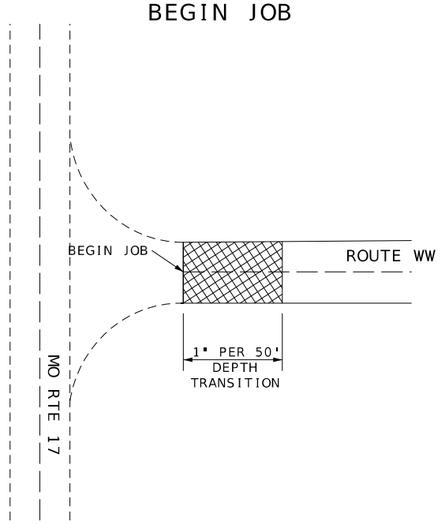
DATE PREPARED: 9/12/2025
ROUTE: WW
STATE: MO
DISTRICT: SE
SHEET NO.: 3
COUNTY: HOWELL
JOB NO.: JSE0008
CONTRACT ID.
PROJECT NO.
BRIDGE NO.

DESCRIPTION
DATE

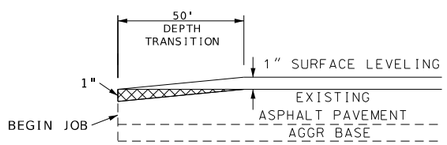
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

POWELL CWM
ARCHITECTURE/ENGINEERING/SURVEYING
2200 S. State Route 291, Bldg. I, Independence, MO 64057
816.373.8000 | powellcwm.com
Certificates of Authority
Architecture: MO 280 / AS-23
Engineering: MO-4 / ES-348
Land Surveying: MO 033 / BS-36

BEGIN JOB

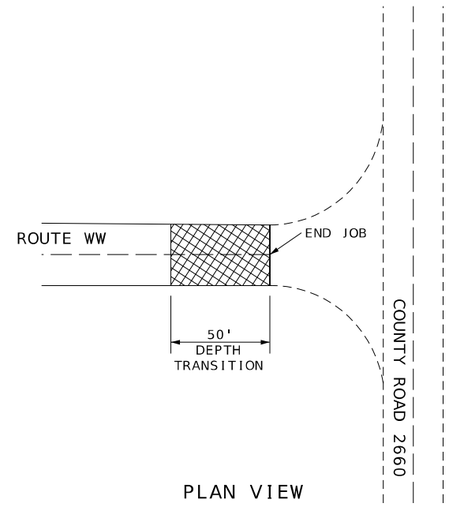


PLAN VIEW

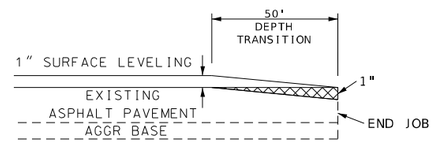


TYPICAL

END JOB



PLAN VIEW



TYPICAL

COLDMILLING

GRADING

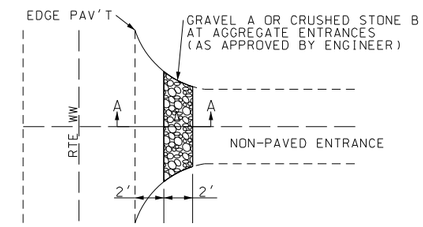
GRAVEL A OR CRUSHED STONE B

NOTES

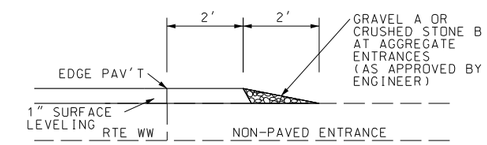
ALL GRADING NECESSARY FOR THE PROPER CONSTRUCTION OF HOT MIX AND AGGREGATE APRONS SHALL BE CONSIDERED INCIDENTAL WORK AND AT NO DIRECT PAY.

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

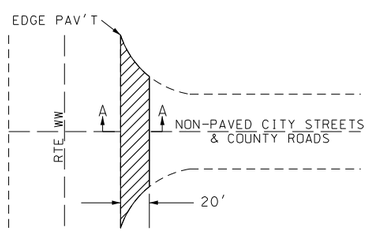
LOG MILE LOCATIONS APPROXIMATE ADJUST AS DIRECTED BY ENGINEER TO FIT FIELD CONDITIONS.



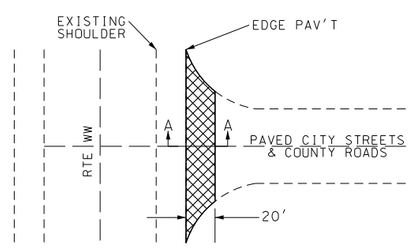
PLAN VIEW FOR NON-PAVED FIELD OR PRIVATE ENTRANCES WITH EXISTING APRON



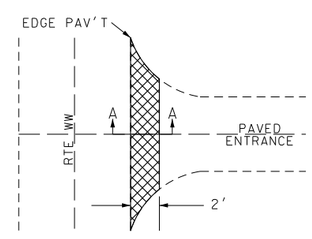
TYPICAL
SECTION A-A



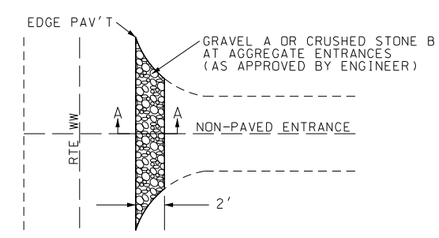
PLAN VIEW FOR NON-PAVED CITY STREETS AND COUNTY ROADS



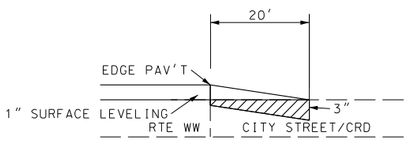
PLAN VIEW FOR PAVED CITY STREETS AND COUNTY ROADS



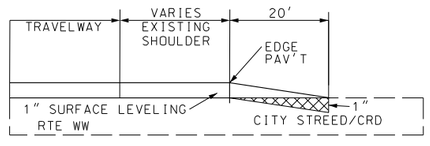
PLAN VIEW FOR PAVED FIELD OR PRIVATE ENTRANCES



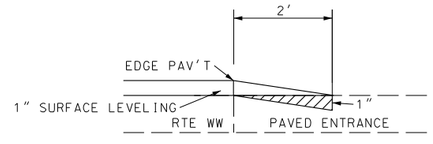
PLAN VIEW FOR NON-PAVED FIELD OR PRIVATE ENTRANCES WITHOUT EXISTING APRON



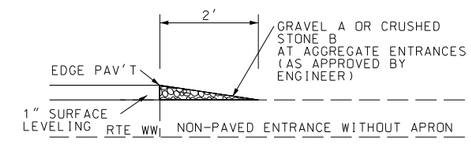
TYPICAL
SECTION A-A



TYPICAL
SECTION A-A



TYPICAL
SECTION A-A



TYPICAL
SECTION A-A

DRAWING NOT TO SCALE

SPECIAL SHEET
1 OF 1

STATE OF MISSOURI
WILLIAM R. BUCK
NUMBER
PE-025272
PROFESSIONAL ENGINEER

09/25/2025
William R. Buck, P.E.
Mo PE-025272

DATE PREPARED	
9/25/2025	
ROUTE	STATE
WW	MO
DISTRICT	SHEET NO.
SE	4
COUNTY	
HOWELL	
JOB NO.	
JSE0008	
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)

POWELL CWM
ARCHITECTURE/ENGINEERING/SURVEYING
2300 S. State Route 291, Bldg. I, Independence, MO 64057
816.373.8000 | powellcwm.com

Certificates of Authority
Architecture: MO 280 / KS 33
Engineering: MO 4 / KS 248
Land Surveying: MO 133 / KS 36

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

PLANS FOR PROPOSED STATE HIGHWAY

HOWELL COUNTY

DESIGN DESIGNATION

A.A.D.T. - 2026 = 650
A.A.D.T. - 2026 = 720
D.H.V. = 9%
T = 11%
V = 25-60 M.P.H.
D = 50%

FUNCTIONAL CLASSIFICATION- MINOR COLLECTOR

NO RIGHT OF WAY TO BE ACQUIRED

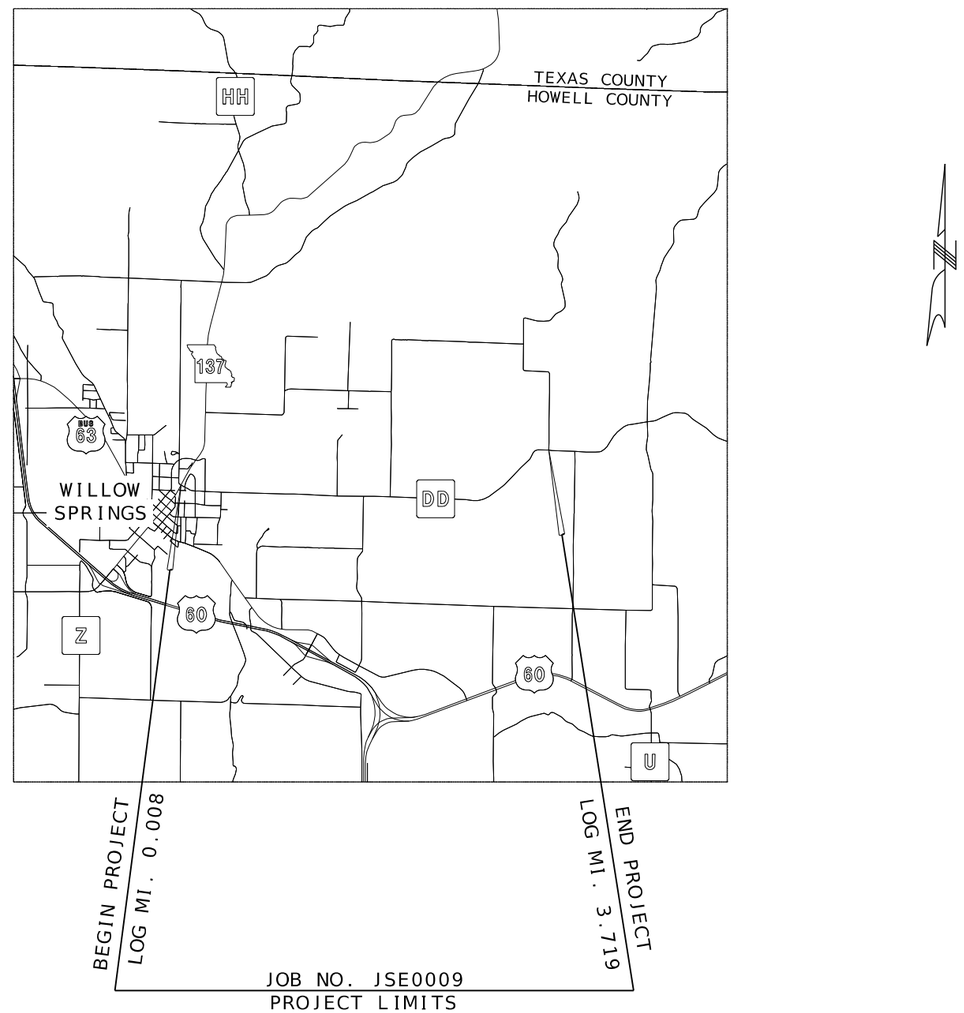
CONVENTIONAL SYMBOLS

(USED IN PLANS)

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

NOTE: DASHED OR OPEN SYMBOLS INDICATE EXISTING FEATURES

KEY MAP
LOCATION OF HOWELL COUNTY



JOB NO. JSE0009
PROJECT LIMITS
1" SURFACE LEVELING PG64-22

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) (1 SHEET)	2
QUANTITIES (QU) (3 SHEETS)	3
SPECIAL SHEETS (SS)	4

LENGTH OF PROJECT

BEGINNING OF PROJECT — LOG MILE 0.008
END OF PROJECT — LOG MILE 3.719

APPARENT LENGTH — 19,594.08 FEET

EQUATIONS AND EXCEPTIONS:

TOTAL CORRECTIONS — 0.00 FEET
NET LENGTH OF PROJECT — 19,594.08 FEET
STATE LENGTH — 3.711 MILES

STATE OF MISSOURI
WILLIAM R. BUCK
NUMBER
PE-025272
PROFESSIONAL ENGINEER

10/13/2025
William R. Buck, P.E.
Mo PE 025272

DATE PREPARED	
10/13/2025	
ROUTE: DD	STATE: MO
DISTRICT: SE	SHEET NO.: 1
COUNTY: HOWELL	
JOB NO.: JSE0009	
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)

POWELL CWM
ARCHITECTURE/ENGINEERING/SURVEYING
3200 S. State Route 291, Bldg. 1, Independence, MO 64057
816.373.4800 | powellcwm.com

Certificates of Authority
Architecture: MO 310 / KS 73
Engineering: MO 4 / KS 241
Land Surveying: MO 123 / KS 36

NOTES:

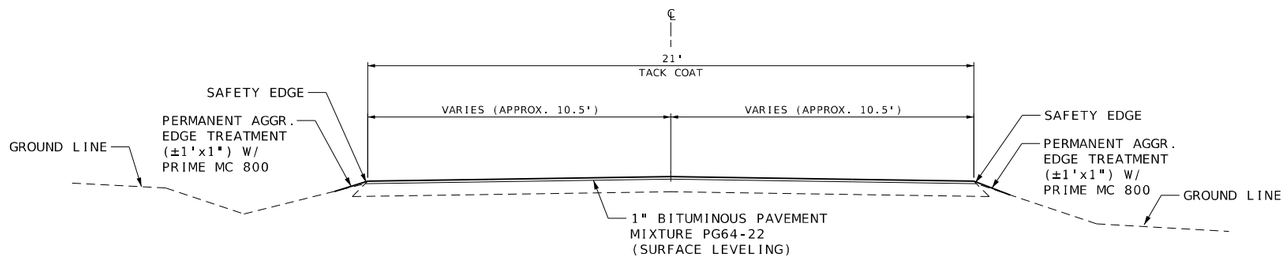
1. SURFACE PLACEMENT SHALL BE ONE PASS PER LANE, MATCH EXISTING PAVEMENT CROSS SLOPE. NO SUPERELEVATION CORRECTION.
2. SEE STANDARD PLAN 401.00 FOR SAFETY EDGE REQUIREMENTS.
3. EXISTING TYPICALS ARE FOR INFORMATION ONLY. PAVEMENT LAYERS MAY VARY FROM TYPICALS.
4. LOG MILE LOCATIONS APPROXIMATE. ADJUST AS DIRECTED BY ENGINEER TO FIT FIELD CONDITIONS.
5. PERMANENT AGGR. EDGE TREATMENT W/ PRIME MC 800 SHALL BE APPLIED ALONG EOP TO ACHIEVE A 3:1 SLOPE FOR THE ENTIRE LENGTH OF APPLICATION.
6. PERMANENT AGGREGATE EDGE TREATMENT WILL BE PAID FOR UNDER PAY ITEM 3049910 PER TON AND PRIME MC 800 WILL BE PAID FOR UNDER PAY ITEM 4081018 PER GAL.

ASPHALT FACTORS	
MATERIAL	TONS/C.Y.
1" SL PG64-22	2.034
IRREGULARITIES 150 TON/MILE	

TACK COAT APPLICATION RATE
0.10 GAL/YD² (UNDILUTED)

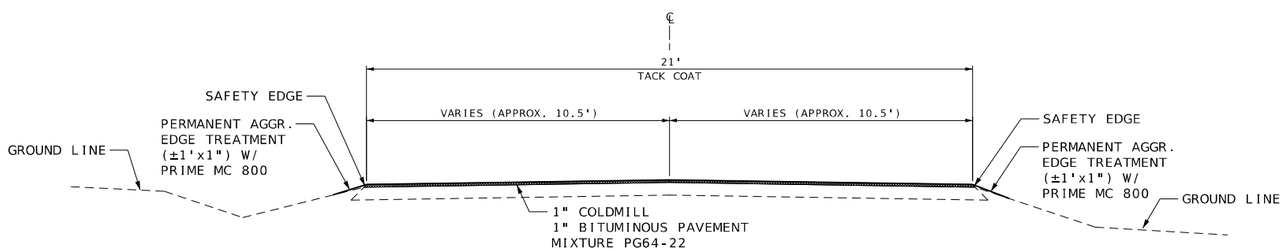
PERMANENT AGGR. EDGE TREATMENT
1.40 TON/YD³

PRIME MC 800 APPLICATION RATE
0.25 GAL/YD²



TYPICAL SECTION ON TANGENT

ROUTE DD
LOG MILE 0.008 TO LOG MILE 0.458
LOG MILE 0.494 TO LOG MILE 3.719



TYPICAL SECTION RIVER CROSSING

ROUTE DD
LOG MILE 0.458 TO LOG MILE 0.494

DRAWING NOT TO SCALE
FOLLOW DIMENSIONS

ROUTE DD
TYPICAL SHEET
1 OF 1

STATE OF MISSOURI
WILLIAM R. BUCK
NUMBER
PE-025272
PROFESSIONAL ENGINEER
09/17/2025

William R. Buck, P.E.
MO PE-025272

DATE PREPARED: 9/17/2025
ROUTE: DD
STATE: MO
DISTRICT: SE
SHEET NO.: 2
COUNTY: HOWELL
JOB NO.: JSE0009
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)

POWELL CWM
ARCHITECTURE/ENGINEERING/SURVEYING
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Certificates of Authority
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Engineering: MO 4 / KS 248
Land Surveying: MO 133 / KS 36

COLDMILLING

LOG MILE	LOG MILE	LOC	LENGTH FT	WIDTH FT	COLD MILLING BITUMINOUS PVMT. FOR REMOVAL OF SURFACING SY	MODIFIED DEPTH TRANSITION SY	REMARKS
0.008	0.017	CL	50.0	21		116.7	BEGIN PROJECT
3.710	3.719	CL	50.0	21		116.7	END PROJECT
0.034	0.050	LT	84.5	20		187.8	N ASH ST (PAVED)
0.042	0.051	RT	47.5	20		105.6	N ASH ST (PAVED)
0.141	0.151	RT	52.8	20		117.3	PINE ST (PAVED)
0.141	0.151	LT	52.8	20		117.3	PINE ST (PAVED)
0.173	0.180	LT	37.0	2		8.2	CEMENTARY ENTRANCE (PAVED)
0.235	0.246	RT	58.1	20		129.1	N BELSHE AVE. (PAVED)
0.235	0.246	LT	58.1	20		129.1	N BELSHE AVE. (PAVED)
0.263	0.267	RT	21.1	2		4.7	DRIVEWAY (PAVED)
0.360	0.365	LT	26.4	2		5.9	CEMENTARY ENTRANCE (PAVED)
0.388	0.391	LT	15.8	2		3.5	FIELD ENTRANCE (NON-PAVED)
0.387	0.405	RT	95.0	20		211.1	SUNSHINE DRIVE (PAVED)
0.448	0.458	CL	52.8	21		123.2	TRANSITION FOR DITCH #3
0.458	0.494	CL	190.1	21	443.6		DRAINAGE DITCH #3 CROSSING
0.494	0.503	CL	47.5	21		110.8	TRANSITION FOR DITCH #3
0.594	0.598	LT	21.1	2		4.7	DRIVEWAY W/MAILBOX (PAVED)
0.616	0.623	LT	37.0	2		8.2	DRIVEWAY (PAVED)
0.607	0.636	RT	153.1	2		34.0	AIRPORT ENTRANCE (PAVED)
0.798	0.806	LT	42.2	2		9.4	DRIVEWAY (PAVED)
1.500	1.511	LT	58.1	20		129.1	RTE 1210 (PAVED)
1.675	1.681	RT	31.7	2		7.0	DRIVEWAY (PAVED)
1.750	1.765	RT	79.2	20		176.0	RTE 1270 (PAVED)
				TOTAL	443.6	1855.4	
				USE	444	1856	

LOG MILES ARE APPROXIMATE. EXACT LOCATIONS TO BE DETERMINED BY ENGINEER.

MOBILIZATION

1 LUMP SUM

PAVEMENT MARKING

LOG MILE	LOG MILE	LOCATION	CLASS 1 PAVEMENT MARKING PAINT (8-MIL, TYPE P BEADS) 4" WHITE (L.F.)	4" YELLOW (L.F.)	REMARKS
0.008	3.719	ROUTE DD CL		39188.2	CL DOUBLE YELLOW
0.008	3.719	ROUTE DD LT	19594.1		EDGELINE
0.008	3.719	ROUTE DD RT	19594.1		EDGELINE
		TOTAL	39188.2	39188.2	
		USE	39,188	39,188	

SUMMARY OF QUANTITIES
1 OF 3

STATE OF MISSOURI
WILLIAM R. BUCK
NUMBER PE-025272
PROFESSIONAL ENGINEER
10/15/2025
William R. Buck, P.E.
Mo PE-025272

DATE PREPARED 10/15/2025
ROUTE DD | STATE MO
DISTRICT SE | SHEET NO. 3
COUNTY HOWELL
JOB NO. JSE0009
CONTRACT ID.
PROJECT NO.
BRIDGE NO.

DESCRIPTION
DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
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ROADWAY & ENTRANCE PAVEMENT

LOG MILE	LOG MILE	LOC	LENGTH FT	WIDTH FT	MEASURED AREA SY	THICK IN	BITUMINOUS PAVEMENT MIXTURE PG64-22 (SURFACE LEVELING) (2.034 TON/CY) (TON)	TACK COAT (0.10 GAL/SY) (GAL)	GRAVEL A OR CRUSHED STONE (B) (SY)	PERMANENT AGGR. EDGE TREATMENT (1.40 TON/CY) (TON)	MC 800 PRIME (0.25 GAL/SY) (GAL)	REMARKS
0.008	1.508	CL	7920.0	21.0	18480.0	1.0	1044.1	1848.0		34.2	220.0	HWT 137 TO ROUTE 1210
1.508	1.759	CL	1325.3	21.0	3092.4	1.0	174.7	309.2		5.7	36.8	ROUTE 1210 TO ROUTE 1270
1.759	2.016	CL	1357.0	21.0	3166.3	1.0	178.9	316.6		5.9	37.7	1270 TO ROUTE 1290
2.016	3.719	CL	8991.8	21.0	20980.9	1.0	1184.9	2098.1		38.9	249.8	ROUTE 1290 TO ROUTE 1590
							558.9					150 TONS/MILE FOR IRREGULARITIES
0.034	0.050	LT	84.5	20.0	187.8	1.0	10.6	18.8				N ASH ST (PAVED)
0.042	0.051	RT	47.5	20.0	105.6	1.0	6.0	10.6				N ASH ST (PAVED)
0.078	0.085	RT	37.0	2.0	8.2	1.0	0.5	0.8	8.2			DRIVEWAY
0.099	0.105	RT	31.7	2.0	7.0	1.0	0.4	0.7	7.0			DRIVEWAY
0.111	0.119	RT	42.2	2.0	9.4	1.0	0.5	0.9	9.4			DRIVEWAY
0.141	0.151	RT	52.8	20.0	117.3	1.0	6.6	11.7				PINE ST (PAVED)
0.141	0.151	LT	52.8	20.0	117.3	1.0	6.6	11.7				PINE ST (PAVED)
0.173	0.180	LT	37.0	2.0	8.2	1.0	0.5	0.8				CEMENTARY ENTRANCE (PAVED)
0.203	0.208	RT	26.4	2.0	5.9	1.0	0.3	0.6	5.9			DRIVEWAY
0.235	0.246	RT	58.1	20.0	129.1	1.0	7.3	12.9				N BELSHE AVE. (PAVED)
0.235	0.246	LT	58.1	20.0	129.1	1.0	7.3	12.9				N BELSHE AVE. (PAVED)
0.263	0.267	RT	21.1	2.0	4.7	1.0	0.3	0.5				DRIVEWAY (PAVED)
0.316	0.320	RT	21.1	2.0	4.7	1.0	0.3	0.5	4.7			DRIVEWAY
0.360	0.365	LT	26.4	2.0	5.9	1.0	0.3	0.6				CEMENTARY ENTRANCE (PAVED)
0.388	0.391	LT	15.8	2.0	3.5	1.0			3.5			FIELD ENTRANCE (NON-PAVED)
0.387	0.405	RT	95.0	20.0	211.1	1.0	11.9	21.1				SUNSHINE DRIVE (PAVED)
0.429	0.433	RT	21.1	2.0	4.7	1.0	0.3	0.5	4.7			DRIVEWAY
0.594	0.598	LT	21.1	2.0	4.7	1.0	0.3	0.5				DRIVEWAY W/MAILBOX (PAVED)
0.616	0.623	LT	37.0	2.0	8.2	1.0	0.5	0.8				DRIVEWAY (PAVED)
0.607	0.636	RT	153.1	2.0	34.0	1.0	1.9	3.4				AIRPORT ENTRANCE (PAVED)
0.650	0.663	LT	68.6	2.0	15.2	1.0	0.9	1.5	15.3			DRIVEWAY W/MAILBOX
0.746	0.752	LT	31.7	2.0	7.0	1.0			7.0			FIELD ENTRANCE (NON-PAVED)
0.798	0.806	LT	42.2	2.0	9.4	1.0	0.5	0.9				DRIVEWAY (PAVED)
0.816	0.823	RT	37.0	2.0	8.2	1.0	0.5	0.8	8.2			DRIVEWAY
0.925	0.933	LT	42.2	2.0	9.4	1.0	0.5	0.9	9.4			DRIVEWAY W/MAILBOX
0.951	0.958	RT	37.0	2.0	8.2	1.0	0.5	0.8	8.2			DRIVEWAY
0.965	0.971	RT	31.7	2.0	7.0	1.0	0.4	0.7	7.0			DRIVEWAY
0.992	0.998	LT	31.7	2.0	7.0	1.0	0.4	0.7	7.0			DRIVEWAY
1.021	1.029	LT	42.2	2.0	9.4	1.0	0.5	0.9	9.4			DRIVEWAY
1.070	1.079	LT	47.5	2.0	10.6	1.0	0.6	1.1	10.6			DRIVEWAY
1.090	1.096	RT	31.7	2.0	7.0	1.0	0.4	0.7	7.0			DRIVEWAY
1.198	1.207	LT	47.5	2.0	10.6	1.0	0.6	1.1	10.6			DRIVEWAY
1.276	1.283	RT	37.0	2.0	8.2	1.0	0.5	0.8	8.2			DRIVEWAY
1.447	1.455	RT	42.2	2.0	9.4	1.0	0.5	0.9	9.4			DRIVEWAY
1.455	1.461	LT	31.7	2.0	7.0	1.0	0.4	0.7	7.0			DRIVEWAY
1.500	1.511	LT	58.1	20.0	129.1	1.0	7.3	12.9				RTE 1210 (PAVED)
1.569	1.573	RT	21.1	2.0	4.7	1.0			4.7			FIELD ENTRANCE (NON-PAVED)
1.574	1.578	LT	21.1	2.0	4.7	1.0			4.7			FIELD ENTRANCE (NON-PAVED)
1.617	1.623	RT	31.7	2.0	7.0	1.0	0.4	0.7	7.0			DRIVEWAY
1.634	1.645	LT	58.1	2.0	12.9	1.0	0.7	1.3	12.9			DRIVEWAY
1.675	1.681	RT	31.7	2.0	7.0	1.0	0.4	0.7	0.0			DRIVEWAY (PAVED)
1.750	1.765	RT	79.2	20.0	176.0	1.0	9.9	17.6	0.0			RTE 1270 (PAVED)
1.821	1.826	LT	26.4	2.0	5.9	1.0	0.3	0.6	5.9			DRIVEWAY
2.008	2.023	LT	79.2	20.0	176.0	3.0	29.7	17.6				RTE 1290 (UNPAVED)
2.040	2.042	RT	10.6	2.0	2.4	1.0			2.3			FIELD ENTRANCE (NON-PAVED)
2.086	2.091	RT	26.4	2.0	5.9	1.0	0.3	0.6	5.9			DRIVEWAY
2.121	2.123	LT	10.6	2.0	2.4	1.0			2.3			FIELD ENTRANCE (NON-PAVED)
2.124	2.131	RT	37.0	2.0	8.2	1.0	0.5	0.8	8.2			DRIVEWAY
2.444	2.452	RT	42.2	2.0	9.4	1.0	0.5	0.9	9.4			DRIVEWAY
2.453	2.455	LT	10.6	2.0	2.4	1.0			2.3			FIELD ENTRANCE (NON-PAVED)
2.576	2.585	RT	47.5	2.0	10.6	1.0	0.6	1.1	10.6			DRIVEWAY
2.828	2.834	RT	31.7	2.0	7.0	1.0	0.4	0.7	7.0			DRIVEWAY
2.856	2.862	LT	31.7	2.0	7.0	1.0			7.0			FIELD ENTRANCE (NON-PAVED)
3.091	3.101	LT	52.8	2.0	11.7	1.0	0.7	1.2	11.7			DRIVEWAY
3.142	3.150	RT	42.2	2.0	9.4	1.0	0.5	0.9	9.4			DRIVEWAY
3.257	3.262	LT	26.4	2.0	5.9	1.0	0.3	0.6	5.9			DRIVEWAY
3.359	3.366	LT	37.0	2.0	8.2	1.0	0.5	0.8	8.2			DRIVEWAY
3.510	3.512	RT	10.6	2.0	2.4	1.0			2.3			FIELD ENTRANCE (NON-PAVED)
3.526	3.528	LT	10.6	2.0	2.4	1.0	0.1	0.2	2.3			DRIVEWAY
						SUBTOTAL	3264.2	4753.9	297.7	84.7	544.3	
							65.3					ASPHALT EDGE TREATMENT (2% OF SUBTOTALS)
						TOTAL	3329.5	4753.9	297.7	84.7	544.3	
						USE	3,329.5	4,754	298	84.7	545	

LOG MILES ARE APPROXIMATE. EXACT LOCATIONS TO BE DETERMINED BY ENGINEER.

SUMMARY OF QUANTITIES
2 OF 3

STATE OF MISSOURI
WILLIAM R. BUCK
NUMBER
PE-025272
PROFESSIONAL ENGINEER
10/15/2025

William R. Buck, P.E.
Mo PE-025272

DATE PREPARED
10/15/2025

ROUTE	STATE
DD	MO
DISTRICT	SHEET NO.
SE	3

COUNTY
HOWELL

JOB NO.
JSE0009

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION	DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
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JEFFERSON CITY, MO 65102
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Certificates of Authority
Architecture: MO 310 / KS 73
Engineering: MO 4 / KS 241
Land Surveying: MO 123 / KS 36

SIGN	SIZE IN.	AREA SQ.FT.	QTY EACH	TOTAL AREA SQ.FT.	QTY RELOC EACH	TOTAL RELOC SQ.FT.	SIGN NO.	DESCRIPTION
WARNING SIGNS								
WO1-1L	48X48	16.00						TURN (SYMBOL LEFT)
WO1-1R	48X48	16.00						TURN (SYMBOL RIGHT)
WO1-2L	48X48	16.00						CURVE (SYMBOL LEFT)
WO1-2R	48X48	16.00						CURVE (SYMBOL RIGHT)
WO1-3L	48X48	16.00						REVERSE TURN (SYMBOL LEFT)
WO1-3R	48X48	16.00						REVERSE TURN (SYMBOL RIGHT)
WO1-4L	48X48	16.00						REVERSE CURVE (SYMBOL LEFT)
WO1-4R	48X48	16.00						REVERSE CURVE (SYMBOL RIGHT)
WO1-4bL	48X48	16.00						DOUBLE ARROW REVERSE CURVE (SYMBOL LEFT)
WO1-4bR	48X48	16.00						DOUBLE ARROW REVERSE CURVE (SYMBOL RIGHT)
WO1-4cL	48X48	16.00						TRIPLE ARROW REVERSE CURVE (SYMBOL LEFT)
WO1-4cR	48X48	16.00						TRIPLE ARROW REVERSE CURVE (SYMBOL RIGHT)
WO1-6	60X30	12.50						HORIZONTAL ARROW (SYMBOL)
WO1-6a	72X36	18.00						HORIZ. ARROW (SYMBOL ON PERMANENT BARRICADE)
WO1-7	60X30	12.50						DOUBLE HEAD HORIZONTAL ARROW (SYMBOL)
WO1-7a	72X36	18.00						DOUBLE HEAD HORIZ. ARROW (SYMBOL ON PERM. BARR.)
WO1-8	18X24	3.00						CHEVRON (SYMBOL)
WO1-8a	30X36	7.50						CHEVRON (SYMBOL FOR DIVIDED HIGHWAYS)
WO3-1	48X48	16.00						STOP AHEAD (SYMBOL)
WO3-2	48X48	16.00						YIELD AHEAD (SYMBOL)
WO3-3	48X48	16.00						SIGNAL AHEAD (SYMBOL)
WO3-4	48X48	16.00	1	16.00				BE PREPARED TO STOP
WO3-5	48X48	16.00						SPEED LIMIT AHEAD
WO4-1L	48X48	16.00						MERGE (SYMBOL FROM LEFT)
WO4-1R	48X48	16.00						MERGE (SYMBOL FROM RIGHT)
WO4-1aL	48X48	16.00						MERGE (LEFT)
WO4-1aR	48X48	16.00						MERGE (RIGHT)
WO5-1	48X48	16.00						ROAD/BRIDGE/RAMP NARROWS
WO5-3	48X48	16.00						ONE LANE BRIDGE
WO5-5	48X48	16.00						NARROW LANES
WO6-1	48X48	16.00						DIVIDED HIGHWAY (SYMBOL)
WO6-2	48X48	16.00						DIVIDED HIGHWAY END (SYMBOL)
WO6-3	48X48	16.00						TWO WAY TRAFFIC (SYMBOL)
WO7-3a	30X24	5.00						NEXT XX MILES (PLAQUE)
WO8-1	48X48	16.00						BUMP
WO8-2	48X48	16.00						DIP
WO8-3	48X48	16.00						PAVEMENT ENDS
WO8-4	48X48	16.00						SOFT SHOULDER
WO8-5	48X48	16.00						SLIPPERY WHEN WET (SYMBOL)
WO8-6	48X48	16.00						TRUCK CROSSING
WO8-6c	48X48	16.00						TRUCK ENTRANCE
WO8-7	36X36	9.00						LOOSE GRAVEL
WO8-7a	36X36	9.00						FRESH OIL / LOOSE GRAVEL
WO8-9	48X48	16.00						LOW SHOULDER
WO8-11	48X48	16.00	4	64.00				UNEVEN LANES
WO8-12	48X48	16.00	4	64.00				NO CENTER LINE
WO8-15	48X48	16.00						GROOVED PAVEMENT
WO8-15P	30X24	5.00						MOTORCYCLE (PLAQUE)
WO8-17L	48X48	16.00						SHOULDER DROP-OFF (SYMBOL LEFT)
WO8-17R	48X48	16.00						SHOULDER DROP-OFF (SYMBOL RIGHT)
WO8-17P	30X24	5.00						SHOULDER DROP-OFF (PLAQUE)
W10-1	42RND.	9.62						RAILROAD CROSSING
WO12-1	24X24	4.00						DOUBLE DOWN ARROW (SYMBOL)
WO12-2	48X48	16.00						LOW CLEARANCE (SYMBOL)
WO12-2x	24X18	3.00						LOW CLEARANCE (PLAQUE)
WO12-2a	84X24	14.00						OVERHEAD LOW CLEARANCE (FEET AND INCHES)
WO12-4	120X60	50.00						LOW CLEARANCE XX FT XX IN XX MILES AHEAD
WO12-5	120X60	50.00						WIDTH RESTRICTION XX FT XX IN XX MILES AHEAD
WO13-1	30X30	6.25						ADVISORY SPEED (PLAQUE)
WO16-2	30X24	5.00						XXX FEET (PLAQUE)
WO16-3	30X24	5.00						X MILE (PLAQUE)
WO20-1	48X48	16.00	5	80.00				ROAD/BRIDGE/RAMP WORK AHEAD
WO20-2	48X48	16.00						DETOUR AHEAD
WO20-3	48X48	16.00						ROAD CLOSED AHEAD
WO20-4	48X48	16.00	4	64.00				ONE LANE ROAD AHEAD
WO20-5	48X48	16.00						RIGHT/CENTER/LEFT LANE CLOSED AHEAD
WO20-5a	48X48	16.00						2 RIGHT/CENTER/LEFT LANES CLOSED AHEAD
WO20-6a	48X48	16.00						RIGHT/CENTER/LEFT LANE CLOSED
WO20-7a	48X48	16.00	5	80.00				FLAGGER (SYMBOL)
WO21-2	36X36	9.00						FRESH OIL
WO21-5	48X48	16.00						SHOULDER WORK / SHOULDER WORK AHEAD
WO22-1	48X48	16.00						BLASTING ZONE AHEAD
WO22-2	42X36	10.50						TURN OFF 2-WAY RADIO AND PHONE
WO22-3	42X36	10.50						END BLASTING ZONE
GO22-1	21X15	2.19	2	4.38				WET PAINT (ARROW PIVOTS)

SIGN	SIZE IN.	AREA SQ.FT.	QTY EACH	TOTAL SQ.FT.	QTY RELOC EACH	TOTAL RELOC SQ.FT.	SIGN NO.	DESCRIPTION
GUIDE SIGNS								
E05-1	36X48	12.00						GORE EXIT
E05-2	48X36	12.00						EXIT OPEN
E05-2a	48X36	12.00						EXIT CLOSED
GO20-1	60X24	10.00	2	20.00				ROAD WORK NEXT XX MILES
GO20-2	48X24	8.00	2	16.00				END ROAD WORK
GO20-4	36X18	4.50	1	4.50				PILOT CAR FOLLOW ME
GO20-4a	42X30	8.75	1	8.75				PILOT CAR IN USE WAIT & FOLLOW
GO20-4a	18X12	1.50	1	1.50				PILOT CAR IN USE WAIT & FOLLOW
GO20-5aP	36X24	6.00						WORK ZONE (PLAQUE)
MO4-8a	24X18	3.00						END DETOUR
MO4-9L	48X36	12.00						DETOUR (LEFT)
MO4-9R	48X36	12.00						DETOUR (RIGHT)
MO4-9P	48X12	4.00						STREET NAME (PLAQUE)
MO4-10L	48X18	6.00						DETOUR ARROW (LEFT)
MO4-10R	48X18	6.00						DETOUR ARROW (RIGHT)
REGULATORY SIGNS								
R1-1	48X48	13.25						STOP
R1-2	48TRI.	6.93						YIELD
R1-2a	36X36	9.00						TO ONCOMING TRAFFIC (PLAQUE)
R1-3P	30X12	2.50						ALL WAY (PLAQUE)
R2-1	36X48	12.00						SPEED LIMIT XX
R3-1	48X48	16.00						NO RIGHT TURN (SYMBOL)
R3-2	48X48	16.00						NO LEFT TURN (SYMBOL)
R3-3	36X36	9.00						NO TURNS
R3-4	48X48	16.00						NO U-TURN (SYMBOL)
R3-7L	30X30	6.25						LEFT LANE MUST TURN LEFT
R3-7R	30X30	6.25						RIGHT LANE MUST TURN RIGHT
R4-1	36X48	12.00						DO NOT PASS
R4-2	36X48	12.00						PASS WITH CARE
R4-7a	36X48	12.00						KEEP RIGHT (HORIZONTAL ARROW)
R4-8a	36X48	12.00						KEEP LEFT (HORIZONTAL ARROW)
R5-1	30X30	6.25						DO NOT ENTER
R5-1a	36X24	6.00						WRONG WAY
R6-1L	54X18	6.75						ONE WAY ARROW (LEFT)
R6-1R	54X18	6.75						ONE WAY ARROW (RIGHT)
R6-2L	24X30	5.00						ONE WAY (LEFT)
R6-2R	24X30	5.00						ONE WAY (RIGHT)
R9-9	24X12	2.00						SIDEWALK CLOSED
R9-11L	24X18	3.00						SIDEWALK CLOSED AHEAD, (ARROW LEFT) CROSS HERE
R9-11R	24X18	3.00						SIDEWALK CLOSED AHEAD, (ARROW RIGHT) CROSS HERE
R10-6	24X36	6.00						STOP HERE ON RED (45^ ARROW)
R11-2	48X30	10.00						ROAD CLOSED
R11-3a	60X30	12.50						ROAD CLOSED XX MILES AHEAD LOCAL TRAFFIC ONLY
R11-4	60X30	12.50						ROAD CLOSED TO THRU TRAFFIC
CONST-3A	60X48	20.00						FINE SIGN
CONST-3X	56X12	4.67						SPEEDING/PASSING (PLATE)
MISCELLANEOUS SIGNS								
CONST-5	48X36	12.00						POINT OF PRESENCE
CONST-5	96X48	32.00						POINT OF PRESENCE
CONST-8	48X36	12.00	2	24.00				WORK ZONE NO PHONE ZONE
CONST-7-48	48X24	8.00	2	16.00				RATE OUR WORK ZONE

616-10.05 CONSTRUCTION SIGNS	TOTAL 464	
616-10.10 RELOCATED SIGNS		TOTAL

EFFECTIVE: 07-01-2025

ITEM NUMBER	TOTAL QTY	DESCRIPTION
6122008		IMPACT ATTENUATOR 40 MPH (SAND BARRELS)
6122009		IMPACT ATTENUATOR 45 MPH (SAND BARRELS)
6122010		IMPACT ATTENUATOR 50 MPH (SAND BARRELS)
6122012		IMPACT ATTENUATOR 55 MPH (SAND BARRELS)
6122014		IMPACT ATTENUATOR 60 MPH (SAND BARRELS)
6122017		IMPACT ATTENUATOR 65 MPH (SAND BARRELS)
6122019		IMPACT ATTENUATOR 70 MPH (SAND BARRELS)
6122020		REPLACEMENT SAND BARREL
6122030		IMPACT ATTENUATOR (RELOCATION)
6122040		WORK ZONE CRASH CUSHION (NARROW)
6122041		WORK ZONE CRASH CUSHION (RELOCATION)
6123001		TRUCK MOUNTED ATTENUATOR (TMA)
6161012		BUOYS (BOATS KEEP OUT)
6161013		BUOYS (NO WAKE)
6161014		SPECIAL SIGN ASSEMBLY (BOATS KEEP OUT)
6161020		CHANNELIZER (DRUM-LIKE)
6161022		CHANNELIZER (CONE)
6161025	30	CHANNELIZER (TRIM-LINE)
6161026		CHANNELIZER (VERTICAL PANEL)
6161030		TYPE 3 MOVEABLE BARRICADE
6161033		DIRECTION INDICATOR BARRICADE
6161040		FLASHING ARROW PANEL
6161047		TYPE 3 OBJECT MARKER
6161055		SEQUENTIAL FLASHING WARNING LIGHT
6161070		TUBULAR MARKER
6161095		RADAR SPEED ADVISORY SYSTEM
6161096		CHANGEABLE MESSAGE SIGN, COMMISSION FURNISHED/RETAINED
6161098A		CHANGEABLE MESSAGE SIGN WITHOUT COMM. INTERFACE, CONTRACTOR FURNISHED/RETAINED
6161099		CHANGEABLE MESSAGE SIGN WITH COMM. INTERFACE, CONTRACTOR FURNISHED/RETAINED
6162000A		WORK ZONE TRAFFIC SIGNAL SYSTEM
6162002		TEMPORARY LONG-TERM RUMBLE STRIPS
6173600D		TEMPORARY TRAFFIC BARRIER, CONTRACTOR FURNISHED/RETAINED
6173700B		TEMP. TRAFFIC BARRIER ANCHORED, CONTRACTOR FURNISHED/RETAINED
6173706		TEMP. TRAFFIC BARRIER STIFFNESS TRANSITION CONTRACTOR FURNISHED/RETAINED
6174000A		TEMP. TRAFFIC BARRIER HEIGHT TRANSITION, CONTRACTOR FURNISHED/RETAINED
6175010A		RELOCATING TEMPORARY TRAFFIC BARRIER
6175011B		RELOCATING TEMP. TRAFFIC BARRIER ANCHORED
6175013		RELOCATING TEMP. TRAFFIC BARRIER STIFFNESS
6175020A		RELOCATING TEMP. TRAFFIC BARRIER HEIGHT
6208064A		TEMPORARY RAISED PAVEMENT MARKER
9029400		TEMPORARY TRAFFIC SIGNALS
9029401		TEMPORARY TRAFFIC SIGNALS AND LIGHTING

TEMPORARY TRAFFIC CONTROL
1 LUMP SUM

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 ON FIELD CONDITIONS.

* REFER TO STANDARD PLAN SHEETS 616.20 FOR ADDITIONAL TEMPORARY TRAFFIC CONTROL

SUMMARY OF QUANTITIES
3 OF 3

STATE OF MISSOURI
WILLIAM R. BUCK
NUMBER PE-025272
PROFESSIONAL ENGINEER
09/17/2025
William R. Buck, P.E.
MO PE-025272

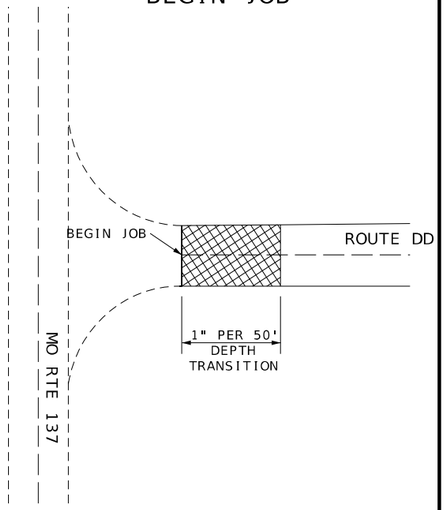
DATE PREPARED: 9/17/2025
ROUTE: DD | STATE: MO
DISTRICT: SE | SHEET NO.: 3
COUNTY: HOWELL
JOB NO.: JSE0009
CONTRACT ID.
PROJECT NO.
BRIDGE NO.

DESCRIPTION | DATE

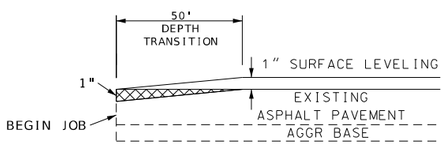
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

POWELL CWM
ARCHITECTURE/ENGINEERING/SURVEYING
2200 S. State Route 291, Bldg. I, Independence, MO 64057
816.373.8000 | powellcwm.com
Certificates of Authority
Architecture: MO 280 / AS-23
Engineering: MO-4 / BS-348
Land Surveying: MO 833 / BS-36

BEGIN JOB

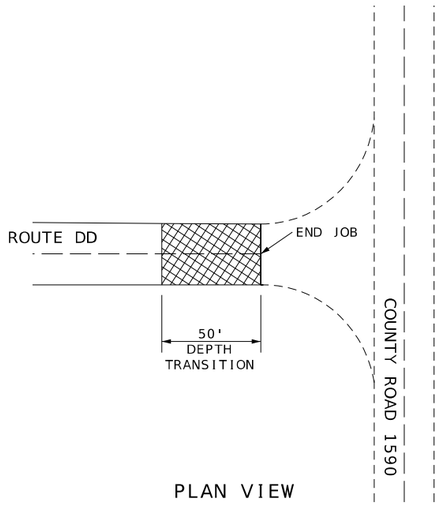


PLAN VIEW



TYPICAL

END JOB



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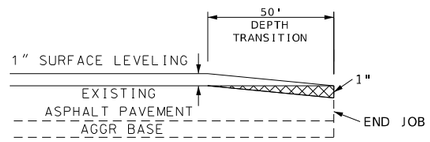

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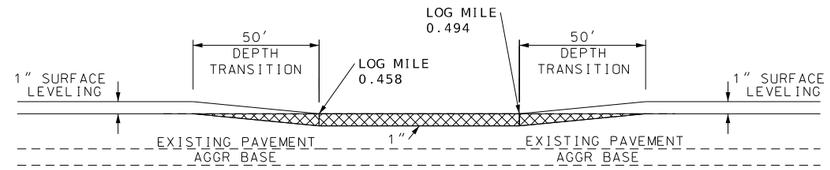
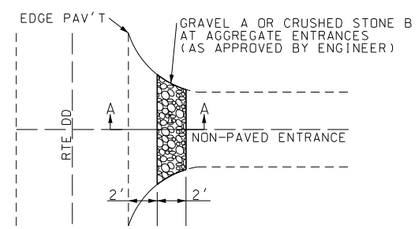
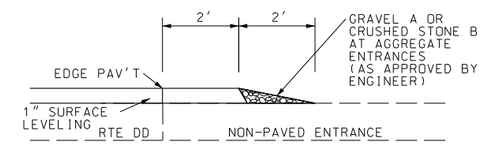


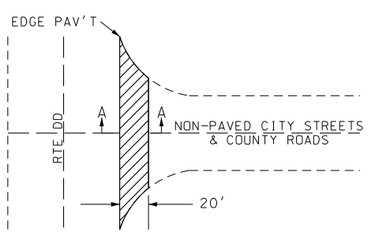
TYPICAL AT DRAINAGE DITCH #3
(TRIBUTARY TO ELEVEN POINT RIVER CROSSING)



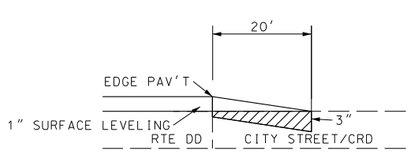
PLAN VIEW FOR NON-PAVED
FIELD OR PRIVATE ENTRANCES
WITH EXISTING APRON



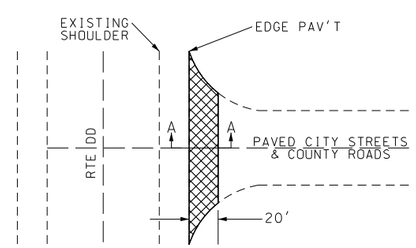
TYPICAL
SECTION A-A



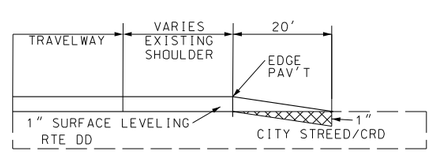
PLAN VIEW FOR NON-PAVED
CITY STREETS AND COUNTY ROADS



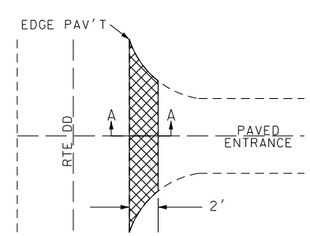
TYPICAL
SECTION A-A



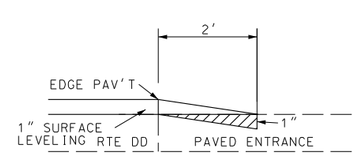
PLAN VIEW FOR PAVED CITY
STREETS AND COUNTY ROADS



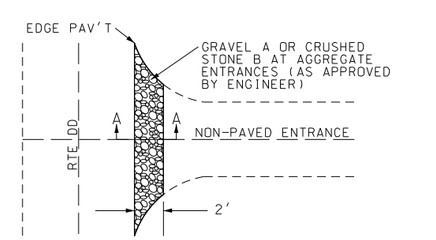
TYPICAL
SECTION A-A



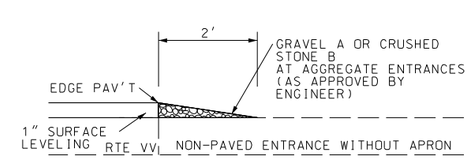
PLAN VIEW FOR PAVED
FIELD OR PRIVATE ENTRANCES



TYPICAL
SECTION A-A



PLAN VIEW FOR NON-PAVED
FIELD OR PRIVATE ENTRANCES
WITHOUT EXISTING APRON



TYPICAL
SECTION A-A

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.

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

COLDMILLING

GRADING

GRAVEL A OR CRUSHED STONE B

DRAWING NOT TO SCALE

SPECIAL SHEET
1 OF 1

STATE OF MISSOURI
WILLIAM R. BUCK
NUMBER
PE-025272
PROFESSIONAL ENGINEER

09/25/2025
William R. Buck, P.E.
Mo PE-025272

DATE PREPARED	
9/25/2025	
ROUTE	STATE
DD	MO
DISTRICT	SHEET NO.
SE	4
COUNTY	
HOWELL	
JOB NO.	
JSE0009	
CONTRACT ID.	
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DESCRIPTION	DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
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