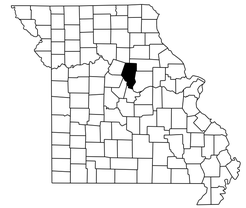
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
PLANS FOR PROPOSED STATE HIGHWAY

BOONE COUNTY
SECTIONS 29 & 30 T 48N R12W,
AND SECTION 25 T48N R13W



KEY MAP

SHOWING LOCATION OF BOONE COUNTY

EQUATION:
STA 111+72.40 = STA 130+00.00

NOT TO SCALE

PROJECT LIMITS - 2.289 MILES

PAVING AND ADA SIDEWALK IMPROVEMENTS

DESIGN DESIGNATION

A.A.D.T. = 2025 = 13,360
A.A.D.T. = 2045 = 14,500

V = 50 M.P.H. (POSTED)

FUNCTIONAL CLASSIFICATION - PRINCIPAL ARTERIAL

RIGHT OF WAY

TEMP. ESMT. (CONSTRUCTION)
PERM. ESMT. (SIDEWALK)

CONVENTIONAL SYMBOLS
(USED IN PLANS)

	EXISTING	NEW
BUILDINGS AND STRUCTURES		
GUARD RAIL		
RETAINING WALL		
CONCRETE RIGHT-OF-WAY MARKER		
STEEL RIGHT-OF-WAY MARKER		
LOCATION SURVEY MARKER		
UTILITIES		
UNDERGROUND FIBER OPTIC CABLE	-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-
GAS	-G-	-G-
WATER	-W-	-W-
PIPES (CMP OR RCP)		
MANHOLE (SANITARY SEWER)	SAN	
MANHOLE (STORM SEWER)	STORM	
MANHOLE (TELEPHONE)	TMH	
GAS VALVE	GV	
FIRE HYDRANT	HYD	
WATER VALVE	WV	
WATER METER	WM	
INLET	IN	
MANHOLE (NEW STORM)		
LIGHT POLE		
POWER POLE	PP	
POWER & LIGHT POLE	PAL	
GUY POLE	GUY	
TELEPHONE RISER	T RISER	
PULL BOX		
GROUND MOUNTED SIGN	SIGN	
FENCE (EXISTING)	-X-	
PED FENCE OR HANDRAIL (NEW)		
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.

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INDEX OF SHEETS

DESCRIPTION	SHEET NUMBER
TITLE SHEET	1
TYPICAL SECTION (TS) (1 SHEET)	2
QUANTITIES (QU) (10 SHEETS)	3
PLAN (PL) (25 SHEETS)	4-28
REFERENCE POINTS (RP) (1 SHEETS)	29
COORDINATE POINTS (CP) (1 SHEETS)	30
SPECIAL SHEETS (SS) (11 SHEETS)	31-41
EROSION CONTROL (EC) (25 SHEETS)	42-66
TRAFFIC CONTROL (TC) (12 SHEETS)	67-78
SIGNALS (SG) (30 SHEETS)	79-104
SIGNING (1 SHEETS)	105
STRIPING PLAN (2 SHEETS)	106-107

DISPOSITION OF FEATURES
(USED IN PLANS)

TEMPORARY CONSTRUCTION EASEMENT	T.C.E.
EASEMENT	ESM'T
TENTATIVE	TENT.
PERMANENT	PERM.
EXISTING	EX.
PROPOSED	PR.
REMOVE	R
REMOVE & REPLACE	RR
REMOVE & RELOCATE	R&RELOC
REMOVE & RELOCATE BY OTHERS	R&RELOCBO
DO NOT DISTURB	DND
USE IN PLACE	UIP
ADJUST TO GRADE	ATG
PROFILE GRADE LINE	PGL
MANHOLE	MH
CRASHWORTHY END TERMINAL	CET

LENGTH OF PROJECT

BEGINNING OF PROJECT	STA. 1+79.15	
END OF PROJECT	STA. 140+91.75	
APPARENT LENGTH (ROUTE AC)	13,912.60	FEET

EQUATIONS AND EXCEPTIONS:

ROUTE AC
EQUATION: STA. 111+72.40 BK = STA. 130+00.00 AH (+1,827.6')

TOTAL CORRECTIONS	-1,827.6	FEET
NET LENGTH OF PROJECT	12,085.00	FEET
STATE LENGTH (ROUTE AC)	2.289	MILES
ESTIMATED DISTURBED ACRES	2.300	ACRES

1/5/2026

STATE OF MISSOURI
BENJAMIN A. ROSS
NUMBER E-30054
REGISTERED PROFESSIONAL ENGINEER
Benjamin A. Ross

BENJAMIN A. ROSS
REGISTERED PROFESSIONAL ENGINEER E-30054

DATE PREPARED
1/5/2026

ROUTE	STATE
AC	MO
DISTRICT	SHEET NO.
CD	1

COUNTY
BOONE

JOB NO.
JCD0123

CONTRACT ID.

PROJECT NO.

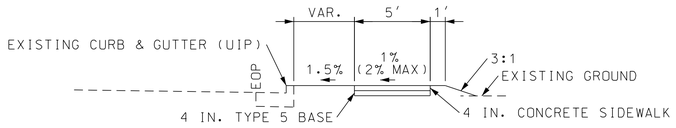
BRIDGE NO.

DESCRIPTION	DATE

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

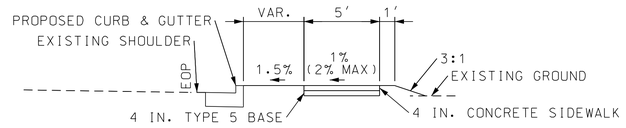
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MO Land Surveying Corp. # 2004004572
MO Engineering Corp. # 2004005518

TITLE SHEET
SHEET 1 OF 1



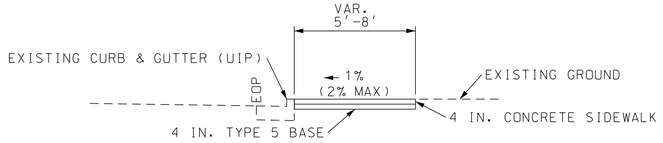
5' SIDEWALK REPLACEMENT WITH
EXISTING CURB & GUTTER (3)
ROUTE AC

STA. 2+60.61 LT - 13+42.18 LT
STA. 14+12.49 LT - 17+93.06 LT
STA. 19+80.60 LT - 20+73.81 LT
STA. 21+95.70 LT - 26+47.21 LT
STA. 64+77.08 LT - 67+82.48 LT
STA. 70+60.19 LT - 87+48.56 LT
STA. 88+48.04 LT - 132+45.15 LT
STA. 3+77.66 RT - 5+76.26 RT
STA. 6+85.97 RT - 10+70.80 RT
STA. 11+93.92 RT - 16+83.32 RT
STA. 17+89.41 RT - 19+14.59 RT
STA. 45+09.77 RT - 62+88.68 RT
STA. 67+35.12 RT - 84+36.01 RT
STA. 89+77.19 RT - 109+45.02 RT



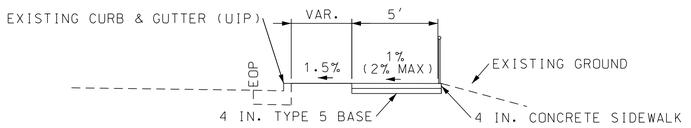
5' SIDEWALK REPLACEMENT WITH
CURB & GUTTER (3)
ROUTE AC

STA. 2+26.67 LT - 2+60.61 LT
STA. 14+02.74 LT - 14+12.49 LT
STA. 20+73.81 LT - 21+31.98 LT
STA. 87+48.56 LT - 88+48.04 LT
STA. 5+76.26 RT - 6+85.97 RT
STA. 10+70.80 RT - 11+93.92 RT
STA. 16+83.32 RT - 17+89.41 RT



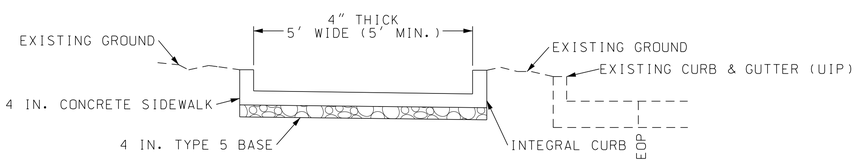
VARYING SIDEWALK REPLACEMENT WITH
EXISTING CURB
ROUTE AC

STA. 50+32.13 LT - 51+69.35 LT
STA. 67+82.48 LT - 70+60.19 LT
STA. 25+97.55 RT - 27+28.38 RT



5' SIDEWALK REPLACEMENT WITH
EXISTING CURB & GUTTER AND HANDRAIL
ROUTE AC

STA. 17+93.06 LT - 19+80.60 LT
STA. 84+36.93 RT - 87+67.26 RT (HANDRAIL REPLACEMENT ONLY)
STA. 87+67.26 RT - 89+77.19 RT



TYPICAL 5' SIDEWALK CUT THROUGH
ROUTE AC

STA. 17+35.97 LT - 17+55.44 LT

NOTES:

1. SEE MODOT STANDARD 608.10 FOR ADDITIONAL SIDEWALK DETAILS
2. SEE PLAN SHEETS FOR TRANSITION DETAILS AND DRIVEWAY DETAILS
3. SEE PLAN SHEETS FOR LOCATIONS AND WIDTHS

1/5/2026

STATE OF MISSOURI
BENJAMIN A. ROSS
NUMBER E-30054
REGISTERED PROFESSIONAL ENGINEER

BENJAMIN A. ROSS
REGISTERED PROFESSIONAL ENGINEER E-30054

DATE PREPARED
1/5/2026

ROUTE	STATE
AC	MO
DISTRICT	SHEET NO.
CD	2

COUNTY
BOONE

JOB NO.
JCD0123

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION	DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
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573-445-9853 www.ess-mo.com
MO Land Surveying Corp. # 2004004672
MO Engineering Corp. # 2004005918

TYPICAL SECTIONS
SHEET 1 OF 1

REMOVAL OF IMPROVEMENTS

STA.	STA.	LOCATION	DESCRIPTION	QUANTITY	REMARKS
2+26.67	2+28.59	LT	CURB	2 LF	
2+28.59	2+62.70	LT	SIDEWALK	33.67 LF	
2+33.50	2+48.67	LT	CURB	15.17 LF	
2+54.00	2+60.5	LT	CURB	6.5 LF	
3+57.02	3+61.98	LT	SIDEWALK	11 LF	
3+77.66	4+37.66	RT	SIDEWALK	32.4 SY	
5+67.47	6+06.22	RT	SIDEWALK	38.8 LF	
5+76.35	6+06.49	RT	CURB	30.14 LF	
6+11.39	6+13.47	RT	CURB	2.09 LF	
6+34.53	6+46.91	RT	MEDIAN STRIP ISLAND	23 SY	SANDMAN LANE
6+34.40	6+85.97	RT	PAVEMENT	117.66 SY	AT SANDMAN LANE - INCLUDES 182.0 LF SAWCUT
6+56.48	6+69.30	RT	CURB	13 LF	
6+77.25	6+85.97	RT	CURB	8.72 LF	
6+59.83	8+59.99	RT	SIDEWALK	200 LF	
8+51.65	8+51.94	RT	CURB	0.29 LF	
8+59.99	8+60.84	RT	CURB	0.85 LF	
7+95.15	8+20.10	LT	SIDEWALK	24.95 LF	
9+08.03	9+12.75	RT	CURB	4.72 LF	
9+12.75	9+36.73	RT	SIDEWALK	23.98 LF	
9+21.53	9+23.61	RT	CURB	2.08 LF	
10+57.47	11+02.97	RT	SIDEWALK	45.5 LF	
10+70.87	11+01.16	RT	CURB	30.29 LF	
11+05.10	11+06.35	RT	CURB	1.25 LF	
11+14.37	11+48.25	RT	MEDIAN STRIP ISLAND TOP	12.54 SY	ROCKMAN LANE
11+22.00	11+40.00	RT	SIGN, POST, & BOLT DOWN FOOTING	2 EACH	SIGN, POST, AND BOLT DOWN FOOTING TO BE REUSED
11+53.22	11+74.42	LT	PAVEMENT	16.67 SY	STARBUCKS COFFEE ENT.- INCLUDES 51.2 LF SAWCUT
11+96.55	12+10.90	LT	SIDEWALK	7.91 SY	
11+54.86	11+73.41	RT	CURB	18.55 LF	
11+59.10	12+39.76	RT	SIDEWALK	80.66 LF	
11+84.23	11+93.92	RT	CURB	9.69 LF	
13+03.09	13+46.00	RT	SIDEWALK	42.91 LF	
13+15.10	13+33.09	RT	CURB	17.99 LF	
13+46.00	13+50.62	RT	CURB	4.62 LF	
13+32.11	13+52.62	RT	PAVEMENT	9.16 SY	SW QUAD BUTTONWOOD DR INCLUDES 29.1 LF SAWCUT
14+25.50	14+37.50	RT	PAVEMENT FOR CONDUIT TRENCH	2.67 SY	PROTECT EXISTING CONDUIT
14+33.06	14+39.19	RT	ISLAND CROSS WALK	4.96 SY	
14+38.63	17+09.91	RT	SIDEWALK	271.28 LF	
14+47.85	14+51.55	RT	CURB	3.7 LF	
14+54.40	14+61.57	RT	CURB	7.17 LF	
12+98.51	13+38.26	LT	SIDEWALK	39.75 LF	
13+12.58	13+32.65	LT	CURB	20.07 LF	
13+42.53	13+51.70	LT	CURB	9.17 LF	
14+04.07	14+65.74	LT	SIDEWALK	61.67 LF	
14+03.23	14+07.46	LT	CURB	4.23 LF	
14+09.58	14+12.14	LT	CURB	2.56 LF	
14+13.84	1431.92	LT	CURB	4.08 LF	
14+37.97	14+56.11	LT	CURB	8.14 LF	
16+73.40	17+02.48	LT	SIDEWALK	29.08 LF	
16+92.88	16+95.92	LT	CURB	3.04 LF	
17+35.84	17+55.12	LT	CUT THROUGH	12.27 SQ	
17+35.42	17+35.84	LT	CURB	3.22 LF	
17+39.04	17+42.85	LT	CURB	3.82 LF	
17+50.18	17+53.35	LT	CURB	3.47 LF	
17+55.12	17+55.35	LT	CURB	2.90LF	
17+83.68	21+23.05	LT	SIDEWALK	339.37 LF	
17+83.68	17+84.05	LT	CURB	3.08 LF	
17+86.39	17+91.61	LT	CURB	5.86 LF	
16+83.45	16+88.09	RT	CURB	4.64 LF	
16+96.94	17+12.79	RT	CURB	30.79 LF	
17+29.63	17+51.54	RT	MEDIAN STRIP ISLAND	37.86 SY	HYDE PARK AVENUE
17+33.00		RT	SIGN, POST, & BOLT DOWN FOOTING	1 EACH	SIGN, POST, AND BOLT DOWN FOOTING TO BE REUSED
17+47.02	17+72.92	RT	CURB	44.51 LF	
17+29.63	17+89.28	RT	PAVEMENT	133.64 SY	HYDE PARK AV. - INCLUDES 174.8 LF SAWCUT
17+49.00	19+14.59	RT	SIDEWALK	165.59 LF	
20+73.81	21+11.84	LT	CURB	38.88 LF	
21+13.67		LT	SIGN, POST, & FOOTING	7.4 SY	SIGN AND POST TO BE REUSED
21+23.05	21+32.28	LT	CURB	12.53 LF	
22+00.66	26+47.21	LT	SIDEWALK	557.67LF	
22+00.39	22+06.91	LT	CURB	8.21 LF	
22+12.52	22+30.83	LT	CURB	17.78 LF	
45+09.11	47+06.13	RT	SIDEWALK	197.02 LF	

1/5/2026

STATE OF MISSOURI
BENJAMIN A. ROSS
NUMBER E-30054
REGISTERED PROFESSIONAL ENGINEER

BENJAMIN A. ROSS
REGISTERED PROFESSIONAL ENGINEER E-30054

DATE PREPARED
1/5/2026

ROUTE	STATE
AC	MO

DISTRICT	SHEET NO.
CD	3

COUNTY
BOONE

JOB NO.
JCD0123

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL
JEFFERSON CITY, MO 65102
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MO Land Surveying Corp. # 2004004472
MO Engineering Corp. # 2004005918

SUMMARY OF QUANTITY SHEET
SHEET 1 OF 10

REMOVAL OF IMPROVEMENTS (CONTINUED)

STA.	STA.	LOCATION	DESCRIPTION	QUANTITY	REMARKS
50+15.94	50+40.18	RT	SIDEWALK	28.77 LF	
51+39.59	51+64.15	RT	SIDEWALK	30.43 LF	
51+23.58	51+69.35	LF	SIDEWALK	55.46 LF	
51+24.82	51+34.07	LT	CONCRETE APPRON	3.74 SY	
61+95.46	62+05.89	LT	SIDEWALK	51.78 LF	
62+78.83	62+99.88	RT	SIDEWALK	21.05 LF	
62+88.68	62+96.77	RT	CURB	9.43 LF	
62+99.14	62+99.88	RT	CURB	1.27 LF	
64+77.15	65+15.79	LT	SIDEWALK	141.75 LF	
65+49.44	65+79.31	LT	PAVEMENT	44.79 SY	
66+76.67	66+88.21	LT	PAVEMENT AND MEDIAN STRIP FOR CONDUIT	2.56 SY	PROTECT EXISTING CONDUIT
65+53.72	65+56.86	LT	CURB	6.58 LF	
66+85.64	66+93.78	LT	CURB	3.10 LF	
66+91.87	67+82.16	LT	SIDEWALK	95 LF	
66+93.78	67+05.83	LT	CURB	14.10 LF	
67+19.69	67+25.64	RT	CURB	5.95 LF	
67+31.59	70+81.57	RT	SIDEWALK	349.98 LF	
67+29.41	67+35.45	RT	CURB	6.04 LF	
70+79.51	71+14.14	RT	APPROACH PAVEMENT	30.32 SY	
70+73.40	70+80.23	RT	CURB	8.37 LF	
71+12.32	71+21.03	RT	CURB	8.34 LF	
71+12.32	74+98.12	RT	SIDEWALK	385.8 LF	
70+27.27	71+05.64	LT	SIDEWALK	78.37 LF	
70+93.50	71+03.25	LT	CURB	11.00 LF	
70+97.33	71+35.00	LT	APPROACH PAVEMENT	24.60 SY	
71+25.51	74+99.60	LT	SIDEWALK	374.09 LF	
71+28.67	71+35.00	LT	CURB	7.06 LF	
74+93.44	74+96.70	LT	CURB	3.97 LF	
74+96.07	75+49.72	LT	APPROACH PAVEMENT	104.46 SY	
75+47.78	77+92.59	LT	SIDEWALK	244.81 LF	
75+49.72	75+57.07	LT	CURB	8.48 LF	
75+35.28	79+82.37	RT	SIDEWALK	347.09 LF	
75+33.37	75+34.06	RT	CURB	2.03 LF	
75+35.28	75+40.32	RT	CURB	5.95 LF	
81+40.36	82+45.75	RT	SIDEWALK	105.39 LF	
82+45.75	82+45.91	RT	CURB	4.5 0 LF	
82+39.12	82+43.31	RT	CURB	5.30 LF	
82+39.12	82+88.19	RT	APPROACH PAVEMENT	48.23 SY	
82+77.91	83+78.65	RT	SIDEWALK	100.74 LF	
82+8084	82+88.19	RT	CURB	8.06 LF	
82+77.67	82+77.91	RT	CURB	3.28 LF	
80+45.47	80+69.74	LT	SIDEWALK	24.27 LF	
80+68.02	80+63.41	LT	CURB	5.57 LF	
80+63.66	80+98.93	LT	APPROACH PAVEMENT	24.67 SY	
80+89.51	82+59.80	LT	SIDEWALK	170.29 LF	
80+91.39	80+98.93	LT	CURB	9.63 LF	
82+51.15	82+55.91	LT	CURB	5.37 LF	
82+51.15	82+86.42	LT	APPROACH PAVEMENT	24.47 SY	
82+79.05	84+62.06	LT	SIDEWALK	183.00 LF	
82+78.92	82+79.05	LT	CURB	1.0 LF	
82+86.42	82+83.01P	LT	CURB	5.75 LF	
84+52.53	84+60.39	LT	CURB	8386 LF	
84+52.53	84+89.95	LT	APPROACH PAVEMENT	28.60 LF	
84+81.70	87+86.92	LT	SIDEWALK	305.22 LF	
87+48.57	87+80.65	LT	CURB	111.93 LF	
87+86.92	87+88.07	LT	CURB	3.70 LF	
87+80.65	88+48.04	LT	APPROACH PAVEMENT	71.78 SY	
88+22.40	88+31.13	LT	CURB	12.40 LF	
88+36.33	88+48.04	LT	CURB	12.06 LF	
88+36.33	92+99.71	LT	SIDEWALK	463.41 LF	
87+67.27	87+95.60	RT	SIDEWALK	28.33 LF	
87+84.56	87+93.27	RT	CURB	9.18 LF	
87+89.36	88+20.68	RT	APPROACH PAVEMENT	26.48 SY	
88+18.91	88+24.55	RT	CURB	6.65 LF	
88+15.65	93+18.01	RT	SIDEWALK	502.36 LF	
92+72.37	92+84.96	RT	CURB	13.85 LF	
92+91.73	92+98.81	RT	CURB	98.5 LF	

1/5/2026

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BENJAMIN A. ROSS
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Benjamin A. Ross

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SUMMARY OF QUANTITY SHEET
SHEET 2 OF 10

REMOVAL OF IMPROVEMENTS (CONTINUED)

STA.	STA.	LOCATION	DESCRIPTION	QUANTITY	REMARKS
92+58.52	92+74.98	LT	CURB	20.69 LF	
92+80.36	92+8569	LT	CURB	8.90 LF	
92+90.71	93+05.31	LT	PAVEMENT & MEDIAN STRIP FOR CONDUIT	4.06 SY	PROTECT EXISTING CONDUIT
93+02.15	93+07.53	LT	MEDIAN STRIP	1.0 SY	NW QUAD BEARFIELD
93+66.04	93+83.79	LT	PAVEMENT & MEDIAN STRIP FOR CONDUIT	4.52 SY	PROTECT EXISTING CONDUIT
93+74.22	94+01.12	LT	PAVEMENT	36.81 SY	
93+78.00	94+60.00	LT	SIDEWALK	101.52 LF	
93+99.48	94+04.57	LT	CURB	6.46 LF	
93+66.80	99+15.80	RT	SIDEWALK	549.00 LF	
93+82.50	93+84.41	RT	CURB	2.71 LF	
93+89.75	93+91.68	RT	CURB	2.45 LF	
99+06.48	99+16.38	RT	PAVEMENT	2.0 SY	
99+06.48	99+13.69	RT	CURB	7.61 LF	
99+15.32	99+15.80	RT	CURB	5.30 LF	
98+85.42	99+48.71	LT	SIDEWALK	70.20 LF	
99+37.42	99+42.81	LT	CURB	6.70 LF	
99+49.71	99+49.88	LT	CURB	1.50 LF	
99+96.73	108+68.89	LT	SIDEWALK	872.16 LF	
99+86.32	99+88.32	LT	CURB	2.33 LF	
99+96.73	100+04.25	LT	CURB	7.91 LF	
99+36.43	104+17.00	RT	SIDEWALK	480.57 LF	
99+39.06	99+45.80	RT	CURB	7.28 LF	
103+84.29	104+01.38	RT	CURB	18.40 LF	
104+17.00	104+21.54	RT	CURB	5.65 LF	
104+50.00		RT	SIGN, POST, AND BOLT DOWN FOOTING	1 EACH	SIGN, POST AND BOLT DOWN FOOTING TO BE REUSED
105+23.92	105+43.88	RT	CURB	25.7 LF	
105+57.19	105+60.95	RT	CURB	4.00 LF	
105+23.92	108+71.80	RT	SIDEWALK	347.88 LF	
108+55.80	108+68.90	RT	CURB	9.58 LF	
108+71.80	108+75.16	RT	CURB	10.05 LF	
109+17.34	109+45.00	RT	SIDEWALK	27.66 LF	
109+29.15	109+33.64	RT	CURB	4.50 LF	
108+62.44	108+67.78	LT	CURB	6.26 LF	
108+73.30	108+76.13	LT	CURB	12.25 LF	
109+33.92	111+72.40	LT	SIDEWALK	238.48 LF	
130+00.00	132+45.16	LT	SIDEWALK	246.16 LF	
109+18.33	109+20.65	LT	CURB	14.00 LF	
109+26.02	109+37.17	LT	CURB	12.15 LF	
13+19.29			PEDESTRIAN PUSH BUTTON # P3	1 EACH	ROUTE AC AT BUTTONWOOD DR
14+22.33			PEDESTRIAN PUSH BUTTON # P8	1 EACH	ROUTE AC AT BUTTONWOOD DR
14+25.76			PEDESTRIAN PUSH BUTTON # P7	1 EACH	ROUTE AC AT BUTTONWOOD DR
13+25.14			PEDESTRIAN PUSH BUTTON # P4	1 EACH	ROUTE AC AT BUTTONWOOD DR
13+25.14			SIGNAL POST 4 FT	1 EACH	ROUTE AC AT BUTTONWOOD DR
13+40.00			PEDESTRIAN SIGNAL HEAD # 43	1 EACH	ROUTE AC AT BUTTONWOOD DR
14+22.33			PEDESTRIAN SIGNAL HEAD # 83	1 EACH	ROUTE AC AT BUTTONWOOD DR
26+39.14			PEDESTRIAN PUSH BUTTON # P1	1 EACH	ROUTE AC AT GREEN MEADOWS RD
26+39.14			PEDESTRIAN PUSH BUTTON # P8	1 EACH	ROUTE AC AT GREEN MEADOWS RD
27+18.74			PEDESTRIAN PUSH BUTTON # P2	1 EACH	ROUTE AC AT GREEN MEADOWS RD
27+18.74			PEDESTRIAN PUSH BUTTON # P3	1 EACH	ROUTE AC AT GREEN MEADOWS RD
26+95.14			PEDESTRIAN PUSH BUTTON # P4	1 EACH	ROUTE AC AT GREEN MEADOWS RD
26+95.14			PEDESTRIAN PUSH BUTTON # P5	1 EACH	ROUTE AC AT GREEN MEADOWS RD
26+35.85			PEDESTRIAN PUSH BUTTON # P6	1 EACH	ROUTE AC AT GREEN MEADOWS RD
26+35.85			PEDESTRIAN PUSH BUTTON # P7	1 EACH	ROUTE AC AT GREEN MEADOWS RD
50+66.64			PEDESTRIAN PUSH BUTTON # 24	1 EACH	ROUTE AC AT GRINDSTONE PLAZA DR
50+66.64			PEDESTRIAN PUSH BUTTON # 43	1 EACH	ROUTE AC AT GRINDSTONE PLAZA DR
51+11.11			PEDESTRIAN PUSH BUTTON # 23	1 EACH	ROUTE AC AT GRINDSTONE PLAZA DR
51+11.11			PEDESTRIAN PUSH BUTTON # 84	1 EACH	ROUTE AC AT GRINDSTONE PLAZA DR
51+12.20			PEDESTRIAN PUSH BUTTON # 64	1 EACH	ROUTE AC AT GRINDSTONE PLAZA DR
51+12.20			PEDESTRIAN PUSH BUTTON # 83	1 EACH	ROUTE AC AT GRINDSTONE PLAZA DR
50+55.78			PEDESTRIAN PUSH BUTTON # 44	1 EACH	ROUTE AC AT GRINDSTONE PLAZA DR
50+55.78			PEDESTRIAN PUSH BUTTON # 64	1 EACH	ROUTE AC AT GRINDSTONE PLAZA DR
66+28.71			PEDESTRIAN PUSH BUTTON # P4	1 EACH	ROUTE AC AT ROCK QUARRY RD
66+07.43			PEDESTRIAN PUSH BUTTON # P3	1 EACH	ROUTE AC AT ROCK QUARRY RD
66+73.74			PEDESTRIAN PUSH BUTTON # P8	1 EACH	ROUTE AC AT ROCK QUARRY RD
66+92.80			PEDESTRIAN PUSH BUTTON # P7	1 EACH	ROUTE AC AT ROCK QUARRY RD
93+03.77			PEDESTRIAN PUSH BUTTON # P4	1 EACH	ROUTE AC AT BEARFIELD RD
93+05.29			PEDESTRIAN PUSH BUTTON # P3	1 EACH	ROUTE AC AT BEARFIELD RD
93+66.76			PEDESTRIAN PUSH BUTTON # P8	1 EACH	ROUTE AC AT BEARFIELD RD
93+62.39			PEDESTRIAN PUSH BUTTON # P7	1 EACH	ROUTE AC AT BEARFIELD RD
108+62.67			PEDESTRIAN PUSH BUTTON # P44	1 EACH	ROUTE AC AT BLUFF CREEK DR
108+66.26			PEDESTRIAN PUSH BUTTON # P43	1 EACH	ROUTE AC AT BLUFF CREEK DR
109+44.32			PEDESTRIAN PUSH BUTTON # P84	1 EACH	ROUTE AC AT BLUFF CREEK DR
109+29.48			PEDESTRIAN PUSH BUTTON # P64	1 EACH	ROUTE AC AT BLUFF CREEK DR
				TOTAL = 1 LUMP SUM	

1/5/2026

STATE OF MISSOURI
BENJAMIN A. ROSS
NUMBER E-30054
REGISTERED PROFESSIONAL ENGINEER

BENJAMIN A. ROSS
REGISTERED PROFESSIONAL ENGINEER E-30054

DATE PREPARED
1/5/2026

ROUTE	STATE
AC	MO

DISTRICT	SHEET NO.
CD	3

COUNTY
BOONE

JOB NO.
JCD0123

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL
JEFFERSON CITY, MO 65102
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MO Land Surveying Corp. # 2004004672
MO Engineering Corp. # 2004005918

SUMMARY OF QUANTITY SHEET
SHEET 3 OF 10

APPROACHES, CURB & GUTTER, AND MEDIAN STRIP

STA.	STA.	LOCATION	8 IN. NON-REINF CONCRETE PAVEMENT (SQYD)	8 IN. PAVED APPROACH (SQYD)	6 IN. CONCRETE MEDIAN STRIP (SQYD)	8 IN. TYPE A INTEGRAL CURB (LF)	TYPE 5 AGGREGATE BASE (SY)	DELINEATOR POST (WHITE) (EACH)	REMARKS
2+26.67	2+28.59	LT				2			
2+33.45	2+48.70	LT				17			
2+54.01	2+60.51	LT				7			
5+76.35	6+07.45	RT				36			
6+11.39	6+13.47	RT				5			
6+34.40	46+46.82	RT			17.1			3	SANDMAN MEDIAN ISLAND
6+34.40	6+85.97	RT	117.7				117.7		
6+58.12	6+61.58	RT				3			
6+61.58	6+85.97	RT				31			
8+51.65	8+51.94	RT				2			
8+59.99	8+60.84	RT				1			
9+08.03	9+12.57	RT				7			
9+20.41	9+23.61	RT				3			
10+70.87	11+01.16	RT				36			
11+05.10	11+06.35	RT				3			
11+14.37	11+48.25	RT			16.4			3	ROCKMAN LANE
11+53.22	11+74.42	LT	16.6				16.6		
11+59.10	11+56.84	RT				3			
11+61.13	11+93.92	RT				39			
13+12.58	13+14.60	LT				4			
13+21.94	13+49.06	LT				40			
13+50.97	13+51.70	LT				1			
14+03.23	14+07.46	LT				14			
14+10.43	14+12.14	LT				4			
13+20.60	13+33.09	RT				12.8			
13+47.87	13+50.62	RT				3			
14+27.77	14+33.06	RT			3				BUTTONWOOD MED. ISLAND
14+47.85	14+50.88	RT				5			
14+55.13	14+61.57	RT				9			
16+83.45	17+06.24	RT				30			
17+09.64	147+12.79	RT				10			
17+29.13	17+89.28	RT	133.6		20.9		133.6	3	HYDE PARK AVENUE
17+47.02	17+56.54	RT				23			
17+59.99	17+89.28	RT				35			
16+92.88	16+97.03	LT				6			
17+35.42	17+55.12	LT				102			
17+38.76	17+84.05	LT				3			
17+86.3	17+91.61	LT				6			
20+73.81	21+14.16	LT				42			
21+23.05	21+32.38	LT				13			
22+00.39	22+11.60	LT				13			
22+24.20	22+30.83	LT				7			
51+24.82	51+34.07	LT			3.9				
65+49.44	65+50.11	LT				2			
65+53.72	65+56.86	LT				7			
65+49.44	65+79.31	LT	41.2				41.2		
66+85.64	66+88.17	LT				3.6			
66+76.67	66+88.21	RT	2.6		1.3				CONDUIT TRENCH
66+94.03	67+05.83	LT				14.1			
67+19.69	67+25.64	RT				10.1			
67+29.71	67.35.45	RT				8.1			
70+73.40	71+21.03	RT		30.3		14	30.3		
70+93.50	71+25.00	LT		24.2			24.2		
74+93.44	75+75.00	LT		65			65		
74+89.26	75+36.46	RT		34.2			34.2		
80+63.66	80+98.93	LT		23			23		
82+39.12	82.88.19	RT		48.5			48.5		
82+51.05	82+86.42	LT		24.5			24.5		
84+52.53	84+89.95	LT		25.4			25.4		
87+48.57	88+48.04	LT		71.2		35	71.2		
87+84.56	88+20.68	RT		26		5	26		
92+58.52	98+74.42	LT				20			
92+79.26	92+85.69	LT				10			
93+74.22	94+04.57	LT	36.3			10	36.3		
92+72.37	92+98.81	RT				25			
93+82.50	93+91.68	RT				7			
		SUBTOTAL	348	372.3	63	749	717.7	9	

1/5/2026

STATE OF MISSOURI
BENJAMIN A. ROSS
NUMBER E-30054
REGISTERED PROFESSIONAL ENGINEER

BENJAMIN A. ROSS
REGISTERED PROFESSIONAL ENGINEER E-30054

DATE PREPARED
1/5/2026

ROUTE	STATE
AC	MO

DISTRICT	SHEET NO.
CD	3

COUNTY
BOONE

JOB NO.
JCD0123

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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JEFFERSON CITY, MO 65102
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MO Engineering Corp. # 2004005918

SUMMARY OF QUANTITY SHEET

SHEET 4 OF 10

APPROACHES, CURB & GUTTER, AND MEDIAN STRIP (CONTINUED)

STA.	STA.	LOCATION	8 IN. NON-REINF CONCRETE PAVEMENT (SQYD)	8 IN. PAVED APPROACH (SQYD)	6 IN. CONCRETE MEDIAN STRIP (SQYD)	8 IN. TYPE A INTEGRAL CURB (LF)	TYPE 5 AGGREGATE BASE (SY)	DELINEATOR POST (WHITE) (EACH)	REMARKS
92+90.71	93+05.31	LT	4.1		3				CONDUIT PATCH
93+02.15	93+07.53	LT			3			2	NW QUAD BEARFIELD
93+66.04	93+83.79	LT	4.5		3				CONDUIT PATCH
99+37.42	99+44.74	LT				9			
99+48.71	99+49.71	LT				3			
99+86.37	99+89.16	LT				4			
99+97.89	100+04.25	LT				7			
99+06.48	99+45.80	RT		3.3		14	3.3		
103+84.29	104+09.09	RT				27			
104+17.42	104+21.54	RT				6			
104+81.76	105+04.60	RT			16			3	Ponderosa Dr.
105+23.92	105+27.20	RT				5			
105+34.16	105+60.95	RT				30			
108+62.44	108+63.15	LT				1			
108+73.23	108+76.13	LT				12			
109+18.33	109+21.32	LT				15			
109+29.95	109+37.17	LT				8			
108+55.80	108+62.73	RT				6			
108+71.58	108.75.16	RT				10			
109+17.08	109+17.60	RT				1			
109+27.40	109+33.64	RT				5			
		SUBTOTAL	8.6	3.3	25	163	6.3	5	
		SUBTOTAL TABLE 1	345.4	372.3	63	749	717.7	9	
		TOTAL	354	375.6	88	912	738	14	

PAVEMENT MARKING

STA.	STA.	LOCATION	PLURAL COMPONENT 24 IN WHITE (LF)	PAVEMENT MARKING REMOVAL (LF)	PAVEMENT MARKING 24 IN X 36 IN YIELD TRIANGLE (EACH)	REMARKS
13+21.00	13+25.00			46		EASTBOUND STOP BAR ON ROUTE AC
13+11.10	13+11.10		39			EASTBOUND STOP BAR ON ROUTE AC
13+52.97	13+85.63		33	33		SB BUTTONWOOD AT RTE AC
14+40.00	14+48.00			34		WB RTE AC LANE AT BUTTONWOOD
14+54.63	14+54.63		36			WB RTE AC TURN LANE AT BUTTONWOOD
104+68.57	104+81.57		13	13		PONDEROSA LT TURN LANE ONTO RTE AC
105+00.53	105+20.90				7	RT MERGE TO RTE AC
		TOTAL	121	126	7	

UTILITY ITEMS

STA.	STA.	LOCATION	ADJUST WATER VALVE FRAME AND COVER (LF)	REMARKS
14+06.92			1	NE QUAD BUTTONWOOD DR.
16+82.56			2	IN SIDEWALK N ROUTE AC
		TOTAL	3	

CONTRACTOR FURNISHED SURVEYING & STAKING

1 LUMP SUM

MOBILIZATION

1 LUMP SUM

ADDITIONAL MOBILIZATION FOR SEEDING

3 EACH

1/5/2026

STATE OF MISSOURI
BENJAMIN A. ROSS
NUMBER E-30054
REGISTERED PROFESSIONAL ENGINEER

BENJAMIN A. ROSS
REGISTERED PROFESSIONAL ENGINEER E-30054

DATE PREPARED: 1/5/2026

ROUTE	STATE
AC	MO

DISTRICT	SHEET NO.
CD	3

COUNTY: BOONE

JOB NO.: JCD0123

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SUMMARY OF QUANTITY SHEET
SHEET 5 OF 10

PEDESTRIAN FACILITIES

STA.	STA.	LOCATION	4 IN. CONC. SIDEWALK (SQYD)	4 IN. TYPE 5 AGGREGATE BASE (SQYD)	CONCRETE CURB RAMP (SQYD)	TRUNCATED DOMES (SF)	SIDEWALK HANDRAIL W/O BALUSTERS (LF)	LINEAR GRADING CL.2 (STA.)	SIDEWALK JOINT CORRECTION (LF)	REMARKS
2+32.44	2+63.24	LT	12.2	22.6	10.4	12.15		0.3		
3+57.02	3+62.01	LT	6.1	6.1				0.0		
7+95.15	8+20.10	LT	13.9	13.9				0.2		
10+72.21	10+74.21	LT						0.1	5	
11+96.55	12+10.90	LT	8.0	8.0				0.1		
12+98.51	13+38.18	LT	30.3	49.6	19.3	22		0.4		
14+08.93	14+65.79	LT	32.5	51.8	19.3	22		0.6		
16+73.40	17+03.02	LT	9.7	16.5	6.8			0.3		
17+35.97	17+55.44	LT	0.0	12.9	12.9			0.2		
17+83.27	21+23.90	LT	170.0	179.2	9.2	17.63		3.4		
17+88.96	19+79.28	LT					185.6			
21+95.73	26+41.73	LT	303.1	333.4	30.3	33		4.5		
51+23.58	51+69.35	LT	29.5	57.2	27.7	14		0.5		
61+75.80	61+75.80	LT							5	
62+00.73	62+05.79	LT	33.0	33.0				0.1		
62+33.20	62+33.21	LT							5	
63+30.80	63+30.80	LT							5	
64+77.08	65+16.79	LT	108.5	120.1	11.6	12		0.4		
66+93.12	67+82.36	LT	45.7	57.5	11.8	12		0.9		
70+27.52	71+05.64	LT	45.8	51.0	5.2			0.8		
71+25.51	74+99.60	LT	193.3	206.9	13.6	10		3.7		
75+47.79	77+92.30	LT	130.6	136.0	5.4	10		2.4		
80+45.47	80+69.77	LT	8.4	13.7	5.3			0.2		
80+89.44	82+59.80	LT	84.1	95.0	10.9	10		1.7		
82+79.14	84+62.29	LT	91.1	102.0	10.9	10		1.8		
84+81.72	87+87.10	LT	162.7	174.1	11.4	10		3.1		
88+26.90	92+99.87	LT	263.1	294.2	31.1	30		4.7		
93+82.58	94+60.00	LT	40.0	64.1	24.1	12		0.8		
96+81.00	96+81.00	LT							5	
98+85.42	99+38.29	LT	33.5	39.8	6.3	10		0.5		
99+88.46	108+73.31	LT	480.1	504.0	23.9	37		8.8		
109+29.18	132+45.16	LT	279.2	294.4	15.2	18		4.8		
3+77.66	4+37.66	RT	33.3	33.3				0.6		
5+67.46	6+01.18	RT	30.1	47.8	17.7	12		0.3		
6+64.84	8+60.33	RT	97.3	125.2	27.9	28		2.0		
9+11.95	9+36.73	RT	3.9	13.4	9.5	18		0.2		
10+57.47	10+99.00	RT	24.3	40.9	16.6	12		0.4		
11+63.39	12+39.76	RT	44.6	65.1	20.5	12		0.8		
13+03.09	13+48.00	RT	2.8	27.6	24.8	39		0.4		
14+38.63	14+71.75	RT	17.6	34.3	16.7	10		0.3		
15+35.05	17+04.92	RT	97.3	113.7	16.4	12		1.7		
17+53.97	19+14.19	RT	99.6	114.4	14.8	10		1.6		
43+78.70	43+78.70	RT							5	
45+09.77	47+05.70	RT	108.3	108.3				2.0		
50+13.17	50+32.49	RT	2.9	19.4	16.5	10		0.2		
51+39.53	51+60.99	RT	5.0	28.6	23.6	10		0.2		
55+51.01	55+50.95	RT	2.9	2.9						
60+48.00	60+48.00	RT							5	
61+43.47	61+42.79	RT							5	
62+78.83	62+99.64	RT	7.5	13.3	5.8			0.2		
67+32.03	70+84.11	RT	189.2	206.2	17.0	10		3.5		
71+09.94	74+98.81	RT	206.0	217.3	11.3	10		3.9		
75+33.29	82+46.39	RT	382.7	394.7	12.0	20		7.1		
82+77.66	83+78.65	RT	50.3	56.4	6.1	10		1.0		
84+36.93	87+85.07	RT					348.3			
88+27.75	89+76.98	RT					149.2			
87+67.26	87+95.59	RT	10.5	15.8	5.3			0.3		
88+15.57	93+18.01	RT	278.6	304.7	26.1	10		5.0		
93+61.84	99+16.30	RT	306.1	333.5	27.4	22		5.5		
99+36.43	104+18.04	RT	249.4	267.3	17.9	27.5		4.8		
104+81.76	105+04.60	RT				22.8				
105+26.67	108+72.17	RT	174.1	195.2	21.1	33.2		3.5		
109+17.05	109+45.00	RT	5.0	17.0	12.0	23.76		0.3		
11+19.52	11+43.15	RT				20				ISLANDS AT ROCKMAN LN.
14+23.54	14+38.08	RT				30				ISLANDS AT BUTTONWOOD
17+29.15	17+44.80	RT				24				ISLANDS AT HYDE PARK
26+19.55	27+42.42	LT AND RT				120				STATE FARM PARKWAY ISLANDS
65+80.18	67+00.00	LT AND RT				120				ROCK QUARRY ROAD ISLANDS
93+00.00	94+00.00	LT AND RT				120				BEARFIELD ROAD ISLANDS
		TOTALS	5043.7	5733	690.0	664	683	91.1	40.0	

1/5/2026

STATE OF MISSOURI
BENJAMIN A. ROSS
NUMBER E-30054
REGISTERED PROFESSIONAL ENGINEER

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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)

Engineering Surveys & Services
DELIVERING YOUR VISION™
1113 Fay Street, Columbia, MO 65201
573.445.9853 www.ess-mo.com
MO Land Surveying Corp. # 2004004572
MO Engineering Corp. # 2004005918

SUMMARY OF QUANTITY SHEET
SHEET 6 OF 10

SODDING AND SEED AND MULCH

STA.	STA.	LOCATION	TURF TYPE TALL FESSCUE SODDING (SY)	SEEDING - COOL SEASON MIXTURES (AC)	MULCHING (AC)	TEMPORARY SEED AND MULCH (AC)	REMARKS
2+32.44	2+63.24	LT	34.2				
3+57.02	3+62.01	LT	5.5				
7+95.15	8+20.10	LT	27.7				
10+72.21	10+74.21	LT	2.2				
11+96.55	12+10.90	LT	15.9				
12+98.51	13+38.18	LT	44.1				
14+08.93	14+65.79	LT	63.2				
16+73.40	17+03.02	LT	32.9				
17+35.97	17+55.44	LT	21.6				
17+83.27	21+23.90	LT	378.5				
17+88.96	19+79.28	LT	211.5				
21+95.73	26+41.73	LT	495.6				
51+23.58	51+69.35	LT	50.9				
62+00.73	62+05.79	LT		0.03	0.03	0.02	
64+77.08	65+16.79	LT		0.01	0.01	0.01	
66+93.12	67+82.36	LT		0.02	0.02	0.01	
70+27.52	71+05.64	LT		0.02	0.02	0.01	
71+25.51	74+99.60	LT		0.10	0.10	0.05	
75+47.79	77+92.30	LT		0.07	0.07	0.04	
80+45.47	80+69.77	LT		0.01	0.01	0.01	
80+89.44	82+59.80	LT		0.05	0.05	0.03	
82+79.14	84+62.29	LT		0.05	0.05	0.03	
84+81.72	87+87.10	LT		0.08	0.08	0.04	
88+26.90	92+99.87	LT		0.13	0.13	0.07	
93+82.58	94+60.00	LT		0.02	0.02	0.01	
98+85.42	99+38.29	LT		0.01	0.01	0.01	
99+88.46	108+73.31	LT		0.24	0.24	0.12	
109+29.18	132+45.16	LT		0.64	0.64	0.32	
3+77.66	4+37.66	RT	66.7				
5+67.46	6+01.18	RT	37.5				
6+64.84	8+60.33	RT	217.2				
9+11.95	9+36.73	RT	27.5				
10+57.47	10+99.00	RT	46.1				
11+63.39	12+39.76	RT	84.9				
13+03.09	13+48.00	RT	49.9				
14+38.63	14+71.75	RT	36.8				
15+35.05	17+04.92	RT	188.7				
17+53.97	19+14.19	RT	178.0				
45+09.77	47+05.70	RT	217.7				
50+13.17	50+32.49	RT	21.5				
51+39.53	51+60.99	RT	23.8				
62+78.83	62+99.64	RT		0.01	0.01	0.01	
67+32.03	70+84.11	RT		0.10	0.10	0.05	
71+09.94	74+98.81	RT		0.11	0.11	0.06	
75+33.29	82+46.39	RT		0.20	0.20	0.10	
82+77.66	83+78.65	RT		0.03	0.03	0.02	
84+36.93	87+85.07	RT		0.10	0.10	0.05	
88+27.75	89+76.98	RT		0.04	0.04	0.02	
87+67.26	87+95.59	RT		0.01	0.01	0.01	
88+15.57	93+18.01	RT		0.14	0.14	0.07	
93+61.84	99+16.30	RT		0.15	0.15	0.08	
99+36.43	104+18.04	RT		0.13	0.13	0.07	
104+81.76	105+04.60	RT		0.01	0.01	0.01	
105+26.67	108+72.17	RT		0.10	0.10	0.05	
109+17.05	109+45.00	RT		0.01	0.01	0.01	
11+19.52	11+43.15	RT		0.01	0.01	0.01	
		TOTAL	2580.0	2.6	2.6	1.4	

1/5/2026

STATE OF MISSOURI
BENJAMIN A. ROSS
NUMBER E-30054
REGISTERED PROFESSIONAL ENGINEER

BENJAMIN A. ROSS
REGISTERED PROFESSIONAL ENGINEER E-30054

DATE PREPARED
1/5/2026

ROUTE	STATE
AC	MO

DISTRICT	SHEET NO.
CD	3

COUNTY
BOONE

JOB NO.
JCD0123

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL
JEFFERSON CITY, MO 65102
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MO Land Surveying Corp. # 2004004672
MO Engineering Corp. # 2004005518

SUMMARY OF QUANTITY SHEET
SHEET 7 OF 10

TEMPORARY EROSION CONTROL

STA.	STA.	LOCATION	SILT FENCE (LF)	INLET CHECK (EACH)	SEDIMENT REMOVAL (CY)	REMARKS
2+24.56	2+51.12	LT	30.8		3	
2+61.35	2+69.09	LT	9.7		1	
3+258.50		RT		1	1	
3+69.81	4+48.59	RT	81.5		8	
4+88.07		RT		1	1	
5+60.95	5+97.85	RT	65.6		7	
6+66.77	6+97.18	RT	40.2		4	
6+98.86		RT		1	1	
7+45.69		RT		1	1	
7+30.39	7+74.41	RT	44.1		4	
8+30.47	8+61.00	RT	30.9		3	
9+13.39	9+42.36	RT	29.1		3	
9+35.59		RT		1	1	
10+55.86	10+96.89	RT	58.8		6	
11+68.70	12+46.63	RT	91.1		9	
12+04.24		RT		1	1	
13+03.79	13+49.43	RT	45.6		5	
12+99.13		LT		1	1	
13+26.59	13+35.95	LT	37		3	
14+16.72		LT		1	1	
14+32.67	14+33.58	LT	8		1	
14+34.87	14+42.09	LT	8.1		1	
14+66.15		LT		1	1	
14+41.30	14+81.68	RT	59.4		6	
15+04.11		RT		1	1	
17+02.26		RT		1	1	
17+59.23	19+21.63	RT	174		17	
17+45.72		LT		1	1	
18+63.60		LT		1	1	
20+14.81		LT		1	1	
20+75.80	21+23.62	LT	47.1		5	
21+82.15	21+92.59	LT	10		1	
22+01.31	23+19.09	LT	121.8		12	
23+90.42	24+51.66	LT	59.7		6	
25+35.37	26+36.25	LT	201.4		20	
25+29.32		LT		1	1	
50+65.97		LT		1	1	
51+11.22		LT		1	1	
50+60.03		RT		1	1	
51+19.00		RT		1	1	
51+52.82	51+67.47	RT	27.4		3	
61+76.81	61+86.50	LT	33		3	
62+01.56	62+21.36	LT	33.6		3	
62+66.94	62+97.50	RT	35.2		4	
64+78.38	65+18.17	LT	102.1		10	
66+87.53	68+00.88	LT	118.9		12	
70+69.35		LT		1	1	
70+99.22	71+05.28	LT	11.7		1	
71+28.61	71+57.45	LT	30.7		3	
71+17.7	71+35.73	RT	21.5		2	
73+12.86		LT		1	1	
74+16.46		RT		1	1	
75+46.53		RT		1	1	
77+90.90	78+14.39	RT	23.3		2	
79+65.77	79+93.87	RT	27.9		3	
80+54.80		LT		1	1	
82+35.38		RT		1	1	
84+48.51		LT		1	1	
87+57.63	87+76.12	LT	31.2		3	
88+27.83	88+55.80	LT	31.6		3	
87+60.74	88+27.33	RT	66.6		7	
89+59.10		RT		1	1	
88+94.69		LT		1	1	
		SUBTOTAL	1849	28	212	

1/5/2026

STATE OF MISSOURI
BENJAMIN A. ROSS
NUMBER E-30054
REGISTERED PROFESSIONAL ENGINEER

BENJAMIN A. ROSS
REGISTERED PROFESSIONAL ENGINEER E-30054

DATE PREPARED
1/5/2026

ROUTE	STATE
AC	MO

DISTRICT	SHEET NO.
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MO Engineering Corp. # 2004005918

SUMMARY OF QUANTITY SHEET
SHEET 8 OF 10

TEMPORARY EROSION CONTROL (CONTINUED)

STA.	STA.	LOCATION	SILT FENCE (LF)	INLET CHECK (EACH)	SEDIMENT REMOVAL (CY)	REMARKS
89+59.10		LT		1	1	
91+82.66	92+88.48	LT	142.5		14	
92+26.28		LT		1	1	
93+89.24	94+65.74	LT	97.4		10	
94+54.12		LT		1	1	
92+37.73		RT		1	1	
94+0161		RT		1	1	
96+22.53	99+11.08	RT	287		29	
101+57.07	101+99.12	LT	43.5		4	
102+45.54	104+63.59	LT	215.8		22	
104+28.93		RT		1	1	
105+16.30		RT		1	1	
105+99.04	108+66.37	LT	276		28	
108+61.51		LT		1	1	
109+40.01	111+72.40	LT	250.6		25	
130+00.00	132+47.06	LT	247.1	`	25	
109+48.09		LT		1	1	
130+41.51		LT		1	1	
132+13.18		LT		1	1	
109+18.93	109+66.31	RT	47.4		5	
109+32.05		RT		1	1	
		SUBTOTAL	1607	12	174	
		SUBTOTAL TABLE 1	1849	28	212	
		TOTAL	3456	40	386	

1/5/2026

STATE OF MISSOURI
BENJAMIN A. ROSS
NUMBER E-30054
REGISTERED PROFESSIONAL ENGINEER

BENJAMIN A. ROSS
REGISTERED PROFESSIONAL ENGINEER E-30054

DATE PREPARED
1/5/2026

ROUTE	STATE
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SUMMARY OF QUANTITY SHEET

SHEET 9 OF 10

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						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	2	32.00				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						UNEVEN LANES
WO8-12	48X48	16.00						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)
W012-2x	24X18	3.00						LOW CLEARANCE (PLAQUE)
WO12-2a	84X24	14.00						OVERHEAD LOW CLEARANCE (FEET AND INCHES)
WO12-4	120X60	50.00						LOW CLEARANCE XX FT XX IN XX MILES AHEAD
WO12-5	120X60	50.00						WIDTH RESTRICTION XX FT XX IN XX MILES AHEAD
WO13-1	30X30	6.25						ADVISORY SPEED (PLAQUE)
WO16-2	30X24	5.00						XXX FEET (PLAQUE)
WO16-3	30X24	5.00						X MILE (PLAQUE)
WO20-1	48X48	16.00	31	496.00				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						ONE LANE ROAD AHEAD
WO20-5	48X48	16.00	4	64.00				RIGHT/CENTER/LEFT LANE CLOSED AHEAD
WO20-5a	48X48	16.00	4	64.00				2 RIGHT/CENTER/LEFT LANES CLOSED AHEAD
WO20-6a	48X48	16.00						RIGHT/CENTER/LEFT LANE CLOSED
WO20-7a	48X48	16.00						FLAGGER (SYMBOL)
WO21-2	36X36	9.00						FRESH OIL
WO21-5	48X48	16.00	2	32.00				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						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						ROAD WORK NEXT XX MILES
GO20-2	48X24	8.00						END ROAD WORK
GO20-4	36X18	4.50						PILOT CAR FOLLOW ME
GO20-4a	42X30	8.75						PILOT CAR IN USE WAIT & FOLLOW
GO20-4a	18X12	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	4	25.00				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	4	25.00				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	10	20.00				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	3	30.00				ROAD CLOSED
R11-3a	60X30	12.50						ROAD CLOSED XX MILES AHEAD LOCAL TRAFFIC ONLY
R11-4	60X30	12.50	2	25.00				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						WORK ZONE NO PHONE ZONE

616-10.05 CONSTRUCTION SIGNS	TOTAL	813
616-10.10 RELOCATED SIGNS	TOTAL	

ITEM NUMBER	TOTAL QTY	EFFECTIVE: 07-01-2025 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	1	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	250	CHANNELIZER (TRIM-LINE)
6161026		CHANNELIZER (VERTICAL PANEL)
6161030	11	TYPE 3 MOVEABLE BARRICADE
6161033	44	DIRECTION INDICATOR BARRICADE
6161040	2	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
	10	ADA COMPLIANT BARRICADE
6161099		
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

1/5/2026

STATE OF MISSOURI
BENJAMIN A. ROSS
NUMBER E-30054
REGISTERED PROFESSIONAL ENGINEER

BENJAMIN A. ROSS
REGISTERED PROFESSIONAL ENGINEER E-30054

DATE PREPARED
1/5/2026

ROUTE	STATE
AC	MO
DISTRICT	SHEET NO.
CD	3

COUNTY
BOONE

JOB NO.
JCD0123

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION | DATE | NO.

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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

Engineering Surveys & Services
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573.445.9994 www.allenassoc.com
MO Land Surveying Corp. # 2004004272
MO Engineering Corp. # 2004005918

SUMMARY OF QUANTITY SHEET
SHEET 10 OF 10

#4 REBAR WITH CAP "CITY OF COLUMBIA"
CORNER COMMON TO SECTIONS 23, 24, 25, 26 T48N R13W
WITNESSED BY DONALD D. NICHOLSON L.S. 1755
ON OCTOBER 15, 1985. DNR DOC. # 600-36473

1/4 1/4 SEC LINE

S01°27'14"W

EQUATION:
STA 204+91.87 BK =
STA 204+92.53 POT STA A 204+92.53

205

SW 1/4 SE 1/4
SECTION 25 T48N R13W

WENDY'S

S 34°53'44" E 533.31'

OWNER: TKG ROCK BRIDGE CENTER LLC

SCALE
0 20 40 60

EX. 5' SW

STA 2+32.44
OFF 90.83' LT.

STA 2+43.39
OFF 83.04' LT.

FENCE
(UIP)

STA 2+63.24
OFF 73.46' LT.

STA 3+56.99
OFF 83.74' LT.

M.E.

STA 3+61.98
OFF 83.76' LT.

EXISTING R/W

(R)

(UIP)

(UIP)

STA 3+57.02
OFF 72.74' LT.

STA 3+62.01
OFF 72.76' LT.

M.E.

M.E.

EX. 5' SW

EX. 5' SW

UT

SIGN

SIGN

SIGN

START STA 1+79.15

BEGIN PROJECT
STA 1+79.15 ROUTE AC (NIFONG BOULEVARD)

℄ ROUTE AC (NIFONG BOULEVARD)

S83°19'11"E

UE

84°27'16"

1/4 SEC LINE

UT

SIGN

SIGN SIGN

SIGN

SIGN

TMH

℄ STATE HIGHWAY 163 (PROVIDENCE ROAD)

UE

UE

EX. 5' SW

M.E.

5' SW

M.E.

EX. 5' SW

STA 3+77.66
OFF 48.96' RT.

(UIP)

(R) S.L.

STA 4+37.66
OFF 48.96' RT.

EXISTING R/W

UT

MATCHLINE STA. 5+25.00

OWNER: COMMERCE BANK NA

SW 1/4 SE 1/4
SECTION 25 T48N R13W

4" SIDEWALK (SW)	S - SIDEWALK	DND - DO NOT DISTURB
CURB RAMP	R - RAMP	UIP - USE IN PLACE
TRUNCATED DOMES	T - TRANSITION	ATG - ADJUST TO GRADE
PAVED APPROACH	L - LANDING	S.L. - SLOPE LIMIT
		M.E. - MATCH EXISTING

1/5/2026

STATE OF MISSOURI
BENJAMIN A. ROSS
NUMBER E-30054
REGISTERED PROFESSIONAL ENGINEER

BENJAMIN A. ROSS
REGISTERED PROFESSIONAL ENGINEER E-30054

DATE PREPARED
1/5/2026

ROUTE	STATE
AC	MO
DISTRICT	SHEET NO.
CD	4

COUNTY
BOONE

JOB NO.
JCD0123

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION	DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL
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MO Engineering Corp. # 2004005918

PLAN SHEETS
SHEET 1 OF 25

SCALE
0 20 40 60

1/4 1/4 SEC LINE
SW 1/4 SE 1/4
SECTION 25 T48N R13W

HYVEE GAS STATION

OWNER: TKG ROCK BRIDGE CENTER LLC

OWNER: TKG ROCK BRIDGE CENTER LLC

OWNER: TKG ROCK BRIDGE CENTER LLC

OWNER: TKG ROCK BRIDGE CENTER LLC

10

MATCHLINE STA. 5+25.00

MATCHLINE STA. 10+60.00

℄ ROUTE AC (NIFONG BOULEVARD)

EXISTING R/W

EX. 5' SW

STA 7+95.15
OFF 53.09' LT.
M.E.

5' SW

STA 8+20.10
OFF 51.48' LT.
M.E.
(R)

S.L.

STORM

EXISTING R/W
EX. 5' SW

SANDMAN LANE
STA. 6+33.95

90°0'0"

ENTRANCE
STA. 6+32.76

ENTRANCE
STA. 8+86.97

S83°19'11"E

ENTRANCE
STA. 8+85.95

REMOVE & REPLACE
ISLAND

STA 6+41.24
OFF 47.50' RT.
8" CONCRETE PAVEMENT
(NON-REINFORCED)

TO BE ADJUSTED
BY|OTHERS

STA 6+36.84
OFF 47.66' RT.
5' SW

EX. 5' SW
M.E.
(R)
S.L.
(UIP)
STA 5+67.46
OFF 49.02' RT.

STA 5+94.87
OFF 55.15' RT.

STA 6+00.72
OFF 72.05' RT.
5' SW

STA 6+01.18
OFF 95.29' RT.
M.E.

3.7%

STA 6+90.46
OFF 49.21' RT.

STA 6+74.13
OFF 58.32' RT.

STA 6+65.47
OFF 74.36' RT.

STA 6+64.84
OFF 76.94' RT.
M.E.

EXISTING R/W

STA 8+44.27
OFF 49.31' RT.

STA 8+60.11
OFF 49.32' RT.

STA 9+36.73
OFF 48.88' RT.

STA 9+29.69
OFF 49.37' RT.

STA 9+12.57
OFF 49.36' RT.

STA 10+57.47
OFF 48.79' RT.

EXIST. CITY R/W

EXIST. CITY R/W

SANDMAN LANE

OWNER: COMMERCE BANK NA

OWNER: MCDONALDS REAL EST CO OF COL MD #24-349

SW 1/4 SE 1/4
SECTION 25 T48N R13W

NOTE:
DND IRRIGATION SYSTEM
IF ENCOUNTERED SEE JSP.

(1)

OWNER: CPD ENTERPRISES LLC
(SEE NEXT SHEET)

4" SIDEWALK (SW)
CURB RAMP
TRUNCATED DOMES
PAVED APPROACH

S - SIDEWALK
R - RAMP
T - TRANSITION
L - LANDING

DND - DO NOT DISTURB
UIP - USE IN PLACE
ATG - ADJUST TO GRADE
S.L. - SLOPE LIMIT
M.E. - MATCH EXISTING

1/5/2026
STATE OF MISSOURI
BENJAMIN A. ROSS
NUMBER E-30054
REGISTERED PROFESSIONAL ENGINEER
Benjamin A. Ross

BENJAMIN A. ROSS
REGISTERED PROFESSIONAL ENGINEER E-30054

DATE PREPARED
1/5/2026

ROUTE	STATE
AC	MO
DISTRICT	SHEET NO.
CD	5

COUNTY
BOONE

JOB NO.
JCD0123

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION	DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
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MO Engineering Corp. # 2004005516

PLAN SHEETS
SHEET 2 OF 25

SCALE
0 20 40 60

TAKE 5 OIL CHANGE

OWNER: TKG ROCK BRIDGE CENTER LLC

STARBUCKS COFFEE

1/4 1/4 SEC LINE

SW 1/4 SE 1/4
SECTION 25 T48N R13W

OWNER: TKG ROCK BRIDGE CENTER LLC

OWNER: TKG ROCK BRIDGE CENTER LLC

EXIST. CITY R/W

STA 13+38.18
OFF 90.17' LT.

STA 13+37.33
OFF 77.99' LT.

STA 13+37.39
OFF 72.99' LT.

STA 13+37.51
OFF 62.31' LT.

STA 13+26.12
OFF 52.89' LT.

STA 13+19.29
OFF 49.58' LT.

STA 13+08.10
OFF 49.58' LT.

STA 12+98.61
OFF 49.09' LT.

M.E.

TRIM BUSHES IN THIS AREA

5' SW

EXIST. CITY R/W

1/4 1/4 SEC LINE

PIZZA HUT

SE 1/4 SE 1/4
SECTION 25 T48N R13W

OWNER: FUGATE J LARRY REVOCABLE TRUST

OWNER: ENNIS GARY N & KATHLEEN F TRUSTS

STA 14+08.93
OFF 91.76' LT.

STA 14+20.15
OFF 84.26' LT.

STA 14+20.18
OFF 78.47' LT.

STA 14+20.20
OFF 73.47' LT.

STA 14+41.81
OFF 53.43' LT.

STA 14+60.79
OFF 49.28' LT.

STA 14+65.79
OFF 49.21' LT.

STA 10+73.24
OFF 49.07' LT.

EXISTING R/W

TRIP HAZARD
(GRIND JOINT)

8" CONCRETE PAVEMENT
(NON-REINFORCED)

1.6%

STA 11+96.55
OFF 49.10' LT.

STA 12+10.90
OFF 49.10' LT.

5' SW

EX. 5' SW

EXISTING R/W

EX. 5' SW

MATCHLINE STA. 10+60.00

MATCHLINE STA. 15+95.00

℄ ROUTE AC (NIFONG BOULEVARD)

S83°19'11"E.

ROCKMAN LANE
STA. 11+32.35

90°0'0"

ENTRANCE
STA. 11+33.69

90°0'0"

BUTTONWOOD DRIVE
STA. 13+71.28

90°0'0"

12'

BUTTONWOOD DRIVE
STA. 13+94.34

84°18'0"

PERMANENT SIDEWALK EASEMENT

STA 11+23.32
OFF 44.06' RT.

STA 11+39.42
OFF 44.12' RT.

5' SW

EX. 5' SW

M.E.

STA 12+39.76
OFF 48.97' RT.

5' SW (R)

STA 13+03.09
OFF 49.08' RT.

STA 13+08.09
OFF 49.59' RT.

8" CONCRETE PAVEMENT
(NON-REINFORCED)

STA 15+35.05
OFF 48.98' RT.

STA 14+70.57
OFF 63.74' RT.

STA 14+65.51
OFF 67.70' RT.

STA 14+51.79
OFF 80.60' RT.

STA 14+38.63
OFF 102.52' RT.

STA 10+85.98
OFF 55.49' RT.

STA 10+98.31
OFF 74.63' RT.

STA 10+99.00
OFF 81.41' RT.

STA 11+72.37
OFF 60.18' RT.

STA 11+65.10
OFF 76.60' RT.

STA 11+63.39
OFF 90.22' RT.

EXISTING R/W

NOTE:
DND IRRIGATION SYSTEM
IF ENCOUNTERED SEE JSP.

NOTE:
EXISTING SIGNS REMOVED SHALL BE REPLACED USING EXISTING SIGNS, POSTS, AND BOLT DOWN BASES. NO DIRECT PAY

1/4 1/4 SEC LINE

ROCKMAN LANE

EXIST. CITY R/W

EXIST. CITY R/W

BUTTONWOOD DRIVE

EXIST. CITY R/W

EXIST. CITY R/W

OWNER: CPD ENTERPRISES LLC
11.00 SQ. FT. PERM SIDEWALK EASEMENT
1.14 AC. REMAINING ACREAGE
1.14 AC. BEGINNING ACREAGE
(PER CITY OF COLUMBIA GIS)

OWNER: NIFONG LAND INVESTMENTS LLC

OWNER: DL ROGERS CORP

SW 1/4 SE 1/4
SECTION 25 T48N R13W

SE 1/4 SE 1/4
SECTION 25 T48N R13W

4" SIDEWALK (SW)
CURB RAMP
TRUNCATED DOMES
PAVED APPROACH

S - SIDEWALK
R - RAMP
T - TRANSITION
L - LANDING

DND - DO NOT DISTURB
UIP - USE IN PLACE
ATG - ADJUST TO GRADE
S.L. - SLOPE LIMIT
M.E. - MATCH EXISTING

1/5/2026

STATE OF MISSOURI
BENJAMIN A. ROSS
NUMBER E-30054
REGISTERED PROFESSIONAL ENGINEER

BENJAMIN A. ROSS
REGISTERED PROFESSIONAL ENGINEER E-30054

DATE PREPARED
1/5/2026

ROUTE	STATE
AC	MO
DISTRICT	SHEET NO.
CD	6

COUNTY
BOONE

JOB NO.
JCD0123

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION	DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL
JEFFERSON CITY, MO 65102
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MO Land Surveying Corp. # 2004004572
MO Engineering Corp. # 2004005918

PLAN SHEETS
SHEET 3 OF 25

SCALE
0 20 40 60

PI 24+88.15
PC 17+78.80
PT 31+40.47
Δ 39°38'0.0" (LT)
D 2°54'38.3"
L 1,361.67' (ARC)
T 709.35'
R 1,968.49'

EL MAGUEY

OWNER: ENNIS GARY N & KATHLEEN F TRUSTS

OWNER: NIFONG PROPERTIES LLC

NE 1/4 SE 1/4
SECTION 25 T48N R13W

OWNER: THF RED OAK DEVELOPMENT LLC #200

1/4 1/4 SEC LINE

SE 1/4 SE 1/4
SECTION 25 T48N R13W

NOTE:
DND IRRIGATION SYSTEM
IF ENCOUNTERED SEE JSP.

EXISTING R/W

STA 17+02.42
OFF 49.74' LT.
STA 16+90.81
OFF 49.70' LT.
STA 16+73.40
OFF 49.13' LT.
STA 17+36.38
OFF 49.88' LT.
STA 17+54.99
OFF 49.95' LT.
STA 17+83.76
OFF 50.06' LT.
STA 17+89.00
OFF 49.68'
END OF HANDRAIL
STA 17+93.06
OFF 50.05' LT.
STA 19+79.32
OFF 49.45'
END OF HANDRAIL
STA 21+22.71
OFF 60.80'
STA 21+23.05
OFF 56.84' LT.
STA 21+05.29
OFF 55.28' LT.

MATCHLINE STA. 15+95.00

MATCHLINE STA. 21+30.00

℄ ROUTE AC (NIFONG BOULEVARD)

S83°19'11"E

ENTRANCE
STA. 17+20.11

HYDE PARK AVENUE
STA. 17+21.13

ENTRANCE
STA. 17+69.99

PC STA 17+78.80

90°0'0"
90°0'0"
84°34'10"

5' SW
EX. 5' SW
RELOCATE SIGN
M.E.
S.L.
(R)
(UIP)
(ATG)
G
L
X

STA 17+31.13
OFF 44.87' RT.
STA 17+46.88
OFF 48.03' RT.
8" CONCRETE PAVEMENT
(NON-REINFORCED)
STA 16+94.83
OFF 58.93' RT.
STA 17+03.60
OFF 75.58' RT.
STA 17+04.92
OFF 85.50' RT.
STA 17+70.18
OFF 58.67' RT.
STA 17+58.42
OFF 73.34' RT.
STA 17+53.97
OFF 88.03' RT.
STA 19+14.19
OFF 54.94' RT.
1.1%
TMH
HYD
WV

HYDE PARK AVENUE
EXIST. CITY R/W
EXIST. CITY R/W

OWNER: DL ROGERS CORP

OWNER: BROCKMAN FARMING LLC

OWNER: HYDE PARK TOWNHOMES LLC

SE 1/4 SE 1/4
SECTION 25 T48N R13W

4" SIDEWALK (SW)
CURB RAMP
TRUNCATED DOMES
PAVED APPROACH

S - SIDEWALK
R - RAMP
T - TRANSITION
L - LANDING

DND - DO NOT DISTURB
UIP - USE IN PLACE
ATG - ADJUST TO GRADE
S.L. - SLOPE LIMIT
M.E. - MATCH EXISTING

1/5/2026
STATE OF MISSOURI
BENJAMIN A. ROSS
NUMBER E-30054
REGISTERED PROFESSIONAL ENGINEER
Benjamin A. Ross

BENJAMIN A. ROSS
REGISTERED PROFESSIONAL ENGINEER E-30054

DATE PREPARED
1/5/2026

ROUTE	STATE
AC	MO
DISTRICT	SHEET NO.
CD	7

COUNTY
BOONE

JOB NO.
JCD0123

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION	DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
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MO Land Surveying Corp. # 2004005672
MO Engineering Corp. # 2004005918

PLAN SHEETS
SHEET 4 OF 25

4" SIDEWALK (SW)
CURB RAMP
TRUNCATED DOMES
PAVED APPROACH

S - SIDEWALK
R - RAMP
T - TRANSITION
L - LANDING

DND - DO NOT DISTURB
UIP - USE IN PLACE
ATG - ADJUST TO GRADE
S.L. - SLOPE LIMIT
M.E. - MATCH EXISTING

SCALE
0 20 40 60

NE 1/4 SE 1/4
SECTION 25 T48N R13W

PI 24+88.15
PC 17+78.80
PT 31+40.47
Δ 39°38'0.0" (LT)
D 2°54'38.3"
L 1,361.67' (ARC)
T 709.35'
R 1,968.49'

OWNER: THE RED OAK DEVELOPMENT LLC #200

NOTE:
DND IRRIGATION SYSTEM
IF ENCOUNTERED SEE JSP.

MATCHLINE STA. 21+30.00

MATCHLINE STA. 26+65.00

℄ ROUTE AC (NIFONG BOULEVARD)

℄ STATE FARM PARKWAY

1/4 1/4 SEC LINE
SECTION 25 T48N R13W

RANGE LINE

EXISTING R/W

EX. 5' SW
M.E.
(DND)
(DND)
STA 22+00.66
OFF 89.65' LT.
STA 22+31.77
OFF 62.90' LT.
STA 22+36.72
OFF 70.54' LT.
STA 22+36.95
OFF 62.55' LT.
STA 22+11.60
OFF 62.22' LT.
(R)
S.L.
5' SW
(UIP)
STA 26+11.54
OFF 80.20' LT.
STA 25+92.22
OFF 62.72' LT.
SIGN
SAN
HYD
GV
UE
C
25
90°0'0"
ENTRANCE
STA. 21+63.38
247.46'

OWNER: HYDE PARK TOWNHOMES LLC

OWNER: HYDE PARK TOWNHOMES LLC

SE 1/4 SE 1/4
SECTION 25 T48N R13W

OWNER: OLD NIFONG RE LLC

SW 1/4 SW 1/4
SECTION 30 T48N R12W

1/5/2026
STATE OF MISSOURI
BENJAMIN A. ROSS
NUMBER E-30054
REGISTERED PROFESSIONAL ENGINEER
Benjamin A. Ross

BENJAMIN A. ROSS
REGISTERED PROFESSIONAL ENGINEER E-30054

DATE PREPARED
1/5/2026

ROUTE	STATE
AC	MO
DISTRICT	SHEET NO.
CD	8

COUNTY
BOONE

JOB NO.
JCD0123

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL
JEFFERSON CITY, MO 65102
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573.443.3363 www.jsse.com
MO LA and Surveying Corp. # 2004004672
MO Engineering Corp. # 2004005516

PLAN SHEETS
SHEET 5 OF 25

4" SIDEWALK (SW)
CURB RAMP
TRUNCATED DOMES
PAVED APPROACH

S - SIDEWALK
R - RAMP
T - TRANSITION
L - LANDING

DND - DO NOT DISTURB
UIP - USE IN PLACE
ATG - ADJUST TO GRADE
S.L. - SLOPE LIMIT
M.E. - MATCH EXISTING

NOTE:
DND IRRIGATION SYSTEM
IF ENCOUNTERED SEE JSP.

NE 1/4 SE 1/4
SECTION 25 T48N R13W

OWNER: THE RED OAK DEVELOPMENT LLC #200

PI 24+88.15
PC 17+78.80
PT 31+40.47
Δ 39°38'0.0" (LT)
D 2°54'38.3"
L 1,361.67' (ARC)
T 709.35'
R 1,968.49'

START STA 19+18.48
M 90°01'05"
PC STA 19+68.48

STA 26+41.73
OFF 210.65' LT.

EX. 5' SW
M.E.

S.L.

RANGE LINE

EXISTING R/W

5' SW
(UIP)

℄ GREEN MEADOWS ROAD

20

PI 20+70.64
PC 19+68.48
PT 21+70.90
Δ 19°6'30.3" (LT)
D 9°26'23.9"
L 202.42' (ARC)
T 102.16'
R 606.95'

NW 1/4 SW 1/4
SECTION 30 T48N R12W

OWNER: THF GRINDSTONE PLAZA DEVELOPMENT LLC

EXISTING R/W

SCALE
0 20 40 60

STA 26+11.54
OFF 80.20' LT.
(UIP)
SIGN

STA 25+92.22
OFF 62.72' LT.
(UIP)

(R)

25

S.L.

EX. 5' SW

1/4 1/4 SEC LINE
SECTION 25 T48N R13W

℄ ROUTE AC (NIFONG BOULEVARD)

MATCHLINE STA. 23+97.50

RAMP CONSTRUCTION
BY OTHERS

SIDEWALK
CONSTRUCTION
BY OTHERS

PT STA 21+70.90

(UIP)
(UIP)
(UIP)

RANGE LINE

SECTION 30 T48N R12W

MATCHLINE STA. 29+37.50

ROUTE AC (GRINDSTONE PARKWAY) STA. 26+73.85
GREEN MEADOWS ROAD STA. 22+46.46

1/5/2026
STATE OF MISSOURI
BENJAMIN A. ROSS
NUMBER E-30054
REGISTERED PROFESSIONAL ENGINEER
Benjamin A. Ross

BENJAMIN A. ROSS
REGISTERED PROFESSIONAL
ENGINEER E-30054

DATE PREPARED
1/5/2026

ROUTE AC
STATE MO
DISTRICT CD
SHEET NO. 9
COUNTY BOONE
JOB NO. JCD0123
CONTRACT ID.
PROJECT NO.
BRIDGE NO.

DATE | DESCRIPTION

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

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573-445-9853 www.essmo.com
MO Land Surveying Corp. # 2004004272
MO Engineering Corp. # 2004005918

PLAN SHEETS
SHEET 6 OF 25

MATCHLINE STA. 23+97.50

1/4 1/4 SEC LINE

SECTION 25 T48N R13W

℄ ROUTE AC (NIFONG BOULEVARD)

UE

RANGE LINE

UE

UE

(UIP)

(UIP)

(UIP)

SECTION 30 T48N R12W

ROUTE AC (GRINDSTONE PARKWAY) STA. 26+73.85
GREEN MEADOWS ROAD STA. 22+46.46

SCALE
0 20 40 60

MATCHLINE STA. 29+37.50

(UIP)

(UIP)

(UIP)

(UIP)

(UIP)

(UIP)

(UIP)

(UIP)

EXISTING R/W

EXISTING R/W

1/4 1/4 SEC LINE

(UIP)

℄ STATE FARM PARKWAY

S17°56'25"E

SE 1/4 SE 1/4
SECTION 25 T48N R13W

℄

OWNER: OLD NIFONG RE LLC

SW 1/4 SW 1/4
SECTION 30 T48N R12W

OWNER: PL REAL ESTATE LLC

NW 1/4 SW 1/4
SECTION 30 T48N R12W

SW 1/4 SW 1/4
SECTION 30 T48N R12W

PI 24+88.15
PC 17+78.80
PT 31+40.47
Δ 39°38'0.0" (LT)
D 2°54'38.3"
L 1,361.67' (ARC)
T 709.35'
R 1,968.49'

RANGE LINE

25

END STA 25+24.21

4" SIDEWALK (SW)
CURB RAMP
TRUNCATED DOMES
PAVED APPROACH

S - SIDEWALK
R - RAMP
T - TRANSITION
L - LANDING

DND - DO NOT DISTURB
UIP - USE IN PLACE
ATG - ADJUST TO GRADE
S.L. - SLOPE LIMIT
M.E. - MATCH EXISTING

1/5/2026

STATE OF MISSOURI
BENJAMIN A. ROSS
NUMBER E-30054
REGISTERED PROFESSIONAL ENGINEER

BENJAMIN A. ROSS
REGISTERED PROFESSIONAL ENGINEER E-30054

DATE PREPARED
1/5/2026

ROUTE	STATE
AC	MO
DISTRICT	SHEET NO.
CD	10

COUNTY
BOONE

JOB NO.
JCD0123

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

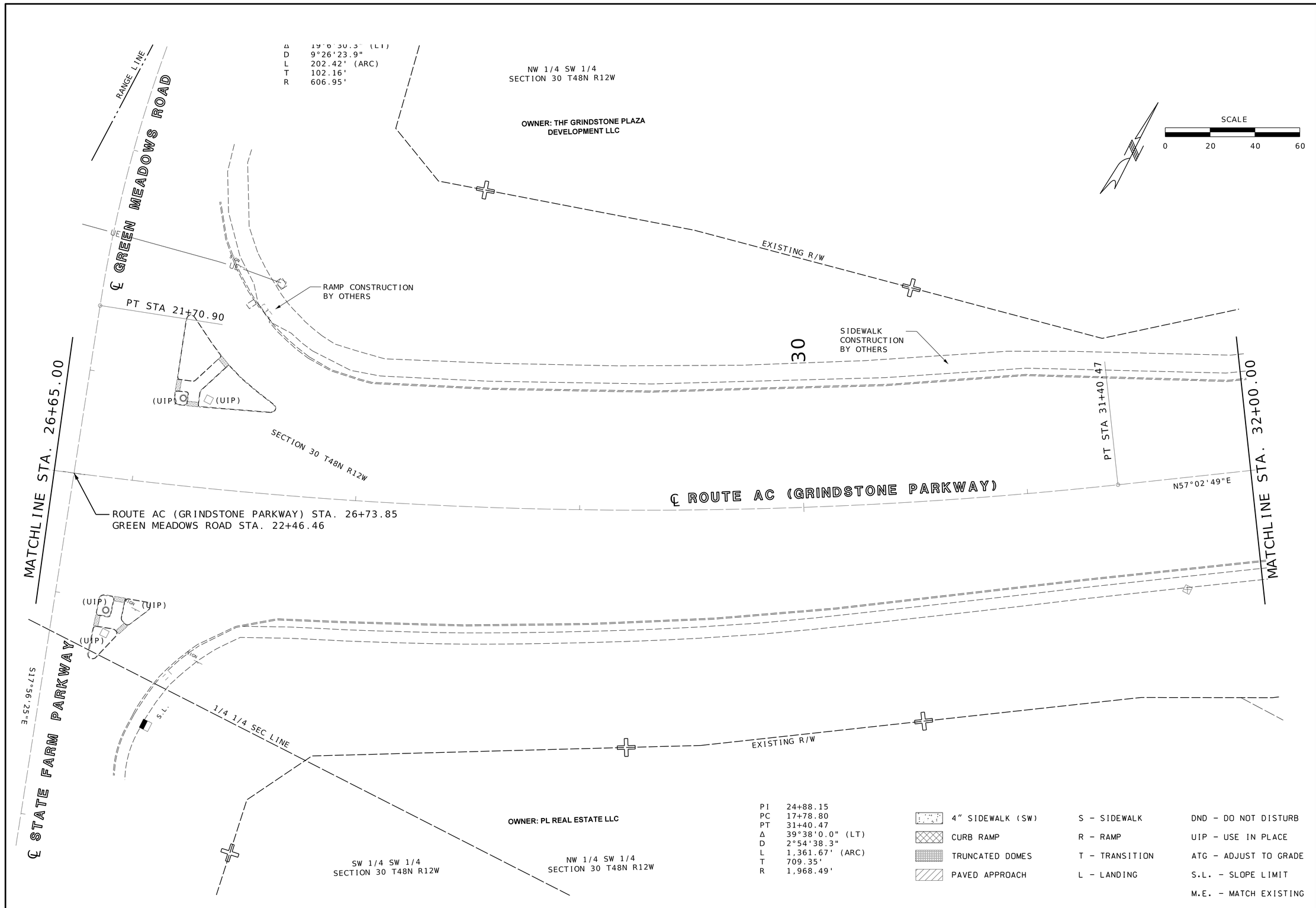
DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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

Engineering Surveys & Services
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573.449.8483 www.ess-mo.com
MO Land Surveying Corp. # 2004004672
MO Engineering Corp. # 2004005918

PLAN SHEETS
SHEET 7 OF 25



1/5/2026

STATE OF MISSOURI
BENJAMIN A. ROSS
NUMBER E-30054
REGISTERED PROFESSIONAL ENGINEER

BENJAMIN A. ROSS
REGISTERED PROFESSIONAL ENGINEER E-30054

DATE PREPARED
1/5/2026

ROUTE	STATE
AC	MO

DISTRICT	SHEET NO.
CD	11

COUNTY
BOONE

JOB NO.
JCD0123

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL
JEFFERSON CITY, MO 65102
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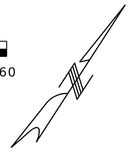
PLAN SHEETS
SHEET 8 OF 25

NW 1/4 SW 1/4
SECTION 30 T48N R12W

WAL-MART SUPERCENTER

OWNER: THF GRINDSTONE PLAZA DEVELOPMENT LLC

SCALE
0 20 40 60



EXISTING R/W

EXISTING R/W

35

SIDEWALK CONSTRUCTION BY OTHERS

RAMP CONSTRUCTION BY OTHERS

RAMP CONSTRUCTION BY OTHERS

SIDEWALK

ENTRANCE
STA. 36+89.76

90°0'0"

℄ ROUTE AC (GRINDSTONE PARKWAY)

N57°02'49"E

MATCHLINE STA. 32+00.00

MATCHLINE STA. 37+35.00

EXISTING R/W

EXISTING R/W

℄

℄

OWNER: PL REAL ESTATE LLC

OWNER: CITY OF COLUMBIA

OWNER: 3511 NORFLEET LLC

NW 1/4 SW 1/4
SECTION 30 T48N R12W

4" SIDEWALK (SW)	S - SIDEWALK	DND - DO NOT DISTURB
CURB RAMP	R - RAMP	UIP - USE IN PLACE
TRUNCATED DOMES	T - TRANSITION	ATG - ADJUST TO GRADE
PAVED APPROACH	L - LANDING	S.L. - SLOPE LIMIT
		M.E. - MATCH EXISTING

1/5/2026

STATE OF MISSOURI
BENJAMIN A. ROSS
NUMBER E-30054
REGISTERED PROFESSIONAL ENGINEER

BENJAMIN A. ROSS
REGISTERED PROFESSIONAL ENGINEER E-30054

DATE PREPARED
1/5/2026

ROUTE	STATE
AC	MO
DISTRICT	SHEET NO.
CD	12

COUNTY
BOONE

JOB NO.
JCD0123

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL
JEFFERSON CITY, MO 65102
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MO Engineering Corp. # 2004005918

PLAN SHEETS
SHEET 9 OF 25

4" SIDEWALK (SW)	S - SIDEWALK	DND - DO NOT DISTURB
CURB RAMP	R - RAMP	UIP - USE IN PLACE
TRUNCATED DOMES	T - TRANSITION	ATG - ADJUST TO GRADE
PAVED APPROACH	L - LANDING	S.L. - SLOPE LIMIT
		M.E. - MATCH EXISTING

NW 1/4 SW 1/4
SECTION 30 T48N R12W

WAL-MART SUPERCENTER

OWNER: THF GRINDSTONE PLAZA DEVELOPMENT LLC

SCALE
0 20 40 60

EXISTING R/W

40

STORM

SIGN

MATCHLINE STA. 37+35.00

MATCHLINE STA. 42+70.00

NORFLEET DRIVE
STA. 41+41.00

℄ ROUTE AC (GRINDSTONE PARKWAY)

N57°02'49"E

90°0'0"

EXISTING R/W

OWNER: RED OAK MARKETPLACE LLC

OWNER: BURRITO REAL ESTATE LLC

OWNER: FIRST MIDWEST BANK OF POPLAR BLUFF

OWNER: 3511 NORFLEET LLC

EXIST. CITY R/W

NORFLEET DRIVE

EXIST. CITY R/W

FIRST MIDWEST BANK

NW 1/4 SW 1/4
SECTION 30 T48N R12W

1/5/2026

STATE OF MISSOURI
BENJAMIN A. ROSS
NUMBER E-30054
REGISTERED PROFESSIONAL ENGINEER
Benjamin A. Ross

BENJAMIN A. ROSS
REGISTERED PROFESSIONAL ENGINEER E-30054

DATE PREPARED
1/5/2026

ROUTE	STATE
AC	MO
DISTRICT	SHEET NO.
CD	13

COUNTY
BOONE

JOB NO.
JCD0123

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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PLAN SHEETS
SHEET 10 OF 25

4" SIDEWALK (SW)
CURB RAMP
TRUNCATED DOMES
PAVED APPROACH

S - SIDEWALK
R - RAMP
T - TRANSITION
L - LANDING

DND - DO NOT DISTURB
UIP - USE IN PLACE
ATG - ADJUST TO GRADE
S.L. - SLOPE LIMIT
M.E. - MATCH EXISTING

NW 1/4 SW 1/4
SECTION 30 T48N R12W

OWNER: THF GRINDSTONE PLAZA DEVELOPMENT LLC

SCALE
0 20 40 60

SW 1/4 NW 1/4
SECTION 30
T48N R12W
1/4 SEC LINE

EXISTING R/W

EXISTING R/W

45

EX. 8' SW

MATCHLINE STA. 42+70.00

℄ ROUTE AC (GRINDSTONE PARKWAY)

N57°02'49"E

MATCHLINE STA. 48+05.00

1/4 1/4 SEC LINE

EX. 5' SW

(UIP)

TRIP HAZARD
(GRIND JOINT)

EX. 5' SW

EXISTING R/W

STA 43+79.71
OFF 57.94' RT.

M.E.

S.L.

(UIP)

(R)

S.L.

STA 45+09.76
OFF 58.19' RT.

(DND)

5' SW

(DND)

M.E.

STA 47+05.70
OFF 59.15' RT.

(DND)

(DND)

EX. 5' SW

NOTE:
DND IRRIGATION SYSTEM
IF ENCOUNTERED SEE JSP.

EXISTING R/W

OWNER: FIRST MIDWEST BANK OF POPLAR BLUFF

OWNER: RESTORATION REAL ESTATE PROPERTIES LLC

OWNER: RHODES DEVELOPMENT COMPANY LLC

OWNER: MFA OIL CAPTIVE INC

FIRST MIDWEST BANK

PLAZA TIRE SERVICE

BREAK TIME

NW 1/4 SW 1/4
SECTION 30 T48N R12W

1/5/2026
STATE OF MISSOURI
BENJAMIN A. ROSS
NUMBER E-30054
REGISTERED PROFESSIONAL ENGINEER
Benjamin A. Ross

BENJAMIN A. ROSS
REGISTERED PROFESSIONAL ENGINEER E-30054

DATE PREPARED
1/5/2026

ROUTE	STATE
AC	MO
DISTRICT	SHEET NO.
CD	14

COUNTY
BOONE

JOB NO.
JCD0123

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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MO Engineering Corp. # 2004005918

PLAN SHEETS
SHEET 11 OF 25

SW 1/4 NW 1/4
SECTION 30 T48N R12W

HAWAIIAN BROS
ISLAND GRILL

OWNER: THF GRINDSTONE PLAZA
DEVELOPMENT LLC

SE 1/4 NW 1/4
SECTION 30 T48N R12W

SCALE
0 20 40 60

OWNER: THF GRINDSTONE PLAZA
DEVELOPMENT LLC

NW 1/4 SW 1/4
SECTION 30
T48N R12W

EXISTING R/W

EXIST. CITY R/W

STA 51+30.07
OFF 86.25' LT.
STA 51+33.22
OFF 82.02' LT.
STA 51+46.97
OFF 68.71' LT.
STA 51+69.62
OFF 61.14' LT.

M.E.

8' SW

EX. 8' SW

GRINDSTONE PLAZA DRIVE
STA. 50+87.18

1/4 SEC LINE

GRINDSTONE PLAZA DRIVE
STA. 50+88.41

℄ ROUTE AC (GRINDSTONE PARKWAY)

MATCHLINE STA. 48+05.00

PC STA 48+35.93

N57°02'49"E

MATCHLINE STA. 53+40.00

STA 50+13.17
OFF 71.67' RT.
STA 50+17.30
OFF 74.83' RT.
STA 50+32.08
OFF 87.29' RT.
STA 50+35.90
OFF 90.83' RT.

5' SW

EX. 5' SW

STA 51+65.67
OFF 58.51' RT.
STA 51+62.92
OFF 61.26' RT.

STA 51+47.05
OFF 83.17' RT.
STA 51+44.55
OFF 87.62' RT.

EX. 5' SW

PI 52+73.74
PC 48+35.93
PT 56+77.17
Δ 39°10'35.8" (RT)
D 4°39'25.2"
L 841.24' (ARC)
T 437.81'
R 1,230.31'

OWNER: OWNER: MFA OIL CAPTIVE INC

OWNER: THE CROSSINGS-EPC OF COLUMBIA

BREAK TIME

GRINDSTONE PLAZA DRIVE

EXIST. CITY R/W

NE 1/4 SW 1/4
SECTION 30 T48N R12W

4" SIDEWALK (SW)
CURB RAMP
TRUNCATED DOMES
PAVED APPROACH

S - SIDEWALK
R - RAMP
T - TRANSITION
L - LANDING

DND - DO NOT DISTURB
UIP - USE IN PLACE
ATG - ADJUST TO GRADE
S.L. - SLOPE LIMIT
M.E. - MATCH EXISTING

1/5/2026

STATE OF MISSOURI
BENJAMIN A. ROSS
NUMBER E-30054
REGISTERED PROFESSIONAL ENGINEER

BENJAMIN A. ROSS
REGISTERED PROFESSIONAL ENGINEER E-30054

DATE PREPARED
1/5/2026

ROUTE	STATE
AC	MO
DISTRICT	SHEET NO.
CD	15

COUNTY
BOONE

JOB NO.
JCD0123

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION	DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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

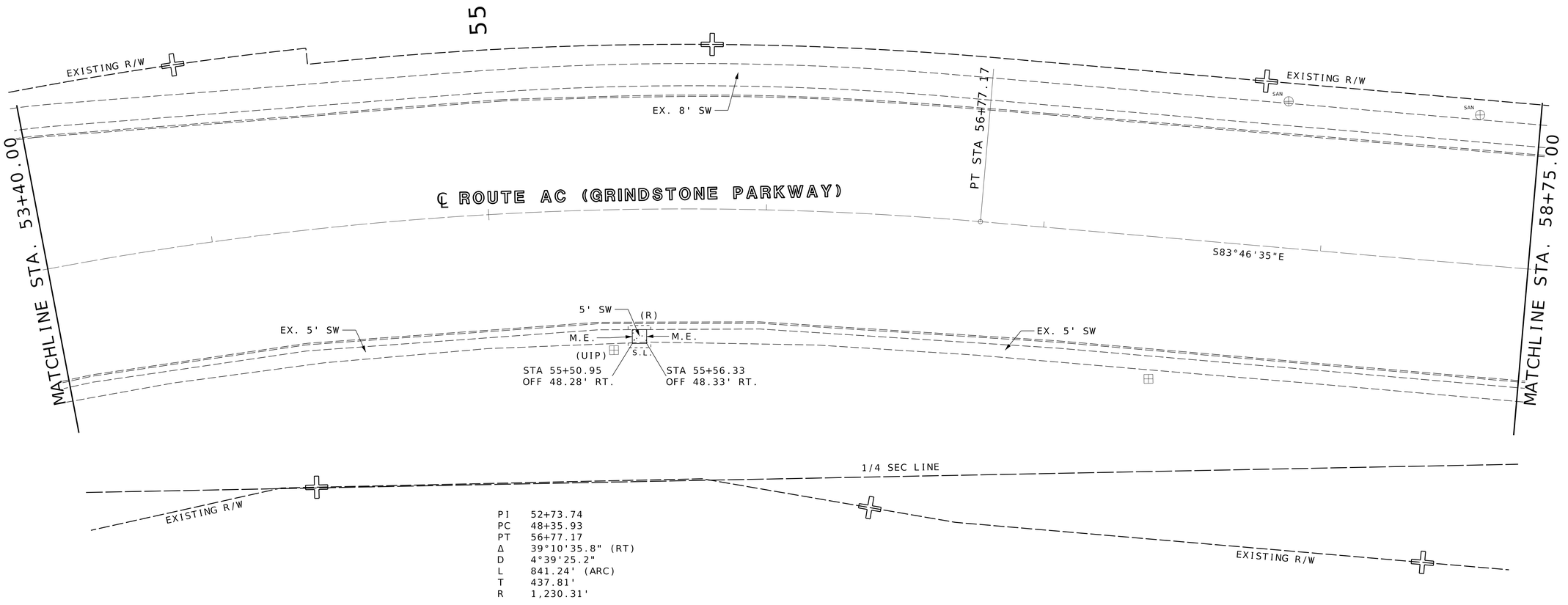
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MO Engineering Corp. # 2004005918

PLAN SHEETS
SHEET 12 OF 25

SE 1/4 NW 1/4
SECTION 30 T48N R12W

OWNER: THF GRINDSTONE PLAZA DEVELOPMENT LLC

SCALE
0 20 40 60



PI 52+73.74
PC 48+35.93
PT 56+77.17
Δ 39°10'35.8" (RT)
D 4°39'25.2"
L 841.24' (ARC)
T 437.81'
R 1,230.31'

OWNER: THE CROSSINGS-EPC OF COLUMBIA

NE 1/4 SW 1/4
SECTION 30 T48N R12W

4" SIDEWALK (SW)
CURB RAMP
TRUNCATED DOMES
PAVED APPROACH

S - SIDEWALK
R - RAMP
T - TRANSITION
L - LANDING

DND - DO NOT DISTURB
UIP - USE IN PLACE
ATG - ADJUST TO GRADE
S.L. - SLOPE LIMIT
M.E. - MATCH EXISTING

1/5/2026
STATE OF MISSOURI
BENJAMIN A. ROSS
NUMBER E-30054
REGISTERED PROFESSIONAL ENGINEER
Benjamin A. Ross

BENJAMIN A. ROSS
REGISTERED PROFESSIONAL ENGINEER E-30054

DATE PREPARED
1/5/2026

ROUTE	STATE
AC	MO
DISTRICT	SHEET NO.
CD	16

COUNTY
BOONE

JOB NO.
JCD0123

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DATE	DESCRIPTION

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

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MO Land Surveying Corp. # 2004005472
MO Engineering Corp. # 2004005918

PLAN SHEETS
SHEET 13 OF 25

SE 1/4 NW 1/4
SECTION 30 T48N R12W

OWNER: THF GRINDSTONE PLAZA DEVELOPMENT LLC

SCALE
0 20 40 60

PI 63+27.12
PC 61+28.73
PT 65+25.27
Δ 4°56'47.4" (LT)
D 1°14'50.7"
L 396.54' (ARC)
T 198.39'
R 4,593.16'

EX. 5' SW

M.E.

STA 61+95.47
OFF 103.99' LT.

STA 61+90.46
OFF 103.01' LT.

S.L.

5' SW

EXISTING R/W

60

STA 62+00.73
OFF 52.22' LT.

STA 61+76.81
OFF 52.21' LT.

(R)

STA 62+05.89
OFF 52.22' LT.

STA 62+34.23
OFF 52.24' LT.

(UIP)

STA 63+31.81
OFF 52.30' LT.

EX. 8' SW

EXISTING R/W

SAN

EX. 8' SW

TRIP HAZARD
(FILL JOINT)

EX. 8' SW

TRIP HAZARD
(FILL JOINT)

TRIP HAZARD
(FILL JOINT)

MATCHLINE STA. 58+75.00

PC STA 61+28.73

MATCHLINE STA. 64+10.00

S83°46'35"E

℄ ROUTE AC (GRINDSTONE PARKWAY)

ENTRANCE
STA. 63+18.37

90°0'0"

EX. 5' SW

TRIP HAZARD
(FILL JOINT)

EX. 5' SW

TRIP HAZARD
(FILL JOINT)

1/4 SEC LINE

STA 60+47.00
OFF 47.82' RT.

STA 61+41.81
OFF 49.41' RT.

EX. 5' SW

5' SW

M.E.

(R)

S.L.

STA 62+78.83
OFF 58.68' RT.

STA 62+79.84
OFF 58.69' RT.

STA 62+83.31
OFF 62.12' RT.

STA 62+90.29
OFF 62.54' RT.

STA 62+99.14
OFF 62.46' RT.

(UIP)

EXISTING R/W

EXISTING R/W

OWNER: THE CROSSINGS-EPC OF COLUMBIA

OWNER: HAINEN INVESTMENTS LLC

NE 1/4 SW 1/4
SECTION 30 T48N R12W

4" SIDEWALK (SW)	S - SIDEWALK	DND - DO NOT DISTURB
CURB RAMP	R - RAMP	UIP - USE IN PLACE
TRUNCATED DOMES	T - TRANSITION	ATG - ADJUST TO GRADE
PAVED APPROACH	L - LANDING	S.L. - SLOPE LIMIT
		M.E. - MATCH EXISTING

1/5/2026

STATE OF MISSOURI
BENJAMIN A. ROSS
NUMBER E-30054
REGISTERED PROFESSIONAL ENGINEER

BENJAMIN A. ROSS
REGISTERED PROFESSIONAL ENGINEER E-30054

DATE PREPARED
1/5/2026

ROUTE	STATE
AC	MO
DISTRICT	SHEET NO.
CD	17

COUNTY
BOONE

JOB NO.
JCD0123

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL
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MO Land Surveying Corp. # 2004004672
MO Engineering Corp. # 2004005918

PLAN SHEETS
SHEET 14 OF 25

PI 63+27.12
PC 61+28.73
PT 65+25.27
Δ 4°56'47.4" (LT)
D 1°14'50.7"
L 396.54' (ARC)
T 198.39'
R 4,593.16'

OWNER: THF GRINDSTONE PLAZA DEVELOPMENT LLC

SE 1/4 NW 1/4
SECTION 30 T48N R12W

EX. 5' SW

M.E.

STA 65+15.54
OFF 138.39' LT.

S.L.

℄ ROCK QUARRY ROAD

UE

(UIP)

STA 65+40.31
OFF 86.36' LT.

SW

EXISTING R/W

65

(R)

STA 64+77.15
OFF 52.23' LT.

S.L.

M.E.

EX. 8' SW

MATCHLINE STA. 64+10.00

PT STA 65+25.27

106°13'20"

ROUTE AC (GRINDSTONE PARKWAY) STA. 66+57.75
ROCK QUARRY ROAD STA. 19+50.19

1/4 SEC LINE

S88°43'23"E

SW 1/4 NE 1/4
SECTION 30 T48N R12W

1/4 SEC LINE

OWNER: COLUMBIA CHINESE CHRISTIAN CHURCH

COLUMBIA CHINESE CHRISTIAN CHURCH

PI 72+60.38
PC 68+65.11
PT 76+55.23
Δ 4°31'21.4" (LT)
D 0°34'20.6"
L 790.12' (ARC)
T 395.27'
R 10,009.82'

SCALE
0 20 40 60

(UIP)
SIGN

STA 66+93.12
OFF 72.92' LT.

STA 67+04.45
OFF 65.84' LT.

EXISTING R/W

STA 67+82.36
OFF 50.66' LT.

5' SW

M.E.

EX. 8' SW

PC STA 68+65.11

℄ ROUTE AC (GRINDSTONE PARKWAY)

MATCHLINE STA. 69+45.00

1/4 SEC LINE

20

5' SW

STA 67+40.75
OFF 65.09' RT.

STA 67+32.03
OFF 74.94' RT.

EXISTING R/W

OWNER: ALBERT ERICH D

OWNER: GREEN IMARCIA

OWNER: HAINEN INVESTMENTS LLC

PI 19+95.70
PC 17+36.11
PT 22+45.38
Δ 27°21'56.0" (RT)
D 5°22'24.7"
L 509.27' (ARC)
T 259.59'
R 1,066.26'

OWNER: ALBERT ERICH D

NE 1/4 SW 1/4
SECTION 30 T48N R12W

NW 1/4 SE 1/4
SECTION 30 T48N R12W

4" SIDEWALK (SW)
CURB RAMP
TRUNCATED DOMES
PAVED APPROACH

S - SIDEWALK
R - RAMP
T - TRANSITION
L - LANDING

DND - DO NOT DISTURB
UIP - USE IN PLACE
ATG - ADJUST TO GRADE
S.L. - SLOPE LIMIT
M.E. - MATCH EXISTING

1/5/2026

STATE OF MISSOURI
BENJAMIN A. ROSS
NUMBER E-30054
REGISTERED PROFESSIONAL ENGINEER

BENJAMIN A. ROSS
REGISTERED PROFESSIONAL ENGINEER E-30054

DATE PREPARED
1/5/2026

ROUTE	STATE
AC	MO

DISTRICT	SHEET NO.
CD	18

COUNTY
BOONE

JOB NO.
JCD0123

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL
JEFFERSON CITY, MO 65102
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MO Land Surveying Corp. # 2004005672
MO Engineering Corp. # 2004005918

PLAN SHEETS
SHEET 15 OF 25

SW 1/4 NE 1/4
SECTION 30 T48N R12W

OWNER: OWNER: COLUMBIA CHINESE CHRISTIAN CHURCH

OWNER: CRAWFORD VIRGINIA W REVOCABLE

OWNER: MID-MISSOURI DISTRIBUTORS INC

SCALE
0 20 40 60

CONSTRUCT ENTRANCE
71+15.93 LT
20'W x 10'D COMMERCIAL
GRADE = 1.0%
CONCRETE PAVED APPROACH

PI	72+60.38
PC	68+65.11
PT	76+55.23
Δ	4°31'21.4" (LT)
D	0°34'20.6"
L	790.12' (ARC)
T	395.27'
R	10,009.82'

EXISTING R/W

STA 70+27.52
OFF 49.34' LT.

STA 71+05.64
OFF 49.47' LT.
(UIP)

STA 71+25.51
OFF 49.41' LT.

S.L. (R) S.L. (R) S.L.

M.E.

EX. 8' SW

SW

5' SW

5' SW

MATCHLINE STA. 69+45.00

MATCHLINE STA. 74+80.00

ENTRANCE
STA. 70+96.28

90°0'0"

ENTRANCE
STA. 71+15.93

℄ ROUTE AC (GRINDSTONE PARKWAY)

1/4 SEC LINE

(R) 5' SW

5' SW

5' SW

S.L. S.L. (R) S.L. (R) S.L.

EXISTING R/W

STA 70+84.11
OFF 48.96' RT.

STA 71+09.94
OFF 48.98' RT.

EXISTING R/W

OWNER: GREEN MARCIA

OWNER: MODIRI FUAD

CONSTRUCT ENTRANCE
70+96.28 RT
25'W x 10'D COMMERCIAL
GRADE = 1.0%
CONCRETE PAVED APPROACH

OWNER: GREEN MARCIA

OWNER: CITY OF COLUMBIA

4" SIDEWALK (SW)
CURB RAMP
TRUNCATED DOMES
PAVED APPROACH

S - SIDEWALK
R - RAMP
T - TRANSITION
L - LANDING

DND - DO NOT DISTURB
UIP - USE IN PLACE
ATG - ADJUST TO GRADE
S.L. - SLOPE LIMIT
M.E. - MATCH EXISTING

NW 1/4 SE 1/4
SECTION 30 T48N R12W

1/5/2026
STATE OF MISSOURI
BENJAMIN A. ROSS
NUMBER E-30054
REGISTERED PROFESSIONAL ENGINEER
Benjamin A. Ross

BENJAMIN A. ROSS
REGISTERED PROFESSIONAL ENGINEER E-30054

DATE PREPARED
1/5/2026

ROUTE	STATE
AC	MO
DISTRICT	SHEET NO.
CD	19

COUNTY
BOONE

JOB NO.
JCD0123

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)

Engineering Surveys & Services
DELIVERING YOUR VISION™
1111 Fay Street, Columbia, MO 65201
573.442.4478 www.ess-mo.com
MO Land Surveying Corp. # 2004004672
MO Engineering Corp. # 2004005916

PLAN SHEETS
SHEET 16 OF 25

SW 1/4 NE 1/4
SECTION 30 T48N R12W

PI 72+60.38
PC 68+65.11
PT 76+55.23
Δ 4°31'21.4" (LT)
D 0°34'20.6"
L 790.12' (ARC)
T 395.27'
R 10,009.82'

OWNER: MID-MISSOURI DISTRIBUTORS INC

SCALE
0 20 40 60

CONSTRUCT ENTRANCE
75+23.22 LT
48'W x 10'D COMMERCIAL
CONCRETE PAVED APPROACH

STA 74+78.88
OFF 49.26' LT.

EXISTING R/W

EXISTING R/W

STA 75+47.79
OFF 49.34' LT.

STA 77+92.30
OFF 48.95' LT.

M.E.

EX. 5' SW

5' SW

STA 74+99.60
OFF 49.33' LT.

PRC STA 76+55.23

℄ ROUTE AC (GRINDSTONE PARKWAY)

MATCHLINE STA. 74+80.00

MATCHLINE STA. 80+15.00

1/4 1/4 SEC LINE

ENTRANCE
STA. 75+23.22

ENTRANCE
STA. 75+16.58

90°0'0"

90°0'0"

1/4 SEC LINE

5' SW

5' SW

5' SW

M.E.

STA 74+98.13
OFF 49.23' RT.

STA 75+42.88
OFF 49.40' RT.

STA 75+33.95
OFF 49.35' RT.

STA 74+88.95
OFF 49.23' RT.

STA 79+82.37
OFF 49.04' RT.

EXISTING R/W

EXISTING R/W

CONSTRUCT ENTRANCE
75+16.58 RT
34'W x 12'D COMMERCIAL
GRADE = 1.04%
CONCRETE PAVED APPROACH

OWNER: CITY OF COLUMBIA

PI 80+50.50
PC 76+55.23
PT 84+45.36
Δ 4°31'21.4" (RT)
D 0°34'20.6"
L 790.13' (ARC)
T 395.27'
R 10,009.95'

NW 1/4 SE 1/4
SECTION 30 T48N R12W

4" SIDEWALK (SW)
CURB RAMP
TRUNCATED DOMES
PAVED APPROACH

S - SIDEWALK
R - RAMP
T - TRANSITION
L - LANDING

DND - DO NOT DISTURB
UIP - USE IN PLACE
ATG - ADJUST TO GRADE
S.L. - SLOPE LIMIT
M.E. - MATCH EXISTING

1/5/2026
STATE OF MISSOURI
BENJAMIN A. ROSS
NUMBER E-30054
REGISTERED PROFESSIONAL ENGINEER
Benjamin A. Ross

BENJAMIN A. ROSS
REGISTERED PROFESSIONAL ENGINEER E-30054

DATE PREPARED
1/5/2026

ROUTE	STATE
AC	MO
DISTRICT	SHEET NO.
CD	20

COUNTY
BOONE

JOB NO.
JCD0123

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION	DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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

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573-445-9853 www.essmo.com
MO Land Surveying Corp. # 2004004672
MO Engineering Corp. # 2004005918

PLAN SHEETS
SHEET 17 OF 25

4" SIDEWALK (SW) | S - SIDEWALK | DND - DO NOT DISTURB
CURB RAMP | R - RAMP | UIP - USE IN PLACE
TRUNCATED DOMES | T - TRANSITION | ATG - ADJUST TO GRADE
PAVED APPROACH | L - LANDING | S.L. - SLOPE LIMIT
M.E. - MATCH EXISTING

SE 1/4 NE 1/4
SECTION 30 T48N R12W

SCALE
0 20 40 60

OWNER: GRINDSTONE PARKWAY LLC

OWNER: HYATT WILL

OWNER: SOLID ROCK QUARRY LLC

FOREST DRIVE

CONSTRUCT ENTRANCE
80+80.38 LT
20'W x 9'D COMMERCIAL
GRADE = 1.6%
CONCRETE PAVED APPROACH

CONSTRUCT ENTRANCE
84+72.21 LT
19'W x 10'D COMMERCIAL
GRADE = 1.3%
CONCRETE PAVED APPROACH

STA 80+69.74
OFF 49.11' LT.

STA 80+45.47
OFF 49.20' LT.

STA 80+89.44
OFF 49.08' LT.

STA 82+59.80
OFF 48.94' LT.

STA 82+79.14
OFF 48.83' LT.

STA 84+62.29
OFF 49.06' LT.

STA 85+45.00
OFF 49.29' LT.

STA 84+81.70
OFF 49.11' LT.

STA 85+04.45
OFF 49.17' LT.

EXISTING R/W

EX. 5' SW

5' SW

M.E.

S.L.

(R)

(UIP)

SIGN

1.01%

MATCHLINE STA. 80+15.00
1/4 SEC LINE

MATCHLINE STA. 85+50.00

PT STA 84+45.36

FOREST DRIVE
STA. 82+71.07

℄ ROUTE AC (GRINDSTONE PARKWAY)

S88°43'23"E

90°0'0"

ENTRANCE
STA. 80+80.38

CHURCHILL DRIVE
STA. 82+63.02

ENTRANCE
STA. 84+72.21

1.6%

10.3%

STA 81+40.36
OFF 48.78' RT.

STA 82+36.27
OFF 49.51' RT.

STA 82+87.77
OFF 49.51' RT.

STA 82+78.16
OFF 49.53' RT.

STA 82+45.89
OFF 49.53' RT.

STA 83+78.66
OFF 49.05' RT.

STA 84+36.93
OFF 48.65'
END OF HANDRAIL

REMOVE & REPLACE
HANDRAIL

1/4 SEC LINE

PI 80+50.50
PC 76+55.23
PT 84+45.36
Δ 4°31'21.4" (RT)
D 0°34'20.6"
L 790.13' (ARC)
T 395.27'
R 10,009.95'

OWNER: MORETON PROPERTY LLC

OWNER: J S GERAU PROPERTIES LLC

OWNER: STEPHENS ROBERT L
JR LIVING TRUST

EXIST. CITY R/W

CHURCHILL DRIVE

NE 1/4 SE 1/4
SECTION 30 T48N R12W

1/5/2026
STATE OF MISSOURI
BENJAMIN A. ROSS
NUMBER E-30054
REGISTERED PROFESSIONAL ENGINEER
Benjamin A. Ross

BENJAMIN A. ROSS
REGISTERED PROFESSIONAL ENGINEER E-30054

DATE PREPARED
1/5/2026

ROUTE	STATE
AC	MO
DISTRICT	SHEET NO.
CD	21

COUNTY
BOONE

JOB NO.
JCD0123

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)

Engineering Surveys & Services
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MO Engineering Corp. # 2004005918

PLAN SHEETS
SHEET 18 OF 25

SE 1/4 NE 1/4
SECTION 30 T48N R12W

OWNER: SOLID ROCK QUARRY LLC

OWNER: COPPER BEECH TOWNHOMES COMMUNITIES TWENTY LLC

SCALE
0 20 40 60

COPPER BEACH

EXISTING R/W

EXISTING R/W

STA 85+69.99
OFF 49.35' LT.

STA 85+95.01
OFF 49.41' LT.

STA 86+30.00
OFF 49.41' LT.

STA 86+80.91
OFF 49.37' LT.

STA 87+86.57
OFF 61.18' LT.

STA 87+76.92
OFF 61.10' LT.

STA 87+71.92
OFF 60.56' LT.

STA 88+27.63
OFF 61.52' LT.

STA 88+45.28
OFF 61.66' LT.

STA 90+48.00
OFF 49.12' LT.

S.L.(R) M.E. M.E. S.L.(R) M.E. M.E. S.L. (R) (R) S.L.(R) S.L. (R)

5' SW EX. 5' SW 5' SW EX. 5' SW 5' SW (UIP) SIGN 5' SW EX. 5' SW

MATCHLINE STA. 85+50.00

MATCHLINE STA. 90+85.00

℄ ROUTE AC (GRINDSTONE PARKWAY)

S88°43'2

COPPER BEACH
STA. 88+04.45

90°0'0"

90°0'0"

ENTRANCE
STA. 88+05.51

EX. 5' SW

5' SW (R) (R) (UIP) (UIP) (UIP) 5' SW

M.E.

S.L. (R) S.L. (R) S.L.

STA 87+67.26
OFF 49.03' RT.

REMOVE & REPLACE
HANDRAIL

1/4 SEC LINE

STA 87+85.27
OFF 48.53'
END OF HANDRAIL

STA 87+95.60
OFF 49.16' RT.

STA 88+15.58
OFF 49.20' RT.

STA 88+27.96
OFF 48.63'
END OF HANDRAIL

REMOVE & REPLACE
HANDRAIL

STA 89+77.19
OFF 49.36'
END OF HANDRAIL

EXISTING R/W

EXISTING R/W

CONSTRUCT ENTRANCE
88+05.51 RT
20'W x 10'D COMMERCIAL
GRADE = 1.5%
CONCRETE PAVED APPROACH

OWNER: SOUTHRIDGE HOMES ASSOCIATION OF BOONE COUNTY

OWNER: GILL ROBERTA J

OWNER: WON JUNG & MINGJIA YANG

OWNER: ELMORE ANDREW & JANELLE

NE 1/4 SE 1/4
SECTION 30 T48N R12W

4" SIDEWALK (SW)
CURB RAMP
TRUNCATED DOMES
PAVED APPROACH

S - SIDEWALK
R - RAMP
T - TRANSITION
L - LANDING

DND - DO NOT DISTURB
UIP - USE IN PLACE
ATG - ADJUST TO GRADE
S.L. - SLOPE LIMIT
M.E. - MATCH EXISTING

1/5/2026

STATE OF MISSOURI
BENJAMIN A. ROSS
NUMBER E-30054
REGISTERED PROFESSIONAL ENGINEER
Benjamin A. Ross

BENJAMIN A. ROSS
REGISTERED PROFESSIONAL ENGINEER E-30054

DATE PREPARED
1/5/2026

ROUTE	STATE
AC	MO
DISTRICT	SHEET NO.
CD	22

COUNTY
BOONE

JOB NO.
JCD0123

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL
JEFFERSON CITY, MO 65102
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MO Land Surveying Corp. # 2004004672
MO Engineering Corp. # 2004005918

PLAN SHEETS
SHEET 19 OF 25

SCALE
0 20 40 60

SE 1/4 NE 1/4
SECTION 30 T48N R12W

SW 1/4 NW 1/4
SECTION 29 T48N R12W

O2B KIDS EAST CAMPUS

OWNER: COPPER BEECH TOWNHOMES COMMUNITIES TWENTY LLC

OWNER: THE BEARFIELD 63 DEVELOPMENT LLC

PT STA 5+70.50

℄ BEARFIELD ROAD

SECTION LINE

EX. 5' SW

STA 92+94.88
OFF 131.07' LT.

STA 93+82.58
OFF 112.89' LT.

M.E.

STA 93+96.31
OFF 90.45' LT.

STA 94+10.13
OFF 73.52' LT.

STA 94+60.00
OFF 61.04' LT.

EXISTING R/W

STA 92+76.87
OFF 80.08' LT.

STA 92+63.49
OFF 65.89' LT.

STA 91+90.00
OFF 48.93' LT.

5' SW

EX. 5' SW

ROUTE AC (GRINDSTONE PARKWAY) STA. 93+39.78
BEARFIELD ROAD STA. 7+38.18

90°7'8"

℄ ROUTE AC (GRINDSTONE PARKWAY)

S88°43'23"E

MATCHLINE STA. 90+85.00

MATCHLINE STA. 96+20.00

5' SW

M.E.

1/4 SEC LINE

EX. 5' SW

STA 91+37.02
OFF 61.10' RT.

STA 92+53.43
OFF 61.72' RT.

STA 92+73.99
OFF 67.07' RT.

STA 92+90.12
OFF 77.74' RT.

STA 93+13.02
OFF 126.91' RT.

STA 93+66.80
OFF 123.45' RT.

STA 94+00.88
OFF 66.31' RT.

STA 93+86.63
OFF 79.64' RT.

S01°09'29"W

EXISTING R/W

EXIST. CITY R/W

OWNER: GL2 PROPERTIES LLC

OWNER: ELMORE ANDREW & JANELLE

OWNER: ZHENG GUOLU & YU ZHANG

OWNER: JACOBS DELTON L

OWNER: JACOBS DELTON L & JANIE H

OWNER: JACOBS DELTON L

NE 1/4 SE 1/4
SECTION 30 T48N R12W

NW 1/4 SW 1/4
SECTION 29 T48N R12W

S - SIDEWALK
R - RAMP
T - TRANSITION
L - LANDING
DND - DO NOT DISTURB
UIP - USE IN PLACE
ATG - ADJUST TO GRADE
S.L. - SLOPE LIMIT
M.E. - MATCH EXISTING

4" SIDEWALK (SW)
CURB RAMP
TRUNCATED DOMES
PAVED APPROACH

95

1/5/2026
STATE OF MISSOURI
BENJAMIN A. ROSS
NUMBER E-30054
REGISTERED PROFESSIONAL ENGINEER
Benjamin A. Ross

BENJAMIN A. ROSS
REGISTERED PROFESSIONAL ENGINEER E-30054

DATE PREPARED
1/5/2026

ROUTE	STATE
AC	MO
DISTRICT	SHEET NO.
CD	23

COUNTY
BOONE

JOB NO.
JCD0123

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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

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573-445-9853 www.ess-mo.com
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MO Engineering Corp. # 2004005918

PLAN SHEETS
SHEET 20 OF 25

O2B KIDS EAST CAMPUS

SW 1/4 NW 1/4
SECTION 29 T48N R12W

OWNER: THE BEARFIELD 63 DEVELOPMENT LLC

SCOOTER'S COFFEE

OWNER: OWNER: THE BEARFIELD 63 DEVELOPMENT LLC

SCALE
0 20 40 60

OLD HIGHWAY 63

EXISTING R/W

STA 99+48.71
OFF 60.72' LT.

STA 99+38.30
OFF 60.74' LT.

STA 99+20.15
OFF 60.32' LT.

STA 98+85.42
OFF 56.32' LT.

STA 99+19.32
OFF 53.33' LT.

STA 99+89.08
OFF 60.92' LT.

STA 100+05.54
OFF 61.11' LT.

STA 96+80.00
OFF 60.85' LT.

EX. 5' SW

M.E.

S.L.

5' SW

TRIP HAZARD
(GRIND JOINT)

UE

PC STA 97+16.44

ENTRANCE
STA. 99+26.07

OLD HIGHWAY 63
STA. 99+67.49

90°0'0"

℄ ROUTE AC (GRINDSTONE PARKWAY)

S88°43'23"E

MATCHLINE STA. 96+20.00

MATCHLINE STA. 101+55.00

CONSTRUCT PARTIAL ENTRANCE
99+26.07 RT
10'W x 9'D COMMERCIAL
GRADE = 1.8%
CONCRETE PAVED APPROACH

STA 99+06.21
OFF 49.78' RT.

STA 99+15.80
OFF 49.80' RT.

STA 99+36.43
OFF 49.27' RT.

1/4 SEC LINE

PI 99+90.20
PC 97+16.44
PT 102+63.19
Δ 7°27'32.0" (RT)
D 1°21'51.2"
L 546.75' (ARC)
T 273.76'
R 4,199.88'

OWNER: JACOBS DELTON L

OWNER: MARCH JAMES P & DEBBIE L

OWNER: BATT PROPERTIES LLC

OWNER: AMP INVESTMENTS LLC

OWNER: CITY OF COLUMBIA

NW 1/4 SW 1/4
SECTION 29 T48N R12W

4" SIDEWALK (SW)
CURB RAMP
TRUNCATED DOMES
PAVED APPROACH

S - SIDEWALK
R - RAMP
T - TRANSITION
L - LANDING

DND - DO NOT DISTURB
UIP - USE IN PLACE
ATG - ADJUST TO GRADE
S.L. - SLOPE LIMIT
M.E. - MATCH EXISTING

1/5/2026
STATE OF MISSOURI
BENJAMIN A. ROSS
NUMBER E-30054
REGISTERED PROFESSIONAL ENGINEER
Benjamin A. Ross

BENJAMIN A. ROSS
REGISTERED PROFESSIONAL ENGINEER E-30054

DATE PREPARED
1/5/2026

ROUTE	STATE
AC	MO
DISTRICT	SHEET NO.
CD	24

COUNTY
BOONE

JOB NO.
JCD0123

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)

Engineering Surveys & Services
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1113 Fay Street, Columbia, MO 65201
573.449.8483 www.essmo.com
MO Land Surveying Corp. # 2004004672
MO Engineering Corp. # 2004005916

PLAN SHEETS
SHEET 21 OF 25

4" SIDEWALK (SW)
CURB RAMP
TRUNCATED DOMES
PAVED APPROACH

S - SIDEWALK
R - RAMP
T - TRANSITION
L - LANDING

DND - DO NOT DISTURB
UIP - USE IN PLACE
ATG - ADJUST TO GRADE
S.L. - SLOPE LIMIT
M.E. - MATCH EXISTING

CLUB CAR WASH

OWNER: STORE MASTER FUNDING XIII LLC

SW 1/4 NW 1/4
SECTION 29 T48N R12W

OWNER:
BOONE COUNTY

OWNER: STRICKER WILLIAM E

SCALE
0 20 40 60

EXISTING R/W

EXISTING R/W

105

PI 105+36.95
PC 102+63.19
PT 108+10.05
Δ 6°54'53.4" (LT)
D 1°15'52.1"
L 546.86' (ARC)
T 273.76'
R 4,531.24'

S.L.
5' SW
S.L.
5' SW
S.L.

MATCHLINE STA. 101+55.00

PRC STA 102+63.19

UT
UT
(R)

℄ ROUTE AC (GRINDSTONE PARKWAY)

ROUTE AC (GRINDSTONE PARKWAY) STA. 104+65.75
PONDEROSA STREET STA. 6+56.16

START STA 6+56.16

90°0'0"

1/4 SEC LINE

S06°10'24"W

℄ PONDEROSA STREET

(UIP)
S.L.
5' SW
(R)
(UIP)
S.L.
(UIP)
(R)
(UIP)

STA 103+95.64
OFF 55.88' RT.

STA 104+17.59
OFF 59.43' RT.

SIGN
(UIP)

STA 104+81.57
OFF 53.24' RT.

STA 104+85.48
OFF 63.26' RT.

STA 105+05.17
OFF 54.06' RT.

PC STA 7+27.23

5' SW
(UIP)
EX. 5' SW
M.E.
(R)
(UIP)
S.L.
(UIP)
(UIP)
SIGN

STA 105+47.26
OFF 55.55' RT.

STA 105+27.00
OFF 59.67' RT.

STA 106+24.95
OFF 47.80' RT.

MATCHLINE STA. 106+90.00

1/4 1/4 SEC LINE

EXISTING R/W

EXISTING R/W

OWNER: CITY OF COLUMBIA

PI 99+90.20
PC 97+16.44
PT 102+63.19
Δ 7°27'32.0" (RT)
D 1°21'51.2"
L 546.75' (ARC)
T 273.76'
R 4,199.88'

NOTE:
REMOVE AND RELOCATE EXISTING STOP SIGN, POST, AND BASE AT PONDEROSA STREET.
NO DIRECT PAY.

NW 1/4 SW 1/4
SECTION 29 T48N R12W

OWNER: WALTERS RAUL J MARITAL TRUST

OWNER: CENTURYTEL OF MISSOURI LLC

PI 8+90.17
PC 7+27.23
PT 10+25.01
Δ 57°46'58.2" (LT)
D 19°24'16.3"
L 297.78' (ARC)
T 162.94'
R 295.27'

1/5/2026
STATE OF MISSOURI
BENJAMIN A. ROSS
NUMBER E-30054
REGISTERED PROFESSIONAL ENGINEER
Benjamin A. Ross

BENJAMIN A. ROSS
REGISTERED PROFESSIONAL ENGINEER E-30054

DATE PREPARED
1/5/2026

ROUTE	STATE
AC	MO
DISTRICT	SHEET NO.
CD	25

COUNTY
BOONE

JOB NO.
JCD0123

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

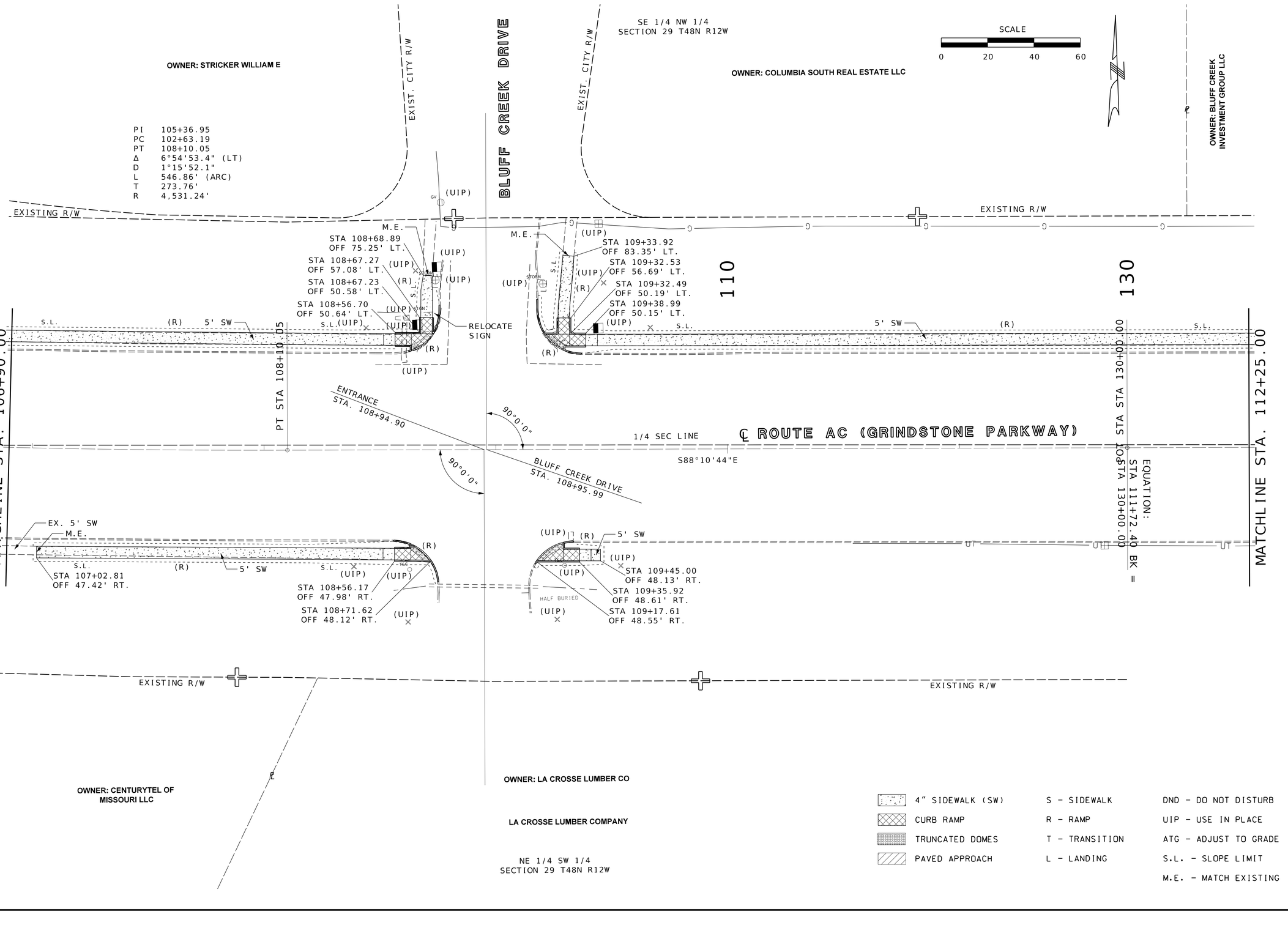
DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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

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573.445.9853 www.ess-mo.com
MO Land Surveying Corp. # 2004004572
MO Engineering Corp. # 2004005918

PLAN SHEETS
SHEET 22 OF 25



1/5/2026

STATE OF MISSOURI
BENJAMIN A. ROSS
NUMBER E-30054
REGISTERED PROFESSIONAL ENGINEER

BENJAMIN A. ROSS
REGISTERED PROFESSIONAL ENGINEER E-30054

DATE PREPARED
1/5/2026

ROUTE	STATE
AC	MO
DISTRICT	SHEET NO.
CD	26

COUNTY
BOONE

JOB NO.
JCD0123

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

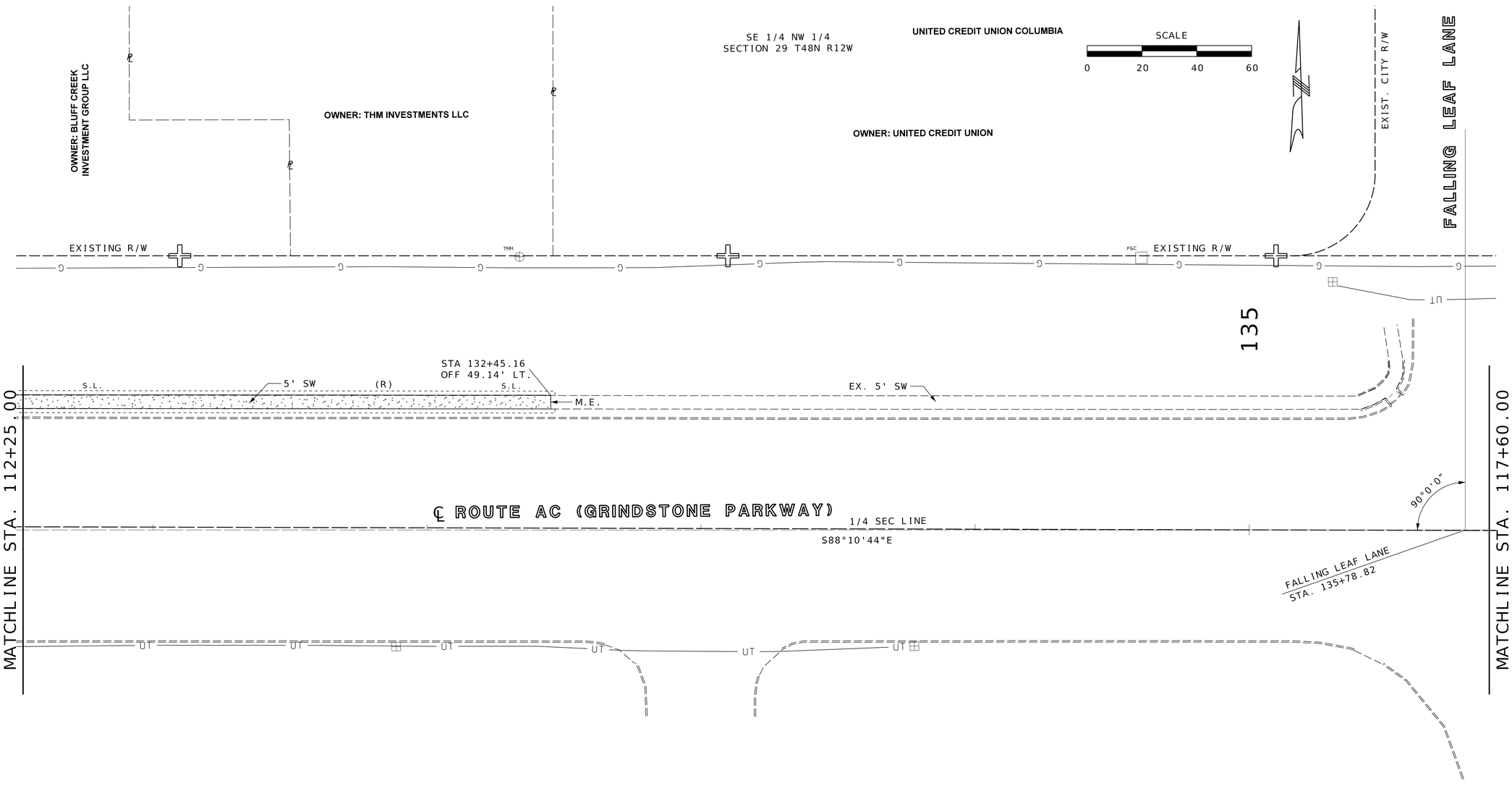
DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL
JEFFERSON CITY, MO 65102
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MO Land Surveying Corp. # 2004004472
MO Engineering Corp. # 2004005918

PLAN SHEETS
SHEET 23 OF 25



4" SIDEWALK (SW)
CURB RAMP
TRUNCATED DOMES
PAVED APPROACH

S - SIDEWALK
R - RAMP
T - TRANSITION
L - LANDING

DND - DO NOT DISTURB
UIP - USE IN PLACE
ATG - ADJUST TO GRADE
S.L. - SLOPE LIMIT
M.E. - MATCH EXISTING

NE 1/4 SW 1/4
SECTION 29 T48N R12W

1/5/2026
STATE OF MISSOURI
BENJAMIN A. ROSS
NUMBER E-30054
REGISTERED PROFESSIONAL ENGINEER
Benjamin A. Ross

BENJAMIN A. ROSS
REGISTERED PROFESSIONAL ENGINEER E-30054

DATE PREPARED
1/5/2026

ROUTE	STATE
AC	MO
DISTRICT	SHEET NO.
CD	27

COUNTY
BOONE

JOB NO.
JCD0123

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)

Engineering Surveys & Services
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573.445.9994 www.essmo.com
MO Land Surveying Corp. # 2004004672
MO Engineering Corp. # 2004005918

PLAN SHEETS
SHEET 24 OF 25

SE 1/4 NW 1/4
SECTION 29 T48N R12W

PHILLIPS 66

OWNER: WESTERN OIL INC

SW 1/4 NE 1/4
SECTION 29 T48N R12W

SCALE
0 20 40 60

EXIST. CITY R/W

1/4 SEC LINE

EXISTING R/W

EX. 5' SW

140

END PROJECT
STA. 140+91.75 ROUTE AC (GRINDSTONE PARKWAY)

℄ ROUTE AC (GRINDSTONE PARKWAY)

1/4 SEC LINE

1/4 SEC LINE

S88°10'44"E

MATCHLINE STA. 117+60.00

1/4 SEC LINE

4" SIDEWALK (SW)
CURB RAMP
TRUNCATED DOMES
PAVED APPROACH

S - SIDEWALK
R - RAMP
T - TRANSITION
L - LANDING

DND - DO NOT DISTURB
UIP - USE IN PLACE
ATG - ADJUST TO GRADE
S.L. - SLOPE LIMIT
M.E. - MATCH EXISTING

NE 1/4 SW 1/4
SECTION 29 T48N R12W

NW 1/4 SE 1/4
SECTION 29 T48N R12W

1/5/2026

STATE OF MISSOURI
BENJAMIN A. ROSS
NUMBER E-30054
REGISTERED PROFESSIONAL ENGINEER

BENJAMIN A. ROSS
REGISTERED PROFESSIONAL ENGINEER E-30054

DATE PREPARED
1/5/2026

ROUTE	STATE
AC	MO
DISTRICT	SHEET NO.
CD	28

COUNTY
BOONE

JOB NO.
JCD0123

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

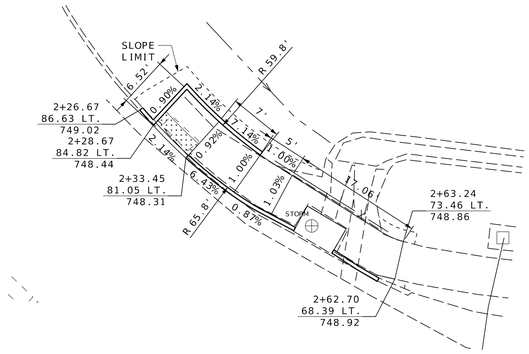
DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

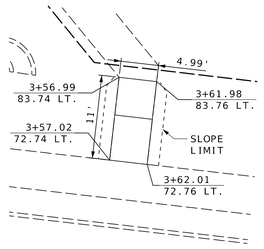
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MO Land Surveying Corp. # 2004004672
MO Engineering Corp. # 2004005918

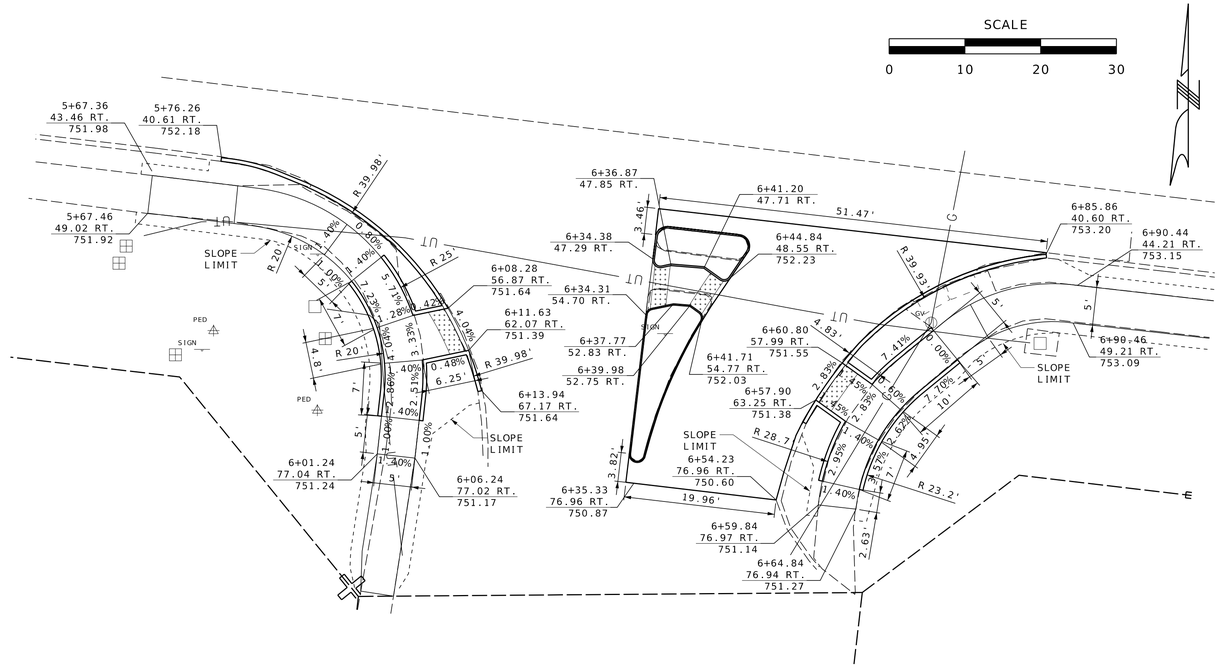
PLAN SHEETS
SHEET 25 OF 25



℄ STA. RTE. AC 2+33.24
PROPOSED RAMP & CURB

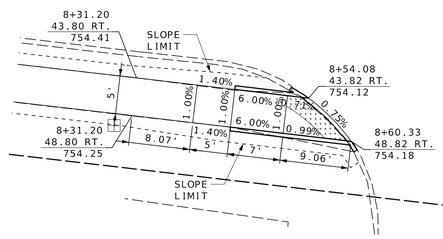


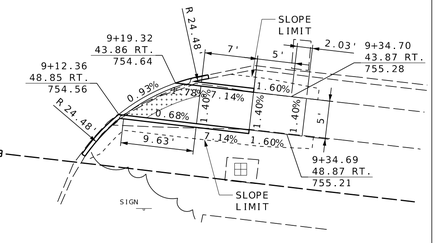
℄ STA. RTE. AC 3+59.47
PROPOSED RAMP



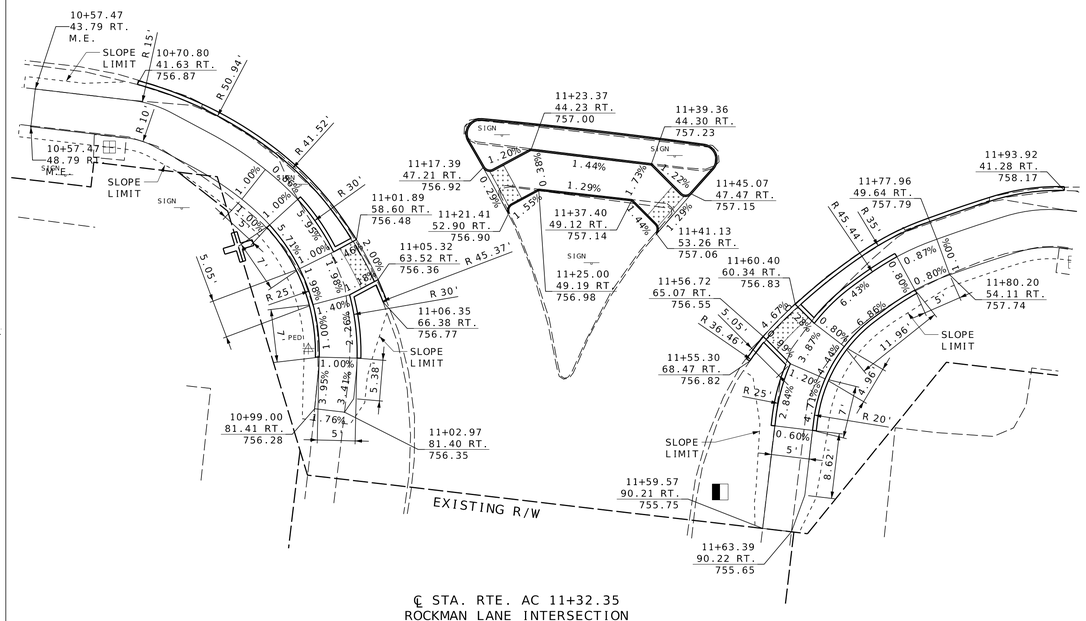
℄ STA. RTE. AC 6+33.94
SANDMAN LANE INTERSECTION

NOTE:
PAVEMENT REMOVAL SHALL BE
TO THE APPROACH CENTERLINE





℄ STA. RTE. AC 8+86.97
PROPOSED RAMP & CURB



℄ STA. RTE. AC 11+32.35
ROCKMAN LANE INTERSECTION

1/5/2026

STATE OF MISSOURI
BENJAMIN A. ROSS
NUMBER E-30054
REGISTERED PROFESSIONAL ENGINEER

BENJAMIN A. ROSS
REGISTERED PROFESSIONAL ENGINEER E-30054

DATE PREPARED
1/5/2026

ROUTE	STATE
AC	MO
DISTRICT	SHEET NO.
CD	31

COUNTY
BOONE

JOB NO.
JCD0123

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

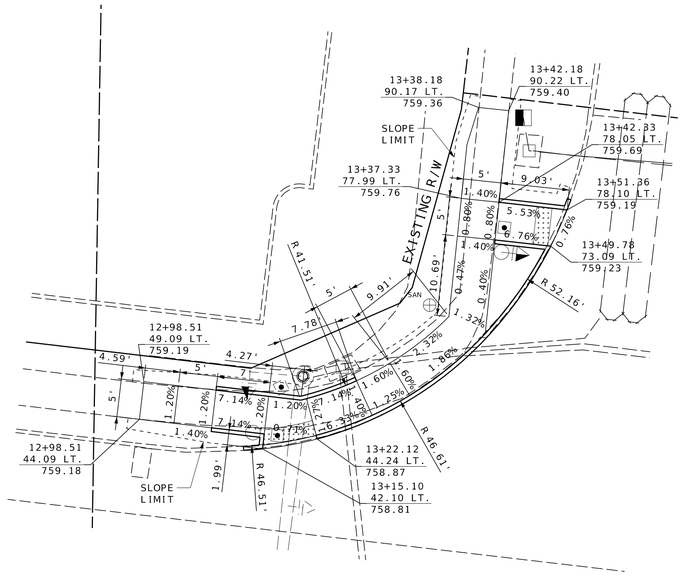
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MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

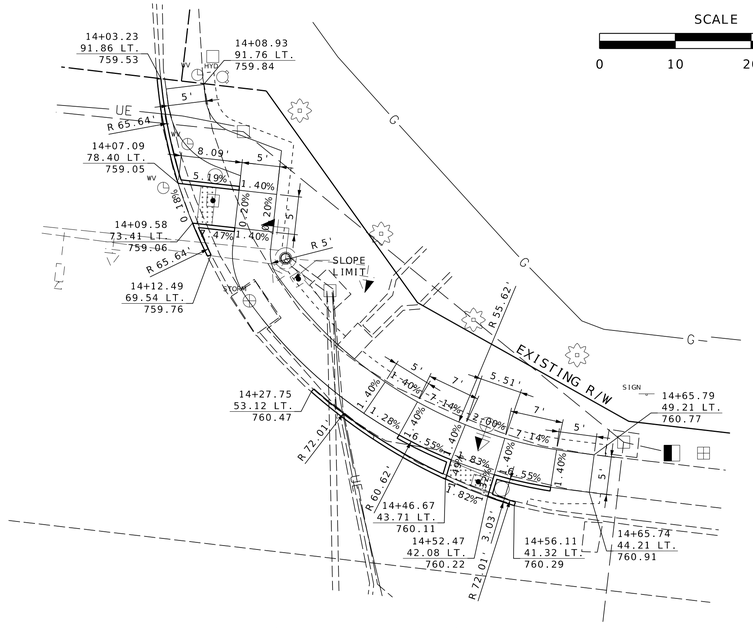
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MO Land Surveying Corp. # 2004004572
MO Engineering Corp. # 2004005918

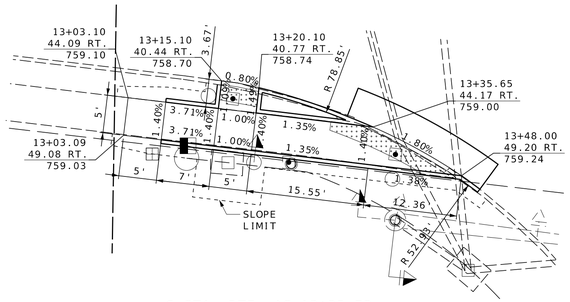
SPECIAL SHEET
SHEET 1 OF 11



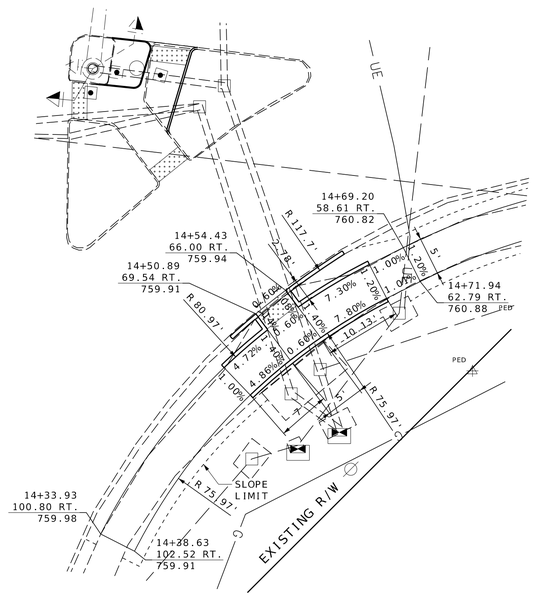
℄ STA. RTE. AC 13+33.84
NW BUTTONWOOD DRIVE INTERSECTION



℄ STA. RTE. AC 14+26.16
NE BUTTONWOOD DRIVE INTERSECTION



℄ STA. RTE. AC 13+25.72
SW BUTTONWOOD DRIVE INTERSECTION



℄ STA. RTE. AC 14+47.31
SE BUTTONWOOD DRIVE INTERSECTION

1/5/2026

STATE OF MISSOURI
BENJAMIN A. ROSS
NUMBER E-30054
REGISTERED PROFESSIONAL ENGINEER

BENJAMIN A. ROSS
REGISTERED PROFESSIONAL ENGINEER E-30054

DATE PREPARED
1/5/2026

ROUTE	STATE
AC	MO
DISTRICT	SHEET NO.
CD	32

COUNTY
BOONE

JOB NO.
JCD0123

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

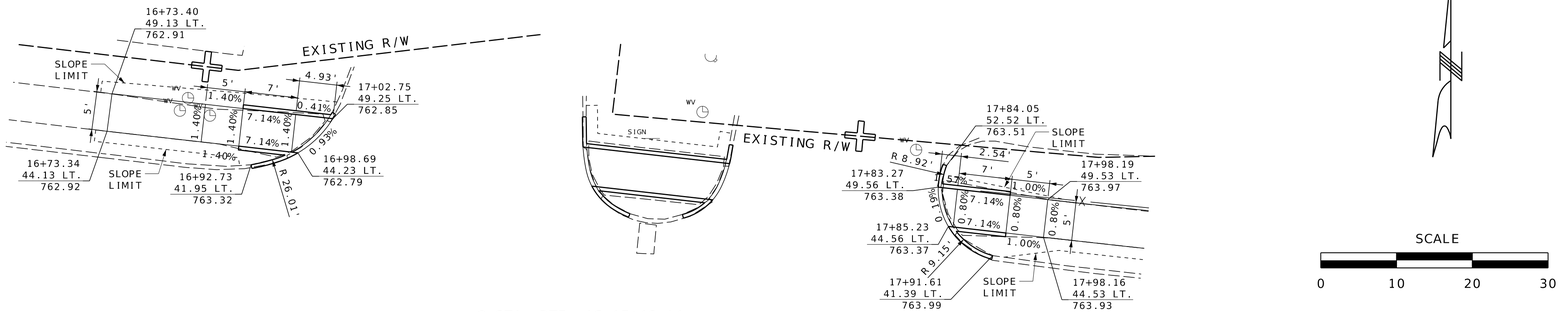
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MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

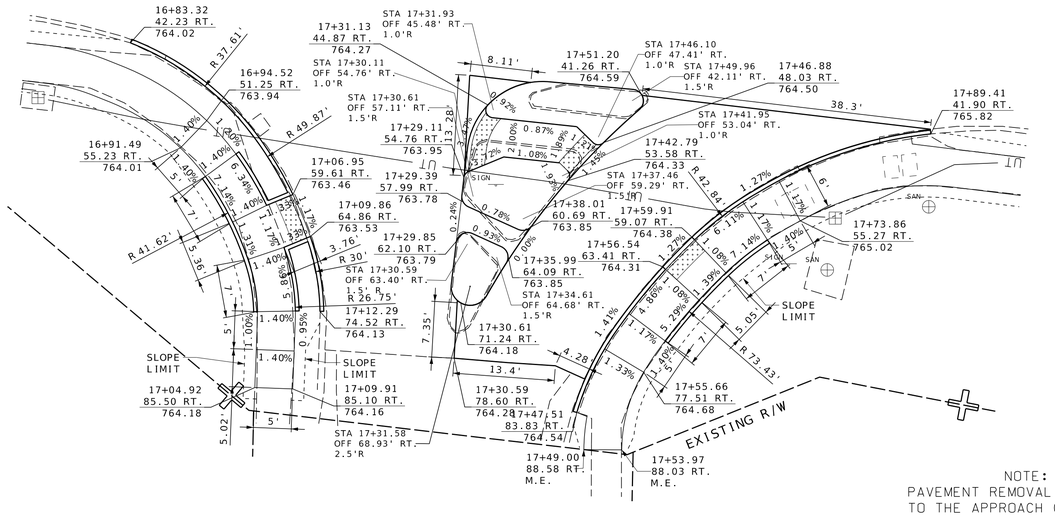
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SPECIAL SHEET
SHEET 2 OF 11



℄ STA. RTE. AC 17+46.14
PROPOSED RAMP & CURB



℄ STA. RTE. AC 17+21.13
HYDE PARK AVENUE INTERSECTION

1/5/2026

STATE OF MISSOURI
BENJAMIN A. ROSS
NUMBER E-30054
REGISTERED PROFESSIONAL ENGINEER

BENJAMIN A. ROSS
REGISTERED PROFESSIONAL ENGINEER E-30054

DATE PREPARED
1/5/2026

ROUTE	STATE
AC	MO
DISTRICT	SHEET NO.
CD	33

COUNTY
BOONE

JOB NO.
JCD0123

CONTRACT ID.

PROJECT NO.

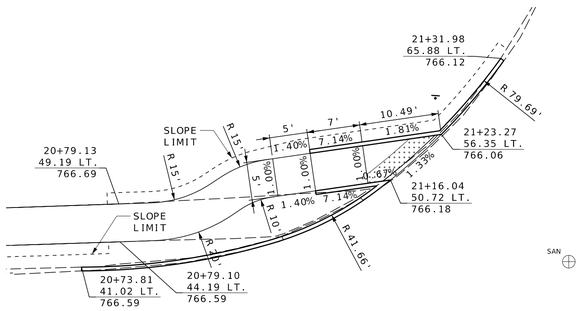
BRIDGE NO.

DATE	DESCRIPTION

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

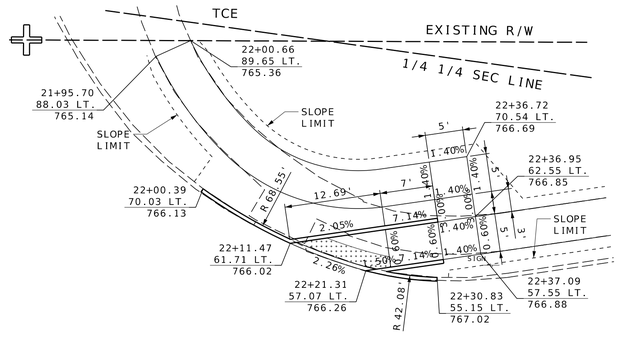
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MO Engineering Corp. # 2004005918

SPECIAL SHEET
SHEET 3 OF 11

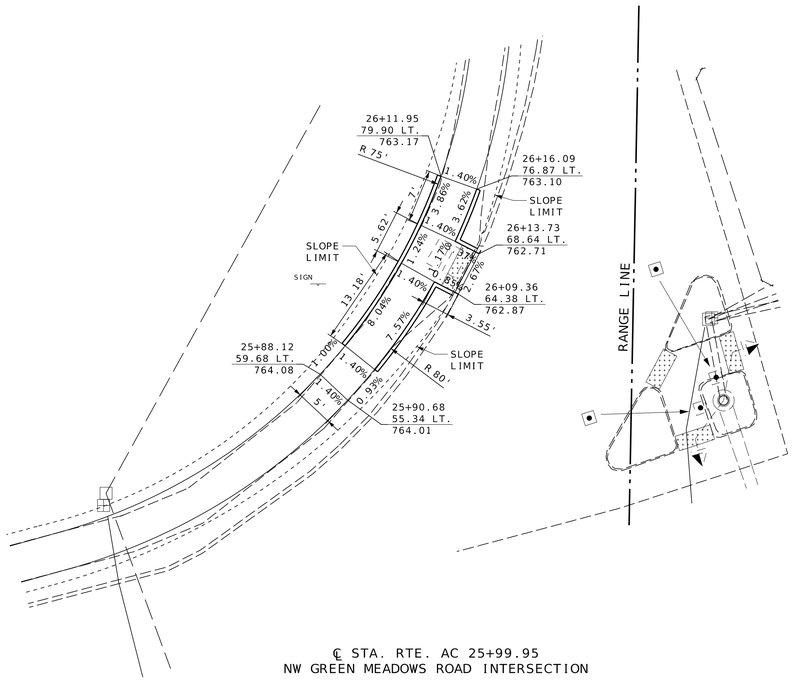


℄ STA. RTE. AC 20+98.50
PROPOSED RAMP & CURB

SCALE
0 10 20 30



℄ STA. RTE. AC 22+21.57
PROPOSED RAMP & CURB



℄ STA. RTE. AC 25+99.95
NW GREEN MEADOWS ROAD INTERSECTION

1/5/2026

STATE OF MISSOURI
BENJAMIN A. ROSS
NUMBER E-30054
REGISTERED PROFESSIONAL ENGINEER

BENJAMIN A. ROSS
REGISTERED PROFESSIONAL ENGINEER E-30054

DATE PREPARED
1/5/2026

ROUTE	STATE
AC	MO
DISTRICT	SHEET NO.
CD	34

COUNTY
BOONE

JOB NO.
JCD0123

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

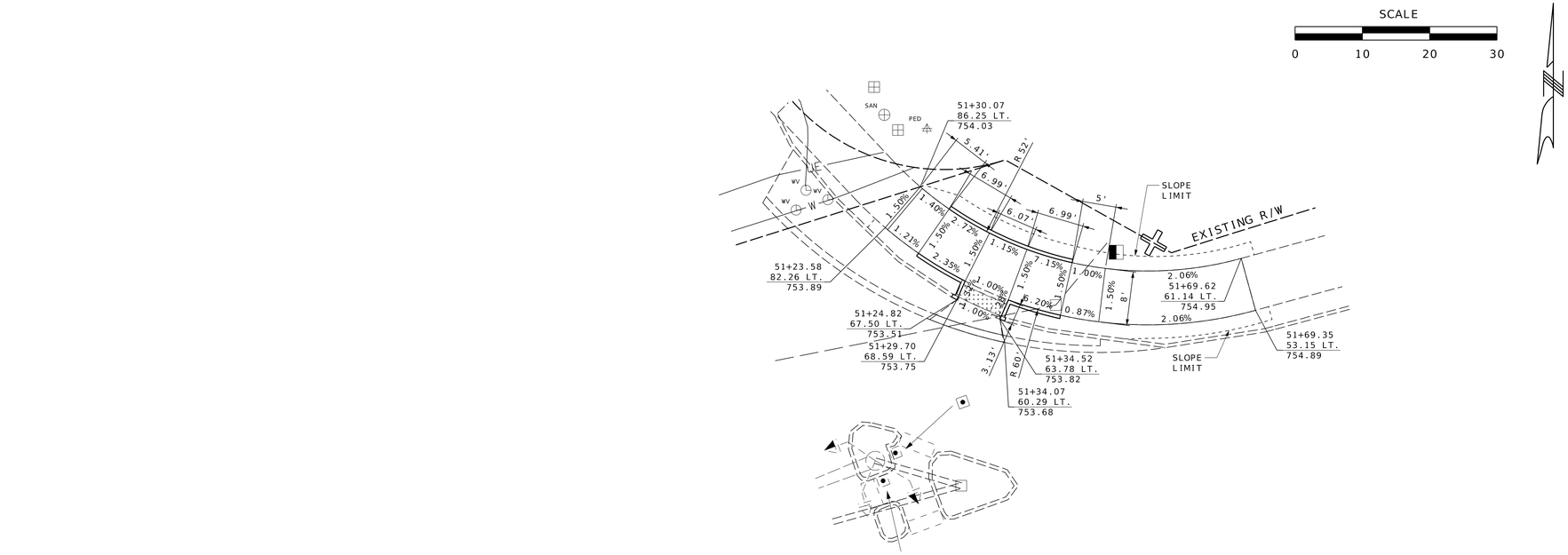
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MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

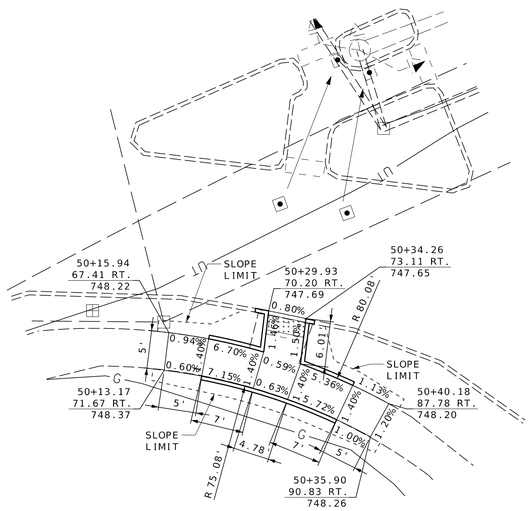
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
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MO Land Surveying Corp. # 2004004572
MO Engineering Corp. # 2004005918

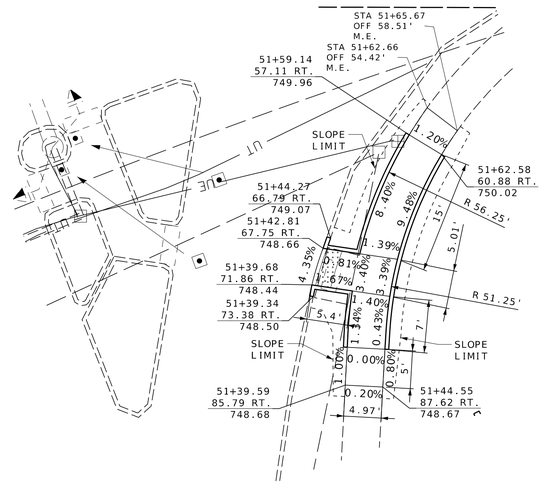
SPECIAL SHEET
SHEET 4 OF 11



℄ STA. RTE. AC 51+44.77
NE GRINDSTONE PLAZA DRIVE INTERSECTION



℄ STA. RTE. AC 50+27.41
SW GRINDSTONE PLAZA DRIVE INTERSECTION



℄ STA. RTE. AC 51+50.89
SE GRINDSTONE PLAZA DRIVE INTERSECTION

1/5/2026

STATE OF MISSOURI
BENJAMIN A. ROSS
NUMBER E-30054
REGISTERED PROFESSIONAL ENGINEER
Benjamin A. Ross

BENJAMIN A. ROSS
REGISTERED PROFESSIONAL ENGINEER E-30054

DATE PREPARED
1/5/2026

ROUTE	STATE
AC	MO
DISTRICT	SHEET NO.
CD	35

COUNTY
BOONE

JOB NO.
JCD0123

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

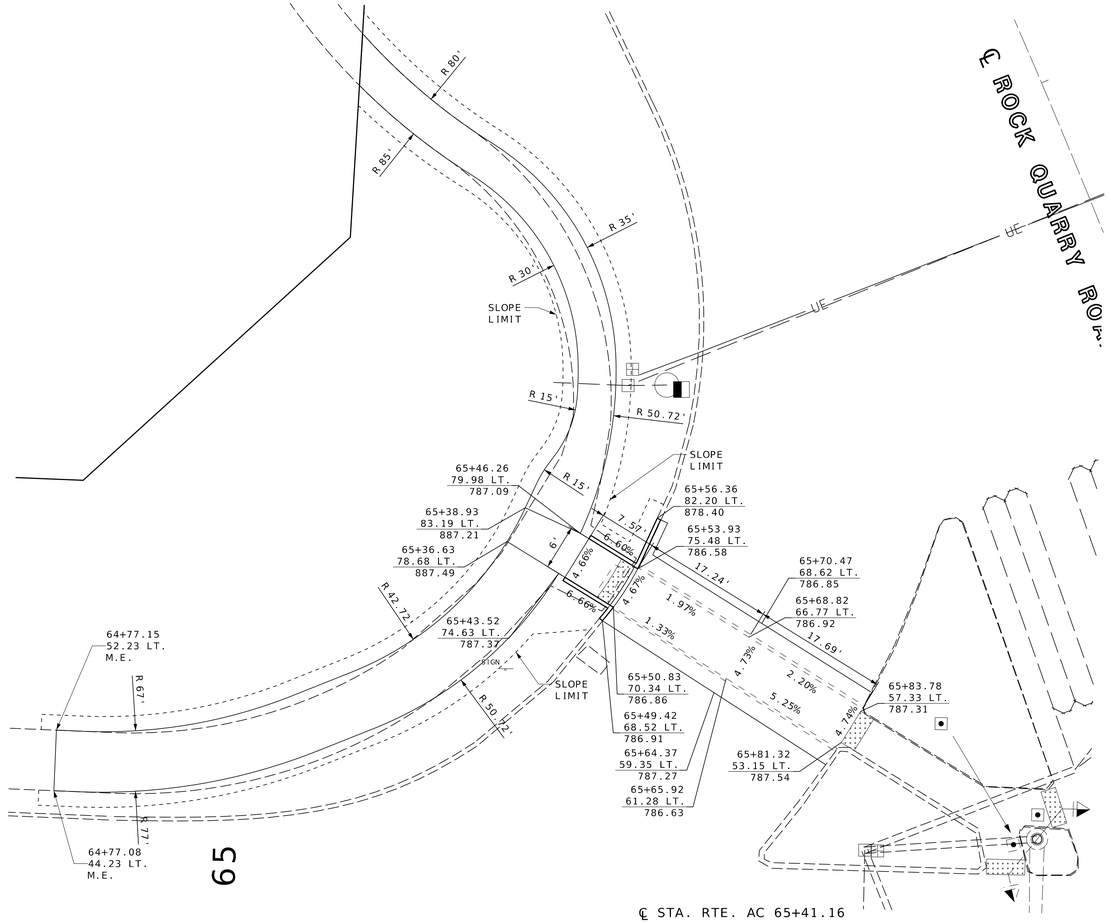
DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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

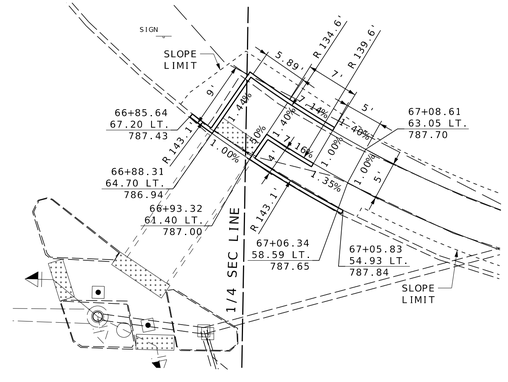
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SPECIAL SHEET
SHEET 5 OF 11

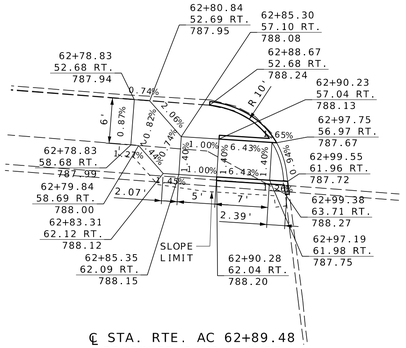


℄ STA. RTE. AC 65+41.16
NW ROCK QUARRY ROAD INTERSECTION

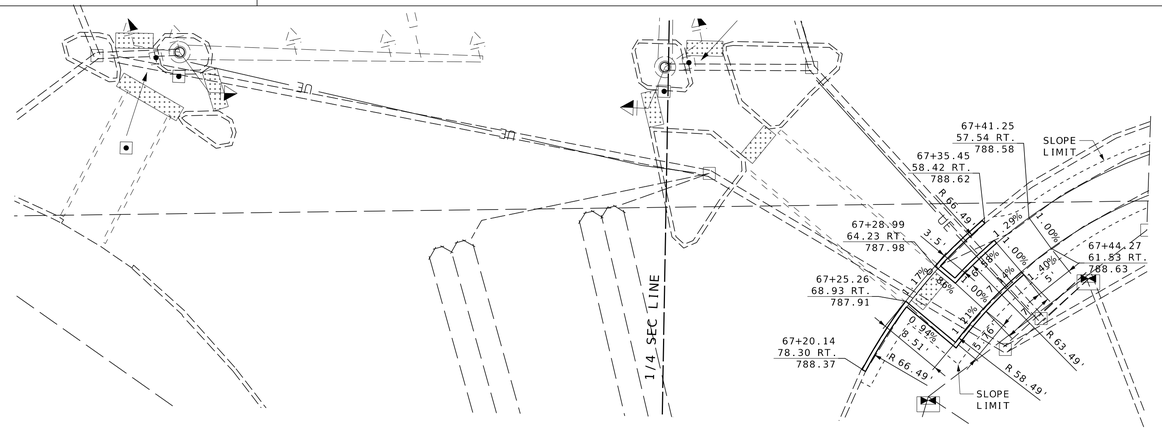
SCALE
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℄ STA. RTE. AC 67+02.47
NE ROCK QUARRY ROAD INTERSECTION



℄ STA. RTE. AC 62+89.48
PROPOSED RAMP & CURB



℄ STA. RTE. AC 66+76.16
SOUTH ROCK QUARRY ROAD INTERSECTION

1/5/2026

STATE OF MISSOURI
BENJAMIN A. ROSS
NUMBER E-30054
REGISTERED PROFESSIONAL ENGINEER
Benjamin A. Ross

BENJAMIN A. ROSS
REGISTERED PROFESSIONAL ENGINEER E-30054

DATE PREPARED
1/5/2026

ROUTE	STATE
AC	MO
DISTRICT	SHEET NO.
CD	36

COUNTY
BOONE

JOB NO.
JCD0123

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DATE	DESCRIPTION

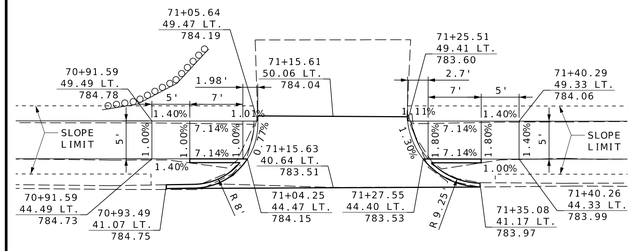
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

MoDOT

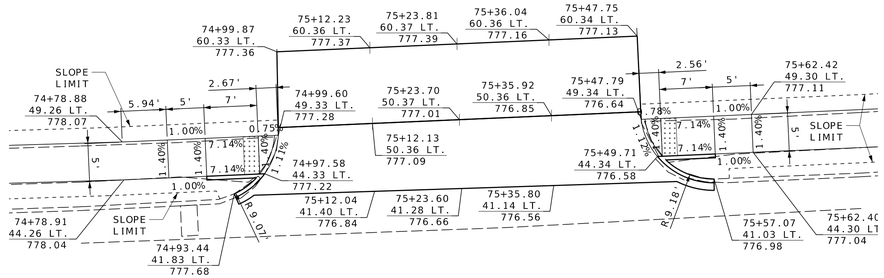
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

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573.443.3311 FAX 573.427.6678
MO Land Surveying Corp. # 2004004572
MO Engineering Corp. # 2004005918

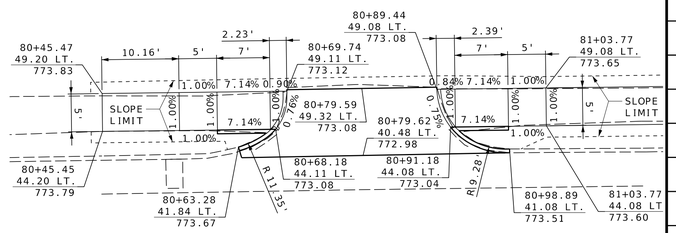
SPECIAL SHEET
SHEET 6 OF 11



℄ STA. RTE. AC 71+15.93
PROPOSED RAMP & CURB

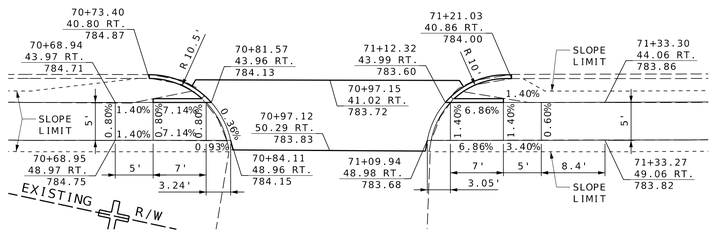


℄ STA. RTE. AC 75+23.22
PROPOSED RAMP & CURB

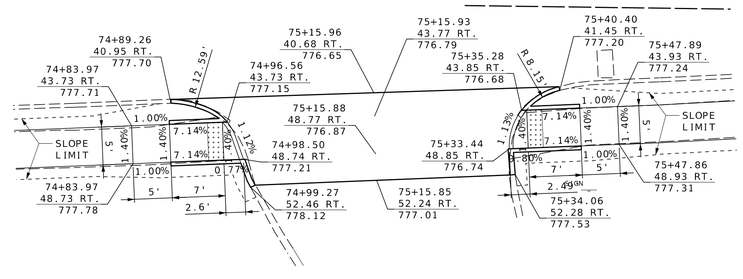


℄ STA. RTE. AC 80+80.38
PROPOSED RAMP & CURB

SCALE
0 10 20 30



℄ STA. RTE. AC 70+96.28
PROPOSED RAMP & CURB



℄ STA. RTE. AC 75+16.58
PROPOSED RAMP & CURB

1/5/2026
STATE OF MISSOURI
BENJAMIN A. ROSS
NUMBER E-30054
REGISTERED PROFESSIONAL ENGINEER
Benjamin A. Ross

BENJAMIN A. ROSS
REGISTERED PROFESSIONAL ENGINEER E-30054

DATE PREPARED
1/5/2026

ROUTE	STATE
AC	MO
DISTRICT	SHEET NO.
CD	37

COUNTY
BOONE

JOB NO.
JCD0123

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

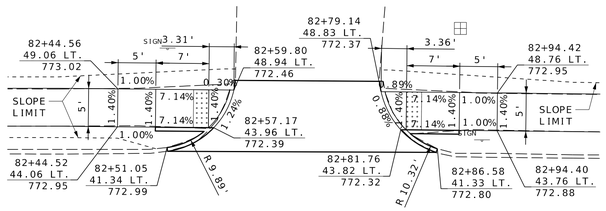
DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

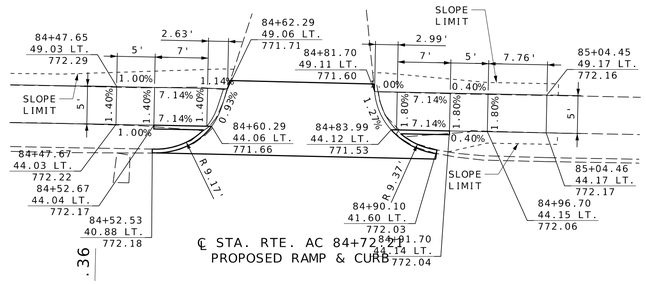
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DELIVERING YOUR VISION™
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573.443.3321 FAX 573.443.6625
MO Land Surveying Corp. # 2004004572
MO Engineering Corp. # 2004005918

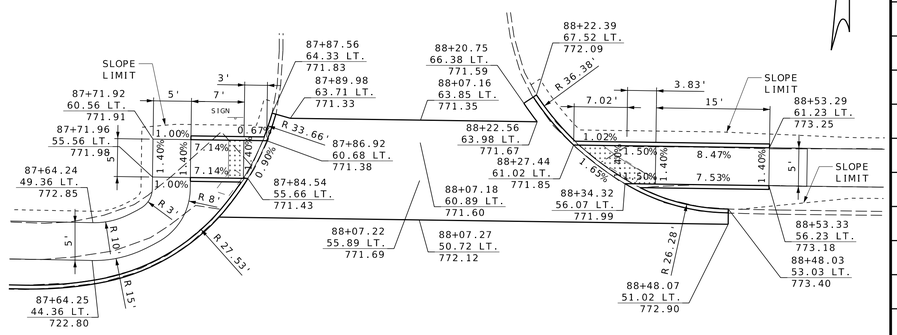
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SHEET 7 OF 11



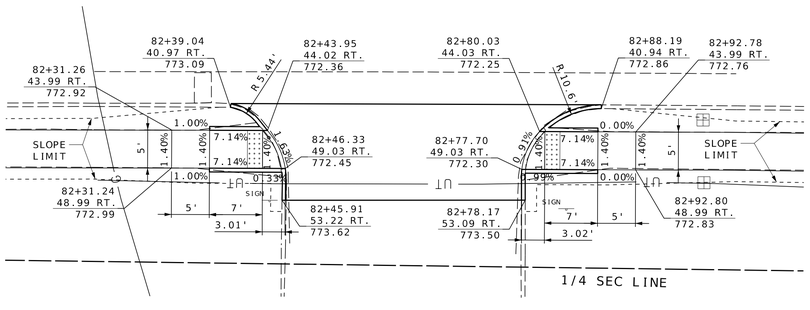
℄ STA. RTE. AC 82+71.02
FOREST DRIVE INTERSECTION



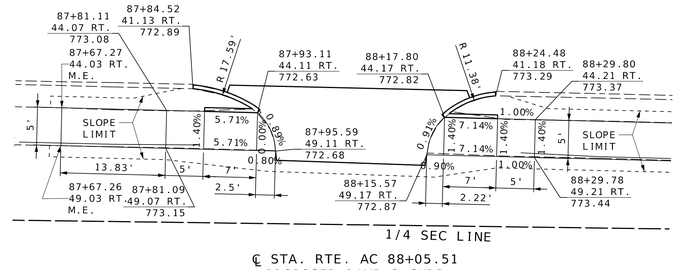
℄ STA. RTE. AC 84+72.22
PROPOSED RAMP & CURB



℄ STA. RTE. AC 88+04.45
COPPER BEACH INTERSECTION



℄ STA. RTE. AC 82+63.02
CHURCHILL DRIVE INTERSECTION



℄ STA. RTE. AC 88+05.51
PROPOSED RAMP & CURB

1/5/2026

STATE OF MISSOURI
BENJAMIN A. ROSS
NUMBER E-30054
REGISTERED PROFESSIONAL ENGINEER
Benjamin A. Ross

BENJAMIN A. ROSS
REGISTERED PROFESSIONAL ENGINEER E-30054

DATE PREPARED
1/5/2026

ROUTE	STATE
AC	MO
DISTRICT	SHEET NO.
CD	38

COUNTY
BOONE

JOB NO.
JCD0123

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

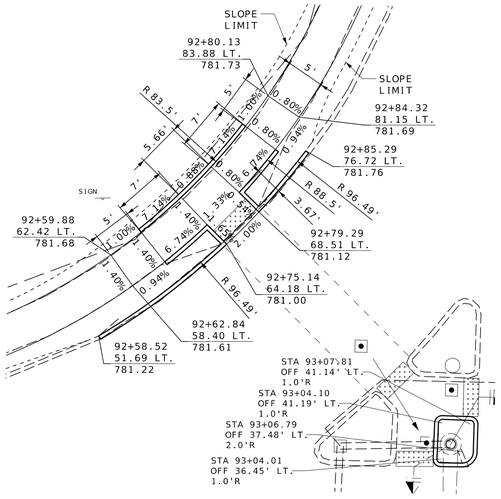
DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

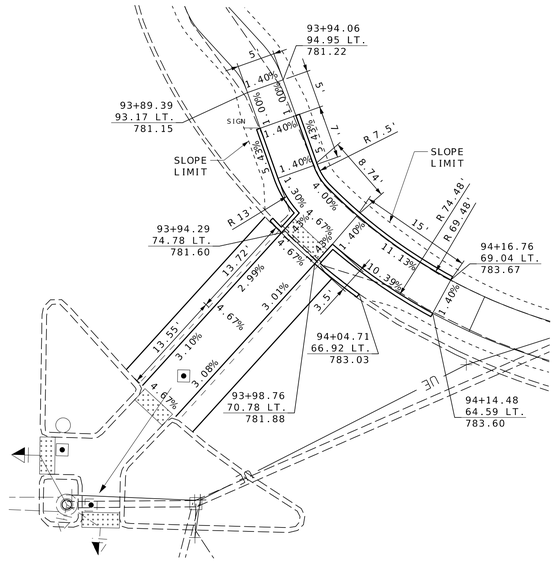
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

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DELIVERING YOUR VISION™
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573.445.9994 www.ess-mo.com
MO Land Surveying Corp. # 2004004572
MO Engineering Corp. # 2004005918

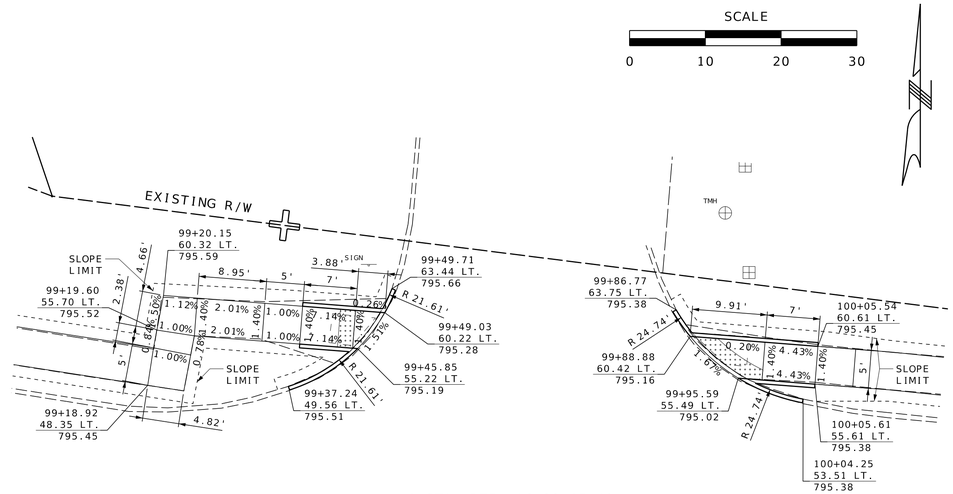
SPECIAL SHEET
SHEET 8 OF 11



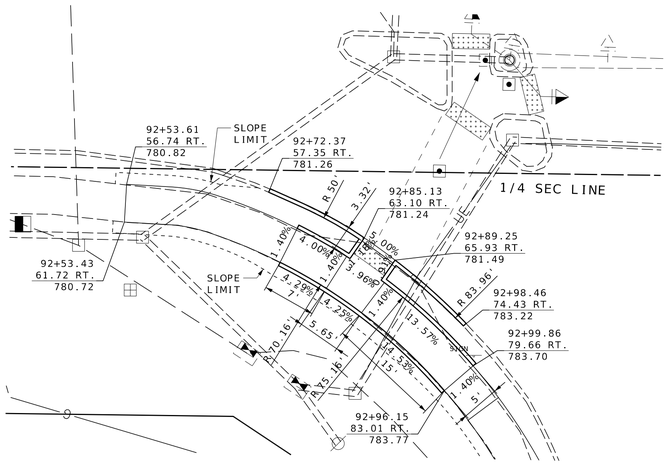
℄ STA. RTE. AC 92+73.39
NW BEARFIELD ROAD INTERSECTION



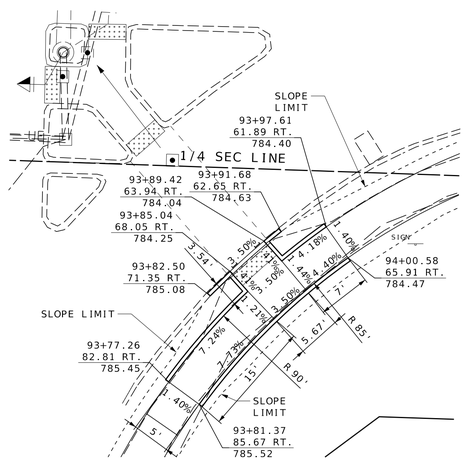
℄ STA. RTE. AC 93+99.37
NE BEARFIELD ROAD INTERSECTION



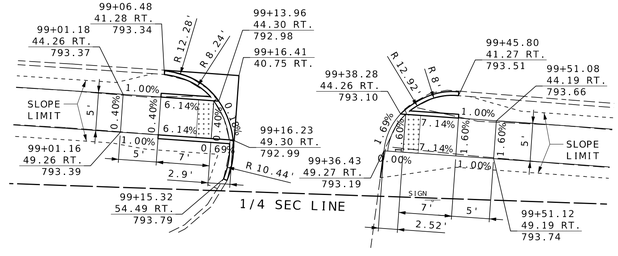
℄ STA. RTE. AC 99+67.49
OLD HIGHWAY 63 INTERSECTION



℄ STA. RTE. AC 92+87.58
SW BEARFIELD ROAD INTERSECTION



℄ STA. RTE. AC 93+85.94
SE BEARFIELD ROAD INTERSECTION



℄ STA. RTE. AC 99+26.07
PROPOSED RAMP & CURB

1/5/2026

STATE OF MISSOURI
BENJAMIN A. ROSS
NUMBER E-30054
REGISTERED PROFESSIONAL ENGINEER
Benjamin A. Ross

BENJAMIN A. ROSS
REGISTERED PROFESSIONAL ENGINEER E-30054

DATE PREPARED
1/5/2026

ROUTE	STATE
AC	MO
DISTRICT	SHEET NO.
CD	39

COUNTY
BOONE

JOB NO.
JCD0123

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DATE	DESCRIPTION

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

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MO Engineering Corp. # 2004005918

SPECIAL SHEET
SHEET 9 OF 11

℄ STA. RTE. AC 104+65.75
PONDEROSA STREET INTERSECTION

1/5/2026

STATE OF MISSOURI
BENJAMIN A. ROSS
NUMBER E-30054
REGISTERED PROFESSIONAL ENGINEER

BENJAMIN A. ROSS
REGISTERED PROFESSIONAL ENGINEER E-30054

DATE PREPARED
1/5/2026

ROUTE	STATE
AC	MO
DISTRICT	SHEET NO.
CD	40

COUNTY
BOONE

JOB NO.
JCD0123

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

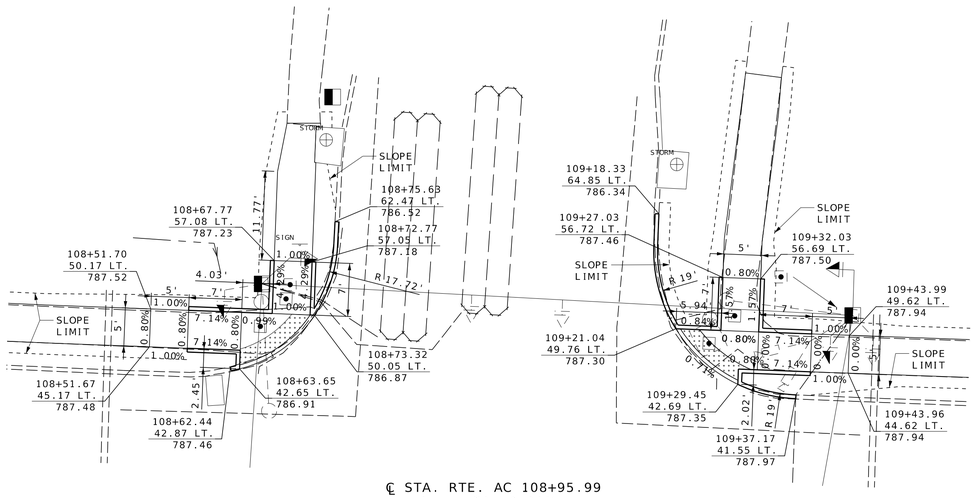
DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

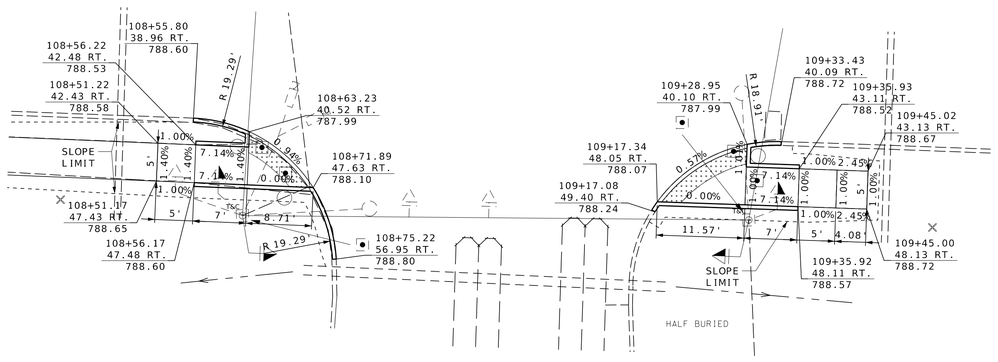
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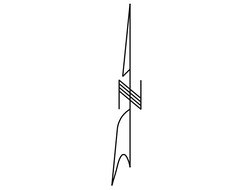
SPECIAL SHEET
SHEET 10 OF 11



℄ STA. RTE. AC 108+95.99
BLUFF CREEK DRIVE



℄ STA. RTE. AC 108+94.90
PROPOSED RAMP & CURB



1/5/2026

STATE OF MISSOURI
BENJAMIN A. ROSS
NUMBER E-30054
REGISTERED PROFESSIONAL ENGINEER

BENJAMIN A. ROSS
REGISTERED PROFESSIONAL ENGINEER E-30054

DATE PREPARED
1/5/2026

ROUTE	STATE
AC	MO
DISTRICT	SHEET NO.
CD	41

COUNTY
BOONE

JOB NO.
JCD0123

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL
JEFFERSON CITY, MO 65102
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MO Engineering Corp. # 2004005918

SPECIAL SHEET

SHEET 11 OF 11

#4 REBAR WITH CAP "CITY OF COLUMBIA"
CORNER COMMON TO SECTIONS 23, 24, 25, 26 T48N R13W
WITNESSED BY DONALD D. NICHOLSON L.S. 1755
ON OCTOBER 15, 1985. DNR DOC. # 600-36473

1/4 1/4 SEC LINE

S01°27'14"W

2+62.82
173.02'

EQUATION:
STA 204+91.87 BK =
STA 204+92.53 POT STA A 204+92.53

205

SW 1/4 SE 1/4
SECTION 25 T48N R13W

WENDY'S

SCALE
0 20 40 60

S 34°53'44" E
539.31'

OWNER: TKG ROCK BRIDGE CENTER LLC

3+53.51
85.30'

4+79.82
85.30'

SILT FENCE

SILT FENCE

EXISTING R/W

UT

UE

SIGN

SIGN

SIGN

START STA 1+79.15

BEGIN PROJECT
STA 1+79.15 ROUTE AC (NIFONG BOULEVARD)

℄ ROUTE AC (NIFONG BOULEVARD)

S83°19'11"E

84°27'16"

℄ STATE HIGHWAY 163 (PROVIDENCE ROAD)

1/4 SEC LINE

INLET PROTECTION

INLET PROTECTION

SILT FENCE

EXISTING R/W

UT

WV

3+69.03
70.00'

OWNER: COMMERCE BANK NA

2+88.52
143.45'

SW 1/4 SE 1/4
SECTION 25 T48N R13W

MATCHLINE STA. 5+25.00

NOTE:
RIGHT-OF-WAY LIMITS FOR THIS PROJECT EXTEND
FROM STATION 1+79.15 TO STATION 140+91.75

1/5/2026

STATE OF MISSOURI
BENJAMIN A. ROSS
NUMBER E-30054
REGISTERED PROFESSIONAL ENGINEER

BENJAMIN A. ROSS
REGISTERED PROFESSIONAL ENGINEER E-30054

DATE PREPARED
1/5/2026

ROUTE	STATE
AC	MO
DISTRICT	SHEET NO.
CD	42

COUNTY
BOONE

JOB NO.
JCD0123

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION	DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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

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573-445-9853 www.esseng.com
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MO Engineering Corp. # 2004005918

EROSION CONTROL PLAN
SHEET 1 OF 25

SCALE
0 20 40 60

1/4 1/4 SEC LINE
SW 1/4 SE 1/4
SECTION 25 T48N R13W

HYVEE GAS STATION

OWNER: TKG ROCK BRIDGE CENTER LLC

OWNER: TKG ROCK BRIDGE CENTER LLC

OWNER: TKG ROCK BRIDGE CENTER LLC

OWNER: TKG ROCK BRIDGE CENTER LLC

MATCHLINE STA. 5+25.00

MATCHLINE STA. 10+60.00

℄ ROUTE AC (NIFONG BOULEVARD)

S83°19'11"E

EXISTING R/W

EXISTING R/W

EXISTING R/W

EXISTING R/W

5+97.93
69.72'

6+67.65
68.08'

8+57.61
60.70'

9+13.71
55.77'

SANDMAN LANE
STA. 6+33.95

ENTRANCE
STA. 6+32.76

ENTRANCE
STA. 8+85.95

ENTRANCE
STA. 8+86.97

90°0'0"

90°0'0"

90°0'0"

90°0'0"

INLET PROTECTION

INLET PROTECTION

INLET PROTECTION

SILT FENCE

SILT FENCE

SILT FENCE

SILT FENCE

SILT FENCE

SILT FENCE

5+74.15
70.00'

6+00.96
96.02'

6+85.69
70.00'

6+99.99
87.78'

7+99.99
55.77'

7+99.99
70.00'

SANDMAN LANE

EXIST. CITY R/W

EXIST. CITY R/W

OWNER: COMMERCE BANK NA

OWNER: MCDONALDS REAL EST CO OF COL MD #24-349

OWNER: CPD ENTERPRISES LLC
(SEE NEXT SHEET)

SW 1/4 SE 1/4
SECTION 25 T48N R13W

10

1

1/5/2026

STATE OF MISSOURI
BENJAMIN A. ROSS
NUMBER E-30054
REGISTERED PROFESSIONAL ENGINEER

BENJAMIN A. ROSS
REGISTERED PROFESSIONAL ENGINEER E-30054

DATE PREPARED
1/5/2026

ROUTE	STATE
AC	MO
DISTRICT	SHEET NO.
CD	43

COUNTY
BOONE

JOB NO.
JCD0123

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)

Engineering Surveys & Services
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573.445.9853 www.essmo.com
MO Land Surveying Corp. # 2004004472
MO Engineering Corp. # 2004005916

EROSION CONTROL PLAN

SHEET 2 OF 25

SCALE
0 20 40 60

TAKE 5 OIL CHANGE
OWNER: TKG ROCK BRIDGE CENTER LLC
STARBUCKS COFFEE
PIZZA HUT
OWNER: TKG ROCK BRIDGE CENTER LLC
OWNER: TKG ROCK BRIDGE CENTER LLC
OWNER: FUGATE J LARRY REVOCABLE TRUST
OWNER: ENNIS GARY N & KATHLEEN F TRUSTS
OWNER: NIFONG LAND INVESTMENTS LLC
OWNER: DL ROGERS CORP
OWNER: CPD ENTERPRISES LLC
11.00 SQ. FT. PERM SIDEWALK EASEMENT
1.14 AC. REMAINING ACREAGE
1.14 AC. BEGINNING ACREAGE
(PER CITY OF COLUMBIA GIS)

1/4 1/4 SEC LINE
SW 1/4 SE 1/4
SECTION 25 T48N R13W
SE 1/4 SE 1/4
SECTION 25 T48N R13W
SW 1/4 SE 1/4
SECTION 25 T48N R13W
SE 1/4 SE 1/4
SECTION 25 T48N R13W

EXIST. CITY R/W
EXISTING R/W
MATCHLINE STA. 10+60.00
MATCHLINE STA. 15+95.00
℄ ROUTE AC (NIFONG BOULEVARD)
S83°19'11"E
ROCKMAN LANE
STA. 11+32.35
ENTRANCE
STA. 11+33.69
BUTTONWOOD DRIVE
STA. 13+94.34
BUTTONWOOD DRIVE
STA. 13+71.28
90°0'0"
84°18'0"
PERMANENT SIDEWALK EASEMENT
SILT FENCE
INLET PROTECTION
UE
G
W
SIGN
PED
STORM

11+00.72
55.77'
11+71.26
52.50'
12+30.30
52.50'
13+12.33
52.49'
13+30.90
63.33'
13+32.26
65.56'
13+35.96
91.86'
13+35.96
89.61'
14+05.96
91.86'
14+17.22
91.86'
14+40.29
66.44'
14+69.81
54.13'
15+35.41
54.13'
10+66.27
52.49'
10+82.67
52.49'
10+66.27
55.77'
10+99.08
90.22'
11+65.52
90.22'
11+81.10
65.62'
12+30.30
65.62'
13+28.74
65.62'
13+55.28
100.39'
13+56.66
155.35'
14+52.39
145.83'
14+49.08
112.50'
14+86.22
65.62'
15+58.38
65.62'

ROCKMAN LANE
BUTTONWOOD DRIVE
1/4 1/4 SEC LINE

15

1/5/2026
STATE OF MISSOURI
BENJAMIN A. ROSS
NUMBER E-30054
REGISTERED PROFESSIONAL ENGINEER
Benjamin A. Ross

BENJAMIN A. ROSS
REGISTERED PROFESSIONAL ENGINEER E-30054

DATE PREPARED
1/5/2026

ROUTE	STATE
AC	MO
DISTRICT	SHEET NO.
CD	44

COUNTY
BOONE
JOB NO.
JCD0123
CONTRACT ID.
PROJECT NO.
BRIDGE NO.

DATE	DESCRIPTION

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

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MO Land Surveying Corp. # 2004004572
MO Engineering Corp. # 2004005918

EROSION CONTROL PLAN
SHEET 3 OF 25

SCALE
0 20 40 60

PI 24+88.15
PC 17+78.80
PT 31+40.47
Δ 39°38'0.0" (LT)
D 2°54'38.3"
L 1,361.67' (ARC)
T 709.35'
R 1,968.49'

EL MAGUEY

OWNER: ENNIS GARY N & KATHLEEN F TRUSTS

OWNER: NIFONG PROPERTIES LLC

OWNER: THF RED OAK DEVELOPMENT LLC #200

NE 1/4 SE 1/4
SECTION 25 T48N R13W

1/4 1/4 SEC LINE

SE 1/4 SE 1/4
SECTION 25 T48N R13W

16+89.61
54.13'

17+39.32
66.01'

17+39.32
54.13'

18+04.44
55.77'

18+86.46
63.98'

19+31.83
95.96'

19+68.48
99.15'

EXISTING R/W

EXISTING R/W

SILT FENCE

INLET PROTECTION

INLET PROTECTION

20

MATCHLINE STA. 15+95.00

MATCHLINE STA. 21+30.00

S83°19'11"E

90°0'0"

90°0'0"

84°34'10"

PC STA 17+78.80

℄ ROUTE AC (NIFONG BOULEVARD)

ENTRANCE
STA. 17+20.11

HYDE PARK AVENUE
STA. 17+21.13

ENTRANCE
STA. 17+69.99

EXISTING R/W

16+69.81
65.62'

17+04.49
88.58'

SILT FENCE

17+54.74
88.58'

17+78.80
75.46'

EXISTING R/W

19+68.50
100.07'

20+50.52
100.07'

OWNER: DL ROGERS CORP

EXIST. CITY R/W

HYDE PARK AVENUE

EXIST. CITY R/W

OWNER: BROCKMAN FARMING LLC

OWNER: HYDE PARK TOWNHOMES LLC

SE 1/4 SE 1/4
SECTION 25 T48N R13W

1/5/2026
STATE OF MISSOURI
BENJAMIN A. ROSS
NUMBER E-30054
REGISTERED PROFESSIONAL ENGINEER
Benjamin A. Ross

BENJAMIN A. ROSS
REGISTERED PROFESSIONAL ENGINEER E-30054

DATE PREPARED
1/5/2026

ROUTE	STATE
AC	MO
DISTRICT	SHEET NO.
CD	45

COUNTY
BOONE

JOB NO.
JCD0123

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)

Engineering Surveys & Services
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573.449.4949 www.ess-mo.com
MO Land Surveying Corp. # 2004005472
MO Engineering Corp. # 2004005918

EROSION CONTROL PLAN
SHEET 4 OF 25

SCALE
0 20 40 60

NE 1/4 SE 1/4
SECTION 25 T48N R13W

PI 24+88.15
PC 17+78.80
PT 31+40.47
Δ 39°38'0.0" (LT)
D 2°54'38.3"
L 1,361.67' (ARC)
T 709.35'
R 1,968.49'

OWNER: THE RED OAK DEVELOPMENT LLC #200

STA 21+84.37
OFF 91.17' LT.

STA 21+85.35
OFF 101.13' LT.

STA 22+12.20
OFF 98.55' LT.

STA 22+11.07
OFF 88.61' LT.

SILT FENCE

EXISTING R/W

23+78.60
64.30' ℄

25+42.65
98.43' ℄

EXISTING R/W

SILT FENCE

SILT FENCE

INLET PROTECTION

25

SIGN

S.L.

MATCHLINE STA. 21+30.00

90°0'0"

ENTRANCE
STA. 21+63.38

1/4 1/4 SEC LINE
SECTION 25 T48N R13W

℄ ROUTE AC (NIFONG BOULEVARD)

RANGE LINE

MATCHLINE STA. 26+65.00

℄ STATE FARM PARKWAY

1.67 AC.±

EXISTING R/W

OWNER: HYDE PARK TOWNHOMES LLC

OWNER: HYDE PARK TOWNHOMES LLC

23+78.60
96.42' ℄

25+42.65
101.71' ℄

25+63.33
132.70' ℄

SE 1/4 SE 1/4
SECTION 25 T48N R13W

OWNER: OLD NIFONG RE LLC

SW 1/4 SW 1/4
SECTION 30 T48N R12W

1/5/2026

STATE OF MISSOURI
BENJAMIN A. ROSS
NUMBER E-30054
REGISTERED PROFESSIONAL ENGINEER

BENJAMIN A. ROSS
REGISTERED PROFESSIONAL ENGINEER E-30054

DATE PREPARED
1/5/2026

ROUTE	STATE
AC	MO
DISTRICT	SHEET NO.
CD	46

COUNTY
BOONE

JOB NO.
JCD0123

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)

Engineering Surveys & Services
DELIVERING YOUR VISION™
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573.443.3363 | fax 573.443.6625
MO LA and Surveyors Corp. # 2004005472
MO Engineering Corp. # 2004005516

EROSION CONTROL PLAN

SHEET 5 OF 25

NE 1/4 SE 1/4
SECTION 25 T48N R13W

OWNER: THE RED OAK DEVELOPMENT LLC #200

PI 24+88.15
PC 17+78.80
PT 31+40.47
Δ 39°38'0.0" (LT)
D 2°54'38.3"
L 1,361.67' (ARC)
T 709.35'
R 1,968.49'

EXISTING R/W

25+42.65
98.43'

SILT FENCE

SILT FENCE

INLET PROTECTION

MATCHLINE STA. 23+97.50

1/4 1/4 SEC LINE

SECTION 25 T48N R13W

℄ ROUTE AC (NIFONG BOULEVARD)

25

26+41.06
277.38'

M 90°01'05"

START STA 19+18.48

PC STA 19+68.48

RANGE LINE

20

PI 20+70.64
PC 19+68.48
PT 21+70.90
Δ 19°6'30.3" (LT)
D 9°26'23.9"
L 202.42' (ARC)
T 102.16'
R 606.95'

℄ GREEN MEADOWS ROAD

PT STA 21+70.90

RANGE LINE

28+19.33
214.02'

NW 1/4 SW 1/4
SECTION 30 T48N R12W

OWNER: THF GRINDSTONE PLAZA DEVELOPMENT LLC

28+07.67
166.69'

28+29.72
144.36'

EXISTING R/W

SECTION 30 T48N R12W

MATCHLINE STA. 29+37.50

ROUTE AC (GRINDSTONE PARKWAY) STA. 26+73.85
GREEN MEADOWS ROAD STA. 22+46.46

SCALE
0 20 40 60

1/5/2026

STATE OF MISSOURI
BENJAMIN A. ROSS
NUMBER E-30054
REGISTERED PROFESSIONAL ENGINEER

BENJAMIN A. ROSS
REGISTERED PROFESSIONAL ENGINEER E-30054

DATE PREPARED
1/5/2026

ROUTE	STATE
AC	MO
DISTRICT	SHEET NO.
CD	47

COUNTY
BOONE

JOB NO.
JCD0123

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL
JEFFERSON CITY, MO 65102
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MO Land Surveying Corp. # 2004004272
MO Engineering Corp. # 2004005916

EROSION CONTROL PLAN

SHEET 6 OF 25

MATCHLINE STA. 23+97.50

1/4 1/4 SEC LINE

SECTION 25 T48N R13W

℄ ROUTE AC (NIFONG BOULEVARD)

RANGE LINE

SECTION 30 T48N R12W

ROUTE AC (GRINDSTONE PARKWAY) STA. 26+73.85
GREEN MEADOWS ROAD STA. 22+46.46

MATCHLINE STA. 29+37.50

SCALE
0 20 40 60

UE

UE

UE

EXISTING R/W

25+42.65
101.71'

℄ STATE FARM PARKWAY

S17°56'25"E

1/4 1/4 SEC LINE

EXISTING R/W

27+88.71
114.83'

SE 1/4 SE 1/4
SECTION 25 T48N R13W

OWNER: OLD NIFONG RE LLC

25+63.33
132.70'

SW 1/4 SW 1/4
SECTION 30 T48N R12W

OWNER: PL REAL ESTATE LLC

27+62.98
136.56'

NW 1/4 SW 1/4
SECTION 30 T48N R12W

SW 1/4 SW 1/4
SECTION 30 T48N R12W

PI 24+88.15
PC 17+78.80
PT 31+40.47
Δ 39°38'0.0" (LT)
D 2°54'38.3"
L 1,361.67' (ARC)
T 709.35'
R 1,968.49'

RANGE LINE

25+80.99
235.52'

25+82.57
255.33'

27+42.05
238.63'

25

27+39.09
258.59'

END STA 25+24.21

1/5/2026

STATE OF MISSOURI
BENJAMIN A. ROSS
NUMBER E-30054
REGISTERED PROFESSIONAL ENGINEER

BENJAMIN A. ROSS
REGISTERED PROFESSIONAL ENGINEER E-30054

DATE PREPARED
1/5/2026

ROUTE	STATE
AC	MO
DISTRICT	SHEET NO.
CD	48

COUNTY
BOONE

JOB NO.
JCD0123

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

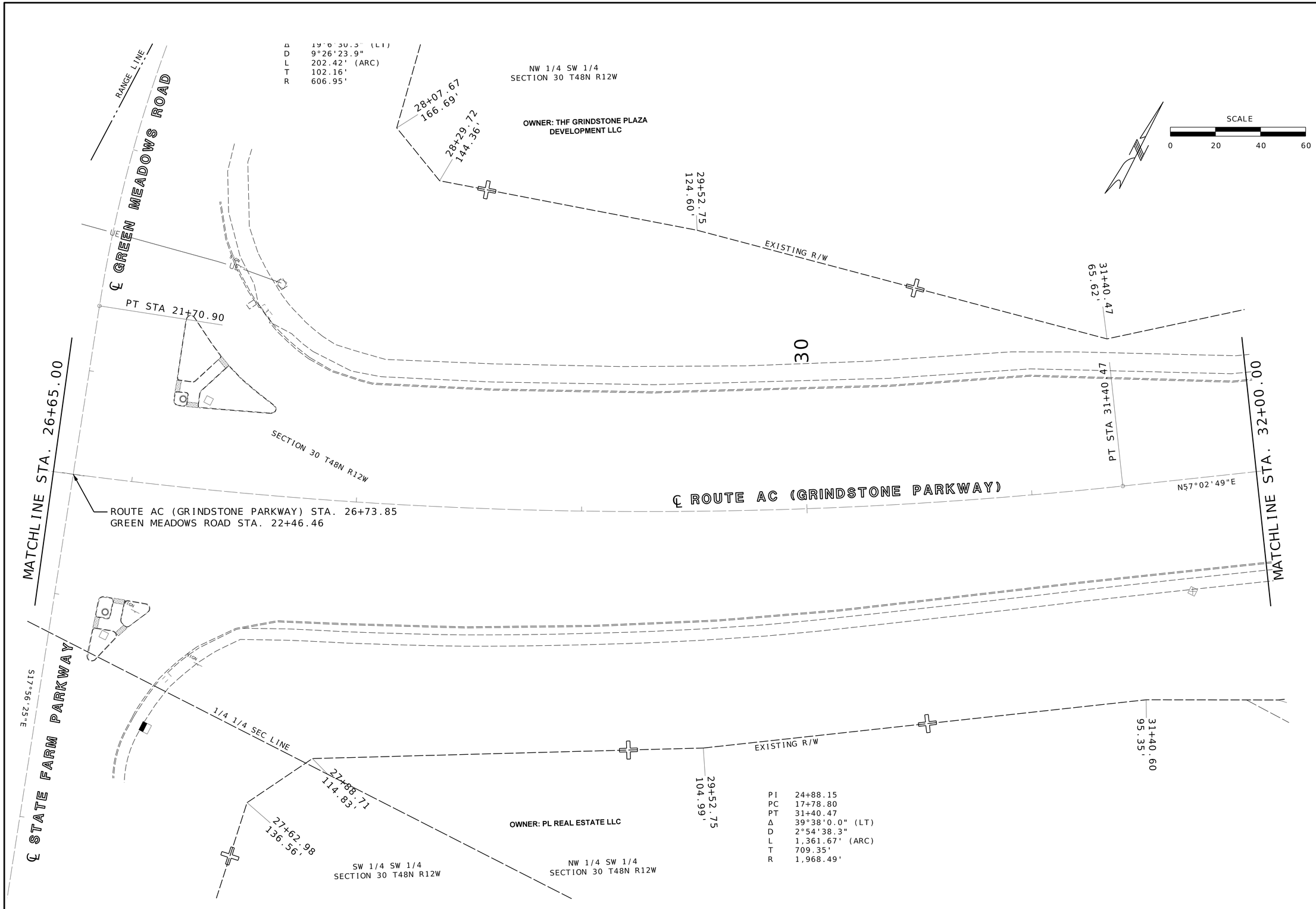
DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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

Engineering Surveys & Services
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MO Land Surveying Corp. # 2004004672
MO Engineering Corp. # 2004005918

EROSION CONTROL PLAN
SHEET 7 OF 25



1/5/2026

STATE OF MISSOURI
BENJAMIN A. ROSS
NUMBER E-30054
REGISTERED PROFESSIONAL ENGINEER

BENJAMIN A. ROSS
REGISTERED PROFESSIONAL ENGINEER E-30054

DATE PREPARED
1/5/2026

ROUTE	STATE
AC	MO
DISTRICT	SHEET NO.
CD	49

COUNTY
BOONE

JOB NO.
JCD0123

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL
JEFFERSON CITY, MO 65102
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MO Engineering Corp. # 2004005918

EROSION CONTROL PLAN

SHEET 8 OF 25

NW 1/4 SW 1/4
SECTION 30 T48N R12W

WAL-MART SUPERCENTER

OWNER: THF GRINDSTONE PLAZA DEVELOPMENT LLC

SCALE
0 20 40 60

33+62.86
88.58'

35+26.91
91.86'

36+08.92
95.14'

EXISTING R/W

EXISTING R/W

35

MATCHLINE STA. 32+00.00

℄ ROUTE AC (GRINDSTONE PARKWAY)

MATCHLINE STA. 37+35.00

ENTRANCE
STA. 36+89.76

90°0'0"

36+90.95
59.03'

EXISTING R/W

36+90.95
78.74'

EXISTING R/W

31+98.82
101.71'

34+44.88
98.43'

OWNER: PL REAL ESTATE LLC

OWNER: CITY OF COLUMBIA

OWNER: 3511 NORFLEET LLC

NW 1/4 SW 1/4
SECTION 30 T48N R12W

1/5/2026

STATE OF MISSOURI
BENJAMIN A. ROSS
NUMBER E-30054
REGISTERED PROFESSIONAL ENGINEER

BENJAMIN A. ROSS
REGISTERED PROFESSIONAL ENGINEER E-30054

DATE PREPARED
1/5/2026

ROUTE	STATE
AC	MO
DISTRICT	SHEET NO.
CD	50

COUNTY
BOONE

JOB NO.
JCD0123

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL
JEFFERSON CITY, MO 65102
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MO Land Surveying Corp. # 2004004672
MO Engineering Corp. # 2004005918

EROSION CONTROL PLAN
SHEET 9 OF 25

NW 1/4 SW 1/4
SECTION 30 T48N R12W

WAL-MART SUPERCENTER

OWNER: THF GRINDSTONE PLAZA DEVELOPMENT LLC

SCALE
0 20 40 60

39+36.99
121.39'

41+01.03
118.11'

41+83.05
104.99'

EXISTING R/W

40

STORM

SIGN

MATCHLINE STA. 37+35.00

MATCHLINE STA. 42+70.00

NORFLEET DRIVE
STA. 41+41.00

℄ ROUTE AC (GRINDSTONE PARKWAY)

N57°02'49"E

90°0'0"

EXISTING R/W

40+79.62
59.08'

42+05.62
59.09'

EXIST. CITY R/W

NORFLEET DRIVE

EXIST. CITY R/W

OWNER: RED OAK MARKETPLACE LLC

OWNER: BURRITO REAL ESTATE LLC

OWNER: FIRST MIDWEST BANK OF POPLAR BLUFF

OWNER: 3511 NORFLEET LLC

FIRST MIDWEST BANK

NW 1/4 SW 1/4
SECTION 30 T48N R12W

1/5/2026

STATE OF MISSOURI
BENJAMIN A. ROSS
NUMBER E-30054
REGISTERED PROFESSIONAL ENGINEER

Benjamin A. Ross

BENJAMIN A. ROSS
REGISTERED PROFESSIONAL ENGINEER E-30054

DATE PREPARED
1/5/2026

ROUTE	STATE
AC	MO
DISTRICT	SHEET NO.
CD	51

COUNTY
BOONE

JOB NO.
JCD0123

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)

Engineering Surveys & Services
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MO Land Surveying Corp. # 2004004572
MO Engineering Corp. # 2004005918

EROSION CONTROL PLAN

SHEET 10 OF 25

NW 1/4 SW 1/4
SECTION 30 T48N R12W

SW 1/4 NW 1/4
SECTION 30
T48N R12W

1/4 SEC LINE

SCALE
0 20 40 60

OWNER: THF GRINDSTONE PLAZA DEVELOPMENT LLC

47+57.20
118.11'

44+29.12
82.02'

45+76.75
78.74'

EXISTING R/W

EXISTING R/W

45

MATCHLINE STA. 42+70.00

℄ ROUTE AC (GRINDSTONE PARKWAY)

N57°02'49"E

MATCHLINE STA. 48+05.00

1/4 1/4 SEC LINE

EXISTING R/W

46+75.90
59.15'

EXISTING R/W

46+75.90
69.99'

OWNER: FIRST MIDWEST BANK OF POPLAR BLUFF

OWNER: RESTORATION REAL ESTATE PROPERTIES LLC

OWNER: RHODES DEVELOPMENT COMPANY LLC

OWNER: MFA OIL CAPTIVE INC

FIRST MIDWEST BANK

PLAZA TIRE SERVICE

BREAK TIME

NW 1/4 SW 1/4
SECTION 30 T48N R12W

1/5/2026

STATE OF MISSOURI
BENJAMIN A. ROSS
NUMBER E-30054
REGISTERED PROFESSIONAL ENGINEER

BENJAMIN A. ROSS
REGISTERED PROFESSIONAL ENGINEER E-30054

DATE PREPARED
1/5/2026

ROUTE	STATE
AC	MO
DISTRICT	SHEET NO.
CD	52

COUNTY
BOONE

JOB NO.
JCD0123

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)

Engineering Surveys & Services
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MO Engineering Corp. # 2004005918

EROSION CONTROL PLAN

SHEET 11 OF 25

SW 1/4 NW 1/4
SECTION 30 T48N R12W

HAWAIIAN BROS
ISLAND GRILL

OWNER: THF GRINDSTONE PLAZA
DEVELOPMENT LLC

INLET PROTECTION

EXIST. CITY R/W

49+21.26
104.99'

48+35.93
104.99'

50+25.93
91.76'

50+85.30
88.58'

SE 1/4 NW 1/4
SECTION 30 T48N R12W

INLET PROTECTION

EXIST. CITY R/W

51+42.45
85.92'

51+60.45
65.08'

SCALE
0 20 40 60

OWNER: THF GRINDSTONE PLAZA
DEVELOPMENT LLC

NW 1/4 SW 1/4
SECTION 30
T48N R12W

EXISTING R/W

EXISTING R/W

GRINDSTONE PLAZA DRIVE
STA. 50+87.18

1/4 SEC LINE

90°0'0"

GRINDSTONE PLAZA DRIVE
STA. 50+88.41

℄ ROUTE AC (GRINDSTONE PARKWAY)

MATCHLINE STA. 48+05.00

PC STA 48+35.93

N57°02'49"E

MATCHLINE STA. 53+40.00

INLET PROTECTION

SILT FENCE

EXISTING R/W

48+35.93
91.86'

OWNER: OWNER: MFA OIL CAPTIVE INC

50+03.28
108.27'

50+17.31
107.94'

BREAK TIME

EXIST. CITY R/W

GRINDSTONE PLAZA DRIVE

EXIST. CITY R/W

INLET PROTECTION

51+54.85
96.86'

51+67.32
95.14'

EXISTING R/W

53+31.37
95.44'

OWNER: THE CROSSINGS-EPC OF COLUMBIA

PI	52+73.74
PC	48+35.93
PT	56+77.17
Δ	39°10'35.8" (RT)
D	4°39'25.2"
L	841.24' (ARC)
T	437.81'
R	1,230.31'

NE 1/4 SW 1/4
SECTION 30 T48N R12W

1/5/2026

STATE OF MISSOURI
BENJAMIN A. ROSS
NUMBER E-30054
REGISTERED PROFESSIONAL ENGINEER

BENJAMIN A. ROSS
REGISTERED PROFESSIONAL ENGINEER E-30054

DATE PREPARED
1/5/2026

ROUTE	STATE
AC	MO
DISTRICT	SHEET NO.
CD	53

COUNTY
BOONE

JOB NO.
JCD0123

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL
JEFFERSON CITY, MO 65102
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MO Engineering Corp. # 2004005918

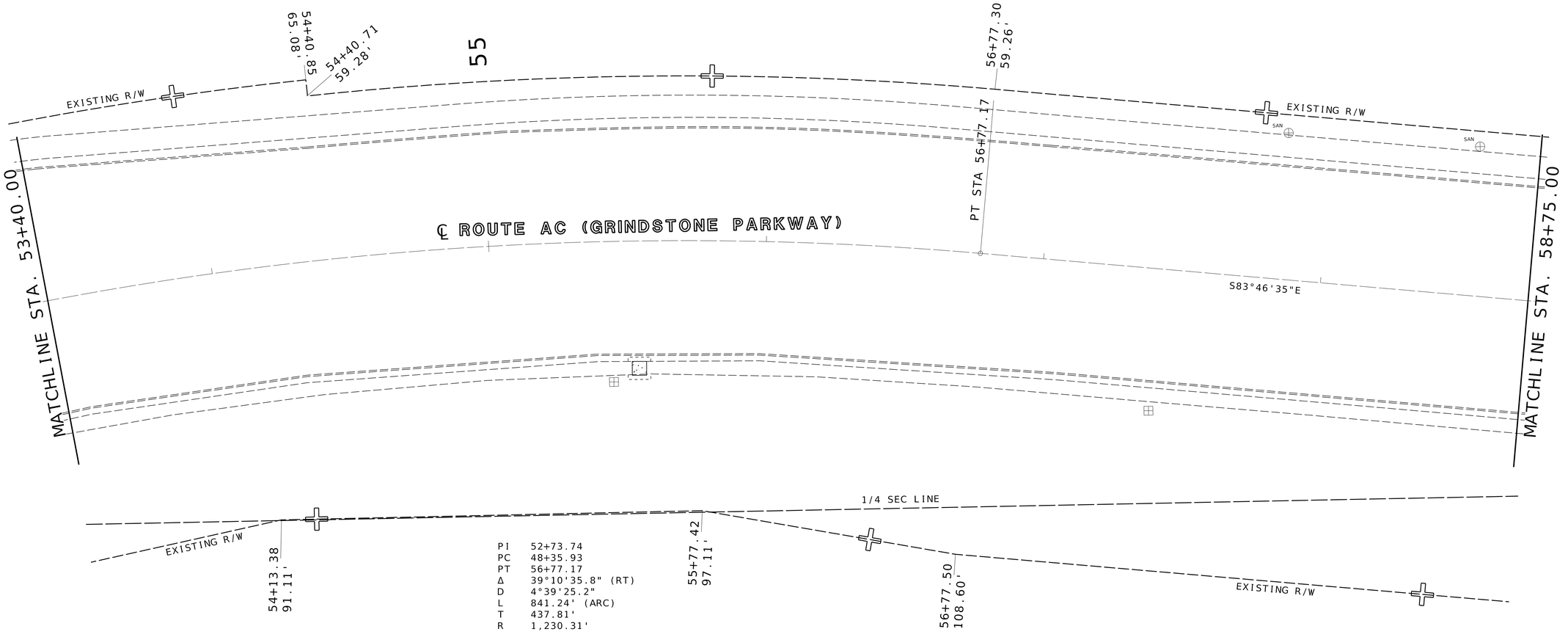
EROSION CONTROL
PLAN

SHEET 12 OF 25

SE 1/4 NW 1/4
SECTION 30 T48N R12W

OWNER: THF GRINDSTONE PLAZA DEVELOPMENT LLC

SCALE
0 20 40 60



PI 52+73.74
PC 48+35.93
PT 56+77.17
Δ 39°10'35.8" (RT)
D 4°39'25.2"
L 841.24' (ARC)
T 437.81'
R 1,230.31'

OWNER: THE CROSSINGS-EPC OF COLUMBIA

NE 1/4 SW 1/4
SECTION 30 T48N R12W

1/5/2026
STATE OF MISSOURI
BENJAMIN A. ROSS
NUMBER E-30054
REGISTERED PROFESSIONAL ENGINEER
Benjamin A. Ross

BENJAMIN A. ROSS
REGISTERED PROFESSIONAL ENGINEER E-30054

DATE PREPARED
1/5/2026

ROUTE	STATE
AC	MO
DISTRICT	SHEET NO.
CD	54

COUNTY
BOONE

JOB NO.
JCD0123

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DATE	DESCRIPTION

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

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MO Land Surveying Corp. # 2004004672
MO Engineering Corp. # 2004005918

EROSION CONTROL PLAN
SHEET 13 OF 25

SE 1/4 NW 1/4
SECTION 30 T48N R12W

OWNER: THF GRINDSTONE PLAZA DEVELOPMENT LLC

SCALE
0 20 40 60

PI 63+27.12
PC 61+28.73
PT 65+25.27
Δ 4°56'47.4" (LT)
D 1°14'50.7"
L 396.54' (ARC)
T 198.39'
R 4,593.16'

61+29.71
108.21'

63+97.62
85.30'

EXISTING R/W

SILT FENCE

SILT FENCE

61+37.94
59.25'

60

EXISTING R/W

SAN

SAN

SAN

MATCHLINE STA. 58+75.00

PC STA 61+28.73

S83°46'35"E

℄ ROUTE AC (GRINDSTONE PARKWAY)

ENTRANCE
STA. 63+18.37

90°0'0"

MATCHLINE STA. 64+10.00

1/4 SEC LINE

SILT FENCE

EXISTING R/W

EXISTING R/W

61+28.73
108.27'

OWNER: THE CROSSINGS-EPC OF COLUMBIA

62+33.58
108.27'

63+97.62
98.43'

OWNER: HAINEN INVESTMENTS LLC

NE 1/4 SW 1/4
SECTION 30 T48N R12W

1/5/2026

STATE OF MISSOURI
BENJAMIN A. ROSS
NUMBER E-30054
REGISTERED PROFESSIONAL ENGINEER

BENJAMIN A. ROSS
REGISTERED PROFESSIONAL ENGINEER E-30054

DATE PREPARED
1/5/2026

ROUTE	STATE
AC	MO
DISTRICT	SHEET NO.
CD	55

COUNTY
BOONE

JOB NO.
JCD0123

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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

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MO Land Surveying Corp. # 2004004672
MO Engineering Corp. # 2004005918

EROSION CONTROL PLAN

SHEET 14 OF 25

PI 63+27.12
PC 61+28.73
PT 65+25.27
Δ 4°56'47.4" (LT)
D 1°14'50.7"
L 396.54' (ARC)
T 198.39'
R 4,593.16'

65+16.54
166.13'

SE 1/4 NW 1/4
SECTION 30 T48N R12W

OWNER: THF GRINDSTONE PLAZA DEVELOPMENT LLC

65+14.76
118.35'

64+79.65
85.30'

EXISTING R/W

SILT FENCE

65

℄ ROCK QUARRY ROAD

UE

SIGN

66+64.60
162.13'

1/4 SEC LINE

SW 1/4 NE 1/4
SECTION 30 T48N R12W

OWNER: COLUMBIA CHINESE CHRISTIAN CHURCH

SCALE
0 20 40 60

PI 72+60.38
PC 68+65.11
PT 76+55.23
Δ 4°31'21.4" (LT)
D 0°34'20.6"
L 790.12' (ARC)
T 395.27'
R 10,009.82'

COLUMBIA CHINESE CHRISTIAN CHURCH

67+25.71
82.02'

EXISTING R/W

SILT FENCE

68+07.73
55.77'

68+65.11
55.77'

PT STA 65+25.27

PC STA 68+65.11

106°13'20"

S88°43'23"E

℄ ROUTE AC (GRINDSTONE PARKWAY)

ROUTE AC (GRINDSTONE PARKWAY) STA. 66+57.75
ROCK QUARRY ROAD STA. 19+50.19

1/4 SEC LINE

1/4 SEC LINE

MATCHLINE STA. 64+10.00

MATCHLINE STA. 69+45.00

20

UE

EXISTING R/W

65+25.27
91.86'

65+61.67
91.86'

OWNER: HAINEN INVESTMENTS LLC

PI 19+95.70
PC 17+36.11
PT 22+45.38
Δ 27°21'56.0" (RT)
D 5°22'24.7"
L 509.27' (ARC)
T 259.59'
R 1,066.26'

66+20.03
109.21'

1/4 SEC LINE

66+41.58
167.69'

NE 1/4 SW 1/4
SECTION 30 T48N R12W

67+61.80
111.55'

68+07.73
88.58'

68+65.11
78.74'

OWNER: ALBERT ERICH D

OWNER: ALBERT ERICH D

69+24.89
55.77'

OWNER: GREEN MARCIA

67+45.72
172.70'

NW 1/4 SE 1/4
SECTION 30 T48N R12W

1/5/2026

STATE OF MISSOURI
BENJAMIN A. ROSS
NUMBER E-30054
REGISTERED PROFESSIONAL ENGINEER

Benjamin A. Ross

BENJAMIN A. ROSS
REGISTERED PROFESSIONAL ENGINEER E-30054

DATE PREPARED
1/5/2026

ROUTE	STATE
AC	MO
DISTRICT	SHEET NO.
CD	56

COUNTY
BOONE

JOB NO.
JCD0123

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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

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MO Land Surveying Corp. # 2004004672
MO Engineering Corp. # 2004005918

EROSION CONTROL PLAN
SHEET 15 OF 25

SW 1/4 NE 1/4
SECTION 30 T48N R12W

OWNER: OWNER: COLUMBIA CHINESE CHRISTIAN CHURCH

OWNER: CRAWFORD VIRGINIA W REVOCABLE

OWNER: MID-MISSOURI DISTRIBUTORS INC

SCALE
0 20 40 60

CONSTRUCT ENTRANCE
71+15.93 LT
20'W x 10'D COMMERCIAL
GRADE = 1.0%
CONCRETE PAVED APPROACH

PI	72+60.38
PC	68+65.11
PT	76+55.23
Δ	4°31'21.4" (LT)
D	0°34'20.6"
L	790.12' (ARC)
T	395.27'
R	10,009.82'

70+74.68
77.42'

74+63.90
65.62'

70 EXISTING R/W

EXISTING R/W

SILT FENCE

SILT FENCE

INLET PROTECTION

INLET PROTECTION

MATCHLINE STA. 69+45.00

MATCHLINE STA. 74+80.00

ENTRANCE
STA. 70+96.28

90°0'0"

90°0'0"

ENTRANCE
STA. 71+15.93

℄ ROUTE AC (GRINDSTONE PARKWAY)

1/4 SEC LINE

INLET PROTECTION

EXISTING R/W

70+19.38
55.77'

70+53.79
55.77'

SILT FENCE

EXISTING R/W

73+81.87
65.62'

OWNER: GREEN MARCIA

OWNER: MODIRI FUAD

CONSTRUCT ENTRANCE
70+96.28 RT
25'W x 10'D COMMERCIAL
GRADE = 1.0%
CONCRETE PAVED APPROACH

OWNER: GREEN MARCIA

72+17.83
91.86'

OWNER: CITY OF COLUMBIA

NW 1/4 SE 1/4
SECTION 30 T48N R12W

1/5/2026

STATE OF MISSOURI
BENJAMIN A. ROSS
NUMBER E-30054
REGISTERED PROFESSIONAL ENGINEER

BENJAMIN A. ROSS
REGISTERED PROFESSIONAL ENGINEER E-30054

DATE PREPARED
1/5/2026

ROUTE	STATE
AC	MO

DISTRICT	SHEET NO.
CD	57

COUNTY
BOONE

JOB NO.
JCD0123

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL
JEFFERSON CITY, MO 65102
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MO Land Surveying Corp. # 2004005672
MO Engineering Corp. # 2004005916

EROSION CONTROL PLAN
SHEET 16 OF 25

SW 1/4 NE 1/4
SECTION 30 T48N R12W

PI 72+60.38
PC 68+65.11
PT 76+55.23
Δ 4°31'21.4" (LT)
D 0°34'20.6"
L 790.12' (ARC)
T 395.27'
R 10,009.82'

OWNER: MID-MISSOURI DISTRIBUTORS INC

SCALE
0 20 40 60

CONSTRUCT ENTRANCE
75+23.22 LT
48'W x 10'D COMMERCIAL
CONCRETE PAVED APPROACH

75

EXISTING R/W

76+55.23
78.74'

77+91.98
69.22'

EXISTING R/W

80

MATCHLINE STA. 74+80.00

PRC STA 76+55.23

℄ ROUTE AC (GRINDSTONE PARKWAY)

MATCHLINE STA. 80+15.00

90°0'0"

ENTRANCE
STA. 75+23.22

90°0'0"

ENTRANCE
STA. 75+16.58

1/4 SEC LINE

1/4 1/4 SEC LINE

1 SIGN

SILT FENCE

SILT FENCE

EXISTING R/W

75+45.91
82.02'

76+27.94
82.02'

76+55.23
79.92'

77+91.98
68.90'

78+74.00
91.86'

EXISTING R/W

80+02.77
88.78'

CONSTRUCT ENTRANCE
75+16.58 RT
34'W x 12'D COMMERCIAL
GRADE = 1.04%
CONCRETE PAVED APPROACH

OWNER: CITY OF COLUMBIA

PI 80+50.50
PC 76+55.23
PT 84+45.36
Δ 4°31'21.4" (RT)
D 0°34'20.6"
L 790.13' (ARC)
T 395.27'
R 10,009.95'

NW 1/4 SE 1/4
SECTION 30 T48N R12W

1/5/2026

STATE OF MISSOURI
BENJAMIN A. ROSS
NUMBER E-30054
REGISTERED PROFESSIONAL ENGINEER

BENJAMIN A. ROSS
REGISTERED PROFESSIONAL ENGINEER E-30054

DATE PREPARED
1/5/2026

ROUTE	STATE
AC	MO

DISTRICT	SHEET NO.
CD	58

COUNTY
BOONE

JOB NO.
JCD0123

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)

Engineering Surveys & Services
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MO Land Surveying Corp. # 2004004672
MO Engineering Corp. # 2004005918

EROSION CONTROL PLAN
SHEET 17 OF 25

SE 1/4 NE 1/4
SECTION 30 T48N R12W

SCALE
0 20 40 60

OWNER: GRINDSTONE PARKWAY LLC

OWNER: HYATT WILL

OWNER: SOLID ROCK QUARRY LLC

FOREST DRIVE

CONSTRUCT ENTRANCE
80+80.38 LT
20'W x 9'D COMMERCIAL
GRADE = 1.6%
CONCRETE PAVED APPROACH

CONSTRUCT ENTRANCE
84+72.21 LT
19'W x 10'D COMMERCIAL
GRADE = 1.3%
CONCRETE PAVED APPROACH

80+16.24
71.30'
80+38.04
72.18'
82+02.08
68.90'
84+45.36
68.90'

EXISTING R/W

SIGN

MATCHLINE STA. 80+15.00
1/4 SEC LINE

FOREST DRIVE
STA. 82+71.07

℄ ROUTE AC (GRINDSTONE PARKWAY)

PT STA 84+45.36

MATCHLINE STA. 85+50.00

90°0'0"

ENTRANCE
STA. 80+80.38

CHURCHILL DRIVE
STA. 82+63.02

ENTRANCE
STA. 84+72.21

S88°43'23"E

1/4 SEC LINE

EXISTING R/W

PI 80+50.50
PC 76+55.23
PT 84+45.36
Δ 4°31'21.4" (RT)
D 0°34'20.6"
L 790.13' (ARC)
T 395.27'
R 10,009.95'

82+06.77
93.77'

OWNER: MORETON PROPERTY LLC

82+36.79
131.23'

EXIST. CITY R/W

CHURCHILL DRIVE

EXIST. CITY R/W

82+87.22
131.23'

83+17.80
94.78'

EXISTING R/W

84+45.36
93.96'

84+97.36
93.96'

OWNER: J S GERAU PROPERTIES LLC

OWNER: STEPHENS ROBERT L
JR LIVING TRUST

NE 1/4 SE 1/4
SECTION 30 T48N R12W

85

THIS MEDIA SHOULD NOT BE CONSIDERED A CERTIFIED DOCUMENT
PRELIMINARY
NOT FOR CONSTRUCTION, BIDDING, RECORDING, OR PERMIT REVIEW PURPOSES

BENJAMIN A. ROSS
REGISTERED PROFESSIONAL ENGINEER E-30054

DATE PREPARED
1/5/2026

ROUTE	STATE
AC	MO
DISTRICT	SHEET NO.
CD	59

COUNTY
BOONE

JOB NO.
JCD0123

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL
JEFFERSON CITY, MO 65102
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MO Engineering Corp. # 2004005916

EROSION CONTROL PLAN
SHEET 18 OF 25

SE 1/4 NE 1/4
SECTION 30 T48N R12W

OWNER: SOLID ROCK QUARRY LLC

OWNER: COPPER BEECH TOWNHOMES COMMUNITIES TWENTY LLC

SCALE
0 20 40 60

86+12.19
108.27'

86+54.84
131.23'

86+94.21
131.23'

88+58.25
114.83'

EXISTING R/W

COPPER BEACH

EXISTING R/W

SILT FENCE

SILT FENCE

SIGN

INLET PROTECTION

90

MATCHLINE STA. 85+50.00

MATCHLINE STA. 90+85.00

COPPER BEACH
STA. 88+04.45

℄ ROUTE AC (GRINDSTONE PARKWAY)

S88°43'2

90°0'0"

90°0'0"

ENTRANCE
STA. 88+05.51

INLET PROTECTION

1/4 SEC LINE

SILT FENCE

EXISTING R/W

CONSTRUCT ENTRANCE
88+05.51 RT
20'W x 10'D COMMERCIAL
GRADE = 1.5%
CONCRETE PAVED APPROACH

OWNER: SOUTHRIDGE HOMES ASSOCIATION OF BOONE COUNTY

88+58.25
90.75'

OWNER: GILL ROBERTA J

EXISTING R/W

OWNER: WON JUNG & MINGJIA YANG

OWNER: ELMORE ANDREW & JANELLE

NE 1/4 SE 1/4
SECTION 30 T48N R12W

1/5/2026

STATE OF MISSOURI
BENJAMIN A. ROSS
NUMBER E-30054
REGISTERED PROFESSIONAL ENGINEER

Benjamin A. Ross

BENJAMIN A. ROSS
REGISTERED PROFESSIONAL ENGINEER E-30054

DATE PREPARED
1/5/2026

ROUTE	STATE
AC	MO
DISTRICT	SHEET NO.
CD	60

COUNTY
BOONE

JOB NO.
JCD0123

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL
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MO Engineering Corp. # 2004005918

EROSION CONTROL PLAN

SHEET 19 OF 25

SCALE
0 20 40 60

O2B KIDS EAST CAMPUS

SE 1/4 NE 1/4
SECTION 30 T48N R12W

SW 1/4 NW 1/4
SECTION 29 T48N R12W

℄ BEARFIELD ROAD
SECTION LINE

PT STA 5+70.50

92+34.44
167.46'

94+25.37
167.86'

OWNER: COPPER BEECH TOWNHOMES
COMMUNITIES TWENTY LLC

OWNER: THE BEARFIELD 63 DEVELOPMENT LLC

92+44.50
114.63'

94+31.14
122.13'

95+33.85
103.09'

95+96.44
118.11'

91+04.31
82.02'

91+86.33
65.62'

EXISTING R/W

SILT FENCE

SIGN

INLET PROTECTION

95

MATCHLINE STA. 90+85.00

MATCHLINE STA. 96+20.00

ROUTE AC (GRINDSTONE PARKWAY) STA. 93+39.78
BEARFIELD ROAD STA. 7+38.18

90°7'8"

℄ ROUTE AC (GRINDSTONE PARKWAY)

S88°43'23"E

S88°43'23"E

INLET PROTECTION

INLET PROTECTION

1/4 SEC LINE

1/4 SEC LINE

UE

S01°09'29"W

EXISTING R/W

EXISTING R/W

91+04.31
88.52'

92+68.35
87.04'

92+94.17
103.35'

94+05.16
86.78'

94+63.33
87.50'

95+38.33
88.42'

92+92.57
96.59'

OWNER: GL2 PROPERTIES LLC

OWNER: ELMORE ANDREW
& JANELLE

OWNER: ZHENG GUOLU & YU ZHANG

OWNER: JACOBS DELTON L & JANIE H

OWNER: JACOBS DELTON L

93+06.71
130.88'

93+72.88
131.23'

EXIST. CITY R/W

EXIST. CITY R/W

OWNER: JACOBS DELTON L

NE 1/4 SE 1/4
SECTION 30 T48N R12W

NW 1/4 SW 1/4
SECTION 29 T48N R12W

1/5/2026

STATE OF MISSOURI
BENJAMIN A. ROSS
NUMBER E-30054
REGISTERED PROFESSIONAL ENGINEER

BENJAMIN A. ROSS
REGISTERED PROFESSIONAL ENGINEER E-30054

DATE PREPARED
1/5/2026

ROUTE	STATE
AC	MO
DISTRICT	SHEET NO.
CD	61

COUNTY
BOONE

JOB NO.
JCD0123

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL
JEFFERSON CITY, MO 65102
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MO Engineering Corp. # 2004005918

EROSION CONTROL
PLAN
SHEET 20 OF 25

SW 1/4 NW 1/4
SECTION 29 T48N R12W

O2B KIDS EAST CAMPUS

OWNER: THE BEARFIELD 63 DEVELOPMENT LLC

SCOOTER'S COFFEE

OWNER: OWNER: THE BEARFIELD 63 DEVELOPMENT LLC

SCALE
0 20 40 60

96+78.46
124.67'

97+16.44
116.77'

EXISTING R/W

98+42.50
91.86'

99+04.66
12.38'

OLD HIGHWAY 63

100+88.56
65.62'

EXISTING R/W

MATCHLINE STA. 96+20.00

PC STA 97+16.44

UE

ENTRANCE
STA. 99+26.07

℄ ROUTE AC (GRINDSTONE PARKWAY)

90°0'0"

OLD HIGHWAY 63
STA. 99+67.49

S88°43'23"E

CONSTRUCT PARTIAL ENTRANCE
99+26.07 RT
10'W x 9'D COMMERCIAL
GRADE = 1.8%
CONCRETE PAVED APPROACH

MATCHLINE STA. 101+55.00

SILT FENCE

1/4 SEC LINE

97+16.44
72.18'

EXISTING R/W

99+40.92
62.34'

100+06.54
84.22'

EXISTING R/W

EXISTING R/W

97+16.44
90.58'

98+42.50
68.90'

PI 99+90.20
PC 97+16.44
PT 102+63.19
Δ 7°27'32.0" (RT)
D 1°21'51.2"
L 546.75' (ARC)
T 273.76'
R 4,199.88'

OWNER: JACOBS DELTON L

OWNER: MARCH JAMES P & DEBBIE L

OWNER: BATT PROPERTIES LLC

OWNER: AMP INVESTMENTS LLC

OWNER: CITY OF COLUMBIA

NW 1/4 SW 1/4
SECTION 29 T48N R12W

1/5/2026

STATE OF MISSOURI
BENJAMIN A. ROSS
NUMBER E-30054
REGISTERED PROFESSIONAL ENGINEER

BENJAMIN A. ROSS
REGISTERED PROFESSIONAL ENGINEER E-30054

DATE PREPARED
1/5/2026

ROUTE	STATE
AC	MO
DISTRICT	SHEET NO.
CD	62

COUNTY
BOONE

JOB NO.
JCD0123

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL
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MO Engineering Corp. # 2004005916

EROSION CONTROL PLAN
SHEET 21 OF 25

SCALE
0 20 40 60

SW 1/4 NW 1/4
SECTION 29 T48N R12W

CLUB CAR WASH

OWNER: STORE MASTER FUNDING XIII LLC

OWNER:
BOONE COUNTY

OWNER: STRICKER WILLIAM E

101+70.58
85.30'

102+63.19
98.43'

103+34.62
75.46'

104+98.67
95.14'

EXISTING R/W

EXISTING R/W

SILT FENCE

SILT FENCE

SILT FENCE

105

PI 105+36.95
PC 102+63.19
PT 108+10.05
Δ 6°54'53.4" (LT)
D 1°15'52.1"
L 546.86' (ARC)
T 273.76'
R 4,531.24'

MATCHLINE STA. 101+55.00

PRC STA 102+63.19

℄ ROUTE AC (GRINDSTONE PARKWAY)

UT

UT

G

ROUTE AC (GRINDSTONE PARKWAY) STA. 104+65.75
PONDEROSA STREET STA. 6+56.16

START STA 6+56.16

90°0'0"

1/4 SEC LINE

S06°10'24"W

℄ PONDEROSA STREET

PC STA 7+27.23

SIGN

SIGN

1/4 1/4 SEC LINE

MATCHLINE STA. 106+90.00

101+70.58
75.46'

EXISTING R/W

102+63.19
88.58'

103+03.26
90.19'

103+96.57
147.41'

105+80.69
98.43'

EXISTING R/W

105+50.14
115.03'

OWNER: CITY OF COLUMBIA

OWNER: WALTERS RAUL J MARITAL TRUST

OWNER: CENTURYTEL OF MISSOURI LLC

PI 99+90.20
PC 97+16.44
PT 102+63.19
Δ 7°27'32.0" (RT)
D 1°21'51.2"
L 546.75' (ARC)
T 273.76'
R 4,199.88'

NW 1/4 SW 1/4
SECTION 29 T48N R12W

PI 8+90.17
PC 7+27.23
PT 10+25.01
Δ 57°46'58.2" (LT)
D 19°24'16.3"
L 297.78' (ARC)
T 162.94'
R 295.27'

1/5/2026

STATE OF MISSOURI
BENJAMIN A. ROSS
NUMBER E-30054
REGISTERED PROFESSIONAL ENGINEER

Benjamin A. Ross

BENJAMIN A. ROSS
REGISTERED PROFESSIONAL ENGINEER E-30054

DATE PREPARED
1/5/2026

ROUTE	STATE
AC	MO
DISTRICT	SHEET NO.
CD	63

COUNTY
BOONE

JOB NO.
JCD0123

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DATE	DESCRIPTION

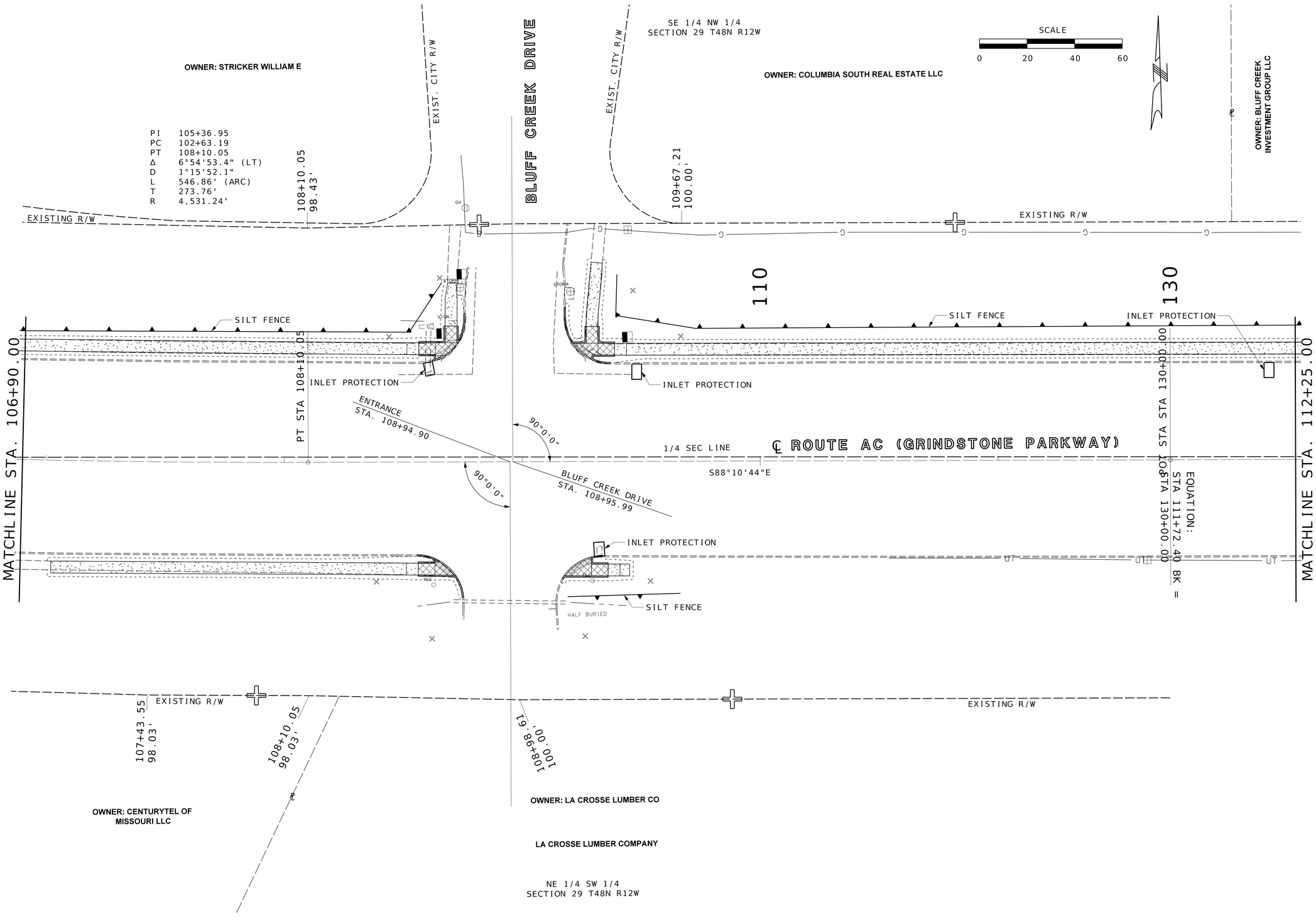
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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MO Engineering Corp. # 2004005918

EROSION CONTROL PLAN

SHEET 22 OF 25



1/5/2026

STATE OF MISSOURI
BENJAMIN A. ROSS
NUMBER E-30054
REGISTERED PROFESSIONAL ENGINEER

BENJAMIN A. ROSS
REGISTERED PROFESSIONAL ENGINEER E-30054

DATE PREPARED
1/5/2026

ROUTE	STATE
AC	MO
DISTRICT	SHEET NO.
CD	64

COUNTY
BOONE

JOB NO.
JCD0123

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DATE	DESCRIPTION

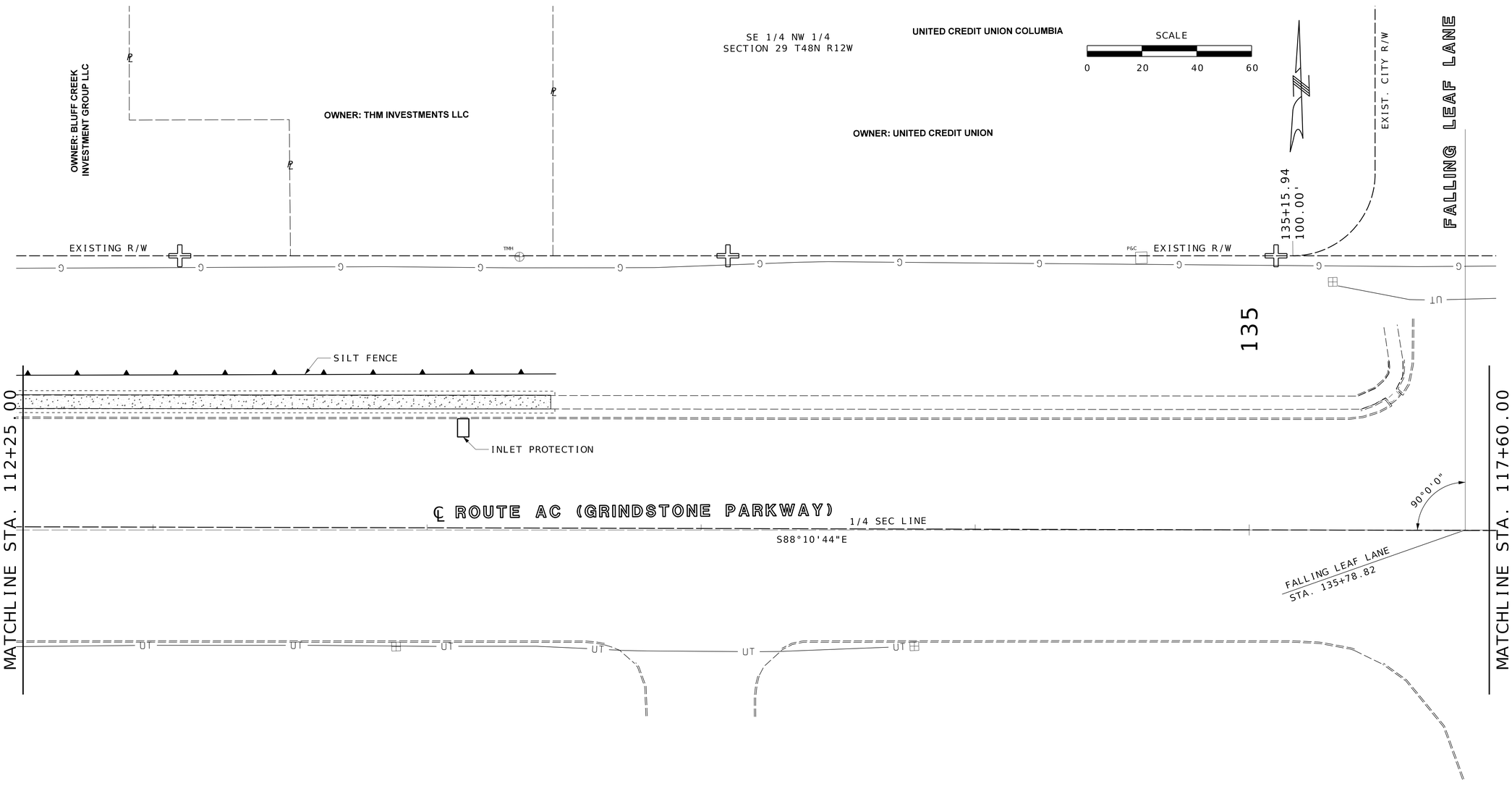
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MO Land Surveying Corp. # 2004004472
MO Engineering Corp. # 2004005918

EROSION CONTROL PLAN

SHEET 23 OF 25



1/5/2026

STATE OF MISSOURI
BENJAMIN A. ROSS
NUMBER E-30054
REGISTERED PROFESSIONAL ENGINEER

BENJAMIN A. ROSS
REGISTERED PROFESSIONAL ENGINEER E-30054

DATE PREPARED
1/5/2026

ROUTE	STATE
AC	MO
DISTRICT	SHEET NO.
CD	65

COUNTY
BOONE

JOB NO.
JCD0123

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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MO Engineering Corp. # 2004005918

EROSION CONTROL PLAN

SHEET 24 OF 25

SE 1/4 NW 1/4
SECTION 29 T48N R12W

PHILLIPS 66

OWNER: WESTERN OIL INC

EXIST. CITY R/W

136+41.94
100.00'

EXISTING R/W

1/4 SEC LINE

SW 1/4 NE 1/4
SECTION 29 T48N R12W

SCALE
0 20 40 60

140

MATCHLINE STA. 117+60.00

1/4 SEC LINE

1/4 SEC LINE

END PROJECT
STA. 140+91.75 ROUTE AC (GRINDSTONE PARKWAY)

℄ ROUTE AC (GRINDSTONE PARKWAY)

S88°10'44"E

1/4 SEC LINE

NE 1/4 SW 1/4
SECTION 29 T48N R12W

NW 1/4 SE 1/4
SECTION 29 T48N R12W

1/5/2026

STATE OF MISSOURI
BENJAMIN A. ROSS
NUMBER E-30054
REGISTERED PROFESSIONAL ENGINEER

BENJAMIN A. ROSS
REGISTERED PROFESSIONAL ENGINEER E-30054

DATE PREPARED
1/5/2026

ROUTE	STATE
AC	MO
DISTRICT	SHEET NO.
CD	66

COUNTY
BOONE

JOB NO.
JCD0123

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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JEFFERSON CITY, MO 65102
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EROSION CONTROL PLAN

SHEET 25 OF 25

Sign Spacing, Device Spacing and Channelizing Taper Lengths

SIGN SPACING (S) FOR ADVANCE SIGN SERIES (1) (2)				MINIMUM TAPER LENGTHS (L) FOR LANE WIDTHS (W)			MAXIMUM CHANNELIZER SPACING	
POSTED SPEED LIMIT (MPH)	UNDIVIDED HIGHWAYS	DIVIDED HIGHWAYS	LONGITUDINAL BUFFER SPACE (B)	10 FT	11 FT	12 FT	THROUGH TAPER	THROUGH WORK SPACE
0-35	200 (3)	200 (3)	250	205	225	245	20	40
40-45	350	500	360	450	495	540	40	80
50-55	500	1000	495	550	605	660	50	80
60-70	1000	SA-1000 SB-1500 SC-2640	730	700	770	840	60	120

NOTES:

DIMENSIONS IN FEET UNLESS OTHERWISE NOTED.

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

(2) SPACINGS MAY BE ADJUSTED AS NECESSARY TO MEET FIELD CONDITIONS AND VISIBILITY

(3) FOR URBAN LOW SPEED, MINIMUM RECOMMENDED SPACING IN MUTCD IS 100 FEET

TAPER LENGTH (L):

L = WS FOR 45 MPH OR MORE

$L = \frac{WS^2}{60}$ FOR 40 MPH OR LESS

FOR SHOULDER TAPER USE L/3

WHERE:

L = TAPER LENGTH IN FEET

W = LATERAL SHIFT IN FEET

S = POSTED SPEED IN MPH

TRAFFIC CONTROL DEVICES

GENERAL NOTES:

1. SEE STANDARD PLAN 616.10 FOR DETAILS AND ITEMS NOT SHOWN
2. EXISTING SIGNS SHALL BE COVERED DURING WORKING HOURS ONLY IF IN CONFLICT WITH TEMPORARY TRAFFIC CONTROL PLANS.
3. NO DIRECT PAYMENT WILL BE MADE FOR RELOCATING, COVERING, UNCOVERING OR REMOVING SIGNS.
4. CONES ALLOWABLE FOR DAYTIME OPERATIONS ONLY.
5. LOCATE FLASHING ARROW PANEL AT BEGINNING OF TAPER WHEN FEASIBLE, ARROW PANELS ARE ALWAYS LOCATED BEHIND CHANNELIZERS OR CONES.

TRAFFIC CONTROL LEGEND

- SIGN (SINGLE SIDED)
- SIGN (DOUBLE SIDED)
- FLAGGER
- DIRECTION INDICATOR BARRICADE
- CHANNELIZER
- TYPE 3 BARRICADE
- CHANGEABLE MESSAGE BOARD
- FLASHING ARROW BOARD
- TMA (TRUCK MOUNTED ATTENUATOR) WITH FLASHING ARROW BOARD

1/5/2026

STATE OF MISSOURI
BENJAMIN A. ROSS
NUMBER E-30054
REGISTERED PROFESSIONAL ENGINEER

BENJAMIN A. ROSS
REGISTERED PROFESSIONAL ENGINEER E-30054

DATE PREPARED
1/5/2026

ROUTE	STATE
AC	MO
DISTRICT	SHEET NO.
CD	67

COUNTY
BOONE

JOB NO.
JCD0123

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION	DATE

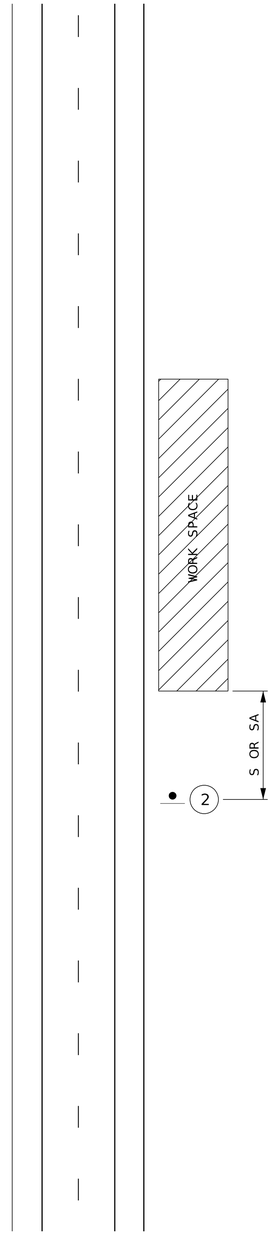
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

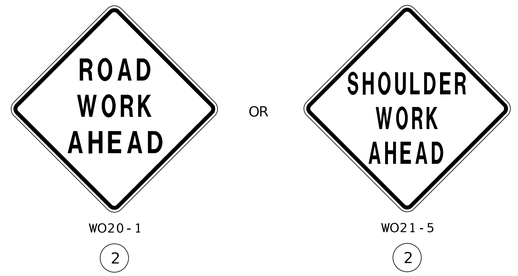
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MO Land Surveying Corp. # 2004006472
MO Engineering Corp. # 2004005918

TEMPORARY TRAFFIC CONTROL SHEET
SHEET 1 OF 12

NOT TO SCALE





SIGN SPACING (S) FOR ADVANCE SIGN SERIES (1) (2)				MINIMUM TAPER LENGTHS (L) FOR LANE WIDTHS (W)			MAXIMUM CHANNELIZER SPACING	
POSTED SPEED LIMIT (MPH)	UNDIVIDED HIGHWAYS	DIVIDED HIGHWAYS	LONGITUDINAL BUFFER SPACE (B)	10 FT	11 FT	12 FT	THROUGH TAPER	THROUGH WORK SPACE
0-35	200 (3)	200 (3)	250	205	225	245	20	40
40-45	350	500	360	450	495	540	40	80
50-55	500	1000	495	550	605	660	50	80
60-70	1000	SA-1000 SB-1500 SC-2640	730	700	770	840	60	120

NOTES:

DIMENSIONS IN FEET UNLESS OTHERWISE NOTED.

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

(2) SPACINGS MAY BE ADJUSTED AS NECESSARY TO MEET FIELD CONDITIONS AND VISIBILITY

(3) FOR URBAN LOW SPEED, MINIMUM RECOMMENDED SPACING IN MUTCD IS 100 FEET

WORK BEYOND THE SHOULDER

(UNDIVIDED OR DIVIDED HIGHWAY)

1/5/2026

STATE OF MISSOURI
BENJAMIN A. ROSS
NUMBER E-30054
REGISTERED PROFESSIONAL ENGINEER

BENJAMIN A. ROSS
REGISTERED PROFESSIONAL ENGINEER E-30054

DATE PREPARED
1/5/2026

ROUTE	STATE
AC	MO

DISTRICT	SHEET NO.
CD	68

COUNTY
BOONE

JOB NO.
JCD0123

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DATE	DESCRIPTION

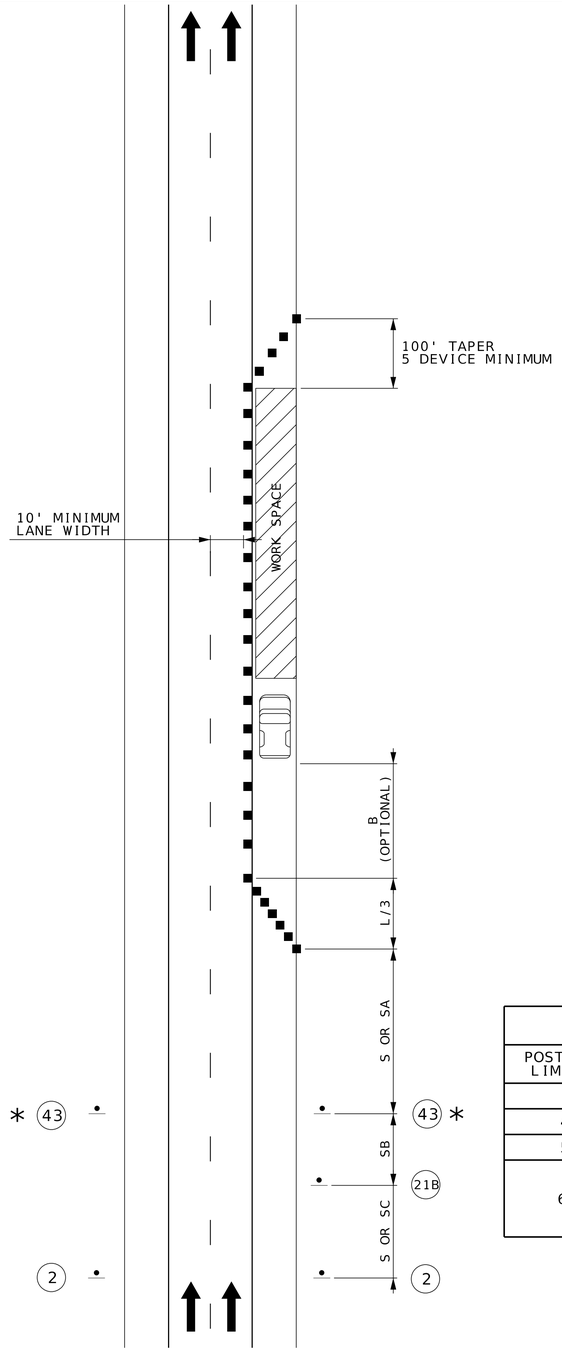
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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MO Land Surveying Corp. # 2004004672
MO Engineering Corp. # 2004005918

TEMPORARY TRAFFIC CONTROL SHEET
SHEET 2 OF 12

NOT TO SCALE



SHOULDER WORK

WITH MINOR ENCROACHMENT



WO20-1

(2)



WO21-5

(21B)



WO5-1



(PLAQUE NOT USED IF LESS THAN ONE MILE.)

WO7-3a

(43) * OMIT SIGN 43 FOR NO TRAVELWAY ENCROACHMENT AND OMIT IF TRAFFIC CONTROL IS INSTALLED FOR 3 DAYS OR LESS.

SIGN SPACING (S) FOR ADVANCE SIGN SERIES (1) (2)				MINIMUM TAPER LENGTHS (L) FOR LANE WIDTHS (W)			MAXIMUM CHANNELIZER SPACING	
POSTED SPEED LIMIT (MPH)	UNDIVIDED HIGHWAYS	DIVIDED HIGHWAYS	LONGITUDINAL BUFFER SPACE (B)	10 FT	11 FT	12 FT	THROUGH TAPER	THROUGH WORK SPACE
0-35	200	200	250	205	225	245	20	40
40-45	350	500	360	450	495	540	40	80
50-55	500	1000	495	550	605	660	50	80
60-70	1000	SA-1000 SB-1500 SC-2640	730	700	770	840	60	120

NOTES:

DIMENSIONS IN FEET UNLESS OTHERWISE NOTED.

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

(2) SPACINGS MAY BE ADJUSTED AS NECESSARY TO MEET FIELD CONDITIONS AND VISIBILITY

(3) FOR URBAN LOW SPEED, MINIMUM RECOMMENDED SPACING IN MUTCD IS 100 FEET

1/5/2026

STATE OF MISSOURI
BENJAMIN A. ROSS
NUMBER E-30054
REGISTERED PROFESSIONAL ENGINEER

BENJAMIN A. ROSS
REGISTERED PROFESSIONAL ENGINEER E-30054

DATE PREPARED
1/5/2026

ROUTE	STATE
AC	MO
DISTRICT	SHEET NO.
CD	69

COUNTY
BOONE

JOB NO.
JCD0123

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

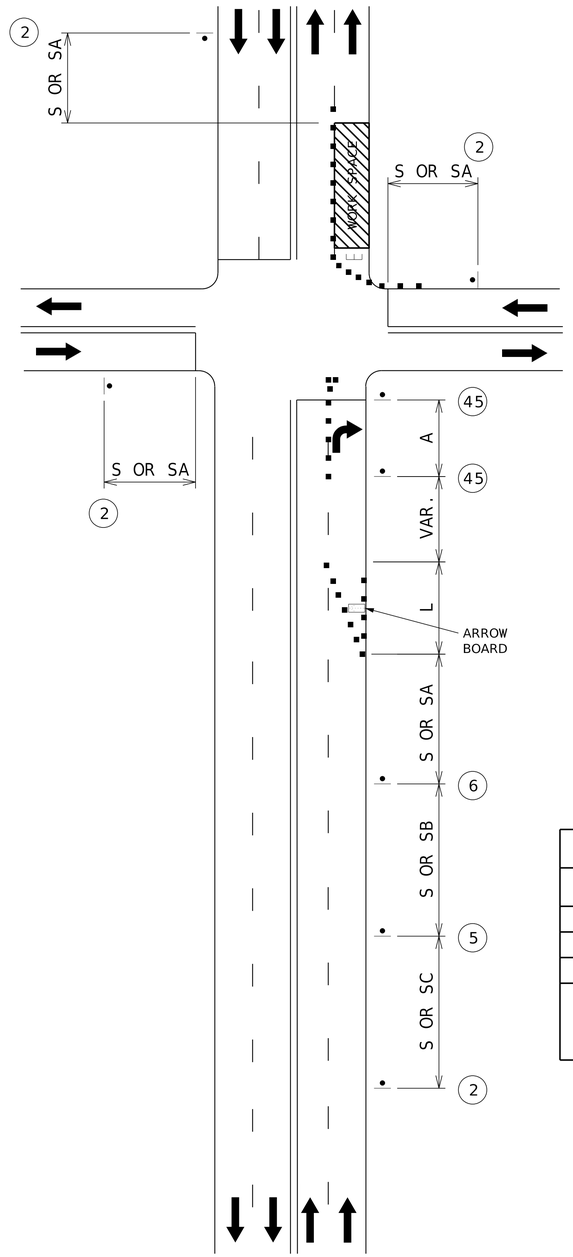
DESCRIPTION	DATE

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

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TEMPORARY TRAFFIC CONTROL SHEET
SHEET 3 OF 12

NOT TO SCALE



RIGHT LANE CLOSURE ON
FAR SIDE OF INTERSECTION



WO20-1

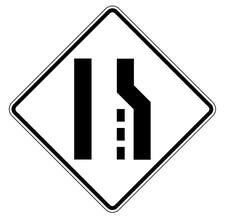
2



WO20-5

5

CENTER
OR
LEFT



W4-2R

6



R3-7R

45

SIGN SPACING (S) FOR ADVANCE SIGN SERIES (1) (2)				MINIMUM TAPER LENGTHS (L) FOR LANE WIDTHS (W)			MAXIMUM CHANNELIZER SPACING	
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50-55	500	1000	495	550	605	660	50	80
60-70	1000	SA-1000 SB-1500 SC-2640	730	700	770	840	60	120

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(3) FOR URBAN LOW SPEED, MINIMUM RECOMMENDED SPACING IN MUTCD IS 100 FEET

1/5/2026

STATE OF MISSOURI
BENJAMIN A. ROSS
NUMBER E-30054
REGISTERED PROFESSIONAL ENGINEER

Benjamin A. Ross

BENJAMIN A. ROSS
REGISTERED PROFESSIONAL ENGINEER E-30054

DATE PREPARED
1/5/2026

ROUTE	STATE
AC	MO
DISTRICT	SHEET NO.
CD	70

COUNTY
BOONE

JOB NO.
JCD0123

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION	DATE

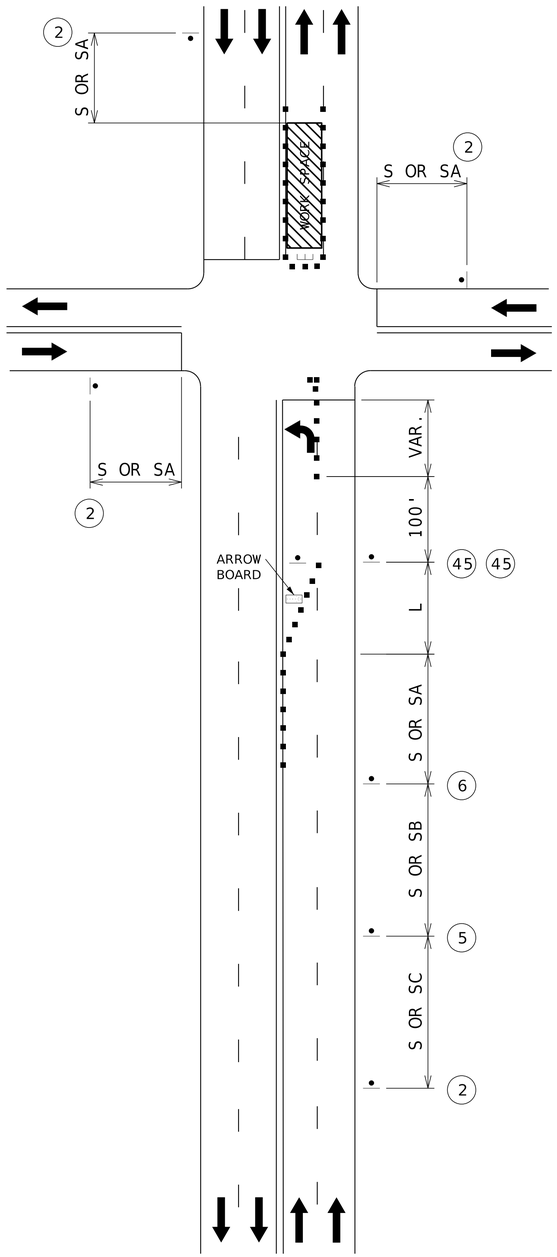
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105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

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MO Engineering Corp. # 2004005918

TEMPORARY TRAFFIC CONTROL SHEET
SHEET 4 OF 12

NOT TO SCALE



LEFT LANE CLOSURE ON
FAR SIDE OF INTERSECTION



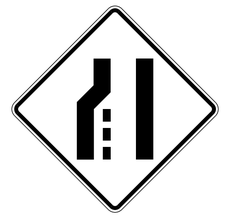
WO20-1

(2)



WO20-5

(5)



W4-2L

(6)



R3-7L

(45)

SIGN SPACING (S) FOR ADVANCE SIGN SERIES (1) (2)				MINIMUM TAPER LENGTHS (L) FOR LANE WIDTHS (W)			MAXIMUM CHANNELIZER SPACING	
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(3) FOR URBAN LOW SPEED, MINIMUM RECOMMENDED SPACING IN MUTCD IS 100 FEET

1/5/2026

STATE OF MISSOURI
BENJAMIN A. ROSS
NUMBER E-30054
REGISTERED PROFESSIONAL ENGINEER

BENJAMIN A. ROSS
REGISTERED PROFESSIONAL ENGINEER E-30054

DATE PREPARED
1/5/2026

ROUTE	STATE
AC	MO
DISTRICT	SHEET NO.
CD	71

COUNTY
BOONE

JOB NO.
JCD0123

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DATE	DESCRIPTION

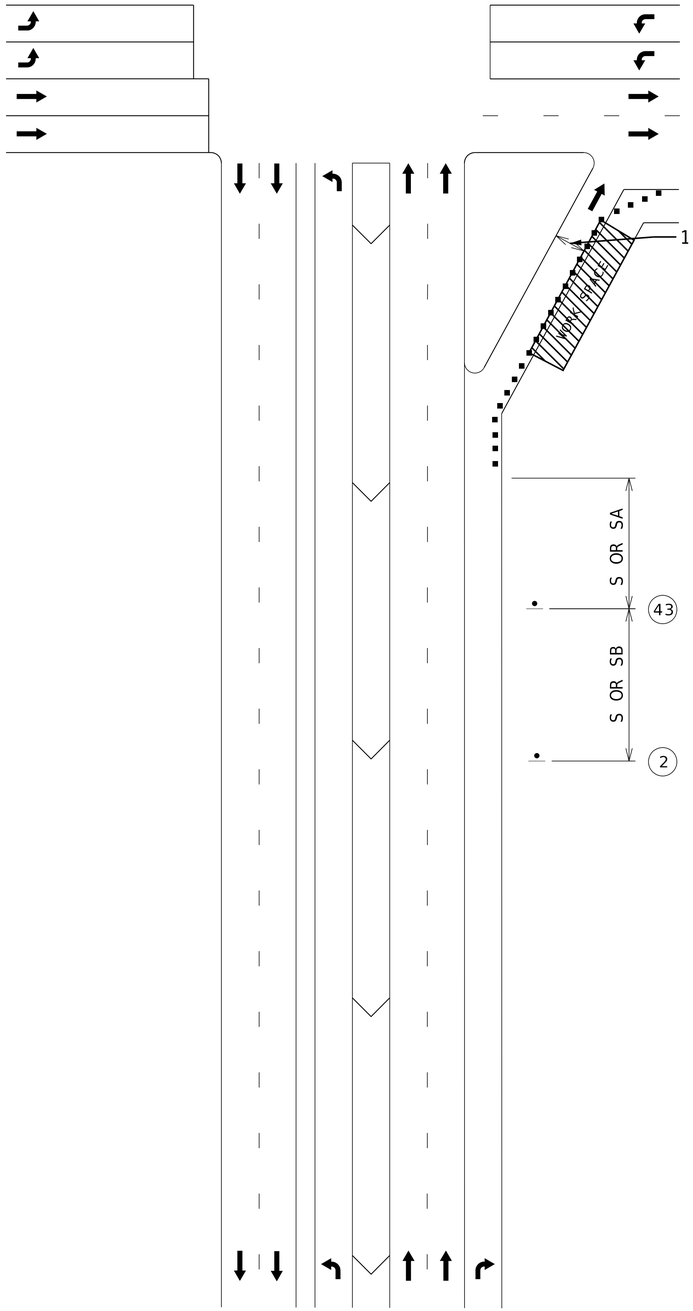
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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

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DELIVERING YOUR VISION™
1113 Fay Street, Columbia, MO 65201
573-445-9853 www.essmo.com
MO Land Surveying Corp. # 2004004672
MO Engineering Corp. # 2004005918

TEMPORARY TRAFFIC CONTROL SHEET
SHEET 5 OF 12

NOT TO SCALE



TURN LANE
MINOR ENCROACHMENT



BRIDGE
OR
RAMP

WO20-1

(2)



BRIDGE
OR
RAMP

WO5-1



WO7-3a

(PLAQUE NOT USED IF LESS THAN ONE MILE.)

(43) *OMIT SIGN 43 FOR NO TRAVELWAY ENCROACHMENT.

SIGN SPACING (S) FOR ADVANCE SIGN SERIES (1) (2)				MINIMUM TAPER LENGTHS (L) FOR LANE WIDTHS (W)			MAXIMUM CHANNELIZER SPACING	
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1/5/2026

STATE OF MISSOURI
BENJAMIN A. ROSS
NUMBER E-30054
REGISTERED PROFESSIONAL ENGINEER

BENJAMIN A. ROSS
REGISTERED PROFESSIONAL ENGINEER E-30054

DATE PREPARED
1/5/2026

ROUTE	STATE
AC	MO
DISTRICT	SHEET NO.
CD	72

COUNTY
BOONE

JOB NO.
JCD0123

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION	DATE

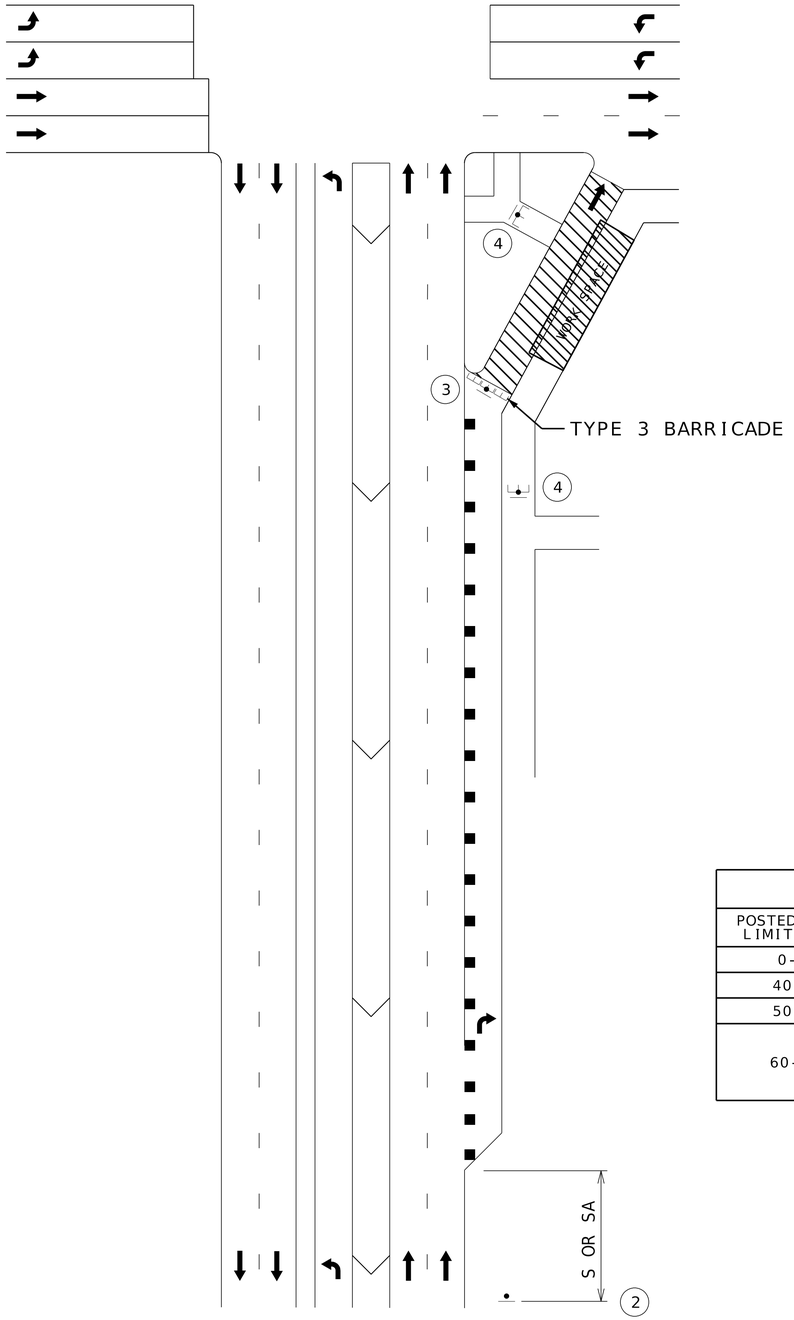
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JEFFERSON CITY, MO 65102
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MO Engineering Corp. # 2004005918

TEMPORARY TRAFFIC CONTROL SHEET
SHEET 6 OF 12

NOT TO SCALE



TURN LANE CLOSED



WO20-1

(2)





R9-9

(4) *SIDEWALK CLOSED ON ADA BARRICADE



R11-2

(3)

SIGN SPACING (S) FOR ADVANCE SIGN SERIES (1) (2)				MINIMUM TAPER LENGTHS (L) FOR LANE WIDTHS (W)			MAXIMUM CHANNELIZER SPACING	
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1/5/2026

STATE OF MISSOURI
BENJAMIN A. ROSS
NUMBER E-30054
REGISTERED PROFESSIONAL ENGINEER

BENJAMIN A. ROSS
REGISTERED PROFESSIONAL ENGINEER E-30054

DATE PREPARED
1/5/2026

ROUTE	STATE
AC	MO
DISTRICT	SHEET NO.
CD	73

COUNTY
BOONE

JOB NO.
JCD0123

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

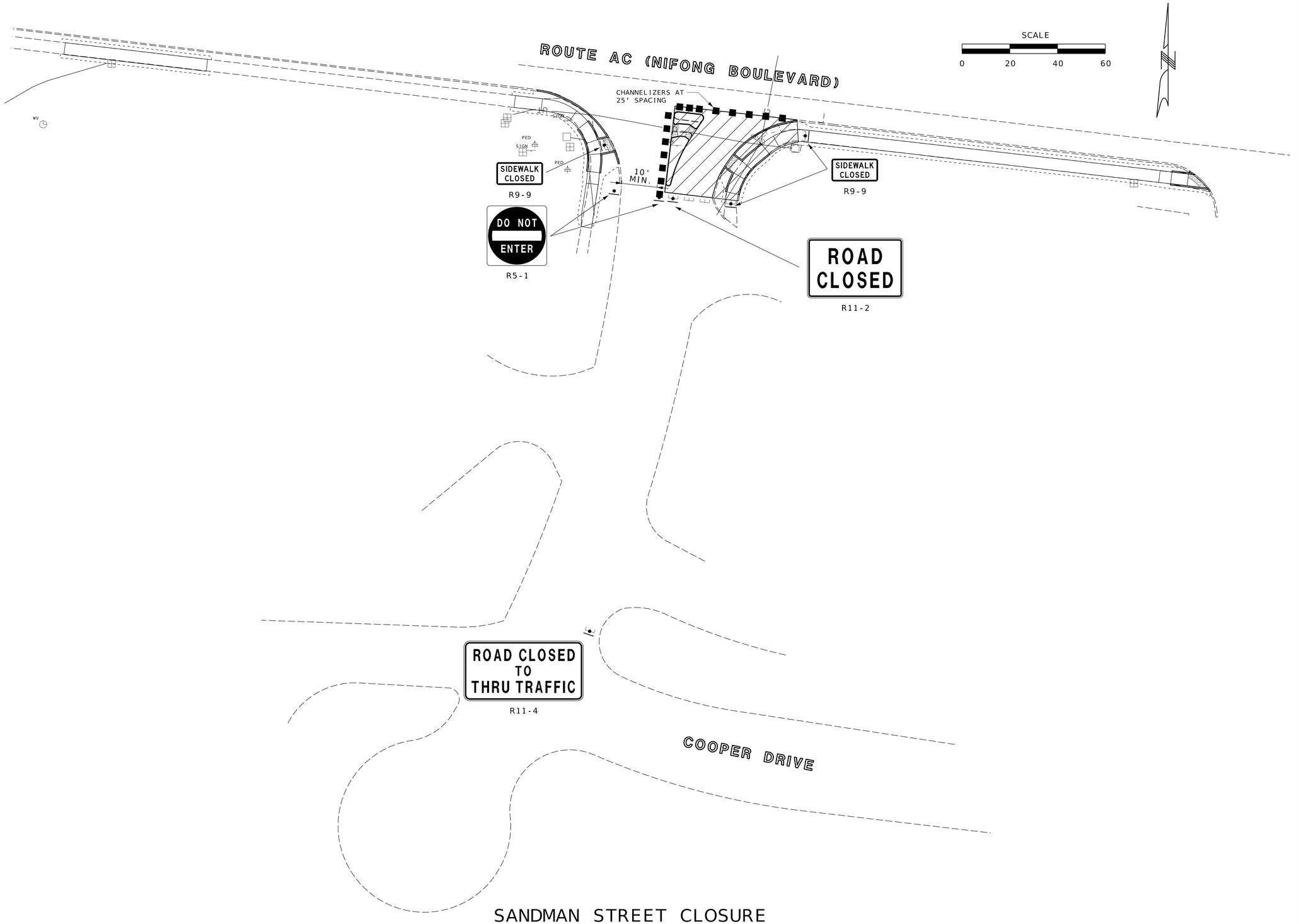
DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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

Engineering Surveys & Services
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MO Engineering Corp. # 2004005918

TEMPORARY TRAFFIC CONTROL SHEET
SHEET 7 OF 12



1/5/2026

STATE OF MISSOURI
BENJAMIN A. ROSS
NUMBER E-30054
REGISTERED PROFESSIONAL ENGINEER

BENJAMIN A. ROSS
REGISTERED PROFESSIONAL ENGINEER E-30054

DATE PREPARED
1/5/2026

ROUTE	STATE
AC	MO
DISTRICT	SHEET NO.
CD	74

COUNTY
BOONE

JOB NO.
JCD0123

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

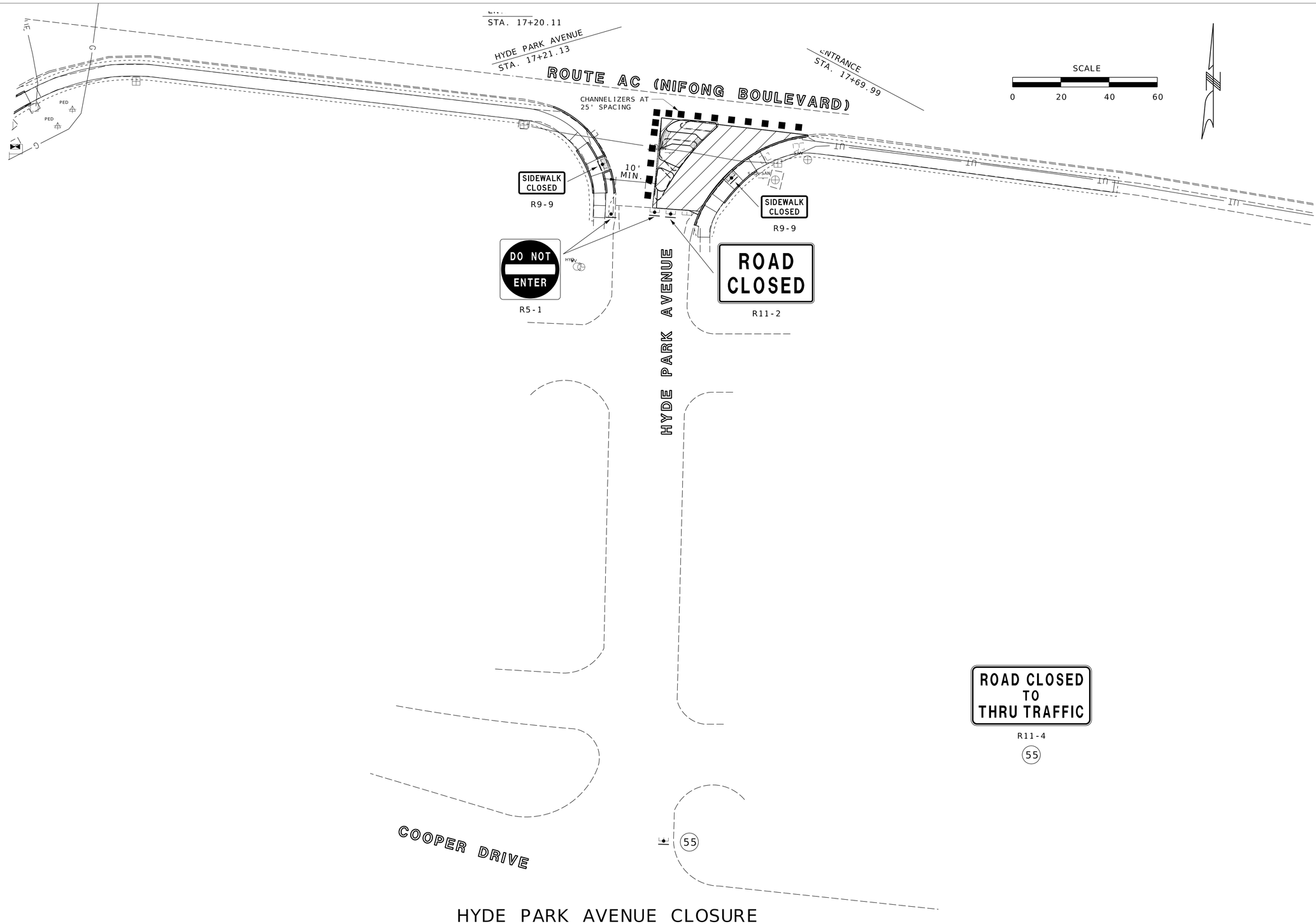
DESCRIPTION	DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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

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TEMPORARY TRAFFIC CONTROL SHEET
SHEET 8 OF 12



HYDE PARK AVENUE CLOSURE

1/5/2026

STATE OF MISSOURI
BENJAMIN A. ROSS
NUMBER E-30054
REGISTERED PROFESSIONAL ENGINEER

BENJAMIN A. ROSS
REGISTERED PROFESSIONAL ENGINEER E-30054

DATE PREPARED
1/5/2026

ROUTE	STATE
AC	MO
DISTRICT	SHEET NO.
CD	75

COUNTY
BOONE

JOB NO.
JCD0123

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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

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573.445.9853 www.essmo.com
MO Land Surveying Corp. # 2004004572
MO Engineering Corp. # 2004005918

TEMPORARY TRAFFIC CONTROL SHEET
SHEET 9 OF 12

SCALE
0 20 40 60

MATCHLINE STA. 101+55.00

℄ ROUTE AC (GRINDSTONE PARKWAY)

MATCHLINE STA. 106+90.00

S.L.

UT

G

STOP
R1-1
18

SIDEWALK CLOSED
R9-9

SIGN

℄ PONDEROSA STREET

10' MIN.

CHANNELIZERS 10' MAX SPACING

SIDEWALK CLOSED
R9-9

CSIGN

10' MIN.

100'

EXISTING R/W

EXISTING R/W

ROAD WORK AHEAD
WO20-1
2

2

1/5/2026

STATE OF MISSOURI
BENJAMIN A. ROSS
NUMBER E-30054
REGISTERED PROFESSIONAL ENGINEER
Benjamin A. Ross

BENJAMIN A. ROSS
REGISTERED PROFESSIONAL ENGINEER E-30054

DATE PREPARED
1/5/2026

ROUTE	STATE
AC	MO

DISTRICT	SHEET NO.
CD	76

COUNTY
BOONE

JOB NO.
JCD0123

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

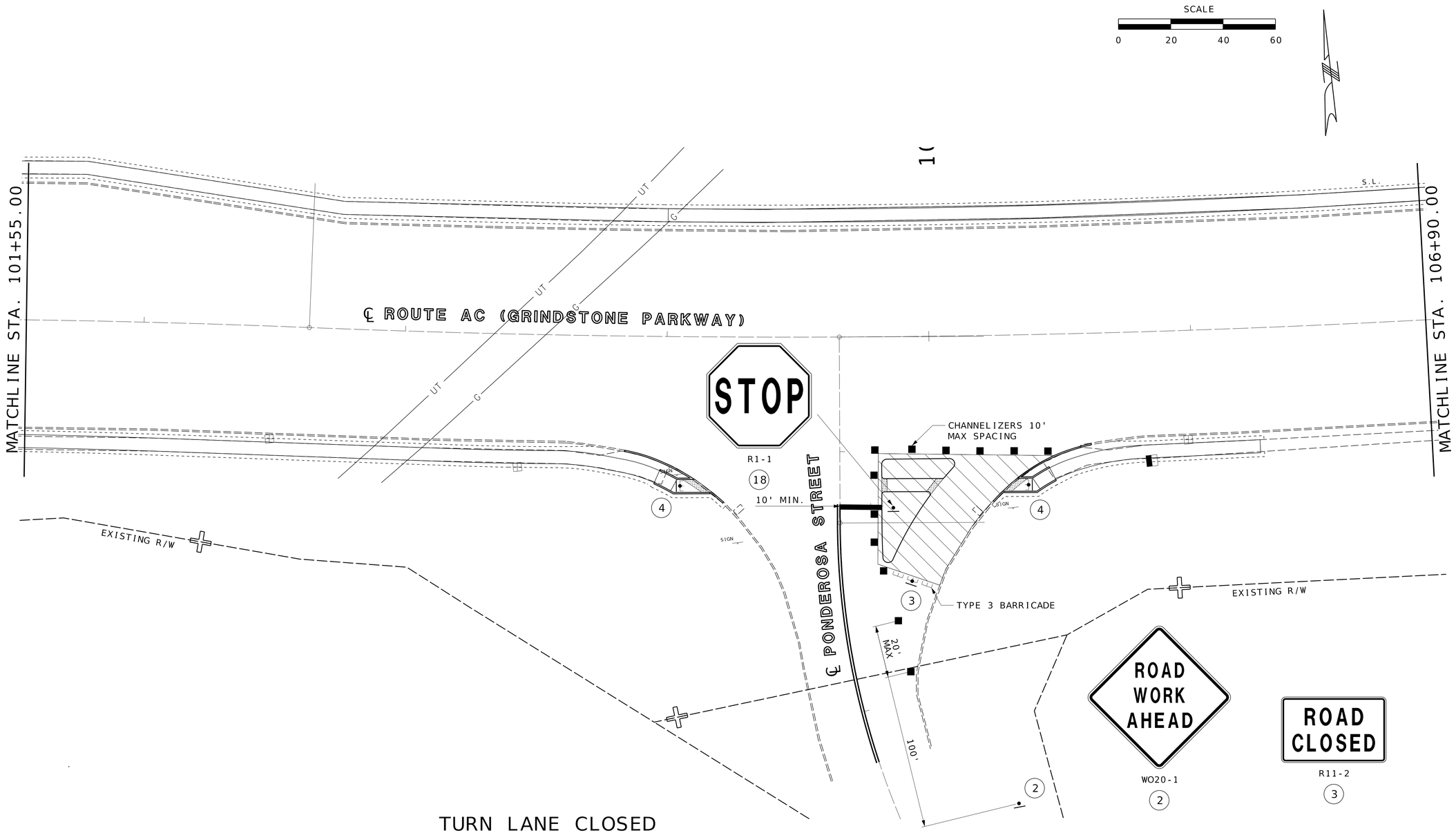
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TEMPORARY TRAFFIC CONTROL SHEET
SHEET 10 OF 12



TURN LANE CLOSED

SIGN SPACING (S) FOR ADVANCE SIGN SERIES (1) (2)				MINIMUM TAPER LENGTHS (L) FOR LANE WIDTHS (W)			MAXIMUM CHANNELIZER SPACING	
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NOTES:

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1/5/2026

STATE OF MISSOURI
BENJAMIN A. ROSS
NUMBER E-30054
REGISTERED PROFESSIONAL ENGINEER

BENJAMIN A. ROSS
REGISTERED PROFESSIONAL ENGINEER E-30054

DATE PREPARED
1/5/2026

ROUTE	STATE
AC	MO
DISTRICT	SHEET NO.
CD	77

COUNTY
BOONE

JOB NO.
JCD0123

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)

Engineering Surveys & Services
DELIVERING YOUR VISION™
1111 Fay Street, Columbia, MO 65201
573.445.9355 www.ess-mo.com
MO Land Surveying Corp. # 2004004472
MO Engineering Corp. # 2004005918

TEMPORARY TRAFFIC CONTROL SHEET
SHEET 11 OF 12

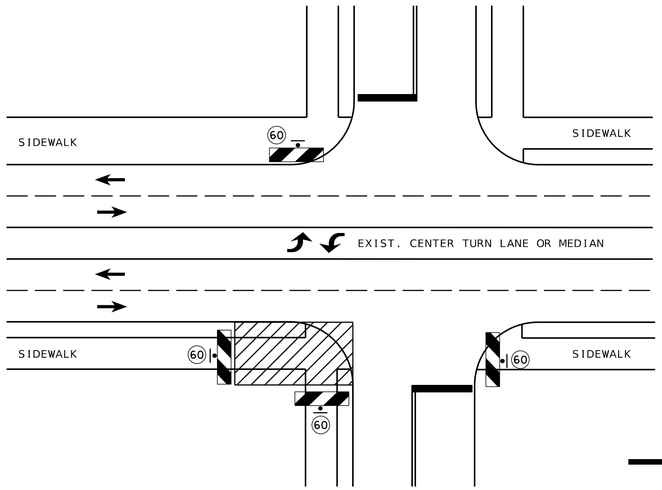
NOT TO SCALE

NOTES:

1. NO DIRECT PAYMENT WILL BE MADE FOR ORANGE SAFETY FENCE AS REQUIRED AROUND EXCAVATION OF SIDEWALK AND CURB RAMP AREAS.
2. SEE JSPs FOR PEDESTRIAN TRAFFIC CONTROL DEVICES.
3. WORKING AREAS SHALL BE GUARDED FROM PEDESTRIAN ACCESS BY BARRICADE FENCING 36" TO 48" TALL WITH A GAP NO GREATER THAN 6" FROM THE GROUND AND HOLES NO GREATER THAN 4" IN ANY DIRECTION.
4. PEDESTRIAN ACCESS ON SIDEWALK SHALL BE PROVIDED WITH A WIDTH NOT LESS THAN 4FT OF SMOOTH STABLE SURFACING ADJACENT TO BARRICADE FENCING FOR ACCESS TO BUILDINGS AS SHOWN BELOW.
5. SIDEWALK RAMP CLOSURES FOR RECONSTRUCTION SHALL BE PERFORMED WITH ADA COMPLIANT MOVEABLE BARRICADES. TWO BARRICADES PER PEDESTRIAN APPROACH, ONE SIDEWALK CLOSED SIGN WILL BE PLACED UPON ONE BARRICADE FOR EACH APPROACH, NO MORE THAN ONE 5FT SECTION OF SIDEWALK SHALL BE CLOSED LEADING TO BUILDINGS AT ANY TIME ADJACENT TO THE WORK AREA.

MULTI-LANE TYPICAL SIDEWALK CLOSURE

DRAWING NOT TO SCALE.



ORANGE SAFETY FENCE (NO DIRECT PAY)

ADA COMPLIANT MOVEABLE BARRICADE

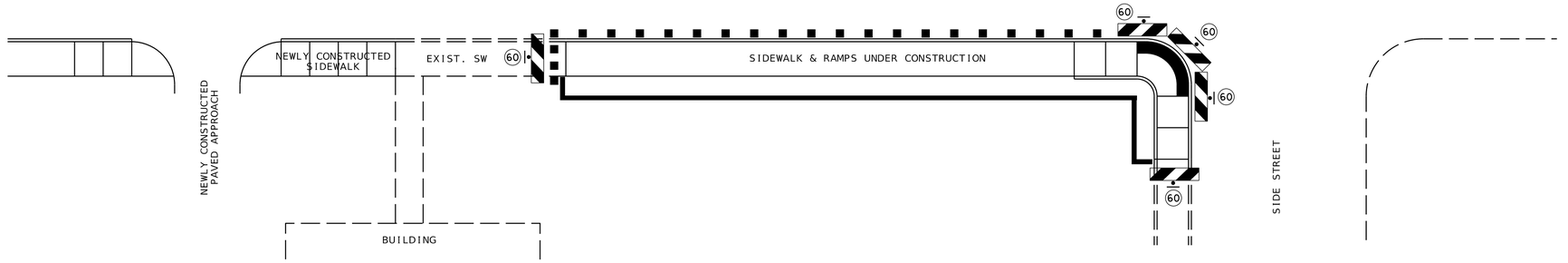
CHANNELIZER

SIDEWALK CLOSED
R9-9

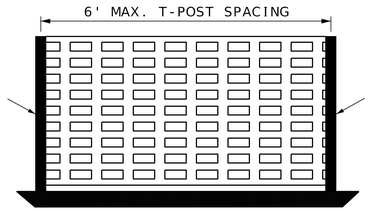
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TYPICAL SIDEWALK CLOSURE AT EXIST. BUILDING WITH EXIST. SIDEWALK

DRAWING NOT TO SCALE.

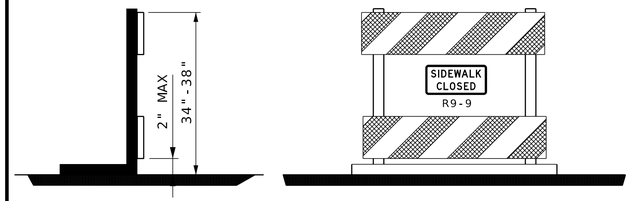


ORANGE PLASTIC SAFETY FENCE



NO DIRECT PAY. PLASTIC SAFETY NETTING USED FOR BARRICADE FENCING SHALL BE SUPPORTED WITH T-POST, ADEQUATE FOUNDATIONS, AND BALLAST SO THAT THE FENCE REMAINS TAUT AND IN AN UPRIGHT POSITION.

ADA COMPLIANT MOVEABLE BARRICADE



1. WARNING LIGHTS SHALL NOT BE ATTACHED TO ADA COMPLIANT BARRICADES.
2. CHEVRON RAILS ON THE ADA COMPLIANT BARRICADES MUST BE 8" WIDE MINIMUM AND MEET TYPE 3 RETRO-REFELCTIVE SHEETING AND COLOR CONTRAST BARRICADE RAILS AS SHOWN. THE TOP RAIL MUST PROVIDE A SMOOTH, CONTINUOUS RAIL SURFACE WITH NO SPLINTERS, BURRS OR SHARP EDGES. A MINIMUM OF TWO 8" WIDE RAILS IS REQUIRED.
3. NO TRIPPING HAZARDS FROM THE BARRICADES ARE ALLOWED WITHIN THE PEDESTRIAN SPACE. THIS MEANS NO FEET OR BARS USED TO HOLD THE RAILS OR SUPPORT THE DEVICE ARE ALLOWED WITHIN THE WALKWAY. ALL FEET AND BALLASTS WILL NEED TO BE BEHIND THE DEVICE.
4. THE BARRICADE MUST BE THE FULL WIDTH OF THE CLOSED SIDEWALK.

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1/5/2026
STATE OF MISSOURI
BENJAMIN A. ROSS
NUMBER E-30054
REGISTERED PROFESSIONAL ENGINEER
Benjamin A. Ross

BENJAMIN A. ROSS
REGISTERED PROFESSIONAL ENGINEER E-30054

DATE PREPARED
1/5/2026

ROUTE	STATE
AC	MO
DISTRICT	SHEET NO.
CD	78

COUNTY
BOONE

JOB NO.
JCD0123

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)

Engineering Surveys & Services
DELIVERING YOUR VISION™
1113 Fay Street, Columbia, MO 65201
573.449.4949 www.ess-mo.com
MO Land Surveying Corp. # 2004005672
MO Engineering Corp. # 2004005918

TEMPORARY TRAFFIC CONTROL SHEET
SHEET 12 OF 12

TRAFFIC SIGNALS LEGEND

- CONTROLLER
- EXISTING VIDEO DETECTOR
- EXISTING PUSH BUTTON DETECTOR
- PX — PUSH BUTTON DETECTOR WITH NUMBER
- XX — EXISTING SIGNAL HEAD WITH NUMBER
- XX — EXISTING PEDESTRIAN SIGNAL HEAD WITH NUMBER
- XX — PEDESTRIAN SIGNAL HEAD WITH NUMBER
- X — EXISTING PULL BOX WITH NUMBER
- (X) — EXISTING MAST ARM AND BASE WITH NUMBER
- EXISTING POWER SUPPLY
- (R) = REMOVE
- EXISTING LOOP DETECTOR
- CONDUIT EXISTING
- CONDUIT TRENCHED
- SPAN WIRE

BUTTONWOOD DR (NO SIGNALS)

STA 13+71.28 RTE AC=
STA 6+56.16 BUTTONWOOD DR

CONSTRUCT SIGNAL POST (8 FT) WITH APS PUSH BUTTON, COUNTDOWN PED. HEAD AND R10-3EL. INSTALL PUSH BUTTON EXTENDER IF REACH IS OVER 10".

CONSTRUCT PED PUSH BUTTON POST (4 FT) WITH APS PUSH BUTTON AND R10-3EL. INSTALL PUSH BUTTON EXTENDER IF REACH IS OVER 10".

INSTALL COUNTDOWN PED. HEAD ON EXISTING SIGNAL POST

REMOVE EXISTING PED. HEAD ON EXISTING SIGNAL POST

CONSTRUCT SIGNAL POST (8 FT) WITH COUNTDOWN PED. HEAD

EXIST LIMITED ACCESS R/W

EXISTING COUNTDOWN PED.HEAD ON EXISTING SIGNAL POST(UIP)

NEXT SIGNAL AT ROUTE 163 (PROVIDENCE RD) 1215 FT

REMOVE EXISTING PUSH BUTTON FROM EXISTING SIGNAL POST AND CONSTRUCT PED PUSH BUTTON POST (4 FT) WITH APS PUSH BUTTON, AND R10-3EL. INSTALL PUSH BUTTON EXTENDER IF REACH IS OVER 10".

CONSTRUCT PED PUSH BUTTON POST (4 FT) WITH APS PUSH BUTTON AND R10-3ER. INSTALL PUSH BUTTON EXTENDER IF REACH IS OVER 10".

(POSTED 35 MPH)
ROUTE AC (NIFONG BLVD)

EXISTING COUNTDOWN PED.HEAD ON EXISTING SIGNAL POST(UIP)

REMOVE EXISTING PUSH BUTTON FROM EXISTING SIGNAL POST AND CONSTRUCT PED PUSH BUTTON POST (4 FT) WITH APS PUSH BUTTON, AND R10-3ER. INSTALL PUSH BUTTON EXTENDER IF REACH IS OVER 10".

NEXT SIGNAL AT GREEN MEADOWS RD 1280 FT

REMOVE EXISTING PED. HEAD

CONSTRUCT PED PUSH BUTTON POST (4 FT) WITH APS PUSH BUTTON AND R10-3ER. INSTALL PUSH BUTTON EXTENDER IF REACH IS OVER 10".

EXIST LIMITED ACCESS R/W

CONSTRUCT SIGNAL POST (8 FT) WITH COUNTDOWN PED. HEAD

CONSTRUCT PED PUSH BUTTON POST (4 FT) WITH APS PUSH BUTTON AND R10-3EL. INSTALL PUSH BUTTON EXTENDER IF REACH IS OVER 10".

INSTALL COUNTDOWN PED. HEAD ON EXISTING SIGNAL POST

STA 13+94.34 RTE AC=
STA 6+56.16 BUTTONWOOD DR

EX SIGNAL CONTROLLER (UIP)

EX POWER SUPPLY (UIP)

EX LIGHTING CONTROLLER (UIP)

INSTALL APS PUSH BUTTON, COUNTDOWN PED. HEAD AND R10-3EL. ON EXISTING SIGNAL POLE. INSTALL PUSH BUTTON EXTENDER IF REACH IS OVER 10".

BUTTONWOOD DR (NO SIGNALS)

SCALE
0 20 40 60

SIGNAL PLAN SHEET
SHEET 1 OF 26

Kaskaskia Engineering Group, LLC

BRYAN C. DONZE
NUMBER PE-2023007176
STATE OF MISSOURI
PROFESSIONAL ENGINEER

DATE PREPARED: 01/05/2026

ROUTE	STATE
AC	MO
DISTRICT	SHEET NO.
CD	79

COUNTY: BOONE
JOB NO.: JCD0123
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)

TRAFFIC SIGNAL PLAN SHEET

ROUTE AC (NIFONG BLVD) & BUTTONWOOD DR COLUMBIA, MO

079_SG_01_JCD0123_I20.dgn 3:06:44 PM 1/2/2026

EFFECTIVE: 07/01/2018

| POST NUMBER | PULL BOX NUMBER | LOCATION APPROACH | LOCATION STATION | LOCATION OFFSET | BASE A 9 | BASE A 9.5 | BASE A 10 | BASE A 10.5 | BASE A 11 | BASE A 12 | BASE F 9 | BASE F 9.5 | BASE F 10 | BASE F 10.5 | BASE F 11 | BASE F 12 | BASE C CONCRETE** (CU. YDS.) | PULL BOX PREFORMED CLASS 1 | PREFORMED CLASS 2 | PREFORMED CLASS 3 | PREFORMED CLASS 5 | CONCRETE STANDARD | CONCRETE DOUBLE, TYPE A | CONCRETE DOUBLE, TYPE B | DRAIN TYPE* I | DRAIN TYPE* II A | DRAIN TYPE* II B | DRAIN TYPE* II C | POST TOP MOUNT POST 4 FT. | POST TOP MOUNT POST 8 FT. | TYPE C & CL ARM LENGTH A | TYPE C & CL ARM LENGTH A | TYPE C & CL ARM LENGTH A | TYPE C & CL ARM LENGTH A | TYPE C & CL SIGNAL SPACING B | TYPE C & CL SIGNAL SPACING C | TYPE C & CL SIGNAL SPACING D | TYPE C & CL SIGNAL SPACING D' | TYPE C & CL SIGN SPACING B | TYPE C & CL SIGN SPACING C | TYPE C & CL SIGN SPACING D | TYPE C & CL SIGN SPACING D' | TYPE B & BL ARM LENGTH E | TYPE B & BL ARM LENGTH K | TYPE B & BL ARM LENGTH E | TYPE B & BL ARM LENGTH K | TYPE B & BL ARM LENGTH E | TYPE B & BL LEFT ARM E SIGNAL SPACING F | TYPE B & BL LEFT ARM E SIGNAL SPACING G | TYPE B & BL LEFT ARM E SIGNAL SPACING H | TYPE B & BL LEFT ARM E SIGNAL SPACING H' | TYPE B & BL LEFT ARM E SIGN SPACING F | TYPE B & BL LEFT ARM E SIGN SPACING G | TYPE B & BL LEFT ARM E SIGN SPACING H | TYPE B & BL LEFT ARM E SIGN SPACING H' | TYPE B & BL RIGHT ARM K SIGNAL SPACING L | TYPE B & BL RIGHT ARM K SIGNAL SPACING M | TYPE B & BL RIGHT ARM K SIGNAL SPACING N | TYPE B & BL RIGHT ARM K SIGNAL SPACING N' | TYPE B & BL RIGHT ARM K SIGN SPACING L | TYPE B & BL RIGHT ARM K SIGN SPACING M | TYPE B & BL RIGHT ARM K SIGN SPACING N | TYPE B & BL RIGHT ARM K SIGN SPACING N' | TYPE B & BL INCLUDED ANGLE | LUMINAIRE BRACKET ARM* 4 FT. | LUMINAIRE BRACKET ARM* 6 FT. | LUMINAIRE BRACKET ARM* 8 FT. | LUMINAIRE BRACKET ARM* 10 FT. | LUMINAIRE BRACKET ARM* 12 FT. | LUMINAIRE BRACKET ARM* 15 FT. |
|---|---|---

EFFECTIVE: 10-01-2015

SIGNAL PLAN SHEET
SHEET 3 OF 26

CONDUIT (WITH #14 TRACER WIRE)

FROM	TO	CENTER TO CENTER DISTANCE	LOOP DET.	TRENCH				PUSHED			MEDIAN			ON STRUCTURE			REMARKS
			1"	2"	3"	4"		2"	3"	4"	2"	3"	4"	2"	3"		
1A	2	28			29												
1B	2	15			16												
2A	3	22			23												
2B	3	28			29												
2C	3	35			36												
3A	4A	12			13												
4A	1	16			17												
4B	1	32			33												
4C	1	42			43												

EFFECTIVE 04-01-2018

POWER SUPPLY

LOCATION			POWER SUPPLY ASSEMBLY		CIRCUIT BREAKER TRIP RATING*				LIGHTING CONTROL * (ON POWER SUPPLY)		SERVICE POLE	
					CONTROLLER		POWER SUPPLY DISCONNECT					
APPROACH	STATION	OFFSET	DRAWING 902.15	DRAWING	AUXILIARY BREAKER	CONT & SIGNAL LAMPS	MAIN BREAKER		120 VOLT CONTROL CABINET	MAIN BREAKER	CONTRACT FURNISH	UTILITY COMPANY
							SIGNALS	LIGHTING				
			Type		15 Amps	Amps	Amps	Amps		Amps	Cl. Ft.	
			Type		15 Amps	Amps	Amps	Amps		Amps	Cl. Ft.	

CONTROLLER ASSEMBLY AND AUXILIARY EQUIPMENT

LOCATION			SYSTEM MASTER (CLOSED LOOP)		ACTUATED		ON-OFF* SWITCH		COORDINATION INTERFACE *						TIME * CLOCK	NEMA CABINET TYPE *			170 CABINET TYPE *		170 SOFTWARE *	
							TYPE		12C/7C HARDWIRE (1)		TIME BASE	CLOSED LOOP		FIBER								
APPROACH	STATION	OFFSET	NEMA	170	NEMA	170	I	II	MASTER	LOCAL		NEMA	170			E	EV	DOUBLE	332	336S	BITRAN	WAPITI

NEMA DETECTOR ASSIGNMENT

		CARD POSITION							
		1	2	3	4	5	6	7	8
CHANNEL	1				EXISTING				
	2								

TOTAL NUMBER OF DETECTOR CARDS(2-CHANNEL) = (2)

NEMA LOAD SWITCH ASSIGNMENTS

1	2	3	4	5	6	7	8	9	10	11	12
EXIST.	EXIST.	EXIST.	EXIST.	EXIST.	EXIST.	EXIST.	EXIST.	PED Ø2	EXIST.	PED Ø6	EXIST.

SIGNAL SIGNS

QUANTITY	MUTCD SIGN NUMBER	SIZE	AREA	SIGN TOTAL AREA ITEM NO. 90208.33	SIGNAL SIGN MOUNTING HARDWARE ITEM NO. 90208.34
		INCHES	SQ.FT.	SQ.FT.	EA.
	R10-10L	24 X 30	5.0		
	R10-10R	24 X 30	5.0		
	R3-5L	30 X 36	7.5		
	R3-5R	30 X 36	7.5		
	R3-5A	30 X 36	7.5		
	R3-6L	30 X 36	7.5		
	R3-6R	30 X 36	7.5		
	R3-2	24 X 24	4.0		
	R3-1	24 X 24	4.0		
	R3-3	24 X 24	4.0		
	D3-1 ***	VAR. X 18			
	D3-1B ***	VAR. X 18			
	R10-3E	9 X 15	0.9		
	R10-11A	24 X 30	5.0		
	R10-13	36 X 24	6.0		
	R10-27A	30 X 36	7.5		
5	R10-3EL	9 X 15	0.9	4.5	5
3	R10-3ER	9 X 15	0.9	2.7	3
			SUBTOTAL	8	8
			TOTAL	8	8

DETECTOR SCHEDULE

DETECTOR NUMBER	APPROACH	TYPE				
		APS PUSH BUTTON	INDUCTION LOOP (2)			VIDEO
			STANDARD	DELAY/ EXTEND *	CALL UNIT *	
P3	SB BUTTONWOOD	1				
P2	EB ROUTE AC	1				
P8	SB BUTTONWOOD	1				
P1	WB ROUTE AC	1				
P6	WB ROUTE AC	1				
P7	NB BUTTONWOOD	1				
P4	NB BUTTONWOOD	1				
P5	EB ROUTE AC	1				
TOTAL		8				

QUANTITIES INCLUDE 8 PUSH BUTTON EXTENDERS IF REACH EXCEEDS 10"

170 INPUT FILE ASSIGNMENTS

	CHANNEL	1	2	3	4	5	6	7	8	9	10	11	12	13	14
"I"	U														
	L														
"J"	U														
	L														

TOTAL NUMBER OF DETECTOR CARDS(2-CHANNEL) = (2)

* ITEMS FOR WHICH SEPARATE PAYMENT WILL NOT BE MADE.

*** USE D3-1 FOR ONE LINE. USE D3-1B FOR TWO LINE.

(1) MoDOT "D" PLUG SHALL BE WIRED INTO ALL NEMA CONTROLLERS WITH 7C HARDWIRE INTERCONNECT.

(2) PAYMENT IS MADE FOR THE NUMBER OF 2-CHANNEL DETECTOR CARDS AS SHOWN BELOW THE ASSIGNMENT CHART.

170 OUTPUT FILE ASSIGNMENTS

FR1								MONITOR
FR2								
FR3								
FR4								

170 AUXILIARY OUTPUT FILE

FR5							X
FR6							

SIGNAL PLAN SHEET
SHEET 4 OF 26

ROUTE AC & BUTTONWOOD DR
INTERSECTION

D-37C

BRYAN C. DONZE
NUMBER PE-2023007176
PROFESSIONAL ENGINEER
STATE OF MISSOURI

DATE PREPARED 01/05/2026
ROUTE AC | STATE MO
DISTRICT CD | SHEET NO. 82
COUNTY BOONE
JOB NO. JCD0123
CONTRACT ID.
PROJECT NO.
BRIDGE NO.

DESCRIPTION | DATE

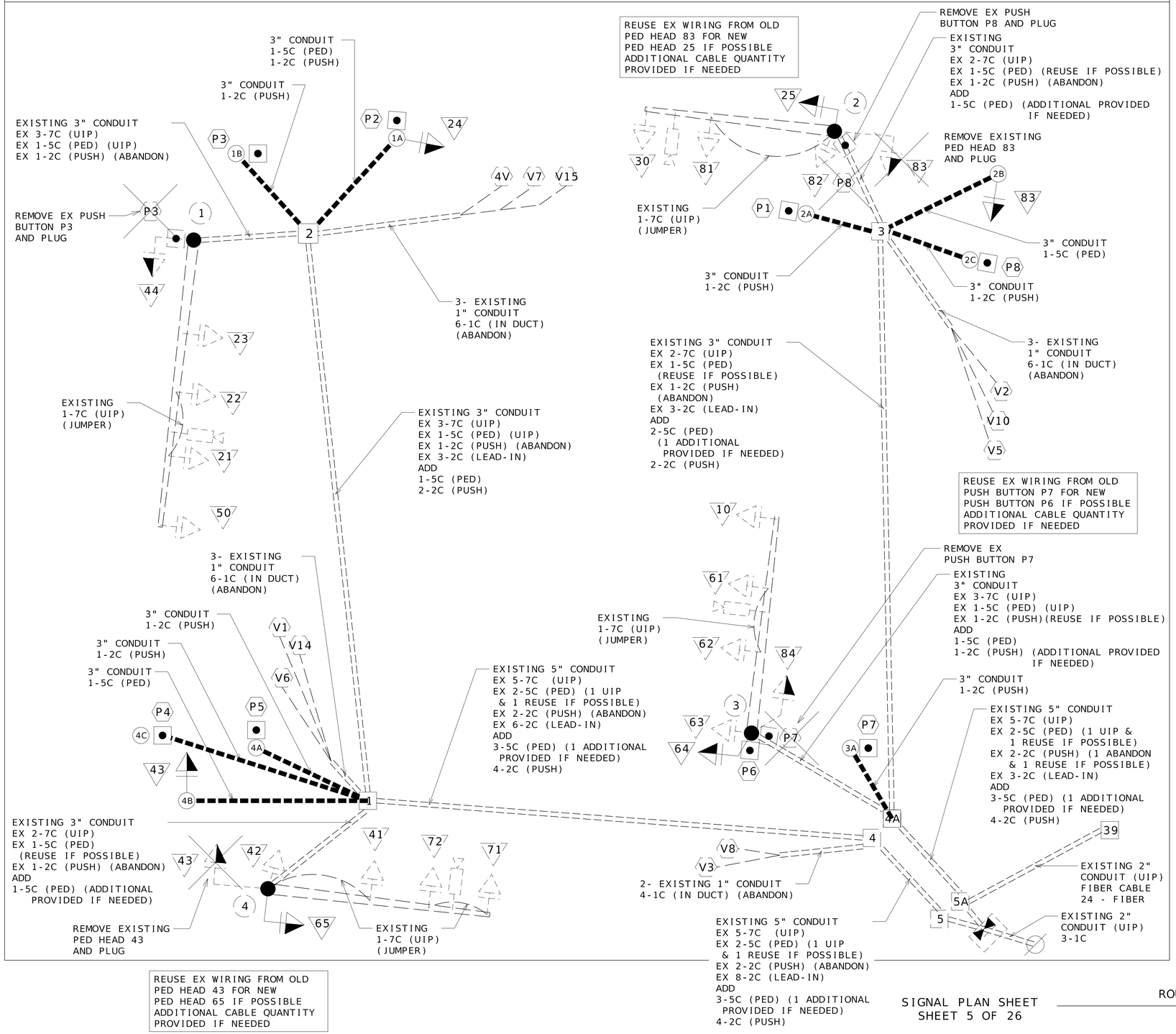
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

D37C - POWER SUPPLY/ CONTROLLER

ROUTE AC (NIFONG BLVD) & BUTTONWOOD DR
COLUMBIA, MO

EFFECTIVE 12-01-17

WIRING DIAGRAM



LEGEND

3"	CONDUIT CONTAINING CABLE WITH SIZE
	CABLE
X-Xc	MULTI-CONDUCTOR CABLE #16 AWG (UNLESS OTHERWISE INDICATED)
LIC	#14 AWG DETECTOR LEAD-IN CABLE (2C TWISTED SHIELDED)
X	PULL BOX WITH NUMBER
X	POST WITH NUMBER
X	POST WITH MAST ARM
X	POST WITH MAST ARM AND LUMINAIRE
X	DETECTOR WITH NUMBER
X	SIGNAL HEAD WITH NUMBER
	SIGNAL CONTROLLER
	POWER SUPPLY
	LIGHTING CONTROLLER

1. REMOVE EXISTING PUSH BUTTONS AND REPLACE WITH APS BUTTONS ON EXISTING SIGNAL POSTS
2. EXISTING COUNTDOWN PED HEADS ON EXISTING SIGNAL POSTS (UIP)
3. INSTALL APS PUSH BUTTONS AND COUNTDOWN PED HEADS ON EXISTING SIGNAL POSTS (SEE PLAN FOR LOCATIONS)
4. CONSTRUCT PED PUSH BUTTON POST (4 FT) WITH APS PUSH BUTTONS (SEE PLAN FOR LOCATIONS)
5. CONSTRUCT SIGNAL POST (8 FT) WITH COUNTDOWN PED. HEADS. (SEE PLAN FOR LOCATIONS)

SIGNAL PLAN SHEET
SHEET 5 OF 26

ROUTE AC (NIFONG BLVD) & BUTTONWOOD DR

INTERSECTION

D-37D

BRYAN C. DONZE
NUMBER PE-2023007176
PROFESSIONAL ENGINEER
STATE OF MISSOURI

DATE PREPARED
01/05/2026

ROUTE	STATE
AC	MO
DISTRICT	SHEET NO.
CD	83

COUNTY
BOONE

JOB NO.
JCD0123

CONTRACT ID.

PROJECT NO.

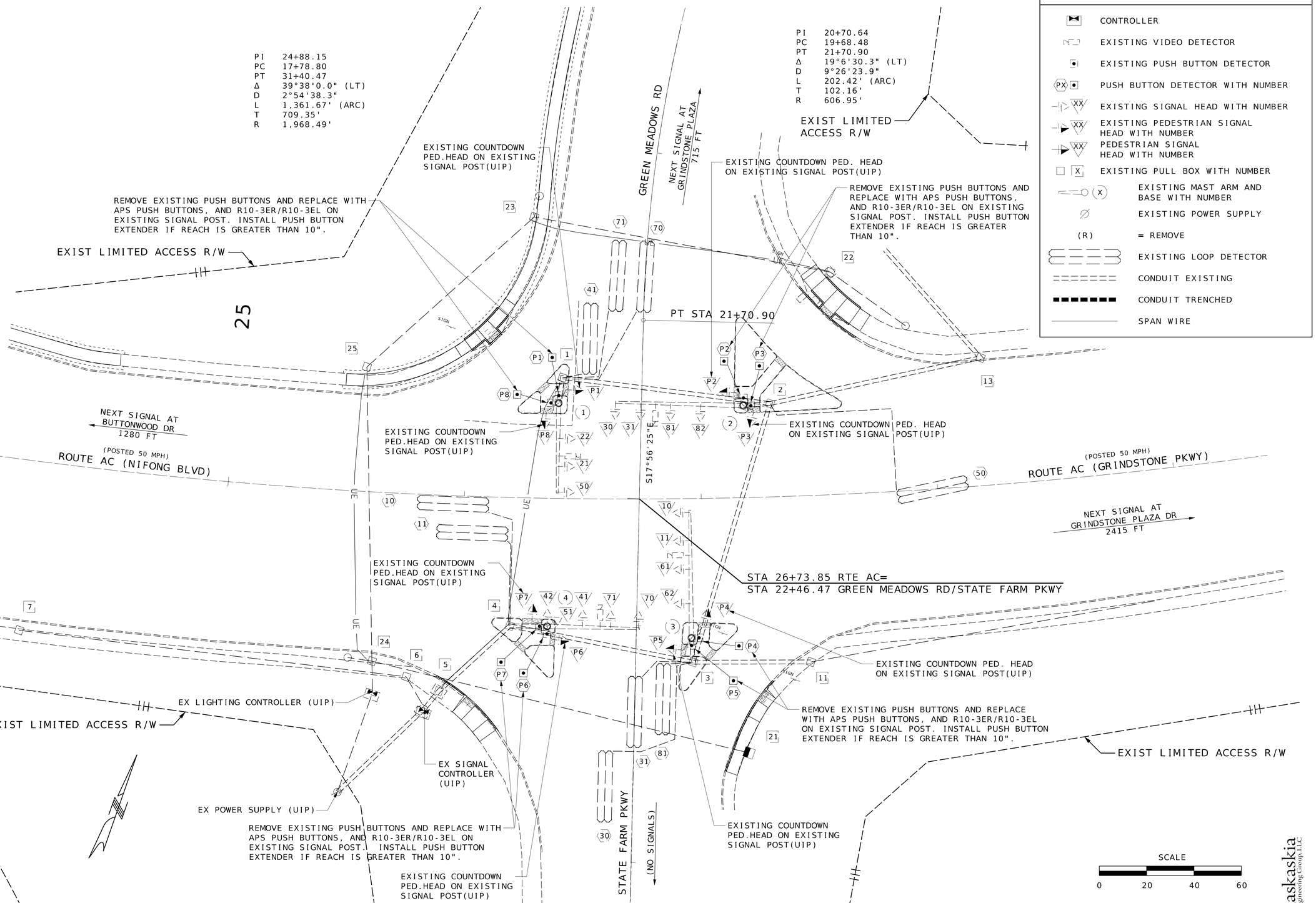
BRIDGE NO.

DESCRIPTION	DATE

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

D37D - WIRING DIAGRAM

ROUTE AC (NIFONG BLVD) & BUTTONWOOD DR
COLUMBIA, MO



TRAFFIC SIGNALS LEGEND

- CONTROLLER
- EXISTING VIDEO DETECTOR
- EXISTING PUSH BUTTON DETECTOR
- PUSH BUTTON DETECTOR WITH NUMBER
- EXISTING SIGNAL HEAD WITH NUMBER
- EXISTING PEDESTRIAN SIGNAL HEAD WITH NUMBER
- PEDESTRIAN SIGNAL HEAD WITH NUMBER
- EXISTING PULL BOX WITH NUMBER
- EXISTING MAST ARM AND BASE WITH NUMBER
- EXISTING POWER SUPPLY
- (R) = REMOVE
- EXISTING LOOP DETECTOR
- CONDUIT EXISTING
- CONDUIT TRENCHED
- SPAN WIRE

BRYAN C. DONZE
NUMBER PE-2023007176
PROFESSIONAL ENGINEER
STATE OF MISSOURI

DATE PREPARED
01/05/2026

ROUTE	STATE
AC	MO
DISTRICT	SHEET NO.
CD	84

COUNTY
BOONE

JOB NO.
JCD0123

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)

TRAFFIC SIGNAL PLAN SHEET

ROUTE AC (NIFONG BLVD) & GREEN MEADOWS RD COLUMBIA, MO

Kaskaskia Engineering Group, LLC

EFFECTIVE 04-01-2018

POWER SUPPLY

LOCATION			POWER SUPPLY ASSEMBLY		CIRCUIT BREAKER TRIP RATING*				LIGHTING CONTROL * (ON POWER SUPPLY)		SERVICE POLE	
					CONTROLLER		POWER SUPPLY DISCONNECT					
APPROACH	STATION	OFFSET	DRAWING 902.15	DRAWING	AUXILIARY BREAKER	CONT & SIGNAL LAMPS	MAIN BREAKER		120 VOLT CONTROL CABINET	MAIN BREAKER	CONTRACT FURNISH	UTILITY COMPANY
							SIGNALS	LIGHTING				
			Type		15 Amps	Amps	Amps	Amps		Amps	Cl. Ft.	
			Type		15 Amps	Amps	Amps	Amps		Amps	Cl. Ft.	

CONTROLLER ASSEMBLY AND AUXILIARY EQUIPMENT

LOCATION			SYSTEM MASTER (CLOSED LOOP)		ACTUATED		ON-OFF* SWITCH		COORDINATION INTERFACE *						TIME * CLOCK	NEMA CABINET TYPE *			170 CABINET TYPE *		170 SOFTWARE *	
							TYPE		12C/7C HARDWIRE (1)		TIME BASE	CLOSED LOOP		FIBER								
APPROACH	STATION	OFFSET	NEMA	170	NEMA	170	I	II	MASTER	LOCAL		NEMA	170			E	EV	DOUBLE	332	336S	BITRAN	WAPITI

NEMA DETECTOR ASSIGNMENT

		CARD POSITION							
		1	2	3	4	5	6	7	8
CHANNEL	1								
	2								

EXISTING

TOTAL NUMBER OF DETECTOR CARDS(2-CHANNEL) = (2)

NEMA LOAD SWITCH ASSIGNMENTS

1	2	3	4	5	6	7	8	9	10	11	12
EXIST.	EXIST.	EXIST.	EXIST.	EXIST.	EXIST.	EXIST.	EXIST.	EXIST.	EXIST.	EXIST.	EXIST.

SIGNAL SIGNS

QUANTITY	MUTCD SIGN NUMBER	SIZE	AREA	SIGN TOTAL AREA ITEM NO. 90208.33	SIGNAL SIGN MOUNTING HARDWARE ITEM NO. 90208.34
		INCHES	SQ.FT.	SQ.FT.	EA.
	R10-10L	24 X 30	5.0		
	R10-10R	24 X 30	5.0		
	R3-5L	30 X 36	7.5		
	R3-5R	30 X 36	7.5		
	R3-5A	30 X 36	7.5		
	R3-6L	30 X 36	7.5		
	R3-6R	30 X 36	7.5		
	R3-2	24 X 24	4.0		
	R3-1	24 X 24	4.0		
	R3-3	24 X 24	4.0		
	D3-1 ***	VAR. X 18			
	D3-1B ***	VAR. X 18			
	R10-3E	9 X 15	0.9		
	R10-11A	24 X 30	5.0		
	R10-13	36 X 24	6.0		
	R10-27A	30 X 36	7.5		
4	R10-3EL	9 X 15	0.9	3.6	4
4	R10-3ER	9 X 15	0.9	3.6	4
			SUBTOTAL	7.2	8
			TOTAL	8	8

DETECTOR SCHEDULE

DETECTOR NUMBER	APPROACH	TYPE				
		APS PUSH BUTTON	INDUCTION LOOP (2)			VIDEO
			STANDARD	DELAY/ EXTEND *	CALL UNIT *	
P1	EB ROUTE AC	1				
P8	SB GREEN MEADOWS	1				
P2	WB ROUTE AC	1				
P3	SB GREEN MEADOWS	1				
P4	NB GREEN MEADOWS	1				
P5	WB ROUTE AC	1				
P6	EB ROUTE AC	1				
P7	NB GREEN MEADOWS	1				
TOTAL		8				

QUANTITIES INCLUDE 8 PUSH BUTTON EXTENDERS IF REACH EXCEEDS 10"

170 INPUT FILE ASSIGNMENTS

	CHANNEL	1	2	3	4	5	6	7	8	9	10	11	12	13	14
"I"	U														
	L														
"J"	U														
	L														

TOTAL NUMBER OF DETECTOR CARDS(2-CHANNEL) = (2)

* ITEMS FOR WHICH SEPARATE PAYMENT WILL NOT BE MADE.

*** USE D3-1 FOR ONE LINE. USE D3-1B FOR TWO LINE.

(1) MoDOT "D" PLUG SHALL BE WIRED INTO ALL NEMA CONTROLLERS WITH 7C HARDWIRE INTERCONNECT.

(2) PAYMENT IS MADE FOR THE NUMBER OF 2-CHANNEL DETECTOR CARDS AS SHOWN BELOW THE ASSIGNMENT CHART.

170 OUTPUT FILE ASSIGNMENTS

FR1								MONITOR
FR2								
FR3								
FR4								

170 AUXILIARY OUTPUT FILE

FR5							X
FR6							

SIGNAL PLAN SHEET
SHEET 7 OF 26

ROUTE AC & GREEN MEADOWS RD
INTERSECTION

D-37C

BRYAN C. DONZE
NUMBER PE-2023007176
PROFESSIONAL ENGINEER
STATE OF MISSOURI

DATE PREPARED 01/05/2026

ROUTE	STATE
AC	MO
DISTRICT	SHEET NO.
CD	85

COUNTY: BOONE
JOB NO.: JCD0123
CONTRACT ID.:
PROJECT NO.:
BRIDGE NO.:

DESCRIPTION	DATE

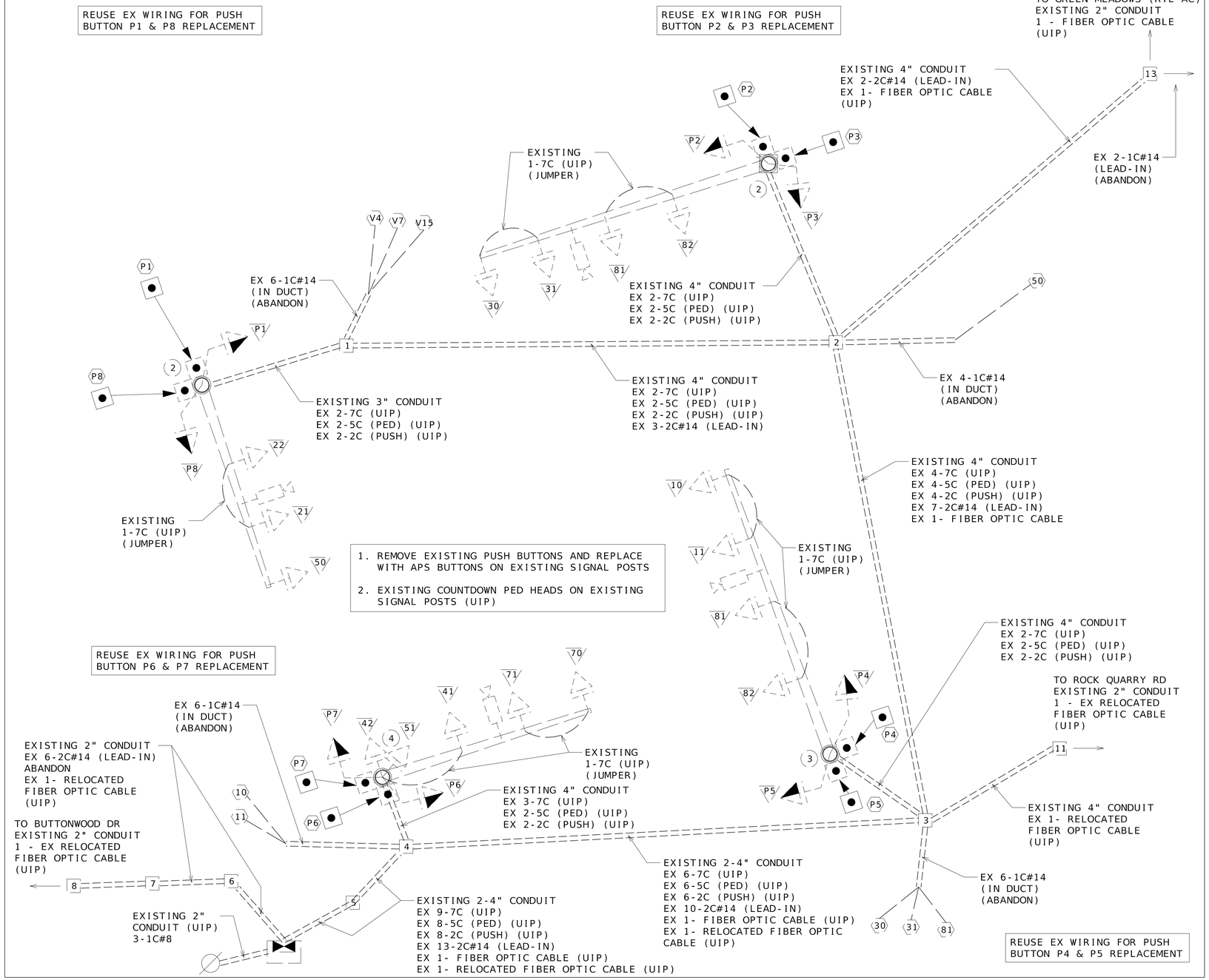
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

D37C - POWER SUPPLY/ CONTROLLER

ROUTE AC (NIFONG BLVD) & GREEN MEADOWS RD COLUMBIA, MO

EFFECTIVE 12-01-17

WIRING DIAGRAM



LEGEND

3"	CONDUIT CONTAINING CABLE WITH SIZE
	CABLE
X-Xc	MULTI-CONDUCTOR CABLE #16 AWG (UNLESS OTHERWISE INDICATED)
LIC	#14 AWG DETECTOR LEAD-IN CABLE (2C TWISTED SHIELDED)
X	PULL BOX WITH NUMBER
X	POST WITH NUMBER
X	POST WITH MAST ARM
X	POST WITH MAST ARM AND LUMINAIRE
X	DETECTOR WITH NUMBER
X	SIGNAL HEAD WITH NUMBER
	SIGNAL CONTROLLER
	POWER SUPPLY
	LIGHTING CONTROLLER

BRYAN C. DONZE NUMBER PE-2023007176 STATE OF MISSOURI PROFESSIONAL ENGINEER

DATE PREPARED: 01/05/2026

ROUTE	STATE
AC	MO
DISTRICT	SHEET NO.
CD	86

COUNTY: BOONE

JOB NO.: JCD0123

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)

D37D - WIRING DIAGRAM

ROUTE AC (NIFONG BLVD) & GREEN MEADOWS RD
COLUMBIA, MO

SIGNAL PLAN SHEET
SHEET 8 OF 26

ROUTE AC (NIFONG BLVD) & GREEN MEADOWS RD
INTERSECTION

D-37D

TRAFFIC SIGNALS LEGEND

- CONTROLLER
- EXISTING VIDEO DETECTOR
- EXISTING PUSH BUTTON DETECTOR
- PUSH BUTTON DETECTOR WITH NUMBER
- EXISTING SIGNAL HEAD WITH NUMBER
- EXISTING PEDESTRIAN SIGNAL HEAD WITH NUMBER
- PEDESTRIAN SIGNAL HEAD WITH NUMBER
- EXISTING PULL BOX WITH NUMBER
- EXISTING MAST ARM AND BASE WITH NUMBER
- EXISTING POWER SUPPLY
- (R) = REMOVE
- EXISTING LOOP DETECTOR
- CONDUIT EXISTING
- CONDUIT TRENCHED
- SPAN WIRE

STA 50+85.65 RTE AC=
STA 10+00.00 GRINDSTONE PLAZA DR

EXISTING COUNTDOWN PED. HEAD ON EXISTING SIGNAL POST(UIP)

REMOVE EXISTING PUSH BUTTONS AND REPLACE WITH APS PUSH BUTTONS, AND R10-3ER/R10-3EL ON EXISTING SIGNAL POST. INSTALL PUSH BUTTON EXTENDER IF REACH IS OVER 10".

GRINDSTONE PLAZA DR (NO SIGNALS)

EX LIGHTING CONTROLLER (UIP)

EX POWER SUPPLY (UIP)

EXIST LIMITED ACCESS R/W

EX SIGNAL CONTROLLER (UIP)

REMOVE EXISTING PUSH BUTTON AND REPLACE WITH APS PUSH BUTTON, AND R10-3EL ON EXISTING SIGNAL POST. INSTALL PUSH BUTTON EXTENDER IF REACH IS OVER 10".

EXIST LIMITED ACCESS R/W

EXISTING COUNTDOWN PED. HEAD ON EXISTING SIGNAL POST(UIP)

EXISTING COUNTDOWN PED. HEAD ON EXISTING SIGNAL POST(UIP)

REMOVE EXISTING PUSH BUTTON AND REPLACE WITH APS PUSH BUTTON, AND R10-3EL ON EXISTING SIGNAL POST. INSTALL PUSH BUTTON EXTENDER IF REACH IS OVER 10".

NEXT SIGNAL AT GREEN MEADOWS RD 2415 FT

(POSTED 50 MPH)

ROUTE AC (GRINDSTONE PKWY)

(POSTED 50 MPH)

ROUTE AC (GRINDSTONE PKWY)

NEXT SIGNAL AT ROCK QUARRY RD 1568 FT

EXISTING COUNTDOWN PED. HEAD ON EXISTING SIGNAL POST(UIP)

EXISTING COUNTDOWN PED. HEAD ON EXISTING SIGNAL POST(UIP)

REMOVE EXISTING PUSH BUTTONS AND REPLACE WITH APS PUSH BUTTONS, AND R10-3ER/R10-3EL ON EXISTING SIGNAL POST. INSTALL PUSH BUTTON EXTENDER IF REACH IS OVER 10".

EXISTING COUNTDOWN PED. HEAD ON EXISTING SIGNAL POST(UIP)

REMOVE EXISTING PUSH BUTTONS AND REPLACE WITH APS PUSH BUTTONS, AND R10-3ER/R10-3EL ON EXISTING SIGNAL POST. INSTALL PUSH BUTTON EXTENDER IF REACH IS OVER 10".

EXISTING COUNTDOWN PED. HEAD ON EXISTING SIGNAL POST(UIP)

EXIST LIMITED ACCESS R/W

EXIST LIMITED ACCESS R/W

GRINDSTONE PLAZA DR (NO SIGNALS)

STA 50+89.27 RTE AC=
STA 10+00.00 GRINDSTONE PLAZA DR

PI	52+73.74
PC	48+35.93
PT	56+77.17
Δ	39°10'35.8" (RT)
D	4°39'25.2"
L	841.24' (ARC)
T	437.81'
R	1,230.31'

SCALE
0 20 40 60

SIGNAL PLAN SHEET
SHEET 9 OF 26

Kaskaskia Engineering Group, LLC

BRYAN C. DONZE
NUMBER PE-2023007176
PROFESSIONAL ENGINEER
STATE OF MISSOURI

DATE PREPARED
01/05/2026

ROUTE	STATE
AC	MO
DISTRICT	SHEET NO.
CD	87

COUNTY
BOONE

JOB NO.
JCD0123

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)

TRAFFIC SIGNAL PLAN SHEET

ROUTE AC (GRINDSTONE PKWY) & GRINDSTONE PLAZA DR COLUMBIA, MO

087_SG_09_JCD0123_I20.dgn 4:31:39 PM 1/2/2026

EFFECTIVE 04-01-2018

POWER SUPPLY

LOCATION			POWER SUPPLY ASSEMBLY		CIRCUIT BREAKER TRIP RATING*				LIGHTING CONTROL * (ON POWER SUPPLY)		SERVICE POLE	
					CONTROLLER		POWER SUPPLY DISCONNECT					
APPROACH	STATION	OFFSET	DRAWING 902.15	DRAWING	AUXILIARY BREAKER	CONT & SIGNAL LAMPS	MAIN BREAKER		120 VOLT CONTROL CABINET	MAIN BREAKER	CONTRACT FURNISH	UTILITY COMPANY
							SIGNALS	LIGHTING				
			Type		15 Amps	Amps	Amps	Amps		Amps	Cl. Ft.	
			Type		15 Amps	Amps	Amps	Amps		Amps	Cl. Ft.	

CONTROLLER ASSEMBLY AND AUXILIARY EQUIPMENT

LOCATION			SYSTEM MASTER (CLOSED LOOP)		ACTUATED		ON-OFF* SWITCH		COORDINATION INTERFACE *						TIME * CLOCK	NEMA CABINET TYPE *			170 CABINET TYPE *		170 SOFTWARE *	
							TYPE		12C/7C HARDWIRE (1)		TIME BASE	CLOSED LOOP		FIBER								
APPROACH	STATION	OFFSET	NEMA	170	NEMA	170	I	II	MASTER	LOCAL		NEMA	170			E	EV	DOUBLE	332	336S	BITRAN	WAPITI

NEMA DETECTOR ASSIGNMENT

		CARD POSITION							
		1	2	3	4	5	6	7	8
CHANNEL	1								
	2								

EXISTING

TOTAL NUMBER OF DETECTOR CARDS(2-CHANNEL) = (2)

NEMA LOAD SWITCH ASSIGNMENTS

1	2	3	4	5	6	7	8	9	10	11	12
EXIST.	EXIST.	EXIST.	EXIST.	EXIST.	EXIST.	EXIST.	EXIST.	PED Ø4	EXIST.	PED Ø8	EXIST.

SIGNAL SIGNS

QUANTITY	MUTCD SIGN NUMBER	SIZE	AREA	SIGN TOTAL AREA ITEM NO. 90208.33	SIGNAL SIGN MOUNTING HARDWARE ITEM NO. 90208.34
		INCHES	SQ.FT.	SQ.FT.	EA.
	R10-10L	24 X 30	5.0		
	R10-10R	24 X 30	5.0		
	R3-5L	30 X 36	7.5		
	R3-5R	30 X 36	7.5		
	R3-5A	30 X 36	7.5		
	R3-6L	30 X 36	7.5		
	R3-6R	30 X 36	7.5		
	R3-2	24 X 24	4.0		
	R3-1	24 X 24	4.0		
	R3-3	24 X 24	4.0		
	D3-1 ***	VAR. X 18			
	D3-1B ***	VAR. X 18			
	R10-3E	9 X 15	0.9		
	R10-11A	24 X 30	5.0		
	R10-13	36 X 24	6.0		
	R10-27A	30 X 36	7.5		
5	R10-3EL	9 X 15	0.9	4.5	5
3	R10-3ER	9 X 15	0.9	2.7	3
			SUBTOTAL	7.2	8
			TOTAL	8	8

DETECTOR SCHEDULE

DETECTOR NUMBER	APPROACH	TYPE				
		APS PUSH BUTTON	INDUCTION LOOP (2)			VIDEO
			STANDARD	DELAY/ EXTEND *	CALL UNIT *	
43	SB GRINDSTONE	1				
24	EB ROUTE AC	1				
23	WB ROUTE AC	1				
84	SB GRINDSTONE	1				
83	NB GRINDSTONE	1				
64	WB ROUTE AC	1				
63	EB ROUTE AC	1				
44	NB GRINDSTONE	1				
TOTAL		8				

QUANTITIES INCLUDE 8 PUSH BUTTON EXTENDERS IF REACH EXCEEDS 10"

170 INPUT FILE ASSIGNMENTS

	CHANNEL	1	2	3	4	5	6	7	8	9	10	11	12	13	14
"I"	U														
	L														
"J"	U														
	L														

TOTAL NUMBER OF DETECTOR CARDS(2-CHANNEL) = (2)

* ITEMS FOR WHICH SEPARATE PAYMENT WILL NOT BE MADE.

*** USE D3-1 FOR ONE LINE. USE D3-1B FOR TWO LINE.

(1) MoDOT "D" PLUG SHALL BE WIRED INTO ALL NEMA CONTROLLERS WITH 7C HARDWIRE INTERCONNECT.

(2) PAYMENT IS MADE FOR THE NUMBER OF 2-CHANNEL DETECTOR CARDS AS SHOWN BELOW THE ASSIGNMENT CHART.

170 OUTPUT FILE ASSIGNMENTS

FR1								MONITOR
FR2								
FR3								
FR4								

170 AUXILIARY OUTPUT FILE

FR5							X
FR6							

SIGNAL PLAN SHEET
SHEET 10 OF 26

ROUTE AC & GRINDSTONE PLAZA DR
INTERSECTION

D-37C

STATE OF MISSOURI
BRYAN C. DONZE
NUMBER PE-2023007176
PROFESSIONAL ENGINEER

DATE PREPARED 01/05/2026

ROUTE	STATE
AC	MO
DISTRICT	SHEET NO.
CD	88

COUNTY: BOONE
JOB NO.: JCD0123
CONTRACT ID.:
PROJECT NO.:
BRIDGE NO.:

DESCRIPTION | DATE

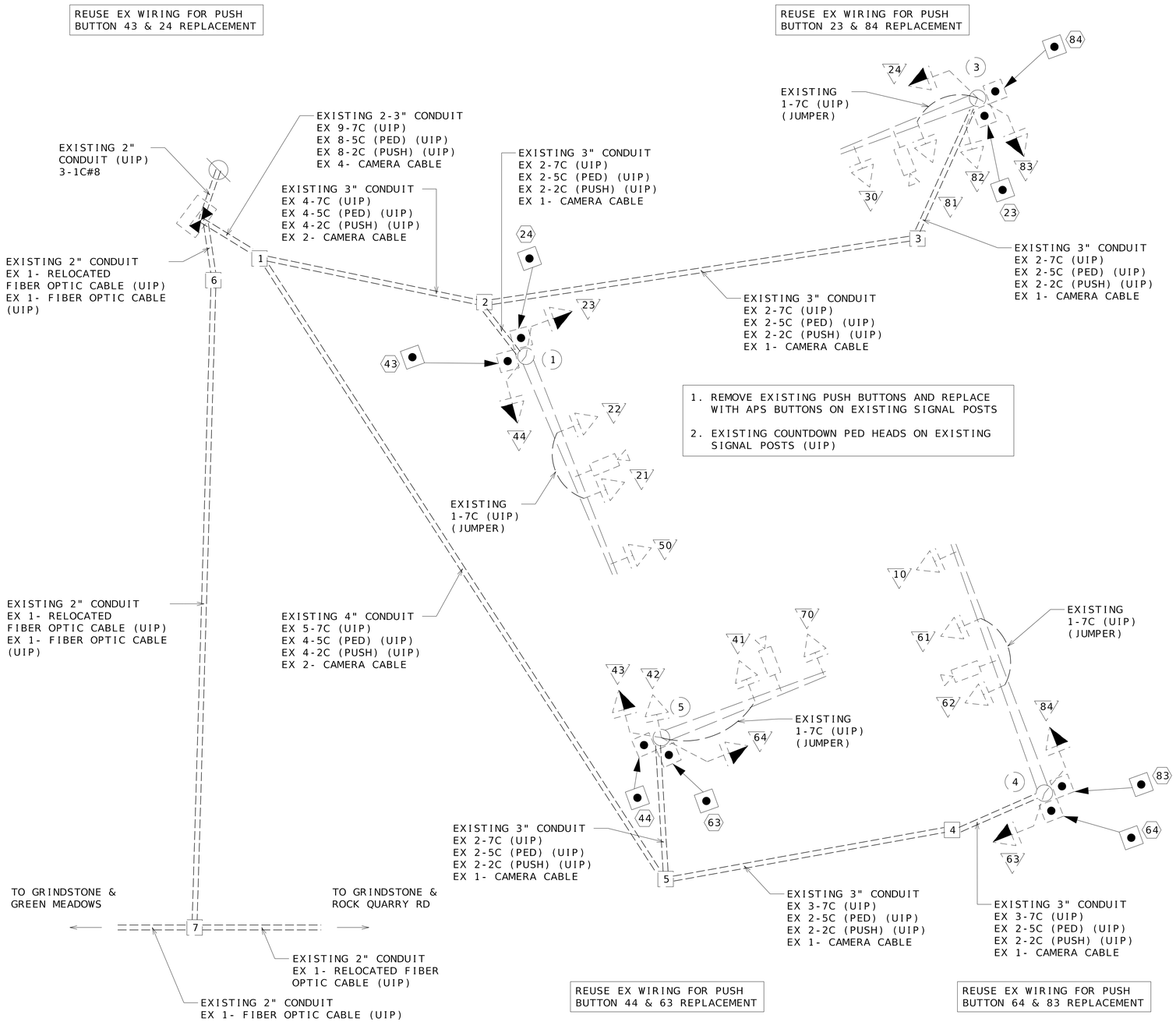
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

D37C - POWER SUPPLY/ CONTROLLER

ROUTE AC (GRINDSTONE PKWY) & GRINDSTONE PLAZA DR COLUMBIA, MO

EFFECTIVE 12-01-17

WIRING DIAGRAM



LEGEND

3"	CONDUIT CONTAINING CABLE WITH SIZE
	CABLE
X-Xc	MULTI-CONDUCTOR CABLE #16 AWG (UNLESS OTHERWISE INDICATED)
LIC	#14 AWG DETECTOR LEAD-IN CABLE (2C TWISTED SHIELDED)
X	PULL BOX WITH NUMBER
X	POST WITH NUMBER
X	POST WITH MAST ARM
X	POST WITH MAST ARM AND LUMINAIRE
X	DETECTOR WITH NUMBER
X	SIGNAL HEAD WITH NUMBER
	SIGNAL CONTROLLER
	POWER SUPPLY
	LIGHTING CONTROLLER

BRYAN C. DONZE
NUMBER PE-2023007176
STATE OF MISSOURI
PROFESSIONAL ENGINEER

DATE PREPARED: 01/05/2026

ROUTE	STATE
AC	MO
DISTRICT	SHEET NO.
CD	89

COUNTY: BOONE
JOB NO.: JCD0123
CONTRACT ID.:
PROJECT NO.:
BRIDGE NO.:

DESCRIPTION | DATE

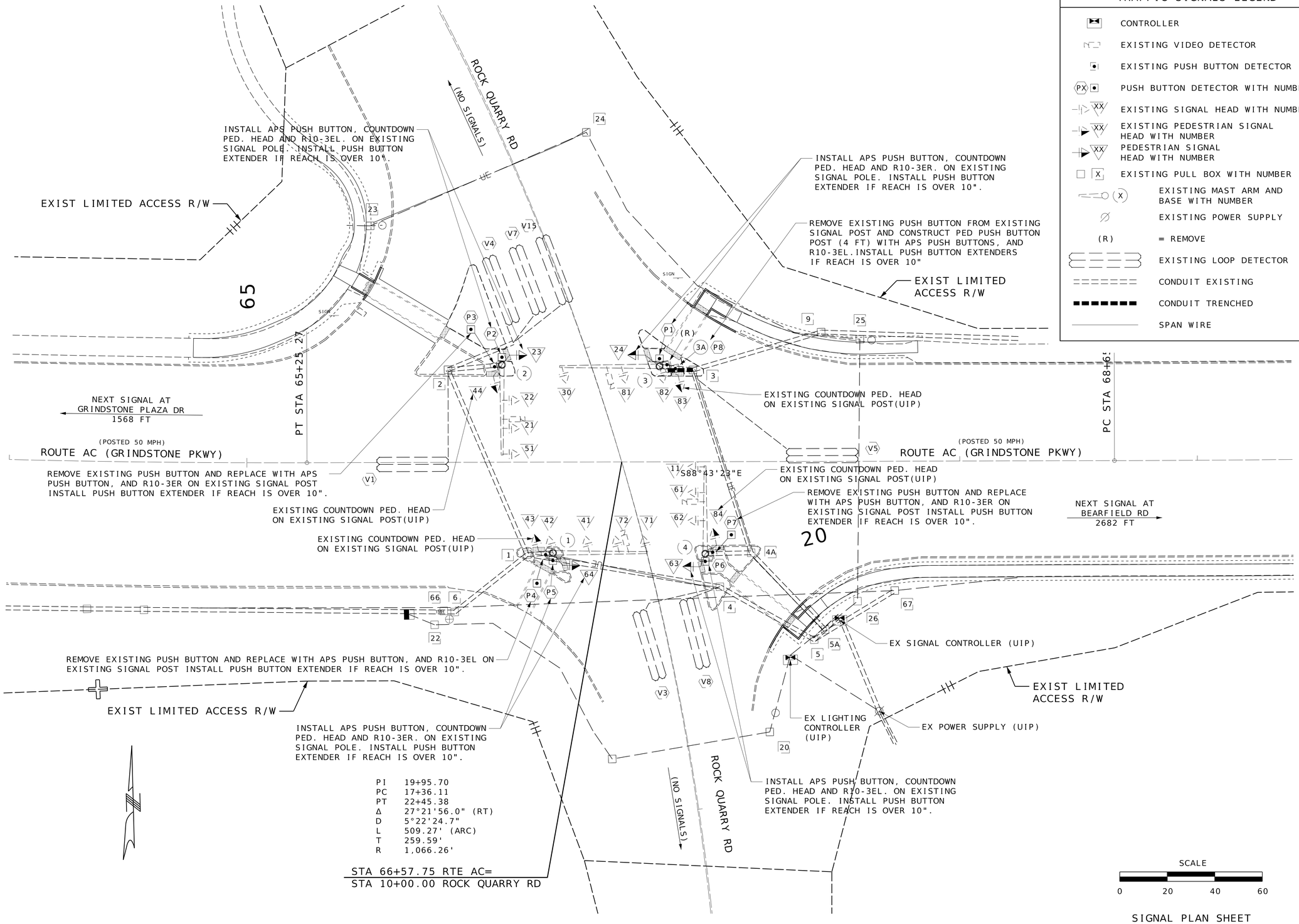
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

D37D - WIRING DIAGRAM
ROUTE AC (GRINDSTONE PKWY) & GRINDSTONE PLAZA DR
COLUMBIA, MO

SIGNAL PLAN SHEET
SHEET 11 OF 26

ROUTE AC (GRINDSTONE PKWY) & GRINDSTONE PLAZA DR
INTERSECTION

D-37D



TRAFFIC SIGNALS LEGEND

- CONTROLLER
- EXISTING VIDEO DETECTOR
- EXISTING PUSH BUTTON DETECTOR
- PUSH BUTTON DETECTOR WITH NUMBER
- EXISTING SIGNAL HEAD WITH NUMBER
- EXISTING PEDESTRIAN SIGNAL HEAD WITH NUMBER
- PEDESTRIAN SIGNAL HEAD WITH NUMBER
- EXISTING PULL BOX WITH NUMBER
- EXISTING MAST ARM AND BASE WITH NUMBER
- EXISTING POWER SUPPLY
- (R) = REMOVE
- EXISTING LOOP DETECTOR
- CONDUIT EXISTING
- CONDUIT TRENCHED
- SPAN WIRE

SIGNAL PLAN SHEET
SHEET 12 OF 26

Kaskaskia Engineering Group, LLC

BRYAN C. DONZE
NUMBER PE-2023007176
STATE OF MISSOURI
PROFESSIONAL ENGINEER

DATE PREPARED 01/05/2026

ROUTE	STATE
AC	MO
DISTRICT	SHEET NO.
CD	90

COUNTY: BOONE
JOB NO.: JCD0123
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)

TRAFFIC SIGNAL PLAN SHEET

ROUTE AC (GRINDSTONE PKWY) & ROCK QUARRY RD
COLUMBIA, MO

090_SG_12_JCD0123_I20.dgn 7:08:20 AM 1/5/2026

EFFECTIVE: 07/01/2018

| POST NUMBER | PULL BOX NUMBER | LOCATION APPROACH | LOCATION STATION | LOCATION OFFSET | BASE A 9 | BASE A 9.5 | BASE A 10 | BASE A 10.5 | BASE A 11 | BASE A 12 | BASE F 9 | BASE F 9.5 | BASE F 10 | BASE F 10.5 | BASE F 11 | BASE F 12 | BASE C | BASE CONCRETE** (CU. YDS.) | PULL BOX PREFORMED CLASS 1 | CLASS 2 | CLASS 3 | CLASS 5 | CONCRETE STANDARD | DOUBLE, TYPE A | DOUBLE, TYPE B | DRAIN TYPE* I | DRAIN TYPE* II A | DRAIN TYPE* II B | DRAIN TYPE* II C | POST TOP MOUNT POST 4 FT. | POST TOP MOUNT POST 15 FT. | TYPE C & CL ARM LENGTH A | A | A | A | TYPE C & CL SIGNAL SPACING B | C | D | D' | TYPE C & CL SIGN SPACING B | C | D | D' | TYPE B & BL ARM LENGTH E | K | E | K | E | K | TYPE B & BL LEFT ARM E SIGNAL SPACING F | G | H | H' | LEFT ARM E SIGN SPACING F | G | H | H' | TYPE B & BL RIGHT ARM K SIGNAL SPACING L | M | N | N' | RIGHT ARM K SIGN SPACING L | M | N | N' | INCLUDED ANGLE | LUMINAIRE BRACKET ARM* 4 FT. | 6 FT. | 8 FT. | 10 FT. | 12 FT. | 15 FT. |
|---|---|---

EFFECTIVE: 10-01-2015

SIGNAL PLAN SHEET
SHEET 14 OF 26

CONDUIT (WITH #14 TRACER WIRE)

FROM	TO	CENTER TO CENTER DISTANCE	LOOP DET.	TRENCH				PUSHED			MEDIAN			ON STRUCTURE			REMARKS
			1"	2"	3"	4"		2"	3"	4"	2"	3"	4"	2"	3"		
3	3A	11			15												
SUBTOTALS					15												
TOTALS					15												

CABLE

FROM	TO	CENTER TO CENTER DISTANCE	POWER		CONTROL				CLOSED LOOP INTERCONNECT	LUMINAIRE		DETECTOR		FIBER		REMARKS
					2c #16	5c #16	7c #16	3c #16	3 PAIR #16	CONTROL 2c #12	POLE & BRACKET 1c #10	1c #14 IN DUCT	2c #14 LEAD-IN CABLE	SINGLE-MODE	MULTI-MODE	
P5		154			189											PEDESTRIAN PUSH BUTTON
P2		250			291											PEDESTRIAN PUSH BUTTON
P1		149			184											PEDESTRIAN PUSH BUTTON
P8		145			180											PEDESTRIAN PUSH BUTTON
P6		73			102											PEDESTRIAN PUSH BUTTON
64		154				190										PEDESTRIAN SIGNAL HEAD
23		250				292										PEDESTRIAN SIGNAL HEAD
24		149				185										PEDESTRIAN SIGNAL HEAD
63		73				103										PEDESTRIAN SIGNAL HEAD
SUBTOTALS					946	770										
TOTALS					946	770										

INTERSECTION ROUTE AC & ROCK QUARRY RD

D-37B

BRYAN C. DONZE
NUMBER PE-2023007176
PROFESSIONAL ENGINEER
STATE OF MISSOURI

DATE PREPARED
01/05/2026

ROUTE	STATE
AC	MO
DISTRICT	SHEET NO.
CD	92

COUNTY
BOONE

JOB NO.
JCD0123

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)

D37B - SUMMARY OF QUANTITIES

ROUTE AC (NIFONG BLVD) &
ROCK QUARRY RD
COLUMBIA, MO

EFFECTIVE 04-01-2018

POWER SUPPLY

LOCATION			POWER SUPPLY ASSEMBLY		CIRCUIT BREAKER TRIP RATING*				LIGHTING CONTROL * (ON POWER SUPPLY)		SERVICE POLE	
					CONTROLLER		POWER SUPPLY DISCONNECT					
APPROACH	STATION	OFFSET	DRAWING 902.15	DRAWING	AUXILIARY BREAKER	CONT & SIGNAL LAMPS	MAIN BREAKER		120 VOLT CONTROL CABINET	MAIN BREAKER	CONTRACT FURNISH	UTILITY COMPANY
							SIGNALS	LIGHTING				
			Type		15 Amps	Amps	Amps	Amps		Amps	Cl. Ft.	
			Type		15 Amps	Amps	Amps	Amps		Amps	Cl. Ft.	

CONTROLLER ASSEMBLY AND AUXILIARY EQUIPMENT

LOCATION			SYSTEM MASTER (CLOSED LOOP)		ACTUATED		ON-OFF* SWITCH		COORDINATION INTERFACE *						TIME * CLOCK	NEMA CABINET TYPE *			170 CABINET TYPE *		170 SOFTWARE *	
							TYPE		12C/7C HARDWIRE (1)		TIME BASE	CLOSED LOOP		FIBER								
APPROACH	STATION	OFFSET	NEMA	170	NEMA	170	I	II	MASTER	LOCAL		NEMA	170			E	EV	DOUBLE	332	336S	BITRAN	WAPITI

NEMA DETECTOR ASSIGNMENT

CHANNEL	CARD POSITION 1	2	3	4	5	6	7	8
1								
2								

EXISTING

TOTAL NUMBER OF DETECTOR CARDS(2-CHANNEL) = (2)

NEMA LOAD SWITCH ASSIGNMENTS

1	2	3	4	5	6	7	8	9	10	11	12
EXIST.	EXIST.	EXIST.	EXIST.	EXIST.	EXIST.	EXIST.	EXIST.	PED Ø2	EXIST.	PED Ø6	EXIST.

SIGNAL SIGNS

QUANTITY	MUTCD SIGN NUMBER	SIZE	AREA	SIGN TOTAL AREA ITEM NO. 90208.33	SIGNAL SIGN MOUNTING HARDWARE ITEM NO. 90208.34
		INCHES	SQ.FT.	SQ.FT.	EA.
	R10-10L	24 X 30	5.0		
	R10-10R	24 X 30	5.0		
	R3-5L	30 X 36	7.5		
	R3-5R	30 X 36	7.5		
	R3-5A	30 X 36	7.5		
	R3-6L	30 X 36	7.5		
	R3-6R	30 X 36	7.5		
	R3-2	24 X 24	4.0		
	R3-1	24 X 24	4.0		
	R3-3	24 X 24	4.0		
	D3-1 ***	VAR. X 18			
	D3-1B ***	VAR. X 18			
	R10-3E	9 X 15	0.9		
	R10-11A	24 X 30	5.0		
	R10-13	36 X 24	6.0		
	R10-27A	30 X 36	7.5		
4	R10-3EL	9 X 15	0.9	3.6	4
4	R10-3ER	9 X 15	0.9	3.6	4
			SUBTOTAL	7.2	8
			TOTAL	8	8

DETECTOR SCHEDULE

DETECTOR NUMBER	APPROACH	TYPE: APS PUSH BUTTON	INDUCTION LOOP (2): STANDARD	INDUCTION LOOP (2): DELAY/ EXTEND *	INDUCTION LOOP (2): CALL UNIT *	VIDEO
P3	SB ROCK QUARRY	1				
P2	EB ROUTE AC	1				
P1	WB ROUTE AC	1				
P8	SB ROCK QUARRY	1				
P7	NB ROCK QUARRY	1				
P6	WB ROUTE AC	1				
P5	EB ROUTE AC	1				
P4	NB ROCK QUARRY	1				
TOTAL		8				

QUANTITIES INCLUDE 8 PUSH BUTTON EXTENDERS IF REACH EXCEEDS 10"

170 INPUT FILE ASSIGNMENTS

	CHANNEL	1	2	3	4	5	6	7	8	9	10	11	12	13	14
"I"	U														
	L														
"J"	U														
	L														

TOTAL NUMBER OF DETECTOR CARDS(2-CHANNEL) = (2)

* ITEMS FOR WHICH SEPARATE PAYMENT WILL NOT BE MADE.

*** USE D3-1 FOR ONE LINE. USE D3-1B FOR TWO LINE.

(1) MoDOT "D" PLUG SHALL BE WIRED INTO ALL NEMA CONTROLLERS WITH 7C HARDWIRE INTERCONNECT.

(2) PAYMENT IS MADE FOR THE NUMBER OF 2-CHANNEL DETECTOR CARDS AS SHOWN BELOW THE ASSIGNMENT CHART.

170 OUTPUT FILE ASSIGNMENTS

FR1								MONITOR
FR2								
FR3								
FR4								

170 AUXILIARY OUTPUT FILE

FR5							X
FR6							

SIGNAL PLAN SHEET
SHEET 15 OF 26

ROUTE AC & ROCK QUARRY RD
INTERSECTION

D-37C

BRYAN C. DONZE
NUMBER PE-2023007176
PROFESSIONAL ENGINEER
STATE OF MISSOURI

DATE PREPARED 01/05/2026

ROUTE	STATE
AC	MO
DISTRICT	SHEET NO.
CD	93

COUNTY: BOONE
JOB NO.: JCD0123
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)

D37C - POWER SUPPLY/ CONTROLLER

ROUTE AC (GRINDSTONE PKWY) & ROCK QUARRY RD COLUMBIA, MO

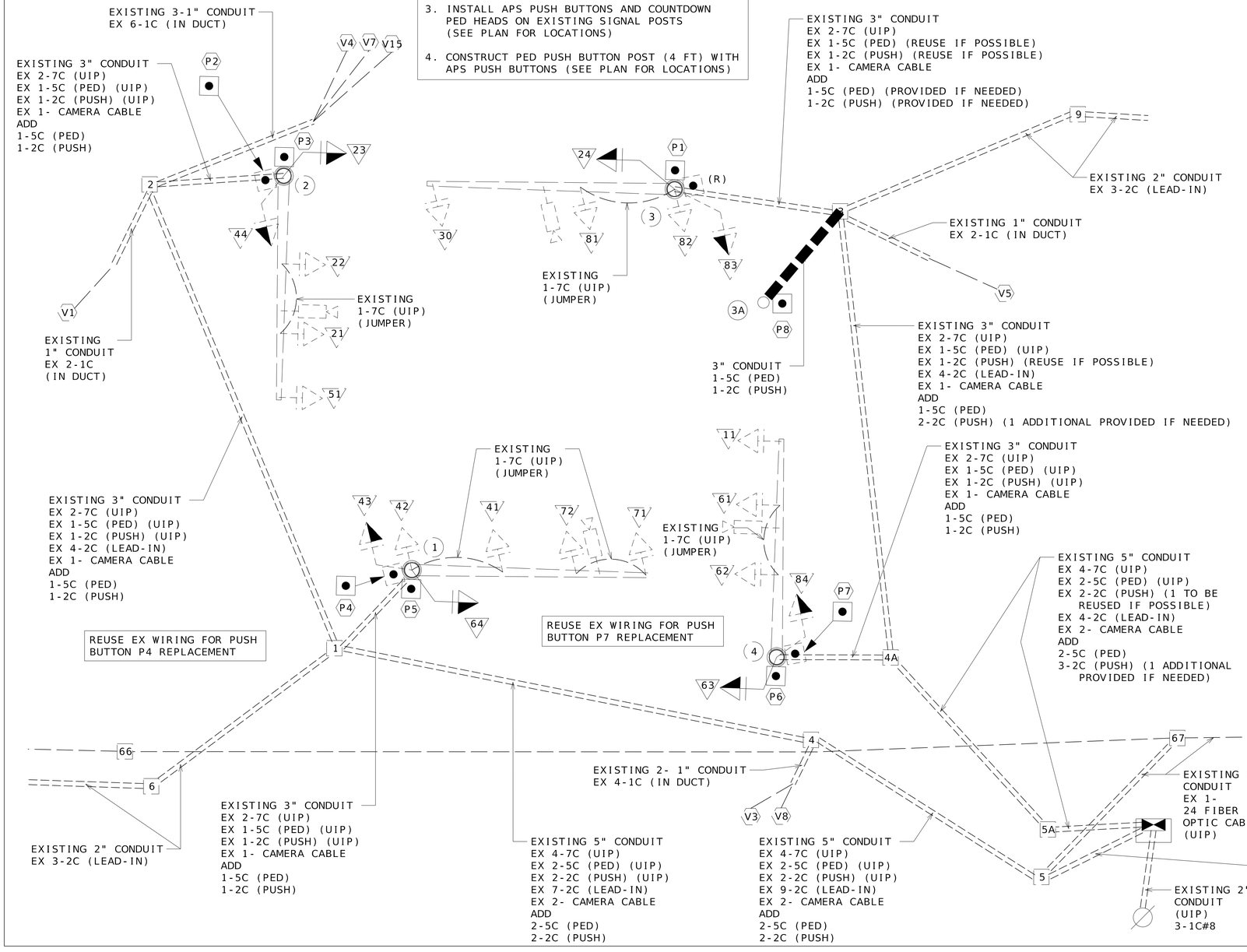
EFFECTIVE 12-01-17

WIRING DIAGRAM

REUSE EX WIRING FOR PUSH BUTTON P2 REPLACEMENT

1. REMOVE EXISTING PUSH BUTTONS AND REPLACE WITH APS BUTTONS ON EXISTING SIGNAL POSTS
2. EXISTING COUNTDOWN PED HEADS ON EXISTING SIGNAL POSTS (UIP)
3. INSTALL APS PUSH BUTTONS AND COUNTDOWN PED HEADS ON EXISTING SIGNAL POSTS (SEE PLAN FOR LOCATIONS)
4. CONSTRUCT PED PUSH BUTTON POST (4 FT) WITH APS PUSH BUTTONS (SEE PLAN FOR LOCATIONS)

REUSE EX WIRING FROM OLD PUSH BUTTON P8 FOR NEW PUSH BUTTON P1 IF POSSIBLE ADDITIONAL CABLE QUANTITY PROVIDED IF NEEDED



LEGEND

3"	CONDUIT CONTAINING CABLE WITH SIZE
	CABLE
X-Xc	MULTI-CONDUCTOR CABLE #16 AWG (UNLESS OTHERWISE INDICATED)
LIC	#14 AWG DETECTOR LEAD-IN CABLE (2C TWISTED SHIELDED)
X	PULL BOX WITH NUMBER
X	POST WITH NUMBER
X	POST WITH MAST ARM
X	POST WITH MAST ARM AND LUMINAIRE
X	DETECTOR WITH NUMBER
X	SIGNAL HEAD WITH NUMBER
	SIGNAL CONTROLLER
	POWER SUPPLY
	LIGHTING CONTROLLER

SIGNAL PLAN SHEET
SHEET 16 OF 26

ROUTE AC (GRINDSTONE PKWY) & ROCK QUARRY RD

INTERSECTION

D-37D

STATE OF MISSOURI
BRYAN C. DONZE
NUMBER PE-2023007176
PROFESSIONAL ENGINEER

DATE PREPARED
01/05/2026

ROUTE	STATE
AC	MO
DISTRICT	SHEET NO.
CD	94

COUNTY
BOONE

JOB NO.
JCD0123

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)

D37D - WIRING DIAGRAM

ROUTE AC (GRINDSTONE PKWY) & ROCK QUARRY RD
COLUMBIA, MO

PT STA 5+70.50

PI 4+21.03
PC 2+55.02
PT 5+70.50
Δ 44°4'34.2" (LT)
D 13°58'16.2"
L 315.48' (ARC)
T 166.01'
R 410.10'

BEARFIELD RD (NO SIGNALS)

INSTALL COUNTDOWN PED. HEAD ON EXISTING SIGNAL POLE.

CONSTRUCT PED PUSH BUTTON POST (4 FT) WITH APS PUSH BUTTONS, AND R10-3ER.INSTALL PUSH BUTTON EXTENDERS IF REACH IS OVER 10"

REMOVE EXISTING PUSH BUTTON AND REPLACE WITH APS PUSH BUTTON, AND R10-3ER ON EXISTING SIGNAL POST INSTALL PUSH BUTTON EXTENDER IF REACH IS OVER 10".

EXIST LIMITED ACCESS R/W

INSTALL COUNTDOWN PED. HEAD ON EXISTING SIGNAL POLE.

EXIST LIMITED ACCESS R/W

CONSTRUCT PED PUSH BUTTON POST (4 FT) WITH APS PUSH BUTTONS, AND R10-3EL.INSTALL PUSH BUTTON EXTENDERS IF REACH IS OVER 10"

REMOVE EXISTING PUSH BUTTON AND REPLACE WITH APS PUSH BUTTON, AND R10-3EL ON EXISTING SIGNAL POST INSTALL PUSH BUTTON EXTENDER IF REACH IS OVER 10".

95

NEXT SIGNAL AT ROCK QUARRY RD 2682 FT

EXISTING COUNTDOWN PED. HEAD ON EXISTING SIGNAL POST(UIP)

EXISTING COUNTDOWN PED. HEAD ON EXISTING SIGNAL POST(UIP)

(POSTED 50 MPH)
ROUTE AC (GRINDSTONE PKWY)

(POSTED 50 MPH)
ROUTE AC (GRINDSTONE PKWY)

EXISTING COUNTDOWN PED. HEAD ON EXISTING SIGNAL POST(UIP)

EXISTING COUNTDOWN PED. HEAD ON EXISTING SIGNAL POST(UIP)

NEXT SIGNAL AT BLUFF CREEK RD 1555 FT

REMOVE EXISTING PUSH BUTTON AND REPLACE WITH APS PUSH BUTTON, AND R10-3EL ON EXISTING SIGNAL POST INSTALL PUSH BUTTON EXTENDER IF REACH IS OVER 10".

REMOVE EXISTING PUSH BUTTON AND REPLACE WITH APS PUSH BUTTON, AND R10-3ER ON EXISTING SIGNAL POST INSTALL PUSH BUTTON EXTENDER IF REACH IS OVER 10".

S01°09'29"W

EXIST LIMITED ACCESS R/W

EX LIGHTING CONTROLLER (UIP)

EX SIGNAL CONTROLLER (UIP)

EX POWER SUPPLY (UIP)

INSTALL APS PUSH BUTTON, COUNTDOWN PED. HEAD AND R10-3ER. ON EXISTING SIGNAL POLE. INSTALL PUSH BUTTON EXTENDER IF REACH IS OVER 10".

INSTALL APS PUSH BUTTON, COUNTDOWN PED. HEAD AND R10-3EL. ON EXISTING SIGNAL POLE. INSTALL PUSH BUTTON EXTENDER IF REACH IS OVER 10".

EXIST LIMITED ACCESS R/W

STA 93+39.78 RTE AC=
STA 7+38.18 BEARFIELD RD

BEARFIELD RD (NO SIGNALS)

TRAFFIC SIGNALS LEGEND

- CONTROLLER
- EXISTING VIDEO DETECTOR
- EXISTING PUSH BUTTON DETECTOR
- PX — PUSH BUTTON DETECTOR WITH NUMBER
- XX — EXISTING SIGNAL HEAD WITH NUMBER
- XX — EXISTING PEDESTRIAN SIGNAL HEAD WITH NUMBER
- XX — PEDESTRIAN SIGNAL HEAD WITH NUMBER
- X — EXISTING PULL BOX WITH NUMBER
- X — EXISTING MAST ARM AND BASE WITH NUMBER
- EXISTING POWER SUPPLY
- (R) = REMOVE
- EXISTING LOOP DETECTOR
- CONDUIT EXISTING
- CONDUIT TRENCHED
- SPAN WIRE

SCALE
0 20 40 60

SIGNAL PLAN SHEET
SHEET 17 OF 26

Kaskaskia Engineering Group, LLC

BRYAN C. DONZE
NUMBER PE-2023007176
STATE OF MISSOURI
PROFESSIONAL ENGINEER

DATE PREPARED
01/05/2026

ROUTE	STATE
AC	MO
DISTRICT	SHEET NO.
CD	95

COUNTY
BOONE

JOB NO.
JCD0123

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)

TRAFFIC SIGNAL PLAN SHEET
ROUTE AC (GRINDSTONE PKWY) & BEARFIELD RD COLUMBIA, MO

095_SG_17_JCD0123_I20.dgn 8:12:08 AM 1/5/2026

EFFECTIVE: 07/01/2018

| POST NUMBER | PULL BOX NUMBER | LOCATION APPROACH | LOCATION STATION | LOCATION OFFSET | BASE A 9 | BASE A 9.5 | BASE A 10 | BASE A 10.5 | BASE A 11 | BASE A 12 | BASE F 9 | BASE F 9.5 | BASE F 10 | BASE F 10.5 | BASE F 11 | BASE F 12 | BASE C | BASE CONCRETE** (CU. YDS.) | PULL BOX PREFORMED CLASS 1 | PREFORMED CLASS 2 | PREFORMED CLASS 3 | PREFORMED CLASS 5 | CONCRETE STANDARD | CONCRETE DOUBLE, TYPE A | CONCRETE DOUBLE, TYPE B | DRAIN TYPE* I | DRAIN TYPE* II A | DRAIN TYPE* II B | DRAIN TYPE* II C | POST TOP MOUNT POST 4 FT. | POST TOP MOUNT POST 15 FT. | TYPE C & CL ARM LENGTH A | TYPE C & CL ARM LENGTH A | TYPE C & CL ARM LENGTH A | TYPE C & CL ARM LENGTH A | TYPE C & CL SIGNAL SPACING B | TYPE C & CL SIGNAL SPACING C | TYPE C & CL SIGNAL SPACING D | TYPE C & CL SIGNAL SPACING D' | TYPE C & CL SIGN SPACING B | TYPE C & CL SIGN SPACING C | TYPE C & CL SIGN SPACING D | TYPE C & CL SIGN SPACING D' | TYPE B & BL ARM LENGTH E | TYPE B & BL ARM LENGTH K | TYPE B & BL ARM LENGTH E | TYPE B & BL ARM LENGTH K | TYPE B & BL ARM LENGTH E | TYPE B & BL LEFT ARM E SIGNAL SPACING F | TYPE B & BL LEFT ARM E SIGNAL SPACING G | TYPE B & BL LEFT ARM E SIGNAL SPACING H | TYPE B & BL LEFT ARM E SIGNAL SPACING H' | TYPE B & BL LEFT ARM E SIGN SPACING F | TYPE B & BL LEFT ARM E SIGN SPACING G | TYPE B & BL LEFT ARM E SIGN SPACING H | TYPE B & BL LEFT ARM E SIGN SPACING H' | TYPE B & BL RIGHT ARM K SIGNAL SPACING L | TYPE B & BL RIGHT ARM K SIGNAL SPACING M | TYPE B & BL RIGHT ARM K SIGNAL SPACING N | TYPE B & BL RIGHT ARM K SIGNAL SPACING N' | TYPE B & BL RIGHT ARM K SIGN SPACING L | TYPE B & BL RIGHT ARM K SIGN SPACING M | TYPE B & BL RIGHT ARM K SIGN SPACING N | TYPE B & BL RIGHT ARM K SIGN SPACING N' | TYPE B & BL INCLUDED ANGLE | LUMINAIRE BRACKET ARM* 4 FT. | LUMINAIRE BRACKET ARM* 6 FT. | LUMINAIRE BRACKET ARM* 8 FT. | LUMINAIRE BRACKET ARM* 10 FT. | LUMINAIRE BRACKET ARM* 12 FT. | LUMINAIRE BRACKET ARM* 15 FT. |
|---|---|---

EFFECTIVE: 10-01-2015

SIGNAL PLAN SHEET
SHEET 19 OF 26

CONDUIT (WITH #14 TRACER WIRE)

FROM	TO	CENTER TO CENTER DISTANCE	LOOP DET.	TRENCH				PUSHED			MEDIAN			ON STRUCTURE			REMARKS
			1"	2"	3"	4"		2"	3"	4"	2"	3"	4"	2"	3"		
2	2A	19			23												
3	3A	21			25												
SUBTOTALS					48												
TOTALS					48												

CABLE

FROM	TO	CENTER TO CENTER DISTANCE	POWER		CONTROL				CLOSED LOOP INTERCONNECT	LUMINAIRE		DETECTOR		FIBER		REMARKS
					2c #16	5c #16	7c #16	3c #16	3 PAIR #16	CONTROL 2c #12	POLE & BRACKET 1c #10	1c #14 IN DUCT	2c #14 LEAD-IN CABLE	SINGLE-MODE	MULTI-MODE	
P5		85			114											PEDESTRIAN PUSH BUTTON
P2		165			200											PEDESTRIAN PUSH BUTTON
P1		218			259											PEDESTRIAN PUSH BUTTON
P6		118			153											PEDESTRIAN PUSH BUTTON
64		85				115										PEDESTRIAN SIGNAL HEAD
23		161				197										PEDESTRIAN SIGNAL HEAD
24		215				257										PEDESTRIAN SIGNAL HEAD
63		118				154										PEDESTRIAN SIGNAL HEAD
SUBTOTALS					726	723										
TOTALS					726	723										

INTERSECTION ROUTE AC & BEARFIELD RD

D-37B

BRYAN C. DONZE
NUMBER PE-2023007176
STATE OF MISSOURI
PROFESSIONAL ENGINEER

DATE PREPARED
01/05/2026

ROUTE AC | STATE MO
DISTRICT CD | SHEET NO. 97
COUNTY BOONE
JOB NO. JCD0123
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)

D37B - SUMMARY OF QUANTITIES

ROUTE AC (NIFONG BLVD) &
BEARFIELD RD
COLUMBIA, MO

EFFECTIVE 04-01-2018

POWER SUPPLY

LOCATION			POWER SUPPLY ASSEMBLY		CIRCUIT BREAKER TRIP RATING*				LIGHTING CONTROL * (ON POWER SUPPLY)		SERVICE POLE	
					CONTROLLER		POWER SUPPLY DISCONNECT					
APPROACH	STATION	OFFSET	DRAWING 902.15	DRAWING	AUXILIARY BREAKER	CONT & SIGNAL LAMPS	MAIN BREAKER		120 VOLT CONTROL CABINET	MAIN BREAKER	CONTRACT FURNISH	UTILITY COMPANY
							SIGNALS	LIGHTING				
			Type		15 Amps	Amps	Amps	Amps		Amps	Cl. Ft.	
			Type		15 Amps	Amps	Amps	Amps		Amps	Cl. Ft.	

CONTROLLER ASSEMBLY AND AUXILIARY EQUIPMENT

LOCATION			SYSTEM MASTER (CLOSED LOOP)		ACTUATED		ON-OFF* SWITCH		COORDINATION INTERFACE *						TIME * CLOCK	NEMA CABINET TYPE *			170 CABINET TYPE *		170 SOFTWARE *	
							TYPE		12C/7C HARDWIRE (1)		TIME BASE	CLOSED LOOP		FIBER								
APPROACH	STATION	OFFSET	NEMA	170	NEMA	170	I	II	MASTER	LOCAL		NEMA	170			E	EV	DOUBLE	332	336S	BITRAN	WAPITI

NEMA DETECTOR ASSIGNMENT

		CARD POSITION							
		1	2	3	4	5	6	7	8
CHANNEL	1	EXISTING							
	2								

TOTAL NUMBER OF DETECTOR CARDS(2-CHANNEL) = (2)

NEMA LOAD SWITCH ASSIGNMENTS

1	2	3	4	5	6	7	8	9	10	11	12
EXIST.	EXIST.	EXIST.	EXIST.	EXIST.	EXIST.	EXIST.	EXIST.	PED Ø2	EXIST.	PED Ø6	EXIST.

SIGNAL SIGNS

QUANTITY	MUTCD SIGN NUMBER	SIZE	AREA	SIGN TOTAL AREA ITEM NO. 90208.33	SIGNAL SIGN MOUNTING HARDWARE ITEM NO. 90208.34
		INCHES	SQ.FT.	SQ.FT.	EA.
	R10-10L	24 X 30	5.0		
	R10-10R	24 X 30	5.0		
	R3-5L	30 X 36	7.5		
	R3-5R	30 X 36	7.5		
	R3-5A	30 X 36	7.5		
	R3-6L	30 X 36	7.5		
	R3-6R	30 X 36	7.5		
	R3-2	24 X 24	4.0		
	R3-1	24 X 24	4.0		
	R3-3	24 X 24	4.0		
	D3-1 ***	VAR. X 18			
	D3-1B ***	VAR. X 18			
	R10-3E	9 X 15	0.9		
	R10-11A	24 X 30	5.0		
	R10-13	36 X 24	6.0		
	R10-27A	30 X 36	7.5		
4	R10-3EL	9 X 15	0.9	3.6	4
4	R10-3ER	9 X 15	0.9	3.6	4
			SUBTOTAL	7.2	8
			TOTAL	8	8

DETECTOR SCHEDULE

DETECTOR NUMBER	APPROACH	TYPE				
		APS PUSH BUTTON	INDUCTION LOOP (2)			VIDEO
			STANDARD	DELAY/ EXTEND *	CALL UNIT *	
P3	SB BEARFIELD	1				
P2	EB ROUTE AC	1				
P1	WB ROUTE AC	1				
P8	SB BEARFIELD	1				
P7	NB BEARFIELD	1				
P6	WB ROUTE AC	1				
P5	EB ROUTE AC	1				
P4	NB BEARFIELD	1				
TOTAL		8				

QUANTITIES INCLUDE 8 PUSH BUTTON EXTENDERS IF REACH EXCEEDS 10"

170 INPUT FILE ASSIGNMENTS

	CHANNEL	1	2	3	4	5	6	7	8	9	10	11	12	13	14
"I"	U														
	L														
"J"	U														
	L														

TOTAL NUMBER OF DETECTOR CARDS(2-CHANNEL) = (2)

* ITEMS FOR WHICH SEPARATE PAYMENT WILL NOT BE MADE.

*** USE D3-1 FOR ONE LINE. USE D3-1B FOR TWO LINE.

(1) MoDOT "D" PLUG SHALL BE WIRED INTO ALL NEMA CONTROLLERS WITH 7C HARDWIRE INTERCONNECT.

(2) PAYMENT IS MADE FOR THE NUMBER OF 2-CHANNEL DETECTOR CARDS AS SHOWN BELOW THE ASSIGNMENT CHART.

170 OUTPUT FILE ASSIGNMENTS

FR1								MONITOR
FR2								
FR3								
FR4								

170 AUXILIARY OUTPUT FILE

FR5							X
FR6							

SIGNAL PLAN SHEET
SHEET 20 OF 26

ROUTE AC & BEARFIELD RD
INTERSECTION

D-37C

BRYAN C. DONZE
NUMBER PE-2023007176
STATE OF MISSOURI
PROFESSIONAL ENGINEER

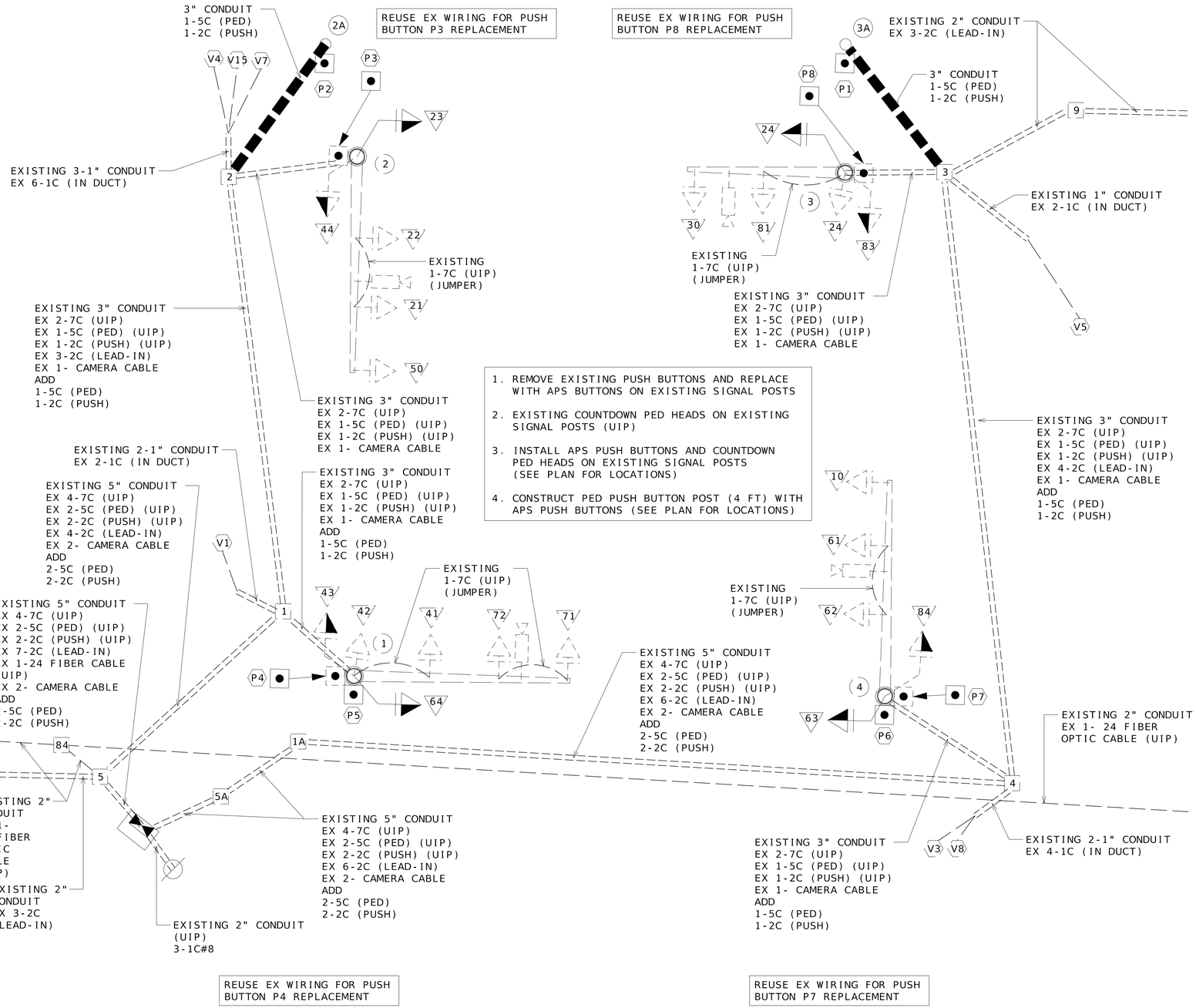
DATE PREPARED: 01/05/2026
ROUTE: AC | STATE: MO
DISTRICT: CD | SHEET NO.: 98
COUNTY: BOONE
JOB NO.: JCD0123
CONTRACT ID.:
PROJECT NO.:
BRIDGE NO.:

DESCRIPTION | DATE

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

D37C - POWER SUPPLY/ CONTROLLER
ROUTE AC (GRINDSTONE PKWY) & BEARFIELD RD
COLUMBIA, MO

WIRING DIAGRAM



1. REMOVE EXISTING PUSH BUTTONS AND REPLACE WITH APS BUTTONS ON EXISTING SIGNAL POSTS
2. EXISTING COUNTDOWN PED HEADS ON EXISTING SIGNAL POSTS (UIP)
3. INSTALL APS PUSH BUTTONS AND COUNTDOWN PED HEADS ON EXISTING SIGNAL POSTS (SEE PLAN FOR LOCATIONS)
4. CONSTRUCT PED PUSH BUTTON POST (4 FT) WITH APS PUSH BUTTONS (SEE PLAN FOR LOCATIONS)

LEGEND

3"	CONDUIT CONTAINING CABLE WITH SIZE
	CABLE
X-Xc	MULTI-CONDUCTOR CABLE #16 AWG (UNLESS OTHERWISE INDICATED)
LIC	#14 AWG DETECTOR LEAD-IN CABLE (2C TWISTED SHIELDED)
X	PULL BOX WITH NUMBER
X	POST WITH NUMBER
X	POST WITH MAST ARM
X	POST WITH MAST ARM AND LUMINAIRE
X	DETECTOR WITH NUMBER
X	SIGNAL HEAD WITH NUMBER
	SIGNAL CONTROLLER
	POWER SUPPLY
	LIGHTING CONTROLLER

BRYAN C. DONZE
NUMBER PE-2023007176
PROFESSIONAL ENGINEER
STATE OF MISSOURI

DATE PREPARED: 01/05/2026
ROUTE: AC
STATE: MO
DISTRICT: CD
SHEET NO.: 99
COUNTY: BOONE
JOB NO.: JCD0123
CONTRACT ID.:
PROJECT NO.:
BRIDGE NO.:

DESCRIPTION	DATE

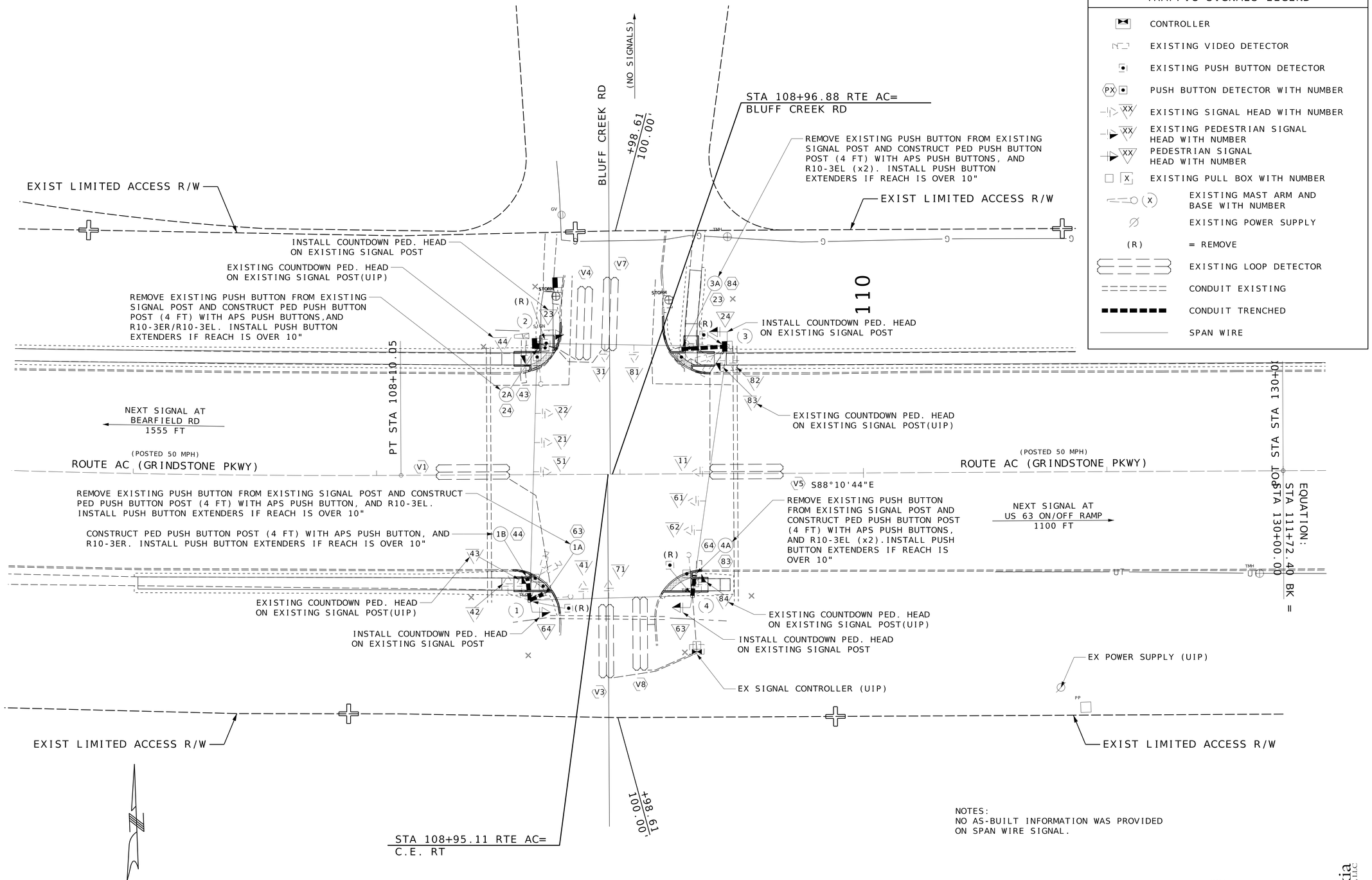
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

D37D - WIRING DIAGRAM

ROUTE AC (GRINDSTONE PKWY) & BEARFIELD RD
COLUMBIA, MO

SIGNAL PLAN SHEET
SHEET 21 OF 26

ROUTE AC (GRINDSTONE PKWY) & BEARFIELD RD
INTERSECTION



TRAFFIC SIGNALS LEGEND

- CONTROLLER
- EXISTING VIDEO DETECTOR
- EXISTING PUSH BUTTON DETECTOR
- PUSH BUTTON DETECTOR WITH NUMBER
- EXISTING SIGNAL HEAD WITH NUMBER
- EXISTING PEDESTRIAN SIGNAL HEAD WITH NUMBER
- PEDESTRIAN SIGNAL HEAD WITH NUMBER
- EXISTING PULL BOX WITH NUMBER
- EXISTING MAST ARM AND BASE WITH NUMBER
- EXISTING POWER SUPPLY
- (R) = REMOVE
- EXISTING LOOP DETECTOR
- CONDUIT EXISTING
- CONDUIT TRENCHED
- SPAN WIRE

SIGNAL PLAN SHEET
SHEET 22 OF 26

BRYAN C. DONZE
NUMBER PE-2023007176
PROFESSIONAL ENGINEER
STATE OF MISSOURI

DATE PREPARED: 01/05/2026

ROUTE	STATE
AC	MO
DISTRICT	SHEET NO.
CD	100

COUNTY: BOONE
JOB NO.: JCD0123
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)

TRAFFIC SIGNAL PLAN SHEET

ROUTE AC (GRINDSTONE PKWY) & BLUFF CREEK DR COLUMBIA, MO

Kaskaskia Engineering Group, LLC
100_SG_22_JCD0123_120.dgn 8:53:33 AM 1/5/2026

EFFECTIVE: 07/01/2018

| POST NUMBER | PULL BOX NUMBER | LOCATION APPROACH | LOCATION STATION | LOCATION OFFSET | BASE A 9 | BASE A 9.5 | BASE A 10 | BASE A 10.5 | BASE A 11 | BASE A 12 | BASE F 9 | BASE F 9.5 | BASE F 10 | BASE F 10.5 | BASE F 11 | BASE F 12 | BASE C CONCRETE** (CU. YDS.) | PULL BOX PREFORMED CLASS 1 | CLASS 2 | CLASS 3 | CLASS 5 | CONCRETE STANDARD | DOUBLE, TYPE A | DOUBLE, TYPE B | DRAIN TYPE* I | DRAIN TYPE* II A | DRAIN TYPE* II B | DRAIN TYPE* II C | TOP MOUNT POST 4 FT. | TOP MOUNT POST 15 FT. | TYPE C & CL ARM LENGTH A | A | A | A | TYPE C & CL SIGNAL SPACING B | C | D | D' | TYPE C & CL SIGN SPACING B | C | D | D' | TYPE B & BL ARM LENGTH E | K | E | K | E | K | TYPE B & BL LEFT ARM E SIGNAL SPACING F | G | H | H' | LEFT ARM E SIGN SPACING F | G | H | H' | TYPE B & BL RIGHT ARM K SIGNAL SPACING L | M | N | N' | RIGHT ARM K SIGN SPACING L | M | N | N' | INCLUDED ANGLE | LUMINAIRE BRACKET ARM* 4 FT. | 6 FT. | 8 FT. | 10 FT. | 12 FT. | 15 FT. |
|---|---|---

EFFECTIVE: 10-01-2015

SIGNAL PLAN SHEET
SHEET 24 OF 26

CONDUIT (WITH #14 TRACER WIRE)

FROM	TO	CENTER TO CENTER DISTANCE	LOOP DET.	TRENCH				PUSHED			MEDIAN			ON STRUCTURE			REMARKS
			1"	2"	3"	4"		2"	3"	4"	2"	3"	4"	2"	3"		
1	1A	6			10												
1	1B	10			14												
2	2A	3			7												
3	3A	19			23												
4	4A	9			13												
SUBTOTALS					67												
TOTALS					67												

CABLE

FROM	TO	CENTER TO CENTER DISTANCE	POWER		CONTROL				CLOSED LOOP INTERCONNECT	LUMINAIRE		DETECTOR		FIBER		REMARKS
					2c #16	5c #16	7c #16	3c #16	3 PAIR #16	CONTROL 2c #12	POLE & BRACKET 1c #10	1c #14 IN DUCT	2c #14 LEAD-IN CABLE	SINGLE-MODE	MULTI-MODE	
63		96			175											PEDESTRIAN PUSH BUTTON
44		100			179											PEDESTRIAN PUSH BUTTON
43		207			292											PEDESTRIAN PUSH BUTTON
24		207			292											PEDESTRIAN PUSH BUTTON
23		146			227											PEDESTRIAN PUSH BUTTON
84		146			227											PEDESTRIAN PUSH BUTTON
83		32			107											PEDESTRIAN PUSH BUTTON
64		32			107											PEDESTRIAN PUSH BUTTON
64		90				170										PEDESTRIAN SIGNAL HEAD
23		205				291										PEDESTRIAN SIGNAL HEAD
24		127				182										PEDESTRIAN SIGNAL HEAD
63		24				100										PEDESTRIAN SIGNAL HEAD
SUBTOTALS					1606	743										
TOTALS					1606	743										

INTERSECTION ROUTE AC & BLUFF CREEK DR

D-37B

BRYAN C. DONZE
NUMBER PE-2023007176
PROFESSIONAL ENGINEER
STATE OF MISSOURI

DATE PREPARED
01/05/2026

ROUTE	STATE
AC	MO
DISTRICT	SHEET NO.
CD	102

COUNTY
BOONE

JOB NO.
JCD0123

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)

D37B - SUMMARY OF QUANTITIES

ROUTE AC (GRINDSTONE PKWY) & BLUFF CREEK DR
COLUMBIA, MO

EFFECTIVE 04-01-2018

POWER SUPPLY

LOCATION			POWER SUPPLY ASSEMBLY		CIRCUIT BREAKER TRIP RATING*				LIGHTING CONTROL * (ON POWER SUPPLY)		SERVICE POLE	
					CONTROLLER		POWER SUPPLY DISCONNECT					
APPROACH	STATION	OFFSET	DRAWING 902.15	DRAWING	AUXILIARY BREAKER	CONT & SIGNAL LAMPS	MAIN BREAKER		120 VOLT CONTROL CABINET	MAIN BREAKER	CONTRACT FURNISH	UTILITY COMPANY
							SIGNALS	LIGHTING				
			Type		15 Amps	Amps	Amps	Amps		Amps	Cl. Ft.	
			Type		15 Amps	Amps	Amps	Amps		Amps	Cl. Ft.	

CONTROLLER ASSEMBLY AND AUXILIARY EQUIPMENT

LOCATION			SYSTEM MASTER (CLOSED LOOP)		ACTUATED		ON-OFF* SWITCH		COORDINATION INTERFACE *						TIME * CLOCK	NEMA CABINET TYPE *			170 CABINET TYPE *		170 SOFTWARE *	
							TYPE		12C/7C HARDWIRE (1)		TIME BASE	CLOSED LOOP		FIBER								
APPROACH	STATION	OFFSET	NEMA	170	NEMA	170	I	II	MASTER	LOCAL		NEMA	170			E	EV	DOUBLE	332	336S	BITRAN	WAPITI

NEMA DETECTOR ASSIGNMENT

		CARD POSITION							
		1	2	3	4	5	6	7	8
CHANNEL	1		EXISTING						
	2								

TOTAL NUMBER OF DETECTOR CARDS(2-CHANNEL) = (2)

NEMA LOAD SWITCH ASSIGNMENTS

1	2	3	4	5	6	7	8	9	10	11	12
EXIST.	EXIST.		EXIST.	EXIST.	EXIST.		EXIST.	PED Ø2	EXIST.	PED Ø6	EXIST.

SIGNAL SIGNS

QUANTITY	MUTCD SIGN NUMBER	SIZE	AREA	SIGN TOTAL AREA ITEM NO. 90208.33	SIGNAL SIGN MOUNTING HARDWARE ITEM NO. 90208.34
		INCHES	SQ.FT.	SQ.FT.	EA.
	R10-10L	24 X 30	5.0		
	R10-10R	24 X 30	5.0		
	R3-5L	30 X 36	7.5		
	R3-5R	30 X 36	7.5		
	R3-5A	30 X 36	7.5		
	R3-6L	30 X 36	7.5		
	R3-6R	30 X 36	7.5		
	R3-2	24 X 24	4.0		
	R3-1	24 X 24	4.0		
	R3-3	24 X 24	4.0		
	D3-1 ***	VAR. X 18			
	D3-1B ***	VAR. X 18			
	R10-3E	9 X 15	0.9		
	R10-11A	24 X 30	5.0		
	R10-13	36 X 24	6.0		
	R10-27A	30 X 36	7.5		
6	R10-3EL	9 X 15	0.9	5.4	6
2	R10-3ER	9 X 15	0.9	1.8	2
			SUBTOTAL	7.2	8
			TOTAL	8	8

DETECTOR SCHEDULE

DETECTOR NUMBER	APPROACH	TYPE				
		APS PUSH BUTTON	INDUCTION LOOP (2)			VIDEO
			STANDARD	DELAY/ EXTEND *	CALL UNIT *	
23	EB ROUTE AC	1				
44	SB BLUFF CREEK	1				
24	WB ROUTE AC	1				
83	SB BLUFF CREEK	1				
84	NB BLUFF CREEK	1				
63	WB ROUTE AC	1				
64	EB ROUTE AC	1				
43	NB BLUFF CREEK	1				
TOTAL		8				

QUANTITIES INCLUDE 8 PUSH BUTTON EXTENDERS IF REACH EXCEEDS 10"

170 INPUT FILE ASSIGNMENTS

	CHANNEL	1	2	3	4	5	6	7	8	9	10	11	12	13	14
"I"	U														
	L														
"J"	U														
	L														

TOTAL NUMBER OF DETECTOR CARDS(2-CHANNEL) = (2)

* ITEMS FOR WHICH SEPARATE PAYMENT WILL NOT BE MADE.

*** USE D3-1 FOR ONE LINE. USE D3-1B FOR TWO LINE.

(1) MoDOT "D" PLUG SHALL BE WIRED INTO ALL NEMA CONTROLLERS WITH 7C HARDWIRE INTERCONNECT.

(2) PAYMENT IS MADE FOR THE NUMBER OF 2-CHANNEL DETECTOR CARDS AS SHOWN BELOW THE ASSIGNMENT CHART.

170 OUTPUT FILE ASSIGNMENTS

FR1								MONITOR
FR2								
FR3								
FR4								

170 AUXILIARY OUTPUT FILE

FR5							X
FR6							

SIGNAL PLAN SHEET
SHEET 25 OF 26

ROUTE AC & BLUFF CREEK DR
INTERSECTION

D-37C

STATE OF MISSOURI
BRYAN C. DONZE
NUMBER PE-2023007176
PROFESSIONAL ENGINEER

DATE PREPARED 01/05/2026

ROUTE	STATE
AC	MO
DISTRICT	SHEET NO.
CD	103

COUNTY: BOONE
JOB NO.: JCD0123
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)

D37C - POWER SUPPLY/ CONTROLLER

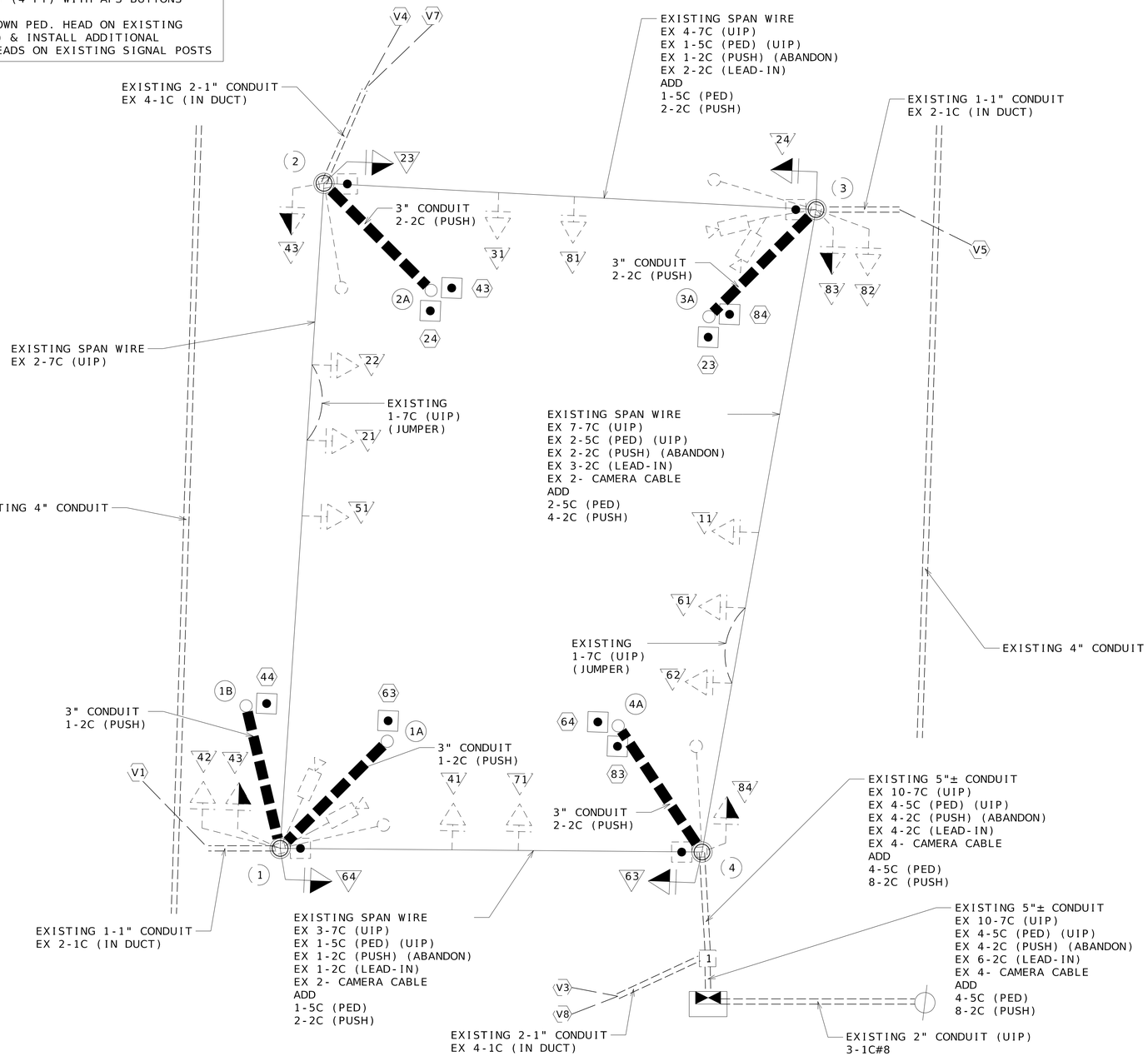
ROUTE AC (GRINDSTONE PKWY) & BLUFF CREEK DR
COLUMBIA, MO

EFFECTIVE 12-01-17

WIRING DIAGRAM

REMOVE EXISTING PUSH BUTTONS FROM
EXISTING SIGNAL POST AND CONSTRUCT PED
PUSH BUTTON POST (4 FT) WITH APS BUTTONS

EXISTING COUNTDOWN PED. HEAD ON EXISTING
SIGNAL POST(UIP) & INSTALL ADDITIONAL
COUNTDOWN PED HEADS ON EXISTING SIGNAL POSTS



LEGEND

3"	CONDUIT CONTAINING CABLE WITH SIZE
	CABLE
X-Xc	MULTI-CONDUCTOR CABLE #16 AWG (UNLESS OTHERWISE INDICATED)
LIC	#14 AWG DETECTOR LEAD-IN CABLE (2C TWISTED SHIELDED)
X	PULL BOX WITH NUMBER
X	POST WITH NUMBER
X	POST WITH MAST ARM
X	POST WITH MAST ARM AND LUMINAIRE
X	DETECTOR WITH NUMBER
X	SIGNAL HEAD WITH NUMBER
	SIGNAL CONTROLLER
	POWER SUPPLY
	LIGHTING CONTROLLER

SIGNAL PLAN SHEET
SHEET 26 OF 26

ROUTE AC & BLUFF CREEK DR

INTERSECTION

D-37D

BRYAN C. DONZE
NUMBER PE-2023007176
PROFESSIONAL ENGINEER
STATE OF MISSOURI

DATE PREPARED
01/05/2026

ROUTE	STATE
AC	MO
DISTRICT	SHEET NO.
CD	104

COUNTY
BOONE

JOB NO.
JCD0123

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)

D37D - WIRING DIAGRAM

ROUTE AC (GRINDSTONE PKWY) &
BLUFF CREEK DR
COLUMBIA, MO

SIGNS						CONCRETE FOOTINGS EMBEDDED	STRUCTURAL STEEL POSTS*						PIPE POSTS*					BACKING BARS**				U-CHANNEL POST	PERFORATED SQUARE STEEL TUBE											BREAK-AWAY ASSEMBLY	REMARKS AND OTHER REQUIRED ITEMS
902 SIGNAL SIGNS TABULATED ON D-37A SHEET																						2-INCH POST						2.5-INCH POST						
																									ANCHORS						ANCHORS			
SIGN NO.	SIGN SIZE	STATION OR LOG MILE	HORIZ CLEAR IF NOT STD	LOCATION	SIGN DTL SHT NO.	ITEM NO. 9031010	POST DES NO.	POST NO. 1	POST NO. 2	POST NO. 3	LBS PER FT	TOTAL ITEM NO. 9031210	PIPE SIZE	POST NO. 1	POST NO. 2	LBS PER FT	TOTAL ITEM NO. 9031220	2" X 3/8" BARS AT 2.55 LBS/FT NO.	LGTH	TOTAL	TOTAL	ITEM NO. 9031250A	POST NO. 1	POST NO. 2	TOTAL ITEM NO. 9031270A	DRIVEN 12 GA. ITEM NO. 9031271A	DRIVEN 7 GA. ITEM NO. 9031273A	CONCRETE 7 GA. ITEM NO. 9031274	POST NO. 1	POST NO. 2	TOTAL ITEM NO. 9031280	2.25" INSERT (6 FT) ITEM NO. 9031272A	DRIVEN 7 GA. ITEM NO. 9031281A	CONCRETE 7 GA. ITEM NO. 9031285	ITEM NO. 9031241	
						CY		LF	LF	LF		LBS	IN	LF	LF		LBS	EACH	IN.	LF	LBS	LF	LF	LF	LF	EACH	EACH	EACH			LF	EACH	EACH	EACH	EACH	
1		21+21		LT																															USE EXISTING SIGNS AND POSTS
SUBTOTAL																																			
TOTAL																					**										1		1		

*BREAKAWAY ASSEMBLY IS INCIDENTAL FOR STRUCTURAL STEEL AND PIPE POSTS.
**BACKING BARS ARE TOTALED WITH STRUCTURAL STEEL OR PIPE POSTS.

ROUND PIPE POST AND FOOTING DATA TABLE

NOM. SIZE (IN.)	WEIGHT LBS/FT	WEIGHT LBS/IN	STUB LENGTH	FOOTING DIA.	FOOTING DEPTH	CONCRETE C.Y.
2½	5.79	0.48	4'- 3½"	12"	4~6"	0.13
4	10.79	0.90	5'- 3½"	18"	5~6"	0.36

STRUCTURAL STEEL POST AND FOOTING DATA TABLE

POST DES. NO.	POST NOM. SIZE	POST WEIGHT LBS/FT	POST WEIGHT LBS/IN	POST STUB LENGTH	FOOTING DIA.	FOOTING LEVEL GROUND DEPTH	FOOTING LEVEL GROUND C.Y.	FOOTING 6:1 GRADE DEPTH	FOOTING 6:1 GRADE C.Y.	FOOTING 4:1 GRADE DEPTH	FOOTING 4:1 GRADE C.Y.	FOOTING 3:1 OR 2:1 GRADE DEPTH	FOOTING 3:1 OR 2:1 GRADE C.Y.
1	W6	9.0	0.75	3'-0"	15"	3'-0"	0.14	3'-2"	0.15	3'-3"	0.16	3'-6"	0.17
2	W6	15.0	1.25	4'-0"	24"	4'-0"	0.47	4'-2"	0.50	4'-3"	0.51	4'-6"	0.54
3	W8	18.0	1.50	4'-6"	28"	4'-6"	0.71	4'-8"	0.73	4'-9"	0.74	5'-0"	0.78
4	W10	22.0	1.83	5'-0"	36"	5'-0"	1.31	5'-2"	1.36	5'-3"	1.39	5'-6"	1.45
5	W10	26.0	2.17	5'-0"	36"	5'-0"	1.31	5'-3"	1.37	5'-5"	1.43	5'-9"	1.52
6	W12	35.0	2.92	5'-6"	36"	5'-6"	1.44	5'-9"	1.52	5'-11"	1.56	6'-3"	1.65

D-29

1/5/2026
STATE OF MISSOURI
BENJAMIN A. ROSS
NUMBER E-30054
REGISTERED PROFESSIONAL ENGINEER
Benjamin A. Ross

EFFECTIVE: 07-01-2024

BENJAMIN A. ROSS
REGISTERED PROFESSIONAL ENGINEER E-30054

DATE PREPARED
1/5/2026

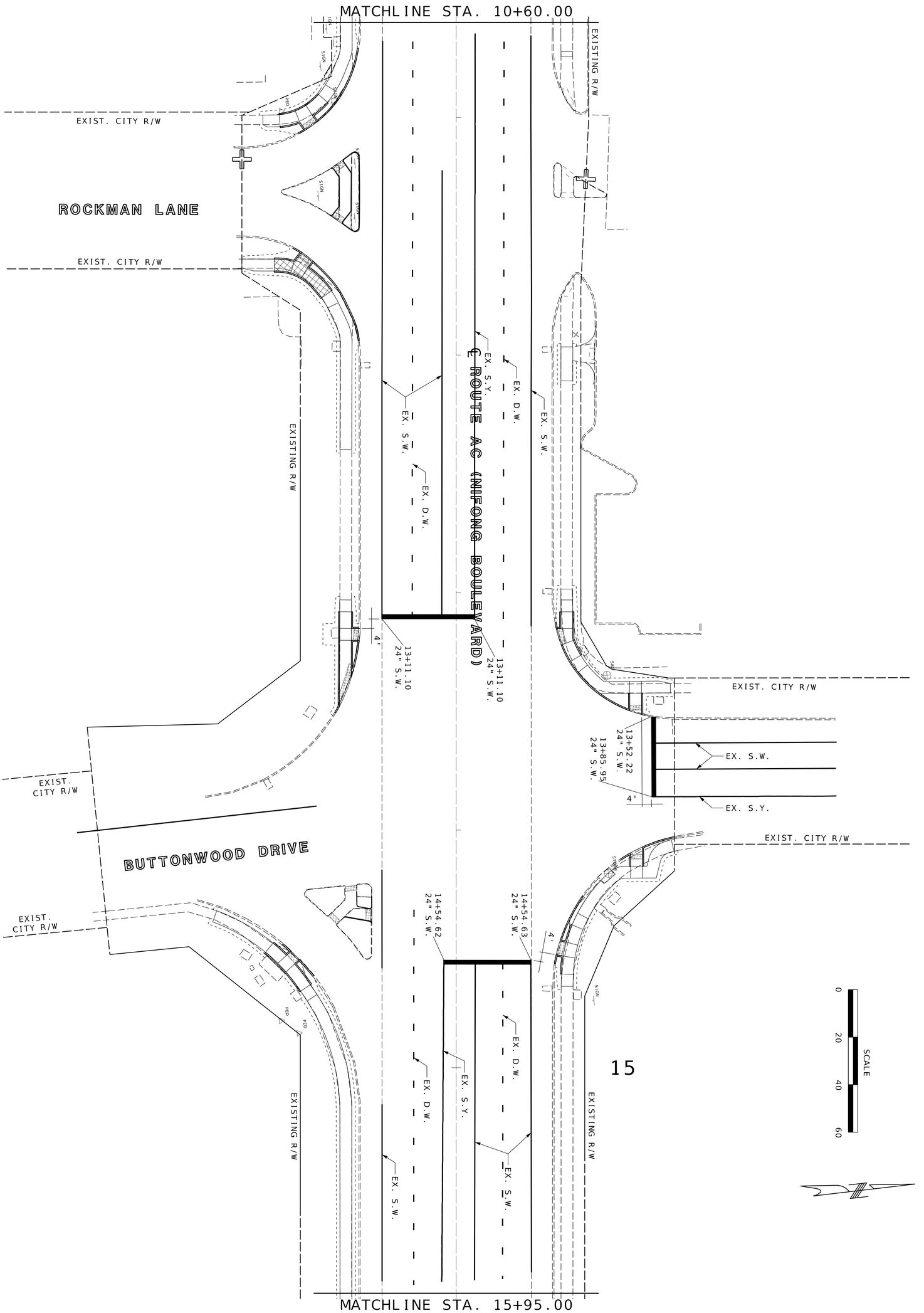
ROUTE: AC | STATE: MO
DISTRICT: CD | SHEET NO.: 105
COUNTY: BOONE
JOB NO.: JCD0123
CONTRACT ID.:
PROJECT NO.:
BRIDGE NO.:

DESCRIPTION | DATE

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

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MO Engineering Corp. # 2004005518

SIGNING SHEET
SHEET 1 OF 1



STRIPING
PLAN SHEETS
SHEET 1 OF 2

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

DATE	DESCRIPTION

BRIDGE NO.

PROJECT NO.

CONTRACT ID.
JCD0123

JOB NO.
COUNTY
BOONE

SHEET NO.
106

DISTRICT
CD

ROUTE
AC

STATE
MO

DATE PREPARED
1/5/2026

BENJAMIN A. KISS
NUMBER E-30054
REGISTERED PROFESSIONAL ENGINEER E-30054
STATE OF MISSOURI
PROFESSIONAL ENGINEER
1/5/2026

SCALE

0 20 40 60

EXISTING R/W

EXISTING R/W

105

℄ ROUTE AC (GRINDSTONE PARKWAY)

104+65.75
24" S.W.

104+81.53
24" S.W.

104+99.10
YEILD TRIANGLE

4"

SIGN

20.97'

105+12.35
YEILD TRIANGLE

SIGN

EXISTING R/W

℄ PONDEROSA STREET

EX. S.Y.

EXISTING R/W

1/5/2026

STATE OF MISSOURI
BENJAMIN A. ROSS
NUMBER E-30054
REGISTERED PROFESSIONAL ENGINEER

Benjamin A. Ross

BENJAMIN A. ROSS
REGISTERED PROFESSIONAL ENGINEER E-30054

DATE PREPARED
1/5/2026

ROUTE	STATE
AC	MO

DISTRICT	SHEET NO.
CD	107

COUNTY
BOONE

JOB NO.
JCD0123

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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STRIPING
PLAN SHEETS
SHEET 2 OF 2