DESIGN DESIGNATION

A.A.D.T. - 2024 = 26,288
A.A.D.T. - 2044 = 27,773
D.H.V. = 7.5%
T = 10%
V = 40 M.P.H.
D = 51/49%

FUNCTIONAL CLASSIFICATION-OTHER PRINCIPAL ARTERIAL

NORMAL RIGHT-OF-WAY TO BE ACQUIRED FOR THIS PROJECT

PERMANENT AND TEMPORARY EASEMENTS TO BE ACQUIRED

CONVENTIONAL SYMBOLS
(USED IN PLANS)

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

NOTE: DASHED OR OPEN SYMBOLS INDICATE EXISTING FEATURES

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

PLANS FOR
STATE HIGHWAY

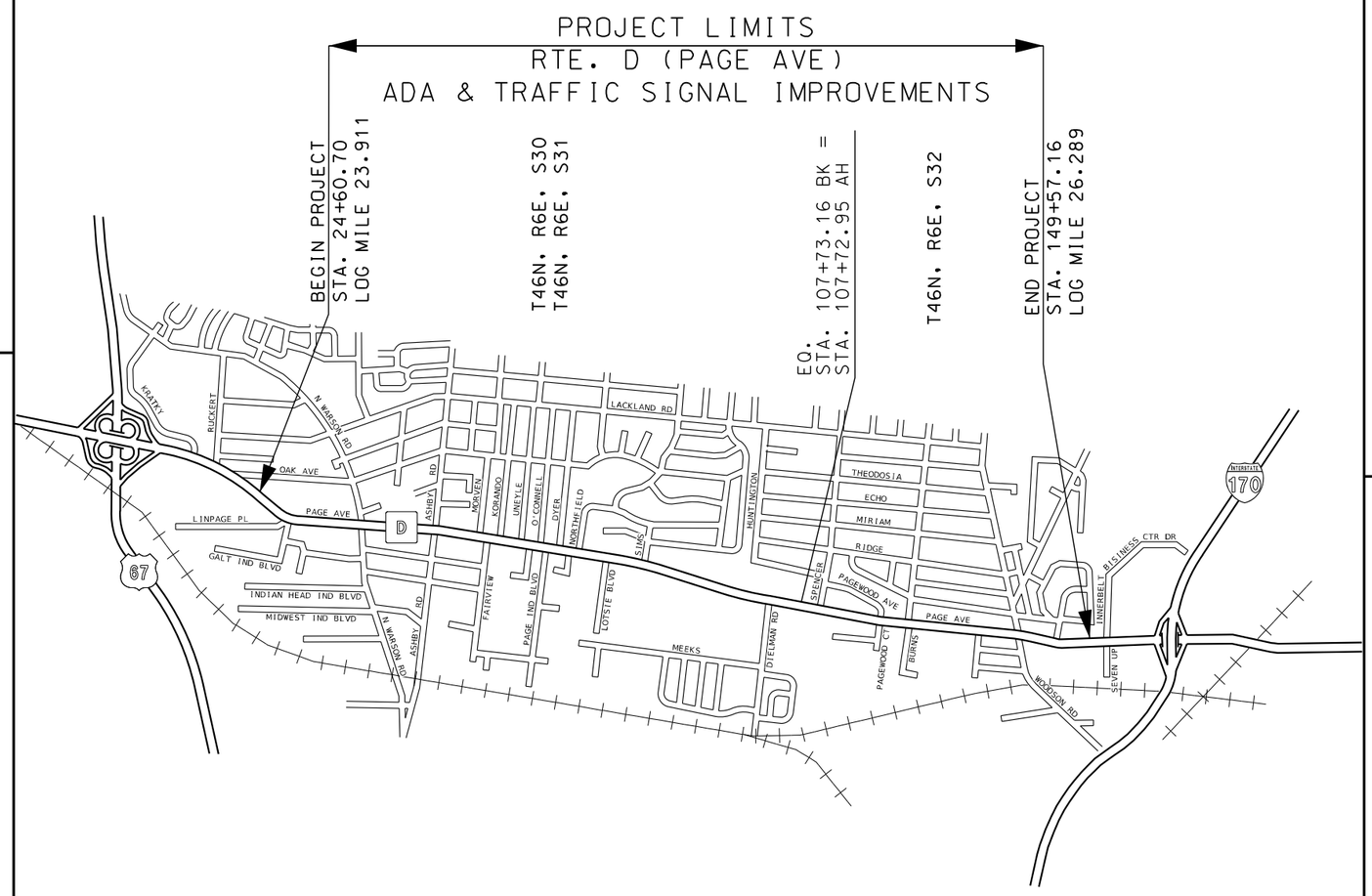
ST. LOUIS COUNTY



KEY MAP
LOCATION OF ST. LOUIS COUNTY

NOT TO SCALE

PROJECT LIMITS
RTE. D (PAGE AVE)
ADA & TRAFFIC SIGNAL IMPROVEMENTS



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

INDEX OF SHEETS

DESCRIPTION	SHEET NUMBER
TITLE SHEET	1
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QUANTITIES SHEETS (QU) (9 SHEETS)	3
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SPECIAL SHEETS (SS)	47-64
UTILITY PLANS (UP)	65-92
REFERENCE POINTS (RP)	93
COORDINATE POINTS (CP)	94
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LIGHTING (LT)	172-176
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LENGTH OF PROJECT

BEGINNING OF PROJECT	STA. 24 + 60.70	
END OF PROJECT	STA. 149 + 57.16	
APPARENT LENGTH	12.496.46	FEET
EQUATIONS:		
STA. 107+73.16 BK = STA. 107+72.95 AH	+0.21	FEET
CORRECTION	+0.21	FEET
TOTAL CORRECTIONS	0.21	FEET
NET LENGTH OF PROJECT	12,496.67	FEET
STATE LENGTH	2.367	MILES
FOR INFORMATION ONLY ESTIMATED DISTURBED ACRES	2.93	ACRES

STATE OF MISSOURI
ALLISON M. BRUNER
NUMBER PE-2019005896
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED, AND DATED ELECTRONICALLY
Digitally signed by Allison Bruner
Date: 2025.12.19 09:38:33-06'00'

DATE PREPARED
12/17/2025

ROUTE	STATE
D	MO
DISTRICT	SHEET NO.
SL	1

COUNTY
ST. LOUIS

JOB NO.
JSL0186

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

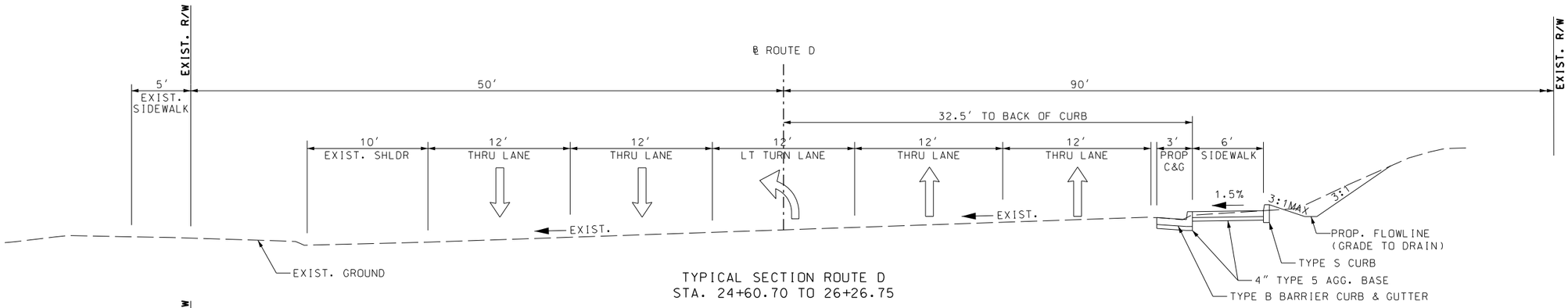
DATE	DESCRIPTION

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

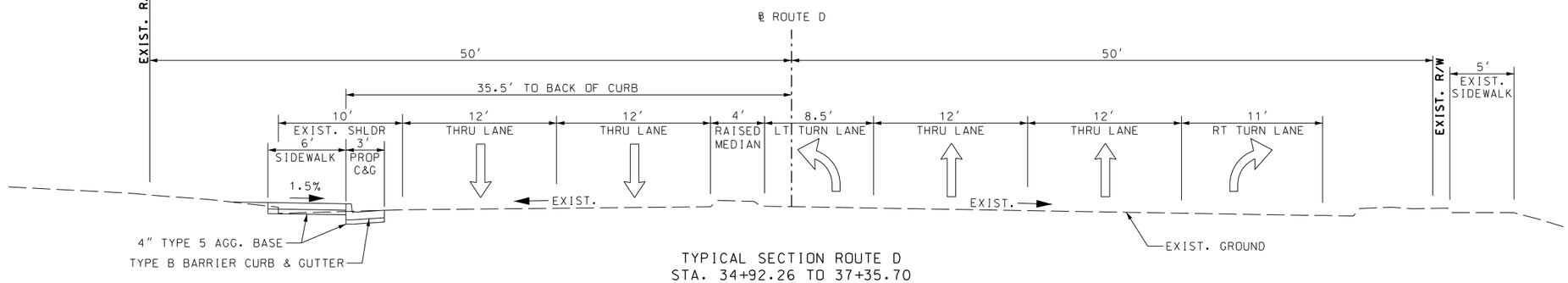
Burns & McDonnell Engineering Co., Inc.
425 South Woods Mill Road
Chesterfield, Missouri 63017
314-682-1500
Certificate of Authority
No. : 000165

BMcD Project No. 170361

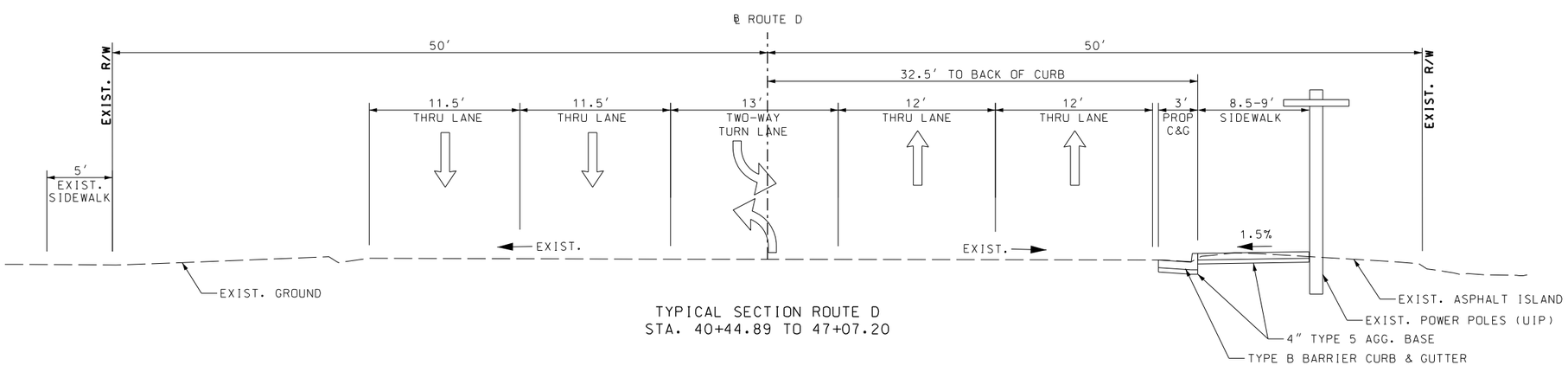
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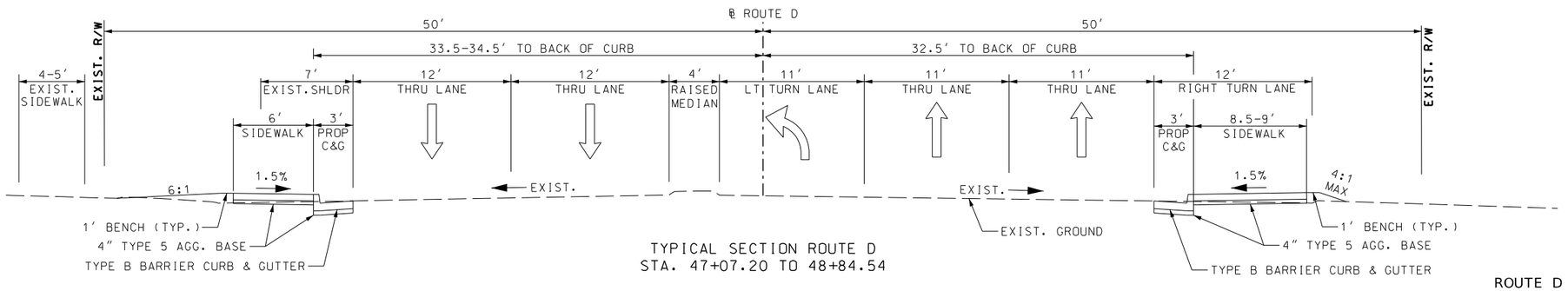
TYPICAL SECTION ROUTE D
STA. 24+60.70 TO 26+26.75



TYPICAL SECTION ROUTE D
STA. 34+92.26 TO 37+35.70



TYPICAL SECTION ROUTE D
STA. 40+44.89 TO 47+07.20



TYPICAL SECTION ROUTE D
STA. 47+07.20 TO 48+84.54

ROUTE D TYPICAL SECTION
SHEET 01 OF 03

ALLISON M. BRUNER
NUMBER PE-2019005896
STATE OF MISSOURI
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED, AND DATED ELECTRONICALLY

Digitally signed by Allison Bruner
Date: 2025.12.19 09:38:33-06'00'

DATE PREPARED
12/17/2025

ROUTE	STATE
D	MO
DISTRICT	SHEET NO.
SL	2

COUNTY
ST. LOUIS

JOB NO.
JSL0186

CONTRACT ID.

PROJECT NO.

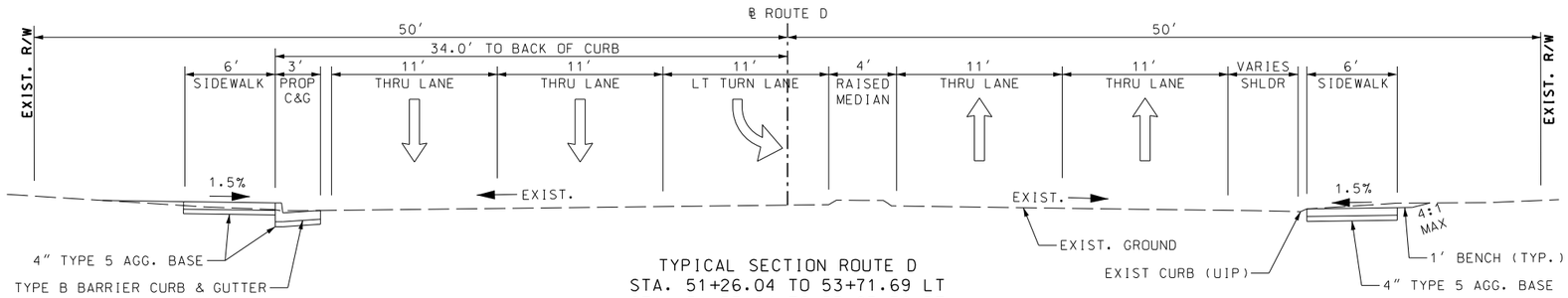
BRIDGE NO.

DESCRIPTION	DATE

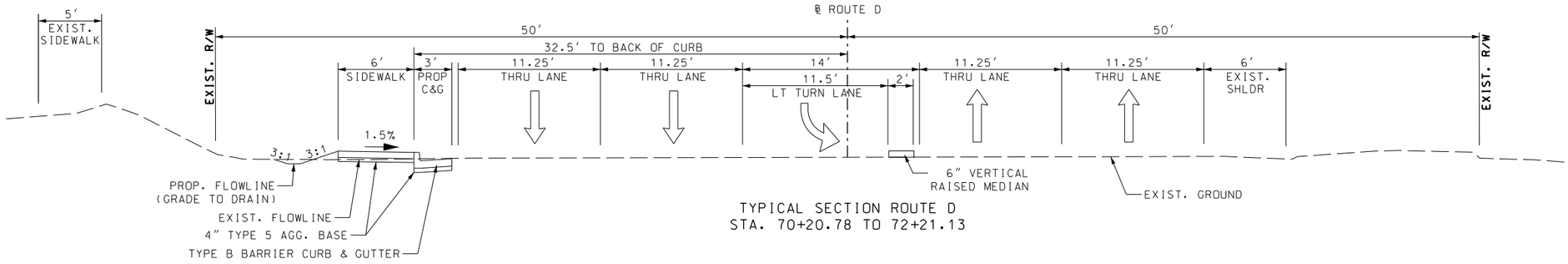
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

Burns & McDonnell Engineering Co., Inc.
425 South Woods Mill Road
Chesterfield, Missouri 63017
314-682-1500
Certificate of Authority
No. : 000165
BMcD Project No. 170361

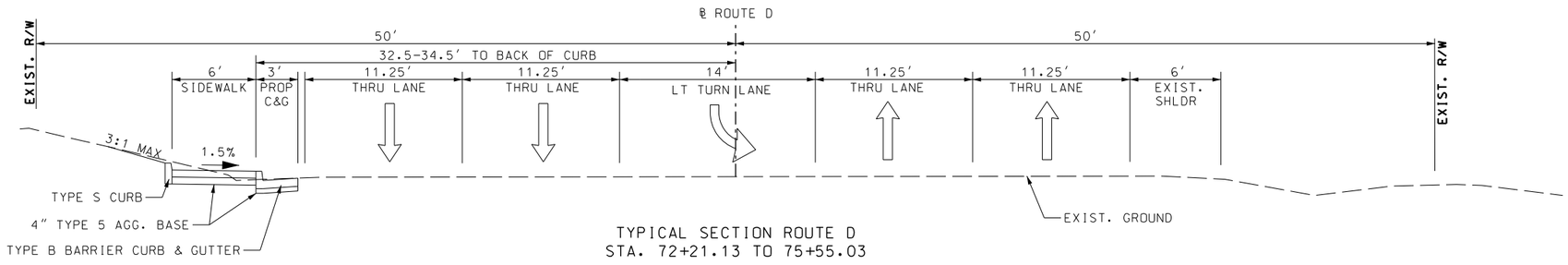
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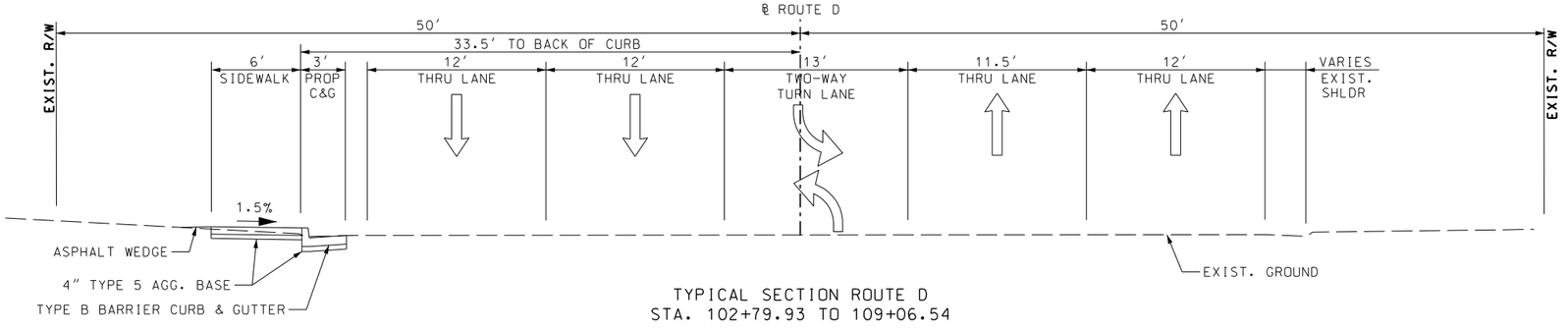
TYPICAL SECTION ROUTE D
STA. 51+26.04 TO 53+71.69 LT
STA. 51+57.04 TO 53+03.30 RT



TYPICAL SECTION ROUTE D
STA. 70+20.78 TO 72+21.13



TYPICAL SECTION ROUTE D
STA. 72+21.13 TO 75+55.03



TYPICAL SECTION ROUTE D
STA. 102+79.93 TO 109+06.54

ROUTE D TYPICAL SECTION
SHEET 02 OF 03

STATE OF MISSOURI
ALLISON M. BRUNER
NUMBER PE-2019005896
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED, AND DATED ELECTRONICALLY
Digitally signed by Allison Bruner
Date: 2025.12.19 09:38:33-06'00'

DATE PREPARED: 12/18/2025

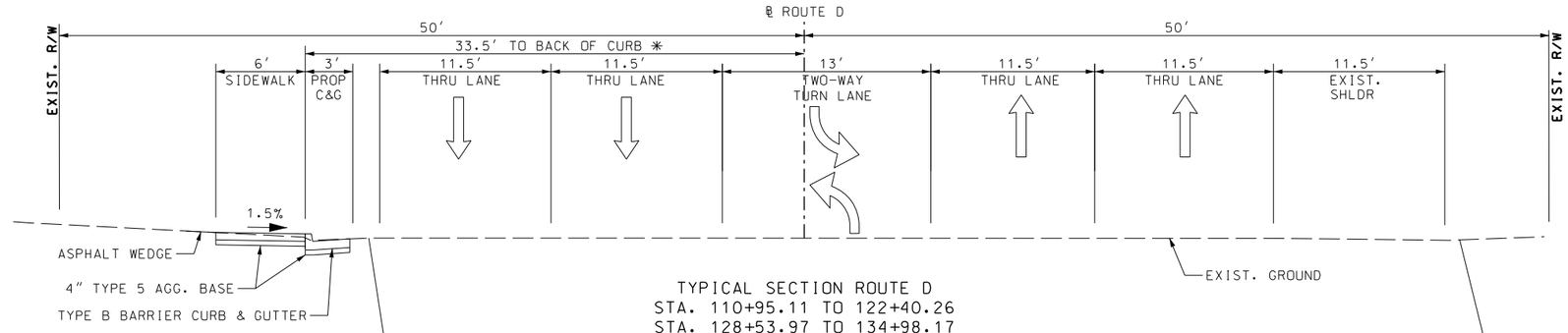
ROUTE	STATE
D	MO
DISTRICT	SHEET NO.
SL	2

COUNTY: ST. LOUIS
JOB NO.: JSL0186
CONTRACT ID.:
PROJECT NO.:
BRIDGE NO.:

DESCRIPTION	DATE

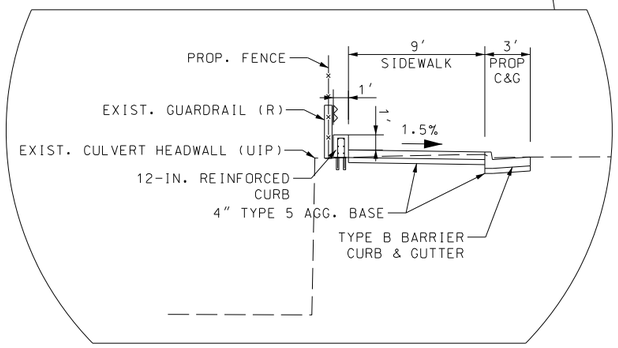
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

Burns & McDonnell Engineering Co., Inc.
425 South Woods Mill Road
Chesterfield, Missouri 63017
314-682-1500
Certificate of Authority
No. : 000165
BMcD Project No. 170361

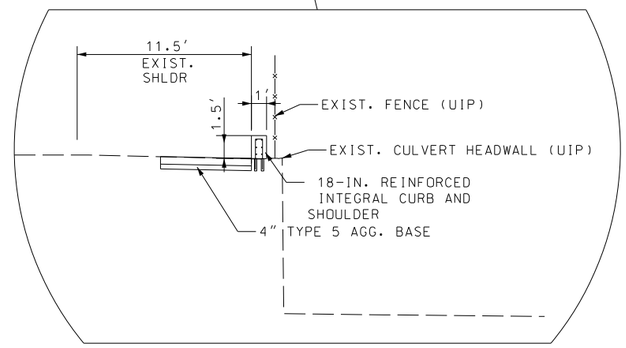


TYPICAL SECTION ROUTE D
STA. 110+95.11 TO 122+40.26
STA. 128+53.97 TO 134+98.17

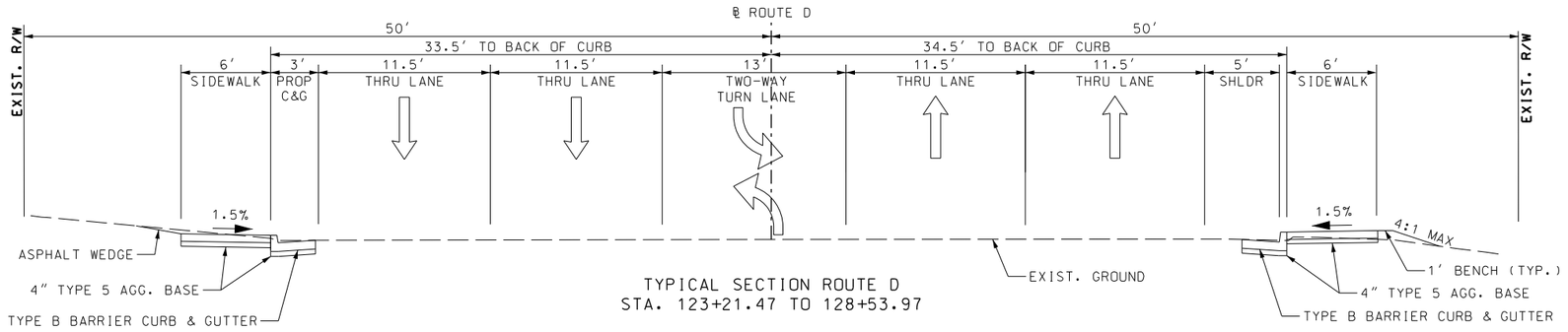
✳ STA. 132+75.41 TO STA. 135+00.00 - TRANSITIONS FROM 33.5′ TO 43.5′



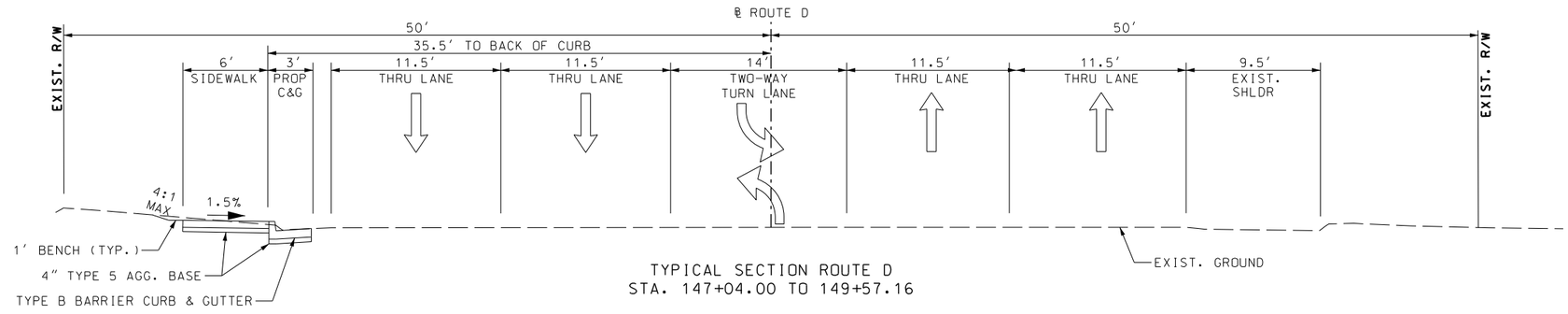
TYPICAL SECTION ROUTE D
STA. 120+31.64 TO 120+68.53 LT



TYPICAL SECTION ROUTE D
STA. 120+42.21 TO 120+62.48 RT



TYPICAL SECTION ROUTE D
STA. 123+21.47 TO 128+53.97



TYPICAL SECTION ROUTE D
STA. 147+04.00 TO 149+57.16

ROUTE D TYPICAL SECTION
SHEET 03 OF 03

ALLISON M. BRUNER
NUMBER PE-2019005896
PROFESSIONAL ENGINEER
STATE OF MISSOURI
THIS SHEET HAS BEEN SIGNED, SEALED, AND DATED ELECTRONICALLY
Digitally signed by Allison Bruner
Date: 2025.12.19 09:38:33-06'00'

DATE PREPARED
12/17/2025

ROUTE	STATE
D	MO
DISTRICT	SHEET NO.
SL	2

COUNTY
ST. LOUIS

JOB NO.
JSL0186

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)

Burns & McDonnell Engineering Co., Inc.
425 South Woods Mill Road
Chesterfield, Missouri 63017
314-682-1500
Certificate of Authority
No. : 000165
BMcD Project No. 170361

REMOVAL OF IMPROVEMENTS (ROADWAY) (TABLE 1 OF 5)

PLAN SHEET NO.	ROADWAY	STATION	STATION	OFFSET	LOCATION	ITEM TO BE REMOVED	AMOUNT	UNIT	REMARKS
3	RTE D	24+60.70	26+08.63	32	RT	CURB	152	LF	
3	RTE D	24+60.70	26+08.63	32	RT	SAWCUT	159	LF	
3	RTE D	26+02.81	26+21.14	55	LT	SIDEWALK	39	LF	
3	RTE D	26+02.81	-	55	LT	SAWCUT	6	LF	
5	RTE D	34+89.78	35+59.87	33	LT	PAVEMENT	56	SY	
5	RTE D	34+91.99	35+59.87	41	LT	CURB	70	LF	
5 & 6	RTE D	34+91.99	37+55.38	33	LT	SAWCUT	281	LF	
5	RTE D	35+70.26	35+93.88	-	LT	ENTRANCE	55	SY	
5	RTE D	35+70.26	35+93.88	47	LT	SAWCUT	24	LF	
5	RTE D	36+08.75	36+40.69	-	LT	ENTRANCE	67	SY	
5 & 6	RTE D	36+08.75	36+40.69	47	LT	SAWCUT	32	LF	
5 & 6	RTE D	36+49.81	36+95.81	40	LT	CURB	46	LF	
5	RTE D	36+49.81	36+95.81	33	LT	PAVEMENT	40	SY	
5 & 6	RTE D	37+01.81	37+32.19	52	RT	SIDEWALK	32	LF	
5 & 6	RTE D	37+04.61	37+34.72	-	LT	ENTRANCE	67	SY	
5 & 6	RTE D	37+04.61	37+34.72	48	LT	SAWCUT	30	LF	
6	RTE D	37+27.11	37+32.19	55	RT	SAWCUT	6	LF	
6	RTE D	37+45.57	37+55.38	41	LT	CURB	11	LF	
6	RTE D	37+62.18	38+17.80	42	RT	CURB	73	LF	
6	RTE D	37+62.18	38+15.62	39	RT	SAWCUT	67	LF	
6	RTE D	37+74.45	38+17.80	42	RT	SIDEWALK	60	LF	
6	RTE D	37+93.22	38+13.07	-	LT	SIDEWALK	18	SY	TRAFFIC ISLAND
6	RTE D	37+93.22	38+13.07	33	LT	SAWCUT	68	LF	TRAFFIC ISLAND
6	RTE D	38+35.08	38+43.50	145	RT	SAWCUT	6	LF	
6	RTE D	38+64.63	38+91.06	32	RT	SAWCUT	91	LF	TRAFFIC ISLAND
6	RTE D	38+65.68	38+83.50	33	RT	PAVEMENT	24	SY	TRAFFIC ISLAND
6 - 8	RTE D	38+97.23	50+30.89	30	RT	SAWCUT	1201	LF	
6	RTE D	38+98.84	39+48.48	59	RT	CURB & GUTTER	56	LF	
6	RTE D	39+18.42	40+22.27	41	LT	SAWCUT	105	LF	
6	RTE D	39+26.32	43+13.43	32	RT	PAVEMENT	350	SY	SHOULDER
6	RTE D	39+36.69	39+56.67	60	LT	SIDEWALK	24	LF	
6	RTE D	39+36.69	39+39.27	64	LT	SAWCUT	4	LF	
6	RTE D	39+52.66	40+61.58	41	RT	CURB & GUTTER	109	LF	
6	RTE D	39+64.26	40+02.41	-	LT	ENTRANCE	132	SY	
6	RTE D	39+64.26	40+02.41	62	LT	SAWCUT	45	LF	
6	RTE D	40+02.09	40+44.85	50	LT	SIDEWALK	44	LF	
6	RTE D	40+11.28	40+22.27	41	LT	CURB	11	LF	
6	RTE D	40+44.85	-	50	LT	SAWCUT	5	LF	
6	RTE D	40+64.21	41+16.12	-	RT	ENTRANCE	84	SY	
6	RTE D	40+64.21	41+16.12	44	RT	SAWCUT	52	LF	
6	RTE D	41+19.37	41+84.95	41	RT	CURB	63	LF	
6	RTE D	41+88.18	42+63.64	41	RT	CURB	73	LF	
6 & 7	RTE D	42+67.16	42+98.96	-	RT	ENTRANCE	64	SY	
6 & 7	RTE D	42+67.16	42+98.96	46	RT	SAWCUT	32	LF	
7	RTE D	43+03.93	45+83.79	33	RT	PAVEMENT	378	SY	SHOULDER
7	RTE D	43+13.43	45+83.79	32	RT	CURB	271	LF	
7	RTE D	45+93.05	46+26.10	-	RT	ENTRANCE	70	SY	
7	RTE D	45+93.05	46+26.10	47	RT	SAWCUT	33	LF	
7	RTE D	46+35.33	47+60.24	32	RT	PAVEMENT	165	SY	SHOULDER
7	RTE D	46+35.33	47+60.24	32	RT	CURB	125	LF	
8	RTE D	46+35.33	50+30.89	34	RT	FULL DEPTH PAVEMENT	242	SY	TURN LANE
7	RTE D	47+04.70	47+97.54	35	LT	PAVEMENT	62	SY	
7 & 8	RTE D	47+04.70	49+85.33	31	LT	SAWCUT	294	LF	
7	RTE D	47+07.20	47+18.47	31	LT	CURB	17	LF	
7	RTE D	47+08.03	47+96.85	51	LT	SIDEWALK	89	LF	
7	RTE D	47+09.93	-	51	LT	SAWCUT	4	LF	
7	RTE D	47+66.23	47+86.23	-	RT	ENTRANCE	37	SY	
7	RTE D	47+66.23	47+86.23	44	RT	SAWCUT	20	LF	
7 & 8	RTE D	47+94.55	48+46.09	33	RT	CURB	52	LF	
7 & 8	RTE D	47+94.55	48+46.09	33	RT	PAVEMENT	72	SY	
7 & 8	RTE D	47+97.54	48+27.82	50	LT	SAWCUT	30	LF	
7 & 8	RTE D	47+97.54	48+27.82	-	LT	ENTRANCE	102	SY	
8	RTE D	48+27.82	48+54.70	48	LT	SIDEWALK	28	LF	
8	RTE D	48+34.43	48+49.69	41	LT	CURB	16	LF	
8	RTE D	48+34.43	48+49.69	31	LT	PAVEMENT	17	SY	
8	RTE D	48+53.84	49+00.86	50	RT	SAWCUT	49	LF	
8	RTE D	48+55.70	48+89.97	-	LT	ENTRANCE	78	SY	
8	RTE D	48+55.70	48+89.97	48	LT	SAWCUT	34	LF	
8	RTE D	48+57.51	49+00.86	-	RT	ENTRANCE	80	SY	
8	RTE D	48+91.78	49+81.41	43	LT	SIDEWALK	90	LF	
8	RTE D	48+96.23	49+85.33	31	LT	PAVEMENT	83	SY	
8	RTE D	48+96.23	49+84.30	41	LT	CURB	89	LF	
8	RTE D	49+06.99	-	44	RT	SIGN	1	EA	'BEGIN RIGHT TURN LANE' SIGN
8	RTE D	49+37.05	50+00.93	41	RT	CURB	65	LF	
8	RTE D	49+81.41	49+82.20	44	LT	SAWCUT	6	LF	
8	RTE D	50+04.66	50+26.07	48	RT	CURB	61	LF	
8	RTE D	50+91.60	51+00.55	73	RT	CURB	28	LF	
8	RTE D	50+91.60	51+01.04	73	RT	SAWCUT	34	LF	
8	RTE D	50+95.94	51+00.94	100	RT	SAWCUT	5	LF	
8	RTE D	50+97.00	51+01.04	73	RT	SIDEWALK	30	LF	
8 & 9	RTE D	51+24.59	53+80.72	31	LT	SAWCUT	278	LF	
8	RTE D	51+25.93	52+05.72	31	LT	PAVEMENT	24	SY	
8	RTE D	51+25.93	52+05.72	45	LT	SIDEWALK	82	LF	
8	RTE D	51+25.93	52+05.72	45	LT	CURB	82	LF	
8	RTE D	51+57.09	51+71.75	40	RT	SIDEWALK	15	LF	
8	RTE D	51+58.93	-	35	RT	SAWCUT	5	LF	
8	RTE D	51+73.85	52+22.67	-	RT	ENTRANCE	99	SY	
8	RTE D	51+73.85	52+22.67	48	RT	SAWCUT	49	LF	
8	RTE D	51+85.93	52+35.40	32	RT	SAWCUT	80	LF	
8	RTE D	52+13.91	52+43.47	-	LT	ENTRANCE	56	SY	
8	RTE D	52+13.91	52+43.47	46	LT	SAWCUT	30	LF	

REMOVAL OF IMPROVEMENTS (ROADWAY) (TABLE 2 OF 5)

PLAN SHEET NO.	ROADWAY	STATION	STATION	OFFSET	LOCATION	ITEM TO BE REMOVED	AMOUNT	UNIT	REMARKS
8	RTE D	52+35.40	52+45.00	35	RT	SIDEWALK	10	LF	
8	RTE D	52+37.42	53+03.30	35	RT	SAWCUT	70	LF	
8	RTE D	52+44.23	52+92.88	34	LT	SIDEWALK	50	LF	
8	RTE D	52+51.45	52+82.61	34	LT	CURB	32	LF	
8	RTE D	52+51.45	52+82.61	31	LT	PAVEMENT	9	SY	
8	RTE D	52+93.52	53+23.00	-	LT	ENTRANCE	42	SY	
8	RTE D	52+93.52	53+23.00	42	LT	SAWCUT	29	LF	
8 & 9	RTE D	53+23.83	53+75.91	42	LT	SIDEWALK	53	LF	
8 & 9	RTE D	53+31.23	53+76.67	34	LT	CURB	52	LF	
8	RTE D	53+32.23	53+66.67	31	LT	PAVEMENT	9	SY	
11	RTE D	68+94.68	69+43.70	35	RT	CURB	50	LF	
11	RTE D	68+94.68	69+43.70	33	RT	PAVEMENT	13	SY	
11 & 12	RTE D	68+94.68	70+45.59	33	RT	SAWCUT	171	LF	
11	RTE D	69+44.34	70+07.11	-	RT	ENTRANCE	99	SY	
11 & 12	RTE D	69+44.34	70+07.11	47	RT	SAWCUT	64	LF	
12	RTE D	70+07.61	70+27.90	35	RT	SIDEWALK	38	LF	
12	RTE D	70+14.47	70+43.03	35	RT	CURB	58	LF	
12	RTE D	70+20.78	72+14.64	30	LT	FULL DEPTH PAVEMENT	14	SY	
12	RTE D	70+20.78	70+81.45	30	LT	PAVEMENT	26	SY	SHOULDER
12	RTE D	70+20.78	75+58.34	30	LT	SAWCUT	566	LF	
12	RTE D	70+76.14	71+31.93	33	RT	SAWCUT	81	LF	
12	RTE D	70+78.65	71+31.93	37	RT	CURB	95	LF	
12	RTE D	70+78.65	71+31.93	33	RT	PAVEMENT	22	SY	
12	RTE D	70+78.81	70+94.09	46	RT	SIDEWALK	16	LF	
12	RTE D	70+90.44	71+25.64	-	LT	ENTRANCE	72	SY	
12	RTE D	70+90.44	71+25.64	45	LT	SAWCUT	35	LF	
12	RTE D	70+94.09	-	46	RT	SAWCUT	4	LF	
12	RTE D	71+28.08	72+14.81	30	LT	PAVEMENT	86	SY	SHOULDER
12	RTE D	72+22.97	72+64.85	-	LT	ENTRANCE	94	SY	
12	RTE D	72+22.97	72+64.85	44	LT	SAWCUT	46	LF	
12	RTE D	72+83.54	74+06.80	36	LT	CURB	124	LF	
12	RTE D	72+83.54	74+06.80	30	LT	PAVEMENT	85	SY	SHOULDER
12	RTE D	74+13.53	74+65.73	-	LT	ENTRANCE	71	SY	
12	RTE D	74+13.53	74+65.73	39	LT	SAWCUT	52	LF	
12	RTE D	74+81.26	75+55.51	36	LT	CURB	90	LF	
12	RTE D	74+81.36	75+48.21	31	LT	PAVEMENT	36	SY	SHOULDER
12	RTE D	75+48.21	75+58.52	32	LT	FULL DEPTH PAVEMENT	8	SY	NORTHFIELD DR.
12	RTE D	75+51.52	75+55.10	56	LT	SAWCUT	4	LF	
17	RTE D	99+23.38	99+33.82	40	LT	ADA RAMP	1	EA	
17	RTE D	100+60.29	100+62.88	48	RT	CURB	7	LF	
17	RTE D	100+60.29	100+88.53	47	RT	SAWCUT	53	LF	
17	RTE D	100+72.78	100+76.75	56	RT	CURB	25	LF	
17	RTE D	100+72.78	100+76.75	56	RT	SIDEWALK	40	LF	
17	RTE D	100+80.87	100+88.53	61	RT	CURB	32	LF	
17	RTE D	102+13.69	103+05.32	40	LT	CURB	92	LF	
17	RTE D	102+79.93	103+12.13	40	LT	SIDEWALK	34	LF	
17 & 18	RTE D	102+79.93	103+79.47	41	LT	SAWCUT	182	LF	
17 & 18	RTE D	103+13.94	103+52.00	50	LT	SAWCUT	38	LF	
17 & 18	RTE D	103+13.94	103+52.00	-	LT	ENTRANCE	49	SY	
18	RTE D	103+55.01	103+79.45	47	LT	SIDEWALK	7	LF	
18	RTE D	103+66.75	103+79.47	41	LT	CURB	13	LF	
18	RTE D	104+51.15	109+09.66	31	LT	SAWCUT	482	LF	
18	RTE D	104+61.31	106+01.78	-	LT	ENTRANCE	243	SY	
18	RTE D	104+61.31	106+01.78	40	LT	SAWCUT	140	LF	
18	RTE D	105+06.79	106+37.70	33	LT	CURB	32	LF	
18	RTE D	106+02.24	107+81.72	31	LT	PAVEMENT	1286	SY	
18	RTE D	106+02.24	106+49.89	40	LT	SAWCUT	48	LF	
18	RTE D	106+46.29	106+65.62	-	LT	ENTRANCE	20	SY	
18	RTE D	106+49.48	106+70.40	46	LT	SAWCUT	31	LF	
18	RTE D	106+70.40	107+12.53	40	LT	SAWCUT	42	LF	
18	RTE D	106+73.97	107+05.41	33	LT	CURB	32	LF	
18	RTE D	107+12.53	107+31.34	-	LT	ENTRANCE	19	SY	
18	RTE D	107+12.53	107+32.58	46	LT	SAWCUT	31	LF	
18	RTE D	107+32.58	107+63.54	40	LT	SAWCUT	31	LF	
18	RTE D	107+38.09	107+55.31	33	LT	CURB	18	LF	
18	RTE D	107+63.54	107+81.72	48	LT	SAWCUT	27	LF	
18	RTE D	107+63.83	107+81.72	-	LT	ENTRANCE	7	SY	
18	RTE D	107+81.72	107+99.91	-	LT	ENTRANCE	43	SY	
18	RTE D	107+81.72	107+99.91	48	LT	SAWCUT	18	LF	
18	RTE D	108+00.18	108+46.78	42	LT	WOODEN RETAINING WALL	58	LF	
18	RTE D	108+01.08	108+46.20	31	LT	PAVEMENT	36	SY	
18	RTE D	108+01.08	108+46.20	40	LT	SAWCUT	46	LF	
18	RTE D	108+12.01	108+35.19	33	LT	CURB	24	LF	
18	RTE D	108+46.72	108+62.53	-	LT	ENTRANCE	35	SY	
18	RTE D	108+46.72	108+62.53	45	LT	SAWCUT	16	LF	
18 & 19	RTE D	108+62.39	109+07.40	34	LT	SIDEWALK	37	LF	
19	RTE D	108+71.52	109+07.40	33	LT	CURB	47	LF	
19	RTE D	108+71.52	109+09.66	31	LT	PAVEMENT	11	SY	
19	RTE D	108+71.52	109+09.66	45	LT	SAWCUT	125	LF	
19	RTE D	109+26.24	109+67.99	34	RT	CURB	43	LF	
19	RTE D	109+26.24	109+67.69	34	RT	SIDEWALK	43	LF	
19	RTE D	109+26.30	109+69.67	31	RT	SAWCUT	57	LF	
19	RTE D	110+11.37	110+49.75	31	LT	PAVEMENT	23	SY	
19	RTE D	110+11.37	110+49.77	31	LT	SAWCUT	67	LF	
19	RTE D	110+14.07	110+49.75	33	LT	CURB	44	LF	
19	RTE D	110+16.23	110+49.77	43	LT	CURB	39	LF	
19	RTE D	110+16.72	110+49.75	33	LT	SIDEWALK	42	LF	
19	RTE D	110+95.11	111+12.69	33	LT	CURB	18	LF	
19	RTE D	110+95.11	111+12.69	31	LT	PAVEMENT	4	SY	
19 - 23	RTE D	110+95.11	134+99.71	31	LT	SAWCUT	2420	LF	
19	RTE D	110+95.13	111+20.86	34	LT	SIDEWALK	26	LF	

ROUTE D QUANTITIES
SHEET 01 OF 09

STATE OF MISSOURI
ALLISON M. BRUNER
NUMBER PE-2019005896
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED, AND DATED ELECTRONICALLY

Digitally signed by Allison Bruner
Date: 2025.12.19 09:38:34-06'00'

DATE PREPARED
12/17/2025

ROUTE	STATE
D	MO
DISTRICT	SHEET NO.
SL	3

COUNTY
ST. LOUIS

JOB NO.
JSL0186

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)

Burns & McDonnell Engineering Co., Inc.
425 South Woods Mill Road
Chesterfield, Missouri 63017
314-682-1500
Certificate of Authority
No. : 000165
BMcD Project No. 170361

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REMOVAL OF IMPROVEMENTS (ROADWAY) (TABLE 3 OF 5)

PLAN SHEET NO.	ROADWAY	STATION	STATION	OFFSET	LOCATION	ITEM TO BE REMOVED	AMOUNT	UNIT	REMARKS
19	RTE D	111+13.11	111+21.07	40	LT	CURB	8	LF	
19	RTE D	111+21.15	111+42.33	-	LT	ENTRANCE	38	SY	
19	RTE D	111+21.15	111+42.33	43	LT	SAWCUT	21	LF	
19	RTE D	111+42.53	111+78.06	31	LT	PAVEMENT	22	SY	
19	RTE D	111+42.53	111+78.06	39	LT	SAWCUT	36	LF	
19	RTE D	111+53.39	111+70.55	33	LT	CURB	18	LF	
19	RTE D	111+83.17	111+94.86	-	LT	ENTRANCE	27	SY	
19	RTE D	111+83.17	111+94.86	42	LT	SAWCUT	12	LF	
19	RTE D	111+98.67	112+29.51	31	LT	PAVEMENT	17	SY	
19	RTE D	111+98.67	112+29.51	38	LT	SAWCUT	31	LF	
19	RTE D	112+06.32	112+20.71	33	LT	CURB	15	LF	
19	RTE D	112+31.17	112+43.49	-	LT	ENTRANCE	28	SY	
19	RTE D	112+31.17	112+43.49	43	LT	SAWCUT	12	LF	
19	RTE D	112+50.07	112+78.88	31	LT	PAVEMENT	19	SY	
19	RTE D	112+50.07	112+78.88	39	LT	SAWCUT	29	LF	
19	RTE D	112+50.28	112+66.97	33	LT	CURB	17	LF	
19	RTE D	112+82.12	112+93.20	-	LT	ENTRANCE	32	SY	
19	RTE D	112+82.12	112+93.20	43	LT	SAWCUT	11	LF	
19	RTE D	112+95.42	113+56.50	31	LT	PAVEMENT	52	SY	
19	RTE D	112+95.42	113+56.50	40	LT	SAWCUT	61	LF	
19	RTE D	113+06.47	113+48.51	33	LT	CURB	43	LF	
19	RTE D	113+56.50	113+74.68	-	LT	ENTRANCE	26	SY	
19	RTE D	113+56.50	113+74.68	41	LT	SAWCUT	18	LF	
19	RTE D	113+85.90	113+96.68	-	LT	ENTRANCE	27	SY	
19	RTE D	113+85.90	113+96.68	43	LT	SAWCUT	11	LF	
19 & 20	RTE D	113+96.68	115+41.51	31	LT	PAVEMENT	155	SY	
19 & 20	RTE D	113+96.68	115+41.51	42	LT	SAWCUT	149	LF	
21 & 20	RTE D	114+07.01	115+31.25	33	LT	CURB	129	LF	
20	RTE D	115+41.24	115+60.86	-	LT	ENTRANCE	42	SY	
20	RTE D	115+41.24	115+60.86	47	LT	SAWCUT	20	LF	
20	RTE D	115+60.86	115+93.72	31	LT	PAVEMENT	35	SY	
20	RTE D	115+60.86	115+93.72	42	LT	SAWCUT	36	LF	
20	RTE D	115+67.12	115+84.04	33	LT	CURB	17	LF	
20	RTE D	115+93.72	116+06.11	-	LT	ENTRANCE	27	SY	
20	RTE D	115+93.72	116+06.11	44	LT	SAWCUT	12	LF	
20	RTE D	116+06.11	116+56.41	31	LT	PAVEMENT	60	SY	
20	RTE D	116+06.11	116+56.41	41	LT	SAWCUT	50	LF	
20	RTE D	116+17.83	116+45.21	33	LT	CURB	28	LF	
20	RTE D	116+56.41	116+97.52	-	LT	ENTRANCE	77	SY	
20	RTE D	116+56.41	116+97.52	45	LT	SAWCUT	41	LF	
20	RTE D	116+97.52	117+30.48	31	LT	PAVEMENT	17	SY	
20	RTE D	116+97.52	117+09.81	41	LT	SAWCUT	12	LF	
20	RTE D	117+09.81	117+30.48	33	LT	CURB	21	LF	
20	RTE D	117+42.17	117+85.34	-	LT	ENTRANCE	82	SY	
20	RTE D	117+42.17	117+85.34	45	LT	SAWCUT	43	LF	
20	RTE D	118+16.87	118+74.48	31	LT	FULL DEPTH PAVEMENT	129	SY	PAGEWOOD AVE.
20	RTE D	118+16.87	118+74.48	48	LT	SAWCUT	58	LF	
20 & 21	RTE D	118+94.06	119+72.10	33	LT	CURB	79	LF	
20 & 21	RTE D	118+94.06	119+72.10	31	LT	PAVEMENT	22	SY	
21	RTE D	119+81.07	120+09.07	-	LT	ENTRANCE	68	SY	
21	RTE D	119+81.07	120+09.07	45	LT	SAWCUT	28	LF	
21	RTE D	120+11.80	120+70.25	31	LT	PAVEMENT	64	SY	
22	RTE D	120+17.50	120+56.29	44	LT	GUARDRAIL	55	LF	
21	RTE D	120+29.08	120+58.69	33	LT	CURB	30	LF	
21	RTE D	120+42.67	120+62.48	40	RT	SAWCUT	21	LF	
21	RTE D	120+70.25	120+89.35	-	LT	ENTRANCE	42	SY	
21	RTE D	120+70.25	120+89.35	45	LT	SAWCUT	19	LF	
21	RTE D	120+89.35	121+22.43	30	LT	PAVEMENT	36	SY	
21	RTE D	120+89.35	121+22.43	43	LT	SAWCUT	33	LF	
21	RTE D	121+00.08	121+13.90	33	LT	CURB	14	LF	
21	RTE D	121+22.43	121+41.89	-	LT	ENTRANCE	34	SY	
21	RTE D	121+22.43	122+18.14	42	LT	SAWCUT	96	LF	
21	RTE D	121+40.89	121+77.14	30	LT	PAVEMENT	42	SY	
21	RTE D	121+49.50	121+59.34	33	LT	CURB	10	LF	
21	RTE D	121+61.85	121+75.50	33	LT	CURB	14	LF	
21	RTE D	121+77.14	122+18.14	-	LT	ENTRANCE	59	SY	
21	RTE D	122+18.14	122+40.87	30	LT	PAVEMENT	24	SY	
21	RTE D	122+18.14	122+40.87	39	LT	SAWCUT	23	LF	
21	RTE D	122+41.05	122+68.50	-	LT	ENTRANCE	48	SY	
21	RTE D	122+41.05	122+68.50	44	LT	SAWCUT	27	LF	
21	RTE D	122+70.94	122+88.89	3	LT	PAVEMENT	11	SY	
21	RTE D	122+70.94	122+88.89	24	LT	SAWCUT	18	LF	
21	RTE D	122+90.09	123+34.69	30	LT	FULL DEPTH PAVEMENT	99	SY	BURNS AVE.
21	RTE D	123+09.91	128+53.97	32	RT	SAWCUT	565	LF	
21	RTE D	123+11.87	123+39.25	34	RT	CURB	35	LF	
21	RTE D	123+20.86	123+44.89	34	RT	PAVEMENT	13	SY	
21	RTE D	123+45.56	123+74.41	-	RT	ENTRANCE	53	SY	
21	RTE D	123+45.56	123+74.41	46	RT	SAWCUT	29	LF	
21	RTE D	123+52.18	123+61.18	31	LT	PAVEMENT	3	SY	
21	RTE D	123+62.00	124+05.41	-	LT	ENTRANCE	59	SY	
21	RTE D	123+62.00	125+41.12	43	LT	SAWCUT	179	LF	
21	RTE D	123+75.02	123+94.45	32	RT	PAVEMENT	14	SY	
21	RTE D	123+81.79	123+88.32	34	RT	CURB	7	LF	
21	RTE D	123+94.74	124+31.16	-	RT	ENTRANCE	59	SY	
21	RTE D	124+05.41	124+41.19	31	LT	PAVEMENT	40	SY	
21	RTE D	124+32.07	124+91.40	34	RT	SIDEWALK	60	LF	
21	RTE D	124+40.78	125+80.56	34	RT	CURB	40	LF	
21	RTE D	124+40.78	125+80.56	32	RT	PAVEMENT	12	SY	
21	RTE D	124+41.19	124+71.48	-	LT	ENTRANCE	49	SY	
21	RTE D	124+71.48	124+86.78	31	LT	PAVEMENT	13	SY	
21	RTE D	124+86.78	125+06.16	-	LT	ENTRANCE	33	SY	
21	RTE D	124+91.44	125+15.23	-	RT	ENTRANCE	55	SY	

REMOVAL OF IMPROVEMENTS (ROADWAY) (TABLE 4 OF 5)

PLAN SHEET NO.	ROADWAY	STATION	STATION	OFFSET	LOCATION	ITEM TO BE REMOVED	AMOUNT	UNIT	REMARKS
21	RTE D	124+91.44	125+15.23	47	RT	SAWCUT	24	LF	
21 & 22	RTE D	125+06.16	125+41.13	31	LT	PAVEMENT	40	SY	
21 & 22	RTE D	125+15.83	125+44.12	34	RT	SIDEWALK	29	LF	
22	RTE D	125+27.63	125+36.14	34	RT	CURB	9	LF	
22	RTE D	125+27.63	125+36.14	32	RT	PAVEMENT	3	SY	
22	RTE D	125+41.12	125+60.19	-	LT	ENTRANCE	55	SY	
22	RTE D	125+41.12	126+01.15	53	LT	SAWCUT	60	LF	
22	RTE D	125+46.73	125+71.78	-	RT	ENTRANCE	75	SY	
22	RTE D	125+46.73	125+71.78	53	RT	SAWCUT	25	LF	
22	RTE D	125+60.19	125+85.88	31	LT	PAVEMENT	58	SY	
22	RTE D	125+71.78	125+94.84	34	RT	SIDEWALK	24	LF	
22	RTE D	125+85.88	126+01.15	-	LT	ENTRANCE	45	SY	
22	RTE D	125+96.78	126+21.79	-	RT	ENTRANCE	76	SY	
22	RTE D	125+96.78	126+21.79	53	RT	SAWCUT	25	LF	
22	RTE D	126+14.56	126+38.65	31	LT	PAVEMENT	13	SY	
22	RTE D	126+24.14	126+53.24	34	RT	SIDEWALK	30	LF	
22	RTE D	126+32.91	126+42.08	32	RT	PAVEMENT	3	SY	
22	RTE D	126+32.91	126+42.08	34	RT	CURB	10	LF	
22	RTE D	126+43.67	126+52.82	-	LT	ENTRANCE	33	SY	
22	RTE D	126+43.67	126+52.82	46	LT	SAWCUT	9	LF	
22	RTE D	126+55.55	126+75.06	-	RT	ENTRANCE	47	SY	
22	RTE D	126+55.55	126+75.06	46	RT	SAWCUT	20	LF	
22	RTE D	126+58.29	126+87.81	31	LT	PAVEMENT	14	SY	
22	RTE D	126+76.88	128+53.97	34	RT	SIDEWALK	178	LF	
22	RTE D	126+85.75	128+53.97	32	RT	PAVEMENT	49	SY	
22	RTE D	126+85.75	128+53.97	34	RT	CURB	169	LF	
22	RTE D	126+87.82	127+05.28	-	LT	ENTRANCE	39	SY	
22	RTE D	126+87.82	127+45.03	46	LT	SAWCUT	57	LF	
22	RTE D	127+05.28	127+33.71	31	LT	PAVEMENT	35	SY	
22	RTE D	127+33.71	127+45.03	-	LT	ENTRANCE	35	SY	
22	RTE D	127+46.37	127+85.37	31	LT	PAVEMENT	31	SY	
22	RTE D	127+85.67	127+97.41	-	LT	ENTRANCE	32	SY	
22	RTE D	127+85.67	127+97.41	45	LT	SAWCUT	12	LF	
22	RTE D	127+97.52	128+35.66	31	LT	PAVEMENT	32	SY	
22	RTE D	128+35.93	128+46.92	-	LT	ENTRANCE	31	SY	
22	RTE D	128+35.93	128+46.92	43	LT	SAWCUT	11	LF	
22	RTE D	128+53.20	130+71.00	31	LT	PAVEMENT	246	SY	
22	RTE D	128+57.12	128+88.50	35	LT	CURB	32	LF	
22	RTE D	129+00.79	129+12.07	-	LT	ENTRANCE	21	SY	
22	RTE D	129+00.79	129+71.30	48	LT	SAWCUT	78	LF	
22	RTE D	129+21.29	129+39.06	37	LT	CURB	18	LF	
22	RTE D	129+46.70	129+66.30	-	LT	ENTRANCE	24	SY	
22	RTE D	129+72.16	130+30.31	40	LT	SAWCUT	58	LF	
22	RTE D	129+74.59	129+90.49	38	LT	CURB	16	LF	
22	RTE D	129+91.22	130+30.31	-	LT	ENTRANCE	5	SY	
22 & 23	RTE D	130+30.31	132+86.39	48	LT	SAWCUT	256	LF	
22	RTE D	130+39.99	130+60.54	-	LT	ENTRANCE	16	SY	
22 & 23	RTE D	130+69.03	130+82.04	41	LT	CURB	14	LF	
23	RTE D	130+71.00	134+99.71	31	LT	PAVEMENT	611	SY	
23	RTE D	130+90.47	131+07.75	-	LT	ENTRANCE	17	SY	
23	RTE D	131+18.60	131+29.58	42	LT	CURB	11	LF	
23	RTE D	131+41.74	131+54.46	-	LT	ENTRANCE	14	SY	
23	RTE D	132+16.71	132+33.77	-	LT	ENTRANCE	13	SY	
23	RTE D	132+43.23	132+57.18	43	LT	CURB	14	LF	
23	RTE D	132+66.36	132+86.39	-	LT	ENTRANCE	14	SY	
23	RTE D	132+86.39	134+82.17	53	LT	SAWCUT	196	LF	
23	RTE D	133+34.85	133+58.32	43	LT	CURB	24	LF	
23	RTE D	133+66.16	133+85.85	-	LT	ENTRANCE	12	SY	
23	RTE D	134+15.69	134+35.38	-	LT	ENTRANCE	25	SY	
23	RTE D	134+43.85	134+53.61	44	LT	CURB	10	LF	
23	RTE D	134+62.38	134+82.17	-	LT	ENTRANCE	25	SY	
23	RTE D	134+82.18	134+99.71	44	LT	SIDEWALK	19	LF	
23	RTE D	134+89.71	134+99.71	43	LT	CURB	10	LF	
24	RTE D	137+83.74	138+43.43	45	RT	SIDEWALK	91	LF	
24	RTE D	137+83.74	138+43.44	45	RT	SIDEWALK	91	LF	
24	RTE D	137+85.26	138+46.89	42	RT	SAWCUT	110	LF	
24	RTE D	138+88.35	139+24.01	45	LT	SIDEWALK	58	LF	
24	RTE D	138+92.58	139+22.45	50	LT	PAVEMENT	38	SY	
24 - 27	RTE D	139+15.02	149+54.23	41	LT	SAWCUT	1043	LF	
24	RTE D	139+22.45	139+63.14	-	LT	ENTRANCE	76	SY	
24	RTE D	139+22.45	139+63.14	56	LT	SAWCUT	41	LF	
24	RTE D	139+61.67	139+67.57	160	RT	SAWCUT	6	LF	
24	RTE D	139+64.37	140+73.47	51	RT	SIDEWALK	218	LF	
24	RTE D	139+64.62	139+75.54	43	LT	SIDEWALK	12	LF	
24	RTE D	139+76.02	139+92.15	-	LT	ENTRANCE	31	SY	
24	RTE D	139+76.02	139+92.15	53	LT	SAWCUT	16	LF	
24	RTE D	139+94.05	140+21.72	43	LT	SIDEWALK	28	LF	
24	RTE D	140+01.79	140+21.72	43	LT	CURB	13	LF	
24	RTE D	140+01.79	140+21.72	41	LT	PAVEMENT	4	SY	
24	RTE D	140+23.44	140+40.62	-	LT	ENTRANCE	28	SY	
24	RTE D	140+23.44	140+40.62	54	LT	SAWCUT	17	LF	
24	RTE D	140+37.21	141+01.38	43	LT	CURB	65	LF	
24	RTE D	140+37.21	141+01.38	41	LT	PAVEMENT	16	SY	
24	RTE D	140+40.16	141+01.38	43	LT	SIDEWALK	65	LF	
24	RTE D	140+69.54	141+17.58	42	RT	SAWCUT	54	LF	
24	RTE D	140+72.04	141+10.46	-	RT	ENTRANCE	60	SY	
24	RTE D	140+72.04	141+10.46	54	RT	SAWCUT	38	LF	
24	RTE D	141+04.80	141+31.19	-	LT	ENTRANCE	38	SY	
24	RTE D	141+04.80	141+31.19	50	LT	SAWCUT	26	LF	
24	RTE D	141+11.80	141+49.96	51	RT	SIDEWALK	39	LF	
24	RTE D	141+29.45	141+66.69	43	LT	SIDEWALK	38	LF	
24	RTE D	141+43.54	141+61.28	43	LT	CURB	18	LF	

ROUTE D QUANTITIES
SHEET 02 OF 09

STATE OF MISSOURI
ALLISON M. BRUNER
NUMBER PE-2010005896
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED, AND DATED ELECTRONICALLY

Digitally signed by Allison Bruner
Date: 2025.12.19 09:38:34-06'00'

DATE PREPARED
12/17/2025

ROUTE	STATE
D	MO
DISTRICT	SHEET NO.
SL	3

COUNTY
ST. LOUIS

JOB NO.
JSL0186

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)

Burns & McDonnell Engineering Co., Inc.
425 South Woods Mill Road
Chesterfield, Missouri 63017
314-682-1500
Certificate of Authority
No. : 000165
BMcD Project No. 170361

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REMOVAL OF IMPROVEMENTS (ROADWAY) (TABLE 5 OF 5)

PLAN SHEET NO.	ROADWAY	STATION	STATION	OFFSET	LOCATION	ITEM TO BE REMOVED	AMOUNT	UNIT	REMARKS
24	RTE D	141+43.54	141+61.28	41	LT	PAVEMENT	5	SY	
24 & 26	RTE D	141+67.14	141+82.85	-	LT	ENTRANCE	31	SY	
24 & 26	RTE D	141+67.14	141+82.85	53	LT	SAWCUT	16	LF	
24	WOODSON RD	0+23.56	2+01.04	32	RT	SAWCUT	210	LF	
24	WOODSON RD	0+68.31	1+08.21	-	RT	ENTRANCE	110	SY	
24	WOODSON RD	0+68.31	1+08.21	57	RT	SAWCUT	40	LF	
24	WOODSON RD	1+08.55	1+37.09	38	RT	PAVEMENT	22	SY	
24 & 25	WOODSON RD	1+08.96	1+63.50	50	LT	SIDEWALK	55	LF	
24 & 25	WOODSON RD	1+08.96	1+56.09	49	LT	CURB	48	LF	
24	WOODSON RD	1+13.11	1+24.90	40	RT	CURB	12	LF	
24 & 25	WOODSON RD	1+39.32	1+87.21	-	RT	ENTRANCE	90	SY	
24 & 25	WOODSON RD	1+39.32	1+87.21	52	RT	SAWCUT	48	LF	
25	WOODSON RD	1+64.26	2+05.50	-	LT	ENTRANCE	68	SY	
25	WOODSON RD	1+64.26	2+05.50	58	LT	SAWCUT	41	LF	
25	WOODSON RD	2+06.07	2+27.75	50	LT	SIDEWALK	22	LF	
25	WOODSON RD	2+27.75	2+28.35	50	LT	SAWCUT	5	LF	
26	RTE D	141+84.09	142+42.95	41	LT	PAVEMENT	56	SY	
26	RTE D	141+92.55	142+32.45	43	LT	CURB	40	LF	
26	RTE D	142+43.05	142+59.98	-	LT	ENTRANCE	42	SY	
26	RTE D	142+43.05	142+59.98	55	LT	SAWCUT	17	LF	
26	RTE D	142+64.27	143+30.97	39	LT	PAVEMENT	61	SY	
26	RTE D	142+72.11	143+19.62	42	LT	CURB	48	LF	
26	RTE D	143+30.13	143+63.51	-	LT	ENTRANCE	56	SY	
26	RTE D	143+30.13	143+63.51	48	LT	SAWCUT	33	LF	
26	RTE D	143+65.00	144+45.40	35	LT	PAVEMENT	73	SY	
26	RTE D	143+73.81	144+41.07	39	LT	CURB	68	LF	
26	RTE D	144+46.69	144+78.00	-	LT	ENTRANCE	80	SY	
26	RTE D	144+46.69	144+78.00	53	LT	SAWCUT	31	LF	
26	RTE D	144+78.53	144+99.09	43	LT	CURB	21	LF	
26	RTE D	144+78.53	144+99.09	33	LT	PAVEMENT	16	SY	
26	RTE D	144+83.13	144+93.79	37	LT	CURB	11	LF	
26	RTE D	145+02.54	145+34.34	-	LT	ENTRANCE	60	SY	
26	RTE D	145+02.54	145+34.34	46	LT	SAWCUT	32	LF	
26	RTE D	145+38.19	145+74.38	43	LT	CURB	37	LF	
26	RTE D	145+38.19	145+74.38	33	LT	PAVEMENT	40	SY	
26	RTE D	145+79.93	146+10.69	-	LT	ENTRANCE	64	SY	
26	RTE D	145+79.93	146+10.69	47	LT	SAWCUT	31	LF	
26	RTE D	146+15.97	146+29.19	43	LT	CURB	14	LF	
26	RTE D	146+15.97	146+29.19	33	LT	PAVEMENT	15	SY	
26	RTE D	146+37.05	146+88.16	33	LT	FULL-DEPTH PAVEMENT	147	SY	HURSTGREEN DR.
26	RTE D	146+37.05	146+78.97	50	LT	SAWCUT	56	LF	
26	RTE D	146+87.63	146+88.16	51	LT	SIDEWALK	8	LF	
26 & 27	RTE D	147+16.51	147+36.01	38	LT	CURB	20	LF	
26 & 27	RTE D	147+16.51	147+36.01	33	LT	PAVEMENT	11	SY	
27	RTE D	147+51.67	147+84.60	-	LT	ENTRANCE	74	SY	
27	RTE D	147+51.67	147+84.60	48	LT	SAWCUT	33	LF	
27	RTE D	147+92.87	148+94.59	34	LT	CURB	102	LF	
27	RTE D	147+92.87	148+94.59	33	LT	PAVEMENT	23	SY	
27	RTE D	149+02.07	149+33.94	-	LT	ENTRANCE	64	SY	
27	RTE D	149+02.07	149+33.94	48	LT	SAWCUT	32	LF	
						PAY TOTAL	1	LS	

REMOVAL (SIGNS)*

PAVEMENT MARKING & SIGNING SHEET NO.	ROADWAY	STATION	LOCATION	ITEM TO BE REMOVED	REMARKS
4	RTE D	72+20.00	LT	POST & FOUNDATION	RELOCATE SIGN
5	RTE D	73+48.00	LT	POST & FOUNDATION	RELOCATE SIGN
5	RTE D	75+48.00	LT	POST & FOUNDATION	RELOCATE SIGN
7	RTE D	120+41.00	RT	POST & FOUNDATION	RELOCATE SIGN
9	RTE D	146+35.00	LT	POST & FOUNDATION	RELOCATE SIGN
9	RTE D	149+55.00	LT	POST & FOUNDATION	RELOCATE SIGN
				PAY TOTAL	1

*NEW SIGNAGE POST PAID FOR WITH SIGNAGE QUANTITIES. KEEP SIGN FACE TO BE RELOCATED PER PLAN AND DIRECTION OF ENGINEER.

CAST-IN-PLACE RETAINING WALL

PLAN SHEET NO.	ROADWAY	STATION	STATION	LOCATION	CONCRETE TRAFFIC BARRIER, TYPE D (RETAINING WALL) (LF)	CHAIN-LINK FENCE (RETAINING WALLS) (LF)	REMARKS
24	RTE D	138+94.25	139+22.63	LT	34.0	34.0	CAST-IN-PLACE RETAINING WALL AT NE CORNER OF WOODSON
				TOTAL	34.0	34.0	
				PAY TOTAL	34.0	34.0	

CONCRETE CURB AND GUTTER

PLAN SHEET NO.	ROADWAY	STATION	TO	STATION	LOCATION	CONCRETE CURB (6-IN HEIGHT AND UNDER) TYPE S (LF)	CURB, 12-IN. REINFORCED (LF)	CURB, 18-IN. REINFORCED (LF)	CURB AND GUTTER, TYPE B (LF)	CURB AND GUTTER, TYPE A (LF)	TYPE 5 AGGREGATE FOR BASE (4-IN THICK) (SY)
3	RTE D	24+60.70	TO	25+87.70	RT	137.7			130.6		51.2
5	RTE D	34+89.78	TO	35+45.06	LT				61.0		20.3
5	RTE D	36+67.66	TO	36+77.12	LT				9.5		3.2
5	RTE D	37+01.77	TO	37+21.00	RT	19.4					1.1
6	RTE D	37+21.00	TO	37+59.60	RT	38.7					2.2
6	RTE D	37+32.75	TO	37+58.87	RT	26.2					1.5
6	RTE D	37+62.12	TO	37+82.84	RT				20.8		6.9
6	RTE D	39+03.36	TO	40+42.06	RT				142.8		47.6
6	RTE D	39+28.56	TO	39+43.27	LT	14.8					0.8
6	RTE D	41+38.83	TO	41+83.98	RT				45.2		15.1
6	RTE D	41+78.98	TO	41+83.98	RT	5.0					0.3
6	RTE D	41+88.98	TO	41+93.98	RT	5.0					0.3
6	RTE D	41+88.98	TO	42+44.66	RT				55.7		18.6
7	RTE D	43+21.89	TO	45+72.31	RT	254.0			250.5		97.6
7	RTE D	46+47.73	TO	47+44.20	RT	96.5			96.5		37.5
7	RTE D	47+04.70	TO	47+75.72	LT				76.7		25.6
7	RTE D	48+08.26	TO	48+21.00	RT	12.9			12.9		5.0
8	RTE D	48+21.00	TO	48+35.54	RT	14.5			14.5		5.6
8	RTE D	49+15.48	TO	49+82.20	LT				66.7		22.2
8	RTE D	49+24.46	TO	50+12.93	RT				94.5		31.5
8	RTE D	50+21.21	TO	50+30.85	RT				42.8		14.3
8	RTE D	50+91.60	TO	51+00.58	RT	27.4					1.5
8	RTE D	51+26.33	TO	51+91.88	LT				66.2		22.1
8	RTE D	51+30.05	TO	51+91.88	LT	63.5					3.5
8	RTE D	52+65.44	TO	52+71.52	LT				6.1		2.0
8	RTE D	53+44.95	TO	53+51.04	LT				6.1		2.0
9	RTE D	53+75.97	TO	53+80.72	LT				8.0		2.7
11	RTE D	68+94.68	TO	69+31.60	RT				37.0		12.3
11	RTE D	69+22.74	TO	69+29.47	RT	10.5					0.6
11	RTE D	69+44.34	TO	69+51.27	RT	8.2					0.5
12	RTE D	70+44.92	TO	70+64.37	LT				19.5		6.5
12	RTE D	70+43.68	TO	70+45.59	RT				7.4		2.5
12	RTE D	70+78.14	TO	70+86.47	RT				28.3		9.4
12	RTE D	70+87.48	TO	70+89.01	RT	3.5					0.2
12	RTE D	71+52.76	TO	71+90.12	LT				37.4		12.5
12	RTE D	73+03.26	TO	73+83.14	LT				79.9		26.6
12	RTE D	74+96.68	TO	75+55.03	LT				70.4		23.5
17	RTE D	100+60.29	TO	100+74.22	RT				16.5		5.5
17	RTE D	100+66.81	TO	100+67.94	RT	4.0					0.2
18	RTE D	106+23.78	TO	106+27.93	LT				4.2		1.4
18	RTE D	108+22.18	TO	108+24.75	LT				2.6		0.9
19	RTE D	110+11.37	TO	110+15.70	LT				6.7		2.2
19	RTE D	113+22.26	TO	113+30.39	LT				14.2		4.7
19	RTE D	114+18.67	TO	114+21.00	LT				2.3		0.8
20	RTE D	114+21.00	TO	115+20.42	LT				99.6		33.2
20	RTE D	114+42.87	TO	115+20.42	LT	78.3					4.4
20	RTE D	119+12.65	TO	119+53.68	LT				40.9		13.6
21	RTE D	120+31.65	TO	120+68.54	LT		36.7				4.1
21	RTE D	120+42.22	TO	120+62.49	RT			23.6			2.6
21	RTE D	123+09.92	TO	123+21.48	RT				12.7		4.2
21	RTE D	123+56.49	TO	123+68.07	RT	10.4					0.6
21	RTE D	124+56.47	TO	124+65.75	RT				10.3		3.4
22	RTE D	127+00.28	TO	128+53.98	RT				153.7		51.2
22	RTE D	128+71.91	TO	128+76.51	LT					3.5	1.2
23	RTE D	131+78.43	TO	131+94.86	LT					22.5	7.5
23	RTE D	133+79.68	TO	133+93.74	LT	27.2					1.5
24	RTE D	137+77.71	TO	137+86.65	LT				33.8		11.3
24	RTE D	140+65.11	TO	140+79.06	LT	14.0			20.0		7.4
25	RTE D	142+08.07	TO	142+21.31	LT				13.3		4.4
25	RTE D	142+82.25	TO	143+04.99	LT				22.8		7.6
25	RTE D	143+87.59	TO	144+21.60	LT				34.0		11.3
25	RTE D	145+56.09	TO	145+58.50	LT				2.5		0.8
25-26	RTE D	147+04.01	TO	147+25.03	LT				21.0		7.0
26	RTE D	148+07.89	TO	148+78.45	LT				70.6		23.5
					TOTAL	871.7	36.7	23.6	2068.7	26.0	753.4
					PAY TOTAL	872	37	24	2,069	26	-

CONCRETE MEDIAN AND MEDIAN CUT-THROUGH

PLAN SHEET NO.	ROADWAY	STATION	STATION	LOCATION	AREA (SY)	CONCRETE MEDIAN (SY)	*MEDIAN CUT-THROUGH 6-FT CUT THROUGH AREA (SY)	*MEDIAN CUT-THROUGH CURB RAMP (EA)	*MEDIAN CUT-THROUGH TRUNCATED DOMES (SF)	TYPE 5 AGGREGATE FOR BASE (4-IN THICK) (SY)	REMARKS
6	RTE D	37+93.51	38+13.06	LT	18.1		18.1	3.0	36.03		WARSON RD CONCRETE MEDIAN CUT THROUGH
6	RTE D	38+64.63	38+91.06	RT	32.5	21.6	10.9	2.0	24.1	21.6	WARSON RD. RECONSTRUCT 6-IN RAISED MEDIAN.
8	RTE D	50+18.13	50+24.34	LT	3.8		3.8	1.0	11.6		ASHBY RD CONCRETE MEDIAN CUT THROUGH.
11-12	RTE D	69+35.69	70+11.76	LT	16.8	16.8				16.8	WEST OF PAGE INDUSTRIAL BLVD. 2-FT WIDE RAISED MEDIAN (6-IN).
12	RTE D	71+36.65	72+17.72	RT	17.9	17.9					EAST OF PAGE INDUSTRIAL BLVD. 2-FT WIDE RAISED MEDIAN (6-IN).
					TOTAL	56.3	32.8	6.0	71.8	56.3	
					PAY TOTAL	56.3	-	-	-	-	

*VALUES SHOWN FOR INFO ONLY. SEE 'CONCRETE SIDEWALK AND CURB RAMPS' QUANTITY TABLE FOR PAY TOTALS AND FOR AGGREGATE BASE QUANTITY.

CONCRETE PAVEMENT

PLAN SHEET NO.	ROADWAY	STATION	STATION	LOCATION	CONCRETE BASE (9 IN. NON-REINF) (SY)	TYPE 5 AGGREGATE FOR BASE (6-IN THICK) (SY)	REMARKS
8	RTE D	50+14.91	50+31.28	RT	29.6	29.6	ASHBY ISLAND REMOVAL
12	RTE D	70+15.39	70+46.12	RT	21.0	21.0	PAGE INDUSTRIAL RADIUS
				TOTAL	50.6	50.6	
				PAY TOTAL	50.6	-	

ROUTE D QUANTITIES
SHEET 03 OF 09

STATE OF MISSOURI
ALLISON M. BRUNER
NUMBER PE-2019005896
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED, AND DATED ELECTRONICALLY

Digitally signed by Allison Bruner
Date: 2025.12.19 09:38:34-06'00'

DATE PREPARED
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ROUTE	STATE
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MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
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JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

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BMcD Project No. 170361

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CONCRETE SIDEWALK AND CURB RAMPS (TABLE 1 OF 3)

PLAN SHEET NO.	ROADWAY	STATION	STATION	LOCATION	CONCRETE SIDEWALK, 4-IN (SY)	CONCRETE SIDEWALK, 7-IN (SY)	CURB RAMP AND TRUNCATED DOMES								TYPE 5 AGGREGATE FOR BASE (4-IN THICK) (SY)	REMARKS
								RAMP TYPE								
							AREA FOR INFO ONLY (SY)	BLENDED TRANSITION (EA)	TYPE 1 PARALLEL (EA)	TYPE 2 PARALLEL (EA)	TYPE 3 PARALLEL (EA)	(A) SMALL RADIUS PERPENDICULAR (EA)	(B) LARGE RADIUS PERPENDICULAR (EA)	TRUNCATED DOMES (SF)		
3	RTE D	24+91.60	24+96.79	LT	7.87										7.9	
3-4	RTE D	26+02.77	26+26.67	LT			14.5						1	10.49	14.5	
3-4	RTE D	26+04.82	26+25.50	LT			13.6		1					13.49	13.6	
3	RTE D	20+71.00	25+87.54	RT	89.23										89.2	
3	RTE D	25+87.54	26+08.04	RT			14.0				1			12.00	14.0	
5	RTE D	35+12.67	35+45.06	LT	21.00										21.0	
5	RTE D	35+45.06	35+68.90	LT			14.3						1		14.3	
5	RTE D	35+95.63	36+06.87	LT			4.5					2			4.5	
5	RTE D	36+43.78	36+67.66	LT			14.3						1		14.3	
5	RTE D	36+67.66	36+77.12	LT	6.31										6.3	
5	RTE D	36+77.12	37+02.54	LT			16.1						1		16.1	
5-6	RTE D	31+71.00	38+43.50	RT	119.86										119.9	
6	RTE D	37+35.70	37+54.24	LT			17.6						1		17.6	
6	RTE D	37+54.24	37+84.92	LT	40.76										40.8	
6	RTE D	37+63.93	37+75.79	LT			9.3					1		12.71	9.3	
6	RTE D	37+93.51	38+13.06	LT			18.1						3	36.03	18.1	7-IN CONCRETE
6	RTE D	38+58.84	38+81.68	LT			11.3						1	14.50	11.3	
6	RTE D	38+81.68	39+43.27	LT	46.45										46.4	
6	RTE D	39+43.27	39+64.11	LT			12.3						1		12.3	
6	RTE D	40+01.44	40+22.27	LT			12.3						1		12.3	
6	RTE D	40+22.27	40+44.89	LT	13.67										13.7	
6	RTE D	37+74.33	38+12.53	RT			45.4		2					50.24	45.4	
6	RTE D	38+64.63	38+91.06	RT			10.9					2		24.13	10.9	7-IN CONCRETE
6	RTE D	39+01.22	39+15.87	RT			9.2						1	12.13	9.2	
6	RTE D	39+15.87	40+39.06	RT	101.84										101.8	
6	RTE D	40+39.06	40+63.55	RT			22.1						1		22.1	
6	RTE D	41+17.15	41+41.83	RT			21.0						1		21.0	
6	RTE D	41+41.83	42+41.64	RT	79.36										79.4	
6	RTE D	42+41.64	42+66.17	RT			21.0						1		21.0	
7	RTE D	47+09.93	47+72.73	LT	43.14										43.1	
7	RTE D	47+72.73	47+96.53	LT			14.3						1		14.3	
7	RTE D	43+00.37	43+24.89	RT			21.0						1		21.0	
7	RTE D	43+24.89	45+69.28	RT	229.67										229.7	
7	RTE D	45+69.28	45+93.72	RT			21.0						1		21.0	
7	RTE D	46+26.31	46+50.79	RT			21.0						1		21.0	
7	RTE D	46+50.79	47+41.20	RT	85.39										85.4	
7	RTE D	47+41.20	47+65.67	RT			21.0						1		21.0	
7	RTE D	47+86.78	48+11.20	RT			21.0						1		21.0	
7-8	RTE D	48+11.20	48+32.53	RT	20.15										20.2	
8	RTE D	48+28.96	48+54.15	LT			13.7						2		13.7	
8	RTE D	48+91.61	49+15.48	LT			14.3						1		14.3	
8	RTE D	49+15.48	49+82.20	LT	44.67										44.7	
8	RTE D	50+18.13	50+24.34	LT			3.8					1		11.60	3.8	7-IN CONCRETE
8	RTE D	51+26.33	51+88.90	LT	41.68										41.7	
8	RTE D	51+88.90	52+12.73	LT			14.3						1		14.3	
8	RTE D	52+44.63	52+92.37	LT			28.5						2		28.5	
8-9	RTE D	53+24.14	53+71.89	LT			28.5						2		28.5	
8	RTE D	48+32.53	48+56.93	RT			21.0						1		21.0	
8	RTE D	49+00.13	49+24.48	RT			22.4						1		22.4	
8	RTE D	49+24.48	50+27.81	RT	113.60										113.6	
8	RTE D	50+13.14	50+18.70	RT			9.6						1	18.70	9.6	
8	RTE D	50+95.91	51+01.04	RT	16.07										16.1	
8	RTE D	51+57.09	51+73.14	RT			8.4						1		8.4	
8	RTE D	52+23.41	52+47.00	RT			15.6						1		15.6	
8	RTE D	52+47.00	53+03.30	RT	35.64										35.6	
11	RTE D	68+94.68	69+24.87	RT	23.44										23.4	
11	RTE D	69+24.87	69+50.96	RT			15.3						1		15.3	
11	RTE D	69+80.81	70+06.00	RT			45.7						1		45.7	
12	RTE D	70+21.28	70+44.92	LT			18.4				1			12.00	18.4	
12	RTE D	70+44.92	70+64.37	LT	15.13										15.1	
12	RTE D	70+64.37	70+88.90	LT			21.0						1		21.0	
12	RTE D	71+28.92	71+52.76	LT			14.3						1		14.3	
12	RTE D	71+52.76	71+90.12	LT	24.90										24.9	
12	RTE D	71+90.12	72+21.13	LT			17.4						1	31.20	17.4	
12	RTE D	72+72.20	73+03.26	LT			17.3						1	31.20	17.3	
12	RTE D	73+03.26	73+83.14	LT	53.25										53.3	
12	RTE D	73+83.14	74+14.21	LT			17.3						1		17.3	
12	RTE D	74+65.52	74+96.68	LT			17.3						1		17.3	
12	RTE D	74+96.68	75+55.03	LT	41.11										41.1	
12	RTE D	75+55.03	75+55.03	LT			18.3			1				10.00	18.3	
12	RTE D	70+06.00	70+40.18	RT			29.9	2						42.42	29.9	
12	RTE D	70+79.14	70+98.52	RT			10.6					1		9.92	10.6	
17	RTE D	99+23.38	99+33.82	LT	6.7										6.7	
17	RTE D	102+79.93	103+11.25	LT			17.3						1		17.3	
17	RTE D	100+72.50	100+82.28	RT			16.4		1					17.98	16.4	
17	RTE D	100+82.28	100+83.94	RT	21.31											
17	RTE D	100+87.10	100+87.64	RT	11.17											
17	RTE D	101+43.62	101+51.06	RT	76.26											
18	RTE D	103+54.29	103+78.44	LT			13.2						1		13.2	
18	RTE D	104+54.30	104+64.32	LT			5.40						1		5.4	
18	RTE D	104+99.34	105+23.81	LT			16.15						2		16.1	

ROUTE D QUANTITIES
SHEET 04 OF 09

STATE OF MISSOURI
ALLISON M. BRUNER
NUMBER PE-2019005896
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED, AND DATED ELECTRONICALLY

Digitally signed by Allison Bruner
Date: 2025.12.19 09:38:34-06'00'

DATE PREPARED
12/17/2025

ROUTE	STATE
D	MO
DISTRICT	SHEET NO.
SL	3

COUNTY
ST. LOUIS

JOB NO.
JSL0186

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)

Burns & McDonnell Engineering Co., Inc.
425 South Woods Mill Road
Chesterfield, Missouri 63017
314-682-1500
Certificate of Authority
No. : 000165

BMcD Project No. 170361

CONCRETE SIDEWALK AND CURB RAMPS (TABLE 2 OF 3)

PLAN SHEET NO.	ROADWAY	STATION	STATION	LOCATION	CONCRETE SIDEWALK, 4-IN (SY)	CONCRETE SIDEWALK, 7-IN (SY)	CURB RAMP AND TRUNCATED DOMES								TYPE 5 AGGREGATE FOR BASE (4-IN THICK) (SY)	REMARKS
							AREA FOR INFO ONLY (SY)	RAMP TYPE						TRUNCATED DOMES (SF)		
								BLENDED TRANSITION (EA)	TYPE 1 PARALLEL (EA)	TYPE 2 PARALLEL (EA)	TYPE 3 PARALLEL (EA)	(A) SMALL RADIUS PERPENDICULAR (EA)	(B) LARGE RADIUS PERPENDICULAR (EA)			
18	RTE D	106+02.95	106+48.77	LT			27.30						2		27.3	
18	RTE D	106+71.10	107+10.95	LT			23.32						2		23.3	
18	RTE D	107+33.28	107+62.75	LT			16.46						2		16.5	
18	RTE D	108+01.36	108+45.59	LT			26.24						2		26.2	
18-19	RTE D	108+63.74	109+06.37	LT			25.2						2		25.2	
19	RTE D	110+15.70	110+49.78	LT			24.8		1					14.55	24.8	
19	RTE D	110+95.12	111+19.66	LT			14.5						1		14.5	7 IN CONCRETE
19	RTE D	111+43.49	111+82.05	LT			22.5						2		22.5	7-IN CONCRETE
19	RTE D	111+95.74	112+29.97	LT			19.6						2		19.6	7-IN CONCRETE
19	RTE D	112+46.25	112+79.29	LT			17.33						2		17.3	7-IN CONCRETE
19	RTE D	112+95.51	113+22.26	LT			15.48						1		15.5	7-IN CONCRETE
19	RTE D	113+22.26	113+30.39	LT		3.14									3.1	
19	RTE D	113+30.39	113+54.22	LT			14.27						1		14.3	7-IN CONCRETE
19	RTE D	113+73.02	113+85.24	LT			6.17					2			6.2	7-IN CONCRETE
19-20	RTE D	113+97.85	114+21.68	LT			14.27						1		14.3	7-IN CONCRETE
19	RTE D	109+26.24	109+66.62	RT			24.4	2						37.03	24.4	
19	RTE D	109+29.40	109+35.40	RT	6.38										6.4	
20	RTE D	114+21.68	115+17.42	LT	23.16										23.2	
20	RTE D	115+17.42	115+41.44	LT			14.27						1		14.3	
20	RTE D	115+62.04	115+92.56	LT			17.10						2		17.1	
20	RTE D	116+14.90	116+55.86	LT			24.07						2		24.1	
20	RTE D	116+98.19	117+40.91	LT			25.0						2		25.0	
20	RTE D	117+86.30	118+13.61	LT			13.1						2	17.70	13.1	
20	RTE D	118+81.17	119+12.65	LT			17.3						1	31.20	17.3	
20	RTE D	119+12.65	119+53.68	LT	27.76										27.8	
20-21	RTE D	119+53.68	119+80.10	LT			15.2						1		15.2	
21	RTE D	120+12.08	120+68.02	LT			47.1						2		47.1	
21	RTE D	120+92.50	121+21.09	LT			15.8						2		15.8	
21	RTE D	121+42.06	121+76.47	LT			19.66						2		19.7	
21	RTE D	122+18.80	122+40.27	LT			11.14						2		11.1	
21	RTE D	122+71.39	122+92.95	LT			22.09			1			1	26.34	22.1	
21	RTE D	123+34.31	123+66.18	LT			15.81					1	1	13.88	15.8	
21	RTE D	124+06.57	124+40.04	LT			19.07						2		19.1	
21	RTE D	124+72.00	124+86.37	LT			8.6					2			8.6	
21-22	RTE D	125+07.32	125+39.99	LT			18.5						2		18.5	
21	RTE D	123+21.48	123+44.82	RT			10.93					1	1		10.9	
21	RTE D	123+75.10	123+94.37	RT			11.23					2			11.2	
21	RTE D	124+32.63	124+56.47	RT			14.27						1		14.3	
21	RTE D	124+56.47	124+66.75	RT	6.86										6.9	
21	RTE D	124+66.75	124+90.59	RT			14.3						1		14.3	
21-22	RTE D	125+16.44	125+45.14	RT			15.9						2		15.9	
22	RTE D	126+02.33	126+41.90	LT			23.1						2		23.1	7-IN CONCRETE
22	RTE D	126+54.23	126+84.34	LT			16.83						2		16.8	7-IN CONCRETE
22	RTE D	127+24.06	127+33.06	LT			5.03					2			5.0	7-IN CONCRETE
22	RTE D	127+46.28	127+84.52	LT			22.25						2		22.3	7-IN CONCRETE
22	RTE D	127+98.79	128+34.79	LT			20.87						2		20.9	7-IN CONCRETE
22	RTE D	128+48.08	128+71.91	LT			14.27						1		14.3	7-IN CONCRETE
22	RTE D	128+71.91	128+76.51	LT		3.07									3.1	
22	RTE D	128+76.51	129+00.34	LT			14.27						1		14.3	7-IN CONCRETE
22	RTE D	129+13.25	129+45.55	LT			18.29						2		18.3	7-IN CONCRETE
22	RTE D	129+72.88	129+90.40	LT			8.4						2		8.4	7-IN CONCRETE
22	RTE D	130+30.50	130+39.50	LT			5.0					2			5.0	7-IN CONCRETE
22	RTE D	125+72.04	125+95.10	RT			12.1						2		12.1	
22	RTE D	126+22.76	126+54.26	RT			17.8						2		17.8	
22	RTE D	126+76.44	127+00.28	RT			14.27						1		14.3	
22	RTE D	127+00.28	128+53.98	RT	102.47										102.5	
23	RTE D	130+83.74	130+92.74	LT			5.0					2			5.0	7-IN CONCRETE
23	RTE D	131+09.07	131+42.27	LT			18.9						2		18.9	7-IN CONCRETE
23	RTE D	131+54.60	131+78.43	LT			14.3						1		14.3	7-IN CONCRETE
23	RTE D	131+78.43	131+94.86	LT		10.95									11.0	
23	RTE D	131+94.86	132+18.70	LT			14.3						1		14.3	7-IN CONCRETE
23	RTE D	132+30.37	132+34.47	LT			2.48					2			2.5	
23	RTE D	133+34.26	133+69.87	LT			20.54					2			20.5	
23	RTE D	134+82.79	134+98.18	LT			8.64						1		8.6	
24	RTE D	138+87.49	139+24.62	LT			64.4						4	28.23	64.4	
24	RTE D	139+64.37	139+75.51	LT			8.7					2			8.7	
24	RTE D	139+93.82	140+22.70	LT			17.3						2		17.3	
24	RTE D	140+41.28	140+65.11	LT			14.3						1		14.3	
24	RTE D	140+65.11	140+79.06	LT			9.3								9.3	
24	RTE D	140+79.06	141+02.89	LT			14.3						1		14.3	
24	RTE D	141+28.42	141+65.97	LT			21.80						2		21.8	
24	WOODSON	1+08.93	1+39.73	LT	20.5											
24	WOODSON	1+39.73	1+63.59	LT			14.27						1			
24	WOODSON	2+05.95	2+28.35	LT			12.32						1			
24	WOODSON	1+08.77	1+37.55	RT			15.99						2			
24	WOODSON	1+87.77	2+01.24	RT			7.63						1			
24	RTE D	137+83.91	137+96.88	RT	8.83											
24	RTE D	137+96.88	138+42.89	RT			45.36			2				26.34	45.4	
24	RTE D	138+42.89	138+43.83	RT	8.77											
24	RTE D	139+61.38	140+54.98	RT	122.05											
24	RTE D	140+54.98	140+73.80	RT			10.4					1				
24	RTE D	141+13.34	141+25.27	RT			7.1					1			7.1	
24	RTE D	141+25.27	141+49.89	RT	13.78											

ROUTE D QUANTITIES
SHEET 05 OF 09

ALLISON M. BRUNER NUMBER PE-2019005896 PROFESSIONAL ENGINEER
STATE OF MISSOURI
THIS SHEET HAS BEEN SIGNED, SEALED, AND DATED ELECTRONICALLY
Digitally signed by Allison Bruner
Date: 2025.12.19 09:38:34-06'00'

DATE PREPARED
12/17/2025

ROUTE	STATE
D	MO
DISTRICT	SHEET NO.
SL	3

COUNTY
ST. LOUIS

JOB NO.
JSL0186

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)

Burns & McDonnell Engineering Co., Inc.
425 South Woods Mill Road
Chesterfield, Missouri 63017
314-682-1500
Certificate of Authority No. : 000165
BMcD Project No. 170361

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CONCRETE SIDEWALK AND CURB RAMPS (TABLE 3 OF 3)

PLAN SHEET NO.	ROADWAY	STATION	STATION	LOCATION	CONCRETE SIDEWALK, 4-IN (SY)	CONCRETE SIDEWALK, 7-IN (SY)	CURB RAMP AND TRUNCATED DOMES								TYPE 5 AGGREGATE FOR BASE (4-IN THICK) (SY)	REMARKS
							AREA FOR INFO ONLY (SY)	RAMP TYPE						TRUNCATED DOMES (SF)		
								BLENDED TRANSITION (EA)	TYPE 1 PARALLEL (EA)	TYPE 2 PARALLEL (EA)	TYPE 3 PARALLEL (EA)	(A) SMALL RADIUS PERPENDICULAR (EA)	(B) LARGE RADIUS PERPENDICULAR (EA)			
25	RTE D	141+84.24	142+08.07	LT			14.27						1		14.3	
25	RTE D	142+08.07	142+21.31	LT	8.83										8.8	
25	RTE D	142+21.31	142+45.89	LT			18.70						1		18.7	
25	RTE D	142+61.14	142+82.25	LT			18.40						1		18.4	
25	RTE D	142+82.25	143+04.99	LT	15.18										15.2	
25	RTE D	143+04.99	143+29.08	LT			14.27						1		14.3	
25	RTE D	143+64.05	143+87.59	LT			14.27						1		14.3	
25	RTE D	143+87.59	144+21.60	LT	22.72										22.7	
25	RTE D	144+21.60	144+45.99	LT			14.47						1		14.5	
25	RTE D	144+77.90	145+20.38	LT			13.07						2		13.1	
25	RTE D	145+35.27	145+79.35	LT			26.1						2		26.1	
25	RTE D	146+11.08	146+35.98	LT			13.4						2	19.49	13.4	
25	RTE D	146+81.89	147+04.01	LT			20.9			1				33.60	20.9	
25-26	RTE D	147+04.01	147+25.03	LT	14.01										14.0	
26	RTE D	147+25.03	147+50.13	LT			14.8						1		14.8	
26	RTE D	147+84.06	148+07.89	LT			14.3						1		14.3	
26	RTE D	148+07.89	148+78.45	LT			47.0								47.0	
26	RTE D	148+78.45	149+02.28	LT			14.27						1		14.3	
26	RTE D	149+34.79	149+57.24	LT			13.51						1		13.5	
				TOTAL	1,733.85	17.17	2,357.95	4.00	4.00	5.00	2.00	29.00	151.00	595.12	3,765.64	
				PAY TOTAL	1,734	17	-	195						595	-	

EARTHWORK QUANTITY SUMMARY

ROADWAY	STATION	STATION	LOCATION	CLASS A EXCAVATION (CY)	COMPACTING EMBANKMENT (CY)	REMARKS
RTE D	24+60	26+08	RT	0.0	11.0	
RTE D	35+00	37+50	LT	0.0	1.9	
RTE D	47+10	49+85	LT	0.0	56.0	FILL EXIST. SIDEWALK AND GRADING BEHIND NEW SIDEWALK
RTE D	47+10	49+85	RT	0.0	53.5	FILL EXIST. RT. TURN LANE AND GRADING BEHIND NEW SIDEWALK
RTE D	51+30	53+75	LT	0.0	6.8	
RTE D	51+30	53+03	RT	8.3	0.0	
RTE D	123+20	128+54	RT	0.0	39.6	
RTE D	147+04	149+55	LT	5.6	0.0	
			TOTAL	13.9	168.8	
			PAY TOTAL	14.0	169.0	

AGGREGATE SUMMARY TABLE

	TYPE 5 AGGREGATE FOR BASE (4-IN THICK) (SY)	TYPE 5 AGGREGATE FOR BASE (6-IN THICK) (SY)	REMARKS
	753.4		FROM CONCRETE CURB & GUTTER
	5,513.5		FROM PAVED APPROACHES
	3,765.6		FROMCONCRETE SIDEWALK AND CURB RAMPS
		50.6	FROM CONCRETE BASE
	56.3		FROM CONCRETE MEDIAN
TOTAL	10,088.8	50.6	
PAY TOTAL	10,089	51	

TEMPORARY EROSION CONTROL

EC SHEET NO.	ROADWAY	LOCATION	SILT FENCE (LF)	CURB INLET CHECK (EA)	ALTERNATE DITCH CHECK (LF)	SEDIMENT REMOVAL (CUYD)	REMARKS
1	RTE D	RT	-	1	65	6	10 FT SPACING FOR DITCH CHECKS
2	RTE D	LT	146	2	-	4	
2	RTE D	RT	124	4	-	6	
3	RTE D	RT	-	1	-	1	
5	RTE D	LT	-	4	-	4	
5	RTE D	RT	-	2	-	2	
8	RTE D	LT	32	-	-	1	
8	RTE D	RT	-	1	-	1	
9	RTE D	LT	-	3	-	3	
10	RTE D	LT	34	3	-	4	
10	RTE D	RT	25	1	-	2	
11	RTE D	RT	-	1	-	1	
11	RTE D	LT	-	2	-	2	
12	RTE D	LT	-	3	-	3	
13	WARSON	LT	82	-	-	1	
13	WOODSON	RT	-	2	-	2	
13	WOODSON	LT	-	1	-	1	
	TOTAL		443	31	65	44	
	PAY TOTAL		443	31	65	44	

PEDESTRIAN FENCE

PLAN SHEET NO.	ROADWAY	STATION		STATION	LOCATION	(72 IN.) PEDESTRIAN FENCE (STRUCTURES) (LF)	REMARKS
			TO				
21	RTE D	120+36.72		120+52.12	LT	16	INSTALL ON EXISTING CULVERT HEADWALL
					PAY TOTAL	16	

RELOCATE (SIGNS)* (NO DIRECT PAY)

PAVEMENT MARKING & SIGNING SHEET NO.	ROADWAY	STATION	LOCATION	RELOCATE SIGN (EA)	REMARKS
3	RTE D	49+74.00	RT	1	REMOUNT EXIST. 'ST. LOUIS COUNTY ANIMAL CARE & CONTROL' SIGN TO THE TOP OF EXIST. POST
4	RTE D	72+20.00	LT	1	STOP SIGN
5	RTE D	73+48.00	LT	1	METRO BUS SIGN
5	RTE D	75+48.00	LT	1	STOP SIGN
7	RTE D	120+41.00	RT	1	OBJECT MARKER SIGN
9	RTE D	146+35.00	LT	1	STOP SIGN
9	RTE D	149+55.00	LT	1	'NO LEFT TURN' SIGN
			PAY TOTAL	7	

*NEW SIGNAGE POST PAID FOR WITH POST QUANTITIES FOUND ON SHEET D-29.

LINEAR GRADING, CLASS 2 MODIFIED

ROADWAY	STATION	STATION	LOCATION	LINEAR GRADING CLASS 2 MODIFIED (STA.)
RTE D	24+60	26+08	RT	1.5
RTE D	26+03	26+26	LT	0.2
RTE D	35+12	37+76	LT	2.6
RTE D	37+32	38+37	RT	1.1
RTE D	38+57	40+45	LT	1.9
RTE D	39+00	40+63	RT	1.6
RTE D	47+09	49+79	LT	2.7
RTE D	47+41	50+21	RT	2.8
RTE D	50+95	53+03	RT	2.1
RTE D	51+30	53+72	LT	2.4
RTE D	70+20	75+50	LT	5.3
RTE D	47+41	50+21	RT	2.8
DIELMAN WEST SIDE (OFFSETS)	+57	+199	-	1.4
DIELMAN EAST SIDE (OFFSETS)	+58	+197	-	1.4
RTE D	102+80	103+76	LT	1.0
RTE D	110+21	114+46	LT	4.3
RTE D	118+80	119+81	LT	1.0
RTE D	123+20	128+53	RT	5.3
RTE D	126+01	129+01	LT	3.0
RTE D	137+84	138+43	RT	0.6
WOODSON WEST SIDE (OFFSETS)	+88	+203	-	1.2
RTE D	139+64	149+57	LT	9.9
RTE D	139+43	141+50	RT	2.1
			TOTAL	58.2
			PAY TOTAL	59.0

SODDING

EC SHEET NO.	ROADWAY	LOCATION	BERMUDA SODDING (SY)	REMARKS
1	RTE D	LT	13.33	
1	RTE D	RT	238.48	
2	RTE D	LT	275.63	
2	RTE D	RT	220.27	
3	RTE D	LT	139.06	
3	RTE D	RT	75.52	
5	RTE D	LT	221.35	
5	RTE D	RT	40.58	
8	RTE D	LT	73.02	
8	RTE D	RT	23.88	
9	RTE D	LT	67.04	
9	RTE D	RT	11.93	
10	RTE D	LT	51.36	
10	RTE D	RT	47.30	
11	RTE D	LT	68.05	
11	RTE D	RT	4.11	
12	RTE D	LT	78.51	
13	WARSON	LT	60.28	
13	DIELMAN	LT	10.42	
13	DIELMAN	RT	29.07	
13	WOODSON	LT	24.68	
		TOTAL	1,774.00	
		PAY TOTAL	1774.00	

MOBILIZATION

TOTAL	1.00	LUMP SUM

CONTRACTOR FURNISHED SURVEYING AND STAKING

TOTAL	1.00	LUMP SUM

ROUTE D QUANTITIES
SHEET 06 OF 09

STATE OF MISSOURI
ALLISON M. BRUNER
NUMBER PE-2010005896
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED, AND DATED ELECTRONICALLY

Digitally signed by Allison Bruner
Date: 2026.01.02 12:44:13-06'00'

DATE PREPARED
1/2/2026

ROUTE	STATE
D	MO
DISTRICT	SHEET NO.
SL	3

COUNTY
ST. LOUIS

JOB NO.
JSL0186

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION	DATE
REVISED TOTAL LINEAR GRADING CLASS 2 MODIFIED (59.0 STA.)	1/2/2026

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

Burns & McDonnell Engineering Co., Inc.
425 South Woods Mill Road
Chesterfield, Missouri 63017
314-682-1500
Certificate of Authority
No. : 000165
BMcD Project No. 170361

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ASPHALT PATCHING

PLAN SHEET NO.	ROADWAY	STATION	STATION	LOCATION	ASPHALT AREA (SF)	ASPHALT THICKNESS (IN)	ASPHALT VOLUME (CY)	CONVERSION FACTOR (TON/YD^3)	TACK CONVERSION FACTOR (GAL/SY)	TACK COAT (NON-TRACKING) (GAL)	BITUMINOUS PAVEMENT MIXTURE PG64-22 (BP-2) (TON)	REMARKS
5	RTE D	35+70.16	35+94.13	LT	47.4	2.5	0.4	1.934	0.100	0.5	0.7	
5	RTE D	36+08.76	36+40.81	LT	63.1	2.5	0.5	1.934	0.100	0.7	0.9	
5	RTE D	37+04.21	37+21.00	LT	33.4	2.5	0.3	1.934	0.100	0.4	0.5	
6	RTE D	37+21.00	37+34.76	LT	27.2	2.5	0.2	1.934	0.100	0.3	0.4	
6	RTE D	39+64.53	40+02.41	LT	75.6	2.5	0.6	1.934	0.100	0.8	1.0	
6	RTE D	40+64.37	41+15.64	RT	102.4	2.5	0.8	1.934	0.100	1.1	1.5	
6	RTE D	42+66.76	42+71.00	RT	8.2	2.5	0.1	1.934	0.100	0.1	0.1	
7	RTE D	42+71.00	42+99.29	RT	55.9	2.5	0.4	1.934	0.100	0.6	0.8	
7	RTE D	45+91.02	46+28.20	RT	69.7	2.5	0.5	1.934	0.100	0.8	1.0	
8	RTE D	48+55.68	48+90.11	LT	63.3	2.5	0.5	1.934	0.100	0.7	0.9	
8	RTE D	51+73.85	52+22.67	RT	97.7	2.5	0.8	1.934	0.100	1.1	1.5	
11	RTE D	69+51.80	70+06.00	RT	154.6	2.5	1.2	1.934	0.100	1.7	2.3	
12	RTE D	70+06.91	70+42.70	RT	260.4	2.5	2.0	1.934	0.100	2.9	3.9	
12	RTE D	70+90.44	71+25.32	LT	68.4	2.5	0.5	1.934	0.100	0.8	1.0	
12	RTE D	74+14.96	74+64.76	LT	96.8	2.5	0.7	1.934	0.100	1.1	1.4	
18	RTE D	104+64.73	104+98.84	LT	68.3	2.5	0.5	1.934	0.100	0.8	1.0	
18	RTE D	105+24.31	106+01.78	LT	154.9	2.5	1.2	1.934	0.100	1.7	2.3	
18	RTE D	106+01.78	106+49.94	LT	268.7	2.5	2.1	1.934	0.100	3.0	4.0	
18	RTE D	106+69.94	107+12.12	LT	231.1	2.5	1.8	1.934	0.100	2.6	3.4	
18	RTE D	107+32.12	107+64.02	LT	189.8	2.5	1.5	1.934	0.100	2.1	2.8	
18	RTE D	107+64.02	107+99.92	LT	73.1	2.5	0.6	1.934	0.100	0.8	1.0	
20	RTE D	114+45.50	115+35.89	LT	181.7	2.5	1.4	1.934	0.100	2.0	2.7	
20	RTE D	115+60.86	115+93.72	LT	110.1	2.5	0.8	1.934	0.100	1.2	1.6	
20	RTE D	116+13.72	116+57.02	LT	157.2	2.5	1.2	1.934	0.100	1.7	2.3	
20	RTE D	116+57.02	116+97.02	LT	80.0	2.5	0.6	1.934	0.100	0.9	1.2	
20	RTE D	116+97.52	117+09.44	LT	50.8	2.5	0.4	1.934	0.100	0.6	0.8	
20	RTE D	117+42.09	117+85.14	LT	85.2	2.5	0.7	1.934	0.100	0.9	1.3	
21	RTE D	119+81.75	120+08.73	LT	52.1	2.5	0.4	1.934	0.100	0.6	0.8	
21	RTE D	120+57.34	120+68.60	LT	18.2	2.5	0.1	1.934	0.100	0.2	0.3	
21	RTE D	120+68.60	120+91.36	LT	45.4	2.5	0.4	1.934	0.100	0.5	0.7	
21	RTE D	120+91.36	121+22.26	LT	97.2	2.5	0.8	1.934	0.100	1.1	1.5	
21	RTE D	121+40.38	121+77.64	LT	110.7	2.5	0.9	1.934	0.100	1.2	1.7	
21	RTE D	121+77.64	122+17.64	LT	80.0	2.5	0.6	1.934	0.100	0.9	1.2	
21	RTE D	122+41.47	122+71.61	LT	60.2	2.5	0.5	1.934	0.100	0.7	0.9	
21	RTE D	123+46.07	123+73.91	RT	55.4	2.5	0.4	1.934	0.100	0.6	0.8	
21	RTE D	123+63.51	124+05.41	LT	82.0	2.5	0.6	1.934	0.100	0.9	1.2	
21	RTE D	123+73.91	123+95.25	RT	58.6	2.5	0.5	1.934	0.100	0.7	0.9	
21	RTE D	123+95.25	124+19.86	RT	49.2	2.5	0.4	1.934	0.100	0.5	0.7	
21	RTE D	124+05.41	124+41.19	LT	108.9	2.5	0.8	1.934	0.100	1.2	1.6	
21	RTE D	124+31.16	124+42.69	RT	13.5	2.5	0.1	1.934	0.100	0.1	0.2	
21	RTE D	124+41.19	124+71.48	LT	60.6	2.5	0.5	1.934	0.100	0.7	0.9	
21	RTE D	124+71.48	124+86.78	LT	44.2	2.5	0.3	1.934	0.100	0.5	0.7	
21	RTE D	124+92.00	125+15.23	RT	46.5	2.5	0.4	1.934	0.100	0.5	0.7	
21	RTE D	125+06.16	125+21.00	LT	36.4	2.5	0.3	1.934	0.100	0.4	0.5	
22	RTE D	125+21.00	125+41.16	LT	90.2	2.5	0.7	1.934	0.100	1.0	1.3	
22	RTE D	125+46.23	125+70.45	RT	48.4	2.5	0.4	1.934	0.100	0.5	0.7	
22	RTE D	125+96.98	126+21.79	RT	49.6	2.5	0.4	1.934	0.100	0.6	0.7	
22	RTE D	127+23.55	127+33.55	LT	55.0	2.5	0.4	1.934	0.100	0.6	0.8	
22	RTE D	129+12.07	129+46.70	LT	193.9	2.5	1.5	1.934	0.100	2.2	2.9	
22	RTE D	129+71.70	129+77.09	LT	14.3	2.5	0.1	1.934	0.100	0.2	0.2	
22	RTE D	130+29.99	130+39.99	LT	39.3	2.5	0.3	1.934	0.100	0.4	0.6	
23	RTE D	130+83.23	130+93.18	LT	70.7	2.5	0.5	1.934	0.100	0.8	1.1	
23	RTE D	131+06.80	131+43.43	LT	308.0	2.5	2.4	1.934	0.100	3.4	4.6	
23	RTE D	131+53.43	132+19.34	LT	457.0	2.5	3.5	1.934	0.100	5.1	6.8	
23	RTE D	132+29.86	132+34.64	LT	38.0	2.5	0.3	1.934	0.100	0.4	0.6	
23	RTE D	133+62.60	133+71.41	LT	23.3	2.5	0.2	1.934	0.100	0.3	0.3	
23	RTE D	133+80.16	133+93.18	LT	80.7	2.5	0.6	1.934	0.100	0.9	1.2	
24	RTE D	138+57.15	139+63.14	LT	862.4	3.5	9.3	1.934	0.100	9.6	18.0	
24	RTE D	140+67.57	141+10.46	RT	83.7	2.5	0.6	1.934	0.100	0.9	1.2	
25	RTE D	143+30.03	143+63.01	LT	65.3	2.5	0.5	1.934	0.100	0.7	1.0	
25	RTE D	144+47.25	144+77.21	LT	59.9	2.5	0.5	1.934	0.100	0.7	0.9	
25	RTE D	145+03.23	145+33.67	LT	60.2	2.5	0.5	1.934	0.100	0.7	0.9	
25	RTE D	145+80.18	146+09.87	LT	54.7	2.5	0.4	1.934	0.100	0.6	0.8	
26	RTE D	147+51.92	147+84.79	LT	62.9	2.5	0.5	1.934	0.100	0.7	0.9	
26	RTE D	149+02.40	149+33.49	LT	59.5	2.5	0.5	1.934	0.100	0.7	0.9	
-	RTE D	-	-	-	4800.0	2.5	37.0	1.934	0.100	53.3	71.6	TO BE USED AT DISCRETION OF ENGINEER
									SUBTOTAL	127.5	176.3	
									PAY TOTAL	128.0	176.3	

COLDMILLING

PLAN SHEET NO.	ROADWAY	COLDMILLING BITUMINOUS PAVEMENT FOR REMOVAL OF SURFACING (<3 IN.) (SY)	REMARKS
-	RTE D	105.0	AREA NEAR WOODSON RD INTERSECTION
-	RTE D	395.0	TO BE USED AT DISCRETION OF ENGINEER
	SUBTOTAL	500.0	
	PAY TOTAL	500	

PAVED APPROACH AND SIDE STREETS

PLAN SHEET NO.	ROADWAY	STATION	LOCATION	WIDTH (LF)	AREA (SF)	AREA (SY)	PAVED APPROACH, 8-IN (SY)	TYPE 5 AGGREGATE FOR BASE (4-IN THICK) (SY)	REMARKS
5	RTE D	35+81.99	LT	24.0	408.4	45.4	45.4	47.7	COMMERCIAL ENTRANCE
5	RTE D	36+24.61	LT	31.9	572.7	63.6	63.6	66.8	COMMERCIAL ENTRANCE
5 & 6	RTE D	37+19.63	LT	30.2	586.4	65.2	65.2	68.5	COMMERCIAL ENTRANCE
6	RTE D	39+82.78	LT	37.8	802.3	89.1	89.1	93.6	COMMERCIAL ENTRANCE
6	RTE D	40+89.98	RT	51.2	917.8	102.0	102.0	107.1	COMMERCIAL ENTRANCE
6 & 7	RTE D	42+83.43	RT	31.8	640.1	71.1	71.1	74.7	COMMERCIAL ENTRANCE
7	RTE D	46+10.77	RT	33.0	655.4	72.8	72.8	76.4	COMMERCIAL ENTRANCE
7	RTE D	47+76.23	RT	20.0	400.5	44.5	44.5	46.7	COMMERCIAL ENTRANCE
7 & 8	RTE D	48+12.56	LT	29.8	607.1	67.5	67.5	70.9	COMMERCIAL ENTRANCE
8	RTE D	48+72.83	LT	34.3	690.9	76.8	76.8	80.6	COMMERCIAL ENTRANCE
8	RTE D	48+74.17	RT	43.4	825.8	91.8	91.8	96.4	COMMERCIAL ENTRANCE
8	RTE D	51+98.27	RT	48.8	918.6	102.1	102.1	107.2	COMMERCIAL ENTRANCE
8	RTE D	52+28.69	LT	29.6	549.2	61.0	61.0	64.1	COMMERCIAL ENTRANCE
8	RTE D	53+08.26	LT	29.5	415.8	46.2	46.2	48.5	COMMERCIAL ENTRANCE
11	RTE D	69+74.57	RT	45.0	743.0	82.6	82.6	86.7	COMMERCIAL ENTRANCE
12	RTE D	71+07.65	LT	35.0	710.5	78.9	78.9	82.8	COMMERCIAL ENTRANCE
12	RTE D	72+46.38	LT	34.5	863.3	95.9	95.9	100.7	DYER AVENUE
12	RTE D	74+39.67	LT	49.0	632.1	70.2	70.2	73.7	COMMERCIAL ENTRANCE
17 & 18	RTE D	103+32.95	LT	37.1	470.7	52.3	52.3	54.9	COMMERCIAL ENTRANCE
18	RTE D	104+81.56	LT	39.5	627.3	69.7	69.7	73.2	COMMERCIAL ENTRANCE
18	RTE D	105+54.76	LT	75.0	1268.6	141.0	141.0	148.1	COMMERCIAL ENTRANCE
18	RTE D	106+59.94	LT	20.0	404.9	45.0	45.0	47.3	COMMERCIAL ENTRANCE
18	RTE D	107+22.12	LT	20.0	404.9	45.0	45.0	47.3	COMMERCIAL ENTRANCE
18	RTE D	107+81.72	LT	36.5	755.7	84.0	84.0	88.2	COMMERCIAL ENTRANCE
18	RTE D	108+54.56	LT	15.8	329.0	36.6	36.6	38.4	COMMERCIAL ENTRANCE
19	RTE D	111+31.43	LT	21.5	365.6	40.6	40.6	42.6	RESIDENTIAL ENTRANCE
19	RTE D	111+88.86	LT	11.3	231.6	25.7	25.7	27.0	RESIDENTIAL ENTRANCE
19	RTE D	112+37.47	LT	12.6	315.8	35.1	35.1	36.9	RESIDENTIAL ENTRANCE
19	RTE D	112+87.39	LT	11.1	301.3	33.5	33.5	35.2	RESIDENTIAL ENTRANCE
19	RTE D	113+63.78	LT	16.9	247.8	27.5	27.5	28.9	RESIDENTIAL ENTRANCE
19	RTE D	113+91.29	LT	10.8	218.3	24.3	24.3	25.5	RESIDENTIAL ENTRANCE
20	RTE D	115+51.69	LT	19.6	404.5	44.9	44.9	47.1	COMMERCIAL ENTRANCE
20	RTE D	116+03.72	LT	20.0	421.4	46.8	46.8	49.1	COMMERCIAL ENTRANCE
20	RTE D	116+77.02	LT	40.2	667.3	74.1	74.1	77.8	COMMERCIAL ENTRANCE
20	RTE D	117+63.48	LT	42.3	635.0	70.6	70.6	74.1	COMMERCIAL ENTRANCE
20	RTE D	118+45.27	LT	54.5	880.8	97.9	97.9	102.8	PAGEWOOD AVENUE
21	RTE D	119+97.11	LT	26.7	610.9	67.9	67.9	71.3	COMMERCIAL ENTRANCE
21	RTE D	120+79.96	LT	22.8	424.5	47.2	47.2	49.6	COMMERCIAL ENTRANCE
21	RTE D	121+31.35	LT	18.1	329.9	36.7	36.7	38.5	COMMERCIAL ENTRANCE
21	RTE D	121+97.64	LT	40.0	606.7	67.4	67.4	70.8	COMMERCIAL ENTRANCE
21	RTE D	122+55.02	LT	27.0	492.4	54.7	54.7	57.4	COMMERCIAL ENTRANCE
21	RTE D	123+11.58	LT	43.0	885.7	98.4	98.4	103.3	BURNS AVENUE
21	RTE D	123+60.00	RT	28.4	474.9	52.8	52.8	55.4	COMMERCIAL ENTRANCE
21	RTE D	123+86.06	LT	38.7	540.9	60.1	60.1	63.1	COMMERCIAL ENTRANCE
21	RTE D	124+12.90	RT	35.9	515.1	57.2	57.2	60.1	COMMERCIAL ENTRANCE
21	RTE D	124+56.34	LT	30.3	438.5	48.7	48.7	51.1	COMMERCIAL ENTRANCE
21	RTE D	124+96.47	LT	19.4	306.1	34.0	34.0	35.7	COMMERCIAL ENTRANCE
21	RTE D	125+03.59	RT	23.2	487.1	54.1	54.1	56.8	COMMERCIAL ENTRANCE
22	RTE D	125+58.36	RT	24.1	635.5	70.6	70.6	74.1	COMMERCIAL ENTRANCE
22	RTE D	125+71.15	LT	60.0	1453.2	161.5	161.5	169.6	RESIDENTIAL ENTRANCE
22	RTE D	126+09.18	RT	24.9	652.2	72.5	72.5	76.1	COMMERCIAL ENTRANCE
22	RTE D	126+48.06	LT	9.2	253.7	28.2	28.2	29.6	RESIDENTIAL ENTRANCE
22	RTE D	126+65.28	RT	19.5	388.8	43.2	43.2	45.4	COMMERCIAL ENTRANCE
22	RTE D	126+95.50	LT	35.7	640.0	71.1	71.1	74.7	RESIDENTIAL ENTRANCE
22	RTE D	127+39.04	LT	11.5	248.1	27.6	27.6	29.0	RESIDENTIAL ENTRANCE
22	RTE D	127+92.19	LT	11.7	269.9	30.0	30.0	31.5	RESIDENTIAL ENTRANCE
22	RTE D	128+41.49	LT	11.0	236.6	26.3	26.3	27.6	RESIDENTIAL ENTRANCE
22	RTE D	129+07.07	LT	10.6	279.0	31.0	31.0	32.6	RESIDENTIAL ENTRANCE
22	RTE D	129+59.20	LT	25.0	479.5	53.3	53.3	56.0	RESIDENTIAL ENTRANCE
22	RTE D	130+10.77	LT	38.4	536.2	59.6	59.6	62.6	RESIDENTIAL ENTRANCE
22 & 23	RTE D	130+49.99	LT	43.3	730.8	81.2	81.2	85.3	RESIDENTIAL ENTRANCE
23	RTE D	130+99.89	LT	13.9	329.5	36.6	36.6	38.4	RESIDENTIAL ENTRANCE
23	RTE D	131+48.43	LT	10.0	270.1	30.0	30.0	31.5	RESIDENTIAL ENTRANCE
23	RTE D	132+24.86	LT	10.0	238.6	26.5	26.5	27.8	RESIDENTIAL ENTRANCE
23	RTE D	132+39.86 132+75.40 133+00.40	LT	95.2	1724.5	191.6	191.6	201.2	RESIDENTIAL ENTRANCE
23	RTE D	133+75.86	LT	7.8	181.7	20.2	20.2	21.2	RESIDENTIAL ENTRANCE
23	RTE D	134+25.57 134+71.61	LT	66.6	1332.4	148.0	148.0	155.4	COMMERCIAL ENTRANCE
24	WOODSON	0+88.03	RT	40.0	830.2	92.2	92.2	96.8	COMMERCIAL ENTRANCE
24	WOODSON	1+63.13	RT	48.0	975.7	108.4	108.4	113.8	COMMERCIAL ENTRANCE
24	WOODSON	1+84.65	LT	40.2	587.7	65.3	65.3	68.6	COMMERCIAL ENTRANCE
24	RTE D	139+44.17	LT	39.1	682.2	75.8	75.8	79.6	COMMERCIAL ENTRANCE
24	RTE D	139+86.26	LT	15.8	308.4	34.3	34.3	36.0	COMMERCIAL ENTRANCE
24	RTE D	140+30.25	LT	15.4	314.0	34.9	34.9	36.6	COMMERCIAL ENTRANCE
24	RTE D	140+91.16	RT	37.9	458.3	50.9	50.9	53.4	COMMERCIAL ENTRANCE
24	RTE D	141+12.99	LT	22.0	382.4	42.5	42.5	44.6	COMMERCIAL ENTRANCE
24 & 25	RTE D	141+74.72	LT	15.6	307.1	34.1	34.1	35.8	COMMERCIAL ENTRANCE
25	RTE D	142+53.09	LT	13.4	315.8	35.1	35.1	36.9	COMMERCIAL ENTRANCE
25	RTE D	143+46.90	LT	33.0	469.9	52.2	52.2	54.8	COMMERCIAL ENTRANCE
25	RTE D	144+62.24	LT	30.0	719.4	79.9	79.9	83.9	COMMERCIAL ENTRANCE
25	RTE D	145+18.81	LT	30.0	518.3	57.6	57.6	60.5	COMMERCIAL ENTRANCE
25	RTE D	145+94.96	LT	29.2	537.4	59.7	59.7	62.7	COMMERCIAL ENTRANCE
25	RTE D	146+59.39	LT	43.4	997.6	110.8	110.8	116.3	HURSTGREEN DRIVE
26	RTE D	147+67.64	LT	32.3	558.6	62.1	62.1	65.2	COMMERCIAL ENTRANCE
26	RTE D	149+18.34	LT	31.1	409.1	45.5	45.5	47.8	COMMERCIAL ENTRANCE
							TOTAL	5,250.8	5,513.5	
							PAY TOTAL	5,250.8	-	

ROUTE D QUANTITIES
SHEET 07 OF 09

STATE OF MISSOURI
ALLISON M. BRUNER
NUMBER PE-2010005896
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED, AND DATED ELECTRONICALLY
Digitally signed by Allison Bruner
Date: 2026.01.02 12:44:13-06'00'

DATE PREPARED
1/2/2026

ROUTE	STATE
D	MO
DISTRICT	SHEET NO.
SL	3

COUNTY
ST. LOUIS

JOB NO.
JSL0186

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)

Burns & McDonnell Engineering Co., Inc.
425 South Woods Mill Road
Chesterfield, Missouri 63017
314-682-1500
Certificate of Authority
No. : 000165
BMcD Project No. 170361

DRAINAGE ITEMS

PLAN SHEET NO.	ROADWAY	STATION	LOCATION	12 IN. PIPE, GROUP A (LF)	24 IN. PIPE, GROUP A (LF)	PIPE COLLAR, TYPE A (EA)	CURVED VANE GRATE AND FRAME (2 FT. X 2 FT. OR 1200MM X 600MM) (EA)	PRECAST CONCRETE DROP INLET (2 FT X 2 FT) (EA)	PRECAST CONCRETE DROP INLET (5 FT X 3 FT) (EA)	GRATE AND BEARING PLATE (4 FT X 2 FT) (EA)	GRATE AND BEARING PLATE (5 FT X 3 FT) (EA)	MANHOLE FRAME AND COVER, TYPE 1-B (EA)	CLASS 3 EXCAVATION (CY)	REMARKS
3	RTE D	25+52.00	RT			1			1		1		1.6	INLET 1R - CONVERT EXISTING FES TO CURB INLET
5	RTE D	36+01.00	LT	2			2	2				1	1.5	INLET 1L - ADD DROP INLET AND CONVERT GRATE TO MANHOLE
8	RTE D	50+00.20	RT							1				EXIST. CURB INLET TOP DAMAGED. REPLACE.
17	RTE D	99+05.02	RT		154									REPLACE PIPE CONNECTING PAVED DITCH TO INLET.
19	RTE D	110+31.25	LT							1				CONVERT EXIST. BROKEN GRATE INLET TO CURB INLET TO ACHIEVE 5' OF ADA PATH IN FRONT OF EXIST. SIGNAL MAST ARM FOUNDATION.
			PAY TOTAL	2	154	1	2	2	1	2	1	1	3	

DRAINAGE FLUME

PLAN SHEET NO.	ROADWAY	STATION	LOCATION	4 FT X 4 FT DRAINAGE FLUME (OPEN) (EA)	9 FT X 4 FT DRAINAGE FLUME (OPEN) (EA)	REMARKS
3	RTE D	25+55.00	RT	1		
6	RTE D	41+86.48	RT		1	
			PAY TOTAL	1	1	

REMOVAL OF IMPROVEMENTS (DRAINAGE) (NO DIRECT PAY)

PLAN SHEET NO.	ROADWAY	STATION	OFFSET	LOCATION	REMARKS
3	RTE D	25+55.57	39	RT	REMOVE FES
5	RTE D	36+00.56	38	LT	REMOVE INLET TOP
8	RTE D	50+00.20	49	RT	REMOVE INLET TOP
12	RTE D	70+87.87	42	RT	REMOVE INLET
12	RTE D	71+06.02	38	RT	REMOVE 12" RCP
19	RTE D	110+31.25	36	LT	REMOVE INLET TOP
26	RTE D	149+18.34	38	LT	REMOVE INLET
		PAY TOTAL	1	LUMP SUM	

INLET AND MANHOLE ADJUSTMENTS TO GRADE

PLAN SHEET NO.	ROADWAY	STATION	OFFSET (FT)	LOCATION	ADJUSTING MSD STORM OR SANITARY MANHOLE (EA)	ADJUSTING MANHOLE (EA)	ADJUSTING BASIN OR INLET (EA)	ADJUST PULL BOX (EA)	ADJUST WATER VALVE (EA)	ADJUST GAS VALVE (EA)	REMARKS
6	RTE D	37+93.66	54	RT				1			PULL BOX ADJUSTMENT IN RAMP
7	RTE D	45+55.86	35	RT			1				STORM CURB INLET TOP ADJUSTMENT IN SIDEWALK
7	RTE D	48+11.51	38	RT		1					COMMUNICATION MANHOLE ADJUSTMENT IN SIDEWALK (NO DIRECT PA
8	RTE D	49+50.08	44	LT	1						MANHOLE ADJUSTMENT
8	RTE D	48+69.20	47	LT			1				STORM CURB INLET TOP ADJUSTMENT IN ENTRANCE
8	RTE D	50+19.78	44	RT						1	GAS VALVE ADJUSTMENT IN ROAD
8	RTE D	51+02.12	74	RT						1	GAS VALVE ADJUSTMENT IN SIDEWALK
8	RTE D	51+45.05	40	LT				1			PULL BOX ADJUSTMENT IN SIDEWALK
8	RTE D	52+16.14	38	LT				1			PULL BOX ADJUSTMENT IN ENTRANCE
8	RTE D	53+10.62	38	LT				1			PULL BOX ADJUSTMENT IN ENTRANCE
12	RTE D	70+25.31	47	RT		1					AT&T MANHOLE ADJUSTMENT IN SIDEWALK
13	RTE D	70+80.53	39	LT	1						STORM MANHOLE ADJUSTMENT IN SIDEWALK
13	RTE D	72+44.99	39	LT	1						SANITARY MANHOLE ADJUSTMENT IN ENTRANCE
18	RTE D	103+61.63	49	LT						1	GAS VALVE ADJUSTMENT IN SIDEWALK
18	RTE D	105+06.53	36	LT					1		WATER VALVE ADJUSTMENT IN ENTRANCE
19	RTE D	109+49.38	37	RT				1			PULL BOX ADJUSTMENT IN SIDEWALK
19	RTE D	110+28.51	43	LT				1			PULL BOX ADJUSTMENT IN SIDEWALK
19	RTE D	112+98.90	38	LT	1						SANITARY MANHOLE ADJUSTMENT IN SIDEWALK
20	RTE D	115+98.30	35	LT	1						SANITARY MANHOLE ADJUSTMENT IN ENTRANCE
20	RTE D	118+14.10	37	LT			1				GRATE INLET ADJUSTMENT IN ENTRANCE
21	RTE D	123+53.65	35	LT			1				INLET ADJUSTMENT IN CURB
21	RTE D	123+71.28	40	LT						1	GAS VALVE ADJUSTMENT IN ENTRANCE
22	RTE D	125+71.67	41	LT						1	GAS VALVE ADJUSTMENT IN ENTRANCE (NO DIRECT PAY)
22	RTE D	130+42.17	47	LT	1						MSD MANHOLE ADJUSTMENT IN ENTRANCE
23	RTE D	132+83.89	47	LT	1						SANITARY MANHOLE IN ENTRANCE
23	RTE D	132+94.68	47	LT		1					LUMEN MANHOLE (NO DIRECT PAY - BY OTHERS)
23	RTE D	133+06.93	46	LT		1					LUMEN MANHOLE (NO DIRECT PAY - BY OTHERS)
23	RTE D	134+35.30	49	LT						1	GAS VALVE IN ENTRANCE
23	RTE D	134+54.44	49	LT					1		WATER VALVE IN ENTRANCE
24	RTE D	138+36.92	83	RT				1			PULL BOX ADJUSTMENT IN SIDEWALK
24	RTE D	138+61.17	132	LT			1				INLET ADJUSTMENT TO GRADE
24	RTE D	139+43.60	53	LT		1					COMMUNICATION MANHOLE ADJUSTMENT IN ENTRANCE (NO DIRECT PA
24	RTE D	139+57.12	52	LT		1					COMMUNICATION MANHOLE ADJUSTMENT IN ENTRANCE (NO DIRECT PA
25	RTE D	142+25.72	51	LT					1		WATER VALVE ADJUSTMENT
25	RTE D	142+38.66	48	LT						1	GAS VALVE ADJUSTMENT IN SIDEWALK
25	RTE D	146+84.17	51	LT						1	GAS VALVE ADJUSTMENT IN SIDEWALK
25	RTE D	144+15.88	43	LT		1					LUMEN MANHOLE (NO DIRECT PAY - BY OTHERS)
25	RTE D	144+31.49	43	LT		1					LUMEN MANHOLE (NO DIRECT PAY - BY OTHERS)
25	RTE D	146+84.32	45	LT						1	GAS VALVE ADJUSTMENT IN SIDEWALK (NO DIRECT PAY)
-	RTE D	-	-	-	2	2	2	2			AT ENGINEERS DISCRETION
				TOTAL:	9	10	7	9	3	9	
				PAY TOTAL:	9	7	7	9	3	8	

ROUTE D QUANTITIES
SHEET 08 OF 09

STATE OF MISSOURI
ALLISON M. BRUNER
NUMBER PE-2019005896
PROFESSIONAL ENGINEER

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Digitally signed by Allison Bruner
Date: 2025.12.19 09:38:34-06'00'

DATE PREPARED
12/17/2025

ROUTE	STATE
D	MO
DISTRICT	SHEET NO.
SL	3

COUNTY
ST. LOUIS

JOB NO.
JSL0186

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION	DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
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PERMANENT PAVEMENT MARKING

PLN SHEET NO.	ROADWAY	STATION	STATION	LOCATION	CLASS 2 PAVEMENT MARKING PAINT, TYPE L BEADS					PREFORMED THERMOPLASTIC PAVEMENT MARKING					PAVEMENT MARKING REMOVAL						REMARKS
					6-IN SOLID WHITE (LF)	4-IN SOLID YELLOW (LF)	24-IN SOLID WHITE STOP BAR (LF)	24-IN SOLID WHITE CROSSWALK (FOR INFO ONLY) (EA_)	24-IN SOLID WHITE CROSSWALK (LF)	24-IN SOLID WHITE STOP BAR (LF)	24-IN SOLID WHITE CROSSWALK (FOR INFO ONLY) (EA)	24-IN SOLID WHITE CROSSWALK (LF)	LEFT ARROW (EA)	YIELD TRIANGLE WHITE (EA)	SOLID WHITE (LF)	SOLID YELLOW (LF)	INTERMITTENT YELLOW (LF)	SOLID WHITE STOP BAR (LF)	LT/RT ARROW WHITE (EACH)	YIELD TRIANGLE WHITE (EA)	
3	RTE D	20+71.00	26+21.00	LT & RT				12	96												MEASURED IN CAD, GALT INDUSTRIAL BLVD
6	RTE D	37+21.00	42+71.00	LT & RT	123		36	35	280					12	46			36			MEASURED IN CAD, WARSON RD
8	RTE D	48+21.00	53+71.00	LT & RT						54	44	352		8	43			47		10	MEASURED IN CAD, ASHBY RD
11,12	RTE D	69+35.00	75+71.00	LT & RT	82	261	63	17	136				2		135	388	55	47	4		MEASURED IN CAD, PAGE INDUSTRIAL
17	RTE D	97+71.00	103+21.00	LT & RT						34	30	240			7	9		33			MEASURED IN CAD, DIELMAN RD
24	RTE D	136+21.00	141+71.00	LT & RT				68	544												MEASURED IN CAD, WOODSON RD
				TOTAL	205	261	99	-	1,056	88	-	592	2	20	231	397	55	163	4	10	
				PAY TOTAL	205	261	1,155			680			2	20	846				4	10	

D37A SIGNAL QUANTITIES SUMMARY

D-37A SHEET NO.	ROADWAY	INTERSECTION	CONCRETE BASE	PULL BOX CL 1	PULL BOX CL 2	POST SIGNAL 8 FT.	PEDESTRIAN PUSH-BUTTON STANCHION	POST TYPE C		POST TYPE CL	LUMINAIRE LED-A	SIGNAL HEADS ONE-FACE SECTION		
								35' ARM (EACH)	50' ARM (EACH)	45' ARM (EACH)		1-	3-	4-
			(CU. YDS.)	(EACH)	(EACH)	(EACH)	(EACH)				EACH	S	B	B
120	ROUTE D	LINPAGE PL.	0.9		1	2						2		
126	ROUTE D	WARSON RD.	2.7	1		6						6		
132	ROUTE D	ASHBY RD.	1.8		2	4						6		
138	ROUTE D	PAGE INDUSTRIAL BLVD	11.4	1	3	4		1	1	1	1	4	6	1
144	ROUTE D	DIELMAN RD	0.5			1						1		
150	ROUTE D	SPENCER AVE	0.5			1						1		
156	ROUTE D	WOODSON RD	1.4			2	1					4		
		TOTAL	19.2	2	6	20	1	1	1	1	1	24	6	1
		PAY TOTAL	19.2	2	6	20	1	1	1	1	1	24	6	1

TEMPORARY TRAFFIC CONTROL

	TEMPORARY TRAFFIC CONTROL	CHANGEABLE MESSAGE SIGN WITH COMMUNICATIONS INTERFACE, CONTRACTOR FURNISHED/ RETAINED	TEMPORARY TRAFFIC SIGNAL
	LS	EA	LS
PAY TOTAL	1	3	1

D37B SIGNAL QUANTITIES SUMMARY

D-37B SHEET NO.	ROADWAY	INTERSECTION	3" TRENCH CONDUIT	3" PUSHED CONDUIT	1c#2	2c#16	5c#16	7c#16	LIGHTING	
									2c#12	1c#10
			LF	LF	LF	LF	LF	LF	LF	LF
121	ROUTE D	LINPAGE PL.	26	98		440	440	640	250	100
127	ROUTE D	WARSON RD.	68	64		1040	1050			
133	ROUTE D	ASHBY RD.	54	264		930	940	1920	200	80
139	ROUTE D	PAGE INDUSTRIAL BLVD	126	139	170	570	570	530	40	90
145	ROUTE D	DIELMAN RD	17			310	160			
151	ROUTE D	SPENCER AVE	52		170	60	210			
157	ROUTE D	WOODSON RD	28			820	440			
		TOTAL	371	565	340	4170	3810	3090	490	270
		PAY TOTAL	371	565	340	4170	3810	3090	490	270

DELINEATORS AND MARKERS

PLAN SHEET NO	ROADWAY	STATION	LOCATION	18 IN. TUBULAR MARKER (EA)	REMARKS
6	RTE D	38+66.16	RT	1	
6	RTE D	38+70.46	RT	1	
6	RTE D	38+89.18	RT	1	
11	RTE D	69+36.76	LT	1	
12	RTE D	70+10.76	LT	1	
12	RTE D	71+37.72	RT	1	
12	RTE D	72+16.72	RT	1	
			PAY TOTAL	7	

D37C SIGNAL QUANTITIES SUMMARY

D-37C SHEET NO.	ROADWAY	INTERSECTION	COMBINATION PAD-MOUNTED 120V/240V POWER SUPPLY AND LIGHTING CONTROLLER WITH UPS	CONTROLLER ASSEMBLY HOUSING NEMA TS2 CONTROLLER	ATC TRAFFIC SIGNAL CONTROLLER	NETWORK CONNECTED SIGNAL MONITOR	SIGNAL SIGNS	SIGNAL SIGN MOUNTING HARDWARE	ACCESSIBLE PEDESTRIAN PUSHBUTTON AND SIGNING	SL DISTRICT TRAFFIC SIGNAL DETECTION SYSTEM		SIGNAL CABINET BASE WRAP	TEMPORARY GENERATOR	TRAFFIC SIGNAL MAINTENANCE & PROGRAMMING
										3 APPROACHES	4 APPROACHES			
			EACH	EACH	EACH	EACH	SQ. FT.	EACH	EACH	EACH	EACH	EACH	EACH	LS
122	ROUTE D	LINPAGE PL.			1				2		1			-
128	ROUTE D	WARSON RD.			1				3		1			-
134	ROUTE D	ASHBY RD.			1				3		1			-
140	ROUTE D	PAGE INDUSTRIAL BLVD	1	1	1	1	39	3	4	1			1	-
146	ROUTE D	DIELMAN RD			1				4		1			-
152	ROUTE D	SPENCER AVE			1				1		1	1	1	-
158	ROUTE D	WOODSON RD			1				3		1			-
N/A	ROUTE D	SEVEN-UP DRIVE			1						1			-
		TOTAL	1	1	8	1	39	3	29	1	7	1	2	1
		PAY TOTAL	1	1	8	1	39	3	29	8		1	2	1

Bid Item No.	Item	Unit	ASHBY RD RT0DDW003.6	PAGE IND. BLVD RT0DDE003.9	Project Total	Notes
910-99.02	Wall Mounted Interconnect Center	Each	0	1	1	
910-99.02	Fiber Optic Pigtail	Each	2	4	6	
910-99.02	Fiber Optic Jumper	Each	0	4	4	
910-99.02	Fiber Optic Fusion Splice	Each	18	20	38	
910-99.02	Install or Relocate Communication Equipment	Each	0	1	1	
910-99.02	Install CCTV Camera Assembly	Each	0	1	1	
910-99.02	Install Commission Furnished and Programmed IP-Addressable Power Strip	Each	0	1	1	
910-99.01	ITS Asset Management Tool	L.S.			1	
910-99.01	Removal of Existing Fiber Optic Cable	L.S.			1	Approx 2000' between Ashby and Page Industrial
910-99.03	Fiber Optic Cable, 24 Strand, Single Mode	L.F.			2,000	Approx 2000' between Ashby and Page Industrial
910-99.02	ITS Pull Box with Concrete Pad, Preformed Class 5	Each		1	1	
910-99.02	Conduit_and_Pull Box_System_Adjustment_or_Repair	Each		1	1	to connect new ITS pull box to the ex. Conduit

ROUTE D QUANTITIES
SHEET 09 OF 09

STATE OF MISSOURI
ALLISON M. BRUNER
NUMBER PE-2010005896
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED, AND DATED ELECTRONICALLY

Digitally signed by Allison Bruner
Date: 2025.12.19 09:38:34-06'00'

DATE PREPARED
12/18/2025

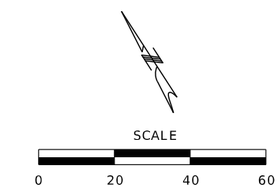
ROUTE D | STATE MO
DISTRICT SL | SHEET NO. 3
COUNTY ST. LOUIS
JOB NO. JSL0186
CONTRACT ID.
PROJECT NO.
BRIDGE NO.

DESCRIPTION | DATE

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

Burns & McDonnell Engineering Co., Inc.
425 South Woods Mill Road
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Certificate of Authority
No. : 000165
BMcD Project No. 170361

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NO PROPOSED
IMPROVEMENTS THIS SHEET

PLAN SHEET LEGEND

CE	-	COMMERCIAL ENTRANCE
PE	-	PRIVATE ENTRANCE
UIP	-	USE IN PLACE
ATG	-	ADJUST TO GRADE
DND	-	DO NOT DISTURB
R	-	REMOVE
R&RELOC	-	REMOVE & RELOCATE
PSE	-	PERMANENT SIDEWALK EASEMENT
TCE	-	TEMPORARY CONSTRUCTION EASEMENT

10

15

SURVEY ℄ ROUTE D

PT STA 14+20.22 R2

S47°46'02"E

MATCHLINE STA. 15+21

PI	11+43.12
PC	8+53.80
PT	14+20.22
Δ	28°47'0.0" (RT)
D	5°4'54.0"
L	566.42' (ARC)
T	289.32'
R	1,127.50'

LEGEND

- PAVED APPROACH
- PROPOSED SIDEWALK
- ASPHALT PATCHING
- EX. SIDEWALK / RAMP (UIP)
- RAMP / LANDING
- TRUNCATED DOMES

KEYED NOTES

- (A) SMALL RADIUS PERPENDICULAR CURB RAMP
- (B) LARGE RADIUS PERPENDICULAR CURB RAMP

NOTES:

1. SEE SIGNAL PLANS FOR DETAILS NEAR SIGNALIZED INTERSECTIONS.
2. SEE DRIVEWAY PROFILES SHEETS FOR DRIVEWAY GRADES.
3. ALL WORK NOTED ON PLANS TO ADJUST, RELOCATE, OR REMOVE WATER METERS/ VALVES, HYDRANTS, UTILITY POLES, LIGHT POLES, OR GUY WIRES SHALL BE PREFORMED BY OTHERS. THE CONTRACTOR SHALL COORDINATE TIMING OF THE ADJUSTMENT NEEDS WITH THE UTILITY CONTRACT PROVIDED IN THE JSP IF THE ADJUSTMENT HAS NOT OCCURRED PRIOR TO CONSTRUCTION WHICH IS INDICATED ON THE SUMMARY OF QUANTITY SHEETS.
4. CLEARING AND GRUBBING IS INCIDENTAL TO OTHER PAY ITEMS.
5. BEARINGS SHOWN ARE MODIFIED STATE PLAN BEARINGS, EASTERN ZONE.
6. ANY ITEMS OF WORK BEYOND THE PROJECT LIMITS AND NOT DEFINED AS ITEMS CONSIDERED FOR DIRECT PAY ARE INCIDENTAL TO, AND A PART OF THE CONSTRUCTION OF THE PROJECT.
7. ALL RIGHT OF WAY ACQUISITIONS INDICATED ON THE PRELIMINARY PLANS ARE TENTATIVE AND SUBJECT TO CHANGE.
8. ALL EXISTING STORM NETWORK TO BE MAINTAINED UNLESS OTHERWISE SHOWN ON THE PLANS OR DIRECTED BY THE ENGINEER.
9. UTILITY PLANS FOR FULL NOTES ON UTILITY FACILITIES, WHAT IS TO REMAIN, TO BE ADJUSTED, TO BE REMOVED, TO BE RELOCATED, OR NOT TO BE DISTURBED.

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

ROUTE D PLAN
SHEET 01 OF 28

STATE OF MISSOURI
ALLISON M. BRUNER
NUMBER PE-2019005896
PROFESSIONAL ENGINEER

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Digitally signed by Allison Bruner
Date: 2025.12.19 09:38:35-06'00'

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D	MO
DISTRICT	SHEET NO.
SL	4

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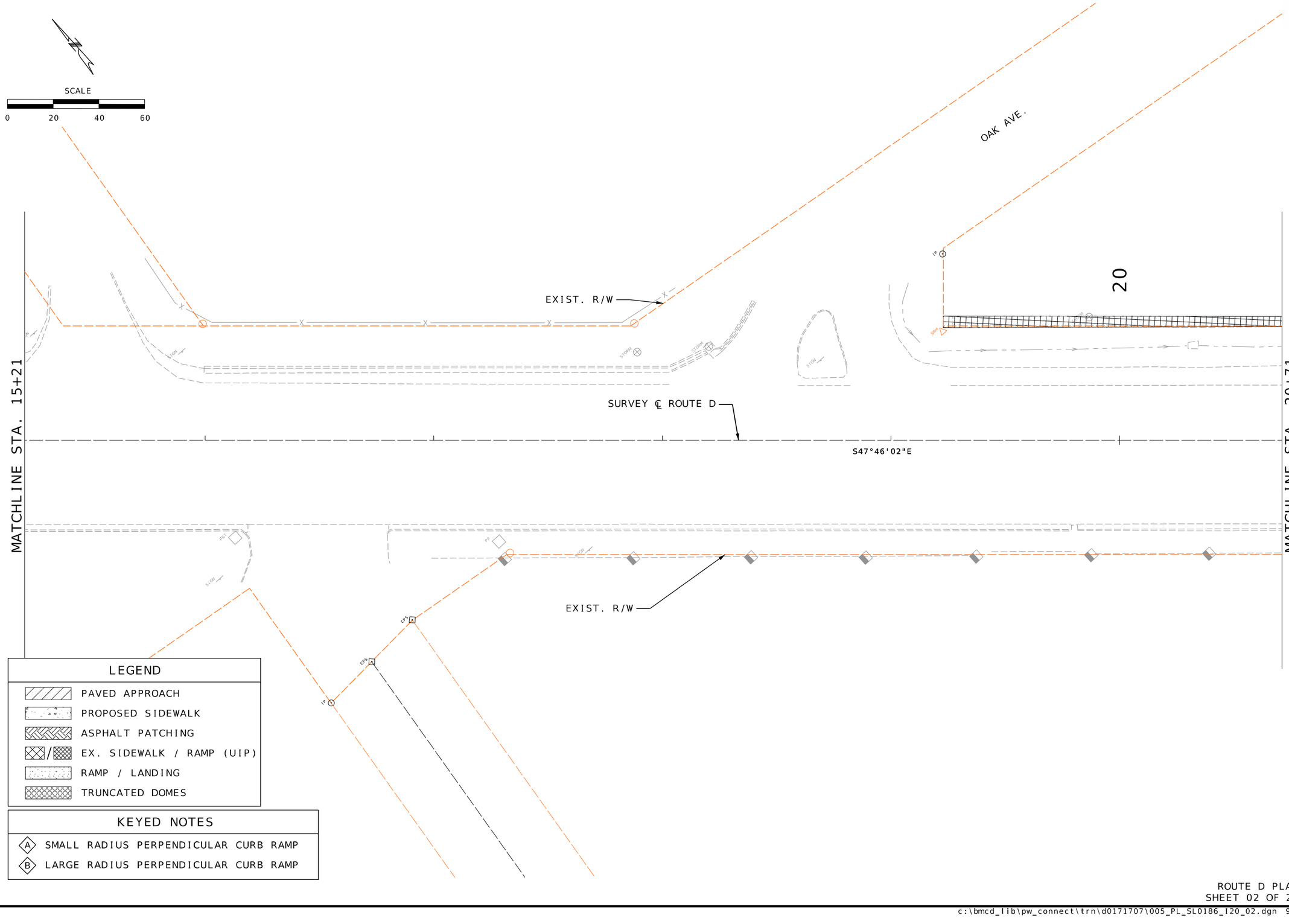
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SCALE

0 20 40 60



LEGEND

- PAVED APPROACH
- PROPOSED SIDEWALK
- ASPHALT PATCHING
- EX. SIDEWALK / RAMP (UIP)
- RAMP / LANDING
- TRUNCATED DOMES

KEYED NOTES

- (A) SMALL RADIUS PERPENDICULAR CURB RAMP
- (B) LARGE RADIUS PERPENDICULAR CURB RAMP

ROUTE D PLAN
SHEET 02 OF 28

ALLISON M. BRUNER
NUMBER
PE-2019005896
STATE OF MISSOURI
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED, AND DATED ELECTRONICALLY

Digitally signed by Allison Bruner
Date: 2025.12.19 09:38:35-06'00'

DATE PREPARED
12/17/2025

ROUTE	STATE
D	MO
DISTRICT	SHEET NO.
SL	5

COUNTY
ST. LOUIS

JOB NO.
JSL0186

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)

Burns & McDonnell Engineering Co., Inc.
425 South Woods Mill Road
Chesterfield, Missouri 63017
314-682-1500
Certificate of Authority
No. : 000165

BMcD Project No. 170361

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SCALE
0 20 40 60

QUICKTRIP
GOLDENBERG ASSOCIATES LLC
348/48
10793 PAGE AVE.

1

MATCHLINE STA. 20+71

EX. MANHOLE (UIP)
15M4-102S

EX. MANHOLE
(UIP)
15M4-114D

EX. MANHOLE
(UIP)
15M4-112D

EXIST. R/W

EX. INLET (UIP)
15M4-124D

EX. MANHOLE
(UIP)
15M4-123D

SURVEY ℄ ROUTE D

S47°46'02"E

PC STA 23+71.76 R2

EX. INLET (UIP)
15M4-125D

LUMEN (DND)

TIE INTO EX.
SIDEWALK

BEGIN PROJECT
STA. 24+60.70

TCE

25

EX. INLET (UIP)
15M4-127D

EX. TREE
(DND)

12-IN. CURB
(6")

+97.77
LT 65.91'

+11.72
LT 43.26'

TCE

A

R 20'

EX. LANDSCAPING
(DND)

TYPE 1 PARALLEL
CURB RAMP

MATCHLINE STA. 26+21

INLET IR
INSTALL PRECAST DROP INLET
(5'X3').INCLUDE (1) 5'X3'
GRATE AND BEARING PLATE.
MODOT MAINTAIN.
(SEE CULVERT SECTION SHEET)

EX. FES (R)

+02.21
RT 34.50'

4 FT X 4 FT
DRAINAGE FLUME

AT&T (DND)

EX. SIGN (UIP)

CONTRUCTION LIMITS

PROPOSED DITCH FLOW
LINE (SEE CULVERT
SECTION SHEET)

TYPE S CURB (6")

TYPE 3 PARALLEL
CURB RAMP

FILL EX. DITCH

EXIST. R/W

LINPAGE PL.

LEGEND

- PAVED APPROACH
- PROPOSED SIDEWALK
- ASPHALT PATCHING
- EX. SIDEWALK / RAMP (UIP)
- RAMP / LANDING
- TRUNCATED DOMES

KEYED NOTES

- (A) SMALL RADIUS PERPENDICULAR CURB RAMP
- (B) LARGE RADIUS PERPENDICULAR CURB RAMP

ROUTE D PLAN
SHEET 03 OF 28

STATE OF MISSOURI
ALLISON M. BRUNER
NUMBER
PE-2019005896
PROFESSIONAL ENGINEER

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12/17/2025

ROUTE	STATE
D	MO
DISTRICT	SHEET NO.
SL	6

COUNTY
ST. LOUIS

JOB NO.
JSL0186

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)

Burns & McDonnell Engineering Co., Inc.
425 South Woods Mill Road
Chesterfield, Missouri 63017
314-682-1500
Certificate of Authority
No. : 000165
BMcD Project No. 170361

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SCALE
0 20 40 60

QUICKTRIP
GOLDENBERG ASSOCIATES LLC
348/48
10793 PAGE AVE.

1

KEYED NOTES	
A	SMALL RADIUS PERPENDICULAR CURB RAMP
B	LARGE RADIUS PERPENDICULAR CURB RAMP

LEGEND
- PAVED APPROACH
- PROPOSED SIDEWALK
- ASPHALT PATCHING
- EX. SIDEWALK / RAMP (UIP)
- RAMP / LANDING
- TRUNCATED DOMES

PI 27+30.79
PC 23+71.76
PT 30+67.64
Δ 34°47'0.0" (LT)
D 4°59'54.3"
L 695.89' (ARC)
T 359.04'
R 1,146.28'

LINPAGE PL.
TIE INTO EX. SIDEWALK
TCE
R 11.5'
B
12-IN. CURB
MATCHLINE STA. 26+21
LUMEN (DND)
EX. MANHOLE (UIP) 15M4-069S
EX. MANHOLE (UIP) 15M4-097S
EX. INLET (UIP) 15M3-164D
EXIST. R/W
30
EX. MANHOLE (UIP) 15M3-103S
EX. MANHOLE (UIP) 15M4-070S
PT STA 30+67.64 R2
S82°33'02"E
MATCHLINE STA. 31+71
EX. MANHOLE (UIP) 15M4-027S
SURVEY ℄ ROUTE D
AT&T (DND)
EX. MANHOLE (UIP) 15M4-071S
EXIST. R/W
LINPAGE PL.
EX. MANHOLE (UIP) 15M4-026S
GALT INDUSTRIAL BLVD.
SALVATION ARMY

ROUTE D PLAN
SHEET 04 OF 28

ALLISON M. BRUNER NUMBER PE-2019005896
STATE OF MISSOURI PROFESSIONAL ENGINEER
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Date: 2025.12.19 09:38:35-06'00'

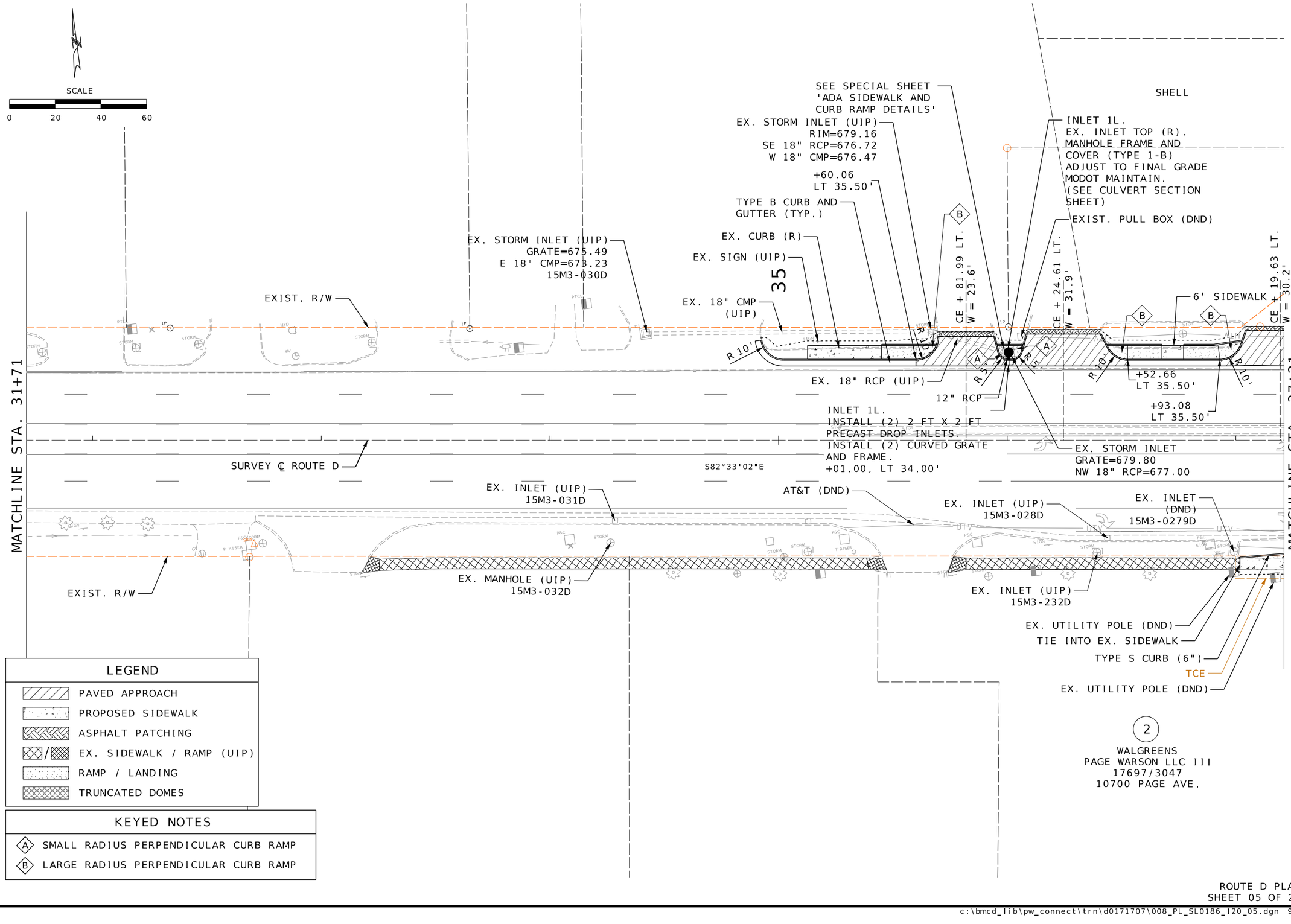
DATE PREPARED 12/17/2025
ROUTE D | STATE MO
DISTRICT SL | SHEET NO. 7
COUNTY ST. LOUIS
JOB NO. JSL0186
CONTRACT ID.
PROJECT NO.
BRIDGE NO.

DESCRIPTION | DATE

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

Burns & McDonnell Engineering Co., Inc.
425 South Woods Mill Road
Chesterfield, Missouri 63017
314-682-1500
Certificate of Authority
No. : 000165
BMcD Project No. 170361

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LEGEND

- PAVED APPROACH
- PROPOSED SIDEWALK
- ASPHALT PATCHING
- EX. SIDEWALK / RAMP (UIP)
- RAMP / LANDING
- TRUNCATED DOMES

KEYED NOTES

- (A) SMALL RADIUS PERPENDICULAR CURB RAMP
- (B) LARGE RADIUS PERPENDICULAR CURB RAMP

ROUTE D PLAN
SHEET 05 OF 28

ALLISON M. BRUNER NUMBER PE-2019005896
STATE OF MISSOURI PROFESSIONAL ENGINEER
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DATE PREPARED: 12/17/2025

ROUTE	STATE
D	MO
DISTRICT	SHEET NO.
SL	8

COUNTY: ST. LOUIS
JOB NO.: JSL0186
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)

Burns & McDonnell Engineering Co., Inc.
425 South Woods Mill Road
Chesterfield, Missouri 63017
314-682-1500
Certificate of Authority
No. : 000165
BMcD Project No. 170361

SCALE
0 20 40 60

LOCUST AVE.

IMO'S
2ND GEN PROPERTIES
2022092600560
10641 PAGE AVE.

3

SEEMA PROPERTIES LLC
13869/2055
10635 PAGE AVE.

4

IMO'S

WARSON RD.

EX. SIGN (DND)
EX. PAVEMENT (R)
EX. CURB (UIP)
6' SIDEWALK
+75.79
LT 58.01'
+55.15
LT 58.24'
+45.64
LT 36.35'
EX. MAST ARM (DND)
EX. MAST ARM (DND)
EX. MEDIAN (UIP)
+02.33
LT 45.87'
+02.27
LT 43.53'
+93.49
LT 44.95'
+96.25
LT 42.92'
+13.08
LT 39.09'
+02.11
LT 37.44'
+01.99
LT 32.84'
+81.61
LT 49.93'
+64.48
LT 47.35'
5' SIDEWALK CONNECTION
EX. SIDEWALK (R)
TCE
CE + 82.78 LT.
W = 37.8'
EX. CURB (DND)
+55.27
LT 41.50'
6' SIDEWALK
+28.56
LT 41.50'
+06.28
LT 68.69'
+06.02
LT 59.14'
6' SIDEWALK
TYPE B CURB AND GUTTER
EX. SIDEWALK (R)
TIE INTO EX. SIDEWALK
+10.27
LT 41.50'
EX. MANHOLE (UIP)
15M3-065S
SURVEY ℄ ROUTE D
EXIST. R/W
SAWCUT AND REMOVE MEDIAN TO PROVIDE 6' CURB RAMP CUT THROUGH
RAISED MEDIAN
(R & RECONSTRUCT)
18" TUBULAR MARKER
+78.97
RT 38.21'
+65.83
RT 40.68'
+83.96
RT 41.06'
+58.99
RT 41.58'
+96.85
RT 32.50'
+54.06
RT 32.50'
+26.83
RT 32.50'
9' X 4' DRAINAGE FLUME
EX. CURB (R)
S82°33'02"E
+56.64
RT 32.50'
TYPE S CURB
+60.23
RT 46.74'
+92.19
RT 44.03'
18" TUBULAR MARKER
+12.53
RT 59.43'
EX. MAST ARM (DND)
+08.45
RT 80.87'
+01.22
RT 57.74'
+15.12
RT 65.66'
18" TUBULAR MARKER
DOUBLE DOWN ARROW SIGN
+71.71
RT 54.87'
TYPE 1 PARALLEL CURB RAMP
EX. CABINET (UIP)
TIE INTO EX. SIDEWALK
5' SIDEWALK
EX. INLET (UIP)
15M3-036D
+50.33
RT 48.96'
EX. CABINET (DND)
6' SIDEWALK
EX. MAST ARM (DND)
EXIST. R/W
EX. CURB (R)
EX. INLET (UIP)
15M3-035D
9' SIDEWALK
CE + 89.98 RT.
W = 51.2'
TYPE B CURB AND GUTTER
EX. MANHOLE (UIP)
15M3-046S
EX. INLET (UIP)
15M3-033D
8.5' SIDEWALK
EX. INLET (UIP)
15M3-034D
EX. BUS STOP SIGN (UIP)
R 10'
R 39.5'
R 50'
R 40'

MATCHLINE STA. 37+21

MATCHLINE STA. 42+71

2

WALGREENS
PAGE WARSON LLC III
17697/3047
10700 PAGE AVE.

LEGEND

- PAVED APPROACH
- PROPOSED SIDEWALK
- ASPHALT PATCHING
- EX. SIDEWALK / RAMP (UIP)
- RAMP / LANDING
- TRUNCATED DOMES

KEYED NOTES

- (A) SMALL RADIUS PERPENDICULAR CURB RAMP
- (B) LARGE RADIUS PERPENDICULAR CURB RAMP

NOTE: SEE UTILITY SHEET 09 FOR UTILITY NOTES.

EXIST. R/W

ROUTE D PLAN
SHEET 06 OF 28

STATE OF MISSOURI
ALLISON M. BRUNER
NUMBER PE-2019005896
PROFESSIONAL ENGINEER

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Digitally signed by Allison Bruner
Date: 2025.12.19 09:38:35-06'00'

DATE PREPARED
12/17/2025

ROUTE	STATE
D	MO
DISTRICT	SHEET NO.
SL	9

COUNTY
ST. LOUIS

JOB NO.
JSL0186

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)

MoDOT

Burns & McDonnell Engineering Co., Inc.
425 South Woods Mill Road
Chesterfield, Missouri 63017
314-682-1500

Certificate of Authority
No. : 000165

BMcD Project No. 170361

BURNS McDONNELL

SCALE
0 20 40 60

KFC

POPEYES

ENTERPRISE
WHITE PAGE 1 LLC,
A MISSOURI LIMITED
LIABILITY COMPANY
22560/17
10501 PAGE AVE.

5

MATCHLINE STA. 42+71

MATCHLINE STA. 48+21

EX. MANHOLE (UIP) 15M3-066S

EXIST. R/W

EX. INLET (UIP) 15M3-041D

EX. INLET (UIP) 15M3-040D

EX. MANHOLE (UIP) 15M3-070S

EX. MANHOLE (UIP) 15M3-037D

EX. MANHOLE (UIP) 15M3-044D NOT FOUND

EX. SIGNS (DND)

5' SIDEWALK

+07.89 LT 55.66'

TIE INTO EX. SIDEWALK

TCE

EX. SIDEWALK (R)

6' SIDEWALK

EX. CURB (R)

CE + 12.56 LT.
W = 29.8'

R 7'

+40.24 LT 33.74'

+87.73 LT 33.99'

R 10'

TYPE B CURB AND GUTTER

SURVEY ℄ ROUTE D

S82°33'02"E

+09.89 RT 32.50'

R 10'

EX. MANHOLE (UIP) 15M3-044S

+84.28 RT 32.50'

R 10'

+35.79 RT 32.50'

EX. NO PARKING SIGN (R)

LUMEN (DND)

+96.20 RT 32.50'

+56.20 RT 32.50'

R 10'

R 10'

CE + 83.43 RT.
W = 31.8'

8.5' SIDEWALK

EX. GAS VALVE (UIP)

EX. POWER POLE (DND)

TYPE B CURB AND GUTTER

EX. POWER POLE (DND)

EX. INLET (ATG)

CE + 10.77 RT.
W = 33'

EXIST. R/W

EX. POWER POLE (DND)

EX. CURB (R)

8.5' SIDEWALK

EX. POWER POLE (DND)

CE + 76.23 RT.
W = 20'

EX. COMMUNICATION MANHOLE (ATG)

9' SIDEWALK

LEGEND

- PAVED APPROACH
- PROPOSED SIDEWALK
- ASPHALT PATCHING
- EX. SIDEWALK / RAMP (UIP)
- RAMP / LANDING
- TRUNCATED DOMES

KEYED NOTES

- (A) SMALL RADIUS PERPENDICULAR CURB RAMP
- (B) LARGE RADIUS PERPENDICULAR CURB RAMP

ROUTE D PLAN
SHEET 07 OF 28

ALLISON M. BRUNER
NUMBER
PE-2019005896
STATE OF MISSOURI
PROFESSIONAL ENGINEER

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12/17/2025

ROUTE	STATE
D	MO
DISTRICT	SHEET NO.
SL	10

COUNTY
ST. LOUIS

JOB NO.
JSL0186

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)

Burns & McDonnell Engineering Co., Inc.
425 South Woods Mill Road
Chesterfield, Missouri 63017
314-682-1500
Certificate of Authority
No. : 000165
BMcD Project No. 170361

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SCALE
0 20 40 60

ENTERPRISE
WHITE PAGE 1 LLC,
A MISSOURI LIMITED
LIABILITY COMPANY
22560/17
10501 PAGE AVE.

5

TCE

EX. SIDEWALK (R)
EX. CURB (R)
EX. SIGN (DND)
+45.35
LT 34.30'
EX. INLET (ATG)
15M3-081D
CE + 72.83 LT.
W = 34.3'
EX. MANHOLE (ATG)
15M3-076D
EX. SIDEWALK (R)
EX. CURB (R)
6' SIDEWALK
EX. MANHOLE (UIP)
15M3-071S
EX. MAST ARM (DND)
EX. INLET (UIP)
15M3-075D
ASHBY RD.
EX. MANHOLE (UIP)
15M3-082D
EX. MANHOLE (UIP)
15M3-088S
EX. INLET (UIP)
15M3-077D
STEAK N SHAKE
EXIST. R/W
EX. SIGN (DND)
EX. MANHOLE (UIP)
15M3-087S
EX. LIGHT (DND)
EX. PAVEMENT (R)
TYPE S CURB
CE + 28.69 LT.
W = 29.6'
EX. PAVEMENT (R)
6' SIDEWALK
+83.55
LT 34.00'
CE + 8.26 LT.
W = 29.5'
EX. PAVEMENT (R)
6' SIDEWALK
+57.62
LT 34.00'

MATCHLINE STA. 48+21

+37.64
LT 34.26'
+00.48
LT 34.59'
EX. SIGN (DND)
TYPE B CURB AND GUTTER (TYP)
+18.54
LT 33.91'
EX. DELINEATOR POST (DND)
EX. PED. POLE(R)
+24.34
LT 33.79
5.8' SIDEWALK
6' SIDEWALK
+03.90
LT 34.00'
+53.46
LT 34.00'
+32.97
LT 34.00'
SURVEY ℄ ROUTE D

MATCHLINE STA. 53+71

EX. MANHOLE (UIP)
15M3-045S
+47.53 RT 32.50'
+09.48 RT 32.50'
S82°33'02"E
EX. INLET (UIP)
15M3-104D
+15.26
RT 30.69
EX. PAVEMENT (R).
9-IN. CONCRETE BASE
+31.28
RT 31.14'
EX. MEDIAN (R)
+30.80
RT 48.42'
+18.70
RT 52.94'
EX. MANHOLE (UIP)
15M3-033S
EX. MAST ARM (DND)
+37.42
RT 34.90'
EX. CURB (UIP)
6' SIDEWALK
EXIST. R/W
EX. SIGN (DND)
CE + 74.17 RT
W = 43.4'
9' SIDEWALK
EX. CURB (R)
EX. RIGHT TURN LANE (R)
EX. CURB INLET (R & REPLACE TOP)
EX. MAST ARM (DND)
EX. MANHOLE (UIP)
15M3-018D
EX. 'BEGIN RIGHT TURN LANE' SIGN (R)
EX. 'ST. LOUIS COUNTY ANIMAL CARE & CONTROL' SIGN (REMOUNT AT TOP OF POST)
4' MIN. ADA PATH IN FRONT OF MAST ARM FOUNDATION
TYPE S CURB
+95.91
RT 95.12'
EX. CURB (R)
REMOVE AND REPLACE DAMAGED SIDEWALK PANEL
PSE
TIE INTO EX. SIDEWALK
5' SIDEWALK
EX. SIGN (DND)
CE + 98.27 RT
W = 48.8'
EXIST. R/W
EX. SIGN (DND)
ASHBY RD.

6
ANTHONY J VENTI JR &
MARGARET A VENTI TRUST
2024012200199
10460 PAGE AVE.

LEGEND
- PAVED APPROACH
- PROPOSED SIDEWALK
- ASPHALT PATCHING
- EX. SIDEWALK / RAMP (UIP)
- RAMP / LANDING
- TRUNCATED DOMES

KEYED NOTES
- (A) SMALL RADIUS PERPENDICULAR CURB RAMP
- (B) LARGE RADIUS PERPENDICULAR CURB RAMP

NOTE: SEE UTILITY SHEET 08 FOR UTILITY NOTES.

ROUTE D PLAN
SHEET 08 OF 28

ALLISON M. BRUNER
NUMBER PE-2019005896
STATE OF MISSOURI
PROFESSIONAL ENGINEER
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12/17/2025

ROUTE	STATE
D	MO
DISTRICT	SHEET NO.
SL	11

COUNTY
ST. LOUIS
JOB NO.
JSL0186
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)

Burns & McDonnell Engineering Co., Inc.
425 South Woods Mill Road
Chesterfield, Missouri 63017
314-682-1500
Certificate of Authority
No. : 000165
BMcD Project No. 170361

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SCALE

0 20 40 60

FAMILY DOLLAR/SUBWAY

MORVEN AVE.

MCDONALD'S

55

MATCHLINE STA. 53+71

MATCHLINE STA. 59+21

TYPE B CURB AND GUTTER

EX. MANHOLE (UIP) 15M3-077S

EXIST. R/W

EX. INLET (UIP) 15M3-121D

EX. INLET (UIP) 15M3-122D

EX. INLET (UIP) 15M3-123D

EX. INLET (UIP) 15M3-014D

EX. INLET (UIP) 15M3-151D

EX. INLET (UIP) 15M3-149D

SURVEY ℄ ROUTE D

S82°33'02"E

EX. MANHOLE (UIP) 15M3-034S

EXIST. R/W

EX. INLET (UIP) 15M3-015D

EX. INLET (UIP) 15M3-180D

EX. MANHOLE (UIP) 15M3-035S

TACO BELL

SONIC

LEGEND

- PAVED APPROACH
- PROPOSED SIDEWALK
- ASPHALT PATCHING
- EX. SIDEWALK / RAMP (UIP)
- RAMP / LANDING
- TRUNCATED DOMES

KEYED NOTES

- (A) SMALL RADIUS PERPENDICULAR CURB RAMP
- (B) LARGE RADIUS PERPENDICULAR CURB RAMP

ROUTE D PLAN
SHEET 09 OF 28

STATE OF MISSOURI
ALLISON M. BRUNER
NUMBER PE-2019005896
PROFESSIONAL ENGINEER

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Date: 2025.12.19 09:38:35-06'00'

DATE PREPARED: 12/17/2025

ROUTE	STATE
D	MO
DISTRICT	SHEET NO.
SL	12

COUNTY: ST. LOUIS

JOB NO.: JSL0186

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)

Burns & McDonnell Engineering Co., Inc.
425 South Woods Mill Road
Chesterfield, Missouri 63017
314-682-1500
Certificate of Authority No. : 000165

BMcD Project No. 170361

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NO PROPOSED
IMPROVEMENTS THIS SHEET

SCALE
0 20 40 60

60

KORANDO AVE.

EXIST. R/W

POT STA 59+39.28 R2

MATCHLINE STA. 59+21

SURVEY ℄ ROUTE D

S82°09'02"E

MATCHLINE STA. 64+71

FAIRVIEW AVE.

RALLY'S

EXIST. R/W

LEGEND

- PAVED APPROACH
- PROPOSED SIDEWALK
- ASPHALT PATCHING
- EX. SIDEWALK / RAMP (UIP)
- RAMP / LANDING
- TRUNCATED DOMES

KEYED NOTES

- (A) SMALL RADIUS PERPENDICULAR CURB RAMP
- (B) LARGE RADIUS PERPENDICULAR CURB RAMP

ROUTE D PLAN
SHEET 10 OF 28

ALLISON M. BRUNER
NUMBER
PE-2019005896
PROFESSIONAL ENGINEER
STATE OF MISSOURI

THIS SHEET HAS BEEN SIGNED, SEALED, AND DATED ELECTRONICALLY

Digitally signed by Allison Bruner
Date: 2025.12.19 09:38:35-06'00'

DATE PREPARED
12/17/2025

ROUTE	STATE
D	MO
DISTRICT	SHEET NO.
SL	13

COUNTY
ST. LOUIS

JOB NO.
JSL0186

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)

Burns & McDonnell Engineering Co., Inc.
425 South Woods Mill Road
Chesterfield, Missouri 63017
314-682-1500
Certificate of Authority
No. : 000165
BMcD Project No. 170361

c:\bmcd_lib\pw_connect\trn\d0171707\013_PL_SL0186_I20_10.dgn 9:22:58 AM 12/17/2025

SCALE
0 20 40 60

WAFFLE HOUSE

UCEYLE AVE.

OCONNELL AVE.

EX. INLET (UIP)
15M3-261D

EXIST. R/W

EX. INLET (UIP)
15M3-262D

EX. MANHOLE (UIP)
15L4-233D

EX. INLET (UIP)
15L4-023D

EX. MANHOLE (UIP)
15L4-076S

EX. INLET (UIP)
15L4-158D

EX. INLET (UIP)
15L4-155D

EX. INLET (UIP)
15L4-180D

EX. INLET
(UIP)
15L4-161D

LUMEN MANHOLE
(DND)

EX. INLET (UIP)
15L4-234D

POWER SERVICE POLE TO BE R&RELOC BY
OTHERS. SEE SIGNAL PLANS FOR MORE
INFORMATION ON THE POWER SUPPLY.

KEEP RIGHT SIGN

2 FT. CONCRETE
MEDIAN STRIP (6")

18" TUBULAR MARKER

ONE WAY SIGN

AT&T (DND)

EX. CURB (R)
+53.77
RT 42.20'

+42.13
RT 36.00'

+89.51
RT 36.00'

EX. INLET (UIP)
15L4-026D

EX. INLET (UIP)
15L4-027D

EX. INLET (UIP)
15M3-132D

EX. INLET (UIP)
15M3-008D

EXIST. R/W

BACH RD.

EX. BUS STOP
SIGN (UIP)

4' MIN. ADA PATH

EX. POLES (UIP)

+35.23
RT 50.00'

+35.28
RT 53.00'

EX. AT&T
MANHOLE (ATG)

CE + 66.04 RT
W = 28.0'

TCE

6' SIDEWALK

7

FIRE CHICKEN
BAIKS PAGE LLC
2022040800693
10200 PAGE AVE.

DUNKIN'

SURVEY ℄ ROUTE D

S82°09'02"E

MATCHLINE STA. 64+71

MATCHLINE STA. 70+06

65

70

R 10

R 10

R 3

R 5

LEGEND

- PAVED APPROACH
- PROPOSED SIDEWALK
- ASPHALT PATCHING
- EX. SIDEWALK / RAMP (UIP)
- RAMP / LANDING
- TRUNCATED DOMES

KEYED NOTES

- (A) SMALL RADIUS PERPENDICULAR CURB RAMP
- (B) LARGE RADIUS PERPENDICULAR CURB RAMP

ROUTE D PLAN
SHEET 11 OF 28

STATE OF MISSOURI
ALLISON M. BRUNER
NUMBER PE-2019005896
PROFESSIONAL ENGINEER

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DATE PREPARED
12/17/2025

ROUTE	STATE
D	MO
DISTRICT	SHEET NO.
SL	14

COUNTY
ST. LOUIS

JOB NO.
JSL0186

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)

Burns & McDonnell Engineering Co., Inc.
425 South Woods Mill Road
Chesterfield, Missouri 63017
314-682-1500
Certificate of Authority
No.: 000165
BMcD Project No. 170361

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SCALE
0 20 40 60

MATCHLINE STA. 70+06

6 IN. CONCRETE MEDIAN STRIP
KEEP RIGHT SIGN
18" TUBULAR MARKER
EX. SIGNAL CABINET (R)
EX. MANHOLE (UIP) 15L4-156D
TYPE 3 PARALLEL CURB RAMP
EX. SIGNAL POLE (R)
DITCH FLOW LINE
EX. STORM MANHOLE (ATG) 15L4-075S MSD INSPECTION REQUIRED
EX. FLOW LINE (UIP)
EX. INLET (UIP) 15L4-181D
CE + 07.65 LT. W = 34.6'
EX. LIGHT (UIP)
RELOCATE STOP SIGN
EX. INLET (UIP) 15L4-0273D
DYER AVE.
CE + 46.38 LT. W = 40.7'
EX. SANITARY MANHOLE (ATG) 15L4-074S
EX. INLET (DND) 15L4-0274D
EXIST. R/W
EX. INLET (UIP) 15L4-0276D
EX. BUS STOP SIGN (RELOCATE)
6' SIDEWALK (TYP)
TYPE B CURB AND GUTTER
4.5' ADA PATH
EX. POWER POLE (UIP)
CE + 39.7 LT. W = 50.5'
TIE INTO EX. SIDEWALK
+62.15 LT 61.15'
TYPE 2 PARALLEL CURB RAMP
EX. CURB INLET (UIP) 15L4-016D
EX. STOP SIGN (RELOCATE)
RELOCATE LIGHT (BY OTHERS)
NORTHFIELD DR.
75

+37.27 LT 32.51'
+26.47 RT 36.25'
+30.24 RT 44.27'
+79.37 LT 32.50'
+37.76 LT 32.50'
+05.12 LT 32.50'
KEEP RIGHT SIGN
ONE WAY SIGN
18" TUBULAR MARKER
6 IN. CONCRETE MEDIAN STRIP
+88.26 LT 32.50'
6' SIDEWALK
+98.14 LT 32.50'
POT STA 74+23.45 R2
+81.68 LT 33.52'
SURVEY ℄ ROUTE D

BLENDED TRANSITION CURB RAMP
9-IN. CONCRETE BASE
EX. CURB (R)
EX. SIDEWALK (R)
EX. STORM INLET (UIP) 15L4-028D
EX. CURB (UIP)
EX. 12" RCP (UIP)
EX. 12" RCP (UIP)
FL=658.44 15L4-039D
EX. STORM INLET & MANHOLE (UIP)
EX. SIGNAL POLE (R)
5' SIDEWALK
PHE
+47.53 RT 51.59'
6.5' SIDEWALK
PSE
+96.48 RT 46.71'
TCE
EX. STORM INLET (UIP) 15L4-0279D
STORM INLET RIM=661.22 SE 12" CMP=658.17 NW 12" RCP=657.32 15L4-040D
EXIST. R/W
JODY INDUSTRIAL CT.

7
FIRE CHICKEN BAIKS PAGE LLC 2022040800693 10200 PAGE AVE.
PAGE INDUSTRIAL BLVD.
8
SCOOTER'S COFFEE LIRON AVNERI 24588/5108 10190 PAGE AVE.

MATCHLINE STA. 75+71

NOTE: SEE UTILITY SHEET 12 FOR UTILITY NOTES.

LEGEND
- PAVED APPROACH
- PROPOSED SIDEWALK
- ASPHALT PATCHING
- EX. SIDEWALK / RAMP (UIP)
- RAMP / LANDING
- TRUNCATED DOMES

KEYED NOTES
- (A) SMALL RADIUS PERPENDICULAR CURB RAMP
- (B) LARGE RADIUS PERPENDICULAR CURB RAMP

ROUTE D PLAN
SHEET 12 OF 28

STATE OF MISSOURI
ALLISON M. BRUNER
NUMBER PE-2019005896
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED, AND DATED ELECTRONICALLY
Digitally signed by Allison Bruner
Date: 2025.12.19 09:38:36-06'00'

DATE PREPARED 12/17/2025
ROUTE D | STATE MO
DISTRICT SL | SHEET NO. 15
COUNTY ST. LOUIS
JOB NO. JSL0186
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)

Burns & McDonnell Engineering Co., Inc.
425 South Woods Mill Road
Chesterfield, Missouri 63017
314-682-1500
Certificate of Authority No. : 000165
BMcD Project No. 170361

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NO PROPOSED
IMPROVEMENTS THIS SHEET

SCALE
0 20 40 60

EX. INLET (UIP)
15L4-017D

EX. INLET (UIP)
15L4-020D

EX. MANHOLE (UIP)
15L4-018D

EX. MANHOLE (UIP)
15L4-068S

EXIST. R/W

EX. INLET (UIP)
15L4-242D

EX. INLET (UIP)
15L4-243D

EX. MANHOLE
(UIP)
15L4-067S

80

SURVEY ℄ ROUTE D

S81°09'02"E

S81°09'02"E

MATCHLINE STA. 75+71

MATCHLINE STA. 81+21

EX. INLET (UIP)
15L4-021D

EXIST. R/W

ENTERPRISE

LOTSIE BLVD.

LEGEND

- PAVED APPROACH
- PROPOSED SIDEWALK
- ASPHALT PATCHING
- EX. SIDEWALK / RAMP (UIP)
- RAMP / LANDING
- TRUNCATED DOMES

KEYED NOTES

- (A) SMALL RADIUS PERPENDICULAR CURB RAMP
- (B) LARGE RADIUS PERPENDICULAR CURB RAMP

ROUTE D PLAN
SHEET 13 OF 28

STATE OF MISSOURI
ALLISON M. BRUNER
NUMBER PE-2019005896
PROFESSIONAL ENGINEER

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12/17/2025

ROUTE	STATE
D	MO
DISTRICT	SHEET NO.
SL	16

COUNTY
ST. LOUIS

JOB NO.
JSL0186

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)

Burns & McDonnell Engineering Co., Inc.
425 South Woods Mill Road
Chesterfield, Missouri 63017
314-682-1500
Certificate of Authority
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BMcD Project No. 170361

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NO PROPOSED
IMPROVEMENTS THIS SHEET

SCALE
0 20 40 60

SIMS AVE.

EX. MANHOLE (UIP)
15L4-066S

EXIST. R/W

PC STA 82+27.70 R2

PT STA 84+89.53 R2

SURVEY ℄ ROUTE D

S65°53'02"E

MATCHLINE STA. 81+21

MATCHLINE STA. 86+71

EXIST. R/W

PI 83+59.40
PC 82+27.70
PT 84+89.53
Δ 15°16'0.0" (RT)
D 5°49'50.9"
L 261.83' (ARC)
T 131.69'
R 982.64'

LEGEND

- PAVED APPROACH
- PROPOSED SIDEWALK
- ASPHALT PATCHING
- EX. SIDEWALK / RAMP (UIP)
- RAMP / LANDING
- TRUNCATED DOMES

KEYED NOTES

- (A) SMALL RADIUS PERPENDICULAR CURB RAMP
- (B) LARGE RADIUS PERPENDICULAR CURB RAMP

ROUTE D PLAN
SHEET 14 OF 28

ALLISON M. BRUNER
NUMBER PE-2019005896
STATE OF MISSOURI
PROFESSIONAL ENGINEER

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DATE PREPARED
12/17/2025

ROUTE	STATE
D	MO
DISTRICT	SHEET NO.
SL	17

COUNTY
ST. LOUIS

JOB NO.
JSL0186

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)

Burns & McDonnell Engineering Co., Inc.
425 South Woods Mill Road
Chesterfield, Missouri 63017
314-682-1500
Certificate of Authority
No. : 000165
BMcD Project No. 170361

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SCALE
0 20 40 60

NO PROPOSED
IMPROVEMENTS THIS SHEET

90

MATCHLINE STA. 86+71

MATCHLINE STA. 92+21

EXIST. R/W

EX. INLET (UIP)
15L4-035D

SURVEY ℄ ROUTE D

S65°53'02"E

EX. INLET (UIP)
15L1-154D

EXIST. R/W

LEGEND

- PAVED APPROACH
- PROPOSED SIDEWALK
- ASPHALT PATCHING
- EX. SIDEWALK / RAMP (UIP)
- RAMP / LANDING
- TRUNCATED DOMES

KEYED NOTES

- (A) SMALL RADIUS PERPENDICULAR CURB RAMP
- (B) LARGE RADIUS PERPENDICULAR CURB RAMP

ROUTE D PLAN
SHEET 15 OF 28

STATE OF MISSOURI
ALLISON M. BRUNER
NUMBER
PE-2019005896
PROFESSIONAL ENGINEER

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DATE PREPARED
12/17/2025

ROUTE	STATE
D	MO

DISTRICT	SHEET NO.
SL	18

COUNTY
ST. LOUIS

JOB NO.
JSL0186

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)

Burns & McDonnell Engineering Co., Inc.

425 South Woods Mill Road
Chesterfield, Missouri 63017
314-682-1500

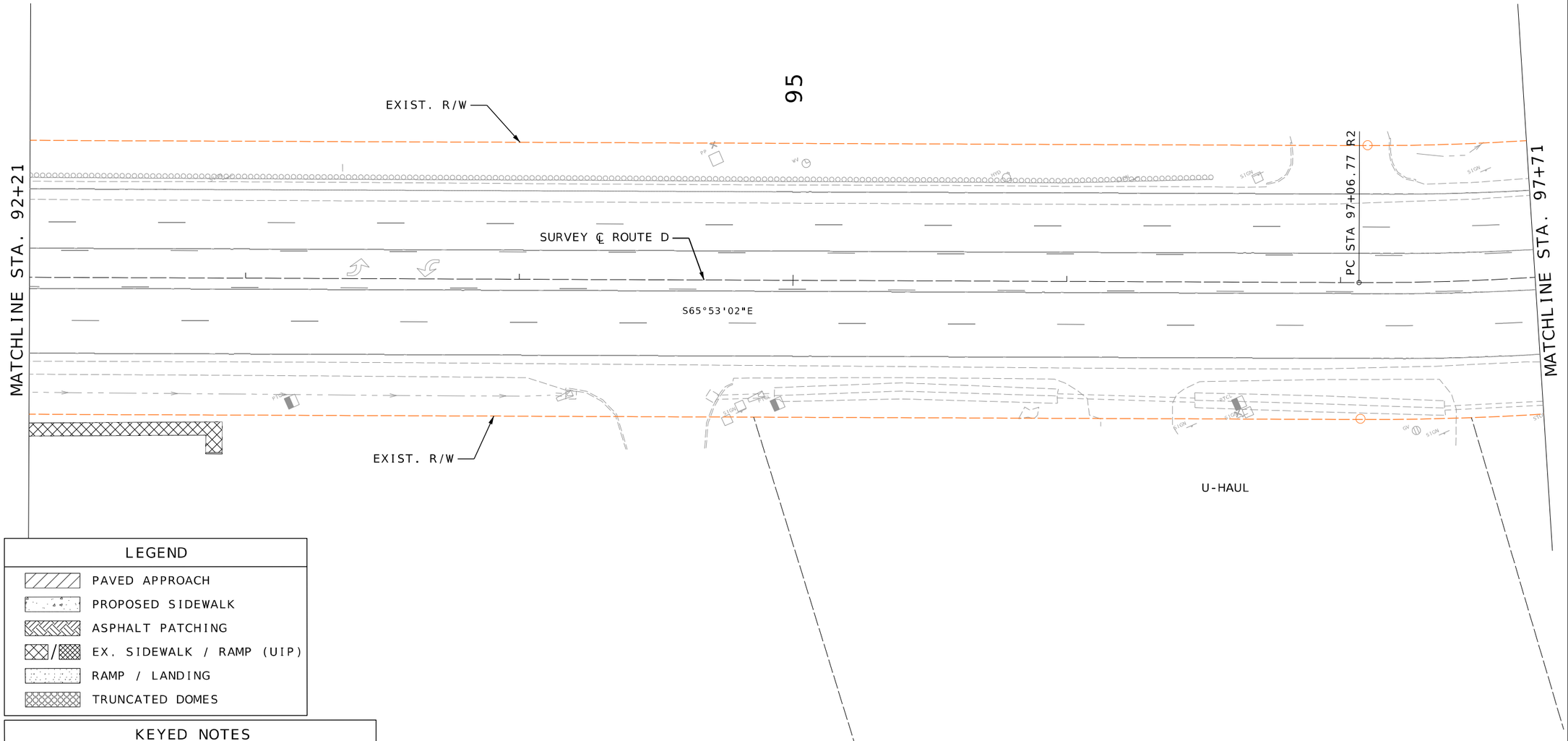
Certificate of Authority
No. : 000165

BMcD Project No. 170361

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NO PROPOSED
IMPROVEMENTS THIS SHEET

SCALE
0 20 40 60



LEGEND

- PAVED APPROACH
- PROPOSED SIDEWALK
- ASPHALT PATCHING
- EX. SIDEWALK / RAMP (UIP)
- RAMP / LANDING
- TRUNCATED DOMES

KEYED NOTES

- (A) SMALL RADIUS PERPENDICULAR CURB RAMP
- (B) LARGE RADIUS PERPENDICULAR CURB RAMP

ROUTE D PLAN
SHEET 16 OF 28

STATE OF MISSOURI
ALLISON M. BRUNER
NUMBER PE-2019005896
PROFESSIONAL ENGINEER

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DATE PREPARED
12/17/2025

ROUTE	STATE
D	MO
DISTRICT	SHEET NO.
SL	19

COUNTY
ST. LOUIS

JOB NO.
JSL0186

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)

Burns & McDonnell Engineering Co., Inc.
425 South Woods Mill Road
Chesterfield, Missouri 63017
314-682-1500
Certificate of Authority
No. : 000165
BMcD Project No. 170361

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PI 98+22.10
PC 97+06.77
PT 99+36.32
Δ 13°46'0.0" (LT)
D 5°59'50.1"
L 229.55' (ARC)
T 115.33'
R 955.37'

MATCHLINE STA. 97+71

6' SIDEWALK
EXIST. RAMP (R)
EXIST. SIGN (DND)
EXIST. R/W
TIE INTO EX. SIDEWALK
R2
PT STA 99+36
SURVEY ℄ ROUTE D
MODOT FIBER (UIP)
EXIST. R/W
EX. INLET (UIP) 16L1-216D
EX. INLET (UIP) 16L1-0446D
EX. INLET (UIP) 16L1-0447D
TYPE B CURB AND GUTTER (TYP)
EXIST. EASEMENT
AT&T (R&RELOC BY OTHERS)
TYPE 1 PARALLEL CURB RAMP
PROP. R/W
EX. MAST ARM (UIP)
EX. PULLBOX (UIP)
EX. CABINET (UIP)
EX. CURB (R)
EX. SIGN (DND)
5' SIDEWALK

100

BP GAS STATION
NATIONAL RETAIL PROPERTIES LP
17741/1349
9791 PAGE AVE.

10

EXIST. SIGNAL POLE (UIP)
EXIST. LUMEN MANHOLE (DND)
EXIST. PED. POLE (UIP)
EX. SIDEWALK RAMP (REMOVE AND RECONSTRUCT 6' SIDEWALK ON EX. ROW)
TCE
+93.09 LT 56.00'
+93.09 LT 50.00'
+90.05 LT 46.80'
EX. INLET (UIP) 16L1-0401D
TIE INTO EX. SIDEWALK
R 20'
B
+97.39 LT 40.76'
EX. INLET (UIP) 16L1-139D
EX. INLET (UIP) 16L1-214D
S79°39'02"E
FIBER (DND)
+72.50 RT 53.81'
+78.56 RT 60.68'
R 2.5'
R 40'
6' RAMP
+82.28 RT 78.24'
DIELMAN RD.
+83.94 RT 116.47'
EXIST. MODOT MANHOLE (UIP)
EXIST. EASEMENT
AT&T (UIP)
5' SIDEWALK
SEE MODOT PROJECT JSL0027 FOR OVERHEAD AND UTILITY POLE ADJUSTMENTS
+87.10 RT 178.78'
5' SIDEWALK
+51.06 RT 196.12'
+87.64 RT 199.39'

MATCHLINE STA. 103+21

9
AF ALAM LLC
19622/510
9800 PAGE AVE.

LEGEND

- PAVED APPROACH
- PROPOSED SIDEWALK
- ASPHALT PATCHING
- EX. SIDEWALK / RAMP (UIP)
- RAMP / LANDING
- TRUNCATED DOMES

KEYED NOTES

- A SMALL RADIUS PERPENDICULAR CURB RAMP
- B LARGE RADIUS PERPENDICULAR CURB RAMP

SCALE
0 20 40 60

ROUTE D PLAN
SHEET 17 OF 28

STATE OF MISSOURI
ALLISON M. BRUNER
NUMBER PE-2019005896
PROFESSIONAL ENGINEER
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DATE PREPARED 12/17/2025
ROUTE D
STATE MO
DISTRICT SL
SHEET NO. 20
COUNTY ST. LOUIS
JOB NO. JSL0186
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)

Burns & McDonnell Engineering Co., Inc.
425 South Woods Mill Road
Chesterfield, Missouri 63017
314-682-1500
Certificate of Authority No. : 000165
BMcD Project No. 170361

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SCALE
0 20 40 60

BP GAS STATION
NATIONAL RETAIL
PROPERTIES LP
17741/1349
9791 PAGE AVE.
10

BC3 LLC
21608/3085
9677 PAGE AVE.
21

AYCHIEN SHEE
REVOCABLE LIVING
TRUST
20695/1182
9707 PAGE AVE.
22

ALAA ALQAZAHA
2023081400039
9605 PAGE AVE.
23

105

EX. MANHOLE (DND)
15L1-0403D
TCE
EX. WATER VALVE (DND)
EX. SIDEWALK RAMP (REMOVE AND RECONSTRUCT ON EX. ROW)
+81.94
LT 56.00'
+81.94
LT 50.00'
TIE INTO EX. SIDEWALK
CE + 32.95 LT.
W = 37.1'
R 20'
+68.26
LT 41.27'
EX. GAS VALVE (ATG)
TIE INTO EX. SIDEWALK
TCE
CE + 81.56 LT.
W = 34.1'
+03.31
LT 55.00'
+03.31
LT 50.00'
EX. BOLLARD (R)
EX. HYDRANT (DND)
EX. WATER VALVE (ATG)
CE + 64.28 LT.
W = 77.5'
LUMEN (DND)
EXIST. R/W
+11.78
LT 33.50'
TYPE B CURB AND GUTTER (TYP.)
+39.94
LT 33.50'
6' SIDEWALK (TYP)
CE + 59.94 LT.
W = 20.0'
+02.12
LT 33.50'
+79.94
LT 33.50'
CE + 22.12 LT.
W = 20.0'
+62.02
LT 50.00'
+54.00
LT 33.50'
+42.12
LT 33.50'
EXIST. GAS VALVE (ATG)
+62.02
LT 55.00'
CE + 81.93 LT.
W = 36.5'
TCE
BEGIN 12-IN REINFORCED CURB
+99.93
LT 48.00'
+01.93
LT 55.00'
EX. WOODEN RETAINING WALL (R-54 L.F.)
END 12-IN REINFORCED CURB
+46.13
LT 39.50'
+10.19
LT 33.50'
CE + 54.56 LT.
W = 15.8'
+36.76
LT 33.50'
12-IN REINFORCED CURB

MATCHLINE STA. 103+21
MATCHLINE STA. 108+71

S79°39'02"E
S79°09'02"E
SURVEY ℄ ROUTE D

EQUATION:
POT STA 107+72.95 = STA 107+73.15 BK

EXIST. EASEMENT
EXIST. R/W

AUTOZONE

LEGEND
- PAVED APPROACH
- PROPOSED SIDEWALK
- ASPHALT PATCHING
- EX. SIDEWALK / RAMP (UIP)
- RAMP / LANDING
- TRUNCATED DOMES

KEYED NOTES
- (A) SMALL RADIUS PERPENDICULAR CURB RAMP
- (B) LARGE RADIUS PERPENDICULAR CURB RAMP

ROUTE D PLAN
SHEET 18 OF 28

STATE OF MISSOURI
ALLISON M. BRUNER
NUMBER PE-2019005896
PROFESSIONAL ENGINEER
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Date: 2025.12.19 09:38:36-06'00'

DATE PREPARED
12/17/2025

ROUTE	STATE
D	MO
DISTRICT	SHEET NO.
SL	21

COUNTY
ST. LOUIS
JOB NO.
JSL0186
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)

Burns & McDonnell Engineering Co., Inc.
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Certificate of Authority
No. : 000165
BMcD Project No. 170361

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SCALE
0 20 40 60

MATCHLINE STA. 108+71

SPENCER AVE.

EX. MANHOLE (UIP) 16L2-052S
EX. 12" RCP (UIP)
EX. STORM INLET (DND) GRATE=622.43 SE 12" RCP=619.04 16L2-084D
LUMEN MANHOLE (DND)
EX. SIGN (DND)
6' SIDEWALK
LUMEN (DND)
+97.54 LT 33.50'
INLET 2L. CONVERT GRATE INLET TO TYPE X INLET (SEE CULVERT SECTION SHEET) (MODOT MAINTAIN) +31.25, LT 36.39'
FIBER (DND)
BLENDED TRANSITION +47.18 RT 34.41'
+29.40 RT 40.46'
TIE INTO EX. SIDEWALK
EX. PULL BOX (UIP)
EX. SIGN (UIP)
+29.40 RT 50.00'
TIE INTO EX. SIDEWALK
REPLACE EX. PULL BOX TOP
6' SIDEWALK (TYP)
EX. POWER POLES (DND)
SPIRE (R & RELOC BY OTHERS)
EX. PULL BOX (ATG)
MCI (R & RELOC BY OTHERS)
CHARTER (R&RELOC BY OTHERS)
+55.92 RT 43.91'
+60.55 RT 43.91'
EXIST. PED. POLE (R)
+60.55 RT 40.41'
EXIST. PED. POLE (UIP)
AT&T (DND)
+18.80 LT 47.96'
EX. PUSH BUTTON STANCHION (UIP)
TYPE 1 PARALLEL CURB RAMP
EX. PULL BOX (ATG)
EX. MAST ARM (UIP)
EX. LIGHT (DND)
6' SIDEWALK (TYP)
TIE INTO EX. SIDEWALK
EX. PUSH BUTTON STANCHION (UIP)
TIE INTO EX. SIDEWALK
STORM INLET GRATE=619.66 NW 12" RCP=616.31 NE 12" RCP=616.11 (UNKNOWN OUTLET) SE 18" RCP=614.91 16L2-083D
EX. LIGHT (DND)
TYPE B CURB AND GUTTER (TYP)
6' SIDEWALK (TYP)
RE + 31.43 LT. W = 21.5'
+10.83 LT 34.18'
+52.32 LT 34.18'
+73.22 LT 34.18'
CHARTER (DND)
RE + 88.86 LT. W = 11.3'
+21.14 LT 34.18'
EX. 18" RCP (UIP)
RE + 37.47 LT. W = 12.1'
+04.53 LT 34.18'
+58.00 LT 34.18'
EXIST. R/W
EX. SANITARY MANHOLE (ATG) 16L2-053S MSD INSPECTION REQUIRED
RE + 87.39 LT. W = 11.1'
+67.54 LT 34.18'
EXIST. R/W
EXIST. LANDSCAPE (DND)
+07.26 LT 34.18'
+45.39 LT 34.18'
SEE SPECIAL SHEET 'ADA SIDEWALK AND CURB RAMP DETAILS'
RE + 63.78 LT. W = 16.9'
RE + 91.29 LT. W = 10.8'
EX. LIGHT (DND)
+06.68 LT 34.18'
S79°09'02"E
℄ SURVEY ℄ ROUTE D

MATCHLINE STA. 114+21

R 10' R 15' R 30' R 35'

LEGEND
- PAVED APPROACH
- PROPOSED SIDEWALK
- ASPHALT PATCHING
- EX. SIDEWALK / RAMP (UIP)
- RAMP / LANDING
- TRUNCATED DOMES

KEYED NOTES
- (A) SMALL RADIUS PERPENDICULAR CURB RAMP
- (B) LARGE RADIUS PERPENDICULAR CURB RAMP

ROUTE D PLAN
SHEET 19 OF 28

c:\bmcd_lib\pw_connect\trn\d0171707\022_PL_SL0186_I20_19.dgn 9:24:53 AM 12/17/2025

STATE OF MISSOURI
ALLISON M. BRUNER
NUMBER PE-2019005896
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED, AND DATED ELECTRONICALLY
Digitally signed by Allison Bruner
Date: 2025.12.19 09:38:36-06'00'

DATE PREPARED 12/17/2025
ROUTE D | STATE MO
DISTRICT SL | SHEET NO. 22
COUNTY ST. LOUIS
JOB NO. JSL0186
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)

Burns & McDonnell Engineering Co., Inc.
425 South Woods Mill Road
Chesterfield, Missouri 63017
314-682-1500
Certificate of Authority No.: 000165
BMcD Project No. 170361

SCALE
0 20 40 60

PI 118+89.02
PC 116+99.78
PT 120+78.12
Δ 3°47'0.0" (LT)
D 0°59'59.9"
L 378.34' (ARC)
T 189.24'
R 5,729.65'

PAGEWOOD AVE.

EX. INLET (UIP)
GRATE=596.67
NW 18" RCP=592.20
SE 18" RCP=592.02
16L2-081D

TYPE S CURB
EXIST. PARKING BLOCKS (R)
EX. CURB (UIP)
EX. CURB (R)
EX. SANITARY MANHOLE (ATG)
16L2-054S
MSD INSPECTION REQUIRED
EXIST. R/W
TYPE B CURB AND GUTTER (TYP)
EX. GAS VALVE (DND)
EX. SIGN (UIP)
EX. INLET (ATG)
16L2-080D
EX. LANDSCPAING (DND)(TYP)
EX. LIGHT (DND)
EX. SIGN (UIP)
EX. INLET (UIP)
16L2-079D

115

4' ADA PATH
6' SIDEWALK

CE + 51.69 LT.
W = 19.6'
CE + 03.72 LT.
W = 20.0'
CE + 77.02 LT.
W = 40.0'
CE + 63.48 LT.
W = 42.8'
CE + 45.27 LT.
W = 60.2'

+07.07 LT 34.18'

+47.73 LT 34.18'
+32.42 LT 34.18'
+70.87 LT 34.18'
+83.73 LT 34.18'
+23.73 LT 34.18'
+47.03 LT 34.18'
+31.99 LT 34.09'
+97.33 LT 33.35'
+95.09 LT 33.39'
+97.57 LT 35.43'
+69.64 LT 33.54'

EX. FIRE HYDRANT (RELOC BY OTHERS)
EX. 18" RCP (UIP)
EX. LANDSCAPE (DND)

PC STA 116+99.78

S79°09'02"E

SURVEY ℄ ROUTE D

MATCHLINE STA. 114+21

MATCHLINE STA. 119+71

EX. INLET (UIP)
16L2-226D
EX. INLET (UIP)
16L2-227D
EXIST. R/W
EX. INLET (UIP)
16L2-0381D
EX. INLET (UIP)
16L2-0383D
EX. INLET (UIP)
16L2-151D
EX. INLET (UIP)
16L2-134D

SEE SURVEY NOTES

RIDDLE CT.

LEGEND

- PAVED APPROACH
- PROPOSED SIDEWALK
- ASPHALT PATCHING
- EX. SIDEWALK / RAMP (UIP)
- RAMP / LANDING
- TRUNCATED DOMES

KEYED NOTES

- (A) SMALL RADIUS PERPENDICULAR CURB RAMP
- (B) LARGE RADIUS PERPENDICULAR CURB RAMP

ROUTE D PLAN
SHEET 20 OF 28

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STATE OF MISSOURI
ALLISON M. BRUNER
NUMBER PE-2019005896
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED, AND DATED ELECTRONICALLY
Digitally signed by Allison Bruner
Date: 2025.12.19 09:38:36-06'00'

DATE PREPARED
12/17/2025

ROUTE	STATE
D	MO
DISTRICT	SHEET NO.
SL	23

COUNTY
ST. LOUIS

JOB NO.
JSL0186

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)

Burns & McDonnell Engineering Co., Inc.
425 South Woods Mill Road
Chesterfield, Missouri 63017
314-682-1500
Certificate of Authority No. : 000165
BMcD Project No. 170361

SCALE
0 20 40 60

MATCHLINE STA. 119+71

EX. GUARDRAIL (R)
BEGIN CHAINLINK FENCE +36.73
PROP. CHAINLINK FENCE
EX. SIGN (UIP)
12-IN. REINFORCED CURB
END CHAINLINK FENCE +52.13
EX. GUARDRAIL IN PARKING LOT (UIP)
EX. TREE (DND)
CE + 97.11 LT. W = 26.7'
120
EXIST. R/W
CE + 79.96 LT. W = 22.7'
R3
PT STA 120+78.13
+31.57 LT 33.72'
+58.45 LT 33.73'
+12.23 LT 33.49'
+01.30 LT 33.55'
EX. HEADWALL (UIP) 16L2-0294D
EX. FENCE (DND)
RELOCATE EX. SIGN
EX. CONCRETE CHANNEL (DND)
EX. INLET (DND) 16L2-133D
EX. HEADWALL (DND) 16L2-0394D
18-IN. REINFORCED CURB
EXIST. R/W
EX. MANHOLE (DND) 16L2-128S
EX. LUMEN MANHOLE (UIP)
EX. LUMEN MANHOLE (DND)
CE + 31.35 LT. W = 18.1'
EX INLET (UIP) 16L2-078D
+67.60 LT 33.20'
TYPE B CURB AND GUTTER (TYP)
+50.91 LT 33.29'
EX. TREE (DND)
CE + 97.64 LT. W = 40.0'
+27.60 LT 32.89'
+31.30 LT 32.87'
EX. SIGN (UIP)
TYPE 2 PARALLEL CURB RAMP
SURVEY ℄ ROUTE D
EX. MANHOLE (DND) 16L2-041S
EX INLET (DND) 16L2-075D
EX. LIGHT AND GUY WIRE (DND)
EX. TREE (DND)
CE + 55.02 LT. W = 30.1'
EX. MANHOLE (DND) 16L2-042S
EX. CURB (UIP)
CE + 11.58 LT. W = 43.0'
EX. MANHOLE (DND) 16L2-072D
EX. MANHOLE (UIP) 16L2-074D
EX. INLET (UIP) 16L2-131D
BURNS AVE.
BURNS AVE.
EXIST. FIRE HYDRANT (UIP)
EX. INLET (DND) 16L2-135D
LUMEN (DND)
EX. INLET (DND) 16L2-136D
EX. SIGN (DND)
EX. LANDSCAPING (R)
EX. LIGHT (DND)
EX. GAS VALVE (ATG)
CE + 86.06 LT. W = 38.7'
+15.41 LT 33.53'
EX. CURB INLET (ATG) 16L2-148D
4' ADA PATH
+31.21 LT 33.53'
EX. CURB (R)
+76.50 LT 33.53'
CE + 56.34 LT. W = 30.2'
6' SIDEWALK (TYP)
125
CE + 96.47 LT. W = 19.4'
+81.89 LT 33.53'
+16.16 LT 33.53'
S82°56'02"E
EX. PARKING BOLLARD (R)
+38.23 RT 34.50'
+81.59 RT 34.50'
+41.47 RT 34.50'
+81.75 RT 34.50'
CE + 60.00 RT W = 28.4'
CE + 12.90 RT W = 35.9'
CE + 03.59 RT W = 23.2'
+89.65 RT 34.50'
EX. POWER POLE (DND)
EX. TELECOMMUNICATIONS MANHOLE (DND)
EX. AT&T MANHOLE (DND)
EX. POWER POLE (DND)
EX. CURB (R)
EX. SIGN (DND)
EX. PARKING BOLLARD (R)
MATCHLINE STA. 125+21

LEGEND

- PAVED APPROACH
- PROPOSED SIDEWALK
- ASPHALT PATCHING
- EX. SIDEWALK / RAMP (UIP)
- RAMP / LANDING
- TRUNCATED DOMES

KEYED NOTES

- (A) SMALL RADIUS PERPENDICULAR CURB RAMP
- (B) LARGE RADIUS PERPENDICULAR CURB RAMP

ROUTE D PLAN
SHEET 21 OF 28

STATE OF MISSOURI
ALLISON M. BRUNER
NUMBER PE-2019005896
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED, AND DATED ELECTRONICALLY

Digitally signed by Allison Bruner
Date: 2025.12.19 09:38:37-06'00'

DATE PREPARED
12/17/2025

ROUTE	STATE
D	MO
DISTRICT	SHEET NO.
SL	24

COUNTY
ST. LOUIS

JOB NO.
JSL0186

CONTRACT ID.

PROJECT NO.

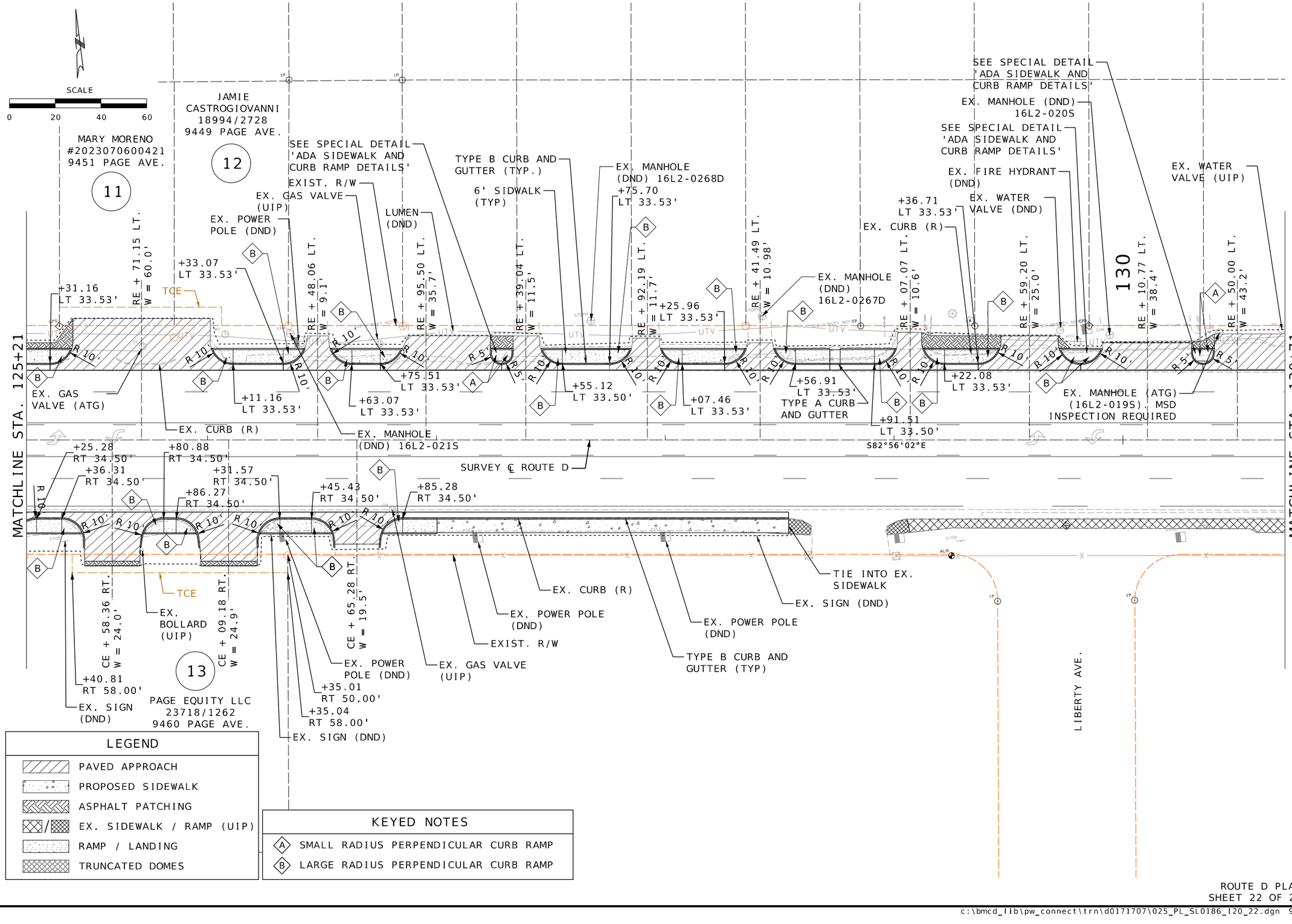
BRIDGE NO.

DESCRIPTION	DATE

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

Burns & McDonnell Engineering Co., Inc.
425 South Woods Mill Road
Chesterfield, Missouri 63017
314-682-1500
Certificate of Authority No. : 000165
BMcD Project No. 170361

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LEGEND

- PAVED APPROACH
- PROPOSED SIDEWALK
- ASPHALT PATCHING
- EX. SIDEWALK / RAMP (UIP)
- RAMP / LANDING
- TRUNCATED DOMES

KEYED NOTES

- (A) SMALL RADIUS PERPENDICULAR CURB RAMP
- (B) LARGE RADIUS PERPENDICULAR CURB RAMP

ROUTE D PLAN
SHEET 22 OF 28

ALLISON M. BRUNER NUMBER PE-2019005896
STATE OF MISSOURI PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED, AND DATED ELECTRONICALLY
Digitally signed by Allison Bruner
Date: 2025.12.19 09:38:37-06'00'

DATE PREPARED: 12/17/2025
ROUTE: D | STATE: MO
DISTRICT: SL | SHEET NO.: 25
COUNTY: ST. LOUIS
JOB NO.: JSL0186
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)

Burns & McDonnell Engineering Co., Inc.
425 South Woods Mill Road
Chesterfield, Missouri 63017
314-682-1500
Certificate of Authority No. : 000165
BMcD Project No. 170361

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SCALE
0 20 40 60

MATCHLINE STA. 130+71

MATCHLINE STA. 136+21

SEE SPECIAL SHEET 'ADA SIDEWALK AND CURB RAMP DETAILS'

SEE SPECIAL SHEET 'ADA SIDEWALK AND CURB RAMP DETAILS'

EXIST. GAS VALVE (UIP)

TYPE A CURB AND GUTTER

6' SIDEWALK (TYP)

LUMEN (DND)

EX. CURB (R)

EX. SANITARY MANHOLE (ATG)
16L2-018S
MSD INSPECTION REQUIRED

EXIST. WATER VALVE (UIP)

TCE

EX. SIGN (DND)

TIE INTO EX. SIDEWALK

EXIST. R/W

RE + 99.89 LT.
W = 13.9'

RE + 48.43 LT.
W = 10.0'

RE + 24.86 LT.
W = 10.0'

RE + 39.86 LT.
W = 20.0'

RE + 75.40 LT.
W = 33.5'

RE + 00.40 LT.
W = 41.7'

+67.77
LT 58.25'

RE + 75.86 LT.
W = 7.8'

+86.43
LT 58.25'

CE + 25.57 LT.
W = 45.6'

+36.40
LT 58.25'

CE + 71.61 LT.
W = 44.5'

+86.37
LT 58.25'

+86.36
LT 50.00'

+61.37
LT 38.11'

+17.93
LT 33.53'

+33.44
LT 33.53'

+63.43
LT 33.53'

+09.86
LT 33.50'

+43.38
LT 37.15'

+91.62
LT 43.50'

EXIST. LUMEN MANHOLE (ATG BY OTHERS)

EX. UTILITY POLE (DND)

TYPE B CURB AND GUTTER (TYP.)

EX. CURB (R)

EX. WATER VALVE (ATG)

EX. GAS VALVE (ATG)

SURVEY ℄ ROUTE D

S82°56'02"E

MARK BROWN & BEVERLY BROWN TRUST
24858/958
9419 PAGE AVE.
14

ROBERT TUCKER
13823/623
9417 PAGE AVE.
15

MARK BROWN & BEVERLY BROWN TRUST
24858/943
9415 PAGE AVE.
16

135

EXIST. R/W

ZIP'S CAR WASH

PRICE RD.

QUIKTRIP

LEGEND

- PAVED APPROACH
- PROPOSED SIDEWALK
- ASPHALT PATCHING
- EX. SIDEWALK / RAMP (UIP)
- RAMP / LANDING
- TRUNCATED DOMES

KEYED NOTES

- (A) SMALL RADIUS PERPENDICULAR CURB RAMP
- (B) LARGE RADIUS PERPENDICULAR CURB RAMP

ROUTE D PLAN
SHEET 23 OF 28

ALLISON M. BRUNER
NUMBER PE-2019005896
PROFESSIONAL ENGINEER
STATE OF MISSOURI

THIS SHEET HAS BEEN SIGNED, SEALED, AND DATED ELECTRONICALLY

Digitally signed by Allison Bruner
Date: 2025.12.19 09:38:37-06'00'

DATE PREPARED
12/17/2025

ROUTE	STATE
D	MO
DISTRICT	SHEET NO.
SL	26

COUNTY
ST. LOUIS

JOB NO.
JSL0186

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)

Burns & McDonnell Engineering Co., Inc.
425 South Woods Mill Road
Chesterfield, Missouri 63017
314-682-1500

Certificate of Authority
No. : 000165

BMcD Project No. 170361

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LEGEND

- PAVED APPROACH
- PROPOSED SIDEWALK
- ASPHALT PATCHING
- EX. SIDEWALK / RAMP (UIP)
- RAMP / LANDING
- TRUNCATED DOMES

MATCHLINE STA. 136+21

MATCHLINE STA. 141+71

TIE INTO EX. SIDEWALK
+14.73
LT 47.72'

EX. SIGN (UIP)
EX. INLET (UIP)
16L2-209D

SIDEWALK
+96.18
RT 35.32'

EX. INLET
(DND)
16L2-210D

1800 WOODSON LLC
25216/5161
1810 WOODSON RD.

17

CAPTAIN D'S
STORE MASTER FUNDING I LLC
A DELAWARE LIMITED
LIABILITY COMPANY
22816/2213
9387 PAGE AVE.

VOID

19

SCALE
0 20 40 60

CE + 63.13 RT.
W = 48.0'

EX. 18"
RCP (UIP)

EX. 12"
CMP (UIP)

EX.
LANDSCAPING
(DND)

+84.65
W = 40.2'

EX. INLET (ATG INLET & UIP
METAL TOP) MODOT MAINTAIN

EX. STORM MANHOLE
(UIP) 16L2-0349D

EX. INLET (UIP)
16L2-0288D

EX. TRENCH
DRAIN (DND)

EX. TREE (DND)

EX. SIGN (DND)

EXIST. R/W

MOBIL

+54.73
LT 50.03'

6' SIDEWALK
(TYP)

EX. TREE
(DND)

TIE INTO EX.
SIDEWALK

EX. INLET (UIP)
16L2-129D

EX.INLET (UIP)
16L2-059D

EX. INLET (UIP)
16L2-0369D

EX. MANHOLE
(UIP)
16L2-015S

18

1800 WOODSON LLC
17567/1368
1800 WOODSON RD.

TCE

6'
SIDEWALK
(TYP)

+28.33
RT 39.91'

+17.18
RT 40.67'

WOODSON RD.

CE + 88.03 RT.
W = 40.0'

SEE DETAIL A

EXIST.
MANHOLE
(ATG)

NEW
R/W

CE + 44.17 LT.
W = 39.1'

EX. SIGN (DND)

EX. TREE
(DND)

CE + 83.26 LT.
W = 15.8'

CE + 30.25 LT.
W = 15.4'

140

EX. SIGN (UIP)
EXIST. R/W
EX. SIDEWALK (R)

6' SIDEWALK (TYP)
TYPE B CURB AND
GUTTER (TYP)

CE + 12.99 LT.
W = 22.1'

EX. INLET (UIP)
16L2-031D

EX.PULLBOXES
(R)(SEE SIGNAL
SHEETS)

ADA
PATH

+13.64
LT 43.50'

+05.90
LT 43.51'

+50.11
LT 43.52'

+94.06
LT 43.50'

+37.25
LT 43.50'

EX. CURB
(R)

+57.14
LT 43.50'

TIE INTO EX.
SIDEWALK

EX. SIDEWALK
(R)

EX. INLET (UIP)
16L2-058D

EX. MANHOLE (UIP)
16L2-017S

SURVEY ℄ ROUTE D

PC STA 137+45.65

PT STA 139+80.64

+02.01
RT 44.44'

6' SIDEWALK

EX. CURB (R)

+14.07
RT 46.60'

TYPE 2 PARALLEL CURB RAMP

+20.68
RT 49.78'

EX. PED.
POLE (R)

+35.11
RT 66.69'

TYPE 2 PARALLEL
CURB RAMP

+37.34
RT 72.37'

EX. SIGNAL
POLE (UIP)

+42.89
RT 87.68'

TIE INTO EX.
RAMP

EX. INLET
(UIP)
16L2-030D

EX. STORM INLET
16L2-035D

EX. 12" RCP (UIP)

EX. STORM INLET
16L2-036D

TIE INTO EX.
SIDEWALK

EX. INLET (UIP)
16L2-034D

EX. 24"
RCP(UIP)

EX. SIDEWALK
(R)

+66.98
RT 49.00'

S80°35'02"E

EX. SIDEWALK
(R)

+25.27
RT 49.00'

TIE INTO EX.
SIDEWALK

EX. CURB
(UIP)

5' SIDEWALK

EX. INLET (UIP)
16L2-033D

EX. SIDEWALK (R)

EX. INLET (UIP)
16L2-032D

TIE INTO EX.
SIDEWALK

EXIST. R/W

EXIST. PULL BOX.
(ATG)

EX.
LIGHT
(DND)

WOODSON RD

R 36'

R 5'

R 5'

CE + 91.16 RT
W = 38.4'

EXIST. R/W

24

OVERLAND INC.
10908/324
9390 PAGE AVE.

VOID

PI	138+63.16
PC	137+45.65
PT	139+80.64
Δ	2°20'59.4" (RT)
D	0°59'59.9"
L	234.99' (ARC)
T	117.51'
R	5,729.65'

NOTE: SEE UTILITY SHEET 24 FOR UTILITY NOTES.

KEYED NOTES

- (A) SMALL RADIUS PERPENDICULAR CURB RAMP
- (B) LARGE RADIUS PERPENDICULAR CURB RAMP

DETAIL A

NEW R/W
TCE
PEDESTRIAN FENCE
12" RAISED
MEDIAN(6")

BEGIN PED. FENCE
BEGIN RETAINING WALL
STA. 138+94.25
OFF. 74.87' LT

RETAINING WALL
(26-SL0186-001)

END PED. FENCE
END RETAINING WALL
STA. 139+22.63
OFF. 56.98' LT

33.83'
12'
8'
13.05'

R 10'
ADA PATH
+20.58
LT 60.24'

R 35'

EX.POWER
POLE (UIP)
+35.53
LT 46.61'

ROUTE D PLAN
SHEET 24 OF 28

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STATE OF MISSOURI
ALLISON M. BRUNER
NUMBER PE-2019005896
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED, AND DATED ELECTRONICALLY
Digitally signed by Allison Bruner
Date: 2026.01.02 12:44:14-06'00'

DATE PREPARED
12/31/2025

ROUTE	STATE
D	MO
DISTRICT	SHEET NO.
SL	27

COUNTY
ST. LOUIS

JOB NO.
JSL0186

CONTRACT ID.

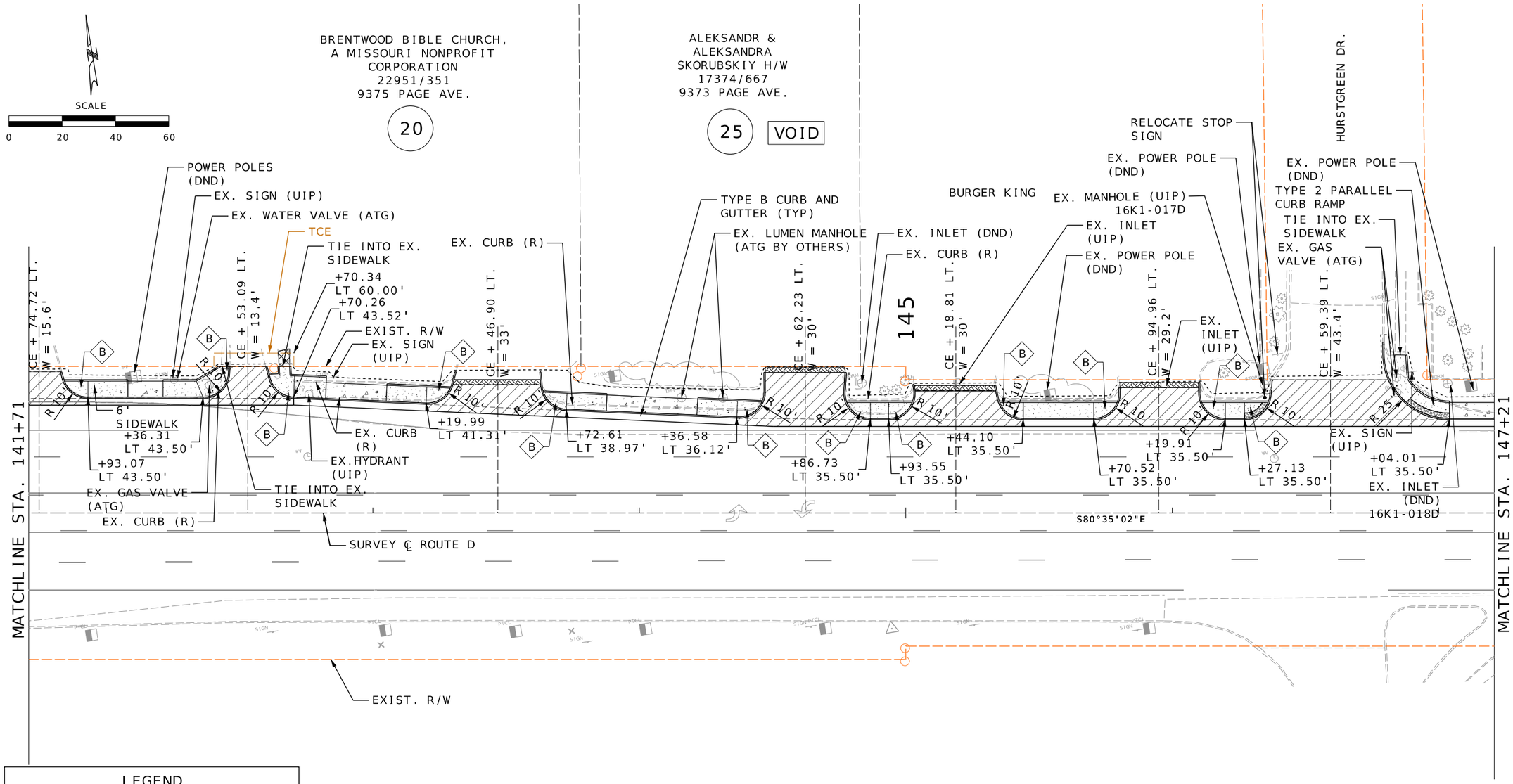
PROJECT NO.

BRIDGE NO.

DESCRIPTION	DATE

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

Burns & McDonnell Engineering Co., Inc.
425 South Woods Mill Road
Chesterfield, Missouri 63017
314-682-1500
Certificate of Authority
No. : 000165
BMcD Project No. 170361



LEGEND

- PAVED APPROACH
- PROPOSED SIDEWALK
- ASPHALT PATCHING
- EX. SIDEWALK / RAMP (UIP)
- RAMP / LANDING
- TRUNCATED DOMES

KEYED NOTES

- (A) SMALL RADIUS PERPENDICULAR CURB RAMP
- (B) LARGE RADIUS PERPENDICULAR CURB RAMP

ROUTE D PLAN
SHEET 25 OF 28

STATE OF MISSOURI
ALLISON M. BRUNER
NUMBER PE-2019005896
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED, AND DATED ELECTRONICALLY

Digitally signed by Allison Bruner
Date: 2025.12.19 09:38:37-06'00'

DATE PREPARED
12/17/2025

ROUTE	STATE
D	MO
DISTRICT	SHEET NO.
SL	28

COUNTY
ST. LOUIS

JOB NO.
JSL0186

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)

Burns & McDonnell Engineering Co., Inc.
425 South Woods Mill Road
Chesterfield, Missouri 63017
314-682-1500
Certificate of Authority
No. : 000165
BMcD Project No. 170361

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SCALE

0 20 40 60

EX. SIGN (UIP)

6' SIDEWALK

EX. INLET (ATG) 16K1-021D

TYPE B CURB AND GUTTER (TYP)

EX. MANHOLE (UIP) 16K1-019D

EX. MANHOLE (UIP) 16K1-020D

EX. CURB (R)

POWER POLE (DND)

EX. MANHOLE (DND) 16K1-022D

EXIST. DROP INLET (ATG) 16K1-023D

EX. DROP INLET (ATG)

RELOCATE SIGN

EX. INLET (DND) 16K1-024D

EX. INLET (DND) 16K1-025D

EXIST. R/W

TOTAL ACCESS URGENT CARE

PI 152+94.15
PC 151+37.68
PT 154+49.93
Δ 9°22'0.0" (LT)
D 2°59'58.7"
L 312.26' (ARC)
T 156.48'
R 1,910.08'

CE + 67.64 LT.
W = 40.0'

CE + 18.34 LT.
W = 31.0'

R 12'

R 10'

R 10'

R 10'

+40.03 LT 35.50'

+92.89 LT 35.55'

+93.45 LT 35.50'

+43.62 LT 35.50'

TIE INTO EX. SIDEWALK

MATCHLINE STA. 147+21

MATCHLINE STA. 152+71

PC STA 151+37.68

SURVEY ℄ ROUTE D

S80°35'02"E

EX. INLET (DND) 16K1-003D

END PROJECT STA. 149+57.16

EXIST. R/W

EX. MANHOLE (DND) 16K1-0240D

MCDONALD'S

150

LEGEND

- PAVED APPROACH
- PROPOSED SIDEWALK
- ASPHALT PATCHING
- EX. SIDEWALK / RAMP (UIP)
- RAMP / LANDING
- TRUNCATED DOMES

KEYED NOTES

- (A) SMALL RADIUS PERPENDICULAR CURB RAMP
- (B) LARGE RADIUS PERPENDICULAR CURB RAMP

ROUTE D PLAN
SHEET 26 OF 28

STATE OF MISSOURI
ALLISON M. BRUNER
NUMBER PE-2019005896
PROFESSIONAL ENGINEER

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Digitally signed by Allison Bruner
Date: 2025.12.19 09:38:37-06'00'

DATE PREPARED
12/17/2025

ROUTE	STATE
D	MO
DISTRICT	SHEET NO.
SL	29

COUNTY
ST. LOUIS

JOB NO.
JSL0186

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)

Burns & McDonnell Engineering Co., Inc.

425 South Woods Mill Road
Chesterfield, Missouri 63017
314-682-1500

Certificate of Authority
No. : 000165

BMcD Project No. 170361

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WENDY'S

NO PROPOSED IMPROVEMENTS THIS SHEET

HOME DEPOT

SCALE
0 20 40 60

INNERBELT BUSINESS CENTER DR.

EX. INLET (UIP) 16K1-029D

EX. INLET (UIP) 16K1-031D

EXIST. R/W

EX. INLET (UIP) 16K1-032D

EX. INLET (UIP) 16K1-033D

EX. INLET (UIP) 16K1-028D

EX. MANHOLE (UIP) 16K1-005S

EX. INLET (UIP) 16K1-027D

MATCHLINE STA. 152+71

PT STA 154+49.93 R3

155

S89°57'02"E

SURVEY ℄ ROUTE D

MATCHLINE STA. 158+21

EXIST. R/W

EX. INLET (UIP) 16K1-023D

EX. MANHOLE (UIP) 16K1-004S

7 UP DR.

DR. PEPPER SNAPPLE GROUP

LEGEND

- PAVED APPROACH
- PROPOSED SIDEWALK
- ASPHALT PATCHING
- EX. SIDEWALK / RAMP (UIP)
- RAMP / LANDING
- TRUNCATED DOMES

KEYED NOTES

- (A) SMALL RADIUS PERPENDICULAR CURB RAMP
- (B) LARGE RADIUS PERPENDICULAR CURB RAMP

ROUTE D PLAN
SHEET 27 OF 28

STATE OF MISSOURI
ALLISON M. BRUNER
NUMBER PE-2019005896
PROFESSIONAL ENGINEER

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Date: 2025.12.19 09:38:37-06'00'

DATE PREPARED
12/17/2025

ROUTE	STATE
D	MO
DISTRICT	SHEET NO.
SL	30

COUNTY
ST. LOUIS

JOB NO.
JSL0186

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)

Burns & McDonnell Engineering Co., Inc.
425 South Woods Mill Road
Chesterfield, Missouri 63017
314-682-1500
Certificate of Authority
No. : 000165
BMcD Project No. 170361

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MSD BASE MAPS: 15L, 15M, 16K, 16L MSD PREMIT NUMBER: 25MSD-00026

NO PROPOSED
IMPROVEMENTS THIS SHEET

SCALE
0 20 40 60

I-70

160

EX. HEADWALL (UIP)
16K1-091D

MATCHLINE STA. 158+21

MATCHLINE STA. 163+71

S89°57'02"E

SURVEY ℄ ROUTE D

EX. MANHOLE (UIP)
16K1-094D

EX. INLET (UIP)
16K1-093D

EX. MANHOLE (UIP)
16K1-023S

EX. INLET (UIP)
16K1-086D

EX. INLET (UIP)
16K1-085D

EX. INLET (UIP)
16K1-084D

EX. MANHOLE (UIP)
16K1-022S

EX. MANHOLE (UIP)
16K1-021S

EX. INLET (UIP)
16K1-078D

EX. INLET (UIP)
16K1-075D

EX. INLET (UIP)
16K1-076D

LEGEND

- PAVED APPROACH
- PROPOSED SIDEWALK
- ASPHALT PATCHING
- EX. SIDEWALK / RAMP (UIP)
- RAMP / LANDING
- TRUNCATED DOMES

KEYED NOTES

- (A) SMALL RADIUS PERPENDICULAR CURB RAMP
- (B) LARGE RADIUS PERPENDICULAR CURB RAMP

ROUTE D PLAN
SHEET 28 OF 28

STATE OF MISSOURI
ALLISON M. BRUNER
NUMBER PE-2019005896
PROFESSIONAL ENGINEER

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DATE PREPARED
12/17/2025

ROUTE	STATE
D	MO
DISTRICT	SHEET NO.
SL	31

COUNTY
ST. LOUIS

JOB NO.
JSL0186

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)

Burns & McDonnell Engineering Co., Inc.
425 South Woods Mill Road
Chesterfield, Missouri 63017
314-682-1500
Certificate of Authority
No. : 000165
BMcD Project No. 170361

c:\bmcd_lib\pw_connect\trn\d0171707\031_PL_SL0186_I20_28.dgn 9:26:49 AM 12/17/2025
MSD BASE MAPS: 15L, 15M, 16K, 16L MSD PREMIT NUMBER: 25MSD-00026

NOTE: FOR PROPERTIES WITH NO LISTED PARCEL #, NO ACQUISITION TO BE MADE.

SCALE
0 20 40 60

R/W PROPERTY DETAILS			
1	QUICKTRIP, GOLDENBERG ASSOCIATES LLC 348/48 10793 PAGE AVE.	381 SF(0.009 AC) TEMP. CONST. ESMT.	3.568 AC REMAINING

GBH PAGE AVENUE LLC
10799 PAGE AVE

QUICKTRIP
GOLDENBERG ASSOCIATES LLC
348/48
10793 PAGE AVE.
1

BEGIN PROJECT
STA. 24+60.70

TCE

STA. +89.10
57.98' LT.

STA. +89.09
54.98' LT.

STA. +98.55
57.97' LT.

STA. +98.55
54.97' LT.

STA. +97.77
65.91' LT.

STA. +97.77
54.91' LT.

A B C D E F

25

PC STA 23+71.76 R2

MATCHLINE STA. 26+21

SURVEY ℄ ROUTE D

S47°46'02"E

LOU FUSZ PROPERTIES LLC
10950 PAGE AVE.

ALDERSON SALES CO LLC
10825 LINPAGE PL

LINPAGE PL.

LEGEND

- EXIST. ROW (NORMAL ACCESS)
- EXIST. EASEMENT
- NEW R/W
- PERM. SIDEWALK EASEMENT (PSE)
- PERM. HIGHWAY EASEMENT (PHE)
- TEMP. CONSTRUCTION EASEMENT (TCE)

ALL THE FOLLOWING BEARINGS AND LENGTHS ARE SET CLOCKWISE - DEGREES/MINUTES/SECONDS

PARCEL #	POINT TO POINT	BEARING	LENGTH (FT)	BEARING	LENGTH (FT)	BEARING	LENGTH (FT)	BEARING	LENGTH (FT)	BEARING	LENGTH (FT)
1	A-B, B-C, C-D, D-A	N36°23'30"E	3.000	S53°50'38"E	8.978	S35°55'15"W	3.000	R=1095.71	9.003		
1	E-F, F-G, G-H, H-E	N30°56'46"E	11.000	S58°10'31"E	33.287	S29°13'30"W	10.000	R=1095.71	33.588		

ROUTE D ROW
SHEET 01 OF 15

STATE OF MISSOURI
ALLISON M. BRUNER
NUMBER PE-2019005896
PROFESSIONAL ENGINEER

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DATE PREPARED
12/17/2025

ROUTE	STATE
D	MO
DISTRICT	SHEET NO.
SL	32

COUNTY
ST. LOUIS

JOB NO.
JSL0186

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)

Burns & McDonnell Engineering Co., Inc.
425 South Woods Mill Road
Chesterfield, Missouri 63017
314-682-1500
Certificate of Authority
No. : 000165
BMcD Project No. 170361

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NOTE: FOR PROPERTIES WITH NO LISTED PARCEL #, NO ACQUISITION TO BE MADE.

R/W PROPERTY DETAILS		
1	QUICKTRIP, GOLDENBERG ASSOCIATES LLC 348/48 10793 PAGE AVE.	SEE ROW SHEET 01

SCALE
0 20 40 60

QUICKTRIP
GOLDENBERG ASSOCIATES LLC
348/48
10793 PAGE AVE.
1

HOSS HOLDINGS LLC
10779 PAGE AVE

MIKORD LLC
10775 PAGE AVE

PAGE INVESTMENT PROPERTIES LLC
10765 PAGE AVE

CKCM ENTERPRISES LLC
10753 PAGE AVE

PAGE AVENUE
APARTMENTS LLC
10751 PAGE AVE

TCE
STA. +33.05
64.89' LT
TCE
STA. +33.05
54.89' LT
G
H

PI 27+30.79
PC 23+71.76
PT 30+67.64
Δ 34°47'0.0" (LT)
D 4°59'54.3"
L 695.89' (ARC)
T 359.04'
R 1,146.28'

EXIST. R/W

30

PT STA 30+67.64 R2

S82°33'02"E

MATCHLINE STA. 26+21

MATCHLINE STA. 31+71

SURVEY ℄ ROUTE D

LINPAGE PL.

GALT INDUSTRIAL BLVD.

EXIST. R/W

SALVATION ARMY AN ILL CORP
10740 PAGE AVE.

SALVATION ARMY

LINPAGE ASSOCIATES LLC
10800 LINPAGE PL

OVERLAND HILL ASSOCIATION
10770 PAGE AVE

ALL THE FOLLOWING BEARINGS AND LENGTHS ARE SET CLOCKWISE - DEGREES/MINUTES/SECONDS

PARCEL #	POINT TO POINT	BEARING	LENGTH (FT)	BEARING	LENGTH (FT)	BEARING	LENGTH (FT)	BEARING	LENGTH (FT)	BEARING	LENGTH (FT)
1	SEE ROW SHEET 01										

LEGEND
- EXIST. ROW (NORMAL ACCESS)
- EXIST. EASEMENT
- NEW R/W
- PERM. SIDEWALK EASEMENT (PSE)
- PERM. HIGHWAY EASEMENT (PHE)
- TEMP. CONSTRUCTION EASEMENT (TCE)

ROUTE D ROW
SHEET 02 OF 15

STATE OF MISSOURI
ALLISON M. BRUNER
NUMBER PE-2019005896
PROFESSIONAL ENGINEER
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DATE PREPARED
12/17/2025

ROUTE	STATE
D	MO
DISTRICT	SHEET NO.
SL	33

COUNTY
ST. LOUIS

JOB NO.
JSL0186

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)

Burns & McDonnell Engineering Co., Inc.
425 South Woods Mill Road
Chesterfield, Missouri 63017
314-682-1500
Certificate of Authority
No. : 000165
BMcD Project No. 170361

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NOTE: FOR PROPERTIES WITH NO LISTED PARCEL #, NO ACQUISITION TO BE MADE.

R/W PROPERTY DETAILS			
2	WALGREENS, PAGE WARSON LLC III 17697/3047 10700 PAGE AVE.	335 SF(0.008 AC) TEMP. CONST. ESMT.	1.553 AC REMAINING

SCALE
0 20 40 60

PHD PROPERTIES LLC
10741 PAGE AVE

WILLIAM SCHOENHOEFER
10737 PAGE AVE

ZAIN III INVESTMENTS LLC
10725 PAGE AVE

SHELL GAS STATION MERELLOS SUNOCO GENERAL PARTNERSHIP
10715 PAGE AVE.

PAGE AVENUE APARTMENTS LLC
10751 PAGE AVE

SHELL GAS STATION MERELLOS SUNOCO GENERAL PARTNERSHIP
10701 PAGE AVE.

35

EXIST. R/W

MATCHLINE STA. 31+71

SURVEY ℄ ROUTE D

S82°33'02"E

MATCHLINE STA. 37+21

EXIST. R/W

SALVATION ARMY AN ILL CORP
10740 PAGE AVE.

PAGE WARSON LLC III
10720 PAGE AVE

PAGE WARSON LLC III
10710 PAGE AVE

STA. +99.82
50.62' RT.

STA. +99.75
60.37' RT.

TCE

2

WALGREENS
PAGE WARSON LLC III
17697/3047
10700 PAGE AVE.

LEGEND

- EXIST. ROW (NORMAL ACCESS)
- EXIST. EASEMENT
- NEW R/W
- PERM. SIDEWALK EASEMENT (PSE)
- PERM. HIGHWAY EASEMENT (PHE)
- TEMP. CONSTRUCTION EASEMENT (TCE)

ALL THE FOLLOWING BEARINGS AND LENGTHS ARE SET CLOCKWISE - DEGREES/MINUTES/SECONDS

PARCEL #	POINT TO POINT	BEARING	LENGTH (FT)	BEARING	LENGTH (FT)	BEARING	LENGTH (FT)	BEARING	LENGTH (FT)	BEARING	LENGTH (FT)
2	A-B, B-C, C-D, D-A	S82°33'59"E	28.473	S43°50'38"E	15.360	N82°46'28"W	40.526	N07°50'09"E	9.756		

ROUTE D ROW
SHEET 03 OF 15

STATE OF MISSOURI
ALLISON M. BRUNER
NUMBER PE-2019005896
PROFESSIONAL ENGINEER

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Date: 2025.12.19 09:38:38-06'00'

DATE PREPARED
12/17/2025

ROUTE	STATE
D	MO
DISTRICT	SHEET NO.
SL	34

COUNTY
ST. LOUIS

JOB NO.
JSL0186

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)

Burns & McDonnell Engineering Co., Inc.
425 South Woods Mill Road
Chesterfield, Missouri 63017
314-682-1500
Certificate of Authority
No. : 000165
BMcD Project No. 170361

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NOTE: FOR PROPERTIES WITH NO LISTED PARCEL #, NO ACQUISITION TO BE MADE.

SCALE
0 20 40 60

LEGEND
- EXIST. ROW (NORMAL ACCESS)
- EXIST. EASEMENT
- NEW R/W
- PERM. SIDEWALK EASEMENT (PSE)
- PERM. HIGHWAY EASEMENT (PHE)
- TEMP. CONSTRUCTION EASEMENT (TCE)

LOCUST AVE.

SHELL GAS STATION
MERELLOS SUNOCO
PARTNERSHIP
10701 PAGE AVE.

WARSON RD.

IMO'S
2ND GEN PROPERTIES
2022092600560
10641 PAGE AVE.

3

SEEMA PROPERTIES LLC
13869/2055
10635 PAGE AVE.

4

LAJJA REAL ESTATE
HOLDING LLC
10633 PAGE AVE

THREE BRIDGE PAGE
PARTNERS LLC ETAL
10611 PAGE AVE

EXIST. R/W

MATCHLINE STA. 37+21

MATCHLINE STA. 42+71

SURVEY ℄ ROUTE D

S82°33'02"E

STA. +26.71
70.91' LT.

STA. +05.28
68.69' LT.

STA. +06.02
59.14' LT.

TCE
STA. +46.95
58.01' LT.

STA. +46.89
49.48' LT.

STA. +39.63
59.46' LT.

STA. +73.69
69.60' LT.

STA. +73.69
59.46' LT.

STA. +73.69
49.46' LT.

STA. +28.29
50.61' RT.

STA. +40.28
60.22' RT.

TCE

2

WALGREENS
PAGE WARSON LLC III
17697/3047
10700 PAGE AVE.

PAGE AVENUE PROPERTIES LLC
10660 PAGE AVE

HILVIN INVESTMENT CORPORATION
10558 PAGE AVE

EXIST. R/W

WARSON RD.

R/W PROPERTY DETAILS

2	WALGREENS, PAGE WARSON LLC III 17697/3047 10700 PAGE AVE.	SEE ROW SHEET 03	
3	IMO'S, 2ND GEN PROPERTIES 2022092600560 10641 PAGE AVE.	433 SF(0.010 AC) TEMP. CONST. ESMT.	0.222 AC REMAINING
4	SEEMA PROPERTIES LLC 13869/2055 10635 PAGE AVE.	1010 SF(0.023 AC) TEMP. CONST. ESMT.	0.346 AC REMAINING

ALL THE FOLLOWING BEARINGS AND LENGTHS ARE SET CLOCKWISE - DEGREES/MINUTES/SECONDS

PARCEL #	POINT TO POINT	BEARING	LENGTH (FT)	BEARING	LENGTH (FT)	BEARING	LENGTH (FT)	BEARING	LENGTH (FT)	BEARING	LENGTH (FT)
2	SEE ROW SHEET 03										
3	E-F, F-G, G-M, M-E	N41°00'41"W	17.266	S80°57'29"E	47.006	S07°28'03"W	10.143	N82°33'02"W	34.061		
4	L-M, M-G, G-H, H-I, I-J	N07°28'03"E	10.000	N07°28'03"E	10.143	S80°57'29"E	32.601	S09°02'31"W	9.555	S80°57'29"E	40.944
4	J-K, K-L	S07°50'09"W	8.528	N82°33'59"W	73.200						

ROUTE D ROW
SHEET 04 OF 15

ALLISON M. BRUNER NUMBER PE-2019005896
STATE OF MISSOURI PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED, AND DATED ELECTRONICALLY
Digitally signed by Allison Bruner
Date: 2025.12.19 09:38:38-06'00'

DATE PREPARED: 12/17/2025
ROUTE: D | STATE: MO
DISTRICT: SL | SHEET NO.: 35
COUNTY: ST. LOUIS
JOB NO.: JSL0186
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)

Burns & McDonnell Engineering Co., Inc.
425 South Woods Mill Road
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314-682-1500
Certificate of Authority
No. : 000165

BMcD Project No. 170361

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NOTE: FOR PROPERTIES WITH NO LISTED PARCEL #, NO ACQUISITION TO BE MADE.

R/W PROPERTY DETAILS			
5	ENTERPRISE, WHITE PAGE 1 LLC, A MISSOURI LIMITED LIABILITY COMPANY 22560/17 10501 PAGE AVE.	944 SF(0.022 AC) TEMP. CONST. ESMT.	2.086 AC REMAINING

SCALE
0 20 40 60

REALTY INCOME PROPERTIES 21 LLC
10557 PAGE AVE

REALTY INCOME PROPERTIES 21 LLC
10551 PAGE AVE

POPEYES
HZ PROPS RE LTD
10545 PAGE AVE

ENTERPRISE
WHITE PAGE 1 LLC,
A MISSOURI LIMITED
LIABILITY COMPANY
22560/17
10501 PAGE AVE.

5

45

EXIST. R/W

STA. +07.89
55.66' LT.

STA. +07.90
49.66' LT.

TCE

B
A

MATCHLINE STA. 42+71

SURVEY ℄ ROUTE D

S82°33'02"E

MATCHLINE STA. 48+21

EXIST. R/W

HILVIN INVESTMENT CORPORATION
10558 PAGE AVE

HILVIN INVESTMENT CORPORATION
10550 PAGE AVE

HILVIN INVESTMENT CORPORATION
10520 PAGE AVE

BALDRIDGE ASHBY LLC
10500 PAGE AVE

LEGEND

- EXIST. ROW (NORMAL ACCESS)
- EXIST. EASEMENT
- NEW R/W
- PERM. SIDEWALK EASEMENT (PSE)
- PERM. HIGHWAY EASEMENT (PHE)
- TEMP. CONSTRUCTION EASEMENT (TCE)

ALL THE FOLLOWING BEARINGS AND LENGTH ARE SET CLOCKWISE - DEGREES/MINUTES/SECONDS

PARCEL #	POINT TO POINT	BEARING	LENGTH (FT)	BEARING	LENGTH (FT)	BEARING	LENGTH (FT)	BEARING	LENGTH (FT)	BEARING	LENGTH (FT)
5	A-B, B-C, C-D, D-E, E-F	N07°26'01"E	6.000	S82°33'02"E	120.501	S66°37'37"E	9.696	S82°33'02"E	54.625	S07°26'58"W	3.289
5	F-A	N82°33'59"W	184.448								

ROUTE D ROW
SHEET 05 OF 15

STATE OF MISSOURI
ALLISON M. BRUNER
NUMBER PE-2019005896
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED, AND DATED ELECTRONICALLY

Digitally signed by Allison Bruner
Date: 2025.12.19 09:38:38-06'00'

DATE PREPARED
12/17/2025

ROUTE	STATE
D	MO
DISTRICT	SHEET NO.
SL	36

COUNTY
ST. LOUIS

JOB NO.
JSL0186

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)

Burns & McDonnell Engineering Co., Inc.
425 South Woods Mill Road
Chesterfield, Missouri 63017
314-682-1500
Certificate of Authority
No. : 000165
BMcD Project No. 170361

c:\bmcd_lib\pw_connect\trn\d0199334\010B_RW_SL0186_120_07.dgn 5:05:41 PM 12/17/2025

R/W PROPERTY DETAILS			
5	ENTERPRISE, WHITE PAGE 1 LLC, A MISSOURI LIMITED LIABILITY COMPANY 22560/17 10501 PAGE AVE.	SEE ROW SHEET 05	
6	ANTHONY J VENTI JR & MARGARET A VENTI TRUST 2024012200199 10460 PAGE AVE.	103 SF(0.002 AC) PERM. SIDEWALK ESMT.	0.697 AC REMAINING

NOTE: FOR PROPERTIES WITH NO LISTED PARCEL #, NO ACQUISITION TO BE MADE.

SCALE
0 20 40 60

ENTERPRISE
WHITE PAGE 1 LLC,
A MISSOURI LIMITED
LIABILITY COMPANY
22560/17
10501 PAGE AVE.

5

STEAK N SHAKE
RCP N LLC
10459 PAGE AVE

STEAK N SHAKE
RCP N LLC
10445 PAGE AVE

ASHBY RD.

EXIST. R/W

STA. +28.39
55.66' LT.

STA. +37.72
53.00' LT.

TCE
STA. +92.34
53.00' LT.

STA. +92.34
49.71' LT.

C D E F

50

MATCHLINE STA. 48+21

S82°33'02"E

SURVEY ℄ ROUTE D

MATCHLINE STA. 64+71

STA. +00.82
79.02' RT.

STA. +11.39
68.95' RT.

G H I J K

STA. +03.27
89.53' RT.

PSE

STA. +02.94
99.99' RT.

STA. +00.94
100.00' RT.

EXIST. R/W

BALDRIDGE ASHBY LLC
10500 PAGE AVE

ASHBY RD.

6

ANTHONY J VENTI JR &
MARGARET A VENTI TRUST
2024012200199
10460 PAGE AVE.

VALVOLINE LLC
10448 PAGE AVE

LEGEND

- EXIST. ROW (NORMAL ACCESS)
- EXIST. EASEMENT
- NEW R/W
- PERM. SIDEWALK EASEMENT (PSE)
- PERM. HIGHWAY EASEMENT (PHE)
- TEMP. CONSTRUCTION EASEMENT (TCE)

ALL THE FOLLOWING BEARINGS AND LENGTHS ARE SET CLOCKWISE - DEGREES/MINUTES/SECONDS

PARCEL #	POINT TO POINT	BEARING	LENGTH (FT)	BEARING	LENGTH (FT)	BEARING	LENGTH (FT)	BEARING	LENGTH (FT)	BEARING	LENGTH (FT)
5	SEE ROW SHEET 05										
6	G-H, H-I, I-J, J-K, K-G	N53°50'31"E	14.590	S28°58'47"W	22.123	S09°15'53"W	10.464	N82°46'45"W	2.000	N07°08'20"E	20.983

ROUTE D ROW
SHEET 06 OF 15

THIS SHEET HAS BEEN SIGNED, SEALED, AND DATED ELECTRONICALLY
Digitally signed by Allison Bruner
Date: 2025.12.19 09:38:38-06'00'

DATE PREPARED
12/17/2025

ROUTE	STATE
D	MO
DISTRICT	SHEET NO.
SL	37

COUNTY
ST. LOUIS

JOB NO.
JSL0186

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)

Burns & McDonnell Engineering Co., Inc.
425 South Woods Mill Road
Chesterfield, Missouri 63017
314-682-1500
Certificate of Authority
No. : 000165
BMcD Project No. 170361

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NOTE: FOR PROPERTIES WITH NO LISTED PARCEL #, NO ACQUISITION TO BE MADE.

R/W PROPERTY DETAILS			
7	FIRE CHICKEN, BAIKS PAGE LLC 2022040800693 10200 PAGE AVE.	259 SF(0.006 AC) TEMP. CONST. ESMT. 116 SF(0.003 AC) PERM. HIGHWAY ESMT. (PHE)	0.342 AC REMAINING

SCALE
0 20 40 60

TD REALTY LLC
10301 PAGE AVE

UCEYLE AVE.

WAFFLE HOUSE INC
10221 PAGE AVE

OCONNELL AVE.

FCFS MO INC
10201 PAGE AVE

65

70

EXIST. R/W

MATCHLINE STA. 53+71

SURVEY ℄ ROUTE D

S82°09'02"E

MATCHLINE STA. 70+06

EXIST. R/W

BACH RD.

STA. +35.23
50.00' RT

STA. +35.28
53.00' RT

TCE

7

DUNKIN'
INNTEL CORPORATION OF AMERICA
10250 PAGE AVE

MIGUEL & ISIDORA LOPEZ H/W
10226 PAGE AVE

KANTA EQUITY L L C
10204 PAGE AVE

FIRE CHICKEN
BAIKS PAGE LLC
2022040800693
10200 PAGE AVE.

LEGEND

- EXIST. ROW (NORMAL ACCESS)
- EXIST. EASEMENT
- NEW R/W
- PERM. SIDEWALK EASEMENT (PSE)
- PERM. HIGHWAY EASEMENT (PHE)
- TEMP. CONSTRUCTION EASEMENT (TCE)

ALL THE FOLLOWING BEARINGS AND LENGTHS ARE SET CLOCKWISE - DEGREES/MINUTES/SECONDS

PARCEL #	POINT TO POINT	BEARING	LENGTH (FT)	BEARING	LENGTH (FT)	BEARING	LENGTH (FT)	BEARING	LENGTH (FT)	BEARING	LENGTH (FT)
7	A-B, B-H, H-I, I-A	S82°09'02"E	86.405	S07°50'58"W	3.000	N82°09'02"W	86.352	N06°50'30"E	3.000		
7	B-C, C-D, D-E, E-F, F-G	S82°09'02"E	13.841	S06°52'06"W	15.481	N83°07'54"W	4.000	N06°52'06"E	10.049	N82°09'02"W	9.935
7	G-H, H-B	N07°50'58"E	2.500	N07°50'58"E	3.000						

ROUTE D ROW
SHEET 07 OF 15

ALLISON M. BRUNER NUMBER PE-2019005896 PROFESSIONAL ENGINEER STATE OF MISSOURI
THIS SHEET HAS BEEN SIGNED, SEALED, AND DATED ELECTRONICALLY
Digitally signed by Allison Bruner
Date: 2025.12.19 09:38:38-06'00'

DATE PREPARED 12/17/2025
ROUTE D | STATE MO
DISTRICT SL | SHEET NO. 38
COUNTY ST. LOUIS
JOB NO. JSL0186
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)

Burns & McDonnell Engineering Co., Inc.
425 South Woods Mill Road
Chesterfield, Missouri 63017
314-682-1500
Certificate of Authority
No. : 000165
BMcD Project No. 170361

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R/W PROPERTY DETAILS			
7	FIRE CHICKEN, BAIKS PAGE LLC 2022040800693 10200 PAGE AVE.	SEE ROW SHEET 07	
8	SCOOTER'S COFFEE, LIRON AVNERI 24588/5108 10190 PAGE AVE.	85 SF(0.002 AC) PERM. SIDEWALK ESMT.	0.429 AC REMAINING

NOTE: FOR PROPERTIES WITH NO LISTED PARCEL #, NO ACQUISITION TO BE MADE.

SCALE
0 20 40 60

FCFS MO INC
10201 PAGE AVE

DYER AVE.

RONALD FROESEL ETAL
10055 PAGE AVE

GERARD FROESEL FAMILY
LTD PARTNERSHIP
1701 NORTHFIELD DR

NORTHFIELD DR.

75

EXIST. R/W

POT STA 74+23.45 R2

SURVEY ℄ ROUTE D

MATCHLINE STA. 70+06

MATCHLINE STA. 97+71

STA. +21.63
50.00' RT

STA. +21.63
53.00' RT

STA. +31.57
55.50' RT

STA. +35.48
50.00' RT

STA. +85.48
50.00' RT

STA. +88.56
54.50' RT

STA. +35.74
65.48' RT

STA. +99.48
50.00' RT

STA. +99.48
54.50' RT

STA. +31.74
65.55' RT

PHE

PSE

STA. +88.69
61.75' RT

STA. +85.69
61.80' RT

STA. +21.63
55.50' RT

TCE

PAGE INDUSTRIAL BLVD.

8
SCOOTER'S COFFEE
LIRON AVNERI
24588/5108
10190 PAGE AVE.

EXIST. R/W

UNION ELECTRIC COMPANY
10188 PAGE AVE A

JAMMIN J
PROPERTIES LLC
10188 PAGE AVE

UNTERREIRNER DIANA M
REVOCABLE TRUST
1673 JODY INDUSTRIAL CT

JOY INDUSTRIAL CT.

ENTERPRISE LEASING COMPANY
OF ST LOUIS
10144 PAGE AVE.

7
FIRE CHICKEN
BAIKS PAGE LLC
2022040800693
10200 PAGE AVE.

ALL THE FOLLOWING BEARINGS AND LENGTHS ARE SET CLOCKWISE - DEGREES/MINUTES/SECONDS

PARCEL #	POINT TO POINT	BEARING	LENGTH (FT)	BEARING	LENGTH (FT)	BEARING	LENGTH (FT)	BEARING	LENGTH (FT)	BEARING	LENGTH (FT)
7	SEE ROW SHEET 07										
8	J-K, K-L, L-M, M-N, N-O	S82°09'02"E	13.995	S07°50'58"W	4.500	N82°09'02"W	10.917	S06°52'25"W	7.253	N83°07'54"W	3.000
8	O-J	N06°52'06"E	11.805								

LEGEND	
	EXIST. ROW (NORMAL ACCESS)
	EXIST. EASEMENT
	NEW R/W
	PERM. SIDEWALK EASEMENT (PSE)
	PERM. HIGHWAY EASEMENT (PHE)
	TEMP. CONSTRUCTION EASEMENT (TCE)

ROUTE D ROW
SHEET 08 OF 15

STATE OF MISSOURI
ALLISON M. BRUNER
NUMBER PE-2019005896
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED, AND DATED ELECTRONICALLY
Digitally signed by Allison Bruner
Date: 2025.12.19 09:38:38-06'00'

DATE PREPARED: 12/17/2025
ROUTE: D | STATE: MO
DISTRICT: SL | SHEET NO.: 39
COUNTY: ST. LOUIS
JOB NO.: JSL0186
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)

Burns & McDonnell Engineering Co., Inc.
425 South Woods Mill Road
Chesterfield, Missouri 63017
314-682-1500
Certificate of Authority
No. : 000165
BMcD Project No. 170361

R/W PROPERTY DETAILS			
9	AF ALAM LLC 19622/510 9800 PAGE AVE.	100 SF(0.002 AC) NEW R/W	1.275 AC REMAINING
10	BP GAS STATION, NATIONAL RETAIL PROPERTIES LP 17741/1349 9791 PAGE AVE.	533 SF(0.012 AC) TEMP. CONST. ESMT.	2.191 AC REMAINING

NOTE: FOR PROPERTIES WITH NO LISTED PARCEL #, NO ACQUISITION TO BE MADE.

SCALE
0 20 40 60

BP GAS STATION
NATIONAL RETAIL PROPERTIES LP
17741/1349
9791 PAGE AVE.
10

HANKINS REAL ESTATE PTNSP
9801 PAGE AVE.

PI 98+22.10
PC 97+06.77
PT 99+36.32
Δ 13°46'0.0" (LT)
D 5°59'50.1"
L 229.55' (ARC)
T 115.33'
R 955.37'

EXIST. R/W
100
℄
PT STA 99+36.32 R2
SURVEY ℄ ROUTE D
MATCHLINE STA. 75+71
MATCHLINE STA. 103+21
S79°39'02"E
TCE
STA. +93.09
56.00' LT
STA. +93.09
50.00' LT
STA. +69.90
50.00' RT
EXIST. EASEMENT
STA. +64.89
50.00' RT
NEW
R/W
STA. +65.96
70.00' RT
STA. +70.96
70.00' RT
EXIST. R/W
EXIST. EASEMENT
EXIST. R/W
EXIST. EASEMENT
A
B
C
D
E
F
G
H

AREC 8 LLC
(U-HAUL)
9820 PAGE AVE.

9
AF ALAM LLC
19622/510
9800 PAGE AVE.

DIELMAN RD.

MAA SANTOSHI LLC
9720 PAGE AVE.

LEGEND
- EXIST. ROW (NORMAL ACCESS)
- EXIST. EASEMENT
- NEW R/W
- PERM. SIDEWALK EASEMENT (PSE)
- PERM. HIGHWAY EASEMENT (PHE)
- TEMP. CONSTRUCTION EASEMENT (TCE)

ALL THE FOLLOWING BEARINGS AND LENGTHS ARE SET CLOCKWISE - DEGREES/MINUTES/SECONDS

PARCEL #	POINT TO POINT	BEARING	LENGTH (FT)	BEARING	LENGTH (FT)	BEARING	LENGTH (FT)	BEARING	LENGTH (FT)	BEARING	LENGTH (FT)
9	A-B, B-C, C-D, D-A	S79°39'02"E	5.007	S07°17'44"W	20.029	N79°39'02"W	5.000	N07°16'31"E	20.029		
10	E-F, F-G, G-H, H-E	N10°20'58"E	6.000	S79°39'02"E	88.856	S10°20'58"W	6.000	N79°39'02"W	88.856		

ROUTE D ROW
SHEET 09 OF 15

STATE OF MISSOURI
ALLISON M. BRUNER
NUMBER PE-2019005896
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED, AND DATED ELECTRONICALLY
Digitally signed by Allison Bruner
Date: 2025.12.19 09:38:38-06'00'

DATE PREPARED 12/17/2025
ROUTE D | STATE MO
DISTRICT SL | SHEET NO. 40
COUNTY ST. LOUIS
JOB NO. JSL0186
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)

Burns & McDonnell Engineering Co., Inc.
425 South Woods Mill Road
Chesterfield, Missouri 63017
314-682-1500
Certificate of Authority
No. : 000165
BMcD Project No. 170361

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R/W PROPERTY DETAILS			
10	BP GAS STATION, NATIONAL RETAIL PROPERTIES LP 17741/1349 9791 PAGE AVE.	SEE ROW SHEET 09	
21	BC3 LLC 21608/3085 9677 PAGE AVE.	210 SF(0.005 AC) TEMP. CONST. ESMT.	0.285 AC REMAINING
22	AYCHIEN SHEE REVOCABLE LIVING TRUST 20695/1182 9707 PAGE AVE.	99 SF(0.002 AC) TEMP. CONST. ESMT.	0.506 AC REMAINING
23	ALAA ALQAZAHA 2023081400039 9605 PAGE AVE.	102 SF(0.002 AC) TEMP. CONST. ESMT.	0.165 AC REMAINING

NOTE: FOR PROPERTIES WITH NO LISTED PARCEL #, NO ACQUISITION TO BE MADE.

SCALE
0 20 40 60

BP GAS STATION NATIONAL RETAIL PROPERTIES LP 17741/1349 9791 PAGE AVE.
10

BC3 LLC 9719 PAGE AVE.

BC3 LLC 21608/3085 9677 PAGE AVE.
21

BC3 LLC 9663 PAGE AVE.

PEACE OF MIND LEARNING ACADEMY LLC 9659 PAGE AVE.

AYCHIEN SHEE REVOCABLE LIVING TRUST 20695/1182 9707 PAGE AVE.
22

ALAA ALQAZAHA 2023081400039 9605 PAGE AVE.
23

105

STA. +81.94 56.00' LT
STA. +81.94 50.00' LT
TCE
G
H
ALM
J
I
K
L
STA. +03.31 55.00' LT
STA. +03.31 50.00' LT
TCE
EXIST. R/W
CPS
STA. +72.95 54.93' LT
STA. +62.02 55.00' LT
TCE
STA. +62.02 50.00' LT
N
O
P
Q
R
M
T
S
TCE
STA. +01.93 55.00' LT
STA. +01.93 50.00' LT
STA. +81.26 54.95' LT
STA. +81.58 50.00' LT
STA. +72.95 50.00' LT
1P
STA. +61.16 55.00' LT
STA. +61.43 50.00' LT

MATCHLINE STA. 103+21

S79°39'02"E

SURVEY ℄ ROUTE D

S79°09'02"E

EQUATION:
STA 107+73.15 BK =
STA 107+72.95 POT STA 107+72.95 R3

MATCHLINE STA. 125+21

EXIST. EASEMENT

EXIST. R/W

MAA SANTOSHI LLC
9720 PAGE AVE.

AUTOZONE
AZO B LP A DELAWARE
LTD LIABILTY CO
9710 PAGE AVE

LEGEND	
EXIST. ROW (NORMAL ACCESS)	
EXIST. EASEMENT	
NEW R/W	
PERM. SIDEWALK EASEMENT (PSE)	
PERM. HIGHWAY EASEMENT (PHE)	
TEMP. CONSTRUCTION EASEMENT (TCE)	

ALL THE FOLLOWING BEARINGS AND LENGTHS ARE SET CLOCKWISE - DEGREES/MINUTES/SECONDS

PARCEL #	POINT TO POINT	BEARING	LENGTH (FT)	BEARING	LENGTH (FT)	BEARING	LENGTH (FT)	BEARING	LENGTH (FT)	BEARING	LENGTH (FT)
10	SEE ROW SHEET 09										
21	I-J, J-K, K-L, L-I	N07°13'01"E	5.008	S79°39'02"E	42.152	S10°20'58"W	5.000	N79°39'02"W	41.878		
22	M-N, N-O, O-P, P-S, S-T	N10°20'58"E	5.000	S79°17'26"E	11.611	S79°17'26"E	8.314	S07°13'00"W	4.959	N79°09'02"W	8.847
22	T-M	N79°39'02"W	11.350								
23	S-P, P-Q, Q-R, R-S	N07°13'00"E	4.959	S79°17'26"E	20.662	S10°50'58"W	5.000	N79°09'02"W	20.347		

ROUTE D ROW
SHEET 10 OF 15

THIS SHEET HAS BEEN SIGNED, SEALED, AND DATED ELECTRONICALLY
Digitally signed by Allison Bruner
Date: 2025.12.19 09:38:38-06'00'

DATE PREPARED 12/17/2025
ROUTE D | STATE MO
DISTRICT SL | SHEET NO. 41
COUNTY ST. LOUIS
JOB NO. JSL0186
CONTRACT ID.
PROJECT NO.
BRIDGE NO.

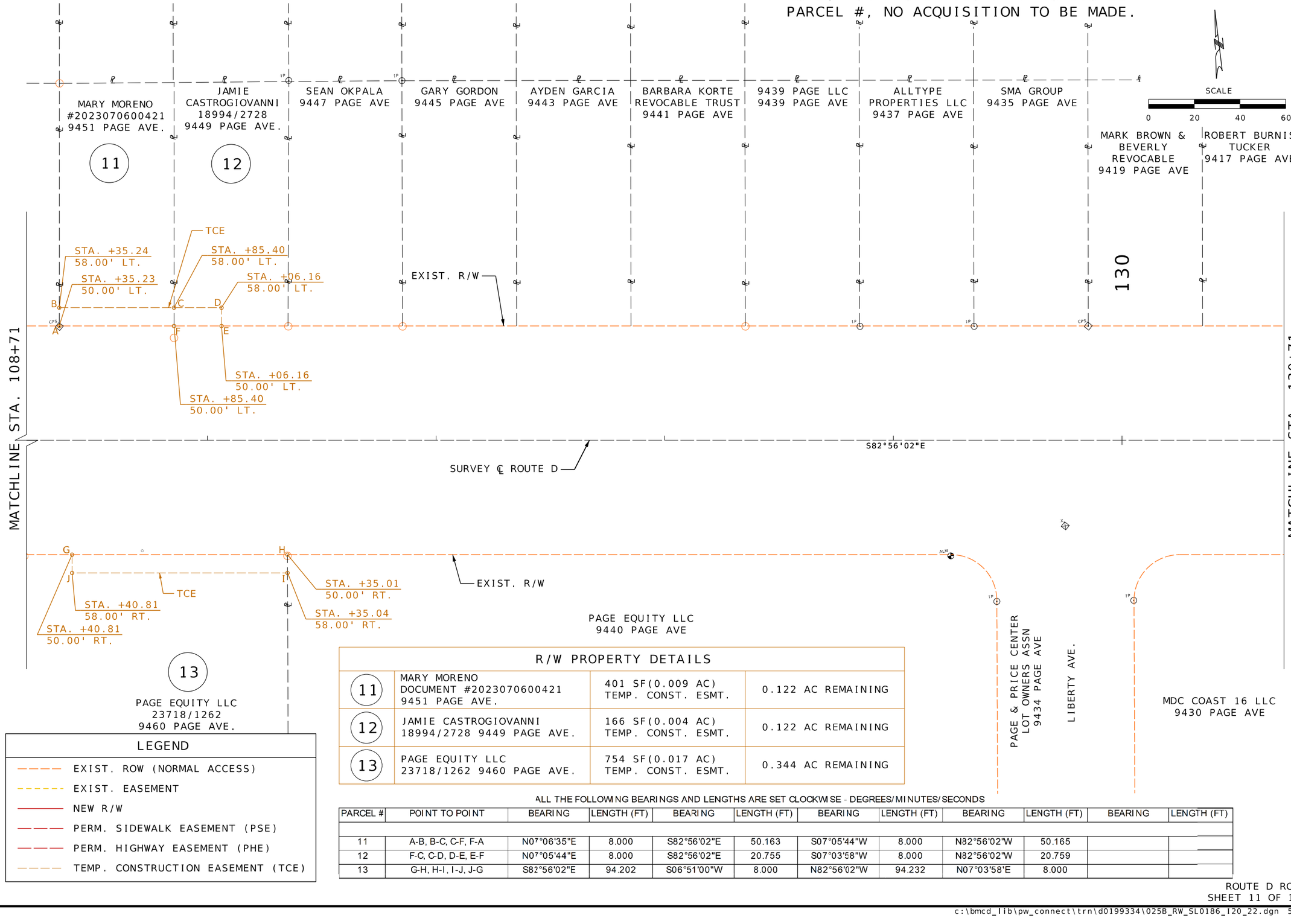
DESCRIPTION | DATE

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

Burns & McDonnell Engineering Co., Inc.
425 South Woods Mill Road
Chesterfield, Missouri 63017
314-682-1500
Certificate of Authority
No. : 000165
BMcD Project No. 170361

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NOTE: FOR PROPERTIES WITH NO LISTED PARCEL #, NO ACQUISITION TO BE MADE.



LEGEND

- EXIST. ROW (NORMAL ACCESS)
- EXIST. EASEMENT
- NEW R/W
- PERM. SIDEWALK EASEMENT (PSE)
- PERM. HIGHWAY EASEMENT (PHE)
- TEMP. CONSTRUCTION EASEMENT (TCE)

R/W PROPERTY DETAILS

11	MARY MORENO DOCUMENT #2023070600421 9451 PAGE AVE.	401 SF(0.009 AC) TEMP. CONST. ESMT.	0.122 AC REMAINING
12	JAMIE CASTROGIOVANNI 18994/2728 9449 PAGE AVE.	166 SF(0.004 AC) TEMP. CONST. ESMT.	0.122 AC REMAINING
13	PAGE EQUITY LLC 23718/1262 9460 PAGE AVE.	754 SF(0.017 AC) TEMP. CONST. ESMT.	0.344 AC REMAINING

ALL THE FOLLOWING BEARINGS AND LENGTHS ARE SET CLOCKWISE - DEGREES/MINUTES/SECONDS

PARCEL #	POINT TO POINT	BEARING	LENGTH (FT)	BEARING	LENGTH (FT)	BEARING	LENGTH (FT)	BEARING	LENGTH (FT)	BEARING	LENGTH (FT)
11	A-B, B-C, C-F, F-A	N07°06'35"E	8.000	S82°56'02"E	50.163	S07°05'44"W	8.000	N82°56'02"W	50.165		
12	F-C, C-D, D-E, E-F	N07°05'44"E	8.000	S82°56'02"E	20.755	S07°03'58"W	8.000	N82°56'02"W	20.759		
13	G-H, H-I, I-J, J-G	S82°56'02"E	94.202	S06°51'00"W	8.000	N82°56'02"W	94.232	N07°03'58'E	8.000		

ROUTE D ROW
SHEET 11 OF 15

STATE OF MISSOURI
ALLISON M. BRUNER
NUMBER PE-2019005896
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED, AND DATED ELECTRONICALLY
Digitally signed by Allison Bruner
Date: 2025.12.19 09:38:38-06'00'

DATE PREPARED: 12/17/2025

ROUTE	STATE
D	MO
DISTRICT	SHEET NO.
SL	42

COUNTY: ST. LOUIS
JOB NO.: JSL0186
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)

Burns & McDonnell Engineering Co., Inc.
425 South Woods Mill Road
Chesterfield, Missouri 63017
314-682-1500
Certificate of Authority
No. : 000165
BMcD Project No. 170361

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NOTE: FOR PROPERTIES WITH NO LISTED PARCEL #, NO ACQUISITION TO BE MADE.

SCALE
0 20 40 60

PHUOC VAN TRAN & JEANNIE LUONG T/E 9429 PAGE AVE

PHUOC VAN TRAN & JEANNIE LUONG T/E 9427 PAGE AVE

NICHOLAS NGUYEN 9425 PAGE AVE

TRIPLE HMAA PROPERTIES LLC 9423 PAGE AVE

TRIPLE HMAA PROPERTIES LLC 9421 PAGE AVE

MARK BROWN & BEVERLY BROWN TRUST 24858/958 9419 PAGE AVE.

ROBERT TUCKER 13823/623 9417 PAGE AVE.

MARK BROWN & BEVERLY BROWN TRUST 24858/943 9415 PAGE AVE.

MOBIL GAS STATION
WALLIS PETROLEUM LC
9403 PAGE AVE.

14 15 16

STA. +36.40 58.25' LT.

STA. +86.37 58.25' LT.

135

STA. +67.77 58.25' LT.

STA. +67.77 50.00' LT.

TCE

B C D E

A H G F

STA. +86.43 58.25' LT.

STA. +86.44 50.00' LT.

STA. +86.36 50.00' LT.

STA. +36.40 50.00' LT.

MATCHLINE STA. 130+71

SURVEY ℄ ROUTE D

S82°56'02"E

MATCHLINE STA. 136+21

PRICE RD.

ZIPS CAR WASH
MDC COAST 16 LLC
9430 PAGE AVE.

QUIKTRIP CORPORATION
9404 PAGE AVE.

LEGEND

- EXIST. ROW (NORMAL ACCESS)
- EXIST. EASEMENT
- NEW R/W
- PERM. SIDEWALK EASEMENT (PSE)
- PERM. HIGHWAY EASEMENT (PHE)
- TEMP. CONSTRUCTION EASEMENT (TCE)

R/W PROPERTY DETAILS

14	MARK BROWN & BEVERLY BROWN TRUST 24858/958 9419 PAGE AVE.	154 SF(0.004 AC) TEMP. CONST. ESMT.	0.125 AC REMAINING
15	ROBERT TUCKER 13823/623 9417 PAGE AVE.	412 SF(0.009 AC) TEMP. CONST. ESMT.	0.124 AC REMAINING
16	MARK BROWN & BEVERLY BROWN TRUST 24858/943 9415 PAGE AVE.	412 SF(0.009 AC) TEMP. CONST. ESMT.	0.113 AC REMAINING

ALL THE FOLLOWING BEARINGS AND LENGTHS ARE SET CLOCKWISE - DEGREES/MINUTES/SECONDS

PARCEL #	POINT TO POINT	BEARING	LENGTH (FT)	BEARING	LENGTH (FT)	BEARING	LENGTH (FT)	BEARING	LENGTH (FT)	BEARING	LENGTH (FT)
14	A-B, B-C, C-H, H-A	N07°03'58"E	8.250	S82°56'02"E	18.655	S06°58'55"W	8.250	N82°56'02"W	18.667		
15	H-C, C-D, D-G, G-H	N06°58'55"E	8.250	S82°56'02"E	49.970	S07°02'28"W	8.250	N82°56'02"W	49.962		
16	G-D, D-E, E-F, F-G	N07°02'28"E	8.250	S82°56'02"E	49.970	S07°05'56"W	8.250	N82°56'02"W	49.962		

ROUTE D ROW
SHEET 12 OF 15

ALLISON M. BRUNER NUMBER PE-2019005896 PROFESSIONAL ENGINEER STATE OF MISSOURI

THIS SHEET HAS BEEN SIGNED, SEALED, AND DATED ELECTRONICALLY

Digitally signed by Allison Bruner
Date: 2025.12.19 09:38:38-06'00'

DATE PREPARED 12/17/2025

ROUTE	STATE
D	MO
DISTRICT	SHEET NO.
SL	43

COUNTY ST. LOUIS
JOB NO. JSL0186
CONTRACT ID.
PROJECT NO.
BRIDGE NO.

DESCRIPTION	DATE

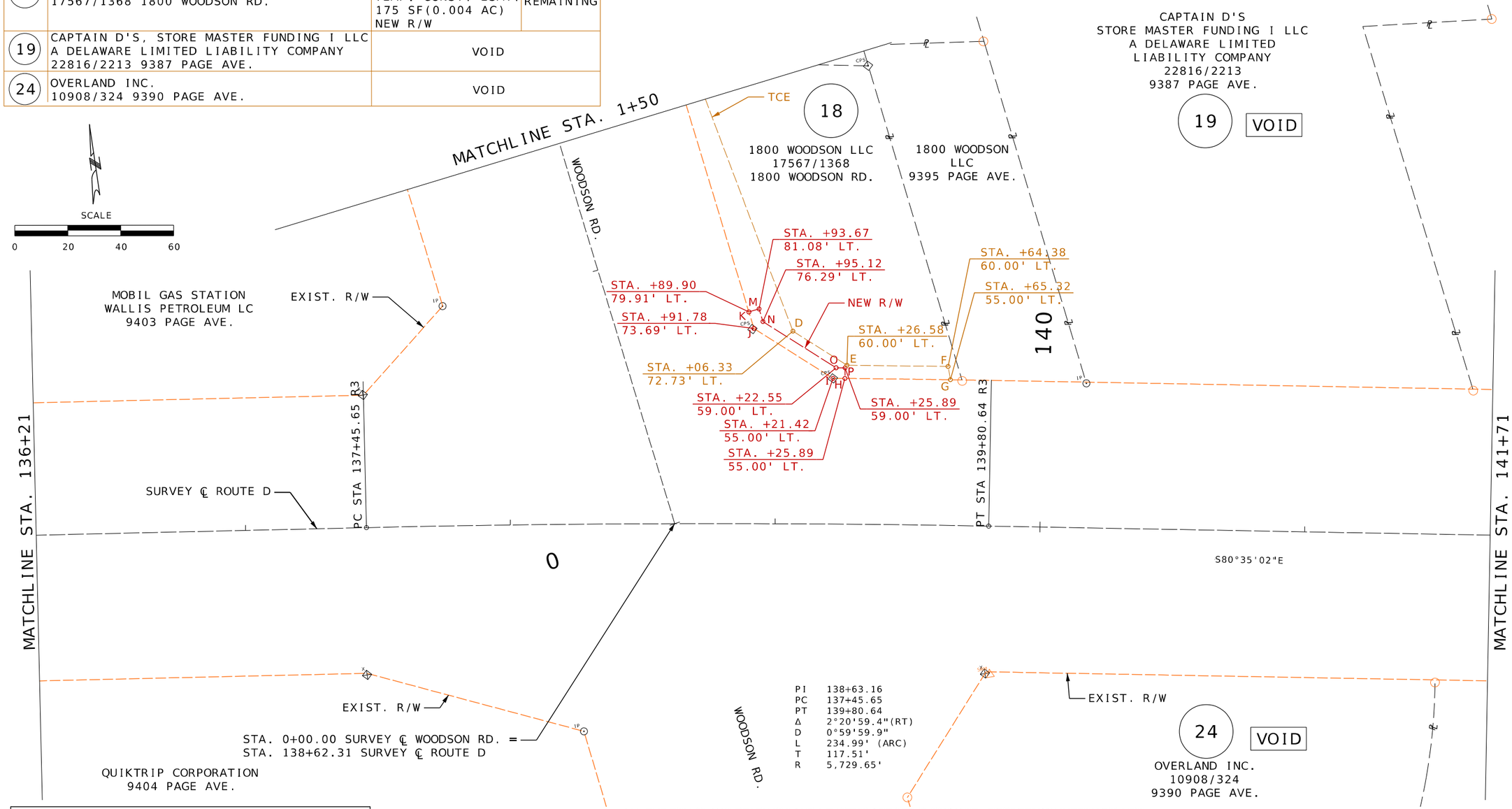
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

Burns & McDonnell Engineering Co., Inc.
425 South Woods Mill Road
Chesterfield, Missouri 63017
314-682-1500
Certificate of Authority
No. : 000165
BMcD Project No. 170361

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R/W PROPERTY DETAILS			
18	1800 WOODSON LLC 17567/1368 1800 WOODSON RD.	1313 SF(0.030 AC) TEMP. CONST. ESMT. 175 SF(0.004 AC) NEW R/W	0.190 AC REMAINING
19	CAPTAIN D'S, STORE MASTER FUNDING I LLC A DELAWARE LIMITED LIABILITY COMPANY 22816/2213 9387 PAGE AVE.	VOID	
24	OVERLAND INC. 10908/324 9390 PAGE AVE.	VOID	

NOTE: FOR PROPERTIES WITH NO LISTED PARCEL #, NO ACQUISITION TO BE MADE.



LEGEND

- EXIST. ROW (NORMAL ACCESS)
- EXIST. EASEMENT
- NEW R/W
- PERM. SIDEWALK EASEMENT (PSE)
- PERM. HIGHWAY EASEMENT (PHE)
- TEMP. CONSTRUCTION EASEMENT (TCE)

ALL THE FOLLOWING BEARINGS AND LENGTHS ARE SET CLOCKWISE - DEGREES/MINUTES/SECONDS

PARCEL #	POINT TO POINT	BEARING	LENGTH (FT)	BEARING	LENGTH (FT)	BEARING	LENGTH (FT)	BEARING	LENGTH (FT)	BEARING	LENGTH (FT)
18	L-C, C-D, D-E, E-F, F-G	S80°30'52"E	6.920	S12°18'54"E	108.460	S49°22'24"E	24.124	S80°55'57'E	38.190	S01°34'25"E	5.091
18	G-H, H-P, P-O, O-N, N-M	R=5784.65	39.815	N08°49'28"E	4.000	N81°08'54"W	3.374	N49°22'24"W	32.691	N08°29'58"W	5.013
18	M-K, K-L	S81°30'02"W	4.000	N08°29'58"W	98.605						
18	K-M, M-N, N-O, O-P, P-H	N81°30'02"E	4.000	S08°29'58"E	5.013	S49°22'24"E	32.691	S81°08'54'E	3.374	S08°49'28"W	4.000
18	H-I, I-J, J-K	R=5784.65	4.514	N49°22'24"W	35.321	N08°29'58"W	6.503				
19	VOID										
19	VOID										
24	VOID										

ROUTE D ROW
SHEET 13 OF 15

ALLISON M. BRUNER NUMBER PE-2019005896 PROFESSIONAL ENGINEER
STATE OF MISSOURI
THIS SHEET HAS BEEN SIGNED, SEALED, AND DATED ELECTRONICALLY
Digitally signed by Allison Bruner
Date: 2026.01.02 12:44:14-06'00'

DATE PREPARED 12/31/2025

ROUTE	STATE
D	MO
DISTRICT	SHEET NO.
SL	44

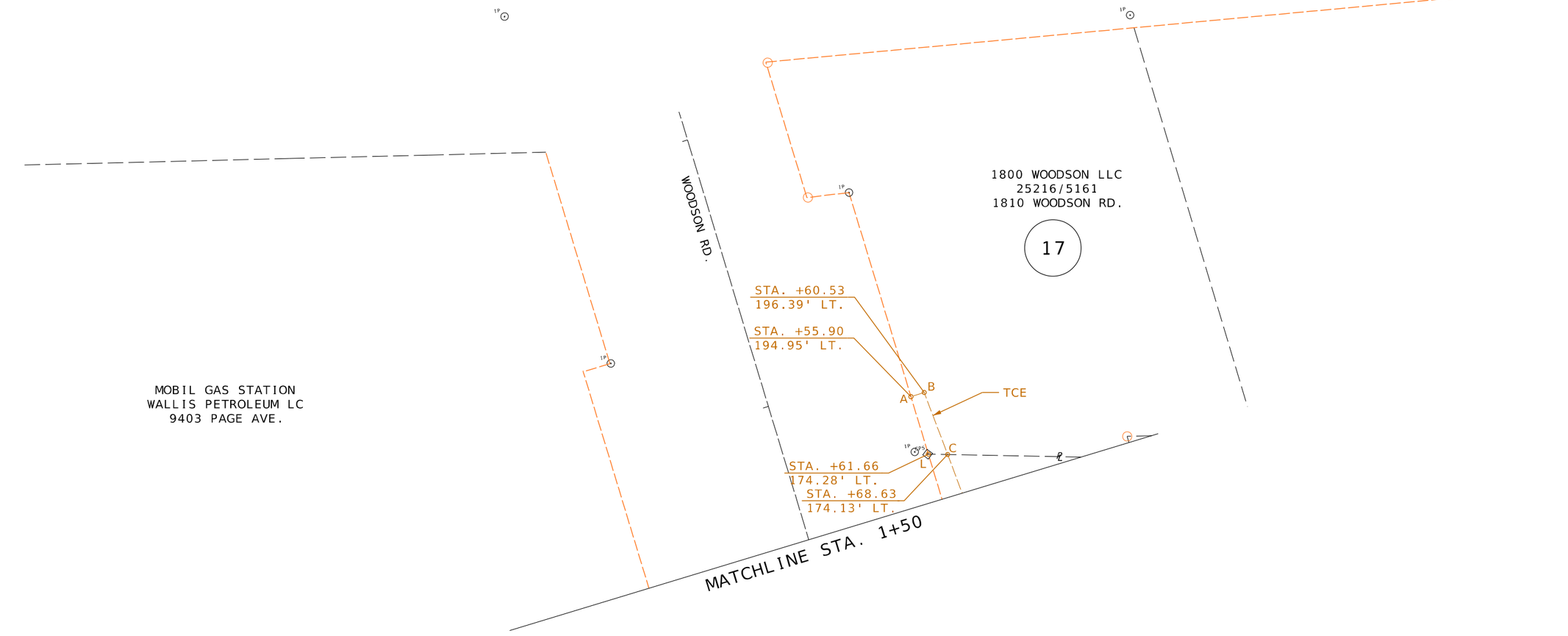
COUNTY: ST. LOUIS
JOB NO.: JSL0186
CONTRACT ID.:
PROJECT NO.:
BRIDGE NO.:

DESCRIPTION | DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)
Burns & McDonnell Engineering Co., Inc.
425 South Woods Mill Road
Chesterfield, Missouri 63017
314-682-1500
Certificate of Authority
No. : 000165
BMcD Project No. 170361

NOTE: FOR PROPERTIES WITH NO LISTED PARCEL #, NO ACQUISITION TO BE MADE.

SCALE
0 20 40 60



LEGEND

- EXIST. ROW (NORMAL ACCESS)
- EXIST. EASEMENT
- NEW R/W
- PERM. SIDEWALK EASEMENT (PSE)
- PERM. HIGHWAY EASEMENT (PHE)
- TEMP. CONSTRUCTION EASEMENT (TCE)

R/W PROPERTY DETAILS

17	1800 WOODSON LLC 25216/5161 1810 WOODSON RD.	130 SF(0.003 AC) TEMP. CONST. ESMT.	0.418 AC REMAINING

ALL THE FOLLOWING BEARINGS AND LENGTHS ARE SET CLOCKWISE - DEGREES/MINUTES/SECONDS

PARCEL #	POINT TO POINT	BEARING	LENGTH (FT)	BEARING	LENGTH (FT)	BEARING	LENGTH (FT)	BEARING	LENGTH (FT)	BEARING	LENGTH (FT)
17	A-B, B-C, C-L, L-A	N81°30'02"E	5.000	S12°18'54"E	23.778	N80°30'52"W	6.920	N08°29'58"W	21.588		

ROUTE D ROW
SHEET 14 OF 15

STATE OF MISSOURI
ALLISON M. BRUNER
NUMBER PE-2019005896
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED, AND DATED ELECTRONICALLY
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Date: 2025.12.19 09:38:39-06'00'

DATE PREPARED 12/17/2025
ROUTE D | STATE MO
DISTRICT SL | SHEET NO. 45
COUNTY ST. LOUIS
JOB NO. JSL0186
CONTRACT ID.
PROJECT NO.
BRIDGE NO.

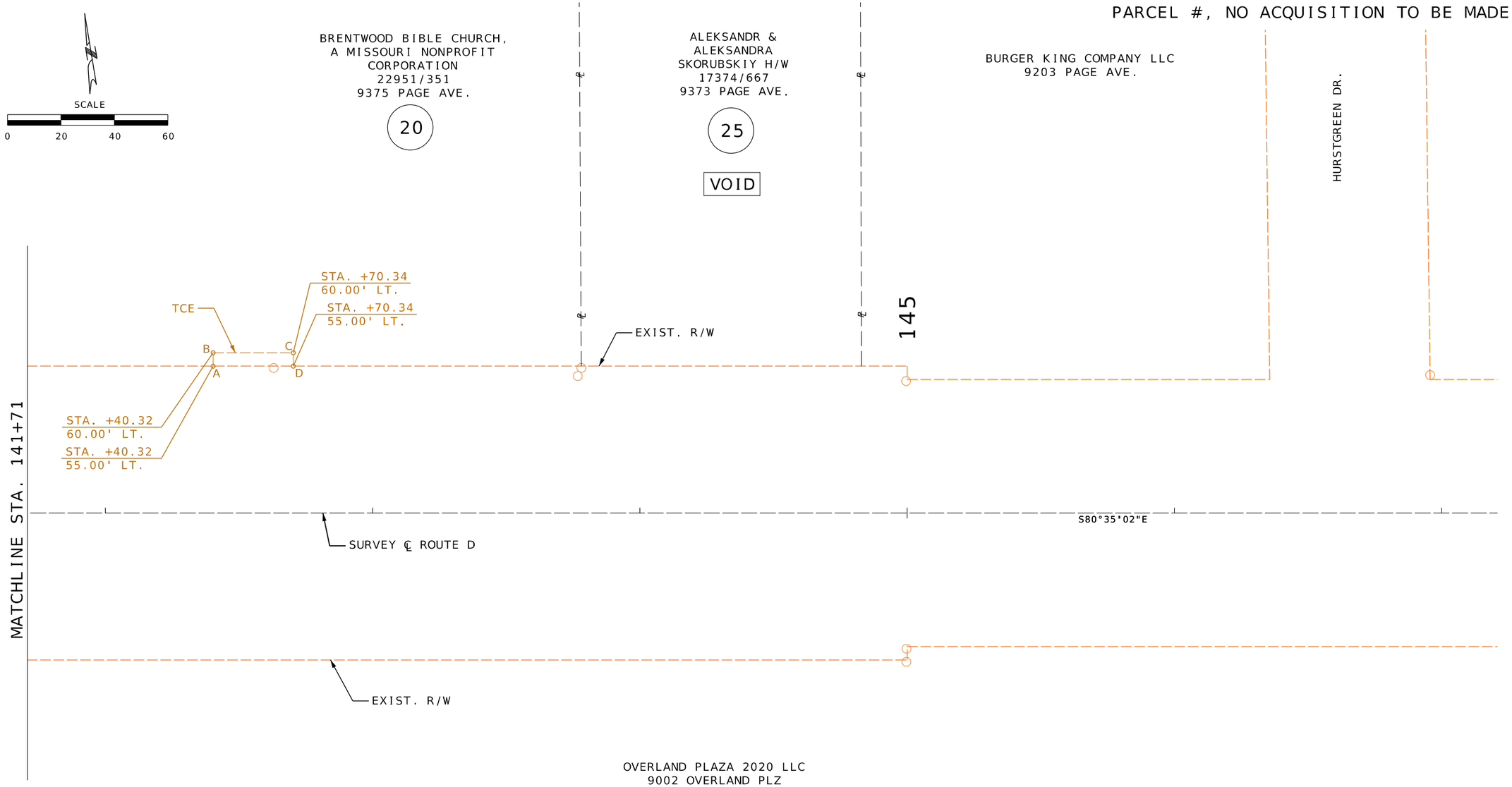
DESCRIPTION	DATE

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

Burns & McDonnell Engineering Co., Inc.
425 South Woods Mill Road
Chesterfield, Missouri 63017
314-682-1500
Certificate of Authority
No. : 000165
BMcD Project No. 170361

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NOTE: FOR PROPERTIES WITH NO LISTED PARCEL #, NO ACQUISITION TO BE MADE.



LEGEND	
———	EXIST. ROW (NORMAL ACCESS)
- - - - -	EXIST. EASEMENT
———	NEW R/W
———	PERM. SIDEWALK EASEMENT (PSE)
———	PERM. HIGHWAY EASEMENT (PHE)
———	TEMP. CONSTRUCTION EASEMENT (TCE)

R/W PROPERTY DETAILS			
20	BRENTWOOD BIBLE CHURCH, A MISSOURI NONPROFIT CORPORATION 22951/351 9375 PAGE AVE.	150 SF(0.003 AC) TEMP. CONST. ESMT.	1.107 AC REMAINING
25	ALEKSANDR & ALEKSANDRA SKORUBSKIY H/W 17374/667 9373 PAGE AVE.	VOID	

ALL THE FOLLOWING BEARINGS AND LENGTHS ARE SET CLOCKWISE - DEGREES/MINUTES/SECONDS

PARCEL #	POINT TO POINT	BEARING	LENGTH (FT)	BEARING	LENGTH (FT)	BEARING	LENGTH (FT)	BEARING	LENGTH (FT)	BEARING	LENGTH (FT)
20	A-B, B-C, C-D, D-A	N09°24'58"E	5.000	S80°35'02"E	30.016	S09°24'58"W	5.000	N80°35'02"W	30.016		
25	E-F, F-G, G-H, H-E	VOID									

ROUTE D ROW
SHEET 15 OF 15

STATE OF MISSOURI
ALLISON M. BRUNER
NUMBER PE-2019005896
PROFESSIONAL ENGINEER
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Digitally signed by Allison Bruner
Date: 2025.12.19 09:38:39-06'00'

DATE PREPARED 12/17/2025

ROUTE	STATE
D	MO
DISTRICT	SHEET NO.
SL	46

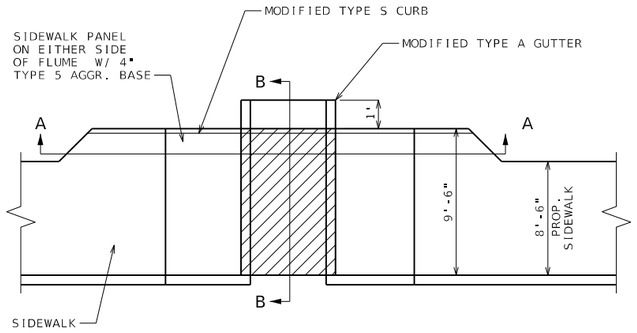
COUNTY: ST. LOUIS
JOB NO.: JSL0186
CONTRACT ID.:
PROJECT NO.:
BRIDGE NO.:

DESCRIPTION	DATE

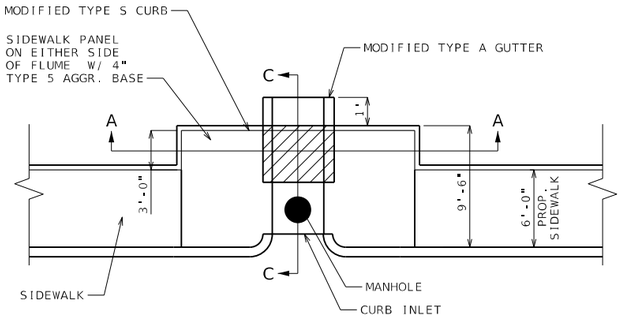
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

Burns & McDonnell Engineering Co., Inc.
425 South Woods Mill Road
Chesterfield, Missouri 63017
314-682-1500
Certificate of Authority
No. : 000165
BMcD Project No. 170361

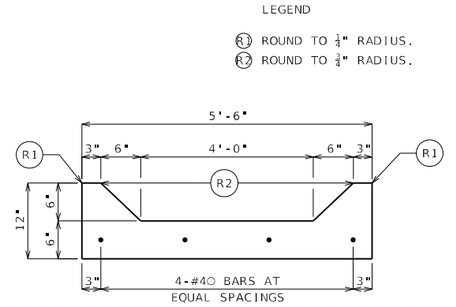
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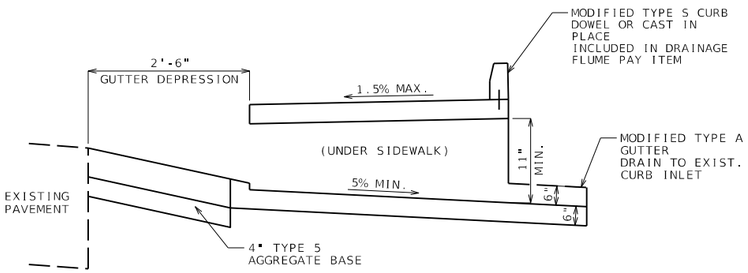
PLAN
(SIDEWALK AT BACK OF CURB)



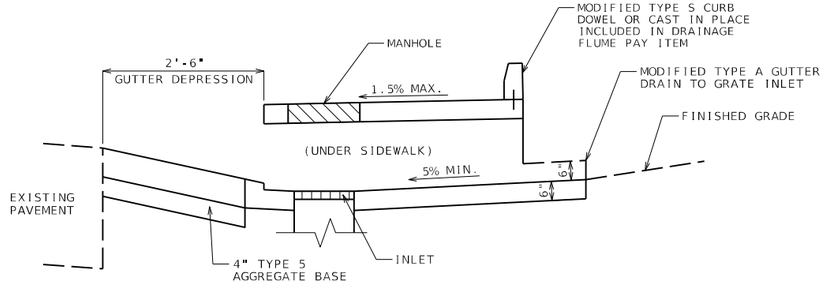
PLAN
(SIDEWALK AT BACK OF INLET)



MODIFIED TYPE A GUTTER

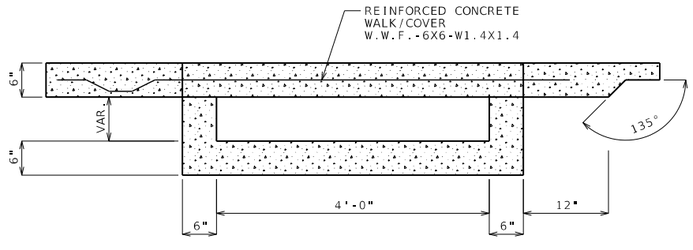


SECTION B-B



SECTION C-C

4 FT X 4 FT DRAINAGE FLUME DETAILS



SECTION A-A

9 FT X 4 FT DRAINAGE FLUME DETAILS

ROUTE D SPECIAL DETAIL
SHEET 01 OF 18

STATE OF MISSOURI
ALLISON M. BRUNER
NUMBER PE-2019005896
PROFESSIONAL ENGINEER
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DATE PREPARED
12/17/2025

ROUTE	STATE
D	MO
DISTRICT	SHEET NO.
SL	47

COUNTY
ST. LOUIS

JOB NO.
JSL0186

CONTRACT ID.

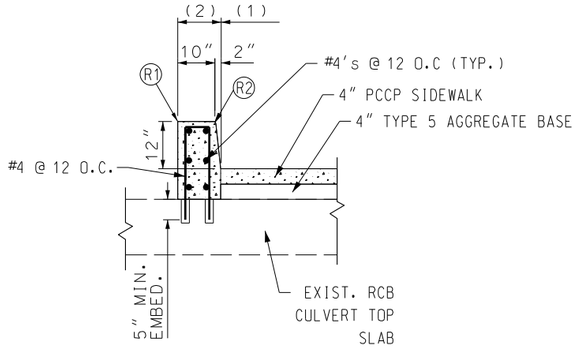
PROJECT NO.

BRIDGE NO.

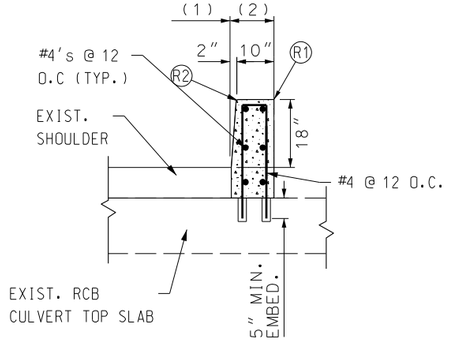
DESCRIPTION	DATE

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

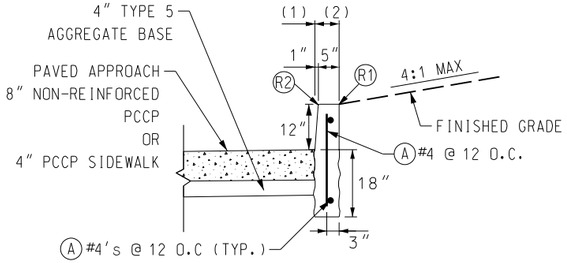
Burns & McDonnell Engineering Co., Inc.
425 South Woods Mill Road
Chesterfield, Missouri 63017
314-682-1500
Certificate of Authority
No. : 000165
BMcD Project No. 170361



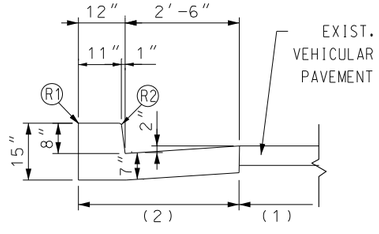
12-IN REINFORCED CURB



18-IN REINFORCED CURB



REINFORCED TYPE S CURB



12-IN. BARRIER CURB

CURB DETAILS

LEGEND

(R1) ROUND TO $\frac{1}{4}$″ RADIUS (EXCEPT FOR SAWED JOINTS).

(R2) ROUND TO $\frac{3}{4}$″ RADIUS.

(R3) CONSTRUCT TO 9″ RADIUS.

(A) #4 EPOXY COATED LONGITUDINAL AND TIE BARS. LONGITUDINAL BAR GAPPED 4″ AT JOINTS AND ANY SPLICES LAPPED 8″. TIE BARS AT 12″ CENTERS AND LENGTH EQUALS THICKNESS OF PAVEMENT PLUS HEIGHT OF CURB MINUS 3″. MINIMUM 1″ COVER OVER ALL BARS.

(1) PAY LIMIT FOR PAVEMENT

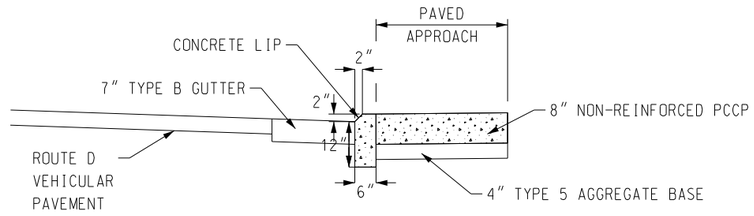
(2) PAY LIMIT FOR CURB.

NOTES:
(1) SPECIAL MOUNTABLE CURB SHALL BE BUILT WITH THE PAVED APPROACHES AT NO DIRECT PAY. NOT FOR USE AT SIDE ROADS. SEE QUANTITY TABLE FOR LOCATIONS.

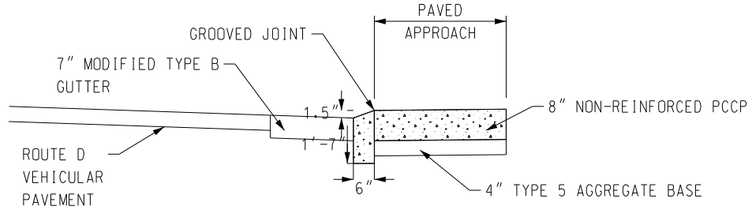
(2) THE CONTRACTOR SHALL USE ONE OF THE QUALIFIED RESIN ANCHOR SYSTEMS IN ACCORDANCE WITH SEC 1039.

(3) COST OF FURNISHING AND INSTALLING THE RESIN ANCHOR SYSTEMS, COMPLETE IN PLACE, WILL BE CONSIDERED COMPLETELY COVERED BY THE CONTRACT UNIT PRICE FOR 'CONCRETE CURB, 12-IN. REINFORCED' AND 'CONCRETE CURB, 18-IN. REINFORCED'.

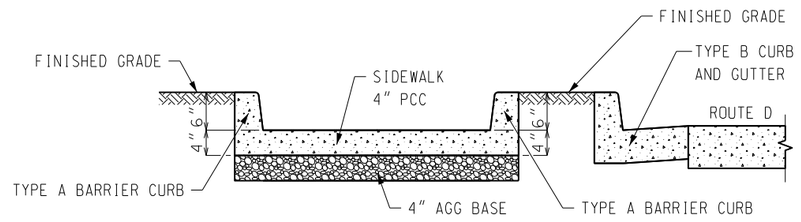
(4) THE MINIMUM EMBEDMENT DEPTH IN CONCRETE WITH F'C=4,000 PSI FOR THE RESIN ANCHOR SYSTEMS SHALL BE THAT REQUIRED TO MEET THE MINIMUM ULTIMATE PULLOUT STRENGTH IN ACCORDANCE WITH SEC 1039 BUT SHALL NOT BE LESS THAN 5 5/8 INCHES.



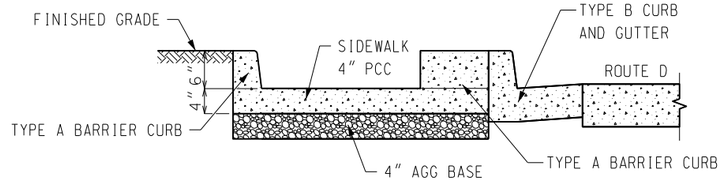
LOW VOLUME ENTRANCE SPECIAL MOUNTABLE CONCRETE CURB



HIGH VOLUME ENTRANCE SPECIAL MOUNTABLE CONCRETE CURB



DETAIL A



DETAIL B

ADA SIDEWALK AND CURB RAMP DETAILS

ROUTE D SPECIAL DETAIL
SHEET 02 OF 18

STATE OF MISSOURI
ALLISON M. BRUNER
NUMBER PE-2019005896
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED, AND DATED ELECTRONICALLY

Digitally signed by Allison Bruner
Date: 2025.12.19 09:38:39-06'00'

DATE PREPARED
12/17/2025

ROUTE	STATE
D	MO
DISTRICT	SHEET NO.
SL	48

COUNTY
ST. LOUIS

JOB NO.
JSL0186

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

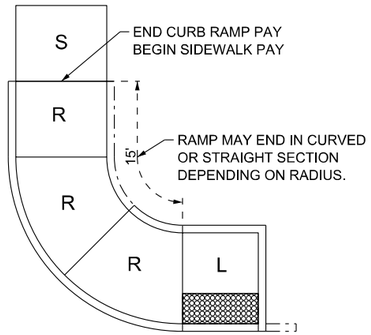
DESCRIPTION	DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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

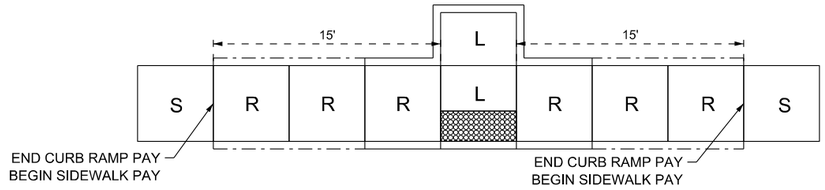
Burns & McDonnell Engineering Co., Inc.
425 South Woods Mill Road
Chesterfield, Missouri 63017
314-682-1500
Certificate of Authority
No. : 000165
BMcD Project No. 170361

PEDESTRIAN CURB RAMP PAY LIMITS

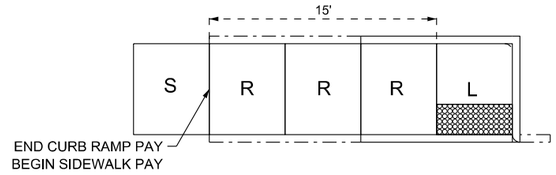


TYPE 1 PARALLEL

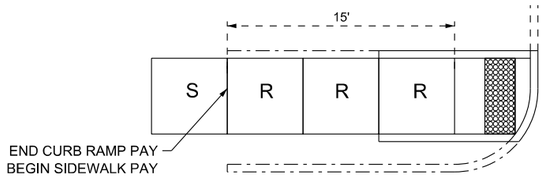
THE LENTH OF THIS RAMP SHALL BE MEASURED ON THE INSIDE/SHORT SIDE OF THE CURVE



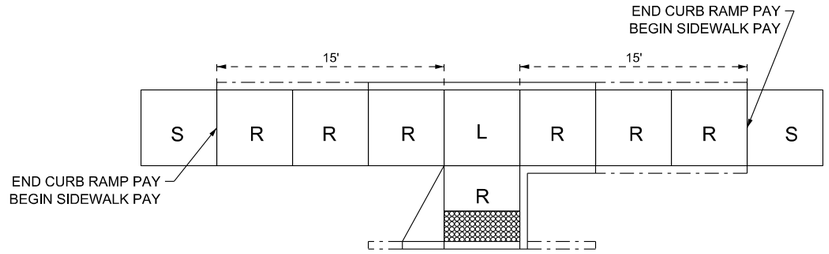
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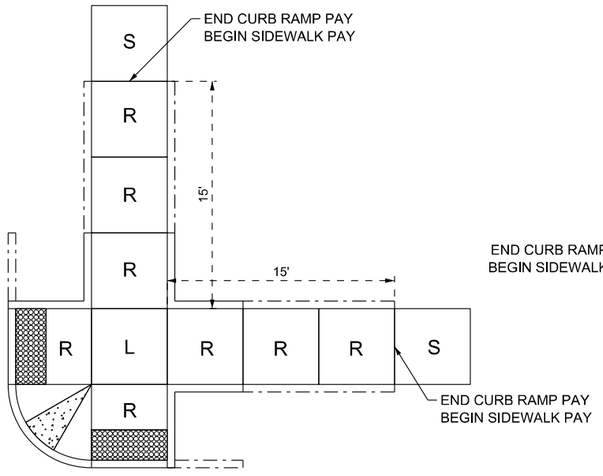
TYPE 3 PARALLEL



SMALL RADIUS PERPENDICULAR

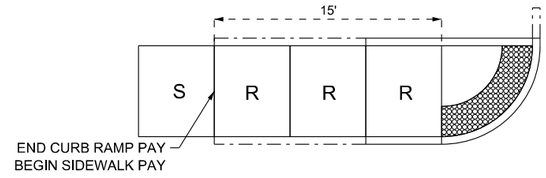


COMPOUND PERPENDICULAR

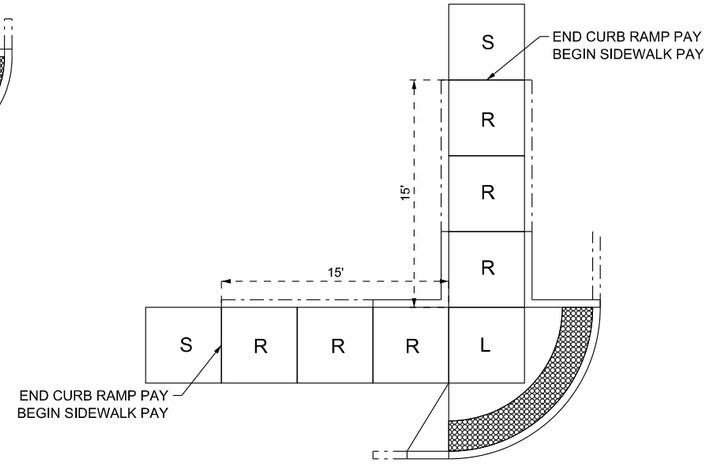


DUAL PERPENDICULAR

PAY AS 2 EACH



LARGE RADIUS PERPENDICULAR



BLENDED TRANSITION

PAY AS 2 EACH

Notes -

15 FEET OF WALKWAY SHALL BE INCLUDED IN CURB RAMP PAY, PER EACH, AS SHOWN.

L - LANDING OR CLEAR AREA FOR TURNING MOVEMENTS AND RESTS.
R - PAY AS RAMP
S - PAY AS SIDEWALK.

SEE JSP FOR OTHER INCIDENTALS INCLUDED IN CURB RAMP PAY.
SEE STANDARD PLANS 608 SERIES FOR DIMENTIONS, GRADES, AND OTHER REQUIREMENTS.
CONTRACTOR WILL HAVE OPTION TO CONSTRUCT RAMP WITH FLARE OR CURB FOR CERTAIN RAMPS ABOVE.

DISCLAIMER

THE PROFESSIONAL WHOSE SIGNATURE AND PERSONAL SEAL APPEAR HEREON ASSUMES RESPONSIBILITY ONLY FOR WHAT APPEARS ON THIS PAGE, AND DISCLAIMS (PURSUANT TO SECTION 327.411 RSMO) SPECIFICATION, ESTIMATES, REPORTS, OR OTHER DOCUMENTS OR INSTRUMENTS NOT SEALED BY THE UNDERSIGNED PROFESSIONAL RELATING TO OR INTENDED TO BE USED FOR ANY PART OR PARTS OF THE PROJECT TO WHICH THIS PAGE REFERS.

ROUTE D SPECIAL DETAIL
SHEET 03 OF 18

STATE OF MISSOURI
ALLISON M. BRUNER
NUMBER PE-2019005896
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED, AND DATED ELECTRONICALLY

Digitally signed by Allison Bruner
Date: 2025.12.19 09:38:39-06'00'

DATE PREPARED
12/17/2025

ROUTE	STATE
D	MO
DISTRICT	SHEET NO.
SL	49

COUNTY
ST. LOUIS

JOB NO.
JSL0186

CONTRACT ID.

PROJECT NO.

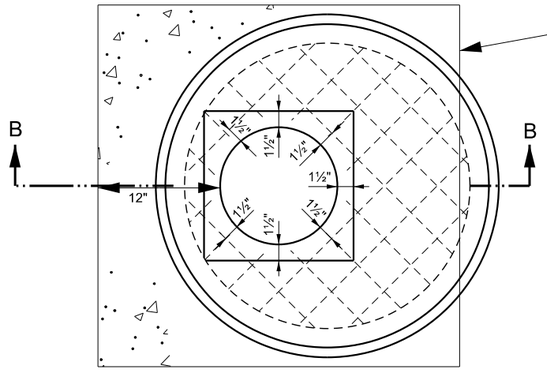
BRIDGE NO.

DESCRIPTION	DATE

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

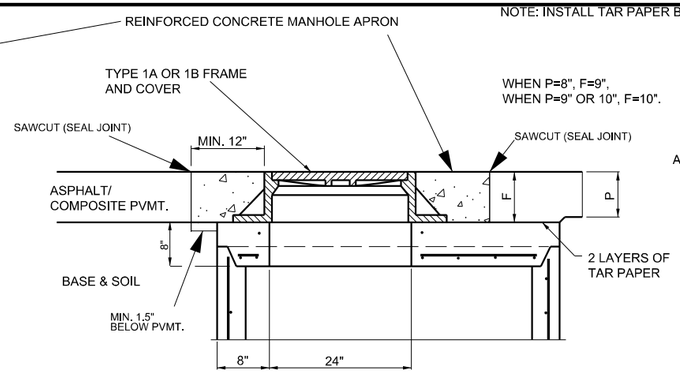
Burns & McDonnell Engineering Co., Inc.
425 South Woods Mill Road
Chesterfield, Missouri 63017
314-682-1500
Certificate of Authority
No. : 000165
BMcD Project No. 170361

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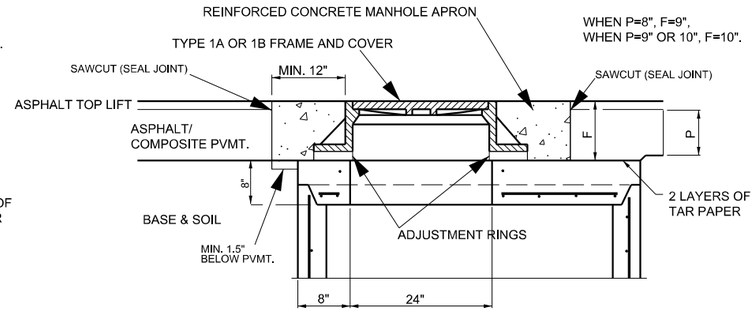
PLAN OF FLAT SLAB
MANHOLE TOP

NOTE: INSTALL TAR PAPER BETWEEN FRAME & COVER AND THE NEW CONCRETE MANHOLE APRON AS DIRECTED BY THE ENGINEER.



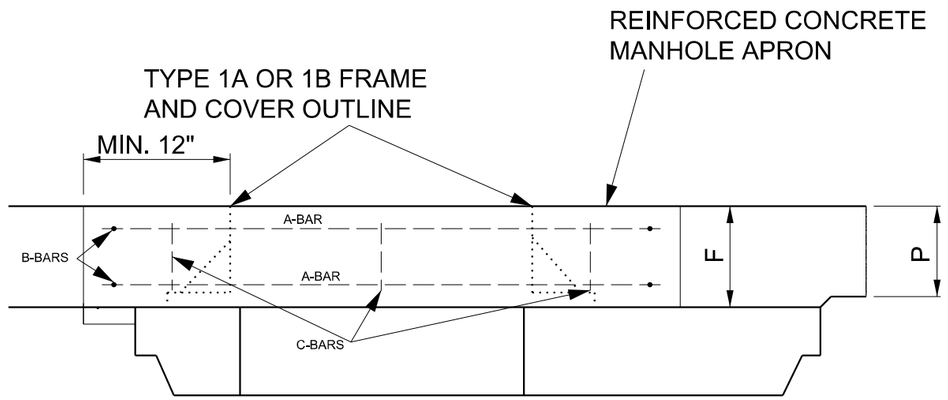
FLAT SLAB MANHOLE TOP (PAVED AREA)

SECTION B-B



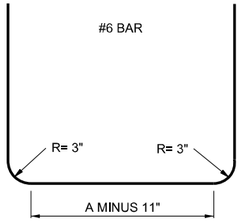
FLAT SLAB MANHOLE TOP (PAVED AREA) W/ ADJUSTMENT RINGS NEXT TO ASPHALT OVERLAY

SECTION B-B



SECTION B-B

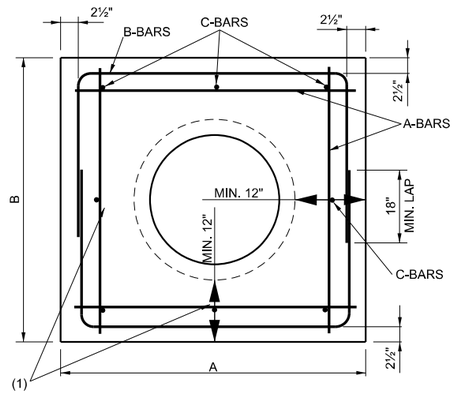
APRON REINFORCEMENT DETAIL



FOR MANHOLE APRON

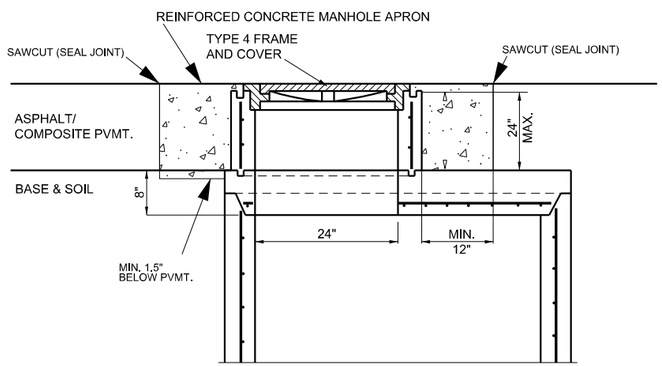
BENDING DIAGRAM FOR B-BARS

(1) PROVIDE MIN. 4.75" CLEARANCE
BETWEEN REINFORCING & MANHOLE FRAME & COVER
OR CIRCULAR PRECAST MANHOLE.



TOP VIEW OF MANHOLE APRON WITH REINFORCEMENT

NOTE: INSTALL 'C' BARS VERTICALLY INTO MANHOLE APRON CONCRETE. PROVIDE MIN. 1.5" CLEARANCE FROM TOP OF PAVEMENT & BOTTOM OF APRON. LENGTH OF 'C' BARS FOR 'F' DIMENSION SHALL BE 6". BAR LENGTH MAY VARY. 'C' BARS SHALL BE TIED TO 'A' REINFORCEMENT. 'B' BARS SHALL BE TIED TO 'A' REINFORCEMENT. 'A' BAR REINFORCEMENT SHALL HAVE 1.5" CLEARANCE TO EDGE OF APRON.



ALTERNATE MANHOLE TOP

GENERAL NOTES:

1. IF MANHOLE STRUCTURE DOES NOT HAVE FRAME & COVER BUT INSTEAD THE ENTIRE STRUCTURE REACHES THE TOP OF ROADWAY, THEN THIS SHEET SHALL NOT BE USED.

2. THIS SHEET SHALL TYPICALLY BE USED WHERE THE MANHOLE FRAME & COVER NEED TO BE RAISED TO GRADE, BUT CAN BE USED FOR NEW STRUCTURES AS WELL, PARTICULARLY FOR STRUCTURES INSTALLED WITHIN ASPHALT PAVEMENT.

3. THE CONTRACTOR SHALL USE 2 LAYERS OF 'A' & 'B' BAR REINFORCEMENT AS LONG AS 'F' THICKNESS NOTED ABOVE IS GREATER THAN OR EQUAL TO 9".

4. PAYMENT FOR REINFORCED CONCRETE MANHOLE APRON SHALL BE MADE PER EACH AND SHALL INCLUDE ALL NECESSARY REINFORCEMENT AND SAW CUTS OF EXISTING OR PROPOSED PAVEMENT.

5. MIN. DIMENSIONS OF 'A' AND 'B' IS THE FOLLOWING: 12" WALL + MANHOLE (INCLUDING WALL THICKNESS) + 12".

6. CONTRACTOR SHALL PROVIDE EITHER A SQUARE OR RECTANGLE SHAPED FULL DEPTH SAWCUT AROUND THE CONCRETE MANHOLE APRON AFTER CONSTRUCTION. THE MIN. WIDTH SHALL BE 12" BUT MAY VARY. THE CONTRACTOR SHALL NOT DO A CIRCULAR SAWCUT AROUND THE REINFORCED CONCRETE MANHOLE APRON.

7. CONCRETE USED FOR MANHOLE APRON SHALL BE THE SAME AS THAT USED FOR FULL DEPTH PAVEMENT REPAIRS. PLEASE SEE SECTION 613.10 OF THE STANDARD SPECIFICATIONS FOR ADDITIONAL DETAILS. CONTRACTOR MAY BE ALLOWED TO USE HIGH EARLY STRENGTH CONCRETE, WITH APPROVAL FROM THE ENGINEER.

8. THE CONTRACTOR SHALL RAISE THE MANHOLE FRAME & COVER USING CONCRETE RINGS AND APPROVED MECHANICAL ADJUSTMENT DEVICES TO FINISH GRADE MATCHING PROFILE AND CROSS SLOPE.

9. REINFORCING BARS IN PAVEMENT SHALL BE EPOXY COATED AND SECURELY TIED TOGETHER AND FASTENED TO AVOID ANY POSSIBLE DISPLACEMENT DURING THE PLACING OF CONCRETE.

10. NO DIRECT PAYMENT WILL BE MADE FOR PROVIDING, CUTTING OR BENDING REINFORCING STEEL.

11. THE CONTRACTOR SHALL SEAL JOINTS FORMED BETWEEN THE INTERFACE OF THE NEW APRON AND THE ASPHALT PAVEMENT ALONG WITH JOINTS CREATED BY THE OVERCUT OF SAWING FOR THE REMOVAL OF PAVEMENT. SEE THE JSP FOR ADDITIONAL INFORMATION.

STATE OF MISSOURI
ALLISON M. BRUNER
NUMBER PE-2019005896
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED, AND DATED ELECTRONICALLY
Digitally signed by Allison Bruner
Date: 2025.12.19 09:38:39-06'00'

DATE PREPARED 12/17/2025

ROUTE	STATE
D	MO
DISTRICT	SHEET NO.
SL	50

COUNTY: ST. LOUIS

JOB NO.: JSL0186

CONTRACT ID.

PROJECT NO.

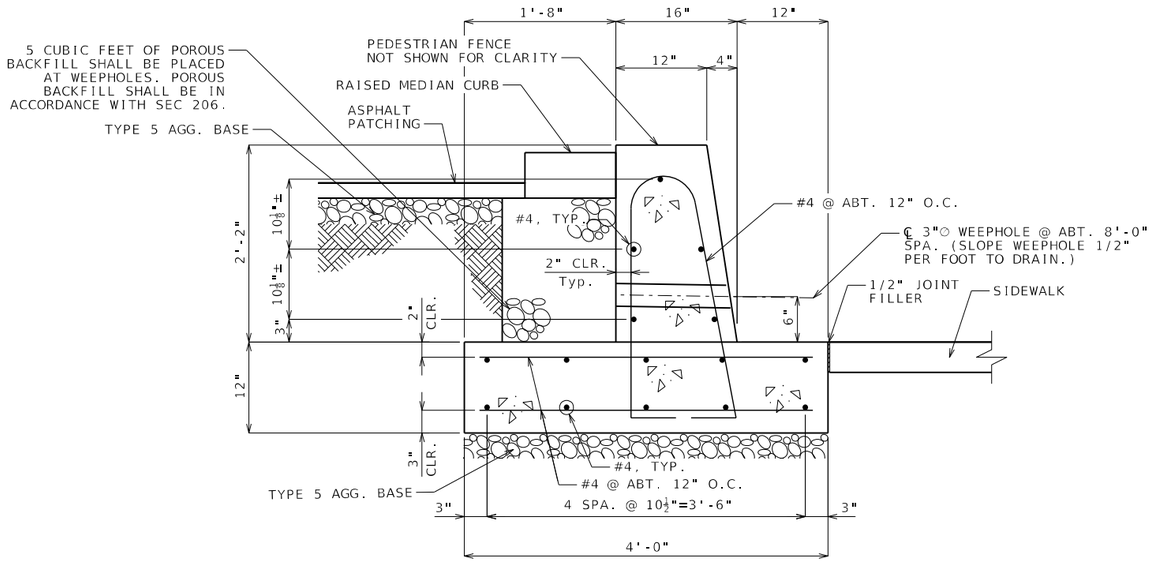
BRIDGE NO.

DESCRIPTION | DATE

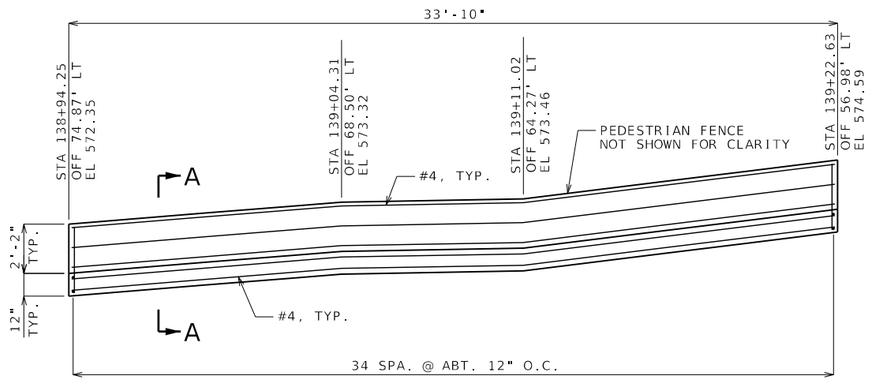
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

Burns & McDonnell Engineering Co., Inc.
425 South Woods Mill Road
Chesterfield, Missouri 63017
314-682-1500
Certificate of Authority
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BMcD Project No. 170361

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SECTION A-A



WALL 26-SL0186-001 ELEVATION

NOTES:

STATIONS AND OFFSETS SHOWN ARE AT THE BACK FACE OF RETAINING WALL AND TIED TO CENTERLINE OF ROUTE D.

DIMENSIONS SHOWN ARE HORIZONTAL AND MEASURED ALONG THE BACK FACE OF RETAINING WALL.

ALL EXPOSED EDGES OF RETAINING WALL AND SIDEWALK SHALL HAVE EITHER A 1/2" RADIUS OR A 3/8" BEVEL, UNLESS OTHERWISE NOTED.

PAYMENT FOR ALL EXCAVATION, FILL, POROUS BACKFILL, WEEPHOLES, CONCRETE, AND REINFORCEMENT FOR RETAINING WALL, COMPLETE-IN-PLACE, WILL BE CONSIDERED COMPLETELY COVERED BY THE CONTRACT UNIT PRICE FOR CONCRETE TRAFFIC BARRIER, TYPE D (RETAINING WALL) PER LINEAR FOOT.

MEASUREMENT OF RETAINING WALL IS TO THE NEAREST LINEAR FOOT FOR EACH LOCATION, MEASURED HORIZONTALLY ALONG THE BACK FACE OF RETAINING WALL FROM BEGINNING OF RETAINING WALL TO END OF RETAINING WALL.

RETAINING WALL SHALL BE CAST-IN-PLACE ONLY.

MINIMUM CLEARANCE FOR REINFORCING STEEL IS 2" UNLESS NOTED OTHERWISE.

CONCRETE IN RETAINING WALL SHALL BE CLASS B-1.

FOR GENERAL NOTES, DETAILS, AND MEMBER SIZES COVERING PEDESTRIAN FENCES, SEE SHEET NO. 52.

BAR SPLICES SHALL BE A MINIMUM OF 24 TIMES THE NOMINAL DIAMETER OF THE BAR.

STATE OF MISSOURI
KEVIN P. HEFFERN
NUMBER PE-2007002795
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY

DATE PREPARED
12/17/2025

ROUTE	STATE
D	MO
DISTRICT	SHEET NO.
SL	51

COUNTY
ST. LOUIS

JOB NO.
JSL0186

CONTRACT ID.

PROJECT NO.

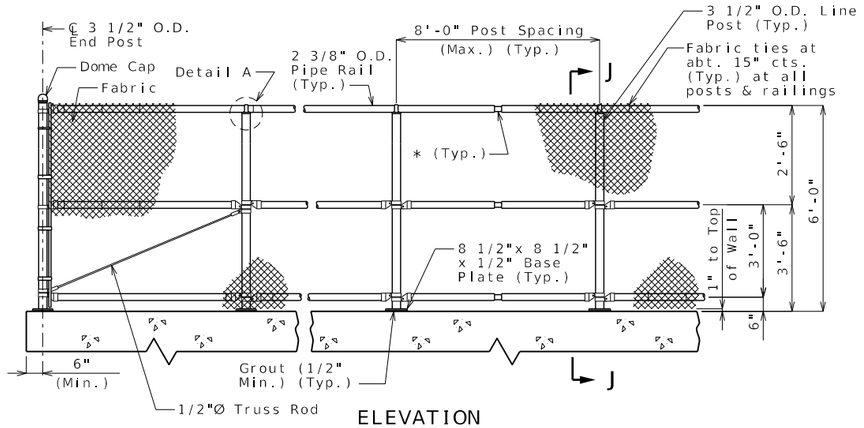
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DESCRIPTION	DATE

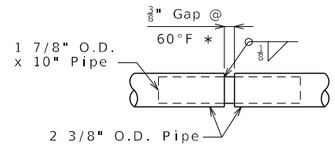
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

Burns & McDonnell Engineering Co., Inc.
425 South Woods Mill Road
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314-682-1500
Certificate of Authority
No. : 000165
BMcD Project No. 170361

ROUTE D SPECIAL
SHEET 05 OF 18



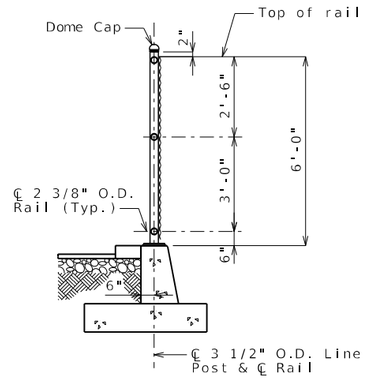
ELEVATION



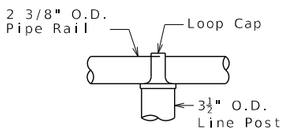
TYPICAL RAIL DETAIL AT SPLICE GAP

Note: At the contractor's option, manufacturer-approved expansion coupling may be used in lieu of detail shown. No additional payment will be made for this substitution.

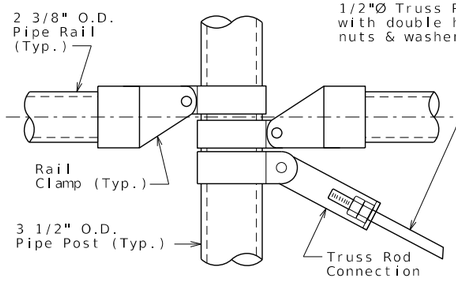
∗ 3/8" Gap for splice at about 30'-0" centers with at least one splice gap between pull or end posts.



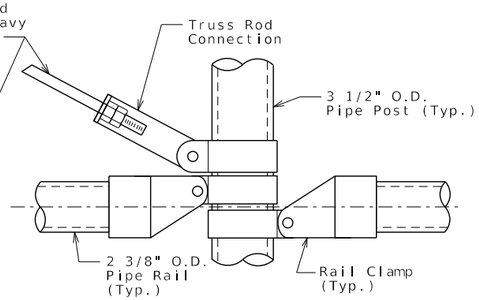
SECTION J-J



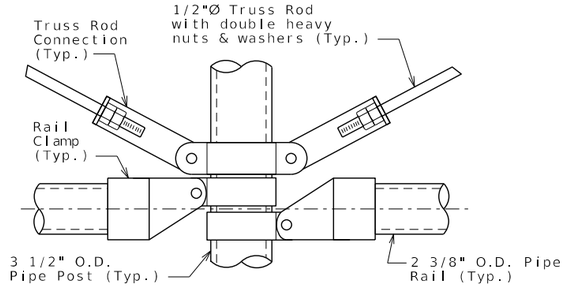
DETAIL A



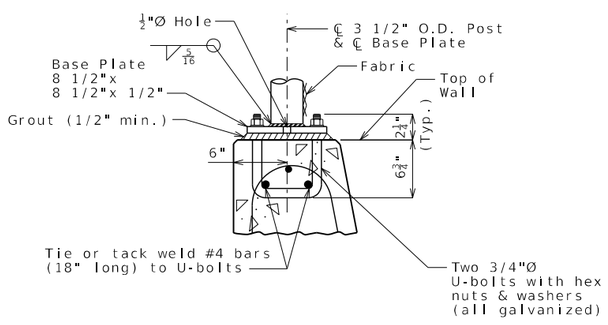
UPPER TRUSS ROD CONNECTION DETAIL



LOWER TRUSS ROD CONNECTION DETAIL

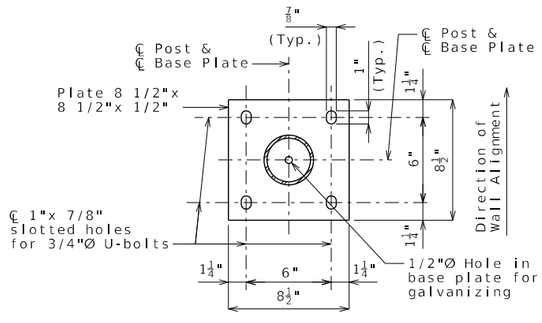


DUAL LOWER TRUSS ROD CONNECTION DETAIL



POST CONNECTION (TYPICAL)

Note: Base plate shall be welded to the post prior to galvanizing the post with base plate.



PLAN OF BASE PLATE

GENERAL NOTES:

Pedestrian chain link fence shall be in accordance with Sec 1043 except all fabric shall have the top and bottom edges knuckled and pipe members shall be in accordance with ASTM F1043, high strength grade (minimum yield = 50 ksi) heavy industrial steel pipe Group 1A.

All posts shall be vertical. Grout shall be placed under the post base plates in accordance with Sec 1066.

Payment for furnishing, galvanizing and erecting the fence and frame complete in place will be considered completely covered by the contract unit price for Chain-Link Fence (Retaining Walls) per linear foot.

Dimensions of pedestrian chain link fence are measured horizontally.

The maximum spacing allowed between pull posts and end posts is 100 feet. Post brace and 1/2-inch diameter truss rod are required for panels adjacent to pull post and end posts only. Connect the lower end of truss rod to bottom of pull posts and end posts to which the stretcher bar is attached.

Rail clamps, dome cap, bands, tie wires, stretcher bars and truss rod connections shall be in accordance with the manufacturer's recommendations. The truss rod and truss rod connections shall have a minimum capacity of 2000 pounds. Dome cap shall fit tightly.

Expansion joints shall be placed in the horizontal pieces at not more than 30-foot centers with a minimum gap of 3/8 inch at 60 degrees F.

Steel for truss rods shall be ASTM A709 Grade 36. Steel for base plates shall be ASTM A709 Grade 50.

Chain-Link Fence (Retaining Walls) will be measured to the nearest linear foot for each structure, measured along the centerline fence from end of fence to end of fence.

Contractor shall submit complete detailed shop drawings in accordance with Sec 1080.

All base plates, U-bolts, hex nuts and washers shall be galvanized in accordance with ASTM A123 and Sec 1081.

U-bolts shall be ASTM F1554 Grade 36.

Chain link wire fabric shall be 9 gage minimum, 2-inch diamond mesh.

For details of retaining wall, see Sheet No. 51.

The chain link fence shall be built in accordance with Sec 607 & Sec 1043.

PEDESTRIAN CHAIN LINK FENCE ON RETAINING WALL

Note: This drawing is not to scale. Follow dimensions.

ROUTE D SPECIAL
SHEET 06 OF 18

STATE OF MISSOURI
KEVIN P. HEFFERN
NUMBER PE-2007002795
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY

DATE PREPARED
12/17/2025

ROUTE	STATE
D	MO
DISTRICT	SHEET NO.
SL	52

COUNTY
ST. LOUIS

JOB NO.
JSL0186

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

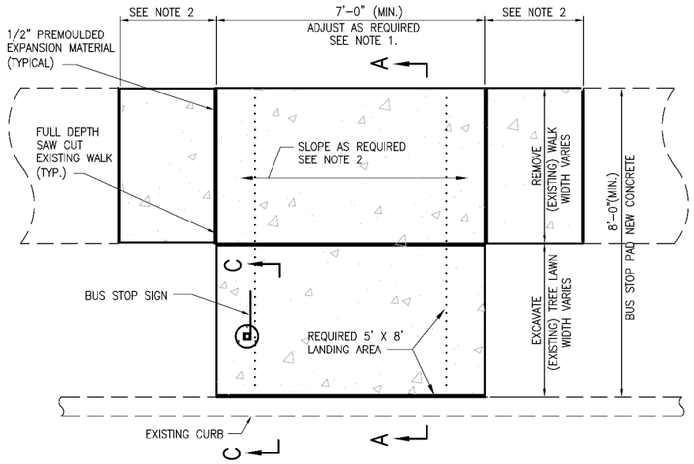
DESCRIPTION | DATE

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

Burns & McDonnell Engineering Co., Inc.
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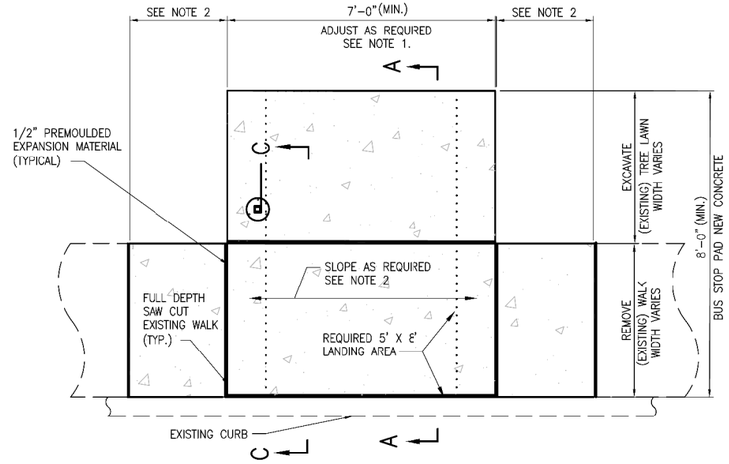
BMcD Project No. 170361

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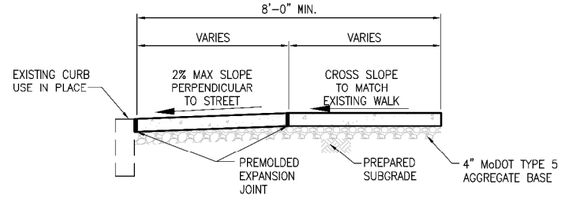
TYPE 1 IMPROVEMENT

NONE



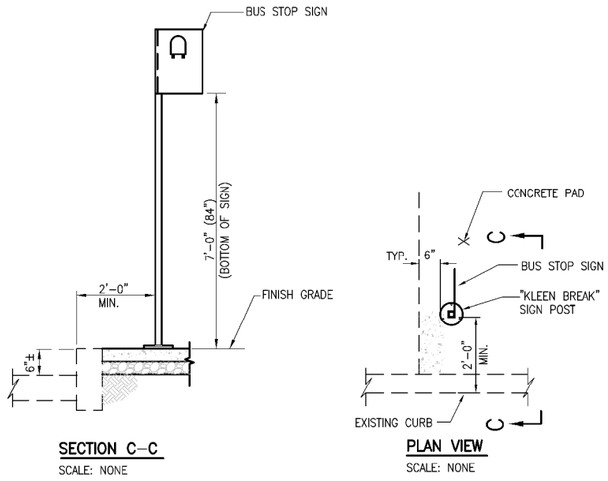
TYPE 2 IMPROVEMENT

NONE



SECTION A–A

NONE



SECTION C–C

SCALE: NONE

PLAN VIEW

SCALE: NONE

TYP. SIGN & POST DETAIL

SCALE: NONE

GENERAL NOTES:

1. NEW CONCRETE BUS STOP PAD:

   1A. DIMENSIONS: BUS STOP BOARDING AND ALIGHTING AREAS SHALL PROVIDE A CLEAR LENGTH OF 8'–0" MINIMUM, MEASURED PERPENDICULAR TO THE CURB OR VEHICLE ROADWAY EDGE, AND 7'–0" MINIMUM MEASURED PARALLEL TO THE VEHICLE ROADWAY.

   1B. SLOPE: PARALLEL TO THE ROADWAY, THE SLOPE OF THE BUS STOP BOARDING AND ALIGHTING AREA SHALL BE THE SAME AS THE ROADWAY, TO THE MAXIMUM EXTENT PRACTICABLE. PERPENDICULAR TO THE ROADWAY, THE SLOPE OF THE BUS STOP BOARDING AND ALIGHTING AREA SHALL NOT BE STEEPER THAN 2% MAX.

2. MODIFY EXISTING SIDEWALK SLOPE AS REQUIRED TO COMPLY WITH LOCAL CODES TO MEET WITH NEW BUS STOP PAD TO NEAREST SIDEWALK JOINT.
3. ALL FULL DEPTH SAW CUTS TO BE MADE AT EXISTING SIDEWALK JOINTS.
4. COMPLETE TOP SOIL BACKFILL, COMPACTION, FINISH GRADING, AND SEEDING/SODDING.
5. DO NOT PLACE CONCRETE ANCHORS FOR BENCH OR SIGN POST LESS THAN SIX (6) INCHES FROM EDGE OF CONCRETE.
6. ALL NEW CONCRETE SIDEWALK SLABS WILL BE 4" THICK, BUS STOP PADS 6" THICK WITH 4" MoDOT TYPE 5 AGGREGATE BASE.
7. SEE ST. LOUIS COUNTY STANDARD DRAWING C902.20 "METROBUS STOP/NO PARKING SIGN INSTALLATION" FOR SIGN PLACEMENT.

REV	DATE	BY	APP.	DESCRIPTION

DESIGNED:
DRAWN:
CHECKED:
APPROVED:
DATE:

DATE:

DISCLAIMER OF RESPONSIBILITY

I hereby specify that the documents intended to be authenticated by my seal are limited to this sheet, and I hereby disclaim any responsibility for all other Drawings, Specifications, Estimates, Reports or other documents or instruments relating to or intended to be used for any part of the architectural or engineering project or survey.

CITY OF ST. LOUIS ADA
METROBUS STOP
ENHANCEMENT
IMPROVEMENT DETAILS

A Bi-State Development Enterprise

Metro®
211 N. Broadway | Suite 700 | St. Louis, MO | 63102-2595
314 - 982 - 1400 | metrostlouis.org

ADA ENHANCEMENT
METRO BUS STOP
DETAILS

REFERENCE
04/15/19
CONTRACT NO. UNASSIGNED
FILENAME CTYSTL-ADA BUS STOP 1
SHEET NO. DETAIL "A-1"

ROUTE D SPECIAL
SHEET 07 OF 18

ALLISON M. BRUNER
NUMBER
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STATE OF MISSOURI
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SL	53

COUNTY
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BRIDGE NO.

DESCRIPTION

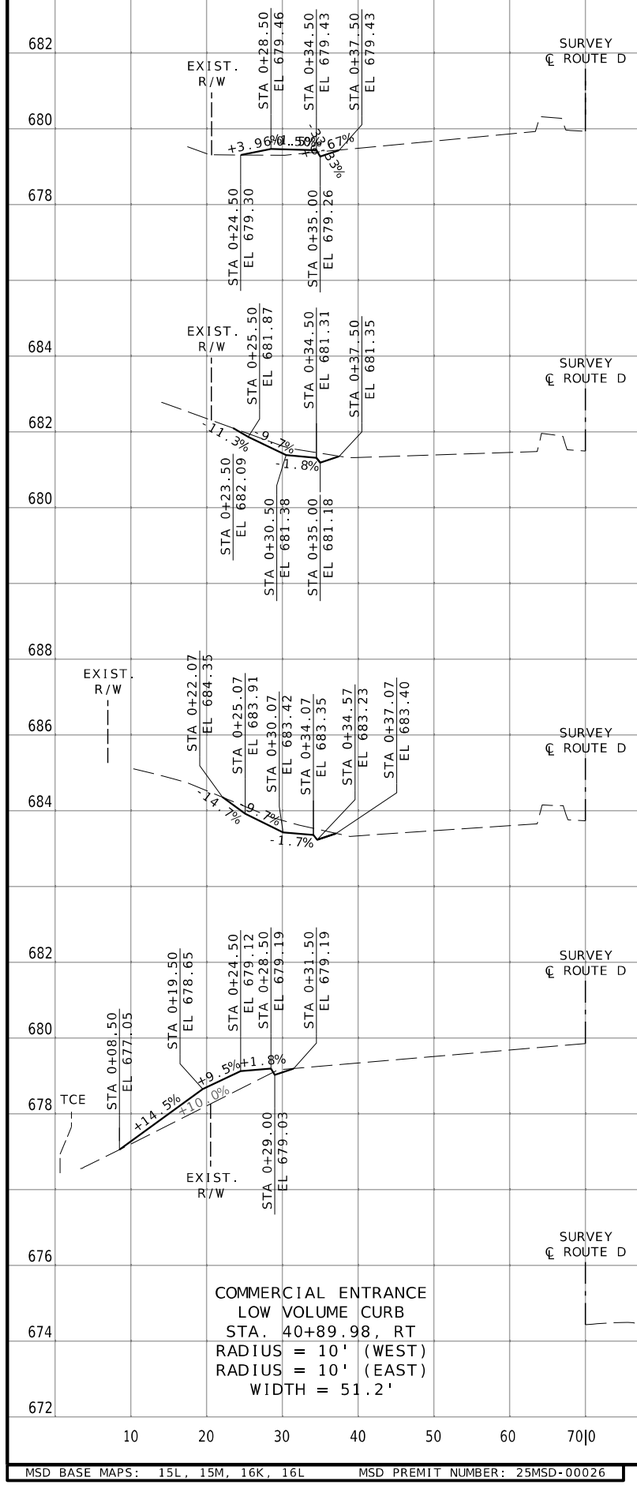
DATE

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

Burns & McDonnell Engineering Co., Inc.
425 South Woods Mill Road
Chesterfield, Missouri 63017
314-682-1500
Certificate of Authority
No. : 000165

BMcD Project No. 170361

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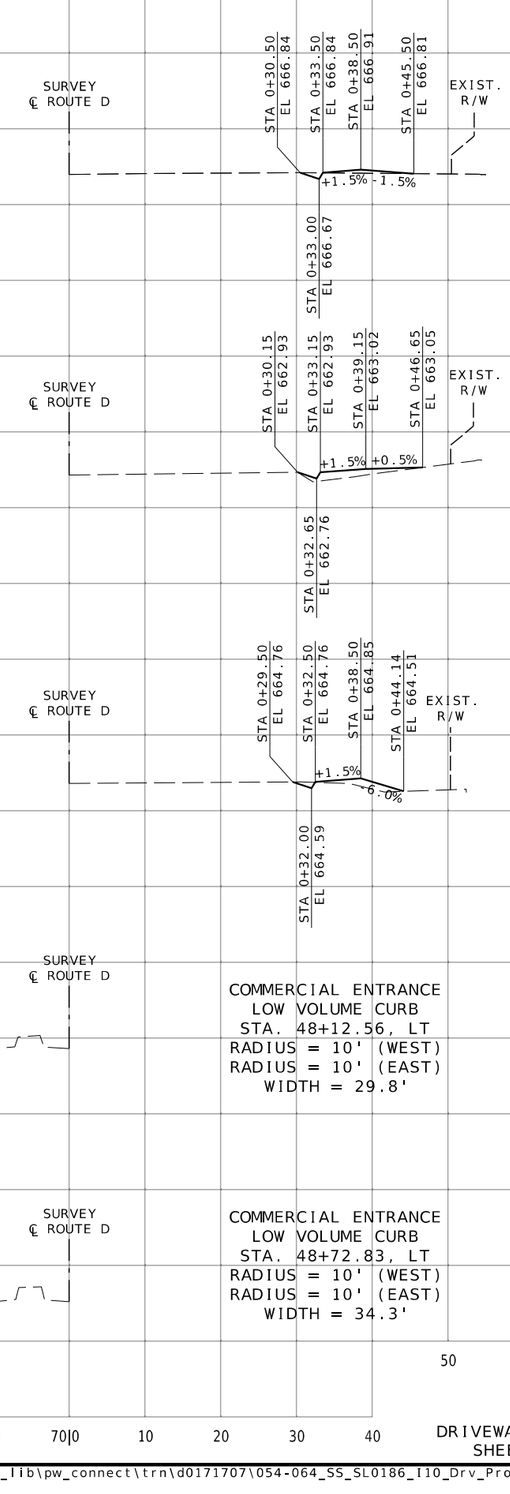
COMMERCIAL ENTRANCE
LOW VOLUME CURB
STA. 35+81.99, LT
RADIUS = 10' (WEST)
RADIUS = 5' (EAST)
WIDTH = 23.6'

COMMERCIAL ENTRANCE
HIGH VOLUME CURB
STA. 36+24.61, LT
RADIUS = 5' (WEST)
RADIUS = 10' (EAST)
WIDTH = 31.9'

COMMERCIAL ENTRANCE
HIGH VOLUME CURB
STA. 37+19.63, LT
RADIUS = 10' (WEST)
RADIUS = 10' (EAST)
WIDTH = 30.2'

COMMERCIAL ENTRANCE
LOW VOLUME CURB
STA. 39+82.78, LT
RADIUS = 10' (WEST)
RADIUS = 10' (EAST)
WIDTH = 37.8'

COMMERCIAL ENTRANCE
LOW VOLUME CURB
STA. 40+89.98, RT
RADIUS = 10' (WEST)
RADIUS = 10' (EAST)
WIDTH = 51.2'



COMMERCIAL ENTRANCE
LOW VOLUME CURB
STA. 42+83.43, RT
RADIUS = 10' (WEST)
RADIUS = 10' (EAST)
WIDTH = 31.6'

COMMERCIAL ENTRANCE
LOW VOLUME CURB
STA. 46+10.77, RT
RADIUS = 10' (WEST)
RADIUS = 10' (EAST)
WIDTH = 33.1'

COMMERCIAL ENTRANCE
LOW VOLUME CURB
STA. 47+76.23, RT
RADIUS = 10' (WEST)
RADIUS = 10' (EAST)
WIDTH = 20.0'

COMMERCIAL ENTRANCE
LOW VOLUME CURB
STA. 48+12.56, LT
RADIUS = 10' (WEST)
RADIUS = 10' (EAST)
WIDTH = 29.8'

COMMERCIAL ENTRANCE
LOW VOLUME CURB
STA. 48+72.83, LT
RADIUS = 10' (WEST)
RADIUS = 10' (EAST)
WIDTH = 34.3'

ROUTE D
DRIVEWAY PROFILES
SHEET 08 OF 18

STATE OF MISSOURI
ALLISON M. BRUNER
NUMBER PE-2019005896
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED, AND DATED ELECTRONICALLY

Digitally signed by Allison Bruner
Date: 2025.12.19 09:38:39-06'00'

DATE PREPARED
12/17/2025

ROUTE	STATE
D	MO
DISTRICT	SHEET NO.
SL	54

COUNTY
ST. LOUIS

JOB NO.
JSL0186

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)

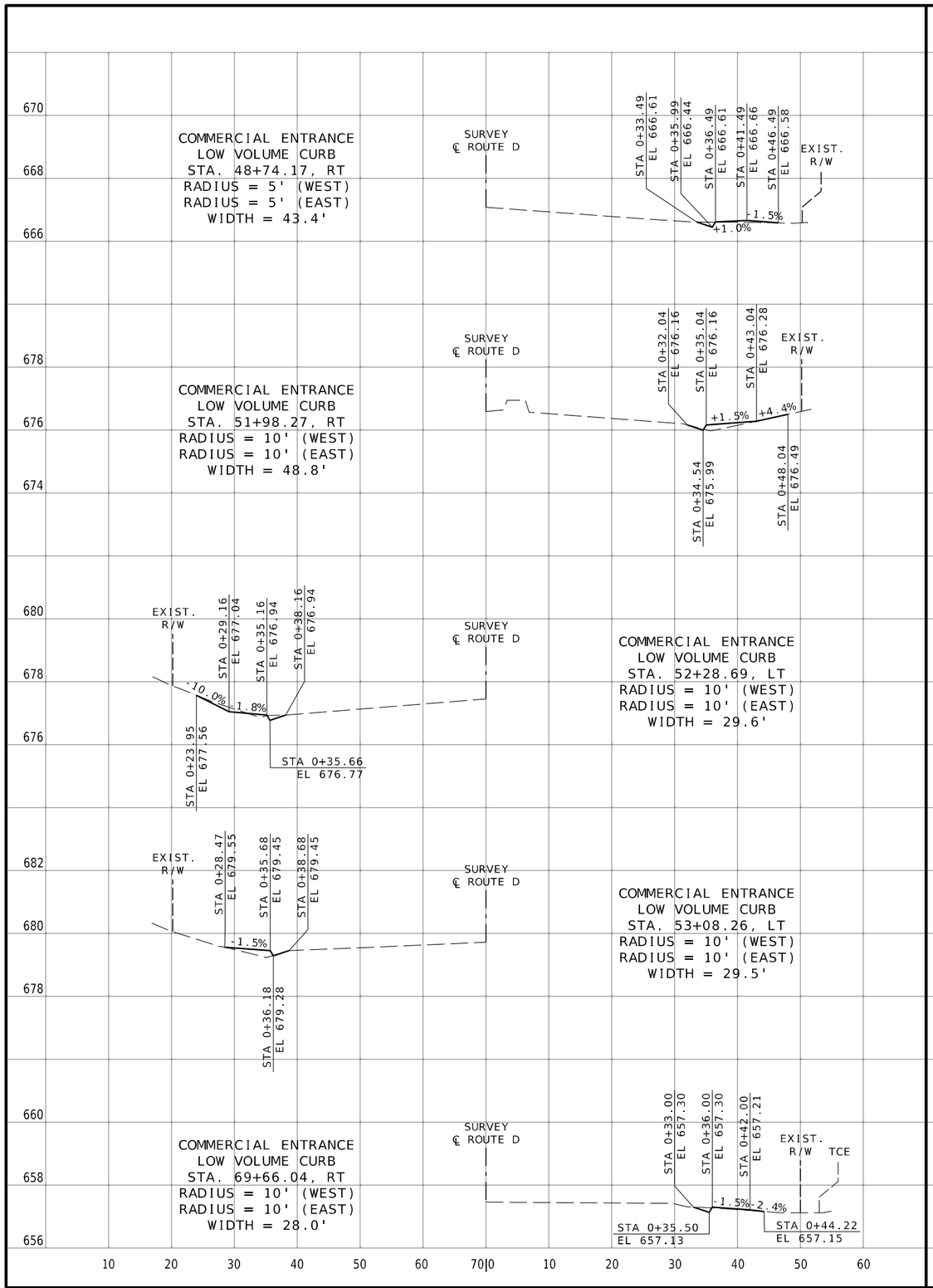
Burns & McDonnell Engineering Co., Inc.
425 South Woods Mill Road
Chesterfield, Missouri 63017
314-682-1500

Certificate of Authority
No.: 000165

BMcD Project No. 170361

MSD BASE MAPS: 15L, 15M, 16K, 16L MSD PERMIT NUMBER: 25MSD-00026

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ROUTE D
DRIVEWAY PROFILES
SHEET 09 OF 18

MSD BASE MAPS: 15L, 15M, 16K, 16L MSD PERMIT NUMBER: 25MSD-00026

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STATE OF MISSOURI
ALLISON M. BRUNER
NUMBER PE-2019005896
PROFESSIONAL ENGINEER

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DATE PREPARED
12/17/2025

ROUTE	STATE
D	MO
DISTRICT	SHEET NO.
SL	55

COUNTY
ST. LOUIS

JOB NO.
JSL0186

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION	DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

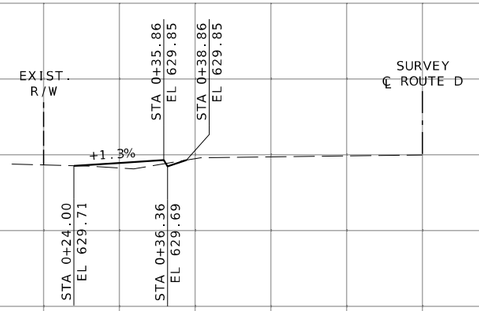
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

Burns & McDonnell Engineering Co., Inc.

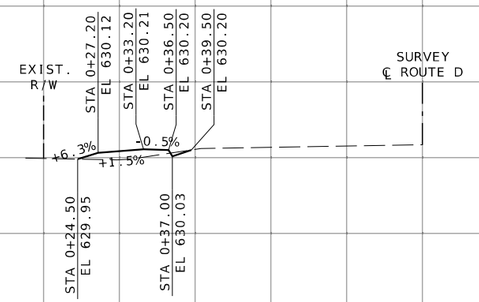
425 South Woods Mill Road
Chesterfield, Missouri 63017
314-682-1500

Certificate of Authority
No. : 000165

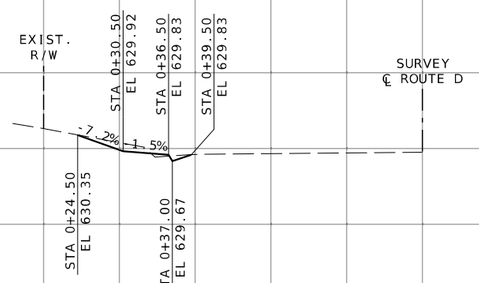
BMcD Project No. 170361



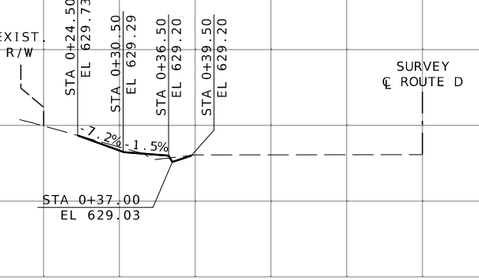
COMMERCIAL ENTRANCE
LOW VOLUME CURB
STA. 104+81.56, LT
RADIUS = 10' (WEST)
RADIUS = 10' (EAST)
WIDTH = 34.1'



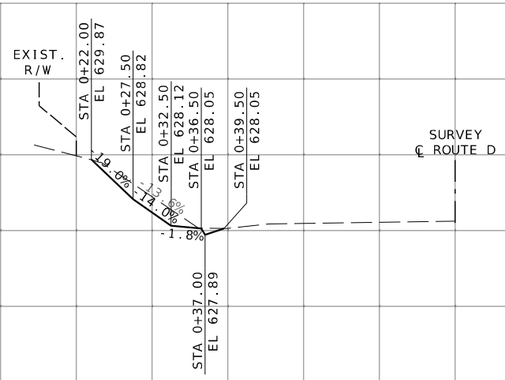
COMMERCIAL ENTRANCE
LOW VOLUME CURB
STA. 105+64.28, LT
RADIUS = 10' (WEST)
RADIUS = 10' (EAST)
WIDTH = 77.5'



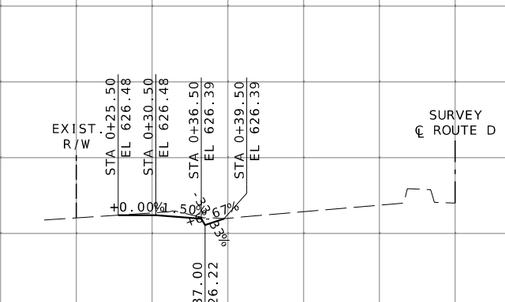
COMMERCIAL ENTRANCE
LOW VOLUME CURB
STA. 106+59.94, LT
RADIUS = 10' (WEST)
RADIUS = 10' (EAST)
WIDTH = 20.0'



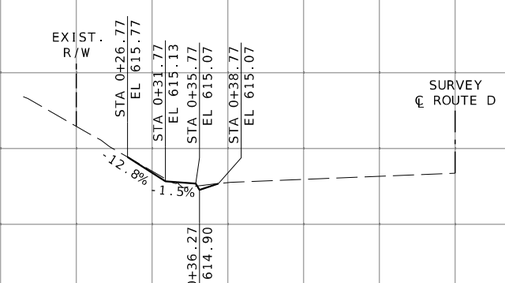
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LOW VOLUME CURB
STA. 107+22.12, LT
RADIUS = 10' (WEST)
RADIUS = 10' (EAST)
WIDTH = 20.0'



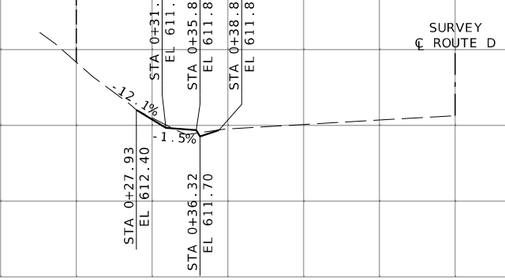
COMMERCIAL ENTRANCE
LOW VOLUME CURB
STA. 107+81.93, LT
RADIUS = 10' (WEST)
RADIUS = 10' (EAST)
WIDTH = 36.5'



COMMERCIAL ENTRANCE
LOW VOLUME CURB
STA. 108+54.56, LT
RADIUS = 10' (WEST)
RADIUS = 10' (EAST)
WIDTH = 15.8'



RESIDENTIAL ENTRANCE
LOW VOLUME CURB
STA. 111+31.43, LT
RADIUS = 10' (WEST)
RADIUS = 10' (EAST)
WIDTH = 21.5'



RESIDENTIAL ENTRANCE
LOW VOLUME CURB
STA. 111+88.86, LT
RADIUS = 10' (WEST)
RADIUS = 10' (EAST)
WIDTH = 11.3'

10 20 30 40 50 60 70|0 10 20 30 40 50 60

10 20 30 40 50 60 70|0 10 20 30 40

ROUTE D
DRIVEWAY PROFILES
SHEET 10 OF 18

ALLISON M. BRUNER
NUMBER PE-2019005896
STATE OF MISSOURI
PROFESSIONAL ENGINEER

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Digitally signed by Allison Bruner
Date: 2025.12.19 09:38:40-06'00'

DATE PREPARED
12/17/2025

ROUTE	STATE
D	MO
DISTRICT	SHEET NO.
SL	56

COUNTY
ST. LOUIS

JOB NO.
JSL0186

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION	DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

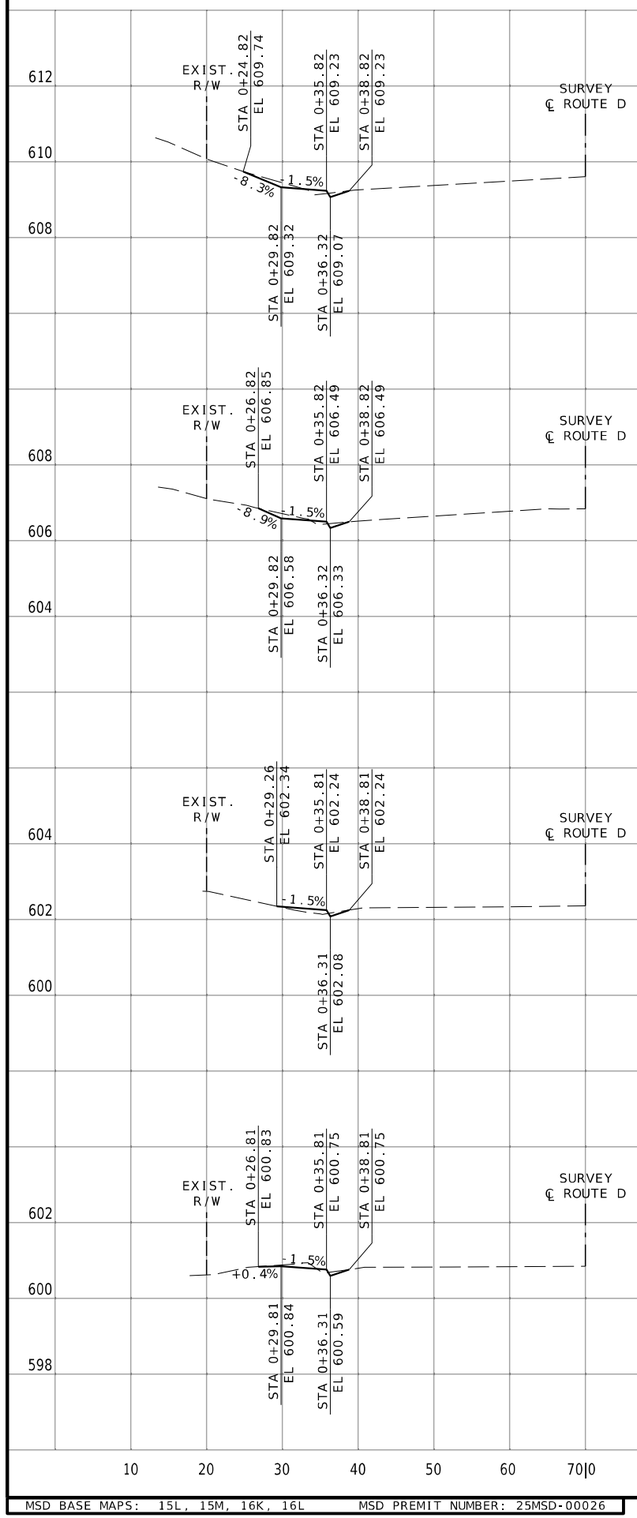
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

Burns & McDonnell Engineering Co., Inc.
425 South Woods Mill Road
Chesterfield, Missouri 63017
314-682-1500
Certificate of Authority
No. : 000165

BMcD Project No. 170361

MSD BASE MAPS: 15L, 15M, 16K, 16L MSD PERMIT NUMBER: 25MSD-00026

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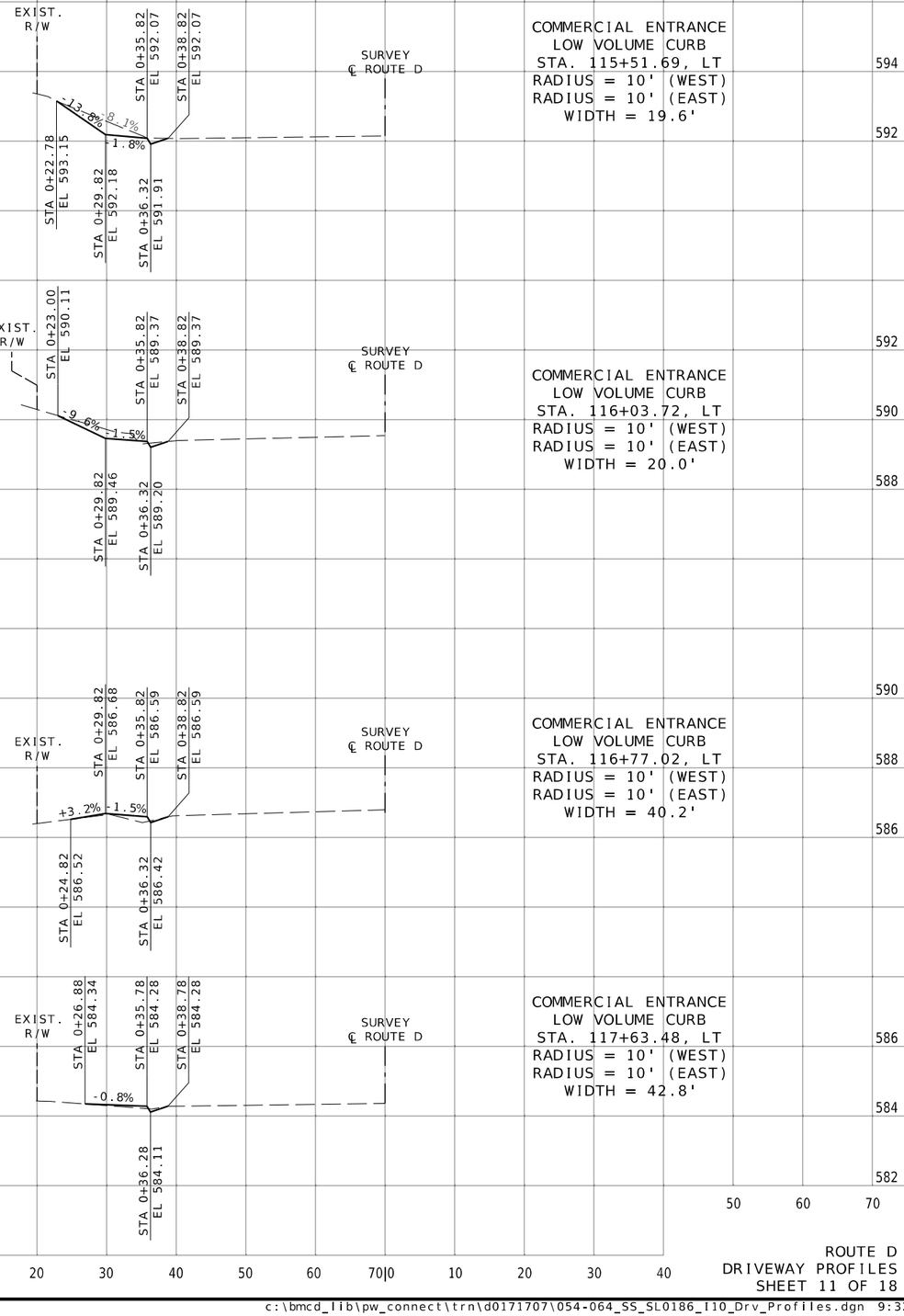


RESIDENTIAL ENTRANCE
LOW VOLUME CURB
STA. 112+37.47, LT
RADIUS = 10' (WEST)
RADIUS = 15' (EAST)
WIDTH = 12.1'

RESIDENTIAL ENTRANCE
LOW VOLUME CURB
STA. 112+87.39, LT
RADIUS = 15' (WEST)
RADIUS = 15' (EAST)
WIDTH = 11.1'

RESIDENTIAL ENTRANCE
LOW VOLUME CURB
STA. 113+63.78, LT
RADIUS = 10' (WEST)
RADIUS = 7' (EAST)
WIDTH = 16.9'

RESIDENTIAL ENTRANCE
LOW VOLUME CURB
STA. 113+91.29, LT
RADIUS = 7' (WEST)
RADIUS = 10' (EAST)
WIDTH = 10.8'



COMMERCIAL ENTRANCE
LOW VOLUME CURB
STA. 115+51.69, LT
RADIUS = 10' (WEST)
RADIUS = 10' (EAST)
WIDTH = 19.6'

COMMERCIAL ENTRANCE
LOW VOLUME CURB
STA. 116+03.72, LT
RADIUS = 10' (WEST)
RADIUS = 10' (EAST)
WIDTH = 20.0'

COMMERCIAL ENTRANCE
LOW VOLUME CURB
STA. 116+77.02, LT
RADIUS = 10' (WEST)
RADIUS = 10' (EAST)
WIDTH = 40.2'

COMMERCIAL ENTRANCE
LOW VOLUME CURB
STA. 117+63.48, LT
RADIUS = 10' (WEST)
RADIUS = 10' (EAST)
WIDTH = 42.8'

ROUTE D
DRIVEWAY PROFILES
SHEET 11 OF 18

MSD BASE MAPS: 15L, 15M, 16K, 16L MSD PERMIT NUMBER: 25MSD-00026

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STATE OF MISSOURI
ALLISON M. BRUNER
NUMBER PE-2019005896
PROFESSIONAL ENGINEER

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Date: 2025.12.19 09:38:40-06'00'

DATE PREPARED
12/17/2025

ROUTE	STATE
D	MO
DISTRICT	SHEET NO.
SL	57

COUNTY
ST. LOUIS

JOB NO.
JSL0186

CONTRACT ID.

PROJECT NO.

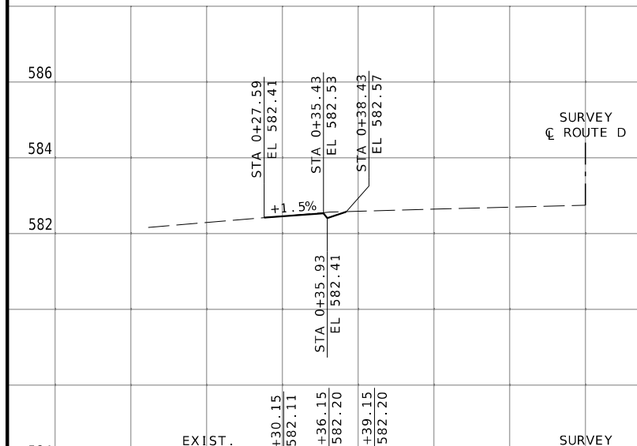
BRIDGE NO.

DATE	DESCRIPTION

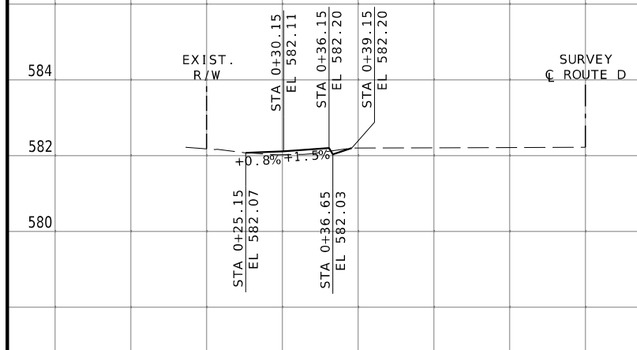
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

Burns & McDonnell Engineering Co., Inc.
425 South Woods Mill Road
Chesterfield, Missouri 63017
314-682-1500
Certificate of Authority
No. : 000165

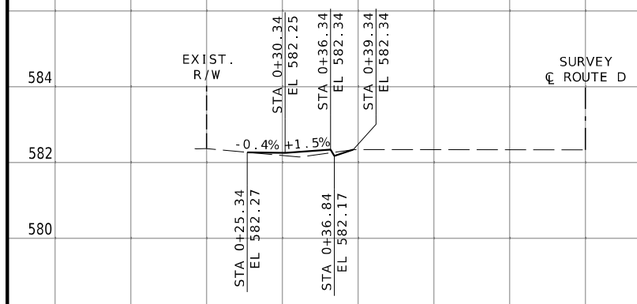
BMcD Project No. 170361



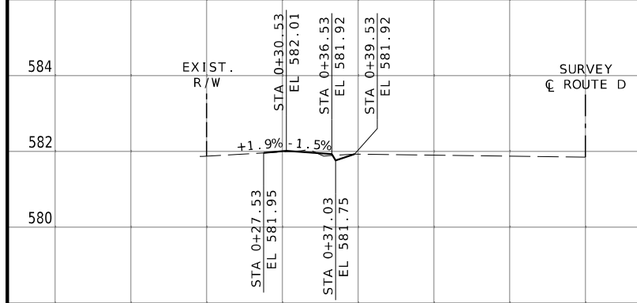
PAGEWOOD AVE ENTRANCE
HIGH VOLUME CURB
STA. 118+45.27, LT
RADIUS = 25' (WEST)
RADIUS = 25' (EAST)
WIDTH = 60.2'



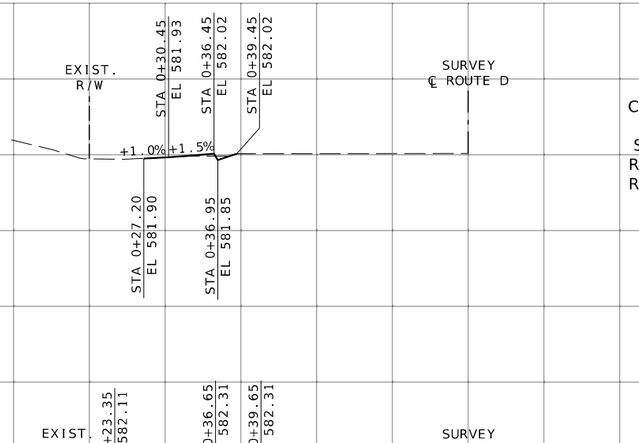
COMMERCIAL ENTRANCE
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STA. 119+97.11, LT
RADIUS = 12' (WEST)
RADIUS = 25' (EAST)
WIDTH = 26.7'



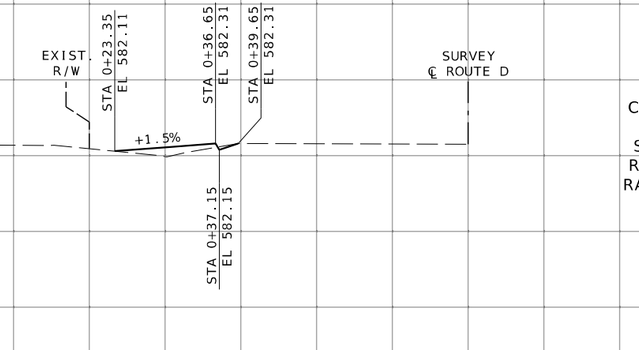
COMMERCIAL ENTRANCE
LOW VOLUME CURB
STA. 120+79.96, LT
RADIUS = 10' (WEST)
RADIUS = 10' (EAST)
WIDTH = 22.8'



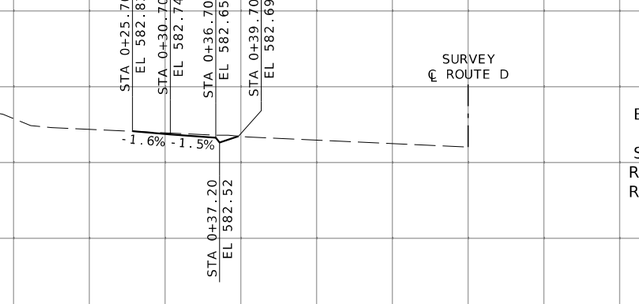
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LOW VOLUME CURB
STA. 121+31.35, LT
RADIUS = 10' (WEST)
RADIUS = 10' (EAST)
WIDTH = 18.1'



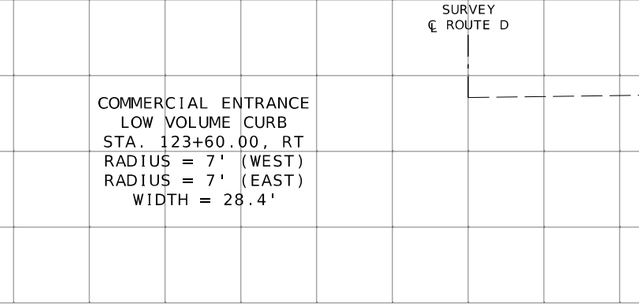
COMMERCIAL ENTRANCE
LOW VOLUME CURB
STA. 121+97.64, LT
RADIUS = 10' (WEST)
RADIUS = 10' (EAST)
WIDTH = 40.0'



COMMERCIAL ENTRANCE
LOW VOLUME CURB
STA. 122+55.02, LT
RADIUS = 10' (WEST)
RADIUS = N.A. (EAST)
WIDTH = 30.1'



BURNS AVE ENTRANCE
HIGH VOLUME CURB
STA. 123+11.58, LT
RADIUS = 25' (WEST)
RADIUS = 25' (EAST)
WIDTH = 43.0'



COMMERCIAL ENTRANCE
LOW VOLUME CURB
STA. 123+60.00, RT
RADIUS = 7' (WEST)
RADIUS = 7' (EAST)
WIDTH = 28.4'

ROUTE D
DRIVEWAY PROFILES
SHEET 12 OF 18

ALLISON M. BRUNER
NUMBER PE-2019005896
PROFESSIONAL ENGINEER
STATE OF MISSOURI
THIS SHEET HAS BEEN SIGNED, SEALED, AND DATED ELECTRONICALLY
Digitally signed by Allison Bruner
Date: 2025.12.19 09:38:40-06'00'

DATE PREPARED: 12/17/2025
ROUTE: D
STATE: MO
DISTRICT: SL
SHEET NO.: 58
COUNTY: ST. LOUIS
JOB NO.: JSL0186
CONTRACT ID.:
PROJECT NO.:
BRIDGE NO.:

DESCRIPTION | DATE

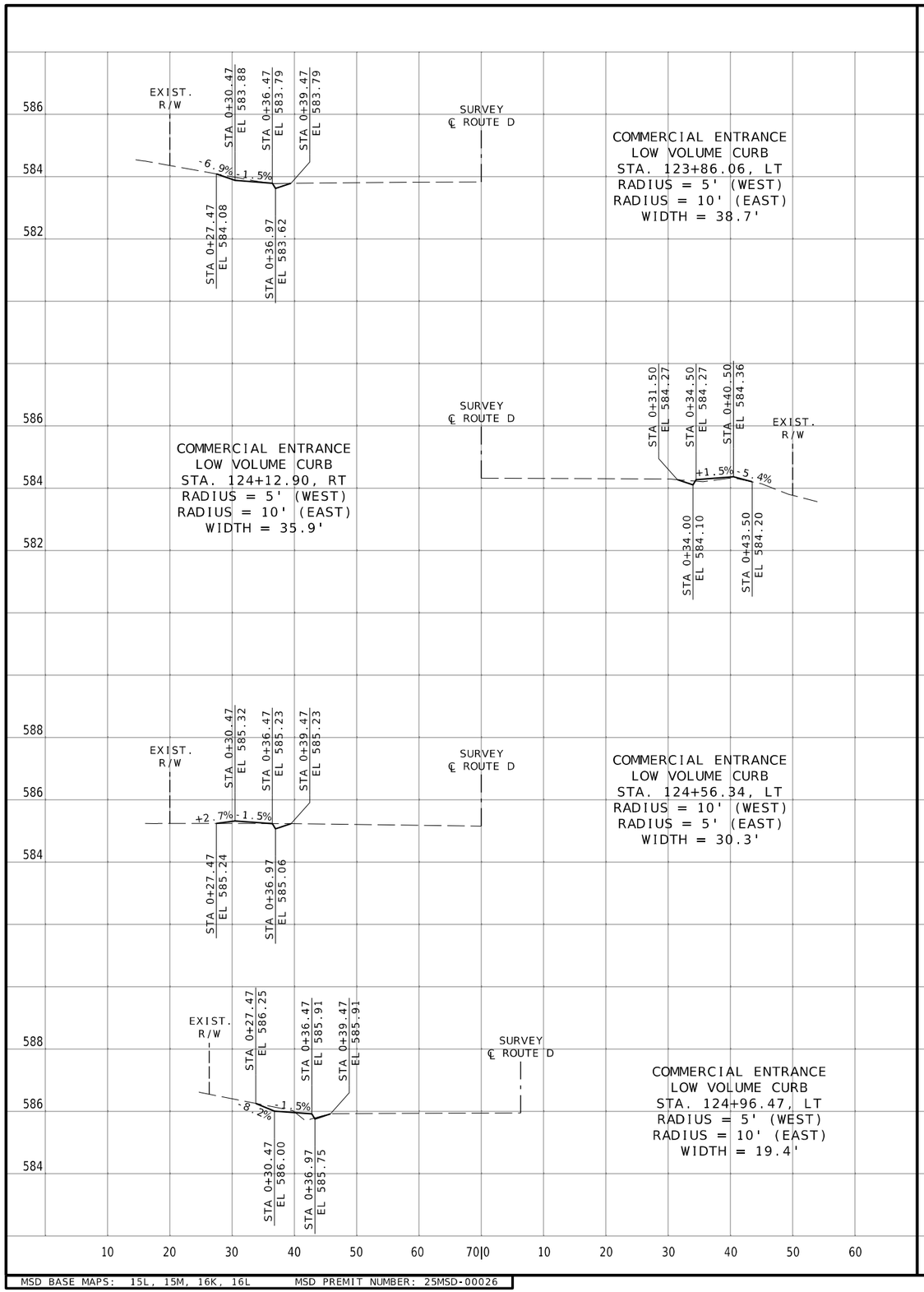
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

Burns & McDonnell Engineering Co., Inc.
425 South Woods Mill Road
Chesterfield, Missouri 63017
314-682-1500
Certificate of Authority
No. : 000165

BMcD Project No. 170361

MSD BASE MAPS: 15L, 15M, 16K, 16L MSD PERMIT NUMBER: 25MSD-00026

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ROUTE D
DRIVEWAY PROFILES
SHEET 13 OF 18

MSD BASE MAPS: 15L, 15M, 16K, 16L MSD PREMIT NUMBER: 25MSD-00026

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STATE OF MISSOURI
ALLISON M. BRUNER
NUMBER PE-2019005896
PROFESSIONAL ENGINEER

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Digitally signed by Allison Bruner
Date: 2025.12.19 09:38:40-06'00'

DATE PREPARED
12/17/2025

ROUTE	STATE
D	MO
DISTRICT	SHEET NO.
SL	59

COUNTY
ST. LOUIS

JOB NO.
JSL0186

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

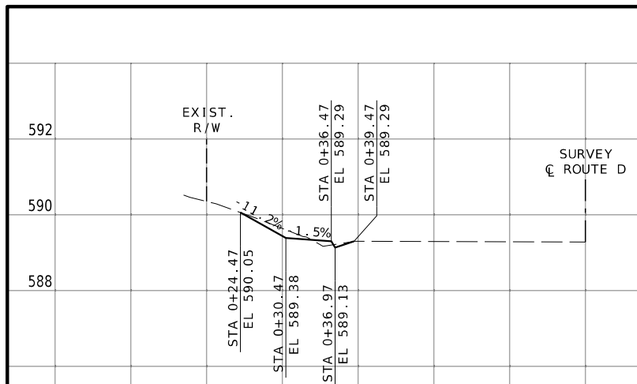
DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

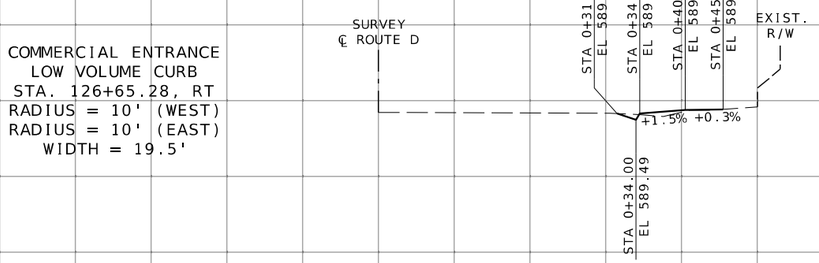
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

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Certificate of Authority
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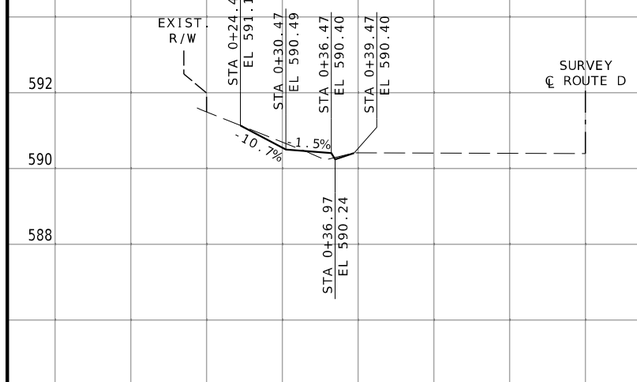
BMcD Project No. 170361



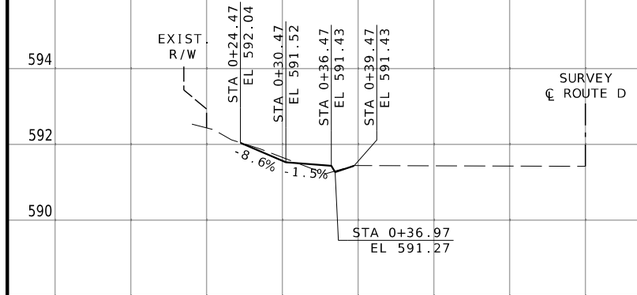
RESIDENTIAL ENTRANCE
LOW VOLUME CURB
STA. 126+48.06, LT
RADIUS = 10' (WEST)
RADIUS = 10' (EAST)
WIDTH = 9.2'



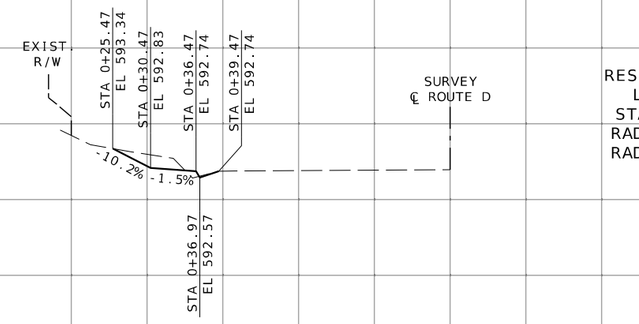
COMMERCIAL ENTRANCE
LOW VOLUME CURB
STA. 126+65.28, RT
RADIUS = 10' (WEST)
RADIUS = 10' (EAST)
WIDTH = 19.5'



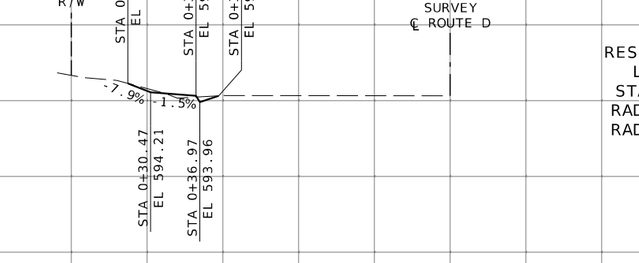
RESIDENTIAL ENTRANCE
LOW VOLUME CURB
STA. 126+95.50, LT
RADIUS = 10' (WEST)
RADIUS = 10' (EAST)
WIDTH = 35.7'



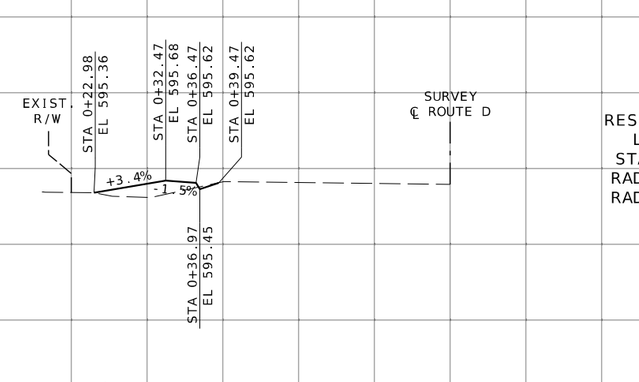
RESIDENTIAL ENTRANCE
LOW VOLUME CURB
STA. 127+39.04, LT
RADIUS = 10' (WEST)
RADIUS = 10' (EAST)
WIDTH = 11.5'



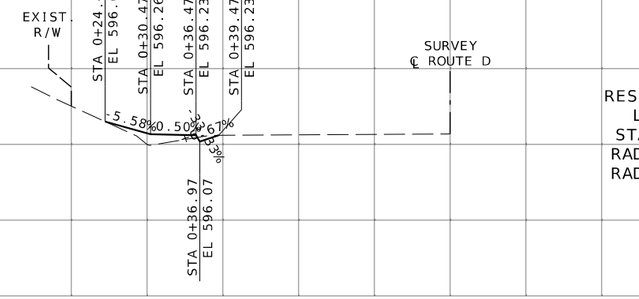
RESIDENTIAL ENTRANCE
LOW VOLUME CURB
STA. 127+92.19, LT
RADIUS = 10' (WEST)
RADIUS = 10' (EAST)
WIDTH = 11.7'



RESIDENTIAL ENTRANCE
LOW VOLUME CURB
STA. 128+41.49, LT
RADIUS = 10' (WEST)
RADIUS = 10' (EAST)
WIDTH = 11.0'



RESIDENTIAL ENTRANCE
LOW VOLUME CURB
STA. 129+07.07, LT
RADIUS = 10' (WEST)
RADIUS = 10' (EAST)
WIDTH = 10.6'



RESIDENTIAL ENTRANCE
LOW VOLUME CURB
STA. 129+59.20, LT
RADIUS = 10' (WEST)
RADIUS = 10' (EAST)
WIDTH = 25.0'

10 20 30 40 50 60 70|0 10 20 30 40 50 60

50 60 70 10 20 30 40

ROUTE D
DRIVEWAY PROFILES
SHEET 14 OF 18

MSD BASE MAPS: 15L, 15M, 16K, 16L MSD PREMIT NUMBER: 25MSD-00026

c:\bmcd_lib\pw_connect\trn\d0171707\054-064_SS_SL0186_I10_Drv_Profiles.dgn 9:33:02 AM 12/17/2025

STATE OF MISSOURI
ALLISON M. BRUNER
NUMBER PE-2019005896
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED, AND DATED ELECTRONICALLY

Digitally signed by Allison Bruner
Date: 2025.12.19 09:38:40-06'00'

DATE PREPARED
12/17/2025

ROUTE	STATE
D	MO
DISTRICT	SHEET NO.
SL	60

COUNTY
ST. LOUIS

JOB NO.
JSL0186

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

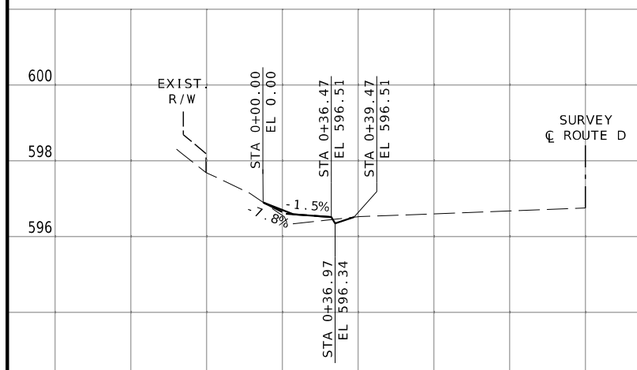
DESCRIPTION	DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

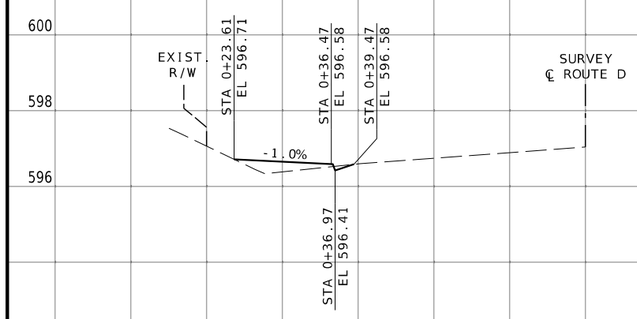
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

Burns & McDonnell Engineering Co., Inc.
425 South Woods Mill Road
Chesterfield, Missouri 63017
314-682-1500
Certificate of Authority
No. : 000165

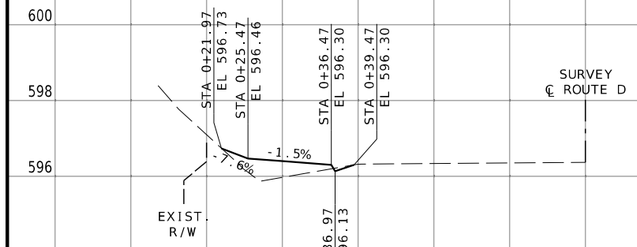
BMcD Project No. 170361



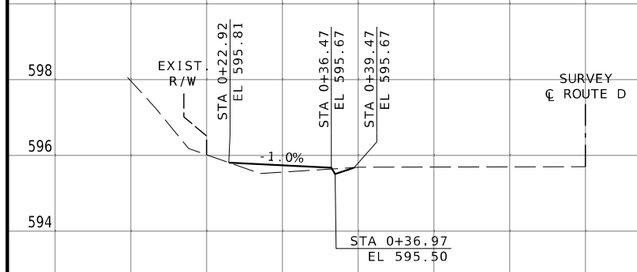
RESIDENTIAL ENTRANCE
LOW VOLUME CURB
STA. 130+10.77, LT
RADIUS = 10' (WEST)
RADIUS = 5' (EAST)
WIDTH = 38.4'



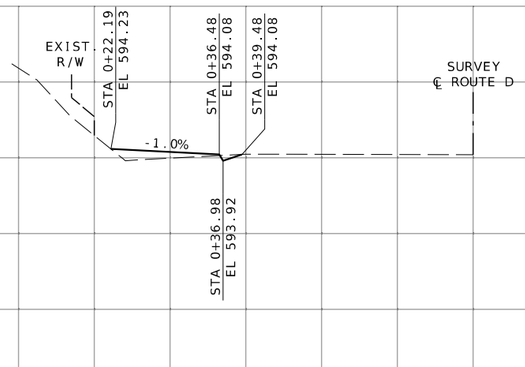
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LOW VOLUME CURB
STA. 130+50.00, LT
RADIUS = 5' (WEST)
RADIUS = 5' (EAST)
WIDTH = 43.3'



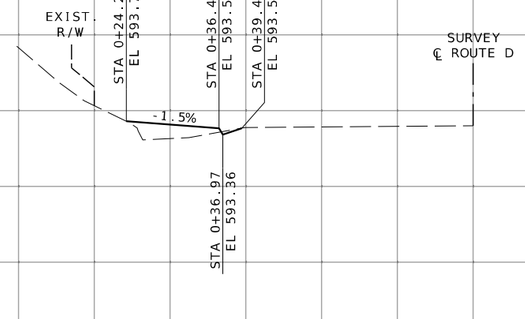
RESIDENTIAL ENTRANCE
LOW VOLUME CURB
STA. 130+99.89, LT
RADIUS = 5' (WEST)
RADIUS = 10' (EAST)
WIDTH = 13.9'



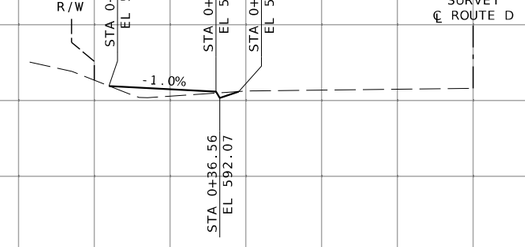
RESIDENTIAL ENTRANCE
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STA. 131+48.43, LT
RADIUS = 10' (WEST)
RADIUS = 10' (EAST)
WIDTH = 10.0'



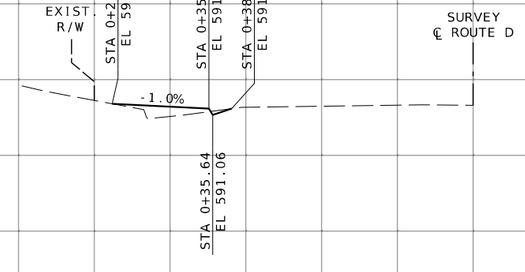
RESIDENTIAL ENTRANCE
LOW VOLUME CURB
STA. 132+24.86, LT
RADIUS = 10' (WEST)
RADIUS = 2.5' (EAST)
WIDTH = 10.0'



RESIDENTIAL ENTRANCE
LOW VOLUME CURB
STA. 132+39.86, LT
RADIUS = 2.5' (WEST)
RADIUS = 10' (EAST)
WIDTH = 20.0'



RESIDENTIAL ENTRANCE
LOW VOLUME CURB
STA. 132+75.40, LT
RADIUS = 10' (WEST)
RADIUS = 2.5' (EAST)
WIDTH = 33.5'



RESIDENTIAL ENTRANCE
LOW VOLUME CURB
STA. 133+00.40, LT
RADIUS = 2.5' (WEST)
RADIUS = 10' (EAST)
WIDTH = 41.7'

ROUTE D
DRIVEWAY PROFILES
SHEET 15 OF 18

STATE OF MISSOURI
ALLISON M. BRUNER
NUMBER PE-2019005896
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED, AND DATED ELECTRONICALLY

Digitally signed by Allison Bruner
Date: 2025.12.19 09:38:40-06'00'

DATE PREPARED
12/17/2025

ROUTE	STATE
D	MO
DISTRICT	SHEET NO.
SL	61

COUNTY
ST. LOUIS

JOB NO.
JSL0186

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

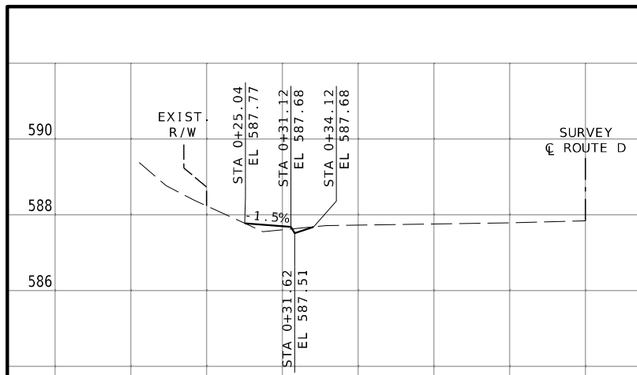
DESCRIPTION	DATE

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

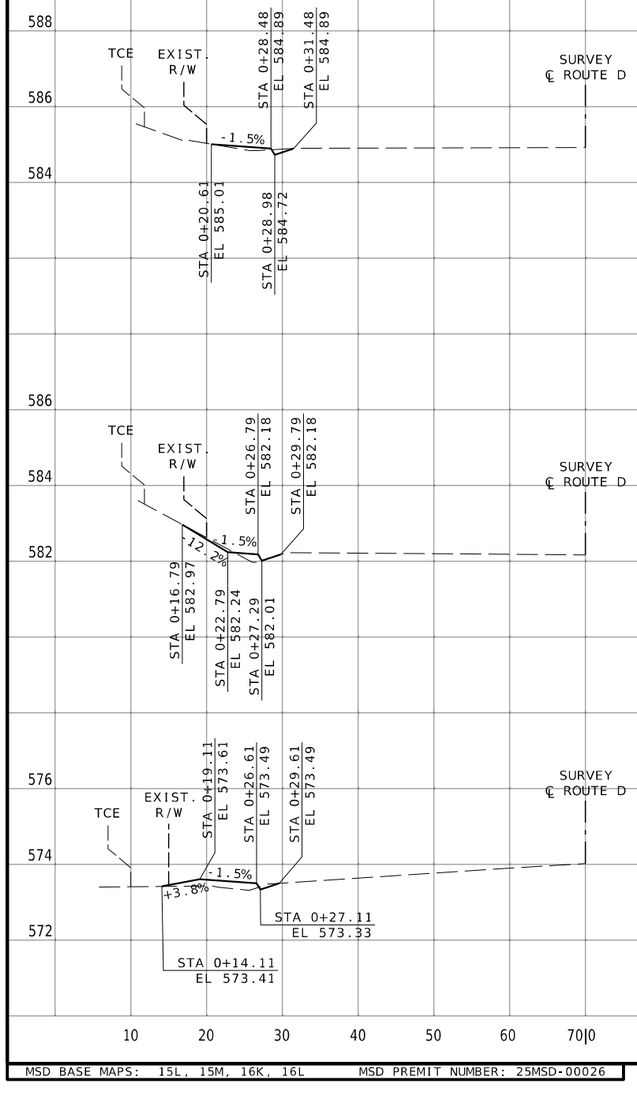
Burns & McDonnell Engineering Co., Inc.
425 South Woods Mill Road
Chesterfield, Missouri 63017
314-682-1500
Certificate of Authority
No. : 000165
BMcD Project No. 170361

MSD BASE MAPS: 15L, 15M, 16K, 16L MSD PERMIT NUMBER: 25MSD-00026

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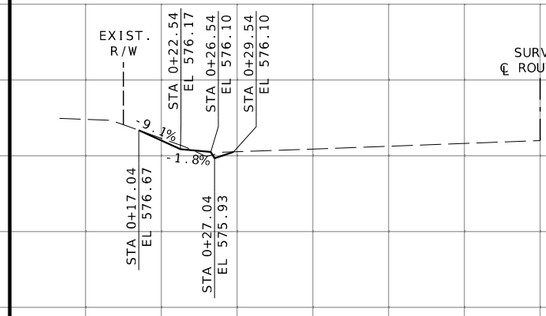
RESIDENTIAL ENTRANCE
LOW VOLUME CURB
STA. 133+75.86, LT
RADIUS = 10' (WEST)
RADIUS = 6.5' (EAST)
WIDTH = 7.8'



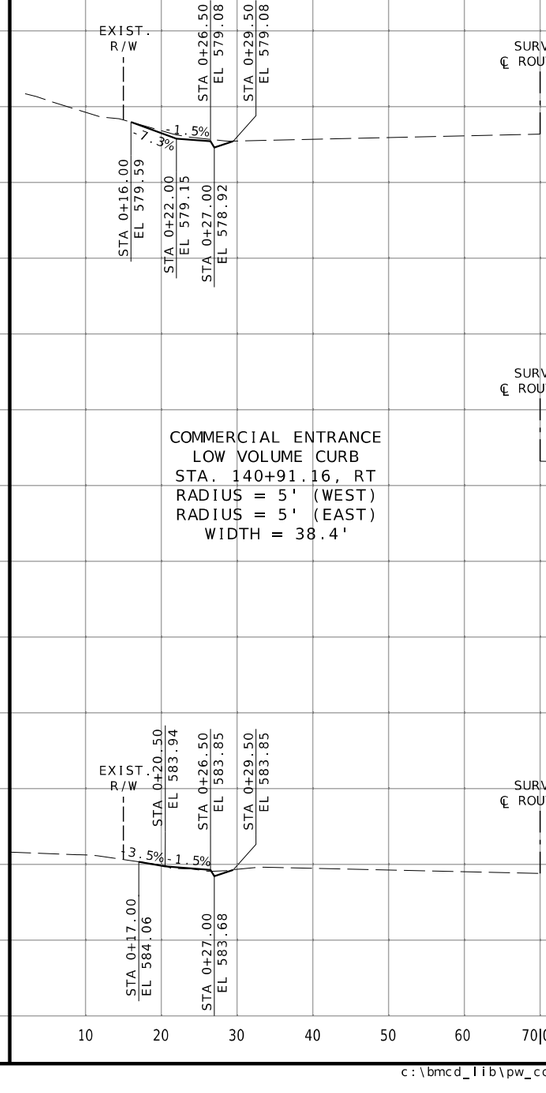
COMMERCIAL ENTRANCE
LOW VOLUME CURB
STA. 134+25.57, LT
RADIUS = 6.5' (WEST)
RADIUS = 10' (EAST)
WIDTH = 45.6'

COMMERCIAL ENTRANCE
LOW VOLUME CURB
STA. 134+71.61, LT
RADIUS = 10' (WEST)
RADIUS = 10' (EAST)
WIDTH = 44.5'

COMMERCIAL ENTRANCE
LOW VOLUME CURB
STA. 139+44.17, LT
RADIUS = 5' (WEST)
RADIUS = 6' (EAST)
WIDTH = 39.1'



COMMERCIAL ENTRANCE
LOW VOLUME CURB
STA. 139+83.26, LT
RADIUS = 5' (WEST)
RADIUS = 15' (EAST)
WIDTH = 15.8'



COMMERCIAL ENTRANCE
LOW VOLUME CURB
STA. 140+30.25, LT
RADIUS = 10' (WEST)
RADIUS = 10' (EAST)
WIDTH = 15.4'

COMMERCIAL ENTRANCE
LOW VOLUME CURB
STA. 140+91.16, RT
RADIUS = 5' (WEST)
RADIUS = 5' (EAST)
WIDTH = 38.4'

COMMERCIAL ENTRANCE
LOW VOLUME CURB
STA. 141+12.99, LT
RADIUS = 10' (WEST)
RADIUS = 10' (EAST)
WIDTH = 22.0'

ROUTE D
DRIVEWAY PROFILES
SHEET 16 OF 18

MSD BASE MAPS: 15L, 15M, 16K, 16L MSD PERMIT NUMBER: 25MSD-00026

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STATE OF MISSOURI
ALLISON M. BRUNER
NUMBER PE-2019005896
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED, AND DATED ELECTRONICALLY
Digitally signed by Allison Bruner
Date: 2026.01.02 12:44:14-06'00'

DATE PREPARED
12/31/2025

ROUTE	STATE
D	MO
DISTRICT	SHEET NO.
SL	62

COUNTY
ST. LOUIS

JOB NO.
JSL0186

CONTRACT ID.

PROJECT NO.

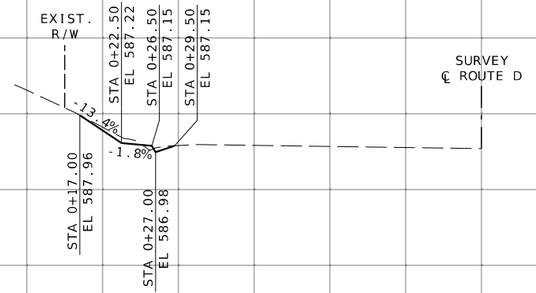
BRIDGE NO.

DESCRIPTION	DATE

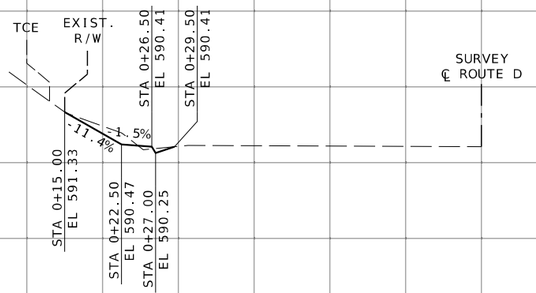
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

Burns & McDonnell Engineering Co., Inc.
425 South Woods Mill Road
Chesterfield, Missouri 63017
314-682-1500
Certificate of Authority
No. : 000165

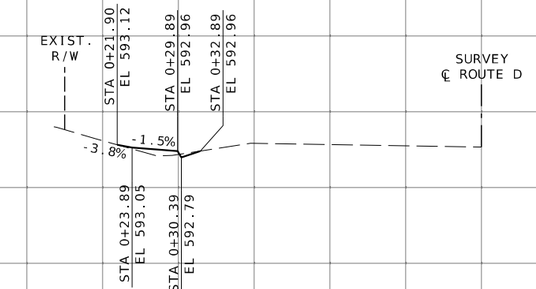
BMcD Project No. 170361



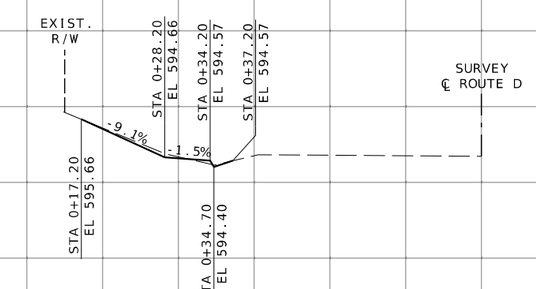
COMMERCIAL ENTRANCE
LOW VOLUME CURB
STA. 141+74.72, LT
RADIUS = 10' (WEST)
RADIUS = 10' (EAST)
WIDTH = 15.6'



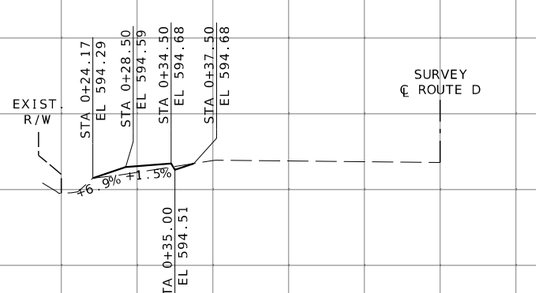
COMMERCIAL ENTRANCE
LOW VOLUME CURB
STA. 142+53.09, LT
RADIUS = 10' (WEST)
RADIUS = 10' (EAST)
WIDTH = 13.4'



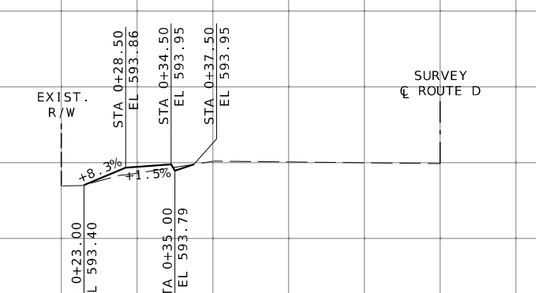
COMMERCIAL ENTRANCE
LOW VOLUME CURB
STA. 143+46.90, LT
RADIUS = 10' (WEST)
RADIUS = 10' (EAST)
WIDTH = 33.0'



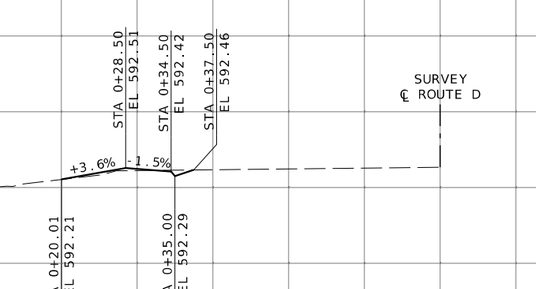
COMMERCIAL ENTRANCE
LOW VOLUME CURB
STA. 144+62.23, LT
RADIUS = 10' (WEST)
RADIUS = 10' (EAST)
WIDTH = 30.0'



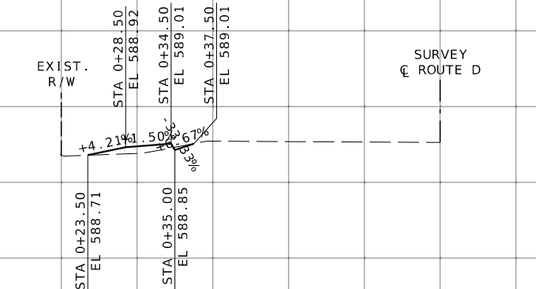
COMMERCIAL ENTRANCE
LOW VOLUME CURB
STA. 145+18.81, LT
RADIUS = 10' (WEST)
RADIUS = 10' (EAST)
WIDTH = 30.0'



COMMERCIAL ENTRANCE
LOW VOLUME CURB
STA. 145+94.96, LT
RADIUS = 10' (WEST)
RADIUS = 10' (EAST)
WIDTH = 29.2'



HURSTGREEN DR ENTRANCE
HIGH VOLUME CURB
STA. 146+59.39, LT
RADIUS = 10' (WEST)
RADIUS = 25' (EAST)
WIDTH = 43.4'



COMMERCIAL ENTRANCE
LOW VOLUME CURB
STA. 147+67.64, LT
RADIUS = 12' (WEST)
RADIUS = 10' (EAST)
WIDTH = 32.3'

10 20 30 40 50 60 70|0 10 20 30 40 50 60 | 50 60 70 10 20 30 40

ROUTE D
DRIVEWAY PROFILES
SHEET 17 OF 18

MSD BASE MAPS: 15L, 15M, 16K, 16L MSD PREMIT NUMBER: 25MSD-00026

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STATE OF MISSOURI
ALLISON M. BRUNER
NUMBER PE-2019005896
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED, AND DATED ELECTRONICALLY

Digitally signed by Allison Bruner
Date: 2025.12.19 09:38:40-06'00'

DATE PREPARED
12/17/2025

ROUTE	STATE
D	MO
DISTRICT	SHEET NO.
SL	63

COUNTY
ST. LOUIS

JOB NO.
JSL0186

CONTRACT ID.

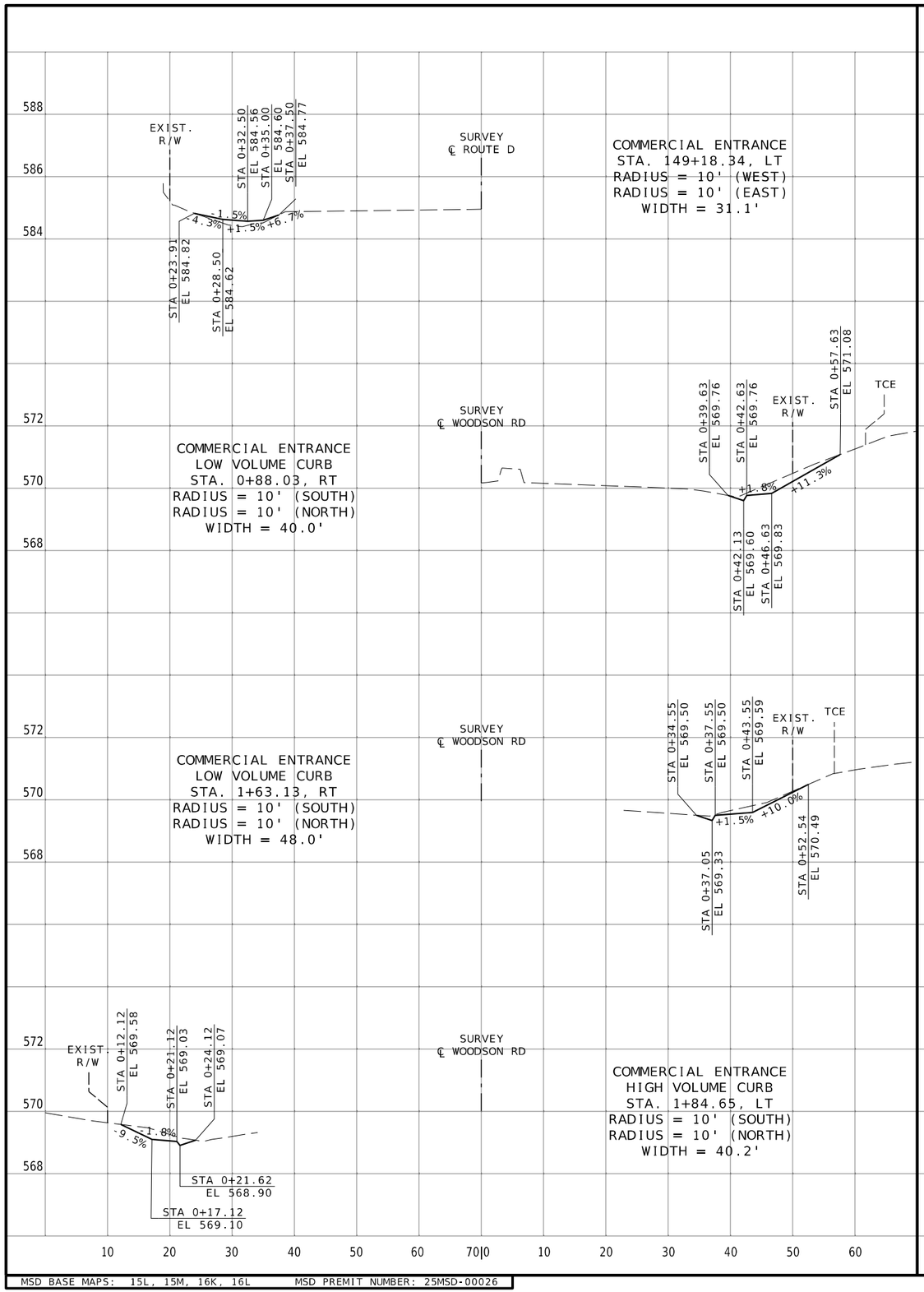
PROJECT NO.

BRIDGE NO.

DESCRIPTION	DATE

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

Burns & McDonnell Engineering Co., Inc.
425 South Woods Mill Road
Chesterfield, Missouri 63017
314-682-1500
Certificate of Authority
No. : 000165
BMcD Project No. 170361



ALLISON M. BRUNER
NUMBER PE-2019005896
STATE OF MISSOURI
PROFESSIONAL ENGINEER

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Date: 2025.12.19 09:38:40-06'00'

DATE PREPARED
12/17/2025

ROUTE	STATE
D	MO
DISTRICT	SHEET NO.
SL	64

COUNTY
ST. LOUIS

JOB NO.
JSL0186

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)

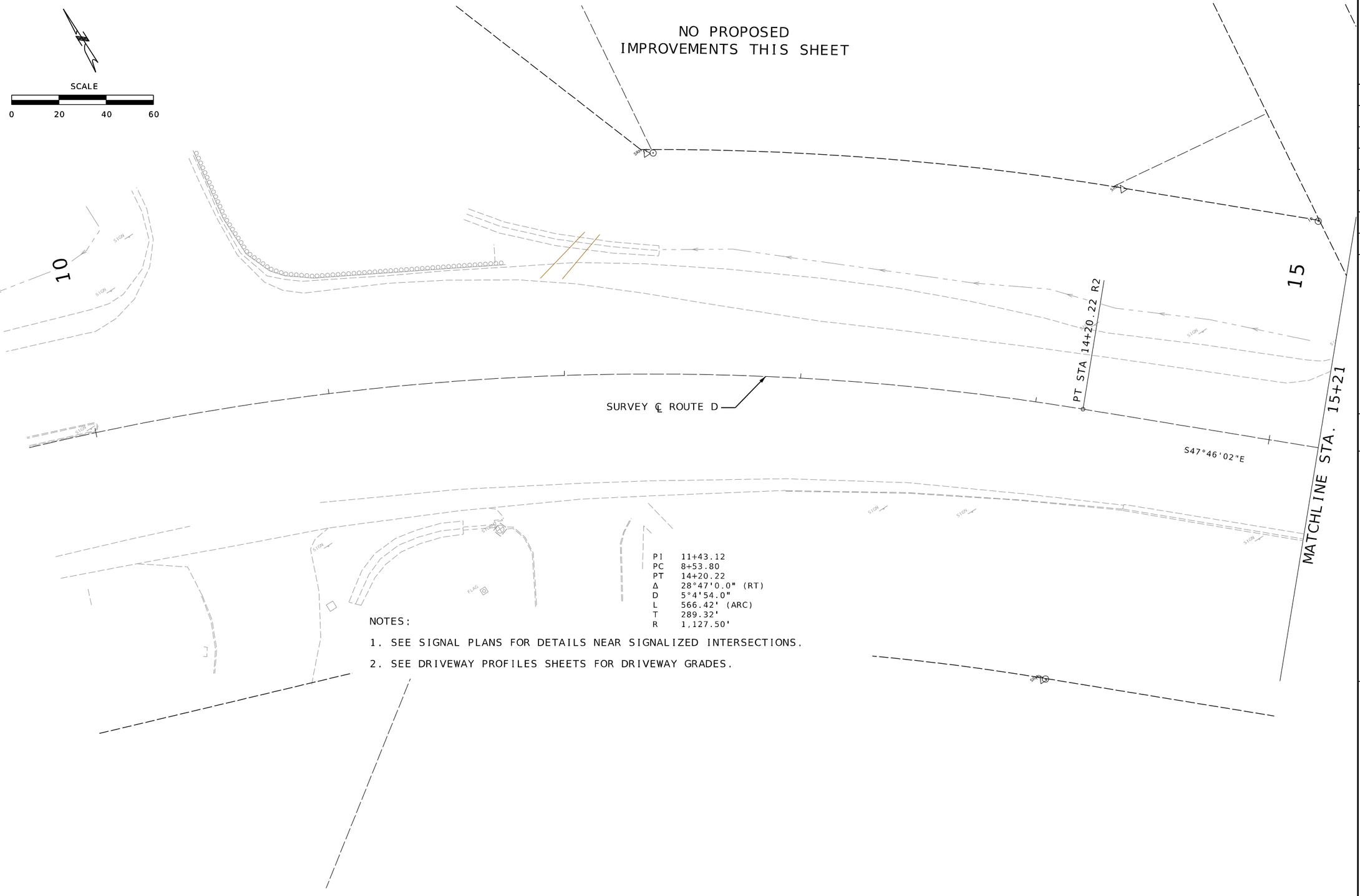
Burns & McDonnell Engineering Co., Inc.
425 South Woods Mill Road
Chesterfield, Missouri 63017
314-682-1500
Certificate of Authority
No. : 000165

BMcD Project No. 170361

ROUTE D
DRIVEWAY PROFILES
SHEET 18 OF 18

MSD BASE MAPS: 15L, 15M, 16K, 16L MSD PERMIT NUMBER: 25MSD-00026

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NOTES:

1. SEE SIGNAL PLANS FOR DETAILS NEAR SIGNALIZED INTERSECTIONS.
2. SEE DRIVEWAY PROFILES SHEETS FOR DRIVEWAY GRADES.

ROUTE D UTILITY PLAN
SHEET 01 OF 28

ALLISON M. BRUNER
NUMBER PE-2019005896
PROFESSIONAL ENGINEER
STATE OF MISSOURI

THIS SHEET HAS BEEN SIGNED, SEALED, AND DATED ELECTRONICALLY

Digitally signed by Allison Bruner
Date: 2025.12.19 09:38:41-06'00'

DATE PREPARED
12/17/2025

ROUTE	STATE
D	MO
DISTRICT	SHEET NO.
SL	65

COUNTY
ST. LOUIS

JOB NO.
JSL0186

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)

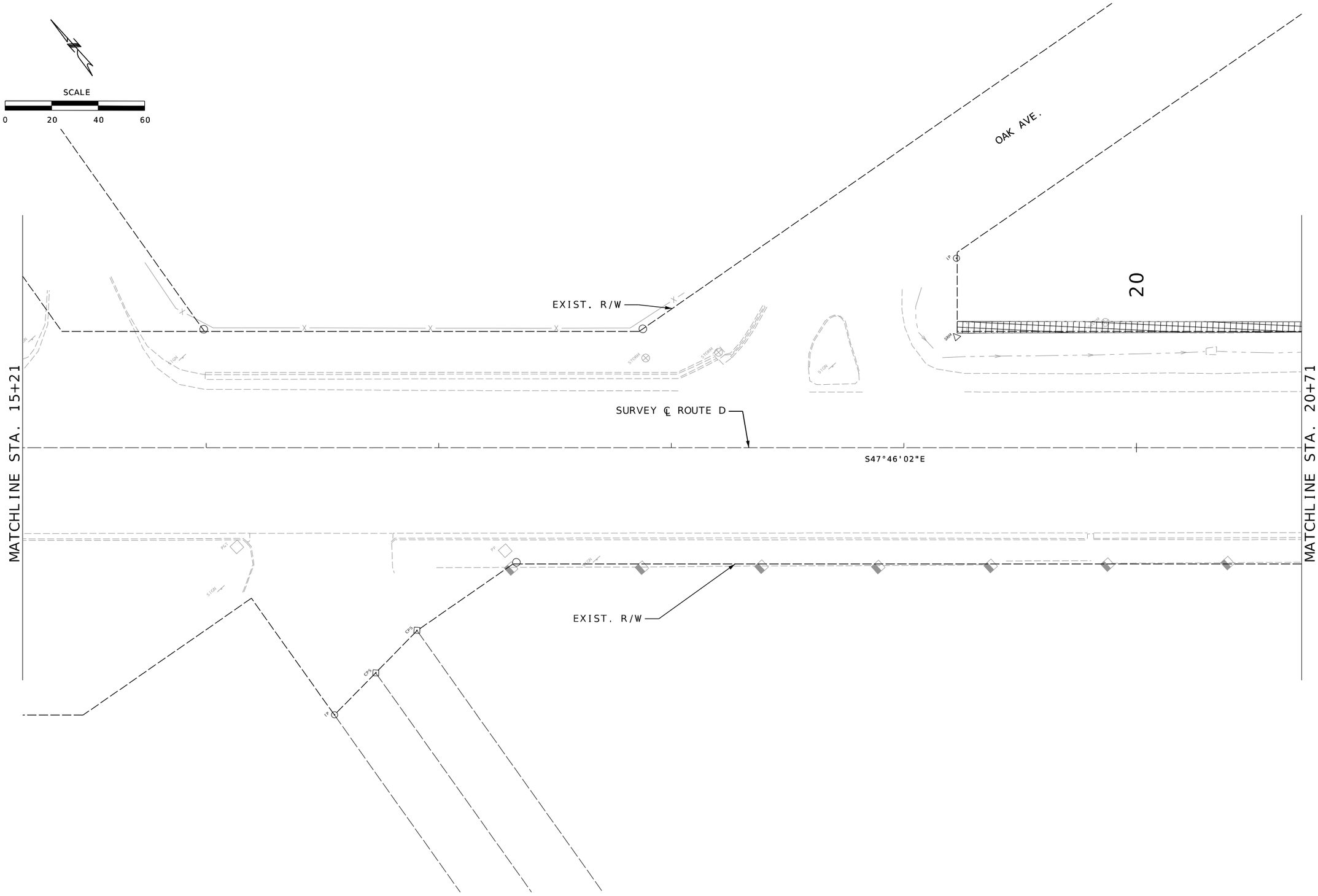
Burns & McDonnell Engineering Co., Inc.
425 South Woods Mill Road
Chesterfield, Missouri 63017
314-682-1500
Certificate of Authority
No. : 000165

BMcD Project No. 170361

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SCALE

0 20 40 60



ROUTE D UTILITY PLAN
SHEET 02 OF 28

ALLISON M. BRUNER
NUMBER
PE-2019005896
STATE OF MISSOURI
PROFESSIONAL ENGINEER

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Digitally signed by Allison Bruner
Date: 2025.12.19 09:38:41-06'00'

DATE PREPARED
12/17/2025

ROUTE	STATE
D	MO
DISTRICT	SHEET NO.
SL	66

COUNTY
ST. LOUIS

JOB NO.
JSL0186

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)

Burns & McDonnell Engineering Co., Inc.

425 South Woods Mill Road
Chesterfield, Missouri 63017
314-682-1500

Certificate of Authority
No. : 000165

BMcD Project No. 170361

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SCALE
0 20 40 60

QUICKTRIP
GOLDENBERG ASSOCIATES LLC
348/48
10793 PAGE AVE.

1

EX. MANHOLE (UIP)
15M4-102S

EX. MANHOLE
(UIP)
15M4-114D

EXIST. R/W

EX. INLET (UIP)
15M4-124D

EX. INLET (UIP)
15M4-125D

TIE INTO EX.
SIDEWALK

BEGIN PROJECT
STA. 24+60.70

TCE

25

12-IN. CURB
(6")

+97.77
LT 65.91'

TCE

EX. TREE
(DND)

A

MATCHLINE STA. 20+71

EX. MANHOLE
(UIP)
15M4-112D

EX. MANHOLE
(UIP)
15M4-123D

PC STA 23+71.76 R2

UT

LUMEN (DND)

EX. INLET (UIP)
15M4-127D

EX. LANDSCAPING
(DND)

TYPE 1 PARALLEL
CURB RAMP

MATCHLINE STA. 26+21

SURVEY ℄ ROUTE D

S47°46'02"E

INLET IR
INSTALL PRECAST DROP INLET
(5'X3').INCLUDE (1) 5'X3'
GRATE AND BEARING PLATE.
MODOT MAINTAIN.
(SEE CULVERT SECTION SHEET)

EX. FES (R)

4 FT X 4 FT
DRAINAGE FLUME

AT&T (DND)

EX. SIGN (UIP)

CONTRUCTION LIMITS

PROPOSED DITCH FLOW
LINE (SEE CULVERT
SECTION SHEET)

TYPE S CURB (6")

TYPE 3 PARALLEL
CURB RAMP

FILL EX. DITCH

EXIST. R/W

LINPAGE PL.

ROUTE D UTILITY PLAN
SHEET 03 OF 28

ALLISON M. BRUNER
NUMBER
PE-2019005896
STATE OF MISSOURI
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED, AND DATED ELECTRONICALLY

Digitally signed by Allison Bruner
Date: 2025.12.19 09:38:41-06'00'

DATE PREPARED
12/17/2025

ROUTE	STATE
D	MO
DISTRICT	SHEET NO.
SL	67

COUNTY
ST. LOUIS

JOB NO.
JSL0186

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)

Burns & McDonnell Engineering Co., Inc.
425 South Woods Mill Road
Chesterfield, Missouri 63017
314-682-1500
Certificate of Authority
No. : 000165

BMcD Project No. 170361

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SCALE
0 20 40 60

QUICKTRIP
GOLDENBERG ASSOCIATES LLC
348/48
10793 PAGE AVE.

1

LINPAGE PL.

TIE INTO EX. SIDEWALK
TCE
12-IN. CURB

PI 27+30.79
PC 23+71.76
PT 30+67.64
Δ 34°47'0.0" (LT)
D 4°59'54.3"
L 695.89' (ARC)
T 359.04'
R 1,146.28'

LUMEN (DND)

EX. MANHOLE (UIP)
15M4-069S

EX. MANHOLE (UIP)
15M4-097S

EX. INLET (UIP)
15M3-164D

EXIST. R/W

30

EX. MANHOLE (UIP)
15M3-103S

MATCHLINE STA. 26+21

EX. MANHOLE (UIP)
15M4-070S

PT STA 30+67.64 R2

S82°33'02"E

MATCHLINE STA. 31+71

EX. MANHOLE (UIP)
15M4-027S

SURVEY ℄ ROUTE D

AT&T (DND)

EX. MANHOLE (UIP)
15M4-071S

EXIST. R/W

LINPAGE PL.

EX. MANHOLE (UIP)
15M4-026S

GALT INDUSTRIAL BLVD.

SALVATION ARMY

ROUTE D UTILITY PLAN
SHEET 04 OF 28

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STATE OF MISSOURI
ALLISON M. BRUNER
NUMBER PE-2019005896
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED, AND DATED ELECTRONICALLY

Digitally signed by Allison Bruner
Date: 2025.12.19 09:38:41-06'00'

DATE PREPARED
12/17/2025

ROUTE	STATE
D	MO
DISTRICT	SHEET NO.
SL	68

COUNTY
ST. LOUIS

JOB NO.
JSL0186

CONTRACT ID.

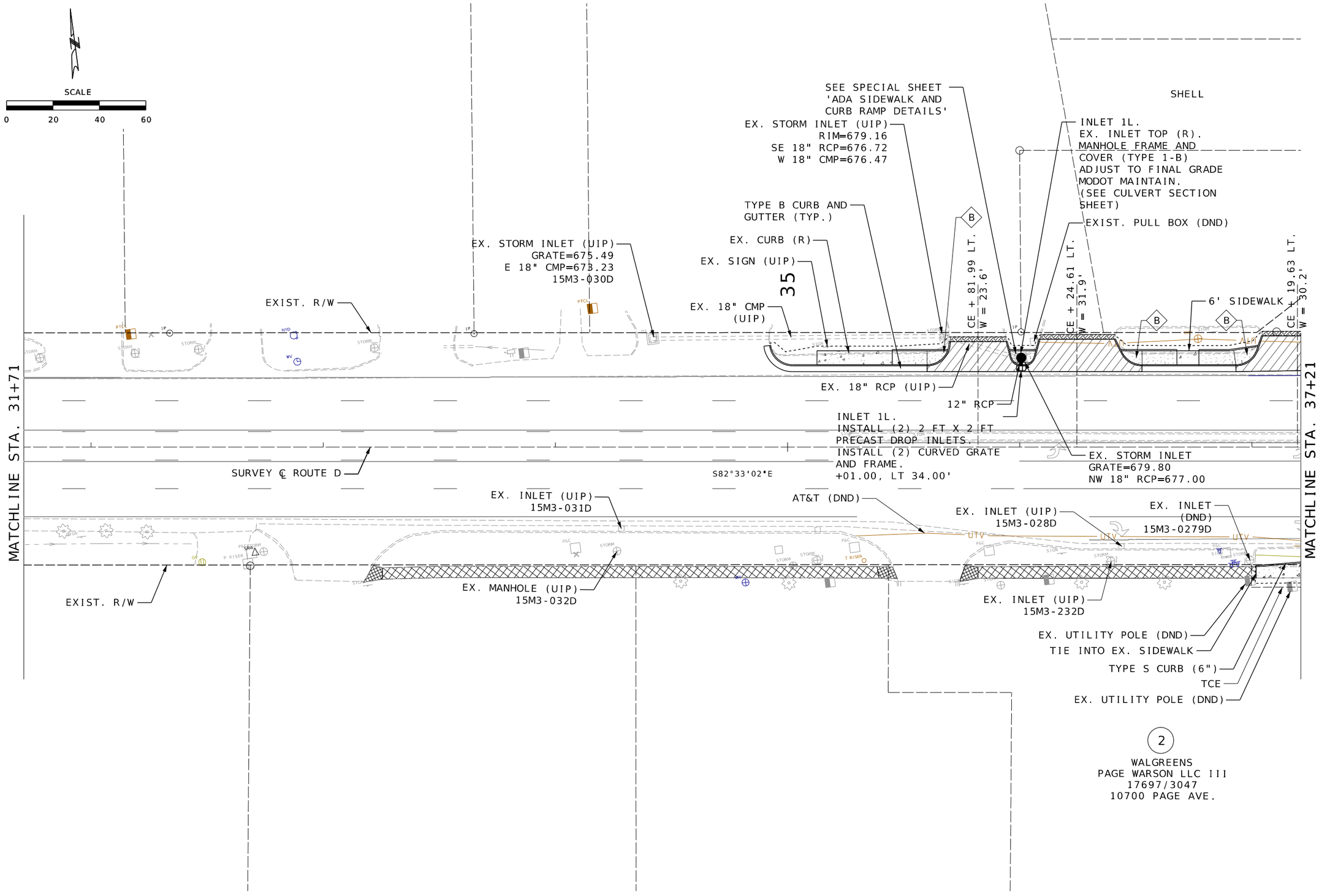
PROJECT NO.

BRIDGE NO.

DESCRIPTION	DATE

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

Burns & McDonnell Engineering Co., Inc.
425 South Woods Mill Road
Chesterfield, Missouri 63017
314-682-1500
Certificate of Authority
No. : 000165
BMcD Project No. 170361



ROUTE D UTILITY PLAN
SHEET 05 OF 28

ALLISON M. BRUNER
NUMBER PE-2019005896
STATE OF MISSOURI
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED, AND DATED ELECTRONICALLY
Digitally signed by Allison Bruner
Date: 2025.12.19 09:38:41-06'00'

DATE PREPARED: 12/17/2025
ROUTE: D
STATE: MO
DISTRICT: SL
SHEET NO.: 69
COUNTY: ST. LOUIS
JOB NO.: JSL0186
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)

Burns & McDonnell Engineering Co., Inc.
425 South Woods Mill Road
Chesterfield, Missouri 63017
314-682-1500
Certificate of Authority No. : 000165
BMcD Project No. 170361

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LOCUST AVE.

IMO'S
2ND GEN PROPERTIES
2022092600560
10641 PAGE AVE.

3

SEEMA PROPERTIES LLC
13869/2055
10635 PAGE AVE.

4

SCALE
0 20 40 60

LUMEN (R&RELOC BY OTHERS)
SEE SURVEY NOTES

WARSON RD.

AT&T (R&RELOC BY OTHERS)

EX. PULLBOX (UIP)

EXIST. GAS VALVE (DND)
+06.28
LT 68.69'

TCE

+06.02
LT 59.14'

CE + 82.78 LT.
W = 37.8'

TYPE B CURB AND GUTTER

EXIST. R/W

EXIST. PULL BOX (R) EX. LIGHT (UIP)

EX. FIRE HYDRANT (DND)

EX. LIGHT (DND)

EX. MANHOLE (UIP)
15M3-065S

AT&T (DND)

MCI VERIZON (DND)

EX. PULLBOXES (UIP)

MCI (R&RELOC BY OTHERS)

FIBER (R&RELOC BY OTHERS)

CHARTER (DND)

EX. POWER POLE AND GUY WIRES (DND)

S82°33'02"E

EX. UTILITY POLE (DND).

EX. PULLBOX (ATG)

EX. PULLBOXES (UIP)

EX. LIGHT (DND)

EX. LIGHT (DND)

EX. INLET (UIP)
15M3-036D

EXIST. GAS VALVE (DND)

EX. LIGHT (DND)

EX. INLET (UIP)
15M3-035D

CE + 89.98 RT
W = 51.2'

EX. POWER POLE (DND)

EX. MANHOLE (UIP)
15M3-046S

EX. INLET (UIP)
15M3-033D

EX. LIGHT (DND)

EX. POWER POLE AND RISER (DND)

EX. INLET (UIP)
15M3-034D

AT&T (DND)

SPIRE (R & RELOC BY OTHERS)

EX. METER (DND)

EX. GAS VALVE (DND)

EX. LIGHT (DND)

EXIST. R/W

WARSON RD.

2

EX. POWER POLE AND GUY WIRES (DND)

WALGREENS
PAGE WARSON LLC III
17697/3047
10700 PAGE AVE.

ROUTE D UTILITY PLAN
SHEET 06 OF 28

STATE OF MISSOURI
ALLISON M. BRUNER
NUMBER PE-2019005896
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED, AND DATED ELECTRONICALLY

Digitally signed by Allison Bruner
Date: 2025.12.19 09:38:41-06'00'

DATE PREPARED
12/17/2025

ROUTE	STATE
D	MO
DISTRICT	SHEET NO.
SL	70

COUNTY
ST. LOUIS

JOB NO.
JSL0186

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)

Burns & McDonnell Engineering Co., Inc.
425 South Woods Mill Road
Chesterfield, Missouri 63017
314-682-1500

Certificate of Authority
No. : 000165

BMcD Project No. 170361

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SCALE
0 20 40 60

KFC

POPEYES

ENTERPRISE
WHITE PAGE 1 LLC,
A MISSOURI LIMITED
LIABILITY COMPANY
22560/17
10501 PAGE AVE.

5

45

EX. MANHOLE (UIP) 15M3-066S

EXIST. R/W

EX. INLET (UIP) 15M3-041D

EX. INLET (UIP) 15M3-040D

EX. MANHOLE (UIP) 15M3-070S

EX. SIGNS (DND)

5' SIDEWALK

+07.89 LT 55.66'

TIE INTO EX. SIDEWALK

TCE

EX. SIDEWALK (R)

6' SIDEWALK

EX. CURB (R)

CE + 12.56 LT.
W = 29.8'

EX. MANHOLE (UIP) 15M3-037D

EX. MANHOLE (UIP) 15M3-044D NOT FOUND

TYPE B CURB AND GUTTER

STA. 42+71

SURVEY ℄ ROUTE D

S82°33'02"E

STA. 48+21

MATCHLINE

LUMEN (DND)

EX. MANHOLE (UIP) 15M3-044S

EX. NO PARKING SIGN (R)

8.5' SIDEWALK

EX. GAS VALVE (UIP)

EX. POWER POLE (DND)

TYPE B CURB AND GUTTER

EX. POWER POLE (DND)

EX. INLET (ATG)

CE + 83.43 RT.
W = 31.8'

CE + 10.77 RT.
W = 33'

EXIST. R/W

EX. POWER POLE (DND)

EX. POWER POLE (DND)

EX. CURB (R)

8.5' SIDEWALK

CE + 76.23 RT.
W = 20'

EX. COMMUNICATION MANHOLE (ATG)

9' SIDEWALK

ROUTE D UTILITY PLAN
SHEET 07 OF 28

THIS SHEET HAS BEEN SIGNED, SEALED, AND DATED ELECTRONICALLY
Digitally signed by Allison Bruner
Date: 2025.12.19 09:38:41-06'00'

ALLISON M. BRUNER
NUMBER PE-2019005896
STATE OF MISSOURI
PROFESSIONAL ENGINEER

DATE PREPARED
12/17/2025

ROUTE	STATE
D	MO
DISTRICT	SHEET NO.
SL	71

COUNTY
ST. LOUIS

JOB NO.
JSL0186

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)

Burns & McDonnell Engineering Co., Inc.
425 South Woods Mill Road
Chesterfield, Missouri 63017
314-682-1500
Certificate of Authority
No. : 000165
BMcD Project No. 170361

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ENTERPRISE
WHITE PAGE 1 LLC,
A MISSOURI LIMITED
LIABILITY COMPANY
22560/17
10501 PAGE AVE.

5

TCE

+45.35
LT 34.30'

EX. INLET (ATG)
15M3-081D

CE + 72.83 LT.
W = 34.3'

EX. MANHOLE
(ATG)
15M3-076D

EX. INLET (UIP)
15M3-075D

ASHBY RD.

MODOT (DND)

EX. MANHOLE
(UIP)
15M3-071S

EX. MANHOLE
(UIP)
15M3-082D

EX. PULL BOX (R)

EX. MANHOLE (UIP)
15M3-088S

EX. INLET (UIP)
15M3-077D

EXIST. R/W

EX. MANHOLE
(UIP)
15M3-087S

EXIST.
MODOT PULL
BOX (ATG)

+83.55
LT 34.00'

EXIST. MODOT
PULL BOX (ATG)

CE + 28.69 LT.
W = 29.6'

+57.62
LT 34.00'

CE + 8.26 LT.
W = 29.5'

SCALE
0 20 40 60

R 10'
R 20'
R 85'
R 57.5'
R 42.5'

EXIST. SANITARY
MANHOLE (DND)

+37.64
LT 34.26'

EXIST. WATER
VALVE (DND)

+00.48
LT 34.59'

EX. PULL BOX (R)

EX. MCI VERIZON
HANDHOLE (DND)

+18.54
LT 33.91'

MCI
VERIZON
(DND)

LUMEN (DND)

+24.34
LT 33.79

+03.90
LT 34.00'

+53.46
LT 34.00'

+32.97
LT 34.00'

EXIST. MODOT
PULL BOX (ATG)

EX. MANHOLE (UIP)
15M3-045S

+47.53
RT 32.50'

+09.48
RT 32.50'

S82°33'02"E

EX. POWER
POLE (DND)

+15.26

EX. INLET
(UIP)
15M3-104D
RT 30.69

+31.28
RT 31.14'

EX. GAS VALVE
(ATG)

+30.80
RT 48.42'

+18.70
RT 52.94'

EX. MCI
HANDHOLE
(UIP)

EX. POWER
POLE (DND)

CE + 74.17 RT
W = 43.4'

EX. MANHOLE (UIP)
15M3-018D

EX. MANHOLE
(UIP)
15M3-033S

+37.42
RT 34.90'

EX. POWER POLE
(DND)

EX. GAS
VALVE
(UIP)

EXIST. R/W

CE + 98.27 RT
W = 48.8'

EX. GAS VALVE
(ATG)

+95.91
RT 95.12'

PSE

ASHBY RD

6

ANTHONY J VENTI JR &
MARGARET A VENTI TRUST
2024012200199
10460 PAGE AVE.

ROUTE D UTILITY PLAN
SHEET 08 OF 28

ALLISON M. BRUNER
NUMBER
PE-2019005896
STATE OF MISSOURI
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED, AND DATED ELECTRONICALLY

Digitally signed by Allison Bruner
Date: 2025.12.19 09:38:41-06'00'

DATE PREPARED
12/17/2025

ROUTE	STATE
D	MO
DISTRICT	SHEET NO.
SL	72

COUNTY
ST. LOUIS

JOB NO.
JSL0186

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)

Burns & McDonnell Engineering Co., Inc.
425 South Woods Mill Road
Chesterfield, Missouri 63017
314-682-1500

Certificate of Authority
No. : 000165

BMcD Project No. 170361

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SCALE
0 20 40 60

FAMILY DOLLAR/SUBWAY

MORVEN AVE.

MCDONALD'S

55

TYPE B CURB AND GUTTER

EX. MANHOLE (UIP) 15M3-077S

EXIST. R/W

EX. INLET (UIP) 15M3-121D

EX. INLET (UIP) 15M3-122D

EX. INLET (UIP) 15M3-123D

EX. INLET (UIP) 15M3-014D

EX. INLET (UIP) 15M3-151D

EX. INLET (UIP) 15M3-149D

MATCHLINE STA. 53+71

MATCHLINE STA. 59+21

SURVEY ℄ ROUTE D

S82°33'02"E

EX. MANHOLE (UIP) 15M3-034S

EXIST. R/W

EX. INLET (UIP) 15M3-015D

EX. INLET (UIP) 15M3-180D

EX. MANHOLE (UIP) 15M3-035S

TACO BELL

SONIC

ROUTE D UTILITY PLAN
SHEET 09 OF 28

ALLISON M. BRUNER NUMBER PE-2019005896
STATE OF MISSOURI PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED, AND DATED ELECTRONICALLY
Digitally signed by Allison Bruner
Date: 2025.12.19 09:38:41-06'00'

DATE PREPARED 12/17/2025
ROUTE D | STATE MO
DISTRICT SL | SHEET NO. 73
COUNTY ST. LOUIS
JOB NO. JSL0186
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)

Burns & McDonnell Engineering Co., Inc.
425 South Woods Mill Road
Chesterfield, Missouri 63017
314-682-1500
Certificate of Authority No. : 000165
BMcD Project No. 170361

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NO PROPOSED
IMPROVEMENTS THIS SHEET

SCALE
0 20 40 60

MATCHLINE STA. 59+21

POT STA 59+39.28 R2

60

KORANDO AVE.

EXIST. R/W

SURVEY ℄ ROUTE D

S82°09'02"E

MATCHLINE STA. 64+71

FAIRVIEW AVE.

EXIST. R/W

RALLY'S

ROUTE D UTILITY PLAN
SHEET 10 OF 28

ALLISON M. BRUNER NUMBER PE-2019005896
STATE OF MISSOURI PROFESSIONAL ENGINEER
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Date: 2025.12.19 09:38:41-06'00'

DATE PREPARED
12/17/2025

ROUTE	STATE
D	MO
DISTRICT	SHEET NO.
SL	74

COUNTY
ST. LOUIS

JOB NO.
JSL0186

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)

Burns & McDonnell Engineering Co., Inc.
425 South Woods Mill Road
Chesterfield, Missouri 63017
314-682-1500
Certificate of Authority
No. : 000165
BMcD Project No. 170361

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WAFFLE HOUSE

UCEYLE AVE.

OCONNELL AVE.

EX. INLET (UIP)
15M3-261D

EXIST. R/W

EX. INLET (UIP)
15M3-262D

EX. MANHOLE (UIP)
15L4-233D

EX. INLET (UIP)
15L4-023D

EX. MANHOLE (UIP)
15L4-076S

EX. INLET (UIP)
15L4-158D

EX. INLET (UIP)
15L4-155D

EX. INLET (UIP)
15L4-180D

EX. INLET
(UIP)
15L4-161D

LUMEN MANHOLE
(DND)

EX. INLET (UIP)
15L4-234D

POWER SERVICE POLE TO BE R&RELOC BY
OTHERS. SEE SIGNAL PLANS FOR MORE
INFORMATION ON THE POWER SUPPLY.

SCALE
0 20 40 60

MATCHLINE STA. 64+71

65

70

70+06

MATCHLINE STA.

SURVEY ℄ ROUTE D

S82°09'02"E

KEEP RIGHT SIGN

2 FT. CONCRETE
MEDIAN STRIP (6")

18" TUBULAR MARKER

ONE WAY SIGN

EX. CURB (R)

AT&T (DND)

EX. INLET (UIP)
15L4-027D

EX. INLET (UIP)
15L4-026D

EX. INLET (UIP)
15M3-132D

EX. INLET (UIP)
15M3-008D

EXIST. R/W

EX. BUS STOP
SIGN (UIP)

4' MIN. ADA PATH

EX. POLES (UIP)

+35.23
RT 50.00'

+35.28
RT 53.00'

EX. AT&T
MANHOLE (ATG)

CE + 66.04 RT
W = 28.0'

TCE

6' SIDEWALK

DUNKIN'

BACH RD.

7

FIRE CHICKEN
BAIKS PAGE LLC
2022040800693
10200 PAGE AVE.

ROUTE D UTILITY PLAN
SHEET 11 OF 28

STATE OF MISSOURI
ALLISON M. BRUNER
NUMBER PE-2019005896
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED, AND DATED ELECTRONICALLY

Digitally signed by Allison Bruner
Date: 2025.12.19 09:38:42-06'00'

DATE PREPARED
12/17/2025

ROUTE	STATE
D	MO
DISTRICT	SHEET NO.
SL	75

COUNTY
ST. LOUIS

JOB NO.
JSL0186

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)

Burns & McDonnell Engineering Co., Inc.
425 South Woods Mill Road
Chesterfield, Missouri 63017
314-682-1500

Certificate of Authority
No. : 000165

BMcD Project No. 170361

SCALE
0 20 40 60

MATCHLINE STA. 70+06

6 IN. CONCRETE MEDIAN STRIP
KEEP RIGHT SIGN
18" TUBULAR MARKER
EXIST. MODOT FIBER (ATG) (UIP) 15L4-156D
EX. STORM MANHOLE (ATG) 15L4-075S MSD INSPECTION REQUIRED
EX. INLET (UIP) 15L4-181D
EX. INLET (UIP) 15L4-0273D
DYER AVE.
EX. SANITARY MANHOLE (ATG) 15L4-074S
EX. INLET (DND) 15L4-0274D
EX. INLET (UIP) 15L4-0276D
EXIST. LUMEN MANHOLE (DND)
LUMEN (DND)
EX. CURB INLET (UIP) 15L4-016D
EX. HYDRANT (DND)
NORTHFIELD DR.
LUMEN (R & RELOC BY OTHERS)
EX. AT&T RISER (RELOC BY OTHERS)
EXIST. MCI HANDHOLE (ATG BY OTHERS)
EXIST. MODOT PULL BOX (R)
EX. WATER METER (DND)
KEEP RIGHT SIGN
ONE WAY SIGN
18" TUBULAR MARKER
6 IN. CONCRETE MEDIAN STRIP
EX. STORM INLET (UIP) 15L4-028D
AT&T (DND)
EX. 12" RCP (UIP)
EX. 12" RCP (UIP)
FL=658.44 15L4-039D
EXIST. POWER POLE AND AERIAL LINES (R&RELOC BY OTHERS)
POT STA 74+23.45 R2
SURVEY ℄ ROUTE D
MATCHLINE STA. 75+71
SPIRE (R&RELOC BY OTHERS)
AMEREN (R&RELOC BY OTHERS)
CHARTER OH (R&RELOC BY OTHERS)
FIBER (R&RELOC BY OTHERS)
PHE
PSE
EX. MCI VERIZON FIBER MARKER (RELOCATE BY OTHERS)
EX. POWER POLE (R & RELOC BY OTHERS)
STORM INLET RIM=661.22 SE 12" CMP=658.17 NW 12" RCP=657.32 15L4-040D
SPIRE (R&RELOC BY OTHERS)
EX. STORM INLET (UIP) 15L4-0279D
TCE
FIBER (R&RELOC BY OTHERS)
SPIRE (R&RELOC BY OTHERS)
JODY INDUSTRIAL CT.
PAGE INDUSTRIAL BLVD.

7
FIRE CHICKEN
BAIKS PAGE LLC
2022040800693
10200 PAGE AVE.

8
SCOOTER'S COFFEE
LIRON AVNERI
24588/5108
10190 PAGE AVE.

ROUTE D UTILITY PLAN
SHEET 12 OF 28

c:\bmcd_lib\pw_connect\trn\d0171707\076_UP_SL0186_I20_12.dgn 9:35:43 AM 12/17/2025

STATE OF MISSOURI
ALLISON M. BRUNER
NUMBER PE-2019005896
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED, AND DATED ELECTRONICALLY
Digitally signed by Allison Bruner
Date: 2025.12.19 09:38:42-06'00'

DATE PREPARED
12/17/2025

ROUTE	STATE
D	MO
DISTRICT	SHEET NO.
SL	76

COUNTY
ST. LOUIS
JOB NO.
JSL0186
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)

Burns & McDonnell Engineering Co., Inc.
425 South Woods Mill Road
Chesterfield, Missouri 63017
314-682-1500
Certificate of Authority
No. : 000165
BMcD Project No. 170361

NO PROPOSED
IMPROVEMENTS THIS SHEET

SCALE
0 20 40 60

EX. INLET (UIP)
15L4-017D

EX. INLET (UIP)
15L4-020D

EX. MANHOLE (UIP)
15L4-018D

EX. MANHOLE (UIP)
15L4-068S

EXIST. R/W

EX. INLET (UIP)
15L4-242D

EX. INLET (UIP)
15L4-243D

EX. MANHOLE
(UIP)
15L4-067S

80

SURVEY ℄ ROUTE D

S81°09'02"E

S81°09'02"E

MATCHLINE STA. 75+71

MATCHLINE STA. 81+21

EX. INLET (UIP)
15L4-021D

EXIST. R/W

ENTERPRISE

LOTSIE BLVD.

ROUTE D UTILITY PLAN
SHEET 13 OF 28

ALLISON M. BRUNER
NUMBER
PE-2019005896
PROFESSIONAL ENGINEER
STATE OF MISSOURI

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12/17/2025

ROUTE	STATE
D	MO
DISTRICT	SHEET NO.
SL	77

COUNTY
ST. LOUIS

JOB NO.
JSL0186

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)

Burns & McDonnell Engineering Co., Inc.
425 South Woods Mill Road
Chesterfield, Missouri 63017
314-682-1500
Certificate of Authority
No. : 000165
BMcD Project No. 170361

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NO PROPOSED
IMPROVEMENTS THIS SHEET

SCALE
0 20 40 60

SIMS AVE.

EX. MANHOLE (UIP)
15L4-066S

EXIST. R/W

SURVEY ℄ ROUTE D

PC STA 82+27.70 R2

PT STA 84+89.53 R2

S65°53'02"E

MATCHLINE STA. 81+21

MATCHLINE STA. 86+71

EXIST. R/W

PI 83+59.40
PC 82+27.70
PT 84+89.53
Δ 15°16'0.0" (RT)
D 5°49'50.9"
L 261.83' (ARC)
T 131.69'
R 982.64'

ROUTE D UTILITY PLAN
SHEET 14 OF 28

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ALLISON M. BRUNER
NUMBER PE-2019005896
PROFESSIONAL ENGINEER
STATE OF MISSOURI

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ROUTE	STATE
D	MO
DISTRICT	SHEET NO.
SL	78

COUNTY
ST. LOUIS

JOB NO.
JSL0186

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)

Burns & McDonnell Engineering Co., Inc.
425 South Woods Mill Road
Chesterfield, Missouri 63017
314-682-1500
Certificate of Authority
No. : 000165
BMcD Project No. 170361

SCALE
0 20 40 60

NO PROPOSED
IMPROVEMENTS THIS SHEET

90

MATCHLINE STA. 86+71

MATCHLINE STA. 92+21

EXIST. R/W

EX. INLET (UIP)
15L4-035D

SURVEY ℄ ROUTE D

S65°53'02"E

EX. INLET (UIP)
15L1-154D

EXIST. R/W

ROUTE D UTILITY PLAN
SHEET 15 OF 28

c:\bmcd_lib\pw_connect\trn\d0171707\079_UP_SL0186_I20_15.dgn 9:36:19 AM 12/17/2025

STATE OF MISSOURI
ALLISON M. BRUNER
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PROFESSIONAL ENGINEER

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DATE PREPARED
12/17/2025

ROUTE	STATE
D	MO
DISTRICT	SHEET NO.
SL	79

COUNTY
ST. LOUIS

JOB NO.
JSL0186

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)

Burns & McDonnell Engineering Co., Inc.
425 South Woods Mill Road
Chesterfield, Missouri 63017
314-682-1500

Certificate of Authority
No. : 000165

BMcD Project No. 170361

NO PROPOSED
IMPROVEMENTS THIS SHEET

SCALE
0 20 40 60

95

EXIST. R/W

SURVEY ℄ ROUTE D

S65°53'02"E

MATCHLINE STA. 92+21

MATCHLINE STA. 97+71

PC STA 97+06.77 R2

EXIST. R/W

U-HAUL

ROUTE D UTILITY PLAN
SHEET 16 OF 28

ALLISON M. BRUNER
NUMBER PE-2019005896
PROFESSIONAL ENGINEER
STATE OF MISSOURI

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DATE PREPARED
12/17/2025

ROUTE	STATE
D	MO
DISTRICT	SHEET NO.
SL	80

COUNTY
ST. LOUIS

JOB NO.
JSL0186

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)

Burns & McDonnell Engineering Co., Inc.
425 South Woods Mill Road
Chesterfield, Missouri 63017
314-682-1500
Certificate of Authority
No. : 000165

BMcD Project No. 170361

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PI 98+22.10
PC 97+06.77
PT 99+36.32
Δ 13°46'0.0" (LT)
D 5°59'50.1"
L 229.55' (ARC)
T 115.33'
R 955.37'

BP GAS STATION
NATIONAL RETAIL PROPERTIES LP
17741/1349
9791 PAGE AVE.

10

9

AF ALAM LLC
19622/510
9800 PAGE AVE.

MATCHLINE STA. 97+71

MATCHLINE STA. 103+21

100

6' SIDEWALK
EXIST. RAMP (R)
EXIST. SIGN (DND)
EXIST. R/W
TIE INTO EX. SIDEWALK
PT STA 99+36.32
R2
SURVEY ℄ ROUTE D
MODOT FIBER (UIP)
EXIST. SIGNAL POLE (UIP)
EXIST. LUMEN MANHOLE (DND)
EXIST. PED. POLE (UIP)
EX. INLET (UIP) 16L1-0401D
TIE INTO EX. SIDEWALK
EX. SIDEWALK RAMP (REMOVE AND RECONSTRUCT 6' SIDEWALK ON EX. ROW)
+93.09 LT 56.00'
+93.09 LT 50.00'
B
S79°39'02"E
FIBER (DND)
EX. INLET (UIP) 16L1-139D
EX. INLET (UIP) 16L1-214D
6' RAMP
EXIST. R/W
EX. INLET (UIP) 16L1-216D
EX. INLET (UIP) 16L1-0446D
EX. INLET (UIP) 16L1-0447D
TYPE B CURB AND GUTTER (TYP)
EXIST. EASEMENT
AT&T (R&RELOC BY OTHERS)
TYPE 1 PARALLEL CURB RAMP
EX. MAST ARM (UIP)
EX. PULLBOX (UIP)
EX. CABINET (UIP)
EX. CURB (R)
EX. SIGN (DND)
5' SIDEWALK
5' SIDEWALK
DIELMAN RD.
EXIST. MODOT MANHOLE (UIP)
EXIST. EASEMENT
AT&T (UIP)
5' SIDEWALK

SEE MODOT PROJECT JSL0027
FOR OVERHEAD AND UTILITY
POLE ADJUSTMENTS

ROUTE D UTILITY PLAN
SHEET 17 OF 28

STATE OF MISSOURI
ALLISON M. BRUNER
NUMBER PE-2019005896
PROFESSIONAL ENGINEER

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Date: 2025.12.19 09:38:42-06'00'

DATE PREPARED
12/17/2025

ROUTE	STATE
D	MO
DISTRICT	SHEET NO.
SL	81

COUNTY
ST. LOUIS

JOB NO.
JSL0186

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)

Burns & McDonnell Engineering Co., Inc.
425 South Woods Mill Road
Chesterfield, Missouri 63017
314-682-1500
Certificate of Authority
No. : 000165
BMcD Project No. 170361

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SCALE
0 20 40 60

BP GAS STATION
NATIONAL RETAIL
PROPERTIES LP
17741/1349
9791 PAGE AVE.
10

BC3 LLC
21608/3085
9677 PAGE AVE.
21

AYCHIEN SHEE
REVOCABLE LIVING
TRUST
20695/1182
9707 PAGE AVE.
22

ALAA ALQAZAHA
2023081400039
9605 PAGE AVE.
23

105

EX. MANHOLE (DND)
15L1-0403D
TCE
EX. WATER VALVE (DND)
EX. SIDEWALK RAMP (REMOVE AND RECONSTRUCT ON EX. ROW)
+81.94
LT 56.00'
+81.94
LT 50.00'
TIE INTO EX. SIDEWALK
TCE
+03.31
LT 55.00'
+03.31
LT 50.00'
EX. BOLLARD (R)
LUMEN (DND)
EXIST. R/W
+62.02
LT 50.00'
EXIST. GAS VALVE (ATG)
+62.02
LT 55.00'
TCE
BEGIN 12-IN REINFORCED CURB
+99.93
LT 48.00'
+01.93
LT 55.00'
EX. WOODEN RETAINING WALL (R-54 L.F.)
END 12-IN REINFORCED CURB
+46.13
LT 39.50'

CE + 32.95 LT.
W = 37.1'
CE + 81.56 LT.
W = 34.1'
CE + 64.28 LT.
W = 77.5'
CE + 59.94 LT.
W = 20.0'
CE + 22.12 LT.
W = 20.0'
CE + 81.93 LT.
W = 36.5'
CE + 54.56 LT.
W = 15.8'

EX. GAS VALVE (ATG)
TIE INTO EX. SIDEWALK
EX. HYDRANT (DND)
EX. WATER VALVE (ATG)
TYPE B CURB AND GUTTER (TYP.)
6' SIDEWALK (TYP)
12-IN REINFORCED CURB

MATCHLINE STA. 103+21

S79°39'02"E

SURVEY ℄ ROUTE D

S79°09'02"E

EQUATION:
STA 107+73.15 BK =
STA 107+72.95 POT

MATCHLINE STA. 108+71

EXIST. EASEMENT

EXIST. R/W

LOT 2

AUTOZONE

ROUTE D UTILITY PLAN
SHEET 18 OF 28

c:\bmcd_lib\pw_connect\trn\d0171707\082_UP_SL0186_I20_18.dgn 9:36:53 AM 12/17/2025

STATE OF MISSOURI
ALLISON M. BRUNER
NUMBER PE-2019005896
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED, AND DATED ELECTRONICALLY
Digitally signed by Allison Bruner
Date: 2025.12.19 09:38:42-06'00'

DATE PREPARED
12/17/2025

ROUTE	STATE
D	MO
DISTRICT	SHEET NO.
SL	82

COUNTY
ST. LOUIS
JOB NO.
JSL0186
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)

Burns & McDonnell Engineering Co., Inc.
425 South Woods Mill Road
Chesterfield, Missouri 63017
314-682-1500
Certificate of Authority
No. : 000165
BMcD Project No. 170361

SCALE
0 20 40 60

SPENCER AVE.

EX. MANHOLE (UIP) 16L2-052S
EX. 12" RCP (UIP)
EX. STORM INLET (DND) GRATE=622.43 SE 12" RCP=619.04 16L2-084D
LUMEN MANHOLE (DND)
EX. SIGN (DND)
6' SIDEWALK
LUMEN (DND)
EX. PUSH BUTTON STANCHION (UIP)
TYPE 1 PARALLEL CURB RAMP
EX. PULL BOX (ATG)
EX. MAST ARM (UIP)
EX. LIGHT (DND)
6' SIDEWALK (TYP)
TIE INTO EX. SIDEWALK
EX. PUSH BUTTON STANCHION (UIP)
EX. LIGHT (DND)
TYPE B CURB AND GUTTER (TYP)
6' SIDEWALK (TYP)
EX. 18" RCP (UIP)
EX. SANITARY MANHOLE (ATG) 16L2-053S MSD INSPECTION REQUIRED
EXIST. R/W
EXIST. LANDSCAPE (DND)
SEE SPECIAL SHEET 'ADA SIDEWALK AND CURB RAMP DETAILS'
EX. LIGHT (DND)

RT 31.43 LT. W = 21.5'
RT 88.86 LT. W = 11.3'
RT 37.47 LT. W = 12.1'
RT 87.39 LT. W = 11.1'
RT 63.78 LT. W = 16.9'
RT 91.29 LT. W = 10.8'

INLET 2L. CONVERT GRATE INLET TO TYPE X INLET (SEE CULVERT SECTION SHEET) (MODOT MAINTAIN) +31.25, LT 36.39'
TIE INTO EX. SIDEWALK
STORM INLET GRATE=619.66 NW 12" RCP=616.31 NE 12" RCP=616.11 (UNKNOWN OUTLET) SE 18" RCP=614.91 16L2-083D
S79°09'02"E
SURVEY ℄ ROUTE D

FIBER (DND) BLENDED TRANSITION
EXIST. PED. POLE (R) +60.55 RT 40.41'
EXIST. PED. POLE (UIP)
AT&T (DND)
TIE INTO EX. SIDEWALK
EX. PULL BOX (UIP)
EX. SIGN (UIP)
MCI (R & RELOC BY OTHERS)
CHARTER (R&RELOC BY OTHERS)
EXIST. R/W
CHARTER (DND)
TIE INTO EX. SIDEWALK
REPLACE EX. PULL BOX TOP
6' SIDEWALK (TYP)
SPIRE (R & RELOC BY OTHERS)
EX. PULL BOX (ATG)
EX. POWER POLES (DND)

MATCHLINE STA. 108+71
MATCHLINE STA. 114+21

ROUTE D UTILITY PLAN
SHEET 19 OF 28

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STATE OF MISSOURI
ALLISON M. BRUNER
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PROFESSIONAL ENGINEER
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Date: 2025.12.19 09:38:42-06'00'

DATE PREPARED 12/17/2025
ROUTE D | STATE MO
DISTRICT SL | SHEET NO. 83
COUNTY ST. LOUIS
JOB NO. JSL0186
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)

Burns & McDonnell Engineering Co., Inc.
425 South Woods Mill Road
Chesterfield, Missouri 63017
314-682-1500
Certificate of Authority No.: 000165
BMcD Project No. 170361

SCALE
0 20 40 60

PI 118+89.02
PC 116+99.78
PT 120+78.12
Δ 3°47'0.0" (LT)
D 0°59'59.9"
L 378.34' (ARC)
T 189.24'
R 5,729.65'

EX. CURB (UIP)
EX. CURB (R)
EX. INLET (UIP)
GRATE=596.67
NW 18" RCP=592.20
SE 18" RCP=592.02
16L2-081D
EX. SANITARY MANHOLE (ATG)
16L2-054S
MSD INSPECTION REQUIRED
EXIST. R/W
TYPE S CURB
EXIST. PARKING BLOCKS (R)
TYPE B CURB AND GUTTER (TYP)
EX. GAS VALVE (DND)
EX. SIGN (UIP)
EX. INLET (ATG)
16L2-080D
EX. LANDSCPAING (DND)(TYP)
PAGEWOOD AVE.
PAGEWOOD AVE.
EX. LIGHT (DND)
EX. SIGN (UIP)
EX. INLET (UIP)
16L2-079D
115
4' ADA PATH
CE + 51.69 LT.
W = 19.6'
CE + 03.72 LT.
W = 20.0'
CE + 77.02 LT.
W = 40.0'
CE + 63.48 LT.
W = 42.8'
CE + 45.27 LT.
W = 60.2'
6' SIDEWALK
PC STA 116+99.78
R3
4'
+47.73
LT 34.18'
EX. FIRE HYDRANT (RELOC BY OTHERS)
EX. 18" RCP (UIP)
EX. LANDSCAPE (DND)
S79°09'02"E
SURVEY ℄ ROUTE D
MATCHLINE STA. 114+21
MATCHLINE STA. 119+71
EX. INLET (UIP)
16L2-226D
EX. INLET (UIP)
16L2-227D
EXIST. R/W
EX. INLET (UIP)
16L2-0381D
EX. INLET (UIP)
16L2-0383D
EX. INLET (UIP)
16L2-151D
SEE SURVEY NOTES
EX. INLET (UIP)
16L2-134D
RIDDLE CT.
RIDDLE CT

ROUTE D UTILITY PLAN
SHEET 20 OF 28

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STATE OF MISSOURI
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DATE PREPARED
12/17/2025

ROUTE	STATE
D	MO
DISTRICT	SHEET NO.
SL	84

COUNTY
ST. LOUIS
JOB NO.
JSL0186
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)

Burns & McDonnell Engineering Co., Inc.
425 South Woods Mill Road
Chesterfield, Missouri 63017
314-682-1500
Certificate of Authority
No. : 000165
BMcD Project No. 170361

SCALE
0 20 40 60

EX. GUARDRAIL (R)
BEGIN CHAINLINK FENCE +36.73
PROP. CHAINLINK FENCE
EX. SIGN (UIP)
12-IN. REINFORCED CURB
END CHAINLINK FENCE +52.13
EX. GUARDRAIL IN PARKING LOT (UIP)
EX. TREE (DND)
CE + 97.11 LT.
W = 26.7'
120
EXIST. R/W
PT STA 120+78.13
R3
CE + 79.96 LT.
W = 22.7'
CE + 31.35 LT.
W = 18.1'
EX INLET (UIP) 16L2-078D
EX. LUMEN MANHOLE (DND)
EX. LUMEN MANHOLE (UIP)
EX. TREE (DND)
CE + 97.64 LT.
W = 40.0'
EX INLET (DND) 16L2-075D
EX. LIGHT AND GUY WIRE (DND)
EX. TREE (DND)
CE + 55.02 LT.
W = 30.1'
EX. CURB (UIP)
BURNS AVE.
EXIST. FIRE HYDRANT (UIP)
EX. INLET (DND) 16L2-135D
LUMEN (DND)
EX. INLET (DND) 16L2-136D
EX. SIGN (DND)
EX. LANDSCAPING (R)
EX. LIGHT (DND)
EX. GAS VALVE (ATG)
CE + 11.58 LT.
W = 43.0'
CE + 86.06 LT.
W = 38.7'
CE + 56.34 LT.
W = 30.2'
6' SIDEWALK (TYP)
CE + 96.47 LT.
W = 19.4'
125
MATCHLINE STA. 119+71
MATCHLINE STA. 125+21
TYPE B CURB AND GUTTER (TYP)
EX. SIGN (UIP)
TYPE 2 PARALLEL CURB RAMP
EX. MANHOLE (DND) 16L2-072D
EX. CURB INLET (ATG) 16L2-148D
4' ADA PATH
EX. CURB (R)
EX. MANHOLE (UIP) 16L2-074D
EX. HEADWALL (UIP) 16L2-0294D
EX. FENCE (DND)
RELOCATE EX. SIGN
EX. CONCRETE CHANNEL (DND)
SURVEY ℄ ROUTE D
EX. MANHOLE (DND) 16L2-041S
S82°56'02"E
EX. PARKING BOLLARD (R)
EX. INLET (UIP) 16L2-131D
EX. INLET (DND) 16L2-133D
EX. HEADWALL (DND) 16L2-0394D
18-IN. REINFORCED CURB
EXIST. R/W
EX. MANHOLE (DND) 16L2-128S
EX. MANHOLE (DND) 16L2-042S
BURNS AVE.
CE + 60.00 RT
W = 28.4'
CE + 12.90 RT
W = 35.9'
CE + 03.59 RT
W = 23.2'
EX. POWER POLE (DND)
EX. TELECOMMUNICATIONS MANHOLE (DND)
EX. AT&T MANHOLE (DND)
EX. POWER POLE (DND)
EX. CURB (R)
EX. SIGN (DND)
EX. PARKING BOLLARD (R)

ROUTE D UTILITY PLAN
SHEET 21 OF 28

STATE OF MISSOURI
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PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED, AND DATED ELECTRONICALLY
Digitally signed by Allison Bruner
Date: 2025.12.19 09:38:43-06'00'

DATE PREPARED
12/17/2025

ROUTE	STATE
D	MO
DISTRICT	SHEET NO.
SL	85

COUNTY
ST. LOUIS
JOB NO.
JSL0186
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)

Burns & McDonnell Engineering Co., Inc.
425 South Woods Mill Road
Chesterfield, Missouri 63017
314-682-1500
Certificate of Authority No. : 000165
BMcD Project No. 170361

c:\bmcd_lib\pw_connect\trn\d0171707\085_UP_SL0186_I20_21.dgn 9:37:30 AM 12/17/2025

SCALE
0 20 40 60

MARY MORENO
#2023070600421
9451 PAGE AVE.

11

JAMIE
CASTROGIOVANNI
18994/2728
9449 PAGE AVE.

12

SEE SPECIAL DETAIL 'ADA SIDEWALK AND CURB RAMP DETAILS'

EXIST. R/W

EX. GAS VALVE (UIP)

EX. POWER POLE (DND)

LUMEN (DND)

TYPE B CURB AND GUTTER (TYP.)

6' SIDWALK (TYP)

EX. MANHOLE (DND) 16L2-0268D

SEE SPECIAL DETAIL 'ADA SIDEWALK AND CURB RAMP DETAILS'

EX. MANHOLE (DND) 16L2-020S

SEE SPECIAL DETAIL 'ADA SIDEWALK AND CURB RAMP DETAILS'

EX. FIRE HYDRANT (DND)

EX. WATER VALVE (DND)

EX. WATER VALVE (UIP)

EX. CURB (R)

RE + 71.15 LT.
W = 60.0'

RE + 48.06 LT.
W = 9.1'

RE + 95.50 LT.
W = 35.7'

RE + 39.04 LT.
W = 11.5'

RE + 92.19 LT.
W = 11.7'

RE + 41.49 LT.
W = 10.98'

RE + 07.07 LT.
W = 10.6'

RE + 59.20 LT.
W = 25.0'

130

RE + 10.77 LT.
W = 38.4'

RE + 50.00 LT.
W = 43.2'

MATCHLINE STA. 125+21

MATCHLINE STA. 130+71

EX. GAS VALVE (ATG)

EX. CURB (R)

EX. MANHOLE (DND) 16L2-021S

SURVEY ℄ ROUTE D

S82°56'02"E

TYPE A CURB AND GUTTER

EX. MANHOLE (ATG) (16L2-019S). MSD INSPECTION REQUIRED

CE + 58.36 RT.
W = 24.0'

CE + 09.18 RT.
W = 24.9'

CE + 65.28 RT.
W = 19.5'

+40.81
RT 58.00'

+35.01
RT 50.00'

+35.04
RT 58.00'

EX. BOLLARD (UIP)

EX. SIGN (DND)

EX. POWER POLE (DND)

EX. SIGN (DND)

13

PAGE EQUITY LLC
23718/1262
9460 PAGE AVE.

EXIST. R/W

EX. GAS VALVE (UIP)

EX. CURB (R)

EX. POWER POLE (DND)

TYPE B CURB AND GUTTER (TYP)

EX. POWER POLE (DND)

TIE INTO EX. SIDEWALK

EX. SIGN (DND)

LIBERTY AVE.

ROUTE D UTILITY PLAN
SHEET 22 OF 28

c:\bmcd_lib\pw_connect\trn\d0171707\086_UP_SL0186_I20_22.dgn 9:37:42 AM 12/17/2025

STATE OF MISSOURI
ALLISON M. BRUNER
NUMBER PE-2019005896
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED, AND DATED ELECTRONICALLY
Digitally signed by Allison Bruner
Date: 2025.12.19 09:38:43-06'00'

DATE PREPARED
12/17/2025

ROUTE	STATE
D	MO
DISTRICT	SHEET NO.
SL	86

COUNTY
ST. LOUIS

JOB NO.
JSL0186

CONTRACT ID.

PROJECT NO.

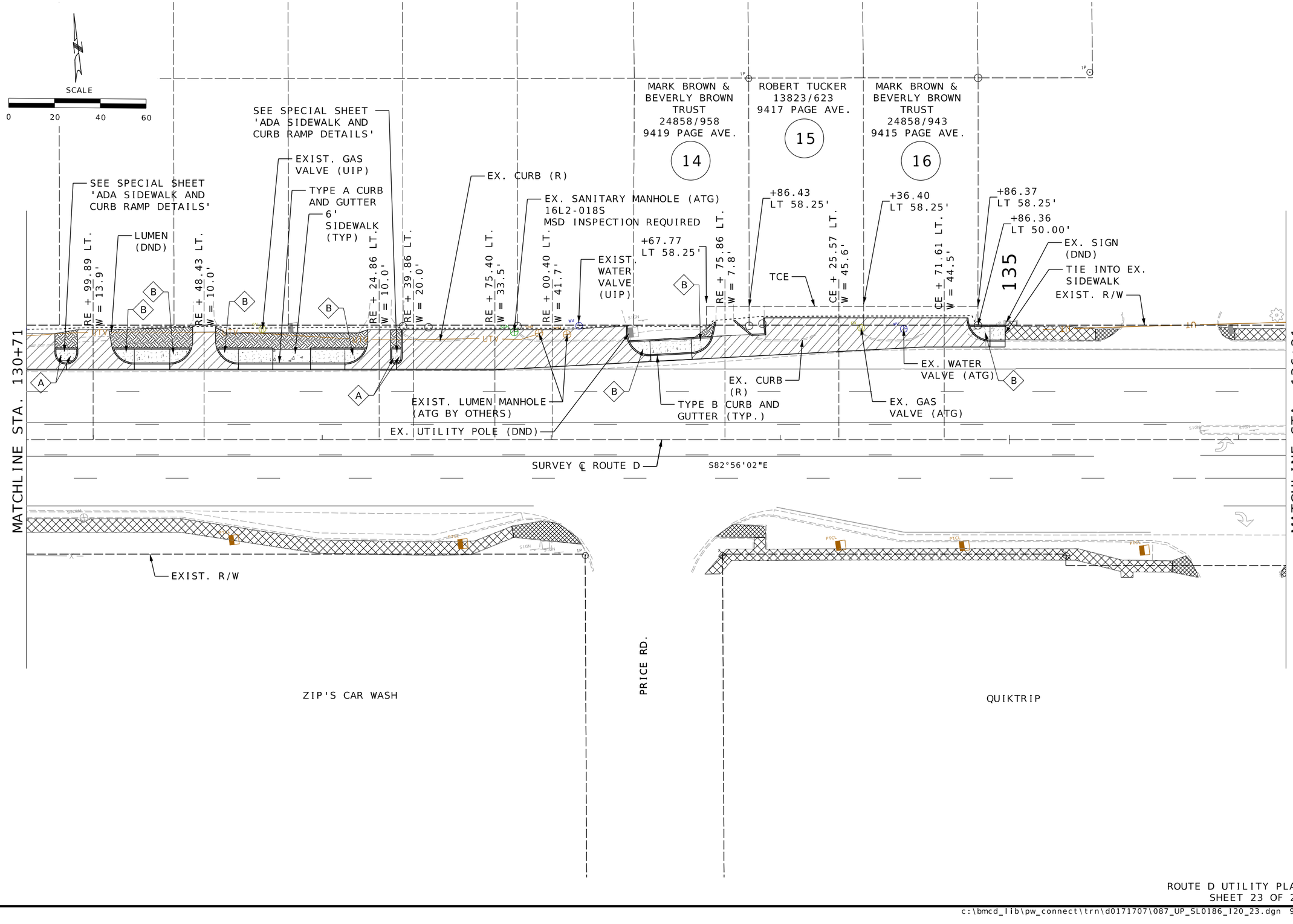
BRIDGE NO.

DATE	DESCRIPTION

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

Burns & McDonnell Engineering Co., Inc.
425 South Woods Mill Road
Chesterfield, Missouri 63017
314-682-1500
Certificate of Authority
No. : 000165

BMcD Project No. 170361



ROUTE D UTILITY PLAN
SHEET 23 OF 28

ALLISON M. BRUNER
NUMBER PE-2019005896
PROFESSIONAL ENGINEER
STATE OF MISSOURI

THIS SHEET HAS BEEN SIGNED, SEALED, AND DATED ELECTRONICALLY

Digitally signed by Allison Bruner
Date: 2025.12.19 09:38:43-06'00'

DATE PREPARED
12/17/2025

ROUTE	STATE
D	MO
DISTRICT	SHEET NO.
SL	87

COUNTY
ST. LOUIS

JOB NO.
JSL0186

CONTRACT ID.

PROJECT NO.

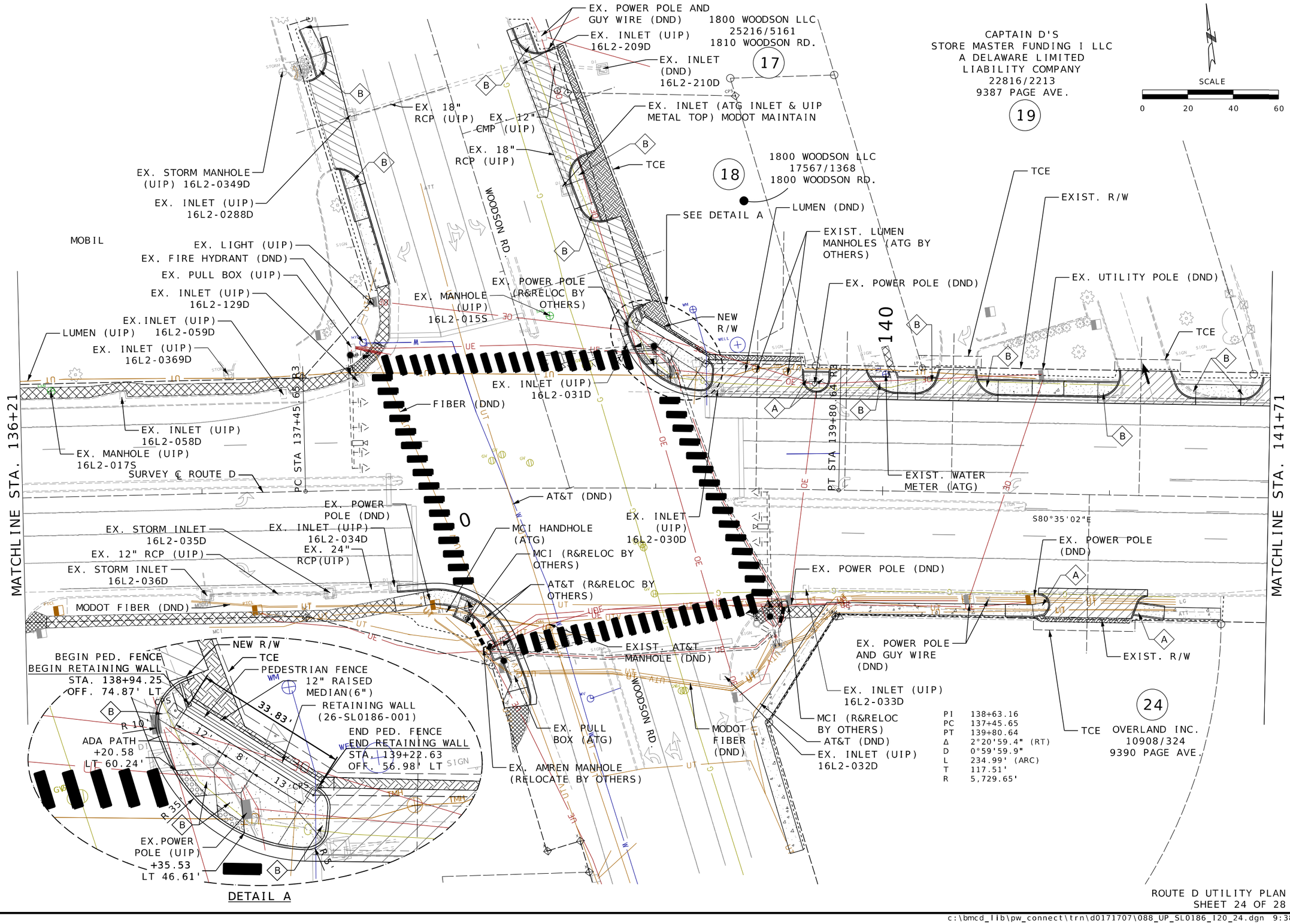
BRIDGE NO.

DESCRIPTION	DATE

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

Burns & McDonnell Engineering Co., Inc.
425 South Woods Mill Road
Chesterfield, Missouri 63017
314-682-1500
Certificate of Authority
No. : 000165
BMcD Project No. 170361

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STATE OF MISSOURI
ALLISON M. BRUNER
NUMBER PE-2019005896
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED, AND DATED ELECTRONICALLY
Digitally signed by Allison Bruner
Date: 2025.12.19 09:38:43-06'00'

DATE PREPARED 12/17/2025

ROUTE	STATE
D	MO
DISTRICT	SHEET NO.
SL	88

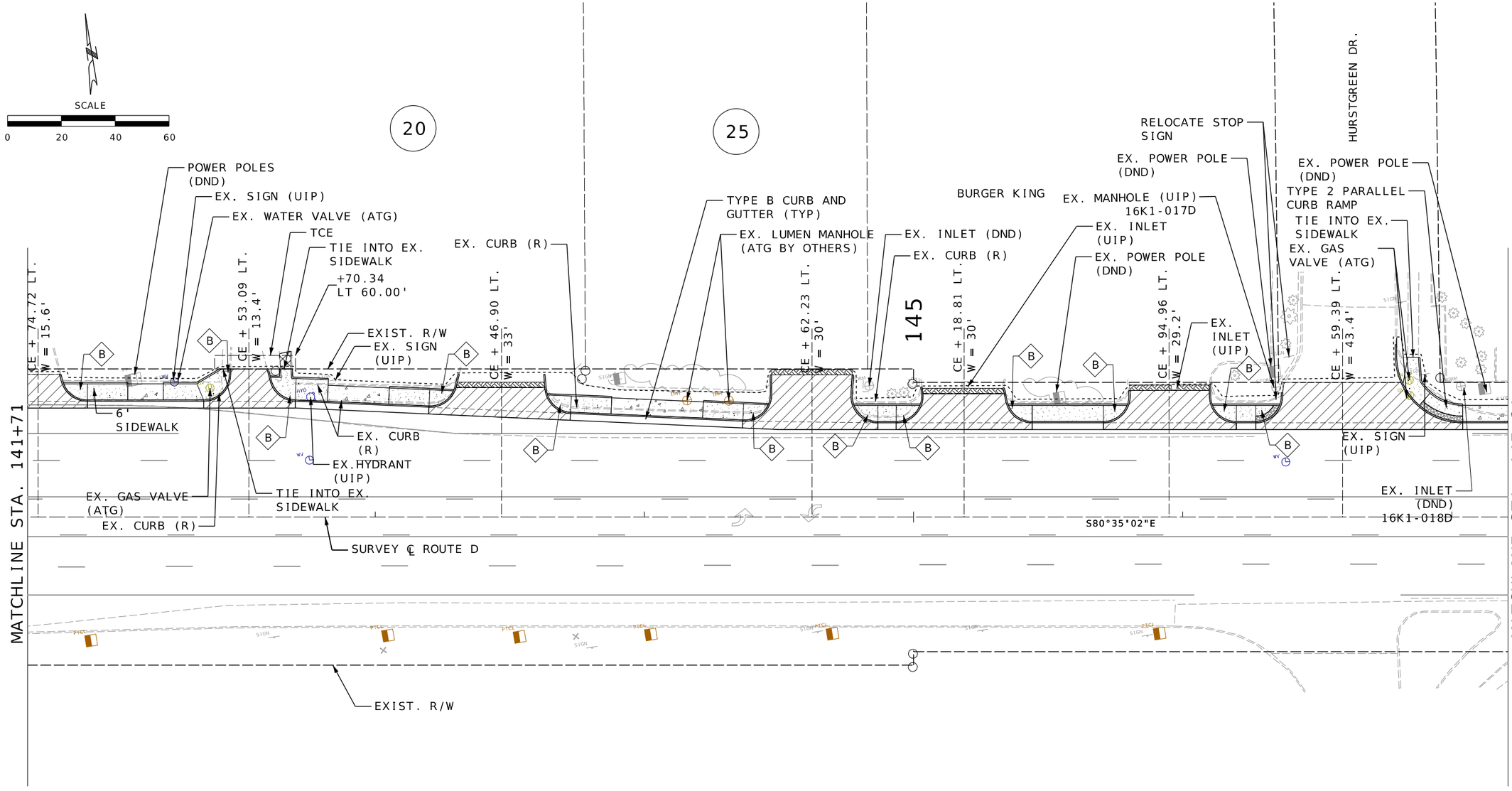
COUNTY: ST. LOUIS
JOB NO.: JSL0186
CONTRACT ID.:
PROJECT NO.:
BRIDGE NO.:

DESCRIPTION | DATE

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

Burns & McDonnell Engineering Co., Inc.
425 South Woods Mill Road
Chesterfield, Missouri 63017
314-682-1500
Certificate of Authority No. : 000165
BMcD Project No. 170361

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ROUTE D UTILITY PLAN
SHEET 25 OF 28

ALLISON M. BRUNER NUMBER PE-2019005896
PROFESSIONAL ENGINEER
STATE OF MISSOURI
THIS SHEET HAS BEEN SIGNED, SEALED, AND DATED ELECTRONICALLY
Digitally signed by Allison Bruner
Date: 2025.12.19 09:38:43-06'00'

DATE PREPARED 12/17/2025
ROUTE D | STATE MO
DISTRICT SL | SHEET NO. 89
COUNTY ST. LOUIS
JOB NO. JSL0186
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)

Burns & McDonnell Engineering Co., Inc.
425 South Woods Mill Road
Chesterfield, Missouri 63017
314-682-1500
Certificate of Authority No. : 000165
BMcD Project No. 170361

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SCALE

0 20 40 60

TOTAL ACCESS URGENT CARE

PI 152+94.15
PC 151+37.68
PT 154+49.93
Δ 9°22'0.0" (LT)
D 2°59'58.7"
L 312.26' (ARC)
T 156.48'
R 1,910.08'

EX. SIGN (UIP)
6' SIDEWALK
EX. INLET (ATG) 16K1-021D
TYPE B CURB AND GUTTER (TYP)
EX. MANHOLE (UIP) 16K1-019D
EX. MANHOLE (UIP) 16K1-020D
CE + 67.64 LT. W = 40.0'
EX. CURB (R)
POWER POLE (DND)
EX. MANHOLE (DND) 16K1-022D
CE + 18.34 LT. W = 31.0'
EXIST. DROP INLET (ATG) 16K1-023D
EX. DROP INLET (ATG)
150
EX. INLET (DND) 16K1-024D
EX. INLET (DND) 16K1-025D
EXIST. R/W
PC STA 151+37.68
MATCHLINE STA. 147+21
MATCHLINE STA. 152+71
SURVEY ℄ ROUTE D
S80°35'02"E
EX. INLET (DND) 16K1-003D
END PROJECT STA. 149+57.16
EXIST. R/W
EX. MANHOLE (DND) 16K1-0240D
MCDONALD'S

ROUTE D UTILITY PLAN
SHEET 26 OF 28

ALLISON M. BRUNER NUMBER PE-2019005896
STATE OF MISSOURI PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED, AND DATED ELECTRONICALLY
Digitally signed by Allison Bruner
Date: 2025.12.19 09:38:43-06'00'

DATE PREPARED 12/17/2025
ROUTE D | STATE MO
DISTRICT SL | SHEET NO. 90
COUNTY ST. LOUIS
JOB NO. JSL0186
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)

Burns & McDonnell Engineering Co., Inc.
425 South Woods Mill Road
Chesterfield, Missouri 63017
314-682-1500
Certificate of Authority No.: 000165
BMcD Project No. 170361

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WENDY'S

NO PROPOSED
IMPROVEMENTS THIS SHEET

HOME DEPOT

SCALE
0 20 40 60

INNERBELT BUSINESS
CENTER DR.

EXIST. R/W

EX. INLET (UIP)
16K1-029D

EX. INLET (UIP)
16K1-031D

EX. INLET (UIP)
16K1-032D

EX. INLET (UIP)
16K1-033D

EX. INLET (UIP)
16K1-028D

EX. MANHOLE (UIP)
16K1-005S

EX. INLET (UIP)
16K1-027D

EX. INLET (UIP)
16K1-023D

EX. MANHOLE (UIP)
16K1-004S

7 UP DR.

PT STA 154+49.93 R3

155

MATCHLINE STA. 152+71

MATCHLINE STA. 158+21

S89°57'02"E

SURVEY ℄ ROUTE D

EXIST. R/W

DR. PEPPER SNAPPLE GROUP

ROUTE D UTILITY PLAN
SHEET 27 OF 28

ALLISON M. BRUNER
NUMBER
PE-2019005896
PROFESSIONAL ENGINEER
STATE OF MISSOURI

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12/17/2025

ROUTE	STATE
D	MO
DISTRICT	SHEET NO.
SL	91

COUNTY
ST. LOUIS

JOB NO.
JSL0186

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)

Burns & McDonnell Engineering Co., Inc.
425 South Woods Mill Road
Chesterfield, Missouri 63017
314-682-1500
Certificate of Authority
No. : 000165
BMcD Project No. 170361

NO PROPOSED
IMPROVEMENTS THIS SHEET

SCALE
0 20 40 60

I-70

160

EX. HEADWALL (UIP)
16K1-091D

MATCHLINE STA. 158+21

MATCHLINE STA. 163+71

S89°57'02"E

SURVEY ℄ ROUTE D

EX. MANHOLE (UIP)
16K1-094D

EX. INLET (UIP)
16K1-093D

EX. MANHOLE (UIP)
16K1-023S

EX. INLET (UIP)
16K1-086D

EX. INLET (UIP)
16K1-085D

EX. INLET (UIP)
16K1-084D

EX. MANHOLE (UIP)
16K1-022S

EX. MANHOLE (UIP)
16K1-021S

EX. INLET (UIP)
16K1-078D

EX. INLET (UIP)
16K1-075D

EX. INLET (UIP)
16K1-076D

ROUTE D UTILITY PLAN
SHEET 28 OF 28

STATE OF MISSOURI
ALLISON M. BRUNER
NUMBER PE-2019005896
PROFESSIONAL ENGINEER

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DATE PREPARED
12/17/2025

ROUTE	STATE
D	MO
DISTRICT	SHEET NO.
SL	92

COUNTY
ST. LOUIS

JOB NO.
JSL0186

CONTRACT ID.

PROJECT NO.

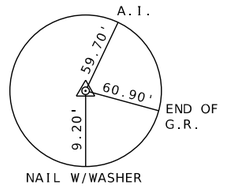
BRIDGE NO.

DESCRIPTION	DATE

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

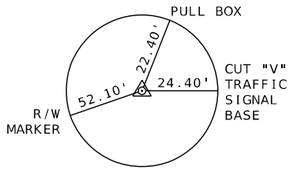
Burns & McDonnell Engineering Co., Inc.
425 South Woods Mill Road
Chesterfield, Missouri 63017
314-682-1500
Certificate of Authority
No. : 000165
BMcD Project No. 170361

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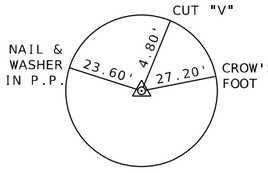
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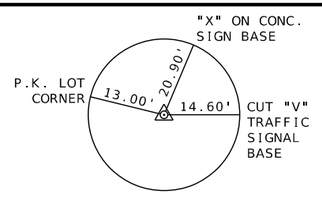
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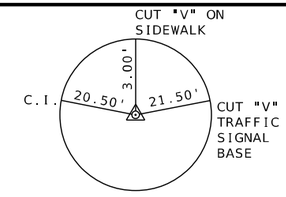
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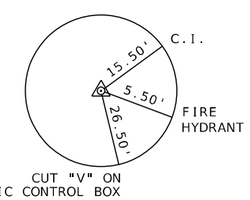
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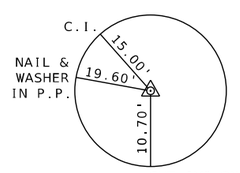
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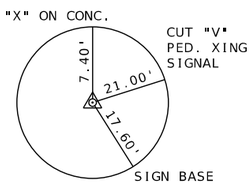
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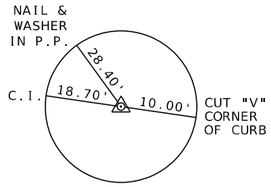
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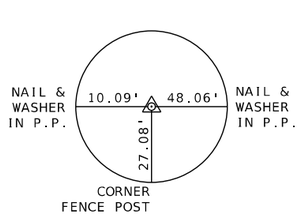
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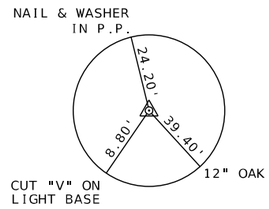
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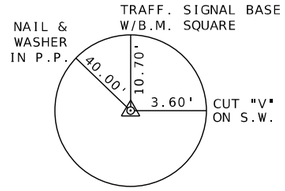
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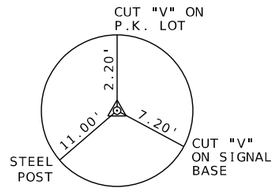
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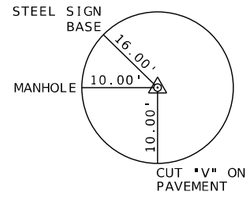
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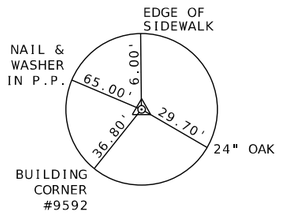
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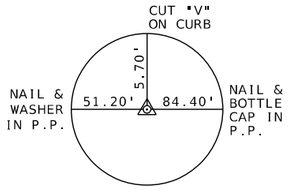
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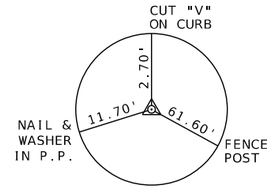
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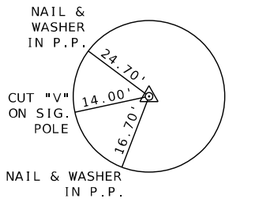
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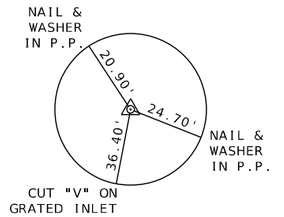
CP #117 - P.K. NAIL

N=1039221.382
E=858858.322
EL.=597.22



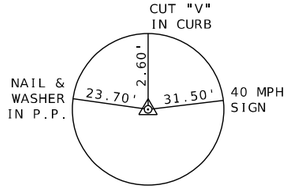
CP #118 - P.K. NAIL

N=1039215.177
E=859743.639
EL.=572.14



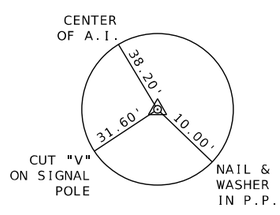
CP #119 - 80D SPIKE

N=1039092.736
E=859620.745
EL.=571.01



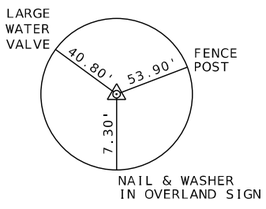
CP #120 - 80D SPIKE

N=1039010.392
E=860300.177
EL.=594.68



CP #121 - 80D SPIKE

N=1038997.384
E=861206.756
EL.=602.98



CP #122 - 80D SPIKE

N=1039017.582
E=861521.500
EL.=605.44

BEARINGS SHOWN HEREON ARE BASED ON GRID NORTH MISSOURI STATE PLANE COORDINATE SYSTEM 1983 EASTERN ZONE. FROM MISSOURI GEOGRAPHIC REFERENCE SYSTEM MODOT BELLEFONT CORS ARP MOBF, N 325,298.422M, E 272023.953M, GRID FACTOR 0.99991849, DATE OF ADJUSTMENT 2011.

THE ELEVATIONS SHOWN HEREON ARE BASED ON NAVD 1988. FROM MISSOURI GEOGRAPHIC REFERENCE SYSTEM MODOT BELLEFONT CORS ARP MOBF, ELEVATION 538.18 FEET, DATE OF ADJUSTMENT 2011

ROUTE D REFERENCE POINTS
SHEET 01 OF 01

STATE OF MISSOURI
ALLISON M. BRUNER
NUMBER PE-2010005896
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED, AND DATED ELECTRONICALLY

Digitally signed by Allison Bruner
Date: 2025.12.19 09:38:43-06'00'

DATE PREPARED
12/17/2025

ROUTE	STATE
D	MO
DISTRICT	SHEET NO.
SL	93

COUNTY
ST. LOUIS

JOB NO.
JSL0186

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)

Burns & McDonnell Engineering Co., Inc.

425 South Woods Mill Road
Chesterfield, Missouri 63017
314-682-1500

Certificate of Authority
No. : 000165

BMcD Project No. 170361

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ALL PROJECT COORDINATES HAVE BEEN PROJECTED FROM THE MISSOURI STATE PLANE COORDINATE (SPC) SYSTEM OF 1983 USING AN AVERAGE PROJECT PROJECTION (GRID TO GROUND) FACTOR. TO GET BACK TO STATE PLANE COORDINATES MULTIPY THE PROJECT COORDINATES BY THE AVERAGE GRID FACTOR AS SHOWN IN THE "REFERENCE CONTROL INFORMATION" PORTION OF THIS TABLE.

PROJECT COORDINATE INFORMATION

COORDINATE SYSTEM	MO STATE PLANE 1983, EASTERN
HORIZONTAL DATUM	NAD 1983
VERTICAL DATUM	NAVD 1983
GEOID MODEL	18 US
ELEVATIONS DETERMINED BY	GPS
PROJECT PROJECTION FACTOR	1.0000878

REFERENCE CONTROL INFORMATION

COORDINATE SYSTEM	BELLEFONT CORS ARP
CONTROL STATION	GPS
DESIGNATION	GPS
CORS_ID	MOBF
PID	DN6075
LATITUDE	38°45'51.51915"
LONGITUDE	90°14'47.69221"
NORTHING (M)	325,298.422
EASTING (M)	272,023.953
ZONE	EASTERN
PROJECT AVERAGE GRID FACTOR	0.9999122

EXAMPLE OF PROJECT COORDINATE TO S.P.C.

PROJECT NORTHING X AVERAGE GRID FACTOR
= STATE PLANE NORTHING
PROJECT EASTING X AVERAGE GRID FACTOR
= STATE PLANE EASTING

EXAMPLE: CONTROL POINT #101
N 1042415.757 X 0.9999122 = N 1042324.23
E 847470.642 X 0.9999122 = E 847396.234

LINEAR UNIT CONVERSION

1 METER = 3.280833333 US SURVEY FEET (USFT)

COORDINATE POINT LISTING

SHEET NO	STATION	LOCATION	OFFSET (USFT)	MODIFIED STATE PLANE (GROUND) NORTHING (US SURVEY FT)	EASTING (US SURVEY FT)	ELEVATION (US SURVEY FT)	DESCRIPTION	GPK POINT ID
PROJECT CONTROL POINTS								
101	9+79.27	RTE D	175.00' LT	1042415.757	847470.642	612.03	80D SPIKE	
102	25+89.65	RTE D	68.13' RT	1041197.228	848630.084	650.10	80D SPIKE	
103	37+73.70	RTE D	50.72' RT	1040955.989	849806.645	683.94	80D SPIKE	
104	37+42.68	RTE D	52.78' LT	1041062.645	849789.306	685.37	80D SPIKE	
105	51+40.58	RTE D	49.29' RT	1040780.195	851162.171	674.84	80D SPIKE	
106	50+13.79	RTE D	93.78' LT	1040938.496	851055.005	671.46	80D SPIKE	
107	60+19.66	RTE D	47.71' RT	1040667.278	852033.634	694.01	80D SPIKE	
108	70+11.16	RTE D	46.48' RT	1040533.079	853016.008	658.13	80D SPIKE	
109	69+33.43	RTE D	60.07' LT	1040649.245	852953.558	659.62	80D SPIKE	
110	82+61.60	RTE D	40.92' RT	1040353.111	854251.176	686.40	80D SPIKE	
111	89+96.27	RTE D	66.12' RT	1040057.625	854911.290	660.50	COPPER WELD	
112	100+73.91	RTE D	80.07' RT	1039656.345	855926.469	630.32	80D SPIKE	
113	101+35.73	RTE D	57.15' LT	1039780.225	856011.944	629.31	80D SPIKE	
114	109+00.11	RTE D	43.69' LT	1039628.475	856761.833	625.64	80D SPIKE	
115	111+69.59	RTE D	50.54' RT	1039485.201	857008.755	613.68	80D SPIKE	
116	123+84.60	RTE D	40.19' RT	1039298.554	858211.850	584.12	80D SPIKE	
117	130+35.65	RTE D	37.25' RT	1039221.382	858858.322	597.22	P.K. NAIL	
118	139+13.05	RTE D	67.97' LT	1039215.177	859743.639	572.14	P.K. NAIL	
119	138+08.89	RTE D	70.78' RT	1039092.736	859620.745	571.01	80D SPIKE	
120	144+94.79	RTE D	43.40' RT	1039010.392	860300.177	594.68	80D SPIKE	
121	154+02.42	RTE D	74.48' LT	1038997.384	861206.756	602.98	80D SPIKE	
122	157+19.00	RTE D	95.52' LT	1039017.582	861521.500	605.44	80D SPIKE	
ALIGNMENTS - ROUTE D								
	0+00.00	RTE D	℄	1042515.596	846335.387		POB	
	9+82.70	RTE D	℄	1042287.032	847291.136		EQNBK / PC	
	8+53.80	RTE D	℄	1042287.032	847291.136		EQNAHD / PC	
	11+43.12	RTE D	36.53' LT	1042219.740	847572.520		PI	
	14+20.22	RTE D	℄	1042025.276	847786.737		PT	
	23+71.76	RTE D	℄	1041385.704	848491.276		PC	
	27+30.79	RTE D	54.91' RT	1041144.378	848757.115		PI	
	30+67.64	RTE D	℄	1041097.827	849113.124		PT	
	59+39.28	RTE D	℄	1040725.514	851960.526		PI	
	74+23.45	RTE D	℄	1040522.819	853430.790		PI	
	82+27.70	RTE D	℄	1040399.094	854225.466		PC	
	83+59.40	RTE D	8.79' LT	1040378.834	854355.592		PI	
	84+89.53	RTE D	℄	1040325.025	854475.791		PT	
	97+06.77	RTE D	℄	1039827.676	855586.789		PC	
	98+22.10	RTE D	6.94' RT	1039780.554	855692.053		PI	
	99+36.32	RTE D	℄	1039759.834	855805.507		PT	
	107+73.15	RTE D	℄	1039609.496	856628.722		EQNBK / PI	
	107+72.95	RTE D	℄	1039609.496	856628.722		EQNAHD / PI	
	116+99.78	RTE D	℄	1039435.040	857538.985		PC	
	118+89.02	RTE D	3.12' RT	1039399.419	857724.840		PI	
	120+78.12	RTE D	℄	1039376.140	857912.641		PT	
	137+45.65	RTE D	℄	1039171.009	859567.505		PC	
	138+63.16	RTE D	1.21' LT	1039156.553	859684.123		PI	
	139+80.64	RTE D	℄	1039137.328	859800.050		PT	
	151+37.68	RTE D	℄	1038948.032	860941.500		PC	
	152+94.15	RTE D	6.40' RT	1038922.431	861095.869		PI	
	154+49.93	RTE D	℄	1038922.296	861252.347		PT	
	168+51.66	RTE D	℄	1038921.086	862654.076		POE	

ROUTE D CONTROL POINTS
SHEET 01 OF 01

MSD BASE MAPS: 15L, 15M, 16K, 16L MSD PERMIT NUMBER: 25MSD-00026

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STATE OF MISSOURI
ALLISON M. BRUNER
NUMBER PE-2019005896
PROFESSIONAL ENGINEER

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Digitally signed by Allison Bruner
Date: 2025.12.19 09:38:43-06'00'

DATE PREPARED
12/17/2025

ROUTE	STATE
D	MO
DISTRICT	SHEET NO.
SL	94

COUNTY
ST. LOUIS

JOB NO.
JSL0186

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)

Burns & McDonnell Engineering Co., Inc.
425 South Woods Mill Road
Chesterfield, Missouri 63017
314-682-1500
Certificate of Authority
No. : 000165

BMcD Project No. 170361

ALL STAGES
PEDESTRIAN TRAFFIC CONTROL

USE PEDESTRIAN SIGNAGE AND BARRICADES TO DETOUR PEDESTRIANS TO THE NEAREST CROSSWALK WHEN CROSSWALKS, RAMPS, SIDEWALKS, AND OTHER PEDESTRIAN FACILITIES ARE CLOSED.

STAGE 1 - DRAINAGE
TRAFFIC CONTROL

CLOSE OUTSIDE LANE WITH CHANNELIZERS. MAINTAIN A MINIMUM OF ONE 12' LANE.

CONSTRUCTION

MODIFICATIONS TO EXISTING DRAINAGE STRUCTURES AND CONSTRUCTION OF NEW INLETS.

STAGE 2 - WORK OUTSIDE ROUTE D EDGE OF PAVEMENT
TRAFFIC CONTROL

CLOSE OUTSIDE SHOULDERS AND LANES WITH CHANNELIZERS. MAINTAIN A MINIMUM OF ONE 12' LANE.

CONSTRUCTION

CONSTRUCT CURB AND GUTTER, SIDEWALK, DRAINAGE FLUMES, AND PAVED APPROACHES.

STAGE 3 - ROUTE D INTERSECTIONS
TRAFFIC CONTROL

CLOSE OUTSIDE SHOULDERS AND LANES WITH CHANNELIZERS. MAINTAIN A MINIMUM OF ONE 12' LANE EACH DIRECTION.

CONSTRUCTION

CONSTRUCT NEW SIGNAL AND LIGHTING INFRASTRUCTURE AND REMOVE EXISTING. FOR FULL SIGNAL REPLACEMENT, USE EXISTING IN PLACE UNTIL NEW IS READY FOR OPERATION.

ROUTE D TRAFFIC CONTROL
SHEET 01 OF 11

STATE OF MISSOURI
ALLISON M. BRUNER
NUMBER PE-2019005896
PROFESSIONAL ENGINEER

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12/17/2025

ROUTE	STATE
D	MO
DISTRICT	SHEET NO.
SL	95

COUNTY
ST. LOUIS

JOB NO.
JSL0186

CONTRACT ID.

PROJECT NO.

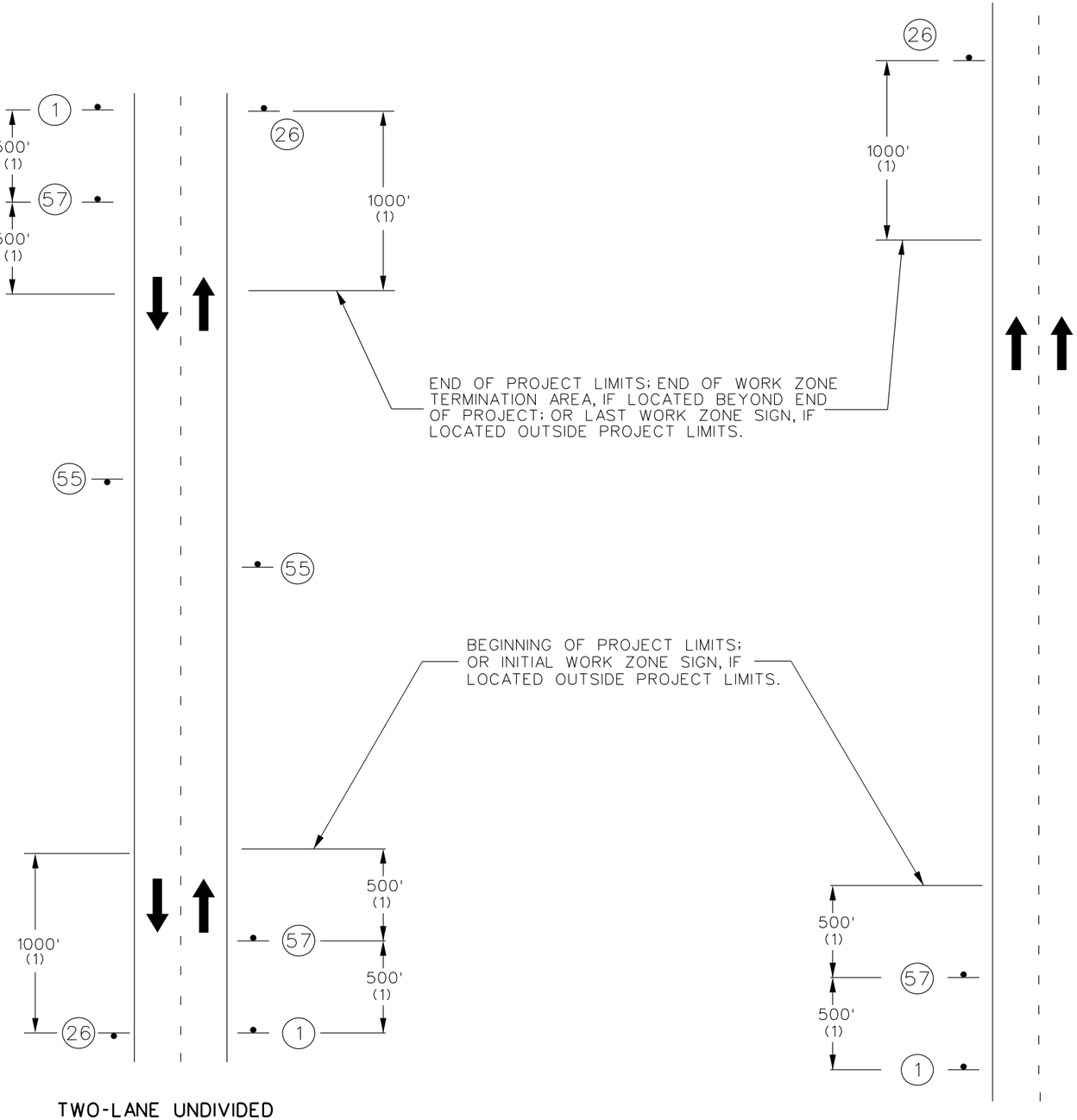
BRIDGE NO.

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MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
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BMcD Project No. 170361

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NOTES:
SIGN GO20-1 IS REQUIRED PER EPG 616.6.56.

SIGN GO20-2 IS USED ON ALL PROJECTS WHERE SIGN GO20-1 IS USED.

OTHER SIGNS SUCH AS DETOUR OR ALTERNATE ROUTE SIGNING MAY BE USED OUTSIDE THE PROJECT LIMITS.

ANY EXISTING SIGNING THAT CONFLICTS WITH THE TRAFFIC CONTROL SIGNING SHALL BE COMPLETELY COVERED OR REMOVED.

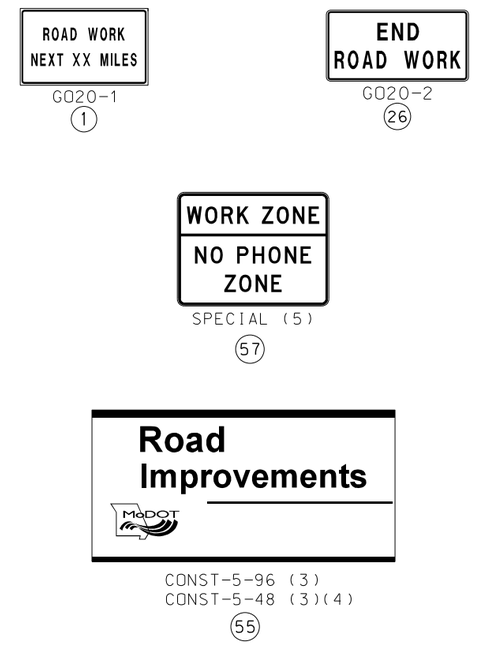
(1) DISTANCE MAY BE ADJUSTED ACCORDING TO FIELD CONDITIONS. WHERE TRAFFIC BACKUPS ARE EXPECTED BEYOND THE ADVANCE WARNING AREA, ADDITIONAL SIGNING MAY BE NEEDED.

(2) SIGN CONST-7-72 OR CONST-7-48 IS PLACED 500 FEET BEFORE THE BEGINNING OF PROJECT LIMITS OR THE ROAD WORK AHEAD SIGN OR ROAD WORK NEXT XX MILES SIGN. IF USED, WHEN THESE SIGNS ARE LOCATED OUTSIDE THE PROJECT LIMITS.

(3) CONST-5-96 OR CONST-5-48 SIGN IS PLACED IN A VISIBLE AREA WITHIN THE PROJECT LIMITS PROVIDED ITS PLACEMENT DOES NOT DISRUPT A SEQUENCE OF SIGNS. IF A VISIBLE LOCATION WITHIN THE PROJECT IS NOT AVAILABLE, THE SIGN MAY BE PLACED 500 FEET BEFORE SIGN CONST-7-72 OR CONST-7-48.

(4) THE "POINT OF PRESENCE" SIGN IS AVAILABLE IN TWO SIZES DEPENDING ON ROADWAY CONDITIONS. THE 48 IN. X 36 IN. SIGN IS USED ON LOW VOLUME ROUTES THAT CARRY 400 AADT OR LESS, ON PROJECTS THAT HAVE A DURATION OF 4 WEEKS OR LESS OR IN URBAN AREAS WHERE THERE IS INSUFFICIENT RIGHTS OF WAY FOR AN EIGHT FOOT WIDE SIGN. THE 96 IN. X 48 IN. VERSION OF THE SIGN IS USED IN ALL OTHER APPLICATIONS, BUT CAN ALSO BE USED IN PLACE OF THE 48 IN. x 36 IN. SIGN IF ADDED EMPHASIS IS DEEMED NECESSARY.

(5) THE "WORK ZONE NO PHONE ZONE" SIGN IS PLACED A MINIMUM OF 500 FEET BEFORE THE ROAD WORK AHEAD SIGN.



BEGIN/END OF PROJECT SIGNING
(FOR USE ON ALL PROJECTS)

ROUTE D TRAFFIC CONTROL
SHEET 02 OF 11

STATE OF MISSOURI
ALLISON M. BRUNER
NUMBER PE-2019005896
PROFESSIONAL ENGINEER
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ROUTE	STATE
D	MO
DISTRICT	SHEET NO.
SL	96

COUNTY
ST. LOUIS

JOB NO.
JSL0186

CONTRACT ID.

PROJECT NO.

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MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
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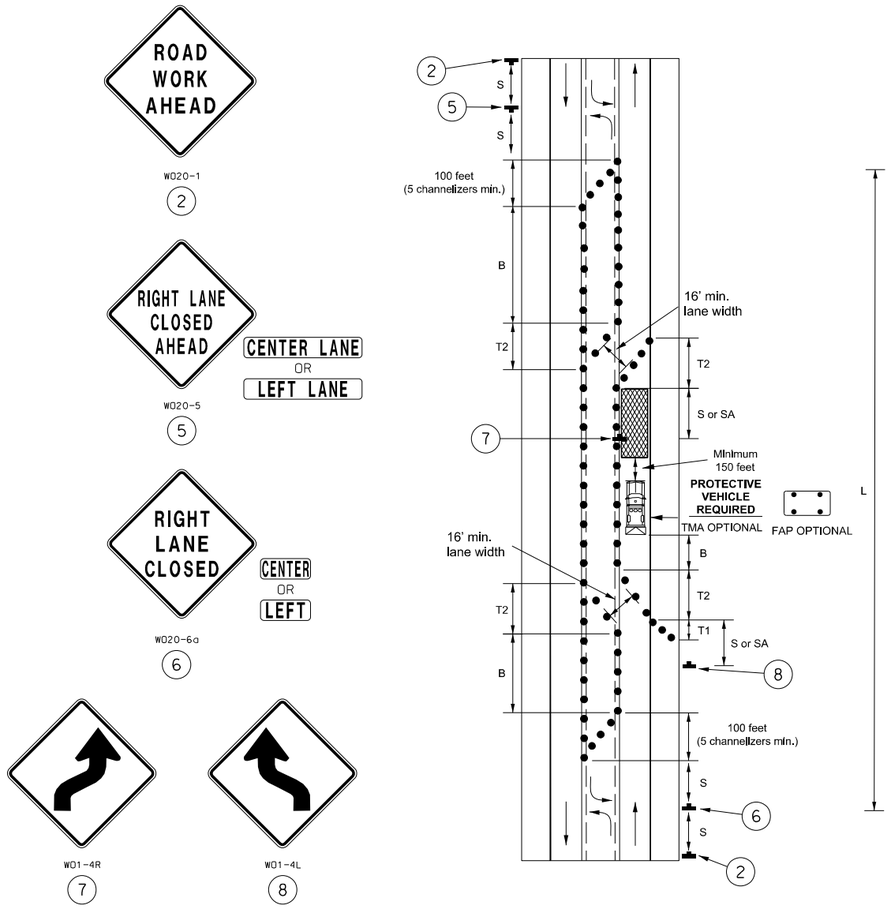
616.8.30STWLTL (TA-30STWLTL) Stationary Lane Closure with a Two-Way Left Turn Lane

SPEED	SIGN SPACING (ft.)	TAPER LENGTH (ft.)		RECOMMENDED	CHANELIZER SPACING (ft.)	
Permanent Posted (mph)	Undivided (S)	Shoulder (1) (T1)	Lane (2) (T2)	BUFFER LENGTH (ft.) (B)	Tapers	Buffer/ Work Areas
0-35	200	70	245	250	35	40
40-45	350	150	540	360	40	80

1. Shoulder taper length based on 10 ft. (standard shoulder width) offset. 2. Lane taper length based on 12 ft. (standard lane width) offset.

TYPE OF ROADWAY	SIGN HEIGHT	MAXIMUM WORK ZONE LENGTH (L)
URBAN	1' Portable 7' Post	1 Mi.
RURAL UNDIVIDED	1' Portable 5' Post	3 Mi.

Channelizer
Flashing Arrow Panel (FAP)
Protective Vehicle
Sign
Work Space
Truck/Trailer Mounted Attenuator (TMA)



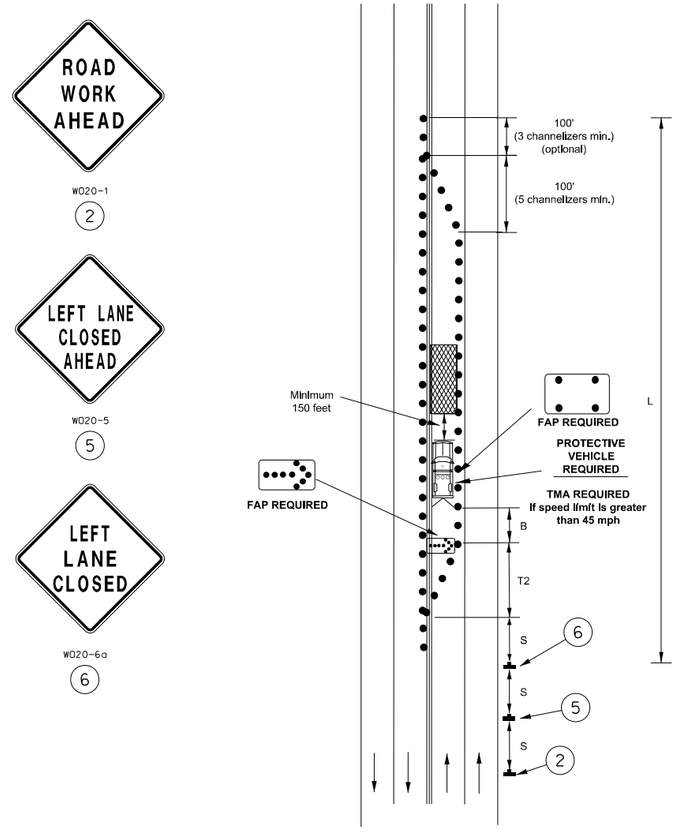
616.8.33S (TA-33S) Stationary Lane Closure on a Multi-Lane Highway

SPEED	SIGN SPACING (ft.)	TAPER LENGTH (ft.)		RECOMMENDED	CHANELIZER SPACING (ft.)	
Permanent Posted (mph)	Undivided (S)	Shoulder (1) (T1)	Lane (2) (T2)	BUFFER LENGTH (ft.) (B)	Tapers	Buffer/ Work Areas
0-35	200	70	245	250	35	40
40-45	350	150	540	360	40	80

1. Shoulder taper length based on 10 ft. (standard shoulder width) offset. 2. Lane taper length based on 12 ft. (standard lane width) offset.

TYPE OF ROADWAY	SIGN HEIGHT	MAXIMUM WORK ZONE LENGTH (L)
URBAN	1' Portable 7' Post	1 Mi.
RURAL UNDIVIDED	1' Portable 5' Post	3 Mi.

Channelizer
Flashing Arrow Panel (FAP)
Protective Vehicle
Sign
Work Space
Truck/Trailer Mounted Attenuator (TMA)



NOT TO SCALE

ROUTE D TRAFFIC CONTROL
SHEET 03 OF 11

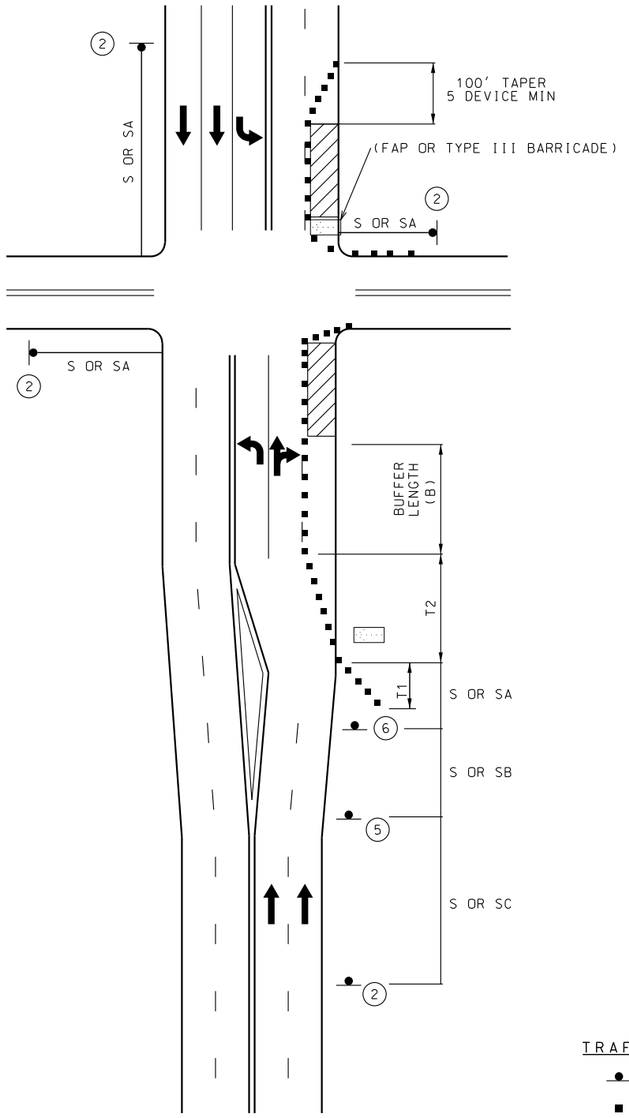
ALLISON M. BRUNER
NUMBER PE-2019005896
PROFESSIONAL ENGINEER
STATE OF MISSOURI
THIS SHEET HAS BEEN SIGNED, SEALED, AND DATED ELECTRONICALLY
Digitally signed by Allison Bruner
Date: 2025.12.19 09:38:44-06'00'

DATE PREPARED: 12/17/2025
ROUTE: D
STATE: MO
DISTRICT: SL
SHEET NO.: 97
COUNTY: ST. LOUIS
JOB NO.: JSL0186
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)

Burns & McDonnell Engineering Co., Inc.
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RIGHT LANE CLOSURE AT INTERSECTION
WORK ON NEAR OR FAR SIDE



BRIDGE
OR
RAMP



CENTER
OR
LEFT



CENTER
OR
LEFT

NOTES:

SEE EPG 616.12 WORK ZONE SPEED LIMITS FOR SPEED LIMIT GUIDELINES.

REMOVE AND/OR MODIFY EXISTING PAVEMENT MARKING AS NEEDED.

FOR SIGNALIZED INTERSECTIONS, ADJUSTMENTS MAY NEED TO BE MADE TO SIGNAL PHASING, TIMING, INDICATIONS OR DETECTOR SETTINGS.

FOR SHORT TERM OPERATION, WHERE IT IS NOT FEASIBLE TO MODIFY PAVEMENT MARKING, A 10-FEET DEVICE SPACING IS USED WHERE TRAFFIC IS GUIDED ACROSS DOUBLE YELLOW LINES OR OTHER CONFLICTING PAVEMENT MARKING. ALL OTHER SPACING ARE ONE-HALF OF THE SPACING.

TEMPORARY PAVEMENT MARKING REQUIRED WITH LONG TERM LANE CLOSURES.

PAVEMENT MARKING AND BARRICADES OPTIONAL FOR SHORT TERM OPERATIONS.

RIGHT LANE CLOSED AHEAD SIGN MAY BE OMITTED IN LOW SPEED URBAN AREAS WHERE THERE IS NOT SUFFICIENT SPACE FOR HTE FULL SIGN SERIES.

IF RUMBLE STRIPS ARE USED, REVIEW 616.6.87 RUMBLE STRIPS.

TRAFFIC CONTROL LEGEND

- SIGN (SINGLE SIDED)
- CHANNELIZER (TRIM-LINE)
- WORK AREA
- FLASHING ARROW PANEL

SPEED	SIGN SPACING (ft.)		TAPER LENGTH (ft.)		OPTIONAL	CHANNELIZER SPACING (ft.)	
PERM. POSTED (MPH)	UN -DIVIDED (S)	DIVIDED (S)	SHOULDER (1) (T1)	LANE (2) (T2)	BUFFER LENGTH (ft) (B)	TAPERS	BUFFER/ WORK AREAS
0-35	200	200	70	245	280	35	40
40-45	350	500	150	540	400	40	80

1 Shoulder taper length based on 10 ft. (standard shoulder width) offset.
2. Lane taper length based on 12 ft. (standard lane width) offset.

NOT TO SCALE

ROUTE D TRAFFIC CONTROL
SHEET 04 OF 11

ALLISON M. BRUNER
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PROFESSIONAL ENGINEER
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ROUTE	STATE
D	MO
DISTRICT	SHEET NO.
SL	98

COUNTY
ST. LOUIS

JOB NO.
JSL0186

CONTRACT ID.

PROJECT NO.

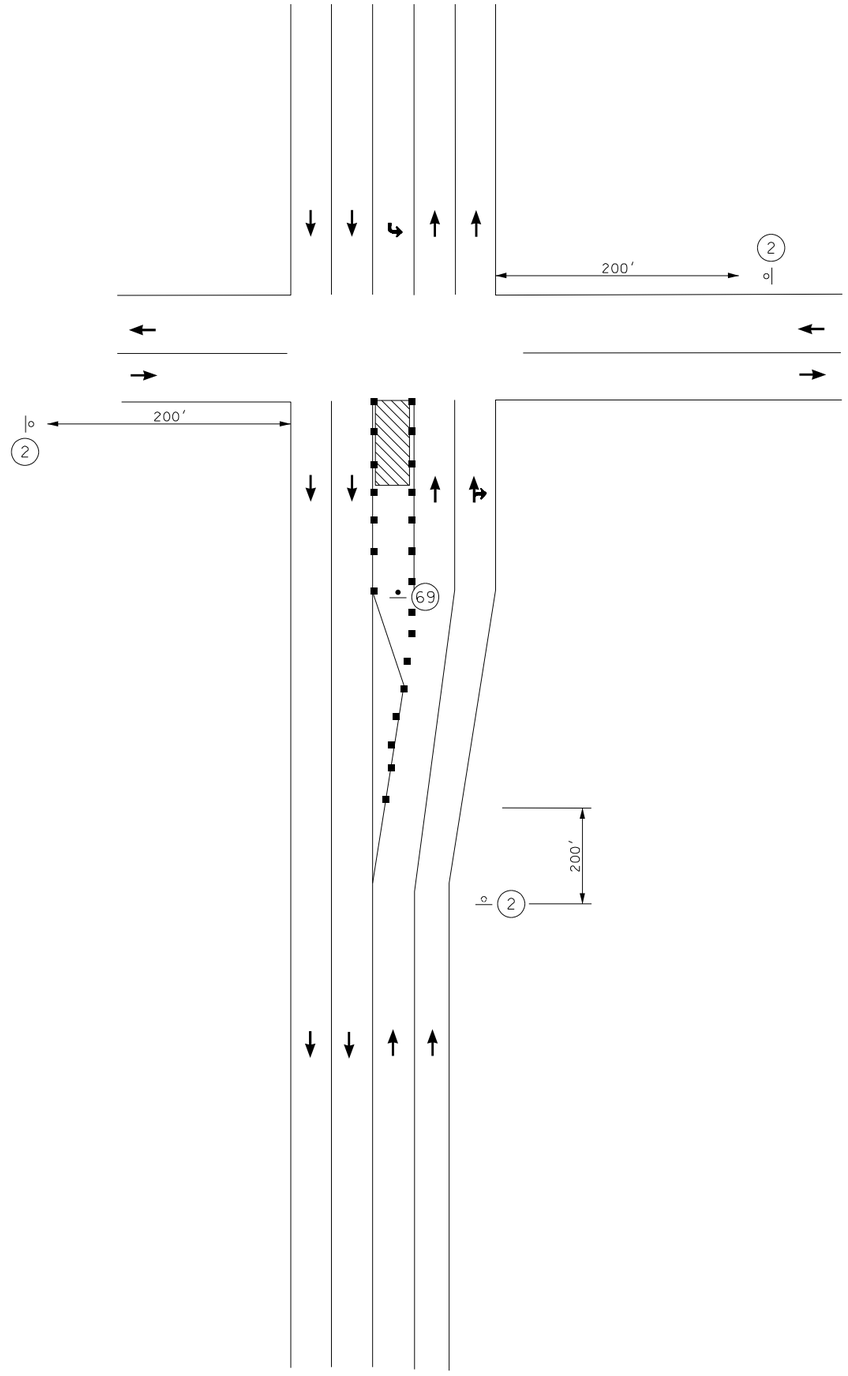
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No. : 000165
BMcD Project No. 170361

TURN LANE CLOSURE AT INTERSECTION



NOT TO SCALE

NOTES:
1. SIGN SPACINGS MAY BE ADJUSTED AS NECESSARY TO MEET FIELD CONDITIONS.
2. THE CONTRACTOR IS RESPONSIBLE FOR COMPLETELY COVERING OR REMOVING ALL EXISTING SIGNING, PAVEMENT MARKINGS, OR SIGNALS THAT CONFLICT WITH THE TEMPORARY TRAFFIC CONTROL.
3. NO DIRECT PAYMENT WILL BE MADE FOR RELOCATING, COVERING, UNCOVERING, OR REMOVING OF TCP SIGNS.
4. CHANNELIZER LENGTHS MAY BE REDUCED AT INTERSECTIONS OR OTHER SPOTS TO DISCOURAGE TRAFFIC ENCROACHMENT.

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W020-1
2



R3-2
69

TRAFFIC CONTROL LEGEND

- SIGN (SINGLE SIDED)
- CHANNELIZERS (TRIMLINE)
- WORK AREA
- DIRECTIONAL INDICATOR BARRICADE
- FLASHING ARROW PANEL
- TRUCK MOUNTED ATTENUATOR

ROUTE D TRAFFIC CONTROL
SHEET 05 OF 11

ALLISON M. BRUNER
NUMBER PE-2019005896
PROFESSIONAL ENGINEER
STATE OF MISSOURI
THIS SHEET HAS BEEN SIGNED, SEALED, AND DATED ELECTRONICALLY
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Date: 2025.12.19 09:38:44-06'00'

DATE PREPARED: 12/17/2025

ROUTE	STATE
D	MO

DISTRICT	SHEET NO.
SL	99

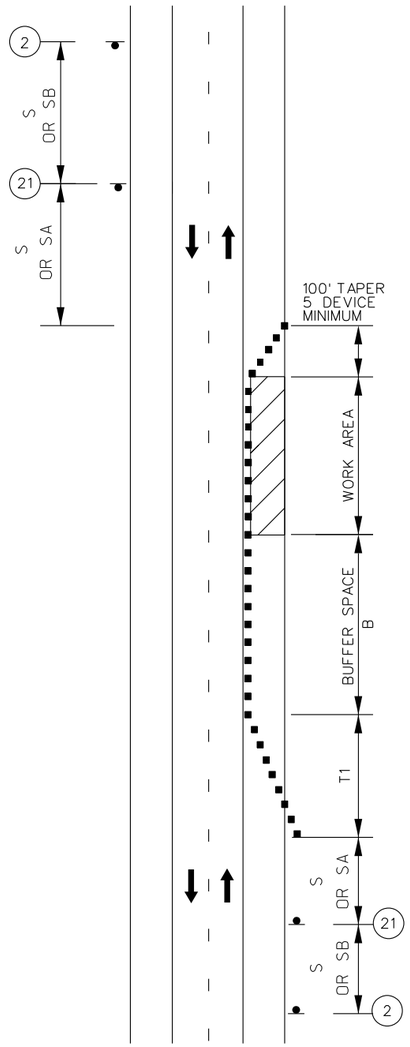
COUNTY: ST. LOUIS
JOB NO.: JSL0186
CONTRACT ID.:
PROJECT NO.:
BRIDGE NO.:

DESCRIPTION | DATE

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

Burns & McDonnell Engineering Co., Inc.
425 South Woods Mill Road
Chesterfield, Missouri 63017
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SPEED	SIGN SPACING (ft.)		TAPER LENGTH (ft.)		OPTIONAL	CHANNELIZER SPACING (ft.)	
PERM. POSTED (MPH)	UN -DIVIDED (S)	DIVIDED (S)	SHOULDER (1) (T1)	LANE (2) (T2)	BUFFER LENGTH (ft) (B)	TAPERS	BUFFER/ WORK AREAS
0-35	200	200	70	245	280	35	40
40-45	350	500	150	540	400	40	80
1 Shoulder taper length based on 10 ft. (standard shoulder width) offset. 2. Lane taper length based on 12 ft. (standard lane width) offset.							



WORK ON THE SHOULDER
ON DIVIDED AND UNDIVIDED
HIGHWAYS

TRAFFIC CONTROL LEGEND

- SIGN (SINGLE SIDED)
- CHANNELIZER (TRIM-LINE)
- WORK AREA

NOT TO SCALE



W020-1

2



W021-5b

21

NOTES:

PROVIDE SIGNS ON LEFT AND RIGHT SIDES OF DIVIDED HIGHWAYS.

ROAD WORK AHEAD SIGN NOT NEEDED IF SHOULDER WORK IS LOCATED WITHIN THE LIMITS OF AN ACTIVITY AREA WHERE ANOTHER ROAD WORK AHEAD SIGN IS ALREADY USED.

SEE EPG 616.12 WORK ZONE SPEED LIMITS FOR SPEED LIMIT GUIDELINES.

VEHICLE HAZARD WARNING SIGNALS SHALL NOT BE USED INSTEAD OF THE VEHICLE'S ROTATING LIGHTS OR STROBE LIGHTS.

WHEN PAVED SHOULDERS HAVING A WIDTH OF 8 FEET OR MORE ARE CLOSED, AT LEAST ONE ADVANCE WARNING SIGN SHALL BE USED. IN ADDITION, CHANNELIZING DEVICES SHALL BE USED TO CLOSE THE SHOULDER IN ADVANCE TO DELINEATE THE BEGINNING OF THE WORK SPACE AND DIRECT VEHICULAR TRAFFIC TO REMAIN WITHIN THE TRAVELED WAY.

ROUTE D TRAFFIC CONTROL
SHEET 06 OF 11

ALLISON M. BRUNER NUMBER PE-2019005896
PROFESSIONAL ENGINEER
STATE OF MISSOURI
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12/17/2025

ROUTE	STATE
D	MO
DISTRICT	SHEET NO.
SL	100

COUNTY
ST. LOUIS

JOB NO.
JSL0186

CONTRACT ID.

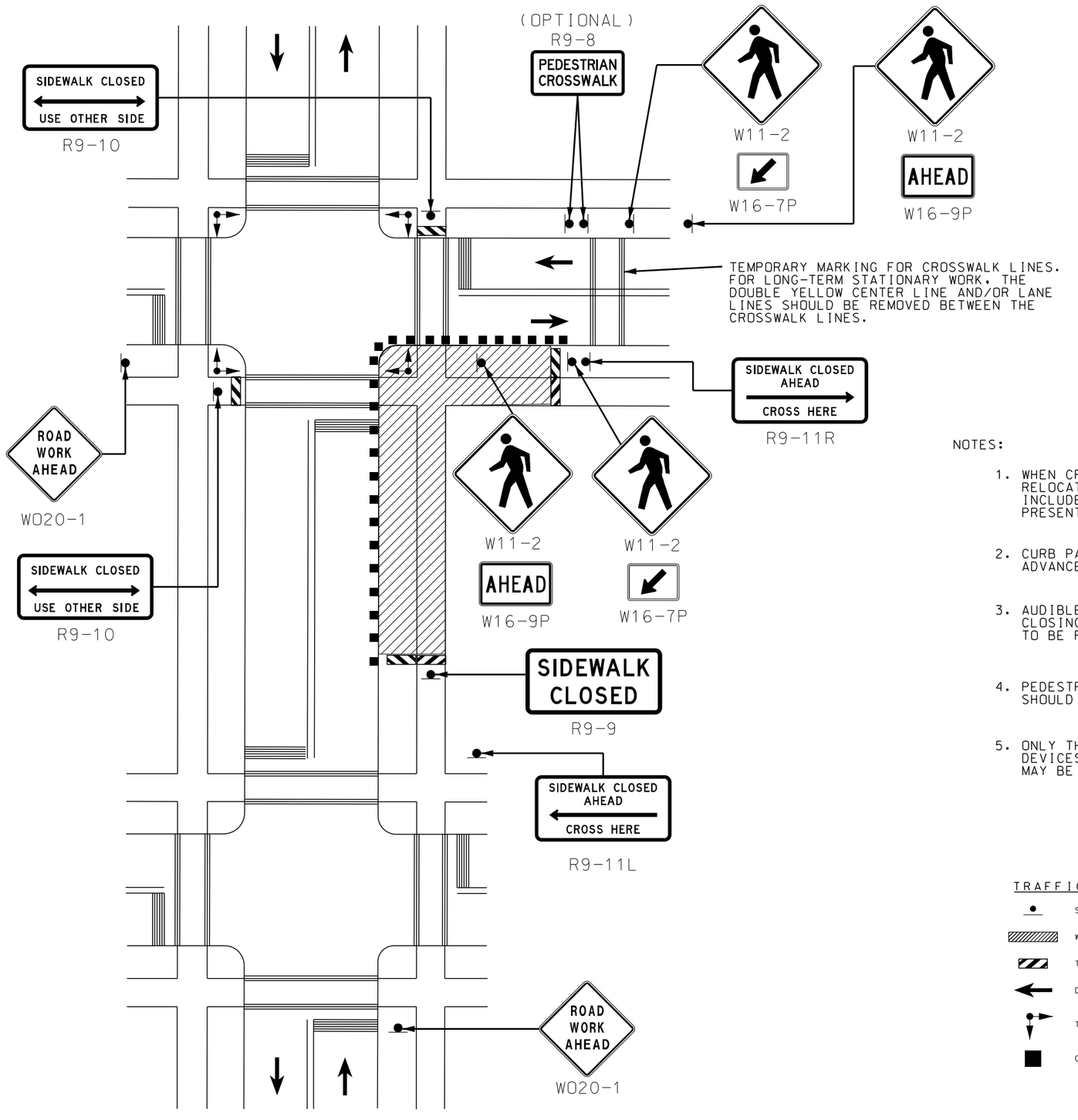
PROJECT NO.

BRIDGE NO.

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MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
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CROSSWALK CLOSURES AND PEDESTRIAN DETOURS

NOT TO SCALE

NOTES:

1. WHEN CROSSWALKS OR OTHER PEDESTRIAN FACILITIES ARE CLOSED OR RELOCATED, TEMPORARY FACILITIES SHALL BE DETECTABLE AND SHALL INCLUDE ACCESSIBILITY FEATURES CONSISTENT WITH THE FEATURES PRESENT IN THE EXISTING PEDESTRIAN FACILITY.

2. CURB PARKING SHALL BE PROHIBITED FOR AT LEAST 50 FEET IN ADVANCE OF THE MIDBLOCK CROSSWALK.

3. AUDIBLE INFORMATION DEVICES SHOULD BE CONSIDERED WHERE MIDBLOCK CLOSINGS AND CHANGED CROSSWALK AREAS CAUSE INADEQUATE COMMUNICATION TO BE PROVIDED TO PEDESTRIANS WHO HAVE VISUAL DISABILITIES.

4. PEDESTRIAN TRAFFIC SIGNALS DISPLAYS CONTROLLING CLOSED CROSSWALKS SHOULD BE COVERED OR DEACTIVATED.

5. ONLY THE TTC DEVICES RELATED TO PEDESTRIANS ARE SHOWN. OTHER DEVICES, SUCH AS LANE CLOSURE SIGNING OR "ROAD NARROWS" SIGNS, MAY BE USED TO CONTROL VEHICULAR TRAFFIC.

TRAFFIC CONTROL LEGEND

- SIGN (SINGLE SIDED)
- WORK AREA
- TYPE III BARRICADE
- DIRECTION OF TRAFFIC
- TRAFFIC OR PEDESTRIAN SIGNAL
- CHANNELIZER (TRIM-LINE)

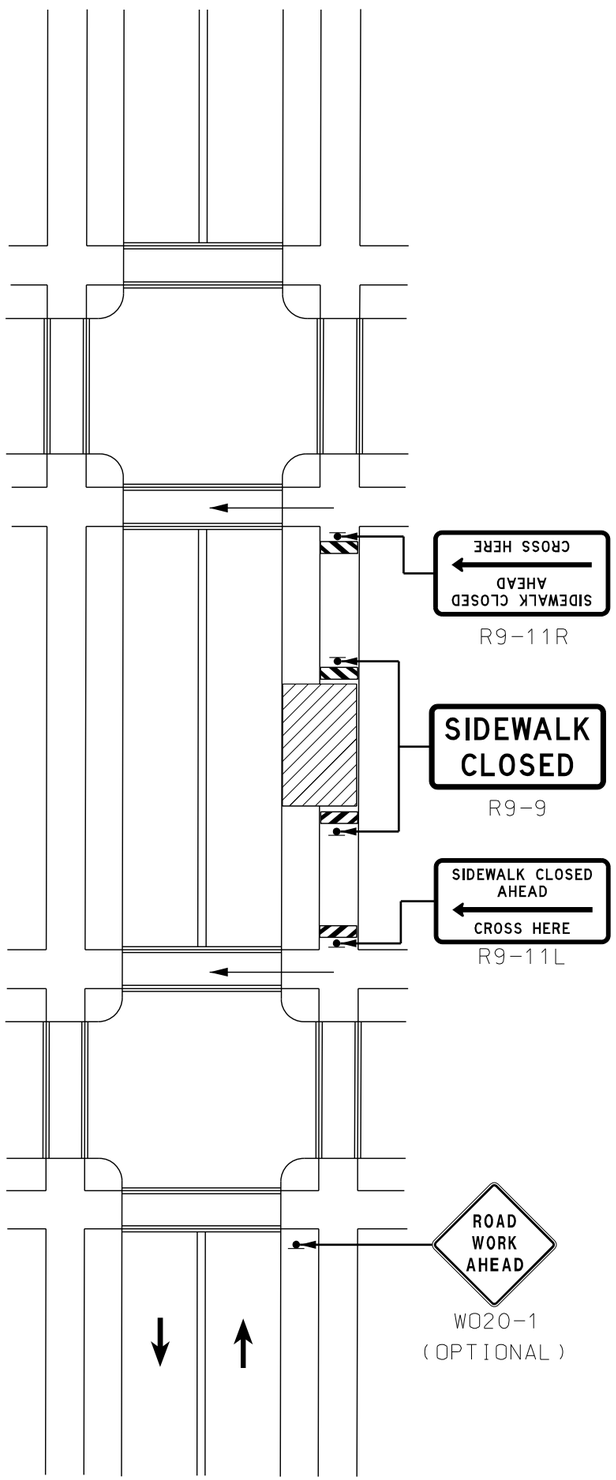
STATE OF MISSOURI
ALLISON M. BRUNER
NUMBER PE-2019005896
PROFESSIONAL ENGINEER
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DATE PREPARED: 12/17/2025
ROUTE: D | STATE: MO
DISTRICT: SL | SHEET NO.: 101
COUNTY: ST. LOUIS
JOB NO.: JSL0186
CONTRACT ID.:
PROJECT NO.:
BRIDGE NO.:

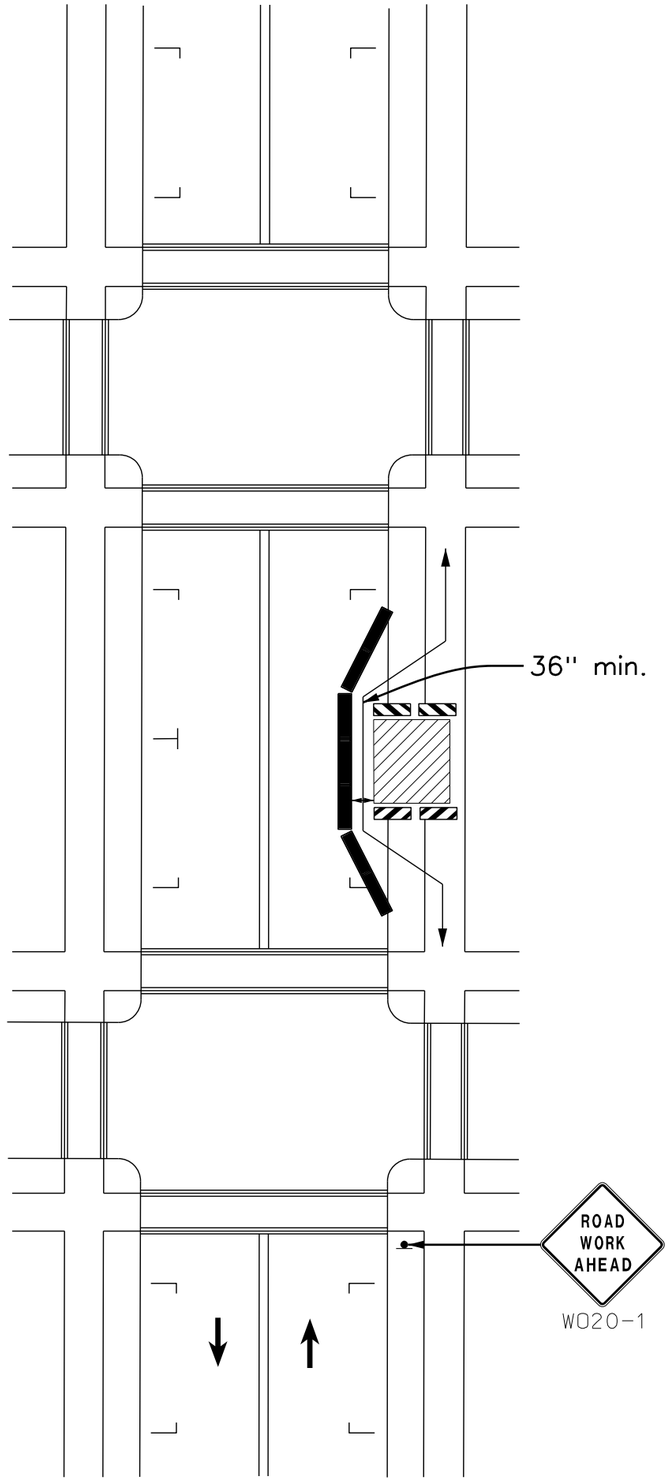
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SIDEWALK DETOUR



SIDEWALK DIVERSION

NOTES:

1. WHEN CROSSWALKS OR OTHER PEDESTRIAN FACILITIES ARE CLOSED OR RELOCATED, TEMPORARY FACILITIES SHALL BE DETECTABLE AND SHALL INCLUDE ACCESSIBILITY FEATURES CONSISTENT WITH THE FEATURES PRESENT IN THE EXISTING PEDESTRIAN FACILITY.
2. WHERE HIGH SPEEDS ARE ANTICIPATED, A TEMPORARY TRAFFIC BARRIER AND, IF NECESSARY, A CRASH CUSHION SHOULD BE USED TO SEPARATE SIDEWALKS FROM VEHICULAR TRAFFIC.
3. WHERE HIGH SPEEDS ARE ANTICIPATED, A TEMPORARY TRAFFIC BARRIER AND, IF NECESSARY, A CRASH CUSHION SHOULD BE USED TO SEPARATE SIDEWALKS FROM VEHICULAR TRAFFIC.
4. ONLY THE TTC DEVICES RELATED TO PEDESTRIANS ARE SHOWN. OTHER DEVICES, SUCH AS LANE CLOSURE SIGNING OR "ROAD NARROWS" SIGNS, MAY BE USED TO CONTROL VEHICULAR TRAFFIC.
5. SIGNS, SUCH AS "KEEP RIGHT (LEFT)", MAY BE PLACED ALONG A TEMPORARY SIDEWALK TO GUIDE OR DIRECT PEDESTRIANS.

TRAFFIC CONTROL LEGEND

- SIGN (SINGLE SIDED)
- WORK AREA
- TYPE III BARRICADE
- DIRECTION OF TRAFFIC
- TRAFFIC OR PEDESTRIAN SIGNAL
- CHANNELIZER (TRIM-LINE)

NOT TO SCALE

ROUTE D TRAFFIC CONTROL
SHEET 08 OF 11

STATE OF MISSOURI
ALLISON M. BRUNER
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D	MO

DISTRICT	SHEET NO.
SL	102

COUNTY: ST. LOUIS

JOB NO.: JSL0186

CONTRACT ID.:

PROJECT NO.:

BRIDGE NO.:

DESCRIPTION	DATE

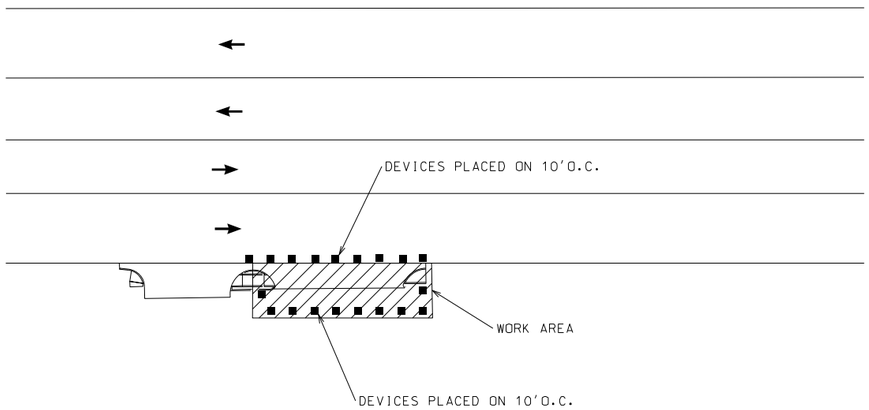
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TYPICAL TRAFFIC CONTROL FOR ENTRANCE CONSTRUCTION



TRAFFIC CONTROL LEGEND

- SIGN (SINGLE SIDED)
- CHANNELIZERS (TRIMLINE)
- WORK AREA

NOTES:

1. IF PROPERTY HAS MULTIPLE ENTRANCES, THE CONTRACTOR MAY CLOSE ONE ENTIRE ENTRANCE.
2. IF PROPERTY HAS ONLY A SINGLE ENTRANCE, THEN THE ENTRANCE SHALL BE CONSTRUCTED IN HALVES, WHERE POSSIBLE. OTHERWISE, THE CONTRACTOR SHALL COORDINATE WITH RESIDENTS IN ADVANCE TO PROVIDE ACCESS TO PROPERTY.
3. THE CONTRACTOR SHALL LIMIT THE WORK ZONE TO MINIMIZE IMPACT ACCESS TO THE BUSINESS.
4. THE CONTRACTOR SHALL NOT PARK EQUIPMENT OR STORE MATERIALS IN THE TEMPORARY EASEMENTS DURING NON-WORKING HOURS.
5. THE CONTRACTOR SHALL MAINTAIN ACCESS AT ALL TIMES TO THE PROPERTY.
6. SEE ALSO TRAFFIC CONTROL FOR SHOULDER WORK WITH TRAVELWAY ENCROACHMENT AS NEEDED.
7. THE CONTRACTOR IS RESPONSIBLE FOR COMPLETELY COVERING OR REMOVING ALL EXISTING SIGNING, PAVEMENT MARKINGS, OR SIGNALS THAT CONFLICT WITH THE TEMPORARY TRAFFIC CONTROL.

NOT TO SCALE

ROUTE D TRAFFIC CONTROL
SHEET 09 OF 11

ALLISON M. BRUNER
NUMBER PE-2019005896
STATE OF MISSOURI
PROFESSIONAL ENGINEER
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DATE PREPARED: 12/17/2025
ROUTE: D | STATE: MO
DISTRICT: SL | SHEET NO.: 103
COUNTY: ST. LOUIS
JOB NO.: JSL0186
CONTRACT ID.:
PROJECT NO.:
BRIDGE NO.:

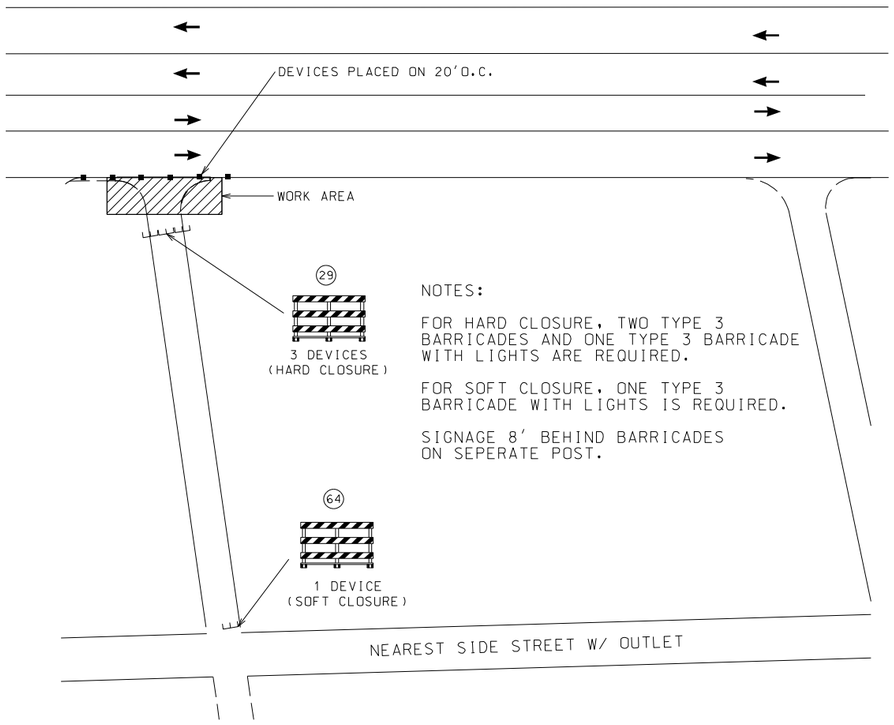
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CLOSURE OF NON-SIGNALIZED STREET



NOTES:

FOR HARD CLOSURE, TWO TYPE 3 BARRICADES AND ONE TYPE 3 BARRICADE WITH LIGHTS ARE REQUIRED.

FOR SOFT CLOSURE, ONE TYPE 3 BARRICADE WITH LIGHTS IS REQUIRED.

SIGNAGE 8' BEHIND BARRICADES ON SEPERATE POST.



R11-2

29



R11-4

64

TRAFFIC CONTROL LEGEND

- SIGN (SINGLE SIDED)
- CHANNELIZERS (TRIMLINE)
- WORK AREA

NOTES:

1. IF NEAREST SIDE STREET DOES NOT HAVE AN OUTLET, OR DISTANCE TO NEAREST OUTLET IS NOT FEASIBLE, NON-SIGNALIZIED INTERSECTION SHALL BE CONSTRUCTED IN HALVES, KEEPING HALF OF ENTRANCE OPEN AT ALL TIMES.
2. THE CONTRACTOR IS RESPONSIBLE FOR COMPLETELY COVERING OR REMOVING ALL EXISTING SIGNING, PAVEMENT MARKINGS, OR SIGNALS THAT CONFLICT WITH THE TEMPORARY TRAFFIC CONTROL.

NOT TO SCALE

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ROUTE	STATE
D	MO
DISTRICT	SHEET NO.
SL	104

COUNTY
ST. LOUIS

JOB NO.
JSL0186

CONTRACT ID.

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ROUTE D TRAFFIC CONTROL
SHEET 10 OF 11

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SIGN	SIZE IN.	AREA SQ.FT.	QTY EACH	TOTAL AREA SQ.FT.	QTY RELOC EACH	TOTAL RELOC SQ.FT.	SIGN NO.	DESCRIPTION
WARNING SIGNS								
WO1-1L	48X48	16.00						TURN (SYMBOL LEFT)
WO1-1R	48X48	16.00						TURN (SYMBOL RIGHT)
WO1-2L	48X48	16.00						CURVE (SYMBOL LEFT)
WO1-2R	48X48	16.00						CURVE (SYMBOL RIGHT)
WO1-3L	48X48	16.00						REVERSE TURN (SYMBOL LEFT)
WO1-3R	48X48	16.00						REVERSE TURN (SYMBOL RIGHT)
WO1-4L	48X48	16.00						REVERSE CURVE (SYMBOL LEFT)
WO1-4R	48X48	16.00						REVERSE CURVE (SYMBOL RIGHT)
WO1-4bL	48X48	16.00						DOUBLE ARROW REVERSE CURVE (SYMBOL LEFT)
WO1-4bR	48X48	16.00						DOUBLE ARROW REVERSE CURVE (SYMBOL RIGHT)
WO1-4cL	48X48	16.00						TRIPLE ARROW REVERSE CURVE (SYMBOL LEFT)
WO1-4cR	48X48	16.00						TRIPLE ARROW REVERSE CURVE (SYMBOL RIGHT)
WO1-6	60X30	12.50						HORIZONTAL ARROW (SYMBOL)
WO1-6a	72X36	18.00						HORIZ. ARROW (SYMBOL ON PERMANENT BARRICADE)
WO1-7	60X30	12.50						DOUBLE HEAD HORIZONTAL ARROW (SYMBOL)
WO1-7a	72X36	18.00						DOUBLE HEAD HORIZ. ARROW (SYMBOL ON PERM. BARR.)
WO1-8	18X24	3.00						CHEVRON (SYMBOL)
WO1-8a	30X36	7.50						CHEVRON (SYMBOL FOR DIVIDED HIGHWAYS)
WO3-1	48X48	16.00						STOP AHEAD (SYMBOL)
WO3-2	48X48	16.00						YIELD AHEAD (SYMBOL)
WO3-3	48X48	16.00						SIGNAL AHEAD (SYMBOL)
WO3-4	48X48	16.00						BE PREPARED TO STOP
WO3-5	48X48	16.00						SPEED LIMIT AHEAD
WO4-1L	48X48	16.00						MERGE (SYMBOL FROM LEFT)
WO4-1R	48X48	16.00						MERGE (SYMBOL FROM RIGHT)
WO4-1aL	48X48	16.00						MERGE (LEFT)
WO4-1aR	48X48	16.00						MERGE (RIGHT)
WO5-1	48X48	16.00						ROAD/BRIDGE/RAMP NARROWS
WO5-3	48X48	16.00						ONE LANE BRIDGE
WO5-5	48X48	16.00						NARROW LANES
WO6-1	48X48	16.00						DIVIDED HIGHWAY (SYMBOL)
WO6-2	48X48	16.00						DIVIDED HIGHWAY END (SYMBOL)
WO6-3	48X48	16.00						TWO WAY TRAFFIC (SYMBOL)
WO7-3a	30X24	5.00						NEXT XX MILES (PLAQUE)
WO8-1	48X48	16.00						BUMP
WO8-2	48X48	16.00						DIP
WO8-3	48X48	16.00						PAVEMENT ENDS
WO8-4	48X48	16.00						SOFT SHOULDER
WO8-5	48X48	16.00						SLIPPERY WHEN WET (SYMBOL)
WO8-6	48X48	16.00						TRUCK CROSSING
WO8-6c	48X48	16.00						TRUCK ENTRANCE
WO8-7	36X36	9.00						LOOSE GRAVEL
WO8-7a	36X36	9.00						FRESH OIL / LOOSE GRAVEL
WO8-9	48X48	16.00						LOW SHOULDER
WO8-11	48X48	16.00						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)
WO12-2x	24X18	3.00						LOW CLEARANCE (PLAQUE)
WO12-2a	84X24	14.00						OVERHEAD LOW CLEARANCE (FEET AND INCHES)
WO12-4	120X60	50.00						LOW CLEARANCE XX FT XX IN XX MILES AHEAD
WO12-5	120X60	50.00						WIDTH RESTRICTION XX FT XX IN XX MILES AHEAD
WO13-1	30X30	6.25						ADVISORY SPEED (PLAQUE)
WO16-2	30X24	5.00						XXX FEET (PLAQUE)
WO16-3	30X24	5.00						X MILE (PLAQUE)
WO20-1	48X48	16.00	8	160				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	2	32				RIGHT/CENTER/LEFT LANE CLOSED AHEAD
WO20-5a	48X48	16.00						2 RIGHT/CENTER/LEFT LANES CLOSED AHEAD
WO20-6a	48X48	16.00	2	32				RIGHT/CENTER/LEFT LANE CLOSED
WO20-7a	48X48	16.00						FLAGGER (SYMBOL)
WO21-2	36X36	9.00						FRESH OIL
WO21-5	48X48	16.00						SHOULDER WORK / SHOULDER WORK AHEAD
WO22-1	48X48	16.00						BLASTING ZONE AHEAD
WO22-2	42X36	10.50						TURN OFF 2-WAY RADIO AND PHONE
WO22-3	42X36	10.50						END BLASTING ZONE
GO22-1	21X15	2.19						WET PAINT (ARROW PIVOTS)

SIGN	SIZE IN.	AREA SQ.FT.	QTY EACH	TOTAL SQ.FT.	QTY RELOC EACH	TOTAL RELOC SQ.FT.	SIGN NO.	DESCRIPTION
GUIDE SIGNS								
E05-1	36X48	12.00						GORE EXIT
E05-2	48X36	12.00						EXIT OPEN
E05-2a	48X36	12.00						EXIT CLOSED
GO20-1	60X24	10.00	2	20				ROAD WORK NEXT XX MILES
GO20-2	48X24	8.00	4	32				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						LEFT LANE MUST TURN LEFT
R3-7R	30X30	6.25						RIGHT LANE MUST TURN RIGHT
R4-1	36X48	12.00						DO NOT PASS
R4-2	36X48	12.00						PASS WITH CARE
R4-7a	36X48	12.00						KEEP RIGHT (HORIZONTAL ARROW)
R4-8a	36X48	12.00						KEEP LEFT (HORIZONTAL ARROW)
R5-1	30X30	6.25						DO NOT ENTER
R5-1a	36X24	6.00						WRONG WAY
R6-1L	54X18	6.75						ONE WAY ARROW (LEFT)
R6-1R	54X18	6.75						ONE WAY ARROW (RIGHT)
R6-2L	24X30	5.00						ONE WAY (LEFT)
R6-2R	24X30	5.00						ONE WAY (RIGHT)
R9-9	24X12	2.00	8	16				SIDEWALK CLOSED
R9-11L	24X18	3.00	4	12				SIDEWALK CLOSED AHEAD, (ARROW LEFT) CROSS HERE
R9-11R	24X18	3.00	4	12				SIDEWALK CLOSED AHEAD, (ARROW RIGHT) CROSS HERE
R10-6	24X36	6.00						STOP HERE ON RED (45^ ARROW)
R11-2	48X30	10.00						ROAD CLOSED
R11-3a	60X30	12.50						ROAD CLOSED XX MILES AHEAD LOCAL TRAFFIC ONLY
R11-4	60X30	12.50						ROAD CLOSED TO THRU TRAFFIC
CONST-3A	60X48	20.00						FINE SIGN
CONST-3X	56X12	4.67						SPEEDING/PASSING (PLATE)
MISCELLANEOUS SIGNS								
CONST-5	48X36	12.00	2	24				POINT OF PRESENCE
CONST-5	96X48	32.00						POINT OF PRESENCE
CONST-8	48X36	12.00	4	48				WORK ZONE NO PHONE ZONE

616-10.05 CONSTRUCTION SIGNS	TOTAL	388
616-10.10 RELOCATED SIGNS	TOTAL	*

* NOTE: NO DIRECT PAYMENT SHALL BE MADE TO RELOCATE OR COVER/UNCOVER EXISTING OR TCP SIGNS OR TO RELOCATE OTHER TCP DEVICES.

NOTE: MANY OF THE REGULATORY SIGNS ADDED IN CASE FINAL SIGN PLACEMENT TAKES PLACE AFTER REMOVAL OF EXISTING.

EFFECTIVE: 07-01-2025

ITEM NUMBER	TOTAL QTY	DESCRIPTION
6122008		IMPACT ATTENUATOR 40 MPH (SAND BARRELS)
6122009		IMPACT ATTENUATOR 45 MPH (SAND BARRELS)
6122010		IMPACT ATTENUATOR 50 MPH (SAND BARRELS)
6122012		IMPACT ATTENUATOR 55 MPH (SAND BARRELS)
6122014		IMPACT ATTENUATOR 60 MPH (SAND BARRELS)
6122017		IMPACT ATTENUATOR 65 MPH (SAND BARRELS)
6122019		IMPACT ATTENUATOR 70 MPH (SAND BARRELS)
6122020		REPLACEMENT SAND BARREL
6122030		IMPACT ATTENUATOR (RELOCATION)
6122040		WORK ZONE CRASH CUSHION (NARROW)
6122041		WORK ZONE CRASH CUSHION (RELOCATION)
6123001	+++	TRUCK MOUNTED ATTENUATOR (TMA)
6161012		BUOYS (BOATS KEEP OUT)
6161013		BUOYS (NO WAKE)
6161014		SPECIAL SIGN ASSEMBLY (BOATS KEEP OUT)
6161020		CHANNELIZER (DRUM-LIKE)
6161022	195	CHANNELIZER (CONE)
6161025		CHANNELIZER (TRIM-LINE)
6161026		CHANNELIZER (VERTICAL PANEL)
6161030	9	TYPE 3 MOVEABLE BARRICADE
6161033		DIRECTION INDICATOR BARRICADE
6161040	4	FLASHING ARROW PANEL
6161047		TYPE 3 OBJECT MARKER
6161055		SEQUENTIAL FLASHING WARNING LIGHT
6161070		TUBULAR MARKER
6161095		RADAR SPEED ADVISORY SYSTEM
6161096		CHANGEABLE MESSAGE SIGN, COMMISSION FURNISHED/RETAINED
6161098A		CHANGEABLE MESSAGE SIGN WITHOUT COMM. INTERFACE, CONTRACTOR FURNISHED/RETAINED
6161099	3**	CHANGEABLE MESSAGE SIGN WITH COMM. INTERFACE, CONTRACTOR FURNISHED/RETAINED
6162000A		WORK ZONE TRAFFIC SIGNAL SYSTEM
6162002		TEMPORARY LONG-TERM RUMBLE STRIPS
6173600D		TEMPORARY TRAFFIC BARRIER, CONTRACTOR FURNISHED/RETAINED
6173700B		TEMP. TRAFFIC BARRIER ANCHORED, CONTRACTOR FURNISHED/RETAINED
6173706		TEMP. TRAFFIC BARRIER STIFFNESS TRANSITION CONTRACTOR FURNISHED/RETAINED
6174000A		TEMP. TRAFFIC BARRIER HEIGHT TRANSITION, CONTRACTOR FURNISHED/RETAINED
6175010A		RELOCATING TEMPORARY TRAFFIC BARRIER
6175011B		RELOCATING TEMP. TRAFFIC BARRIER ANCHORED
6175013		RELOCATING TEMP. TRAFFIC BARRIER STIFFNESS
6175020A		RELOCATING TEMP. TRAFFIC BARRIER HEIGHT
6208064A		TEMPORARY RAISED PAVEMENT MARKER
9029400		TEMPORARY TRAFFIC SIGNALS
9029401		TEMPORARY TRAFFIC SIGNALS AND LIGHTING

NOTE: CMS LOCATIONS TO BE APPROVED BY THE ENGINEER.

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

+++ INDICATES TMAs WILL BE REQUIRED FOR MOBILE OPERATIONS ON THIS JOB BUT AT NO DIRECT PAY. THE CONTRACTOR MAY USE TMAs AT STATIONARY LOCATIONS OF HIS OR HER OWN CHOOSING BUT NO PAYMENT SHALL BE MADE FOR THESE TMAs.

NOTE: EXIST. SIGNS SHALL NOT BE REMOVED UNTIL NEW SIGNS HAVE BEEN INSTALLED UNLESS APPROVED BY THE ENGINEER.

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

NOTE: QUANTITIES PROVIDED ARE SETUP USING BOTH GENERIC AND CUSTOM TRAFFIC CONTROL. IF THE CONTRACTOR CHOOSES TO SETUP TRAFFIC CONTROL DIFFERENTLY, THEN THOSE ADDITIONAL QUANTITIES SHALL BE PAID AT THE EXPENSE OF THE CONTRACTOR.

ROUTE D TRAFFIC CONTROL
SHEET 11 OF 11

STATE OF MISSOURI
ALLISON M. BRUNER
NUMBER PE-2019005896
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED, AND DATED ELECTRONICALLY

Digitally signed by Allison Bruner
Date: 2026.01.06 12:47:26-06'00'

DATE PREPARED
1/5/2026

ROUTE	STATE
D	MO
DISTRICT	SHEET NO.
SL	105

COUNTY
ST. LOUIS

JOB NO.
JSL0186

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION	DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

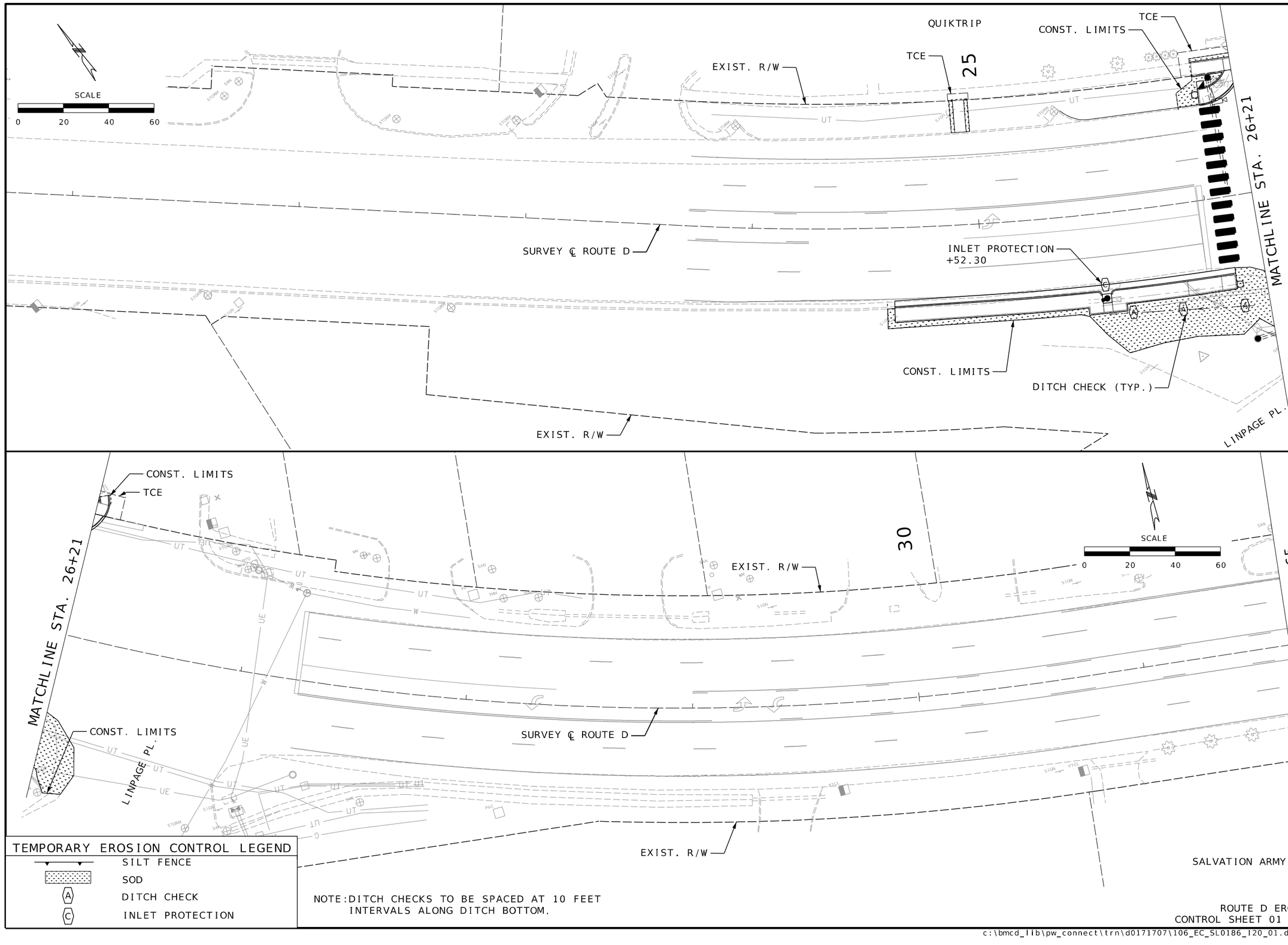
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

Burns & McDonnell Engineering Co., Inc.
425 South Woods Mill Road
Chesterfield, Missouri 63017
314-682-1500

Certificate of Authority
No. : 000165

BMcD Project No. 170361

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TEMPORARY EROSION CONTROL LEGEND

- SILT FENCE
- SOD
- (A) DITCH CHECK
- (C) INLET PROTECTION

NOTE:DITCH CHECKS TO BE SPACED AT 10 FEET INTERVALS ALONG DITCH BOTTOM.

ROUTE D EROSION CONTROL SHEET 01 OF 13

STATE OF MISSOURI
ALLISON M. BRUNER
NUMBER PE-2019005896
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED, AND DATED ELECTRONICALLY

Digitally signed by Allison Bruner
Date: 2025.12.19 09:38:45-06'00'

DATE PREPARED
12/17/2025

ROUTE	STATE
D	MO
DISTRICT	SHEET NO.
SL	106

COUNTY
ST. LOUIS

JOB NO.
JSL0186

CONTRACT ID.

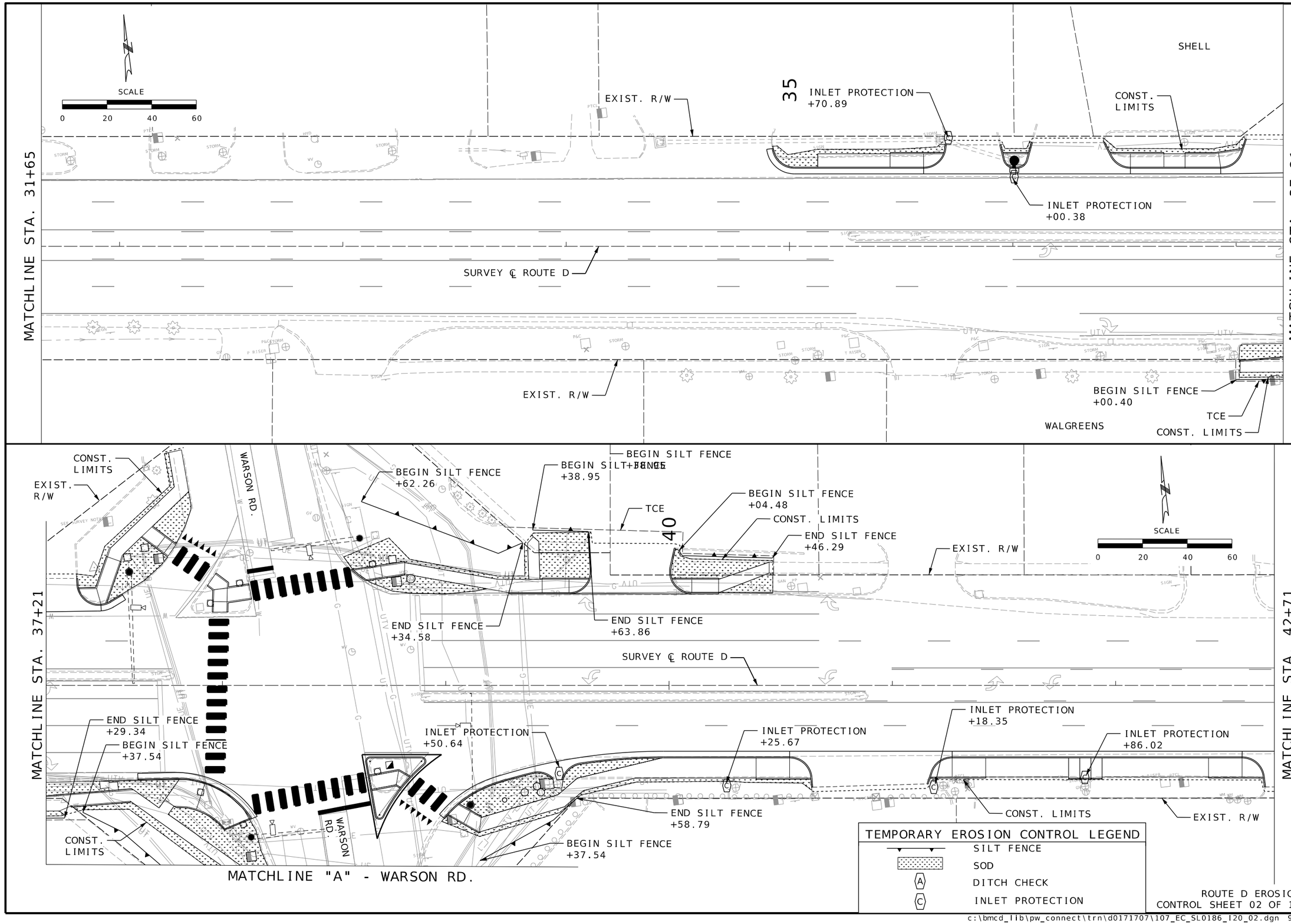
PROJECT NO.

BRIDGE NO.

DESCRIPTION	DATE

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

Burns & McDonnell Engineering Co., Inc.
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ROUTE D EROSION CONTROL SHEET 02 OF 13

STATE OF MISSOURI
ALLISON M. BRUNER
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PROFESSIONAL ENGINEER

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Date: 2025.12.19 09:38:45-06'00'

DATE PREPARED	12/17/2025
ROUTE	STATE
D	MO
DISTRICT	SHEET NO.
SL	107
COUNTY	ST. LOUIS
JOB NO.	JSL0186
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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KFC

POPEYES

ARBY'S

SCALE

0 20 40 60

45

EXIST. R/W

CONST. LIMITS

TCE

MATCHLINE STA. 42+71

MATCHLINE STA. 48+21

SURVEY ℄ ROUTE D

EXIST. R/W

CONST. LIMITS

ENTERPRISE

CONST. LIMITS

TCE

EXIST. R/W

50

ASHBY RD.

STEAK N SHAKE

CONST. LIMITS

EXIST. R/W

SURVEY ℄ ROUTE D

MATCHLINE STA. 48+21

MATCHLINE STA. 53+71

CONST. LIMITS

EXIST. R/W

INLET PROTECTION
+03.89

ASHBY RD.

PSE

CONST. LIMITS

CONST. LIMITS

EXIST. R/W

SCALE

0 20 40 60

TEMPORARY EROSION CONTROL LEGEND

SILT FENCE

SOD

A DITCH CHECK

C INLET PROTECTION

ROUTE D EROSION
CONTROL SHEET 03 OF 13

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STATE OF MISSOURI
ALLISON M. BRUNER
NUMBER PE-2019005896
PROFESSIONAL ENGINEER

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Date: 2025.12.19 09:38:45-06'00'

DATE PREPARED
12/17/2025

ROUTE	STATE
D	MO
DISTRICT	SHEET NO.
SL	108

COUNTY
ST. LOUIS

JOB NO.
JSL0186

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION

DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

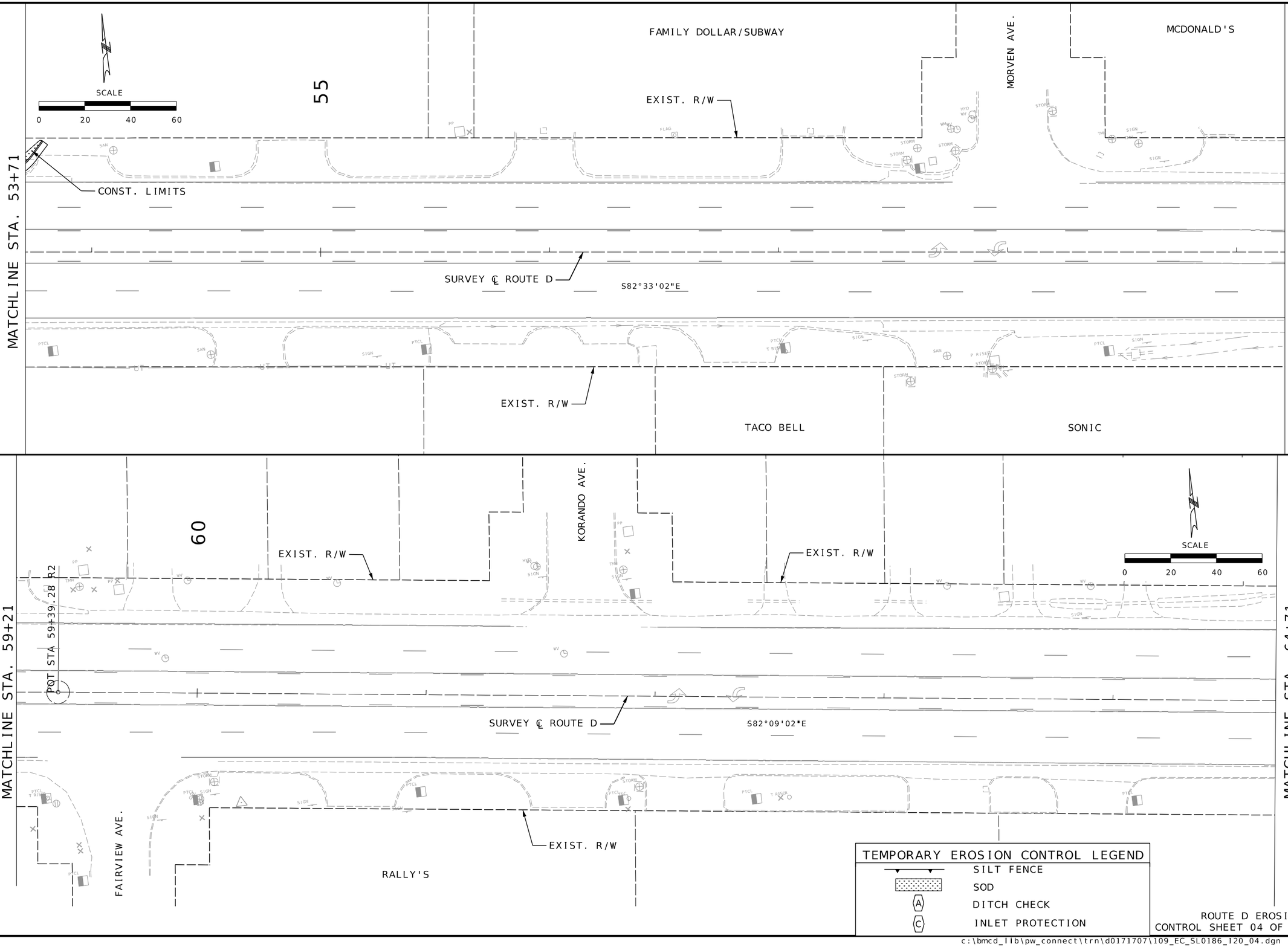
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
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No. : 000165

BMcD Project No. 170361



TEMPORARY EROSION CONTROL LEGEND

- SILT FENCE
- SOD
- (A) DITCH CHECK
- (C) INLET PROTECTION

ROUTE D EROSION CONTROL SHEET 04 OF 13

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STATE OF MISSOURI
ALLISON M. BRUNER
NUMBER PE-2019005896
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Date: 2025.12.19 09:38:45-06'00'

DATE PREPARED
12/17/2025

ROUTE	STATE
D	MO
DISTRICT	SHEET NO.
SL	109

COUNTY
ST. LOUIS

JOB NO.
JSL0186

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)

Burns & McDonnell Engineering Co., Inc.
425 South Woods Mill Road
Chesterfield, Missouri 63017
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No. : 000165
BMcD Project No. 170361

MATCHLINE STA. 64+71

65

UCEYLE AVE.

WAFFLE HOUSE

EXIST. R/W

OCONNELL AVE.

70

CONST. LIMITS

MATCHLINE STA. 70+06

S82°09'02"E

SURVEY ℄ ROUTE D

INLET PROTECTION
+21.12

SCALE
0 20 40 60

EXIST. R/W

BACH RD.

CONST. LIMITS
TCE

DUNKIN'

TEMPORARY EROSION CONTROL LEGEND

- SILT FENCE
- SOD
- (A) DITCH CHECK
- (C) INLET PROTECTION

INLET PROTECTION
+47.00

INLET PROTECTION
+23.34

EXIST. R/W

DYER AVE.

CONST. LIMITS

EXIST. R/W

SCALE
0 20 40 60

NORTHFIELD DR.

INLET PROTECTION
+74.41

POT STA 74+23.45 R2

INLET PROTECTION
+55.89

MATCHLINE STA. 70+06

SURVEY ℄ ROUTE D

INLET PROTECTION
+91.38

MATCHLINE STA. 75+71

PHE

TCE

PAGE INDUSTRIAL BLVD.

PSE

CONST. LIMITS

SCOOTER'S COFFEE

EXIST. R/W

JODY INDUSTRIAL CT.

ROUTE D EROSION
CONTROL SHEET 05 OF 13

STATE OF MISSOURI
ALLISON M. BRUNER
NUMBER PE-2019005896
PROFESSIONAL ENGINEER

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Date: 2025.12.19 09:38:45-06'00'

DATE PREPARED	
12/17/2025	
ROUTE	STATE
D	MO
DISTRICT	SHEET NO.
SL	110

COUNTY
ST. LOUIS

JOB NO.
JSL0186

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)

Burns & McDonnell Engineering Co., Inc.

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No. : 000165

BMcD Project No. 170361

NORTHFIELD DR.

SCALE
0 20 40 60

EXIST. R/W

80

MATCHLINE STA. 75+71

S81°09'02"E

SURVEY ℄ ROUTE D

S81°09'02"E

MATCHLINE STA. 81+21

ENTERPRISE

LOTSIE BLVD.

EXIST. R/W

EXIST. R/W

SIMS AVE.

PC STA 82+27.70 R2

85

EXIST. R/W

PT STA 84+89.53 R2

SCALE
0 20 40 60

MATCHLINE STA. 81+21

SURVEY ℄ ROUTE D

S65°53'02"E

MATCHLINE STA. 86+71

EXIST. R/W

PI 83+59.40
PC 82+27.70
PT 84+89.53
Δ 15°16'0.0" (RT)
D 5°49'50.9"
L 261.83' (ARC)
T 131.69'
R 982.64'

TEMPORARY EROSION CONTROL LEGEND

- SILT FENCE
- SOD
- (A) DITCH CHECK
- (C) INLET PROTECTION

ROUTE D EROSION
CONTROL SHEET 06 OF 13

STATE OF MISSOURI
ALLISON M. BRUNER
NUMBER PE-2019005896
PROFESSIONAL ENGINEER

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Date: 2025.12.19 09:38:45-06'00'

DATE PREPARED
12/17/2025

ROUTE	STATE
D	MO
DISTRICT	SHEET NO.
SL	111

COUNTY
ST. LOUIS

JOB NO.
JSL0186

CONTRACT ID.

PROJECT NO.

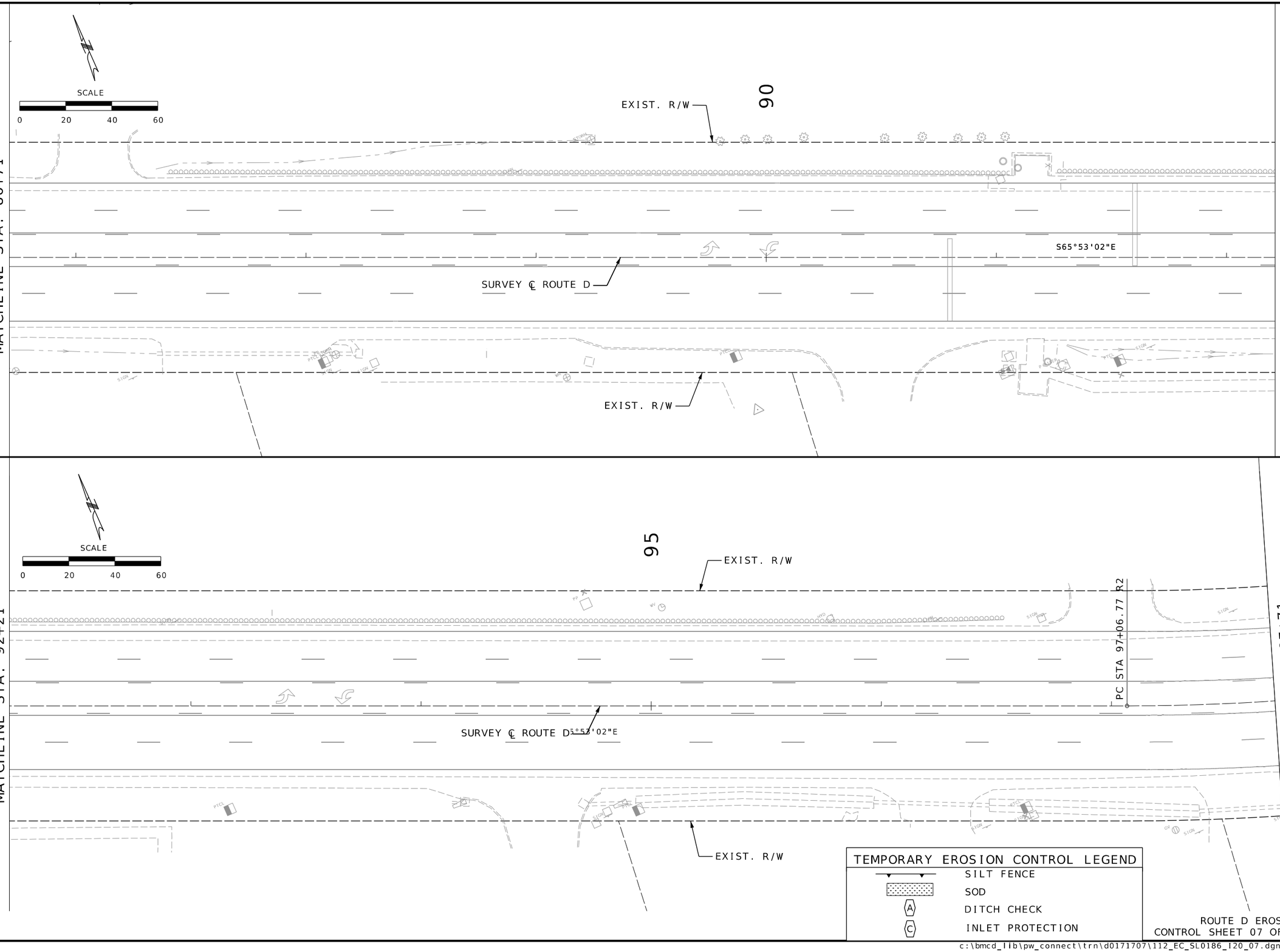
BRIDGE NO.

DESCRIPTION	DATE

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

Burns & McDonnell Engineering Co., Inc.
425 South Woods Mill Road
Chesterfield, Missouri 63017
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BMcD Project No. 170361

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TEMPORARY EROSION CONTROL LEGEND

- SILT FENCE
- SOD
- (A) DITCH CHECK
- (C) INLET PROTECTION

ROUTE D EROSION CONTROL SHEET 07 OF 13

THIS SHEET HAS BEEN SIGNED, SEALED, AND DATED ELECTRONICALLY

ALLISON M. BRUNER NUMBER PE-2019005896 STATE OF MISSOURI PROFESSIONAL ENGINEER

Digitally signed by Allison Bruner
Date: 2025.12.19 09:38:45-06'00'

DATE PREPARED
12/17/2025

ROUTE	STATE
D	MO
DISTRICT	SHEET NO.
SL	112

COUNTY
ST. LOUIS

JOB NO.
JSL0186

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)

Burns & McDonnell Engineering Co., Inc.
425 South Woods Mill Road
Chesterfield, Missouri 63017
314-682-1500
Certificate of Authority
No. : 000165

BMcD Project No. 170361

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MATCHLINE STA. 97+71

CONST. LIMITS

100

CASEY'S

CONST. LIMITS

TCE

EXIST. R/W

PT STA 99+36.32 R2

SURVEY ℄ ROUTE D

S79°39'02"E

INLET PROTECTION
+61.42

MATCHLINE STA. 103+21

EXIST. R/W

EXIST. EASEMENT

NEW R/W

DIELMAN RD.

CONST. LIMITS

CONST. LIMITS

EXIST. R/W

EXIST. EASEMENT

SCALE

0 20 40 60

MATCHLINE "A" - DIELMAN RD.

MATCHLINE STA. 103+21

CONST. LIMITS

BEGIN SILT FENCE
+70.79

END SILT FENCE
+83.82

TCE

105

CONST. LIMITS

EXIST. R/W

TCE

PT STA 107+72.95 R3

EQUATION:
STA 107+73.15 BK =
STA 107+72.95 AH

SCALE

0 20 40 60

MATCHLINE STA. 108+71

S79°39'02"E

SURVEY ℄ ROUTE D

S79°09'02"E

EXIST. EASEMENT

EXIST. R/W

AUTOZONE

TEMPORARY EROSION CONTROL LEGEND

- SILT FENCE
- SOD
- (A) DITCH CHECK
- (C) INLET PROTECTION

ROUTE D EROSION
CONTROL SHEET 08 OF 13

STATE OF MISSOURI
ALLISON M. BRUNER
NUMBER
PE-2019005896
PROFESSIONAL ENGINEER

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Digitally signed by Allison Bruner
Date: 2025.12.19 09:38:45-06'00'

DATE PREPARED
12/17/2025

ROUTE	STATE
D	MO
DISTRICT	SHEET NO.
SL	113

COUNTY
ST. LOUIS

JOB NO.
JSL0186

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)

Burns & McDonnell Engineering Co., Inc.
425 South Woods Mill Road
Chesterfield, Missouri 63017
314-682-1500
Certificate of Authority
No. : 000165

BMcD Project No. 170361

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MATCHLINE STA. 108+71

SCALE
0 20 40 60

SPENCER AVE.

110

CONST. LIMITS

EXIST. R/W

CONST. LIMITS

INLET PROTECTION
+30.22

S79°09'02"E

SURVEY ℄ ROUTE D

CONST. LIMITS

EXIST. R/W

MATCHLINE STA. 114+21

115

CONST. LIMITS

EXIST. R/W

PAGEWOOD AVE.

SCALE
0 20 40 60

INLET PROTECTION
+15.41

PC STA 116+99.78 R3

INLET PROTECTION
+15.41

S79°09'02"E

SURVEY ℄ ROUTE D

MATCHLINE STA. 114+21

MATCHLINE STA. 119+71

EXIST. R/W

RIDDLE CT.

TEMPORARY EROSION CONTROL LEGEND

- SILT FENCE
- SOD
- (A) DITCH CHECK
- (C) INLET PROTECTION

ROUTE D EROSION
CONTROL SHEET 09 OF 13

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STATE OF MISSOURI
ALLISON M. BRUNER
NUMBER PE-2019005896
PROFESSIONAL ENGINEER

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Date: 2025.12.19 09:38:45-06'00'

DATE PREPARED
12/17/2025

ROUTE	STATE
D	MO
DISTRICT	SHEET NO.
SL	114

COUNTY
ST. LOUIS

JOB NO.
JSL0186

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION	DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

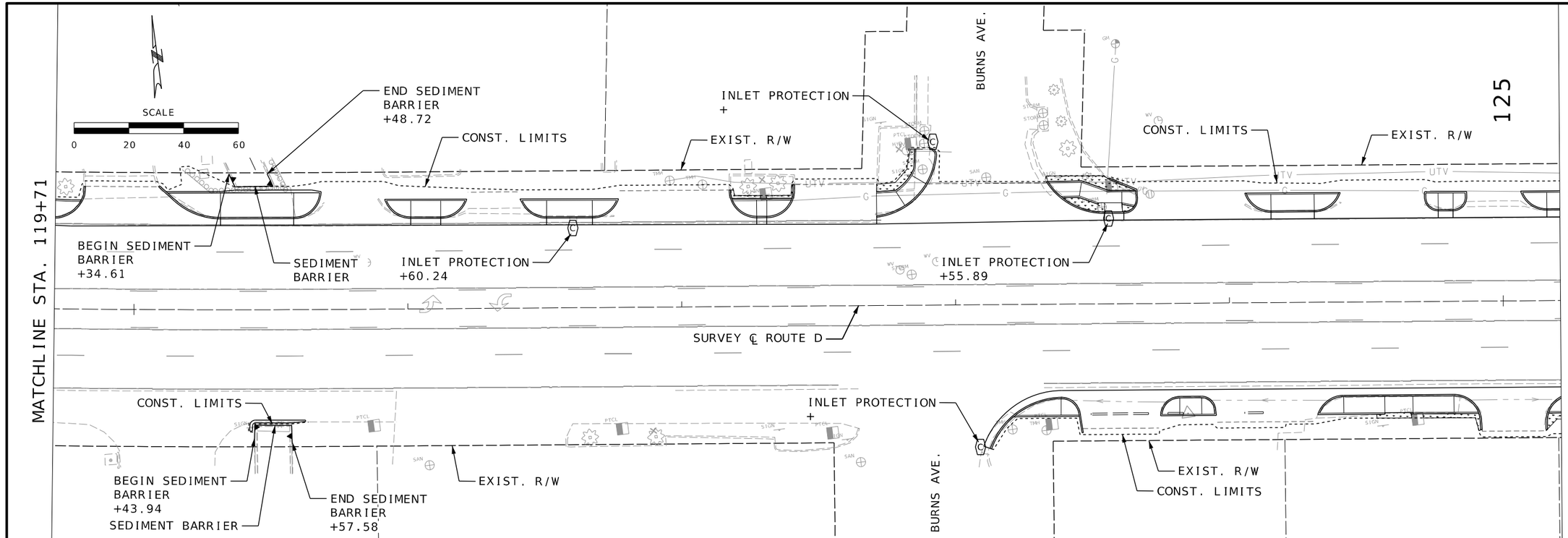
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

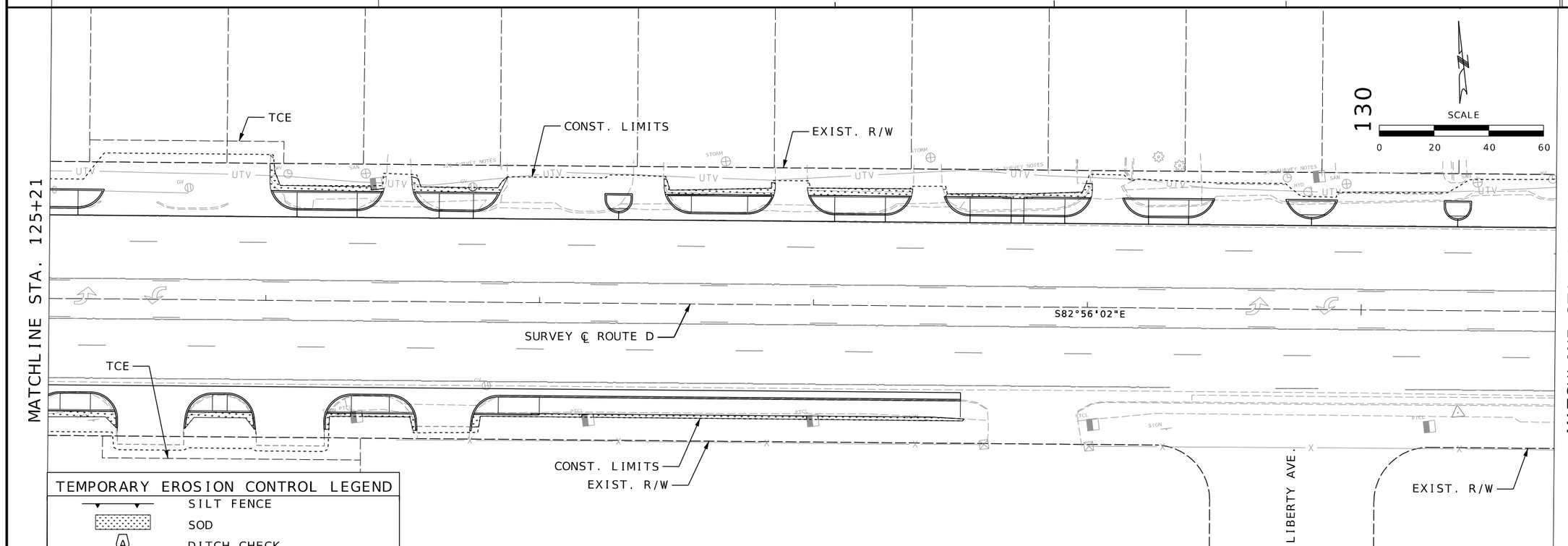
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425 South Woods Mill Road
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314-682-1500

Certificate of Authority
No.: 000165

BMcD Project No. 170361





ROUTE D EROSION CONTROL SHEET 10 OF 13

STATE OF MISSOURI
ALLISON M. BRUNER
NUMBER PE-2019005896
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED, AND DATED ELECTRONICALLY

Digitally signed by Allison Bruner
Date: 2025.12.19 09:38:46-06'00'

DATE PREPARED	
12/17/2025	
ROUTE	STATE
D	MO
DISTRICT	SHEET NO.
SL	115

COUNTY: ST. LOUIS
JOB NO.: JSL0186
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)

Burns & McDonnell Engineering Co., Inc.
425 South Woods Mill Road
Chesterfield, Missouri 63017
314-682-1500
Certificate of Authority No. : 000165
BMcD Project No. 170361

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MATCHLINE STA. 130+71

SCALE
0 20 40 60

EXIST. R/W

CONST. LIMITS

135

MATCHLINE STA. 136+21

SURVEY ℄ ROUTE D

S82°56'02"E

EXIST. R/W

PRICE RD.

EXIST. R/W

MATCHLINE "A" - WOODSON RD.

WOODSON RD.

CONST. LIMITS

EXIST. R/W

INLET PROTECTION
+84.81

TCE

NEW R/W

EXIST. R/W

INLET PROTECTION
+26.64

140

CONST. LIMITS

TCE

SCALE
0 20 40 60

MATCHLINE STA. 136+21

PC STA 137+45.65 R3

PT STA 139+80.54 R3

SURVEY ℄ ROUTE D

S80°35'02"E

MATCHLINE STA. 141+71

EXIST. R/W

INLET PROTECTION
+83.81

CONST. LIMITS

CONST. LIMITS

TCE

EXIST. R/W

MATCHLINE "B" - WOODSON RD.

TEMPORARY EROSION CONTROL LEGEND

- SILT FENCE
- SOD
- (A) DITCH CHECK
- (C) INLET PROTECTION

ROUTE D EROSION
CONTROL SHEET 11 OF 13

STATE OF MISSOURI
ALLISON M. BRUNER
NUMBER
PE-2019005896
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED, AND DATED ELECTRONICALLY

Digitally signed by Allison Bruner
Date: 2025.12.19 09:38:46-06'00'

DATE PREPARED
12/17/2025

ROUTE	STATE
D	MO
DISTRICT	SHEET NO.
SL	116

COUNTY
ST. LOUIS

JOB NO.
JSL0186

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION

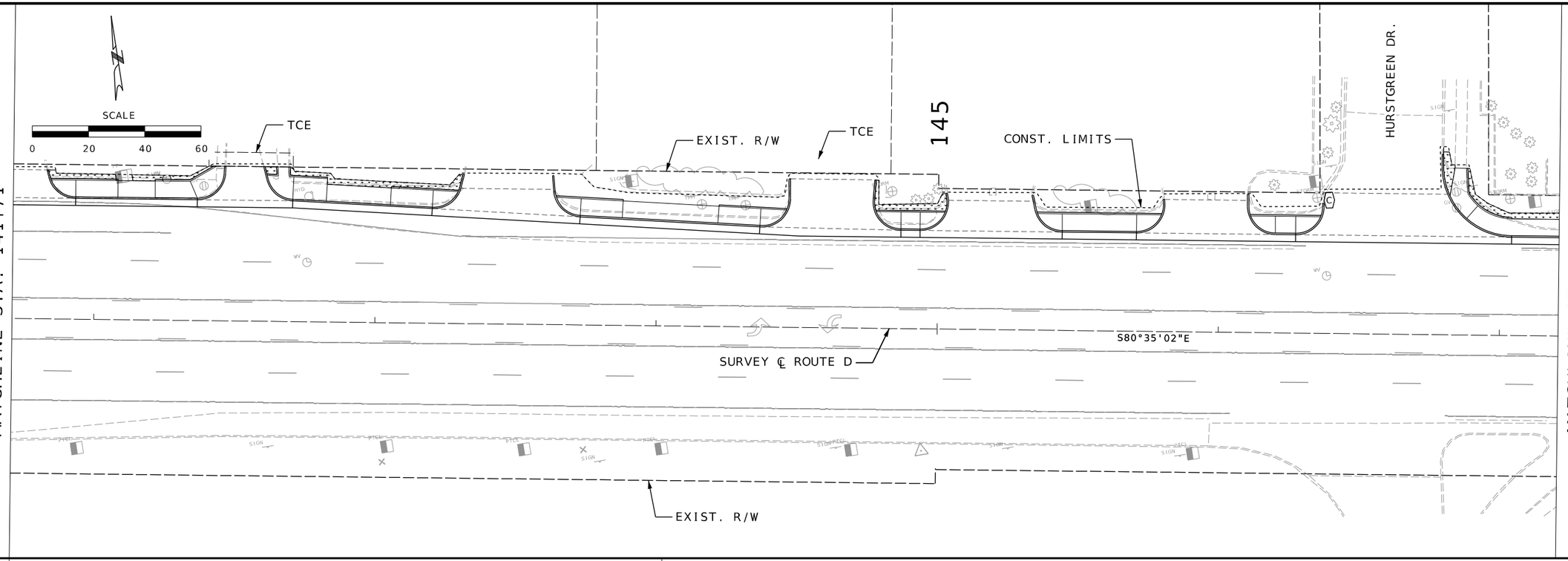
DATE

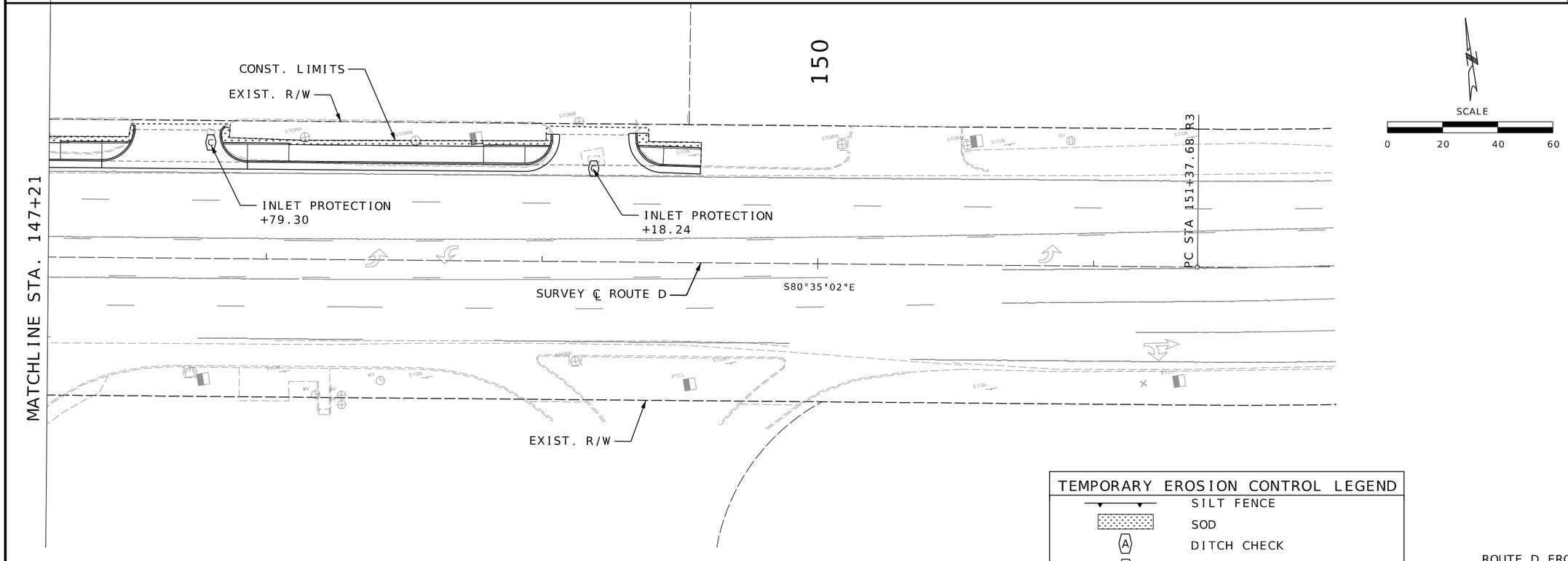
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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

Burns & McDonnell Engineering Co., Inc.
425 South Woods Mill Road
Chesterfield, Missouri 63017
314-682-1500
Certificate of Authority
No. : 000165
BMcD Project No. 170361

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TEMPORARY EROSION CONTROL LEGEND

- SILT FENCE
- SOD
- (A) DITCH CHECK
- (C) INLET PROTECTION

ROUTE D EROSION CONTROL SHEET 12 OF 13

ALLISON M. BRUNER NUMBER PE-2019005896
PROFESSIONAL ENGINEER — STATE OF MISSOURI

THIS SHEET HAS BEEN SIGNED, SEALED, AND DATED ELECTRONICALLY

Digitally signed by Allison Bruner
Date: 2025.12.19 09:38:46-06'00'

DATE PREPARED	12/17/2025
ROUTE	STATE
D	MO
DISTRICT	SHEET NO.
SL	117
COUNTY	ST. LOUIS
JOB NO.	JSL0186
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

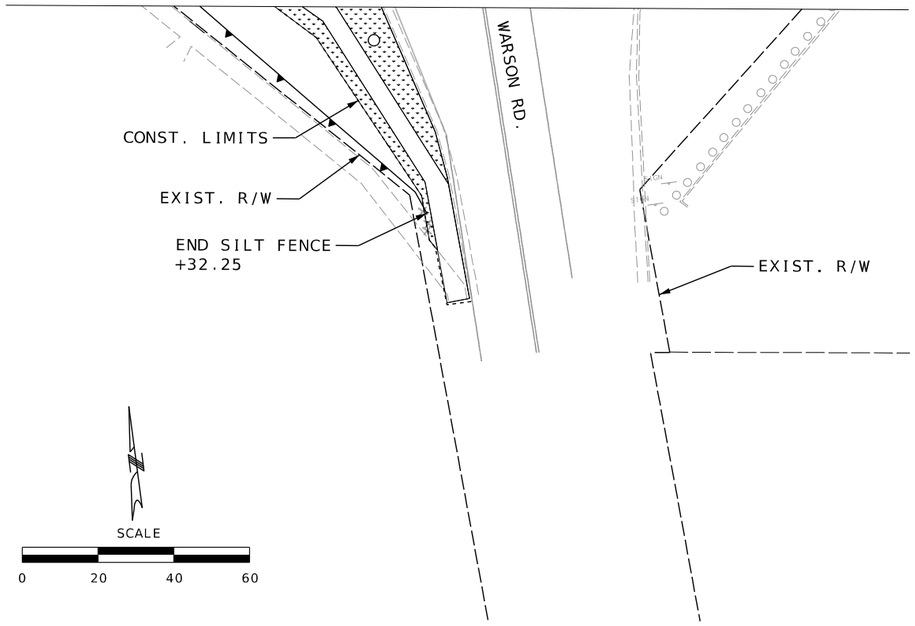
DESCRIPTION | DATE

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

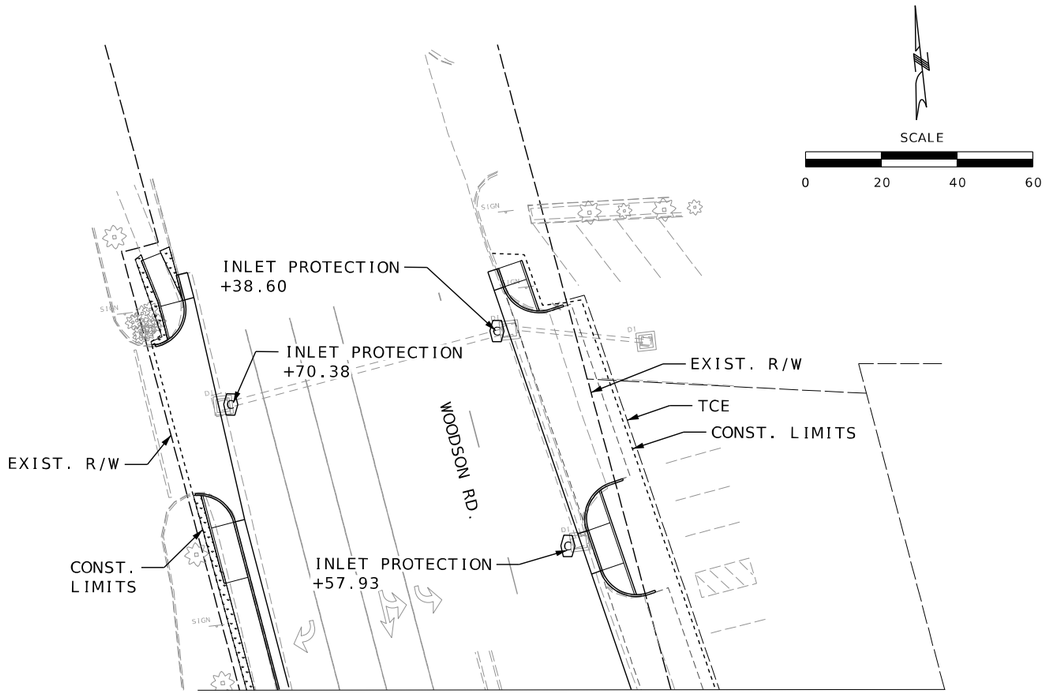
Burns & McDonnell Engineering Co., Inc.
425 South Woods Mill Road
Chesterfield, Missouri 63017
314-682-1500
Certificate of Authority
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BMcD Project No. 170361

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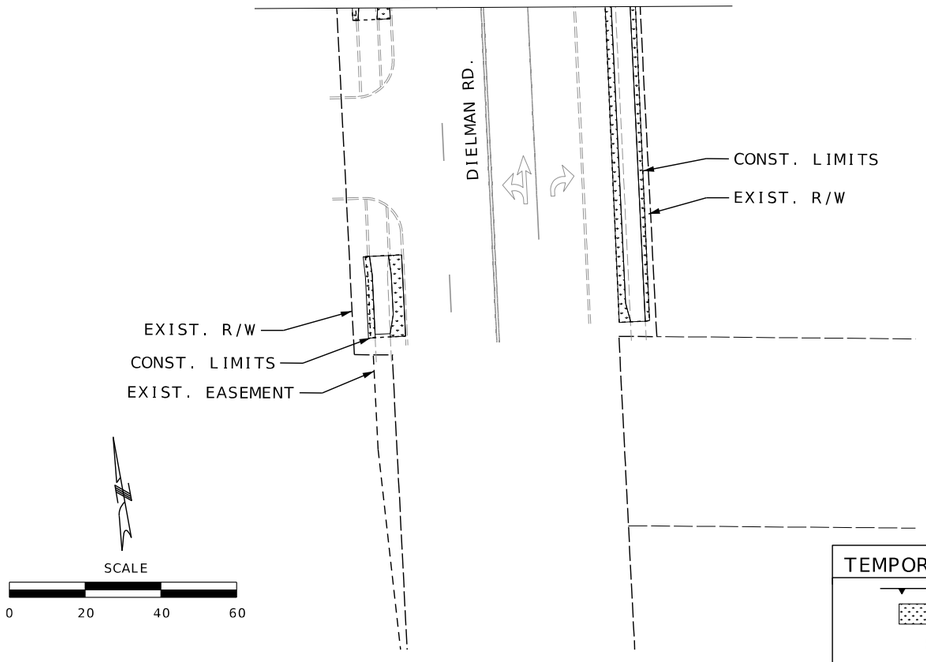
MATCHLINE "A" - WARSON RD.



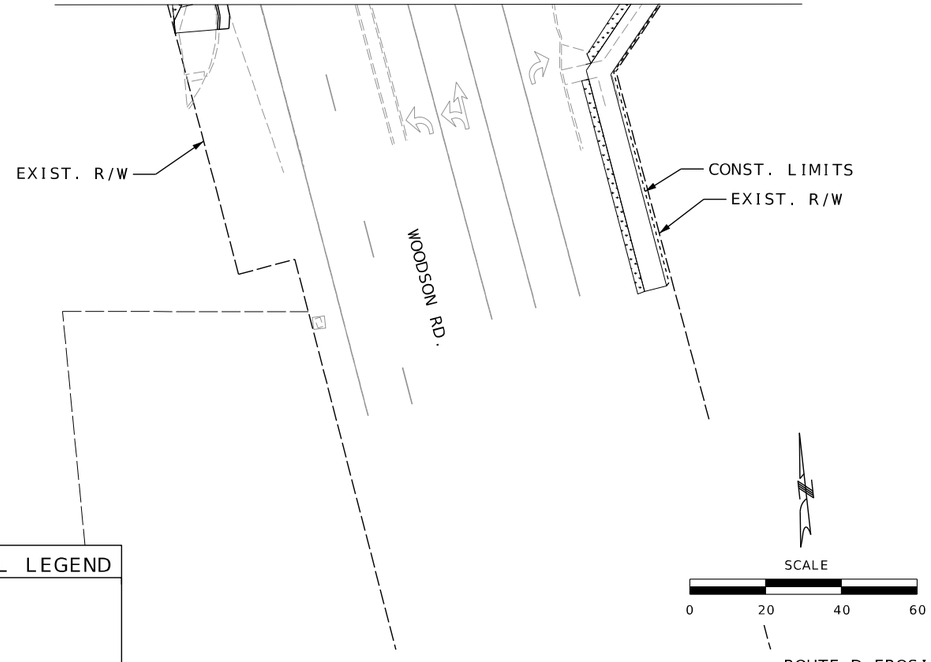
MATCHLINE "A" - WOODSON RD.



MATCHLINE "A" - DIELMAN RD.



MATCHLINE "B" - WOODSON RD.



TEMPORARY EROSION CONTROL LEGEND

- SILT FENCE
- SOD
- (A) DITCH CHECK
- (C) INLET PROTECTION

ROUTE D EROSION
CONTROL SHEET 13 OF 13

STATE OF MISSOURI
ALLISON M. BRUNER
NUMBER PE-2019005896
PROFESSIONAL ENGINEER

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Date: 2025.12.19 09:38:46-06'00'

DATE PREPARED: 12/17/2025

ROUTE	STATE
D	MO
DISTRICT	SHEET NO.
SL	118

COUNTY: ST. LOUIS
JOB NO.: JSL0186
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)

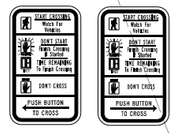
Burns & McDonnell Engineering Co., Inc.
425 South Woods Mill Road
Chesterfield, Missouri 63017
314-682-1500
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BMcD Project No. 170361

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TRAFFIC SIGNALS LEGEND

- CONTROLLER
- CONTROLLER (EXISTING)
- JCT JUNCTION BOX
- POWER SUPPLY
- WOOD POST
- SIGNAL HEAD (OPT LIM CONV)
- SIGNAL HEAD (OPT LIM)
- SIGNAL HEAD (PEDESTRIAN)
- SIGNAL HEAD (STANDARD)
- CCTV CAMERA
- VIDEO DETECTOR
- PUSH BUTTON DETECTOR
- PREFORMED PULL BOX TYPE 1
- PREFORMED PULL BOX TYPE 2
- CONCRETE PULL BOX TYPE 1
- CONCRETE PULL BOX TYPE 2
- ITS ITS PULL BOX TYPE 2
- ITS ITS PULL BOX TYPE 5
- 6 X 6 LOOP DETECTOR
- 6 X 15 LOOP DETECTOR
- 30 X 6 LOOP DETECTOR
- CONDUIT MEDIAN
- CONDUIT PUSHED
- CONDUIT BRIDGE
- CONDUIT EXISTING
- CONDUIT TRENCHED
- SPAN WIRE
- MAST ARM - TYPE A BASE
- MAST ARM - TYPE C BASE
- MAST ARM - TYPE F BASE

SIGNS

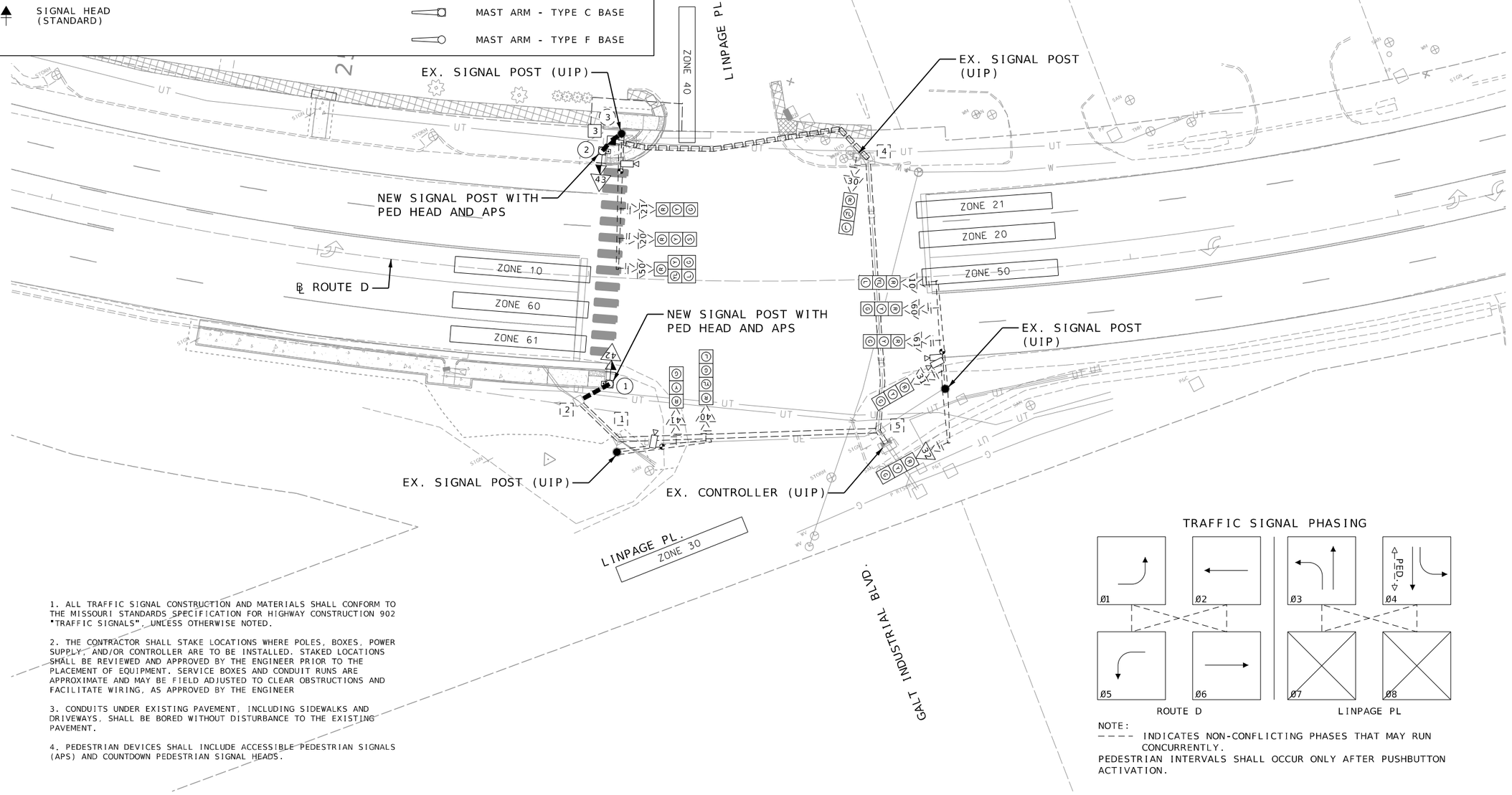


R10-3eL R10-3eR

R10-3e SIGNS ARE SHOWN FOR INFORMATION ONLY AND SHALL BE INCIDENTAL TO THE ACCESSIBLE PEDESTRIAN SIGNAL BID ITEM.

SCALE

0 20 40 60



1. ALL TRAFFIC SIGNAL CONSTRUCTION AND MATERIALS SHALL CONFORM TO THE MISSOURI STANDARDS SPECIFICATION FOR HIGHWAY CONSTRUCTION 902 "TRAFFIC SIGNALS", UNLESS OTHERWISE NOTED.

2. THE CONTRACTOR SHALL STAKE LOCATIONS WHERE POLES, BOXES, POWER SUPPLY, AND/OR CONTROLLER ARE TO BE INSTALLED. STAKED LOCATIONS SHALL BE REVIEWED AND APPROVED BY THE ENGINEER PRIOR TO THE PLACEMENT OF EQUIPMENT. SERVICE BOXES AND CONDUIT RUNS ARE APPROXIMATE AND MAY BE FIELD ADJUSTED TO CLEAR OBSTRUCTIONS AND FACILITATE WIRING, AS APPROVED BY THE ENGINEER

3. CONDUITS UNDER EXISTING PAVEMENT, INCLUDING SIDEWALKS AND DRIVEWAYS, SHALL BE BORED WITHOUT DISTURBANCE TO THE EXISTING PAVEMENT.

4. PEDESTRIAN DEVICES SHALL INCLUDE ACCESSIBLE PEDESTRIAN SIGNALS (APS) AND COUNTDOWN PEDESTRIAN SIGNAL HEADS.

TRAFFIC SIGNAL PHASING

NOTE:
---- INDICATES NON-CONFLICTING PHASES THAT MAY RUN CONCURRENTLY.
PEDESTRIAN INTERVALS SHALL OCCUR ONLY AFTER PUSHBUTTON ACTIVATION.

ROUTE D SIGNAL
SHEET 01 OF 48

STATE OF MISSOURI
ALLISON M. BRUNER
NUMBER PE-2019005896
PROFESSIONAL ENGINEER

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Digitally signed by Allison Bruner
Date: 2025.12.19 09:38:46-06'00'

DATE PREPARED
12/17/2025

ROUTE	STATE
D	MO
DISTRICT	SHEET NO.
SL	119

COUNTY
ST. LOUIS

JOB NO.
JSL0186

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)

Burns & McDonnell Engineering Co., Inc.
425 South Woods Mill Road
Chesterfield, Missouri 63017
314-682-1500
Certificate of Authority
No. : 000165
BMcD Project No. 170361

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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 | PULL BOX PREFORMED CLASS 2 | PULL BOX PREFORMED CLASS 3 | PULL BOX PREFORMED CLASS 5 | PULL BOX CONCRETE STANDARD | PULL BOX CONCRETE DOUBLE, TYPE A | PULL BOX CONCRETE DOUBLE, TYPE B | DRAIN TYPE* I | DRAIN TYPE* II A | DRAIN TYPE* II B | DRAIN TYPE* II C | TOP MOUNT POST 8 FT. | TOP MOUNT POST 15 FT. | TYPE C & CL ARM LENGTH 35' | 40' | 45' | 50' | 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' | TYPE B & BL LEFT ARM E SIGN SPACING F | G | H | H' | TYPE B & BL RIGHT ARM K SIGNAL SPACING L | M | N | N' | TYPE B & BL 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. |
|---|---|---

NOTES:
1) CABLE PAY TOTALS INCLUDE 5% ADDED FOR SNAKING.
2) CABLE QUANTITY FOR OPTIONAL DETECTION CABLE IS PROVIDED FOR INFORMATION ONLY. CABLE TO BE PAID FOR AS PART OF THE VIDEO DETECTION MODIFICATION BID ITEM.

EFFECTIVE: 10-01-2015

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	(1)	12′			13′												
3	(2)	6′			7′												
3	(3)	5′			6′												
4	3	100′							98′								
SUBTOTALS					26′				98′								
TOTALS					26′				98′								

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	VIDEO (SEE NOTE 2)	SINGLE-MODE	MULTI-MODE	
☒	42	124′				169′									PED. HEAD 42
☒	PB43	124′			168′										PUSH BUTTON 43
☒	43	211′				247′									PED. HEAD 43
☒	PB42	211′			246′										PUSH BUTTON 42
☒	50	210′					307′								
☒	21	210′					296′								INCLUDES JUMPER TO 20
☒	(3)	210′								236′					
(3)	⊶	0′									90′				
☒	▭ $_{1}$	210′										272′			VIDEO DETECTOR 1
SUBTOTALS					414′	416′	603′			236′	90′	272′			
TOTALS					440′	440′	640′			250′	100′	290′			

INTERSECTION _____ ROUTE D & LINPAGE PL ROUTE D SIGNAL SHEET 03 OF 42 D-37B

MSD BASE MAPS: 15L, 15M, 16K, 16L MSD PERMIT NUMBER: 25MSD-00026

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STATE OF MISSOURI
ALLISON M. BRUNER
NUMBER PE-2019005896
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED, AND DATED ELECTRONICALLY

Digitally signed by Allison Bruner
Date: 2025.12.19 09:38:46-06'00'

DATE PREPARED
12/17/2025

ROUTE	STATE
D	MO
DISTRICT	SHEET NO.
SL	121

COUNTY
ST. LOUIS

JOB NO.
JSL0186

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION

DATE

REV.

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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

Burns & McDonnell Engineering Co., Inc.

425 South Woods Mill Road
Chesterfield, Missouri 63017
314-682-1500

Certificate of Authority
No. : 000165

BMcD Project No. 170361

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				
ROUTE D	EXIST.	EXIST.	Type		15 Amps	Amps	Amps	Amps		Amps	Ci. Ft.	
			Type		15 Amps	Amps	Amps	Amps		Amps	Ci. Ft.	

CONTROLLER ASSEMBLY AND AUXILIARY EQUIPMENT

LOCATION			SYSTEM MASTER (CLOSED LOOP)		ACTUATED		ON-OFF* SWITCH TYPE		COORDINATION INTERFACE *						TIME * CLOCK	NEMA CABINET TYPE *			170 CABINET TYPE *		170 SOFTWARE *	
									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
ROUTE D	EXIST.	EXIST.																				

NEMA DETECTOR ASSIGNMENT

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

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

DETECTOR SCHEDULE

DETECTOR NUMBER	APPROACH	TYPE				
		ACCESSIBLE PEDESTRIAN PUSHBUTTON AND SIGNING	INDUCTION LOOP (2)			OPTIONAL DETECTION
			STANDARD	DELAY/ EXTEND *	CALL UNIT *	
10	EB ROUTE D					X
20	WB ROUTE D					X
21	WB ROUTE D					X
30	NB LINPAGE PL					X
40	SB LINPAGE PL					X
42	SB LINPAGE PL	1				
43	SB LINPAGE PL	1				
50	WB ROUTE D					X
60	EB ROUTE D					X
61	EB ROUTE D					X
TOTAL		2				1

*4 APPROACHES

* 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.

(3) SEE OPTIONAL DETECTION JSP FOR ADDITIONAL DETAILS. SIGNAL DETECTION SHALL BE PAID AS 1 PER INTERSECTION, INCLUDING ADVANCED DETECTION. THE CONTRACTOR SHALL PROVIDE AND INSTALL A VEHICLE DETECTION SYTEM FULLY COVERING ALL DETECTION ZONES AS SHOWN ON THE PLANS. THE METHOD CHOSEN SHALL COMPLY WITH MODOT'S STANDARDS AND SPECIFICATIONS. ALL EQUIPMENT USED IN THE SYSTEM SHALL BE IN ACCORDANCE WITH MODOT'S APPROVED PRODUCT LIST AND RECEIVE ST. LOUIS DISTRICT APPROVAL PRIOR TO INSTALLATION. THIS WILL BE A COMPLETE UNIT WIHT ALL COSTS INCLUDED.

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		
			SUBTOTAL		
			TOTAL		

NEMA LOAD SWITCH ASSIGNMENTS

1	2	3	4	5	6	7	8
Ø1	Ø2	Ø3	Ø4	Ø5	Ø6	FUTURE	FUTURE
9	10	11	12	13	14	15	16
FUTURE	PED Ø4	FUTURE	FUTURE	FUTURE	FUTURE	FUTURE	FUTURE

ROUTE D & LINPAGE PL
INTERSECTION

ROUTE D SIGNAL
SHEET 04 OF 48

D-37C

MSD BASE MAPS: 15L, 15M, 16K, 16L MSD PREMIT NUMBER: 25MSD-00026

STATE OF MISSOURI
ALLISON M. BRUNER
NUMBER PE-2019005896
PROFESSIONAL ENGINEER
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Date: 2025.12.19 09:38:46-06'00'

DATE PREPARED 12/17/2025
ROUTE D | STATE MO
DISTRICT SL | SHEET NO. 122
COUNTY ST. LOUIS
JOB NO. JSL0186
CONTRACT ID.
PROJECT NO.
BRIDGE NO.

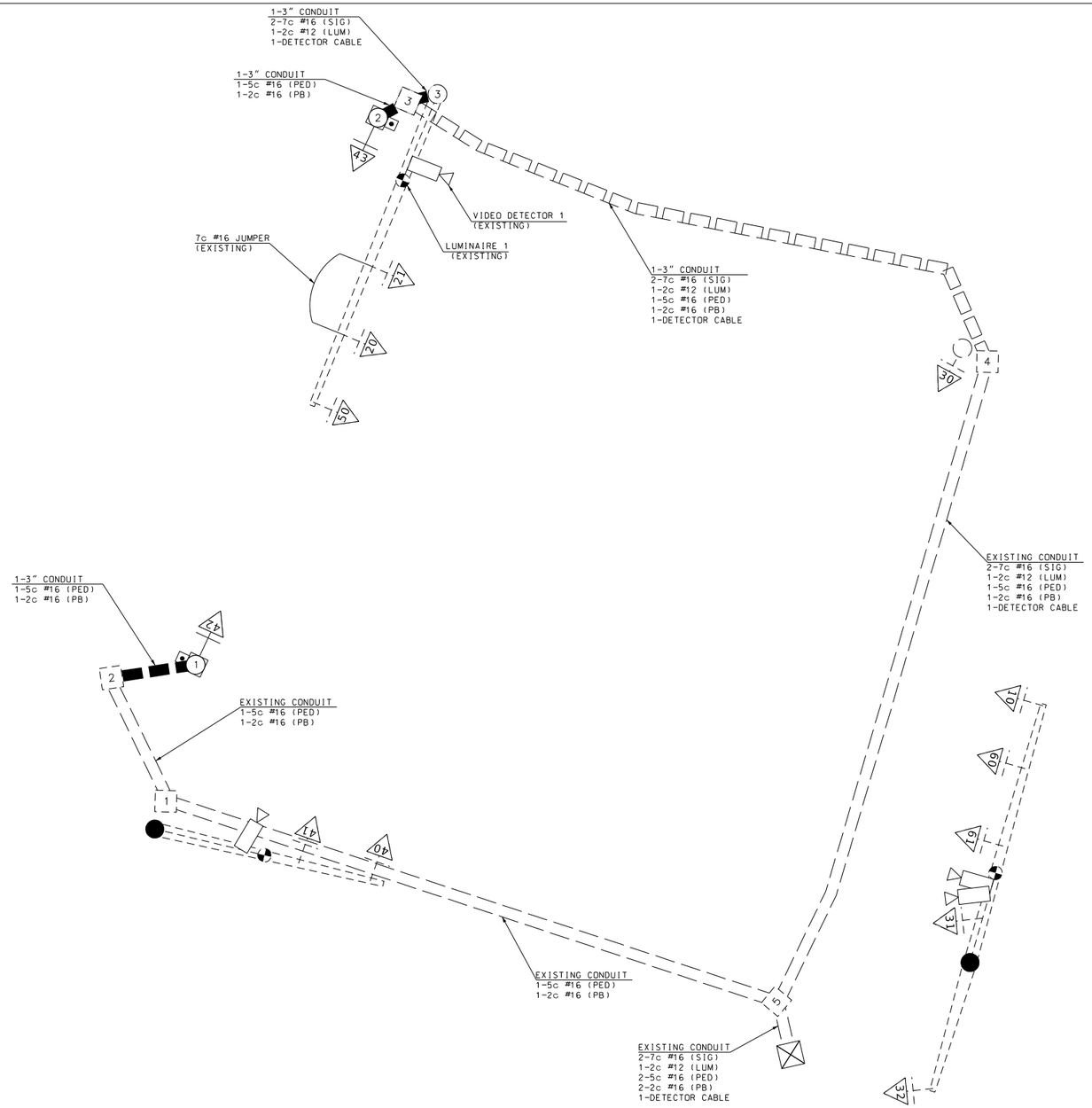
DESCRIPTION | DATE

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

Burns & McDonnell Engineering Co., Inc.
425 South Woods Mill Road
Chesterfield, Missouri 63017
314-682-1500
Certificate of Authority No. : 000165
BMcD Project No. 170361

EFFECTIVE: 12-01-2017

WIRING DIAGRAM (PROPOSED ONLY)



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

ROUTE D & LINPAGE PL

INTERSECTION

ROUTE D SIGNAL
SHEET 05 OF 48

D-37D

ALLISON M. BRUNER
NUMBER PE-2019005896
STATE OF MISSOURI
PROFESSIONAL ENGINEER

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12/17/2025

ROUTE	STATE
D	MO
DISTRICT	SHEET NO.
SL	123

COUNTY
ST. LOUIS

JOB NO.
JSL0186

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION	DATE

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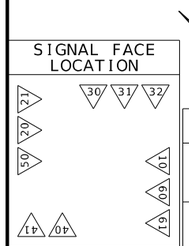
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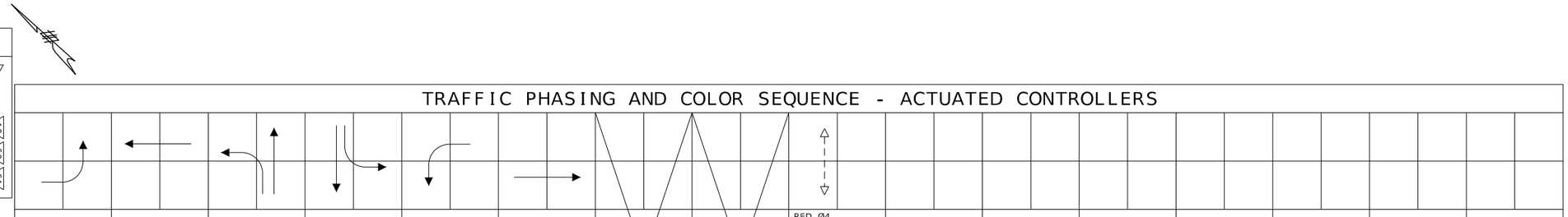
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EFFECTIVE: 12-01-2017

SIGNAL FACE LOCATION



TRAFFIC PHASING AND COLOR SEQUENCE - ACTUATED CONTROLLERS



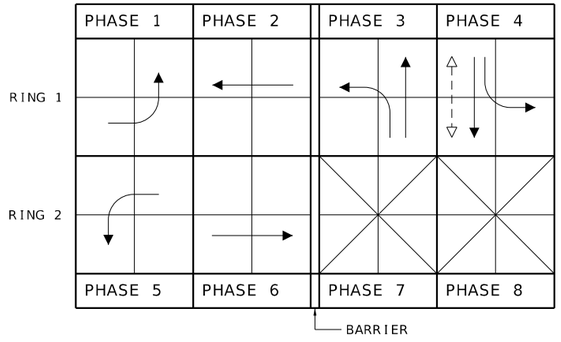
	PHASE 1	PHASE 2	PHASE 3	PHASE 4	PHASE 5	PHASE 6	PED Ø4
FACE NUMBERS	10	50	30	40	50	60	42
		21	32	41		61	43
SIGNAL INDICATIONS R	R	R	R	R		R	DW
SIGNAL INDICATIONS Y	YL	Y	YL	YL	YL	Y	FDW
SIGNAL INDICATIONS FYL							
SIGNAL INDICATIONS G	L	G	L	G	L	G	W
		S	G	L			
DETECTOR ASSIGNMENTS	10	50 21	30	31 32	40	41	50	60 61

DETECTOR ASSIGNMENTS (PEDS. ONLY)	42 43
OVERLAP PARENT PHASES	4

FACE NUMBERS

SIGNAL INDICATIONS R / Y / FYL / G

DETECTOR ASSIGNMENTS



RING STRUCTURE

IF CALLED, ALL NON-CONFLICTING PHASES SHALL COMBINE AND TIME CONCURRENTLY. TIME TO BE DETERMINED BY THE ENGINEER AT SIGNAL TURN ON AND SET IN THE CONTROLLER BY THE CONTRACTOR.

LEGEND

- ACTUATED VEHICULAR MOVEMENT
- PARTIALLY RESTRICTED ACTUATED VEHICULAR MOVEMENT
- NON-ACTUATED VEHICULAR MOVEMENT
- PARTIALLY RESTRICTED NON-ACTUATED VEHICULAR MOVEMENT
- ACTUATED PEDESTRIAN MOVEMENT
- NON-ACTUATED PEDESTRIAN MOVEMENT
- VEHICLE STOPPED

FDW — FLASHING DON'T WALK
W — WALK
DW — DON'T WALK
R/W — RIGHT OF WAY INTERVAL
YRt — YELLOW RIGHT ARROW
RT. — GREEN RIGHT ARROW
LY -YL — YELLOW LEFT ARROW
L — GREEN LEFT ARROW
S — GREEN STRAIGHT AHEAD ARROW
G — CIRCULAR GREEN
Y — CIRCULAR YELLOW
R — CIRCULAR RED
RL — RED LEFT ARROW
Ø — TRAFFIC PHASE
AO — ALL OTHERS
FR — FLASHING RED
FY — FLASHING CIRCULAR YELLOW
FYL — FLASHING YELLOW LEFT ARROW

FLASHING OPERATION	
ROUTE D	FR
LINPAGE PL	FR

CONTROLLER TYPE	NEMA

TRAFFIC SIGNAL CONTROL OPERATION

INTERSECTION OF ROUTE D

WITH LINPAGE PL

ROUTE D SIGNAL
SHEET 06 OF 48

D-38A

ALLISON M. BRUNER
NUMBER
PE-2019005896
STATE OF MISSOURI
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED, AND DATED ELECTRONICALLY
Digitally signed by Allison Bruner
Date: 2025.12.19 09:38:46-06'00'

DATE PREPARED: 12/17/2025

ROUTE	STATE
D	MO
DISTRICT	SHEET NO.
SL	124

COUNTY: ST. LOUIS

JOB NO.: JSL0186

CONTRACT ID.:

PROJECT NO.:

BRIDGE NO.:

DESCRIPTION | DATE | REV.

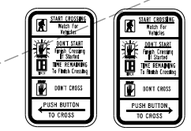
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

Burns & McDonnell Engineering Co., Inc.
425 South Woods Mill Road
Chesterfield, Missouri 63017
314-682-1500
Certificate of Authority
No.: 000165
BMcD Project No. 170361

TRAFFIC SIGNALS LEGEND

- CONTROLLER
- CONTROLLER (EXISTING)
- JUNCTION BOX
- POWER SUPPLY
- WOOD POST
- SIGNAL HEAD (OPT LIM CONV)
- SIGNAL HEAD (OPT LIM)
- SIGNAL HEAD (PEDESTRIAN)
- SIGNAL HEAD (STANDARD)
- CCTV CAMERA
- VIDEO DETECTOR
- PUSH BUTTON DETECTOR
- PREFORMED PULL BOX TYPE 1
- PREFORMED PULL BOX TYPE 2
- CONCRETE PULL BOX TYPE 1
- CONCRETE PULL BOX TYPE 2
- ITS PULL BOX TYPE 2
- ITS PULL BOX TYPE 5
- 6 X 6 LOOP DETECTOR
- 6 X 15 LOOP DETECTOR
- 30 X 6 LOOP DETECTOR
- CONDUIT MEDIAN
- CONDUIT PUSHED
- CONDUIT BRIDGE
- CONDUIT EXISTING
- CONDUIT TRENCHED
- SPAN WIRE
- MAST ARM - TYPE A BASE
- MAST ARM - TYPE C BASE
- MAST ARM - TYPE F BASE

SIGNS



R10-3eL R10-3eR

R10-3e SIGNS ARE SHOWN FOR INFORMATION ONLY AND SHALL BE INCIDENTAL TO THE ACCESSIBLE PEDESTRIAN SIGNAL BID ITEM.

SCALE 0 20 40 60

LOCUST AVE.

WARSON RD.

ZONE 70

ZONE 40

EX. SIGNAL POST (UIP)

NEW SIGNAL POST WITH PED HEAD AND APS

EX. SIGNAL POST (UIP)

NEW SIGNAL POST WITH PED HEAD AND APS

ZONE 10

ZONE 60

ZONE 61

ZONE 21

ZONE 20

ZONE 50

ROUTE D

NEW SIGNAL POST WITH PED HEAD AND APS

EX. CONTROLLER (UIP)

EX. SIGNAL POST (UIP)

ZONE 30

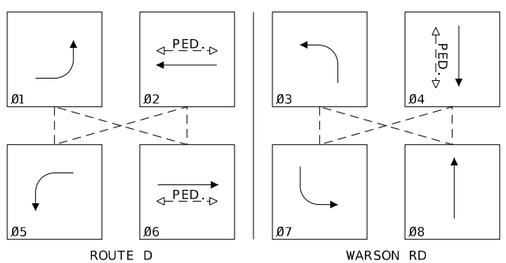
ZONE 80

EX. SIGNAL POST (UIP)

NEW SIGNAL POST WITH PED HEAD AND APS

WARSON RD.

TRAFFIC SIGNAL PHASING



ROUTE D WARSON RD

NOTE:
---- INDICATES NON-CONFLICTING PHASES THAT MAY RUN CONCURRENTLY.
PEDESTRIAN INTERVALS SHALL OCCUR ONLY AFTER PUSHBUTTON ACTIVATION.

1. ALL TRAFFIC SIGNAL CONSTRUCTION AND MATERIALS SHALL CONFORM TO THE MISSOURI STANDARDS SPECIFICATION FOR HIGHWAY CONSTRUCTION 902 "TRAFFIC SIGNALS", UNLESS OTHERWISE NOTED.

2. THE CONTRACTOR SHALL STAKE LOCATIONS WHERE POLES, BOXES, POWER SUPPLY, AND/OR CONTROLLER ARE TO BE INSTALLED. STAKED LOCATIONS SHALL BE REVIEWED AND APPROVED BY THE ENGINEER PRIOR TO THE PLACEMENT OF EQUIPMENT. SERVICE BOXES AND CONDUIT RUNS ARE APPROXIMATE AND MAY BE FIELD ADJUSTED TO CLEAR OBSTRUCTIONS AND FACILITATE WIRING, AS APPROVED BY THE ENGINEER

3. CONDUITS UNDER EXISTING PAVEMENT, INCLUDING SIDEWALKS AND DRIVEWAYS, SHALL BE BORED WITHOUT DISTURBANCE TO THE EXISTING PAVEMENT.

4. PEDESTRIAN DEVICES SHALL INCLUDE ACCESSIBLE PEDESTRIAN SIGNALS (APS) AND COUNTDOWN PEDESTRIAN SIGNAL HEADS.

ROUTE D SIGNAL
SHEET 07 OF 48

STATE OF MISSOURI
ALLISON M. BRUNER
NUMBER PE-2010005896
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED, AND DATED ELECTRONICALLY
Digitally signed by Allison Bruner
Date: 2025.12.19 09:38:47-06'00'

DATE PREPARED 12/17/2025

ROUTE	STATE
D	MO
DISTRICT	SHEET NO.
SL	125

COUNTY ST. LOUIS
JOB NO. JSL0186
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)

Burns & McDonnell Engineering Co., Inc.
425 South Woods Mill Road
Chesterfield, Missouri 63017
314-682-1500
Certificate of Authority No. : 000165
BMcD Project No. 170361

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 | PULL BOX PREFORMED CLASS 2 | PULL BOX PREFORMED CLASS 3 | PULL BOX PREFORMED CLASS 5 | PULL BOX CONCRETE STANDARD | PULL BOX CONCRETE DOUBLE, TYPE A | PULL BOX CONCRETE DOUBLE, TYPE B | DRAIN TYPE* I | DRAIN TYPE* II A | DRAIN TYPE* II B | DRAIN TYPE* II C | POST TOP MOUNT POST 8 FT. | POST TOP MOUNT POST 15 FT. | POST TYPE C & CL ARM LENGTH 35' | 40' | 45' | 50' | SIGNAL SPACING B | C | D | D' | SIGN SPACING B | C | D | D' | POST TYPE B & BL ARM LENGTH E | K | E | K | E | K | LEFT ARM E SIGNAL SPACING F | G | H | H' | SIGN SPACING F | G | H | H' | RIGHT ARM K SIGNAL SPACING L | M | N | N' | 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

NOTES:
1) CABLE PAY TOTALS INCLUDE 5% ADDED FOR SNAKING.

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	(2)	25′			26′												
2	(1)	3′			4′												
3	(3)	2′			3′												
3	(4)	18′			19′												
5	(5)	10′			11′												
7	(6)	4′			5′												
4	3	26′							24′								
6	7	42′							40′								
SUBTOTALS					68′				64′								
TOTALS					68′				64′								

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		SINGLE-MODE	MULTI-MODE	
	64	9′				33′									PED. HEAD 64
	PB63	9′			32′										PUSH BUTTON 63
	42	31′				55′									PED. HEAD 42
	PB43	31′			54′										PUSH BUTTON 43
	43	165′				201′									PED. HEAD 43
	PB42	165′			200′										PUSH BUTTON 42
	23	181′				217′									PED. HEAD 23
	PB24	181′			216′										PUSH BUTTON 24
	24	258′				294′									PED. HEAD 24
	PB23	258′			293′										PUSH BUTTON 23
	63	255′				191′									PED. HEAD 63
	PB64	255′			190′										PUSH BUTTON 64
SUBTOTALS					985′	991′									
TOTALS					1040′	1050′									

INTERSECTION _____ ROUTE D & WARSON RD ROUTE D SIGNAL SHEET 09 OF 42 D-37B

MSD BASE MAPS: 15L, 15M, 16K, 16L MSD PREMIT NUMBER: 25MSD-00026

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STATE OF MISSOURI
ALLISON M. BRUNER
NUMBER PE-2019005896
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED, AND DATED ELECTRONICALLY

Digitally signed by Allison Bruner
Date: 2025.12.19 09:38:47-06'00'

DATE PREPARED
12/17/2025

ROUTE	STATE
D	MO
DISTRICT	SHEET NO.
SL	127

COUNTY
ST. LOUIS

JOB NO.
JSL0186

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

REV.	DESCRIPTION	DATE

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

Burns & McDonnell Engineering Co., Inc.
425 South Woods Mill Road
Chesterfield, Missouri 63017
314-682-1500
Certificate of Authority
No. : 000165
BMcD Project No. 170361

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				
ROUTE D	EXIST.	EXIST.	Type		15 Amps	Amps	Amps	Amps		Amps	Ci. Ft.	
			Type		15 Amps	Amps	Amps	Amps		Amps	Ci. Ft.	

CONTROLLER ASSEMBLY AND AUXILIARY EQUIPMENT

LOCATION			SYSTEM MASTER (CLOSED LOOP)		ACTUATED		ON-OFF* SWITCH TYPE		COORDINATION INTERFACE *						TIME * CLOCK	NEMA CABINET TYPE *			170 CABINET TYPE *		170 SOFTWARE *	
									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
ROUTE D	EXIST.	EXIST.																				

NEMA DETECTOR ASSIGNMENT

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

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

DETECTOR SCHEDULE

DETECTOR NUMBER	APPROACH	TYPE				
		ACCESSIBLE PEDESTRIAN PUSHBUTTON AND SIGNING	INDUCTION LOOP (2)			OPTIONAL DETECTION
			STANDARD	DELAY/ EXTEND *	CALL UNIT *	
10	EB ROUTE D					X
20	WB ROUTE D					X
21	WB ROUTE D					X
23	WB ROUTE D	1				
24	WB ROUTE D	1				
30	NB WARSON RD					X
40	SB WARSON RD					X
42	SB WARSON RD	1				
43	SB WARSON RD	1				
50	WB ROUTE D					X
60	EB ROUTE D					X
61	EB ROUTE D					X
63	EB ROUTE D	1				
64	EB ROUTE D	1				
70	SB WARSON RD					X
80	NB WARSON RD					X
TOTAL		6				1

*4 APPROACHES

* 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.

(3) SEE OPTIONAL DETECTION JSP FOR ADDITIONAL DETAILS. SIGNAL DETECTION SHALL BE PAID AS 1 PER INTERSECTION, INCLUDING ADVANCED DETECTION. THE CONTRACTOR SHALL PROVIDE AND INSTALL A VEHICLE DETECTION SYTEM FULLY COVERING ALL DETECTION ZONES AS SHOWN ON THE PLANS. THE METHOD CHOSEN SHALL COMPLY WITH MODOT'S STANDARDS AND SPECIFICATIONS. ALL EQUIPMENT USED IN THE SYSTEM SHALL BE IN ACCORDANCE WITH MODOT'S APPROVED PRODUCT LIST AND RECEIVE ST. LOUIS DISTRICT APPROVAL PRIOR TO INSTALLATION. THIS WILL BE A COMPLETE UNIT WIHT ALL COSTS INCLUDED.

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		
			SUBTOTAL		
			TOTAL		

NEMA LOAD SWITCH ASSIGNMENTS

1	2	3	4	5	6	7	8
Ø1	Ø2	Ø3	Ø4	Ø5	Ø6	Ø7	Ø8
9	10	11	12	13	14	15	16
PED Ø2	PED Ø4	PED Ø6	FUTURE	FUTURE	OLB	FUTURE	OLD

ROUTE D & WARSON RD
INTERSECTION

ROUTE D SIGNAL
SHEET 10 OF 48

D-37C

MSD BASE MAPS: 15L, 15M, 16K, 16L MSD PREMIT NUMBER: 25MSD-00026

STATE OF MISSOURI
ALLISON M. BRUNER
NUMBER PE-2019005896
PROFESSIONAL ENGINEER
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DATE PREPARED 12/17/2025

ROUTE	STATE
D	MO
DISTRICT	SHEET NO.
SL	128

COUNTY: ST. LOUIS
JOB NO.: JSL0186
CONTRACT ID.:
PROJECT NO.:
BRIDGE NO.:

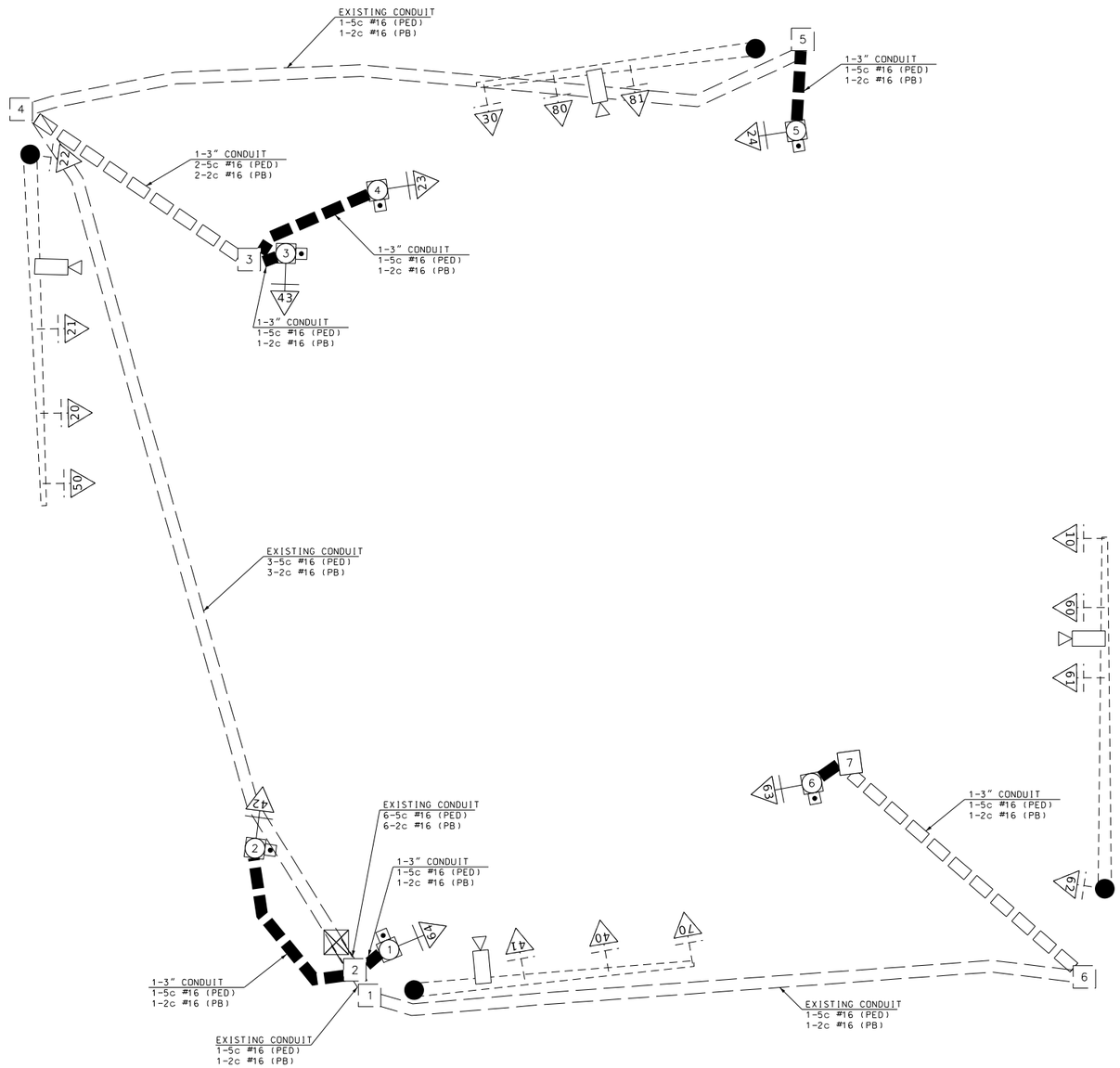
DESCRIPTION | DATE

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

Burns & McDonnell Engineering Co., Inc.
425 South Woods Mill Road
Chesterfield, Missouri 63017
314-682-1500
Certificate of Authority No. : 000165
BMcD Project No. 170361

EFFECTIVE: 12-01-2017

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

ROUTE D & WARSON RD

INTERSECTION ROUTE D SIGNAL

SHEET 11 OF 48 D-37D

STATE OF MISSOURI
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D	MO
DISTRICT	SHEET NO.
SL	129

COUNTY
ST. LOUIS

JOB NO.
JSL0186

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PROJECT NO.

BRIDGE NO.

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MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

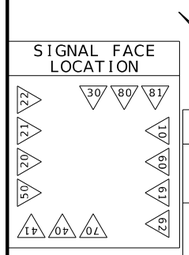
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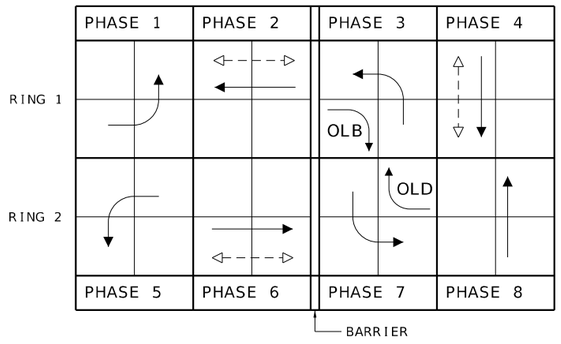
EFFECTIVE: 12-01-2017

SIGNAL FACE LOCATION



TRAFFIC PHASING AND COLOR SEQUENCE - ACTUATED CONTROLLERS

	PHASE 1	PHASE 2	PHASE 3	PHASE 4	PHASE 5	PHASE 6	PHASE 7	PHASE 8	PED Ø2	PED Ø4	PED Ø6	OVERLAP B	OVERLAP D
FACE NUMBERS	10	20 22 50	30	40 40	50	60 62 10	70	80 30	23	42	63	62	22
		21		41		61		81	24	43	64		
SIGNAL INDICATIONS R		R R R		R R		R R R		R R	DW	DW	DW		
SIGNAL INDICATIONS Y	YL	Y Y Y	YL	Y Y	YL	Y Y Y	YL	Y Y	FDW	FDW	FDW	YRt	YRt
SIGNAL INDICATIONS FYL													
SIGNAL INDICATIONS G	L	G G G	L	G G	L	G G G	L	G G	W	W	W	Rt	Rt
DETECTOR ASSIGNMENTS	10	20 21 22 50	30	40 70	50	60 61 62	70	80					
DETECTOR ASSIGNMENTS (PEDS. ONLY)									23 24	42 43	63 64		
OVERLAP PARENT PHASES									2	4	6	3	7



RING STRUCTURE

IF CALLED, ALL NON-CONFLICTING PHASES SHALL COMBINE AND TIME CONCURRENTLY. TIME TO BE DETERMINED BY THE ENGINEER AT SIGNAL TURN ON AND SET IN THE CONTROLLER BY THE CONTRACTOR.

LEGEND

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- ACTUATED PEDESTRIAN MOVEMENT
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- VEHICLE STOPPED

FDW — FLASHING DON'T WALK
W — WALK
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R/W — RIGHT OF WAY INTERVAL
YRt — YELLOW RIGHT ARROW
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L — GREEN LEFT ARROW
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R — CIRCULAR RED
RL — RED LEFT ARROW
Ø — TRAFFIC PHASE
AO — ALL OTHERS
FR — FLASHING RED
FY — FLASHING CIRCULAR YELLOW
FYL — FLASHING YELLOW LEFT ARROW

FLASHING OPERATION	
ROUTE D	FR
WARSON RD	FR
CONTROLLER TYPE	NEMA

TRAFFIC SIGNAL CONTROL OPERATION

INTERSECTION OF ROUTE D

WITH WARSON RD

ROUTE D SIGNAL
SHEET 12 OF 48

D-38A

MSD BASE MAPS: 15L, 15M, 16K, 16L MSD PERMIT NUMBER: 25MSD-00026

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D	MO
DISTRICT	SHEET NO.
SL	130

COUNTY: ST. LOUIS
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SCALE

0 20 40 60

SIGNS

R10-3eL R10-3eR

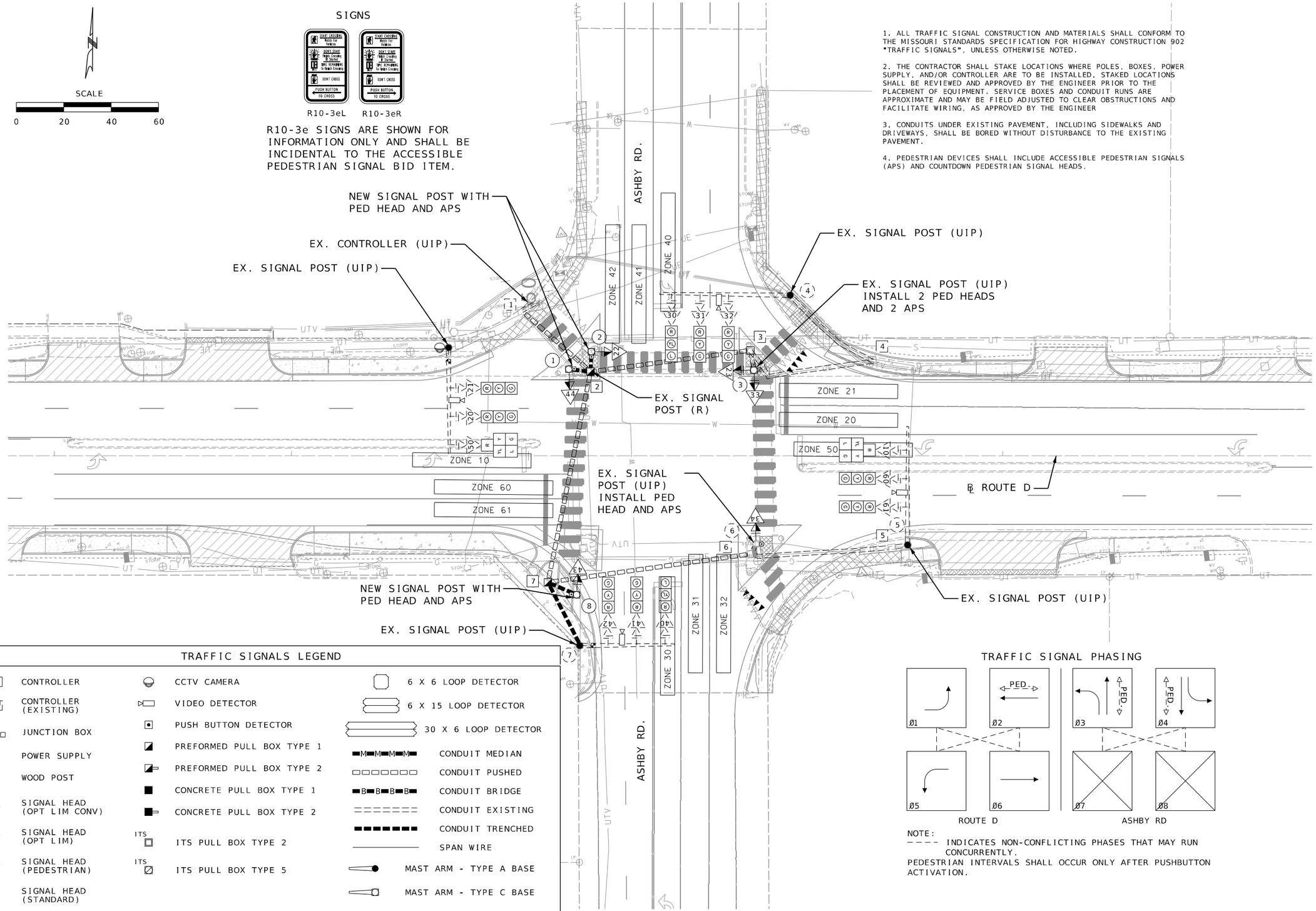
R10-3e SIGNS ARE SHOWN FOR INFORMATION ONLY AND SHALL BE INCIDENTAL TO THE ACCESSIBLE PEDESTRIAN SIGNAL BID ITEM.

1. ALL TRAFFIC SIGNAL CONSTRUCTION AND MATERIALS SHALL CONFORM TO THE MISSOURI STANDARDS SPECIFICATION FOR HIGHWAY CONSTRUCTION 902 "TRAFFIC SIGNALS", UNLESS OTHERWISE NOTED.

2. THE CONTRACTOR SHALL STAKE LOCATIONS WHERE POLES, BOXES, POWER SUPPLY, AND/OR CONTROLLER ARE TO BE INSTALLED. STAKED LOCATIONS SHALL BE REVIEWED AND APPROVED BY THE ENGINEER PRIOR TO THE PLACEMENT OF EQUIPMENT. SERVICE BOXES AND CONDUIT RUNS ARE APPROXIMATE AND MAY BE FIELD ADJUSTED TO CLEAR OBSTRUCTIONS AND FACILITATE WIRING, AS APPROVED BY THE ENGINEER

3. CONDUITS UNDER EXISTING PAVEMENT, INCLUDING SIDEWALKS AND DRIVEWAYS, SHALL BE BORED WITHOUT DISTURBANCE TO THE EXISTING PAVEMENT.

4. PEDESTRIAN DEVICES SHALL INCLUDE ACCESSIBLE PEDESTRIAN SIGNALS (APS) AND COUNTDOWN PEDESTRIAN SIGNAL HEADS.



TRAFFIC SIGNALS LEGEND

CONTROLLER	CCTV CAMERA	6 X 6 LOOP DETECTOR	
CONTROLLER (EXISTING)	VIDEO DETECTOR	6 X 15 LOOP DETECTOR	
JUNCTION BOX	PUSH BUTTON DETECTOR	30 X 6 LOOP DETECTOR	
POWER SUPPLY	PREFORMED PULL BOX TYPE 1	CONDUIT MEDIAN	
WOOD POST	PREFORMED PULL BOX TYPE 2	CONDUIT PUSHED	
SIGNAL HEAD (OPT LIM CONV)	CONCRETE PULL BOX TYPE 1	CONDUIT BRIDGE	
SIGNAL HEAD (OPT LIM)	CONCRETE PULL BOX TYPE 2	CONDUIT EXISTING	
SIGNAL HEAD (PEDESTRIAN)	ITS PULL BOX TYPE 2	CONDUIT TRENCHED	
SIGNAL HEAD (STANDARD)	ITS PULL BOX TYPE 5	SPAN WIRE	
		MAST ARM - TYPE A BASE	
		MAST ARM - TYPE C BASE	
		MAST ARM - TYPE F BASE	

TRAFFIC SIGNAL PHASING

NOTE:
---- INDICATES NON-CONFLICTING PHASES THAT MAY RUN CONCURRENTLY.
PEDESTRIAN INTERVALS SHALL OCCUR ONLY AFTER PUSHBUTTON ACTIVATION.

ROUTE D SIGNAL
SHEET 13 OF 48

ALLISON M. BRUNER
NUMBER
PE-2019005896
STATE OF MISSOURI
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED, AND DATED ELECTRONICALLY

Digitally signed by Allison Bruner
Date: 2025.12.19 09:38:47-06'00'

DATE PREPARED
12/17/2025

ROUTE	STATE
D	MO
DISTRICT	SHEET NO.
SL	131

COUNTY
ST. LOUIS

JOB NO.
JSL0186

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)

Burns & McDonnell Engineering Co., Inc.
425 South Woods Mill Road
Chesterfield, Missouri 63017
314-682-1500
Certificate of Authority No.: 000165
BMcD Project No. 170361

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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 | PULL BOX PREFORMED CLASS 2 | PULL BOX PREFORMED CLASS 3 | PULL BOX PREFORMED CLASS 5 | PULL BOX CONCRETE STANDARD | PULL BOX CONCRETE DOUBLE, TYPE A | PULL BOX CONCRETE DOUBLE, TYPE B | DRAIN TYPE* I | DRAIN TYPE* II A | DRAIN TYPE* II B | DRAIN TYPE* II C | TOP MOUNT POST 8 FT. | TOP MOUNT POST 15 FT. | TYPE C & CL ARM LENGTH 35' | 40' | 45' | 50' | 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' | TYPE B & BL LEFT ARM E SIGN SPACING F | G | H | H' | TYPE B & BL RIGHT ARM K SIGNAL SPACING L | M | N | N' | TYPE B & BL 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

NOTES:
1) CABLE PAY TOTALS INCLUDE 5% ADDED FOR SNAKING.
2) CABLE QUANTITY FOR OPTIONAL DETECTION CABLE IS PROVIDED FOR INFORMATION ONLY. CABLE TO BE PAID FOR AS PART OF THE VIDEO DETECTION MODIFICATION BID ITEM.

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	2	35′							33′								
2	①	7′			8′												
2	②	6′			7′												
2	3	65′							63′								
2	7	88′							86′								
7	⑦	27′			28′												
7	⑧	10′			11′												
7	6	84′							82′								
SUBTOTALS					54′				264′								
TOTALS					54′				264′								

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	VIDEO (SEE NOTE 2)	SINGLE-MODE	MULTI-MODE	
		49′				79′									PED. HEAD 44
		49′			78′										PUSH BUTTON 43
		48′				78′									PED. HEAD 22
		48′			77′										PUSH BUTTON 23
		140′				176′									PED. HEAD 43
		140′			175′										PUSH BUTTON 44
		157′								183′					
		0′									68′				
		157′					240′								
		157′					228′								INCLUDES JUMPER TO 41
		157′										201′			VIDEO DETECTOR 3
		216′				258′									PED. HEAD 43
		216′			257′										PUSH BUTTON 33
		275′					374′								
		275′					362′								INCLUDES JUMPER TO 60
		275′										336′			VIDEO DETECTOR 2
		113′				149′									PED. HEAD 33
		113′			148′										PUSH BUTTON 34
		113′				149′									PED. HEAD 23
		113′			148′										PUSH BUTTON 22
		211′					314′								
		211′					302′								INCLUDES JUMPER TO 31
		211′										274′			VIDEO DETECTOR 1
SUBTOTALS					883′	889′	1820′			183′	68′	811′			
TOTALS					930′	940′	1920′			200′	80′	860′			

INTERSECTION ROUTE D & ASHBY RD — ROUTE D SIGNAL SHEET 15 OF 42 — D-37B

MSD BASE MAPS: 15L, 15M, 16K, 16L MSD PREMIT NUMBER: 25MSD-00026

c:\bmcd_lib\pw_connect\trn\d0171707\133_SG_SL0186_l1_15.dgn 9:48:54 AM 12/17/2025

STATE OF MISSOURI — ALLISON M. BRUNER NUMBER PE-2019005896 — PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED, AND DATED ELECTRONICALLY

Digitally signed by Allison Bruner
Date: 2025.12.19 09:38:47-06'00'

DATE PREPARED 12/17/2025

ROUTE	STATE
D	MO
DISTRICT	SHEET NO.
SL	133

COUNTY ST. LOUIS

JOB NO. JSL0186

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION

DATE

REV.

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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

Burns & McDonnell Engineering Co., Inc.
425 South Woods Mill Road
Chesterfield, Missouri 63017
314-682-1500
Certificate of Authority
No. : 000165
BMcD Project No. 170361

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					
							MAIN BREAKER					
APPROACH	STATION	OFFSET	DRAWING 902.15	DRAWING	AUXILIARY BREAKER	CONT & SIGNAL LAMPS	SIGNALS	LIGHTING	120 VOLT CONTROL CABINET	MAIN BREAKER	CONTRACT FURNISH	UTILITY COMPANY
ROUTE D	EXIST.	EXIST.	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
ROUTE D	EXIST.	EXIST.																				

NEMA DETECTOR ASSIGNMENT

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

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

DETECTOR SCHEDULE

DETECTOR NUMBER	APPROACH	TYPE				
		ACCESSIBLE PEDESTRIAN PUSHBUTTON AND SIGNING	INDUCTION LOOP (2)			OPTIONAL DETECTION
			STANDARD	DELAY/ EXTEND *	CALL UNIT *	
10	EB ROUTE D					X
20	WB ROUTE D					X
21	WB ROUTE D					X
22	WB ROUTE D	1				
23	WB ROUTE D	1				
30	NB ASHBY RD					X
31	NB ASHBY RD					X
32	NB ASHBY RD					X
33	NB ASHBY RD	1				
34	NB ASHBY RD	1				
40	SB ASHBY RD					X
41	SB ASHBY RD					X
42	SB ASHBY RD					X
43	SB ASHBY RD	1				
44	SB ASHBY RD	1				
50	WB ROUTE D					X
60	EB ROUTE D					X
61	EB ROUTE D					X
TOTAL		6				1

*4 APPROACHES

* 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.

(3) SEE OPTIONAL DETECTION JSP FOR ADDITIONAL DETAILS. SIGNAL DETECTION SHALL BE PAID AS 1 PER INTERSECTION, INCLUDING ADVANCED DETECTION. THE CONTRACTOR SHALL PROVIDE AND INSTALL A VEHICLE DETECTION SYTEM FULLY COVERING ALL DETECTION ZONES AS SHOWN ON THE PLANS. THE METHOD CHOSEN SHALL COMPLY WITH MODOT'S STANDARDS AND SPECIFICATIONS. ALL EQUIPMENT USED IN THE SYSTEM SHALL BE IN ACCORDANCE WITH MODOT'S APPROVED PRODUCT LIST AND RECEIVE ST. LOUIS DISTRICT APPROVAL PRIOR TO INSTALLATION. THIS WILL BE A COMPLETE UNIT WIHT ALL COSTS INCLUDED.

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		
			SUBTOTAL		
			TOTAL		

NEMA LOAD SWITCH ASSIGNMENTS

1	2	3	4	5	6	7	8
Ø1	Ø2	Ø3	Ø4	Ø5	Ø6		FUTURE
9	10	11	12	13	14	15	16
PED Ø2	PED Ø3	PED Ø4	FUTURE	FUTURE	FUTURE	FUTURE	FUTURE

ROUTE D & ASHBY RD
INTERSECTION

ROUTE D SIGNAL
SHEET 16 OF 48

D-37C

MSD BASE MAPS: 15L, 15M, 16K, 16L MSD PREMIT NUMBER: 25MSD-00026

STATE OF MISSOURI
ALLISON M. BRUNER
NUMBER PE-2019005896
PROFESSIONAL ENGINEER
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Digitally signed by Allison Bruner
Date: 2025.12.19 09:38:47-06'00'

DATE PREPARED 12/17/2025
ROUTE D | STATE MO
DISTRICT SL | SHEET NO. 134
COUNTY ST. LOUIS
JOB NO. JSL0186
CONTRACT ID.
PROJECT NO.
BRIDGE NO.

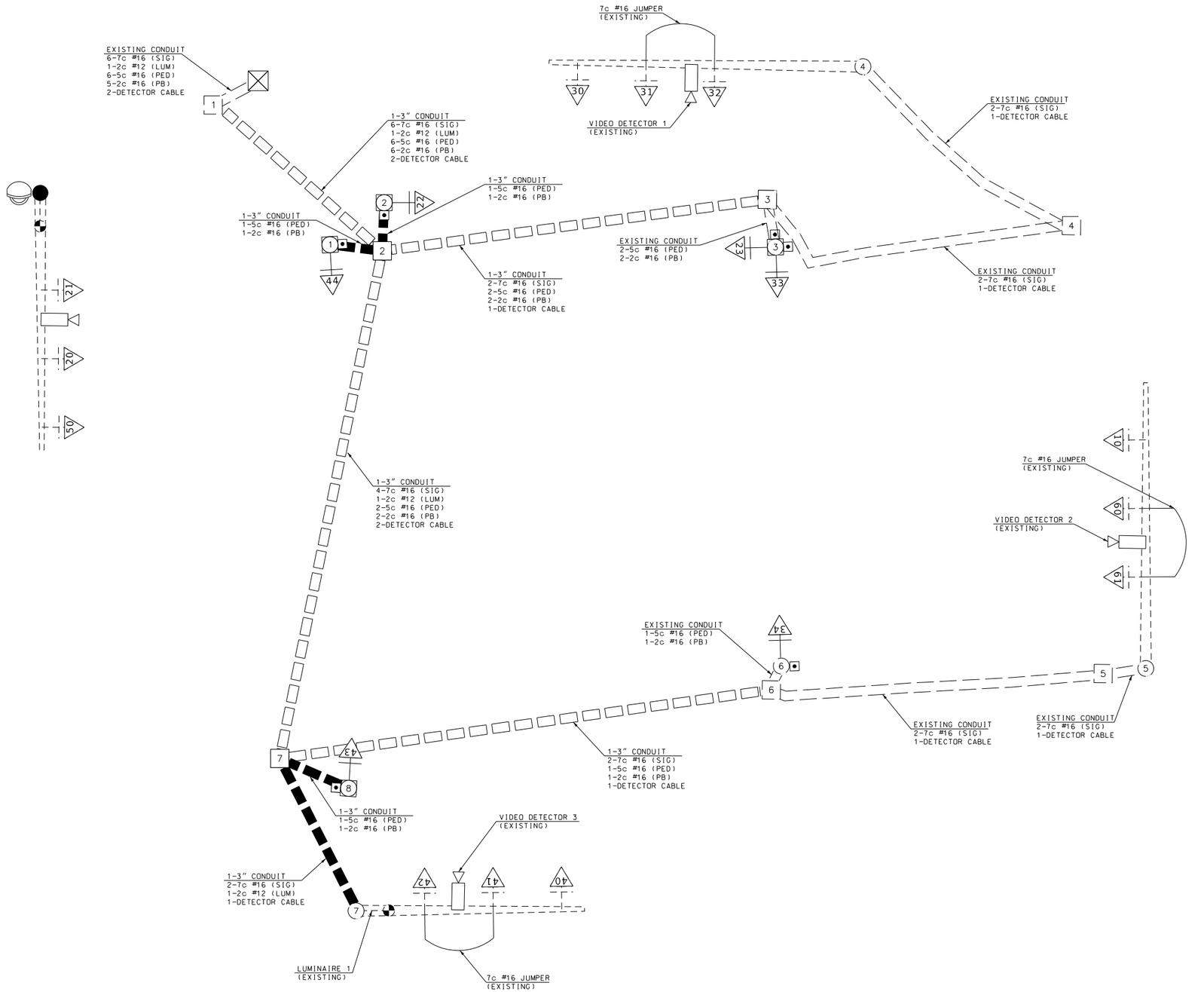
DESCRIPTION | DATE

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

Burns & McDonnell Engineering Co., Inc.
425 South Woods Mill Road
Chesterfield, Missouri 63017
314-682-1500
Certificate of Authority No. : 000165
BMcD Project No. 170361

EFFECTIVE: 12-01-2017

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

ALLISON M. BRUNER
NUMBER
PE-2019005896
STATE OF MISSOURI
PROFESSIONAL ENGINEER

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ROUTE	STATE
D	MO
DISTRICT	SHEET NO.
SL	135

COUNTY
ST. LOUIS

JOB NO.
JSL0186

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION	DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
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ROUTE D & ASHBY RD

INTERSECTION

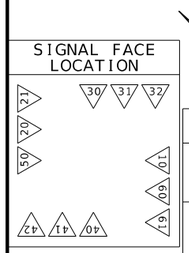
ROUTE D SIGNAL
SHEET 17 OF 48

D-37D

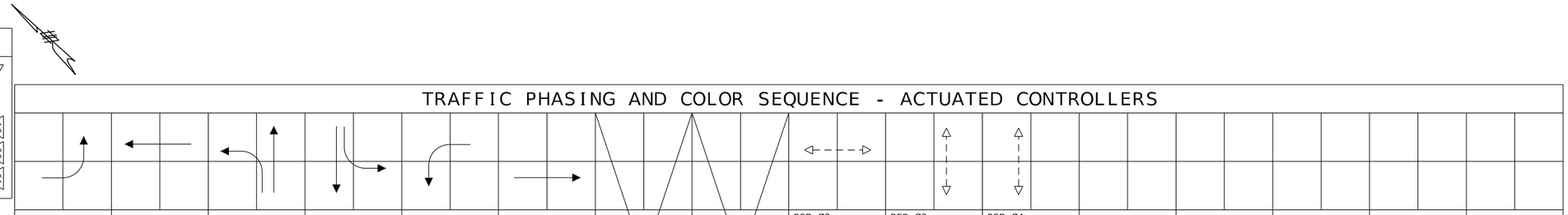
c:\bmcd_lib\pw_connect\trn\d0171707\135_SG_SL0186_I1_17.dgn 9:49:22 AM 12/17/2025

EFFECTIVE: 12-01-2017

SIGNAL FACE LOCATION

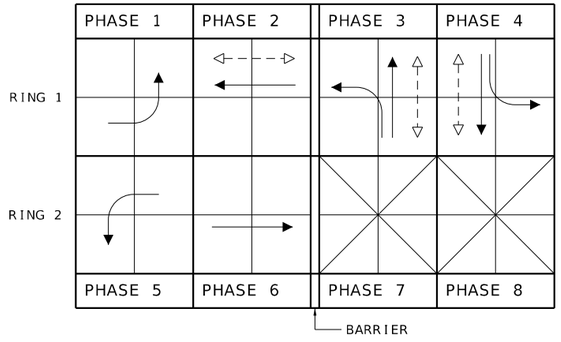


TRAFFIC PHASING AND COLOR SEQUENCE - ACTUATED CONTROLLERS



	PHASE 1	PHASE 2	PHASE 3	PHASE 4	PHASE 5	PHASE 6	PED Ø2	PED Ø3	PED Ø4
FACE NUMBERS	10	20	30	40	50	60	22	33	43
		21	32	42		61	23	34	44
SIGNAL INDICATIONS R		R	R	R		R	DW	DW	DW
SIGNAL INDICATIONS Y	YL	Y	YL	YL	YL	Y	FDW	FDW	FDW
SIGNAL INDICATIONS FYL									
SIGNAL INDICATIONS G	L	G	L	G	L	G	W	W	W
DETECTOR ASSIGNMENTS	10	20 21	30 31 32	40 41 42	50	60 61	10		
DETECTOR ASSIGNMENTS (PEDS. ONLY)							22 23	33 34	43 44
OVERLAP PARENT PHASES							2	3	4

FACE NUMBERS / SIGNAL INDICATIONS / DETECTOR ASSIGNMENTS (duplicated)



RING STRUCTURE

IF CALLED, ALL NON-CONFLICTING PHASES SHALL COMBINE AND TIME CONCURRENTLY. TIME TO BE DETERMINED BY THE ENGINEER AT SIGNAL TURN ON AND SET IN THE CONTROLLER BY THE CONTRACTOR.

LEGEND

- ACTUATED VEHICULAR MOVEMENT
- PARTIALLY RESTRICTED ACTUATED VEHICULAR MOVEMENT
- NON-ACTUATED VEHICULAR MOVEMENT
- PARTIALLY RESTRICTED NON-ACTUATED VEHICULAR MOVEMENT
- ACTUATED PEDESTRIAN MOVEMENT
- NON-ACTUATED PEDESTRIAN MOVEMENT
- VEHICLE STOPPED
- FDW — FLASHING DON'T WALK
- W — WALK
- DW — DON'T WALK
- R/W — RIGHT OF WAY INTERVAL
- YRt — YELLOW RIGHT ARROW
- RT. — GREEN RIGHT ARROW
- LY -YL — YELLOW LEFT ARROW
- L — GREEN LEFT ARROW
- S — GREEN STRAIGHT AHEAD ARROW
- G — CIRCULAR GREEN
- Y — CIRCULAR YELLOW
- R — CIRCULAR RED
- RL — RED LEFT ARROW
- Ø — TRAFFIC PHASE
- AO — ALL OTHERS
- FR — FLASHING RED
- FY — FLASHING CIRCULAR YELLOW
- FYL — FLASHING YELLOW LEFT ARROW

FLASHING OPERATION	
ROUTE D	FR
ASHBY RD	FR

CONTROLLER TYPE	NEMA

TRAFFIC SIGNAL CONTROL OPERATION

INTERSECTION OF ROUTE D

WITH ASHBY RD

ROUTE D SIGNAL
SHEET 18 OF 48

D-38A

ALLISON M. BRUNER
NUMBER PE-2019005896
PROFESSIONAL ENGINEER
STATE OF MISSOURI
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ROUTE	STATE
D	MO
DISTRICT	SHEET NO.
SL	136

COUNTY: ST. LOUIS

JOB NO.: JSL0186

CONTRACT ID.:

PROJECT NO.:

BRIDGE NO.:

DESCRIPTION | DATE | REV.

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

Burns & McDonnell Engineering Co., Inc.
425 South Woods Mill Road
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No. : 000165
BMcD Project No. 170361

SCALE
0 20 40 60

1. ALL TRAFFIC SIGNAL CONSTRUCTION AND MATERIALS SHALL CONFORM TO THE MISSOURI STANDARDS SPECIFICATION FOR HIGHWAY CONSTRUCTION 902 "TRAFFIC SIGNALS", UNLESS OTHERWISE NOTED.

2. THE CONTRACTOR SHALL STAKE LOCATIONS WHERE POLES, BOXES, POWER SUPPLY, AND/OR CONTROLLER ARE TO BE INSTALLED. STAKED LOCATIONS SHALL BE REVIEWED AND APPROVED BY THE ENGINEER PRIOR TO THE PLACEMENT OF EQUIPMENT. SERVICE BOXES AND CONDUIT RUNS ARE APPROXIMATE AND MAY BE FIELD ADJUSTED TO CLEAR OBSTRUCTIONS AND FACILITATE WIRING, AS APPROVED BY THE ENGINEER

3. CONDUITS UNDER EXISTING PAVEMENT, INCLUDING SIDEWALKS AND DRIVEWAYS, SHALL BE BORED WITHOUT DISTURBANCE TO THE EXISTING PAVEMENT.

4. PEDESTRIAN DEVICES SHALL INCLUDE ACCESSIBLE PEDESTRIAN SIGNALS (APS) AND COUNTDOWN PEDESTRIAN SIGNAL HEADS.

SIGNS

Page Ave
D3-1 (SP-1)
(60"x18")

Page Ind Blvd
D3-1 (SP-2)
(96"x18")

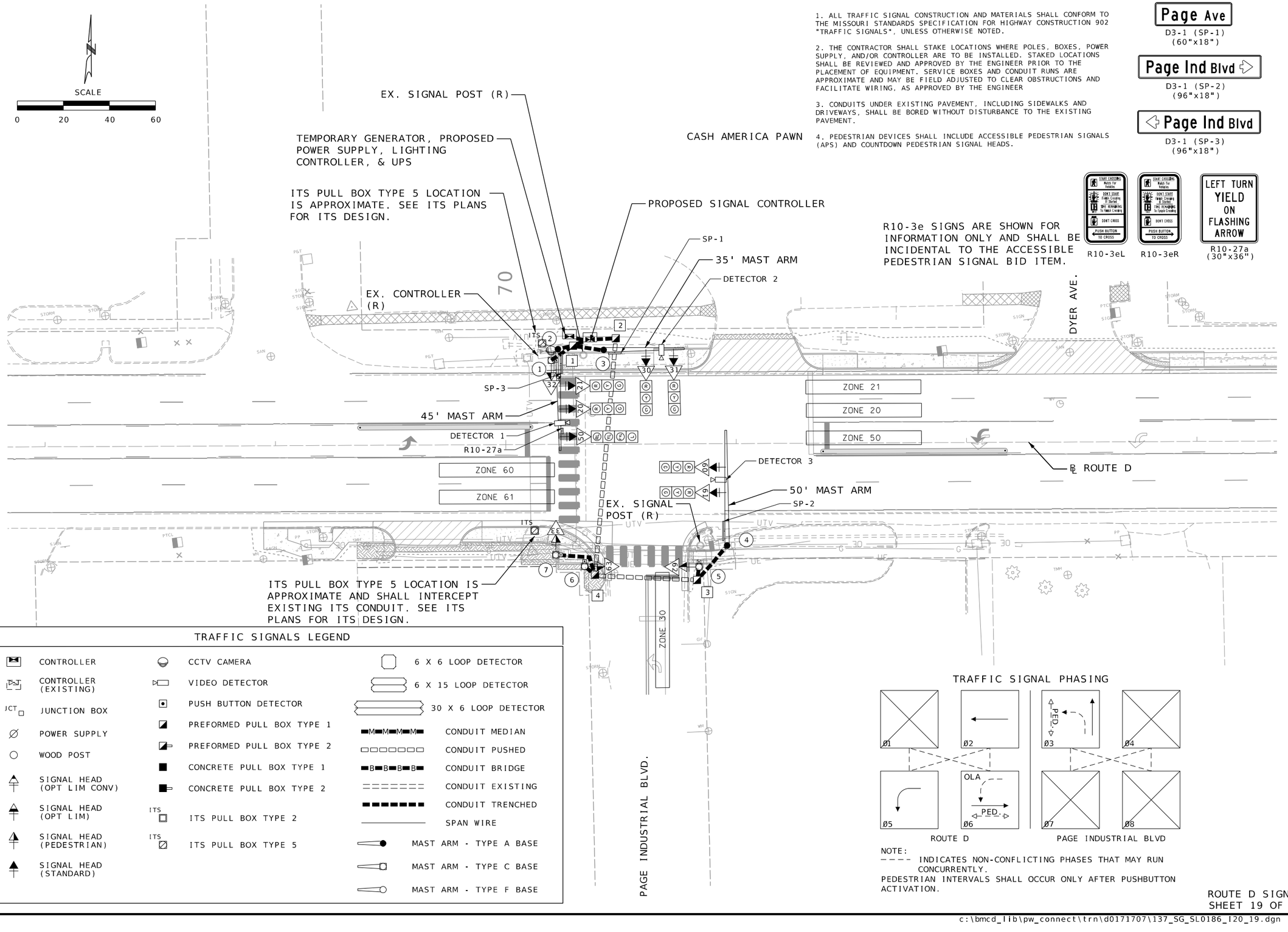
Page Ind Blvd
D3-1 (SP-3)
(96"x18")

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R10-3eL

R10-3eR

R10-27a
(30"x36")



TRAFFIC SIGNALS LEGEND

CONTROLLER	CCTV CAMERA	6 X 6 LOOP DETECTOR	
CONTROLLER (EXISTING)	VIDEO DETECTOR	6 X 15 LOOP DETECTOR	
JUNCTION BOX	PUSH BUTTON DETECTOR	30 X 6 LOOP DETECTOR	
POWER SUPPLY	PREFORMED PULL BOX TYPE 1	CONDUIT MEDIAN	
WOOD POST	PREFORMED PULL BOX TYPE 2	CONDUIT PUSHED	
SIGNAL HEAD (OPT LIM CONV)	CONCRETE PULL BOX TYPE 1	CONDUIT BRIDGE	
SIGNAL HEAD (OPT LIM)	CONCRETE PULL BOX TYPE 2	CONDUIT EXISTING	
SIGNAL HEAD (PEDESTRIAN)	ITS PULL BOX TYPE 2	CONDUIT TRENCHED	
SIGNAL HEAD (STANDARD)	ITS PULL BOX TYPE 5	SPAN WIRE	
		MAST ARM - TYPE A BASE	
		MAST ARM - TYPE C BASE	
		MAST ARM - TYPE F BASE	

TRAFFIC SIGNAL PHASING

ROUTE D PAGE INDUSTRIAL BLVD

NOTE:
---- INDICATES NON-CONFLICTING PHASES THAT MAY RUN CONCURRENTLY.
PEDESTRIAN INTERVALS SHALL OCCUR ONLY AFTER PUSHBUTTON ACTIVATION.

ROUTE D SIGNAL
SHEET 19 OF 48

ALLISON M. BRUNER NUMBER PE-2019005896
PROFESSIONAL ENGINEER
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COUNTY
ST. LOUIS
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314-682-1500
Certificate of Authority
No. : 000165
BMcD Project No. 170361

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EFFECTIVE: 07/01/2018

POST

POST NUMBER	PULL BOX NUMBER	LOCATION: APPROACH	LOCATION: STATION	LOCATION: OFFSET	BASE: A (9, 9.5, 10, 10.5, 11, 12)	BASE: F (9, 9.5, 10, 10.5, 11, 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	II B	II C	TOP MOUNT POST 8 FT.	TOP MOUNT POST 15 FT.	TYPE C & CL: ARM LENGTH 35'	40'	45'	50'	SIGNAL SPACING B	C	D	D'	SIGN SPACING B	C	D	D'	TYPE B & BL: ARM LENGTH E	K	E	K	E	K	LEFT ARM E: SIGNAL SPACING F	G	H	H'	SIGN SPACING F	G	H	H'	RIGHT ARM K: SIGNAL SPACING L	M	N	N'	SIGN SPACING L	M	N	N'	INCLUDED ANGLE	LUMINAIRE BRACKET ARM* 4 FT.	6 FT.	8 FT.	10 FT.	12 FT.	15 FT.
			CONTROLLER	(AS REQ'D)																																																					
1		ROUTE D	70+19.88	36.5' LT				0.44													1																																						
2		ROUTE D	70+22.80	41.3' LT				3.27																1			16'	10'	12'		5'	29'																										
3		ROUTE D	70+42.68	39.9' LT	1			3.01															1				15'	12'		4'																												
4		ROUTE D	70+95.85	44.2' RT				3.27																	1		23'	11'		5'																												
5		ROUTE D	70+83.65	53.4' RT				0.44													1																																						
6		ROUTE D	70+33.95	53.0' RT				0.44													1																																						
7		ROUTE D	70+21.50	47.9' LT				0.44													1																																						
	1	ROUTE D	70+29.40	42.8' LT						1						1																																									
	2	ROUTE D	70+47.95	45.9' LT						1						1																																									
	3	ROUTE D	70+82.72	59.1' RT					1							1																																									
	4	ROUTE D	70+38.46	56.6' RT						1						1																																									
				SUBTOTAL				11.31	1	3											4		1		1	1																																		
				TOTAL				11.40	1	3											4		1		1	1																																		

SIGNAL HEADS

| SPAN NUMBER | POST NUMBER | FACE NUMBER | LUMINAIRE LED-A | INDICATIONS * 12" LENS CONVENTIONAL R | Y | YL | YRt | FYL | RL | G | S | L | Rt | 12" LENS OPTICAL LIMITING R | Y | YL | YRt | YL | YRt | G | S | L | Rt | VISORS * 12" LENS | PED. | LOUVERS * A | B | C | D | E | F | BACKPLATE* LENSES 1 | 2 | 3 | 4 | 5 | RETROREFLECTIVE BACKPLATE* LENSES 1 | 2 | 3 | 4 | 5 | BRACKET* TYPE I | II | III | ONE-FACE SECTION 1- T | S | C | B | 3- T | S | C | B | 4- T | S | C | B | 5- T | S | C | B | TWO-FACE SECTIONS 11- T | S | B | 33- T | S | C | B | 34- S | B | 35- S | B | 44- S | B | 45- S | B |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---

NOTES:
1) CABLE PAY TOTALS INCLUDE 5% ADDED FOR SNAKING.
2) CABLE QUANTITY FOR CAT-5 CABLE IS PROVIDED FOR INFORMATION ONLY. CABLE TO BE PAID FOR AS PART OF THE CCTV ASSEMBLY BID ITEM.
3) CABLE QUANTITY FOR OPTIONAL DETECTION CABLE IS PROVIDED FOR INFORMATION ONLY. CABLE TO BE PAID FOR AS PART OF THE SL DISTRICT TRAFFIC SIGNAL DETECTION SYSTEM BID ITEM.

EFFECTIVE: 10-01-2015

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"		
∅	☒	9′			13′												
☒	1	8′			12′												
☒	2	10′			14′												
1	①	12′			13′												
1	②	7′			8′												
1	③	13′			14′												
2	4	100′							98′								
4	⑥	3′			4′												
4	⑦	21′			22′												
4	3	43′							41′								
3	④	19′			20′												
3	⑤	5′			6′												
SUBTOTALS					126′				139′								
TOTALS					126′				139′								

CABLE

FROM	TO	CENTER TO CENTER DISTANCE	POWER	CONTROL					LUMINAIRE		DETECTOR	FIBER		REMARKS
			1c #2	2c #16	5c #16	7c #16	3c #16	CAT-5 CABLE (SEE NOTE 2)	CONTROL 2c #12	POLE & BRACKET 1c #10	OPTIONAL DET. CABLE (SEE NOTE 2)	SINGLE-MODE	MULTI-MODE	
∅	☒	9′	156′											3 RUNS OF 1c #2
☒	32	20′			44′									PED. HEAD 32
☒	PB33	20′		43′										PUSH BUTTON 33
☒	50	15′				88′								
☒	21	15′				76′								INCLUDES JUMPER TO 20
☒	D_1	15′									86′			DETECTOR 1
☒	②	15′							29′					
②	1	0′								80′				
☒	30	21′				87′								INCLUDES JUMPER TO 31
☒	D_2	21′									85′			DETECTOR 2
☒	33	131′			161′									PED. HEAD 33
☒	PB32	131′		160′										PUSH BUTTON 32
☒	63	113′			143′									PED. HEAD 63
☒	PB62	113′		142′										PUSH BUTTON 62
☒	62	158′			194′									PED. HEAD 62
☒	PB63	158′		193′										PUSH BUTTON 63
☒	61	172′				253′								INCLUDES JUMPER TO 60
☒	D_3	172′									252′			DETECTOR 3
☒	⬭	15′						94′						SEE ITS PLAN SHEETS
SUBTOTALS			156′	538′	542′	504′		94′	29′	80′	423′			
TOTALS			170′	570′	570′	530′		100′	40′	90′	450′			

INTERSECTION ROUTE D & PAGE INDUSTRIAL BLVD — ROUTE D SIGNAL SHEET 21 OF 42 — D-37B

MSD BASE MAPS: 15L, 15M, 16K, 16L MSD PERMIT NUMBER: 25MSD-00026

ALLISON M. BRUNER NUMBER PE-2019005896 — STATE OF MISSOURI — PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED, AND DATED ELECTRONICALLY
Digitally signed by Allison Bruner
Date: 2025.12.19 09:38:48-06'00'

DATE PREPARED 12/17/2025

ROUTE	STATE
D	MO
DISTRICT	SHEET NO.
SL	139

COUNTY: ST. LOUIS
JOB NO.: JSL0186
CONTRACT ID.:
PROJECT NO.:
BRIDGE NO.:

DESCRIPTION | DATE | REV.

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

Burns & McDonnell Engineering Co., Inc.
425 South Woods Mill Road
Chesterfield, Missouri 63017
314-682-1500
Certificate of Authority
No. : 000165
BMcD Project No. 170361

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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				
ROUTE D	70+27.87	47' LT	Type 2		15 Amps	15 Amps	100 Amps	100 Amps		100 Amps	CI. Ft.	
			Type		Amps	Amps	Amps	Amps		Amps	CI. Ft.	

CONTROLLER ASSEMBLY AND AUXILIARY EQUIPMENT

LOCATION			SYSTEM MASTER (CLOSED LOOP)		ACTUATED		ON-OFF* SWITCH TYPE		COORDINATION INTERFACE *						TIME * CLOCK	NEMA CABINET TYPE *			170 CABINET TYPE *		170 SOFTWARE *	
									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
ROUTE D	70+36.74	45' LT			1									1								

NEMA DETECTOR ASSIGNMENT

		CARD POSITION							
		1	2	3	4	5	6	7	8
CHANNEL	1	VIDEO/RADAR							
	2								

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

DETECTOR SCHEDULE

DETECTOR NUMBER	APPROACH	TYPE				
		ACCESSIBLE PEDESTRIAN PUSHBUTTON AND SIGNING	INDUCTION LOOP (2)			OPTIONAL DETECTION
			STANDARD	DELAY/ EXTEND *	CALL UNIT *	
20	WB ROUTE D					X
21	WB ROUTE D					X
30	NB PAGE IND BLVD					X
32	NB PAGE IND BLVD	1				
33	NB PAGE IND BLVD	1				
50	WB ROUTE D					X
60	EB ROUTE D					X
61	EB ROUTE D					X
62	EB ROUTE D	1				
63	EB ROUTE D	1				
TOTAL		4				1

*3 APPROACHES

* 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.

(3) SEE OPTIONAL DETECTION JSP FOR ADDITIONAL DETAILS. SIGNAL DETECTION SHALL BE PAID AS 1 PER INTERSECTION, INCLUDING ADVANCED DETECTION. THE CONTRACTOR SHALL PROVIDE AND INSTALL A VEHICLE DETECTION SYTEM FULLY COVERING ALL DETECTION ZONES AS SHOWN ON THE PLANS. THE METHOD CHOSEN SHALL COMPLY WITH MODOT'S STANDARDS AND SPECIFICATIONS. ALL EQUIPMENT USED IN THE SYSTEM SHALL BE IN ACCORDANCE WITH MODOT'S APPROVED PRODUCT LIST AND RECEIVE ST. LOUIS DISTRICT APPROVAL PRIOR TO INSTALLATION. THIS WILL BE A COMPLETE UNIT WIHT ALL COSTS INCLUDED.

R10-3 SIGNS ARE SHOWN FOR INFORMATION ONLY AND SHALL BE INCIDENTIAL TO THE ACCESSIBLE PEDESTRIAN SIGNAL BID ITEM.



R10-3eR



R10-3eL

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		
3	D3-1 ***	VAR. X 18		31.5	3
	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		
1	R10-27A	30 X 36	7.5	7.5	1
			SUBTOTAL	39.0	4
			TOTAL	39.0	4

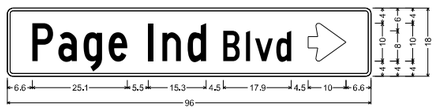
NEMA LOAD SWITCH ASSIGNMENTS

1	2	3	4	5	6	7	8
FUTURE	Ø2	Ø3	FUTURE	Ø5	Ø6	FUTURE	FUTURE
9	10	11	12	13	14	15	16
PED Ø3	PED Ø6	FUTURE	FUTURE	FUTURE	FUTURE	OLC	FUTURE



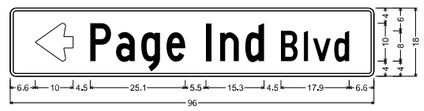
SP-1:
1.5" Radius, 0.8" Border, White on Green;
"Page", C: "Ave", C:
Table of letter and object lefts

P	a	g	e	A	v	e
5.4	12.9	20.3	27.7	38.6	44.7	50.6



SP-2:
1.5" Radius, 0.8" Border, White on Green;
"Page", C 70% spacing; "Ind", C 70% spacing; "Blvd", C 70% spacing;
Standard Arrow Custom 10.0" X 10.0" 0°;
Table of letter and object lefts

P	a	g	e	I	n	d	B	l	v	d	◇
6.6	13.4	20.1	26.8	37.2	40.9	47.6	57.0	63.0	65.4	71.0	79.4



SP-3:
1.5" Radius, 0.8" Border, White on Green;
Standard Arrow Custom 10.0" X 10.0" 180°; "Page", C 70% spacing;
"Ind", C 70% spacing; "Blvd", C 70% spacing;
Table of letter and object lefts

◇	P	a	g	e	I	n	d	B	l	v	d
6.6	21.1	27.9	34.6	41.3	51.7	55.4	62.1	71.5	77.5	79.9	85.5



R10-27a
(30"x36")

ROUTE D & PAGE INDUSTRIAL BLVD
INTERSECTION

ROUTE D SIGNAL
SHEET 22 OF 48

D-37C

MSD BASE MAPS: 15L, 15M, 16K, 16L MSD PREMIT NUMBER: 25MSD-00026

STATE OF MISSOURI
ALLISON M. BRUNER
NUMBER PE-2019005896
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED, AND DATED ELECTRONICALLY
Digitally signed by Allison Bruner
Date: 2025.12.19 09:38:48-06'00'

DATE PREPARED
12/17/2025

ROUTE	STATE
D	MO
DISTRICT	SHEET NO.
SL	140

COUNTY
ST. LOUIS

JOB NO.
JSL0186

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

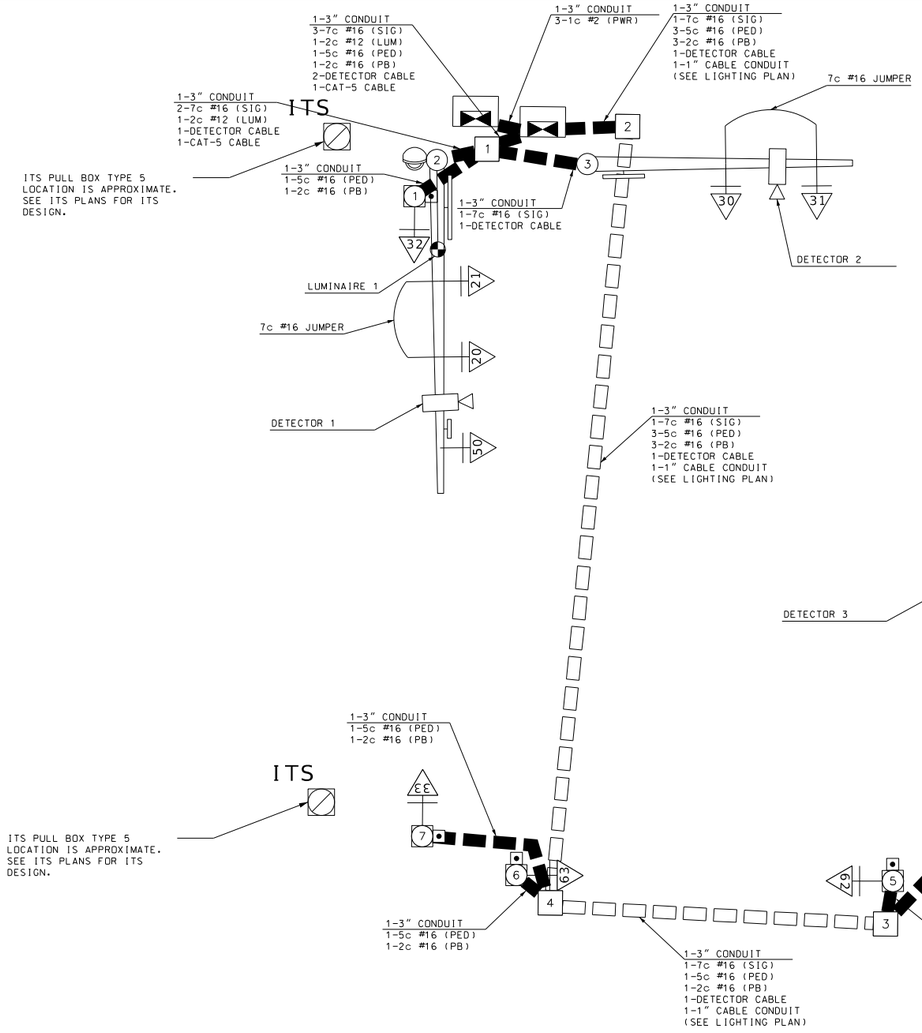
DESCRIPTION	DATE

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

Burns & McDonnell Engineering Co., Inc.
425 South Woods Mill Road
Chesterfield, Missouri 63017
314-682-1500
Certificate of Authority
No. : 000165
BMcD Project No. 170361

EFFECTIVE: 12-01-2017

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

ROUTE D & PAGE INDSUTRIAL BLVD

INTERSECTION

ROUTE D SIGNAL
SHEET 23 OF 48

D-37D

STATE OF MISSOURI
ALLISON M. BRUNER
NUMBER PE-2019005896
PROFESSIONAL ENGINEER

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Digitally signed by Allison Bruner
Date: 2025.12.19 09:38:48-06'00'

DATE PREPARED
12/17/2025

ROUTE	STATE
D	MO
DISTRICT	SHEET NO.
SL	141

COUNTY
ST. LOUIS

JOB NO.
JSL0186

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION	DATE

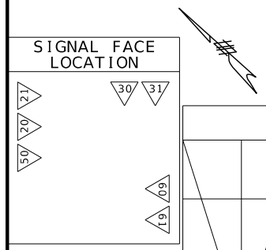
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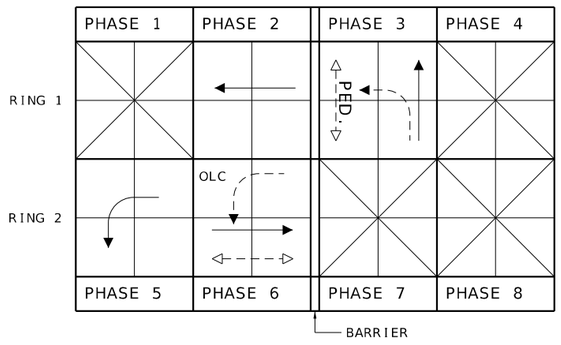
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EFFECTIVE: 12-01-2017

TRAFFIC PHASING AND COLOR SEQUENCE - ACTUATED CONTROLLERS



		PHASE 2	PHASE 3	PHASE 5	PHASE 6	PED Ø3	PED Ø6	OVERLAP C	
FACE NUMBERS		20 21	30 31	50	60 61	32 33	62 63	50	FACE NUMBERS
SIGNAL INDICATIONS	R	R	R	RL	R	DW	DW	RL	R
	Y	Y	Y	YL	Y	FDW	FDW	YL	Y
	FYL							FYL	FYL
	G	G	G	L	G	W	W		G
DETECTOR ASSIGNMENTS		20 21	30	50	60 61				DETECTOR ASSIGNMENTS
DETECTOR ASSIGNMENTS (PEDS. ONLY)						32 33	62 63		
OVERLAP PARENT PHASES						3	6	6	



RING STRUCTURE

IF CALLED, ALL NON-CONFLICTING PHASES SHALL COMBINE AND TIME CONCURRENTLY. TIME TO BE DETERMINED BY THE ENGINEER AT SIGNAL TURN ON AND SET IN THE CONTROLLER BY THE CONTRACTOR.

LEGEND

- ACTUATED VEHICULAR MOVEMENT
- PARTIALLY RESTRICTED ACTUATED VEHICULAR MOVEMENT
- NON-ACTUATED VEHICULAR MOVEMENT
- PARTIALLY RESTRICTED NON-ACTUATED VEHICULAR MOVEMENT
- ACTUATED PEDESTRIAN MOVEMENT
- NON-ACTUATED PEDESTRIAN MOVEMENT
- VEHICLE STOPPED
- FDW — FLASHING DON'T WALK
- W — WALK
- DW — DON'T WALK
- R/W — RIGHT OF WAY INTERVAL
- YRt — YELLOW RIGHT ARROW
- RT. — GREEN RIGHT ARROW
- LY -YL — YELLOW LEFT ARROW
- L — GREEN LEFT ARROW
- S — GREEN STRAIGHT AHEAD ARROW
- G — CIRCULAR GREEN
- Y — CIRCULAR YELLOW
- R — CIRCULAR RED
- RL — RED LEFT ARROW
- Ø — TRAFFIC PHASE
- AO — ALL OTHERS
- FR — FLASHING RED
- FY — FLASHING CIRCULAR YELLOW
- FYL — FLASHING YELLOW LEFT ARROW

FLASHING OPERATION	
ROUTE D	FR
PAGE INDUSTRIAL BLVD	FR

CONTROLLER TYPE	NEMA

TRAFFIC SIGNAL CONTROL OPERATION

INTERSECTION OF ROUTE D

WITH PAGE INDUSTRIAL BLVD

ROUTE D SIGNAL
SHEET 24 OF 48

D-38A

MSD BASE MAPS: 15L, 15M, 16K, 16L MSD PERMIT NUMBER: 25MSD-00026

STATE OF MISSOURI
ALLISON M. BRUNER
NUMBER PE-2019005896
PROFESSIONAL ENGINEER
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DATE PREPARED: 12/17/2025

ROUTE	STATE
D	MO
DISTRICT	SHEET NO.
SL	142

COUNTY: ST. LOUIS
JOB NO.: JSL0186
CONTRACT ID.:
PROJECT NO.:
BRIDGE NO.:

DESCRIPTION	DATE	REV.

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
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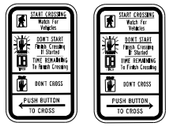
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TRAFFIC SIGNALS LEGEND

- CONTROLLER
- CONTROLLER (EXISTING)
- JCT JUNCTION BOX
- POWER SUPPLY
- WOOD POST
- SIGNAL HEAD (OPT LIM CONV)
- SIGNAL HEAD (OPT LIM)
- SIGNAL HEAD (PEDESTRIAN)
- SIGNAL HEAD (STANDARD)
- CCTV CAMERA
- VIDEO DETECTOR
- PUSH BUTTON DETECTOR
- PREFORMED PULL BOX TYPE 1
- PREFORMED PULL BOX TYPE 2
- CONCRETE PULL BOX TYPE 1
- CONCRETE PULL BOX TYPE 2
- ITS ITS PULL BOX TYPE 2
- ITS ITS PULL BOX TYPE 5
- 6 X 6 LOOP DETECTOR
- 6 X 15 LOOP DETECTOR
- 30 X 6 LOOP DETECTOR
- CONDUIT MEDIAN
- CONDUIT PUSHED
- CONDUIT BRIDGE
- CONDUIT EXISTING
- CONDUIT TRENCHED
- SPAN WIRE
- MAST ARM - TYPE A BASE
- MAST ARM - TYPE C BASE
- MAST ARM - TYPE F BASE

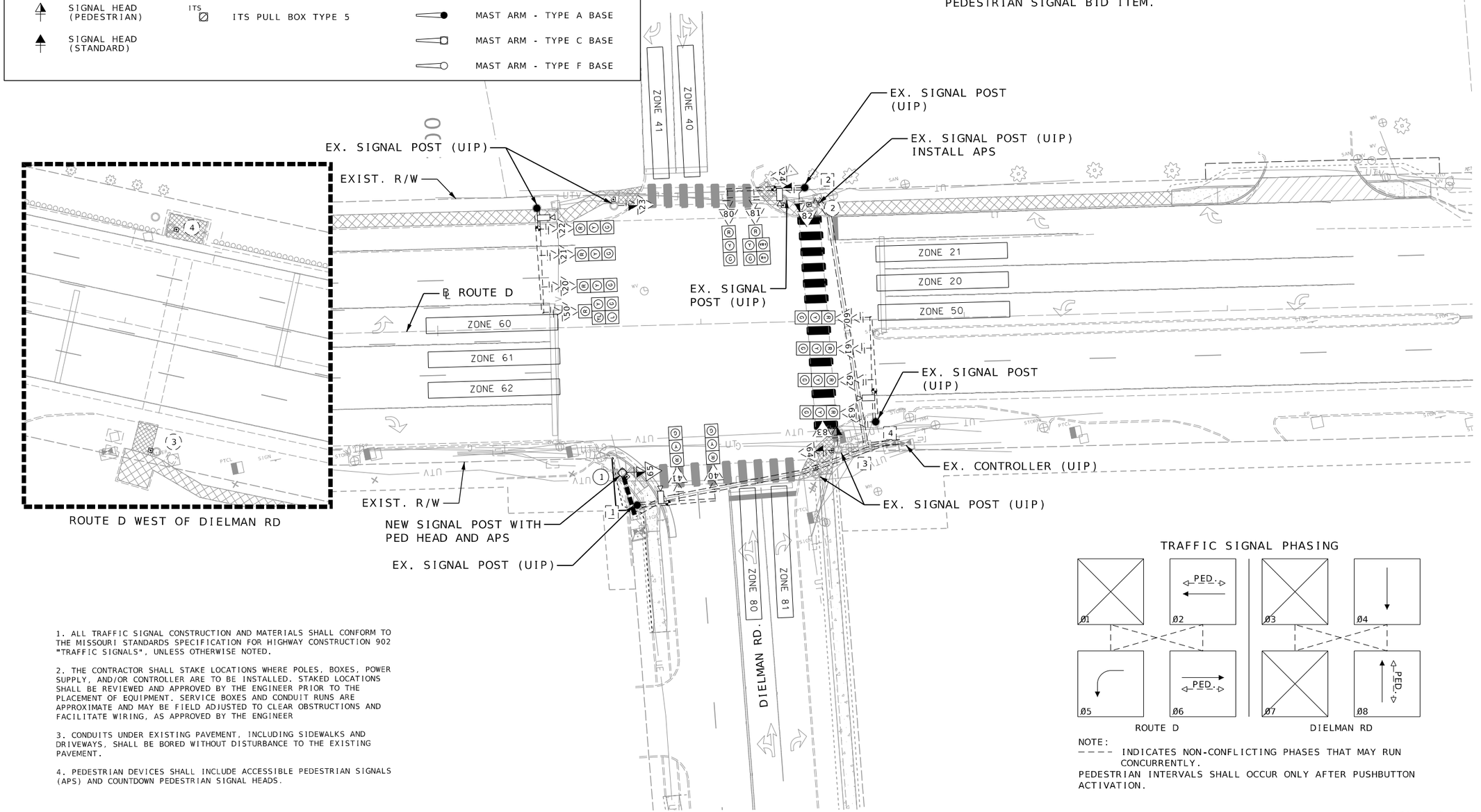
SIGNS



R10-3eL R10-3eR

R10-3e SIGNS ARE SHOWN FOR INFORMATION ONLY AND SHALL BE INCIDENTAL TO THE ACCESSIBLE PEDESTRIAN SIGNAL BID ITEM.

SCALE 0 20 40 60



ROUTE D WEST OF DIELMAN RD

1. ALL TRAFFIC SIGNAL CONSTRUCTION AND MATERIALS SHALL CONFORM TO THE MISSOURI STANDARDS SPECIFICATION FOR HIGHWAY CONSTRUCTION 902 "TRAFFIC SIGNALS", UNLESS OTHERWISE NOTED.

2. THE CONTRACTOR SHALL STAKE LOCATIONS WHERE POLES, BOXES, POWER SUPPLY, AND/OR CONTROLLER ARE TO BE INSTALLED. STAKED LOCATIONS SHALL BE REVIEWED AND APPROVED BY THE ENGINEER PRIOR TO THE PLACEMENT OF EQUIPMENT. SERVICE BOXES AND CONDUIT RUNS ARE APPROXIMATE AND MAY BE FIELD ADJUSTED TO CLEAR OBSTRUCTIONS AND FACILITATE WIRING, AS APPROVED BY THE ENGINEER

3. CONDUITS UNDER EXISTING PAVEMENT, INCLUDING SIDEWALKS AND DRIVEWAYS, SHALL BE BORED WITHOUT DISTURBANCE TO THE EXISTING PAVEMENT.

4. PEDESTRIAN DEVICES SHALL INCLUDE ACCESSIBLE PEDESTRIAN SIGNALS (APS) AND COUNTDOWN PEDESTRIAN SIGNAL HEADS.

TRAFFIC SIGNAL PHASING

NOTE:
---- INDICATES NON-CONFLICTING PHASES THAT MAY RUN CONCURRENTLY.
PEDESTRIAN INTERVALS SHALL OCCUR ONLY AFTER PUSHBUTTON ACTIVATION.

ROUTE D SIGNAL
SHEET 25 OF 48

ALLISON M. BRUNER NUMBER PE-2019005896 PROFESSIONAL ENGINEER STATE OF MISSOURI
THIS SHEET HAS BEEN SIGNED, SEALED, AND DATED ELECTRONICALLY
Digitally signed by Allison Bruner
Date: 2025.12.19 09:38:48-06'00'

DATE PREPARED 12/17/2025

ROUTE	STATE
D	MO
DISTRICT	SHEET NO.
SL	143

COUNTY ST. LOUIS
JOB NO. JSL0186
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)

Burns & McDonnell Engineering Co., Inc.
425 South Woods Mill Road
Chesterfield, Missouri 63017
314-682-1500
Certificate of Authority
No. : 000165
BMcD Project No. 170361

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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 A | DRAIN TYPE* I B | DRAIN TYPE* I C | DRAIN TYPE* II A | DRAIN TYPE* II B | DRAIN TYPE* II C | TOP MOUNT POST 8 FT. | TOP MOUNT POST 15 FT. | POST TYPE C & CL ARM LENGTH 35' | 40' | 45' | 50' | SIGNAL SPACING B | C | D | D' | SIGN SPACING B | C | D | D' | POST TYPE B & BL ARM LENGTH E | K | E | K | E | K | LEFT ARM E SIGNAL SPACING F | G | H | H' | SIGN SPACING F | G | H | H' | RIGHT ARM K SIGNAL SPACING L | M | N | N' | 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

NOTES:
1) CABLE PAY TOTALS INCLUDE 5% ADDED FOR SNAKING.

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	(1)	16′			17′												
SUBTOTALS					17′												
TOTALS					17′												

CABLE

FROM	TO	CENTER TO CENTER DISTANCE	POWER		CONTROL				CLOSED LOOP INTERCONNECT	LUMINAIRE		DETECTOR	FIBER		REMARKS
			1c #8		2c #16	5c #16	7c #16	3c #16	3 PAIR #16	CONTROL 2c #12	POLE & BRACKET 1c #10		SINGLE-MODE	MULTI-MODE	
☒	65	122′				146′									PED. HEAD 65
☒	PB64	122′			145′										PUSH BUTTON 64
☒	PB83	113′			142′										PUSH BUTTON 83
SUBTOTALS					287′	146′									
TOTALS					310′	160′									

INTERSECTION ROUTE D & DIELMAN RD ROUTE D SIGNAL SHEET 27 OF 42 D-37B

MSD BASE MAPS: 15L, 15M, 16K, 16L MSD PREMIT NUMBER: 25MSD-00026

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STATE OF MISSOURI
ALLISON M. BRUNER
NUMBER PE-2019005896
PROFESSIONAL ENGINEER
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D	MO
DISTRICT	SHEET NO.
SL	145

COUNTY ST. LOUIS
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CONTRACT ID.
PROJECT NO.
BRIDGE NO.

DESCRIPTION | DATE | REV.

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
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BMcD Project No. 170361

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					
							MAIN BREAKER					
APPROACH	STATION	OFFSET	DRAWING 902.15	DRAWING	AUXILIARY BREAKER	CONT & SIGNAL LAMPS	SIGNALS	LIGHTING	120 VOLT CONTROL CABINET	MAIN BREAKER	CONTRACT FURNISH	UTILITY COMPANY
ROUTE D	EXIST.	EXIST.	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
ROUTE D	EXIST.	EXIST.																				

NEMA DETECTOR ASSIGNMENT

CARD POSITION

CHANNEL	1	2	3	4	5	6	7	8
1								
2								

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

DETECTOR SCHEDULE

DETECTOR NUMBER	APPROACH	TYPE				
		ACCESSIBLE PEDESTRIAN PUSHBUTTON AND SIGNING	INDUCTION LOOP (2)			OPTIONAL DETECTION
			STANDARD	DELAY/ EXTEND *	CALL UNIT *	
20	WB ROUTE D					X
21	WB ROUTE D					X
40	SB DIELMAN RD					X
41	SB DIELMAN RD					X
50	WB ROUTE D					X
60	EB ROUTE D					X
61	EB ROUTE D					X
62	EB ROUTE D					X
64	EB ROUTE D	1				
80	NB DIELMAN RD					X
81	NB DIELMAN RD					X
83	NB DIELMAN RD	1				
3	ROUTE D HAWK	1				
4	ROUTE D HAWK	1				
TOTAL		4				1

*4 APPROACHES

* 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.

(3) SEE OPTIONAL DETECTION JSP FOR ADDITIONAL DETAILS. SIGNAL DETECTION SHALL BE PAID AS 1 PER INTERSECTION, INCLUDING ADVANCED DETECTION. THE CONTRACTOR SHALL PROVIDE AND INSTALL A VEHICLE DETECTION SYTEM FULLY COVERING ALL DETECTION ZONES AS SHOWN ON THE PLANS. THE METHOD CHOSEN SHALL COMPLY WITH MODOT'S STANDARDS AND SPECIFICATIONS. ALL EQUIPMENT USED IN THE SYSTEM SHALL BE IN ACCORDANCE WITH MODOT'S APPROVED PRODUCT LIST AND RECEIVE ST. LOUIS DISTRICT APPROVAL PRIOR TO INSTALLATION. THIS WILL BE A COMPLETE UNIT WIHT ALL COSTS INCLUDED.

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		
			SUBTOTAL		
			TOTAL		

NEMA LOAD SWITCH ASSIGNMENTS

1	2	3	4	5	6	7	8
FUTURE	Ø2	FUTURE	Ø4	Ø5	Ø6	FUTURE	Ø8
9	10	11	12	13	14	15	16
PED Ø2	FUTURE	PED Ø6	PED Ø8	FUTURE	FUTURE	OLC	FUTURE

ROUTE D & DIELMAN RD
INTERSECTION

ROUTE D SIGNAL
SHEET 28 OF 48

D-37C

MSD BASE MAPS: 15L, 15M, 16K, 16L MSD PREMIT NUMBER: 25MSD-00026

STATE OF MISSOURI
ALLISON M. BRUNER
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D	MO
DISTRICT	SHEET NO.
SL	146

COUNTY
ST. LOUIS

JOB NO.
JSL0186

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

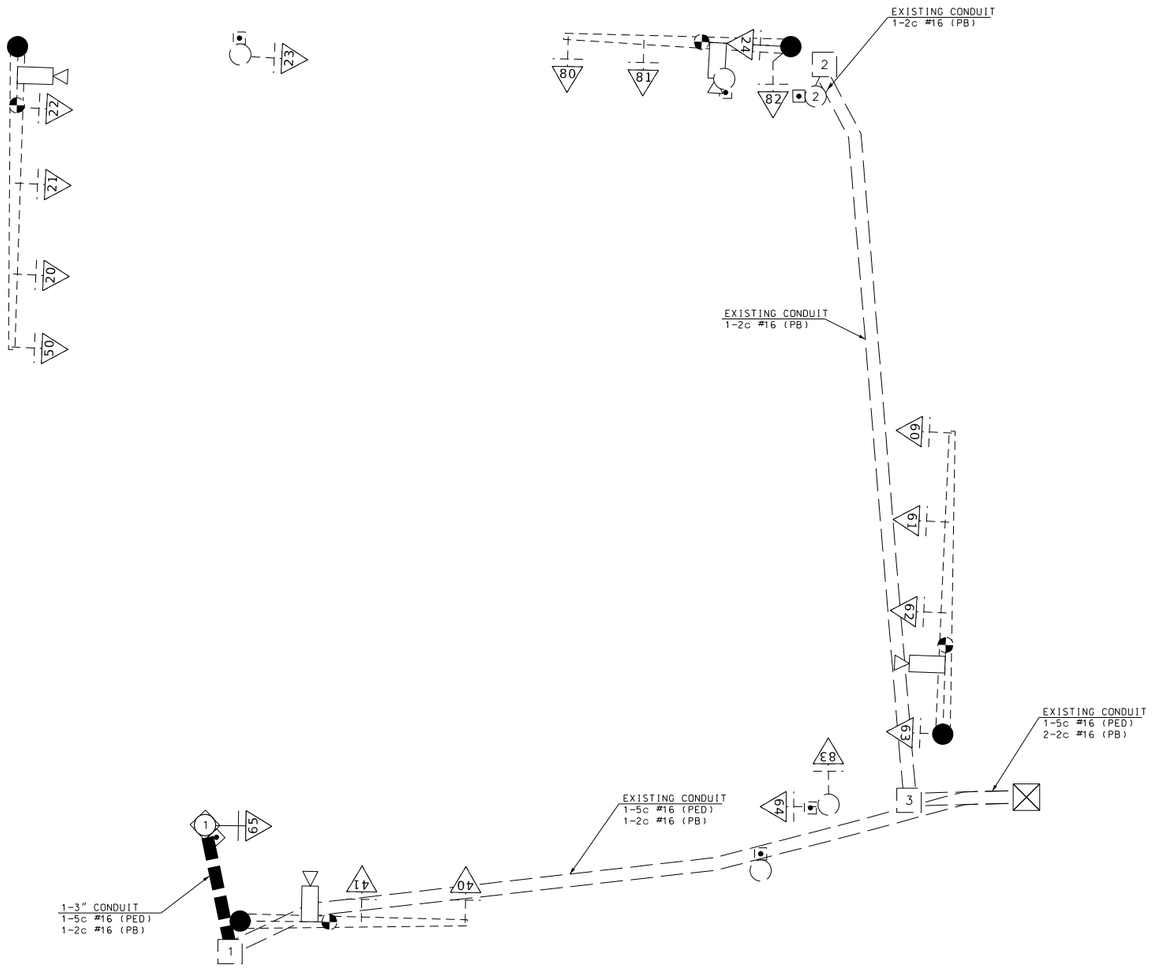
DESCRIPTION	DATE

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

Burns & McDonnell Engineering Co., Inc.
425 South Woods Mill Road
Chesterfield, Missouri 63017
314-682-1500
Certificate of Authority
No. : 000165
BMcD Project No. 170361

EFFECTIVE: 12-01-2017

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

ROUTE D & DIELMAN RD

INTERSECTION ROUTE D SIGNAL
SHEET 29 OF 48 D-37D

STATE OF MISSOURI
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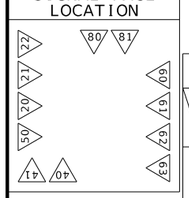
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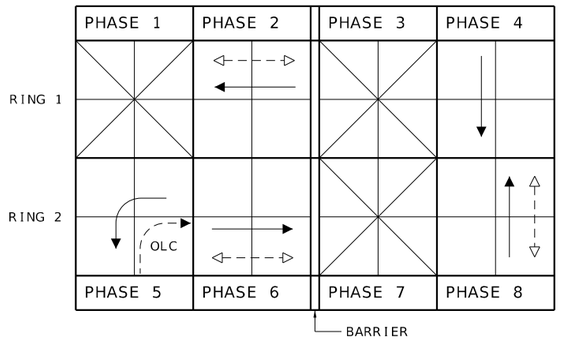
EFFECTIVE: 12-01-2017

TRAFFIC PHASING AND COLOR SEQUENCE - ACTUATED CONTROLLERS

SIGNAL FACE LOCATION



	PHASE 2	PHASE 4	PHASE 5	PHASE 6	PHASE 8	PED Ø2	PED Ø6	PED Ø8	OVERLAP C
FACE NUMBERS	20 21 50 22	40 41	50	60 62 61 63	80 81	23 24	64 65	82 83	81
SIGNAL INDICATIONS R	R R	R		R R	R	DW	DW	DW	
SIGNAL INDICATIONS Y	Y Y	Y	YL	Y Y	Y	FDW	FDW	FDW	YRt
SIGNAL INDICATIONS FYL									
SIGNAL INDICATIONS G	G G	G	L	G G	G	W	W	W	RT
DETECTOR ASSIGNMENTS	50 21 20 22	40 41	50	60 62 61 63	80 81				
DETECTOR ASSIGNMENTS (PEDS. ONLY)						23 24	64 65	82 83	
OVERLAP PARENT PHASES						2	6	8	5



RING STRUCTURE

IF CALLED, ALL NON-CONFLICTING PHASES SHALL COMBINE AND TIME CONCURRENTLY. TIME TO BE DETERMINED BY THE ENGINEER AT SIGNAL TURN ON AND SET IN THE CONTROLLER BY THE CONTRACTOR.

LEGEND

- ACTUATED VEHICULAR MOVEMENT
- PARTIALLY RESTRICTED ACTUATED VEHICULAR MOVEMENT
- NON-ACTUATED VEHICULAR MOVEMENT
- PARTIALLY RESTRICTED NON-ACTUATED VEHICULAR MOVEMENT
- ACTUATED PEDESTRIAN MOVEMENT
- NON-ACTUATED PEDESTRIAN MOVEMENT
- VEHICLE STOPPED

FDW — FLASHING DON'T WALK
W — WALK
DW — DON'T WALK
R/W — RIGHT OF WAY INTERVAL
YRt — YELLOW RIGHT ARROW
RT. — GREEN RIGHT ARROW
LY -YL — YELLOW LEFT ARROW
L — GREEN LEFT ARROW
S — GREEN STRAIGHT AHEAD ARROW
G — CIRCULAR GREEN
Y — CIRCULAR YELLOW
R — CIRCULAR RED
RL — RED LEFT ARROW
Ø — TRAFFIC PHASE
AO — ALL OTHERS
FR — FLASHING RED
FY — FLASHING CIRCULAR YELLOW
FYL — FLASHING YELLOW LEFT ARROW

FLASHING OPERATION	
ROUTE D	FR
DIELMAN RD	FR
CONTROLLER TYPE	NEMA

TRAFFIC SIGNAL CONTROL OPERATION

INTERSECTION OF ROUTE D

WITH DIELMAN RD

ROUTE D SIGNAL
SHEET 30 OF 48

D-38A

STATE OF MISSOURI
ALLISON M. BRUNER
NUMBER PE-2019005896
PROFESSIONAL ENGINEER

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ROUTE	STATE
D	MO
DISTRICT	SHEET NO.
SL	148

COUNTY: ST. LOUIS
JOB NO.: JSL0186
CONTRACT ID.:
PROJECT NO.:
BRIDGE NO.:

DESCRIPTION	DATE	REV.

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

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BMcD Project No. 170361

MSD BASE MAPS: 15L, 15M, 16K, 16L MSD PERMIT NUMBER: 25MSD-00026

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SCALE

0 20 40 60

SIGNS

R10-3eL R10-3eR

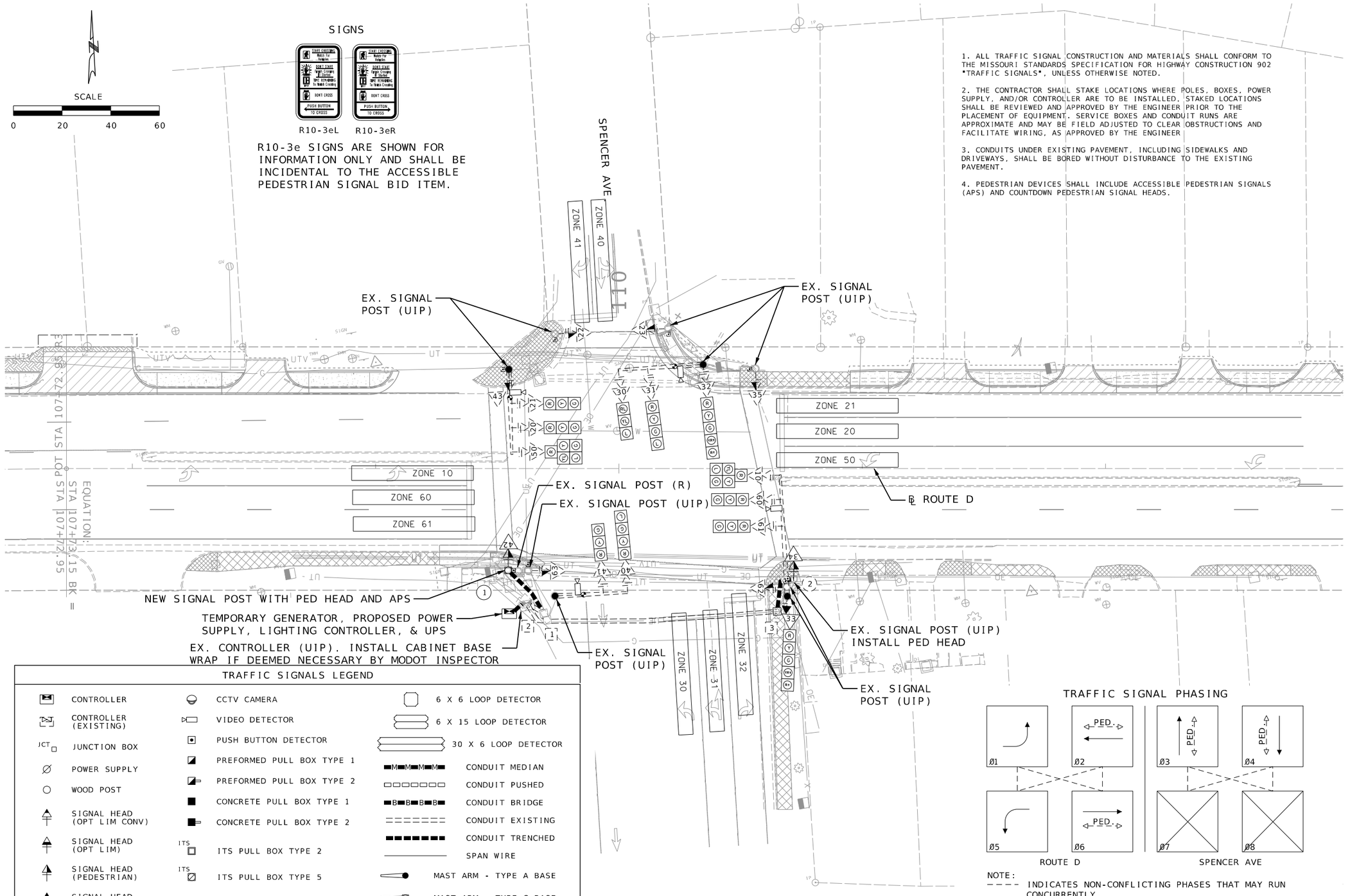
R10-3e SIGNS ARE SHOWN FOR INFORMATION ONLY AND SHALL BE INCIDENTAL TO THE ACCESSIBLE PEDESTRIAN SIGNAL BID ITEM.

1. ALL TRAFFIC SIGNAL CONSTRUCTION AND MATERIALS SHALL CONFORM TO THE MISSOURI STANDARDS SPECIFICATION FOR HIGHWAY CONSTRUCTION 902 "TRAFFIC SIGNALS", UNLESS OTHERWISE NOTED.

2. THE CONTRACTOR SHALL STAKE LOCATIONS WHERE POLES, BOXES, POWER SUPPLY, AND/OR CONTROLLER ARE TO BE INSTALLED. STAKED LOCATIONS SHALL BE REVIEWED AND APPROVED BY THE ENGINEER PRIOR TO THE PLACEMENT OF EQUIPMENT. SERVICE BOXES AND CONDUIT RUNS ARE APPROXIMATE AND MAY BE FIELD ADJUSTED TO CLEAR OBSTRUCTIONS AND FACILITATE WIRING, AS APPROVED BY THE ENGINEER

3. CONDUITS UNDER EXISTING PAVEMENT, INCLUDING SIDEWALKS AND DRIVEWAYS, SHALL BE BORED WITHOUT DISTURBANCE TO THE EXISTING PAVEMENT.

4. PEDESTRIAN DEVICES SHALL INCLUDE ACCESSIBLE PEDESTRIAN SIGNALS (APS) AND COUNTDOWN PEDESTRIAN SIGNAL HEADS.



TRAFFIC SIGNALS LEGEND

CONTROLLER	CCTV CAMERA	6 X 6 LOOP DETECTOR	
CONTROLLER (EXISTING)	VIDEO DETECTOR	6 X 15 LOOP DETECTOR	
JUNCTION BOX	PUSH BUTTON DETECTOR	30 X 6 LOOP DETECTOR	
POWER SUPPLY	PREFORMED PULL BOX TYPE 1	CONDUIT MEDIAN	
WOOD POST	PREFORMED PULL BOX TYPE 2	CONDUIT PUSHED	
SIGNAL HEAD (OPT LIM CONV)	CONCRETE PULL BOX TYPE 1	CONDUIT BRIDGE	
SIGNAL HEAD (OPT LIM)	CONCRETE PULL BOX TYPE 2	CONDUIT EXISTING	
SIGNAL HEAD (PEDESTRIAN)	ITS PULL BOX TYPE 2	CONDUIT TRENCHED	
SIGNAL HEAD (STANDARD)	ITS PULL BOX TYPE 5	SPAN WIRE	
		MAST ARM - TYPE A BASE	
		MAST ARM - TYPE C BASE	
		MAST ARM - TYPE F BASE	

TRAFFIC SIGNAL PHASING

NOTE:
---- INDICATES NON-CONFLICTING PHASES THAT MAY RUN CONCURRENTLY.
PEDESTRIAN INTERVALS SHALL OCCUR ONLY AFTER PUSHBUTTON ACTIVATION.

ROUTE D SIGNAL
SHEET 31 OF 48

ALLISON M. BRUNER NUMBER PE-2019005896 PROFESSIONAL ENGINEER STATE OF MISSOURI

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EFFECTIVE: 07/01/2018

| POST NUMBER | PULL BOX NUMBER | LOCATION: APPROACH | LOCATION: STATION | LOCATION: OFFSET | BASE: A (9, 9.5, 10, 10.5, 11, 12) | BASE: F (9, 9.5, 10, 10.5, 11, 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 | II B | II C | POST: TOP MOUNT POST 8 FT. | TOP MOUNT POST 15 FT. | TYPE C & CL: ARM LENGTH 35' | 40' | 45' | 50' | SIGNAL SPACING B | C | D | D' | SIGN SPACING B | C | D | D' | TYPE B & BL: ARM LENGTH E | K | E | K | E | K | LEFT ARM E: SIGNAL SPACING F | G | H | H' | SIGN SPACING F | G | H | H' | RIGHT ARM K: SIGNAL SPACING L | M | N | N' | 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

NOTES:
1) CABLE PAY TOTALS INCLUDE 5% ADDED FOR SNAKING.

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"		
∅	☒	8′			12′												
2	①	21′			22′												
3	②	7′			18′												
SUBTOTALS					52′												
TOTALS					52′												

CABLE

FROM	TO	CENTER TO CENTER DISTANCE	POWER		CONTROL				CLOSED LOOP INTERCONNECT	LUMINAIRE		DETECTOR		FIBER		REMARKS
			1c #2		2c #16	5c #16	7c #16	3c #16	3 PAIR #16	CONTROL 2c #12	POLE & BRACKET 1c #10			SINGLE-MODE	MULTI-MODE	
∅	☒	8′	153′													3 RUNS OF 1c #2
☒	42	26′				50′										PED. HEAD 42
☒	PB43	26′			49′											PUSH BUTTON 43
☒	34	120′				150′										PED. HEAD 34
SUBTOTALS			153′		49′	200′										
TOTALS			170′		60′	210′										

INTERSECTION _____ ROUTE D & SPENCER AVE ROUTE D SIGNAL SHEET 33 OF 42 D-37B

MSD BASE MAPS: 15L, 15M, 16K, 16L MSD PREMIT NUMBER: 25MSD-00026

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

Burns & McDonnell Engineering Co., Inc.
425 South Woods Mill Road
Chesterfield, Missouri 63017
314-682-1500
Certificate of Authority
No. : 000165
BMcD Project No. 170361

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				
ROUTE D	109+54.9	59' RT	Type 2		15 Amps	15 Amps	100 Amps	100 Amps		100 Amps	CI. Ft.	
			Type		Amps	Amps	Amps	Amps		Amps	CI. Ft.	

CONTROLLER ASSEMBLY AND AUXILIARY EQUIPMENT

LOCATION			SYSTEM MASTER (CLOSED LOOP)		ACTUATED		ON-OFF* SWITCH TYPE		COORDINATION INTERFACE *						TIME * CLOCK	NEMA CABINET TYPE *			170 CABINET TYPE *		170 SOFTWARE *	
									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
ROUTE D	EXIST.	EXIST.																				

NEMA DETECTOR ASSIGNMENT

CARD POSITION

CHANNEL	1	2	3	4	5	6	7	8
1								
2								

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

DETECTOR SCHEDULE

DETECTOR NUMBER	APPROACH	TYPE				
		ACCESSIBLE PEDESTRIAN PUSHBUTTON AND SIGNING	INDUCTION LOOP (2)			OPTIONAL DETECTION
			STANDARD	DELAY/ EXTEND *	CALL UNIT *	
10	EB ROUTE D					X
20	WB ROUTE D					X
21	WB ROUTE D					X
30	NB SPENCER AVE					X
31	NB SPENCER AVE					X
32	NB SPENCER AVE					X
40	SB SPENCER AVE					X
41	SB SPENCER AVE					X
43	SB SPENCER AVE	1				
50	WB ROUTE D					X
60	EB ROUTE D					X
61	EB ROUTE D					X
TOTAL		1				1

*4 APPROACHES

* 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.

(3) SEE OPTIONAL DETECTION JSP FOR ADDITIONAL DETAILS. SIGNAL DETECTION SHALL BE PAID AS 1 PER INTERSECTION, INCLUDING ADVANCED DETECTION. THE CONTRACTOR SHALL PROVIDE AND INSTALL A VEHICLE DETECTION SYTEM FULLY COVERING ALL DETECTION ZONES AS SHOWN ON THE PLANS. THE METHOD CHOSEN SHALL COMPLY WITH MODOT'S STANDARDS AND SPECIFICATIONS. ALL EQUIPMENT USED IN THE SYSTEM SHALL BE IN ACCORDANCE WITH MODOT'S APPROVED PRODUCT LIST AND RECEIVE ST. LOUIS DISTRICT APPROVAL PRIOR TO INSTALLATION. THIS WILL BE A COMPLETE UNIT WIHT ALL COSTS INCLUDED.

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		
			SUBTOTAL		
			TOTAL		

NEMA LOAD SWITCH ASSIGNMENTS

1	2	3	4	5	6	7	8
Ø1	Ø2	Ø3	Ø4	Ø5	Ø6	FUTURE	FUTURE
9	10	11	12	13	14	15	16
PED Ø2	PED Ø3	PED Ø4	PED Ø6	FUTURE	FUTURE	OLC	FUTURE

ROUTE D & SPENCER AVE
INTERSECTION

ROUTE D SIGNAL
SHEET 34 OF 48

D-37C

MSD BASE MAPS: 15L, 15M, 16K, 16L MSD PREMIT NUMBER: 25MSD-00026

STATE OF MISSOURI
ALLISON M. BRUNER
NUMBER PE-2019005896
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED, AND DATED ELECTRONICALLY
Digitally signed by Allison Bruner
Date: 2025.12.19 09:38:49-06'00'

DATE PREPARED 12/17/2025

ROUTE	STATE
D	MO
DISTRICT	SHEET NO.
SL	152

COUNTY ST. LOUIS
JOB NO. JSL0186
CONTRACT ID.
PROJECT NO.
BRIDGE NO.

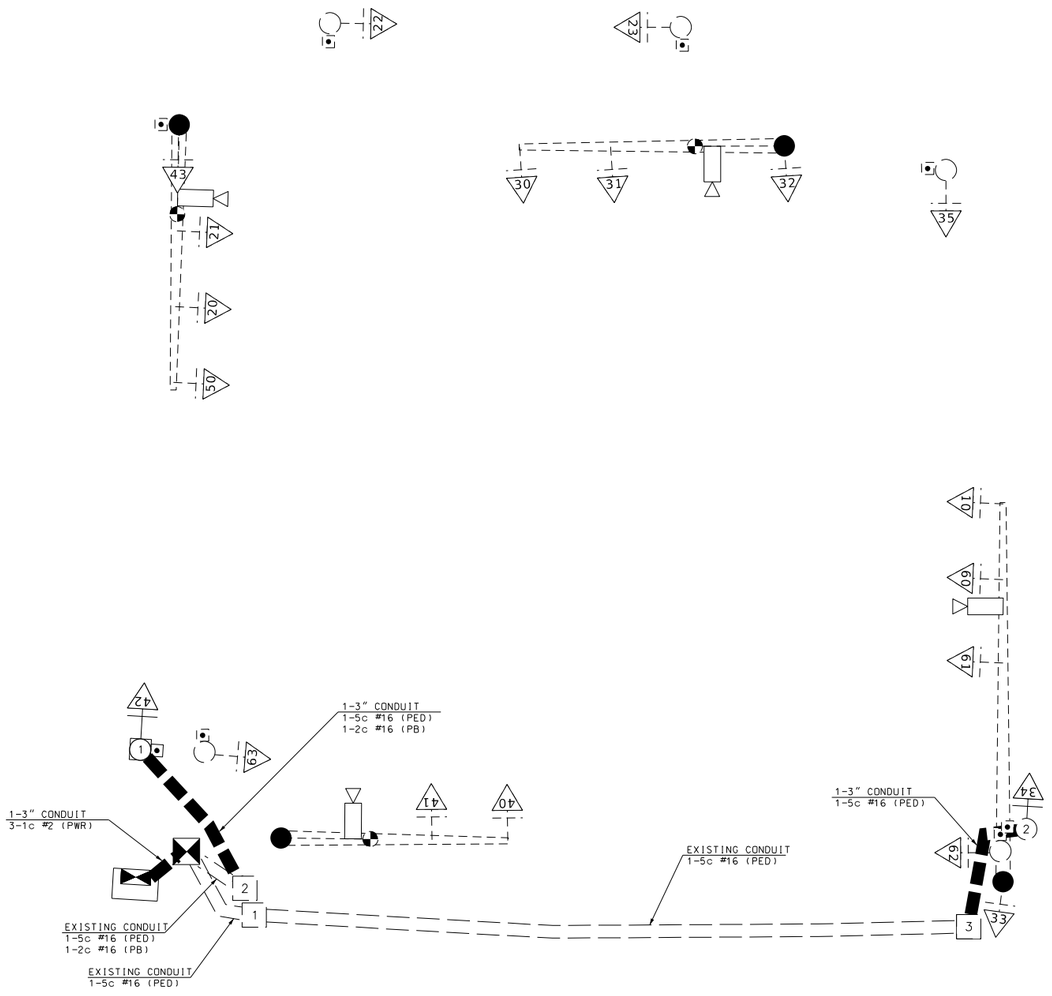
DESCRIPTION | DATE

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

Burns & McDonnell Engineering Co., Inc.
425 South Woods Mill Road
Chesterfield, Missouri 63017
314-682-1500
Certificate of Authority No. : 000165
BMcD Project No. 170361

EFFECTIVE: 12-01-2017

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

ROUTE D & SPENCER AVE

INTERSECTION

ROUTE D SIGNAL
SHEET 35 OF 48

D-37D

STATE OF MISSOURI
ALLISON M. BRUNER
NUMBER PE-2019005896
PROFESSIONAL ENGINEER

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DATE PREPARED
12/17/2025

ROUTE	STATE
D	MO
DISTRICT	SHEET NO.
SL	153

COUNTY
ST. LOUIS

JOB NO.
JSL0186

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION	DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

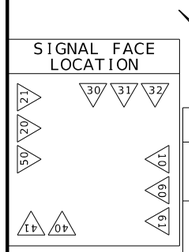
105 WEST CAPITOL
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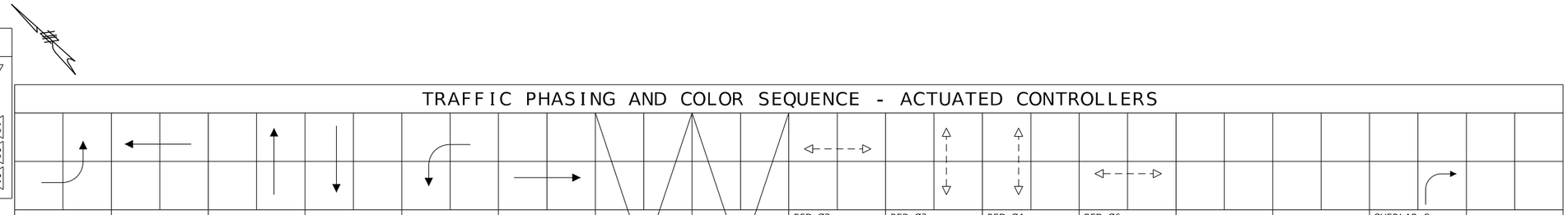
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EFFECTIVE: 12-01-2017

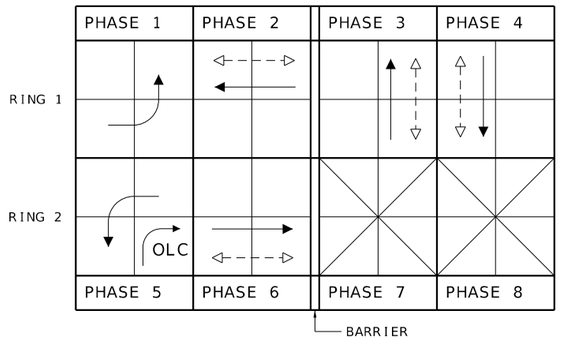
SIGNAL FACE LOCATION



TRAFFIC PHASING AND COLOR SEQUENCE - ACTUATED CONTROLLERS



	PHASE 1	PHASE 2	PHASE 3	PHASE 4	PHASE 5	PHASE 6	PED Ø2	PED Ø3	PED Ø4	PED Ø6	OVERLAP C
FACE NUMBERS	10	20 50	30 31 32	40 41	50	60 10	22	34	42	62	32
		21				61	23	35	43	63	
SIGNAL INDICATIONS R		R R	RL R R	R R		R R	DW	DW	DW	DW	
SIGNAL INDICATIONS Y	YL	Y Y	YL Y Y	Y Y	YL	Y Y	FDW	FDW	FDW	FDW	YRt
SIGNAL INDICATIONS FYL											
SIGNAL INDICATIONS G	L	G G	L G G	G G	L	G G	W	W	W	W	Rt
			L	L							
DETECTOR ASSIGNMENTS	10	20 21 50	30 31 32	40 41	50	60 61 10					
DETECTOR ASSIGNMENTS (PEDS. ONLY)							22 23	34 35	42 43	62 63	
OVERLAP PARENT PHASES							2	3	4	6	5



RING STRUCTURE

IF CALLED, ALL NON-CONFLICTING PHASES SHALL COMBINE AND TIME CONCURRENTLY. TIME TO BE DETERMINED BY THE ENGINEER AT SIGNAL TURN ON AND SET IN THE CONTROLLER BY THE CONTRACTOR.

LEGEND

- ACTUATED VEHICULAR MOVEMENT
- PARTIALLY RESTRICTED ACTUATED VEHICULAR MOVEMENT
- NON-ACTUATED VEHICULAR MOVEMENT
- PARTIALLY RESTRICTED NON-ACTUATED VEHICULAR MOVEMENT
- ACTUATED PEDESTRIAN MOVEMENT
- NON-ACTUATED PEDESTRIAN MOVEMENT
- VEHICLE STOPPED
- FDW — FLASHING DON'T WALK
- W — WALK
- DW — DON'T WALK
- R/W — RIGHT OF WAY INTERVAL
- YRt — YELLOW RIGHT ARROW
- RT. — GREEN RIGHT ARROW
- LY -YL — YELLOW LEFT ARROW
- L — GREEN LEFT ARROW
- S — GREEN STRAIGHT AHEAD ARROW
- G — CIRCULAR GREEN
- Y — CIRCULAR YELLOW
- R — CIRCULAR RED
- RL — RED LEFT ARROW
- Ø — TRAFFIC PHASE
- AO — ALL OTHERS
- FR — FLASHING RED
- FY — FLASHING CIRCULAR YELLOW
- FYL — FLASHING YELLOW LEFT ARROW

FLASHING OPERATION	
ROUTE D	FR
SPENCER AVE	FR

CONTROLLER TYPE	NEMA

TRAFFIC SIGNAL CONTROL OPERATION

INTERSECTION OF ROUTE D

WITH SPENCER AVE

ROUTE D SIGNAL
SHEET 36 OF 48

D-38A

ALLISON M. BRUNER NUMBER PE-2019005896
STATE OF MISSOURI PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED, AND DATED ELECTRONICALLY

Digitally signed by Allison Bruner
Date: 2025.12.19 09:38:49-06'00'

DATE PREPARED: 12/17/2025

ROUTE	STATE
D	MO
DISTRICT	SHEET NO.
SL	154

COUNTY: ST. LOUIS
JOB NO.: JSL0186
CONTRACT ID.:
PROJECT NO.:
BRIDGE NO.:

REV.	DESCRIPTION	DATE

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

Burns & McDonnell Engineering Co., Inc.
425 South Woods Mill Road
Chesterfield, Missouri 63017
314-682-1500
Certificate of Authority
No. : 000165
BMcD Project No. 170361

MSD BASE MAPS: 15L, 15M, 16K, 16L MSD PERMIT NUMBER: 25MSD-00026

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SCALE

0 20 40 60

SIGNS

R10-3eL R10-3eR

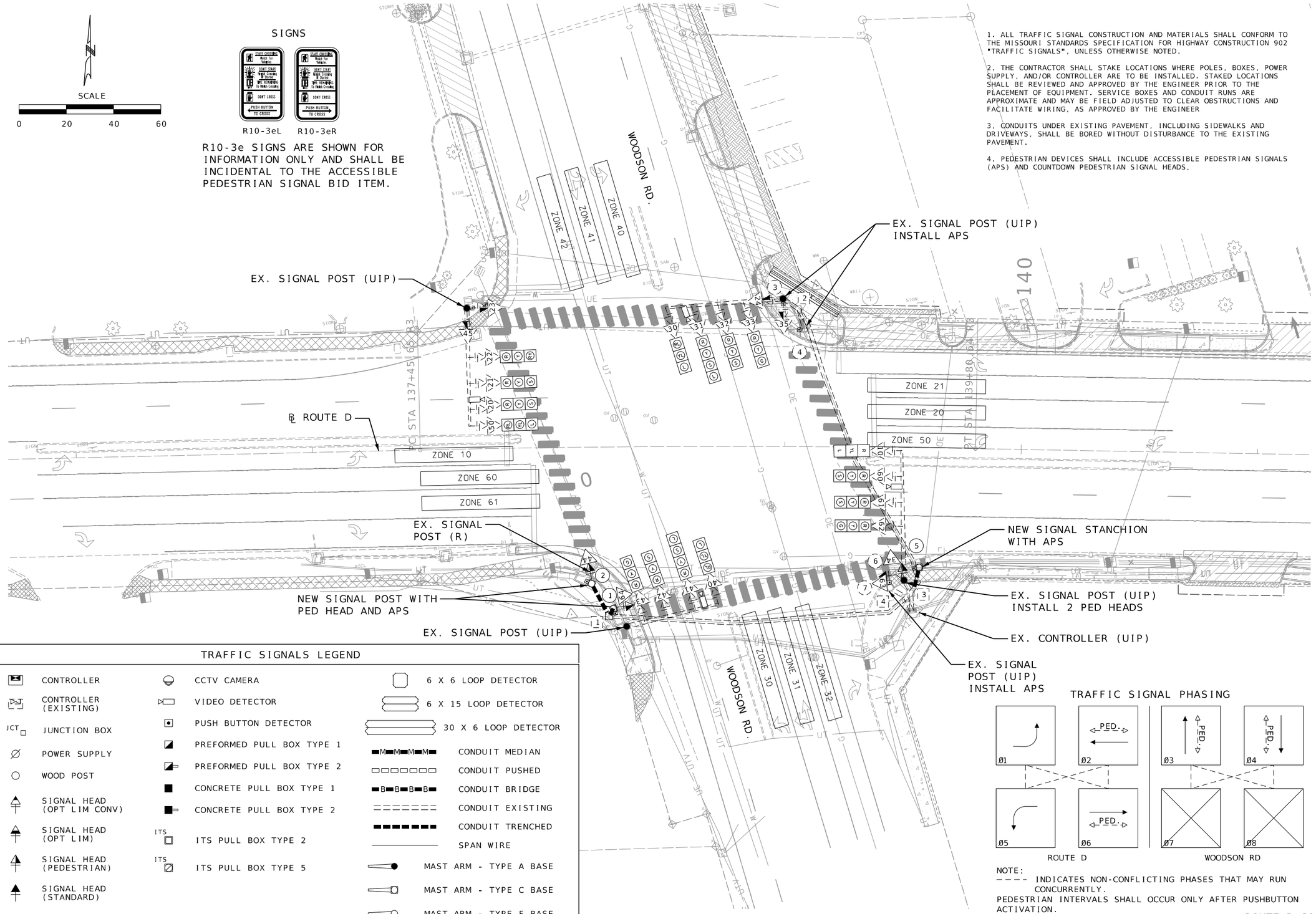
R10-3e SIGNS ARE SHOWN FOR INFORMATION ONLY AND SHALL BE INCIDENTAL TO THE ACCESSIBLE PEDESTRIAN SIGNAL BID ITEM.

1. ALL TRAFFIC SIGNAL CONSTRUCTION AND MATERIALS SHALL CONFORM TO THE MISSOURI STANDARDS SPECIFICATION FOR HIGHWAY CONSTRUCTION 902 "TRAFFIC SIGNALS", UNLESS OTHERWISE NOTED.

2. THE CONTRACTOR SHALL STAKE LOCATIONS WHERE POLES, BOXES, POWER SUPPLY, AND/OR CONTROLLER ARE TO BE INSTALLED. STAKED LOCATIONS SHALL BE REVIEWED AND APPROVED BY THE ENGINEER PRIOR TO THE PLACEMENT OF EQUIPMENT. SERVICE BOXES AND CONDUIT RUNS ARE APPROXIMATE AND MAY BE FIELD ADJUSTED TO CLEAR OBSTRUCTIONS AND FACILITATE WIRING, AS APPROVED BY THE ENGINEER

3. CONDUITS UNDER EXISTING PAVEMENT, INCLUDING SIDEWALKS AND DRIVEWAYS, SHALL BE BORED WITHOUT DISTURBANCE TO THE EXISTING PAVEMENT.

4. PEDESTRIAN DEVICES SHALL INCLUDE ACCESSIBLE PEDESTRIAN SIGNALS (APS) AND COUNTDOWN PEDESTRIAN SIGNAL HEADS.



TRAFFIC SIGNALS LEGEND

- CONTROLLER
- CONTROLLER (EXISTING)
- JUNCTION BOX
- POWER SUPPLY
- WOOD POST
- SIGNAL HEAD (OPT LIM CONV)
- SIGNAL HEAD (OPT LIM)
- SIGNAL HEAD (PEDESTRIAN)
- SIGNAL HEAD (STANDARD)
- CCTV CAMERA
- VIDEO DETECTOR
- PUSH BUTTON DETECTOR
- PREFORMED PULL BOX TYPE 1
- PREFORMED PULL BOX TYPE 2
- CONCRETE PULL BOX TYPE 1
- CONCRETE PULL BOX TYPE 2
- ITS PULL BOX TYPE 2
- ITS PULL BOX TYPE 5
- 6 X 6 LOOP DETECTOR
- 6 X 15 LOOP DETECTOR
- 30 X 6 LOOP DETECTOR
- CONDUIT MEDIAN
- CONDUIT PUSHED
- CONDUIT BRIDGE
- CONDUIT EXISTING
- CONDUIT TRENCHED
- SPAN WIRE
- MAST ARM - TYPE A BASE
- MAST ARM - TYPE C BASE
- MAST ARM - TYPE F BASE

TRAFFIC SIGNAL PHASING

NOTE:
---- INDICATES NON-CONFLICTING PHASES THAT MAY RUN CONCURRENTLY.
PEDESTRIAN INTERVALS SHALL OCCUR ONLY AFTER PUSHBUTTON ACTIVATION.

ROUTE D SIGNAL
SHEET 37 OF 48

STATE OF MISSOURI
ALLISON M. BRUNER
NUMBER PE-2019005896
PROFESSIONAL ENGINEER

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12/17/2025

ROUTE	STATE
D	MO
DISTRICT	SHEET NO.
SL	155

COUNTY
ST. LOUIS

JOB NO.
JSL0186

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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BMcD Project No. 170361

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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 | TOP MOUNT POST 8 FT. | TOP MOUNT POST 4 FT. | TYPE C & CL ARM LENGTH 35' | 40' | 45' | 50' | 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 | LEFT ARM E SIGNAL SPACING F | G | H | H' | LEFT ARM E SIGN SPACING F | G | H | H' | 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

NOTES:
1) CABLE PAY TOTALS INCLUDE 5% ADDED FOR SNAKING.

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	(5)	8′			9′												
1	(2)	13′			14′												
1	(1)	4′			5′												
SUBTOTALS					28′												
TOTALS					28′												

CABLE

FROM	TO	CENTER TO CENTER DISTANCE	POWER		CONTROL				CLOSED LOOP INTERCONNECT	LUMINAIRE		DETECTOR	FIBER		REMARKS
			1c #8		2c #16	5c #16	7c #16	3c #16	3 PAIR #16	CONTROL 2c #12	POLE & BRACKET 1c #10		SINGLE-MODE	MULTI-MODE	
☒	44	147′				177′									PED. HEAD 44
☒	PB45	147′			176′										PUSH BUTTON 45
☒	64	138′				168′									PED. HEAD 64
☒	PB63	138′			167′										PUSH BUTTON 63
☒	63	12′				36′									PED. HEAD 63
☒	PB64	14′			37′										PUSH BUTTON 64
☒	34	12′				36′									PED. HEAD 34
☒	PB35	16′			39′										PUSH BUTTON 35
☒	PB34	150′			179′										PUSH BUTTON 34
☒	PB23	150′			179′										PUSH BUTTON 23
SUBTOTALS					777′	417′									
TOTALS					820′	440′									

INTERSECTION _____ ROUTE D & WOODSON RD ROUTE D SIGNAL SHEET 39 OF 42 D-37B

MSD BASE MAPS: 15L, 15M, 16K, 16L MSD PREMIT NUMBER: 25MSD-00026

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STATE OF MISSOURI
ALLISON M. BRUNER
NUMBER PE-2019005896
PROFESSIONAL ENGINEER

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DATE PREPARED
12/17/2025

ROUTE	STATE
D	MO
DISTRICT	SHEET NO.
SL	157

COUNTY
ST. LOUIS

JOB NO.
JSL0186

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

REV.	DESCRIPTION	DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
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Certificate of Authority
No. : 000165
BMcD Project No. 170361

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				
ROUTE D	EXIST.	EXIST.	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 TYPE		COORDINATION INTERFACE *						TIME * CLOCK	NEMA CABINET TYPE *			170 CABINET TYPE *		170 SOFTWARE *	
									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
ROUTE D	EXIST.	EXIST.																				

NEMA DETECTOR ASSIGNMENT

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

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

DETECTOR SCHEDULE

DETECTOR NUMBER	APPROACH	TYPE				
		ACCESSIBLE PEDESTRIAN PUSHBUTTON AND SIGNING	INDUCTION LOOP (2)			OPTIONAL DETECTION
			STANDARD	DELAY/ EXTEND *	CALL UNIT *	
10	EB ROUTE D					X
20	WB ROUTE D					X
21	WB ROUTE D					X
23	WB ROUTE D	1				
30	NB WOODSON RD					X
31	NB WOODSON RD					X
32	NB WOODSON RD					X
34	NB WOODSON RD	1				
35	NB WOODSON RD	1				
40	SB WOODSON RD					X
41	SB WOODSON RD					X
42	SB WOODSON RD					X
45	SB WOODSON RD	1				
50	WB ROUTE D					X
60	EB ROUTE D					X
61	EB ROUTE D					X
63	EB ROUTE D	1				
64	EB ROUTE D	1				
TOTAL		6				1

*4 APPROACHES

* 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.

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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		
			SUBTOTAL		
			TOTAL		

NEMA LOAD SWITCH ASSIGNMENTS

1	2	3	4	5	6	7	8
Ø1	Ø2	Ø3	Ø4	Ø5	Ø6	FUTURE	FUTURE
9	10	11	12	13	14	15	16
PED Ø2	PED Ø3	PED Ø4	PED Ø6	FUTURE	FUTURE	FUTURE	FUTURE

ROUTE D & WOODSON RD
INTERSECTION

ROUTE D SIGNAL
SHEET 40 OF 48

D-37C

MSD BASE MAPS: 15L, 15M, 16K, 16L MSD PREMIT NUMBER: 25MSD-00026

STATE OF MISSOURI
ALLISON M. BRUNER
NUMBER PE-2019005896
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED, AND DATED ELECTRONICALLY
Digitally signed by Allison Bruner
Date: 2025.12.19 09:38:50-06'00'

DATE PREPARED 12/17/2025

ROUTE	STATE
D	MO
DISTRICT	SHEET NO.
SL	158

COUNTY ST. LOUIS
JOB NO. JSL0186
CONTRACT ID.
PROJECT NO.
BRIDGE NO.

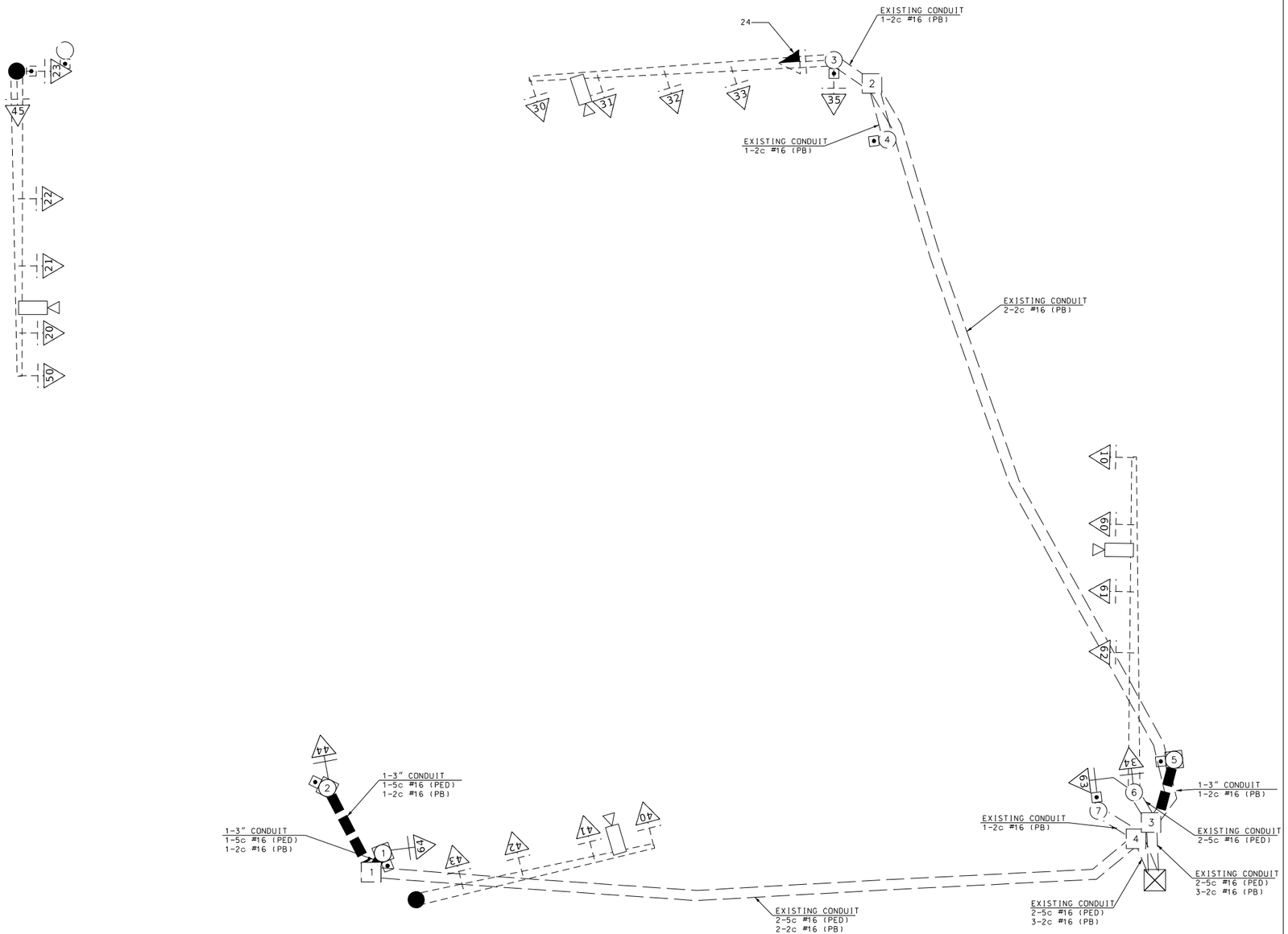
DESCRIPTION | DATE

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

Burns & McDonnell Engineering Co., Inc.
425 South Woods Mill Road
Chesterfield, Missouri 63017
314-682-1500
Certificate of Authority No. : 000165
BMcD Project No. 170361

EFFECTIVE: 12-01-2017

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

ROUTE D & WOODSON RD

INTERSECTION

ROUTE D SIGNAL
SHEET 41 OF 48

D-37D

STATE OF MISSOURI
ALLISON M. BRUNER
NUMBER PE-2019005896
PROFESSIONAL ENGINEER

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12/17/2025

ROUTE	STATE
D	MO
DISTRICT	SHEET NO.
SL	159

COUNTY
ST. LOUIS

JOB NO.
JSL0186

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION	DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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1-888-ASK-MODOT (1-888-275-6636)

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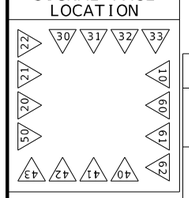
Certificate of Authority
No. : 000165

BMcD Project No. 170361

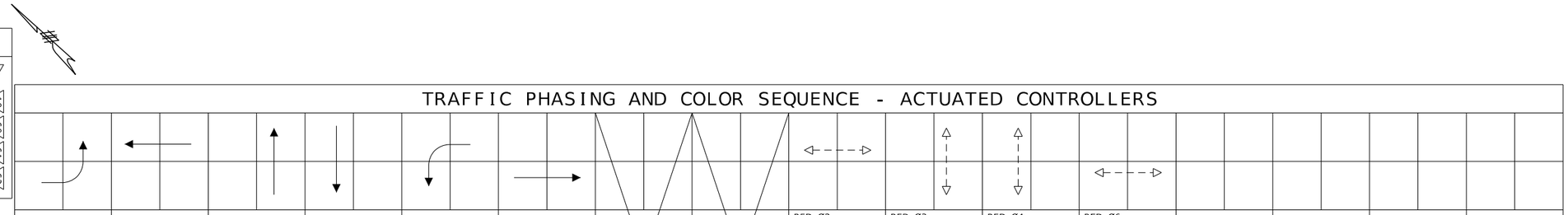
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EFFECTIVE: 12-01-2017

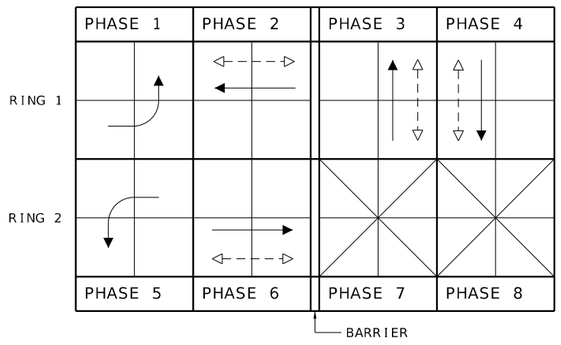
SIGNAL FACE LOCATION



TRAFFIC PHASING AND COLOR SEQUENCE - ACTUATED CONTROLLERS



		PHASE 1	PHASE 2	PHASE 3	PHASE 4	PHASE 5	PHASE 6	PED Ø2	PED Ø3	PED Ø4	PED Ø6	
FACE NUMBERS		10	20 22	30 31 32 33	40 41 42 43	50	60 62	23	34	44	63	FACE NUMBERS
			21				61	24	35	45	64	
SIGNAL INDICATIONS	R	R	R R	RL R R R	RL R R R	R	R R	DW	DW	DW	DW	R
	Y	YL	Y Y	YL Y Y Y	YL Y Y Y	YL	Y Y	FDW	FDW	FDW	FDW	Y
	FYL											FYL
	G	L	S Rt	L S S G	L S S G	L	S G	W	W	W	W	G
				L	L							SIGNAL INDICATIONS
DETECTOR ASSIGNMENTS		10	20 21 22	30 31 32 33	40 41 42 43	50	60 61 62					DETECTOR ASSIGNMENTS
DETECTOR ASSIGNMENTS (PEDS. ONLY)								23 24	34 35	44 45	63 64	
OVERLAP PARENT PHASES								2	3	4	6	



RING STRUCTURE

IF CALLED, ALL NON-CONFLICTING PHASES SHALL COMBINE AND TIME CONCURRENTLY. TIME TO BE DETERMINED BY THE ENGINEER AT SIGNAL TURN ON AND SET IN THE CONTROLLER BY THE CONTRACTOR.

LEGEND

- ACTUATED VEHICULAR MOVEMENT
- PARTIALLY RESTRICTED ACTUATED VEHICULAR MOVEMENT
- NON-ACTUATED VEHICULAR MOVEMENT
- PARTIALLY RESTRICTED NON-ACTUATED VEHICULAR MOVEMENT
- ACTUATED PEDESTRIAN MOVEMENT
- NON-ACTUATED PEDESTRIAN MOVEMENT
- VEHICLE STOPPED
- FDW — FLASHING DON'T WALK
- W — WALK
- DW — DON'T WALK
- R/W — RIGHT OF WAY INTERVAL
- YRt — YELLOW RIGHT ARROW
- RT. — GREEN RIGHT ARROW
- LY-YL — YELLOW LEFT ARROW
- L — GREEN LEFT ARROW
- S — GREEN STRAIGHT AHEAD ARROW
- G — CIRCULAR GREEN
- Y — CIRCULAR YELLOW
- R — CIRCULAR RED
- RL — RED LEFT ARROW
- Ø — TRAFFIC PHASE
- AO — ALL OTHERS
- FR — FLASHING RED
- FY — FLASHING CIRCULAR YELLOW
- FYL — FLASHING YELLOW LEFT ARROW

FLASHING OPERATION	
ROUTE D	FR
WOODSON RD	FR

CONTROLLER TYPE	NEMA

TRAFFIC SIGNAL CONTROL OPERATION

INTERSECTION OF ROUTE D

WITH WOODSON RD

ROUTE D SIGNAL
SHEET 42 OF 48

D-38A

ALLISON M. BRUNER NUMBER PE-2019005896
STATE OF MISSOURI PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED, AND DATED ELECTRONICALLY

Digitally signed by Allison Bruner
Date: 2025.12.19 09:38:50-06'00'

DATE PREPARED: 12/17/2025

ROUTE	STATE
D	MO
DISTRICT	SHEET NO.
SL	160

COUNTY: ST. LOUIS
JOB NO.: JSL0186
CONTRACT ID.:
PROJECT NO.:
BRIDGE NO.:

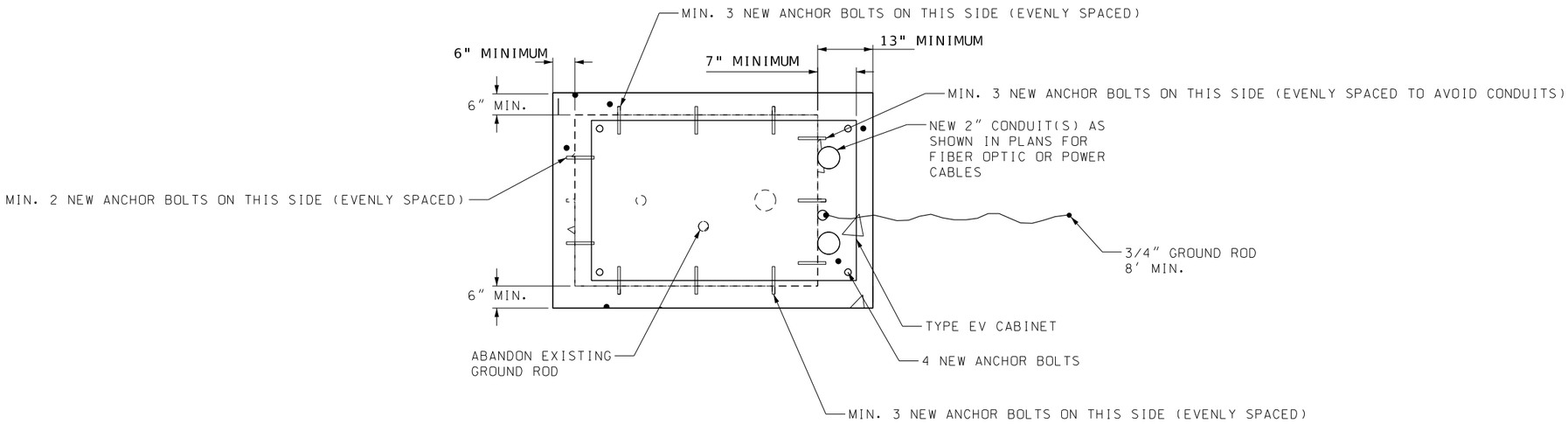
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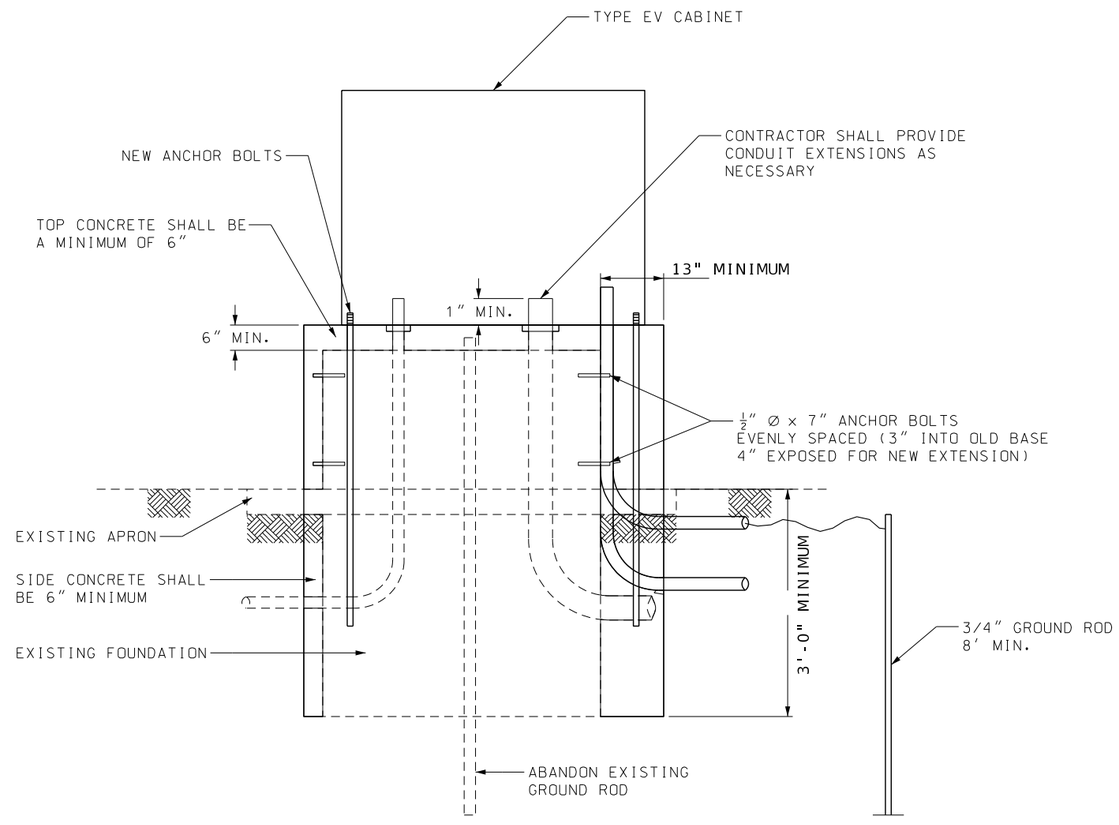
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

Burns & McDonnell Engineering Co., Inc.
425 South Woods Mill Road
Chesterfield, Missouri 63017
314-682-1500
Certificate of Authority
No. : 000165
BMcD Project No. 170361

MSD BASE MAPS: 15L, 15M, 16K, 16L MSD PERMIT NUMBER: 25MSD-00026

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CABINET BASE WRAP

NOT TO SCALE

ROUTE D SIGNAL
DETAIL SHEET 43 OF 48

ALLISON M. BRUNER NUMBER PE-2019005896
STATE OF MISSOURI PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED, AND DATED ELECTRONICALLY
Digitally signed by Allison Bruner
Date: 2025.12.19 09:38:50-06'00'

DATE PREPARED: 12/17/2025
ROUTE: D | STATE: MO
DISTRICT: SL | SHEET NO.: 161
COUNTY: ST. LOUIS
JOB NO.: JSL0186
CONTRACT ID.:
PROJECT NO.:
BRIDGE NO.:

DESCRIPTION | DATE

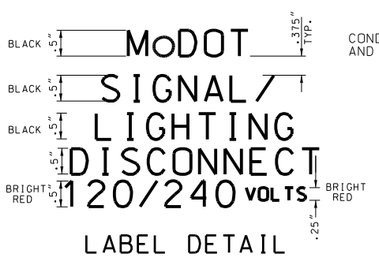
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
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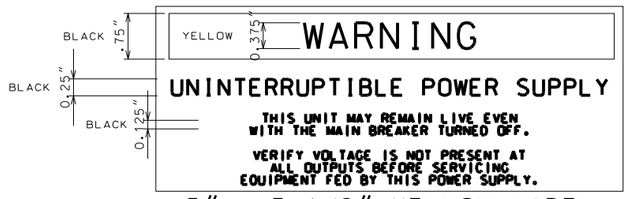
MSD BASE MAPS: 15L, 15M, 16K, 16L MSD PERMIT NUMBER: 25MSD-00026

GENERAL NOTES:

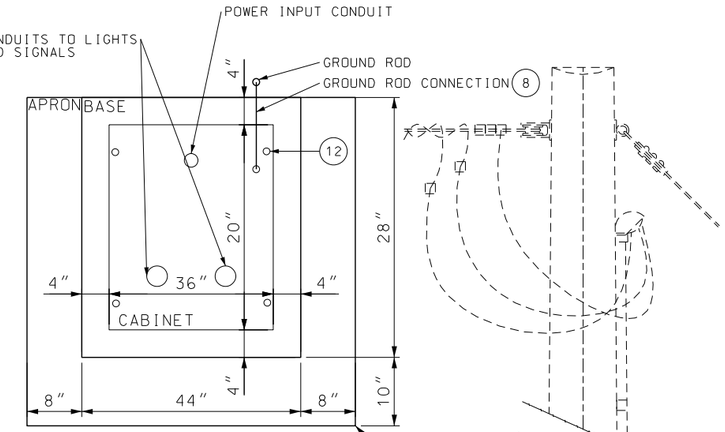
1. ALTERNATE CABINET DIMENSIONS WILL BE ALLOWED AS APPROVED BY THE ENGINEER. INTERIOR CABINET VOLUME SHALL BE EQUAL TO OR GREATER THAN THAT SHOWN ON PLANS AND PROPER CLEARANCES SHALL BE PROVIDED FOR ALL EQUIPMENT. CONCRETE BASE DIMENSIONS SHALL BE MODIFIED TO FIT THE CABINET SUPPLIER.
2. PLACEMENT OF ALL ITEMS SHALL BE APPROVED BY THE ENGINEER.
3. SCHEMATIC DIAGRAM SHALL BE MOUNTED ON INSIDE OF CABINET DOOR.
4. THE UTILITY SHALL BE NOTIFIED IN WRITING 30 DAYS PRIOR TO DATE SERVICE WILL BE REQUIRED.
5. ALL CABINET OPENINGS SHALL BE COVERED AND SEALED WITH LIFETIME SILICONE CAULK.
6. ALL MATERIALS REQUIRED EXCLUDING REFERENCE ITEMS AS SHOWN ON THE DRAWING SHALL BE INCLUDED IN PRICE BID FOR 'PAD MOUNTED POWER SUPPLY AND LIGHTING CONTROLLER WITH UNINTERRUPTIBLE POWER SUPPLY.' CABLE AND CONDUIT FROM POWER SUPPLY ASSEMBLY TO UTILITY COMPANY FACILITIES SHALL BE INCLUDED IN THE BID PRICE.
7. REFER TO PLAN SHEET DETAIL TO DETERMINE IF A UTILITY POLE OR PEDESTAL WILL BE REQUIRED.
8. CABINET SHALL BE LOCATED WITH A MINIMUM 36" CLEARANCE, FRONT, BACK, AND SIDES.
9. SEE CABINET MANUFACTURER FOR MOUNTING BASE DIMENSIONS AND ANCHOR BOLT LOCATIONS.



LABEL DETAIL (13)



5" x 3 1/2" YELLOW LABEL
(UNDER SIGNAL METER ON LOWER DOOR)

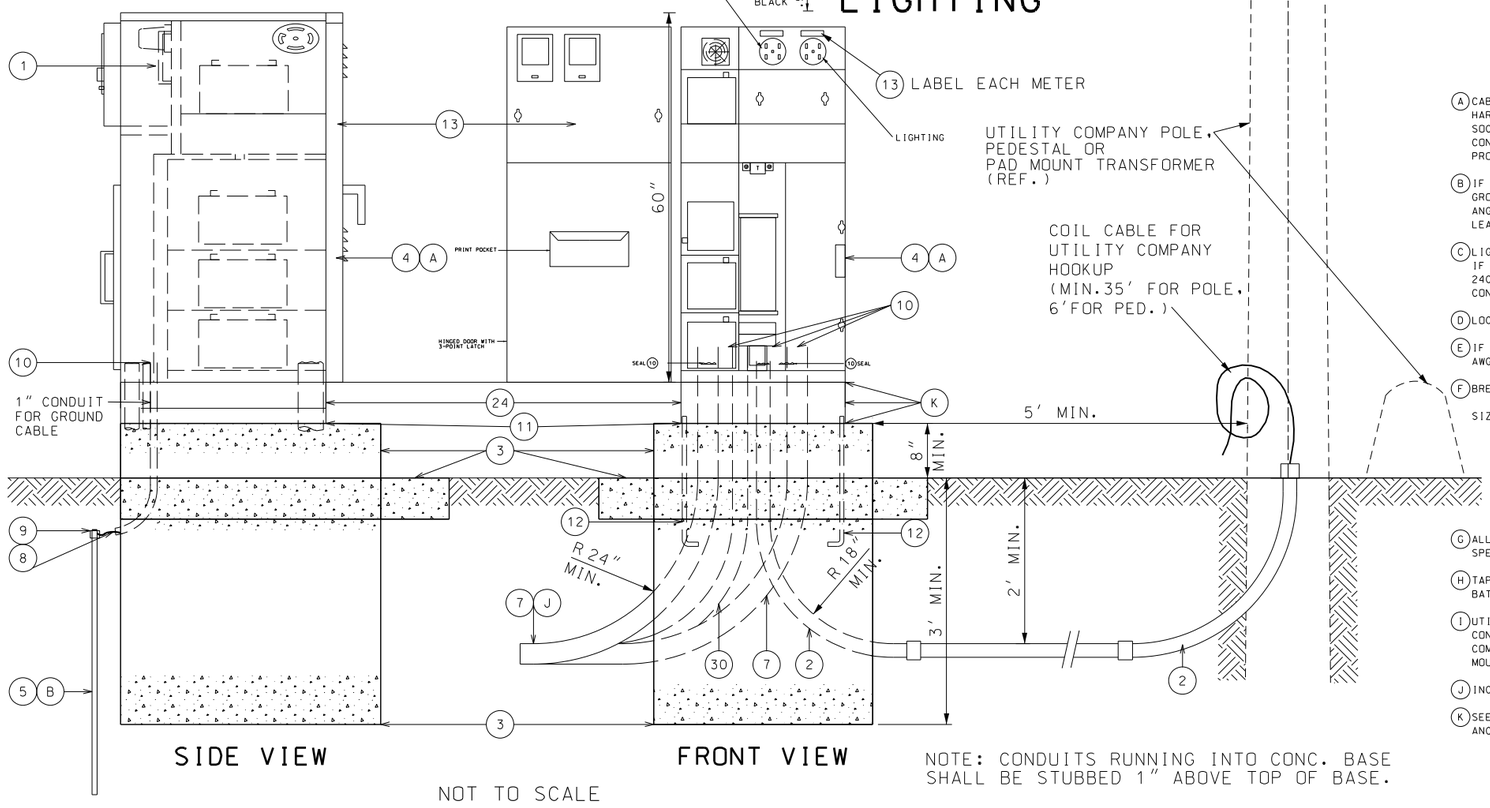


TOP VIEW

5' x 3'-2" x 6" CONCRETE APRON

LABEL DETAIL





SIDE VIEW FRONT VIEW

NOTE: CONDUITS RUNNING INTO CONC. BASE SHALL BE STUBBED 1" ABOVE TOP OF BASE.

NOT TO SCALE

DISCLAIMER

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LIST OF MATERIALS

ITEM	DESCRIPTION
1	METER SOCKET, 200 AMP, WITH LEVER TEST BYPASS
2	RIGID STEEL CONDUIT, 2" MIN. TO UTILITY CO. FACILITIES
3	CLASS B CONCRETE, 1.3 cu. yd. (MIN.)
4	NEMA 3R, DUST-TIGHT, WATERTIGHT CABINET
5	GROUND ROD, 3/4" DIA. x 8' MIN. (MIN. 8' IN SOIL)
6	PHOTOELECTRIC SWITCH AND SOCKET, 105/285 V., 1000 WATT
7	2" MIN. SCH 40 PVC CONDUIT (REF.)
8	#2 AWG MIN., 600 V., GROUND CABLE
9	EXOTHERMIC WELD WIRE TO ROD
10	PLIABLE SEALANT
11	LIFETIME SILICONE CAULK
12	ANCHOR BOLTS, 5/8-11 x 18" LONG BOLTS, HOT DIP GALVANIZED, 4 REQUIRED
13	WEATHERPROOF ADHESIVE LABEL, VINYL RAISED LETTERING (OR EQUIVALENT, SEE DETAIL)
14	INSULATED TERMINAL BLOCK
15	2-POLE, 20 AMP, 120V COIL LIGHTING CONTACTOR
16	2-POLE, 650 VOLT LIGHTNING ARRESTER
17	1-POLE, 15 AMP, TYPE B BREAKER TO PHOTOELECTRIC SWITCH
18	MANUAL-AUTO SWITCH
19	INSULATED GROUNDABLE NEUTRAL, 100 AMP
20	2-POLE, TYPE A MAIN BREAKER
21	2-POLE, 15 AMP (MIN), TYPE A BREAKERS TO LIGHTING CIRCUITS *
22	1-POLE, 15 AMP (MIN.), TYPE A BREAKER TO SIGNALS *
23	#2 AWG MIN., 600 V., POWER CABLE *
24	6" PEDESTAL RISER
25	12V GEL CELL BATTERIES IN SERIES (4 MINIMUM)
26	30A GENERATOR MALE BASE
27	INVERTER (1100VA MINIMUM)
28	1-POLE, 40 AMP, TYPE B UPS BREAKER
29	1-POLE, 15 AMP, TYPE B FAN BREAKER
30	1 ½" CONDUIT OUT TO SIGNAL CABINET (CAT 6E AND CONTROL WIRING)
*	SEE PLANS FOR SIZE

NOTES

(A) CABINET WITH POWER SUPPLY SHALL BE ALUMINUM OR STAINLESS STEEL. ALL HARDWARE, HINGES, CATCHES, ETC. SHALL BE STAINLESS STEEL. METER SOCKET AND OTHER EQUIPMENT AND MATERIALS SHALL BE U.L. APPROVED AND CONFORM TO THE REQUIREMENTS OF THE UTILITY COMPANY OR MUNICIPALITY PROVIDING POWER.

(B) IF SUBSURFACE CONDITIONS EXIST WHICH PROHIBIT THE PLACEMENT OF THE GROUND ROD IN A VERTICAL POSITION, THE ROD MAY BE DRIVEN AT AN OBLIQUE ANGLE NOT TO EXCEED 45 DEGREES FROM VERTICAL OR BURIED IN A TRENCH AT LEAST 30 INCHES DEEP. CONNECTION TO GROUND ROD SHALL BE CAD WELDED.

(C) LIGHTING SYSTEM VOLTAGE AS SPECIFIED ON PLANS (120 OR 240 VOLTS). IF LIGHTS ARE TO BE MOUNTED ON SIGNAL POSTS, VOLTAGE MUST BE 120 VOLTS. 240 VOLT LIGHTS ARE NOT TO BE MOUNTED ON OR WIRED THROUGH SIGNAL POSTS. CONDUIT, OR PULL BOXES.

(D) LOCATE PHOTOELECTRIC SWITCH AT CENTER OF WINDOW.

(E) IF FOR REASONS OF VOLTAGE DROP A WIRE SIZE IS SPECIFIED LARGER THAN #2 AWG, A LARGER TERMINAL BLOCK SHALL BE INSTALLED FOR THAT CIRCUIT.

(F) BREAKER SIZING:

SIZE (AMPS)	240V TOTAL CIRCUIT LOAD (WATTS)	120V TOTAL CIRCUIT LOAD (WATTS)
15	0-2800	0-1390
20	2850-3700	1400-1850
25	3750-4600	1860-2320
30	4650-5500	2330-2780
35	5550-6500	-
40	6550-7400	-

CIRCUIT LOAD INCLUDES LOAD DUE TO LINE LOSS, LAMP, AND BALLAST LOAD.

(G) ALL CIRCUIT BREAKERS SHALL CONFORM TO SECTION 901.4 OF THE STANDARD SPECIFICATIONS.

(H) TAPE BATTERY TEMPERATURE SENSOR TO THE SIDE OF EITHER BATTERY #2 OR BATTERY #3. SENSOR SHOULD BE TO THE MIDDLE OF THE BATTERY BANK.

(I) UTILITY COMPANY SHALL DECIDE IF LIGHTNING ARRESTORS ARE TO BE CONNECTED ON THE LINE SIDE OR THE LOAD SIDE OF THE METER. THE UTILITY COMPANY SHALL ALSO DETERMINE WHERE THE LIGHTNING ARRESTOR SHALL BE MOUNTED.

(J) INCLUDE ADDITIONAL CONDUITS AS NECESSARY FOR AUXILIARY CIRCUITS.

(K) SEE CABINET MANUFACTURER FOR MOUNTING BASE DIMENSIONS AND ANCHOR BOLT LOCATIONS.

SPECIAL SHEETS
PAD MOUNTED 120V/240V POWER SUPPLY & LIGHTING CONTROLLER W/ UNINTERRUPTIBLE POWER SUPPLY
SHEET 1 OF 3

ROUTE D SIGNAL
DETAIL SHEET 44 OF 48

STATE OF MISSOURI
ALLISON M. BRUNER
NUMBER PE-2019005896
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED, AND DATED ELECTRONICALLY
Digitally signed by Allison Bruner
Date: 2025.12.19 09:38:50-06'00'

DATE PREPARED
12/18/2025

ROUTE	STATE
D	MO
DISTRICT	SHEET NO.
SL	162

COUNTY
ST. LOUIS

JOB NO.
JSL0186

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION	DATE

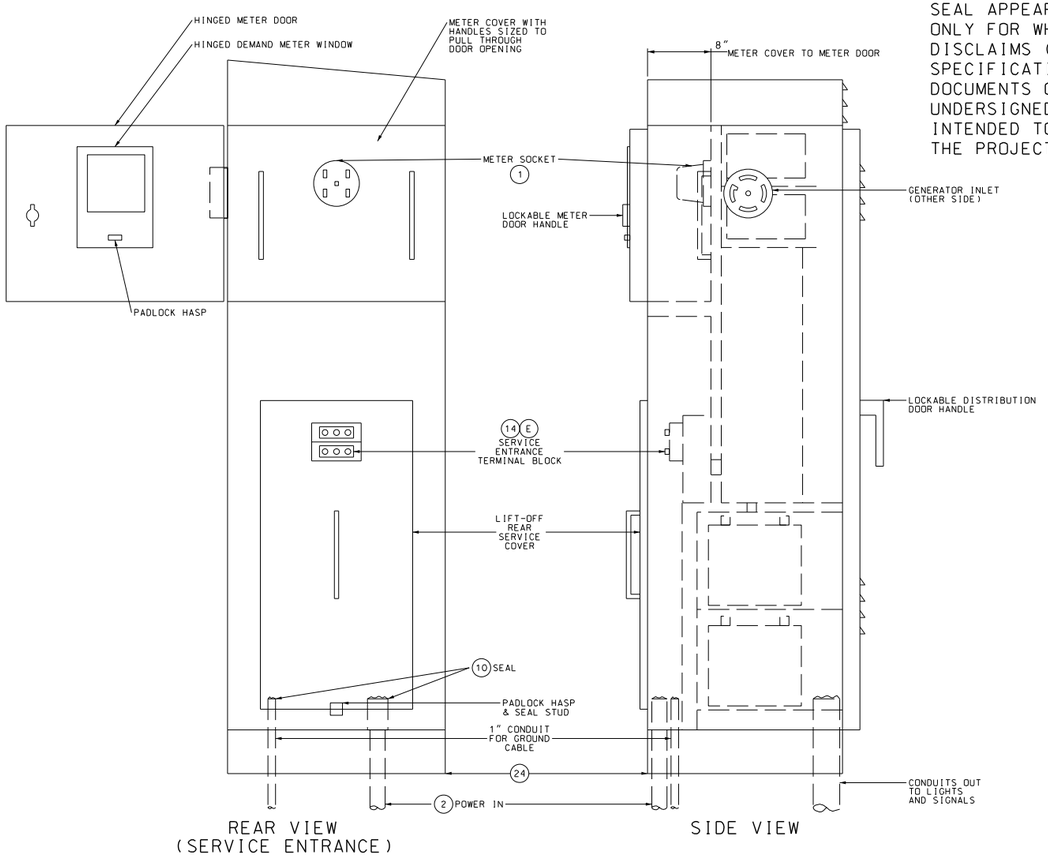
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
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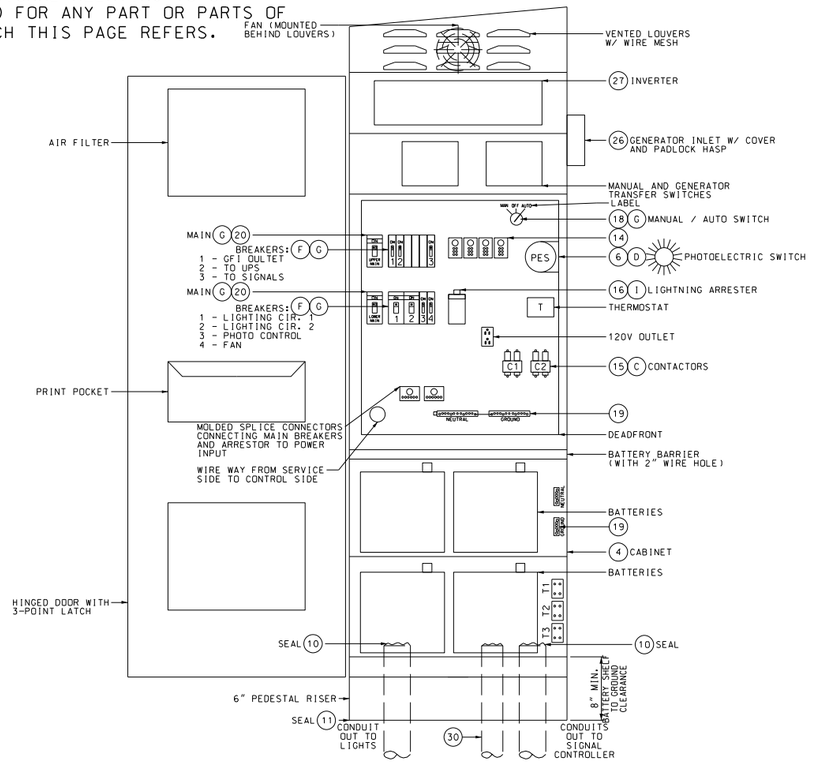
Burns & McDonnell Engineering Co., Inc.
425 South Woods Mill Road
Chesterfield, Missouri 63017
314-682-1500
Certificate of Authority No. : 000165
BMcD Project No. 170361

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EQUIPMENT LAYOUT

NOT TO SCALE

LIST OF MATERIALS	
ITEM	DESCRIPTION
1	METER SOCKET, 200 AMP, WITH LEVER TEST BYPASS
2	RIGID STEEL CONDUIT, 2" MIN. TO UTILITY CO. FACILITIES
3	CLASS B CONCRETE, 1.3 cu. yd. (MIN.)
4	NEMA 3R, DUST-TIGHT, WATERTIGHT CABINET
5	GROUND ROD, 3/4" DIA. x 8' MIN. (MIN. 8' IN SOIL)
6	PHOTOELECTRIC SWITCH AND SOCKET, 105/285 V., 1000 WATT
7	2" MIN. SCH 40 PVC CONDUIT (REF.)
8	#2 AWG MIN., 600 V., GROUND CABLE
9	EXOTHERMIC WELD WIRE TO ROD
10	PLIABLE SEALANT
11	LIFETIME SILICONE CAULK
12	ANCHOR BOLTS, 5/8-11 x 18" LONG BOLTS, HOT DIP GALVANIZED, 4 REQUIRED
13	WEATHERPROOF ADHESIVE LABEL, VINYL RAISED LETTERING (OR EQUIVALENT, SEE DETAIL)
14	INSULATED TERMINAL BLOCK
15	2-POLE, 20 AMP, 120V COIL LIGHTING CONTACTOR
16	2-POLE, 650 VOLT LIGHTNING ARRESTER
17	1-POLE, 15 AMP, TYPE B BREAKER TO PHOTOELECTRIC SWITCH
18	MANUAL-AUTO SWITCH
19	INSULATED GROUNDABLE NEUTRAL, 100 AMP
20	2-POLE, TYPE A MAIN BREAKER
21	2-POLE, 15 AMP (MIN), TYPE A BREAKERS TO LIGHTING CIRCUITS *
22	1-POLE, 15 AMP (MIN.), TYPE A BREAKER TO SIGNALS *
23	#2 AWG MIN., 600 V., POWER CABLE *
24	6" PEDESTAL RISER
25	12V GEL CELL BATTERIES IN SERIES (4 MINIMUM)
26	30A GENERATOR MALE BASE
27	INVERTER (1100VA MINIMUM)
28	1-POLE, 40 AMP, TYPE B UPS BREAKER
29	1-POLE, 15 AMP, TYPE B FAN BREAKER
30	1 ½" CONDUIT OUT TO SIGNAL CABINET (CAT 5E AND CONTROL WIRING)
*	SEE PLANS FOR SIZE

NOTES

(A) CABINET WITH POWER SUPPLY SHALL BE ALUMINUM OR STAINLESS STEEL. ALL HARDWARE, HINGES, CATCHES, ETC. SHALL BE STAINLESS STEEL. METER SOCKET AND OTHER EQUIPMENT AND MATERIALS SHALL BE U.L. APPROVED AND CONFORM TO THE REQUIREMENTS OF THE UTILITY COMPANY OR MUNICIPALITY PROVIDING POWER.

(B) IF SUBSURFACE CONDITIONS EXIST WHICH PROHIBIT THE PLACEMENT OF THE GROUND ROD IN A VERTICAL POSITION, THE ROD MAY BE DRIVEN AT AN OBLIQUE ANGLE NOT TO EXCEED 45 DEGREES FROM VERTICAL OR BURIED IN A TRENCH AT LEAST 30 INCHES DEEP. CONNECTION TO GROUND ROD SHALL BE CADWELDED.

(C) LIGHTING SYSTEM VOLTAGE AS SPECIFIED ON PLANS (120 OR 240 VOLTS). IF LIGHTS ARE TO BE MOUNTED ON SIGNAL POSTS, VOLTAGE MUST BE 120 VOLTS. 240 VOLT LIGHTS ARE NOT TO BE MOUNTED ON OR WIRED THROUGH SIGNAL POSTS, CONDUIT, OR PULL BOXES.

(D) LOCATE PHOTOELECTRIC SWITCH AT CENTER OF WINDOW.

(E) IF FOR REASONS OF VOLTAGE DROP A WIRE SIZE IS SPECIFIED LARGER THAN #2 AWG, A LARGER TERMINAL BLOCK SHALL BE INSTALLED FOR THAT CIRCUIT.

(F) BREAKER SIZING:

SIZE (AMPS)	240V TOTAL CIRCUIT LOAD (WATTS)	120V TOTAL CIRCUIT LOAD (WATTS)
15	0-2800	0-1390
20	2850-3700	1400-1850
25	3750-4600	1860-2320
30	4650-5500	2330-2780
35	5550-6500	-
40	6550-7400	-

CIRCUIT LOAD INCLUDES LOAD DUE TO LINE LOSS, LAMP, AND BALLAST LOAD.

(G) ALL CIRCUIT BREAKERS SHALL CONFORM TO SECTION 901.4 OF THE STANDARD SPECIFICATIONS.

(H) TAPE BATTERY TEMPERATURE SENSOR TO THE SIDE OF EITHER BATTERY #2 OR BATTERY #3. SENSOR SHOULD BE TO THE MIDDLE OF THE BATTERY BANK.

(I) UTILITY COMPANY SHALL DECIDE IF LIGHTNING ARRESTORS ARE TO BE CONNECTED ON THE LINE SIDE OR THE LOAD SIDE OF THE METER. THE UTILITY COMPANY SHALL ALSO DETERMINE WHERE THE LIGHTNING ARRESTOR SHALL BE MOUNTED.

(J) INCLUDE ADDITIONAL CONDUITS AS NECESSARY FOR AUXILIARY CIRCUITS.

(K) SEE CABINET MANUFACTURER FOR MOUNTING BASE DIMENSIONS AND ANCHOR BOLT LOCATIONS.

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ROUTE D SIGNAL
DETAIL SHEET 45 OF 48

STATE OF MISSOURI
ALLISON M. BRUNER
NUMBER PE-2019005896
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED, AND DATED ELECTRONICALLY
Digitally signed by Allison Bruner
Date: 2025.12.19 09:38:50-06'00'

DATE PREPARED 12/17/2025
ROUTE D | STATE MO
DISTRICT SL | SHEET NO. 163
COUNTY ST. LOUIS
JOB NO. JSL0186
CONTRACT ID.
PROJECT NO.
BRIDGE NO.

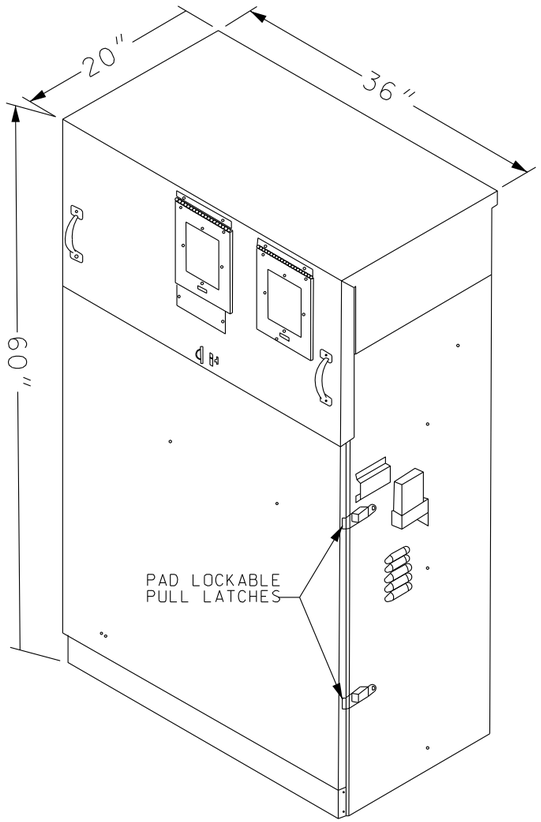
DESCRIPTION | DATE

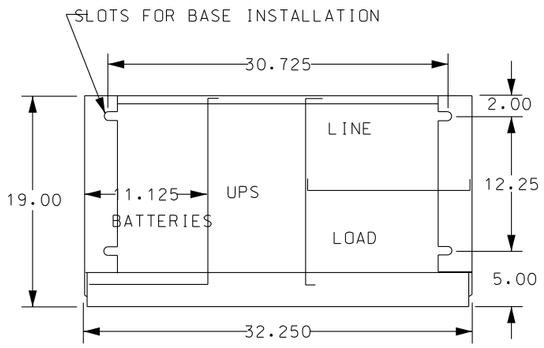
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

Burns & McDonnell Engineering Co., Inc.
425 South Woods Mill Road
Chesterfield, Missouri 63017
314-682-1500
Certificate of Authority
No. : 000165
BMcD Project No. 170361

MSD BASE MAPS: 15L, 15M, 16K, 16L MSD PERMIT NUMBER: 25MSD-00026

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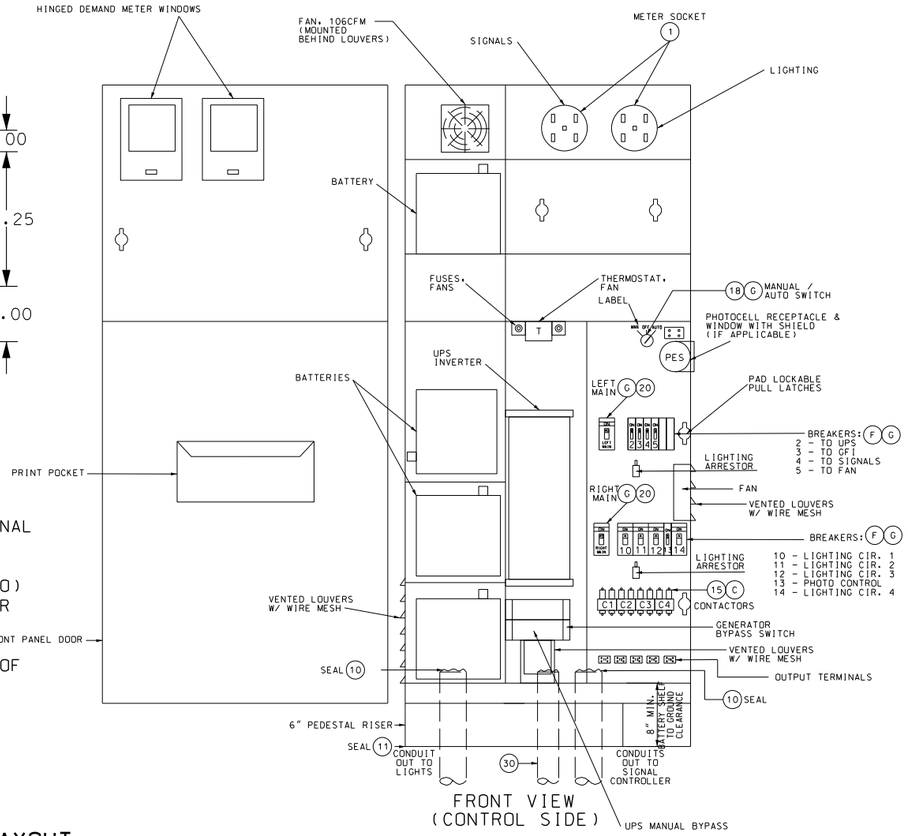




PEDESTAL PLAN VIEW
MOUNTING SLOT DETAIL

DISCLAIMER
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NOTE: WHERE SPACE PROVIDES, UPS SHALL HAVE ADDITIONAL LABELS DENOTING 'LIGHTING' CONTROLS



EQUIPMENT LAYOUT
NOT TO SCALE

NOTE: CONDUITS RUNNING INTO CONC. BASE SHALL BE STUBBED 1" ABOVE TOP OF BASE.

LIST OF MATERIALS			
ITEM	DESCRIPTION		
1	METER SOCKET, 200 AMP. WITH LEVER TEST BYPASS		
2	RIGID STEEL CONDUIT, 2" MIN. TO UTILITY CO. FACILITIES		
3	CLASS B CONCRETE, 1.3 cu. yd. (MIN.)		
4	NEMA 3R, DUST-TIGHT, WATERTIGHT CABINET		
5	GROUND ROD, 3/4" DIA. x 8' MIN. (MIN. 8' IN SOIL)		
6	PHOTOELECTRIC SWITCH AND SOCKET, 105/285 V., 1000 WATT		
7	2" MIN. SCH 40 PVC CONDUIT (REF.)		
8	#2 AWG MIN., 600 V., GROUND CABLE		
9	EXOTHERMIC WELD WIRE TO ROD		
10	PLIABLE SEALANT		
11	LIFETIME SILICONE CAULK		
12	ANCHOR BOLTS, 5/8-11 x 18" LONG BOLTS, HOT DIP GALVANIZED, 4 REQUIRED		
13	WEATHERPROOF ADHESIVE LABEL, VINYL RAISED LETTERING (OR EQUIVALENT, SEE DETAIL)		
14	INSULATED TERMINAL BLOCK		
15	2-POLE, 20 AMP, 120V COIL LIGHTING CONTACTOR		
16	2-POLE, 650 VOLT LIGHTNING ARRESTER		
17	1-POLE, 15 AMP. TYPE B BREAKER TO PHOTOELECTRIC SWITCH		
18	MANUAL-AUTO SWITCH		
19	INSULATED GROUNDABLE NEUTRAL, 100 AMP		
20	2-POLE, TYPE A MAIN BREAKER	26	30A GENERATOR MALE BASE
21	2-POLE, 15 AMP (MIN), TYPE A BREAKERS TO LIGHTING CIRCUITS *	27	INVERTER (1100VA MINIMUM)
22	1-POLE, 15 AMP (MIN.), TYPE A BREAKER TO SIGNALS *	28	1-POLE, 40 AMP, TYPE B UPS BREAKER
23	#2 AWG MIN., 600 V., POWER CABLE *	29	1-POLE, 15 AMP, TYPE B FAN BREAKER
24	6" PEDESTAL RISER	30	1 ½" CONDUIT OUT TO SIGNAL CABINET (CAT 6E AND CONTROL WIRING)
25	12V GEL CELL BATTERIES IN SERIES (4 MINIMUM)	*	SEE PLANS FOR SIZE

NOTES

(A) CABINET WITH POWER SUPPLY SHALL BE ALUMINUM OR STAINLESS STEEL. ALL HARDWARE, HINGES, CATCHES, ETC. SHALL BE STAINLESS STEEL. METER SOCKET AND OTHER EQUIPMENT AND MATERIALS SHALL BE U.L. APPROVED AND CONFORM TO THE REQUIREMENTS OF THE UTILITY COMPANY OR MUNICIPALITY PROVIDING POWER.

(B) IF SUBSURFACE CONDITIONS EXIST WHICH PROHIBIT THE PLACEMENT OF THE GROUND ROD IN A VERTICAL POSITION, THE ROD MAY BE DRIVEN AT AN OBLIQUE ANGLE NOT TO EXCEED 45 DEGREES FROM VERTICAL OR BURIED IN A TRENCH AT LEAST 30 INCHES DEEP. CONNECTION TO GROUND ROD SHALL BE CAD WELDED.

(C) LIGHTING SYSTEM VOLTAGE AS SPECIFIED ON PLANS (120 OR 240 VOLTS). IF LIGHTS ARE TO BE MOUNTED ON SIGNAL POSTS, VOLTAGE MUST BE 120 VOLTS. 240 VOLT LIGHTS ARE NOT TO BE MOUNTED ON OR WIRED THROUGH SIGNAL POSTS. CONDUIT, OR PULL BOXES.

(D) LOCATE PHOTOELECTRIC SWITCH AT CENTER OF WINDOW.

(E) IF FOR REASONS OF VOLTAGE DROP A WIRE SIZE IS SPECIFIED LARGER THAN #2 AWG, A LARGER TERMINAL BLOCK SHALL BE INSTALLED FOR THAT CIRCUIT.

(F) BREAKER SIZING:

SIZE (AMPS)	240V TOTAL CIRCUIT LOAD (WATTS)	120V TOTAL CIRCUIT LOAD (WATTS)
15	0-2800	0-1390
20	2850-3700	1400-1850
25	3750-4600	1860-2320
30	4650-5500	2330-2780
35	5550-6500	-
40	6550-7400	-

CIRCUIT LOAD INCLUDES LOAD DUE TO LINE LOSS, LAMP, AND BALLAST LOAD.

(G) ALL CIRCUIT BREAKERS SHALL CONFORM TO SECTION 901.4 OF THE STANDARD SPECIFICATIONS.

(H) TAPE BATTERY TEMPERATURE SENSOR TO THE SIDE OF EITHER BATTERY #2 OR BATTERY #3. SENSOR SHOULD BE TO THE MIDDLE OF THE BATTERY BANK.

(I) UTILITY COMPANY SHALL DECIDE IF LIGHTNING ARRESTORS ARE TO BE CONNECTED ON THE LINE SIDE OR THE LOAD SIDE OF THE METER. THE UTILITY COMPANY SHALL ALSO DETERMINE WHERE THE LIGHTNING ARRESTOR SHALL BE MOUNTED.

(J) INCLUDE ADDITIONAL CONDUITS AS NECESSARY FOR AUXILIARY CIRCUITS.

(K) SEE CABINET MANUFACTURER FOR MOUNTING BASE DIMENSIONS AND ANCHOR BOLT LOCATIONS.

SPECIAL SHEETS
PAD MOUNTED 120V/240V POWER SUPPLY & LIGHTING CONTROLLER W/ UNINTERRUPTIBLE POWER SUPPLY
SHEET 2 OF 3

ROUTE D SIGNAL
DETAIL SHEET 46 OF 48

SL --

ALLISON M. BRUNER NUMBER PE-2019005896
STATE OF MISSOURI * PROFESSIONAL ENGINEER *
THIS SHEET HAS BEEN SIGNED, SEALED, AND DATED ELECTRONICALLY
Digitally signed by Allison Bruner
Date: 2025.12.19 09:38:50-06'00'

DATE PREPARED
12/17/2025

ROUTE	STATE
D	MO
DISTRICT	SHEET NO.
SL	164

COUNTY
ST. LOUIS
JOB NO.
JSL0186
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)

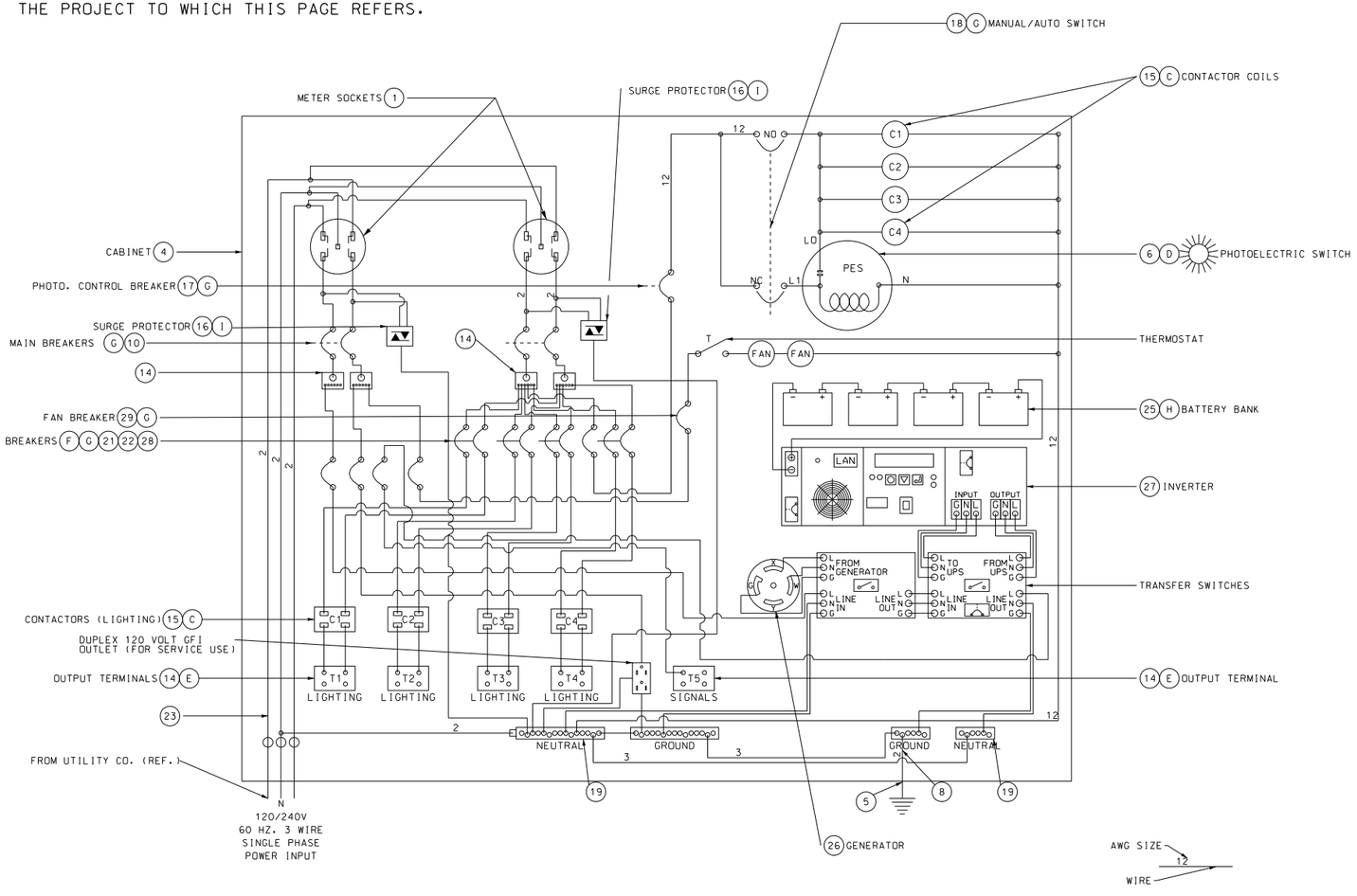
Burns & McDonnell Engineering Co., Inc.
425 South Woods Mill Road
Chesterfield, Missouri 63017
314-682-1500
Certificate of Authority
No.: 000165
BMcD Project No. 170361

MSD BASE MAPS: 15L, 15M, 16K, 16L MSD PERMIT NUMBER: 25MSD-00026

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WIRING DIAGRAM

LIST OF MATERIALS	
ITEM	DESCRIPTION
1	METER SOCKET, 200 AMP, WITH LEVER TEST BYPASS
2	RIGID STEEL CONDUIT, 2" MIN. TO UTILITY CO. FACILITIES
3	CLASS B CONCRETE, 1.3 cu. yd. (MIN.)
4	NEMA 3R, DUST-TIGHT, WATERTIGHT CABINET
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6	PHOTOELECTRIC SWITCH AND SOCKET, 105/285 V., 1000 WATT
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12	ANCHOR BOLTS, 5/8-11 x 18" LONG BOLTS, HOT DIP GALVANIZED, 4 REQUIRED
13	WEATHERPROOF ADHESIVE LABEL, VINYL RAISED LETTERING (OR EQUIVALENT, SEE DETAIL)
14	INSULATED TERMINAL BLOCK
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25	12V GEL CELL BATTERIES IN SERIES (4 MINIMUM)
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30	1 ¼" CONDUIT OUT TO SIGNAL CABINET (CAT 6E AND CONTROL WIRING)
*	SEE PLANS FOR SIZE

NOTES

(A) CABINET WITH POWER SUPPLY SHALL BE ALUMINUM OR STAINLESS STEEL. ALL HARDWARE, HINGES, CATCHES, ETC. SHALL BE STAINLESS STEEL. METER SOCKET AND OTHER EQUIPMENT AND MATERIALS SHALL BE U.L. APPROVED AND CONFORM TO THE REQUIREMENTS OF THE UTILITY COMPANY OR MUNICIPALITY PROVIDING POWER.

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(D) LOCATE PHOTOELECTRIC SWITCH AT CENTER OF WINDOW.

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SIZE (AMPS)	240V TOTAL CIRCUIT LOAD (WATTS)	120V TOTAL CIRCUIT LOAD (WATTS)
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(K) SEE CABINET MANUFACTURER FOR MOUNTING BASE DIMENSIONS AND ANCHOR BOLT LOCATIONS.

SPECIAL SHEETS
PAD MOUNTED 120V/240V POWER
SUPPLY & LIGHTING CONTROLLER
W/ UNINTERRUPTIBLE POWER SUPPLY
SHEET 3 OF 3

ROUTE D SIGNAL
DETAIL SHEET 47 OF 48

SL --

ALLISON M. BRUNER NUMBER PE-2019005896 PROFESSIONAL ENGINEER STATE OF MISSOURI

THIS SHEET HAS BEEN SIGNED, SEALED, AND DATED ELECTRONICALLY

Digitally signed by Allison Bruner
Date: 2025.12.19 09:38:50-06'00'

DATE PREPARED
12/17/2025

ROUTE	STATE
D	MO
DISTRICT	SHEET NO.
SL	165

COUNTY
ST. LOUIS

JOB NO.
JSL0186

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)

Burns & McDonnell Engineering Co., Inc.

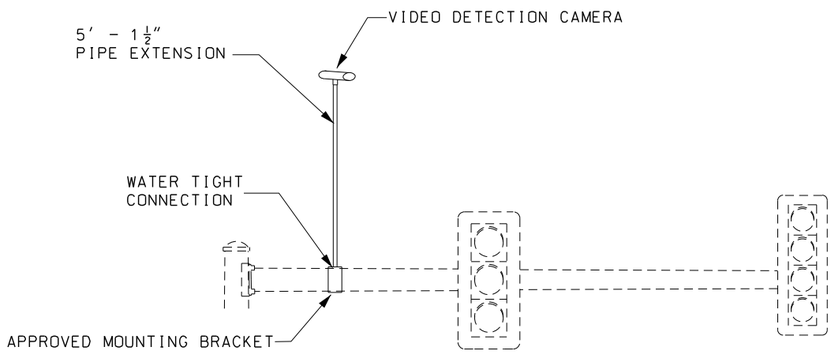
425 South Woods Mill Road
Chesterfield, Missouri 63017
314-682-1500

Certificate of Authority
No.: 000165

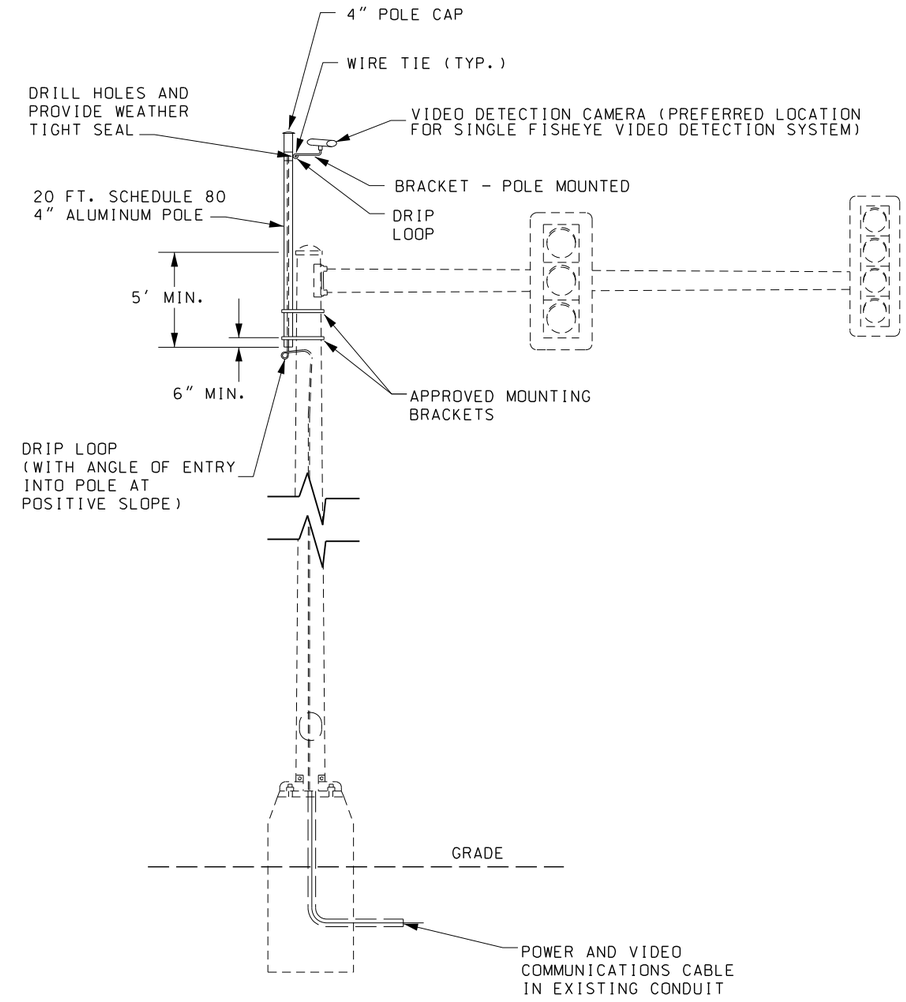
BMcD Project No. 170361

MSD BASE MAPS: 15L, 15M, 16K, 16L MSD PERMIT NUMBER: 25MSD-00026

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CAMERAS SHALL BE AS CLOSE AS POSSIBLE TO CENTER OF SIGNALIZED APPROACH



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GENERAL NOTES:

1) PROVIDE WATERTIGHT SEAL WHERE CABLES ENTER AND EXIT.
2) CAMERAS SHALL BE INSTALLED PER MANUFACTURER'S SPECIFICATIONS.
3) NO CAMERA SHALL BE INSTALLED ON PEDESTALS UNLESS DIRECTED BY THE ENGINEER.
4) NO CAMERA SHALL BE INSTALLED ON 15' LUMINAIRE ARM UNLESS OTHERWISE DIRECTED BY THE ENGINEER.

NOT TO SCALE

REVISED 07/27/2023

ROUTE D SIGNAL
DETAIL SHEET 48 OF 48

STATE OF MISSOURI
ALLISON M. BRUNER
NUMBER PE-2019005896
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED, AND DATED ELECTRONICALLY
Digitally signed by Allison Bruner
Date: 2025.12.19 09:38:50-06'00'

DATE PREPARED: 12/17/2025
ROUTE: D | STATE: MO
DISTRICT: SL | SHEET NO.: 166
COUNTY: ST. LOUIS
JOB NO.: JSL0186
CONTRACT ID.:
PROJECT NO.:
BRIDGE NO.:

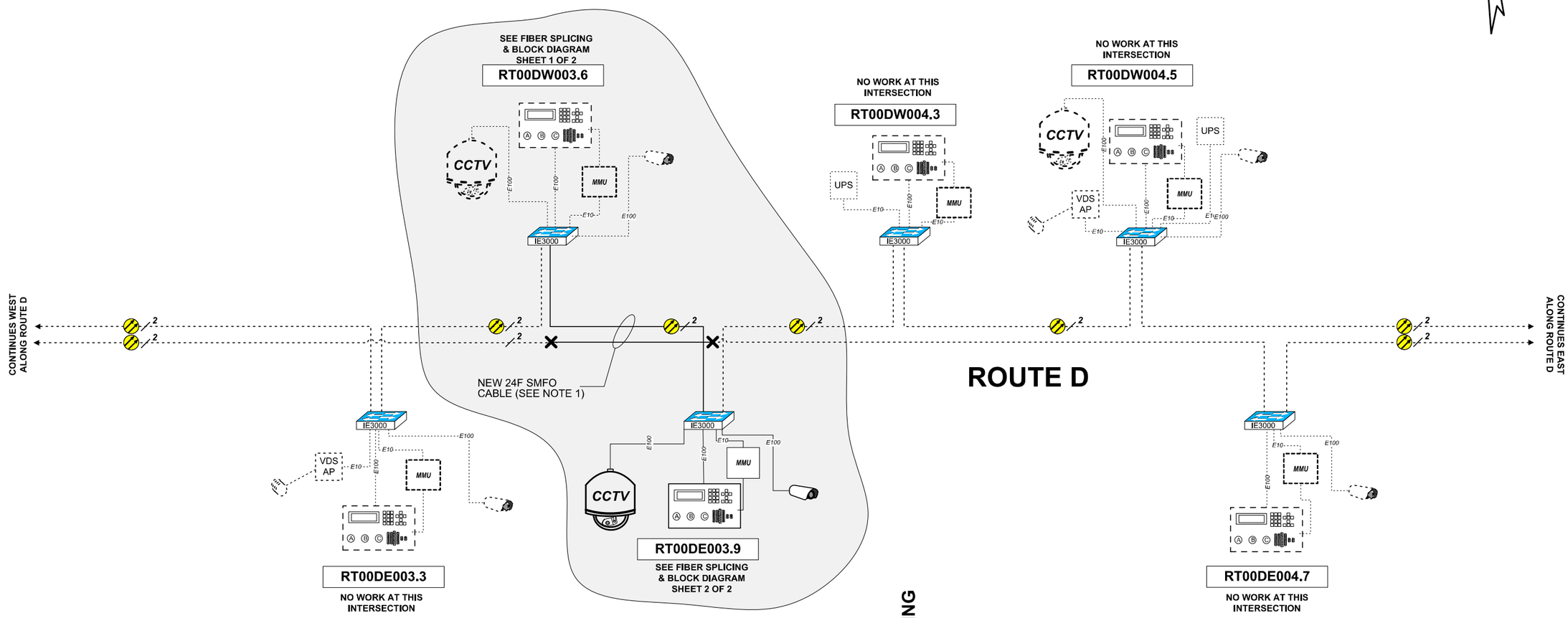
DESCRIPTION	DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)
Burns & McDonnell Engineering Co., Inc.
425 South Woods Mill Road
Chesterfield, Missouri 63017
314-682-1500
Certificate of Authority
No. : 000165
BMcD Project No. 170361

MSD BASE MAPS: 15L, 15M, 16K, 16L MSD PERMIT NUMBER: 25MSD-00026

c:\bmcd_lib\pw_connect\trn\d0171707\166_SG_SL0186_l15.dgn 9:55:21 AM 12/17/2025

NOTES:
1. THE CONTRACTOR SHALL USE-IN-PLACE EXISTING CONDUIT TO REPLACE FIBER OPTIC CABLE ON RTE. D BETWEEN ASHBY AND PAGE INDUSTRIAL. THE EXISTING CONDUIT-FIBER PATHWAY SHALL BE PROVIDED IN KMZ FORMAT TO THE CONTRACTOR AT THE PRE-CONSTRUCTION MEETING.



SHADED AREA SHOW WORK FOR THIS PROJECT

COMMUNICATIONS PLAN

ROUTE D
(PAGE AVE.)
SHEET 1 OF 1

RT055E001.8T — DEVICE IDENTIFIER

CCTV — EXISTING/ PROPOSED CCTV CAMERA

DMS — EXISTING DYNAMIC MESSAGE SIGN

5505 5505 — EXISTING/PROPOSED CISCO ASA5505

IE3000 — EXISTING CISCO IE3000 SWITCH

EXISTING TRAFFIC SIGNAL CONTROLLER

MMU — EXISTING MALFUNCTION MANAGEMENT UNIT

CELL MODEM — EXISTING CELLULAR MODEM

EXISTING WIRELESS ETHERNET BRIDGE

POWER INJECTOR — EXISTING PROJECT INJECTOR

MC — EXISTING MEDIA CONVERTER

FO DATA MODEM — EXISTING FIBER OPTIC DATA MODEM

E10 — 10 MBPS ETHERNET

E100 — 100 MBPS ETHERNET

EXISTING VIDEO DETECTION SYSTEM

VDS AP — EXISTING SENSYS DETECTION SYSTEM

VD — EXISTING IP VIDEO ENCODER

DEVICE SERVER — EXISTING DEVICE SERVER

EXISTING RADAR DETECTION UNIT

MULTIMODE/ SINGLE MODE FIBER OPTIC CABLE

EXISTING WIRELESS CONNECTION

EXISTING/PROPOSED FUSION SPLICE

EXISTING CABLE

PROPOSED CABLE

DSL MODEM — PROPOSED DSL MODEM

NOTE:
1) DASHED LINES INDICATE EXISTING EQUIPMENT OR CABLING.
2) ALL FIBER SPLICES ARE NOT SHOWN FOR CLARITY. SEE SPLICE DIAGRAMS.

STATE OF MISSOURI
CHARLES A. MILLER
NUMBER E-2002000606
REGISTERED PROFESSIONAL ENGINEER
11/21/2025

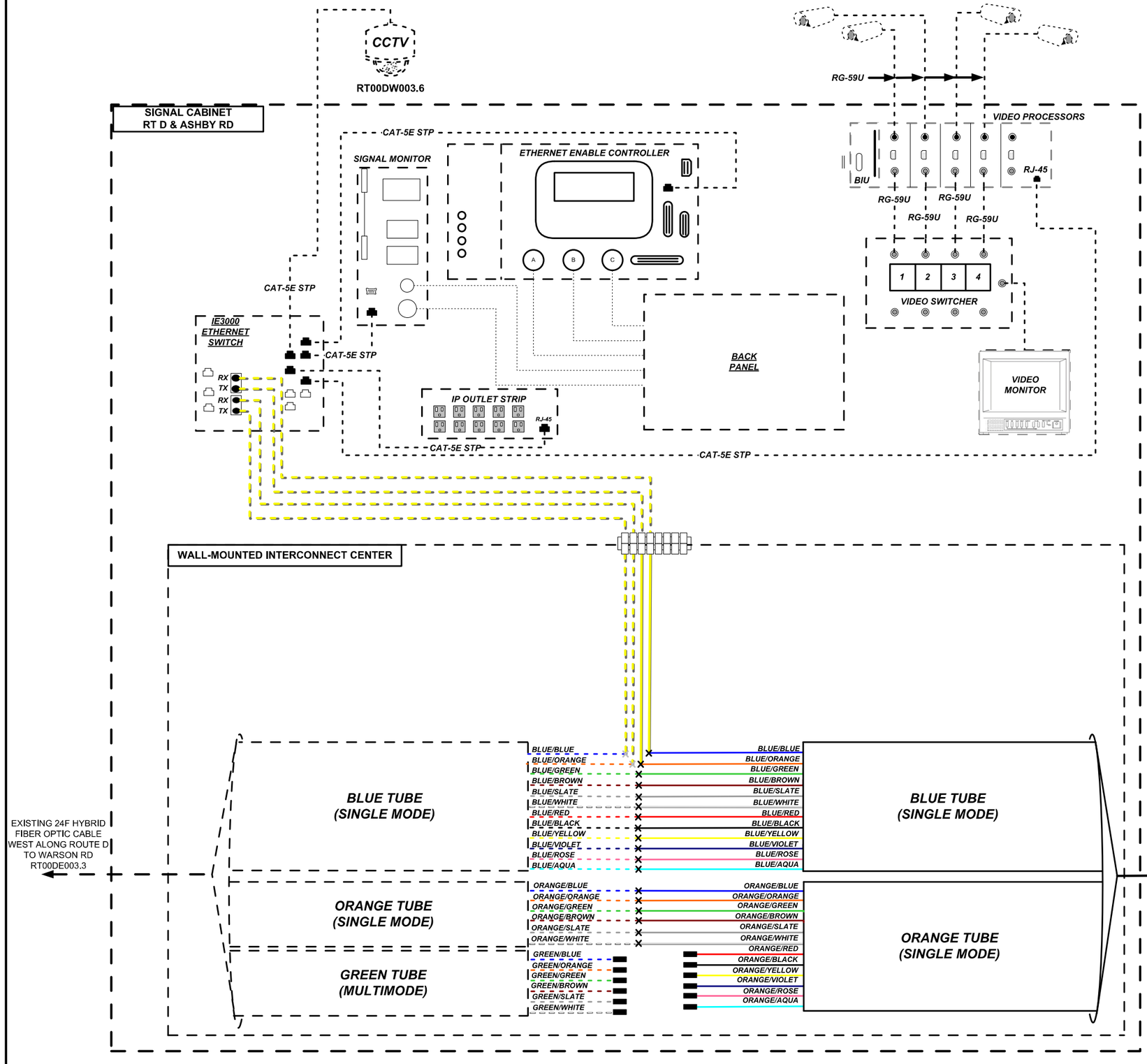
DATE PREPARED: 11/14/2025
ROUTE: D
STATE: MO
DISTRICT: SL
SHEET NO.: 167
COUNTY: ST. LOUIS
JOB NO.: JSL0186
CONTRACT ID.:
PROJECT NO.:
BRIDGE NO.:

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

DESCRIPTION | DATE | REV.

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

HNTB
715 KIRK DRIVE
KANSAS CITY, MO 64105
(816) 472-1201



KEY

MI170N123.4C	DEVICE IDENTIFIER
CCTV	CCTV CAMERA
CCTV	EXISTING CCTV CAMERA
DMS	DYNAMIC MESSAGE SIGN
	RADAR DETECTION UNIT
	SM PATCH THROUGH FIBER OPTIC JUMPER
	SM EQUIPMENT CONNECTION FIBER OPTIC JUMPER
	SM FIBER OPTIC PIGTAIL
	MM PATCH THROUGH FIBER OPTIC JUMPER
	MM EQUIPMENT CONNECTION FIBER OPTIC JUMPER
	MM FIBER OPTIC PIGTAIL
	BARE FIBER LEFT COILED IN SPLICE TRAY
× ×	EXISTING/PROPOSED FUSION SPLICE
	PATCH PANEL MODULE
	WIRELESS LINK
VDS AP	SENSYS DETECTION SYSTEM

1. MAXIMUM SPLICE LOSS SHALL BE 0.1 dB
2. NO INTERMEDIATE SPLICES ALLOWED
3. ALL SPLICES SHALL BE FUSION SPLICES
4. DASHED LINES INDICATE EXISTING EQUIPMENT OR CABLING.

FIBER SPLICING & BLOCK DIAGRAM
RT00DW003.6
ROUTE D & ASHBY RD

SHEET 1 OF 2

STATE OF MISSOURI
CHARLES A. MILLER
NUMBER E-20020806
REGISTERED PROFESSIONAL ENGINEER
11/21/2025

DATE PREPARED: 10/01/2025
ROUTE: D | STATE: MO
DISTRICT: SL | SHEET NO.: 168
COUNTY: ST. LOUIS
JOB NO.: JSL0186
CONTRACT ID.:
PROJECT NO.:
BRIDGE NO.:

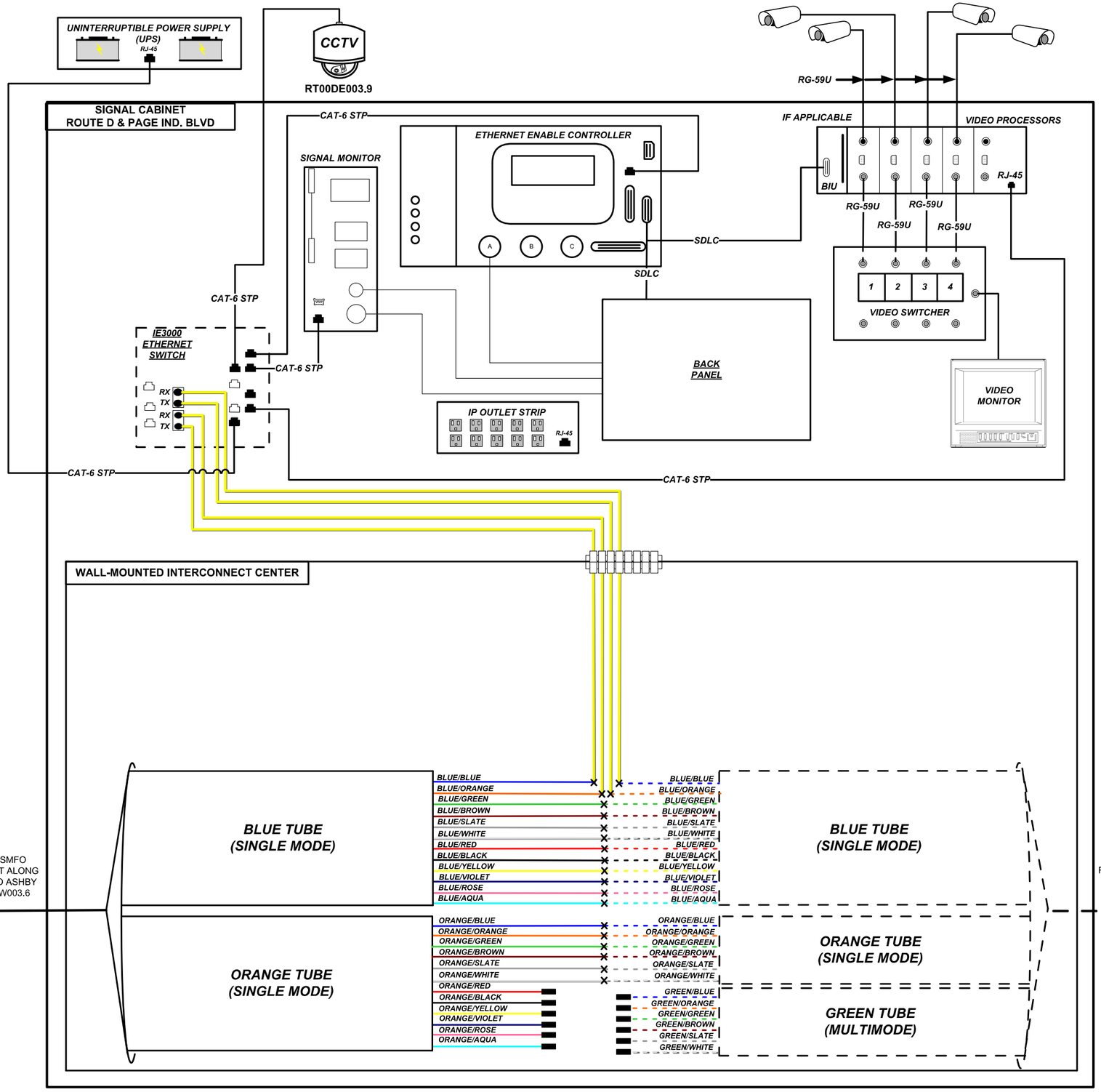
DESCRIPTION | DATE

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

HNTB
715 KIRK DRIVE
KANSAS CITY, MO 64105
(816) 472-1201

REV.



KEY

MI170N123.4C	DEVICE IDENTIFIER
CCTV	CCTV CAMERA
CCTV	EXISTING CCTV CAMERA
DMS	DYNAMIC MESSAGE SIGN
	RADAR DETECTION UNIT
	SM PATCH THROUGH FIBER OPTIC JUMPER
	SM EQUIPMENT CONNECTION FIBER OPTIC JUMPER
	SM FIBER OPTIC PIGTAIL
	MM PATCH THROUGH FIBER OPTIC JUMPER
	MM EQUIPMENT CONNECTION FIBER OPTIC JUMPER
	MM FIBER OPTIC PIGTAIL
	BARE FIBER LEFT COILED IN SPLICE TRAY
× ×	EXISTING/PROPOSED FUSION SPLICE
	PATCH PANEL MODULE
	WIRELESS LINK
VDS AP	SENSYS DETECTION SYSTEM

1. MAXIMUM SPLICE LOSS SHALL BE 0.1 dB
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3. ALL SPLICES SHALL BE FUSION SPLICES
4. DASHED LINES INDICATE EXISTING EQUIPMENT OR CABLING.

FIBER SPLICING & BLOCK DIAGRAM

RT00DE003.9
ROUTE D & PAGE IND. BLVD

SHEET 2 OF 2

STATE OF MISSOURI
CHARLES A. MILLER
NUMBER E-20020080606
REGISTERED PROFESSIONAL ENGINEER
11/21/2025

DATE PREPARED: 10/01/2025
ROUTE: D | STATE: MO
DISTRICT: SL | SHEET NO.: 169
COUNTY: ST. LOUIS
JOB NO.: JSL0186
CONTRACT ID.:
PROJECT NO.:
BRIDGE NO.:

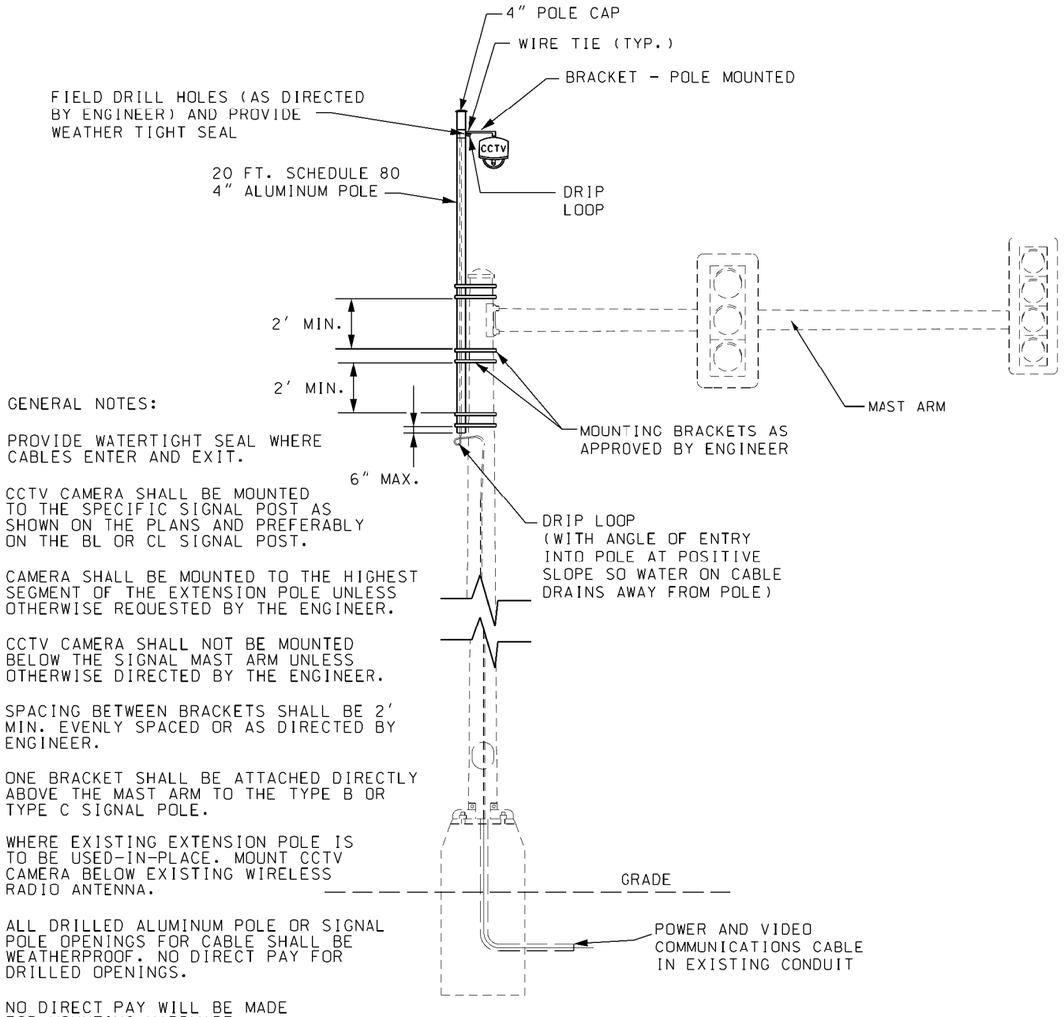
IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

REV.	DESCRIPTION	DATE

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

HNTB
715 KIRK DRIVE
KANSAS CITY, MO 64105
(816) 472-1201

SL0186_BlockSplice_v2.vsdx 10/01/2025



GENERAL NOTES:

PROVIDE WATERTIGHT SEAL WHERE CABLES ENTER AND EXIT.

CCTV CAMERA SHALL BE MOUNTED TO THE SPECIFIC SIGNAL POST AS SHOWN ON THE PLANS AND PREFERABLY ON THE BL OR CL SIGNAL POST.

CAMERA SHALL BE MOUNTED TO THE HIGHEST SEGMENT OF THE EXTENSION POLE UNLESS OTHERWISE REQUESTED BY THE ENGINEER.

CCTV CAMERA SHALL NOT BE MOUNTED BELOW THE SIGNAL MAST ARM UNLESS OTHERWISE DIRECTED BY THE ENGINEER.

SPACING BETWEEN BRACKETS SHALL BE 2' MIN. EVENLY SPACED OR AS DIRECTED BY ENGINEER.

ONE BRACKET SHALL BE ATTACHED DIRECTLY ABOVE THE MAST ARM TO THE TYPE B OR TYPE C SIGNAL POLE.

WHERE EXISTING EXTENSION POLE IS TO BE USED-IN-PLACE. MOUNT CCTV CAMERA BELOW EXISTING WIRELESS RADIO ANTENNA.

ALL DRILLED ALUMINUM POLE OR SIGNAL POLE OPENINGS FOR CABLE SHALL BE WEATHERPROOF. NO DIRECT PAY FOR DRILLED OPENINGS.

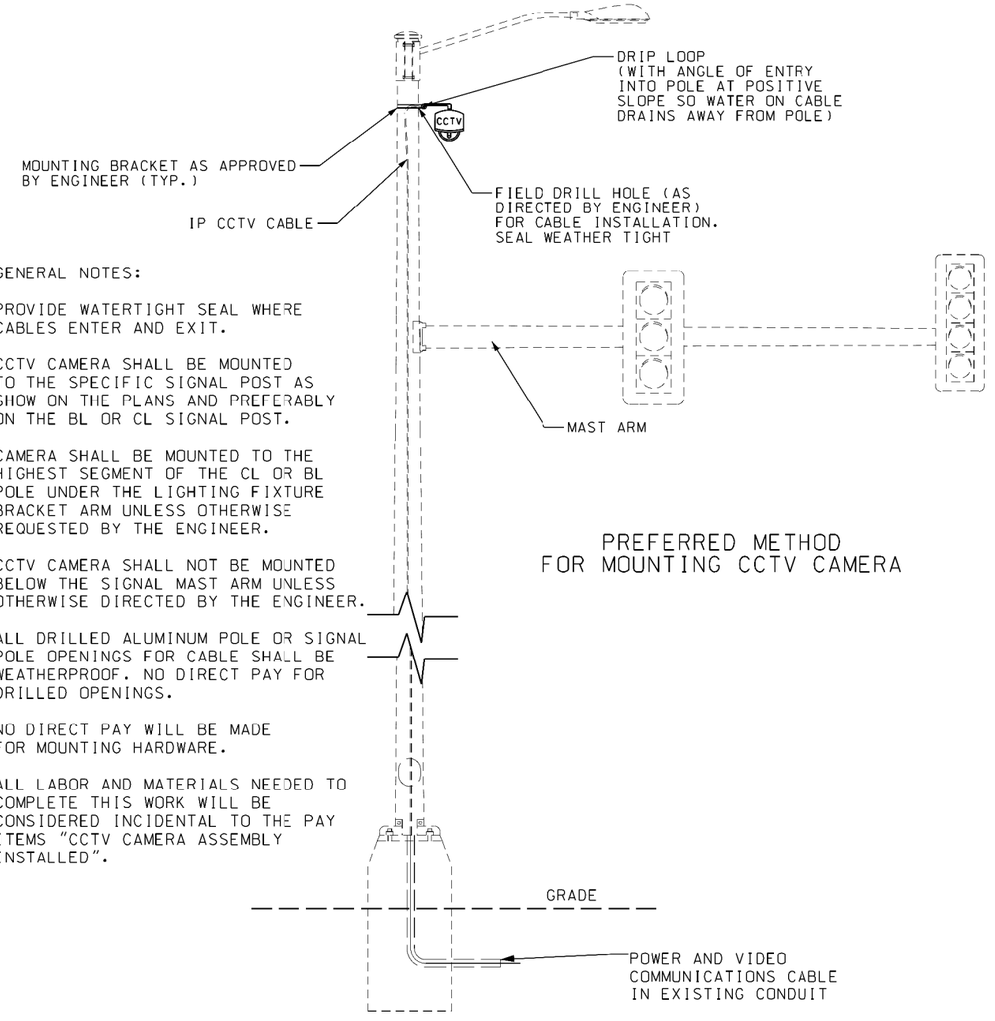
NO DIRECT PAY WILL BE MADE FOR MOUNTING HARDWARE.

ALL LABOR AND MATERIALS NEEDED TO COMPLETE THIS WORK WILL BE CONSIDERED INCIDENTAL TO THE PAY ITEMS "CCTV CAMERA ASSEMBLY INSTALLED".

NOT TO SCALE

CCTV MOUNTING ON NEW OR EXISTING C OR B SIGNAL POST WITH EXTENSION POLE

REVISED 6-06-2024



GENERAL NOTES:

PROVIDE WATERTIGHT SEAL WHERE CABLES ENTER AND EXIT.

CCTV CAMERA SHALL BE MOUNTED TO THE SPECIFIC SIGNAL POST AS SHOW ON THE PLANS AND PREFERABLY ON THE BL OR CL SIGNAL POST.

CAMERA SHALL BE MOUNTED TO THE HIGHEST SEGMENT OF THE CL OR BL POLE UNDER THE LIGHTING FIXTURE BRACKET ARM UNLESS OTHERWISE REQUESTED BY THE ENGINEER.

CCTV CAMERA SHALL NOT BE MOUNTED BELOW THE SIGNAL MAST ARM UNLESS OTHERWISE DIRECTED BY THE ENGINEER.

ALL DRILLED ALUMINUM POLE OR SIGNAL POLE OPENINGS FOR CABLE SHALL BE WEATHERPROOF. NO DIRECT PAY FOR DRILLED OPENINGS.

NO DIRECT PAY WILL BE MADE FOR MOUNTING HARDWARE.

ALL LABOR AND MATERIALS NEEDED TO COMPLETE THIS WORK WILL BE CONSIDERED INCIDENTAL TO THE PAY ITEMS "CCTV CAMERA ASSEMBLY INSTALLED".

NOT TO SCALE

PREFERRED METHOD FOR MOUNTING CCTV CAMERA

CCTV MOUNTING ON NEW OR EXISTING CL OR BL SIGNAL POST WITH LUMINAIRE

ROUTE AC ITS DETAIL
SHEET 01 OF 02

ALLISON M. BRUNER NUMBER PE-2019005896
PROFESSIONAL ENGINEER — STATE OF MISSOURI

THIS SHEET HAS BEEN SIGNED, SEALED, AND DATED ELECTRONICALLY

Digitally signed by Allison Bruner
Date: 2025.12.19 09:38:50-06'00'

DATE PREPARED	
12/17/2025	
ROUTE: D	STATE: MO
DISTRICT: SL	SHEET NO.: 170
COUNTY: ST. LOUIS	
JOB NO.: JSL0186	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

DESCRIPTION	DATE

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

Burns & McDonnell Engineering Co., Inc.
425 South Woods Mill Road
Chesterfield, Missouri 63017
314-682-1500
BURNS McDONNELL
Certificate of Authority
No. : 000165
BMcD Project No. 170361

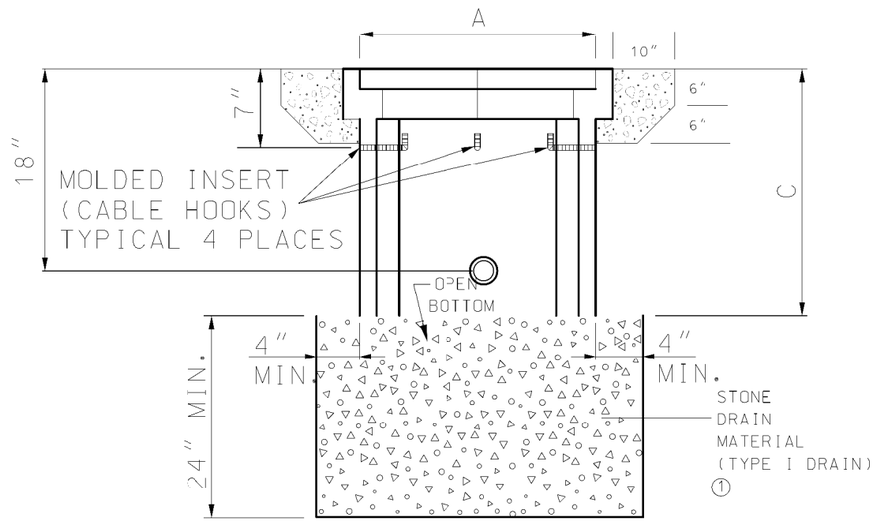
REV.

MSD BASE MAPS: 15L, 15M, 16K, 16L MSD PREMIT NUMBER: 25MSD-00026

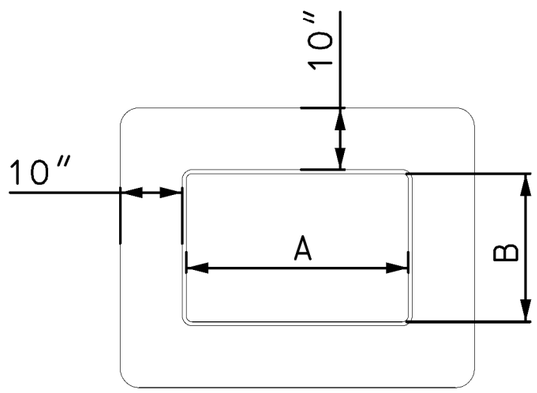
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ITS PULL BOXES WITH CONCRETE PADS

CLASS 2 ITS PULLBOX WITH CONCRETE PAD



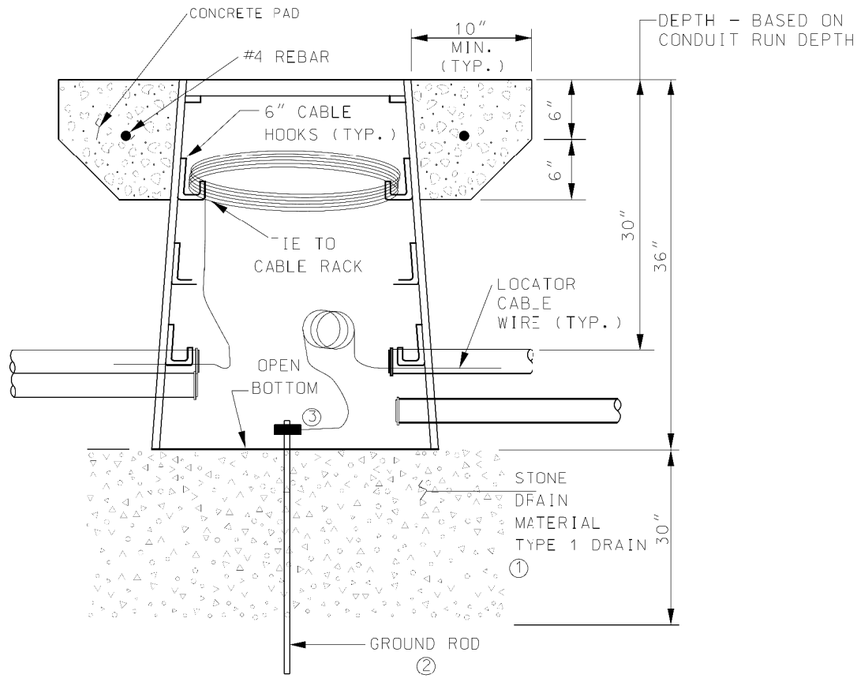
ELEVATION



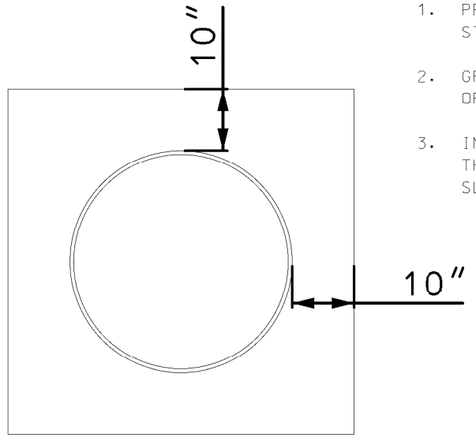
PLAN

FOR PULL BOX DIMENSIONS SEE STANDARD PLAN 902.20

CLASS 5 ITS PULLBOX WITH CONCRETE PAD



ELEVATION



PLAN

1. PROVIDE TYPE II DRAIN AS DIRECTED BY ENGINEER. SEE STANDARD PLAN 902.20 FOR TYPE II DRAIN DETAILS.
2. GROUND ROD ONLY REQUIRED IN PULL BOX NEAREST TO AN ITS OR SIGNAL CABINET.
3. IN THE PULL BOX NEAREST THE ITS OR SIGNAL CABINET, CONNECT THE TRACER WIRE TO A GROUND ROD CLAMP AND PROVIDE 5 FEET OF SLACK.

DISCLAIMER
THE PROFESSIONAL WHOSE SIGNATURE AND PERSONAL SEAL APPEAR HEREON ASSUMES RESPONSIBILITY ONLY FOR WHAT APPEARS ON THIS PAGE, AND DISCLAIMS (PURSUANT TO SECTION 327.411 RSMO) SPECIFICATION, ESTIMATES, REPORTS, OR OTHER DOCUMENTS OR INSTRUMENTS NOT SEALED BY THE UNDERSIGNED PROFESSIONAL RELATING TO OR INTENDED TO BE USED FOR ANY PART OR PARTS OF THE PROJECT TO WHICH THIS PAGE REFERS.

ROUTE AC ITS DETAIL
SHEET 02 OF 02

STATE OF MISSOURI
ALLISON M. BRUNER
NUMBER PE-2019005896
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED, AND DATED ELECTRONICALLY
Digitally signed by Allison Bruner
Date: 2025.12.19 09:38:51-06'00'

DATE PREPARED 12/17/2025

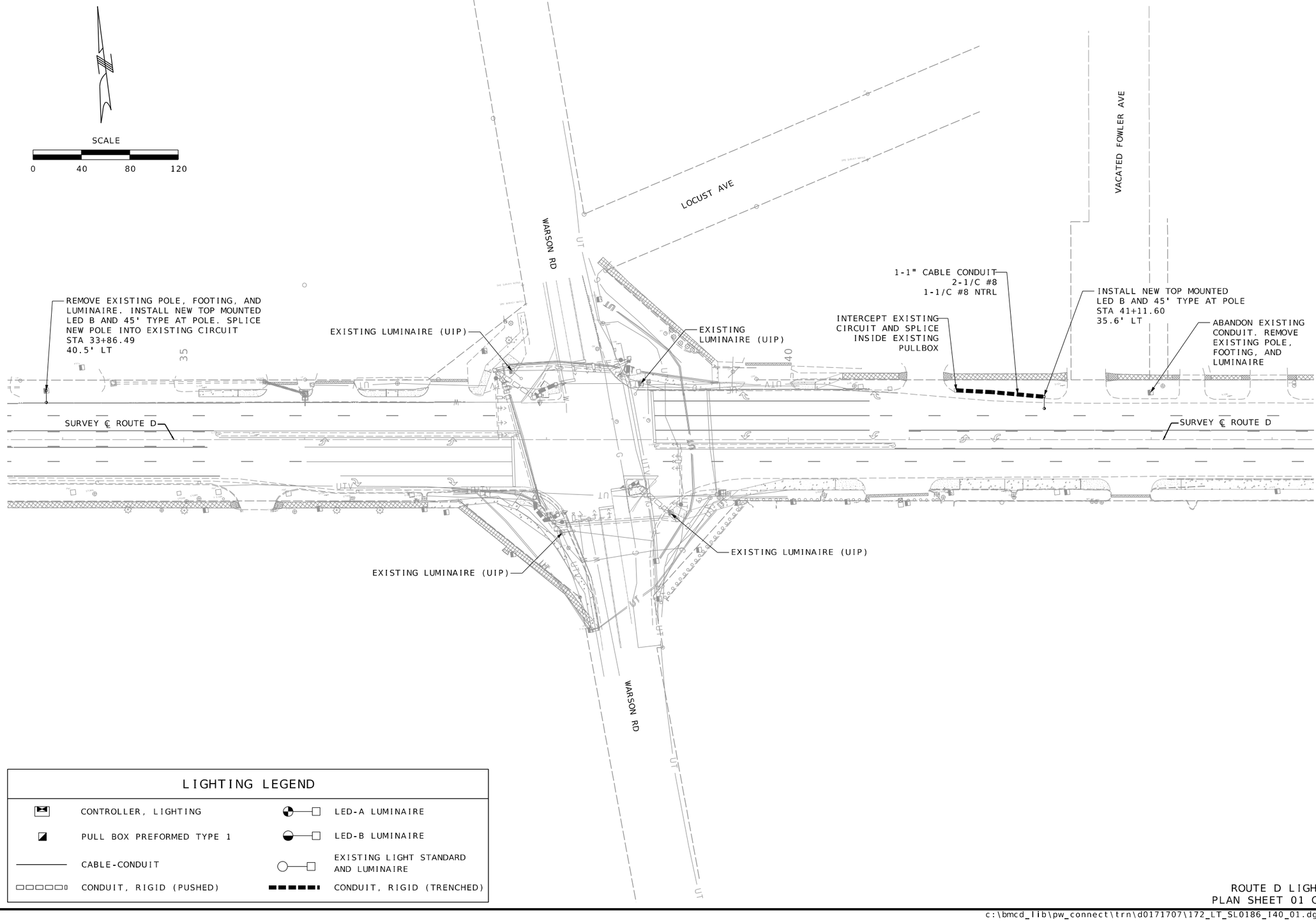
ROUTE	STATE
D	MO
DISTRICT	SHEET NO.
SL	171

COUNTY: ST. LOUIS
JOB NO.: JSL0186
CONTRACT ID.:
PROJECT NO.:
BRIDGE NO.:

NO.	DESCRIPTION	DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)
Burns & McDonnell Engineering Co., Inc.
425 South Woods Mill Road
Chesterfield, Missouri 63017
314-682-1500
Certificate of Authority
No. : 000165
BMcD Project No. 170361

REV.



ROUTE D LIGHTING
PLAN SHEET 01 OF 05

STATE OF MISSOURI
JOSHUA D HARTMAN
NUMBER PE-2025032518
PROFESSIONAL ENGINEER
Joshua Hartman
Digitally signed by Joshua Hartman
Date: 2025.12.17 09:57:21 -06'00'

DATE PREPARED
12/17/2025

ROUTE	STATE
D	MO
DISTRICT	SHEET NO.
SL	172

COUNTY
ST. LOUIS

JOB NO.
JSL0186

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)

Burns & McDonnell Engineering Co., Inc.
425 South Woods Mill Road
Chesterfield, Missouri 63017
314-682-1500
Certificate of Authority
No. : 000165
BMcD Project No. 170361

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SCALE

0 40 80 120

3" PVC CONDUIT PUSHED
2-1/C #8
1-1/C #8 NTRL

INSTALL NEW TOP MOUNTED LED A AND 30' TYPE AT POLE
STA 47+15.23
35.0' LT

ABANDON EXISTING CONDUIT. REMOVE EXISTING POLE, FOOTING, AND LUMINAIRE

CONTRACTOR TO FIND EXISTING CIRCUIT FOR REMOVED LUMINAIRE (~STA 46+60) IN EXISTING PULLBOX AND SPLICE INTO NEW POLE AND LUMINAIRE

EXISTING DUSK TO DAWN LUMINAIRE ON POWER POLE (UIP)

3" PVC CONDUIT PUSHED
2-1/C #8
1-1/C #8 NTRL

EXISTING DUSK TO DAWN LUMINAIRE ON POWER POLE (UIP)

INSTALL NEW CLASS 1 PREFORMED PULLBOX
STA 51+49.29
47.3' LT

EXISTING DUSK TO DAWN LUMINAIRE ON POWER POLE (UIP)

3" PVC CONDUIT PUSHED
2-1/C #8
1-1/C #8 NTRL

INSTALL NEW TOP MOUNTED LED A AND 30' POLE
STA 54+18.74
34.4' LT

COORDINATE WITH UTILITY TO REMOVE EXISTING LUMINAIRE IF MODOT "OWNED"

ASHBY RD

SURVEY ℄ ROUTE D

SURVEY ℄ ROUTE D

EXISTING DUSK TO DAWN LUMINAIRE ON POWER POLE (UIP)

EXISTING DUSK TO DAWN LUMINAIRE ON POWER POLE (UIP)

ASHBY RD

LIGHTING LEGEND

	CONTROLLER, LIGHTING		LED-A LUMINAIRE
	PULL BOX PREFORMED TYPE 1		LED-B LUMINAIRE
	CABLE-CONDUIT		EXISTING LIGHT STANDARD AND LUMINAIRE
	CONDUIT, RIGID (PUSHED)		CONDUIT, RIGID (TRENCHED)

ROUTE D LIGHTING
PLAN SHEET 02 OF 05

STATE OF MISSOURI
JOSHUA D HARTMAN
NUMBER PE-2025032518
PROFESSIONAL ENGINEER

Joshua Hartman

DATE PREPARED
12/17/2025

ROUTE	STATE
D	MO
DISTRICT	SHEET NO.
SL	173

COUNTY
ST. LOUIS

JOB NO.
JSL0186

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION

DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

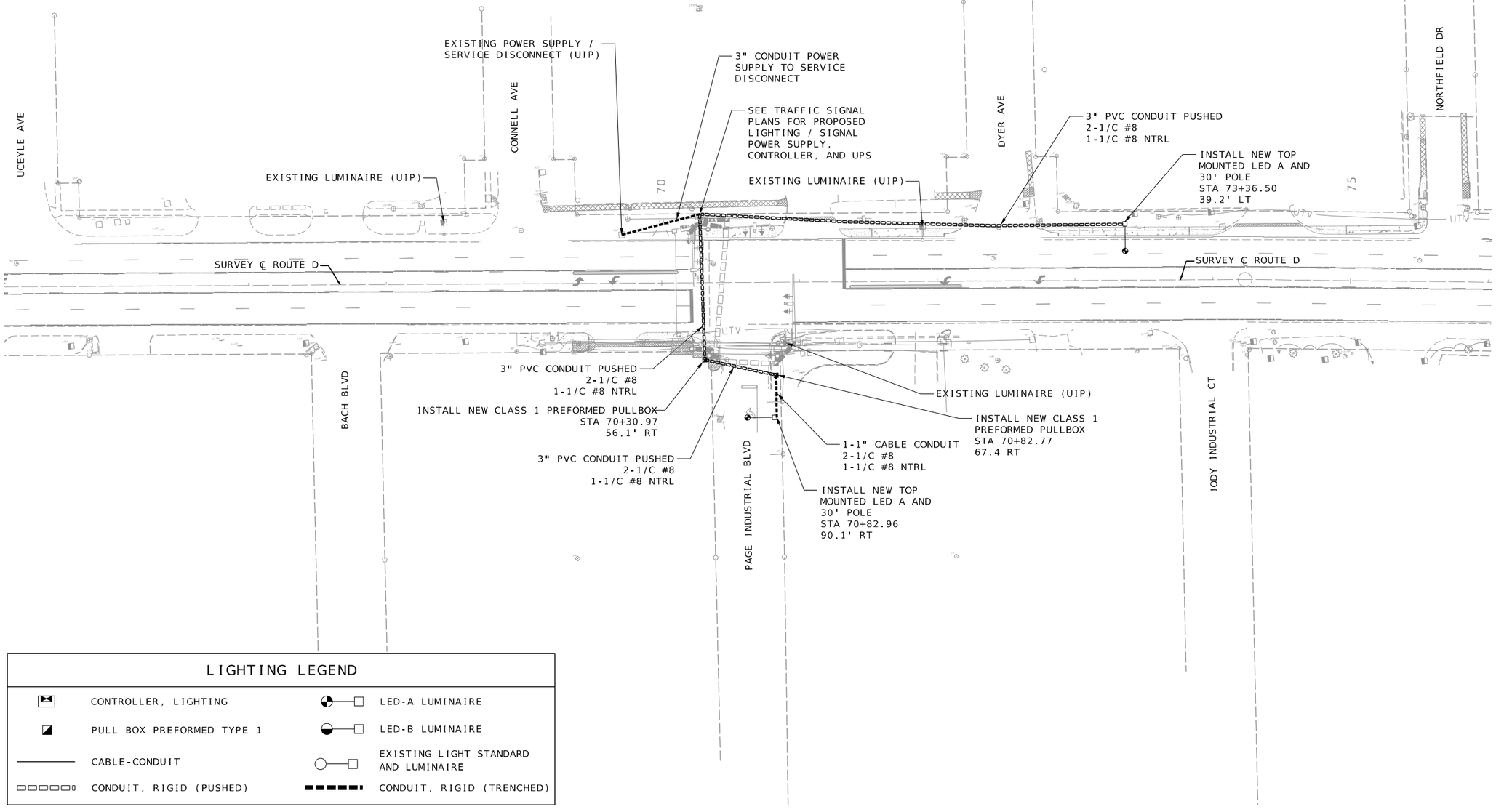
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

Burns & McDonnell Engineering Co., Inc.
425 South Woods Mill Road
Chesterfield, Missouri 63017
314-682-1500
Certificate of Authority
No. : 000165
BMcD Project No. 170361

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SCALE

0 40 80 120



LIGHTING LEGEND

	CONTROLLER, LIGHTING		LED-A LUMINAIRE
	PULL BOX PREFORMED TYPE 1		LED-B LUMINAIRE
	CABLE-CONDUIT		EXISTING LIGHT STANDARD AND LUMINAIRE
	CONDUIT, RIGID (PUSHED)		CONDUIT, RIGID (TRENCHED)

ROUTE D LIGHTING
PLAN SHEET 03 OF 05

STATE OF MISSOURI
JOSHUA D HARTMAN
NUMBER PE-2025032518
PROFESSIONAL ENGINEER

Joshua Hartman

DATE PREPARED
12/18/2025

ROUTE	STATE
D	MO
DISTRICT	SHEET NO.
SL	174

COUNTY
ST. LOUIS

JOB NO.
JSL0186

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION	DATE

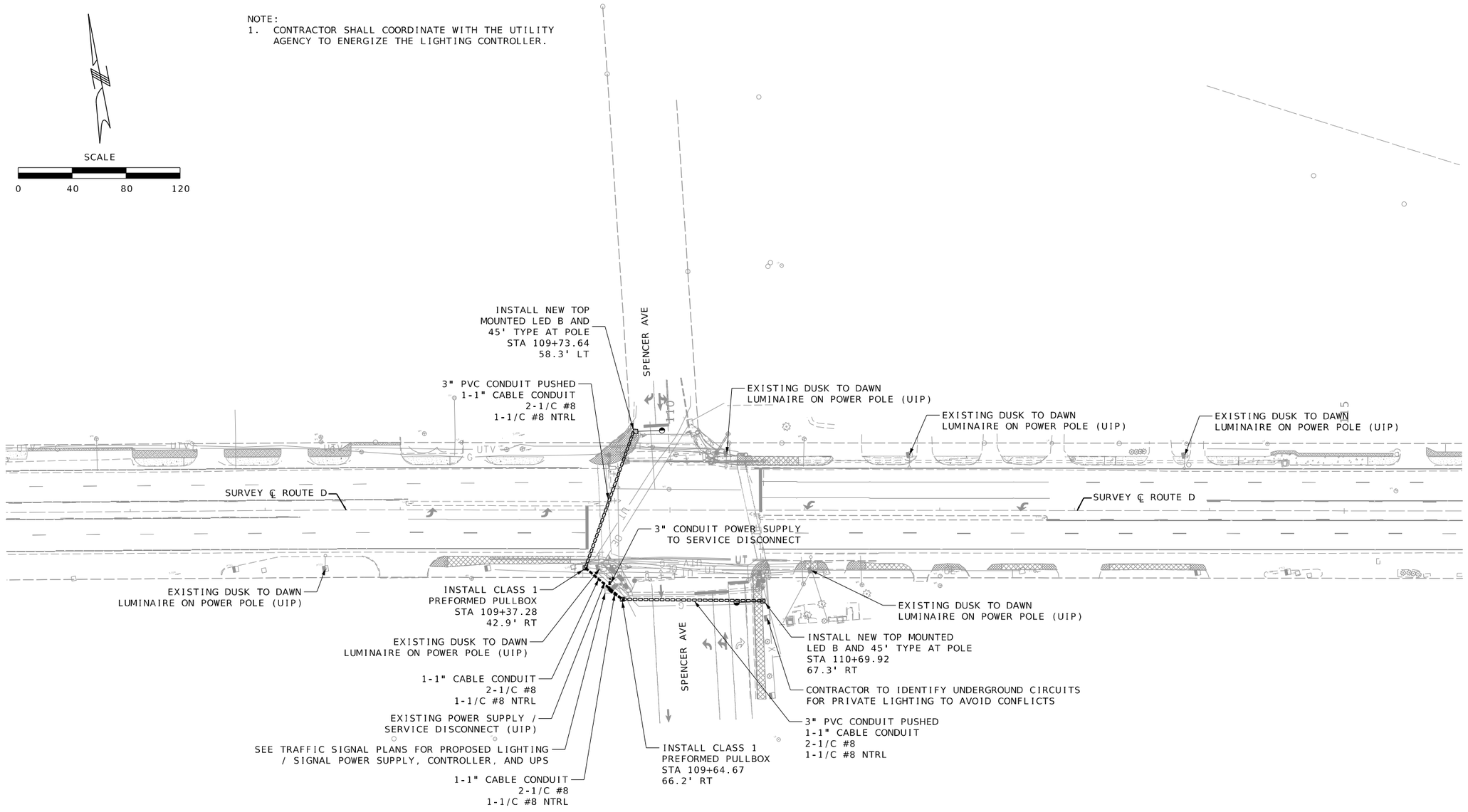
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

Burns & McDonnell Engineering Co., Inc.
425 South Woods Mill Road
Chesterfield, Missouri 63017
314-682-1500
Certificate of Authority
No. : 000165
BMcD Project No. 170361

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NOTE:
1. CONTRACTOR SHALL COORDINATE WITH THE UTILITY AGENCY TO ENERGIZE THE LIGHTING CONTROLLER.

SCALE
0 40 80 120



LIGHTING LEGEND

	CONTROLLER, LIGHTING		LED-A LUMINAIRE
	PULL BOX PREFORMED TYPE 1		LED-B LUMINAIRE
	CABLE-CONDUIT		EXISTING LIGHT STANDARD AND LUMINAIRE
	CONDUIT, RIGID (PUSHED)		CONDUIT, RIGID (TRENCHED)

ROUTE D LIGHTING
PLAN SHEET 04 OF 05

STATE OF MISSOURI
JOSHUA D HARTMAN
NUMBER PE-2025032518
PROFESSIONAL ENGINEER
Joshua Hartman

DATE PREPARED
12/17/2025

ROUTE	STATE
D	MO
DISTRICT	SHEET NO.
SL	175

COUNTY
ST. LOUIS

JOB NO.
JSL0186

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)

Burns & McDonnell Engineering Co., Inc.
425 South Woods Mill Road
Chesterfield, Missouri 63017
314-682-1500
Certificate of Authority
No. : 000165
BMcD Project No. 170361

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SCALE

0 40 80 120

EXISTING DUSK TO DAWN LUMINAIRE ON POWER POLE (UIP)

WOODSON RD

EXISTING DUSK TO DAWN LUMINAIRE ON POWER POLE (UIP)

COORDINATE WITH UTILITY TO REMOVE EXISTING LUMINAIRE IF MODOT "OWNED"

COORDINATE WITH UTILITY TO INSTALL UTILITY'S EQUIVALENT LED B LUMINAIRE (14,000 LUMENS) TO A NEW WOOD UTILITY POLE WITH A 15' BRACKET ARM, LOCATED A MAXIMUM OF 150' EAST OF THE RAISED MEDIAN NOSE. SUBSIDIARY TO OTHER LIGHTING ITEMS.

EXISTING DUSK TO DAWN LUMINAIRE ON POWER POLE (UIP)

EXISTING DUSK TO DAWN LUMINAIRE ON POWER POLE (UIP)

EXISTING DUSK TO DAWN LUMINAIRE ON POWER POLE (UIP)

SURVEY ℄ ROUTE D

SURVEY ℄ ROUTE D

EXISTING DUSK TO DAWN LUMINAIRE ON POWER POLE (UIP)

EXISTING DUSK TO DAWN LUMINAIRE ON POWER POLE (UIP)

EXISTING DUSK TO DAWN LUMINAIRE ON POWER POLE (UIP)

EXISTING DUSK TO DAWN LUMINAIRE ON POWER POLE (UIP)

EXISTING DUSK TO DAWN LUMINAIRE ON POWER POLE (UIP)

EXISTING DUSK TO DAWN LUMINAIRE ON POWER POLE (UIP)

EXISTING DUSK TO DAWN LUMINAIRE ON POWER POLE (UIP)

WOODSON RD

COORDINATE WITH UTILITY TO INSTALL UTILITIES EQUIVALENT LED B LUMINAIRE (14,000 LUMENS) TO THIER EXISTING WOOD UTILITY POLE LOCATED APPROXIMATELY 50' SOUTH OF THE RAISED MEDIAN NOSE. SUBSIDIARY TO OTHER LIGHTING ITEMS.

LIGHTING LEGEND

	CONTROLLER, LIGHTING		LED-A LUMINAIRE
	PULL BOX PREFORMED TYPE 1		LED-B LUMINAIRE
	CABLE-CONDUIT		EXISTING LIGHT STANDARD AND LUMINAIRE
	CONDUIT, RIGID (PUSHED)		CONDUIT, RIGID (TRENCHED)

ROUTE D LIGHTING
PLAN SHEET 05 OF 05

STATE OF MISSOURI
JOSHUA D HARTMAN
NUMBER PE-2025032518
PROFESSIONAL ENGINEER

Joshua Hartman

DATE PREPARED
12/17/2025

ROUTE	STATE
D	MO
DISTRICT	SHEET NO.
SL	176

COUNTY
ST. LOUIS

JOB NO.
JSL0186

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)

Burns & McDonnell Engineering Co., Inc.
425 South Woods Mill Road
Chesterfield, Missouri 63017
314-682-1500
Certificate of Authority
No. : 000165
BMcD Project No. 170361

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QUANTITIES TABLE			
ITEM NO.	ITEM	UNIT	QUANTITY
9013003	CONDUIT, 3 IN. RIGID, IN TRENCH	LF	107
9014003	CONDUIT, 3 IN. RIGID, PUSHED	LF	1444
9015010	TRENCHING TYPE I	LF	69
9016110	PULL BOX, PREFORMED CLASS 1	EA	5
9017006	CABLE, 6 AWG 1 CONDUCTOR	LF	320
9017110	CABLE, 10 AWG 1 CONDUCTOR, POLE AND BRACKET	LF	680
9017407	CABLE-CONDUIT, 1 IN., 2 CONDUCTORS AND 1 BARE NEUTRAL, 8 AWG	LF	1635
9018230	POLE FOUNDATION (30 FT. OR 9.0 M MOUNTING HEIGHT)	EA	4
9018245	POLE FOUNDATION (45 FT. OR 13.5 M MOUNTING HEIGHT)	EA	4
9019902	45 FT. TOP MOUNT LIGHT POLE	EA	4
9019902	30 FT. TOP MOUNT LIGHT POLE	EA	4
9019902	170W TOP MOUNTED LED-B LUMINAIRE	EA	4
9019902	170W TOP MOUNTED LED-A LUMINAIRE	EA	4

ROUTE D LIGHTING
QUANTITIES 01 OF 01

STATE OF MISSOURI
JOSHUA D HARTMAN
NUMBER PE-2025032518
PROFESSIONAL ENGINEER
Joshua Hartman

DATE PREPARED
12/17/2025

ROUTE	STATE
D	MO
DISTRICT	SHEET NO.
SL	177

COUNTY
ST. LOUIS

JOB NO.
JSL0186

CONTRACT ID.

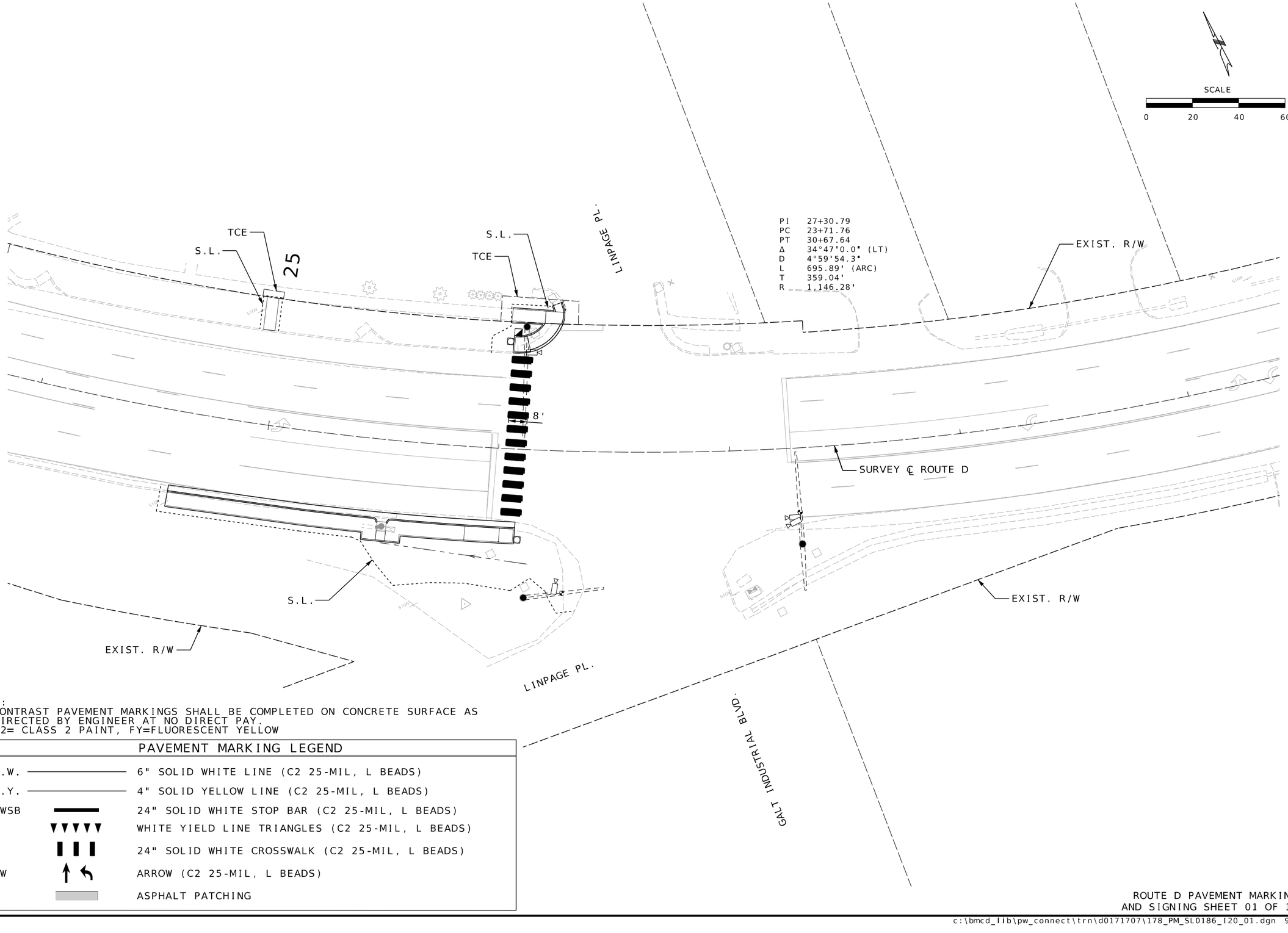
PROJECT NO.

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MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
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Burns & McDonnell Engineering Co., Inc.
425 South Woods Mill Road
Chesterfield, Missouri 63017
314-682-1500
Certificate of Authority
No. : 000165
BMcD Project No. 170361



NOTE:
1. CONTRAST PAVEMENT MARKINGS SHALL BE COMPLETED ON CONCRETE SURFACE AS DIRECTED BY ENGINEER AT NO DIRECT PAY.
2. C2= CLASS 2 PAINT, FY=FLUORESCENT YELLOW

PAVEMENT MARKING LEGEND

6" S.W.	———	6" SOLID WHITE LINE (C2 25-MIL, L BEADS)
4" S.Y.	———	4" SOLID YELLOW LINE (C2 25-MIL, L BEADS)
24" WSB	▬	24" SOLID WHITE STOP BAR (C2 25-MIL, L BEADS)
	▼▼▼▼▼	WHITE YIELD LINE TRIANGLES (C2 25-MIL, L BEADS)
	▌▌▌	24" SOLID WHITE CROSSWALK (C2 25-MIL, L BEADS)
ARROW	↑↰	ARROW (C2 25-MIL, L BEADS)
	▭	ASPHALT PATCHING

ROUTE D PAVEMENT MARKING
AND SIGNING SHEET 01 OF 12

ALLISON M. BRUNER
NUMBER PE-2019005896
STATE OF MISSOURI
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED, AND DATED ELECTRONICALLY

Digitally signed by Allison Bruner
Date: 2025.12.19 09:38:51-06'00'

DATE PREPARED
12/17/2025

ROUTE	STATE
D	MO
DISTRICT	SHEET NO.
SL	178

COUNTY
ST. LOUIS

JOB NO.
JSL0186

CONTRACT ID.

PROJECT NO.

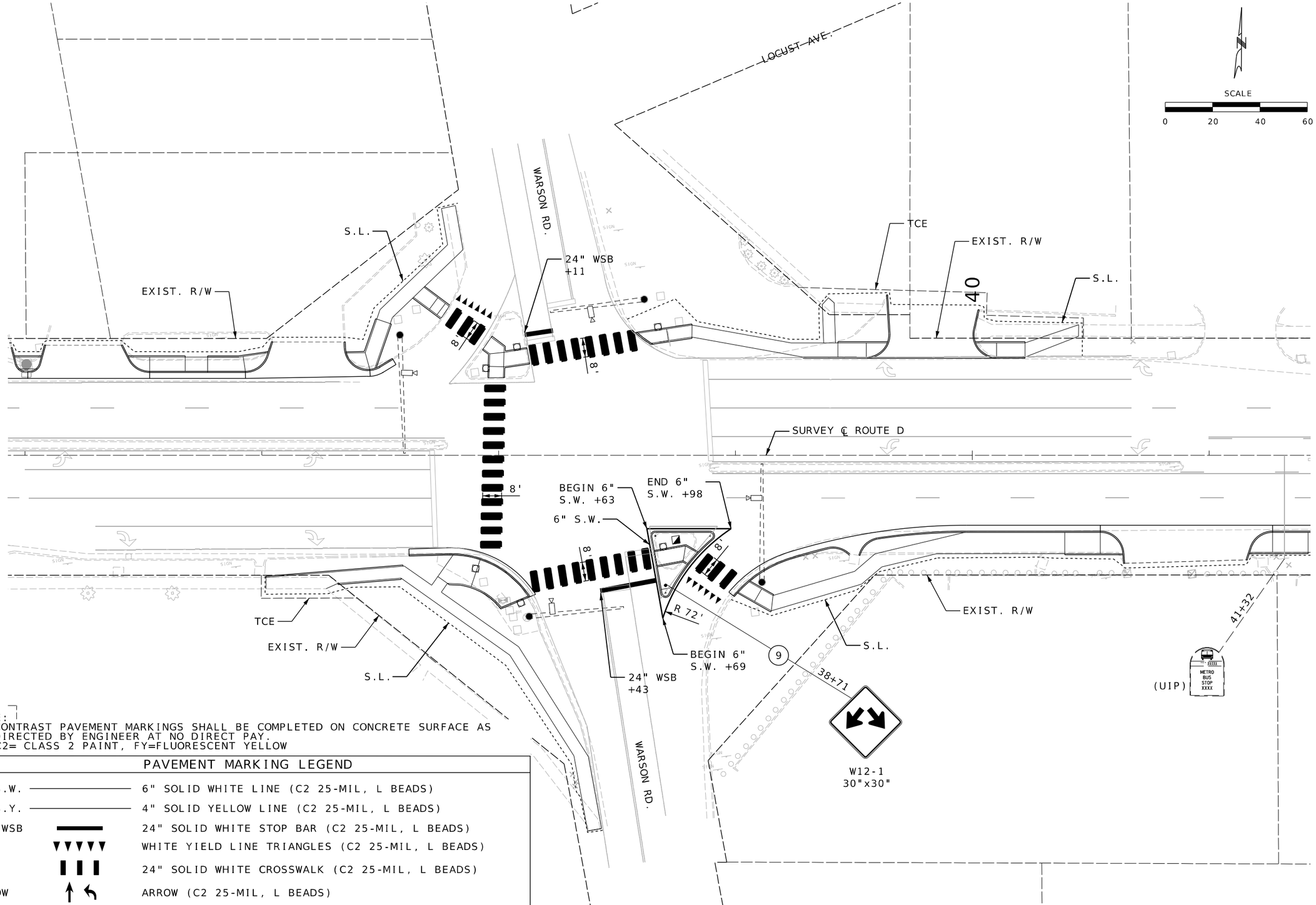
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NOTE:
1. CONTRAST PAVEMENT MARKINGS SHALL BE COMPLETED ON CONCRETE SURFACE AS DIRECTED BY ENGINEER AT NO DIRECT PAY.
2. C2= CLASS 2 PAINT, FY=FLUORESCENT YELLOW

PAVEMENT MARKING LEGEND

6" S.W.	———	6" SOLID WHITE LINE (C2 25-MIL, L BEADS)
4" S.Y.	———	4" SOLID YELLOW LINE (C2 25-MIL, L BEADS)
24" WSB	▬	24" SOLID WHITE STOP BAR (C2 25-MIL, L BEADS)
	▼▼▼▼▼	WHITE YIELD LINE TRIANGLES (C2 25-MIL, L BEADS)
	▮▮▮	24" SOLID WHITE CROSSWALK (C2 25-MIL, L BEADS)
ARROW	↑ ↰	ARROW (C2 25-MIL, L BEADS)
	▭	ASPHALT PATCHING

ROUTE D PAVEMENT MARKING
AND SIGNING SHEET 02 OF 12

STATE OF MISSOURI
ALLISON M. BRUNER
NUMBER PE-2019005896
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED, AND DATED ELECTRONICALLY

Digitally signed by Allison Bruner
Date: 2025.12.19 09:38:51-06'00'

DATE PREPARED
12/17/2025

ROUTE	STATE
D	MO
DISTRICT	SHEET NO.
SL	179

COUNTY
ST. LOUIS

JOB NO.
JSL0186

CONTRACT ID.

PROJECT NO.

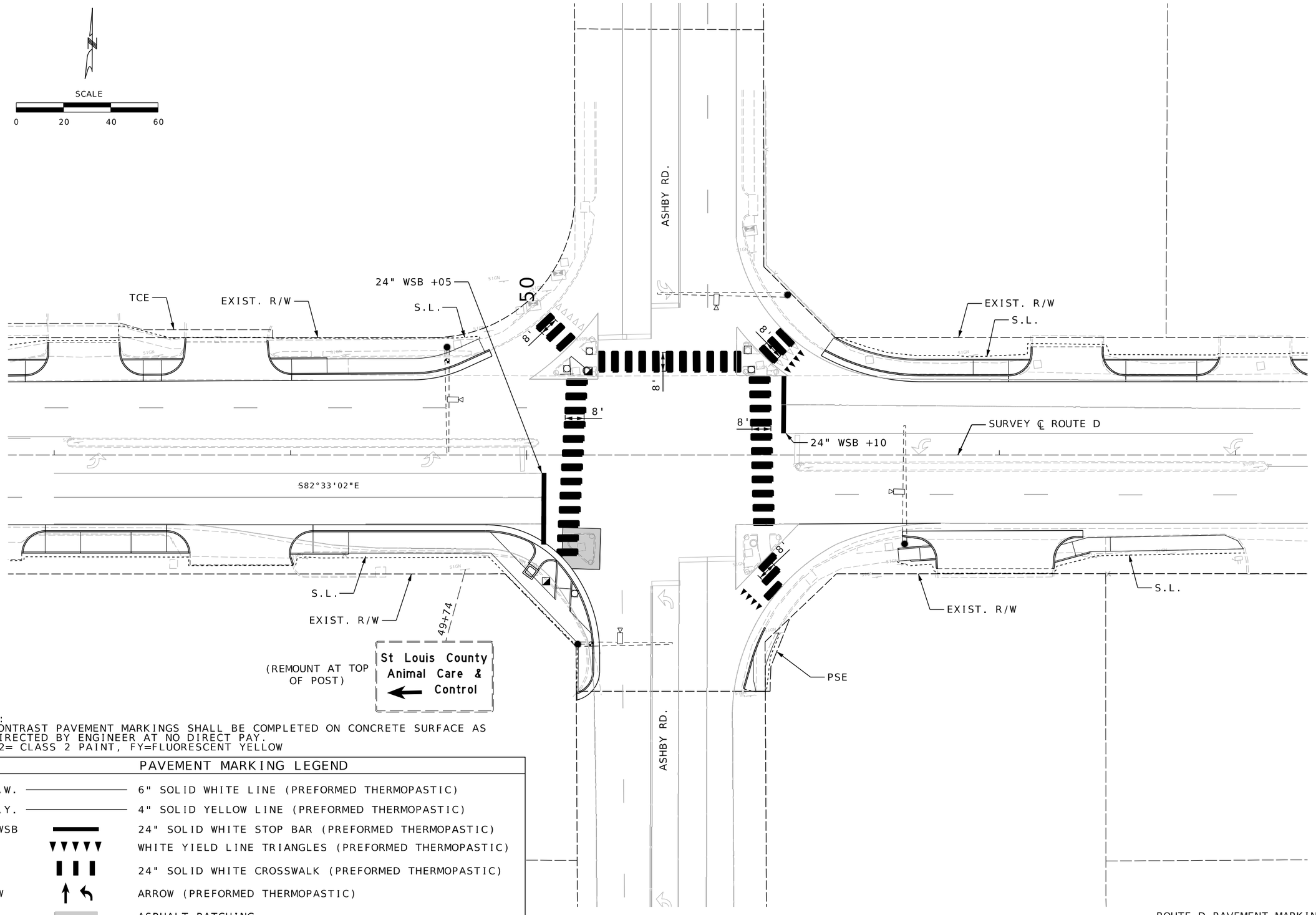
BRIDGE NO.

DESCRIPTION	DATE

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

Burns & McDonnell Engineering Co., Inc.
425 South Woods Mill Road
Chesterfield, Missouri 63017
314-682-1500
Certificate of Authority
No. : 000165
BMcD Project No. 170361

c:\bmcd_lib\pw_connect\trn\d0171707\179_PM_SL0186_I20_02.dgn 9:59:34 AM 12/17/2025



NOTE:
1. CONTRAST PAVEMENT MARKINGS SHALL BE COMPLETED ON CONCRETE SURFACE AS DIRECTED BY ENGINEER AT NO DIRECT PAY.
2. C2= CLASS 2 PAINT, FY=FLUORESCENT YELLOW

PAVEMENT MARKING LEGEND

6" S.W.	———	6" SOLID WHITE LINE (PREFORMED THERMOPASTIC)
4" S.Y.	———	4" SOLID YELLOW LINE (PREFORMED THERMOPASTIC)
24" WSB	▬	24" SOLID WHITE STOP BAR (PREFORMED THERMOPASTIC)
	▼▼▼▼▼	WHITE YIELD LINE TRIANGLES (PREFORMED THERMOPASTIC)
	▌▌▌	24" SOLID WHITE CROSSWALK (PREFORMED THERMOPASTIC)
ARROW	↑↰	ARROW (PREFORMED THERMOPASTIC)
	▭	ASPHALT PATCHING

ROUTE D PAVEMENT MARKING AND SIGNING SHEET 03 OF 12

ALLISON M. BRUNER NUMBER PE-2019005896
STATE OF MISSOURI PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED, AND DATED ELECTRONICALLY
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Date: 2025.12.19 09:38:51-06'00'

DATE PREPARED: 12/17/2025

ROUTE	STATE
D	MO
DISTRICT	SHEET NO.
SL	180

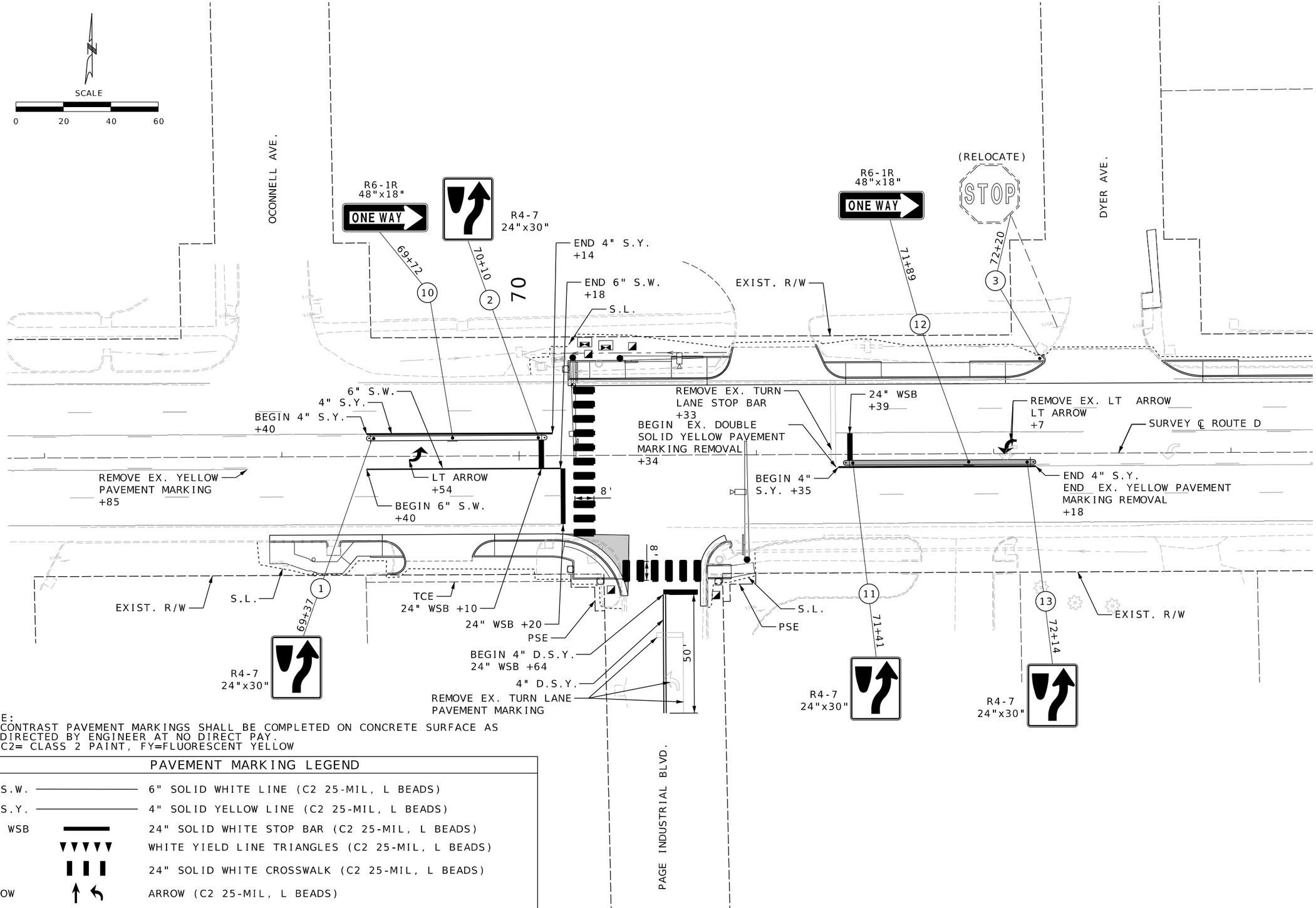
COUNTY: ST. LOUIS
JOB NO.: JSL0186
CONTRACT ID.:
PROJECT NO.:
BRIDGE NO.:

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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314-682-1500
Certificate of Authority No. : 000165
BMcD Project No. 170361

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NOTE:
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PAVEMENT MARKING LEGEND

6" S.W.	———	6" SOLID WHITE LINE (C2 25-MIL, L BEADS)
4" S.Y.	———	4" SOLID YELLOW LINE (C2 25-MIL, L BEADS)
24" WSB	▬	24" SOLID WHITE STOP BAR (C2 25-MIL, L BEADS)
	▼▼▼▼▼	WHITE YIELD LINE TRIANGLES (C2 25-MIL, L BEADS)
	▮▮▮	24" SOLID WHITE CROSSWALK (C2 25-MIL, L BEADS)
ARROW	↑ ↰	ARROW (C2 25-MIL, L BEADS)
	▭	ASPHALT PATCHING

ROUTE D PAVEMENT MARKING AND SIGNING SHEET 04 OF 12

ALLISON M. BRUNER NUMBER PE-2019005896
PROFESSIONAL ENGINEER — STATE OF MISSOURI
THIS SHEET HAS BEEN SIGNED, SEALED, AND DATED ELECTRONICALLY
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DATE PREPARED: 12/17/2025

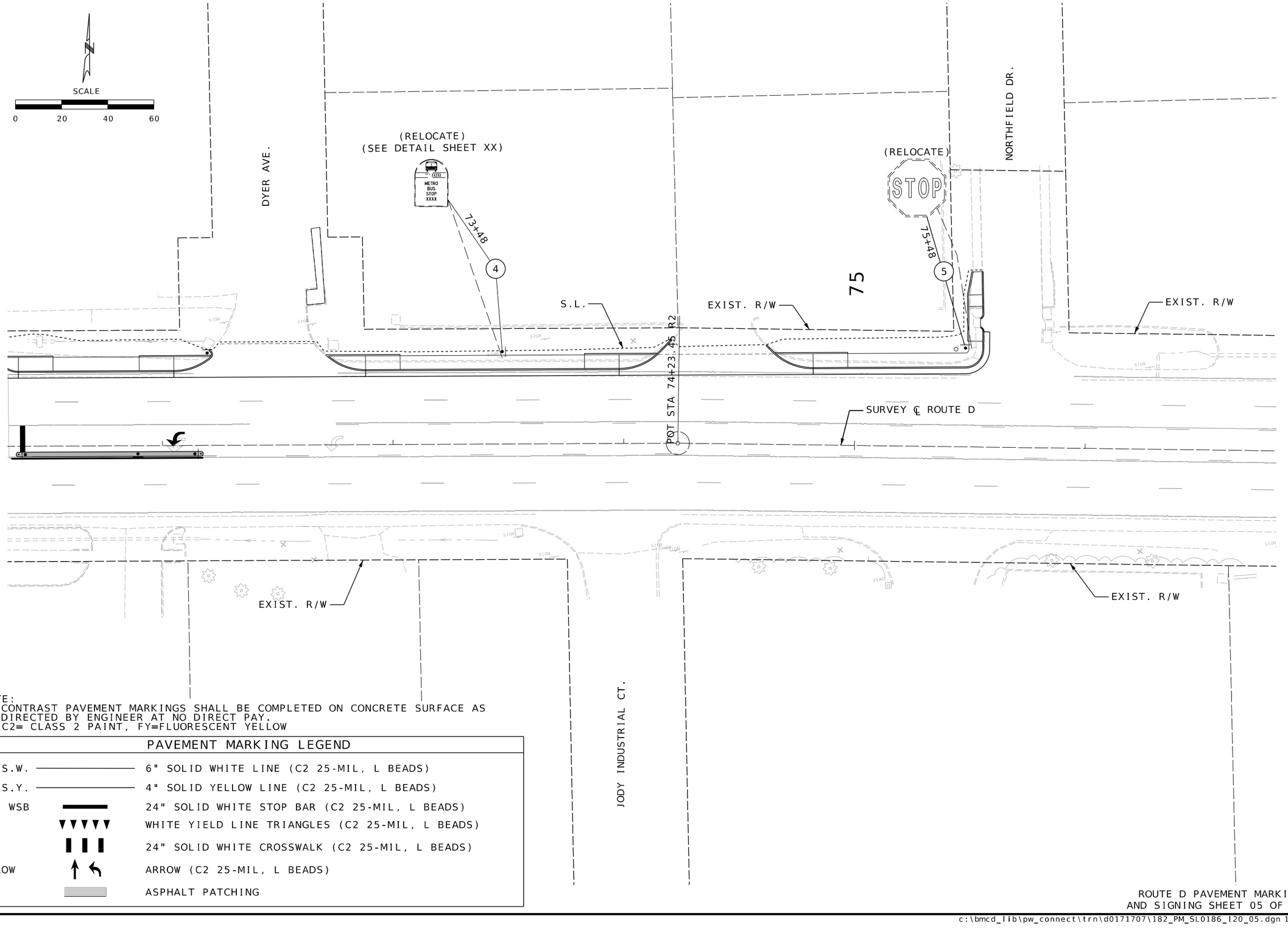
ROUTE	STATE
D	MO
DISTRICT	SHEET NO.
SL	181

COUNTY: ST. LOUIS
JOB NO.: JSL0186
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)

Burns & McDonnell Engineering Co., Inc.
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314-682-1500
Certificate of Authority No.: 000165
BMcD Project No. 170361



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PAVEMENT MARKING LEGEND

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4" S.Y.	———	4" SOLID YELLOW LINE (C2 25-MIL, L BEADS)
24" WSB	▬	24" SOLID WHITE STOP BAR (C2 25-MIL, L BEADS)
	▼▼▼▼▼	WHITE YIELD LINE TRIANGLES (C2 25-MIL, L BEADS)
	▮▮▮	24" SOLID WHITE CROSSWALK (C2 25-MIL, L BEADS)
ARROW	↑ ↰	ARROW (C2 25-MIL, L BEADS)
	▭	ASPHALT PATCHING

ROUTE D PAVEMENT MARKING AND SIGNING SHEET 05 OF 12

STATE OF MISSOURI
ALLISON M. BRUNER
NUMBER PE-2019005896
PROFESSIONAL ENGINEER

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DATE PREPARED
12/17/2025

ROUTE	STATE
D	MO
DISTRICT	SHEET NO.
SL	182

COUNTY
ST. LOUIS

JOB NO.
JSL0186

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)

Burns & McDonnell Engineering Co., Inc.
425 South Woods Mill Road
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314-682-1500
Certificate of Authority
No. : 000165
BMcD Project No. 170361

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PI 98+22.10
PC 97+06.77
PT 99+36.32
Δ 13°46'0.0" (LT)
D 5°59'50.1"
L 229.55' (ARC)
T 115.33'
R 955.37'

SCALE
0 20 40 60

100

S.L.
R2
PT STA 99+36.32
SURVEY ℄ ROUTE D
EXIST. R/W
TCE
S.L.
24" W.S.B.
+52
8"
S79°39'02"E
24" W.S.B.
+09
8"
EXIST. R/W
EXIST. EASEMENT
NEW R/W
S.L.
DIELMAN RD.
EXIST. R/W
EXIST. EASEMENT

NOTE:
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	▼▼▼▼▼	WHITE YIELD LINE TRIANGLES (PREFORMED THERMOPASTIC)
	▮▮▮	24" SOLID WHITE CROSSWALK (PREFORMED THERMOPASTIC)
ARROW	↑ ↰	ARROW (PREFORMED THERMOPASTIC)
	▭	ASPHALT PATCHING

ROUTE D PAVEMENT MARKING
AND SIGNING SHEET 06 OF 12

ALLISON M. BRUNER
NUMBER PE-2019005896
STATE OF MISSOURI
PROFESSIONAL ENGINEER
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DATE PREPARED
12/17/2025

ROUTE	STATE
D	MO
DISTRICT	SHEET NO.
SL	183

COUNTY
ST. LOUIS
JOB NO.
JSL0186
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)

Burns & McDonnell Engineering Co., Inc.
425 South Woods Mill Road
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314-682-1500
Certificate of Authority
No. : 000165
BMcD Project No. 170361

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PI 118+89.02
PC 116+99.78
PT 120+78.12
Δ 3°47'0.0" (LT)
D 0°59'59.9"
L 378.34' (ARC)
T 189.24'
R 5,729.65'

120

EXIST. R/W

S.L.

PT STA 120+78.12 R3

SURVEY ℄ ROUTE D

S82°56'02"E

BURNS AVE.

SCALE
0 20 40 60

6

120+41

S.L.

EXIST. R/W

(RELOCATE)

BURNS AVE.

NOTE:
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PAVEMENT MARKING LEGEND

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ARROW	↑ ↰	ARROW (C2 25-MIL, L BEADS)
	▭	ASPHALT PATCHING

ROUTE D PAVEMENT MARKING AND SIGNING SHEET 07 OF 12

STATE OF MISSOURI
ALLISON M. BRUNER
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ROUTE	STATE
D	MO
DISTRICT	SHEET NO.
SL	184

COUNTY
ST. LOUIS

JOB NO.
JSL0186

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION

DATE

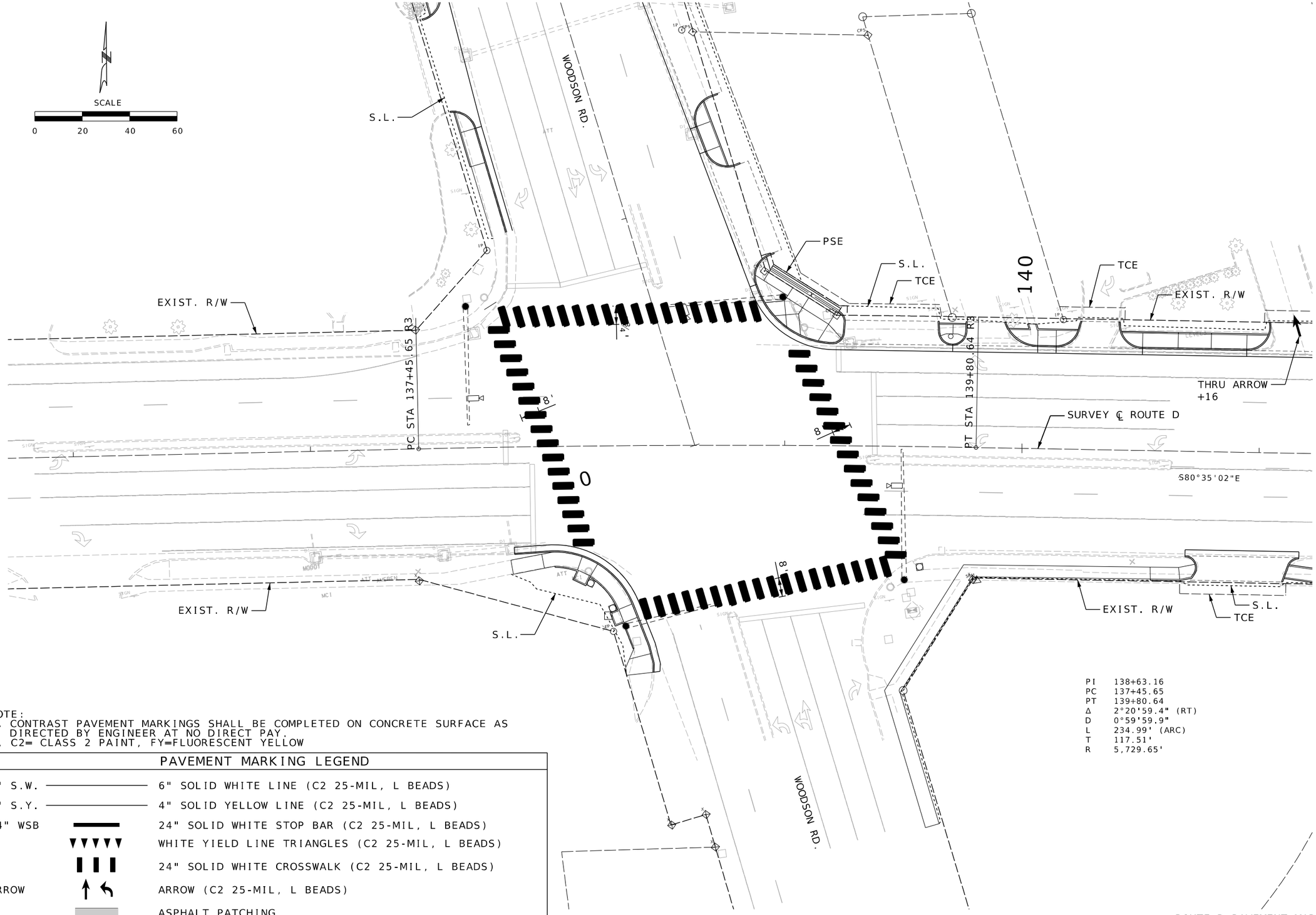
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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

Burns & McDonnell Engineering Co., Inc.
425 South Woods Mill Road
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314-682-1500
Certificate of Authority
No. : 000165

BMcD Project No. 170361

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PI 138+63.16
PC 137+45.65
PT 139+80.64
Δ 2°20'59.4" (RT)
D 0°59'59.9"
L 234.99' (ARC)
T 117.51'
R 5,729.65'

NOTE:
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ARROW	↑ ↰	ARROW (C2 25-MIL, L BEADS)
	▭	ASPHALT PATCHING

ROUTE D PAVEMENT MARKING AND SIGNING SHEET 08 OF 12

STATE OF MISSOURI
ALLISON M. BRUNER
NUMBER PE-2019005896
PROFESSIONAL ENGINEER

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DATE PREPARED
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ROUTE	STATE
D	MO
DISTRICT	SHEET NO.
SL	185

COUNTY
ST. LOUIS

JOB NO.
JSL0186

CONTRACT ID.

PROJECT NO.

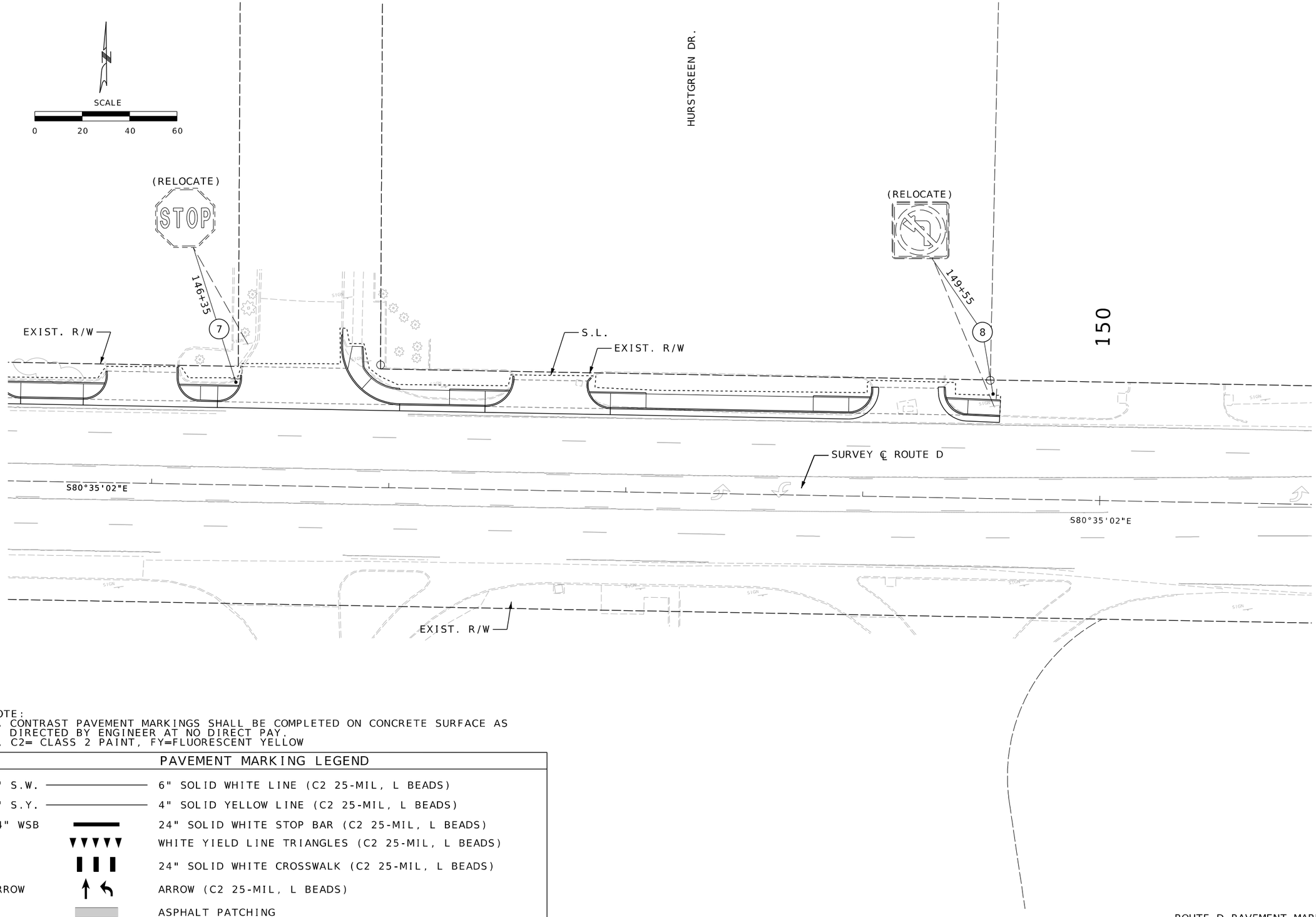
BRIDGE NO.

DESCRIPTION	DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
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Certificate of Authority
No. : 000165
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ARROW	↑ ↰	ARROW (C2 25-MIL, L BEADS)
	▭	ASPHALT PATCHING

ROUTE D PAVEMENT MARKING
AND SIGNING SHEET 09 OF 12

STATE OF MISSOURI
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PROFESSIONAL ENGINEER

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ROUTE	STATE
D	MO
DISTRICT	SHEET NO.
SL	186

COUNTY
ST. LOUIS

JOB NO.
JSL0186

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

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SIGNS

902 SIGNAL SIGNS TABULATED ON D-37A SHEET

SIGN NO.	SIGN SIZE	STATION OR LOG MILE	HORIZ CLEAR IF NOT STD	LOCATION	SIGN DTL SHT NO.	CONCRETE FOOTINGS EMBEDDED ITEM NO. 9031010 CY	STRUCTURAL STEEL POSTS* POST DES NO.	POST NO.1 LF	POST NO.2 LF	POST NO.3 LF	LBS PER FT	TOTAL ITEM NO. 9031210 LBS	PIPE POSTS* PIPE SIZE IN	POST NO.1 LF	POST NO.2 LF	LBS PER FT	TOTAL ITEM NO. 9031220 LBS	BACKING BARS** 2" X 3/8" BARS AT 2.55 LBS/FT NO. EACH	LGTH IN.	TOTAL LF	TOTAL LBS	U-CHANNEL POST ITEM NO. 9031250A LF	PERFORATED SQUARE STEEL TUBE 2-INCH POST POST NO.1 LF	POST NO.2 LF	TOTAL ITEM NO. 9031270A LF	ANCHORS DRIVEN 12 GA. ITEM NO. 9031271A EACH	DRIVEN 7 GA. ITEM NO. 9031273A EACH	CONCRETE 7 GA. ITEM NO. 9031274 EACH	2.5-INCH POST POST NO.1 LF	POST NO.2 LF	TOTAL ITEM NO. 9031280 LF	2.25" INSERT (6 FT) ITEM NO. 9031272A EACH	ANCHORS DRIVEN 7 GA. ITEM NO. 9031281A EACH	CONCRETE 7 GA. ITEM NO. 9031285 EACH	BREAK-AWAY ASSEMBLY ITEM NO. 9031241 EACH	REMARKS AND OTHER REQUIRED ITEMS
1	24"X30"	69+37		RTE D-LT																										14		14		1			
2	24"X30"	70+10		RTE D-LT																										14		14		1			
3	36"X36"	72+20		RTE D-LT																										14		14		1			
4	18"X24"	73+48		RTE D-LT																										14		14		1			
5	36"X36"	75+48		RTE D-LT																										14		14		1			
6	12"X36"	120+41		RTE D-RT																										8		8		1			
7	36"X36"	146+35		RTE D-LT																										14		14		1			
8	36"X36"	149+55		RTE D-LT																										14		14		1			
9	36"X36"	38+71		RTE D-RT																										14		14		1			
10	48"X18"	69+72		RTE D-LT																										14		14		1			
11	24"X30"	71+41		RTE D-RT																										14		14		1			
12	48"X18"	72+89		RTE D-RT																										14		14		1			
13	24"X30"	72+14		RTE D-RT																										14		14		1			
				SUBTOTAL																										176		176		13			
				TOTAL																		**								176		176		13			

*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.	NOM. SIZE	POST WEIGHT LBS/FT	POST WEIGHT LBS/IN	STUB LENGTH	FOOTING DIA.	LEVEL GROUND DEPTH	LEVEL GROUND C.Y.	6:1 GRADE DEPTH	6:1 GRADE C.Y.	4:1 GRADE DEPTH	4:1 GRADE C.Y.	3:1 OR 2:1 GRADE DEPTH	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

ROUTE D PAVEMENT MARKING AND SIGNING SHEET 10 OF 12

D-29

EFFECTIVE: 07-01-2024

STATE OF MISSOURI
ALLISON M. BRUNER
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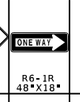
ROUTE D | STATE MO
DISTRICT SL | SHEET NO. 187
COUNTY ST. LOUIS
JOB NO. JSL0186
CONTRACT ID.
PROJECT NO.
BRIDGE NO.

DESCRIPTION | DATE | REV.

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
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Certificate of Authority
No. : 000165
BMcD Project No. 170361

STANDARD SIGN ASSEMBLIES

SIGN NO.	STATION OR LOG MILE	LOCATION	SIGN, TYPE, DESIGNATION, SIZE & NUMBER OF EACH																				
			SH	SHF	SH																		
			 R4-7 24"X30"	 W12-1 30"X30"	 R6-1R 48"X18"																		
1	69+37	RTE D-LT	1																				
2	70+10	RTE D-LT	1																				
9	38+71	RTE D-RT		1																			
10	69+72	RTE D-LT			1																		
11	71+41	RTE D-RT	1																				
12	72+89	RTE D-RT			1																		
13	72+14	RTE D-RT	1																				
		TOTALS	4	1	2																		

SIGN SUMMARY

EFFECTIVE: 10-01-2016

STANDARD OR SPECIAL SIGN DESIGNATION	SIGN DTL. SHT. NO.	NO. EACH	SIGN SIZE	TYPE & SQUARE FEET			
				FLAT SHEET SH ITEM NO. 9035004A	FLAT SHEET FLUORESCENT SHF* ITEM NO. 9035069A	STRUCTURAL ST ITEM NO. 9035011A	STRUCTURAL FLUORESCENT STF* ITEM NO. 9035071A
R4-7		4	24" X 30"	20			
W12-1		1	30" X 30"		6		
R6-1R		2	48" X 18"	12			
PAY TOTALS				32	6		

*ORANGE, YELLOW AND YELLOW-GREEN

ALLISON M. BRUNER NUMBER PE-2019005896 STATE OF MISSOURI PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED, AND DATED ELECTRONICALLY

Digitally signed by Allison Bruner
Date: 2025.12.19 09:38:52-06'00'

DATE PREPARED: 12/17/2025

ROUTE: D | STATE: MO

DISTRICT: SL | SHEET NO.: 188

COUNTY: ST. LOUIS

JOB NO.: JSL0186

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)

Burns & McDonnell Engineering Co., Inc.

425 South Woods Mill Road
Chesterfield, Missouri 63017
314-682-1500

Certificate of Authority
No. : 000165

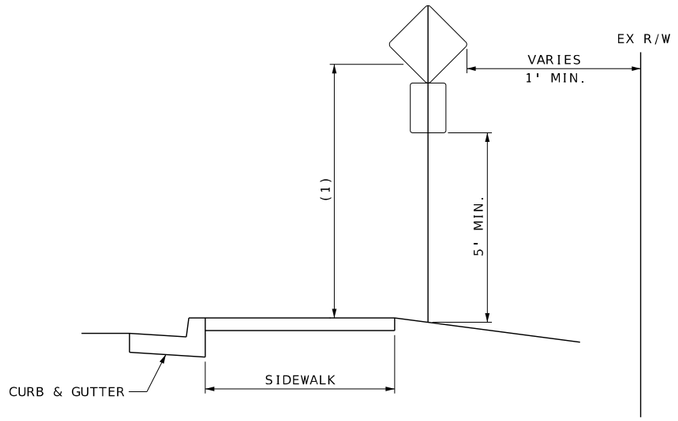
BMcD Project No. 170361

ROUTE D PAVEMENT MARKING AND SIGNING SHEET 11 OF 12

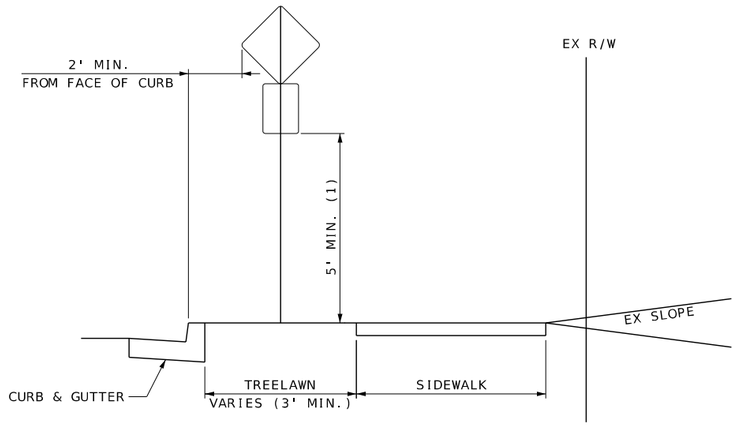
D-30

REV.

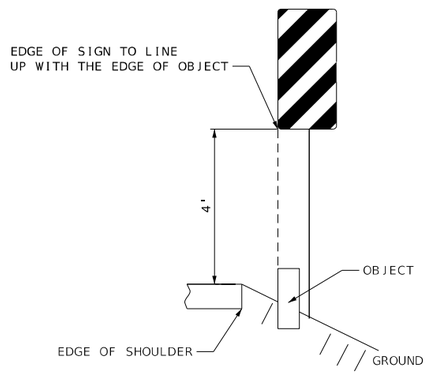
(1) THE CONTRACTOR SHALL INSTALL SIGNS TO AVOID OVERHANGING THE P.A.R., WHERE PRACTICABLE. AT SIGN LOCATIONS WHERE RIGHT OF WAY IS LIMITED OR TREELAWN IS TOO NARROW, THE CONTRACTOR SHALL MAINTAIN A 7-FT MINIMUM VERTICAL CLEARANCE FROM THE SURFACE OF P.A.R. TO THE BOTTOM OF THE SIGN OR SIGN PLAQUE.



SIGN WITH PLAQUE BEHIND SIDEWALK



SIGN WITH PLAQUE IN TREELAWN



OBJECT MARKER

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ROUTE D PAVEMENT MARKING
AND SIGNING SHEET 12 OF 12

STATE OF MISSOURI
ALLISON M. BRUNER
NUMBER PE-2019005896
PROFESSIONAL ENGINEER
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12/17/2025

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DISTRICT	SHEET NO.
SL	189

COUNTY
ST. LOUIS

JOB NO.
JSL0186

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

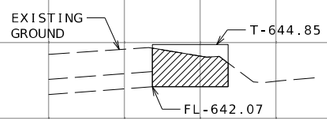
DESCRIPTION	DATE

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

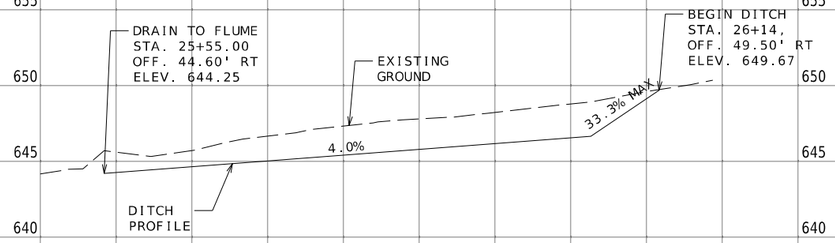
Burns & McDonnell Engineering Co., Inc.
425 South Woods Mill Road
Chesterfield, Missouri 63017
314-682-1500
Certificate of Authority
No. : 000165
BMcD Project No. 170361

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INLET 1R
STA. 25+52, 36' RT. SURVEY ℄ ROUTE D
PRECAST CONCRETE DROP INLET 5'X3'
TYPE T PRECAST DROP INLET TOP.
1-5'X3' GRATE AND BEARING PLATE.
1-12" OPENING
D=2.78'
CLASS 3 EXC. = 1.6 CY

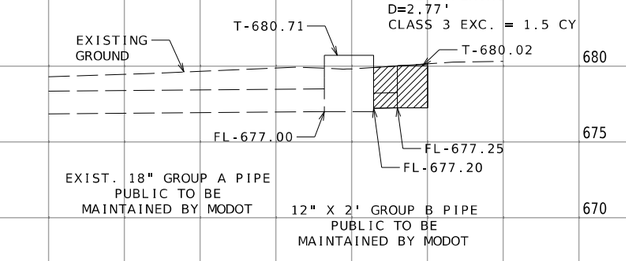


DITCH
STA. 26+14, 49.50' RT. SURVEY ℄ ROUTE D

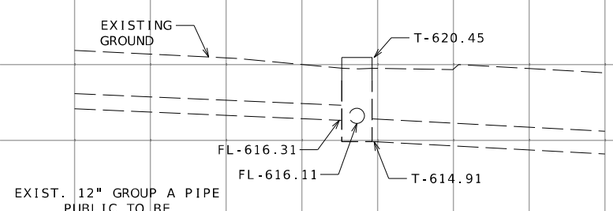


INLET 1L
STA. 36+01, 38.30' LT. SURVEY ℄ ROUTE D
EXISTING GRATE INLET
REMOVE AND REPLACE TOP
CIP MANHOLE LID AND COVER
1-12" OPENING
1-18" OPENING (EXIST.)
D=3.71'

INLET 1L
STA. 36+01, 34' LT. SURVEY ℄ ROUTE D
PRECAST CONCRETE DROP INLET (2) 2'X2'
TYPE A PRECAST DROP INLET TOP
CURVED VANE AND GRATE
1-12" OPENING
D=2.77'
CLASS 3 EXC. = 1.5 CY



INLET 2L
STA. 110+31, 36.39' LT. SURVEY ℄ ROUTE D
EXISTING GRATE INLET
REMOVE AND REPLACE TOP
4'X 2' GRATE AND BEARING PLATE
2-12" OPENING (EXIST.)
1-18" OPENING (EXIST.)
D=5.54'



NOTE:

TOP ELEVATIONS AND FLOWLINE ELEVATIONS ARE APPROXIMATE BASED ON AVAILABLE DATA. CONTRACTOR SHALL FIELD VERIFY ELEVATIONS PRIOR TO CONSTRUCTION.

ROUTE D CULVERT SECTION
SHEET 01 OF 01

MSD BASE MAPS: 15L, 15M, 16K, 16L MSD PERMIT NUMBER: 25MSD-00026

ALLISON M. BRUNER
NUMBER PE-2019005896
PROFESSIONAL ENGINEER
STATE OF MISSOURI
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D	MO
DISTRICT	SHEET NO.
SL	190

COUNTY
ST. LOUIS

JOB NO.
JSL0186

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

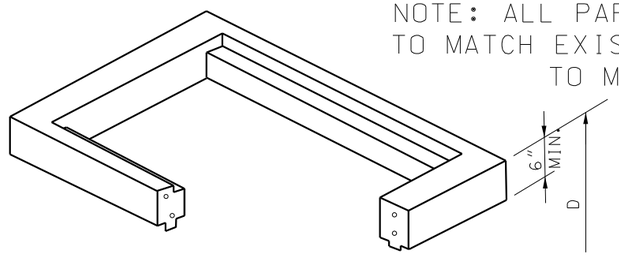
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MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

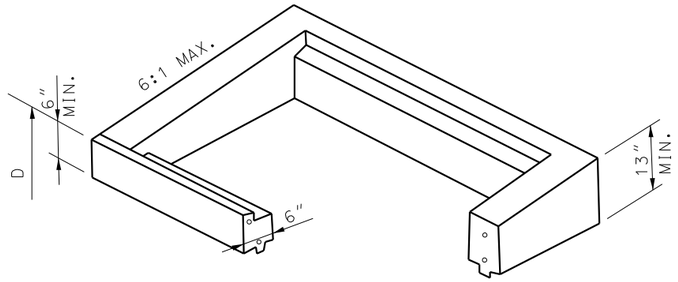
Burns & McDonnell Engineering Co., Inc.
425 South Woods Mill Road
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Certificate of Authority
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BMcD Project No. 170361

c:\bmcd_lib\pw_connect\trn\d0171707\190_CS_SL0186_I20_01.DGN.dgn 10:02:08 AM 12/17/2025

NOTE: ALL PARALLEL BAR GRATES SHALL BE 3'x3' TO MATCH EXISTING INLET SIZE. WALL THICKNESS TO MATCH INTO EXIST. INLET.

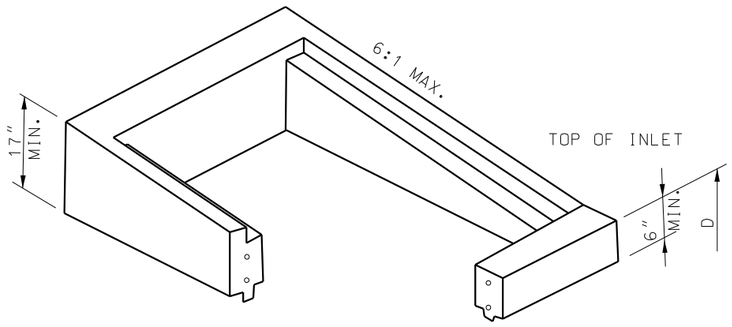


TYPE S-1



TYPE S-2

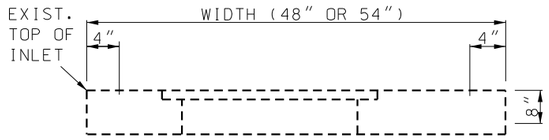
HORIZ. #4 BARS AT 6" CTRS. AND VERT. AT 10" CTRS.

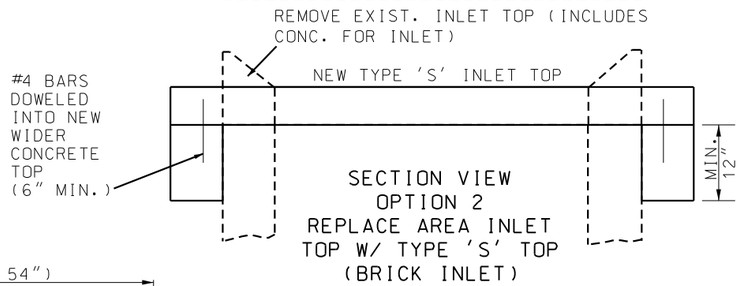


TYPE S-3

SEE STANDARD PLAN 614.10 FOR GRATES AND BEARING PLATES. TYPICAL LOCATION DETAILS ARE INDICATED ON SHEETS 7 AND 8 OF 8.

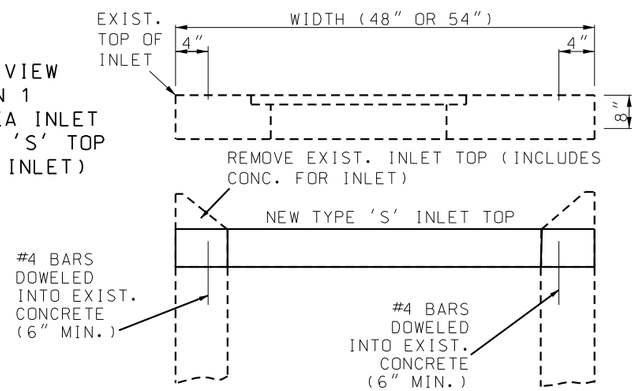
FROM MSD STD. PLANS
STD. STONE W/ MANHOLE
MATCHES INLETS ALONG ROUTE D
AS NOTED & TO BE MODIFIED
ON THIS PROJECT.





SECTION VIEW
OPTION 2
REPLACE AREA INLET
TOP W/ TYPE 'S' TOP
(BRICK INLET)

SECTION VIEW
OPTION 1
REPLACE AREA INLET
TOP W/ TYPE 'S' TOP
(CONCRETE INLET)



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GENERAL NOTES:

THE CONTRACTOR SHALL SAW CUT AND REMOVE THE EXISTING AREA INLET TOP AS NOTED IN THE PLANS. MSD STYLE INLET SHOWN ON THIS SHEET MATCHES MEASUREMENTS TAKEN IN THE FIELD BUT THIS MAY VARY WHEN CONTRACTOR REMOVES THE EXISTING TOP. A PORTION OF THE INLET WALLS MAY ALSO NEED REMOVAL IN ORDER TO CREATE A SURFACE EVEN WITH EXISTING GROUND ELEVATIONS.

THE CONTRACTOR SHALL INSTALL A NEW TYPE 'S' INLET TOP BASED UPON CURRENT MoDOT STD. PLANS AND SHALL ANCHOR THE NEW TOP TO THE EXISTING INLET USING EITHER OPTION 1 OR OPTION 2 SHOWN ON THIS SHEET, UNLESS A DIFFERENT METHOD IS APPROVED BY THE ENGINEER.

REINFORCING BARS SHALL BE EPOXY COATED AND SECURELY DRILLED INTO THE EXISTING INLET TO CONNECT THE NEW TYPE 'S' TOP TO THE EXISTING INLET. THE CONTRACTOR SHALL HAVE THE OPTION TO CUT THE EXISTING INLET TOP INCLUDING NECESSARY SIDEWALLS AND FORM A NEW TOP THAT SURROUNDS THE EXISTING INLET IN LIEU OF DOWELING INTO THE EXISTING WALLS, WHICH MAY BE BRICK INSTEAD OF CONCRETE.

JOINTS SHALL BE SEALED IN ACCORDANCE WITH SECTION 726.3.1 OF THE STANDARD SPECIFICATIONS.

THE CONTRACTOR WILL BE PERMITTED TO CAST IN PLACE THE NEW DROP INLET TOP CALLED FOR IN THE PLANS.

NO DIRECT PAYMENT WILL BE MADE FOR REINFORCING STEEL.

NO DIRECT PAYMENT WILL BE MADE FOR CUTTING OR BENDING REINFORCING STEEL.

THE REINFORCEMENT SHOWN IS THE MINIMUM REQUIRED. AT THE CONTRACTOR'S OPTION, ADDITIONAL REINFORCEMENT MAY BE USED.

REINFORCING STEEL EDGE DISTANCE SHALL BE MINIMUM OF 2" UNLESS OTHERWISE SPECIFIED.

ANY CLASS 3 EXCAVATION NECESSARY TO RECONSTRUCT INLET TOP SHALL BE PAID FOR AS NO DIRECT PAYMENT.

ROUTE D SPECIAL DRAINAGE
DETAIL SHEET 01 OF 02

ALLISON M. BRUNER
NUMBER PE-2019005896
STATE OF MISSOURI
PROFESSIONAL ENGINEER

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D	MO
DISTRICT	SHEET NO.
SL	191

COUNTY
ST. LOUIS

JOB NO.
JSL0186

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

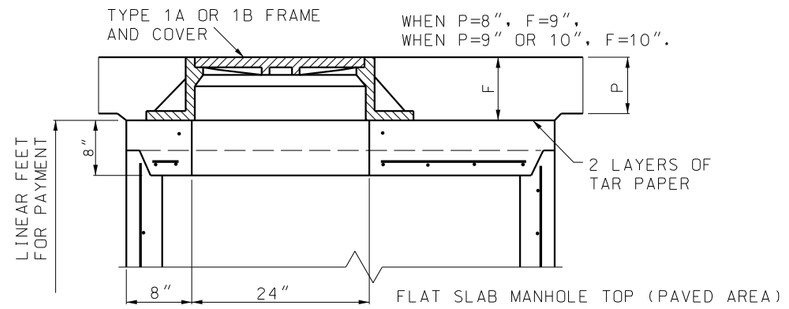
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105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

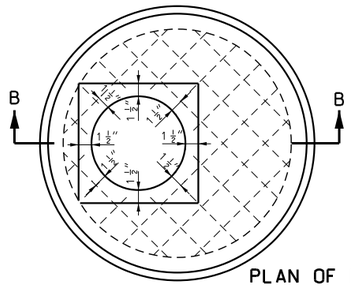
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MSD BASE MAPS: 15L, 15M, 16K, 16L MSD PERMIT NUMBER: 25MSD-00026

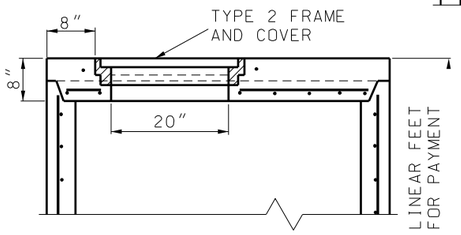
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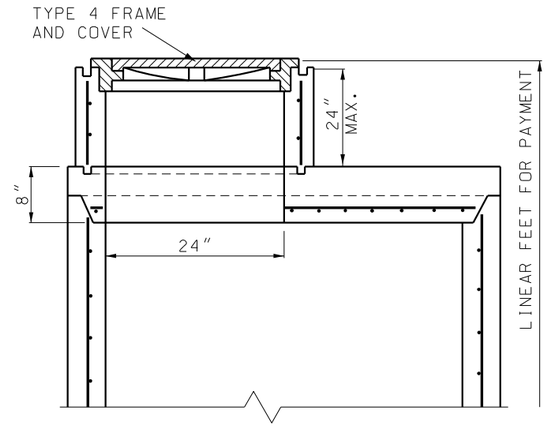
SECTION B-B



PLAN OF FLAT SLAB
MANHOLE TOP



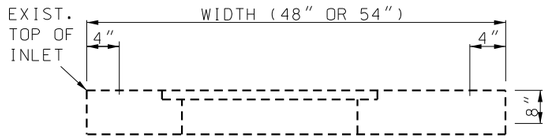
ALTERNATE SECTION B-B

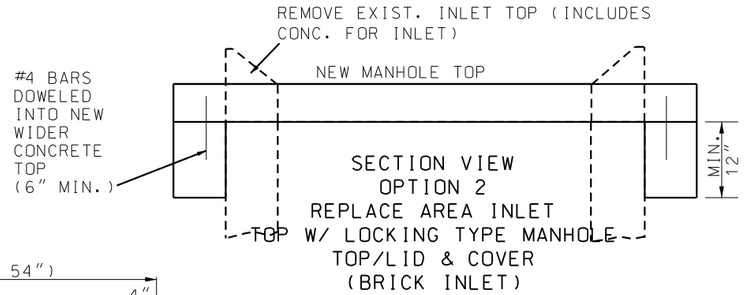


ALTERNATE MANHOLE TOP

ALTERNATE FLAT SLAB MANHOLE TOP (UNPAVED AREA) USED WHERE DEPTH OF MANHOLE WILL NOT PERMIT USE OF CONE AND TAPER SECTIONS.

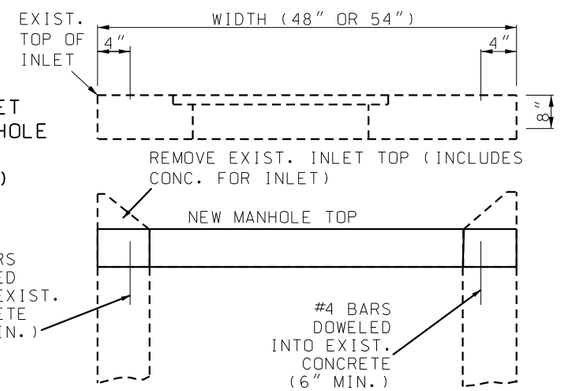
FROM MSD STD. PLANS
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MATCHES INLETS ALONG ROUTE D
AS NOTED & TO BE MODIFIED
ON THIS PROJECT.





SECTION VIEW
OPTION 2
REPLACE AREA INLET
TOP W/ LOCKING TYPE MANHOLE
TOP/LID & COVER
(BRICK INLET)

SECTION VIEW
OPTION 1
REPLACE AREA INLET
TOP W/ LOCKING MANHOLE
TOP/LID & COVER
(CONCRETE INLET)



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THE CONTRACTOR SHALL INSTALL LOCKING MANHOLE COVER BASED UPON CURRENT MoDOT STD. PLANS AND SHALL ANCHOR THE NEW TOP TO THE EXISTING INLET USING EITHER OPTION 1 OR OPTION 2 SHOWN ON THIS SHEET, UNLESS A DIFFERENT METHOD IS APPROVED BY THE ENGINEER.

REINFORCING BARS SHALL BE EPOXY COATED AND SECURELY DRILLED INTO THE EXISTING INLET TO CONNECT THE NEW TYPE 'S' TOP TO THE EXISTING INLET. THE CONTRACTOR SHALL HAVE THE OPTION TO CUT THE EXISTING INLET TOP INCLUDING NECESSARY SIDEWALLS AND FORM A NEW TOP THAT SURROUNDS THE EXISTING INLET IN LIEU OF DOWELING INTO THE EXISTING WALLS, WHICH MAY BE BRICK INSTEAD OF CONCRETE.

JOINTS SHALL BE SEALED IN ACCORDANCE WITH SECTION 726.3.1 OF THE STANDARD SPECIFICATIONS.

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ROUTE D SPECIAL DRAINAGE
DETAIL SHEET 02 OF 02

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