DESIGN DESIGNATION

LOCATION 1 A.A.D.T. - 2024 = 8,694
V = 35 M.P.H.
FUNCTIONAL CLASSIFICATION-MAJOR COLLECTOR

LOCATION 2 A.A.D.T. - 2024 = 4,267
V = 35 M.P.H.
FUNCTIONAL CLASSIFICATION-PRINCIPAL ARTERIAL

LOCATION 3 A.A.D.T. - 2024 = 16,096
V = 35 M.P.H.
FUNCTIONAL CLASSIFICATION-PRINCIPAL ARTERIAL

LOCATION 4 A.A.D.T. - 2024 = 20,243
V = 45 M.P.H.
FUNCTIONAL CLASSIFICATION-EXPRESSWAY

LOCATION 5 A.A.D.T. - 2024 = 8,278
V = 45 M.P.H.
FUNCTIONAL CLASSIFICATION-MINOR ARTERIAL

LOCATION 6 A.A.D.T. - 2024 = 11,475
V = 45 M.P.H.
FUNCTIONAL CLASSIFICATION-PRINCIPAL ARTERIAL

LOCATION 7 A.A.D.T. - 2024 = 2,431
V = 45 M.P.H.
FUNCTIONAL CLASSIFICATION-MINOR ARTERIAL

LOCATION 8 A.A.D.T. - 2024 = 9,427
V = 45 M.P.H.
FUNCTIONAL CLASSIFICATION-MINOR ARTERIAL

LOCATION 9 A.A.D.T. - 2024 = 3,723
V = 50 M.P.H.
FUNCTIONAL CLASSIFICATION-MINOR ARTERIAL

LOCATION 10 A.A.D.T. - 2024 = 2,950
V = 40 M.P.H.
FUNCTIONAL CLASSIFICATION-MINOR ARTERIAL

NO NEW R/W ACQUIRED

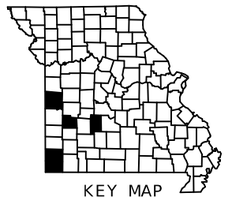
CONVENTIONAL SYMBOLS
(USED IN PLANS)

	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 PROPOSED STATE HIGHWAY



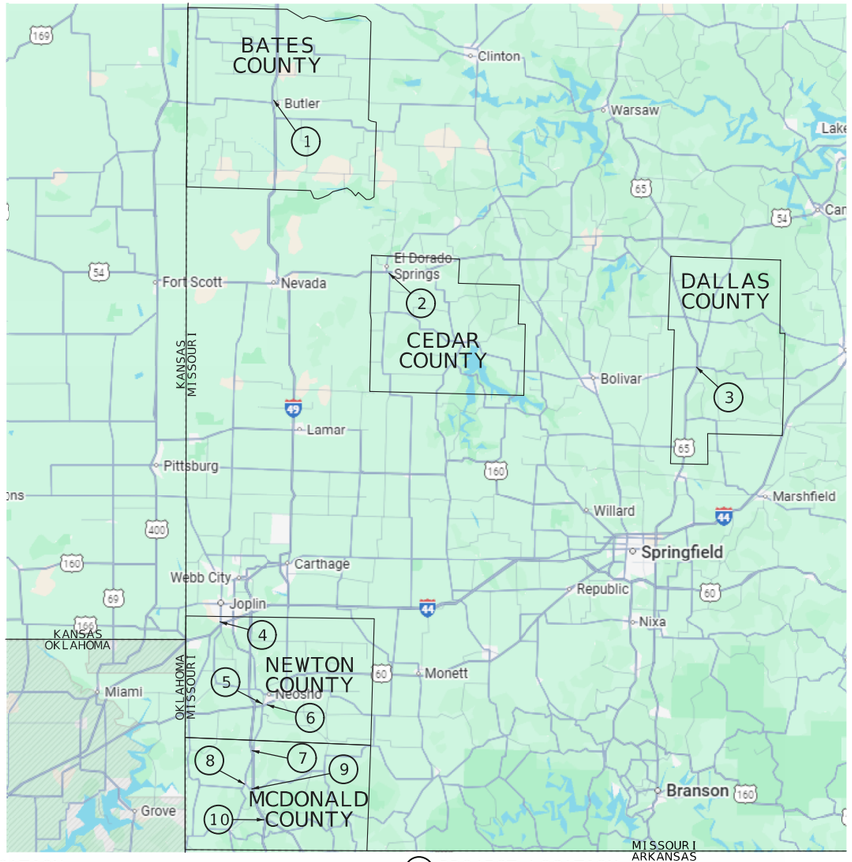
KEY MAP
LOCATION OF BATES, CEDAR, DALLAS, NEWTON, AND MCDONALD COUNTIES

N.T.S.

BATES, CEDAR, DALLAS, NEWTON, AND MCDONALD COUNTIES

PROJECT DESCRIPTION:

ADA, ADDED TURN LANE, INTERSECTION IMPROVEMENTS, AND SIGNAL REPLACEMENT IN VARIOUS COUNTIES



1. PROJECT LOCATION
MISSOURI ROUTE 52 AT BUSINESS LOOP 49 - BUTLER, MO
S22-T40N-R21W

2. PROJECT LOCATION
U.S. ROUTE 54 AT PARK STREET - EL DORADO SPRINGS, MO
S28-T36N-R28W

3. PROJECT LOCATION
U.S. ROUTE 65 AT MISSOURI ROUTE 32 - BUFFALO, MO
S26/27-T34N-R20W

4. PROJECT LOCATION
MISSOURI ROUTE 43 AT 41ST STREET - JOPLIN, MO
S22/23-T27N-R33W

5. PROJECT LOCATION
BUSINESS LOOP 49 AT WALDO HATLER MEMORIAL DRIVE - NEOSHO, MO
S25/36-T25N-R32W

6. PROJECT LOCATION
U.S. ROUTE 60 AT OAK RIDGE DRIVE - NEOSHO, MO
S36-T25N-R32W

7. PROJECT LOCATION
MISSOURI ROUTE 59 AT ROUTE C - GOODMAN, MO
S7/8-T23N-R32W

8. PROJECT LOCATION
MISSOURI ROUTE 59 AT BUSINESS ROUTE 71 AND MISSOURI ROUTE 76 - ANDERSON, MO
S12-T22N-R33W

9. PROJECT LOCATION
BUSINESS ROUTE 71 AT CEDAR STREET - ANDERSON, MO
S18-T22N-R32W

10. PROJECT LOCATION
BUSINESS ROUTE 71 AT ROUTE W - PINEVILLE, MO
S33/34-T22N-R32W

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

INDEX OF SHEETS

DESCRIPTION	SHEET NUMBER
TITLE SHEET	1
TYPICAL SECTIONS (TS) (10 SHEETS)	2
QUANTITIES (QU) (10 SHEETS)	3
REFERENCE POINTS (RP)	4
COORDINATE POINTS (CP)	5-9
SPECIAL SHEETS (SS)	10-14
TRAFFIC CONTROL SHEETS (TC)	15-26
EROSION CONTROL SHEETS (EC)	27-29
LIGHTING (LT)	30-32
SIGNALS (SG)	33-92
SIGNING (SN)	93-102
PAVEMENT MARKING (PM)	103-111
CULVERT SECTIONS (CS)	112
CROSS SECTIONS (XS)	1-6

LENGTH OF PROJECT

LOCATION 1	
APPARENT LENGTH	137.75 FEET
LOCATION 2	
APPARENT LENGTH	325.00 FEET
LOCATION 3	
APPARENT LENGTH	536.04 FEET
LOCATION 4	
APPARENT LENGTH	623.32 FEET
LOCATION 5	
APPARENT LENGTH	280.00 FEET
LOCATION 6	
APPARENT LENGTH	456.00 FEET
LOCATION 7	
APPARENT LENGTH	364.00 FEET
LOCATION 8	
APPARENT LENGTH	515.26 FEET
LOCATION 9	
APPARENT LENGTH	335.00 FEET
LOCATION 10	
APPARENT LENGTH	286.00 FEET
TOTAL CORRECTIONS	0.00 FEET
NET LENGTH OF PROJECT	3,858.37 FEET
STATE LENGTH	0.731 MILES
FOR INFORMATION ONLY ESTIMATED DISTURBED ACRES	0.4 ACRES

STATE OF MISSOURI
DONALD THOMAS SAIKO
NUMBER PE-28475
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED: 2/26/2026
ROUTE: VAR. | STATE: MO
DISTRICT: SW | SHEET NO.: 1
COUNTY: VARIOUS
JOB NO.: J7P3529
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)

GARVER, LLC.
7509 NW TIFFANY SPRINGS
PARKWAY, SUITE 200
KANSAS CITY, MO 64153
PHONE: (816) 298-6465
CERTIFICATE OF AUTHORITY
NO. 2008013090

OPTIONAL PAVEMENT

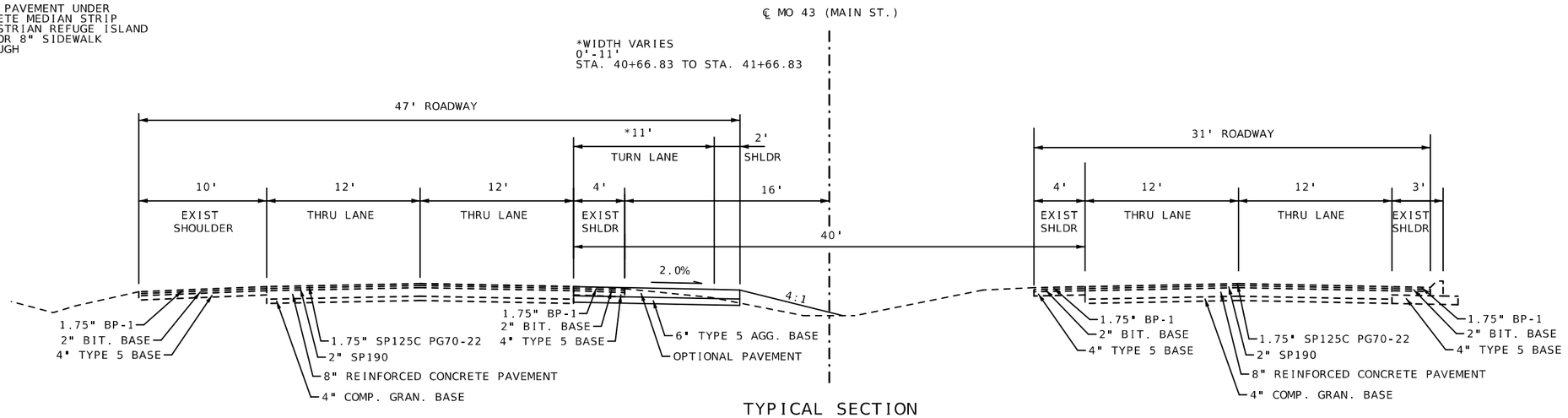
8.5" HMA
2" SP125C w/ PG 64-22
6.5" SP190C OR SP250C w/ PG 64-22

OR

8.5" PCCP
15' JOINTS W/ 1.25" DOWELS

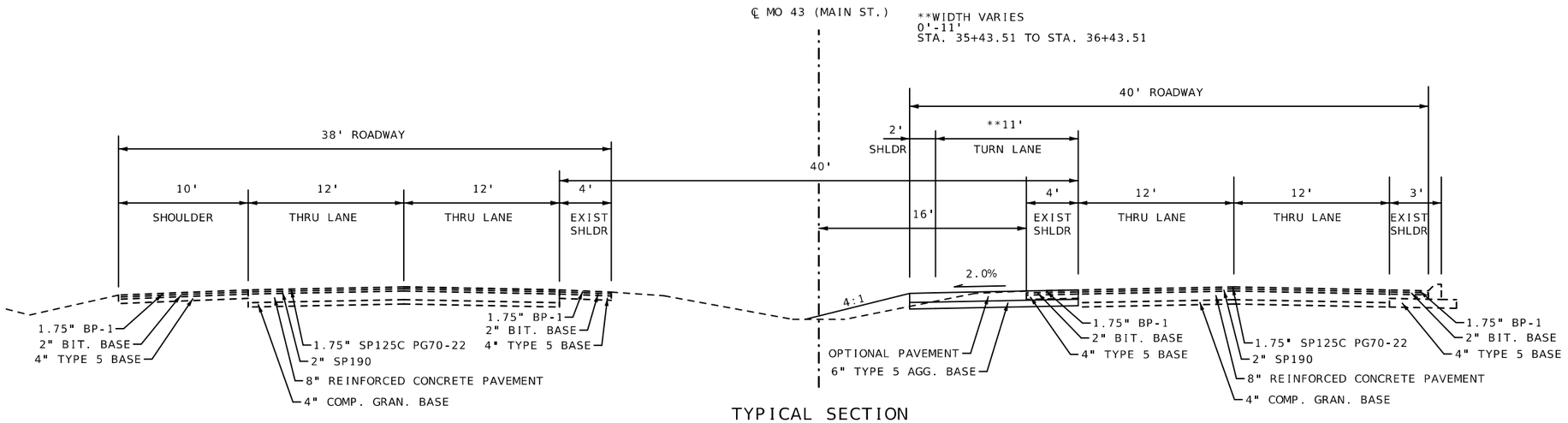
NOTE:

OPTIONAL PAVEMENT UNDER
8" CONCRETE MEDIAN STRIP
FOR PEDESTRIAN REFUGE ISLAND
EXCEPT FOR 8" SIDEWALK
CUT-THROUGH



TYPICAL SECTION
MO 43 (MAIN STREET)

STA. 38+87.00 TO STA. 41+66.63



TYPICAL SECTION
MO 43 (MAIN STREET)

STA. 35+43.51 TO STA. 38+35.00

TYPICAL SECTION
SHEET
1 OF 10

STATE OF MISSOURI
DONALD THOMAS SAIKO
NUMBER PE-28475
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED
2/13/2026

ROUTE	STATE
VAR.	MO
DISTRICT	SHEET NO.
SW	2

COUNTY
VARIOUS

JOB NO.
J7P3529

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION	DATE

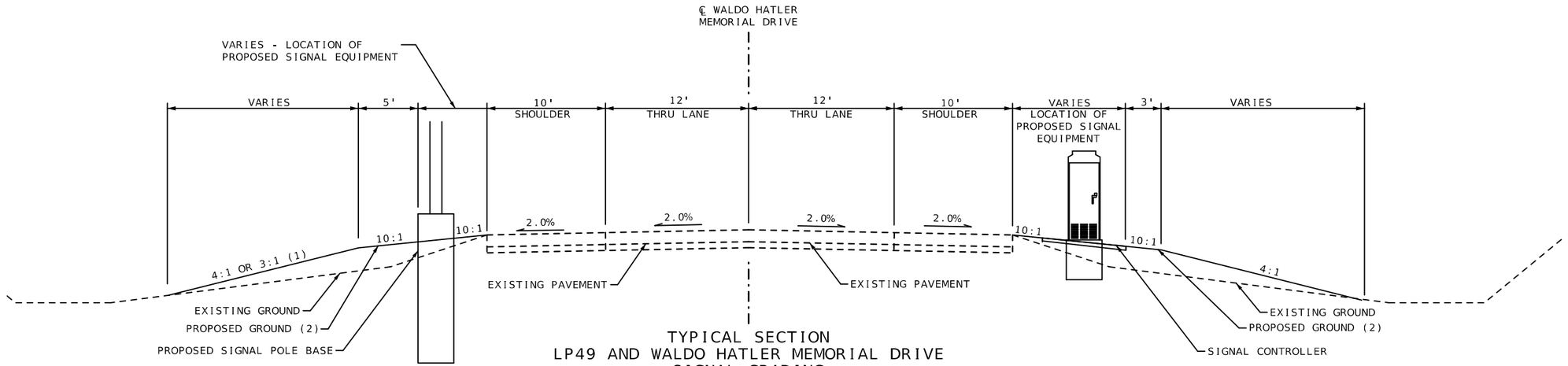
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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

GARVER, LLC.
7509 NW TIFFANY SPRINGS PARKWAY, SUITE 200
KANSAS CITY, MO 64153
PHONE: (816) 298-6465
CERTIFICATE OF AUTHORITY NO. 2008013090

GARVER

c:\projectwise\garver-pw.bentley.com_garver-pw-01\d0163749\002_TS_01_J7P3529_i1.dgn 2:21:19 PM 2/13/2026

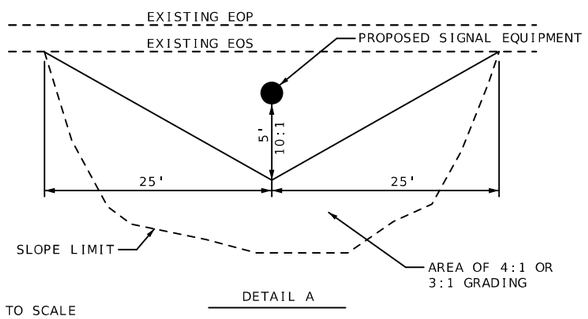


TYPICAL SECTION
LP49 AND WALDO HATLER MEMORIAL DRIVE
SIGNAL GRADING

(1) NE QUADRANT IS THE ONLY AREA THAT REQUIRES 3:1 GRADING
(2) SEE DETAIL A FOR PLAN VIEW OF PROPOSED GRADING

NW QUADRANT
STA. 732+18.28 TO STA. 732+71.30
NE QUADRANT
STA. 733+85.16 TO STA. 734+00.29
SE QUADRANT
STA. 733+89.28 TO STA. 734+42.41
SW QUADRANT
STA. 732+54.00 TO STA. 732+42.29

NOTE: SIGNAL EQUIPMENT INCLUDES CONTROLLER,
SIGNAL BASE, AND POWER SUPPLY IN SW QUADRANT



DETAIL A

NOT TO SCALE

STATE OF MISSOURI
DONALD THOMAS SAIKO
NUMBER PE-28475
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED
2/13/2026

ROUTE	STATE
VAR.	MO
DISTRICT	SHEET NO.
SW	2

COUNTY
VARIOUS

JOB NO.
J7P3529

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)

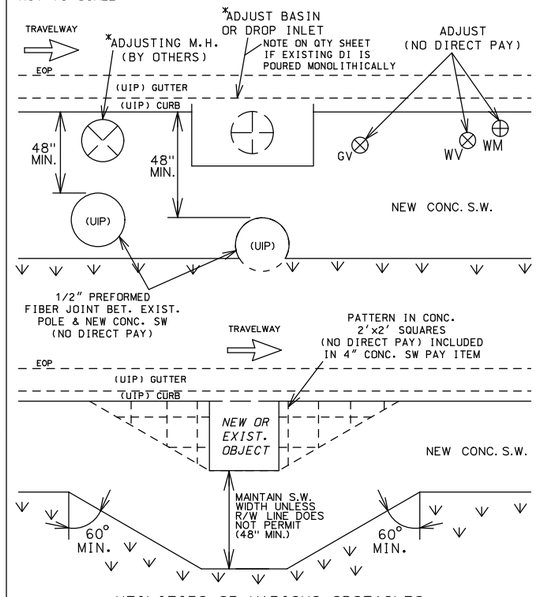
GARVER, LLC.
7509 NW TIFFANY SPRINGS
PARKWAY, SUITE 200
KANSAS CITY, MO 64153
PHONE: (816) 298-6465
CERTIFICATE OF AUTHORITY
NO. 2008013090

TYPICAL SECTION
SHEET
2 OF 10

1. CONCRETE SIDEWALK, CURB RAMP AND DETECTABLE WARNING DEVICE (TRUNCATED DOMES) DETAILS SHALL CONFORM TO ADA REQUIREMENTS UNLESS NOTED OTHERWISE IN THESE PLANS. FOR SIDEWALK JOINT AND CURB DETAILS, SEE STANDARD PLAN 609.00.
2. TINTED CONCRETE SHALL NOT BE USED. TRUNCATED DOMES SHALL BE OF A COLOR CONTRASTING WITH UNTINTED CONCRETE AND APPROVED BY THE ENGINEER. TRUNCATED DOMES ARE REQ'D. AT STREET INTERSECTIONS AND COMMERCIAL ENTRANCES WITH TRAFFIC CONTROL ONLY. (STOP/YIELD SIGNS OR SIGNALS)
3. CONCRETE SHALL BE IN ACCORDANCE WITH SEC. 608 & SEC. 609. CURING COMPOUND SHALL BE TRANSPARENT.
4. ALL CONCRETE SIDEWALK AND CURB RAMP/TRANSITION/LANDING AREAS SHALL BE 4" THICK, WITH THE EXCEPTION OF THE BOTTOM TRANSITION WHICH TIES INTO THE EXISTING PAVED APPROACH AND ROADWAY. THIS TRANSITION, OR LANDING AREA, MUST BE 8" THICK IF IT FALLS WITHIN THE RADIUS OF THE APPROACH AND SITS AT THE BACK OF CURB OF THE ROADWAY. ALL CONCRETE SIDEWALK AND CURB RAMP/TRANSITION/LANDING AREAS SHALL BE ON 4" TYPE 1 AGGREGATE BASE.
5. AGGREGATE BASE DENSITY - CONTRACTOR SHALL EXERCISE GOOD COMPACTIVE EFFORT AS APPROVED BY THE ENGINEER. DENSITY REQUIREMENTS BY NUCLEAR METHOD WILL NOT BE REQUIRED DUE TO WORK AREA CONSTRAINTS.
6. CONCRETE CURB RAMP - WIDTH = 5' MIN. LENGTH = 5' MIN. TO 15' PREFERRED MAX. (16' MAX.)
   RUNNING SLOPE = >5% (MIN.) TO 8.33% (MAX.) UNIFORMLY DOWN THE LENGTH OF THE RAMP.

   CONCRETE LANDING - WIDTH = TO MATCH PROPOSED CURB RAMP AND SIDEWALK WIDTH LENGTH = 5' MIN.
   SLOPE IN ALL DIRECTIONS = 1% PREFERRED (2% MAX.) UNLESS TIED TO ROADWAY EXCEPTION.
7. ALL EXISTING UTILITIES SHALL BE USED IN PLACE UNLESS OTHERWISE NOTED. ALL MANHOLE OR VALVE COVER, ETC. ELEVATIONS SHALL BE ADJUSTED AS REQUIRED IF THEY ARE LOCATED WITHIN THE IMPROVEMENT AREA.
8. "PREFORMED FIBER JOINT" SHALL BE IN ACCORDANCE WITH SEC. 1057 FOR PREFORMED FIBER JOINT EXPANSION JOINT FILLER.
9. REINFORCING STEEL TIE BARS SHALL BE IN ACCORDANCE WITH SECTION 706. ALL REINFORCING STEEL SHALL BE EPOXY COATED AND USED AS APPROVED BY THE ENGINEER. WHERE TIE BARS ARE USED, THE CONCRETE SHALL BE 8" THICK (NO DIRECT PAY).
10. CONSTRUCTION AND LENGTH OF EACH CURB RAMP INCLUDING LANDINGS AND TRANSITION AREAS SHALL BE AS SHOWN ON THE PLANS UNLESS DIFFERING FIELD CONDITIONS ARE FOUND OR AS APPROVED BY THE ENGINEER. CURB RAMP CROSS SLOPES SHALL BE 1% PREFERRED (2% MAX.) TOWARD THE STREET. CURB RAMPS ARE TO BE FORMED UP AND HAVE A TRUE AND STRAIGHT LINE.
11. SIDEWALK AND CONCRETE CURB SHALL BE POURED MONOLITHICALLY. THE CONTRACTOR SHALL MATCH EXISTING GROUND SLOPES ADJACENT TO THE CURB RAMPS OR USE AN ALTERNATE METHOD APPROVED BY THE ENGINEER.
12. S-CURB 12"-30" HIGH (MODIFIED S-CURB) WILL REQUIRE #4 REINFORC. BARS ON MAX. 12" CENTERS - SEE DETAIL (NO DIRECT PAY)
13. SODDED SLOPES AT EDGES OF SIDEWALK OR S-CURB SHOULD BE GRADED TO BE 6:1 MIN.
14. IF THERE IS NO EXISTING CURB & GUTTER, OFFSET THE EOP 2.5' BEFORE CONSTRUCTING ANY CURBING, RAMP OR SIDEWALK.

NOT TO SCALE

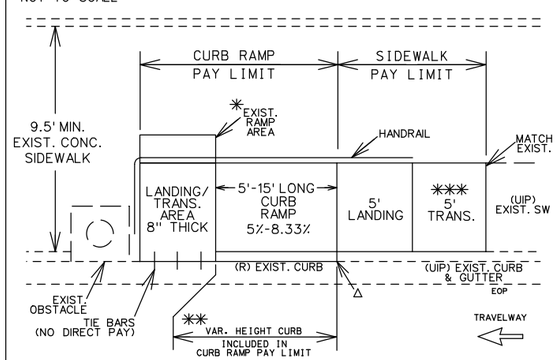


UTILITIES OR VARIOUS OBSTACLES

NO UTILITY POLES ARE ALLOWED IN THE RAMP LIMITS, BUT ARE PERMITTED IN THE LANDING AREAS AND SIDEWALK WITH A MINIMUM OF 4' CLEARANCE AROUND THE POLE

NOT TO SCALE

REVISED: 2025-06-24



△ MATCH EXIST CURB

* FILL IN WHERE EXIST. RAMP WAS. SIZE WILL VARY. (SEE TYPICAL SHEET)

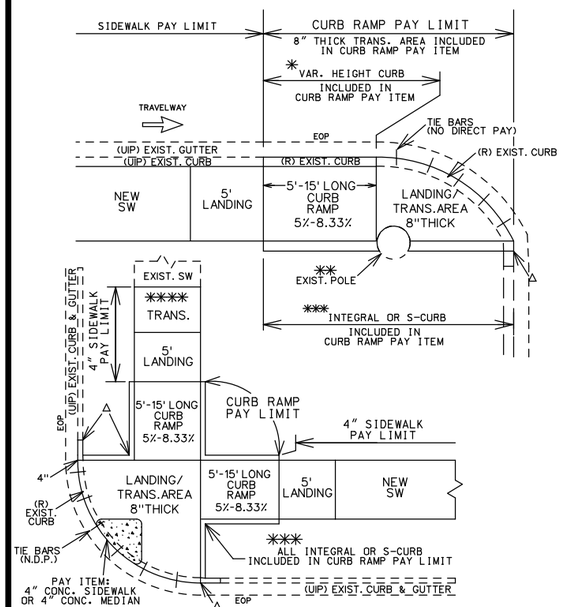
** VAR. HEIGHT CURB ALONG ROADSIDE MAY BE CONSTRUCTED MONOLITHIC OR SEPERATE DEPENDING ON CONST. OPERATIONS.

*** TRANSITION PANEL(S) TO BLEND CROSS SLOPE DISCREPENCY WARP RATE NOT TO EXCEED 0.5% PER FT

—— HANDRAIL 2' OFF E.O.P (SEE HANDRAIL STANDARDS)

CURB RAMP - IN EXISTING 9.5'+ WIDE SW

PAY LIMITS



△ MATCH EXIST CURB HEIGHT, OPTIONAL 1' TIE-IN TO EXIST CURB

* VAR. HEIGHT CURB ALONG ROADSIDE MAY BE CONST. MONOLITHIC OR SEP. DEPENDING ON CONST. OPERATIONS.

** NO UTILITY POLES ARE ALLOWED IN THE RAMP LIMITS, BUT ARE PERMITTED IN THE LANDING AND TRANSITION AREAS.

*** TYPE OF CURB WILL DEPEND ON FIELD CONDITIONS.

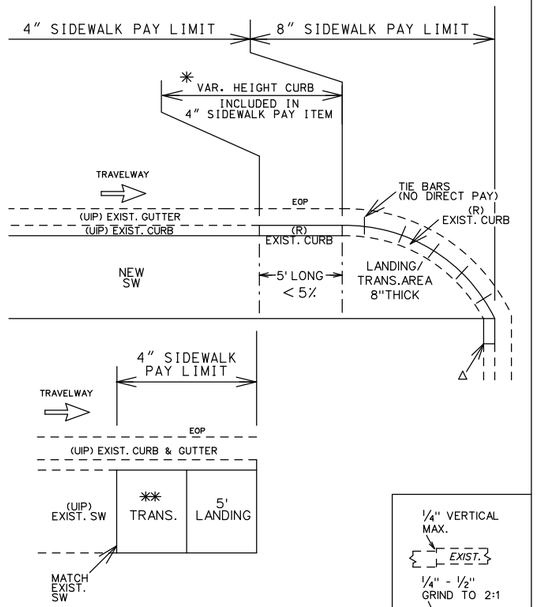
**** TRANSITION PANEL(S) TO BLEND CROSS SLOPE DISCREPENCY WARP RATE NOT TO EXCEED 0.5% PER FT

CURB RAMP

PAY LIMITS

WHEN RAMP AREA IS LONGER THAN 5' AND BETW. 5%-8.33% GRADE, IT IS CONSIDERED A CURB RAMP

NOT TO SCALE



△ MATCH EXIST CURB HEIGHT (1' TAPER FROM SIDEWALK UP TO EXIST CURB HEIGHT)

* VAR. HEIGHT CURB ALONG ROADSIDE MAY BE CONSTRUCTED MONOLITHIC OR SEPERATE DEPENDING ON CONST. OPERATIONS. DOWEL TO EXIST. GUTTER/PAVEMENT (NO DIRECT PAY).

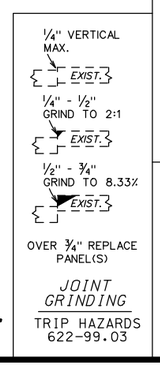
** TRANSITION PANEL(S) TO BLEND CROSS SLOPE DISCREPENCY WARP RATE NOT TO EXCEED 0.5% PER FT

SIDEWALK

PAY LIMITS

WHEN RAMP AREA IS LESS THAN 5% GRADE, IT IS CONSIDERED SIDEWALK

NOT TO SCALE

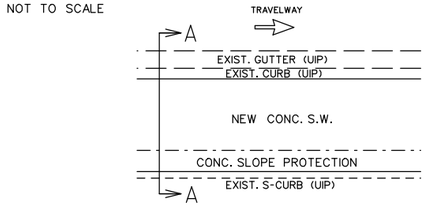


OVER 3/4" REPLACE PANEL(S)

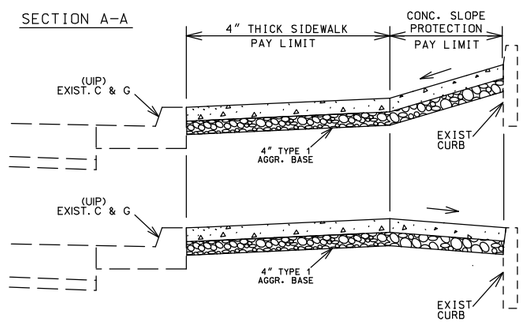
JOINT GRINDING

TRIP HAZARDS 622-99.03

NOT TO SCALE



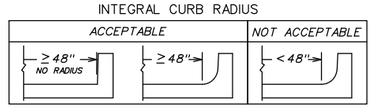
SECTION A-A



SIDEWALK WITH CONCRETE SLOPE PROTECTION

PAY LIMITS

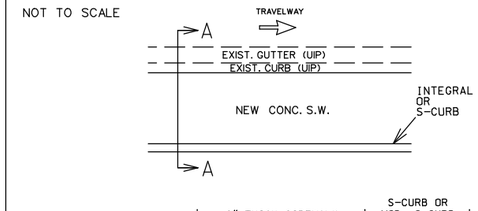
INTEGRAL CURB RADIUS



SECTION A-A

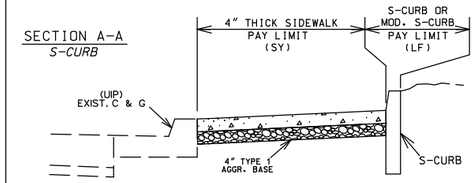
INTEGRAL CURB WITH RADIUS

NOT TO SCALE



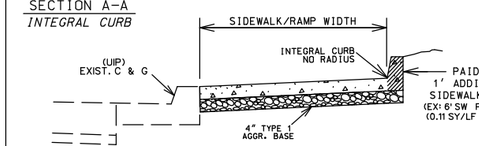
SECTION A-A

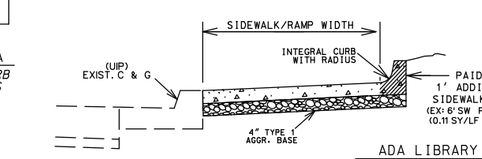
S-CURB



SECTION A-A

INTEGRAL CURB





ADA LIBRARY TYPICAL

SIDEWALK & RAMP WITH CURB

PAY LIMITS

TYPICAL SHEET
SHEET 3 OF 10

STATE OF MISSOURI
DONALD THOMAS SAKO
NUMBER PE-28475
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED: 2/13/2026

ROUTE	STATE
VAR.	MO
DISTRICT	SHEET NO.
SW	2

COUNTY: VARIOUS

JOB NO.: J7P3529

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)

GARVER, LLC.
7509 NW TIFFANY SPRINGS PARKWAY, SUITE 200
KANSAS CITY, MO 64153
PHONE: (816) 298-6465
CERTIFICATE OF AUTHORITY NO. 2008013090

REVISED: 2025-05-30

TYPE 1-A

LENGTH (LF)		8			12			16			REMARKS
WIDTH (LF)		4	5	6	4	5	6	4	5	6	
TRUNCATED DOMES	SF	–	22.0	24.0	–	22.0	24.0	–	22.0	24.0	
CURB RAMP	SY	–	10.9	13.1	–	13.6	16.3	–	16.2	19.3	
CONC. SIDEWALK	SY	–	5.6	6.3	–	5.6	6.4	–	4.9	5.7	
TYPE 1 AGGREGATE	SY	–	16.5	19.4	–	19.2	22.7	–	21.1	25.0	
ADA LINEAR GRADING	LF	–	28.0	28.0	–	34.5	34.5	–	38.0	38.0	
SODDING	SY	–	7.4	7.8	–	8.4	8.7	–	9.1	9.5	

TYPE 1-B

LENGTH (LF)		8			12			16			REMARKS
WIDTH (LF)		4	5	6	4	5	6	4	5	6	
TRUNCATED DOMES	SF	–	10.0	12.0	–	10.0	12.0	–	10.0	12.0	
CURB RAMP	SY	–	8.8	10.3	–	11.5	13.4	–	14.1	16.5	
CONC. SIDEWALK	SY	–	5.6	6.4	–	5.6	6.4	–	4.9	5.7	
TYPE 1 AGGREGATE	SY	–	14.4	16.7	–	17.1	19.8	–	19.0	22.1	
ADA LINEAR GRADING	LF	–	22.0	22.0	–	26.5	26.5	–	30.0	30.0	
SODDING	SY	–	11.5	11.7	–	13.5	13.5	–	15.0	15.2	

TYPE 1-C

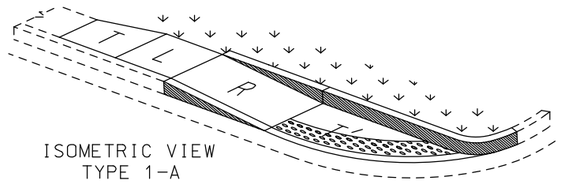
LENGTH (LF)		8			12			16			REMARKS
WIDTH (LF)		4	5	6	4	5	6	4	5	6	
TRUNCATED DOMES	SF	–	18.0	24.0	–	18.0	24.0	–	18.0	24.0	
CURB RAMP	SY	–	18.6	22.8	–	24.0	29.0	–	29.3	35.3	
CONC. SIDEWALK	SY	–	11.2	12.8	–	11.2	12.8	–	9.8	11.4	
TYPE 1 AGGREGATE	SY	–	29.8	35.6	–	35.2	41.8	–	39.1	46.7	
ADA LINEAR GRADING	LF	–	42.0	50.0	–	57.0	61.0	–	67.0	72.0	
SODDING	SY	–	11.0	11.3	–	13.0	13.3	–	14.5	14.9	

TYPE 1-D

LENGTH (LF)		8			12			16			REMARKS
WIDTH (LF)		4	5	6	4	5	6	4	5	6	
TRUNCATED DOMES	SF	–	18.0	24.0	–	18.0	24.0	–	18.0	24.0	
CURB RAMP	SY	–	14.8	19.0	–	20.1	25.2	–	25.5	31.4	
CONC. SIDEWALK	SY	–	11.2	12.8	–	11.2	12.8	–	9.8	11.4	
TYPE 1 AGGREGATE	SY	–	26.0	31.8	–	31.3	38.0	–	35.3	42.8	
ADA LINEAR GRADING	LF	–	43.0	46.0	–	52.0	55.0	–	59.0	62.0	
SODDING	SY	–	13.3	13.6	–	16.0	16.9	–	18.6	19.3	

TYPE 1-E

LENGTH (LF)		8			12			16			REMARKS
WIDTH (LF)		4	5	6	4	5	6	4	5	6	
TRUNCATED DOMES	SF	–	14.0	16.0	–	14.0	16.0	–	14.0	16.0	
CURB RAMP	SY	–	15.5	19.0	–	20.8	25.2	–	26.2	31.4	
CONC. SIDEWALK	SY	–	11.2	12.8	–	11.2	12.8	–	9.8	11.4	
TYPE 1 AGGREGATE	SY	–	26.7	31.8	–	32.0	38.0	–	36.0	42.8	
ADA LINEAR GRADING	LF	–	43.0	46.0	–	52.0	55.0	–	59.0	62.0	
SODDING	SY	–	18.4	18.8	–	22.4	22.8	–	25.6	25.9	



ISOMETRIC VIEW
TYPE 1-A

T' - IS TO BE 8" THICK AT ALL PAVED APPROACHES AND STREETS IF WITHIN THE RADIUS. PAID FOR AS CONCRETE CURB RAMP

T - TRANSITION TO EXISTING SW OR PAVED APPROACH (LANDING PREFERED AT PAVED APPROACH IF CONDITIONS ALLOW)

* - T IS STILL NEEDED EVEN IF THE EXISTING SIDEWALK IS THE SAME WIDTH AS THE NEW SIDEWALK.(IT WILL BLEND THE EXIST XSLOPE INTO THE NEW LANDING XSLOPE)

L - LANDING

R - RAMP

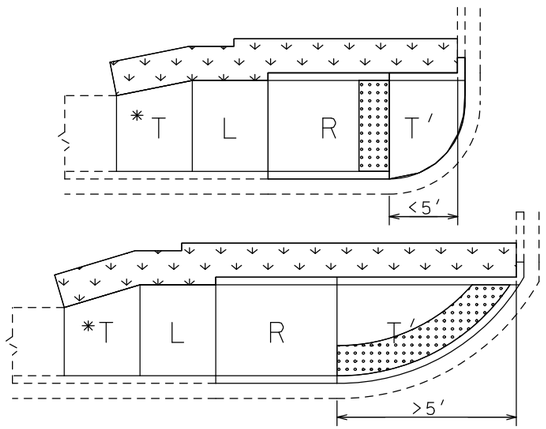
- CURB RAMP PAY LIMITS

- SOD SLOPE 6:1 MIN.

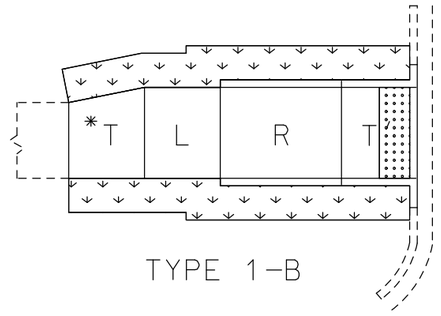
- TRUNCATED DOME LOCATION IF DIST. IS <5' OR >5'

TRUNCATED DOMES ARE USED ONLY AT STREETS & ENTRANCES UTILIZING YIELD / STOP SIGNS OR SIGNALS

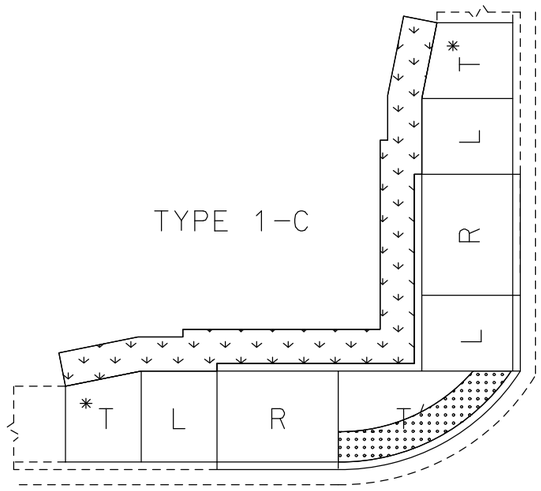
NOTE:
QUANTITIES ARE CALCULATED BY AREA AND MAY NOT MATCH EXACT FIELD CONDITIONS.



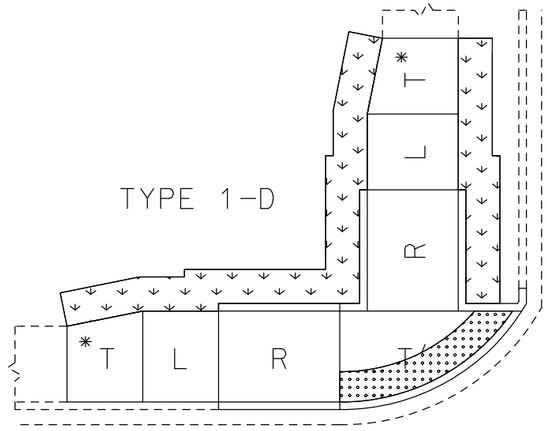
TYPE 1-A



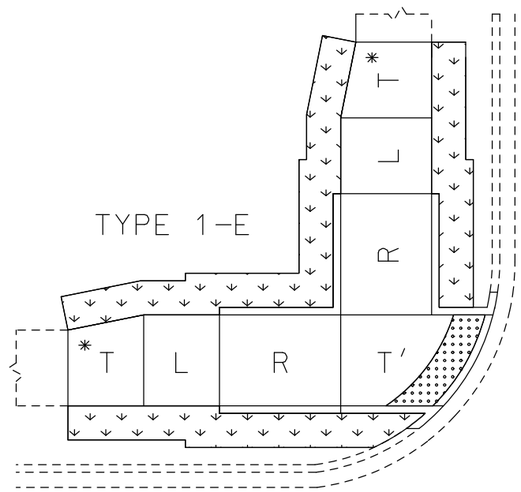
TYPE 1-B



TYPE 1-C



TYPE 1-D



TYPE 1-E

ADA LIBRARY TYPICAL

TYPE 1

PERPENDICULAR CURB RAMPS

TYPICAL SHEET 4 OF 10

STATE OF MISSOURI
DONALD THOMAS SAKO
NUMBER PE-28475
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED
2/13/2026

ROUTE	STATE
VAR.	MO
DISTRICT	SHEET NO.
SW	2

COUNTY
VARIOUS

JOB NO.
J7P3529

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)

GARVER, LLC.
7509 NW TIFFANY SPRINGS
PARKWAY, SUITE 200
KANSAS CITY, MO 64153
PHONE: (816) 298-6465
CERTIFICATE OF AUTHORITY
NO. 2008013090

GARVER

c:\projectwise\garver-pw.bentley.com_garver-pw-01\d0163749\002_TS_04_J7P3529_T5_ADA_TYPE1_PERPENDICULAR.dgn 2:23:34 PM 2/13/2026

REVISED: 2025-05-30

PARALLEL - TYPE 2

TYPE 2-A

LENGTH (LF)	8			12			16			REMARKS
WIDTH (LF)	4	5	6	4	5	6	4	5	6	
TRUNCATED DOMES SF	-	10.0	10.0	-	10.0	10.0	-	10.0	10.0	
CURB RAMP SY	-	9.1	10.6	-	11.8	13.7	-	14.4	16.8	
CONC. SIDEWALK SY	-	5.6	6.4	-	4.9	5.7	-	4.9	5.7	
TYPE 1 AGGREGATE SY	-	14.7	17.0	-	16.7	19.4	-	19.3	22.5	
ADA LINEAR GRADING LF	-	26.0	26.0	-	29.0	29.0	-	33.0	33.0	
SODDING SY	-	8.0	8.3	-	8.6	8.8	-	9.6	9.8	

TYPE 2-B

LENGTH (LF)	8			12			16			REMARKS
WIDTH (LF)	4	5	6	4	5	6	4	5	6	
TRUNCATED DOMES SF	-	10.0	10.0	-	10.0	10.0	-	10.0	10.0	
CURB RAMP SY	-	11.8	13.3	-	14.5	16.4	-	17.2	19.5	
CONC. SIDEWALK SY	-	5.6	6.4	-	4.9	5.7	-	4.9	5.7	
TYPE 1 AGGREGATE SY	-	17.4	19.7	-	19.4	22.1	-	22.1	25.2	
ADA LINEAR GRADING LF	-	26.0	26.0	-	29.0	29.0	-	33.0	33.0	
SODDING SY	-	13.8	14.1	-	15.1	15.5	-	17.1	17.5	

TYPE 2-C

LENGTH (LF)	8			12			16			REMARKS
WIDTH (LF)	4	5	6	4	5	6	4	5	6	
TRUNCATED DOMES SF	-	10.0	10.0	-	10.0	10.0	-	10.0	10.0	
CURB RAMP SY	-	16.4	18.7	-	21.7	24.9	-	27.0	31.2	
CONC. SIDEWALK SY	-	11.2	12.8	-	9.8	11.4	-	9.8	11.4	
TYPE 1 AGGREGATE SY	-	27.6	31.5	-	31.5	36.3	-	36.8	42.6	
ADA LINEAR GRADING LF	-	41.0	41.0	-	47.0	47.0	-	55.0	55.0	
SODDING SY	-	12.3	12.5	-	13.6	13.9	-	15.6	15.9	

TYPE 2-D

LENGTH (LF)	8			12			16			REMARKS
WIDTH (LF)	4	5	6	4	5	6	4	5	6	
TRUNCATED DOMES SF	-	10.0	10.0	-	10.0	10.0	-	10.0	10.0	
CURB RAMP SY	-	16.8	19.2	-	22.2	25.4	-	27.5	31.6	
CONC. SIDEWALK SY	-	11.2	12.8	-	9.8	11.4	-	9.8	11.4	
TYPE 1 AGGREGATE SY	-	28.0	32.0	-	32.0	36.8	-	37.3	43.0	
ADA LINEAR GRADING LF	-	41.0	41.0	-	47.0	47.0	-	55.0	55.0	
SODDING SY	-	20.2	20.3	-	22.4	23.2	-	26.4	27.2	

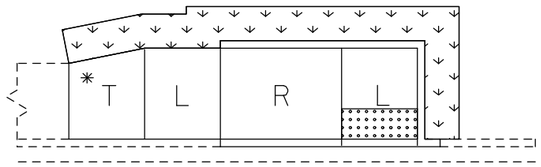
TYPE 2-E

LENGTH (LF)	8			12			16			REMARKS
WIDTH (LF)	4	5	6	4	5	6	4	5	6	
TRUNCATED DOMES SF	-	10.0	10.0	-	10.0	10.0	-	10.0	10.0	
CURB RAMP SY	-	10.8	11.5	-	13.2	14.4	-	15.7	17.3	
CONC. SIDEWALK SY	-	5.6	6.7	-	5.0	6.0	-	5.0	6.0	
TYPE 1 AGGREGATE SY	-	16.4	18.2	-	18.2	20.4	-	20.7	23.3	
ADA LINEAR GRADING LF	-	22.5	22.5	-	26.5	26.5	-	30.5	30.5	
SODDING SY	-	-	-	-	-	-	-	-	-	
HANDRAIL LF	-	-	-	-	-	-	-	-	-	SEE STANDARDS FOR LENGTH

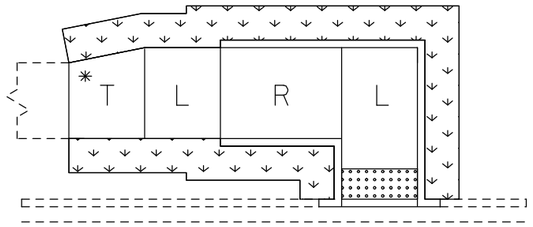
TYPE 2-F

LENGTH (LF)	8			12			16			REMARKS
WIDTH (LF)	4	5	6	4	5	6	4	5	6	
TRUNCATED DOMES SF	-	10.0	10.0	-	10.0	10.0	-	10.0	10.0	
CURB RAMP SY	-	15.5	17.1	-	20.4	23.1	-	25.5	28.9	
CONC. SIDEWALK SY	-	11.2	13.4	-	10.0	12.0	-	10.0	12.0	
TYPE 1 AGGREGATE SY	-	26.7	30.5	-	30.4	35.1	-	35.5	40.9	
ADA LINEAR GRADING LF	-	39.0	39.0	-	47.0	47.0	-	55.0	55.0	
SODDING SY	-	-	-	-	-	-	-	-	-	
HANDRAIL LF	-	-	-	-	-	-	-	-	-	SEE STANDARDS FOR LENGTH

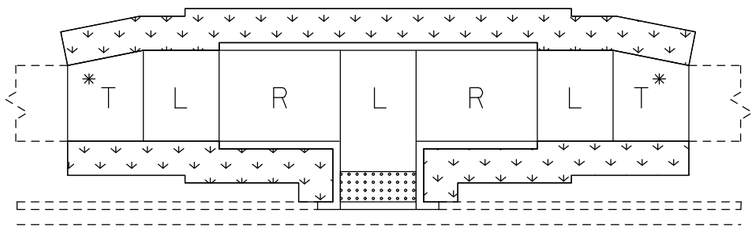
NOTE:
QUANTITIES ARE CALCULATED BY AREA AND MAY NOT MATCH EXACT FIELD CONDITIONS.



TYPE 2-A



TYPE 2-B



TYPE 2-D

** 3.5' LANDING EXTENSION REQ'D. FOR INSTALLATION OF FUTURE OR NEW PED. PUSH BUTTON

NOTE: SEE STANDARDS FOR ALL PED. PUSH BUTTON LOCATIONS

- TRUNCATED DOMES

TRUNCATED DOMES ARE USED ONLY AT STREETS & ENTRANCES UTILIZING YIELD / STOP SIGNS OR SIGNALS

T - TRANSITION TO EXISTING SW

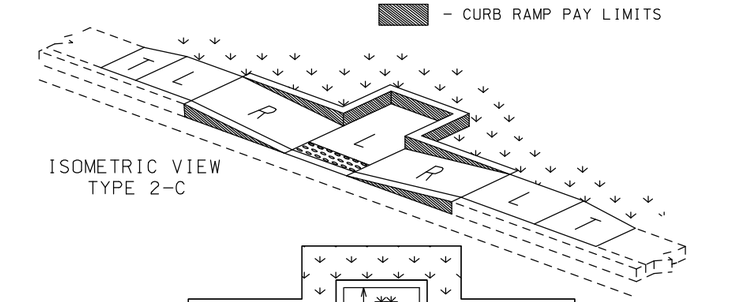
* - T IS STILL NEEDED EVEN IF THE EXISTING SIDEWALK IS THE SAME WIDTH AS THE NEW SIDEWALK. (IT WILL BLEND THE EXIST XSLOPE INTO THE NEW LANDING XSLOPE)

L - LANDING

R - RAMP

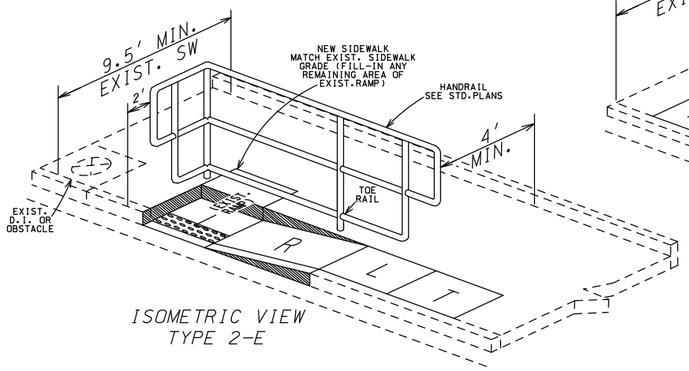
- SOD SLOPE 6:1 MIN.

- CURB RAMP PAY LIMITS

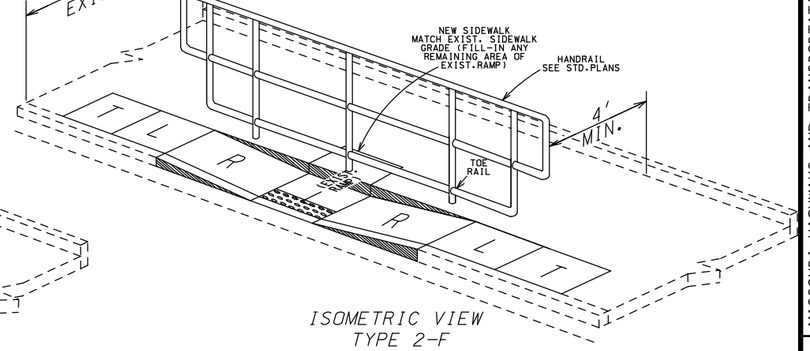


ISOMETRIC VIEW
TYPE 2-C

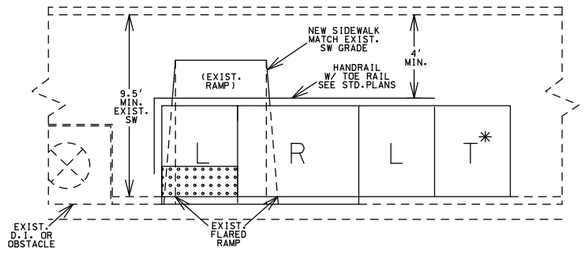
TYPE 2-C



ISOMETRIC VIEW
TYPE 2-E



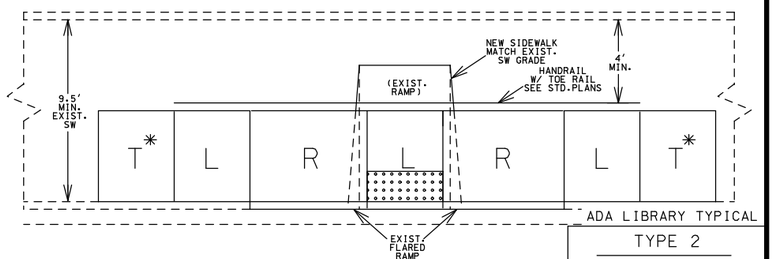
ISOMETRIC VIEW
TYPE 2-F



TYPE 2-E

USE ONLY WHEN TYPE 2-F IS UNABLE TO BE CONSTRUCTED DUE TO AN EXIST. D.I. OR OTHER OBSTACLE

SEE STANDARDS FOR HANDRAIL SPECS



ADA LIBRARY TYPICAL

TYPE 2-F

SEE STANDARDS FOR HANDRAIL SPECS

TYPE 2
PARALLEL CURB RAMPS

TYPICAL SHEET 5 OF 10

STATE OF MISSOURI
DONALD THOMAS SAKO
NUMBER PE-28475
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED 2/13/2026

ROUTE	STATE
VAR.	MO
DISTRICT	SHEET NO.
SW	2

COUNTY: VARIOUS
JOB NO.: J7P3529
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)

GARVER, LLC.
7509 NW TIFFANY SPRINGS PARKWAY, SUITE 200
KANSAS CITY, MO 64153
PHONE: (816) 298-6465
CERTIFICATE OF AUTHORITY NO. 2008013090

GARVER

PARALLEL – TYPE 2 (cont'd.)

TYPE 2-G

LENGTH (LF) / WIDTH (LF)		8			12			16			REMARKS
		4	5	6	4	5	6	4	5	6	
TRUNCATED DOMES	SF	–	12.0	12.0	–	10.0	10.0	–	10.0	10.0	
CURB RAMP	SY	–	15.7	18.0	–	20.8	23.7	–	25.8	30.2	
CONC. SIDEWALK	SY	–	21.4	25.0	–	17.6	20.3	–	15.2	17.5	
TYPE 1 AGGREGATE	SY	–	37.1	43.0	–	38.4	44.0	–	41.0	47.7	
ADA LINEAR GRADING	LF	–	52.0	52.0	–	54.0	54.0	–	58.0	58.0	
SODDING	SY	–	13.6	13.6	–	13.7	13.5	–	14.5	14.9	

TYPE 2-H

LENGTH (LF) / WIDTH (LF)		8			12			16			REMARKS
		4	5	6	4	5	6	4	5	6	
TRUNCATED DOMES	SF	–	12.0	12.0	–	10.0	10.0	–	10.0	10.0	
CURB RAMP	SY	–	15.7	18.0	–	21.0	24.5	–	26.9	31.4	
CONC. SIDEWALK	SY	–	13.2	16.0	–	12.0	14.2	–	12.0	14.4	
TYPE 1 AGGREGATE	SY	–	28.9	34.0	–	33.0	38.6	–	38.9	45.8	
ADA LINEAR GRADING	LF	–	42.0	42.0	–	49.0	49.0	–	55.0	55.0	
SODDING	SY	–	11.1	11.2	–	12.5	12.5	–	14.5	14.9	

T* – IS STILL NEEDED EVEN IF THE EXISTING SIDEWALK IS THE SAME WIDTH AS THE NEW SIDEWALK.(IT WILL BLEND THE EXIST XSLOPE INTO THE NEW LANDING XSLOPE)

REVISED: 2025-05-30

T – TRANSITION TO EXISTING SW

L – LANDING

R – RAMP

– SOD SLOPE 6:1 MIN.

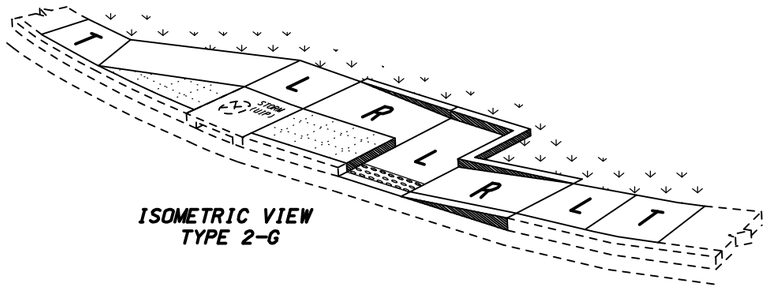
– TRUNCATED DOME LOCATION, IF DIST. IS <5' OR > 5'

TRUNCATED DOMES ARE USED ONLY AT STREETS & ENTRANCES UTILIZING YIELD / STOP SIGNS OR SIGNALS

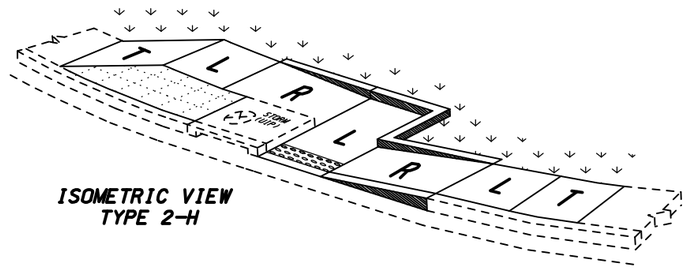
– CURB RAMP PAY LIMITS

– INCLUDED IN 4" CONC. SIDEWALK PAY LIMIT

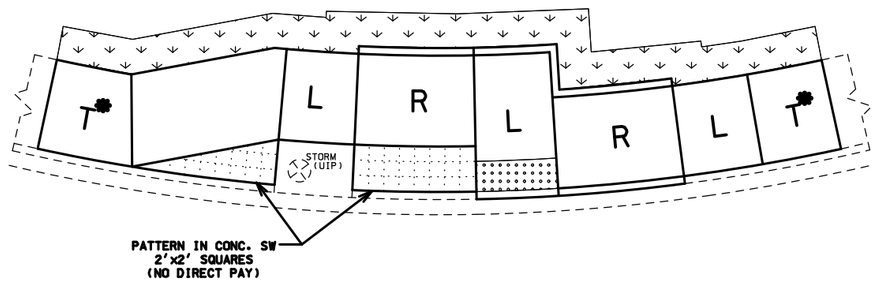
NOTE:
QUANTITIES ARE CALCULATED BY AREA AND MAY NOT MATCH EXACT FIELD CONDITIONS.



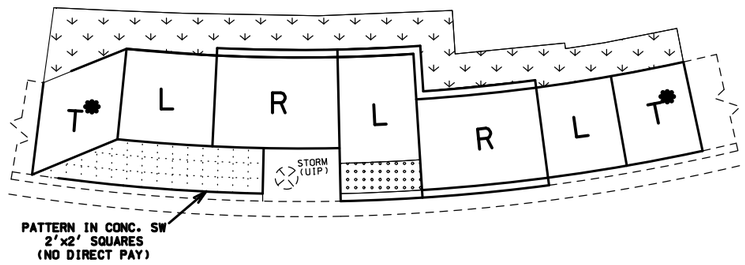
ISOMETRIC VIEW TYPE 2-G



ISOMETRIC VIEW TYPE 2-H



TYPE 2-G



TYPE 2-H

ADA LIBRARY TYPICAL

TYPE 2

PARALLEL CURB RAMPS

TYPICAL SHEET 6 OF 10

STATE OF MISSOURI
DONALD THOMAS SAIKO
NUMBER PE-28475
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED: 2/13/2026

ROUTE	STATE
VAR.	MO
DISTRICT	SHEET NO.
SW	2

COUNTY: VARIOUS

JOB NO.: J7P3529

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)

GARVER, LLC.
7509 NW TIFFANY SPRINGS
PARKWAY, SUITE 200
KANSAS CITY, MO 64153
PHONE: (816) 298-6465
CERTIFICATE OF AUTHORITY
NO. 2008013090

GARVER

DIAGONAL – TYPE 3

TYPE 3-A

LENGTH (LF) / WIDTH (LF)	8			12			16			REMARKS
	4	5	6	4	5	6	4	5	6	
TRUNCATED DOMES SF	–	24.0	28.0	–	20.6	25.0	–	20.6	25.0	
CURB RAMP SY	–	24.4	27.0	–	26.9	31.2	–	32.2	37.4	
CONC. SIDEWALK SY	–	11.2	12.8	–	9.8	11.4	–	9.8	11.4	
TYPE 1 AGGREGATE SY	–	35.6	39.8	–	36.7	42.6	–	42.0	48.8	
ADA LINEAR GRADING LF	–	51.0	51.0	–	59.0	59.0	–	67.0	67.0	
SODDING SY	–	11.6	11.4	–	12.9	12.9	–	14.9	14.9	
4"SW OR MED STRIP SY	–	3.0	2.2	–	3.0	2.2	–	3.0	2.2	

TYPE 3-B

LENGTH (LF) / WIDTH (LF)	8			12			16			REMARKS
	4	5	6	4	5	6	4	5	6	
TRUNCATED DOMES SF	–	24.0	28.0	–	20.6	25.0	–	20.6	25.0	
CURB RAMP SY	–	22.0	26.3	–	25.9	31.2	–	31.2	37.4	
CONC. SIDEWALK SY	–	11.2	12.8	–	9.8	11.4	–	9.8	11.4	
TYPE 1 AGGREGATE SY	–	33.2	39.1	–	35.7	42.6	–	41.0	48.8	
ADA LINEAR GRADING LF	–	51.0	51.0	–	59.0	59.0	–	67.0	67.0	
SODDING SY	–	15.2	15.3	–	17.1	17.5	–	20.1	20.5	
4"SW OR MED STRIP SY	–	1.5	1.5	–	1.5	1.5	–	1.5	1.5	

TYPE 3-C

LENGTH (LF) / WIDTH (LF)	8			12			16			REMARKS
	4	5	6	4	5	6	4	5	6	
TRUNCATED DOMES SF	–	20.0	24.0	–	20.0	24.0	–	20.0	24.0	
CURB RAMP SY	–	20.7	26.8	–	25.1	31.5	–	30.4	37.7	
CONC. SIDEWALK SY	–	11.2	12.8	–	9.8	11.4	–	9.8	11.4	
TYPE 1 AGGREGATE SY	–	31.9	39.6	–	34.9	42.9	–	40.2	49.1	
ADA LINEAR GRADING LF	–	51.0	51.0	–	58.0	58.0	–	67.0	67.0	
SODDING SY	–	18.8	19.3	–	21.3	22.1	–	25.3	26.1	
4"SW OR MED STRIP SY	–	1.0	1.6	–	1.0	1.6	–	1.0	1.6	

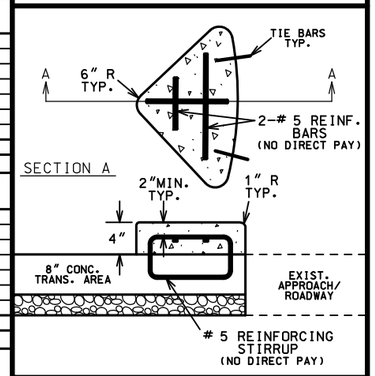
TYPE 3-D

LENGTH (LF) / WIDTH (LF)	8			12			16			REMARKS
	4	5	6	4	5	6	4	5	6	
TRUNCATED DOMES SF	–	24.0	28.0	–	22.4	26.5	–	22.4	26.5	
CURB RAMP SY	–	15.9	19.1	–	17.7	21.4	–	20.4	24.5	
CONC. SIDEWALK SY	–	5.6	6.4	–	4.9	5.7	–	4.9	5.7	
TYPE 1 AGGREGATE SY	–	21.5	25.5	–	22.6	27.1	–	25.3	30.2	
ADA LINEAR GRADING LF	–	31.0	31.0	–	34.0	34.0	–	38.0	38.0	
SODDING SY	–	12.6	12.9	–	13.5	14.0	–	15.5	16.0	
4"SW OR MED STRIP SY	–	1.0	0.8	–	1.0	0.8	–	1.0	0.8	

TYPE 3-E

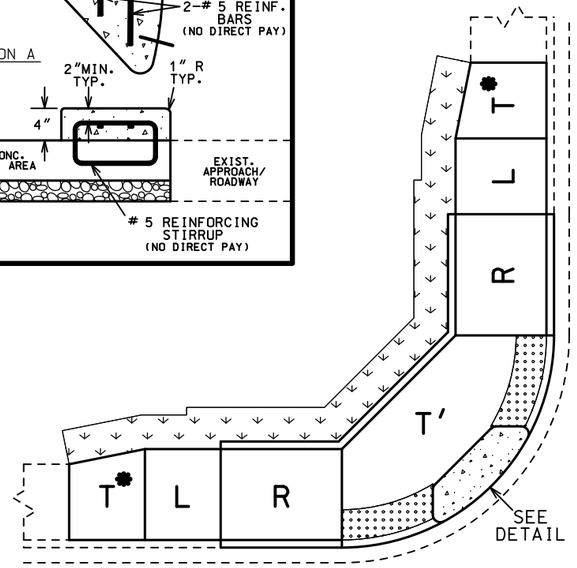
LENGTH (LF) / WIDTH (LF)	8			12			16			REMARKS
	4	5	6	4	5	6	4	5	6	
TRUNCATED DOMES SF	–	20.0	24.0	–	20.0	24.0	–	20.0	24.0	
CURB RAMP SY	–	17.2	19.8	–	17.7	21.4	–	20.4	24.5	
CONC. SIDEWALK SY	–	8.4	10.7	–	7.3	9.4	–	7.3	9.4	
TYPE 1 AGGREGATE SY	–	25.6	30.5	–	25.0	30.8	–	27.7	33.9	
ADA LINEAR GRADING LF	–	30.0	30.0	–	35.5	35.5	–	39.5	39.5	
SODDING SY	–	12.4	12.4	–	12.9	13.3	–	14.9	15.3	
4"SW OR MED STRIP SY	–	1.6	1.6	–	1.6	1.6	–	1.6	1.6	

– DETAIL – 4" SIDEWALK OR 4" MEDIAN STRIP



T′– IS TO BE 8" THICK AT ALL PAVED APPROACHES AND STREETS IF WITHIN THE RADIUS. PAID FOR AS CONCRETE CURB RAMP

NOTE:
QUANTITIES ARE CALCULATED BY AREA AND MAY NOT MATCH EXACT FIELD CONDITIONS.



TYPE 3-A

T – TRANSITION TO EXISTING SW OR PAVED APPROACH (LANDING PREFERED IF CONDITIONS ALLOW)

T* – IS STILL NEEDED EVEN IF THE EXISTING SIDEWALK IS THE SAME WIDTH AS THE NEW SIDEWALK.(IT WILL BLEND THE EXIST XSLOPE WITH THE NEW LANDING XSLOPE)

L – LANDING

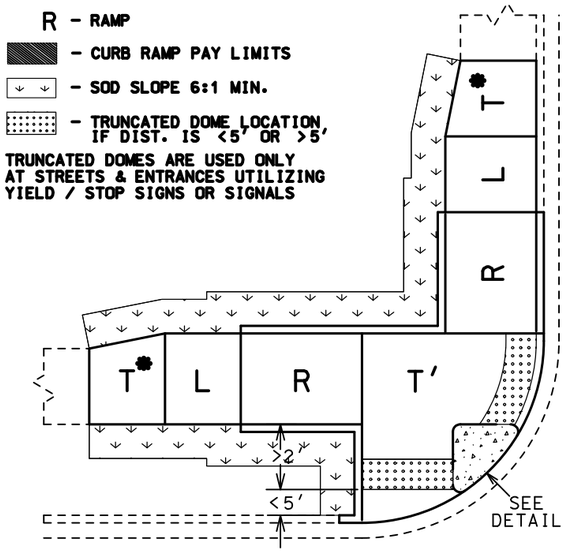
R – RAMP

– CURB RAMP PAY LIMITS

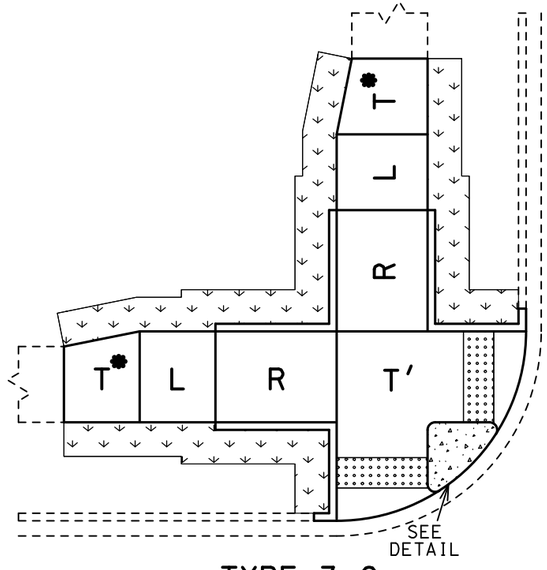
– SOD SLOPE 6:1 MIN.

– TRUNCATED DOME LOCATION, IF DIST. IS <5′ OR >5′

TRUNCATED DOMES ARE USED ONLY AT STREETS & ENTRANCES UTILIZING YIELD / STOP SIGNS OR SIGNALS

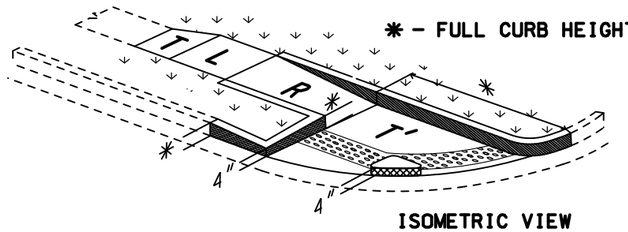


TYPE 3-B

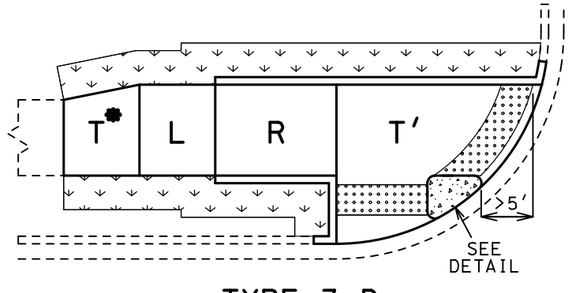


TYPE 3-C

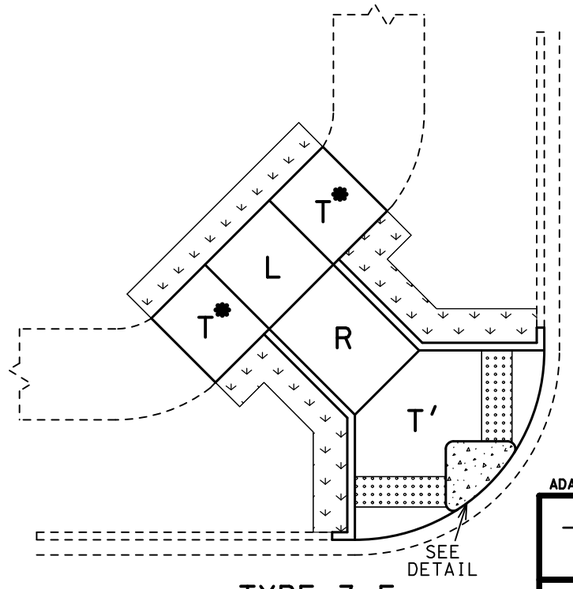
✱ – FULL CURB HEIGHT



ISOMETRIC VIEW TYPE 3-D



TYPE 3-D



TYPE 3-E

REVISED: 2025-06-09

STATE OF MISSOURI
DONALD THOMAS SAIKO
NUMBER PE-28475
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED: 2/13/2026
ROUTE: VAR. | STATE: MO
DISTRICT: SW | SHEET NO.: 2
COUNTY: VARIOUS
JOB NO.: J7P3529
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)

GARVER, LLC.
7509 NW TIFFANY SPRINGS PARKWAY, SUITE 200
KANSAS CITY, MO 64153
PHONE: (816) 298-6465
CERTIFICATE OF AUTHORITY NO. 2008013090

ADA LIBRARY TYPICAL

TYPE 3
DIAGONAL CURB RAMPS

TYPICAL SHEET 7 OF 10

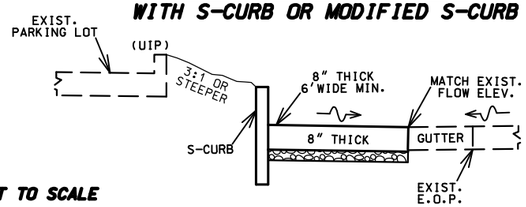
REVISED: 2022-05-16

NOTES FOR MODIFIED SIDEWALK:

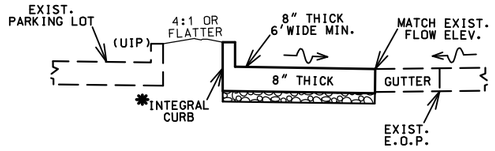
1. REMOVE EXIST. CURB & RAISED ISLAND WITHIN LIMITS SHOWN.
2. AREA INSIDE FINAL CURB TO BE REPAIRED OR REPLACED WITH EXISTING SURFACE MATERIAL. GRADE TO DRAIN.
3. CONSTRUCT 8" THICK CONC. SIDEWALK FLUSH WITH EXIST. CONC. PAVED APPROACH.
4. CONSTRUCT CURB ADJACENT TO MODIFIED SIDEWALK.
5. MODIFIED SIDEWALK PAID FOR AS 8" SIDEWALK.
6. 6' MINIMUM WIDTH.
7. NO DIRECT PAY FOR SAW CUTS AND TIE BARS (ON 12" CENTERS MAX.)
8. TRUNCATED DOMES ARE USED ONLY AT STREETS & ENTRANCES UTILIZING STOP SIGNS OR SIGNALS.
9. X-SLOPE 1% PREFERRED (2% MAX.)
10. USE S-CURB IF CONSTRUCTING CURB ON R/W LINE.

✱ INTEGRAL CURB IS PAID FOR WITH THE 8" CONC. SIDEWALK PAY ITEM.
INTEGRAL CURB IS PAID AS 1' ADDITIONAL SIDEWALK WIDTH (EX. 6'SIDEWALK PAID AS 7')
(0.11 SY/LF OF CURB)

SECTION A-A
WITH S-CURB OR MODIFIED S-CURB



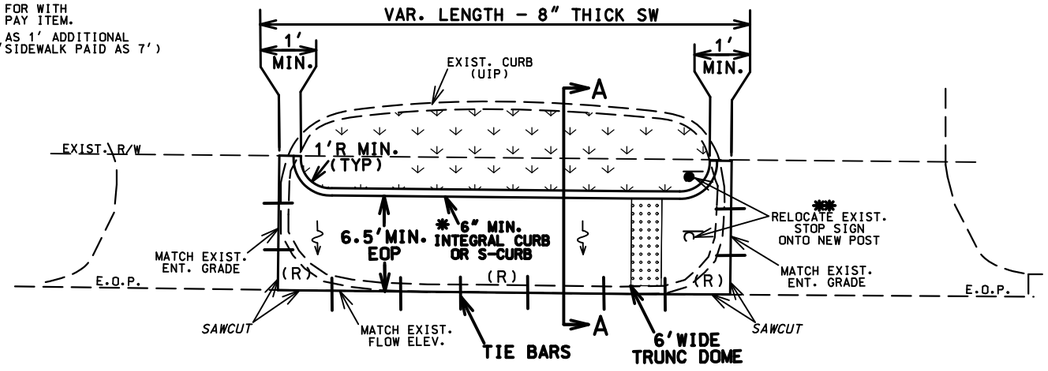
SECTION A-A
WITH INTEGRAL CURB



NOT TO SCALE

TYPICAL MODIFIED SIDEWALK
8" THICK

✱✱ TRUNCATED DOMES ARE USED ONLY AT STREETS & ENTRANCES UTILIZING STOP/YIELD SIGNS OR SIGNALS.

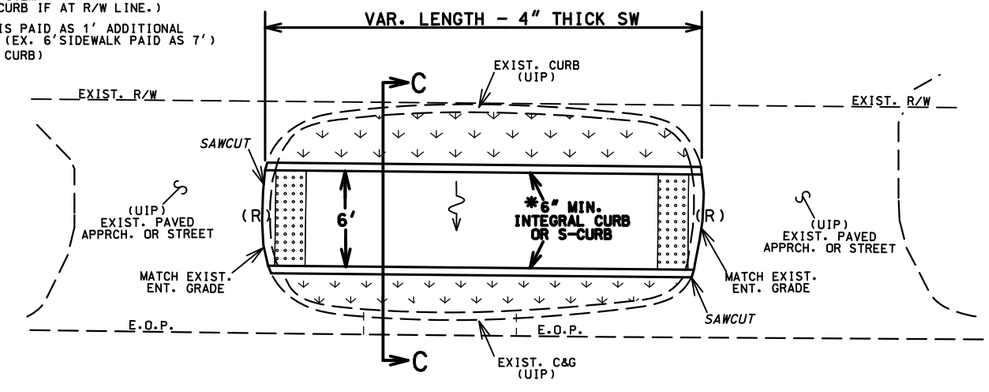


NOTES FOR CUT-THRU SIDEWALK:

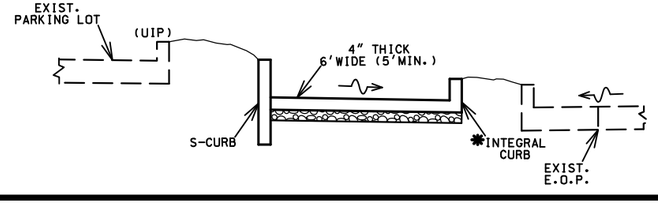
1. REMOVE EXIST. CURB & RAISED ISLAND WITHIN LIMITS SHOWN.
2. AREA INSIDE FINAL CURB TO BE REPAIRED OR REPLACED WITH EXISTING SURFACE MATERIAL. GRADE TO DRAIN.
3. CONSTRUCT 4" THICK CONC. SIDEWALK FLUSH WITH EXIST. CONC. PAVED APPROACH.
4. CONSTRUCT CURB ON BOTH SIDES ADJACENT TO SIDEWALK.
5. CUT-THRU SIDEWALK PAID FOR AS 4" SIDEWALK.
6. 6' PREFERRED WIDTH (5' MIN.)
7. SAW CUTS (NO DIRECT PAY).
8. TRUNCATED DOMES ARE USED ONLY AT STREETS & ENTRANCES UTILIZING STOP SIGNS OR SIGNALS.
9. X-SLOPE 1% PREFERRED (2% MAX.)
10. USE S-CURB IF CONSTRUCTING CURB ON R/W LINE.

✱ INTEGRAL CURB IS PAID FOR AS 4" CONC. SIDEWALK PAY ITEM. S-CURB IS PAID FOR AS ITS OWN PAY ITEM. (ALWAYS USE S-CURB IF AT R/W LINE.)
INTEGRAL CURB IS PAID AS 1' ADDITIONAL SIDEWALK WIDTH (EX. 6'SIDEWALK PAID AS 7')
(0.11 SY/LF OF CURB)

TYPICAL CUT-THRU SIDEWALK



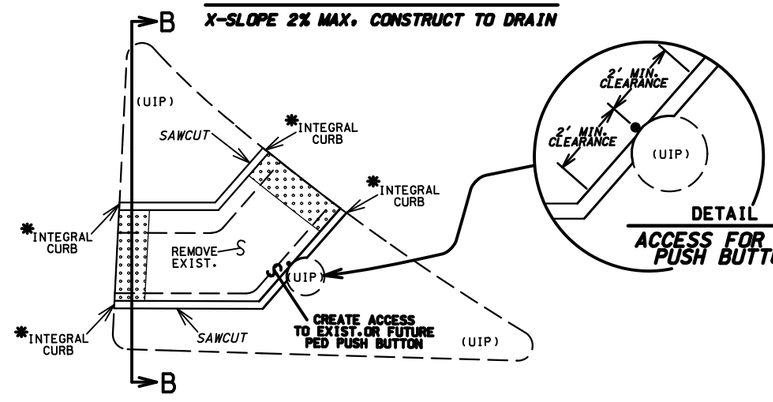
SECTION C-C
WITH S-CURB OR INTEGRAL



NOT TO SCALE

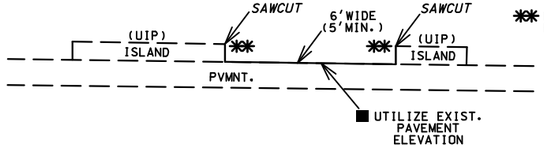
NOT TO SCALE

TYPICAL ISLAND CUT-THRU SIDEWALK
X-SLOPE 2% MAX. CONSTRUCT TO DRAIN



DETAIL
ACCESS FOR PED PUSH BUTTON

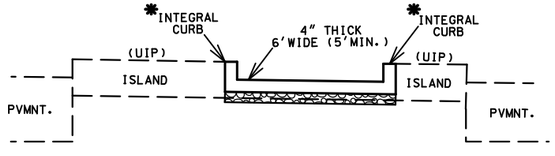
SECTION B-B
ISLAND CUT-THRU SIDEWALK FOR EXISTING 'PINNED-ON' ISLAND



■ SMALL QTY. HAS BEEN INCLUDED FOR 8" THICK SIDEWALK TO ADDRESS ANY UNFORSEEN PVMNT. REPAIRS OR DIFFERENCES IN ELEVATION. (UNDERRUN IF FIELD CONDITIONS DO NOT WARRANT)

✱✱ NO INTEGRAL CURB, AGGR. OR LIN. GRADING REQUIRED IF THE ISLAND IS 'PINNED-ON'

SECTION B-B
ISLAND CUT-THRU SIDEWALK



✱ INTEGRAL CURB IS PAID FOR WITH THE 4" CONC. SIDEWALK PAY ITEM.
INTEGRAL CURB IS PAID AS 1' ADDITIONAL SIDEWALK WIDTH (EX. 6'SIDEWALK PAID AS 7')
(0.11 SY/LF OF CURB)

ADA LIBRARY TYPICAL

MODIFIED SIDEWALK AND SIDEWALK CUT-THRUs

TYPICAL SHEET 8 OF 10

STATE OF MISSOURI
DONALD THOMAS SAIKO
NUMBER PE-28475
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED	2/13/2026
ROUTE	VAR.
STATE	MO
DISTRICT	SW
SHEET NO.	2
COUNTY	VARIOUS
JOB NO.	J7P3529
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)

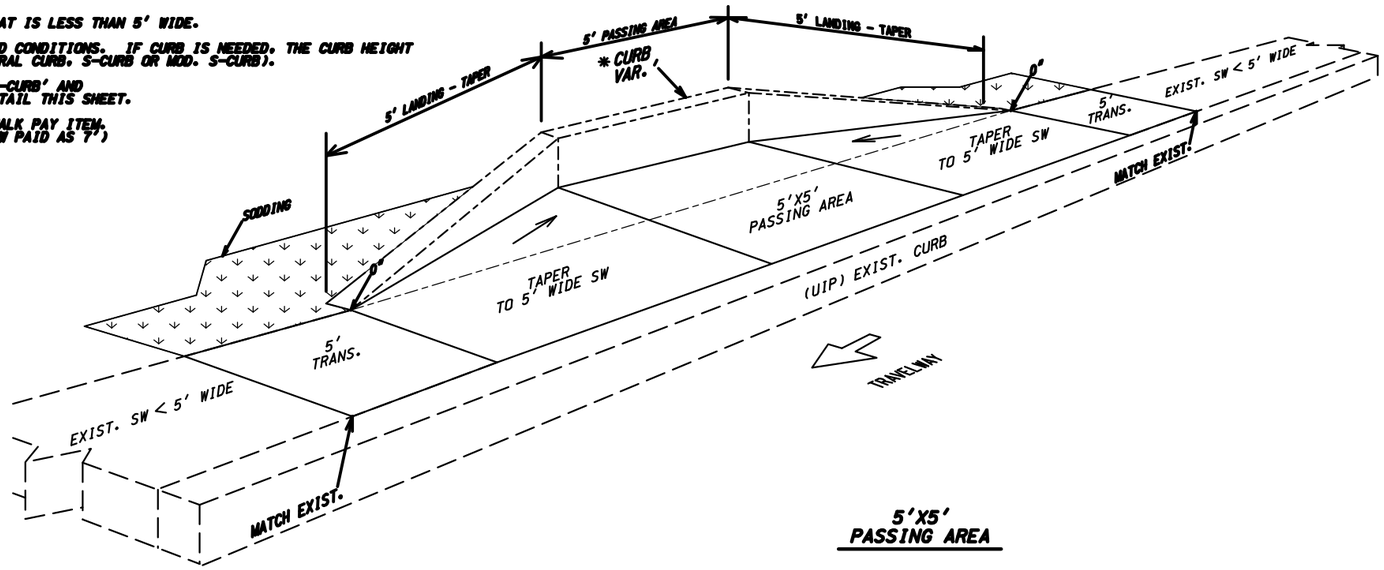
GARVER, LLC.
7509 NW TIFFANY SPRINGS PARKWAY, SUITE 200
KANSAS CITY, MO 64153
PHONE: (816) 298-6465
CERTIFICATE OF AUTHORITY NO. 2008013090

GARVER

REVISED: 2024-01-18

NOTES:

1. PASSING AREA REQUIRED EVERY 200' ON SIDEWALK THAT IS LESS THAN 5' WIDE.
2. * CURB MAY OR MAY NOT BE NEEDED DEPENDING ON FIELD CONDITIONS. IF CURB IS NEEDED, THE CURB HEIGHT WILL VARY DEPENDING ON FIELD CONDITIONS. (INTEGRAL CURB, S-CURB OR MOD. S-CURB).
3. S-CURB OVER 12" TALL IS PAID FOR AS 'MODIFIED S-CURB' AND REQUIRES REINFORCEMENT (NO DIRECT PAY). SEE DETAIL THIS SHEET.
4. ** INTEGRAL CURB IS PAID FOR IN THE 4" CONC. SIDEWALK PAY ITEM. PAID AS 1' ADDITIONAL SIDEWALK WIDTH. (EX. 6' SW PAID AS 7') (0.11 SY/LF OF CURB)

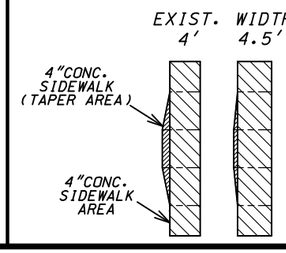


5'X5' PASSING AREA

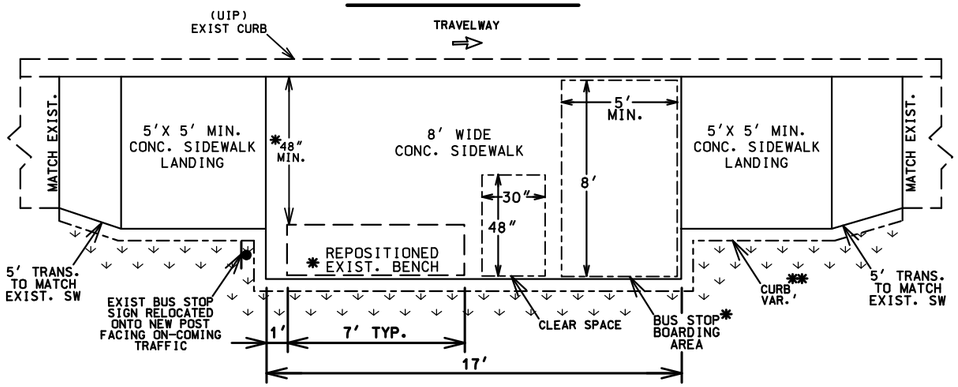
NOT TO SCALE

QUANTITIES FOR PASSING AREAS

EXISTING SW WIDTH		4'	4.5'
4" CONC. SIDEWALK (TAPER)	SY	1.3	0.7
TYPE 1 AGGREGATE	SY	1.3	0.7
4" CONC. SIDEWALK	SY	10.4	11.7
TYPE 1 AGGREGATE	SY	10.4	11.7
INTEGRAL CURB	** SY	2.0	2.0
TYPE 1 AGGREGATE	SY	1.0	1.0
S-CURB	LF	17.2	16.0
MODIFIFED S-CURB	LF	17.2	16.0
SODDING	SY	53.0	53.0
LINEAR GRADING	LF	25.0	25.0



BUS STOP WITH BENCH



NOTES:

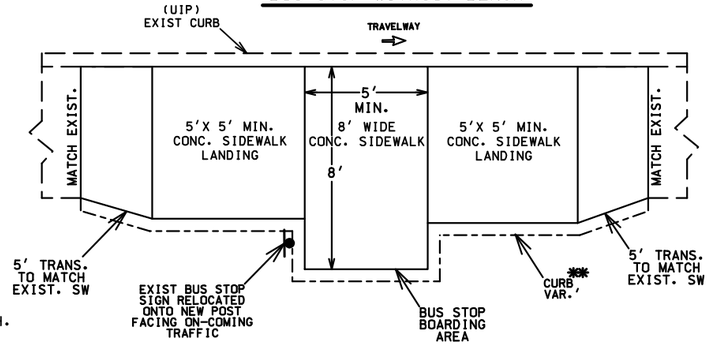
* 1. THE REPOSITIONED BENCH SHALL NOT BE PLACED ON THE 5'X8' BUS STOP BOARDING AREA. PLACE THE BACK OF THE BENCH AT THE BACK EDGE OF THE CONC. PAD TO PROVIDE MAX.CLEARANCE.

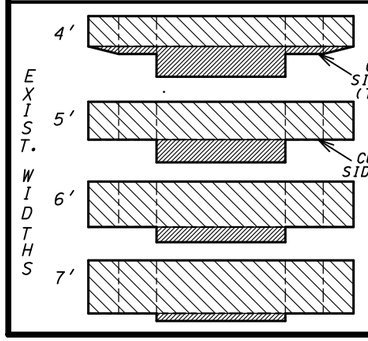
** 2. CURB USAGE DEPENDS ON FIELD CONDITIONS. IF CURB IS NEEDED DUE TO CUT, THE CURB HEIGHT WILL VARY DEPENDING ON FIELD CONDITIONS. (INTEGRAL CURB, S-CURB OR MOD. S-CURB).

3. S-CURB OVER 12" TALL IS PAID FOR AS 'MODIFIED S-CURB' AND REQUIRES REINFORCEMENT (NO DIRECT PAY). SEE DETAIL THIS SHEET.

*** 4. INTEGRAL CURB IS PAID FOR IN THE 4" CONC. SIDEWALK PAY ITEM.
INTEGRAL CURB PAID AS 1' ADDITIONAL SIDEWALK WIDTH.
(EX. 6'SW PAID AS 7') (0.11 SY/LF OF CURB)

BUS STOP WITHOUT BENCH

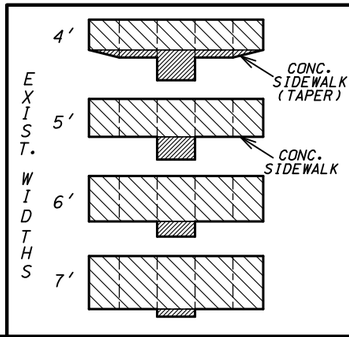




QUANTITIES FOR BUS STOPS WITH BENCH

EXISTING SW WIDTH		4'	5'	6'	7'
4" CONC. SIDEWALK (TAPER)	SY	9.3	5.8	3.9	1.9
TYPE 1 AGGREGATE	SY	9.3	5.8	3.9	1.9
4" CONC. SIDEWALK	SY	16.5	20.4	24.3	28.2
TYPE 1 AGGREGATE	SY	16.5	20.4	24.3	28.2
INTEGRAL CURB ***	SY	5.4	3.4	3.2	2.9
TYPE 1 AGGREGATE	SY	2.7	1.7	1.6	1.5
S-CURB	LF	43.5	27.0	25.0	23.0
MODIFIFED S-CURB	LF	43.5	27.0	25.0	23.0
SODDING	SY	10.6	10.4	9.8	9.4
LINEAR GRADING	LF	37.0	37.0	37.0	37.0

NOT TO SCALE



QUANTITIES FOR BUS STOPS – NO BENCH

EXISTING SW WIDTH		4'	5'	6'	7'
4" CONC. SIDEWALK (TAPER)	SY	3.9	1.8	1.3	0.7
TYPE 1 AGGREGATE	SY	3.9	1.8	1.3	0.7
4" CONC. SIDEWALK	SY	10.4	12.9	15.5	18.0
TYPE 1 AGGREGATE	SY	10.4	12.9	15.5	18.0
INTEGRAL CURB ***	SY	3.8	2.0	1.8	1.6
TYPE 1 AGGREGATE	SY	1.9	1.0	0.9	0.8
S-CURB	LF	31.0	15.0	13.0	11.0
MODIFIFED S-CURB	LF	31.0	15.0	13.0	11.0
SODDING	SY	7.6	7.4	6.8	6.4
LINEAR GRADING	LF	25.0	25.0	25.0	25.0

ADA LIBRARY TYPICAL

PASSING AREAS AND BUS STOPS

TYPICAL SHEET 9 OF 10

STATE OF MISSOURI
DONALD THOMAS SAKO
NUMBER PE-28475
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED: 2/13/2026

ROUTE	STATE
VAR.	MO
DISTRICT	SHEET NO.
SW	2

COUNTY: VARIOUS
JOB NO.: J7P3529
CONTRACT ID.:
PROJECT NO.:
BRIDGE NO.:

DESCRIPTION | DATE

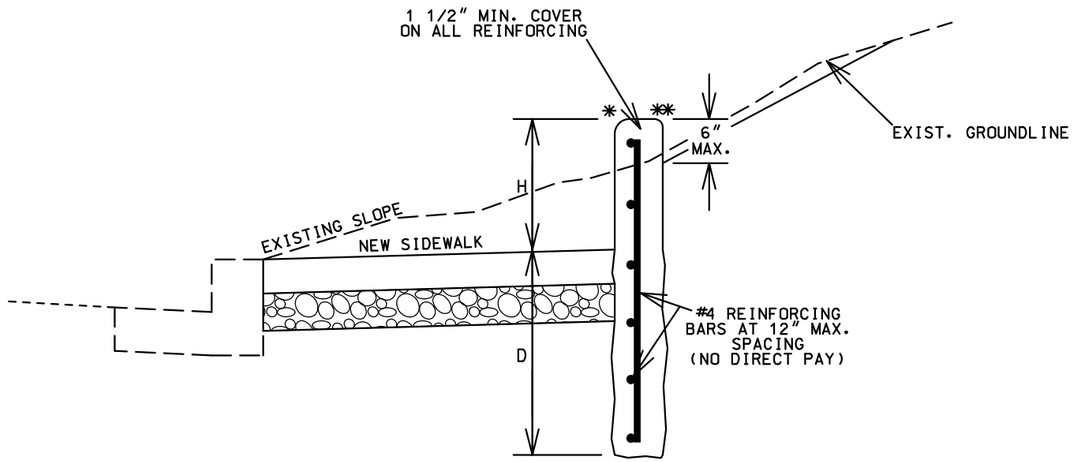
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

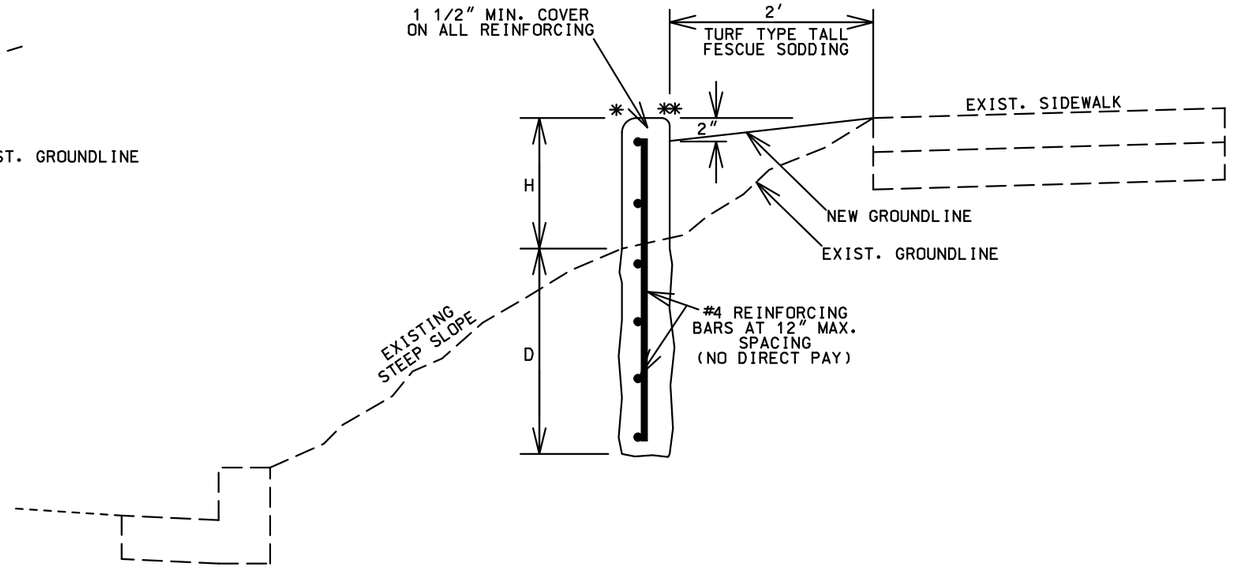
GARVER, LLC.
7509 NW TIFFANY SPRINGS PARKWAY, SUITE 200
KANSAS CITY, MO 64153
PHONE: (816) 298-6465
CERTIFICATE OF AUTHORITY NO. 2008013090

CREATED: 2023-11-16
REVISED: 2024-02-13

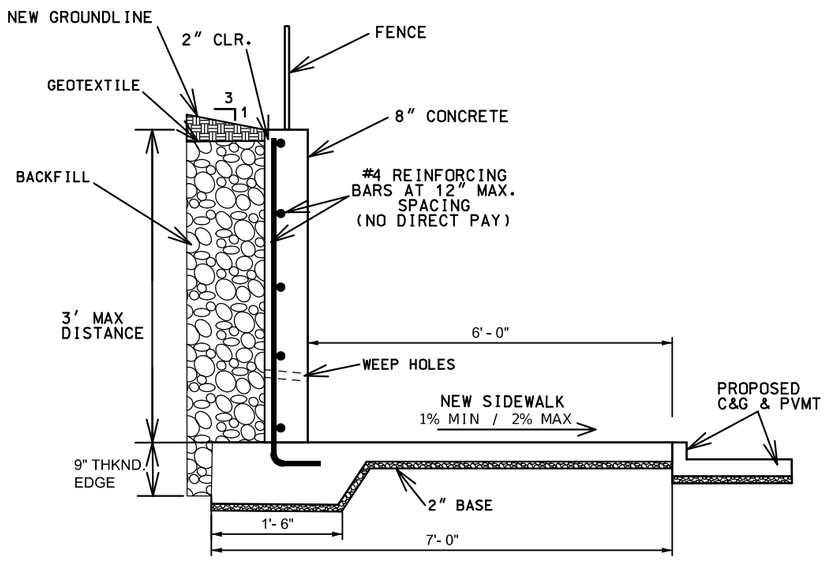
* ROUND TO 3/4" RADIUS
** ROUND TO 1/4" RADIUS
H = 2'-6" MAX. (30")
D = BURY DEPTH (FORMING NOT REQUIRED)
THIS SHALL BE 18 INCHES OR "H" WHICHEVER IS GREATER.
VERTICAL REINFORCING LENGTHS VARY AS NEEDED.
DEPTH MAY BE REDUCED IF KEYED 6" IN ROCK

MODIFIED S-CURB
> 12" TALL (2'-6" MAX.)





NOT TO SCALE



MODIFIED S-CURB
> 12" TALL (3'-0" MAX.)
POURED CONCRETE SIDEWALK WALL

NOT TO SCALE

ADA LIBRARY TYPICAL

MODIFIED S-CURB

TYPICAL SHEET
10 OF 10

STATE OF MISSOURI
DONALD THOMAS SAIKO
NUMBER PE-28475
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED
2/13/2026

ROUTE	STATE
VAR.	MO
DISTRICT	SHEET NO.
SW	2

COUNTY
VARIOUS

JOB NO.
J7P3529

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)

GARVER, LLC.
7509 NW TIFFANY SPRINGS
PARKWAY, SUITE 200
KANSAS CITY, MO 64153
PHONE: (816) 298-6465
CERTIFICATE OF AUTHORITY
NO. 2008013090

GARVER

c:\projectwise\garver-pw.bentley.com_garver-pw-01\d0163749\002_TS_10_J7P3529_IS_MOD_S_CURB.dgn 2:28:26 PM 2/13/2026

REMOVAL OF IMPROVEMENTS

SHEET	ROUTE	STA	STA	LOCATION	DESCRIPTION	UNIT	AMOUNT	REMARKS
MO 52 (FORT SCOTT ST) AT LP 49 (ORANGE ST)								
33	MO 52/LP 49				EXISTING SIGNAL HEADS	LS	1	4 FIVE SECTION SIGNAL HEADS AND ASSOCIATED SIGNS
US 54 AT PARK ST								
39	US 54/PARK ST				EXISTING SIGNALS	LS	1	4 POLES, CONTROLLER, POWER SUPPLY TYPE 1, CONDUITS, SIGNAL HEADS, SPAN WIRE, POWER SUPPLY
US 65 (ASH ST) AT MO 32 (DALLAS ST)								
30	US 65/MO 32				4 LUMINAIRES ON EXISTING POLES	EACH	4	EACH QUADRANT
45	US 65/MO 32				EXISTING SIGNAL HEADS	LS	4	4 FIVE SECTION SIGNAL HEADS AND ASSOCIATED SIGNS
MO 43 (MAIN ST) AT 41ST ST								
10	MO 43	38+17.10	38+34.64	CL	CONCRETE MEDIAN	SY	18	CONCRETE ISLAND
10	MO 43	38+20.08	38+25.12	CL	TRUNCATED DOMES	SF	20	TRUNCATED DOMES (2)
51	MO 43/41ST ST				EXISTING SIGNALS	LS	1	4 MAST ARM POLES, 1 PED POLE, CONTROLLER, POWER SUPPLY TYPE 1, CONDUITS, SIGNAL HEADS, 1 PULL BOX
51	MO 43	38+13.45		LT	LICENSE PLATE READER	EACH	1	REMOVE BY OTHERS - SEE JSP
94	MO 43	36+26.00		RT	SIGN	EACH	1	SCHOOL & AHEAD ON LIGHT POLE
94	MO 43	36+31.00		RT	SIGN	EACH	1	SCHOOL & AHEAD
94	MO 43	37+63.00		RT	SIGN	EACH	1	DO NOT ENTER
94	MO 43	38+15.00		RT	SIGN	EACH	1	ONE-WAY
94	MO 43	38+29.00		RT	SIGN	EACH	1	KEEP RIGHT/OBJECT MARKER
94	MO 43	38+33.00		RT	SIGN	EACH	1	ONE-WAY
95	MO 43	38+89.00		LT	SIGN	EACH	1	ONE-WAY
95	MO 43	38+90.00		LT	SIGN	EACH	1	ONE-WAY
95	MO 43	39+47.00		LT	SIGN	EACH	1	DO NOT ENTER
95	MO 43	40+77.00		LT	SIGN	EACH	1	SCHOOL & AHEAD ON LIGHT POLE
95	MO 43	40+79.00		LT	SIGN	EACH	1	SCHOOL & AHEAD
LP 49 AT WALDO HATLER MEMORIAL DR								
12	WALDO HATLER	732+66.16	732+77.23	RT	EXISTING ISLAND	SY	14	SW QUAD
12	WALDO HATLER	732+85.46	732+91.33	LT	EXISTING ISLAND	SY	7	NW QUAD
12	WALDO HATLER	733+41.42	733+47.85	RT	EXISTING ISLAND	SY	8	SE QUAD
12	WALDO HATLER	733+56.40	733+67.01	LT	EXISTING ISLAND	SY	14	NE QUAD
57	LP 49/WALDO				EXISTING SIGNALS	LS	1	4 WOOD POLES, CONTROLLER, POWER SUPPLY TYPE 1, CONDUITS, SIGNAL HEADS, SPAN WIRE
96	LP 49	LM 3.804		RT	SIGN	EACH	1	LP 49 S - SIGNAL AHEAD
US 60 AT OAK RIDGE DR								
13	US 60	711+21.80	711+33.24	LT	EXISTING ISLAND	SY	22	NW QUAD
13	US 60	711+69.03	71174.2L	RT	EXISTING ISLAND	SY	8	SE QUAD
31	US 60/OAK RIDGE	716+05		78' LT	LUMINAIRE POLE	EACH	1	
31	US 60/OAK RIDGE	717+17		56' RT	LUMINAIRE POLE	EACH	1	
63	US 60/OAK RIDGE				EXISTING SIGNALS	LS	1	4 WOOD POLES, CONTROLLER, POWER SUPPLY TYPE 1, CONDUITS, SIGNAL HEADS, SPAN WIRE
97	US 60	710+92		LT	SIGN	EACH	1	YIELD/DO NOT ENTER
97	US 60	712+03		RT	SIGN	EACH	1	YIELD/DO NOT ENTER
97	US 60	712+22		LT	SIGN	EACH	1	YIELD
97	US 60	LM 13.357		RT	SIGN	EACH	1	US 60 E - SIGNAL AHEAD
MO 59 (ROY HILL BLVD) AT RTE C (SPLITLOG AVE)								
69	MO 59/RTE C				EXISTING SIGNALS	LS	1	4 WOOD POLES, CONTROLLER, POWER SUPPLY TYPE 1, CONDUITS, SIGNAL HEADS, SPAN WIRE
98	MO 59	LM 26.923		RT	SIGN	EACH	1	MO 59 S - SIGNAL AHEAD
98	MO 59	LM 18.760		RT	SIGN	EACH	1	MO 59 N - SIGNAL AHEAD
98	RTE C	LM 6.592		RT	SIGN	EACH	1	RT C W - SIGNAL AHEAD
MO 59 AT BUS 71/MO 76								
75	MO 59/BUS 71/MO76				EXISTING SIGNALS	LS	1	4 WOOD POLES, CONTROLLER, POWER SUPPLY TYPE 1, CONDUITS, SIGNAL HEADS, SPAN WIRE
BUS 71 AT CEDAR ST								
14	BUS 71	73+05.81	73+51.71	RT	EXISTING ISLAND	SY	126	NW QUAD
14	BUS 71	74+08.01	74+47.98	LT	EXISTING ISLAND	SY	110	SE QUAD
81	BUS 71/CEDAR ST				EXISTING SIGNALS	LS	1	4 WOOD POLES, CONTROLLER, POWER SUPPLY TYPE 1, CONDUITS, SIGNAL HEADS, SPAN WIRE
99	BUS 71	LM 6.020		RT	SIGN	EACH	1	BUS 71 S - SIGNAL AHEAD
99	BUS 71	LM 5.945		LT	SIGN	EACH	1	BUS 71 N - SIGNAL AHEAD
BUS 71 AT RTE W (ELK RIVER RD/S JESSE JAMES RD)								
87	BUS 71/RTE W				EXISTING SIGNALS	LS	1	4 WOOD POLES, CONTROLLER, POWER SUPPLY TYPE 1, CONDUITS, SIGNAL HEADS, SPAN WIRE
100	BUS 71	295+07		LT	SIGN	EACH	1	YIELD/DO NOT ENTER
100	BUS 71	296+02		LT	SIGN	EACH	1	YIELD/DO NOT ENTER
					PROJECT TOTAL		1 LUMP SUM	

OPTIONAL PAVEMENT

SHEET	ROUTE	BEGIN STA	END STA	LOCATION	OPTIONAL PAVEMENT (SY)	6" TYPE 5 AGGR (SY)	REMARKS
MO 43 (MAIN ST) AT 41ST ST							
10	MO 43	35+43.51	38+35.00	RT/LT	399.8	400	SOUTHBOUND LEFT TURN LANE/UNDER CONC MEDIAN
11	MO 43	38+87.00	41+66.83	RT/LT	435.7	436	NORTHBOUND LEFT TURN LANE/UNDER CONC MEDIAN
MO 43 (MAIN ST) AT 41ST ST SUBTOTALS					835.5	836	
PROJECT TOTALS					835.5	836	

MOBILIZATION
1 LUMP SUM

SUMMARY OF QUANTITIES
SHEET 1 OF 10

STATE OF MISSOURI
DONALD THOMAS SAKO
NUMBER PE-28475
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED: 4/6/2026
ROUTE: VAR. | STATE: MO
DISTRICT: SW | SHEET NO.: 3
COUNTY: VARIOUS
JOB NO.: J7P3529
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)

GARVER, LLC.
7509 NW TIFFANY SPRINGS
PARKWAY, SUITE 200
KANSAS CITY, MO 64153
PHONE: (816) 298-6465
CERTIFICATE OF AUTHORITY
NO. 2008013090

SEEDING AND MULCHING - COOL SEASON GRASSES

SHEET	ROUTE	BEGIN STA	END STA	LOCATION	SEEDING & MULCHING GRASSES QUANTITY	REMARKS
MO 43 (MAIN ST) AT 41ST ST						
10	MO 43	35+43.51	38+14.00	LT/RT	0.13 ACRES	SB LT TURN LANE
11	MO 43	39+22.00	41+66.83	LT/RT	0.14 ACRES	NB LT TURN LANE
MO 43 (MAIN ST) AT 41ST ST SUBTOTAL					0.27 ACRES	
LP 49 AT WALDO HATLER MEMORIAL DR						
12	WALDO	732+18.28	732+71.30	LT	0.02 ACRES	NW QUAD, GRADING FOR SIGNAL EQUIPMENT
12	WALDO	732+54.00	732+42.29	RT	0.02 ACRES	SW QUAD, GRADING FOR SIGNAL EQUIPMENT
12	WALDO	733+85.16	734+00.29	LT	0.02 ACRES	NE QUAD, GRADING FOR SIGNAL EQUIPMENT
12	WALDO	733+89.28	734+42.41	RT	0.02 ACRES	SE QUAD, GRADING FOR SIGNAL EQUIPMENT
LP 49 AT WALDO HATLER MEMORIAL DR SUBTOTAL					0.08 ACRES	
PROJECT TOTAL					1 LUMP SUM	

PAVEMENT

SHEET	ROUTE	BEGIN STA	END STA	LOCATION	2" SP125C (PG64-22) (TONS)	TACK 0.10 GAL/SY (GAL)	REMARKS
LP 49 AT WALDO HATLER MEMORIAL DR							
12	WALDO HATLER	732+66.16	732+77.23	RT	1.5	1.4	SW QUAD EXISTING ISLAND
12	WALDO HATLER	732+85.46	732+91.33	LT	0.8	0.7	NW QUAD EXISTING ISLAND
12	WALDO HATLER	733+41.42	733+47.85	RT	0.8	0.8	SE QUAD EXISTING ISLAND
12	WALDO HATLER	733+56.40	733+67.01	LT	1.5	1.4	NE QUAD EXISTING ISLAND
LP 49 AT WALDO HATLER MEMORIAL DR SUBTOTALS					4.6	4.3	
US 60 AT OAK RIDGE DR							
13	US 60	711+21.80	711+33.24	LT	2.4	2.2	NW QUAD EXISTING ISLAND
13	US 60	711+69.03	711+74.20	RT	0.8	0.8	SE QUAD EXISTING ISLAND
US 60 AT OAK RIDGE DR SUBTOTALS					3.2	3.0	
BUS 71 AT CEDAR ST							
14	BUS 71	73+05.81	73+51.71	RT	13.5	12.6	NW QUAD EXISTING ISLAND
14	BUS 71	74+08.01	74+47.98	LT	11.8	11.0	SE QUAD EXISTING ISLAND
BUS 71 AT CEDAR ST SUBTOTALS					25.3	23.6	
PROJECT TOTALS					33.1	30.9	
USE					33.1	31	

EARTHWORK

SHEET	ROUTE	BEGIN STATION	END STATION	LOCATION	UNCLASSIFIED EXCAVATION (CY)	COMPACTING EMBANKMENT (CY)	EMBANKMENT IN PLACE (CY)	COMPACTING IN CUT (STA)	REMARKS
MO 43 (MAIN ST) AT 41ST ST									
10	MO 43	35+43.51	38+35.00	RT/LT	144.95	48.34		2.91	LEFT TURN LANE
11	MO 43	38+87.00	41+66.83	RT/LT	112.33	86.75		2.80	LEFT TURN LANE
MO 43 (MAIN ST) AT 41ST ST SUBTOTALS					257.28	135.09		5.71	
LP 49 AT WALDO HATLER MEMORIAL DR									
12	WALDO	732+18.28	734+42.41	LT/RT			58.50		GRADING FOR SIGNAL EQUIPMENT
LP 49 AT WALDO HATLER MEMORIAL DR SUBTOTALS							58.50		
PROJECT TOTALS					257.28	135.09	58.50	5.71	
USE					258	136	59	5.7	

SUMMARY OF QUANTITIES
SHEET 2 OF 10

STATE OF MISSOURI
DONALD THOMAS SAIKO
NUMBER PE-28475
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED 4/6/2026
ROUTE VAR. | STATE MO
DISTRICT SW | SHEET NO. 3
COUNTY VARIOUS
JOB NO. J7P3529
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)

GARVER, LLC.
7509 NW TIFFANY SPRINGS
PARKWAY, SUITE 200
KANSAS CITY, MO 64153
PHONE: (816) 298-6465
CERTIFICATE OF AUTHORITY
NO. 2008013090

DRAINAGE

SHEET	ROUTE	STA	STA	LOCATION	15" GROUP A PIPE (LF)	PIPE COLLAR TYPE A (EA)	15" GROUP A FES (EA)	CLASS 3 EXCAVATION (CY)	REMARKS
MO 43 (MAIN ST) AT 41ST ST									
10	MO 43	37+71.49	38+10.84	RT/LT	38	1	1	9.3	NORTH OF INTERSECTION
11	MO 43	38+94.86	39+31.11	RT	37	1	1	6.7	SOUTH OF INTERSECTION
MO 43 (MAIN ST) AT 41ST ST SUBTOTALS					75	2	2	16.0	
PROJECT TOTALS					75	2	2	16.0	
USE					75	2	2	16	

CONCRETE MEDIAN STRIP

SHEET	ROUTE	BEGIN STA	END STA	LOCATION	3 IN. CONCRETE MEDIAN STRIP (SY)	8 IN. CONCRETE MEDIAN STRIP (SY)	REMARKS
MO 43 (MAIN ST) AT 41ST ST							
10	MO 43	38+14.00	38+33.59	RT/LT		16.2	MEDIAN NOSE
11	MO 43	38+93.66	39+22.00	RT/LT		55.5	MEDIAN NOSE
MO 43 (MAIN ST) AT 41st ST SUBTOTALS						71.7	
LP 49 AT WALDO HATLER MEMORIAL DR							
12	WALDO HATLER	732+65.82	732+76.95	RT	14.7		SW QUAD
12	WALDO HATLER	732+83.95	732+91.68	LT	10.1		NW QUAD
12	WALDO HATLER	733+41.32	733+47.81	RT	8.4		SE QUAD
12	WALDO HATLER	733+53.83	733+67.05	LT	17.9		NE QUAD
LP 49 AT WALDO HATLER MEMORIAL DR SUBTOTALS					51.1		
US 60 AT OAK RIDGE DR							
13	US 60	711+20.04	711+35.35	LT		55.2	NW QUAD
13	US 60	711+68.96	711+83.15	RT		35.8	SE QUAD
13	US 60	711+84.52	712+32.79	LT		59.1	NE QUAD
US 60 AT OAK RIDGE DR SUBTOTALS						150.1	
BUS 71 AT CEDAR ST							
14	BUS 71	72+99.23	73+53.28	RT		145.1	NW QUAD
14	BUS 71	74+07.76	74+49.63	LT		96.0	SE QUAD
BUS 71 AT CEDAR ST SUBTOTALS						241.1	
PROJECT TOTALS					51.1	462.9	

TRUNCATED DOMES, SIDEWALK, TYPE 1 AGGREGATE, ADA LINEAR GRADING

SHEET	STA	STA	ROUTE	LOCATION	TRUNCATED DOMES (SF)	SIDEWALK WIDTH (LF)	8" SIDEWALK (SY)	6" TYPE 5 AGGR (SY)	ADA LINEAR GRADING (LF)	REMARKS
MO 43 (MAIN ST) AT 41ST ST										
10	38+14.00	38+33.59	MO43	CL	24.0	6	8.2	8.2	19.6	PED REFUGE
MO 43 (MAIN ST) AT 41ST ST SUBTOTALS					24.0	--	8.2	8.2	19.6	
PROJECT TOTALS					24	--	8.2	8	19.6	
USE					24	--	8.2	8	20	

PAVEMENT EDGE TREATMENT

SHEET	ROUTE	BEGIN STA	END STA	LOCATION	PAVEMENT EDGE TREATMENT (LF)	REMARKS
MO 43 (MAIN ST) AT 41ST ST						
10	MO 43	35+43.51	38+35.00	RT	326	
11	MO 43	38+87.00	41+66.83	LT	351	
MO 43 (MAIN ST) AT 41ST SUBTOTAL					677	
PROJECT TOTAL					677	

CONTRACTOR FURNISHED SURVEYING AND STAKING

1 LUMP SUM

SUMMARY OF QUANTITIES
SHEET 3 OF 10

STATE OF MISSOURI
DONALD THOMAS SAIKO
NUMBER PE-28475
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED 4/6/2026
ROUTE VAR. | STATE MO
DISTRICT SW | SHEET NO. 3
COUNTY VARIOUS
JOB NO. J7P3529
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)

GARVER, LLC.
7509 NW TIFFANY SPRINGS PARKWAY, SUITE 200
KANSAS CITY, MO 64153
PHONE: (816) 298-6465
CERTIFICATE OF AUTHORITY NO. 2008013090

PAVEMENT MARKING (1)

SHEET	ROUTE	STA	STA	LOCATION	CLASS 2 PAVEMENT MARKING PAINT (25-MIL, TYPE L BEADS) 6 IN. WHITE (LF)	6 IN. INT. WHITE (LF)	6 IN. YELLOW (LF)	4 IN. YELLOW (LF)	CLASS 1 PAVEMENT MARKING PAINT (18-MIL, TYPE P BEADS) 4 IN. WHITE (LF)	4 IN. YELLOW (LF)	PREFORMED THERMOPLASTIC PAVEMENT MARKING PAINT 24 IN. WHITE (LF)	24 IN. WHITE LONGI-TUDINAL BARS CROSSWALK (LF)	24 IN. YELLOW (LF)	LEFT/ RIGHT TURN ARROW (EA)	STR/ LEFT TURN ARROW (EA)	YIELD TRI-ANGLES (EA)	PAVEMENT MARKING REMOVAL (LF)	PAVEMENT MARKING REMOVAL (SYMBOLS) (EA)	REMARKS
US 52 AT PARK ST																			
103	US 54	141+92		LT/RT														1	LEFT TURN ARROW REMOVAL
103	US 54	141+93	142+93	LT				200											DOUBLE YELLOW
103	US 54	141+93	143+01	RT	108														LANE LINE
103	US 54	142+08		LT/RT										1					LEFT TURN ARROW
103	US 54	142+93		LT/RT							12						12		STOP BAR & REMOVAL
103	US 54	143+01		RT							12						12		STOP BAR & REMOVAL
103	US 54	143+15		LT/RT								42							CROSSWALK, 7 BARS
103	US 54	143+26	143+65	RT								42							CROSSWALK, 7 BARS
103	US 54	143+27	143+41	LT							15						15		STOP BAR & REMOVAL
103	US 54	143+41		LT						220									DOUBLE YELLOW
103	US 54	143+46		RT						200									DOUBLE YELLOW
103	US 54	143+46	143+64	RT							18						18		STOP BAR & REMOVAL
103	US 54	143+92		LT							12						12		STOP BAR & REMOVAL
103	US 54	143+92	145+17	LT	125														LANE LINE
103	US 54	143+99		LT/RT							12						12		STOP BAR & REMOVAL
103	US 54	143+99	145+17	RT				236											DOUBLE YELLOW
103	US 54	144+84		LT/RT										1					LEFT TURN ARROW
103	US 54	145+15		LT/RT														1	LEFT TURN ARROW REMOVAL
US 52 AT PARK ST SUBTOTALS					233	0	0	436	0	420	81	84	0	2	0	0	81	2	
MO 43 (MAIN ST) AT 41ST ST																			
104	MO 43	35+44	37+90	LT	246	62	246												LANE LINES
104	MO 43	35+44	38+14	RT	440	68	270												LANE LINE
104	MO 43	37+31		RT										1					LEFT TURN ARROW
104	MO 43	38+14		RT							35								STOP BAR
104	MO 43	38+14	38+34	LT/RT			140												12" PAINTED BARRIER CURB
104	MO 43	37+99		RT													23		STOP BAR REMOVAL
104	MO 43	38+16	38+29	LT/RT								90						17	CROSSWALK & REMOVAL
104	MO 43	38+29	38+44	LT							14						14		STOP BAR & REMOVAL
104	MO 43	38+44	38+54	LT							10						10		STOP BAR & REMOVAL
104	MO 43	38+44		LT					56										LANE LINE
104	MO 43	38+49		LT										1				1	LEFT TURN ARROW & REMOVAL
104	MO 43	38+54		LT						102									DOUBLE YELLOW
105	MO 43	38+61	38+79	RT							18						18		STOP BAR & REMOVAL
105	MO 43	38+95	41+67	LT			272												EDGELINE
105	MO 43	38+95	41+67	LT	444	68													LANE LINES
105	MO 43	38+89	39+29	LT/RT			180												12" PAINTED BARRIER CURB
105	MO 43	38+95		LT							35						24		STOP BAR & REMOVAL
105	MO 43	39+22	41+69	RT			247												EDGELINE
105	MO 43	39+22	41+69	RT	247	62													LANE LINE
105	MO 43	39+80		LT										1					LEFT TURN ARROW
MO 43 (MAIN ST) AT 41ST ST SUBTOTALS					1377	260	1355	0	56	102	112	90	0	3	0	0	89	18	

SUMMARY OF QUANTITIES
SHEET 4 OF 10

STATE OF MISSOURI
DONALD THOMAS SAKO
NUMBER PE-28475
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED 4/6/2026
ROUTE VAR. | STATE MO
DISTRICT SW | SHEET NO. 3
COUNTY VARIOUS
JOB NO. J7P3529
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)

GARVER, LLC.
7509 NW TIFFANY SPRINGS
PARKWAY, SUITE 200
KANSAS CITY, MO 64153
PHONE: (816) 298-6465
CERTIFICATE OF AUTHORITY
NO. 2008013090

GARVER

PAVEMENT MARKING (2)

SHEET	ROUTE	STA	STA	LOCATION	CLASS 2 PAVEMENT MARKING PAINT (25-MIL, TYPE L BEADS) 6 IN. WHITE (LF)	6 IN. INT. WHITE (LF)	6 IN. YELLOW (LF)	4 IN. YELLOW (LF)	CLASS 1 PAVEMENT MARKING PAINT (18-MIL, TYPE P BEADS) 4 IN. WHITE (LF)	4 IN. YELLOW (LF)	PREFORMED THERMOPLASTIC PAVEMENT MARKING PAINT 24 IN. WHITE (LF)	24 IN. WHITE LONGI-TUDINAL BARS CROSSWALK (LF)	24 IN. YELLOW (LF)	LEFT/ RIGHT TURN ARROW (EA)	STR/ LEFT TURN ARROW (EA)	YIELD TRI-ANGLES (EA)	PAVEMENT MARKING REMOVAL (LF)	PAVEMENT MARKING REMOVAL (SYMBOLS) (EA)	REMARKS
LP 49 AT WALDO HATLER MEMORIAL DR																			
106	BUSINESS 71	489+45	490+31	LT						172									DOUBLE YELLOW
106	BUSINESS 71	489+45	490+44	RT					99										LANE LINE
106	BUSINESS 71	489+45	489+70	LT					25										EDGELINE
106	BUSINESS 71	489+54		LT/RT										1				1	LEFT TURN ARROW & REMOVAL
106	BUSINESS 71	490+04	490+89	RT					165										LANE LINE AND PAINTED ISLAND
106	BUSINESS 71	490+28	490+59	LT					99										PAINTED ISLAND
106	BUSINESS 71	490+31		LT/RT							12						12		STOP BAR & REMOVAL
106	BUSINESS 71	490+44		RT							12						12		STOP BAR & REMOVAL
106	BUSINESS 71	490+51		LT							12						12		STOP BAR & REMOVAL
106	BUSINESS 71	490+68	491+39	LT					146										PAINTED ISLAND AND LANE LINE
106	BUSINESS 71	490+96		RT							12						12		STOP BAR & REMOVAL
106	BUSINESS 71	490+99	491+31	RT					102										PAINTED ISLAND
106	BUSINESS 71	491+05		LT							12						12		STOP BAR & REMOVAL
106	BUSINESS 71	491+05	492+10	LT					105										LANE LINE
106	BUSINESS 71	491+30		LT/RT							12						12		STOP BAR & REMOVAL
106	BUSINESS 71	491+30	492+10	RT						160									DOUBLE YELLOW
106	BUSINESS 71	491+85	492+10	RT					25										EDGELINE
106	WALDO HATLER	731+79	732+76	LT/RT						194									DOUBLE YELLOW
106	WALDO HATLER	733+57	734+59	LT/RT						204									DOUBLE YELLOW
LP 49 AT WALDO HATLER MEMORIAL DR SUBTOTALS					0	0	0	0	766	730	72	0	0	1	0	0	72	1	
US 60 AT OAK RIDGE DR																			
107	US 60	708+82	711+22	LT	284														EDGELINE
107	US 60	708+96		LT							9								HASH MARK
107	US 60	709+60	710+85	LT				250											DOUBLE YELLOW
107	US 60	709+60	710+94	RT	134														LANE LINE
107	US 60	709+66		LT/RT										1				1	LEFT TURN ARROW & REMOVAL
107	US 60	709+66		LT							19								HASH MARK
107	US 60	710+37		LT							29								HASH MARK
107	US 60	710+59		LT/RT										1				1	LEFT TURN ARROW & REMOVAL
107	US 60	710+60	710+94	RT	34														LANE LINE
107	US 60	710+85		RT/LT							16						16		STOP BAR & REMOVAL
107	US 60	710+94		RT							17						17		STOP BAR & REMOVAL
107	US 60	710+95		LT							21								HASH MARK
107	US 60	711+12	711+40	LT	172														PAINTED ISLAND
107	US 60	711+16		LT							9								HASH MARK
107	US 60	711+18	711+37	LT	214														12" PAINTED BARRIER CURB
107	US 60	711+65	711+92	RT	128														PAINTED ISLAND
107	US 60	711+67	711+85	RT	160														12" PAINTED BARRIER CURB
107	US 60	711+76	713+79	LT	432						27								PAINTED ISLAND AND CHEVRONS
107	US 60	711+82	712+35	LT	246														12" PAINTED BARRIER CURB
107	US 60	711+88		RT												5			YIELD TRIANGLES
107	US 60	711+79	714+50	RT	314														EDGELINE
107	US 60	711+87	711+91	LT												5			YIELD TRIANGLES
107	US 60	711+90		RT							10								HASH MARK
107	US 60	711+91	713+79	LT	191														EDGELINE
107	US 60	712+10		LT							12						12		STOP BAR & REMOVAL
107	US 60	712+10	713+79	LT	169														LANE LINE
107	US 60	712+37		LT/RT							17						17		STOP BAR & REMOVAL
107	US 60	712+37	713+79	RT				284											DOUBLE YELLOW
107	US 60	712+32		RT							23								HASH MARK
107	US 60	712+65		LT/RT										1				1	LEFT TURN LANE & REMOVAL
107	US 60	712+78		RT							11						8		HASH MARK
107	OAK RIDGE DR	1+65		RT											1			1	LEFT/STRT ARROW & REMOVAL
107	OAK RIDGE DR	1+71	2+22	LT				102											DOUBLE YELLOW
107	OAK RIDGE DR	2+22		LT/RT							12						12		STOP BAR & REMOVAL
107	OAK RIDGE DR	3+37	4+30	LT/RT				186											DOUBLE YELLOW
107	OAK RIDGE DR	3+37		LT/RT							12						12		STOP BAR & REMOVAL
107	OAK RIDGE DR	3+54	3+82	LT	28														LANE LINE
107	OAK RIDGE DR	3+79		LT/RT											1			1	LT/STRT TURN ARROW & REMOVAL
US 60 AT OAK RIDGE DR SUBTOTALS					2506	0	0	822	0	0	244	0	0	3	2	10	94	5	

SUMMARY OF QUANTITIES

SHEET 5 OF 10

STATE OF MISSOURI
DONALD THOMAS SAIKO
NUMBER PE-28475
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED 4/6/2026

ROUTE VAR. | STATE MO

DISTRICT SW | SHEET NO. 3

COUNTY VARIOUS

JOB NO. J7P3529

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)

GARVER, LLC.
7509 NW TIFFANY SPRINGS PARKWAY, SUITE 200
KANSAS CITY, MO 64153
PHONE: (816) 298-6465
CERTIFICATE OF AUTHORITY NO. 2008013090

GARVER

PAVEMENT MARKING (3)

SHEET	ROUTE	STA	STA	LOCATION	CLASS 2 PAVEMENT MARKING PAINT (25-MIL, TYPE L BEADS) 6 IN. WHITE (LF)	6 IN. INT. WHITE (LF)	6 IN. YELLOW (LF)	4 IN. YELLOW (LF)	CLASS 1 PAVEMENT MARKING PAINT (18-MIL, TYPE P BEADS) 4 IN. WHITE (LF)	4 IN. YELLOW (LF)	PREFORMED THERMOPLASTIC PAVEMENT MARKING PAINT 24 IN. WHITE (LF)	24 IN. WHITE LONGI-TUDINAL BARS CROSSWALK (LF)	24 IN. YELLOW (LF)	LEFT/ RIGHT TURN ARROW (EA)	STR/ LEFT TURN ARROW (EA)	YIELD TRI-ANGLES (EA)	PAVEMENT MARKING REMOVAL (LF)	PAVEMENT MARKING REMOVAL (SYMBOLS) (EA)	REMARKS
MO 59 (ROY HILL BLVD) AT RTE C (SPLITLOG AVE)																			
108	MO HWY 59	85+94	87+08	LT/RT					342										EDGELINES & LANE LINES
108	MO HWY 59	85+94	87+08	LT					29										LANE LINE
108	MO HWY 59	85+94	87+08	LT/RT						228									DOUBLE YELLOW
108	MO HWY 59	86+31		RT										1				1	LEFT TURN ARROW & REMOVAL
108	MO HWY 59	87+08		RT							21						21		STOP BAR & REMOVAL
108	MO HWY 59	88+32	89+58	LT					126										EDGELINE
108	MO HWY 59	88+52	89+58	RT					106										EDGELINE
108	MO HWY 59	88+62		LT							24						24		STOP BAR & REMOVAL
108	MO HWY 59	88+62	89+58	LT					120										LANE LINES
108	MO HWY 59	88+73		LT/RT							10						10		STOP BAR & REMOVAL
108	MO HWY 59	88+73	89+58	RT						170									DOUBLE YELLOW
108	MO HWY 59	89+50		RT										1				1	LEFT TURN ARROW & REMOVAL
108	SPLITLOG RD	3+42		RT							11						11		STOP BAR & REMOVAL
108	ROUTE C	0+61		LT							18						18		STOP BAR & REMOVAL
108	ROUTE C	0+61	1+46	LT/RT						170									DOUBLE YELLOW
108	ROUTE C	0+73		LT							12						12		STOP BAR & REMOVAL
MO 59 (R. HILL BLVD) @ RTE C (SPLITLOG AVE) SUBTOTALS					0	0	0	0	723	568	96	0	0	2	0	0	96	2	
MO 59 AT BUS 71/MO 76																			
109	MO 59/BUS 71, MO 76/BUS 71	385+28	387+00	LT					172										EDGELINE
109	MO 59/BUS 71	385+28	386+18	LT					180										DOUBLE YELLOW
109	MO 59/BUS 71	385+28	386+28	LT/RT					100	200									DOUBLE YELLOW & LANE LINE
109	MO 59/BUS 71	385+50		RT										1				1	LEFT TURN ARROW & REMOVAL
109	MO 59/BUS 71	385+63		LT/RT									14				14		PAINTED MEDIAN & REMOVAL
109	MO 59/BUS 71	386+16		LT/RT									14				14		PAINTED MEDIAN & REMOVAL
109	MO 59/BUS 71	386+28		RT							26						26		STOP BAR & REMOVAL
109	MO 59/BUS 71, MO 76/BUS 71	385+28	1+41	RT					347										EDGELINE
109	MO 76/BUS 71	0+00	3+43	LT					343										EDGELINE
109	MO 76/BUS 71	1+30		LT							26						26		STOP BAR & REMOVAL
109	MO 76/BUS 71	1+30	3+43	LT/RT					426	426									LANE LINE, EDGELINE, DOUBLE YELLOW
109	MO 76/BUS 71	1+64		LT										1				1	LEFT TURN ARROW & REMOVAL
109	MO 76/BUS 71	2+85		LT										1				1	LEFT TURN ARROW & REMOVAL
109	MO 59	0+85	2+00	LT/RT						230									DOUBLE YELLOW
109	MO 59	0+85		LT							39						39		STOP BAR & REMOVAL
109	MO 59	0+85	1+38	LT					53										LANE LINE
109	MO 59	1+31		LT										1				1	LEFT TURN ARROW & REMOVAL
109	MO 59	0+97	2+00	LT					103										EDGELINE
MO 59 AT BUS 71/MO 76 SUBTOTALS					0	0	0	0	1724	856	91	0	28	4	0	0	119	4	

SUMMARY OF QUANTITIES
SHEET 6 OF 10

STATE OF MISSOURI
DONALD THOMAS SAIKO
NUMBER PE-28475
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED 4/6/2026
ROUTE VAR. | STATE MO
DISTRICT SW | SHEET NO. 3
COUNTY VARIOUS
JOB NO. J7P3529
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)

GARVER, LLC.
7509 NW TIFFANY SPRINGS
PARKWAY, SUITE 200
KANSAS CITY, MO 64153
PHONE: (816) 298-6465
CERTIFICATE OF AUTHORITY
NO. 2008013090

PAVEMENT MARKING (4)

SHEET	ROUTE	STA	STA	LOCATION	CLASS 2 PAVEMENT MARKING PAINT (25-MIL, TYPE L BEADS) 6 IN. WHITE (LF)	6 IN. INT. WHITE (LF)	6 IN. YELLOW (LF)	4 IN. YELLOW (LF)	CLASS 1 PAVEMENT MARKING PAINT (18-MIL, TYPE P BEADS) 4 IN. WHITE (LF)	4 IN. YELLOW (LF)	PREFORMED THERMOPLASTIC PAVEMENT MARKING PAINT 24 IN. WHITE (LF)	24 IN. WHITE LONGI-TUDINAL BARS CROSSWALK (LF)	24 IN. YELLOW (LF)	LEFT/ RIGHT TURN ARROW (EA)	STR/ LEFT TURN ARROW (EA)	YIELD TRI-ANGLES (EA)	PAVEMENT MARKING REMOVAL (LF)	PAVEMENT MARKING REMOVAL (SYMBOLS) (EA)	REMARKS
BUS 71 AT CEDAR ST																			
110	CEDAR ST	68+00	69+42	LT/RT						284									DOUBLE YELLOW
110	CEDAR ST	68+13	69+09	LT					182										EDGELINE
110	CEDAR ST	68+65		LT							13								HASH MARK
110	CEDAR ST	68+90		LT												7			YIELD TRIANGLES
110	CEDAR ST	69+02		RT							11						11		STOP BAR & REMOVAL
110	CEDAR ST	69+04		LT							16								HASH MARK
110	CEDAR ST	69+05	69+57	LT					203										PAINTED ISLAND
110	CEDAR ST	69+18		LT							18								HASH MARK
110	CEDAR ST	70+01	70+53	RT					205										PAINTED ISLAND
110	CEDAR ST	70+39		RT							13								HASH MARK
110	CEDAR ST	70+45	71+35	RT					197										EDGELINE
110	CEDAR ST	70+46		LT							11						11		STOP BAR AND REMOVAL
110	CEDAR ST	70+46	71+35	LT/RT						178									DOUBLE YELLOW
110	CEDAR ST	70+58		RT							13								HASH MARK
110	CEDAR ST	70+66		RT												7			YIELD TRIANGLES
110	CEDAR ST	70+96		RT							13								HASH MARK
110	BUSINESS 71	72+23	73+05	LT					82								82		EDGELINE & REMOVAL
110	BUSINESS 71	72+23	73+22	LT						198							198		DOUBLE YELLOW & REMOVAL
110	BUSINESS 71	72+23	73+32	RT					109								109		LANE LINE & REMOVAL
110	BUSINESS 71	72+23	72+88	RT					65								65		LANE LINE & REMOVAL
110	BUSINESS 71	72+38		LT/RT										1				1	LEFT TURN ARROW & REMOVAL
110	BUSINESS 71	73+22		LT/RT							12						12		STOP BAR & REMOVAL
110	BUSINESS 71	73+32		RT							12						12		STOP BAR & REMOVAL
110	BUSINESS 71	74+27		LT							12						12		STOP BAR & REMOVAL
110	BUSINESS 71	74+27	75+40	LT					113								113		LANE LINE & REMOVAL
110	BUSINESS 71	74+38		LT/RT							11						11		STOP BAR & REMOVAL
110	BUSINESS 71	74+38	75+40	LT/RT					102	204							306		EDGELINE & DOUBLE YELLOW & REMOVAL
110	BUSINESS 71	74+92		LT/RT														1	LEFT TURN ARROW REMOVAL
110	BUSINESS 71	75+23		LT/RT										1					LEFT TURN ARROW
BUS 71 AT CEDAR ST SUBTOTALS					0	0	0	0	1258	864	155	0	0	2	0	14	942	2	
BUS 71 AT RTE W (ELK RIVER RD/S JESSE JAMES RD)																			
111	BUSINESS 71	294+18	294+84	LT					66								66		EDGELINE & REMOVAL
111	BUSINESS 71	294+18	295+07	LT					178								178		DOUBLE YELLOW & REMOVAL
111	BUSINESS 71	294+18	295+11	RT					186								186		LANE LINE AND EDGELINE & REMOVAL
111	BUSINESS 71	294+30		LT/RT										1				1	LEFT TURN ARROW & REMOVAL
111	BUSINESS 71	295+07		LT/RT							12						12		STOP BAR & REMOVAL & REMOVAL
111	BUSINESS 71	295+11		RT							12						12		STOP BAR & REMOVAL & REMOVAL
111	BUSINESS 71	295+16	295+43	LT					27								27		EDGELINE & REMOVAL
111	BUSINESS 71	295+23		LT												7			YIELD TRIANGLES
111	BUSINESS 71	295+24	295+40	LT							39						39		24" THERMOPLASTIC ISLAND & REMOVAL
111	BUSINESS 71	295+52	295+63	RT							11						11		STOP BAR & REMOVAL
111	BUSINESS 71	295+67	296+21	LT					54								54		EDGELINE & REMOVAL
111	BUSINESS 71	295+68	295+88	LT							56						56		24" THERMOPLASTIC ISLAND & REMOVAL
111	BUSINESS 71	295+70		LT												7			YIELD TRIANGLES
111	BUSINESS 71	295+88		LT							14						14		STOP BAR & REMOVAL
111	BUSINESS 71	295+99		LT/RT							12						12		STOP BAR & REMOVAL
111	BUSINESS 71	295+99	297+04	RT					105	210							315		PAINTED MEDIAN & EDGELINE & REMOVAL
111	BUSINESS 71	296+22		LT/RT										1				1	LEFT TURN ARROW & REMOVAL
111	BUSINESS 71	296+31	297+04	LT						146							146		PAINTED MEDIAN DOUBLE YELLOW & REMOVAL
111	BUSINESS 71	296+56		LT/RT									11				11		24" YELLOW THERMOPLASTIC MEDIAN & REMOVAL
111	BUSINESS 71	296+81		LT/RT									9				9		24" YELLOW THERMOPLASTIC MEDIAN & REMOVAL
111	BUSINESS 71	297+04		LT/RT									7				7		24" YELLOW THERMOPLASTIC MEDIAN & REMOVAL
111	ROUTE W	0+34		RT/LT							13						13		STOP BAR & REMOVAL
111	ROUTE W	0+34	1+08	RT						148									DOUBLE YELLOW
BUS 71 AT RTE W (ELK RIVER RD/ S JESSE JAMES RD) SUBTOTALS					0	0	0	0	616	356	156	0	27	2	0	14	1155	2	
PROJECT TOTALS					4116	260	1355	1258	5143	3896	1007	174	55	19	2	38	2648	36	
USE					4376		1355	1258	5143	3896	1181		55	19	2	38	2648	36	

SUMMARY OF QUANTITIES
SHEET 7 OF 10

STATE OF MISSOURI
DONALD THOMAS SAKO
NUMBER PE-28475
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED 4/6/2026
ROUTE VAR. | STATE MO
DISTRICT SW | SHEET NO. 3
COUNTY VARIOUS
JOB NO. J7P3529
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)

GARVER, LLC.
7509 NW TIFFANY SPRINGS PARKWAY, SUITE 200
KANSAS CITY, MO 64153
PHONE: (816) 298-6465
CERTIFICATE OF AUTHORITY NO. 2008013090

TEMPORARY EROSION CONTROL

SHEET	ROUTE	BEGIN STA	END STA	LOCATION	ALTERNATE DITCH CHECK (LF)	SEDIMENT REMOVAL (CY)	SILT FENCE (LF)	REMARKS
MO 43 (MAIN ST) AT 41ST ST								
27	MO 43	34+25	37+25	LT/RT	70	7.0	0	7 ALT DITCH CHECKS @ 50' SPACING
28	MO 43	39+49	40+99	LT/RT	40	4.0	0	4 ALT DITCH CHECKS @ 50' SPACING
				MO 43 (MAIN ST) AT 41ST SUBTOTALS	110	11.0	0	
LP 49 AT WALDO HATLER MEMORIAL DR								
29	WALDO HATLER	732+04	732+84	LT		0.9	90	
29	WALDO HATLER	732+15		RT	10	1.0		
29	WALDO HATLER	732+21	732+23	RT		0.7	66	
29	WALDO HATLER	733+66		RT	10	1.0		
29	WALDO HATLER	733+78	734+65	RT		1.0	99	
29	WALDO HATLER	733+99	734+09	LT		0.8	75	
				LP 49 AT WALDO HATLER MEMORIAL DR SUBTOTALS	20	5.4	330	
				PROJECT TOTALS	130	16.4	330	
				USE	130	16	330	

36 IN. SURFACE-MOUNT DELINEATOR POST

SHEET	ROUTE	BEGIN STA	END STA	LOCATION	WHITE (EA)	REMARKS
LP 49 AT WALDO HATLER MEMORIAL DR						
12	WALDO	732+65.82	732+76.95	RT	3	SW QUAD
12	WALDO	732+83.95	732+91.68	LT	3	NW QUAD
12	WALDO	733+41.32	733+47.81	RT	3	SE QUAD
12	WALDO	733+53.83	733+67.05	LT	3	NE QUAD
				LP 49 AT WALDO HATLER MEMORIAL SUBTOTAL	12	
US 60 AT OAK RIDGE DR						
13	US 60	711+20.04	711+35.35	LT	3	NW QUAD
13	US 60	711+68.96	711+83.15	RT	3	SE QUAD
13	US 60	711+84.52	712+32.79	LT	3	NE QUAD
				US 60 AT OAK RIDGE DR SUBTOTAL	9	
BUS 71 AT CEDAR ST						
14	BUS 71	72+99.23	73+53.28	RT	3	NW QUAD
14	BUS 71	74+07.76	74+49.63	LT	3	SE QUAD
				BUS 71 AT CEDAR ST SUBTOTAL	6	
				PROJECT TOTAL	27	

SUMMARY OF QUANTITIES
SHEET 8 OF 10

STATE OF MISSOURI
DONALD THOMAS SAIKO
NUMBER PE-28475
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED: 4/6/2026
ROUTE: VAR. | STATE: MO
DISTRICT: SW | SHEET NO.: 3
COUNTY: VARIOUS
JOB NO.: J7P3529
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)

GARVER, LLC.
7509 NW TIFFANY SPRINGS
PARKWAY, SUITE 200
KANSAS CITY, MO 64153
PHONE: (816) 298-5465
CERTIFICATE OF AUTHORITY
NO. 2008013090

LIGHTING POLE AND EQUIPMENT

POLE NUMBER	ROUTE	STATION	OFFSET	POLE TYPE AT 30 FT (EACH)	POLE TYPE AT DESIGN 2 45 FT (EACH)	POLE FOUNDATION 30 FT (EACH)	POLE FOUNDATION 45 FT (EACH)	BRACKET ARM 15 FT (EACH)	LUMINAIRE LED-A (EACH)	LUMINAIRE LED-C (EACH)	CABLE #10 AWG, 1C POLE & BRACKET (LF)
US 65 (ASH ST) AND RTE 32 (DALLAS ST)											
EXLP101	RTE 32	938+96	80' LT.						1		
EXLP102	RTE 32	0+76	46' LT.						1		
EXLP201	RTE 32	938+64	49' RT.						1		
EXLP202	RTE 32	0+48	88' RT.						1		
US 65 (ASH ST) AND RTE 32 (DALLAS ST) SUBTOTALS				0	0	0	0	0	4	0	0
US 60 AND OAK RIDGE DR											
LP 1A01	US 60	712+66	55' LT.	1		1		1	1		90
LP 1A02	US 60	710+99	95' LT.	1		1		1	1		90
LP 1B01	US 60	711+95	105' RT.	1		1		1	1		90
LP 1B02	US 60	710+49	51' RT.	1		1		1	1		90
US 60 AND OAK RIDGE DR SUBTOTALS				4	0	4	0	4	4	0	360
BUS 71 AND CEDAR ST											
LP 2A01	CEDAR ST	68+92	111' LT.		1		1	1		1	120
LP 2A02	CEDAR ST	68+64	35' RT.		1		1	1		1	120
LP 2B01	CEDAR ST	70+72	30' LT.		1		1	1		1	120
LP 2B02	CEDAR ST	70+78	93' RT.		1		1	1		1	120
BUS 71 AND CEDAR ST SUBTOTALS				0	4	0	4	4	0	4	480
PROJECT TOTALS				4	4	4	4	8	8	4	840

RIGID CONDUIT

FROM	TO	CENTER TO CENTER (LF)	4 IN PUSHED (LF)	REMARKS
US 60 AND OAK RIDGE DR				
1	2	101	99	PULLBOX TO PULLBOX
3	4	84	82	PULLBOX TO PULLBOX
5	6	81	79	PULLBOX TO PULLBOX
US 60 AND OAK RIDGE DR SUBTOTAL			260	
BUS 71 AND CEDAR ST				
1	2	73	71	PULLBOX TO PULLBOX
3	4	63	61	PULLBOX TO PULLBOX
5	6	93	91	PULLBOX TO PULLBOX
BUS 71 AND CEDAR ST SUBTOTAL			230	
PROJECT TOTAL			490	

PULL BOX, CONCRETE

* ITEMS FOR WHICH SEPARATE PAYMENT WILL NOT BE MADE

PULL BOX NUMBER	ROUTE	STATION	OFFSET	* DRAIN TYPE	(EACH)
US 60 AND OAK RIDGE DR					
1	US 60	712+48	51' RT.	I	1
2	US 60	712+49	50' LT.	I	1
3	US 60	711+93	86' LT.	I	1
4	US 60	710+95	95' LT.	I	1
5	US 60	711+95	99' RT.	I	1
6	US 60	711+14	99' RT.	I	1
7	US 60	710+54	45' RT.	I	1
US 60 AND OAK RIDGE DR SUBTOTAL					7
BUS 71 AND CEDAR ST					
1	CEDAR ST	69+70	124' LT.	I	1
2	CEDAR ST	69+03	102' LT.	I	1
3	CEDAR ST	68+64	36' LT.	I	1
4	CEDAR ST	68+63	27' RT.	I	1
5	CEDAR ST	70+64	34' LT.	I	1
6	CEDAR ST	70+67	58' RT.	I	1
BUS 71 AND CEDAR ST SUBTOTAL					6
PROJECT TOTAL					13

LIGHTING CABLE/CABLE-CONDUIT

FROM	TO	CENTER TO CENTER (LF)	CABLE-CONDUIT 1 IN. - 2C#8 AWG & 1 BARE NEUTRAL (LF)	TYPE I TRENCHING (LF)	CABLE #8 AWG, 1C CABLE (LF)	WIRE #8 AWG BARE NEUTRAL (LF)	REMARKS
US 60 AND OAK RIDGE DR							
POWER	1	31	50	30			CIRCUIT 1A
1	2	101			226	113	CIRCUIT 1A
2	LP 1A01	19	27	20			CIRCUIT 1A
2	3	71	83	70			CIRCUIT 1A
3	4	84			192	96	CIRCUIT 1A
4	LP 1A02	13	21	14			CIRCUIT 1A
POWER	5	43	62	42			CIRCUIT 1B
5	LP 1B01	7	15	8			CIRCUIT 1B
5	6	81			186	93	CIRCUIT 1B
6	7	85	93	86			CIRCUIT 1B
7	LP 1B02	9	17	10			CIRCUIT 1B
US 60 AND OAK RIDGE DR SUBTOTALS		370	280		610	310	
BUS 71 AND CEDAR ST							
POWER	1	107	126	106			CIRCUIT 1A
1	2	73			170	85	CIRCUIT 1A
2	LP 1A01	15	23	16			CIRCUIT 1A
2	3	82	94	81			CIRCUIT 1A
3	4	63			150	75	CIRCUIT 1A
4	LP 1A02	9	17	10			CIRCUIT 1A
POWER	5	28	47	27			CIRCUIT 1B
5	LP 1B01	8	16	9			CIRCUIT 1B
5	6	93			210	105	CIRCUIT 1B
6	LP 1B02	35	43	36			CIRCUIT 1B
BUS 71 AND CEDAR ST SUBTOTALS		370	290		530	270	
PROJECT TOTALS		740	570		1,140	580	

SUMMARY OF QUANTITIES
SHEET 9 OF 10

STATE OF MISSOURI
DONALD THOMAS SAKO
NUMBER PE-28475
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED 4/6/2026
ROUTE VAR. | STATE MO
DISTRICT SW | SHEET NO. 3
COUNTY VARIOUS
JOB NO. J7P3529
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)

GARVER, LLC.
7509 NW TIFFANY SPRINGS
PARKWAY, SUITE 200
KANSAS CITY, MO 64153
PHONE: (816) 298-6465
CERTIFICATE OF AUTHORITY
NO. 2008013090

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	6	75.00			16	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	4	64.00			43	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	4	20.00			44A	NEXT XX MILES (PLAQUE)
WO8-1	48X48	16.00						BUMP
WO8-2	48X48	16.00						DIP
WO8-3	48X48	16.00						PAVEMENT ENDS
WO8-4	48X48	16.00						SOFT SHOULDER
WO8-5	48X48	16.00						SLIPPERY WHEN WET (SYMBOL)
WO8-6	48X48	16.00						TRUCK CROSSING
WO8-6c	48X48	16.00						TRUCK ENTRANCE
WO8-7	36X36	9.00						LOOSE GRAVEL
WO8-7a	36X36	9.00						FRESH OIL / LOOSE GRAVEL
WO8-9	48X48	16.00						LOW SHOULDER
WO8-11	48X48	16.00						UNEVEN LANES
WO8-12	48X48	16.00						NO CENTER LINE
WO8-15	48X48	16.00						GROOVED PAVEMENT
WO8-15P	30X24	5.00						MOTORCYCLE (PLAQUE)
WO8-17L	48X48	16.00						SHOULDER DROP-OFF (SYMBOL LEFT)
WO8-17R	48X48	16.00						SHOULDER DROP-OFF (SYMBOL RIGHT)
WO8-17P	30X24	5.00						SHOULDER DROP-OFF (PLAQUE)
W10-1	42RND.	9.62						RAILROAD CROSSING
WO12-1	24X24	4.00						DOUBLE DOWN ARROW (SYMBOL)
WO12-2	48X48	16.00						LOW CLEARANCE (SYMBOL)
W012-2x	24X18	3.00						LOW CLEARANCE (PLAQUE)
WO12-2a	84X24	14.00						OVERHEAD LOW CLEARANCE (FEET AND INCHES)
WO12-4	120X60	50.00						LOW CLEARANCE XX FT XX IN XX MILES AHEAD
WO12-5	120X60	50.00						WIDTH RESTRICTION XX FT XX IN XX MILES AHEAD
WO13-1	30X30	6.25						ADVISORY SPEED (PLAQUE)
WO16-2	30X24	5.00						XXX FEET (PLAQUE)
WO16-3	30X24	5.00						X MILE (PLAQUE)
WO20-1	48X48	16.00	23	368.00			2	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	8	128.00			5	RIGHT/CENTER/LEFT LANE CLOSED AHEAD
WO20-5a	48X48	16.00						2 RIGHT/CENTER/LEFT LANES CLOSED AHEAD
WO20-6a	48X48	16.00	4	64.00			6	RIGHT/CENTER/LEFT LANE CLOSED
WO20-7a	48X48	16.00						FLAGGER (SYMBOL)
WO21-2	36X36	9.00						FRESH OIL
WO21-5	48X48	16.00	8	128.00			21A/21B	RIGHT SHOULDER CLOSED / RIGHT SHOULDER CLOSED AHEAD
WO22-1	48X48	16.00						BLASTING ZONE AHEAD
WO22-2	42X36	10.50						TURN OFF 2-WAY RADIO AND PHONE
WO22-3	42X36	10.50						END BLASTING ZONE
GO22-1	21X15	2.19						WET PAINT (ARROW PIVOTS)

SIGN	SIZE IN.	AREA SQ.FT.	QTY EACH	TOTAL SQ.FT.	QTY RELOC EACH	TOTAL RELOC SQ.FT.	SIGN NO.	DESCRIPTION
GUIDE SIGNS								
E05-1	36X48	12.00						GORE EXIT
E05-2	48X36	12.00						EXIT OPEN
E05-2a	48X36	12.00						EXIT CLOSED
GO20-1	60X24	10.00						ROAD WORK NEXT XX MILES
GO20-2	48X24	8.00	14	112.00			26	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	18	108.00			54	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	40	480.00			4/25	SPEED LIMIT 30,35,40,45,50,55
R3-1	48X48	16.00						NO RIGHT TURN (SYMBOL)
R3-2	48X48	16.00	3	48.00			40	NO LEFT TURN (SYMBOL)
R3-3	36X36	9.00						NO TURNS
R3-4	48X48	16.00						NO U-TURN (SYMBOL)
R3-7L	30X30	6.25	4	25.00			19	LEFT LANE MUST TURN LEFT
R3-7R	30X30	6.25	4	25.00			20	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	4	48.00			42	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	3	20.25			41	ONE WAY ARROW (RIGHT)
R6-2L	24X30	5.00						ONE WAY (LEFT)
R6-2R	24X30	5.00						ONE WAY (RIGHT)
R9-9	24X12	2.00	10	20.00			60	SIDEWALK CLOSED
R9-11L	24X18	3.00						SIDEWALK CLOSED AHEAD, (ARROW LEFT) CROSS HERE
R9-11R	24X18	3.00						SIDEWALK CLOSED AHEAD, (ARROW RIGHT) CROSS HERE
R10-6	24X36	6.00						STOP HERE ON RED (45^ ARROW)
R11-2	48X30	10.00						ROAD CLOSED
R11-3a	60X30	12.50						ROAD CLOSED XX MILES AHEAD LOCAL TRAFFIC ONLY
R11-4	60X30	12.50						ROAD CLOSED TO THRU TRAFFIC
CONST-3A	60X48	20.00						FINE SIGN
CONST-3X	56X12	4.67						SPEEDING/PASSING (PLATE)
MISCELLANEOUS SIGNS								
CONST-5	48X36	12.00						POINT OF PRESENCE
CONST-5	96X48	32.00	6	192.00			61/61A	POINT OF PRESENCE
CONST-8	48X36	12.00	8	96.00			59	WORK ZONE NO PHONE ZONE
WO4-2L	48X48	12.00	8	96.00			6A	LEFT LANE ENDS
WO4-2R	48X48	12.00	4	48.00			6B	RIGHT LANE ENDS

616-10.05 CONSTRUCTION SIGNS	TOTAL	*2166
616-10.10 RELOCATED SIGNS	TOTAL	

ITEM NUMBER	TOTAL QTY	EFFECTIVE: 07-01-2025 DESCRIPTION
6122008		IMPACT ATTENUATOR 40 MPH (SAND BARRELS)
6122009		IMPACT ATTENUATOR 45 MPH (SAND BARRELS)
6122010		IMPACT ATTENUATOR 50 MPH (SAND BARRELS)
6122012		IMPACT ATTENUATOR 55 MPH (SAND BARRELS)
6122014		IMPACT ATTENUATOR 60 MPH (SAND BARRELS)
6122017		IMPACT ATTENUATOR 65 MPH (SAND BARRELS)
6122019		IMPACT ATTENUATOR 70 MPH (SAND BARRELS)
6122020		REPLACEMENT SAND BARREL
6122030		IMPACT ATTENUATOR (RELOCATION)
6122040		WORK ZONE CRASH CUSHION (NARROW)
6122041		WORK ZONE CRASH CUSHION (RELOCATION)
6123001	1	TRUCK MOUNTED ATTENUATOR (TMA)
6161012		BUOYS (BOATS KEEP OUT)
6161013		BUOYS (NO WAKE)
6161014		SPECIAL SIGN ASSEMBLY (BOATS KEEP OUT)
6161020		CHANNELIZER (DRUM-LIKE)
6161022		CHANNELIZER (CONE)
6161025	*108	CHANNELIZER (TRIM-LINE)
6161026		CHANNELIZER (VERTICAL PANEL)
6161030	*72	TYPE 3 MOVEABLE BARRICADE
6161033	*14	DIRECTION INDICATOR BARRICADE
6161040	*3	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	6	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
6169902	10	ADA COMPLIANT MOVEABLE BARRICADES

6169901	1	LUMP SUM TEMPORARY TRAFFIC CONTROL (*ITEM INCLUDED)

SUMMARY OF QUANTITIES
SHEET 10 OF 10

STATE OF MISSOURI
DONALD THOMAS SAKO
NUMBER PE-28475
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED 2/27/2026

ROUTE	STATE
VAR.	MO

DISTRICT	SHEET NO.
SW	3

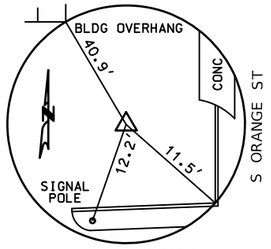
COUNTY: VARIOUS
JOB NO.: J7P3529
CONTRACT ID.:
PROJECT NO.:
BRIDGE NO.:

DESCRIPTION | DATE

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

GARVER, LLC.
7509 NW TIFFANY SPRINGS
PARKWAY, SUITE 200
KANSAS CITY, MO 64153
PHONE: (816) 298-6465
CERTIFICATE OF AUTHORITY
NO. 2008013090

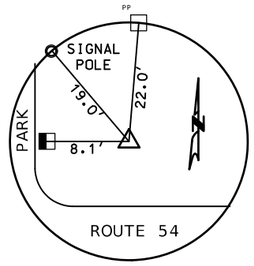
GARVER



S FORT SCOTT

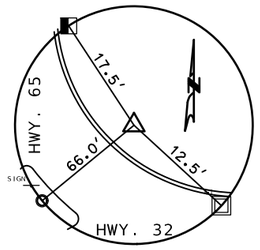
CONTROL POINT NO. 1
IRON ROD W/ CAP
N: 761154.841
E: 2833931.843
ELEV: 845.22

STA 847+45.04, 32.44'LT, FORT SCOTT ST
STA 786+04.89, 40.48'RT, LP 49 (ORANGE ST)



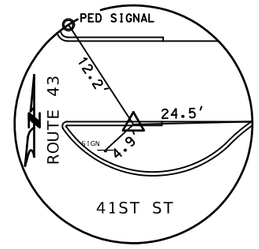
CONTROL POINT NO. 3
IRON ROD W/CAP
N: 618022.074
E: 2928007.840
EL: 921.81

STA 143+88.22, 26.04' LT
US ROUTE 54



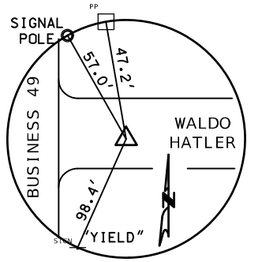
CONTROL POINT NO. 6
IRON ROD W/CAP
N: 658573.99
E: 1465674.162
EL: 1185.52

STA 0+91.02, 37.47'LT
MO ROUTE 32



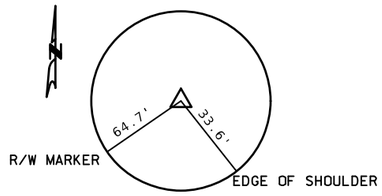
CONTROL POINT NO. 21
CROSS
N: 319554.193
E: 2784850.918
EL: 1037.27

STA 38+21.07, 74.50' LT
MO ROUTE 43



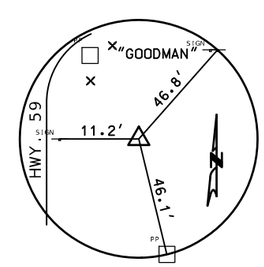
CONTROL POINT NO. 11
SURVEY SPIKE
N: 249423.630
E: 2821264.135
EL: 1141.68

STA 734+45.48, 21.57'LT
WALDO HATLER MEMORIAL DRIVE



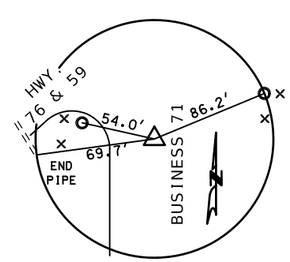
CONTROL POINT NO. 2
REBAR NE QUAD
N: 246717.8734
E: 2824969.1050
ELEV. 1220.07

STA 712+90.11, 69.91' LT
US ROUTE 60
(FROM JSR0095 PROJECT)



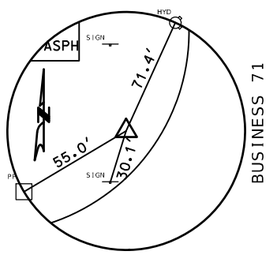
CONTROL POINT NO. 31
IRON ROD W/CAP
N: 207059.813
E: 2813295.241
EL: 1246.93

STA 88+56.42, 48.14'LT
MO ROUTE 59



CONTROL POINT NO. 21
SURVEY SPIKE
N: 178716.538
E: 2806014.954
EL: 938.24

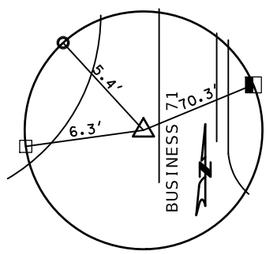
STA 1+59.83, 26.03'RT
BUSINESS 71



CEDAR ST

CONTROL POINT NO. 11
IRON ROD W/CAP
N; 172951.905
E: 2810140.997
EL: 908.29

STA 68+69.10, 69.95'LT, CEDAR ST
STA 72+79.97, 87.27'RT, BUSINESS 71



CONTROL POINT NO. 2
SURVEY SPIKE
N: 154191.039
E: 2821590.330
EL: 885.94

STA 295+14.17, 24.40'RT
BUSINESS 71

REFERENCE POINTS
SHEET 1 OF 1

STATE OF MISSOURI
DONALD THOMAS SAIKO
NUMBER PE-28475
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED
2/13/2026

ROUTE	STATE
VAR.	MO
DISTRICT	SHEET NO.
SW	4

COUNTY
VARIOUS

JOB NO.
J7P3529

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)

GARVER, LLC.
7509 NW TIFFANY SPRINGS
PARKWAY, SUITE 200
KANSAS CITY, MO 64153
PHONE: (816) 298-6465
CERTIFICATE OF AUTHORITY
NO. 2008013090

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-LP 49/FORT SCOTT ST	
COORDINATE SYSTEM	MODIFIED STATE PLANE (GROUND)
HORIZONTAL DATUM	NAD 83 (02/2000) EPOCH N/A
VERTICAL DATUM	NAVD 88
GEOID MODEL	GEOID 18
ELEVATIONS DETERMINED BY	MODOT GNSS
PROJECT PROJECTION FACTOR	1.000092215

REFERENCE CONTROL INFORMATION-LP 49/FORT SCOTT ST	
COORDINATE SYSTEM	MODIFIED STATE PLANE (GROUND)
CONTROL STATION	MODOT CORS
DESIGNATION	BUT
CORS_ID	N/A
PID	JE0312
LATITUDE	38°16'50.71496" N
LONGITUDE	94°20'38.50795" W
NORTHING (M)	234623.0980
EASTING (M)	863646.0390
ZONE	2403 (MO-WEST)
PROJECT AVERAGE GRID FACTOR	0.99990525

PROJECT COORDINATE INFORMATION-US 54/PARK ST	
COORDINATE SYSTEM	MODIFIED STATE PLANE (GROUND)
HORIZONTAL DATUM	NAD 83 (06/2019) EPOCH 2010
VERTICAL DATUM	NAVD 88
GEOID MODEL	GEOID 18
ELEVATIONS DETERMINED BY	MODOT GNSS
PROJECT PROJECTION FACTOR	1.000076172

REFERENCE CONTROL INFORMATION-US 54/PARK ST	
COORDINATE SYSTEM	MODIFIED STATE PLANE (GROUND)
CONTROL STATION	MODOT CORS
DESIGNATION	MODOT COLLINS CORS ARP
CORS_ID	MOLN
PID	DL6155
LATITUDE	37°53'13.51132" N
LONGITUDE	93°37'24.25107" W
NORTHING (M)	191280.0610
EASTING (M)	927107.7790
ZONE	2403 (MO-WEST)
PROJECT AVERAGE GRID FACTOR	0.99997777

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 #___
N 761154.841 X 0.999941177 = N 761110.0672
E 2833931.843 X 0.999941177 = E 2833765.141

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
PROJECT CONTROL POINTS - LP 49/FORT SCOTT ST							
	847+45.04	FORT SCOTT	32.44'LT	761154.8410	2833931.8430	845.22	CP #1 IRON ROD W/ CAP
ALIGNMENTS - LP 49/FORT SCOTT ST							
LP 49							
	783+00.00	LP 49		761461.3576	2833965.1197		BEG LP 49
10	784+00.00	LP 49		761361.3841	2833962.8164		PI LP 49
	789+53.80	LP 49		760808.1750	2833988.3911		END LP 49
W FORT SCOTT ST							
	845+98.60	W FORT SCOTT		761128.0938	2833784.2553		BEG W FORT SCOTT ST
10	847+88.43	W FORT SCOTT		761120.7412	2833973.9413		END W FORT SCOTT ST
E FORT SCOTT ST							
10	0+00.00	E FORT SCOTT		761120.7412	2833973.9413		BEG E FORT SCOTT ST
	3+00.00	E FORT SCOTT		761112.5337	2834273.8290		END E FORT SCOTT ST
MO 52							
	845+00.00	MO 52		761131.9128	2833685.7293		BEG MO 52
	845+98.60	MO 52		761128.0938	2833784.2553		PC CURVE 1
10	847+88.43	MO 52		761120.7412	2833973.9413		PI CURVE 1
	849+02.65	MO 52		760931.1153	2833982.7076		END MO 52, PT CURVE 1
PROJECT CONTROL POINTS - US 54/PARK ST							
SG07	143+88.22	US 54	26.04'LT	618022.0740	2928007.8400	921.81	CP #3 IRON ROD W/ CAP
ALIGNMENTS - US 54/PARK ST							
US 54							
	138+00.00	US 54		618019.4494	2927419.0455		BEG US 54
	148+87.40	US 54		617976.1949	2928505.5848		END US 54

COORDINATE POINT SHEET
SHEET 1 OF 5

STATE OF MISSOURI
DONALD THOMAS SAIKO
NUMBER PE-28475
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED 2/13/2026
ROUTE VAR. | STATE MO
DISTRICT SW | SHEET NO. 5
COUNTY VARIOUS
JOB NO. J7P3529
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)

GARVER, LLC.
7509 NW TIFFANY SPRINGS PARKWAY, SUITE 200
KANSAS CITY, MO 64153
PHONE: (816) 298-6465
CERTIFICATE OF AUTHORITY NO. 2008013090

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-US 65/MO 32

COORDINATE SYSTEM	MODIFIED STATE PLANE (GROUND)
HORIZONTAL DATUM	NAD 83 (04/2025) EPOCH 2010
VERTICAL DATUM	NAVD 88
GEOID MODEL	GEOID 18
ELEVATIONS DETERMINED BY	MODOT GNSS
PROJECT PROJECTION FACTOR	1.000083987

REFERENCE CONTROL INFORMATION-US 65/MO 32

COORDINATE SYSTEM	MODIFIED STATE PLANE (GROUND)
CONTROL STATION	MODOT CORS
DESIGNATION	MODOT BUFFALO CORS ARP
CORS_ID	MOBU
PID	DM4668
LATITUDE	37°39'35.05459" N
LONGITUDE	93°06'10.47454" W
NORTHING (M)	202838.8920
EASTING (M)	446804.5220
ZONE	2402 (MO-CENTRAL)
PROJECT AVERAGE GRID FACTOR	0.99992007

PROJECT COORDINATE INFORMATION-MO 43/41st ST

COORDINATE SYSTEM	MODIFIED STATE PLANE (GROUND)
HORIZONTAL DATUM	NAD 83 (06/27/12) EPOCH 2010
VERTICAL DATUM	NAVD 88
GEOID MODEL	GEOID 18
ELEVATIONS DETERMINED BY	MODOT GNSS
PROJECT PROJECTION FACTOR	1.000107697

REFERENCE CONTROL INFORMATION-MO 43/41st ST

COORDINATE SYSTEM	MODIFIED STATE PLANE (GROUND)
CONTROL STATION	MODOT CORS
DESIGNATION	NE002
CORS_ID	N/A
PID	HE1231
LATITUDE	37°02'25.35502" N
LONGITUDE	94°30'51.83991" W
NORTHING (M)	96950.1660
EASTING (M)	848718.9880
ZONE	2403 (MO-WEST)
PROJECT AVERAGE GRID FACTOR	0.99989640

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 #___
N 207059.813 X 0.99990113 = N 207039.341
E 2813295.241 X 0.99990113 = E 2813017.091

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
PROJECT CONTROL POINTS - US 65/MO 32							
	0+91.02	MO 32 E	37.47'LT	658573.9900	1465674.1620	1185.52	CP #6 IRON ROD W/ CAP
ALIGNMENTS - US 65/MO 32							
US 65							
	945+00.00	US 65		659057.1053	1465598.3963		BEG US 65
SG13	950+17.30	US 65		658540.0730	1465581.7560		PI US 65
	955+00.00	US 65		658057.6229	1465566.2260		END US 65
MO 32 WEST							
	935+00.00	MO 32 W		658558.0546	1465136.2187		BEG MO 32 WEST
SG13	939+45.90	MO 32 W		658540.0730	1465581.7560		END MO 32 WEST
MO 32 EAST							
SG13	0+00.00	MO 32 E		658540.0730	1465581.7560		BEG MO 32 EAST
	5+00.00	MO 32 E		658520.7196	1466081.3813		END MO 32 EAST
PROJECT CONTROL POINTS - MO 43/41st ST							
11	38+21.07	MO 43	74.50'LT	319554.1930	2784850.9180	1037.27	CP #21 CROSS
ALIGNMENTS - MO 43/41st ST							
MO 43							
11	34+00.00	MO 43		319977.5915	2784791.0072		BEG MO 43
12	42+99.06	MO 43		319079.0725	2784759.9433		END MO 43

COORDINATE POINT SHEET
SHEET 2 OF 5

STATE OF MISSOURI
DONALD THOMAS SAIKO
NUMBER PE-28475
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED 2/13/2026
ROUTE VAR. | STATE MO
DISTRICT SW | SHEET NO. 6
COUNTY VARIOUS
JOB NO. J7P3529
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)

GARVER, LLC.
7509 NW TIFFANY SPRINGS PARKWAY, SUITE 200
KANSAS CITY, MO 64153
PHONE: (816) 298-6465
CERTIFICATE OF AUTHORITY NO. 2008013090

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-LP 49/ WALDO HATLER	
COORDINATE SYSTEM	MODIFIED STATE PLANE (GROUND)
HORIZONTAL DATUM	NAD 83 (06/17/12) EPOCH 2010
VERTICAL DATUM	NAVD 88
GEOID MODEL	GEOID 18
ELEVATIONS DETERMINED BY	MODOT GNSS
PROJECT PROJECTION FACTOR	1.000107697

REFERENCE CONTROL INFORMATION-LP 49/ WALDO HATLER	
COORDINATE SYSTEM	MODIFIED STATE PLANE (GROUND)
CONTROL STATION	MODOT CORS
DESIGNATION	NE002
CORS_ID	N/A
PID	HE1231
LATITUDE	37°02'25.35502" N
LONGITUDE	94°30'51.83991" W
NORTHING (M)	96950.1660
EASTING (M)	848718.9880
ZONE	2403 (MO-WEST)
PROJECT AVERAGE GRID FACTOR	0.9998964

PROJECT COORDINATE INFORMATION-US 60/OAK RIDGE (JSR0095)	
COORDINATE SYSTEM	MODIFIED STATE PLANE (GROUND)
HORIZONTAL DATUM	NAD 83 (04/2025) EPOCH 2010
VERTICAL DATUM	NAVD 88
GEOID MODEL	GEOID 18
ELEVATIONS DETERMINED BY	MODOT GNSS
PROJECT PROJECTION FACTOR	1.000098875

REFERENCE CONTROL INFORMATION-US 60/OAK RIDGE (JSR0095)	
COORDINATE SYSTEM	MODIFIED STATE PLANE (GROUND)
CONTROL STATION	
DESIGNATION	MODOT ANDERSON CORS ARP
CORS_ID	MOA2
PID	DN6071
LATITUDE	36°41'03.39412" N
LONGITUDE	94°26'18.24745" W
NORTHING (M)	57435.9130
EASTING (M)	855505.1980
ZONE	2403 (MO-WEST)
PROJECT AVERAGE GRID FACTOR	0.99989926

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 #___
N 207059.813 X 0.99990113 = N 207039.341
E 2813295.241 X 0.99990113 = E 2813017.091

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
PROJECT CONTROL POINTS - LP 49/WALDO HATLER MEMORIAL DR							
13	734+45.48	WALDO	21.57'LT	249423.6300	2821264.1350	1141.68	CP #11 SURVEY SPIKE
ALIGNMENTS - LP 49/WALDO HATLER MEMORIAL DR							
LP 49							
	484+00.00	LP 49		250036.4738	2821199.6562		BEG LP 49
	495+00.00	LP 49		248939.3952	2821119.5401		END LP 49
WALDO HATLER MEMORIAL DR							
	723+92.61	WALDO		249165.8628	2820253.4845		BEG WALDO HATLER, PC CURVE 1
	727+40.88	WALDO		249161.1023	2820601.7201		PI CURVE 1
	730+81.50	WALDO		249279.5511	2820929.2266		PT CURVE 1
	740+00.00	WALDO		249591.9404	2821792.9714		END WALDO HATLER
PROJECT CONTROL POINTS - US 60/OAK RIDGE DR (JSR0095)							
14	712+90.11	US 60	69.91'LT	246717.8734	2824969.1050	1220.07	CP #2 REBAR NE QUAD(JSR0095 PROJECT)
ALIGNMENTS - US 60/OAK RIDGE DR (JSR0095)							
US 60							
	701+23.30	US 60		246238.3927	2823903.0654		BEG US 60 (JSR0095 PROJECT)
	723+00.00	US 60		247010.9339	2825938.0599		END US 60 (JSR0095 PROJECT)
OAK RIDGE DR							
	0+00.00	OAK RIDGE		246840.6123	2824716.5550		BEG OAK RIDGE DR (JSR0095 PROJECT)
	0+99.32	OAK RIDGE		246764.6026	2824780.4827		PC CURVE 1 (JSR0095 PROJECT)
	1+43.38	OAK RIDGE		246730.8803	2824808.8447		PI CURVE 1 (JSR0095 PROJECT)
14	1+86.82	OAK RIDGE		246690.4266	2824826.3119		PT CURVE 1 (JSR0095 PROJECT)
	4+74.91	OAK RIDGE		246425.9409	2824940.5121		END OAK RIDGE DR (JSR0095 PROJECT)

COORDINATE POINT SHEET
SHEET 3 OF 5

STATE OF MISSOURI
DONALD THOMAS SAIKO
NUMBER PE-28475
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED 2/13/2026
ROUTE VAR. | STATE MO
DISTRICT SW | SHEET NO. 7
COUNTY VARIOUS
JOB NO. J7P3529
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)

GARVER, LLC.
7509 NW TIFFANY SPRINGS
PARKWAY, SUITE 200
KANSAS CITY, MO 64153
PHONE: (816) 298-6465
CERTIFICATE OF AUTHORITY
NO. 2008013090

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-MO 59/RT C

COORDINATE SYSTEM	MODIFIED STATE PLANE (GROUND)
HORIZONTAL DATUM	NAD 83 (04/2025) EPOCH 2010
VERTICAL DATUM	NAVD 88
GEOID MODEL	GEOID 18
ELEVATIONS DETERMINED BY	MODOT GNSS
PROJECT PROJECTION FACTOR	1.000098875

REFERENCE CONTROL INFORMATION-MO 59/RT C

COORDINATE SYSTEM	MODIFIED STATE PLANE (GROUND)
CONTROL STATION	MODOT CORS
DESIGNATION	MODOT ANDERSON CORS ARP
CORS_ID	MOA2
PID	DN6071
LATITUDE	36°41'03.39297" N
LONGITUDE	94°26'18.24627" W
NORTHING (M)	57435.8780
EASTING (M)	855505.2270
ZONE	2403 (MO-WEST)
PROJECT AVERAGE GRID FACTOR	0.99989926

PROJECT COORDINATE INFORMATION-MO 59/BUS71 & MO 76

COORDINATE SYSTEM	MODIFIED STATE PLANE (GROUND)
HORIZONTAL DATUM	NAD 83 (04/2025) EPOCH 2010
VERTICAL DATUM	NAVD 88
GEOID MODEL	GEOID 18
ELEVATIONS DETERMINED BY	MODOT GNSS
PROJECT PROJECTION FACTOR	1.000098875

REFERENCE CONTROL INFORMATION-MO 59/BUS71 & MO 76

COORDINATE SYSTEM	MODIFIED STATE PLANE (GROUND)
CONTROL STATION	MODOT CORS
DESIGNATION	MODOT ANDERSON CORS ARP
CORS_ID	MOA2
PID	DN6071
LATITUDE	36°41'03.39297" N
LONGITUDE	94°26'18.24627" W
NORTHING (M)	57435.8780
EASTING (M)	855505.2270
ZONE	2403 (MO-WEST)
PROJECT AVERAGE GRID FACTOR	0.99989926

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 #___
N 207059.813 X 0.99990113 = N 207039.341
E 2813295.241 X 0.99990113 = E 2813017.091

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
PROJECT CONTROL POINTS - MO 59/RT C							
SG37	88+56.42	MO 59	48.14'LT	207059.8130	2813295.2410	1246.93	CP #31 IRON ROD W/ CAP
ALIGNMENTS - MO 59/RT C							
MO 59							
	83+00.00	MO 59		207617.7097	2813269.4178		BEG MO 59
	92+88.80	MO 59		206629.7022	2813229.8361		END MO 59
RT C							
SG37	0+00.00	RT C		207123.7059	2813249.6274		BEG RT C
	6+63.30	RT C		207469.7128	2813815.5303		END RT C
PHOENIX RD							
	0+00.00	PHOENIX		206911.5238	2812902.5980		BEG PHOENIX RD
SG37	4+06.76	PHOENIX		207123.7059	2813249.6274		END PHOENIX RD
PROJECT CONTROL POINTS - MO 59/BUS 71 & MO 76							
	1+59.83	BUS 71	26.03'RT	178716.5380	2806014.9540	938.24	CP #21 SURVEY SPIKE
ALIGNMENTS - MO 59/BUS 71 & MO 76							
BUS 71 & MO 76							
	381+25.70	BUS 71		179434.5940	2805858.6214		BEG BUS 71
SG43	386+99.80	BUS 71		178878.2056	2806000.1230		EQ STA BK
SG43	0+00.00	BUS 71		178878.2056	2806000.1230		EQ STA AHD, BEG BUS 71/MO 76
SG43	1+03.40	BUS 71		178777.9958	2806025.6085		PC CURVE 1 BUS 71/MO 76
	4+03.46	BUS 71		178487.1896	2806099.5668		PI CURVE 1 BUS 71/MO 76
	7+01.32	BUS 71		178218.0184	2806232.1752		END BUS 71/MO 76, PT CURVE 1 MO 76
MO 59 & MO 76							
SG43	0+00.00	MO 59		178878.2056	2806000.1230		BEG MO 59/MO 76
SG43	0+29.41	MO 59		178857.6766	2805979.0635		PC CURVE 1 MO 59/MO 76
	1+98.11	MO 59		178739.9160	2805858.2591		PI CURVE 1 MO 59/MO 76
	3+17.38	MO 59		178592.5615	2805940.4049		PT CURVE 1 MO 59/MO 76
	4+92.16	MO 59		178439.9075	2806025.5051		END MO 59/MO 76

COORDINATE POINT SHEET
SHEET 4 OF 5

STATE OF MISSOURI
DONALD THOMAS SAIKO
NUMBER PE-28475
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED 2/13/2026
ROUTE VAR. | STATE MO
DISTRICT SW | SHEET NO. 8
COUNTY VARIOUS
JOB NO. J7P3529
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)

GARVER, LLC.
7509 NW TIFFANY SPRINGS
PARKWAY, SUITE 200
KANSAS CITY, MO 64153
PHONE: (816) 298-6465
CERTIFICATE OF AUTHORITY
NO. 2008013090

c:\projectwise\garver-pw.bentley.com_garver-pw-01\d0163749\008_CP_04_J7P3529_11.dgn 2:02:30 PM 2/13/2026

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-BUS 71/CEDAR ST	
COORDINATE SYSTEM	MODIFIED STATE PLANE (GROUND)
HORIZONTAL DATUM	NAD 83 (04/2025) EPOCH 2010
VERTICAL DATUM	NAVD 88
GEOID MODEL	GEOID 18
ELEVATIONS DETERMINED BY	MODOT GNSS
PROJECT PROJECTION FACTOR	1.000098875

REFERENCE CONTROL INFORMATION-BUS 71/CEDAR ST	
COORDINATE SYSTEM	MODIFIED STATE PLANE (GROUND)
CONTROL STATION	MODOT CORS
DESIGNATION	MODOT ANDERSON CORS ARP
CORS_ID	MOA2
PID	DN6071
LATITUDE	36°41'03.39297" N
LONGITUDE	94°26'18.24627" W
NORTHING (M)	57435.8780
EASTING (M)	855505.2270
ZONE	2403 (MO-WEST)
PROJECT AVERAGE GRID FACTOR	0.99989926

PROJECT COORDINATE INFORMATION-BUS 71/RT W	
COORDINATE SYSTEM	MODIFIED STATE PLANE (GROUND)
HORIZONTAL DATUM	NAD 83 (04/2025) EPOCH 2010
VERTICAL DATUM	NAVD 88
GEOID MODEL	GEOID 18
ELEVATIONS DETERMINED BY	MODOT GNSS
PROJECT PROJECTION FACTOR	1.000098875

REFERENCE CONTROL INFORMATION-BUS 71/RT W	
COORDINATE SYSTEM	MODIFIED STATE PLANE (GROUND)
CONTROL STATION	MODOT CORS
DESIGNATION	MODOT ANDERSON CORS ARP
CORS_ID	MOA2
PID	DN6071
LATITUDE	36°41'03.39297" N
LONGITUDE	94°26'18.24627" W
NORTHING (M)	57435.8780
EASTING (M)	855505.2270
ZONE	2403 (MO-WEST)
PROJECT AVERAGE GRID FACTOR	0.99989926

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 #___
N 207059.813 X 0.99990113 = N 207039.341
E 2813295.241 X 0.99990113 = E 2813017.091

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
PROJECT CONTROL POINTS - BUS 71/CEDAR ST							
15	72+79.97	BUS 71	87.27'RT	172951.9050	2810140.9970	908.29	CP #11 IRON ROD W/ CAP
ALIGNMENTS - BUS 71/CEDAR ST							
BUS 71							
	66+00.00	BUS 71		173549.9837	2809827.3562		BEG BUS 71
	68+17.80	BUS 71		173378.8147	2809962.0342		PC CURVE 1 BUS 71
15	73+25.11	BUS 71		172980.1176	2810275.7343		PI CURVE 1 BUS 71
	78+21.97	BUS 71		172497.9432	2810433.4524		PT CURVE 1 BUS 71
	80+00.00	BUS 71		172328.7304	2810488.8015		END BUS 71
CEDAR ST							
	66+00.00	CEDAR ST		172821.0332	2809894.3645		BEG CEDAR ST
	67+37.20	CEDAR ST		172853.6876	2810027.6215		PC CURVE 2 CEDAR ST
15	69+70.66	CEDAR ST		172909.2537	2810254.3779		PI CURVE 2 CEDAR ST
	72+03.87	CEDAR ST		172946.1871	2810484.9034		PT CURVE 2 CEDAR ST
	74+37.34	CEDAR ST		172983.1204	2810715.4282		END CEDAR ST
PROJECT CONTROL POINTS - BUS 71/RT W							
SG55	295+14.17	BUS 71	24.40'RT	154191.0390	2821590.3300	885.94	CP #2 SURVEY SPIKE
ALIGNMENTS - BUS 71/RT W							
BUS 71							
	289+00.00	BUS 71		154715.6612	2821270.0613		BEG BUS 71
	304+00.00	BUS 71		153467.4083	2822101.8453		END BUS 71
RT W							
SG55	0+00.00	RT W		154174.7516	2821630.5011		BEG RT W
	1+94.30	RT W		154282.4957	2821792.1918		PC CURVE 1 RT W
	3+17.26	RT W		154350.6800	2821894.5157		PI CURVE 1 RT W
	4+13.94	RT W		154473.1388	2821883.4188		PT CURVE 1 RT W

COORDINATE POINT SHEET
SHEET 5 OF 5

STATE OF MISSOURI
DONALD THOMAS SAIKO
NUMBER PE-28475
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED
2/13/2026

ROUTE	STATE
VAR.	MO
DISTRICT	SHEET NO.
SW	9

COUNTY
VARIOUS

JOB NO.
J7P3529

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)

GARVER, LLC.
7509 NW TIFFANY SPRINGS
PARKWAY, SUITE 200
KANSAS CITY, MO 64153
PHONE: (816) 298-6465
CERTIFICATE OF AUTHORITY
NO. 2008013090

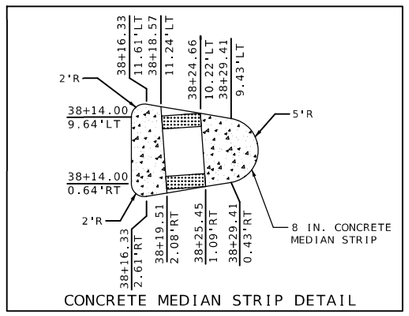
SCALE

0 20 40 60

℄ MO 43, STA. 37+71.49, 2.31' LT TO
℄ MO 43, STA. 38+10.84, 0.21' RT
15" X 38' GROUP A PIPE
W/ 15" GROUP A FES AND
TYPE A PIPE COLLAR

℄ MO 43, STA. 38+94.86, 0.05' RT TO
℄ MO 43, STA. 39+31.11, 3.12' RT
15" X 37' GROUP A PIPE
W/ 15" GROUP A FES AND
TYPE A PIPE COLLAR

DA = 0.55 ACRES
Q(25) = 2.98 CFS



CONCRETE MEDIAN STRIP DETAIL

SCHOOL DISTRICT OF JOPLIN
(JOPLIN R-8 SCHOOL DISTRICT)

S23-T27N-R33W

EXIST. R/W

LICENSE PLATE READER
(R) BY OTHERS

EXIST. CITY R/W

E. 41ST ST

35

START STA 34+00.00

℄ MO 43 (MAIN ST.)
S01°58'48"W

STA. 35+64.01

SLOPE LIMITS

STA. 36+43.51

8" CONC MEDIAN STRIP
SEE DETAIL

INSTALL 15" GROUP A FES
INSTALL 15" GROUP A PIPE
INSTALL TYPE A PIPE COLLAR

BEGIN PROJECT (LOCATION 4)
STA. 35+43.51

MATCHLINE STA. 38+40.00

OLD MAIN STREET

EXIST. R/W

LEGEND:
- OPTIONAL PAVEMENT
- CONCRETE MEDIAN STRIP
- PROPOSED 8" SIDEWALK

S22-T27N-R33W

RKS DEVELOPMENT, LLC

RENT JOPLIN.COM LLC

DONALD D. WOLTJER

DONALD D. WOLTJER

MO 43 AND 41ST STREET
LEFT TURN LANE
SPECIAL SHEET
SHEET 1 OF 5

STATE OF MISSOURI
DONALD THOMAS SAIKO
NUMBER PE-28475
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED
2/13/2026

ROUTE	STATE
VAR.	MO
DISTRICT	SHEET NO.
SW	10

COUNTY
VARIOUS

JOB NO.
J7P3529

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

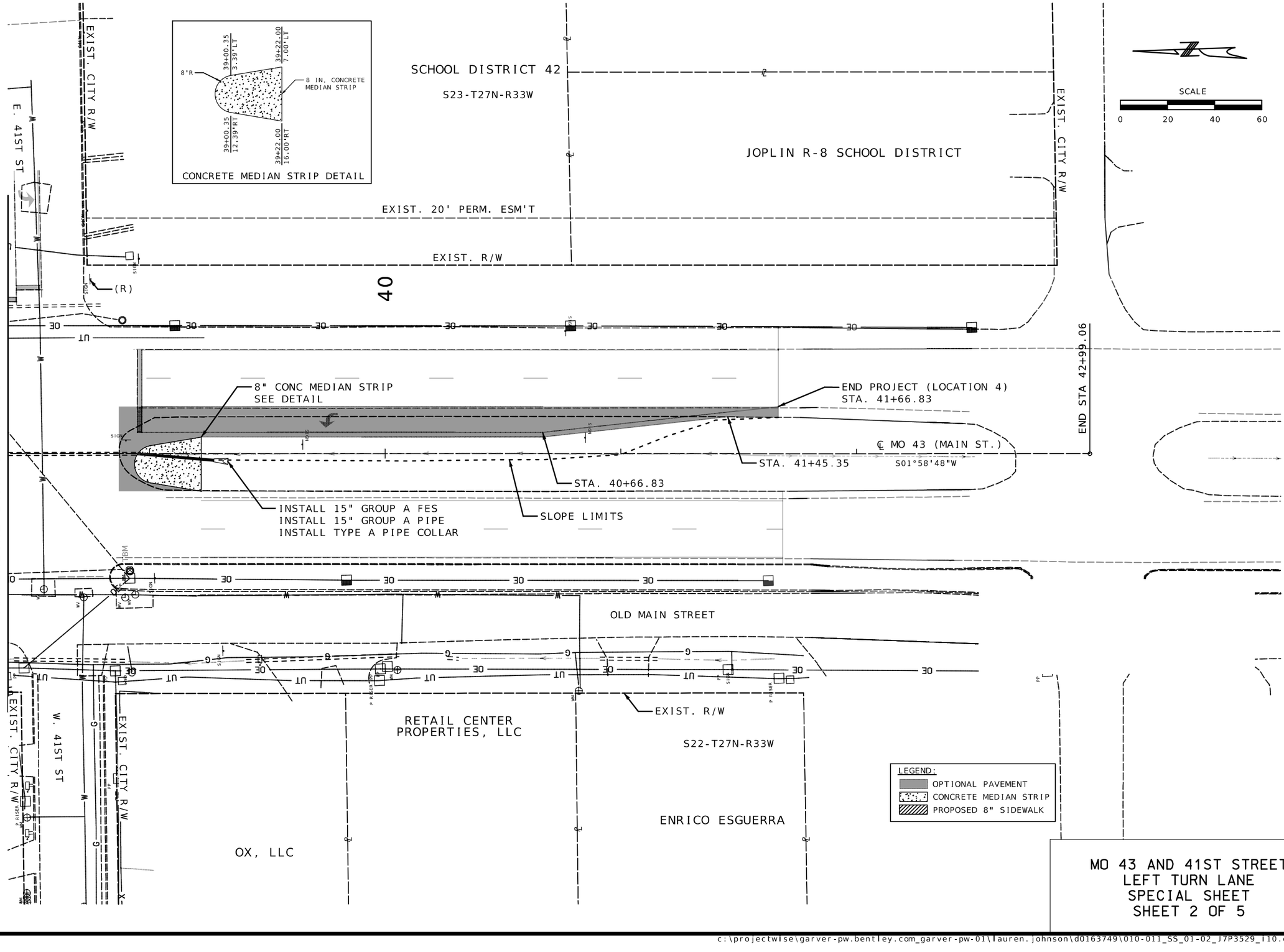
DESCRIPTION	DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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

GARVER, LLC.
7509 NW TIFFANY SPRINGS
PARKWAY, SUITE 200
KANSAS CITY, MO 64153
PHONE: (816) 298-6465
CERTIFICATE OF AUTHORITY
NO. 2008013090

GARVER



MO 43 AND 41ST STREET
LEFT TURN LANE
SPECIAL SHEET
SHEET 2 OF 5

STATE OF MISSOURI
DONALD THOMAS SAIKO
NUMBER PE-28475
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED
2/13/2026

ROUTE	STATE
VAR.	MO
DISTRICT	SHEET NO.
SW	11

COUNTY
VARIOUS

JOB NO.
J7P3529

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)

GARVER, LLC.
7509 NW TIFFANY SPRINGS PARKWAY, SUITE 200
KANSAS CITY, MO 64153
PHONE: (816) 298-6465
CERTIFICATE OF AUTHORITY NO. 2008013090

NOTES:
-REMOVE EXISTING ISLAND
-RESURFACE WITH SP125C (PG64-22)
APPROXIMATE 2 IN. DEPTH
-CONST NEW 3 IN. CONCRETE MEDIAN STRIP

CONCRETE MEDIAN STRIP (MOUNTABLE)

SCALE
0 10 20 30

℄ LP49
S04°10'36"W
490
N70°07'00"E
℄ STA 733+16.50 WALDO HATLER MEMORIAL DRIVE
℄ STA 490+78.80 LP49

3 IN. CONCRETE MEDIAN STRIP
+93.49 26.07'LT
+82.92 19.11'LT
2'R
+96.34 23.54'LT
+93.51 17.18'LT
(R)
+83.95 16.00'LT
+91.68 16.00'LT

2'R +56.81 26.52'LT
+60.22 26.93'LT
(R)
+68.65 16.09'LT
+52.02 15.78'LT
3 IN. CONCRETE MEDIAN STRIP
+53.83 12.97'LT
+67.05 12.86'LT

STA. 734+00.00
℄ WALDO HATLER MEMORIAL DR.
STA. 732+00.00

2'R +65.82 13.00'RT
+76.95 13.00'RT
3 IN. CONCRETE MEDIAN STRIP
+64.20 16.17'RT
+78.77 15.82'RT
(R)
+71.09 25.67'RT
+74.53 25.31'RT

2'R +41.32 16.00'RT
+47.81 16.00'RT
+39.49 17.18'RT
+37.11 22.52'RT
(R)
+48.84 19.71'RT
+39.97 25.05'RT
3 IN. CONCRETE MEDIAN STRIP

NOTE:

ALL ISLAND STATION AND OFFSETS ARE SHOWN FROM ℄ WALDO HATLER MEMORIAL DR.

SEE TYPICAL SHEET 2 FOR GRADING DETAILS.

LP 49 AND WALDO HATLER
ISLAND DETAILS AND SIGNAL GRADING
SPECIAL SHEET
SHEET 3 OF 5

STATE OF MISSOURI
DONALD THOMAS SAIKO
NUMBER PE-28475
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED 2/26/2026
ROUTE VAR. | STATE MO
DISTRICT SW | SHEET NO. 12
COUNTY VARIOUS
JOB NO. J7P3529
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)

GARVER, LLC.
7509 NW TIFFANY SPRINGS
PARKWAY, SUITE 200
KANSAS CITY, MO 64153
PHONE: (816) 298-6465
CERTIFICATE OF AUTHORITY
NO. 2008013090

c:\projectwise\garver-pw.bentley.com_garver-pw-01\d0163749\012_SS_03_J7P3529_i10.dgn 3:13:50 PM 2/26/2026

PT STA 1+86.82

EXIST. R/W

SCALE
0 10 20 30

+32.17
69.85'LT
2'R
+36.05
69.23'LT

8 IN. CONCRETE
MEDIAN STRIP

+18.16
31.36'LT
(R)
+37.34
30.77'LT
2'R
+20.04
28.68'LT
+35.35
28.70'LT
2'R

8 IN. CONCRETE
MEDIAN STRIP
+84.87
38.28'LT
2'R
+82.37
36.32'LT
+33.28
25.94'LT
+82.52
23.98'LT
2'R
2'R
+84.52
22.00'LT
+32.79
22.00'LT

℄ STA 711+51.13 US 60
℄ STA 2+81.85 OAK RIDGE DR.

STA.
711+00.00

℄ OAK RIDGE DR

EX. ℄ US 60

N69°12'43"E

STA.
713+00.00

(R)
+68.96
32.50'RT
2'R
+68.96
30.50'RT
+83.15
30.50'RT
2'R
+84.89
33.50'RT

8 IN. CONCRETE
MEDIAN STRIP

S28°21'14"E

+66.93
57.14'RT
+70.66
58.14'RT
2'R

NOTES:
-REMOVE EXISTING ISLAND
-RESURFACE WITH SP125C (PG64-22)
APPROXIMATE 2 IN. DEPTH
-CONST NEW 8 IN. CONCRETE MEDIAN STRIP

CONCRETE MEDIAN STRIP
(NON-MOUNTABLE)

NOTE:

ALL STATION AND OFFSETS
ARE SHOWN FROM US 60 EX. ℄

US 60 AND OAK RIDGE DR. ISLAND DETAILS SPECIAL SHEET
SHEET 4 OF 5

STATE OF MISSOURI
DONALD THOMAS SAIKO
NUMBER PE-28475
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED
2/26/2026

ROUTE	STATE
VAR.	MO
DISTRICT	SHEET NO.
SW	13

COUNTY
VARIOUS

JOB NO.
J7P3529

CONTRACT ID.

PROJECT NO.

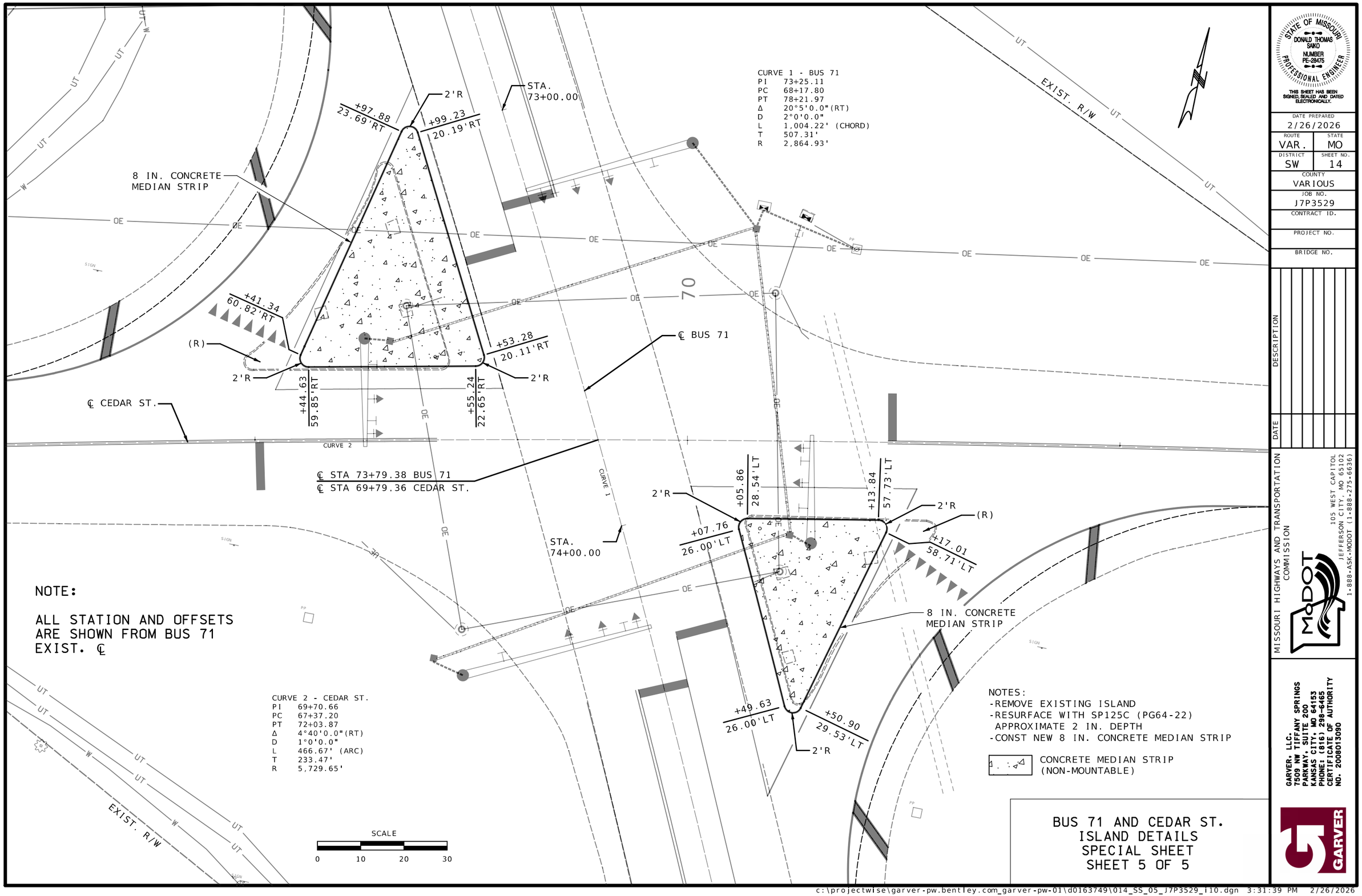
BRIDGE NO.

DESCRIPTION

DATE

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

GARVER, LLC.
7509 NW TIFFANY SPRINGS
PARKWAY, SUITE 200
KANSAS CITY, MO 64153
PHONE: (816) 298-6485
CERTIFICATE OF AUTHORITY
NO. 2008013090



BUS 71 AND CEDAR ST.
ISLAND DETAILS
SPECIAL SHEET
SHEET 5 OF 5

STATE OF MISSOURI
DONALD THOMAS SAIKO
NUMBER PE-28475
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED 2/26/2026

ROUTE	STATE
VAR.	MO
DISTRICT	SHEET NO.
SW	14

COUNTY: VARIOUS
JOB NO.: J7P3529
CONTRACT ID.:
PROJECT NO.:
BRIDGE NO.:

DESCRIPTION	DATE

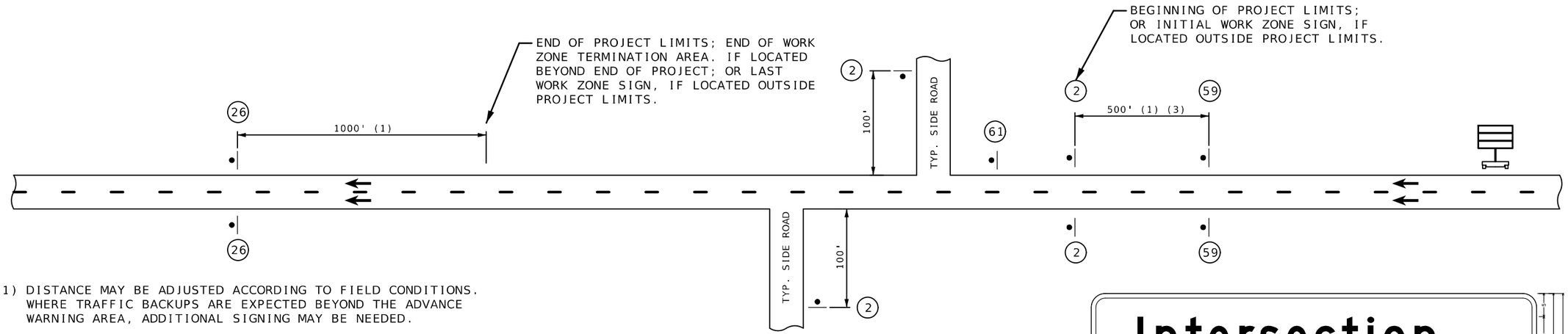
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

GARVER, LLC.
7509 NW TIFFANY SPRINGS PARKWAY, SUITE 200
KANSAS CITY, MO 64153
PHONE: (816) 298-6465
CERTIFICATE OF AUTHORITY NO. 2008013090

GENERAL NOTES:

1. ANY EXISTING SIGNS THAT CONFLICT WITH THE TRAFFIC CONTROL SIGNING SHALL BE COMPLETELY COVERED OR REMOVED.
2. TEMPORARY SIGNING SHOWN IS FOR WORK ON ONE SIDE OF THE ROAD. FOR WORK ON THE OTHER SIDE, REVERSE ORDER OF THE SIGNS AND CHANNELIZERS.
3. SIGNING SHOWN SHALL REMAIN IN PLACE UNTIL CONSTRUCTION IS COMPLETE.
4. ALTERNATE TRAFFIC CONTROL MAY BE USED AS NEEDED AT THE APPROVAL OF THE ENGINEER.
5. REFER TO STANDARD DRAWING 616.10, 619.10, AND 620.10 FOR ADDITIONAL DETAILS AND 903.03 FOR SIGN AND SIGN MOUNTING REQUIREMENTS.
6. SPEED LIMIT SIGNS INDICATING THE NORMAL SPEED LIMIT SHALL BE INSTALLED AT THE END OF THE WORK ZONE, PROVIDED NO FURTHER WORK ZONES WILL BE ENCOUNTERED WITHIN THE NEXT 1/2 MILE.
7. TEMPORARY SPEED LIMIT SIGNS SHALL BE COVERED OR REMOVED WHEN THE CONDITIONS REQUIRING REDUCED SPEEDS DO NOT EXIST.
8. NO DIRECT PAYMENT WILL BE MADE FOR THE RELOCATION OF CHANNELIZERS, CONSTRUCTION SIGNS, OR FLASHING ARROW PANEL.
9. ALL SIGNS SHALL BE PORTABLE MOUNT AND ARE TO BE MOVED AS WORK PROGRESSES, UNLESS OTHERWISE NOTED. ALL TRAFFIC CONTROL ITEMS SHALL BE REMOVED FROM THE ROADWAY DURING NON-WORKING HOURS.
10. THE CONTRACTOR SHALL BE RESPONSIBLE FOR IMPLEMENTING AND MAINTAINING PROPER TRAFFIC CONTROL SETUPS THROUGHOUT CONSTRUCTION AS DESCRIBED IN THESE PLANS OR AS APPROVED BY THE ENGINEER.
11. WHERE MINIMUM LANE WIDTHS CANNOT BE ACHIEVED ON THE SIDE STREETS, THE CONTRACTOR SHALL CLOSE HALF OF THE APPROACH AND POSITION A FLAGGER AT EACH END OF THE WORK AREA. LOCATION TO BE DETERMINED BY THE ENGINEER. ADVANCE FLAGGER SIGNING SHALL BE INSTALLED AS OUTLINED IN THE MUTCD.
12. THE CONTRACTOR SHALL MAINTAIN PUBLIC ACCESS TO ALL BUSINESSES AND STREETS. NO STREET OR ENTRANCE SHALL BE COMPLETELY BLOCKED.
13. SPACING & DISTANCES OF TRAFFIC CONTROL DEVICES ARE APPROXIMATE. THE EXACT LOCATIONS SHALL BE DETERMINED IN THE FIELD & APPROVED BY THE ENGINEER.
14. TRAFFIC CONTROL SHALL CONFORM TO THE LATEST EDITION OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD).
15. ADJUST ADVANCE WARNING SIGN SPACING TO AVOID SIGN PLACEMENT WITHIN THE LIMITS OF THE RAILROAD RIGHT OF WAY.

REVISED: 5/29/2025



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

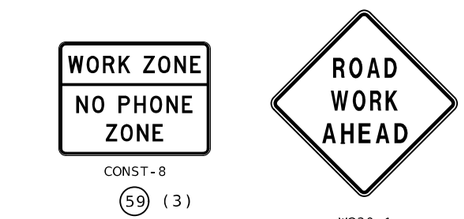
(2) CONST-5-96 SIGN IS PLACED IN A VISIBLE AREA WITHIN THE PROJECT LIMITS PROVIDED ITS PLACEMENT DOES NOT DISRUPT A SEQUENCE OF SIGNS. IF A VISIBLE LOCATION WITHIN THE PROJECT IS NOT AVAILABLE, THE SIGN MAY BE PLACED 500 FEET BEFORE SIGN CONST-7-72.

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

(4) CMS PLACEMENT SHALL BE APPROVED BY THE ENGINEER.

TYPICAL BEGINNING AND END OF PROJECT

(DIVIDED HIGHWAY)



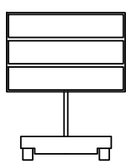
CONST-8

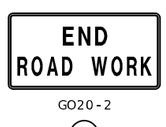
(59) (3)

WO20-1

(2)

(4)





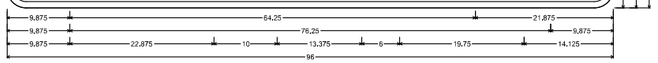
GO20-2

(26)

Intersection Improvements

MoDOT

Fall 2027

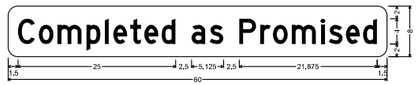


CONST-5 SH-FLAT SHEET:
3,000" Radius, 1,000" Border, White on Blue;
"Intersection", D; "Improvements", D; "Fall 2027", D;
Table of letter and object lefts

I	n	t	e	r	s	e	c	t	i	o	n	
9,875	14,000	20,250	25,250	31,875	36,125	42,125	48,125	54,000	59,625	63,000	69,625	
I	m	p	r	o	v	e	m	e	n	t	s	
9,875	14,000	24,000	30,625	35,000	41,000	47,625	54,250	63,750	70,375	76,750	81,625	
F	a	l	l	2	0	2	7					
9,875	42,750	47,000	52,375	55,250	62,125	67,375	72,625	77,875				

CONST-5-96

(61) (2)



CONST-5P-60 SHF-FLAT SHEET FLUORESCENT:
1,500" Radius, No border, Yellow;
"Completed as Promised" Black, D 65% spacing;
Table of letter and object lefts

C	o	m	p	l	e	t	e	d	a	s		
1,500	4,875	7,875	12,375	15,375	16,625	19,375	21,500	24,250	29,000	31,875		
P	r	o	m	i	s	e	d					
36,625	39,875	41,875	44,875	49,500	50,750	53,500	56,250					

NOT TO SCALE

TRAFFIC CONTROL SHEET 1 OF 12

STATE OF MISSOURI
DONALD THOMAS SAIKO
NUMBER PE-28475
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED: 2/13/2026

ROUTE	STATE
VAR.	MO
DISTRICT	SHEET NO.
SW	15

COUNTY: VARIOUS
JOB NO.: J7P3529
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)

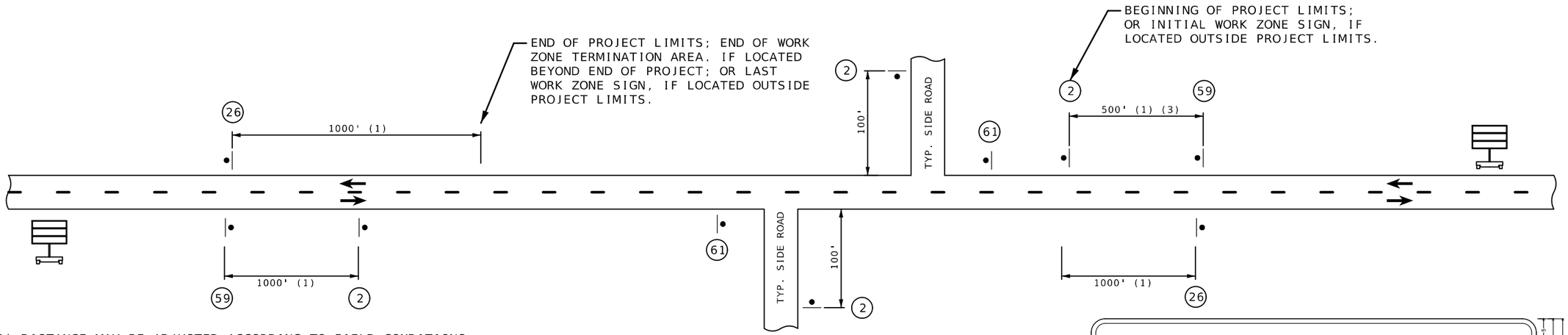
GARVER, LLC.
7509 NW TIFFANY SPRINGS
PARKWAY, SUITE 200
KANSAS CITY, MO 64153
PHONE: (816) 298-6465
CERTIFICATE OF AUTHORITY
NO. 2008013090

GARVER

GENERAL NOTES:

1. ANY EXISTING SIGNS THAT CONFLICT WITH THE TRAFFIC CONTROL SIGNING SHALL BE COMPLETELY COVERED OR REMOVED.
2. TEMPORARY SIGNING SHOWN IS FOR WORK ON ONE SIDE OF THE ROAD. FOR WORK ON THE OTHER SIDE, REVERSE ORDER OF THE SIGNS AND CHANNELIZERS.
3. SIGNING SHOWN SHALL REMAIN IN PLACE UNTIL CONSTRUCTION IS COMPLETE.
4. ALTERNATE TRAFFIC CONTROL MAY BE USED AS NEEDED AT THE APPROVAL OF THE ENGINEER.
5. REFER TO STANDARD DRAWING 616.10, 619.10, AND 620.10 FOR ADDITIONAL DETAILS AND 903.03 FOR SIGN AND SIGN MOUNTING REQUIREMENTS.
6. SPEED LIMIT SIGNS INDICATING THE NORMAL SPEED LIMIT SHALL BE INSTALLED AT THE END OF THE WORK ZONE, PROVIDED NO FURTHER WORK ZONES WILL BE ENCOUNTERED WITHIN THE NEXT 1/2 MILE.
7. TEMPORARY SPEED LIMIT SIGNS SHALL BE COVERED OR REMOVED WHEN THE CONDITIONS REQUIRING REDUCED SPEEDS DO NOT EXIST.
8. NO DIRECT PAYMENT WILL BE MADE FOR THE RELOCATION OF CHANNELIZERS, CONSTRUCTION SIGNS, OR FLASHING ARROW PANEL.
9. ALL SIGNS SHALL BE PORTABLE MOUNT AND ARE TO BE MOVED AS WORK PROGRESSES, UNLESS OTHERWISE NOTED. ALL TRAFFIC CONTROL ITEMS SHALL BE REMOVED FROM THE ROADWAY DURING NON-WORKING HOURS.
10. THE CONTRACTOR SHALL BE RESPONSIBLE FOR IMPLEMENTING AND MAINTAINING PROPER TRAFFIC CONTROL SETUPS THROUGHOUT CONSTRUCTION AS DESCRIBED IN THESE PLANS OR AS APPROVED BY THE ENGINEER.
11. WHERE MINIMUM LANE WIDTHS CANNOT BE ACHIEVED ON THE SIDE STREETS, THE CONTRACTOR SHALL CLOSE HALF OF THE APPROACH AND POSITION A FLAGGER AT EACH END OF THE WORK AREA. LOCATION TO BE DETERMINED BY THE ENGINEER. ADVANCE FLAGGER SIGNING SHALL BE INSTALLED AS OUTLINED IN THE MUTCD.
12. THE CONTRACTOR SHALL MAINTAIN PUBLIC ACCESS TO ALL BUSINESSES AND STREETS. NO STREET OR ENTRANCE SHALL BE COMPLETELY BLOCKED.
13. SPACING & DISTANCES OF TRAFFIC CONTROL DEVICES ARE APPROXIMATE. THE EXACT LOCATIONS SHALL BE DETERMINED IN THE FIELD & APPROVED BY THE ENGINEER.
14. TRAFFIC CONTROL SHALL CONFORM TO THE LATEST EDITION OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD).
15. ADJUST ADVANCE WARNING SIGN SPACING TO AVOID SIGN PLACEMENT WITHIN THE LIMITS OF THE RAILROAD RIGHT OF WAY.

REVISED: 5/29/2025



TYPICAL BEGINNING AND END OF PROJECT

(UNDIVIDED HIGHWAY)

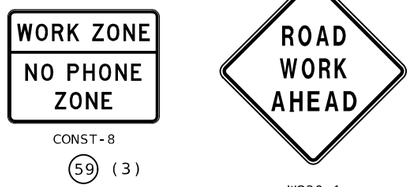
(1) DISTANCE MAY BE ADJUSTED ACCORDING TO FIELD CONDITIONS. WHERE TRAFFIC BACKUPS ARE EXPECTED BEYOND THE ADVANCE WARNING AREA, ADDITIONAL SIGNING MAY BE NEEDED.

(2) CONST-5-96 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.

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

(4) CMS PLACEMENT SHALL BE APPROVED BY THE ENGINEER.

* CONTRACTOR TO DETERMINE WHETHER SIGN 61 OR 61A SHOULD BE USED PER INTERSECTION.



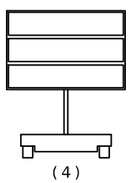
CONST-8

(59) (3)

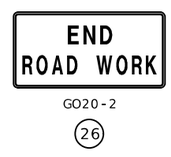


WO20-1

(2)



(4)



GO20-2

(26)

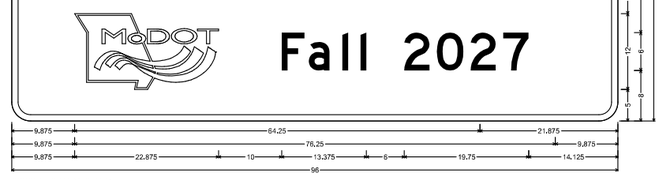


CONST-6 SHFLAT SHEET;
3.000" Radius, 1.000" Border, White on, Blue;
"Signal", D; "Improvements", D; "Fall 2027", D;
Table of letter and object lefts

S	f	q	h	a	l									
9,875	17,500	20,875	27,875	34,375	41,500									
I	m	p	r	o	v	e	m	e	e	n	t	s		
9,875	14,000	24,000	30,625	35,000	41,000	47,625	54,250	63,750	70,375	76,750	81,625			
▬	F	a	l	l	2	0	2	7						
9,875	42,750	47,000	52,375	55,250	62,125	67,375	72,625	77,875						

CONST-5-96

(61A) (2)*

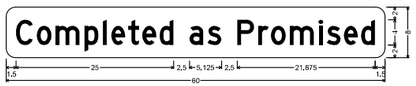


CONST-6 SHFLAT SHEET;
3.000" Radius, 1.000" Border, White on, Blue;
"Intersection", D; "Improvements", D; "Fall 2027", D;
Table of letter and object lefts

I	n	t	e	r	s	e	c	t	i	o	n			
9,875	14,000	20,250	25,250	31,875	36,125	42,125	48,125	54,000	59,625	63,000	69,625			
I	m	p	r	o	v	e	m	e	n	t	s			
9,875	14,000	24,000	30,625	35,000	41,000	47,625	54,250	63,750	70,375	76,750	81,625			
▬	F	a	l	l	2	0	2	7						
9,875	42,750	47,000	52,375	55,250	62,125	67,375	72,625	77,875						

CONST-5-96

(61) (2)*



CONST-5P-60 SHFFLAT SHEET FLUORESCENT;
1.500" Radius, No border, Yellow;
"Completed as Promised" Black, D 65% spacing;
Table of letter and object lefts

C	o	m	p	l	e	t	e	d	a	s		
1,500	4,875	7,875	12,375	15,375	16,625	19,375	21,500	24,250	26,000	31,875		
P	r	o	m	i	s	e	d					
36,625	39,875	41,875	44,875	49,500	50,750	53,500	56,250					

NOT TO SCALE

TRAFFIC CONTROL SHEET 2 OF 12

STATE OF MISSOURI
DONALD THOMAS SAKO
NUMBER PE-28475
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED 2/13/2026

ROUTE	STATE
VAR.	MO
DISTRICT	SHEET NO.
SW	16

COUNTY: VARIOUS

JOB NO.: J7P3529

CONTRACT ID.:

PROJECT NO.:

BRIDGE NO.:

DESCRIPTION | DATE

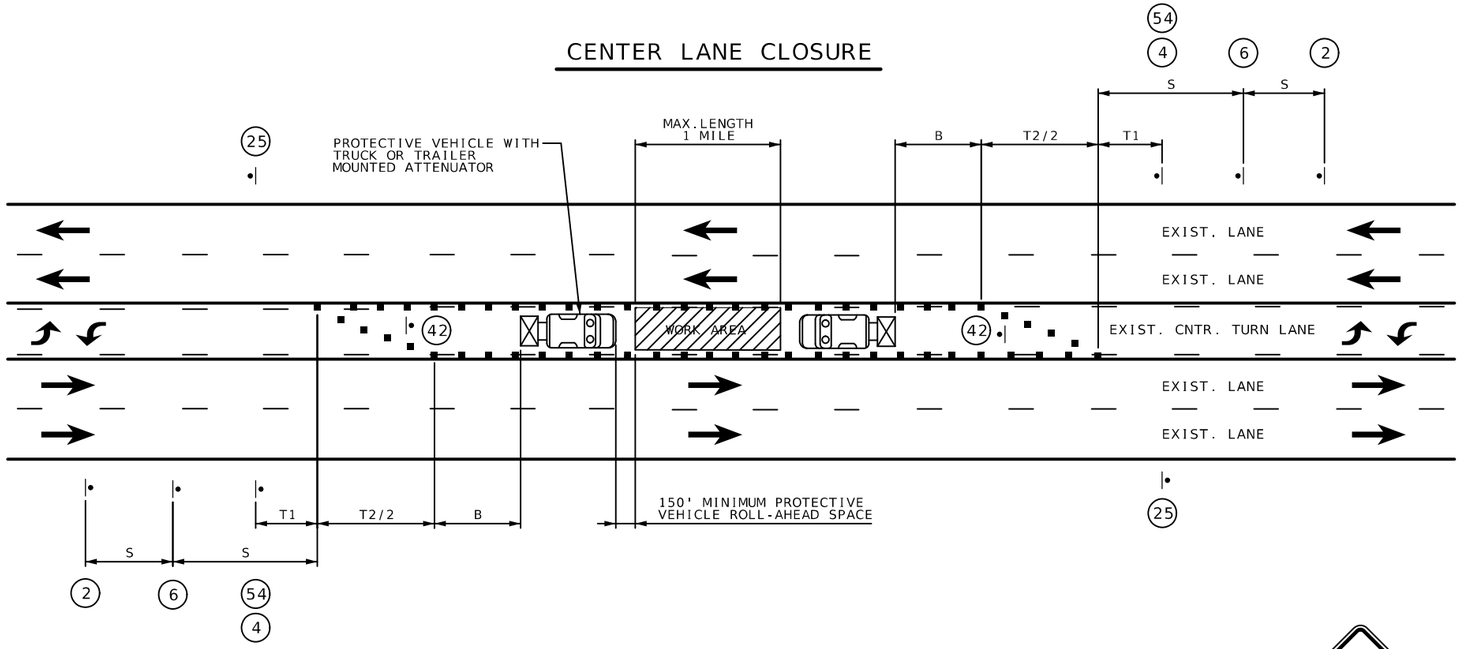
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

GARVER, LLC.
7509 NW TIFFANY SPRINGS PARKWAY, SUITE 200
KANSAS CITY, MO 64153
PHONE: (816) 298-6465
CERTIFICATE OF AUTHORITY NO. 2008013090

GARVER

REVISED: 8/27/2024

CENTER LANE CLOSURE



SPEED	SIGN SPACING (FT)	TAPER LENGTH (FT)		OPTIONAL	CHANNELIZER SPACING (FT)	
PERMANENT POSTED (MPH)	UNDIVIDED HIGHWAYS (S)	SHOULDER(2) (T1)	LANE(3) (T2)	BUFFER LENGTH (FT) (B)	TAPERS	BUFFER/ WORK AREAS
0-35	200[1]	70	245	250	35[4]	40[4]
40-45	350	150	540	360	40[4]	80[4]
50-55	500	185	660	495	50[5]	80[5]
60-70	1000	235	840	730	60[5]	120[5]

NOTES:

(1) FOR URBAN LOW SPEED, MINIMUM RECOMMENDED SPACING IN MUTCD IS 100 FT.
(2) SHOULDER TAPER LENGTH BASED ON 10 FT. (STANDARD SHOULDER WIDTH) OFFSET.
(3) LANE TAPER LENGTH BASED ON 12 FT. (STANDARD LANE WIDTH) OFFSET.
(4) SPACING REDUCED TO ½ AT INTERSECTIONS.
(5) SPACING MAY BE REDUCED TO ½ AT INTERSECTIONS.

SEE BEGIN/END OF PROJECT SIGNING SHEET FOR ADDITIONAL SIGNS.

IN TAPER SECTIONS, QUANTITY OF CHANNELIZERS IS DOUBLED WHEN COMPARED TO MAXIMUM CHANNELIZER SPACING IN CHART.

TEMPORARY PAVEMENT MARKING REQUIRED WITH LONG TERM CLOSURE, NO DIRECT PAY.

NO DIRECT PAYMENT WILL BE MADE FOR RELOCATION OF CHANNELIZERS, SIGNS, AND FLASHING ARROW PANEL.

FOR SHORT TERM OPERATIONS WHERE IT IS NOT FEASIBLE TO MODIFY PAVEMENT MARKING, DEVICE SPACING IS ONE-HALF SPACING SHOWN IN TABLE.

SPEED LIMIT SIGNS INDICATING NORMAL SPEED LIMIT SHALL BE INSTALLED AT END OF THE WORK ZONE, PROVIDED NO FURTHER WORK ZONES WILL BE ENCOUNTERED WITHIN THE NEXT 1/2 MILE.

ALL SIGNS, EXCEPT "RATE OUR WORK ZONE", "NO PHONE ZONE", AND "POINT OF PRESENCE", SHALL BE PORTABLE MOUNT AND ARE TO BE MOVED AS WORK PROGRESSES, UNLESS OTHERWISE NOTED. ALL TRAFFIC CONTROL ITEMS SHALL BE REMOVED FROM THE ROADWAY DURING NON-WORKING HOURS. SEE JOB SPECIAL PROVISIONS.

WORK WILL REQUIRE LANE CLOSURES UNLESS OTHERWISE APPROVED BY THE ENGINEER.

SEE STANDARD DRAWING 616.10 FOR ADDITIONAL DETAILS.

GO20-5aP
WORK ZONE

GO20-5aP
WORK ZONE

SPEED LIMIT 30
R2-1
54
4

SPEED LIMIT 35
R2-1
54
4

SPEED LIMIT 35
R2-1
25

SPEED LIMIT 45
R2-1
25

(NORMAL SPEED) (NORMAL SPEED)

ROAD WORK AHEAD
WO20-1
2

KEEP RIGHT
R4-7a
42

CENTER LANE CLOSED
WO20-6a
6

NOT TO SCALE

TRAFFIC CONTROL
SHEET 3 OF 12

STATE OF MISSOURI
DONALD THOMAS SAIKO
NUMBER PE-28475
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED
2/26/2026

ROUTE	STATE
VAR.	MO
DISTRICT	SHEET NO.
SW	17

COUNTY
VARIOUS

JOB NO.
J7P3529

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

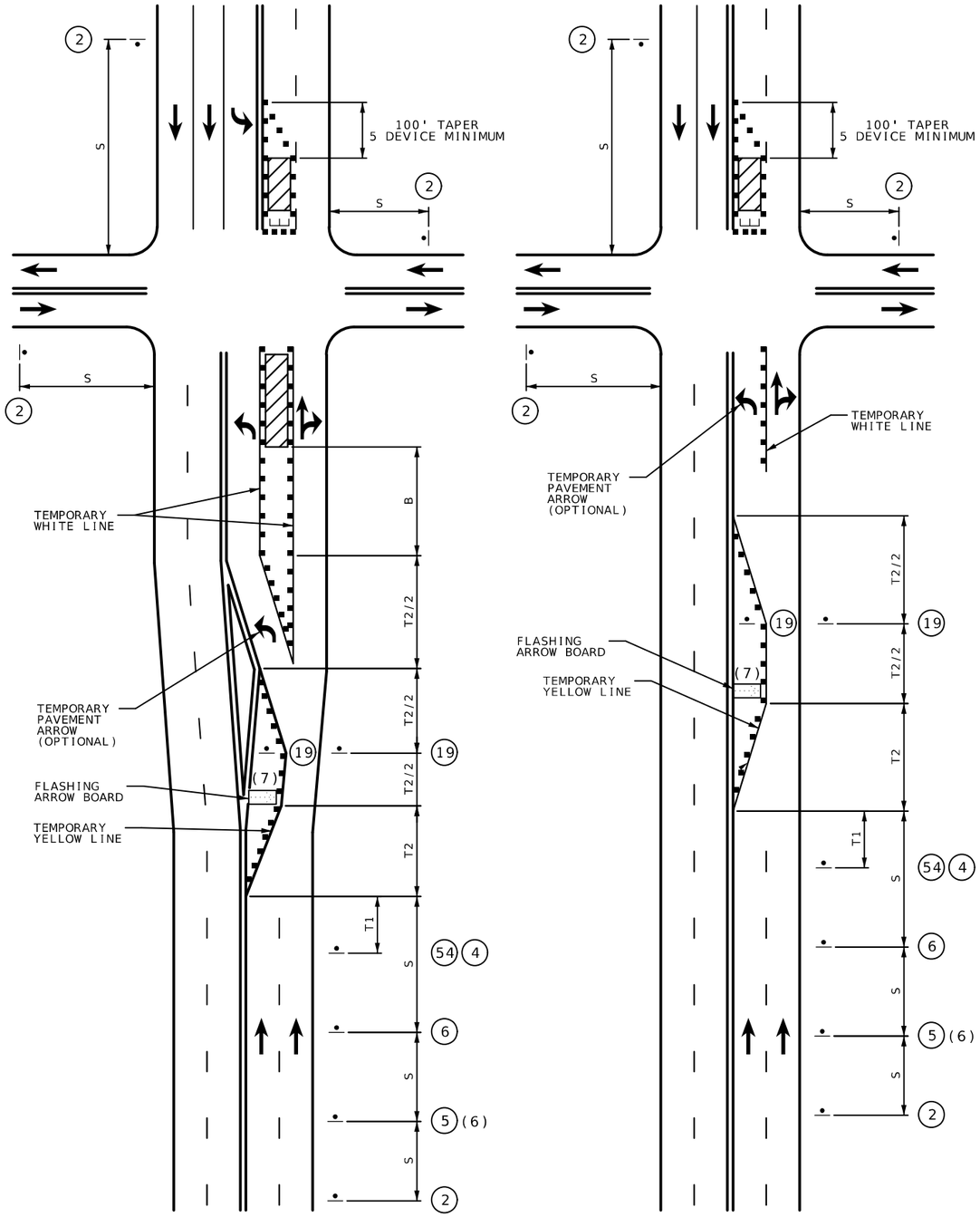
DESCRIPTION	DATE

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

GARVER, LLC.
7509 NW TIFFANY SPRINGS
PARKWAY, SUITE 200
KANSAS CITY, MO 64153
PHONE: (816) 298-6465
CERTIFICATE OF AUTHORITY
NO. 2008013090

c:\projectwise\garver-pw.bentley.com_garver-pw-01\d0163749\017_TC_03_J7P3529_f1_Center Lane Closure.dgn 3:16:55 PM 2/26/2026

REVISED: 8/27/2024



WORK ON NEAR OR FAR SIDE

WORK ON FAR SIDE ONLY

LEFT LANE CLOSURE AT INTERSECTION

SPEED	SIGN SPACING (FT)		TAPER LENGTH (FT)		OPTIONAL	CHANNELIZER SPACING (FT)	
PERMANENT POSTED (MPH)	UNDIVIDED HIGHWAYS (S)	DIVIDED HIGHWAYS (S)	SHOULDER(2) (T1)	LANE(3) (T2)	BUFFER LENGTH (FT) (B)	TAPERS	BUFFER/ WORK AREAS
0-35	200(1)	200(1)	70	245	250	35(4)	40(4)
40-45	350	500	150	540	360	40(4)	80(4)
50-55	500	1000	185	660	495	50(5)	80(5)
60-70	1000	SA - 1000 SB - 1500 SC - 2640	235	840	730	60(5)	120(5)

NOTES:

(1) FOR URBAN LOW SPEED, MINIMUM RECOMMENDED SPACING IN MUTCD IS 100 FT.
(2) SHOULDER TAPER LENGTH BASED ON 10 FT. (STANDARD SHOULDER WIDTH) OFFSET.
(3) LANE TAPER LENGTH BASED ON 12 FT. (STANDARD LANE WIDTH) OFFSET.
(4) SPACING REDUCED TO ½ AT INTERSECTIONS.
(5) SPACING MAY BE REDUCED TO ½ AT INTERSECTIONS.

FOR SIGNALIZED INTERSECTIONS, ADJUSTMENTS MAY NEED TO BE MADE TO SIGNAL PHASING, TIMING, INDICATIONS OR DETECTOR SETTINGS.

REMOVE AND/OR MODIFY EXISTING PAVEMENT MARKING AS NEEDED.

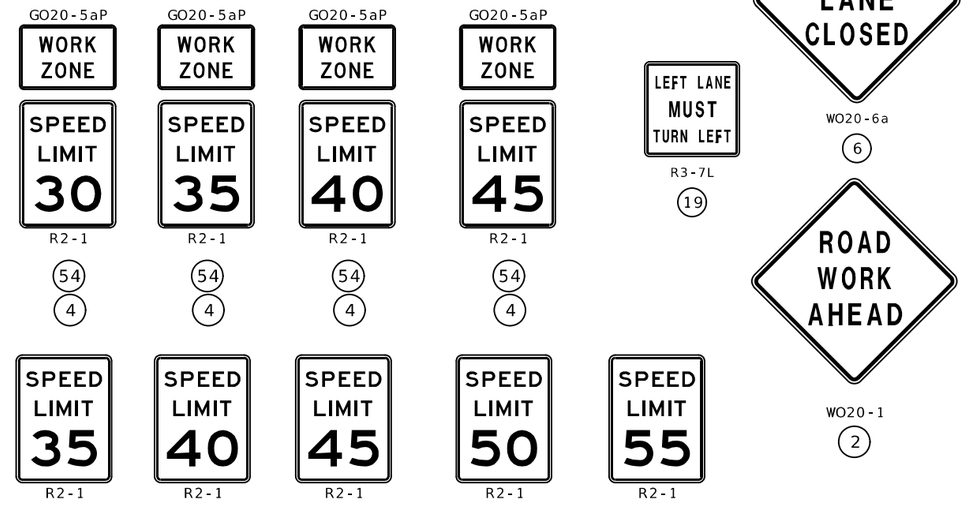
PAVEMENT MARKING AND BARRICADES OPTIONAL FOR SHORT TERM OPERATIONS.

TEMPORARY PAVEMENT MARKING REQUIRED WITH LONG TERM LANE CLOSURES.

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 SPACINGS ARE ONE-HALF OF THE SPACING.

(6) LEFT LANE CLOSED AHEAD SIGN MAY BE OMITTED IN LOW SPEED URBAN AREAS WHERE THERE IS NOT SUFFICIENT SPACE FOR THE FULL SIGN SERIES.

(7) FLASHING ARROW BOARD SHOULD BE LOCATED AT THE BEGINNING OF THE MERGING TAPER WHEN MEDIAN WIDTH ALLOWS THIS PLACEMENT.



NOT TO SCALE

TRAFFIC CONTROL SHEET 4 OF 12

STATE OF MISSOURI
DONALD THOMAS SAIKO
NUMBER PE-28475
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED 2/26/2026
ROUTE VAR. | STATE MO
DISTRICT SW | SHEET NO. 18
COUNTY VARIOUS
JOB NO. J7P3529
CONTRACT ID.
PROJECT NO.
BRIDGE NO.

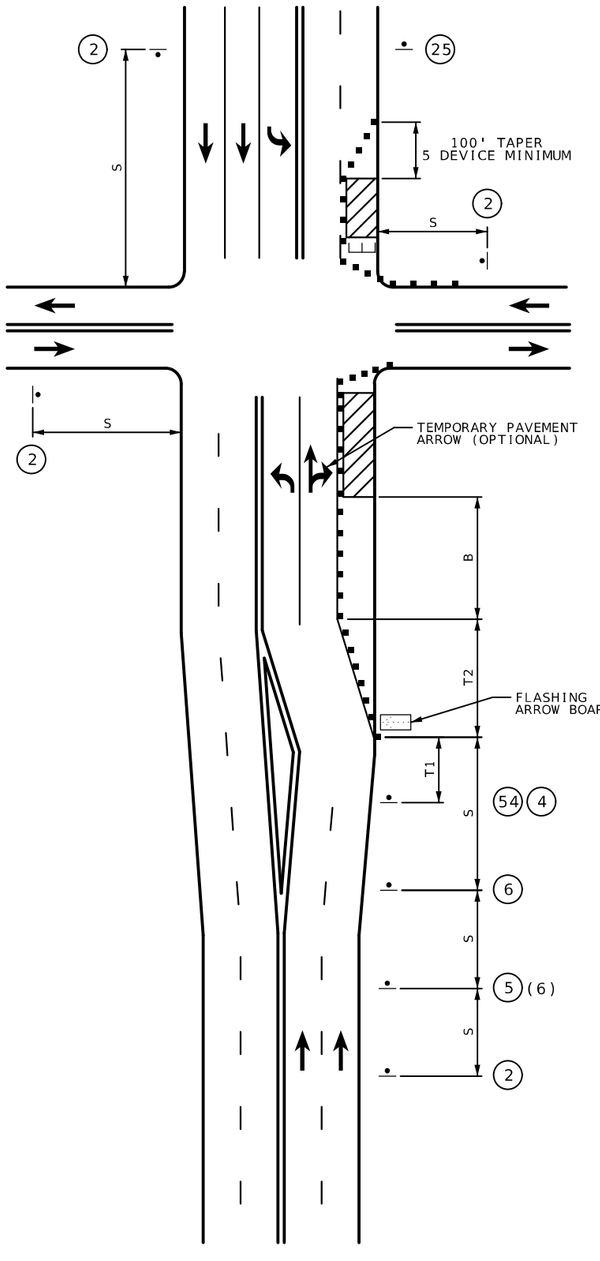
DESCRIPTION | DATE

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

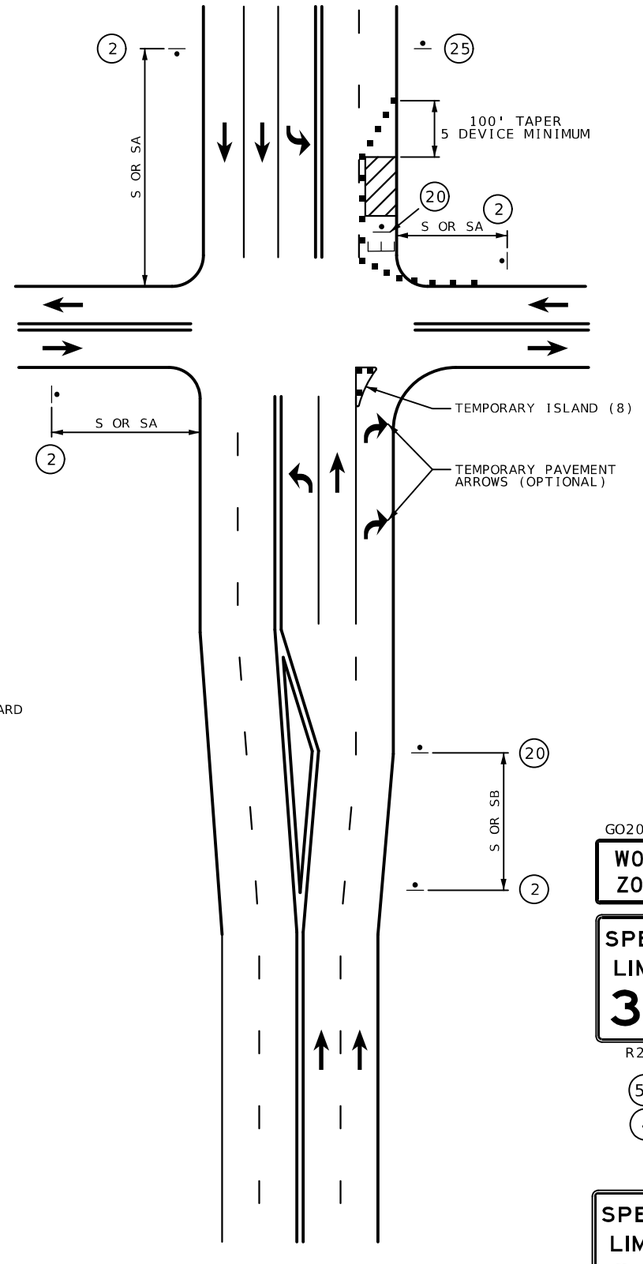
GARVER, LLC.
7509 NW TIFFANY SPRINGS
PARKWAY, SUITE 200
KANSAS CITY, MO 64153
PHONE: (816) 298-6465
CERTIFICATE OF AUTHORITY
NO. 2008013090

c:\projectwise\garver-pw.bentley.com_garver-pw-01\d0163749\018_TC_04_J7P3529_i1_Left Lane Closure At Intersection.dgn 3:17:44 PM 2/26/2026

REVISED: 8/27/2024



WORK ON NEAR OR FAR SIDE



WORK ON FAR SIDE ONLY (7)

RIGHT LANE CLOSURE AT INTERSECTION

SPEED	SIGN SPACING (FT)		TAPER LENGTH (FT)		OPTIONAL	CHANNELIZER SPACING (FT)	
PERMANENT POSTED (MPH)	UNDIVIDED HIGHWAYS (S)	DIVIDED HIGHWAYS (S)	SHOULDER(2) (T1)	LANE(3) (T2)	BUFFER LENGTH (FT) (B)	TAPERS	BUFFER/ WORK AREAS
0-35	200(1)	200(1)	70	245	250	35(4)	40(4)
40-45	350	500	150	540	360	40(4)	80(4)
50-55	500	1000	185	660	495	50(5)	80(5)
60-70	1000	SA - 1000 SB - 1500 SC - 2640	235	840	730	60(5)	120(5)

NOTES:

(1) FOR URBAN LOW SPEED, MINIMUM RECOMMENDED SPACING IN MUTCD IS 100 FT.
(2) SHOULDER TAPER LENGTH BASED ON 10 FT. (STANDARD SHOULDER WIDTH) OFFSET.
(3) LANE TAPER LENGTH BASED ON 12 FT. (STANDARD LANE WIDTH) OFFSET.
(4) SPACING REDUCED TO ½ AT INTERSECTIONS.
(5) SPACING MAY BE REDUCED TO ½ AT INTERSECTIONS.

FOR SIGNALIZED INTERSECTIONS, ADJUSTMENTS MAY NEED TO BE MADE TO SIGNAL PHASING, TIMING, INDICATIONS OR DETECTOR SETTINGS.

REMOVE AND/OR MODIFY EXISTING PAVEMENT MARKING AS NEEDED.

PAVEMENT MARKING AND BARRICADES OPTIONAL FOR SHORT TERM OPERATIONS.

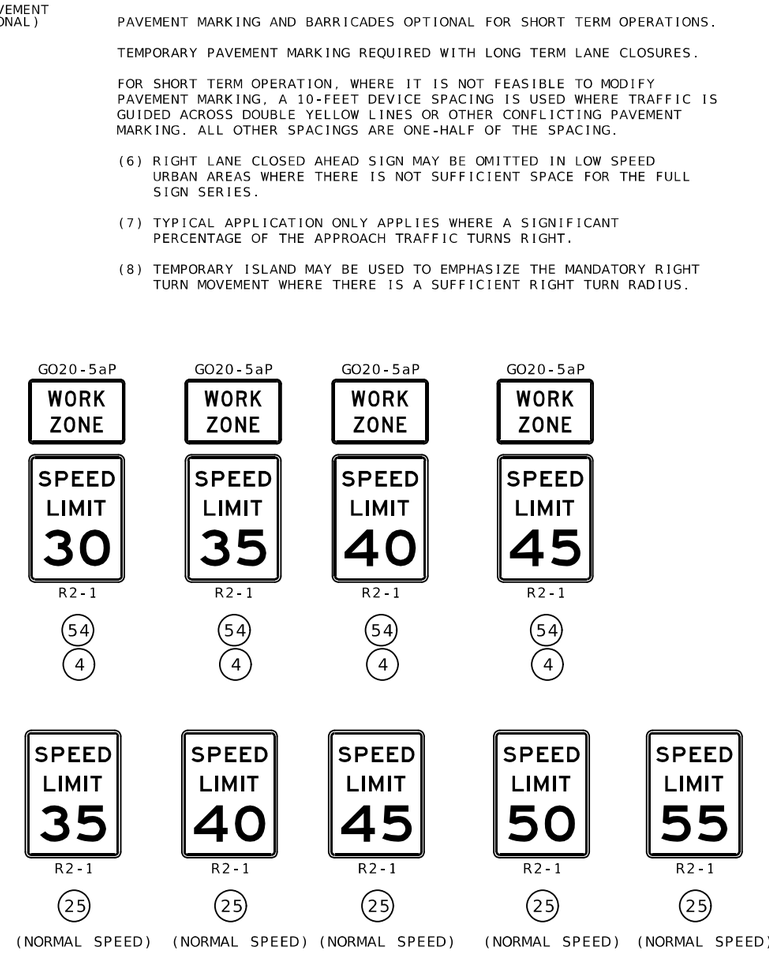
TEMPORARY PAVEMENT MARKING REQUIRED WITH LONG TERM LANE CLOSURES.

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 SPACINGS ARE ONE-HALF OF THE SPACING.

(6) RIGHT LANE CLOSED AHEAD SIGN MAY BE OMITTED IN LOW SPEED URBAN AREAS WHERE THERE IS NOT SUFFICIENT SPACE FOR THE FULL SIGN SERIES.

(7) TYPICAL APPLICATION ONLY APPLIES WHERE A SIGNIFICANT PERCENTAGE OF THE APPROACH TRAFFIC TURNS RIGHT.

(8) TEMPORARY ISLAND MAY BE USED TO EMPHASIZE THE MANDATORY RIGHT TURN MOVEMENT WHERE THERE IS A SUFFICIENT RIGHT TURN RADIUS.





NOT TO SCALE

TRAFFIC CONTROL SHEET 5 OF 12

STATE OF MISSOURI
DONALD THOMAS SAKO
NUMBER PE-28475
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED 2/26/2026
ROUTE VAR. | STATE MO
DISTRICT SW | SHEET NO. 19
COUNTY VARIOUS
JOB NO. J7P3529
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)

GARVER, LLC.
7509 NW TIFFANY SPRINGS
PARKWAY, SUITE 200
KANSAS CITY, MO 64153
PHONE: (816) 298-6465
CERTIFICATE OF AUTHORITY
NO. 2008013090

REVISED: 12/30/2024

GO20-5aP
WORK ZONE
SPEED LIMIT 30
R2-1
54 4

GO20-5aP
WORK ZONE
SPEED LIMIT 35
R2-1
54 4

GO20-5aP
WORK ZONE
SPEED LIMIT 40
R2-1
54 4

GO20-5aP
WORK ZONE
SPEED LIMIT 45
R2-1
54 4

RIGHT SHOULDER CLOSED
WO21-5aR
21A

SPEED LIMIT 35
R2-1
25
(NORMAL SPEED)

SPEED LIMIT 40
R2-1
25
(NORMAL SPEED)

SPEED LIMIT 45
R2-1
25
(NORMAL SPEED)

SPEED LIMIT 50
R2-1
25
(NORMAL SPEED)

SPEED LIMIT 55
R2-1
25
(NORMAL SPEED)

SPEED	SIGN SPACING (FT)	SIGN SPACING (FT)	TAPER LENGTH (FT)		OPTIONAL	CHANNELIZER SPACING (FT)	
PERMANENT POSTED (MPH)	DIVIDED HIGHWAYS (S)	UNDIVIDED HIGHWAYS (S)	SHOULDER(2) (T1)	LANE(3) (T2)	BUFFER LENGTH (FT) (B)	TAPERS	BUFFER/ WORK AREAS
0-35	200[1]	200[1]	70	245	250	35[4]	40[4]
40-45	500	350	150	540	360	40[4]	80[4]
50-55	1000	500	185	660	495	50[5]	80[5]
60-70	SA - 1000 SB - 1500 SC - 2640	1000	235	840	730	60[5]	120[5]

NOTES:

(1) FOR URBAN LOW SPEED, MINIMUM RECOMMENDED IN MUTCD IS 100 FT.
(2) SHOULDER TAPER LENGTH BASED ON 10 FT. (STANDARD SHOULDER WIDTH) OFFSET.
(3) LANE TAPER LENGTH BASED ON 12 FT. (STANDARD LANE WIDTH) OFFSET.
(4) SPACING REDUCED TO 1/2 AT INTERSECTIONS.
(5) SPACING MAY BE REDUCED TO 1/2 AT INTERSECTIONS.
(6) NEXT XX MILES SIGN NOT REQUIRED FOR NARROW LANE SECTIONS LESS THAN ONE MILE.

ROAD WORK AHEAD
WO20-1
2

RIGHT SHOULDER CLOSED AHEAD
WO21-5bR
21B

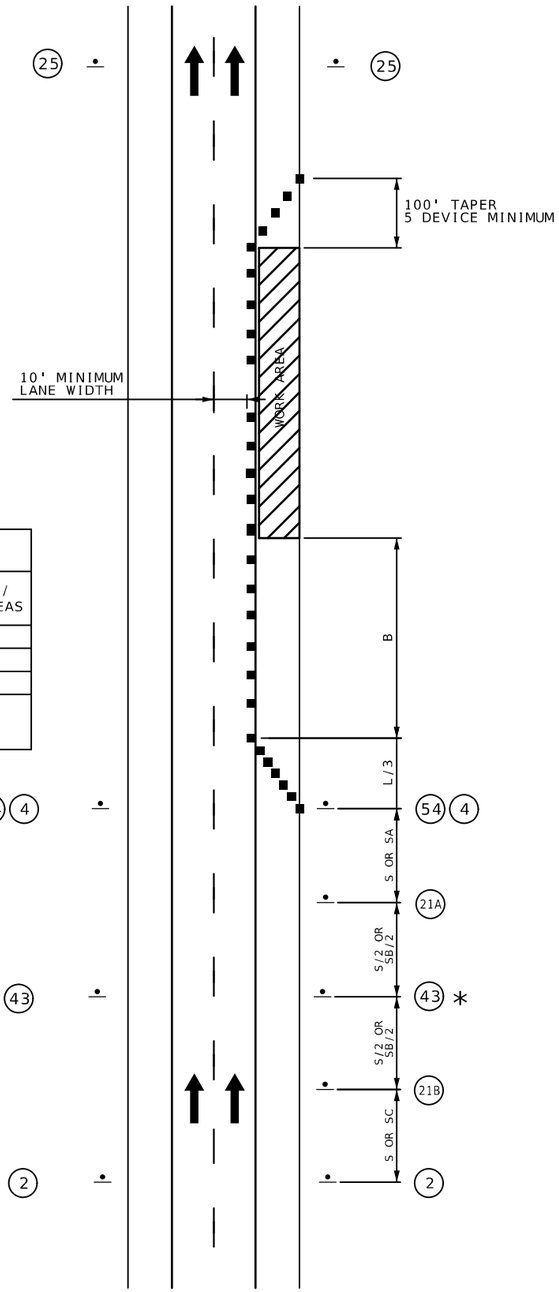
ROAD NARROWS
43
WO5-1

BRIDGE OR RAMP

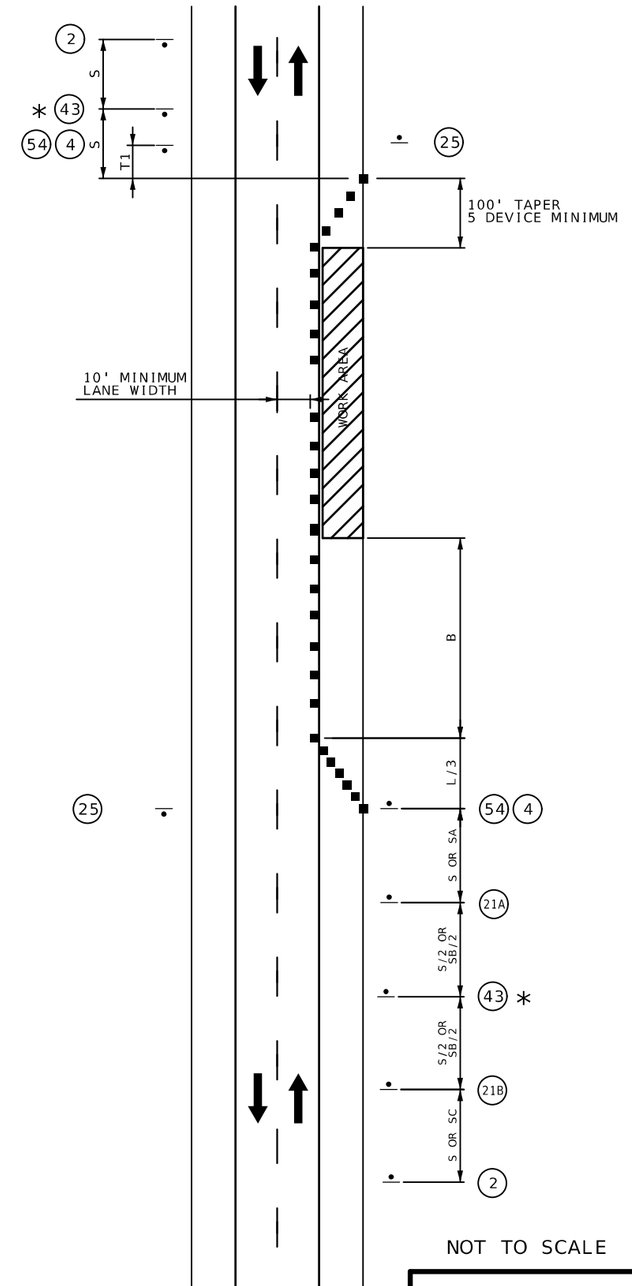
NEXT XX MILES (6)
WO7-3a
44A *

*OMIT SIGN 43 FOR NO TRAVELWAY ENCROACHMENT.

SHOULDER WORK WITH MINOR TRAVELWAY ENCROACHMENT OR NO ENCROACHMENT (DIVIDED HIGHWAY)



SHOULDER WORK WITH MINOR TRAVELWAY ENCROACHMENT OR NO ENCROACHMENT (UNDIVIDED HIGHWAY)



NOT TO SCALE

TRAFFIC CONTROL
SHEET 6 OF 12

STATE OF MISSOURI
DONALD THOMAS SAIKO
NUMBER PE-28475
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED 2/26/2026
ROUTE VAR. | STATE MO
DISTRICT SW | SHEET NO. 20
COUNTY VARIOUS
JOB NO. J7P3529
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)

GARVER, LLC.
7509 NW TIFFANY SPRINGS
PARKWAY, SUITE 200
KANSAS CITY, MO 64153
PHONE: (816) 298-6465
CERTIFICATE OF AUTHORITY
NO. 2008013090

REVISED: 7/23/2025

SPEED	SIGN SPACING (FT)	SIGN SPACING (FT)	TAPER LENGTH (FT)		OPTIONAL	CHANNELIZER SPACING (FT)	
PERMANENT POSTED (MPH)	UNDIVIDED HIGHWAYS (S)	DIVIDED HIGHWAYS (S)	SHOULDER(2) (T1)	LANE(3) (T2)	BUFFER LENGTH (FT) (B)	TAPERS	BUFFER/ WORK AREAS
0-35	200(1)	200(1)	70	245	250	35(4)	40(4)
40-45	350	500	150	540	360	40(4)	80(4)
50-55	500	1000	185	660	495	50(5)	80(5)
60-70	1000	SA - 1000 SB - 1500 SC - 2640	235	840	730	60(5)	120(5)

NOTES:

(1) FOR URBAN LOW SPEED, MINIMUM RECOMMENDED SPACING IN MUTCD IS 100 FT.
(1) SHOULDER TAPER LENGTH BASED ON 10 FT. (STANDARD SHOULDER WIDTH) OFFSET.
(2) LANE TAPER LENGTH BASED ON 12 FT. (STANDARD LANE WIDTH) OFFSET.
(4) SPACING REDUCED TO ½ AT INTERSECTIONS.
(5) SPACING MAY BE REDUCED TO ½ AT INTERSECTIONS.

TEMPORARY PAVEMENT MARKING REQUIRED WITH LONG TERM CLOSURES.

REMOVE AND/OR MODIFY ANY EXISTING PAVEMENT MARKING AS NEEDED.

THIS INFORMATION ALSO SHALL BE USED WHEN WORK IS BEING PERFORMED IN THE LANE ADJACENT TO THE MEDIAN ON A DIVIDED HIGHWAY. IN THIS CASE, THE LEFT LANE CLOSED SIGNS AND THE CORRESPONDING MERGE OR LANE ENDS SIGNS SHALL BE SUBSTITUTED.

WHEN A SIDE ROAD INTERSECTS THE HIGHWAY WITHIN THE TTC ZONE, ADDITIONAL TTC DEVICES SHALL BE PLACED AS NEEDED.

AN ARROW BOARD SHALL BE USED WHEN A FREEWAY LANE IS CLOSED.WHEN MORE THAN ONE FREEWAY LANE IS CLOSED, A SEPARATE ARROW BOARD SHALL BE USED FOR EACH CLOSED LANE.



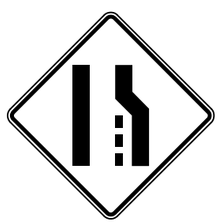
WO20-1
2



WO20-5
5

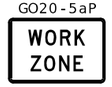


WO20-6a
6



WO4-2R
6B

GO20-5aP



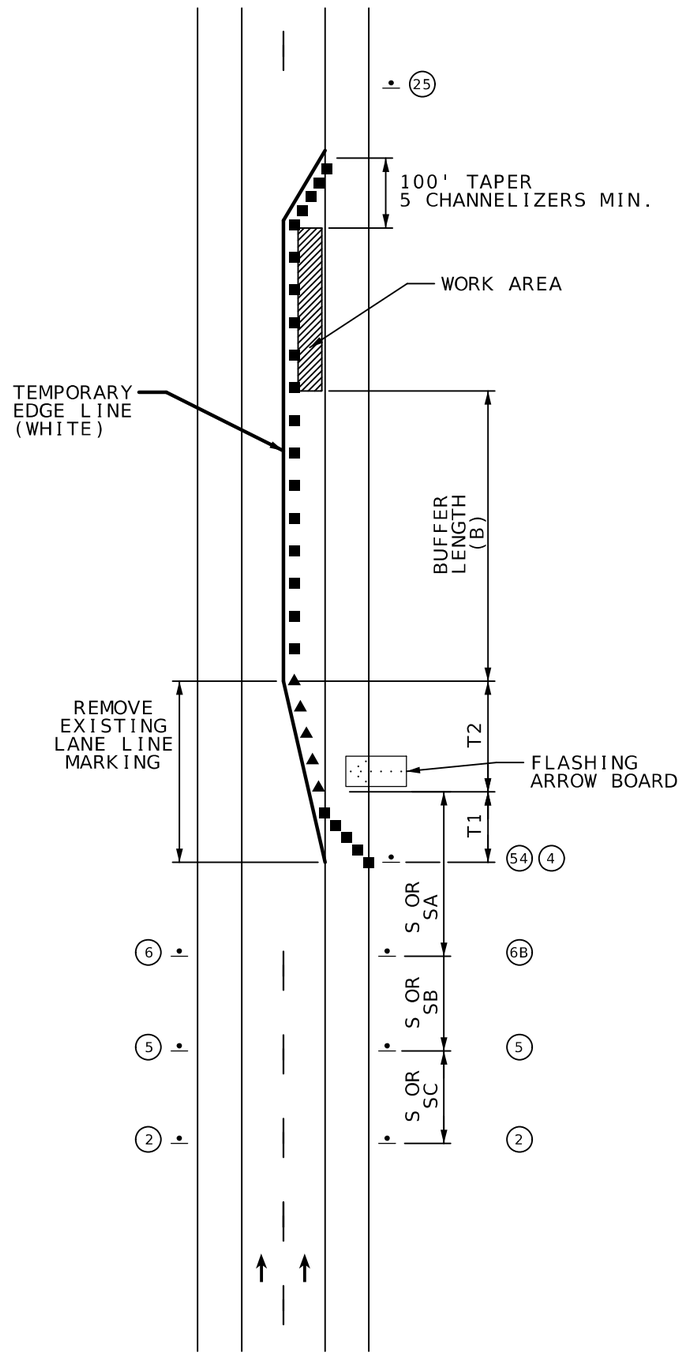


R2-1
54
4



R2-1
25
(NORMAL SPEED)

STATIONARY LANE CLOSURE ON MULTI-LANE ROADWAY



NOT TO SCALE

TRAFFIC CONTROL
SHEET 7 OF 12

STATE OF MISSOURI
DONALD THOMAS SAIKO
NUMBER PE-28475
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED
2/26/2026

ROUTE	STATE
VAR.	MO
DISTRICT	SHEET NO.
SW	21

COUNTY
VARIOUS

JOB NO.
J7P3529

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)

GARVER, LLC.
7509 NW TIFFANY SPRINGS PARKWAY, SUITE 200
KANSAS CITY, MO 64153
PHONE: (816) 298-6465
CERTIFICATE OF AUTHORITY NO. 2008013090

GARVER

REVISED: 4/26/2023



WO20-1

(2)

BRIDGE
OR
RAMP



WO20-5

(6)

CENTER LANE
OR
LEFT LANE



R4-7a

(42)



GO20-5aP

(54)



GO20-5aP

(54)



R2-1

(4)



R2-1

(4)



R2-1

(25)

(NORMAL SPEED)

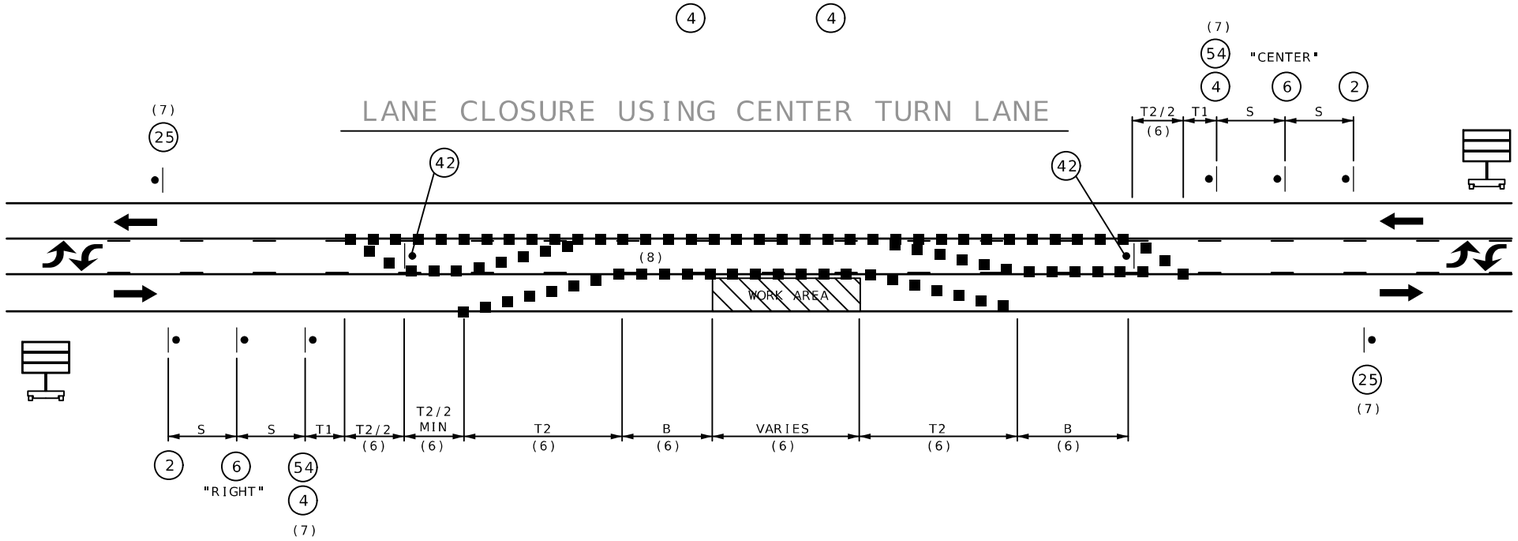


R2-1

(25)

(NORMAL SPEED)

LANE CLOSURE USING CENTER TURN LANE



NOTE:

ALL LOCATIONS, DISTANCES, AND SPACING OF TRAFFIC CONTROL DEVICES ARE APPROXIMATE AND MAY BE ADJUSTED TO MEET FIELD CONDITIONS AS DIRECTED BY THE ENGINEER.

ANY EXISTING SIGNING OR PAVEMENT MARKING THAT CONFLICTS WITH THE TRAFFIC CONTROL SHALL BE COMPLETELY COVERED OR REMOVED AT NO DIRECT PAY.

TEMPORARY PAVEMENT MARKING REQUIRED WITH LONG TERM CLOSURES. NO DIRECT PAY.

FOR SHORT TERM OPERATIONS WHERE IT IS NOT FEASIBLE TO MODIFY PAVEMENT MARKING, CHANNELIZER SPACINGS SHALL BE ONE-HALF ON THE SPACINGS SHOWN IN THE TABLE.

NO DIRECT PAYMENT WILL BE MADE FOR RELOCATION OF CHANNELIZERS, CONSTRUCTION SIGNS OR FLASHING ARROW PANEL.

REDUCED SPEED LIMIT SIGNING SHALL BE REMOVED, COVERED OR TURNED FROM TRAFFIC WHEN CONDITIONS REQUIRING THE REDUCED SPEED NO LONGER EXIST,

SPEED LIMIT SIGNS INDICATING THE NORMAL SPEED LIMIT SHALL BE INSTALLED AT THE END OF THE WORK ZONE, PROVIDING NO FURTHER WORK ZONES WILL BE ENCOUNTERED WITHIN THE NEXT ½ MILE.

SEE STANDARD PLAN 616.10 FOR ADDITIONAL DETAILS,

(6) SEE TABLE FOR CHANNELIZER SPACING A BUFFER LENGTHS.

(7) OMIT SPEED LIMIT SIGNS IN AREAS WHERE THE POSTED SPEED LIMIT IS LESS THAN 45 MPH.

(8) 10' MINIMUM

SPEED	SIGN SPACING (FT)	SIGN SPACING (FT)	TAPER LENGTH (FT)		OPTIONAL	CHANNELIZER SPACING (FT)	
PERMANENT POSTED (MPH)	UNDIVIDED HIGHWAYS (S)	DIVIDED HIGHWAYS (S)	SHOULDER(2) (T1)	LANE(3) (T2)	BUFFER LENGTH (FT) (B)	TAPERS	BUFFER/ WORK AREAS
0-35	200[1]	200[1]	70	245	250	35[4]	40[4]
40-45	350	500	150	540	360	40[4]	80[4]
50-55	500	1000	185	660	495	50[5]	80[5]
60-70	1000	SA - 1000 SB - 1500 SC - 2640	235	840	730	60[5]	120[5]

NOTES:

(1) FOR URBAN LOW SPEED, MINIMUM RECOMMENDED SPACING IN MUTCD IS 100 FT.
(1) SHOULDER TAPER LENGTH BASED ON 10 FT. (STANDARD SHOULDER WIDTH) OFFSET.
(2) LANE TAPER LENGTH BASED ON 12 FT. (STANDARD LANE WIDTH) OFFSET.
(4) SPACING REDUCED TO ½ AT INTERSECTIONS.
(5) SPACING MAY BE REDUCED TO ½ AT INTERSECTIONS.

NOT TO SCALE

TRAFFIC CONTROL
SHEET 8 OF 12

STATE OF MISSOURI
DONALD THOMAS SAIKO
NUMBER PE-28475
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED
2/26/2026

ROUTE	STATE
VAR.	MO
DISTRICT	SHEET NO.
SW	22

COUNTY
VARIOUS

JOB NO.
J7P3529

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)

GARVER, LLC.
7509 NW TIFFANY SPRINGS
PARKWAY, SUITE 200
KANSAS CITY, MO 64153
PHONE: (816) 298-6465
CERTIFICATE OF AUTHORITY
NO. 2008013090

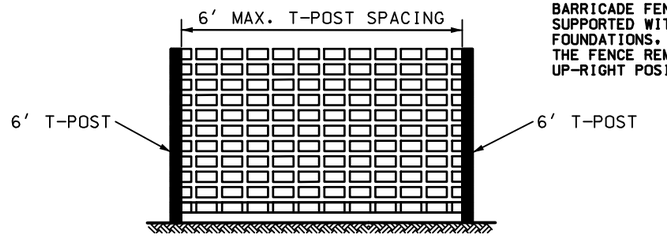
c:\projectwise\garver-pw.bentley.com_garver-pw-01\d0163749\022_TC_08_J7P3529_i1_Lane Closure Using Center Lane.dgn 3:22:06 PM 2/26/2026

REVISED: 11-19-2018

NOTES:

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

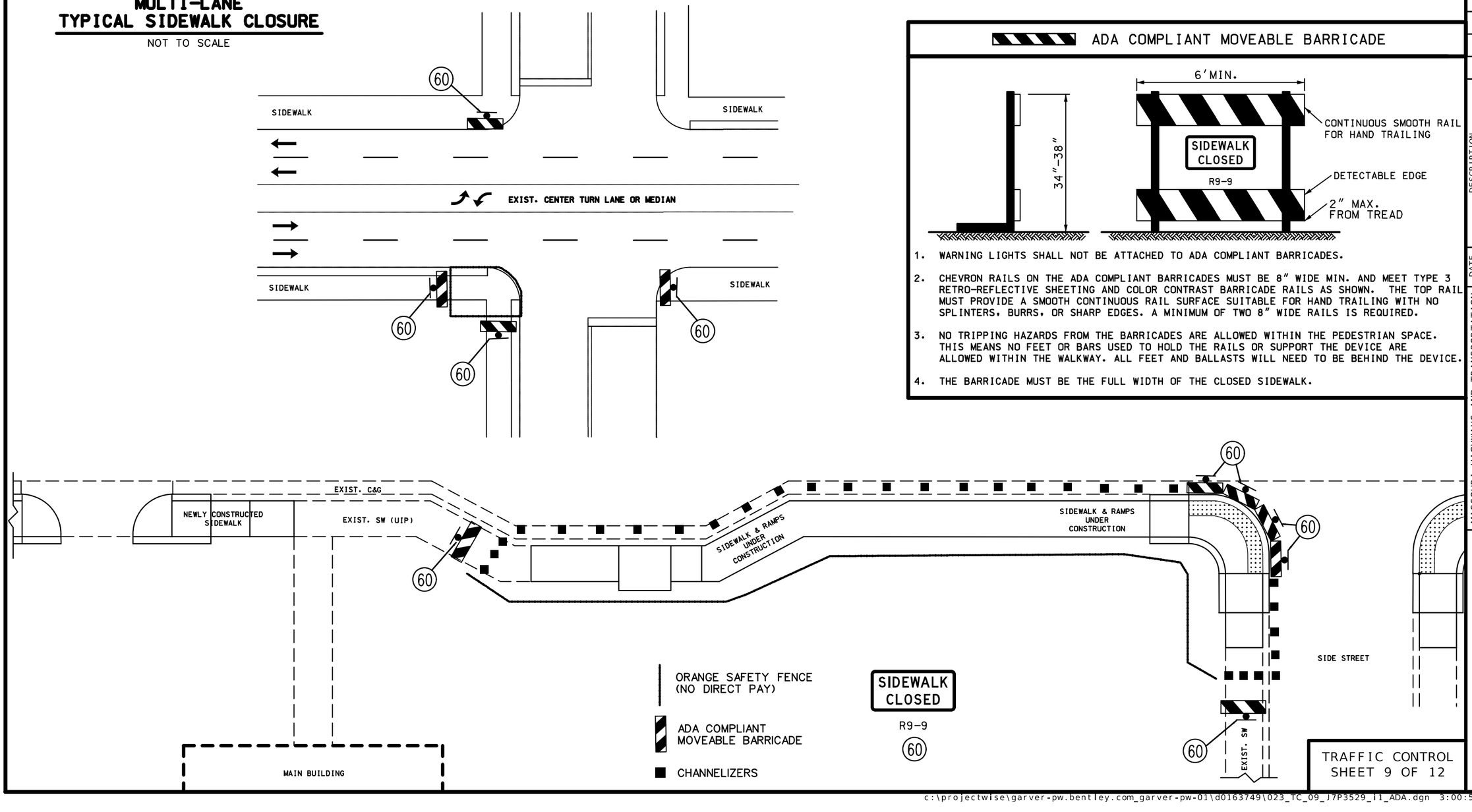
ORANGE PLASTIC SAFETY FENCE



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

MULTI-LANE TYPICAL SIDEWALK CLOSURE

NOT TO SCALE



ADA COMPLIANT MOVEABLE BARRICADE

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

STATE OF MISSOURI
DONALD THOMAS SAKO
NUMBER PE-28475
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED: 2/13/2026
ROUTE: VAR. | STATE: MO
DISTRICT: SW | SHEET NO.: 23
COUNTY: VARIOUS
JOB NO.: J7P3529
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)

GARVER, LLC.
7509 NW TIFFANY SPRINGS PARKWAY, SUITE 200
KANSAS CITY, MO 64153
PHONE: (816) 298-6465
CERTIFICATE OF AUTHORITY NO. 2008013090

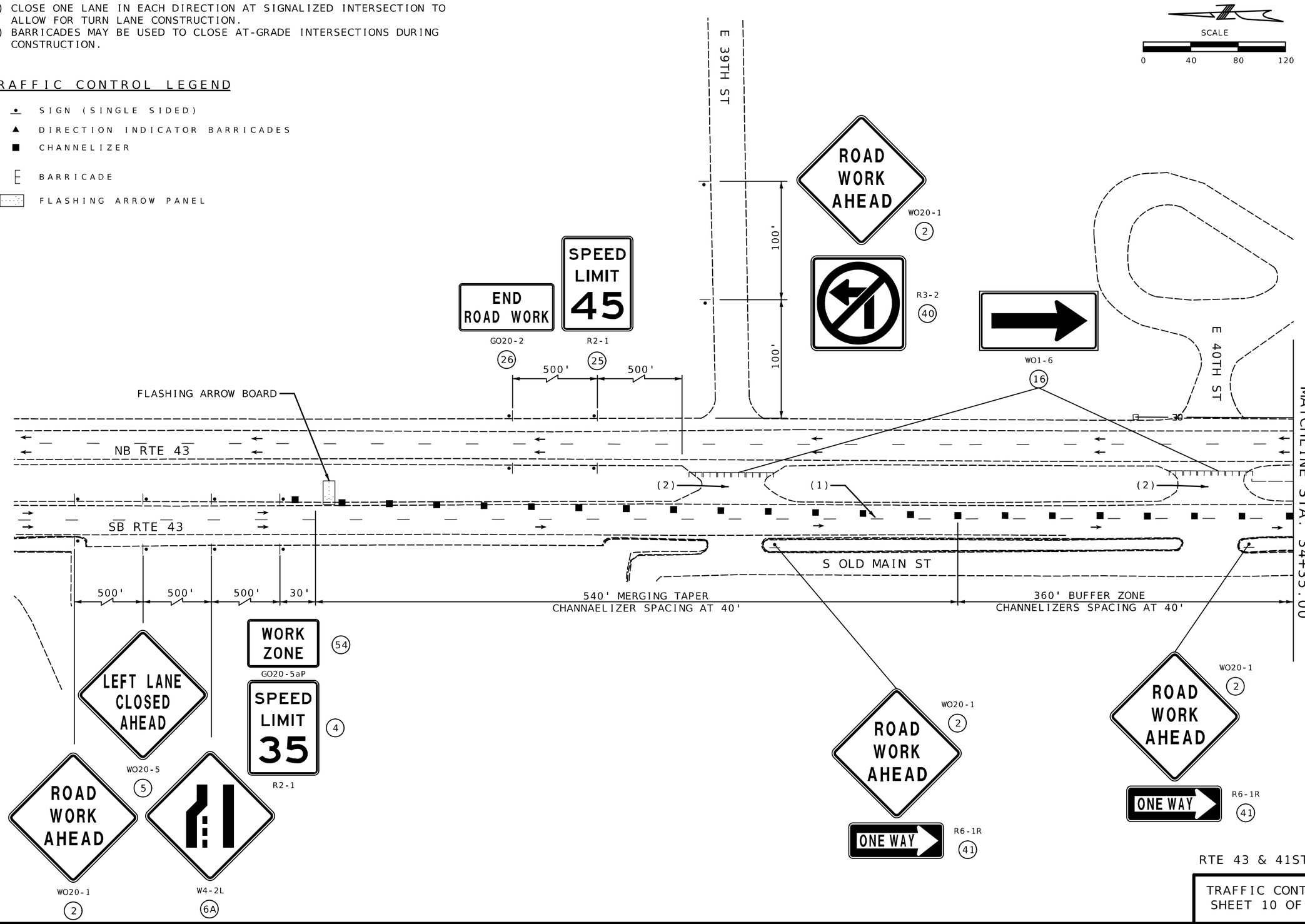
TRAFFIC CONTROL SHEET 9 OF 12

TRAFFIC CONTROL NOTES:

(1) CLOSE ONE LANE IN EACH DIRECTION AT SIGNALIZED INTERSECTION TO ALLOW FOR TURN LANE CONSTRUCTION.
(2) BARRICADES MAY BE USED TO CLOSE AT-GRADE INTERSECTIONS DURING CONSTRUCTION.

TRAFFIC CONTROL LEGEND

- SIGN (SINGLE SIDED)
- DIRECTION INDICATOR BARRICADES
- CHANNELIZER
- BARRICADE
- FLASHING ARROW PANEL



RTE 43 & 41ST ST

TRAFFIC CONTROL
SHEET 10 OF 12

STATE OF MISSOURI
DONALD THOMAS SAIKO
NUMBER PE-28475
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED 2/26/2026
ROUTE VAR. | STATE MO
DISTRICT SW | SHEET NO. 24
COUNTY VARIOUS
JOB NO. J7P3529
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)

GARVER, LLC.
7509 NW TIFFANY SPRINGS
PARKWAY, SUITE 200
KANSAS CITY, MO 64153
PHONE: (816) 298-6465
CERTIFICATE OF AUTHORITY
NO. 2008013090

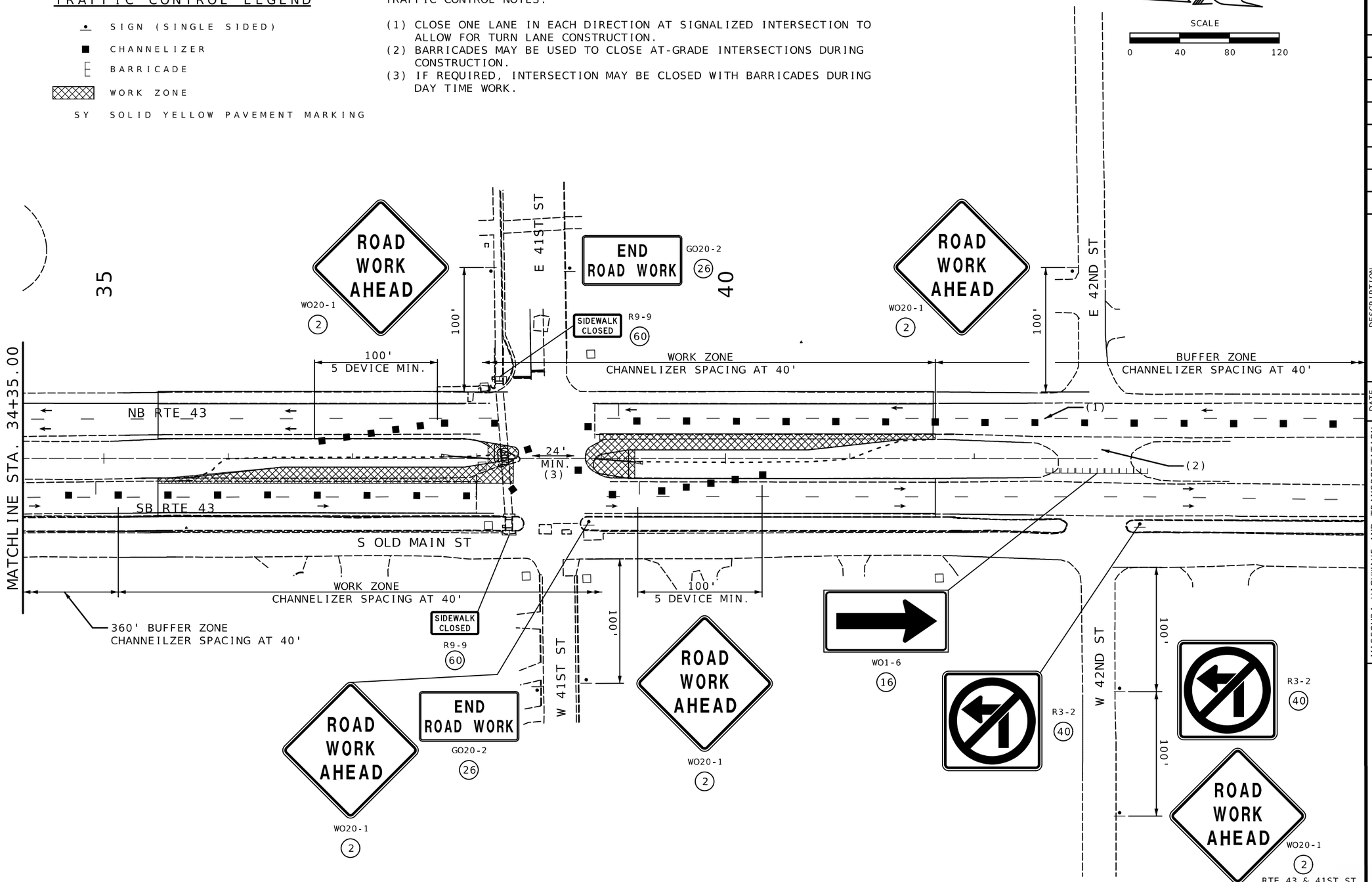
TRAFFIC CONTROL LEGEND

- SIGN (SINGLE SIDED)
- CHANNELIZER
- BARRICADE
- WORK ZONE
- SY SOLID YELLOW PAVEMENT MARKING

TRAFFIC CONTROL NOTES:

(1) CLOSE ONE LANE IN EACH DIRECTION AT SIGNALIZED INTERSECTION TO ALLOW FOR TURN LANE CONSTRUCTION.
(2) BARRICADES MAY BE USED TO CLOSE AT-GRADE INTERSECTIONS DURING CONSTRUCTION.
(3) IF REQUIRED, INTERSECTION MAY BE CLOSED WITH BARRICADES DURING DAY TIME WORK.

SCALE
0 40 80 120



TRAFFIC CONTROL SHEET 11 OF 12

STATE OF MISSOURI
DONALD THOMAS SAIKO
NUMBER PE-28475
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED: 2/13/2026
ROUTE: VAR. | STATE: MO
DISTRICT: SW | SHEET NO.: 25
COUNTY: VARIOUS
JOB NO.: J7P3529
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)

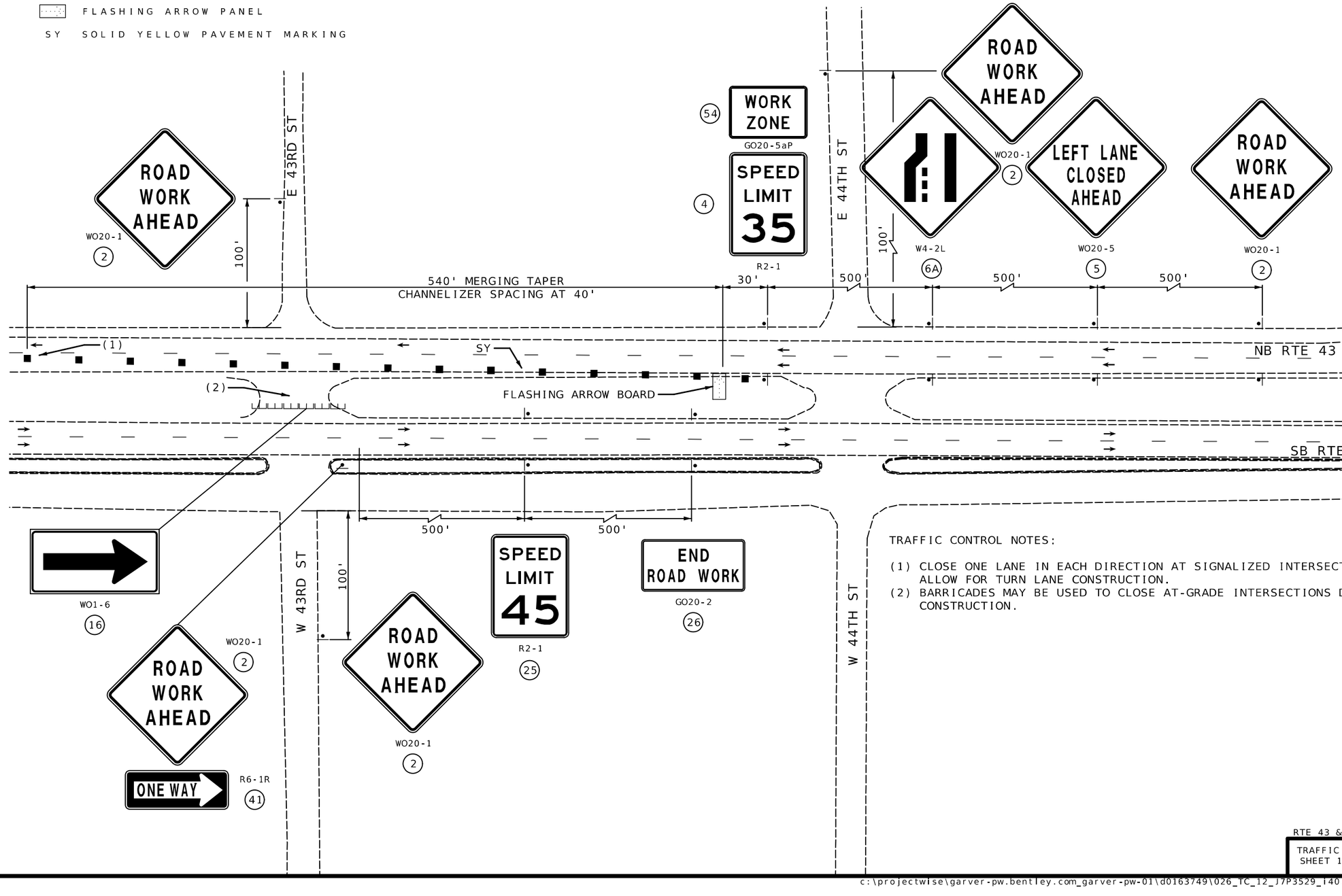
GARVER, LLC.
7509 NW TIFFANY SPRINGS PARKWAY, SUITE 200
KANSAS CITY, MO 64153
PHONE: (816) 298-6465
CERTIFICATE OF AUTHORITY NO. 2008013090

c:\projectwise\garver-pw.bentley.com_garver-pw-01\d0163749\025_TC_11_J7P3529_140.dgn 3:03:31 PM 2/13/2026

TRAFFIC CONTROL LEGEND

- SIGN (SINGLE SIDED)
- DIRECTION INDICATOR BARRICADES
- BARRICADE
- FLASHING ARROW PANEL
- SY SOLID YELLOW PAVEMENT MARKING

SCALE
0 40 80 120



TRAFFIC CONTROL NOTES:

(1) CLOSE ONE LANE IN EACH DIRECTION AT SIGNALIZED INTERSECTION TO ALLOW FOR TURN LANE CONSTRUCTION.
(2) BARRICADES MAY BE USED TO CLOSE AT-GRADE INTERSECTIONS DURING CONSTRUCTION.

RTE 43 & 41ST ST

TRAFFIC CONTROL SHEET 12 OF 12

STATE OF MISSOURI
DONALD THOMAS SAIKO
NUMBER PE-28475
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

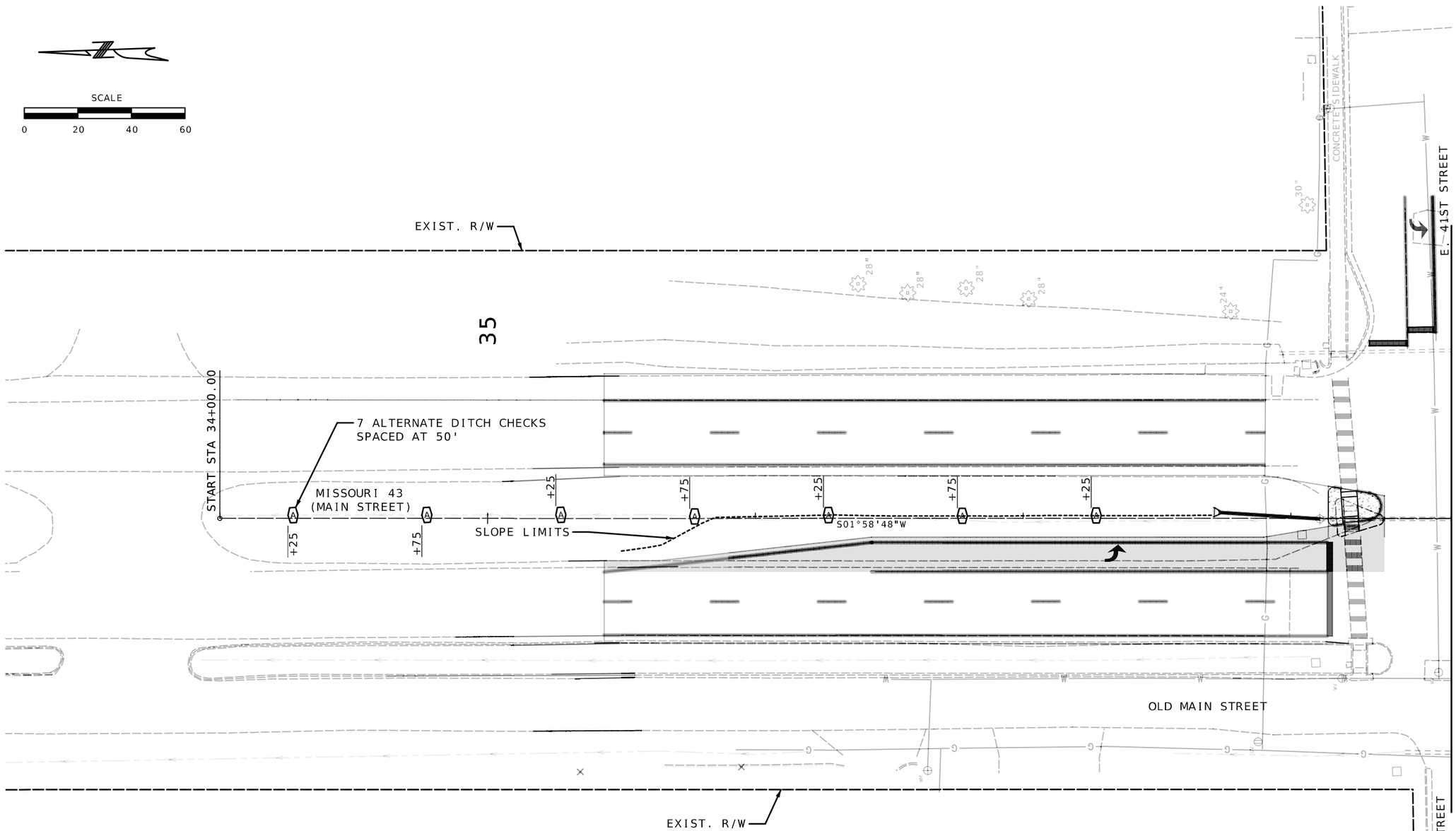
DATE PREPARED: 2/26/2026
ROUTE: VAR. | STATE: MO
DISTRICT: SW | SHEET NO.: 26
COUNTY: VARIOUS
JOB NO.: J7P3529
CONTRACT ID.:
PROJECT NO.:
BRIDGE NO.:

DESCRIPTION | DATE

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

GARVER, LLC.
7509 NW TIFFANY SPRINGS
PARKWAY, SUITE 200
KANSAS CITY, MO 64153
PHONE: (816) 298-6465
CERTIFICATE OF AUTHORITY
NO. 2008013090

c:\projectwise\garver-pw.bentley.com_garver-pw-01\d0163749\026_TC_12_J7P3529_i40.dgn 4:12:14 PM 2/26/2026



TEMPORARY EROSION CONTROL LEGEND

(A) ALTERNATE DITCH CHECK

MO 43 AND 41ST
EROSION CONTROL
SHEET 1 OF 3

STATE OF MISSOURI
DONALD THOMAS SAIKO
NUMBER PE-28475
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED: 2/13/2026

ROUTE	STATE
VAR.	MO
DISTRICT	SHEET NO.
SW	27

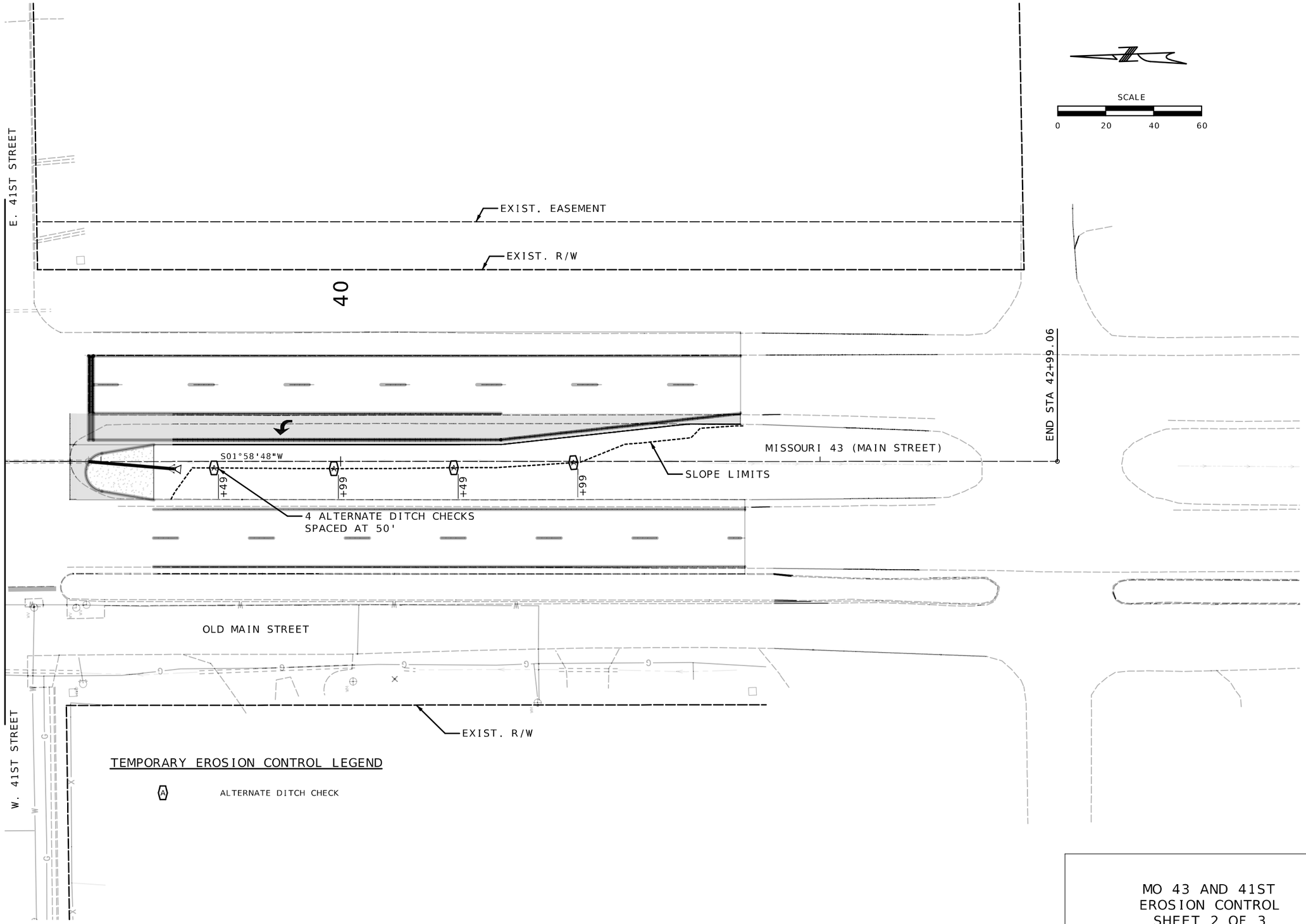
COUNTY: VARIOUS
JOB NO.: J7P3529
CONTRACT ID.:
PROJECT NO.:
BRIDGE NO.:

DESCRIPTION	DATE

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

GARVER, LLC.
7509 NW TIFFANY SPRINGS
PARKWAY, SUITE 200
KANSAS CITY, MO 64153
PHONE: (816) 298-6465
CERTIFICATE OF AUTHORITY
NO. 2008013090

GARVER



TEMPORARY EROSION CONTROL LEGEND

A ALTERNATE DITCH CHECK

MO 43 AND 41ST
EROSION CONTROL
SHEET 2 OF 3

STATE OF MISSOURI
DONALD THOMAS SAIKO
NUMBER PE-28475
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED 2/13/2026

ROUTE	STATE
VAR.	MO
DISTRICT	SHEET NO.
SW	28

COUNTY: VARIOUS
JOB NO.: J7P3529
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)

GARVER, LLC.
7509 NW TIFFANY SPRINGS PARKWAY, SUITE 200
KANSAS CITY, MO 64153
PHONE: (816) 298-6465
CERTIFICATE OF AUTHORITY NO. 2008013090

TEMPORARY EROSION CONTROL LEGEND

SCALE
0 10 20 30

ALTERNATE DITCH CHECK

SILT FENCE

℄ LP49

75 LF
SILT FENCE

90 LF
SILT FENCE

490

℄ STA 733+16.50 WALDO
HATLER MEMORIAL DRIVE
℄ STA 490+78.80 LP49

STA.
732+00.00

STA.
734+00.00

℄ WALDO HATLER MEMORIAL DR.

ALTERNATE DITCH CHECK

66 LF
SILT FENCE

ALTERNATE
DITCH CHECK

99 LF
SILT FENCE

NOTE: ALL STATIONS ARE SHOWN FROM
℄ WALDO HATLER MEMORIAL DR.

LP 49 AND WALDO HATLER
EROSION CONTROL
SHEET 3 OF 3

STATE OF MISSOURI
DONALD THOMAS SAIKO
NUMBER PE-28475
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED
2/26/2026

ROUTE	STATE
VAR.	MO
DISTRICT	SHEET NO.
SW	29

COUNTY
VARIOUS

JOB NO.
J7P3529

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)

GARVER, LLC.
7509 NW TIFFANY SPRINGS
PARKWAY, SUITE 200
KANSAS CITY, MO 64153
PHONE: (816) 298-6465
CERTIFICATE OF AUTHORITY
NO. 2008013090

LIGHTING LEGEND

- CONTROLLER
- CONTROLLER (EXISTING)
- JCT JUNCTION BOX
- POWER SUPPLY
- WOOD POST
- PREFORMED PULL BOX TYPE 1
- PREFORMED PULL BOX TYPE 2
- CONCRETE PULL BOX TYPE 1
- CONCRETE PULL BOX TYPE 2
- LED-A LUMINAIRE
- LED-B LUMINAIRE
- LED-C LUMINAIRE
- CABLE-CONDUIT (EXISTING)
- CABLE-CONDUIT
- CONDUIT, RIGID (PUSHED)
- CONDUIT, RIGID (IN TRENCH)

NOTE: EXISTING LIGHT POLES AND FOUNDATIONS TO REMAIN. CONTRACTOR SHALL REMOVE AND REPLACE EXISTING LIGHT FIXTURES WITH NEW LED LIGHT FIXTURES.

EXISTING TYPE 1 POWER SUPPLY AND 120V LIGHTING CONTROLLER

EXLP101 938+96
80' LT
LED-A
(30 FT MOUNTING HEIGHT)

EXLP102 0+76
46' LT
LED-A
(30 FT MOUNTING HEIGHT)

EXLP201 938+64
49' RT
LED-A
(30 FT MOUNTING HEIGHT)

EXLP202 0+48
88' RT
LED-A
(30 FT MOUNTING HEIGHT)

EX CIRCUIT 1

EX CIRCUIT 2

40 MPH

US 65 (ASH ST)

RTE 32 (DALLAS ST.)

℄ RTE 32

35 MPH

SCALE 0 10 20 30

US 65 (ASH ST) AND RTE 32 (DALLAS ST) LIGHTING PLAN SHEET 1 OF 3

STATE OF MISSOURI
CLAIRE E. MCKINNEY NUMBER PE-2022028959
PROFESSIONAL ENGINEER

DATE PREPARED	2/26/2026
ROUTE	VAR.
STATE	MO
DISTRICT	SW
SHEET NO.	30
COUNTY	VARIOUS
JOB NO.	J7P3529
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)

GARVER, LLC.
7509 NW TIFFANY SPRINGS PARKWAY, SUITE 200
KANSAS CITY, MO 64153
PHONE: (816) 298-6465
CERTIFICATE OF AUTHORITY NO. 2008013090

c:\projectwise\garver-pw.bentley.com_garver-pw-01\avneet.singh\d0163749\030_LT_01_J7P3529.dgn 7:27:56 PM 2/26/2026

LIGHTING LEGEND

- CONTROLLER
- CONTROLLER (EXISTING)
- JCT JUNCTION BOX
- POWER SUPPLY
- WOOD POST
- PREFORMED PULL BOX TYPE 1
- PREFORMED PULL BOX TYPE 2
- CONCRETE PULL BOX TYPE 1
- CONCRETE PULL BOX TYPE 2
- LED-A LUMINAIRE
- LED-B LUMINAIRE
- LED-C LUMINAIRE
- CABLE-CONDUIT (EXISTING)
- CABLE-CONDUIT
- CONDUIT, RIGID (PUSHED)
- CONDUIT, RIGID (IN TRENCH)

SCALE 0 20 40 60

25 MPH

EXIST. R/W

710

US 60

45 MPH

OAK RIDGE DR.

4 — LP 1A02 710+99, 95' LT, LED-A (30 FT MOUNTING HEIGHT) 15 FT BRACKET

CABLE-COND CIRCUIT 1A

711+09, 86' LT

REMOVE EXISTING LIGHT POLE

3 — 4" RIGID CONDUIT CIRCUIT 1A, 711+93, 86' LT

2 — 712+49, 50' LT

LP 1A01 712+67, 55' LT, LED-A (30 FT MOUNTING HEIGHT) 15 FT BRACKET

CABLE-COND CIRCUIT 1A

4" RIGID CONDUIT CIRCUIT 1A

REMOVE EXISTING LIGHT POLE

7 — 710+54, 45' RT

CIRCUIT 1B

CABLE-COND CIRCUIT 1B

LP 1B02 710+49, 51' RT, LED-A (30 FT MOUNTING HEIGHT) 15 FT BRACKET

711+14, 99' RT

6 — 4" RIGID CONDUIT CIRCUIT 1B

5 — 711+95, 99' RT

CABLE-COND CIRCUIT 1B

LP 1B01 711+95, 105' RT, LED-A (30 FT MOUNTING HEIGHT) 15 FT BRACKET

1 — 712+48, 51' RT

CIRCUIT 1A

TYPE 2 POWER SUPPLY AND 120V LIGHTING CONTROLLER

OE, UE, G, SIGN, PP, P RISER

US 60 AND OAK RIDGE DR. LIGHTING PLAN SHEET 2 OF 3

CLAIRE E. MCKINNEY NUMBER PE-2022028959 PROFESSIONAL ENGINEER STATE OF MISSOURI

DATE PREPARED: 2/26/2026

ROUTE	STATE
VAR.	MO
DISTRICT	SHEET NO.
SW	31

COUNTY: VARIOUS

JOB NO.: J7P3529

CONTRACT ID.:

PROJECT NO.:

BRIDGE NO.:

DESCRIPTION	DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

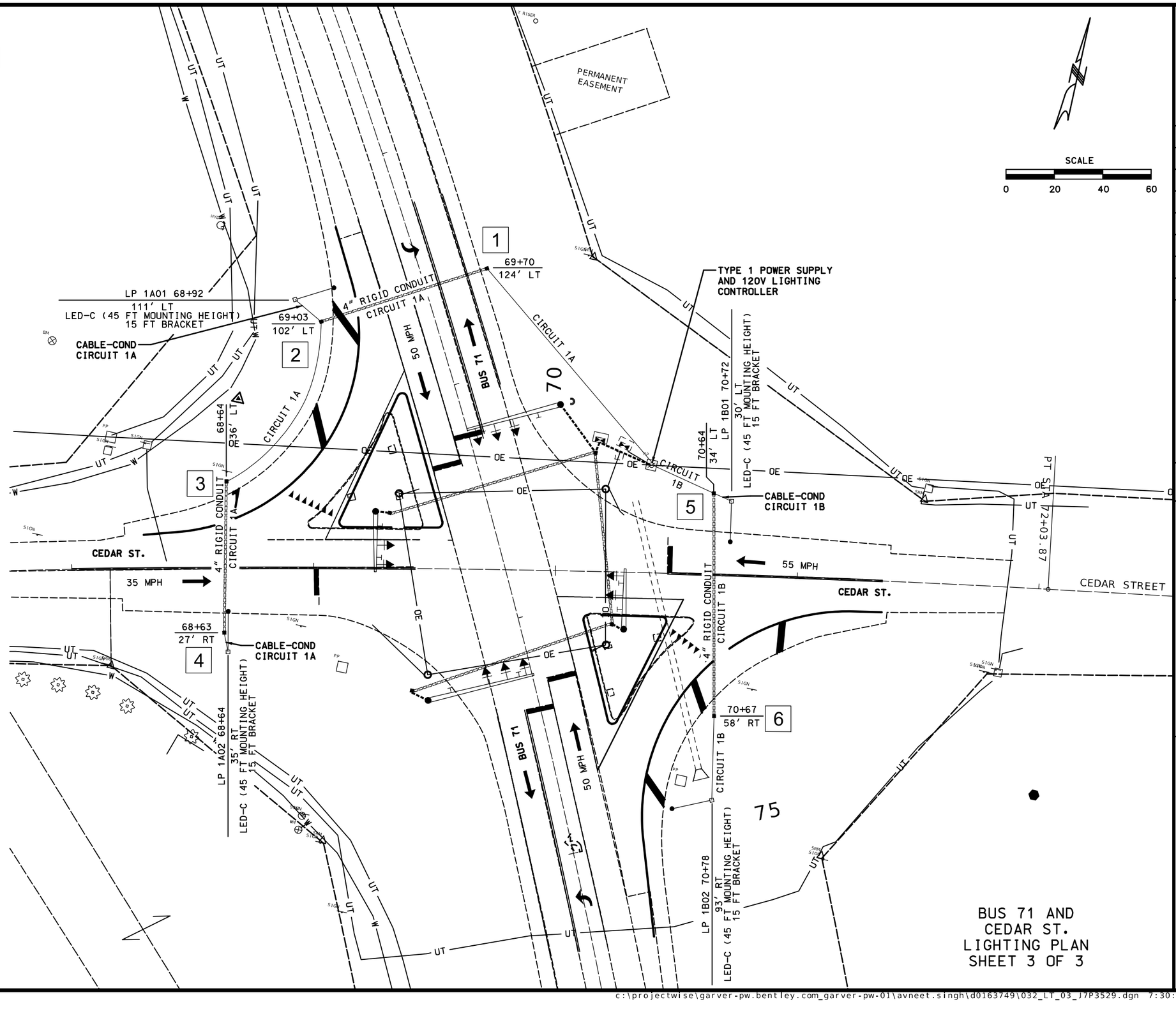
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

GARVER, LLC.
7509 NW TIFFANY SPRINGS
PARKWAY, SUITE 200
KANSAS CITY, MO 64153
PHONE: (816) 298-6465
CERTIFICATE OF AUTHORITY
NO. 2008013090

GARVER

LIGHTING LEGEND

- CONTROLLER
- CONTROLLER (EXISTING)
- JUNCTION BOX
- POWER SUPPLY
- WOOD POST
- PREFORMED PULL BOX TYPE 1
- PREFORMED PULL BOX TYPE 2
- CONCRETE PULL BOX TYPE 1
- CONCRETE PULL BOX TYPE 2
- LED-A LUMINAIRE
- LED-B LUMINAIRE
- LED-C LUMINAIRE
- CABLE-CONDUIT (EXISTING)
- CABLE-CONDUIT
- CONDUIT, RIGID (PUSHED)
- CONDUIT, RIGID (IN TRENCH)



PROFESSIONAL ENGINEER
STATE OF MISSOURI
CLAIRE E. MCKINNEY
NUMBER PE-2022028959

DATE PREPARED	2/26/2026
ROUTE	VAR.
STATE	MO
DISTRICT	SW
SHEET NO.	32
COUNTY	VARIOUS
JOB NO.	J7P3529
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)

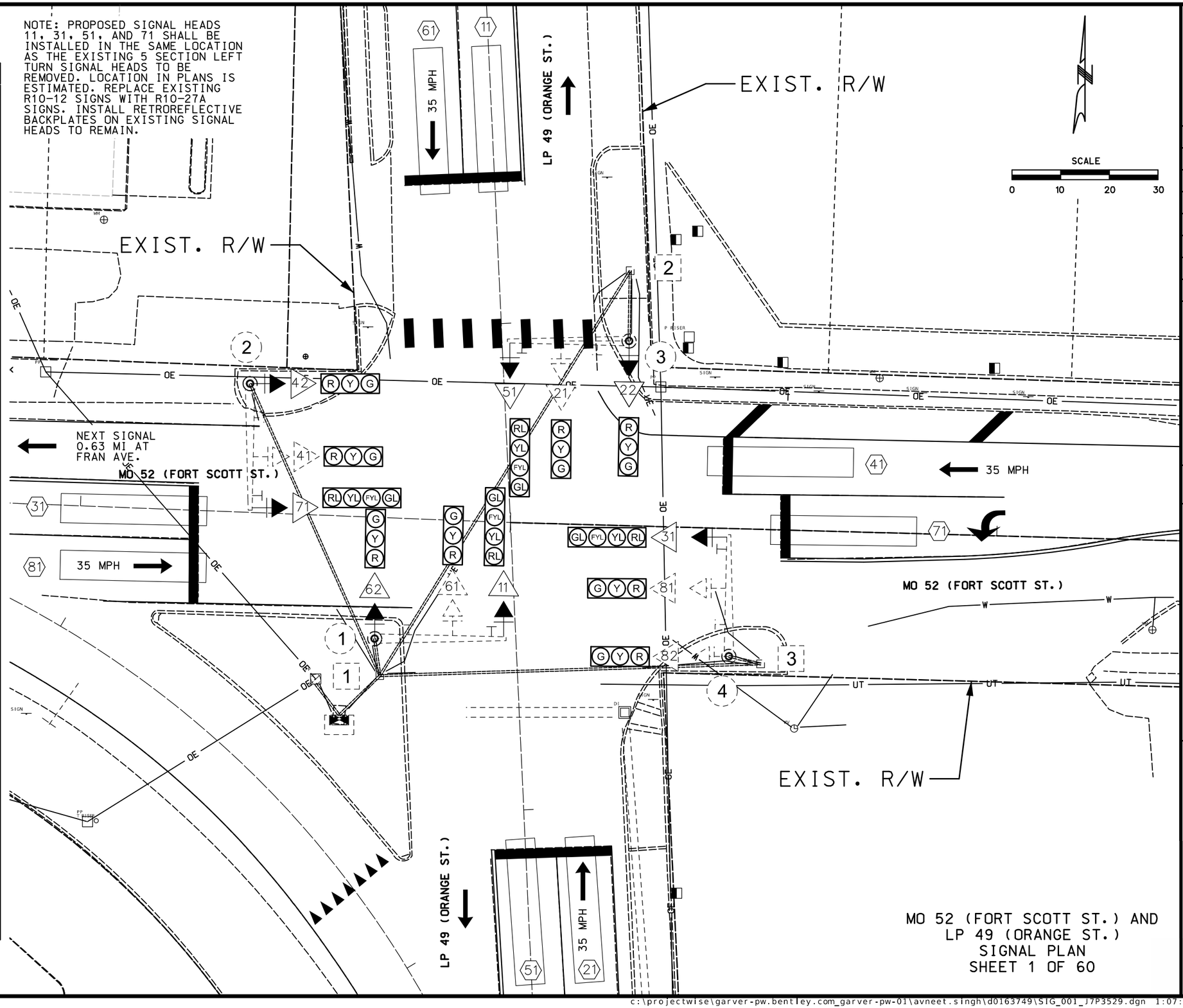
GARVER, LLC.
7509 NW TIFFANY SPRINGS PARKWAY, SUITE 200
KANSAS CITY, MO 64153
PHONE: (816) 298-6465
CERTIFICATE OF AUTHORITY NO. 2008013090

c:\projectwise\garver-pw.bentley.com_garver-pw-01\avneet.singh\d0163749\032_LT_03_J7P3529.dgn 7:30:39 PM 2/26/2026

NOTE: PROPOSED SIGNAL HEADS 11, 31, 51, AND 71 SHALL BE INSTALLED IN THE SAME LOCATION AS THE EXISTING 5 SECTION LEFT TURN SIGNAL HEADS TO BE REMOVED. LOCATION IN PLANS IS ESTIMATED. REPLACE EXISTING R10-12 SIGNS WITH R10-27A SIGNS. INSTALL RETROREFLECTIVE BACKPLATES ON EXISTING SIGNAL HEADS TO REMAIN.

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
- RADAR DETECTOR
- **WIRELESS RADIO (NEW)**
- 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
- MAST ARM (EXISTING)
- PULL BOX (EXISTING)
- DETECTOR WITH NUMBER
- 6 X 6 LOOP DETECTOR
- 6 X 15 LOOP DETECTOR
- 30 X 6 DETECTOR ZONE
- 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
- LUMINAIRE - LED A



MO 52 (FORT SCOTT ST.) AND
LP 49 (ORANGE ST.)
SIGNAL PLAN
SHEET 1 OF 60

CLAIRE E. MCKINNEY NUMBER PE-2022028959
STATE OF MISSOURI PROFESSIONAL ENGINEER

DATE PREPARED 2/26/2026

ROUTE	STATE
VAR.	MO
DISTRICT	SHEET NO.
SW	33

COUNTY: VARIOUS
JOB NO.: J7P3529
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)

GARVER, LLC.
7509 NW TIFFANY SPRINGS PARKWAY, SUITE 200
KANSAS CITY, MO 64153
PHONE: (816) 298-6465
CERTIFICATE OF AUTHORITY NO. 2008013090

EFFECTIVE: 07-01-2018

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

EFFECTIVE: 10-01-2015

CONDUIT (WITH #14 TRACER WIRE)

FROM	TO	CENTER TO CENTER DISTANCE	TRENCH 1"	TRENCH 1.25"	TRENCH 2"	TRENCH 4"	TRENCH 3.5"	PUSHED 2"	PUSHED 2.5"	PUSHED 4"	MEDIAN 2"	MEDIAN 3"	MEDIAN 4"	ON STRUCTURE 2"	ON STRUCTURE 3"	ON STRUCTURE 1"	REMARKS
⊠	ø	E		E													
⊠	1	E				E											
1	(1)	E			E												
1	(2)	E			E												
1	2	E			E												
2	(3)	E			E												
1	3	E			E												
3	(4)	E			E												
SUBTOTALS																	
TOTALS																	

CABLE

FROM	TO	CENTER TO CENTER DISTANCE	POWER 1c#8	POWER ** 1c#2	CONTROL 2c#16	CONTROL 5c#16	CONTROL 7c#16	CONTROL 3c#16	* RADAR DETECTION SENSOR 6c	LUMINAIRE CONTROL 2c#12	LUMINAIRE POLE & BRACKET 1c#10	DETECTOR 1c#14 IN DUCT	DETECTOR 2c#14 LEAD-IN CABLE	FIBER SINGLE-MODE	FIBER MULTI-MODE	RADIO *CAT 6	REMARKS
1	1	E					E										UIP EXISTING
6	6	16					29										JUMPER
7	7	E					E										UIP EXISTING
4	4	15					28										JUMPER
5	5	E					E										UIP EXISTING
2	2	14					27										JUMPER
3	3	E					E										
SUBTOTALS			0				84										
TOTALS			0				80										

* ITEMS FOR WHICH SEPARATE PAYMENT WILL NOT BE MADE

** CONDUIT AND CABLE BETWEEN POWER COMPANY SERVICE POLE AND POWER SUPPLY INCLUDED IN BID ITEM FOR POWER SUPPLY ASSEMBLY

MO 52 (FORT SCOTT ST.) AND
LP 49 (ORANGE ST.)
SIGNAL PLAN
SHEET 3 OF 60

D-37B

STATE OF MISSOURI
CLAIRE E. MCKINNEY
NUMBER PE-2022028959
PROFESSIONAL ENGINEER

DATE PREPARED 2/26/2026
ROUTE VAR. | STATE MO
DISTRICT SW | SHEET NO. 35
COUNTY VARIOUS
JOB NO. J7P3529
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)

GARVER, LLC.
7509 NW TIFFANY SPRINGS
PARKWAY, SUITE 200
KANSAS CITY, MO 64153
PHONE: (816) 298-6465
CERTIFICATE OF AUTHORITY
NO. 2008013090

EFFECTIVE: 04-01-2018

CONTROLLER ASSEMBLY AND AUXILIARY EQUIPMENT

LOCATION			SYSTEM MASTER (CLOSED LOOP)		ACTUATED		ON-OFF SWITCH TYPE		COORDINATION AND INTERFACE						TIME CLOCK	NEMA CABINET TYPE			2070 CABINET TYPE		2070 SOFTWARE	
									12C/7C HARDWARE (1)		TIME BASE	CLOSED LOOP		FIBER								
APPROACH	STATION	OFFSET	NEMA	2070	NEMA	2070	I	II	MASTER	LOCAL		NEMA	2070			E	EV	DOUBLE	332	336S	OMNI EX	WAPITI
MO 52 (FORT SCOTT ST)	UIP EXISTING				E		UIP EXISTING															

POWER SUPPLY

LOCATION			POWER SUPPLY ASSEMBLY		CIRCUIT BREAKER TRIP RATING				LIGHTING CONTROL (ON POWER SUPPLY)		SERVICE POLE	
					CONTROLLER		POWER SUPPLY DISCONNECT					
			DRAWING		AUXILIARY	CONT &	MAIN BREAKER					
APPROACH	STATION	OFFSET	902.15	DRAWING	BREAKER	SIGNAL LAMPS	SIGNALS	LIGHTING	120 VOLT CNTRL CABINET	MAIN BREAKER	CONTRACT FURNISH	UTILITY COMPANY
MO 52 (FORT SCOTT ST)	UIP EXISTING											

SIGNAL SIGNS

	QTY	MUTCD SIGN NUMBER	SIZE	AREA	SIGN TOTAL AREA ITEM NO. 90208.33	SIGNAL SIGN MOUNTING HARDWIRE ITEM NO. 90208.34
			INCHES	SQ.FT.	SQ.FT.	EA.
	4	R10-27A	30 X 36	7.5	30.0	4
*						
*						
				SUBTOTAL	30.0	4
				TOTAL	30.0	4

DETECTOR SCHEDULE

DETECTOR NUMBER	APPROACH	TYPE				
		APS PUSH BUTTON	INDUCTION LOOP (2)			RADAR *
			STANDARD	DELAY/ EXTEND	CALL UNIT	
	SUBTOTALS					
	TOTALS					

* 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 NO NEMA 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.

NEMA DETECTOR ASSIGNMENT

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

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

NEMA LOAD SWITCH ASSIGNMENTS

1	2	3	4	5	6	7	8	9	10	11	12
UIP EXISTING											

MO 52 (FORT SCOTT ST.) AND
LP 49 (ORANGE ST.)
SIGNAL PLAN
SHEET 4 OF 60

D-37C

CLAIRE E. MCKINNEY NUMBER PE-2022028959 STATE OF MISSOURI PROFESSIONAL ENGINEER

DATE PREPARED 2/26/2026

ROUTE VAR. | STATE MO

DISTRICT SW | SHEET NO. 36

COUNTY VARIOUS

JOB NO. J7P3529

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION | DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

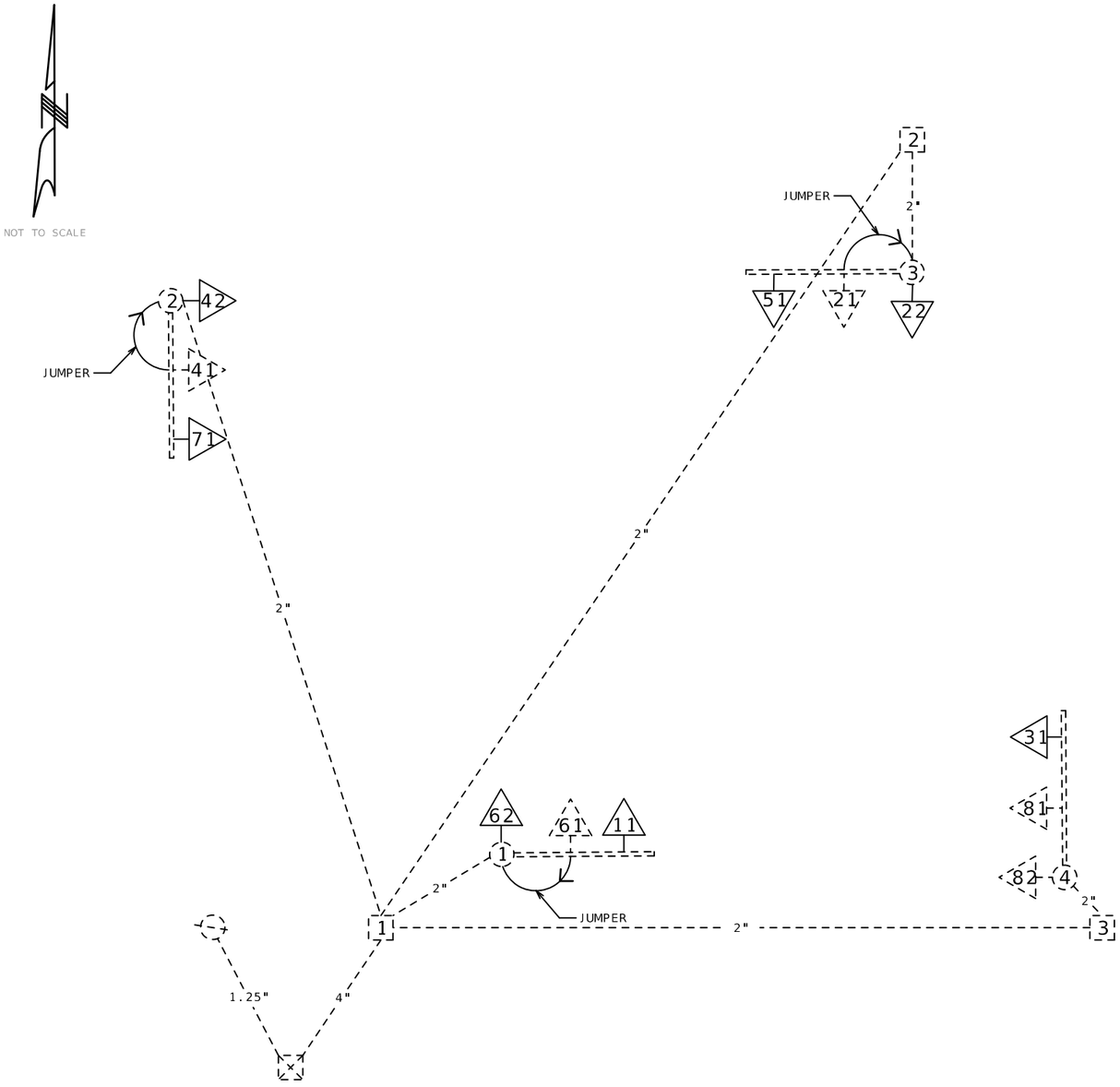
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

GARVER, LLC.
7509 NW TIFFANY SPRINGS
PARKWAY, SUITE 200
KANSAS CITY, MO 64153
PHONE: (816) 298-6465
CERTIFICATE OF AUTHORITY
NO. 2008013090

c:\projectwise\garver-pw.bentley.com_garver-pw-01\avneet.singh\d0163749\SIG_004.dgn 1:09:38 PM 2/26/2026

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
	RADAR DETECTOR
3"	EXISTING CONDUIT CONTAINING CABLE WITH SIZE
	EXISTING CABLE
X	EXISTING PULL BOX WITH NUMBER
X	EXISTING POST WITH MAST ARM
X	EXISTING SIGNAL HEAD WITH NUMBER
	EXISTING SIGNAL CONTROLLER
	EXISTING POWER SUPPLY

MO 52 (FORT SCOTT ST.) AND
LP 49 (ORANGE ST.)
SIGNAL PLAN
SHEET 5 OF 60

D-37D

CLAIRE E. MCKINNEY NUMBER PE-2022028959 — STATE OF MISSOURI — PROFESSIONAL ENGINEER

DATE PREPARED: 2/26/2026

ROUTE	STATE
VAR.	MO
DISTRICT	SHEET NO.
SW	37

COUNTY: VARIOUS

JOB NO.: J7P3529

CONTRACT ID.:

PROJECT NO.:

BRIDGE NO.:

DESCRIPTION	DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

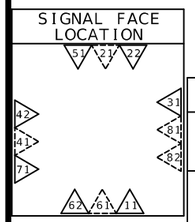
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

GARVER, LLC.
7509 NW TIFFANY SPRINGS
PARKWAY, SUITE 200
KANSAS CITY, MO 64153
PHONE: (816) 298-6465
CERTIFICATE OF AUTHORITY
NO. 2008013090

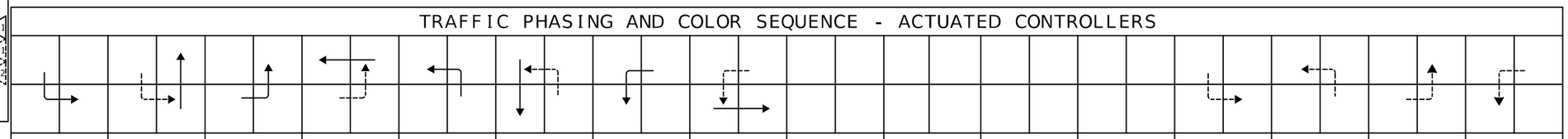
GARVER

EFFECTIVE: 12-01-2017

SIGNAL FACE LOCATION



TRAFFIC PHASING AND COLOR SEQUENCE - ACTUATED CONTROLLERS

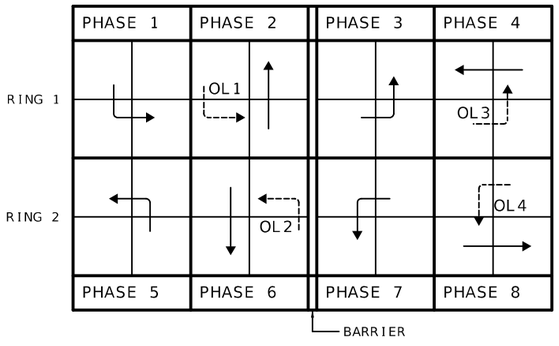


		PHASE 1	PHASE 2	PHASE 3	PHASE 4	PHASE 5	PHASE 6	PHASE 7	PHASE 8	OVERLAP 1	OVERLAP 2	OVERLAP 3	OVERLAP 4	
FACE NUMBERS		11	21 22	31	41 42	51	61 62	71	81 82	11	51	31	71	FACE NUMBERS
SIGNAL INDICATIONS	R	RL	R	RL	R	RL	R	RL	R					R
	Y	YL	Y	YL	Y	YL	Y	YL	Y					Y
	FYA									FYL	FYL	FYL	FYL	FYA
	G	L	G	L	G	L	G	L	G					G
DETECTOR ASSIGNMENTS														DETECTOR ASSIGNMENTS
DETECTOR ASSIGNMENTS (PEDS. ONLY)														
OVERLAP PARENT PHASES										2	6	4	8	

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



RING STRUCTURE

FLASHING OPERATION	
ALL APPROACHES	FR

CONTROLLER TYPE	NEMA

TRAFFIC SIGNAL CONTROL OPERATION

MO 52 (FORT SCOTT ST.) AND
LP 49 (ORANGE ST.)
SIGNAL PLAN
SHEET 6 OF 60

D-38A

CLAIRE E. MCKINNEY NUMBER PE-2022028959 STATE OF MISSOURI PROFESSIONAL ENGINEER

DATE PREPARED: 2/26/2026

ROUTE	STATE
VAR.	MO
DISTRICT	SHEET NO.
SW	38

COUNTY: VARIOUS

JOB NO.: J7P3529

CONTRACT ID.:

PROJECT NO.:

BRIDGE NO.:

DESCRIPTION | DATE

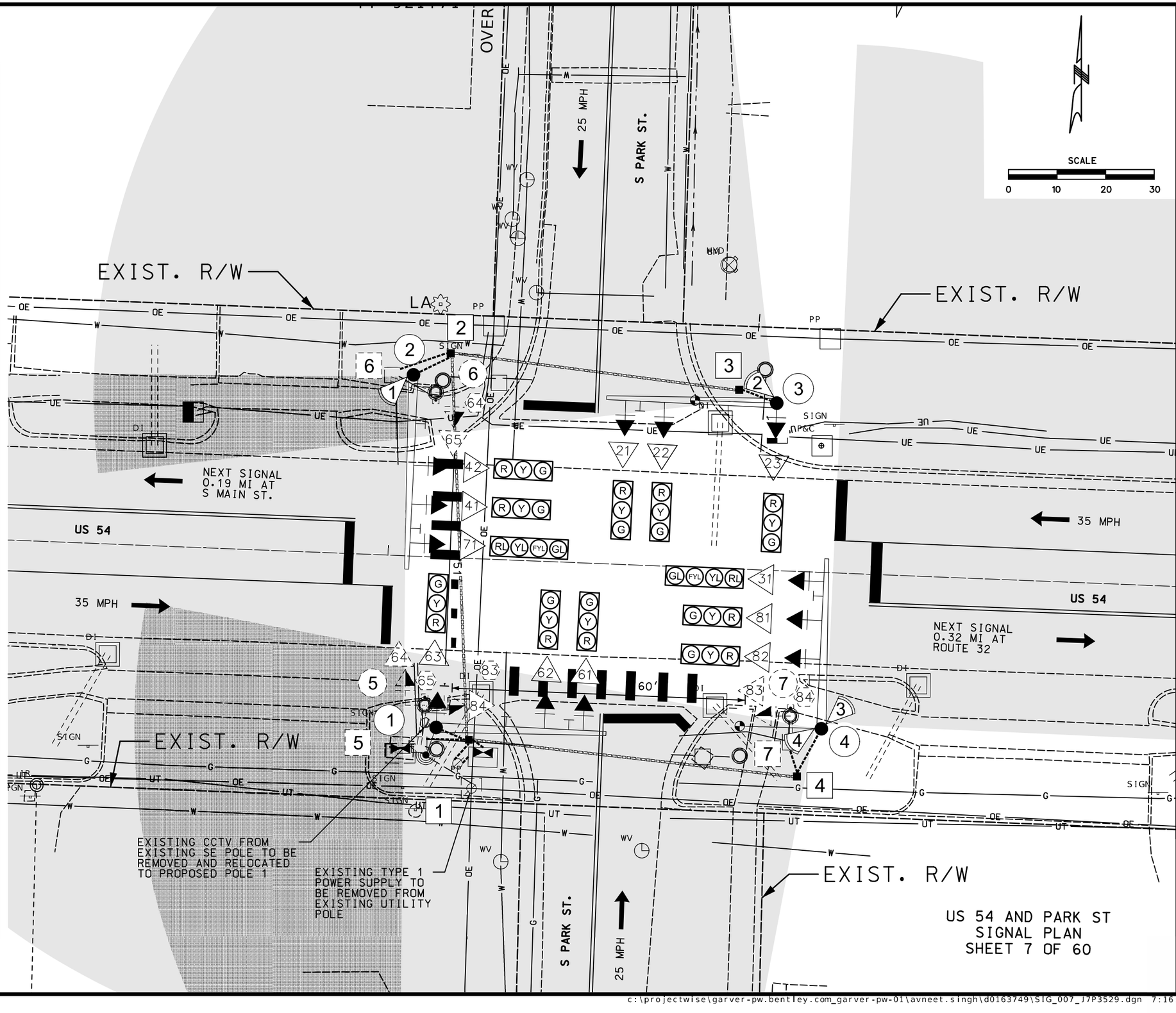
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

GARVER, LLC.
7509 NW TIFFANY SPRINGS
PARKWAY, SUITE 200
KANSAS CITY, MO 64153
PHONE: (816) 298-6465
CERTIFICATE OF AUTHORITY
NO. 2008013090

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 (EXISTING)
- VIDEO DETECTOR
- RADAR DETECTOR
- **WIRELESS RADIO (NEW)**
- 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
- MAST ARM (EXISTING)
- PULL BOX (EXISTING)
- DETECTOR WITH NUMBER
- 6 X 6 LOOP DETECTOR
- 6 X 15 LOOP DETECTOR
- 30 X 6 DETECTOR ZONE
- 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
- LUMINAIRE - LED A

NOTE: CONTRACTOR TO ENSURE CABINET IS INSTALLED SO THE DOORS OPEN AWAY FROM ROADWAY.



US 54 AND PARK ST
SIGNAL PLAN
SHEET 7 OF 60

CLAIRE E. MCKINNEY NUMBER PE-2022028959
STATE OF MISSOURI PROFESSIONAL ENGINEER

DATE PREPARED	2/26/2026
ROUTE	VAR.
STATE	MO
DISTRICT	SW
SHEET NO.	39
COUNTY	VARIOUS
JOB NO.	J7P3529
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)

GARVER, LLC.
7509 NW TIFFANY SPRINGS
PARKWAY, SUITE 200
KANSAS CITY, MO 64153
PHONE: (816) 298-6485
CERTIFICATE OF AUTHORITY
NO. 2008013090

EFFECTIVE: 07-01-2018

POST NUMBER	PULL BOX NUMBER	LOCATION: APPROACH	LOCATION: STATION	LOCATION: OFFSET	BASE: A: 9	A: 9.5	A: 10	A: 10.5	A: 11	A: 12	F: 9	F: 9.5	F: 10	F: 10.5	F: 11	■ REMOTE POST BASE	C	CONCRETE** (CU. YDS.)	PULL BOX: PREFORMED CONCRETE: CLASS 1	CLASS 2	CLASS 3	CLASS 5	DOUBLE, TYPE A	STANDARD	DRAIN TYPE*: I	II: A	B	C	TOP MOUNT POST: 8 FT.	15 FT.	■ REMOTE POST BASE	POST: TYPE C & CL: ARM LENGTH: 35'	40'	SIGNAL SPACING: A	A	B	C	D	D'	SIGN SPACING: B	C	D	D'	TYPE B & BL: ARM LENGTH	LEFT ARM E: SIGNAL SPACING	SIGN SPACING	RIGHT ARM K: SIGNAL SPACING	SIGN SPACING	INCLUDED ANGLE	LUMINAIRE BRACKET ARM*: 4 FT.	6 FT.	8 FT.	10 FT.	12 FT.	15 FT.
1		US 54	143+11.31	35.05'RT.		1												3.01														1																								1
2		US 54	143+03.77	37.28'LT.				1										3.27															1																								
3		US 54	143+78.71	34.46'LT.		1												3.01															1																								1
4		US 54	143+90.55	32.16'RT.		1												3.01															1																								1
5		US 54			EXISTING TO REMAIN																																																		
6		US 54			EXISTING TO REMAIN																																																	
7		US 54			EXISTING TO REMAIN																																																	
	1	US 54	143+18.13	37.32'RT.																			1				1																											
	2	US 54	143+11.22	42.04'LT.																				1	1																												
	3	US 54	143+70.83	36.84'LT.																				1	1																												
	4	US 54	143+85.98	42.23'RT.																				1	1																												
	5	US 54																	EXISTING TO REMAIN																																				
	6	US 54																	EXISTING TO REMAIN																																				
	7	US 54																	EXISTING TO REMAIN																																				
				SUBTOTALS														12.3					1	3	3	1							3	1																						2
				TOTALS														12.3					1	3	3	1							3	1																						2

SIGNAL HEADS

| SPAN NUMBER | POST NUMBER | FACE NUMBER | LUMINAIRE 150W SODIUM | INDICATIONS *: 12" LENS CONVENTIONAL: R | Y | RL | YL | FYL | FYR | G | S | GL | 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 | 2-: 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 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---

EFFECTIVE: 10-01-2015

CONDUIT (WITH #14 TRACER WIRE)

FROM	TO	CENTER TO CENTER DISTANCE	TRENCH 1"	TRENCH 1.25"	TRENCH 2"	TRENCH 4"	TRENCH 3.5"	PUSHED 2"	PUSHED 2.5"	PUSHED 4"	MEDIAN 2"	MEDIAN 3"	MEDIAN 4"	ON STRUCTURE 2"	ON STRUCTURE 3"	ON STRUCTURE 1"	REMARKS
⊠	ø	6			14												
⊠	1	4				14											2 CONDUITS
1	(1)	8				11											
1	5	10				8											
5	(5)	E															
1	2	80								78							
2	(2)	9				12											
2	6	13				11											
6	(6)	E															
2	3	60								58							
3	(3)	8				11											
1	4	68								66							
4	(4)	11				14											
4	7	7				5											
7	(7)	E															
ø	1	6			9												
SUBTOTALS					23	86				202							
TOTALS					23	86				202							

CABLE

FROM	TO	CENTER TO CENTER DISTANCE	POWER 1c#8	POWER ** 1c#2	CONTROL 2c#16	CONTROL 5c#16	CONTROL 7c#16	CONTROL 3c#16	* RADAR DETECTION SENSOR 6c	LUMINAIRE CONTROL 2c#12	LUMINAIRE POLE & BRACKET 1c#10	DETECTOR 1c#14 IN DUCT	DETECTOR 2c#14 LEAD-IN CABLE	FIBER SINGLE-MODE	FIBER MULTI-MODE	*CAT 6	REMARKS
⊠	ø	6	66														
⊠	61	12					82										
61	62	8					11										JUMPER
⊠	63	12					39										
⊠	84	22				52											
⊠	64	22				52											
⊠	65	22			51												
⊠	83	22			51												
⊠	71	93					174										
⊠	41	93					174										
41	42	8					11										JUMPER
⊠	65	107				143											
⊠	64	107			142												
⊠	21	152					234										
21	22	8					11										JUMPER
⊠	23	152					191										
⊠	31	83					159										
⊠	81	83					159										
81	82	8					11										JUMPER
⊠	83	84				120											
⊠	84	84			119												
⊠	1	93							147								
⊠	2	152							212								
⊠	3	83							137								
⊠	4	83							137								
⊠	RAD.	12														60	
ø	4	85								189	90						LUMINAIRE
1	3	148								171	90						LUMINAIRE
⊠		12														60	
SUBTOTALS			66		363	367	1256		633	360	180					120	
TOTALS			70		360	370	1260		630	360	180					120	

* ITEMS FOR WHICH SEPARATE PAYMENT WILL NOT BE MADE

** CONDUIT AND CABLE BETWEEN POWER COMPANY SERVICE POLE AND POWER SUPPLY INCLUDED IN BID ITEM FOR POWER SUPPLY ASSEMBLY

US 54 AND PARK ST.
SIGNAL PLAN
SHEET 9 OF 60

D-37B

STATE OF MISSOURI
CLAIRE E. MCKINNEY
NUMBER PE-2022028959
PROFESSIONAL ENGINEER

DATE PREPARED: 2/26/2026
ROUTE: VAR. | STATE: MO
DISTRICT: SW | SHEET NO.: 41
COUNTY: VARIOUS
JOB NO.: J7P3529
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)

GARVER, LLC.
7509 NW TIFFANY SPRINGS PARKWAY, SUITE 200
KANSAS CITY, MO 64153
PHONE: (816) 298-6465
CERTIFICATE OF AUTHORITY NO. 2008013090

GARVER

EFFECTIVE: 04-01-2018

CONTROLLER ASSEMBLY AND AUXILIARY EQUIPMENT

LOCATION			SYSTEM MASTER (CLOSED LOOP)		ACTUATED		ON-OFF SWITCH TYPE		COORDINATION AND INTERFACE						TIME CLOCK	NEMA CABINET TYPE			2070 CABINET TYPE		2070 SOFTWARE	
									12C/7C HARDWARE (1)		TIME BASE	CLOSED LOOP		FIBER								
APPROACH	STATION	OFFSET	NEMA	2070	NEMA	2070	I	II	MASTER	LOCAL		NEMA	2070			E	EV	DOUBLE	332	336S	OMNI EX	WAPITI
US 54	143+21.18	39.80'RT.				1													1		1	

POWER SUPPLY

LOCATION			POWER SUPPLY ASSEMBLY		CIRCUIT BREAKER TRIP RATING				LIGHTING CONTROL (ON POWER SUPPLY)		SERVICE POLE	
					CONTROLLER		POWER SUPPLY DISCONNECT					
			DRAWING				MAIN BREAKER					
APPROACH	STATION	OFFSET	902.15	DRAWING	AUXILIARY BREAKER	CONT & SIGNAL LAMPS	SIGNALS	LIGHTING	120 VOLT CNTRL CABINET	MAIN BREAKER	CONTRACT FURNISH	UTILITY COMPANY
US 54	143+15.99	42.27'RT.	Type 2		15 Amps	40 Amps	40 Amps	15 Amps	1	15 Amps		

SIGNAL SIGNS

QTY	MUTCD SIGN NUMBER	SIZE	AREA	SIGN TOTAL AREA ITEM NO. 90208.33	SIGNAL SIGN MOUNTING HARDWIRE ITEM NO. 90208.34
		INCHES	SQ.FT.	SQ.FT.	EA.
2	R10-27A	30 X 36	7.5	15.0	2
2	R10-12	30 X 36	7.5	15.0	2
2	D3-1	42 X 18	5.25	10.5	2
2	D3-1	60 X 18	7.50	15.0	2
* 2	R10-3eR	9 X 15	1.00	2.0	2
* 2	R10-3eL	9 X 15	1.00	2.0	2
			SUBTOTAL	55.5	8
			TOTAL	55.5	8

DETECTOR SCHEDULE

DETECTOR NUMBER	APPROACH	TYPE				
		APS PUSH BUTTON	INDUCTION LOOP (2)			RADAR *
			STANDARD	DELAY/ EXTEND	CALL UNIT	
1	EB					1
2	SB					1
3	WB					1
4	NB					1
64	SB @ EB US 54	E				
65	NB @ EB US 54	E				
83	EB @ NB PARK ST.	E				
84	WB @ NB PARK ST.	E				
	SUBTOTALS					4
	TOTALS					4

* ITEMS FOR WHICH SEPARATE PAYMENT WILL NOT BE MADE.

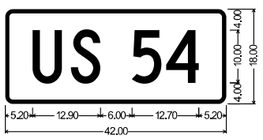
*** USE D3-1 FOR ONE LINE. USE D3-1B FOR TWO LINE.

(1) MoDOT "D" PLUG SHALL BE NO NEMA 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.

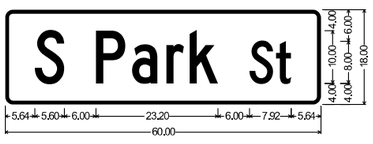
CONTRACTOR FURNISHED, CONTRACTOR INSTALLED RADAR DETECTION SYSTEM

1 EACH



D3-1 SH-FLAT SHEET:
1.50" Radius, 0.75" Border, White on Green;
"US 54", C 2K;
Table of letter and object lefts

U	S	5	4
5.20	12.50	24.10	30.60



D3-1 SH-FLAT SHEET:
1.50" Radius, 0.75" Border, White on Green;
"S Park", C 2K; "St", C 2K;
Table of letter and object lefts

S	P	a	r	k	S	t
5.64	17.24	24.14	30.64	35.04	46.44	51.48

2070 INPUT FILE ASSIGNMENTS

	CHANNEL	1	2	3	4	5	6	7	8	9	10	11	12	13	14
"I"	U		Ø2		Ø3	Ø4								64 65	
	L													83 84	
"J"	U		Ø6		Ø7	Ø8									
	L														

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

2070 OUTPUT FILE ASSIGNMENTS

FR1	PH 1	PH 2	2 PED	PH 3	PH 4	4 PED	MONITOR
		R		RL	R		
FR2		Y		YL	Y	PH 3 L	
		G		FYL	G		
FR3	PH 5	PH 6	6 PED	PH 7	PH 8	8 PED	
		R	DW	RL	R	DW	
FR4		Y		YL	Y	PH 7 L	
		G	W	FYL	G	W	

* NOTE: LEFT TURN "L" SHALL BE WIRED INTO PEDESTRIAN AMBER IN LOAD SWITCH

US 54 AND PARK ST.
SIGNAL PLAN
SHEET 10 OF 60

D-37C

CLAIRE E. MCKINNEY NUMBER PE-2022028959
STATE OF MISSOURI PROFESSIONAL ENGINEER

DATE PREPARED 2/26/2026

ROUTE	STATE
VAR.	MO
DISTRICT	SHEET NO.
SW	42

COUNTY: VARIOUS
JOB NO.: J7P3529
CONTRACT ID.:
PROJECT NO.:
BRIDGE NO.:

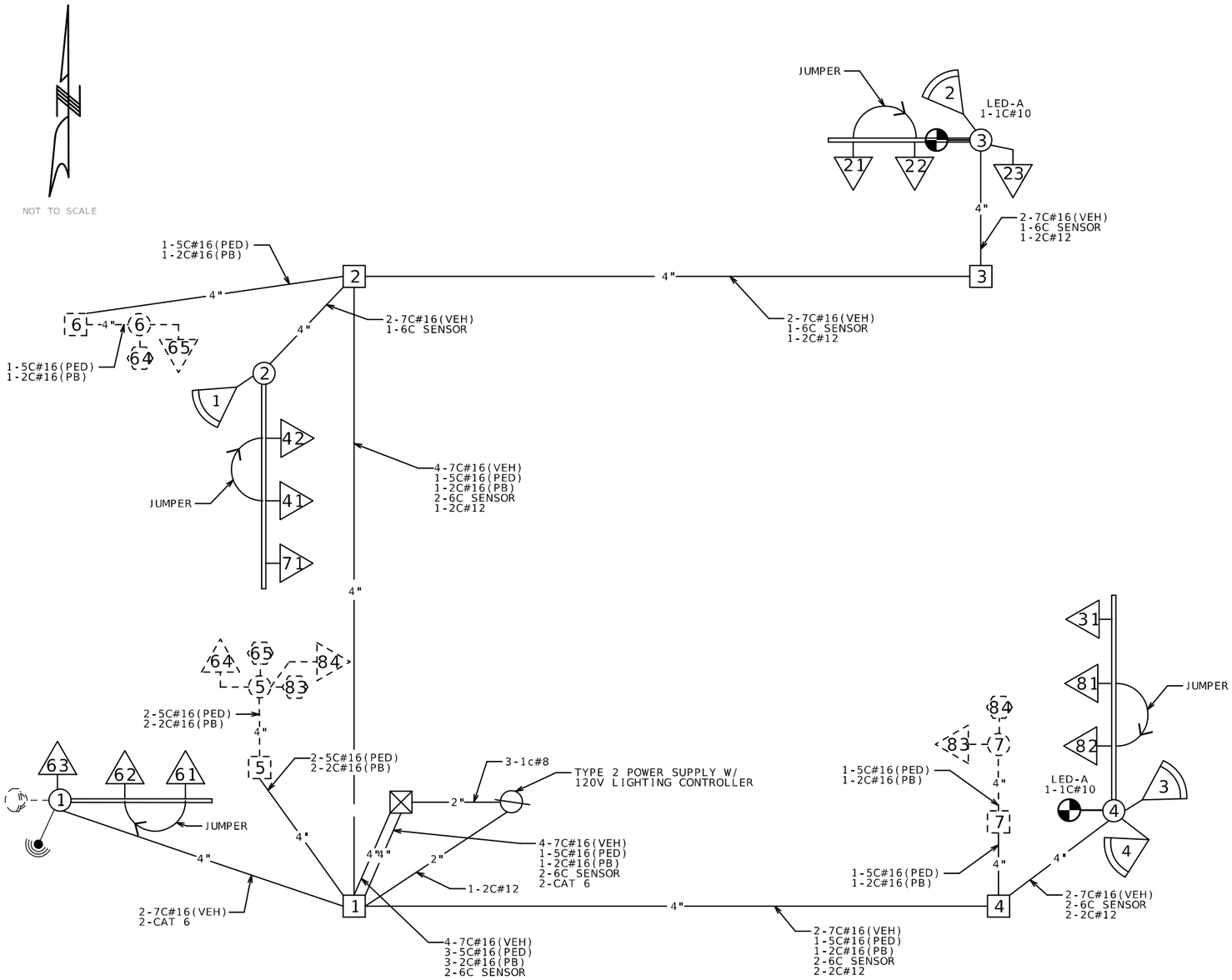
DESCRIPTION	DATE

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

GARVER, LLC.
7509 NW TIFFANY SPRINGS PARKWAY, SUITE 200
KANSAS CITY, MO 64153
PHONE: (816) 298-6465
CERTIFICATE OF AUTHORITY NO. 2008013090

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	EXISTING PULL BOX WITH NUMBER
X	POST WITH NUMBER
X	EXISTING POST WITH NUMBER
X	POST WITH MAST ARM
X	POST WITH MAST ARM AND LUMINAIRE
X	DETECTOR WITH NUMBER
X	EXISTING DETECTOR WITH NUMBER
X	SIGNAL HEAD WITH NUMBER
X	EXISTING SIGNAL HEAD WITH NUMBER
	SIGNAL CONTROLLER
	POWER SUPPLY
	LIGHTING CONTROLLER
	RADAR DETECTOR
	WIRELESS RADIO
	EXISTING CCTV CAMERA

US 54 AND PARK ST.
SIGNAL PLAN
SHEET 11 OF 60

D-37D

STATE OF MISSOURI
CLAIRE E. MCKINNEY
NUMBER PE-2022028959
PROFESSIONAL ENGINEER

DATE PREPARED
2/26/2026

ROUTE	STATE
VAR.	MO
DISTRICT	SHEET NO.
SW	43

COUNTY
VARIOUS

JOB NO.
J7P3529

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION | DATE

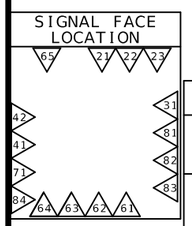
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

GARVER, LLC.
7509 NW TIFFANY SPRINGS
PARKWAY, SUITE 200
KANSAS CITY, MO 64153
PHONE: (816) 298-6465
CERTIFICATE OF AUTHORITY
NO. 2008013090

c:\projectwise\garver-pw.bentley.com_garver-pw-01\avneet.singh\d0163749\SIG_011.dgn 7:19:48 PM 2/26/2026

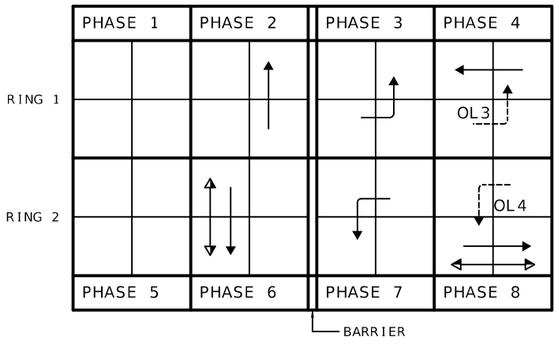
EFFECTIVE: 12-01-2017

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 Ø8 OVERLAP	PED Ø6 OVERLAP	PED Ø4 OVERLAP	PED Ø2 OVERLAP	OVERLAP 1	OVERLAP 2	OVERLAP 3	OVERLAP 4	
FACE NUMBERS		21 23	31	41		61 63	71	81	83	64					31	71	FACE NUMBERS
		22		42		62		82	84	65							
SIGNAL INDICATIONS R		R R	RL	R		R R	RL	R	DW	DW							R
SIGNAL INDICATIONS Y		Y Y	YL	Y		Y Y	YL	Y	FDW	FDW							Y
SIGNAL INDICATIONS FYA															FYL	FYL	FYA
SIGNAL INDICATIONS G		G G	GL	G		G G	G	G	W	W							G
DETECTOR ASSIGNMENTS																	DETECTOR ASSIGNMENTS
DETECTOR ASSIGNMENTS (PEDS. ONLY)																	
OVERLAP PARENT PHASES															4	8	



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	
ALL APPROACHES	FR

CONTROLLER TYPE	2070

TRAFFIC SIGNAL CONTROL OPERATION

US 54 AND PARK ST.
SIGNAL PLAN
SHEET 12 OF 60

D-38A

CLAIRE E. MCKINNEY NUMBER PE-2022028959 STATE OF MISSOURI PROFESSIONAL ENGINEER

DATE PREPARED: 2/26/2026

ROUTE	STATE
VAR.	MO
DISTRICT	SHEET NO.
SW	44

COUNTY: VARIOUS
JOB NO.: J7P3529
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)

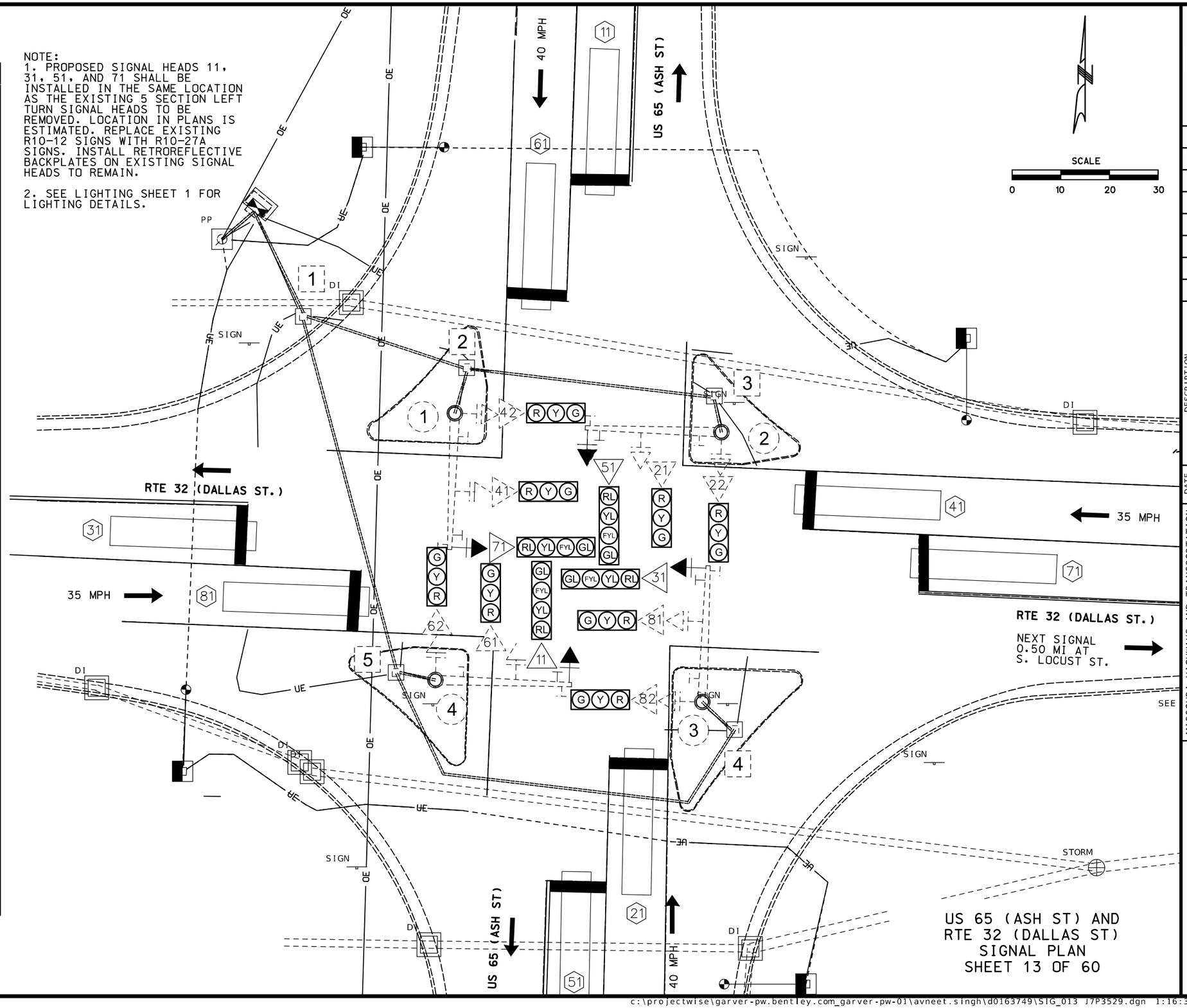
GARVER, LLC.
7509 NW TIFFANY SPRINGS
PARKWAY, SUITE 200
KANSAS CITY, MO 64153
PHONE: (816) 298-5465
CERTIFICATE OF AUTHORITY
NO. 2008013090

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
- RADAR DETECTOR
- **WIRELESS RADIO (NEW)**
- 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
- MAST ARM (EXISTING)
- PULL BOX (EXISTING)
- DETECTOR WITH NUMBER
- 6 X 6 LOOP DETECTOR
- 6 X 15 LOOP DETECTOR
- 30 X 6 DETECTOR ZONE
- 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

NOTE:
1. PROPOSED SIGNAL HEADS 11, 31, 51, AND 71 SHALL BE INSTALLED IN THE SAME LOCATION AS THE EXISTING 5 SECTION LEFT TURN SIGNAL HEADS TO BE REMOVED. LOCATION IN PLANS IS ESTIMATED. REPLACE EXISTING R10-12 SIGNS WITH R10-27A SIGNS. INSTALL RETROREFLECTIVE BACKPLATES ON EXISTING SIGNAL HEADS TO REMAIN.

2. SEE LIGHTING SHEET 1 FOR LIGHTING DETAILS.



US 65 (ASH ST) AND
RTE 32 (DALLAS ST)
SIGNAL PLAN
SHEET 13 OF 60

STATE OF MISSOURI
CLAIRE E. MCKINNEY
NUMBER PE-2022028959
PROFESSIONAL ENGINEER

DATE PREPARED	
2/26/2026	
ROUTE	STATE
VAR.	MO
DISTRICT	SHEET NO.
SW	45
COUNTY	
VARIOUS	
JOB NO.	
J7P3529	
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)

GARVER, LLC.
7509 NW TIFFANY SPRINGS
PARKWAY, SUITE 200
KANSAS CITY, MO 64153
PHONE: (816) 298-6465
CERTIFICATE OF AUTHORITY
NO. 2008013090

GARVER

EFFECTIVE: 07-01-2018

POST NUMBER	PULL BOX NUMBER	LOCATION: APPROACH	STATION	OFFSET	BASE: A 9	A 9.5	A 10	A 10.5	A 11	A 12	F 9	F 9.5	F 10	F 10.5	F 11	■ REMOTE POST BASE	C	CONCRETE** (CU. YDS.)
1		RTE 32			EXISTING TO REMAIN													
2		RTE 32			EXISTING TO REMAIN													
3		RTE 32			EXISTING TO REMAIN													
4		RTE 32			EXISTING TO REMAIN													
	1	RTE 32																
	2	RTE 32																
	3	RTE 32																
	4	RTE 32																
	5	RTE 32																
		SUBTOTALS																
		TOTALS																

POST NUMBER	PULL BOX NUMBER	PULL BOX: PREFORMED CLASS 1	CLASS 2	CLASS 3	CLASS 5	CONCRETE DOUBLE, TYPE A	STANDARD	DRAIN TYPE* I	II A	II B	II C	TOP MOUNT POST 8 FT.	15 FT.	■ REMOTE POST BASE	POST: TYPE C & CL ARM LENGTH A	A	A	A	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.
1															E				E	E	27'		E	E																														
2															E				E	E	27'		E	E																														
3															E				E	E	27'		E	E																														
4															E				E	E	27'		E	E																														
	1	EXISTING TO REMAIN																																																		
	2	EXISTING TO REMAIN																																																	
	3	EXISTING TO REMAIN																																																	
	4	EXISTING TO REMAIN																																																	
	5	EXISTING TO REMAIN																																																	

SIGNAL HEADS

| SPAN NUMBER | POST NUMBER | FACE NUMBER | LUMINAIRE 150W SODIUM | INDICATIONS * 12" LENS CONVENTIONAL: R | Y | RL | YL | FYL | FYR | G | S | GL | 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 | 2- 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 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---

EFFECTIVE: 10-01-2015

CONDUIT (WITH #14 TRACER WIRE)

FROM	TO	CENTER TO CENTER DISTANCE	TRENCH 1"	TRENCH 1.25"	TRENCH 2"	TRENCH 3"	TRENCH 4"	PUSHED 2"	PUSHED 3"	PUSHED 4"	MEDIAN 2"	MEDIAN 3"	MEDIAN 4"	ON STRUCTURE 2"	ON STRUCTURE 3"	ON STRUCTURE 1"	REMARKS
M	4	E		E													
M	1	E					E										
1	2	E							E								
2	1	E									E						
2	3	E						E									
3	2	E									E						
1	5	E							E								
5	4	E									E						
5	4	E						E									
4	3	E									E						
SUBTOTALS																	
TOTALS																	

CABLE

FROM	TO	CENTER TO CENTER DISTANCE	POWER 1c#8	POWER ** 1c#2	CONTROL 2c#16	CONTROL 5c#16	CONTROL 7c#16	CONTROL 3c#16	* RADAR DETECTION SENSOR 6c	LUMINAIRE CONTROL 2c#12	LUMINAIRE POLE & BRACKET 1c#10	DETECTOR 1c#14 IN DUCT	DETECTOR 2c#14 LEAD-IN CABLE	FIBER SINGLE-MODE	FIBER MULTI-MODE	RADIO * CAT 6	REMARKS
M	1	E					E										UIP EXISTING
M	3	E					E										UIP EXISTING
M	5	E					E										UIP EXISTING
M	7	E					E										UIP EXISTING
SUBTOTALS																	
TOTALS																	

* ITEMS FOR WHICH SEPARATE PAYMENT WILL NOT BE MADE

** CONDUIT AND CABLE BETWEEN POWER COMPANY SERVICE POLE AND POWER SUPPLY INCLUDED IN BID ITEM FOR POWER SUPPLY ASSEMBLY

US 65 (ASH ST) AND
RTE 32 (DALLAS ST)
SIGNAL PLAN
SHEET 15 OF 60

D-37B

STATE OF MISSOURI
CLAIRE E. MCKINNEY
NUMBER PE-2022028959
PROFESSIONAL ENGINEER

DATE PREPARED: 2/26/2026
ROUTE: VAR. | STATE: MO
DISTRICT: SW | SHEET NO.: 47
COUNTY: VARIOUS
JOB NO.: J7P3529
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)

GARVER, LLC.
7509 NW TIFFANY SPRINGS
PARKWAY, SUITE 200
KANSAS CITY, MO 64153
PHONE: (816) 298-6465
CERTIFICATE OF AUTHORITY
NO. 2008013090

c:\projectwise\garver-pw.bentley.com_garver-pw-01\avneet.singh\d0163749\SIG_015.dgn 1:18:03 PM 2/26/2026

EFFECTIVE: 04-01-2018

CONTROLLER ASSEMBLY AND AUXILIARY EQUIPMENT

LOCATION			SYSTEM MASTER (CLOSED LOOP)		ACTUATED		ON-OFF SWITCH TYPE		COORDINATION AND INTERFACE						TIME CLOCK	NEMA CABINET TYPE			2070 CABINET TYPE		2070 SOFTWARE	
									12C/7C HARDWARE (1)		TIME BASE	CLOSED LOOP		FIBER								
APPROACH	STATION	OFFSET	NEMA	2070	NEMA	2070	I	II	MASTER	LOCAL		NEMA	2070			E	EV	DOUBLE	332	336S	OMNI EX	WAPITI
RTE 32 (DALLAS ST)	UIP EXISTING																					

POWER SUPPLY

LOCATION			POWER SUPPLY ASSEMBLY		CIRCUIT BREAKER TRIP RATING				LIGHTING CONTROL (ON POWER SUPPLY)		SERVICE POLE	
					CONTROLLER		POWER SUPPLY DISCONNECT					
			DRAWING		AUXILIARY	CONT &	MAIN BREAKER		120 VOLT	MAIN	CONTRACT	UTILITY
APPROACH	STATION	OFFSET	902.15	DRAWING	BREAKER	SIGNAL LAMPS	SIGNALS	LIGHTING	CNTRL CABINET	BREAKER	FURNISH	COMPANY
RTE 32 (DALLAS ST)	UIP EXISTING											

SIGNAL SIGNS

QTY	MUTCD SIGN NUMBER	SIZE	AREA	SIGN TOTAL AREA ITEM NO. 90208.33	SIGNAL SIGN MOUNTING HARDWIRE ITEM NO. 90208.34
		INCHES	SQ.FT.	SQ.FT.	EA.
4	R10-27A	30 X 36	7.5	30.0	4
			SUBTOTAL	30.0	4
			TOTAL	30.0	4

DETECTOR SCHEDULE

DETECTOR NUMBER	APPROACH	TYPE				
		APS PUSH BUTTON	INDUCTION LOOP (2)			RADAR
			STANDARD	DELAY/ EXTEND	CALL UNIT	
SUBTOTALS						
TOTALS						

* 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.

2070 INPUT FILE ASSIGNMENTS

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

TOTAL NUMBER OF DETECTOR CARDS(2-CHANNEL) = (4)

2070 OUTPUT FILE ASSIGNMENTS

FR1	PH 1	PH 2	2 PED	PH 3	PH 4	4 PED	MONITOR
	RL	R		RL	R		
FR2	YL	Y	PH 1 L	YL	Y	PH 3 L	
	FYL	G		FYL	G		
FR3	PH 5	PH 6	6 PED	PH 7	PH 8	8 PED	
	RL	R		RL	R		
FR4	YL	Y	PH 5 L	YL	Y	PH 7 L	
	FYL	G		FYL	G		

* NOTE: LEFT TURN "L" SHALL BE WIRED INTO PEDESTRIAN AMBER IN LOAD SWITCH

US 65 (ASH ST) AND
RTE 32 (DALLAS ST)
SIGNAL PLAN
SHEET 16 OF 60

D-37C

STATE OF MISSOURI
CLAIRE E. MCKINNEY
NUMBER PE-2022028959
PROFESSIONAL ENGINEER

DATE PREPARED 2/26/2026

ROUTE	STATE
VAR.	MO
DISTRICT	SHEET NO.
SW	48

COUNTY: VARIOUS
JOB NO.: J7P3529
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)

GARVER, LLC.
7509 NW TIFFANY SPRINGS
PARKWAY, SUITE 200
KANSAS CITY, MO 64153
PHONE: (816) 298-6465
CERTIFICATE OF AUTHORITY
NO. 2008013090

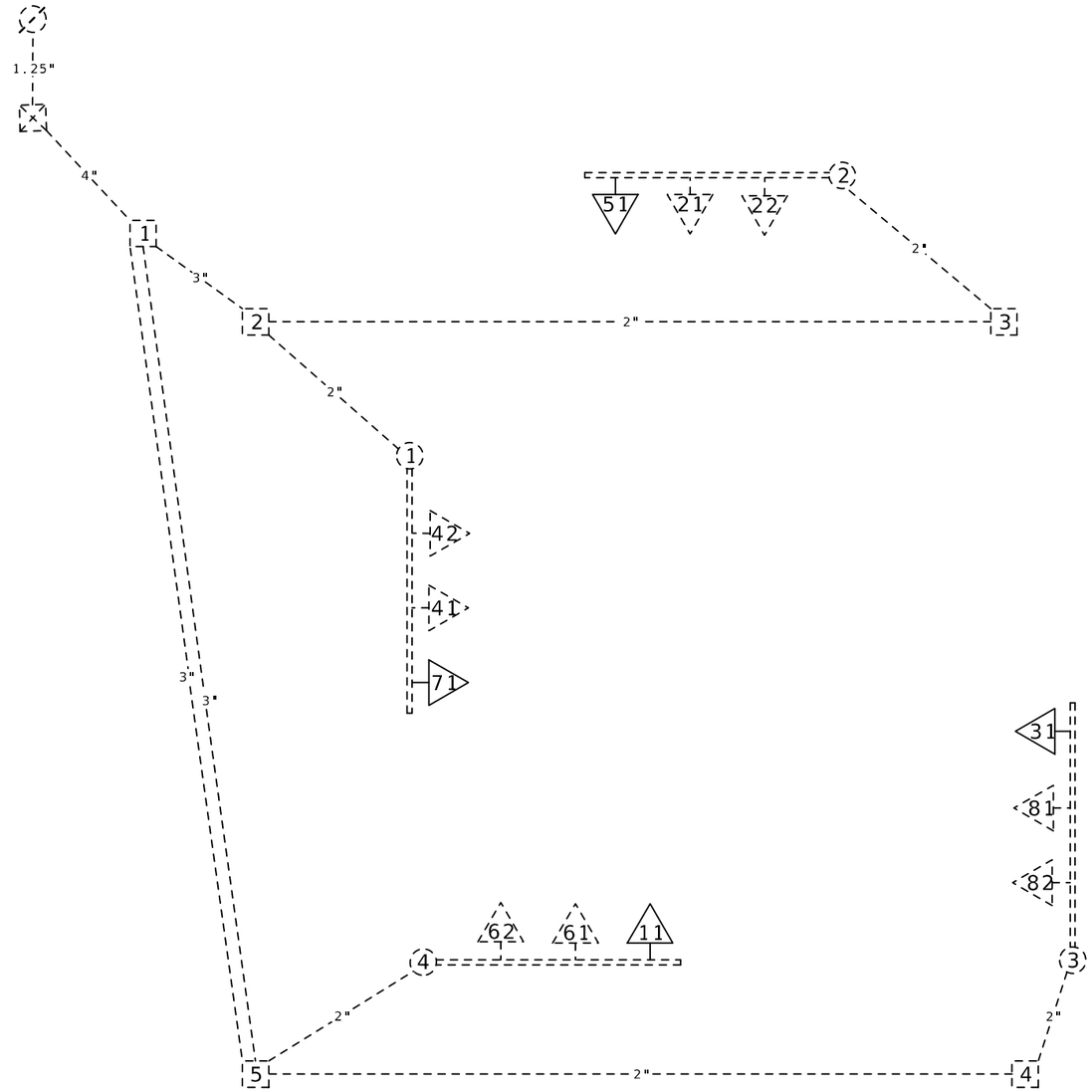
c:\projectwise\garver-pw.bentley.com_garver-pw-01\avneet.singh\d0163749\SIG_016.dgn 1:18:51 PM 2/26/2026

EFFECTIVE: 12-01-2017

WIRING DIAGRAM



NOT TO SCALE



NOTE: PLAN SHOWS ONLY PROPOSED CABLE. UNLESS SHOWN, NEW SIGNAL HEADS WILL USE THEIR EXISTING CABLE.

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
	RADAR DETECTOR
3"	EXISTING CONDUIT CONTAINING CABLE WITH SIZE
	EXISTING CABLE
X	EXISTING PULL BOX WITH NUMBER
X	EXISTING POST WITH MAST ARM
X	EXISTING SIGNAL HEAD WITH NUMBER
	EXISTING SIGNAL CONTROLLER
	EXISTING POWER SUPPLY

US 65 (ASH ST) AND
RTE 32 (DALLAS ST)
SIGNAL PLAN
SHEET 17 OF 60

D-37D

STATE OF MISSOURI
CLAIRE E. MCKINNEY
NUMBER PE-2022028959
PROFESSIONAL ENGINEER

DATE PREPARED
2/26/2026

ROUTE	STATE
VAR.	MO
DISTRICT	SHEET NO.
SW	49

COUNTY
VARIOUS

JOB NO.
J7P3529

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION	DATE

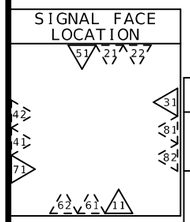
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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

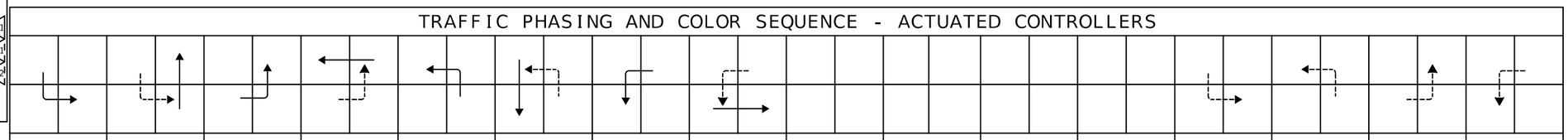
GARVER, LLC.
7509 NW TIFFANY SPRINGS
PARKWAY, SUITE 200
KANSAS CITY, MO 64153
PHONE: (816) 298-6465
CERTIFICATE OF AUTHORITY
NO. 2008013090

EFFECTIVE: 12-01-2017

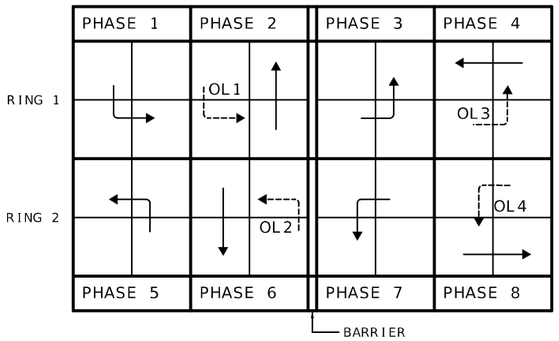
SIGNAL FACE LOCATION



TRAFFIC PHASING AND COLOR SEQUENCE - ACTUATED CONTROLLERS



		PHASE 1	PHASE 2	PHASE 3	PHASE 4	PHASE 5	PHASE 6	PHASE 7	PHASE 8	OVERLAP 1	OVERLAP 2	OVERLAP 3	OVERLAP 4	
FACE NUMBERS		11	21 22	31	41 42	51	61 62	71	81 82	11	51	31	71	FACE NUMBERS
SIGNAL INDICATIONS	R	RL	R	RL	R	RL	R	RL	R					R
	Y	YL	Y	YL	Y	YL	Y	YL	Y					Y
	FYA									FYL	FYL	FYL	FYL	FYA
	G	L	G	L	G	L	G	L	G					G
DETECTOR ASSIGNMENTS														DETECTOR ASSIGNMENTS
DETECTOR ASSIGNMENTS (PEDS. ONLY)														
OVERLAP PARENT PHASES										2	6	4	8	



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	
ALL APPROACHES	FR

CONTROLLER TYPE	2070

TRAFFIC SIGNAL CONTROL OPERATION

US 65 (ASH ST) AND
RTE 32 (DALLAS ST)
SIGNAL PLAN
SHEET 18 OF 60

D-38A

CLAIRE E. MCKINNEY NUMBER PE-2022028959
STATE OF MISSOURI PROFESSIONAL ENGINEER

DATE PREPARED: 2/26/2026
ROUTE: VAR. | STATE: MO
DISTRICT: SW | SHEET NO.: 50
COUNTY: VARIOUS
JOB NO.: J7P3529
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)

GARVER, LLC.
7509 NW TIFFANY SPRINGS
PARKWAY, SUITE 200
KANSAS CITY, MO 64153
PHONE: (816) 298-6465
CERTIFICATE OF AUTHORITY
NO. 2008013090

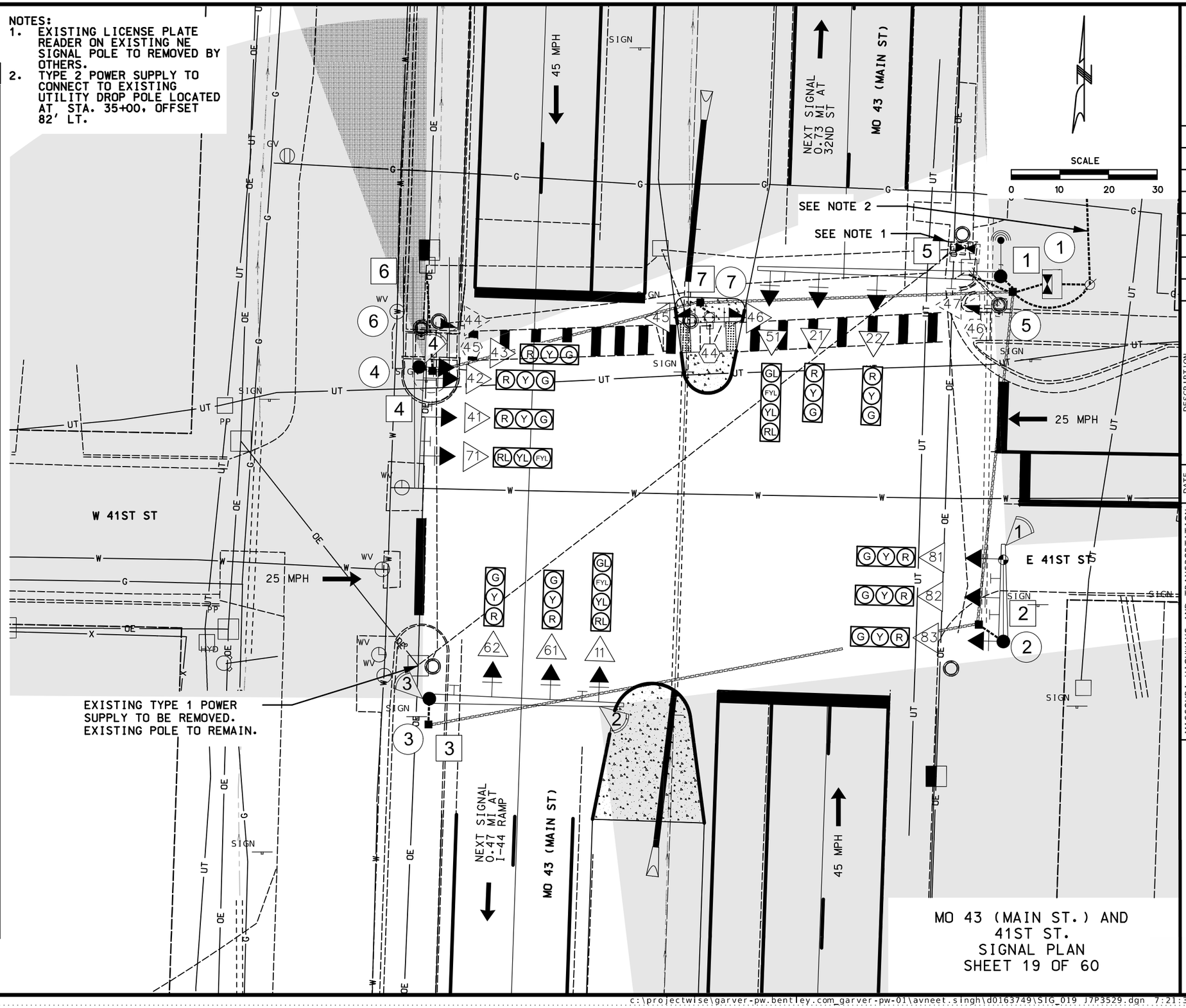
GARVER

NOTES:
1. EXISTING LICENSE PLATE READER ON EXISTING NE SIGNAL POLE TO REMOVED BY OTHERS.
2. TYPE 2 POWER SUPPLY TO CONNECT TO EXISTING UTILITY DROP POLE LOCATED AT, STA. 35+00, OFFSET 82' LT.

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
- RADAR DETECTOR
- **WIRELESS RADIO (NEW)**
- 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
- MAST ARM (EXISTING)
- PULL BOX (EXISTING)
- DETECTOR WITH NUMBER
- 6 X 6 LOOP DETECTOR
- 6 X 15 LOOP DETECTOR
- 30 X 6 DETECTOR ZONE
- 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
- LUMINAIRE - LED A

NOTE: CONTRACTOR TO ENSURE CABINET IS INSTALLED SO THE DOORS OPEN AWAY FROM ROADWAY.



MO 43 (MAIN ST.) AND 41ST ST.
SIGNAL PLAN
SHEET 19 OF 60

STATE OF MISSOURI
CLAIRE E. MCKINNEY
NUMBER PE-2022028959
PROFESSIONAL ENGINEER

DATE PREPARED: 2/26/2026

ROUTE	STATE
VAR.	MO
DISTRICT	SHEET NO.
SW	51

COUNTY: VARIOUS
JOB NO.: J7P3529
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)

GARVER, LLC.
7509 NW TIFFANY SPRINGS PARKWAY, SUITE 200
KANSAS CITY, MO 64153
PHONE: (816) 298-6465
CERTIFICATE OF AUTHORITY NO. 2008013090

EFFECTIVE: 07-01-2018

| POST NUMBER | PULL BOX NUMBER | LOCATION APPROACH | STATION | OFFSET | BASE A 9 | A 9.5 | A 10 | A 10.5 | A 11 | A 12 | F 9 | F 9.5 | F 10 | F 10.5 | F 11 | ■ REMOTE POST BASE | C | CONCRETE** (CU. YDS.) | PULL BOX PREFORMED CLASS 1 | CLASS 2 | CLASS 3 | CLASS 5 | CONCRETE DOUBLE, TYPE A | STANDARD | DRAIN TYPE* I | II A | II B | II C | TOP MOUNT POST 8 FT. | 15 FT. | ■ REMOTE POST BASE | POST TYPE C & CL ARM LENGTH 20' | 25' | 40' | 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

CONDUIT (WITH #14 TRACER WIRE)

FROM	TO	CENTER TO CENTER DISTANCE	TRENCH 1"	TRENCH 1.25"	TRENCH 2"	TRENCH 4"	TRENCH 3.5"	PUSHED 2"	PUSHED 2.5"	PUSHED 4"	MEDIAN 2"	MEDIAN 3"	MEDIAN 4"	ON STRUCTURE 2"	ON STRUCTURE 3"	ON STRUCTURE 1"	REMARKS
☒	ø	9			17												
☒	1	8				22											2 CONDUITS
1	(1)	4				7											
1	5	11				9											
5	(5)	10				E											
1	2	69								67							
2	(2)	6				9											
2	3	116								114							
3	(3)	6				9											
1	7	65								63							
7	4	57								55							
4	(4)	3				6											
4	6	22				20											
6	(6)	13				E											
7	(7)	3				6											
ø	1	19			22												
ø	P.S.	310			314												POWER SOURCE
SUBTOTALS					353	88				299							
TOTALS					353	88				299							

CABLE

FROM	TO	CENTER TO CENTER DISTANCE	POWER 1c#8	POWER 1c#2	CONTROL 2c#16	CONTROL 5c#16	CONTROL 7c#16	CONTROL 3c#16	* RADAR DETECTION SENSOR 6c	LUMINAIRE CONTROL 2c#12	LUMINAIRE POLE & BRACKET 1c#10	DETECTOR 1c#14 IN DUCT	DETECTOR 2c#14 LEAD-IN CABLE	FIBER SINGLE-MODE	FIBER MULTI-MODE	RADIO * CAT 6	REMARKS
☒	ø	9	75														
☒	5 1	12					97										
☒	2	12					97										
2 1	2 2	12					15										JUMPER
☒	8	83					144										
8 1	8 2	8					11										JUMPER
☒	8 3	83					116										
☒	1	199					286										
☒	6	199					286										
6 1	6 2	12					15										JUMPER
☒	7	133					205										
☒	4	133					205										
4 1	4 2	8					11										JUMPER
☒	4 3	133					172										
☒	4 7	29				59											
☒	4 6	29			58												
☒	4 5	165				207											
☒	4 5	165			206												
☒	(4 5)	76				106											
☒	4 6	76				106											
☒	4 4	76			105												
☒	(1)	83							157								
☒	(2)	199							299								
☒	(3)	199							259								
☒	(4)	133							193								
☒	RAD.	12														60	POWER SOURCE
ø	(2)	94								119	90						LUMINAIRE
ø	P.S.	310		1059													
SUBTOTALS			75	1059	369	478	1660		908	119	90					60	
TOTALS			80	1060	370	480	1660		910	120	90					60	

* ITEMS FOR WHICH SEPARATE PAYMENT WILL NOT BE MADE

** CONDUIT AND CABLE BETWEEN POWER COMPANY SERVICE POLE AND POWER SUPPLY INCLUDED IN BID ITEM FOR POWER SUPPLY ASSEMBLY

MO 43 (MAIN ST)
AND 41ST ST
SIGNAL PLAN
SHEET 21 OF 60

D-37B

STATE OF MISSOURI
CLAIRE E. MCKINNEY
NUMBER PE-2022028959
PROFESSIONAL ENGINEER

DATE PREPARED 2/26/2026
ROUTE VAR. | STATE MO
DISTRICT SW | SHEET NO. 53
COUNTY VARIOUS
JOB NO. J7P3529
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)

GARVER, LLC.
7509 NW TIFFANY SPRINGS PARKWAY, SUITE 200
KANSAS CITY, MO 64153
PHONE: (816) 298-6465
CERTIFICATE OF AUTHORITY NO. 2008013090

EFFECTIVE: 04-01-2018

CONTROLLER ASSEMBLY AND AUXILIARY EQUIPMENT

LOCATION			SYSTEM MASTER (CLOSED LOOP)		ACTUATED		ON-OFF SWITCH		COORDINATION AND INTERFACE						TIME CLOCK	NEMA CABINET TYPE			2070 CABINET TYPE		2070 SOFTWARE	
							TYPE		12C/7C HARDWARE (1)		TIME BASE	CLOSED LOOP		FIBER								
APPROACH	STATION	OFFSET	NEMA	2070	NEMA	2070	I	II	MASTER	LOCAL		NEMA	2070			E	EV	DOUBLE	332	336S	OMNI EX	WAPITI
MO 43 (MAIN ST.)	38+08.79	73.67'LT.				1													1		1	

POWER SUPPLY

LOCATION			POWER SUPPLY ASSEMBLY		CIRCUIT BREAKER TRIP RATING				LIGHTING CONTROL (ON POWER SUPPLY)		SERVICE POLE	
					CONTROLLER		POWER SUPPLY DISCONNECT					
			DRAWING		AUXILIARY	CONT &	MAIN BREAKER		120 VOLT	MAIN	CONTRACT	UTILITY
APPROACH	STATION	OFFSET	902.15	DRAWING	BREAKER	SIGNAL LAMPS	SIGNALS	LIGHTING	CNTRL CABINET	BREAKER	FURNISH	COMPANY
MO 43 (MAIN ST.)	38+08.60	82.43'LT.	Type 2		15 Amps	40 Amps	40 Amps	15 Amps	1	15 Amps		

SIGNAL SIGNS

QTY	MUTCD SIGN NUMBER	SIZE	AREA	SIGN TOTAL AREA ITEM NO. 90208.33	SIGNAL SIGN MOUNTING HARDWIRE ITEM NO. 90208.34	
		INCHES	SQ.FT.	SQ.FT.	EA.	
3	R10-27A	30 X 36	7.5	22.5	3	
1	R10-12	30 X 36	7.5	7.5	1	
2	D3-1	48 X 18	6	12.0	2	
2	D3-1	60 X 18	7.5	15.0	2	
1	R10-3e MOD.	9 X 15	1.0	1.0	1	*
			SUBTOTAL	57.0	8	
			TOTAL	57.0	8	

DETECTOR SCHEDULE

DETECTOR NUMBER	APPROACH	TYPE				
		APS PUSH BUTTON	INDUCTION LOOP (2)			RADAR*
			STANDARD	DELAY/ EXTEND	CALL UNIT	
1	WB					1
2	NB					1
3	EB					1
4	SB					1
44	EB/WB @ SB MO 43	1				
45	EB @ SB MO 43	E				
46	WB @ SB MO 43	E				
	SUBTOTALS	1				4
	TOTALS	1				4

* 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.

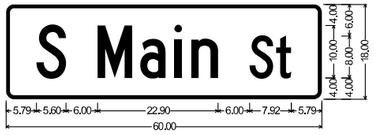
CONTRACTOR FURNISHED, CONTRACTOR INSTALLED
RADAR DETECTION SYSTEM

1 EACH



D3-1 SH-FLAT SHEET;
1.50" Radius, 0.75" Border, White on Green;
"41st", C 2K; "St", C 2K;
Table of letter and object lefts

4	1	s	t	S	t
7.14	15.14	18.74	23.34	32.94	37.98



D3-1 SH-FLAT SHEET;
1.50" Radius, 0.75" Border, White on Green;
"S Main", C 2K; "St", C 2K;
Table of letter and object lefts

S	M	a	i	n	S	t
5.79	17.39	25.49	31.99	35.19	46.29	51.33

2070 INPUT FILE ASSIGNMENTS

	CHANNEL	1	2	3	4	5	6	7	8	9	10	11	12	13	14
"I"	U	Ø1	Ø2			Ø4									
	L												Ø44 Ø46 Ø45		
"J"	U	Ø5	Ø6			Ø8									
	L														

TOTAL NUMBER OF DETECTOR CARDS(2-CHANNEL) = (1)

2070 OUTPUT FILE ASSIGNMENTS

FR1	PH 1	PH 2	2 PED	PH 3	PH 4	4 PED	MONITOR
	RL	R			R	DW	
FR2	YL	Y	PH 1 L		Y		
	FYL	G			G	W	
FR3	PH 5	PH 6	6 PED	PH 7	PH 8	8 PED	
	RL	R		RL	R		
FR4	YL	Y	PH 5 L	YL	Y		
	FYL	G		FYL	G		

* NOTE: LEFT TURN "L" SHALL BE WIRED INTO PEDESTRIAN AMBER IN LOAD SWITCH

MO 43 (MAIN ST)
AND 41ST ST
SIGNAL PLAN
SHEET 22 OF 60

D-37C

CLAIRE E. MCKINNEY NUMBER PE-2022028959
STATE OF MISSOURI PROFESSIONAL ENGINEER

DATE PREPARED 2/26/2026
ROUTE VAR. | STATE MO
DISTRICT SW | SHEET NO. 54
COUNTY VARIOUS
JOB NO. J7P3529
CONTRACT ID.
PROJECT NO.
BRIDGE NO.

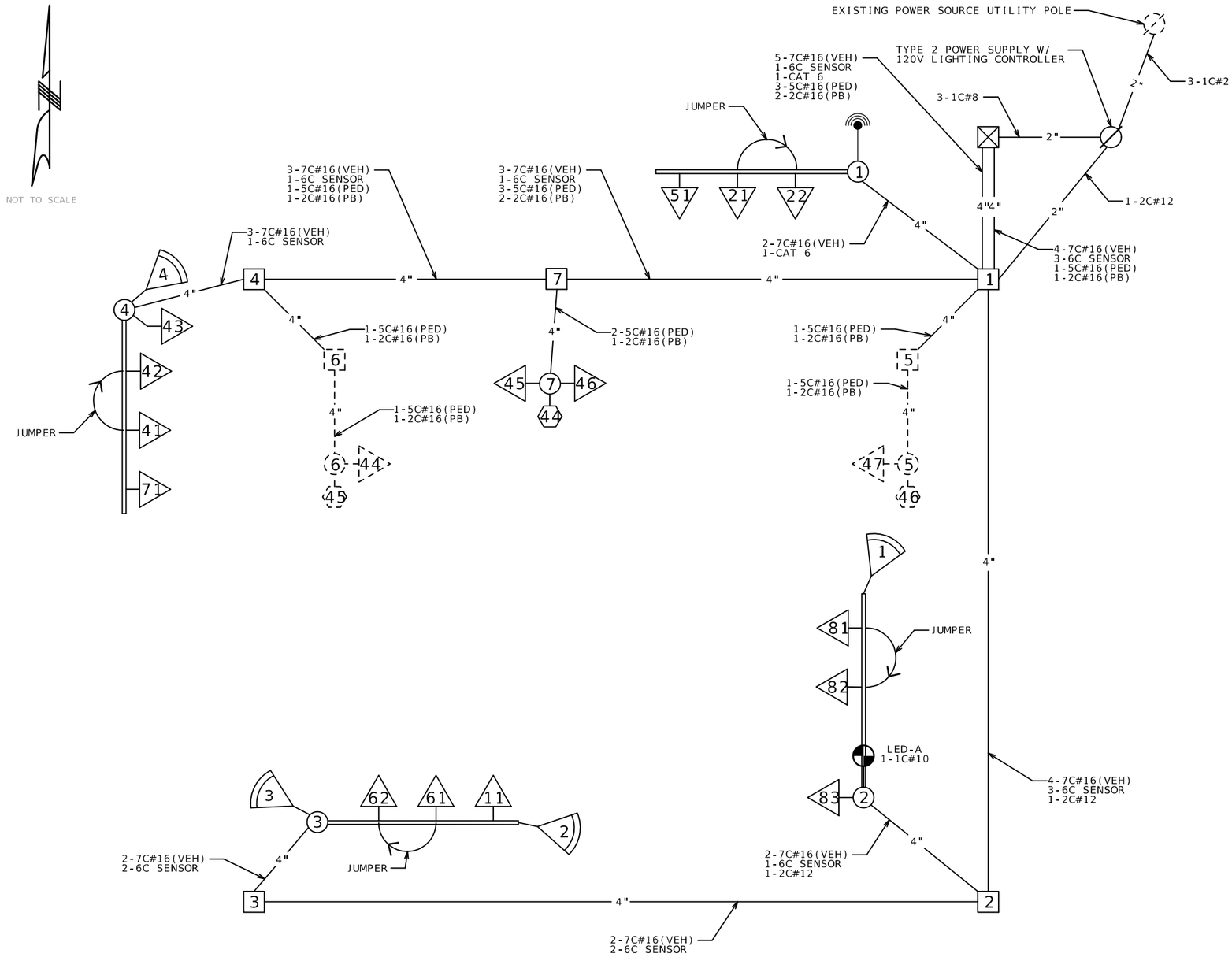
DESCRIPTION | DATE

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

GARVER, LLC.
7509 NW TIFFANY SPRINGS
PARKWAY, SUITE 200
KANSAS CITY, MO 64153
PHONE: (816) 298-6465
CERTIFICATE OF AUTHORITY
NO. 2008013090

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)
- PULL BOX WITH NUMBER
- POST WITH NUMBER
- POST WITH MAST ARM
- POST WITH MAST ARM AND LUMINAIRE
- DETECTOR WITH NUMBER
- SIGNAL HEAD WITH NUMBER
- SIGNAL CONTROLLER
- POWER SUPPLY
- LIGHTING CONTROLLER
- RADAR DETECTOR
- WIRELESS RADIO
- 3" EXISTING CONDUIT CONTAINING CABLE WITH SIZE
- EXISTING PULL BOX WITH NUMBER
- EXISTING POST WITH NUMBER
- EXISTING SIGNAL HEAD WITH NUMBER

MO 43 (MAIN ST)
AND 41ST ST
SIGNAL PLAN
SHEET 23 OF 60

D-37D

CLAIRE E. MCKINNEY NUMBER PE-2022028959 STATE OF MISSOURI PROFESSIONAL ENGINEER

DATE PREPARED 2/26/2026

ROUTE	STATE
VAR.	MO
DISTRICT	SHEET NO.
SW	55

COUNTY: VARIOUS

JOB NO.: J7P3529

CONTRACT ID.:

PROJECT NO.:

BRIDGE NO.:

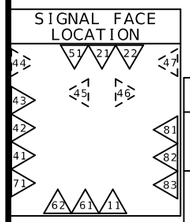
DESCRIPTION	DATE

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

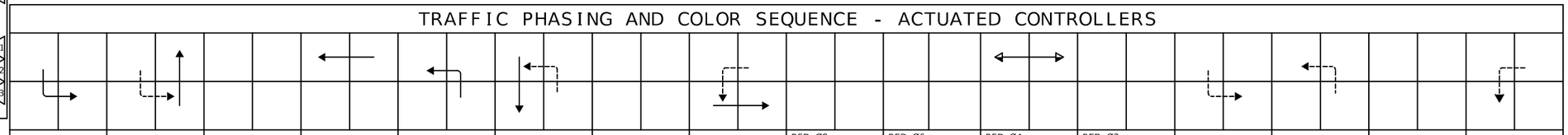
GARVER, LLC.
7509 NW TIFFANY SPRINGS
PARKWAY, SUITE 200
KANSAS CITY, MO 64153
PHONE: (816) 298-6465
CERTIFICATE OF AUTHORITY
NO. 2008013090

EFFECTIVE: 12-01-2017

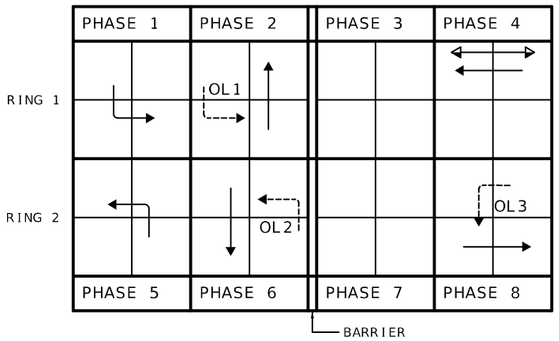
SIGNAL FACE LOCATION



TRAFFIC PHASING AND COLOR SEQUENCE - ACTUATED CONTROLLERS



	PHASE 1	PHASE 2	PHASE 3	PHASE 4	PHASE 5	PHASE 6	PHASE 7	PHASE 8	PED Ø8 OVERLAP	PED Ø6 OVERLAP	PED Ø4 OVERLAP	PED Ø2 OVERLAP	OVERLAP 1	OVERLAP 2	OVERLAP 3	OVERLAP 4	
FACE NUMBERS	11	21 22		41 43 71 42	51	61 62		81 83 82			44 46 45 47		11	51		71	FACE NUMBERS
SIGNAL INDICATIONS R	RL	R		R R RL	RL	R		R R			DW DW						R
SIGNAL INDICATIONS Y	YL	Y		Y Y YL	YL	Y		Y Y			FDW FDW						Y
SIGNAL INDICATIONS FYA													FYL	FYL		FYL	FYA
SIGNAL INDICATIONS G	L	G		G G	L	G		G G			W W						G
DETECTOR ASSIGNMENTS																	DETECTOR ASSIGNMENTS
DETECTOR ASSIGNMENTS (PEDS. ONLY)																	
OVERLAP PARENT PHASES													2	6		8	



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	
ALL APPROACHES	FR

CONTROLLER TYPE	2070

TRAFFIC SIGNAL CONTROL OPERATION

MO 43 (MAIN ST)
AND 41ST ST
SIGNAL PLAN
SHEET 24 OF 60

D-38A

CLAIRE E. MCKINNEY NUMBER PE-2022028959
STATE OF MISSOURI PROFESSIONAL ENGINEER

DATE PREPARED 2/26/2026

ROUTE	STATE
VAR.	MO
DISTRICT	SHEET NO.
SW	56

COUNTY: VARIOUS
JOB NO.: J7P3529
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)

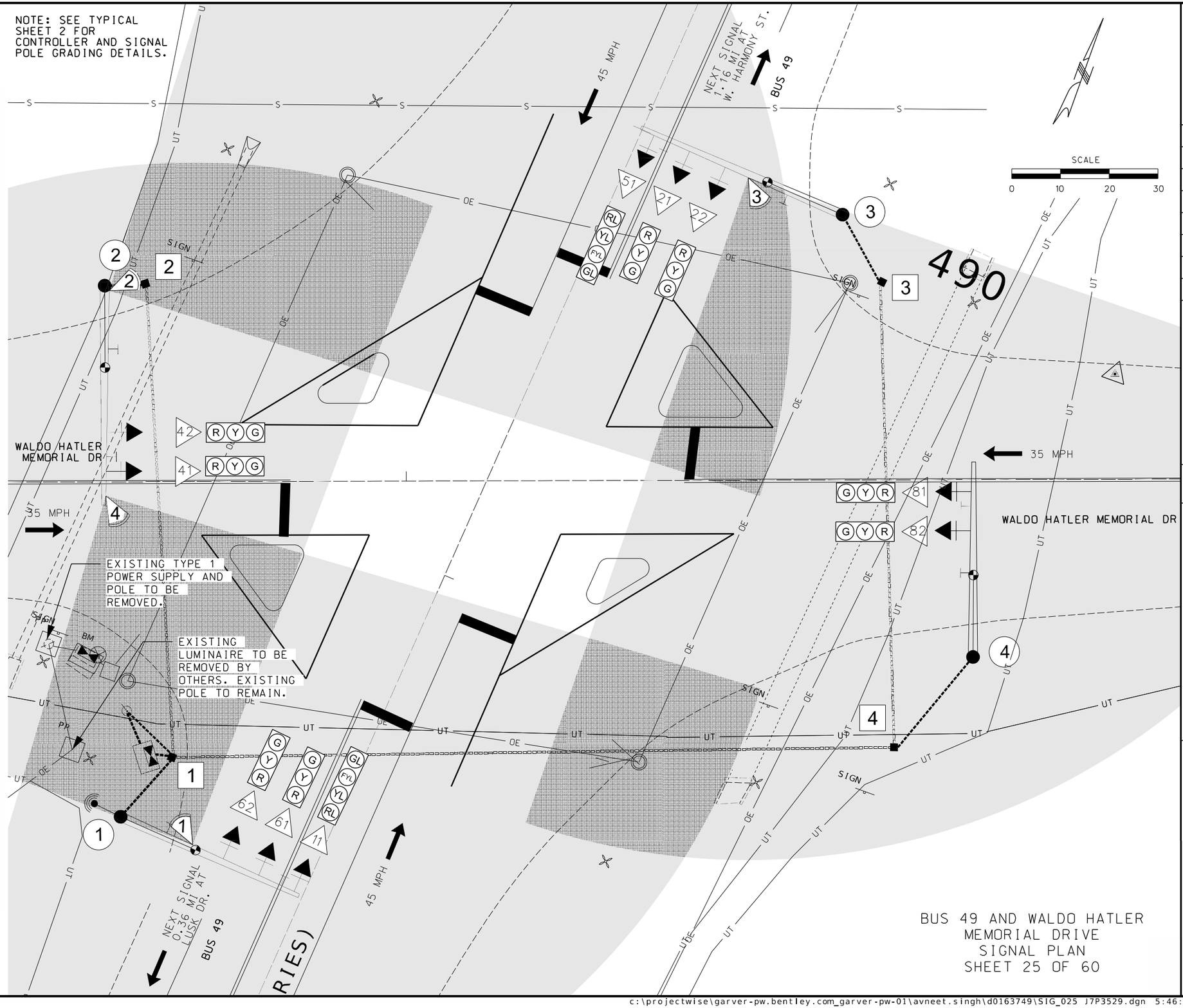
GARVER, LLC.
7509 NW TIFFANY SPRINGS PARKWAY, SUITE 200
KANSAS CITY, MO 64153
PHONE: (816) 298-6465
CERTIFICATE OF AUTHORITY NO. 2008013090

NOTE: SEE TYPICAL SHEET 2 FOR CONTROLLER AND SIGNAL POLE GRADING DETAILS.

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
- RADAR DETECTOR
- WIRELESS RADIO (NEW)
- 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
- MAST ARM (EXISTING)
- PULL BOX (EXISTING)
- DETECTOR WITH NUMBER
- 6 X 6 LOOP DETECTOR
- 6 X 15 LOOP DETECTOR
- 30 X 6 DETECTOR ZONE
- 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
- LUMINAIRE - LED A

NOTE: CONTRACTOR TO ENSURE CABINET IS INSTALLED SO THE DOORS OPEN AWAY FROM ROADWAY.



BUS 49 AND WALDO HATLER MEMORIAL DRIVE SIGNAL PLAN
SHEET 25 OF 60

CLAIRE E. MCKINNEY NUMBER PE-2022028959 STATE OF MISSOURI PROFESSIONAL ENGINEER

DATE PREPARED	4/6/2026
ROUTE	VAR.
STATE	MO
DISTRICT	SW
SHEET NO.	57
COUNTY	VARIOUS
JOB NO.	J7P3529
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)

GARVER, LLC.
7509 NW TIFFANY SPRINGS PARKWAY, SUITE 200
KANSAS CITY, MO 64153
PHONE: (816) 298-6465
CERTIFICATE OF AUTHORITY NO. 2008013090

c:\projectwise\garver-pw.bentley.com_garver-pw-01\avneet.singh\d0163749\SIG_025 J7P3529.dgn 5:46:53 PM 4/6/2026

EFFECTIVE: 07-01-2018

| POST NUMBER | PULL BOX NUMBER | LOCATION: APPROACH | LOCATION: STATION | LOCATION: OFFSET | BASE: A: 9 | A: 9.5 | A: 10 | A: 10.5 | A: 11 | A: 12 | BASE: F: 9 | F: 9.5 | F: 10 | F: 10.5 | F: 11 | ■ REMOTE POST BASE | C | CONCRETE** (CU. YDS.) | PULL BOX: PREFORMED: CLASS 1 | CLASS 2 | CLASS 3 | CLASS 5 | CONCRETE: DOUBLE, TYPE A | STANDARD | DRAIN TYPE*: I | II: A | B | C | TOP MOUNT POST: 8 FT. | 15 FT. | ■ REMOTE POST BASE | TYPE C & CL: ARM LENGTH: 40' | 45' | | | 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

CONDUIT (WITH #14 TRACER WIRE)

FROM	TO	CENTER TO CENTER DISTANCE	TRENCH 1"	TRENCH 1.25"	TRENCH 2"	TRENCH 4"	TRENCH 3.5"	PUSHED 2"	PUSHED 2.5"	PUSHED 4"	MEDIAN 2"	MEDIAN 3"	MEDIAN 4"	ON STRUCTURE 2"	ON STRUCTURE 3"	ON STRUCTURE 1"	REMARKS
☒	∅	13			21												
☒	1	5				16											2 CONDUITS
1	(1)	16				19											
1	2	97								95							
2	(2)	8				11											
4	3	95								93							
3	(3)	16				19											
1	4	148								146							
4	(4)	25				28											
∅	1	14			17												
SUBTOTALS					38	93				334							
TOTALS					38	93				334							

CABLE

FROM	TO	CENTER TO CENTER DISTANCE	POWER 1c#8	POWER ** 1c#2	CONTROL 2c#16	CONTROL 5c#16	CONTROL 7c#16	CONTROL 3c#16	* RADAR DETECTION SENSOR 6c	LUMINAIRE CONTROL 2c#12	LUMINAIRE POLE & BRACKET 1c#10	DETECTOR 1c#14 IN DUCT	DETECTOR 2c#14 LEAD-IN CABLE	FIBER SINGLE-MODE	FIBER MULTI-MODE	RADIO * CAT 6	REMARKS
☒	∅	13	87														
☒	1	21					96										
☒	61	21					96										
61	62	8					11										JUMPER
☒	41	110					196										
41	42	8					11										JUMPER
☒	51	264					356										
☒	21	264					356										
21	22	8					11										JUMPER
☒	81	178					259										
81	82	8					11										JUMPER
☒	(1)	21							109								
☒	(2)	110							164								
☒	(3)	264							369								
☒	(4)	110							209								
☒	RAD.	21														109	
∅	(1)	30								65	90						LUMINAIRE
1	(2)	105								130	90						LUMINAIRE
4	(3)	111								134	90						LUMINAIRE
1	(4)	173								363	90						LUMINAIRE
SUBTOTALS			87				1403		851	692	360					109	
TOTALS			90				1400		850	690	360					110	

* ITEMS FOR WHICH SEPARATE PAYMENT WILL NOT BE MADE

** CONDUIT AND CABLE BETWEEN POWER COMPANY SERVICE POLE AND POWER SUPPLY INCLUDED IN BID ITEM FOR POWER SUPPLY ASSEMBLY

BUS 49 AND WALDO
HATLER MEMORIAL DRIVE
SIGNAL PLAN
SHEET 27 OF 60

D-37B

STATE OF MISSOURI
CLAIRE E. MCKINNEY
NUMBER PE-2022028959
PROFESSIONAL ENGINEER

DATE PREPARED 4/6/2026
ROUTE VAR. | STATE MO
DISTRICT SW | SHEET NO. 59
COUNTY VARIOUS
JOB NO. J7P3529
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)

GARVER, LLC.
7509 NW TIFFANY SPRINGS
PARKWAY, SUITE 200
KANSAS CITY, MO 64153
PHONE: (816) 298-6465
CERTIFICATE OF AUTHORITY
NO. 2008013090

c:\projectwise\garver-pw.bentley.com_garver-pw-01\avneet.singh\d0163749\SIG_027.dgn 4/6/2026

EFFECTIVE: 04-01-2018

CONTROLLER ASSEMBLY AND AUXILIARY EQUIPMENT

LOCATION			SYSTEM MASTER (CLOSED LOOP)		ACTUATED		ON-OFF SWITCH TYPE		COORDINATION AND INTERFACE						TIME CLOCK	NEMA CABINET TYPE			2070 CABINET TYPE		2070 SOFTWARE	
									12C/7C HARDWARE (1)		TIME BASE	CLOSED LOOP		FIBER								
APPROACH	STATION	OFFSET	NEMA	2070	NEMA	2070	I	II	MASTER	LOCAL		NEMA	2070			E	EV	DOUBLE	332	336S	OMNI EX	WAPITI
BUS 49	491+58.29	40.11'RT.				1													1		1	

POWER SUPPLY

LOCATION			POWER SUPPLY ASSEMBLY		CIRCUIT BREAKER TRIP RATING				LIGHTING CONTROL (ON POWER SUPPLY)		SERVICE POLE	
					CONTROLLER		POWER SUPPLY DISCONNECT					
			DRAWING		AUXILIARY	CONT &	MAIN BREAKER		120 VOLT	MAIN	CONTRACT	UTILITY
APPROACH	STATION	OFFSET	902.15	DRAWING	BREAKER	SIGNAL LAMPS	SIGNALS	LIGHTING	CNTRL CABINET	BREAKER	FURNISH	COMPANY
BUS 49	491+51.87	48.35'RT.	Type 2		15 Amps	40 Amps	40 Amps	15 Amps	1	15 Amps		

SIGNAL SIGNS

QTY	MUTCD SIGN NUMBER	SIZE	AREA	SIGN TOTAL AREA ITEM NO. 90208.33	SIGNAL SIGN MOUNTING HARDWIRE ITEM NO. 90208.34
		INCHES	SQ.FT.	SQ.FT.	EA.
2	R10-12	30 X 36	7.5	15.0	2
2	R10-27A	30 X 36	7.5	15.0	2
2	D3-1	144 X 18	18.00	36.0	2
2	D3-1	78 X 18	9.75	19.5	2
			SUBTOTAL	85.5	8
			TOTAL	85.5	8

DETECTOR SCHEDULE

DETECTOR NUMBER	APPROACH	TYPE				
		APS PUSH BUTTON	INDUCTION LOOP (2)			RADAR *
			STANDARD	DELAY/ EXTEND	CALL UNIT	
1	EB					1
2	SB					1
3	WB					1
4	NB					1
	SUBTOTALS					4
	TOTALS					4

* 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.

CONTRACTOR FURNISHED, CONTRACTOR INSTALLED RADAR DETECTION SYSTEM

1 EACH

2070 INPUT FILE ASSIGNMENTS

	CHANNEL	1	2	3	4	5	6	7	8	9	10	11	12	13	14
"I"	U	Ø1	Ø2			Ø4									
	L														
"J"	U	Ø5	Ø6			Ø8									
	L														

TOTAL NUMBER OF DETECTOR CARDS(2-CHANNEL) = (4)

2070 OUTPUT FILE ASSIGNMENTS

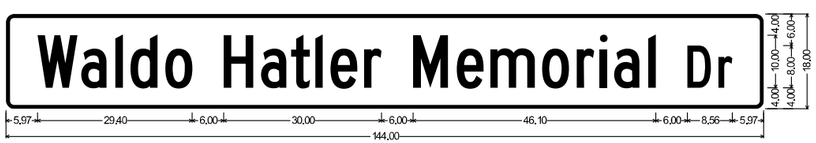
FR1	PH 1	PH 2	2 PED	PH 3	PH 4	4 PED	MONITOR
	RL	R			R		
FR2	YL	Y	PH 1 L		Y		
	FYL	G			G		
FR3	PH 5	PH 6	6 PED	PH 7	PH 8	8 PED	
	RL	R			R		
FR4	YL	Y	PH 5 L		Y		
	FYL	G			G		

* NOTE: LEFT TURN "L" SHALL BE WIRED INTO PEDESTRIAN AMBER IN LOAD SWITCH



D3-1 SH-FLAT SHEET;
1,50" Radius, 0,75" Border, White on Green;
"Business 49", C 2K;
Table of letter and object lefts

B	u	s	i	n	e	s	s	4	9
7,60	14,60	21,00	26,40	29,60	36,10	42,00	46,90	57,10	64,80



D3-1 SH-FLAT SHEET;
1,50" Radius, 0,75" Border, White on Green;
"Waldo Hatler Memorial", C 2K; "Dr", C 2K;
Table of letter and object lefts

W	a	l	d	o	H	a	t	l	e	r	M	e	m	o	r	i	a	l	D	r
5,97	14,27	20,77	23,67	30,27	41,37	48,47	54,17	58,77	61,67	68,07	77,37	85,67	92,07	101,87	108,47	112,87	115,57	122,07	129,47	135,39

BUS 49 AND WALDO
HATLER MEMORIAL DRIVE
SIGNAL PLAN
SHEET 28 OF 60

D-37C

CLAIRE E. MCKINNEY NUMBER PE-2022028959 STATE OF MISSOURI PROFESSIONAL ENGINEER

DATE PREPARED 2/26/2026
ROUTE VAR. | STATE MO
DISTRICT SW | SHEET NO. 60
COUNTY VARIOUS
JOB NO. J7P3529
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)

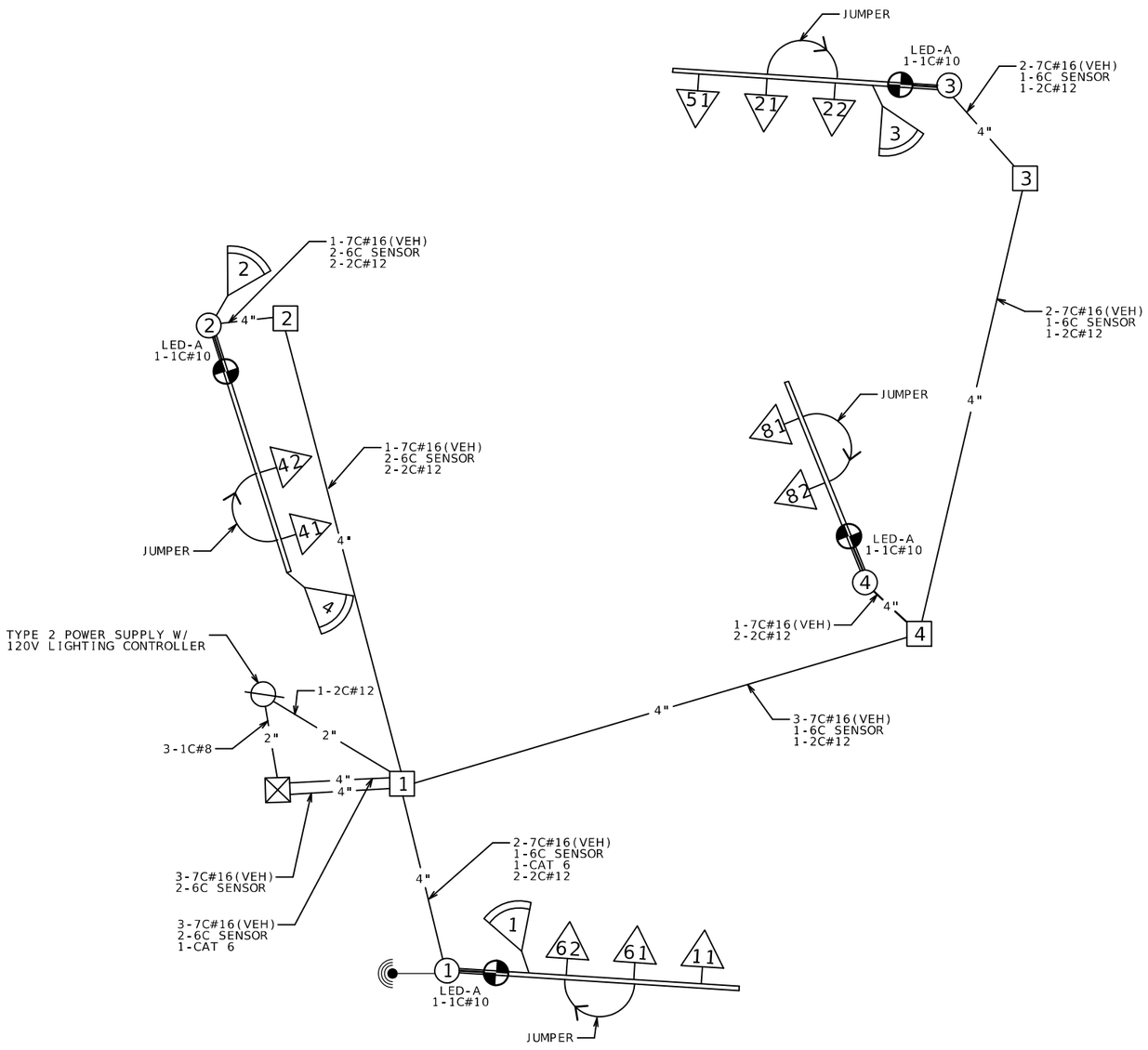
GARVER, LLC.
7509 NW TIFFANY SPRINGS
PARKWAY, SUITE 200
KANSAS CITY, MO 64153
PHONE: (816) 298-6465
CERTIFICATE OF AUTHORITY
NO. 2008013090

c:\projectwise\garver-pw.bentley.com_garver-pw-01\avneet.singh\d0163749\SIG_028.dgn 1:28:23 PM 2/26/2026

EFFECTIVE: 12-01-2017

WIRING DIAGRAM

NOT TO SCALE



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
	RADAR DETECTOR
	WIRELESS RADIO

BUS 49 AND WALDO
HATLER MEMORIAL DRIVE
SIGNAL PLAN
SHEET 29 OF 60

D-37D

STATE OF MISSOURI
CLAIRE E. MCKINNEY
NUMBER PE-2022028959
PROFESSIONAL ENGINEER

DATE PREPARED
2/26/2026

ROUTE	STATE
VAR.	MO
DISTRICT	SHEET NO.
SW	61

COUNTY
VARIOUS

JOB NO.
J7P3529

CONTRACT ID.

PROJECT NO.

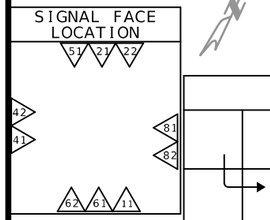
BRIDGE NO.

DESCRIPTION | DATE

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

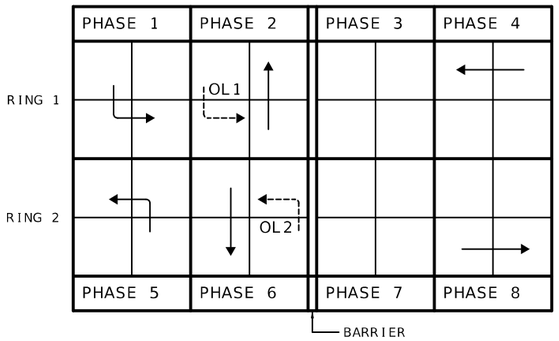
GARVER, LLC.
7509 NW TIFFANY SPRINGS
PARKWAY, SUITE 200
KANSAS CITY, MO 64153
PHONE: (816) 298-6465
CERTIFICATE OF AUTHORITY
NO. 2008013090

EFFECTIVE: 12-01-2017



TRAFFIC PHASING AND COLOR SEQUENCE - ACTUATED CONTROLLERS

		PHASE 1	PHASE 2	PHASE 3	PHASE 4	PHASE 5	PHASE 6	PHASE 7	PHASE 8	OVERLAP 1	OVERLAP 2	
FACE NUMBERS		11	21		41	51	61		81	11	51	FACE NUMBERS
			22		42		62		82			
SIGNAL INDICATIONS	R	RL	R		R	RL	R		R			R
	Y	YL	Y		Y	YL	Y		Y			Y
	FYA									FYL	FYL	FYA
	G	L	G		G	L	G		G			G
DETECTOR ASSIGNMENTS												DETECTOR ASSIGNMENTS
DETECTOR ASSIGNMENTS (PEDS. ONLY)												
OVERLAP PARENT PHASES										2	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	
ALL APPROACHES	FR

CONTROLLER TYPE	2070

TRAFFIC SIGNAL CONTROL OPERATION

BUS 49 AND WALDO
HATLER MEMORIAL DRIVE
SIGNAL PLAN
SHEET 30 OF 60

D-38A

PROFESSIONAL ENGINEER — STATE OF MISSOURI
CLAIRE E. MCKINNEY
NUMBER PE-2022028959

DATE PREPARED: 2/26/2026
ROUTE: VAR. | STATE: MO
DISTRICT: SW | SHEET NO.: 62
COUNTY: VARIOUS
JOB NO.: J7P3529
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)

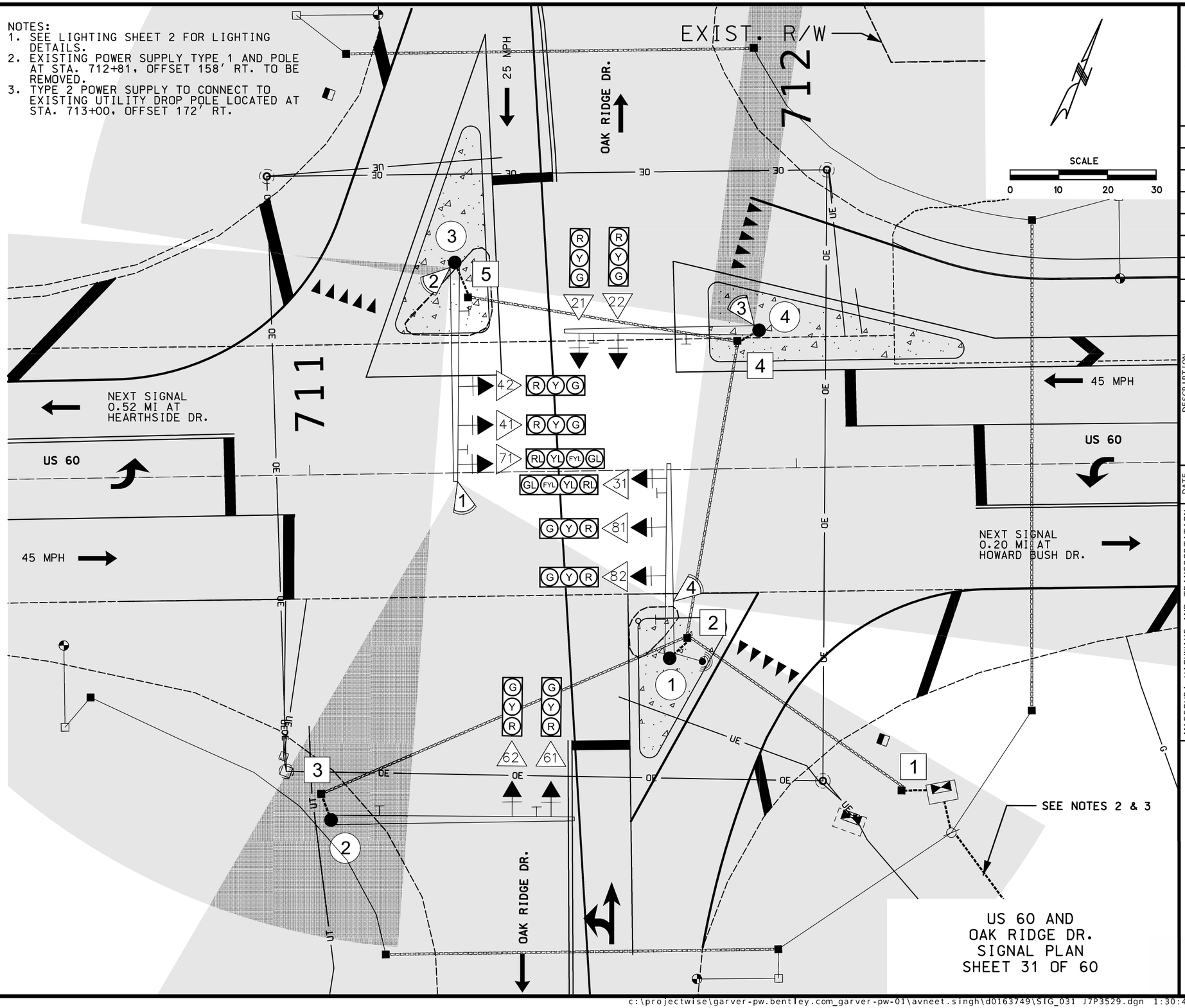
GARVER, LLC.
7509 NW TIFFANY SPRINGS PARKWAY, SUITE 200
KANSAS CITY, MO 64153
PHONE: (816) 298-6465
CERTIFICATE OF AUTHORITY NO. 2008013090

NOTES:
1. SEE LIGHTING SHEET 2 FOR LIGHTING DETAILS.
2. EXISTING POWER SUPPLY TYPE 1 AND POLE AT STA. 712+81, OFFSET 158' RT. TO BE REMOVED.
3. TYPE 2 POWER SUPPLY TO CONNECT TO EXISTING UTILITY DROP POLE LOCATED AT STA. 713+00, OFFSET 172' RT.

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
- RADAR DETECTOR
- **WIRELESS RADIO (NEW)**
- 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
- MAST ARM (EXISTING)
- PULL BOX (EXISTING)
- DETECTOR WITH NUMBER
- 6 X 6 LOOP DETECTOR
- 6 X 15 LOOP DETECTOR
- 30 X 6 DETECTOR ZONE
- 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
- LUMINAIRE - LED A

NOTE: CONTRACTOR TO ENSURE CABINET IS INSTALLED SO THE DOORS OPEN AWAY FROM ROADWAY.



CLAIRE E. MCKINNEY NUMBER PE-2022028959 STATE OF MISSOURI PROFESSIONAL ENGINEER

DATE PREPARED 2/26/2026

ROUTE	STATE
VAR.	MO
DISTRICT	SHEET NO.
SW	63

COUNTY: VARIOUS
JOB NO.: J7P3529
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)

GARVER, LLC.
7509 NW TIFFANY SPRINGS PARKWAY, SUITE 200
KANSAS CITY, MO 64153
PHONE: (816) 298-6465
CERTIFICATE OF AUTHORITY NO. 2008013090

EFFECTIVE: 07-01-2018

| POST NUMBER | PULL BOX NUMBER | LOCATION: APPROACH | LOCATION: STATION | LOCATION: OFFSET | BASE: A: 9 | A: 9.5 | A: 10 | A: 10.5 | A: 11 | A: 12 | F: 9 | F: 9.5 | F: 10 | F: 10.5 | F: 11 | ■ REMOTE POST BASE | C | CONCRETE** (CU. YDS.) | PULL BOX: PREFORMED CONCRETE: CLASS 1 | CLASS 2 | CLASS 3 | CLASS 5 | DOUBLE, TYPE A | STANDARD | DRAIN TYPE*: I | II: A | B | C | TOP MOUNT POST: 8 FT. | 15 FT. | ■ REMOTE POST BASE | POST: TYPE C & CL: ARM LENGTH: 40' | 45' | 50' | A | 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

CONDUIT (WITH #14 TRACER WIRE)

FROM	TO	CENTER TO CENTER DISTANCE	TRENCH 1"	TRENCH 1.25"	TRENCH 2"	TRENCH 4"	TRENCH 3.5"	PUSHED 2"	PUSHED 2.5"	PUSHED 4"	MEDIAN 2"	MEDIAN 3"	MEDIAN 4"	ON STRUCTURE 2"	ON STRUCTURE 3"	ON STRUCTURE 1"	REMARKS
Ø	P.S.	118			122												POWER SOURCE
☒	Ø	10			18												
☒	1	8				22											2 CONDUITS
1	②	54								104							2 CONDUITS
2	1	6				9											
2	③	82								80							
3	2	6				9											
2	④	62								60							
4	4	5				8											
4	⑤	56								54							
5	3	8				11											
SUBTOTALS					140	59				298							
TOTALS					140	59				298							

CABLE

FROM	TO	CENTER TO CENTER DISTANCE	POWER 1c#8	POWER 1c#2	CONTROL 2c#16	CONTROL 5c#16	CONTROL 7c#16	CONTROL 3c#16	* RADAR DETECTION SENSOR 6c	LUMINAIRE CONTROL 2c#12	LUMINAIRE POLE & BRACKET 1c#10	DETECTOR 1c#14 IN DUCT	DETECTOR 2c#14 LEAD-IN CABLE	FIBER SINGLE-MODE	FIBER MULTI-MODE	RADIO * CAT 6	REMARKS
Ø	P.S.	118		468													POWER SOURCE
☒	Ø	10	78														
☒	3△	68					149										
☒	6△	68					149										
8△	8△	10					13										JUMPER
☒	6△	150					247										
6△	6△	8					11										JUMPER
☒	7△	188					286										
☒	4△	188					286										
4△	4△	8					11										JUMPER
☒	2△	129					216										
2△	2△	8					11										JUMPER
☒	◁1	188							299								
☒	◁2	188							254								
☒	◁3	129							189								
☒	◁4	68							162								
☒	RAD.	68														122	
SUBTOTALS			78	468			1379		904							122	
TOTALS			80	470			1380		900							120	

* ITEMS FOR WHICH SEPARATE PAYMENT WILL NOT BE MADE

US 60 AND
OAK RIDGE DR
SIGNAL PLAN
SHEET 33 OF 60

D-37B

CLAIRE E. MCKINNEY NUMBER PE-2022028959 STATE OF MISSOURI PROFESSIONAL ENGINEER

DATE PREPARED 2/26/2026

ROUTE VAR. | STATE MO

DISTRICT SW | SHEET NO. 65

COUNTY VARIOUS

JOB NO. J7P3529

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)

GARVER, LLC.
7509 NW TIFFANY SPRINGS
PARKWAY, SUITE 200
KANSAS CITY, MO 64153
PHONE: (816) 298-6465
CERTIFICATE OF AUTHORITY
NO. 2008013090

GARVER

c:\projectwise\garver-pw.bentley.com_garver-pw-01\avneet.singh\d0163749\SIG_033.dgn 1:33:02 PM 2/26/2026

EFFECTIVE: 04-01-2018

CONTROLLER ASSEMBLY AND AUXILIARY EQUIPMENT

LOCATION			SYSTEM MASTER (CLOSED LOOP)		ACTUATED		ON-OFF SWITCH TYPE		COORDINATION AND INTERFACE						TIME CLOCK	NEMA CABINET TYPE			2070 CABINET TYPE		2070 SOFTWARE	
									12C/7C HARDWARE (1)		TIME BASE	CLOSED LOOP		FIBER								
APPROACH	STATION	OFFSET	NEMA	2070	NEMA	2070	I	II	MASTER	LOCAL		NEMA	2070			E	EV	DOUBLE	332	336S	OMNI EX	WAPITI
US 60	712+28.75	66.09'RT.				1													1		1	

POWER SUPPLY

LOCATION			POWER SUPPLY ASSEMBLY		CIRCUIT BREAKER TRIP RATING				LIGHTING CONTROL (ON POWER SUPPLY)		SERVICE POLE	
					CONTROLLER		POWER SUPPLY DISCONNECT					
			DRAWING		AUXILIARY	CONT &	MAIN BREAKER		120 VOLT	MAIN	CONTRACT	UTILITY
APPROACH	STATION	OFFSET	902.15	DRAWING	BREAKER	SIGNAL LAMPS	SIGNALS	LIGHTING	CNTRL CABINET	BREAKER	FURNISH	COMPANY
US 60	712+30.71	75.45'RT.	Type 2		15 Amps	40 Amps	40 Amps	15 Amps	1	15 Amps		

SIGNAL SIGNS

QTY	MUTCD SIGN NUMBER	SIZE	AREA	SIGN TOTAL AREA ITEM NO. 90208.33	SIGNAL SIGN MOUNTING HARDWIRE ITEM NO. 90208.34
		INCHES	SQ.FT.	SQ.FT.	EA.
2	R10-27A	30 X 36	7.5	15.0	2
2	D3-1	48 X 18	6.00	12.0	2
2	D3-1	78 X 18	9.75	19.5	2
2	R10-12	30 X 36	7.5	15.0	2
			SUBTOTAL	61.5	8
			TOTAL	61.5	8

DETECTOR SCHEDULE

DETECTOR NUMBER	APPROACH	TYPE				
		APS PUSH BUTTON	INDUCTION LOOP (2)			RADAR *
			STANDARD	DELAY/ EXTEND	CALL UNIT	
1	NB					1
2	EB					1
3	SB					1
4	WB					1
	SUBTOTALS					4
	TOTALS					4

* ITEMS FOR WHICH SEPARATE PAYMENT WILL NOT BE MADE.

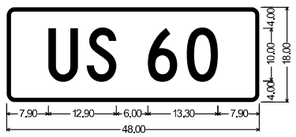
*** USE D3-1 FOR ONE LINE. USE D3-1B FOR TWO LINE.

(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.

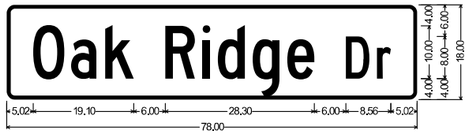
CONTRACTOR FURNISHED, CONTRACTOR INSTALLED
RADAR DETECTION SYSTEM

1 EACH



D3-1 SH-FLAT SHEET:
1,50" Radius, 0,75" Border, White on Green;
"US 60", C 2K;
Table of letter and otject lefts

U	S	6	0
7,90	15,20	26,80	34,20



D3-1 SH-FLAT SHEET:
1,50" Radius, 0,75" Border, White on Green;
"Oak Ridge", C 2K; "Dr", C 2K;
Table of letter and otject lefts

O	a	k	R	i	d	g	e	D	r
5,02	12,22	18,72	30,12	37,22	40,12	46,72	53,32	64,42	70,34

2070 INPUT FILE ASSIGNMENTS

	CHANNEL	1	2	3	4	5	6	7	8	9	10	11	12	13	14
"I"	U		Ø2		Ø3	Ø4									
	L														
"J"	U		Ø6		Ø7	Ø8									
	L														

TOTAL NUMBER OF DETECTOR CARDS(2-CHANNEL) = (4)

2070 OUTPUT FILE ASSIGNMENTS

FR1	PH 1	PH 2	2 PED	PH 3	PH 4	4 PED	MONITOR
		R		RL	R		
FR2		Y		YL	Y	PH 3 L	
		G		FYL	G		
FR3	PH 5	PH 6	6 PED	PH 7	PH 8	8 PED	
		R		RL	R		
FR4		Y		YL	Y	PH 7 L	
		G		FYL	G		

* NOTE: LEFT TURN "L" SHALL BE WIRED INTO PEDESTRIAN AMBER IN LOAD SWITCH

US 60 AND
OAK RIDGE DR
SIGNAL PLAN
SHEET 34 OF 60

D-37C

STATE OF MISSOURI
CLAIRE E. MCKINNEY
NUMBER PE-2022028959
PROFESSIONAL ENGINEER

DATE PREPARED
2/26/2026

ROUTE	STATE
VAR.	MO

DISTRICT	SHEET NO.
SW	66

COUNTY
VARIOUS

JOB NO.
J7P3529

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)

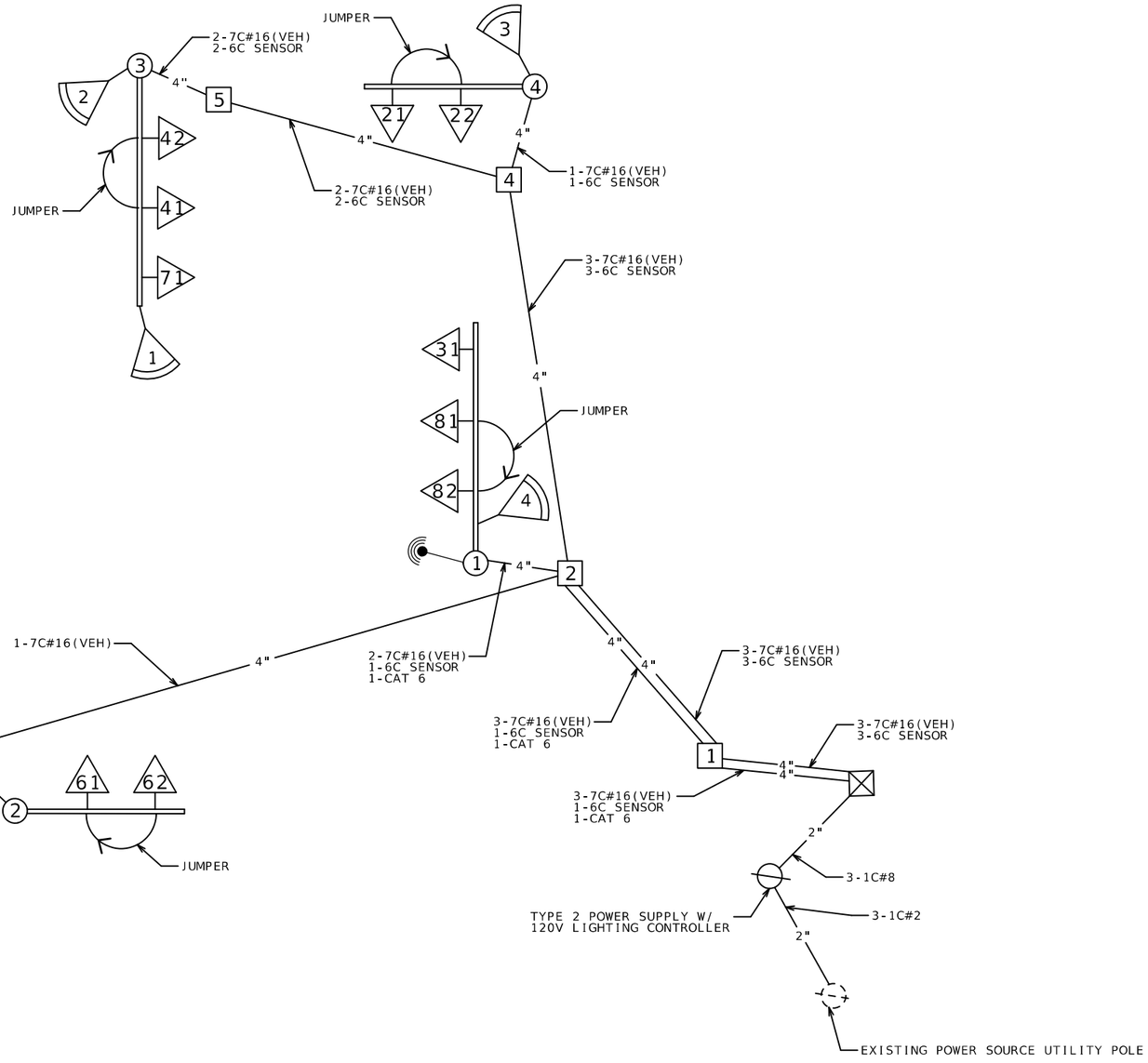
GARVER, LLC.
7509 NW TIFFANY SPRINGS
PARKWAY, SUITE 200
KANSAS CITY, MO 64153
PHONE: (816) 298-6465
CERTIFICATE OF AUTHORITY
NO. 2008013090

GARVER

EFFECTIVE: 12-01-2017

WIRING DIAGRAM

NOT TO SCALE



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
	RADAR DETECTOR
	WIRELESS RADIO

US 60 AND
OAK RIDGE DR
SIGNAL PLAN
SHEET 35 OF 60

D-37D

STATE OF MISSOURI
CLAIRE E. MCKINNEY
NUMBER PE-2022028959
PROFESSIONAL ENGINEER

DATE PREPARED
2/26/2026

ROUTE	STATE
VAR.	MO
DISTRICT	SHEET NO.
SW	67

COUNTY
VARIOUS

JOB NO.
J7P3529

CONTRACT ID.

PROJECT NO.

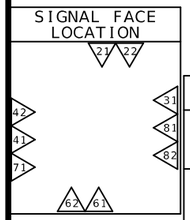
BRIDGE NO.

DESCRIPTION	DATE

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

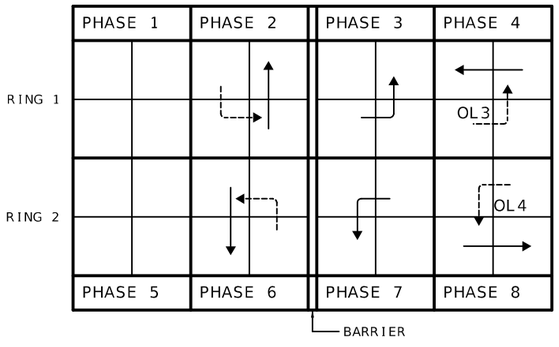
GARVER, LLC.
7509 NW TIFFANY SPRINGS
PARKWAY, SUITE 200
KANSAS CITY, MO 64153
PHONE: (816) 298-6465
CERTIFICATE OF AUTHORITY
NO. 2008013090

EFFECTIVE: 12-01-2017



TRAFFIC PHASING AND COLOR SEQUENCE - ACTUATED CONTROLLERS

	PHASE 1	PHASE 2	PHASE 3	PHASE 4	PHASE 5	PHASE 6	PHASE 7	PHASE 8	PED Ø8 OVERLAP	PED Ø6 OVERLAP	PED Ø4 OVERLAP	PED Ø2 OVERLAP	OVERLAP 1	OVERLAP 2	OVERLAP 3	OVERLAP 4	
FACE NUMBERS		21	31	41		61	71	81							31	71	FACE NUMBERS
		22		42		62		82									
SIGNAL INDICATIONS R		R	RL	R		R	RL	R									R
SIGNAL INDICATIONS Y		Y	YL	Y		Y	YL	Y									Y
SIGNAL INDICATIONS FYA															FYL	FYL	FYA
SIGNAL INDICATIONS G		G	GL	G		G	G	G									G
DETECTOR ASSIGNMENTS																	DETECTOR ASSIGNMENTS
DETECTOR ASSIGNMENTS (PEDS. ONLY)																	
OVERLAP PARENT PHASES															4	8	



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	
ALL APPROACHES	FR

CONTROLLER TYPE	2070

TRAFFIC SIGNAL CONTROL OPERATION

US 60 AND OAK RIDGE DR
SIGNAL PLAN
SHEET 36 OF 60

D-38A

CLAIRE E. MCKINNEY NUMBER PE-2022028959 PROFESSIONAL ENGINEER STATE OF MISSOURI

DATE PREPARED: 2/26/2026
ROUTE: VAR. STATE: MO
DISTRICT: SW SHEET NO.: 68
COUNTY: VARIOUS
JOB NO.: J7P3529
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)

GARVER, LLC.
7509 NW TIFFANY SPRINGS
PARKWAY, SUITE 200
KANSAS CITY, MO 64153
PHONE: (816) 298-5465
CERTIFICATE OF AUTHORITY
NO. 2008013090

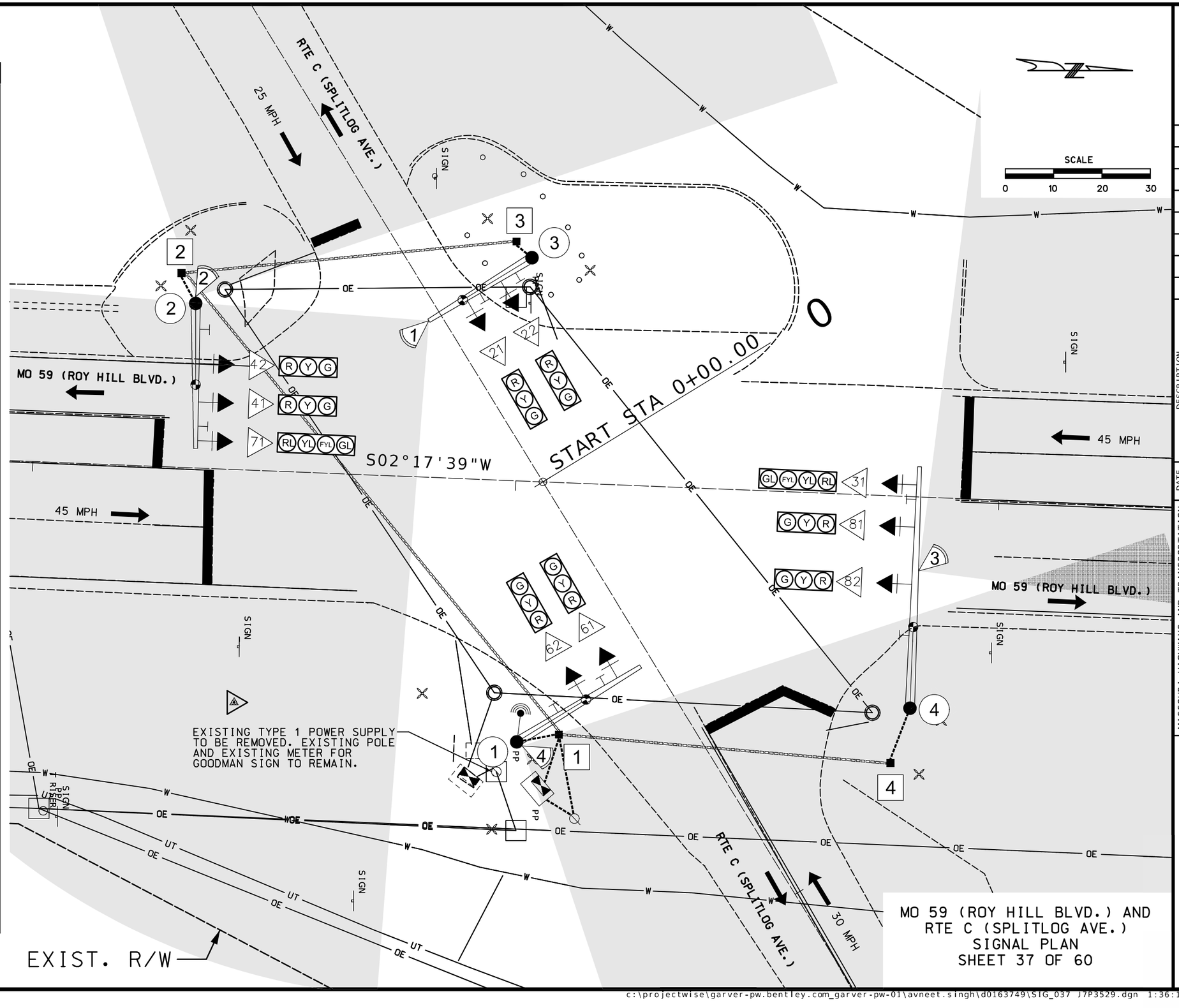
GARVER

c:\projectwise\garver-pw.bentley.com_garver-pw-01\avneet.singh\d0163749\SIG_036.dgn 1:35:14 PM 2/26/2026

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
- RADAR DETECTOR
- **WIRELESS RADIO (NEW)**
- 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
- MAST ARM (EXISTING)
- PULL BOX (EXISTING)
- DETECTOR WITH NUMBER
- 6 X 6 LOOP DETECTOR
- 6 X 15 LOOP DETECTOR
- 30 X 6 DETECTOR ZONE
- 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
- LUMINAIRE - LED A

NOTE: CONTRACTOR TO ENSURE CABINET IS INSTALLED SO THE DOORS OPEN AWAY FROM ROADWAY.



MO 59 (ROY HILL BLVD.) AND RTE C (SPLITLOG AVE.) SIGNAL PLAN
SHEET 37 OF 60

STATE OF MISSOURI
CLAIRE E. MCKINNEY
NUMBER PE-2022028959
PROFESSIONAL ENGINEER

DATE PREPARED	2/26/2026
ROUTE	VAR.
STATE	MO
DISTRICT	SW
SHEET NO.	69
COUNTY	VARIOUS
JOB NO.	J7P3529
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)

GARVER, LLC.
7509 NW TIFFANY SPRINGS
PARKWAY, SUITE 200
KANSAS CITY, MO 64153
PHONE: (816) 298-6465
CERTIFICATE OF AUTHORITY
NO. 2008013090

c:\projectwise\garver-pw.bentley.com_garver-pw-01\avneet.singh\d0163749\SIG_037 J7P3529.dgn 1:36:11 PM 2/26/2026

EFFECTIVE: 07-01-2018

| POST NUMBER | PULL BOX NUMBER | LOCATION: APPROACH | LOCATION: STATION | LOCATION: OFFSET | BASE: A 9 | A 9.5 | A 10 | A 10.5 | A 11 | A 12 | BASE: F 9 | F 9.5 | F 10 | F 10.5 | F 11 | BASE: ■ REMOTE POST BASE | BASE: C | BASE: CONCRETE** (CU. YDS.) | PULL BOX: PREFORMED CLASS 1 | PREFORMED CLASS 2 | PREFORMED CLASS 3 | PREFORMED CLASS 5 | CONCRETE DOUBLE, TYPE A | CONCRETE STANDARD | 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. | TOP MOUNT POST ■ REMOTE POST BASE | TYPE C & CL ARM LENGTH 25' | ARM LENGTH 30' | ARM LENGTH 50' | SIGNAL SPACING B | SIGNAL SPACING C | SIGNAL SPACING D | SIGNAL SPACING D' | SIGN SPACING B | SIGN SPACING C | SIGN SPACING D | SIGN SPACING D' | TYPE B & BL ARM LENGTH E | ARM LENGTH K | ARM LENGTH E | ARM LENGTH K | ARM LENGTH E | ARM LENGTH K | LEFT ARM E SIGNAL SPACING F | SIGNAL SPACING G | SIGNAL SPACING H | SIGNAL SPACING H' | LEFT ARM E SIGN SPACING F | SIGN SPACING G | SIGN SPACING H | SIGN SPACING H' | RIGHT ARM K SIGNAL SPACING L | SIGNAL SPACING M | SIGNAL SPACING N | SIGNAL SPACING N' | RIGHT ARM K SIGN SPACING L | SIGN SPACING M | SIGN SPACING N | SIGN SPACING N' | INCLUDED ANGLE | LUMINAIRE BRACKET ARM* 4 FT. | 6 FT. | 8 FT. | 10 FT. | 12 FT | 15 FT |
|---|---|---

EFFECTIVE: 10-01-2015

CONDUIT (WITH #14 TRACER WIRE)

FROM	TO	CENTER TO CENTER DISTANCE	TRENCH 1"	TRENCH 1.25"	TRENCH 2"	TRENCH 4"	TRENCH 3.5"	PUSHED 2"	PUSHED 2.5"	PUSHED 4"	MEDIAN 2"	MEDIAN 3"	MEDIAN 4"	ON STRUCTURE 2"	ON STRUCTURE 3"	ON STRUCTURE 1"	REMARKS
⊠	ø	10			18												
⊠	1	11				28											2 CONDUITS
1	(1)	9				12											
1	2	124								122							
2	(2)	7				10											
2	3	70								68							
3	(3)	5				8											
1	4	69								67							
4	(4)	12				15											
ø	1	18			26												
SUBTOTALS					44	73				257							
TOTALS					44	73				257							

CABLE

FROM	TO	CENTER TO CENTER DISTANCE	POWER 1c#8	POWER **1c#2	CONTROL 2c#16	CONTROL 5c#16	CONTROL 7c#16	CONTROL 3c#16	* RADAR DETECTION SENSOR 6c	LUMINAIRE CONTROL 2c#12	LUMINAIRE POLE & BRACKET 1c#10	DETECTOR 1c#14 IN DUCT	DETECTOR 2c#14 LEAD-IN CABLE	FIBER SINGLE-MODE	FIBER MULTI-MODE	RADIO *CAT 6	REMARKS
⊠	ø	10	78														
⊠	6 1	20					85										
6 1	6 2	8					11										JUMPER
⊠	7	142					213										
⊠	4	142					213										
4	4 2	8					11										JUMPER
⊠	2 1	210					282										
2 1	2 2	8					11										JUMPER
⊠	3	92					183										
⊠	8 1	92					183										
8 1	8 2	12					15										JUMPER
⊠	(1)	210							295								
⊠	(2)	142							196								
⊠	(3)	92							196								
⊠	(4)	20							68								
⊠	RAD.	20														68	
ø	(1)	27								55	90						LUMINAIRE
1	(2)	131								155	90						LUMINAIRE
2	(3)	75								92	90						LUMINAIRE
1	(4)	81								179	90						LUMINAIRE
SUBTOTALS			78				1207		755	481	360					68	
TOTALS			80				1210		760	480	360					70	

* ITEMS FOR WHICH SEPARATE PAYMENT WILL NOT BE MADE

** CONDUIT AND CABLE BETWEEN POWER COMPANY SERVICE POLE AND POWER SUPPLY INCLUDED IN BID ITEM FOR POWER SUPPLY ASSEMBLY

MO 59 (ROY HILL BLVD) AND
RTE C (SPLITLOG AVE)
SIGNAL PLAN
SHEET 39 OF 60

D-37B

STATE OF MISSOURI
CLAIRE E. MCKINNEY
NUMBER PE-2022028959
PROFESSIONAL ENGINEER

DATE PREPARED: 2/26/2026
ROUTE: VAR. | STATE: MO
DISTRICT: SW | SHEET NO.: 71
COUNTY: VARIOUS
JOB NO.: J7P3529
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)

GARVER, LLC.
7509 NW TIFFANY SPRINGS
PARKWAY, SUITE 200
KANSAS CITY, MO 64153
PHONE: (816) 298-6465
CERTIFICATE OF AUTHORITY
NO. 2008013090

EFFECTIVE: 04-01-2018

CONTROLLER ASSEMBLY AND AUXILIARY EQUIPMENT

LOCATION			SYSTEM MASTER (CLOSED LOOP)		ACTUATED		ON-OFF SWITCH TYPE		COORDINATION AND INTERFACE						TIME CLOCK	NEMA CABINET TYPE			2070 CABINET TYPE		2070 SOFTWARE	
									12C/7C HARDWARE (1)		TIME BASE	CLOSED LOOP		FIBER								
APPROACH	STATION	OFFSET	NEMA	2070	NEMA	2070	I	II	MASTER	LOCAL		NEMA	2070			E	EV	DOUBLE	332	336S	OMNI EX	WAPITI
MO 59 (ROY HILL BLVD.)	87+92.28	62.80'LT.				1													1		1	

POWER SUPPLY

LOCATION			POWER SUPPLY ASSEMBLY		CIRCUIT BREAKER TRIP RATING				LIGHTING CONTROL (ON POWER SUPPLY)		SERVICE POLE	
					CONTROLLER		POWER SUPPLY DISCONNECT					
			DRAWING				MAIN BREAKER					
APPROACH	STATION	OFFSET	902.15	DRAWING	AUXILIARY BREAKER	CONT & SIGNAL LAMPS	SIGNALS	LIGHTING	120 VOLT CNTRL CABINET	MAIN BREAKER	CONTRACT FURNISH	UTILITY COMPANY
MO 59 (ROY HILL BLVD.)	87+85.12	69.32'LT.	Type 2		15 Amps	40 Amps	40 Amps	15 Amps	1	15 Amps		

SIGNAL SIGNS

QTY	MUTCD SIGN NUMBER	SIZE	AREA	SIGN TOTAL AREA ITEM NO. 90208.33	SIGNAL SIGN MOUNTING HARDWIRE ITEM NO. 90208.34
		INCHES	SQ.FT.	SQ.FT.	EA.
2	R10-12	30 X 36	7.5	15.0	2
2	R10-27A	30 X 36	7.5	15.0	2
2	D3-1	72 X 18	9.00	18.0	2
2	D3-1	78 X 18	9.75	19.5	2
			SUBTOTAL	67.5	8
			TOTAL	67.5	8

DETECTOR SCHEDULE

DETECTOR NUMBER	APPROACH	TYPE				
		APS PUSH BUTTON	INDUCTION LOOP (2)			RADAR *
			STANDARD	DELAY/ EXTEND	CALL UNIT	
1	NB					1
2	EB					1
3	SB					1
4	WB					1
SUBTOTALS						4
TOTALS						4

* ITEMS FOR WHICH SEPARATE PAYMENT WILL NOT BE MADE.

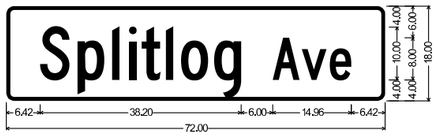
*** USE D3-1 FOR ONE LINE. USE D3-1B FOR TWO LINE.

(1) MoDOT "D" PLUG SHALL BE NO NEMA 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.

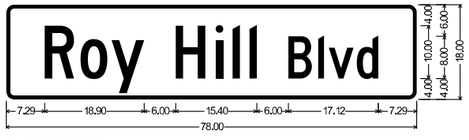
CONTRACTOR FURNISHED, CONTRACTOR INSTALLED RADAR DETECTION SYSTEM

1 EACH



D3-1 SH-FLAT SHEET:
1.50" Radius, 0.75" Border, White on Green;
"Splitlog", C 2K; "Ave", C 2K;
Table of letter and object lefts

S	p	l	i	t	l	o	g	A	v	e
6.42	13.52	20.12	23.32	25.72	30.32	33.22	39.52	50.62	56.14	61.50



D3-1 SH-FLAT SHEET:
1.50" Radius, 0.75" Border, White on Green;
"Roy Hill", C 2K; "Blvd", C 2K;
Table of letter and object lefts

R	o	y	H	i	l	l	B	l	v	d
7.29	14.09	19.99	32.19	39.79	42.99	46.19	53.59	59.27	61.27	66.63

2070 INPUT FILE ASSIGNMENTS

	CHANNEL	1	2	3	4	5	6	7	8	9	10	11	12	13	14
"I"	U		Ø1		Ø3	Ø4									
	L														
"J"	U		Ø5		Ø7	Ø8									
	L														

TOTAL NUMBER OF DETECTOR CARDS(2-CHANNEL) = (4)

2070 OUTPUT FILE ASSIGNMENTS

FR1	PH 1	PH 2	2 PED	PH 3	PH 4	4 PED	MONITOR
	RL	R		RL	R		
FR2	YL	Y		YL	Y	PH 3 L	
	FYL	G		FYL	G		
FR3	PH 5	PH 6	6 PED	PH 7	PH 8	8 PED	
	RL	R		RL	R		
FR4	YL	Y		YL	Y	PH 7 L	
	FYL	G		FYL	G		

* NOTE: LEFT TURN "L" SHALL BE WIRED INTO PEDESTRIAN AMBER IN LOAD SWITCH

MO 59 (ROY HILL BLVD) AND
RTE C (SPLITLOG AVE)
SIGNAL PLAN
SHEET 40 OF 60

D-37C

CLAIRE E. MCKINNEY NUMBER PE-2022028959 STATE OF MISSOURI PROFESSIONAL ENGINEER

DATE PREPARED 2/26/2026

ROUTE VAR. | STATE MO

DISTRICT SW | SHEET NO. 72

COUNTY VARIOUS

JOB NO. J7P3529

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION | DATE

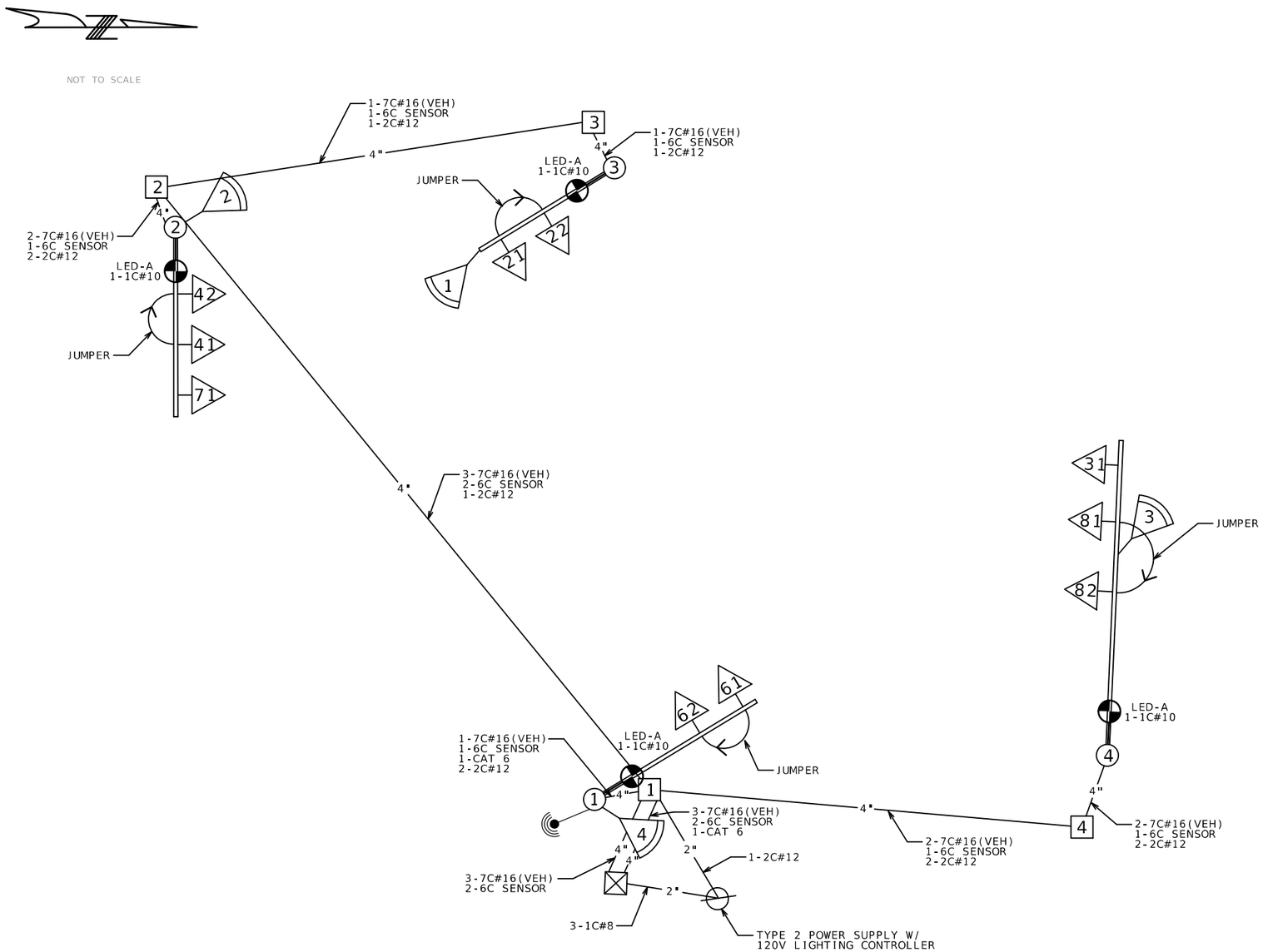
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

GARVER, LLC.
7509 NW TIFFANY SPRINGS
PARKWAY, SUITE 200
KANSAS CITY, MO 64153
PHONE: (816) 298-6465
CERTIFICATE OF AUTHORITY
NO. 2008013090

GARVER

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
	RADAR DETECTOR
	WIRELESS RADIO

MO 59 (ROY HILL BLVD) AND
RTE C (SPLITLOG AVE)
SIGNAL PLAN
SHEET 41 OF 60

D-37D

STATE OF MISSOURI
CLAIRE E. MCKINNEY
NUMBER PE-2022028959
PROFESSIONAL ENGINEER

DATE PREPARED
2/26/2026

ROUTE	STATE
VAR.	MO
DISTRICT	SHEET NO.
SW	73

COUNTY
VARIOUS

JOB NO.
J7P3529

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION

DATE

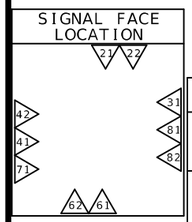
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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

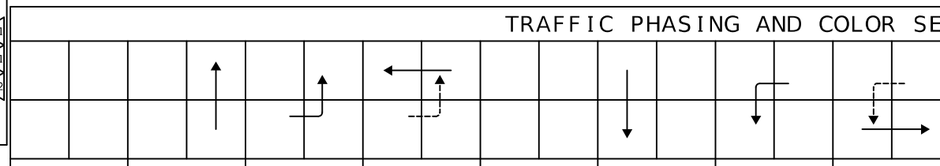
GARVER, LLC.
7509 NW TIFFANY SPRINGS
PARKWAY, SUITE 200
KANSAS CITY, MO 64153
PHONE: (816) 298-6465
CERTIFICATE OF AUTHORITY
NO. 2008013090

EFFECTIVE: 12-01-2017

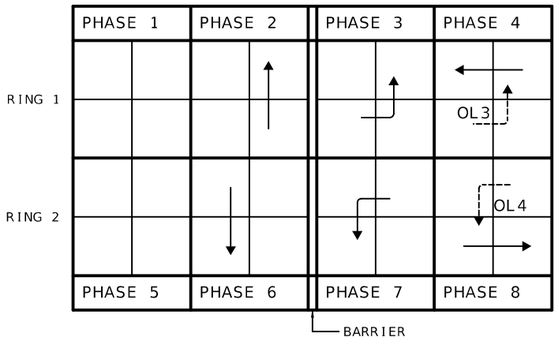
SIGNAL FACE LOCATION



TRAFFIC PHASING AND COLOR SEQUENCE - ACTUATED CONTROLLERS



		PHASE 1	PHASE 2	PHASE 3	PHASE 4	PHASE 5	PHASE 6	PHASE 7	PHASE 8	OVERLAP 3	OVERLAP 4	
FACE NUMBERS			21	31	41		61	71	81	31	71	FACE NUMBERS
			22		42		62		82			
SIGNAL INDICATIONS	R		R	RL	R		R	RL	R			R
	Y		Y	YL	Y		Y	YL	Y			Y
	FYA									FYL	FYL	FYA
	G		G	GL	G		G	G	G			G
DETECTOR ASSIGNMENTS												DETECTOR ASSIGNMENTS
DETECTOR ASSIGNMENTS (PEDS. ONLY)												
OVERLAP PARENT PHASES										4	8	



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	
ALL APPROACHES	FR

CONTROLLER TYPE	2070

TRAFFIC SIGNAL CONTROL OPERATION

MO 59 (ROY HILL BLVD) AND
RTE C (SPLITLOG AVE)
SIGNAL PLAN
SHEET 42 OF 60

D-38A

CLAIRE E. MCKINNEY NUMBER PE-2022028959
STATE OF MISSOURI PROFESSIONAL ENGINEER

DATE PREPARED 2/26/2026

ROUTE	STATE
VAR.	MO
DISTRICT	SHEET NO.
SW	74

COUNTY: VARIOUS
JOB NO.: J7P3529
CONTRACT ID.:
PROJECT NO.:
BRIDGE NO.:

DESCRIPTION | DATE

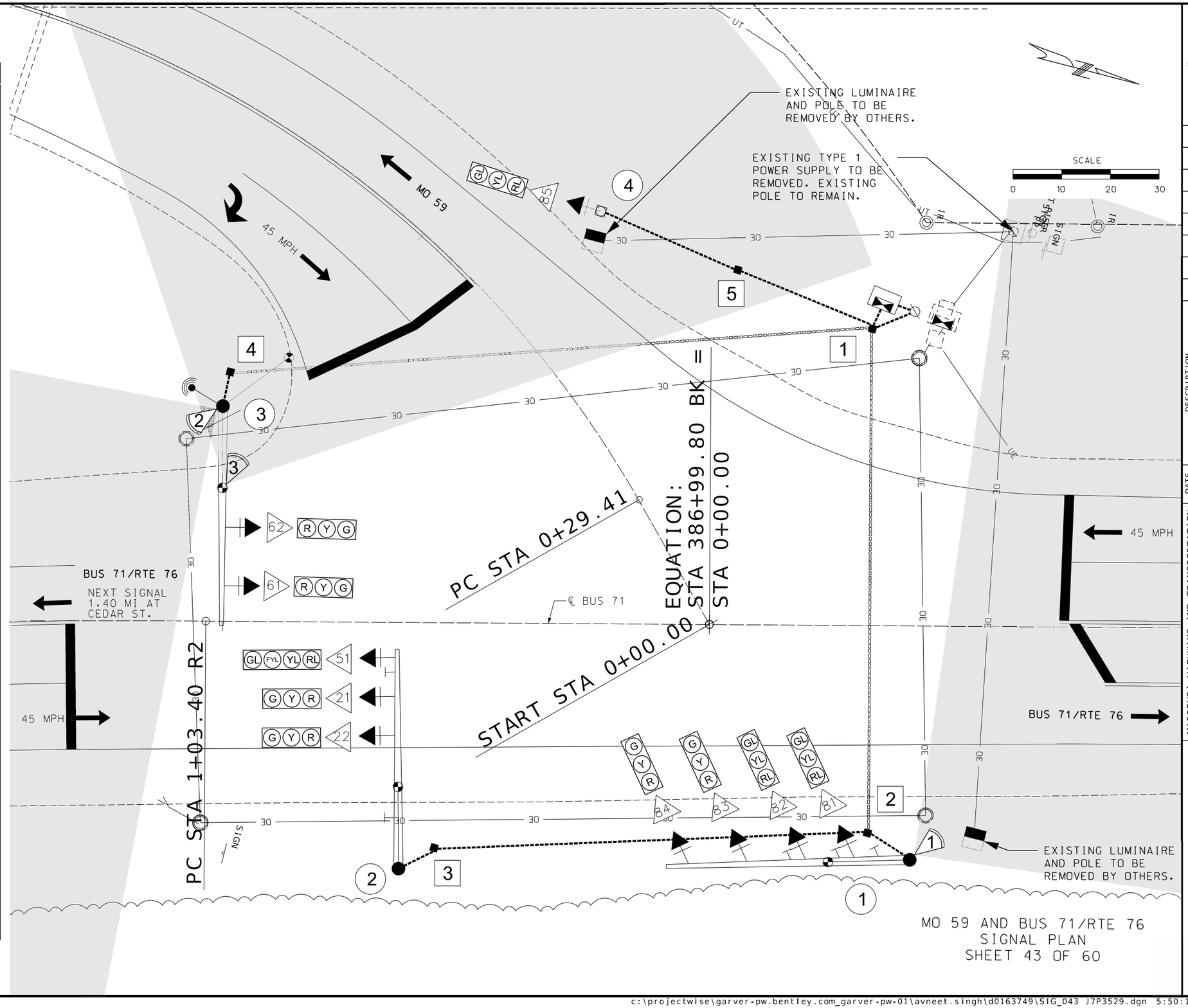
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

GARVER, LLC.
7509 NW TIFFANY SPRINGS
PARKWAY, SUITE 200
KANSAS CITY, MO 64153
PHONE: (816) 298-5465
CERTIFICATE OF AUTHORITY
NO. 2008013090

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
- RADAR DETECTOR
- WIRELESS RADIO (NEW)
- 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
- MAST ARM (EXISTING)
- PULL BOX (EXISTING)
- X DETECTOR WITH NUMBER
- 6 X 6 LOOP DETECTOR
- 6 X 15 LOOP DETECTOR
- 30 X 6 DETECTOR ZONE
- 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
- LUMINAIRE - LED A

NOTE: CONTRACTOR TO ENSURE CABINET IS INSTALLED SO THE DOORS OPEN AWAY FROM ROADWAY.



DATE PREPARED
4/6/2026

ROUTE	STATE
VAR.	MO
DISTRICT	SHEET NO.
SW	75

COUNTY
VARIOUS

JOB NO.
J7P3529

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)

GARVER, LLC.
7509 NW TIFFANY SPRINGS PARKWAY, SUITE 200
KANSAS CITY, MO 64153
PHONE: (816) 298-6465
CERTIFICATE OF AUTHORITY NO. 2008013090

CLAIRE E. MCKINNEY NUMBER PE-2022028959
STATE OF MISSOURI PROFESSIONAL ENGINEER

| POST NUMBER | PULL BOX NUMBER | LOCATION: APPROACH | STATION | OFFSET | BASE: A 9 | A 9.5 | A 10 | A 10.5 | A 11 | A 12 | F 9 | F 9.5 | F 10 | F 10.5 | F 11 | REMOTE POST BASE | C | CONCRETE** (CU. YDS.) | PULL BOX: PREFORMED CLASS 1 | CLASS 2 | CLASS 3 | CLASS 5 | CONCRETE DOUBLE, TYPE A | CONCRETE STANDARD | DRAIN TYPE* I | DRAIN TYPE* II A | DRAIN TYPE* II B | DRAIN TYPE* II C | POST: TOP MOUNT POST 8 FT. | TOP MOUNT POST 15 FT. | REMOTE POST BASE | TYPE C & CL: ARM LENGTH 45' | ARM LENGTH 50' | SIGNAL SPACING B | SIGNAL SPACING C | SIGNAL SPACING D | SIGNAL SPACING D' | SIGN SPACING B | SIGN SPACING C | SIGN SPACING D | SIGN SPACING D' | TYPE B & BL: ARM LENGTH E | ARM LENGTH K | ARM LENGTH E | ARM LENGTH K | ARM LENGTH E | ARM LENGTH K | LEFT ARM E: SIGNAL SPACING F | SIGNAL SPACING G | SIGNAL SPACING H | SIGNAL SPACING H' | SIGN SPACING F | SIGN SPACING G | SIGN SPACING H | SIGN SPACING H' | RIGHT ARM K: SIGNAL SPACING L | SIGNAL SPACING M | SIGNAL SPACING N | SIGNAL SPACING N' | SIGN SPACING L | SIGN SPACING M | SIGN SPACING N | SIGN SPACING N' | INCLUDED ANGLE | LUMINAIRE BRACKET ARM* 4 FT. | 6 FT. | 8 FT. | 10 FT. | 12 FT. | 15 FT. |
|---|---|---

EFFECTIVE: 10-01-2015

CONDUIT (WITH #14 TRACER WIRE)

FROM	TO	CENTER TO CENTER DISTANCE	TRENCH 1"	TRENCH 1.25"	TRENCH 2"	TRENCH 4"	TRENCH 3.5"	PUSHED 2"	PUSHED 2.5"	PUSHED 4"	MEDIAN 2"	MEDIAN 3"	MEDIAN 4"	ON STRUCTURE 2"	ON STRUCTURE 3"	ON STRUCTURE 1"	REMARKS
☒	∅	7			15												
☒	1	6				18											2 CONDUITS
1	2	104								102							
2	(1)	11				14											
2	3	90								88							
3	(2)	9				12											
1	4	133								131							
4	(3)	8				11											
1	5	31				34											
5	(4)	31				34											
∅	1	10			18												
SUBTOTALS					33	123				321							
TOTALS					33	123				321							

CABLE

FROM	TO	CENTER TO CENTER DISTANCE	POWER 1c#8	POWER ** 1c#2	CONTROL 2c#16	CONTROL 5c#16	CONTROL 7c#16	CONTROL 3c#16	*RADAR DETECTION SENSOR 6c	LUMINAIRE CONTROL 2c#12	LUMINAIRE POLE & BRACKET 1c#10	DETECTOR 1c#14 IN DUCT	DETECTOR 2c#14 LEAD-IN CABLE	FIBER SINGLE-MODE	FIBER MULTI-MODE	RADIO *CAT 6	REMARKS
☒	∅	7	69														
☒	81	121					212										
81	82	10					13										JUMPER
☒	83	121					212										
83	84	12					15										JUMPER
☒	51	209					301										
☒	21	209					301										
21	22	8					11										JUMPER
☒	61	147					233										
61	62	12					15										JUMPER
☒	85	68					109										
☒	<1	121							175								
☒	<2	147							201								
☒	<3	147							246								
☒	RAD.	147														201	
∅	(3)	151								322	180						2 LUMINAIRE
1	(1)	115								143	90						LUMINAIRE
2	(2)	99								116	90						LUMINAIRE
SUBTOTALS			69				1422		622	581	360					201	
TOTALS			70				1420		620	580	360					200	

* ITEMS FOR WHICH SEPARATE PAYMENT WILL NOT BE MADE

** CONDUIT AND CABLE BETWEEN POWER COMPANY SERVICE POLE AND POWER SUPPLY INCLUDED IN BID ITEM FOR POWER SUPPLY ASSEMBLY

MO 59 AND BUS 71/RTE 76
SIGNAL PLAN
SHEET 45 OF 60

D-37B

STATE OF MISSOURI
CLAIRE E. MCKINNEY
NUMBER PE-2022028959
PROFESSIONAL ENGINEER

DATE PREPARED 4/6/2026
ROUTE VAR. | STATE MO
DISTRICT SW | SHEET NO. 77
COUNTY VARIOUS
JOB NO. J7P3529
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)

CARVER, LLC.
7509 NW TIFFANY SPRINGS PARKWAY, SUITE 200
KANSAS CITY, MO 64153
PHONE: (816) 298-6465
CERTIFICATE OF AUTHORITY NO. 2008013090

EFFECTIVE: 04-01-2018

CONTROLLER ASSEMBLY AND AUXILIARY EQUIPMENT

LOCATION			SYSTEM MASTER (CLOSED LOOP)		ACTUATED		ON-OFF SWITCH TYPE		COORDINATION AND INTERFACE						TIME CLOCK	NEMA CABINET TYPE			2070 CABINET TYPE		2070 SOFTWARE	
									12C/7C HARDWARE (1)		TIME BASE	CLOSED LOOP		FIBER								
APPROACH	STATION	OFFSET	NEMA	2070	NEMA	2070	I	II	MASTER	LOCAL		NEMA	2070			E	EV	DOUBLE	332	336S	OMNI EX	WAPITI
BUS 71	386+64.65	65.90'RT.				1													1		1	

POWER SUPPLY

LOCATION			POWER SUPPLY ASSEMBLY		CIRCUIT BREAKER TRIP RATING				LIGHTING CONTROL (ON POWER SUPPLY)		SERVICE POLE	
					CONTROLLER		POWER SUPPLY DISCONNECT					
			DRAWING		AUXILIARY	CONT &	MAIN BREAKER		120 VOLT	MAIN	CONTRACT	UTILITY
APPROACH	STATION	OFFSET	902.15	DRAWING	BREAKER	SIGNAL LAMPS	SIGNALS	LIGHTING	CNTRL CABINET	BREAKER	FURNISH	COMPANY
BUS 71	386+58.01	64.53'RT.	Type 2		15 Amps	40 Amps	40 Amps	15 Amps	1	15 Amps		

SIGNAL SIGNS

QTY	MUTCD SIGN NUMBER	SIZE	AREA	SIGN TOTAL AREA ITEM NO. 90208.33	SIGNAL SIGN MOUNTING HARDWIRE ITEM NO. 90208.34
		INCHES	SQ.FT.	SQ.FT.	EA.
1	R10-27A	30 X 36	7.5	7.5	1
1	D3-1	72 X 18	9	9.0	1
2	D3-1	78 X 18	9.75	19.5	2
2	R3-5L	30 X 36	7.5	15.0	2
			SUBTOTAL	51.0	6
			TOTAL	51.0	6

DETECTOR SCHEDULE

DETECTOR NUMBER	APPROACH	TYPE				
		APS PUSH BUTTON	INDUCTION LOOP (2)			RADAR*
			STANDARD	DELAY/ EXTEND	CALL UNIT	
1	SB					1
2	NB					1
3	EB					1
SUBTOTALS						3
TOTALS						3

* ITEMS FOR WHICH SEPARATE PAYMENT WILL NOT BE MADE.

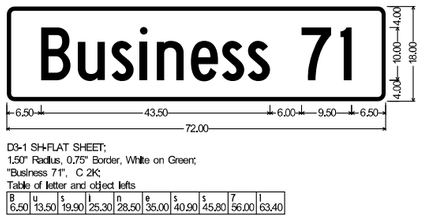
*** USE D3-1 FOR ONE LINE. USE D3-1B FOR TWO LINE.

(1) MoDOT "D" PLUG SHALL BE NO NEMA 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.

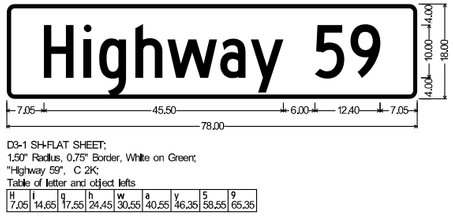
CONTRACTOR FURNISHED, CONTRACTOR INSTALLED RADAR DETECTION SYSTEM

1 EACH



D3-1 SH-FLAT SHEET;
1.50" Radius, 0.75" Border, White on Green;
"Business 71", C 2K;
Table of letter and object lefts

B	u	s	i	n	e	s	s	7	1
6.50	13.50	19.90	25.30	28.50	35.00	40.90	45.80	56.00	63.40



D3-1 SH-FLAT SHEET;
1.50" Radius, 0.75" Border, White on Green;
"Highway 59", C 2K;
Table of letter and object lefts

H	i	g	h	w	a	y	5	9
7.05	14.65	17.55	24.45	30.55	40.55	46.35	58.55	65.35

2070 INPUT FILE ASSIGNMENTS

	CHANNEL	1	2	3	4	5	6	7	8	9	10	11	12	13	14
"I"	U		Ø2												
	L														
"J"	U	Ø5	Ø6			Ø8									
	L														

TOTAL NUMBER OF DETECTOR CARDS(2-CHANNEL) = (4)

2070 OUTPUT FILE ASSIGNMENTS

	PH 1	PH 2	2 PED	PH 3	PH 4	4 PED	
FR1		R					MONITOR
		Y					
FR2		G					
	PH 5	PH 6	6 PED	PH 7	PH 8	8 PED	
FR3	RL	R			R		
	YL	Y	PH 5 L		Y		
FR4	FYL	G			G		

* NOTE: LEFT TURN "L" SHALL BE WIRED INTO PEDESTRIAN AMBER IN LOAD SWITCH

MO 59 AND BUS 71/RTE 76
SIGNAL PLAN
SHEET 46 OF 60

D-37C

CLAIRE E. MCKINNEY NUMBER PE-2022028959 STATE OF MISSOURI PROFESSIONAL ENGINEER

DATE PREPARED 2/26/2026

ROUTE VAR. | STATE MO

DISTRICT SW | SHEET NO. 78

COUNTY VARIOUS

JOB NO. J7P3529

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION | DATE

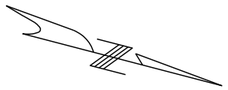
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

GARVER, LLC.
7509 NW TIFFANY SPRINGS PARKWAY, SUITE 200
KANSAS CITY, MO 64153
PHONE: (816) 298-6465
CERTIFICATE OF AUTHORITY NO. 2008013090

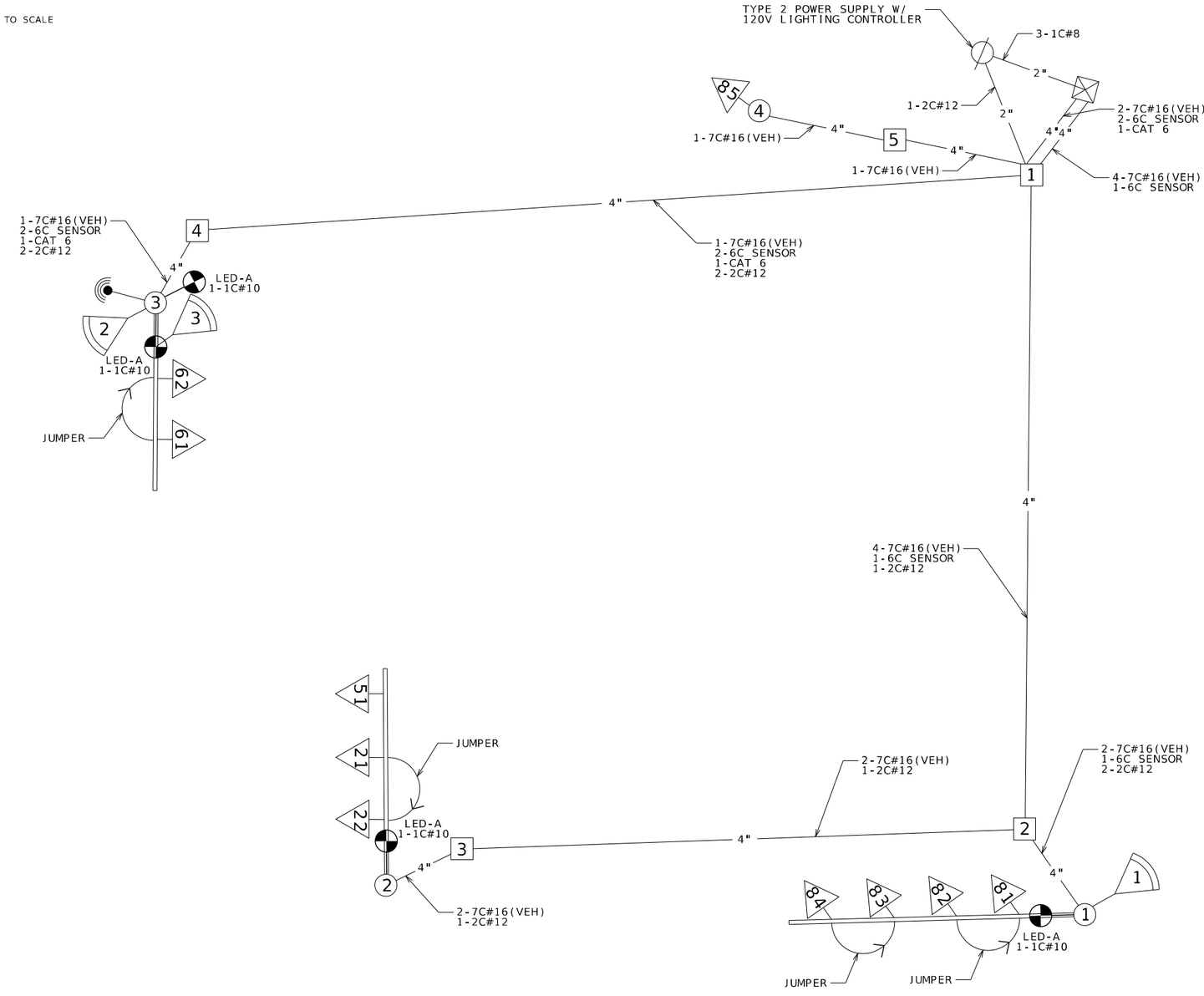
c:\projectwise\garver-pw.bentley.com_garver-pw-01\avneet.singh\d0163749\SIG_046.dgn 1:42:48 PM 2/26/2026

EFFECTIVE: 12-01-2017

WIRING DIAGRAM



NOT TO SCALE



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
	RADAR DETECTOR
	WIRELESS RADIO

MO 59 AND BUS 71/RTE 76
SIGNAL PLAN
SHEET 47 OF 60

D-37D

CLAIRE E. MCKINNEY
NUMBER PE-2022028959
STATE OF MISSOURI
PROFESSIONAL ENGINEER

DATE PREPARED
4/6/2026

ROUTE	STATE
VAR.	MO
DISTRICT	SHEET NO.
SW	79

COUNTY
VARIOUS

JOB NO.
J7P3529

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

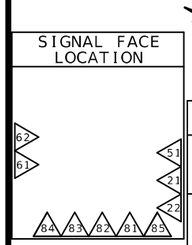
DESCRIPTION	DATE

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

GARVER, LLC.
7509 NW TIFFANY SPRINGS
PARKWAY, SUITE 200
KANSAS CITY, MO 64153
PHONE: (816) 298-6465
CERTIFICATE OF AUTHORITY
NO. 2008013090

EFFECTIVE: 12-01-2017

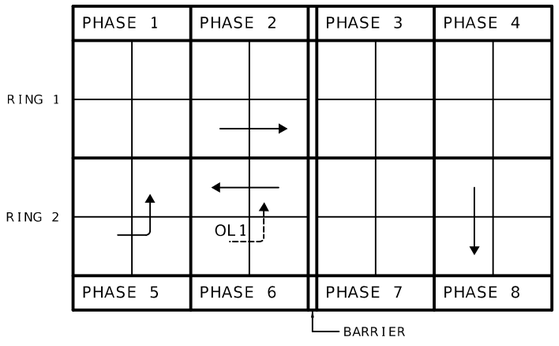
SIGNAL FACE LOCATION



TRAFFIC PHASING AND COLOR SEQUENCE - ACTUATED CONTROLLERS

	PHASE 1	PHASE 2	PHASE 3	PHASE 4	PHASE 5	PHASE 6	PHASE 7	PHASE 8	OVERLAP 1
FACE NUMBERS		21 22			51	61 62		81 85 83 82 84	51
SIGNAL INDICATIONS R		R			RL	R		RL RL R	
SIGNAL INDICATIONS Y		Y			YL	Y		YL YL Y	
SIGNAL INDICATIONS FYA									FYL
SIGNAL INDICATIONS G		G			L	G		L L G	
DETECTOR ASSIGNMENTS									
DETECTOR ASSIGNMENTS (PEDS. ONLY)									
OVERLAP PARENT PHASES									6

FACE NUMBERS
SIGNAL INDICATIONS
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	
ALL APPROACHES	FR

CONTROLLER TYPE	2070

TRAFFIC SIGNAL CONTROL OPERATION

MO 59 AND BUS 71/RTE 76
SIGNAL PLAN
SHEET 48 OF 60

D-38A

CLAIRE E. MCKINNEY NUMBER PE-2022028959 PROFESSIONAL ENGINEER STATE OF MISSOURI

DATE PREPARED: 2/26/2026

ROUTE	STATE
VAR.	MO
DISTRICT	SHEET NO.
SW	80

COUNTY: VARIOUS
JOB NO.: J7P3529
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)

GARVER, LLC.
7509 NW TIFFANY SPRINGS
PARKWAY, SUITE 200
KANSAS CITY, MO 64153
PHONE: (816) 298-5465
CERTIFICATE OF AUTHORITY
NO. 2008013090

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
- RADAR DETECTOR
- **WIRELESS RADIO (NEW)**
- 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
- MAST ARM (EXISTING)
- PULL BOX (EXISTING)
- DETECTOR WITH NUMBER
- 6 X 6 LOOP DETECTOR
- 6 X 15 LOOP DETECTOR
- 30 X 6 DETECTOR ZONE
- 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

NOTE: CONTRACTOR TO ENSURE CABINET IS INSTALLED SO THE DOORS OPEN AWAY FROM ROADWAY.

NOTE: SEE LIGHTING SHEET 3 FOR LIGHTING DETAILS.

EXISTING TYPE 1 POWER SUPPLY TO BE REMOVED. PROPOSED TYPE 1 POWER SUPPLY WITH 120V LIGHTING CONTROLLER TO BE INSTALLED ON EXISTING POLE.

SCALE 0 10 20 30

50 MPH

BUS 71

NEXT SIGNAL 1.40 MI AT MO 59

55 MPH

CEDAR ST.

35 MPH

CEDAR ST.

SIGN

SIGN

PP

PP

PP

OE

UT

W

BUS 71

50 MPH

75

BUS 71 AND CEDAR ST. SIGNAL PLAN SHEET 49 OF 60

CLAIRE E. MCKINNEY NUMBER PE-2022028959 STATE OF MISSOURI PROFESSIONAL ENGINEER

DATE PREPARED 2/26/2026

ROUTE	STATE
VAR.	MO
DISTRICT	SHEET NO.
SW	81

COUNTY: VARIOUS

JOB NO.: J7P3529

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)

GARVER, LLC.
7509 NW TIFFANY SPRINGS
PARKWAY, SUITE 200
KANSAS CITY, MO 64153
PHONE: (816) 298-6465
CERTIFICATE OF AUTHORITY
NO. 2008013090

c:\projectwise\garver-pw.bentley.com_garver-pw-01\avneet.singh\d0163749\SIG_049 J7P3529.dgn 1:45:14 PM 2/26/2026

POST NUMBER	PULL BOX NUMBER	LOCATION: APPROACH	LOCATION: STATION	LOCATION: OFFSET	BASE: A 9	A 9.5	A 10	A 10.5	A 11	A 12	BASE: F 9	F 9.5	F 10	F 10.5	F 11	BASE: ■ REMOTE POST BASE	BASE: C	BASE: CONCRETE** (CU. YDS.)	PULL BOX: PREFORMED CLASS 1	PREFORMED CLASS 2	PREFORMED CLASS 3	PREFORMED CLASS 5	CONCRETE DOUBLE, TYPE A	CONCRETE STANDARD	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.	POST: ■ REMOTE POST BASE	TYPE C & CL: ARM LENGTH 25'	ARM LENGTH 40'	ARM LENGTH 45'	SIGNAL SPACING B	SIGNAL SPACING C	SIGNAL SPACING D	SIGN SPACING D'	SIGN SPACING B	SIGN SPACING C	SIGN SPACING D	SIGN SPACING D'	TYPE B & BL: ARM LENGTH E	ARM LENGTH K	ARM LENGTH E	ARM LENGTH K	LEFT ARM E: SIGNAL SPACING F	SIGNAL SPACING G	SIGNAL SPACING H	SIGNAL SPACING H'	LEFT ARM E: SIGN SPACING F	SIGN SPACING G	SIGN SPACING H	SIGN SPACING H'	RIGHT ARM K: SIGNAL SPACING L	SIGNAL SPACING M	SIGNAL SPACING N	SIGNAL SPACING N'	RIGHT ARM K: SIGN SPACING L	SIGN SPACING M	SIGN SPACING N	SIGN SPACING N'	INCLUDED ANGLE	LUMINAIRE BRACKET ARM* 4 FT.	6 FT.	8 FT.	10 FT.	12 FT.	15 FT.
1		BUS 71	73+19.86	39.95'LT.				1										3.27														1																															
2		BUS 71	74+15.04	41.24'LT.	1													2.88														1																															
3		BUS 71	74+24.24	44.31'RT.				1										3.27															1																															
4		BUS 71	73+41.82	45.60'RT.	1													2.88														1																															
	1	BUS 71	73+42.67	48.49'LT.																			1		1																																							
	2	BUS 71	74+11.92	37.11'LT.																				1	1																																						
	3	BUS 71	74+18.65	49.84'RT.																				1	1																																						
	4	BUS 71	73+44.09	40.09'RT.																				1	1																																						
				SUBTOTALS														12.3						1	3	3	1							2	1	1																		

EFFECTIVE: 10-01-2015

CONDUIT (WITH #14 TRACER WIRE)

FROM	TO	CENTER TO CENTER DISTANCE	TRENCH 1"	TRENCH 1.25"	TRENCH 2"	TRENCH 4"	TRENCH 3.5"	PUSHED 2"	PUSHED 2.5"	PUSHED 4"	MEDIAN 2"	MEDIAN 3"	MEDIAN 4"	ON STRUCTURE 2"	ON STRUCTURE 3"	ON STRUCTURE 1"	REMARKS
⊠	ø	24			32												
⊠	1	6				18											2 CONDUITS
1	(1)	25				28											
1	2	72								70							
2	(2)	5				8											
2	3	87								85							
3	(3)	8				11											
1	4	89								87							
4	(4)	6				9											
SUBTOTALS					32	74				242							
TOTALS					32	74				242							

CABLE

FROM	TO	CENTER TO CENTER DISTANCE	POWER 1c#8	POWER ** 1c#2	CONTROL 2c#16	CONTROL 5c#16	CONTROL 7c#16	CONTROL 3c#16	*RADAR DETECTION SENSOR 6c	LUMINAIRE CONTROL 2c#12	LUMINAIRE POLE & BRACKET 1c#10	DETECTOR 1c#14 IN DUCT	DETECTOR 2c#14 LEAD-IN CABLE	FIBER SINGLE-MODE	FIBER MULTI-MODE	RADIO *CAT 6	REMARKS
⊠	ø	24	120														
⊠	1	173					265										
⊠	6	173					265										
6	6	8					11										JUMPER
⊠	4	101					167										
4	4	8					11										JUMPER
⊠	5	31					106										
⊠	2	31					106										
2	2	8					11										JUMPER
⊠	8	83					149										
8	8	8					11										JUMPER
⊠	(1)	83							137								
⊠	(2)	83							137								
⊠	(3)	101							155								
⊠	(4)	101							155								
⊠	RAD.	31														79	
SUBTOTALS			120				1102		584							79	
TOTALS			120				1100		580							80	

* ITEMS FOR WHICH SEPARATE PAYMENT WILL NOT BE MADE

** CONDUIT AND CABLE BETWEEN POWER COMPANY SERVICE POLE AND POWER SUPPLY INCLUDED IN BID ITEM FOR POWER SUPPLY ASSEMBLY

BUS 71 AND CEDAR ST.
SIGNAL PLAN
SHEET 51 OF 60

D-37B

STATE OF MISSOURI
CLAIRE E. MCKINNEY
NUMBER PE-2022028959
PROFESSIONAL ENGINEER

DATE PREPARED: 2/26/2026
ROUTE: VAR. | STATE: MO
DISTRICT: SW | SHEET NO.: 83
COUNTY: VARIOUS
JOB NO.: J7P3529
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)

GARVER, LLC.
7509 NW TIFFANY SPRINGS
PARKWAY, SUITE 200
KANSAS CITY, MO 64153
PHONE: (816) 298-6465
CERTIFICATE OF AUTHORITY
NO. 2008013090

EFFECTIVE: 04-01-2018

CONTROLLER ASSEMBLY AND AUXILIARY EQUIPMENT

LOCATION			SYSTEM MASTER (CLOSED LOOP)		ACTUATED		ON-OFF SWITCH TYPE		COORDINATION AND INTERFACE						TIME CLOCK	NEMA CABINET TYPE			2070 CABINET TYPE		2070 SOFTWARE	
									12C/7C HARDWARE (1)		TIME BASE	CLOSED LOOP		FIBER								
APPROACH	STATION	OFFSET	NEMA	2070	NEMA	2070	I	II	MASTER	LOCAL		NEMA	2070			E	EV	DOUBLE	332	336S	OMNI EX	WAPITI
BUS 71	73+38.19	51.71'LT.				1													1		1	

POWER SUPPLY

LOCATION			POWER SUPPLY ASSEMBLY		CIRCUIT BREAKER TRIP RATING				LIGHTING CONTROL (ON POWER SUPPLY)		SERVICE POLE	
					CONTROLLER		POWER SUPPLY DISCONNECT					
			DRAWING				MAIN BREAKER					
APPROACH	STATION	OFFSET	902.15	DRAWING	AUXILIARY BREAKER	CONT & SIGNAL LAMPS	SIGNALS	LIGHTING	120 VOLT CNTRL CABINET	MAIN BREAKER	CONTRACT FURNISH	UTILITY COMPANY
BUS 71	73+53.47	69.50'LT.	Type 1		15 Amps	40 Amps	40 Amps	15 Amps	1	15 Amps		

SIGNAL SIGNS

QTY	MUTCD SIGN NUMBER	SIZE	AREA	SIGN TOTAL AREA ITEM NO. 90208.33	SIGNAL SIGN MOUNTING HARDWIRE ITEM NO. 90208.34
		INCHES	SQ.FT.	SQ.FT.	EA.
2	R10-12	30 X 36	7.5	15.0	2
2	R10-27A	30 X 36	7.5	15.0	2
2	D3-1	54 X 18	6.75	13.5	2
2	D3-1	72 X 18	9.00	18.0	2
			SUBTOTAL	61.5	8
			TOTAL	61.5	8

DETECTOR SCHEDULE

DETECTOR NUMBER	APPROACH	TYPE				
		APS PUSH BUTTON	INDUCTION LOOP (2)			RADAR*
			STANDARD	DELAY/ EXTEND	CALL UNIT	
1	WB					1
2	NB					1
3	EB					1
4	SB					1
SUBTOTALS						4
TOTAL						4

* ITEMS FOR WHICH SEPARATE PAYMENT WILL NOT BE MADE.

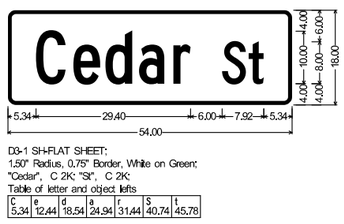
*** USE D3-1 FOR ONE LINE. USE D3-1B FOR TWO LINE.

(1) MoDOT "D" PLUG SHALL BE NO NEMA 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.

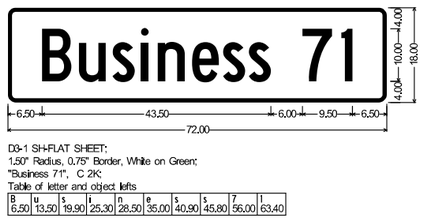
CONTRACTOR FURNISHED, CONTRACTOR INSTALLED RADAR DETECTION SYSTEM

1 EACH



D3-1 SH-FLAT SHEET:
1.50" Radius, 0.75" Border, White on Green;
"Cedar", C 2K; "St", C 2K;
Table of letter and object lefts

C	e	d	a	r	S	t
5.34	12.44	18.54	24.94	31.44	40.74	45.78



D3-1 SH-FLAT SHEET:
1.50" Radius, 0.75" Border, White on Green;
"Business 71", C 2K;
Table of letter and object lefts

B	u	s	i	n	e	s	s	s	7	1
6.50	13.50	19.90	25.30	28.50	35.00	40.90	45.80	56.00	63.40	

2070 INPUT FILE ASSIGNMENTS

	CHANNEL	1	2	3	4	5	6	7	8	9	10	11	12	13	14
"I"	U	Ø1	Ø2			Ø4									
	L														
"J"	U	Ø5	Ø6			Ø8									
	L														

TOTAL NUMBER OF DETECTOR CARDS(2-CHANNEL) = (4)

2070 OUTPUT FILE ASSIGNMENTS

FR1	PH 1	PH 2	2 PED	PH 3	PH 4	4 PED	MONITOR
	RL	R			R		
FR2	YL	Y	PH 1 L		Y		
	FYL	G			G		
FR3	PH 5	PH 6	6 PED	PH 7	PH 8	8 PED	
	RL	R			R		
FR4	YL	Y	PH 5 L		Y		
	FYL	G			G		

* NOTE: LEFT TURN "L" SHALL BE WIRED INTO PEDESTRIAN AMBER IN LOAD SWITCH

BUS 71 AND CEDAR ST.
SIGNAL PLAN
SHEET 52 OF 60

D-37C

CLAIRE E. MCKINNEY NUMBER PE-2022028959
STATE OF MISSOURI PROFESSIONAL ENGINEER

DATE PREPARED 2/26/2026
ROUTE VAR. | STATE MO
DISTRICT SW | SHEET NO. 84
COUNTY VARIOUS
JOB NO. J7P3529
CONTRACT ID.
PROJECT NO.
BRIDGE NO.

DESCRIPTION | DATE

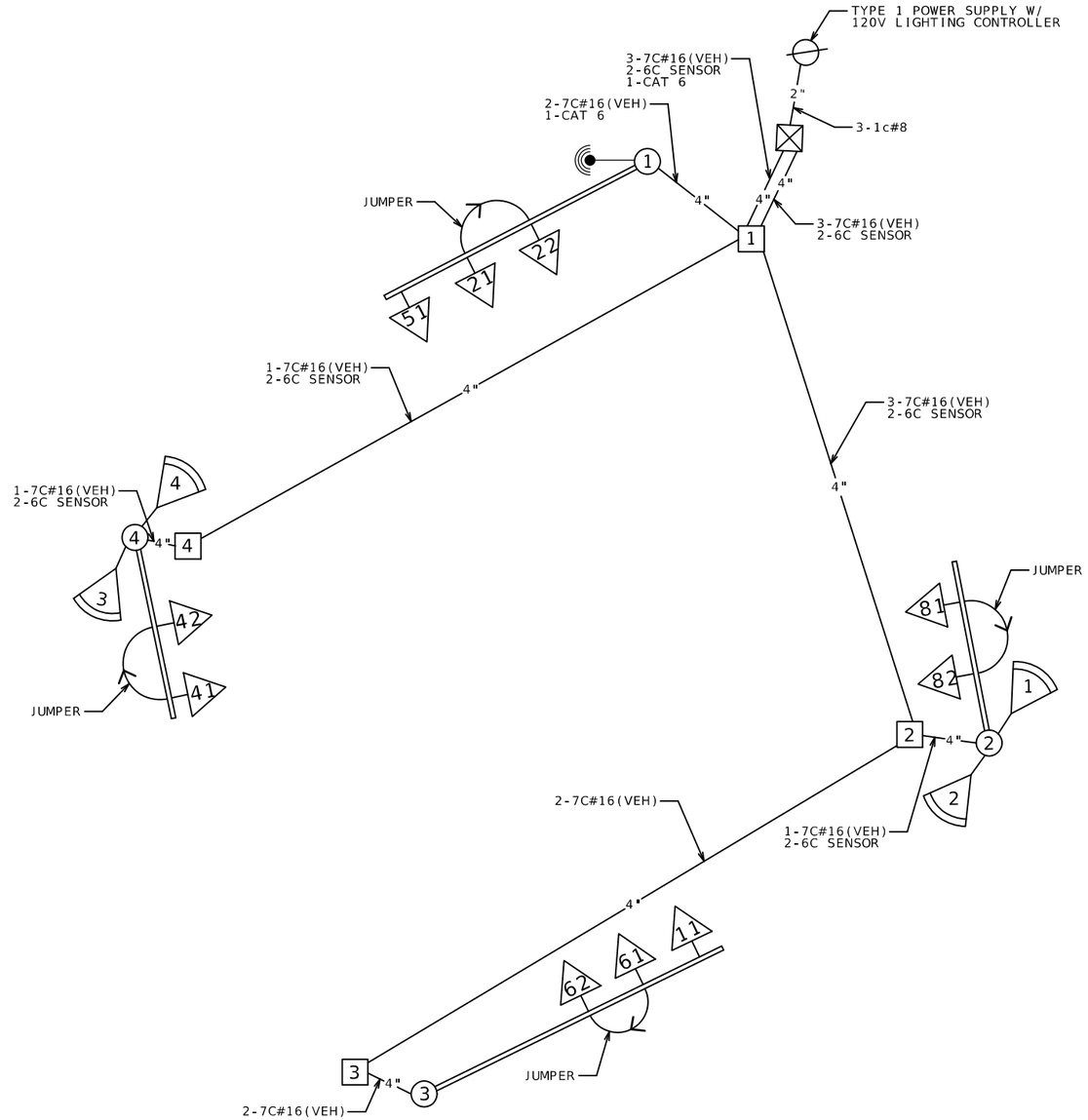
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

GARVER, LLC.
7509 NW TIFFANY SPRINGS PARKWAY, SUITE 200
KANSAS CITY, MO 64153
PHONE: (816) 298-6465
CERTIFICATE OF AUTHORITY NO. 2008013090

EFFECTIVE: 12-01-2017

WIRING DIAGRAM

NOT TO SCALE



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
	RADAR DETECTOR
	WIRELESS RADIO

BUS 71 AND CEDAR ST.
SIGNAL PLAN
SHEET 53 OF 60

D-37D

STATE OF MISSOURI
CLAIRE E. MCKINNEY
NUMBER PE-2022028959
PROFESSIONAL ENGINEER

DATE PREPARED
2/26/2026

ROUTE	STATE
VAR.	MO
DISTRICT	SHEET NO.
SW	85

COUNTY
VARIOUS

JOB NO.
J7P3529

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION

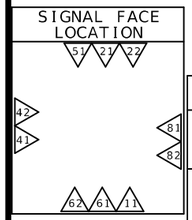
DATE

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

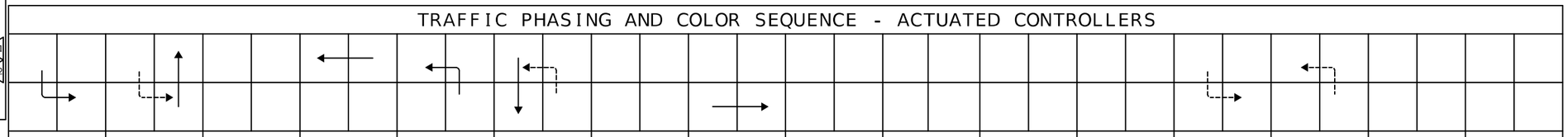
GARVER, LLC.
7509 NW TIFFANY SPRINGS
PARKWAY, SUITE 200
KANSAS CITY, MO 64153
PHONE: (816) 298-6465
CERTIFICATE OF AUTHORITY
NO. 2008013090

EFFECTIVE: 12-01-2017

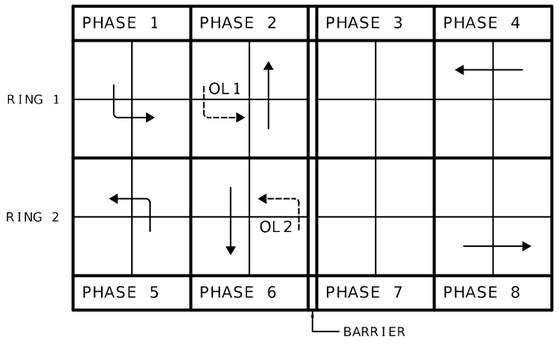
SIGNAL FACE LOCATION



TRAFFIC PHASING AND COLOR SEQUENCE - ACTUATED CONTROLLERS



		PHASE 1	PHASE 2	PHASE 3	PHASE 4	PHASE 5	PHASE 6	PHASE 7	PHASE 8	OVERLAP 1	OVERLAP 2	
FACE NUMBERS		11	21		41	51	61		81	11	51	FACE NUMBERS
			22		42		62		82			
SIGNAL INDICATIONS	R	RL	R		R	RL	R		R			R
	Y	YL	Y		Y	YL	Y		Y			Y
	FYA									FYL	FYL	FYA
	G	L	G		G	L	G		G			G
DETECTOR ASSIGNMENTS												DETECTOR ASSIGNMENTS
DETECTOR ASSIGNMENTS (PEDS. ONLY)												
OVERLAP PARENT PHASES										2	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	
ALL APPROACHES	FR

CONTROLLER TYPE	2070

TRAFFIC SIGNAL CONTROL OPERATION

BUS 71 AND CEDAR ST.
SIGNAL PLAN
SHEET 54 OF 60

D-38A

CLAIRE E. MCKINNEY NUMBER PE-2022028959 STATE OF MISSOURI PROFESSIONAL ENGINEER

DATE PREPARED: 2/26/2026

ROUTE	STATE
VAR.	MO
DISTRICT	SHEET NO.
SW	86

COUNTY: VARIOUS
JOB NO.: J7P3529
CONTRACT ID.:
PROJECT NO.:
BRIDGE NO.:

DESCRIPTION | DATE

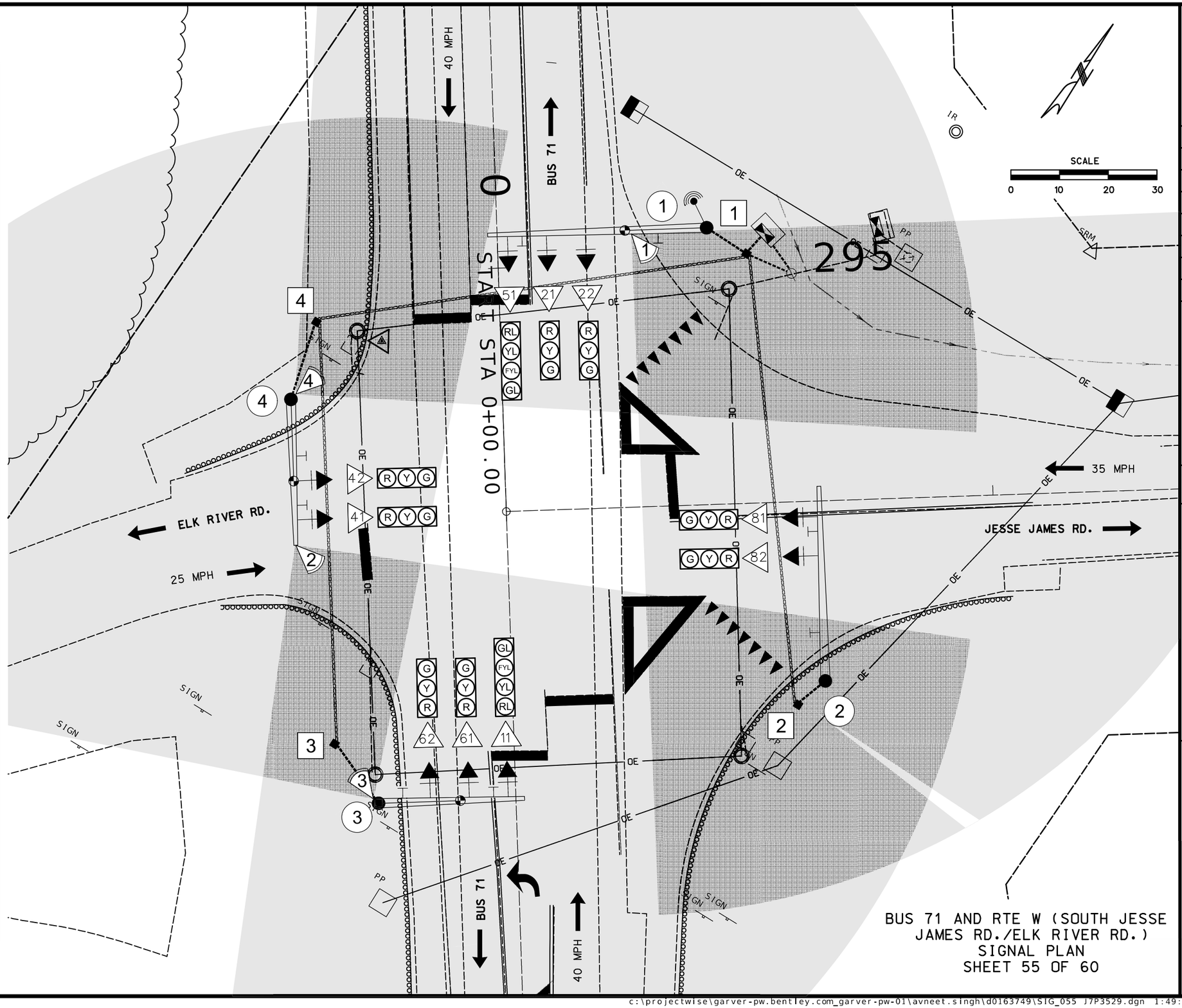
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

GARVER, LLC.
7509 NW TIFFANY SPRINGS
PARKWAY, SUITE 200
KANSAS CITY, MO 64153
PHONE: (816) 298-5465
CERTIFICATE OF AUTHORITY
NO. 2008013090

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
- RADAR DETECTOR
- **WIRELESS RADIO (NEW)**
- 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
- MAST ARM (EXISTING)
- PULL BOX (EXISTING)
- DETECTOR WITH NUMBER
- 6 X 6 LOOP DETECTOR
- 6 X 15 LOOP DETECTOR
- 30 X 6 DETECTOR ZONE
- 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
- LUMINAIRE - LED A

NOTE: CONTRACTOR TO ENSURE CABINET IS INSTALLED SO THE DOORS OPEN AWAY FROM ROADWAY.



BUS 71 AND RTE W (SOUTH JESSE JAMES RD./ELK RIVER RD.)
SIGNAL PLAN
SHEET 55 OF 60

CLAIRE E. MCKINNEY NUMBER PE-2022028959 PROFESSIONAL ENGINEER STATE OF MISSOURI

DATE PREPARED	
2/26/2026	
ROUTE	STATE
VAR.	MO
DISTRICT	SHEET NO.
SW	87
COUNTY	
VARIOUS	
JOB NO.	
J7P3529	
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)

GARVER, LLC.
7509 NW TIFFANY SPRINGS
PARKWAY, SUITE 200
KANSAS CITY, MO 64153
PHONE: (816) 298-6465
CERTIFICATE OF AUTHORITY
NO. 2008013090

c:\projectwise\garver-pw.bentley.com_garver-pw-01\avneet.singh\d0163749\SIG_055 J7P3529.dgn 1:49:51 PM 2/26/2026

EFFECTIVE: 07-01-2018

| POST NUMBER | PULL BOX NUMBER | LOCATION: APPROACH | LOCATION: STATION | LOCATION: OFFSET | BASE: A: 9 | A: 9.5 | A: 10 | A: 10.5 | A: 11 | A: 12 | F: 9 | F: 9.5 | F: 10 | F: 10.5 | F: 11 | ■ REMOTE POST BASE | C | CONCRETE** (CU. YDS.) | PULL BOX: PREFORMED CONCRETE: CLASS 1 | CLASS 2 | CLASS 3 | CLASS 5 | DOUBLE, TYPE A | STANDARD | DRAIN TYPE*: I | II: A | B | C | TOP MOUNT POST: 8 FT. | 15 FT. | ■ REMOTE POST BASE | POST: TYPE C & CL: ARM LENGTH: 30' | 40' | 45' | A | 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

CONDUIT (WITH #14 TRACER WIRE)

FROM	TO	CENTER TO CENTER DISTANCE	TRENCH 1"	TRENCH 1.25"	TRENCH 2"	TRENCH 4"	TRENCH 3.5"	PUSHED 2"	PUSHED 2.5"	PUSHED 4"	MEDIAN 2"	MEDIAN 3"	MEDIAN 4"	ON STRUCTURE 2"	ON STRUCTURE 3"	ON STRUCTURE 1"	REMARKS
⊠	ø	10			18												
⊠	1	6				18											2 CONDUITS
1	(1)	10				13											
1	2	93								91							
2	(2)	7				10											
1	4	89								87							
4	(4)	17				20											
4	3	87								85							
3	(3)	15				18											
ø	1	10			13												
SUBTOTALS					31	79				263							
TOTALS					31	79				263							

CABLE

FROM	TO	CENTER TO CENTER DISTANCE	POWER 1c#8	POWER **1c#2	CONTROL 2c#16	CONTROL 5c#16	CONTROL 7c#16	CONTROL 3c#16	*RADAR DETECTION SENSOR 6c	LUMINAIRE CONTROL 2c#12	LUMINAIRE POLE & BRACKET 1c#10	DETECTOR 1c#14 IN DUCT	DETECTOR 2c#14 LEAD-IN CABLE	FIBER SINGLE-MODE	FIBER MULTI-MODE	RADIO *CAT 6	REMARKS
⊠	ø	10	78														
⊠	5	16					96										
⊠	7	16					96										
2	2	8					11										JUMPER
⊠	8	106					187										
8	8	8					11										JUMPER
⊠	1	197					274										
⊠	6	197					274										
6	6	8					11										JUMPER
⊠	4	112					183										
4	4	8					11										JUMPER
⊠	<1>	16							80								
⊠	<2>	112							196								
⊠	<3>	197							257								
⊠	<4>	112							166								
⊠	RAD.	16														64	
ø	(1)	20								49	90						LUMINAIRE
4	(3)	102								119	90						LUMINAIRE
1	(4)	106								140	90						LUMINAIRE
SUBTOTALS			78				1154		699	308	270					64	
TOTALS			80				1150		700	310	270					60	

* ITEMS FOR WHICH SEPARATE PAYMENT WILL NOT BE MADE

** CONDUIT AND CABLE BETWEEN POWER COMPANY SERVICE POLE AND POWER SUPPLY INCLUDED IN BID ITEM FOR POWER SUPPLY ASSEMBLY

BUS 71 AND RTE W (SOUTH JESSE JAMES RD./ELK RIVER RD.)
SIGNAL PLAN
SHEET 57 OF 60

D-37B

STATE OF MISSOURI
CLAIRE E. MCKINNEY
NUMBER PE-2022028959
PROFESSIONAL ENGINEER

DATE PREPARED: 2/26/2026
ROUTE: VAR. | STATE: MO
DISTRICT: SW | SHEET NO.: 89
COUNTY: VARIOUS
JOB NO.: J7P3529
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)

GARVER, LLC.
7509 NW TIFFANY SPRINGS PARKWAY, SUITE 200
KANSAS CITY, MO 64153
PHONE: (816) 298-6465
CERTIFICATE OF AUTHORITY NO. 2008013090

EFFECTIVE: 04-01-2018

CONTROLLER ASSEMBLY AND AUXILIARY EQUIPMENT

LOCATION			SYSTEM MASTER (CLOSED LOOP)		ACTUATED		ON-OFF SWITCH TYPE		COORDINATION AND INTERFACE						TIME CLOCK	NEMA CABINET TYPE			2070 CABINET TYPE		2070 SOFTWARE	
									12C/7C HARDWARE (1)		TIME BASE	CLOSED LOOP		FIBER								
APPROACH	STATION	OFFSET	NEMA	2070	NEMA	2070	I	II	MASTER	LOCAL		NEMA	2070			E	EV	DOUBLE	332	336S	OMNI EX	WAPITI
BUS 71	294+94.52	54.71'LT.				1													1		1	

POWER SUPPLY

LOCATION			POWER SUPPLY ASSEMBLY		CIRCUIT BREAKER TRIP RATING				LIGHTING CONTROL (ON POWER SUPPLY)		SERVICE POLE	
					CONTROLLER		POWER SUPPLY DISCONNECT					
			DRAWING				MAIN BREAKER					
APPROACH	STATION	OFFSET	902.15	DRAWING	AUXILIARY BREAKER	CONT & SIGNAL LAMPS	SIGNALS	LIGHTING	120 VOLT CNTRL CABINET	MAIN BREAKER	CONTRACT FURNISH	UTILITY COMPANY
BUS 71	295+03.08	60.15'LT.	Type 2		15 Amps	40 Amps	40 Amps	15 Amps	1	15 Amps		

SIGNAL SIGNS

	QTY	MUTCD SIGN NUMBER	SIZE	AREA	SIGN TOTAL AREA ITEM NO. 90208.33	SIGNAL SIGN MOUNTING HARDWIRE ITEM NO. 90208.34
			INCHES	SQ.FT.	SQ.FT.	EA.
	2	R10-27A	30 X 36	7.5	15.0	2
	2	D3-1	72 X 18	9.00	18.0	2
***	2	D3-1B	108 X 36	27.00	54.0	2
	2	R10-12	30 X 36	7.5	15.0	2
				SUBTOTAL	102.0	8
				TOTAL	102.0	8

DETECTOR SCHEDULE

DETECTOR NUMBER	APPROACH	TYPE				
		APS PUSH BUTTON	INDUCTION LOOP (2)			RADAR*
			STANDARD	DELAY/ EXTEND	CALL UNIT	
1	WB					1
2	NB					1
3	EB					1
4	SB					1
	SUBTOTALS					4
	TOTALS					4

* 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 NO NEMA 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.

CONTRACTOR FURNISHED, CONTRACTOR INSTALLED
RADAR DETECTION SYSTEM

1 EACH



D3-1 SH-FLAT SHEET;
1.50" Radius, 0.75" Border, White on Green;
"Business 71", C 2K;
Table of letter and object lefts

B	u	s	i	n	e	s	s	7	1
6.50	13.50	19.90	25.30	28.50	35.00	40.90	45.80	56.00	63.40

D3-1 SH-FLAT SHEET;
1.50" Radius, 0.75" Border, White on Green;
Standard Arrow Custom 12.00" X 8.10" 180°; "Elk River", C 2K; "Rd", C 2K; "Jesse James", C 2K; "Rd", C 2K;
Standard Arrow Custom 12.00" X 8.10" 0°;
Table of letter and object lefts

←	E	l	k	R	i	v	e	r	R	d	
4.03	41.03	47.83	50.83	62.23	69.33	71.83	78.53	84.93	94.23	99.67	
J	e	s	s	e	J	a	m	e	s	R	d	→
3.43	10.23	16.13	21.03	26.13	37.23	43.83	50.33	60.13	66.03	76.23	81.67	91.75

2070 INPUT FILE ASSIGNMENTS

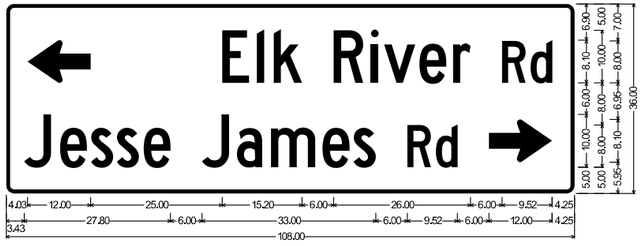
	CHANNEL	1	2	3	4	5	6	7	8	9	10	11	12	13	14
"I"	U	Ø1	Ø2			Ø4									
	L														
"J"	U	Ø5	Ø6			Ø8									
	L														

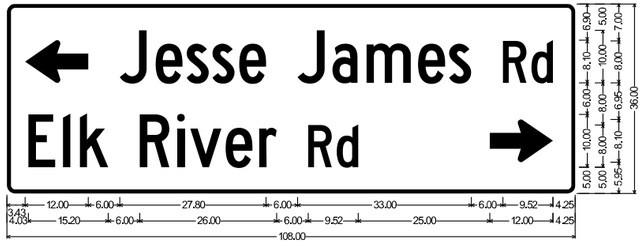
TOTAL NUMBER OF DETECTOR CARDS(2-CHANNEL) = (4)

2070 OUTPUT FILE ASSIGNMENTS

FR1	PH 1	PH 2	2 PED	PH 3	PH 4	4 PED	MONITOR
	RL	R			R		
FR2	YL	Y	PH 1 L		Y		
	FYL	G			G		
FR3	PH 5	PH 6	6 PED	PH 7	PH 8	8 PED	
	RL	R			R		
FR4	YL	Y	PH 5 L		Y		
	FYL	G			G		

* NOTE: LEFT TURN "L" SHALL BE WIRED INTO PEDESTRIAN AMBER IN LOAD SWITCH





D3-1 SH-FLAT SHEET;
1.50" Radius, 0.75" Border, White on Green;
Standard Arrow Custom 12.00" X 8.10" 180°; "Jesse James", C 2K; "Rd", C 2K; "Elk River", C 2K; "Rd", C 2K;
Standard Arrow Custom 12.00" X 8.10" 0°;
Table of letter and object lefts

←	J	e	s	s	e	J	a	m	e	s	R	d	
3.43	21.43	28.23	34.13	39.03	44.13	55.23	61.83	68.33	78.13	84.03	94.23	99.67	
E	l	k	R	i	v	e	r	R	d	→			
4.03	10.63	13.83	25.23	32.33	34.83	41.53	47.93	57.23	62.67	91.75			

BUS 71 AND RTE W (SOUTH JESSE JAMES RD./ELK RIVER RD.)
SIGNAL PLAN
SHEET 58 OF 60

D-37C

CLAIRE E. MCKINNEY NUMBER PE-2022028959 STATE OF MISSOURI PROFESSIONAL ENGINEER

DATE PREPARED 2/26/2026
ROUTE VAR. | STATE MO
DISTRICT SW | SHEET NO. 90
COUNTY VARIOUS
JOB NO. J7P3529
CONTRACT ID.
PROJECT NO.
BRIDGE NO.

DESCRIPTION | DATE

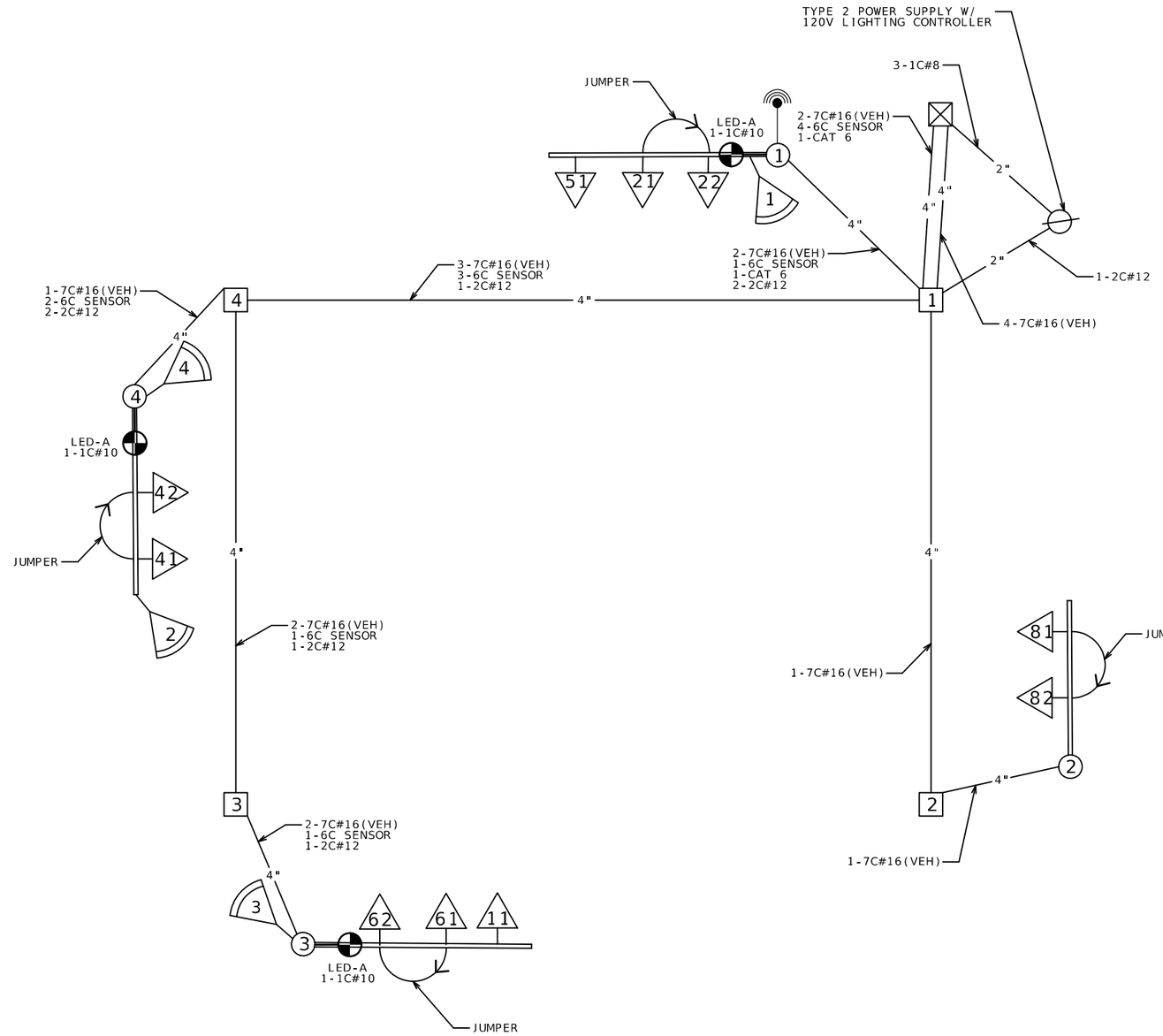
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

GARVER, LLC.
7509 NW TIFFANY SPRINGS
PARKWAY, SUITE 200
KANSAS CITY, MO 64153
PHONE: (816) 298-6465
CERTIFICATE OF AUTHORITY
NO. 2008013090

EFFECTIVE: 12-01-2017

WIRING DIAGRAM

NOT TO SCALE



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
	RADAR DETECTOR
	WIRELESS RADIO

BUS 71 AND RTE W (SOUTH JESSE JAMES RD./ELK RIVER RD.)
SIGNAL PLAN
SHEET 59 OF 60

D-37D

STATE OF MISSOURI
CLAIRE E. MCKINNEY
NUMBER PE-2022028959
PROFESSIONAL ENGINEER

DATE PREPARED
2/26/2026

ROUTE	STATE
VAR.	MO
DISTRICT	SHEET NO.
SW	91

COUNTY
VARIOUS

JOB NO.
J7P3529

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION

DATE

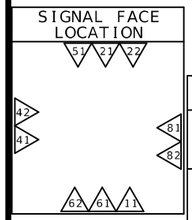
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

GARVER, LLC.
7509 NW TIFFANY SPRINGS PARKWAY, SUITE 200
KANSAS CITY, MO 64153
PHONE: (816) 298-6465
CERTIFICATE OF AUTHORITY NO. 2008013090

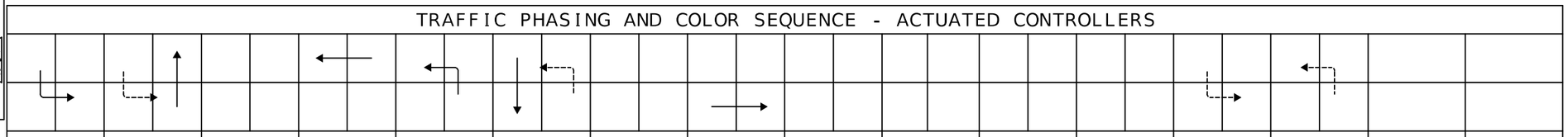
GARVER

EFFECTIVE: 12-01-2017

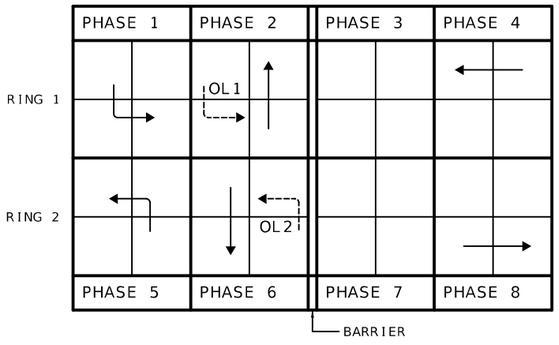
SIGNAL FACE LOCATION



TRAFFIC PHASING AND COLOR SEQUENCE - ACTUATED CONTROLLERS



		PHASE 1	PHASE 2	PHASE 3	PHASE 4	PHASE 5	PHASE 6	PHASE 7	PHASE 8	OVERLAP 1	OVERLAP 2	
FACE NUMBERS		11	21		41	51	61		81	11	51	FACE NUMBERS
			22		42		62		82			
SIGNAL INDICATIONS	R	RL	R		R	RL	R		R			R
	Y	YL	Y		Y	YL	Y		Y			Y
	FYA									FYL	FYL	FYA
	G	L	G		G	L	G		G			G
DETECTOR ASSIGNMENTS												DETECTOR ASSIGNMENTS
DETECTOR ASSIGNMENTS (PEDS. ONLY)												
OVERLAP PARENT PHASES										2	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	
ALL APPROACHES	FR

CONTROLLER TYPE	2070

TRAFFIC SIGNAL CONTROL OPERATION

BUS 71 AND RTE W (SOUTH JESSE JAMES RD./ELK RIVER RD.)
SIGNAL PLAN
SHEET 60 OF 60

D-38A

CLAIRE E. MCKINNEY NUMBER PE-2022028959 STATE OF MISSOURI PROFESSIONAL ENGINEER

DATE PREPARED 2/26/2026

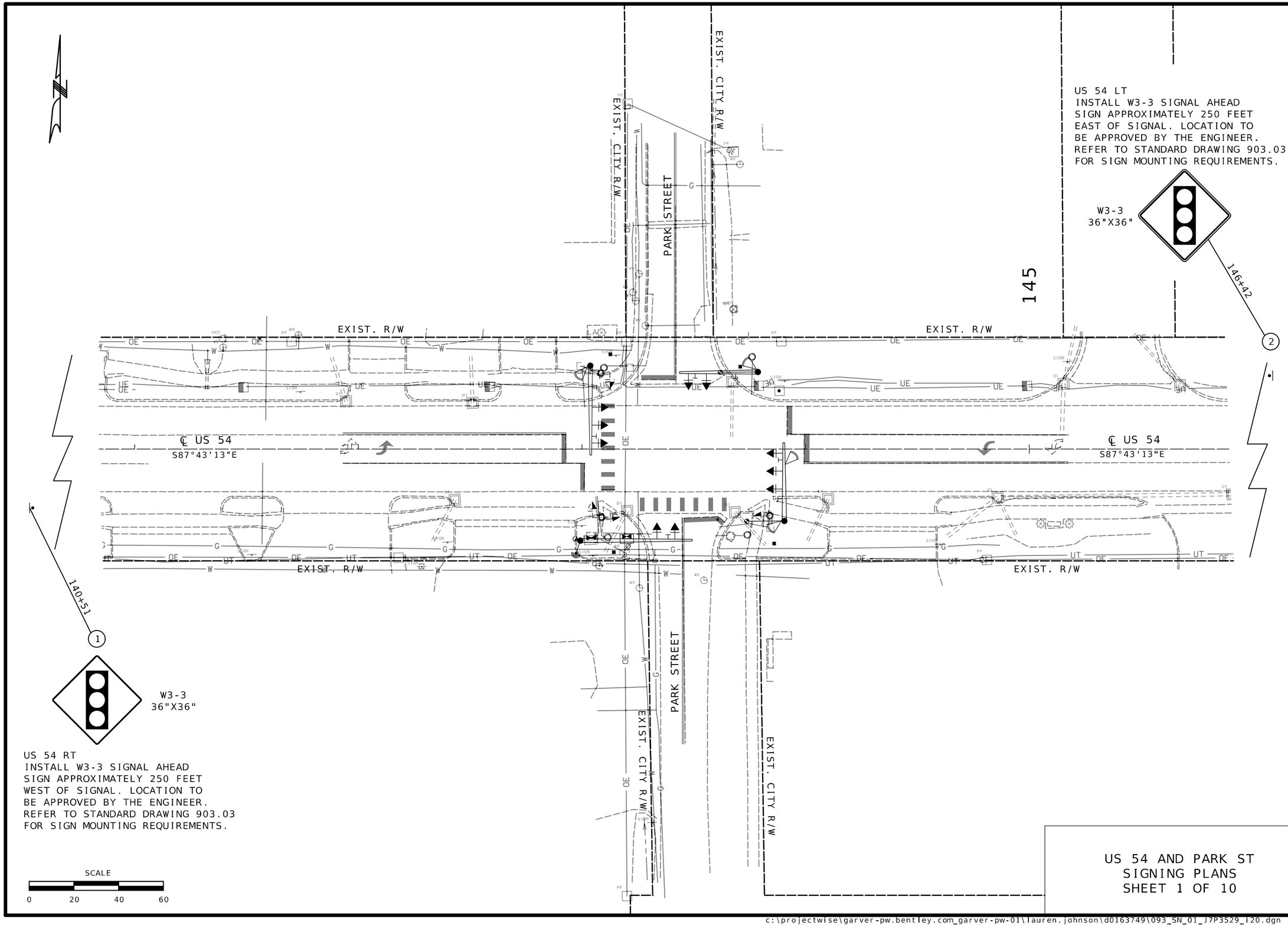
ROUTE	STATE
VAR.	MO
DISTRICT	SHEET NO.
SW	92

COUNTY: VARIOUS
JOB NO.: J7P3529
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)

GARVER, LLC.
7509 NW TIFFANY SPRINGS
PARKWAY, SUITE 200
KANSAS CITY, MO 64153
PHONE: (816) 298-5465
CERTIFICATE OF AUTHORITY
NO. 2008013090



US 54 LT
INSTALL W3-3 SIGNAL AHEAD
SIGN APPROXIMATELY 250 FEET
EAST OF SIGNAL. LOCATION TO
BE APPROVED BY THE ENGINEER.
REFER TO STANDARD DRAWING 903.03
FOR SIGN MOUNTING REQUIREMENTS.

W3-3
36"X36"

W3-3
36"X36"

US 54 RT
INSTALL W3-3 SIGNAL AHEAD
SIGN APPROXIMATELY 250 FEET
WEST OF SIGNAL. LOCATION TO
BE APPROVED BY THE ENGINEER.
REFER TO STANDARD DRAWING 903.03
FOR SIGN MOUNTING REQUIREMENTS.

SCALE
0 20 40 60

US 54 AND PARK ST
SIGNING PLANS
SHEET 1 OF 10

STATE OF MISSOURI
DONALD THOMAS SAIKO
NUMBER PE-28475
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED
2/13/2026

ROUTE	STATE
VAR.	MO
DISTRICT	SHEET NO.
SW	93

COUNTY
VARIOUS

JOB NO.
J7P3529

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)

GARVER, LLC.
7509 NW TIFFANY SPRINGS
PARKWAY, SUITE 200
KANSAS CITY, MO 64153
PHONE: (816) 298-6465
CERTIFICATE OF AUTHORITY
NO. 2008013090

GARVER

SCALE
0 20 40 60

40th STREET

41st STREET

START STA 34+00.00

MATCHLINE STA. 38+60.00

34+55 APPROX.

35 MPH

DO NOT ENTER (UIP)

℄ MO 43 (MAIN ST.)
S 01°58'48"W

OLD MAIN ST.

R4-7
24"X30"

OM1-1
18"X18"

TURNING TRAFFIC MUST YIELD TO PEDESTRIANS (UIP)

R6-1R
36"X12"
ONE WAY

ONE WAY (R)

38+06
2' RT
3

38+15

38+27
5' LT
4

(R)

38+29

38+24

34+46 APPROX.

(UIP)
ON
LIGHT POLE

36+30
1' RT
5

36+26
54' RT
(LIGHT POLE)
6

36+26

36+31

S1-1
36"X36"

W16-9P
30"X18"
AHEAD

AHEAD (R)

37+50
1' RT
7

R5-1
36"X36"
DO NOT ENTER

DO NOT ENTER (R)

37+63

STOP (UIP)
ON
LIGHT POLE

38+03

38+20
51' RT
8

R6-1L
36"X12"
ONE WAY

38+33

(R)
ONE WAY

MO 43 AND 41ST STREET
SIGNING PLANS
SHEET 2 OF 10

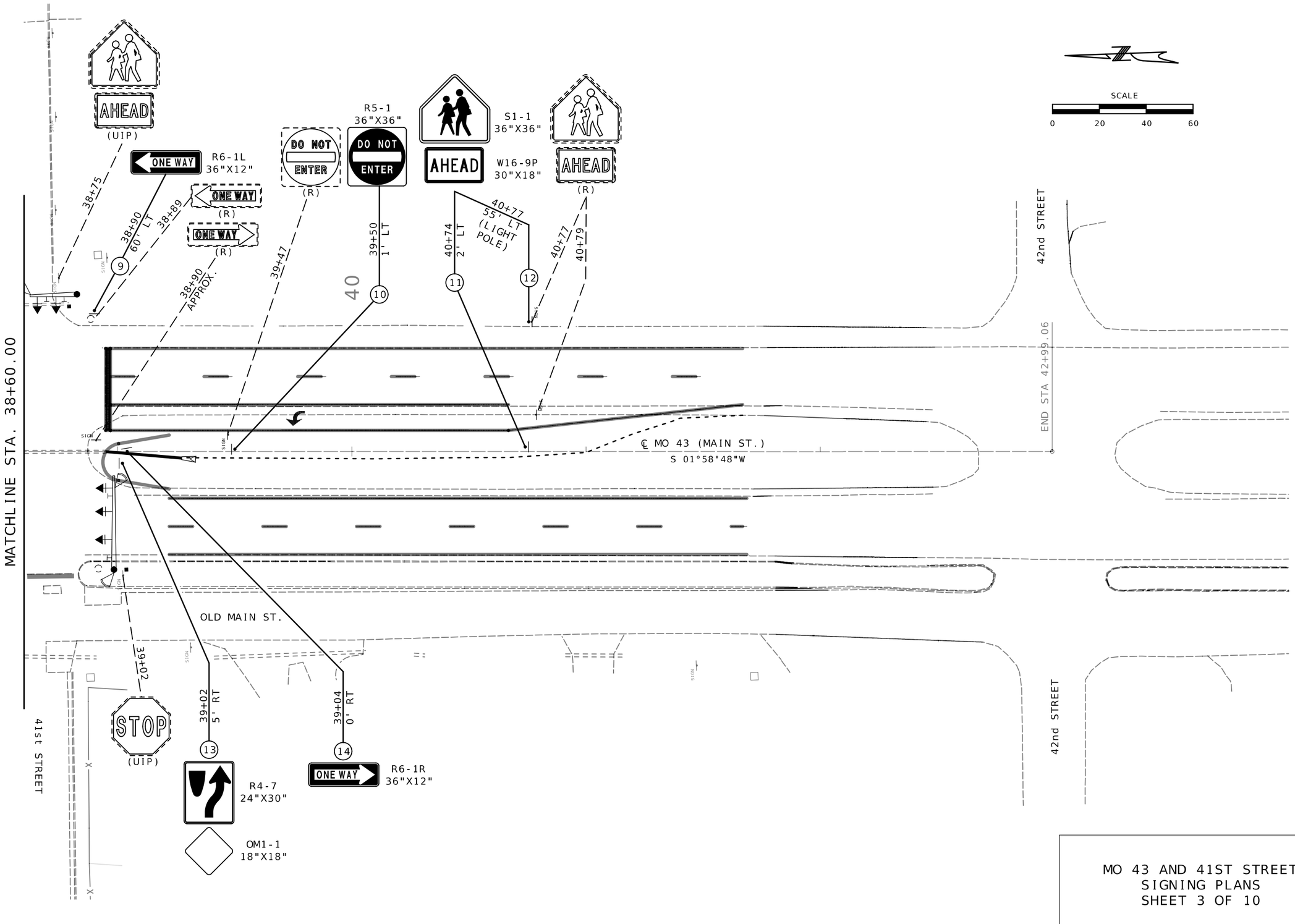
STATE OF MISSOURI
DONALD THOMAS SAIKO
NUMBER PE-28475
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED: 2/13/2026
ROUTE: VAR. | STATE: MO
DISTRICT: SW | SHEET NO.: 94
COUNTY: VARIOUS
JOB NO.: J7P3529
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)

GARVER, LLC.
7509 NW TIFFANY SPRINGS PARKWAY, SUITE 200
KANSAS CITY, MO 64153
PHONE: (816) 298-6465
CERTIFICATE OF AUTHORITY NO. 2008013090



MO 43 AND 41ST STREET
SIGNING PLANS
SHEET 3 OF 10

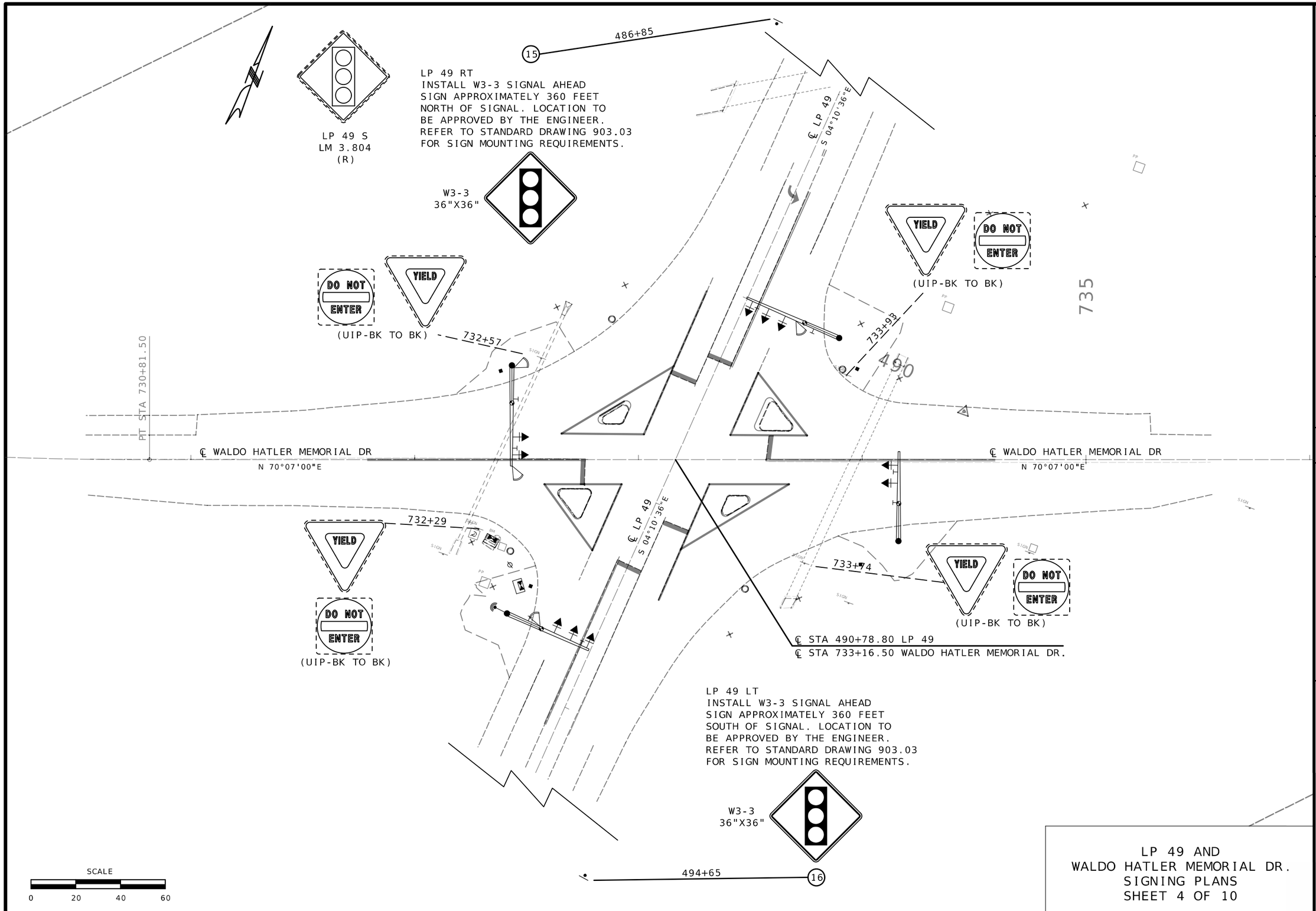
STATE OF MISSOURI
DONALD THOMAS SAIKO
NUMBER PE-28475
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED 2/13/2026
ROUTE VAR. | STATE MO
DISTRICT SW | SHEET NO. 95
COUNTY VARIOUS
JOB NO. J7P3529
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)

GARVER, LLC.
7509 NW TIFFANY SPRINGS PARKWAY, SUITE 200
KANSAS CITY, MO 64153
PHONE: (816) 298-6465
CERTIFICATE OF AUTHORITY NO. 2008013090



STATE OF MISSOURI
DONALD THOMAS SAIKO
NUMBER PE-28475
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED
2/13/2026

ROUTE	STATE
VAR.	MO
DISTRICT	SHEET NO.
SW	96

COUNTY
VARIOUS

JOB NO.
J7P3529

CONTRACT ID.

PROJECT NO.

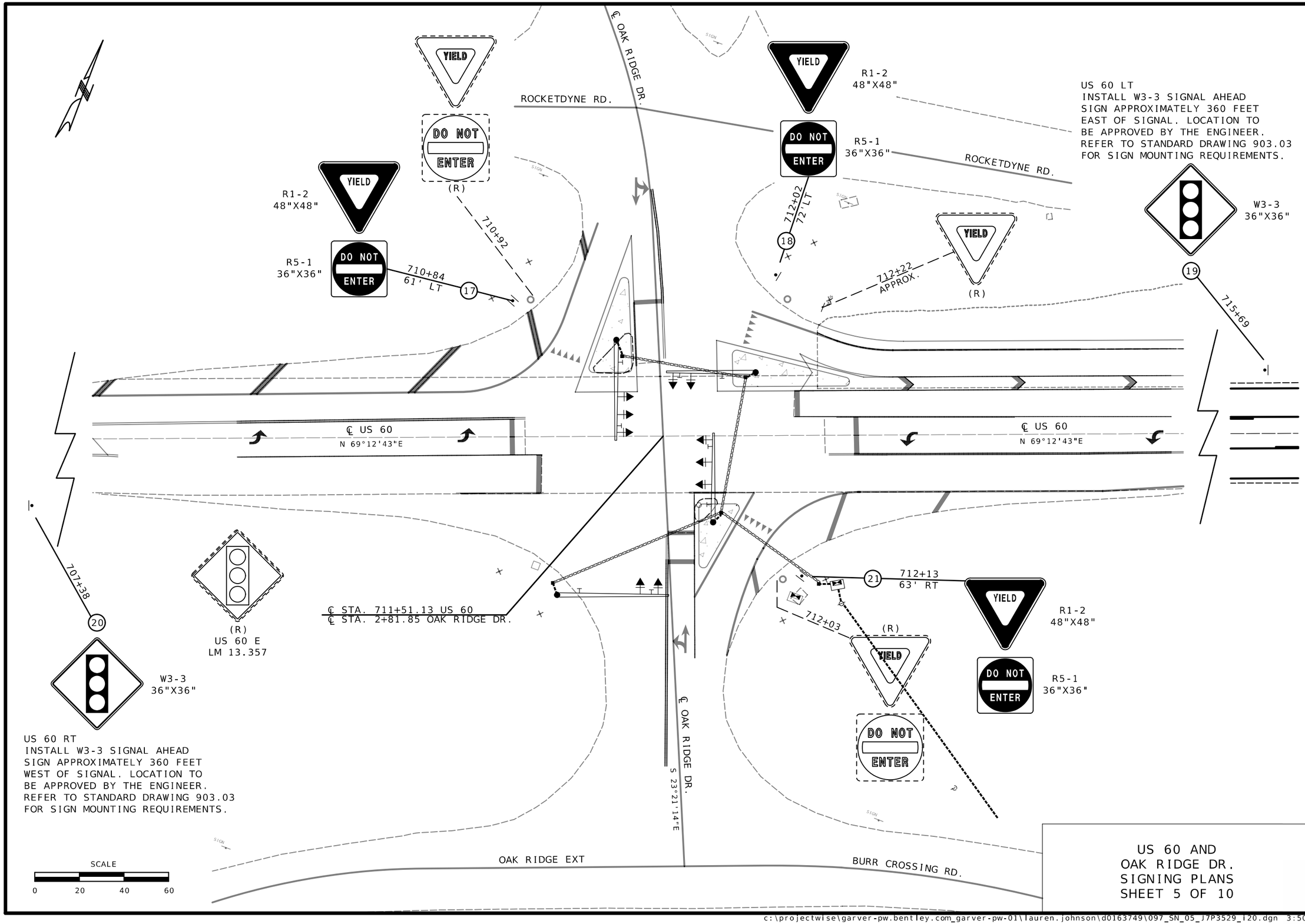
BRIDGE NO.

DESCRIPTION	DATE

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

GARVER, LLC.
7509 NW TIFFANY SPRINGS
PARKWAY, SUITE 200
KANSAS CITY, MO 64153
PHONE: (816) 298-6465
CERTIFICATE OF AUTHORITY
NO. 2008013090

LP 49 AND WALDO HATLER MEMORIAL DR. SIGNING PLANS SHEET 4 OF 10



US 60 AND
OAK RIDGE DR.
SIGNING PLANS
SHEET 5 OF 10

STATE OF MISSOURI
DONALD THOMAS SAIKO
NUMBER PE-28475
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED
2/13/2026

ROUTE	STATE
VAR.	MO
DISTRICT	SHEET NO.
SW	97

COUNTY
VARIOUS

JOB NO.
J7P3529

CONTRACT ID.

PROJECT NO.

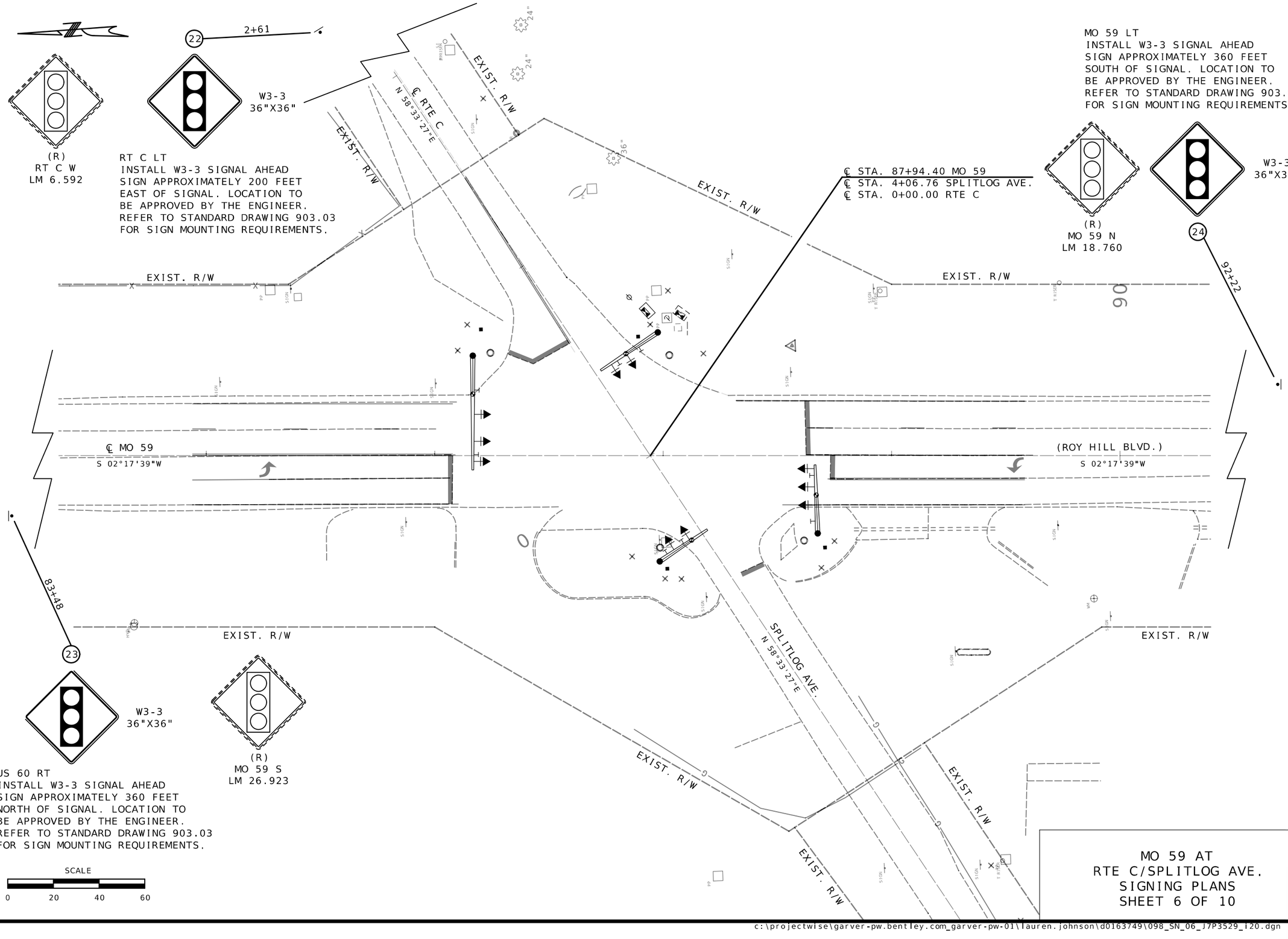
BRIDGE NO.

DESCRIPTION

DATE

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

GARVER, LLC.
7509 NW TIFFANY SPRINGS
PARKWAY, SUITE 200
KANSAS CITY, MO 64153
PHONE: (816) 298-6465
CERTIFICATE OF AUTHORITY
NO. 2008013090



MO 59 AT
RTE C/SPLITLOG AVE.
SIGNING PLANS
SHEET 6 OF 10

STATE OF MISSOURI
DONALD THOMAS SAIKO
NUMBER PE-28475
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED
2/13/2026

ROUTE	STATE
VAR.	MO
DISTRICT	SHEET NO.
SW	98

COUNTY
VARIOUS

JOB NO.
J7P3529

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION

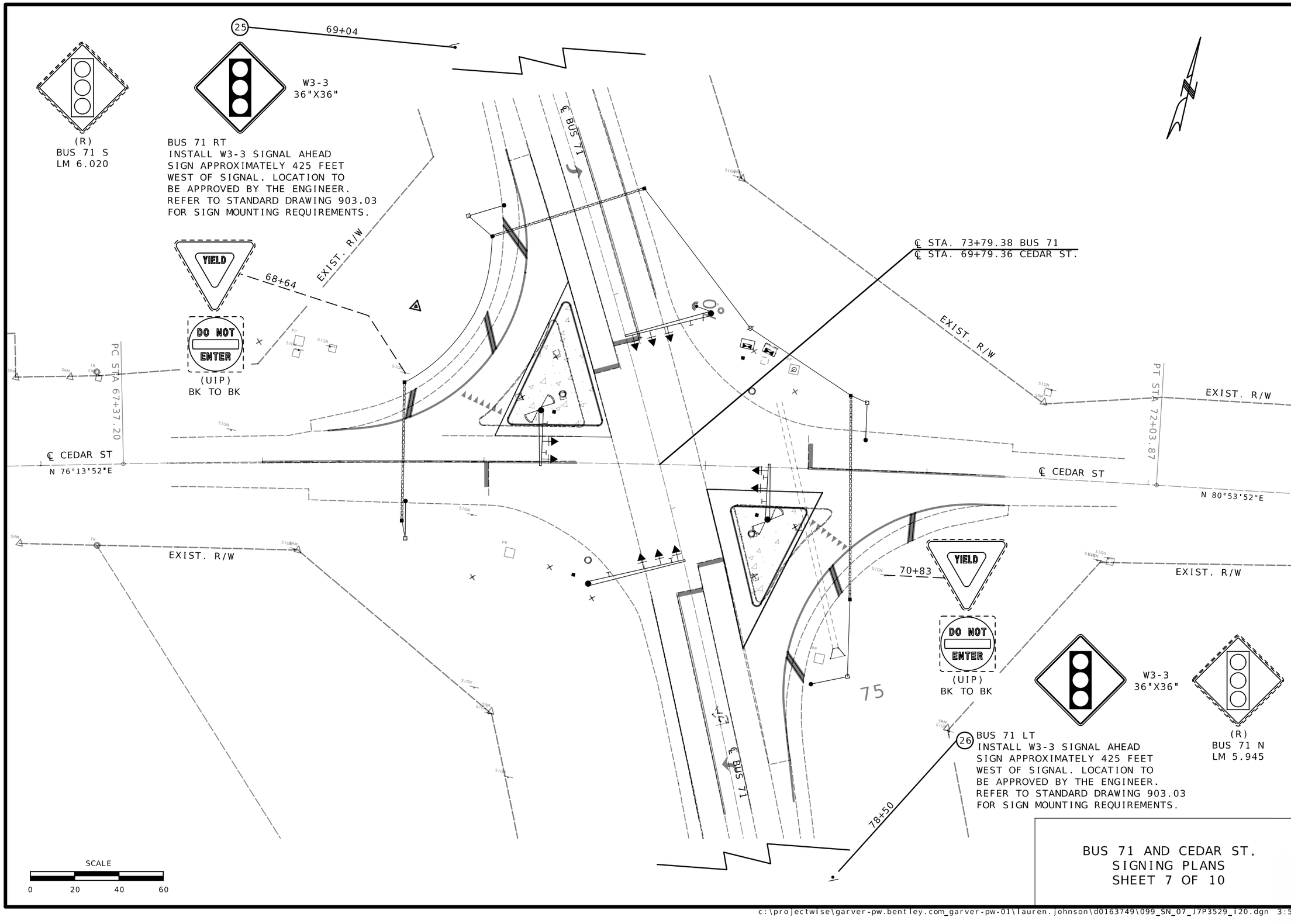
DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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

GARVER, LLC.
7509 NW TIFFANY SPRINGS
PARKWAY, SUITE 200
KANSAS CITY: MO 64153
PHONE: (816) 298-6465
CERTIFICATE OF AUTHORITY
NO. 2008013090

GARVER



BUS 71 AND CEDAR ST.
SIGNING PLANS
SHEET 7 OF 10

STATE OF MISSOURI
DONALD THOMAS SAIKO
NUMBER PE-28475
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED
2/13/2026

ROUTE	STATE
VAR.	MO
DISTRICT	SHEET NO.
SW	99

COUNTY
VARIOUS

JOB NO.
J7P3529

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)

GARVER, LLC.
7509 NW TIFFANY SPRINGS
PARKWAY, SUITE 200
KANSAS CITY, MO 64153
PHONE: (816) 298-6465
CERTIFICATE OF AUTHORITY
NO. 2008013090

EXIST. R/W

℄ BUS 71

S 33°40'40" E

START STA 0+00.00

295+00

EXIST. R/W

YIELD

DO NOT ENTER

(R)

295+07

YIELD

R1-2
48"X48"

DO NOT ENTER

R5-1
36"X36"

295+08
50' LT

27

PC STA 1+94.30

EXIST. R/W

(UIP) HINGED STOP SIGN

SOUTH JESSE JAMES RD.

℄ RTE W

N 56°19'20" E

EXIST. R/W

ELK RIVER RD.

℄ STA. 295+50.00 BUS 71
℄ STA. 0+00.00 RT W

(UIP) HINGED STOP SIGN

EXIST. R/W

(R)

296+02

YIELD

28

296+04

(UIP) STATE PARK 47' LT

(UIP) MISSOURI

YIELD

R1-2
48"X48"

DO NOT ENTER

R5-1
36"X36"

EXIST. R/W

EXIST. R/W

EXIST. R/W

SCALE

0 20 40 60

BUS 71 AND RTE W
(SOUTH JESSE JAMES RD./
ELK RIVER RD.)
SIGNING PLANS
SHEET 8 OF 10

STATE OF MISSOURI
DONALD THOMAS SAIKO
NUMBER PE-28475
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED
2/13/2026

ROUTE	STATE
VAR.	MO
DISTRICT	SHEET NO.
SW	100

COUNTY
VARIOUS

JOB NO.
J7P3529

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)

GARVER, LLC.
7509 NW TIFFANY SPRINGS
PARKWAY, SUITE 200
KANSAS CITY, MO 64153
PHONE: (816) 298-6465
CERTIFICATE OF AUTHORITY
NO. 2008013090

GARVER

c:\projectwise\garver-pw.bentley.com_garver-pw-01\lauren.johnson\d0163749\100_SN_08_J7P3529_i20.dgn 3:53:08 PM 2/13/2026

SIGNS (902 SIGNAL SIGNS TABULATED ON D-37A SHEET)						CONCRETE FOOTINGS EMBEDDED	STRUCTURAL STEEL POSTS*						PIPE POSTS*					BACKING BARS**				U-CHANNEL POST	PERFORATED SQUARE STEEL TUBE												BREAK-AWAY ASSEMBLY	REMARKS AND AND OTHER REQUIRED ITEMS
																							2-INCH POST						2.5-INCH POST								
																									TOTAL	ANCHORS					TOTAL	2.25" INSERT (6 FT)	ANCHORS				
SIGN NO.	SIGN SIZE	STATION OR LOG MILE	HORIZ CLEAR IF NOT STD	LOCATION	SIGN DTL SHT NO.	ITEM NO.	POST DES NO.	POST NO.1	POST NO.2	POST NO.3	LBS PER FT	TOTAL ITEM NO.	PIPE SIZE	POST NO.1	POST NO.2	LBS PER FT	TOTAL ITEM NO.	2" X 3/8" BARS AT 2.55 LBS/FT NO.	LGTH	TOTAL	TOTAL	ITEM NO.	POST NO.1	POST NO.2	ITEM NO.	DRIVEN 12 GA. ITEM NO.	DRIVEN 7 GA. ITEM NO.	CONCRETE 7 GA. ITEM NO.	POST NO.1	POST NO.2	ITEM NO.	ITEM NO.	DRIVEN 7 GA. ITEM NO.	CONCRETE 7 GA. ITEM NO.	ITEM NO.	
						CY		LF	LF	LF		LBS	IN	LF	LF		LBS	EACH	IN.	LF	LBS	LF	LF	LF		EACH	EACH	EACH								EACH	
US 54 AT PARK ST																																				
1	36X36	140+51		US 54 RT																									16		16			1	1	
2	36X36	146+42		US 54 LT																									16		16			1	1	
US 54 AT PARK ST SUBTOTALS																													32		32			2	2	
MO 43 (MAIN ST) AT 41st ST																																				
3	36X12	38+06		MO 43 RT																									16		16			1	1	
4	ASSEMBLY	38+27		MO 43 LT																									16		16			1	1	
5	ASSEMBLY	36+30		MO 43 RT																									16		16			1	1	
6	ASSEMBLY	36+26		MO 43 RT																																ON LIGHT POLE
7	36X36	37+50		MO 43 RT																									16		16			1	1	
8	36X12	38+20		MO 43 RT																									16		16			1	1	
9	36X12	38+90		MO 43 LT																									16		16			1	1	
10	36X36	39+50		MO 43 LT																									16		16			1	1	
11	ASSEMBLY	40+74		MO 43 LT																									16		16			1	1	
12	ASSEMBLY	40+77		MO 43 LT																																ON LIGHT POLE
13	ASSEMBLY	39+02		MO 43 RT																									16		16			1	1	
14	36X12	39+04		MO 43 RT																									16		16			1	1	
MO 43 (MAIN ST) AT 41st ST SUBTOTALS																													160		160			10	10	
LP 49 AT WALDO HATLER MEMORIAL DR																																				
15	36X36	486+85		LP 49 RT																									16		16			1	1	
16	36X36	494+65		LP 49 LT																									16		16			1	1	
LP 49 AT WALDO HATLER MEMORIAL DR SUBTOTALS																													32		32			2	2	
US 60 AT OAK RIDGE DR																																				
17	ASSEMBLY	710+84		US 60 LT																									16		16			1	1	
18	ASSEMBLY	712+02		US 60 LT																									16		16			1	1	
19	36X36	715+69		US 60 LT																									16		16			1	1	
20	36X36	707+38		US 60 RT																									16		16			1	1	
21	ASSEMBLY	712+13		US 60 RT																									16		16			1	1	
US 60 AT OAK RIDGE DR SUBTOTALS																													80		80			5	5	
MO 59 AT ROUTE C																																				
22	36X36	2+61		RTE C LT																									16		16			1	1	
23	36X36	83+48		MO 59 RT																									16		16			1	1	
24	36X36	92+22		MO 59 LT																									16		16			1	1	
MO 59 AT ROUTE C SUBTOTALS																													48		48			3	3	
BUS 71 AT CEDAR ST																																				
25	36X36	69+04		BUS 71 RT																									16		16			1	1	
26	36X36	78+50		BUS 71 LT																									16		16			1	1	
BUS 71 AT CEDAR ST SUBTOTALS																													32		32			2	2	
BUS 71 AT ROUTE W																																				
27	ASSEMBLY	295+08		BUS 71 LT																									16		16			1	1	
28	ASSEMBLY	296+04		BUS 71 LT																									16		16			1	1	
BUS 71 AT ROUTE W SUBTOTALS																													32		32			2	2	
PROJECT TOTALS																													416		416			26	26	

EFFECTIVE: 07-01-2024

STATE OF MISSOURI
CLAIRE E. MCKINNEY
NUMBER PE-2022028959
PROFESSIONAL ENGINEER

DATE PREPARED
4/6/2026

ROUTE VAR. | STATE MO
DISTRICT SW | SHEET NO. 101
COUNTY VARIOUS
JOB NO. J7P3529
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)

GARVER, LLC.
7509 NW TIFFANY SPRINGS
PARKWAY, SUITE 200
KANSAS CITY, MO 64153
PHONE: (816) 298-6465
CERTIFICATE OF AUTHORITY
NO. 2008013090

SIGNING PLANS
SHEET 9 OF 10

c:\projectwise\garver-pw.bentley.com_garver-pw-01\d0163749\101_SN_09_J7P3529_i1_D-29.dgn 8:46:21 PM 4/6/2026

STANDARD SIGN ASSEMBLIES

SIGN NO.	STATION OR LOG MILE	LOCATION	SIGN, TYPE, DESIGNATION, SIZE & NUMBER OF EACH										
			YIELD		DO NOT ENTER	ONE WAY	ONE WAY				AHEAD		
			SH R1-2 48 X 48	SH R4-7 24 x 30	SH R5-1 36 X 36	SH R6-1R 36 X 12	SH R6-1L 36 X 12	SHF OM1-1 18 X 18	SHF S1-1 36 X 36	SHF W3-3 36 X 36	SHF W16-9P 30 X 18		
1	140+51	US 54 RT								1			
2	146+42	US 54 LT								1			
3	38+06	MO 43 RT				1							
4	38+27	MO 43 LT		1				1					
5	36+30	MO 43 RT							1		1		
6	36+26	MO 43 RT							1		1		
7	37+50	MO 43 RT			1								
8	38+20	MO 43 RT					1						
9	38+90	MO 43 LT					1						
10	39+50	MO 43 LT			1								
11	40+74	MO 43 LT							1		1		
12	40+77	MO 43 LT							1		1		
13	39+02	MO 43 RT		1				1					
14	39+04	MO 43 RT				1							
15	486+85	LP 49 RT								1			
16	494+65	LP 49 LT								1			
17	710+84	US 60 LT	1		1								
18	712+02	US 60 LT	1		1								
19	715+69	US 60 LT								1			
20	707+38	US 60 RT								1			
21	712+13	US 60 RT	1		1								
22	2+61	RTE C LT								1			
23	83+48	MO 59 RT								1			
24	92+22	MO 59 LT								1			
25	69+04	BUS 71 RT								1			
26	78+50	BUS 71 LT								1			
27	295+08	BUS 71 LT	1		1								
28	296+04	BUS 71 LT	1		1								
		TOTALS	5	2	7	2	2	2	4	11	4		

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
R1-2	YIELD		5	48 X 48	80.00			
R4-7	KEEP RIGHT		2	24 x 30	10.00			
R5-1	DO NOT ENTER		7	36 X 36	63.00			
R6-1R	ONE-WAY RIGHT		2	36 X 12	6.00			
R6-1L	ONE-WAY LEFT		2	36 X 12	6.00			
OM1-1	OBJECT MARKER		2	18 X 18		4.50		
S1-1	SCHOOL		4	36 X 36		36.00		
W3-3	SIGNAL AHEAD		11	36 X 36		99.00		
W16-9P	AHEAD		4	30 X 18		15.00		
SUBTOTALS-FOR INFORMATION ONLY								
US 54 AT PARK ST						18.00		
MO 43 (MAIN ST) AT 41st ST					40.00	55.50		
LP 49 AT WALDO HATLER						18.00		
US 60 AT OAK RIDGE DR					75.00	18.00		
MO 59 AT ROUTE C						27.00		
BUS 71 AT CEDAR ST						18.00		
BUS 71 AT ROUTE W					50.00			
				TOTALS	165	155		

*ORANGE, YELLOW AND YELLOW-GREEN

STATE OF MISSOURI
CLAIRE E. MCKINNEY NUMBER PE-2022028959
PROFESSIONAL ENGINEER

DATE PREPARED: 4/6/2026
ROUTE: VAR. | STATE: MO
DISTRICT: SW | SHEET NO.: 102
COUNTY: VARIOUS
JOB NO.: J7P3529
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)

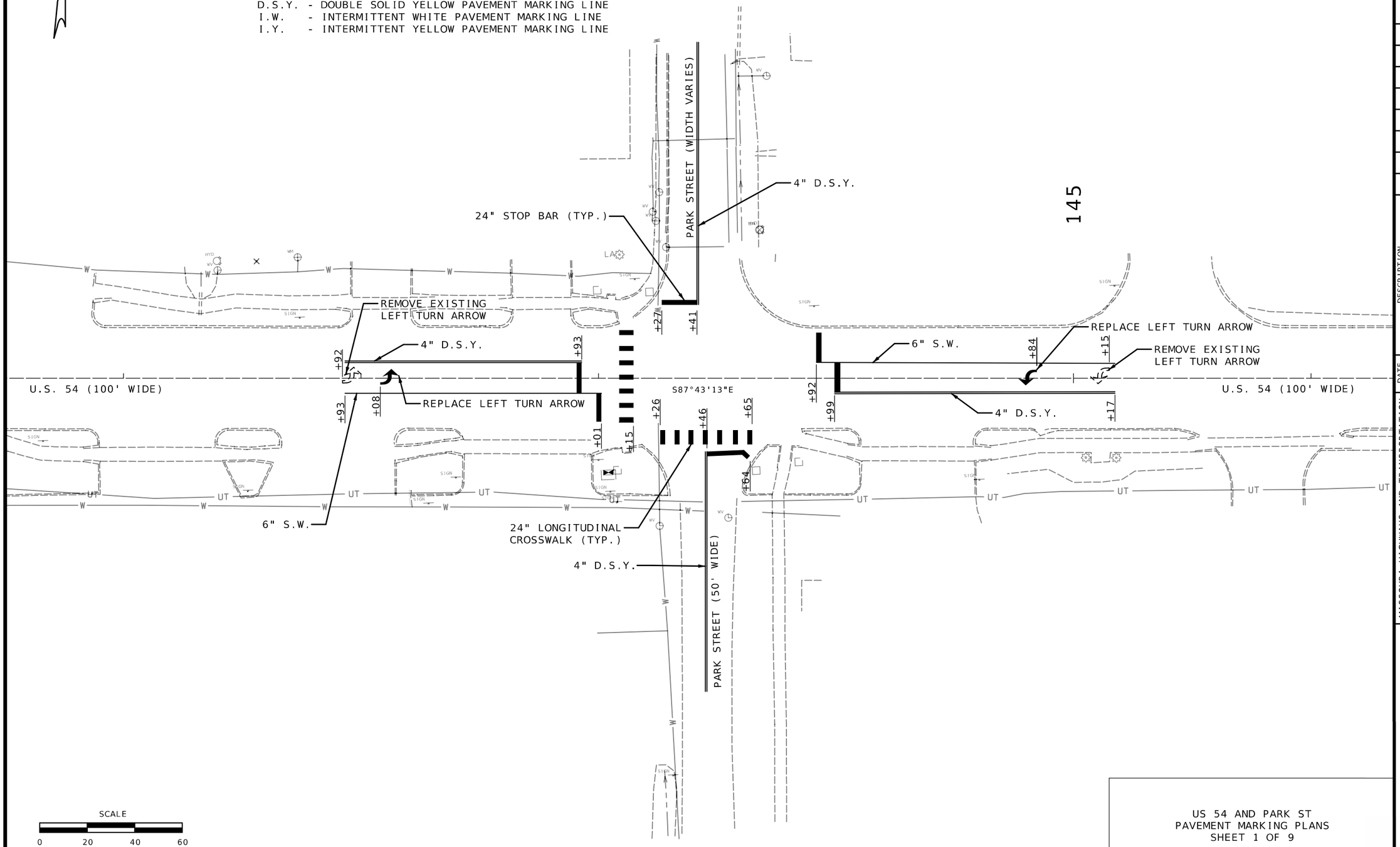
GARVER, LLC.
7509 NW TIFFANY SPRINGS
PARKWAY, SUITE 200
KANSAS CITY, MO 64153
PHONE: (816) 298-6465
CERTIFICATE OF AUTHORITY
NO. 2008013090

SIGNING PLANS
SHEET 10 OF 10

c:\projectwise\garver-pw.bentley.com_garver-pw-01\d0163749\102_SN_10_J7P3529_i1_D-30.dgn 8:47:59 PM 4/6/2026

PAVEMENT MARKING LEGEND

S.W. - SOLID WHITE PAVEMENT MARKING LINE
S.Y. - SOLID YELLOW PAVEMENT MARKING LINE
D.W. - DOTTED WHITE PAVEMENT MARKING LINE
D.S.Y. - DOUBLE SOLID YELLOW PAVEMENT MARKING LINE
I.W. - INTERMITTENT WHITE PAVEMENT MARKING LINE
I.Y. - INTERMITTENT YELLOW PAVEMENT MARKING LINE



US 54 AND PARK ST
PAVEMENT MARKING PLANS
SHEET 1 OF 9

STATE OF MISSOURI
DONALD THOMAS SAIKO
NUMBER PE-28475
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED: 2/13/2026
ROUTE: VAR. | STATE: MO
DISTRICT: SW | SHEET NO.: 103
COUNTY: VARIOUS
JOB NO.: J7P3529
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)

GARVER, LLC.
7509 NW TIFFANY SPRINGS PARKWAY, SUITE 200
KANSAS CITY, MO 64153
PHONE: (816) 298-6465
CERTIFICATE OF AUTHORITY NO. 2008013090

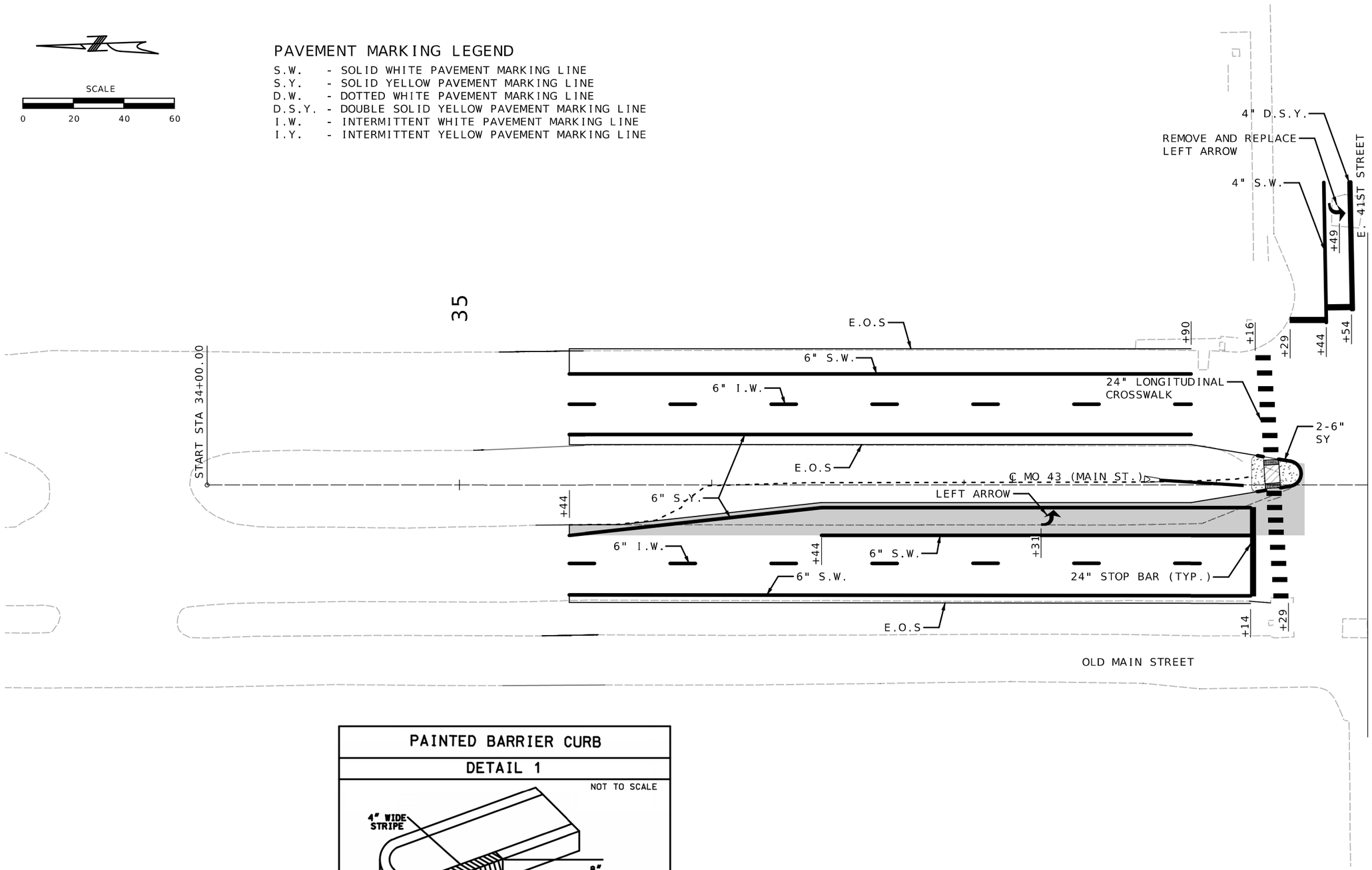
c:\projectwise\garver-pw.bentley.com_garver-pw-01\d0163749\103_PM_01_J7P3529_120.dgn 3:51:52 PM 2/13/2026

SCALE

0 20 40 60

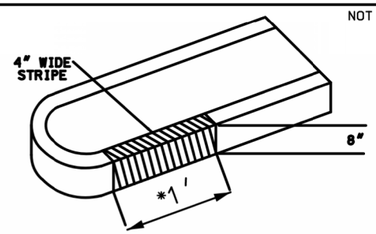
PAVEMENT MARKING LEGEND

S.W. - SOLID WHITE PAVEMENT MARKING LINE
S.Y. - SOLID YELLOW PAVEMENT MARKING LINE
D.W. - DOTTED WHITE PAVEMENT MARKING LINE
D.S.Y. - DOUBLE SOLID YELLOW PAVEMENT MARKING LINE
I.W. - INTERMITTENT WHITE PAVEMENT MARKING LINE
I.Y. - INTERMITTENT YELLOW PAVEMENT MARKING LINE



PAINTED BARRIER CURB
DETAIL 1

NOT TO SCALE



NOTE:
* ONE LINEAR FOOT OF CURB INCLUDES 4" WIDE STRIPE ON TOP OF CURB (MEDIAN OR ISLAND) AND THE HEIGHT OF VERTICAL FACE OF CURB.

MO 43 AND 41ST
PAVEMENT MARKING PLANS
SHEET 2 OF 9

STATE OF MISSOURI
DONALD THOMAS SAIKO
NUMBER PE-28475
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED 2/13/2026
ROUTE VAR. | STATE MO
DISTRICT SW | SHEET NO. 104
COUNTY VARIOUS
JOB NO. J7P3529
CONTRACT ID.
PROJECT NO.
BRIDGE NO.

DESCRIPTION | DATE

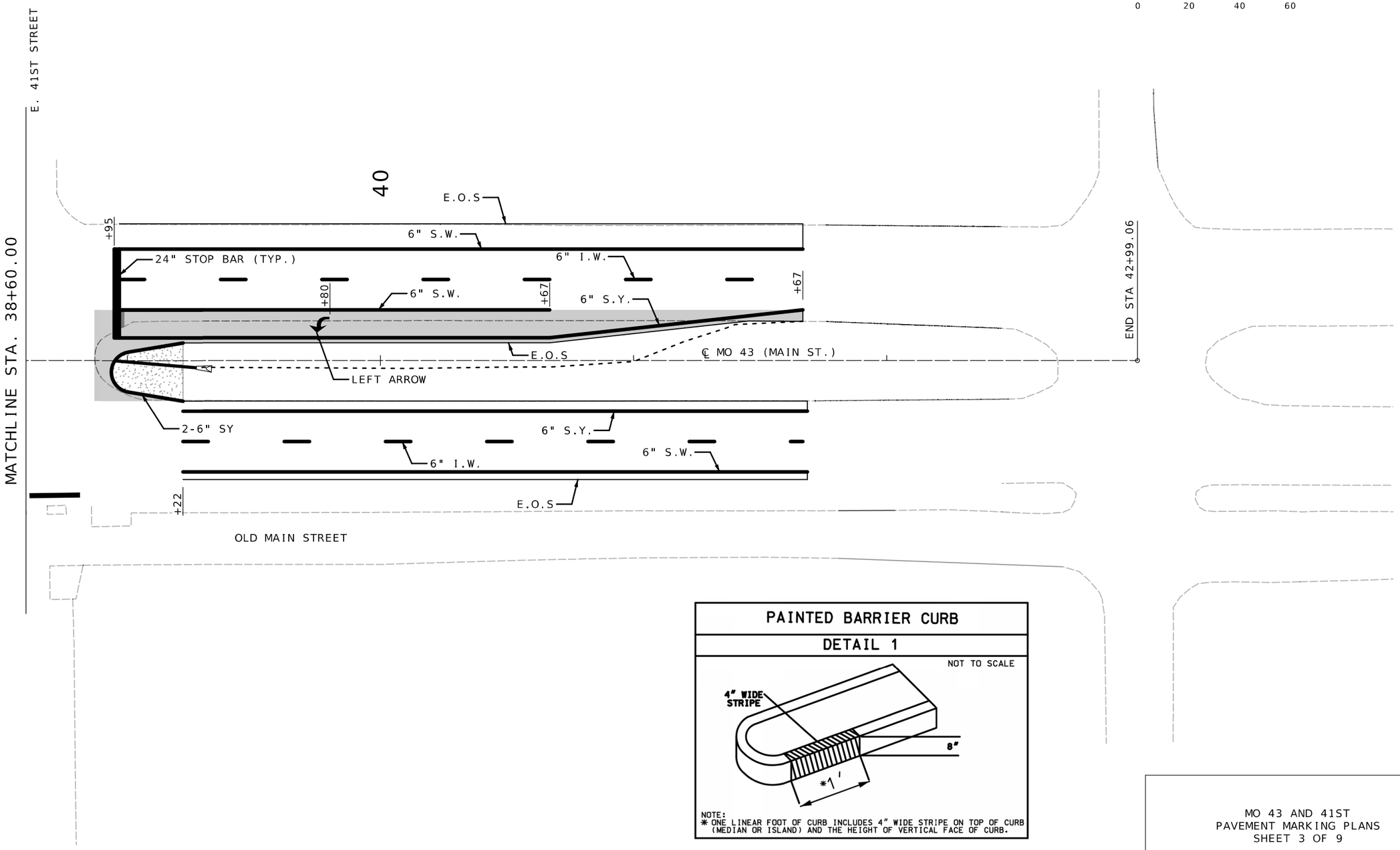
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

GARVER, LLC.
7509 NW TIFFANY SPRINGS PARKWAY, SUITE 200
KANSAS CITY, MO 64153
PHONE: (816) 298-6465
CERTIFICATE OF AUTHORITY NO. 2008013090

PAVEMENT MARKING LEGEND

S.W. - SOLID WHITE PAVEMENT MARKING
S.Y. - SOLID YELLOW PAVEMENT MARKING
D.S.Y. - DOUBLE SOLID YELLOW PAVEMENT MARKING
I.W. - INTERMITTENT WHITE PAVEMENT MARKING
I.Y. - INTERMITTENT YELLOW PAVEMENT MARKING

SCALE
0 20 40 60



PAINTED BARRIER CURB
DETAIL 1

NOT TO SCALE

NOTE:
* ONE LINEAR FOOT OF CURB INCLUDES 4" WIDE STRIPE ON TOP OF CURB (MEDIAN OR ISLAND) AND THE HEIGHT OF VERTICAL FACE OF CURB.

MO 43 AND 41ST
PAVEMENT MARKING PLANS
SHEET 3 OF 9

STATE OF MISSOURI
DONALD THOMAS SAIKO
NUMBER PE-28475
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED: 2/13/2026
ROUTE: VAR. | STATE: MO
DISTRICT: SW | SHEET NO.: 105
COUNTY: VARIOUS
JOB NO.: J7P3529
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)

GARVER, LLC.
7509 NW TIFFANY SPRINGS PARKWAY, SUITE 200
KANSAS CITY, MO 64153
PHONE: (816) 298-6465
CERTIFICATE OF AUTHORITY NO. 2008013090

SCALE
0 20 40 60

PAVEMENT MARKING LEGEND

S.W. - SOLID WHITE PAVEMENT MARKING LINE
S.Y. - SOLID YELLOW PAVEMENT MARKING LINE
D.W. - DOTTED WHITE PAVEMENT MARKING LINE
D.S.Y. - DOUBLE SOLID YELLOW PAVEMENT MARKING LINE
I.W. - INTERMITTENT WHITE PAVEMENT MARKING LINE
I.Y. - INTERMITTENT YELLOW PAVEMENT MARKING LINE

℄ WALDO HATLER MEMORIAL DRIVE
N70°07'00"E
℄ STA. 733+16.50 WALDO HATLER MEMEORIAL DRIVE
℄ STA. 490+78.80 LP 49
℄ LP 49
LP 49 (WIDTH VARIES)
S04°10'36"W
REMOVE AND REPLACE EXISTING LEFT TURN ARROW
24" STOP BAR (TYP.)
4" S.W.
4" D.S.Y.
4" D.S.Y.
WALDO HATLER MEMORIAL DRIVE (WIDTH VARIES) OLD U.S. HIGHWAY 60
490
735
PROPERTY N/F

LP 49 AND
WALDO HATLER MEMORIAL DR
PAVEMENT MARKING PLANS
SHEET 4 OF 9

STATE OF MISSOURI
DONALD THOMAS SAIKO
NUMBER PE-28475
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED 2/13/2026
ROUTE VAR. | STATE MO
DISTRICT SW | SHEET NO. 106
COUNTY VARIOUS
JOB NO. J7P3529
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)

GARVER, LLC.
7509 NW TIFFANY SPRINGS
PARKWAY, SUITE 200
KANSAS CITY, MO 64153
PHONE: (816) 298-6465
CERTIFICATE OF AUTHORITY
NO. 2008013090

c:\projectwise\garver-pw.bentley.com_garver-pw-01\d0163749\106_PM_04_J7P3529_i20.dgn 3:53:38 PM 2/13/2026

℄ STA. 1+33.93 OAK RIDGE DR.
℄ STA. 1+94.25 ROCKETDYNE RD

ROCKETDYNE RD
N69°59'13"E

ROCKETDYNE RD
N79°20'35"E

PC STA 3+97.55

PT STA 4+51.23

CURVE 1

CURVE 1	
PI	1+43.38
PC	0+99.32
PT	1+86.82
Δ	16°42'41.6" (RT)
D	19°5'54.9"
L	87.50' (ARC)
T	44.06'
R	300.00'

PT STA 1+86.82

4" D.S.Y.

6" S.W.

2X6" S.W.
6" S.W.

24"X36" YIELD LINE (TYP.)
R 50'

24" WHITE THERMOPLASTIC (TYP.)

710

6" S.W.
2X6" S.W.

24" WHITE THERMOPLASTIC (TYP.)

6" S.W.

4" D.S.Y.

6" S.W.

24" STOP BAR (TYP.)

N69°12'43"E

6" S.W.

R 50'

REMOVE AND REPLACE LEFT TURN ARROW (TYP.)

REMOVE AND REPLACE LEFT TURN ARROW (TYP.)

℄ US 60

4" D.S.Y.

6" S.W.

6" S.W.

6" S.W.

6" S.W.

2X6" S.W.

24" WHITE THERMOPLASTIC (TYP.)

℄ STA. 711+51.13 US 60
℄ STA. 2+81.85 OAK RIDGE DR.

4" D.S.Y.

6" S.W.

REMOVE AND REPLACE COMBINATION ARROW (TYP.)

S23°21'14"E

PT STA 1+61.21

PC STA 3+14.76

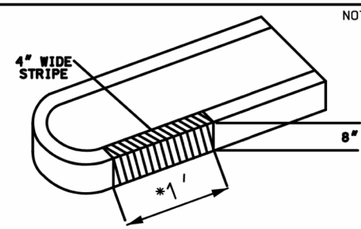
℄ OAK RIDGE DR

END STA 4+74.91

N68°59'53"E

PAINTED BARRIER CURB
DETAIL 1

NOT TO SCALE



NOTE:
* ONE LINEAR FOOT OF CURB INCLUDES 4" WIDE STRIPE ON TOP OF CURB (MEDIAN OR ISLAND) AND THE HEIGHT OF VERTICAL FACE OF CURB.

PAVEMENT MARKING LEGEND

S.W. - SOLID WHITE PAVEMENT MARKING LINE
S.Y. - SOLID YELLOW PAVEMENT MARKING LINE
D.W. - DOTTED WHITE PAVEMENT MARKING LINE
D.S.Y. - DOUBLE SOLID YELLOW PAVEMENT MARKING LINE
I.W. - INTERMITTENT WHITE PAVEMENT MARKING LINE
I.Y. - INTERMITTENT YELLOW PAVEMENT MARKING LINE

SCALE
0 20 40 60

US 60 AND OAK RIDGE DR
PAVEMENT MARKING PLANS
SHEET 5 OF 9

STATE OF MISSOURI
DONALD THOMAS SAIKO
NUMBER PE-28475
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED 2/13/2026
ROUTE VAR. | STATE MO
DISTRICT SW | SHEET NO. 107
COUNTY VARIOUS
JOB NO. J7P3529
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)

GARVER, LLC.
7509 NW TIFFANY SPRINGS
PARKWAY, SUITE 200
KANSAS CITY, MO 64153
PHONE: (816) 298-6465
CERTIFICATE OF AUTHORITY
NO. 2008013090

c:\projectwise\garver-pw.bentley.com_garver-pw-01\d0163749\107_PM_05_J7P3529_120.dgn 3:54:30 PM 2/13/2026

SPLITLOG AVE (WIDTH VARIES)

℄ SPLITLOG AVE

N58°33'27"E

+42

REMOVE AND
REPLACE EXISTING
LEFT TURN ARROW

+58

4" S.W.

+52

4" D.S.Y.

+50

24" STOP BAR
(TYP.)

S. ROY HILL RD. (WIDTH VARIES)

4" S.W.

+73

4" I.W.

℄ MO 59

S02°17'39"W

4" S.W.

+62

+32

+08

4" S.W.

+94

4" S.W.

+31

REMOVE AND
REPLACE EXISTING
LEFT TURN ARROW

4" I.W.

S. ROY HILL RD. (WIDTH VARIES)

4" S.W.

4" D.S.Y.

℄ MO 59

℄ STA. 87+94.40 MO 59
℄ STA. 4+06.76 SPLITLOG AVE
℄ STA. 0+00.00 ROUTE C

+61

+73

4" D.S.Y.

+46

℄ ROUTE C

N58°33'27"E

90

85

PAVEMENT MARKING LEGEND

S.W. - SOLID WHITE PAVEMENT MARKING LINE
S.Y. - SOLID YELLOW PAVEMENT MARKING LINE
D.W. - DOTTED WHITE PAVEMENT MARKING LINE
D.S.Y. - DOUBLE SOLID YELLOW PAVEMENT MARKING LINE
I.W. - INTERMITTENT WHITE PAVEMENT MARKING LINE
I.Y. - INTERMITTENT YELLOW PAVEMENT MARKING LINE

SCALE

0 20 40 60

MO 59 AND RT C
PAVEMENT MARKING PLANS
SHEET 6 OF 9

STATE OF MISSOURI
DONALD THOMAS SAIKO
NUMBER PE-28475
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED
2/13/2026

ROUTE	STATE
VAR.	MO
DISTRICT	SHEET NO.
SW	108

COUNTY
VARIOUS

JOB NO.
J7P3529

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)

GARVER, LLC.
7509 NW TIFFANY SPRINGS
PARKWAY, SUITE 200
KANSAS CITY, MO 64153
PHONE: (816) 298-6465
CERTIFICATE OF AUTHORITY
NO. 2008013090

c:\projectwise\garver-pw.bentley.com_garver-pw-01\d0163749\108_PM_06_J7P3529_I20.dgn 3:55:25 PM 2/13/2026

PAVEMENT MARKING LEGEND

S.W. - SOLID WHITE PAVEMENT MARKING LINE
S.Y. - SOLID YELLOW PAVEMENT MARKING LINE
D.W. - DOTTED WHITE PAVEMENT MARKING LINE
D.S.Y. - DOUBLE SOLID YELLOW PAVEMENT MARKING LINE
I.W. - INTERMITTENT WHITE PAVEMENT MARKING LINE
I.Y. - INTERMITTENT YELLOW PAVEMENT MARKING LINE

CURVE 2	
PI	4+03.46
PC	1+03.40
PT	7+01.32
Δ	11°57'30.0" (LT)
D	2°0'0.0"
L	597.95' (CHORD)
T	300.06'
R	2,864.93'

STA. EQ. 386+99.80 MO 59/BUS 71 BK.=
STA. EQ. 0+00.00 RTE. BUS 71/MO 76 AHD.
℄ STA. 0+00.00 MO 59

24" YELLOW PREFORMED THEROPLASTIC (TYP.)
4" D.S.Y.
+63
+16
+18
+28
4" S.W.
℄ MO 59/BUS 71
S14°16'09"E
24" STOP BAR (TYP.)
4" S.W.
+50
+28
REMOVE AND REPLACE EXISTING LEFT ARROW
S45°43'51"W
℄ BUS 71/MO 76
+30
REMOVE AND REPLACE EXISTING LEFT ARROW
4" S.W.
4" S.W.
+64
+85
REMOVE AND REPLACE EXISTING LEFT ARROW
4" D.S.Y.
+43
4" S.W.
CURVE 2
+97
4" S.W.
REMOVE AND REPLACE EXISTING LEFT ARROW
4" S.W.
+85
+31
+38
4" S.W.

CURVE 1	
PI	1+98.11
PC	0+29.41
PT	3+17.38
Δ	74°52'9.7" (LT)
D	25°59'55.1"
L	287.97' (ARC)
T	168.70'
R	220.38'

+00
4" D.S.Y.
℄ MO 59
S29°08'18"E
+41
CURVE 1
UT
SIGN

SCALE
0 20 40 60

MO 59 AT BUS 71/MO 76
PAVEMENT MARKING PLANS
SHEET 7 OF 9

STATE OF MISSOURI
DONALD THOMAS SAIKO
NUMBER PE-28475
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED: 2/13/2026
ROUTE: VAR. | STATE: MO
DISTRICT: SW | SHEET NO.: 109
COUNTY: VARIOUS
JOB NO.: J7P3529
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)

GARVER, LLC.
7509 NW TIFFANY SPRINGS
PARKWAY, SUITE 200
KANSAS CITY, MO 64153
PHONE: (816) 298-6465
CERTIFICATE OF AUTHORITY
NO. 2008013090

c:\projectwise\garver-pw.bentley.com_garver-pw-01\d0163749\109_PM_07_J7P3529_i20.dgn 3:56:13 PM 2/13/2026

PAVEMENT MARKING LEGEND

S.W. - SOLID WHITE PAVEMENT MARKING LINE
S.Y. - SOLID YELLOW PAVEMENT MARKING LINE
D.W. - DOTTED WHITE PAVEMENT MARKING LINE
D.S.Y. - DOUBLE SOLID YELLOW PAVEMENT MARKING LINE
I.W. - INTERMITTENT WHITE PAVEMENT MARKING LINE
I.Y. - INTERMITTENT YELLOW PAVEMENT MARKING LINE

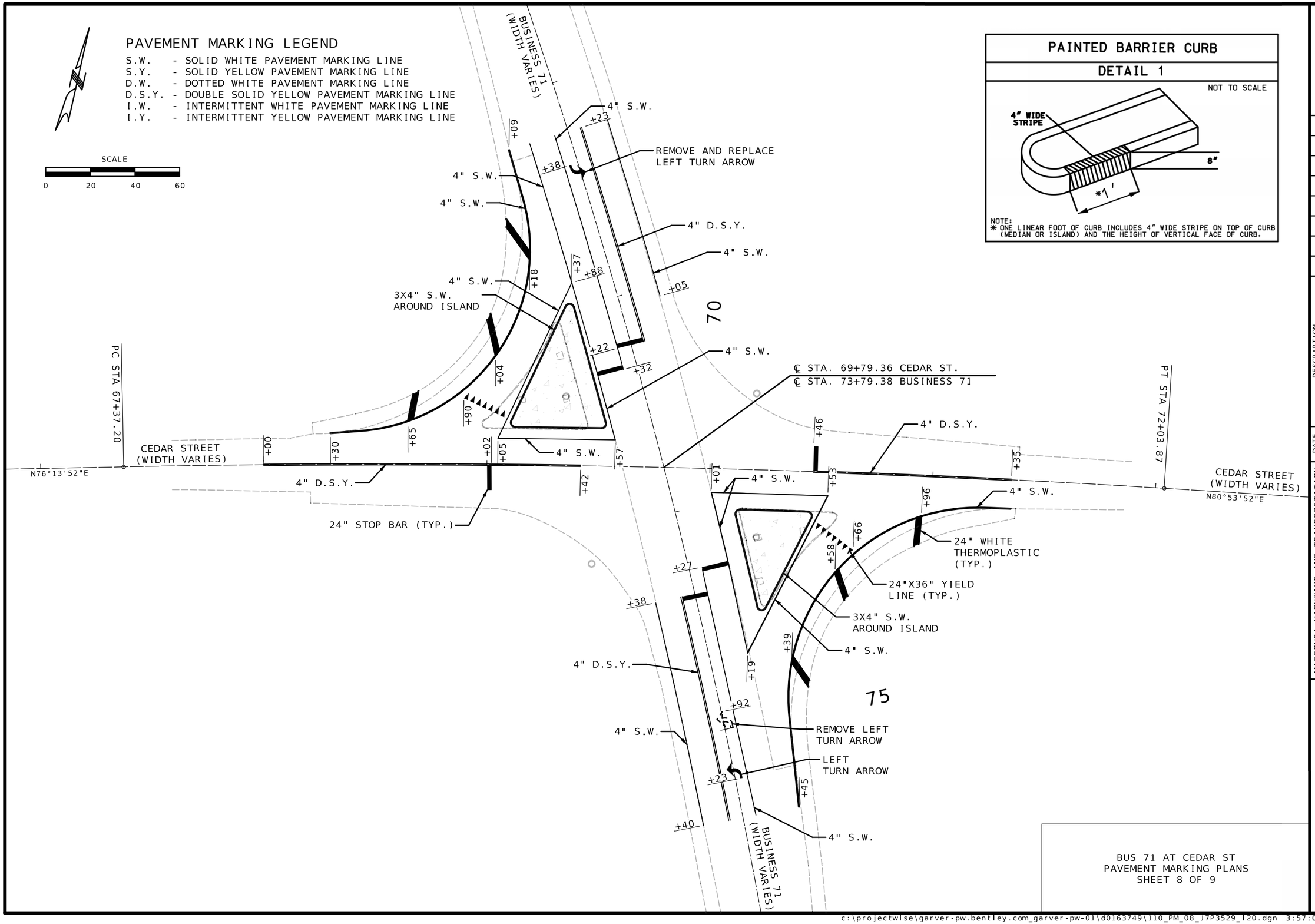
SCALE
0 20 40 60

PAINTED BARRIER CURB

DETAIL 1

NOT TO SCALE

NOTE:
* ONE LINEAR FOOT OF CURB INCLUDES 4" WIDE STRIPE ON TOP OF CURB (MEDIAN OR ISLAND) AND THE HEIGHT OF VERTICAL FACE OF CURB.



BUS 71 AT CEDAR ST
PAVEMENT MARKING PLANS
SHEET 8 OF 9

STATE OF MISSOURI
DONALD THOMAS SAIKO
NUMBER PE-28475
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED 2/13/2026
ROUTE VAR. | STATE MO
DISTRICT SW | SHEET NO. 110
COUNTY VARIOUS
JOB NO. J7P3529
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)

GARVER, LLC.
7509 NW TIFFANY SPRINGS PARKWAY, SUITE 200
KANSAS CITY, MO 64153
PHONE: (816) 298-6465
CERTIFICATE OF AUTHORITY NO. 2008013090

c:\projectwise\garver-pw.bentley.com_garver-pw-01\d0163749\110_PM_08_J7P3529_i20.dgn 3:57:04 PM 2/13/2026

PAVEMENT MARKING LEGEND

S.W. - SOLID WHITE PAVEMENT MARKING LINE
S.Y. - SOLID YELLOW PAVEMENT MARKING LINE
D.W. - DOTTED WHITE PAVEMENT MARKING LINE
D.S.Y. - DOUBLE SOLID YELLOW PAVEMENT MARKING LINE
I.W. - INTERMITTENT WHITE PAVEMENT MARKING LINE
I.Y. - INTERMITTENT YELLOW PAVEMENT MARKING LINE

N56°19'20"E

JESSE JAMES ROAD

+08

℄ RTE W

4" D.S.Y.

REMOVE & REPLACE 24" WHITE THERMOPLASTIC (TYP.)

24"X36" YIELD LINE (TYP.)

295

+40

+34

+69

+70

REMOVE & REPLACE 4" S.W.

REMOVE & REPLACE 4" S.W.

+23

+24

+16

+39

+43

+67

+68

+88

+21

REMOVE & REPLACE 4" S.W.

REMOVE & REPLACE 4" D.S.Y.

REMOVE AND REPLACE LEFT TURN ARROW (TYP.)

+84

REMOVE & REPLACE 4" D.S.Y.

REMOVE & REPLACE 24" YELLOW THERMOPLASTIC (TYP.)

0

+30

+07

REMOVE & REPLACE 24" STOP BAR (TYP.)

+88

+31

S33°40'40"E

+22

REMOVE & REPLACE 4" D.S.Y.

+56

+81

℄ BUSINESS 71

REMOVE & REPLACE 4" S.W.

CONCRETE SHOULDER

ASPHALT SHOULDER

+04

+99

+18

+11

REMOVE & REPLACE 4" S.W.

+52

+63

℄ STA. 295+50.00 BUS 71

℄ STA. 0+00.00 W. JESSE JAMES RD

ELK RIVER RD

SCALE

0 10 20 30

BUS 71 AND RT W
PAVEMENT MARKING PLANS
SHEET 9 OF 9

STATE OF MISSOURI
DONALD THOMAS SAIKO
NUMBER PE-28475
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED
2/13/2026

ROUTE	STATE
VAR.	MO
DISTRICT	SHEET NO.
SW	111

COUNTY
VARIOUS

JOB NO.
J7P3529

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION

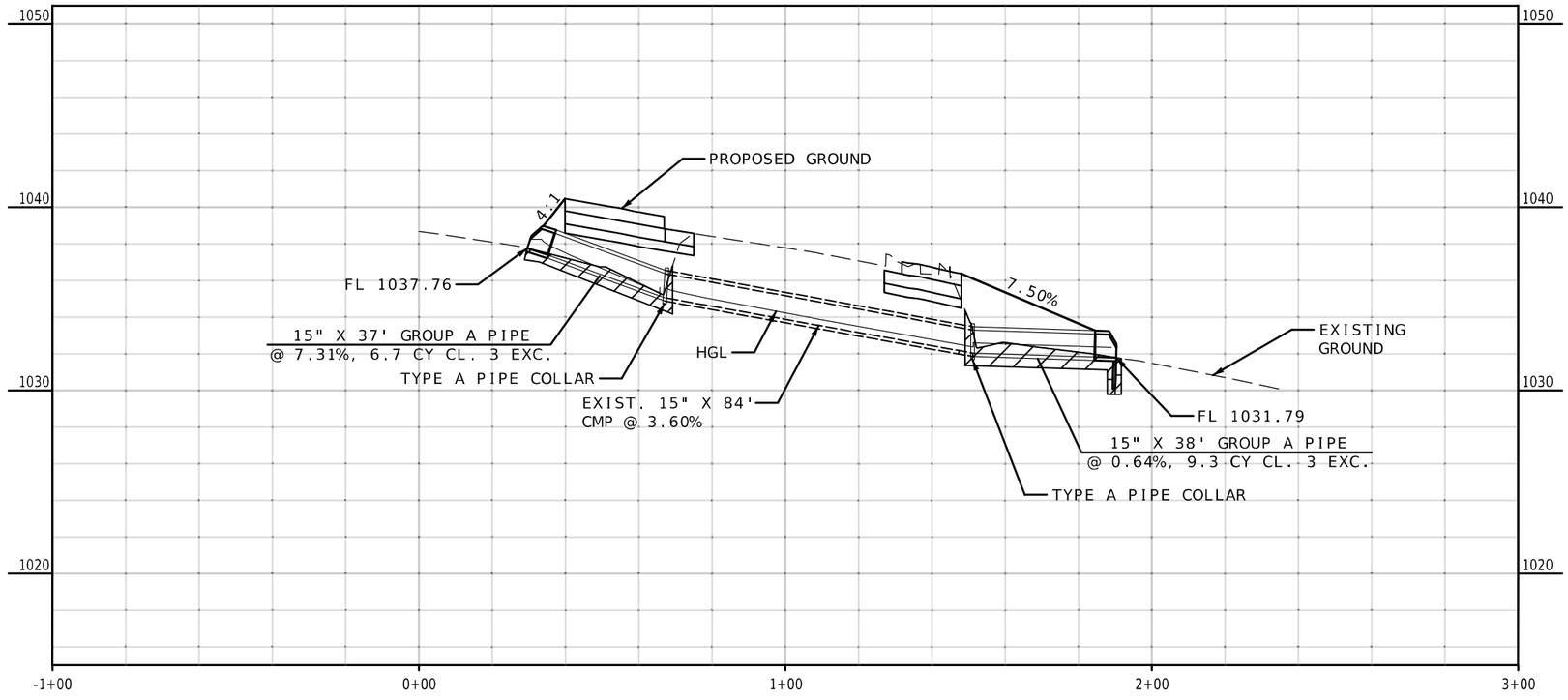
DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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

GARVER, LLC.
7509 NW TIFFANY SPRINGS
PARKWAY, SUITE 200
KANSAS CITY, MO 64153
PHONE: (816) 298-6465
CERTIFICATE OF AUTHORITY
NO. 2008013090

c:\projectwise\garver-pw.bentley.com_garver-pw-01\d0163749\111_PM_09_J7P3529_i10.dgn 4:00:06 PM 2/13/2026



STATE OF MISSOURI
DONALD THOMAS SAIKO
NUMBER PE-28475
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED
2/13/2026

ROUTE	STATE
VAR.	MO
DISTRICT	SHEET NO.
SW	112

COUNTY
VARIOUS

JOB NO.
J7P3529

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)

GARVER, LLC.
7509 NW TIFFANY SPRINGS
PARKWAY, SUITE 200
KANSAS CITY, MO 64153
PHONE: (816) 298-6465
CERTIFICATE OF AUTHORITY
NO. 2008013090

MO 43 AND 41ST
CULVERT SECTIONS
SHEET 1 OF 1