DESIGN DESIGNATION

FAIRVIEW T
A.A.D.T. - 2022 = 289
F.C. - MINOR COLLECTOR

GRANBY 60
A.A.D.T. - 2022 = 5,299
F.C. - OTHER PRINCIPAL ARTERIAL

GRANBY E
A.A.D.T. - 2022 = 1,437
F.C. - MAJOR COLLECTOR

NEOSHO BUS 60
A.A.D.T. - 2022 = 8,017
F.C. - OTHER PRINCIPAL ARTERIAL

WENTWORTH 37
A.A.D.T. - 2022 = 3,214
F.C. - MINOR ARTERIAL

FUNCTIONAL CLASSIFICATION - * FC *

TEMPORARY CONSTRUCTION EASEMENTS REQUIRED

PERMANENT DRAINAGE EASEMENTS REQUIRED

PERMANENT SIDEWALK EASEMENTS REQUIRED

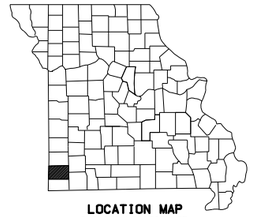
CONVENTIONAL SYMBOLS
(USED IN PLANS)

	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		
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	

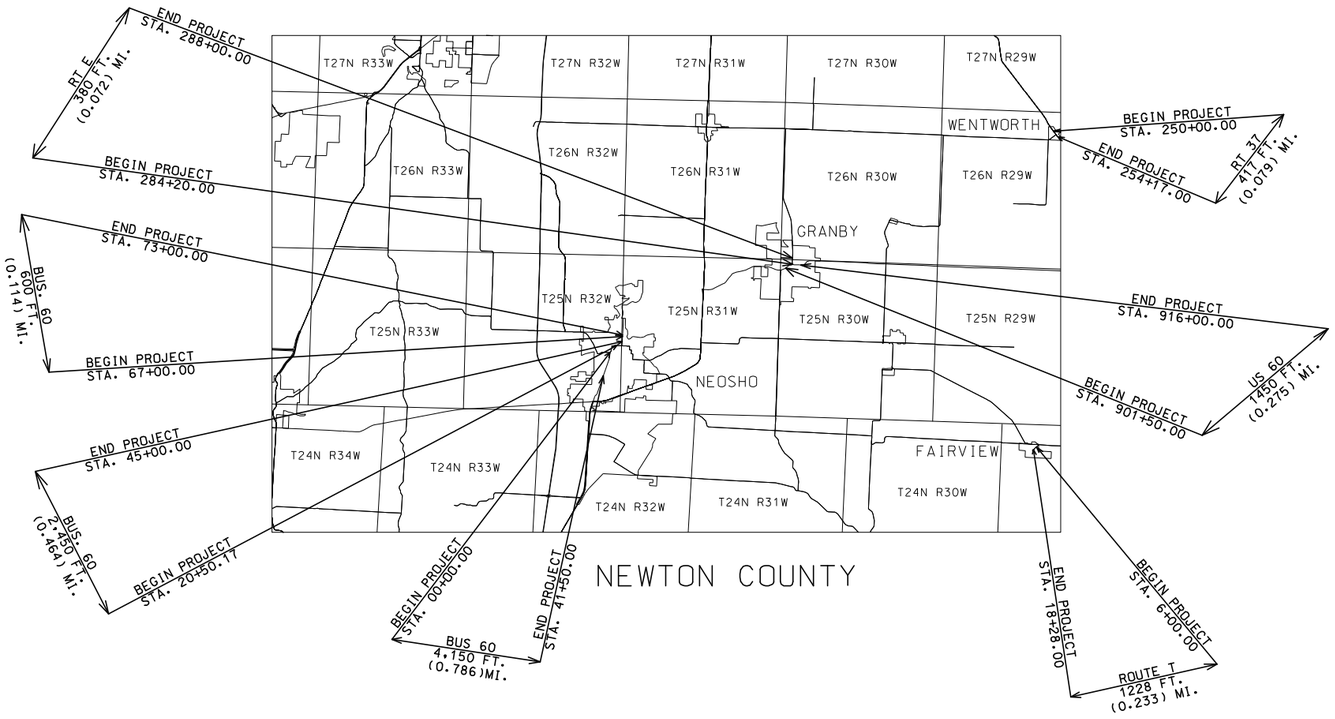
NOTE: DASHED OR OPEN SYMBOLS INDICATE EXISTING FEATURES

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
PLANS FOR PROPOSED STATE HIGHWAY
NEWTON COUNTY
AMERICANS WITH DISABILITIES ACT
(ADA IMPROVEMENTS)

NOT TO SCALE



LOCATION MAP
SHOWING LOCATION OF NEWTON COUNTY



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

INDEX OF SHEETS

DESCRIPTION	SHEET NUMBER
TITLE SHEET	1
TYPICAL SECTIONS (TS) (8 SHEETS)	2
QUANTITIES (QU) (10 SHEETS)	3
PLAN-PROFILE (PP)	4-18
REFERENCE POINT (RP)	19-22
COORDINATE POINTS (CP)	23-26
SPECIAL SHEETS (SS)	27-39
TRAFFIC CONTROL SHEETS (TC)	40-43
EROSION CONTROL SHEETS (EC)	44
SIGNAL SHEETS (SG)	45-57
SIGNING SHEETS (SN)	58-60

LENGTH OF PROJECT

FAIRVIEW (ROUTE T)
BEGINNING OF PROJECT STA. 6 + 00.00
END OF PROJECT STA. 18 + 28.00
APPARENT LENGTH 1228.00 FEET
EQUATIONS AND EXCEPTIONS: NONE

GRANBY (US 60)
BEGINNING OF PROJECT STA. 901 + 50.00
END OF PROJECT STA. 916 + 00.00
APPARENT LENGTH 1450.00 FEET
EQUATIONS AND EXCEPTIONS: NONE

GRANBY (ROUTE E)
BEGINNING OF PROJECT STA. 284 + 20.00
END OF PROJECT STA. 288 + 00.00
APPARENT LENGTH 380.00 FEET
EQUATIONS AND EXCEPTIONS: NONE

NEOSHO (BUSINESS 60, COLER ST.)
BEGINNING OF PROJECT STA. 20 + 50.17
END OF PROJECT STA. 45 + 00.00
APPARENT LENGTH 2449.83 FEET
EQUATIONS AND EXCEPTIONS: -3.40 FEET

NEOSHO (BUSINESS 60, COLLEGE ST.)
BEGINNING OF PROJECT STA. 67 + 00.00
END OF PROJECT STA. 73 + 00.00
APPARENT LENGTH 600.00 FEET
EQUATIONS AND EXCEPTIONS: -0.33

NEOSHO (BUSINESS 60, NEOSHO BLVD.)
BEGINNING OF PROJECT STA. 00 + 00.00
END OF PROJECT STA. 41 + 50.00
APPARENT LENGTH 4150.00 FEET
EQUATIONS AND EXCEPTIONS: -2.94 FEET

WENTWORTH (ROUTE 37)
BEGINNING OF PROJECT STA. 250 + 00.00
END OF PROJECT STA. 254 + 17.00
APPARENT LENGTH 417.00 FEET
EQUATIONS AND EXCEPTIONS: NONE

APPARENT LENGTH 10674.83 FEET
TOTAL CORRECTIONS -6.67 FEET
NET LENGTH OF PROJECT 10668.16 FEET
STATE LENGTH 2.021 MILES

FOR INFORMATION ONLY
ESTIMATED DISTURBED ACRES 5.08 ACRES

STATE OF MISSOURI
ROBERT B. GREEN
NUMBER PE-25339
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED 3/3/2025

ROUTE	STATE
VAR.	MO
DISTRICT	SHEET NO.
SW	1

COUNTY NEWTON
JOB NO. J7S3506
CONTRACT ID.
PROJECT NO.
BRIDGE NO.

DESCRIPTION	DATE

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

Bartlett & West
601 MONROE ST. SUITE 201 - JEFFERSON CITY, MO 65101
PHONE 573-634-3181
CERTIFICATE OF AUTHORITY NO. 000167 - ENGINEERING
WWW.BARTLETTWEST.COM

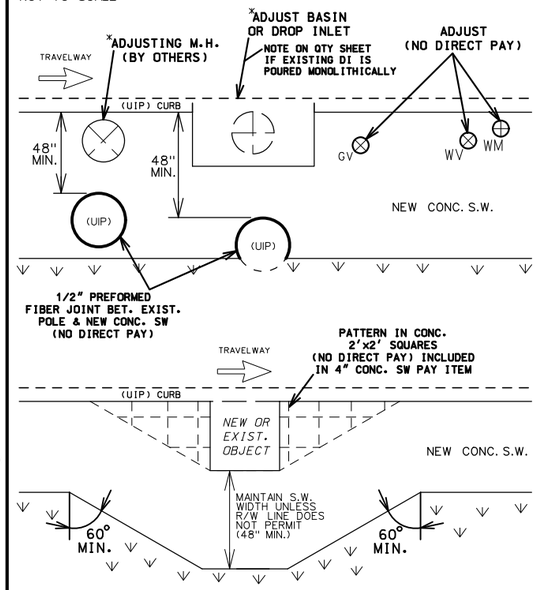
IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

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.

NOT TO SCALE

* EXIST. DITOP OR MANHOLE MUST BE 2% MAX.

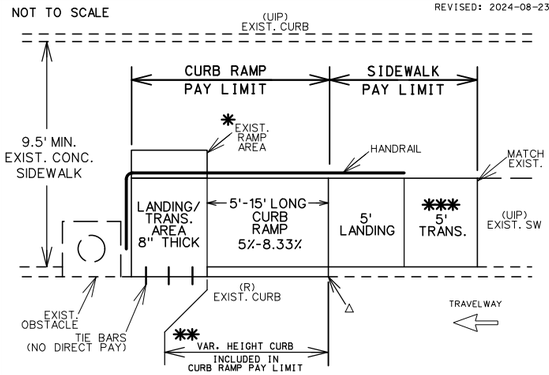


UTILITIES OR VARIOUS OBSTACLES

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: 2024-08-23



△ MATCH EXIST CURB

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

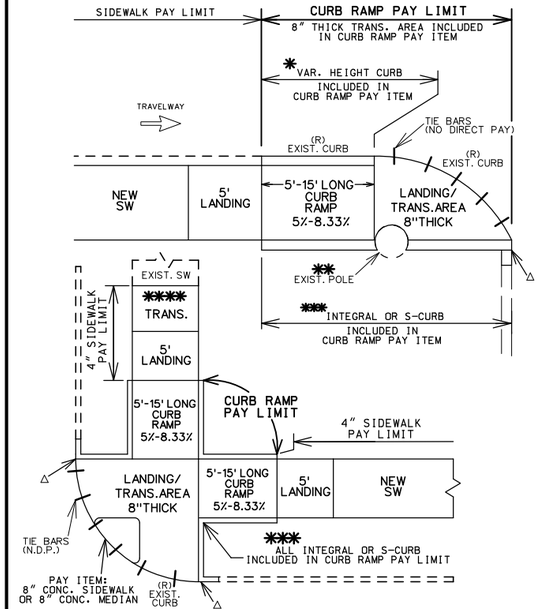
** VAR. HEIGHT CURB ALONG ROADSIDE MAY BE CONSTRUCTED MONOLITHIC OR SEPERATE DEPENDING ON CONST. OPERATIONS.

*** 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.

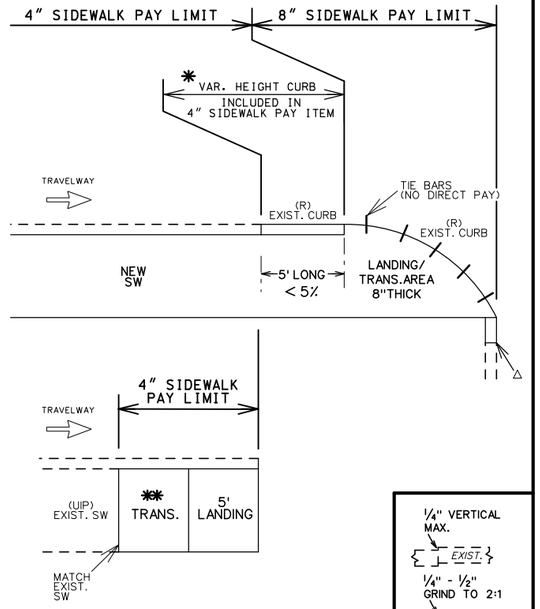
*** TRANSITION PANEL(S) TO BLEND CROSS SLOPE DISCREPENCY WARP RATE NOT TO EXCEED 0.5% PER FT

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

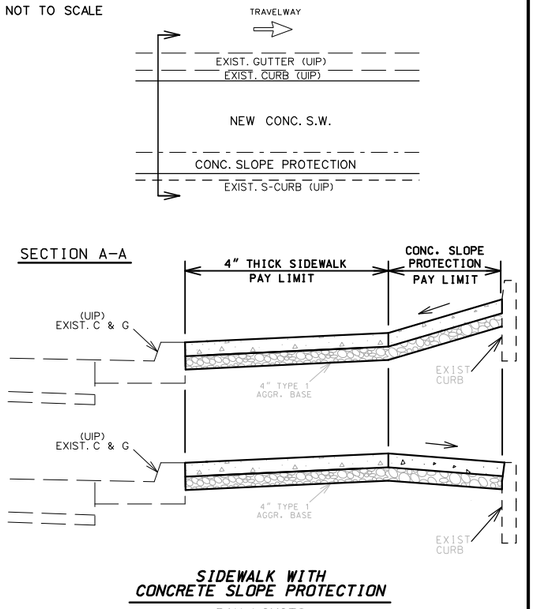
NOT TO SCALE

OVER 3/4" REPLACE PANEL(S)

JOINT GRINDING

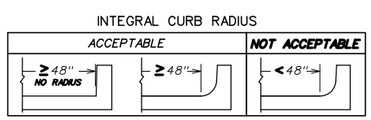
TRIP HAZARDS 622-99.03

NOT TO SCALE



SIDEWALK WITH CONCRETE SLOPE PROTECTION

PAY LIMITS

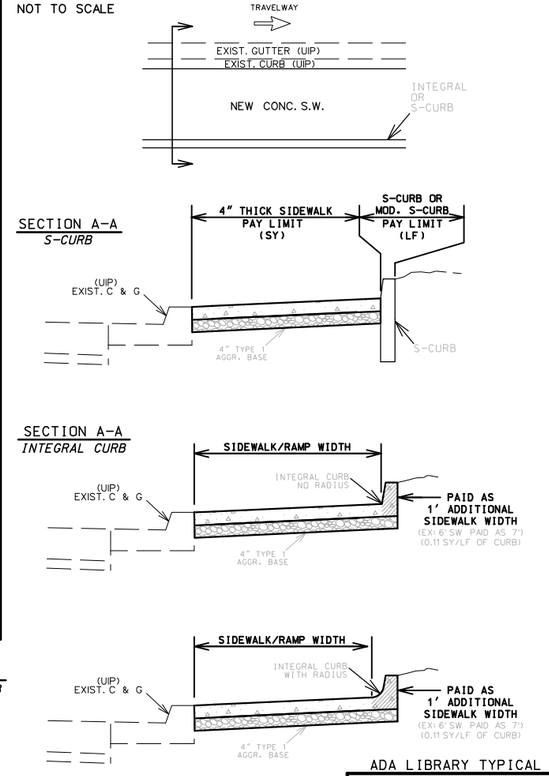


SECTION A-A
INTEGRAL CURB WITH RADIUS

SIDEWALK & RAMP WITH CURB

PAY LIMITS

NOT TO SCALE



ADA LIBRARY TYPICAL

TYPICAL SHEET
SHEET 1 OF 8

STATE OF MISSOURI
ROBERT B. GREEN
NUMBER PE-25339
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED: 3/3/2025

ROUTE	STATE
VAR.	MO
DISTRICT	SHEET NO.
SW	2

COUNTY: NEWTON

JOB NO.: J7S3506

CONTRACT ID.:

PROJECT NO.:

BRIDGE NO.:

DESCRIPTION	DATE

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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

Bartlett & West

601 MONROE ST. SUITE 201 - JEFFERSON CITY, MO 65101
PHONE 573-634-3181
CERTIFICATE OF AUTHORITY NO. 000167 - ENGINEERING
WWW.BARTLETTWEST.COM

PERPENDICULAR – TYPE 1

TYPE 1-A

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	–	8.2	12.8	–	10.8	12.7	–	13.5	15.8	
CONC. SIDEWALK	SY	–	5.6	6.4	–	5.6	6.4	–	4.9	6.4	
TYPE 1 AGGREGATE	SY	–	13.8	16.0	–	16.4	19.1	–	18.3	22.2	
ADA LINEAR GRADING	LF	–	22.0	22.0	–	27.5	27.5	–	30.0	30.5	
SODDING	SY	–	5.8	5.7	–	6.8	6.9	–	7.5	7.9	

TYPE 1-B

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-C

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-D

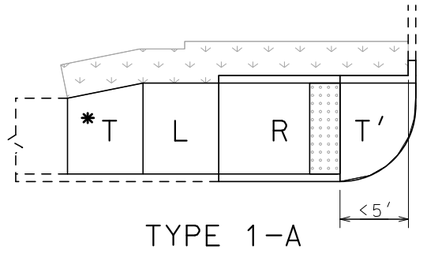
LENGTH (LF)		8			12			16			REMARKS
WIDTH (LF)		4	5	6	4	5	6	4	5	6	
TRUNCATED DOMES	SF	–	18.0	24.0	–	18.0	24.0	–	18.0	24.0	
CURB RAMP	SY	–	18.6	22.8	–	24.0	29.0	–	29.3	35.3	
CONC. SIDEWALK	SY	–	11.2	12.8	–	11.2	12.8	–	9.8	11.4	
TYPE 1 AGGREGATE	SY	–	29.8	35.6	–	35.2	41.8	–	39.1	46.7	
ADA LINEAR GRADING	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-E

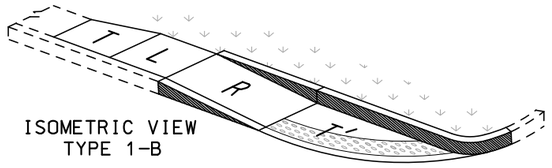
LENGTH (LF)		8			12			16			REMARKS
WIDTH (LF)		4	5	6	4	5	6	4	5	6	
TRUNCATED DOMES	SF	–	18.0	24.0	–	18.0	24.0	–	18.0	24.0	
CURB RAMP	SY	–	14.8	19.0	–	20.1	25.2	–	25.5	31.4	
CONC. SIDEWALK	SY	–	11.2	12.8	–	11.2	12.8	–	9.8	11.4	
TYPE 1 AGGREGATE	SY	–	26.0	31.8	–	31.3	38.0	–	35.3	42.8	
ADA LINEAR GRADING	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-F

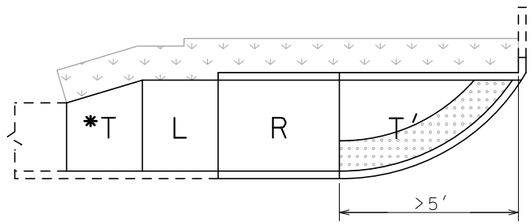
LENGTH (LF)		8			12			16			REMARKS
WIDTH (LF)		4	5	6	4	5	6	4	5	6	
TRUNCATED DOMES	SF	–	14.0	16.0	–	14.0	16.0	–	14.0	16.0	
CURB RAMP	SY	–	15.5	19.0	–	20.8	25.2	–	26.2	31.4	
CONC. SIDEWALK	SY	–	11.2	12.8	–	11.2	12.8	–	9.8	11.4	
TYPE 1 AGGREGATE	SY	–	26.7	31.8	–	32.0	38.0	–	36.0	42.8	
ADA LINEAR GRADING	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	



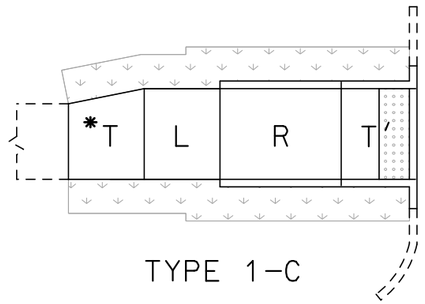
TYPE 1-A



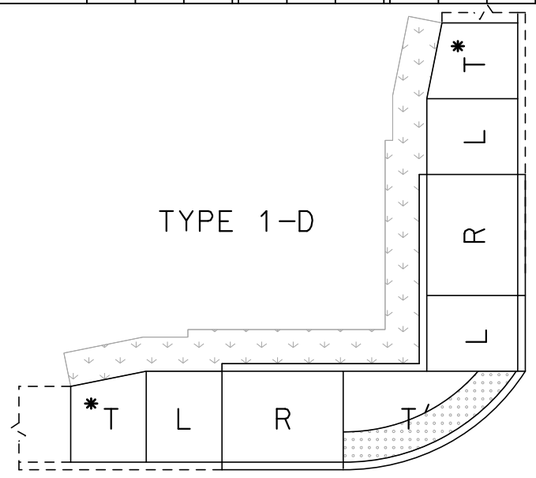
ISOMETRIC VIEW
TYPE 1-B



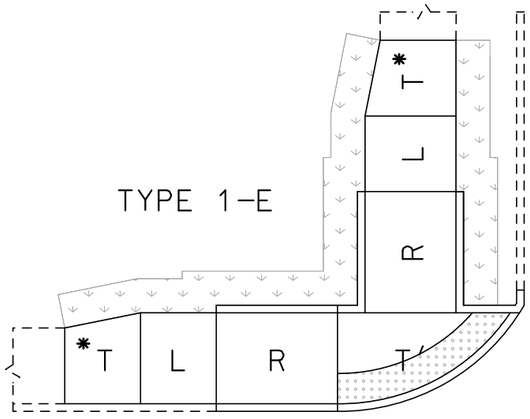
TYPE 1-B



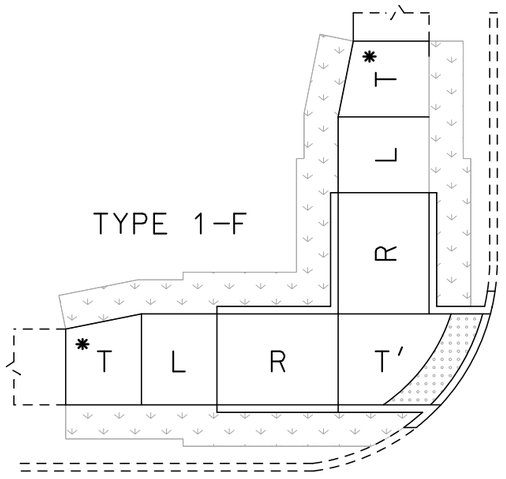
TYPE 1-C



TYPE 1-D



TYPE 1-E



TYPE 1-F

REVISED: 2022-05-18

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.

ADA LIBRARY TYPICAL

TYPE 1

PERPENDICULAR CURB RAMPS

TYPICAL SHEET 2 OF 8

STATE OF MISSOURI
ROBERT B. GREEN
NUMBER PE-25339
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED: 3/3/2025

ROUTE	STATE
VAR.	MO
DISTRICT	SHEET NO.
SW	2

COUNTY: NEWTON

JOB NO.: J7S3506

CONTRACT ID.:

PROJECT NO.:

BRIDGE NO.:

DATE	DESCRIPTION

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

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

Bartlett & West
601 MONROE ST. SUITE 201 - JEFFERSON CITY, MO 65101
PHONE 573-634-3181
CERTIFICATE OF AUTHORITY NO. 000167 - ENGINEERING
WWW.BARTLETTWEST.COM

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	

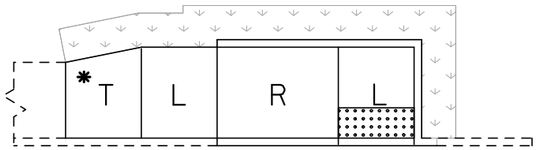
TYPE 2-E

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

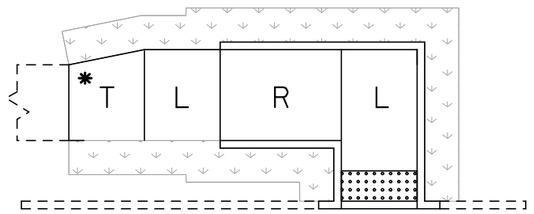
TYPE 2-F

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

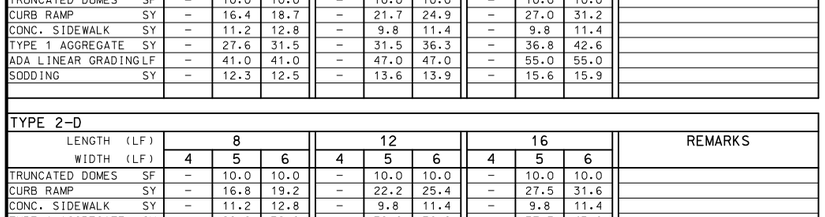
NOTE:
QUANTITIES ARE CALCULATED BY AREA AND MAY NOT MATCH EXACT FIELD CONDITIONS.



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 DOME

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

T – TRANSITION TO EXISTING SW

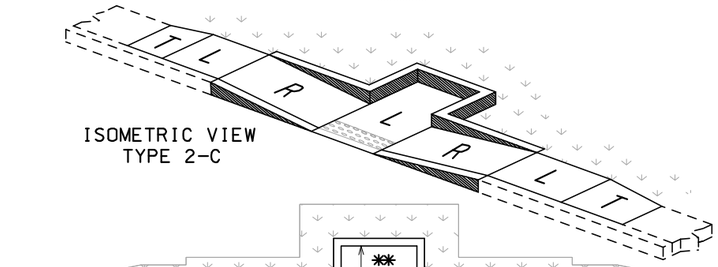
* – T IS STILL NEEDED EVEN IF THE EXISTING SIDEWALK IS THE SAME WIDTH AS THE NEW SIDEWALK.(IT WILL BLEND THE EXIST XSLOPE INTO THE NEW LANDING XSLOPE)

L – LANDING

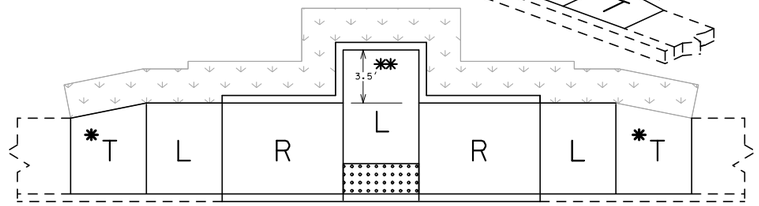
R – RAMP

– SOD SLOPE 6:1 MIN.

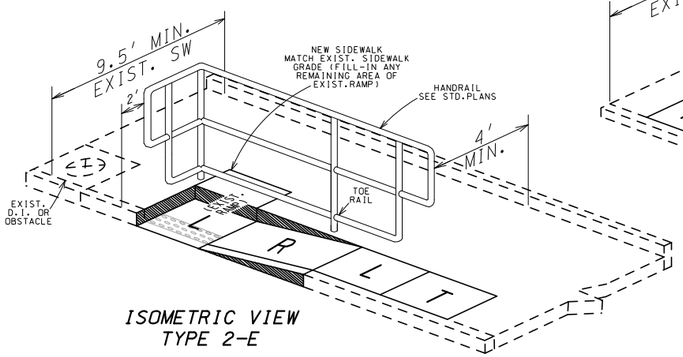
– CURB RAMP PAY LIMITS



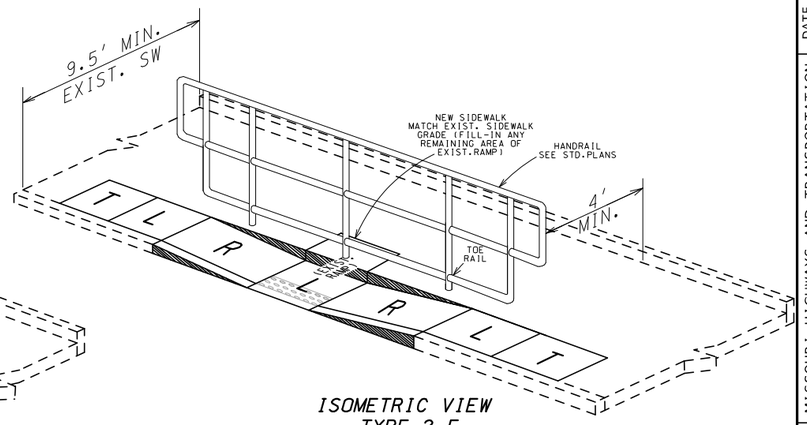
ISOMETRIC VIEW
TYPE 2-C



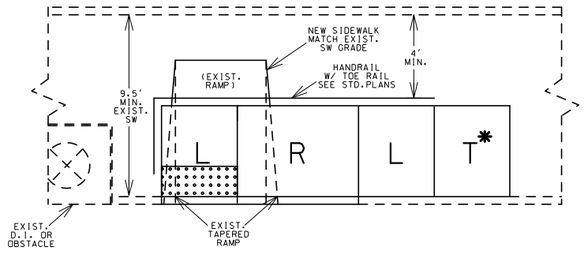
TYPE 2-C



ISOMETRIC VIEW
TYPE 2-E



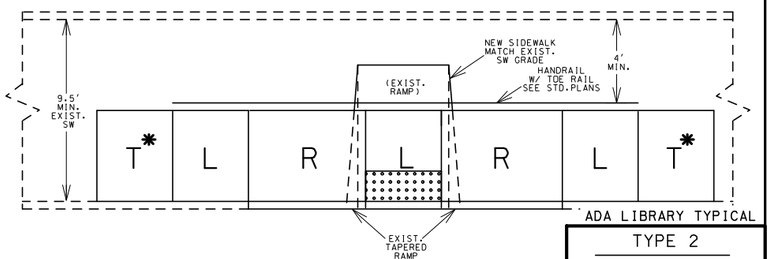
ISOMETRIC VIEW
TYPE 2-F



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 3 OF 8

REVISED: 2022-05-18

STATE OF MISSOURI
ROBERT B. GREEN
NUMBER PE-25339
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED SEALED AND DATED ELECTRONICALLY.

DATE PREPARED: 3/3/2025
ROUTE: VAR. | STATE: MO
DISTRICT: SW | SHEET NO.: 2
COUNTY: NEWTON
JOB NO.: J7S3506
CONTRACT ID.:
PROJECT NO.:
BRIDGE NO.:

DESCRIPTION | DATE

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

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

Bartlett & West
601 MONROE ST. SUITE 201 - JEFFERSON CITY, MO 65101
PHONE 573-634-3181
CERTIFICATE OF AUTHORITY NO. 000167 - ENGINEERING
WWW.BARTLETTWEST.COM

PARALLEL - TYPE 2 (cont'd.)

TYPE 2-G

LENGTH (LF)	8			12			16			REMARKS
WIDTH (LF)	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)	8			12			16			REMARKS
WIDTH (LF)	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: 2022-05-18

T - TRANSITION TO EXISTING SW

L - LANDING

R - RAMP

- SOD SLOPE 6:1 MIN.

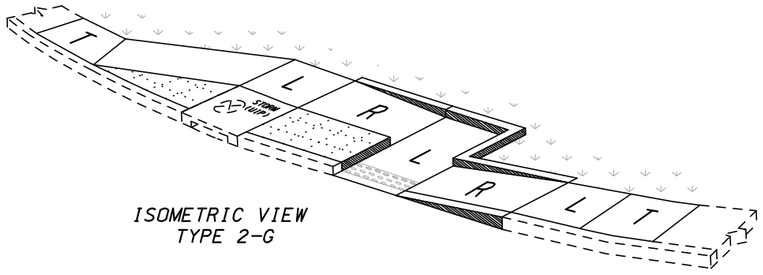
- TRUNCATED DOME LOCATION, IF DIST. IS <5' OR > 5'

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

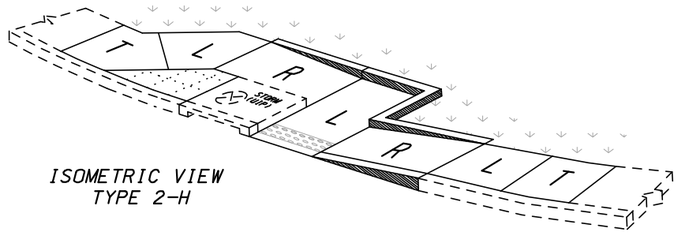
- CURB RAMP PAY LIMITS

- INCLUDED IN 4" CONC. SIDEWALK PAY LIMIT

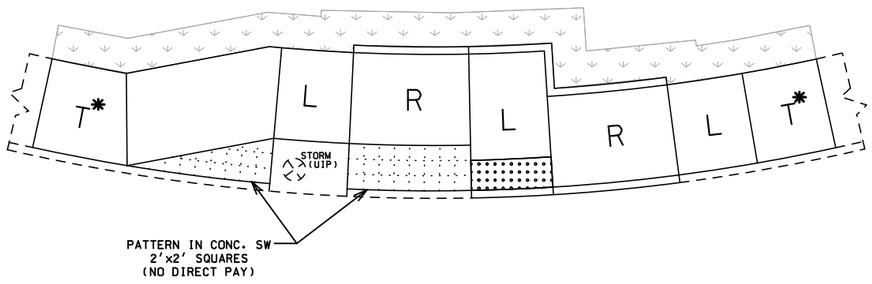
NOTE:
QUANTITIES ARE CALCULATED BY AREA AND MAY NOT MATCH EXACT FIELD CONDITIONS.



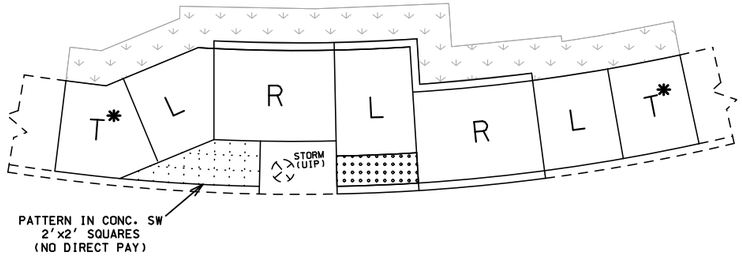
ISOMETRIC VIEW
TYPE 2-G



ISOMETRIC VIEW
TYPE 2-H



TYPE 2-G



TYPE 2-H

ADA LIBRARY TYPICAL

TYPE 2

PARALLEL CURB RAMPS

TYPICAL SHEET 4 OF 8

STATE OF MISSOURI
ROBERT B. GREEN
NUMBER PE-2539
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED: 3/3/2025
ROUTE: VAR. | STATE: MO
DISTRICT: SW | SHEET NO.: 2
COUNTY: NEWTON
JOB NO.: J7S3506
CONTRACT ID.:
PROJECT NO.:
BRIDGE NO.:

DESCRIPTION | DATE

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
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PHONE 573-634-3181
CERTIFICATE OF AUTHORITY NO. 000167 - ENGINEERING
WWW.BARTLETTWEST.COM

DIAGONAL - TYPE 3

TYPE 3-A

LENGTH (LF)	8			12			16			REMARKS
WIDTH (LF)	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	
8"SW OR MED STRIP SY	–	3.0	2.2	–	3.0	2.2	–	3.0	2.2	

TYPE 3-B

LENGTH (LF)	8			12			16			REMARKS
WIDTH (LF)	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	
8"SW OR MED STRIP SY	–	1.5	1.5	–	1.5	1.5	–	1.5	1.5	

TYPE 3-C

LENGTH (LF)	8			12			16			REMARKS
WIDTH (LF)	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	
8"SW OR MED STRIP SY	–	1.0	1.6	–	1.0	1.6	–	1.0	1.6	

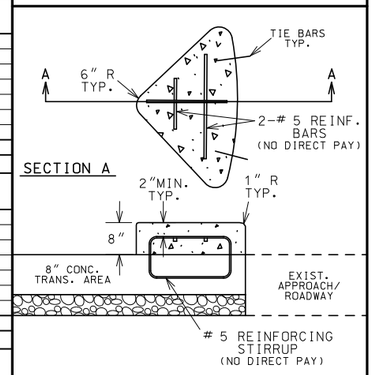
TYPE 3-D

LENGTH (LF)	8			12			16			REMARKS
WIDTH (LF)	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	
8"SW OR MED STRIP SY	–	1.0	0.8	–	1.0	0.8	–	1.0	0.8	

TYPE 3-E

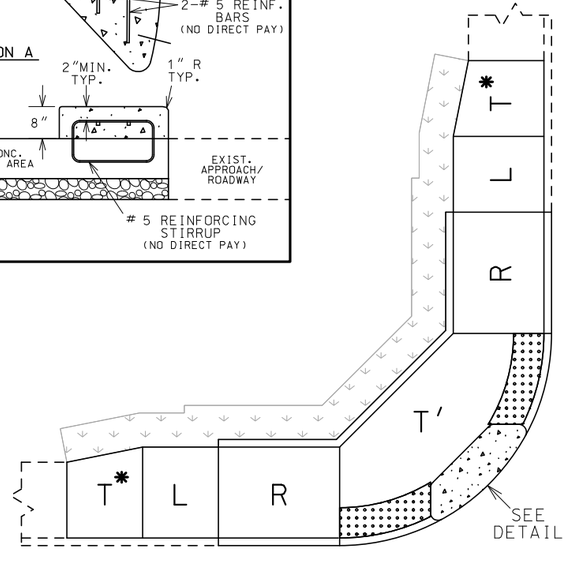
LENGTH (LF)	8			12			16			REMARKS
WIDTH (LF)	4	5	6	4	5	6	4	5	6	
TRUNCATED DOMES SF	–	20.0	24.0	–	20.0	24.0	–	20.0	24.0	
CURB RAMP SY	–	17.2	19.8	–	17.7	21.4	–	20.4	24.5	
CONC. SIDEWALK SY	–	8.4	10.7	–	7.3	9.4	–	7.3	9.4	
TYPE 1 AGGREGATE SY	–	25.6	30.5	–	25.0	30.8	–	27.7	33.9	
ADA LINEAR GRADING LF	–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

– DETAIL – 8" SIDEWALK OR 8" 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

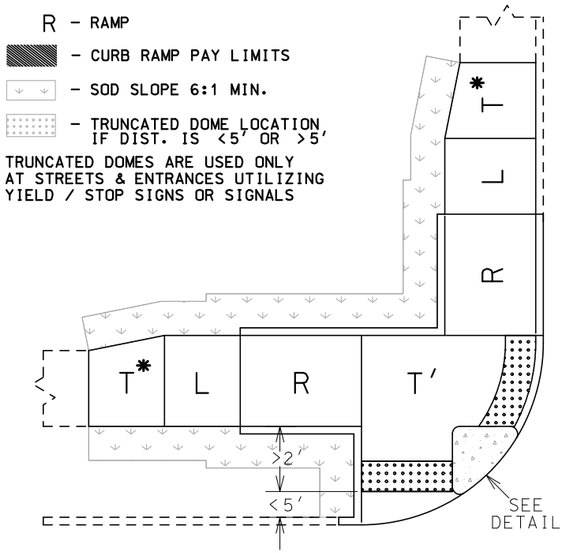
R - RAMP

- CURB RAMP PAY LIMITS

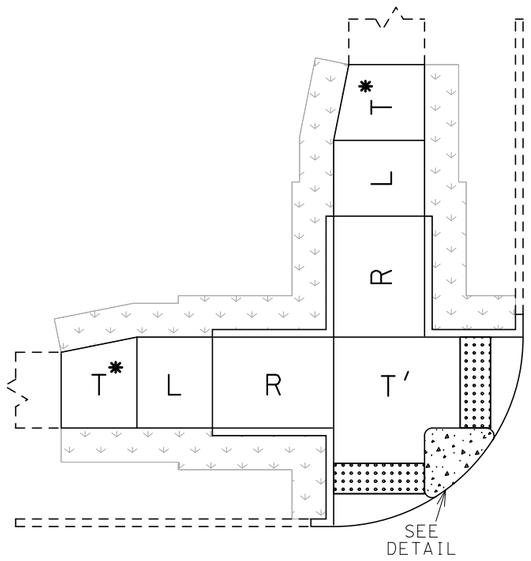
- SOD SLOPE 6:1 MIN.

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

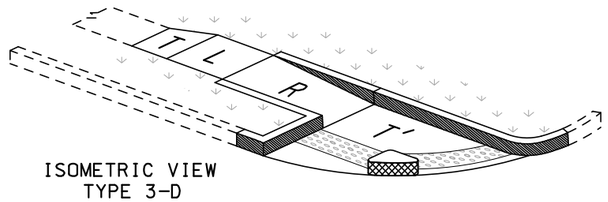
TRUNCATED DOMES ARE USED ONLY AT STREETS & ENTRANCES UTILIZING YIELD / STOP SIGNS OR SIGNALS



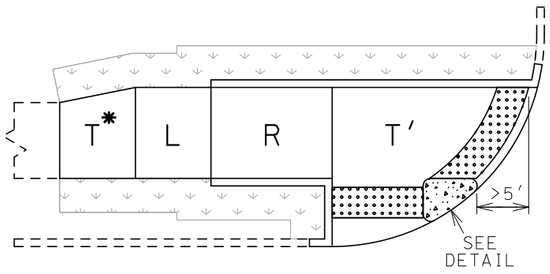
TYPE 3-B



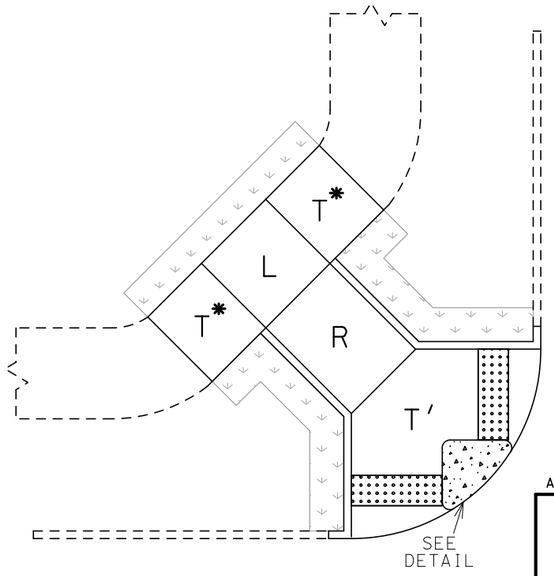
TYPE 3-C



ISOMETRIC VIEW
TYPE 3-D



TYPE 3-D



TYPE 3-E

ADA LIBRARY TYPICAL

TYPE 3
DIAGONAL CURB RAMPS

TYPICAL SHEET 5 OF 8

REVISED: 2022-05-18

STATE OF MISSOURI
ROBERT B. GREEN
NUMBER PE-2539
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED: 3/3/2025

ROUTE	STATE
VAR.	MO
DISTRICT	SHEET NO.
SW	2

COUNTY: NEWTON

JOB NO.: J7S3506

CONTRACT ID.:

PROJECT NO.:

BRIDGE NO.:

DATE	DESCRIPTION

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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

Bartlett & West

601 MONROE ST. SUITE 201 - JEFFERSON CITY, MO 65101
PHONE 573-634-3181
CERTIFICATE OF AUTHORITY NO. 000167 - ENGINEERING
WWW.BARTLETTWEST.COM

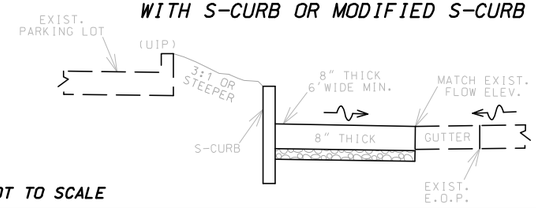
REVISED: 2022-05-16

NOTES FOR MODIFIED SIDEWALK:

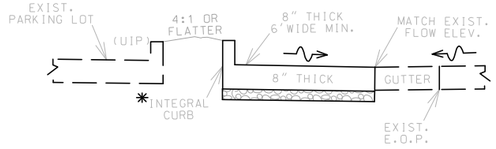
1. REMOVE EXIST. CURB & RAISED ISLAND WITHIN LIMITS SHOWN.
2. AREA INSIDE FINAL CURB TO BE REPAIRED OR REPLACED WITH EXISTING SURFACE MATERIAL. GRADE TO DRAIN.
3. CONSTRUCT 8" THICK CONC. SIDEWALK FLUSH WITH EXIST. CONC. PAVED APPROACH.
4. CONSTRUCT CURB ADJACENT TO MODIFIED SIDEWALK.
5. MODIFIED SIDEWALK 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



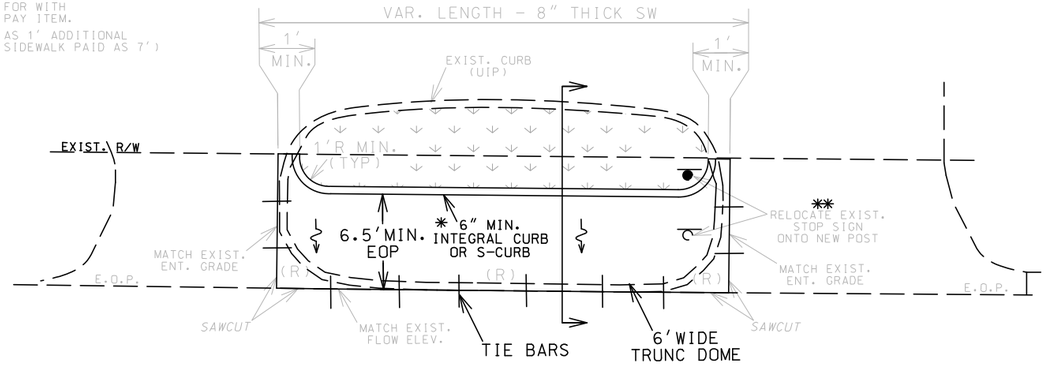
SECTION A-A
WITH INTEGRAL CURB



NOT TO SCALE

TYPICAL MODIFIED SIDEWALK
8" THICK

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

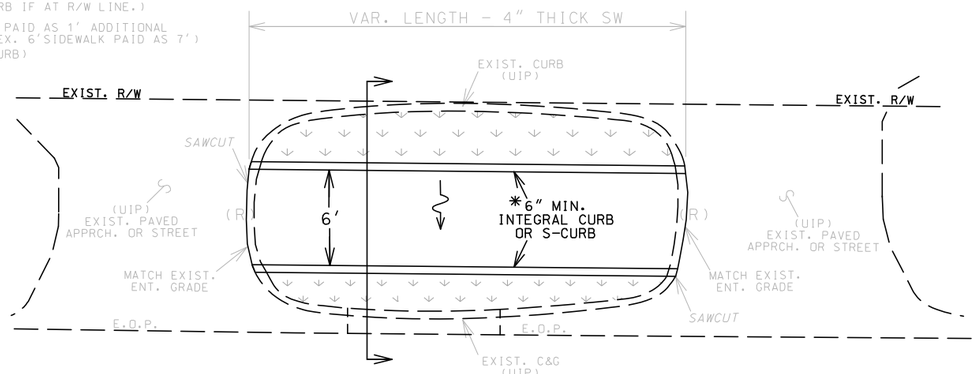


NOTES FOR CUT-THRU SIDEWALK:

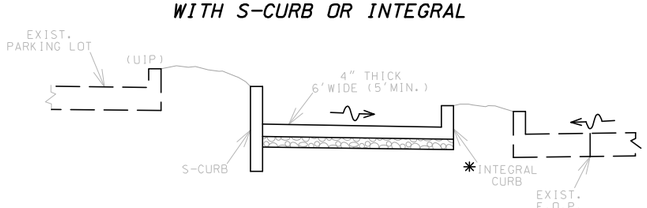
1. REMOVE EXIST. CURB & RAISED ISLAND WITHIN LIMITS SHOWN.
2. AREA INSIDE FINAL CURB TO BE REPAIRED OR REPLACED WITH EXISTING SURFACE MATERIAL. GRADE TO DRAIN.
3. CONSTRUCT 4" THICK CONC. SIDEWALK FLUSH WITH EXIST. CONC. PAVED APPROACH.
4. CONSTRUCT CURB ON BOTH SIDES ADJACENT TO SIDEWALK.
5. CUT-THRU 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



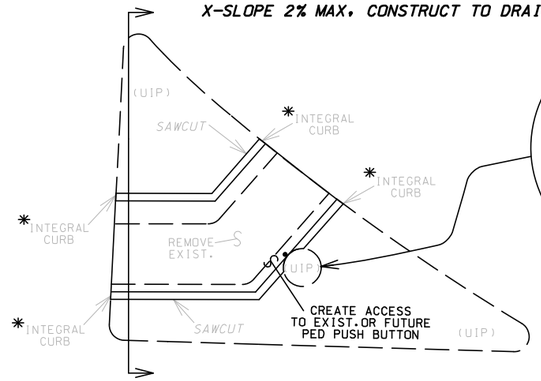
SECTION C-C
WITH S-CURB OR INTEGRAL

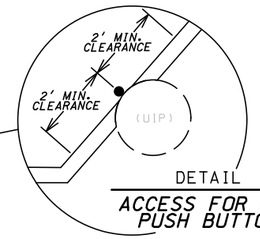


NOT TO SCALE

NOT TO SCALE

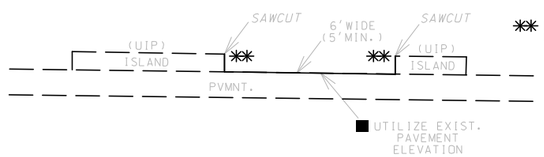
TYPICAL ISLAND CUT-THRU SIDEWALK
X-SLOPE 2% MAX. CONSTRUCT TO DRAIN





DETAIL
ACCESS FOR PED PUSH BUTTON

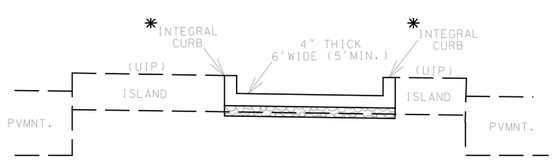
SECTION B-B
ISLAND CUT-THRU SIDEWALK FOR EXISTING 'PINNED-ON' ISLAND



■ 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 6 OF 8

STATE OF MISSOURI
ROBERT B. GREEN
NUMBER PE-25339
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED: 3/3/2025
ROUTE: VAR. | STATE: MO
DISTRICT: SW | SHEET NO.: 2
COUNTY: NEWTON
JOB NO.: J7S3506
CONTRACT ID.:
PROJECT NO.:
BRIDGE NO.:

DESCRIPTION	DATE

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

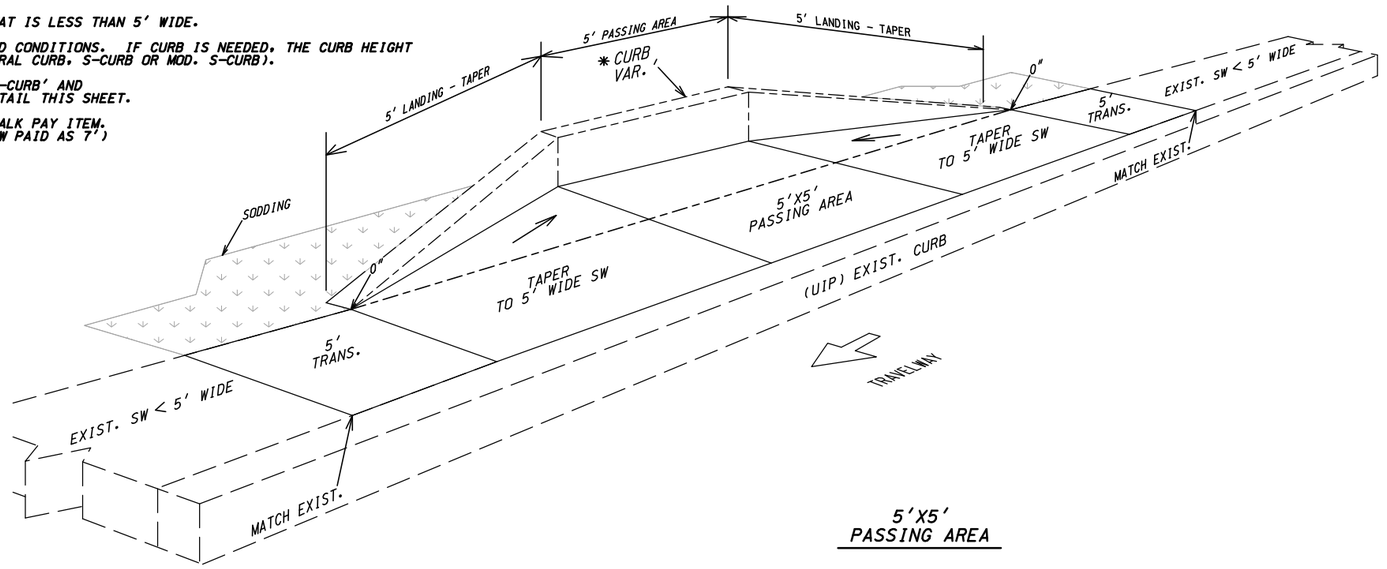
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

Bartlett & West
601 MONROE ST. SUITE 201 - JEFFERSON CITY, MO 65101
PHONE 573-634-3181
CERTIFICATE OF AUTHORITY NO. 000167 - ENGINEERING
WWW.BARTLETTWEST.COM

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)

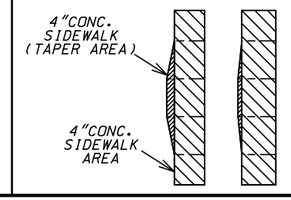


5'X5' PASSING AREA

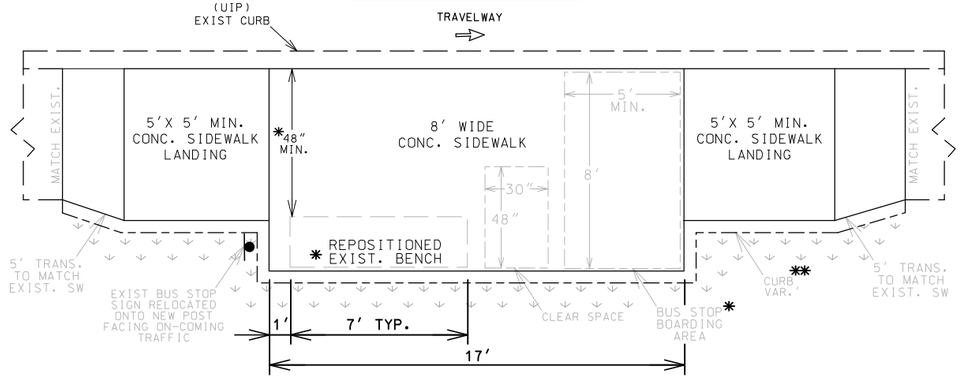
NOT TO SCALE

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
MODIFIED S-CURB		LF	17.2	16.0
SODDING		SY	53.0	53.0
LINEAR GRADING		LF	25.0	25.0

EXIST. WIDTHS 4' 4.5'



BUS STOP WITH BENCH



NOTES:

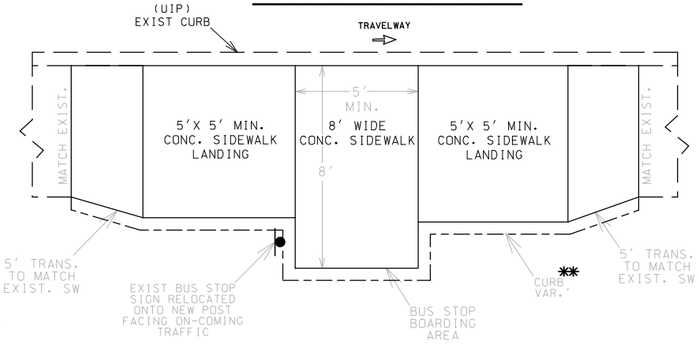
✱ 1. THE REPOSITIONED BENCH SHALL NOT BE PLACED ON THE 5'X8' BUS STOP BOARDING AREA. PLACE THE BACK OF THE BENCH AT THE BACK EDGE OF THE CONC. PAD TO PROVIDE MAX.CLEARANCE.

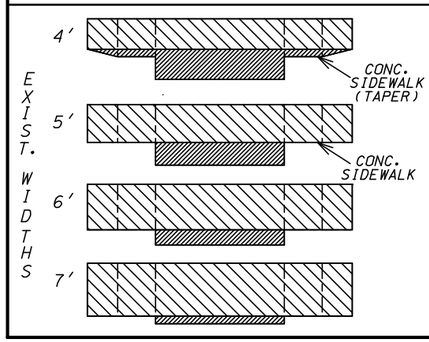
✱✱ 2. CURB USAGE DEPENDS ON FIELD CONDITIONS. IF CURB IS NEEDED DUE TO CUT, THE CURB HEIGHT WILL VARY DEPENDING ON FIELD CONDITIONS. (INTEGRAL CURB, S-CURB OR MOD. S-CURB).

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)

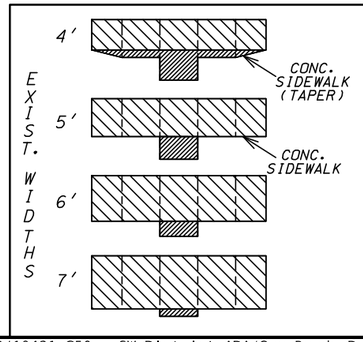
BUS STOP WITHOUT BENCH





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
MODIFIED 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
MODIFIED 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 7 OF 8

STATE OF MISSOURI
ROBERT B. GREEN
NUMBER PE-2003018
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED SEALED AND DATED ELECTRONICALLY.

DATE PREPARED 3/3/2025

ROUTE	STATE
VAR.	MO
DISTRICT	SHEET NO.
SW	2

COUNTY: NEWTON
JOB NO.: J7S3506
CONTRACT ID.:
PROJECT NO.:
BRIDGE NO.:

DESCRIPTION	DATE

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

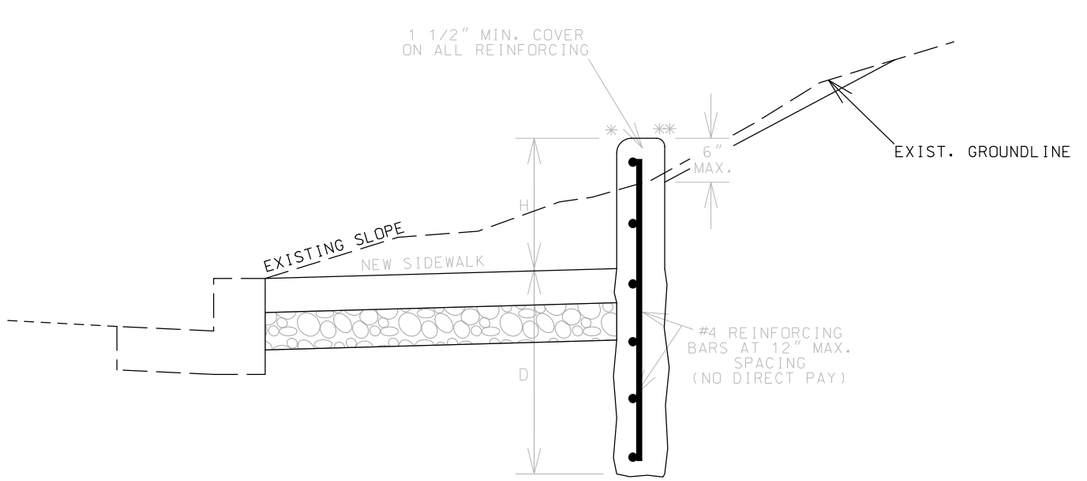
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

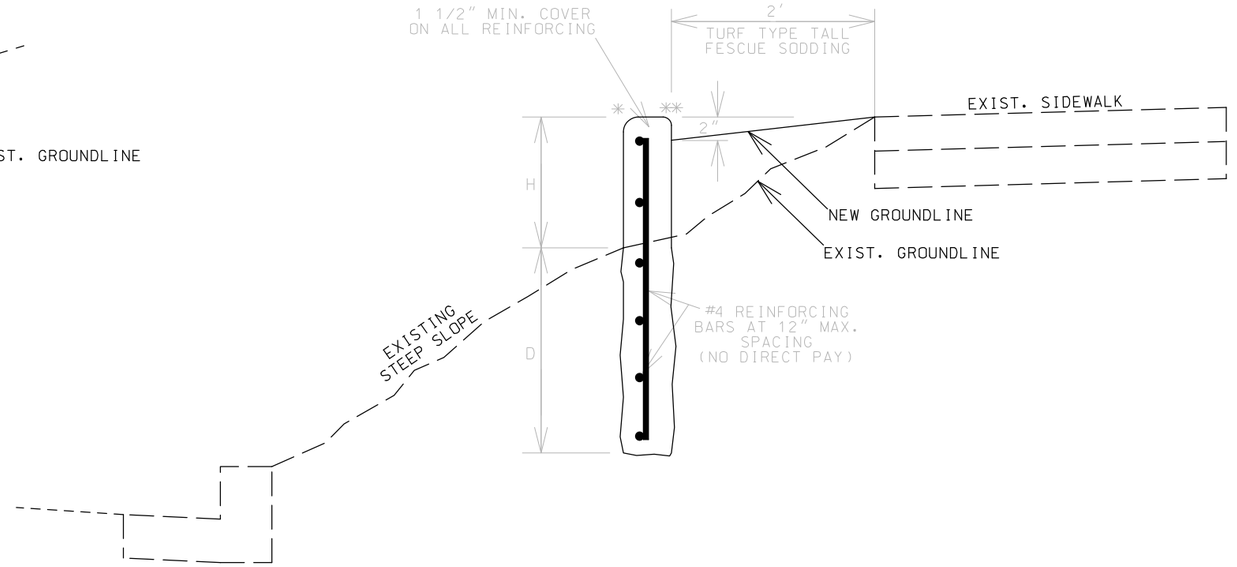
Bartlett & West
601 MONROE ST. SUITE 201 - JEFFERSON CITY, MO 65101
PHONE 573-634-3181
CERTIFICATE OF AUTHORITY NO. 000167 - ENGINEERING
WWW.BARTLETTWEST.COM

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

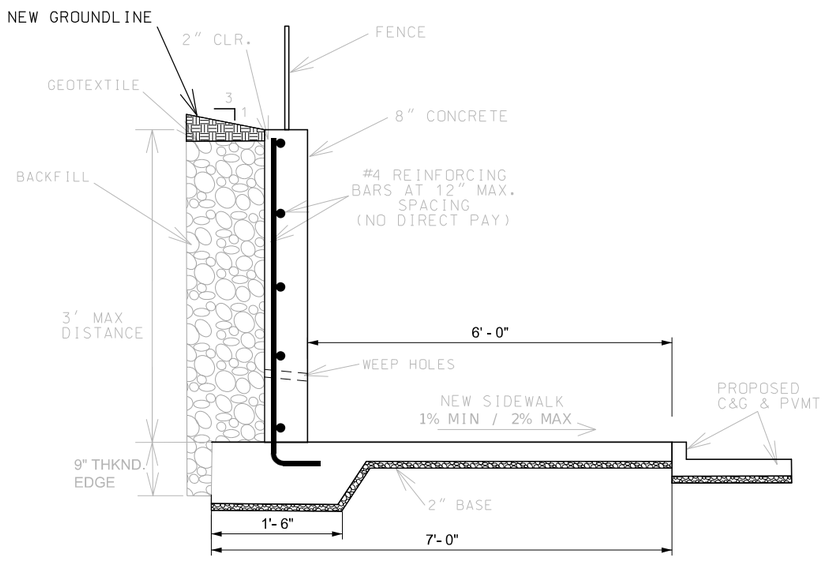
* ROUND TO 3/4" RADIUS
** ROUND TO 1/4" RADIUS
H = 2'-6" MAX. (30")
D = BURY DEPTH (FORMING NOT REQUIRED)
THIS SHALL BE 18 INCHES OR "H" WHICHEVER IS GREATER.
VERTICAL REINFORCING LENGTHS VARY AS NEEDED.
DEPTH MAY BE REDUCED IF KEYED 6" IN ROCK

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
8 OF 8

STATE OF MISSOURI
ROBERT B. GREEN
NUMBER PE-2539
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED
3/3/2025

ROUTE	STATE
VAR.	MO
DISTRICT	SHEET NO.
SW	2

COUNTY
NEWTON
JOB NO.
J7S3506
CONTRACT ID.
PROJECT NO.
BRIDGE NO.

DESCRIPTION	DATE

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

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

Bartlett & West
601 MONROE ST. SUITE 201 - JEFFERSON CITY, MO 65101
PHONE 573-634-3181
CERTIFICATE OF AUTHORITY NO. 000167 - ENGINEERING
WWW.BARTLETTWEST.COM

TRUNCATED DOMES, CURB RAMP, SIDEWALK, TYPE 1 AGGREGATE, ADA LINEAR GRADING, TURF TYPE TALL FESCUE SODDING, CURBS

SHEET	STATION	STATION	LOCATION	LT RT	TRUNC. DOMES	CURB RAMP				SIDEWALK									4" TYPE 1 AGGR.	ADA LINEAR GRADING	SOD	S-CURB			REMARKS
										S.W. WIDTH	✳ PAY WIDTH	4" SDWLK.	4" CUT THRU	4" BUS STOP	4" PASS AREA	8" SDWLK.	8" MODIFD. SDWLK.	INTEGRAL CURB				LESS/EQ 6" (1"-6")	OVER 6" (6"-12")	MODIFIED (12"-30")	
					SF	LENGTH	WIDTH	TYPE	SY	LF	LF	SY	SY	SY	SY	SY	SY	✳ LF	SY	LF	SY	LF	LF	LF	
1	7+09.71	7+90.59	T	RT	10.0	6	5	1-C	4.7	5	5	45.3	0.0	0.0	0.0	0.0	0.0		50.0	86.2	17.7				
1	7+90.59	8+11.16	T	RT	10.0	6	5	1-C	7.8	5	5	2.8	0.0	0.0	0.0	0.0	0.0		10.6	15.5	5.9				
1	8+24.05	9+82.81	T	RT	10.0	6	5	1-C	8.4	5	5	78.9	0.0	0.0	0.0	0.0	0.0		87.3	163.9	30.6				
1	9+82.81	10+06.37	T	RT	10.0	6	5	1-C	9.0	5	5	2.8	0.0	0.0	0.0	0.0	0.0		11.8	18.5	6.4				
2	12+95.56	13+23.47	T	RT	10.0	11	5	1-C	8.2	5	5	15.4	0.0	0.0	0.0	0.0	0.0		23.6	27.8	7.9				
2	17+57.67	17+74.65	T	LT	10.0	11	5	1-C	6.5	5	5	5.2	0.0	0.0	0.0	0.0	0.0		11.7	11.8	5.3				
2	17+67.62	17+96.81	T	RT	10.0	11	5	1-C	6.9	5	6	19.1	0.0	0.0	0.0	0.0	0.0	29.7	26.0	30.3	8.3				
TOTAL					70.0	--	--	--	51.5	--	--	169.5	0.0	0.0	0.0	0.0	0.0	✳	221.0	354.0	82.1	0.0	0.0	0.0	
USE					70	--	--	--	51.5	--	--	169.5				0.0		✳	221	355	83	0	0	0	

QTY IS INCLUDED IN 8" SW FOR PINNED-ON ISLANDS, IF NEED PVMNT REPAIR UNDERNEATH. ✳ PAY WIDTH INCLUDES INTEGRAL CURB CONC. WIDTH/HEIGHT. SEE TYPICAL SHEET 1 FOR ALL PAY ITEM LIMITS.
SOD IS ESTIMATED AT 2.25' FOR CURB RAMP AREAS AND AT 1.5' FOR LONG SIDEWALK RUNS.

REMOVAL OF IMPROVEMENTS

ROUTE	STA.	STA.	LOCATION	DESCRIPTION	AMOUNT	UNIT	REMARKS
T	7+09.66	7+86.38	RT	EXIST. EARTH	16.1	SY	
T	7+11.06	7+93.35	RT	EXIST. SIDEWALK	29.8	SY	3' SAWCUT
T	7+79.04	8+11.16	RT	EXIST. EARTH	10.3	SY	
T	8+30.39	10+06.37	RT	EXIST. EARTH	64.9	SY	
T	8+30.90	8+36.89	RT	EXIST. SIDEWALK	1.3	SY	
T	8+36.25	8+67.32	RT	EXIST. SIDEWALK	11.3	SY	
T	9+17.15	9+36.70	RT	EXIST. SIDEWALK	7.2	SY	
T	9+65.02	9+98.40	RT	EXIST. SIDEWALK	12.2	SY	
T	12+92.08	13+11.51	RT	EXIST. SIDEWALK	9.6	SY	4' SAWCUT
T	12+95.41	13+23.47	RT	EXIST. EARTH	15.0	SY	
T	17+61.22	17+76.75	LT	EXIST. SIDEWALK	6.8	SY	3' SAWCUT
T	17+61.22	17+72.43	LT	EXIST. EARTH	2.2	SY	
T	17+63.80	17+72.73	LT	EXIST. EARTH	0.7	SY	
T	17+67.12	17+96.95	RT	EXIST. EARTH	22.2	SY	
T	17+91.60	17+96.95	RT	EXIST. SIDEWALK	2.1	SY	4' SAWCUT
T	17+95.89	18+11.07	RT	EXIST. SIDEWALK	6.0	SY	4' SAWCUT
TOTALS					NO DIRECT PAY		

NOTE: REMOVALS OF IMPROVEMENTS TABLES ARE FOR INFORMATION ONLY. QUANTITIES ARE PAID FOR UNDER LINEAR GRADING CLASS 1 FOR ADA FACILITIES

TREE REMOVAL

ROUTE	STA.	LOCATION	AMOUNT	REMARKS
T	9+41.93	RT	1	
TOTALS			1	

DRAINAGE STRUCTURES, PIPES, AND END SECTIONS

RTE	DRAINAGE ID	STA	OFFSET	GROUP C PIPE 15 IN. (LF)	REMARKS
T	P1	7+11.99	13.79	14.0	NO DIRECT PAYMENT FOR EXCAVATION & BACKFILL
TOTALS				14.0	
USE				14	

PRECAST LIDS ARE INCLUDED IN PER FT QUANTITY FOR INLETS

PAVED APPROACH

ROUTE	STA.	LOCATION	TYPE 5 AGGREGATE FOR BASE (4 IN. THICK) SY	PAVED APPROACH, 8 IN. SY	REMARKS
T	7+12.21	RT	0.0	0.0	
T	8+18.07	RT	15.9	15.9	
T	10+03.85	RT	0.0	0.0	
T	12+22.00	RT	0.0	0.0	
T	17+70.12	RT	0.0	0.0	
T	17+70.15	LT	0.0	0.0	
TOTAL			15.9	15.9	
USE			16	15.9	

TEMPORARY EROSION AND SEDIMENT CONTROL DEVICES

ROUTE	STA.	LOCATION	SLIT FENCE LF	ROCK DITCH CHECK LF	SEDIMENT REMOVAL CY	REMARKS
T	7+50.54	RT		3	1	USE AS DIRECTED BY ENGINEER
T	7+57.62	RT	220		2.2	USE AS DIRECTED BY ENGINEER
T	7+99.71	RT		3	1	USE AS DIRECTED BY ENGINEER
T	8+29.44	RT		3	1	USE AS DIRECTED BY ENGINEER
T	9+17.29	RT		3	1	USE AS DIRECTED BY ENGINEER
T	9+14.38	RT	360		3.6	USE AS DIRECTED BY ENGINEER
T	10+09.48	RT		3	1	USE AS DIRECTED BY ENGINEER
T	10+31.97	RT		3	1	USE AS DIRECTED BY ENGINEER
T	13+00.05	RT		3	1	USE AS DIRECTED BY ENGINEER
T	13+08.08	RT		3	1	USE AS DIRECTED BY ENGINEER
T	13+08.68	RT	90		0.9	USE AS DIRECTED BY ENGINEER
T	13+47.93	RT		3	1	USE AS DIRECTED BY ENGINEER
T	17+67.27	LT	35		0.4	USE AS DIRECTED BY ENGINEER
T	17+80.49	RT	85		0.9	USE AS DIRECTED BY ENGINEER
TOTAL			790	27	17	
USE			790	27	17	

PER EPG 806.6: QUANTITIES FOR SEDIMENT REMOVAL ARE ESTIMATED USING 1 CY PER DITCH CHECK, 1 CY PER 100 LINEAR FEET OF SILT FENCE, AND 1 CY PER INLET CHECK

PAVEMENT MARKING (PERMANENT)

ROUTE	LOCATION	DESCRIPTION OF LOCATION	PREFORMED THERMOPLASTIC PAVEMENT MARKING, 30 IN. WHITE MIDBLOCK (EA)	REMARKS
T	RT/LT	CROSSING OF ROUTE T	5.0	
TOTAL			5.0	
USE			5	

CONTRACTOR FURNISHED SURVEYING AND STAKING

TOTAL = 1 LUMP SUM

MOBILIZATION

TOTAL = 1 LUMP SUM

SUMMARY OF QUANTITIES
FAIRVIEW
SHEET 1 OF 10

STATE OF MISSOURI
ROBERT B. GREEN
NUMBER PE-25339
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED SEALED AND DATED ELECTRONICALLY.

DATE PREPARED 4/21/2025
ROUTE VAR. | STATE MO
DISTRICT SW | SHEET NO. 3
COUNTY NEWTON
JOB NO. J7S3506
CONTRACT ID.
PROJECT NO.
BRIDGE NO.

DESCRIPTION | DATE

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

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

Bartlett & West
601 MONROE ST. SUITE 201 - JEFFERSON CITY, MO 65101
PHONE 573-634-3181
CERTIFICATE OF AUTHORITY NO. 000167 - ENGINEERING
WWW.BARTLETTWEST.COM

REMOVAL OF IMPROVEMENTS

ROUTE	STA.	STA.	LOCATION	DESCRIPTION	AMOUNT	UNIT	REMARKS
60	901+60.55	901+65.49	LT	EXIST. EARTH	2.8	SY	
60	901+65.38	901+78.17	LT	EXIST. SIDEWALK	8.3	SY	5' SAWCUT
60	902+63.15	902+75.86	LT	EXIST. SIDEWALK	7.8	SY	5' SAWCUT
60	903+26.49	903+42.26	LT	EXIST. SIDEWALK	7.6	SY	5' SAWCUT
60	905+35.66	905+43.79	LT	EXIST. SIDEWALK	1.4	SY	5' SAWCUT
60	905+39.89	905+57.31	LT	EXIST. EARTH	17.9	SY	
60	909+38.65	909+57.70	RT	EXIST. PAVEMENT	22.5	SY	
60	909+41.15	909+41.65	RT	EXIST. CURB	10.0	LF	
60	909+41.65	909+57.70	RT	EXIST. SIDEWALK	13.0	SY	6' SAWCUT
60	915+38.96	915+59.31	LT	EXIST. PAVEMENT	10.9	SY	
60	915+38.99	915+54.93	LT	EXIST. CURB	21.7	LF	
60	915+39.00	915+57.47	LT	EXIST. EARTH	14.1	SY	
60	915+39.08	915+55.27	RT	EXIST. CURB	17.2	LF	
60	915+39.08	915+57.63	RT	EXIST. PAVEMENT	6.9	SY	
60	915+39.08	915+55.13	RT	EXIST. EARTH	12.0	SY	
E	284+60.60	284+81.99	LT	EXIST. SIDEWALK	17.7	SY	
E	284+62.60	284+82.51	LT	EXIST. CURB	21.3	LF	
E	284+71.60	284+84.02	LT	EXIST. CURB	10.8	LF	
				TOTALS	NO DIRECT PAY		

NOTE: REMOVALS OF IMPROVEMENTS TABLES ARE FOR INFORMATION ONLY. QUANTITIES ARE PAID FOR UNDER LINEAR GRADING CLASS 1 FOR ADA FACILITIES

PAVED APPROACH

ROUTE	STA.	LOCATION	TYPE 5 AGGREGATE FOR BASE (4 IN. THICK)	PAVED APPROACH 8 IN.	REMARKS
			SY	SY	
60	903+02.82	LT	95.2	95.2	
		TOTAL	95.2	95.2	
		USE	95	95.2	

DRAINAGE STRUCTURES, PIPES, AND END SECTIONS

RTE	DRAINAGE ID	STA	OFFSET	CURVED VANE GRATE AND FRAME 4' X 2'	PRECAST CONCRETE DROP INLET 4' X 2'	8" CONCRETE PAVEMENT	CLASS 3 EXCAVTION	REMARKS
				(EA)	(FT)	SY	(CY)	
60	I-1	909+55.28	21.67'	1.0	4.0	2.2	2.2	
			TOTALS	1.0	4.0	2.2	2.2	
			USE	1	4	2.2	2	

PRECAST LIDS ARE INCLUDED IN PER FT QUANTITY FOR INLETS

CURB AND GUTTER

ROUTE	STA.	STA.	LOCATION	TYPE 5 AGGREGATE FOR BASE (4 IN. THICK)	TYPE B CURB AND GUTTER	MODIFIED TYPE A GUTTER	REMARKS
				SY	LF	LF	
60	909+38.65	909+52.74	RT	9.6	10.0		
S COLE ST	915+38.98	915+59.31	LT	6.0	19.5		
S COLE ST	915+39.08	915+57.63	RT	6.9	12.2		
E	284+62.35	284+72.28	RT	2.2		10.0	10' X 2' STEEL PLATE
E	284+62.60	284+71.60	LT	2.0		9.0	9' X 2' STEEL PLATE
E	287+28.13	287+39.06	LT	2.2		10.0	10' X 2' STEEL PLATE
E	287+28.25	287+38.21	RT	2.2		10.0	10' X 2' STEEL PLATE
			TOTALS	31.1	41.7	39.0	
			USE	31	42	39	

CONCRETE MEDIAN

ROUTE	STA.	STA.	LOCATION	CONCRETE MEDIAN 6 IN.	TYPE 1 AGG FOR BASE (4 IN. THICK)	REMARKS
				SY	SY	
60	909+41.20	909+47.73	RT	5.4	5.4	
E	284+62.60	284+64.60	LT	1.4	1.4	
E	284+69.59	284+71.59	LT	1.6	1.6	
E	284+62.22	284+64.19	RT	2.5	2.5	
E	284+70.18	284+72.28	RT	2.4	2.4	
E	287+28.94	287+30.91	LT	3.0	3.0	
E	287+36.91	287+39.05	LT	2.8	2.8	
E	287+28.27	287+30.42	RT	3.0	3.0	
E	287+36.28	287+38.39	RT	2.9	2.9	
			TOTALS	25.0	25.0	
			USE	25.0	25	

SUMMARY OF QUANTITIES
GRANBY
SHEET 2 OF 10

STATE OF MISSOURI
ROBERT B. GREEN
NUMBER PE-25339
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED 4/22/2025

ROUTE	STATE
VAR.	MO
DISTRICT	SHEET NO.
SW	3

COUNTY: NEWTON
JOB NO.: J7S3506
CONTRACT ID.:
PROJECT NO.:
BRIDGE NO.:

DESCRIPTION	DATE

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

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

Bartlett & West
601 MONROE ST. SUITE 201 - JEFFERSON CITY, MO 65101
PHONE 573-634-3181
CERTIFICATE OF AUTHORITY NO. 000167 - ENGINEERING
WWW.BARTLETTWEST.COM

TRUNCATED DOMES, CURB RAMP, SIDEWALK, TYPE 1 AGGREGATE, ADA LINEAR GRADING, TURF TYPE TALL FESCUE SODDING, CURBS

SHEET	STATION	STATION	LOCATION	LT RT	TRUNC. DOMES	CURB RAMP				SIDEWALK									4" TYPE 1 AGGR.	ADA LINEAR GRADING	SOD	S-CURB			REMARKS
										S.W. WIDTH	✳ PAY WIDTH	4" SDWLK.	4" CUT THRU	4" BUS STOP	4" PASS AREA	8" SDWLK.	8" MODIFD. SDWLK.	INTEGRAL CURB				LESS/EQ 6" (1"–6")	OVER 6" (6"–12")	MODIFIED (12"–30")	
					SF	LENGTH	WIDTH	TYPE	SY	LF	LF	SY	SY	SY	SY	SY	SY	✳ LF	SY	LF	SY	LF	LF	LF	
1	901+60.55	901+83.04	US 60	LT	10.0	6	5	1-C	7.3	5	5	5.6	0.0	0.0	0.0	0.0	0.0		12.9	18.0	6.3				
1	902+58.29	902+75.84	US 60	LT	0.0	8	5	1-C	4.4	5	5	5.5	0.0	0.0	0.0	0.0	0.0		9.9	12.9	5.4				
1	903+29.46	903+47.10	US 60	LT	0.0	8	5	1-C	4.5	5	5	5.5	0.0	0.0	0.0	0.0	0.0		10.0	12.9	5.4				
1	905+35.80	905+57.31	US 60	LT	10.0	7	5	1-C	7.8	5	5	11.5	0.0	0.0	0.0	0.0	0.0		19.3	21.1	6.8				
2	909+40.99	909+47.68	MAIN ST	RT	10.0	7	5	2-A	3.4	5	6	10.7	0.0	0.0	0.0	0.0	0.0		14.1	17.7	6.2				
2	909+47.68	909+57.70	MAIN ST	RT	10.0	9	5	1-C	7.7	5	5	2.5	0.0	0.0	0.0	0.0	0.0		10.2	18.8	6.4				
2	915+39.08	915+55.13	S COLE ST	RT	20.0	7	5	1-C	12.6	5	5	0.0	0.0	0.0	0.0	0.0	0.0		12.6	4.9	4.1				
2	915+39.50	915+57.45	S COLE ST	LT	20.0	12	6	N/A	16.9	0	0	0.0	0.0	0.0	0.0	0.0	0.0		16.9	18.8	6.4			12.0	
3	284+60.60	284+81.98	RT E	LT	20.0	3	5	1-C	11.1	5	6	7.5	0.0	0.0	0.0	0.0	0.0		18.6	9.0	4.8				
3	284+61.33	284+73.33	RT E	RT	10.0	5	5	1-C	5.7	5	6	9.0	0.0	0.0	0.0	0.0	0.0	20.0	14.7	6.0	4.3				
3	287+25.78	287+35.93	RT E	RT	10.0	5	5	1-C	4.6	5	6	7.8	0.0	0.0	0.0	0.0	0.0	20.0	12.4	6.0	4.3				
3	287+31.41	287+36.63	RT E	LT	10.0	5	5	1-C	7.9	5	6	2.3	0.0	0.0	0.0	0.0	0.0	20.0	10.2	6.0	4.3				
				TOTAL	130.0	--	--	--	93.9	--	--	67.9	0.0	0.0	0.0	0.0	0.0	✳	161.8	152.1	64.7	0.0	0.0	12.0	
				USE	130	--	--	--	93.9	--	--	67.9				0.0		✳	162	153	65	0	0	12	

QTY IS INCLUDED IN 8" SW FOR PINNED-ON ISLANDS, IF NEED PVMNT REPAIR UNDERNEATH. ✳ PAY WIDTH INCLUDES INTEGRAL CURB CONC. WIDTH/HEIGHT. SEE TYPICAL SHEET 1 FOR ALL PAY ITEM LIMITS.
SOD IS ESTIMATED AT 2.25' FOR CURB RAMP AREAS AND AT 1.5' FOR LONG SIDEWALK RUNS.

PAVEMENT MARKING (PERMANENT)

ROUTE	LOCATION	DESCRIPTION OF LOCATION	PREFORMED THERMOPLASTIC PAVEMENT MARKING, 30 IN. WHITE MIDBLOCK (EA)	PREFORMED THERMOPLASTIC STOP BAR 24 IN. WHITE (LF)	REMARKS
60	RT/LT	US 60 / ROUTE E	20.0	54.0	
60	RT/LT	US 60 / COLE ST	5.0		
E	RT/LT	ROUTE E / CHURCH ST.	5.0		
E	RT/LT	ROUTE E / NEWTON ST	5.0		
		TOTAL	35.0	54.0	
		USE	35	54	

TEMPORARY EROSION AND SEDIMENT CONTROL DEVICES

ROUTE	STA.	LOCATION	SLIT FENCE (LF)	ROCK DITCH CHECK (LF)	CURB INLET CHECK (EA)	SEDIMENT REMOVAL (CY)	REMARKS
60	901+68.72	LT	40			0.4	USE AS DIRECTED BY ENGINEER
60	902+31.09	LT		3		1	USE AS DIRECTED BY ENGINEER
60	902+69.92	LT	30			0.3	USE AS DIRECTED BY ENGINEER
60	902+75.04	LT		3		1	USE AS DIRECTED BY ENGINEER
60	903+34.52	LT	30			0.3	USE AS DIRECTED BY ENGINEER
60	903+36.44	LT		3		1	USE AS DIRECTED BY ENGINEER
60	903+58.89	LT		3		1	USE AS DIRECTED BY ENGINEER
60	905+40.35	LT		3		1	USE AS DIRECTED BY ENGINEER
60	905+47.83	LT	35			0.4	USE AS DIRECTED BY ENGINEER
60	909+41.13	RT			1	1	USE AS DIRECTED BY ENGINEER
60	909+55.25	LT			1	1	USE AS DIRECTED BY ENGINEER
60	915+46.12	RT	25			0.3	USE AS DIRECTED BY ENGINEER
60	915+49.67	LT	25			0.3	USE AS DIRECTED BY ENGINEER
E	287+40.47	LT			1	1	USE AS DIRECTED BY ENGINEER
E	287+41.65	RT			1	1	USE AS DIRECTED BY ENGINEER
		TOTAL	185	15	4	11.0	
		USE	185	15	4	11	

PER EPG 806.6: QUANTITIES FOR SEDIMENT REMOVAL ARE ESTIMATED USING 1 CY PER DITCH CHECK, 1 CY PER 100 LINEAR FEET OF SILT FENCE, AND 1 CY PER INLET CHECK

SUMMARY OF QUANTITIES
GRANBY
SHEET 3 OF 10

STATE OF MISSOURI
ROBERT B. GREEN
NUMBER PE-25339
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED SEALED AND DATED ELECTRONICALLY.

DATE PREPARED 4/21/2025
ROUTE VAR. | STATE MO
DISTRICT SW | SHEET NO. 3
COUNTY NEWTON
JOB NO. J7S3506
CONTRACT ID.
PROJECT NO.
BRIDGE NO.

DESCRIPTION | DATE

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

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PHONE 573-634-3181
CERTIFICATE OF AUTHORITY NO. 000167 - ENGINEERING
WWW.BARTLETTWEST.COM

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

REMOVAL OF IMPROVEMENTS (TABLE 1 OF 3)

ROUTE	STA.	STA.	LOCATION	DESCRIPTION	AMOUNT	UNIT	REMARKS
BU 60	21+11.54	22+14.97	RT	EXIST. PAVEMENT	30.3	SY	
BU 60	21+14.06	21+21.59	RT	EXIST. CURB	13.3	LF	
BU 60	21+14.18	21+92.41	LT	EXIST. PAVEMENT	23.5	SY	
BU 60	21+14.25	21+22.37	LT	EXIST. CURB	7.4	LF	
BU 60	21+14.93	21+76.46	RT	EXIST. SIDEWALK	37.3	SY	6' SAWCUT
BU 60	21+15.12	21+19.30	RT	EXIST. DOMES	0.9	SY	
BU 60	21+16.93	21+22.34	LT	EXIST. CURB	5.4	LF	
BU 60	21+17.08	22+83.33	LT	EXIST. SIDEWALK	98.0	SY	5' SAWCUT
BU 60	21+17.49	21+20.90	LT	EXIST. DOMES	1.1	SY	
BU 60	21+49.35	22+81.81	LT	EXIST. CURB	132.9	LF	
BU 60	22+15.41	22+79.20	LT	EXIST. PAVEMENT	17.7	SY	
BU 60	22+43.09	23+19.06	RT	EXIST. PAVEMENT	21.1	SY	
BU 60	22+98.62	23+24.55	LT	EXIST. SIDEWALK	13.8	SY	5' SAWCUT
BU 60	23+03.58	23+20.75	LT	EXIST. PAVEMENT	4.8	SY	
BU 60	23+55.10	23+79.01	LT	EXIST. CURB	23.8	LF	
BU 60	23+57.05	23+91.99	RT	EXIST. PAVEMENT	10.1	SY	
BU 60	23+58.75	23+84.75	LT	EXIST. PAVEMENT	7.2	SY	
BU 60	24+32.75	24+50.64	LT	EXIST. PAVEMENT	4.4	SY	
BU 60	24+36.50	24+58.44	LT	EXIST. CURB	21.9	LF	
BU 60	24+36.96	24+58.36	LT	EXIST. SIDEWALK	11.4	SY	
BU 60	24+43.83	24+56.29	RT	EXIST. CURB	16.0	LF	
BU 60	24+44.47	24+55.46	RT	EXIST. EARTH	3.9	SY	
BU 60	24+53.63	24+57.91	LT	EXIST. DOMES	1.0	SY	
BU 60	24+87.69	25+27.56	LT	EXIST. CURB	39.8	LF	
BU 60	24+89.80	24+94.63	LT	EXIST. DOMES	1.0	SY	
BU 60	24+89.57	25+27.57	LT	EXIST. SIDEWALK	21.5	SY	
BU 60	24+89.86	24+92.65	RT	EXIST. CURB	5.9	LF	
BU 60	24+90.17	25+15.15	RT	EXIST. SIDEWALK	16.0	SY	
BU 60	24+91.70	24+96.63	RT	EXIST. DOMES	1.0	SY	
BU 60	24+95.19	25+11.13	RT	EXIST. PAVEMENT	3.0	SY	
BU 60	24+95.61	25+23.47	LT	EXIST. PAVEMENT	7.4	SY	
BU 60	24+95.98	25+22.40	LT	EXIST. CURB	26.5	LF	
BU 60	25+35.44	25+92.89	RT	EXIST. SIDEWALK	40.4	SY	5' SAWCUT
BU 60	25+40.47	25+12.89	RT	EXIST. CURB	52.4	LF	
BU 60	25+40.49	25+12.89	RT	EXIST. PAVEMENT	14.2	SY	
BU 60	25+64.22	25+98.76	LT	EXIST. SIDEWALK	23.1	SY	6' SAWCUT
BU 60	25+64.23	25+99.24	LT	EXIST. CURB	34.7	LF	
BU 60	25+68.16	25+95.30	LT	EXIST. PAVEMENT	6.9	SY	
BU 60	25+68.53	25+99.24	LT	EXIST. CURB	34.2	LF	
BU 60	26+33.25	26+49.65	LT	EXIST. CURB	16.4	LF	
BU 60	26+33.68	36+50.81	RT	EXIST. SIDEWALK	10.5	SY	
BU 60	26+33.84	26+46.85	RT	EXIST. PAVEMENT	3.4	SY	
BU 60	26+33.84	26+46.84	RT	EXIST. CURB	13.0	LF	
BU 60	26+34.36	26+48.78	LT	EXIST. SIDEWALK	8.3	SY	
BU 60	26+37.27	26+45.61	LT	EXIST. CURB	8.3	LF	
BU 60	26+37.28	26+45.61	LT	EXIST. PAVEMENT	1.8	SY	
BU 60	26+60.93	26+73.38	LT	EXIST. SIDEWALK	7.9	SY	
BU 60	26+65.32	26+73.22	LT	EXIST. PAVEMENT	1.7	SY	
BU 60	26+65.34	26+73.34	LT	EXIST. CURB	8.0	LF	
BU 60	26+69.65	27+09.83	LT	EXIST. HANDRAIL	40.2	LF	40' SAWCUT
BU 60	26+88.75	27+05.75	RT	EXIST. SIDEWALK	10.9	SY	5' SAWCUT
BU 60	26+92.77	27+05.77	RT	EXIST. CURB	13.0	LF	
BU 60	26+92.77	27+05.77	RT	EXIST. PAVEMENT	3.5	SY	
BU 60	27+15.69	28+04.64	LT	EXIST. HANDRAIL	89.0	SY	90' SAWCUT
BU 60	27+48.65	27+65.65	RT	EXIST. SIDEWALK	11.0	SY	
BU 60	27+48.66	27+61.66	RT	EXIST. PAVEMENT	4.3	SY	
BU 60	27+48.66	27+61.66	RT	EXIST. CURB	13.0	LF	
BU 60	27+92.55	28+20.28	RT	EXIST. SIDEWALK	18.9	SY	
BU 60	27+96.40	28+17.57	RT	EXIST. PAVEMENT	7.0	SY	
BU 60	27+97.79	28+26.08	RT	EXIST. CURB	27.7	LF	
BU 60	28+03.86	28+16.32	LT	EXIST. SIDEWALK	6.6	SY	6' SAWCUT
BU 60	28+03.86	28+77.51	LT	EXIST. CURB	17.5	LF	
BU 60	28+03.91	28+16.70	LT	EXIST. CURB	12.7	LF	
BU 60	28+41.38	28+94.63	RT	EXIST. CURB	58.8	LF	
BU 60	28+42.22	28+94.09	RT	EXIST. SIDEWALK	27.4	SY	5' SAWCUT
BU 60	28+46.22	28+90.94	RT	EXIST. PAVEMENT	14.9	SY	
BU 60	28+60.95	28+99.97	LT	EXIST. SIDEWALK	22.5	SY	5' SAWCUT
BU 60	28+64.11	28+96.19	LT	EXIST. PAVEMENT	9.5	SY	
BU 60	28+67.26	28+91.90	LT	EXIST. CURB	24.7	LF	
BU 60	29+16.87	29+39.47	RT	EXIST. SIDEWALK	11.5	SY	5' SAWCUT
BU 60	29+18.24	29+37.12	RT	EXIST. CURB	18.7	LF	
BU 60	29+19.94	29+59.19	RT	EXIST. PAVEMENT	15.1	SY	
BU 60	29+53.21	29+59.20	RT	EXIST. SIDEWALK	2.7	SY	5' SAWCUT
BU 60	29+93.78	30+07.31	RT	EXIST. CURB	13.5	LF	
BU 60	29+93.79	30+05.53	RT	EXIST. SIDEWALK	7.1	SY	6' SAWCUT
BU 60	29+93.95	30+07.28	RT	EXIST. CURB	17.4	LF	
BU 60	29+93.97	30+23.22	RT	EXIST. PAVEMENT	69.0	SY	
				TOTALS	NO DIRECT PAY		

NOTE: REMOVALS OF IMPROVEMENTS TABLES ARE FOR INFORMATION ONLY. QUANTITIES ARE PAID FOR UNDER LINEAR GRADING CLASS 1 FOR ADA FACILITIES

REMOVAL OF IMPROVEMENTS (TABLE 2 OF 3)

ROUTE	STA.	STA.	LOCATION	DESCRIPTION	AMOUNT	UNIT	REMARKS
BU 60	30+25.30	31+13.27	LT	EXIST. PAVEMENT	76.3	SY	
BU 60	30+90.18	31+03.92	RT	EXIST. GRAVEL	5.7	SY	
BU 60	30+96.27	31+22.61	RT	EXIST. PAVEMENT	25.7	SY	
BU 60	30+98.44	31+07.91	RT	EXIST. EARTH	1.3	SY	
BU 60	31+00.72	31+04.57	LT	EXIST. SIDEWALK	1.2	SY	4' SAWCUT
BU 60	31+10.66	31+20.14	RT	EXIST. CURB	10.4	LF	
BU 60	31+38.63	31+65.01	LT	EXIST. PAVEMENT	24.2	SY	
BU 60	31+44.93	31+53.76	LT	EXIST. EARTH	6.8	SY	
BU 60	31+47.10	31+90.19	RT	EXIST. PAVEMENT	14.6	LF	
BU 60	31+50.22	31+92.38	RT	EXIST. CURB	48.6	LF	
BU 60	31+50.55	31+94.87	RT	EXIST. SIDEWALK	30.6	SY	6' SAWCUT
BU 60	31+50.93	31+55.04	RT	EXIST. DOMES	1.0	SY	
BU 60	31+59.50	31+95.51	RT	EXIST. CURB	40.2	LF	
BU 60	32+24.67	32+33.95	RT	EXIST. SIDEWALK	8.3	SY	5' SAWCUT
BU 60	32+27.70	32+33.98	RT	EXIST. PAVEMENT	2.2	SY	
BU 60	32+46.30	32+94.03	LT	EXIST. SIDEWALK	26.0	SY	5' SAWCUT
BU 60	32+49.08	32+94.02	LT	EXIST. CURB	45.0	LF	
BU 60	32+49.69	32+92.70	LT	EXIST. CURB	43.0	LF	
BU 60	32+50.25	32+94.03	LT	EXIST. PAVEMENT	10.9	SY	
BU 60	32+58.49	32+69.05	RT	EXIST. SIDEWALK	7.1	SY	6' SAWCUT
BU 60	32+58.49	32+69.06	RT	EXIST. CURB	10.6	LF	
BU 60	32+58.52	32+58.52	RT	EXIST. PAVEMENT	0.0	SY	
BU 60	32+58.52	32+69.15	RT	EXIST. CURB	10.6	LF	
BU 60	33+03.85	33+14.85	RT	EXIST. SIDEWALK	6.1	SY	6' SAWCUT
BU 60	33+03.92	33+14.82	RT	EXIST. CURB	11.4	LF	
BU 60	33+05.89	33+14.85	RT	EXIST. CURB	9.1	LF	
BU 60	33+06.85	33+14.85	RT	EXIST. PAVEMENT	2.2	SY	
BU 60	33+10.34	33+22.34	LT	EXIST. SIDEWALK	6.8	SY	5' SAWCUT
BU 60	33+14.32	33+22.32	LT	EXIST. PAVEMENT	2.3	SY	
BU 60	33+14.33	33+22.33	LT	EXIST. CURB	8.0	LF	
BU 60	34+08.50	34+15.31	RT	EXIST. SIDEWALK	4.2	SY	6' SAWCUT
BU 60	34+08.50	34+15.30	RT	EXIST. CURB	6.8	LF	
BU 60	34+08.56	34+12.08	RT	EXIST. CURB	3.5	LF	
BU 60	34+08.56	34+16.58	RT	EXIST. PAVEMENT	2.1	SY	
BU 60	34+12.12	34+23.58	LT	EXIST. SIDEWALK	5.2	SY	5' SAWCUT
BU 60	34+12.12	34+20.28	LT	EXIST. CURB	8.2	LF	
BU 60	34+12.12	34+20.12	LT	EXIST. PAVEMENT	2.2	SY	
BU 60	34+43.37	34+52.37	LT	EXIST. PAVEMENT	2.5	SY	
BU 60	34+43.92	34+52.37	LT	EXIST. SIDEWALK	3.5	SY	5' SAWCUT
BU 60	34+47.52	34+52.37	LT	EXIST. CURB	4.8	LF	
BU 60	34+55.59	34+67.79	RT	EXIST. SIDEWALK	6.7	SY	5' SAWCUT
BU 60	34+55.63	34+67.74	RT	EXIST. CURB	12.1	LF	
BU 60	34+57.70	34+67.79	RT	EXIST. CURB	10.1	LF	
BU 60	34+59.79	34+67.81	RT	EXIST. PAVEMENT	2.2	SY	
BU 60	34+03.99	35+11.99	LT	EXIST. PAVEMENT	2.2	SY	
BU 60	35+04.00	35+14.02	LT	EXIST. SIDEWALK	5.2	SY	5' SAWCUT
BU 60	35+04.00	35+14.02	LT	EXIST. CURB	10.0	LF	
BU 60	35+14.24	35+25.29	RT	EXIST. SIDEWALK	6.6	SY	5' SAWCUT
BU 60	35+14.27	35+25.26	RT	EXIST. CURB	8.8	LF	
BU 60	35+14.27	35+23.26	RT	EXIST. CURB	11.0	LF	
BU 60	35+14.28	35+24.29	RT	EXIST. PAVEMENT	2.6	SY	
BU 60	35+25.65	35+37.68	LT	EXIST. SIDEWALK	6.9	SY	5' SAWCUT
BU 60	35+27.50	35+37.65	LT	EXIST. PAVEMENT	2.2	SY	
BU 60	35+29.64	35+37.64	LT	EXIST. CURB	10.1	LF	
BU 60	35+58.33	35+72.15	RT	EXIST. SIDEWALK	8.3	SY	
BU 60	35+59.65	35+72.15	RT	EXIST. CURB	12.5	LF	
BU 60	35+60.44	35+72.11	RT	EXIST. CURB	11.7	LF	
BU 60	35+62.15	35+72.17	RT	EXIST. PAVEMENT	2.7	SY	
BU 60	36+36.72	36+47.66	RT	EXIST. CURB	10.9	LF	
BU 60	36+36.73	36+46.27	RT	EXIST. SIDEWALK	5.5	SY	6' SAWCUT
BU 60	36+36.82	36+47.60	RT	EXIST. CURB	10.8	LF	
BU 60	36+36.83	36+49.87	RT	EXIST. PAVEMENT	3.6	SY	
BU 60	36+52.74	36+60.75	LT	EXIST. PAVEMENT	2.5	SY	
BU 60	36+52.75	36+60.75	LT	EXIST. CURB	8.0	LF	
BU 60	36+52.75	36+64.66	LT	EXIST. SIDEWALK	7.4	SY	5' SAWCUT
BU 60	36+76.62	36+86.68	LT	EXIST. CURB	10.1	LF	
BU 60	36+76.66	36+86.88	LT	EXIST. SIDEWALK	5.6	SY	5' SAWCUT
BU 60	36+78.67	36+86.67	LT	EXIST. CURB	8.0	LF	
BU 60	36+78.67	36+86.67	LT	EXIST. PAVEMENT	2.3	SY	
BU 60	36+98.40	39+55.52	RT	EXIST. PAVEMENT	5.0	SY	
BU 60	37+01.23	37+18.62	RT	EXIST. SIDEWALK	7.9	SY	
BU 60	37+04.23	37+15.49	RT	EXIST. CURB	11.3	LF	
BU 60	37+24.48	37+31.32	LT	EXIST. CURB	6.8	LF	
BU 60	37+24.48	37+31.59	LT	EXIST. SIDEWALK	4.0	SY	
BU 60	37+24.52	37+31.59	LT	EXIST. CURB	7.1	LF	
BU 60	37+24.52	37+27.53	LT	EXIST. PAVEMENT	0.8	SY	
BU 60	37+61.47	39+20.00	LT	EXIST. PAVEMENT	101.1	SY	
				TOTALS	NO DIRECT PAY		

NOTE: REMOVALS OF IMPROVEMENTS TABLES ARE FOR INFORMATION ONLY. QUANTITIES ARE PAID FOR UNDER LINEAR GRADING CLASS 1 FOR ADA FACILITIES

SUMMARY OF QUANTITIES
NEOSHO
SHEET 4 OF 10

STATE OF MISSOURI
ROBERT B. GREEN
NUMBER PE-26339
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED
4/21/2025

ROUTE	STATE
VAR.	MO
DISTRICT	SHEET NO.
SW	3

COUNTY
NEWTON

JOB NO.
J7S3506

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION	DATE

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

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

Bartlett & West
601 MONROE ST, SUITE 201 - JEFFERSON CITY, MO 65101
PHONE 573-634-3181
CERTIFICATE OF AUTHORITY NO. 000167 - ENGINEERING
WWW.BARTLETTWEST.COM

REMOVAL OF IMPROVEMENTS (TABLE 3 OF 3)

ROUTE	STA.	STA.	LOCATION	DESCRIPTION	AMOUNT	UNIT	REMARKS
BU 60	37+63.87	38+26.49	RT	EXIST. PAVEMENT	98.9	SY	
BU 60	37+64.40	37+87.01	RT	EXIST. SIDEWALK	12.7	SY	5' SAWCUT
BU 60	37+64.40	37+87.01	RT	EXIST. CURB	19.8	LF	
BU 60	38+15.31	38+22.27	RT	EXIST. CURB	20.1	LF	
COLLEGE ST	+52.24	+80.78	RT	EXIST. PAVEMENT	30.6	SY	
COLLEGE ST	+62.12	+78.28	RT	EXIST. CURB	34.8	LF	
BU 60	38+57.14	38+92.11	RT	EXIST. PAVEMENT	57.8	SY	
BU 60	39+15.14	39+21.54	LT	EXIST. SIDEWALK	3.6	SY	6' SAWCUT
BU 60	39+15.14	39+20.85	LT	EXIST. CURB	7.4	LF	
BU 60	39+16.16	39+30.08	RT	EXIST. SIDEWALK	11.2	SY	6' SAWCUT
BU 60	39+16.16	39+30.12	RT	EXIST. PAVEMENT	5.4	SY	
BU 60	39+30.29	39+42.23	LT	EXIST. SIDEWALK	8.5	SY	6' SAWCUT
BU 60	39+33.10	39+42.16	LT	EXIST. PAVEMENT	2.3	SY	
BU 60	39+33.12	39+42.17	LT	EXIST. CURB	9.0	LF	
BU 60	41.77.96	41+93.47	LT	EXIST. SIDEWALK	9.4	SY	6' SAWCUT
BU 60	41+78.02	41+93.48	LT	EXIST. CURB	19.5	LF	
BU 60	41+78.03	41+87.05	LT	EXIST. PAVEMENT	2.0	SY	
BU 60	41+78.59	41+90.27	RT	EXIST. PAVEMENT	1.1	SY	
BU 60	41+78.60	41+92.53	RT	EXIST. SIDEWALK	11.5	SY	
BU 60	41+78.72	41+95.02	RT	EXIST. EARTH	2.2	SY	
BU 60	41+81.24	41+93.02	LT	EXIST. DOMES	4.6	SY	
BU 60	41+90.36	41+92.34	RT	EXIST. DOMES	0.9	SY	
BU 60	41+92.39	41+95.42	RT	EXIST. PAVEMENT	1.6	SY	
BU 60	42+17.92	42+49.37	RT	EXIST. PAVEMENT	10.6	SY	
BU 60	42+18.60	42+49.50	RT	EXIST. SIDEWALK	17.3	SY	
BU 60	42+18.88	42+49.51	RT	EXIST. EARTH	1.9	SY	
BU 60	42+18.98	42+27.74	RT	EXIST. DOMES	2.3	SY	
BU 60	42+21.69	42+29.15	LT	EXIST. EARTH	1.0	SY	
BU 60	42+21.69	42+48.85	LT	EXIST. CURB	31.0	LF	
BU 60	42+21.87	42+29.02	LT	EXIST. CURB	7.2	LF	
BU 60	42+22.04	42+48.85	LT	EXIST. SIDEWALK	17.3	SY	
BU 60	42+22.40	42+32.84	LT	EXIST. DOMES	2.5	SY	
BU 60	42+28.85	42+49.42	RT	EXIST. CURB	20.6	LF	
BU 60	42+29.44	42+48.89	LT	EXIST. PAVEMENT	4.6	SY	
BU 60	42+32.68	42+48.19	LT	EXIST. EARTH	1.5	SY	
BU 60	42+32.91	42+48.19	LT	EXIST. CURB	15.3	LF	
BU 60	67+51.65	67+69.66	LT	EXIST. PAVEMENT	3.6	SY	
BU 60	67+53.15	67+69.66	LT	EXIST. CURB	19.8	LF	
BU 60	67+53.65	67+69.65	LT	EXIST. SIDEWALK	9.5	SY	5' SAWCUT
BU 60	70+76.41	70+91.43	LT	EXIST. SIDEWALK	9.5	SY	5' SAWCUT
BU 60	70+76.43	70+91.43	LT	EXIST. CURB	0.0	LF	
BU 60	70+76.43	70+91.43	LT	EXIST. PAVEMENT	2.5	SY	
BU 60	72+17.49	72+32.52	LT	EXIST. SIDEWALK	10.0	SY	5' SAWCUT
BU 60	72+17.52	72+27.52	LT	EXIST. CURB	10.0	LF	
BU 60	72+17.52	723+32.02	LT	EXIST. PAVEMENT	2.6	SY	
BU 60	+35.32	+54.73	RT	EXIST. SIDEWALK	22.9	SY	5' SAWCUT
BU 60	+35.75	+42.47	RT	EXIST. MEDIAN	2.9	SY	
BU 60	+36.96	+43.00	RT	EXIST. DOMES	1.3	SY	
BU 60	+39.85	+46.28	LT	EXIST. CURB	7.6	LF	
BU 60	+39.85	+56.23	LT	EXIST. SIDEWALK	10.6	SY	5' SAWCUT
BU 60	+43.09	+56.87	LT	EXIST. CURB	23.9	LF	
BU 60	+46.77	+54.11	LT	EXIST. DOMES	1.6	SY	
BU 60	+49.74	+54.48	RT	EXIST. DOMES	0.9	SY	
BU 60	22+98.66	23+09.20	LT	EXIST. DOMES	2.5	SY	
BU 60	23+03.14	23+09.26	LT	EXIST. SIDEWALK	4.2	SY	6' SAWCUT
BU 60	23+03.35	23+08.84	RT	EXIST. SIDEWALK	4.8	SY	
BU 60	23+03.71	23+13.92	RT	EXIST. DOMES	2.5	SY	
BU 60	39+89.78	40+11.11	LT	EXIST. SIDEWALK	15.1	SY	4' SAWCUT
BU 60	39+89.78	40+03.44	LT	EXIST. CURB	15.2	LF	
BU 60	39+92.43	40+10.35	LT	EXIST. DOMES	4.9	SY	
BU 60	39+92.85	40+48.44	RT	EXIST. PAVEMENT	19.8	SY	
BU 60	39+93.11	40+12.48	LT	EXIST. PAVEMENT	5.7	SY	
BU 60	40+04.11	40+11.90	LT	EXIST. EARTH	2.8	SY	
BU 60	40+05.23	40+07.11	LT	EXIST. CURB	5.9	LF	
BU 60	40+23.61	40+38.21	RT	EXIST. CURB	22.5	LF	
BU 60	40+24.13	40+40.02	RT	EXIST. SIDEWALK	11.9	SY	
BU 60	40+25.32	40+39.79	RT	EXIST. DOMES	4.2	SY	
BU 60	40+53.40	40+68.14	LT	EXIST. CURB	14.7	LF	
BU 60	40+53.74	40+55.73	LT	EXIST. DOMES	0.9	SY	
BU 60	40+55.74	40+73.56	LT	EXIST. SIDEWALK	9.2	SY	
BU 60	40+73.81	41+20.63	RT	EXIST. PAVEMENT	25.2	SY	
BU 60	40+78.24	40+88.96	RT	EXIST. EARTH	7.1	SY	
BU 60	40+83.61	41+20.90	RT	EXIST. SIDEWALK	25.6	SY	
BU 60	40+84.14	40+92.15	RT	EXIST. DOMES	2.1	SY	
BU 60	40+88.68	41+20.90	RT	EXIST. CURB	32.4	LF	
BU 60	40+97.98	41+04.12	RT	EXIST. DOMES	1.4	SY	
				TOTALS	NO DIRECT PAY		

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PAVED APPROACH

ROUTE	STA.	LOCATION	TYPE 5 AGGREGATE FOR BASE (4 IN. THICK)	PAVED APPROACH, 8 IN.	REMARKS
			SY	SY	
BU 60	22+03.93	LT	23.4	23.4	
BU 60	22+29.01	RT	30.3	30.3	
BU 60	22+88.38	RT	17.1	17.1	
BU 60	22+91.80	LT	25.4	25.4	
BU 60	23+38.03	RT	43.4	43.4	
BU 60	23+39.78	LT	43.8	43.8	
BU 60	24+08.77	LT	56.8	56.8	
BU 60	24+19.88	RT	67.2	67.2	
BU 60	24+73.14	LT	46.6	46.6	
BU 60	24+73.08	RT	54.1	54.1	
BU 60	25+25.73	RT	31.9	31.9	
BU 60	26+16.25	LT	48.7	48.7	
BU 60	26+55.54	LT	19.4	19.4	
BU 60	26+69.78	RT	54.0	54.0	
BU 60	27+79.03	RT	39.3	39.3	
BU 60	28+31.87	RT	31.0	31.0	
BU 60	28+38.50	LT	60.3	60.3	
BU 60	29+05.69	RT	30.8	30.8	
BU 60	29+14.99	LT	43.6	43.6	
BU 60	29+40.96	LT	23.9	23.9	
BU 60	29+98.63	LT	110.3	110.3	
BU 60	30+60.29	RT	80.3	80.3	
BU 60	32+04.98	LT	99.8	99.8	
BU 60	32+10.07	RT	43.4	43.4	
BU 60	32+86.65	RT	46.5	46.5	
BU 60	33+02.21	LT	24.2	24.2	
BU 60	34+31.74	LT	23.8	23.8	
BU 60	34+38.10	RT	50.4	50.4	
BU 60	35+20.85	LT	15.8	15.8	
BU 60	35+43.15	RT	42.8	42.8	
BU 60	36+69.72	LT	15.6	15.6	
BU 60	36+73.96	RT	59.8	59.8	
BU 60	37+41.59	RT	65.2	65.2	
BU 60	37+46.45	LT	45.0	45.0	
BU 60	39+00.00	LT	20.9	20.9	
BU 60	39+02.04	RT	59.2	59.2	
BU 60	39+25.34	LT	12.7	12.7	
BU 60	42+09.05	RT	31.6	31.6	
BU 60	42+09.83	LT	38.6	38.6	
		TOTAL	1676.9	1676.9	
		USE	1677	1677	

CONCRETE MEDIAN

ROUTE	STA.	STA.	LOCATION	CONCRETE MEDIAN 6 IN.	TYPE 1 AGG FOR BASE (4 IN. THICK)	REMARKS
				SY	SY	
BU 60	22+95.24	23+21.70	RT	2.2	2.2	
BU 60	24+90.95	25+01.02	LT	1.4	1.4	
BU 60	29+30.15	29+33.28	LT	1.0	1.0	
BU 60	31+05.69	31+19.05	RT	4.1	4.1	
BU 60	31+52.65	31+67.06	RT	2.2	2.2	
BU 60	37+86.19	38+96.27	LT	6.6	6.6	
BU 60	38+00.20	38+82.06	LT	1.8	1.8	
BU 60	38+02.23	38+08.69	RT	3.8	3.8	
BU 60	38+14.67	38+23.28	RT	12.5	12.5	
BU 60	38+14.77	38+23.49	RT	4.0	4.0	
BU 60	38+59.64	38+61.12	RT	0.5	0.5	
BU 60	38+66.56	38+89.82	RT	9.5	9.5	
BU 60	41+83.65	41+94.67	RT	2.7	2.7	
BU 60	42+18.68	42+31.44	RT	2.9	2.9	
BU 60	42+24.75	42+30.85	LT	0.8	0.8	
BU 60	0+35.75	0+42.46	RT	2.9	2.9	
COLLEGE ST	0+21.72	0+23.22	LT	0.5	0.5	
COLLEGE ST	0+21.72	0+37.63	LT	5.5	5.5	
COLLEGE ST	0+42.63	0+47.14	LT	0.8	0.8	
			TOTALS	65.7	65.7	
			USE	65.7	66	

SUMMARY OF QUANTITIES
NEOSHO
SHEET 5 OF 10

STATE OF MISSOURI
ROBERT B. GREEN
NUMBER PE-25339
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED SEALED AND DATED ELECTRONICALLY.

DATE PREPARED: 4/21/2025
ROUTE: VAR. | STATE: MO
DISTRICT: SW | SHEET NO.: 3
COUNTY: NEWTON
JOB NO.: J7S3506
CONTRACT ID.:
PROJECT NO.:
BRIDGE NO.:

DESCRIPTION | DATE

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

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

Bartlett & West
601 MONROE ST. SUITE 201 - JEFFERSON CITY, MO 65101
PHONE 573-634-3181
CERTIFICATE OF AUTHORITY NO. 000167 - ENGINEERING
WWW.BARTLETTWEST.COM

TRUNCATED DOMES, CURB RAMP, SIDEWALK, TYPE 1 AGGREGATE, ADA LINEAR GRADING, TURF TYPE TALL FESCUE SODDING, CURBS (TABLE 1 OF 2)

SHEET	STATION	STATION	LOCATION	LT RT	TRUNC. DOMES	CURB RAMP				SIDEWALK									4" TYPE 1 AGGR.	ADA LINEAR GRADING	SOD	S-CURB			REMARKS
										S.W. WIDTH	✳ PAY WIDTH	4" SDWLK.	4" CUT THRU	4" BUS STOP	4" PASS AREA	8" SDWLK.	8" MODIFD. SDWLK.	INTEGRAL CURB				LESS/EQ 6" (1"-6")	OVER 6" (6"-12")	MODIFIED (12"-30")	
					SF	LENGTH	WIDTH	TYPE	SY	LF	LF	SY	SY	SY	SY	SY	SY	✳ LF	SY	LF	SY	LF	LF	LF	
1	21+91.21	21+96.42	BUS 60	LT	0.0	9	6	1-B	3.1	6	6.5	0.6	0.0	0.0	0.0	0.0	0.0	5.0	4.0	19.3	6.5				
1	21+79.20	22+18.96	BUS 60	RT	0.0	9	6	1-B	5.7	6	6.5	21.1	0.0	0.0	0.0	0.0	0.0	5.0	27.1	53.8	12.3				
1	22+11.42	22+67.20	BUS 60	LT	0.0	9	6	1-B	5.7	6	6.5	31.8	0.0	0.0	0.0	0.0	0.0	5.0	37.8	69.8	14.9				
1	22+39.08	22+68.88	BUS 60	RT	0.0	9	6	1-B	5.7	6	6.5	14.5	0.0	0.0	0.0	0.0	0.0	5.0	20.5	43.9	10.6				
1	22+67.20	22+83.20	BUS 60	LT	0.0	9	6	1-B	7.0	6	6.5	0.0	0.0	0.0	0.0	0.0	0.0	5.0	7.3	30.0	8.3				
1	22+68.88	22+82.88	BUS 60	RT	0.0	9	6	1-B	5.7	6	6.5	0.0	0.0	0.0	0.0	0.0	0.0	5.0	6.0	28.0	8.0				
1	22+93.88	23+23.04	BUS 60	RT	0.0	30	4	1-C	0.0	4	5.0	0.0	22.6	0.0	0.0	0.0	0.0	53.0	22.6	64.2	14.0				
1	22+99.53	23+24.77	BUS 60	LT	0.0	25	6	1-B	0.0	6	7.0	0.0	20.8	0.0	0.0	0.0	0.0	42.0	23.2	55.3	12.5				
1	23+53.04	23+81.97	BUS 60	RT	0.0	9	6	1-B	5.7	6	6.5	13.9	0.0	0.0	0.0	0.0	0.0	5.0	19.9	43.0	10.5				
1	23+54.77	23+77.76	BUS 60	LT	0.0	34	6	1-B	3.7	6	7.0	0.0	6.7	0.0	0.0	0.0	0.0	60.0	13.8	62.0	13.6				
1	23+81.97	23+95.98	BUS 60	RT	0.0	9	6	1-B	5.7	6	6.5	0.0	0.0	0.0	0.0	0.0	0.0	5.0	6.0	28.1	8.0				
1	23+77.76	23+88.79	BUS 60	LT	20.0	30	6	1-B	3.7	6	7.0	0.0	5.4	0.0	0.0	0.0	0.0	48.0	11.8	46.1	11.0				
1	24+28.77	24+58.40	BUS 60	LT	20.0	30	6	1-B	0.0	6	7.0	0.0	23.4	0.0	0.0	0.0	0.0	48.0	26.1	64.7	14.1				
1	24+43.83	24+58.02	BUS 60	RT	20.0	14	4	1-B	0.0	4	5.0	0.0	7.0	0.0	0.0	0.0	0.0	17.0	7.0	33.2	8.8				
1	24+87.77	25+01.05	BUS 60	LT	10.0	13	5	1-C	6.8	5	5.5	0.0	0.0	0.0	0.0	0.0	0.0	13.0	6.8	31.3	8.5				
1	24+87.55	25+00.78	BUS 60	RT	20.0	12	4	1-B	6.9	4	4.5	3.4	0.0	0.0	0.0	0.0	0.0	6.0	10.3	30.3	8.3				
2	25+00.75	25+15.07	BUS 60	RT	10.0	14	5	2-C	8.7	5	5.5	0.0	0.0	0.0	0.0	0.0	0.0	5.0	8.7	33.4	8.9				
2	25+01.02	25+14.02	BUS 60	LT	10.0	13	6	2-C	9.0	6	7.0	0.0	0.0	0.0	0.0	0.0	0.0	21.0	10.2	31.0	8.5				
2	25+14.02	25+27.52	BUS 60	LT	0.0	8	6	1-B	5.3	6	6.5	4.3	0.0	0.0	0.0	0.0	0.0	8.0	10.0	26.5	7.7				
2	25+36.43	25+92.89	BUS 60	RT	0.0	14	6	1-B	8.7	6	6.5	31.6	0.0	0.0	0.0	0.0	0.0	10.0	40.9	75.5	15.9				
2	25+64.20	25+99.27	BUS 60	LT	0.0	35	6	1-B	0.0	6	7.0	0.0	28.1	0.0	0.0	0.0	0.0	62.0	31.6	75.1	15.8				
2	26+31.82	26+50.82	BUS 60	RT	0.0	9	6	1-B	5.2	6	6.5	7.6	0.0	0.0	0.0	0.0	0.0	13.0	13.5	33.0	8.8				
2	26+33.25	26+48.95	BUS 60	LT	0.0	16	6	1-B	0.0	6	7.0	0.0	11.7	0.0	0.0	0.0	0.0	25.0	13.1	36.7	9.4				
2	26+60.93	26+79.13	BUS 60	LT	0.0	7	6	1-B	4.8	6	6.5	6.8	0.0	0.0	0.0	0.0	0.0	3.0	11.8	30.3	8.3	48.8			
2	26+88.75	27+07.76	BUS 60	RT	0.0	9	6	1-B	5.2	6	6.5	6.7	0.0	0.0	0.0	0.0	0.0	5.0	12.2	33.1	8.8				
2	27+46.65	27+65.65	BUS 60	RT	0.0	9	5	1-B	4.9	5	5.5	6.4	0.0	0.0	0.0	0.0	0.0	5.0	11.3	33.0	8.8				
2	27+92.40	28+21.52	BUS 60	RT	0.0	29	6	1-B	0.0	6	6.5	0.0	20.2	0.0	0.0	0.0	0.0	21.0	21.4	63.2	13.8				
2	27+97.89	28+16.88	BUS 60	LT	0.0	7	6	1-B	5.7	6	7.0	8.0	0.0	0.0	0.0	0.0	0.0	10.0	14.3	31.0	8.5	101.7			
2	28+42.22	28+80.94	BUS 60	RT	0.0	9	6	1-B	5.4	6	6.5	3.9	0.0	0.0	0.0	0.0	0.0	5.0	9.6	52.8	12.1				
2	28+60.12	28+86.13	BUS 60	LT	0.0	7	6	1-B	5.4	6	7.0	11.7	0.0	0.0	0.0	0.0	0.0	10.0	17.7	38.1	9.6				
2	28+80.94	28+95.44	BUS 60	RT	0.0	7	6	1-B	5.8	6	6.5	0.0	0.0	0.0	0.0	0.0	0.0	5.0	6.1	26.5	7.7				
2	28+86.13	29+00.01	BUS 60	LT	0.0	7	6	1-B	5.3	6	7.0	0.0	0.0	0.0	0.0	0.0	0.0	10.0	5.9	25.9	7.6				
2	29+15.94	29+59.20	BUS 60	RT	0.0	9	6	1-B	5.4	6	6.5	22.6	0.0	0.0	0.0	0.0	0.0	5.0	28.3	57.3	12.8				
2	29+48.64	29+58.55	BUS 60	LT	0.0	10	6	1-B	0.0	6	6.5	0.0	7.0	0.0	0.0	0.0	0.0	10.0	7.6	25.0	7.5				
2	29+93.79	30+30.32	BUS 60	RT	0.0	7	6	1-B	5.2	6	7.0	15.9	0.0	0.0	0.0	0.0	0.0	10.0	21.7	48.6	11.4				
3	30+35.30	30+89.14	BUS 60	LT	0.0	7	6	1-B	5.7	6	6.5	30.0	0.0	0.0	0.0	0.0	0.0	3.0	35.9	65.9	14.3				
3	30+90.19	31+19.71	BUS 60	RT	10.0	32	6	2-A	20.7	6	7.0	0.0	0.0	0.0	0.0	0.0	0.0	46.0	23.3	66.6	14.4				
3	30+88.35	31+10.72	BUS 60	LT	20.0	18	6	1-B	13.5	6	6.5	10.0	0.0	0.0	0.0	0.0	0.0	12.0	24.2	45.4	10.9				
3	31+41.17	31+65.01	BUS 60	LT	10.0	31	5	2-A	17.0	5	6.0	0.0	0.0	0.0	0.0	0.0	0.0	58.0	17.0	59.9	13.3				
3	31+49.69	31+80.92	BUS 60	RT	10.0	18	5	1-C	9.3	5	5.5	12.8	0.0	0.0	0.0	0.0	0.0	12.0	22.1	54.3	12.3				
3	31+80.29	31+94.84	BUS 60	RT	0.0	7	6	1-B	5.7	6	7.0	4.5	0.0	0.0	0.0	0.0	0.0	10.0	10.8	26.6	7.7				
3	32+24.44	32+40.93	BUS 60	RT	0.0	7	6	1-B	5.7	6	7.0	7.8	0.0	0.0	0.0	0.0	0.0	10.0	14.1	28.5	8.0				
3	32+46.27	32+60.27	BUS 60	LT	0.0	7	5	1-B	4.7	5	6.0	3.9	0.0	0.0	0.0	0.0	0.0	10.0	8.6	26.0	7.6				
3	32+51.50	32+70.49	BUS 60	RT	0.0	7	6	1-B	5.7	6	7.0	7.8	0.0	0.0	0.0	0.0	0.0	10.0	14.1	31.0	8.5				
3	32+60.27	32+94.06	BUS 60	LT	0.0	7	5	1-B	6.3	5	6.0	0.0	0.0	0.0	0.0	0.0	0.0	10.0	6.3	45.8	10.9				
3	33+02.83	33+21.85	BUS 60	RT	0.0	7	6	1-B	5.5	6	7.0	7.6	0.0	0.0	0.0	0.0	0.0	10.0	13.7	31.1	8.5				
3	33+10.34	33+27.33	BUS 60	LT	0.0	7	6	1-B	7.0	6	6.5	3.4	0.0	0.0	0.0	0.0	0.0	3.0	10.6	29.0	8.1				
3	34+05.01	34+20.51	BUS 60	RT	0.0	7	6	1-B	5.7	6	7.0	5.5	0.0	0.0	0.0	0.0	0.0	10.0	11.8	27.5	7.9				
3	34+10.12	34+24.12	BUS 60	LT	0.0	7	5	1-B	4.7	5	5.5	3.2	0.0	0.0	0.0	0.0	0.0	3.0	7.9	26.0	7.6				
3	34+39.37	34+52.15	BUS 60	LT	0.0	7	5	1-B	4.7	5	5.5	2.5	0.0	0.0	0.0	0.0	0.0	3.0	7.2	24.8	7.4				
3	34+55.75	34+74.79	BUS 60	RT	0.0	7	6	1-B	4.5	6	7.0	6.5	0.0	0.0	0.0	0.0	0.0	10.0	11.6	31.1	8.5				
3	34+98.74	35+16.02	BUS 60	LT	0.0	7	5	1-B	4.4	5	5.5	4.7	0.0	0.0	0.0	0.0	0.0	3.0	9.1	29.3	8.2				
3	35+09.24	35+28.25	BUS 60	RT	0.0	9	5	1-B	4.9	5	7.0	7.4	0.0	0.0	0.0	0.0	0.0	14.0	13.1	33.1	8.8				
3	35+25.66	35+44.66	BUS 60	LT	0.0	7	6	1-B	4.7	6	7.0	3.2	0.0	0.0	0.0	0.0	0.0	10.0	8.5	31.0	8.5				
SUB TOTAL 1					160.0	--	--	--	295.8	--	--	331.6	152.9	0.0	0.0	0.0	0.0	✳	815.0	2191.9	543.2	150.5	0.0	0.0	
USE					160	--	--	--	295.8	--	--	484.5					0.0	✳	815	2192.0	544	151	0	0	

QTY IS INCLUDED IN 8" SW FOR PINNED-ON ISLANDS, IF NEED PVMNT REPAIR UNDERNEATH.
SOD IS ESTIMATED AT 2.25' FOR CURB RAMP AREAS AND AT 1.5' FOR LONG SIDEWALK RUNS.

✳ PAY WIDTH INCLUDES INTEGRAL CURB CONC. WIDTH/HEIGHT. SEE TYPICAL SHEET 1 FOR ALL PAY ITEM LIMITS.

SUMMARY OF QUANTITIES
NEOSHO
SHEET 6 OF 10

STATE OF MISSOURI
ROBERT B. GREEN
NUMBER PE-25339
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED SEALED AND DATED ELECTRONICALLY.

DATE PREPARED 4/3/2025
ROUTE VAR. | STATE MO
DISTRICT SW | SHEET NO. 3
COUNTY NEWTON
JOB NO. J7S3506
CONTRACT ID.
PROJECT NO.
BRIDGE NO.

DESCRIPTION | DATE

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

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

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CERTIFICATE OF AUTHORITY NO. 000167 - ENGINEERING
WWW.BARTLETTWEST.COM

TRUNCATED DOMES, CURB RAMP, SIDEWALK, TYPE 1 AGGREGATE, ADA LINEAR GRADING, TURF TYPE TALL FESCUE SODDING, CURBS (TABLE 2 OF 2)

SHEET	STATION	STATION	LOCATION	LT RT	TRUNC. DOMES	CURB RAMP				SIDEWALK									4" TYPE 1 AGGR.	ADA LINEAR GRADING	SOD	S-CURB			REMARKS
										S.W. WIDTH	✳ PAY WIDTH	4" SDWLK.	4" CUT THRU	4" BUS STOP	4" PASS AREA	8" SDWLK.	8" MODIFD. SDWLK.	INTEGRAL CURB				LESS/EQ 6" (1"-6")	OVER 6" (6"-12")	MODIFIED (12"-30")	
					SF	LENGTH	WIDTH	TYPE	SY	LF	LF	SY	SY	SY	SY	SY	SY	✳ LF	SY	LF	SY	LF	LF	LF	
4	35+58.11	35+72.15	BUS 60	RT	0.0	9	5	1-B	5.4	5	7.0	4.7	0.0	0.0	0.0	0.0	0.0	14.0	10.9	28.1	8.0				
4	36+34.73	36+53.76	BUS 60	RT	0.0	7	6	1-B	5.7	6	7.0	7.8	0.0	0.0	0.0	0.0	0.0	10.0	14.1	31.1	8.5				
4	36+47.75	36+65.75	BUS 60	LT	10.0	7	6	1-B	6.3	6	6.5	3.2	0.0	0.0	0.0	0.0	0.0	3.0	9.7	30.0	8.3				
4	36+74.68	36+91.68	BUS 60	LT	10.0	7	5	1-B	6.3	5	6.0	4.0	0.0	0.0	0.0	0.0	0.0	10.0	10.3	29.0	8.1				
4	36+94.30	37+19.40	BUS 60	RT	0.0	25	6	1-B	0.0	6	7.0	0.0	20.7	0.0	0.0	0.0	0.0	42.0	23.1	55.1	12.5				
4	37+24.48	37+31.48	BUS 60	LT	0.0	7	5	1-B	3.6	5	6.0	0.0	0.0	0.0	0.0	0.0	0.0	10.0	3.6	19.0	6.5				
4	37+61.47	37+89.67	BUS 60	LT	0.0	12	7	1-B	8.4	7	7.5	12.3	0.0	0.0	0.0	0.0	0.0	9.0	21.2	45.3	10.8				
4	37+63.88	37+88.77	BUS 60	RT	0.0	9	6	1-B	5.7	6	7.0	12.1	0.0	0.0	0.0	0.0	0.0	14.0	18.6	38.9	9.8				
4	37+86.83	39+00.08	BUS 60	LT	20.0	33	7	3-A	27.5	7	8.0	0.0	0.0	0.0	0.0	0.0	0.0	48.0	30.2	151.3	28.5				
4	37+88.73	38+01.73	BUS 60	RT	10.0	13	6	2-C	10.4	6	7.0	0.0	0.0	0.0	0.0	0.0	0.0	21.0	11.6	31.0	8.5				
4	38+01.73	38+14.22	BUS 60	RT	0.0	22	6	1-C	12.9	6	7.0	0.0	0.0	0.0	0.0	0.0	0.0	41.0	15.2	39.5	9.9				
4	38+04.22	38+23.98	BUS 60	RT	10.0	13	5	1-C	8.2	5	6.0	10.6	0.0	0.0	0.0	0.0	0.0	20.0	18.8	37.8	9.6				
4	0+21.72	0+28.72	COLLEGE ST.	RT	10.0	10	5	2-C	7.2	5	5.5	0.0	0.0	0.0	0.0	0.0	0.0	10.0	7.2	22.0	7.0				
4	0+23.72	0+37.70	COLLEGE ST.	RT	0.0	20	5	1-C	10.8	5	5.5	0.0	0.0	0.0	0.0	0.0	0.0	15.0	10.8	39.0	9.8				
4	0+37.70	0+47.69	COLLEGE ST.	RT	10.0	11	6	2-C	6.7	6	6.5	0.0	0.0	0.0	0.0	0.0	0.0	11.0	7.3	26.0	7.6				
4	38+59.64	38+73.09	BUS 60	RT	10.0	20	6	2-C	12.5	6	7.0	7.0	0.0	0.0	0.0	0.0	0.0	28.0	21.1	38.5	9.7				
4	38+72.22	38+89.86	BUS 60	RT	10.0	7	6	2-C	11.4	6	7.0	0.0	0.0	0.0	0.0	0.0	0.0	18.0	12.4	29.7	8.2				
4	39+15.26	39+20.39	BUS 60	LT	0.0	10	7	1-B	3.4	7	8.0	2.3	0.0	0.0	0.0	0.0	0.0	20.0	6.8	20.2	6.7				
4	39+29.82	39+61.40	BUS 60	RT	0.0	13	6	1-B	8.7	6	7.0	13.6	0.0	0.0	0.0	0.0	0.0	22.0	23.5	49.6	11.6				
4	39+30.16	39+48.19	BUS 60	LT	0.0	7	7	1-B	5.6	7	7.5	7.7	0.0	0.0	0.0	0.0	0.0	4.0	13.5	30.1	8.3				
5	41+71.96	41+94.70	BUS 60	LT	20.0	17	6	1-B	10.5	6	7.0	0.0	0.0	0.0	0.0	0.0	0.0	26.0	12.0	44.8	10.8				
5	41+78.64	41+95.43	BUS 60	RT	10.0	12	5	1-C	6.5	5	5.0	3.4	0.0	0.0	0.0	0.0	0.0	0.0	9.9	33.8	8.9				
5	42+17.93	42+31.52	BUS 60	RT	10.0	14	5	1-C	7.5	5	5.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.5	32.6	8.7				
5	42+21.50	42+35.85	BUS 60	LT	20.0	13	6	3-D	10.7	6	7.0	3.4	0.0	0.0	0.0	0.0	0.0	10.0	14.7	32.4	8.7				
5	42+35.77	42+48.85	BUS 60	LT	0.0	13	6	3-D	4.7	6	7.0	5.8	0.0	0.0	0.0	0.0	0.0	26.0	12.0	31.1	8.5				
5	42+36.41	42+49.51	BUS 60	RT	10.0	13	6	2-C	10.1	6	6.7	4.9	0.0	0.0	0.0	0.0	0.0	13.0	15.7	31.2	8.5				
6	67+53.65	67+74.65	BUS 60	LT	20.0	11	6	1-B	6.5	6	6.5	8.1	0.0	0.0	0.0	0.0	0.0	15.0	15.4	37.0	9.5				
6	70+76.42	70+91.43	BUS 60	LT	10.0	10	6	2-A	0.0	6	7.0	11.2	0.0	0.0	0.0	0.0	0.0	15.0	12.0	30.1	8.3				
6	72+12.50	72+32.52	BUS 60	LT	10.0	10	6	2-A	7.0	6	7.0	8.9	0.0	0.0	0.0	0.0	0.0	22.0	17.1	35.1	9.1				
7	0+35.32	0+54.73	NEOSHO BLVD	RT	20.0	38	5	1-C	0.0	5	5.0	0.0	23.0	0.0	0.0	0.0	0.0	0.0	23.0	62.5	13.7				
7	0+38.21	0+67.08	NEOSHO BLVD	LT	20.0	14	6	2-A	12.1	6	7.0	0.0	0.0	0.0	0.0	0.0	0.0	33.0	13.9	29.1	8.2				
8	23+03.14	23+09.24	NEOSHO BLVD	LT	20.0	6	6	1-C	3.8	6	7.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.8	17.1	6.1	27.0			
8	23+03.22	23+08.23	NEOSHO BLVD	RT	10.0	8	5	1-C	4.2	5	7.0	0.0	0.0	0.0	0.0	0.0	0.0	21.0	5.4	18.1	6.3				
9	39+90.83	40+11.33	NEOSHO BLVD	LT	10.0	6	6	2-A	3.7	6	6.5	15.9	0.0	0.0	0.0	0.0	0.0	45.0	22.1	31.5	8.5				
9	39+93.44	40+28.93	NEOSHO BLVD	RT	10.0	13	6	2-A	7.3	6	6.5	27.4	0.0	0.0	0.0	0.0	0.0	94.0	40.0	53.5	12.2				
9	40+05.25	40+12.48	NEOSHO BLVD	LT	10.0	11	6	2-C	4.2	6	7.0	0.0	0.0	0.0	0.0	0.0	0.0	16.0	5.1	23.3	7.2				
9	40+25.66	40+44.36	NEOSHO BLVD	RT	10.0	13	5	1-C	8.3	5	6.0	0.0	0.0	0.0	0.0	0.0	0.0	29.0	8.3	36.8	9.4				
9	40+53.14	40+73.97	NEOSHO BLVD	LT	10.0	14	5	1-C	8.4	5	5.5	5.6	0.0	0.0	0.0	0.0	0.0	15.0	14.0	39.9	9.9				
9	40+69.06	40+77.01	NEOSHO BLVD	LT	10.0	14	5	1-C	8.1	5	5.5	1.7	0.0	0.0	0.0	0.0	0.0	15.0	9.8	27.0	7.8				
9	40+76.30	40+88.84	NEOSHO BLVD	RT	10.0	21	6	2-A	3.9	6	7.0	0.0	0.0	0.0	0.0	0.0	0.0	38.0	6.0	38.6	9.7				
9	40+87.43	41+20.62	NEOSHO BLVD	RT	10.0	12	6	2-C	8.1	6	7.0	16.1	0.0	0.0	0.0	0.0	0.0	17.0	25.2	50.2	11.7				
			SUB TOTAL 2		360.0	--	--	--	302.3	--	--	197.7	43.7	0.0	0.0	0.0	0.0	✳	582.7	1526.9	389.6	27.0	0.0	0.0	
			USE		360	--	--	--	302.3	--	--			241.4			0.0	✳	583	1527	390	27	0	0	
			SUB TOTAL 1		160.0	--	--	--	295.8	--	--	331.6	152.9	0.0	0.0	0.0	0.0	✳	815.0	2191.9	543.2	150.5	0.0	0.0	
			USE		160	--	--	--	295.8	--	--			484.5			0.0	✳	815	2192	544	151	0	0	
			TOTAL		520.0	--	--	--	598.1	--	--	529.3	196.6	0.0	0.0	0.0	0.0	✳	1397.6	3718.8	932.8	177.5	0.0	0.0	
			USE		520.0	--	--	--	598.1	--	--			725.9		0.0	0.0	✳	1398	3719	933	178	0	0	

QTY IS INCLUDED IN 8" SW FOR PINNED-ON ISLANDS, IF NEED PVMNT REPAIR UNDERNEATH.
SOD IS ESTIMATED AT 2.25' FOR CURB RAMP AREAS AND AT 1.5' FOR LONG SIDEWALK RUNS.

✳ PAY WIDTH INCLUDES INTEGRAL CURB CONC. WIDTH/HEIGHT. SEE TYPICAL SHEET 1 FOR ALL PAY ITEM LIMITS.

HAND-RAILING

ROUTE	STA.	STA.	LOCATION	SIDEWALK HAND-RAILING WITHOUT BALUSTERS	REMARKS
				LF	
BU 60	26+69.71	27+10.22	LT	40.0	
BU 60	27+15.19	28+16.19	LT	100.0	
			TOTALS	140.0	
			USE	140	

SUMMARY OF QUANTITIES
NEOSHO
SHEET 7 OF 10

STATE OF MISSOURI
ROBERT B. GREEN
NUMBER PE-25339
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED 4/21/2025
ROUTE VAR. | STATE MO
DISTRICT SW | SHEET NO. 3
COUNTY NEWTON
JOB NO. J7S3506
CONTRACT ID.
PROJECT NO.
BRIDGE NO.

DESCRIPTION | DATE

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

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

Bartlett & West
601 MONROE ST. SUITE 201 - JEFFERSON CITY, MO 65101
PHONE 573-634-3181
CERTIFICATE OF AUTHORITY NO. 000167 - ENGINEERING
WWW.BARTLETTWEST.COM

CURB AND GUTTER

ROUTE	STA.	STA.	LOCATION	TYPE 5 AGGREGATE FOR BASE (4 IN. THICK)	TYPE B CURB AND GUTTER	REMARKS
				SY	LF	
BU 60	21+85.96	22+14.97	RT	36.3	109.0	
BU 60	21+86.28	21+92.41	LT	28.3	85.0	
BU 60	22+15.04	22+79.20	LT	21.3	64.0	
BU 60	22+43.09	23+19.06	RT	25.3	76.0	
BU 60	23+03.58	23+20.75	LT	6.0	18.0	
BU 60	23+57.06	23+91.98	RT	11.7	35.0	
BU 60	23+58.75	23+84.75	LT	8.7	26.0	
BU 60	24+32.75	24+50.64	LT	6.0	18.0	
BU 60	24+47.84	24+51.10	RT	1.3	4.0	
BU 60	24+95.20	25+11.12	RT	5.3	16.0	
BU 60	24+95.61	25+23.47	LT	9.3	28.0	
BU 60	25+40.48	25+92.89	RT	17.7	53.0	
BU 60	25+68.17	25+95.29	LT	9.3	28.0	
BU 60	26+33.84	26+46.84	RT	4.3	13.0	
BU 60	26+37.28	26+45.60	LT	3.0	9.0	
BU 60	26+65.33	26+73.33	LT	2.7	8.0	
BU 60	26+92.77	27+05.77	RT	4.3	13.0	
BU 60	27+48.66	27+61.66	RT	4.3	13.0	
BU 60	27+96.40	28+17.52	RT	7.3	22.0	
BU 60	28+03.85	28+12.86	LT	3.0	9.0	
BU 60	28+46.22	28+90.94	RT	15.0	45.0	
BU 60	28+64.10	28+96.15	LT	10.7	32.0	
BU 60	29+19.94	29+59.18	RT	13.3	40.0	
BU 60	29+94.00	30+23.11	RT	10.0	30.0	
BU 60	30+39.96	31+13.22	LT	26.7	80.0	
BU 60	30+94.44	31+05.77	RT	4.0	12.0	
BU 60	31+38.63	31+61.13	LT	11.3	34.0	
BU 60	31+47.11	31+00.08	RT	16.3	49.0	
BU 60	32+27.86	32+33.97	RT	2.7	8.0	
BU 60	32+50.25	32+90.04	LT	13.3	40.0	
BU 60	32+58.52	32+66.52	RT	2.7	8.0	
BU 60	33+06.86	33+14.86	RT	2.7	8.0	
BU 60	33+14.32	33+22.32	LT	2.7	8.0	
BU 60	34+08.57	34+16.57	RT	2.7	8.0	
BU 60	34+12.12	34+20.12	LT	2.7	8.0	
BU 60	34+43.37	34+52.37	LT	3.0	9.0	
BU 60	34+59.80	34+67.80	RT	2.7	8.0	
BU 60	35+03.99	35+121.00	LT	2.7	8.0	
BU 60	35+14.28	35+24.28	RT	3.3	10.0	
BU 60	35+29.64	35+37.64	LT	2.7	8.0	
BU 60	35+62.16	35+72.16	RT	3.3	10.0	
BU 60	36+36.85	36+49.84	RT	4.3	13.0	
BU 60	36+52.74	36+60.74	LT	2.7	8.0	
BU 60	36+78.67	36+86.67	LT	2.7	8.0	
BU 60	36+98.42	37+15.50	RT	6.0	18.0	
BU 60	37+24.53	37+27.52	LT	1.0	3.0	
BU 60	37+65.23	39+16.85	LT	30.0	90.0	
BU 60	37+67.98	38+26.49	RT	25.3	76.0	
COLLEGE ST.	0+19.22	0+43.65	LT	13.7	41.0	
BU 60	38+57.14	38+88.18	RT	14.7	44.0	
BU 60	39+16.18	39+30.10	RT	4.7	14.0	
BU 60	39+33.11	39+42.15	LT	3.0	9.0	
BU 60	41+78.04	41+87.04	LT	3.0	9.0	
BU 60	41+78.61	41+90.29	RT	4.0	12.0	
BU 60	42+22.83	42+49.39	RT	9.0	27.0	
BU 60	42+29.45	42+48.88	LT	6.7	20.0	
BU 60	67+51.65	67+69.66	LT	7.3	22.0	
BU 60	70+76.43	70+91.43	LT	5.0	15.0	
BU 60	72+17.52	72+33.02	LT	5.0	15.0	
BU 60	39+92.90	40+48.44	RT	24.3	73.0	W SOUTH ST
BU 60	40+73.81	41+20.63	RT	22.7	68.0	W SOUTH ST
			TOTAL	565.0	1695.0	
			USE	565	1695	

TEMPORARY EROSION AND SEDIMENT CONTROL DEVICES

ROUTE	STA.	LOCATION	SILT FENCE	ROCK DITCH CHECK	CURB INLET CHECK	SEDIMENT REMOVAL	REMARKS
			LF	LF	EA	CY	
BU 60	21+67.44	RT			1	1.0	USE AS DIRECTED BY ENGINEER
BU 60	21+67.59	LT			1	1.0	USE AS DIRECTED BY ENGINEER
BU 60	67+62.16	LT	20			0.2	USE AS DIRECTED BY ENGINEER
BU 60	70+83.98	LT	15			0.2	USE AS DIRECTED BY ENGINEER
BU 60	71+45.13	LT			1	1.0	USE AS DIRECTED BY ENGINEER
BU 60	72+25.01	LT	20			0.2	USE AS DIRECTED BY ENGINEER
BU 60	+70.82	LT			1	1.0	USE AS DIRECTED BY ENGINEER
BU 60	+52.20	LT	20			0.2	USE AS DIRECTED BY ENGINEER
BU 60	22+96.10	LT		5		1.0	USE AS DIRECTED BY ENGINEER
BU 60	22+96.86	RT		5		1.0	USE AS DIRECTED BY ENGINEER
BU 60	23+16.44	LT		5		1.0	USE AS DIRECTED BY ENGINEER
BU 60	40+19.57	RT	65			0.7	USE AS DIRECTED BY ENGINEER
BU 60	39+97.55	LT		5		1.0	USE AS DIRECTED BY ENGINEER
BU 60	40+01.16	LT	35			0.4	USE AS DIRECTED BY ENGINEER
BU 60	40+90.85	RT	55			0.6	USE AS DIRECTED BY ENGINEER
BU 60	40+97.88	RT		5		1.0	USE AS DIRECTED BY ENGINEER
		TOTAL	230	25	4	11.5	
		USE	230	25	4	12	

PER EPG 806.6: QUANTITIES FOR SEDIMENT REMOVAL ARE ESTIMATED USING 1 CY PER DITCH CHECK, 1 CY PER 100 LINEAR FEET OF SILT FENCE, AND 1 CY PER INLET CHECK

PAVEMENT MARKING (PERMANENT)

ROUTE	STA.	LOCATION	DESCRIPTION OF LOCATION	PREFORMED THERMOPLASTIC PAVEMENT 30 IN. WHITE MIDBLOCK	PAVEMENT MARKING REMOVAL	PREFORMED THERMOPLASTIC STOP BAR 24 IN. WHITE	REMARKS
				(EA)	(LF)	(LF)	
BU 60	25+03.40	RT/LT	US 60 / LINCOLN ST	7.0			
BU 60	38+42.41	RT/LT	W COLER ST / N COLLEGE ST	28.0	60.0	103.0	
BU 60	42+33.63	RT/LT	US 60 / ADAMS ST	5.0			
BU 60	0+46.6	LT	NEOSHO BLVD	11.0	12.0	12.0	
BU 60	23+06.02	RT/LT	SCHOOL CROSSING	13.0			
BU 60	40+40.45	RT/LT	US 60 / SOUTH ST	36.0	23.0	32.0	
			TOTAL	100.0	95.0	147.0	
			USE	100	95	147	

DRAINAGE STRUCTURES, PIPES, AND END SECTIONS

RTE	STA	OFFSET	GROUP C PIPE 18 IN.	GROUP C 18 IN. FLARED END SECTIONS	REMARKS
			LF	EA	
BU 60	23+06.35	45.48	20	2	NO DIRECT PAYMENT FOR EXCAVATION AND BACKFILL
		TOTALS	20	2	

SUMMARY OF QUANTITIES
NEOSHO
SHEET 8 OF 10

STATE OF MISSOURI
ROBERT B. GREEN
NUMBER PE-25339
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED SEALED AND DATED ELECTRONICALLY.

DATE PREPARED 4/21/2025
ROUTE VAR. | STATE MO
DISTRICT SW | SHEET NO. 3
COUNTY NEWTON
JOB NO. J7S3506
CONTRACT ID.
PROJECT NO.
BRIDGE NO.

DESCRIPTION | DATE

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

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

Bartlett & West
601 MONROE ST. SUITE 201 - JEFFERSON CITY, MO 65101
PHONE 573-634-3181
CERTIFICATE OF AUTHORITY NO. 000167 - ENGINEERING
WWW.BARTLETTWEST.COM

TRUNCATED DOMES, CURB RAMP, SIDEWALK, TYPE 1 AGGREGATE, ADA LINEAR GRADING, TURF TYPE TALL FESCUE SODDING, CURBS

SHEET	STATION	STATION	LOCATION	LT RT	TRUNC. DOMES	CURB RAMP				SIDEWALK								4" TYPE 1 AGGR.	ADA LINEAR GRADING	SOD	S-CURB			REMARKS
										S.W. WIDTH	✳ PAY WIDTH	4" SDWLK.	4" CUT THRU	4" BUS STOP	4" PASS AREA	8" SDWLK.	8" MODIFD. SDWLK.	INTEGRAL CURB				LESS/EQ 6" (1"–6")	OVER 6" (6"–12")	MODIFIED (12"–30")	
					SF	LENGTH	WIDTH	TYPE	SY	LF	LF	SY	SY	SY	SY	SY	SY	✳ LF	SY	LF	SY	LF	LF	LF	
1	250+43.12	251+31.96	HWY 37	RT	0.0	10	5	1-C	6.0	5	5	43.2							49.2	99.0	19.8				
1	251+24.46	251+89.11	HWY 37	LT	0.0	9	5	1-C	5.1	5	5	13.7							18.8	45.8	10.9				
1	252+67.26	253+45.59	HWY 37	RT	0.0	8	5	1-C	4.5	5	5	39.1							43.6	101.0	20.1				
				TOTAL	0.0	--	--	--	15.6	--	--	96.0	0.0	0.0	0.0	0.0	0.0	✳	111.6	245.8	50.8	0.0	0.0	0.0	
				USE	0	--	--	--	15.6	--	--	96.0				0.0		✳	112	246	51	0	0	0	

QTY IS INCLUDED IN 8" SW FOR PINNED-ON ISLANDS, IF NEED PVMNT REPAIR UNDERNEATH. ✳ PAY WIDTH INCLUDES INTEGRAL CURB CONC. WIDTH/HEIGHT. SEE TYPICAL SHEET 1 FOR ALL PAY ITEM LIMITS.
SOD IS ESTIMATED AT 2.25' FOR CURB RAMP AREAS AND AT 1.5' FOR LONG SIDEWALK RUNS.

REMOVAL OF IMPROVEMENTS

ROUTE	STA.	STA.	LOCATION	DESCRIPTION	AMOUNT	UNIT	REMARKS
37	250+43.53	251+31.20	RT	EXIST. EARTH	49.2	SY	
37	251+24.40	251+46.23	LT	EXIST. EARTH	6.6	SY	
37	251+33.80	251+46.25	LT	EXIST. SIDEWALK	6.8	SY	5' SAWCUT
37	251+75.52	251+89.11	LT	EXIST. SIDEWALK	8.1	SY	5' SAWCUT
37	252+67.26	253+45.59	RT	EXIST. SIDEWALK	43.5	SY	5' SAWCUT
				TOTALS	NO DIRECT PAY		

NOTE: REMOVALS OF IMPROVEMENTS TABLES ARE FOR INFORMATION ONLY. QUANTITIES ARE PAID FOR UNDER LINEAR GRADING CLASS 1 FOR ADA FACILITIES

PAVED APPROACH

ROUTE	STA.	LOCATION	TYPE 5 AGGREGATE FOR BASE (4 IN. THICK)	PAVED APPROACH, 8 IN.	REMARKS
			SY	SY	
37	250+41.16	RT	26.8	26.8	
37	251+17.86	LT	35.4	35.4	
37	253+56.94	RT	65.0	65.0	
		TOTAL	127.2	127.2	
		USE	127	127.2	

DRAINAGE STRUCTURES, PIPES, AND END SECTIONS

RTE	DRAINAGE ID	STA	OFFSET	GROUP C PIPE 15 IN.	CLASS 3 EXC.	REMARKS
				(LF)	CY	
37	P1	253+55.96	25	58	11	
			TOTALS	58	11	

TEMPORARY EROSION AND SEDIMENT CONTROL DEVICES

ROUTE	STA.	LOCATION	SILT FENCE	ROCK DITCH CHECK	SEDIMENT REMOVAL	REMARKS
			LF	LF	CY	
37	250+31.21	RT		3	1	USE AS DIRECTED BY ENGINEER
37	250+51.56	RT		3	1	USE AS DIRECTED BY ENGINEER
37	250+85.70	RT	180		1.8	USE AS DIRECTED BY ENGINEER
37	251+06.43	LT		3	1	USE AS DIRECTED BY ENGINEER
37	251+12.28	RT		3	1	USE AS DIRECTED BY ENGINEER
37	251+30.57	LT		3	1	USE AS DIRECTED BY ENGINEER
37	251+54.69	LT	65		0.7	USE AS DIRECTED BY ENGINEER
37	251+55.36	LT		3	1	USE AS DIRECTED BY ENGINEER
37	251+88.47	RT		3	1	USE AS DIRECTED BY ENGINEER
37	251+88.92	LT		3	1	USE AS DIRECTED BY ENGINEER
37	252+72.88	RT		3	1	USE AS DIRECTED BY ENGINEER
37	253+08.46	RT		3	1	USE AS DIRECTED BY ENGINEER
37	253+08.53	RT	120		1.2	USE AS DIRECTED BY ENGINEER
		TOTAL	365	30	13.7	
		USE	365	30	14	

PER EPG 806.6: QUANTITIES FOR SEDIMENT REMOVAL ARE ESTIMATED USING 1 CY PER DITCH CHECK, 1 CY PER 100 LINEAR FEET OF SILT FENCE, AND 1 CY PER INLET CHECK

SUMMARY OF QUANTITIES
WENTWORTH
SHEET 9 OF 10

STATE OF MISSOURI
ROBERT B. GREEN
NUMBER PE-25339
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED 4/21/2025
ROUTE VAR. | STATE MO
DISTRICT SW | SHEET NO. 3
COUNTY NEWTON
JOB NO. J7S3506
CONTRACT ID.
PROJECT NO.
BRIDGE NO.

DESCRIPTION | DATE

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

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

Bartlett & West
601 MONROE ST. SUITE 201 - JEFFERSON CITY, MO 65101
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CERTIFICATE OF AUTHORITY NO. 000167 - ENGINEERING
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SIGN	SIZE IN.	AREA SQ.FT.	QTY EACH	TOTAL AREA SQ.FT.	QTY RELOC EACH	TOTAL RELOC SQ.FT.	SIGN NUM.	DESCRIPTION
WARNING SIGNS								
WO1-1L	48X48	16.00						TURN (SYMBOL LEFT)
WO1-1R	48X48	16.00						TURN (SYMBOL RIGHT)
WO1-2L	48X48	16.00						CURVE (SYMBOL LEFT)
WO1-2R	48X48	16.00						CURVE (SYMBOL RIGHT)
WO1-3L	48X48	16.00						REVERSE TURN (SYMBOL LEFT)
WO1-3R	48X48	16.00						REVERSE TURN (SYMBOL RIGHT)
WO1-4L	48X48	16.00						REVERSE CURVE (SYMBOL LEFT)
WO1-4R	48X48	16.00						REVERSE CURVE (SYMBOL RIGHT)
WO1-4bL	48X48	16.00						DOUBLE ARROW REVERSE CURVE (SYMBOL LEFT)
WO1-4bR	48X48	16.00						DOUBLE ARROW REVERSE CURVE (SYMBOL RIGHT)
WO1-4cL	48X48	16.00						TRIPLE ARROW REVERSE CURVE (SYMBOL LEFT)
WO1-4cR	48X48	16.00						TRIPLE ARROW REVERSE CURVE (SYMBOL RIGHT)
WO1-6	60X30	12.50						HORIZONTAL ARROW (SYMBOL)
WO1-6a	72X36	18.00						HORIZ. ARROW (SYMBOL ON PERMANENT BARRICADE)
WO1-7	60X30	12.50						DOUBLE HEAD HORIZONTAL ARROW (SYMBOL)
WO1-7a	72X36	18.00						DOUBLE HEAD HORIZ. ARROW (SYMBOL ON PERM. BARR.)
WO1-8	18X24	3.00						CHEVRON (SYMBOL)
WO1-8a	30X36	7.50						CHEVRON (SYMBOL FOR DIVIDED HIGHWAYS)
WO3-1	48X48	16.00						STOP AHEAD (SYMBOL)
WO3-2	48X48	16.00						YIELD AHEAD (SYMBOL)
WO3-3	48X48	16.00						SIGNAL AHEAD (SYMBOL)
WO3-4	48X48	16.00						BE PREPARED TO STOP
WO3-5	48X48	16.00	8	128			3	SPEED LIMIT AHEAD
WO4-1L	48X48	16.00						MERGE (SYMBOL FROM LEFT)
WO4-1R	48X48	16.00						MERGE (SYMBOL FROM RIGHT)
WO4-1aL	48X48	16.00						MERGE (LEFT)
WO4-1aR	48X48	16.00						MERGE (RIGHT)
WO5-1	48X48	16.00						ROAD/BRIDGE/RAMP NARROWS
WO5-3	48X48	16.00						ONE LANE BRIDGE
WO5-5	48X48	16.00						NARROW LANES
WO6-1	48X48	16.00						DIVIDED HIGHWAY (SYMBOL)
WO6-2	48X48	16.00						DIVIDED HIGHWAY END (SYMBOL)
WO6-3	48X48	16.00						TWO WAY TRAFFIC (SYMBOL)
WO7-3a	30X24	5.00						NEXT XX MILES (PLAQUE)
WO8-1	48X48	16.00						BUMP
WO8-2	48X48	16.00						DIP
WO8-3	48X48	16.00						PAVEMENT ENDS
WO8-4	48X48	16.00						SOFT SHOULDER
WO8-5	48X48	16.00						SLIPPERY WHEN WET (SYMBOL)
WO8-6	48X48	16.00						TRUCK CROSSING
WO8-6c	48X48	16.00						TRUCK ENTRANCE
WO8-7	36X36	9.00						LOOSE GRAVEL
WO8-7a	36X36	9.00						FRESH OIL / LOOSE GRAVEL
WO8-9	48X48	16.00						LOW SHOULDER
WO8-11	48X48	16.00						UNEVEN LANES
WO8-12	48X48	16.00						NO CENTER LINE
WO8-15	48X48	16.00						GROOVED PAVEMENT
WO8-15P	30X24	5.00						MOTORCYCLE (PLAQUE)
WO8-17L	48X48	16.00						SHOULDER DROP-OFF (SYMBOL LEFT)
WO8-17R	48X48	16.00						SHOULDER DROP-OFF (SYMBOL RIGHT)
WO8-17P	30X24	5.00						SHOULDER DROP-OFF (PLAQUE)
W10-1	42RND.	9.62						RAILROAD CROSSING
WO12-1	24X24	4.00						DOUBLE DOWN ARROW (SYMBOL)
WO12-2	48X48	16.00						LOW CLEARANCE (SYMBOL)
WO12-2x	24X18	3.00						LOW CLEARANCE (PLAQUE)
WO12-2a	84X24	14.00						OVERHEAD LOW CLEARANCE (FEET AND INCHES)
WO12-4	120X60	50.00						LOW CLEARANCE XX FT XX IN XX MILES AHEAD
WO12-5	120X60	50.00						WIDTH RESTRICTION XX FT XX IN XX MILES AHEAD
WO13-1	30X30	6.25						ADVISORY SPEED (PLAQUE)
WO16-2	30X24	5.00						XXX FEET (PLAQUE)
WO16-3	30X24	5.00						X MILE (PLAQUE)
WO20-1	48X48	16.00	10	160			2-2A	ROAD/BRIDGE/RAMP WORK AHEAD
WO20-2	48X48	16.00						DETOUR AHEAD
WO20-3	48X48	16.00	2	32			20	ROAD CLOSED AHEAD
WO20-4	48X48	16.00	8	128			7	ONE LANE ROAD AHEAD
WO20-5	48X48	16.00						RIGHT/CENTER/LEFT LANE CLOSED AHEAD
WO20-5a	48X48	16.00						2 RIGHT/CENTER/LEFT LANES CLOSED AHEAD
WO20-6a	48X48	16.00						RIGHT/CENTER/LEFT LANE CLOSED
WO20-7a	48X48	16.00	10	160			8	FLAGGER (SYMBOL)
WO21-2	36X36	9.00						FRESH OIL
WO21-5	48X48	16.00						SHOULDER WORK / SHOULDER WORK AHEAD
WO22-1	48X48	16.00						BLASTING ZONE AHEAD
WO22-2	42X36	10.50						TURN OFF 2-WAY RADIO AND PHONE
WO22-3	42X36	10.50						END BLASTING ZONE
GO22-1	21X15	2.19						WET PAINT (ARROW PIVOTS)

SIGN	SIZE IN.	AREA SQ.FT.	QTY EACH	TOTAL SQ.FT.	QTY RELOC EACH	TOTAL RELOC SQ.FT.	SIGN NUM.	DESCRIPTION
GUIDE SIGNS								
E05-1	36X48	12.00						GORE EXIT
E05-2	48X36	12.00						EXIT OPEN
E05-2a	48X36	12.00						EXIT CLOSED
GO20-1	60X24	10.00						ROAD WORK NEXT XX MILES
GO20-2	48X24	8.00						END ROAD WORK
GO20-4	36X18	4.50						PILOT CAR FOLLOW ME
GO20-4a	42X30	8.75						PILOT CAR IN USE WAIT & FOLLOW
GO20-4a	18X12	1.50						PILOT CAR IN USE WAIT & FOLLOW
GO20-5aP	36X24	6.00	4	24			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	10	120			4-25	SPEED LIMIT XX
R3-1	48X48	16.00						NO RIGHT TURN (SYMBOL)
R3-2	48X48	16.00						NO LEFT TURN (SYMBOL)
R3-3	36X36	9.00						NO TURNS
R3-4	48X48	16.00						NO U-TURN (SYMBOL)
R3-7L	30X30	6.25						LEFT LANE MUST TURN LEFT
R3-7R	30X30	6.25						RIGHT LANE MUST TURN RIGHT
R4-1	36X48	12.00						DO NOT PASS
R4-2	36X48	12.00						PASS WITH CARE
R4-7a	36X48	12.00						KEEP RIGHT (HORIZONTAL ARROW)
R4-8a	36X48	12.00						KEEP LEFT (HORIZONTAL ARROW)
R5-1	30X30	6.25						DO NOT ENTER
R5-1a	36X24	6.00						WRONG WAY
R6-1L	54X18	6.75						ONE WAY ARROW (LEFT)
R6-1R	54X18	6.75						ONE WAY ARROW (RIGHT)
R6-2L	24X30	5.00						ONE WAY (LEFT)
R6-2R	24X30	5.00						ONE WAY (RIGHT)
R9-9	24X12	2.00	16	32			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	2	20			29	ROAD CLOSED
R11-3a	60X30	12.50						ROAD CLOSED XX MILES AHEAD LOCAL TRAFFIC ONLY
R11-4	60X30	12.50	2	25			30	ROAD CLOSED TO THRU TRAFFIC
CONST-3A	60X48	20.00						FINE SIGN
CONST-3X	56X12	4.67						SPEEDING/PASSING (PLATE)
MISCELLANEOUS SIGNS								
CONST-5	48X36	12.00						POINT OF PRESENCE
CONST-5	96X48	32.00						POINT OF PRESENCE
CONST-8	48X36	12.00	4	48			31	WORK ZONE NO PHONE ZONE

616-10.05 CONSTRUCTION SIGNS	TOTAL
	877

616-10.10 RELOCATED SIGNS	TOTAL
	0

ITEM NUMBER	TOTAL QTY	EFFECTIVE: 07-01-2024 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)
6123001		TRUCK MOUNTED ATTENUATOR (TMA)
6161008	8	ADVANCED WARNING RAIL SYSTEM
6161012		BUOYS (BOATS KEEP OUT)
6161013		BUOYS (NO WAKE)
6161014		SPECIAL SIGN ASSEMBLY (BOATS KEEP OUT)
6161025	240	CHANNELIZER (TRIM LINE)
6161030	16	TYPE III MOVEABLE BARRICADE
6161033	10	DIRECTION INDICATOR BARRICADE
6161040	6	FLASHING ARROW PANEL
6161047		TYPE III 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	4	CHANGEABLE MESSAGE SIGN WITH COMM. INTERFACE- CONTRACTOR FURNISHED/RETAINED
6169902	24	ADA COMPLIANT MOVEABLE BARRICADES
6162000A		WORK ZONE TRAFFIC SIGNAL SYSTEM
6162002		TEMPORARY LONG-TERM RUMBLE STRIPS
6173600D		TEMPORARY TRAFFIC BARRIER CONTRACTOR FURNISHED/RETAINED
6173602B		TEMPORARY TRAFFIC BARRIER CONTRACTOR FURNISHED/COMMISSION RETAINED
6174000A		TEMP. TRAFFIC BARRIER HEIGHT TRANSITION
6175010A		RELOCATING TEMPORARY TRAFFIC BARRIER
6176000B		TEMPORARY TRAFFIC BARRIER COMMISSION FURNISHED/RETAINED
6177000B		TEMP. TRAFFIC BARRIER HEIGHT TRANSITION COMMISSION FURNISHED/RETAINED
6208064A		TEMPORARY RAISED PAVEMENT MARKER
9029400		TEMPORARY TRAFFIC SIGNALS
9029401		TEMPORARY TRAFFIC SIGNALS AND LIGHTING

SUMMARY OF QUANTITIES
SHEET 10 OF 10

STATE OF MISSOURI
ROBERT B. GREEN
NUMBER PE-25339
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED: 4/21/2025
ROUTE: VAR. | STATE: MO
DISTRICT: SW | SHEET NO.: 3
COUNTY: NEWTON
JOB NO.: J7S3506
CONTRACT ID.:
PROJECT NO.:
BRIDGE NO.:

DESCRIPTION | DATE

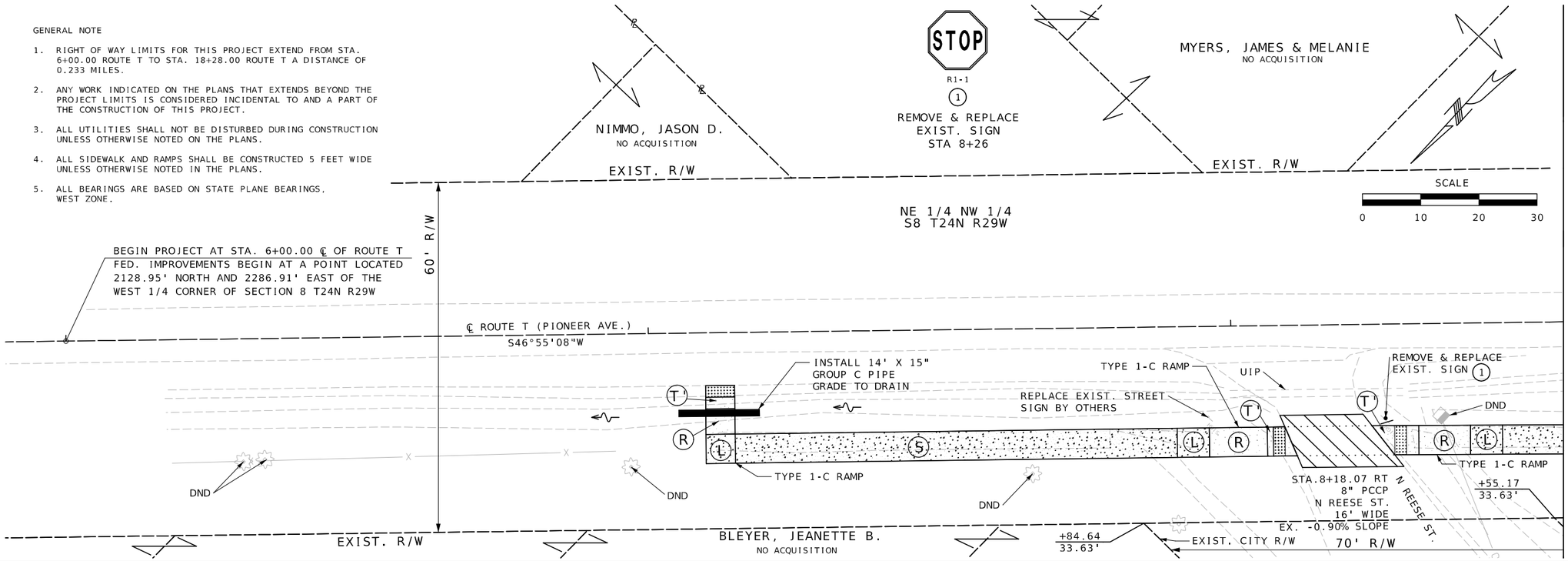
IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

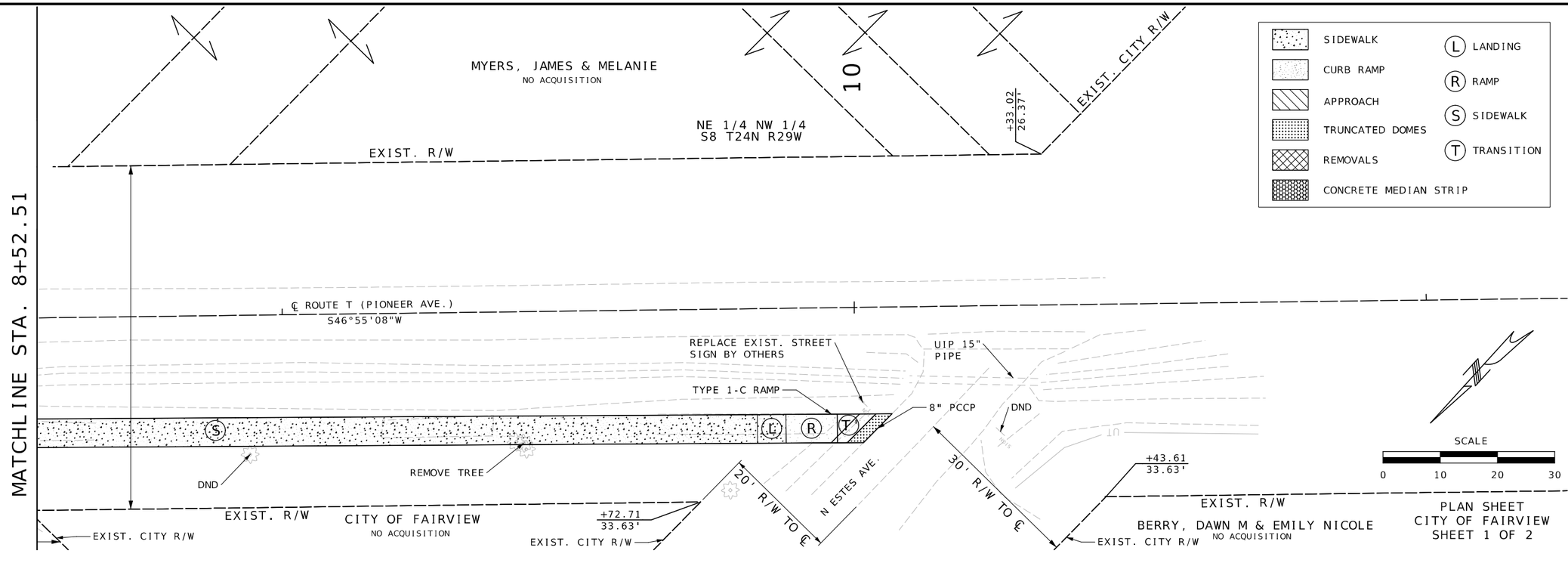
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

Bartlett & West
601 MONROE ST. SUITE 201 - JEFFERSON CITY, MO 65101
PHONE 573-634-3161
CERTIFICATE OF AUTHORITY NO. 000167 - ENGINEERING
WWW.BARTLETTWEST.COM

GENERAL NOTE

1. RIGHT OF WAY LIMITS FOR THIS PROJECT EXTEND FROM STA. 6+00.00 ROUTE T TO STA. 18+28.00 ROUTE T A DISTANCE OF 0.233 MILES.
2. ANY WORK INDICATED ON THE PLANS THAT EXTENDS BEYOND THE PROJECT LIMITS IS CONSIDERED INCIDENTAL TO AND A PART OF THE CONSTRUCTION OF THIS PROJECT.
3. ALL UTILITIES SHALL NOT BE DISTURBED DURING CONSTRUCTION UNLESS OTHERWISE NOTED ON THE PLANS.
4. ALL SIDEWALK AND RAMPS SHALL BE CONSTRUCTED 5 FEET WIDE UNLESS OTHERWISE NOTED IN THE PLANS.
5. ALL BEARINGS ARE BASED ON STATE PLANE BEARINGS, WEST ZONE.





STATE OF MISSOURI
ROBERT B. GREEN
NUMBER PE-25339
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED
3/3/2025

ROUTE	STATE
VAR.	MO
DISTRICT	SHEET NO.
SW	4

COUNTY
NEWTON

JOB NO.
J7S3506

CONTRACT ID.

PROJECT NO.

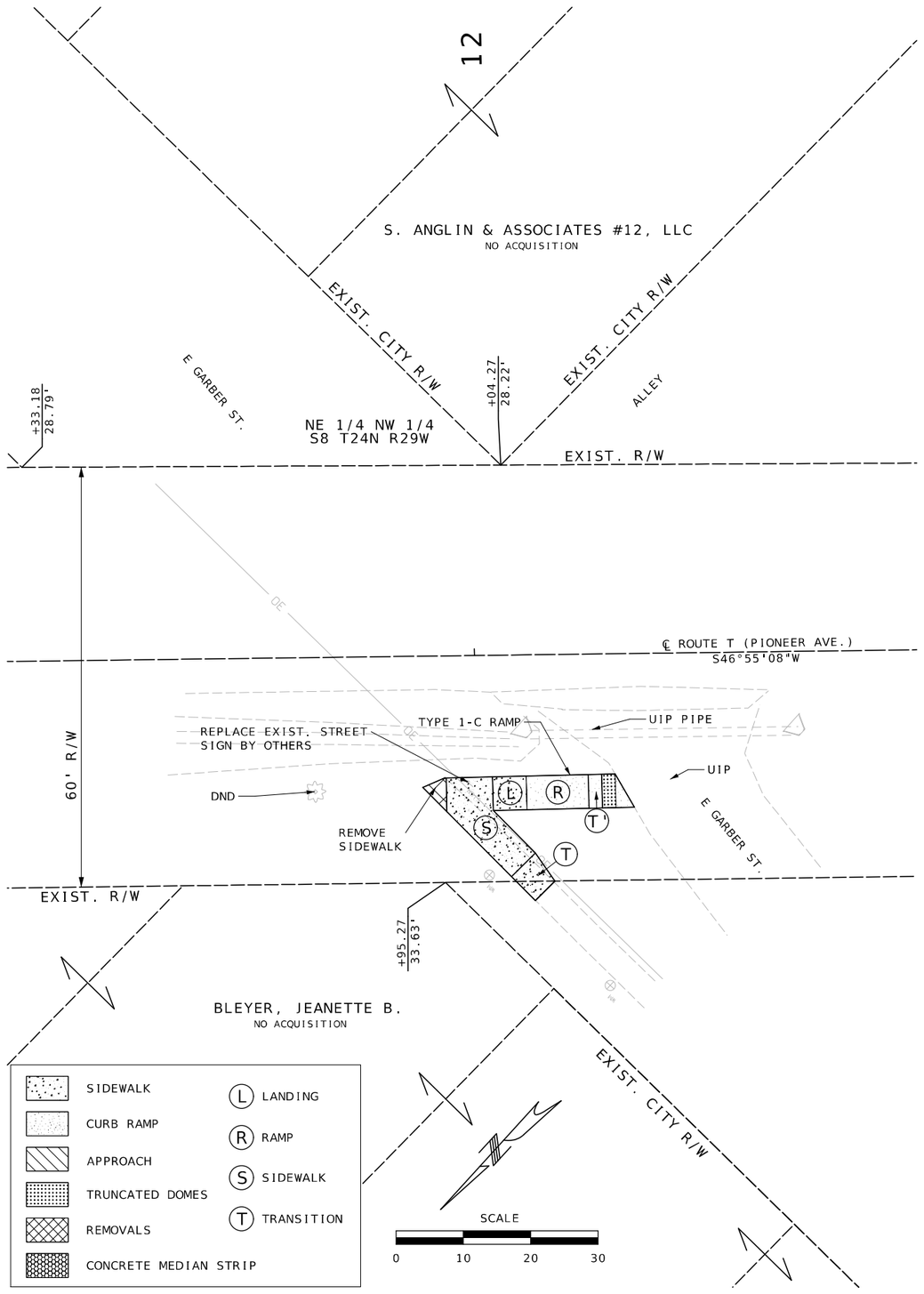
BRIDGE NO.

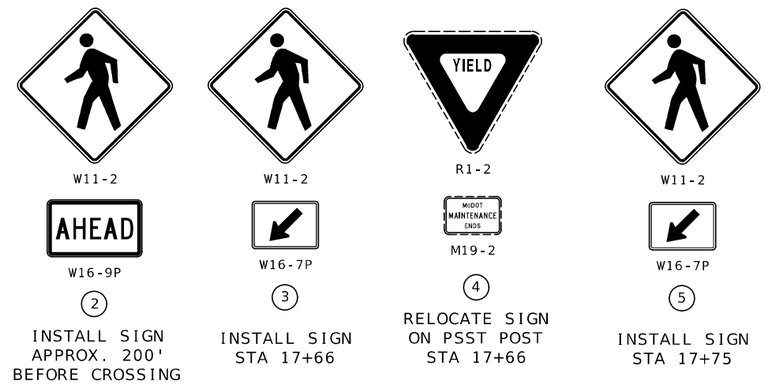
DATE	DESCRIPTION

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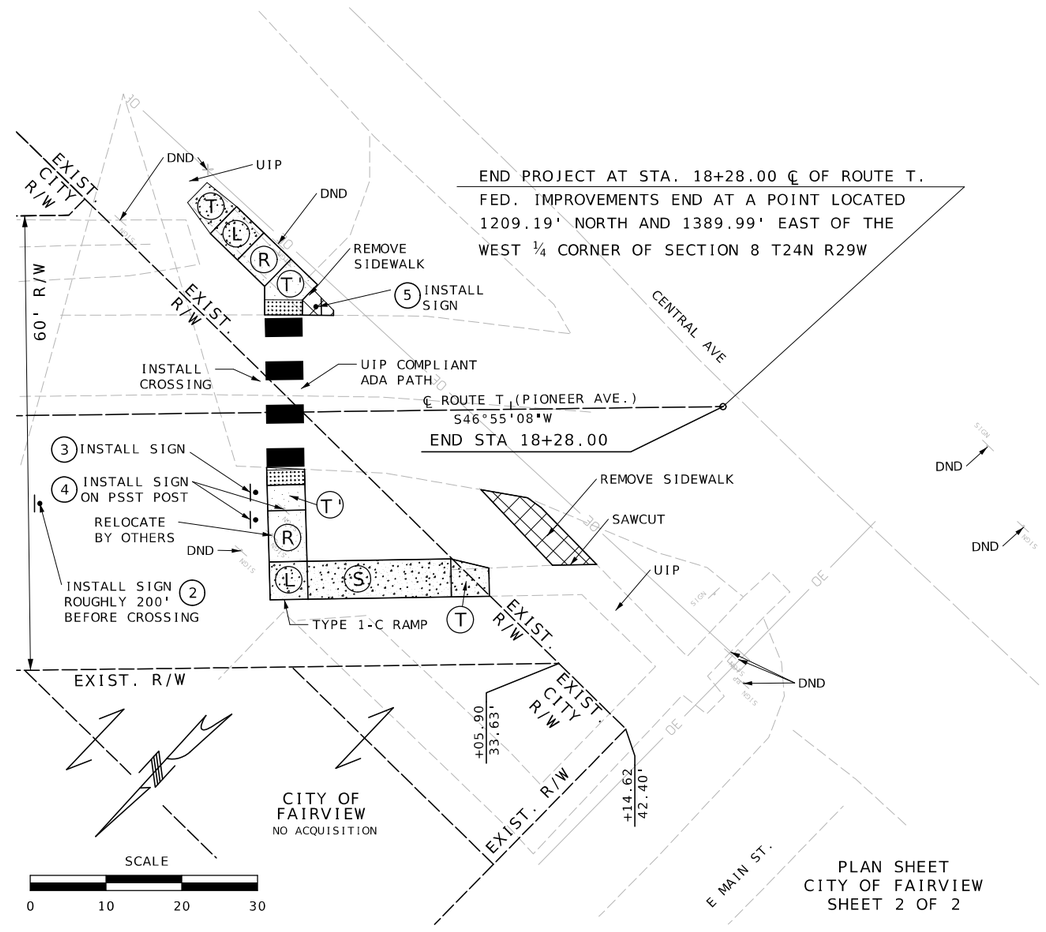
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

Bartlett & West
601 MONROE ST. SUITE 201 - JEFFERSON CITY, MO 65101
PHONE 573-634-3181
CERTIFICATE OF AUTHORITY NO. 000167 - ENGINEERING
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NE 1/4 NW 1/4
S8 T24N R29W



END PROJECT AT STA. 18+28.00 ℄ OF ROUTE T.
FED. IMPROVEMENTS END AT A POINT LOCATED
1209.19' NORTH AND 1389.99' EAST OF THE
WEST ¼ CORNER OF SECTION 8 T24N R29W

PLAN SHEET
CITY OF FAIRVIEW
SHEET 2 OF 2

STATE OF MISSOURI
ROBERT B. GREEN
NUMBER PE-25339
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED 3/5/2025

ROUTE	STATE
VAR.	MO
DISTRICT	SHEET NO.
SW	5

COUNTY NEWTON
JOB NO. J7S3506
CONTRACT ID.
PROJECT NO.
BRIDGE NO.

DESCRIPTION	DATE

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

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

Bartlett & West
601 MONROE ST. SUITE 201 - JEFFERSON CITY, MO 65101
PHONE 573-634-3181
CERTIFICATE OF AUTHORITY NO. 000167 - ENGINEERING
WWW.BARTLETTWEST.COM

GENERAL NOTE

1. RIGHT OF WAY LIMITS FOR THIS PROJECT EXTEND FROM STA. 901+50.00 US 60 TO STA. 916+00.00 US 60 A DISTANCE OF 0.275 MILES.
2. ANY WORK INDICATED ON THE PLANS THAT EXTENDS BEYOND THE PROJECT LIMITS IS CONSIDERED INCIDENTAL TO AND A PART OF THE CONSTRUCTION OF THIS PROJECT.
3. ALL UTILITIES SHALL NOT BE DISTURBED DURING CONSTRUCTION UNLESS OTHERWISE NOTED ON THE PLANS.
4. ALL SIDEWALK AND RAMPS SHALL BE CONSTRUCTED 5 FEET WIDE UNLESS OTHERWISE NOTED IN THE PLANS.
5. ALL BEARINGS ARE BASED ON STATE PLANE BEARINGS, WEST ZONE.

CERTIFIED LAND CORNER

THE SOUTHWEST CORNER OF SECTION 6 T25N R30N IS LOCATED 3866.46' N73°50'09"E OF STA. 901+50.00 CENTERLINE OF US 60 FOUND BY JAMES LONCARICH DOUCUMENT NUMBER 600-42351

HOWE, CHRIS & DESIREE
NO ACQUISITION

STA. 903+02.82 LT
8" PCC PE
56' WIDE
UIP PIPE
EX. +7.17% SLOPE

NE 1/4 NW 1/4
S6 T25N R30W

SCALE
0 10 20 30

EXIST. R/W

UIP

DND

N HILLCREST DR

TYPE 1-C RAMP

UIP COMPLIANT ADA PATH

UIP PIPE

50' R/W

UIP ENTRANCE

UIP PIPE

UIP

MATCHLINE STA. 903+86.76

BEGIN PROJECT AT STA. 901+50.00 ℄ OF US 60
FED. IMPROVEMENTS BEGIN AT A POINT LOCATED
1076.39' SOUTH AND 3713.60' WEST OF THE
SOUTHEAST CORNER OF SECTION SECTION 31 T26N R30N

℄ US 60 (E VALLEY ST.)
N62°13'16"E

MCCULLY, RICK
NO ACQUISITION

UIP PED. BRIDGE

HOWE, CHRIS & DESIREE
NO ACQUISITION

NE 1/4 NW 1/4
S6 T25N R30W

SCALE
0 10 20 30

EXIST. R/W

ADJUSTED BY OTHERS

TYPE 1-C RAMP

DND

UIP COMPLIANT SIDEWALK

905

50' R/W

UIP PIPE

MATCHLINE STA. 903+86.76

℄ US 60 (E VALLEY ST.)
N76°04'12"E

SIDEWALK
CURB RAMP
APPROACH
TRUNCATED DOMES
REMOVALS
CONCRETE MEDIAN STRIP
L LANDING
R RAMP
S SIDEWALK
T TRANSITION

PLAN SHEET
CITY OF GRANBY
SHEET 1 OF 3

STATE OF MISSOURI
ROBERT B. GREEN
NUMBER PE-25339
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

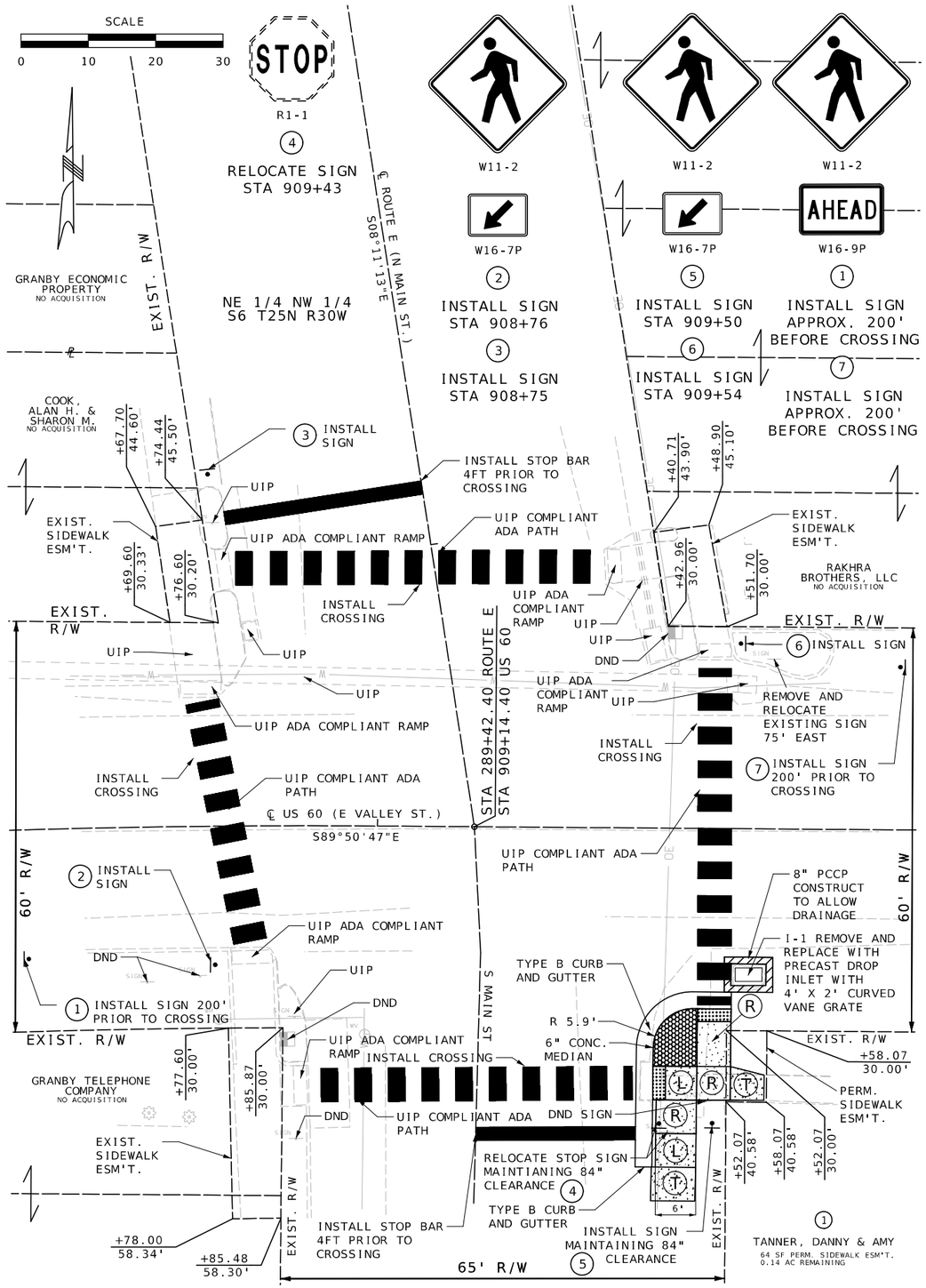
DATE PREPARED 3/3/2025
ROUTE VAR. | STATE MO
DISTRICT SW | SHEET NO. 6
COUNTY NEWTON
JOB NO. J7S3506
CONTRACT ID.
PROJECT NO.
BRIDGE NO.

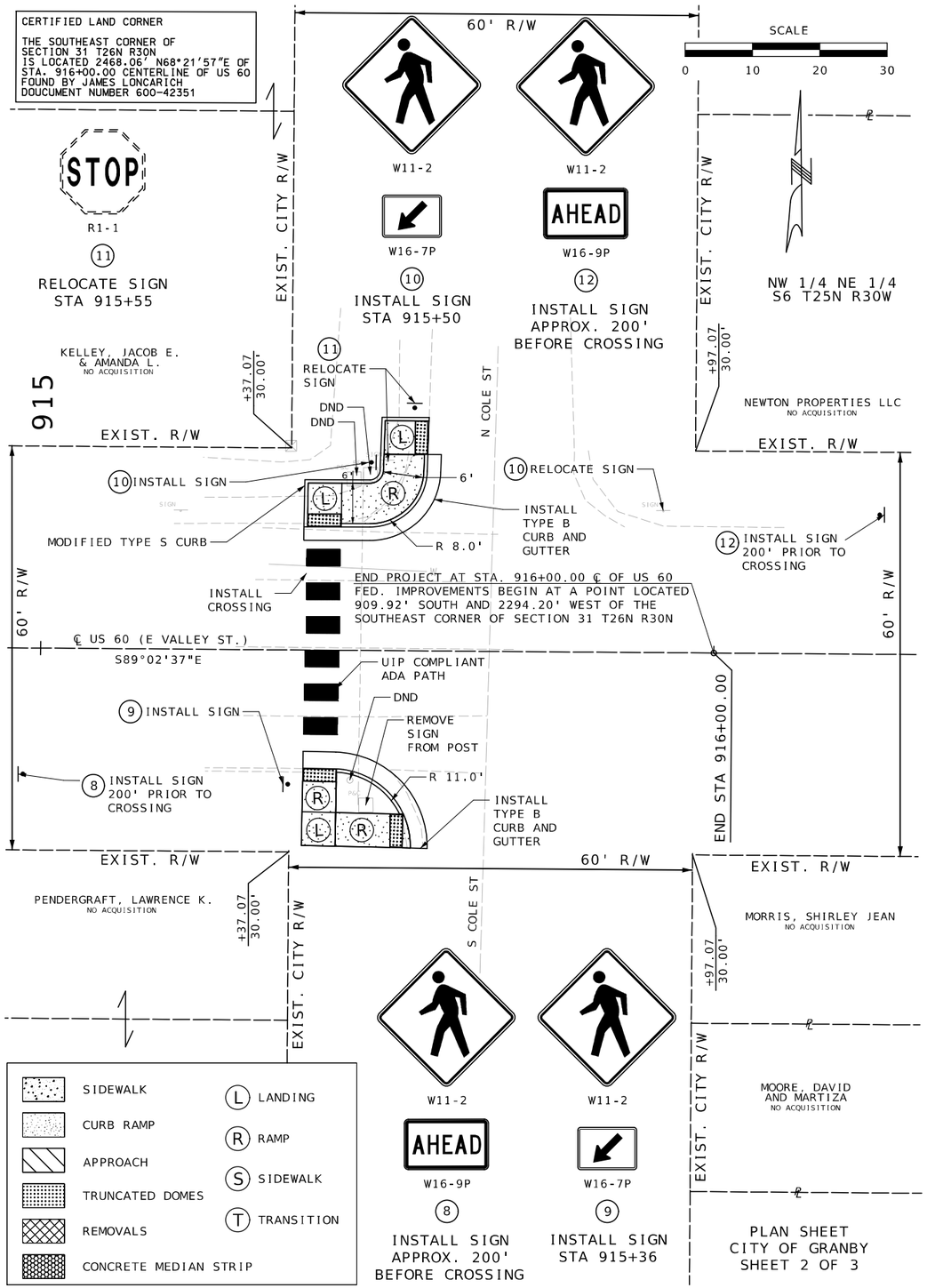
IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

NO.	DESCRIPTION	DATE

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

Bartlett & West
601 MONROE ST. SUITE 201 - JEFFERSON CITY, MO 65101
PHONE 573-634-3181
CERTIFICATE OF AUTHORITY NO. 000167 - ENGINEERING
WWW.BARTLETTWEST.COM





STATE OF MISSOURI
ROBERT B. GREEN
NUMBER PE-25339
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED SEALED AND DATED ELECTRONICALLY.

DATE PREPARED
4/8/2025

ROUTE	STATE
VAR.	MO
DISTRICT	SHEET NO.
SW	7

COUNTY
NEWTON

JOB NO.
J7S3506

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DATE	DESCRIPTION

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

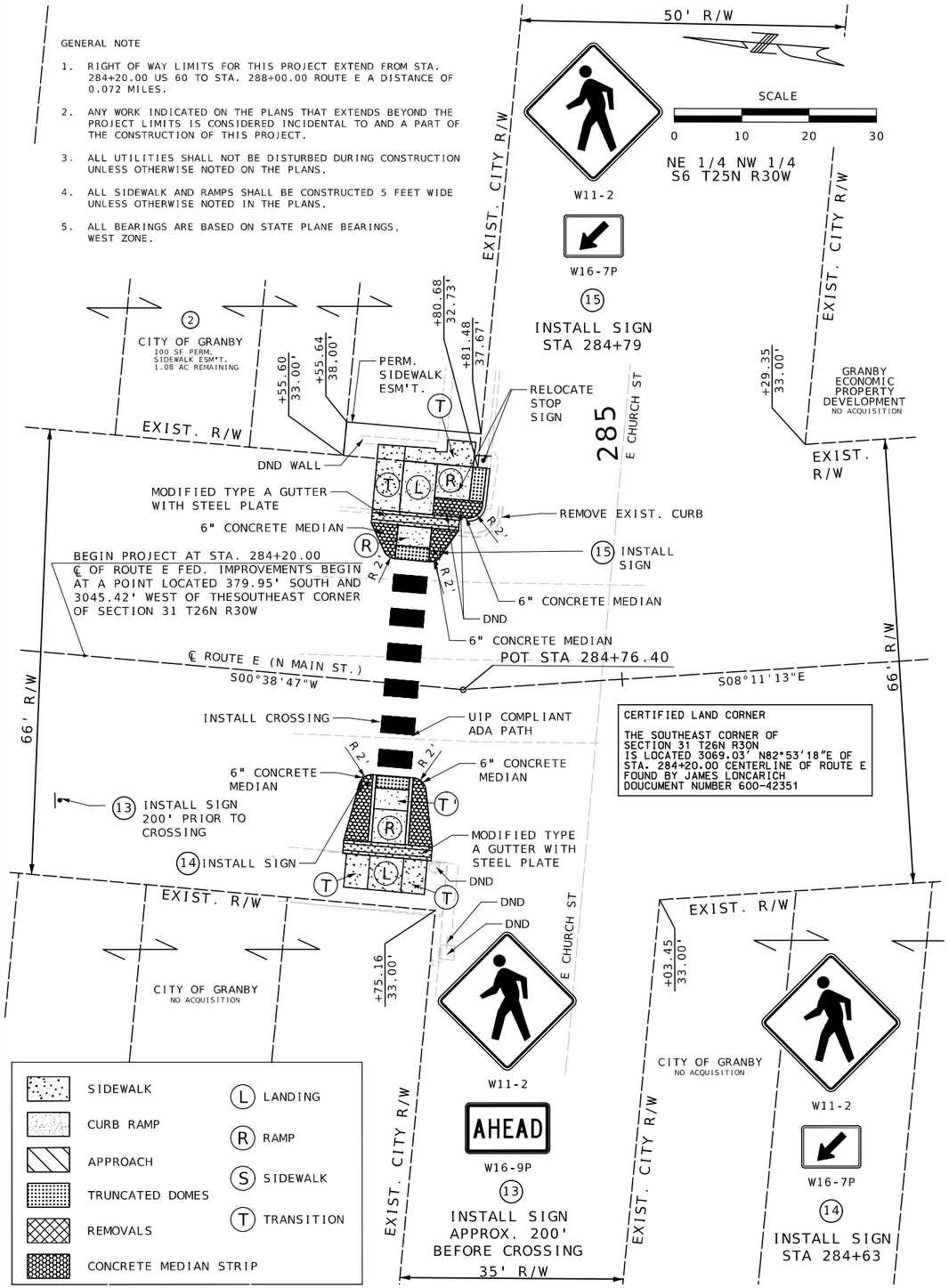
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
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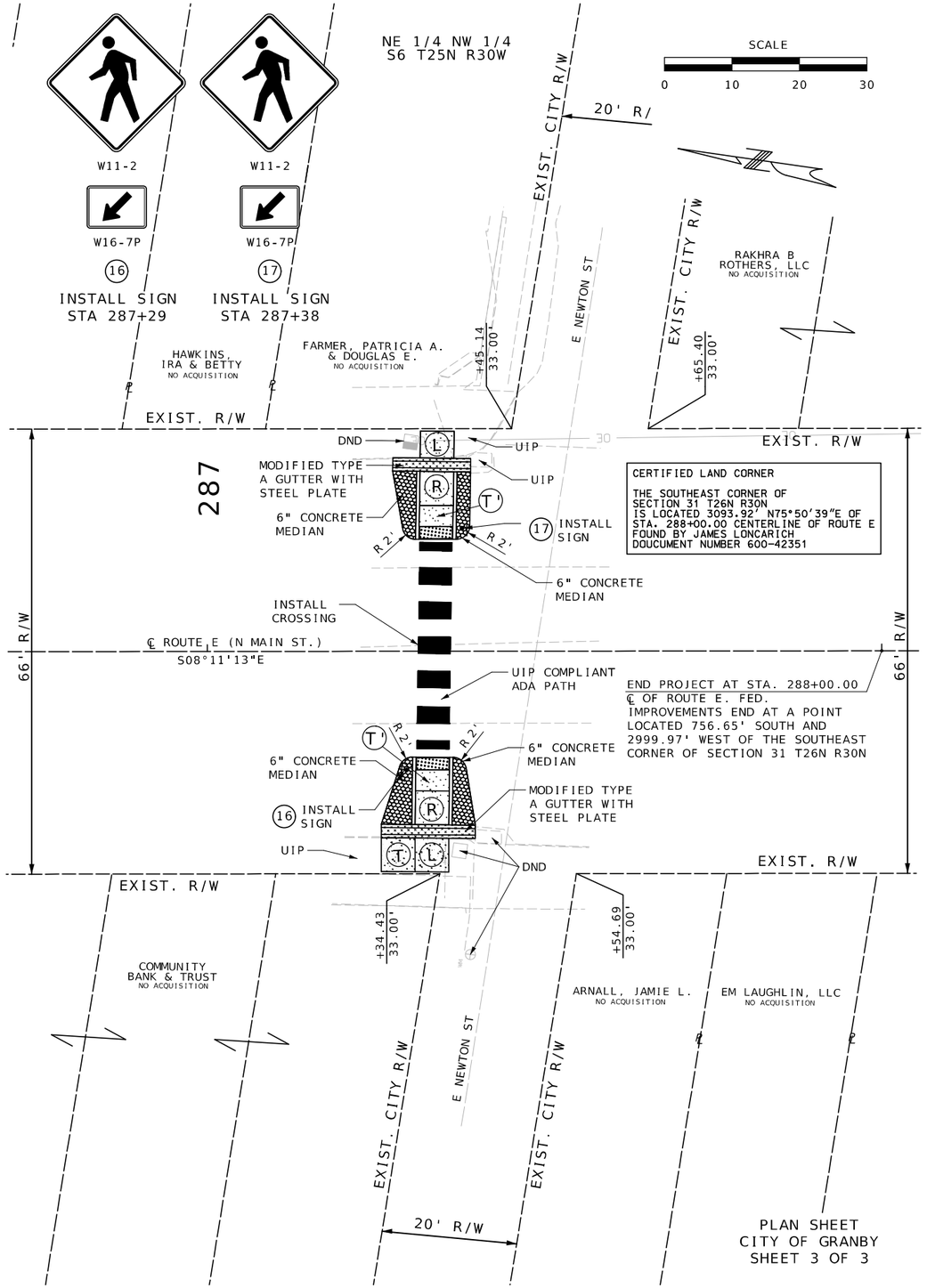
Bartlett & West
601 MONROE ST. SUITE 201 - JEFFERSON CITY, MO 65101
PHONE 573-634-3181
CERTIFICATE OF AUTHORITY NO. 000167 - ENGINEERING
WWW.BARTLETTWEST.COM

REV.

GENERAL NOTE

1. RIGHT OF WAY LIMITS FOR THIS PROJECT EXTEND FROM STA. 284+20.00 US 60 TO STA. 288+00.00 ROUTE E A DISTANCE OF 0.072 MILES.
2. ANY WORK INDICATED ON THE PLANS THAT EXTENDS BEYOND THE PROJECT LIMITS IS CONSIDERED INCIDENTAL TO AND A PART OF THE CONSTRUCTION OF THIS PROJECT.
3. ALL UTILITIES SHALL NOT BE DISTURBED DURING CONSTRUCTION UNLESS OTHERWISE NOTED ON THE PLANS.
4. ALL SIDEWALK AND RAMPS SHALL BE CONSTRUCTED 5 FEET WIDE UNLESS OTHERWISE NOTED IN THE PLANS.
5. ALL BEARINGS ARE BASED ON STATE PLANE BEARINGS, WEST ZONE.





STATE OF MISSOURI
ROBERT B. GREEN
NUMBER PE-25339
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED 3/3/2025

ROUTE	STATE
VAR.	MO
DISTRICT	SHEET NO.
SW	8

COUNTY NEWTON

JOB NO. J7S3506

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DATE	DESCRIPTION

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

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

Bartlett & West
601 MONROE ST. SUITE 201 - JEFFERSON CITY, MO 65101
PHONE 573-634-3181
CERTIFICATE OF AUTHORITY NO. 000167 - ENGINEERING
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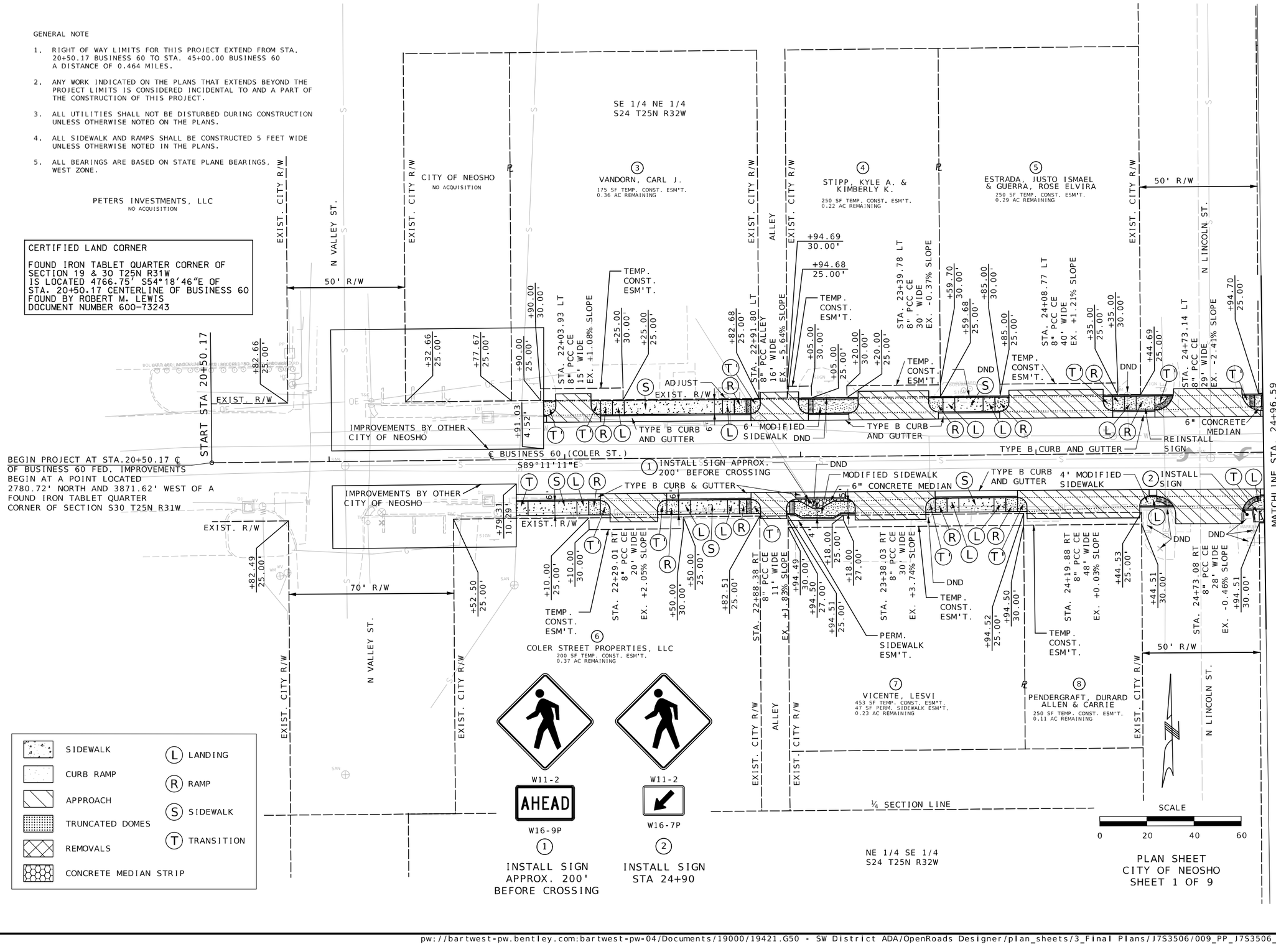
GENERAL NOTE

1. RIGHT OF WAY LIMITS FOR THIS PROJECT EXTEND FROM STA. 20+50.17 BUSINESS 60 TO STA. 45+00.00 BUSINESS 60 A DISTANCE OF 0.464 MILES.
2. ANY WORK INDICATED ON THE PLANS THAT EXTENDS BEYOND THE PROJECT LIMITS IS CONSIDERED INCIDENTAL TO AND A PART OF THE CONSTRUCTION OF THIS PROJECT.
3. ALL UTILITIES SHALL NOT BE DISTURBED DURING CONSTRUCTION UNLESS OTHERWISE NOTED ON THE PLANS.
4. ALL SIDEWALK AND RAMPS SHALL BE CONSTRUCTED 5 FEET WIDE UNLESS OTHERWISE NOTED IN THE PLANS.
5. ALL BEARINGS ARE BASED ON STATE PLANE BEARINGS, WEST ZONE.

PETERS INVESTMENTS, LLC
NO ACQUISITION

CERTIFIED LAND CORNER

FOUND IRON TABLET QUARTER CORNER OF SECTION 19 & 30 T25N R31W IS LOCATED 4766.75' S54°18'46"E OF STA. 20+50.17 CENTERLINE OF BUSINESS 60 FOUND BY ROBERT M. LEWIS DOCUMENT NUMBER 600-73243



STATE OF MISSOURI
ROBERT B. GREEN
NUMBER PE-25339
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED 3/14/2025

ROUTE	STATE
VAR.	MO
DISTRICT	SHEET NO.
SW	9

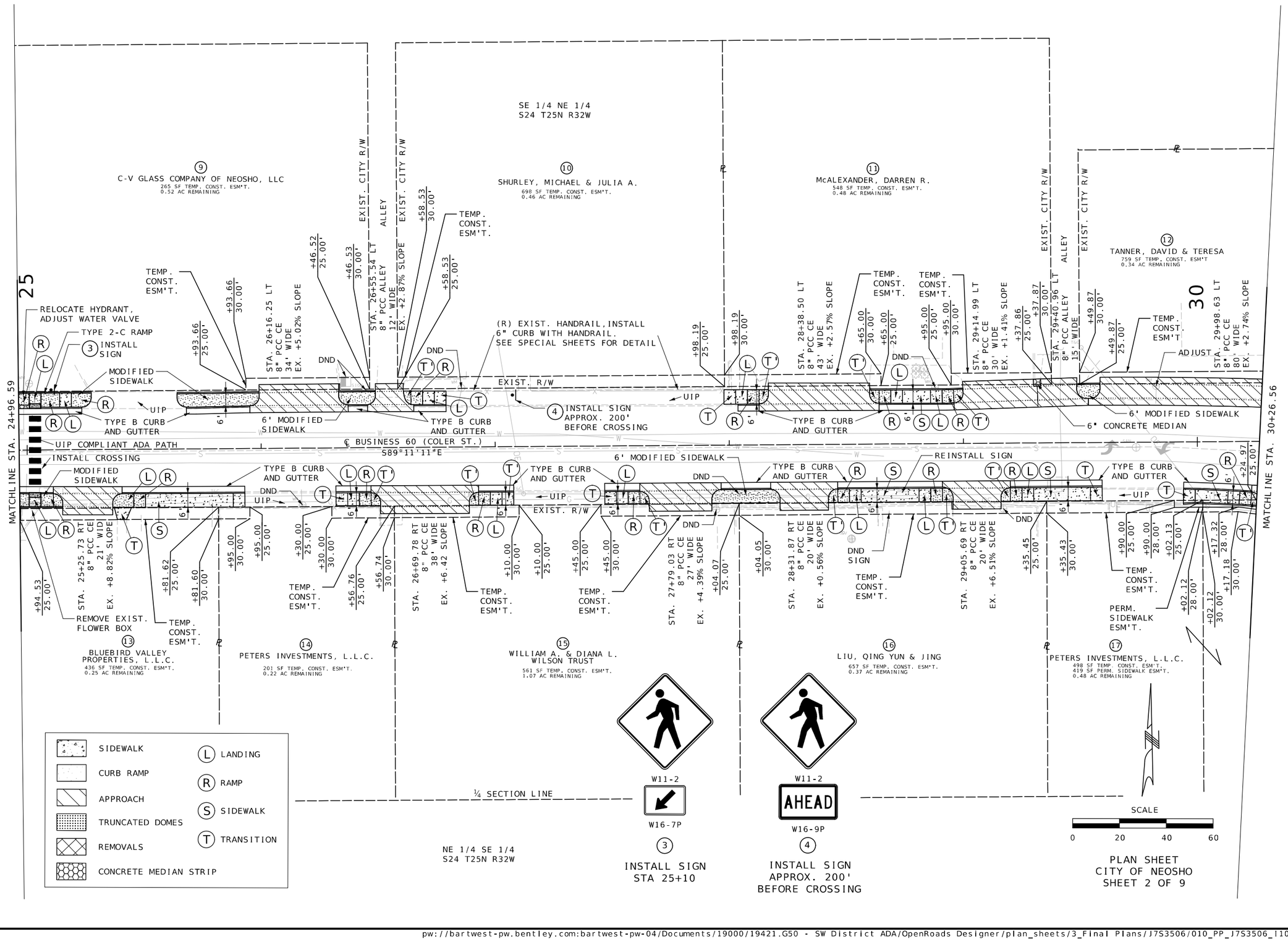
COUNTY NEWTON
JOB NO. J7S3506
CONTRACT ID.
PROJECT NO.
BRIDGE NO.

DATE	DESCRIPTION

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

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

Bartlett & West
601 MONROE ST. SUITE 201 - JEFFERSON CITY, MO 65101
PHONE 573-634-3181
CERTIFICATE OF AUTHORITY NO. 000167 - ENGINEERING
WWW.BARTLETTWEST.COM



STATE OF MISSOURI
ROBERT B. GREEN
NUMBER PE-25339
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED
3/14/2025

ROUTE	STATE
VAR.	MO
DISTRICT	SHEET NO.
SW	10

COUNTY
NEWTON

JOB NO.
J7S3506

CONTRACT ID.

PROJECT NO.

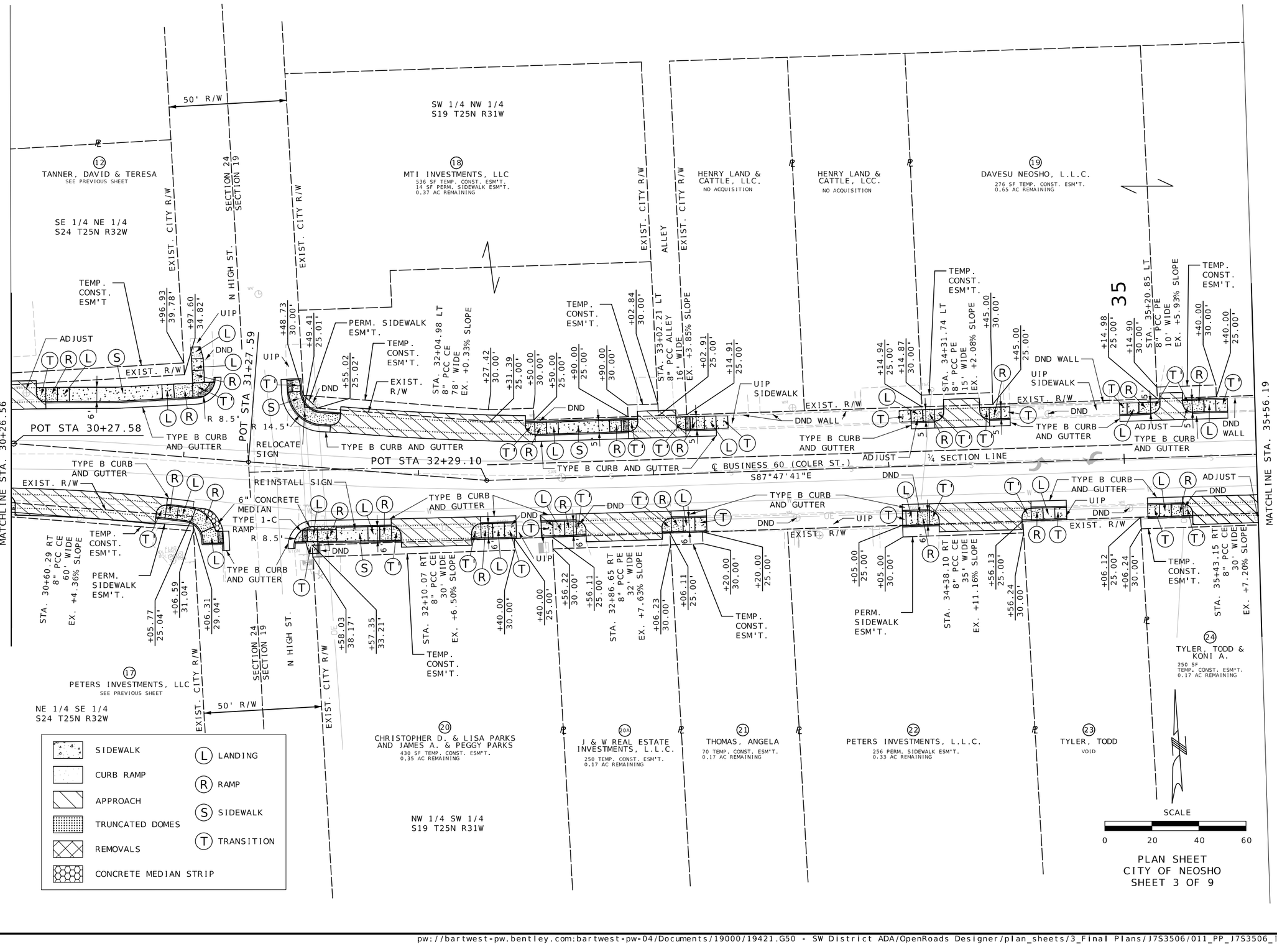
BRIDGE NO.

DATE	DESCRIPTION

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

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

Bartlett & West
601 MONROE ST. SUITE 201 - JEFFERSON CITY, MO 65101
PHONE 573-634-3181
CERTIFICATE OF AUTHORITY NO. 000167 - ENGINEERING
WWW.BARTLETTWEST.COM



PLAN SHEET
CITY OF NEOSHO
SHEET 3 OF 9

THIS SHEET HAS BEEN SIGNED SEALED AND DATED ELECTRONICALLY.

ROBERT B. GREEN
NUMBER PE-25339
PROFESSIONAL ENGINEER
STATE OF MISSOURI

DATE PREPARED: 3/14/2025

ROUTE	STATE
VAR.	MO
DISTRICT	SHEET NO.
SW	11

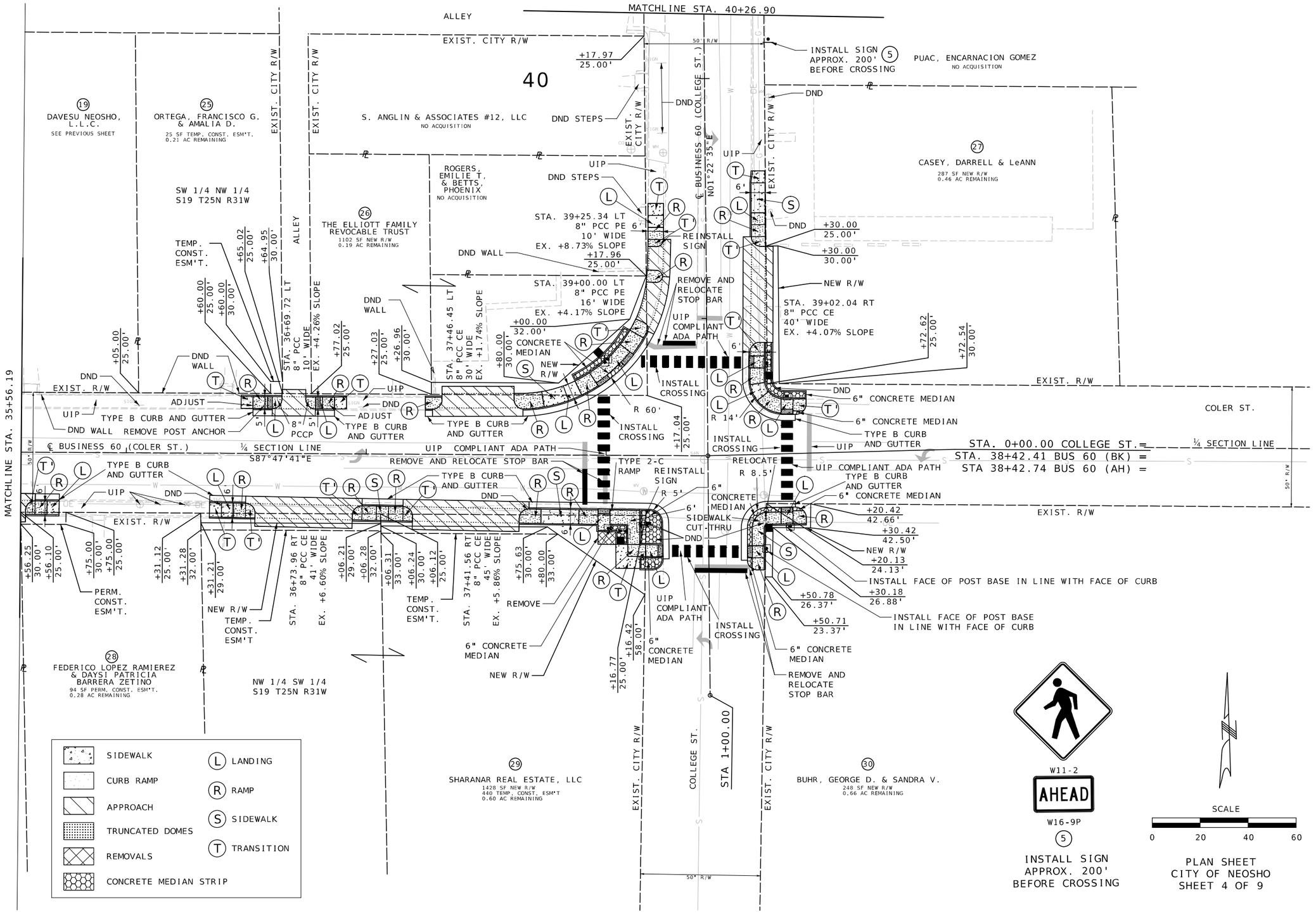
COUNTY: NEWTON
JOB NO.: J7S3506
CONTRACT ID.:
PROJECT NO.:
BRIDGE NO.:

DESCRIPTION	DATE

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

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

Bartlett & West
601 MONROE ST. SUITE 201 - JEFFERSON CITY, MO 65101
PHONE 573-634-3181
CERTIFICATE OF AUTHORITY NO. 000167 - ENGINEERING
WWW.BARTLETTWEST.COM



STATE OF MISSOURI
ROBERT B. GREEN
NUMBER PE-25339
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED 4/7/2025

ROUTE	STATE
VAR.	MO
DISTRICT	SHEET NO.
SW	12

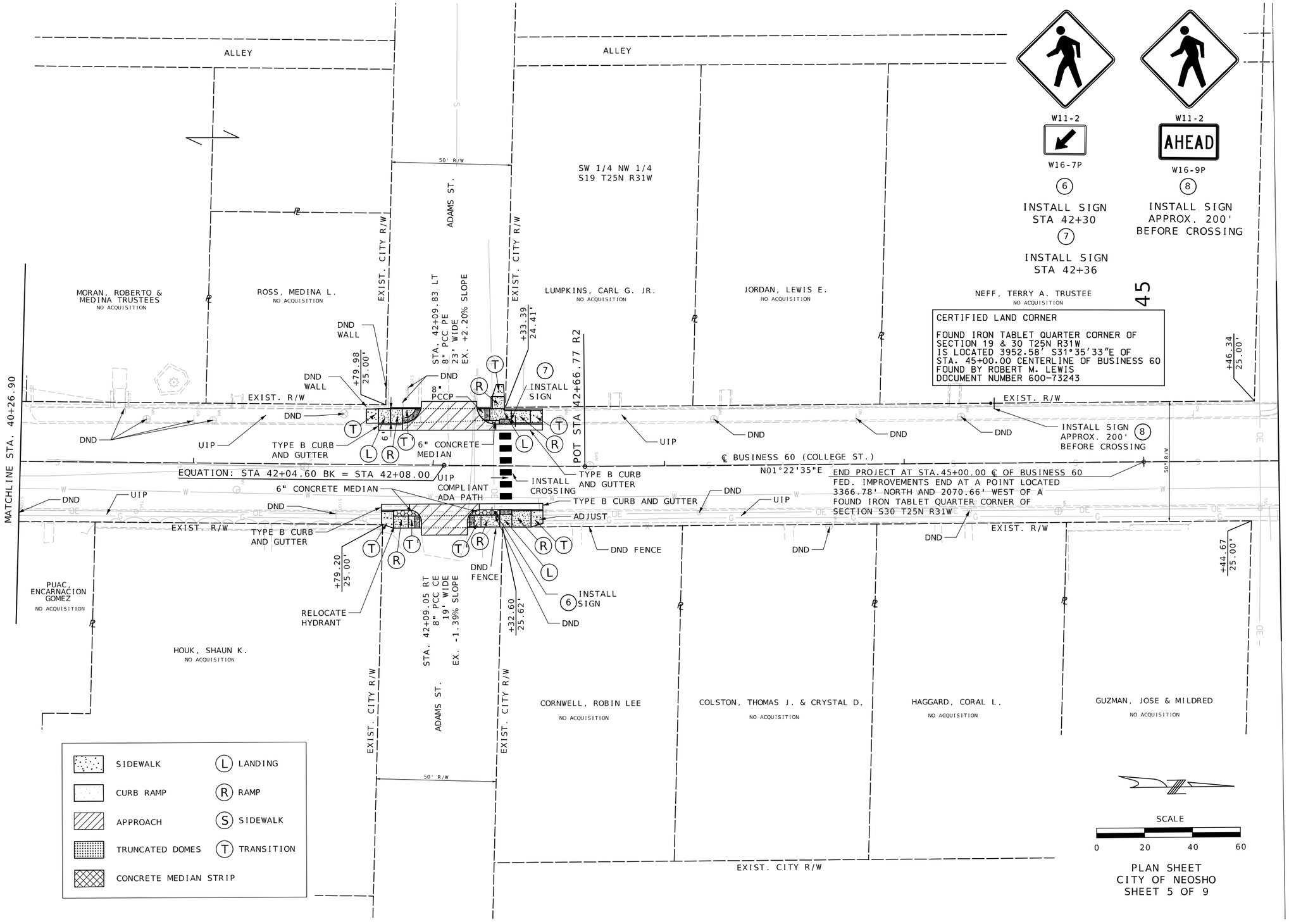
COUNTY NEWTON
JOB NO. J7S3506
CONTRACT ID.
PROJECT NO.
BRIDGE NO.

DESCRIPTION
DATE

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

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

Bartlett & West
601 MONROE ST. SUITE 201 - JEFFERSON CITY, MO 65101
PHONE 573-634-3181
CERTIFICATE OF AUTHORITY NO. 000167 - ENGINEERING
WWW.BARTLETTWEST.COM



STATE OF MISSOURI
ROBERT B. GREEN
NUMBER PE-25339
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED
3/14/2025

ROUTE	STATE
VAR.	MO
DISTRICT	SHEET NO.
SW	13

COUNTY
NEWTON

JOB NO.
J7S3506

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DATE	DESCRIPTION

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

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

Bartlett & West
601 MONROE ST. SUITE 201 - JEFFERSON CITY, MO 65101
PHONE 573-634-3181
CERTIFICATE OF AUTHORITY NO. 000167 - ENGINEERING
WWW.BARTLETTWEST.COM

pw://bartwest-pw.bentley.com:bartwest-pw-04/Documents/19000/19421.G50 - SW District ADA/OpenRoads Designer/plan_sheets/3_Final Plans/J7S3506/013_PP_J7S3506_I10 9:41:51 AM 3/14/2025

GENERAL NOTE

1. RIGHT OF WAY LIMITS FOR THIS PROJECT EXTEND FROM STA. 67+00.00 BUSINESS 60 TO STA. 73+00.00 BUSINESS 60 A DISTANCE OF 0.117 MILES.
2. ANY WORK INDICATED ON THE PLANS THAT EXTENDS BEYOND THE PROJECT LIMITS IS CONSIDERED INCIDENTAL TO AND A PART OF THE CONSTRUCTION OF THIS PROJECT.
3. ALL UTILITIES SHALL NOT BE DISTURBED DURING CONSTRUCTION UNLESS OTHERWISE NOTED ON THE PLANS.
4. ALL SIDEWALK AND RAMPS SHALL BE CONSTRUCTED 5 FEET WIDE UNLESS OTHERWISE NOTED IN THE PLANS.
5. ALL BEARINGS ARE BASED ON STATE PLANE BEARINGS, WEST ZONE.

70

60' R/W

WASHINGTON AVE

EXIST. CITY R/W

EXIST. CITY R/W

+11.26
25.00'

+71.26
25.00'

CITY OF NEOSHO
NO ACQUISITION

CITY OF NEOSHO
NO ACQUISITION

CITY OF NEOSHO
NO ACQUISITION

DND EXIST. POWER POLE AND SIGN

DND EXIST. POWER POLE

EXIST. R/W

EXIST. R/W

UIP COMPLIANT ADA PATH

R 6.0'

6'

TYPE 1-B RAMP

TYPE B CURB AND GUTTER

UIP 4' SIDEWALK

50' R/W

℄ BUSINESS 60 (COLLEGE ST.)
N01°01'25"E

BEGIN PROJECT AT STA.67+00.00 ℄ OF BUSINESS 60
FED. IMPROVEMENTS BEGIN AT A POINT LOCATED
5866.45' NORTH AND 2026.61' WEST OF A
FOUND IRON TABLET QUARTER CORNER OF
SECTION S30 T25N R31W

EXIST. R/W

CERTIFIED LAND CORNER

FOUND IRON TABLET QUARTER CORNER OF
SECTION 19 & 30 T25N R31W
IS LOCATED 6202.64' S19°03'28"E OF
STA. 67+00.00 CENTERLINE OF BUSINESS 60
FOUND BY ROBERT M. LEWIS
DOCUMENT NUMBER 600-73243

CITY OF NEOSHO
NO ACQUISITION

SW 1/4 SW 1/4
S18 T25N R31W

SCALE
0 20 40 60

75

CERTIFIED LAND CORNER

FOUND IRON TABLET QUARTER CORNER OF
SECTION 19 & 30 T25N R31W
IS LOCATED 6773.30' S17°18'54"E OF
STA. 73+00.00 CENTERLINE OF BUSINESS 60
FOUND BY ROBERT M. LEWIS
DOCUMENT NUMBER 600-73243

CITY OF NEOSHO
NO ACQUISITION

DND EXIST. POWER POLE

RELOCATE SIGN OUT OF ADA PATH

DND EXIST. POWER POLE

EXIST. R/W

UIP 5' BOC SIDEWALK

TYPE B CURB AND GUTTER

6' PASSING ZONE

UIP 4' SIDEWALK

TYPE B CURB AND GUTTER

6'

TYPE 2-A RAMP

REMOVE REMNANTS OF EXIST. ENTRANCE

℄ BUSINESS 60 (COLLEGE ST.)
N01°01'25"E

50' R/W

END PROJECT AT STA.73+00.00 ℄ OF BUSINESS 60
FED. IMPROVEMENTS END AT A POINT LOCATED
6466.36' NORTH AND 2015.90' WEST OF A
FOUND IRON TABLET QUARTER CORNER OF
SECTION S30 T25N R31W

EXIST. R/W

SW 1/4 SW 1/4
S18 T25N R31W

CITY OF NEOSHO
NO ACQUISITION

SIDEWALK
CURB RAMP
APPROACH
TRUNCATED DOMES
REMOVALS
CONCRETE MEDIAN STRIP

(L) LANDING
(R) RAMP
(S) SIDEWALK
(T) TRANSITION

SCALE
0 20 40 60

PLAN SHEET
CITY OF NEOSHO
SHEET 6 OF 9

STATE OF MISSOURI
ROBERT B. GREEN
NUMBER PE-2539
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED
3/3/2025

ROUTE	STATE
VAR.	MO
DISTRICT	SHEET NO.
SW	14

COUNTY
NEWTON

JOB NO.
J7S3506

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION	DATE

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

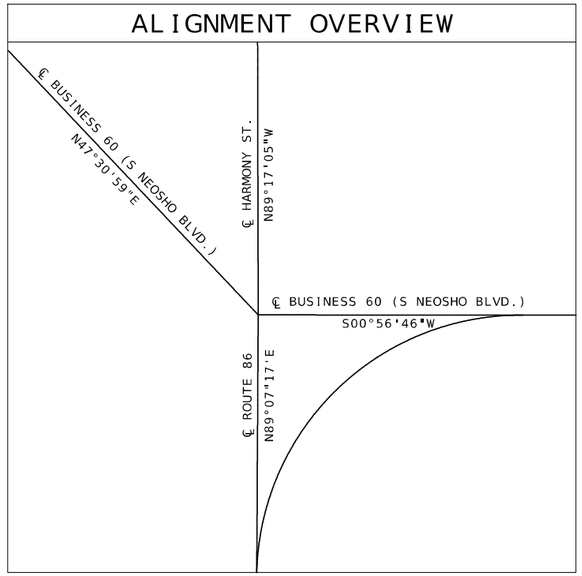
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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

Bartlett & West

601 MONROE ST. SUITE 201 - JEFFERSON CITY, MO 65101
PHONE 573-634-3181
CERTIFICATE OF AUTHORITY NO. 000107 - ENGINEERING
WWW.BARTLETTWEST.COM

ALIGNMENT OVERVIEW



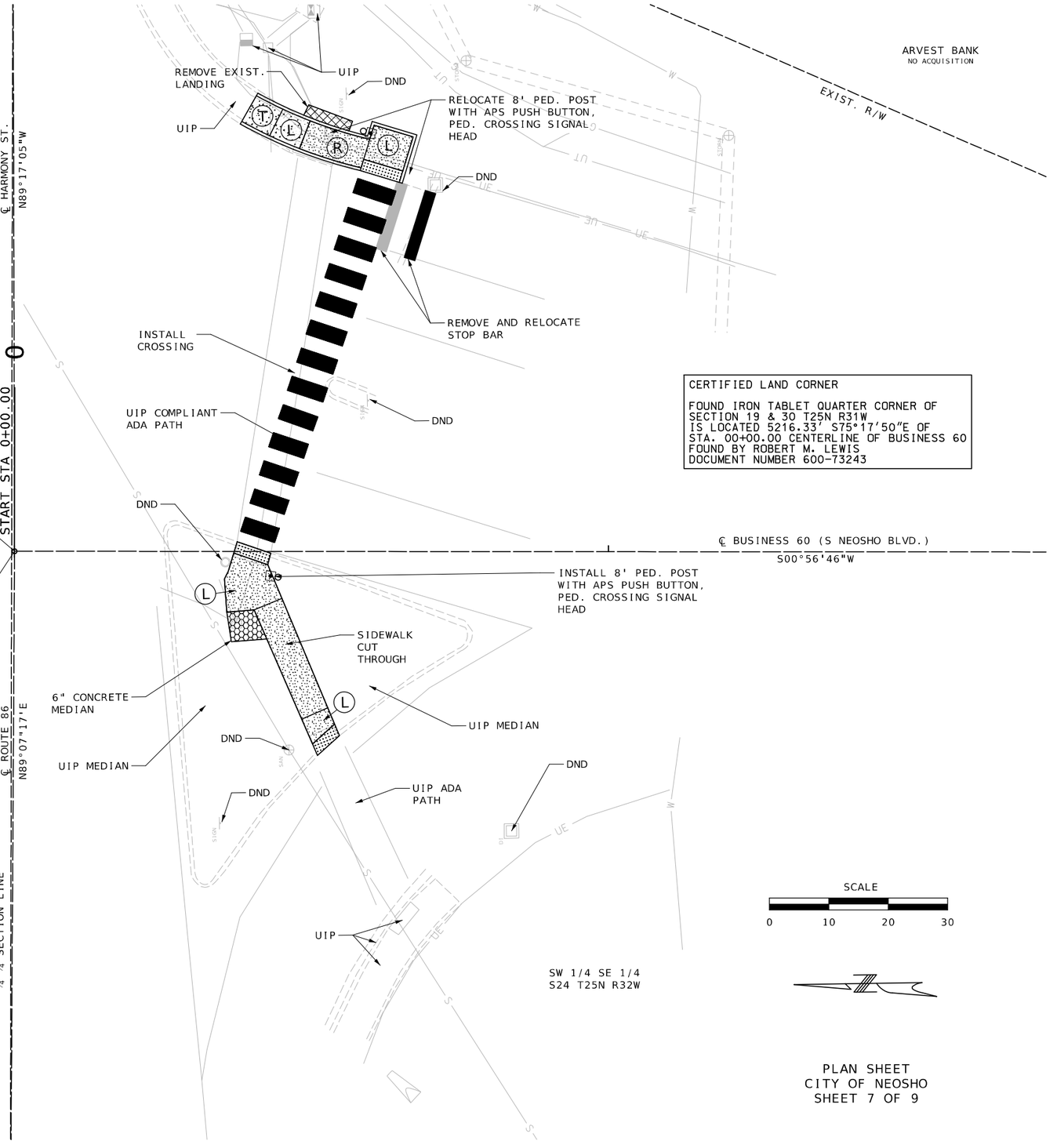
BEGIN PROJECT AT STA.0+00.00 ℄ OF BUSINESS 60
FED. IMPROVEMENTS BEGIN AT A POINT LOCATED
1323.92' NORTH AND 5045.53' WEST OF A
FOUND IRON TABLET QUARTER CORNER OF
SECTION S30 T25N R31W

STA. 25+34.75 RTE. 86 BK. =
STA. 10+00.00 HARMONY ST. BK. =
STA. 0+00.00 BUS. 60 AHD.

GENERAL NOTE

1. RIGHT OF WAY LIMITS FOR THIS PROJECT EXTEND FROM STA. 0+00.00 BUSINESS 60 TO STA. 41+50.00 BUSINESS 60 A DISTANCE OF 0.786 MILES.
2. ANY WORK INDICATED ON THE PLANS THAT EXTENDS BEYOND THE PROJECT LIMITS IS CONSIDERED INCIDENTAL TO AND A PART OF THE CONSTRUCTION OF THIS PROJECT.
3. ALL UTILITIES SHALL NOT BE DISTURBED DURING CONSTRUCTION UNLESS OTHERWISE NOTED ON THE PLANS.
4. ALL SIDEWALK AND RAMPS SHALL BE CONSTRUCTED 5 FEET WIDE UNLESS OTHERWISE NOTED IN THE PLANS.
5. ALL BEARINGS ARE BASED ON STATE PLANE BEARINGS, WEST ZONE.

- SIDEWALK
- CURB RAMP
- APPROACH
- TRUNCATED DOMES
- REMOVALS
- CONCRETE MEDIAN STRIP
- (L) LANDING
- (R) RAMP
- (S) SIDEWALK
- (T) TRANSITION



CERTIFIED LAND CORNER

FOUND IRON TABLET QUARTER CORNER OF SECTION 19 & 30 T25N R31W IS LOCATED 5216.33' S75°17'50"E OF STA. 00+00.00 CENTERLINE OF BUSINESS 60 FOUND BY ROBERT M. LEWIS DOCUMENT NUMBER 600-73243

SCALE
0 10 20 30

PLAN SHEET
CITY OF NEOSHO
SHEET 7 OF 9

STATE OF MISSOURI
ROBERT B. GREEN
NUMBER PE-2533B
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

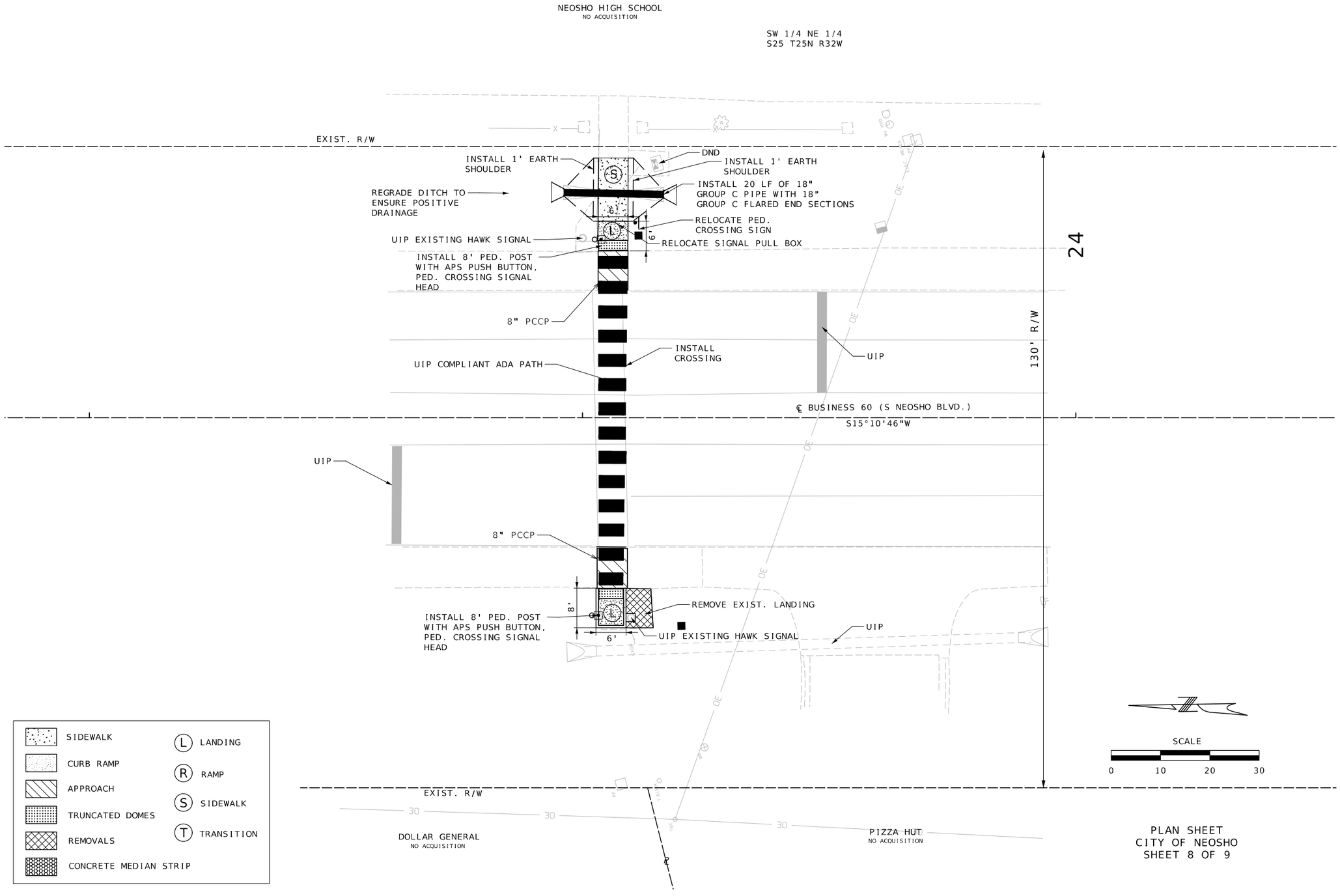
DATE PREPARED 3/3/2025
ROUTE VAR. | STATE MO
DISTRICT SW | SHEET NO. 15
COUNTY NEWTON
JOB NO. J7S3506
CONTRACT ID.
PROJECT NO.
BRIDGE NO.

DESCRIPTION	DATE

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

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

Bartlett & West
601 MONROE ST. SUITE 201 - JEFFERSON CITY, MO 65101
PHONE 573-634-3181
CERTIFICATE OF AUTHORITY NO. 000167 - ENGINEERING
WWW.BARTLETTWEST.COM



PLAN SHEET
CITY OF NEOSHO
SHEET 8 OF 9

STATE OF MISSOURI
ROBERT B. GREEN
NUMBER PE-2539
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED
3/3/2025

ROUTE	STATE
VAR.	MO
DISTRICT	SHEET NO.
SW	16

COUNTY
NEWTON

JOB NO.
J7S3506

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION	DATE

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

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

Bartlett & West
601 MONROE ST. SUITE 201 - JEFFERSON CITY, MO 65101
PHONE 573-634-3181
CERTIFICATE OF AUTHORITY NO. 000167 - ENGINEERING
WWW.BARTLETTWEST.COM

817 CORNER, LLC
NO ACQUISITION

WESTCO OF OKLAHOMA, INC.
NO ACQUISITION

EXIST. CITY R/W
50' R/W
EXIST. CITY R/W
W SOUTH ST.
S88°59'34"E
+01.57
60.01'
+53.03
60.01'
EXIST. R/W
EXIST. R/W
UIP
UIP
INSTALL PED. SIGNAL
TYPE 1-C RAMP
MODIFIED TYPE S CURB
DND HEADWALL
INSTALL CROSSING
INSTALL APS PUSH BUTTON AND TO EXIST. PED. POST
DND
INSTALL 8' PED. POST WITH APS PUSH BUTTON, PED. CROSSING SIGN, AND SIGNAL HEAD
INSTALL APS PUSH BUTTON AND PED. CROSSING SIGNAL HEAD TO EXIST. PED. POST
UIP COMPLIANT ADA PATH
R 15.8'
85'
DND
REMOVE POST AND EXIST.CURB RAMP
INSTALL 8' PED. POST WITH APS PUSH BUTTON, PED. CROSSING SIGN, AND SIGNAL HEAD

PI 40+16.90
PC 36+65.10
PT 43+68.48
Δ 3°30'59.5" (LT)
D 0°29'59.8"
L 703.37' (ARC)
T 351.80'
R 11,460.28'

CERTIFIED LAND CORNER

FOUND IRON QUARTER CORNER OF
SECTION 19 & 30 T25N R31W
IS LOCATED 6418.59' N64°50'23"E OF
STA. 41+50.00 CENTERLINE OF BUSINESS 60
FOUND BY ROBERT M. LEWIS
DOCUMENT NUMBER 600-73243

INSTALL CROSSING
UIP
INSTALL CROSSING
UIP COMPLIANT ADA PATH
77°40'54"
℄ BUSINESS 60 (S NEOSHO BLVD.)
S13°41'10"W
UIP
REMOVE AND RELOCATE STOP BAR
77°27'51"
END PROJECT AT STA. 41+50.00 ℄ OF BUSINESS 60
FED. IMPROVEMENTS END AT A POINT LOCATED
2728.86' SOUTH AND 5809.61' WEST OF A
FOUND IRON TABLET QUARTER CORNER OF
SECTION S30 T25N R31W
UIP COMPLIANT ADA PATH
¼ SECTION LINE
135' R/W
TYPE B CURB AND GUTTER
8" PCCP
8" PCCP
R 38.1'
TYPE B CURB AND GUTTER
UIP ADA PATH
DND
SE 1/4 NW 1/4
S25 T25N R32W
REMOVE
REMOVE EXIST. PED HEADS FROM EXIST. SIGNAL POST
R 19.5'
NE 1/4 SW 1/4
S25 T25N R32W
INSTALL 8' PED. POST WITH APS PUSH BUTTON, PED. CROSSING SIGN, AND SIGNAL HEAD
INSTALL CROSSING
UIP COMPLIANT ADA PATH
DND HEADWALL
INSTALL 8' PED. POST WITH APS PUSH BUTTON, PED. CROSSING SIGN, AND SIGNAL HEAD
INSTALL 8' PED. POST WITH APS PUSH BUTTON, PED. CROSSING SIGNAL HEAD
REMOVE AND RELOCATE STOP BAR
UIP
W SOUTH ST.
S89°17'35"E
EXIST. R/W
EXIST. R/W
EXIST. CITY R/W
+40.10
75.01'
50' R/W
EXIST. CITY R/W
+90.98
75.01'
ARLINGTON BALLPARK WAY, LLC
NO ACQUISITION
SIGNATEL TELEPHONE CORP.
NO ACQUISITION

SCALE
0 10 20 30

SIDEWALK
CURB RAMP
APPROACH
TRUNCATED DOMES
REMOVALS
CONCRETE MEDIAN STRIP
L LANDING
R RAMP
S SIDEWALK
T TRANSITION

PLAN SHEET
CITY OF NEOSHO
SHEET 9 OF 9

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.
STATE OF MISSOURI
ROBERT B. GREEN
NUMBER PE-2009339
PROFESSIONAL ENGINEER

DATE PREPARED
3/3/2025
ROUTE VAR.
STATE MO
DISTRICT SW
SHEET NO. 17
COUNTY NEWTON
JOB NO. J7S3506
CONTRACT ID.
PROJECT NO.
BRIDGE NO.

DESCRIPTION
DATE

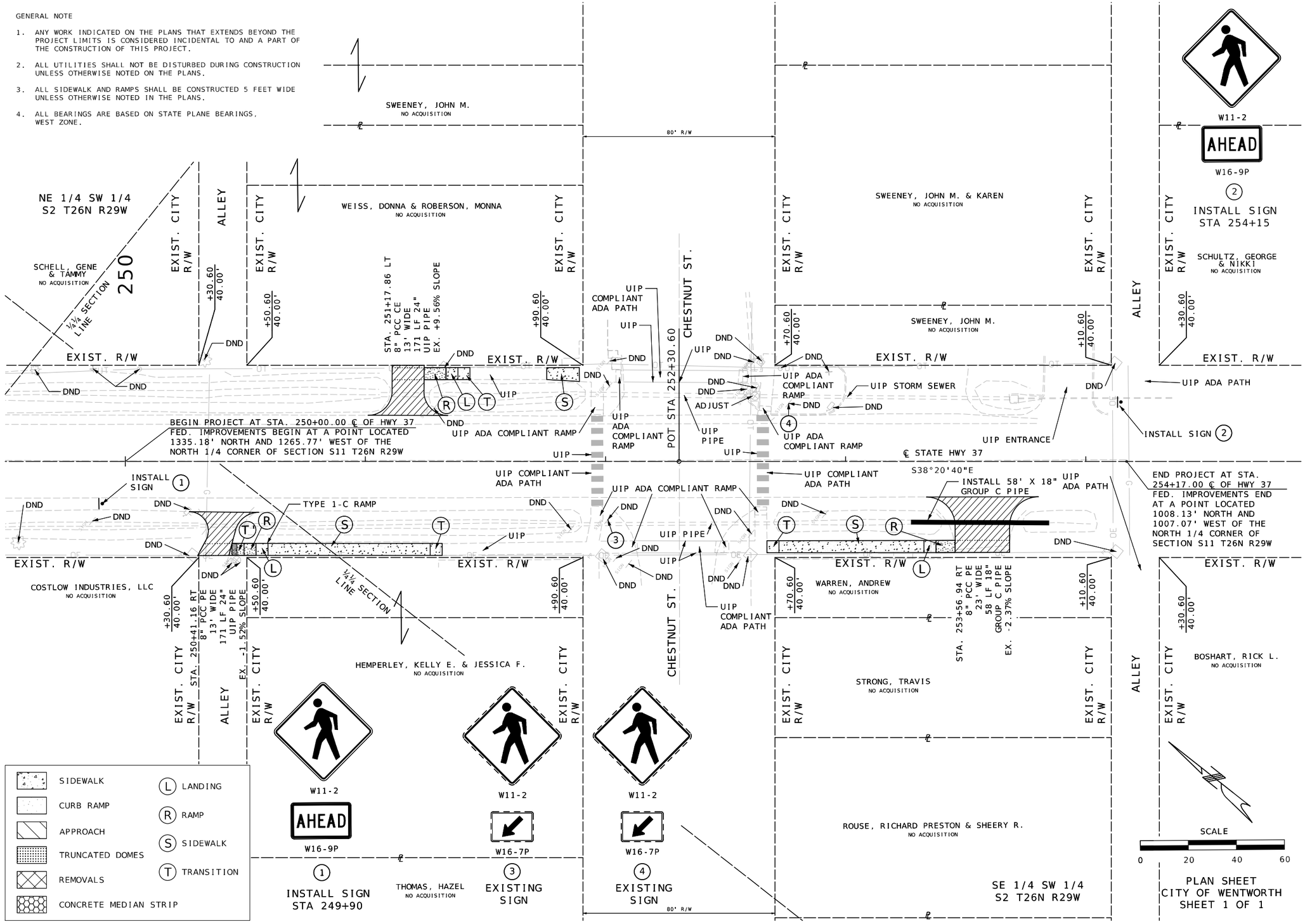
IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

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

Bartlett & West
601 MONROE ST. SUITE 201 - JEFFERSON CITY, MO 65101
PHONE 573-634-3181
CERTIFICATE OF AUTHORITY NO. 000167 - ENGINEERING
WWW.BARTLETTWEST.COM

GENERAL NOTE

1. ANY WORK INDICATED ON THE PLANS THAT EXTENDS BEYOND THE PROJECT LIMITS IS CONSIDERED INCIDENTAL TO AND A PART OF THE CONSTRUCTION OF THIS PROJECT.
2. ALL UTILITIES SHALL NOT BE DISTURBED DURING CONSTRUCTION UNLESS OTHERWISE NOTED ON THE PLANS.
3. ALL SIDEWALK AND RAMPS SHALL BE CONSTRUCTED 5 FEET WIDE UNLESS OTHERWISE NOTED IN THE PLANS.
4. ALL BEARINGS ARE BASED ON STATE PLANE BEARINGS, WEST ZONE.



STATE OF MISSOURI
ROBERT B. GREEN
NUMBER PE-2009
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

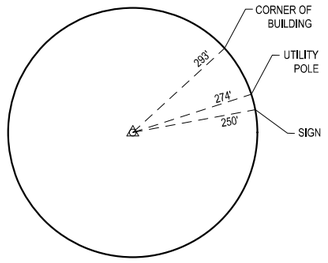
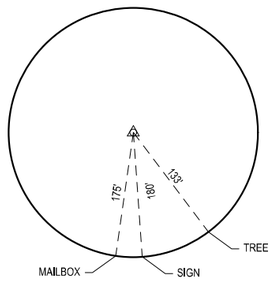
DATE PREPARED 3/3/2025
ROUTE VAR. | STATE MO
DISTRICT SW | SHEET NO. 18
COUNTY NEWTON
JOB NO. J7S3506
CONTRACT ID.
PROJECT NO.
BRIDGE NO.

DESCRIPTION	DATE

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

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

Bartlett & West
601 MONROE ST. SUITE 201 - JEFFERSON CITY, MO 65101
PHONE 573-634-3181
CERTIFICATE OF AUTHORITY NO. 000167 - ENGINEERING
WWW.BARTLETTWEST.COM

N  RP# 100 - SET 74 / CUT N: 237162.219 E: 2909285.078 ELEV. 1298.634	**N**  RP# 101 - SET 74 /5/8 ROD 2 AC N: 238118.319 E: 2910300.122 ELEV. 1283.105			

MISSOURI STATE PLANE COORDINATES WEST ZONE, NAD 1983
COORDINATES LISTED ARE STATE PLANE (GRID) PROJECT COORDINATES - U.S. SURVEY FEET
STATE PLANE (GRID) COORDINATES X 1.00009141 = MODIFIED GROUND COORDINATES

FAIRVIEW
REFERENCE POINTS
SHEET 1 OF 4

STATE OF MISSOURI
ROBERT B. GREEN
NUMBER PE-2533B
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED 3/3/2025

ROUTE	STATE
VAR.	MO
DISTRICT	SHEET NO.
SW	19

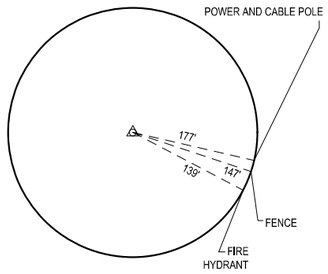
COUNTY NEWTON
JOB NO. J7S3506
CONTRACT ID.
PROJECT NO.
BRIDGE NO.

DESCRIPTION	DATE

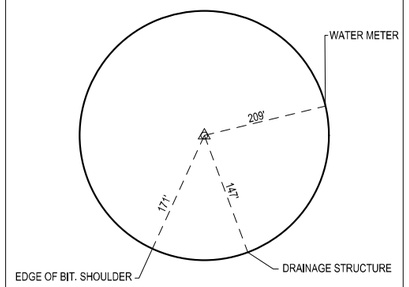
IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

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

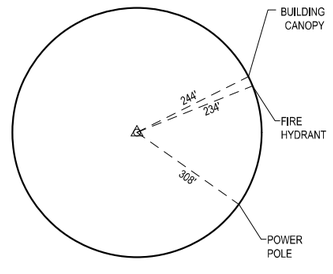
Bartlett & West
601 MONROE ST. SUITE 201 - JEFFERSON CITY, MO 65101
PHONE 573-634-3181
CERTIFICATE OF AUTHORITY NO. 000167 - ENGINEERING
WWW.BARTLETTWEST.COM



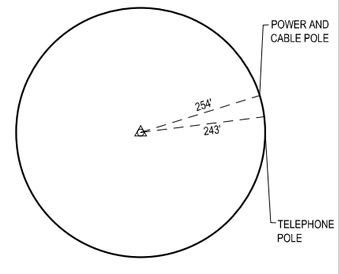
RP# 100 - SET 74 / MAG ASPH
N: 273987.210
E: 2859658.240
ELEV. 1118.960



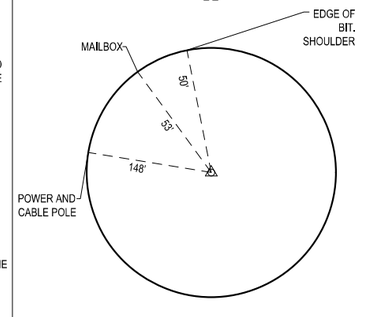
RP# 101 - SET 74 / 1/2 ROD
N: 274228.928
E:2860288.198
ELEV. 1127.507



RP# 102 - SET 74 / CUT
N: 274459.483
E: 2860254.731
ELEV. 1140.338



RP# 103 - 74 / 5/8 ROD 2 AC
N: 274022.049
E: 2860954.605
ELEV. 1159.407



RP# 104 - SET 74 / 60D NAIL
N: 274024.384
E: 2860226.786
ELEV. 1126.188

MISSOURI STATE PLANE COORDINATES WEST ZONE, NAD 1983
COORDINATES LISTED ARE STATE PLANE (GRID) PROJECT COORDINATES - U.S. SURVEY FEET
STATE PLANE (GRID) COORDINATES X 1.00009141 = MODIFIED GROUND COORDINATES

GRANBY
REFERENCE POINTS
SHEET 2 OF 4

STATE OF MISSOURI
ROBERT B. GREEN
NUMBER PE-2539
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED
3/3/2025

ROUTE	STATE
VAR.	MO
DISTRICT	SHEET NO.
SW	20

COUNTY
NEWTON

JOB NO.
J7S3506

CONTRACT ID.

PROJECT NO.

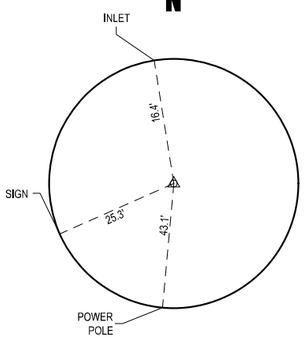
BRIDGE NO.

DESCRIPTION	DATE

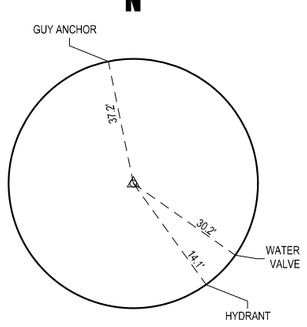
IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

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

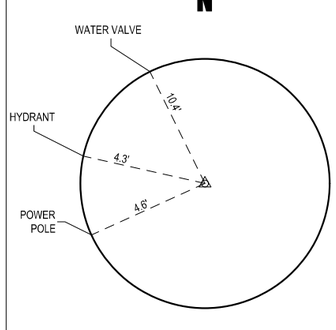
Bartlett & West
601 MONROE ST. SUITE 201 - JEFFERSON CITY, MO 65101
PHONE 573-634-3181
CERTIFICATE OF AUTHORITY NO. 000167 - ENGINEERING
WWW.BARTLETTWEST.COM



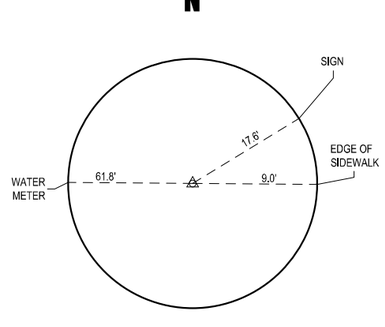
RP# 300 - SET 74 IRC
N: 258783.417
E: 2826849.440
ELEV. 1002.841



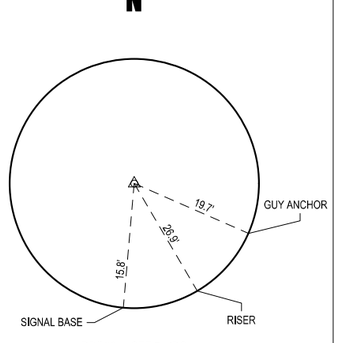
RP# 301 - SET 74 IRC
N: 257872.614
E: 2826843.630
ELEV. 1008.742



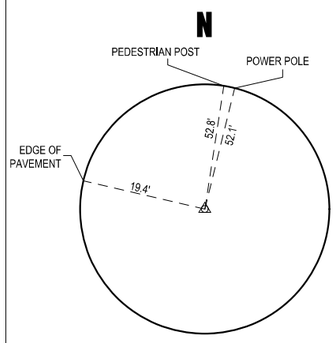
RP# 302 - SET 74 MAG
N: 257097.674
E: 2826831.472
ELEV. 1011.680



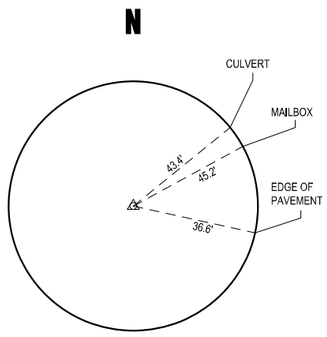
RP# 303 - SET 74 MAG
N: 257198.481
E: 2826060.783
ELEV. 1026.877



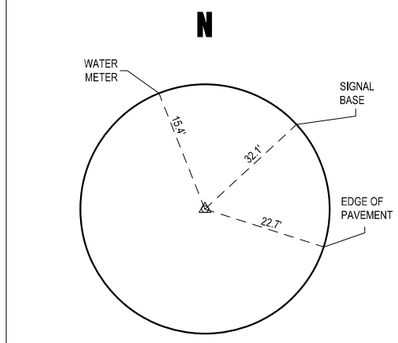
RP# 304 - SET 74 IRC
N: 251853.856
E: 2823158.279
ELEV. 1092.445



RP# 305 - SET 74 MAG
N: 251691.269
E: 2823126.300
ELEV. 1093.595



RP# 306 - SET 74 IRC
N: 253449.548
E: 2823485.974
ELEV. 1074.249



RP# 307 - SET 74 IRC
N: 253367.388
E: 2823451.604
ELEV. 1077.061

MISSOURI STATE PLANE COORDINATES WEST ZONE, NAD 1983
COORDINATES LISTED ARE STATE PLANE (GRID) PROJECT COORDINATES - U.S. SURVEY FEET
STATE PLANE (GRID) COORDINATES X 1.00009141 = MODIFIED GROUND COORDINATES

NEOSHO
REFERENCE POINTS
SHEET 3 OF 4

STATE OF MISSOURI
ROBERT B. GREEN
NUMBER PE-2009038
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

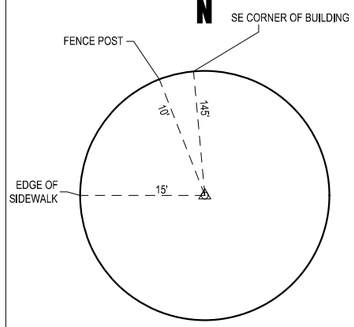
DATE PREPARED 3/3/2025
ROUTE VAR. | STATE MO
DISTRICT SW | SHEET NO. 21
COUNTY NEWTON
JOB NO. J7S3506
CONTRACT ID.
PROJECT NO.
BRIDGE NO.

NO.	DESCRIPTION	DATE

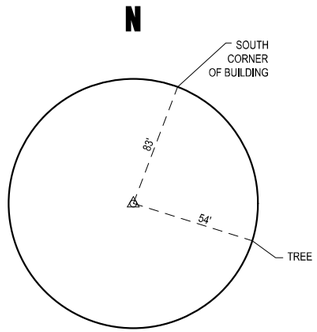
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
MoDOT
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

Bartlett & West
601 MONROE ST. SUITE 201 - JEFFERSON CITY, MO 65101
PHONE 573-634-3181
CERTIFICATE OF AUTHORITY NO. 000167 - ENGINEERING
WWW.BARTLETTWEST.COM

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.



RP# 100 - SET 1/2" 74 /MAG SHINER
N: 301025.993
E: 2913220.114
ELEV. 1224.001



RP# 101 - SET 74 /5/8 ROD 2 AC
N: 301690.089
E: 2912757.319
ELEV. 1218.624

MISSOURI STATE PLANE COORDINATES WEST ZONE, NAD 1983
COORDINATES LISTED ARE STATE PLANE (GRID) PROJECT COORDINATES - U.S. SURVEY FEET
STATE PLANE (GRID) COORDINATES X 1.00009141 = MODIFIED GROUND COORDINATES

WENTWORTH
REFERENCE POINTS
SHEET 4 OF 4

STATE OF MISSOURI
ROBERT B. GREEN
NUMBER PE-25339
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED 3/3/2025
ROUTE VAR. | STATE MO
DISTRICT SW | SHEET NO. 22
COUNTY NEWTON
JOB NO. J7S3506
CONTRACT ID.
PROJECT NO.
BRIDGE NO.

DESCRIPTION | DATE

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

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

Bartlett & West
601 MONROE ST. SUITE 201 - JEFFERSON CITY, MO 65101
PHONE 573-634-3181
CERTIFICATE OF AUTHORITY NO. 000167 - ENGINEERING
WWW.BARTLETTWEST.COM

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

PROJECT COORDINATE INFORMATION

COORDINATE SYSTEM	MISSOURI STATE PLANE, WEST ZONE
HORIZONTAL DATUM	NAD83
VERTICAL DATUM	NAVD88
GEOID MODEL	GEOID 18
ELEVATIONS DETERMINED BY	BARTLETT & WEST RAN OPUS SOLUTION FOR CONTROL POINT 100, AND HELD POINT 100 FOR HORIZONTAL AND VERTICAL CONTROL
PROJECT PROJECTION FACTOR	1.0000998

REFERENCE CONTROL INFORMATION

COORDINATE SYSTEM	MO COORDINATE SYSTEM OF 1983
CONTROL STATION	MISSOURI CORS
DESIGNATION	MODOT BRANSON CORS ARP
CORS_ID	MOBR
PID	DL6012
LATITUDE	N36°42'35.20127"
LONGITUDE	W93°13'23.59214"
NORTHING (M)	97491.157
EASTING (M)	435384.951
ZONE	MO CENTRAL
PROJECT AVERAGE GRID FACTOR	0.99990021

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 _____.____ X _.________ = N _____.___
E _____.____ X _.________ = E _____.___

LINEAR UNIT CONVERSION

1 METER = 3.280833333 US SURVEY FEET (USFT)

COORDINATE POINT LISTING

SHEET NO	STATION	LOCATION	OFFSET (USFT)	MODIFIED STATE PLANE (GROUND) NORTHING (US SURVEY FT)	EASTING (US SURVEY FT)	ELEVATION (US SURVEY FT)	DESCRIPTION	GPK POINT ID
PROJECT CONTROL POINTS								
N/A	N/A	RT	N/A	237162.219	2909285.078	1298.634'	74 / CUT	100
N/A	6+82.79	RT	155.06'	238118.319	2910300.122	1283.105'	74 / 5/8 ROD 2 AC	101
ALIGNMENTS								
N/A	0+00.00			238471.433	2910904.734		POINT OF INTERSECTION	P.I.
4	6+00.00			238061.614	2910466.501		BEGINNING OF PROJECT	B.P.
5	18+28.00			237222.852	2909569.583		END OF PROJECT	E.P.
5	18+28.00			237222.852	2909569.583		POINT OF INTERSECTION	P.I.

COORDINATE POINT SHEET
FAIRVIEW
SHEET 1 OF 4

STATE OF MISSOURI
ROBERT B. GREEN
NUMBER PE-2539
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED SEALED AND DATED ELECTRONICALLY.

DATE PREPARED 3/3/2025
ROUTE VAR. | STATE MO
DISTRICT SW | SHEET NO. 23
COUNTY NEWTON
JOB NO. J7S3506
CONTRACT ID.
PROJECT NO.
BRIDGE NO.

DESCRIPTION | DATE

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

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

Bartlett & West
601 MONROE ST. SUITE 201 - JEFFERSON CITY, MO 65101
PHONE 573-634-3181
CERTIFICATE OF AUTHORITY NO. 000167 - ENGINEERING
WWW.BARTLETTWEST.COM

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

PROJECT COORDINATE INFORMATION

COORDINATE SYSTEM	MISSOURI STATE PLANE, WEST ZONE
HORIZONTAL DATUM	NAD83
VERTICAL DATUM	NAVD88
GEOID MODEL	GEOID 18
ELEVATIONS DETERMINED BY	BARTLETT & WEST RAN OPUS SOLUTION FOR CONTROL POINT 100, AND HELD POINT 100 FOR HORIZONTAL AND VERTICAL CONTROL
PROJECT PROJECTION FACTOR	1.0001020

REFERENCE CONTROL INFORMATION

COORDINATE SYSTEM	MO COORDINATE SYSTEM OF 1983
CONTROL STATION	MISSOURI CORS
DESIGNATION	CRAFTON TULL COOP CORS ARP
CORS_ID	CTA1
PID	DG9661
LATITUDE	N36°20'37.34561"
LONGITUDE	W94°10'48.00236"
NORTHING (M)	225210.082
EASTING (M)	204310.907
ZONE	ARKANSAS NORTH
PROJECT AVERAGE GRID FACTOR	0.99989801

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 _____.____ X _.________ = N _____.___
E _____.____ X _.________ = E _____.___

LINEAR UNIT CONVERSION

1 METER = 3.280833333 US SURVEY FEET (USFT)

COORDINATE POINT LISTING

SHEET NO	STATION	LOCATION	OFFSET (USFT)	MODIFIED STATE PLANE (GROUND) NORTHING (US SURVEY FT)	EASTING (US SURVEY FT)	ELEVATION (US SURVEY FT)	DESCRIPTION	GPK POINT ID
PROJECT CONTROL POINTS								
N/A	900+50.23	LT	159.75'	273987.210	2859658.240	1118.960	74 / MAG ASPH	100
N/A	287+58.89	RT	252.86'	274228.928	2860288.198	1127.507	74 / ½ ROD	101
N/A	285+25.92	RT	253.16'	274459.483	2860254.731	1140.338	74/ CUT	102
N/A	913+05.43	RT	54.23'	274022.049	2860954.605	1159.407	74 / ⅝ ROD 2 AC	103
N/A	905+68.42	RT	27.48'	274024.384	2860226.786	1126.188	74 / 60D NAIL	104
ALIGNMENTS								
US 60 - E VALLEY ST								
N/A	897+97.60			273697.783	2859546.401		POINT OF INTERSECTION	P.I.
6	901+50.00			273904.510	2859830.700		BEGINNING OF PROJECT	B.P.
N/A	909+00.10			274083.560	2860550.218		POINT OF TANGENCY	P.T.
7	289+14.40			274083.302	2860564.615		INTERSECTION WITH ROUTE E	P.I.
7	916+00.00			274070.981	2861250.105		END OF PROJECT	E.P.
7	916+00.00			274070.981	2861250.105		POINT OF INTERSECTION	P.I.
ROUTE E - N MAIN ST.								
N/A	270+00.00			276020.339	2860538.948		POINT OF INTERSECTION	P.I.
8	284+20.00			274600.950	2860498.890		BEGINNING OF PROJECT	B.P.
8	284+76.40			274544.574	2860498.215		POINT OF TANGENCY	P.T.
8	288+00.00			274224.250	2860544.337		END OF PROJECT	E.P.
N/A	289+42.40			274083.302	2860564.615		POINT OF INTERSECTION	P.I.

COORDINATE POINT SHEET
GRANBY
SHEET 2 OF 4

STATE OF MISSOURI
ROBERT B. GREEN
NUMBER PE-2539
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED 3/3/2025
ROUTE VAR. | STATE MO
DISTRICT SW | SHEET NO. 24
COUNTY NEWTON
JOB NO. J7S3506
CONTRACT ID.
PROJECT NO.
BRIDGE NO.

DESCRIPTION | DATE

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

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

Bartlett & West
601 MONROE ST. SUITE 201 - JEFFERSON CITY, MO 65101
PHONE 573-634-3181
CERTIFICATE OF AUTHORITY NO. 000167 - ENGINEERING
WWW.BARTLETTWEST.COM

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

PROJECT COORDINATE INFORMATION

COORDINATE SYSTEM	MISSOURI STATE PLANE, WEST ZONE
HORIZONTAL DATUM	NAD83
VERTICAL DATUM	NAVD88
GEOID MODEL	GEOID 12B
ELEVATIONS DETERMINED BY	CIVIL DESIGN, INC. RAN OPUS SOLUTION FOR CONTORL POINT 100, AND HELD POINT 100 FOR HORIZONTAL AND VERTICAL CONTROL
PROJECT PROJECTION FACTOR	1.000102682

REFERENCE CONTROL INFORMATION

COORDINATE SYSTEM	MO COORDINATE SYSTEM OF 1983
CONTROL STATION	MISSOURI CORS
DESIGNATION	MODOT ANDERSON CORS ARP
CORS_ID	MOA2
PID	DN6071
LATITUDE	N36°41'03.39420"
LONGITUDE	W94°26'18.24765"
NORTHING (M)	57435.916
EASTING (M)	855505.193
ZONE	MO CENTRAL
PROJECT AVERAGE GRID FACTOR	0.99990061

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 _____.____ X _.________ = N _____.___
E _____.____ X _.________ = E _____.___

LINEAR UNIT CONVERSION

1 METER = 3.280833333 US SURVEY FEET (USFT)

COORDINATE POINT LISTING

SHEET NO	STATION	LOCATION	OFFSET (USFT)	MODIFIED STATE PLANE (GROUND) NORTHING (US SURVEY FT)	EASTING (US SURVEY FT)	ELEVATION (US SURVEY FT)	DESCRIPTION	GPK POINT ID
PROJECT CONTROL POINTS								
N/A	55+01.60	RT	33.53'	258783.417	2826849.440	1002.841	74 IRC	300
N/A	45+90.54	RT	39.03'	257872.614	2826843.630	1008.742	74 IRC	301
12	38+42.41	RT	45.68'	257097.674	2826831.472	1011.680	74 MAG	302
11	31+01.79	LT	31.24'	257198.481	2826060.783	1026.877	74 MAG	303
17	39+61.53	LT	49.36'	251853.856	2823158.279	1092.445	74 IRC	304
17	41+28.01	LT	55.60'	251691.269	2823126.300	1093.595	74 MAG	305
16	23+34.97	RT	48.36'	253449.548	2823485.974	1074.249	74 IRC	306
16	24+23.31	RT	60.00'	253367.388	2823451.604	1077.061	74 IRC	307
ALIGNMENTS								
BUSINESS 60 - COLER ST.								
9	20+50.17			257191.742	2825014.751		POINT OF INTERSECTION	P.I.
9	20+50.17			257191.742	2825014.751		BEGINNING OF PROJECT	B.P.
11	30+27.58			257177.863	2825992.063		POINT OF TANGENCY	P.T.
11	31+27.59			257162.889	2826090.944		POINT OF TANGENCY	P.T.
11	32+29.10			257147.690	2826191.312		POINT OF TANGENCY	P.T.
12	38+42.41			257124.088	2826804.165		POINT OF TANGENCY	P.T.
12	38+42.41			257124.088	2826804.165		INTERSECTION WITH COLLEGE ST	P.I.
12	38+42.41			257124.088	2826804.165		STA. EQUATION BACK	B.K.
12	38+42.74			257124.088	2826804.165		STA. EQUATION AHEAD	A.H.
13	42+04.60			257485.851	2826812.857		STA. EQUATION BACK	B.K.
13	42+08.00			257485.851	2826812.857		STA. EQUATION AHEAD	A.H.
13	42+66.77			257544.574	2826814.267		POINT OF TANGENCY	P.T.
13	45+00.00			257777.802	2826815.714		END OF PROJECT	E.P.
N/A	45+70.52			257848.318	2826816.152		STA. EQUATION BACK	B.K.
N/A	45+68.00			257848.318	2826816.152		STA. EQUATION AHEAD	A.H.
N/A	49+30.61			258210.925	2826818.402		STA. EQUATION BACK	B.K.
N/A	49+30.00			258210.925	2826818.402		STA. EQUATION AHEAD	A.H.
N/A	51+35.03			258415.952	2826819.674		POINT OF TANGENCY	P.T.
N/A	56+88.76			258969.546	2826831.673		POINT OF INTERSECTION	P.I.
N/A	61+50.69			259728.247	2826849.951		POINT OF INTERSECTION	P.I.
14	67+00.00			260277.473	2826859.763		BEGINNING OF PROJECT	B.P.
14	73+00.00			260877.378	2826870.481		END OF PROJECT	E.P.
N/A	76+92.69			261270.001	2826877.495		POINT OF TANGENCY	P.T.
N/A	92+34.69			262811.755	2826905.040		POINT OF INTERSECTION	P.I.
BUSINESS 60 - S NEOSHO BLVD								
14	0+00.00			255734.945	2823840.851		POINT OF INTERSECTION	P.I.
14	0+00.00			255734.945	2823840.851		BEGINNING OF PROJECT	B.P.
N/A	9+17.38			254817.687	2823825.703		POINT OF CURVATURE	P.C.
N/A	16+29.16			254114.761	2823726.127		POINT OF TANGENCY	P.T.
N/A	36+65.10			252152.684	2823193.794		POINT OF CURVATURE	P.C.
17	41+50.00			251682.160	2823076.760		END OF PROJECT	E.P.
N/A	43+68.48			251468.628	2823030.560		POINT OF TANGENCY	P.T.
N/A	53+87.41			250470.726	2822824.576		POINT OF INTERSECTION	P.I.

COORDINATE POINT SHEET
NEOSHO
SHEET 3 OF 4

STATE OF MISSOURI
ROBERT B. GREEN
NUMBER PE-2539
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED 3/3/2025
ROUTE VAR. | STATE MO
DISTRICT SW | SHEET NO. 25
COUNTY NEWTON
JOB NO. J7S3506
CONTRACT ID.
PROJECT NO.
BRIDGE NO.

DESCRIPTION | DATE

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

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

Bartlett & West
601 MONROE ST. SUITE 201 - JEFFERSON CITY, MO 65101
PHONE 573-634-3181
CERTIFICATE OF AUTHORITY NO. 000167 - ENGINEERING
WWW.BARTLETTWEST.COM

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

PROJECT COORDINATE INFORMATION

COORDINATE SYSTEM	MISSOURI STATE PLANE, WEST ZONE
HORIZONTAL DATUM	NAD83
VERTICAL DATUM	NAVD88
GEOID MODEL	GEOID 18
ELEVATIONS DETERMINED BY	BARTLETT & WEST RAN OPUS SOLUTION FOR CONTROL POINT 100, AND HELD POINT 100 FOR HORIZONTAL AND VERTICAL CONTROL
PROJECT PROJECTION FACTOR	1.0000951

REFERENCE CONTROL INFORMATION

COORDINATE SYSTEM	MO COORDINATE SYSTEM OF 1983
CONTROL STATION	MISSOURI CORS
DESIGNATION	MODOT CASSVILLE CORS ARP
CORS_ID	MOCS
PID	DM3513
LATITUDE	N36°36'48.21000"
LONGITUDE	W93°54'20.35560"
NORTHING (M)	53431.816
EASTING (M)	903144.594
ZONE	MO CENTRAL
PROJECT AVERAGE GRID FACTOR	0.999904909

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 _____.____ X _.________ = N _____.___
E _____.____ X _.________ = E _____.___

LINEAR UNIT CONVERSION

1 METER = 3.280833333 US SURVEY FEET (USFT)

COORDINATE POINT LISTING

SHEET NO	STATION	LOCATION	OFFSET (USFT)	MODIFIED STATE PLANE (GROUND) NORTHING (US SURVEY FT)	EASTING (US SURVEY FT)	ELEVATION (US SURVEY FT)	DESCRIPTION	GPK POINT ID
PROJECT CONTROL POINTS								
N/A	N/A	RT	N/A	301025.993	2913220.114	1224.001	74 MAG SHINER	100
N/A	N/A	RT	252+82.83	301690.089	2912757.319	1218.624	74 5/8 ROD 2 AC	101
ALIGNMENTS								
N/A	245+10.60			301793.667	2912943.653		POINT OF INTERSECTION	P.I.
18	250+00.00			301409.833	2913247.271		BEGINNING OF PROJECT	B.P.
18	252+30.60			301228.974	2913390.332		POINT OF TANGENCY	P.T.
18	254+17.00			301082.780	2913505.970		END OF PROJECT	E.P.
N/A	261+70.60			300491.736	2913973.495		POINT OF INTERSECTION	P.I.

COORDINATE POINT SHEET
WENTWORTH
SHEET 4 OF 4

STATE OF MISSOURI
ROBERT B. GREEN
NUMBER PE-25339
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED SEALED AND DATED ELECTRONICALLY.

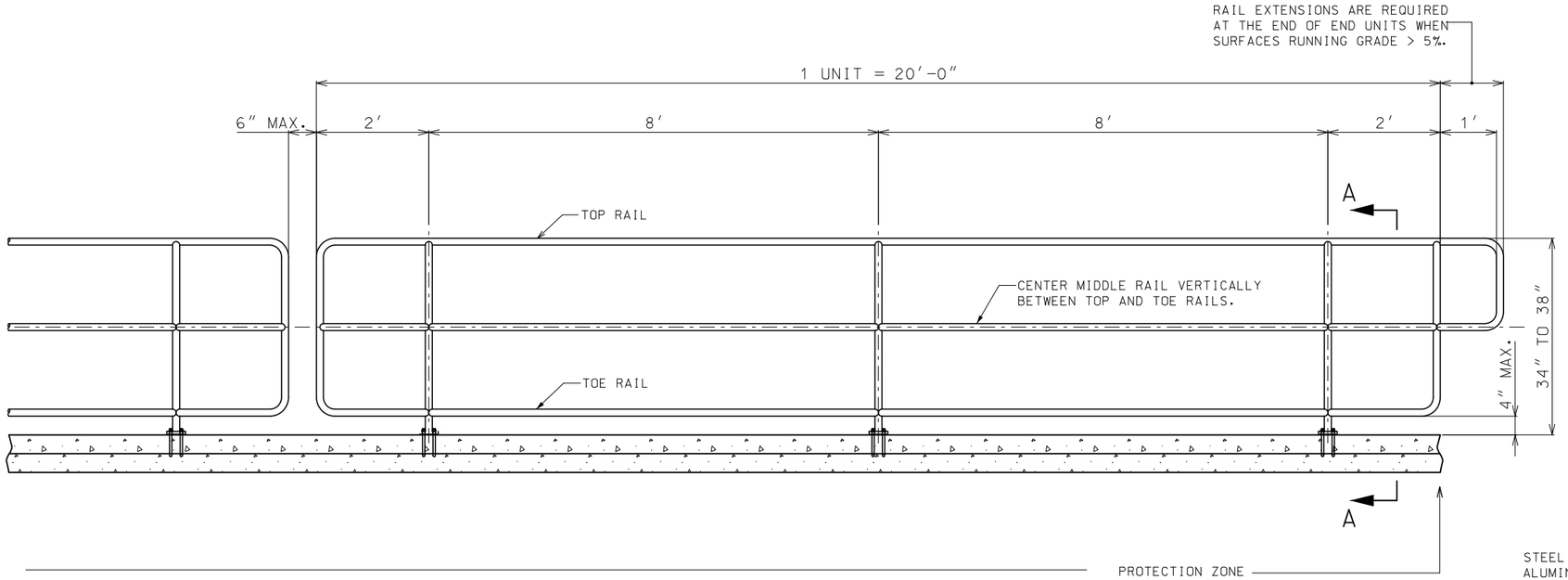
DATE PREPARED 3/3/2025
ROUTE VAR. | STATE MO
DISTRICT SW | SHEET NO. 26
COUNTY NEWTON
JOB NO. J7S3506
CONTRACT ID.
PROJECT NO.
BRIDGE NO.

DESCRIPTION | DATE

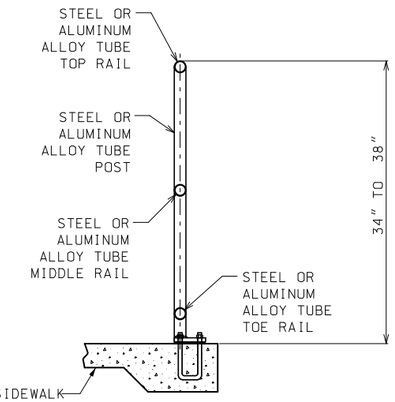
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

Bartlett & West
601 MONROE ST. SUITE 201 - JEFFERSON CITY, MO 65101
PHONE 573-634-3181
CERTIFICATE OF AUTHORITY NO. 000167 - ENGINEERING
WWW.BARTLETTWEST.COM

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

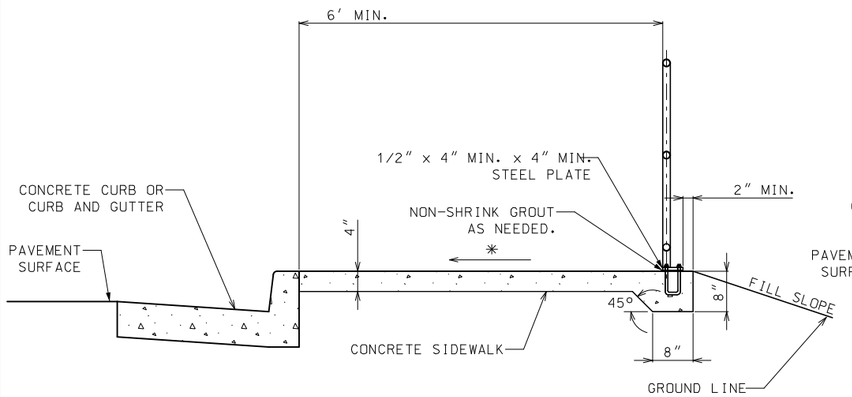


SIDEWALK HANDRAILING WITHOUT BALUSTERS

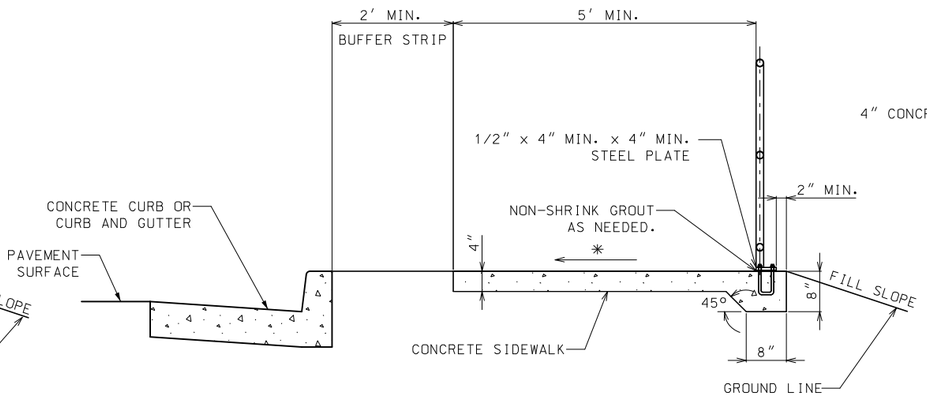


HANDRAILING

✳ CROSS SLOPE: 1.0 % MIN. – 2.0 % MAX.



SIDEWALK WITHOUT BUFFER STRIP
(SECTION A–A)



SIDEWALK WITH BUFFER STRIP
(SECTION A–A)

FOR GENERAL NOTES AND HANDRAILING REQUIREMENTS ON FILL SLOPES SEE SHEET 3 OF 4

NOT TO SCALE

SPECIAL SHEET
SHEET 1 OF 13

STATE OF MISSOURI
ROBERT B. GREEN
NUMBER PE-25339
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED
3/3/2025

ROUTE	STATE
VAR.	MO
DISTRICT	SHEET NO.
SW	27

COUNTY
NEWTON

JOB NO.
J7S3506

CONTRACT ID.

PROJECT NO.

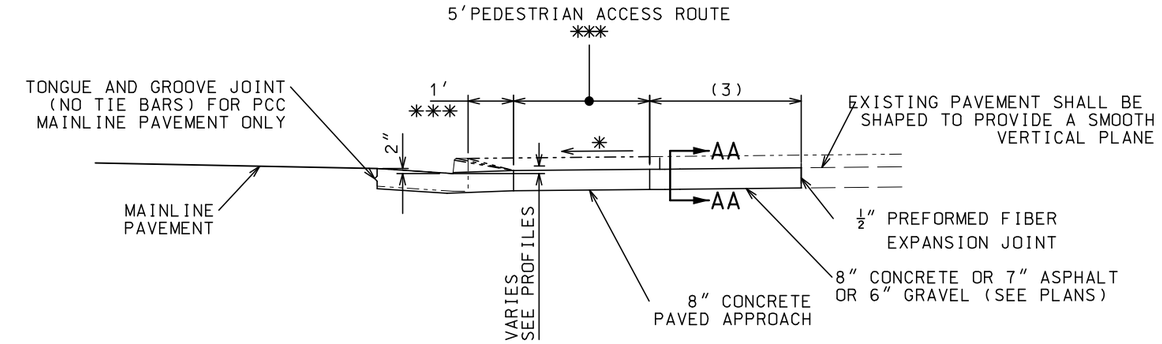
BRIDGE NO.

DESCRIPTION	DATE

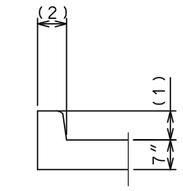
IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

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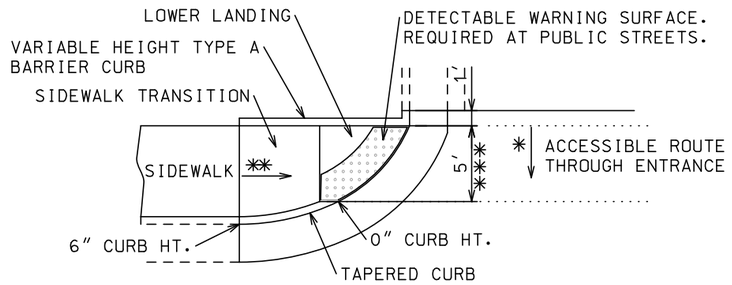


SECTION A–A

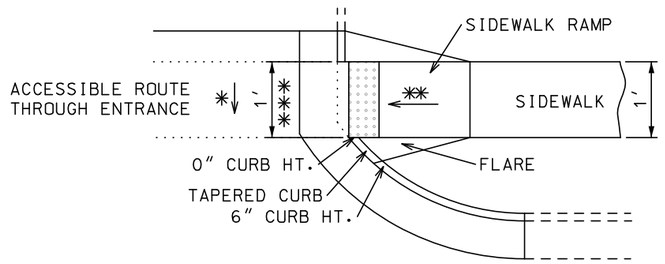


TYPE B (BARRIER)

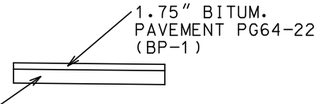
SECTION B–B



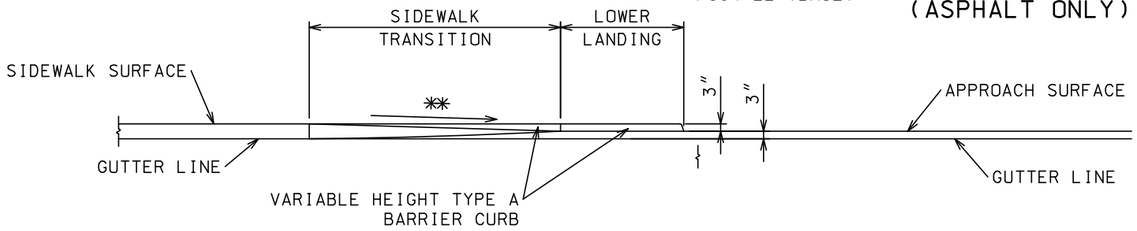
DETAIL A



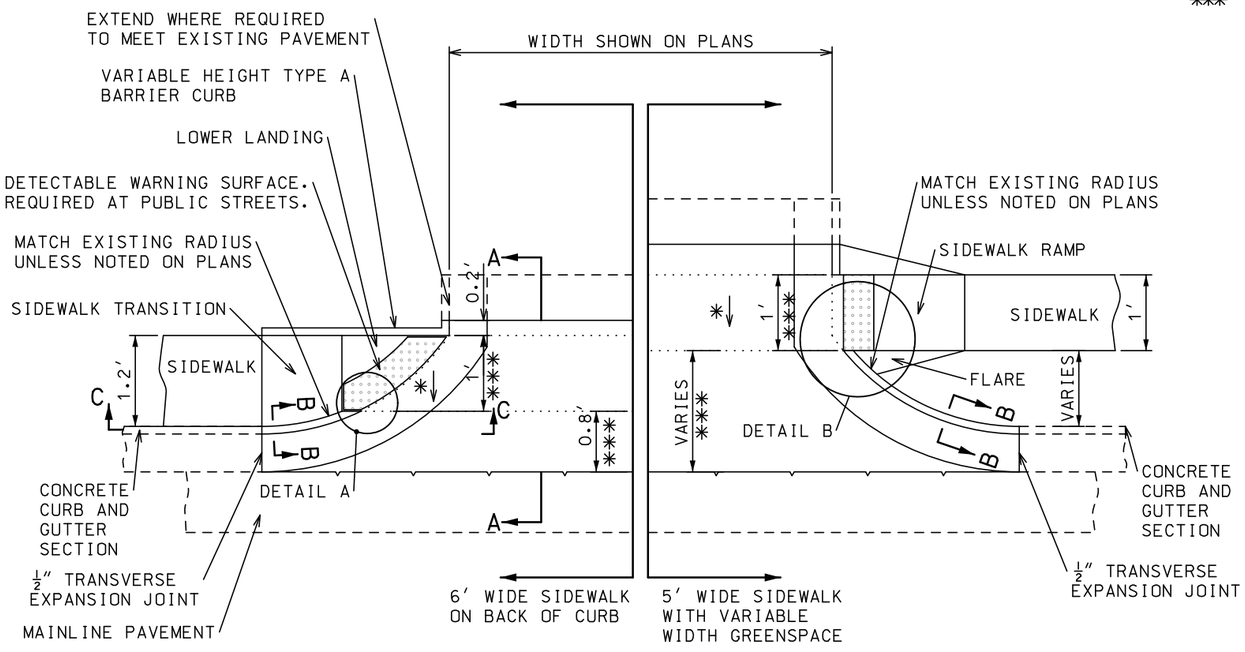
DETAIL B



SECTION AA–AA (ASPHALT ONLY)



SECTION C–C



(SEE PLAN SHEETS FOR LOCATION OF SIDEWALK RELATIVE TO THE CURB)

PLAN OF NON-SIGNALIZED SIDE STREET APPROACHES

* THE CROSS SLOPE OF THE CONTINUOUS PEDESTRIAN ACCESS ROUTE SHALL BE 1.00% TO FACILITATE DRAINAGE (2.00% MAX.).

** SIDEWALK TRANSITION 5.00% MAXIMUM SLOPE.

*** ACCESSIBLE ROUTE THROUGH ENTRANCE. NOTE THAT THE DIMENSIONS SHOWN ON THIS SHEET ARE DESIRED. HOWEVER, EXISTING DRIVEWAYS WITH STEEPER GRADES MAY REQUIRE A 4′ WIDE PEDESTRIAN ROUTE IN ORDER TO KEEP GRADE BREAKS TO A MINIMUM. REFER TO DRIVEWAY SECTIONS FOR FINAL DIMENSIONS AT EACH DRIVEWAY.

(1) 6″ – EXCEPT WHERE VARIED TO MEET EXISTING IMPROVEMENTS.
(2) 6″ – EXCEPT WHERE VARIED TO MEET EXISTING IMPROVEMENTS.
(3) EXTEND WHERE REQUIRED TO MEET EXISTING PAVEMENT.

GENERAL NOTES:

WHERE PAVED APPROACH MEETS EXISTING CONCRETE PAVEMENT OR SIDEWALK, PLACE ½″ PREFORMED FIBER EXPANSION JOINT, CUT TO TEMPLATE, THROUGH NEW CONCRETE AND 1′ FROM JUNCTION WITH EXISTING CONCRETE, OR ALONG INSIDE EDGE OF SIDEWALK. WHERE PAVED APPROACH MEETS EXISTING BITUMINOUS CONSTRUCTION, OMIT JOINT.

SEE STANDARD PLAN 502.05 FOR TYPE AND LOCATION OF CONCRETE PAVEMENT JOINTS.

SEE STANDARD PLAN 609.00 FOR TRANSVERSE EXPANSION JOINT DETAILS.

IF SIDEWALKS ARE NOT INCLUDED IN CONSTRUCTION OF PAVED APPROACH, PLACE GROUND COVER, AS SHOWN ON PLANS, BEHIND CURB THROUGH RADIUS. GROUND COVER SHALL CONFORM TO FINISHED GRADING FOR CURB RAMP.

HAND FINISHING PERMITTED ON PAVED APPROACH.

THE APPROACH GRADE THROUGH THE LIMITS OF A SIDEWALK SHALL NOT EXCEED 2.00%.

SEE STANDARD PLAN 608.00 FOR PAVED APPROACH JOINT DETAILS.

VARIABLE HEIGHT TYPE A BARRIER CURB SHALL BE CONSTRUCTED ACCORDING TO STANDARD PLANS. PAID FOR PER SQUARE YARD ON CONCRETE CURB RAMP

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

NOT TO SCALE

STATE OF MISSOURI
ROBERT B. GREEN
NUMBER PE-25339
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

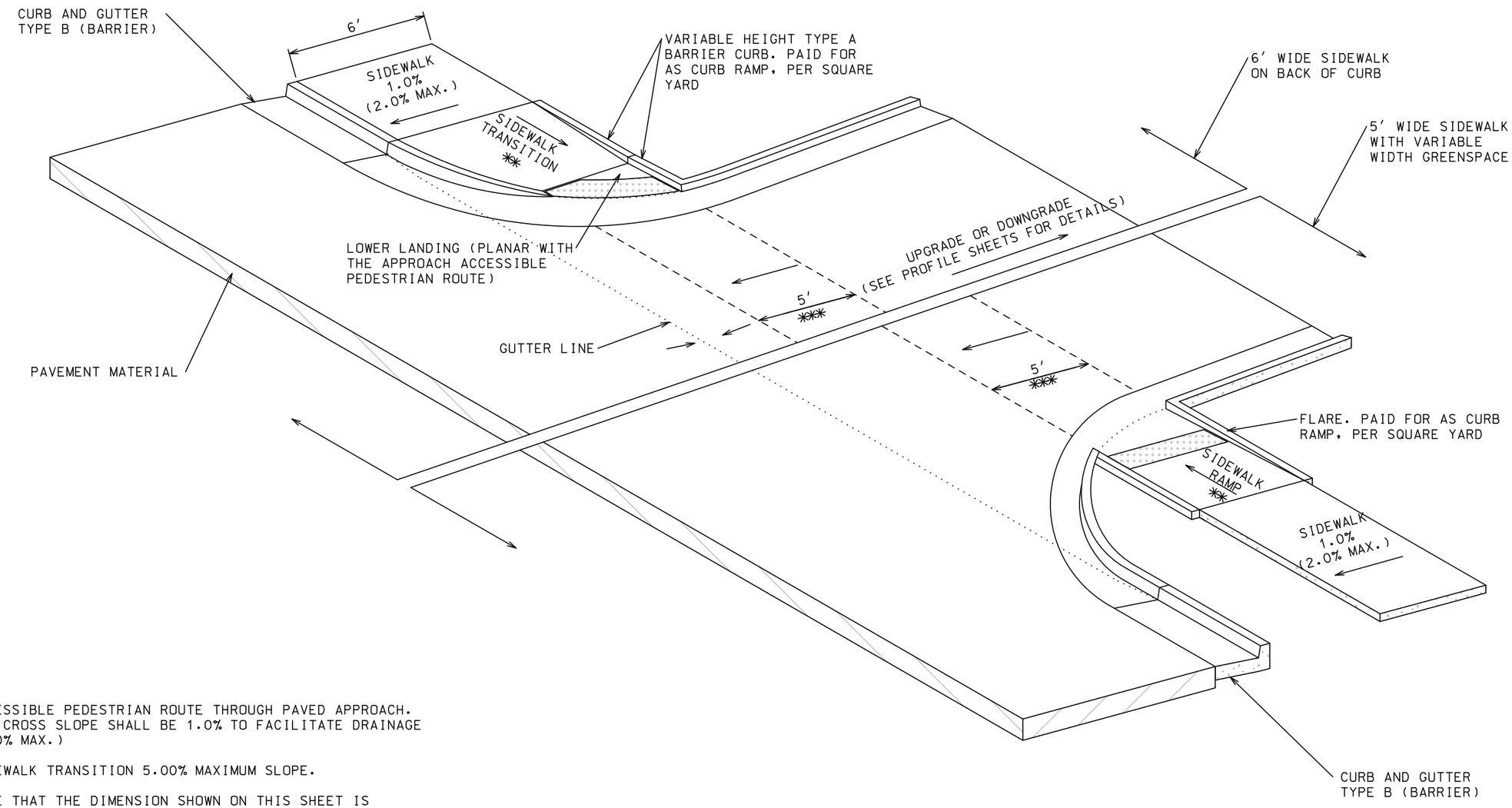
DATE PREPARED 3/3/2025
ROUTE VAR. | STATE MO
DISTRICT SW | SHEET NO. 28
COUNTY NEWTON
JOB NO. J7S3506
CONTRACT ID.
PROJECT NO.
BRIDGE NO.

DESCRIPTION | DATE

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

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

Bartlett & West
601 MONROE ST. SUITE 201 - JEFFERSON CITY, MO 65101
PHONE 573-634-3181
CERTIFICATE OF AUTHORITY NO. 000167 - ENGINEERING
WWW.BARTLETTWEST.COM



* ACCESSIBLE PEDESTRIAN ROUTE THROUGH PAVED APPROACH. THE CROSS SLOPE SHALL BE 1.0% TO FACILITATE DRAINAGE (2.0% MAX.)

** SIDEWALK TRANSITION 5.00% MAXIMUM SLOPE.

*** NOTE THAT THE DIMENSION SHOWN ON THIS SHEET IS DESIRED. HOWEVER, EXISTING DRIVEWAYS WITH STEEPER GRADES MAY REQUUIRE A 4' WIDE PEDESTRIAN ROUTE IN ORDER TO KEEP GRADE BREAKS TO A MINIMUM. REFER TO DRIVEWAY SECTIONS FOR FINAL DIMENSIONS AT EACH DRIVEWAY.

DISCLAIMER
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(SEE PLAN SHEETS FOR LOCATION OF SIDEWALK RELATIVE TO THE CURB)

ISOMETRIC VIEW
NON-SIGNALIZED SIDE STREET APPROACHES

NOT TO SCALE

STATE OF MISSOURI
ROBERT B. GREEN
NUMBER PE-25339
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED 3/3/2025

ROUTE	STATE
VAR.	MO
DISTRICT	SHEET NO.
SW	29

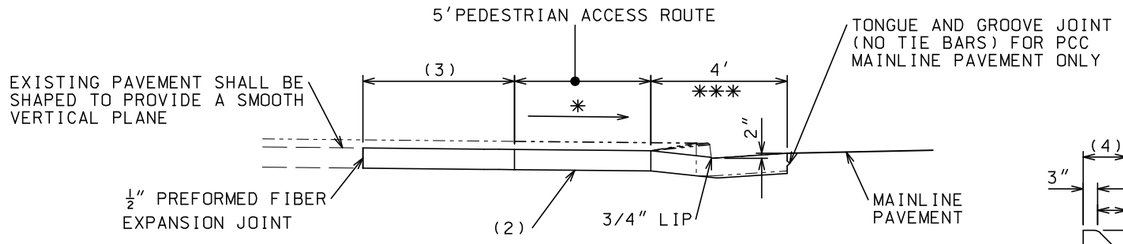
COUNTY: NEWTON
JOB NO.: J7S3506
CONTRACT ID.:
PROJECT NO.:
BRIDGE NO.:

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

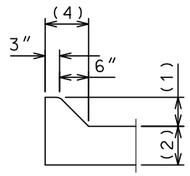
DESCRIPTION	DATE

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

Bartlett & West
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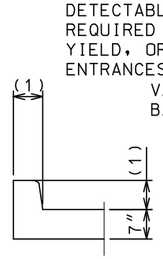


SECTION A–A



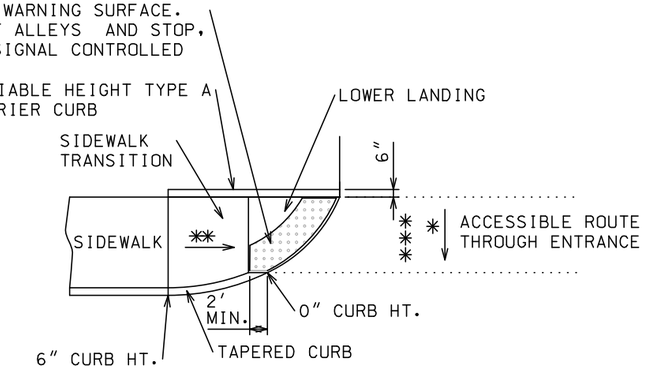
TYPE A
(MOUNTABLE)

SECTION B–B

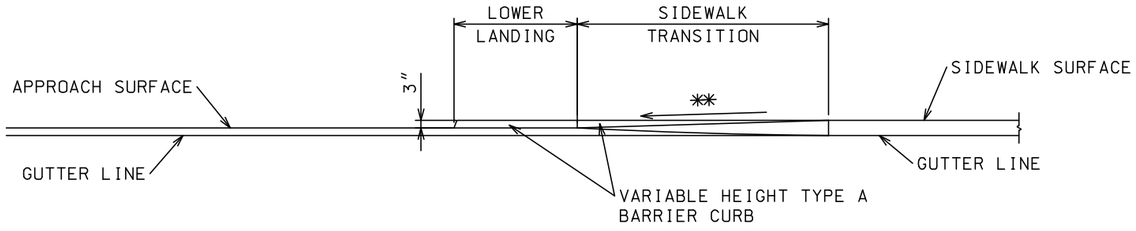


TYPE B
(BARRIER)

SECTION B–B



DETAIL A



SECTION C–C

* THE CROSS SLOPE OF THE CONTINUOUS PEDESTRIAN ACCESS ROUTE SHALL BE 1.0% TO FACILITATE DRAINAGE (2.00% MAX.).

** SIDEWALK TRANSITION 5% MAXIMUM SLOPE

*** NOTE THAT THE DIMENSIONS SHOWN ON THIS SHEET ARE DESIRED. HOWEVER, EXISTING DRIVEWAYS WITH STEEPER GRADES MAY REQUIRE A 4' WIDE PEDESTRIAN ROUTE IN ORDER TO KEEP GRADE BREAKS TO A MINIMUM. REFER TO DRIVEWAY SECTIONS FOR FINAL DIMENSIONS AT EACH DRIVEWAY.

(1) 6" – EXCEPT WHERE VARIED TO MEET EXISTING IMPROVEMENTS.
(2) 8" NRCCP – FOR ALLEY OR COMMERCIAL APPROACHES.
7" NRCCP – FOR RESIDENTIAL APPROACHES.
(3) EXTEND WHERE REQUIRED TO MEET EXISTING PAVEMENT.
(4) 9" – EXCEPT WHERE VARIED TO MEET EXISTING IMPROVEMENTS.
(5) 2.5' WHEN ADJACENT EXISTING CURB AND GUTTER IS TYPE B, 2.75' WHEN TYPE A.

GENERAL NOTES:

WHERE PAVED APPROACH MEETS EXISTING CONCRETE PAVEMENT OR SIDEWALK, PLACE ½" PREFORMED FIBER EXPANSION JOINT, CUT TO TEMPLATE, THROUGH NEW CONCRETE AND 1' FROM JUNCTION WITH EXISTING CONCRETE, OR ALONG INSIDE EDGE OF SIDEWALK. WHERE PAVED APPROACH MEETS EXISTING BITUMINOUS CONSTRUCTION, OMIT JOINT.

SEE STANDARD PLAN 502.05 FOR TYPE AND LOCATION OF CONCRETE PAVEMENT JOINTS.

SEE STANDARD PLAN 609.00 FOR TRANSVERSE EXPANSION JOINT DETAILS.

WHERE DRAINAGE IS NOT TO BE CARRIED ACROSS THE PAVED APPROACH, SECTION A–A SHALL BE MODIFIED TO ELIMINATE THE "LIP" AND SHALL BE CROWNED AS DIRECTED BY THE ENGINEER.

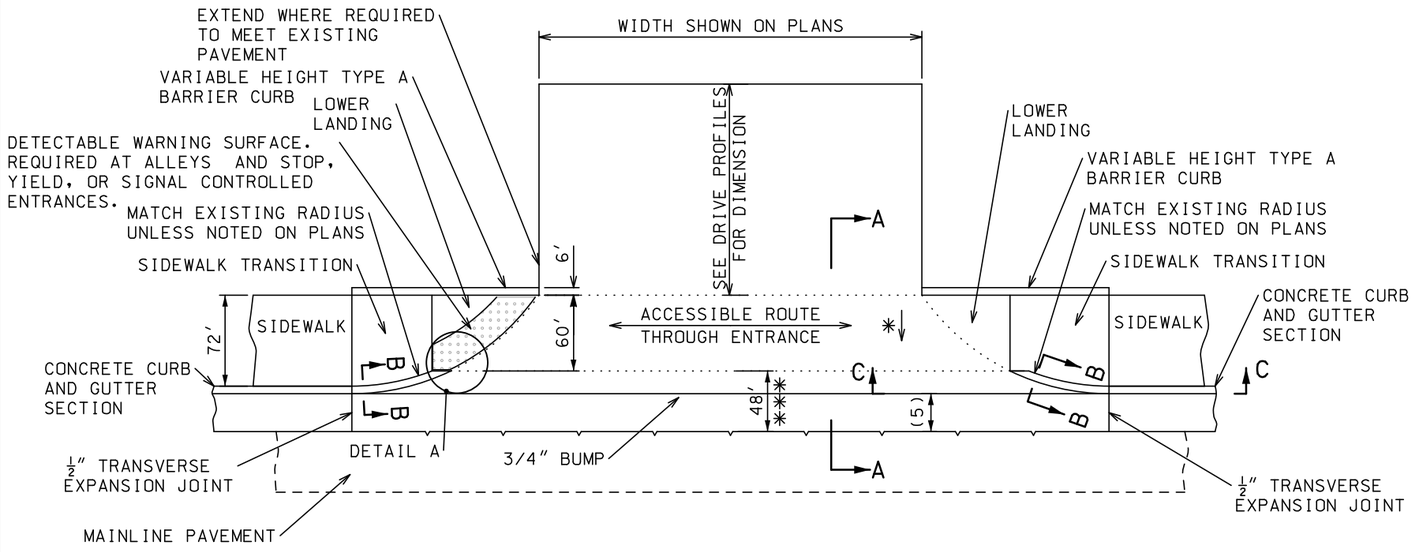
IF SIDEWALKS ARE NOT INCLUDED IN CONSTRUCTION OF PAVED APPROACH, PLACE GROUND COVER, AS SHOWN ON PLANS, BEHIND CURB THROUGH RADIUS. GROUND COVER SHALL CONFORM TO FINISHED GRADING FOR CURB RAMP.

HAND FINISHING PERMITTED ON PAVED APPROACH.

THE APPROACH GRADE THROUGH THE LIMITS OF A SIDEWALK SHALL NOT EXCEED 2.00%.

SEE STANDARD PLAN 608.00 FOR PAVED APPROACH JOINT DETAILS.

VARIABLE HEIGHT TYPE A BARRIER CURB SHALL BE CONSTRUCTED ACCORDING TO STANDARD PLANS. PAID FOR PER SQUARE YARD ON CONCRETE CURB RAMP



PLAN OF ALLEYS, COMMERCIAL OR RESIDENTIAL APPROACHES WITH 6' SIDEWALKS

STATE OF MISSOURI
ROBERT B. GREEN
NUMBER PE-25339
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

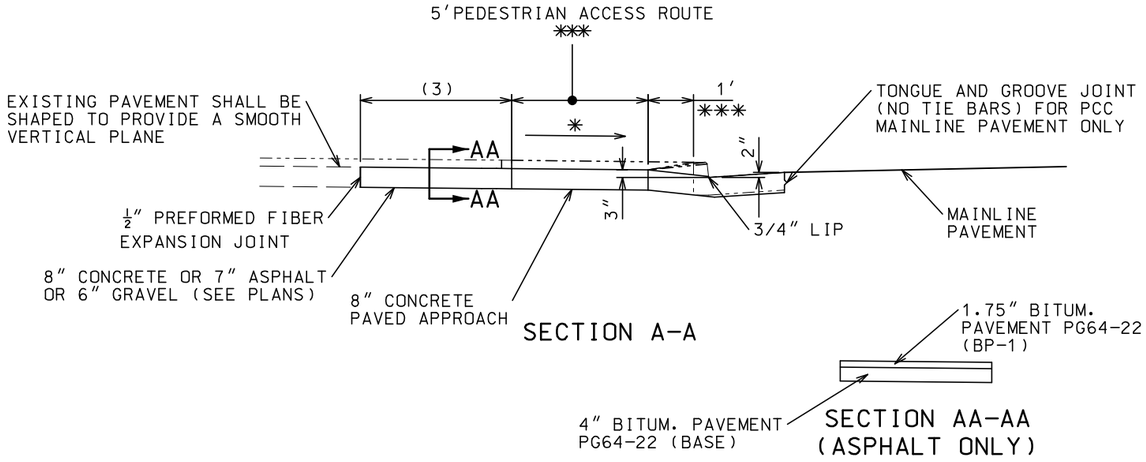
DATE PREPARED 3/3/2025
ROUTE VAR. | STATE MO
DISTRICT SW | SHEET NO. 30
COUNTY NEWTON
JOB NO. J7S3506
CONTRACT ID.
PROJECT NO.
BRIDGE NO.

DESCRIPTION | DATE

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

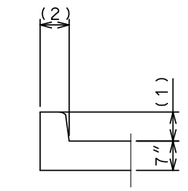
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

Bartlett & West
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PHONE 573-634-3181
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SECTION A–A

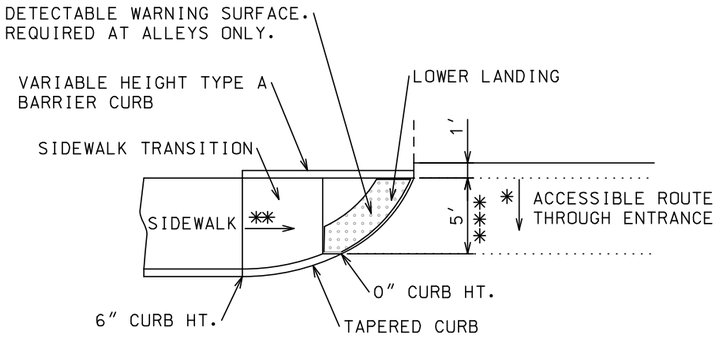
SECTION AA–AA (ASPHALT ONLY)



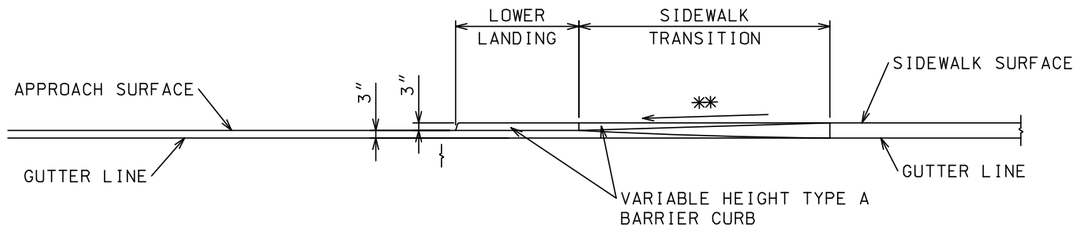
TYPE B (BARRIER)

SECTION B–B

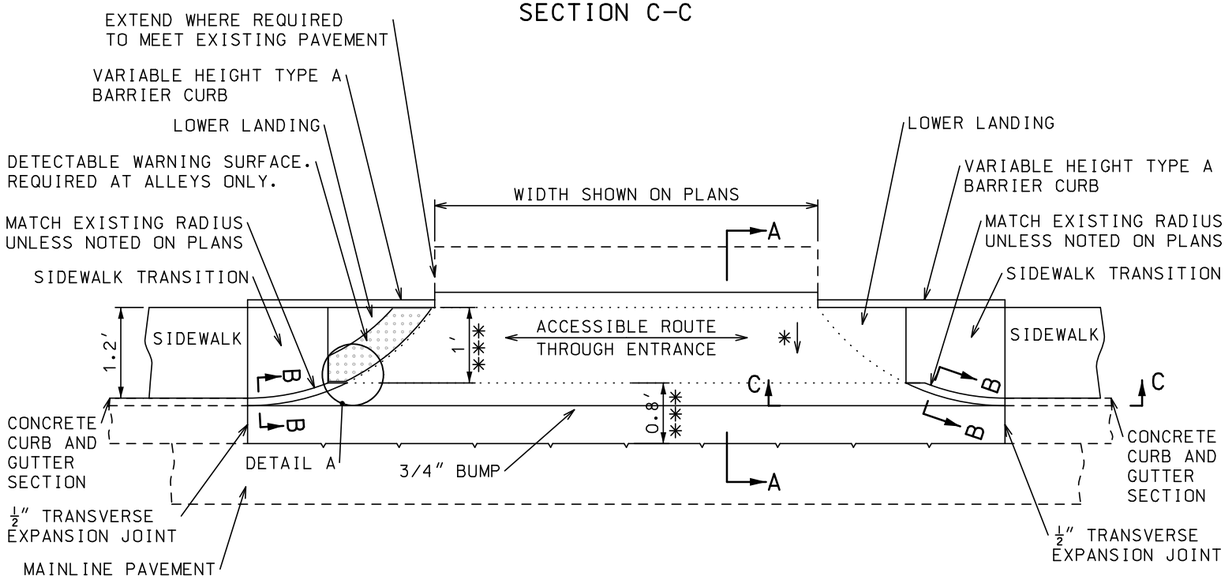
NOTE: THE CROSS SLOPE OF SIDEWALKS, LANDINGS, AND ACCESSIBLE ROUTE THROUGH THE PAVED APPROACHES SHALL BE 1.00% TO FACILITATE DRAINAGE (2.00% MAX.).



DETAIL A



SECTION C–C



PLAN OF NON-SIGNALIZED ALLEY AND COMMERCIAL OR RESIDENTIAL APPROACHES WITH 6′ SIDEWALKS

* THE CROSS SLOPE OF THE CONTINUOUS PEDESTRIAN ACCESS ROUTE SHALL BE 1.00% TO FACILITATE DRAINAGE (2.00% MAX.).

** SIDEWALK TRANSITION 5% MAXIMUM SLOPE

*** NOTE THAT THE DIMENSIONS SHOWN ON THIS SHEET ARE DESIRED. HOWEVER, EXISTING DRIVEWAYS WITH STEEPER GRADES MAY REQUIRE A 4′ WIDE PEDESTRIAN ROUTE IN ORDER TO KEEP GRADE BREAKS TO A MINIMUM. REFER TO DRIVEWAY SECTIONS FOR FINAL DIMENSIONS AT EACH DRIVEWAY.

(1) 6″ – EXCEPT WHERE VARIED TO MEET EXISTING IMPROVEMENTS.
(2) 6″ – EXCEPT WHERE VARIED TO MEET EXISTING IMPROVEMENTS.
(3) EXTEND WHERE REQUIRED TO MEET EXISTING PAVEMENT.
(4) VARY TO MEET EXISTING IMPROVEMENTS.

GENERAL NOTES:

WHERE PAVED APPROACH MEETS EXISTING CONCRETE PAVEMENT OR SIDEWALK, PLACE ½″ PREFORMED FIBER EXPANSION JOINT, CUT TO TEMPLATE, THROUGH NEW CONCRETE AND 1′ FROM JUNCTION WITH EXISTING CONCRETE, OR ALONG INSIDE EDGE OF SIDEWALK. WHERE PAVED APPROACH MEETS EXISTING BITUMINOUS CONSTRUCTION, OMIT JOINT.

SEE STANDARD PLAN 502.05 FOR TYPE AND LOCATION OF CONCRETE PAVEMENT JOINTS.

SEE STANDARD PLAN 609.00 FOR TRANSVERSE EXPANSION JOINT DETAILS.

WHERE DRAINAGE IS NOT TO BE CARRIED ACROSS THE PAVED APPROACH, SECTION A-A SHALL BE MODIFIED TO ELIMINATE THE "LIP" AND SHALL BE CROWNED AS DIRECTED BY THE ENGINEER.

IF SIDEWALKS ARE NOT INCLUDED IN CONSTRUCTION OF PAVED APPROACH, PLACE GROUND COVER, AS SHOWN ON PLANS, BEHIND CURB THROUGH RADIUS. GROUND COVER SHALL CONFORM TO FINISHED GRADING FOR CURB RAMP.

HAND FINISHING PERMITTED ON PAVED APPROACH.

THE APPROACH GRADE THROUGH THE LIMITS OF A SIDEWALK SHALL NOT EXCEED 2.00%.

SEE STANDARD PLAN 608.00 FOR PAVED APPROACH JOINT DETAILS.

VARIABLE HEIGHT TYPE A BARRIER CURB SHALL BE CONSTRUCTED ACCORDING TO STANDARD PLANS. PAID FOR PER SQUARE YARD ON CONCRETE CURB RAMP

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NOT TO SCALE

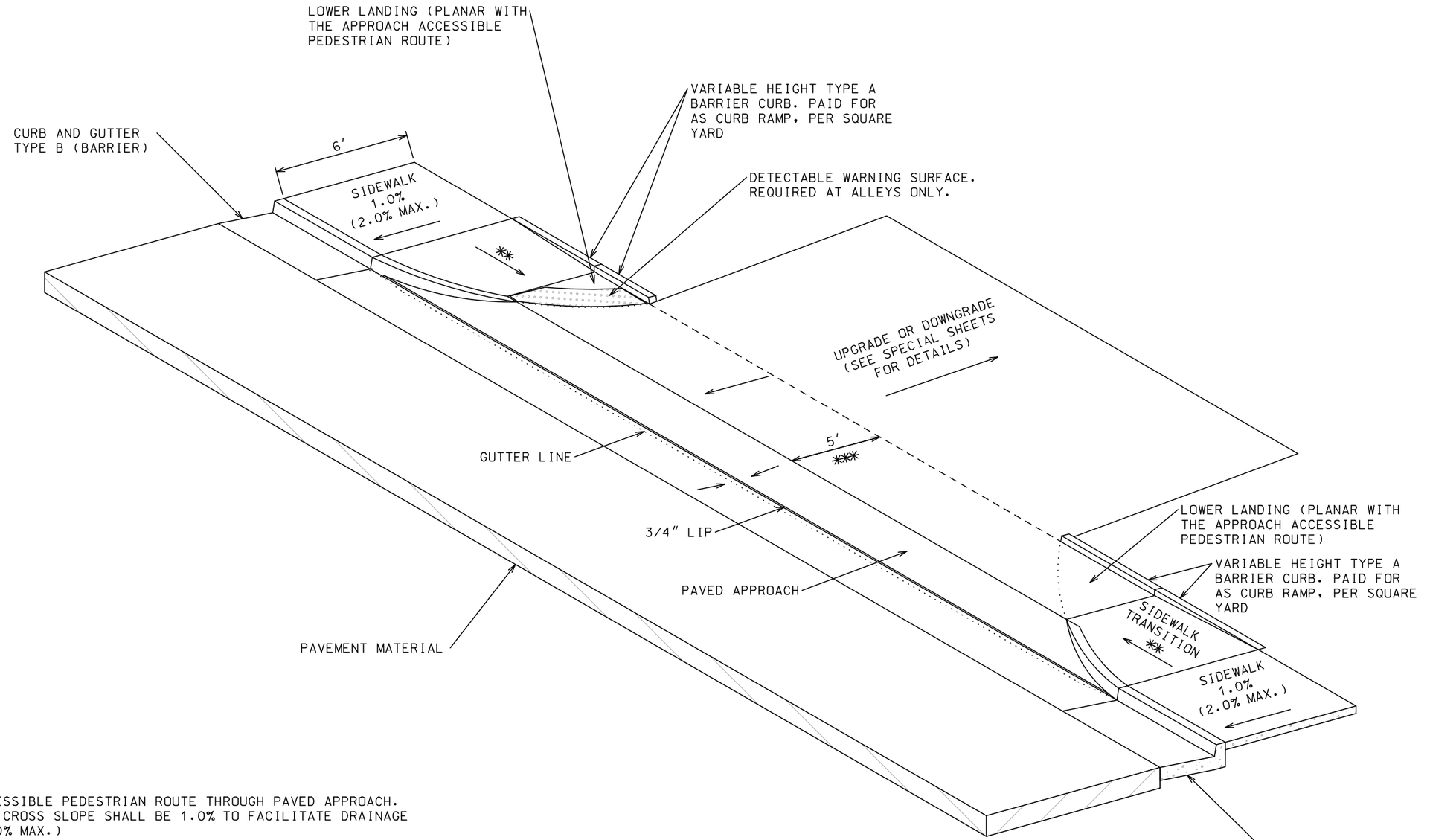
STATE OF MISSOURI
ROBERT B. GREEN
NUMBER PE-25339
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED SEALED AND DATED ELECTRONICALLY.

DATE PREPARED 3/3/2025
ROUTE VAR. | STATE MO
DISTRICT SW | SHEET NO. 31
COUNTY NEWTON
JOB NO. J7S3506
CONTRACT ID.
PROJECT NO.
BRIDGE NO.

DESCRIPTION | DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)
Bartlett & West
601 MONROE ST. SUITE 201 - JEFFERSON CITY, MO 65101
PHONE 573-634-3181
CERTIFICATE OF AUTHORITY NO. 000167 - ENGINEERING
WWW.BARTLETTWEST.COM

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* ACCESSIBLE PEDESTRIAN ROUTE THROUGH PAVED APPROACH. THE CROSS SLOPE SHALL BE 1.0% TO FACILITATE DRAINAGE (2.0% MAX.)

** SIDEWALK TRANSITION 5% MAXIMUM SLOPE

*** NOTE THAT THE DIMENSION SHOWN ON THIS SHEET IS DESIRED. HOWEVER, EXISTING DRIVEWAYS WITH STEEPER GRADES MAY REQUIRE A 4' WIDE PEDESTRIAN ROUTE IN ORDER TO KEEP GRADE BREAKS TO A MINIMUM. REFER TO DRIVEWAY SECTIONS FOR FINAL DIMENSIONS AT EACH DRIVEWAY.

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ISOMETRIC VIEW
NON-SIGNALIZED ALLEY AND COMMERCIAL OR RESIDENTIAL APPROACHES WITH 6' SIDEWALKS

NOT TO SCALE

STATE OF MISSOURI
ROBERT B. GREEN
NUMBER PE-25339
PROFESSIONAL ENGINEER
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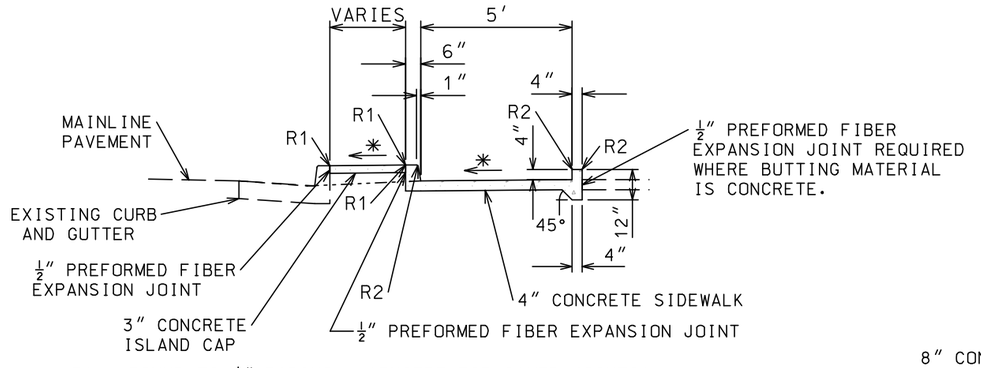
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ROUTE: VAR. | STATE: MO
DISTRICT: SW | SHEET NO.: 32
COUNTY: NEWTON
JOB NO.: J7S3506
CONTRACT ID.:
PROJECT NO.:
BRIDGE NO.:

DESCRIPTION | DATE

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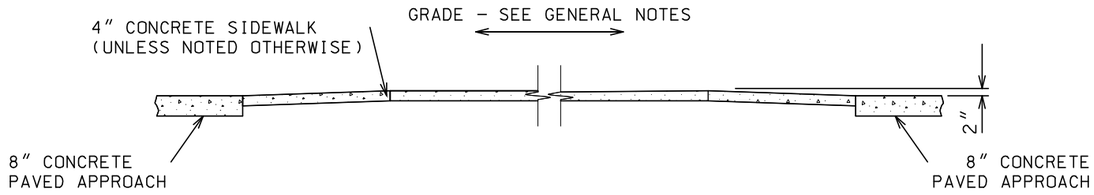
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
MoDOT
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

Bartlett & West
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PHONE 573-634-3181
CERTIFICATE OF AUTHORITY NO. 000167 - ENGINEERING
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R1 – ROUND TO $\frac{1}{4}$″ RADIUS. (EXCEPT FOR SAWED JOINTS)
R2 – ROUND TO $\frac{3}{4}$″ RADIUS.

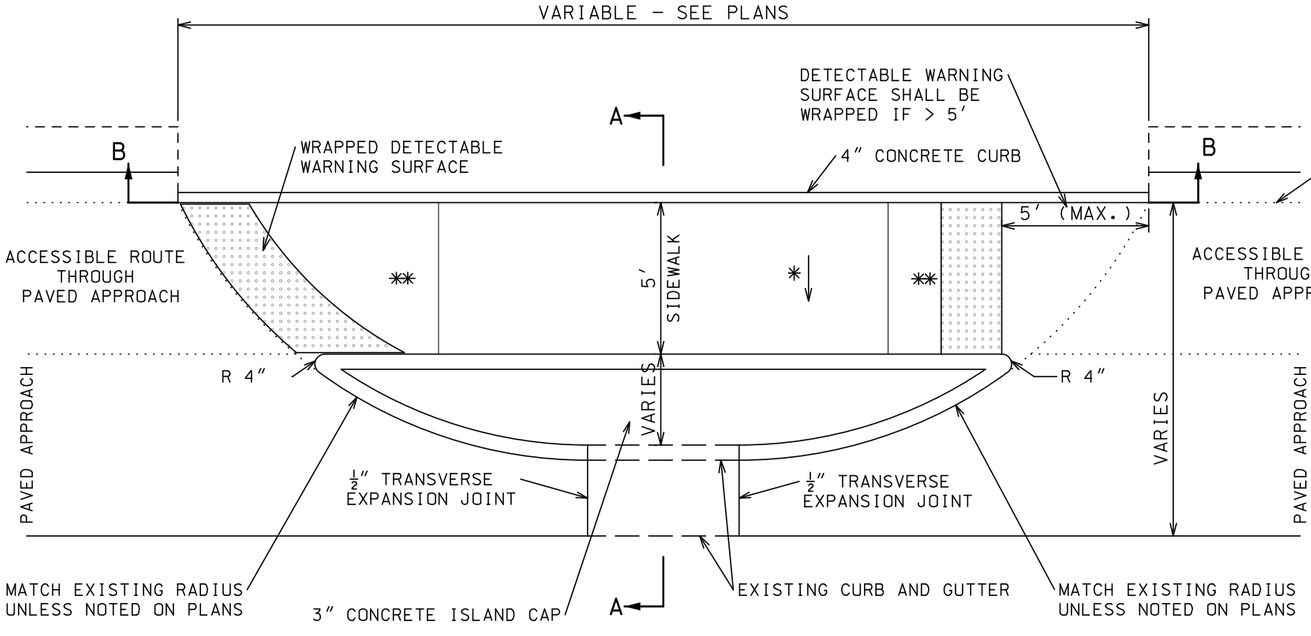
SECTION A–A



SECTION B–B

✳ CROSS SLOPE SHALL BE 1.00% TO FACILITATE DRAINAGE (2.00% MAX.).

✳✳ DETECTABLE WARNING SURFACES ARE REQUIRED AT NON-SIGNALIZED STREET, SIDE ROAD AND ALLEY APPROACHES. NON-SIGNALIZED COMMERCIAL AND PRIVATE APPROACHES DO NOT REQUIRE DETECTABLE WARNINGS UNLESS OTHERWISE SPECIFIED ON THE PLANS.



CUT–THROUGH SIDEWALK

GENERAL NOTES:

SEE STANDARD PLAN 609.00 FOR TRANSVERSE EXPANSION JOINT DETAILS.

EXCEPT IN PEDESTRIAN STREET CROSSINGS, THE GRADE OF PEDESTRIAN ACCESS ROUTES SHALL NOT EXCEED THE GENERAL GRADE ESTABLISHED FOR THE ADJACENT STREET.

WHERE PEDESTRIAN ACCESS ROUTES ARE CONTAINED WITHIN PEDESTRIAN STREET CROSSINGS, THE GRADE OF THE PEDESTRIAN ACCESS ROUTE SHALL BE 5.0% MAXIMUM.

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ROBERT B. GREEN
NUMBER PE-25339
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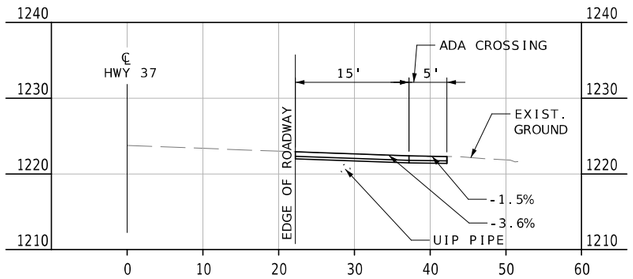
DATE PREPARED 3/3/2025
ROUTE VAR. | STATE MO
DISTRICT SW | SHEET NO. 33
COUNTY NEWTON
JOB NO. J7S3506
CONTRACT ID.
PROJECT NO.
BRIDGE NO.

DESCRIPTION | DATE

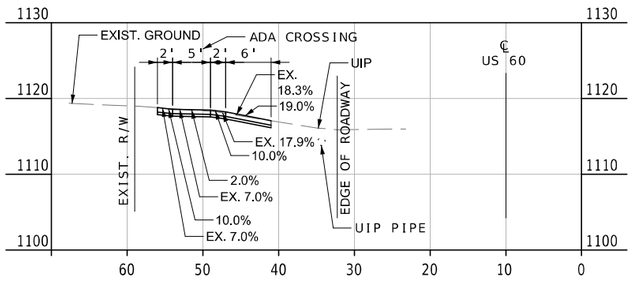
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
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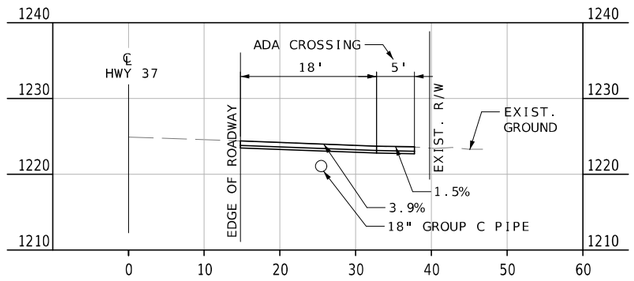
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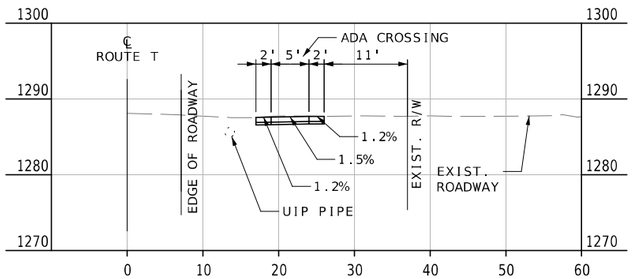
ALLEY
STA 250+41.16 RT
8″ PCC PE
13′ WIDE
UIP PIPE
WENTWORTH



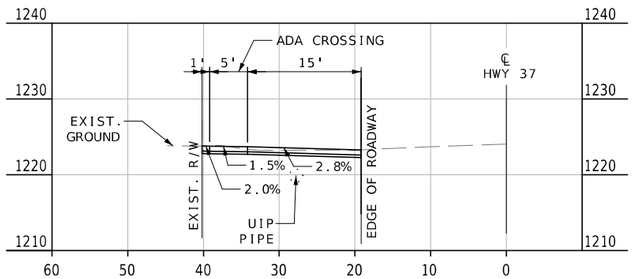
STA 903+02.82 LT
8″ PCC PE
56′ WIDE
UIP PIPE
GRANBY



STA 253+56.94 RT
8″ PCC PE
23′ WIDE
58 LF 18″ GROUP C PIPE
WENTWORTH



N. REESE ST.
STA 8+18.07 RT
8″ PCC CE
17′ WIDE
UIP PIPE
FAIRVIEW



STA 251+17.86 LT
8″ PCC CE
13′ WIDE
UIP PIPE
WENTWORTH

SPECIAL SHEET
FAIRVIEW, GRANBY, AND WENTWORTH
SHEET 8 OF 13

STATE OF MISSOURI
ROBERT B. GREEN
NUMBER PE-25339
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED
3/3/2025

ROUTE	STATE
VAR.	MO
DISTRICT	SHEET NO.
SW	34

COUNTY
NEWTON

JOB NO.
J7S3506

CONTRACT ID.

PROJECT NO.

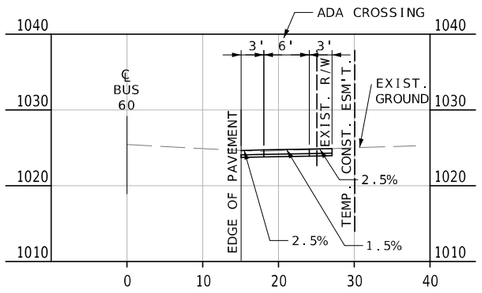
BRIDGE NO.

DESCRIPTION	DATE

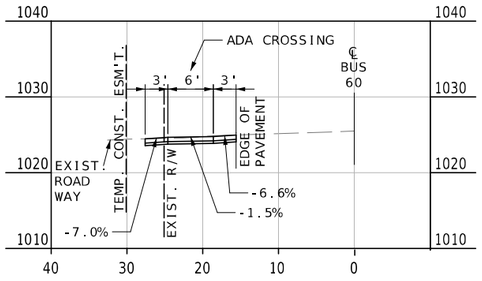
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JEFFERSON CITY, MO 65102
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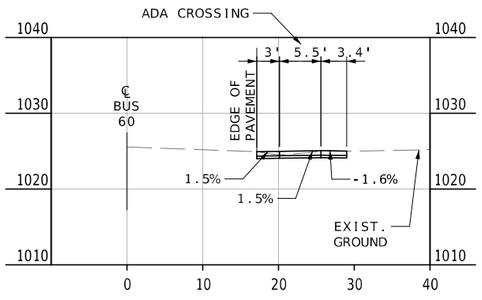
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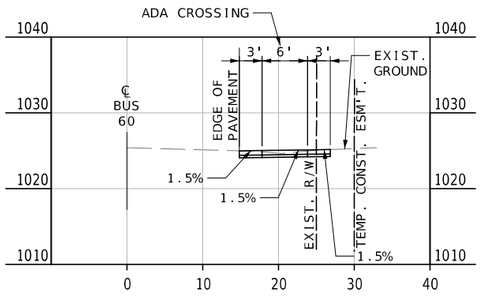
STA. 23+38.03 RT
8" PCC CE
30' WIDE
NO PIPE
NEOSHO



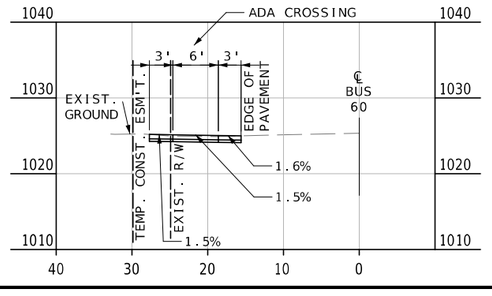
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STA. 22+91.80 LT
8" PCC
16' WIDE
NO PIPE
NEOSHO



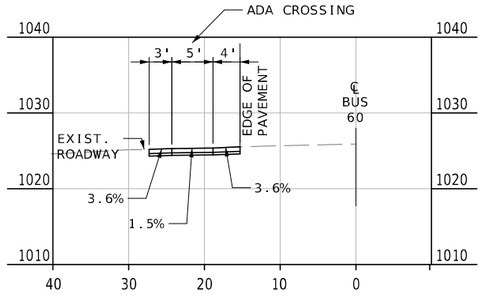
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STA. 22+88.38 RT
8" PCC
11' WIDE
NO PIPE
NEOSHO



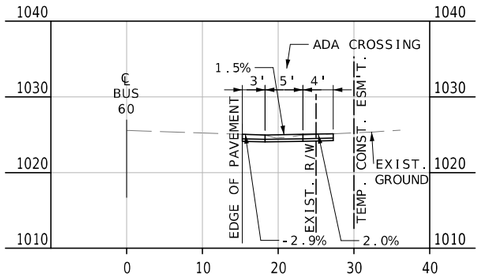
STA. 22+29.01 RT
8" PCC CE
20' WIDE
NO PIPE
NEOSHO



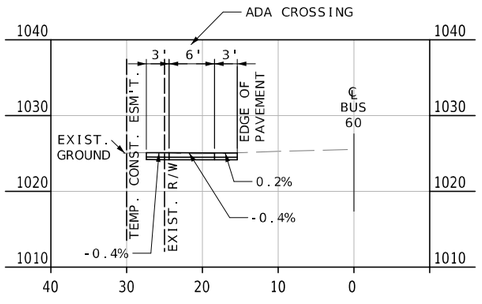
STA. 22+03.93 LT
8" PCC CE
15' WIDE
NO PIPE
NEOSHO



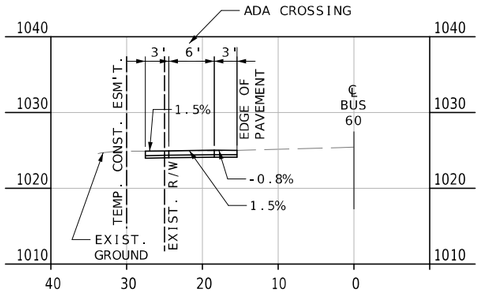
N. LINCOLN ST.
STA. 24+73.14 LT
8" PCC CE
29' WIDE
NO PIPE
NEOSHO



STA. 24+19.88 RT
8" PCC CE
48' WIDE
NO PIPE
NEOSHO



STA. 24+08.77 LT
8" PCC CE
40' WIDE
NO PIPE
NEOSHO



STA. 23+39.78 LT
8" PCC CE
30' WIDE
NO PIPE
NEOSHO

SPECIAL SHEET
NEOSHO
SHEET 9 OF 13

STATE OF MISSOURI
ROBERT B. GREEN
NUMBER PE-25339
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED SEALED AND DATED ELECTRONICALLY.

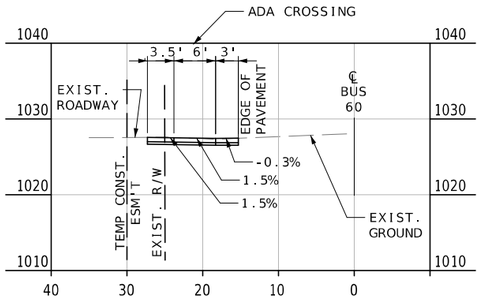
DATE PREPARED: 3/14/2025
ROUTE: VAR. | STATE: MO
DISTRICT: SW | SHEET NO.: 35
COUNTY: NEWTON
JOB NO.: J7S3506
CONTRACT ID.:
PROJECT NO.:
BRIDGE NO.:

DESCRIPTION | DATE

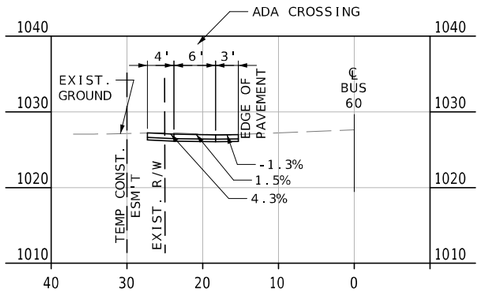
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105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

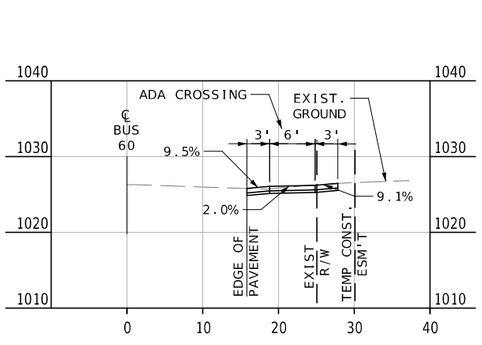
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PHONE 573-634-3181
CERTIFICATE OF AUTHORITY NO. 000167 - ENGINEERING
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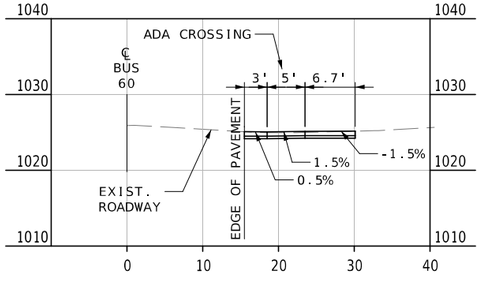
ALLEY
STA. 26+55.54 LT
8" PCC ALLEY
12' WIDE
NO PIPE
NEOSHO



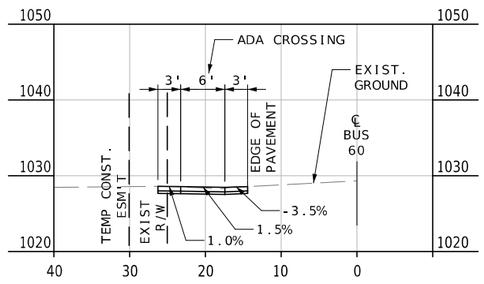
STA. 26+16.25 LT
8" PCC CE
34' WIDE
NO PIPE
NEOSHO



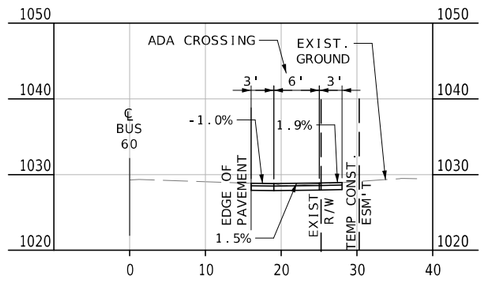
STA. 25+25.73 RT
8" PCC CE
21' WIDE
NO PIPE
NEOSHO



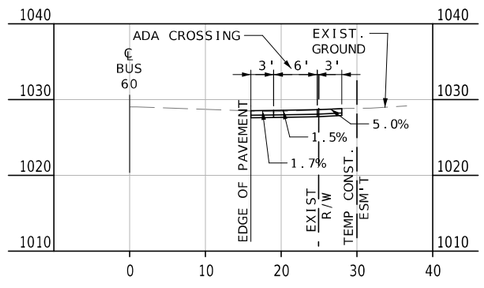
N. LINCOLN ST.
STA. 24+73.08 RT
8" PCC CE
28' WIDE
NO PIPE
NEOSHO



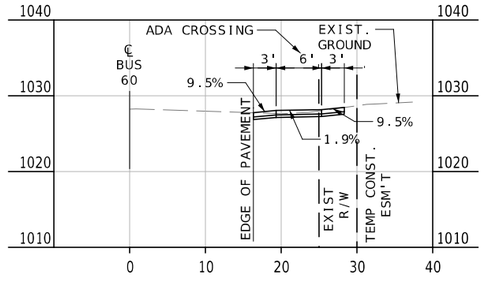
STA. 28+38.50 LT
8" PCC CE
43' WIDE
NO PIPE
NEOSHO



STA. 28+31.87 RT
8" PCC CE
20' WIDE
NO PIPE
NEOSHO



STA. 27+79.03 RT
8" PCC CE
27' WIDE
NO PIPE
NEOSHO



STA. 26+69.78 RT
8" PCC CE
38' WIDE
NO PIPE
NEOSHO

SPECIAL SHEET
NEOSHO
SHEET 10 OF 13

STATE OF MISSOURI
ROBERT B. GREEN
NUMBER PE-2539
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED
3/3/2025

ROUTE	STATE
VAR.	MO
DISTRICT	SHEET NO.
SW	36

COUNTY
NEWTON

JOB NO.
J7S3506

CONTRACT ID.

PROJECT NO.

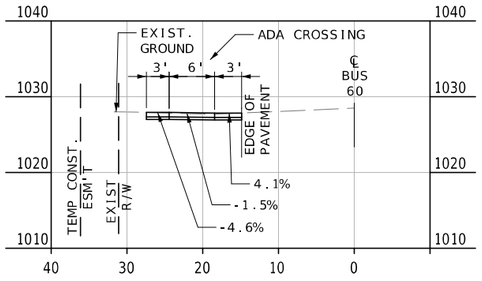
BRIDGE NO.

DESCRIPTION	DATE

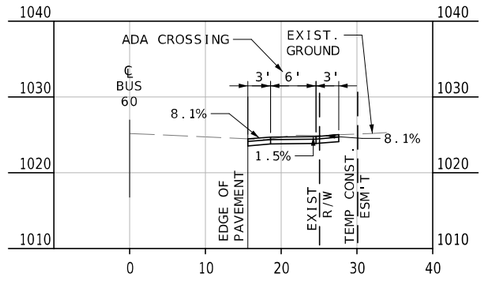
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MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

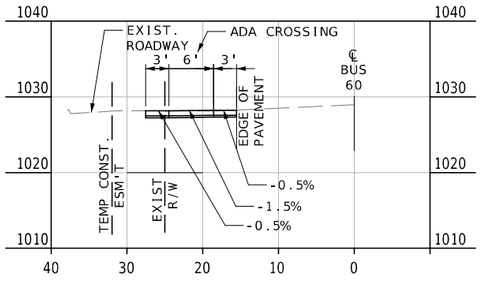
Bartlett & West
601 MONROE ST. SUITE 201 - JEFFERSON CITY, MO 65101
PHONE 573-634-3181
CERTIFICATE OF AUTHORITY NO. 000167 - ENGINEERING
WWW.BARTLETTWEST.COM



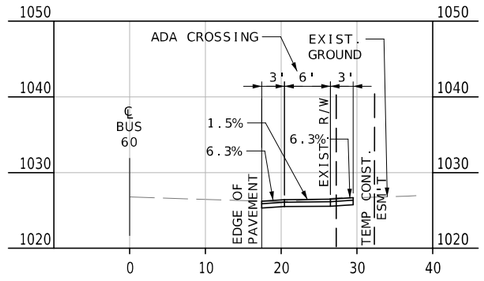
STA. 29+98.63 LT
8" PCC CE
80' WIDE
NO PIPE
NEOSHO



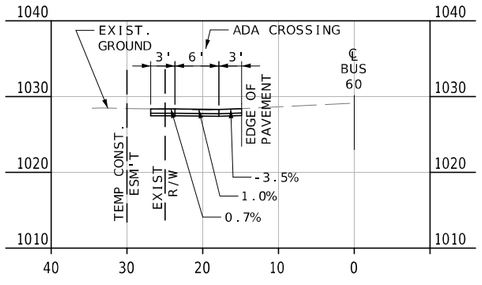
STA. 32+86.65 RT
8" PCC PE
32' WIDE
NO PIPE
NEOSHO



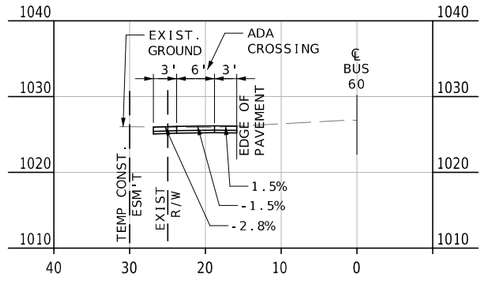
ALLEY
STA. 29+40.96 LT
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15' WIDE
NO PIPE
NEOSHO



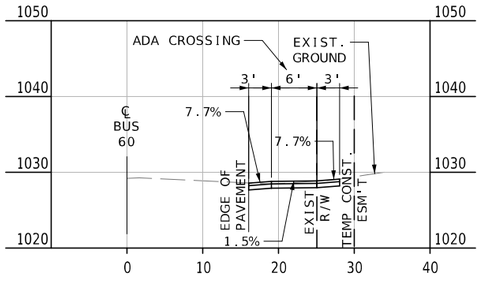
STA. 32+10.07 RT
8" PCC CE
30' WIDE
NO PIPE
NEOSHO



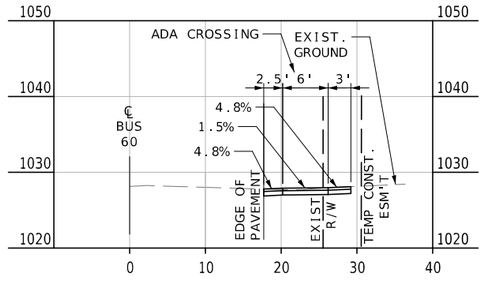
STA. 29+14.99 LT
8" PCC CE
30' WIDE
NO PIPE
NEOSHO



STA. 32+04.98 LT
8" PCC CE
78' WIDE
NO PIPE
NEOSHO



STA. 29+05.69 RT
8" PCC CE
20' WIDE
NO PIPE
NEOSHO



STA. 30+60.29 RT
8" PCC CE
60' WIDE
NO PIPE
NEOSHO

SPECIAL SHEET
NEOSHO
SHEET 11 OF 13

STATE OF MISSOURI
ROBERT B. GREEN
NUMBER PE-25339
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED SEALED AND DATED ELECTRONICALLY.

DATE PREPARED
3/3/2025

ROUTE	STATE
VAR.	MO
DISTRICT	SHEET NO.
SW	37

COUNTY
NEWTON

JOB NO.
J7S3506

CONTRACT ID.

PROJECT NO.

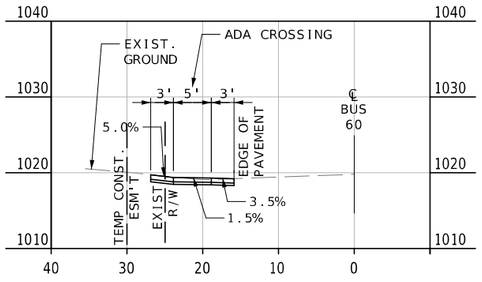
BRIDGE NO.

DESCRIPTION	DATE

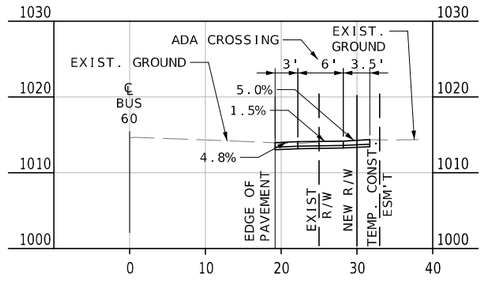
IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

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

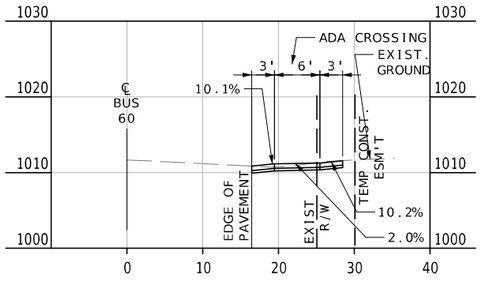
Bartlett & West
601 MONROE ST. SUITE 201 - JEFFERSON CITY, MO 65101
PHONE 573-634-3181
CERTIFICATE OF AUTHORITY NO. 000167 - ENGINEERING
WWW.BARTLETTWEST.COM



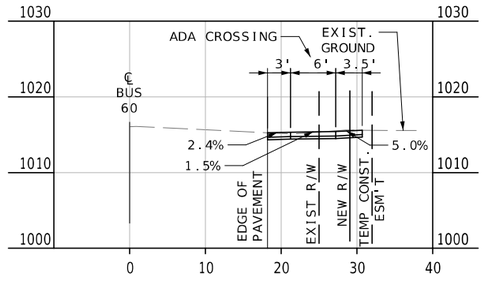
STA. 35+20.85 LT
8" PCC PE
10' WIDE
NO PIPE
NEOSHO



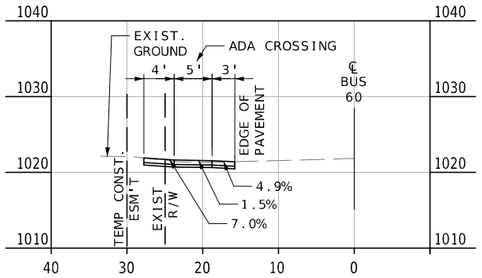
STA. 37+41.59 RT
8" PCC CE
45' WIDE
NO PIPE
NEOSHO



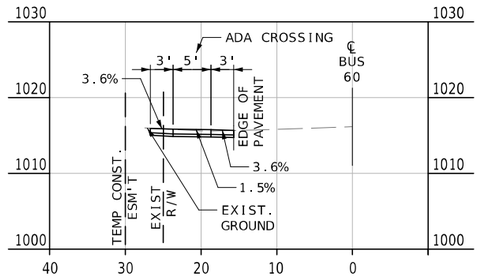
STA. 34+38.10 RT
8" PCC CE
35' WIDE
NO PIPE
NEOSHO



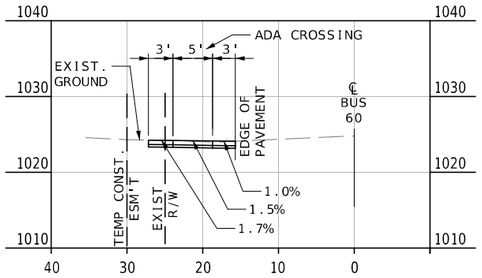
STA. 36+73.96 RT
8" PCC CE
41' WIDE
NO PIPE
NEOSHO



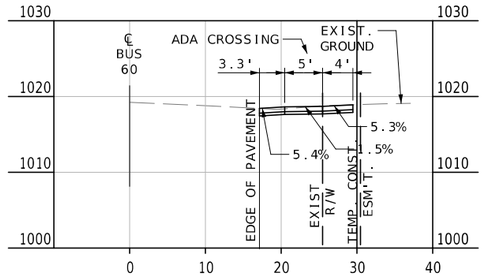
STA. 34+31.74 LT
8" PCC PE
15' WIDE
NO PIPE
NEOSHO



STA. 36+69.72 LT
8" PCC
10' WIDE
NO PIPE
NEOSHO



STA. 33+02.21 LT
8" PCC
16' WIDE
NO PIPE
NEOSHO



STA. 35+43.15 RT
8" PCC CE
30' WIDE
NO PIPE
NEOSHO

SPECIAL SHEET
NEOSHO
SHEET 12 OF 13

STATE OF MISSOURI
ROBERT B. GREEN
NUMBER PE-25339
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

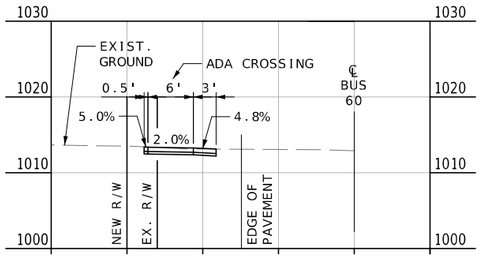
DATE PREPARED: 3/3/2025
ROUTE: VAR. | STATE: MO
DISTRICT: SW | SHEET NO.: 38
COUNTY: NEWTON
JOB NO.: J7S3506
CONTRACT ID.:
PROJECT NO.:
BRIDGE NO.:

DESCRIPTION	DATE

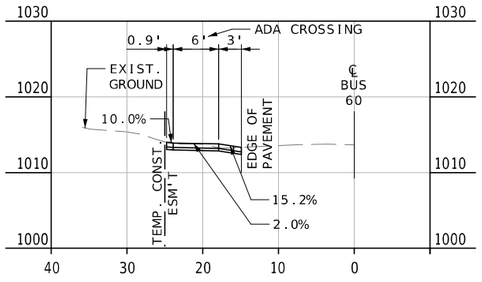
IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

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

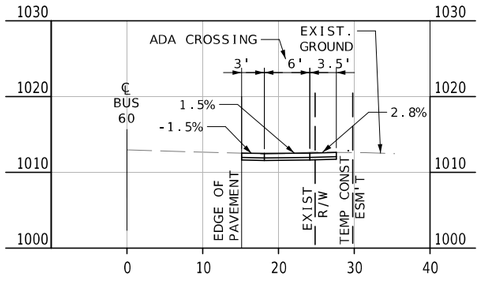
Bartlett & West
601 MONROE ST. SUITE 201 - JEFFERSON CITY, MO 65101
PHONE 573-634-3181
CERTIFICATE OF AUTHORITY NO. 000167 - ENGINEERING
WWW.BARTLETTWEST.COM



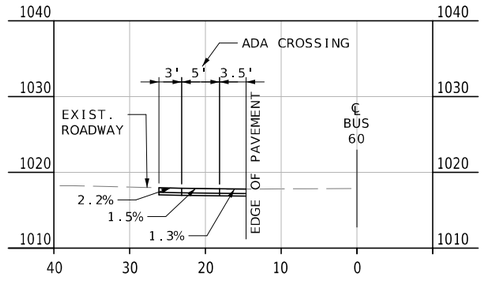
STA. 39+00.00 LT
8" PCC PE
16' WIDE
NO PIPE
NEOSHO



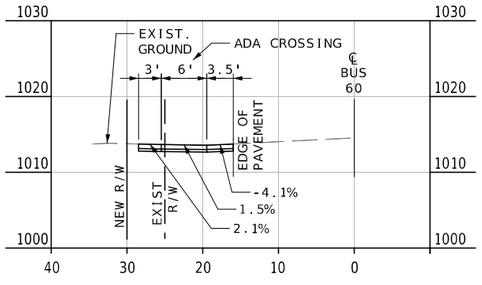
STA. 39+25.34 LT
8" PCC PE
10' WIDE
NO PIPE
NEOSHO



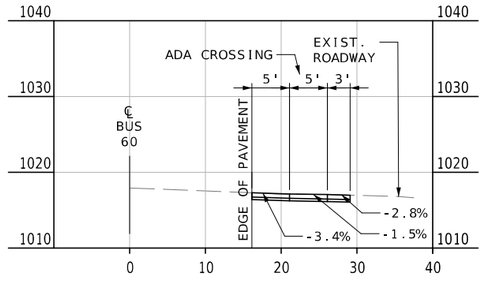
STA. 39+02.04 RT
8" PCC CE
40' WIDE
NO PIPE
NEOSHO



ADAMS ST.
STA. 42+09.83 LT
8" PCC CE
23' WIDE
NO PIPE
NEOSHO



STA. 37+46.45 LT
8" PCC CE
30' WIDE
NO PIPE
NEOSHO



ADAMS ST.
STA. 42+09.05 RT
8" PCC CE
19' WIDE
NO PIPE
NEOSHO

SPECIAL SHEET
NEOSHO
SHEET 13 OF 13

STATE OF MISSOURI
ROBERT B. GREEN
NUMBER PE-25339
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED
4/7/2025

ROUTE	STATE
VAR.	MO
DISTRICT	SHEET NO.
SW	39

COUNTY
NEWTON

JOB NO.
J7S3506

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION	DATE

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

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

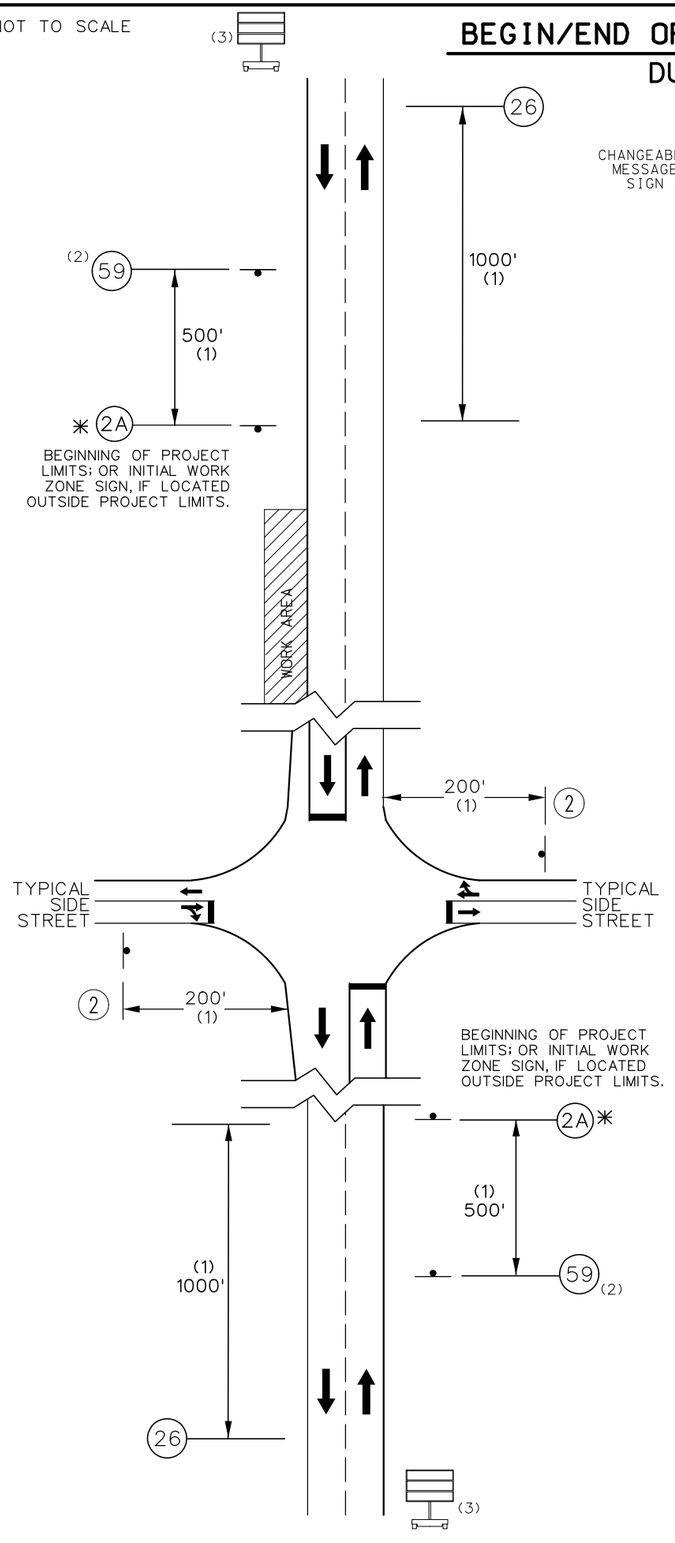
Bartlett & West
601 MONROE ST. SUITE 201 - JEFFERSON CITY, MO 65101
PHONE 573-634-3181
CERTIFICATE OF AUTHORITY NO. 000167 - ENGINEERING
WWW.BARTLETTWEST.COM

NOT TO SCALE

BEGIN/END OF PROJECT SIGNING

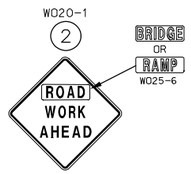
DUAL-LANE

EFFECTIVE: 06-08-2016
REVISED (ADA): 04-22-2024



(3)
CHANGEABLE MESSAGE SIGN









✱ SIGN (2A) WITH AWRS MUST BE GROUND OR SKID MOUNTED.

SIGN SPACING FOR ADVANCE SIGN SERIES

SPACING BETWEEN SIGNS AND SPACING BETWEEN LAST SIGN AND FLAGGER, BEGINNING OF TAPER, OR SIGNED CONDITION.

SPACINGS MAY BE ADJUSTED AS NECESSARY TO MEET FIELD CONDITIONS.

SPEED MPH (S)	NON-DIVIDED HIGHWAYS	DIVIDED HIGHWAYS
0-35	200 FT	200 FT
40-45	350 FT	500 FT
50-55	500 FT	1000 FT
60-70	1000 FT	1000 FT

GENERAL NOTES:

1. ANY EXISTING SIGNING THAT CONFLICTS WITH THE TRAFFIC CONTROL SIGNING SHALL BE COMPLETELY COVERED OR REMOVED.
2. ALTERNATE TRAFFIC CONTROL MAY BE USED AS NEEDED AT THE APPROVAL OF THE ENGINEER.
3. SEE STANDARD DRAWING 616.10 AND 620.10 FOR ADDITIONAL DETAILS, AND 903.03 FOR SIGN AND SIGN MOUNTING REQUIREMENTS.
4. 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.
5. TEMPORARY SPEED LIMIT SIGNS SHALL BE COVERED OR REMOVED WHEN THE CONDITIONS REQUIRING REDUCED SPEEDS DO NOT EXIST.
6. NO DIRECT PAYMENT WILL BE MADE FOR THE RELOCATION OF CHANNELIZERS, CONST. SIGNS OR FLASHING ARROW PANEL.
7. NO DIRECT PAYMENT WILL BE MADE FOR TEMPORARY STOP OR YIELD SIGNS AS NEEDED TO MAINTAIN EXISTING STOP/YIELD CONDITIONS AS APPROVED BY THE ENGINEER.
8. ALL SIGNS, EXCEPT "RATE OUR WORK ZONE" SIGN, 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.
9. 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. ALL TRAFFIC CONTROL SHALL CONFORM TO THE LATEST EDITION OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD).
10. 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.
11. THE CONTRACTOR SHALL MAINTAIN PUBLIC ACCESS TO ALL BUSINESSES AND STREETS. NO STREET OR ENTRANCE SHALL BE COMPLETELY BLOCKED.
12. ALL PEDESTRIAN TRAFFIC CONTROL DEVICES SHALL REMAIN IN PLACE UNTIL THE CURB RAMP & SIDEWALK IS OPENED FOR PEDESTRIAN TRAVEL.
13. PEDESTRIAN TRAFFIC CONTROL SIGNS MAY BE MOUNTED ON PORTABLE MOUNTS AT 1 FT. PROVIDED THEY DO NOT INTERFERE WITH PEDESTRIAN MOVEMENT OR BE OBSTRUCTED BY PARKING. OTHERWISE, SIGNS SHALL BE MOUNTED AT 7 FT.
14. SPACING & DISTANCES OF TRAFFIC CONTROL DEVICES ARE APPROXIMATE. THE EXACT LOCATIONS SHALL BE DETERMINED IN THE FIELD & APPROVED BY THE ENGINEER.

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

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

TRAFFIC CONTROL
SHEET 1 OF 4

STATE OF MISSOURI
ROBERT B. GREEN
NUMBER PE-25339
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

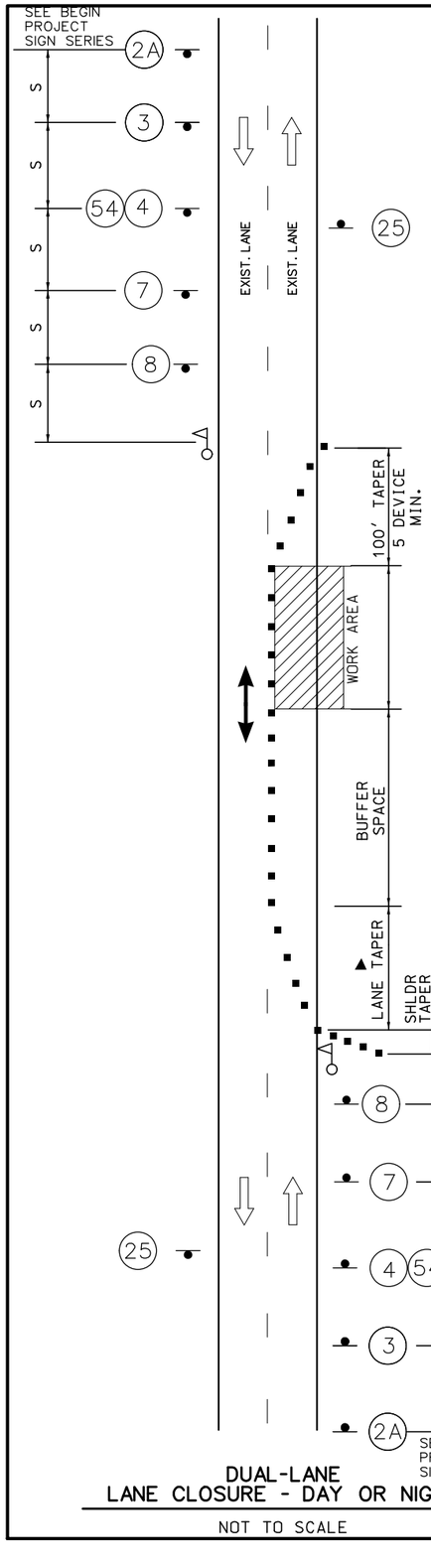
DATE PREPARED: 3/3/2025
ROUTE: VAR. | STATE: MO
DISTRICT: SW | SHEET NO.: 40
COUNTY: NEWTON
JOB NO.: J7S3506
CONTRACT ID.:
PROJECT NO.:
BRIDGE NO.:

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

DESCRIPTION	DATE

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

Bartlett & West
601 MONROE ST. SUITE 201 - JEFFERSON CITY, MO 65101
PHONE 573-634-3181
CERTIFICATE OF AUTHORITY NO. 000167 - ENGINEERING
WWW.BARTLETTWEST.COM



DUAL-LANE
LANE CLOSURE - DAY OR NIGHT

NOT TO SCALE

SIGNING REFLECTS DAY OR NIGHT TIME WORKING HOURS

NIGHT TIME WORK HOURS
7 PM - 6 AM

Speed Limit[1], mph	Taper Length[2], ft.		Channelizing Spacing [3], ft.	
	Shoulder[4] (T1)	Lane[5] (T2)	Tapers	Buffer/Work Areas
up to 35	70	245	35[6]	40[6]
40 to 45	150	540	40[6]	80[6]
50 to 55	185	660	50[7]	80[7]
60 to 70	235	840	60[7]	120[7]

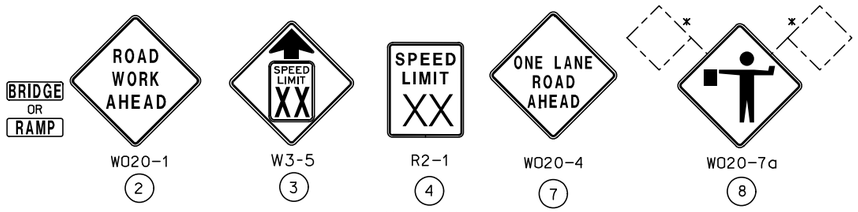
[1] Speed limit is based on posted speed limit.
[2] Taper lengths may be adjusted to accommodate crossroads, curves, intersections, ramps or other geometric features.
[3] Channelizer spacing may be reduced to discourage traffic encroachment.
[4] Based on 10 ft. shoulder width.
[5] Based on 12 ft. lane width.
[6] Spacing reduced to 1/2 at intersections.
[7] Spacing may be reduced to 1/2 at intersections.

Speed Limit[1], mph	Sign Spacing[2], ft.	
	Undivided Highway	Divided Highway
up to 35	200[3]	200[3]
40 to 45	350	500
50 to 55	500	1000
60 to 70	1000	SA-1000 SB-1500 SC-2640

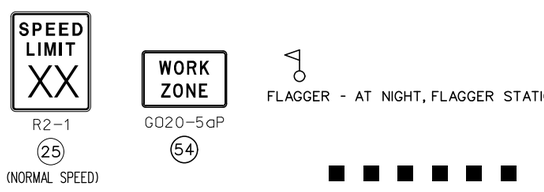
[1] Speed limit is based on posted speed limit.
[2] Sign spacing may be adjusted, normally by increasing it, to accommodate field conditions and visibility.
[3] For urban low speed, minimum recommended spacing in MUTCD is 100 ft.

SPEED REDUCTIONS PER LOCATION			
FAIRVIEW	GRANBY	NEOSHO	WENTWORTH
25	20	20	35

SPEED LIMITS PER LOCATION			
FAIRVIEW	GRANBY	NEOSHO	WENTWORTH
35	30	30	45



* SIGN W020-7A (FLAGGER SYMBOL) FLAGS ARE INCIDENTAL TO THE SIGN. NO DIRECT PAY.



NOTES:

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

▲ IN TAPER SECTIONS: QUANTITY OF TRIMLINE CHANNELIZERS IS DOUBLED WHEN COMPARED TO MAX. CHANNELIZER SPACING IN THE CHART.

TEMPORARY PAVEMENT MARKING REQUIRED WITH LONG TERM LANE CLOSURES (NO DIRECT PAY)

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

NO DIRECT PAYMENT WILL BE MADE FOR TEMPORARY STOP OR YIELD SIGNS AS NEEDED TO MAINTAIN EXISTING STOP/YIELD CONDITONS AS APPROVED BY THE ENGINEER.

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

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.

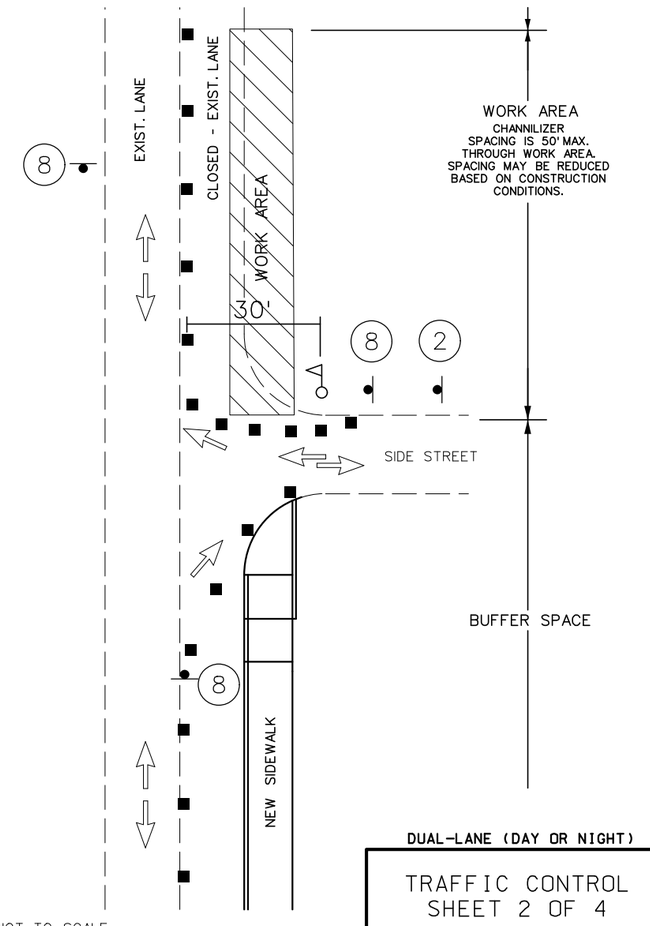
ALL SIGNS, EXCEPT "RATE OUR WORK ZONE", SHALL BE PORTABLE MOUNT AND ARE TO BE MOVED AS WORK PROGRESSES, UNLESS OTHERWISE NOTED. ALL TRAFFIC CONTROL ITEMS SHALL BE REMOVED FROM THE ROADWAY DURING NON-WORKING HOURS.

WORK WILL REQUIRE LANE CLOSURES UNLESS OTHERWISE APPROVED BY ENGINEER.

LAYOUT IS TYPICAL FOR EITHER DIRECTION. ALTERNATE TRAFFIC CONTROL MAY BE USED AS NEEDED AT THE APPROVAL OF THE ENGINEER. SEE STANDARD DRAWING 616.10 FOR ADDITIONAL DETAILS.

THE MAX. CHANNELIZER SPACING WITHIN THE WORK ZONE AREA MAY BE REDUCED BASED ON CONSTRUCTION CONDITIONS, AS APPROVED BY ENGINEER.

SIDE STREET FLAGGING DETAIL



DUAL-LANE (DAY OR NIGHT)

NOT TO SCALE

EFFECTIVE: 06-08-2016
REVISED (ADA): 04-22-2024

STATE OF MISSOURI
ROBERT B. GREEN
NUMBER PE-25339
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED
3/3/2025

ROUTE	STATE
VAR.	MO
DISTRICT	SHEET NO.
SW	41

COUNTY
NEWTON

JOB NO.
J7S3506

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION	DATE

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

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

Bartlett & West
601 MONROE ST. SUITE 201 - JEFFERSON CITY, MO 65101
PHONE 573-634-3181
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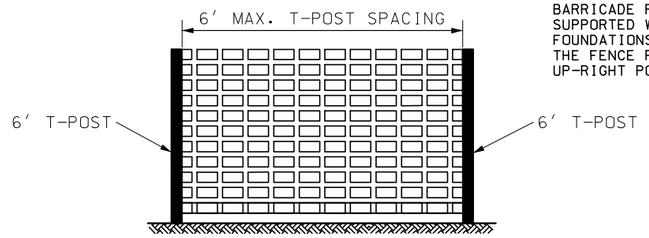
TRAFFIC CONTROL
SHEET 2 OF 4

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.

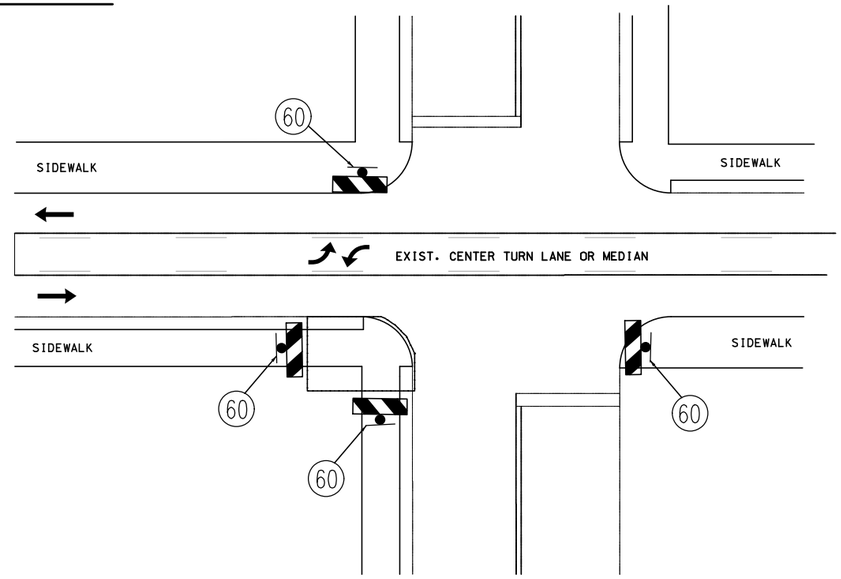
ORANGE PLASTIC SAFETY FENCE

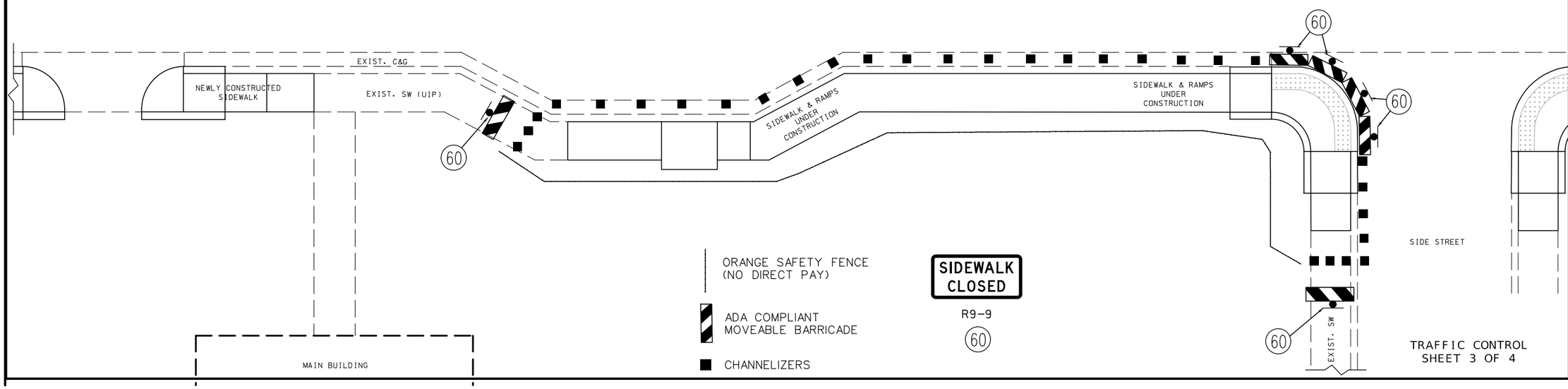


NO DIRECT PAY.
PLASTIC SAFETY NETTING USED FOR BARRICADE FENCING SHALL BE SUPPORTED WITH T-POST, ADEQUATE FOUNDATIONS, AND BALLAST SO THAT THE FENCE REMAINS TAUT AND IN AN UP-RIGHT POSITION.

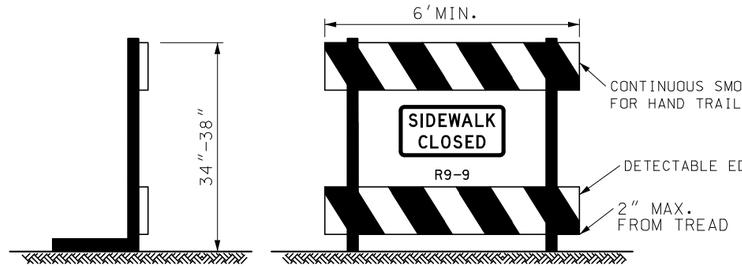
MULTI-LANE TYPICAL SIDEWALK CLOSURE

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
ROBERT B. GREEN
NUMBER PE-25339
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED: 3/3/2025

ROUTE	STATE
VAR.	MO
DISTRICT	SHEET NO.
SW	42

COUNTY: NEWTON
JOB NO.: J7S3506
CONTRACT ID.:
PROJECT NO.:
BRIDGE NO.:

DESCRIPTION	DATE

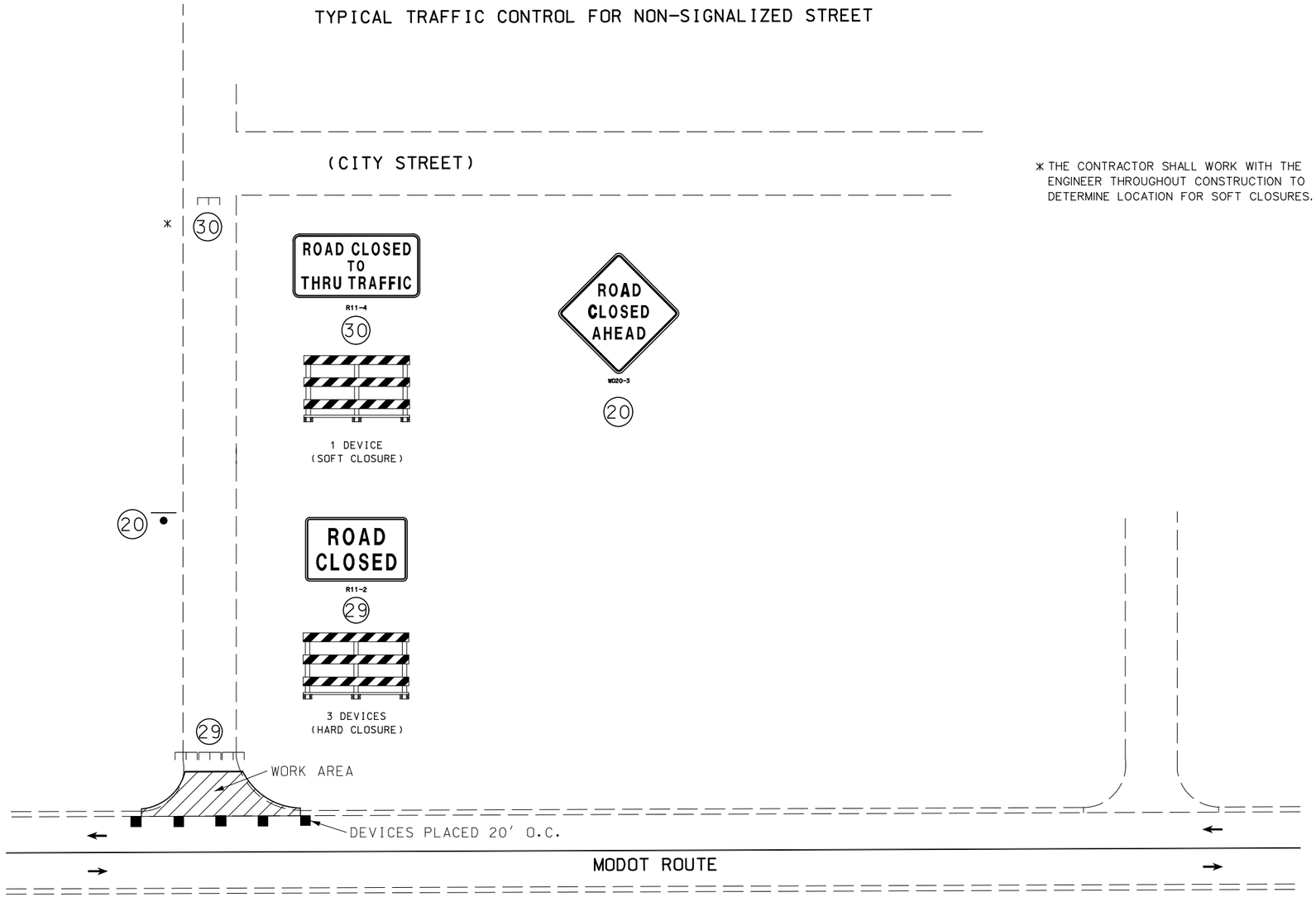
IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

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

Bartlett & West
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TRAFFIC CONTROL
SHEET 3 OF 4

TYPICAL TRAFFIC CONTROL FOR NON-SIGNALIZED STREET



* THE CONTRACTOR SHALL WORK WITH THE ENGINEER THROUGHOUT CONSTRUCTION TO DETERMINE LOCATION FOR SOFT CLOSURES.

TRAFFIC CONTROL
SHEET 4 OF 4

STATE OF MISSOURI
ROBERT B. GREEN
NUMBER PE-25339
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED 3/3/2025

ROUTE	STATE
VAR.	MO
DISTRICT	SHEET NO.
SW	43

COUNTY: NEWTON
JOB NO.: J7S3506
CONTRACT ID.:
PROJECT NO.:
BRIDGE NO.:

DESCRIPTION	DATE

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

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

Bartlett & West
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PHONE 573-634-3181
CERTIFICATE OF AUTHORITY NO. 000167 - ENGINEERING
WWW.BARTLETTWEST.COM

REVISED: 11-18-2021

NOTES:

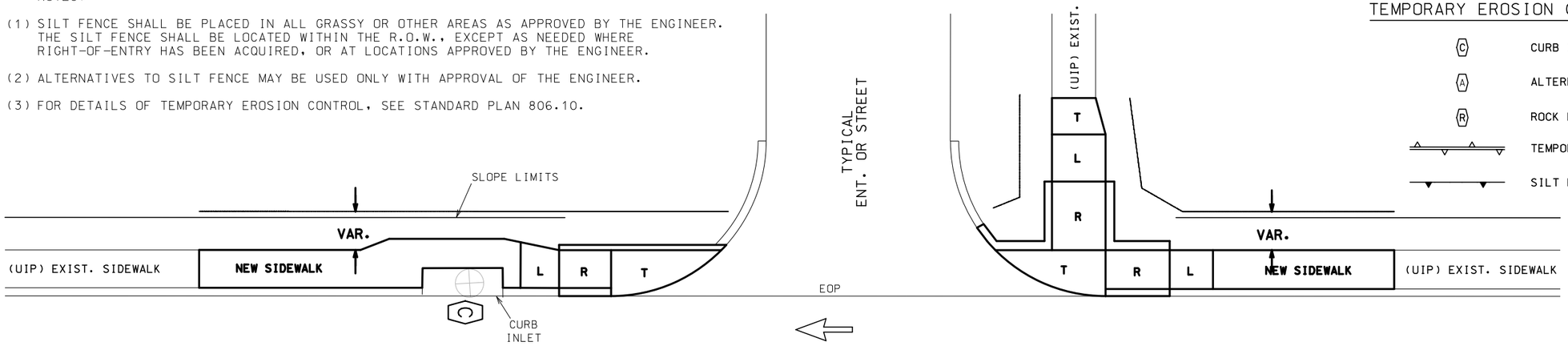
(1) SILT FENCE SHALL BE PLACED IN ALL GRASSY OR OTHER AREAS AS APPROVED BY THE ENGINEER. THE SILT FENCE SHALL BE LOCATED WITHIN THE R.O.W., EXCEPT AS NEEDED WHERE RIGHT-OF-ENTRY HAS BEEN ACQUIRED, OR AT LOCATIONS APPROVED BY THE ENGINEER.

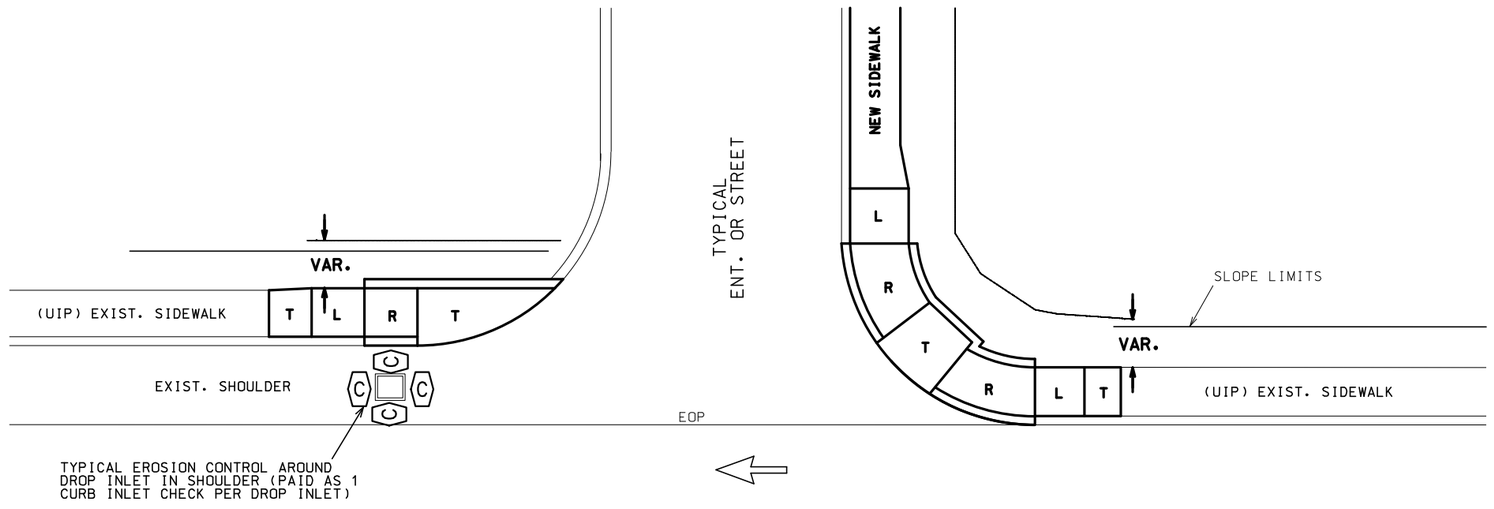
(2) ALTERNATIVES TO SILT FENCE MAY BE USED ONLY WITH APPROVAL OF THE ENGINEER.

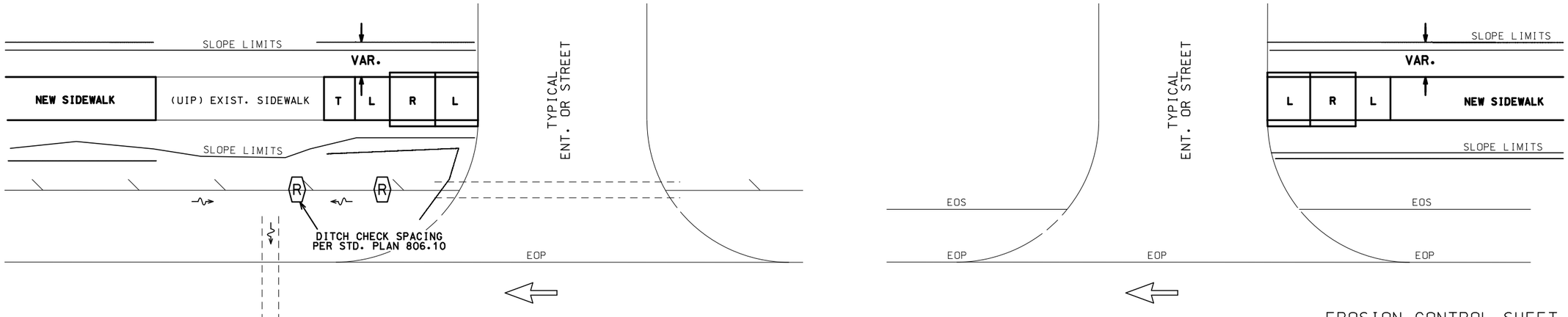
(3) FOR DETAILS OF TEMPORARY EROSION CONTROL, SEE STANDARD PLAN 806.10.

TEMPORARY EROSION CONTROL LEGEND

- (C) CURB INLET CHECK
- (A) ALTERNATE CHECK
- (R) ROCK DITCH CHECK
- TEMPORARY BERM
- SILT FENCE







NOT TO SCALE

TYPICAL EROSION CONTROL APPLICATIONS
FOR NEW CURB RAMP & SIDEWALK CONSTRUCTION

EROSION CONTROL SHEET
SHEET 1 OF 1

STATE OF MISSOURI
ROBERT B. GREEN
NUMBER PE-25339
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED SEALED AND DATED ELECTRONICALLY.

DATE PREPARED 3/3/2025
ROUTE VAR. | STATE MO
DISTRICT SW | SHEET NO. 44
COUNTY NEWTON
JOB NO. J7S3506
CONTRACT ID.
PROJECT NO.
BRIDGE NO.

DESCRIPTION	DATE

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

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

Bartlett & West
601 MONROE ST. SUITE 201 - JEFFERSON CITY, MO 65101
PHONE 573-634-3181
CERTIFICATE OF AUTHORITY NO. 000167 - ENGINEERING
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SUMMARY OF SIGNAL QUANTITIES

PAY ITEM	DESCRIPTION	UNIT	QUAN	BUSINESS 60			
				AT COLLEGE	AT HARMONY	SCHOOL CROSSING	SOUTH
902.08-11	SIGNAL HEAD, TYPE 1S, PEDESTRIAN	EA	17	8	1	2	6
902.27-08	POST, SIGNAL 8 FT	EA	16	7	1	2	6
902.49-21	ACCESSIBLE PEDESTRIAN SIGNAL	EA	20	8	2	2	8
902.50-20	CONDUIT, 1 IN., LOOP DETECTOR WITH TRACER WIRE	LF	139				139
902.52-00	CONDUIT, 2 IN., TRENCH WITH TRACER WIRE	LF	19	19			
902.53-00	CONDUIT, 3 IN., TRENCH WITH TRACER WIRE	LF	404	110	35	52	207
902.73-00	CONDUIT, 3 IN., PUSHED WITH TRACER WIRE	LF	540	207		78	255
902.82-01	CABLE, 1 AWG 1 CONDUCTOR, POWER	LF	50	50			
902.83-08	CABLE, 16 AWG 2 CONDUCTOR	LF	2,640	790	200	200	1,450
902.83-10	CABLE, 16 AWG 5 CONDUCTOR	LF	2,660	800	200	200	1,460
902.83-11	CABLE, 16 AWG 7 CONDUCTOR	LF	2,140	370			1,770
902.85-00	CABLE, LOOP DETECTOR, IN DUCT	LF	2,200				2,200
902.85-10	CABLE, LOOP DETECTOR, LEAD-IN	LF	1,860				1,860
902.88-20	PULL BOX, CONCRETE, STANDARD	EA	7	3		2	2
902.88-21	PULL BOX, CONCRETE, DOUBLE, TYPE A	EA	2	1			1
902.91-00	BASE, CONCRETE	CY	8.9	4.4	0.9	0.9	2.7
902.99-02	MISC. {2070 SIGNAL CONTROLLER AND CABINET	EA	1	1			
902.99-02{1}	MISC. {RELOCATE PED. POST}	EA	1		1		
902.99-02{2}	MISC. {RELOCATE COUNTDOWN SIGNAL HEAD}	EA	1		1		
902.99-02{3}	MISC. {PUSH BUTTON EXTENSION}	EA	3				3
902.99-03	MISC. {CABLE, RADAR}	LF	340	340			

✳ SIGNAL QUANTITIES SHOWN ON THIS SHEET ARE FOR INFORMATIONAL PURPOSES ONLY. SEE INDIVIDUAL SIGNAL QUANTITY SHEETS FOR OFFICIAL QUANTITIES.

SUMMARY OF SIGNAL QUANTITIES
SIGNAL SHEET 1 OF 13

STATE OF MISSOURI
JASON MICHAEL SOMMERER
NUMBER PE-2008002211
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED 4/21/2025
ROUTE VAR. | STATE MO
DISTRICT SW | SHEET NO. 45
COUNTY NEWTON
JOB NO. J7S3506
CONTRACT ID.
PROJECT NO.
BRIDGE NO.

DESCRIPTION | DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
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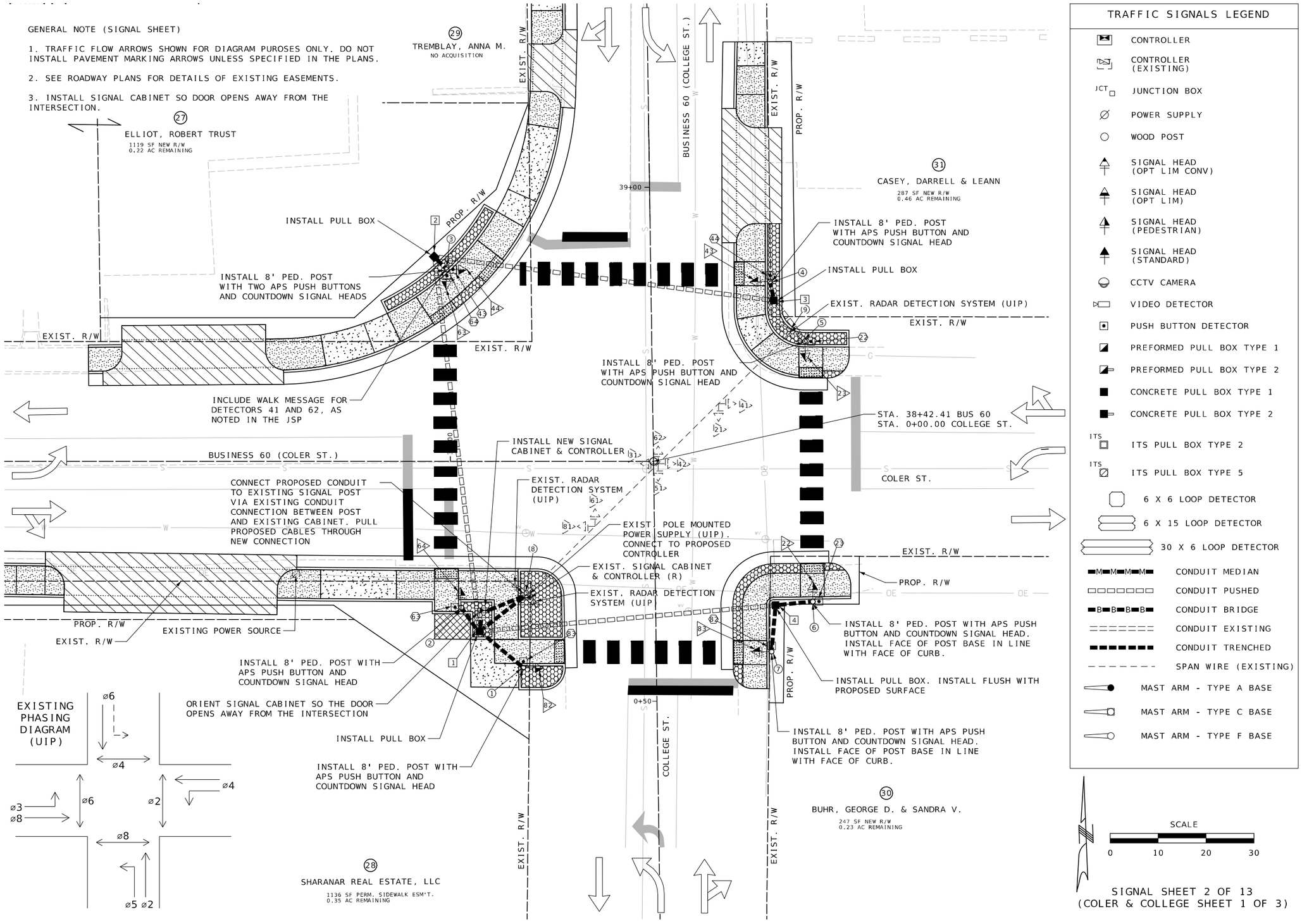
IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

GENERAL NOTE (SIGNAL SHEET)

1. TRAFFIC FLOW ARROWS SHOWN FOR DIAGRAM PUROSES ONLY. DO NOT INSTALL PAVEMENT MARKING ARROWS UNLESS SPECIFIED IN THE PLANS.

2. SEE ROADWAY PLANS FOR DETAILS OF EXISTING EASEMENTS.

3. INSTALL SIGNAL CABINET SO DOOR OPENS AWAY FROM THE INTERSECTION.



TRAFFIC SIGNALS LEGEND

- CONTROLLER
- CONTROLLER (EXISTING)
- JCT JUNCTION BOX
- POWER SUPPLY
- WOOD POST
- SIGNAL HEAD (OPT LIM CONV)
- SIGNAL HEAD (OPT LIM)
- SIGNAL HEAD (PEDESTRIAN)
- SIGNAL HEAD (STANDARD)
- CCTV CAMERA
- VIDEO DETECTOR
- PUSH BUTTON DETECTOR
- PREFORMED PULL BOX TYPE 1
- PREFORMED PULL BOX TYPE 2
- CONCRETE PULL BOX TYPE 1
- CONCRETE PULL BOX TYPE 2
- ITS ITS PULL BOX TYPE 2
- ITS ITS PULL BOX TYPE 5
- 6 X 6 LOOP DETECTOR
- 6 X 15 LOOP DETECTOR
- 30 X 6 LOOP DETECTOR
- CONDUIT MEDIAN
- CONDUIT PUSHED
- CONDUIT BRIDGE
- CONDUIT EXISTING
- CONDUIT TRENCHED
- SPAN WIRE (EXISTING)
- MAST ARM - TYPE A BASE
- MAST ARM - TYPE C BASE
- MAST ARM - TYPE F BASE

SCALE
0 10 20 30

SIGNAL SHEET 2 OF 13
(COLER & COLLEGE SHEET 1 OF 3)

STATE OF MISSOURI
JASON MICHAEL SOMMERER
NUMBER PE-2006002211
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED, AND DATED ELECTRONICALLY.

DATE PREPARED 3/3/2025

ROUTE	STATE
VAR.	MO
DISTRICT	SHEET NO.
SW	46

COUNTY NEWTON
JOB NO. J7S3506
CONTRACT ID.
PROJECT NO.
BRIDGE NO.

DATE	DESCRIPTION

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

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

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CONDUIT (WITH #14 TRACER WIRE)

FROM	TO	CENTER TO CENTER DISTANCE	TRENCH 2"	TRENCH 3"	PUSHED 3"	REMARKS
SC	PS	10	19			&&
SC	PB1	4		6		TWO RUNS OF 3'
PB1	1	14		15		
PB1	2	10		11		
PB1	8	13		48		TWO RUNS OF 24' (&&)
PB4	6	6		7		
PB4	7	12		13		
PB4	PB1	62			60	
PB3	4	4		5		
PB3	PB2	72			70	
PB2	3	4		5		
PB2	PB1	79			77	
	TOTALS		19	110	207	

&& = ADDITIONAL 10' PER RUN PROVIDED FOR CONNECTION TO EXISTING POST

CABLE

FROM	TO	CENTER TO CENTER DISTANCE	POWER 1c#1	POWER 1c#8	CONTROL 2c #16	CONTROL 5c #16	CONTROL 7c #16	CONTROL RADAR	DETECTOR 1c #14 IN DUCT	DETECTOR 2c #14 LEAD-IN CABLE	REMARKS
SC	1	14			37	38					
SC	2	10			33	34					
SC	8	17					373	102			
SC	3	87			116	117					
SC	4	158			193	194					
SC	5	165			200	201					
SC	9	94						236			
SC	6	72			101	102					
SC	7	78			107	108					
SC	PS	10	48								THREE RUNS OF 16'
SUBTOTALS			48		787	794	373	338			
TOTALS			50		790	800	370	340			

POST NUMBER	PULL BOX NUMBER	LOCATION QUADRANT	STATION	OFFSET	BASE C	BASE CONCRETE** (CU. YDS.)	PULL BOX CONCRETE STANDARD	PULL BOX CONCRETE DOUBLE, TYPE A	PULL BOX CONCRETE DOUBLE, TYPE B	PULL BOX DRAIN TYPE* I	PULL BOX DRAIN TYPE* II A	PULL BOX DRAIN TYPE* II B	PULL BOX DRAIN TYPE* II C	UIP EXISTING*	ADJUST EXISTING	POST TOP MOUNT POST 8 FT.	POST TOP MOUNT POST &-8 FT.	POST TOP MOUNT POST 15 FT.	POST UIP EXISTING*
			BUSINESS 60																
SC		SW CORNER	38+06.68	RT. 31.6'		1.31													
1		SW CORNER	38+15.24	RT. 43.1'	1	0.44										1			
2		SW CORNER	38+02.29	RT. 30.5'	1	0.44										1			
	PB1	SW CORNER	39+06.12	RT. 35.5'				1		1									
3		NW CORNER	37+99.25	LT. 40.1'	1	0.44										1			
	PB2	NW CORNER	37+96.62	LT. 42.7'			1			1									
4		NE CORNER	38+79.95	RT. 24.8'	1	0.44										1			
5		NE CORNER	38+67.38	RT. 31.9'	1	0.44										1			
	PB3	NE CORNER	38+76.00	RT. 25.6'			1			1									
			COLLEGE STREET																
6		SE CORNER	0+29.72	LT. 32.8'	1	0.44										1			
7		SE CORNER	0+40.05	LT. 24.1'	1	0.44										1			
	PB4	SE CORNER	0+30.37	LT. 25.0'			1			1									
				SUBTOTALS		4.39													
				TOTALS		4.4	3	1								7			

& = RELOCATE EXISTING POST

POWER SUPPLY

LOCATION APPROACH	LOCATION STATION	LOCATION OFFSET	POWER SUPPLY ASSEMBLY DRAWING 902.15	POWER SUPPLY ASSEMBLY DRAWING	CIRCUIT BREAKER TRIP RATING* CONTROLLER AUXILIARY BREAKER	CIRCUIT BREAKER TRIP RATING* POWER SUPPLY DISCONNECT CONT & SIGNAL LAMPS	CIRCUIT BREAKER TRIP RATING* POWER SUPPLY DISCONNECT MAIN BREAKER SIGNALS	CIRCUIT BREAKER TRIP RATING* POWER SUPPLY DISCONNECT MAIN BREAKER LIGHTING	LIGHTING CONTROL * (ON POWER SUPPLY) 120 VOLT CONTROL CABINET	LIGHTING CONTROL * (ON POWER SUPPLY) MAIN BREAKER	SERVICE POLE CONTRACT FURNISH	SERVICE POLE UTILITY COMPANY
			Type		Amps	Amps	Amps	100 Amps		Amps	CK.	FT.
SW CORNER	UIP	UIP	Type		Amps	Amps	Amps	100 Amps		Amps	CK.	FT.

SIGNAL HEADS

POST NUMBER	FACE NUMBER	INDICATIONS 12" LENS CONVENTIONAL R	RL	Y	YL	YR†	FYL	G	S	L	R†	1s	INDICATIONS 12" LENS OPTICAL LIMITING R	Y	YL	YR†	YL	YR†	G	S	L	R†	VISORS * 12" LENS	VISORS * PED.	RELOCATE EXISTING	UIP EXISTING *
1	82											1												1		
2	64											1												1		
3	44											1												1		
3	63											1												1		
4	43											1												1		
5	23											1												1		
6	22											1												1		
7	83											1												1		
TOTALS												8														

REMARKS

ALL LENGTHS AND SPACINGS ARE IN FEET UNLESS OTHERWISE INDICATED.

* ITEMS FOR WHICH SEPARATE PAYMENT WILL NOT BE MADE.

** SEE STANDARD PLANS 902.10 AND 902.30 FOR CONCRETE REQUIREMENTS ON BASES.

*** USE D3-16 FOR ONE LINE. USE D3-18 FOR TWO LINE.

SIGNAL STRUCTURES WHICH WILL EXCEED THE DIMENSION LIMITS SHOWN ON STANDARD PLAN SHEETS IN SECTION 902 AND ANY OTHER INSTALLATION WHERE THE DETAILS OF CONSTRUCTION ARE NOT FURNISHED IN THE CONTRACT PLANS, SHALL BE DESIGNED BY A PROFESSIONAL ENGINEER IN ACCORDANCE WITH THE 2001 AASHTO STANDARD SPECIFICATIONS FOR STRUCTURAL SUPPORTS FOR HIGHWAY SIGNS, LUMINAIRES AND TRAFFIC SIGNALS, 4TH EDITION, AND LATEST INTERIMS. THE STRUCTURE SHALL BE DESIGNED AS IMPORTANCE CATEGORY I FOR FATIGUE WITH A 50-YEAR DESIGN LIFE. THE CONTRACTOR SHALL SUBMIT A SET OF SHOP DETAIL DRAWINGS INCLUDING WELD PROCEDURE SPECIFICATIONS AND DESIGN COMPUTATIONS FOR MODOT RECORDS AND REFERENCE. THE SUBMITTED DRAWINGS AND CALCULATIONS SHALL BE SIGNED AND SEALED IN ACCORDANCE WITH THE LAWS RELATING TO ARCHITECTS AND PROFESSIONAL ENGINEERS (CHAPTER 327, RSMO.), AND SHALL INCLUDE A TITLE BLOCK OR SUMMARY SHEET WHICH LISTS AND CERTIFIES THAT THE PRODUCT MEETS ALL OF THE SPECIFIED DESIGN CRITERIA.

CONTROLLER ASSEMBLY AND AUXILIARY EQUIPMENT

LOCATION QUADRANT	SYSTEM MASTER (CLOSED LOOP) NEMA	SYSTEM MASTER (CLOSED LOOP) 2070	ACTUATED NEMA	ACTUATED 2070	ON-OFF* SWITCH TYPE I	ON-OFF* SWITCH TYPE II	COORDINATION INTERFACE * 12C/7C HARDWIRE (1) MASTER	COORDINATION INTERFACE * 12C/7C HARDWIRE (1) LOCAL	TIME BASE	COORDINATION INTERFACE * CLOSED LOOP NEMA	COORDINATION INTERFACE * CLOSED LOOP 2070	COORDINATION INTERFACE * FIBER	TIME * CLOCK	NEMA CABINET TYPE * E	NEMA CABINET TYPE * EV	NEMA CABINET TYPE * DOUBLE	2070 CABINET TYPE * 332	2070 CABINET TYPE * 336S	2070 SOFTWARE * BITRAN	2070 SOFTWARE * WAPITI
SW CORNER				1	1				1				1				1			

SIGNAL SIGNS

QUANTITY	MUTCD SIGN NUMBER	SIZE	AREA	SIGN TOTAL AREA ITEM NO. 9020833	SIGN MOUNTING HARDWARE ITEM NO. 9020834
		INCHES	SQ.FT.	SQ.FT.	EA.
	R10-10L	24 X 30	5.0		
	R10-10R	24 X 30	5.0		
	R3-5L	30 X 36	7.5		
	R3-5R	30 X 36	7.5		
	R3-5A	30 X 36	7.5		
	R3-6L	30 X 36	7.5		
	R3-6R	30 X 36	7.5		
	R3-2	24 X 24	4.0		
	R3-1	24 X 24	4.0		
	R3-3	24 X 24	4.0		
	D3-1 ***	90 X 18	11.3		
	D3-1 ***	60 X 18	7.5		
8	R10-3E	9 X 15	0.9	&&	&&
	R10-11A	24 X 30	5.0		
	R10-13	36 X 24	6.0		
	R10-27A	30 X 36	7.5		
	R10-12	30 X 36	7.5		
			SUBTOTAL	&&	&&
			TOTAL	&&	&&

&& = PEDESTRIAN SIGNS AND MOUNTING HARDWARE INCLUDED IN BID ITEM FOR APS.

DETECTOR SCHEDULE

DETECTOR NUMBER	PHASE	TYPE PUSH BUTTON APS	TYPE PUSH BUTTON EXTENSION	RELOCATE EXISTING APS	UIP EXISTING APS *	REMARKS
81	8	1				
61	6	1				
62	6	1				INCLUDE WALK MESSAGE FOR DETECTORS 41 AND 62, AS NOTED IN THE JSP
41	4	1				
42	4	1				
21	2	1				
22	2	1				
82	8	1				
TOTALS		8				

BUSINESS 60 (COLER ST.) &
BUSINESS 60 (COLLEGE ST.)

INTERSECTION

SIGNAL SHEET 3 OF 13
(COLER ST. AT COLLEGE ST. SHEET 2 OF 3)

STATE OF MISSOURI
JASON MICHAEL SOMMERER
NUMBER PE-2008002211
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED 4/21/2025
ROUTE VAR. | STATE MO
DISTRICT SW | SHEET NO. 47
COUNTY NEWTON
JOB NO. J7S3506
CONTRACT ID.
PROJECT NO.
BRIDGE NO.

DESCRIPTION | DATE

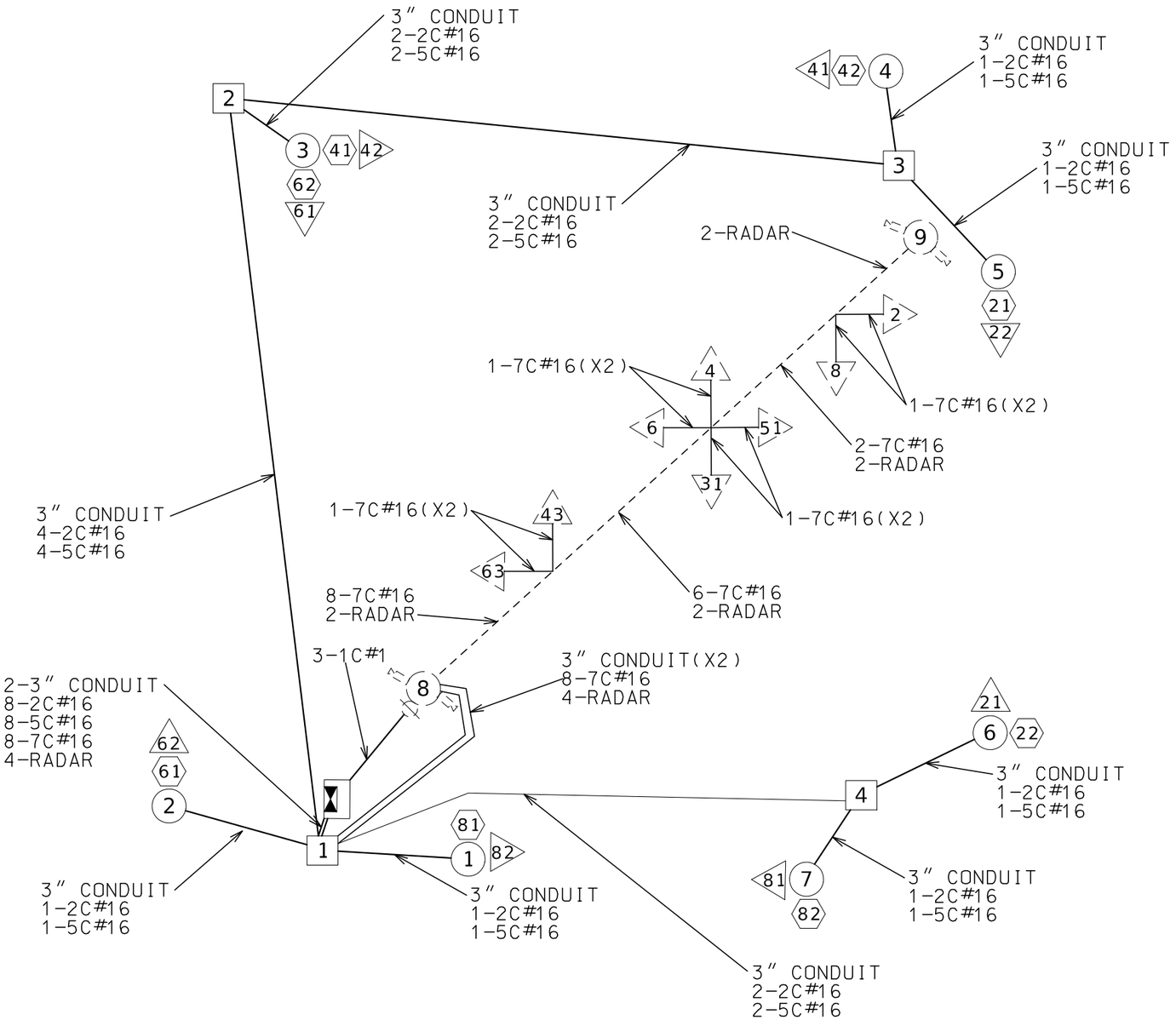
IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

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

Bartlett & West
601 MONROE ST. SUITE 201 - JEFFERSON CITY, MO 65101
PHONE 573-634-3161
CERTIFICATE OF AUTHORITY NO. 000167 - ENGINEERING
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EFFECTIVE 12-01-17

WIRING DIAGRAM



LEGEND

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

STATE OF MISSOURI
JASON MICHAEL SOMMERER
NUMBER PE-2008002211
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED 3/3/2025

ROUTE	STATE
VAR.	MO
DISTRICT	SHEET NO.
SW	48

COUNTY: NEWTON
JOB NO.: J7S3506
CONTRACT ID.:
PROJECT NO.:
BRIDGE NO.:

DESCRIPTION	DATE

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

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

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SIGNAL SHEET 4 OF 13
(COLER ST. AT COLLEGE ST. SHEET 3 OF 3)

BUSINESS 60 (COLER ST.) & BUSINESS 60 (COLLEGE ST.)
INTERSECTION

D-37D

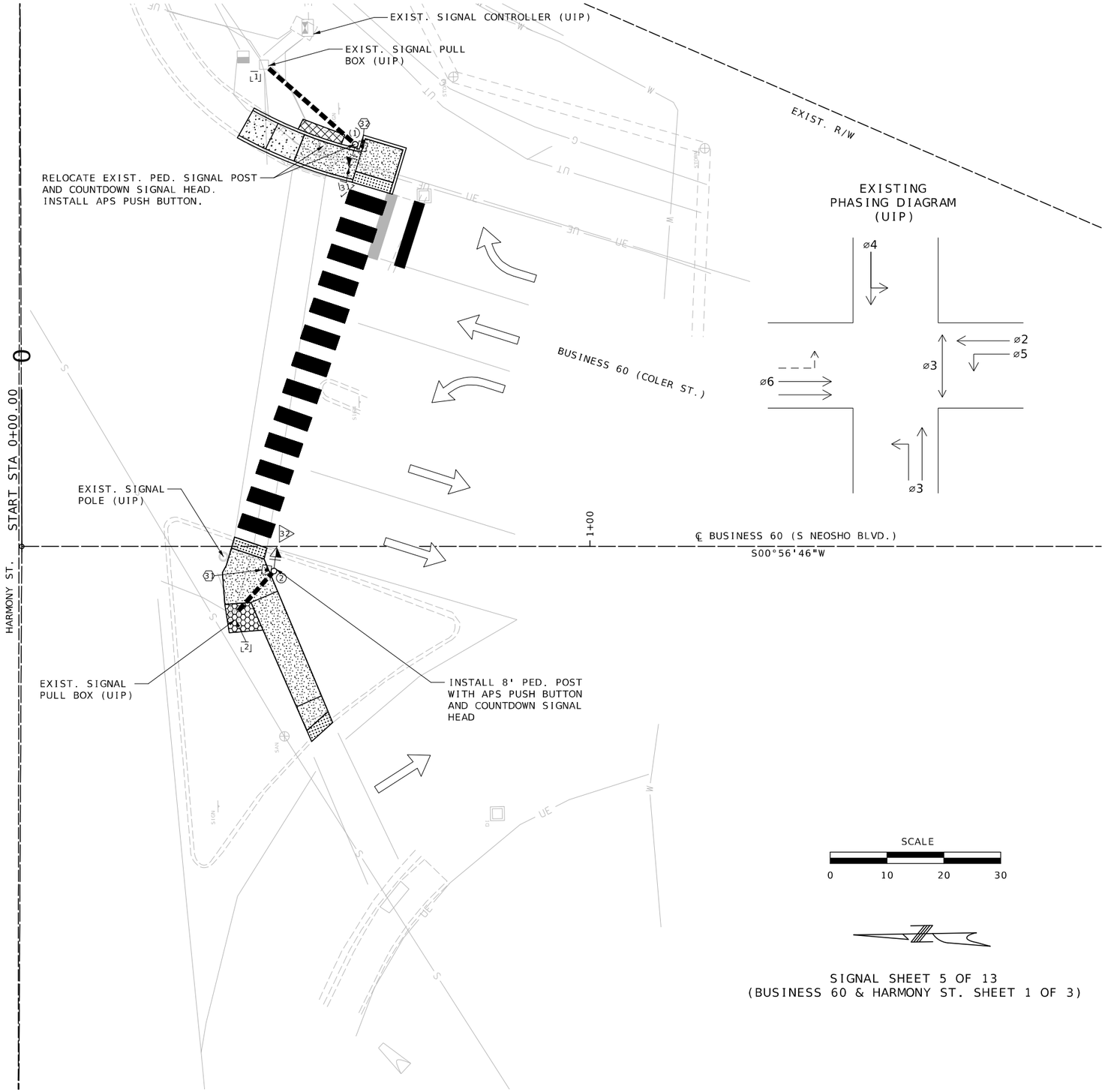
TRAFFIC SIGNALS LEGEND

- CONTROLLER
- CONTROLLER (EXISTING)
- JCT JUNCTION BOX
- POWER SUPPLY
- WOOD POST
- SIGNAL HEAD (OPT LIM CONV)
- SIGNAL HEAD (OPT LIM)
- SIGNAL HEAD (PEDESTRIAN)
- SIGNAL HEAD (STANDARD)
- CCTV CAMERA
- VIDEO DETECTOR
- PUSH BUTTON DETECTOR
- PREFORMED PULL BOX TYPE 1
- PREFORMED PULL BOX TYPE 2
- CONCRETE PULL BOX TYPE 1
- CONCRETE PULL BOX TYPE 2
- ITS ITS PULL BOX TYPE 2
- ITS ITS PULL BOX TYPE 5
- 6 X 6 LOOP DETECTOR
- 6 X 15 LOOP DETECTOR
- 30 X 6 LOOP DETECTOR
- CONDUIT MEDIAN
- CONDUIT PUSHED
- CONDUIT BRIDGE
- CONDUIT EXISTING
- CONDUIT TRENCHED
- SPAN WIRE
- MAST ARM - TYPE A BASE
- MAST ARM - TYPE C BASE
- MAST ARM - TYPE F BASE

GENERAL NOTE (SIGNAL SHEETS)

1. TRAFFIC FLOW ARROWS SHOWN FOR DIAGRAM PURPOSES ONLY. DO NOT INSTALL PAVEMENT MARKING ARROWS UNLESS SPECIFIED IN THE PLANS.

2. SEE ROADWAY PLANS FOR DETAILS OF EXISTING EASEMENTS.



EXISTING PHASING DIAGRAM (UIP)

SCALE

0 10 20 30

SIGNAL SHEET 5 OF 13
(BUSINESS 60 & HARMONY ST. SHEET 1 OF 3)

STATE OF MISSOURI
JASON MICHAEL SOMMERER
NUMBER PE-2008002211
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED 3/3/2025

ROUTE	STATE
VAR.	MO
DISTRICT	SHEET NO.
SW	49

COUNTY NEWTON

JOB NO. J7S3506

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DATE	DESCRIPTION

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

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

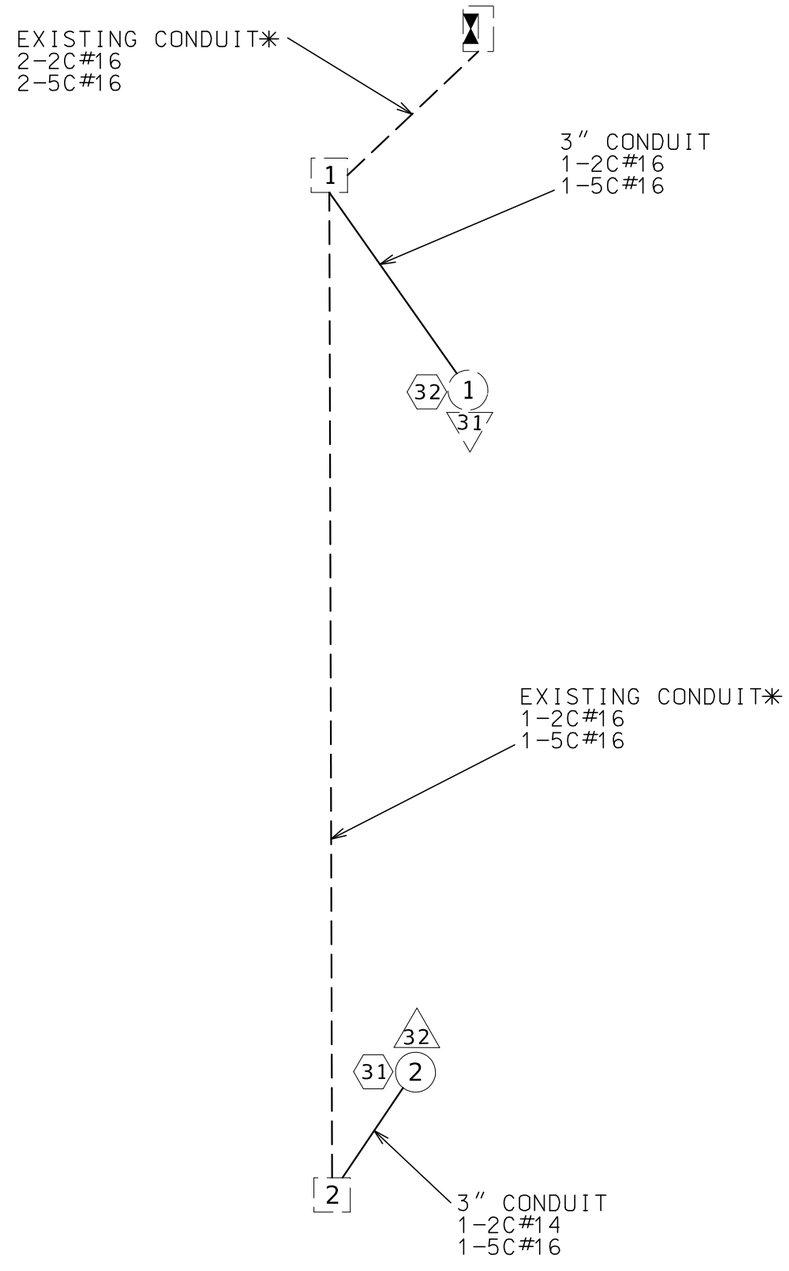
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PHONE 573-634-3181
CERTIFICATE OF AUTHORITY NO. 000167 - ENGINEERING
WWW.BARTLETTWEST.COM

CONDUIT (WITH #14 TRACER WIRE)

FROM	TO	CENTER TO CENTER DISTANCE	TRENCH 3″	PUSHED 3″
SC	PB1	10	USE EXISTING	
PB1	1	22	23	
PB2	2	11	12	
PB2	PB1	98	USE EXISTING	

EFFECTIVE 12-01-17

WIRING DIAGRAM



LEGEND

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

*CABLES SHOWN ARE PROPOSED. EXISTING CONDUIT CONTAINS ADDITIONAL CABLES.

SIGNAL SHEET 7 OF 13
(BUSINESS 60 AT HARMONY ST. SHEET 3 OF 3)

BUSINESS 60 (S NEOSHO BLVD.) & HARMONY ST.

INTERSECTION

D-37D

STATE OF MISSOURI
JASON MICHAEL SOMMERER
NUMBER PE-2008002211
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED 3/3/2025

ROUTE	STATE
VAR.	MO
DISTRICT	SHEET NO.
SW	51

COUNTY NEWTON

JOB NO. J7S3506

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION	DATE

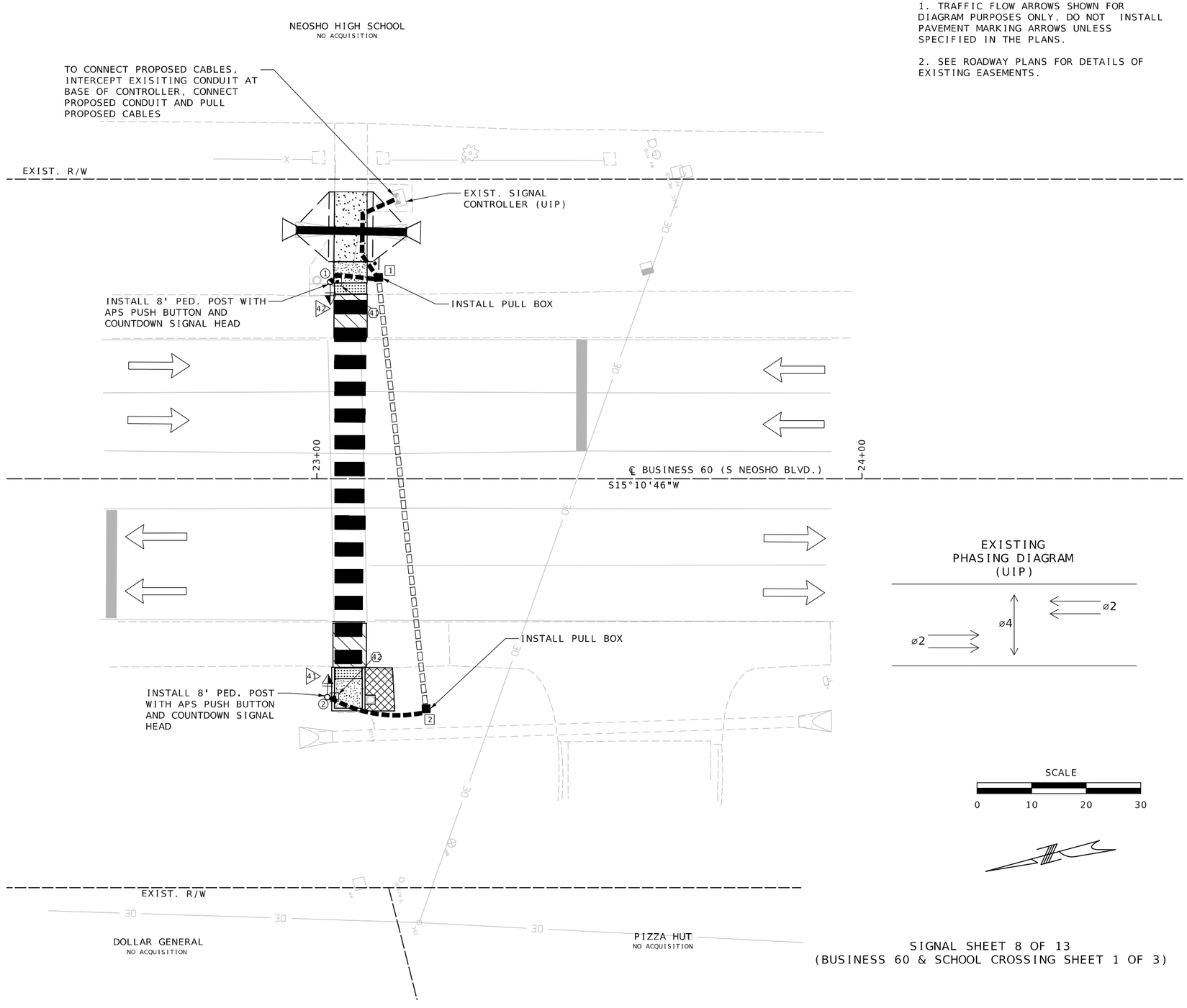
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TRAFFIC SIGNALS LEGEND

- CONTROLLER
- CONTROLLER (EXISTING)
- JCT JUNCTION BOX
- POWER SUPPLY
- WOOD POST
- SIGNAL HEAD (OPT LIM CONV)
- SIGNAL HEAD (OPT LIM)
- SIGNAL HEAD (PEDESTRIAN)
- SIGNAL HEAD (STANDARD)
- CCTV CAMERA
- VIDEO DETECTOR
- PUSH BUTTON DETECTOR
- PREFORMED PULL BOX TYPE 1
- PREFORMED PULL BOX TYPE 2
- CONCRETE PULL BOX TYPE 1
- CONCRETE PULL BOX TYPE 2
- ITS PULL BOX TYPE 2
- ITS PULL BOX TYPE 5
- 6 X 6 LOOP DETECTOR
- 6 X 15 LOOP DETECTOR
- 30 X 6 LOOP DETECTOR
- CONDUIT MEDIAN
- CONDUIT PUSHED
- CONDUIT BRIDGE
- CONDUIT EXISTING
- CONDUIT TRENCHED
- SPAN WIRE
- MAST ARM - TYPE A BASE
- MAST ARM - TYPE C BASE
- MAST ARM - TYPE F BASE



GENERAL NOTE (SIGNAL SHEETS)

1. TRAFFIC FLOW ARROWS SHOWN FOR DIAGRAM PURPOSES ONLY. DO NOT INSTALL PAVEMENT MARKING ARROWS UNLESS SPECIFIED IN THE PLANS.

2. SEE ROADWAY PLANS FOR DETAILS OF EXISTING EASEMENTS.

EXISTING
PHASING DIAGRAM
(UIP)

SCALE

0 10 20 30

SIGNAL SHEET 8 OF 13
(BUSINESS 60 & SCHOOL CROSSING SHEET 1 OF 3)

STATE OF MISSOURI
JASON MICHAEL SOMMERER
NUMBER PE-2008002211
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED
3/3/2025

ROUTE	STATE
VAR.	MO
DISTRICT	SHEET NO.
SW	52

COUNTY
NEWTON

JOB NO.
J7S3506

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION	DATE

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

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

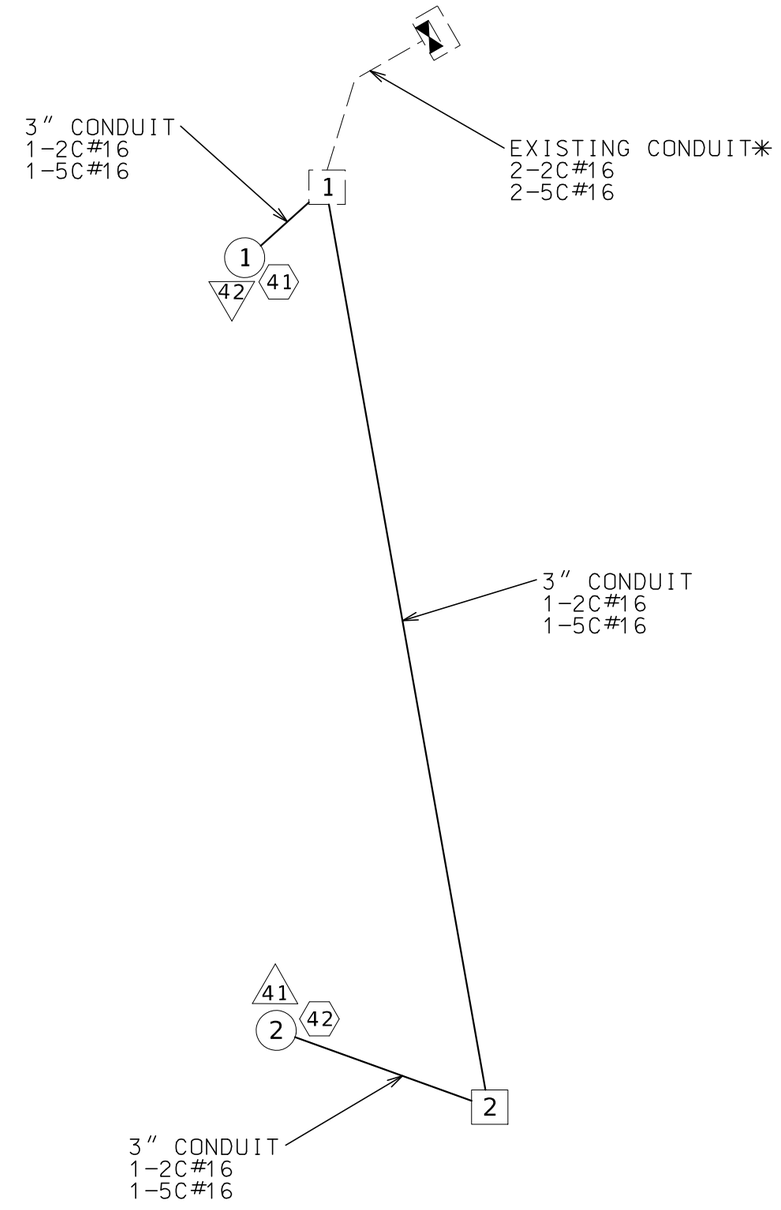
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CONDUIT (WITH #14 TRACER WIRE)

FROM	TO	CENTER TO CENTER DISTANCE	TRENCH 3″	PUSHED 3″
SC	PB1	20	21	
PB1	1	10	11	
PB2	2	19	20	
PB2	PB1	80		78

EFFECTIVE 12-01-17

WIRING DIAGRAM



LEGEND

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

*CABLES SHOWN ARE PROPOSED. EXISTING CONDUIT CONTAINS ADDITIONAL CABLES.

SIGNAL SHEET 10 OF 13
(BUSINESS 50 AT SCHOOL CROSSING SHEET 3 OF 3)

BUSINESS 60 (S NEOSHO BLVD.) & SCHOOL CROSSING

INTERSECTION

D-37D

STATE OF MISSOURI
JASON MICHAEL SOMMERER
NUMBER PE-2008002211
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED 3/3/2025

ROUTE	STATE
VAR.	MO
DISTRICT	SHEET NO.
SW	54

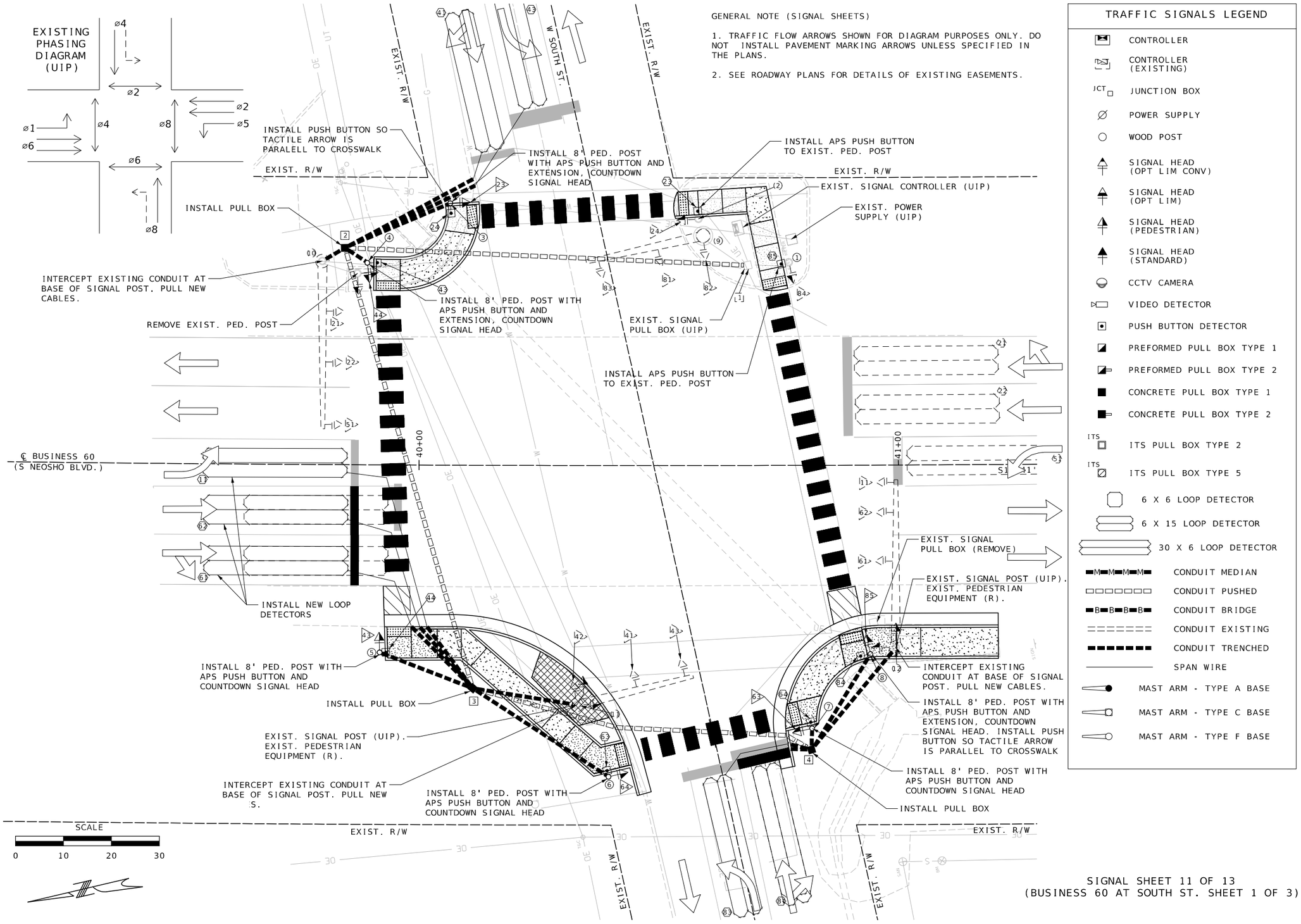
COUNTY: NEWTON
JOB NO.: J7S3506
CONTRACT ID.:
PROJECT NO.:
BRIDGE NO.:

DESCRIPTION | DATE

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

Bartlett & West
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PHONE 573-634-3181
CERTIFICATE OF AUTHORITY NO. 000167 - ENGINEERING
WWW.BARTLETTWEST.COM

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.



SIGNAL SHEET 11 OF 13
(BUSINESS 60 AT SOUTH ST. SHEET 1 OF 3)

STATE OF MISSOURI
JASON MICHAEL SOMMERER
NUMBER PE-2008002211
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED SEALED AND DATED ELECTRONICALLY.

DATE PREPARED 3/3/2025
ROUTE VAR. | STATE MO
DISTRICT SW | SHEET NO. 55
COUNTY NEWTON
JOB NO. J7S3506
CONTRACT ID.
PROJECT NO.
BRIDGE NO.

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

DATE	DESCRIPTION

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

Bartlett & West
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PHONE 573-634-3181
CERTIFICATE OF AUTHORITY NO. 000167 - ENGINEERING
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CONDUIT (WITH #14 TRACER WIRE)

FROM	TO	CENTER TO CENTER DISTANCE	TRENCH 1″	TRENCH 3″	PUSHED 3″	
PB1	SC	9		USE EXISTING		
PB1	1	9		USE EXISTING		
PB1	2	15		USE EXISTING		
PB4	7	5		6		
PB4	8	27		28		
PB4	12	36		37		
PB4	LOOPS	10	9			2 RUNS
PB4	PB3	73			71	
PB3	5	38		39		
PB3	6	24		25		
PB3	11	22		23		
PB3	PB2	101			99	
PB3	LOOPS	17	48			2 RUNS
PB2	3	34		35		
PB2	4	6		7		
PB2	10	6		7		
PB2	LOOPS	41	82			3 RUNS
PB2	PB1	87			85	
TOTALS			139	207	255	

CABLE

FROM	TO	CENTER TO CENTER DISTANCE	POWER 1c#2	POWER 1c#8	CONTROL 2c #16	CONTROL 5c #16	CONTROL 7c #16	CONTROL VIDEO	DETECTOR 1c #14 IN DUCT	DETECTOR 2c #14 LEAD-IN CABLE	
SC	1	17			40	41					
SC	2	23			46	47					
SC	3	129			158	159					
SC	4	100			129	130					
SC	10	101					389				
SC	PB2	96								339	2 LICs
PB2	(41)	48							321		
PB2	(43)	62							335		
SC	PB3	191								642	3 LICs
PB3	(61)	39							312		
PB3	(62)	47							320		
PB3	(11)	57							330		
SC	5	212			247	248					
SC	6	225			260	261					
SC	11	213					562				
SC	7	191			232	233					
SC	8	291			332	333					
SC	12	300					811				
SC	PB4	264								879	2 LICs
PB4	(81)	10							283		
PB4	(83)	21							294		
SUBTOTALS					1,444	1,452	1,762		2,195	1,860	
TOTALS					1,450	1,460	1,770		2,200	1,860	

POST NUMBER	PULL BOX NUMBER	LOCATION QUADRANT	STATION	OFFSET	BASE C	BASE CONCRETE✱✱ (CU. YDS.)	PULL BOX CONCRETE STANDARD	CONCRETE DOUBLE, TYPE A	CONCRETE DOUBLE, TYPE B	DRAIN TYPE✱ I	DRAIN TYPE✱ II A	DRAIN TYPE✱ II B	DRAIN TYPE✱ II C	UIP EXISTING✱	ADJUST EXISTING	POST TOP MOUNT POST 8 FT.	POST TOP MOUNT POST &-8 FT.	POST TOP MOUNT POST 15 FT.	POST UIP EXISTING✱
1		SE CORNER	40+77.23	LT. 42.4′															1
2		SE CORNER	40+58.33	LT. 51.5′															1
	PB1	SE CORNER	40+68.61	LT. 41.7′										1					
3		NE CORNER	40+06.32	LT. 54.6′	1	0.44										1			
4		NE CORNER	39+88.97	LT. 42.1′	1	0.44										1			
	PB2	NE CORNER	39+84.27	LT. 45.2′				1											
5		NW CORNER	39+91.95	RT. 39.1′	1	0.44										1			
6		NW CORNER	40+39.58	RT. 64.9′	1	0.44										1			
	PB3	NW CORNER	40+11.35	RT. 46.5′				1											
7		SW CORNER	40+81.85	RT. 54.9′	1	0.44										1			
8		SW CORNER	40+94.04	RT. 39.4′	1	0.44										1			
	PB4	SW CORNER	40+81.71	RT. 54.9′				1											
					SUBTOTALS	2.64													
					TOTALS	2.7	2	1								6			

& = RELOCATE EXISTING POST

SIGNAL HEADS

POST NUMBER	FACE NUMBER	INDICATIONS 12″ LENS CONVENTIONAL R	RL	Y	YL	YR†	FYL	G	S	L	R†	1s	INDICATIONS 12″ LENS OPTICAL LIMITING R	Y	YL	YR†	YL	YR†	G	S	L	R†	VISORS ✱ 12″ LENS	PED.	RELOCATE EXISTING	UIP EXISTING ✱
1	84																									1
2	24																									1
3	23											1														
4	44											1														
5	43											1														
6	64											1														
7	63											1														
8	85											1														
TOTALS												6														

REMARKS

ALL LENGTHS AND SPACINGS ARE IN FEET UNLESS OTHERWISE INDICATED.

✱ ITEMS FOR WHICH SEPARATE PAYMENT WILL NOT BE MADE.

✱✱ SEE STANDARD PLANS 902.10 AND 902.30 FOR CONCRETE REQUIREMENTS ON BASES.

✱✱✱ USE D3-16 FOR ONE LINE. USE D3-18 FOR TWO LINE.

SIGNAL STRUCTURES WHICH WILL EXCEED THE DIMENSION LIMITS SHOWN ON STANDARD PLAN SHEETS IN SECTION 902 AND ANY OTHER INSTALLATION WHERE THE DETAILS OF CONSTRUCTION ARE NOT FURNISHED IN THE CONTRACT PLANS, SHALL BE DESIGNED BY A PROFESSIONAL ENGINEER IN ACCORDANCE WITH THE 2001 AASHTO STANDARD SPECIFICATIONS FOR STRUCTURAL SUPPORTS FOR HIGHWAY SIGNS, LUMINAIRES AND TRAFFIC SIGNALS, 4TH EDITION, AND LATEST INTERIMS. THE STRUCTURE SHALL BE DESIGNED AS IMPORTANCE CATEGORY I FOR FATIGUE WITH A 50-YEAR DESIGN LIFE. THE CONTRACTOR SHALL SUBMIT A SET OF SHOP DETAIL DRAWINGS INCLUDING WELD PROCEDURE SPECIFICATIONS AND DESIGN COMPUTATIONS FOR MODOT RECORDS AND REFERENCE. THE SUBMITTED DRAWINGS AND CALCULATIONS SHALL BE SIGNED AND SEALED IN ACCORDANCE WITH THE LAWS RELATING TO ARCHITECTS AND PROFESSIONAL ENGINEERS (CHAPTER 327, RSMO.), AND SHALL INCLUDE A TITLE BLOCK OR SUMMARY SHEET WHICH LISTS AND CERTIFIES THAT THE PRODUCT MEETS ALL OF THE SPECIFIED DESIGN CRITERIA.

SIGNAL SIGNS

QUANTITY	MUTCD SIGN NUMBER	SIZE	AREA	SIGN TOTAL AREA ITEM NO. 9020833	SIGNAL SIGN MOUNTING HARDWARE ITEM NO. 9020834
		INCHES	SQ.FT.	SQ.FT.	EA.
	R10-10L	24 X 30	5.0		
	R10-10R	24 X 30	5.0		
	R3-5L	30 X 36	7.5		
	R3-5R	30 X 36	7.5		
	R3-5A	30 X 36	7.5		
	R3-6L	30 X 36	7.5		
	R3-6R	30 X 36	7.5		
	R3-2	24 X 24	4.0		
	R3-1	24 X 24	4.0		
	R3-3	24 X 24	4.0		
	D3-1 ✱✱✱	90 X 18	11.3		
	D3-1 ✱✱✱	60 X 18	7.5		
8	R10-3E	9 X 15	0.9	&&	&&
	R10-11A	24 X 30	5.0		
	R10-13	36 X 24	6.0		
	R10-27A	30 X 36	7.5		
	R10-12	30 X 36	7.5		
			SUBTOTAL	&&	&&
			TOTAL	&&	&&

&& = PEDESTRIAN SIGNS AND MOUNTING HARDWARE INCLUDED IN BID ITEM FOR APS.

DETECTOR SCHEDULE

DETECTOR NUMBER	PHASE	TYPE PUSH BUTTON APS	TYPE PUSH BUTTON EXTENSION	RELOCATE EXISTING APS	UIP EXISTING APS ✱	INDUCTION LOOP (2) STANDARD	UIP EXISTING INDUCTION LOOP ✱
85	8	1					
23	2	1					
24	2	1	1				
43	4	1	1				
44	4	1					
63	6	1					
64	6	1					
84	8	1	1				
41	4					1	
43	4					1	
11	1					1	
62	6					1	
61	6					1	
81	8					1	
83	8					1	
21	2						1
22	2						1
51	5						1
	SUBTOTAL						
	TOTALS	8	3			7	

(2) UIP EXISTING DETECTOR CARDS. NO DIRECT PAY

BUSINESS 60 (NEOSHO BLVD.) & SOUTH ST.

INTERSECTION

SIGNAL SHEET 12 OF 13
(BUSINESS 60 AT SOUTH ST. SHEET 2 OF 3)

STATE OF MISSOURI
JASON MICHAEL SOMMERER
NUMBER PE-2008002211
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED 3/3/2025

ROUTE	STATE
VAR.	MO
DISTRICT	SHEET NO.
SW	56

COUNTY: NEWTON
JOB NO.: J7S3506
CONTRACT ID.:
PROJECT NO.:
BRIDGE NO.:

DESCRIPTION	DATE

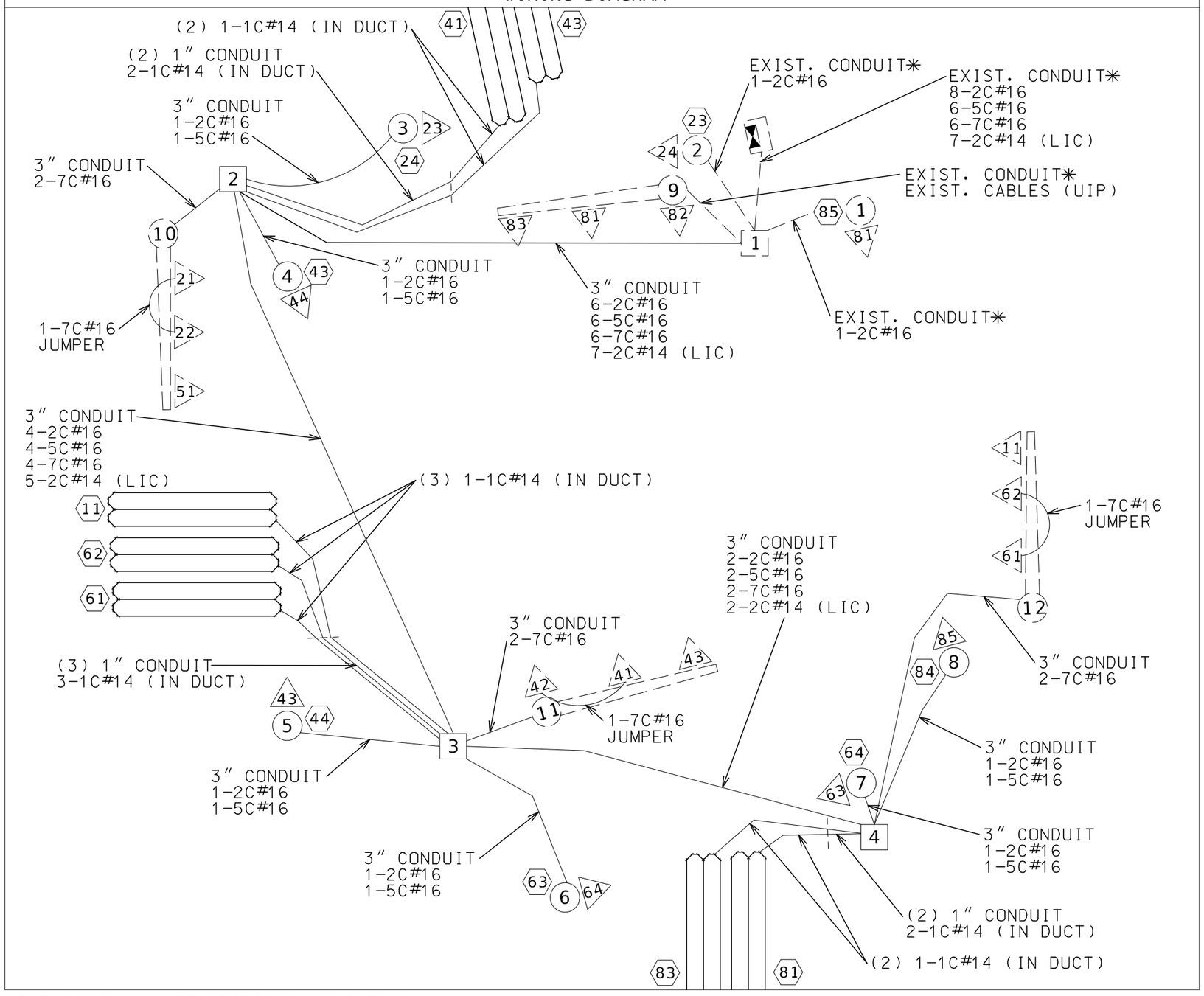
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MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
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Bartlett & West
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EFFECTIVE 12-01-17

WIRING DIAGRAM



*CABLES SHOWN ARE PROPOSED. EXISTING CONDUIT CONATINS ADDITIONAL CABLES.

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	DETECTOR WITH NUMBER
X	PEDESTRIAN SIGNAL HEAD WITH NUMBER
	SIGNAL CONTROLLER
X	PULL BOX WITH NUMBER (EXISTING)
X	POST WITH NUMBER (EXISTING)
X	POST WITH MAST ARM (EXISTING)
X	DETECTOR WITH NUMBER (EXISTING)
X >	PEDESTRIAN SIGNAL HEAD WITH NUMBER (EXISTING)
	SIGNAL CONTROLLER (EXISTING)

SIGNAL SHEET 13 OF 13
(BUSINESS 60 & SOUTH ST. SHEET 3 OF 3)

BUSINESS 60 (S NEOSHO BLVD.) & SOUTH ST.

INTERSECTION

D-37D

STATE OF MISSOURI
JASON MICHAEL SOMMERER
NUMBER PE-2008002211
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED SEALED AND DATED ELECTRONICALLY.

DATE PREPARED 3/3/2025

ROUTE	STATE
VAR.	MO
DISTRICT	SHEET NO.
SW	57

COUNTY: NEWTON
JOB NO.: J7S3506
CONTRACT ID.:
PROJECT NO.:
BRIDGE NO.:

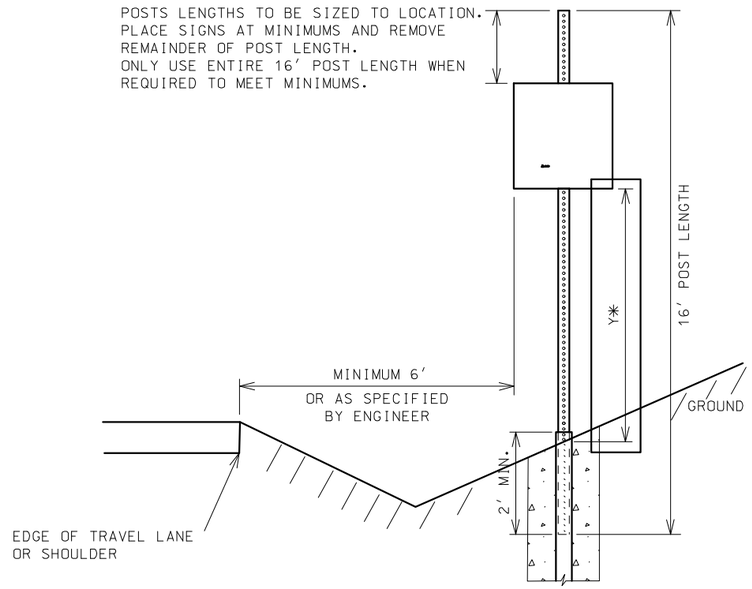
DESCRIPTION	DATE

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

Bartlett & West
601 MONROE ST. SUITE 201 - JEFFERSON CITY, MO 65101
PHONE 573-634-3181
CERTIFICATE OF AUTHORITY NO. 000167 - ENGINEERING
WWW.BARTLETTWEST.COM

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

MOUNTING HEIGHT DETAIL



* FOR RURAL AREAS – 80" MINIMUM REQUIRED WHEN SIGNS ARE LOCATED ALONG AND WITHIN A PEDESTRIAN ROUTE. IN SITUATIONS WHERE THE SIGN IS NOT LOCATED WITHIN THE PEDESTRIAN ROUTE THE MINIMUM HEIGHT COULD BE REDUCED TO 7' IF 80" IS NOT ACHEIVABLE WITH A 16' POST.
FOR URBAN AREAS – MINIMUM REQUIRED HEIGHT SHALL BE 84" WHETHER OR NOT IT IS WITHIN A PEDESTRIAN ROUTE

NOTE: PERFORATED SQUARE STEEL TUBE (PSST) POSTS ARE PAID AS 16 LINEAR FOOT. CONTRACTOR IS RESPONSIBLE TO PROPERLY PLACE SIGN AS SHOWN ABOVE IN "MOUNTING HEIGHT DETAIL"

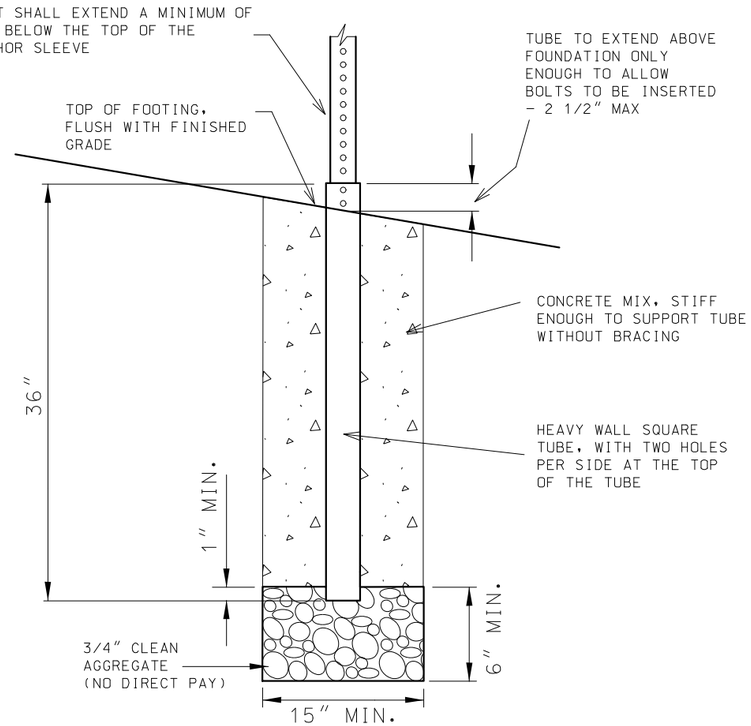
POSTS – 12 GAUGE – 2.5" X 2.5"

ANCHORS – 7 GAUGE – 3" X 3" O.D.

BREAKAWAY – CERTIFIED NCHRP 350 COMPLIANT USE REQUIRED FOR DOUBLE POST INSTALLATIONS ONLY

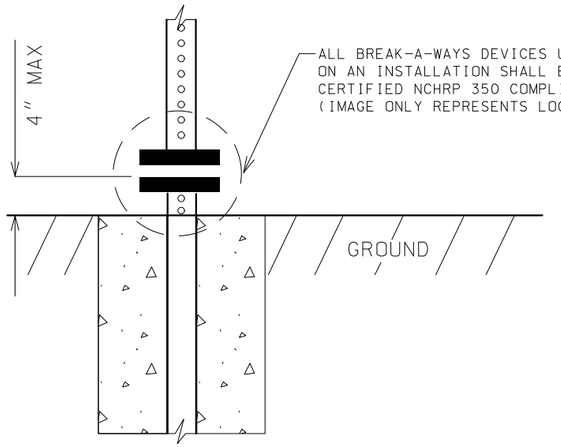
GALVANIZATION – ALL PSST POSTS, ANCHORS AND BREAKAWAY CASTINGS SHALL BE GALVANIZED PER MoDOT STANDARD SPECIFICATIONS

CONCRETE FOOTING DETAIL



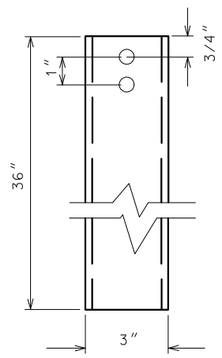
PSST CONCRETE FOOTINGS EMBEDDED PAID AS 3' LENGTH, 15" DIAMETER = 0.14 CUBIC YARDS
REQUIRED AGGREGATE CONSIDERED INCIDENTIAL AND INCLUDED IN CONCRETE FOOTING

BREAKAWAY DETAIL



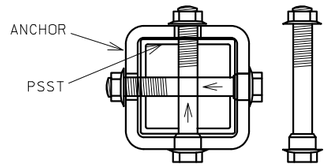
WHEN BREAKAWAY DEVICES ARE REQUIRED THE PORTION FIXED TO THE GROUND ANCHOR SHALL BE NO HIGHER THAN 4" ABOVE THE FINISHED GRADE

7 GAUGE ANCHOR FABRICATION DETAIL FOR 2.5" PSST



ANCHOR BOLT DETAIL FOR 2.5" PSST

2 SHOULDER BOLTS REQUIRED
INSTALLED PERPENDICULAR TO EACH OTHER



3/8" X 3.5" SHOULDER BOLT AND NUT

SIGNING SHEET
SHEET 1 OF 3

STATE OF MISSOURI
ROBERT B. GREEN
NUMBER PE-25339
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED 3/3/2025
ROUTE VAR. | STATE MO
DISTRICT SW | SHEET NO. 58
COUNTY NEWTON
JOB NO. J7S3506
CONTRACT ID.
PROJECT NO.
BRIDGE NO.

DESCRIPTION | DATE

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

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

Bartlett & West
601 MONROE ST., SUITE 201 - JEFFERSON CITY, MO 65101
PHONE 573-634-3181
CERTIFICATE OF AUTHORITY NO. 000167 - ENGINEERING
WWW.BARTLETTWEST.COM

SIGNS

902 SIGNAL SIGNS TABULATED ON D-37A SHEET

SIGN NO.	SIGN SIZE	STATION OR LOG MILE	HORIZ CLEAR IF NOT STD	LOCATION	SIGN DTL SHT NO.	CONCRETE FOOTINGS EMBEDDED ITEM NO. 9031010 CY	STRUCTURAL STEEL POSTS* POST DES NO.	POST NO.1 LF	POST NO.2 LF	POST NO.3 LF	LBS PER FT	TOTAL ITEM NO. 9031210 LBS	PIPE POSTS* PIPE SIZE IN	POST NO.1 LF	POST NO.2 LF	LBS PER FT	TOTAL ITEM NO. 9031220 LBS	BACKING BARS** 2" X 3/8" BARS AT 2.55 LBS/FT NO. EACH	LGTH IN.	TOTAL LF	TOTAL LBS	U-CHANNEL POST ITEM NO. 9031250A LF
FAIRVIEW - ROUTE T (PIONEER AVE.)																						
1	36 X 36	8+26	16.36'	RIGHT																		
2	36 X 36	15+66	11.62'	RIGHT																		
3	36 X 36	17+66	10.54'	RIGHT																		
4	36 X 36	17+66	14.15'	RIGHT																		
5	36 X 36	17+75	14.39'	LEFT																		
GRANBY - US 60 (E VALLEY ST.)																						
1	36 X 36	906+76	19.22'	RIGHT																		
2	36 X 36	908+76	20.59'	RIGHT																		
3	36 X 36	908+75	52.28'	LEFT																		
4	EXIST.	909+43	44.10'	RIGHT																		
5	36 X 36	909+50	47.21'	RIGHT																		
6	36 X 36	909+54	27.49'	LEFT																		
7	36 X 36	911+54	24.17'	LEFT																		
8	36 X 36	913+36	18.72'	RIGHT																		
9	36 X 36	915+36	19.95'	RIGHT																		
10	36 X 36	915+50	28.00'	LEFT																		
11	EXIST.	915+55	36.01'	LEFT																		
12	36 X 36	917+50	20.29'	LEFT																		
GRANBY - ROUTE E (N MAIN ST.)																						
13	36 X 36	282+63	21.69'	RIGHT																		
14	36 X 36	284+63	20.47'	RIGHT																		
15	36 X 36	284+79	26.66'	LEFT																		
16	36 X 36	287+29	21.97'	RIGHT																		
17	36 X 36	287+38	22.79'	LEFT																		
NEOSHO - BUSINESS 60 (COLER ST.)																						
1	36 X 36	22+96	25.16'	RIGHT																		
2	36 X 36	24+90	24.29'	RIGHT																		
3	36 X 36	25+10	25.62'	LEFT																		
4	36 X 36	27+08	22.11'	LEFT																		
NEOSHO - BUSINESS 60 (COLLEGE ST.)																						
5	36 X 36	40+16	26.66'	RIGHT																		
6	36 X 36	42+30	19.58'	RIGHT																		
7	36 X 36	42+36	18.48'	LEFT																		
8	36 X 36	44+36	25.00'	LEFT																		
WENTWORTH - STATE HWY 37																						
1	36 X 36	249+90	17.52'	RIGHT																		
2	36 X 36	254+15	24.74'	LEFT																		
SUBTOTAL																						
TOTAL																					**	

PERFORATED SQUARE STEEL TUBE													BREAK-AWAY ASSEMBLY ITEM NO. 9031241 EACH
2-INCH POST						2.5-INCH POST							
POST NO.1 LF	POST NO.2 LF	TOTAL ITEM NO. 9031270A LF	ANCHORS DRIVEN 12 GA. ITEM NO. 9031271A EACH	DRIVEN 7 GA. ITEM NO. 9031273A EACH	CONCRETE 7 GA. ITEM NO. 9031274 EACH	POST NO.1 LF	POST NO.2 LF	TOTAL ITEM NO. 9031280 LF	2.25" INSERT (6 FT) ITEM NO. 9031272A EACH	ANCHORS DRIVEN 7 GA. ITEM NO. 9031281A EACH	CONCRETE 7 GA. ITEM NO. 9031285 EACH		
						16		16			1	1	
						16		16			1	1	
						16		16			1	1	
						16		16			1	1	
						16		16			1	1	
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						16		16			1	1	
						16		16			1	1

EFFECTIVE 10-01-2016

STANDARD SIGN ASSEMBLIES

SIGN NUMBER	STATION	LOCATION	SIGN TYPE, DESCRIPTION, SIZES & NUMBER OF EACH							
			 W11-2	 W16-9P	 W16-7P	 R1-1				
			36 X 36	30 X 18	30 X 18	36 X 36				
FAIRVIEW - ROUTE T (PIONEER AVE.)										
1	8+26	RIGHT				1				
2	15+66	RIGHT	1	1						
3	17+66	RIGHT	1		1					
5	17+75	LEFT	1		1					
GRANBY - US 60 (E VALLY ST.)										
1	906+76	RIGHT	1	1						
2	908+76	RIGHT	1		1					
3	908+75	LEFT	1		1					
5	909+50	RIGHT	1		1					
6	909+54	LEFT	1		1					
7	911+54	LEFT	1	1						
8	913+36	RIGHT	1	1						
9	915+36	RIGHT	1		1					
10	915+50	LEFT	1		1					
12	917+50	LEFT	1	1						
GRANBY - ROUTE E (N MAIN ST.)										
13	282+63	RIGHT	1	1						
14	284+63	RIGHT	1		1					
15	284+79	LEFT	1		1					
16	287+29	RIGHT	1		1					
17	287+38	LEFT	1		1					
NEOSHO - BUSINESS 60 (COLER ST.)										
1	22+96	RIGHT	1	1						
2	24+90	RIGHT	1		1					
3	25+10	LEFT	1		1					
4	27+08	LEFT	1	1						
NEOSHO - BUSINESS 60 (COLLEGE ST.)										
5	40+16	RIGHT	1	1						
6	42+30	RIGHT	1		1					
7	42+36	LEFT	1		1					
8	44+36	LEFT	1	1						
WENTWORTH - STATE HWY 37										
1	249+90	RIGHT	1	1						
2	254+15	LEFT	1	1						
			28	12	16	1				

SIGN SUMMARY

STANDARD SIGN OR SPECIAL SIGN NUMBER	SIGN DETAIL SHEET NO.	NO. EACH	SIZE, TYPE & SQUARE FEET				
			SIZE	FLAT SHEET SH ITEM NO. 9035004A	FLAT SHEET FLUORESCENT SHF * ITEM NO. 9035069A	STRUCTURAL ST ITEM NO. 9035011A	STRUCTURAL FLUORESCENT STF * ITEM NO. 9035071A
STANDARD SIGN W11-2		28	36 X 36		252		
STANDARD SIGN W16-9P		12	30 X 18		45		
STANDARD SIGN W16-7P		16	30 X 18		60		
STANDARD SIGN R1-1		1	36 X 36	9			
			TOTAL	9	357		

* ORANGE, YELLOW & YELLOW/GREEN

SIGNING SHEET
SHEET 3 OF 3

D-30

STATE OF MISSOURI
ROBERT B. GREEN
NUMBER PE-25339
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED 4/2/2025
ROUTE VAR. | STATE MO
DISTRICT SW | SHEET NO. 60
COUNTY NEWTON
JOB NO. J7S3506
CONTRACT ID.
PROJECT NO.
BRIDGE NO.

DESCRIPTION | DATE

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

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

Bartlett & West
601 MONROE ST. SUITE 201 - JEFFERSON CITY, MO 65101
PHONE 573-634-3181
CERTIFICATE OF AUTHORITY NO. 000167 - ENGINEERING
WWW.BARTLETTWEST.COM

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
PLANS FOR PROPOSED STATE HIGHWAY
BARTON AND DADE COUNTY
AMERICANS WITH DISABILITIES ACT
(ADA IMPROVEMENTS)

DESIGN DESIGNATION

GOLDEN CITY – ROUTE 126
A.A.D.T. – 2022 = 893
F.C. – MINOR ARTERIAL
V = 30 M.P.H.

IANTHA – HWY W
A.A.D.T. – 2022 = 80
F.C. – MAJOR COLLECTOR
V = 30 M.P.H.

IRWIN – ROUTE C
A.A.D.T. – 2022 = 278
F.C. – MAJOR COLLECTOR
V = 55 M.P.H.

LOCKWOOD – ROUTE 160
A.A.D.T. – 2022 = 934
F.C. – MINOR ARTERIAL
V = 30, 40 M.P.H.

LOCKWOOD – ROUTE 97
A.A.D.T. – 2022 = 413
F.C. – MAJOR COLLECTOR
V = 30 M.P.H.

TEMPORARY CONSTRUCTION EASEMENTS REQUIRED

PERMANENT SIDEWALK EASEMENTS REQUIRED

CONVENTIONAL SYMBOLS
(USED IN PLANS)

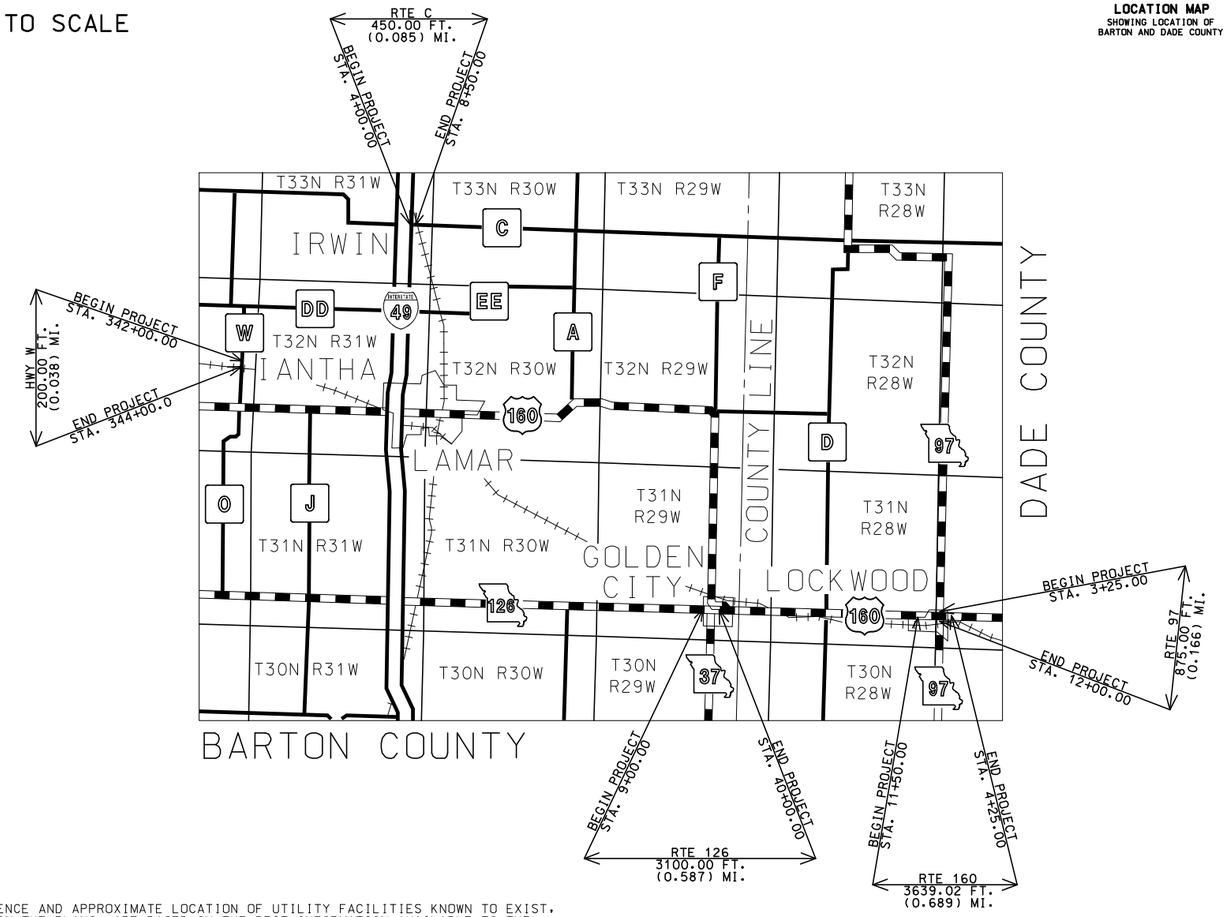
	EXISTING	NEW
BUILDINGS AND STRUCTURES		
GUARD RAIL		
GUARD CABLE		
CONCRETE RIGHT-OF-WAY MARKER		
STEEL RIGHT-OF-WAY MARKER		
LOCATION SURVEY MARKER		
UTILITIES		
FIBER OPTICS	–FO–	–FO–
OVERHEAD CABLE TV	–OTV–	–OTV–
UNDERGROUND CABLE TV	–UTV–	–UTV–
OVERHEAD TELEPHONE	–OT–	–OT–
UNDERGROUND TELEPHONE	–UT–	–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	D	
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

NOT TO SCALE



LOCATION MAP
SHOWING LOCATION OF
BARTON AND DADE COUNTY



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

INDEX OF SHEETS

DESCRIPTION	SHEET NUMBER
TITLE SHEET	1
TYPICAL SECTIONS (TS) (8 SHEETS)	2
QUANTITIES (QU) (6 SHEETS)	3
PLAN-PROFILE (PP)	4-11
REFERENCE POINT (RP)	12-15
COORDINATE POINTS (CP)	16-19
SPECIAL SHEETS (SS)	20-23
TRAFFIC CONTROL SHEETS (TC)	24-27
EROSION CONTROL SHEETS (EC)	28
SIGNING SHEETS (SN)	29-31
CULVERT SHEETS (CS)	32

LENGTH OF PROJECT

GOLDEN CITY (RTE 126)

BEGINNING OF PROJECT	STA. 9 + 00.00
END OF PROJECT	STA. 40 + 00.00
APPARENT LENGTH	3100.00 FEET
EQUATIONS AND EXCEPTIONS:	NONE

IANTHA (HWY W)

BEGINNING OF PROJECT	STA. 342 + 00.00
END OF PROJECT	STA. 344 + 00.00
APPARENT LENGTH	200.00 FEET
EQUATIONS AND EXCEPTIONS:	NONE

IRWIN (RTE C)

BEGINNING OF PROJECT	STA. 4 + 00.00
END OF PROJECT	STA. 8 + 50.00
APPARENT LENGTH	450.00 FEET
EQUATIONS AND EXCEPTIONS:	NONE

LOCKWOOD (RTE 160)

BEGINNING OF PROJECT	STA. 11 + 50.00
END OF PROJECT	STA. 4 + 50.00
APPARENT LENGTH	-700.00 FEET
EQUATIONS AND EXCEPTIONS:	
43+39.02 BK = 0+00.00 AH	4339.02 FEET
NET LENGTH	3639.02 FEET

LOCKWOOD (RTE 97)

BEGINNING OF PROJECT	STA. 3 + 25.00
END OF PROJECT	STA. 12 + 00.00
APPARENT LENGTH	875.00 FEET
EQUATIONS AND EXCEPTIONS:	NONE

APPARENT LENGTH	3925.00	FEET
TOTAL CORRECTIONS	4339.02	FEET
NET LENGTH OF PROJECT	8264.02	FEET
STATE LENGTH	1.565	MILES

STATE OF MISSOURI
ROBERT B. GREEN
NUMBER PE-25339
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED: 3/3/2025
ROUTE: VAR. | STATE: MO
DISTRICT: SW | SHEET NO.: 1
COUNTY: BARTON/DADE
JOB NO.: J7S3531
CONTRACT ID.:
PROJECT NO.:
BRIDGE NO.:

DESCRIPTION | DATE

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

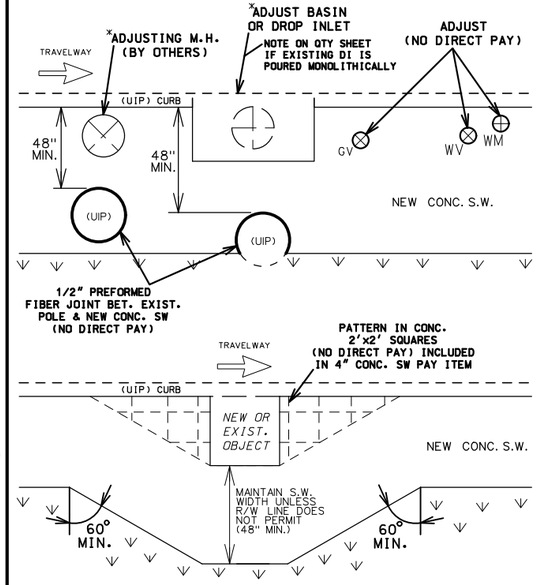
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
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CERTIFICATE OF AUTHORITY NO. 000167 - ENGINEERING
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1. CONCRETE SIDEWALK, CURB RAMP AND DETECTABLE WARNING DEVICE (TRUNCATED DOMES) DETAILS SHALL CONFORM 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.

NOT TO SCALE

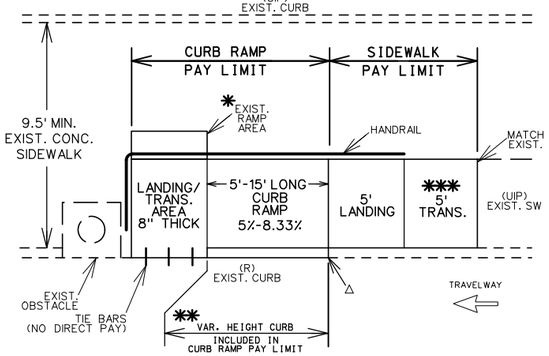


UTILITIES OR VARIOUS OBSTACLES

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: 2024-08-23



△ MATCH EXIST CURB

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

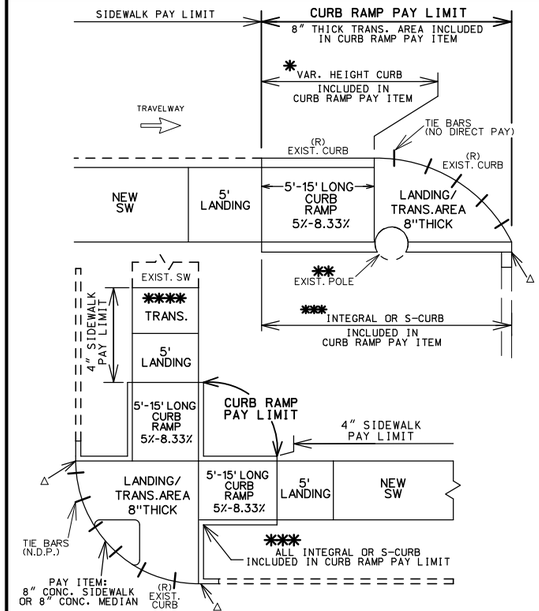
** VAR. HEIGHT CURB ALONG ROADSIDE MAY BE CONSTRUCTED MONOLITHIC OR SEPERATE DEPENDING ON CONST. OPERATIONS.

*** 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.

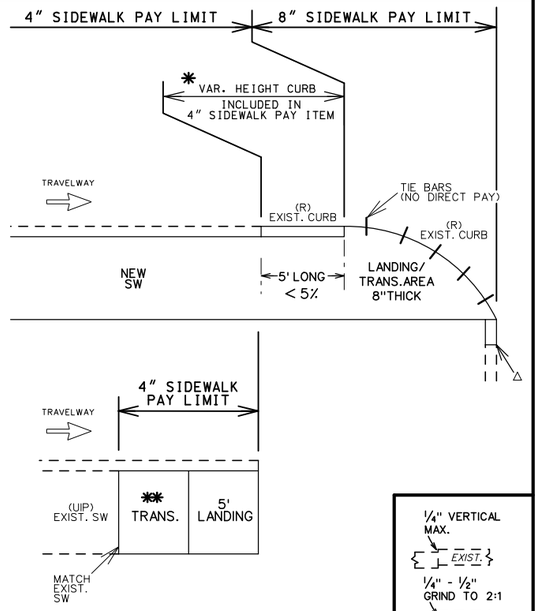
*** TRANSITION PANEL(S) TO BLEND CROSS SLOPE DISCREPENCY WARP RATE NOT TO EXCEED 0.5% PER FT

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

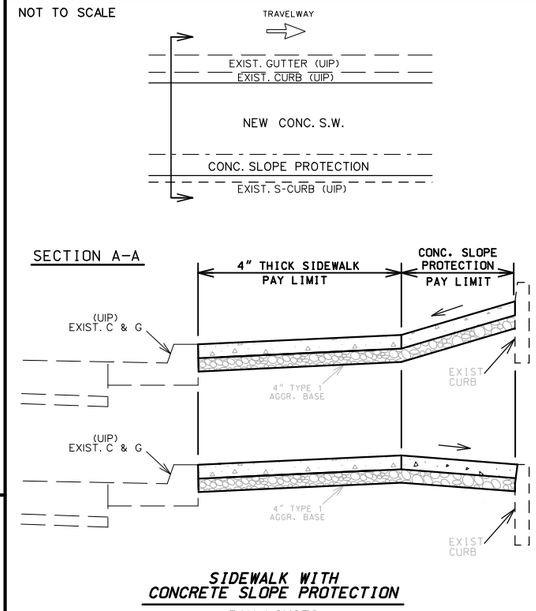
WHEN RAMP AREA IS LESS THAN 5% GRADE, IT IS CONSIDERED SIDEWALK

NOT TO SCALE

JOINT GRINDING

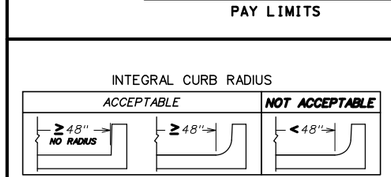
TRIP HAZARDS 622-99.03

NOT TO SCALE



SIDEWALK WITH CONCRETE SLOPE PROTECTION

PAY LIMITS

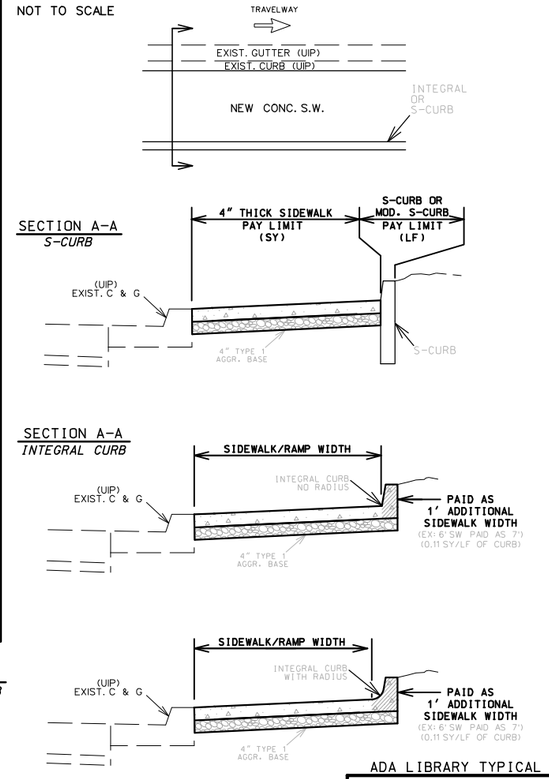


SECTION A-A
INTEGRAL CURB WITH RADIUS

SIDEWALK & RAMP WITH CURB

PAY LIMITS

NOT TO SCALE



ADA LIBRARY TYPICAL

TYPICAL SHEET
SHEET 1 OF 8

STATE OF MISSOURI
ROBERT B. GREEN
NUMBER PE-25339
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED: 3/3/2025

ROUTE	STATE
VAR.	MO
DISTRICT	SHEET NO.
SW	2

COUNTY: BARTON/DADE
JOB NO.: J7S3531
CONTRACT ID.:
PROJECT NO.:
BRIDGE NO.:

DESCRIPTION	DATE

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

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

Bartlett & West
601 MONROE ST. SUITE 201 - JEFFERSON CITY, MO 65101
PHONE 573-634-3181
CERTIFICATE OF AUTHORITY NO. 000167 - ENGINEERING
WWW.BARTLETTWEST.COM

PERPENDICULAR – TYPE 1

TYPE 1-A

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	–	8.2	12.8	–	10.8	12.7	–	13.5	15.8	
CONC. SIDEWALK	SY	–	5.6	6.4	–	5.6	6.4	–	4.9	6.4	
TYPE 1 AGGREGATE	SY	–	13.8	16.0	–	16.4	19.1	–	18.3	22.2	
ADA LINEAR GRADING	LF	–	22.0	22.0	–	27.5	27.5	–	30.0	30.5	
SODDING	SY	–	5.8	5.7	–	6.8	6.9	–	7.5	7.9	

TYPE 1-B

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-C

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-D

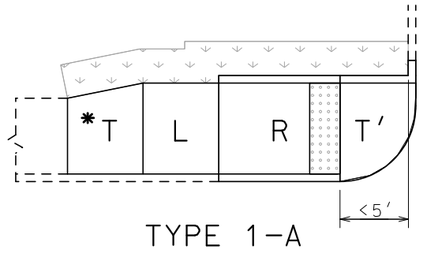
LENGTH (LF)		8			12			16			REMARKS
WIDTH (LF)		4	5	6	4	5	6	4	5	6	
TRUNCATED DOMES	SF	–	18.0	24.0	–	18.0	24.0	–	18.0	24.0	
CURB RAMP	SY	–	18.6	22.8	–	24.0	29.0	–	29.3	35.3	
CONC. SIDEWALK	SY	–	11.2	12.8	–	11.2	12.8	–	9.8	11.4	
TYPE 1 AGGREGATE	SY	–	29.8	35.6	–	35.2	41.8	–	39.1	46.7	
ADA LINEAR GRADING	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-E

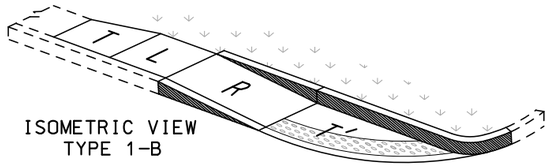
LENGTH (LF)		8			12			16			REMARKS
WIDTH (LF)		4	5	6	4	5	6	4	5	6	
TRUNCATED DOMES	SF	–	18.0	24.0	–	18.0	24.0	–	18.0	24.0	
CURB RAMP	SY	–	14.8	19.0	–	20.1	25.2	–	25.5	31.4	
CONC. SIDEWALK	SY	–	11.2	12.8	–	11.2	12.8	–	9.8	11.4	
TYPE 1 AGGREGATE	SY	–	26.0	31.8	–	31.3	38.0	–	35.3	42.8	
ADA LINEAR GRADING	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-F

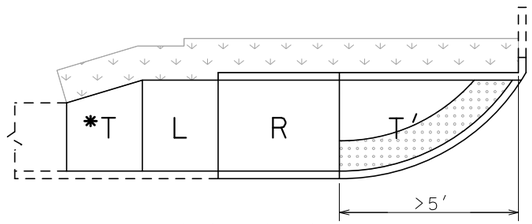
LENGTH (LF)		8			12			16			REMARKS
WIDTH (LF)		4	5	6	4	5	6	4	5	6	
TRUNCATED DOMES	SF	–	14.0	16.0	–	14.0	16.0	–	14.0	16.0	
CURB RAMP	SY	–	15.5	19.0	–	20.8	25.2	–	26.2	31.4	
CONC. SIDEWALK	SY	–	11.2	12.8	–	11.2	12.8	–	9.8	11.4	
TYPE 1 AGGREGATE	SY	–	26.7	31.8	–	32.0	38.0	–	36.0	42.8	
ADA LINEAR GRADING	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	



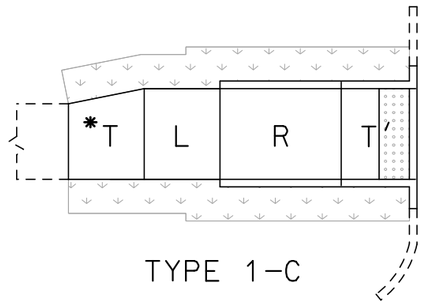
TYPE 1-A



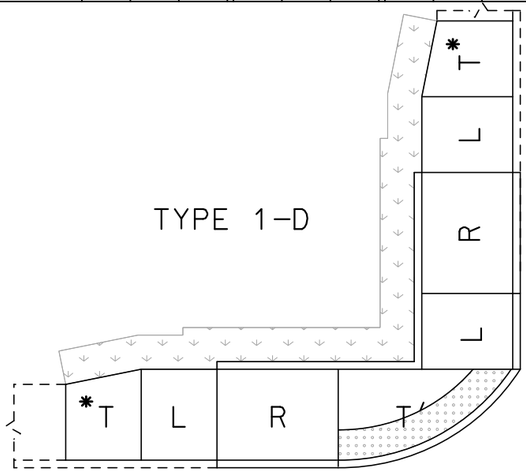
ISOMETRIC VIEW
TYPE 1-B



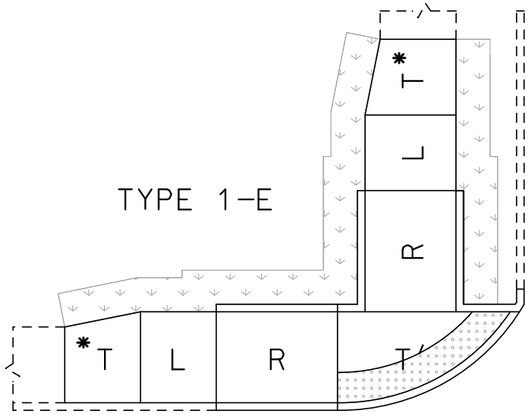
TYPE 1-B



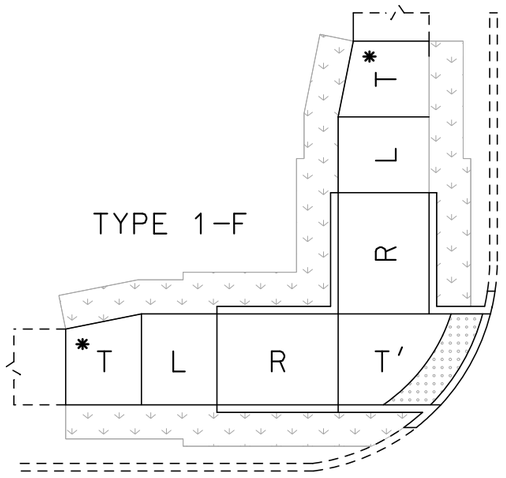
TYPE 1-C



TYPE 1-D



TYPE 1-E



TYPE 1-F

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.

ADA LIBRARY TYPICAL

TYPE 1

PERPENDICULAR CURB RAMPS

TYPICAL SHEET 2 OF 8

REVISED: 2022-05-18

STATE OF MISSOURI
ROBERT B. GREEN
NUMBER PE-25339
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED SEALED AND DATED ELECTRONICALLY.

DATE PREPARED: 3/3/2025

ROUTE	STATE
VAR.	MO
DISTRICT	SHEET NO.
SW	2

COUNTY: BARTON/DADE

JOB NO.: J7S3531

CONTRACT ID.:

PROJECT NO.:

BRIDGE NO.:

DESCRIPTION	DATE

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

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

Bartlett & West
601 MONROE ST. SUITE 201 - JEFFERSON CITY, MO 65101
PHONE 573-634-3181
CERTIFICATE OF AUTHORITY NO. 000167 - ENGINEERING
WWW.BARTLETTWEST.COM

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	

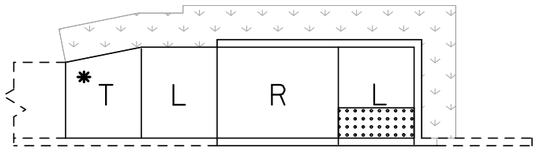
TYPE 2-E

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

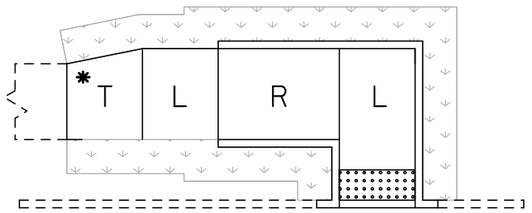
TYPE 2-F

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

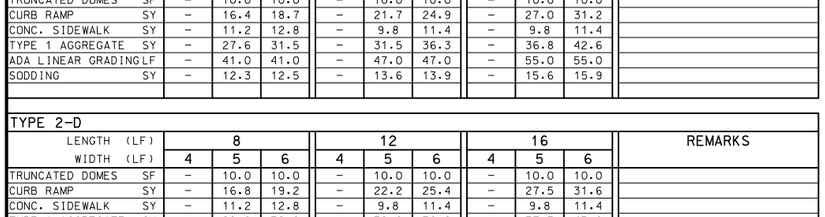
NOTE:
QUANTITIES ARE CALCULATED BY AREA AND MAY NOT MATCH EXACT FIELD CONDITIONS.



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

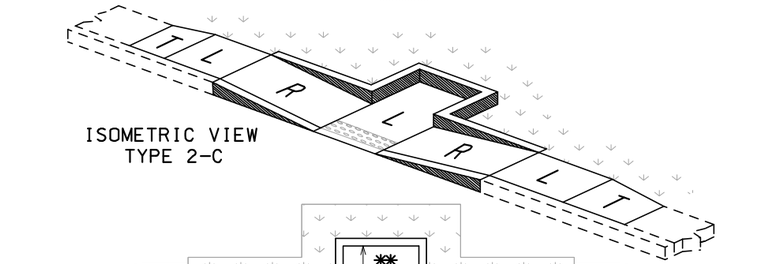
* – T IS STILL NEEDED EVEN IF THE EXISTING SIDEWALK IS THE SAME WIDTH AS THE NEW SIDEWALK.(IT WILL BLEND THE EXIST XSLOPE INTO THE NEW LANDING XSLOPE)

L – LANDING

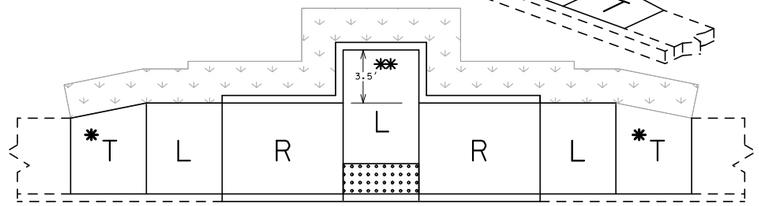
R – RAMP

– SOD SLOPE 6:1 MIN.

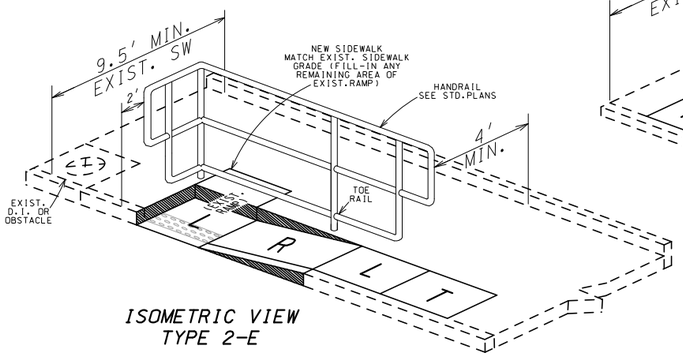
– CURB RAMP PAY LIMITS



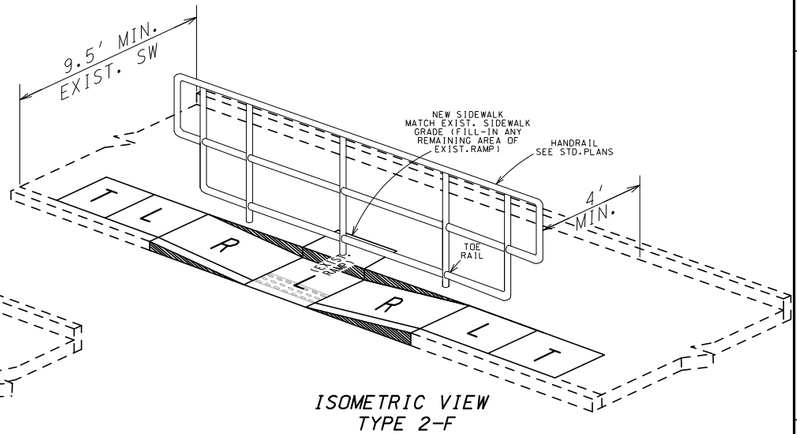
ISOMETRIC VIEW
TYPE 2-C



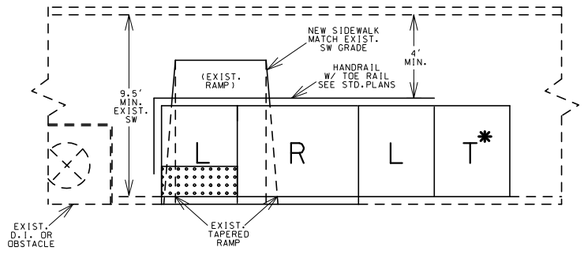
TYPE 2-C



ISOMETRIC VIEW
TYPE 2-E



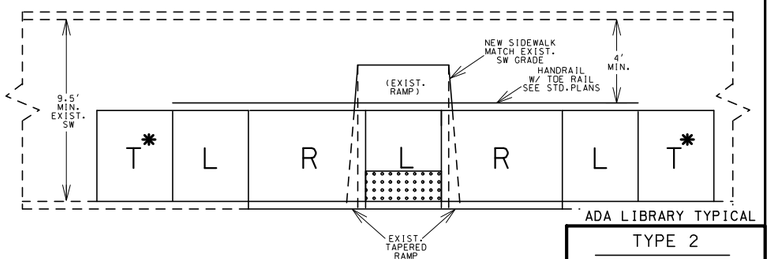
ISOMETRIC VIEW
TYPE 2-F



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



TYPE 2-F

SEE STANDARDS FOR HANDRAIL SPECS

ADA LIBRARY TYPICAL

TYPE 2
PARALLEL
CURB RAMPS

TYPICAL SHEET
3 OF 8

REVISED: 2022-05-18

ROBERT B. GREEN
NUMBER PE-25339
STATE OF MISSOURI
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED SEALED AND DATED ELECTRONICALLY.

DATE PREPARED
3/3/2025

ROUTE VAR. | STATE MO
DISTRICT SW | SHEET NO. 2
COUNTY BARTON/DADE
JOB NO. J7S3531
CONTRACT ID.
PROJECT NO.
BRIDGE NO.

DESCRIPTION | DATE

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

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

Bartlett & West
601 MONROE ST. SUITE 201 - JEFFERSON CITY, MO 65101
PHONE 573-634-3181
CERTIFICATE OF AUTHORITY NO. 000167 - ENGINEERING
WWW.BARTLETTWEST.COM

PARALLEL - TYPE 2 (cont'd.)

TYPE 2-G

LENGTH (LF)	8			12			16			REMARKS
WIDTH (LF)	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)	8			12			16			REMARKS
WIDTH (LF)	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)

T - TRANSITION TO EXISTING SW

L - LANDING

R - RAMP

- SOD SLOPE 6:1 MIN.

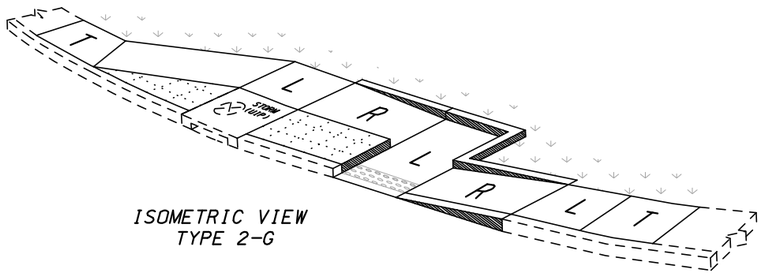
- TRUNCATED DOME LOCATION, IF DIST. IS <5' OR > 5'

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

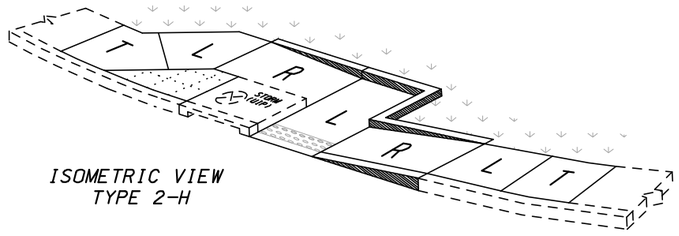
- CURB RAMP PAY LIMITS

- INCLUDED IN 4" CONC. SIDEWALK PAY LIMIT

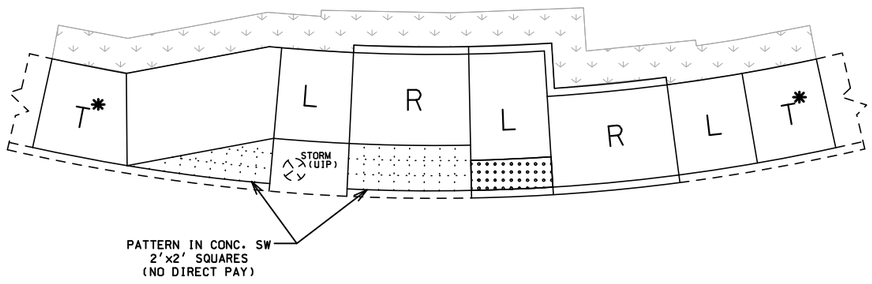
NOTE:
QUANTITIES ARE CALCULATED BY AREA AND MAY NOT MATCH EXACT FIELD CONDITIONS.



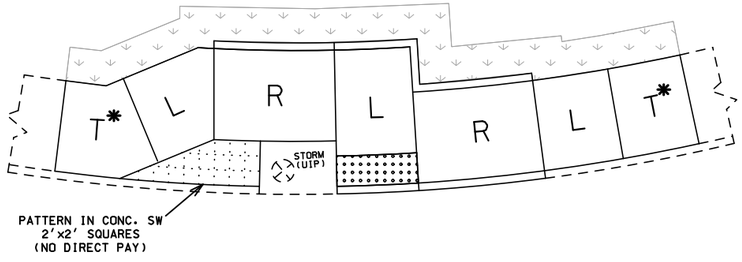
ISOMETRIC VIEW
TYPE 2-G



ISOMETRIC VIEW
TYPE 2-H



TYPE 2-G



TYPE 2-H

ADA LIBRARY TYPICAL

TYPE 2

PARALLEL CURB RAMPS

TYPICAL SHEET 4 OF 8

REVISED: 2022-05-18

ROBERT B. GREEN
NUMBER PE-25339
STATE OF MISSOURI
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED SEALED AND DATED ELECTRONICALLY.

DATE PREPARED: 3/3/2025

ROUTE: VAR. | STATE: MO
DISTRICT: SW | SHEET NO.: 2
COUNTY: BARTON/DADE
JOB NO.: J7S3531
CONTRACT ID.:
PROJECT NO.:
BRIDGE NO.:

DESCRIPTION | DATE

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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

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601 MONROE ST. SUITE 201 - JEFFERSON CITY, MO 65101
PHONE 573-634-3181
CERTIFICATE OF AUTHORITY NO. 000167 - ENGINEERING
WWW.BARTLETTWEST.COM

DIAGONAL – TYPE 3

TYPE 3-A

LENGTH (LF)	8			12			16			REMARKS
WIDTH (LF)	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	
8"SW OR MED STRIP SY	–	3.0	2.2	–	3.0	2.2	–	3.0	2.2	

TYPE 3-B

LENGTH (LF)	8			12			16			REMARKS
WIDTH (LF)	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	
8"SW OR MED STRIP SY	–	1.5	1.5	–	1.5	1.5	–	1.5	1.5	

TYPE 3-C

LENGTH (LF)	8			12			16			REMARKS
WIDTH (LF)	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	
8"SW OR MED STRIP SY	–	1.0	1.6	–	1.0	1.6	–	1.0	1.6	

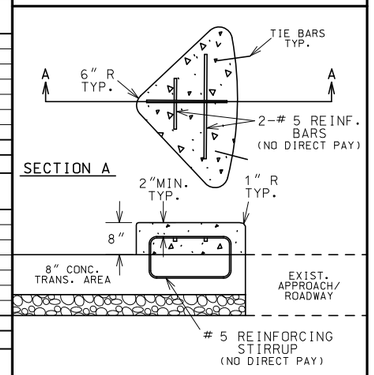
TYPE 3-D

LENGTH (LF)	8			12			16			REMARKS
WIDTH (LF)	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	
8"SW OR MED STRIP SY	–	1.0	0.8	–	1.0	0.8	–	1.0	0.8	

TYPE 3-E

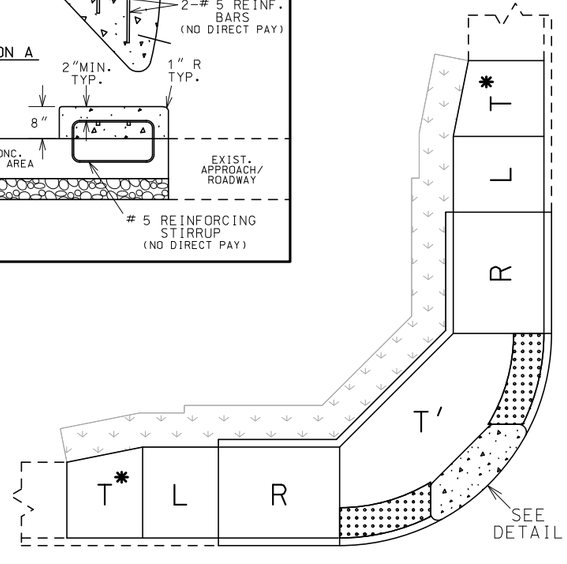
LENGTH (LF)	8			12			16			REMARKS
WIDTH (LF)	4	5	6	4	5	6	4	5	6	
TRUNCATED DOMES SF	–	20.0	24.0	–	20.0	24.0	–	20.0	24.0	
CURB RAMP SY	–	17.2	19.8	–	17.7	21.4	–	20.4	24.5	
CONC. SIDEWALK SY	–	8.4	10.7	–	7.3	9.4	–	7.3	9.4	
TYPE 1 AGGREGATE SY	–	25.6	30.5	–	25.0	30.8	–	27.7	33.9	
ADA LINEAR GRADING LF	–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

– DETAIL – 8" SIDEWALK OR 8" 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

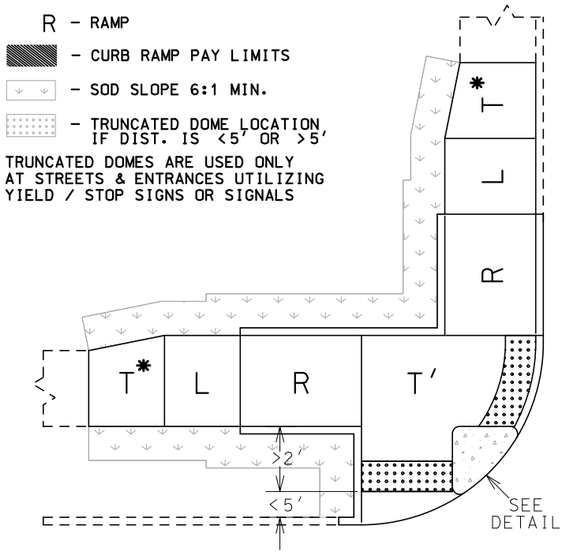
R – RAMP

– CURB RAMP PAY LIMITS

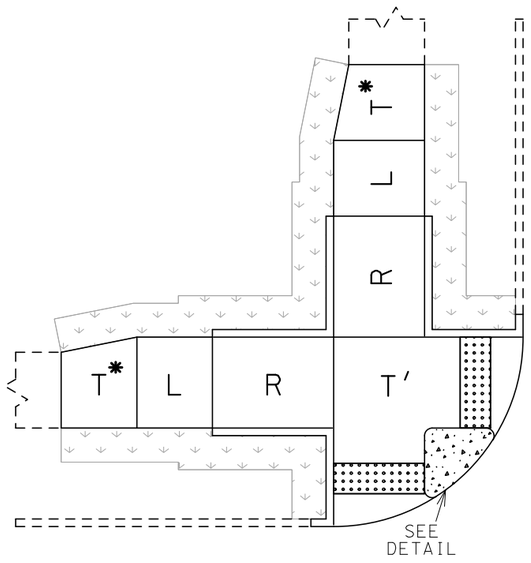
– SOD SLOPE 6:1 MIN.

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

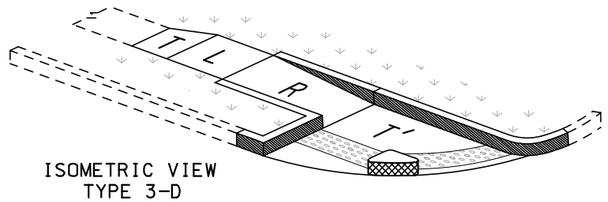
TRUNCATED DOMES ARE USED ONLY AT STREETS & ENTRANCES UTILIZING YIELD / STOP SIGNS OR SIGNALS



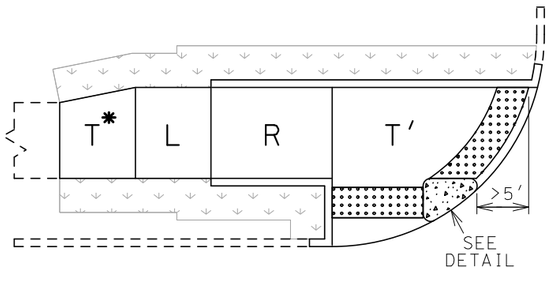
TYPE 3-B



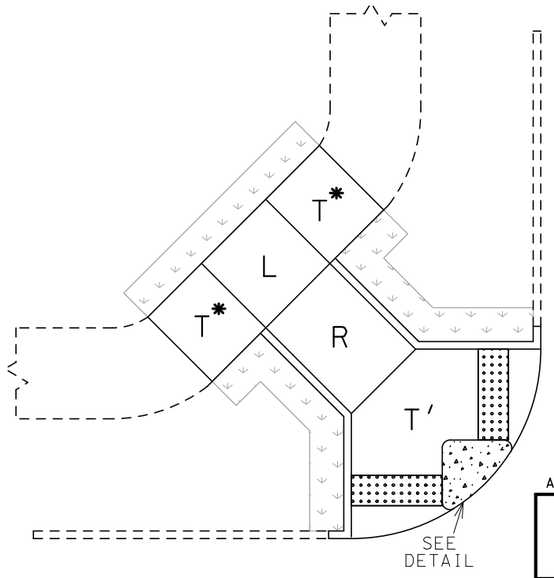
TYPE 3-C



ISOMETRIC VIEW
TYPE 3-D



TYPE 3-D



TYPE 3-E

ADA LIBRARY TYPICAL

TYPE 3
DIAGONAL CURB RAMPS

TYPICAL SHEET 5 OF 8

REVISED: 2022-05-18

STATE OF MISSOURI
ROBERT B. GREEN
NUMBER PE-25339
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED: 3/3/2025
ROUTE: VAR. | STATE: MO
DISTRICT: SW | SHEET NO.: 2
COUNTY: BARTON/DADE
JOB NO.: J7S3531
CONTRACT ID.:
PROJECT NO.:
BRIDGE NO.:

DESCRIPTION | DATE

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

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

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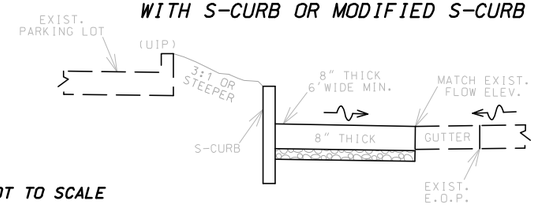
REVISED: 2022-05-16

NOTES FOR MODIFIED SIDEWALK:

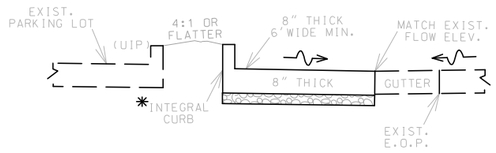
1. REMOVE EXIST. CURB & RAISED ISLAND WITHIN LIMITS SHOWN.
2. AREA INSIDE FINAL CURB TO BE REPAIRED OR REPLACED WITH EXISTING SURFACE MATERIAL. GRADE TO DRAIN.
3. CONSTRUCT 8" THICK CONC. SIDEWALK FLUSH WITH EXIST. CONC. PAVED APPROACH.
4. CONSTRUCT CURB ADJACENT TO MODIFIED SIDEWALK.
5. MODIFIED SIDEWALK 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



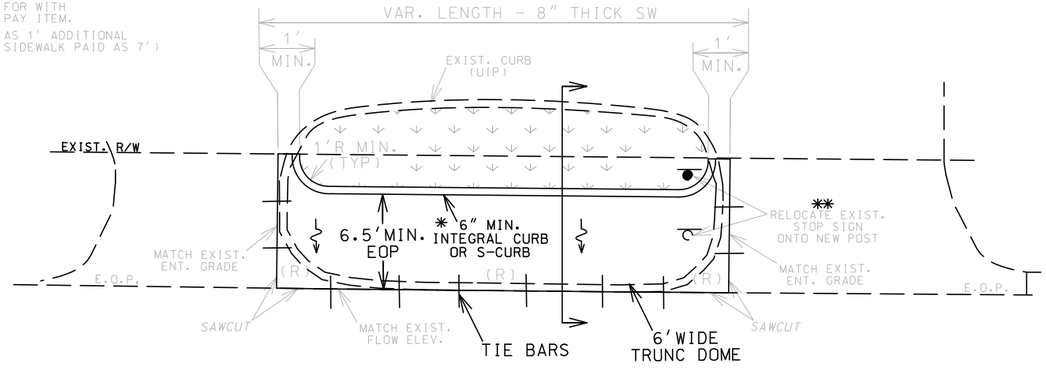
SECTION A-A
WITH INTEGRAL CURB



NOT TO SCALE

TYPICAL MODIFIED SIDEWALK
8" THICK

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

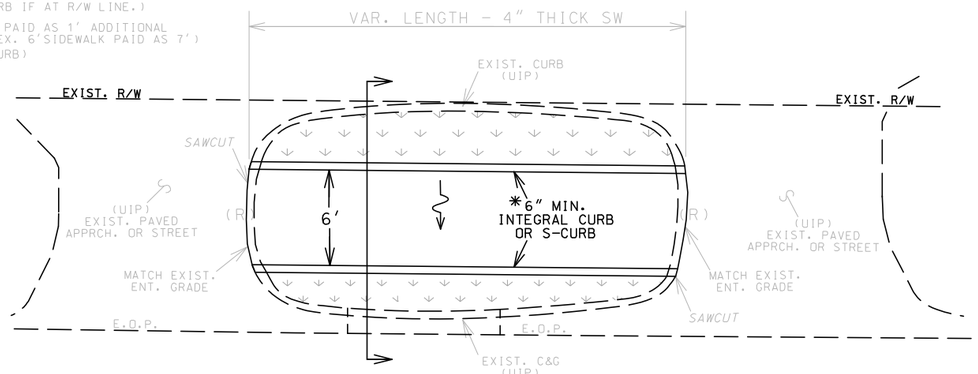


NOTES FOR CUT-THRU SIDEWALK:

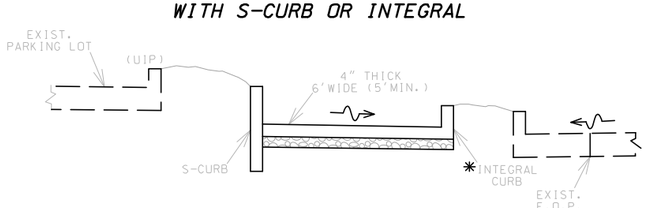
1. REMOVE EXIST. CURB & RAISED ISLAND WITHIN LIMITS SHOWN.
2. AREA INSIDE FINAL CURB TO BE REPAIRED OR REPLACED WITH EXISTING SURFACE MATERIAL. GRADE TO DRAIN.
3. CONSTRUCT 4" THICK CONC. SIDEWALK FLUSH WITH EXIST. CONC. PAVED APPROACH.
4. CONSTRUCT CURB ON BOTH SIDES ADJACENT TO SIDEWALK.
5. CUT-THRU 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



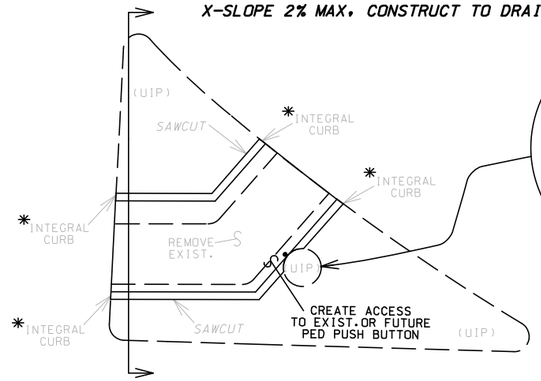
SECTION C-C
WITH S-CURB OR INTEGRAL

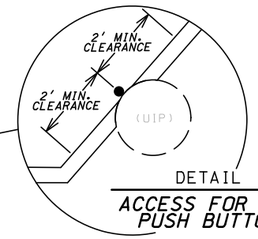


NOT TO SCALE

NOT TO SCALE

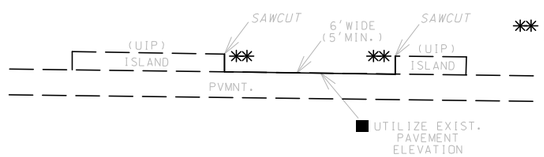
TYPICAL ISLAND CUT-THRU SIDEWALK
X-SLOPE 2% MAX. CONSTRUCT TO DRAIN





DETAIL
ACCESS FOR PED PUSH BUTTON

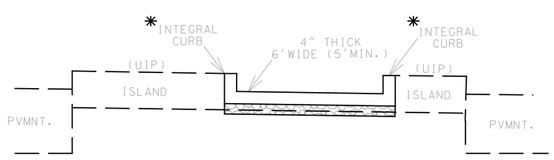
SECTION B-B
ISLAND CUT-THRU SIDEWALK FOR EXISTING 'PINNED-ON' ISLAND



■ 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 6 OF 8

STATE OF MISSOURI
ROBERT B. GREEN
NUMBER PE-25339
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED SEALED AND DATED ELECTRONICALLY.

DATE PREPARED: 3/3/2025
ROUTE: VAR. | STATE: MO
DISTRICT: SW | SHEET NO.: 2
COUNTY: BARTON/DADE
JOB NO.: J7S3531
CONTRACT ID.:
PROJECT NO.:
BRIDGE NO.:

DESCRIPTION	DATE

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

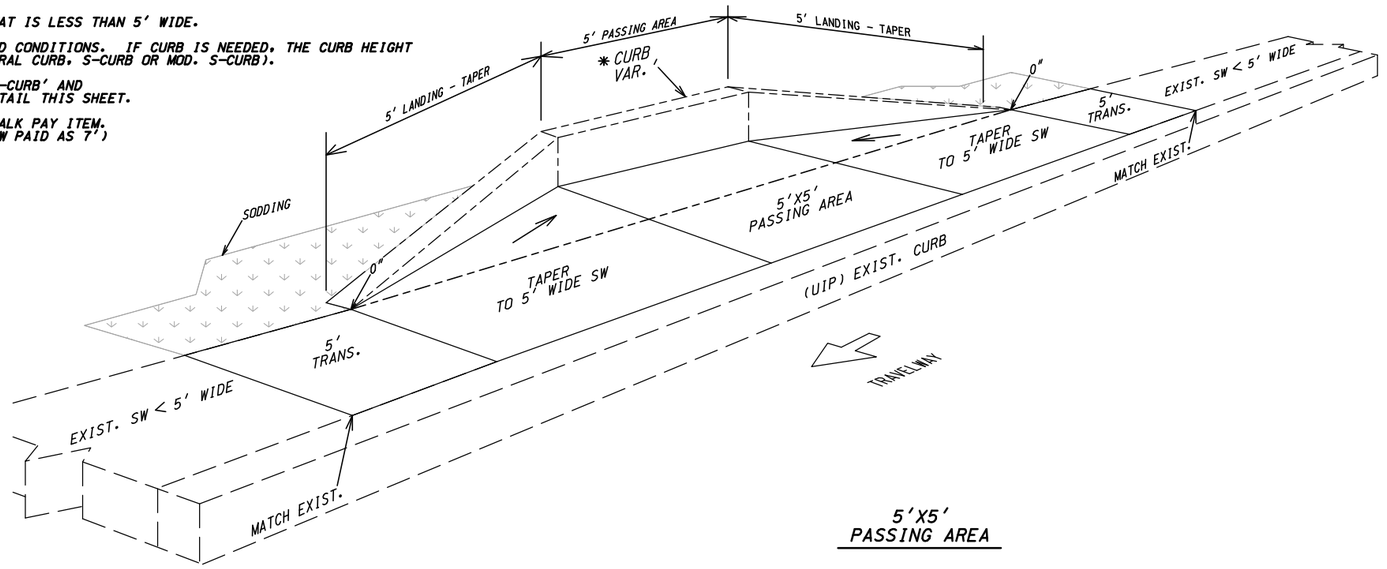
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

Bartlett & West
601 MONROE ST. SUITE 201 - JEFFERSON CITY, MO 65101
PHONE 573-634-3181
CERTIFICATE OF AUTHORITY NO. 000167 - ENGINEERING
WWW.BARTLETTWEST.COM

REVISED: 2024-01-18

NOTES:

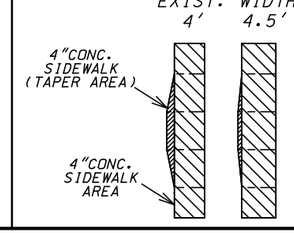
1. PASSING AREA REQUIRED EVERY 200' ON SIDEWALK THAT IS LESS THAN 5' WIDE.
* 2. CURB MAY OR MAY NOT BE NEEDED DEPENDING ON FIELD CONDITIONS. IF CURB IS NEEDED, THE CURB HEIGHT WILL VARY DEPENDING ON FIELD CONDITIONS. (INTEGRAL CURB, S-CURB OR MOD. S-CURB).
3. S-CURB OVER 12" TALL IS PAID FOR AS 'MODIFIED 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)



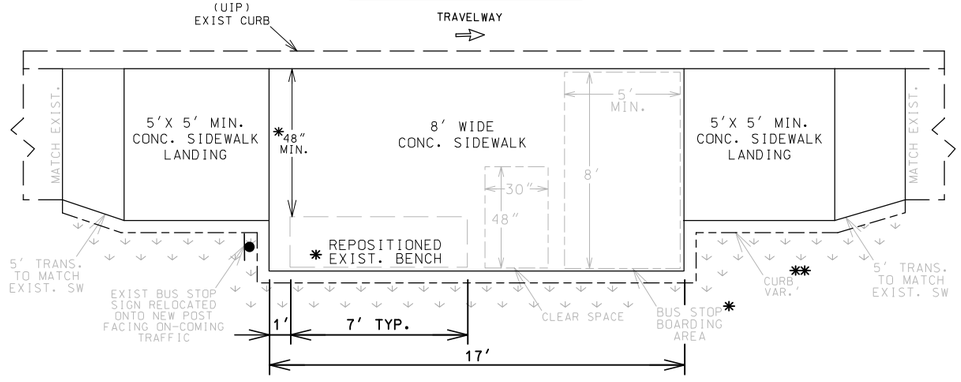
5'X5' PASSING AREA

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
MODIFIED S-CURB		LF	17.2	16.0
SODDING		SY	53.0	53.0
LINEAR GRADING		LF	25.0	25.0



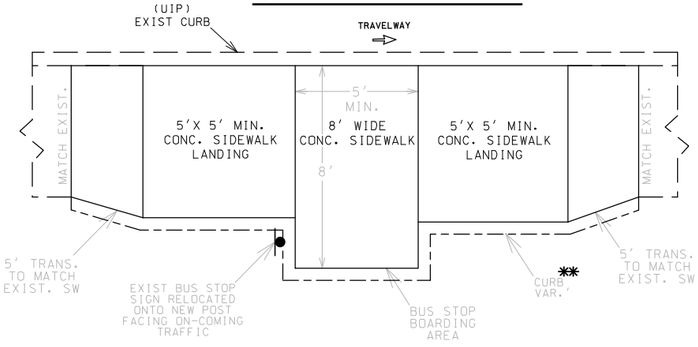
BUS STOP WITH BENCH

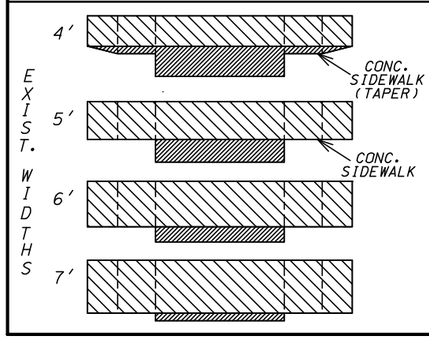


NOTES:

* 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)

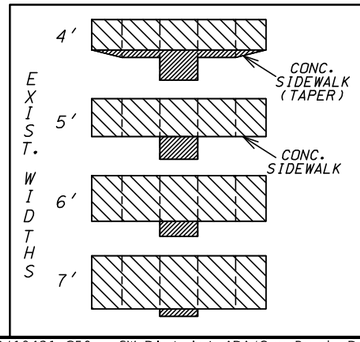
BUS STOP WITHOUT BENCH





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
MODIFIED 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
MODIFIED 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 7 OF 8

STATE OF MISSOURI
ROBERT B. GREEN
NUMBER PE-25339
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED
3/3/2025

ROUTE	STATE
VAR.	MO
DISTRICT	SHEET NO.
SW	2

COUNTY
BARTON/DADE

JOB NO.
J7S3531

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION	DATE

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

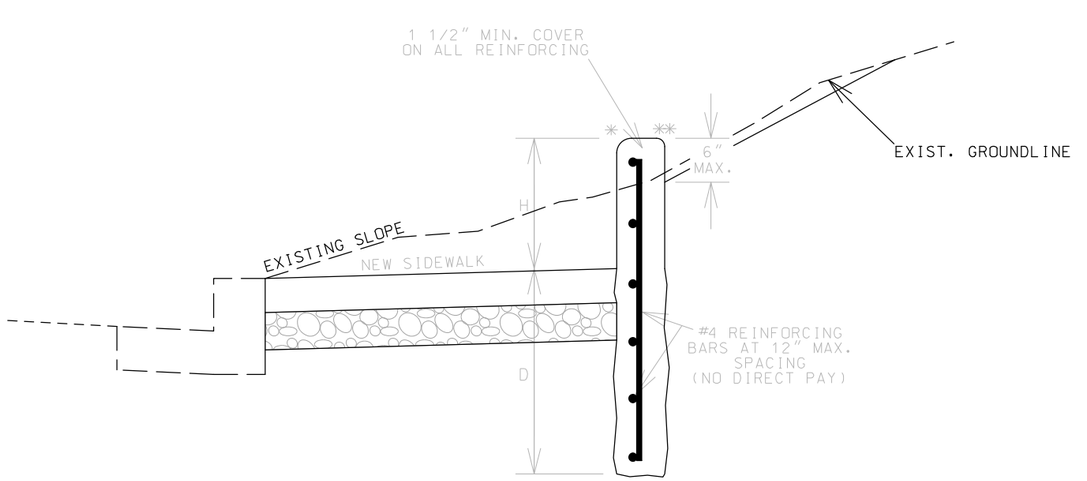
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

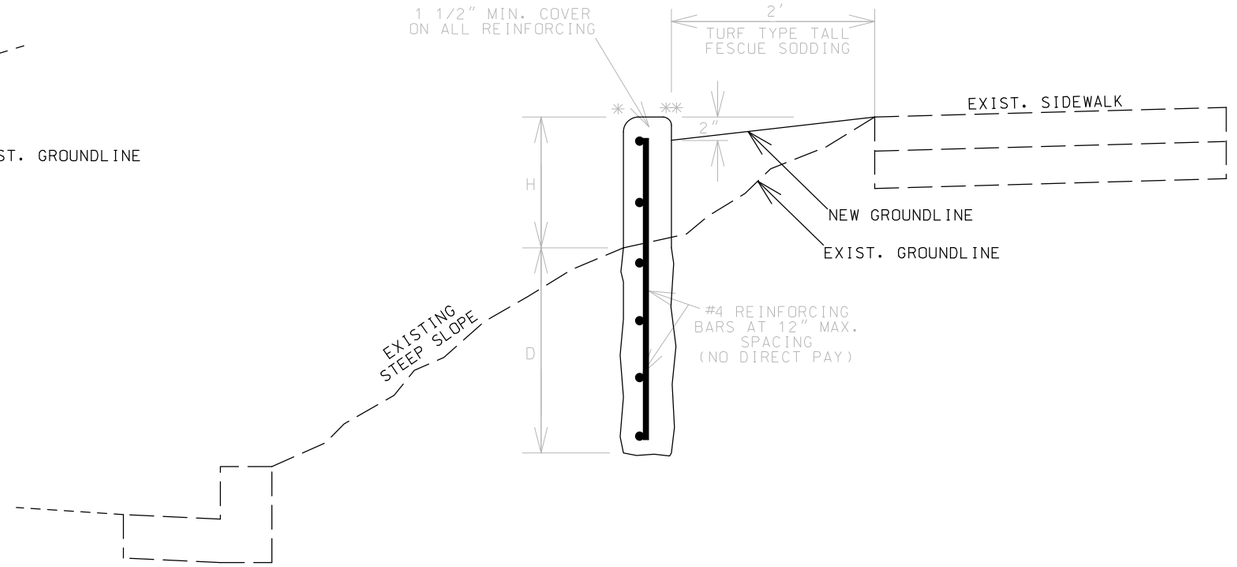
Bartlett & West
601 MONROE ST. SUITE 201 - JEFFERSON CITY, MO 65101
PHONE 573-634-3181
CERTIFICATE OF AUTHORITY NO. 000167 - ENGINEERING
WWW.BARTLETTWEST.COM

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

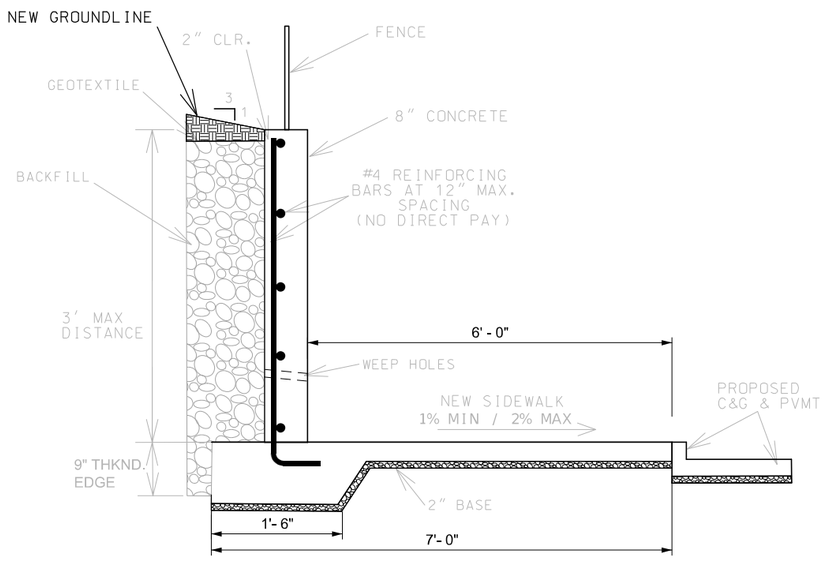
* ROUND TO 3/4" RADIUS
** ROUND TO 1/4" RADIUS
H = 2'-6" MAX. (30")
D = BURY DEPTH (FORMING NOT REQUIRED)
THIS SHALL BE 18 INCHES OR "H" WHICHEVER IS GREATER.
VERTICAL REINFORCING LENGTHS VARY AS NEEDED.
DEPTH MAY BE REDUCED IF KEYED 6" IN ROCK

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
8 OF 8

STATE OF MISSOURI
ROBERT B. GREEN
NUMBER PE-25339
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED
3/3/2025

ROUTE	STATE
VAR.	MO
DISTRICT	SHEET NO.
SW	2

COUNTY
BARTON/DADE

JOB NO.
J7S3531

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION	DATE

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

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

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TRUNCATED DOMES, CURB RAMP, SIDEWALK, TYPE 1 AGGREGATE, ADA LINEAR GRADING, TURF TYPE TALL FESCUE SODDING, CURBS

SHEET	STATION	STATION	LOCATION	LT RT	TRUNC. DOMES	CURB RAMP				SIDEWALK									4" TYPE 1 AGGR.	ADA LINEAR GRADING	SOD	S-CURB			REMARKS
										S.W. WIDTH	✳ PAY WIDTH	4" SDWLK.	4" CUT THRU	4" BUS STOP	4" PASS AREA	8" SDWLK.	8" MODIFD. SDWLK.	INTEGRAL CURB				LESS/EQ 6" (1"-6")	OVER 6" (6"-12")	MODIFIED (12"-30")	
					SF	LENGTH	WIDTH	TYPE	SY	LF	LF	SY	SY	SY	SY	SY	SY	✳ LF	SY	LF	SY	LF	LF	LF	
4	9+49.55	11+51.10	126	LT		20	5	N/A	13.6	5	5	92.0	0.0	0.0	0.0	0.0	0.0		105.6	226.6	41.1				
4	10+74.42	12+85.58	126	RT		10	5	N/A	6.4	5	5	83.1	0.0	0.0	0.0	0.0	0.0		89.5	226.2	41.0				
4	11+51.10	13+32.45	126	LT		16	5	N/A	9.1	5	5	83.1	0.0	0.0	0.0	0.0	0.0		92.2	202.4	37.0				
4	12+85.58	14+19.55	126	RT		16	5	N/A	8.5	5	5	55.0	0.0	0.0	0.0	0.0	0.0		63.5	155.0	29.1				
4	13+32.45	14+75.44	126	LT		10	5	N/A	5.7	5	5	66.1	0.0	0.0	0.0	0.0	0.0		71.8	158.0	29.6				
4	14+75.44	16+87.26	126	LT		16	5	N/A	8.4	5	5	98.8	0.0	0.0	0.0	0.0	0.0		107.2	232.9	42.1				
4	16+87.26	18+06.92	126	LT		10	5	N/A	7.9	5	5	49.5	0.0	0.0	0.0	0.0	0.0		57.4	134.7	25.7				
4	18+06.92	18+81.20	126	LT	10.0	16	5	1-C	8.0	5	5	26.9	0.0	0.0	0.0	0.0	0.0		34.9	95.3	19.2				
5	32+13.89	32+34.07	126	RT	20.0	15	5	N/A	8.7	5	5	5.3	0.0	0.0	0.0	0.0	0.0		14.0	40.2	10.0			11.0	
5	32+73.44	32+93.44	126	RT	20.0	15	5	N/A	11.2	5	5	8.4	0.0	0.0	0.0	0.0	0.0		19.6	40.0	10.0				
5	39+24.42	39+39.39	126	RT	10.0	5	6	N/A	3.9	6	6	10.0	0.0	0.0	0.0	0.0	0.0		13.9	25.0	7.5				
5	39+24.82	39+39.82	126	LT	10.0	13	5	N/A	2.8	5	6	10.0	0.0	0.0	0.0	0.0	0.0		12.8	33.0	8.8				
				TOTAL	70.0	--	--	--	94.2	--	--	588.2	0.0	0.0	0.0	0.0	0.0	✳	682.4	1569.3	301.1	0.0	0.0	11.0	
				USE	70	--	--	--	94.2	--	--	588.2			0.0			✳	683	1570	302	0	0	11	

QTY IS INCLUDED IN 8" SW FOR PINNED-ON ISLANDS, IF NEED PVMNT REPAIR UNDERNEATH.
SOD IS ESTIMATED AT 2.25' FOR CURB RAMP AREAS AND AT 1.5' FOR LONG SIDEWALK RUNS.

✳ PAY WIDTH INCLUDES INTEGRAL CURB CONC. WIDTH/HEIGHT. SEE TYPICAL SHEET 1 FOR ALL PAY ITEM LIMITS.

PAVED APPROACH

ROUTE	STA.	LOCATION	PAVED APPROACH 8 IN.	TYPE 5 AGGREGATE FOR BASE (4 IN. THICK)	GRAVEL (A) OR CHAT (C) ITEM NO. 3106004	REMARKS
			SY	SY	SY	
126	9+57.96	LT	25.1	25.1	7.5	
126	10+80.42	RT	19.8	19.8		
126	11+63.12	LT	22.3	22.3		
126	12+92.21	RT	20.2	20.2		
126	13+38.32	LT	14.7	14.7		
126	14+13.62	RT	20.6	20.6		
126	14+86.66	LT	39.8	39.8		
126	16+94.28	LT	24.4	24.4		
126	18+13.87	LT	39.1	39.1		
126	39+41.50	LT	3.4	3.4		NW QUAD OF RTE. 126 AND DEPOT ST.
		TOTAL	229.3	229.3	7.5	
		USE	229.3	229	8	

CONCRETE MEDIAN

ROUTE	STA.	STA.	LOCATION	CONCRETE MEDIAN 6 IN.	TYPE 1 AGG FOR BASE (4 IN. THICK)	REMARKS
				SY	SY	
126	32+18.89	32+23.99	RT	2.4	2.4	
126	32+28.60	32+34.10	RT	2.5	2.5	
126	32+73.39	32+78.39	RT	1.8	1.8	
126	32+73.49	32+78.59	RT	2.2	2.2	
126	32+83.48	32+87.08	RT	1.6	1.6	
126	39+24.47	39+29.44	RT	3.4	3.4	
126	39+24.73	39+29.73	LT	2.2	2.2	
126	39+34.99	39+39.40	RT	3.5	3.5	
126	39+34.63	39+39.72	LT	2.2	2.2	
			TOTALS	21.8	21.9	
			USE	21.8	22	

TEMPORARY EROSION AND SEDIMENT CONTROL DEVICES

ROUTE	STA.	LOCATION	SILT FENCE	CURB INLET CHECK	ALT DITCH CHECK	SEDIMENT REMOVAL	REMARKS
			LF	EA	LF	CY	
126	9+64.52	LT	185		12	13.9	
126	10+86.44	RT	200		12	14.0	
126	11+68.13	LT	90		6	6.9	
126	12+57.95	LT	75		3	3.8	
126	12+97.61	RT	110		6	7.1	
126	13+44.32	LT	135		9	10.4	
126	14+96.57	LT	195		12	14.0	
126	17+01.21	LT	110		6	7.1	
126	18+20.43	LT	65		3	3.7	
126	32+18.84	RT	20	1		1.2	
126	32+78.08	RT	30	1		1.3	
126	39+24.29	RT	15			0.2	
126	39+24.96	LT	15		3	3.2	
		TOTAL	1245	2	72	86.5	
		USE	1245	2	72	87	

NOTE: SEDIMENT REMOVAL IS BASED ON 1 CY PER DITCH CHECK
1 CY PER SEDIMENT TRAP AND 1 CY PER 100' OF SILT FENCE.

CONTRACTOR FURNISHED SURVEYING AND STAKING
TOTAL = 1 LUMP SUM

MOBILIZATION
TOTAL = 1 LUMP SUM

SUMMARY OF QUANTITIES
GOLDEN CITY
SHEET 1 OF 6

STATE OF MISSOURI
ROBERT B. GREEN
NUMBER PE-25339
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED 4/21/2025
ROUTE VAR. | STATE MO
DISTRICT SW | SHEET NO. 3
COUNTY BARTON/DADE
JOB NO. J7S3531
CONTRACT ID.
PROJECT NO.
BRIDGE NO.

DESCRIPTION | DATE

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

Bartlett & West
601 MONROE ST. SUITE 201 - JEFFERSON CITY, MO 65101
PHONE 573-634-3181
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IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

DRAINAGE STRUCTURES, PIPES, AND END SECTIONS

ROUTE	DRAINAGE ID	STA	LOCATION	OFFSET	GROUP C PIPE 12 IN. (LF)	CLASS 3 EXCAVATION (CY)	REMARKS
126	P1	9+58	LT	15.96	30.0	5.0	
126	P2	10+80	RT	14.00	20.0	3.0	
126	P3	12+92	RT	15.04	22.0	4.0	
126	P4	14+14	RT	14.86	22.0	4.0	
126	P5	14+87	LT	15.00	34.0	6.0	
126	P6	16+94	LT	16.14	24.0	4.0	
126	P7	18+14	LT	17.65	24.0	4.0	
126	P8	18+76	LT	28.68	12.0	2.0	
				TOTALS	188.0	32.0	
				USE	188	32	

REMOVAL OF IMPROVEMENTS

ROUTE	STA.	STA.	LOCATION	DESCRIPTION	AMOUNT	UNIT	REMARKS
126	9+45.69	9+46.51	LT	ENTRANCE	2.1	SY	
126	9+64.55	9+78.44	LT	ENTRANCE	6.0	SY	
126	10+27.90	10+30.89	LT	SAWCUT	3.0	LF	
126	11+23.45	11+26.16	LT	SAWCUT	3.0	LF	
126	12+86.78	12+95.52	RT	SAWCUT	9.0	LF	
126	12+52.81	12+56.22	LT	SAWCUT	4	LF	
126	13+69.19	13+73.12	RT	SAWCUT	4.0	LF	
126	15+19.03	15+23.86	LT	SAWCUT	5.0	LF	
126	17+01.25	18+05.42	LT	SIDEWALK	31.5	SY	
126	18+07.80	18+19.33	LT	SAWCUT	12.0	LF	
126	32+18.89	32+34.27	RT	SAWCUT	21.0	LF	
126	32+78.34	32+87.08	RT	SAWCUT	21.0	LF	
126	39+24.37	39+39.37	RT	SAWCUT	18.0	LF	
126	39+24.82	39.39.82	LT	SAWCUT	28.0	LF	
				TOTALS	NO DIRECT PAYMENT. INCLUDED IN THE COST OF THE ADA LINEAR GRADING		

CURB AND GUTTER

ROUTE	STA.	STA.	LOCATION	MODIFIED TYPE A GUTTER (LF)	TYPE B CURB AND GUTTER (LF)	TYPE 5 AGGREGATE FOR BASE (4 IN. THICK) (SY)	REMARKS
126	39+19.73	39+24.73	LT	0.0	5.0	1.1	
126	39+24.73	39+54.73	LT	15.0	0.0	3.3	INCULDE 2' X 15' STEEL PLATE
126	39+54.73	39+59.73	LT	0.0	5.0	1.1	
			TOTALS	15.0	10.0	5.5	
			USE	15	10	6	

PAVEMENT MARKING (PERMANENT)

ROUTE	STA.	LOCATION	DESCRIPTION OF LOCATION	PREFORMED THERMOPLASTIC PAVEMENT MARKING, 30 IN. WHITE MIDBLOCK (EA)	REMARKS
126	32+27.00	RT/LT	WEST CROSSING AT CHURCH AVE	5	
126	39+32.08	LT/RT	CROSSING AT DEPOT AVE	7	
		TOTAL		12.0	
		USE		12	

SUMMARY OF QUANTITIES
GOLDEN CITY
SHEET 2 OF 6

STATE OF MISSOURI
ROBERT B. GREEN
NUMBER PE-25339
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED SEALED AND DATED ELECTRONICALLY.

DATE PREPARED: 4/7/2025
ROUTE: VAR. | STATE: MO
DISTRICT: SW | SHEET NO.: 3
COUNTY: BARTON/DADE
JOB NO.: J7S3531
CONTRACT ID.
PROJECT NO.
BRIDGE NO.

DESCRIPTION | DATE

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

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

Bartlett & West
601 MONROE ST. SUITE 201 - JEFFERSON CITY, MO 65101
PHONE 573-634-3181
CERTIFICATE OF AUTHORITY NO. 000167 - ENGINEERING
WWW.BARTLETTWEST.COM

TRUNCATED DOMES, CURB RAMP, SIDEWALK, TYPE 1 AGGREGATE, ADA LINEAR GRADING, TURF TYPE TALL FESCUE SODDING, CURBS (IRWIN)

SHEET	STATION	STATION	LOCATION	LT RT	TRUNC. DOMES	CURB RAMP				SIDEWALK									4" TYPE 1 AGGR.	ADA LINEAR GRADING	SOD	S-CURB			REMARKS
										S.W. WIDTH	✳ PAY WIDTH	4" SDWLK.	4" CUT THRU	4" BUS STOP	4" PASS AREA	8" SDWLK.	8" MODIFD. SDWLK.	INTEGRAL CURB				LESS/EQ 6" (1"–6")	OVER 6" (6"–12")	MODIFIED (12"–30")	
					SF	LENGTH	WIDTH	TYPE	SY	LF	LF	SY	SY	SY	SY	SY	SY	✳ LF	SY	LF	SY	LF	LF	LF	
7	4+20.67	6+75.73	C	LT	0.0	5	5	1-C	8.5	5	5	134.0	0.0	0.0	0.0	0.0	0.0		142.5	269.4	48.2				
7	7+17.78	7+52.34	C	LT	10.0	6	5	1-C	8.2	5	5	19.2	0.0	0.0	0.0	0.0	0.0		27.4	93.4	18.9				
7	7+47.51	7+66.95	C	RT	10.0	5	5	1-C	6.1	5	5	14.4	0.0	0.0	0.0	0.0	0.0		20.5	45.3	10.9				
				TOTAL	20.0	--	--	--	22.8	--	--	167.6	0.0	0.0	0.0	0.0	0.0	✳	190.4	408.2	78.0	0.0	0.0	0.0	
				USE	20	--	--	--	22.8	--	--	167.6				0.0		✳	191	409	78	0	0	0	

QTY IS INCLUDED IN 8" SW FOR PINNED-ON ISLANDS, IF NEED PVMNT REPAIR UNDERNEATH.
SOD IS ESTIMATED AT 2.25' FOR CURB RAMP AREAS AND AT 1.5' FOR LONG SIDEWALK RUNS.

✳ PAY WIDTH INCLUDES INTEGRAL CURB CONC. WIDTH/HEIGHT. SEE TYPICAL SHEET 1 FOR ALL PAY ITEM LIMITS.

PAVED APPROACH (IRWIN)

ROUTE	STA.	LOCATION	PAVED APPROACH (8 IN. THICK)	TYPE 5 AGGREGATE FOR BASE (4 IN. THICK)	GRAVEL (A) OR CHAT (C) ITEM NO. 3106004	REMARKS
			SY	SY	SY	
C	4+15.17	LT	13.0	13.0		
C	6+96.65	LT	51.4	51.4	9.3	
		TOTALS	64.4	64.4	9.3	
		USE	64	64	9	

REMOVAL OF IMPROVEMENTS (IRWIN)

ROUTE	STA	STA.	LOCATION	DESCRIPTION	AMOUNT	UNIT	REMARKS
C	4+64.14	4+66.64	LT	RAMP	2	SY	5' SAWCUT
C	5+98.59	6+71.05	LT	SIDEWALK	19	SY	5' SAWCUT
C	7+52.30	7+64.27	RT	SAWCUT	6	LF	
				TOTAL	NO DIRECT PAYMENT. INCLUDED IN THE COST OF THE ADA LINEAR GRADING		

TEMPORARY EROSION AND SEDIMENT CONTROL DEVICES (IRWIN)

ROUTE	STA.	LOCATION	SILT FENCE	ALT DITCH CHECK	SEDIMENT REMOVAL	REMARKS
			LF	LF	CY	
C	4+20.81	LT	255	15	17.6	
C	7+17.71	LT	35	3	3.4	
C	7+47.76	RT	20	3	3.2	
		TOTAL	310	21	24	
		USE	310	21	24	

NOTE: SEDIMENT REMOVAL IS BASED ON 1 CY PER DITCH CHECK
1 CY PER SEDIMENT TRAP AND 1 CY PER 100' OF SILT FENCE.

PAVEMENT MARKING (PERMANENT) (IRWIN)

ROUTE	LOCATION	DESCRIPTION OF LOCATION	PREFORMED THERMOPLASTIC PAVEMENT MARKING, 30 IN. WHITE MIDBLOCK	REMARKS
			(EA)	
C	7+50.08	CROSSING AT ROUTE C	5.0	
	TOTAL		5.0	
	USE		5	

TRUNCATED DOMES, CURB RAMP, SIDEWALK, TYPE 1 AGGREGATE, ADA LINEAR GRADING, TURF TYPE TALL FESCUE SODDING, CURBS (IANTHA)

SHEET	STATION	STATION	LOCATION	LT RT	TRUNC. DOMES	CURB RAMP				SIDEWALK									4" TYPE 1 AGGR.	ADA LINEAR GRADING	SOD	S-CURB			REMARKS
										S.W. WIDTH	✳ PAY WIDTH	4" SDWLK.	4" CUT THRU	4" BUS STOP	4" PASS AREA	8" SDWLK.	8" MODIFD. SDWLK.	INTEGRAL CURB				LESS/EQ 6" (1"–6")	OVER 6" (6"–12")	MODIFIED (12"–30")	
					SF	LENGTH	WIDTH	TYPE	SY	LF	LF	SY	SY	SY	SY	SY	SY	✳ LF	SY	LF	SY	LF	LF	LF	
6	343+66.13	343+78.31	W	LT	10.0	6	5	1-C	4.5	5	5	9.5	0.0	0.0	0.0	0.0	0.0		14.0	24.2	7.3				
6	343+72.48	343+93+.06	W	RT	10.0	6	5	1-C	8.5	5	5	16.0	0.0	0.0	0.0	0.0	0.0		24.5	40.5	10.1				
				TOTAL	20.0	--	--	--	13.0	--	--	25.5	0.0	0.0	0.0	0.0	0.0	✳	38.5	64.8	17.4	0.0	0.0	0.0	
				USE	20	--	--	--	13.0	--	--	25.5				0.0		✳	39	65	18	0	0	0	

QTY IS INCLUDED IN 8" SW FOR PINNED-ON ISLANDS, IF NEED PVMNT REPAIR UNDERNEATH.
SOD IS ESTIMATED AT 2.25' FOR CURB RAMP AREAS AND AT 1.5' FOR LONG SIDEWALK RUNS.

✳ PAY WIDTH INCLUDES INTEGRAL CURB CONC. WIDTH/HEIGHT. SEE TYPICAL SHEET 1 FOR ALL PAY ITEM LIMITS.

PAVEMENT MARKING (PERMANENT) (IANTHA)

ROUTE	LOCATION	DESCRIPTION OF LOCATION	PREFORMED THERMOPLASTIC PAVEMENT MARKING, 30 IN. WHITE MIDBLOCK	REMARKS
			(EA)	
W	RT/LT	CROSSING OF HWY W	5.0	
		TOTAL	5.0	
		USE	5	

TEMPORARY EROSION AND SEDIMENT CONTROL DEVICES (IANTHA)

ROUTE	STA.	LOCATION	SILT FENCE	ALT DITCH CHECK	SEDIMENT REMOVAL	REMARKS
			LF	LF	CY	
W	343+59.24	LT	50	3	3.5	
W	343+68.02	RT	100	3	4.0	
		TOTAL	150.0	6.0	7.5	
		USE	150	6	8	

NOTE: SEDIMENT REMOVAL IS BASED ON 1 CY PER DITCH CHECK
1 CY PER SEDIMENT TRAP AND 1 CY PER 100' OF SILT FENCE.

DRAINAGE STRUCTURES, PIPES, AND END SECTIONS (IANTHA)

ROUTE	DRAINAGE ID	STA	OFFSET	GROUP C PIPE 12 IN.	CLASS 3 EXCAVATION	REMARKS
				(LF)	(CY)	
W	P1	343+68.88	30.69	12.0	2.0	INCLUDE 1 COUPLING BAND
			TOTALS	12.0	2.0	
			USE	12	2	

PRECAST LIDS ARE INCLUDED IN PER FT QUANTITY FOR INLETS

REMOVAL OF IMPROVEMENTS (IANTHA)

ROUTE	STA.	STA.	LOCATION	DESCRIPTION	AMOUNT	UNIT	REMARKS
W	343+90.76	343+95.20	RT	RAMP	2.5	SY	4' SAWCUT
				TOTALS	NO DIRECT PAYMENT. INCLUDED IN THE COST OF THE ADA LINEAR GRADING		

SUMMARY OF QUANTITIES
IRWIN AND IANTHA
SHEET 3 OF 6

STATE OF MISSOURI
ROBERT B. GREEN
NUMBER PE-25339
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED SEALED AND DATED ELECTRONICALLY.

DATE PREPARED 4/21/2025
ROUTE VAR. | STATE MO
DISTRICT SW | SHEET NO. 3
COUNTY BARTON/DADE
JOB NO. J7S3531
CONTRACT ID.
PROJECT NO.
BRIDGE NO.

DESCRIPTION | DATE

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
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TRUNCATED DOMES, CURB RAMP, SIDEWALK, TYPE 1 AGGREGATE, ADA LINEAR GRADING, TURF TYPE TALL FESCUE SODDING, CURBS

SHEET	STATION	STATION	LOCATION	LT RT	TRUNC. DOMES	CURB RAMP				SIDEWALK									4" TYPE 1 AGGR.	ADA LINEAR GRADING	SOD	S-CURB			REMARKS
										S.W. WIDTH	✳ PAY WIDTH	4" SDWLK.	4" CUT THRU	4" BUS STOP	4" PASS AREA	8" SDWLK.	8" MODIFD. SDWLK.	INTEGRAL CURB				LESS/EQ 6" (1"–6")	OVER 6" (6"–12")	MODIFIED (12"–30")	
					SF	LENGTH	WIDTH	TYPE	SY	LF	LF	SY	SY	SY	SY	SY	SY	✳ LF	SY	LF	SY	LF	LF	LF	
8	11+64.44	12+35.21	160	RT	10.0	5	5	1-C	6.4	5	5	32.3	0.0	0.0	0.0	0.0	0.0		38.7	89.7	18.2				
8	12+35.21	13+87.57	160	RT	0.0	5	5	1-C	5.8	5	5	67.6	0.0	0.0	0.0	0.0	0.0		73.4	147.4	27.9				
8	13+87.57	16+86.80	160	RT	0.0	5	5	1-C	5.7	5	5	152.1	0.0	0.0	0.0	0.0	0.0		157.8	283.8	50.6				
8	17+17.54	18+86.96	160	RT	0.0	5	5	1-C	5.6	5	5	88.6	0.0	0.0	0.0	0.0	0.0		94.2	169.4	31.5				
8	19+38.81	21+50.71	160	RT	10.0	5	5	1-C	5.6	5	5	112.2	0.0	0.0	0.0	0.0	0.0		117.8	211.9	38.6				
9	32+33.15	32+58.36	160	RT	20.0	6	5	1-C	11.2	5	5	6.5	0.0	0.0	0.0	0.0	0.0		17.7	42.3	10.3	25.2			
9	32+48.65	32+71.65	160	LT	10.0	5	7	1-C	10.4	7	5	7.3	0.0	0.0	0.0	0.0	0.0		17.7	19.7	6.6				
9	36+46.01	36+65.43	160	RT	20.0	5	7	3-B	5.6	7	5	9.7	0.0	0.0	0.0	0.0	0.0		15.3	37.3	9.5	7.7			
9	36+53.37	36+58.37	160	LT	10.0	5	5	1-C	3.9	5	5	5.6	0.0	0.0	0.0	0.0	0.0		9.5	17.1	6.1				
10	40+84.74	41+14.04	160	RT	30.0	5	5	3-A	9.2	5	5	14.8	0.0	0.0	0.0	0.0	0.0		24.0	31.4	8.5	10.5			
10	40+99.75	41+18.54	160	LT	20.0	5	5	1-C	12.9	5	5	8.4	0.0	0.0	0.0	0.0	0.0		21.3	43.8	10.6				
10	0+13.45	0+39.48	160	LT	20.0	5	5	1-C	10.2	5	5	13.4	0.0	0.0	0.0	0.0	0.0		23.6	47.4	11.2				
10	0+24.01	0+50.41	160	RT	20.0	5	5	3-E	9.1	5	5	16.0	0.0	0.0	0.0	0.0	0.0		25.1	29.6	8.2				
10	3+48.89	3+71.72	160	LT	10.0	5	5	1-C	6.4	5	5	5.3	0.0	0.0	0.0	0.0	0.0		11.7	16.6	6.1				
10	3+94.18	4+10.01	160	LT	20.0	5	5	1-C	13.6	5	5	2.8	0.0	0.0	0.0	0.0	0.0		16.4	30.0	8.3				
10	4+04.61	4+09.74	160	RT	10.0	5	5	1-C	6.0	5	5	5.6	0.0	0.0	0.0	0.0	0.0		11.6	20.8	6.8				
11	3+44.01	3+59.00	97	LT	10.0	5	5	1-C	5.2	5	5	10.3	0.0	0.0	0.0	0.0	0.0		15.5	16.4	6.0				
11	3+49.14	3+54.21	97	RT	10.0	5	5	1-C	4.6	5	5	4.6	0.0	0.0	0.0	0.0	0.0		9.2	34.3	9.0				
11	11+45.88	11+68.75	97	LT	24.0	5	6	1-C	6.7	6	5	12.3	0.0	0.0	0.0	0.0	0.0		19.0	41.4	10.2				
11	11+51.27	11+74.45	97	RT	26.0	5	5	1-C	8.9	5	5	8.7	0.0	0.0	0.0	0.0	0.0		17.6	37.8	9.6				
			TOTAL		280.0	--	--	--	153.0	--	--	584.1	0.0	0.0	0.0	0.0	0.0	✳	737.1	1368.2	293.8	43.4	0.0	0.0	
			USE		280	--	--	--	153.0	--	--	584.1				0.0		✳	738	1369	294	44	0	0	

QTY IS INCLUDED IN 8" SW FOR PINNED-ON ISLANDS, IF NEED PVMNT REPAIR UNDERNEATH.
SOD IS ESTIMATED AT 2.25' FOR CURB RAMP AREAS AND AT 1.5' FOR LONG SIDEWALK RUNS.

✳ PAY WIDTH INCLUDES INTEGRAL CURB CONC. WIDTH/HEIGHT. SEE TYPICAL SHEET 1 FOR ALL PAY ITEM LIMITS.

DRAINAGE STRUCTURES, PIPES, AND END SECTIONS

ROUTE	DRAINAGE ID	STA	LOCATION	OFFSET	GROUP C PIPE 12 IN.	GROUP C PIPE 15 IN.	TYPE A DROP INLET 2' X 2'	CURVED VANE GRATE	TYPE S-1 INLET 3' X 2'	GRATE AND BEARING PLATE 3' X 2'	CLASS 3 EXCAVATION	REMARKS
					(LF)	(LF)	(FT)	(EA)	(FT)	(EA)	(CY)	
160	I-1	41+16.14	LT	25.08'			4.0	1.0			1.3	
160	I-2	00+22.93	RT	32.64'			2.0	1.0			1.0	
160	P1	00+28.8	RT	32.70'	10.0						3.0	
160	I-3	00+34.67	RT	32.77'					4.0	1.0	1.3	
160	P2	4+07.18	RT	20.52'		18.0					5.0	
160	P3	4+10.03	LT	21.74'	14.0						3.0	
97	P4	3+51.46	LT	14.77'		14.0					4.0	
97	P5	3+52.83	RT	19.78'		12.0					4.0	
				TOTALS	24.0	44.0	6.0	2.0	4.0	1.0	22.6	
				USE	24	44	6	2	4	1.0	23	

PRECAST LIDS ARE INCLUDED IN PER FT QUANTITY FOR INLETS

CURB AND GUTTER

ROUTE	STA.	STA.	LOCATION	TYPE A CURB AND GUTTER	MODIFIED TYPE A GUTTER WITH STEEL PLATE	TYPE B CURB AND GUTTER	TYPE 5 AGGREGATE FOR BASE (4 IN. THICK)	REMARKS
				LF	LF	LF	SY	
160	12+56.94	12+76.79	RT					
160	32+39.96	32+66.65	LT			33.8	11.3	
160	32+32.48	32+56.25	RT					
160	36+51.76	36+61.64	LT	10.0			3.3	
160	36+45.39	36+53.02	RT					
160	40+94.84	41+17.04	RT			34.5	11.5	
160	40+99.77	41+23.34	LT			46.9	15.6	
160	0+10.75	0+34.84	LT			31.5	10.5	
160	0+21.38	0+35.82	RT			25.5	8.5	
97	11+50.57	11+63.77	LT		10.5		2.9	INCLUDE 2.5' X 10.5' STEEL PLATE
97	11+61.28	11+63.78	LT		8.0		2.2	INCLUDE 2.5' X 8' STEEL PLATE
97	11+51.27	11+63.51	RT		9.5		2.1	INCLUDE 2' X 9.5' STEEL PLATE
			TOTALS	10.0	28.0	172.2	67.9	
			USE	10.0	28.0	172.2	68.0	

SUMMARY OF QUANTITIES
LOCKWOOD
SHEET 4 OF 6

STATE OF MISSOURI
ROBERT B. GREEN
NUMBER PE-25339
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED SEALED AND DATED ELECTRONICALLY.

DATE PREPARED 4/21/2025
ROUTE VAR. | STATE MO
DISTRICT SW | SHEET NO. 3
COUNTY BARTON/DADE
JOB NO. J7S3531
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DESCRIPTION | DATE

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

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PHONE 573-634-3181
CERTIFICATE OF AUTHORITY NO. 000167 - ENGINEERING
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PAVEMENT MARKING (PERMANENT)

ROUTE	STA.	LOCATION	DESCRIPTION OF LOCATION	PREFORMED THERMOPLASTIC PAVEMENT MARKING, 30 IN. WHITE MIDBLOCK (EA)	PREFORMED THERMOPLASTIC STOP BAR 24 IN. WHITE (LF)	PAVEMENT MARKING REMOVAL (LF)	REMARKS
160	32+51.12	RT/LT	CROSSING AT N SYCAMORE ST.	6.0			
160	36+55.66	RT/LT	CROSSING AT CHESTNUT ST.	5.0			
160	41+02.27	RT/LT	CROSSING AT ROUTE 97	5.0			
160	41+39.01	RT	CROSSING ACROSS ROUTE 97	5.0			
160	41+37.95	LT	CROSSING ACROSS ROUTE 97	5.0	10.0	8.0	
160	0+32.38	RT/LT	CROSSING AT ROUTE 97	5.0			
160	4+07.33	RT/LT	CROSSING AT N LOCUST ST.	5.0			
97	3+52.47	RT/LT	CROSSING AT E 3RD ST.	5.0			
97	11+58.73	RT/LT	CROSSING AT E 5TH ST.	5.0			
			TOTALS	46.0	10.0	8.0	
			USE	46	10	10	

PAVED APPROACH

ROUTE	STA.	LOCATION	TYPE 5 AGGREGATE FOR BASE (4 IN. THICK) SY	PAVED APPROACH 8 IN. SY	REMARKS
160	12+47.70	RT	28.0	28.0	
160	13+95.32	RT	21.3	21.3	
160	32+40.00	RT	26.2	26.2	
160	36+63.00	RT	29.8	29.8	
160	41+20.00	LT	9.5	9.5	
97	11+74.00	RT	18.2	18.2	
		TOTALS	133.0	133.0	
		USE	133	133	

REMOVAL OF IMPROVEMENTS

ROUTE	STA.	STA.	LOCATION	DESCRIPTION	AMOUNT	UNIT	REMARKS
160	12+55.58	12+74.73	RT	ENTRANCE	5.1	SY	3' SAWCUT
160	32+37.70	32+48.29	RT	RAMP	3.1	SY	14' SAWCUT
160	32+42.92	32+66.65	LT	RAMP	2.7	SY	7' SAWCUT
160	32+45.26	32+58.32	RT	SIDEWALK	4.0	SY	12' SAWCUT
160	36+53.37	36+58.37	LT	SAWCUT	12.0	LF	
160	36+46.15	36+58.14	RT	SAWCUT	14.0	LF	
160	40+89.79	41+06.58	RT	SIDEWALK	4.6	SY	8' SAWCUT
160	41+10.14	41+14.05	RT	SAWCUT	4'	LF	
160	40+99.75	40+99.77	LT	SAWCUT	15'	LF	
160	0+24.35	0+39.48	LT	SAWCUT	8'	LF	
160	0+24.48	0+45.41	RT	SAWCUT	12'	LF	
160	3+53.89	3+53.89	LT	SAWCUT	4'	LF	
160	3+72.55	3+77.65	RT	RAMP	3.6	SY	5' SAWCUT
97	3+44.01	3+59.00	LT	SAWCUT	15.0	LF	
97	3+50.03	3+55.03	RT	SAWCUT	11.0	LF	
97	11+45.88	11+63.80	LT	SAWCUT	11.0	LF	
97	11+51.27	11+61.56	RT	SAWCUT	15.0	LF	
				TOTALS	NO DIRECT PAYMENT. INCLUDED IN THE COST OF THE ADA LINEAR GRADING		

CONCRETE MEDIAN

ROUTE	STA.	STA.	LOCATION	CONCRETE MEDIAN 6 IN. SY	TYPE 1 AGG FOR BASE (4 IN. THICK) SY	REMARKS
160	36+58.06	36+61.79	RT	0.7	0.7	
160	41+04.76	41+16.86	LT	8.4	8.4	
160	41+04.84	41+10.31	RT	1.1	1.1	
160	41+14.83	41+18.84	LT	3.7	3.7	
160	0+16.05	0+29.75	LT	11.0	11.0	
160	0+26.04	0+30.42	RT	0.8	0.8	
97	11+54.26	11+56.26	RT	1.0	1.0	
97	11+61.52	11+63.52	RT	1.0	1.0	
97	11+53.26	11+55.26	LT	1.0	1.0	
97	11+61.27	11+64.10	LT	1.2	1.2	
97	11+63.78	11+68.78	LT	1.2	1.2	
97	11+63.80	11+68.73	LT	1.0	1.0	
			TOTALS	32.1	32.1	
			USE	32	32	

TEMPORARY EROSION AND SEDIMENT CONTROL DEVICES

ROUTE	STA.	LOCATION	SILT FENCE LF	CURB INLET CHECK EA	ALTERNATE DITCH CHECK LF	ROCK DITCH CHECK LF	SEDIMENT REMOVAL CY	REMARKS
160	11+65.87	RT	70	2			2.7	
160	12+55.56	RT	135	1			2.4	
160	14+03.02	RT	285	4			6.9	
160	17+17.54	RT	170	4			5.7	
160	19+38.81	RT	215	4			6.2	
160	32+32.45	RT	35				0.4	
160	32+43.03	LT	25				0.3	
160	36+46.15	RT	20				0.2	
160	36+48.66	LT	15				0.2	
160	40+89.79	RT	25	1			1.3	
160	41+16.14	LT		1			1.0	
160	0+28.01	LT	15				0.2	
160	0+23.10	RT	25	2			2.3	
160	3+53.92	LT	35		5		5.4	
160	3+94.22	LT	50		5		5.5	
160	4+01.95	RT	45		5		5.5	
97	3+51.62	LT	20			6	0.2	
97	3+52.25	RT				6	0.0	
97	11+45.81	LT	15				0.2	
97	11+44.86	RT	25				0.3	
		TOTAL	1225	19	15	12	47	
		USE	1225	19	15	12	47	

NOTE: SEDIMENT REMOVAL IS BASED ON 1 CY PER DITCH CHECK,
1 CY PER INLET CHECK AND 1 CY PER 100 LINEAR FEET OF SILT FENCE.

CONCRETE LIGHTING FOUNDATION

ROUTE	STA.	OFFSET	LOCATION	EACH	REMARKS
97	11+51.62	26.89	LT	1.0	
			TOTALS	1.0	
			USE	1	

SUMMARY OF QUANTITIES
LOCKWOOD
SHEET 5 OF 6

STATE OF MISSOURI
ROBERT B. GREEN
NUMBER PE-2539
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED 4/21/2025
ROUTE VAR. | STATE MO
DISTRICT SW | SHEET NO. 3
COUNTY BARTON/DADE
JOB NO. J7S3531
CONTRACT ID.
PROJECT NO.
BRIDGE NO.

DESCRIPTION | DATE

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

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

Bartlett & West
601 MONROE ST. SUITE 201 - JEFFERSON CITY, MO 65101
PHONE 573-634-3181
CERTIFICATE OF AUTHORITY NO. 000167 - ENGINEERING
WWW.BARTLETTWEST.COM

SIGN	SIZE IN.	AREA SQ.FT.	QTY EACH	TOTAL AREA SQ.FT.	QTY RELOC EACH	TOTAL RELOC SQ.FT.	SIGN NUM.	DESCRIPTION
WARNING SIGNS								
WO1-1L	48X48	16.00						TURN (SYMBOL LEFT)
WO1-1R	48X48	16.00						TURN (SYMBOL RIGHT)
WO1-2L	48X48	16.00						CURVE (SYMBOL LEFT)
WO1-2R	48X48	16.00						CURVE (SYMBOL RIGHT)
WO1-3L	48X48	16.00						REVERSE TURN (SYMBOL LEFT)
WO1-3R	48X48	16.00						REVERSE TURN (SYMBOL RIGHT)
WO1-4L	48X48	16.00						REVERSE CURVE (SYMBOL LEFT)
WO1-4R	48X48	16.00						REVERSE CURVE (SYMBOL RIGHT)
WO1-4bL	48X48	16.00						DOUBLE ARROW REVERSE CURVE (SYMBOL LEFT)
WO1-4bR	48X48	16.00						DOUBLE ARROW REVERSE CURVE (SYMBOL RIGHT)
WO1-4cL	48X48	16.00						TRIPLE ARROW REVERSE CURVE (SYMBOL LEFT)
WO1-4cR	48X48	16.00						TRIPLE ARROW REVERSE CURVE (SYMBOL RIGHT)
WO1-6	60X30	12.50						HORIZONTAL ARROW (SYMBOL)
WO1-6a	72X36	18.00						HORIZ. ARROW (SYMBOL ON PERMANENT BARRICADE)
WO1-7	60X30	12.50						DOUBLE HEAD HORIZONTAL ARROW (SYMBOL)
WO1-7a	72X36	18.00						DOUBLE HEAD HORIZ. ARROW (SYMBOL ON PERM. BARR.)
WO1-8	18X24	3.00						CHEVRON (SYMBOL)
WO1-8a	30X36	7.50						CHEVRON (SYMBOL FOR DIVIDED HIGHWAYS)
WO3-1	48X48	16.00						STOP AHEAD (SYMBOL)
WO3-2	48X48	16.00						YIELD AHEAD (SYMBOL)
WO3-3	48X48	16.00						SIGNAL AHEAD (SYMBOL)
WO3-4	48X48	16.00						BE PREPARED TO STOP
WO3-5	48X48	16.00	4	64			3	SPEED LIMIT AHEAD
WO4-1L	48X48	16.00						MERGE (SYMBOL FROM LEFT)
WO4-1R	48X48	16.00						MERGE (SYMBOL FROM RIGHT)
WO4-1aL	48X48	16.00						MERGE (LEFT)
WO4-1aR	48X48	16.00						MERGE (RIGHT)
WO5-1	48X48	16.00						ROAD/BRIDGE/RAMP NARROWS
WO5-3	48X48	16.00						ONE LANE BRIDGE
WO5-5	48X48	16.00						NARROW LANES
WO6-1	48X48	16.00						DIVIDED HIGHWAY (SYMBOL)
WO6-2	48X48	16.00						DIVIDED HIGHWAY END (SYMBOL)
WO6-3	48X48	16.00						TWO WAY TRAFFIC (SYMBOL)
WO7-3a	30X24	5.00						NEXT XX MILES (PLAQUE)
WO8-1	48X48	16.00						BUMP
WO8-2	48X48	16.00						DIP
WO8-3	48X48	16.00						PAVEMENT ENDS
WO8-4	48X48	16.00						SOFT SHOULDER
WO8-5	48X48	16.00						SLIPPERY WHEN WET (SYMBOL)
WO8-6	48X48	16.00						TRUCK CROSSING
WO8-6c	48X48	16.00						TRUCK ENTRANCE
WO8-7	36X36	9.00						LOOSE GRAVEL
WO8-7a	36X36	9.00						FRESH OIL / LOOSE GRAVEL
WO8-9	48X48	16.00						LOW SHOULDER
WO8-11	48X48	16.00						UNEVEN LANES
WO8-12	48X48	16.00						NO CENTER LINE
WO8-15	48X48	16.00						GROOVED PAVEMENT
WO8-15P	30X24	5.00						MOTORCYCLE (PLAQUE)
WO8-17L	48X48	16.00						SHOULDER DROP-OFF (SYMBOL LEFT)
WO8-17R	48X48	16.00						SHOULDER DROP-OFF (SYMBOL RIGHT)
WO8-17P	30X24	5.00						SHOULDER DROP-OFF (PLAQUE)
W10-1	42RND.	9.62						RAILROAD CROSSING
WO12-1	24X24	4.00						DOUBLE DOWN ARROW (SYMBOL)
WO12-2	48X48	16.00						LOW CLEARANCE (SYMBOL)
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	8	128			2-2A	ROAD/BRIDGE/RAMP WORK AHEAD
WO20-2	48X48	16.00						DETOUR AHEAD
WO20-3	48X48	16.00						ROAD CLOSED AHEAD
WO20-4	48X48	16.00	4	64			7	ONE LANE ROAD AHEAD
WO20-5	48X48	16.00						RIGHT/CENTER/LEFT LANE CLOSED AHEAD
WO20-5a	48X48	16.00						2 RIGHT/CENTER/LEFT LANES CLOSED AHEAD
WO20-6a	48X48	16.00						RIGHT/CENTER/LEFT LANE CLOSED
WO20-7a	48X48	16.00	4	64			8	FLAGGER (SYMBOL)
WO21-2	36X36	9.00						FRESH OIL
WO21-5	48X48	16.00						SHOULDER WORK / SHOULDER WORK AHEAD
WO22-1	48X48	16.00						BLASTING ZONE AHEAD
WO22-2	42X36	10.50						TURN OFF 2-WAY RADIO AND PHONE
WO22-3	42X36	10.50						END BLASTING ZONE
GO22-1	21X15	2.19						WET PAINT (ARROW PIVOTS)

SIGN	SIZE IN.	AREA SQ.FT.	QTY EACH	TOTAL SQ.FT.	QTY RELOC EACH	TOTAL RELOC SQ.FT.	SIGN NUM.	DESCRIPTION
GUIDE SIGNS								
E05-1	36X48	12.00						GORE EXIT
E05-2	48X36	12.00						EXIT OPEN
E05-2a	48X36	12.00						EXIT CLOSED
GO20-1	60X24	10.00						ROAD WORK NEXT XX MILES
GO20-2	48X24	8.00						END ROAD WORK
GO20-4	36X18	4.50						PILOT CAR FOLLOW ME
GO20-4a	42X30	8.75						PILOT CAR IN USE WAIT & FOLLOW
GO20-4a	18X12	1.50						PILOT CAR IN USE WAIT & FOLLOW
GO20-5aP	36X24	6.00	4	24			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	8	96			4-25	SPEED LIMIT XX
R3-1	48X48	16.00						NO RIGHT TURN (SYMBOL)
R3-2	48X48	16.00						NO LEFT TURN (SYMBOL)
R3-3	36X36	9.00						NO TURNS
R3-4	48X48	16.00						NO U-TURN (SYMBOL)
R3-7L	30X30	6.25						LEFT LANE MUST TURN LEFT
R3-7R	30X30	6.25						RIGHT LANE MUST TURN RIGHT
R4-1	36X48	12.00						DO NOT PASS
R4-2	36X48	12.00						PASS WITH CARE
R4-7a	36X48	12.00						KEEP RIGHT (HORIZONTAL ARROW)
R4-8a	36X48	12.00						KEEP LEFT (HORIZONTAL ARROW)
R5-1	30X30	6.25						DO NOT ENTER
R5-1a	36X24	6.00						WRONG WAY
R6-1L	54X18	6.75						ONE WAY ARROW (LEFT)
R6-1R	54X18	6.75						ONE WAY ARROW (RIGHT)
R6-2L	24X30	5.00						ONE WAY (LEFT)
R6-2R	24X30	5.00						ONE WAY (RIGHT)
R9-9	24X12	2.00	16	32			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						POINT OF PRESENCE
CONST-8	48X36	12.00	2	24			61	WORK ZONE NO PHONE ZONE

616-10.05 CONSTRUCTION SIGNS	TOTAL
	496

616-10.10 RELOCATED SIGNS	TOTAL
	0

ITEM NUMBER	TOTAL QTY	EFFECTIVE: 07-01-2024 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)
6123001		TRUCK MOUNTED ATTENUATOR (TMA)
6161008	8	ADVANCED WARNING RAIL SYSTEM
6161012		BUOYS (BOATS KEEP OUT)
6161013		BUOYS (NO WAKE)
6161014		SPECIAL SIGN ASSEMBLY (BOATS KEEP OUT)
6161025	100	CHANNELIZER (TRIM LINE)
6161030	16	TYPE III MOVEABLE BARRICADE
6161033	10	DIRECTION INDICATOR BARRICADE
6161040	2	FLASHING ARROW PANEL
6161047		TYPE III 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	4	CHANGEABLE MESSAGE SIGN WITH COMM. INTERFACE- CONTRACTOR FURNISHED/RETAINED
6169902	12	ADA COMPLIANT MOVEABLE BARRICADES
6162000A		WORK ZONE TRAFFIC SIGNAL SYSTEM
6162002		TEMPORARY LONG-TERM RUMBLE STRIPS
6173600D		TEMPORARY TRAFFIC BARRIER CONTRACTOR FURNISHED/RETAINED
6173602B		TEMPORARY TRAFFIC BARRIER CONTRACTOR FURNISHED/COMMISSION RETAINED
6174000A		TEMP. TRAFFIC BARRIER HEIGHT TRANSITION
6175010A		RELOCATING TEMPORARY TRAFFIC BARRIER
6176000B		TEMPORARY TRAFFIC BARRIER COMMISSION FURNISHED/RETAINED
6177000B		TEMP. TRAFFIC BARRIER HEIGHT TRANSITION COMMISSION FURNISHED/RETAINED
6208064A		TEMPORARY RAISED PAVEMENT MARKER
9029400		TEMPORARY TRAFFIC SIGNALS
9029401		TEMPORARY TRAFFIC SIGNALS AND LIGHTING

SUMMARY OF QUANTITIES
SHEET 6 OF 6

STATE OF MISSOURI
ROBERT B. GREEN
NUMBER PE-25339
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED SEALED AND DATED ELECTRONICALLY.

DATE PREPARED
4/21/2025

ROUTE	STATE
VAR.	MO

DISTRICT	SHEET NO.
SW	3

COUNTY
BARTON/DADE

JOB NO.
J7S3531

CONTRACT ID.

PROJECT NO.

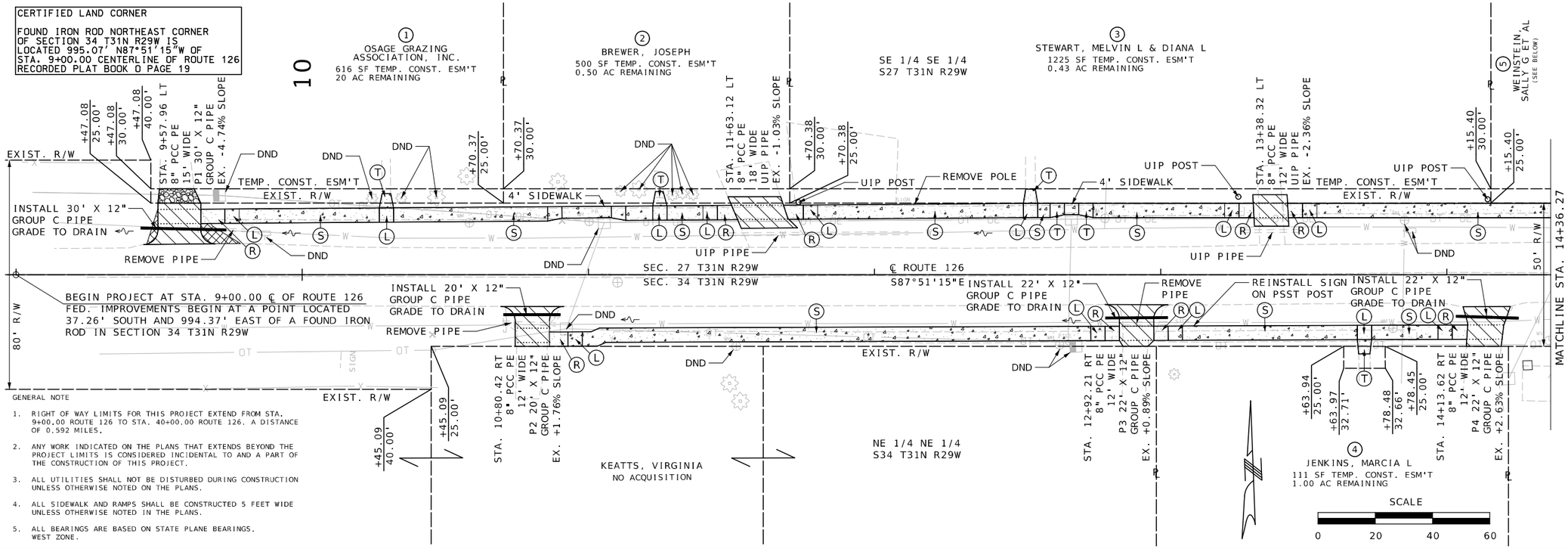
BRIDGE NO.

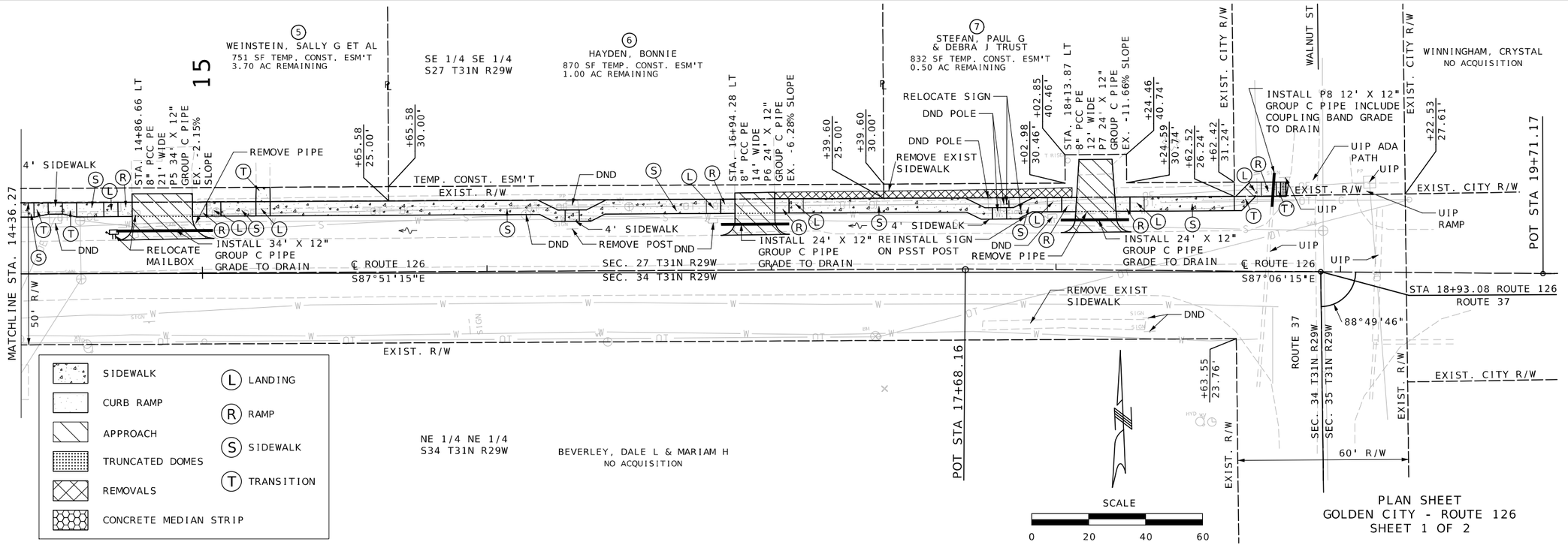
DESCRIPTION	DATE

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

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

Bartlett & West
601 MONROE ST. SUITE 201 - JEFFERSON CITY, MO 65101
PHONE 573-634-3181
CERTIFICATE OF AUTHORITY NO. 000167 - ENGINEERING
WWW.BARTLETTWEST.COM





PLAN SHEET
GOLDEN CITY - ROUTE 126
SHEET 1 OF 2

STATE OF MISSOURI
ROBERT B. GREEN
NUMBER PE-25339
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED SEALED AND DATED ELECTRONICALLY.

DATE PREPARED
3/3/2025

ROUTE	STATE
VAR.	MO
DISTRICT	SHEET NO.
SW	4

COUNTY
BARTON/DADE

JOB NO.
J7S3531

CONTRACT ID.

PROJECT NO.

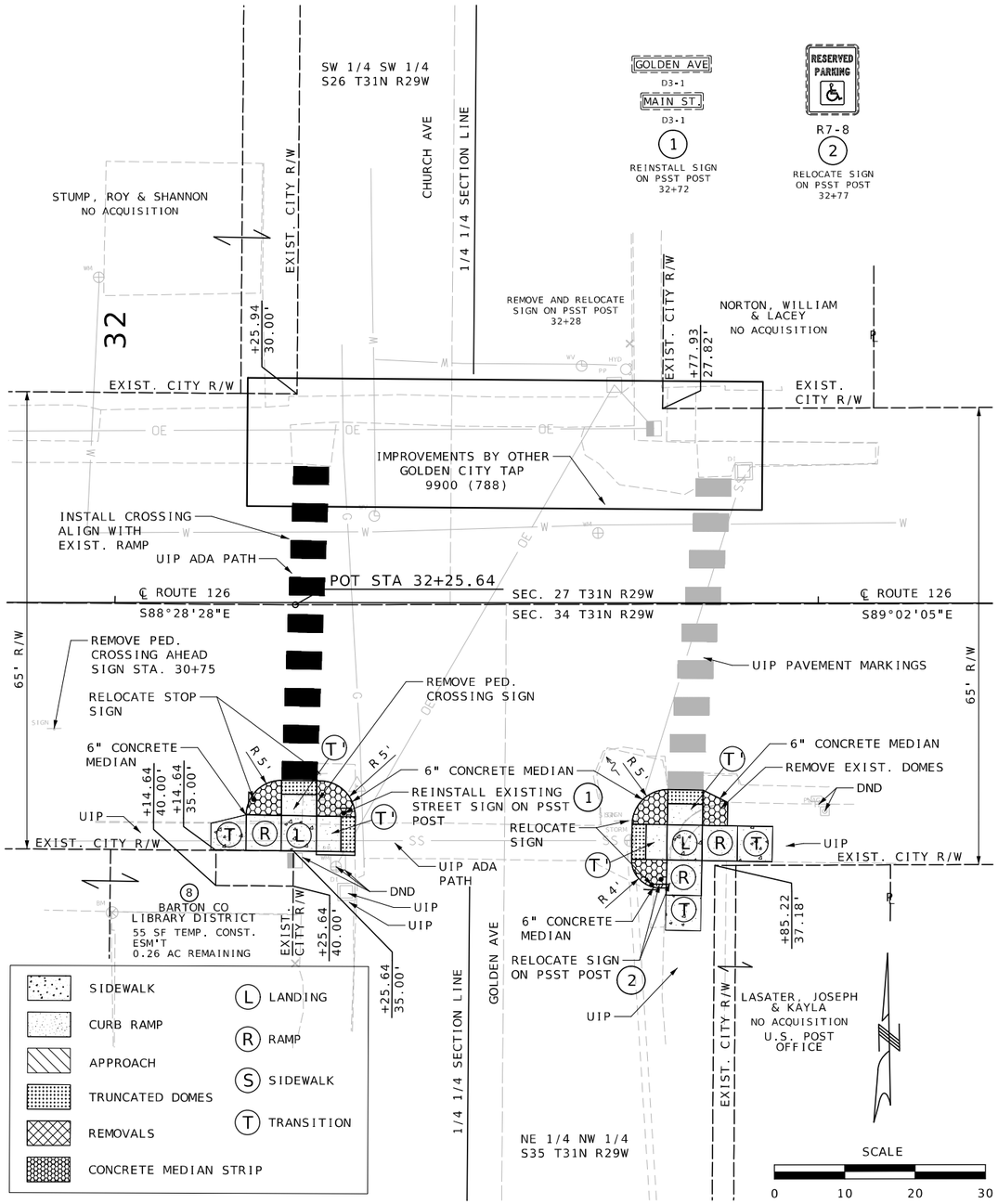
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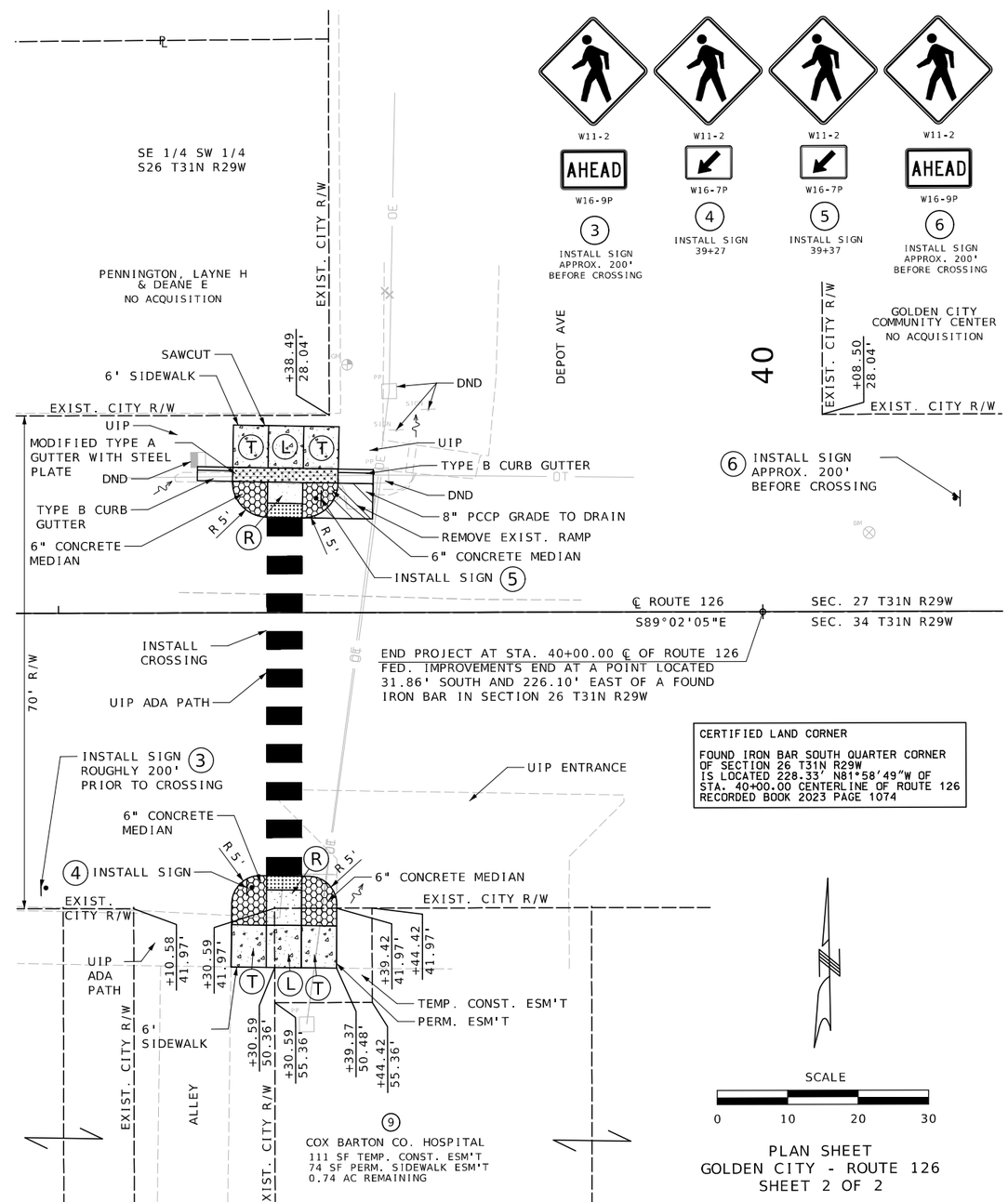
DATE	DESCRIPTION

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

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

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PLAN SHEET
GOLDEN CITY - ROUTE 126
SHEET 2 OF 2

STATE OF MISSOURI
ROBERT B. GREEN
NUMBER PE-25339
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED SEALED AND DATED ELECTRONICALLY.

DATE PREPARED
3/3/2025

ROUTE	STATE
VAR.	MO
DISTRICT	SHEET NO.
SW	5

COUNTY
BARTON/DADE

JOB NO.
J7S3531

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DATE	DESCRIPTION

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

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

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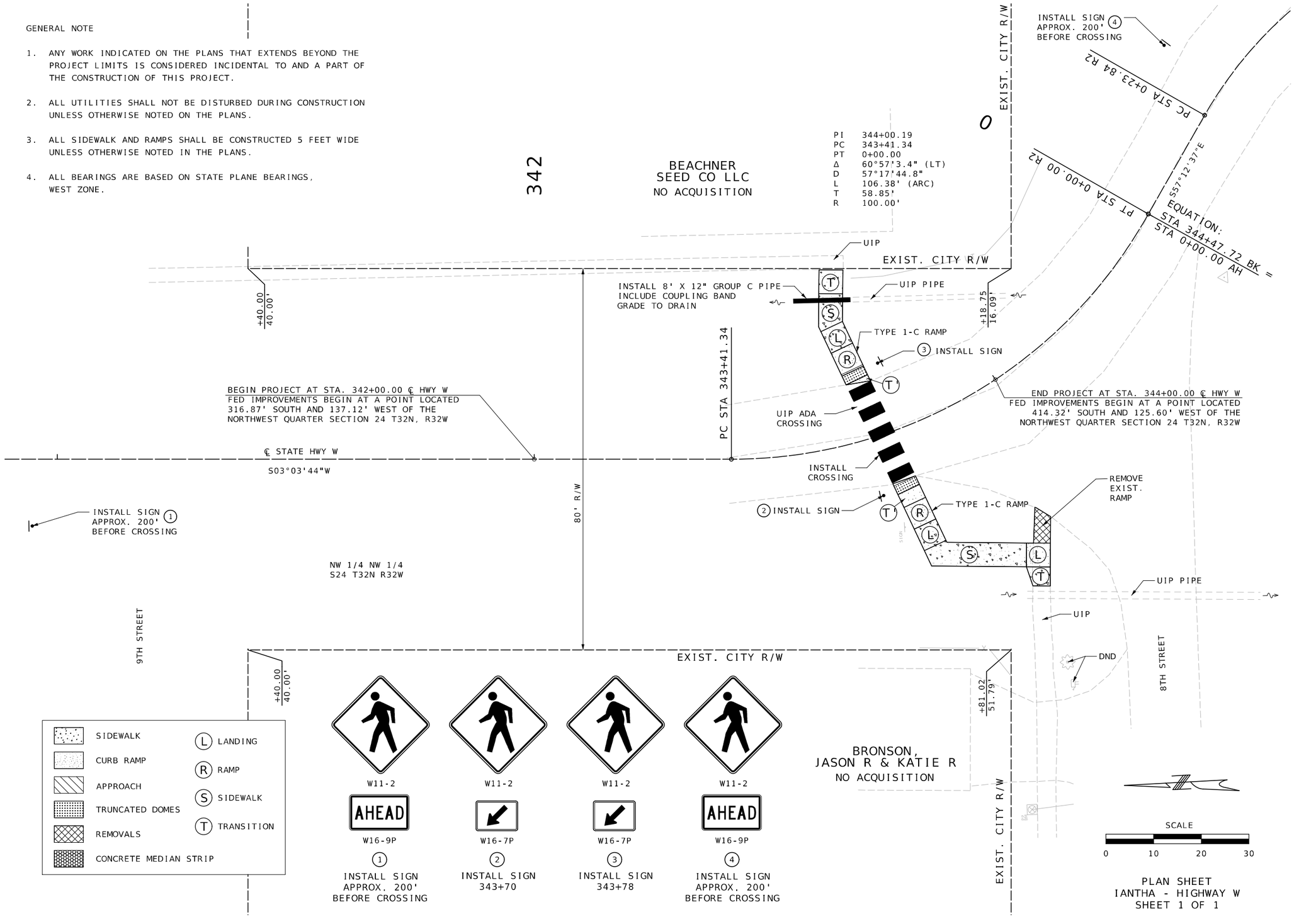
GENERAL NOTE

1. ANY WORK INDICATED ON THE PLANS THAT EXTENDS BEYOND THE PROJECT LIMITS IS CONSIDERED INCIDENTAL TO AND A PART OF THE CONSTRUCTION OF THIS PROJECT.

2. ALL UTILITIES SHALL NOT BE DISTURBED DURING CONSTRUCTION UNLESS OTHERWISE NOTED ON THE PLANS.

3. ALL SIDEWALK AND RAMPS SHALL BE CONSTRUCTED 5 FEET WIDE UNLESS OTHERWISE NOTED IN THE PLANS.

4. ALL BEARINGS ARE BASED ON STATE PLANE BEARINGS, WEST ZONE.



STATE OF MISSOURI
ROBERT B. GREEN
NUMBER PE-25339
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED SEALED AND DATED ELECTRONICALLY.

DATE PREPARED 3/3/2025
ROUTE VAR. | STATE MO
DISTRICT SW | SHEET NO. 6
COUNTY BARTON/DADE
JOB NO. J7S3531
CONTRACT ID.
PROJECT NO.
BRIDGE NO.

DESCRIPTION	DATE

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

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

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PHONE 573-634-3181
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GENERAL NOTE

1. RIGHT OF WAY LIMITS FOR THIS PROJECT EXTEND FROM STA. 4+00.00 US 60 TO STA. 8+50.00 ROUTE C. A DISTANCE OF 0.085 MILES.
2. ANY WORK INDICATED ON THE PLANS THAT EXTENDS BEYOND THE PROJECT LIMITS IS CONSIDERED INCIDENTAL TO AND A PART OF THE CONSTRUCTION OF THIS PROJECT.
3. ALL UTILITIES SHALL NOT BE DISTURBED DURING CONSTRUCTION UNLESS OTHERWISE NOTED ON THE PLANS.
4. ALL SIDEWALK AND RAMPS SHALL BE CONSTRUCTED 5 FEET WIDE UNLESS OTHERWISE NOTED IN THE PLANS.
5. ALL BEARINGS ARE BASED ON STATE PLANE BEARINGS, WEST ZONE.

CERTIFIED LAND CORNER

FOUND IRON BAR IN SOUTH QUARTER CORNER OF SECTION 24 T33N R31N IS LOCATED 855.39' N88°05'03"W OF STA. 4+00.00 CENTERLINE OF ROUTE C DOUCUMENT NUMBER 600-22961 FOUND BY C.M. WATTENBARGER

PUGH, CARTER AND JILL
NO ACQUISITION

SE 1/4 SW 1/4
S24 T33N R31W

SCHEETZ, DALE W AND LORETTA L
NO ACQUISITION

(10) VENABLE, MATTHEW A AND ELISABETH
818 SF. TEMP. CONST. ESM'T
0.51 AC. REMAINING

(1) W11-2 AHEAD W16-9P — INSTALL SIGN 5+44
(2) W11-2 W16-7P — INSTALL SIGN 7+44
(3) W11-2 W16-7P — INSTALL SIGN 7+56
(4) W11-2 AHEAD W16-9P — INSTALL SIGN APPROX. 200' BEFORE CROSSING

STA. 4+16.20 LT
8" PCC PE
10' WIDE
UIP PIPE
EX. +0.93% SLOPE

STA. 6+96.65 LT
8" PCC PE
42' WIDE
EX. +2.79% SLOPE

EXIST. R.R. R/W

EXIST. CITY R/W

+96.45 30.00'
+96.45 35.00'
+59.96 35.00'
+59.96 30.00'

EXIST. R/W

REMOVE EXIST. SIDEWALK

AGGREGATE SURFACING

TEMP. CONST. ESM'T

DND

(4) INSTALL SIGN ROUGHLY 200' BEFORE CROSSING

UIP PIPE

UIP

REMOVE SIDEWALK AND PIPE

UIP GRAVEL ENTRANCE

AGGREGATE SURFACING

INSTALL CROSSING

(3) INSTALL SIGN TYPE 1-C RAMP

POT STA 7+61.86

UIP ADA PATH

REMOVE LANDSCAPING

(1) INSTALL SIGN

(2) INSTALL SIGN

℄ ROUTE C
S88°05'03"E

SEC. 24 T33N R31W
SEC. 25 T33N R31W

S85°26'03"E

60' R/W

BEGIN PROJECT AT STA. 4+00.00 ℄ OF HWY C
FED. IMPROVEMENTS BEGIN AT A POINT LOCATED
28.60' SOUTH AND 854.91' EAST OF
A FOUND IRON BAR SECTION 24 T33N R31W

UIP STEPS

EXIST. R/W

UIP

END PROJECT AT STA. 8+50.00 ℄ OF HWY C
FED. IMPROVEMENTS BEGIN AT A POINT LOCATED
9.48' NORTH AND 405.47' WEST OF
FOUND IRON BAR SECTION 24 T33N R31W

CERTIFIED LAND CORNER

FOUND IRON BAR IN SOUTH QUARTER CORNER OF SECTION 24 T33N R31N IS LOCATED 405.58' S88°39'36"E OF STA. 8+50.00 CENTERLINE OF ROUTE C DOUCUMENT NUMBER 600-22961 FOUND BY C.M. WATTENBARGER

+79.96 30.00'
+39.96 30.00'
+49.96 30.00'
+49.96 35.00'
+59.96 35.00'
+59.96 30.00'

EXIST. COUNTY R/W
EXIST. COUNTY R/W
EXIST. CITY R/W
EXIST. R.R. R/W

NE 3RD LN
NE 4TH LN

IRWIN COMMUNITY CHURCH
NO ACQUISITION

NE 1/4 NW 1/4
S25 T33N R31W

(11) PENNELL, JASON & MARIE
50 SF TEMP. CONST. ESM'T
0.55 AC REMAINING

SIDEWALK
CURB RAMP
APPROACH
TRUNCATED DOMES
REMOVALS
CONCRETE MEDIAN STRIP

(L) LANDING
(R) RAMP
(S) SIDEWALK
(T) TRANSITION

SCALE
0 20 40 60

PLAN SHEET
IRWIN - ROUTE C
SHEET 1 OF 1

STATE OF MISSOURI
ROBERT B. GREEN
NUMBER PE-25339
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED SEALED AND DATED ELECTRONICALLY.

DATE PREPARED 3/3/2025

ROUTE	STATE
VAR.	MO
DISTRICT	SHEET NO.
SW	7

COUNTY: BARTON/DADE
JOB NO.: J7S3531
CONTRACT ID.:
PROJECT NO.:
BRIDGE NO.:

DATE	DESCRIPTION

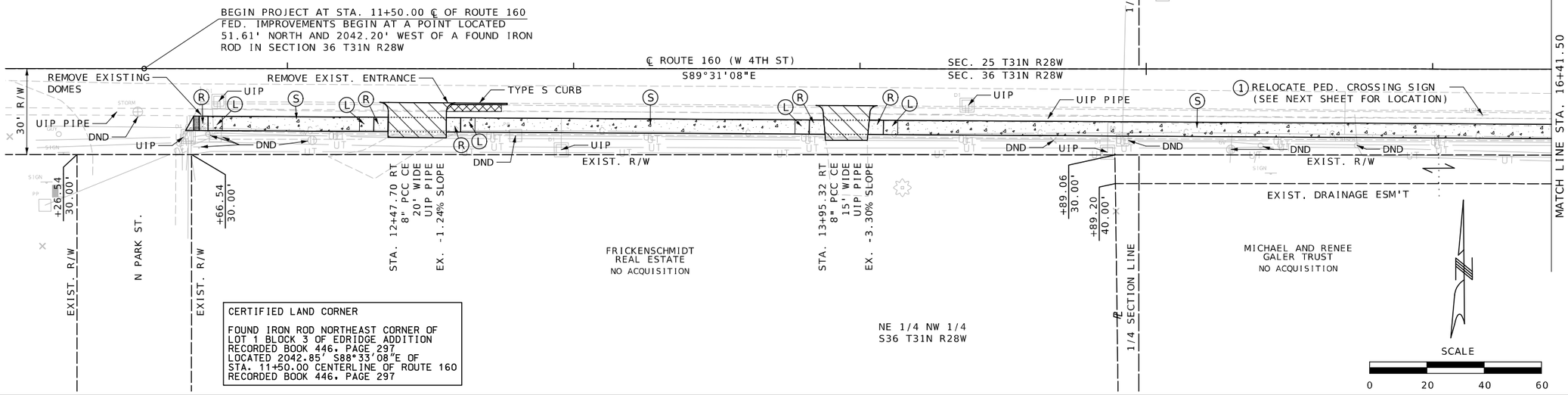
IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

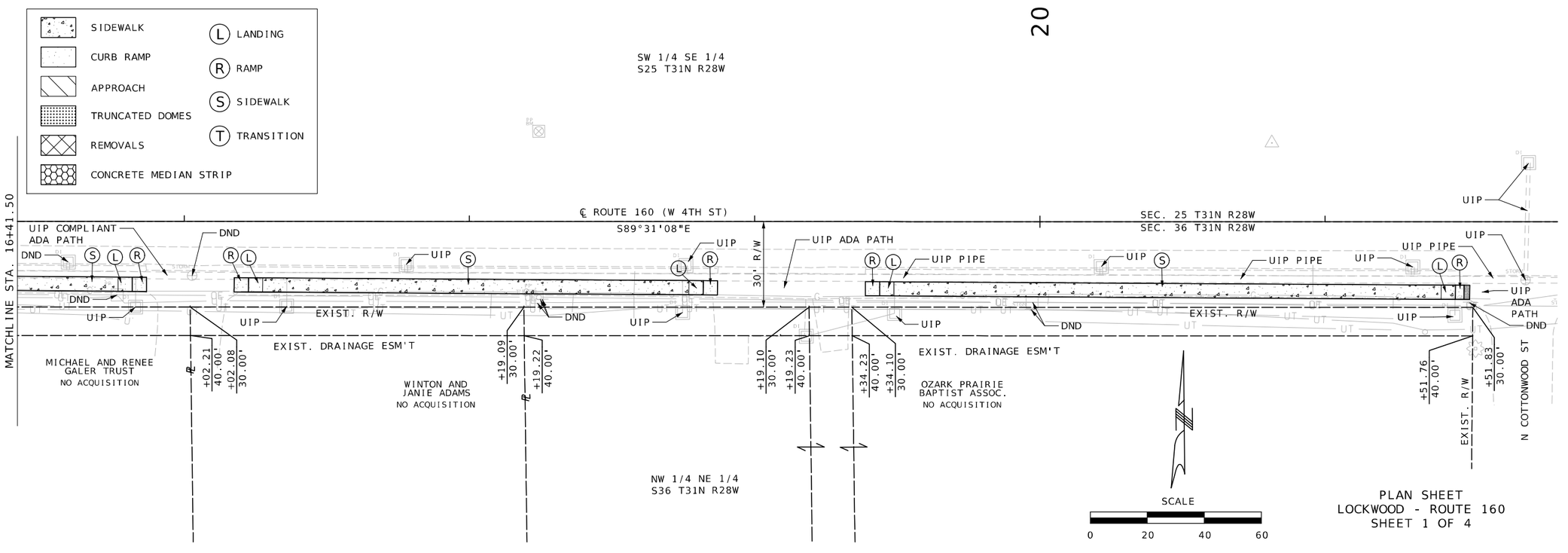
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

Bartlett & West
601 MONROE ST. SUITE 201 - JEFFERSON CITY, MO 65101
PHONE 573-634-3181
CERTIFICATE OF AUTHORITY NO. 000167 - ENGINEERING
WWW.BARTLETTWEST.COM

GENERAL NOTE

1. RIGHT OF WAY LIMITS FOR THIS PROJECT EXTEND FROM STA. 11+50.00 ROUTE 126 TO STA. 4+25.00 ROUTE 126, A DISTANCE OF 0.689 MILES.
2. ANY WORK INDICATED ON THE PLANS THAT EXTENDS BEYOND THE PROJECT LIMITS IS CONSIDERED INCIDENTAL TO AND A PART OF THE CONSTRUCTION OF THIS PROJECT.
3. ALL UTILITIES SHALL NOT BE DISTURBED DURING CONSTRUCTION UNLESS OTHERWISE NOTED ON THE PLANS.
4. ALL SIDEWALK AND RAMPS SHALL BE CONSTRUCTED 5 FEET WIDE UNLESS OTHERWISE NOTED IN THE PLANS.
5. ALL BEARINGS ARE BASED ON STATE PLANE BEARINGS, WEST ZONE.





PLAN SHEET
LOCKWOOD - ROUTE 160
SHEET 1 OF 4

STATE OF MISSOURI
ROBERT B. GREEN
NUMBER PE-25339
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

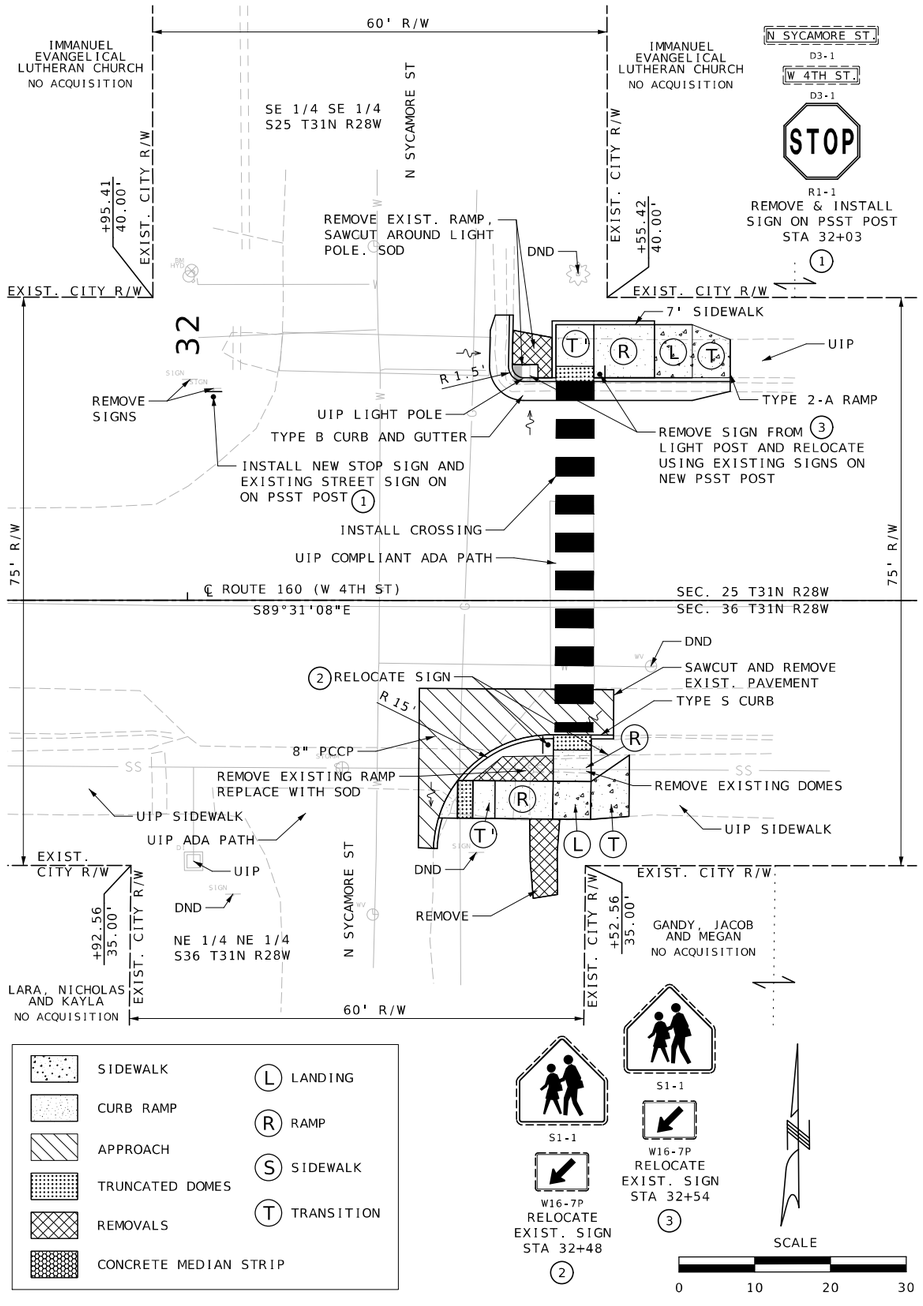
DATE PREPARED 3/3/2025
ROUTE VAR. | STATE MO
DISTRICT SW | SHEET NO. 8
COUNTY BARTON/DADE
JOB NO. J7S3531
CONTRACT ID.
PROJECT NO.
BRIDGE NO.

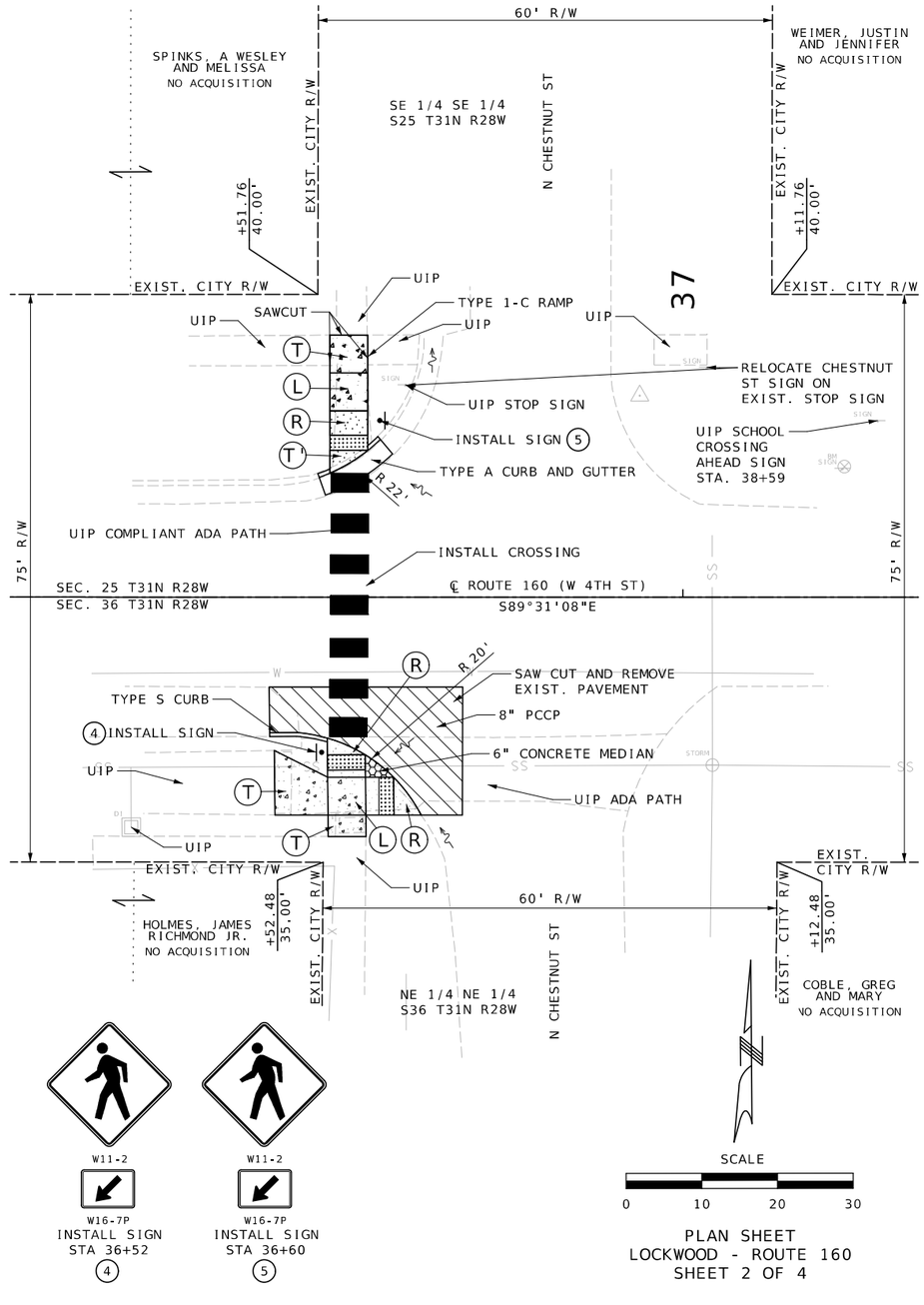
DESCRIPTION | DATE

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

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

Bartlett & West
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PHONE 573-634-3181
CERTIFICATE OF AUTHORITY NO. 000167 - ENGINEERING
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PLAN SHEET
LOCKWOOD - ROUTE 160
SHEET 2 OF 4

STATE OF MISSOURI
ROBERT B. GREEN
NUMBER PE-25339
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED
3/3/2025

ROUTE	STATE
VAR.	MO
DISTRICT	SHEET NO.
SW	9

COUNTY
BARTON/DADE

JOB NO.
J7S3531

CONTRACT ID.

PROJECT NO.

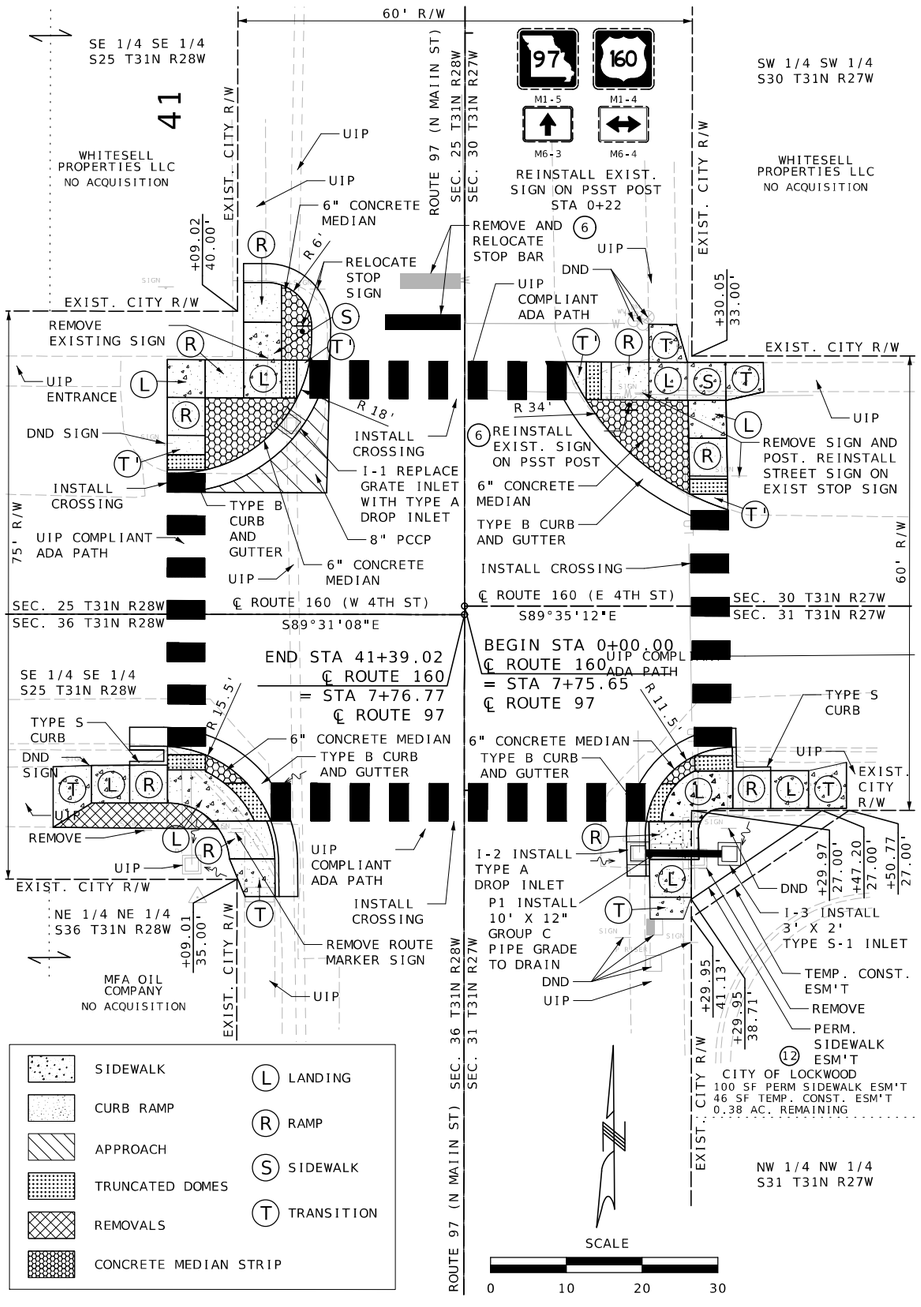
BRIDGE NO.

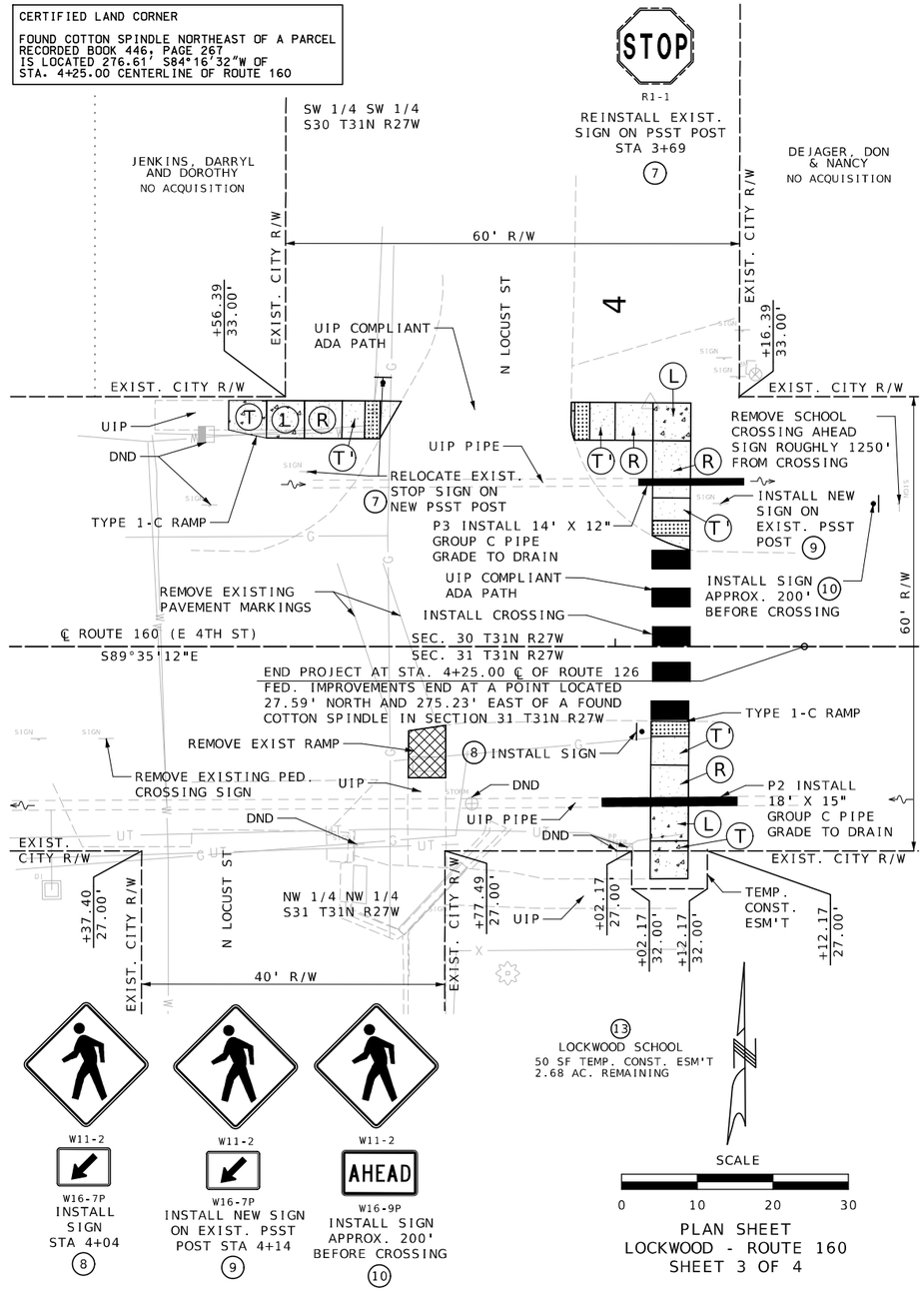
DESCRIPTION	DATE

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

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

Bartlett & West
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CERTIFICATE OF AUTHORITY NO. 000167 - ENGINEERING
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PLAN SHEET
LOCKWOOD - ROUTE 160
SHEET 3 OF 4

STATE OF MISSOURI
ROBERT B. GREEN
NUMBER PE-25339
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED	
4/21/2025	
ROUTE	STATE
VAR.	MO
DISTRICT	SHEET NO.
SW	10
COUNTY	
BARTON/DADE	
JOB NO.	
J7S3531	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

DATE	DESCRIPTION

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

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

Bartlett & West
601 MONROE ST. SUITE 201 - JEFFERSON CITY, MO 65101
PHONE 573-634-3181
CERTIFICATE OF AUTHORITY NO. 000167 - ENGINEERING
WWW.BARTLETTWEST.COM

GENERAL NOTE

1. RIGHT OF WAY LIMITS FOR THIS PROJECT EXTEND FROM STA. 3+25.00 ROUTE 97 TO STA. 12+00.00 ROUTE 97. A DISTANCE OF 0.168 MILES.
2. ANY WORK INDICATED ON THE PLANS THAT EXTENDS BEYOND THE PROJECT LIMITS IS CONSIDERED INCIDENTAL TO AND A PART OF THE CONSTRUCTION OF THIS PROJECT.
3. ALL UTILITIES SHALL NOT BE DISTURBED DURING CONSTRUCTION UNLESS OTHERWISE NOTED ON THE PLANS.
4. ALL SIDEWALK AND RAMPS SHALL BE CONSTRUCTED 5 FEET WIDE UNLESS OTHERWISE NOTED IN THE PLANS.
5. ALL BEARINGS ARE BASED ON STATE PLANE BEARINGS, WEST ZONE.



INSTALL SIGN ROUGHLY 200' BEFORE CROSSING (11)



INSTALL SIGN STA 3+49 (12)

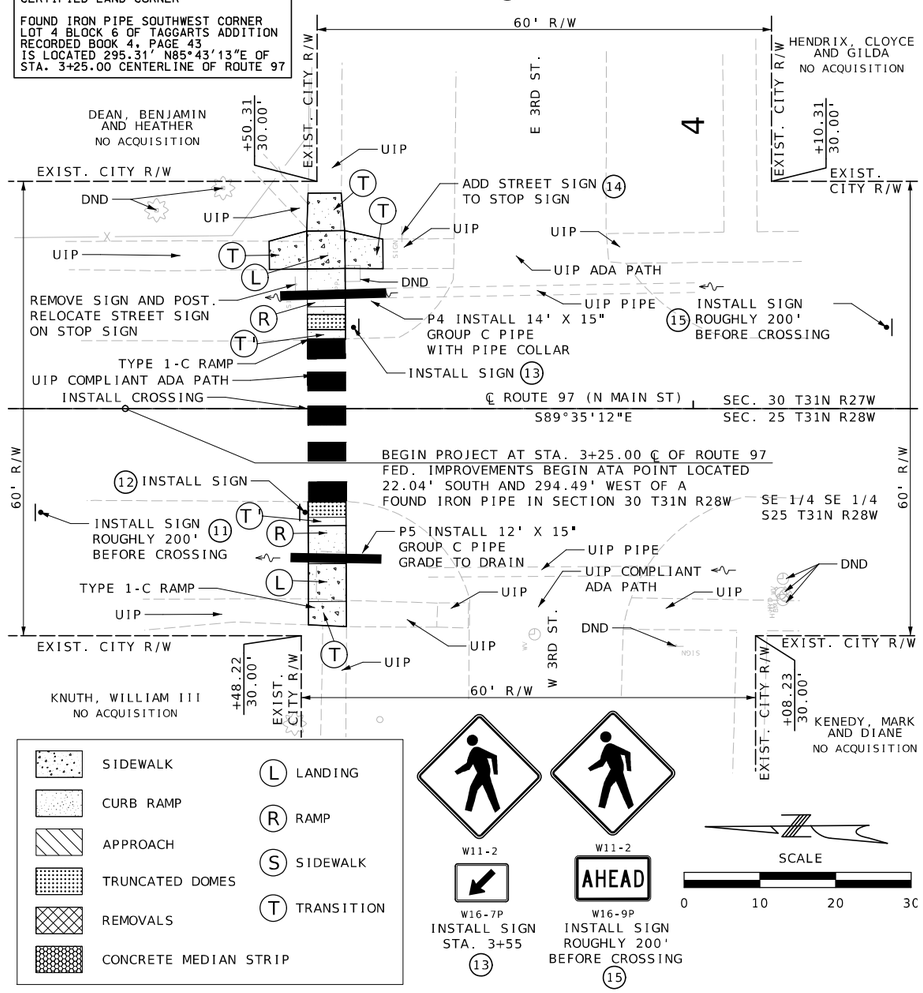


REINSTALL EXIST. SIGN ON PSST POST STA 3+62 (14)

SW 1/4 SW 1/4
S30 T31N R27W

CERTIFIED LAND CORNER

FOUND IRON PIPE SOUTHWEST CORNER LOT 4 BLOCK 6 OF TAGGARTS ADDITION RECORDED BOOK 4, PAGE 43 IS LOCATED 295.31' N85°43'13"E OF STA. 3+25.00 CENTERLINE OF ROUTE 97

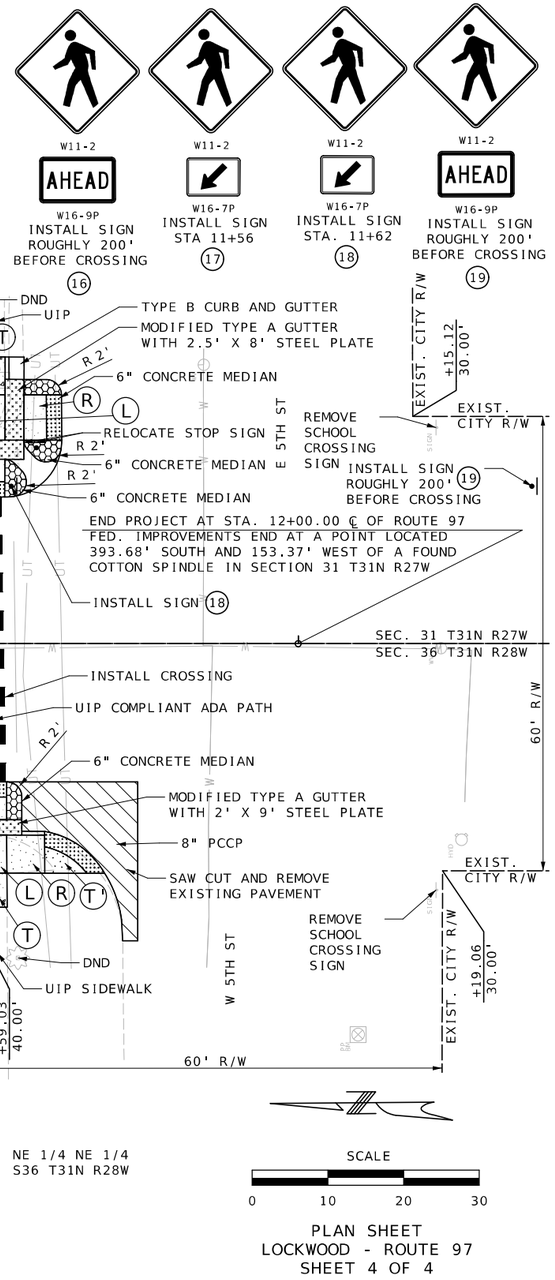


INSTALL SIGN STA. 3+55 (13)

INSTALL SIGN ROUGHLY 200' BEFORE CROSSING (15)

CERTIFIED LAND CORNER

FOUND COTTON SPINDLE NORTHEAST CORNER PARCEL RECORDED BOOK 466, PAGE 267 IS LOCATED 422.50' N21°17'04"E OF STA. 12+00.00 CENTERLINE OF ROUTE 97



INSTALL SIGN ROUGHLY 200' BEFORE CROSSING (16)

INSTALL SIGN STA 11+56 (17)

INSTALL SIGN STA. 11+62 (18)

INSTALL SIGN ROUGHLY 200' BEFORE CROSSING (19)

(15)
HENDRIX, CLOYCE AND GLINDA
30 PERM. SIDEWALK ESM'T
28 SF TEMP. CONST. ESM'T
0.23 AC. REMAINING

PLAN SHEET
LOCKWOOD - ROUTE 97
SHEET 4 OF 4

STATE OF MISSOURI
ROBERT B. GREEN
NUMBER PE-25339
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

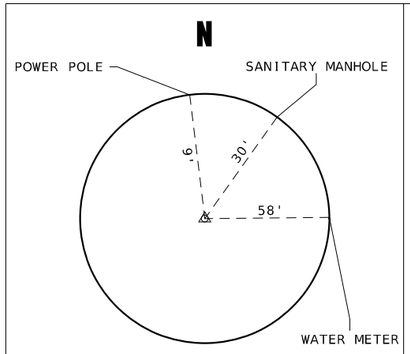
DATE PREPARED: 3/3/2025
ROUTE: VAR. | STATE: MO
DISTRICT: SW | SHEET NO.: 11
COUNTY: BARTON/DADE
JOB NO.: J7S3531
CONTRACT ID.:
PROJECT NO.:
BRIDGE NO.:

DESCRIPTION | DATE

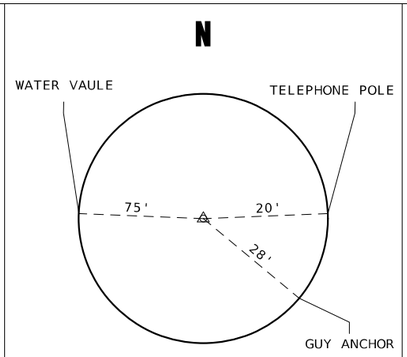
IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

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

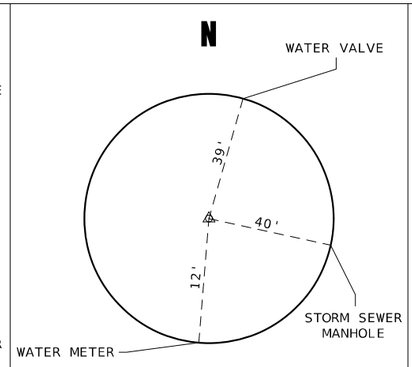
Bartlett & West
601 MONROE ST. SUITE 201 - JEFFERSON CITY, MO 65101
PHONE 573-634-3181
CERTIFICATE OF AUTHORITY NO. 000167 - ENGINEERING
WWW.BARTLETTWEST.COM



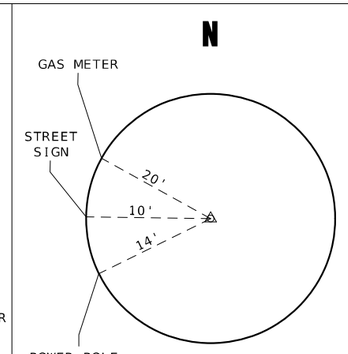
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E: 2904717.826
ELELV. 1033.858



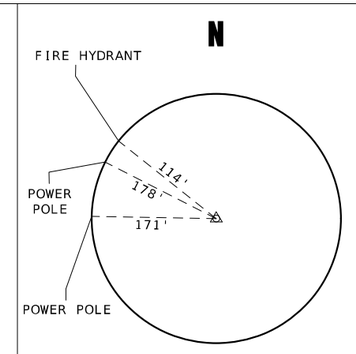
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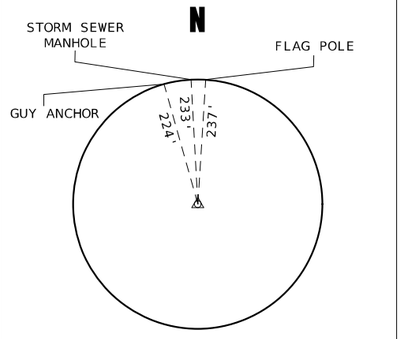
RP# 302 - 74 MAG SPIKE
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E: 2906857.815
ELEV. 1058.191



RP# 303 - 74 IR
N: 446798.610
E: 2907582.587
ELEV. 1063.593



RP# 304 - 74
N: 446711.716
E: 2907728.624
ELEV. 1063.890



RP# 305 - 74
N: 446517.826
E: 2906909.083
ELEV. 1060.235

MISSOURI STATE PLANE COORDINATES WEST ZONE, NAD 1983
COORDINATES LISTED ARE STATE PLANE (GRID) PROJECT COORDINATES - U.S. SURVEY FEET
STATE PLANE (GRID) COORDINATES X 1.00009141 = MODIFIED GROUND COORDINATES

GOLDEN CITY
REFERENCE POINTS
SHEET 1 OF 4

STATE OF MISSOURI
ROBERT B. GREEN
NUMBER PE-25339
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED SEALED AND DATED ELECTRONICALLY.

DATE PREPARED
3/3/2025

ROUTE	STATE
VAR.	MO
DISTRICT	SHEET NO.
SW	12

COUNTY
BARTON/DADE

JOB NO.
J7S3531

CONTRACT ID.

PROJECT NO.

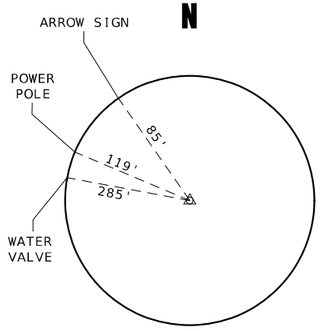
BRIDGE NO.

DESCRIPTION	DATE

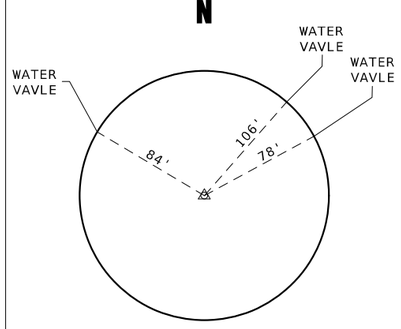
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
MoDOT
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

Bartlett & West
601 MONROE ST. SUITE 201 - JEFFERSON CITY, MO 65101
PHONE 573-634-3181
CERTIFICATE OF AUTHORITY NO. 000167 - ENGINEERING
WWW.BARTLETTWEST.COM

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.



RP# 300 - 74 IR
N: 491578.228
E:2818691.892
ELEV. 990.232



RP# 301 - 74 IR
N: 491596.240
E: 2818288.000
ELEV. 990.159

MISSOURI STATE PLANE COORDINATES WEST ZONE, NAD 1983
COORDINATES LISTED ARE STATE PLANE (GRID) PROJECT COORDINATES - U.S. SURVEY FEET
STATE PLANE (GRID) COORDINATES X 1.00009141 = MODIFIED GROUND COORDINATES

IANTHA
REFERENCE POINTS
SHEET 2 OF 4

STATE OF MISSOURI
ROBERT B. GREEN
NUMBER PE-25339
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED
3/3/2025

ROUTE	STATE
VAR.	MO
DISTRICT	SHEET NO.
SW	13

COUNTY
BARTON/DADE

JOB NO.
J7S3531

CONTRACT ID.

PROJECT NO.

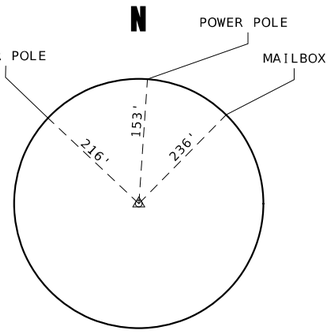
BRIDGE NO.

DESCRIPTION	DATE

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

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

Bartlett & West
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PHONE 573-634-3181
CERTIFICATE OF AUTHORITY NO. 000167 - ENGINEERING
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RP# 525 - 73 IR
N: 517561.170
E: 2850791.168
ELEV. 969.930

MISSOURI STATE PLANE COORDINATES WEST ZONE, NAD 1983
COORDINATES LISTED ARE STATE PLANE (GRID) PROJECT COORDINATES - U.S. SURVEY FEET
STATE PLANE (GRID) COORDINATES X 1.00009141 = MODIFIED GROUND COORDINATES

IRWIN
REFERENCE POINTS
SHEET 3 OF 4

STATE OF MISSOURI
ROBERT B. GREEN
NUMBER PE-2539
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED SEALED AND DATED ELECTRONICALLY.

DATE PREPARED
3/3/2025

ROUTE	STATE
VAR.	MO
DISTRICT	SHEET NO.
SW	14

COUNTY
BARTON/DADE

JOB NO.
J7S3531

CONTRACT ID.

PROJECT NO.

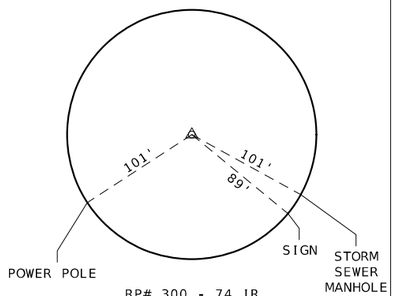
BRIDGE NO.

DESCRIPTION	DATE

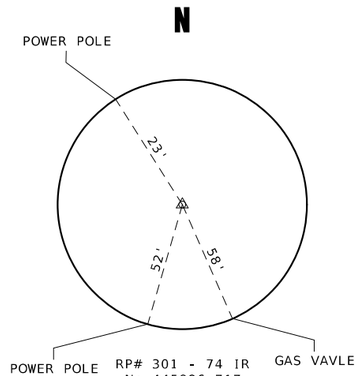
IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

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

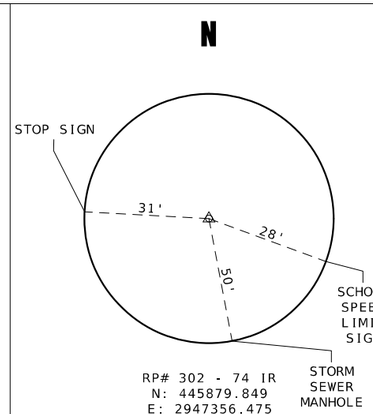
Bartlett & West
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PHONE 573-634-3181
CERTIFICATE OF AUTHORITY NO. 000167 - ENGINEERING
WWW.BARTLETTWEST.COM



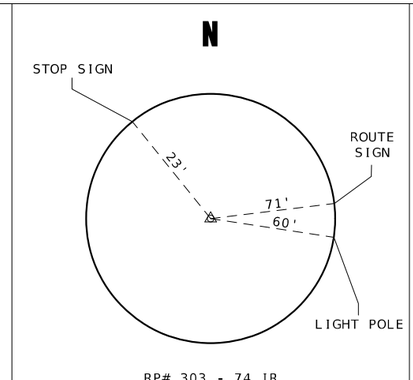
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E: 2945743.596
ELEV. 1084.328



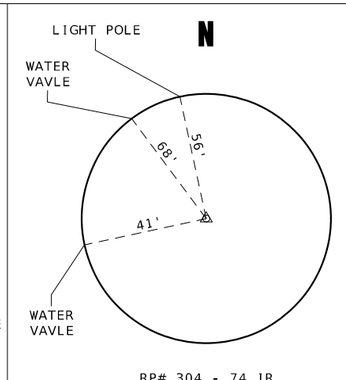
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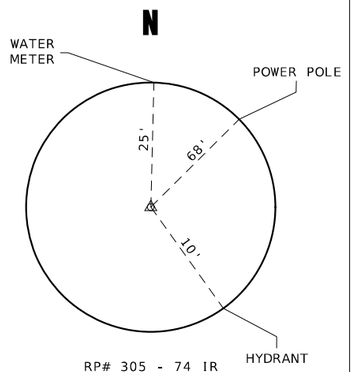
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ELEV. 1086.540



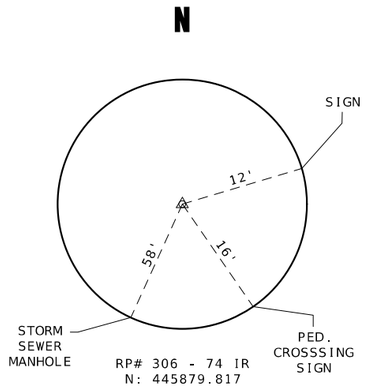
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E: 2947765.425
ELEV. 1087.323



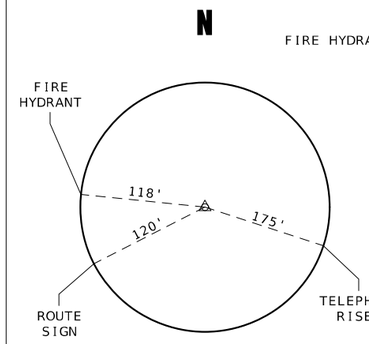
RP# 304 - 74 IR
N: 445416.180
E: 2947836.963
ELEV. 1086.936



RP# 305 - 74 IR
N: 446222.932
E: 2947773.867
ELEV. 1084.545



RP# 306 - 74 IR
N: 445879.817
E: 2948205.821
ELEV. 1085.833



RP# 307 - 74 IRC
N: 445875.565
E: 2947942.390
ELEV. 1086.626

MISSOURI STATE PLANE COORDINATES WEST ZONE, NAD 1983
COORDINATES LISTED ARE STATE PLANE (GRID) PROJECT COORDINATES - U.S. SURVEY FEET
STATE PLANE (GRID) COORDINATES X 1.00009141 = MODIFIED GROUND COORDINATES

LOCKWOOD
REFERENCE POINTS
SHEET 4 OF 4

STATE OF MISSOURI
ROBERT B. GREEN
NUMBER PE-25339
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED SEALED AND DATED ELECTRONICALLY.

DATE PREPARED: 3/3/2025
ROUTE: VAR. | STATE: MO
DISTRICT: SW | SHEET NO.: 15
COUNTY: BARTON/DADE
JOB NO.: J7S3531
CONTRACT ID.:
PROJECT NO.:
BRIDGE NO.:

DESCRIPTION | DATE

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

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

Bartlett & West
601 MONROE ST. SUITE 201 - JEFFERSON CITY, MO 65101
PHONE 573-634-3181
CERTIFICATE OF AUTHORITY NO. 000167 - ENGINEERING
WWW.BARTLETTWEST.COM

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

PROJECT COORDINATE INFORMATION

COORDINATE SYSTEM	MISSOURI STATE PLANE, WEST ZONE
HORIZONTAL DATUM	NAD83
VERTICAL DATUM	NAVD88
GEOID MODEL	GEOID 18
ELEVATIONS DETERMINED BY	BARTLETT & WEST RAN OPUS SOLUTION FOR CONTROL POINT 100, AND HELD POINT 100 FOR HORIZONTAL AND VERTICAL CONTROL
PROJECT PROJECTION FACTOR	1.0000947

REFERENCE CONTROL INFORMATION

COORDINATE SYSTEM	MO COORDINATE SYSTEM OF 1983
CONTROL STATION	MISSOURI CORS
DESIGNATION	MODOT BUTLER CORS ARP
CORS_ID	MOBT
PID	DL6888
LATITUDE	N38°15'26.94377"
LONGITUDE	W94°23'36.05402"
NORTHING (M)	232034.141
EASTING (M)	859334.083
ZONE	WEST
PROJECT AVERAGE GRID FACTOR	0.999905309

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 _____.____ X _.________ = N _____.___
E _____.____ X _.________ = E _____.___

LINEAR UNIT CONVERSION

1 METER = 3.280833333 US SURVEY FEET (USFT)

COORDINATE POINT LISTING

SHEET NO	STATION	LOCATION	OFFSET (USFT)	MODIFIED STATE PLANE (GROUND) NORTHING (US SURVEY FT)	EASTING (US SURVEY FT)	ELEVATION (US SURVEY FT)	DESCRIPTION	GPK POINT ID
PROJECT CONTROL POINTS								
4	10+93.74	RT	27.73'	446828.538	2904717.826	1033.858'	74 IR	300
4	17+17.74	RT	25.19'	446807.715	2905341.486	1042.059'	74 IR	301
5	32+34.38	RT	25.83'	446759.010	2906857.815	1058.191'	74 MAG SPIKE	302
5	39+58.38	LT	25.98'	446798.610	2907582.587	1063.593'	74 IR	303
N/A	41+05.86	RT	58.44'	446711.716	2907728.624	1063.890'	74	304
N/A	32+89.70	RT	266.11'	446517.826	2906909.083	1060.235'	74	305
ALIGNMENTS								
N/A	2+75.00			446875.934	2904193.546		POINT OF INTERSECTION	P.I.
N/A	5+75.03			446875.673	2904200.517		POINT OF TANGENCY	P.T.
4	9+00.00			446863.505	2904525.263		BEGIN PROJECT	B.P.
4	17+68.16			446830.999	2905392.811		POINT OF TANGENCY	P.T.
4	19+71.17			446820.743	2905595.570		POINT OF TANGENCY	P.T.
N/A	21+43.45			446813.792	2905767.705		POINT OF TANGENCY	P.T.
5	32+25.64			446784.979	2906849.515		POINT OF TANGENCY	P.T.
5	40+00.00			446771.934	2907623.761		END OF PROJECT	E.P.
N/A	41+14.84			446769.999	2907738.582		POINT OF INTERSECTION	P.I.

COORDINATE POINT SHEET
GOLDEN CITY
SHEET 1 OF 4

STATE OF MISSOURI
ROBERT B. GREEN
NUMBER PE-2339
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED: 3/3/2025
ROUTE: VAR. | STATE: MO
DISTRICT: SW | SHEET NO.: 16
COUNTY: BARTON/DADE
JOB NO.: J7S3531
CONTRACT ID.:
PROJECT NO.:
BRIDGE NO.:

DESCRIPTION | DATE

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

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

Bartlett & West
601 MONROE ST. SUITE 201 - JEFFERSON CITY, MO 65101
PHONE 573-634-3181
CERTIFICATE OF AUTHORITY NO. 000167 - ENGINEERING
WWW.BARTLETTWEST.COM

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

PROJECT COORDINATE INFORMATION

COORDINATE SYSTEM	MISSOURI STATE PLANE, WEST ZONE
HORIZONTAL DATUM	NAD83
VERTICAL DATUM	NAVD88
GEOID MODEL	GEOID 18
ELEVATIONS DETERMINED BY	BARTLETT & WEST RAN OPUS SOLUTION FOR CONTROL POINT 100, AND HELD POINT 100 FOR HORIZONTAL AND VERTICAL CONTROL
PROJECT PROJECTION FACTOR	1.0000947

REFERENCE CONTROL INFORMATION

COORDINATE SYSTEM	MO COORDINATE SYSTEM OF 1983
CONTROL STATION	MISSOURI CORS
DESIGNATION	MODOT BUTLER CORS ARP
CORS_ID	MOBT
PID	DL6888
LATITUDE	N38°15'26.94377"
LONGITUDE	W94°23'36.05402"
NORTHING (M)	232034.141
EASTING (M)	859334.083
ZONE	WEST
PROJECT AVERAGE GRID FACTOR	0.999905309

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 ______.____ X _.________ = N ______.___
E _______.____ X _.________ = E _______.___

LINEAR UNIT CONVERSION

1 METER = 3.280833333 US SURVEY FEET (USFT)

COORDINATE POINT LISTING

SHEET NO	STATION	LOCATION	OFFSET (USFT)	MODIFIED STATE PLANE (GROUND) NORTHING (US SURVEY FT)	EASTING (US SURVEY FT)	ELEVATION (US SURVEY FT)	DESCRIPTION	GPK POINT ID
PROJECT CONTROL POINTS								
6	344+44.49	RT	20.42'	491578.228	2818691.892	990.232'	74 IR	300
N/A	343+63.89	RT	378.22'	491596.240	2818288.000	990.159'	74 IR	301
ALIGNMENTS								
N/A	340+00.00			492024.304	2818677.538		POINT OF INTERSECTION	P.I.
N/A	341+60.00			491864.533	2818668.991		POINT OF TANGENCY	P.T.
6	342+00.00			491724.732	2818661.512		BEGINNING OF PROJECT	B.P.
6	343+41.34			491683.450	2818659.303		POINT OF CURVATURE	P.C.
6	344+00.00			491627.284	2818673.039		END OF PROJECT	E.P.
6	0+00.00			491593.407	2818706.003		POINT OF TANGENCY	P.T.
6	0+23.84			491580.494	2818726.048		POINT OF CURVATURE	P.C.
N/A	1+13.26			491504.497	2818764.894		POINT OF TANGENCY	P.T.
N/A	5+51.88			491066.501	2818741.463		POINT OF INTERSECTION	P.I.

COORDINATE POINT SHEET
IANTHA
SHEET 2 OF 4

STATE OF MISSOURI
ROBERT B. GREEN
NUMBER PE-2539
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED SEALED AND DATED ELECTRONICALLY.

DATE PREPARED 3/3/2025
ROUTE VAR. | STATE MO
DISTRICT SW | SHEET NO. 17
COUNTY BARTON/DADE
JOB NO. J7S3531
CONTRACT ID.
PROJECT NO.
BRIDGE NO.

DESCRIPTION | DATE

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

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

Bartlett & West
601 MONROE ST. SUITE 201 - JEFFERSON CITY, MO 65101
PHONE 573-634-3181
CERTIFICATE OF AUTHORITY NO. 000167 - ENGINEERING
WWW.BARTLETTWEST.COM

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

PROJECT COORDINATE INFORMATION

COORDINATE SYSTEM	MISSOURI STATE PLANE, WEST ZONE
HORIZONTAL DATUM	NAD83
VERTICAL DATUM	NAVD88
GEOID MODEL	GEOID 18
ELEVATIONS DETERMINED BY	BARTLETT & WEST RAN OPUS SOLUTION FOR CONTROL POINT 100, AND HELD POINT 100 FOR HORIZONTAL AND VERTICAL CONTROL
PROJECT PROJECTION FACTOR	1.0000947

REFERENCE CONTROL INFORMATION

COORDINATE SYSTEM	MO COORDINATE SYSTEM OF 1983
CONTROL STATION	MISSOURI CORS
DESIGNATION	MODOT BUTLER CORS ARP
CORS_ID	MOBT
PID	DL6888
LATITUDE	N38°15'26.94377"
LONGITUDE	W94°23'36.05402"
NORTHING (M)	232034.141
EASTING (M)	859334.083
ZONE	WEST
PROJECT AVERAGE GRID FACTOR	0.999905309

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 _____.____ X _.________ = N _____.___
E _____.____ X _.________ = E _____.___

LINEAR UNIT CONVERSION

1 METER = 3.280833333 US SURVEY FEET (USFT)

COORDINATE POINT LISTING

SHEET NO	STATION	LOCATION	OFFSET (USFT)	MODIFIED STATE PLANE (GROUND) NORTHING (US SURVEY FT)	EASTING (US SURVEY FT)	ELEVATION (US SURVEY FT)	DESCRIPTION	GPK POINT ID
PROJECT CONTROL POINTS								
N/A	5+81.06	RT	180.87	517561.170	2850791.168	969.930	73 IR	525
ALIGNMENTS								
N/A	0+00.00			517761.362	2850216.474		POINT OF INTERSECTION	P.I.
11	4+00.00			517747.989	2850616.251		BEGINNING OF PROJECT	B.P.
11	7+61.86			517735.894	2850977.833		POINT OF TANGENCY	P.T.
11	8+50.00			517728.878	2851065.694		END OF PROJECT	E.P.
N/A	9+88.76			517717.832	2851204.013		POINT OF INTERSECTION	P.P.

COORDINATE POINT SHEET
IRWIN
SHEET 3 OF 4

STATE OF MISSOURI
ROBERT B. GREEN
NUMBER PE-25339
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED 3/3/2025
ROUTE VAR. | STATE MO
DISTRICT SW | SHEET NO. 18
COUNTY BARTON/DADE
JOB NO. J7S3531
CONTRACT ID.
PROJECT NO.
BRIDGE NO.

DESCRIPTION | DATE

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

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

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PROJECT COORDINATE INFORMATION

COORDINATE SYSTEM	MISSOURI STATE PLANE, WEST ZONE
HORIZONTAL DATUM	NAD83
VERTICAL DATUM	NAVD88
GEOID MODEL	GEOID 18
ELEVATIONS DETERMINED BY	BARTLETT & WEST RAN OPUS SOLUTION FOR CONTROL POINT 100, AND HELD POINT 100 FOR HORIZONTAL AND VERTICAL CONTROL
PROJECT PROJECTION FACTOR	1.0000947

REFERENCE CONTROL INFORMATION

COORDINATE SYSTEM	MO COORDINATE SYSTEM OF 1983
CONTROL STATION	MISSOURI CORS
DESIGNATION	MODOT BUTLER CORS ARP
CORS_ID	MOBT
PID	DL6888
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LONGITUDE	W94°23'36.05402"
NORTHING (M)	232034.141
EASTING (M)	859334.083
ZONE	WEST
PROJECT AVERAGE GRID FACTOR	0.999905309

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 _____.____ X _.________ = N _____.___
E _____.____ X _.________ = E _____.___

LINEAR UNIT CONVERSION

1 METER = 3.280833333 US SURVEY FEET (USFT)

COORDINATE POINT LISTING

SHEET NO	STATION	LOCATION	OFFSET (US FT)	MODIFIED STATE PLANE (GROUND) NORTHING (US SURVEY FT)	EASTING (US SURVEY FT)	ELEVATION (US SURVEY FT)	DESCRIPTION	GPK POINT ID
PROJECT CONTROL POINTS								
8	15+05.66	LT	25.13	445896.717	2945167.890	1083.849	74 IR	301
8	20+81.37	LT	27.60	445894.356	2945743.596	1084.328	74 IR	300
9	36+94.31	LT	26.64	445879.849	2947356.475	1086.560	74 IR	302
10	41+03.81	RT	37.36	445812.410	2947765.425	1087.323	74 IR	303
11	0+39.14	RT	434.139	445416.180	2947836.963	1086.936	74 IR	304
11	41+08.81	LT	373.218	446222.932	2947773.867	1084.545	74 IR	305
10	4+04.65	LT	32.145	445879.817	2948205.821	1085.833	74 IRC	306
ALIGNMENTS								
ROUTE 160 - W 4TH ST.								
N/A	0+00.00			445884.234	2943662.070		POINT OF INTERSECTION	P.I.
N/A	5+00.00			445880.035	2944162.052		POINT OF TANGENCY	P.T.
8	11+50.00			445874.576	2944812.029		BEGINNING OF PROJECT	B.P.
10	41+39.02			445849.473	2947800.941		POINT OF INTERSECTION	P.I.
ROUTE 160 - E 4TH ST.								
10	0+00.00			445850.591	2947800.950		POINT OF INTERSECTION	P.I.
10	4+25.00			445847.525	2948225.939		END OF PROJECT	E.P.
N/A	13+21.17			445841.061	2949122.013		POINT OF TANGENCY	P.T.
N/A	15+69.13			445839.272	2949369.969		POINT OF INTERSECTION	P.I.
ROUTE 97 - N MAIN ST.								
N/A	0+00.00			446626.212	2947807.555		POINT OF INTERSECTION	P.I.
11	3+25.00			446301.225	2947804.787		BEGINNING OF PROJECT	B.P.
11	12+00.00			445426.256	2947797.338		END OF PROJECT	E.P.
N/A	18+29.73			444796.545	2947791.976		POINT OF TANGENCY	P.T.
N/A	20+75.80			444660.485	2947789.881		POINT OF INTERSECTION	P.I.

COORDINATE POINT SHEET
LOCKWOOD
SHEET 4 OF 4

STATE OF MISSOURI
ROBERT B. GREEN
NUMBER PE-25339
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

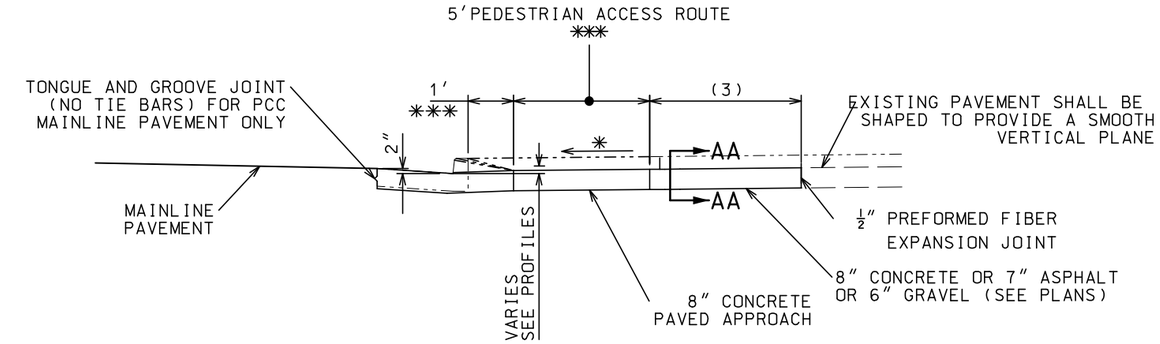
DATE PREPARED: 3/3/2025
ROUTE: VAR. | STATE: MO
DISTRICT: SW | SHEET NO.: 19
COUNTY: BARTON/DADE
JOB NO.: J7S3531
CONTRACT ID.:
PROJECT NO.:
BRIDGE NO.:

DESCRIPTION | DATE

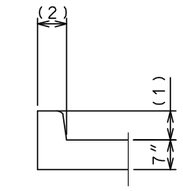
IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

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

Bartlett & West
601 MONROE ST. SUITE 201 - JEFFERSON CITY, MO 65101
PHONE 573-634-3181
CERTIFICATE OF AUTHORITY NO. 000167 - ENGINEERING
WWW.BARTLETTWEST.COM

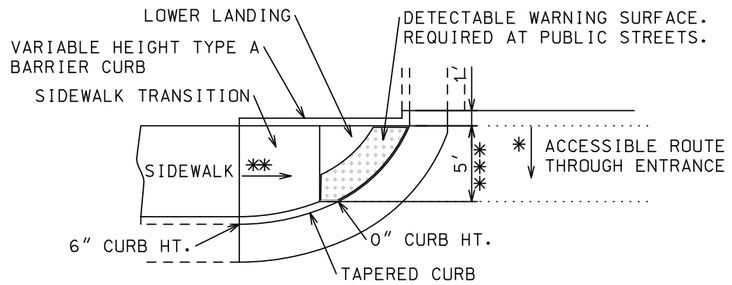


SECTION A–A

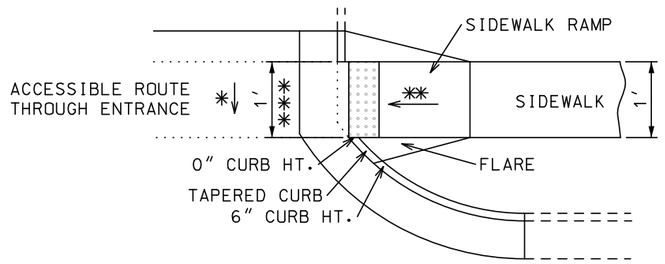


TYPE B
(BARRIER)

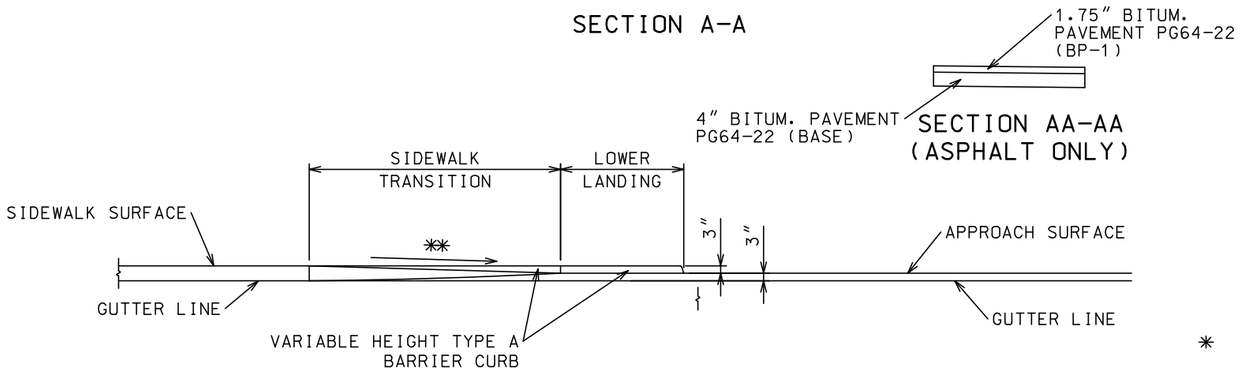
SECTION B–B



DETAIL A

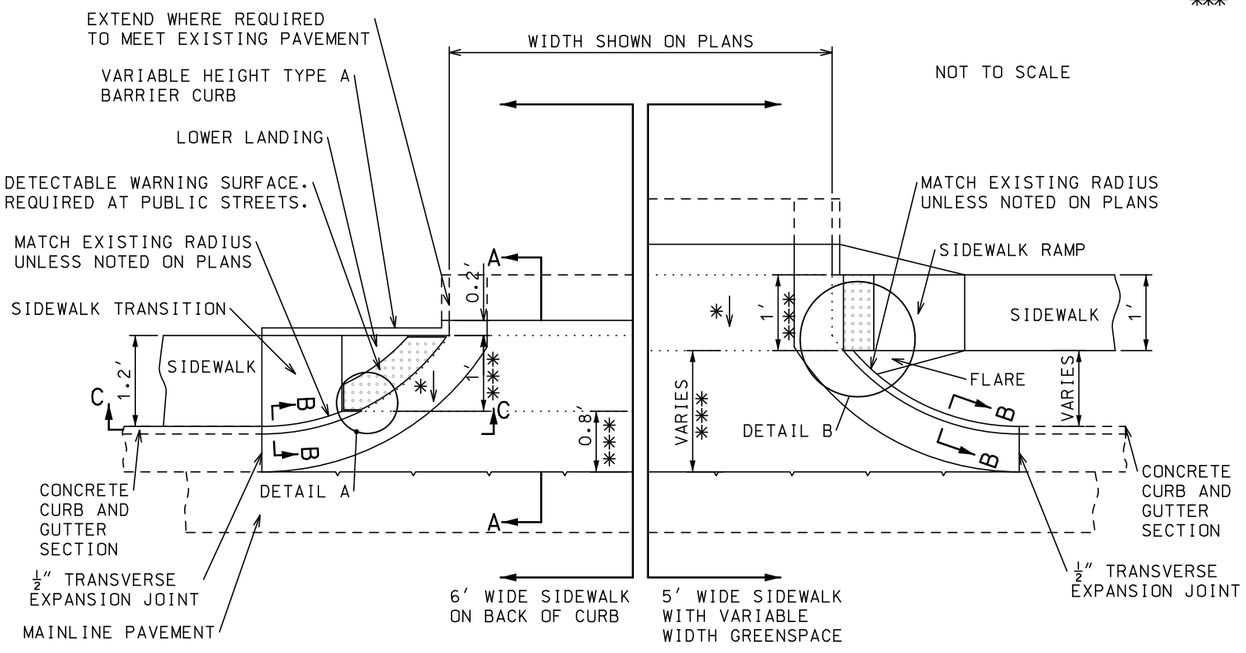


DETAIL B



SECTION AA–AA
(ASPHALT ONLY)

SECTION C–C



(SEE PLAN SHEETS FOR LOCATION OF SIDEWALK RELATIVE TO THE CURB)

PLAN OF NON-SIGNALIZED SIDE STREET, ALLEY, AND COMMERCIAL OR RESIDENTIAL APPROACHES

* THE CROSS SLOPE OF THE CONTINUOUS PEDESTRIAN ACCESS ROUTE SHALL BE 1.00% TO FACILITATE DRAINAGE (2.00% MAX.).

** SIDEWALK TRANSITION 5.00% MAXIMUM SLOPE.

*** ACCESSIBLE ROUTE THROUGH ENTRANCE. NOTE THAT THE DIMENSIONS SHOWN ON THIS SHEET ARE DESIRED. HOWEVER, EXISTING DRIVEWAYS WITH STEEPER GRADES MAY REQUIRE A 4′ WIDE PEDESTRIAN ROUTE IN ORDER TO KEEP GRADE BREAKS TO A MINIMUM. REFER TO DRIVEWAY SECTIONS FOR FINAL DIMENSIONS AT EACH DRIVEWAY.

(1) 6″ – EXCEPT WHERE VARIED TO MEET EXISTING IMPROVEMENTS.
(2) 6″ – EXCEPT WHERE VARIED TO MEET EXISTING IMPROVEMENTS.
(3) EXTEND WHERE REQUIRED TO MEET EXISTING PAVEMENT.

GENERAL NOTES:

WHERE PAVED APPROACH MEETS EXISTING CONCRETE PAVEMENT OR SIDEWALK, PLACE ½″ PREFORMED FIBER EXPANSION JOINT, CUT TO TEMPLATE, THROUGH NEW CONCRETE AND 1′ FROM JUNCTION WITH EXISTING CONCRETE, OR ALONG INSIDE EDGE OF SIDEWALK. WHERE PAVED APPROACH MEETS EXISTING BITUMINOUS CONSTRUCTION, OMIT JOINT.

SEE STANDARD PLAN 502.05 FOR TYPE AND LOCATION OF CONCRETE PAVEMENT JOINTS.

SEE STANDARD PLAN 609.00 FOR TRANSVERSE EXPANSION JOINT DETAILS.

IF SIDEWALKS ARE NOT INCLUDED IN CONSTRUCTION OF PAVED APPROACH, PLACE GROUND COVER, AS SHOWN ON PLANS, BEHIND CURB THROUGH RADIUS. GROUND COVER SHALL CONFORM TO FINISHED GRADING FOR CURB RAMP.

HAND FINISHING PERMITTED ON PAVED APPROACH.

THE APPROACH GRADE THROUGH THE LIMITS OF A SIDEWALK SHALL NOT EXCEED 2.00%.

SEE STANDARD PLAN 608.00 FOR PAVED APPROACH JOINT DETAILS.

VARIABLE HEIGHT TYPE A BARRIER CURB SHALL BE CONSTRUCTED ACCORDING TO STANDARD PLANS. PAID FOR PER SQUARE YARD ON CONCRETE CURB RAMP

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

SPECIAL SHEET
SHEET 1 OF 4

STATE OF MISSOURI
ROBERT B. GREEN
NUMBER PE-25339
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

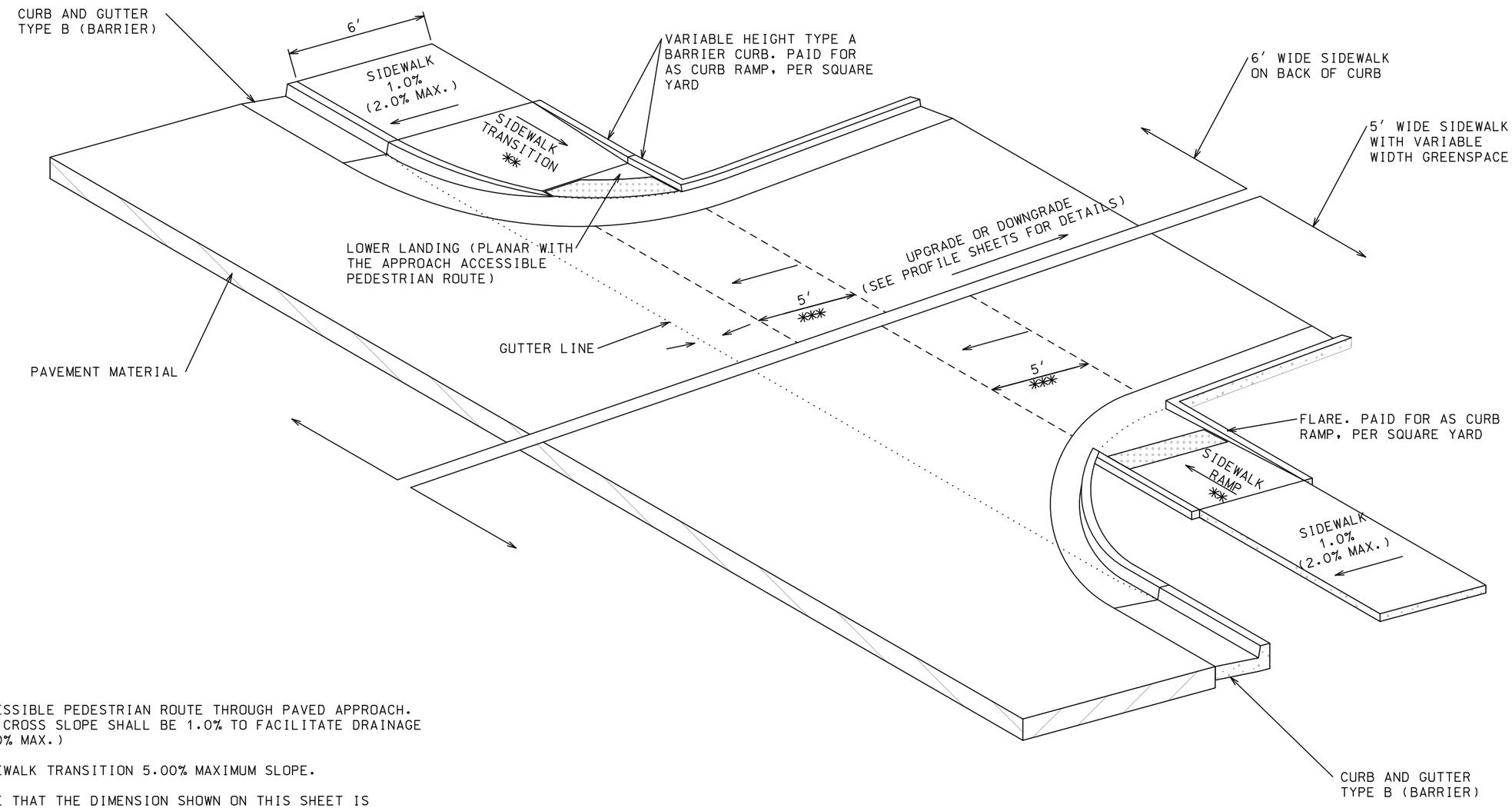
DATE PREPARED 3/3/2025
ROUTE VAR. | STATE MO
DISTRICT SW | SHEET NO. 20
COUNTY BARTON/DADE
JOB NO. J7S3531
CONTRACT ID.
PROJECT NO.
BRIDGE NO.

DESCRIPTION	DATE

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

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

Bartlett & West
601 MONROE ST. SUITE 201 - JEFFERSON CITY, MO 65101
PHONE 573-634-3181
CERTIFICATE OF AUTHORITY NO. 000167 - ENGINEERING
WWW.BARTLETTWEST.COM



* ACCESSIBLE PEDESTRIAN ROUTE THROUGH PAVED APPROACH. THE CROSS SLOPE SHALL BE 1.0% TO FACILITATE DRAINAGE (2.0% MAX.)

** SIDEWALK TRANSITION 5.00% MAXIMUM SLOPE.

*** NOTE THAT THE DIMENSION SHOWN ON THIS SHEET IS DESIRED. HOWEVER, EXISTING DRIVEWAYS WITH STEEPER GRADES MAY REQUUIRE A 4' WIDE PEDESTRIAN ROUTE IN ORDER TO KEEP GRADE BREAKS TO A MINIMUM. REFER TO DRIVEWAY SECTIONS FOR FINAL DIMENSIONS AT EACH DRIVEWAY.

DISCLAIMER
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(SEE PLAN SHEETS FOR LOCATION OF SIDEWALK RELATIVE TO THE CURB)

ISOMETRIC VIEW
NON-SIGNALIZED SIDE STREET APPROACHES

NOT TO SCALE

SPECIAL SHEET
SHEET 2 OF 4

STATE OF MISSOURI
ROBERT B. GREEN
NUMBER PE-25339
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

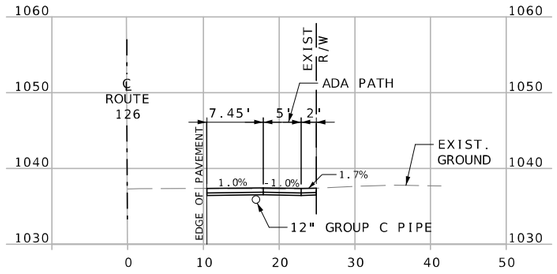
DATE PREPARED: 3/3/2025
ROUTE: VAR. | STATE: MO
DISTRICT: SW | SHEET NO.: 21
COUNTY: BARTON/DADE
JOB NO.: J7S3531
CONTRACT ID.:
PROJECT NO.:
BRIDGE NO.:

DESCRIPTION | DATE

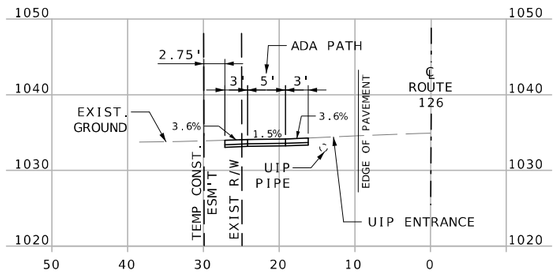
IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

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

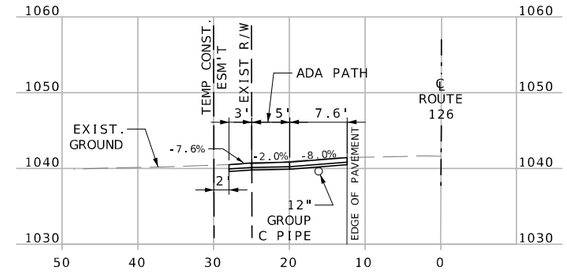
Bartlett & West
601 MONROE ST. SUITE 201 - JEFFERSON CITY, MO 65101
PHONE 573-634-3181
CERTIFICATE OF AUTHORITY NO. 000167 - ENGINEERING
WWW.BARTLETTWEST.COM



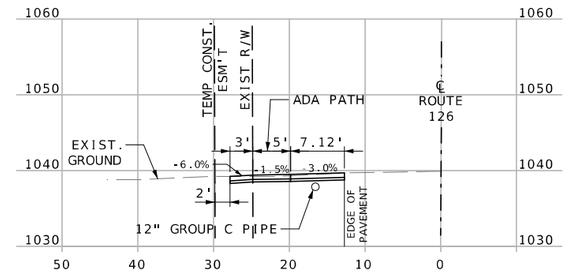
STA 12+92.21 RT
8" PCC PE
12' WIDE
P3 22' X 12" GROUP C PIPE
GOLDEN CITY, MO



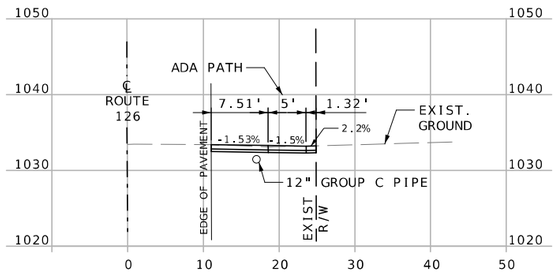
STA 11+63.12 LT
8" PCC PE
18' WIDE
UIP PIPE
GOLDEN CITY, MO



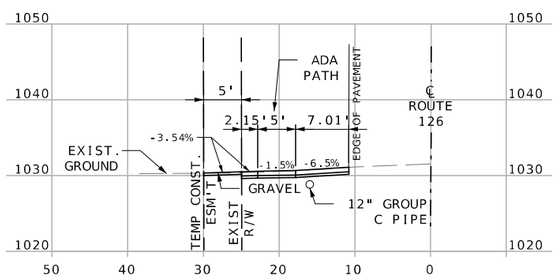
STA 16+94.28 LT
8" PCC PE
14' WIDE
P6 24' X 12" GROUPC PIPE
GOLDEN CITY, MO



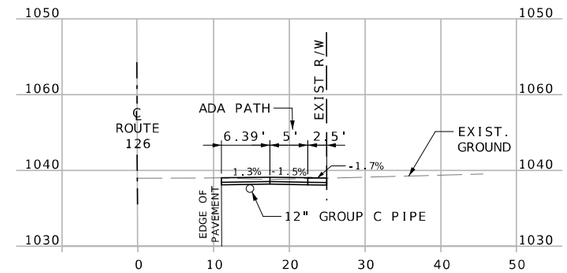
STA 14+86.66 LT
8" PCC PE
21' WIDE
P5 34' X 12" GROUP C PIPE
GOLDEN CITY, MO



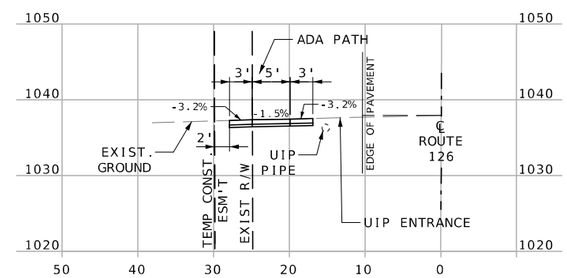
STA 10+80.42 RT
8" PCC PE
12' WIDE
P2 20' X 12" GROUP C PIPE
GOLDEN CITY, MO



STA 9+57.96 LT
8" PCC PE
15' WIDE
P1 30' X 12" GROUP C PIPE
GOLDEN CITY, MO



STA 14+13.62 RT
8" PCC PE
12' WIDE
P4 22' X 12" GROUP C PIPE
GOLDEN CITY, MO



STA 13+38.32 LT
8" PCC PE
12' WIDE
UIP PIPE
GOLDEN CITY, MO

SPECIAL SHEET
DRIVE PROFILES
SHEET 3 OF 4

STATE OF MISSOURI
ROBERT B. GREEN
NUMBER PE-25339
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED
3/3/2025

ROUTE	STATE
VAR.	MO
DISTRICT	SHEET NO.
SW	22

COUNTY
BARTON/DADE

JOB NO.
J7S3531

CONTRACT ID.

PROJECT NO.

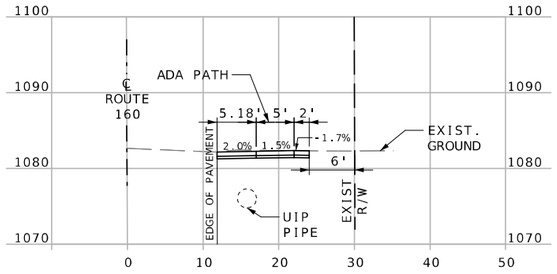
BRIDGE NO.

DESCRIPTION	DATE

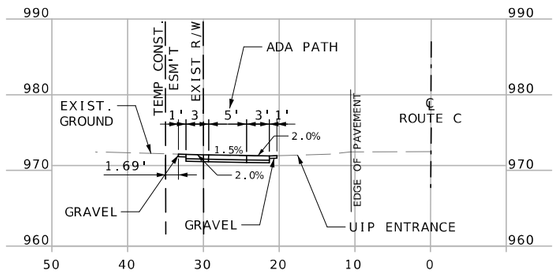
IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

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

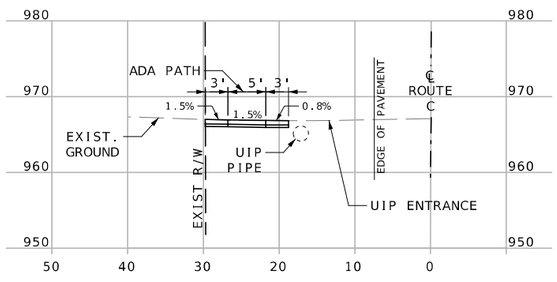
Bartlett & West
601 MONROE ST. SUITE 201 - JEFFERSON CITY, MO 65101
PHONE 573-634-3181
CERTIFICATE OF AUTHORITY NO. 000167 - ENGINEERING
WWW.BARTLETTWEST.COM



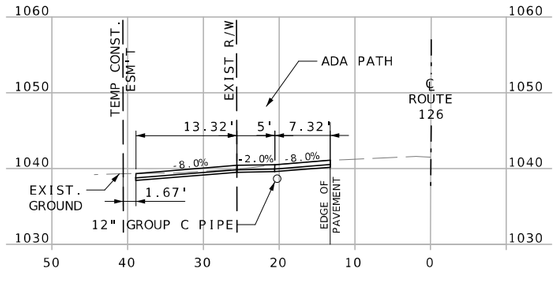
STA 12+47.70 RT
8" PCC PE
20' WIDE
UIP PIPE
LOCKWOOD, MO



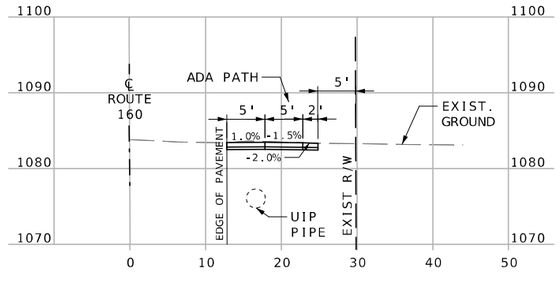
STA 6+96.65 LT
8" PCC PE
42' WIDE
NO PIPE
IRWIN, MO



STA 4+16.20 LT
8" PCC PE
10' WIDE
UIP PIPE
IRWIN, MO



STA 18+13.87 LT
8" PCC PE
13' WIDE
P7 24' X 12" GROUP C PIPE
GOLDEN CITY, MO



STA 13+95.32 RT
8" PCC PE
15' WIDE
UIP PIPE
LOCKWOOD, MO

SPECIAL SHEET
DRIVE PROFILES
SHEET 4 OF 4

STATE OF MISSOURI
ROBERT B. GREEN
NUMBER PE-25339
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED SEALED AND DATED ELECTRONICALLY.

DATE PREPARED
3/3/2025

ROUTE	STATE
VAR.	MO
DISTRICT	SHEET NO.
SW	23

COUNTY
BARTON/DADE

JOB NO.
J7S3531

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION	DATE

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

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

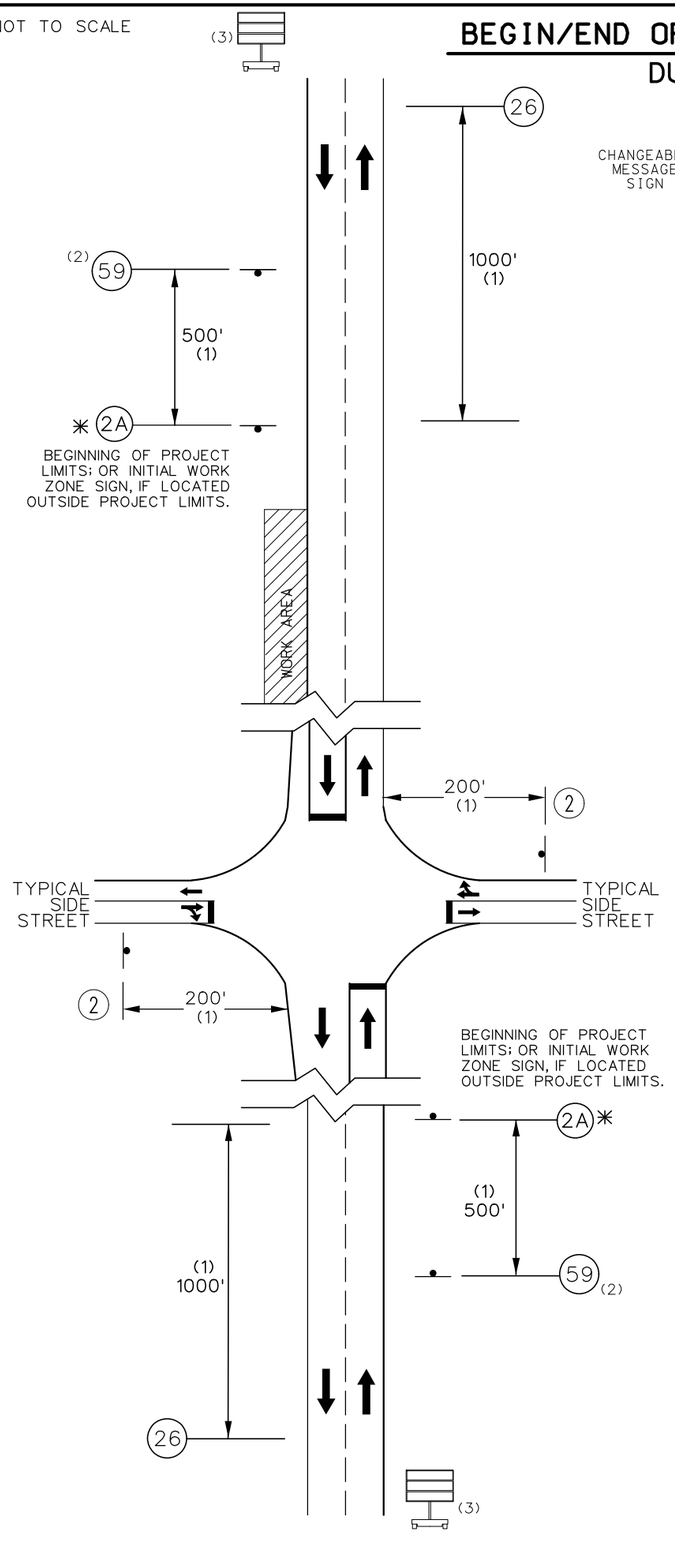
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NOT TO SCALE

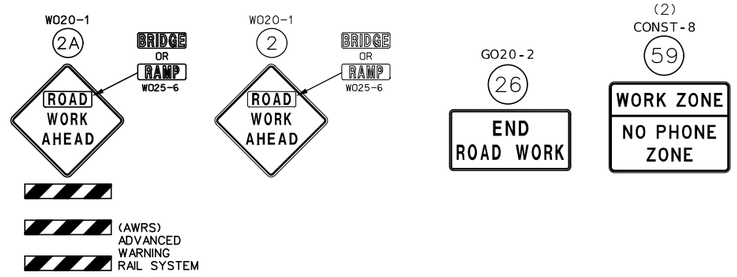
BEGIN/END OF PROJECT SIGNING

DUAL-LANE

EFFECTIVE: 06-08-2016
REVISED (ADA): 04-22-2024



CHANGEABLE MESSAGE SIGN (3)



GO20-2
26
END ROAD WORK

(2)
CONST-8
59
WORK ZONE
NO PHONE ZONE

✱ SIGN (2A) WITH AWRS MUST BE GROUND OR SKID MOUNTED.

SIGN SPACING FOR ADVANCE SIGN SERIES

SPACING BETWEEN SIGNS AND SPACING BETWEEN LAST SIGN AND FLAGGER, BEGINNING OF TAPER, OR SIGNED CONDITION.

SPACINGS MAY BE ADJUSTED AS NECESSARY TO MEET FIELD CONDITIONS.

SPEED MPH (S)	NON-DIVIDED HIGHWAYS	DIVIDED HIGHWAYS
0-35	200 FT	200 FT
40-45	350 FT	500 FT
50-55	500 FT	1000 FT
60-70	1000 FT	1000 FT

GENERAL NOTES:

1. ANY EXISTING SIGNING THAT CONFLICTS WITH THE TRAFFIC CONTROL SIGNING SHALL BE COMPLETELY COVERED OR REMOVED.
2. ALTERNATE TRAFFIC CONTROL MAY BE USED AS NEEDED AT THE APPROVAL OF THE ENGINEER.
3. SEE STANDARD DRAWING 616.10 AND 620.10 FOR ADDITIONAL DETAILS, AND 903.03 FOR SIGN AND SIGN MOUNTING REQUIREMENTS.
4. 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.
5. TEMPORARY SPEED LIMIT SIGNS SHALL BE COVERED OR REMOVED WHEN THE CONDITIONS REQUIRING REDUCED SPEEDS DO NOT EXIST.
6. NO DIRECT PAYMENT WILL BE MADE FOR THE RELOCATION OF CHANNELIZERS, CONST. SIGNS OR FLASHING ARROW PANEL.
7. NO DIRECT PAYMENT WILL BE MADE FOR TEMPORARY STOP OR YIELD SIGNS AS NEEDED TO MAINTAIN EXISTING STOP/YIELD CONDITIONS AS APPROVED BY THE ENGINEER.
8. ALL SIGNS, EXCEPT "RATE OUR WORK ZONE" SIGN, 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.
9. 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. ALL TRAFFIC CONTROL SHALL CONFORM TO THE LATEST EDITION OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD).
10. 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.
11. THE CONTRACTOR SHALL MAINTAIN PUBLIC ACCESS TO ALL BUSINESSES AND STREETS. NO STREET OR ENTRANCE SHALL BE COMPLETELY BLOCKED.
12. ALL PEDESTRIAN TRAFFIC CONTROL DEVICES SHALL REMAIN IN PLACE UNTIL THE CURB RAMP & SIDEWALK IS OPENED FOR PEDESTRIAN TRAVEL.
13. PEDESTRIAN TRAFFIC CONTROL SIGNS MAY BE MOUNTED ON PORTABLE MOUNTS AT 1 FT. PROVIDED THEY DO NOT INTERFERE WITH PEDESTRIAN MOVEMENT OR BE OBSTRUCTED BY PARKING. OTHERWISE, SIGNS SHALL BE MOUNTED AT 7 FT.
14. SPACING & DISTANCES OF TRAFFIC CONTROL DEVICES ARE APPROXIMATE. THE EXACT LOCATIONS SHALL BE DETERMINED IN THE FIELD & APPROVED BY THE ENGINEER.

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

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

TRAFFIC CONTROL
SHEET 1 OF 4

STATE OF MISSOURI
ROBERT B. GREEN
NUMBER PE-25339
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

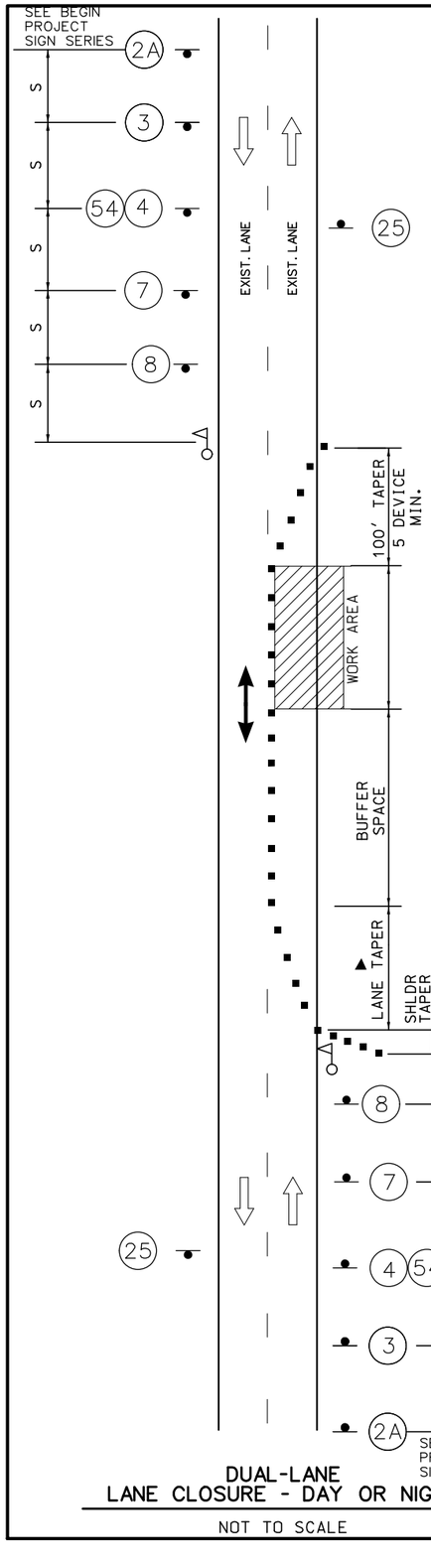
DATE PREPARED: 3/3/2025
ROUTE: VAR. | STATE: MO
DISTRICT: SW | SHEET NO.: 24
COUNTY: BARTON/DADE
JOB NO.: J7S3531
CONTRACT ID.:
PROJECT NO.:
BRIDGE NO.:

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

DESCRIPTION	DATE

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

Bartlett & West
601 MONROE ST. SUITE 201 - JEFFERSON CITY, MO 65101
PHONE 573-634-3181
CERTIFICATE OF AUTHORITY NO. 000167 - ENGINEERING
WWW.BARTLETTWEST.COM



DUAL-LANE
LANE CLOSURE - DAY OR NIGHT

NOT TO SCALE

SIGNING REFLECTS DAY OR NIGHT TIME WORKING HOURS

NIGHT TIME WORK HOURS
7 PM - 6 AM

EFFECTIVE: 06-08-2016
REVISED (ADA): 04-22-2024

Speed Limit[1], mph	Taper Length[2], ft.		Channelizing Spacing [3], ft.	
	Shoulder[4] (T1)	Lane[5] (T2)	Tapers	Buffer/Work Areas
up to 35	70	245	35[6]	40[6]
40 to 45	150	540	40[6]	80[6]
50 to 55	185	660	50[7]	80[7]
60 to 70	235	840	60[7]	120[7]

[1] Speed limit is based on posted speed limit.
[2] Taper lengths may be adjusted to accommodate crossroads, curves, intersections, ramps or other geometric features.
[3] Channelizer spacing may be reduced to discourage traffic encroachment.
[4] Based on 10 ft. shoulder width.
[5] Based on 12 ft. lane width.
[6] Spacing reduced to 1/2 at intersections.
[7] Spacing may be reduced to 1/2 at intersections.

Speed Limit[1], mph	Sign Spacing[2], ft.	
	Undivided Highway	Divided Highway
up to 35	200[3]	200[3]
40 to 45	350	500
50 to 55	500	1000
60 to 70	1000	SA-1000 SB-1500 SC-2640

[1] Speed limit is based on posted speed limit.
[2] Sign spacing may be adjusted, normally by increasing it, to accommodate field conditions and visibility.
[3] For urban low speed, minimum recommended spacing in MUTCD is 100 ft.

SPEED REDUCTIONS PER LOCATION				
GODLEN CITY	IANTHA	IRWIN	LOCKWOOD RT 160	LOCKWOOD RT 97
20	20	45	30	20

SPEED LIMITS PER LOCATION				
GODLEN CITY	IANTHA	IRWIN	LOCKWOOD RT 160	LOCKWOOD RT 97
30	30	55	40	30

BRIDGE OR RAMP

ROAD WORK AHEAD — W020-1 (2)

SPEED LIMIT XX — W3-5 (3)

SPEED LIMIT XX — R2-1 (4) (REDUCED SPEED)

ONE LANE ROAD AHEAD — W020-4 (7)

W020-7a (8)

SPEED LIMIT XX — R2-1 (25) (NORMAL SPEED)

WORK ZONE — G020-5aP (54)

FLAGGER - AT NIGHT, FLAGGER STATIONS SHALL BE ILLUMINATED

CHANNELIZERS

* SIGN W020-7A (FLAGGER SYMBOL) FLAGS ARE INCIDENTAL TO THE SIGN. NO DIRECT PAY.

NOTES:

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

▲ IN TAPER SECTIONS: QUANTITY OF TRIMLINE CHANNELIZERS IS DOUBLED WHEN COMPARED TO MAX. CHANNELIZER SPACING IN THE CHART.

TEMPORARY PAVEMENT MARKING REQUIRED WITH LONG TERM LANE CLOSURES (NO DIRECT PAY)

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

NO DIRECT PAYMENT WILL BE MADE FOR TEMPORARY STOP OR YIELD SIGNS AS NEEDED TO MAINTAIN EXISTING STOP/YIELD CONDITONS AS APPROVED BY THE ENGINEER.

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

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.

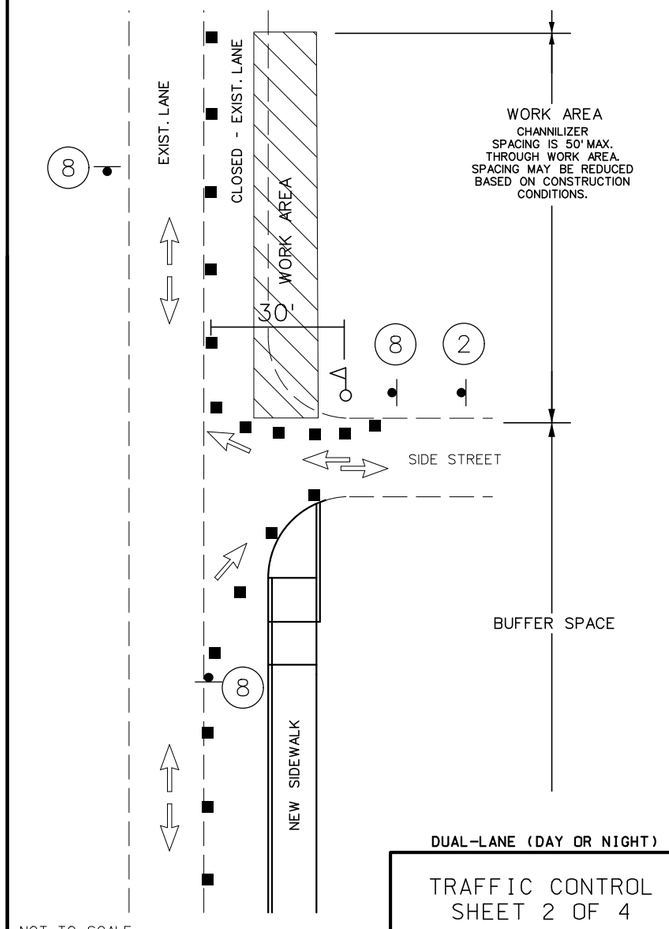
ALL SIGNS, EXCEPT "RATE OUR WORK ZONE", SHALL BE PORTABLE MOUNT AND ARE TO BE MOVED AS WORK PROGRESSES, UNLESS OTHERWISE NOTED. ALL TRAFFIC CONTROL ITEMS SHALL BE REMOVED FROM THE ROADWAY DURING NON-WORKING HOURS.

WORK WILL REQUIRE LANE CLOSURES UNLESS OTHERWISE APPROVED BY ENGINEER.

LAYOUT IS TYPICAL FOR EITHER DIRECTION. ALTERNATE TRAFFIC CONTROL MAY BE USED AS NEEDED AT THE APPROVAL OF THE ENGINEER. SEE STANDARD DRAWING 616.10 FOR ADDITIONAL DETAILS.

THE MAX. CHANNELIZER SPACING WITHIN THE WORK ZONE AREA MAY BE REDUCED BASED ON CONSTRUCTION CONDITIONS, AS APPROVED BY ENGINEER.

SIDE STREET FLAGGING DETAIL



DUAL-LANE (DAY OR NIGHT)

NOT TO SCALE

TRAFFIC CONTROL
SHEET 2 OF 4

STATE OF MISSOURI
ROBERT B. GREEN
NUMBER PE-25339
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED: 3/3/2025
ROUTE: VAR. | STATE: MO
DISTRICT: SW | SHEET NO.: 25
COUNTY: BARTON/DADE
JOB NO.: J7S3531
CONTRACT ID.:
PROJECT NO.:
BRIDGE NO.:

DESCRIPTION | DATE

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

Bartlett & West
601 MONROE ST. SUITE 201 - JEFFERSON CITY, MO 65101
PHONE 573-634-3181
CERTIFICATE OF AUTHORITY NO. 000167 - ENGINEERING
WWW.BARTLETTWEST.COM

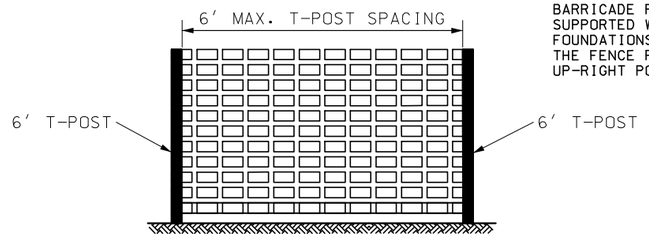
IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

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.

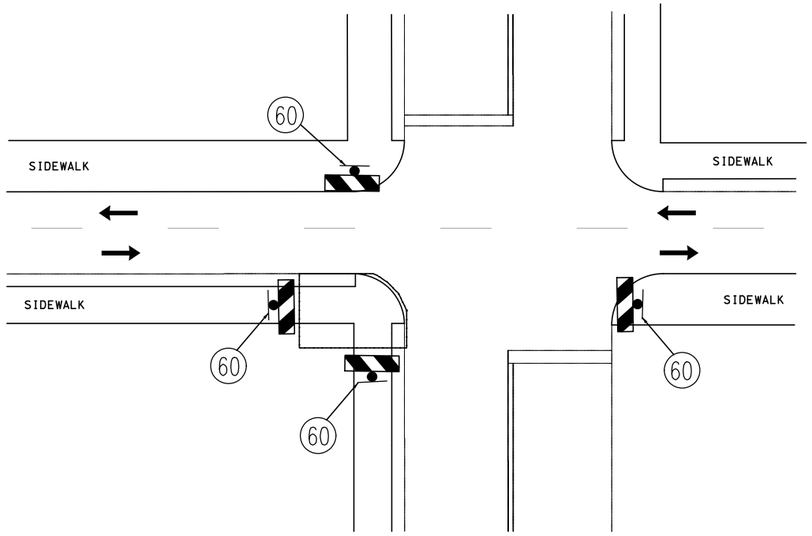
ORANGE PLASTIC SAFETY FENCE

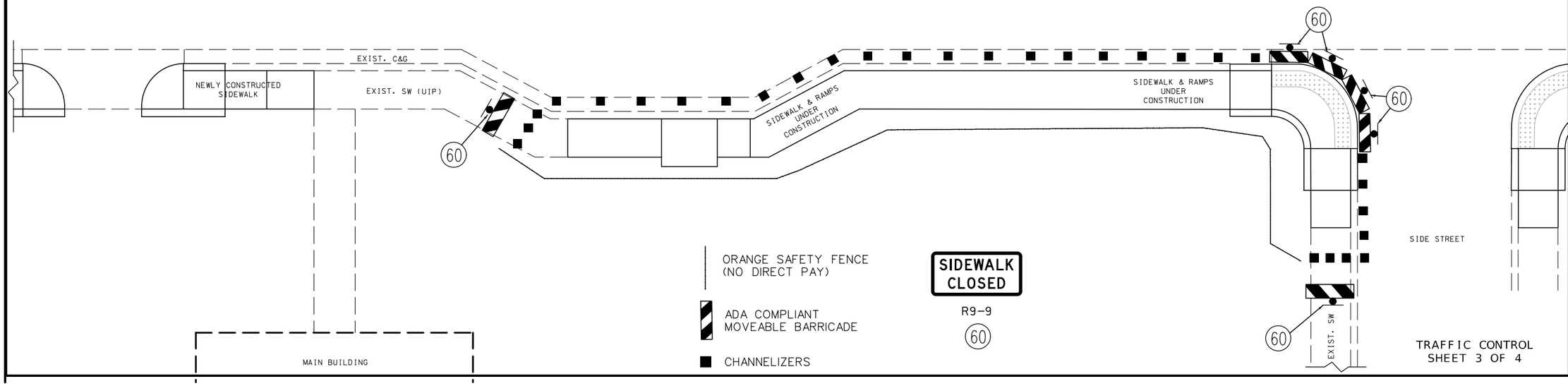


NO DIRECT PAY.
PLASTIC SAFETY NETTING USED FOR BARRICADE FENCING SHALL BE SUPPORTED WITH T-POST, ADEQUATE FOUNDATIONS, AND BALLAST SO THAT THE FENCE REMAINS TAUT AND IN AN UP-RIGHT POSITION.

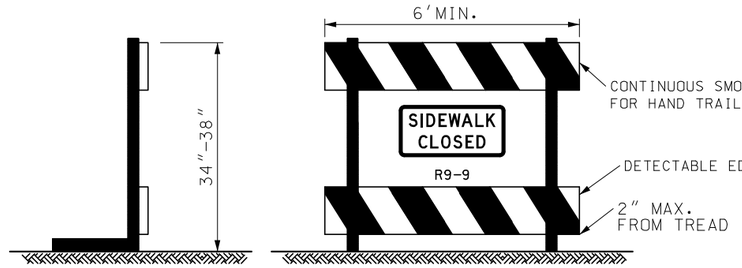
DUAL-LANE TYPICAL SIDEWALK CLOSURE

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.

TRAFFIC CONTROL
SHEET 3 OF 4

STATE OF MISSOURI
ROBERT B. GREEN
NUMBER PE-25339
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED: 3/3/2025

ROUTE	STATE
VAR.	MO
DISTRICT	SHEET NO.
SW	26

COUNTY: BARTON/DADE
JOB NO.: J7S3531
CONTRACT ID.:
PROJECT NO.:
BRIDGE NO.:

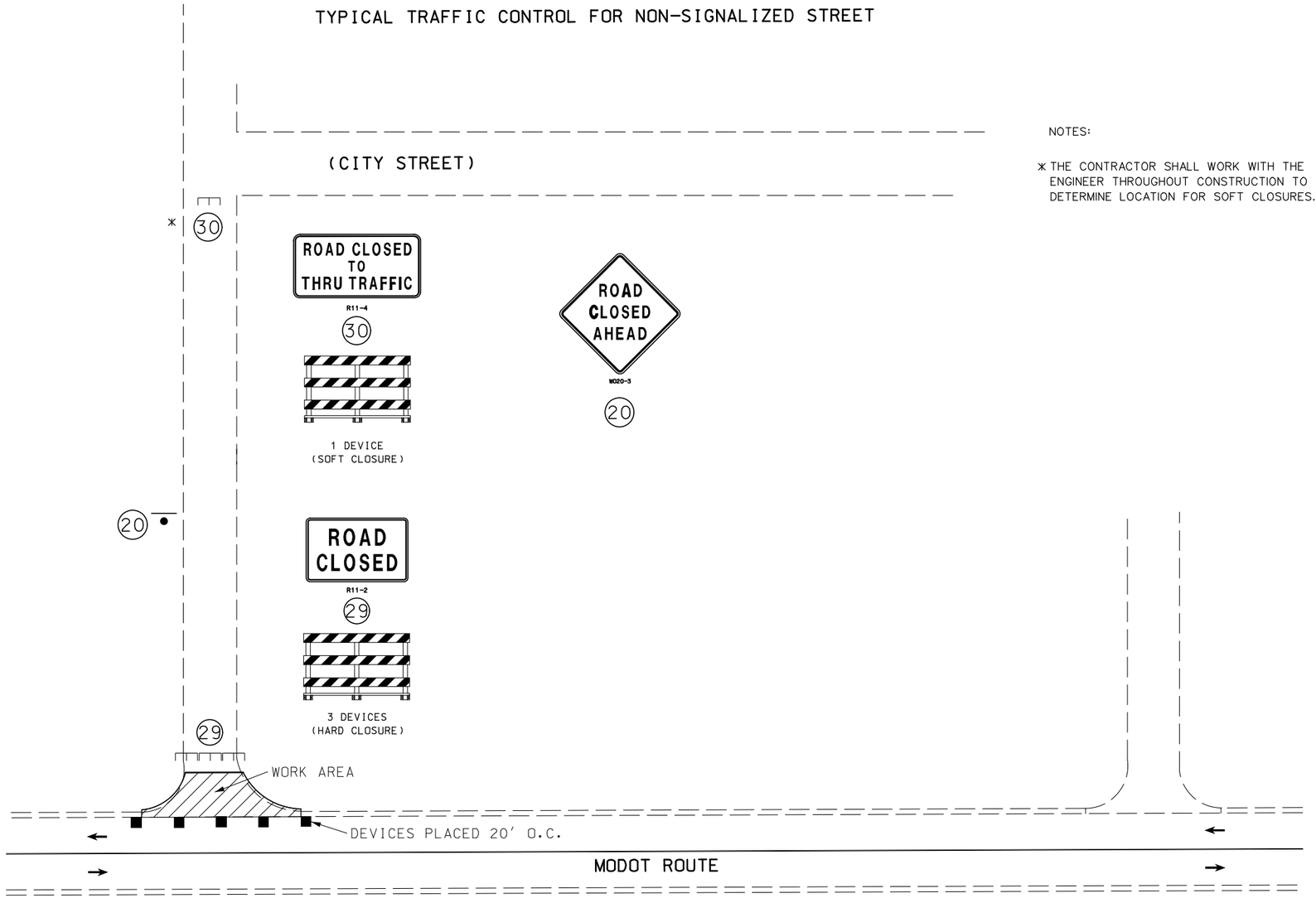
DESCRIPTION	DATE

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

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

Bartlett & West
601 MONROE ST. SUITE 201 - JEFFERSON CITY, MO 65101
PHONE 573-634-3181
CERTIFICATE OF AUTHORITY NO. 000167 - ENGINEERING
WWW.BARTLETTWEST.COM

TYPICAL TRAFFIC CONTROL FOR NON-SIGNALIZED STREET



NOTES:

* THE CONTRACTOR SHALL WORK WITH THE ENGINEER THROUGHOUT CONSTRUCTION TO DETERMINE LOCATION FOR SOFT CLOSURES.

TRAFFIC CONTROL
SHEET 4 OF 4

STATE OF MISSOURI
ROBERT B. GREEN
NUMBER PE-2339
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED 3/3/2025

ROUTE	STATE
VAR.	MO
DISTRICT	SHEET NO.
SW	27

COUNTY: BARTON/DADE
JOB NO.: J7S3531
CONTRACT ID.:
PROJECT NO.:
BRIDGE NO.:

DESCRIPTION	DATE

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

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

Bartlett & West
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PHONE 573-634-3181
CERTIFICATE OF AUTHORITY NO. 000167 - ENGINEERING
WWW.BARTLETTWEST.COM

REVISED: 11-18-2021

NOTES:

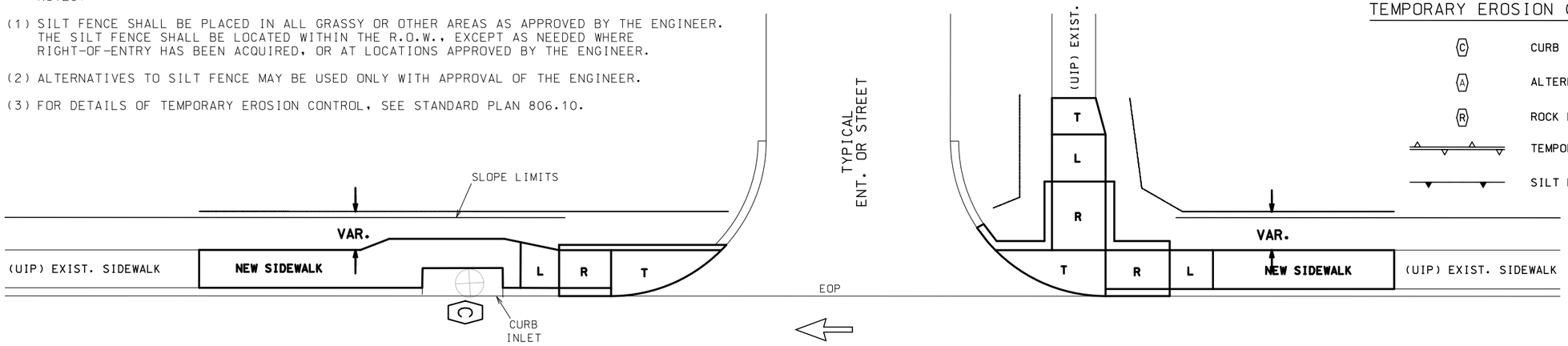
(1) SILT FENCE SHALL BE PLACED IN ALL GRASSY OR OTHER AREAS AS APPROVED BY THE ENGINEER. THE SILT FENCE SHALL BE LOCATED WITHIN THE R.O.W., EXCEPT AS NEEDED WHERE RIGHT-OF-ENTRY HAS BEEN ACQUIRED, OR AT LOCATIONS APPROVED BY THE ENGINEER.

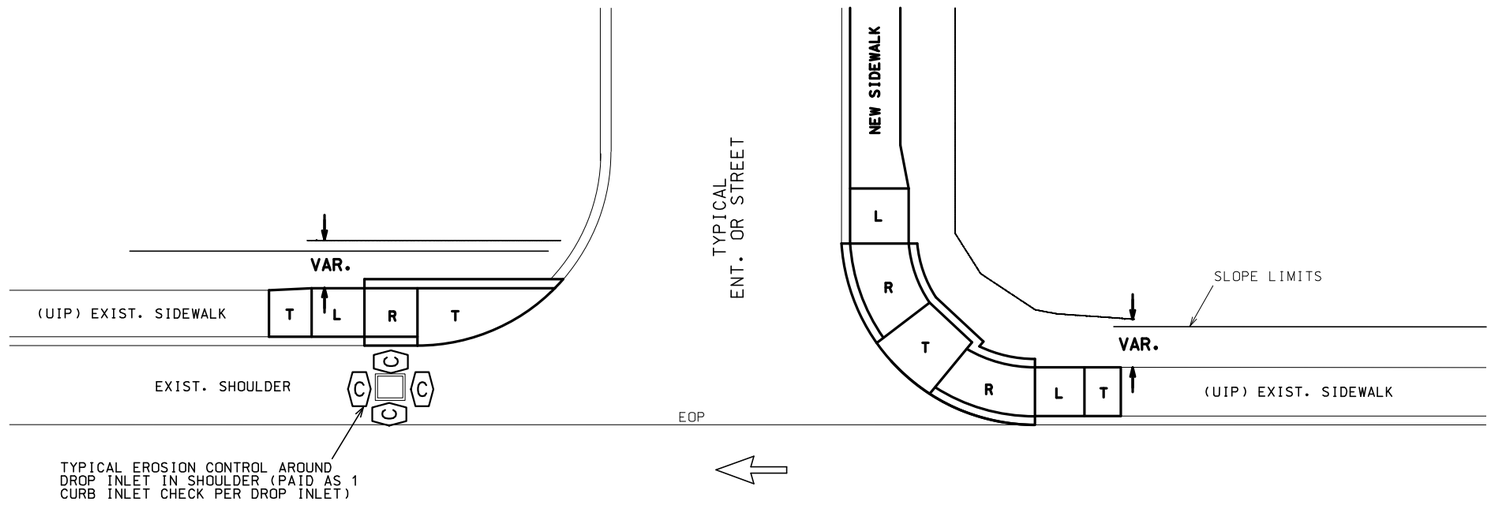
(2) ALTERNATIVES TO SILT FENCE MAY BE USED ONLY WITH APPROVAL OF THE ENGINEER.

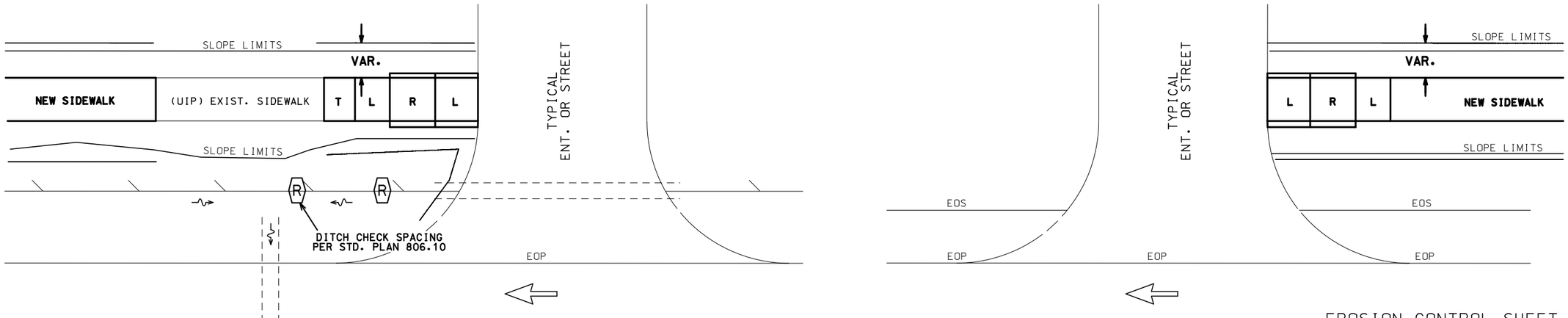
(3) FOR DETAILS OF TEMPORARY EROSION CONTROL, SEE STANDARD PLAN 806.10.

TEMPORARY EROSION CONTROL LEGEND

- (C) CURB INLET CHECK
- (A) ALTERNATE CHECK
- (R) ROCK DITCH CHECK
- TEMPORARY BERM
- SILT FENCE







NOT TO SCALE

TYPICAL EROSION CONTROL APPLICATIONS
FOR NEW CURB RAMP & SIDEWALK CONSTRUCTION

EROSION CONTROL SHEET
SHEET 1 OF 1

STATE OF MISSOURI
ROBERT B. GREEN
NUMBER PE-25339
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED: 3/3/2025
ROUTE: VAR. | STATE: MO
DISTRICT: SW | SHEET NO.: 28
COUNTY: NEWTON
JOB NO.: J7S3506
CONTRACT ID.:
PROJECT NO.:
BRIDGE NO.:

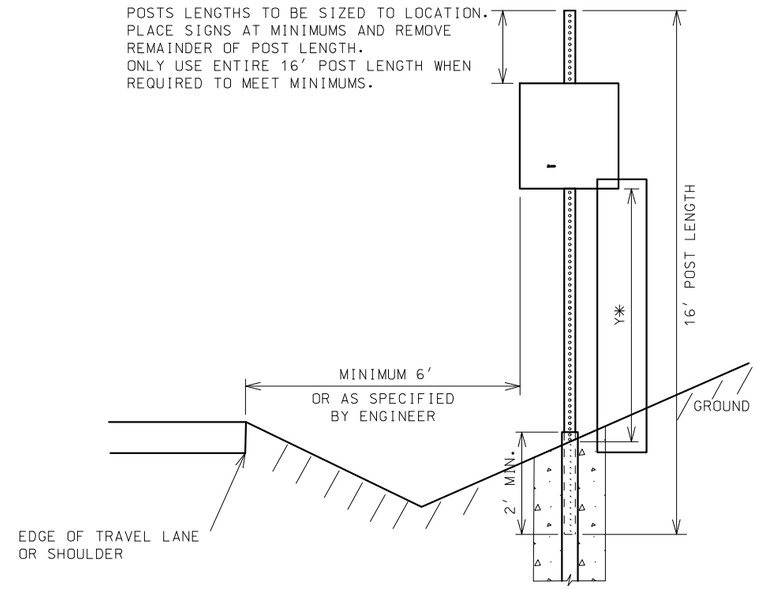
DESCRIPTION | DATE

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

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

Bartlett & West
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MOUNTING HEIGHT DETAIL



* FOR RURAL AREAS – 80" MINIMUM REQUIRED WHEN SIGNS ARE LOCATED ALONG AND WITHIN A PEDESTRIAN ROUTE. IN SITUATIONS WHERE THE SIGN IS NOT LOCATED WITHIN THE PEDESTRIAN ROUTE THE MINIMUM HEIGHT COULD BE REDUCED TO 6' IF 80" IS NOT ACHEIVABLE WITH A 16' POST.
FOR URBAN AREAS – MINIMUM REQUIRED HEIGHT SHALL BE 84" WHETHER OR NOT IT IS WITHIN A PEDESTRIAN ROUTE

NOTE: PERFORATED SQUARE STEEL TUBE (PSST) POSTS ARE PAID AS 16 LINEAR FOOT. CONTRACTOR IS RESPONSIBLE TO PROPERLY PLACE SIGN AS SHOWN ABOVE IN "MOUNTING HEIGHT DETAIL"

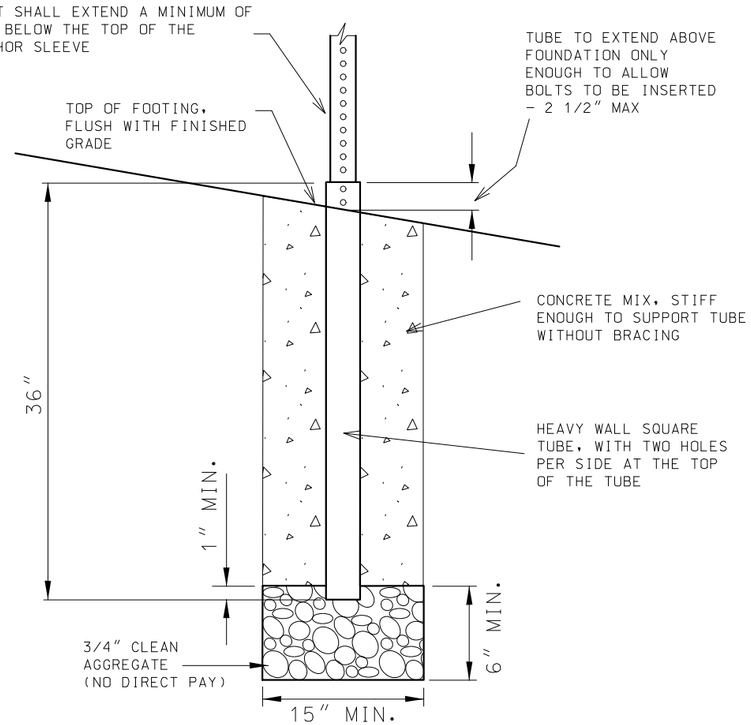
POSTS – 12 GAUGE – 2.5" X 2.5"

ANCHORS – 7 GAUGE – 3" X 3" O.D.

BREAKAWAY – CERTIFIED NCHRP 350 COMPLIANT USE REQUIRED FOR DOUBLE POST INSTALLATIONS ONLY

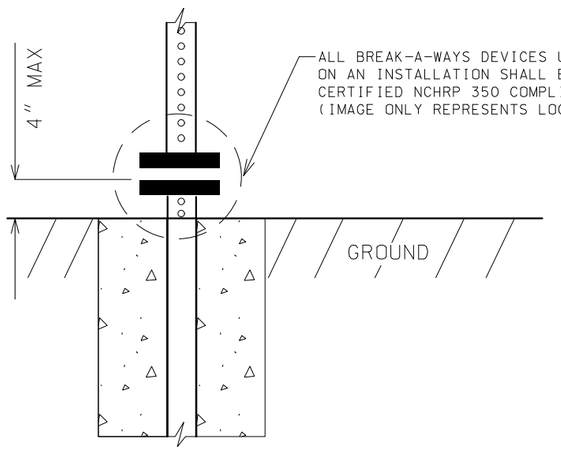
GALVANIZATION – ALL PSST POSTS, ANCHORS AND BREAKAWAY CASTINGS SHALL BE GALVANIZED PER MODOT STANDARD SPECIFICATIONS

CONCRETE FOOTING DETAIL



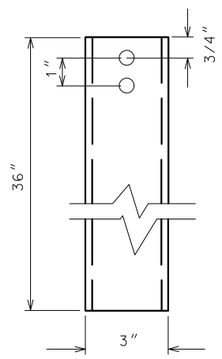
PSST CONCRETE FOOTINGS EMBEDDED PAID AS 3' LENGTH, 15" DIAMETER = 0.14 CUBIC YARDS
REQUIRED AGGREGATE CONSIDERED INCIDENTIAL AND INCLUDED IN CONCRETE FOOTING

BREAKAWAY DETAIL



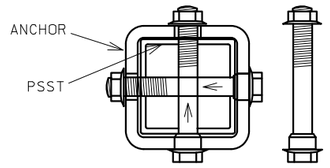
WHEN BREAKAWAY DEVICES ARE REQUIRED THE PORTION FIXED TO THE GROUND ANCHOR SHALL BE NO HIGHER THAN 4" ABOVE THE FINISHED GRADE

7 GAUGE ANCHOR FABRICATION DETAIL FOR 2.5" PSST



ANCHOR BOLT DETAIL FOR 2.5" PSST

2 SHOULDER BOLTS REQUIRED
INSTALLED PERPENDICULAR TO EACH OTHER



3/8" X 3.5" SHOULDER BOLT AND NUT

SIGNING SHEET
SHEET 1 OF 3

STATE OF MISSOURI
ROBERT B. GREEN
NUMBER PE-25339
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED SEALED AND DATED ELECTRONICALLY.

DATE PREPARED 3/3/2025
ROUTE VAR. | STATE MO
DISTRICT SW | SHEET NO. 29
COUNTY BARTON/DADE
JOB NO. J7S3531
CONTRACT ID.
PROJECT NO.
BRIDGE NO.

DESCRIPTION | DATE

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

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

Bartlett & West
601 MONROE ST. SUITE 201 - JEFFERSON CITY, MO 65101
PHONE 573-634-3181
CERTIFICATE OF AUTHORITY NO. 000167 - ENGINEERING
WWW.BARTLETTWEST.COM

SIGNS						CONCRETE FOOTINGS EMBEDDED	STRUCTURAL STEEL POSTS*						PIPE POSTS*					BACKING BARS**				U-CHANNEL POST	PERFORATED SQUARE STEEL TUBE											BREAK-AWAY ASSEMBLY	REMARKS AND OTHER REQUIRED ITEMS
902 SIGNAL SIGNS TABULATED ON D-37A SHEET																						2-INCH POST						2.5-INCH POST						
																								TOTAL	ANCHORS				TOTAL	2.25"	ANCHORS				
SIGN NO.	SIGN SIZE	STATION OR LOG MILE	HORIZ CLEAR IF NOT STD	LOCATION	SIGN DTL SHT NO.	ITEM NO. 9031010	POST DES NO.	POST NO.1	POST NO.2	POST NO.3	LBS PER FT	TOTAL ITEM NO. 9031210	PIPE SIZE	POST NO.1	POST NO.2	LBS PER FT	TOTAL ITEM NO. 9031220	2" X 3/8" BARS AT 2.55 LBS/FT NO.	LGTH	TOTAL	TOTAL	ITEM NO. 9031250A	POST NO.1	POST NO.2	ITEM NO. 9031270A	DRIVEN 12 GA. ITEM NO. 9031271A	DRIVEN 7 GA. ITEM NO. 9031273A	CONCRETE 7 GA. ITEM NO. 9031274	POST NO.1	POST NO.2	ITEM NO. 9031280	INSERT (6 FT) ITEM NO. 9031272A	DRIVEN 7 GA. ITEM NO. 9031281A	CONCRETE 7 GA. ITEM NO. 9031285	ITEM NO. 9031241	
						CY		LF	LF	LF		LBS	IN	LF	LF		LBS	EACH	IN.	LF	LBS	LF	LF	LF	LF	EACH	EACH	EACH	LF	LF	LF	EACH	EACH	EACH	EACH	
GOLDEN CITY - ROUTE 126																																			
1	EXIST.	32+32	30.53'	RIGHT																									16		16			1	1	
2	EXIST.	32+78	39.84'	RIGHT																									16		16			1	1	
3	36 x 36	37+27	39.00'	RIGHT																									16		16			1	1	
4	36 x 36	39+27	39.00'	RIGHT																									16		16			1	1	
5	36 x 36	39+37	16.27'	LEFT																									16		16			1	1	
6	36 x 36	41+37	16.07'	LEFT																									16		16			1	1	
IANTHA - HWY W																																			
1	36 x 36	341+70	18.43'	RIGHT																									16		16			1	1	
2	36 x 36	343+70	12.26'	RIGHT																									16		16			1	1	
3	36 x 36	343+78	14.45'	LEFT																									16		16			1	1	
4	36 x 36	1+23	15.04'	LEFT																									16		16			1	1	
IRWIN - HWY C																																			
1	36 x 36	5+44	13.22'	RIGHT																									16		16			1	1	
2	36 x 36	7+44	11.42'	RIGHT																									16		16			1	1	
3	36 x 36	7+56	17.78'	LEFT																									16		16			1	1	
4	36 x 36	9+56	21.87'	LEFT																									16		16			1	1	
LOCKWOOD - ROUTE 160																																			
1	36 x 36	32+03	26.87'	LEFT																									16		16			1	1	
2	EXIST.	32+48	19.06'	RIGHT																									16		16			1	1	
3	EXIST.	32+54	29.85'	LEFT																									16		16			1	1	
4	36 x 36	36+52	20.25'	RIGHT																									16		16			1	1	
5	36 x 36	36+60	20.85	LEFT																									16		16			1	1	
6	VAR.	0+22	26.53'	LEFT																									16		16			1	1	
7	EXIST.	3+69	34+86'	LEFT																									16		16			1	1	
8	36 x 36	4+04	11.24'	RIGHT																									16		16			1	1	
9	36 x 36	4+14	18.87'	LEFT																									16		16			1	1	
10	36 x 36	6+14	18.87'	LEFT																									16		16			1	1	
LOCKWOOD - ROUTE 97																																			
11	36 x 36	1+49	13.71'	RIGHT																									16		16			1	1	
12	36 x 36	3+49	13.71'	RIGHT																									16		16			1	1	
13	36 x 36	3+55	10.72	LEFT																									16		16			1	1	
14	36 x 36	3+62	23.00'	LEFT																									16		16			1	1	
15	36 x 36	5+55	10.72'	LEFT																									16		16			1	1	
16	36 x 36	9+56	19.85'	RIGHT																									16		16			1	1	
17	36 x 36	11+56	19.85'	RIGHT																									16		16			1	1	
18	36 x 36	11+62	20.78'	LEFT																									16		16			1	1	
19	36 x 36	13+62	20.78'	LEFT																									16		16			1	1	
SUBTOTAL																													528					33	33	
TOTAL																					**								528					33	33	

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

ROUND PIPE POST AND FOOTING DATA TABLE

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

STRUCTURAL STEEL POST AND FOOTING DATA TABLE

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

SIGNING SHEET
SHEET 2 OF 3

D-29

EFFECTIVE: 07-01-2024

STATE OF MISSOURI
ROBERT B. GREEN
NUMBER PE-25339
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED SEALED AND DATED ELECTRONICALLY.

DATE PREPARED
3/3/2025

ROUTE: VAR. | STATE: MO
DISTRICT: SW | SHEET NO.: 30
COUNTY: BARTON/DADE
JOB NO.: J7S3531
CONTRACT ID.:
PROJECT NO.:
BRIDGE NO.:

DESCRIPTION	DATE

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

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

Bartlett & West
601 MONROE ST. SUITE 201 - JEFFERSON CITY, MO 65101
PHONE 573-634-3181
CERTIFICATE OF AUTHORITY NO. 000167 - ENGINEERING
WWW.BARTLETTWEST.COM

EFFECTIVE 10-01-2016

STANDARD SIGN ASSEMBLIES

SIGN NUMBER	STATION	LOCATION	SIGN TYPE, DESCRIPTION, SIZES & NUMBER OF EACH					
			W11-2	W16-9P (AHEAD)	W16-7P	R1-1 (STOP)		
			36 X 36	30 X 18	30 X 18	36 X 36		
GOLDEN CITY - ROUTE 126								
3	37+27	RIGHT	1	1				
4	39+27	RIGHT	1		1			
5	39+37	LEFT	1		1			
6	41+37	LEFT	1	1				
IANTHA - HWY W								
1	342+17	RIGHT	1	1				
2	343+70	RIGHT	1		1			
3	343+78	LEFT	1		1			
4	1+23	LEFT	1	1				
IRWIN - HWY C								
1	5+44	RIGHT	1	1				
2	7+44	RIGHT	1		1			
3	7+56	LEFT	1		1			
4	9+56	LEFT	1	1				
LOCKWOOD - ROUTE 160								
2	32+03	LEFT				1		
5	36+52	RIGHT	1		1			
6	36+60	LEFT	1		1			
11	4+04	RIGHT	1		1			
12	4+14	LEFT	1		1			
13	6+14	LEFT	1	1				
LOCKWOOD - ROUTE 97								
14	1+49	RIGHT	1	1				
15	3+49	RIGHT	1		1			
16	3+55	LEFT	1		1			
18	5+55	LEFT	1	1				
19	9+56	RIGHT	1	1				
20	11+56	RIGHT	1		1			
21	11+62	LEFT	1		1			
22	13+62	LEFT	1	1				
			25	11	14	1		

SIGN SUMMARY

STANDARD SIGN OR SPECIAL SIGN NUMBER	SIGN DETAIL SHEET NO.	NO. EACH	SIZE, TYPE & SQUARE FEET				
			SIZE	FLAT SHEET SH ITEM NO. 9035004A	FLAT SHEET FLUORESCENT SHF * ITEM NO. 9035069A	STRUCTURAL ST ITEM NO. 9035011A	STRUCTURAL FLUORESCENT STF * ITEM NO. 9035071A
STANDARD SIGN W11-2		25	36 X 36		225		
STANDARD SIGN W16-9P		11	30 X 18		41.25		
STANDARD SIGN W16-7P		14	30 X 18		52.5		
STANDARD SIGN R1-1		1	36 X 36	9			
TOTAL				9	319		

* ORANGE, YELLOW & YELLOW/GREEN

SIGNING SHEET
SHEET 3 OF 3

D-30

STATE OF MISSOURI
ROBERT B. GREEN
NUMBER PE-25339
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED SEALED AND DATED ELECTRONICALLY.

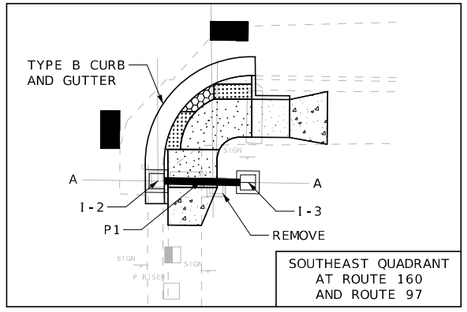
DATE PREPARED: 4/21/2025
ROUTE: VAR. | STATE: MO
DISTRICT: SW | SHEET NO.: 31
COUNTY: BARTON/DADE
JOB NO.: J7S3531
CONTRACT ID.:
PROJECT NO.:
BRIDGE NO.:

DESCRIPTION | DATE

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

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

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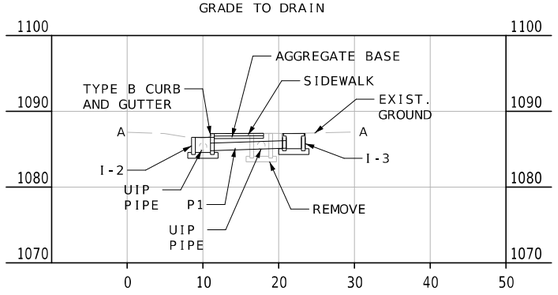


SOUTHEAST QUADRANT
AT ROUTE 160
AND ROUTE 97

I-2
STA. 0+22.93
32.64' RT
℄ ROUTE 160
TYPE A DROP INLET
TOP OF INLET EL. = 1086.55'
D = 2'
2' X 2' OPENING

I-3
STA. 0+34.97
32.75' RT
℄ ROUTE 160
TYPE S-1 DROP INLET
TOP OF INLET EL. = 1087.06'
D = 2'
3'X 2' OPENING

P1
10' X 12"
GROUP C PIPE
GRADE TO DRAIN



CULVERT SECTION
SHEET 1 OF 1

STATE OF MISSOURI
ROBERT B. GREEN
NUMBER PE-25339
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED SEALED AND DATED ELECTRONICALLY.

DATE PREPARED
4/21/2025

ROUTE	STATE
VAR.	MO
DISTRICT	SHEET NO.
SW	32

COUNTY
BARTON/DADE

JOB NO.
J7S3531

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION	DATE

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
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DESIGN DESIGNATION

LAMAR
A.A.D.T. - 2022 = 7,103
F.C. - MINOR ARTERIAL

FUNCTIONAL CLASSIFICATION - MINOR ARTERIAL

TEMPORARY CONSTRUCTION EASEMENTS REQUIRED

NEW RIGHT OF WAY REQUIRED

PERMANENT SIDEWALK EASEMENTS REQUIRED

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		
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
BARTON COUNTY
AMERICANS WITH DISABILITIES ACT
(ADA IMPROVEMENTS)

NOT TO SCALE



LOCATION MAP
SHOWING LOCATION OF BARTON COUNTY



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

INDEX OF SHEETS

DESCRIPTION	SHEET NUMBER
TITLE SHEET	1
TYPICAL SECTIONS (TS) (8 SHEETS)	2
QUANTITIES (QU) (4 SHEETS)	3
PLAN-PROFILE (PP)	4-8
REFERENCE POINT (RP)	9
COORDINATE POINTS (CP)	10
SPECIAL SHEETS (SS)	11-16
TRAFFIC CONTROL SHEETS (TC)	17-20
EROSION CONTROL SHEETS (EC)	21
SIGNAL SHEETS (SG)	22-25
SIGNING SHEETS (SN)	26-28

LENGTH OF PROJECT

LAMAR (US 160)

BEGINNING OF PROJECT	STA. 1085 + 75.00
END OF PROJECT	STA. 1141 + 00.00
APPARENT LENGTH	5525.00 FEET
EQUATIONS AND EXCEPTIONS:	NONE

APPARENT LENGTH	5525.00	FEET
TOTAL CORRECTIONS	0.00	FEET
NET LENGTH OF PROJECT	5525.00	FEET
STATE LENGTH	1.046	MILES
FOR INFORMATION ONLY ESTIMATED DISTURBED ACRES	1.35	ACRES

STATE OF MISSOURI
ROBERT B. GREEN
NUMBER PE-25339
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED: 3/3/2025
ROUTE: 160 | STATE: MO
DISTRICT: SW | SHEET NO.: 1
COUNTY: BARTON
JOB NO.: J7S3531B
CONTRACT ID.:
PROJECT NO.:
BRIDGE NO.:

DATE	DESCRIPTION

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

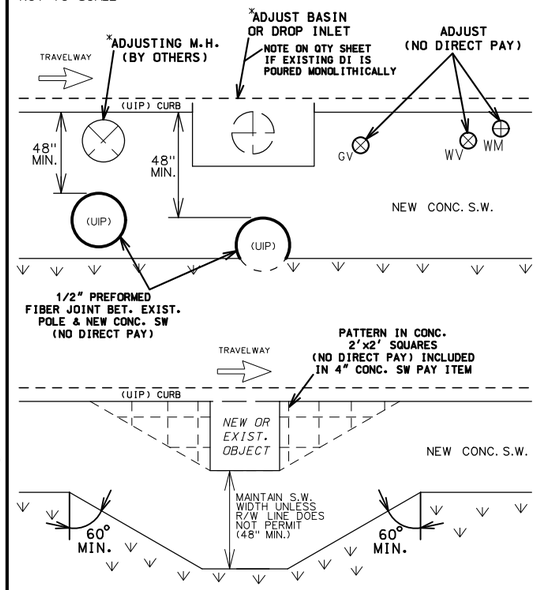
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
MoDOT
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

Bartlett & West
601 MONROE ST. SUITE 201 - JEFFERSON CITY, MO 65101
PHONE 573-634-3181
CERTIFICATE OF AUTHORITY NO. 000167 - ENGINEERING
WWW.BARTLETTWEST.COM

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.

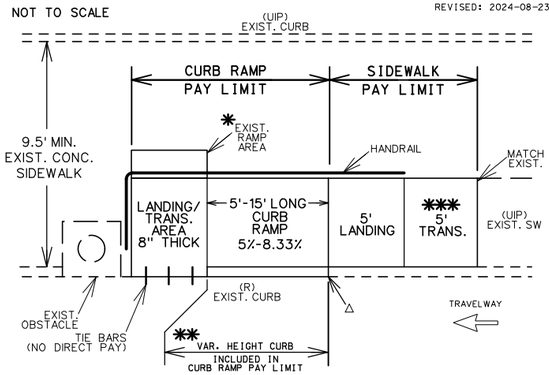
NOT TO SCALE



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: 2024-08-23



△ MATCH EXIST CURB

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

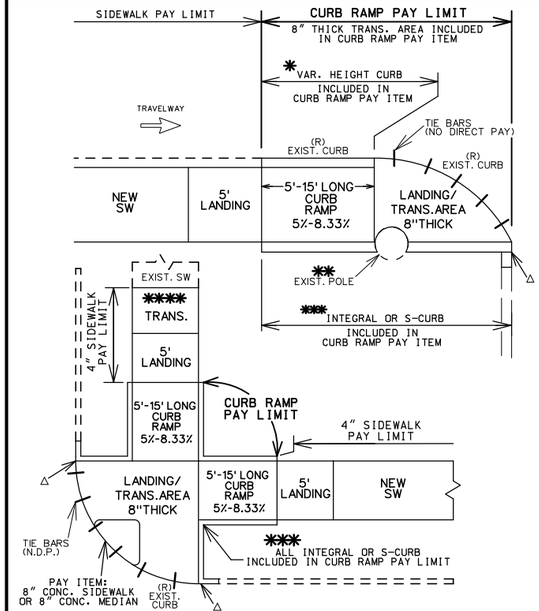
** VAR. HEIGHT CURB ALONG ROADSIDE MAY BE CONSTRUCTED MONOLITHIC OR SEPERATE DEPENDING ON CONST. OPERATIONS.

*** 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.

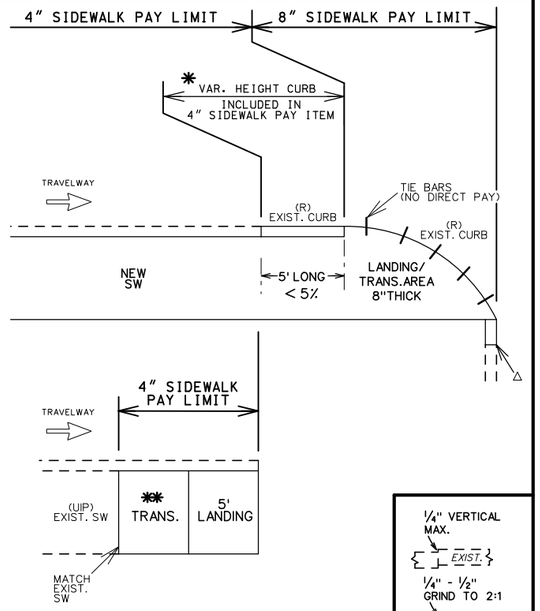
*** TRANSITION PANEL(S) TO BLEND CROSS SLOPE DISCREPENCY WARP RATE NOT TO EXCEED 0.5% PER FT

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

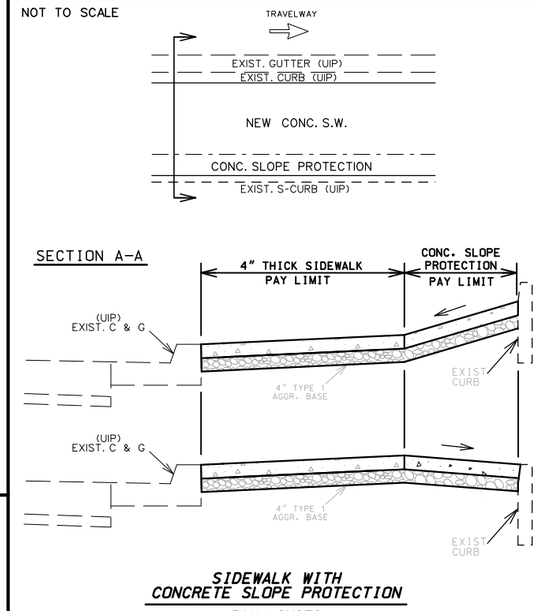
WHEN RAMP AREA IS LESS THAN 5% GRADE, IT IS CONSIDERED SIDEWALK

NOT TO SCALE

JOINT GRINDING

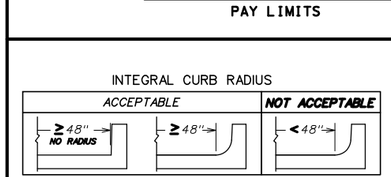
TRIP HAZARDS 622-99.03

NOT TO SCALE



SIDEWALK WITH CONCRETE SLOPE PROTECTION

PAY LIMITS

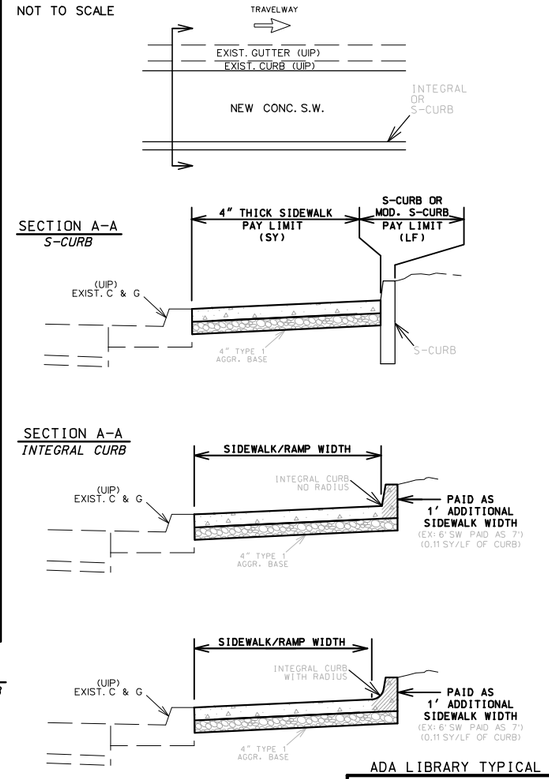


SECTION A-A
INTEGRAL CURB WITH RADIUS

SIDEWALK & RAMP WITH CURB

PAY LIMITS

NOT TO SCALE



ADA LIBRARY TYPICAL

TYPICAL SHEET
SHEET 1 OF 8

STATE OF MISSOURI
ROBERT B. GREEN
NUMBER PE-25339
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED SEALED AND DATED ELECTRONICALLY.

DATE PREPARED: 3/3/2025

ROUTE	STATE
160	MO
DISTRICT	SHEET NO.
SW	2

COUNTY: BARTON
JOB NO.: J7S3531B
CONTRACT ID.:
PROJECT NO.:
BRIDGE NO.:

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

DESCRIPTION	DATE

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

Bartlett & West
601 MONROE ST. SUITE 201 - JEFFERSON CITY, MO 65101
PHONE 573-634-3181
CERTIFICATE OF AUTHORITY NO. 000167 - ENGINEERING
WWW.BARTLETTWEST.COM

PERPENDICULAR – TYPE 1

TYPE 1-A

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	–	8.2	12.8	–	10.8	12.7	–	13.5	15.8	
CONC. SIDEWALK	SY	–	5.6	6.4	–	5.6	6.4	–	4.9	6.4	
TYPE 1 AGGREGATE	SY	–	13.8	16.0	–	16.4	19.1	–	18.3	22.2	
ADA LINEAR GRADING	LF	–	22.0	22.0	–	27.5	27.5	–	30.0	30.5	
SODDING	SY	–	5.8	5.7	–	6.8	6.9	–	7.5	7.9	

TYPE 1-B

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-C

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-D

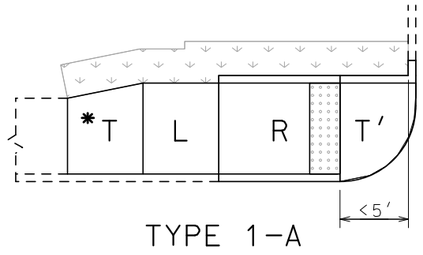
LENGTH (LF)		8			12			16			REMARKS
WIDTH (LF)		4	5	6	4	5	6	4	5	6	
TRUNCATED DOMES	SF	–	18.0	24.0	–	18.0	24.0	–	18.0	24.0	
CURB RAMP	SY	–	18.6	22.8	–	24.0	29.0	–	29.3	35.3	
CONC. SIDEWALK	SY	–	11.2	12.8	–	11.2	12.8	–	9.8	11.4	
TYPE 1 AGGREGATE	SY	–	29.8	35.6	–	35.2	41.8	–	39.1	46.7	
ADA LINEAR GRADING	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-E

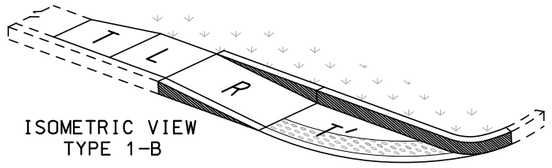
LENGTH (LF)		8			12			16			REMARKS
WIDTH (LF)		4	5	6	4	5	6	4	5	6	
TRUNCATED DOMES	SF	–	18.0	24.0	–	18.0	24.0	–	18.0	24.0	
CURB RAMP	SY	–	14.8	19.0	–	20.1	25.2	–	25.5	31.4	
CONC. SIDEWALK	SY	–	11.2	12.8	–	11.2	12.8	–	9.8	11.4	
TYPE 1 AGGREGATE	SY	–	26.0	31.8	–	31.3	38.0	–	35.3	42.8	
ADA LINEAR GRADING	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-F

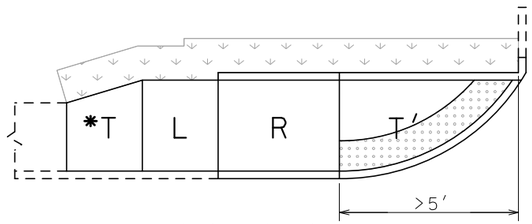
LENGTH (LF)		8			12			16			REMARKS
WIDTH (LF)		4	5	6	4	5	6	4	5	6	
TRUNCATED DOMES	SF	–	14.0	16.0	–	14.0	16.0	–	14.0	16.0	
CURB RAMP	SY	–	15.5	19.0	–	20.8	25.2	–	26.2	31.4	
CONC. SIDEWALK	SY	–	11.2	12.8	–	11.2	12.8	–	9.8	11.4	
TYPE 1 AGGREGATE	SY	–	26.7	31.8	–	32.0	38.0	–	36.0	42.8	
ADA LINEAR GRADING	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	



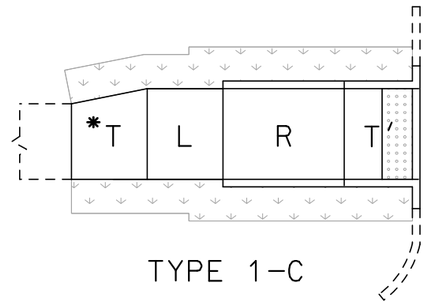
TYPE 1-A



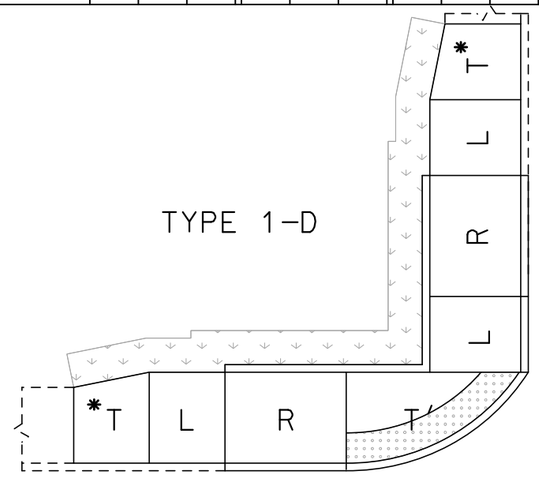
ISOMETRIC VIEW
TYPE 1-B



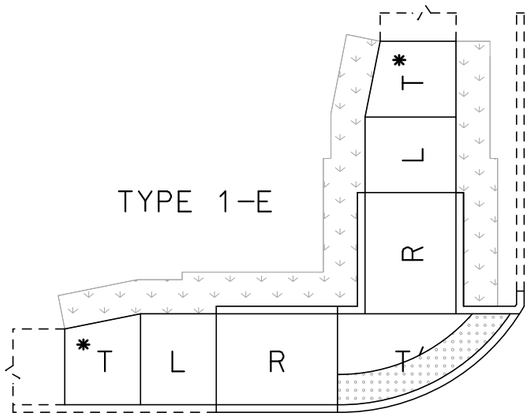
TYPE 1-B



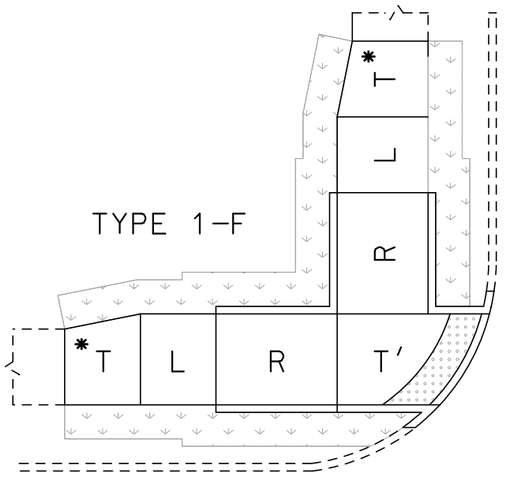
TYPE 1-C



TYPE 1-D



TYPE 1-E



TYPE 1-F

REVISED: 2022-05-18

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.

ADA LIBRARY TYPICAL

TYPE 1

PERPENDICULAR CURB RAMPS

TYPICAL SHEET 2 OF 8

STATE OF MISSOURI
ROBERT B. GREEN
NUMBER PE-25339
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED: 3/3/2025

ROUTE	STATE
160	MO
DISTRICT	SHEET NO.
SW	2

COUNTY: BARTON

JOB NO.: J7S3531B

CONTRACT ID.:

PROJECT NO.:

BRIDGE NO.:

DESCRIPTION	DATE

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

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

Bartlett & West
601 MONROE ST. SUITE 201 - JEFFERSON CITY, MO 65101
PHONE 573-634-3181
CERTIFICATE OF AUTHORITY NO. 000167 - ENGINEERING
WWW.BARTLETTWEST.COM

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	

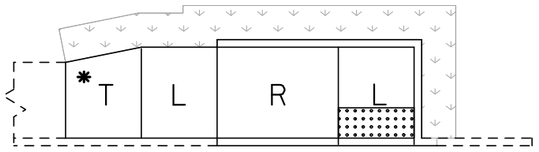
TYPE 2-E

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

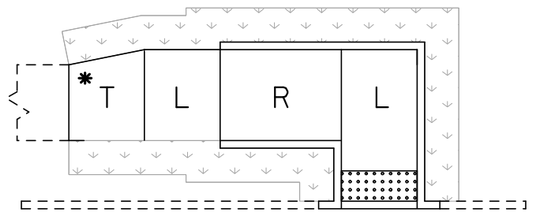
TYPE 2-F

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

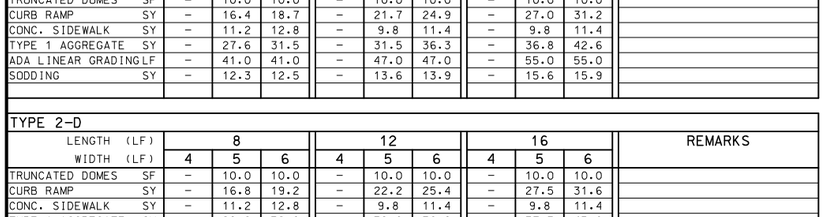
NOTE:
QUANTITIES ARE CALCULATED BY AREA AND MAY NOT MATCH EXACT FIELD CONDITIONS.



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 DOME

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

T – TRANSITION TO EXISTING SW

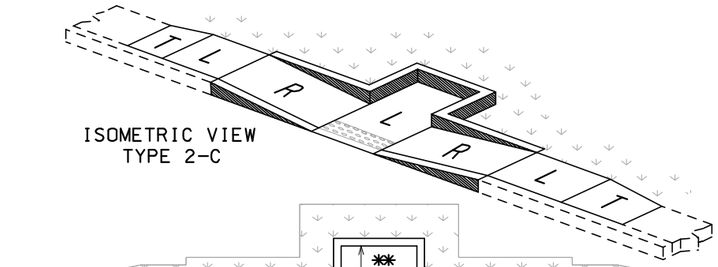
* – T IS STILL NEEDED EVEN IF THE EXISTING SIDEWALK IS THE SAME WIDTH AS THE NEW SIDEWALK.(IT WILL BLEND THE EXIST XSLOPE INTO THE NEW LANDING XSLOPE)

L – LANDING

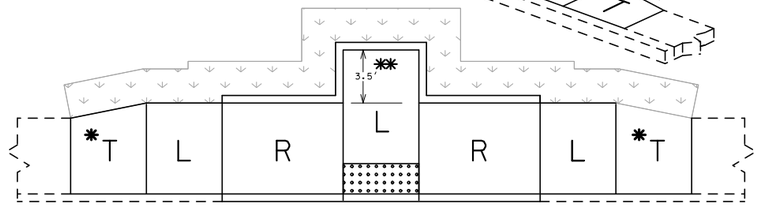
R – RAMP

– SOD SLOPE 6:1 MIN.

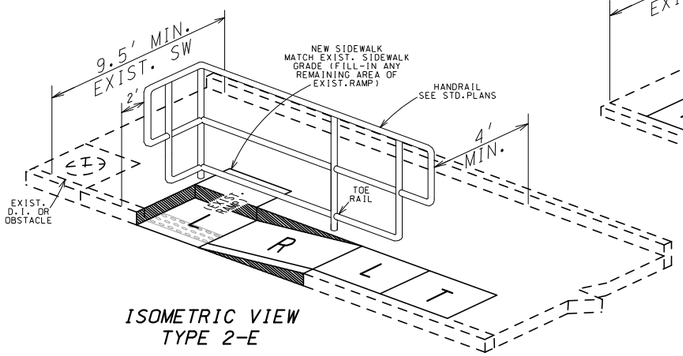
– CURB RAMP PAY LIMITS



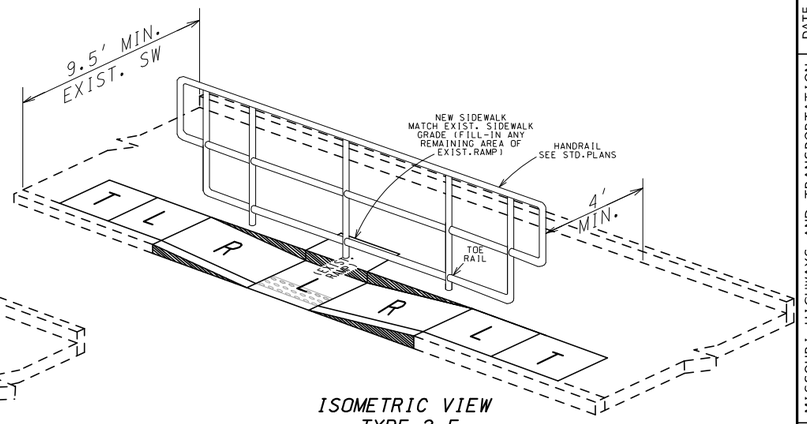
ISOMETRIC VIEW
TYPE 2-C



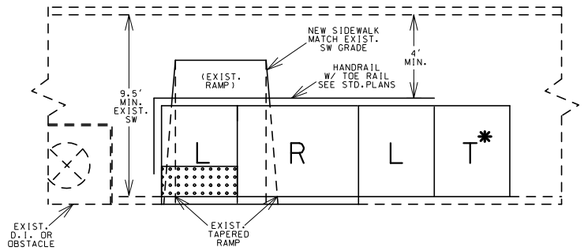
TYPE 2-C



ISOMETRIC VIEW
TYPE 2-E



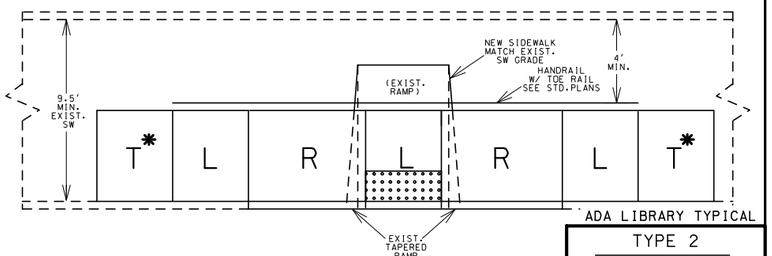
ISOMETRIC VIEW
TYPE 2-F



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



TYPE 2-F

SEE STANDARDS FOR HANDRAIL SPECS

REVISED: 2022-05-18

STATE OF MISSOURI
ROBERT B. GREEN
NUMBER PE-25339
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED: 3/3/2025

ROUTE	STATE
160	MO
DISTRICT	SHEET NO.
SW	2

COUNTY: BARTON
JOB NO.: J7S3531B
CONTRACT ID.:
PROJECT NO.:
BRIDGE NO.:

DESCRIPTION	DATE

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

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

Bartlett & West
601 MONROE ST. SUITE 201 - JEFFERSON CITY, MO 65101
PHONE 573-634-3181
CERTIFICATE OF AUTHORITY NO. 000167 - ENGINEERING
WWW.BARTLETTWEST.COM

TYPE 2
PARALLEL CURB RAMPS

TYPICAL SHEET 3 OF 8

pw://bartwest-pw.bentley.com:bartwest-pw-04/Documents/19000/19421.G50 - SW District ADA/OpenRoads Designer/plan_sheets/3_Final Plans/J7S3531B/002_TS_03_JS3531B_I5_ADA_TYPE2_PARALLEL1.dgn 4:02:53 PM 3/3/2025

PARALLEL - TYPE 2 (cont'd.)

TYPE 2-G

LENGTH (LF)	8			12			16			REMARKS
WIDTH (LF)	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)	8			12			16			REMARKS
WIDTH (LF)	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: 2022-05-18

T - TRANSITION TO EXISTING SW

L - LANDING

R - RAMP

- SOD SLOPE 6:1 MIN.

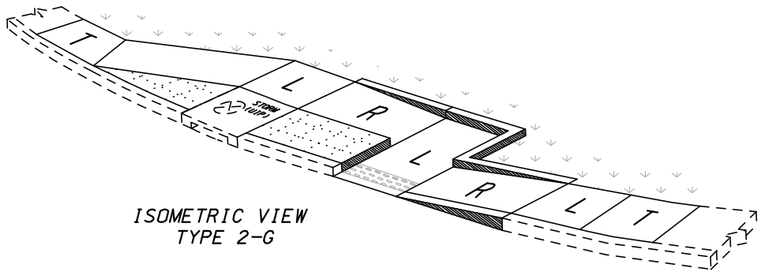
- TRUNCATED DOME LOCATION, IF DIST. IS <5' OR > 5'

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

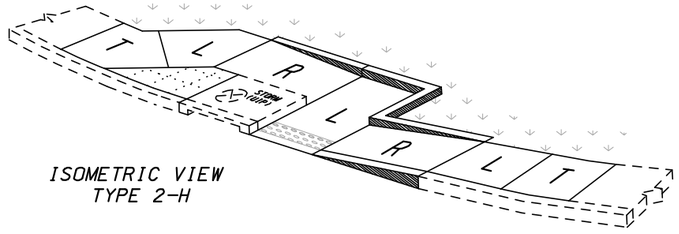
- CURB RAMP PAY LIMITS

- INCLUDED IN 4" CONC. SIDEWALK PAY LIMIT

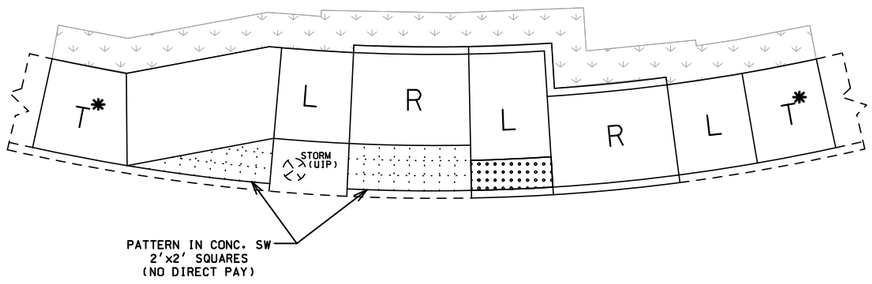
NOTE:
QUANTITIES ARE CALCULATED BY AREA AND MAY NOT MATCH EXACT FIELD CONDITIONS.



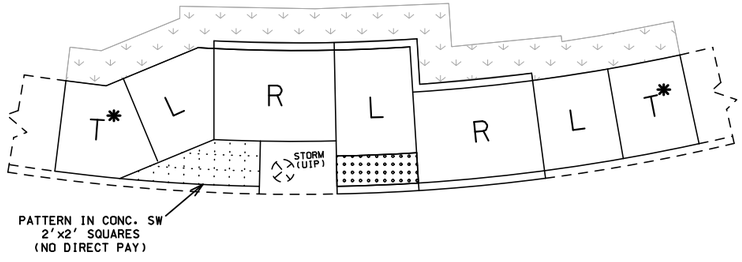
ISOMETRIC VIEW
TYPE 2-G



ISOMETRIC VIEW
TYPE 2-H



TYPE 2-G



TYPE 2-H

ADA LIBRARY TYPICAL

TYPE 2

PARALLEL CURB RAMPS

TYPICAL SHEET 4 OF 8

STATE OF MISSOURI
ROBERT B. GREEN
NUMBER PE-25339
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED SEALED AND DATED ELECTRONICALLY.

DATE PREPARED: 3/3/2025

ROUTE: 160 | STATE: MO
DISTRICT: SW | SHEET NO.: 2
COUNTY: BARTON
JOB NO.: J7S3531B
CONTRACT ID.:
PROJECT NO.:
BRIDGE NO.:

DESCRIPTION | DATE

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

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

Bartlett & West
601 MONROE ST. SUITE 201 - JEFFERSON CITY, MO 65101
PHONE 573-634-3181
CERTIFICATE OF AUTHORITY NO. 000167 - ENGINEERING
WWW.BARTLETTWEST.COM

DIAGONAL – TYPE 3

TYPE 3-A

LENGTH (LF)	8			12			16			REMARKS
WIDTH (LF)	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	
8"SW OR MED STRIP SY	–	3.0	2.2	–	3.0	2.2	–	3.0	2.2	

TYPE 3-B

LENGTH (LF)	8			12			16			REMARKS
WIDTH (LF)	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	
8"SW OR MED STRIP SY	–	1.5	1.5	–	1.5	1.5	–	1.5	1.5	

TYPE 3-C

LENGTH (LF)	8			12			16			REMARKS
WIDTH (LF)	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	
8"SW OR MED STRIP SY	–	1.0	1.6	–	1.0	1.6	–	1.0	1.6	

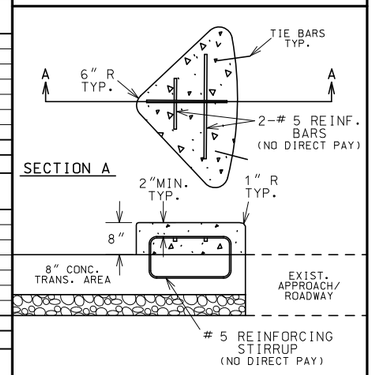
TYPE 3-D

LENGTH (LF)	8			12			16			REMARKS
WIDTH (LF)	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	
8"SW OR MED STRIP SY	–	1.0	0.8	–	1.0	0.8	–	1.0	0.8	

TYPE 3-E

LENGTH (LF)	8			12			16			REMARKS
WIDTH (LF)	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	
8"SW OR MED STRIP SY	–	1.6	1.6	–	1.6	1.6	–	1.6	1.6	

– DETAIL – 8" SIDEWALK OR 8" 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.

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

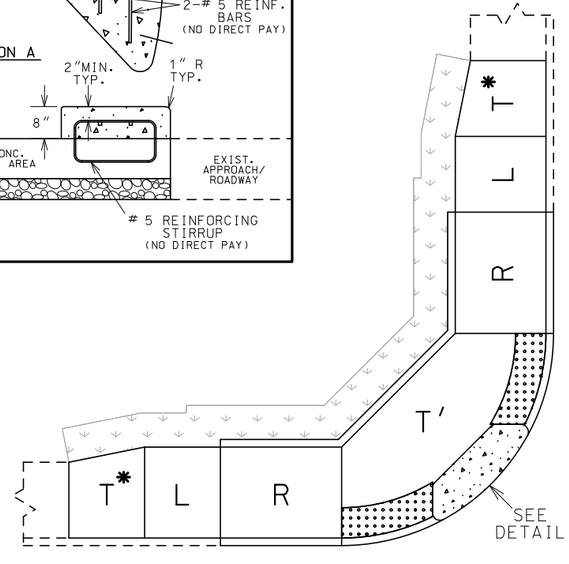
R – RAMP

– CURB RAMP PAY LIMITS

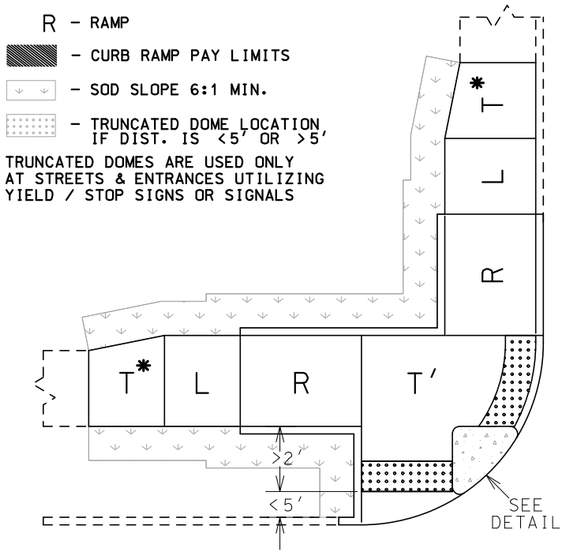
– SOD SLOPE 6:1 MIN.

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

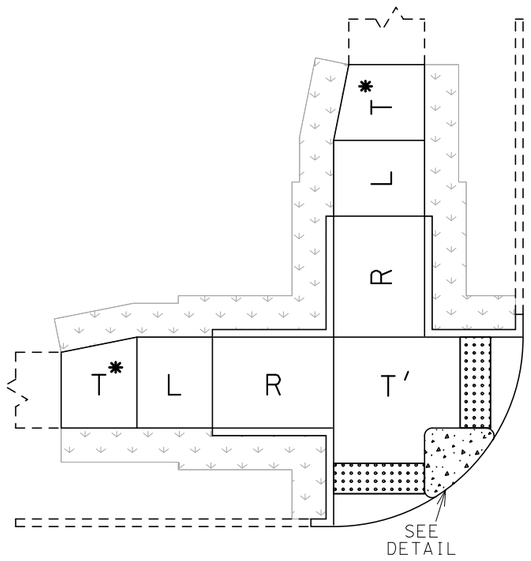
TRUNCATED DOMES ARE USED ONLY AT STREETS & ENTRANCES UTILIZING YIELD / STOP SIGNS OR SIGNALS



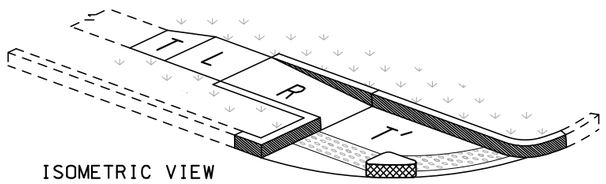
TYPE 3-A



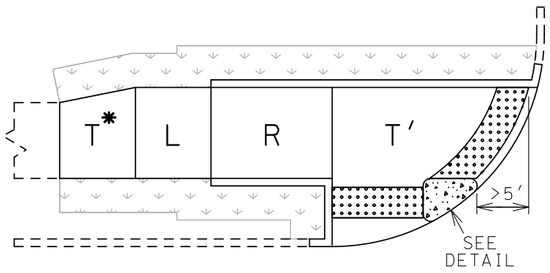
TYPE 3-B



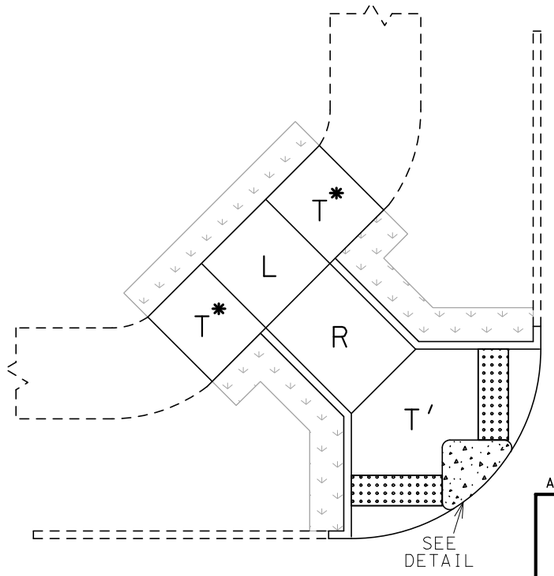
TYPE 3-C



ISOMETRIC VIEW
TYPE 3-D



TYPE 3-D



TYPE 3-E

ADA LIBRARY TYPICAL

TYPE 3
DIAGONAL CURB RAMPS

TYPICAL SHEET 5 OF 8

REVISED: 2022-05-18

ROBERT B. GREEN
NUMBER PE-25339
STATE OF MISSOURI
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED SEALED AND DATED ELECTRONICALLY.

DATE PREPARED: 3/3/2025
ROUTE: 160
STATE: MO
DISTRICT: SW
SHEET NO.: 2
COUNTY: BARTON
JOB NO.: J7S3531B
CONTRACT ID.:
PROJECT NO.:
BRIDGE NO.:

DESCRIPTION | DATE

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

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

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CERTIFICATE OF AUTHORITY NO. 000167 - ENGINEERING
WWW.BARTLETTWEST.COM

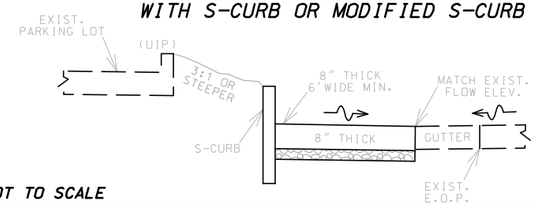
REVISED: 2022-05-16

NOTES FOR MODIFIED SIDEWALK:

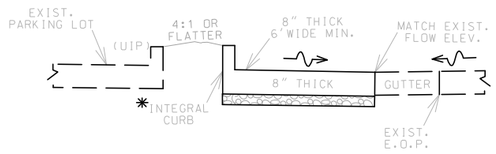
1. REMOVE EXIST. CURB & RAISED ISLAND WITHIN LIMITS SHOWN.
2. AREA INSIDE FINAL CURB TO BE REPAIRED OR REPLACED WITH EXISTING SURFACE MATERIAL. GRADE TO DRAIN.
3. CONSTRUCT 8" THICK CONC. SIDEWALK FLUSH WITH EXIST. CONC. PAVED APPROACH.
4. CONSTRUCT CURB ADJACENT TO MODIFIED SIDEWALK.
5. MODIFIED SIDEWALK 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



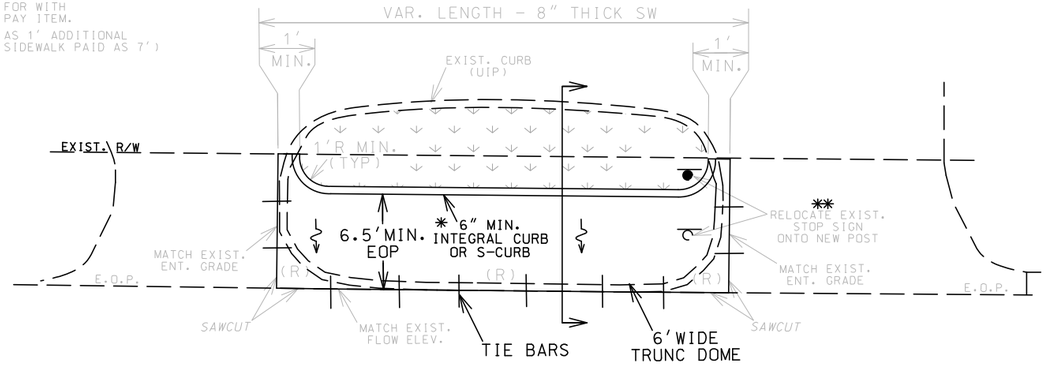
SECTION A-A
WITH INTEGRAL CURB



NOT TO SCALE

TYPICAL MODIFIED SIDEWALK
8" THICK

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

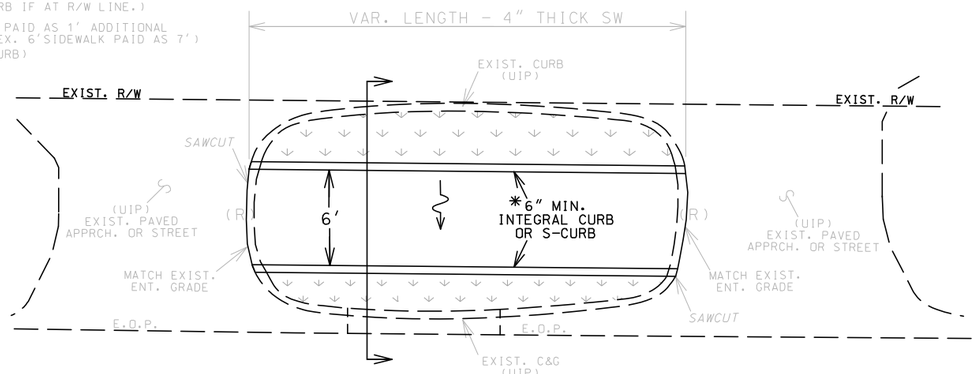


NOTES FOR CUT-THRU SIDEWALK:

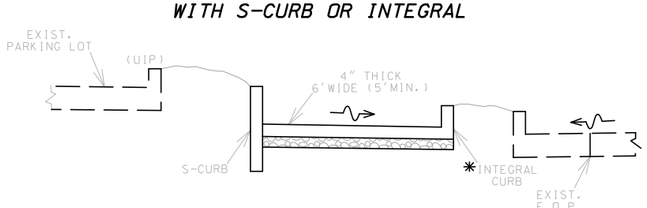
1. REMOVE EXIST. CURB & RAISED ISLAND WITHIN LIMITS SHOWN.
2. AREA INSIDE FINAL CURB TO BE REPAIRED OR REPLACED WITH EXISTING SURFACE MATERIAL. GRADE TO DRAIN.
3. CONSTRUCT 4" THICK CONC. SIDEWALK FLUSH WITH EXIST. CONC. PAVED APPROACH.
4. CONSTRUCT CURB ON BOTH SIDES ADJACENT TO SIDEWALK.
5. CUT-THRU 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



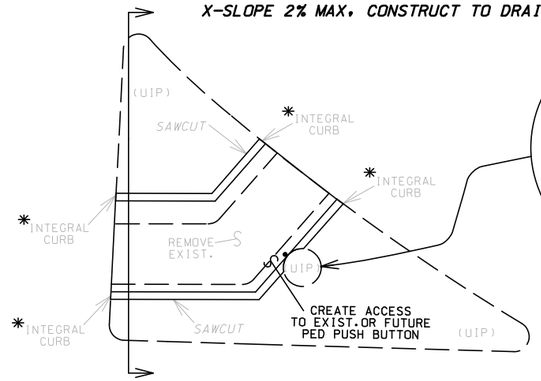
SECTION C-C
WITH S-CURB OR INTEGRAL

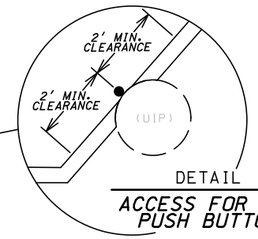


NOT TO SCALE

NOT TO SCALE

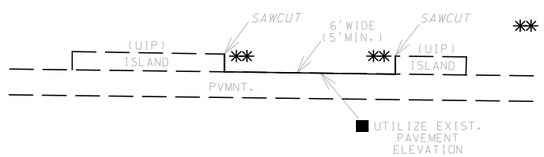
TYPICAL ISLAND CUT-THRU SIDEWALK
X-SLOPE 2% MAX. CONSTRUCT TO DRAIN





DETAIL
ACCESS FOR PED PUSH BUTTON

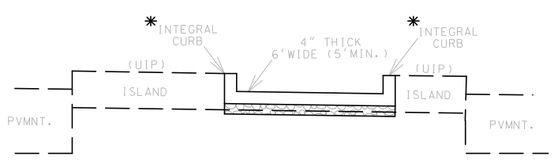
SECTION B-B
ISLAND CUT-THRU SIDEWALK FOR EXISTING 'PINNED-ON' ISLAND



■ 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 6 OF 8

STATE OF MISSOURI
ROBERT B. GREEN
NUMBER PE-25339
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED SEALED AND DATED ELECTRONICALLY.

DATE PREPARED: 3/3/2025
ROUTE: 160 | STATE: MO
DISTRICT: SW | SHEET NO.: 2
COUNTY: BARTON
JOB NO.: J7S3531B
CONTRACT ID.:
PROJECT NO.:
BRIDGE NO.:

DESCRIPTION	DATE

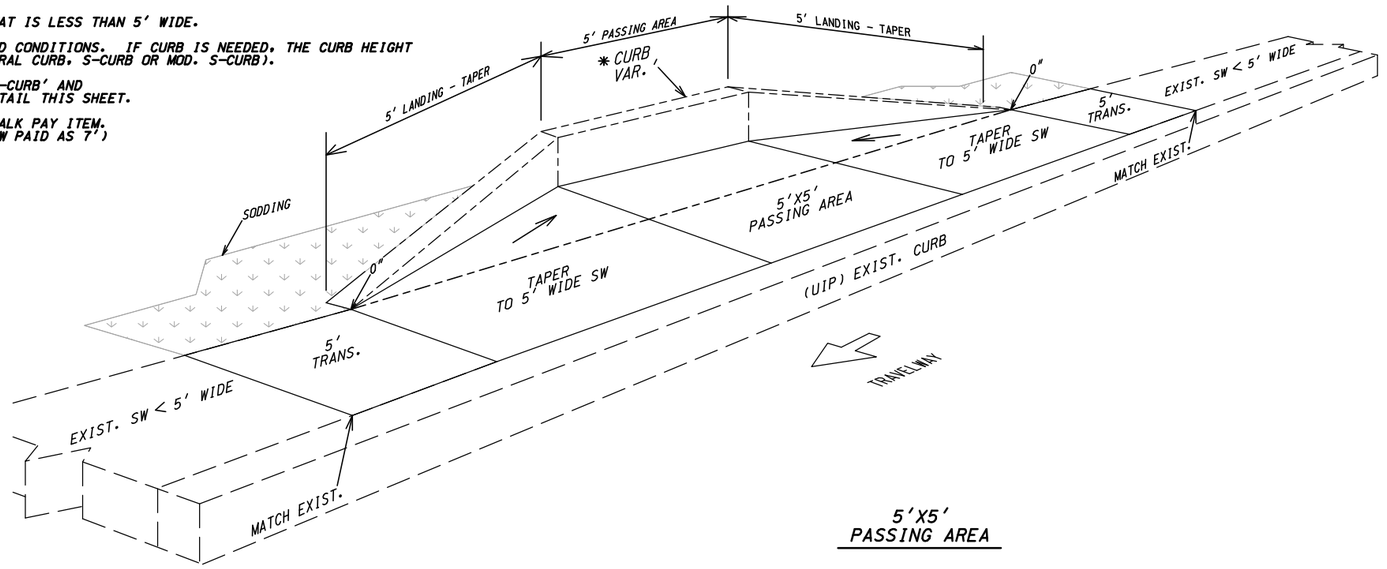
IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)
Bartlett & West
601 MONROE ST. SUITE 201 - JEFFERSON CITY, MO 65101
PHONE 573-634-3181
CERTIFICATE OF AUTHORITY NO. 000167 - ENGINEERING
WWW.BARTLETTWEST.COM

REVISED: 2024-01-18

NOTES:

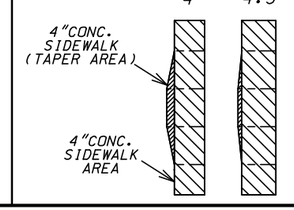
1. PASSING AREA REQUIRED EVERY 200' ON SIDEWALK THAT IS LESS THAN 5' WIDE.
* 2. CURB MAY OR MAY NOT BE NEEDED DEPENDING ON FIELD CONDITIONS. IF CURB IS NEEDED, THE CURB HEIGHT WILL VARY DEPENDING ON FIELD CONDITIONS. (INTEGRAL CURB, S-CURB OR MOD. S-CURB).
3. S-CURB OVER 12" TALL IS PAID FOR AS 'MODIFIED 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)



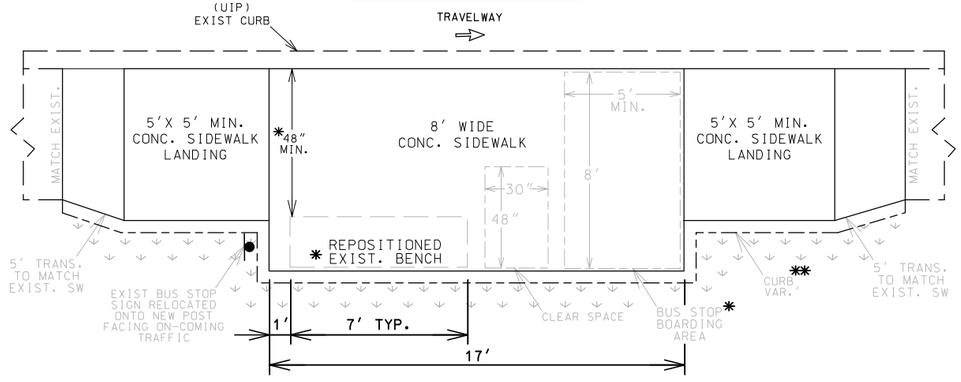
5'X5' PASSING AREA

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
MODIFIED S-CURB		LF	17.2	16.0
SODDING		SY	53.0	53.0
LINEAR GRADING		LF	25.0	25.0



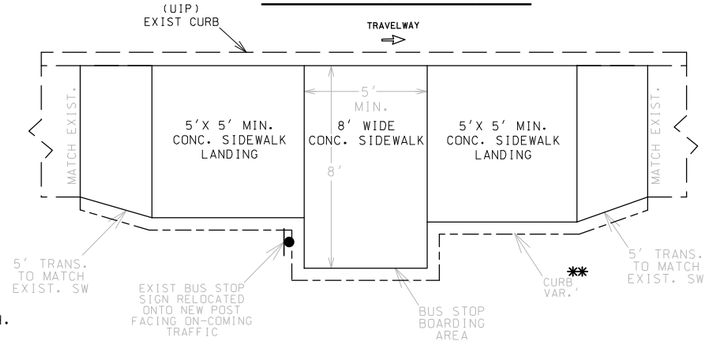
BUS STOP WITH BENCH

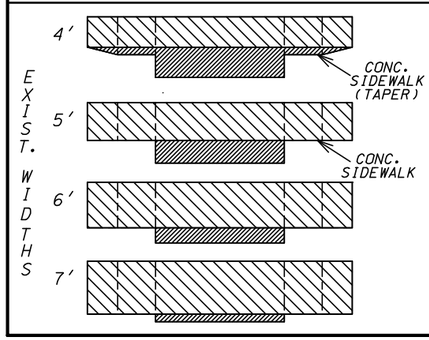


NOTES:

* 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)

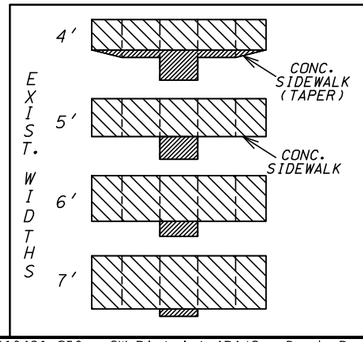
BUS STOP WITHOUT BENCH





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
MODIFIED 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
MODIFIED 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 7 OF 8

STATE OF MISSOURI
ROBERT B. GREEN
NUMBER PE-25339
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED
3/3/2025

ROUTE	STATE
160	MO
DISTRICT	SHEET NO.
SW	2

COUNTY
BARTON

JOB NO.
J7S3531B

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION	DATE

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

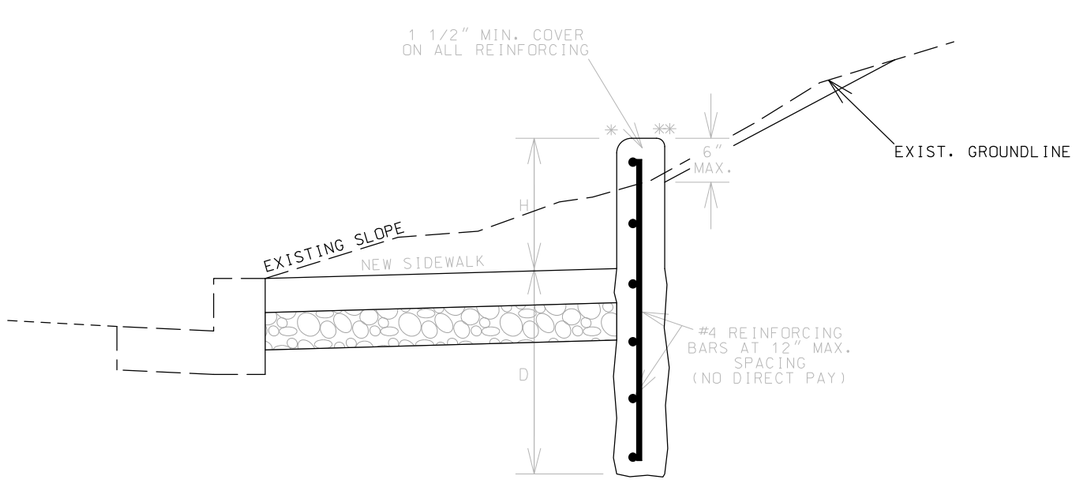
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

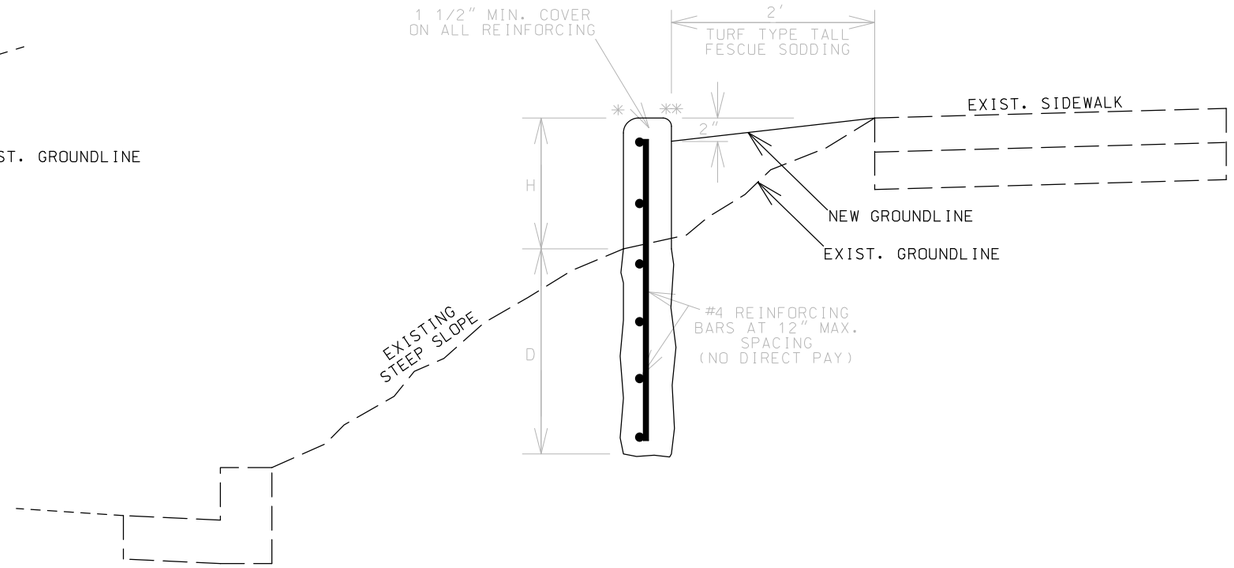
Bartlett & West
601 MONROE ST. SUITE 201 - JEFFERSON CITY, MO 65101
PHONE 573-634-3181
CERTIFICATE OF AUTHORITY NO. 000167 - ENGINEERING
WWW.BARTLETTWEST.COM

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

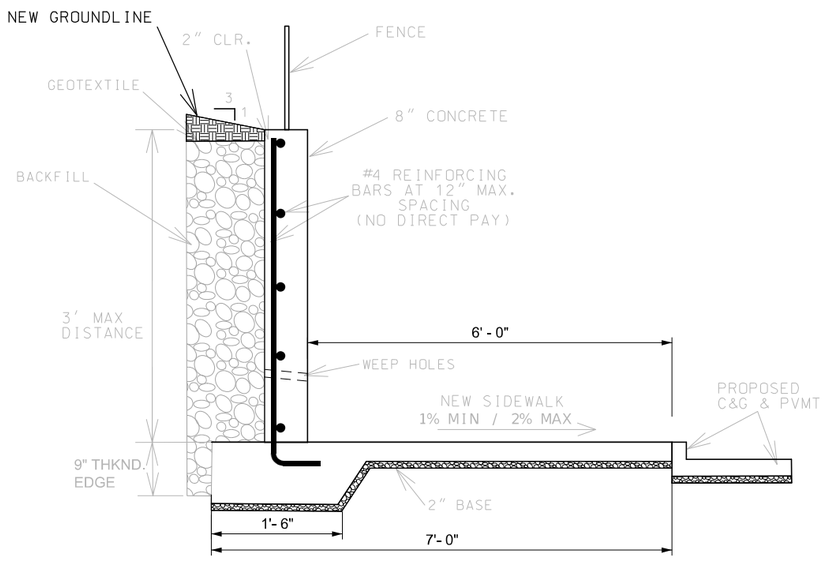
* ROUND TO 3/4" RADIUS
** ROUND TO 1/4" RADIUS
H = 2'-6" MAX. (30")
D = BURY DEPTH (FORMING NOT REQUIRED)
THIS SHALL BE 18 INCHES OR "H" WHICHEVER IS GREATER.
VERTICAL REINFORCING LENGTHS VARY AS NEEDED.
DEPTH MAY BE REDUCED IF KEYED 6" IN ROCK

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
8 OF 8

STATE OF MISSOURI
ROBERT B. GREEN
NUMBER PE-25339
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED SEALED AND DATED ELECTRONICALLY.

DATE PREPARED: 3/3/2025
ROUTE: 160 | STATE: MO
DISTRICT: SW | SHEET NO.: 2
COUNTY: BARTON
JOB NO.: J7S3531B
CONTRACT ID.:
PROJECT NO.:
BRIDGE NO.:

DESCRIPTION	DATE

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

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

Bartlett & West
601 MONROE ST. SUITE 201 - JEFFERSON CITY, MO 65101
PHONE 573-634-3181
CERTIFICATE OF AUTHORITY NO. 000167 - ENGINEERING
WWW.BARTLETTWEST.COM

REMOVAL OF IMPROVEMENTS (TABLE 1 OF 2)							
ROUTE	STA.	STA.	LOCATION	DESCRIPTION	AMOUNT	UNIT	REMARKS
160	1085+91.34	1086+23.62	LT	EXIST. SIDEWALK	13.6	SY	5' SAWCUT
160	1085+91.34	1086+28.86	LT	EXIST. MEDIAN	10.1	SY	
160	1085+91.35	1086+31.08	LT	EXIST. PAVEMENT	11.3	SY	
160	1085+91.36	1086+12.77	LT	EXIST. CURB	21.6	LF	
160	1086+03.35	1086+30.80	RT	EXIST. PAVEMENT	7.6	SY	
160	1086+03.35	1086+28.49	RT	EXIST. MEDIAN	19.9	SY	
160	1086+03.35	1086+28.94	RT	EXIST. CURB	69.4	LF	
160	1086+06.66	1086+29.67	LT	EXIST. CURB	55.1	LF	
160	1086+59.37	1086+81.11	RT	EXIST. PAVEMENT	6.0	SY	
160	1086+59.92	1086+82.78	LT	EXIST. PAVEMENT	6.1	SY	
160	1086+61.06	1086+81.20	RT	EXIST. CURB	26.0	LF	
160	1086+62.85	1086+82.77	LT	EXIST. CURB	25.2	LF	
160	1086+76.48	1086+86.36	LT	EXIST. SIDEWALK	3.6	SY	4' SAWCUT
160	1086+76.49	1086+88.07	RT	EXIST. SIDEWALK	5.1	SY	4' SAWCUT
160	1093+48.40	1093+93.03	RT	EXIST. MEDIAN	67.7	SY	
160	1093+49.52	1093+70.92	RT	EXIST. CURB	22.7	LF	
160	1093+49.60	1093+95.35	RT	EXIST. PAVEMENT	12.4	SY	
160	1093+56.22	1093+96.76	LT	EXIST. SIDEWALK	36.2	SY	
160	1093+57.27	1093+97.68	LT	EXIST. CURB	49.9	LF	
160	1093+62.90	1093+68.90	LT	EXIST. PAVEMENT	1.3	SY	
160	1093+76.51	1093+93.18	RT	EXIST. CURB	24.3	LF	
160	1093+95.16	1093+99.93	LT	EXIST. PAVEMENT	1.5	SY	
160	1094+54.28	1094+58.63	LT	EXIST. PAVEMENT	1.4	SY	
160	1094+56.34	1094+85.45	LT	EXIST. CURB	46.3	LF	
160	1094+57.42	1044+89.97	LT	EXIST. SIDEWALK	28.9	SY	
160	1094+58.58	1094+88.12	RT	EXIST. PAVEMENT	11.9	SY	
160	1094+60.35	1094+88.12	RT	EXIST. CURB	41.7	LF	
160	1094+61.26	1095+11.51	RT	EXIST. SIDEWALK	47.3	SY	
160	1094+79.45	1094+85.45	LT	EXIST. PAVEMENT	1.4	SY	
160	1098+46.12	1098+73.73	RT	EXIST. SIDEWALK	15.9	SY	4' SAWCUT
160	1098+46.13	1098+65.18	RT	EXIST. EARTH	3.0	SY	
160	1098+51.13	1098+77.41	RT	EXIST. CURB	30.2	LF	
160	1098+51.13	1098+79.45	RT	EXIST. PAVEMENT	7.1	SY	
160	1098+55.66	1098+64.94	LT	EXIST. MEDIAN	5.0	SY	
160	1098+55.66	1098+61.66	LT	EXIST. PAVEMENT	1.4	SY	
160	1098+55.66	1098+61.66	LT	EXIST. CURB	6.2	LF	
160	1098+56.12	1098+68.88	RT	EXIST. EARTH	2.4	SY	
160	1098+68.27	1098+75.75	LT	EXIST. SIDWALK	10.7	SY	4' SAWCUT
160	1098+72.78	1098+79.74	LT	EXIST. EARTH	4.3	SY	
				TOTALS	NO DIRECT PAY		
NOTE: REMOVALS OF IMPROVEMENTS TABLES ARE FOR INFORMATION ONLY. QUANTITIES ARE PAID FOR UNDER LINEAR GRADING CLASS 1 FOR ADA FACILITIES							

CONCRETE LIGHTING FOUNDATION					
ROUTE	STA.	OFFSET	LOCATION	EACH	REMARKS
160	1085+13.50	34.5'	LT	1.0	
160	1112+54.30	21.5'	LT	1.0	
			TOTALS	2.0	
			USE	2.0	

CONTRACTOR FURNISHED SURVEYING AND STAKING
TOTAL = 1 LUMP SUM

MOBILIZATION
TOTAL = 1 LUMP SUM

REMOVAL OF IMPROVEMENTS (TABLE 2 OF 2)							
ROUTE	STA.	STA.	LOCATION	DESCRIPTION	AMOUNT	UNIT	REMARKS
160	1098+73.71	1098+76.36	RT	EXIST. EARTH	1.3	SY	
160	1098+78.63	1098+80.43	LT	EXIST. CURB	6.1	LF	
160	1098+79.25	1098+82.43	LT	EXIST. PAVEMENT	1.4	SY	
160	1099+28.76	1099+30.84	LT	EXIST. PAVEMENT	1.3	SY	
160	1099+30.76	1099+31.76	LT	EXIST. CURB	6.0	LF	
160	1099+31.32	1099+40.85	LT	EXIST. EARTH	7.0	SY	
160	1099+41.76	1099+45.69	LT	EXIST. SIDWALK	2.5	SY	4' SAWCUT
160	1099+42.33	1099+46.31	LT	EXIST. RAMP	1.6	SY	4' SAWCUT
160	1102+64.66	1102+88.24	LT	EXIST. SIDEWALK	18.7	SY	5' SAWCUT
160	1102+69.21	1102+75.21	LT	EXIST. CURB	6.1	LF	
160	1102+69.22	1102+75.22	LT	EXIST. PAVEMENT	1.3	SY	
160	1102+69.40	1102+96.13	RT	EXIST. PAVEMENT	7.4	SY	
160	1102+69.41	1102+84.91	RT	EXIST. MEDIAN	9.8	SY	
160	1102+69.41	1102+94.22	RT	EXIST. CURB	31.6	LF	
160	1102+75.78	1102+83.27	LT	EXIST. EARTH	1.3	SY	
160	1102+88.09	1102+92.04	LT	EXIST. CURB	6.8	LF	
160	1102+89.05	1102+94.03	LT	EXIST. PAVEMENT	1.4	SY	
160	1103+20.19	1103+46.83	LT	EXIST. PAVEMENT	9.5	SY	
160	1103+22.19	1103+46.81	LT	EXIST. CURB	40.6	LF	
160	1103+22.69	1103+46.81	LT	EXIST. SIDEWALK	14.8	SY	4' SAWCUT
160	1108+57.19	1108+71.79	LT	EXIST. SIDEWALK	15.0	SY	4' SAWCUT
160	1108+57.29	1108+71.79	LT	EXIST. CURB	26.7	LF	
160	1108+66.28	1108+70.13	RT	EXIST. SIDEWALK	6.9	SY	
160	1108+65.44	1108+72.49	RT	EXIST. PAVEMENT	1.5	SY	
160	1108+65.45	1108+72.49	RT	EXIST. CURB	7.8	LF	
160	1109+12.81	1109+20.97	LT	EXIST. PAVEMENT	2.4	SY	
160	1109+15.07	1109+21.29	LT	EXIST. CURB	10.2	LF	
160	1109+16.69	1109+32.39	LT	EXIST. SIDEWALK	60.3	SY	4' SAWCUT
160	1112+44.02	1112+62.21	LT	EXIST. SIDEWALK	7.7	SY	4' SAWCUT
160	1112+44.08	1112+49.16	LT	EXIST. CURB	5.1	LF	
160	1112+44.02	1112+70.63	LT	EXIST. CURB	39.1	LF	
160	1112+44.02	1112+20.08	LT	EXIST. EARTH	15.1	SY	
160	1112+44.09	1112+72.64	LT	EXIST. PAVEMENT	9.8	SY	
160	1136+90.09	1137+02.64	RT	EXIST. SIDEWALK	4.0	SY	3' SAWCUT
160	1137+42.91	1138+46.77	RT	EXIST. SIDEWALK	41.5	SY	3' SAWCUT
160	1138+33.90	1138+80.35	RT	EXIST. CURB	45.6	LF	
160	1139+14.36	1139+36.95	RT	EXIST. PAVEMENT	4.6	SY	
160	1139+14.64	1139+35.76	RT	EXIST. CURB	20.7	LF	
160	1139+16.97	1139+32.23	RT	EXIST. EARTH	2.3	SY	
160	1139+66.96	1140+51.73	RT	EXIST. CURB	88.5	LF	
160	1139+69.22	1140+72.31	RT	EXIST. EARTH	45.0	SY	
160	1140+68.67	1140+73.47	RT	EXIST. CURB	11.9	LF	
160	1140+69.04	1140+75.88	RT	EXIST. PAVEMENT	2.8	SY	
				TOTALS	NO DIRECT PAY		
NOTE: REMOVALS OF IMPROVEMENTS TABLES ARE FOR INFORMATION ONLY. QUANTITIES ARE PAID FOR UNDER LINEAR GRADING CLASS 1 FOR ADA FACILITIES							

SUMMARY OF QUANTITIES
SHEET 1 OF 4

STATE OF MISSOURI
ROBERT B. GREEN
NUMBER PE-25339
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED
4/4/2025

ROUTE	STATE
160	MO
DISTRICT	SHEET NO.
SW	3

COUNTY
BARTON

JOB NO.
J7S3531B

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION	DATE

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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

Bartlett & West
601 MONROE ST. SUITE 201 - JEFFERSON CITY, MO 65101
PHONE 573-634-3181
CERTIFICATE OF AUTHORITY NO. 000167 - ENGINEERING
WWW.BARTLETTWEST.COM

TRUNCATED DOMES, CURB RAMP, SIDEWALK, TYPE 1 AGGREGATE, ADA LINEAR GRADING, TURF TYPE TALL FESCUE SODDING, CURBS

SHEET	STATION	STATION	LOCATION	LT RT	TRUNC. DOMES	CURB RAMP				SIDEWALK										4" TYPE 1 AGGR.	ADA LINEAR GRADING	SOD	S-CURB			REMARKS
										S.W. WIDTH	✳ PAY WIDTH	4" SDWLK.	4" CUT THRU	4" BUS STOP	4" PASS AREA	8" SDWLK.	8" MODIFD. SDWLK.	INTEGRAL CURB				LESS/EQ 6" (1"-6")	OVER 6" (6"-12")	MODIFIED (12"-30")	
					SF	LENGTH	WIDTH	TYPE	SY	LF	LF	SY	SY	SY	SY	SY	SY	✳ LF		SY	LF	SY	LF	LF	LF	
1	1085+89.03	1086+07.03	RT 160	LT	9.0	13	6	N/A	9.0	6	7	2.8	0.0	0.0	0.0	0.0	0.0	0.0		11.8	20.0	6.6				
1	1086+01.28	1086+27.28	RT 160	RT	18.0	10	6	2-A	17.6	6	8	20.8	0.0	0.0	0.0	0.0	0.0	29.0		40.0	40.0	10.0				
1	1086+07.03	1086+26.19	RT 160	LT	10.0	12	6	N/A	8.4	6	7	8.9	0.0	0.0	0.0	0.0	0.0	0.0		17.3	28.0	8.0				
1	1086+59.30	1086+85.92	RT 160	RT	13.0	20	6	N/A	10.3	6	8	8.3	0.0	0.0	0.0	0.0	0.0	20.0		19.7	28.0	8.0				
1	1086+59.80	1086+84.04	RT 160	LT	14.0	15	6	N/A	14.0	6	7	1.9	0.0	0.0	0.0	0.0	0.0	0.0		15.9	25.0	7.5				
2	1093+40.43	1093+66.56	RT 160	RT	13.0	8	6	2-C	9.6	6	8	10.3	0.0	0.0	0.0	0.0	0.0	18.0		20.9	66.0	14.3				
2	1093+53.67	1093+87.26	RT 160	LT	10.0	8	6	N/A	4.2	6	8	30.5	0.0	0.0	0.0	0.0	0.0	109.0		40.8	62.0	13.6				
2	1093+63.77	1093+91.06	RT 160	RT	14.0	8	6	N/A	10.0	6	8	21.2	0.0	0.0	0.0	0.0	0.0	33.0		33.0	42.9	10.4				
2	1093+87.26	1093+95.29	RT 160	LT	10.0	5	6	N/A	4.6	6	8	9.7	0.0	0.0	0.0	0.0	0.0	28.2		15.9	21.1	6.8				
2	1094+54.15	1094+71.66	RT 160	LT	11.0	6	6	N/A	8.2	6	7	24.4	0.0	0.0	0.0	0.0	0.0	61.5		36.0	66.0	14.3				18.7
2	1094+57.64	1094+79.14	RT 160	RT	14.0	9	6	2-C	10.9	6	8	16.4	0.0	0.0	0.0	0.0	0.0	22.3		28.5	78.0	16.3				
2	1094+71.24	1094+87.75	RT 160	LT	10.0	8	6	N/A	10.9	6	7	11.8	0.0	0.0	0.0	0.0	0.0	29.3		24.3	21.1	6.8				
2	1094+79.14	1095+09.37	RT 160	RT	13.0	7	6	2-C	8.5	6	8	20.8	0.0	0.0	0.0	0.0	0.0	68.7		33.1	39.0	9.8				
3	1098+38.36	1098+74.17	RT 160	RT	10.0	13	6	1-D	16.7	6	7	10.0	0.0	0.0	0.0	0.0	0.0	0.0		26.7	40.0	10.0				
3	1098+53.97	1098+71.57	RT 160	LT	10.0	5	6	2-B	5.7	6	8	11.5	0.0	0.0	0.0	0.0	0.0	23.9		18.5	45.0	10.8	29.4			
3	1098+66.57	1098+77.69	RT 160	LT	10.0	3	6	2-C	6.0	6	8	11.3	0.0	0.0	0.0	0.0	0.0	28.7		18.9	18.5	6.4	11.8			
3	1099+28.60	1099+43.38	RT 160	LT	10.0	5	6	1-C	5.6	6	8	7.8	0.0	0.0	0.0	0.0	0.0	20.2		14.5	14.8	5.8				
3	1102+62.49	1102+83.59	RT 160	LT	10.0	10	6	1-D	11.7	6	7	5.3	0.0	0.0	0.0	0.0	0.0	22.6		18.3	20.0	6.6	12.4			
3	1102+67.75	1102+91.56	RT 160	RT	10.0	14	6	2-A	14.6	6	8	7.3	0.0	0.0	0.0	0.0	0.0	30.8		23.6	20.0	6.6				
3	1102+79.58	1102+89.70	RT 160	LT	12.0	5	6	2-C	7.0	6	7	6.6	0.0	0.0	0.0	0.0	0.0	9.5		14.1	19.8	6.6	7.0			
3	1103+20.50	1103+44.60	RT 160	LT	18.0	14	6	2-C	18.0	6	7	11.0	0.0	0.0	0.0	0.0	0.0	26.4		30.5	39.7	9.9				
4	1108+55.07	1108+78.03	RT 160	LT	20.0	5	6	3-A	11.5	6	7	13.4	0.0	0.0	0.0	0.0	0.0	29.3		26.5	42.0	10.3				
4	1108+64.26	1108+69.37	RT 160	RT	12.0	8	6	1-C	5.5	6	6	8.4	0.0	0.0	0.0	0.0	0.0	28.2		13.9	15.0	5.8				
4	1109+13.36	1109+35.25	RT 160	LT	12.0	5	6	1-C	5.6	6	8	8.9	0.0	0.0	0.0	0.0	0.0	30.6		16.2	15.1	5.8				
4	1112+41.86	1112+68.44	RT 160	LT	10.0	8	6	1-B	9.0	6	8	15.4	0.0	0.0	0.0	0.0	0.0	0.0		24.4	39.0	9.8	34.0			
5	1136+90.08	1137+02.64	RT 160	RT	0.0	N/A	N/A	N/A		5	6	1.9	0.0	0.0	0.0	0.0	6.7	16.6		8.6	12.0	5.3				
5	1137+42.90	1138+86.77	RT 160	RT	0.0	24	5	1-C	7.1	5	6	72.6	0.0	0.0	0.0	0.0	0.0	0.0		79.7	144.0	27.3	148.0			
5	1139+14.36	1139+36.95	RT 160	RT	0.0	N/A	N/A	N/A	0.0	5	6	12.9	0.0	0.0	0.0	0.0	0.0	27.9		12.9	19.0	6.5				
5	1139+67.99	1140+73.13	RT 160	RT	12.0	24	5	1-C	8.6	5	6	48.8	0.0	0.0	0.0	0.0	0.0	0.0		57.4	104.0	20.6	89.2			
TOTAL					315.0	--	--	--	258.8	--	--	440.9	0.0	0.0	0.0	0.0	6.7	✳		742.3	1145.0	286.5	331.8	0.0	18.7	
USE					315	--	--	--	258.8	--	--	440.9				6.7		✳		743	1145	287	332	0	19	

QTY IS INCLUDED IN 8" SW FOR PINNED-ON ISLANDS, IF NEED PVMNT REPAIR UNDERNEATH.
SOD IS ESTIMATED AT 2.25' FOR CURB RAMP AREAS AND AT 1.5' FOR LONG SIDEWALK RUNS.

✳ PAY WIDTH INCLUDES INTEGRAL CURB CONC. WIDTH/HEIGHT. SEE TYPICAL SHEET 1 FOR ALL PAY ITEM LIMITS.

TEMPORARY EROSION AND SEDIMENT CONTROL DEVICES

ROUTE	STA.	LOCATION	SILT FENCE	CURB INLET CHECK	ROCK DITCH CHECK	SEDIMENT REMOVAL	REMARKS
			LF	EA	LF	CY	
160	1085+91.34	LT		1		1.0	
160	1086+00.69	RT		1		1.0	
160	1086+59.37	RT	30	1		1.3	
160	1086+59.92	LT	30			0.3	
160	1093+55.98	LT		1		1.0	
160	1094+52.66	LT		1		1.0	
160	1094+58.58	RT		1		1.0	
160	1098+46.13	RT	30			0.3	
160	1098+55.38	LT		1		1.0	
160	1099+28.84	LT	45	1		1.5	
160	1102+64.66	LT	65	1		1.7	
160	1102+69.45	RT		1		1.0	
160	1103+20.30	LT	30	1		1.3	
160	1108+57.19	LT	30	2		2.3	
160	1108+65.44	RT	35			0.4	
160	1109+12.81	LT	20		5	5.2	
160	1112+44.14	LT	35	1	6	7.4	
160	1136+40.49	RT		1	3	4.0	
160	1138+15.51	RT	140	2	3	6.4	
160	1139+26.51	RT		2	3	5.0	
160	1140+22.50	RT	105	1	3	5.1	
TOTAL			595	20	23	49.2	
USE			595	20	23	49	

NOTE: SEDIMENT REMOVAL IS BASED ON 1 CY PER DITCH CHECK,
1 CY PER INLET CHECK AND 1 CY PER 100 LINEAR FEET OF SILT FENCE.

CURB AND GUTTER

ROUTE	STA.	STA.	LOCATION	TYPE 5 AGGREGATE FOR BASE (4 IN. THICK)	TYPE B CURB AND GUTTER	REMARKS
				SY	LF	
160	1085+89.06	1086+28.69	LT	13.3	48.0	
160	1086+01.24	1086+28.76	RT	9.4	34.0	
160	1086+57.32	1086+80.48	LT	6.9	25.0	
160	1086+57.12	1086+79.09	RT	7.5	27.0	
160	1093+47.43	1093+93.38	RT	16.7	60	
160	1093+60.63	1093+66.63	LT	1.7	6.0	
160	1093+92.81	1093+97.55	LT	1.8	6.5	
160	1094+52.09	1094+83.26	LT	11.9	42.8	
160	1094+56.39	1094+85.93	RT	13.6	49.0	
160	1098+48.94	1098+77.04	RT	10.6	38.0	
160	1098+53.47	1098+59.47	LT	1.7	6.1	
160	1098+77.06	1098+80.24	LT	1.7	6.1	
160	1099+26.57	1099+28.65	LT	1.7	6.0	
160	1102+67.03	1102+73.03	LT	1.7	6.0	
160	1102+67.21	1102+93.94	RT	9.6	34.6	
160	1102+86.86	1102+91.84	LT	1.9	6.7	
160	1103+17.19	1103+44.64	LT	12.8	45.9	
160	1108+55.12	1108+80.58	LT	7.8	28.0	
160	1108+63.25	1108+70.28	RT	2.2	8.0	
160	1109+10.62	1109+19.10	LT	3.1	11.0	
160	1110+41.91	1112+70.45	LT	12.7	45.6	
160	1140+68.67	1140+75.88	RT	4.7	12.0	
TOTALS				154.8	552.3	
USE				155	553	

SUMMARY OF QUANTITIES
SHEET 2 OF 4

STATE OF MISSOURI
ROBERT B. GREEN
NUMBER PE-25339
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED
4/21/2025

ROUTE	STATE
160	MO

DISTRICT	SHEET NO.
SW	3

COUNTY
BARTON

JOB NO.
J7S3531B

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

DESCRIPTION	DATE

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

Bartlett & West
601 MONROE ST. SUITE 201 - JEFFERSON CITY, MO 65101
PHONE 573-634-3181
CERTIFICATE OF AUTHORITY NO. 000167 - ENGINEERING
WWW.BARTLETTWEST.COM

PAVEMENT MARKING (PERMANENT)							
ROUTE	LOCATION	DESCRIPTION OF LOCATION	PREFORMED THERMOPLASTIC PAVEMENT MARKING, 30 IN. WHITE MIDBLOCK	PREFORMED THERMOPLASTIC STOP BAR 24 IN. WHITE	REMOVALS FOR PREFORMED THERMOPLASTIC PAVEMENT MARKING, 30 IN. WHITE MIDBLOCK	REMOVALS FOR PREFORMED THERMOPLASTIC PAVEMENT MARKING, 6 IN. WHITE CROSS WALK LINE	REMARKS
			(EA)	FT	(EA)	FT	
160	RT/LT	WALNUT	17		6		
160	RT/LT	GULF	32	93		558	
160	RT/LT	BROADWAY	14				
160	RT/LT	POPLAR	12				
160	RT/LT	GRAND	12				
		TOTALS	87	93	6	558	
		USE	87	93	6	558	
NOTE: SEE SIGNAL PLANS FOR ALL PAVEMENT MARKINGS							

DRAINAGE STRUCTURES, PIPES, AND END SECTIONS				
RTE	STA	LOCATION	CURVED VANE GRATE AND FRAME 2' X 2'	REMARKS
			EA	
160	1086+00.36	LT	1.0	
		TOTALS	1.0	
		USE	1	
PRECAST LIDS ARE INCLUDED IN PER FT QUANTITY FOR INLETS				

PAVED APPROACH					
ROUTE	STA.	LOCATION	TYPE 5 AGGREGATE FOR BASE (4 IN. THICK)	PAVED APPROACH, 8 IN.	REMARKS
			SY	SY	
160	1136+71.35	RT	46.2	46.2	
160	1137+22.82	RT	49.7	49.7	
160	1139+00.63	RT	39.2	39.2	
160	1139+52.46	RT	48.1	48.1	
TOTALS			183.2	183.2	
USE			183.2	183.2	

CONCRETE MEDIAN						
ROUTE	STA.	STA.	LOCATION	CONCRETE MEDIAN (6 IN.)	TYPE 1 AGG FOR BASE (4 IN. THICK)	REMARKS
				SY	SY	
160	1094+75.63	1094+78.91	RT	0.5	0.5	
160	1108+69.84	1108+74.07	LT	0.8	0.8	
			TOTALS	1.3	1.3	
			USE	1.3	1	

SUMMARY OF QUANTITIES
SHEET 3 OF 4

STATE OF MISSOURI
ROBERT B. GREEN
NUMBER PE-25339
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED
4/21/2025

ROUTE	STATE
160	MO
DISTRICT	SHEET NO.
SW	3

COUNTY
BARTON

JOB NO.
J7S3531B

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION	DATE

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

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

Bartlett & West
601 MONROE ST. SUITE 201 - JEFFERSON CITY, MO 65101
PHONE 573-634-3181
CERTIFICATE OF AUTHORITY NO. 000167 - ENGINEERING
WWW.BARTLETTWEST.COM

SIGN	SIZE IN.	AREA SQ.FT.	QTY EACH	TOTAL AREA SQ.FT.	QTY RELOC EACH	TOTAL RELOC SQ.FT.	SIGN NUM.	DESCRIPTION
WARNING SIGNS								
WO1-1L	48X48	16.00						TURN (SYMBOL LEFT)
WO1-1R	48X48	16.00						TURN (SYMBOL RIGHT)
WO1-2L	48X48	16.00						CURVE (SYMBOL LEFT)
WO1-2R	48X48	16.00						CURVE (SYMBOL RIGHT)
WO1-3L	48X48	16.00						REVERSE TURN (SYMBOL LEFT)
WO1-3R	48X48	16.00						REVERSE TURN (SYMBOL RIGHT)
WO1-4L	48X48	16.00						REVERSE CURVE (SYMBOL LEFT)
WO1-4R	48X48	16.00						REVERSE CURVE (SYMBOL RIGHT)
WO1-4bL	48X48	16.00						DOUBLE ARROW REVERSE CURVE (SYMBOL LEFT)
WO1-4bR	48X48	16.00						DOUBLE ARROW REVERSE CURVE (SYMBOL RIGHT)
WO1-4cL	48X48	16.00						TRIPLE ARROW REVERSE CURVE (SYMBOL LEFT)
WO1-4cR	48X48	16.00						TRIPLE ARROW REVERSE CURVE (SYMBOL RIGHT)
WO1-6	60X30	12.50						HORIZONTAL ARROW (SYMBOL)
WO1-6a	72X36	18.00						HORIZ. ARROW (SYMBOL ON PERMANENT BARRICADE)
WO1-7	60X30	12.50						DOUBLE HEAD HORIZONTAL ARROW (SYMBOL)
WO1-7a	72X36	18.00						DOUBLE HEAD HORIZ. ARROW (SYMBOL ON PERM. BARR.)
WO1-8	18X24	3.00						CHEVRON (SYMBOL)
WO1-8a	30X36	7.50						CHEVRON (SYMBOL FOR DIVIDED HIGHWAYS)
WO3-1	48X48	16.00						STOP AHEAD (SYMBOL)
WO3-2	48X48	16.00						YIELD AHEAD (SYMBOL)
WO3-3	48X48	16.00						SIGNAL AHEAD (SYMBOL)
WO3-4	48X48	16.00						BE PREPARED TO STOP
WO3-5	48X48	16.00	2	32			3	SPEED LIMIT AHEAD
WO4-1L	48X48	16.00						MERGE (SYMBOL FROM LEFT)
WO4-1R	48X48	16.00						MERGE (SYMBOL FROM RIGHT)
WO4-1aL	48X48	16.00						MERGE (LEFT)
WO4-1aR	48X48	16.00						MERGE (RIGHT)
WO5-1	48X48	16.00						ROAD/BRIDGE/RAMP NARROWS
WO5-3	48X48	16.00						ONE LANE BRIDGE
WO5-5	48X48	16.00						NARROW LANES
WO6-1	48X48	16.00						DIVIDED HIGHWAY (SYMBOL)
WO6-2	48X48	16.00						DIVIDED HIGHWAY END (SYMBOL)
WO6-3	48X48	16.00						TWO WAY TRAFFIC (SYMBOL)
WO7-3a	30X24	5.00						NEXT XX MILES (PLAQUE)
WO8-1	48X48	16.00						BUMP
WO8-2	48X48	16.00						DIP
WO8-3	48X48	16.00						PAVEMENT ENDS
WO8-4	48X48	16.00						SOFT SHOULDER
WO8-5	48X48	16.00						SLIPPERY WHEN WET (SYMBOL)
WO8-6	48X48	16.00						TRUCK CROSSING
WO8-6c	48X48	16.00						TRUCK ENTRANCE
WO8-7	36X36	9.00						LOOSE GRAVEL
WO8-7a	36X36	9.00						FRESH OIL / LOOSE GRAVEL
WO8-9	48X48	16.00						LOW SHOULDER
WO8-11	48X48	16.00						UNEVEN LANES
WO8-12	48X48	16.00						NO CENTER LINE
WO8-15	48X48	16.00						GROOVED PAVEMENT
WO8-15P	30X24	5.00						MOTORCYCLE (PLAQUE)
WO8-17L	48X48	16.00						SHOULDER DROP-OFF (SYMBOL LEFT)
WO8-17R	48X48	16.00						SHOULDER DROP-OFF (SYMBOL RIGHT)
WO8-17P	30X24	5.00						SHOULDER DROP-OFF (PLAQUE)
W10-1	42RND.	9.62						RAILROAD CROSSING
WO12-1	24X24	4.00						DOUBLE DOWN ARROW (SYMBOL)
WO12-2	48X48	16.00						LOW CLEARANCE (SYMBOL)
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	4	64			2-2A	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	2	32			7	ONE LANE ROAD AHEAD
WO20-5	48X48	16.00						RIGHT/CENTER/LEFT LANE CLOSED AHEAD
WO20-5a	48X48	16.00						2 RIGHT/CENTER/LEFT LANES CLOSED AHEAD
WO20-6a	48X48	16.00						RIGHT/CENTER/LEFT LANE CLOSED
WO20-7a	48X48	16.00	2	32			8	FLAGGER (SYMBOL)
WO21-2	36X36	9.00						FRESH OIL
WO21-5	48X48	16.00						SHOULDER WORK / SHOULDER WORK AHEAD
WO22-1	48X48	16.00						BLASTING ZONE AHEAD
WO22-2	42X36	10.50						TURN OFF 2-WAY RADIO AND PHONE
WO22-3	42X36	10.50						END BLASTING ZONE
GO22-1	21X15	2.19						WET PAINT (ARROW PIVOTS)

SIGN	SIZE IN.	AREA SQ.FT.	QTY EACH	TOTAL SQ.FT.	QTY RELOC EACH	TOTAL RELOC SQ.FT.	SIGN NUM.	DESCRIPTION
GUIDE SIGNS								
E05-1	36X48	12.00						GORE EXIT
E05-2	48X36	12.00						EXIT OPEN
E05-2a	48X36	12.00						EXIT CLOSED
GO20-1	60X24	10.00						ROAD WORK NEXT XX MILES
GO20-2	48X24	8.00						END ROAD WORK
GO20-4	36X18	4.50						PILOT CAR FOLLOW ME
GO20-4a	42X30	8.75						PILOT CAR IN USE WAIT & FOLLOW
GO20-4a	18X12	1.50						PILOT CAR IN USE WAIT & FOLLOW
GO20-5aP	36X24	6.00	2	12			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	4	48			4-25	SPEED LIMIT 2-40MPH; 2-30MPH
R3-1	48X48	16.00						NO RIGHT TURN (SYMBOL)
R3-2	48X48	16.00						NO LEFT TURN (SYMBOL)
R3-3	36X36	9.00						NO TURNS
R3-4	48X48	16.00						NO U-TURN (SYMBOL)
R3-7L	30X30	6.25						LEFT LANE MUST TURN LEFT
R3-7R	30X30	6.25						RIGHT LANE MUST TURN RIGHT
R4-1	36X48	12.00						DO NOT PASS
R4-2	36X48	12.00						PASS WITH CARE
R4-7a	36X48	12.00						KEEP RIGHT (HORIZONTAL ARROW)
R4-8a	36X48	12.00						KEEP LEFT (HORIZONTAL ARROW)
R5-1	30X30	6.25						DO NOT ENTER
R5-1a	36X24	6.00						WRONG WAY
R6-1L	54X18	6.75						ONE WAY ARROW (LEFT)
R6-1R	54X18	6.75						ONE WAY ARROW (RIGHT)
R6-2L	24X30	5.00						ONE WAY (LEFT)
R6-2R	24X30	5.00						ONE WAY (RIGHT)
R9-9	24X12	2.00	8	16			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						POINT OF PRESENCE
CONST-8	48X36	12.00	2	24			61	WORK ZONE NO PHONE ZONE

616-10.05 CONSTRUCTION SIGNS	TOTAL
	260

616-10.10 RELOCATED SIGNS	TOTAL
	0

EFFECTIVE: 07-01-2024

ITEM NUMBER	TOTAL QTY	DESCRIPTION
6122008		IMPACT ATTENUATOR 40 MPH (SAND BARRELS)
6122009		IMPACT ATTENUATOR 45 MPH (SAND BARRELS)
6122010		IMPACT ATTENUATOR 50 MPH (SAND BARRELS)
6122012		IMPACT ATTENUATOR 55 MPH (SAND BARRELS)
6122014		IMPACT ATTENUATOR 60 MPH (SAND BARRELS)
6122017		IMPACT ATTENUATOR 65 MPH (SAND BARRELS)
6122019		IMPACT ATTENUATOR 70 MPH (SAND BARRELS)
6122020		REPLACEMENT SAND BARREL
6122030		IMPACT ATTENUATOR (RELOCATION)
6123001		TRUCK MOUNTED ATTENUATOR (TMA)
6161008	2	ADVANCED WARNING RAIL SYSTEM
6161012		BUOYS (BOATS KEEP OUT)
6161013		BUOYS (NO WAKE)
6161014		SPECIAL SIGN ASSEMBLY (BOATS KEEP OUT)
6161025	194	CHANNELIZER (TRIM LINE)
6161030	8	TYPE III MOVEABLE BARRICADE
6161033	5	DIRECTION INDICATOR BARRICADE
6161040	1	FLASHING ARROW PANEL
6161047		TYPE III 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	4	CHANGEABLE MESSAGE SIGN WITH COMM. INTERFACE- CONTRACTOR FURNISHED/RETAINED
6169902	22	ADA COMPLIANT MOVEABLE BARRICADES
6162000A		WORK ZONE TRAFFIC SIGNAL SYSTEM
6162002		TEMPORARY LONG-TERM RUMBLE STRIPS
6173600D		TEMPORARY TRAFFIC BARRIER CONTRACTOR FURNISHED/RETAINED
6173602B		TEMPORARY TRAFFIC BARRIER CONTRACTOR FURNISHED/COMMISSION RETAINED
6174000A		TEMP. TRAFFIC BARRIER HEIGHT TRANSITION
6175010A		RELOCATING TEMPORARY TRAFFIC BARRIER
6176000B		TEMPORARY TRAFFIC BARRIER COMMISSION FURNISHED/RETAINED
6177000B		TEMP. TRAFFIC BARRIER HEIGHT TRANSITION COMMISSION FURNISHED/RETAINED
6208064A		TEMPORARY RAISED PAVEMENT MARKER
9029400		TEMPORARY TRAFFIC SIGNALS
9029401		TEMPORARY TRAFFIC SIGNALS AND LIGHTING

SUMMARY OF QUANTITIES
SHEET 4 OF 4

STATE OF MISSOURI
ROBERT B. GREEN
NUMBER PE-25339
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED SEALED AND DATED ELECTRONICALLY.

DATE PREPARED
4/21/2025

ROUTE	STATE
160	MO
DISTRICT	SHEET NO.
SW	3

COUNTY
BARTON

JOB NO.
J7S3531B

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION	DATE

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

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

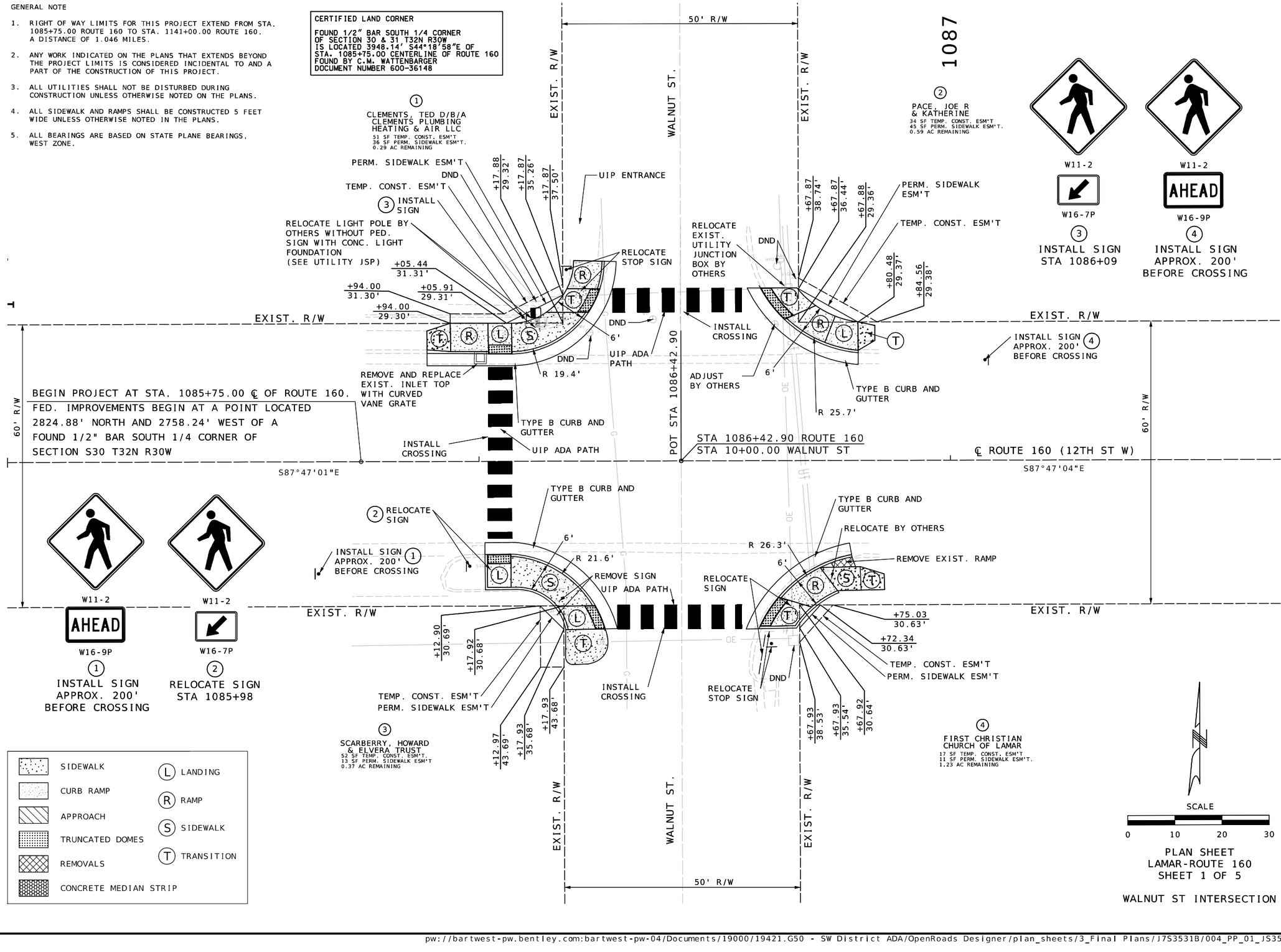
Bartlett & West
601 MONROE ST. SUITE 201 - JEFFERSON CITY, MO 65101
PHONE 573-634-3181
CERTIFICATE OF AUTHORITY NO. 000167 - ENGINEERING
WWW.BARTLETTWEST.COM

GENERAL NOTE

1. RIGHT OF WAY LIMITS FOR THIS PROJECT EXTEND FROM STA. 1085+75.00 ROUTE 160 TO STA. 1141+00.00 ROUTE 160. A DISTANCE OF 1.046 MILES.
2. ANY WORK INDICATED ON THE PLANS THAT EXTENDS BEYOND THE PROJECT LIMITS IS CONSIDERED INCIDENTAL TO AND A PART OF THE CONSTRUCTION OF THIS PROJECT.
3. ALL UTILITIES SHALL NOT BE DISTURBED DURING CONSTRUCTION UNLESS OTHERWISE NOTED ON THE PLANS.
4. ALL SIDEWALK AND RAMPS SHALL BE CONSTRUCTED 5 FEET WIDE UNLESS OTHERWISE NOTED IN THE PLANS.
5. ALL BEARINGS ARE BASED ON STATE PLANE BEARINGS, WEST ZONE.

CERTIFIED LAND CORNER

FOUND 1/2" BAR SOUTH 1/4 CORNER OF SECTION 30 & 31, T32N R30W IS LOCATED 3948.14' S44°18'58"E OF STA. 1085+75.00 CENTERLINE OF ROUTE 160 FOUND BY C.M. WATTENBARGER DOCUMENT NUMBER 600-36148



STATE OF MISSOURI
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DATE PREPARED 4/21/2025

ROUTE	STATE
160	MO
DISTRICT	SHEET NO.
SW	4

COUNTY: BARTON
JOB NO.: J7S3531B
CONTRACT ID.:
PROJECT NO.:
BRIDGE NO.:

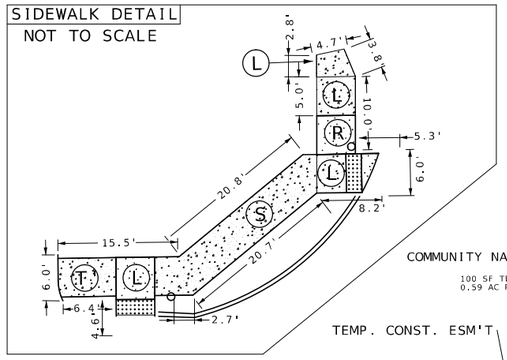
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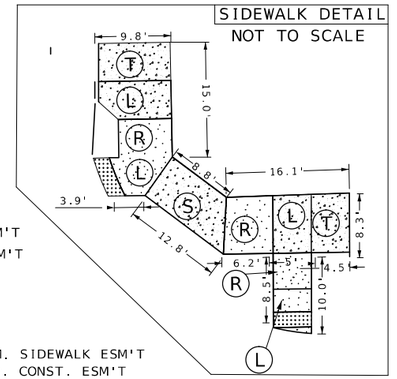
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105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

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SIDEWALK DETAIL
NOT TO SCALE



SIDEWALK DETAIL
NOT TO SCALE



5
COMMUNITY NATIONAL BANK & TRUST
100 SF TEMP. CONST. ESM'T
0.59 AC REMAINING

6
LAMAR FAMILY MINISTRIES CENTER
72 SF TEMP. CONST. ESM'T
94 SF PERM. SIDEWALK ESM'T.
1.46 AC REMAINING

7
LEE, HAN JOO & HO KYUNG
95 SF TEMP. CONST. ESM'T
378 SF NEW R/W
0.37 AC REMAINING

8
NEW SEASONS COMMERCIAL LLC
117 SF TEMP. CONST. ESM'T
339 SF NEW R/W
0.76 AC REMAINING

80' R/W
EXIST. CITY R/W
GULF ST.
1094
1095
EXIST. R/W
60' R/W
℄ ROUTE 160 (12TH ST W)
S87°47'02"E
S87°19'22"E
POT STA 1094+25.30
STA 1094+25.30 ROUTE 160
STA 10+00.00 GULF ST
UIP
DND
INSTALL 8' PED. POST WITH APS PUSH BUTTON, PED. CROSSING SIGNAL HEAD
MODIFIED TYPE S CURB
PERM. SIDEWALK ESM'T
TEMP. CONST. ESM'T
2.5' TYPE B CURB AND GUTTER
RELOCATE STOP BAR
UIP ADA PATH
INSTALL CROSSING
TYPE B CURB AND GUTTER
8" THICK CONCRETE
EXISTING PULLBOX (R)
R 34.7'
R 36.0'
+48.01 29.98'
+47.99 34.95'
+66.37 30.00'
+70.52 34.80'
+85.37 51.98'
+64.72 51.92'
+74.49 41.29'
+76.27 39.35'
+87.75 39.73'
+89.75 41.80'
+87.75 30.00'
+89.75 30.00'
+84.87 30.00'
(R)
INSTALL 8' PED. POST WITH APS PUSH BUTTON, PED. CROSSING SIGNAL HEAD
INSTALL NEW PULLBOX
6" CONCRETE MEDIAN
TEMP. CONST. ESM'T
NEW R/W
+72.23 30.00'
+85.77 30.00'
+46.51 30.02'
+48.96 30.02'
+76.37 52.54'
+78.38 51.63'
+76.30 61.60'
+78.32 59.62'
+85.22 61.67'
+85.22 59.67'
+85.23 52.02'
+65.87 51.60'
+65.95 63.96'
+65.93 60.63'
+79.33 42.54'
+80.36 44.51'
+92.93 42.08'
+93.56 44.12'
+08.74 30.00'
+12.03 30.00'
INSTALL 8' PED. POST WITH APS PUSH BUTTON, PED. CROSSING SIGNAL HEAD
INSTALL 8' PED. POST WITH APS PUSH BUTTON, PED. CROSSING SIGNAL HEAD
INSTALL 8' PED. POST WITH APS PUSH BUTTON, PED. CROSSING SIGNAL HEAD
REMOVE GUY WIRE BY OTHERS
INSTALL NEW SIGNAL CABINET
EXISTING SIGNAL CABINET (R)
REMOVE BY LIGHT POLE OTHERS
TEMP.CONST.ESM'T
UT
6'
R 60.8'
R 60.0'
13.5'
19.4'
11.9'
15.6'
6.7'

SCALE
0 10 20 30

PLAN SHEET
LAMAR-ROUTE 160
SHEET 2 OF 5

GULF ST INTERSECTION

SIDEWALK
CURB RAMP
APPROACH
TRUNCATED DOMES
REMOVALS
CONCRETE MEDIAN STRIP
L LANDING
R RAMP
S SIDEWALK
T TRANSITION

STATE OF MISSOURI
ROBERT B. GREEN
NUMBER PE-25339
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED
3/25/2025

ROUTE	STATE
160	MO
DISTRICT	SHEET NO.
SW	5

COUNTY
BARTON

JOB NO.
J7S3531B

CONTRACT ID.

PROJECT NO.

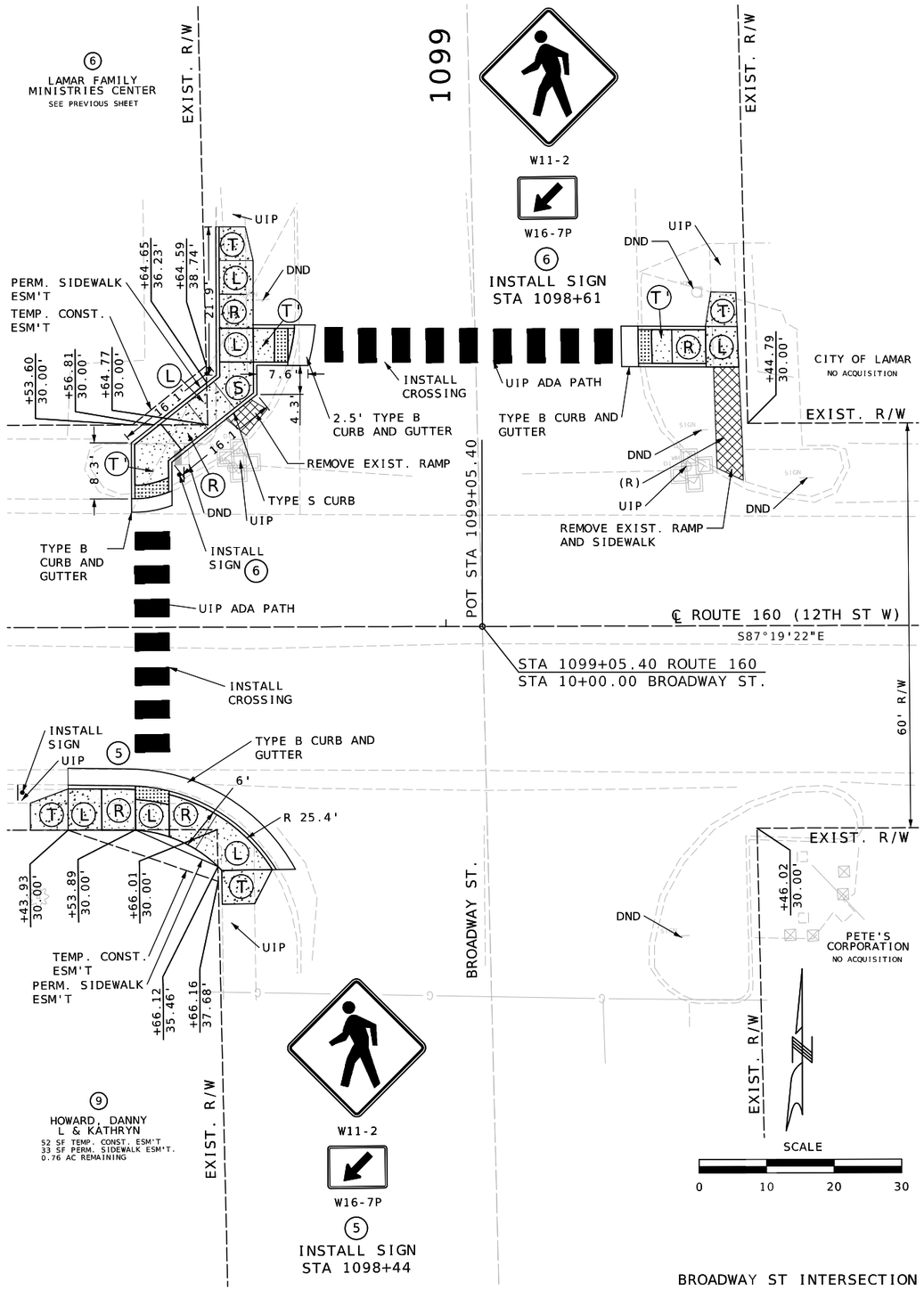
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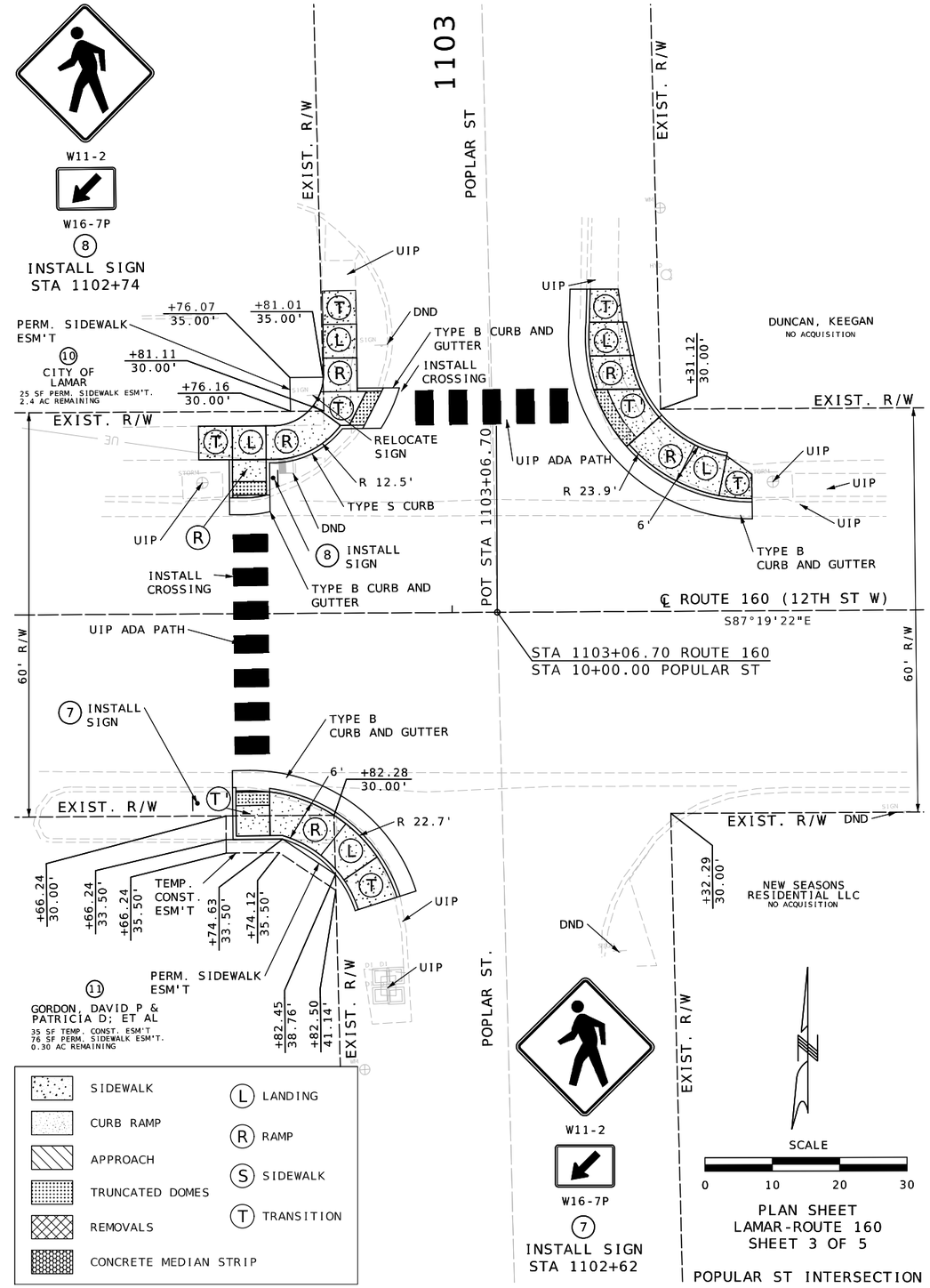
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MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

Bartlett & West
601 MONROE ST. SUITE 201 - JEFFERSON CITY, MO 65101
PHONE 573-634-3181
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STATE OF MISSOURI
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DATE PREPARED
3/3/2025

ROUTE	STATE
160	MO
DISTRICT	SHEET NO.
SW	6

COUNTY
BARTON

JOB NO.
J7S3531B

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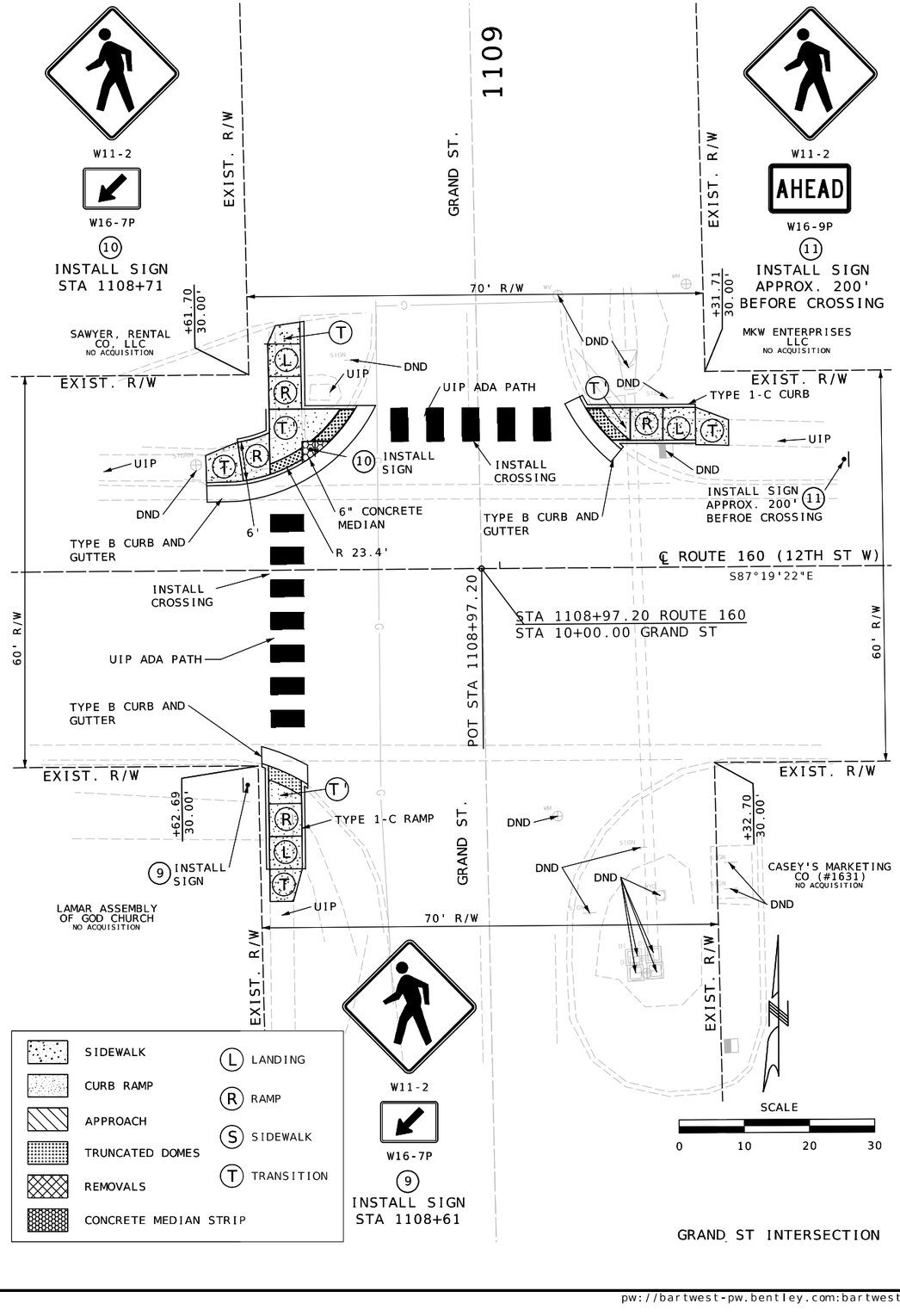
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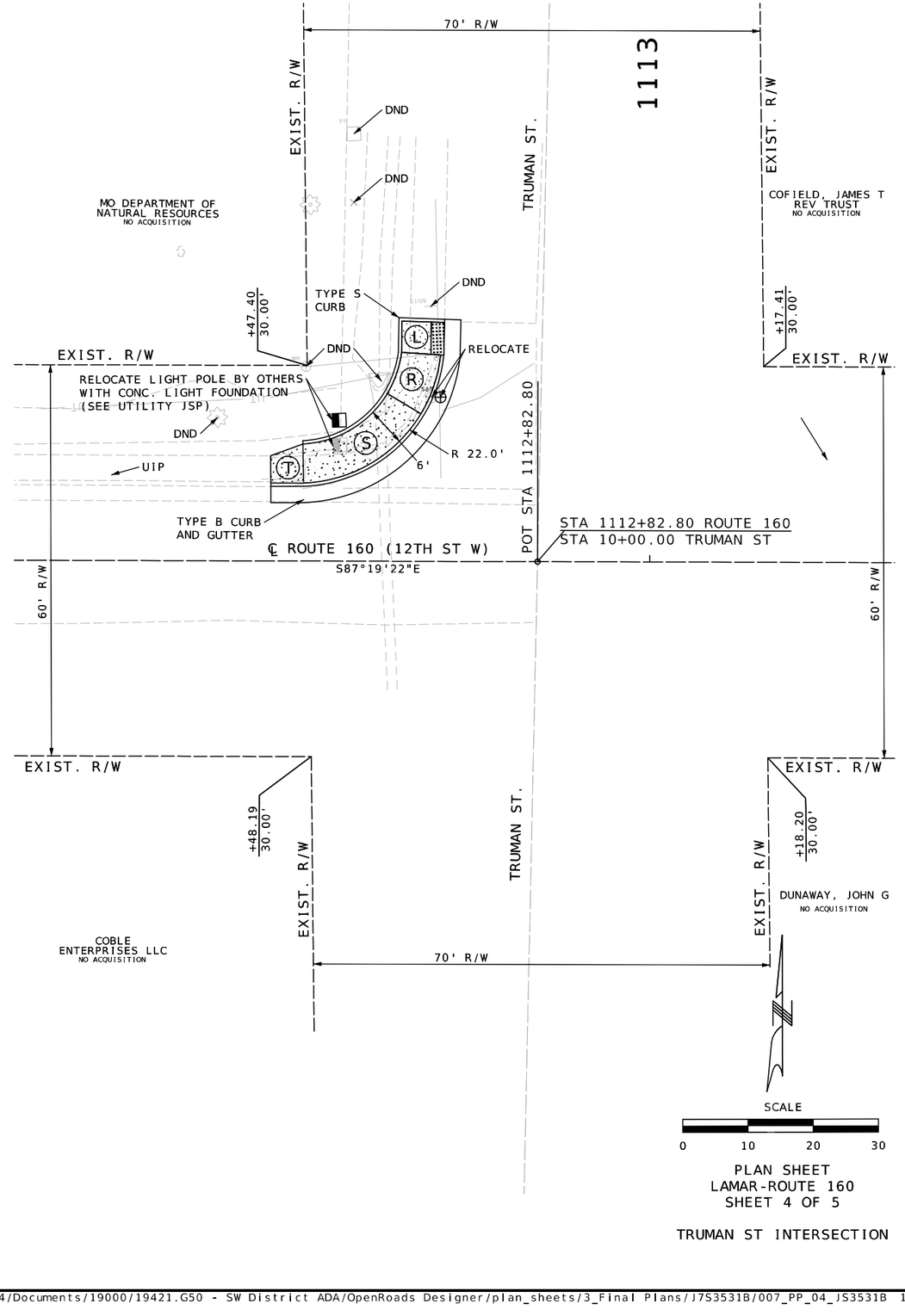
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STATE OF MISSOURI
ROBERT B. GREEN
NUMBER PE-2539
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DATE PREPARED
3/3/2025

ROUTE	STATE
160	MO
DISTRICT	SHEET NO.
SW	7

COUNTY
BARTON

JOB NO.
J7S3531B

CONTRACT ID.

PROJECT NO.

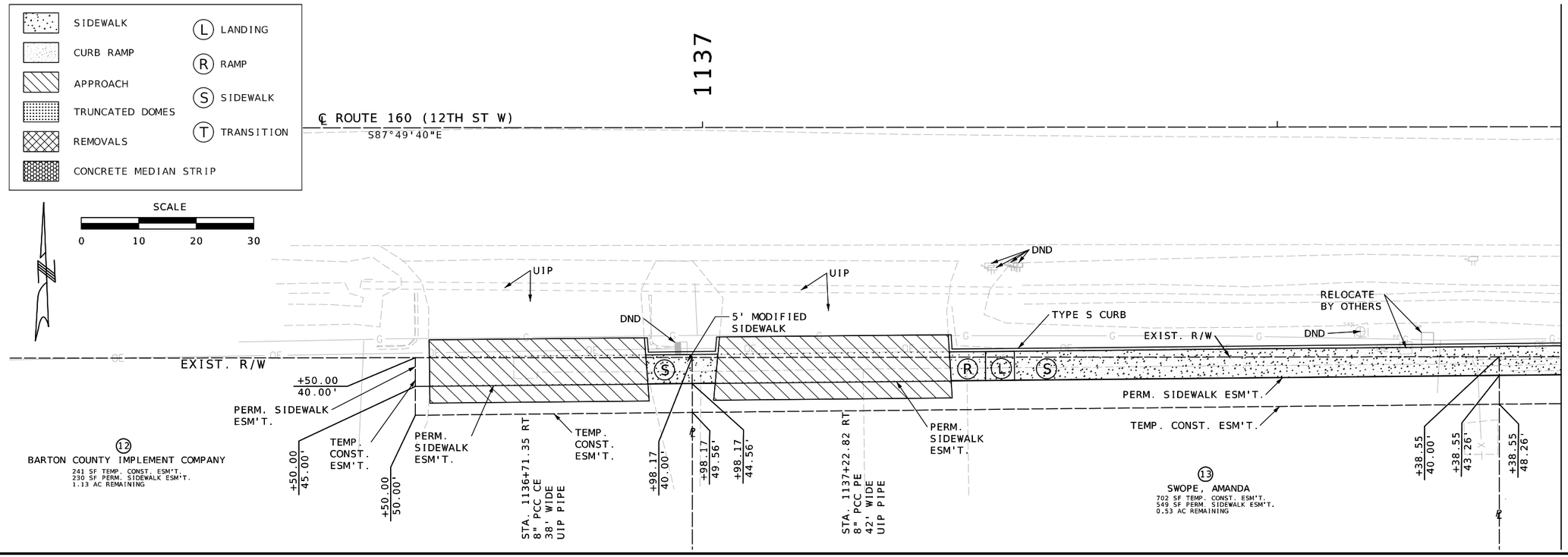
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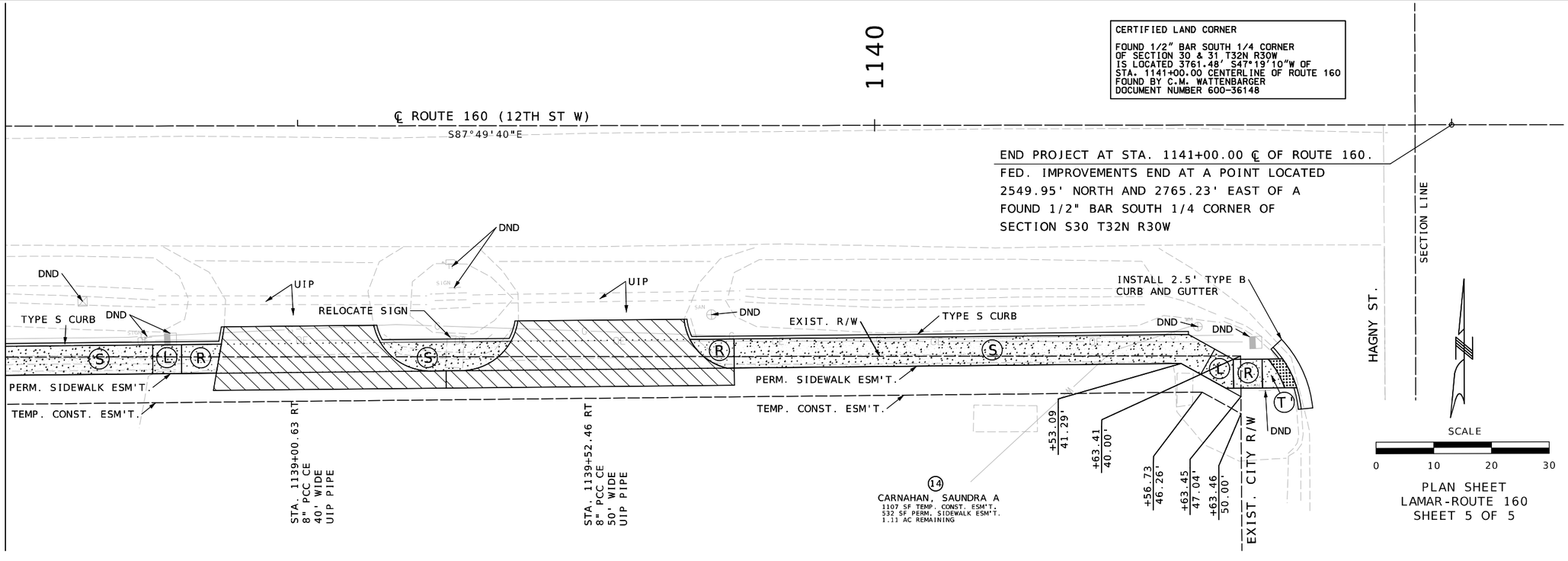
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DESCRIPTION | DATE

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

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STATE OF MISSOURI
ROBERT B. GREEN
NUMBER PE-25339
PROFESSIONAL ENGINEER
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DATE PREPARED 3/3/2025

ROUTE	STATE
160	MO
DISTRICT	SHEET NO.
SW	8

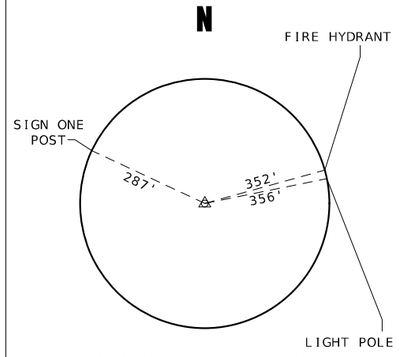
COUNTY: BARTON
JOB NO.: J7S3531B
CONTRACT ID.:
PROJECT NO.:
BRIDGE NO.:

DESCRIPTION	DATE

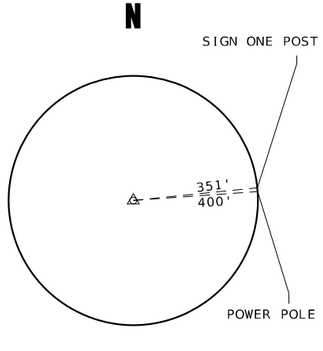
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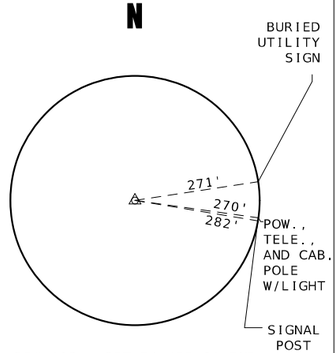
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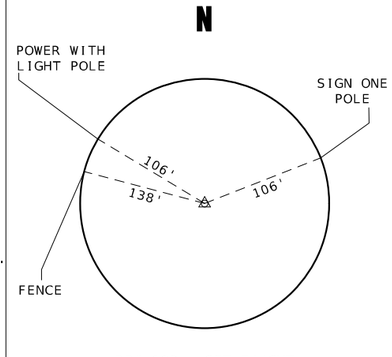
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N: 482902.098
E: 2854605.526
ELEV. 954.599



RP# 101 - SET 74/MAG ASPH
N: 483078.897
E: 2852291.180
ELEV. 950.453



RP# 102 - SET 74 /BR-01 DNR
N: 483110.328
E: 2853130.781
ELEV. 956.649



RP# 103 - SET 74/CUT
N: 482791.121
E: 2857990.888
ELEV. 971.247

MISSOURI STATE PLANE COORDINATES WEST ZONE, NAD 1983
COORDINATES LISTED ARE STATE PLANE (GRID) PROJECT COORDINATES - U.S. SURVEY FEET
STATE PLANE (GRID) COORDINATES X 1.00009141 = MODIFIED GROUND COORDINATES

LAMAR
REFERENCE POINTS
SHEET 1 OF 1

STATE OF MISSOURI
ROBERT B. GREEN
NUMBER PE-2533B
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED
3/3/2025

ROUTE	STATE
160	MO
DISTRICT	SHEET NO.
SW	9

COUNTY
BARTON

JOB NO.
J7S3531B

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION	DATE

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

Bartlett & West
601 MONROE ST. SUITE 201 - JEFFERSON CITY, MO 65101
PHONE 573-634-3181
CERTIFICATE OF AUTHORITY NO. 000167 - ENGINEERING
WWW.BARTLETTWEST.COM

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

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

PROJECT COORDINATE INFORMATION

COORDINATE SYSTEM	MISSOURI STATE PLANE, WEST ZONE
HORIZONTAL DATUM	NAD83
VERTICAL DATUM	NAVD88
GEOID MODEL	GEOID 18
ELEVATIONS DETERMINED BY	BARTLETT & WEST RAN OPUS SOLUTION FOR CONTROL POINT 100, AND HELD POINT 100 FOR HORIZONTAL AND VERTICAL CONTROL
PROJECT PROJECTION FACTOR	1.0000947

REFERENCE CONTROL INFORMATION

COORDINATE SYSTEM	MO COORDINATE SYSTEM OF 1983
CONTROL STATION	MISSOURI CORS
DESIGNATION	MODOT BUTLER CORS ARP
CORS_ID	MOBT
PID	DL6888
LATITUDE	N38°15'26.94377"
LONGITUDE	W94°23'36.05402"
NORTHING (M)	232034.141
EASTING (M)	859334.083
ZONE	WEST
PROJECT AVERAGE GRID FACTOR	0.999905309

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 _____.____ X _.________ = N _____.___
E _____.____ X _.________ = E _____.___

LINEAR UNIT CONVERSION

1 METER = 3.280833333 US SURVEY FEET (USFT)

COORDINATE POINT LISTING

SHEET NO	STATION	LOCATION	OFFSET (USFT)	MODIFIED STATE PLANE (GROUND) NORTHING (US SURVEY FT)	EASTING (US SURVEY FT)	ELEVATION (US SURVEY FT)	DESCRIPTION	GPK POINT ID
PROJECT CONTROL POINTS								
N/A	1105+92.04	RT	160.07'	482902.098	2854605.526	954.599	74 / 5/8 ROD PC	100
N/A	N/A	N/A	N/A	483078.897	2852291.180	950.453	74 / MAG ASPH	101
N/A	N/A	N/A	N/A	483110.328	2853130.781	956.649	74 / BR-01 DNR	102
8	1139+70.61	RT	88.18'	482791.121	2857990.888	971.247	74 / CUT	103
ALIGNMENTS								
N/A	1082+82.00			483160.597	2852307.275		POINT OF INTERSECTION	P.I.
4	1084+75.00			483149.265	2852600.056		BEGINNING OF PROJECT	B.P.
4	1086+42.90			483146.640	2852667.905		INTERSECTION WITH WALNUT ST.	P.I.
4	1086+42.90			483146.640	2852667.905		POINT OF TANGENCY	P.T.
N/A	1090+25.30			483131.856	2853050.019		POINT OF TANGENCY	P.T.
5	1094+25.30			483116.390	2853449.720		INTERSECTION WITH GULF ST.	P.I.
5	1094+25.30			483116.390	2853449.720		POINT OF TANGENCY	P.T.
6	1099+05.40			483093.965	2853929.295		INTERSECTION WITH BROADWAY ST.	P.I.
6	1099+05.40			483093.965	2853929.295		POINT OF TANGENCY	P.T.
6	1103+06.70			483075.222	2854330.157		INTERSECTION WITH POPULAR ST.	P.I.
6	1103+06.70			483075.222	2854330.157		POINT OF TANGENCY	P.T.
N/A	1105+17.20			483065.390	2854540.427		POINT OF TANGENCY	P.T.
7	1108+97.20			483047.641	2854920.013		INTERSECTION WITH GRAND ST.	P.I.
7	1108+97.20			483047.641	2854920.013		POINT OF TANGENCY	P.T.
7	1112+82.80			483029.631	2855305.192		INTERSECTION WITH TRUMAN ST.	P.I.
7	1112+82.80			483029.631	2855305.192		POINT OF TANGENCY	P.T.
N/A	1123+04.81			482981.895	2856326.087		POINT OF INTERSECTION	P.I.
N/A	1135+22.00			482896.240	2857545.939		POINT OF INTERSECTION	P.I.
8	1140+88.19			482874.781	2858111.719		INTERSECTION WITH HAGNY ST.	P.I.
8	1141+00.00			482874.333	2858123.523		END OF PROJECT	E.P.
N/A	1144+99.09			482859.207	2858522.327		POINT OF INTERSECTION	P.I.

COORDINATE POINT SHEET
SHEET 1 OF 1

STATE OF MISSOURI
ROBERT B. GREEN
NUMBER PE-25339
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

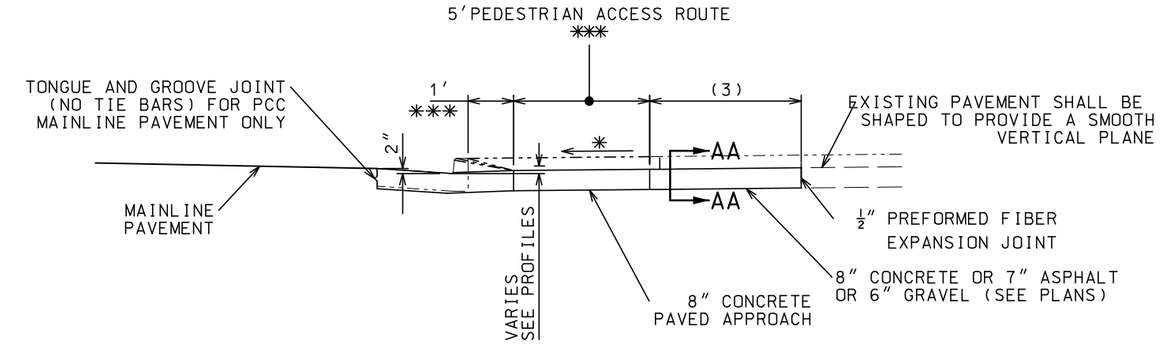
DATE PREPARED: 3/3/2025
ROUTE: 160 | STATE: MO
DISTRICT: SW | SHEET NO.: 10
COUNTY: BARTON
JOB NO.: J7S3531B
CONTRACT ID.:
PROJECT NO.:
BRIDGE NO.:

DESCRIPTION | DATE

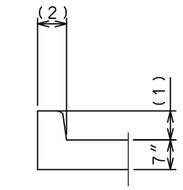
IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

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

Bartlett & West
601 MONROE ST. SUITE 201 - JEFFERSON CITY, MO 65101
PHONE 573-634-3181
CERTIFICATE OF AUTHORITY NO. 000167 - ENGINEERING
WWW.BARTLETTWEST.COM

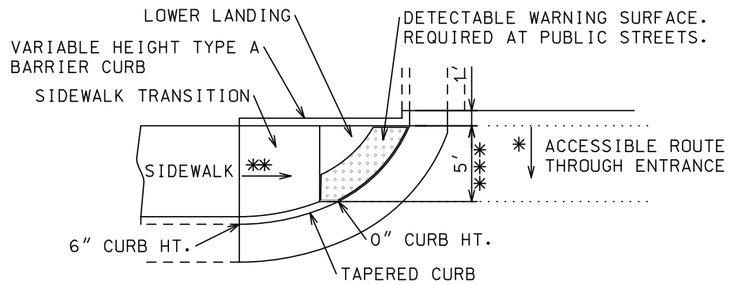


SECTION A–A

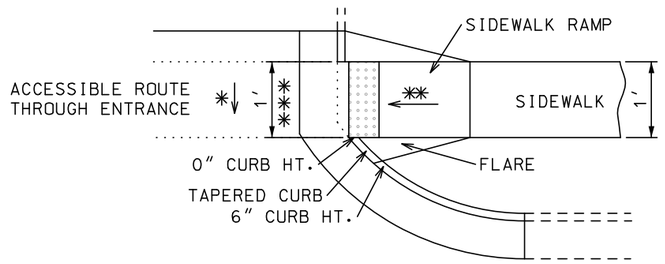


TYPE B (BARRIER)

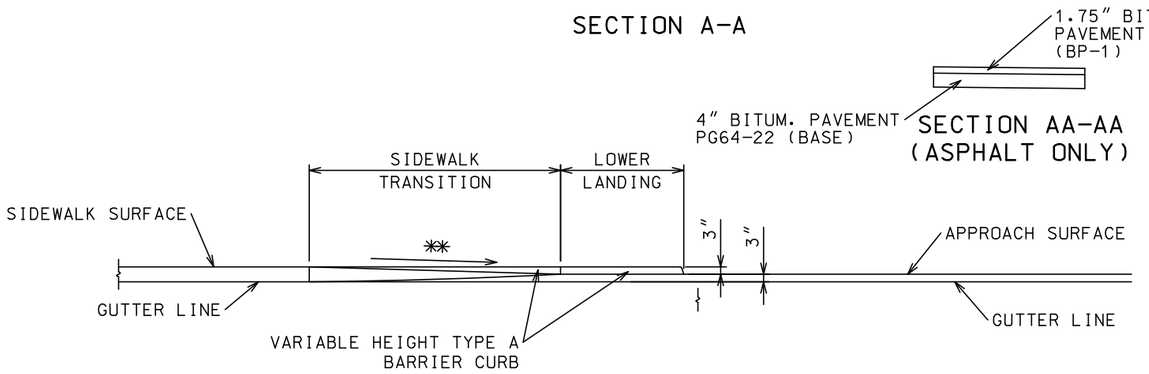
SECTION B–B



DETAIL A

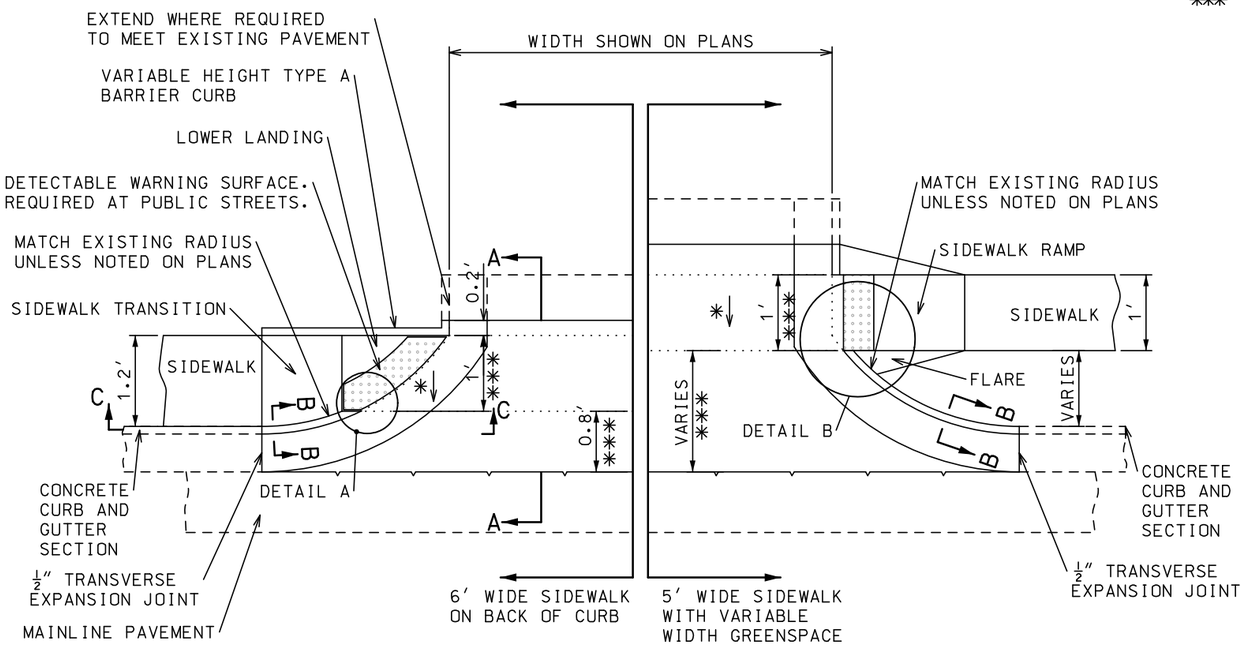


DETAIL B



SECTION AA–AA (ASPHALT ONLY)

SECTION C–C



(SEE PLAN SHEETS FOR LOCATION OF SIDEWALK RELATIVE TO THE CURB)

PLAN OF NON-SIGNALIZED SIDE STREET APPROACHES

* THE CROSS SLOPE OF THE CONTINUOUS PEDESTRIAN ACCESS ROUTE SHALL BE 1.00% TO FACILITATE DRAINAGE (2.00% MAX.).

** SIDEWALK TRANSITION 5.00% MAXIMUM SLOPE.

*** ACCESSIBLE ROUTE THROUGH ENTRANCE. NOTE THAT THE DIMENSIONS SHOWN ON THIS SHEET ARE DESIRED. HOWEVER, EXISTING DRIVEWAYS WITH STEEPER GRADES MAY REQUIRE A 4′ WIDE PEDESTRIAN ROUTE IN ORDER TO KEEP GRADE BREAKS TO A MINIMUM. REFER TO DRIVEWAY SECTIONS FOR FINAL DIMENSIONS AT EACH DRIVEWAY.

(1) 6″ – EXCEPT WHERE VARIED TO MEET EXISTING IMPROVEMENTS.
(2) 6″ – EXCEPT WHERE VARIED TO MEET EXISTING IMPROVEMENTS.
(3) EXTEND WHERE REQUIRED TO MEET EXISTING PAVEMENT.

GENERAL NOTES:

WHERE PAVED APPROACH MEETS EXISTING CONCRETE PAVEMENT OR SIDEWALK, PLACE ½″ PREFORMED FIBER EXPANSION JOINT, CUT TO TEMPLATE, THROUGH NEW CONCRETE AND 1′ FROM JUNCTION WITH EXISTING CONCRETE, OR ALONG INSIDE EDGE OF SIDEWALK. WHERE PAVED APPROACH MEETS EXISTING BITUMINOUS CONSTRUCTION, OMIT JOINT.

SEE STANDARD PLAN 502.05 FOR TYPE AND LOCATION OF CONCRETE PAVEMENT JOINTS.

SEE STANDARD PLAN 609.00 FOR TRANSVERSE EXPANSION JOINT DETAILS.

IF SIDEWALKS ARE NOT INCLUDED IN CONSTRUCTION OF PAVED APPROACH, PLACE GROUND COVER, AS SHOWN ON PLANS, BEHIND CURB THROUGH RADIUS. GROUND COVER SHALL CONFORM TO FINISHED GRADING FOR CURB RAMP.

HAND FINISHING PERMITTED ON PAVED APPROACH.

THE APPROACH GRADE THROUGH THE LIMITS OF A SIDEWALK SHALL NOT EXCEED 2.00%.

SEE STANDARD PLAN 608.00 FOR PAVED APPROACH JOINT DETAILS.

VARIABLE HEIGHT TYPE A BARRIER CURB SHALL BE CONSTRUCTED ACCORDING TO STANDARD PLANS. PAID FOR PER SQUARE YARD ON CONCRETE CURB RAMP

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

NOT TO SCALE

SPECIAL SHEET
SHEET 1 OF 6

STATE OF MISSOURI
ROBERT B. GREEN
NUMBER PE-2539
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

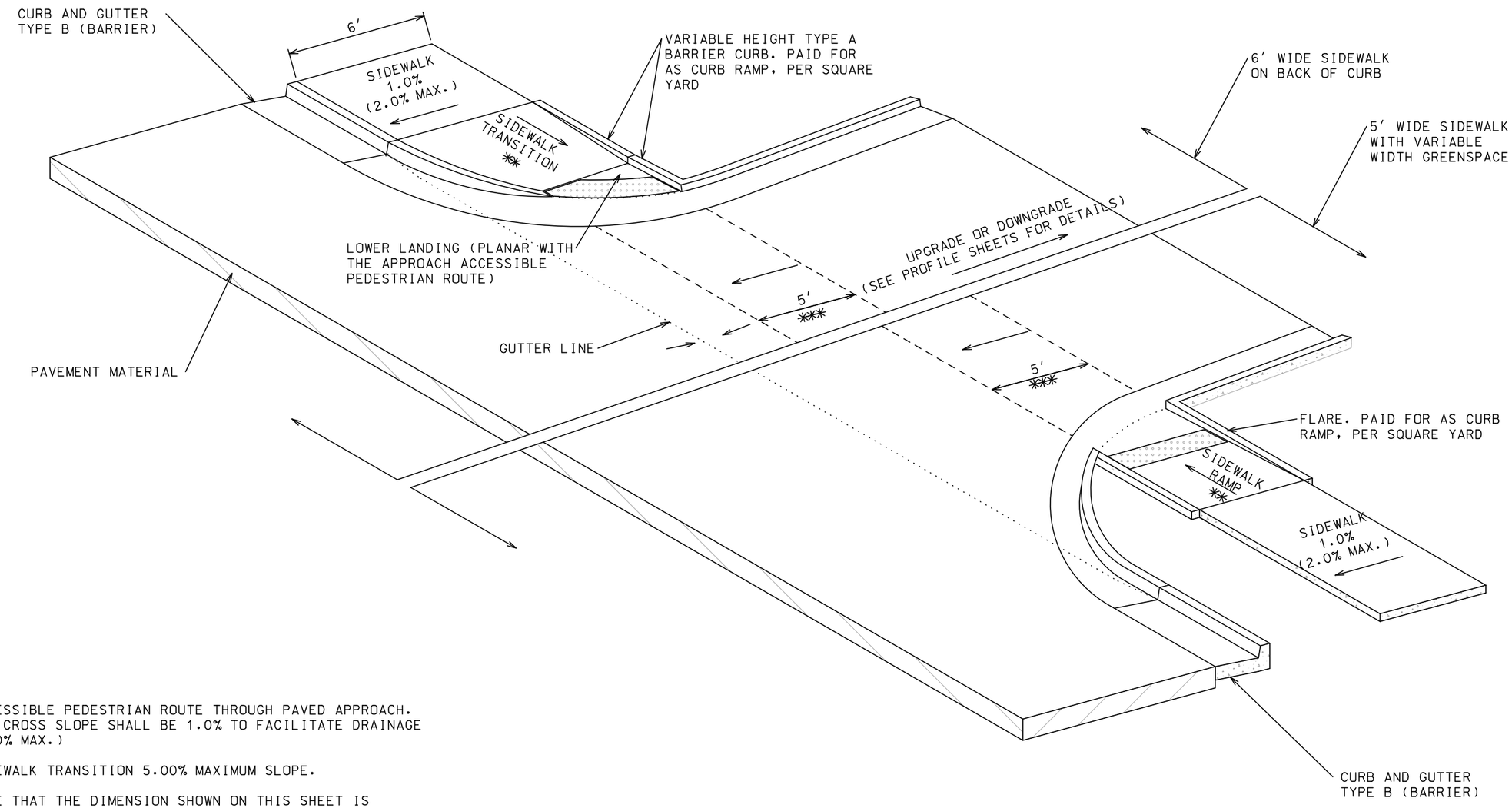
DATE PREPARED 3/3/2025
ROUTE 160 | STATE MO
DISTRICT SW | SHEET NO. 11
COUNTY BARTON
JOB NO. J7S3531B
CONTRACT ID.
PROJECT NO.
BRIDGE NO.

DESCRIPTION | DATE

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

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

Bartlett & West
601 MONROE ST. SUITE 201 - JEFFERSON CITY, MO 65101
PHONE 573-634-3181
CERTIFICATE OF AUTHORITY NO. 000167 - ENGINEERING
WWW.BARTLETTWEST.COM



* ACCESSIBLE PEDESTRIAN ROUTE THROUGH PAVED APPROACH. THE CROSS SLOPE SHALL BE 1.0% TO FACILITATE DRAINAGE (2.0% MAX.)

** SIDEWALK TRANSITION 5.00% MAXIMUM SLOPE.

*** NOTE THAT THE DIMENSION SHOWN ON THIS SHEET IS DESIRED. HOWEVER, EXISTING DRIVEWAYS WITH STEEPER GRADES MAY REQUUIRE A 4′ WIDE PEDESTRIAN ROUTE IN ORDER TO KEEP GRADE BREAKS TO A MINIMUM. REFER TO DRIVEWAY SECTIONS FOR FINAL DIMENSIONS AT EACH DRIVEWAY.

DISCLAIMER
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(SEE PLAN SHEETS FOR LOCATION OF SIDEWALK RELATIVE TO THE CURB)

ISOMETRIC VIEW
NON-SIGNALIZED SIDE STREET APPROACHES

NOT TO SCALE

STATE OF MISSOURI
ROBERT B. GREEN
NUMBER PE-25339
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED SEALED AND DATED ELECTRONICALLY.

DATE PREPARED
3/3/2025

ROUTE	STATE
160	MO
DISTRICT	SHEET NO.
SW	12

COUNTY
BARTON

JOB NO.
J7S3531B

CONTRACT ID.

PROJECT NO.

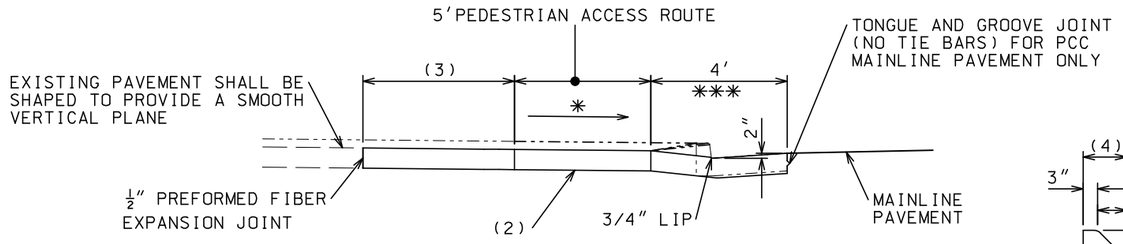
BRIDGE NO.

DESCRIPTION	DATE

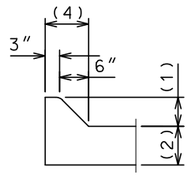
IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

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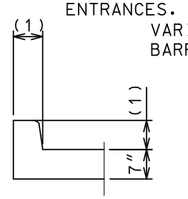


SECTION A–A



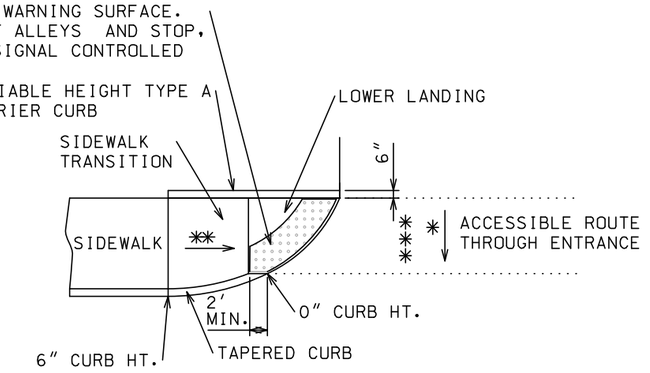
TYPE A
(MOUNTABLE)

SECTION B–B

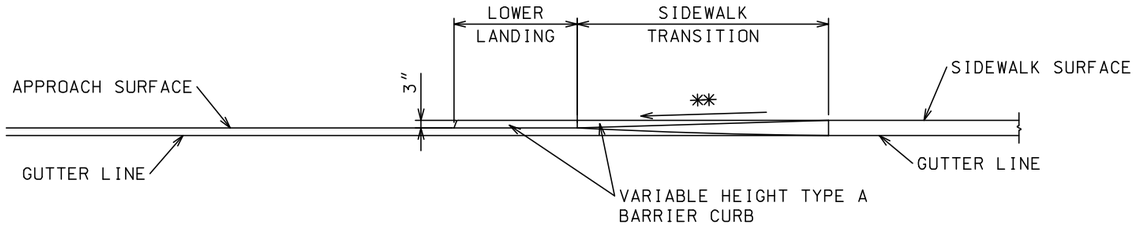


TYPE B
(BARRIER)

SECTION B–B



DETAIL A



SECTION C–C

* THE CROSS SLOPE OF THE CONTINUOUS PEDESTRIAN ACCESS ROUTE SHALL BE 1.0% TO FACILITATE DRAINAGE (2.00% MAX.).

** SIDEWALK TRANSITION 5% MAXIMUM SLOPE

*** NOTE THAT THE DIMENSIONS SHOWN ON THIS SHEET ARE DESIRED. HOWEVER, EXISTING DRIVEWAYS WITH STEEPER GRADES MAY REQUIRE A 4' WIDE PEDESTRIAN ROUTE IN ORDER TO KEEP GRADE BREAKS TO A MINIMUM. REFER TO DRIVEWAY SECTIONS FOR FINAL DIMENSIONS AT EACH DRIVEWAY.

(1) 6" – EXCEPT WHERE VARIED TO MEET EXISTING IMPROVEMENTS.
(2) 8" NRCCP – FOR ALLEY OR COMMERCIAL APPROACHES.
7" NRCCP – FOR RESIDENTIAL APPROACHES.
(3) EXTEND WHERE REQUIRED TO MEET EXISTING PAVEMENT.
(4) 9" – EXCEPT WHERE VARIED TO MEET EXISTING IMPROVEMENTS.
(5) 2.5' WHEN ADJACENT EXISTING CURB AND GUTTER IS TYPE B, 2.75' WHEN TYPE A.

GENERAL NOTES:

WHERE PAVED APPROACH MEETS EXISTING CONCRETE PAVEMENT OR SIDEWALK, PLACE ½" PREFORMED FIBER EXPANSION JOINT, CUT TO TEMPLATE, THROUGH NEW CONCRETE AND 1' FROM JUNCTION WITH EXISTING CONCRETE, OR ALONG INSIDE EDGE OF SIDEWALK. WHERE PAVED APPROACH MEETS EXISTING BITUMINOUS CONSTRUCTION, OMIT JOINT.

SEE STANDARD PLAN 502.05 FOR TYPE AND LOCATION OF CONCRETE PAVEMENT JOINTS.

SEE STANDARD PLAN 609.00 FOR TRANSVERSE EXPANSION JOINT DETAILS.

WHERE DRAINAGE IS NOT TO BE CARRIED ACROSS THE PAVED APPROACH, SECTION A–A SHALL BE MODIFIED TO ELIMINATE THE "LIP" AND SHALL BE CROWNED AS DIRECTED BY THE ENGINEER.

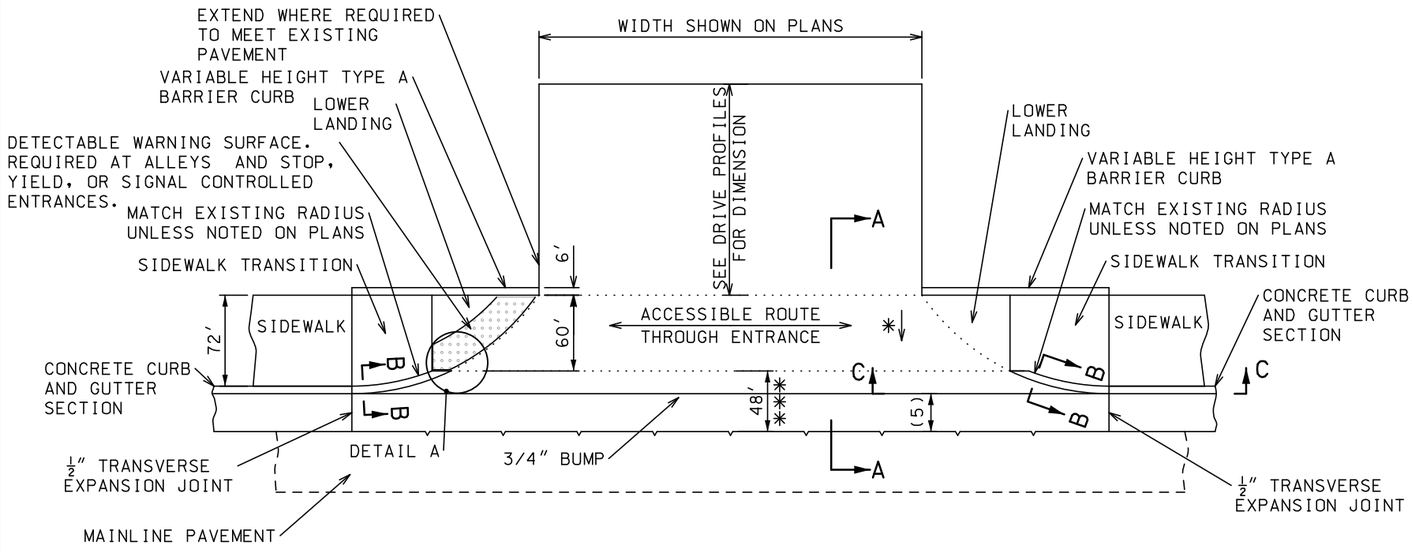
IF SIDEWALKS ARE NOT INCLUDED IN CONSTRUCTION OF PAVED APPROACH, PLACE GROUND COVER, AS SHOWN ON PLANS, BEHIND CURB THROUGH RADIUS. GROUND COVER SHALL CONFORM TO FINISHED GRADING FOR CURB RAMP.

HAND FINISHING PERMITTED ON PAVED APPROACH.

THE APPROACH GRADE THROUGH THE LIMITS OF A SIDEWALK SHALL NOT EXCEED 2.00%.

SEE STANDARD PLAN 608.00 FOR PAVED APPROACH JOINT DETAILS.

VARIABLE HEIGHT TYPE A BARRIER CURB SHALL BE CONSTRUCTED ACCORDING TO STANDARD PLANS. PAID FOR PER SQUARE YARD ON CONCRETE CURB RAMP



PLAN OF ALLEYS, COMMERCIAL OR RESIDENTIAL APPROACHES WITH 6' SIDEWALKS

SPECIAL SHEET
ENTRANCE DETAIL
SHEET 3 OF 6

STATE OF MISSOURI
ROBERT B. GREEN
NUMBER PE-25339
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

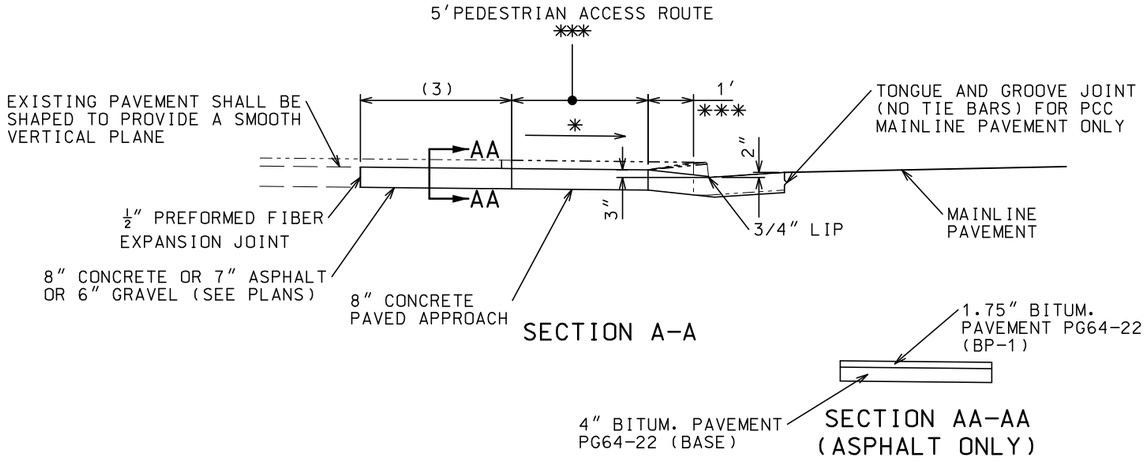
DATE PREPARED 3/3/2025
ROUTE 160 | STATE MO
DISTRICT SW | SHEET NO. 13
COUNTY BARTON
JOB NO. J7S3531B
CONTRACT ID.
PROJECT NO.
BRIDGE NO.

DESCRIPTION | DATE

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

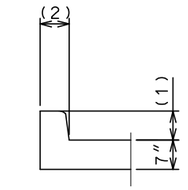
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

Bartlett & West
601 MONROE ST. SUITE 201 - JEFFERSON CITY, MO 65101
PHONE 573-634-3181
CERTIFICATE OF AUTHORITY NO. 000167 - ENGINEERING
WWW.BARTLETTWEST.COM



SECTION A–A

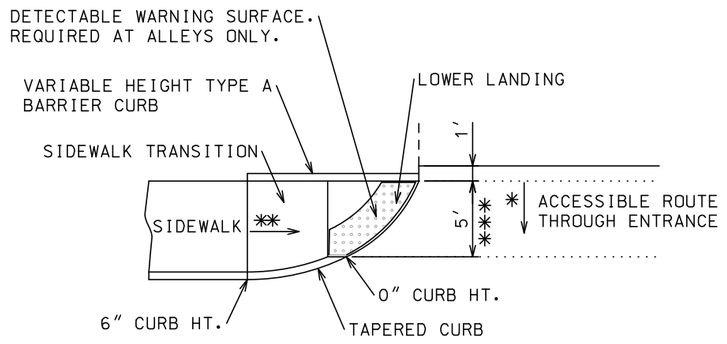
SECTION AA–AA (ASPHALT ONLY)



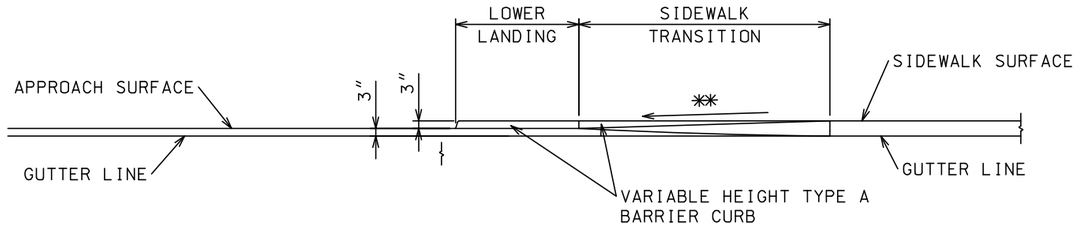
TYPE B (BARRIER)

SECTION B–B

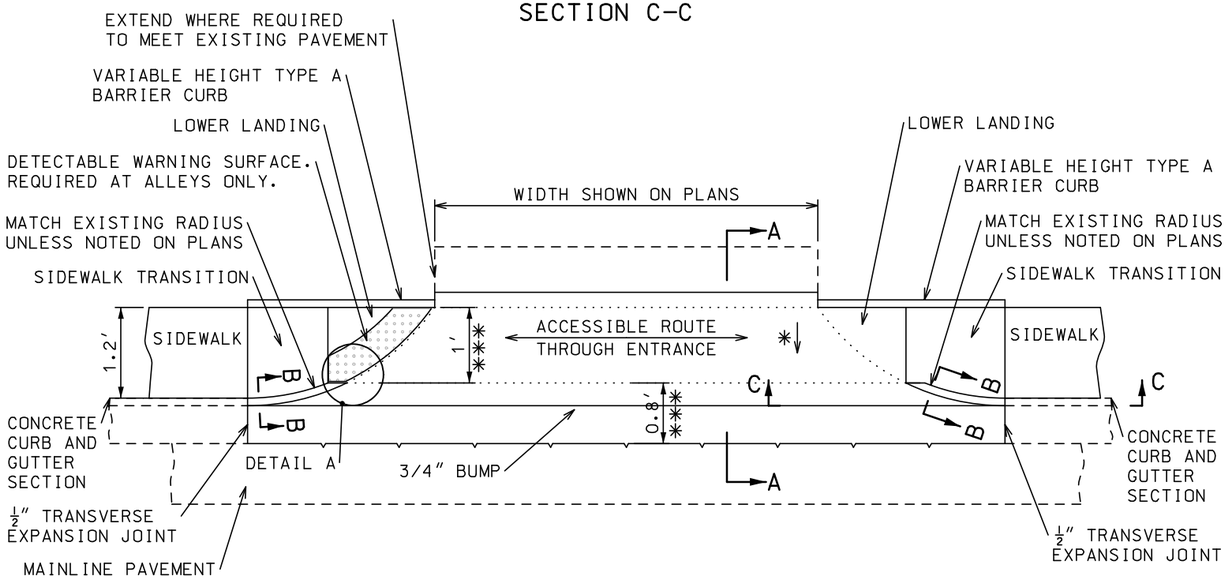
NOTE: THE CROSS SLOPE OF SIDEWALKS, LANDINGS, AND ACCESSIBLE ROUTE THROUGH THE PAVED APPROACHES SHALL BE 1.00% TO FACILITATE DRAINAGE (2.00% MAX.).



DETAIL A



SECTION C–C



PLAN OF NON-SIGNALIZED ALLEY AND COMMERCIAL OR RESIDENTIAL APPROACHES WITH 6′ SIDEWALKS

* THE CROSS SLOPE OF THE CONTINUOUS PEDESTRIAN ACCESS ROUTE SHALL BE 1.00% TO FACILITATE DRAINAGE (2.00% MAX.).

** SIDEWALK TRANSITION 5% MAXIMUM SLOPE

*** NOTE THAT THE DIMENSIONS SHOWN ON THIS SHEET ARE DESIRED. HOWEVER, EXISTING DRIVEWAYS WITH STEEPER GRADES MAY REQUIRE A 4′ WIDE PEDESTRIAN ROUTE IN ORDER TO KEEP GRADE BREAKS TO A MINIMUM. REFER TO DRIVEWAY SECTIONS FOR FINAL DIMENSIONS AT EACH DRIVEWAY.

(1) 6″ – EXCEPT WHERE VARIED TO MEET EXISTING IMPROVEMENTS.
(2) 6″ – EXCEPT WHERE VARIED TO MEET EXISTING IMPROVEMENTS.
(3) EXTEND WHERE REQUIRED TO MEET EXISTING PAVEMENT.
(4) VARY TO MEET EXISTING IMPROVEMENTS.

GENERAL NOTES:

WHERE PAVED APPROACH MEETS EXISTING CONCRETE PAVEMENT OR SIDEWALK, PLACE ½″ PREFORMED FIBER EXPANSION JOINT, CUT TO TEMPLATE, THROUGH NEW CONCRETE AND 1′ FROM JUNCTION WITH EXISTING CONCRETE, OR ALONG INSIDE EDGE OF SIDEWALK. WHERE PAVED APPROACH MEETS EXISTING BITUMINOUS CONSTRUCTION, OMIT JOINT.

SEE STANDARD PLAN 502.05 FOR TYPE AND LOCATION OF CONCRETE PAVEMENT JOINTS.

SEE STANDARD PLAN 609.00 FOR TRANSVERSE EXPANSION JOINT DETAILS.

WHERE DRAINAGE IS NOT TO BE CARRIED ACROSS THE PAVED APPROACH, SECTION A-A SHALL BE MODIFIED TO ELIMINATE THE "LIP" AND SHALL BE CROWNED AS DIRECTED BY THE ENGINEER.

IF SIDEWALKS ARE NOT INCLUDED IN CONSTRUCTION OF PAVED APPROACH, PLACE GROUND COVER, AS SHOWN ON PLANS, BEHIND CURB THROUGH RADIUS. GROUND COVER SHALL CONFORM TO FINISHED GRADING FOR CURB RAMP.

HAND FINISHING PERMITTED ON PAVED APPROACH.

THE APPROACH GRADE THROUGH THE LIMITS OF A SIDEWALK SHALL NOT EXCEED 2.00%.

SEE STANDARD PLAN 608.00 FOR PAVED APPROACH JOINT DETAILS.

VARIABLE HEIGHT TYPE A BARRIER CURB SHALL BE CONSTRUCTED ACCORDING TO STANDARD PLANS. PAID FOR PER SQUARE YARD ON CONCRETE CURB RAMP

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

NOT TO SCALE

STATE OF MISSOURI
ROBERT B. GREEN
NUMBER PE-25339
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED 3/3/2025

ROUTE	STATE
160	MO
DISTRICT	SHEET NO.
SW	14

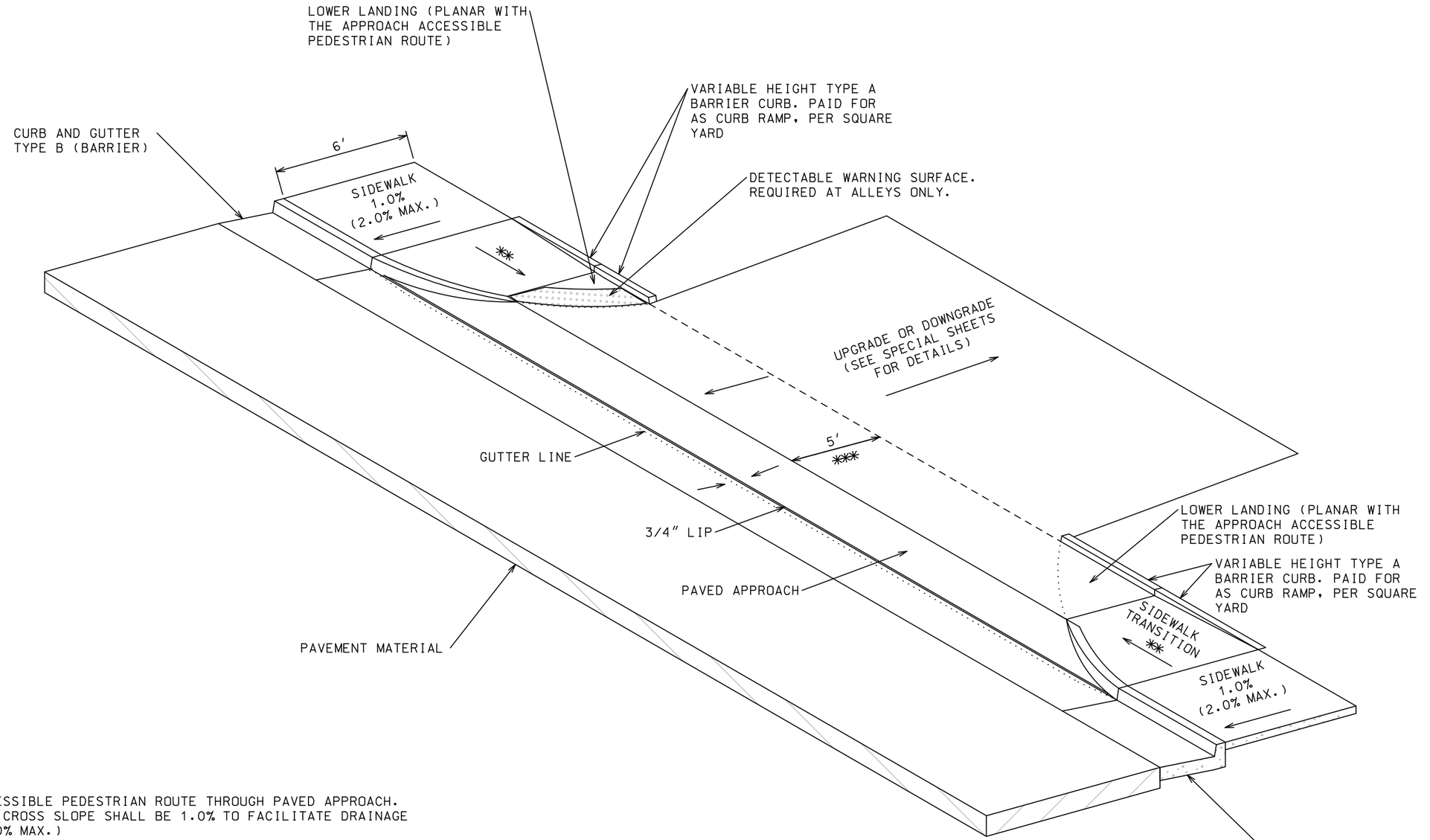
COUNTY BARTON
JOB NO. J7S3531B
CONTRACT ID.
PROJECT NO.
BRIDGE NO.

DESCRIPTION | DATE

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

Bartlett & West
601 MONROE ST. SUITE 201 - JEFFERSON CITY, MO 65101
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* ACCESSIBLE PEDESTRIAN ROUTE THROUGH PAVED APPROACH. THE CROSS SLOPE SHALL BE 1.0% TO FACILITATE DRAINAGE (2.0% MAX.)

** SIDEWALK TRANSITION 5% MAXIMUM SLOPE

*** NOTE THAT THE DIMENSION SHOWN ON THIS SHEET IS DESIRED. HOWEVER, EXISTING DRIVEWAYS WITH STEEPER GRADES MAY REQUIRE A 4' WIDE PEDESTRIAN ROUTE IN ORDER TO KEEP GRADE BREAKS TO A MINIMUM. REFER TO DRIVEWAY SECTIONS FOR FINAL DIMENSIONS AT EACH DRIVEWAY.

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ISOMETRIC VIEW
NON-SIGNALIZED ALLEY AND COMMERCIAL OR RESIDENTIAL APPROACHES WITH 6' SIDEWALKS

NOT TO SCALE

STATE OF MISSOURI
ROBERT B. GREEN
NUMBER PE-25339
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED: 3/3/2025

ROUTE	STATE
160	MO
DISTRICT	SHEET NO.
SW	15

COUNTY: BARTON

JOB NO.: J7S3531B

CONTRACT ID.:

PROJECT NO.:

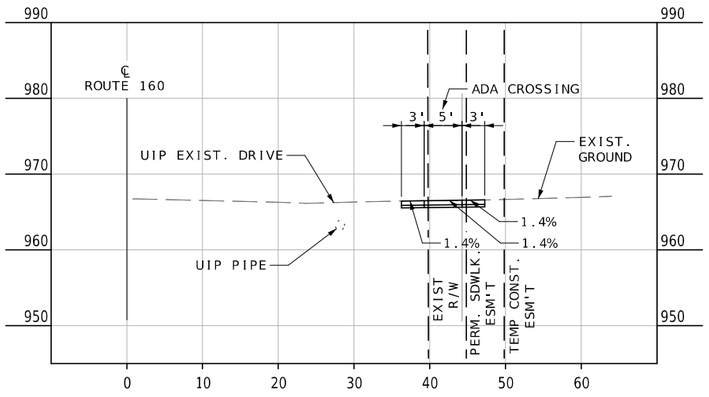
BRIDGE NO.:

DESCRIPTION	DATE

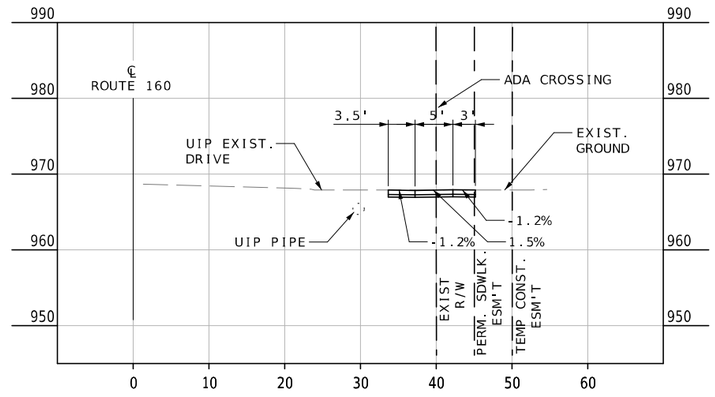
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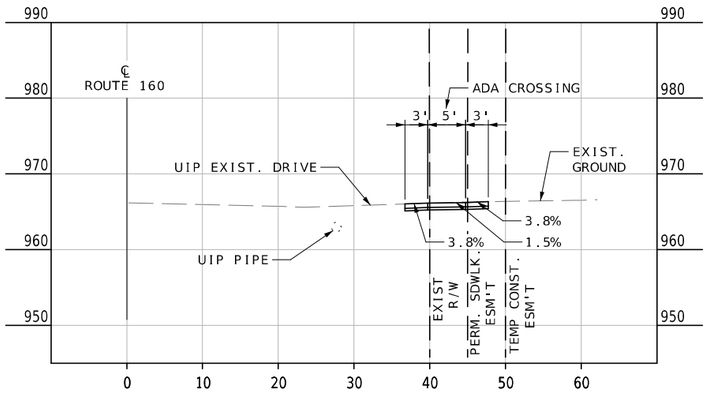
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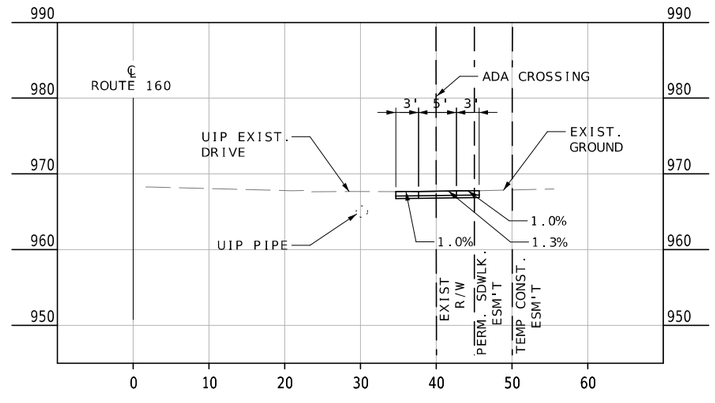
STA 1137+22.82 RT
8" PCC PE
42' WIDE
UIP PIPE



STA 1139+52.46 RT
8" PCC CE
50' WIDE
UIP PIPE



STA 1136+71.35 RT
8" PCC CE
38' WIDE
UIP PIPE



STA 1139+00.63 RT
8" PCC CE
40' WIDE
UIP PIPE

SPECIAL SHEET
DRIVE PROFILES
SHEET 6 OF 6

STATE OF MISSOURI
ROBERT B. GREEN
NUMBER PE-2539
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED
3/3/2025

ROUTE	STATE
160	MO
DISTRICT	SHEET NO.
SW	16

COUNTY
BARTON

JOB NO.
J7S3531B

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION	DATE

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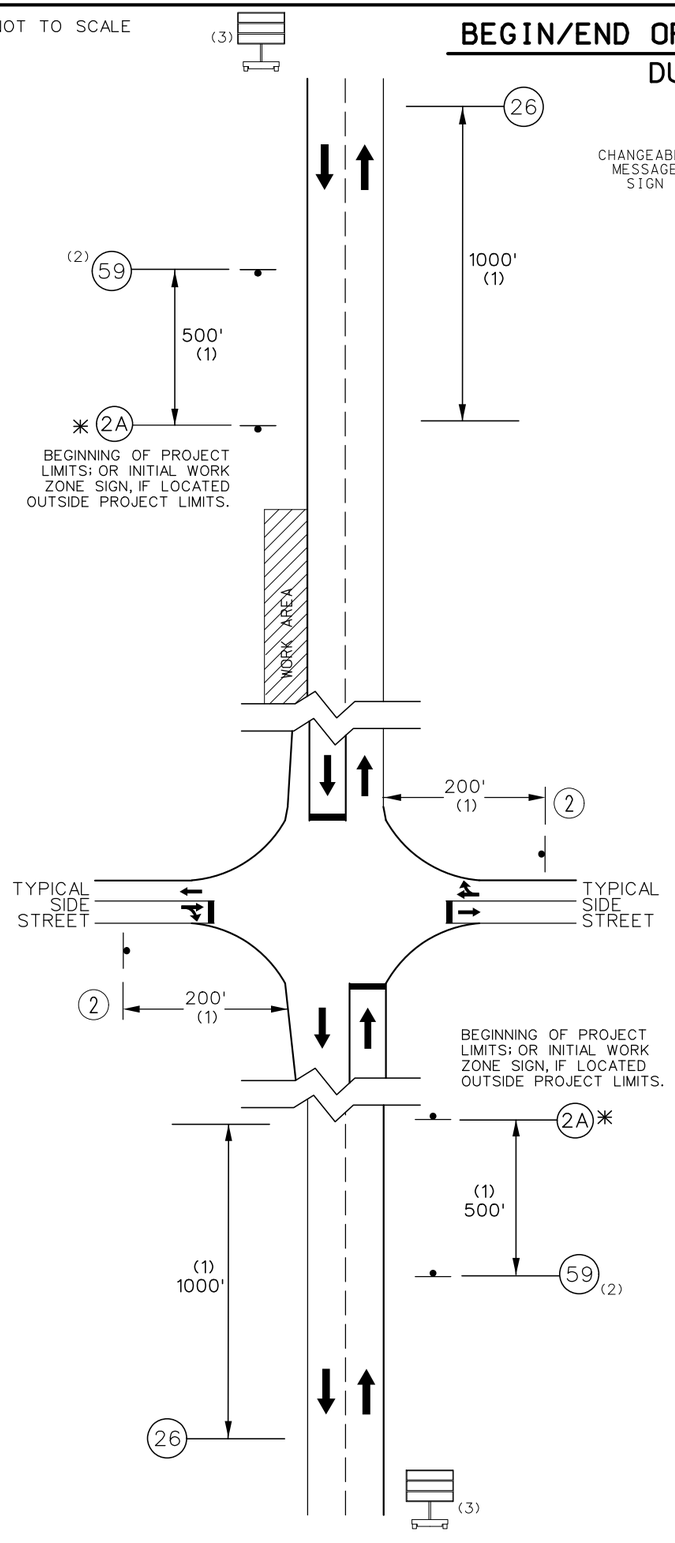
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NOT TO SCALE

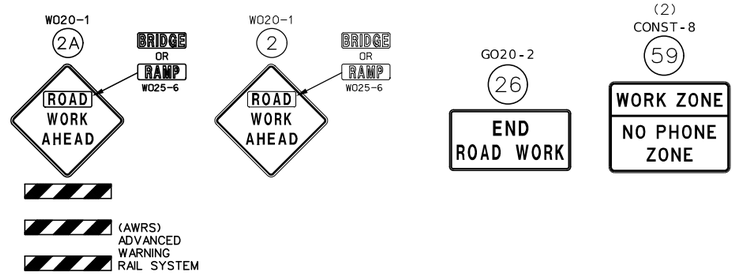
BEGIN/END OF PROJECT SIGNING

DUAL-LANE

EFFECTIVE: 06-08-2016
REVISED (ADA): 04-22-2024



CHANGEABLE MESSAGE SIGN (3)



GO20-2
26
END ROAD WORK

(2)
CONST-8
59
WORK ZONE
NO PHONE ZONE

✱ SIGN (2A) WITH AWRS MUST BE GROUND OR SKID MOUNTED.

SIGN SPACING FOR ADVANCE SIGN SERIES

SPACING BETWEEN SIGNS AND SPACING BETWEEN LAST SIGN AND FLAGGER, BEGINNING OF TAPER, OR SIGNED CONDITION.

SPACINGS MAY BE ADJUSTED AS NECESSARY TO MEET FIELD CONDITIONS.

SPEED MPH (S)	NON-DIVIDED HIGHWAYS	DIVIDED HIGHWAYS
0-35	200 FT	200 FT
40-45	350 FT	500 FT
50-55	500 FT	1000 FT
60-70	1000 FT	1000 FT

GENERAL NOTES:

1. ANY EXISTING SIGNING THAT CONFLICTS WITH THE TRAFFIC CONTROL SIGNING SHALL BE COMPLETELY COVERED OR REMOVED.
2. ALTERNATE TRAFFIC CONTROL MAY BE USED AS NEEDED AT THE APPROVAL OF THE ENGINEER.
3. SEE STANDARD DRAWING 616.10 AND 620.10 FOR ADDITIONAL DETAILS, AND 903.03 FOR SIGN AND SIGN MOUNTING REQUIREMENTS.
4. 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.
5. TEMPORARY SPEED LIMIT SIGNS SHALL BE COVERED OR REMOVED WHEN THE CONDITIONS REQUIRING REDUCED SPEEDS DO NOT EXIST.
6. NO DIRECT PAYMENT WILL BE MADE FOR THE RELOCATION OF CHANNELIZERS, CONST. SIGNS OR FLASHING ARROW PANEL.
7. NO DIRECT PAYMENT WILL BE MADE FOR TEMPORARY STOP OR YIELD SIGNS AS NEEDED TO MAINTAIN EXISTING STOP/YIELD CONDITIONS AS APPROVED BY THE ENGINEER.
8. ALL SIGNS, EXCEPT "RATE OUR WORK ZONE" SIGN, 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.
9. 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. ALL TRAFFIC CONTROL SHALL CONFORM TO THE LATEST EDITION OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD).
10. 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.
11. THE CONTRACTOR SHALL MAINTAIN PUBLIC ACCESS TO ALL BUSINESSES AND STREETS. NO STREET OR ENTRANCE SHALL BE COMPLETELY BLOCKED.
12. ALL PEDESTRIAN TRAFFIC CONTROL DEVICES SHALL REMAIN IN PLACE UNTIL THE CURB RAMP & SIDEWALK IS OPENED FOR PEDESTRIAN TRAVEL.
13. PEDESTRIAN TRAFFIC CONTROL SIGNS MAY BE MOUNTED ON PORTABLE MOUNTS AT 1 FT. PROVIDED THEY DO NOT INTERFERE WITH PEDESTRIAN MOVEMENT OR BE OBSTRUCTED BY PARKING. OTHERWISE, SIGNS SHALL BE MOUNTED AT 7 FT.
14. SPACING & DISTANCES OF TRAFFIC CONTROL DEVICES ARE APPROXIMATE. THE EXACT LOCATIONS SHALL BE DETERMINED IN THE FIELD & APPROVED BY THE ENGINEER.

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

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

TRAFFIC CONTROL
SHEET 1 OF 4

STATE OF MISSOURI
ROBERT B. GREEN
NUMBER PE-25339
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED SEALED AND DATED ELECTRONICALLY.

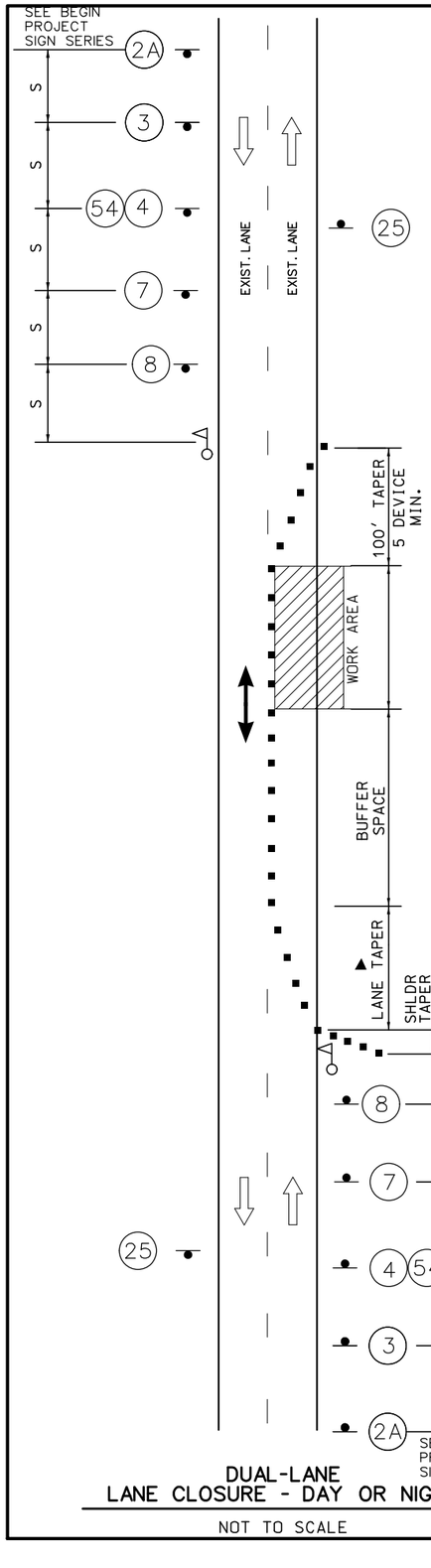
DATE PREPARED 3/3/2025
ROUTE 160 | STATE MO
DISTRICT SW | SHEET NO. 17
COUNTY BARTON
JOB NO. J7S3531B
CONTRACT ID.
PROJECT NO.
BRIDGE NO.

DESCRIPTION | DATE

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DUAL-LANE
LANE CLOSURE - DAY OR NIGHT

NOT TO SCALE

SIGNING REFLECTS DAY OR NIGHT TIME WORKING HOURS

NIGHT TIME WORK HOURS
7 PM - 6 AM

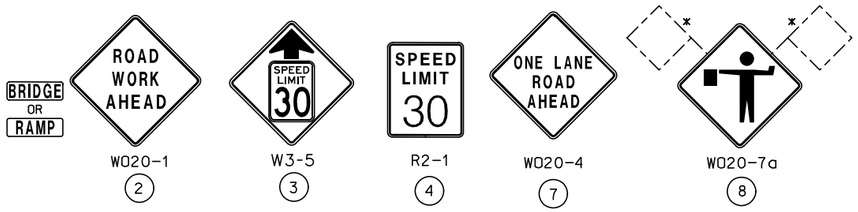
EFFECTIVE: 06-08-2016
REVISED (ADA): 04-22-2024

Speed Limit[1], mph	Taper Length[2], ft.		Channelizing Spacing [3], ft.	
	Shoulder[4] (T1)	Lane[5] (T2)	Tapers	Buffer/Work Areas
up to 35	70	245	35[6]	40[6]
40 to 45	150	540	40[6]	80[6]
50 to 55	185	660	50[7]	80[7]
60 to 70	235	840	60[7]	120[7]

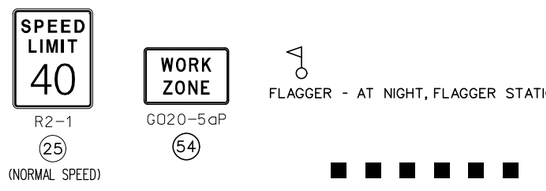
[1] Speed limit is based on posted speed limit.
[2] Taper lengths may be adjusted to accommodate crossroads, curves, intersections, ramps or other geometric features.
[3] Channelizer spacing may be reduced to discourage traffic encroachment.
[4] Based on 10 ft. shoulder width.
[5] Based on 12 ft. lane width.
[6] Spacing reduced to 1/2 at intersections.
[7] Spacing may be reduced to 1/2 at intersections.

Speed Limit[1], mph	Sign Spacing[2], ft.	
	Undivided Highway	Divided Highway
up to 35	200[3]	200[3]
40 to 45	350	500
50 to 55	500	1000
60 to 70	1000	SA-1000 SB-1500 SC-2640

[1] Speed limit is based on posted speed limit.
[2] Sign spacing may be adjusted, normally by increasing it, to accommodate field conditions and visibility.
[3] For urban low speed, minimum recommended spacing in MUTCD is 100 ft.



* SIGN W020-7A (FLAGGER SYMBOL) FLAGS ARE INCIDENTAL TO THE SIGN. NO DIRECT PAY.



NOTES:

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

▲ IN TAPER SECTIONS: QUANTITY OF TRIMLINE CHANNELIZERS IS DOUBLED WHEN COMPARED TO MAX. CHANNELIZER SPACING IN THE CHART.

TEMPORARY PAVEMENT MARKING REQUIRED WITH LONG TERM LANE CLOSURES (NO DIRECT PAY)

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

NO DIRECT PAYMENT WILL BE MADE FOR TEMPORARY STOP OR YIELD SIGNS AS NEEDED TO MAINTAIN EXISTING STOP/YIELD CONDITONS AS APPROVED BY THE ENGINEER.

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

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.

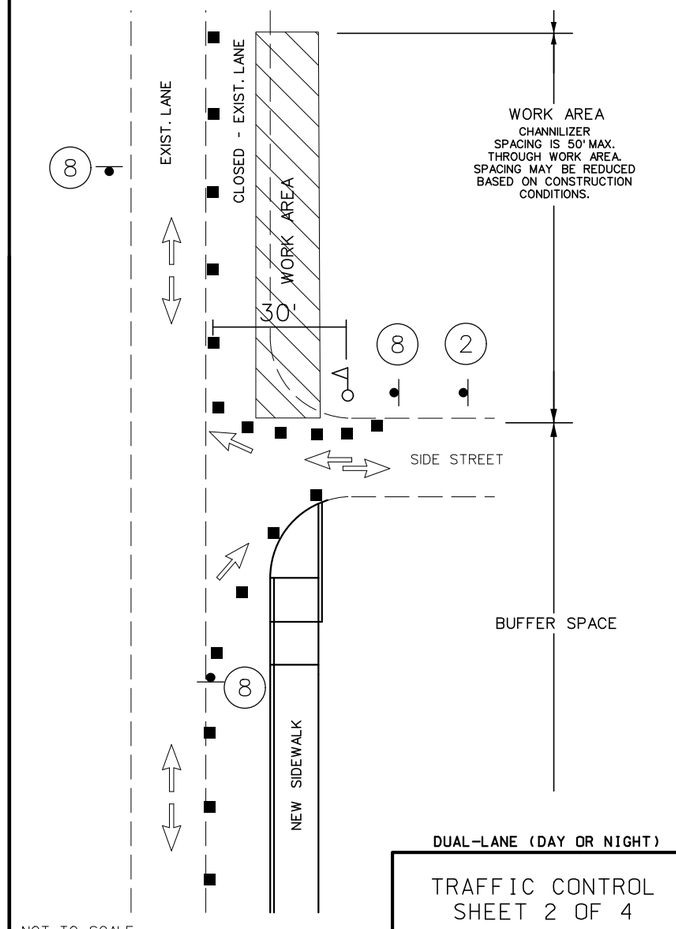
ALL SIGNS, EXCEPT "RATE OUR WORK ZONE", SHALL BE PORTABLE MOUNT AND ARE TO BE MOVED AS WORK PROGRESSES, UNLESS OTHERWISE NOTED. ALL TRAFFIC CONTROL ITEMS SHALL BE REMOVED FROM THE ROADWAY DURING NON-WORKING HOURS.

WORK WILL REQUIRE LANE CLOSURES UNLESS OTHERWISE APPROVED BY ENGINEER.

LAYOUT IS TYPICAL FOR EITHER DIRECTION. ALTERNATE TRAFFIC CONTROL MAY BE USED AS NEEDED AT THE APPROVAL OF THE ENGINEER. SEE STANDARD DRAWING 616.10 FOR ADDITIONAL DETAILS.

THE MAX. CHANNELIZER SPACING WITHIN THE WORK ZONE AREA MAY BE REDUCED BASED ON CONSTRUCTION CONDITIONS, AS APPROVED BY ENGINEER.

SIDE STREET FLAGGING DETAIL



DUAL-LANE (DAY OR NIGHT)

NOT TO SCALE

TRAFFIC CONTROL
SHEET 2 OF 4

STATE OF MISSOURI
ROBERT B. GREEN
NUMBER PE-25339
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED: 3/3/2025

ROUTE	STATE
160	MO
DISTRICT	SHEET NO.
SW	18

COUNTY: BARTON
JOB NO.: J7S3531B
CONTRACT ID.:
PROJECT NO.:
BRIDGE NO.:

DESCRIPTION	DATE

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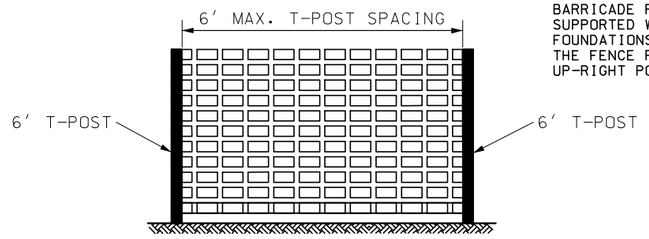
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CERTIFICATE OF AUTHORITY NO. 000167 - ENGINEERING
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REVISED: 11-19-2018

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.

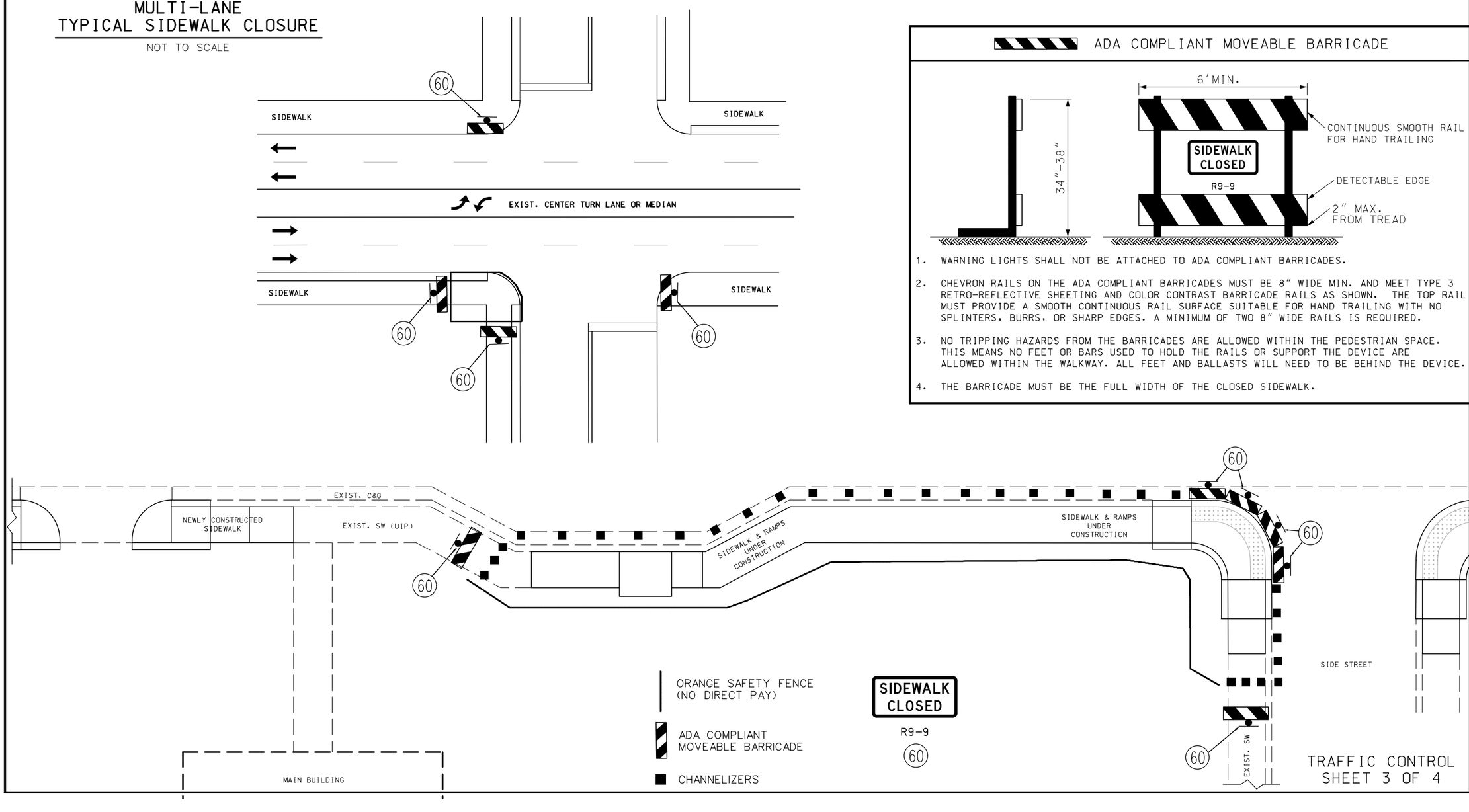
ORANGE PLASTIC SAFETY FENCE



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
ROBERT B. GREEN
NUMBER PE-25339
PROFESSIONAL ENGINEER
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ROUTE	STATE
160	MO
DISTRICT	SHEET NO.
SW	19

COUNTY: BARTON
JOB NO.: J7S3531B
CONTRACT ID.:
PROJECT NO.:
BRIDGE NO.:

DATE	DESCRIPTION

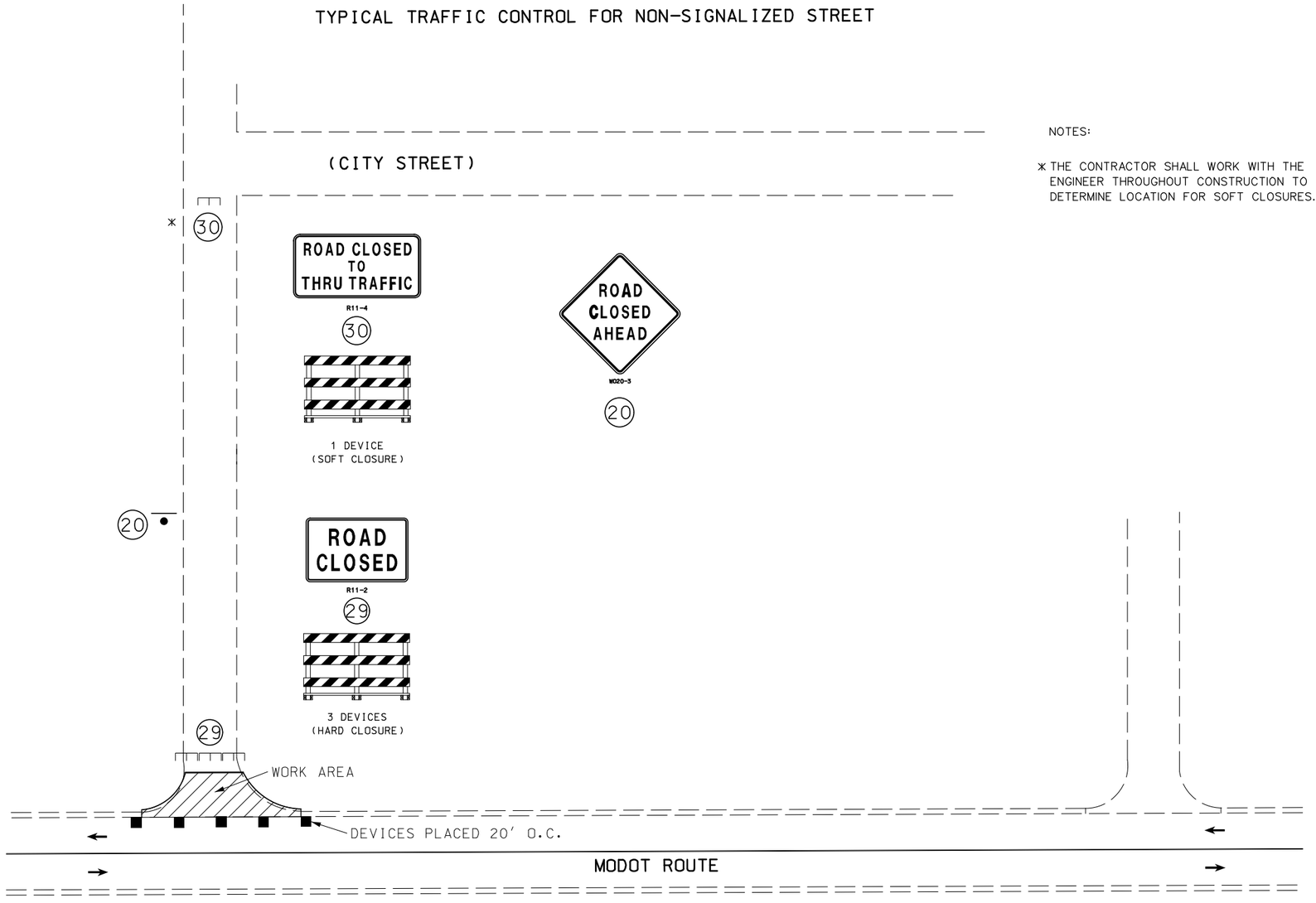
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TRAFFIC CONTROL
SHEET 3 OF 4

TYPICAL TRAFFIC CONTROL FOR NON-SIGNALIZED STREET



NOTES:

* THE CONTRACTOR SHALL WORK WITH THE ENGINEER THROUGHOUT CONSTRUCTION TO DETERMINE LOCATION FOR SOFT CLOSURES.

TRAFFIC CONTROL
SHEET 4 OF 4

STATE OF MISSOURI
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3/3/2025

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160	MO
DISTRICT	SHEET NO.
SW	20

COUNTY
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REVISED: 11-18-2021

NOTES:

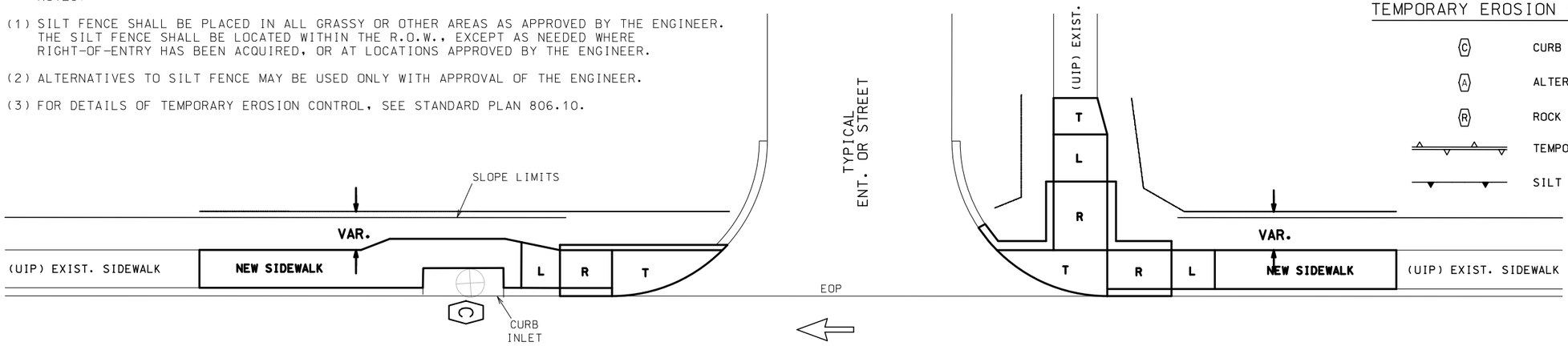
(1) SILT FENCE SHALL BE PLACED IN ALL GRASSY OR OTHER AREAS AS APPROVED BY THE ENGINEER. THE SILT FENCE SHALL BE LOCATED WITHIN THE R.O.W., EXCEPT AS NEEDED WHERE RIGHT-OF-ENTRY HAS BEEN ACQUIRED, OR AT LOCATIONS APPROVED BY THE ENGINEER.

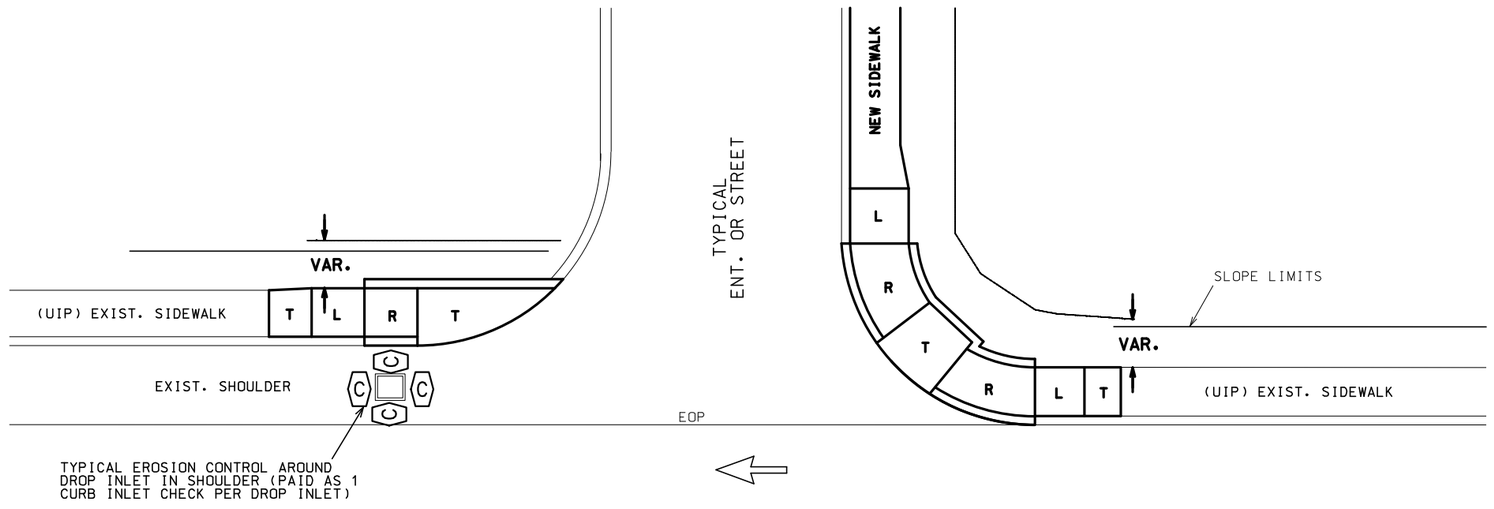
(2) ALTERNATIVES TO SILT FENCE MAY BE USED ONLY WITH APPROVAL OF THE ENGINEER.

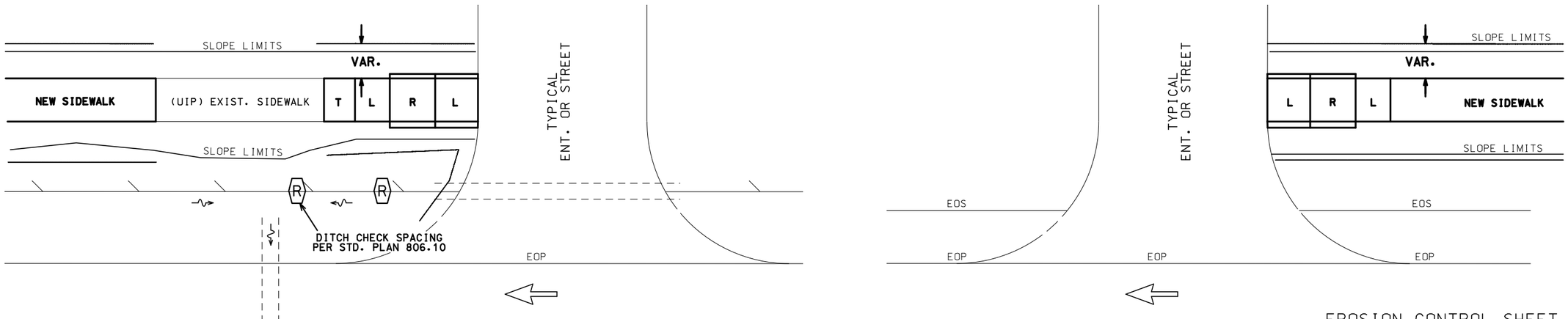
(3) FOR DETAILS OF TEMPORARY EROSION CONTROL, SEE STANDARD PLAN 806.10.

TEMPORARY EROSION CONTROL LEGEND

- (C) CURB INLET CHECK
- (A) ALTERNATE CHECK
- (R) ROCK DITCH CHECK
- TEMPORARY BERM
- SILT FENCE







NOT TO SCALE

TYPICAL EROSION CONTROL APPLICATIONS
FOR NEW CURB RAMP & SIDEWALK CONSTRUCTION

EROSION CONTROL SHEET
SHEET 1 OF 1

STATE OF MISSOURI
ROBERT B. GREEN
NUMBER PE-25339
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED: 3/3/2025
ROUTE: VAR. | STATE: MO
DISTRICT: SW | SHEET NO.: 21
COUNTY: NEWTON
JOB NO.: J7S3506
CONTRACT ID.:
PROJECT NO.:
BRIDGE NO.:

DESCRIPTION | DATE

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

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

Bartlett & West
601 MONROE ST. SUITE 201 - JEFFERSON CITY, MO 65101
PHONE 573-634-3181
CERTIFICATE OF AUTHORITY NO. 000167 - ENGINEERING
WWW.BARTLETTWEST.COM

SUMMARY OF SIGNAL QUANTITIES

PAY ITEM	DESCRIPTION	UNIT	QUAN	ROUTE 160 AT GULF
902.08-11	SIGNAL HEAD, TYPE 1S, PEDESTRIAN	EA	8	8
902.27-08	POST, SIGNAL 8 FT	EA	6	6
902.49-21	ACCESSIBLE PEDESTRIAN SIGNAL	EA	8	8
902.50-20	CONDUIT, 1 IN., LOOP DETECTOR WITH TRACER WIRE	LF	69	69
902.53-00	CONDUIT, 3 IN., TRENCH WITH TRACER WIRE	LF	245	245
902.73-00	CONDUIT, 3 IN., PUSHED WITH TRACER WIRE	LF	352	352
902.81-00	CABLE, 10 AWG 1 CONDUCTOR, POLE AND BRACKET	LF	360	360
902.82-01	CABLE, 1 AWG 1 CONDUCTOR, POWER	LF	540	540
902.83-02	CABLE, 12 AWG 2 CONDUCTOR	LF	540	540
902.83-08	CABLE, 16 AWG 2 CONDUCTOR	LF	1,180	1,180
902.83-10	CABLE, 16 AWG 5 CONDUCTOR	LF	1,180	1,180
902.83-11	CABLE, 16 AWG 7 CONDUCTOR	LF	1,070	1,070
902.85-00	CABLE, LOOP DETECTOR, IN DUCT	LF	2,180	2,180
902.85-10	CABLE, LOOP DETECTOR, LEAD-IN	LF	860	860
902.88-20	PULL BOX, CONCRETE, STANDARD	EA	1	1
902.88-21	PULL BOX, CONCRETE, DOUBLE, TYPE A	EA	2	2
902.91-00	BASE, CONCRETE	CY	4.0	4.0
902.99-02	MISC. {2070 SIGNAL CONTROLLER AND CABINET}	EA	1	1
902.99-02{1}	MISC. {RELOCATE POWER SUPPLY}	EA	1	1
902.99-02{2}	MISC. {PUSH BUTTON EXTENSION}	EA	3	3

✳ SIGNAL QUANTITIES SHOWN ON THIS SHEET ARE FOR INFORMATIONAL PURPOSES ONLY.
SEE SIGNAL QUANTITY SHEET FOR OFFICIAL QUANTITIES.

SUMMARY OF SIGNAL QUANTITIES
SIGNAL SHEET 1 OF 4

STATE OF MISSOURI
JASON MICHAEL SOMMERER
NUMBER PE-2008002211
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED 4/21/2025
ROUTE 160 | STATE MO
DISTRICT SW | SHEET NO. 22
COUNTY BARTON
JOB NO. J7S3531B
CONTRACT ID.
PROJECT NO.
BRIDGE NO.

DESCRIPTION	DATE

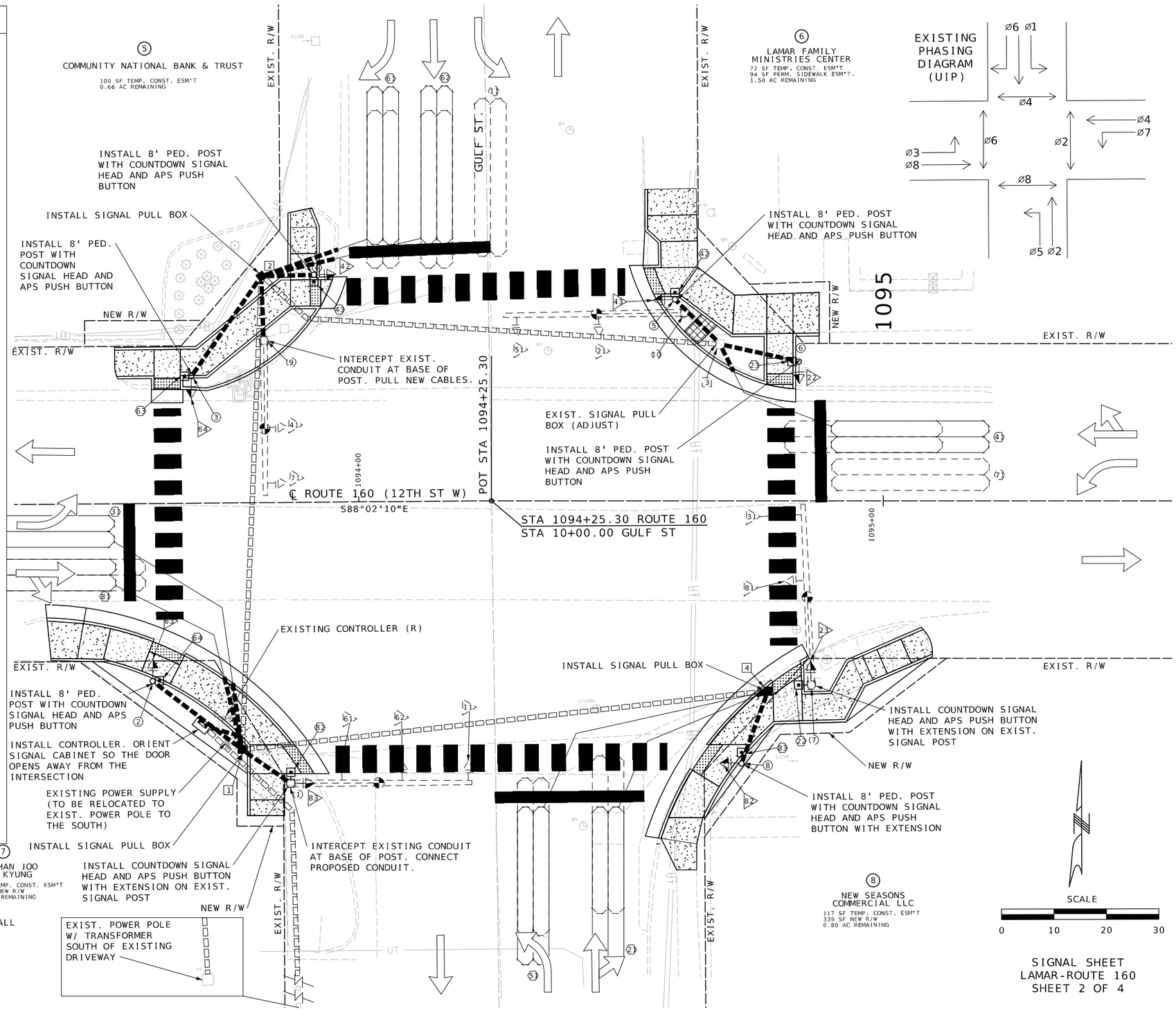
IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

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105 WEST CAPITOL
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TRAFFIC SIGNALS LEGEND

- CONTROLLER
- CONTROLLER (EXISTING)
- JUNCTION BOX
- POWER SUPPLY
- WOOD POST
- SIGNAL HEAD (OPT LIM CONV)
- SIGNAL HEAD (OPT LIM)
- SIGNAL HEAD (PEDESTRIAN)
- SIGNAL HEAD (STANDARD)
- CCTV CAMERA
- VIDEO DETECTOR
- PUSH BUTTON DETECTOR
- PREFORMED PULL BOX TYPE 1
- PREFORMED PULL BOX TYPE 2
- CONCRETE PULL BOX TYPE 1
- CONCRETE PULL BOX TYPE 2
- ITS PULL BOX TYPE 2
- ITS PULL BOX TYPE 5
- 6 X 6 LOOP DETECTOR
- 6 X 15 LOOP DETECTOR
- 30 X 6 LOOP DETECTOR
- CONDUIT MEDIAN
- CONDUIT PUSHED
- CONDUIT BRIDGE
- CONDUIT EXISTING
- CONDUIT TRENCHED
- SPAN WIRE
- MAST ARM - TYPE A BASE
- MAST ARM - TYPE C BASE
- MAST ARM - TYPE F BASE



GENERAL NOTE (SIGNAL SHEETS)

1. TRAFFIC FLOW ARROWS SHOWN FOR DIAGRAM PURPOSES ONLY. DO NOT INSTALL PAVEMENT MARKING ARROWS UNLESS SPECIFIED IN THE PLANS.

2. SEE ROADWAY PLANS FOR DETAILS OF EXISTING EASEMENTS.

SIGNAL SHEET
LAMAR-ROUTE 160
SHEET 2 OF 4

STATE OF MISSOURI
JASON MICHAEL SOMMERER
NUMBER PE-2008002111
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED SEALED AND DATED ELECTRONICALLY.

DATE PREPARED 3/25/2025

ROUTE	STATE
160	MO
DISTRICT	SHEET NO.
SW	23

COUNTY: BARTON
JOB NO.: J7S3531B
CONTRACT ID.:
PROJECT NO.:
BRIDGE NO.:

DESCRIPTION	DATE

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
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CONDUIT (WITH #14 TRACER WIRE)

FROM	TO	CENTER TO CENTER DISTANCE	LOOP DET.	TRENCH		PUSHED
			1″	2″	3″	3″
SC	PS	156				165
PB1	1	11			12	
PB1	2	31			32	
PB1	SC	10			18 ##	
PB1	⟨31⟩	12	13			
PB1	⟨81⟩	14	15			
PB2	PB1	90				88
PB4	7	9			USE EXISTING	
PB4	8	15			16	
PB4	PB1	101				99
PB4	⟨21⟩	2	1			
PB4	⟨51⟩	3	2			
PB3	5	12			13	
PB3	6	16			17	
PB3	10	9			USE EXISTING	
PB3	PB2	91			89	
PB3	⟨41⟩	5	6			
PB2	3	23			24	
PB2	4	10			11	
PB2	9	12			13	
PB2	⟨61⟩	15	16			
PB2	⟨62⟩	15	16			
	TOTALS		69		245	352

2 RUNS

CABLE

FROM	TO	CENTER TO CENTER DISTANCE	POWER		CONTROL				LUMINAIRE		DETECTOR		
			1c#1	1c#8	2c #16	5c #16	7c #16	VIDEO	CONTROL 2C#12	POLE& BRACKET 1C#10	1c #14 IN DUCT	2c #14 LEAD-IN CABLE	
SC	PS	159	531										3 RUNS
SC	1	20			43	43	237#		34	90			
SC	2	31			54	55							
SC	[1]	10										42	2 LICs
SC	⟨31⟩	52									325		
SC	⟨81⟩	44									317		
SC	3	123			152	153							
SC	4	110			139	140							
SC	9	112					234		132	90			
SC	[2]	100										351	3 LICs
SC	⟨61⟩	21									294		
SC	⟨62⟩	31									304		
SC	5	203			238	239							
SC	6	206			241	242							
SC	10	200					338		226	90			
SC	[3]	191										214	1 LIC
SC	⟨41⟩	29									302		
SC	7	125			154	154	257		145	90			
SC	8	125			154	155							
SC	[4]	111										256	2 LICs
SC	⟨21⟩	39									312		
SC	⟨51⟩	53									326		
	SUBTOTALS		531		1,175	1,181	1,066		537	360	2,180	863	
	TOTALS		540		1,180	1,180	1,070		540	360	2,180	860	

INCLUDES JUMPER

POST NUMBER	PULL BOX NUMBER	LOCATION QUADRANT	STATION	OFFSET	BASE C	BASE CONCRETE✳✳ (CU. YDS.)	PULL BOX PREFORMED CLASS 1	PREFORMED CLASS 2	PREFORMED CLASS 3	PREFORMED CLASS 5	CONCRETE STANDARD	CONCRETE DOUBLE, TYPE A	CONCRETE DOUBLE, TYPE B	DRAIN TYPE✳ I	DRAIN TYPE✳ II A	DRAIN TYPE✳ II B	DRAIN TYPE✳ II C	UIP EXISTING✳	ADJUST EXISTING✳	POST TOP MOUNT POST 8 FT.	POST TOP MOUNT POST &-8 FT.	POST TOP MOUNT POST 15 FT.	POST UIP EXISTING✳
SC		SW CORNER	1093+72.04	RT. 41.7′		1.31																	
1		SW CORNER	EXISTING																				1
2		SW CORNER	1093+62.47	RT. 33.6′	1	0.44														1			
	PB1	SW CORNER	1093+79.66	RT. 46.6′								1			1								
3		NW CORNER	1093+70.56	LT. 24.4′	1	0.44														1			
4		NW CORNER	1093+94.16	LT. 43.5′	1	0.44														1			
9		NW CORNER	EXISTING																				1
	PB2	NW CORNER	1093+81.74	LT. 43.1′								1			1								
5		NE CORNER	1094+62.47	LT. 38.4′	1	0.44														1			
6		NE CORNER	1094+86.07	LT. 26.6′	1	0.44														1			
10		NE CORNER	EXISTING																				1
	PB3	NE CORNER	EXISTING																1				
7		SE CORNER	EXISTING																				1
8		SE CORNER	1094+75.16	RT. 50.0′	1	0.44														1			
	PB4	SE CORNER	1094+80.19	RT. 36.2′								1			1								
				SUBTOTALS		3.95						1	2										
				TOTALS		4.0						1	2						✳	6			

& = RELOCATE EXISTING POST

POWER SUPPLY

LOCATION APPROACH	LOCATION STATION	LOCATION OFFSET	POWER SUPPLY ASSEMBLY DRAWING 902.15	POWER SUPPLY ASSEMBLY DRAWING	CIRCUIT BREAKER TRIP RATING* CONTROLLER AUXILIARY BREAKER	CONTROLLER CONT & SIGNAL LAMPS	POWER SUPPLY DISCONNECT MAIN BREAKER SIGNALS	POWER SUPPLY DISCONNECT MAIN BREAKER LIGHTING	RELOCATE POWER SUPPLY
SW CORNER	&	&	Type		Amps	Amps	100 Amps	100 Amps	1 &
			Type		Amps	Amps	Amps	Amps	

&: RELOCATE TO EXISTING POLE SOUTH OF DRIVEWAY ADJACENT TO SW CORNER

SIGNAL HEADS

POST NUMBER	FACE NUMBER	INDICATIONS ✳ 12″ LENS CONVENTIONAL R	RL	Y	YL	YR†	FYL	G	S	L	R†	🚶	12″ LENS OPTICAL LIMITING R	Y	YL	YR†	YL	YR†	G	S	L	R†	VISORS ✳ 12″ LENS	PED.	RELOCATE EXISTING 🚶	UIP EXISTING ✳ 🚶
1	83											1												1		
2	63											1												1		
3	64											1												1		
4	42											1												1		
5	43											1												1		
6	22											1												1		
7	23											1												1		
8	82											1												1		
TOTALS												8														

CONTROLLER ASSEMBLY AND AUXILIARY EQUIPMENT

LOCATION STATION	LOCATION OFFSET	SYSTEM MASTER (CLOSED LOOP) NEMA	SYSTEM MASTER (CLOSED LOOP) 2070	ACTUATED NEMA	ACTUATED 2070	ON-OFF✳ SWITCH TYPE I	ON-OFF✳ SWITCH TYPE II	COORDINATION INTERFACE ✳ 12C/7C HARDWIRE (1) MASTER	12C/7C HARDWIRE (1) LOCAL	TIME BASE	CLOSED LOOP NEMA	CLOSED LOOP 2070	FIBER	TIME ✳ CLOCK	NEMA CABINET TYPE ✳ E	NEMA CABINET TYPE ✳ EV	NEMA CABINET TYPE ✳ DOUBLE	2070 CABINET TYPE ✳ 332	2070 CABINET TYPE ✳ 336S	2070 SOFTWARE ✳ BITRAN	2070 SOFTWARE ✳ WAPITI
1093+72.04	RT. 41.7′				1	1				1				1				1				

SIGNAL SIGNS

QUANTITY	MUTCD SIGN NUMBER	SIZE	AREA	SIGN TOTAL AREA ITEM NO. 9020833	SIGNAL SIGN MOUNTING HARDWARE ITEM NO. 9020834
		INCHES	SQ.FT.	SQ.FT.	EA.
	R10-10L	24 X 30	5.0		
	R10-10R	24 X 30	5.0		
	R3-5L	30 X 36	7.5		
	R3-5R	30 X 36	7.5		
	R3-5A	30 X 36	7.5		
	R3-6L	30 X 36	7.5		
	R3-6R	30 X 36	7.5		
	R3-2	24 X 24	4.0		
	R3-1	24 X 24	4.0		
	R3-3	24 X 24	4.0		
	D3-1 ✳✳✳	90 X 18	11.3		
	D3-1 ✳✳✳	60 X 18	7.5		
8	R10-3E	9 X 15	0.9	&&	&&
	R10-11A	24 X 30	5.0		
	R10-13	36 X 24	6.0		
	R10-27A	30 X 36	7.5		
	R10-12	30 X 36	7.5		
			SUBTOTAL	&&	&&
			TOTAL	&&	&&

&&: PEDESTRIAN SIGNS AND MOUNTING HARDWARE INCLUDED IN BID ITEM FOR APPS.

DETECTOR SCHEDULE

DETECTOR NUMBER	PHASE	TYPE PUSH BUTTON APS	TYPE PUSH BUTTON EXTENSION	RELOCATE EXISTING APS	UIP EXISTING APS ✳	INDUCTION LOOP (2) STANDARD	UIP EXISTING INDUCTION LOOP ✳
22	2	1	1				
23	2	1					
42	4	1					
43	4	1					
63	6	1					
64	6	1					
82	8	1	1				
83	8	1	1				
11	1						1
61	6						1
62	6						1
41	4					1	
71	7						1
21	2					1	
51	5					1	
31	3					1	
81	8					1	
	SUBTOTAL						
	TOTALS	8	3			5	

(2) UIP EXISTING DETECTOR CARDS. NO DIRECT PAY

REMARKS

ALL LENGTHS AND SPACINGS ARE IN FEET UNLESS OTHERWISE INDICATED.

✳ ITEMS FOR WHICH SEPARATE PAYMENT WILL NOT BE MADE.

✳✳ SEE STANDARD PLANS 902.10 AND 902.30 FOR CONCRETE REQUIREMENTS ON BASES.

✳✳✳ USE D3-16 FOR ONE LINE. USE D3-18 FOR TWO LINE.

SIGNAL STRUCTURES WHICH WILL EXCEED THE DIMENSION LIMITS SHOWN ON STANDARD PLAN SHEETS IN SECTION 902 AND ANY OTHER INSTALLATION WHERE THE DETAILS OF CONSTRUCTION ARE NOT FURNISHED IN THE CONTRACT PLANS, SHALL BE DESIGNED BY A PROFESSIONAL ENGINEER IN ACCORDANCE WITH THE 2001 AASHTO STANDARD SPECIFICATIONS FOR STRUCTURAL SUPPORTS FOR HIGHWAY SIGNS, LUMINAIRES AND TRAFFIC SIGNALS, 4TH EDITION, AND LATEST INTERIMS. THE STRUCTURE SHALL BE DESIGNED AS IMPORTANCE CATEGORY I FOR FATIGUE WITH A 50-YEAR DESIGN LIFE. THE CONTRACTOR SHALL SUBMIT A SET OF SHOP DETAIL DRAWINGS INCLUDING WELD PROCEDURE SPECIFICATIONS AND DESIGN COMPUTATIONS FOR MODOT RECORDS AND REFERENCE. THE SUBMITTED DRAWINGS AND CALCULATIONS SHALL BE SIGNED AND SEALED IN ACCORDANCE WITH THE LAWS RELATING TO ARCHITECTS AND PROFESSIONAL ENGINEERS (CHAPTER 327, RSMO.), AND SHALL INCLUDE A TITLE BLOCK OR SUMMARY SHEET WHICH LISTS AND CERTIFIES THAT THE PRODUCT MEETS ALL OF THE SPECIFIED DESIGN CRITERIA.

ROUTE 160 (12TH ST. W) & GULF ST.

INTERSECTION

SIGNAL SHEET
LAMAR - ROUTE 160
SHEET 3 OF 4

STATE OF MISSOURI
JASON MICHAEL SOMMERER
NUMBER PE-2008002211
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED SEALED AND DATED ELECTRONICALLY.

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DESCRIPTION | DATE

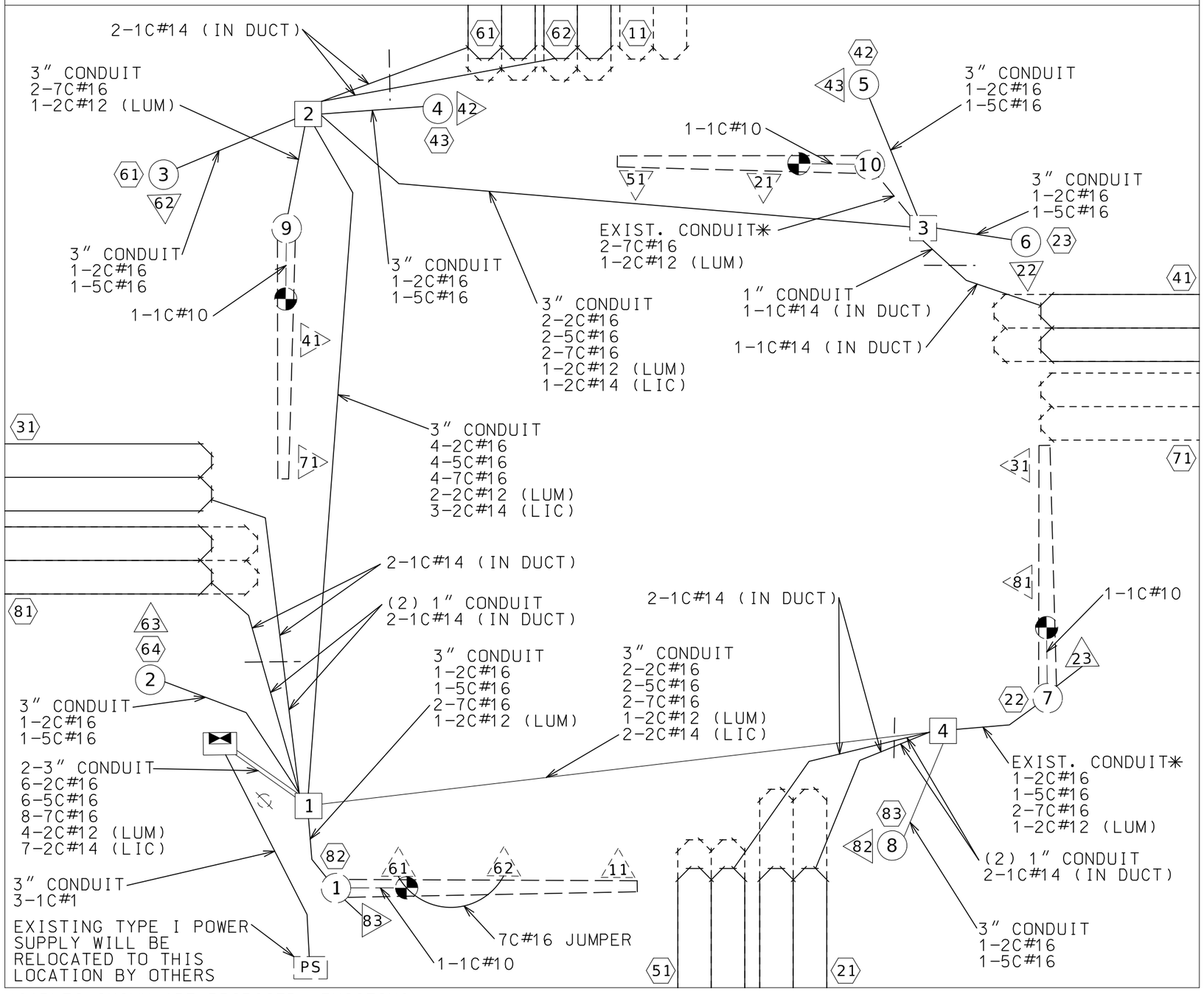
DATE PREPARED 4/21/2025
ROUTE 160 | STATE MO
DISTRICT SW | SHEET NO. 24
COUNTY BARTON
JOB NO. J7S3531B
CONTRACT ID.
PROJECT NO.
BRIDGE NO.

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
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Bartlett & West
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WWW.BARTLETTWEST.COM

EFFECTIVE 12-01-17

WIRING DIAGRAM



*CABLES SHOWN ARE PROPOSED. EXISTING CONDUIT CONATINS ADDITIONAL CABLES.

ROUTE 160 (12TH ST.) AT GULF ST.

INTERSECTION

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	DETECTOR WITH NUMBER
X	PEDESTRIAN SIGNAL HEAD WITH NUMBER
	SIGNAL CONTROLLER
X	PULL BOX WITH NUMBER (EXISTING)
X	POST WITH NUMBER (EXISTING)
X	POST WITH MAST ARM (EXISTING)
X	DETECTOR WITH NUMBER (EXISTING)
X	PEDESTRIAN SIGNAL HEAD WITH NUMBER (EXISTING)
	SIGNAL CONTROLLER (EXISTING)
	POWER SUPPLY (EXISTING)
PS	POWER SOURCE (EXISTING)

SIGNAL SHEET
LAMAR-ROUTE 160
SHEET 4 OF 4

D-37D

STATE OF MISSOURI
JASON MICHAEL SOMMERER
NUMBER PE-2008002211
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED 3/3/2025

ROUTE	STATE
160	MO
DISTRICT	SHEET NO.
SW	25

COUNTY: BARTON
JOB NO.: J7S3531B
CONTRACT ID.:
PROJECT NO.:
BRIDGE NO.:

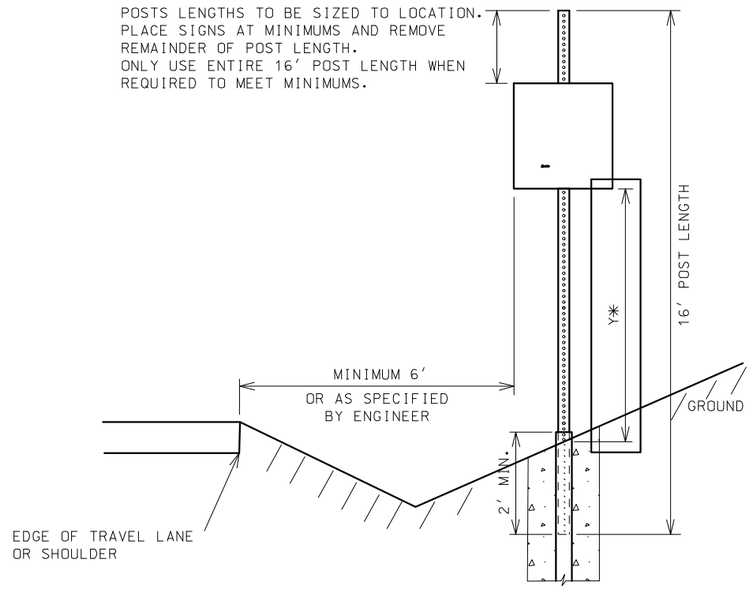
DESCRIPTION	DATE

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MOUNTING HEIGHT DETAIL



* FOR RURAL AREAS – 80" MINIMUM REQUIRED WHEN SIGNS ARE LOCATED ALONG AND WITHIN A PEDESTRIAN ROUTE. IN SITUATIONS WHERE THE SIGN IS NOT LOCATED WITHIN THE PEDESTRIAN ROUTE THE MINIMUM HEIGHT COULD BE REDUCED TO 7' IF 80" IS NOT ACHEIVABLE WITH A 16' POST.
FOR URBAN AREAS – MINIMUM REQUIRED HEIGHT SHALL BE 84" WHETHER OR NOT IT IS WITHIN A PEDESTRIAN ROUTE

NOTE: PERFORATED SQUARE STEEL TUBE (PSST) POSTS ARE PAID AS 16 LINEAR FOOT. CONTRACTOR IS RESPONSIBLE TO PROPERLY PLACE SIGN AS SHOWN ABOVE IN "MOUNTING HEIGHT DETAIL"

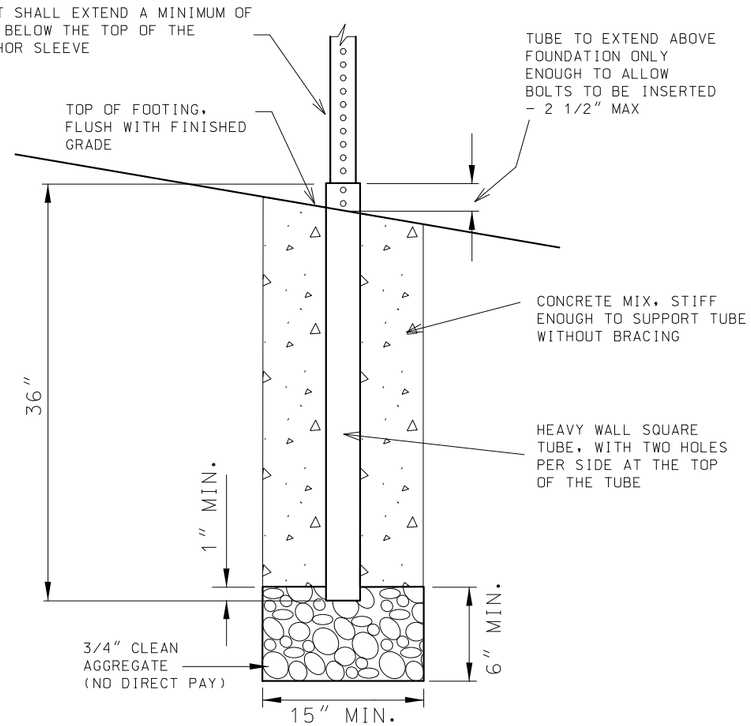
POSTS – 12 GAUGE – 2.5" X 2.5"

ANCHORS – 7 GAUGE – 3" X 3" O.D.

BREAKAWAY – CERTIFIED NCHRP 350 COMPLIANT USE REQUIRED FOR DOUBLE POST INSTALLATIONS ONLY

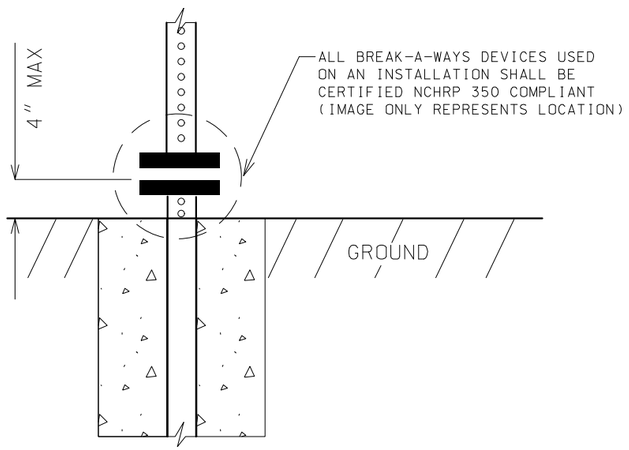
GALVANIZATION – ALL PSST POSTS, ANCHORS AND BREAKAWAY CASTINGS SHALL BE GALVANIZED PER MoDOT STANDARD SPECIFICATIONS

CONCRETE FOOTING DETAIL



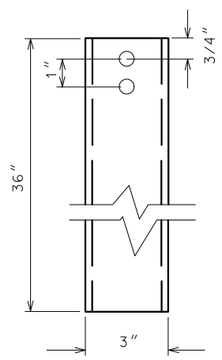
PSST CONCRETE FOOTINGS EMBEDDED PAID AS 3' LENGTH, 15" DIAMETER = 0.14 CUBIC YARDS
REQUIRED AGGREGATE CONSIDERED INCIDENTIAL AND INCLUDED IN CONCRETE FOOTING

BREAKAWAY DETAIL



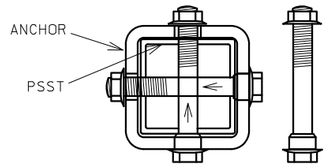
WHEN BREAKAWAY DEVICES ARE REQUIRED THE PORTION FIXED TO THE GROUND ANCHOR SHALL BE NO HIGHER THAN 4" ABOVE THE FINISHED GRADE

7 GAUGE ANCHOR FABRICATION DETAIL FOR 2.5" PSST



ANCHOR BOLT DETAIL FOR 2.5" PSST

2 SHOULDER BOLTS REQUIRED
INSTALLED PERPENDICULAR TO EACH OTHER



3/8" X 3.5" SHOULDER BOLT AND NUT

SIGNING SHEET
SHEET 1 OF 3

STATE OF MISSOURI
ROBERT B. GREEN
NUMBER PE-25339
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED 3/3/2025
ROUTE 160 | STATE MO
DISTRICT SW | SHEET NO. 26
COUNTY BARTON
JOB NO. J7S3531B
CONTRACT ID.
PROJECT NO.
BRIDGE NO.

DESCRIPTION | DATE

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

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

Bartlett & West
601 MONROE ST. SUITE 201 - JEFFERSON CITY, MO 65101
PHONE 573-634-3181
CERTIFICATE OF AUTHORITY NO. 000167 - ENGINEERING
WWW.BARTLETTWEST.COM

SIGNS						CONCRETE FOOTINGS EMBEDDED	STRUCTURAL STEEL POSTS*						PIPE POSTS*					BACKING BARS**				U-CHANNEL POST	PERFORATED SQUARE STEEL TUBE									BREAK-AWAY ASSEMBLY	REMARKS AND OTHER REQUIRED ITEMS
902 SIGNAL SIGNS TABULATED ON D-37A SHEET																						2-INCH POST						2.5-INCH POST						
																									ANCHORS					ANCHORS			
SIGN NO.	SIGN SIZE	STATION OR LOG MILE	HORIZ CLEAR IF NOT STD	LOCATION	SIGN DTL SHT NO.	ITEM NO. 9031010	POST DES NO.	POST NO.1	POST NO.2	POST NO.3	LBS PER FT	TOTAL ITEM NO. 9031210	PIPE SIZE	POST NO.1	POST NO.2	LBS PER FT	TOTAL ITEM NO. 9031220	2" X 3/8" BARS AT 2.55 LBS/FT NO.	LGTH	TOTAL	TOTAL	ITEM NO. 9031250A	POST NO.1	POST NO.2	TOTAL ITEM NO. 9031270A	DRIVEN 12 GA. ITEM NO. 9031271A	DRIVEN 7 GA. ITEM NO. 9031273A	CONCRETE 7 GA. ITEM NO. 9031274	POST NO.1	POST NO.2	TOTAL ITEM NO. 9031280	2.25" INSERT (6 FT) ITEM NO. 9031272A	DRIVEN 7 GA. ITEM NO. 9031281A	CONCRETE 7 GA. ITEM NO. 9031285	ITEM NO. 9031241	
						CY		LF	LF	LF		LBS	IN	LF	LF		LBS	EACH	IN.	LF	LBS	LF	LF	LF		EACH	EACH	EACH				EACH	EACH	EACH	EACH	
1	36 X 36	1083+98	20.03'	RIGHT																									16		16			1	1	
2	36 X 36	1085+98	18.62'	RIGHT																									16		16			1	1	
3	36 X 36	1086+09	30.58'	LEFT																									16		16			1	1	
4	36 X 36	1088+09	24.44'	LEFT																									16		16			1	1	
5	36 X 36	1098+44	24.84'	RIGHT																									16		16			1	1	
6	36 X 36	1098+61	22.62'	LEFT																									16		16			1	1	
7	36 X 36	1102+62	28.12'	RIGHT																									16		16			1	1	
8	36 X 36	1102+74	20.13'	LEFT																									16		16			1	1	
9	36 X 36	1108+61	32.91'	RIGHT																									16		16			1	1	
10	36 X 36	1108+71	18.46'	LEFT																									16		16			1	1	
11	36 X 36	1110+71	16.37'	LEFT																									16		16			1	1	
SUBTOTAL																															176			11	11	
TOTAL																					**										176			11	11	

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

ROUND PIPE POST AND FOOTING DATA TABLE

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

STRUCTURAL STEEL POST AND FOOTING DATA TABLE

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

SIGNING SHEET
SHEET 2 OF 3

D-29

EFFECTIVE: 07-01-2024

STATE OF MISSOURI
ROBERT B. GREEN
NUMBER PE-25339
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED
4/4/2025

ROUTE	STATE
160	MO
DISTRICT	SHEET NO.
SW	27

COUNTY
BARTON

JOB NO.
J7S3531B

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION	DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
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EFFECTIVE 10-01-2016

STANDARD SIGN ASSEMBLIES

SIGN NUMBER	STATION	LOCATION	SIGN TYPE, DESCRIPTION, SIZES & NUMBER OF EACH							
			 W11-2	 W16-7P	 W16-9P					
			36 X 36	30 X 18	30 X 18					
1	1083+98	RT	1		1					
2	1085+98	RT	1	1						
3	1086+09	LT	1	1						
4	1088+09	LT	1		1					
5	1098+44	RT	1	1						
6	1098+61	LT	1	1						
7	1102+62	RT	1	1						
8	1102+74	LT	1	1						
9	1108+61	RT	1	1						
10	1108+71	LT	1	1						
11	1110+71	LT	1		1					
			11	8	3					

SIGN SUMMARY

STANDARD SIGN OR SPECIAL SIGN NUMBER	SIGN DETAIL SHEET NO.	NO. EACH	SIZE, TYPE & SQUARE FEET				
			SIZE	FLAT SHEET SH ITEM NO. 9035004A	FLAT SHEET FLUORESCENT SHF * ITEM NO. 9035069A	STRUCTURAL ST ITEM NO. 9035011A	STRUCTURAL FLUORESCENT STF * ITEM NO. 9035071A
STANDARD SIGN W11-2		11	36 X 36		99		
STANDARD SIGN W16-7P		8	30 X 18		30		
STANDARD SIGN W16-9P		3	30 X 18		11.25		
			TOTAL		141		

* ORANGE, YELLOW & YELLOW/GREEN

SIGNING SHEET
SHEET 3 OF 3

D-30

STATE OF MISSOURI
ROBERT B. GREEN
NUMBER PE-25339
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED: 4/4/2025
ROUTE: 160 | STATE: MO
DISTRICT: SW | SHEET NO.: 28
COUNTY: BARTON
JOB NO.: J7S3531B
CONTRACT ID.:
PROJECT NO.:
BRIDGE NO.:

DESCRIPTION | DATE

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