

DESIGN DESIGNATION

A.A.D.T. - 2024 = 199

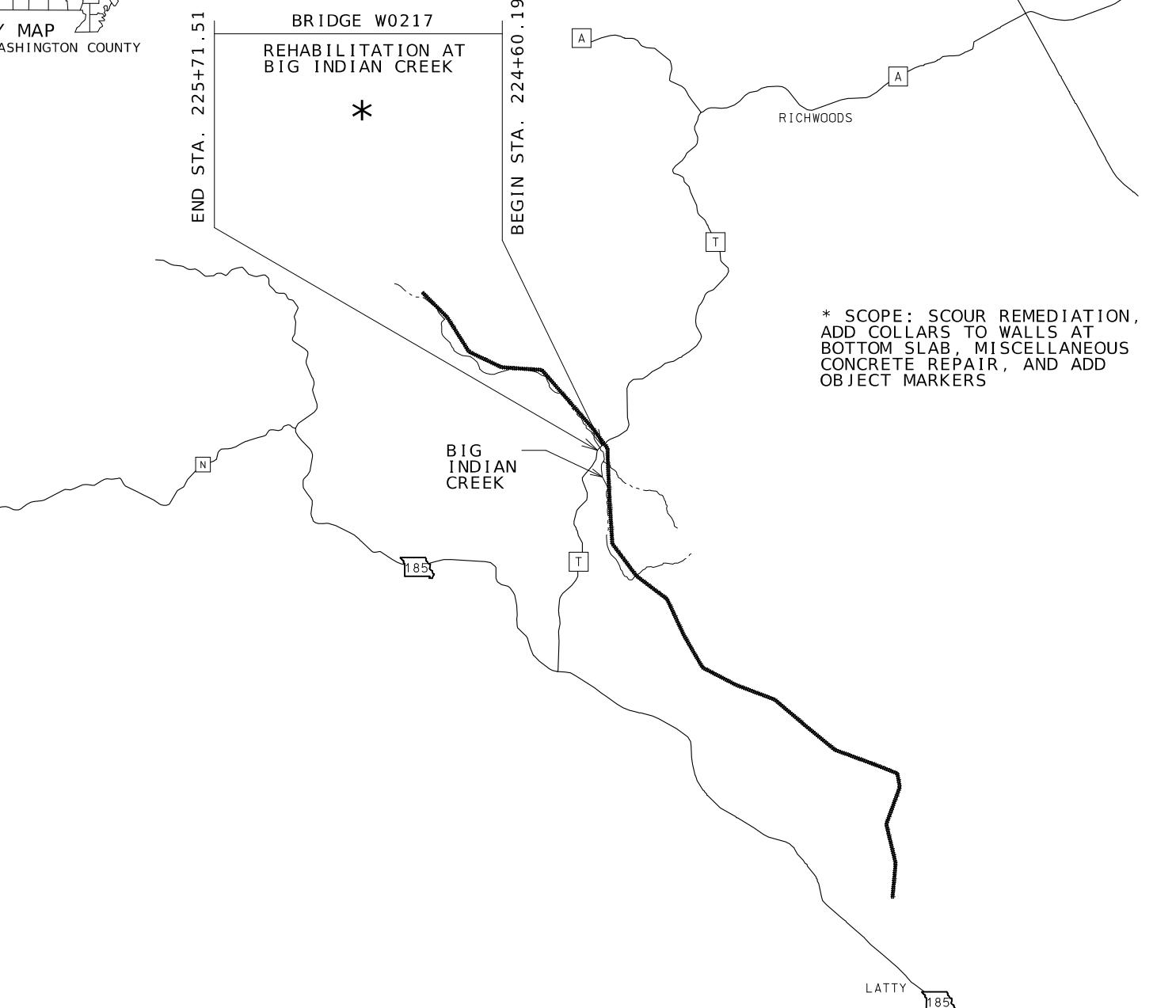
V = 55 M.P.H.

T = 10%

FUNCTIONAL CLASSIFICATION: MINOR COLLECTOR

NO NEW RIGHT OF WAY

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
PLANS FOR PROPOSED
STATE HIGHWAY
WASHINGTON COUNTY

KEY MAP
LOCATION OF WASHINGTON COUNTY

NOT TO SCALE

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.

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—
G—	—G—	—G—
W—	—W—	—W—
WATER		
MANHOLE	SAN	
FIRE HYDRANT	HYD	
WATER VALVE	WV	
WATER METER	WM	
DROP INLET	DI	
DITCH BLOCK		
GROUND MOUNTED SIGN	SIGN	
LIGHT POLE		
H-FRAME POWER POLE	PED	
TELEPHONE PEDESTAL	△	
FENCE	V	
CHAIN LINK		
WOVEN WIRE		
GATE POST	X	
BENCHMARK	BM	BM
NOTE: DASHED OR OPEN SYMBOLS INDICATE EXISTING FEATURES		

INDEX OF SHEETS

DESCRIPTION	SHEET NUMBER
TITLE SHEET -----	1
TYPICAL SECTIONS (TS) (1 SHEET)-----	2
QUANTITIES (QU) (1 SHEET)-----	3
PLAN-PROFILE (PP)-----	4
SPECIAL SHEETS (SS)-----	5
TRAFFIC CONTROL SHEETS (TC) -----	6-8
BRIDGE DRAWINGS (B) (2 SHEETS)	1-2
WO217-----	1-2

STATE OF MISSOURI	
MARIA K. PETERS	
NUMBER PE-200016218	
PROFESSIONAL ENGINEER	
Maria Peters 12/01/2025 8:20:48 AM MARIA K. PETERS - CIVIL MO-PE-200016218	
ROUTE T	STATE MO
DISTRICT CD	SHEET NO. 1
COUNTY WASHINGTON	
JOB NO. J5S3556	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

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

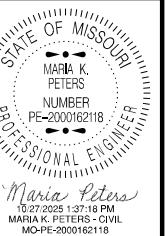
LENGTH OF PROJECT

BEGINNING OF PROJECT STA. 224+60.19
END OF PROJECT STA. 225+71.51

APPARENT LENGTH 111.32 FEET

EQUATIONS AND EXCEPTIONS: NONE

TOTAL CORRECTIONS 0.00 FEET
NET LENGTH OF PROJECT 111.32 FEET
STATE LENGTH 0.021 MILES
ESTIMATED DISTURBED ACRES (FOR INFORMATION ONLY) 0.01



DATE PREPARED
10/27/2025

ROUTE T STATE MO
DISTRICT CD SHEET NO. 3

COUNTY WASHINGTON

JOB NO. J553556

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

STANDARD SIGN ASSEMBLIES				
SIGN SET NO.	STATION	LOCATION	TYPE	TYPE
			OM3-L	OM3-R
			SIGN DESCRIPTION, SIZES & NUMBER - QTY. (SF)	SIGN DESCRIPTION, SIZES & NUMBER - QTY. (SF)
			 12" x 36"	 12" x 36"
3	224+60.19	BRIDGE W0217 / RT		3
3	224+60.19	BRIDGE W0217 / LT	3	
2	224+80.19	BRIDGE W0217 / RT		3
2	224+80.19	BRIDGE W0217 / LT	3	
1	225+00.19	BRIDGE W0217 / RT		3
1	225+00.19	BRIDGE W0217 / LT	3	
1	225+31.51	BRIDGE W0217 / RT		3
1	225+31.51	BRIDGE W0217 / LT	3	
2	225+51.51	BRIDGE W0217 / RT		3
3	225+71.51	BRIDGE W0217 / RT		3
3	225+71.51	BRIDGE W0217 / LT	3	

SIGN SUMMARY					
STANDARD SIGN OR SPECIAL SIGN NUMBER	SIGN DETAIL SHEET NO.	QTY.	SIZE, TYPE & SQUARE FEET		
			SIZE	FLAT SHEET FLUORESCENT, SHF	ITEM NO. 9035069A SF
OBJECT MARKER (OM3-L)	STD	6	12" X 36"	18	
OBJECT MARKER (OM3-R)	STD	6	12" X 36"	18	
			TOTAL		36

TYPE 2 ROCK BLANKET					
SHEET NO.	LOCATION	FURNISHING ROCK BLANKET (CY)	PLACING ROCK BLANKET (CY)	PERMANENT EROSION CONTROL GEOTEXTILE (SY)	REMARKS
4	RTE T	175.0	175.0	115.0	SEE PLAN SHEET 1
	TOTAL	175.0	175.0	115.0	
	USE	175	175	115	

SIGN POSTS				
SIGN SET NO.	STATION	SIGN SIZE	LOCATION	U CHANNEL POST 3 LB. POST SIZE 14' LENGTH ITEM NO. 9031250A LF
3	224+60.19	1X3	RTE T / RT	1 14
3	224+60.19	1X3	RTE T / LT	1 14
2	224+80.19	1X3	RTE T / RT	1 14
2	224+80.19	1X3	RTE T / LT	1 14
1	225+00.19	1X3	RTE T / RT	1 14
1	225+00.19	1X3	RTE T / LT	1 14
1	225+31.51	1X3	RTE T / RT	1 14
1	225+31.51	1X3	RTE T / LT	1 14
2	225+51.51	1X3	RTE T / RT	1 14
2	225+51.51	1X3	RTE T / LT	1 14
3	225+71.51	1X3	RTE T / RT	1 14
3	225+71.51	1X3	RTE T / LT	1 14
			TOTAL	168

NOTE: U CHANNEL POST SHALL BE CUT IN THE FIELD TO MEET THE MIN. SIGN MOUNTING HEIGHT SHOWN ON SPECIAL SHEET 1 OF 1

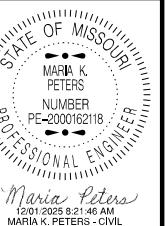
CULVERT CLEANOUT				
STATION	STATION	LOCATION	CULVERT CLEANOUT (EA)	REMARKS
225+00.19	225+31.51	RTE T	1	BOX CULVERT HAS 3 CELLS
		TOTAL	1.0	
		USE	1	

ADDITIONAL CONSTRUCTION ITEMS		
ITEM NO.	QUANTITY	DESCRIPTION
616-10.25	30	CHANNELIZERS (TRIM-LINE)
616-1099 *	2	CHANGEABLE MESSAGE SIGNS *
SEEDING AND MULCHING		
COOL SEASON GRASS		
1 LUMP SUM		
CLEARING AND GRUBBING		
QUANTITY (ACRE)		
1		

MOBILIZATION
1 LUMP SUM

SUMMARY OF QUANTITIES
SHEET 1 OF 1





Maria Peters
12/01/2025 8:21:46 AM
MARIA K. PETERS - CIVIL
MO-PE-200016218

DATE PREPARED

12/1/2025

ROUTE T STATE MO
DISTRICT CD SHEET NO. 4

COUNTY WASHINGTON
JOB NO. J553556
CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION	DATE



NOTE:
TREE CLEARING LIMITS SHALL BE WITHIN
THE LIMITS OF EXISTING RIGHT OF WAY
AND PERMANENT EASEMENTS, AS NEEDED FOR
CONSTRUCTABILITY. SEE TREE CLEARING
RESTRICTION JSP FOR DETAILS.

NOTE:
NO ROADWAY SIDESLOPE DISTURBANCE
EXPECTED. IT IS THE RESPONSIBILITY
OF THE CONTRACTOR TO MAINTAIN
THE SWPP.

(6-FT THICK) WHERE OVERLAPPED

END PROJECT
STA. 225+71.51

100' x 150' PERM. ESMT.
225+50

225

224+50

TYPE 2 ROCK BLANKET 175 CY
(3-FT THICK)
AND EROSION CONTROL 115 SY
GEOTEXTILE

BEGIN PROJECT
STA. 224+60.19

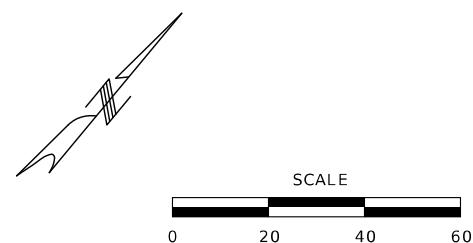
RTE. T

EXIST. 45' R/W

BRIDGE W0217
EXIST. 45' R/W

BIG INDIAN CREEK

100' x 150' PERM. ESMT.
224+50



NOTES:

REMOVE EXISTING OBJECT MARKERS

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.

STATE OF MISSOURI
MARIA K. PETERS
NUMBER PE-2000162118
PROFESSIONAL ENGINEER
Maria Peters
10/27/2025 10:25:45 AM
MARIA K. PETERS - CIVIL
MC-PE-2000162118

DATE PREPARED
10/27/2025

ROUTE T STATE MO

DISTRICT CD SHEET NO. 5

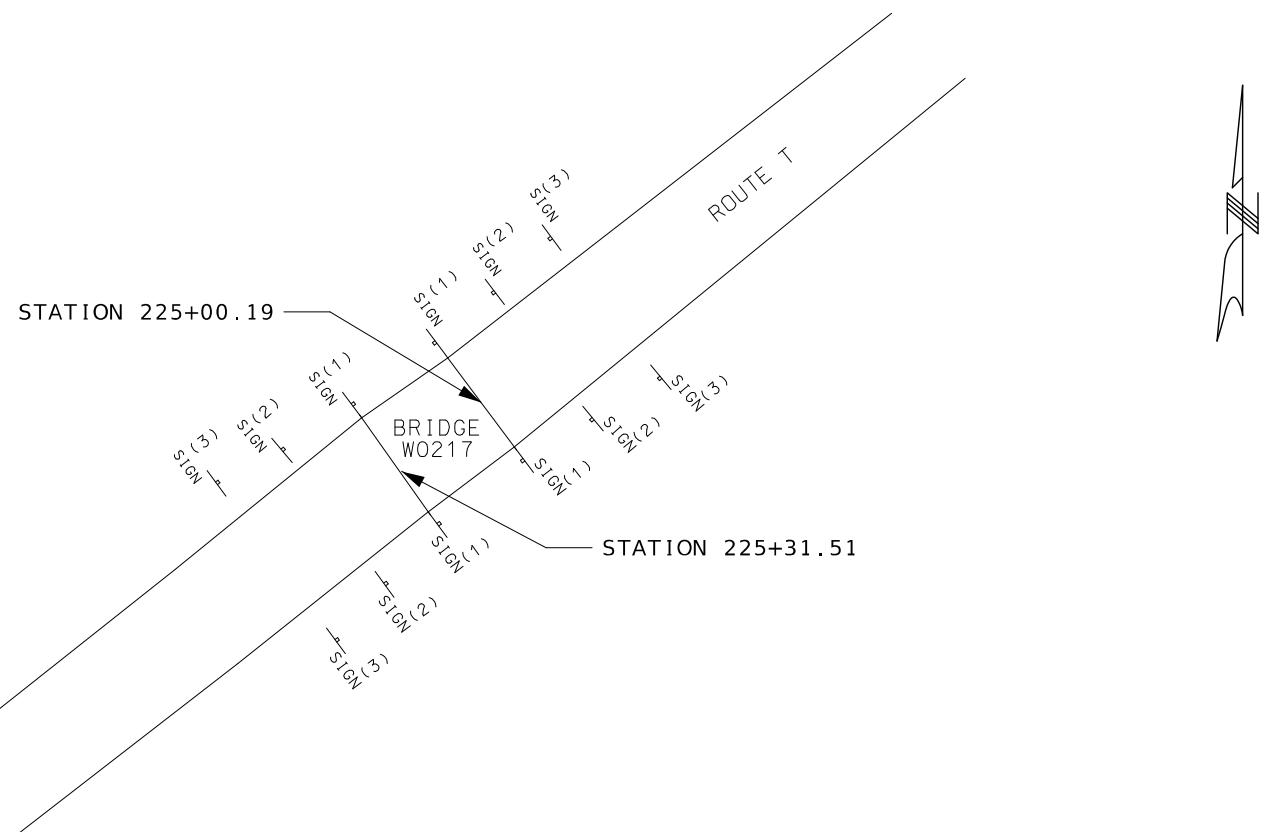
COUNTY WASHINGTON

JOB NO. J5S3556

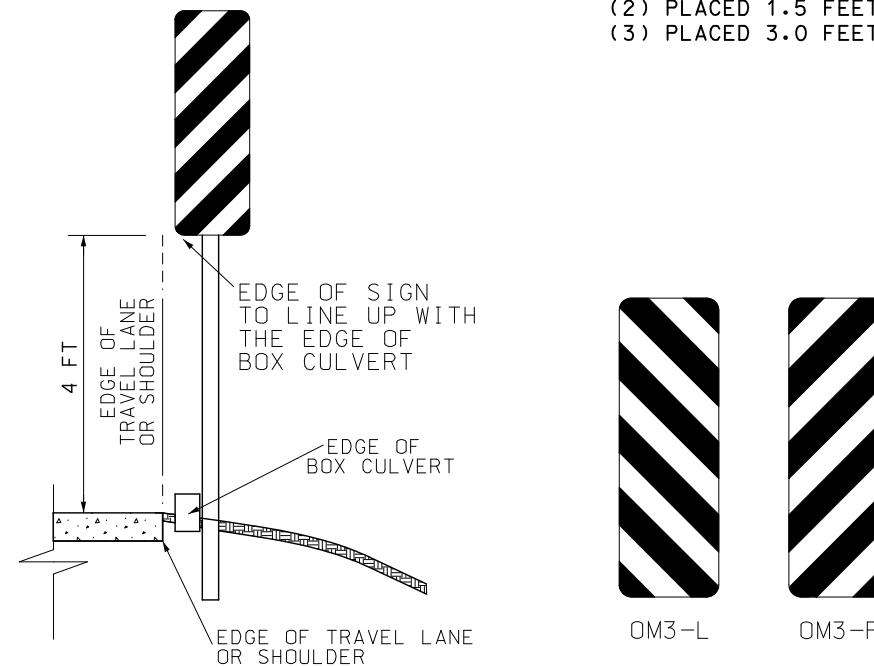
CONTRACT ID.

PROJECT NO.

BRIDGE NO.



TYPE 3 OBJECT MARKERS			
STATION	SIGN SET	LOCATION	BRIDGE
224+60.19	3	RTE T / RT	W0217
224+60.19	3	RTE T / LT	W0217
224+80.19	2	RTE T / RT	W0217
224+80.19	2	RTE T / LT	W0217
225+00.19	1	RTE T / RT	W0217
225+00.19	1	RTE T / LT	W0217
225+31.51	1	RTE T / RT	W0217
225+31.51	1	RTE T / LT	W0217
225+51.51	2	RTE T / RT	W0217
225+51.51	2	RTE T / LT	W0217
225+71.51	3	RTE T / RT	W0217
225+71.51	3	RTE T / LT	W0217



NOT TO SCALE

SPECIAL SHEET
1 OF 1



10/27/2025

DATE PREPARED

ROUTE T STATE MO

DISTRICT CD SHEET NO. 6

COUNTY WASHINGTON

JOB NO. J5S3556
CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION

DATE

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

Sign Spacing, Device Spacing and Channelizing Taper Lengths

SIGN SPACING (S) FOR ADVANCE SIGN SERIES (1) (2)		
SPEED MPH	UNDIVIDED HIGHWAYS	DIVIDED HIGHWAYS
0-35	200	200
40-45	350	500
50-55	500	1000
60-70	1000	SA-1000 SB-1500 SC-2640

LONGITUDINAL BUFFER SPACE (B)	
SPEED MPH	BUFFER SPACE
0-35	250
40-45	360
50-55	495
60-70	730

TAPER LENGTH (L):

L = WS FOR 40 MPH OR MORE

L = $\frac{WS^2}{60}$ FOR 35 MPH OR LESS

FOR SHOULDER TAPER USE L/3

WHERE:

L = TAPER LENGTH IN FEET

W = LATERAL SHIFT IN FEET

S = POSTED SPEED IN MPH

TAPER LENGTHS AND SPACING OF CHANNELIZING DEVICES					
SPEED MPH	MINIMUM TAPER LENGTHS (L) FOR LANE WIDTHS (W)		MAXIMUM CHANNELIZER SPACING		
	10 FT	11 FT	12 FT	THROUGH TAPER	THROUGH WORK AREA
0-35	205	225	245	35	40
40-45	450	495	540	40	80
50-55	550	605	660	50	80
60-70	700	770	840	60	120

NOTES:

DIMENSIONS IN FEET UNLESS OTHERWISE NOTED.

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

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

TRAFFIC CONTROL DEVICES

GENERAL NOTES:

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

TRAFFIC CONTROL LEGEND

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

NOT TO SCALE

STATE OF MISSOURI
MARIA K. PETERS
NUMBER
PE-2000162118

Maria Peters
10/27/2025 10:26:46 AM
MARIA K. PETERS - CIVIL
MO-PE-2000162118

DATE PREPARED
10/27/2025

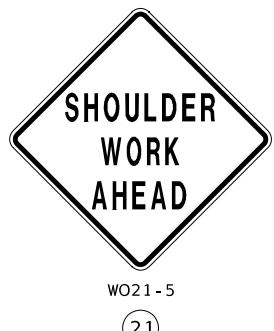
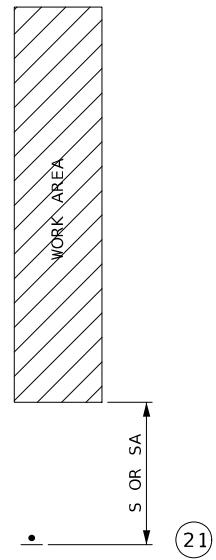
ROUTE T	STATE MO
DISTRICT CD	SHEET NO. 7
COUNTY WASHINGTON	
JOB NO. J5S3556	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

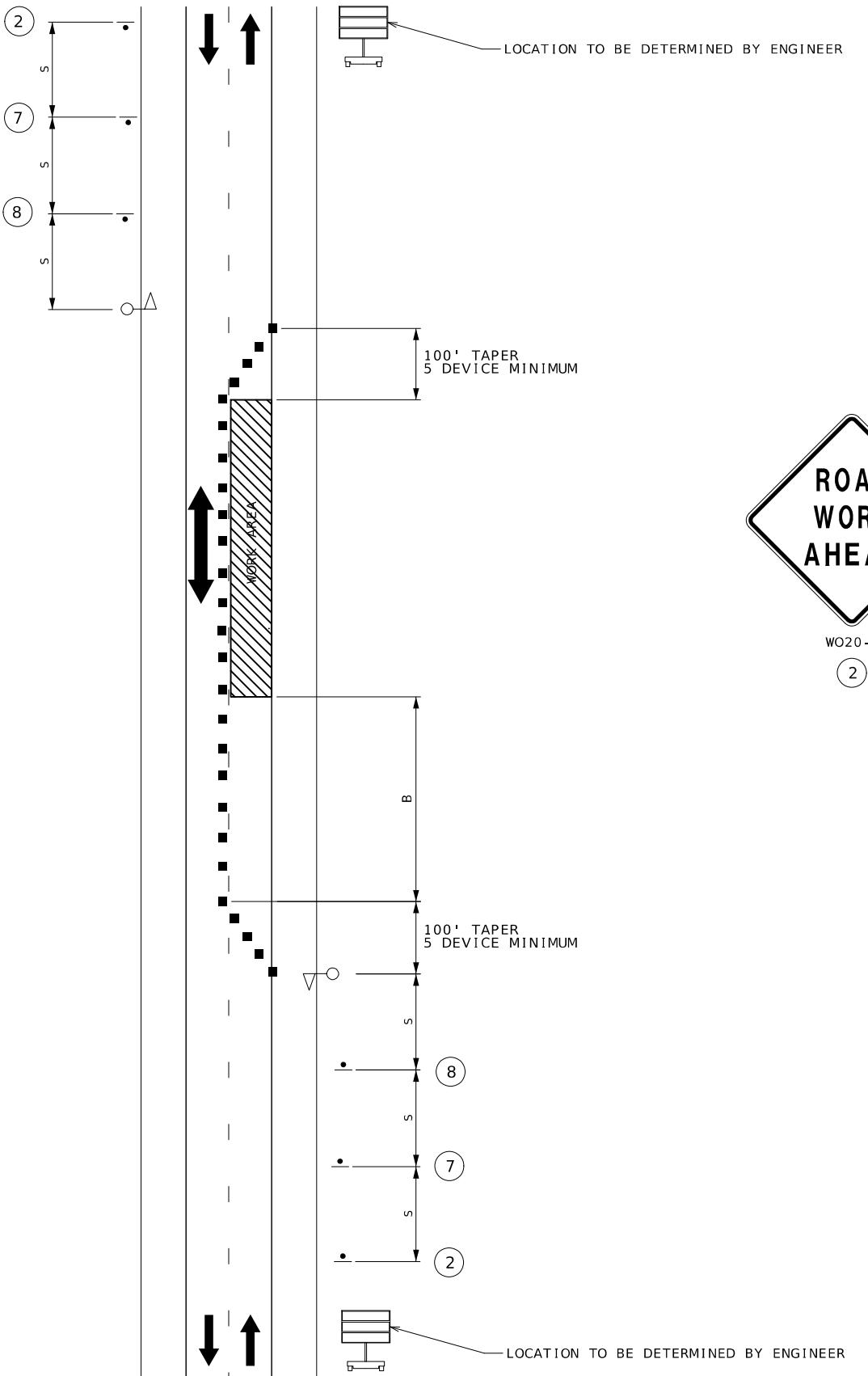
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

MODOT

WORK BEYOND THE SHOULDER

UNDIVIDED OR DIVIDED HIGHWAY





LANE CLOSURE
ON TWO-LANE ROAD
USING FLAGGERS



WO20-1
(2)



WO20-4
(7)



WO20-7a
(8)a

NOT TO SCALE

TEMPORARY TRAFFIC CONTROL
SHEET 3 OF 3

STATE OF MISSOURI	
MARIA K. PETERS	
NUMBER PE-200016218	
PROFESSIONAL ENGINEER	
Maria Peters	
10/27/2025 10:27:17 AM	
MARIA K. PETERS - CIVIL	
MO-PE-200016218	
DATE PREPARED	
ROUTE T	STATE MO
DISTRICT CD	SHEET NO. 8
COUNTY WASHINGTON	
JOB NO. J5S3556	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION	
DATE	
DESCRIPTION	
105 WEST CAPITOL JEFFERSON CITY, MO 65102	
1-888-ASK-MODOT (1-888-275-6636)	
MODOT	

U.I.P. AND REHABILITATE 3(10'X 8') CONCRETE BOX CULVERT

SEC/SUR 28 TWP 39 N RGE 1 E



10/28/2025

ROUTE T STATE MO

DISTRICT BR SHEET NO. 1

COUNTY WASHINGTON

JOB NO. J5S3556

CONTRACT ID.

PROJECT NO.

BRIDGE NO. W02171

DESCRIPTION	DATE

General Notes:

Design Specifications:

2002 AASHTO LFD (17th Ed.) Standard Specifications
Culvert Condition Rating = 5

Design Loading:

H15 (AASHO 1926-1928 Assumed)

Design Unit Stresses:

Class B-1 Concrete (Box Culvert)
Structural Carbon Steel (ASTM A709 Grade 36)
Reinforcing Steel (ASTM A615 Grade 60)

$f'_c = 4,000$ psi
 $f_y = 36,000$ psi
 $f_y = 60,000$ psi

Reinforcing Steel:

Minimum clearance to reinforcing steel shall be 1 1/2", unless otherwise shown.

Miscellaneous:

Bars bonded in existing concrete not removed shall be cleanly stripped and embedded into new concrete where possible. If length is available, existing bars shall extend into new concrete at least 40 diameters for plain bars and 30 diameters for deformed bars, unless otherwise noted.

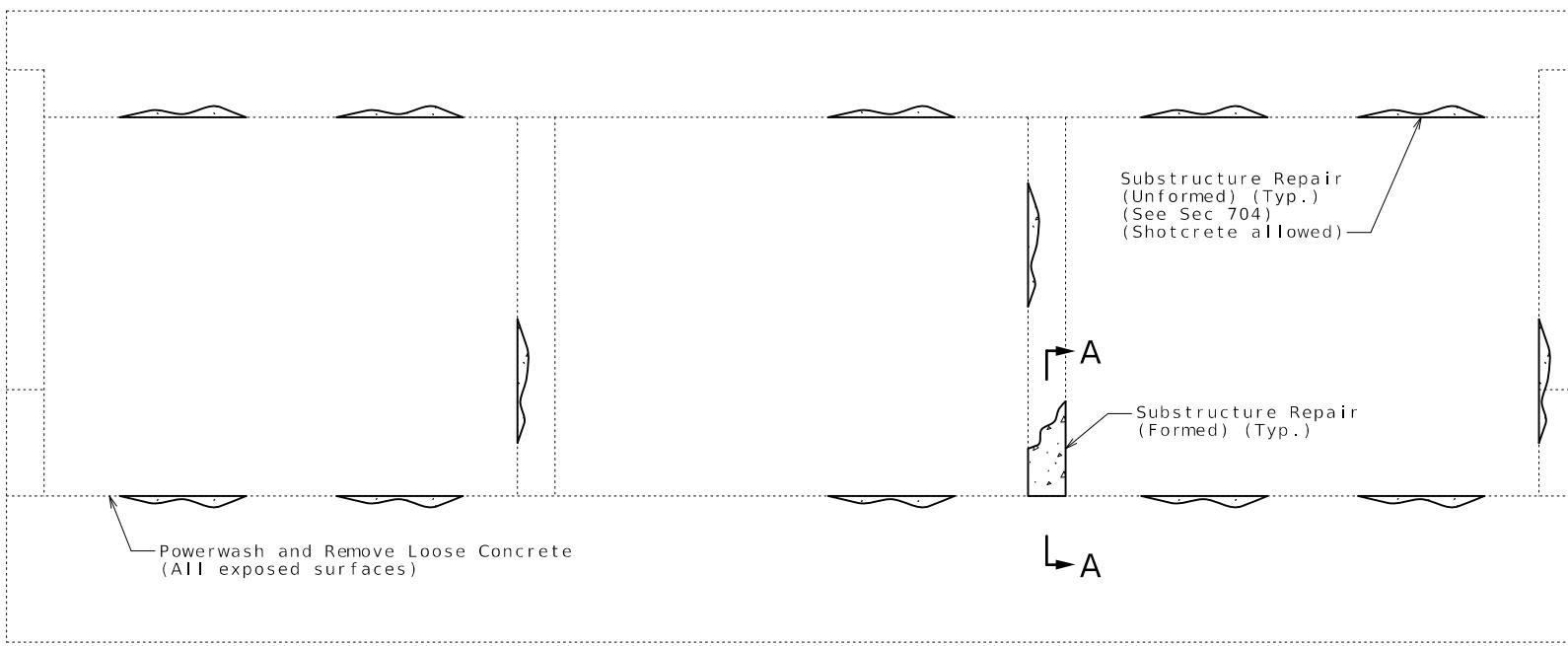
Outline of existing work is indicated by light dashed lines. Heavy lines indicate new work.

Contractor shall verify all dimensions in field before ordering new materials.

The area exposed by the removal of concrete and not covered with new concrete shall be coated with an approved qualified special mortar in accordance with Sec 704.

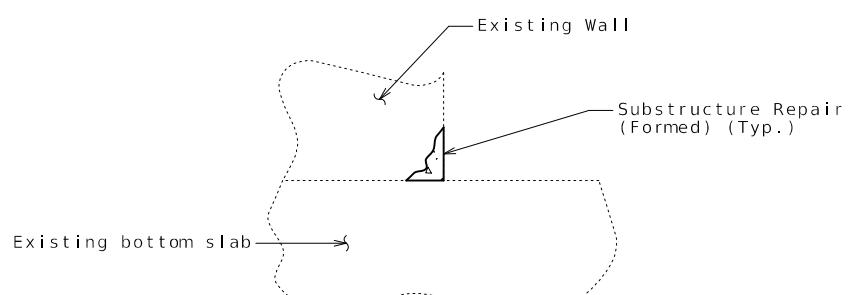
Traffic Handling:

Traffic to be maintained on structure during construction. See roadway plans for traffic control.



Estimated Quantities	
Item	Total
Dewatering	1ump sum
Powerwash and Remove Loose Concrete	sq. foot 5115
Class B-1 Concrete	cu. yard 5.2
Substructure Repair (Formed)	sq. foot 31
Substructure Repair (Unformed)	sq. foot 150
Cleaning & Epoxy Coating	sq. yard 300
Reinforcing Steel	pound 510
Resin Anchor System	each 336
Install Galvanized Angles	1ump sum 1

UPSTREAM ELEVATION OF BOX CULVERT SHOWING REPAIRS



SECTION A-A

REPAIRS TO CULVERT: ROUTE T
OVER INDIAN CREEK BRANCH

ROUTE T FROM ROUTE 185 TO ROUTE A
ABOUT 3.1 MILES NORTH OF ROUTE 185
TIE STATION 225+16.00± (MATCH EXISTING)



