

DESIGN DESIGNATION

A.A.D.T. - 2023 = 450
 A.A.D.T. - 2034 = 450
 D.H.V. = 52
 T = 10.7%
 V = 55 M.P.H.

FUNCTIONAL CLASSIFICATION - SUPPLEMENTARY

NO RIGHT OF WAY
 ACQUISITION NEEDED

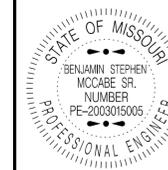
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

PLANS FOR PROPOSED STATE HIGHWAY

RAY COUNTY



DESCRIPTION	SHEET NUMBER
TITLE SHEET -----	1
TYPICAL SECTIONS (TS) (2 SHEETS) --	2
QUANTITIES (QU) (2 SHEETS) -----	3
PLAN-PROFILE (PP) -----	4-5
REFERENCE POINTS (RP) -----	6
COORDINATE POINTS (CP) -----	7
TRAFFIC CONTROL SHEETS (TC) -----	8-9
EROSION CONTROL SHEETS (EC) -----	10
BRIDGE DRAWINGS (B) (22 SHEETS)	
A9575 -----	1-22
CROSS SECTIONS (XS) -----	1-7



Benjamin Stephen McCabe Sr.
 10/02/2025 7:38:39 AM
 BENJAMIN STEPHEN MCCABE SR - CIVIL
 MO-PE-2003015005

DATE PREPARED
 10/1/2025

ROUTE Z	STATE MO
DISTRICT KC	SHEET NO. 1

COUNTY
RAY

JOB NO.
JKR0103

CONTRACT ID.

PROJECT NO.

BRIDGE NO.
A9575

DATE	DESCRIPTION

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		
FIRE HYDRANT		
WATER VALVE		
WATER METER		
DROP INLET		
DITCH BLOCK		
GROUND MOUNTED SIGN		
LIGHT POLE		
H-FRAME POWER POLE		
TELEPHONE PEDESTAL		
FENCE		
CHAIN LINK		
WOVEN WIRE		
GATE POST		
BENCHMARK		

NOTE: DASHED OR OPEN SYMBOLS INDICATE EXISTING FEATURES

BEGIN PROJECT
 STA. 47+00.00

PROJECT LIMITS - RTE Z
 REPLACE EXIST BR A1773
 NEW BRIDGE A9575
 GRADING, PAVING

END PROJECT
 STA. 53+00.00



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.

LENGTH OF PROJECT

BEGINNING OF PROJECT STA. 47 + 00.00
 END OF PROJECT STA. 53 + 00.00

APPARENT LENGTH 600.00 FEET

EQUATIONS AND EXCEPTIONS:

TOTAL CORRECTIONS	0 FEET
NET LENGTH OF PROJECT	600.00 FEET
STATE LENGTH	0.114 MILES
FOR INFORMATION ONLY ESTIMATED DISTURBED ACRES	0.2466 ACRES

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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

TYPE 2 ROCK BLANKET W/GEOTEXTILE
 BUILD 2 FT. THICK TYPE 2 ROCK BLANKET WITH PERMANENT
 EROSION CONTROL GEOTEXTILE AT BOTH ENDS ALONG THE FULL
 HEIGHT OF SPILLS SLOPES.

*DETAILS FOR TYPE 2 ROCK BLANKET W/ GEOTEXTILE ON
 TEMPORARY EROSION CONTROL SHEET

PAVEMENT MARKING: 4" SOLID WHITE PERM. EDGELINE PAVEMENT MARKING
 STA. 47+00.00 TO 53+00.00
 4" DOUBLE SOLID YELLOW PERM. PAVEMENT MARKING
 STA. 48+75.00 TO 41+75.00
 4" SOLID AND INTERMITTENT PERM. PAVEMENT MARKING
 STA. 47+00.00 TO 48+75.00 AND
 STA. 51+75.00 TO 53+00.00

LAND TIE
 CP #1 IS 5/8" BAR W/ A PINK MODOT CAP LOCATED
 ALONG Z HWY AT THE KEENEY CREEK BRIDGE
 BURIED +/- 0.5' BELOW GROUND
 MODIFIED STATE PLANE:
 NORTHING 1103839.395
 EASTING 2897217.291
 ELEV. 723.89'
 STA. 49+42.14
 PROJ. FACTOR 1.0000711

ACCESS TO CITY OF ORRICK'S WWTP AND PRIVATE DRIVE TO
 CREASON, ROBERT, & KAREN (TRUST) PROPERTY SHALL BE
 MAINTAINED FOR DURATION OF CONSTRUCTION. IF NEEDED,
 TEMPORARY SURFACING TO BE PLACED BY THE ENGINEER
 AT NO ADDITIONAL COST.

STA 49+29.43 TO
 STA 49+64.97
 1 END ANCHOR
 1 ASYMMETRICAL TRANSITION SECTION
 1 BRIDGE ANCHOR SECTION (THRIE-BEAM)

25-51N-29W

STA 50+95.25 TO
 STA 52+45.25
 BUILD 75' MGS GUARDRAIL, 8 FT POSTS, 6FT 3 IN. SPACING
 1 MGS BRIDGE ANCHOR SECTION (THRIE-BEAM)
 1 MGS CRASHWORTHY END TERMINAL (MASH)

SCALE



NO AQUISITION

①

TOWNSEND, THOMAS D. & DEANNE L. PROP OWNER

NO AQUISITION

②

ROBERTS, TERRY RAY PROP OWNER

NO AQUISITION

③

CREASON, ROBERT & KAREN (TRUST) PROP OWNER

45

PROJECT START
 STA 47+00.00
 NORTHING 1104081.253
 EASTING 2897192.831
 TANGENTIAL DIRECTION S0.591°E
 TANGENTIAL LENGTH 349.900'

NO AQUISITION

④

CLARK FAMILY FARMS LP

26-51N-29W

50

REMOVE OLD BRIDGE A1773 AND BUILD NEW BRIDGE A9525
 AT START STA. 49+63.86 & END AT 50+78.13

HPI
 STA 50+49.90
 NORTHING 1103731.371
 EASTING 2897196.437
 TANGENTIAL DIRECTION S0.641°E
 TANGENTIAL LENGTH 250.100'

BRIDGE ITEM
 APPROACH SLAB

LEFT LANE NARROWING STARTS
 STA 51+34.77

START OF OPTIONAL PAVEMENT
 STA 50+98.11

LEFT LANE NARROWING ENDS
 STA 51+34.77

STA 50+77.04 TO
 STA 52+27.04
 BUILD 75' MGS GUARDRAIL, 8 FT POSTS, 6FT 3 IN. SPACING
 1 MGS BRIDGE ANCHOR SECTION (THRIE-BEAM)
 1 MGS CRASHWORTHY END TERMINAL (MASH)

PROJECT END
 STA 53+00.00
 NORTHING 1103481.287
 EASTING 2897199.233

NO AQUISITION

⑤

COULSON, STACEY

NEW ROADWAY IMPROVEMENTS

TYPE 2 ROCK BLANKET W/ GEOTEXTILE

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.



DATE PREPARED
 3/4/2025

ROUTE Z STATE MO

DISTRICT KC SHEET NO. 4

COUNTY RAY

JOB NO. JKR0103

CONTRACT ID.

PROJECT NO.

BRIDGE NO. A9575

DESCRIPTION

DATE

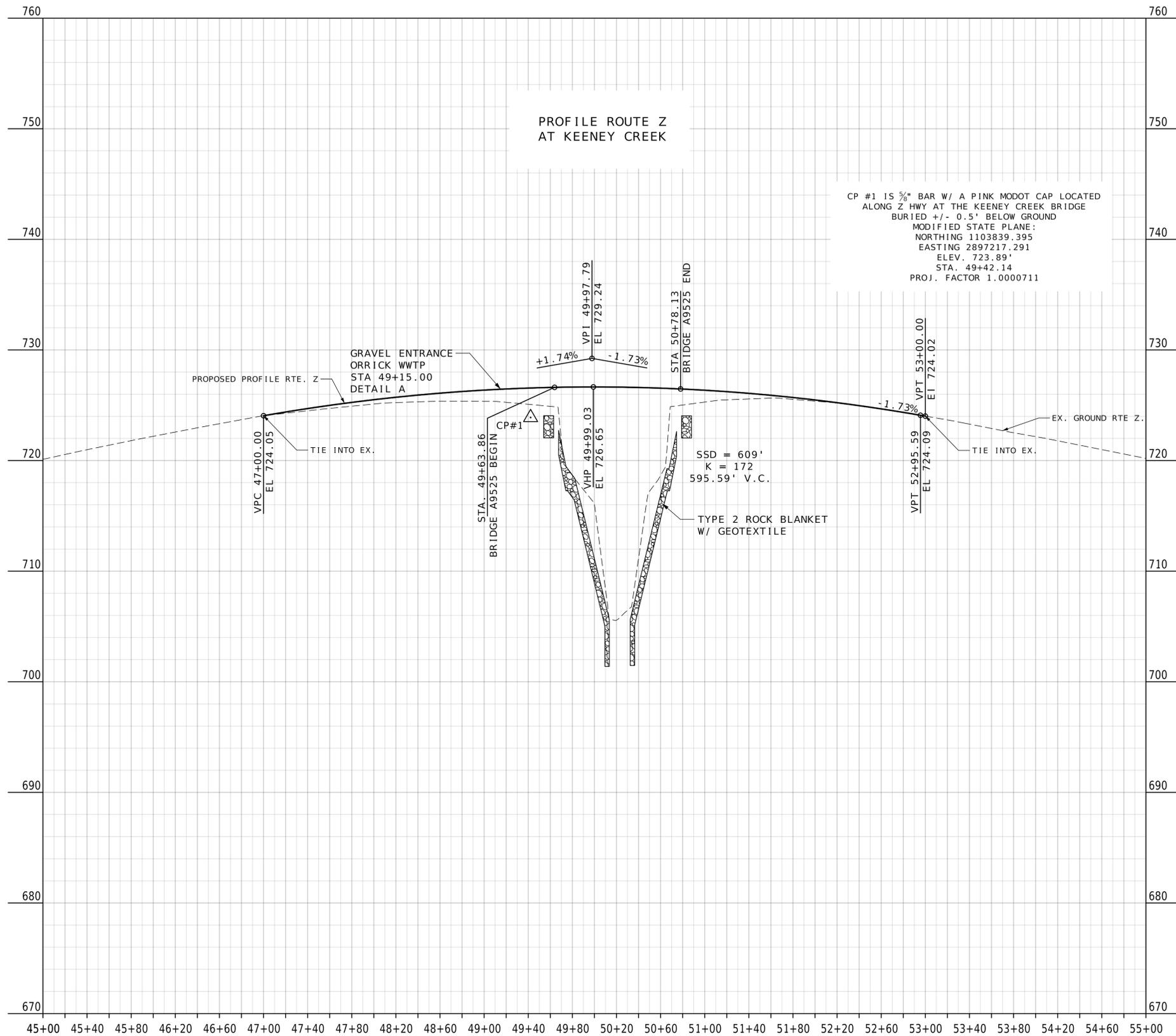
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL JEFFERSON CITY, MO 65102

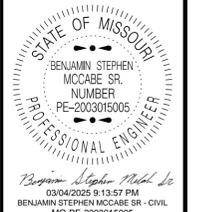
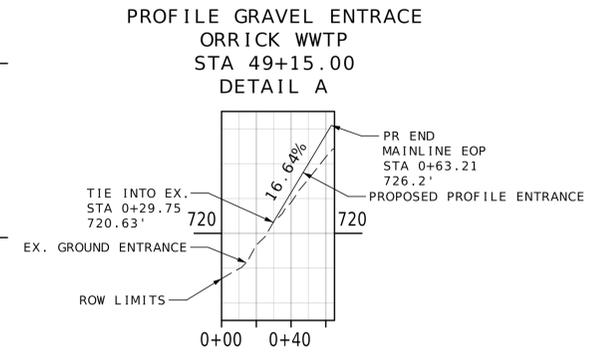
1-888-ASK-MODOT (1-888-275-6636)

MoDOT

PLAN SHEET SHEET 1 OF 1



CP #1 15 3/8" BAR W/ A PINK MODOT CAP LOCATED
ALONG Z HWY AT THE KEENEY CREEK BRIDGE
BURIED +/- 0.5' BELOW GROUND
MODIFIED STATE PLANE:
NORTHING 1103839.395
EASTING 2897217.291
ELEV. 723.89'
STA. 49+42.14
PROJ. FACTOR 1.0000711



DATE PREPARED
3/4/2025

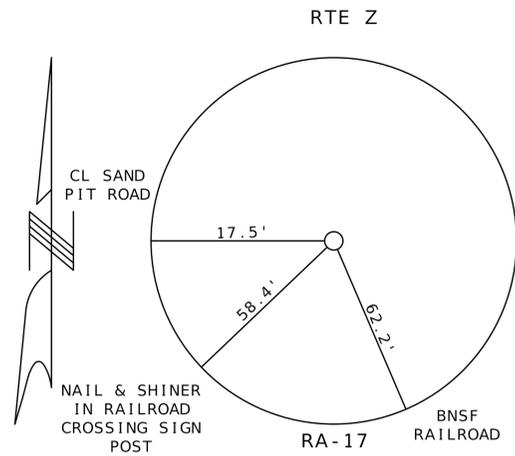
ROUTE Z	STATE MO
DISTRICT KC	SHEET NO. 5
COUNTY RAY	
JOB NO. JKR0103	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO. A9575	

DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION
COMMISSION

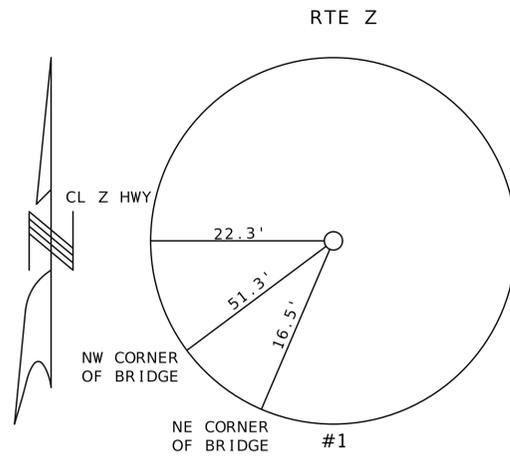
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

RA-17 IS A NAIL & SHINER IN UTILITY POLE WITH CARSONITE WITNESS POST AT 3.9'



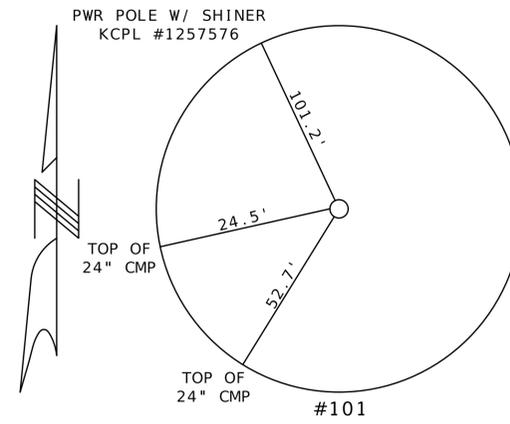
MODIFIED STATE PLANE:
 NORTHING 1102895.215
 EASTING 2904646.952
 ELEV. 717.71
 PROJ. FACTOR 1.0000711

#1 IS A 5/8" BAR W/ A PINK MODOT CAP LOCATED ALONG Z HWY AT THE KEENEY CREEK BRIDGE BURIED +/- 0.5' BELOW GROUND



MODIFIED STATE PLANE:
 NORTHING 1103839.395
 EASTING 2897217.291
 ELEV. 723.89'
 PROJ. FACTOR 1.0000711

#101 IS A SECTION CORNER THAT LIES NEAR THE CENTERLINE OF Z HWY WITH AN ALUMINUM CAP. IT IS FLUSH WITH THE SURFACE OF THE ROAD. THE MONUMENT IS ABOUT 900' +/- NORTH OF THE KEENEY CREEK BRIDGE



MODIFIED STATE PLANE:
 NORTHING 1104731.158
 EASTING 2897187.172
 ELEV. 714.60'
 PROJ. FACTOR 1.0000711



Benjamin Stephen McCabe Sr.
 03/04/2025 9:14:27 PM
 BENJAMIN STEPHEN MCCABE SR - CIVIL
 MO-PE-2003015005

DATE PREPARED
 3/4/2025

ROUTE Z STATE MO
 DISTRICT KC SHEET NO. 6

COUNTY
 RAY

JOB NO.
 JKR0103

CONTRACT ID.

PROJECT NO.

BRIDGE NO.
 A9525

DATE	DESCRIPTION

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

Foundation Data					
Type	Design Data	Bent Number			
		1	2	3	4
Load Bearing Pile	Pile Type and Size	HP 14x73	HP 14x73	HP 14x73	HP 14x73
	Number	ea 4	ea 5	ea 5	ea 4
	Approximate Length Per Each	ft 103	ft 102	ft 101	ft 99
	Pile Point Reinforcement	ea ALL	ea ALL	ea ALL	ea ALL
	Min. Galvanized Penetration (Elev.)	ft 700.80	ft 691.39	ft 690.00	ft 700.66
	Est. Max. Scour Depth 100 (Elev.)	ft -	ft 701.4	ft 700.0	ft -
	Minimum Tip Penetration (Elev.)	ft 670	ft 668	ft 675	ft 670
	Criteria for Min. Tip Penetration	Lateral Stability	Lateral Stability	Lateral Stability	Lateral Stability
	Pile Driving Verification Method	DF	DF	DF	DF
	Resistance Factor	0.40	0.40	0.40	0.40
	Minimum Nominal Axial Compressive Resistance	kip 350	kip 415	kip 415	kip 350

DF = FHWA-Modified Gates Dynamic Formula
 Minimum Nominal Axial Compressive Resistance = $\frac{\text{Maximum Factored Loads}}{\text{Resistance Factor}}$

All piles shall be galvanized down to the minimum galvanized penetration (elevation).

Pile point reinforcement need not be galvanized. Shop drawings will not be required for pile point reinforcement.

The contractor shall make every effort to achieve the minimum galvanized penetration (elevation) shown on the plans for all piles. Deviation in penetration less than 5 feet of the minimum will be considered acceptable provided the contractor makes the necessary corrections to ensure the minimum penetration is achieved on subsequent piles.

General Notes:

Design Specifications:
 2020 AASHTO LRFD Bridge Design Specifications (9th Ed.)
 2023 AASHTO Guide Specifications for LRFD Seismic Bridge Design (3rd ED.)
 Seismic Design Category = A (Nonseismic Details)
 Design earthquake response spectral acceleration coefficient at 1.0 second period, $SD1 < 0.15 = 0.129g$
 Acceleration Coefficient (effective peak ground acceleration coefficient), $A_s = 0.082g$

Design Loading:

Vehicle = HL-93
 Future Wearing Surface = 35 lb/sf
 Earth = 120 lb/cf
 Equivalent Fluid Pressure = 45 lb/cf (Min.)
 Superstructure:
 Simply-Supported, Non-Composite for dead load.
 Continuous Composite for live load.

Design Unit Stresses:

Class B Concrete (Substructure) $f'c = 3,000$ psi
 Class B-1 Concrete (Barrier) $f'c = 4,000$ psi
 Class B-2 Concrete (Superstructure, except Prestressed Beams and Barrier) $f'c = 4,000$ psi
 Reinforcing Steel (ASTM A615 Grade 60) $fy = 60,000$ psi
 Structural Steel HP Pile (ASTM A709 Grade 50) $fy = 50,000$ psi
 For prestressed box beam stresses, see Sheets No. 9 & 10.

Neoprene Pads:

Neoprene bearing pads shall be 60 durometer and shall be in accordance with Sec 716.

Joint Filler:

All joint filler shall be in accordance with Sec 1057 for preformed sponge rubber expansion and partition joint filler, except as noted.

Reinforcing Steel:

Minimum clearance to reinforcing steel shall be 1 1/2", unless otherwise shown.
 Minimum clearance between galvanized piles and uncoated (plain) reinforcing steel including bar supports shall be 1 1/2". Nylon, PVC, or polyethylene spacers shall be used to maintain clearance. Nylon cable ties shall be used to bind the spacers to the reinforcement.

Traffic Handling:

Structure to be closed during construction. Traffic to be maintained on other routes during construction. See roadway plans for traffic control.

Miscellaneous:

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

Estimated Quantities			
Item	Substr.	Superstr.	Total
Removal of Miscellaneous ACM (Non-Friable)	sq. foot		9
Class 1 Excavation	cu. yard	70	70
Removal of Bridges (A1773)	lump sum		1
Bridge Approach Slab (Minor)	sq. yard	122	122
Galvanized Structural Steel Piles (14 in.)	linear foot	1823	1823
Pile Point Reinforcement	each	18	18
Class B Concrete (Substructure)	cu. yard	65.6	65.6
Type H Barrier	linear foot	261	261
Slab on Concrete Beam	sq. yard	360	360
21 in., Prestressed Concrete Spread Box Beam	linear foot	328	328
Reinforcing Steel (Bridges)	pound	5,200	5,200
Slab Drain	each	16	16
Vertical Drain at End Bents	each	2	2
Plain Neoprene Bearing Pad	each	6	6
Laminated Neoprene Bearing Pad	each	12	12

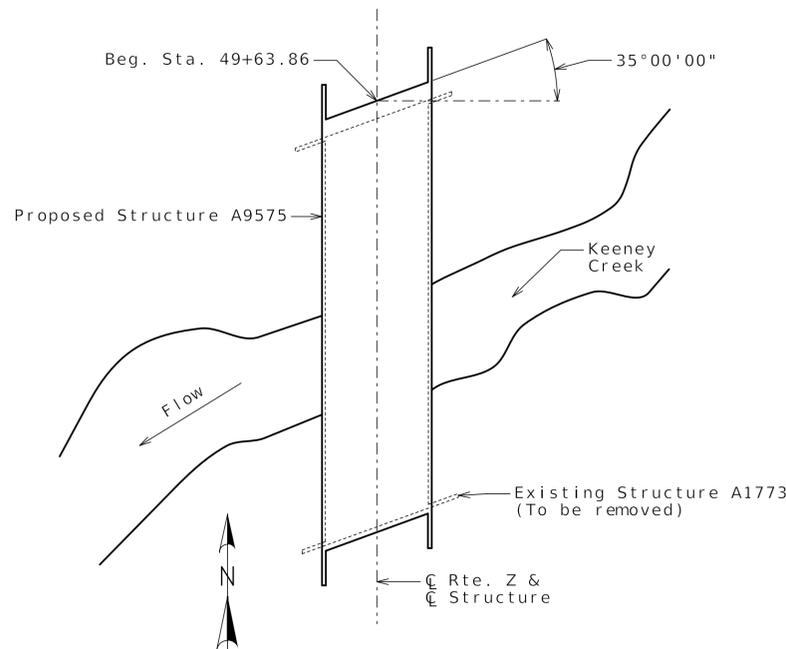
All concrete above the construction joint in the end bents is included in the Estimated Quantities for Slab on Concrete Beam.

All reinforcement in the end bents is included in the Estimated Quantities for Slab on Concrete Beam.

All reinforcement in the intermediate bent concrete diaphragms except reinforcement embedded in the beam cap is included in the Estimated Quantities for Slab on Concrete Beam.

All concrete above the intermediate beam cap is included in the Estimated Quantities for Slab on Concrete Beam.

Hydrologic Data
Drainage Area = 7.3 mi ²
Design Flood Frequency = 50 years
Design Flood Discharge = 2300 cfs
Design Flood (D.F.) Elevation = 713.4 (ft)
Base Flood (100-year)
Base Flood Elevation = 719.6 (ft)
Base Flood Discharge = 2800 cfs
Estimated Backwater = 0.2 ft
Average Velocity thru Opening = 8.7 ft/s
Freeboard (50-year)
Freeboard = 4.6 ft
Roadway Overtopping
Overtopping Flood Discharge = 3600 cfs
Overtopping Flood Frequency = 392.6 years
500-year Flood Elevation = 714.6



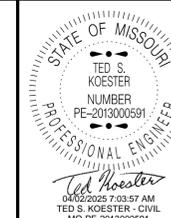
LOCATION SKETCH

Estimated Quantities for Slab on Concrete Beam		
Item		Total
Class B-2 Concrete	cu. yard	113
Reinforcing Steel (Epoxy Coated)	pound	32,870

The table of Estimated Quantities for Slab on Concrete Beam represents the quantities used by the State in preparing the cost estimate for concrete slabs. The area of the concrete slab will be measured to the nearest square yard longitudinally from end of slab to end of slab and transversely from out to out of bridge slab (or with the horizontal dimensions as shown on the plan of slab). Payment for prestressed panels, conventional forms, all concrete and epoxy coated reinforcing steel will be considered completely covered by the contract unit price for the slab. Variations may be encountered in the estimated quantities but the variations cannot be used for an adjustment in the contract unit price.

Method of forming the slab shall be as shown on the plans and in accordance with Sec 703. All hardware for forming the slab to be left in place as a permanent part of the structure shall be coated in accordance with ASTM A123 or ASTM B633 with a thickness class SC 4 and a finish type I, II or III.

Slab shall be cast-in-place with conventional forms or stay-in-place corrugated steel forms. Precast prestressed panels will not be permitted.



DATE PREPARED
4/1/2025

ROUTE Z STATE MO
DISTRICT BR SHEET NO. 2

COUNTY RAY

JOB NO. JKR0103

CONTRACT ID.

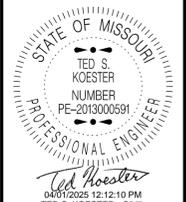
PROJECT NO.

BRIDGE NO. A9575

DESCRIPTION	DATE

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

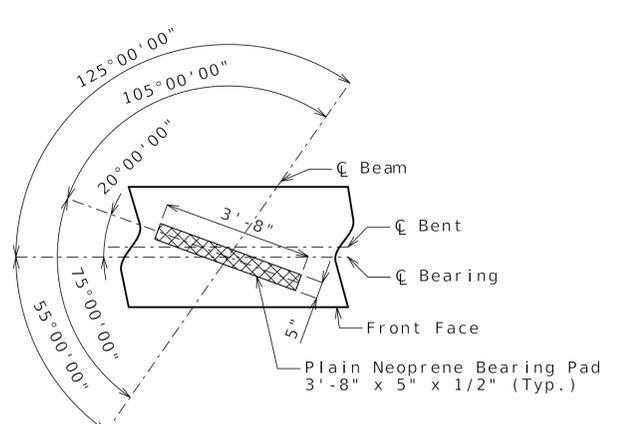




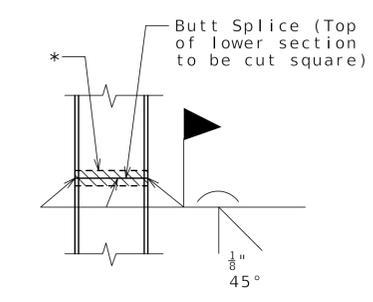
DATE PREPARED
4/1/2025
 ROUTE **Z** STATE **MO**
 DISTRICT **BR** SHEET NO. **3**
 COUNTY **RAY**
 JOB NO. **JKR0103**
 CONTRACT ID.
 PROJECT NO.
 BRIDGE NO. **A9575**

DESCRIPTION	DATE

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

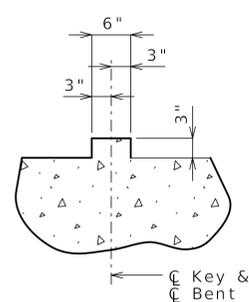


DETAIL A

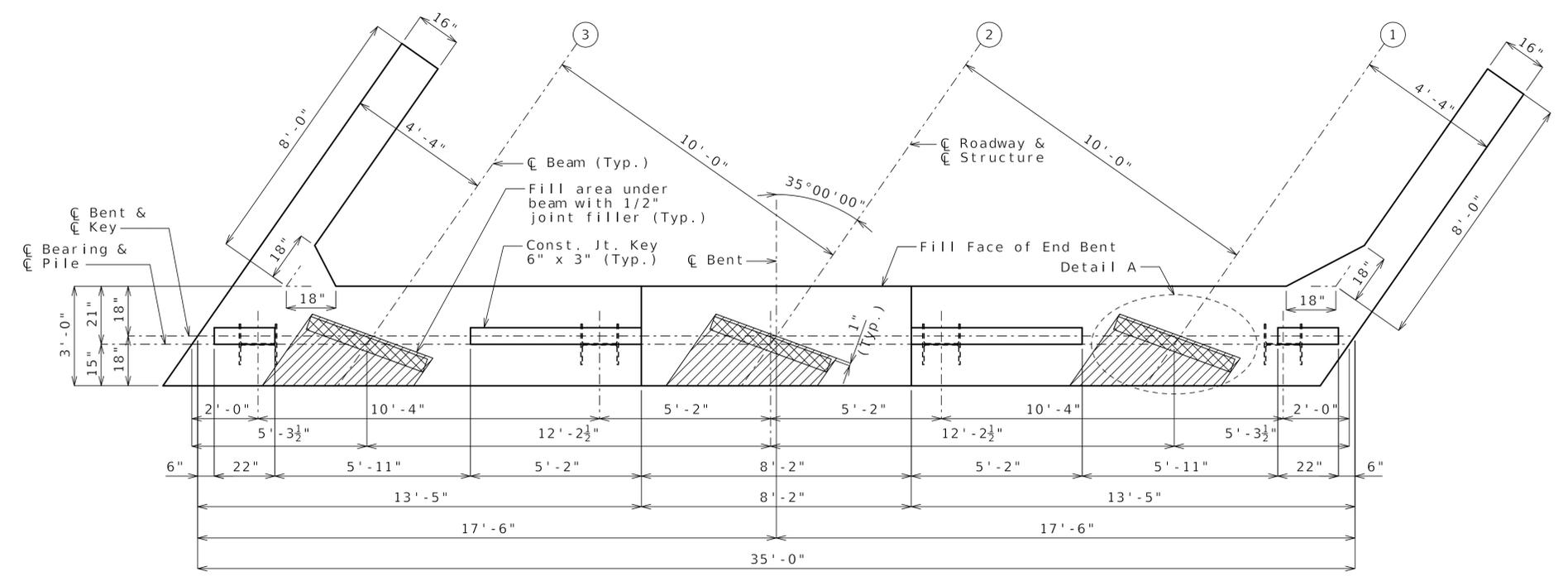


STEEL PILE SPLICE
(If required)

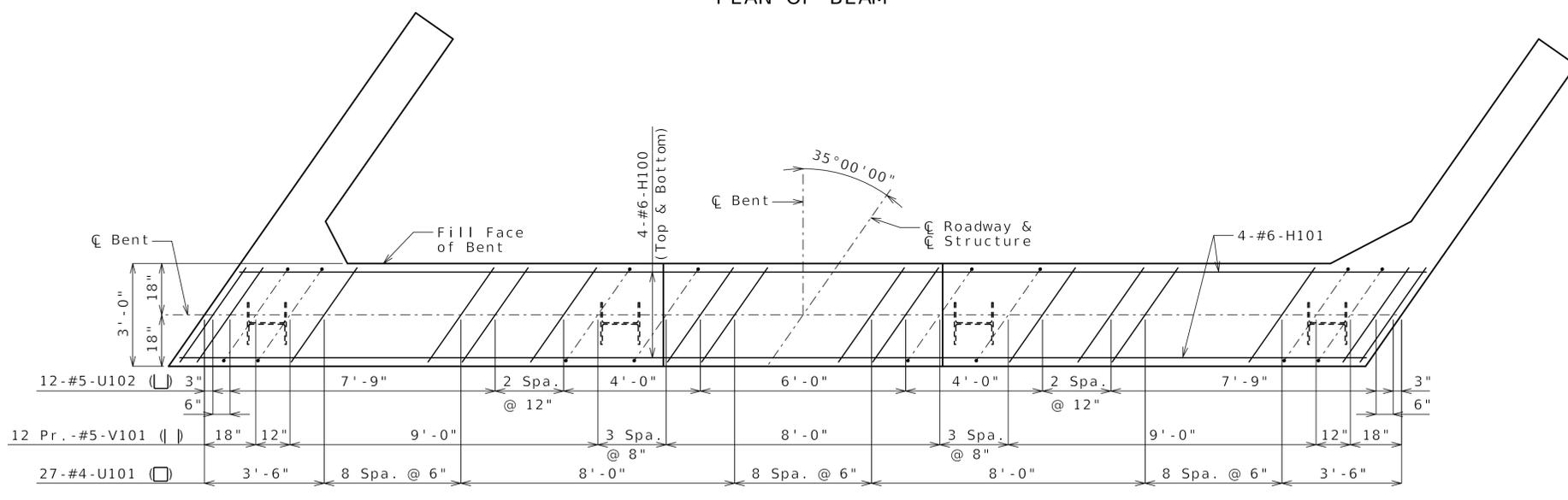
* Galvanizing material shall be omitted or removed one inch clear of weld locations in accordance with Sec 702.



SECTION THRU KEY



PLAN OF BEAM



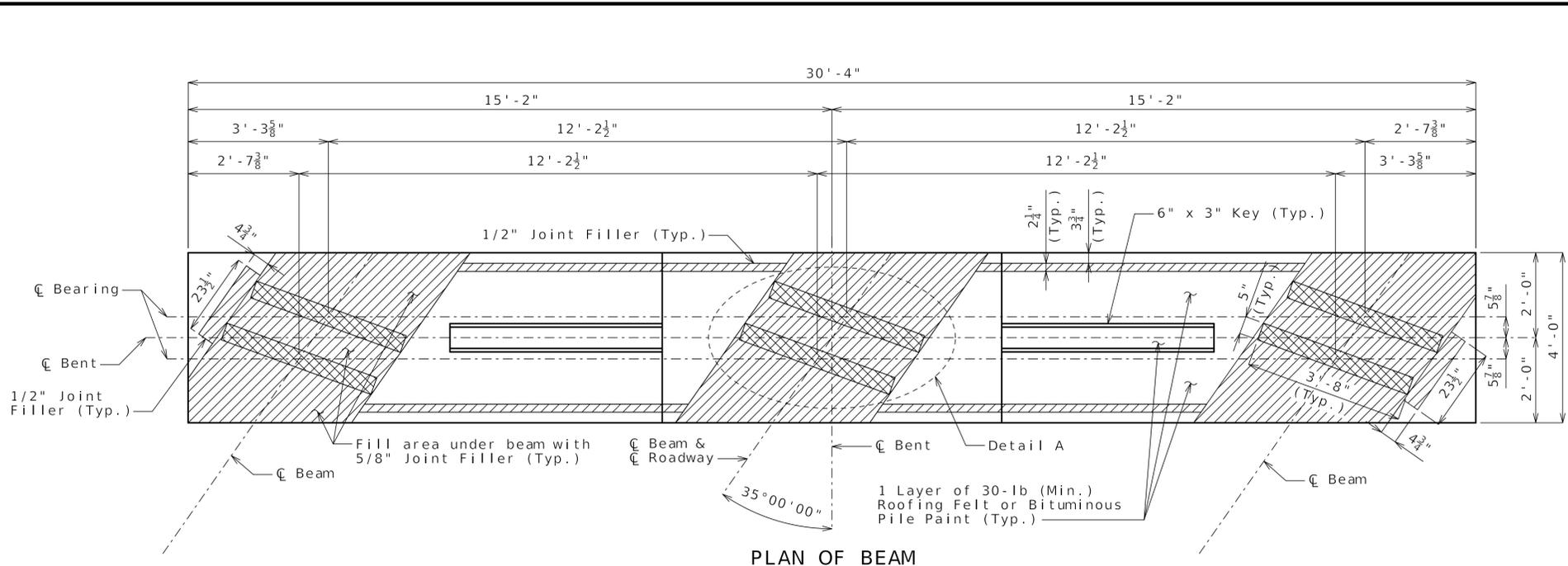
PLAN OF BEAM SHOWING REINFORCEMENT
 * 2 Spa. @ 6"

Notes:
 Work this sheet with Sheets No. 4 & 5.
 Reinforcing steel shall be shifted to clear piles. U bars shall clear piles by at least 1 1/2 inches.
 The U bars and pairs of V bars shall be placed parallel to centerline of roadway.

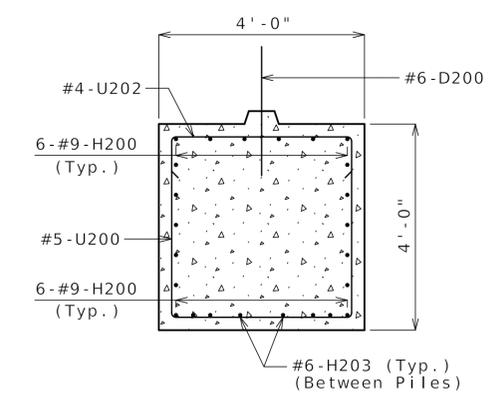
Item	Bent 1 Quantity	Bent 4 Quantity
Class 1 Excavation	cu. yard 35	35
Galvanized Structural Steel Piles (14 in.)	linear foot 412	396
Pile Point Reinforcement	each 4	4
Class B Concrete (Substructure)	cu. yard 14.6	14.6

These quantities are included in the Estimated Quantities table on Sheet No. 2.

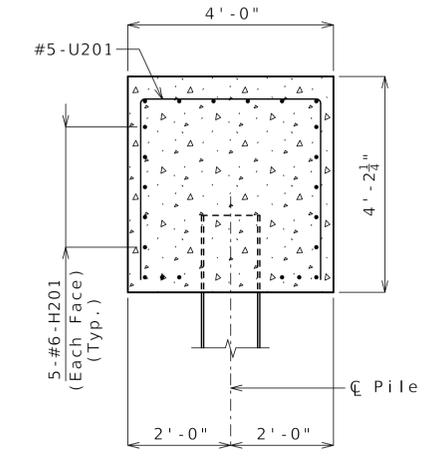
END BENTS NO. 1 & 4



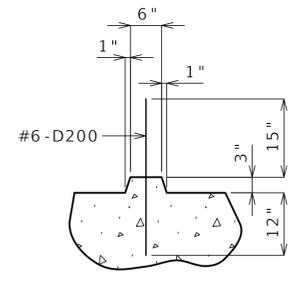
PLAN OF BEAM



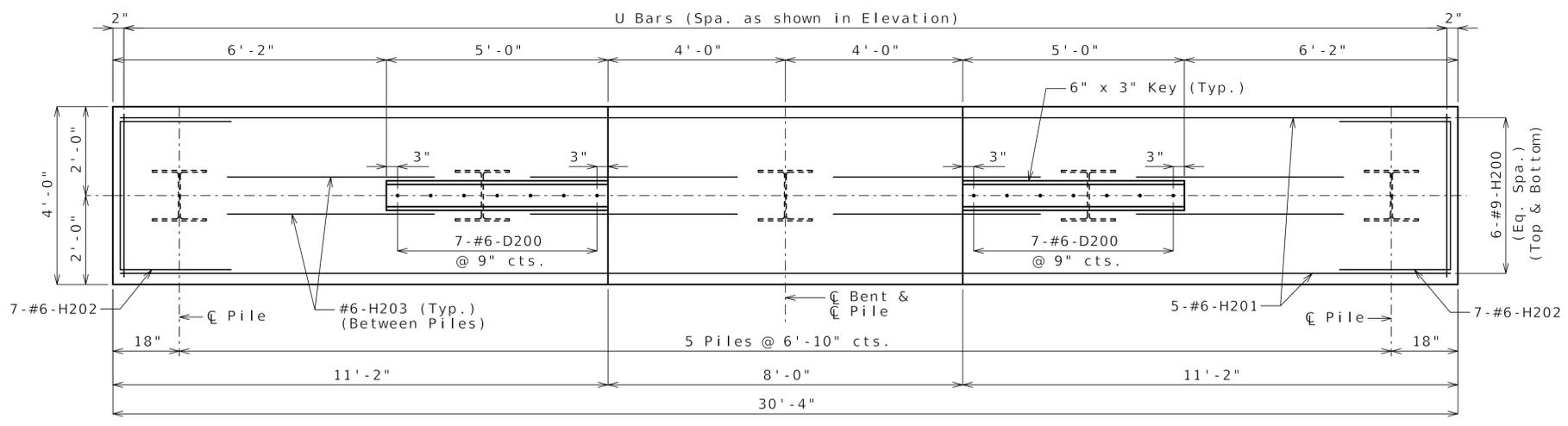
SECTION A-A



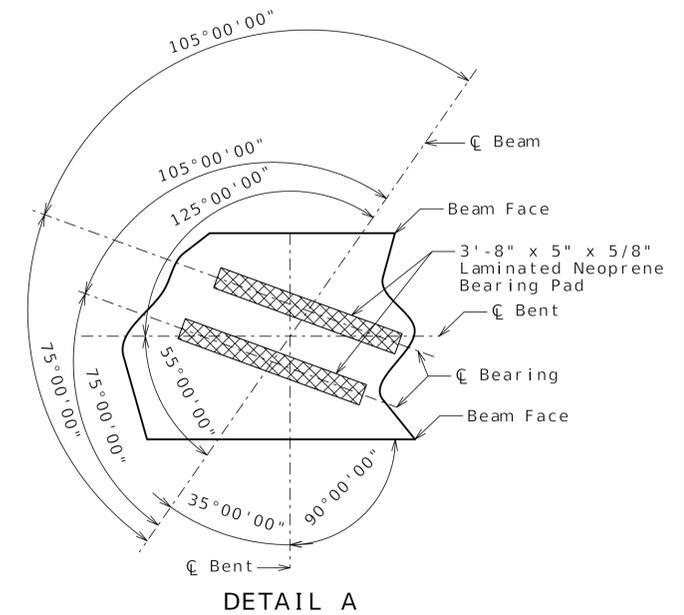
SECTION B-B



SECTION THRU KEY



PLAN OF BEAM SHOWING REINFORCEMENT



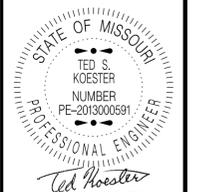
DETAIL A

Item	Unit	Bent 2 Quantity	Bent 3 Quantity
Galvanized Structural Steel Piles (14 in.)	linear foot	510	505
Pile Point Reinforcement	each	5	5
Class B Concrete (Substructure)	cu. yard	18.3	18.3
Reinforcing Steel (Bridges)	pound	2,600	2,600

These quantities are included in the Estimated Quantities table on Sheet No. 2.

Notes:
 For steps 2 inches or more, use 2 1/4 x 1/2 inch joint filler up vertical face.
 Work this sheet with Sheet No. 7.

INTERMEDIATE BENTS NO. 2 & 3

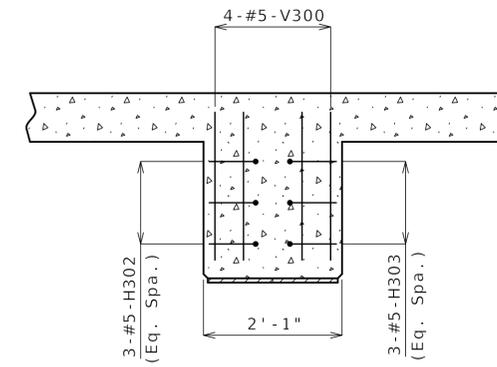
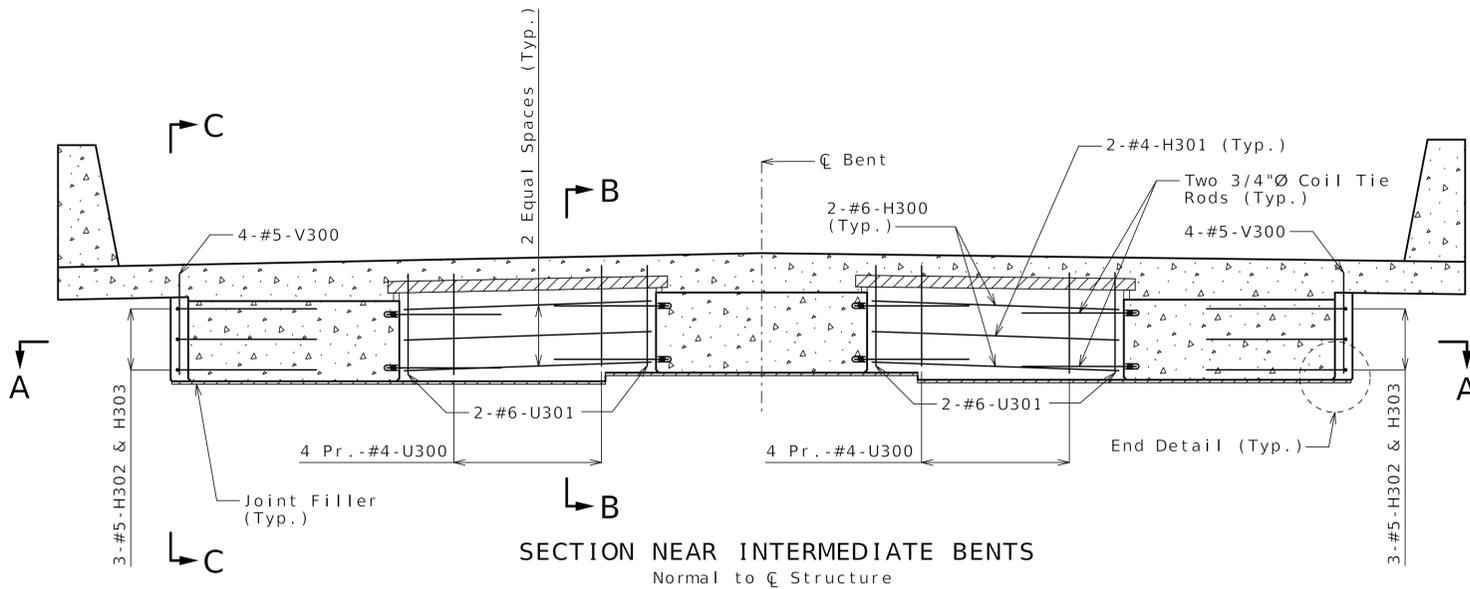


DATE PREPARED
 4/1/2025
 ROUTE Z STATE MO
 DISTRICT BR SHEET NO. 8
 COUNTY RAY
 JOB NO. JKR0103
 CONTRACT ID.
 PROJECT NO.
 BRIDGE NO. A9575

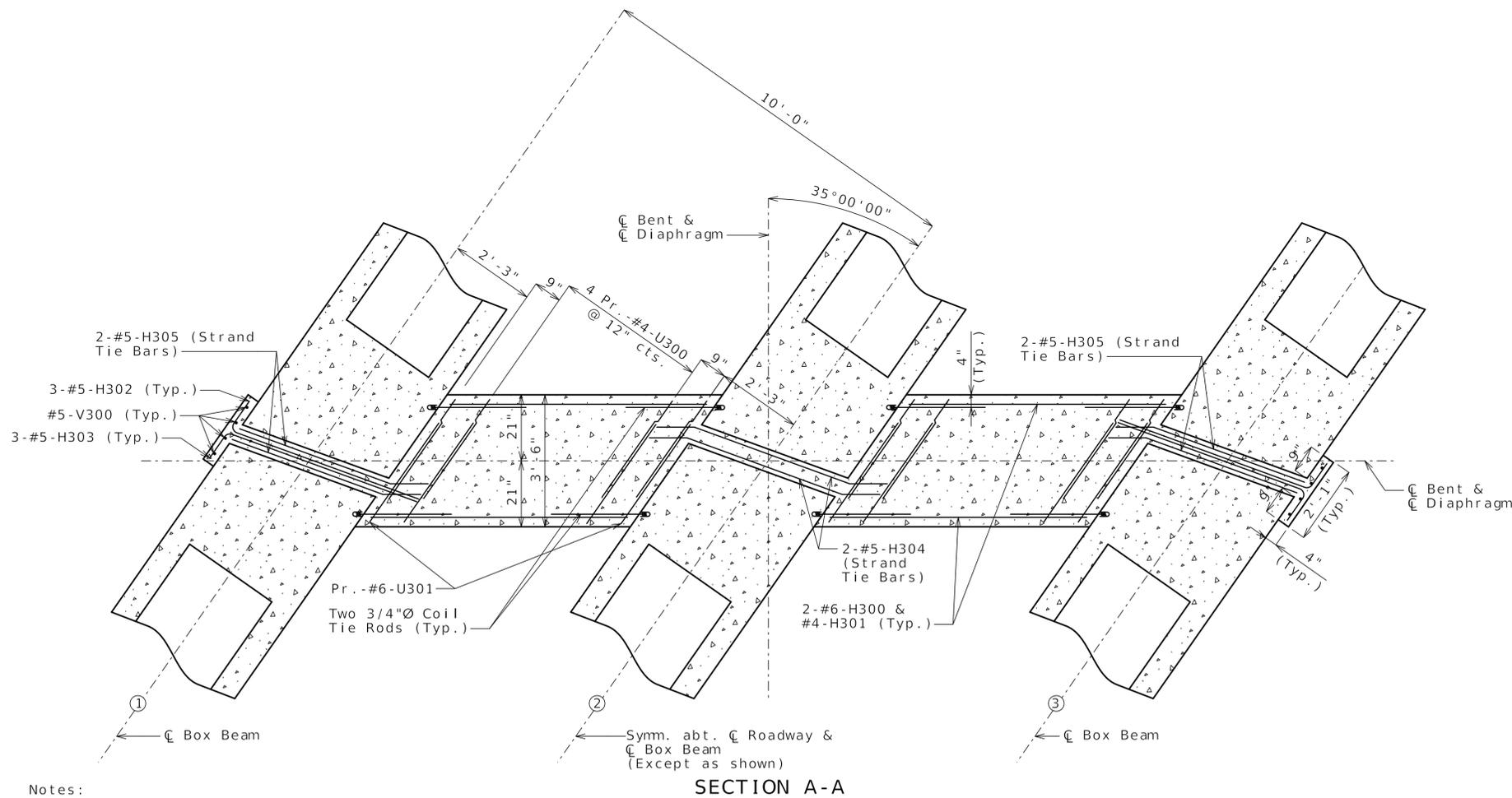
DATE	DESCRIPTION

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

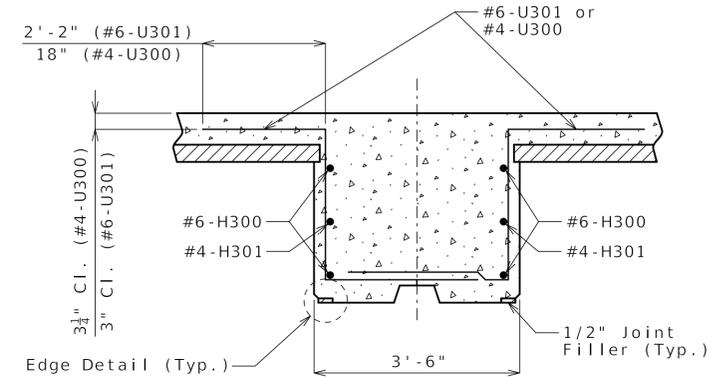




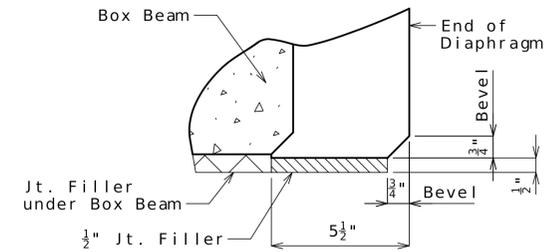
SECTION C-C



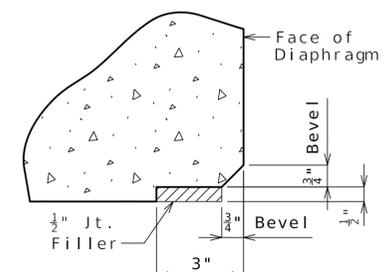
SECTION A-A



SECTION B-B



END DETAIL



EDGE DETAIL

Notes:
 Bents No. 2 & 3 will both have 300 series bar marks in the barbill. Contractor shall review barbill and split up bars accordingly.
 For location of Strand Tie Bars and Coil Tie Rods, see Sheets No. 9 & 10.
 Diaphragms at intermediate bents shall be built vertical.
 All U-bars in diaphragm shall be placed parallel to C Roadway.

DIAPHRAGMS AT INTERMEDIATE BENTS NO. 2 & 3

Detailed Feb. 2025
 Checked Mar. 2025

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

Sheet No. 11 of 22

STATE OF MISSOURI
 TED S. KOESTER
 NUMBER
 PE-2013000591
 PROFESSIONAL ENGINEER
 Ted Koester
 04/01/2025 12:15:10 PM
 TED S. KOESTER - CIVIL
 MO-PE-2013000591
 DATE PREPARED
 4/1/2025
 ROUTE Z STATE MO
 DISTRICT BR SHEET NO. 11
 COUNTY RAY
 JOB NO. JKR0103
 CONTRACT ID.
 PROJECT NO.
 BRIDGE NO. A9575
 DESCRIPTION
 DATE
 MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
 105 WEST CAPITOL JEFFERSON CITY, MO 65102
 1-888-ASK-MODOT (1-888-275-6636)



DATE PREPARED
4/1/2025

ROUTE Z STATE MO

DISTRICT BR SHEET NO. 15

COUNTY RAY

JOB NO. JKR0103

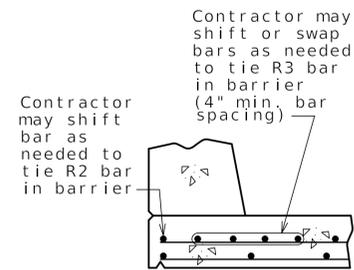
CONTRACT ID.

PROJECT NO.

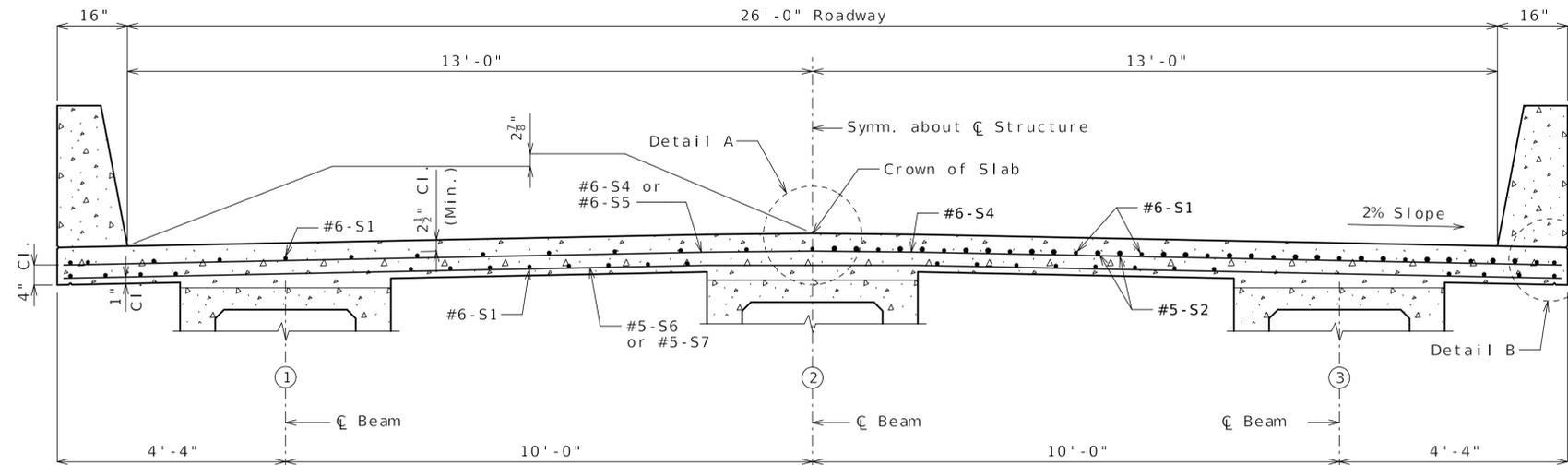
BRIDGE NO. A9575

DATE	DESCRIPTION

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



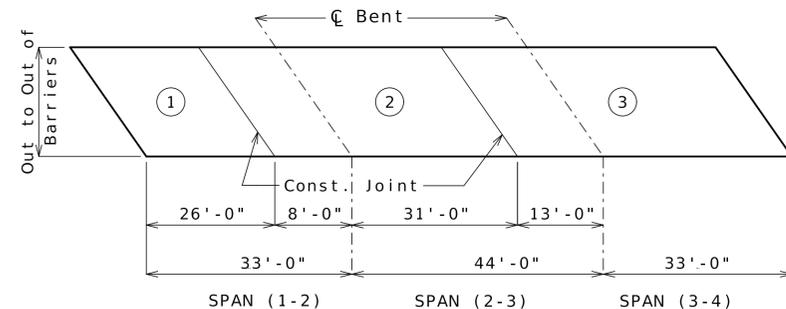
OPTIONAL SHIFTING TOP BARS AT BARRIER



HALF SECTION NEAR MIDSPAN

HALF SECTION NEAR INTERMEDIATE BENT

SECTION THRU SLAB

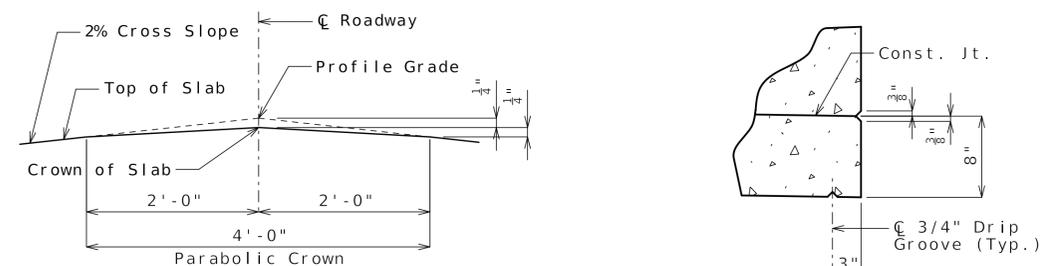


Sequence of Pours	Direction			Min. Rate of Pour Cu. Yds./Hr. With Retarder
	1	2	3	
Basic Sequence	End to 2	1 to 3	2 to End	25
Alternate pours to the basic sequence are subject to the approval of the engineer in accordance with Sec 703.				
Alternate A Pours	1 + 2	End to 3	3	25
Alternate B Pours	1 + 2 + 3	End to End	2 to End	25

The contractor shall furnish an approved retarder to retard the set of the concrete to 2.5 hours, and shall pour and satisfactorily finish the slab pours at the rate given.

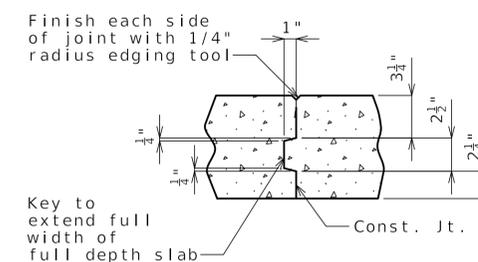
The concrete diaphragm at the intermediate bents and integral end bents shall be poured a minimum of 30 minutes and a maximum of 2 hours before the slab is poured.

SLAB POURING SEQUENCE



DETAIL A

DETAIL B



FULL DEPTH SLAB
SLAB CONSTRUCTION JOINT

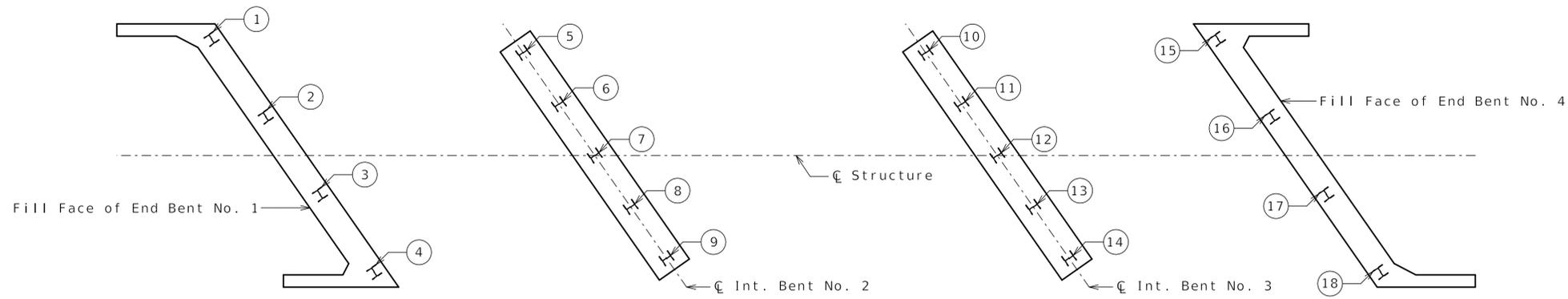
Notes:

For reinforcement of barrier not shown, see Sheets No. 16 & 17.

For Theoretical Bottom of Slab Elevations, Beam Camber Diagram and Theoretical Slab Haunching Diagram, see Sheet No. 13.

For Plan of Slab Showing Reinforcement, see Sheet No. 14.

SLAB DETAILS



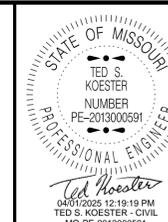
PART PLAN SHOWING PILE NUMBERING FOR RECORDING AS-BUILT PILE DATA

As-Built Pile Data			
Pile No.	Length in Place (ft)	Computed Nominal Axial Compressive Resistance (kips)	Remarks
			End Bent No. 1
1			
2			
3			
4			
			Int. Bent No. 2
5			
6			
7			
8			
9			

As-Built Pile Data			
Pile No.	Length in Place (ft)	Computed Nominal Axial Compressive Resistance (kips)	Remarks
			Int. Bent No. 3
10			
11			
12			
13			
14			
			End Bent No. 4
15			
16			
17			
18			

Note:
 Indicate in remarks column:
 A. Pile type and grade
 B. Batter
 C. Driven to practical refusal

This sheet to be completed by MoDOT construction personnel.



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4/1/2025

ROUTE Z STATE MO

DISTRICT BR SHEET NO. 21

COUNTY RAY

JOB NO. JKR0103

CONTRACT ID.

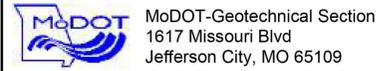
PROJECT NO.

BRIDGE NO. A9575

DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

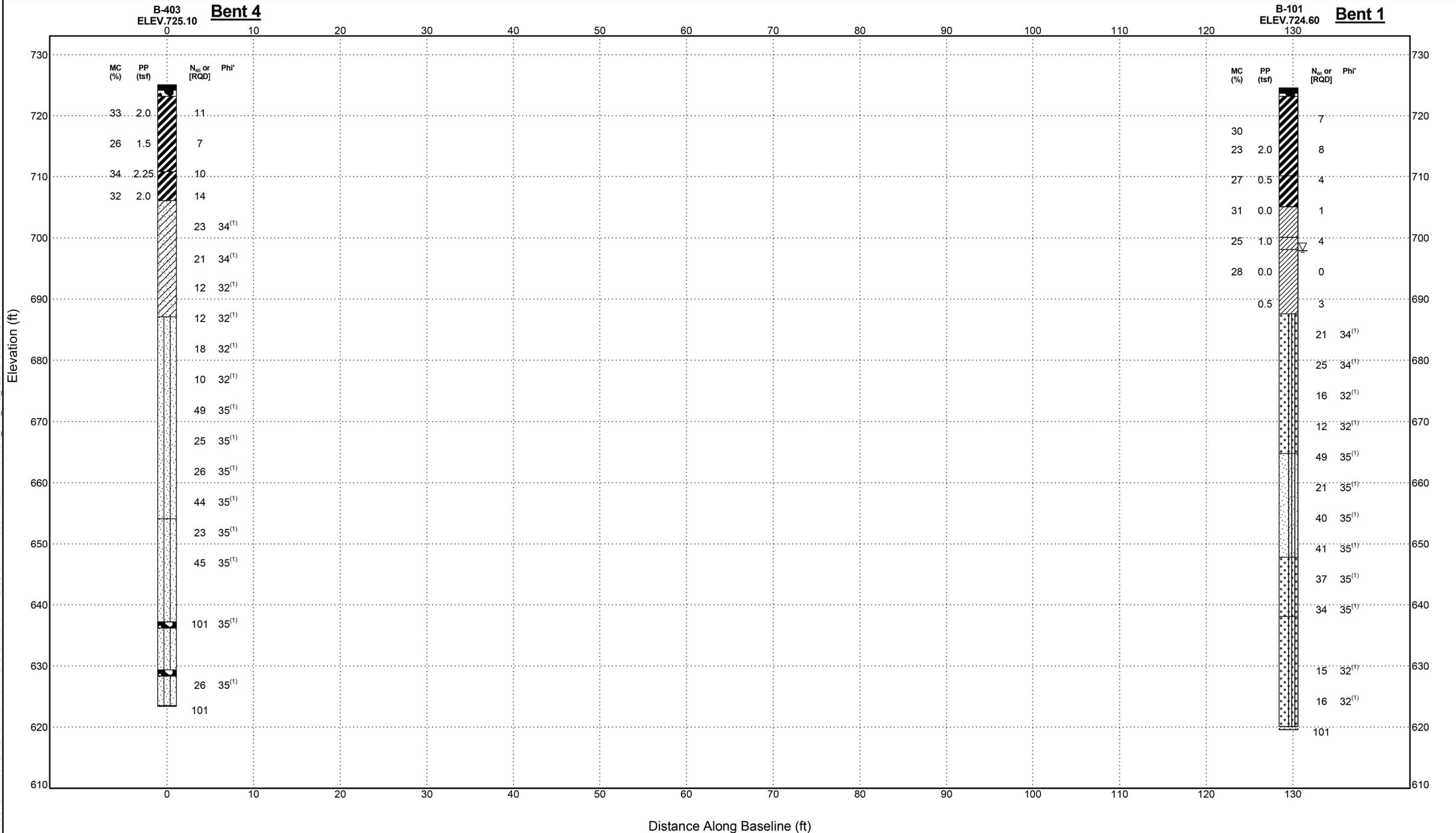
105 WEST CAPITOL
 JEFFERSON CITY, MO 65102
 1-888-ASK-MODOT (1-888-275-6636)



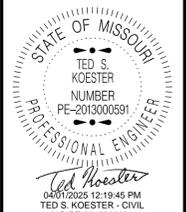
SUBSURFACE DIAGRAM

PROJECT NAME Bridge Replacement-MGK
 PROJECT LOCATION Over Keeney Creek
 CLIENT _____
 PROJECT NUMBER KR0103

Asphalt	USCS Well-graded Gravel	USCS High Plasticity Clay
USCS Low Plasticity Clay	USCS Well-graded Sand with Silt	USCS Poorly-graded Sand with Silt
Bedrock	USCS Clayey Sand	USCS Silty Sand
Boulders and cobbles		



MODOT DYNAMIC FENCE - JTP0677-A8701.GPJ - 9/10/24 07:17 - Z:\SG\GINT\PROJECT FILES\KR0103-A9575_RAY_RTZ_KEENEYCREEK.GPJ



DATE PREPARED
4/1/2025

ROUTE	STATE
Z	MO
DISTRICT	SHEET NO.
BR	22

COUNTY
RAY

JOB NO.
JKR0103

CONTRACT ID.

PROJECT NO.

BRIDGE NO.
A9575

DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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

BORING DATA

Note: For locations of borings, see Sheet No. 1.

Detailed Feb. 2025
Checked Mar. 2025

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

Sheet No. 22 of 22