

# COUNTY OF BERKS

## Purchasing Department

Berks County Services Center, 633 Court Street, Reading, PA 19601

Tel: 610-478-6168 Fax: 610-898-7404

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*George Rodrigues, Director of Contracts and Procurement*

### NOTICE TO BIDDERS

#### Amendment #2 Issued on March 10, 2026

#### Re: Invitation to Bid #26-04 SKAA

<p>This Amendment should consist of a total of 15 pages. If you have not received this Amendment in its entirety, please contact the County of Berks Purchasing Department at (610) 478-6168.</p>
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The County hereby amends the above noted Invitation to Bid (ITB) as indicated herein. All other details of the ITB remain unchanged. Language that is underlined denotes that which has been added. Language that has been stricken denotes that which is hereby removed.

Where conflict exists between these responses and information in the original ITB package, the responses shall prevail.

#### Clarification 1

##### Cover Sheet

##### Submittal Deadline

**Tuesday March 31<sup>st</sup>, 2026, 2:00 P.M. Local Prevailing Time**

Refer to Instructions to Bidders, Clause 4 for submittal instructions

#### Clarification 2

##### Division 00—Section One—Invitation to Bid

The County of Berks is accepting sealed bids from qualified bidders for Berks Road Bridge Replacement Project-Berks Road over Tributary to Plum Creek. Bids will be accepted by the County, c/o County Controller, Berks County Services Center, 633 Court Street, 12th Floor, Reading, PA, 19601, until 2:00 PM, **on Tuesday March 31<sup>st</sup>, 2026.**

**Bids will be opened publicly at 2:15 PM, on Tuesday March 31<sup>st</sup>, 2026.** Members of the public may attend the bid opening through a Microsoft Teams meeting. The Microsoft Teams URL for the opening can be located within the ITB and on the following site under the listing for this specific ITB:

<https://www.berkspa.gov/departments/purchasing/itb-rfp>. Each bid must be accompanied by bid security in the amount and form specified in the ITB package. A pre-bid meeting will be held on-site at Berks Road on Wednesday, February 18<sup>th</sup>, 2026, GPS coordinates 40°22'35.2"N 76°00'50.7"W beginning promptly at 10:00 A.M., local prevailing time. Bidders may obtain the ITB package via the following methods: (1) download the ITB package from the County's website [www.berkspa.gov](http://www.berkspa.gov) or (2) call the County's Purchasing Dept at 610-478-6168 to request the package. The County reserves the right to reject any or all bids or any part thereof and/or waive any informality in any bid received when such action is in the best interest of the County.

### **Clarification 3**

#### **Section One—Invitation to Bid #1. Bid Document Availability and Pre Bid**

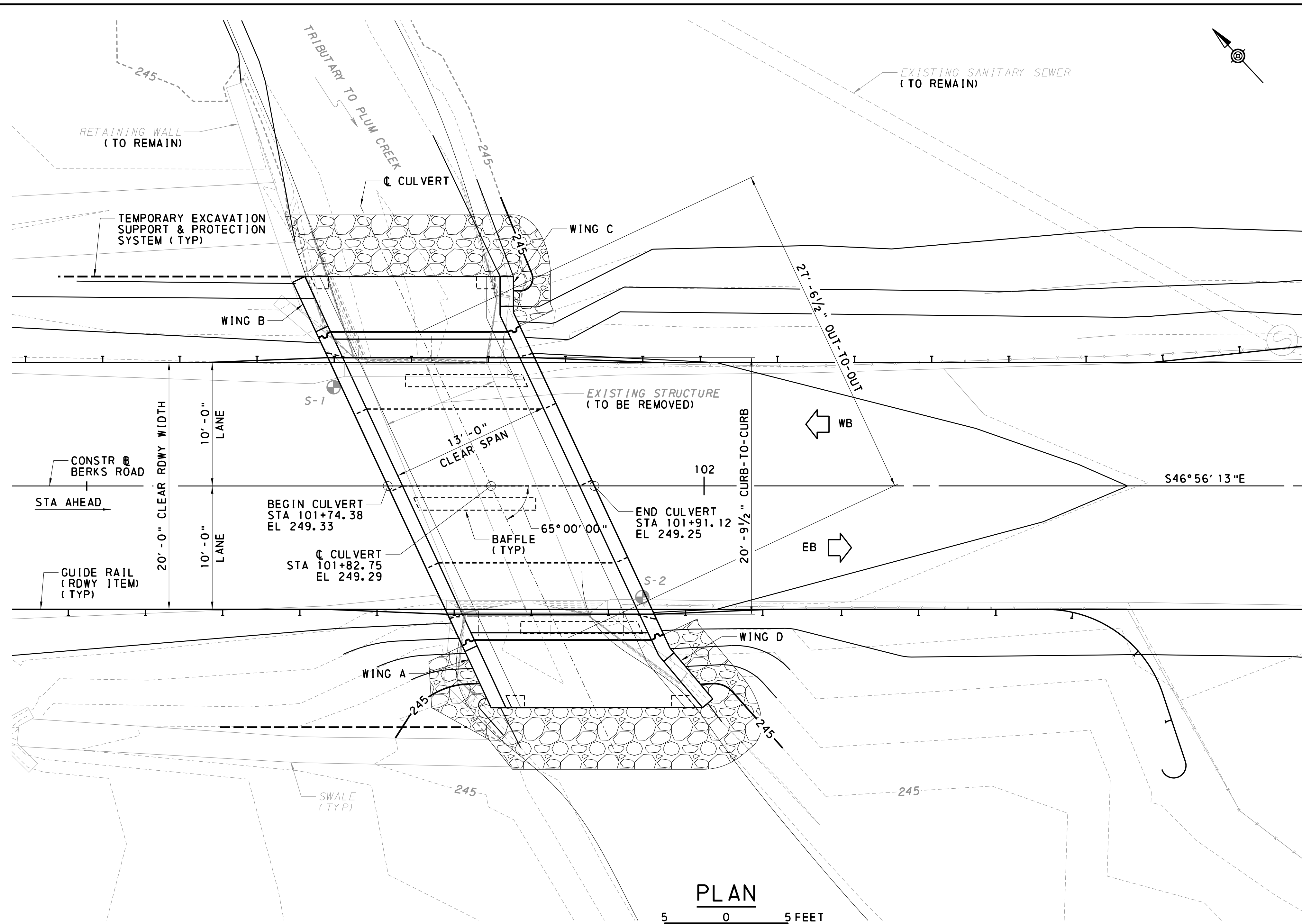
Upon receipt of Bid Documents, Bidders shall verify that the documents are complete. Bidder shall notify the County of Berks should the documents be incomplete, or upon finding discrepancies or omissions in the Bid Documents. Bidder shall be responsible for the completeness of their set of Bid Documents. No allowance or concession will be made to a Bidder who complains of missing portions of Bid Documents subsequent to the award of Bid. **All requests for clarifications must be in writing and received by the County of Berks by 5:00 PM on March 18, 2026.** All clarifications, modifications and corrections to the Bid Documents shall be issued in the form of Addenda and shall be forwarded to all known Bidders. Addenda listing revisions and changes to the Bid Documents shall become a part of and take precedence over original Bid Documents and shall be so honored by Bidders in preparing their Bids.

### **Clarification 4**

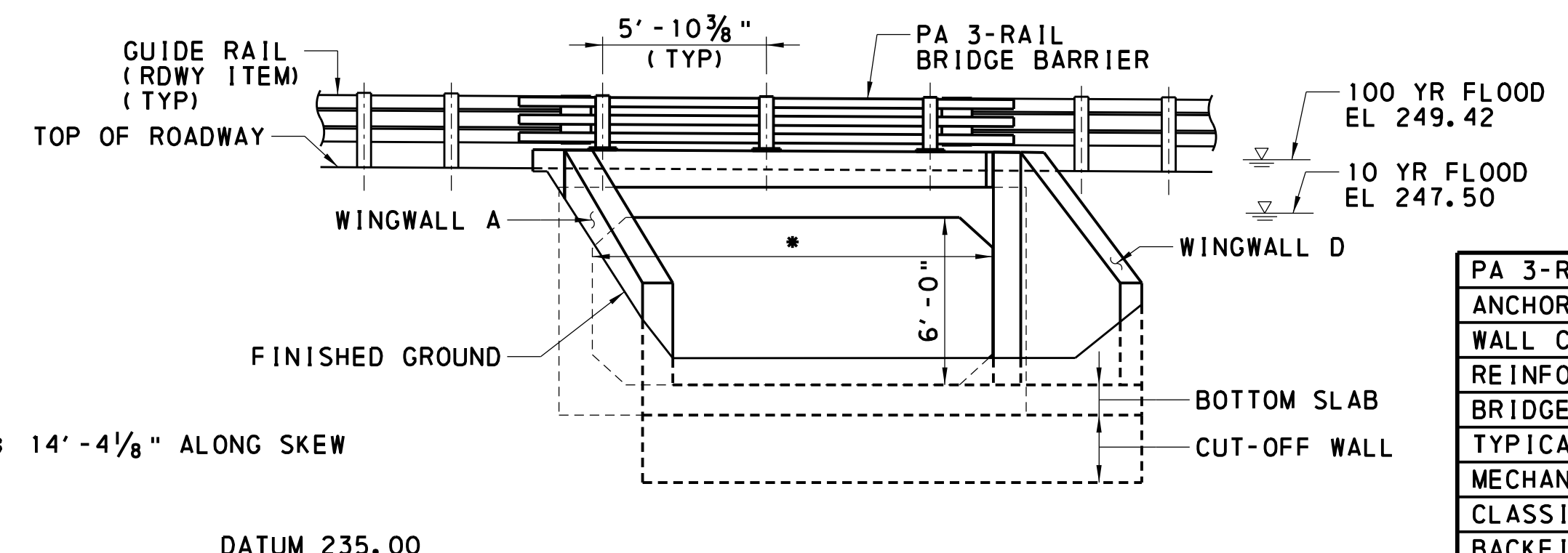
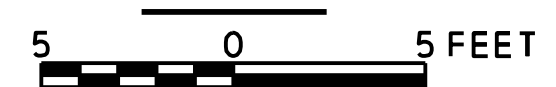
#### **Appendix F—Structural Plans**

Appendix F—Structural Plans is hereby attached and included as part of the complete ITB 26-04-SKAA

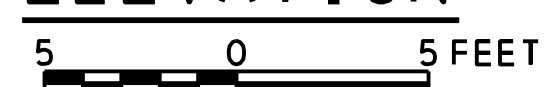
Should you have any questions regarding this Amendment, please contact Stephanie Kofke, Contract Manager, via phone at (610) 478-6168 ext. 6279 or via email at [skofke@berkspa.gov](mailto:skofke@berkspa.gov).



PLAN



ELEVATION



**HYDRAULIC DATA  
TRIBUTARY TO  
PLUM CREEK**

DRAINAGE AREA = 3.22 MI<sup>2</sup>  
 10 YEAR FLOOD (DESIGN FLOOD)  
 MAGNITUDE = 363 CFS  
 ELEVATION = 247.50 FT  
 VELOCITY = 3.93 FPS

100 YEAR FLOOD (FEMA)  
 MAGNITUDE = 839 CFS  
 ELEVATION = 249.42 FT  
 VELOCITY = 1.32 FPS

EXISTING 100 YEAR FLOOD  
 ELEVATION = 249.47 FT

FLOOD OF RECORD = N/A

**PROPOSED STRUCTURE**

STA = 101+82.75  
 TYPE = PRECAST REINFORCED  
 CONCRETE BOX CULVERT  
 SPAN = 13'-0" (CLEAR) SPAN  
 LENGTH = 27'-6"  
 CURB-TO-CURB = 20'-9 1/2"  
 UNDERCLEARANCE = 6'-0" RISE;  
 5'-0" TO STREAMBED

**EXISTING STRUCTURE**

STA = 101+81.38  
 TYPE = STEEL MULTI-GIRDER BRIDGE  
 SPAN = 11'-6" C-C BRG; 9'-5" (CLEAR)  
 OUT TO OUT = 20'-4 3/4"  
 CURB TO CURB = 18'-1 3/4"  
 UNDERCLEARANCE = 7'-0"

**LEGEND**

- EL = ELEVATION
- PGL = PROFILE GRADE LINE
- - - = EXISTING CONTOURS MINOR
- = EXISTING CONTOURS MAJOR
- = PROPOSED CONTOURS MINOR
- = PROPOSED CONTOURS MAJOR
- ⊕ = BORING LOCATION
- = ROCK CLASS R-7, CHOKED WITH STREAMBED MATERIAL (RDWY ITEM)

**VERTICAL CURVE**

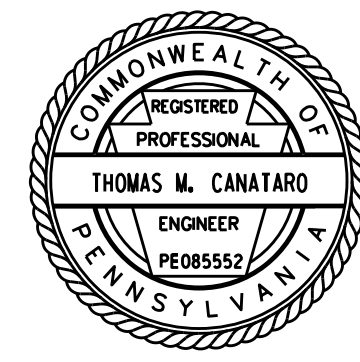
-0.50%    -2.00%  
 PVI STA 102+44.69  
 EL = 248.98  
 VC = 50.00'  
 MO = -0.09'

INDEX OF DRAWINGS	
SHEET NO	TITLE
1	GENERAL PLAN & ELEVATION
2	GENERAL NOTES & QUANTITIES
3	STAKE-OUT PLAN
4	LONGITUDINAL & TYPICAL SECTIONS
5	BAFFLE PLAN & DETAILS
6	CULVERT & DECK DETAILS
7	BARRIER DETAILS
8	UPSTREAM PRECAST END SECTION
9	DOWNSTREAM PRECAST END SECTION
10	MISCELLANEOUS DETAILS
11	REINFORCEMENT BAR SCHEDULE
12	GEOTECHNICAL INVESTIGATION PLAN
13	TEST BORING PROFILES

EXISTING BORING LOCATIONS				
NUMBER	STATION	OFFSET	NORTHING	EASTING
S-1	101+70.00	8.0' LT	384763.4198	2452098.7581
S-2	101+95.00	9.0' RT	384733.9295	2452105.4156

DESCRIPTION	DWG. NO.	RECM'D. DATE
PA 3-RAIL BRIDGE BARRIER	BC-706M	10-07-24
ANCHOR SYSTEMS	BC-734M	02-19-21
WALL CONSTRUCTION & EXPANSION JOINT DETAILS	BC-735M	09-30-16
REINFORCEMENT BAR FABRICATION DETAILS	BC-736M	11-23-22
BRIDGE DRAINAGE	BC-751M	01-31-19
TYPICAL WATERPROOFING AND EXPANSION DETAILS	BC-788M	11-23-22
MECHANICAL CONNECTION DETAILS	BC-798M	02-14-23
CLASSIFICATION OF EARTHWORK FOR STRUCTURES	RC-11M	06-01-10
BACKFILL AT STRUCTURES	RC-12M	11-01-22
SUBSURFACE DRAINS	RC-30M	12-18-24
GUIDE RAIL TO BRIDGE BARRIER TRANSITIONS	RC-50M	12-18-24
TYPE 31 STRONG POST GUIDE RAIL	RC-51M	12-18-24

SUPPLEMENTAL DRAWINGS



**BERKS ROAD BRIDGE  
REPLACEMENT PROJECT**  
 BERKS ROAD OVER TRIBUTARY TO PLUM CREEK  
 BERN TOWNSHIP  
 BERKS COUNTY, PENNSYLVANIA

**GENERAL PLAN & ELEVATION**

JOB NO.: 11169    DRWN: IRN    DATE: 10/27/2025  
 SCALE: AS STATED    CHKD: TMC    SHEET: 1 OF 13

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 10/27/2025

**GENERAL NOTES**

**DESIGN SPECIFICATIONS:**

AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS, 8TH EDITION, 2017, AND AS SUPPLEMENTED BY DESIGN MANUAL, PART 4, DECEMBER 2019 EDITION (INCLUDING LATEST REVISIONS).

DESIGN IS IN ACCORDANCE WITH THE LRFD METHOD.

**DESIGN LIVE LOADS:**

PHL-93, P-82 AND P2016-13.

**DEAD LOADS:**

INCLUDES SURFACE AREA DENSITY OF 0.030 KSF FOR FUTURE WEARING SURFACE ON THE DECK SLAB.

**GENERAL:**

PROVIDE MATERIALS AND PERFORM WORK IN ACCORDANCE WITH SPECIFICATIONS PUBLICATION 408/2020, AASHTO/AWS D1.5M/D1.5 2015 BRIDGE WELDING CODE AND THE CONTRACT SPECIAL PROVISIONS. USE AASHTO/AWS D1.1/D1.1M: 2015 FOR WELDING NOT COVERED IN AASHTO/AWS D1.5M/D1.5: 2015.

PROVIDE 2" CONCRETE COVER ON REINFORCEMENT BARS, EXCEPT AS NOTED.

USE CLASS AAAP CEMENT CONCRETE IN DECK SLAB.

USE CLASS AA CEMENT CONCRETE IN HEADWALLS / BARRIERS.

A HIGHER CLASS CONCRETE MAY BE SUBSTITUTED FOR A LOWER CLASS CONCRETE AT NO ADDITIONAL COST TO THE COUNTY.

PROVIDE GRADE 60 REINFORCING STEEL BARS THAT MEET THE REQUIREMENTS OF ASTM A 615/A 615M, A 996/A 996M OR A 706/A 706M. DO NOT WELD GRADE 60 REINFORCING STEEL BARS UNLESS SPECIFIED. GRADE 40 REINFORCING STEEL BARS MAY BE SUBSTITUTED WITH A PROPORTIONAL INCREASE IN CROSS-SECTIONAL AREA, IF APPROVED BY THE COUNTY. DO NOT USE RAIL STEEL A 996/A 996M WHERE BENDING OR WELDING OF THE REINFORCEMENT BARS IS INDICATED.

USE EPOXY-COATED REINFORCEMENT BARS.

GALVANIZED REINFORCING STEEL BARS MAY BE SUBSTITUTED FOR EPOXY-COATED REINFORCING STEEL BARS AT NO ADDITIONAL COST TO THE COUNTY.

RAKE-FINISH ALL HORIZONTAL CONSTRUCTION JOINTS, EXCEPT AS INDICATED.

CHAMFER EXPOSED CONCRETE EDGES 3/4" BY 3/4", EXCEPT AS NOTED.

ALL DIMENSIONS SHOWN ARE HORIZONTAL, EXCEPT AS NOTED.

DECK SLAB THICKNESS INCLUDES A 1/2" INTEGRAL WEARING SURFACE.

SUPERSTRUCTURE DIMENSIONS SHOWN ARE FOR A NORMAL TEMPERATURE OF 68° F.

PROVIDE MINIMUM EMBEDMENT AND SPLICE LENGTHS IN ACCORDANCE WITH STANDARD DRAWING BC-736M, UNLESS OTHERWISE INDICATED.

WELDING OF REINFORCEMENT BARS DURING FABRICATION OR CONSTRUCTION IS NOT PERMITTED UNLESS SPECIFIED.

STATIONS AND ELEVATIONS ARE GIVEN IN FEET UNLESS OTHERWISE NOTED.

DO NOT USE ADHESIVE ANCHORS IN A TENSION APPLICATION FOR PERMANENT INSTALLATIONS.

NOTIFY THE REGIONAL HEADQUARTERS OF THE FISH COMMISSION PRIOR TO CONSTRUCTION AND COOPERATE WITH FISH COMMISSION DURING CONSTRUCTION. THE WATERWAY CONSERVATION OFFICE FOR THIS PROJECT IS:

ADDRESS: 255 WEST BRUBAKER VALLEY ROAD  
LITITZ, PA 17543  
TELEPHONE: (717) 626-0228

USE EPOXY BONDING COMPOUND WHENEVER CAST-IN-PLACE CEMENT CONCRETE COMES INTO CONTACT WITH PRECAST CEMENT CONCRETE OR EXISTING CONCRETE. THE EPOXY BONDING COMPOUND IS TYPE 2, GRADE 2, AS DESCRIBED IN ASTM-C881-90.

**REINFORCED CONCRETE BOX CULVERT:**

USE MINIMUM 5,000 PSI 28-DAY COMPRESSIVE STRENGTH CONCRETE FOR ALL PRECAST SECTIONS.

USE MINIMUM 3,000 PSI 28-DAY COMPRESSIVE STRENGTH CONCRETE FOR BAFFLES.

DO NOT EXCEED A 2 FT DIFFERENCE IN FILL ELEVATION ON THE SIDES DURING PLACEMENT OF THE BACKFILL. DO NOT ALLOW THE WHEELS OF ROLLERS TO COME CLOSER THAN 1 FT TO THE FACE OF THE STRUCTURE DURING COMPACTION OF THE BACKFILL.

**FOUNDATION NOTES:**

PRIOR TO PLACEMENT OF CULVERT BEDDING, ALLOW THE REPRESENTATIVE TO INSPECT THE BOTTOM OF EXCAVATION. AS DIRECTED BY THE REPRESENTATIVE, EXCAVATE ANY SOFT, YIELDING, OR UNSUITABLE MATERIAL WITHIN THE BOTTOM OF EXCAVATION ELEVATION AND REPLACE WITH COMPACTED PENNDOT NO. 2A COARSE AGGREGATE OR CLASS C CEMENT CONCRETE.

BLASTING IS NOT PERMITTED FOR ROCK EXCAVATION FOR FOUNDATION CONSTRUCTION, IF ENCOUNTERED.

THE PROPOSED BOTTOM OF EXCAVATION FOR PLACEMENT OF THE PRECAST BOX CULVERT AND END SECTIONS WILL BE BELOW THE NORMAL WATER LEVEL. THEREFORE, DEWATERING OF EXCAVATION WILL BE NECESSARY DURING CONSTRUCTION. THE CONTRACTOR IS RESPONSIBLE TO PROVIDE NECESSARY DEWATERING SO THAT ALL EXCAVATIONS ARE DRY ENOUGH FOR CONSTRUCTION AND INSPECTION. ALL CONCRETE MUST BE PLACED ON A BEARING SURFACE FREE OF DEBRIS, LOOSE MATERIAL, AND SURFACE WATER.

THE CONTRACTOR IS RESPONSIBLE FOR THE STABILITY OF ALL EXCAVATED SLOPES. CONSTRUCT ALL TEMPORARY SLOPES NO STEEPER THAN 1.5H:1V AND ALL PERMANENT SLOPES NOT STEEPER THAN 2H:1V. STABILIZE THESE SLOPES FOLLOWING SECTION 806 OF PENNDOT PUBLICATION 408. TEMPORARY SLOPES SHOULD MEET OSHA REQUIREMENTS.

SITE CLASS IS NOT CLASS E.

SEE ADDITIONAL FOUNDATION NOTES ON SHEET 12.

**UTILITY:**

COORDINATE, LOCATE, AND CONDUCT ALL WORK RELATED TO PUBLIC AND PRIVATE UTILITIES IN ACCORDANCE WITH PUBLICATION 408, SECTIONS 105.06 AND 107.12.

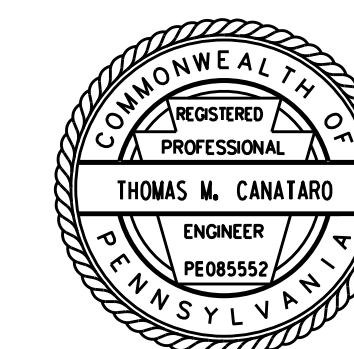
TABULATION OF STRUCTURE BID ITEMS & APPROXIMATE QUANTITIES			
QUANTITY	ITEM NUMBER	QUANTITY & UNIT	DESCRIPTION
LS	8510 0001		PRECAST CONCRETE BOX CULVERT, AS DESIGNED
	LS	(1)	259 CY CLASS 3 EXCAVATION
		(1)	203 CY STRUCTURE BACKFILL
		(1)	529 SY GEOTEXTILE, CLASS 4, TYPE A
		(1)	20 SY MEMBRANE WATERPROOFING SYSTEM INSTALLED ON OTHER SURFACES (6)
		(1)	164 CY NO. 2A COARSE AGGREGATE (8)
		(1)	2 CY NO. 57 COARSE AGGREGATE (2)
		(1)	9 CY CLASS AAAP CEMENT CONCRETE (4)
		(1)	3 CY CLASS AA CEMENT CONCRETE (3)
		(1)	47 SY PROTECTIVE COATING FOR REINFORCED CONCRETE SURFACES (7)
		(1)	28 LF 13'-0" X 6'-0" PRECAST REINFORCED CONCRETE BOX CULVERT (5)
		(1)	2 EA PRECAST REINFORCED CONCRETE END SECTION (5)
		(1)	2 EA PRECAST REINFORCED CONCRETE CUTOFF WALL
		(1)	34 LF PA 3 RAIL BRIDGE BARRIER
AND 1250	1002 0052		REINFORCEMENT BARS, EPOXY COATED
	LB		
LS	5018 0001		REMOVAL OF EXISTING BRIDGE STRUCTURE *
	LS		
[ 42]	9000 0003		OVER-EXCAVATION AND BACKFILLING WITH NO 2A COARSE AGGREGATE *
	CY		
LS	9203 2101		TEMPORARY EXCAVATION SUPPORT AND PROTECTION SYSTEM *
	LS		

- \* SEE SPECIAL PROVISIONS.
- (1) ITEMS IN BRIDGE LUMP SUM ITEM 8510-0001 - GIVEN FOR INFORMATION ONLY.
  - (2) GEOTEXTILE, CLASS 1, IS INCIDENTAL TO NO. 57 COARSE AGGREGATE.
  - (3) INCLUDES CLASS AA CEMENT CONCRETE IN HEADWALLS/BARRIERS.
  - (4) INCLUDES CLASS AAAP CEMENT CONCRETE IN DECK SLAB.
  - (5) INCLUDES INSERTS, GALVANIZED STRAPS, & BOLTS, POST-TENSIONING, AND GROUTING.
  - (6) INCLUDES WATERPROOFING ALONG CULVERT JOINTS AND CUT-OFF WALLS.
  - (7) INCLUDES LIMITS SHOWN FOR CURBS AND DECK CONCRETE.
  - (8) INCLUDES BEDDING BELOW CULVERT, PREFORMED DRAINS, AND COMPACTED 2A SHOWN IN THE COMPACTED FILL DETAIL.
- [XX] QUANTITY GIVEN FOR INFORMATION ONLY; BASED ON MAXIMUM 2'-0" OVER-EXCAVATION FOR CULVERT AND APRON BEDDING BELOW EL 237.00.

BOX CULVERT BEARING PRESSURE & RESISTANCE		
LIMIT STATE/STAGE	DESIGN PRESSURE	BEARING RESISTANCE
STRENGTH-I	2.11 TSF	3.31 TSF

PRECAST REINFORCED CONCRETE BOX RATING SUMMARY								
SUMMARY OF STRUCTURE RATINGS								
WITH FUTURE WEARING SURFACE		PRECAST BOX CULVERT						
		H-20	HS-20	ML-80	PHL-93	P-82	TK-527	P2016-13
INVENTORY RATING (IR)	MEMBER	TOP SLAB	BOT SLAB	BOT SLAB	BOT SLAB	BOT SLAB	BOT SLAB	BOT SLAB
	LOCATION (FT)	4.30	12.44	1.90	4.30	-	12.44	-
	LIMIT STATE	STR-I	STR-I	STR-I	STR-I	-	STR-I	-
	RATING FACTOR	1.91 (V)	1.78 (V)	1.50 (V)	1.25 (V)	-	1.64 (V)	-
	RATING-TONS	38.26	64.21	55.11	-	-	65.66	-
OPERATING RATING (OR)	MEMBER	TOP SLAB	BOT SLAB	BOT SLAB	BOT SLAB	BOT SLAB	BOT SLAB	BOT SLAB
	LOCATION (FT)	4.30	12.44	1.90	4.30	1.90	12.44	1.90
	LIMIT STATE	STR-II	STR-II	STR-II	STR-IA	STR-II	STR-II	STR-II
	RATING FACTOR	2.48 (V)	2.31 (V)	1.95 (V)	1.61 (V)	1.50 (V)	2.13 (V)	1.62 (V)
	RATING-TONS	49.59	83.24	71.44	-	152.60	85.12	266.70
WITHOUT FUTURE WEARING SURFACE		PRECAST BOX CULVERT						
		H-20	HS-20	ML-80	PHL-93	P-82	TK-527	P2016-13
INVENTORY RATING (IR)	MEMBER	TOP SLAB	BOT SLAB	BOT SLAB	TOP SLAB	-	BOT SLAB	-
	LOCATION (FT)	4.30	12.44	1.90	4.30	-	12.44	-
	LIMIT STATE	STR-I	STR-I	STR-I	STR-I	-	STR-I	-
	RATING FACTOR	1.93 (V)	1.82 (V)	1.54 (V)	1.26 (V)	-	1.68 (V)	-
	RATING-TONS	38.63	65.51	56.26	-	-	67.03	-
OPERATING RATING (OR)	MEMBER	TOP SLAB	BOT SLAB	BOT SLAB	TOP SLAB	BOT SLAB	BOT SLAB	BOT SLAB
	LOCATION (FT)	4.30	12.44	1.90	4.30	1.90	12.44	1.90
	LIMIT STATE	STR-II	STR-II	STR-II	STR-IA	STR-II	STR-II	STR-II
	RATING FACTOR	2.50 (V)	2.36 (V)	1.99 (V)	1.63 (V)	1.53 (V)	2.17 (V)	1.65 (V)
	RATING-TONS	50.08	84.92	72.93	-	155.68	86.89	272.09

- RATING NOTES:**
- RATING OBTAINED BY THE LOAD AND RESISTANCE FACTOR DESIGN (LRFD) METHOD.
  - (M) DENOTES FLEXURE, (V) DENOTES SHEAR
  - WALL DISTANCES BEGIN AT THE BOTTOM OF THE WALL AND SLAB DISTANCES BEGIN AT THE LEFT SIDE OF THE SLAB.



NO.	DATE	REVISION

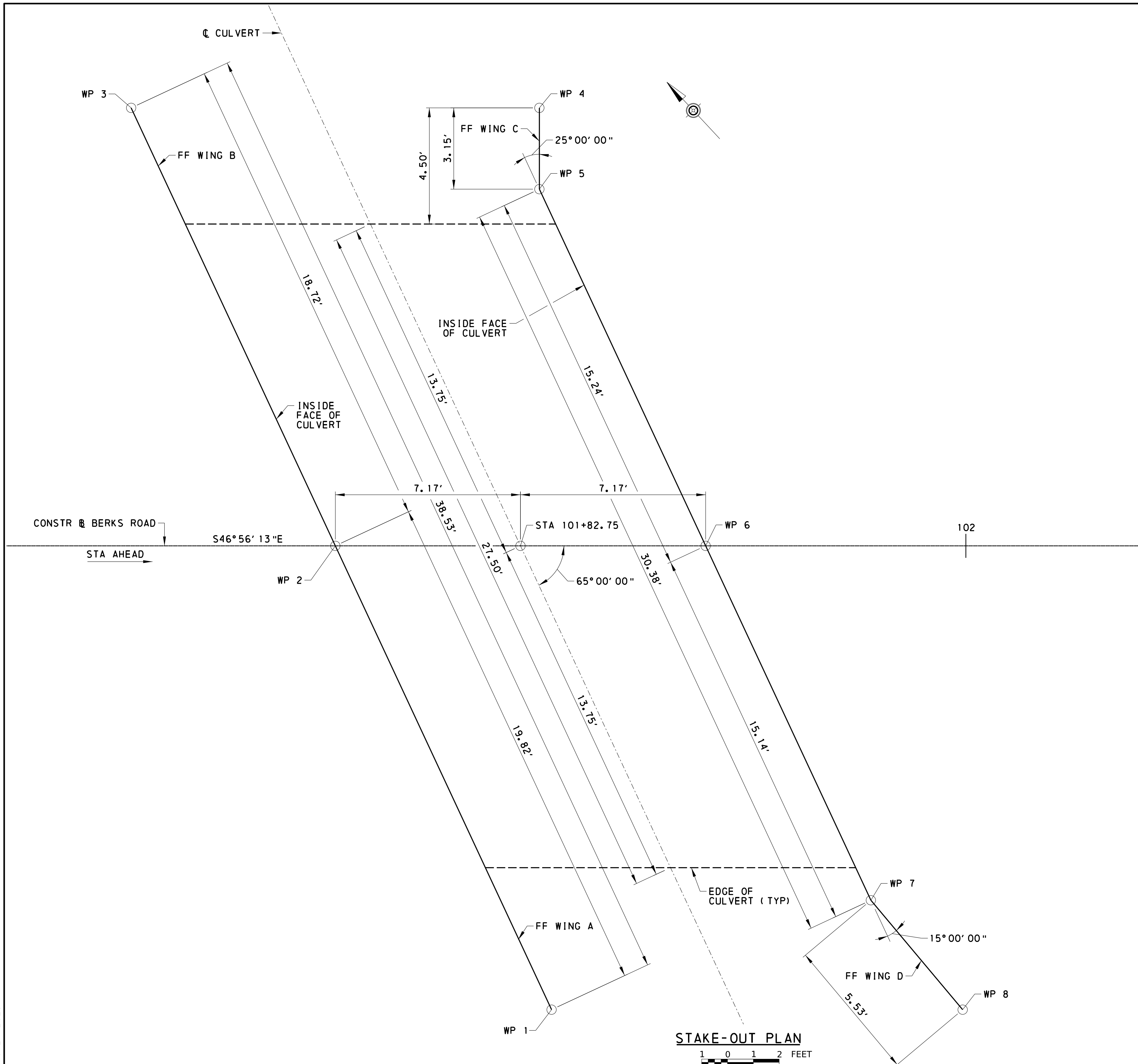
**McCORMICK TAYLOR**  
Eagleview Corporate Center  
600 Eagleview Boulevard  
2nd Floor  
Exton, PA 19341  
(610) 640-3500

**BERKS ROAD BRIDGE REPLACEMENT PROJECT**  
BERKS ROAD OVER TRIBUTARY TO PLUM CREEK  
BERN TOWNSHIP  
BERKS COUNTY, PENNSYLVANIA

**GENERAL NOTES & QUANTITIES**

JOB NO.: 11169	DRWN: IRN	DATE: 10/27/2025
SCALE: N/A	CHKD: TMC	SHEET: 2 OF 13

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10/27/2025



WP COORDINATES				
WP	NORTHING	EASTING	STATION	OFFSET ( f t)
1	384735.6941	2452096.1301	101+83.95	17.96 RT
2	384754.5359	2452102.2752	101+75.58	0.00
3	384772.3287	2452108.0780	101+67.67	16.96 LT
4	384761.5319	2452119.6308	101+83.48	16.96 LT
5	384759.2309	2452117.4804	101+83.48	13.81 LT
6	384744.7418	2452112.7549	101+89.92	0.00
7	384730.3455	2452108.0598	101+96.32	13.72 RT
8	384724.8212	2452107.7642	101+99.88	17.96 RT

NOTE: FOUR PLACE COORDINATES ARE FOR COMPUTATIONAL PURPOSES ONLY AND DO NOT IMPLY A PRECISION BEYOND TWO DECIMAL PLACES.

NO.	DATE	REVISION

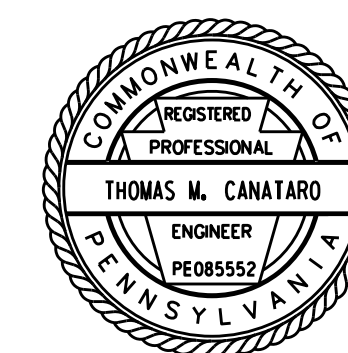


Eagleview Corporate Center  
600 Eagleview Boulevard  
2nd Floor  
Exton, PA 19341  
(610) 640-3500

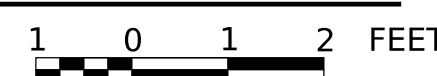
**BERKS ROAD BRIDGE REPLACEMENT PROJECT**  
BERKS ROAD OVER TRIBUTARY TO PLUM CREEK  
BERN TOWNSHIP  
BERKS COUNTY, PENNSYLVANIA

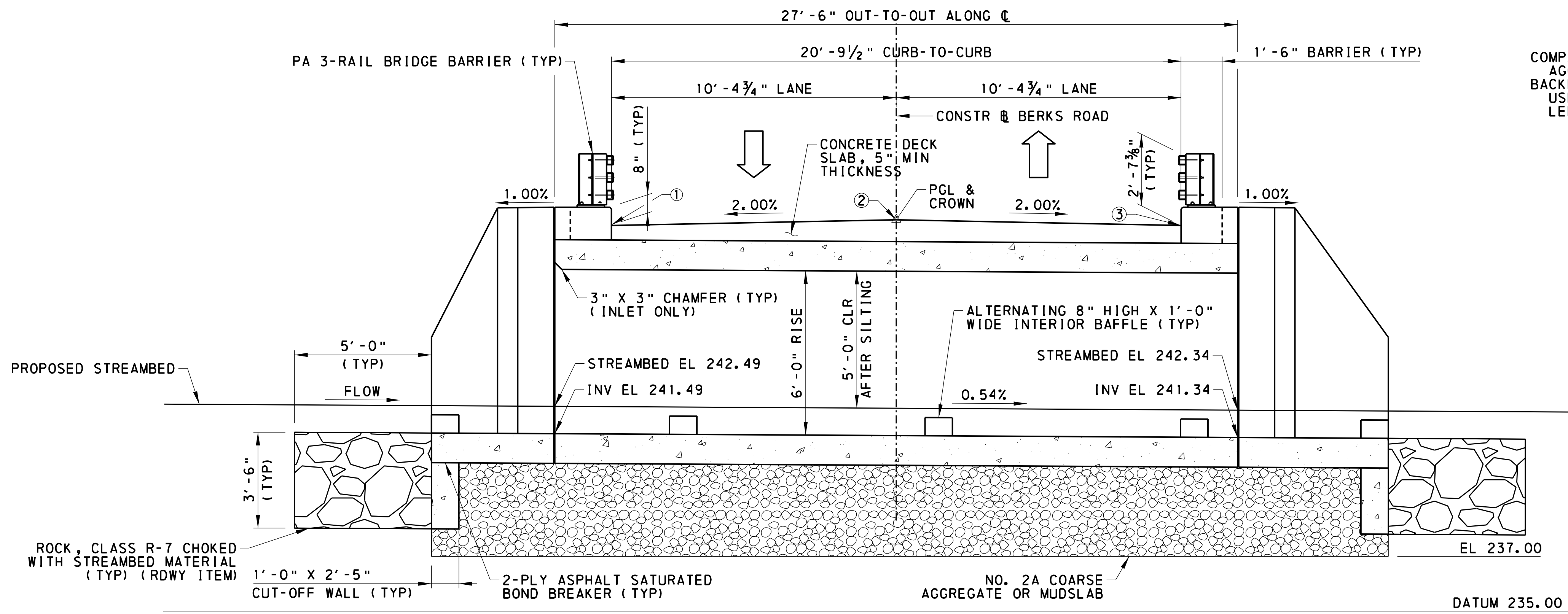
**STAKE-OUT PLAN**

JOB NO.: 11169	DRWN: IRN	DATE: 10/27/2025
SCALE: AS STATED	CHKD: TMC	SHEET: 3 OF 13

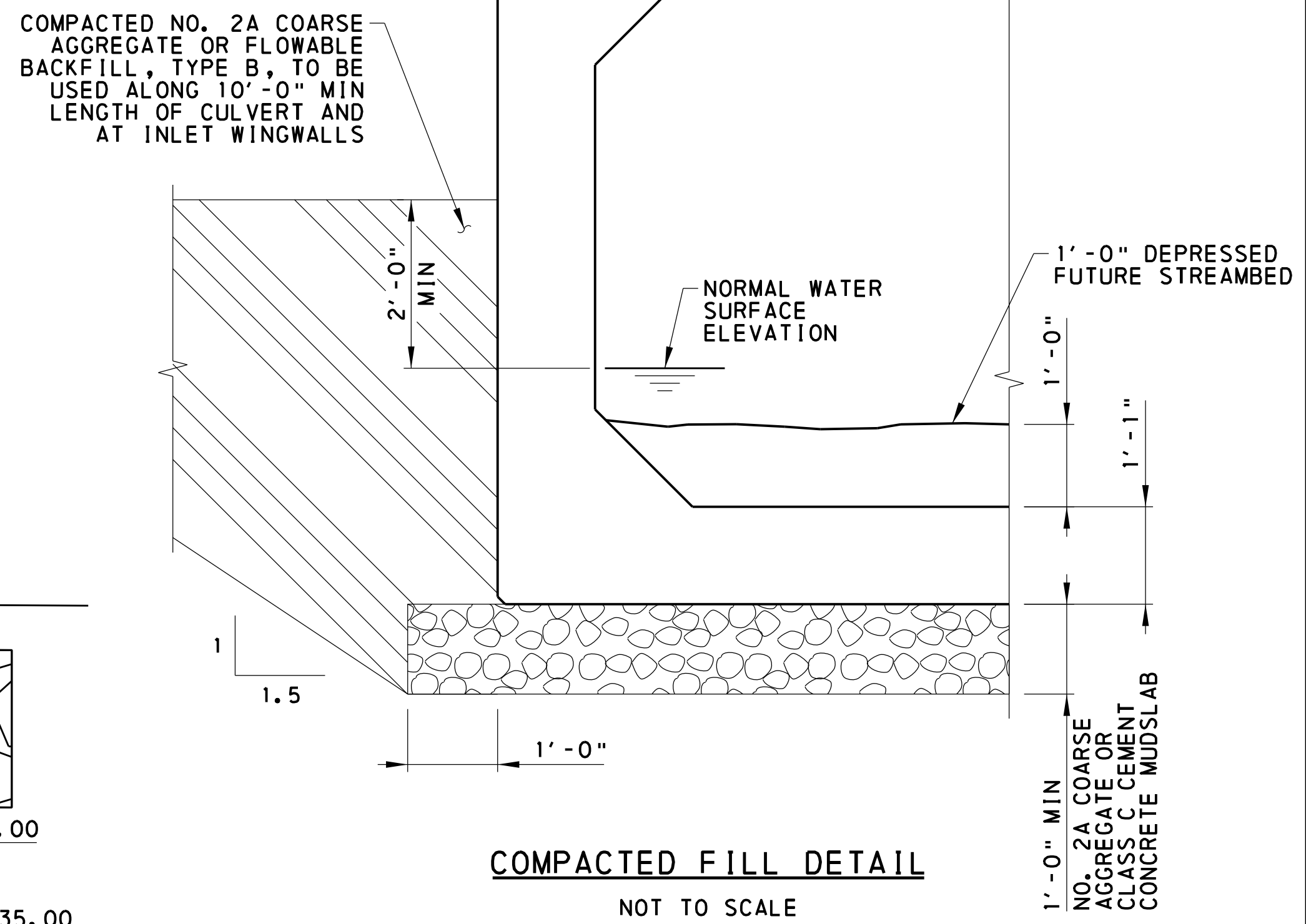
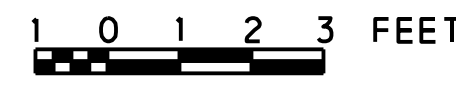


STAKE-OUT PLAN



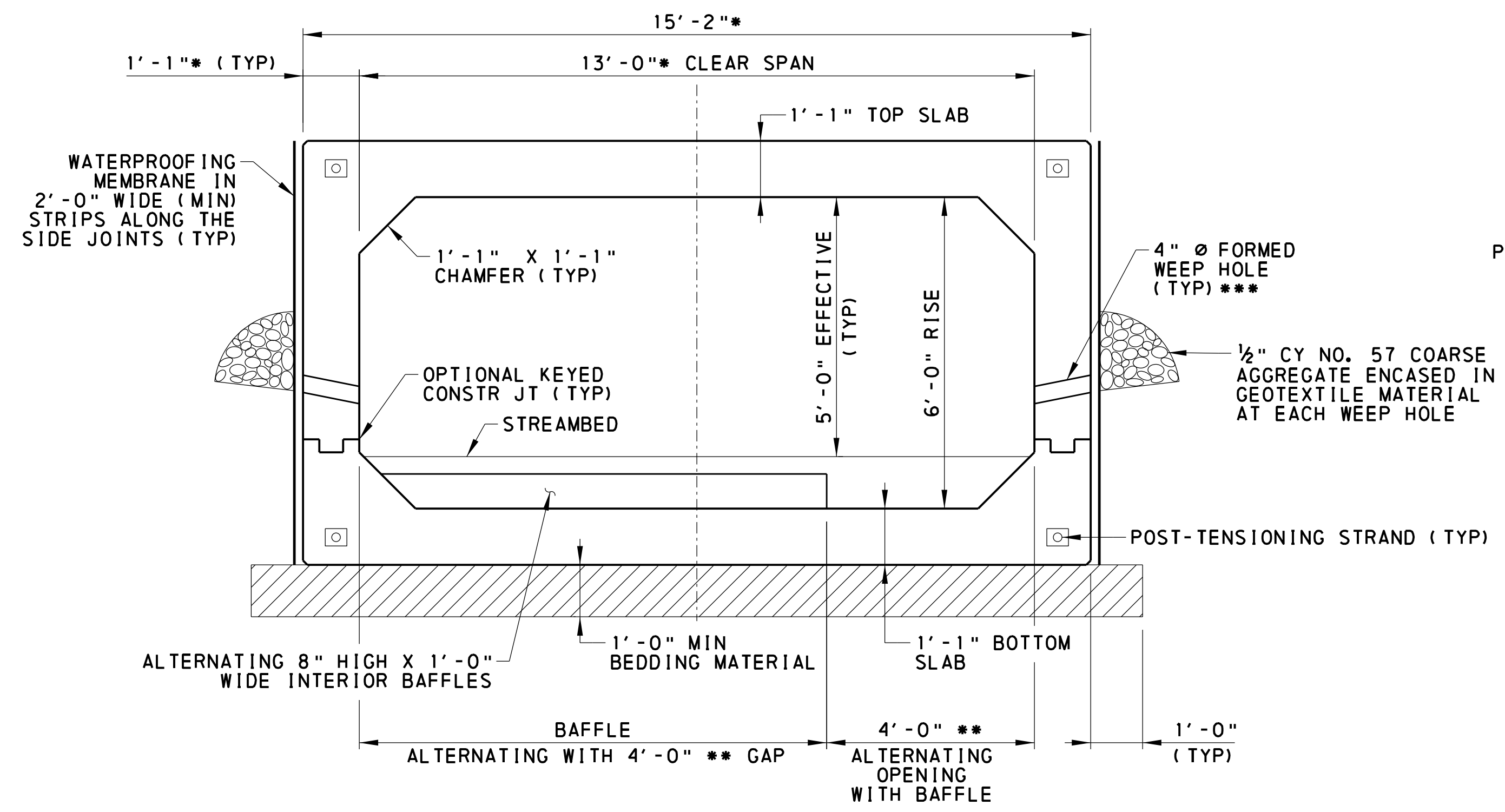


LONGITUDINAL SECTION

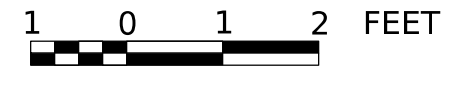


COMPACTED FILL DETAIL

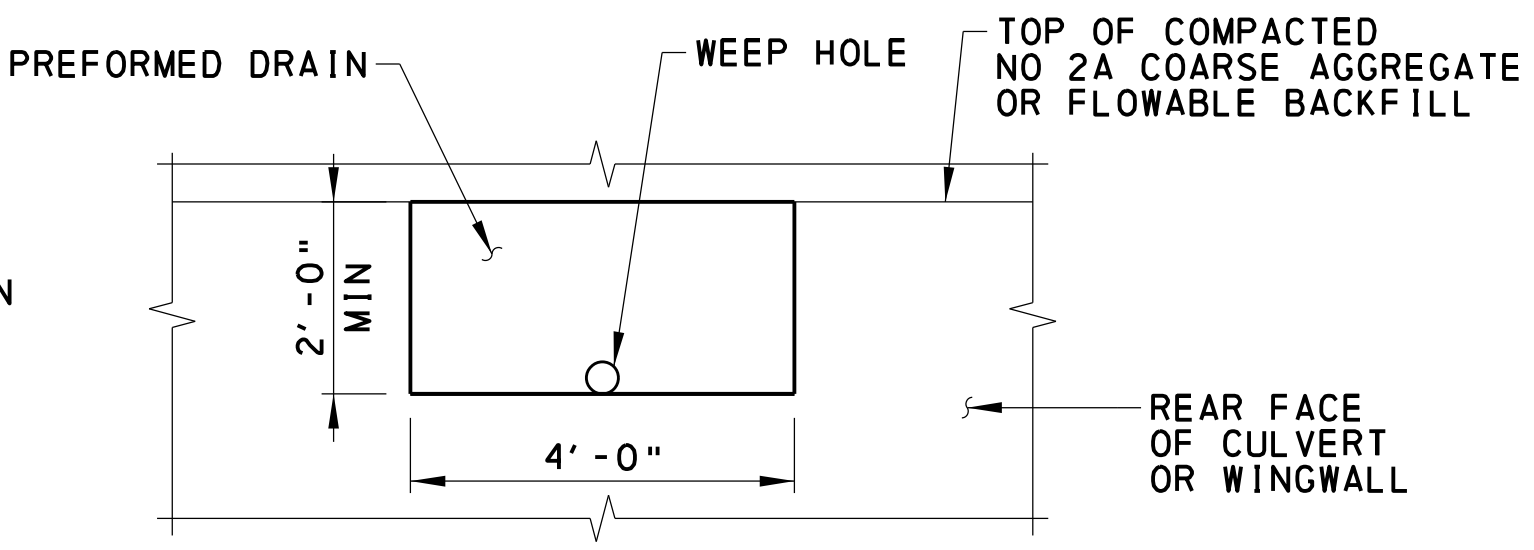
NOT TO SCALE



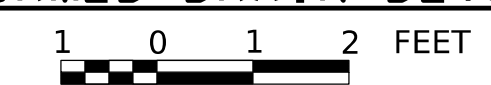
TYPICAL SECTION



\* DIMENSION NORMAL TO OPENING  
 \*\* DIMENSION MEASURED ALONG SKEW  
 \*\*\* USE 4\"/>

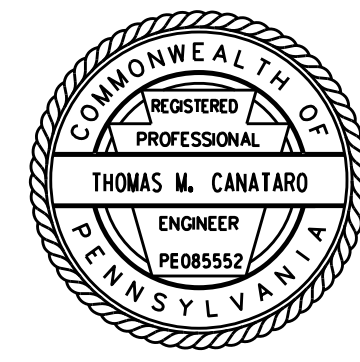


PREFORMED DRAIN DETAIL



TOP OF DECK ELEVATIONS				
STATION	PT ①	PT ②	PT ③	REMARKS
101+69.54	249.15	-	-	BEGIN LT BARRIER
101+70.00	249.15	-	-	
101+74.38	249.13	249.33	-	BEGIN CULVERT ALONG BL
101+77.90	249.11	249.32	-	LT BARRIER AT CL CULVERT
101+79.23	249.10	249.31	249.10	BEGIN RT BARRIER
101+80.00	249.10	249.31	249.10	
101+82.75	249.08	249.29	249.08	CL CULVERT ALONG BL
101+86.27	249.07	249.27	249.07	END LT BARRIER
101+87.60	-	249.27	249.06	RT BARRIER AT CL CULVERT
101+90.00	-	249.25	249.05	
101+91.12	-	-	249.04	END CULVERT ALONG BL
101+95.96	-	-	249.02	END RT BARRIER

NOTES:  
 • FOR GENERAL NOTES, SEE SHEET 2  
 • WORK THIS SHEET WITH SHEETS 5 TO 10.



NO.	DATE	REVISION

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 600 Eagleview Boulevard  
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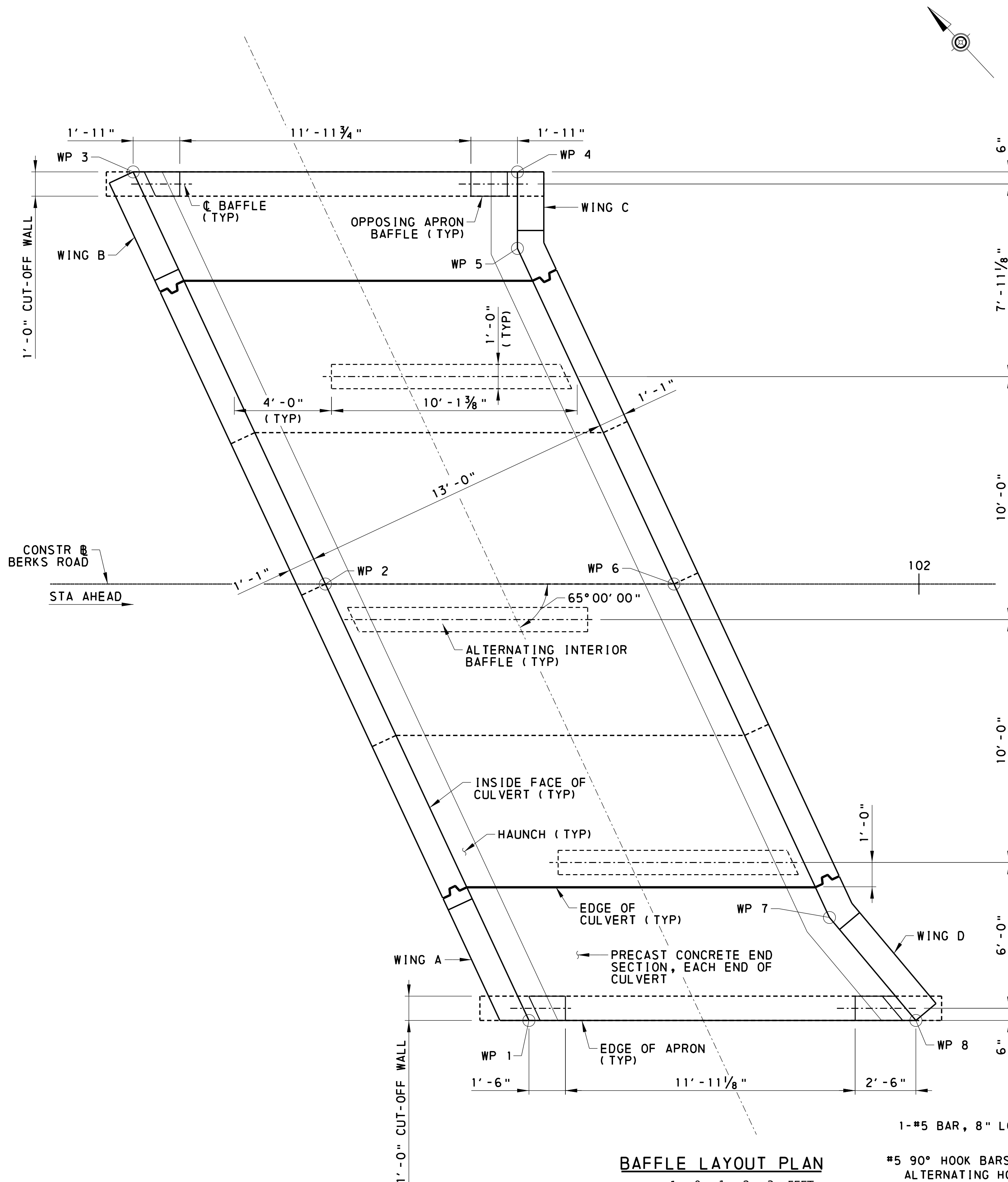
**BERKS ROAD BRIDGE REPLACEMENT PROJECT**  
 BERKS ROAD OVER TRIBUTARY TO PLUM CREEK  
 BERN TOWNSHIP  
 BERKS COUNTY, PENNSYLVANIA

**LONGITUDINAL & TYPICAL SECTIONS**

JOB NO.: 11169	DRWN: IRN	DATE: 10/27/2025
SCALE: AS STATED	CHKD: TMC	SHEET: 4 OF 13

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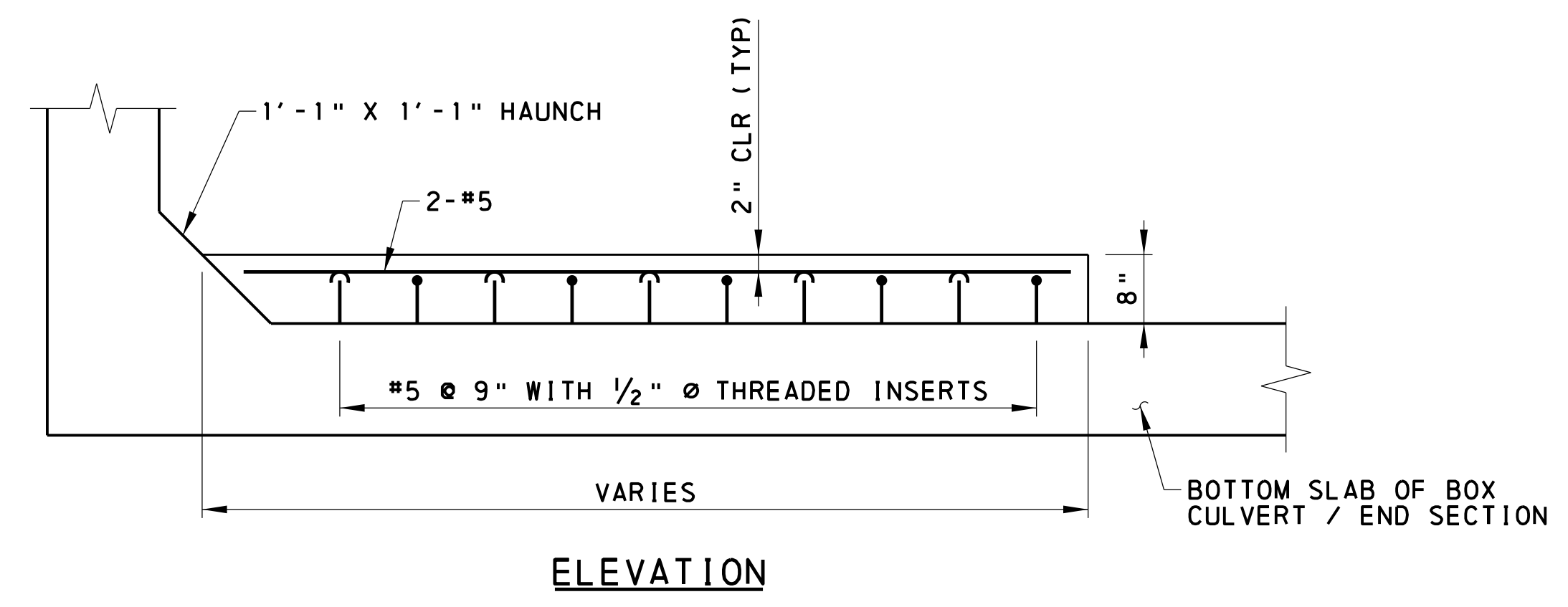
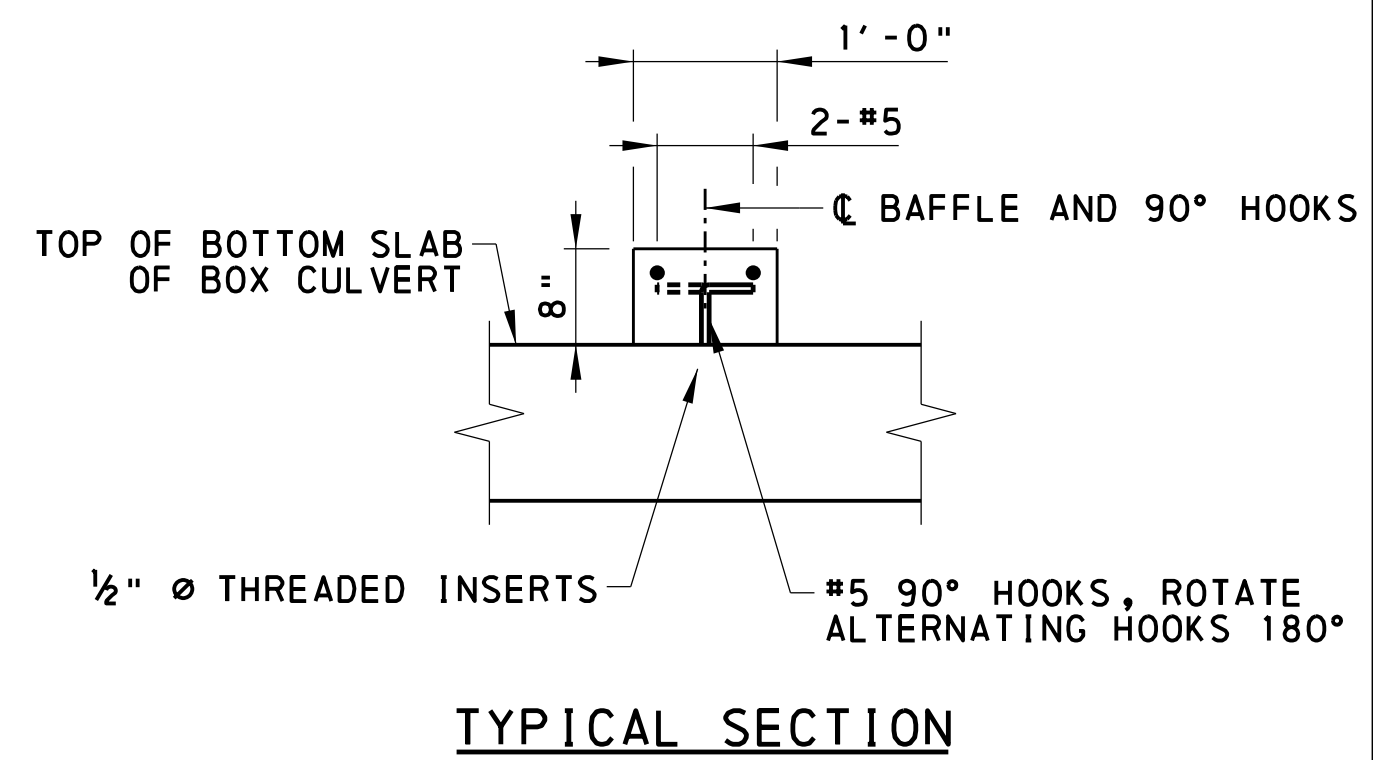
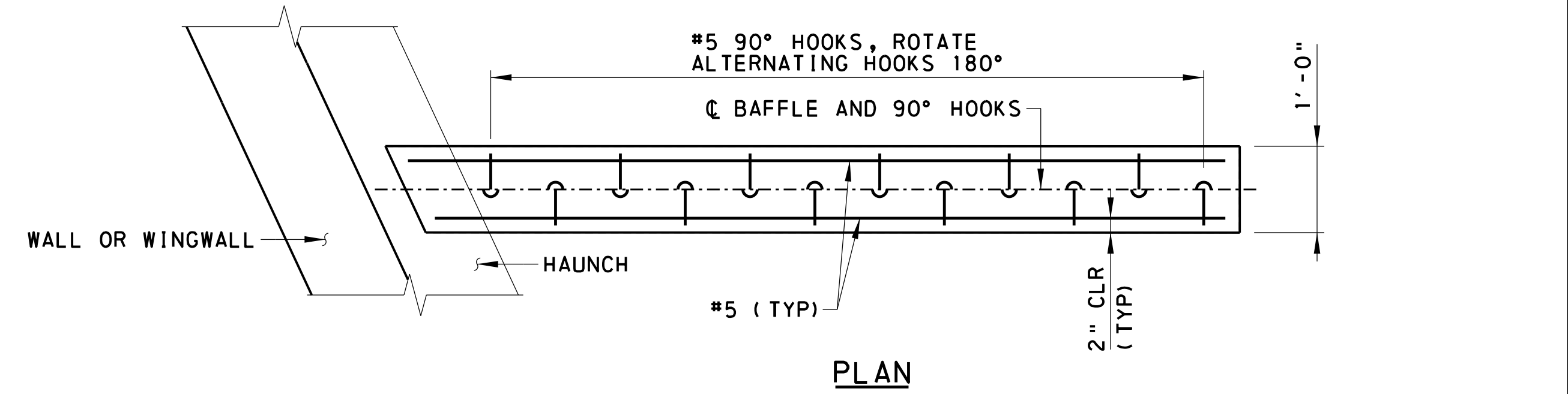
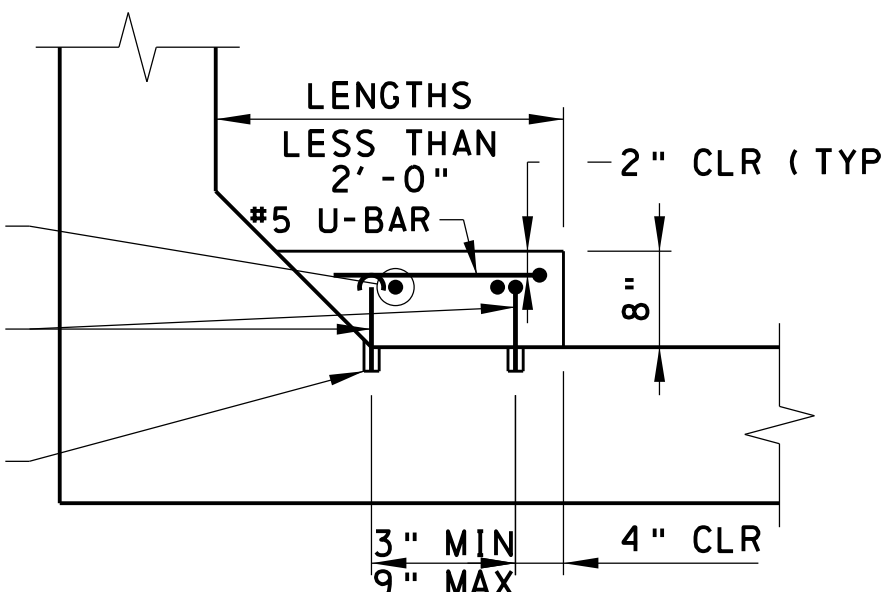
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10/27/2025



**BAFFLE LAYOUT PLAN**  
1 0 1 2 3 FEET

1-#5 BAR, 8" LONG (TYP)  
#5 90° HOOK BARS, ROTATE ALTERNATING HOOKS 180°  
1/2" Ø THREADED INSERTS

**OPPOSING BAFFLES LESS THAN 2'-0"**



**PRECAST BAFFLE DETAILS**

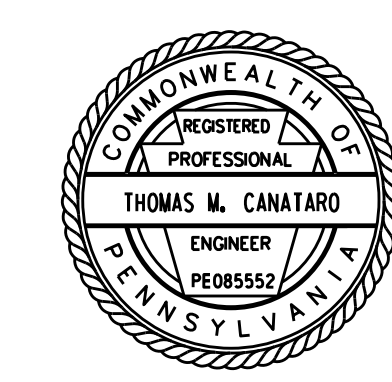
12 0 12 INCHES

- NOTES:**
- FOR GENERAL NOTES, SEE SHEET 2.
  - WORK THIS SHEET WITH SHEET 6.
  - SEE SHEETS 8 & 9 FOR PRECAST END SECTION DETAILS.

NO.	DATE	REVISION

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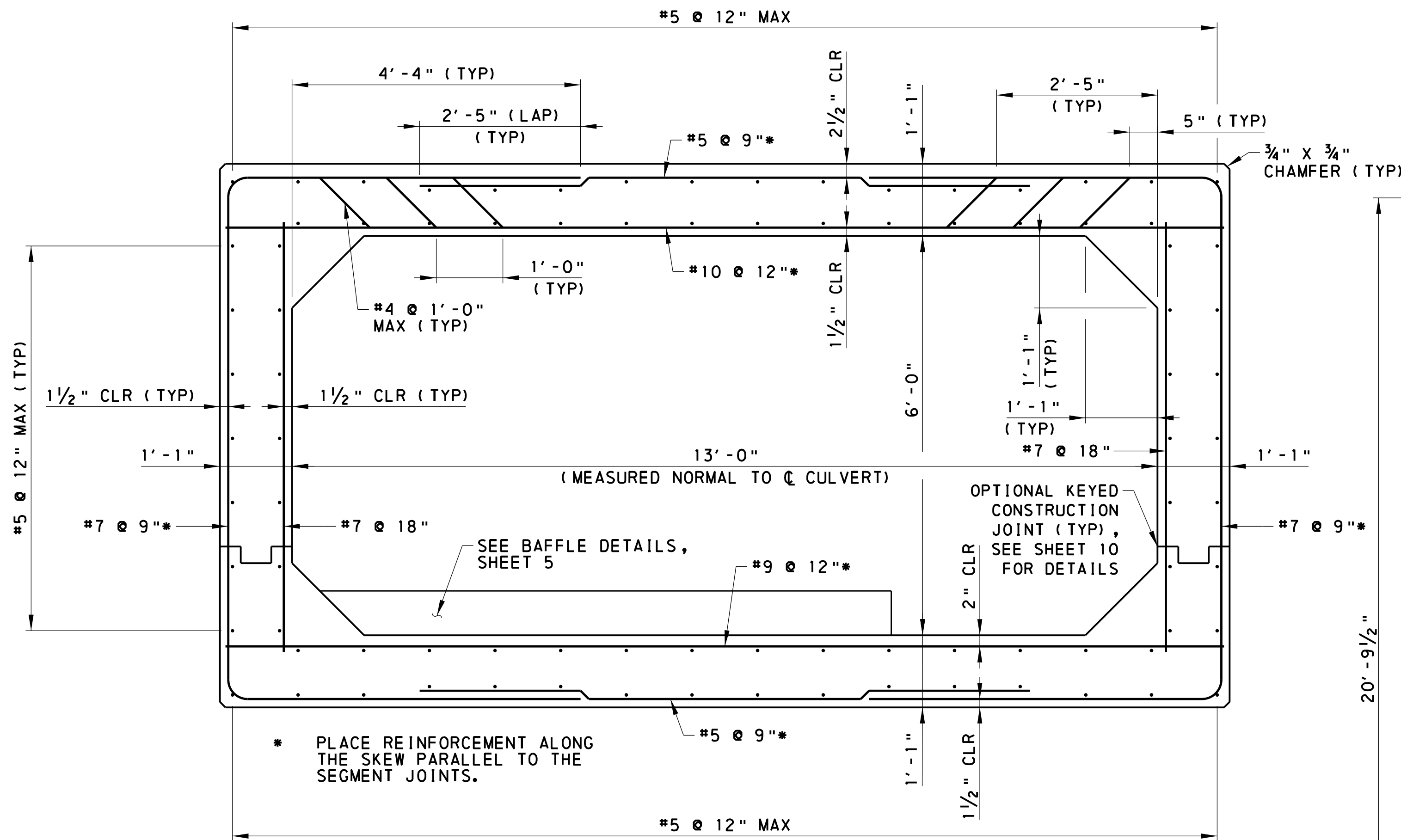


**BERKS ROAD BRIDGE REPLACEMENT PROJECT**  
BERKS ROAD OVER TRIBUTARY TO PLUM CREEK  
BERN TOWNSHIP  
BERKS COUNTY, PENNSYLVANIA

**BAFFLE PLAN & DETAILS**

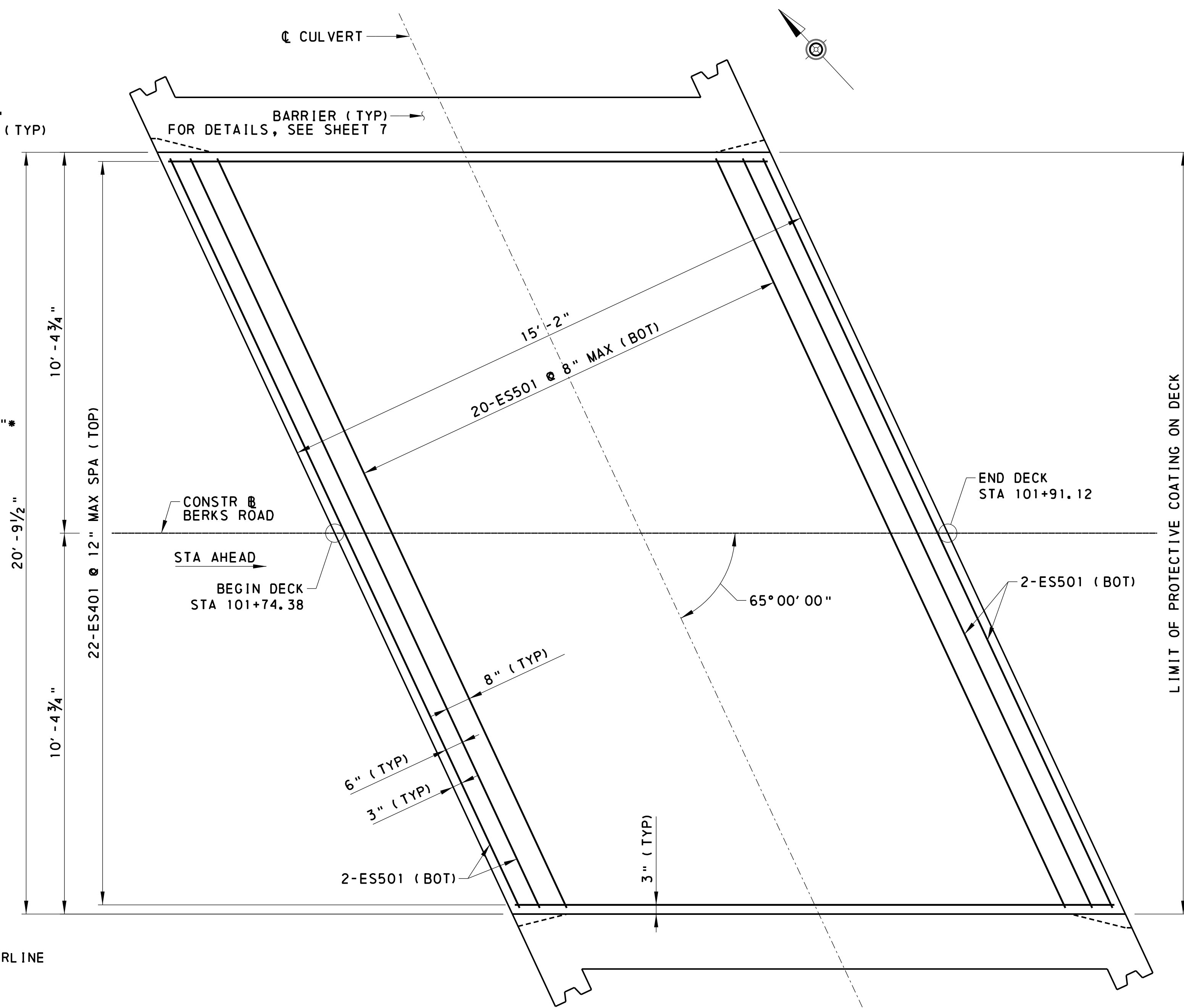
JOB NO.: 11169	DRWN: IRN	DATE: 10/27/2025
SCALE: AS STATED	CHKD: TMC	SHEET: 5 OF 13

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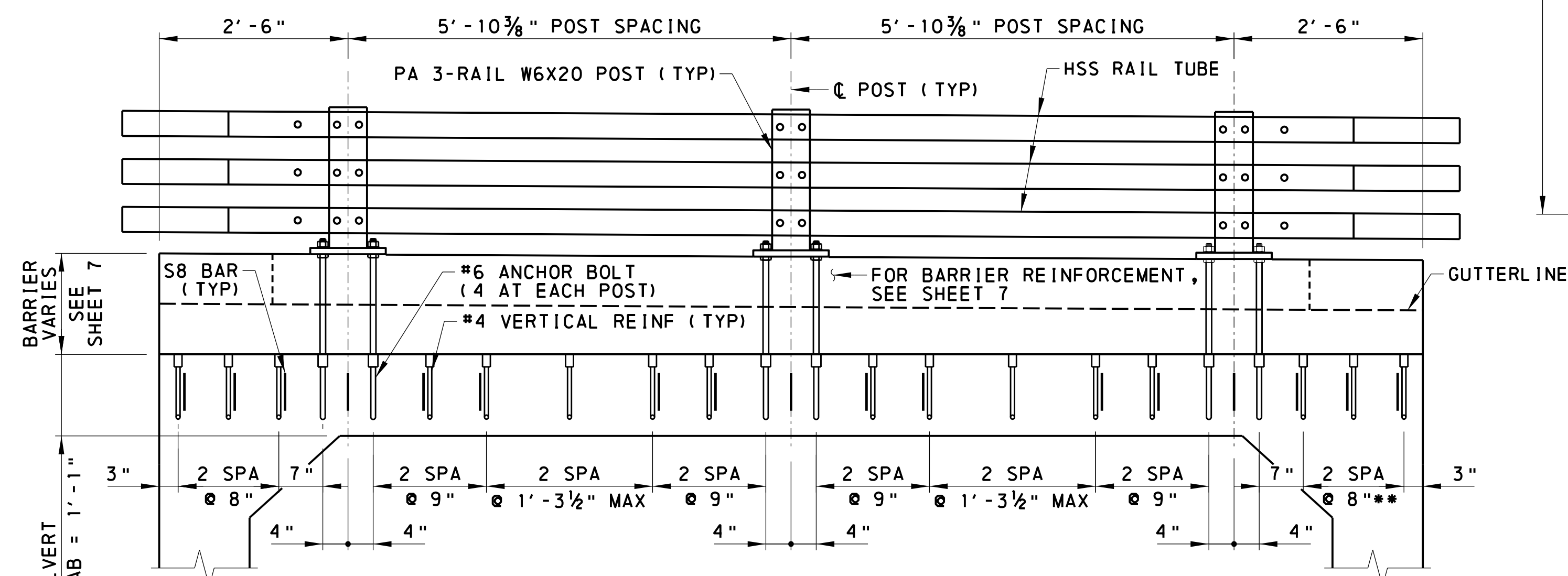
TYPICAL SECTION

12 0 12 INCHES



CIP DECK SLAB PLAN

1 0 1 2 FEET

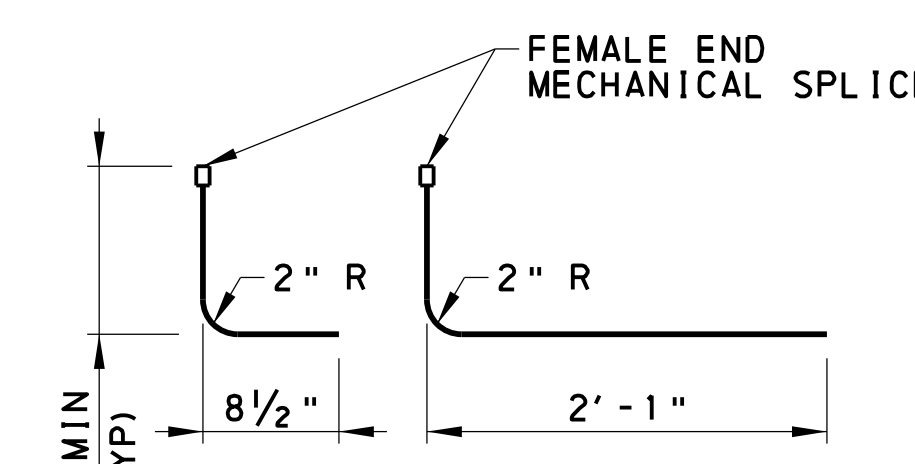


TYPICAL BARRIER REINFORCEMENT IN CULVERT TOP SLAB - ELEVATION

(TYPICAL AT EXTERIOR EDGES OF BOTH END SEGMENTS)

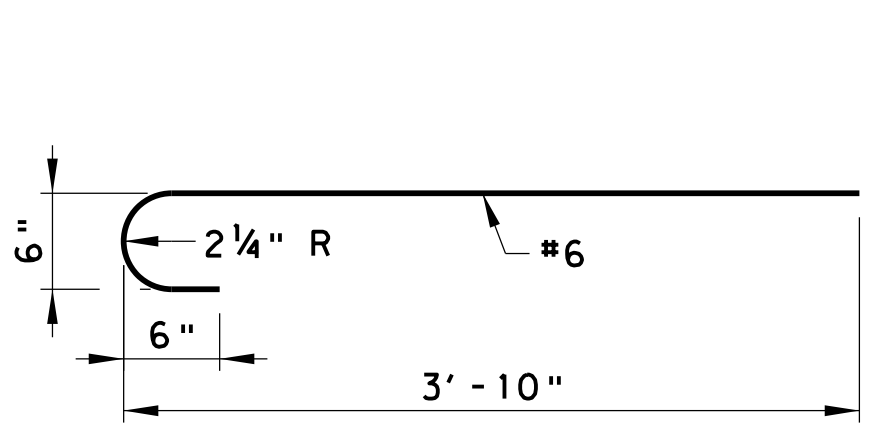
12 0 12 INCHES

\*\* ADJUST/ROTATE AS REQUIRED TO ACHIEVE PROPER CLEARANCES (SEE TYPICAL BARRIER PLAN ON SHEET 7)



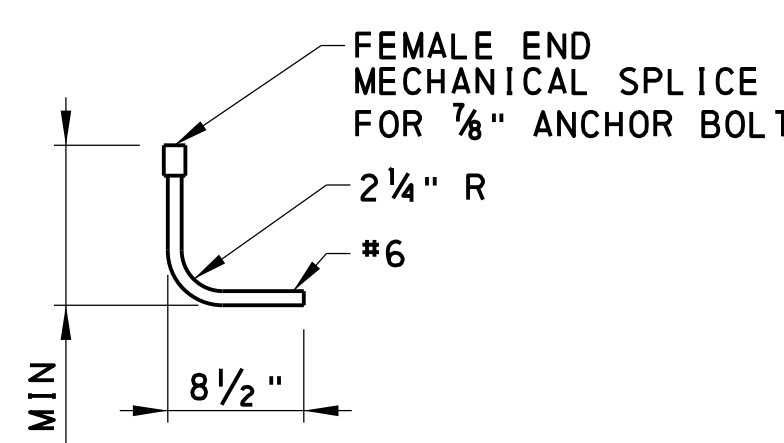
#4 VERTICAL REINFORCEMENT DETAILS

NOT TO SCALE



S8 BAR

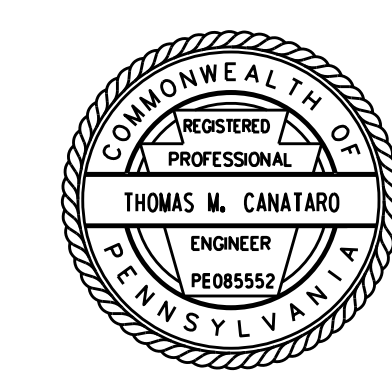
NOT TO SCALE



ANCHOR BOLT BAR DETAIL

NOT TO SCALE

- NOTES:
- FOR GENERAL NOTES, SEE SHEET 2.
  - SEE SHEET 5 FOR BAFFLE DETAILS.
  - WORK THIS SHEET WITH SHEET 7.
  - SEE SHEET 10 FOR MISCELLANEOUS DETAILS.



NO.	DATE	REVISION

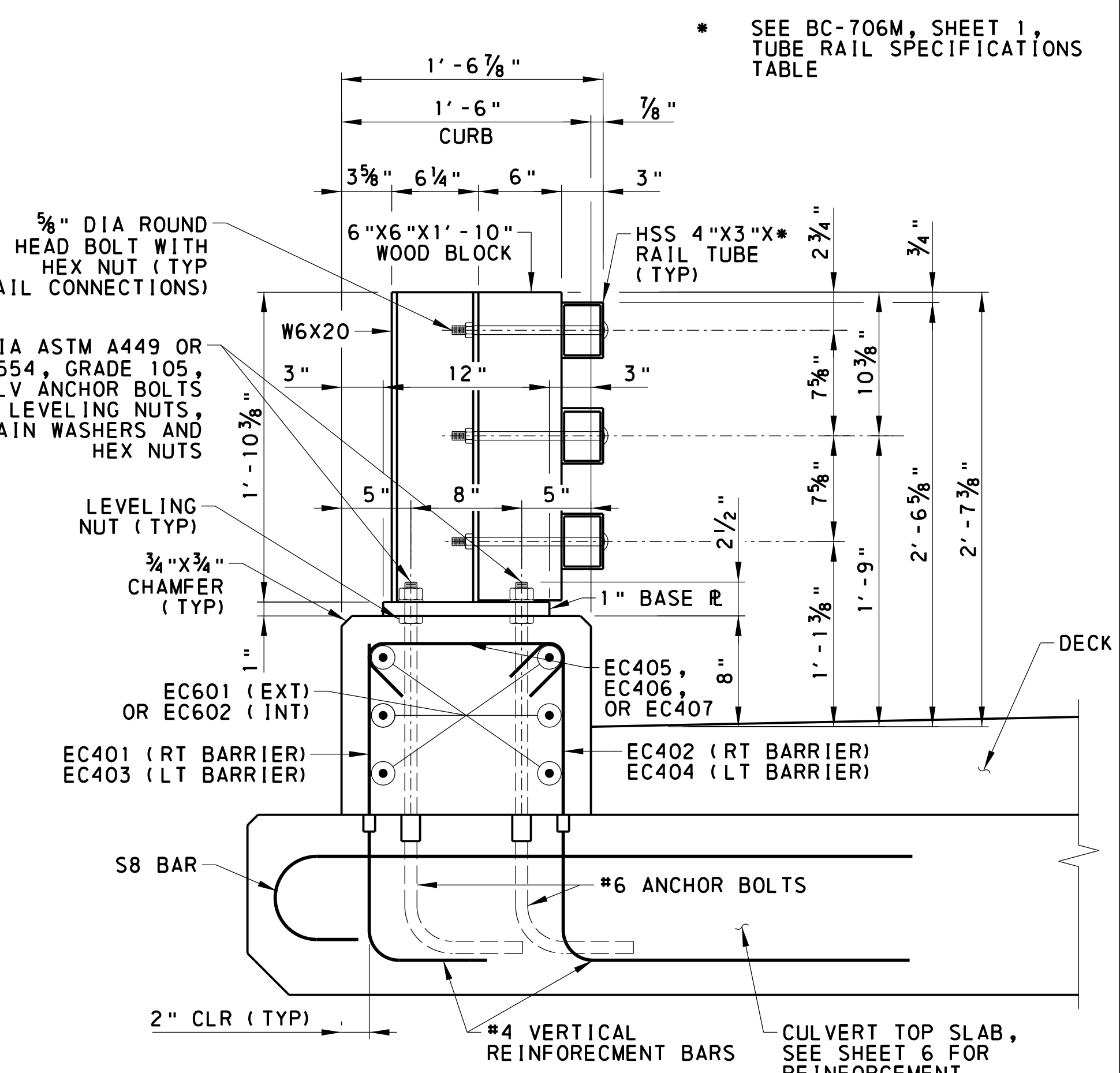
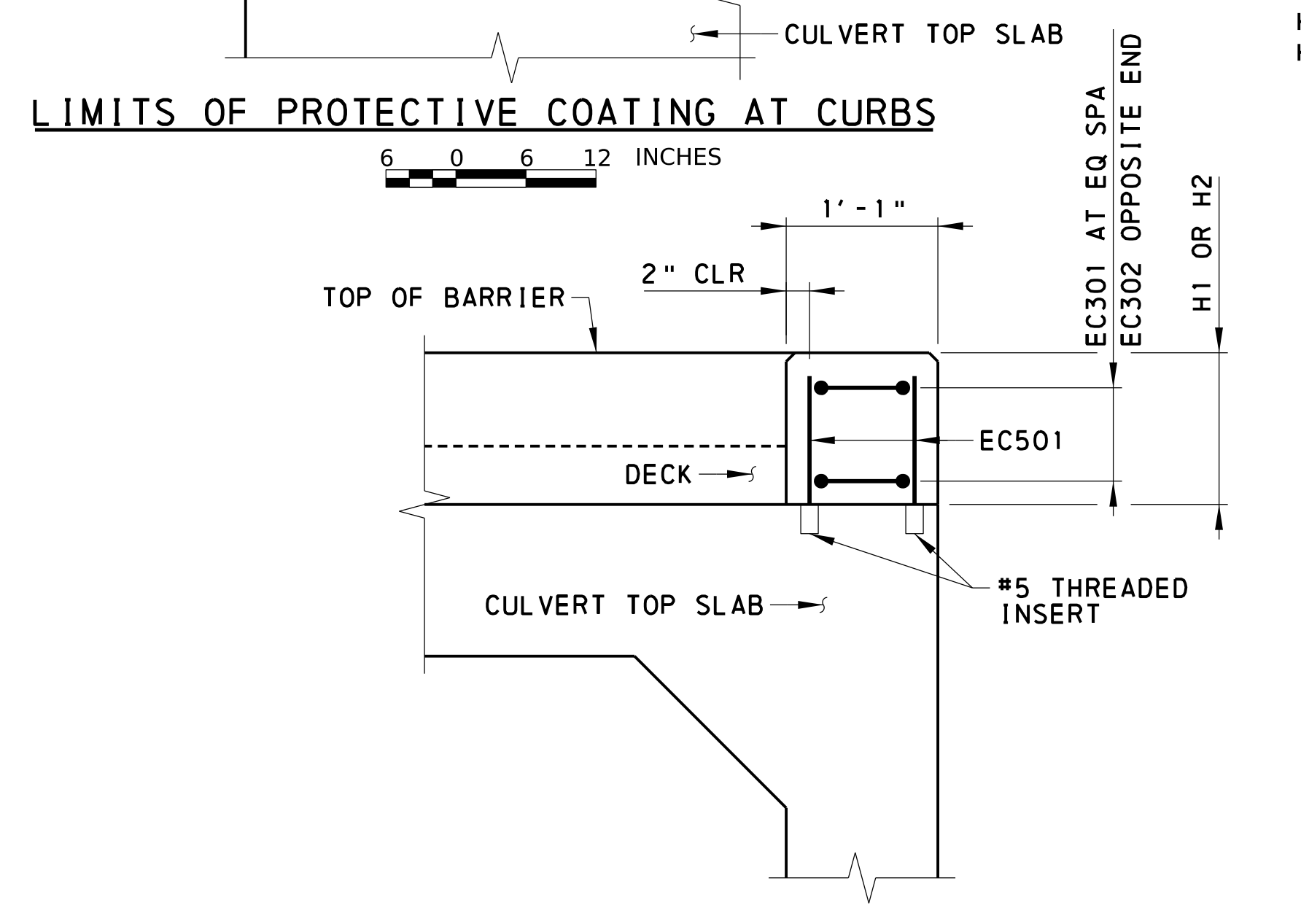
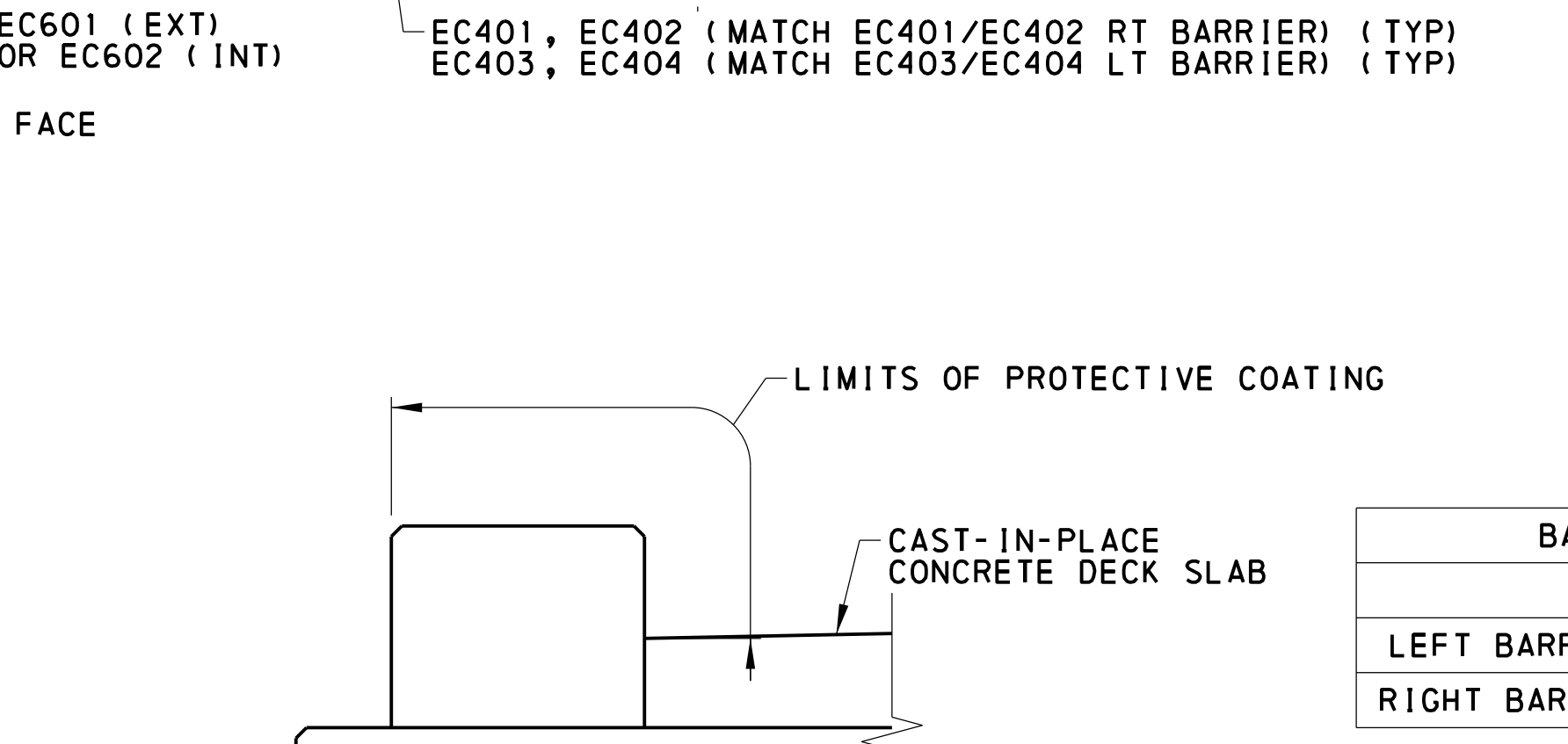
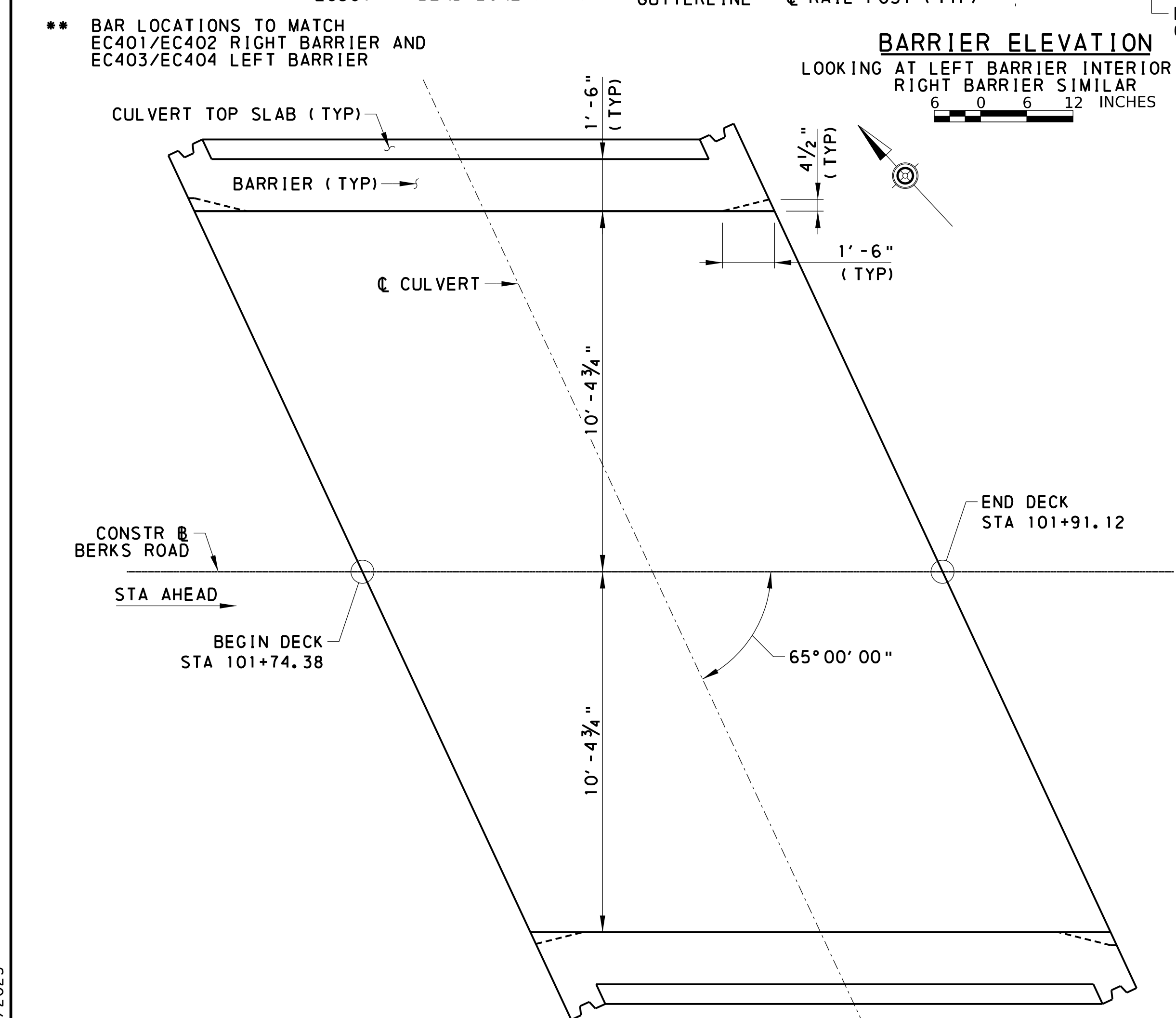
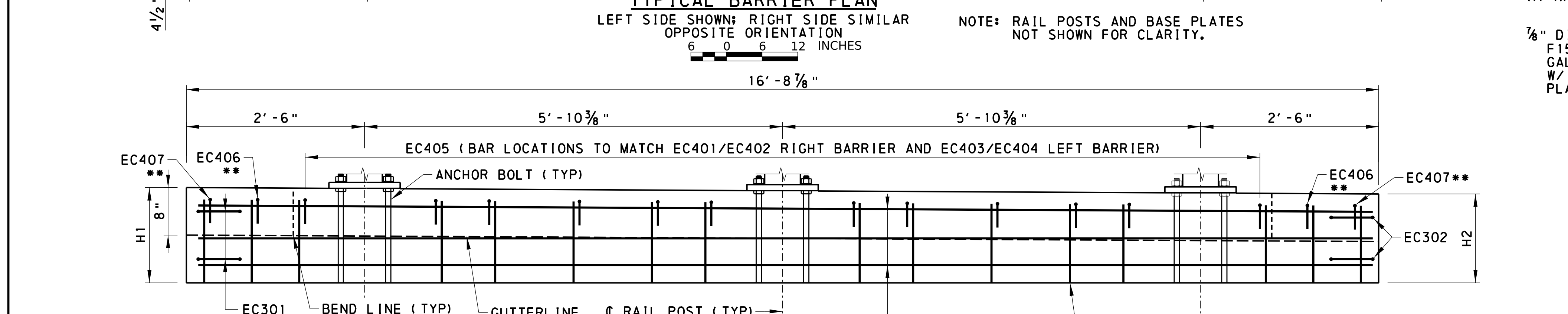
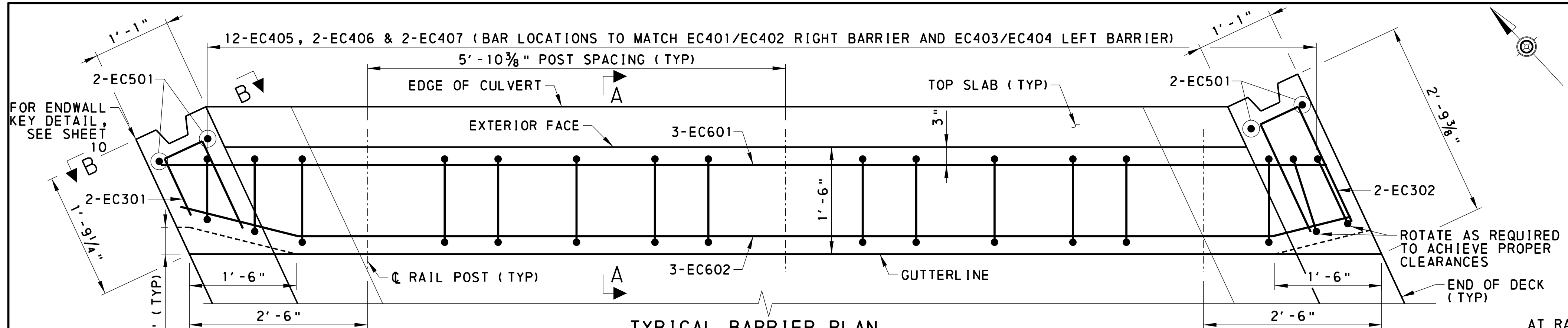
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**BERKS ROAD BRIDGE REPLACEMENT PROJECT**  
 BERKS ROAD OVER TRIBUTARY TO PLUM CREEK  
 BERN TOWNSHIP  
 BERKS COUNTY, PENNSYLVANIA

**CULVERT & DECK DETAILS**

JOB NO.: 11169	DRWN: IRN	DATE: 10/27/2025
SCALE: AS STATED	CHKD: TMC	SHEET: 6 OF 13

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10/27/2025



BARRIER HEIGHTS		
	H1 (ft)	H2 (ft)
LEFT BARRIER	1.24	1.16
RIGHT BARRIER	1.34	1.26

H1 LOCATED AT STATION BACK SIDE  
H2 LOCATED AT STATION AHEAD SIDE

- NOTES:**
- FOR GENERAL NOTES, SEE SHEET 2.
  - WORK THIS SHEET WITH SHEET 6.
  - FOR ADDITIONAL BARRIER DETAILS, SEE BC-706M.

NO.	DATE	REVISION

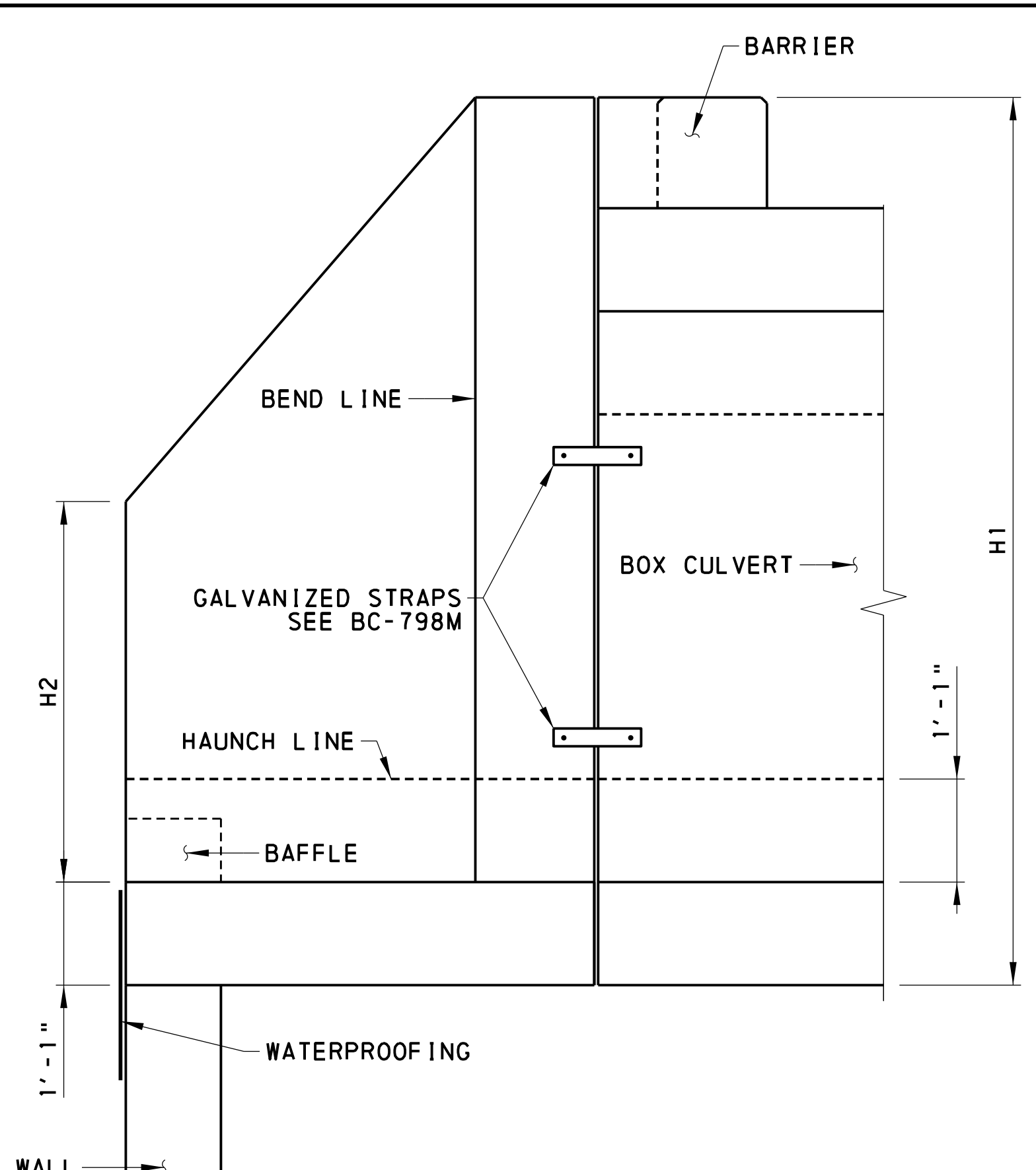
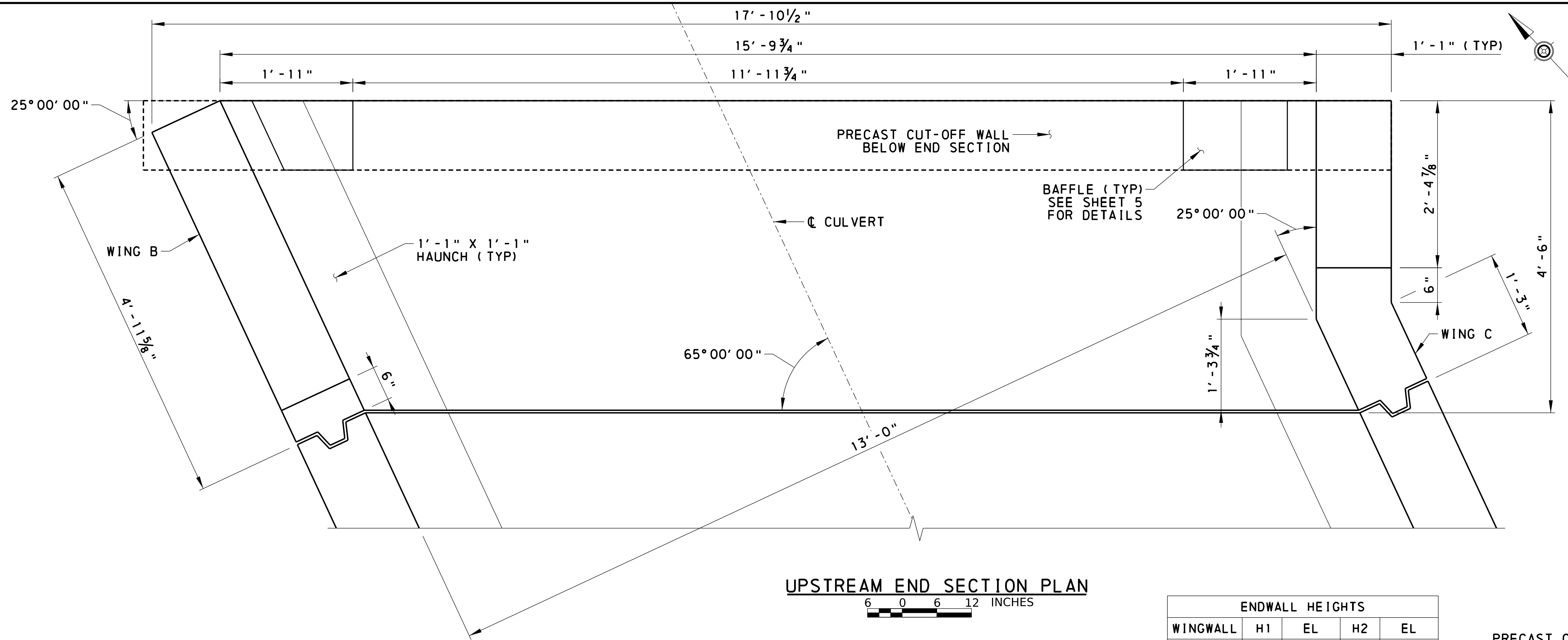
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**BERKS ROAD BRIDGE REPLACEMENT PROJECT**  
BERKS ROAD OVER TRIBUTARY TO PLUM CREEK  
BERN TOWNSHIP  
BERKS COUNTY, PENNSYLVANIA

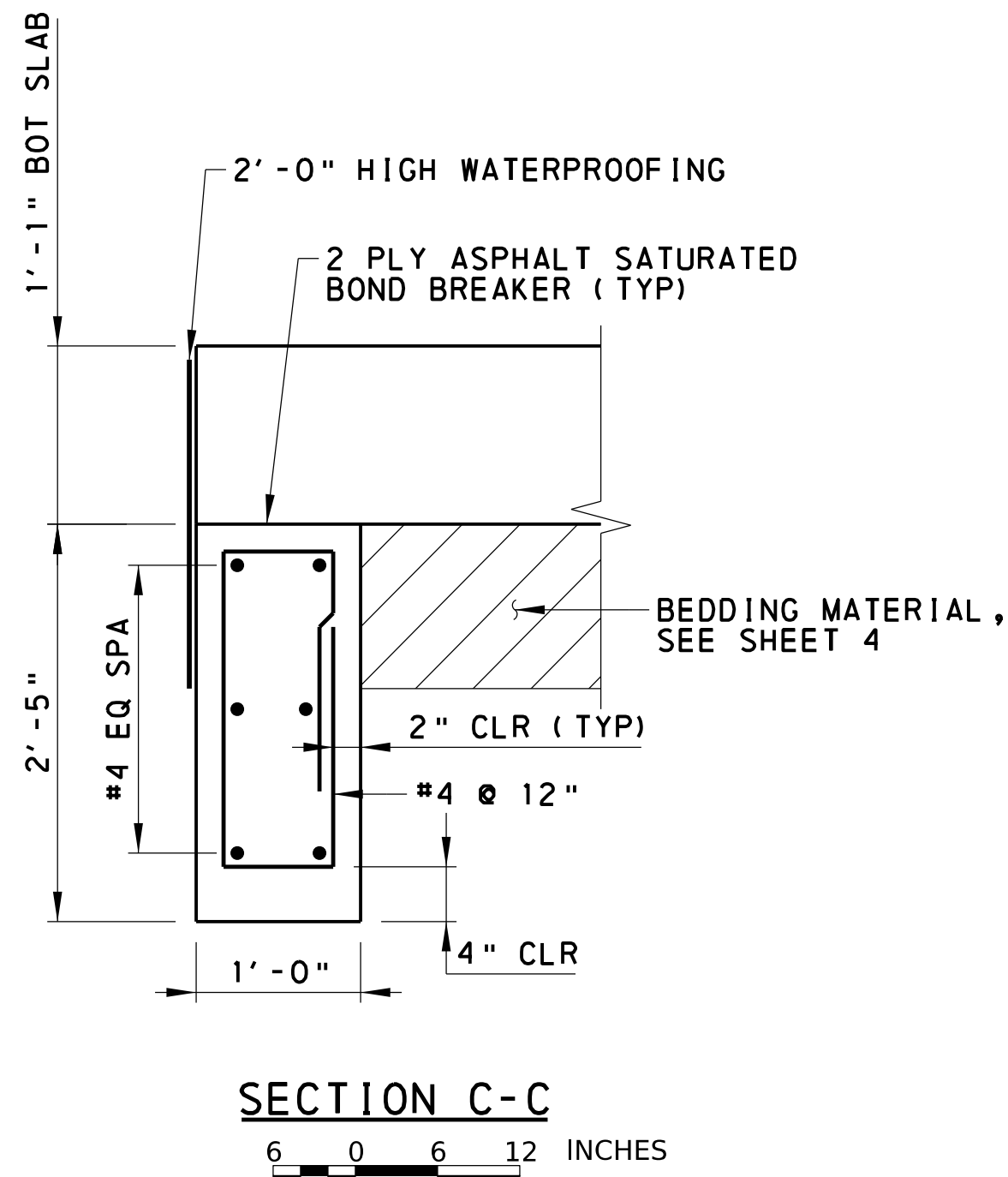
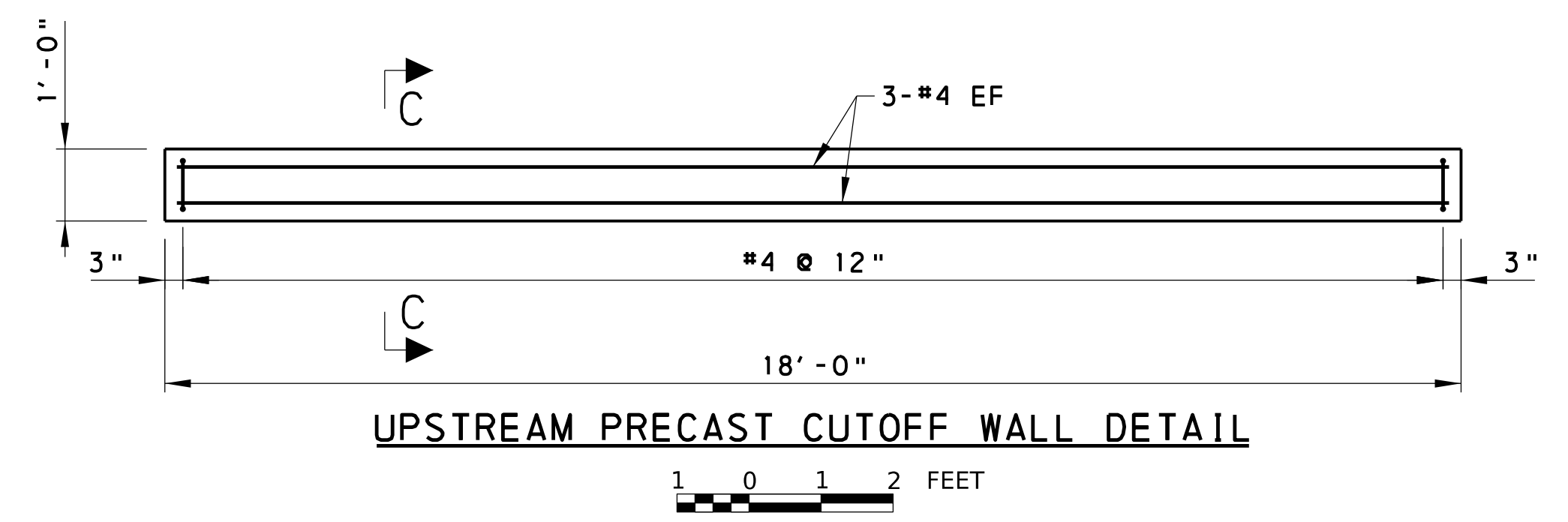
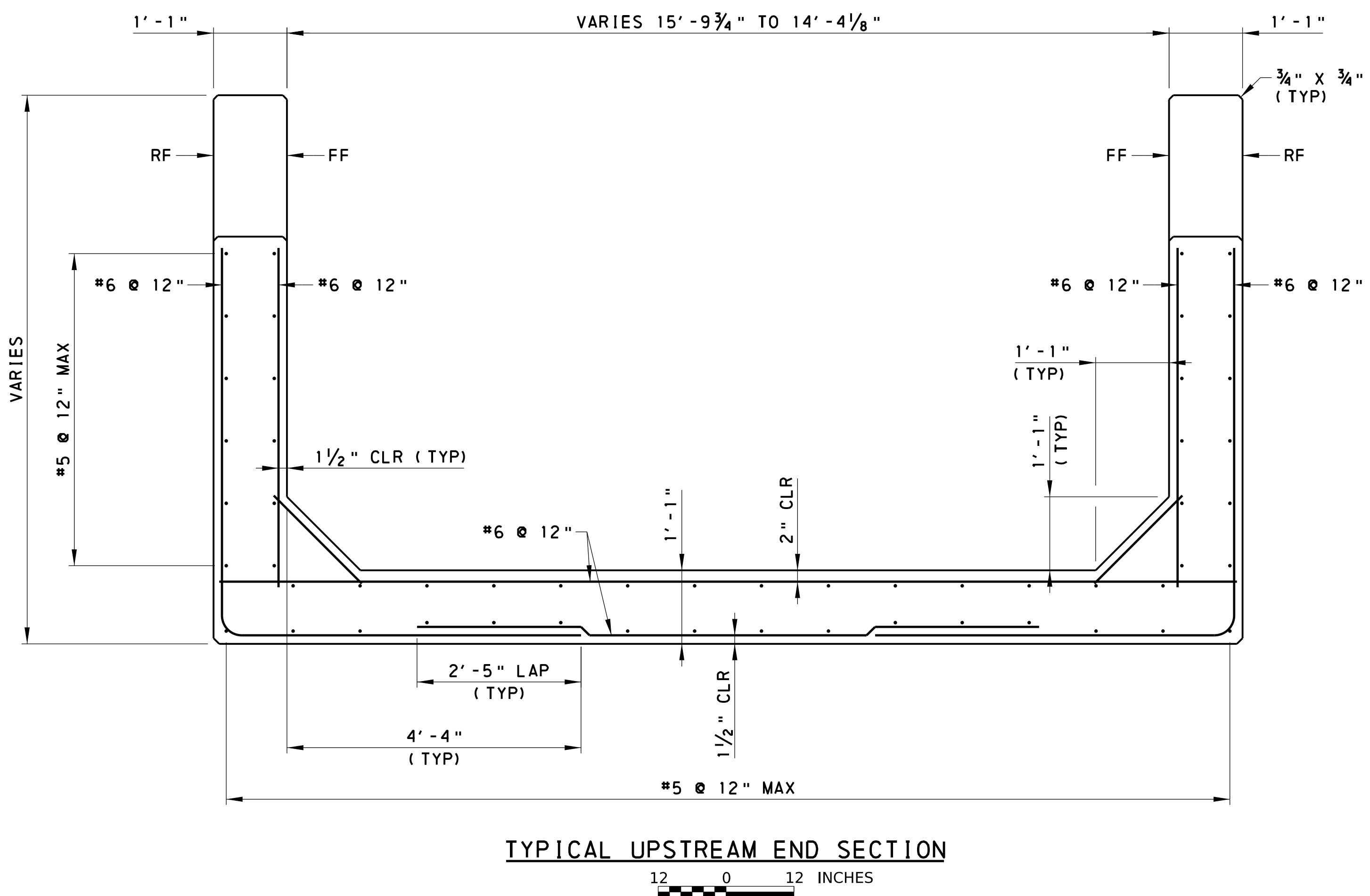
**BARRIER DETAILS**

JOB NO.: 11169    DRWN: IRN    DATE: 10/27/2025  
SCALE: AS STATED    CHKD: TMC    SHEET: 7 OF 13





ENDWALL HEIGHTS				
WINGWALL	H1	EL	H2	EL
B	8.33	249.82	5.48	247.00
C	8.24	249.73	2.98	244.50



- NOTES:
- FOR GENERAL NOTES, SEE SHEET 2.
  - SEE SHEET 5 FOR BAFFLE DETAILS.
  - SEE SHEET 10 FOR MISCELLANEOUS DETAILS.

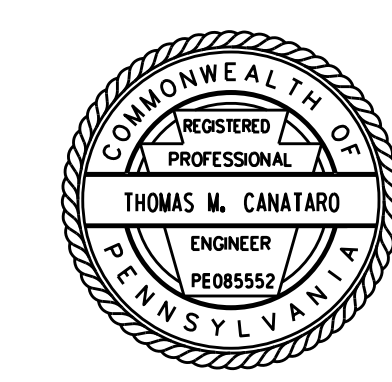
NO.	DATE	REVISION

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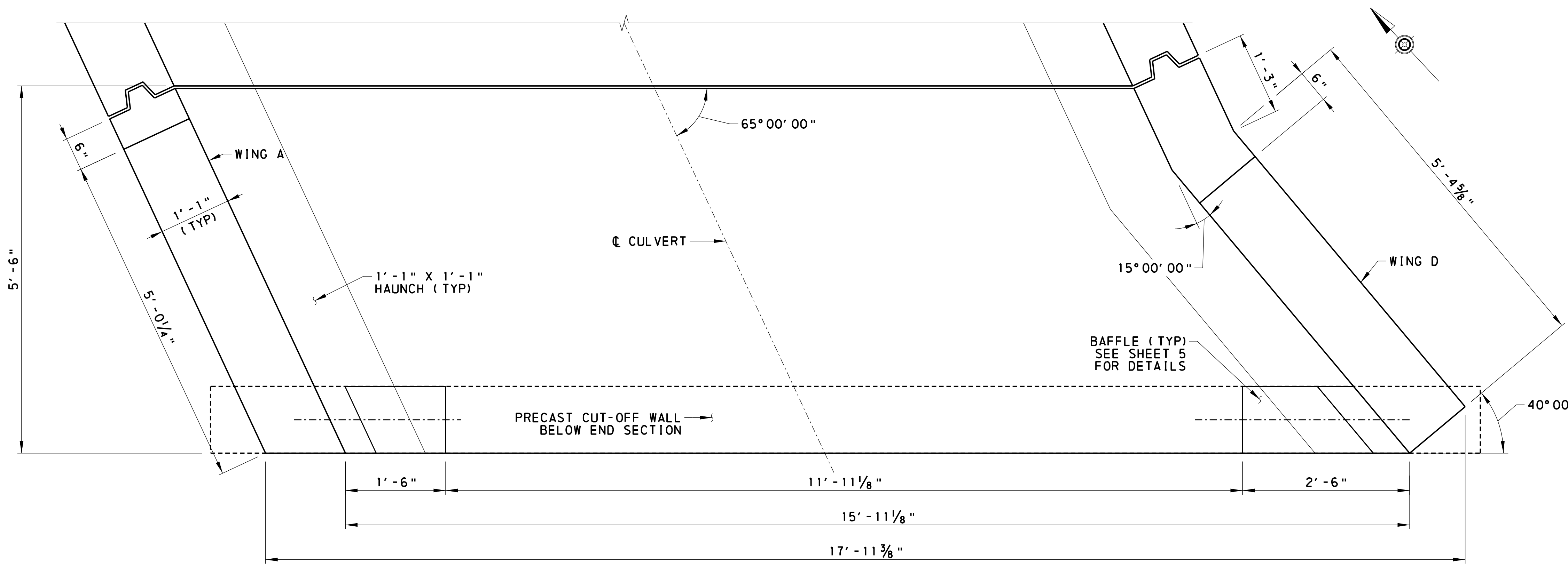
**BERKS ROAD BRIDGE REPLACEMENT PROJECT**  
BERKS ROAD OVER TRIBUTARY TO PLUM CREEK  
BERN TOWNSHIP  
BERKS COUNTY, PENNSYLVANIA

**UPSTREAM PRECAST END SECTION**

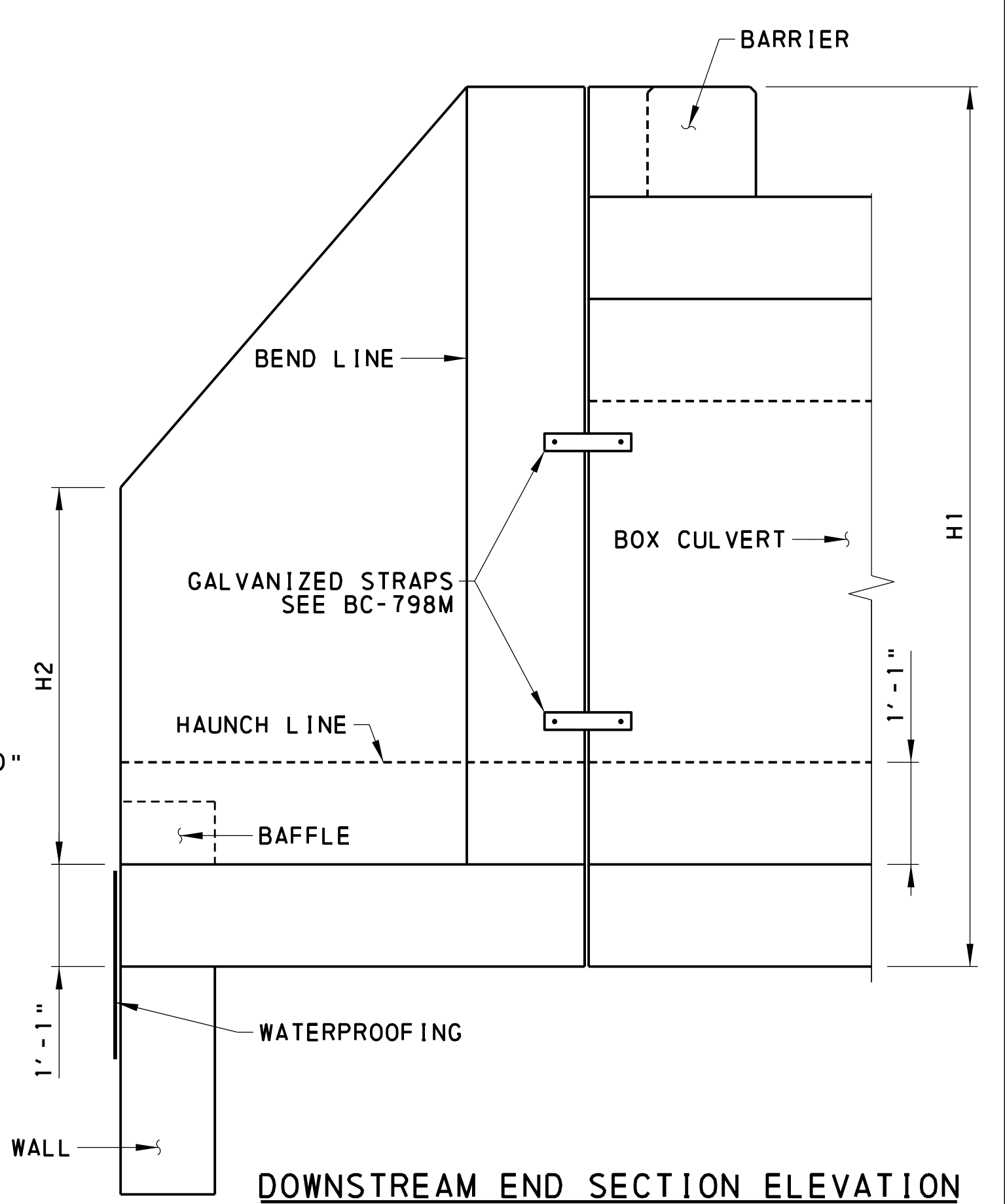
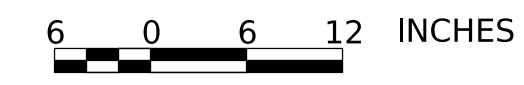
JOB NO.: 11169    DRWN: IRN    DATE: 10/27/2025  
SCALE: AS STATED    CHKD: TMC    SHEET: 8 OF 13



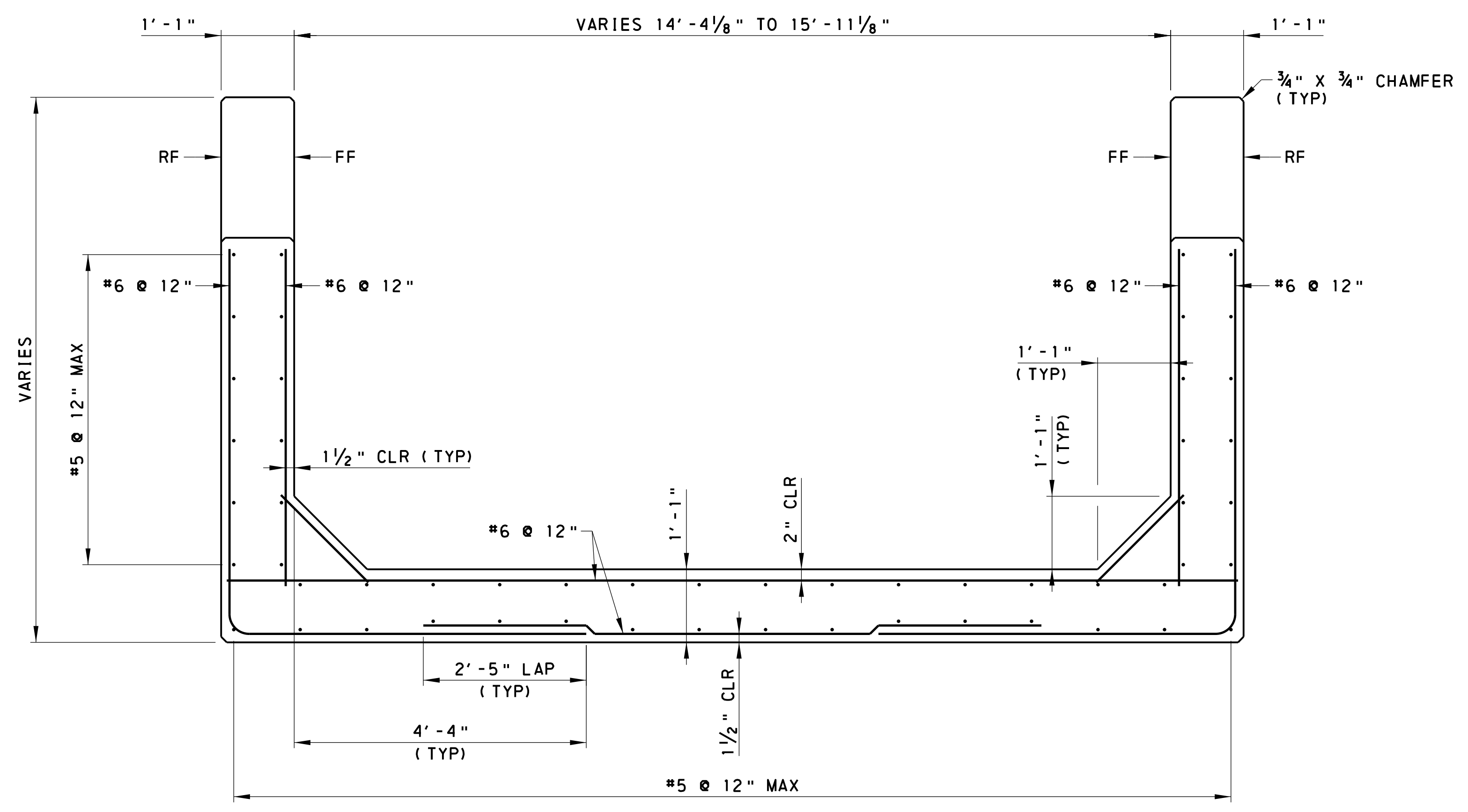
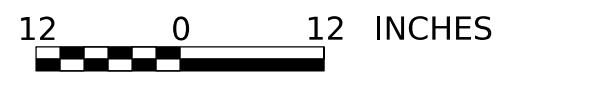
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10/27/2025



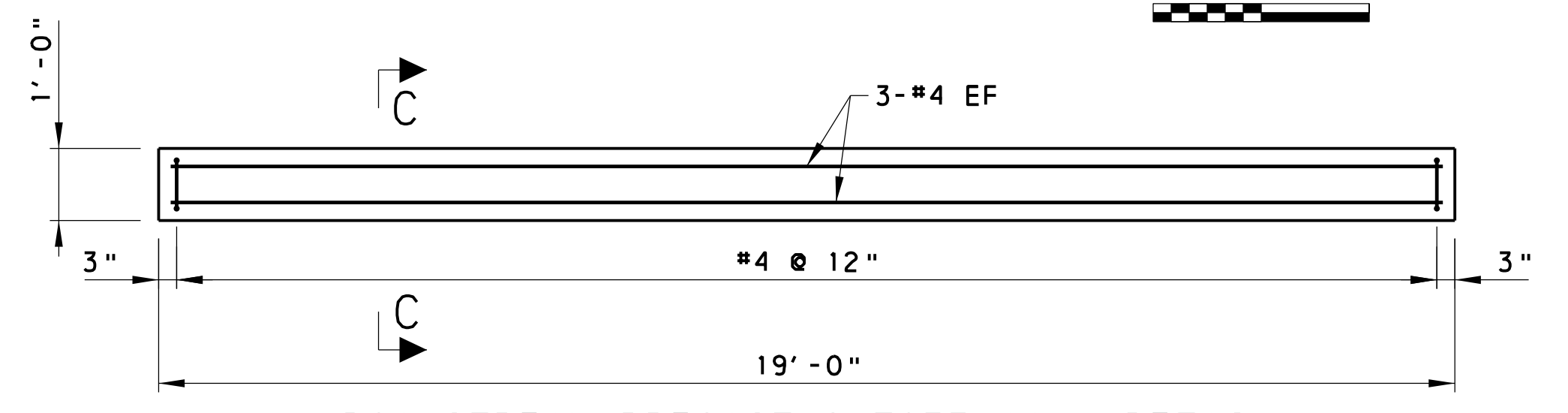
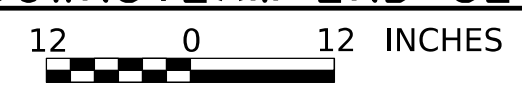
**DOWNSTREAM END SECTION PLAN**



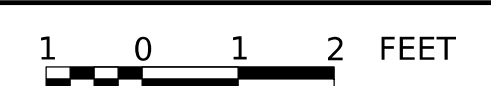
**DOWNSTREAM END SECTION ELEVATION**



**TYPICAL DOWNSTREAM END SECTION**



**DOWNSTREAM PRECAST CUTOFF WALL DETAIL**



ENDWALL HEIGHTS				
WINGWALL	H1	EL	H2	EL
A	8.43	249.77	5.19	246.50
D	8.34	249.68	3.69	245.00

- NOTES:**
- FOR GENERAL NOTES, SEE SHEET 2.
  - SEE SHEET 5 FOR BAFFLE DETAILS.
  - FOR SECTION C-C, SEE SHEET 8.
  - SEE SHEET 10 FOR MISCELLANEOUS DETAILS.

NO.	DATE	REVISION

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 2nd Floor  
 Exton, PA 19341  
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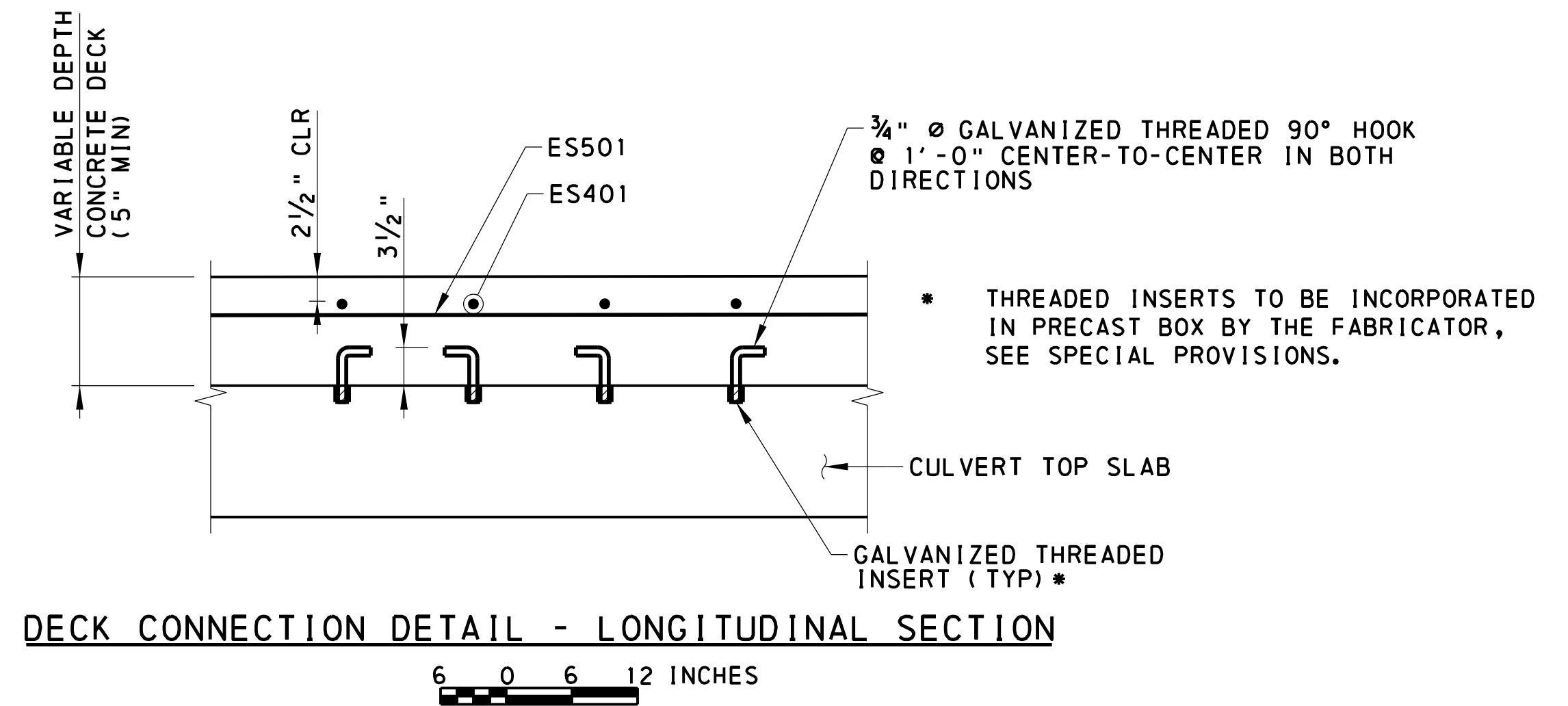
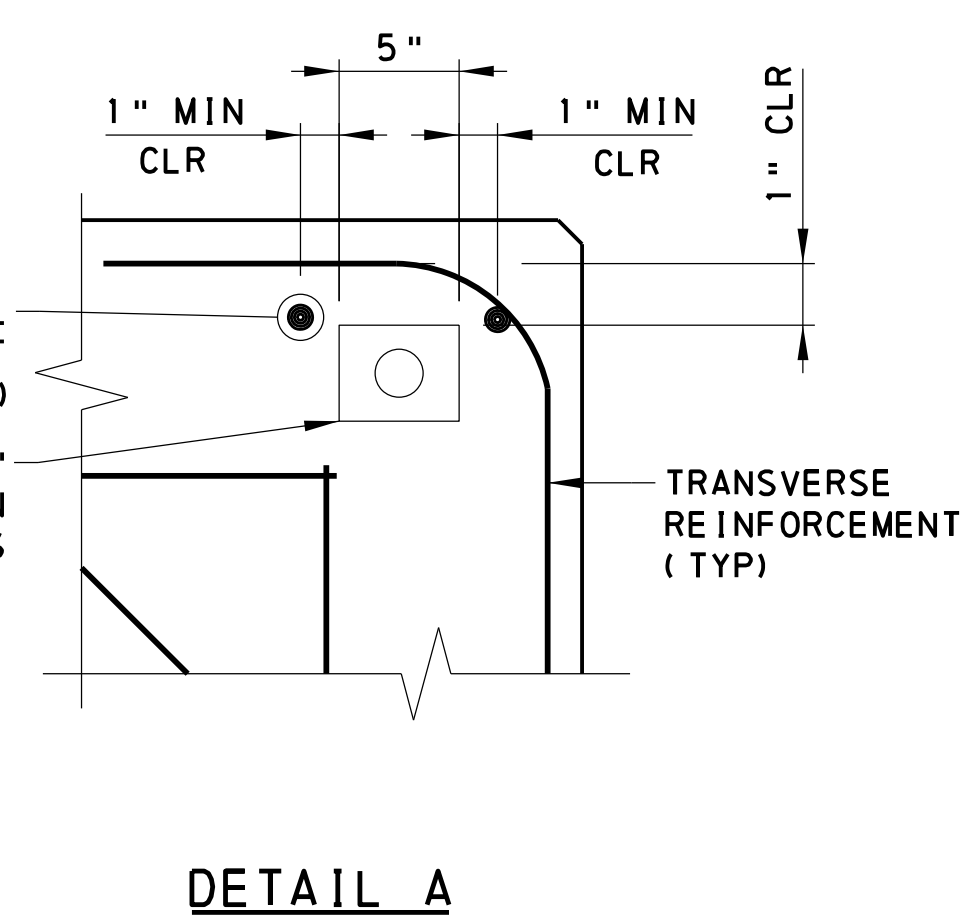
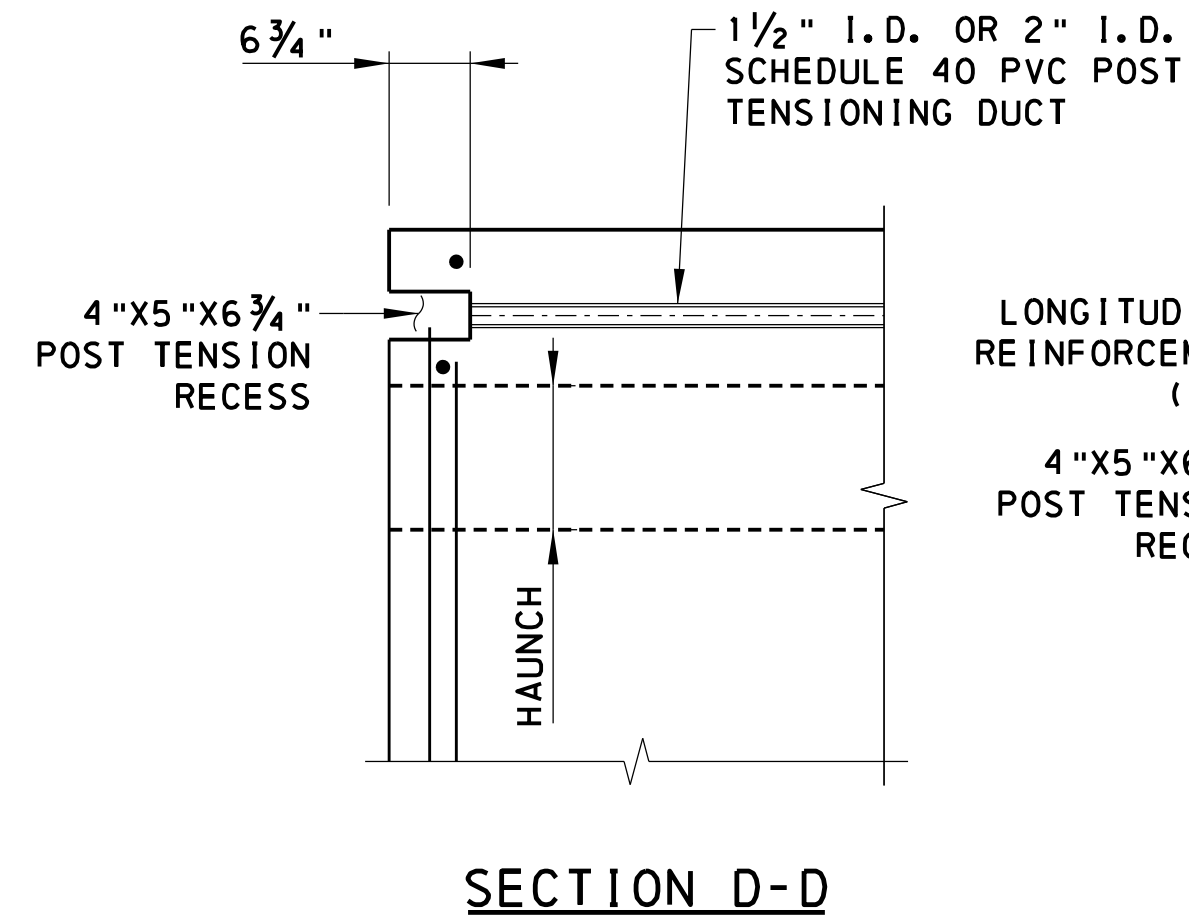
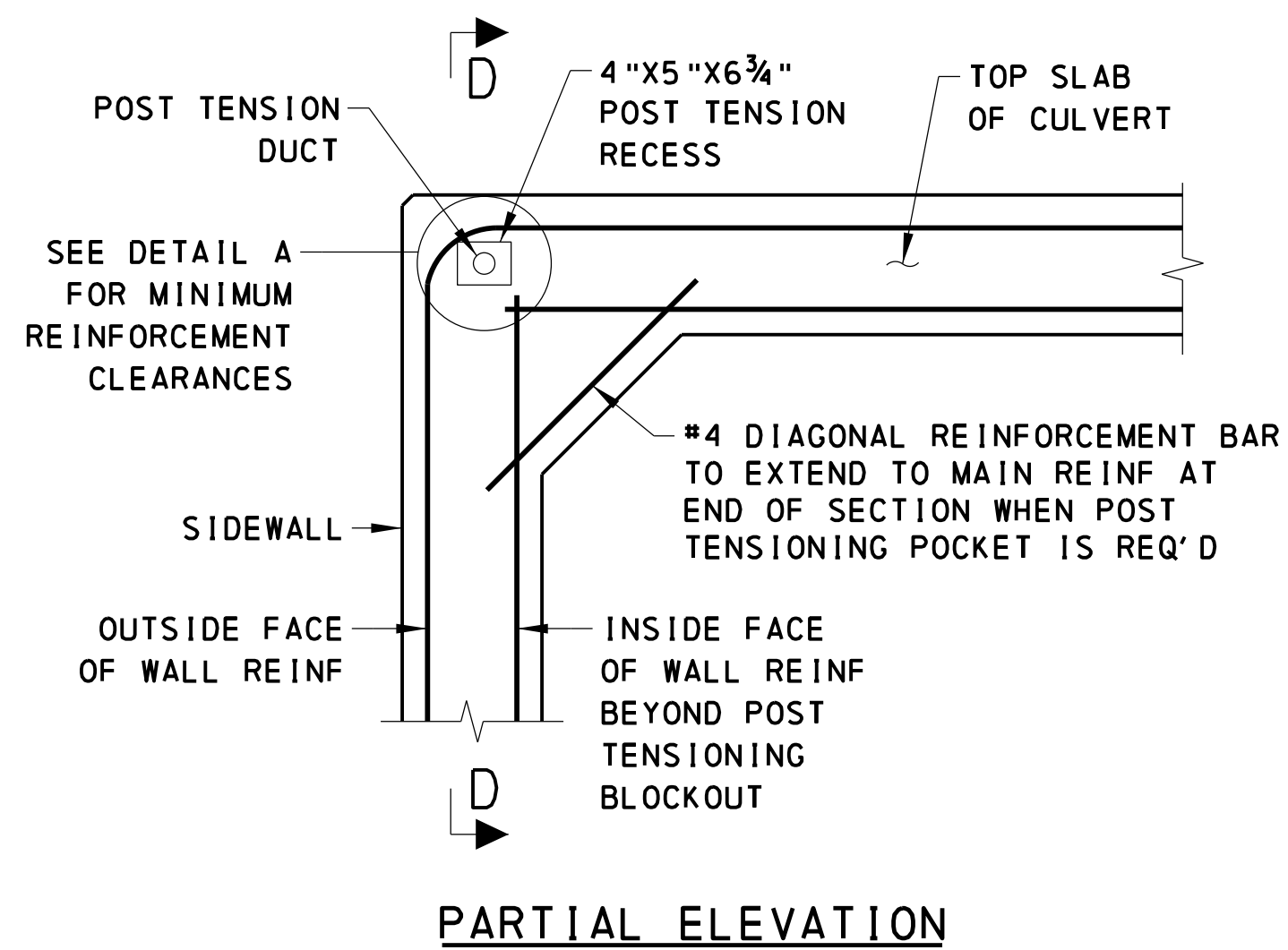
**BERKS ROAD BRIDGE REPLACEMENT PROJECT**  
 BERKS ROAD OVER TRIBUTARY TO PLUM CREEK  
 BERN TOWNSHIP  
 BERKS COUNTY, PENNSYLVANIA

**DOWNSTREAM PRECAST END SECTION**

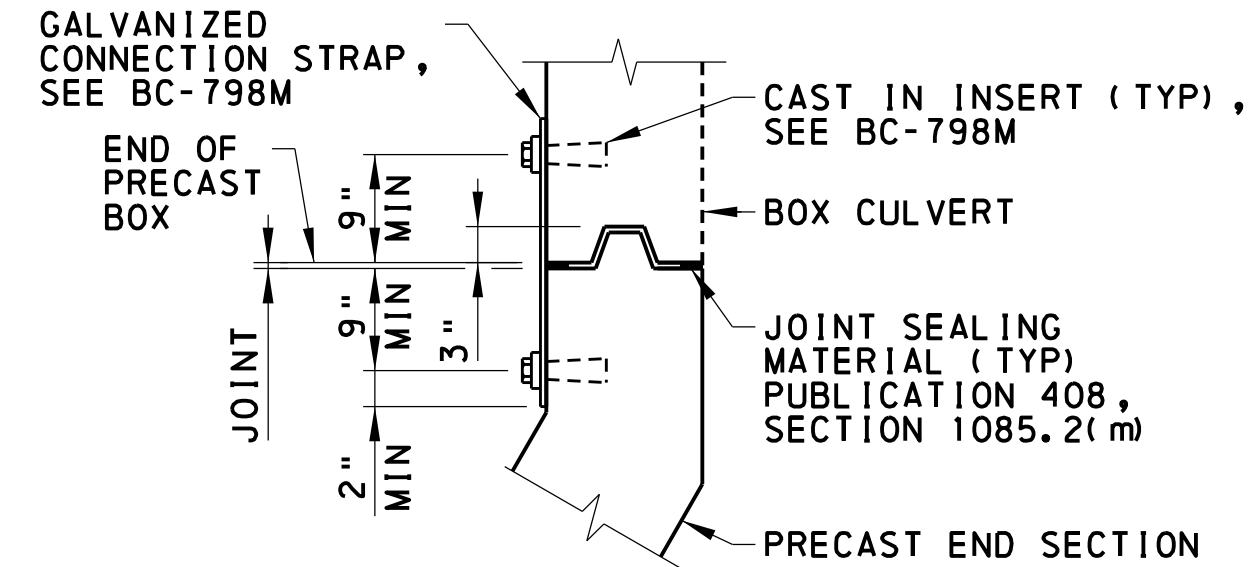
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SCALE: AS STATED	CHKD: TMC	SHEET: 9 OF 13

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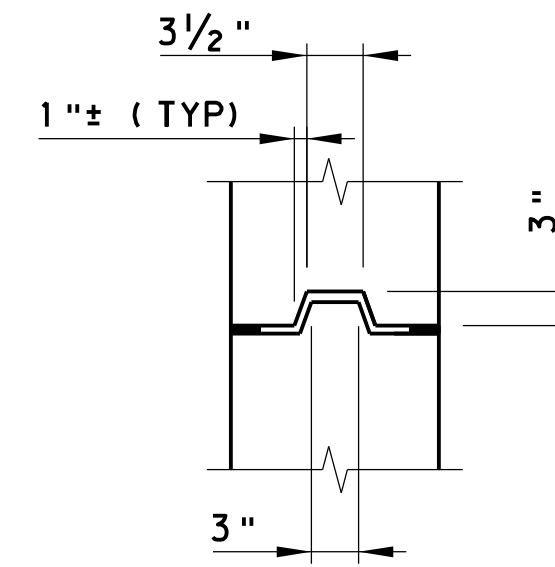
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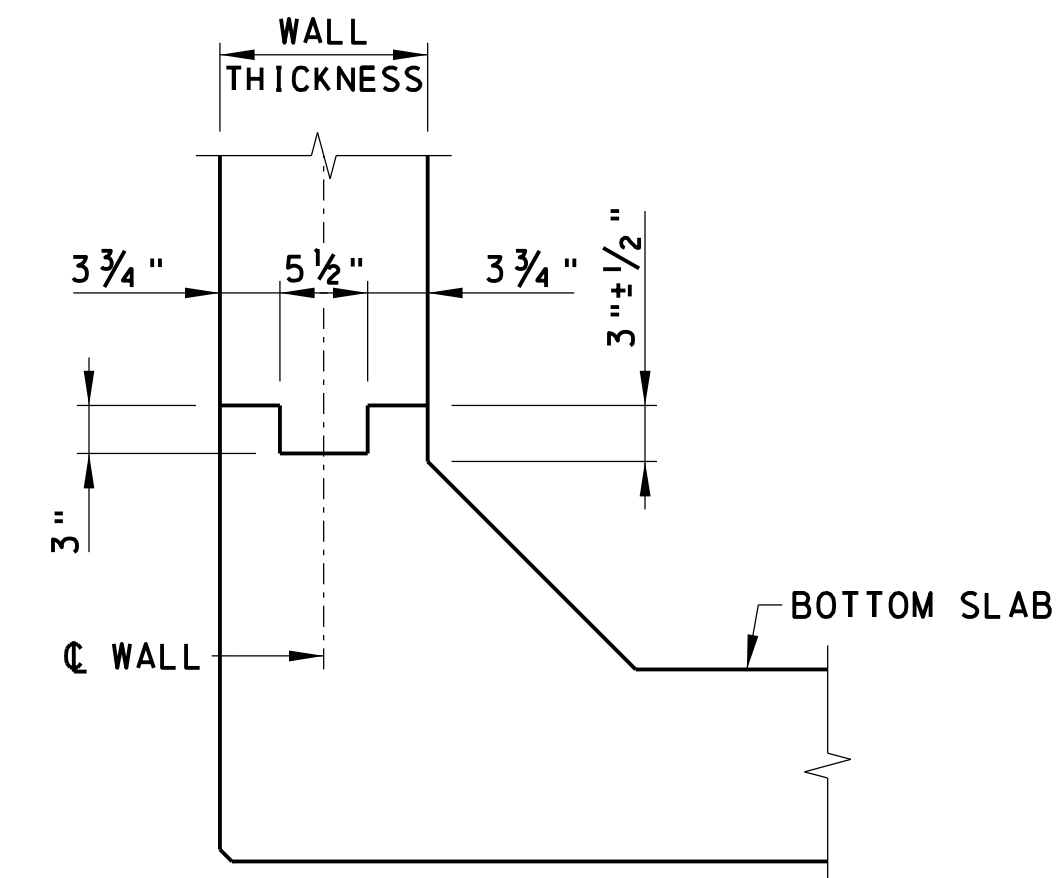
TYPICAL POST-TENSIONING DETAILS  
NOT TO SCALE



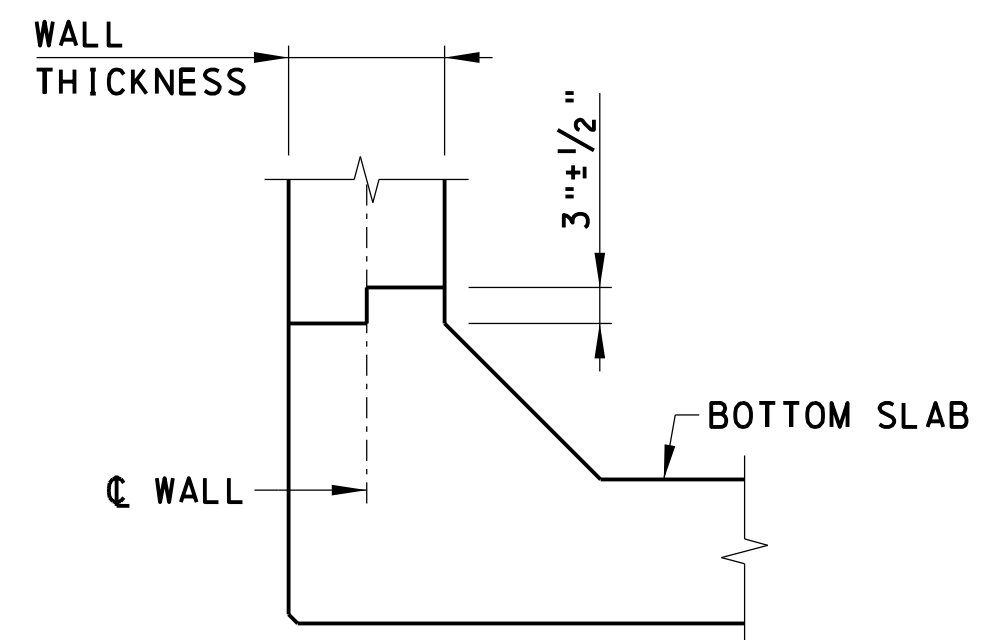
PRECAST ENDWALL CONNECTION DETAIL  
NOT TO SCALE



KEYED ENDWALL JOINT DETAIL  
NOT TO SCALE



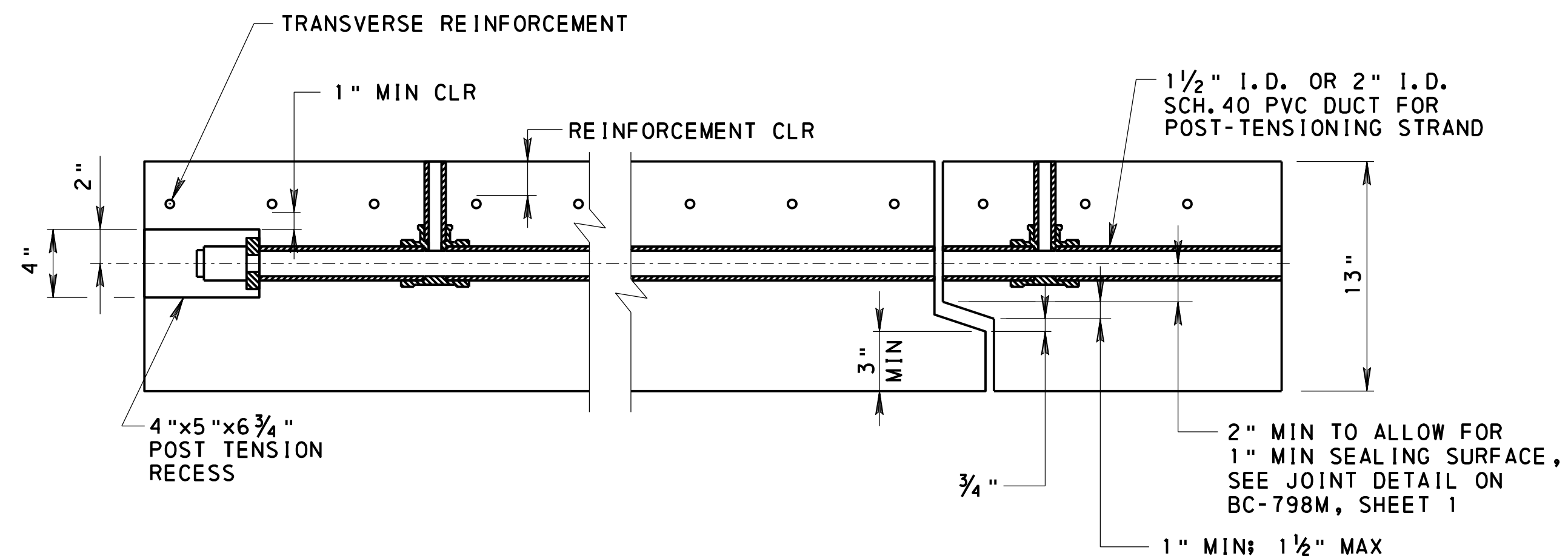
OPTIONAL KEYED CONSTRUCTION JOINT DETAIL  
NOT TO SCALE



OPTIONAL ALTERNATE SHIP-LAP CONSTRUCTION JOINT  
NOT TO SCALE

**POST-TENSIONING NOTES:**

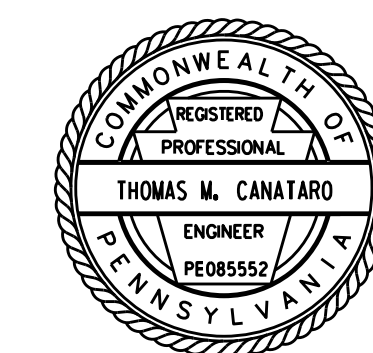
1. EXTEND BOTTOM ROW OF POST-TENSIONING STRANDS THROUGH THE BOTTOM SLAB OF PRECAST CONCRETE INLET AND OUTLET END SECTIONS.
2. BOX SEGMENTS AND END SECTIONS ARE POST-TENSIONED IN STAGES. THE CONTRACTOR IS REQUIRED TO SUBMIT A PLAN FOR POST-TENSIONING SEQUENCE TO THE COUNTY REPRESENTATIVE FOR APPROVAL PRIOR TO SETTING ANY SEGMENTS.
3. POST-TENSION BOX SEGMENTS FIRST, THEN PROVIDE:
  - \* MECHANICAL SPLICERS ON BOTTOM STRANDS TO CONNECT WITH THE INLET/OUTLET END SECTIONS AND POST-TENSION BOTTOM STRANDS THROUGH THE END SECTIONS.
  - \* STRAPS ON SIDES OF END SECTION AS SHOWN ON BC-798M.
4. PROVIDE FULL CONTACT OF THE JOINT SEALING MATERIAL AROUND THE ENTIRE JOINT BETWEEN THE END SECTIONS AND THE BOX SECTIONS.
5. AFTER POST-TENSIONING IS APPROVED, CUT STRANDS TO PROVIDE A MINIMUM OF 2 1/2" CLEAR FROM OUTSIDE FACE OF CONCRETE AND COAT RECESS WITH EPOXY BONDING COMPOUND AND FILL WITH NON-SHRINK GROUT.
6. THE NUMBER OF POST-TENSIONING STRANDS MAY BE INCREASED AND THEIR LOCATIONS MAY BE ADJUSTED BY THE FABRICATOR.
7. PRECAST CONCRETE SEGMENT LENGTH TO BE DETERMINED BY THE FABRICATOR.
8. STAGING, SPACING AND POST-TENSION FORCE TO BE SHOWN ON FABRICATOR'S SHOP DRAWINGS.
9. SEE BC-798M, SHEET 1 FOR ADDITIONAL POST-TENSIONING NOTES.



CONFIGURATION FOR SLAB/WALL WITH POST-TENSIONING  
NOT TO SCALE

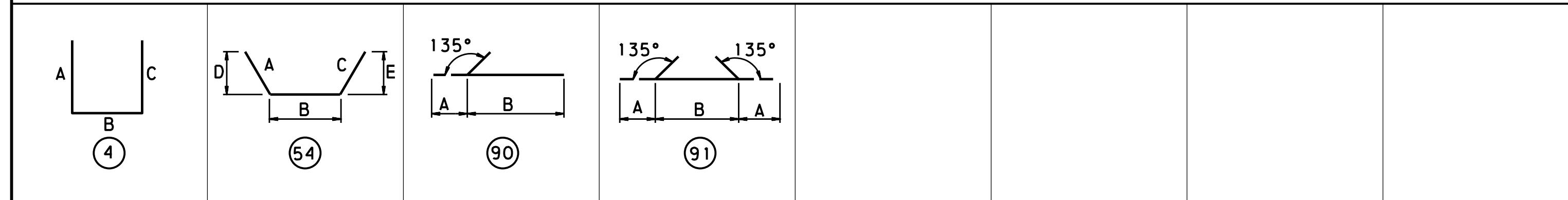
NOTES:  
• FOR GENERAL NOTES, SEE SHEET 2.

NO.	DATE	REVISION
		
Eagleview Corporate Center 600 Eagleview Boulevard 2nd Floor Exton, PA 19341 (610) 640-3500		
<b>BERKS ROAD BRIDGE REPLACEMENT PROJECT</b> BERKS ROAD OVER TRIBUTARY TO PLUM CREEK BERN TOWNSHIP BERKS COUNTY, PENNSYLVANIA		
<b>MISCELLANEOUS DETAILS</b>		
JOB NO.: 11169	DRWN: IRN	DATE: 10/27/2025
SCALE: AS STATED	CHKD: TMC	SHEET: 10 OF 13



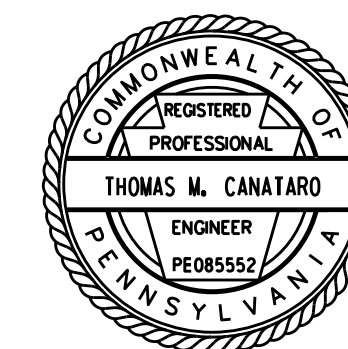
MARK	SIZE	NUMBER	LENGTH	TYPE	A	B	C	D	E	R	REMARKS
DECK SLAB											
ES401	4	22	16' - 4 1/4"	STR							
ES501	5	24	22' - 6"	STR							
BARRIERS/CURBS											
EC301	3	4	2' - 9 3/4"	4	1' - 4 1/4"	7"	10 1/2"				
EC302	3	4	4' - 0 1/4"	4	1' - 8"	7"	1' - 9 1/4"				
EC401	4	16	1' - 1" TO 1' - 2"	STR							THREAD ONE END; VARY BY 1/16"
EC402	4	16	1' - 5 1/2" TO 1' - 6 1/2"	90	4 1/2"	1' - 1" TO 1' - 2"					THREAD 'B' END; VARY 'B' BY 1/16"
EC403	4	16	11 7/8" TO 1' - 0 7/8"	STR							THREAD ONE END; VARY BY 1/16"
EC404	4	16	1' - 4 3/8" TO 1' - 5 3/8"	90	4 1/2"	11 7/8" TO 1' - 0 7/8"					THREAD 'B' END; VARY 'B' BY 1/16"
EC405	4	24	1' - 11"	91	4 1/2"	1' - 2"					
EC406	4	4	1' - 9"	91	4 1/2"	1' - 0"					
EC407	4	4	1' - 7"	91	4 1/2"	10"					
EC501	5	8	1' - 0"	STR							THREAD ONE END
EC601	6	6	16' - 4"	STR							
EC602	6	6	16' - 6"	54	1' - 8 1/2"	13' - 8"	1' - 1 1/2"	5"	3 1/4"		

BAR TYPES



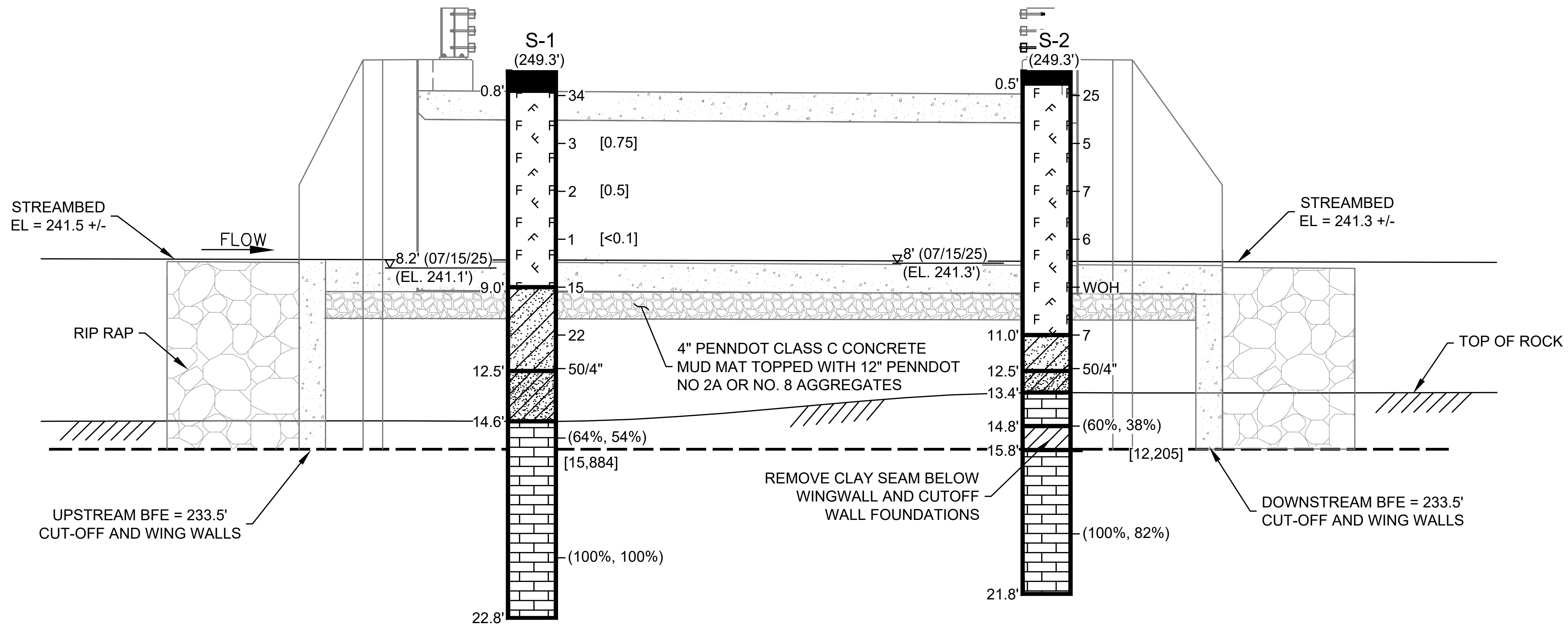
- FOR REINFORCEMENT BAR FABRICATION DETAILS, REFER TO STANDARD DRAWING BC-736M.
- FIGURES IN CIRCLES SHOW TYPES.
- "E" - INDICATES EPOXY COATED REBARS.
- FOR ALL BAR TYPES SHOWN, DIMENSIONS A-H AND LENGTH ARE MEASURED ALONG OUTSIDE OF BAR. R IS MEASURED ALONG INSIDE OF BAR.

c:\mt-pw-wor\k\mt-pw-bentley.com\mt-pw-01\mcana\o\dms64203\11 - REINFORCEMENT BAR SCHEDULE.dgn  
10/27/2025


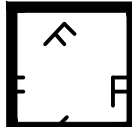
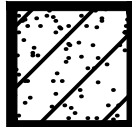


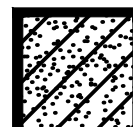
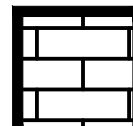
NO.	DATE	REVISION
		Eagleview Corporate Center 600 Eagleview Boulevard 2nd Floor Exton, PA 19341 (610) 640-3500
<b>BERKS ROAD BRIDGE REPLACEMENT PROJECT</b> BERKS ROAD OVER TRIBUTARY TO PLUM CREEK BERN TOWNSHIP BERKS COUNTY, PENNSYLVANIA		
<b>REINFORCEMENT BAR SCHEDULE</b>		
JOB NO.: 11169	DRWN: IRN	DATE: 10/27/2025
SCALE: N/A=10'	CHKD: TMC	SHEET: 11 OF 13



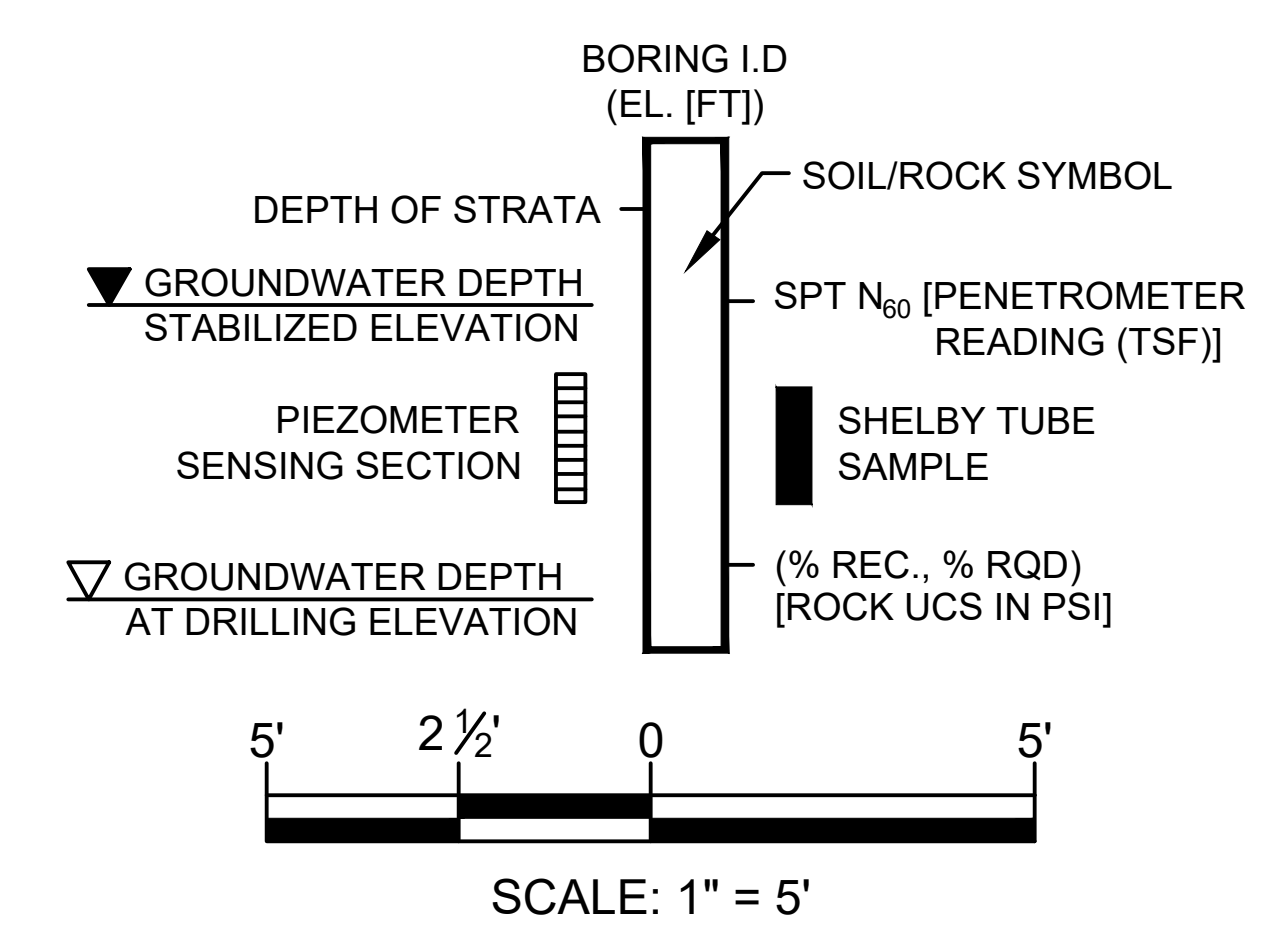


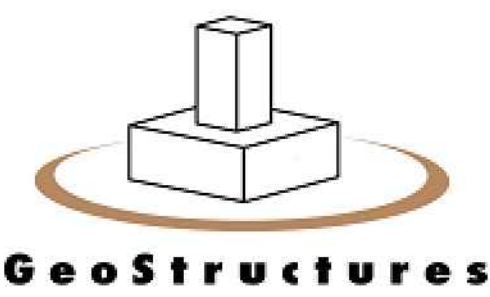
**LEGEND**

-  ASPHALT PAVEMENT AND MILLINGS AGGREGATES.
-  APPROACH FILL: VERY SOFT TO MEDIUM, BROWN AND DARK BROWN, LEAN CLAY (CL), SANDY LEAN CLAY (CL) AND SANDY LEAN CLAY WITH GRAVEL (CL), LOOSE, BROWN TO LIGHT BROWN, SILTY SAND WITH GRAVEL (SM), MOIST TO WET, INCLUDES CONCRETE PIECES, MICA FLAKES AND SOME COBBLES.
-  STRATUM 1: LOOSE TO MEDIUM DENSE, BROWN, CLAYEY SAND WITH GRAVEL (SC) TO CLAYEY GRAVEL WITH SAND (GC), INCLUDES THIN LEAN CLAY (CL) SUBLAYERS AND COBBLES, WET.

-  STRATUM 2: SAME AS STRATUM 1, EXCEPT VERY DENSE.
-  LIMESTONE: LIGHT GRAY, HARD, FRESH TO SLIGHTLY WEATHERED, VERY STEEPLY DIPPING (RD 70° - 85°) CALCITE FILLED THIN FRACTURES (VEINS).

**KEY**



	<b>TEST BORING PROFILES</b>		
	PROPOSED CULVERT REPLACEMENT BERKS ROAD OVER TRIBUTARY TO PLUM CREEK BERN TWP., BERKS CO., PA		
	SCALE: 1/8" = 1' (V)	DRAWN BY: JZ	PROJECT NO: G25-219
	DATE: 9/5/2025	CHECKED BY: EJS	DRAWING NO: 2