

UNIFORM DEPTH THROUGHOUT WIDTH OF CUT WITH 1/8" TOLERANCE BETWEEN PEAKS AND VALLEYS.

EDGELINE RUMBLE STRIPS DETAIL

NOT TO SCALE

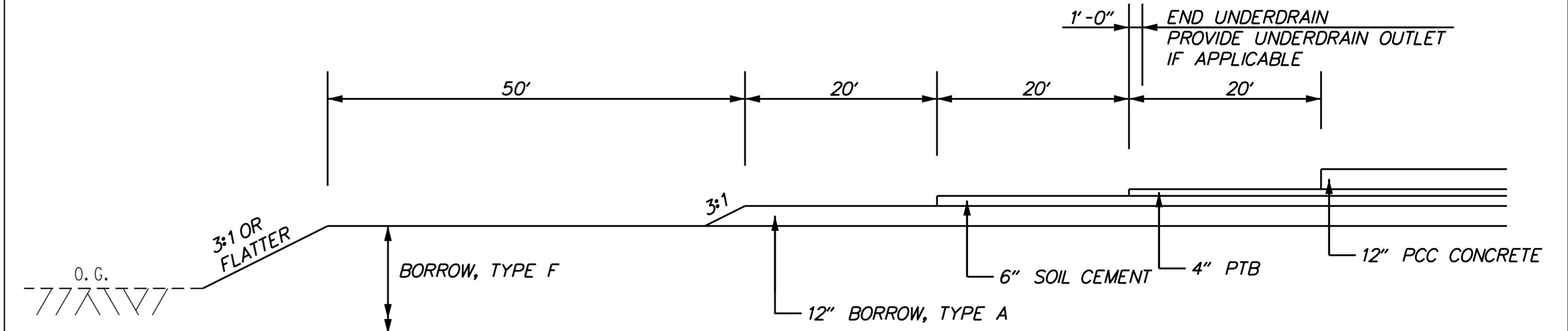
NOTES:

- ALL WORK REQUIRED TO COMPLETE THE INSTALLATION OF EDGELINE RUMBLE STRIPS SHALL BE INCIDENTAL TO ITEM 760504 - RUMBLE STRIPS, HOT MIX AND/OR ITEM 760506 - RUMBLE STRIPS, CONCRETE.

- RUMBLE STRIPS END 50' PRIOR TO PHYSICAL GORE

- EDGELINE RUMBLE STRIPS SHALL BE INSTALLED ALONG SHOULDERS, AS PER THIS DETAIL, AT THE FOLLOWING STATIONS:

- STATION 80+50 TO STATION 123+00, US 13 NB OUTSIDE SHOULDER
- STATION 97+50 TO STATION 131+00, US 13 SB OUTSIDE SHOULDER
- STATION 133+25 TO STATION 138+50, US 13 NB OUTSIDE SHOULDER
- STATION 139+75 TO STATION 144+66, US 13 SB OUTSIDE SHOULDER
- STATION 301+00 TO STATION 316+00, RAMP R INSIDE & OUTSIDE SHOULDERS
- STATION 4001+50 TO STATION 4003+22, PORT PENN EB OUTSIDE SHOULDERS
- STATION 4004+10 TO STATION 4008+85, PORT PENN WB OUTSIDE SHOULDERS
- STATION 4001+20 TO STATION 4003+00, PORT PENN WB OUTSIDE SHOULDERS



NOTES:

1. THIS DETAIL SHALL APPLY TO PAVEMENT CONSTRUCTED BY THE FIRST CONTRACTOR TO PERFORM WORK IN THIS AREA. SELECTION OF WHICH CONTRACT WILL CONSTRUCT THIS DETAIL WILL BE BASED UPON FIELD CONDITIONS AND WILL BE AT THE DIRECTION OF THE ENGINEER. PAYMENT SHALL BE MADE UNDER THE APPLICABLE CONTRACT PAY ITEMS.

2. THE FIRST CONTRACTOR SHALL COVER THE EXPOSED PERMEABLE TREATED BASE COURSE AND SOIL CEMENT BASE COURSE, INCLUDING SIDES AND ENDS, WITH POLYETHYLENE SHEETING, PROPERLY ANCHORED AND LAPPED AT LEAST 18". NO CONSTRUCTION TRAFFIC OF ANY KIND SHALL BE PERMITTED TO TRAVERSE OVER THE PTB OR SOIL CEMENT AT ANY TIME, EITHER COVERED OR UNCOVERED WITH POLYETHYLENE, EXCEPT FOR NECESSARY EQUIPMENT UTILIZED DURING PAVING OPERATIONS. ALL COSTS FOR FURNISHING, INSTALLING AND MAINTAINING THE POLYETHYLENE SHALL BE INCIDENTAL TO THE UNIT PRICE BID FOR THE PTB AND SOIL CEMENT BASE COURSE PAY ITEMS.

3. THE SECOND CONTRACTOR TO PERFORM OPERATIONS IN THIS AREA SHALL REMOVE AND PROPERLY DISPOSE OF THE POLYETHYLENE AND ANCHORING IMMEDIATELY PRIOR TO BEGINNING PAVEMENT OPERATIONS WITH ALL COSTS INCIDENTAL TO THE UNIT PRICE BID FOR THE PTB AND SOIL CEMENT BASE COURSE PAY ITEMS.

NOTES:

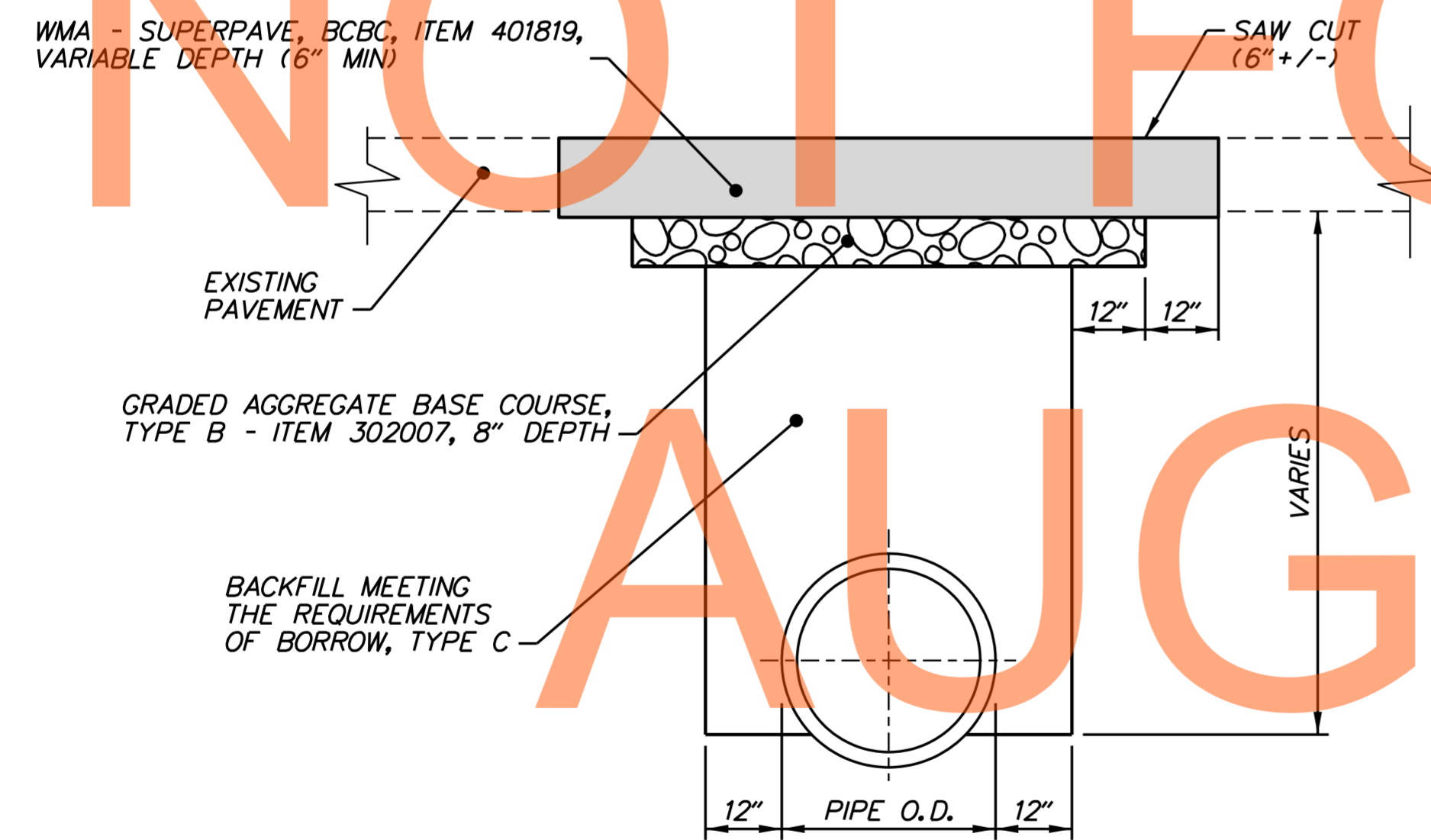
4. THE SECOND CONTRACTOR SHALL ALSO SAW CUT THE ENDS OF THE PTB AND SOIL CEMENT BASE COURSE A MINIMUM OF 6" FROM THE END FINISHED BY THE FIRST CONTRACTOR OR AS DIRECTED BY THE ENGINEER. COSTS FOR SAWCUTTING THE PTB SHALL BE MEASURED FOR PAYMENT UNDER ITEM 762001 SAWCUTTING, HOT MIX. COSTS FOR SAWCUTTING THE SOIL CEMENT BASE COURSE SHALL BE MEASURED FOR PAYMENT UNDER ITEM 762002 SAWCUTTING, CONCRETE, FULL DEPTH.

5. THE FIRST CONTRACTOR SHALL CONSTRUCT AND MAINTAIN EDGE BERMS AND TEMPORARY SLOPE DRAINS ALONG THE TOP OF ALL SIDE AND END SLOPES PER THE INCREMENTAL STABILIZATION DETAILS (STANDARD NO. E-1).

6. THE SECOND CONTRACTOR SHALL REMOVE THE EDGE BERMS AND TEMPORARY SLOPE DRAINS WITH ALL COSTS INCIDENTAL TO ITEM 202000.

PAVEMENT DETAIL AT LIMIT OF CONSTRUCTION

NOT TO SCALE



HOT-MIX PAVEMENT PATCH AND PIPE TRENCH

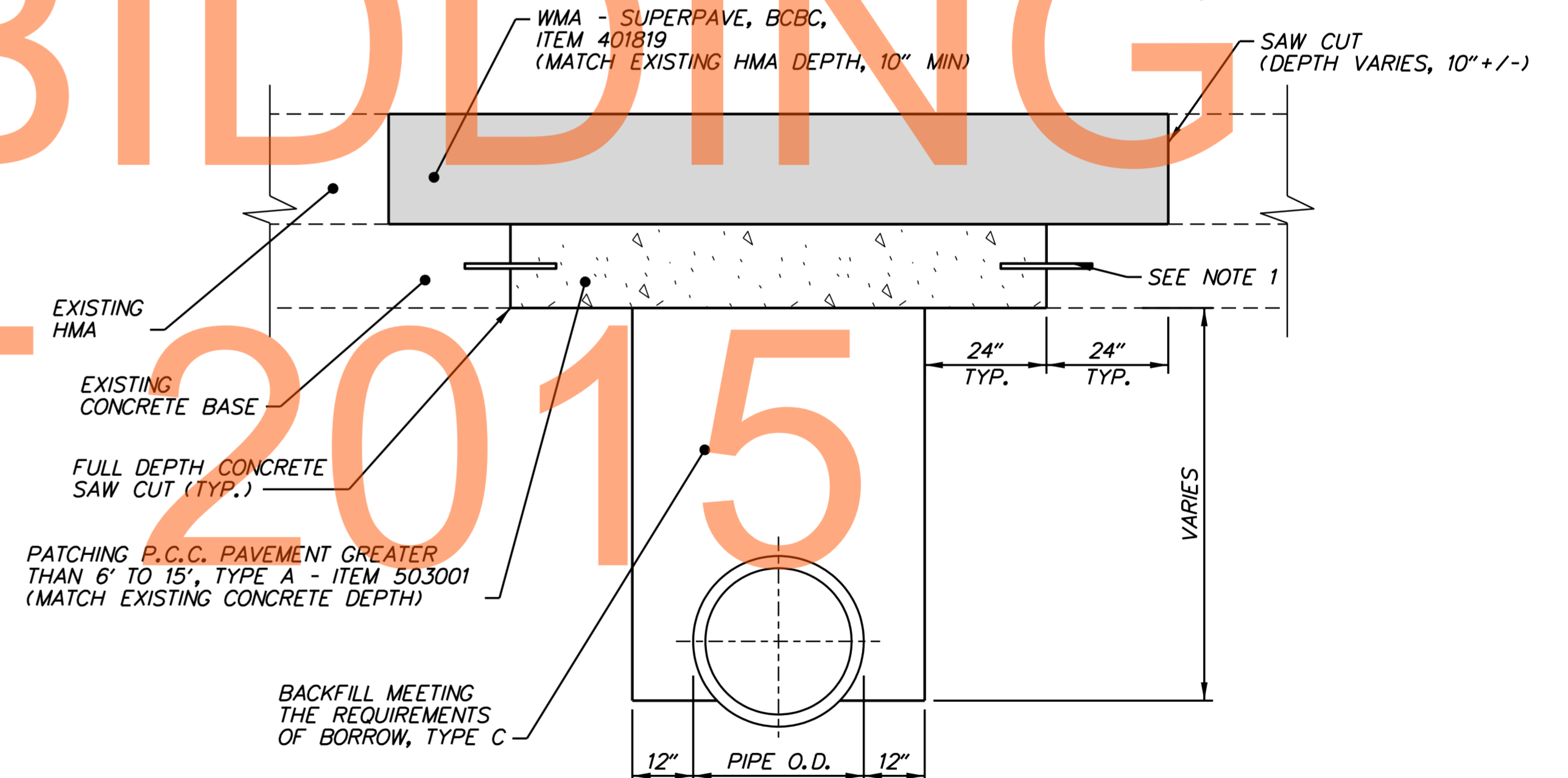
NOT TO SCALE

NOTES:

1. EXISTING HOT-MIX PAVEMENT MAY BE REMOVED BY A MILLING OPERATION. ALL HOT-MIX MATERIAL MUST BE REMOVED TO THE SAW CUT JOINTS PRIOR TO HOT-MIX PATCHING.

2. SEE STANDARD DETAILS FOR PIPE BEDDING.

3. THESE DETAILS SHOW MINIMUM PAVEMENT PATCH REQUIREMENTS. IF EXISTING ROADWAY HAS A HEAVIER CROSS SECTION, PROPOSED PAVEMENT PATCH WILL MATCH HEAVIER CROSS SECTION, OR AS DIRECTED BY THE ENGINEER.



COMPOSITE PAVEMENT PATCH AND PIPE TRENCH

NOT TO SCALE

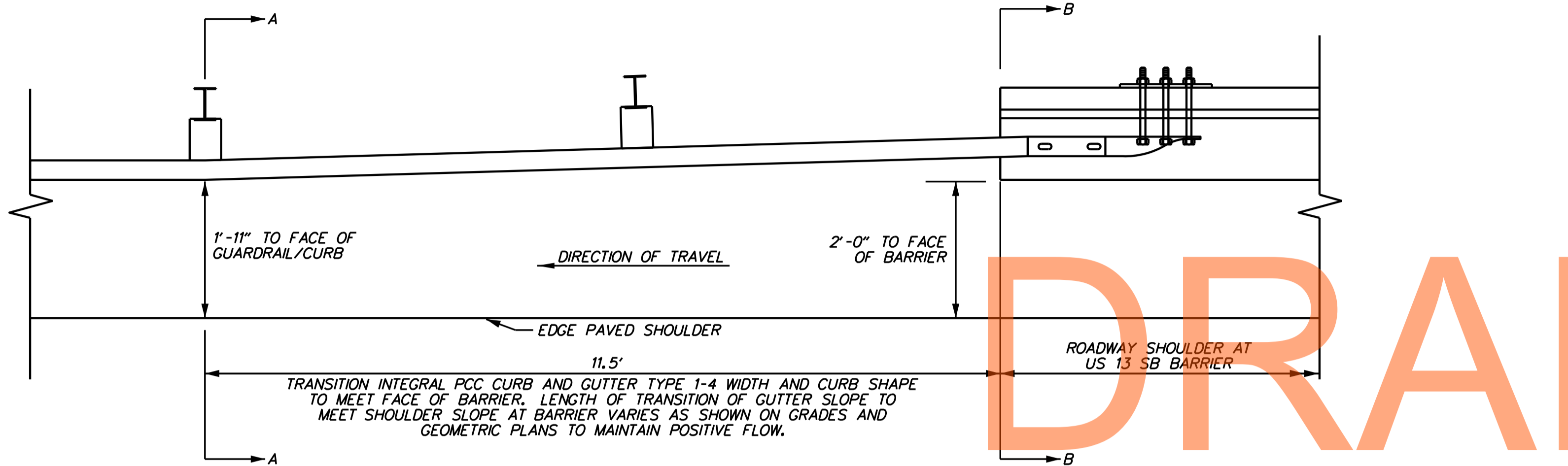
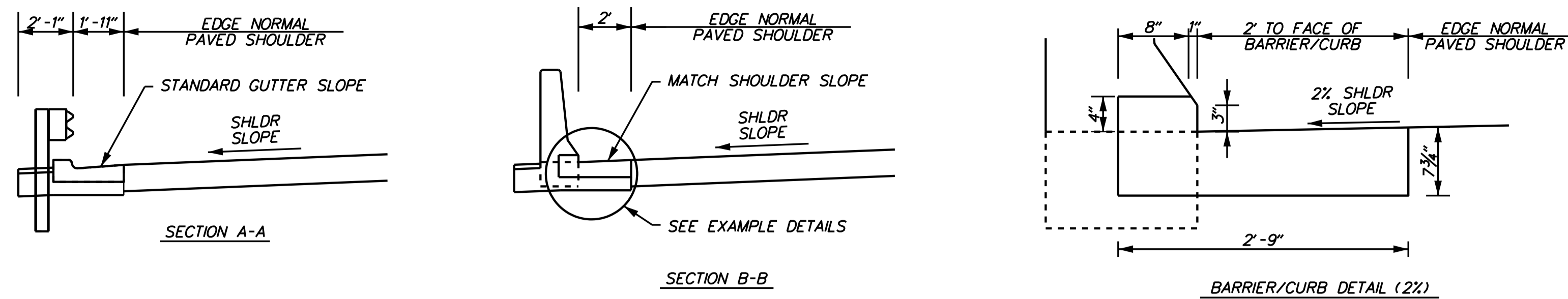
NOTES:

1. P.C.C. PAVEMENT PATCH SHALL BE DOWELED INTO ADJACENT CONCRETE PER STANDARD DETAILS. PAYMENT FOR DOWELS SHALL BE MADE INCIDENTAL TO ITEM 503002.

2. SEE STANDARD DETAILS FOR PIPE BEDDING.

3. THESE DETAILS SHOW MINIMUM PAVEMENT PATCH REQUIREMENTS. IF EXISTING ROADWAY HAS A HEAVIER CROSS SECTION, PROPOSED PAVEMENT PATCH WILL MATCH HEAVIER CROSS SECTION, OR AS DIRECTED BY THE ENGINEER.

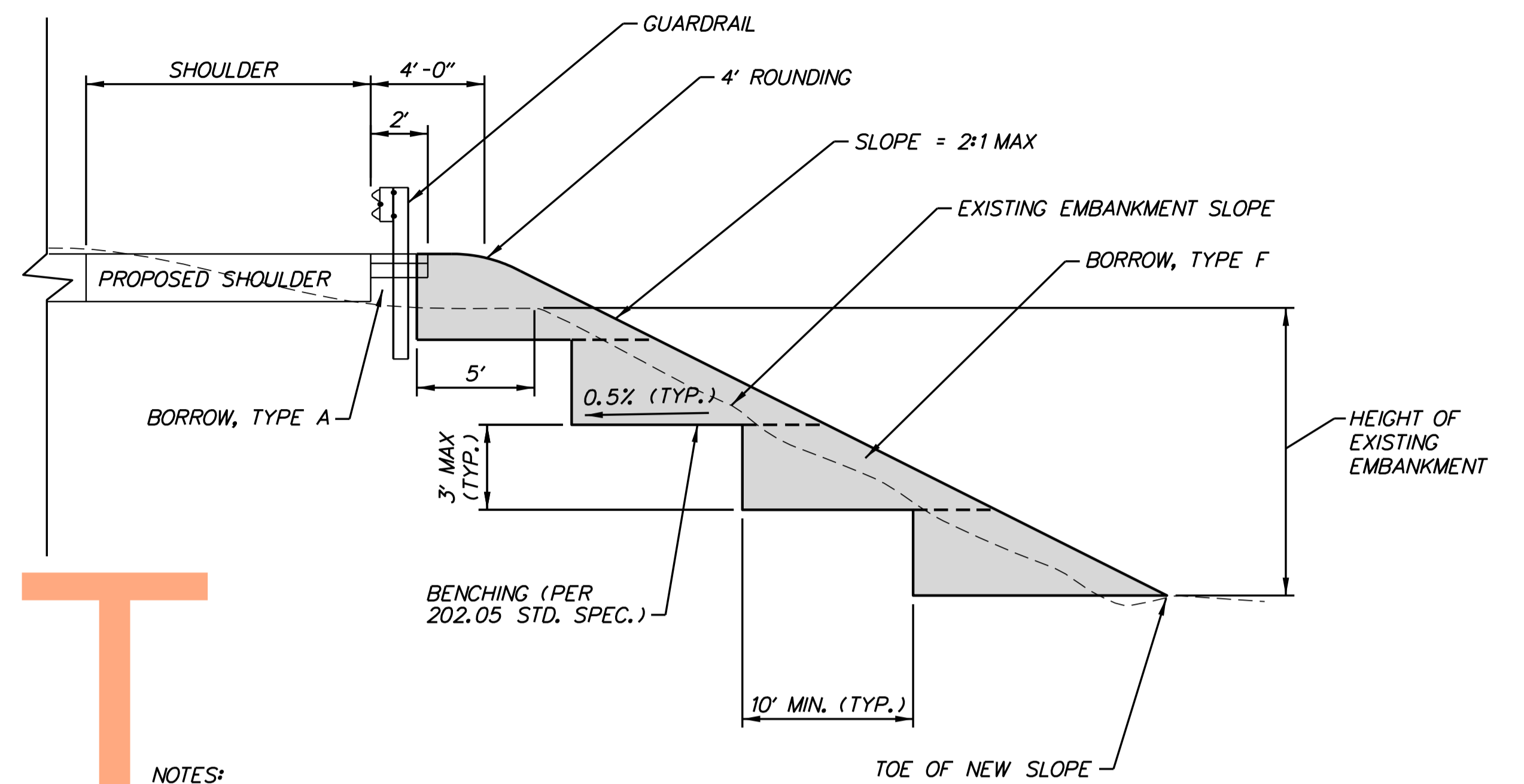
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- NOTES:**
1. PLACE PREFORMED EXPANSION JOINT MATERIAL BETWEEN END OF CURB AND BARRIER PER SECTION 701.03.
 2. TRANSITION LIMITS TO BE MEASURED FOR PAYMENT UNDER ITEM 701016 WITH ALL COSTS FOR TRANSITION INCLUDED IN ITEM 701016.

CURB TRANSITION DETAILS AT GUARDRAIL TO BARRIER CONNECTION (EXIT TYPE)

US 13 SOUTHBOUND OUTSIDE SHOULDER: STA. 133+32.5 TO STA. 133+21.0



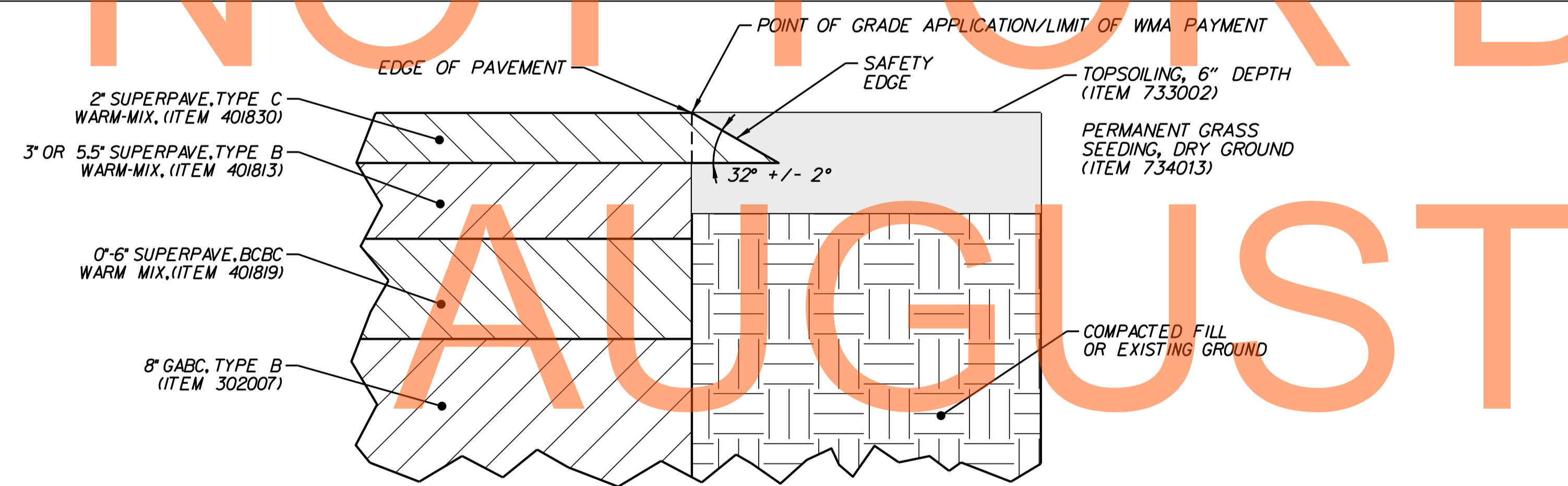
- NOTES:**
- BENCHING SHALL CONFORM TO THIS DETAIL AT ALL LOCATIONS WHERE EXISTING EMBANKMENTS WITH A SLOPE 4:1 OR STEEPER, AND A HEIGHT OF 3' OR MORE, ARE WIDENED.

BENCHING DETAIL

NOT TO SCALE

NOT FOR BIDDING

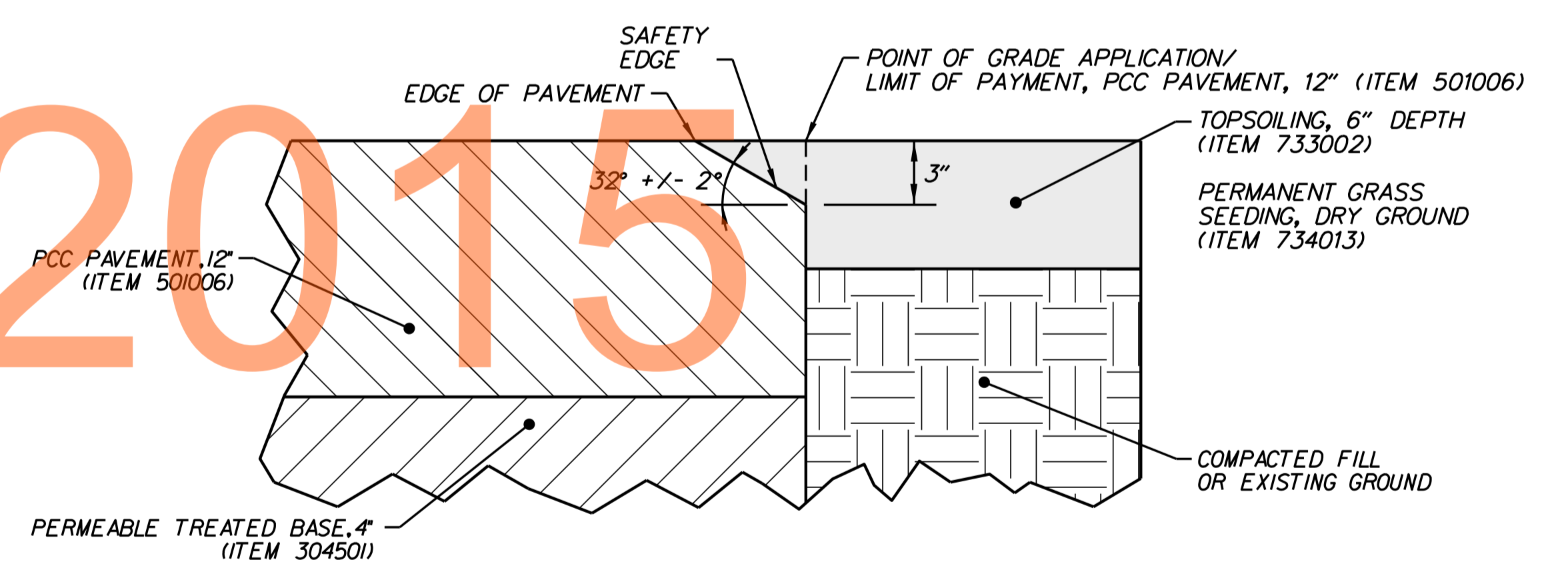
AUGUST 2015



SAFETY EDGE - BITUMINOUS PAVEMENT AND OVERLAYS

NOT TO SCALE

- NOTE:**
1. FOR ADDITIONAL INFORMATION, SEE ITEM 401572 SAFETY EDGE FOR ROADWAY PAVEMENT.
 2. THE SAFETY EDGE SHALL NOT BE CONSTRUCTED ADJACENT TO OTHER PAVEMENTS, CURB & GUTTER, CONCRETE SAFETY BARRIER OR MAINTENANCE PAVEMENT UNDER GUARDRAIL. THE CONTRACTOR SHALL STAKE OUT THE LIMITS OF THE AREAS NOT TO RECEIVE THE SAFETY EDGE FOR APPROVAL BY THE ENGINEER PRIOR TO BEGINNING PAVEMENT OPERATIONS.
 3. IN BITUMINOUS CONCRETE PAVEMENT SECTIONS, PRIOR TO THE CONSTRUCTION OF THE SAFETY EDGE IN OVERLAY SECTIONS AND MILL/OVERLAY SECTIONS, THE EXISTING TOPSOIL OR IN-SITU MATERIAL AT THE EDGE OF PAVEMENT SHALL BE COMPACTED SO THAT IT IS LEVEL WITH THE BOTTOM OF THE FINAL SURFACE LAYER PRIOR TO PLACING THE FINAL SURFACE OVERLAY. AFTER THE FINAL SURFACE OVERLAY IS PACED, TOPSOIL SHALL BE PLACED TO THE TOP OF THE FINAL SURFACE OVERLAY.
 4. IN BITUMINOUS CONCRETE PAVEMENT SECTIONS WHERE FULL DEPTH TOPSOIL IS PROPOSED TO BE PLACED ADJACENT TO THE EDGE OF PAVEMENT, THE TOPSOIL SHALL BE PLACED AND COMPACTED ALONG THE PAVEMENT EDGE TO THAT IS IT LEVEL WITH THE BOTTOM OF THE FINAL SURFACE LAYER PRIOR TO PACING THE FINAL SURFACE OVERLAY. AFTER THE FINAL SURFACE OVERLAY IS PLACED, THE TOPSOIL SHALL BE PLACED TO THE TOP OF THE FINAL SURFACE OVERLAY. ALL COSTS FOR PLACING AND COMPACTING THE TOPSOIL SHALL BE INCLUDED IN THE PRICE OF THE TOPSOIL ITEM.



SAFETY EDGE - CONCRETE PAVEMENT

NOT TO SCALE

- NOTE:**
1. FOR ADDITIONAL INFORMATION, SEE ITEM 401572 SAFETY EDGE FOR ROADWAY PAVEMENT.
 2. THE SAFETY EDGE SHALL NOT BE CONSTRUCTED ADJACENT TO OTHER PAVEMENTS, CURB & GUTTER, CONCRETE SAFETY BARRIER OR MAINTENANCE PAVEMENT UNDER GUARDRAIL. THE CONTRACTOR SHALL STAKE OUT THE LIMITS OF THE AREAS NOT TO RECEIVE THE SAFETY EDGE FOR APPROVAL BY THE ENGINEER PRIOR TO BEGINNING PAVEMENT OPERATIONS.

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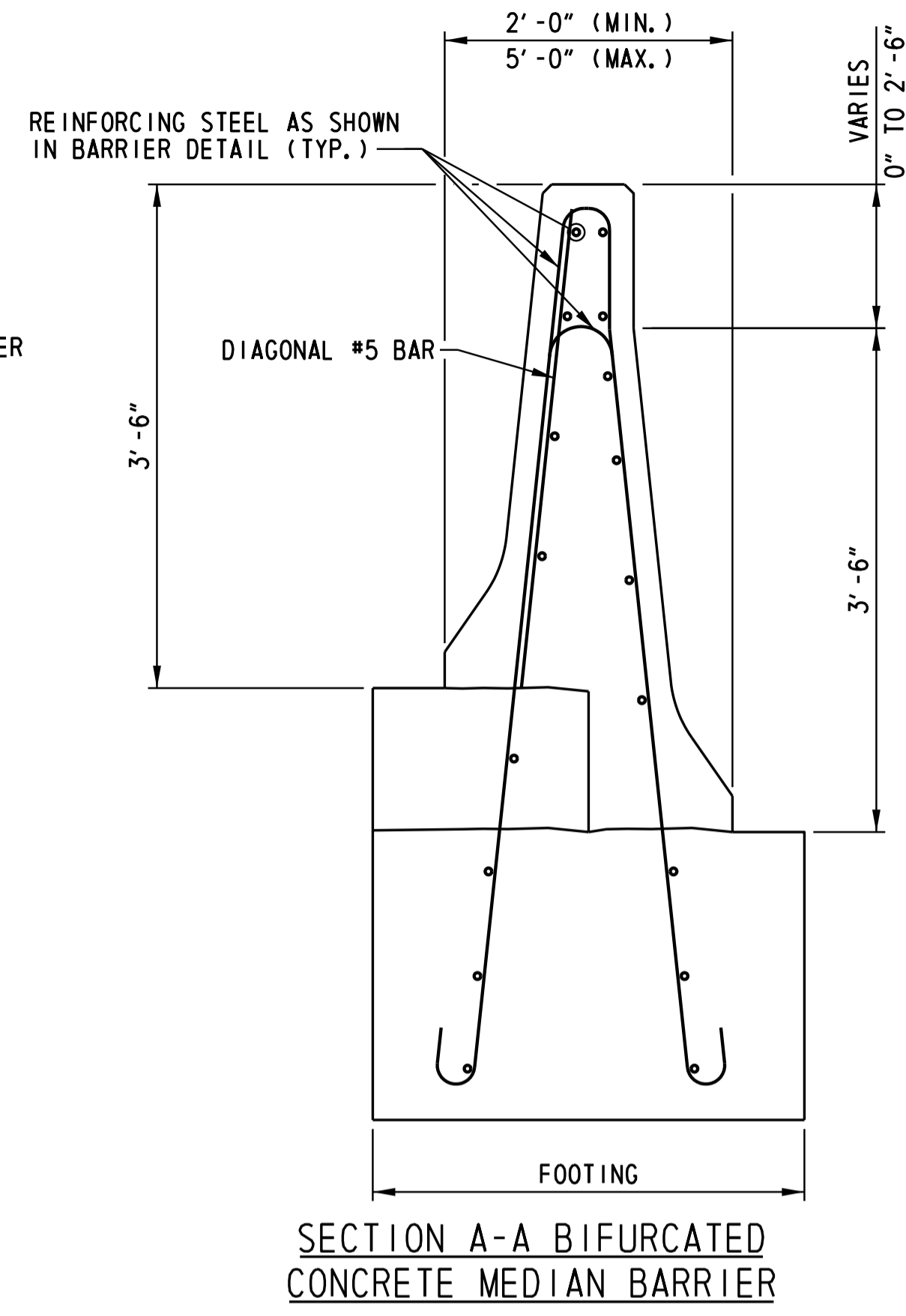
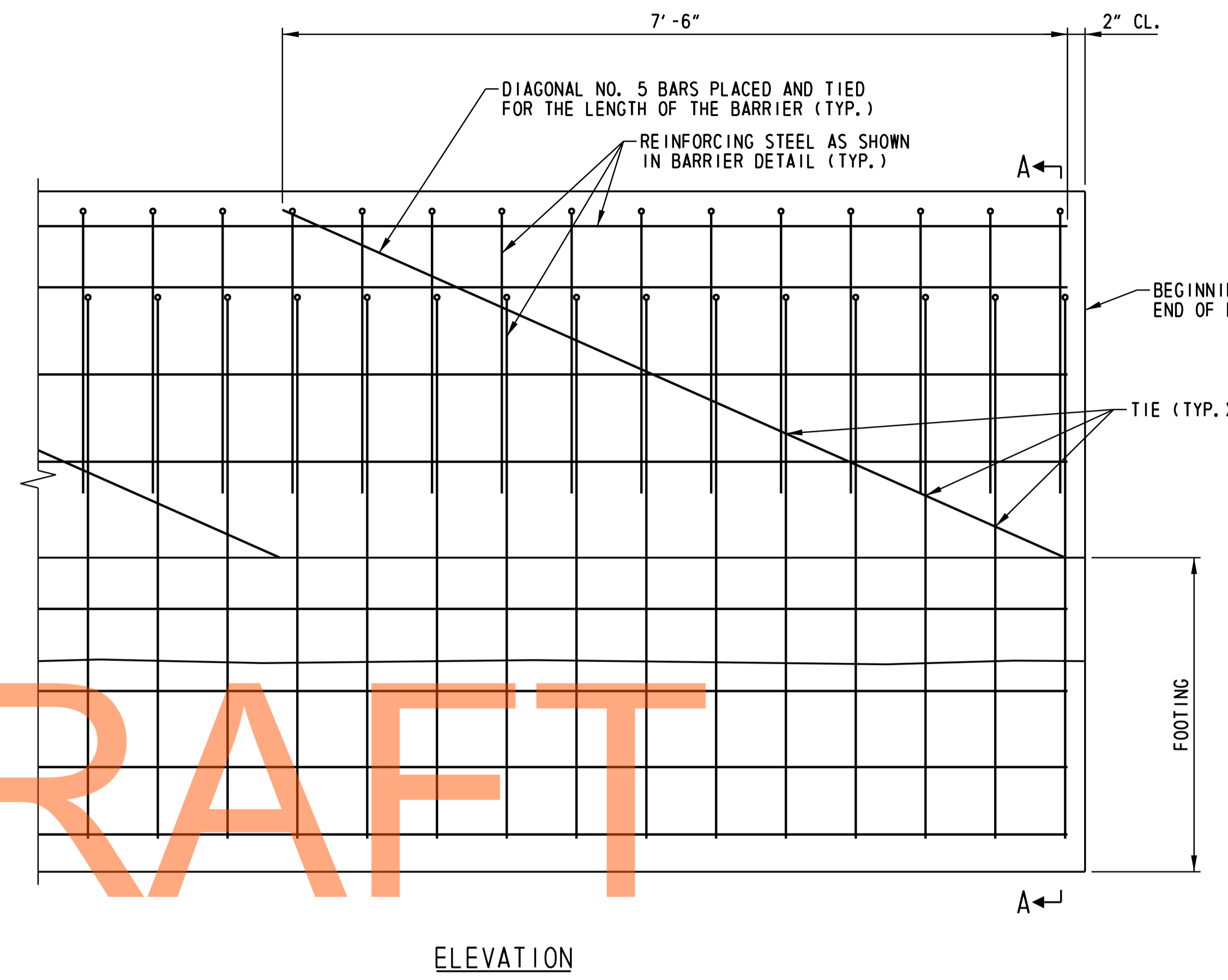
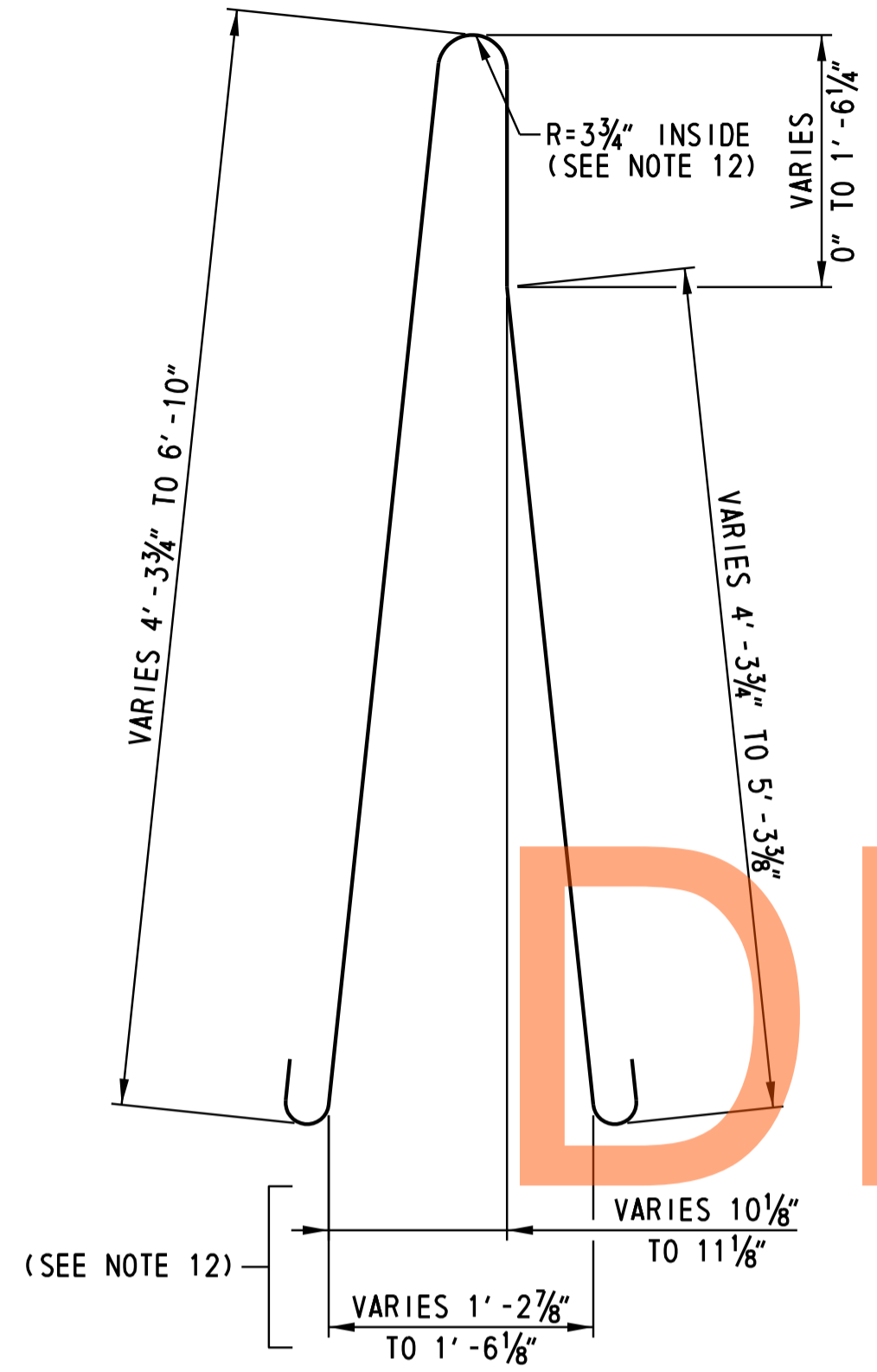
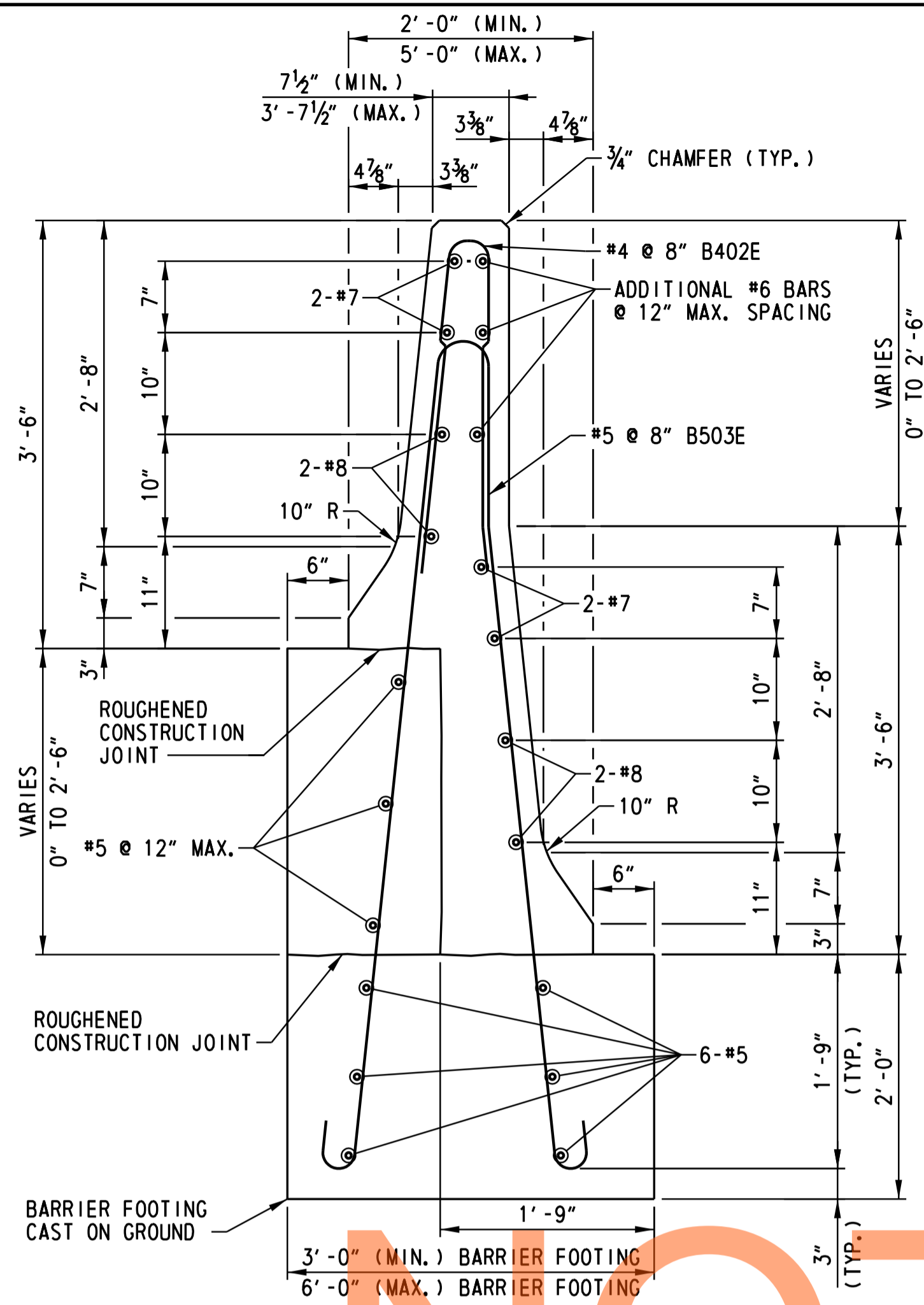
ADDENDUMS / REVISIONS

SCALE: AS SHOWN

US 13 & PORT PENN RD INTERSECTION

CONTRACT T201011302	BRIDGE NO.
COUNTY NEW CASTLE	DESIGNED BY: D.A.N. CHECKED BY: J.A.G.

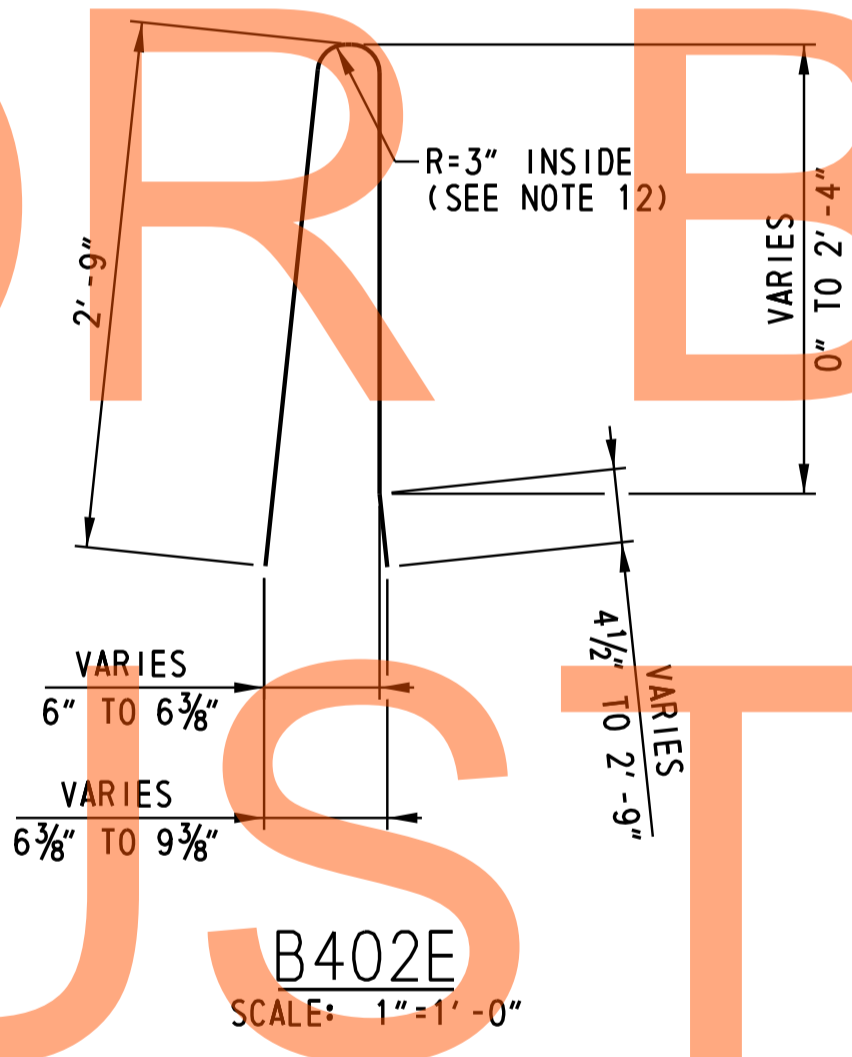
CONSTRUCTION DETAILS	SHEET NO.
	TOTAL SHTS.
	179



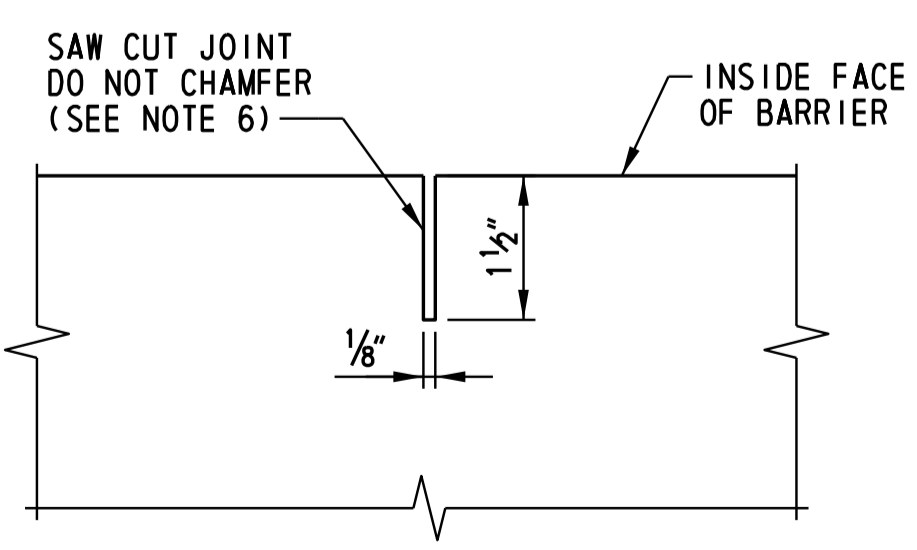
BIFURCATED CONCRETE MEDIAN BARRIER
SCALE: 1"=1'-0"

CONCRETE BARRIER NOTES:

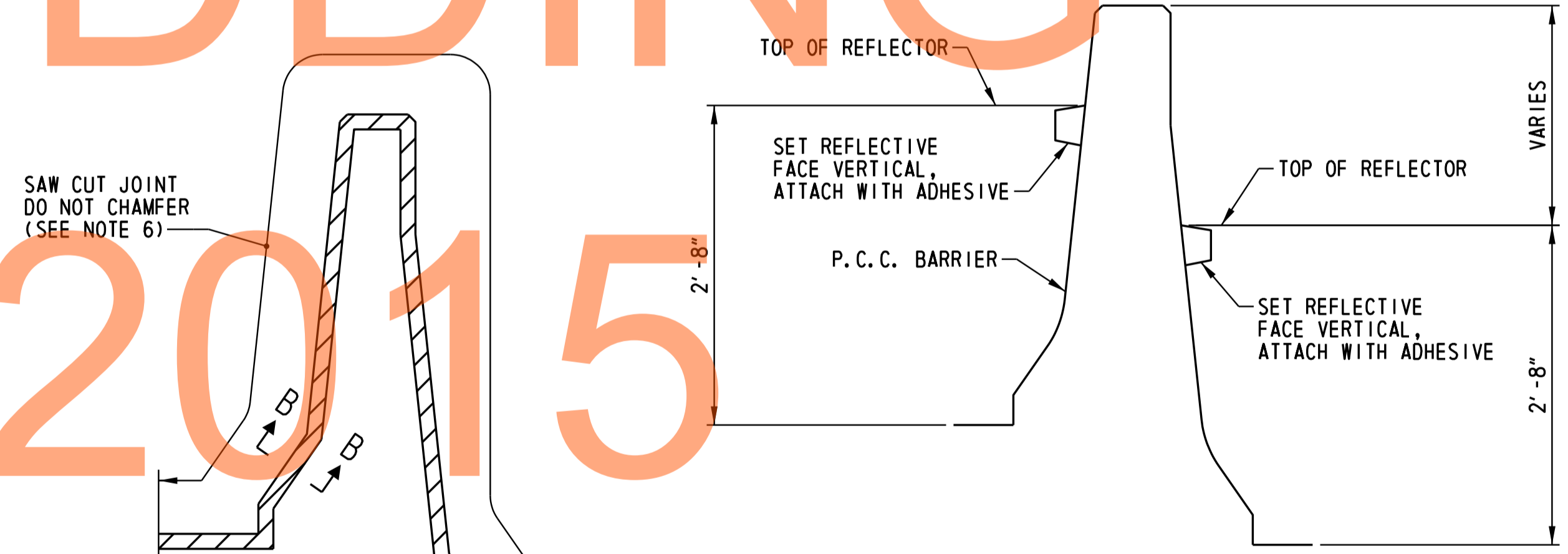
1. BIFURCATED CONCRETE MEDIAN BARRIER MUST MEET TL-4 LOADING CRITERIA AS SPECIFIED IN NCHRP REPORT 350.
2. THE BARRIER AND FOOTING SHALL BE CAST SEPARATELY USING THE FIXED FORM OR THE SLIP FORM CONSTRUCTION METHOD. ALL CONCRETE SHALL BE CLASS A PORTLAND CEMENT CONCRETE ($f'c = 4,500$ PSI AT 28 DAYS) AND SHALL BE CONTINUOUSLY PLACED WHEN USING FIXED FORM CONSTRUCTION. ALL CONCRETE SHALL BE CLASS B PORTLAND CEMENT CONCRETE ($f'c = 3,000$ PSI AT 28 DAYS) WHEN USING THE SLIP FORMING CONSTRUCTION METHOD. WHEN USING THE SLIP FORMING CONSTRUCTION METHOD, THE SLIP FORMING MACHINE SHALL BE SUPPORTED OFF OF THE CONCRETE SOIL CEMENT BASE COURSE REQUIRED FOR THE ADJACENT ROADWAY.
3. ALL REINFORCING STEEL SHALL MEET THE REQUIREMENTS OF AASHTO M 31 (ASTM A 615), GRADE 60 AND SHALL BE BENT BEFORE APPLYING EPOXY COATING. ALL BAR LAPS SHALL BE IN CONFORMANCE WITH THE CURRENT EDITION OF THE AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS AND ALL BARS SHALL BE TIED TOGETHER.
4. ALL REINFORCING STEEL SHALL BE PROTECTED WITH FUSION-BONDED EPOXY CONFORMING TO AASHTO M 284 (ASTM A 775).
5. WHEN THE BARRIER IS CONSTRUCTED USING THE SLIP FORM METHOD, DIAGONAL NO. 5 BARS ARE REQUIRED.
6. SPACING OF BARRIER CONTROL JOINTS SHALL BE A MAXIMUM OF 10 FEET REGARDLESS OF CONSTRUCTION METHOD. SEE DETAIL THIS SHEET. SPACING OF FOOTING CONTROL JOINTS SHALL BE A MAXIMUM OF 10 FEET AND ALIGN WITH THE CONTROL JOINTS IN THE BARRIER.
7. THE CONTRACTOR HAS THE OPTION TO CONSTRUCT THE FOOTING AND BARRIER AFTER CONSTRUCTION OF THE PAVEMENT. THE FOOTING FORMS, IF USED, SHALL BE REMOVED IF THE BARRIER AND FOOTING ARE CONSTRUCTED BEFORE THE PAVEMENT.
8. THE FOOTING REAR VERTICAL WALL SHALL BE FORMED OR THE CONCRETE PLACED AGAINST THE VERTICAL EARTH SIDE IF APPROVED BY THE ENGINEER. NO ADDITIONAL COMPENSATION FOR ADDITIONAL CONCRETE WILL BE PAID IF THE CONCRETE IS PLACED AGAINST THE EARTH.
9. THE CONTRACTOR SHALL ATTACH THE YELLOW AND/OR WHITE REFLECTORS TO THE BARRIERS AS SHOWN IN THE DETAIL ON THIS SHEET. PAYMENT FOR THE REFLECTORS SHALL BE IN ACCORDANCE WITH ITEM NOS. 720544 AND 720545 AS APPROPRIATE.
10. PRIOR TO PLACING BARRIER CONCRETE ADJACENT TO EXISTING CONCRETE PAVEMENT, OR PRIOR TO PLACING CONCRETE PAVEMENT ADJACENT TO EXISTING BARRIER CONCRETE, AN APPROVED BOND BREAKER SHALL BE APPLIED TO THE EXISTING CONCRETE VERTICAL FACE. THIS LONGITUDINAL JOINT AT THE INTERFACE BETWEEN THE CONCRETE PAVEMENT AND THE BARRIER CONCRETE SHALL BE CONSTRUCTED PER THE LONGITUDINAL DETAIL ON STANDARD P-2, SHEET 3 OF 5. VERTICAL CRACKS IN THE EXISTING CONCRETE FACE SHALL BE COVERED OR SEALED AS APPROVED BY THE ENGINEER TO PREVENT INTRUSION OF THE NEW CONCRETE INTO THE EXISTING CONCRETE. ALL WORK SHALL BE INCIDENTAL TO THE APPROPRIATE BARRIER ITEM.
11. COST OF THE BIFURCATED CONCRETE MEDIAN BARRIER CONCRETE FOOTING, REINFORCING STEEL AND EXCAVATION SHALL BE INCIDENTAL TO THE CONTRACT UNIT PRICE PER LINEAR FOOT FOR BIFURCATED CONCRETE MEDIAN BARRIER (ITEM 720629).
12. BARS B402E AND B503E ARE FOR A 2'-0" WIDE BARRIER. DIMENSIONS WILL VARY FOR BARRIERS GREATER THAN 2'-0" WIDE.



DIAGONAL BAR DETAIL
SCALE: 1"=1'-0"



SECTION B-B
NOT TO SCALE



REFLECTOR DETAIL
SCALE: 1"=1'-0"

- REFLECTOR DETAIL NOTES:**
1. COLOR OF REFLECTOR ON TRAFFIC SIDE SHALL MATCH ADJACENT LANE LINE COLOR. BACK SIDE OF ALL REFLECTORS SHALL BE RED.
 2. THE SPACING OF REFLECTORS ON PERMANENT P.C.C. BARRIER SHALL BE COORDINATED WITH THE DELINEATORS AT THE APPROACHES TO THE BARRIER SUCH THAT THE SPACING OF DELINEATORS/REFLECTORS DOES NOT EXCEED 100 FT.
 3. ALL COST SHALL BE INCLUDED IN ITEM 720544 - REFLECTORS, WHITE, CONCRETE AND 720545 - REFLECTORS, YELLOW, CONCRETE.

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ADDENDUMS / REVISIONS	

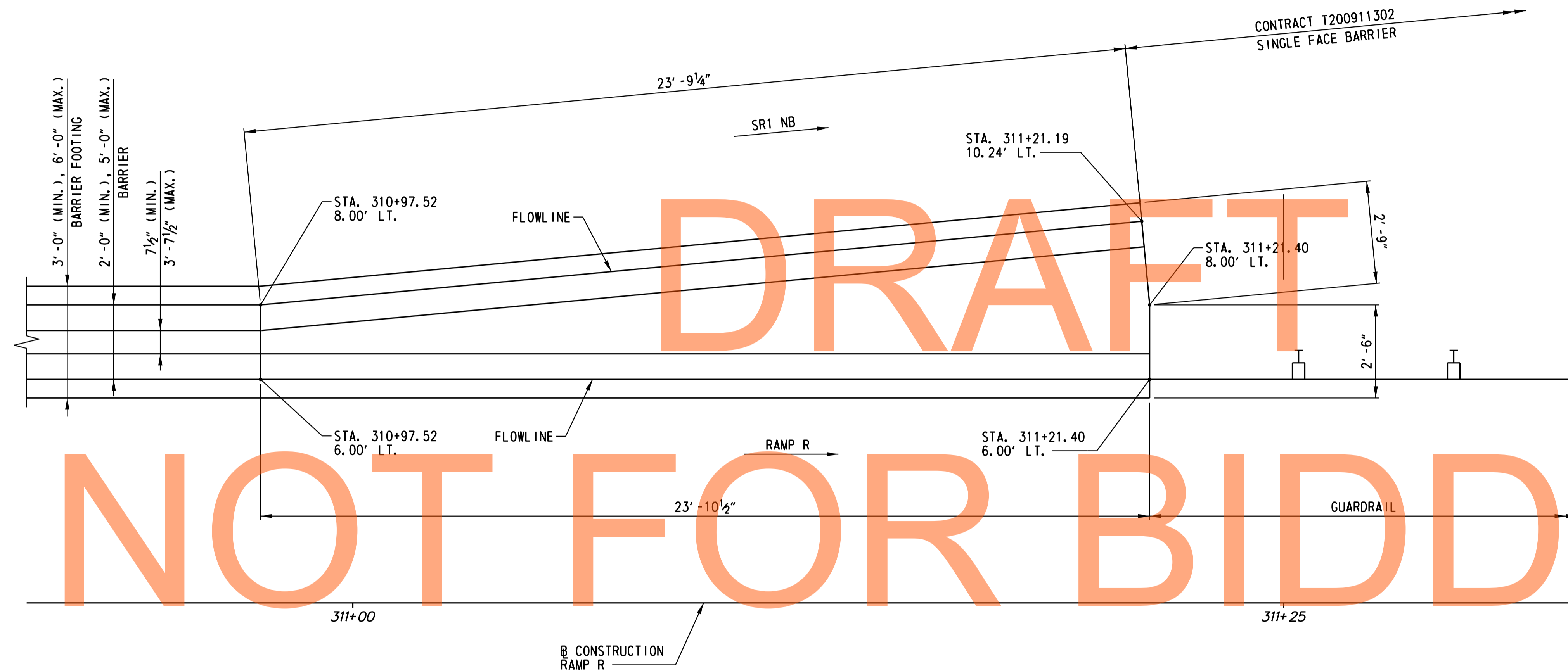
SCALE: AS NOTED

US 13 & PORT PENN RD INTERSECTION

CONTRACT	BRIDGE NO.
T201011302	
COUNTY	DESIGNED BY: B.K.B.
NEW CASTLE	CHECKED BY: W.A.G.

CONSTRUCTION DETAILS	
SHEET NO.	68
TOTAL SHTS.	179

DT-04



DRAFT

NOT FOR BIDDING

AUGUST 2015

MEDIAN BARRIER AT RAMP R AND SR1 SPLIT - PLAN
SCALE: 1/2" = 1' - 0"

NOTE:
FOR CONCRETE BARRIER NOTES, SEE DWG. NO. DT-04.

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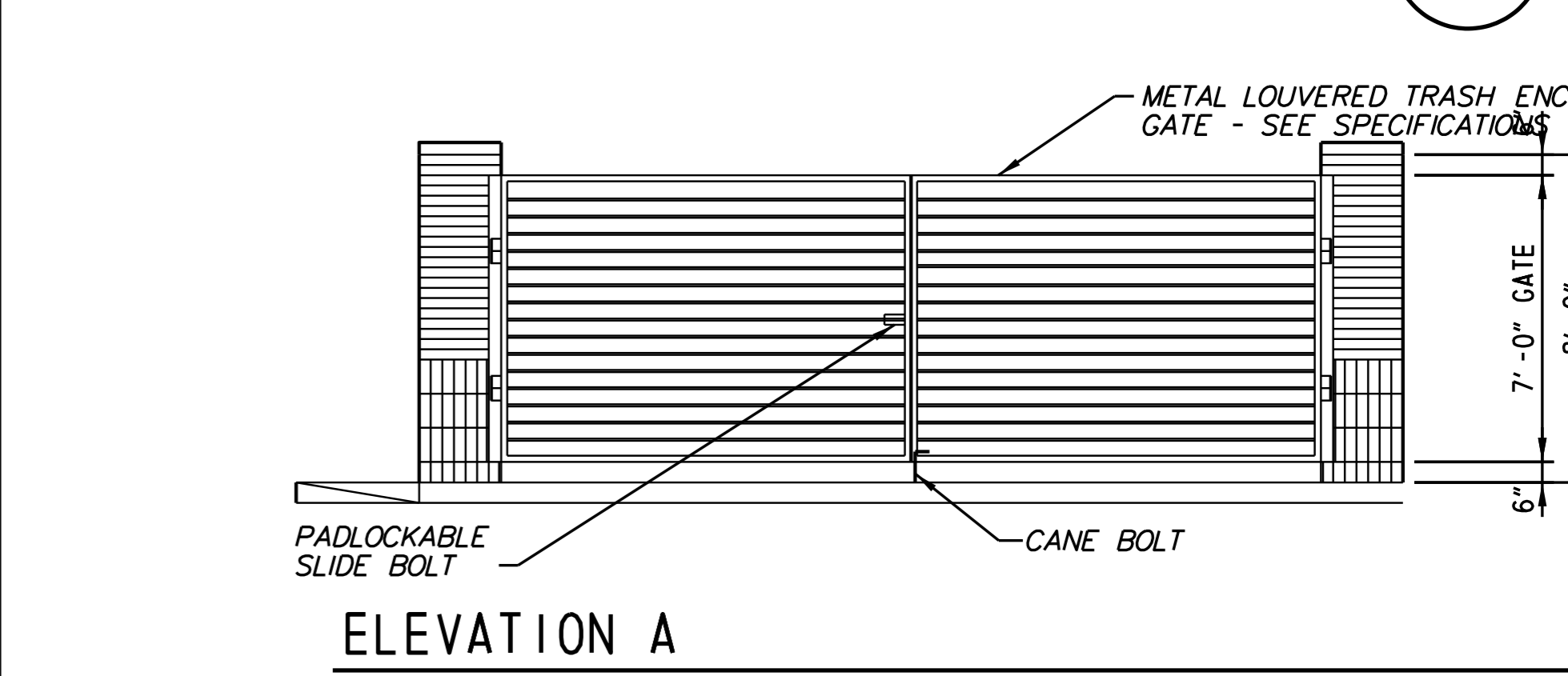
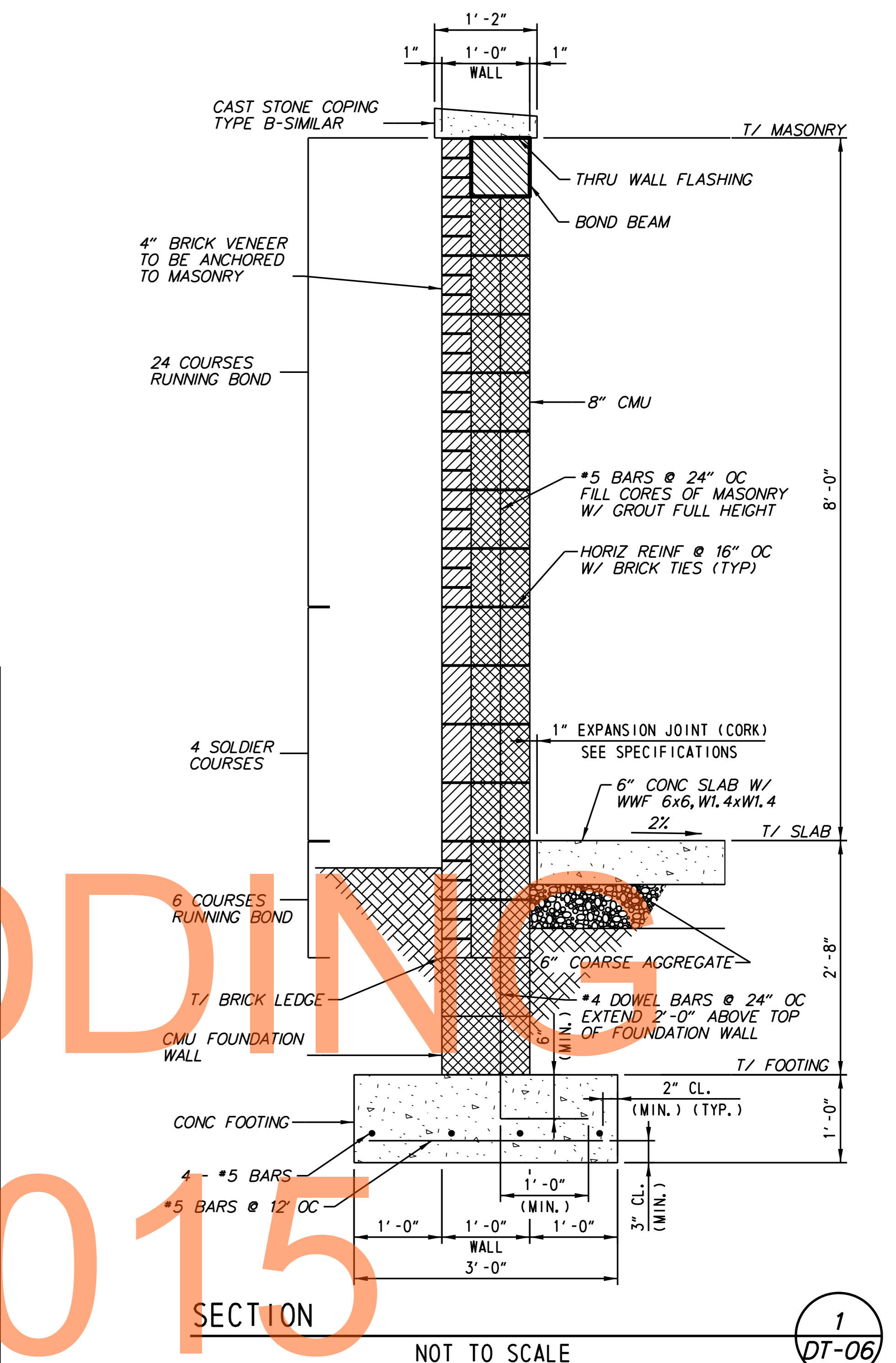
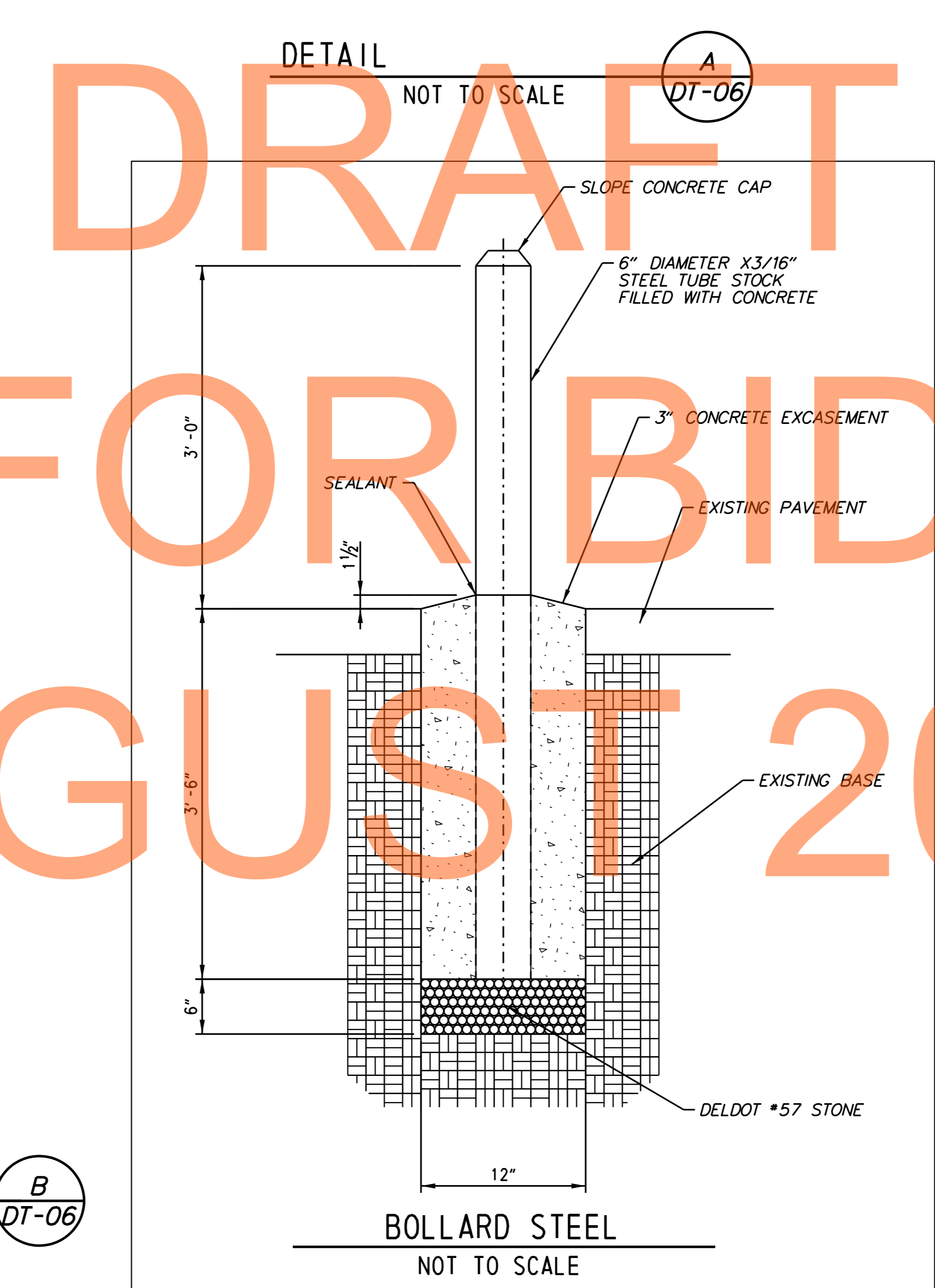
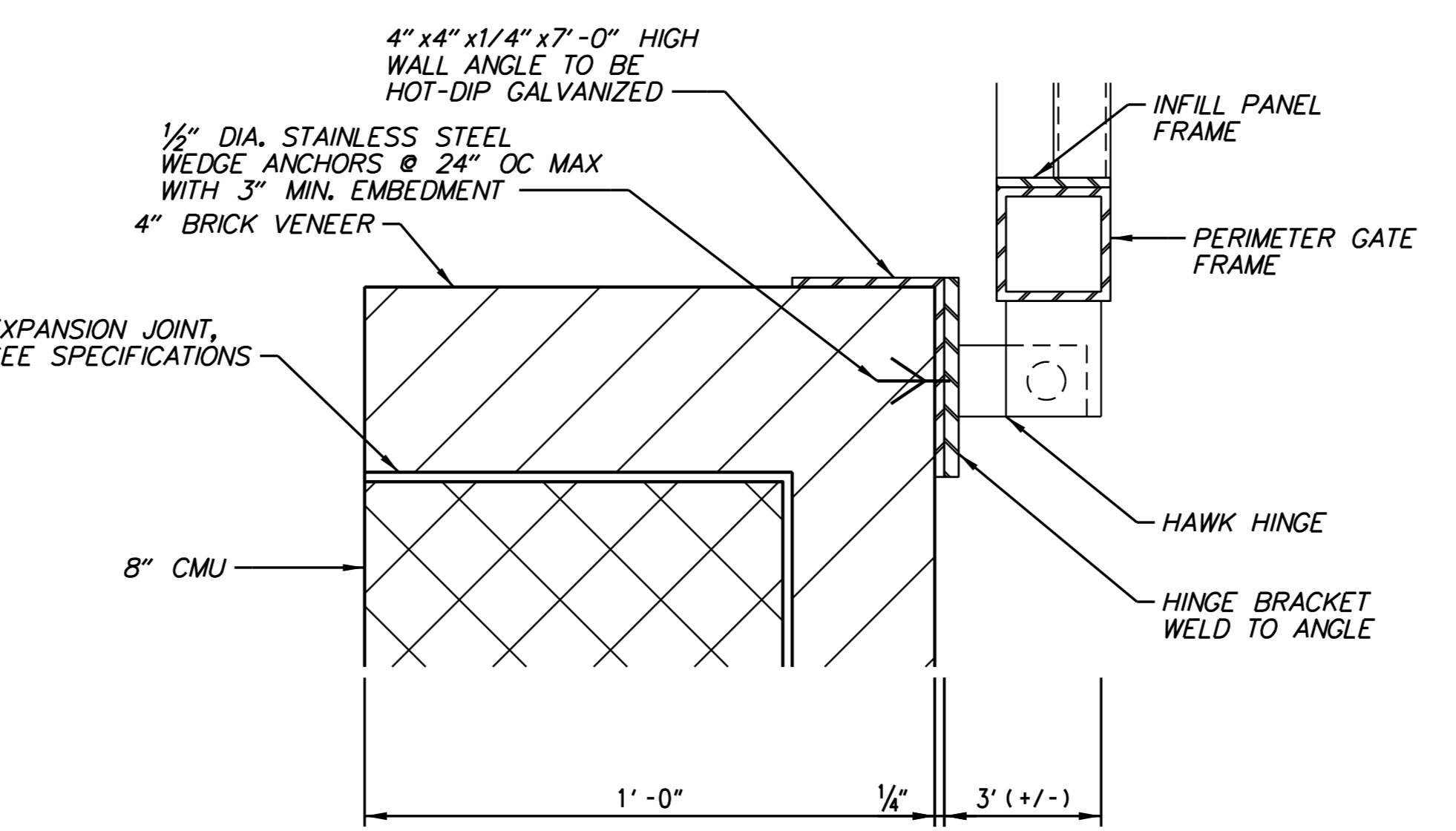
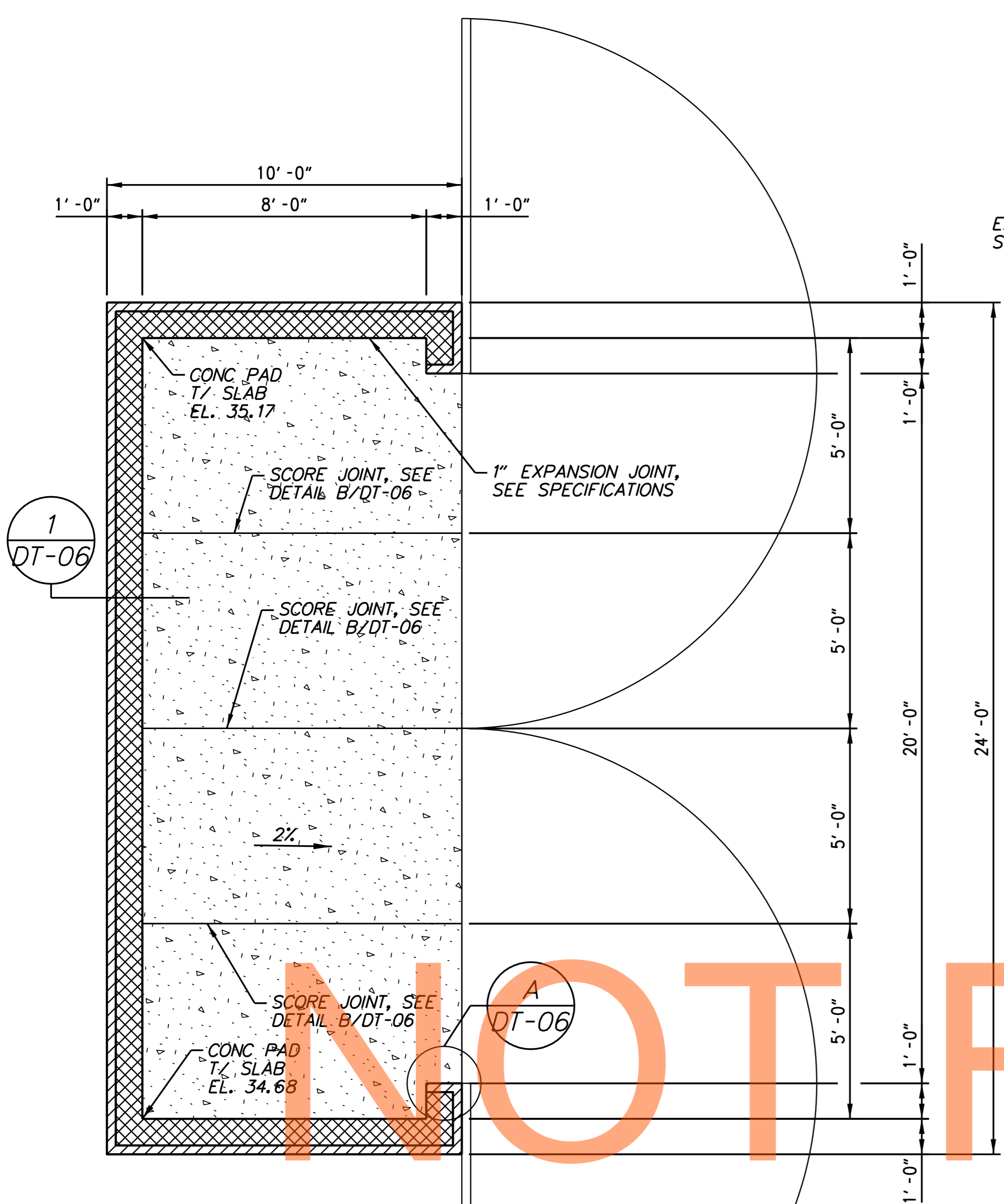
ADDENDUMS / REVISIONS	

**US 13 & PORT PENN RD
INTERSECTION**

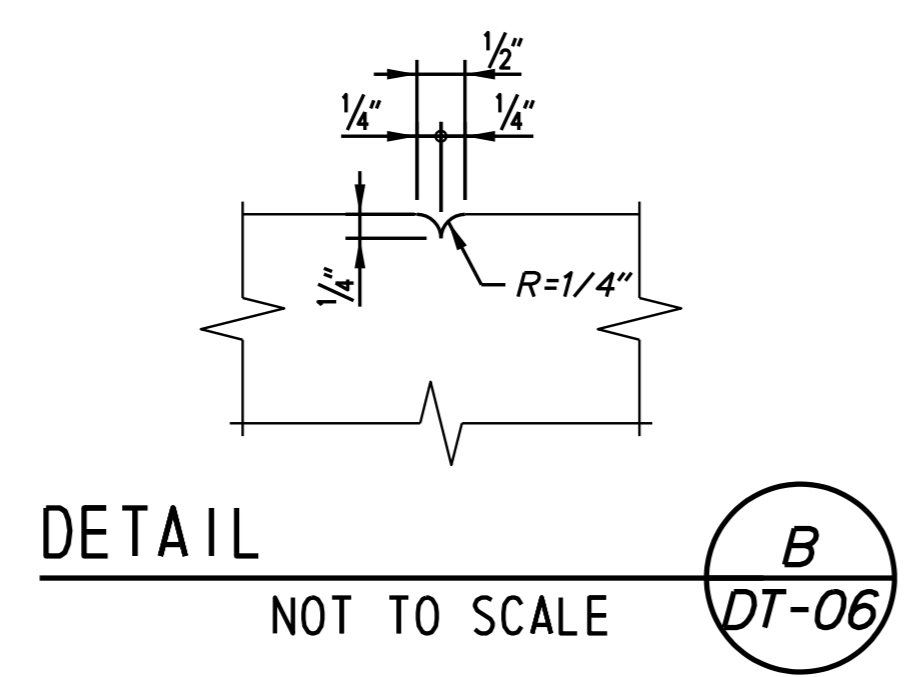
CONTRACT	BRIDGE NO.
T201011302	
COUNTY	DESIGNED BY: B.K.B.
NEW CASTLE	CHECKED BY: W.A.G.

**MEDIAN BARRIER
AT RAMP R
AND SR1 SPLIT - PLAN**

DT-05
SHEET NO.
69
TOTAL SHTS.
179



- NOTES:**
- PAYMENT FOR DUMPSTER ENCLOSURE SHALL BE MADE UNDER ITEM 763659 - DUMPSTER ENCLOSURE.
 - ALL HARDWARE SHALL BE INSTALLED PER MANUFACTURER'S RECOMMENDATIONS.
 - THE CONCRETE PAD SHALL BE CLASS A, 4500 PSI CONCRETE.
 - TOLERANCE ON ALL SCORE JOINT DETAIL DIMENSIONS SHOWN SHALL BE PLUS 1/16", MINUS 0".
 - REFER TO SPECIAL PROVISIONS FOR ADDITIONAL MATERIALS AND CONSTRUCTION REQUIREMENTS.



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ADDENDUMS / REVISIONS	

NOT TO SCALE

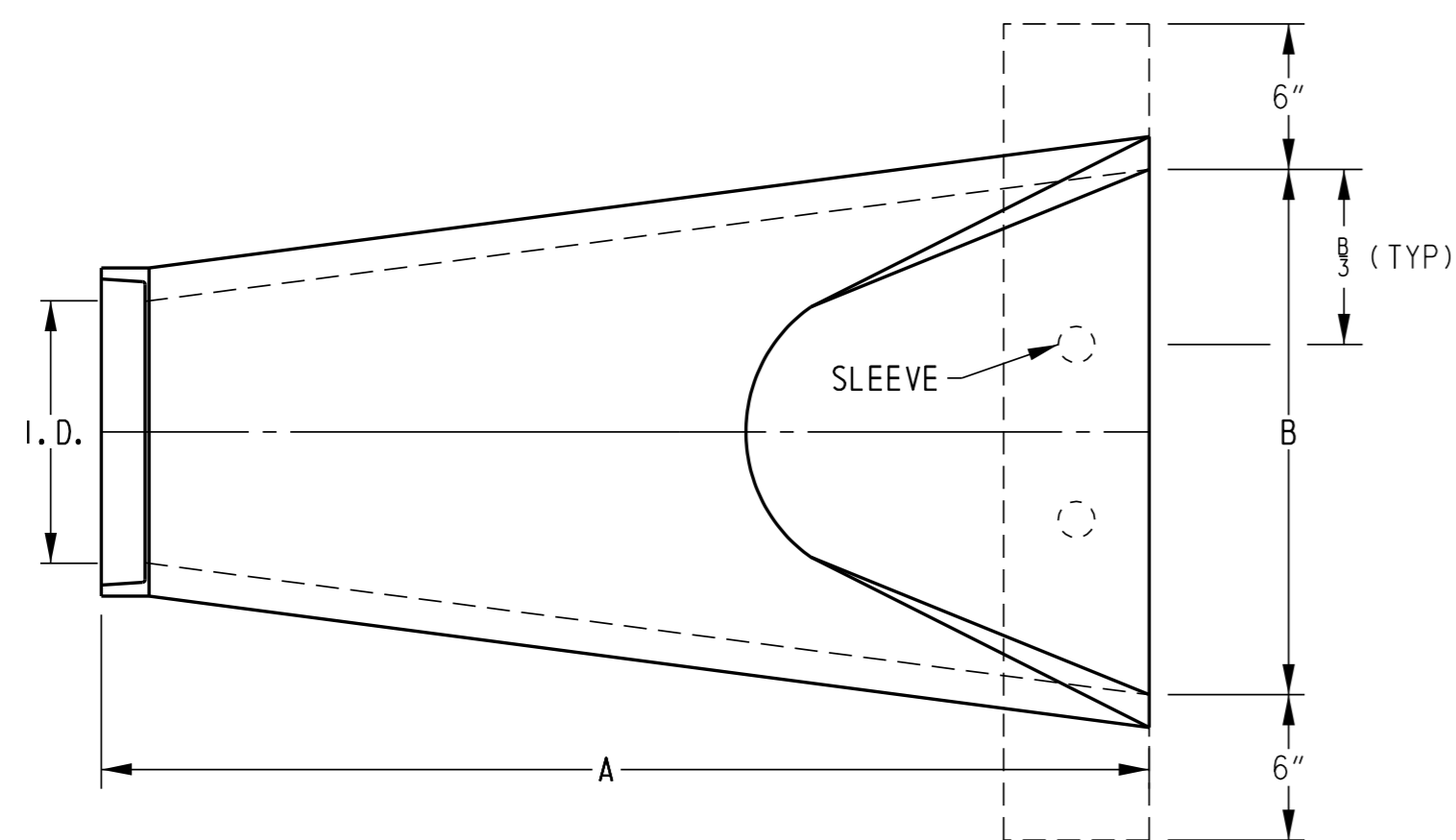
US 13 & PORT PENN RD INTERSECTION

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COUNTY	DESIGNED BY: KAH
NEW CASTLE	CHECKED BY: BRT

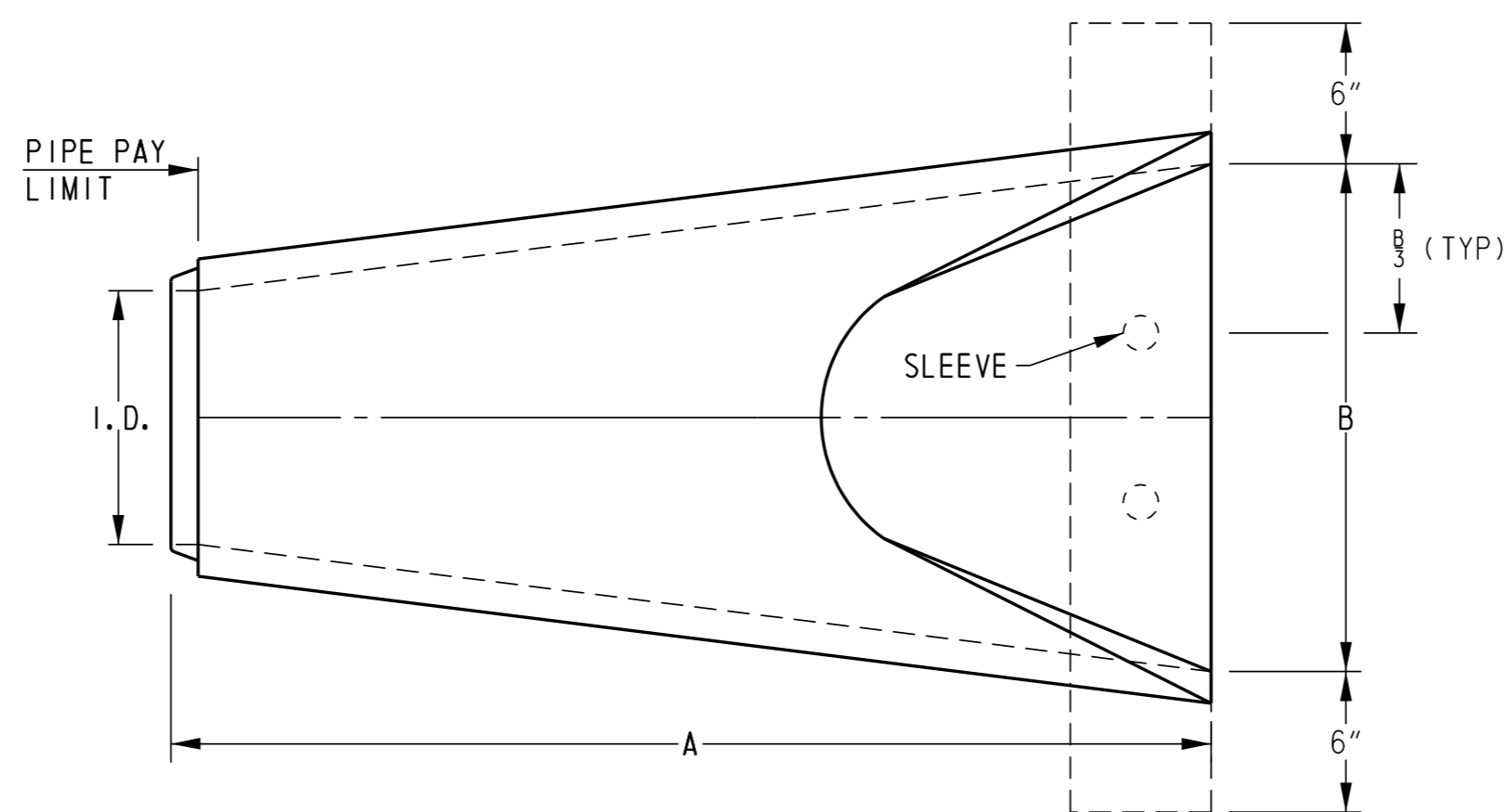
CONSTRUCTION DETAILS

DT-06
SHEET NO.
70
TOTAL SHTS.
179

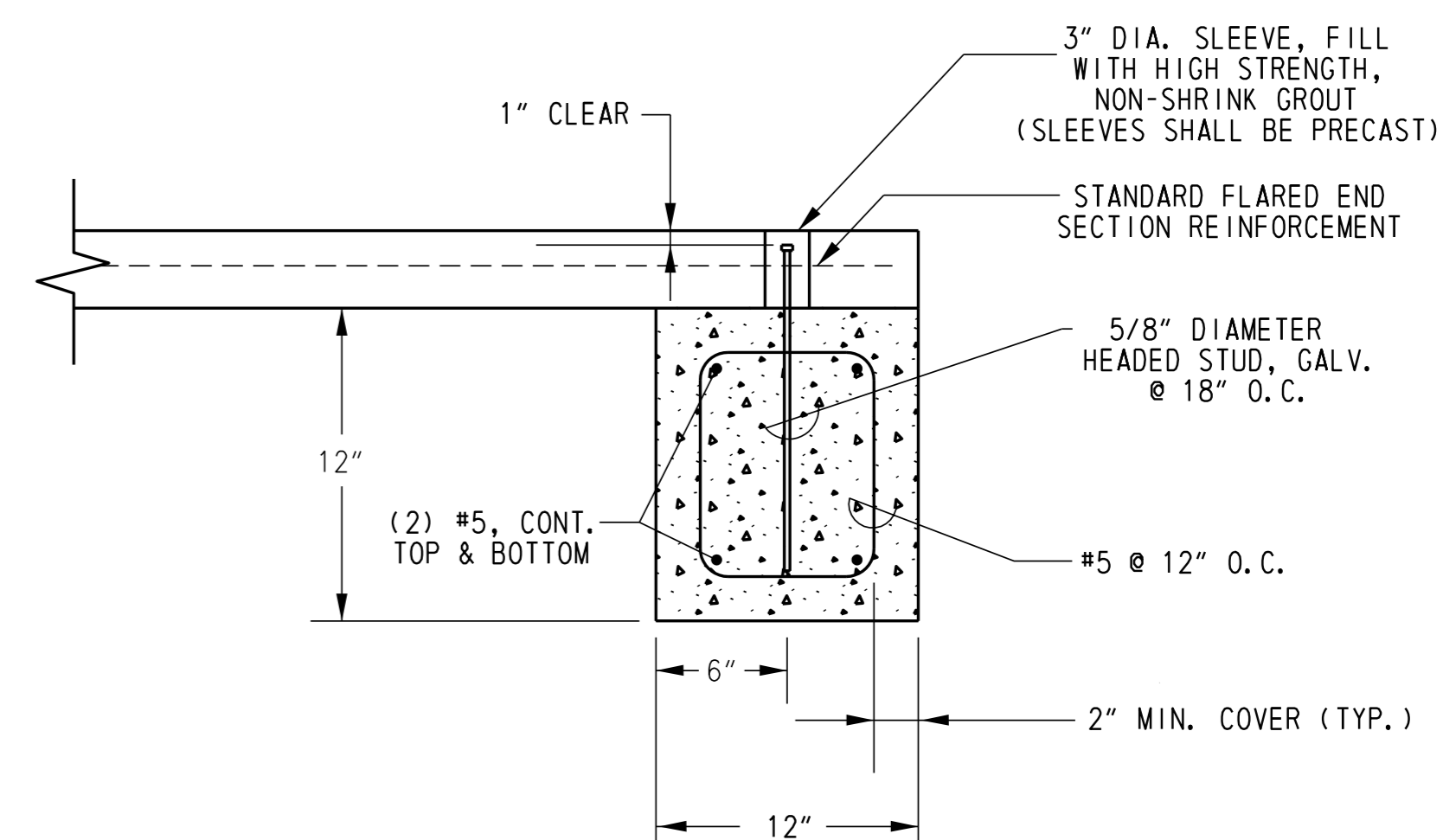
REINFORCED CONCRETE FLARED END SECTION
12" - 33" DIAMETER



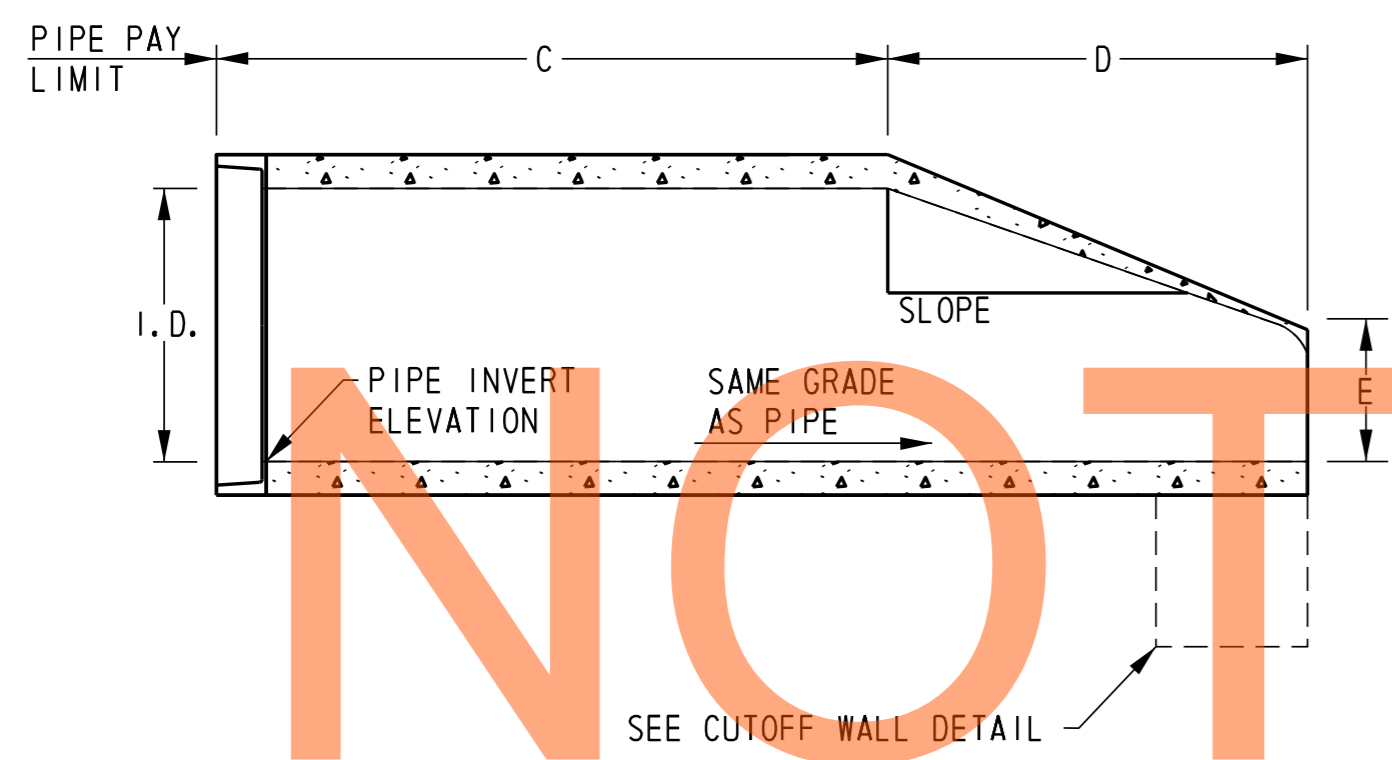
SEE CUTOFF WALL DETAIL
PLAN VIEW



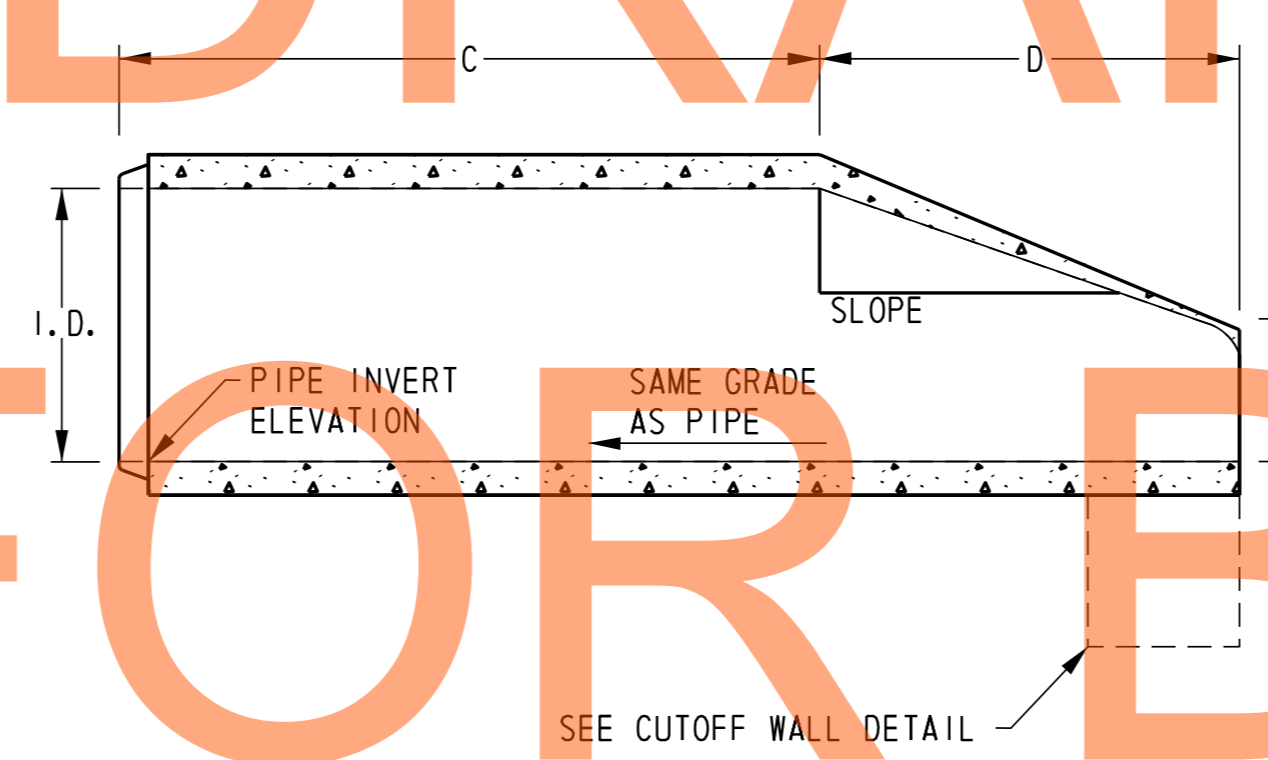
SEE CUTOFF WALL DETAIL
PLAN VIEW



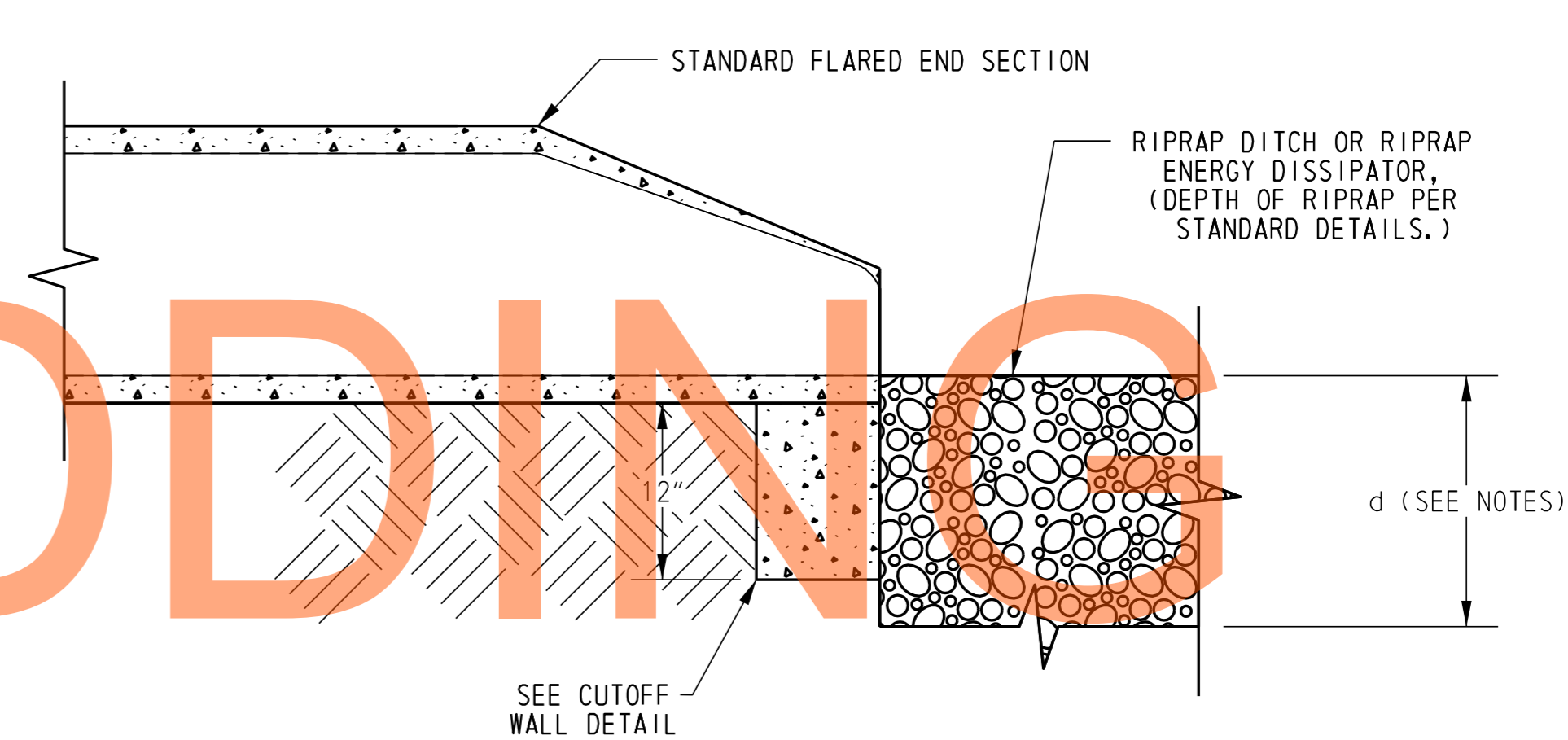
CUTOFF WALL DETAIL
N. T. S.



FLARED END SECTION - OUTLET
N. T. S.



FLARED END SECTION - INLET
N. T. S.



SIDE VIEW WITH OUTLET PROTECTION
N. T. S.

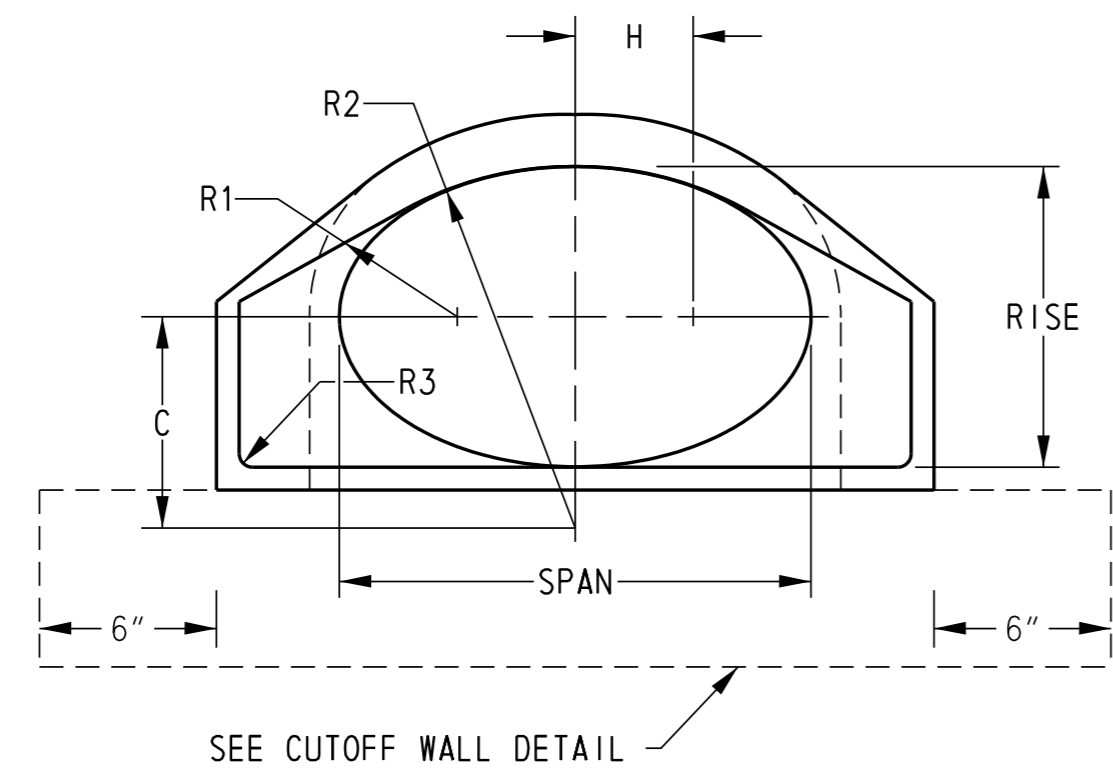
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NOT FOR BIDDING
AUGUST 2015

PIPE I.D.	SLOPE	WALL	A (INCHES)	B (INCHES)	C (INCHES)	D (INCHES)	E (INCHES)
12	3:1	2	69	24	48	21	5
15	3:1	2 1/4	73	30	46	27	6
18	3:1	2 1/2	73	36	46	27	9
21	3:1	2 3/4	74	42	38	36	9
24	3:1	3	72 1/2	48	29	43 1/2	9 1/2
27	3:1	3 1/4	75	54	25 1/2	49 1/2	10 1/2
30	3:1	3 1/2	73 3/4	60	19 3/4	54	12
33	3:1	3 3/4	81	66	26	55	14

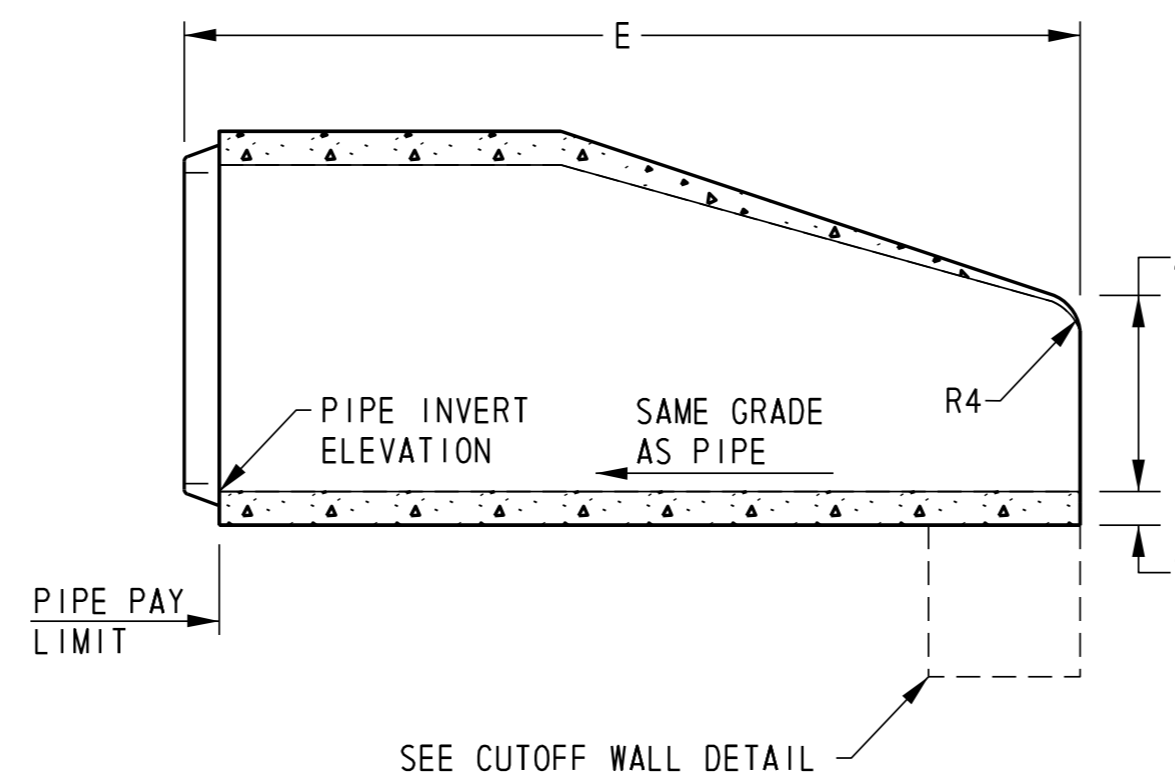
NOTES:

- FLARED END SECTIONS SHALL BE MANUFACTURED TO ASTM C-76 AND AASHTO M-170 WITH CLASS III REINFORCEMENT.
- FLARED END SECTIONS SHALL BE BEDDED IN ACCORDANCE WITH DELDOT STANDARD SPECIFICATION 612, REINFORCED CONCRETE PIPE.
- FLARED END SECTIONS 27 INCHES AND LARGER SHALL INCLUDE A 12 INCH WIDE CUTOFF WALL CONSTRUCTED AS SHOWN. CUTOFF WALL MAY BE CAST-IN-PLACE OR PRECAST CLASS B CONCRETE. ALL COSTS FOR THE CUTOFF WALL SHALL BE INCIDENTAL TO THE FLARED END SECTION.
- DEPTH OF RIPRAP (d) PER STANDARD DETAILS.

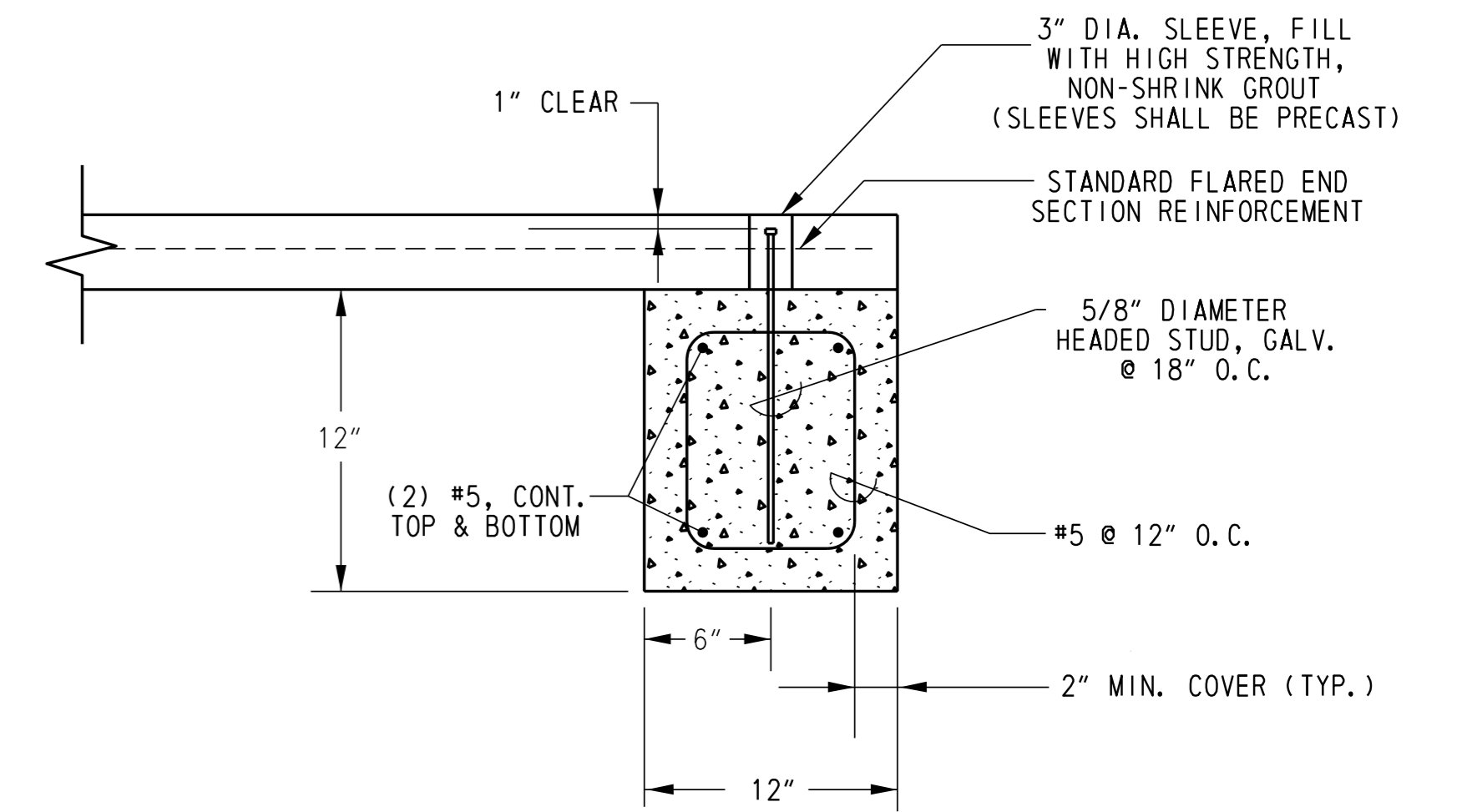
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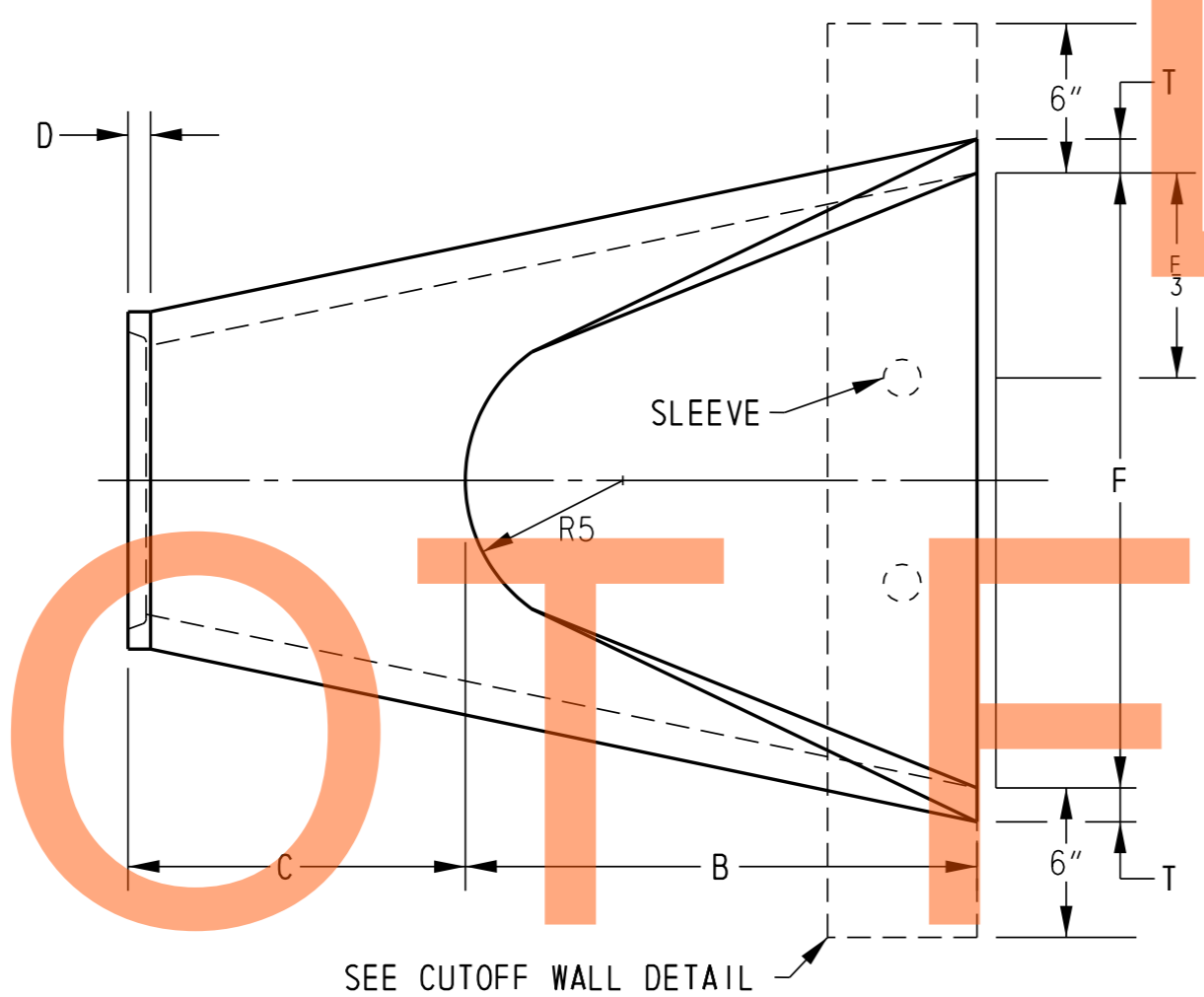
FRONT VIEW



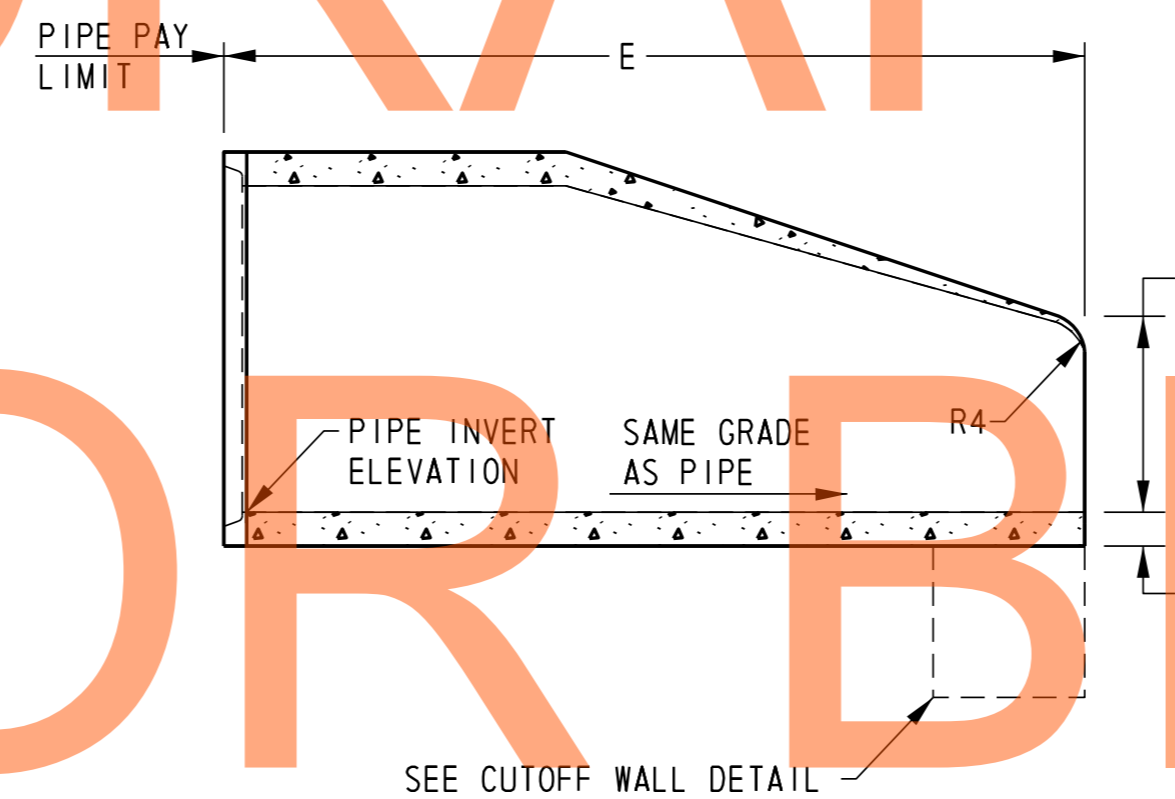
INLET SIDE VIEW



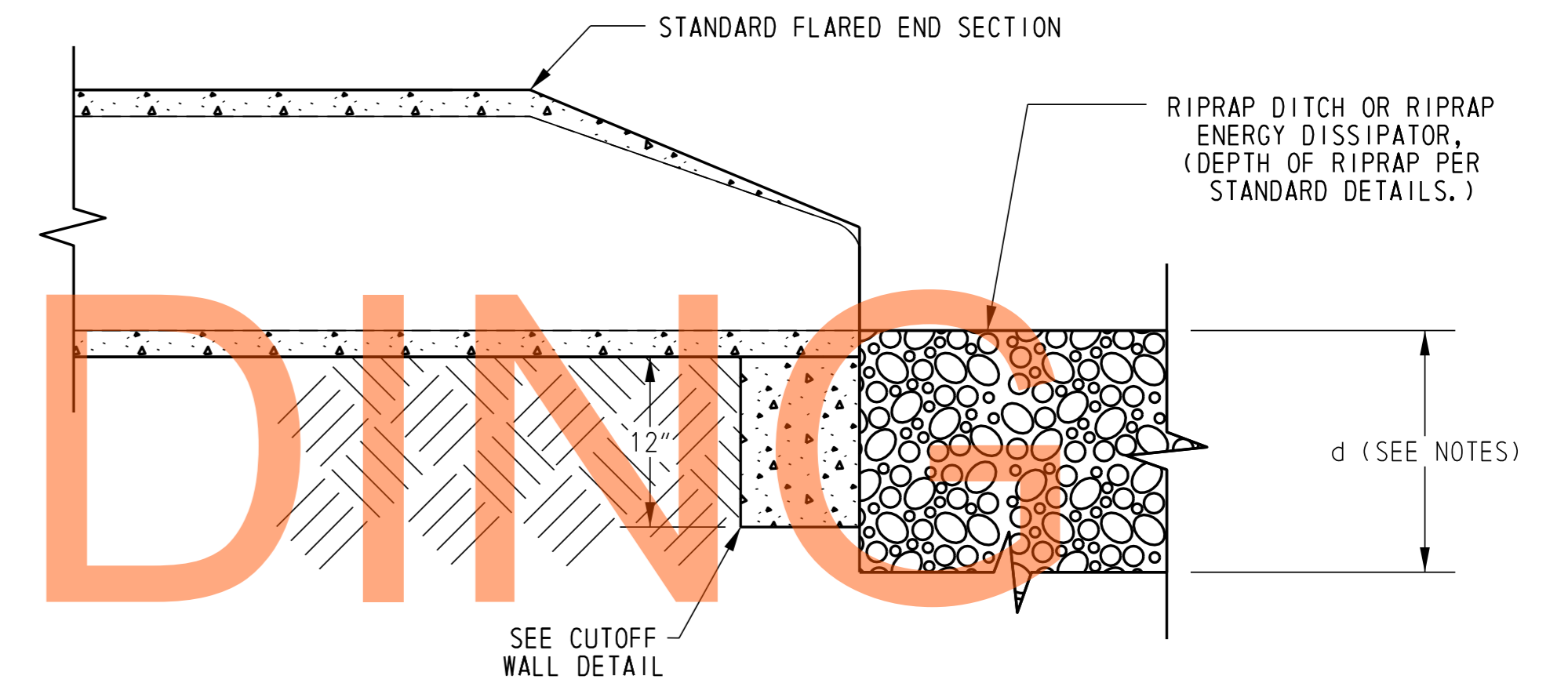
CUTOFF WALL DETAIL
N. T. S.



TOP VIEW



OUTLET SIDE VIEW



SIDE VIEW WITH OUTLET PROTECTION
N. T. S.

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NOT FOR BIDDING

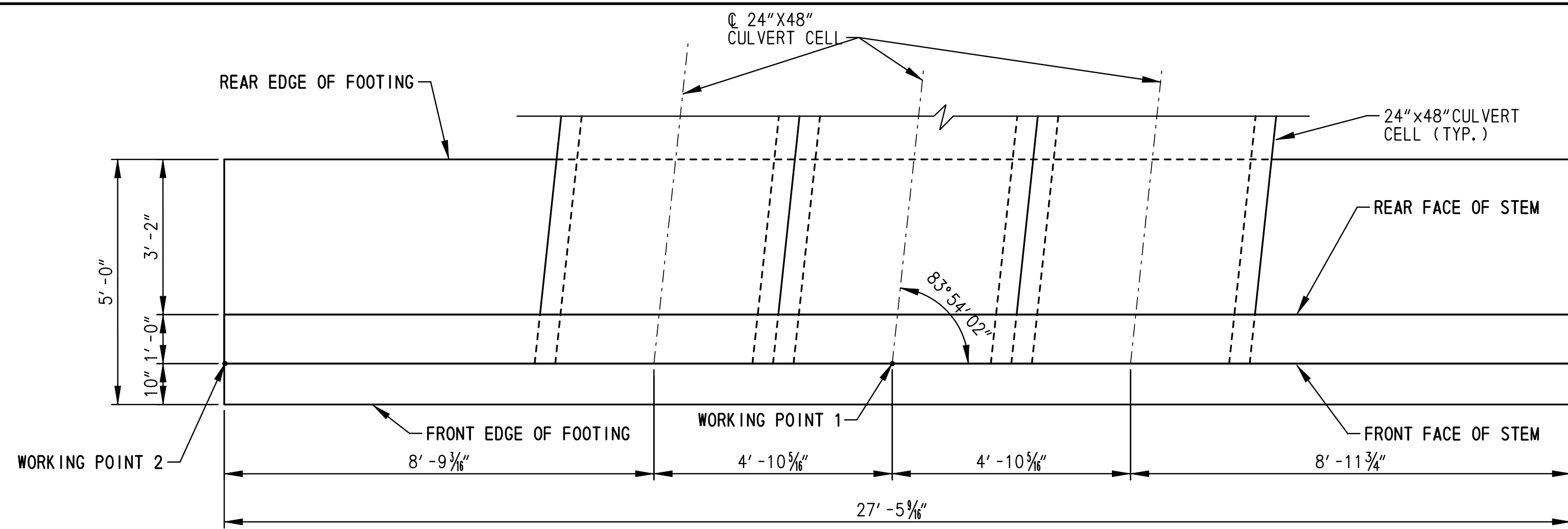
FLARED END SECTION - ELLIPTICAL
N. T. S.

ELLIPTICAL FLARED END SECTIONS TABLE OF DIMENSIONS																		
NOMINAL RISE	EQUIVALENT SPAN	EQUIVALENT DIA.	ACTUAL		T (INCHES)	A (INCHES)	B	C	D (INCHES)	E	F (INCHES)	G (INCHES)	H (INCHES)	R1 (INCHES)	R2 (INCHES)	R3 (INCHES)	R4 (INCHES)	R5 (INCHES)
			RISE	SPAN														
14	23	18	14 5/8	22 7/8	2 3/4	6	2'-2"	3'-11"	2	6'-1"	36	12 25/32	5 11/32	8 27/32	20 11/16	1 1/2	3	12
19	30	24	19 1/8	30 1/8	3 1/4	9	2'-7"	3'-6"	2	6'-1"	48	16 11/16	6 27/32	11 15/32	29 1/2	1 1/2	3	14
22	34	27	21 9/16	34	3 1/2	10 1/2	2'-9"	3'-4"	2 1/4	6'-1"	54	18 3/4	7 3/4	12 3/4	33 1/32	1 1/2	3	14 1/2
24	38	30	24	37 7/8	3 3/4	12	4'-6"	1'-6"	2 1/2	6'-0"	60	20 13/16	8 11/16	14	36 9/16	1 1/2	3	15
27	42	33	26 23/32	41 15/16	4 1/2	11	5'-3"	2'-9"	3	8'-0"	72	24 31/32	10 5/16	16 13/16	43 7/8	1 1/2	4	18

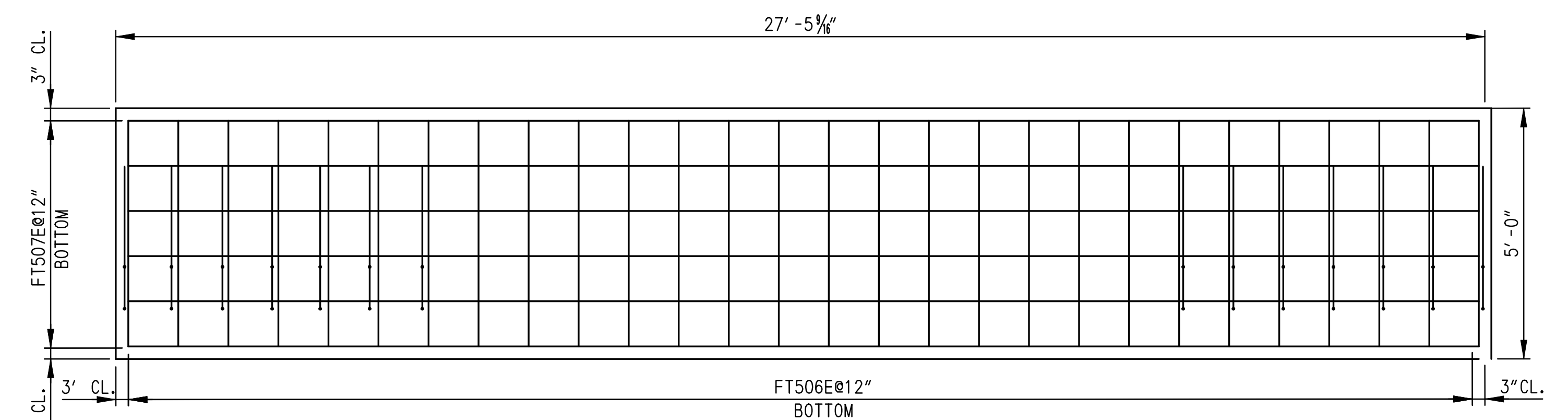
NOTES:

- FLARED END SECTIONS SHALL BE MANUFACTURED TO ASTM C-76 AND AASHTO M-170 WITH CLASS III REINFORCEMENT.
- FLARED END SECTIONS SHALL BE BEDDED IN ACCORDANCE WITH DELDOT STANDARD SPECIFICATION 612, REINFORCED CONCRETE PIPE.
- FLARED END SECTIONS WITH A RISE OF 27 INCHES AND LARGER SHALL INCLUDE A 12 INCH WIDE CUTOFF WALL CONSTRUCTED AS SHOWN. CUTOFF WALL MAY BE CAST-IN-PLACE OR PRECAST CLASS B CONCRETE. ALL COSTS FOR THE CUTOFF WALL SHALL BE INCIDENTAL TO THE FLARED END SECTION.
- DEPTH OF RIPRAP (d) PER STANDARD DETAILS.

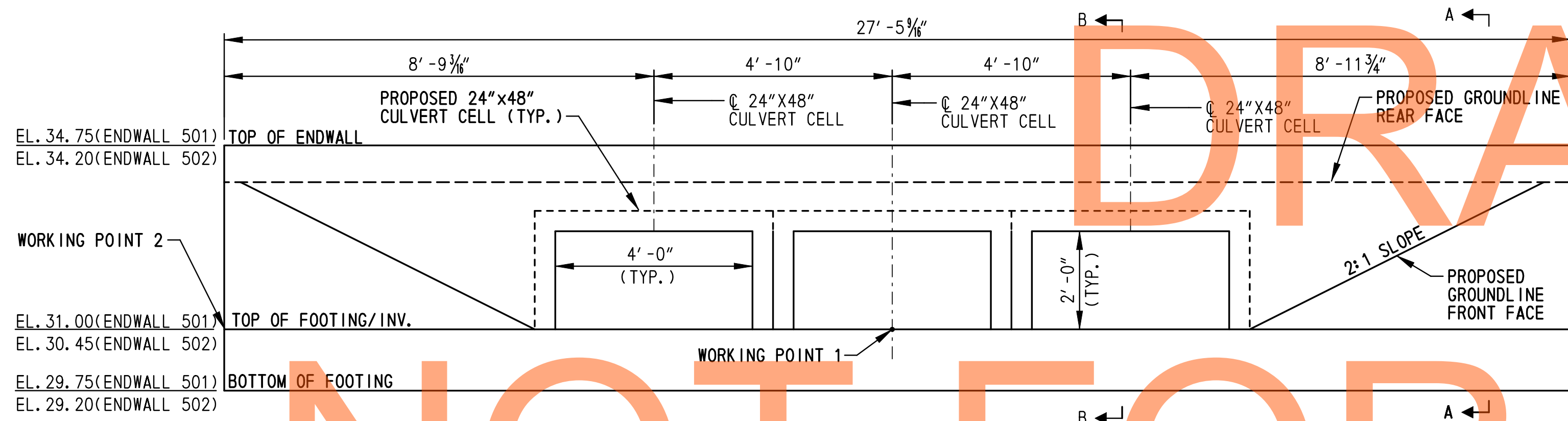
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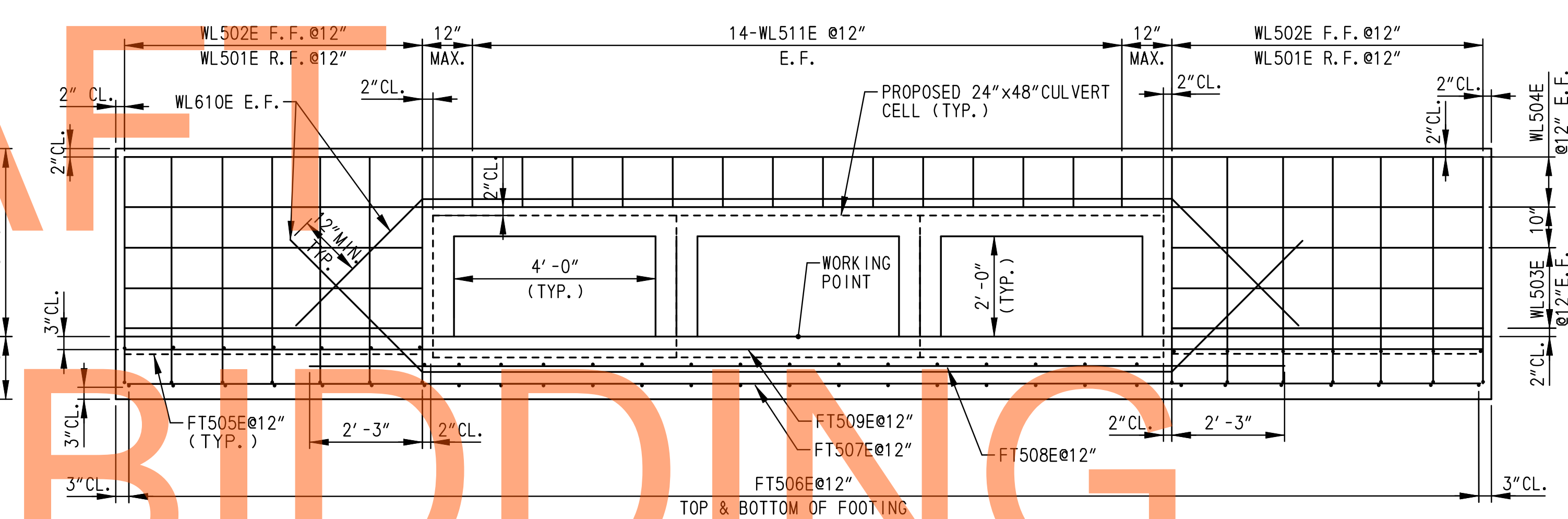
ENDWALL NO. 501 - NO. 502 - PLAN
SCALE: 1/2"=1'-0"



ENDWALL NO. 501 - NO. 502 - FOOTING REINFORCEMENT PLAN
SCALE: 1/2"=1'-0"



ENDWALL NO. 501 - NO. 502 - ELEVATION
SCALE: 1/2"=1'-0"



ENDWALL NO. 501 - NO. 502 - REINFORCEMENT ELEVATION
SCALE: 1/2"=1'-0"

EW502 WORKING POINT COORDINATES

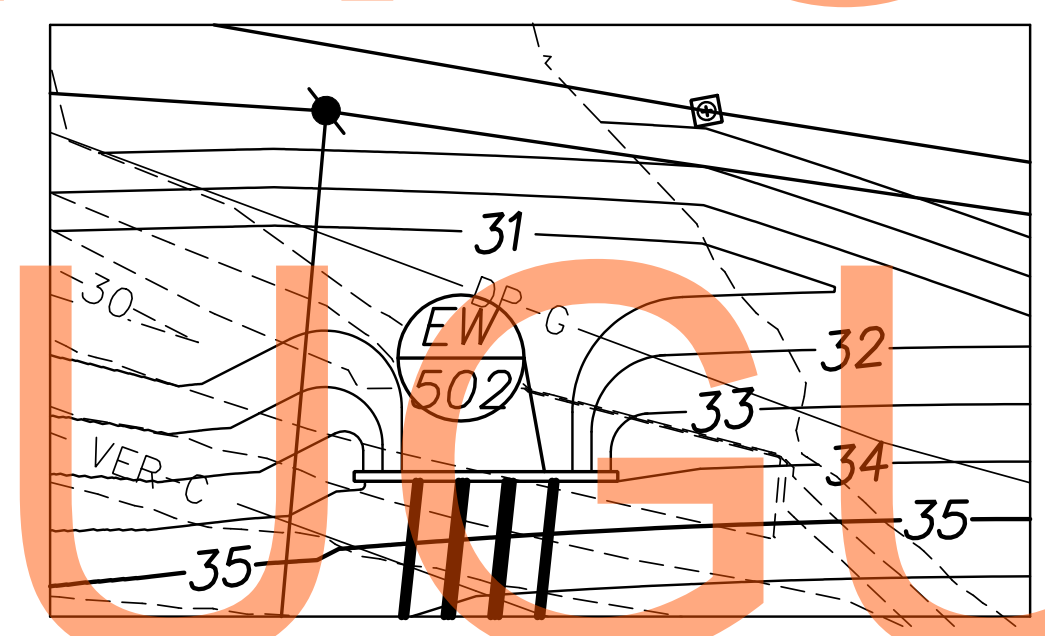
WORKING POINT	NORTHING	EASTING
WORKING POINT-1	555458.8156	590866.5220
WORKING POINT-2	555456.2264	590879.8980

EW501 WORKING POINT COORDINATES

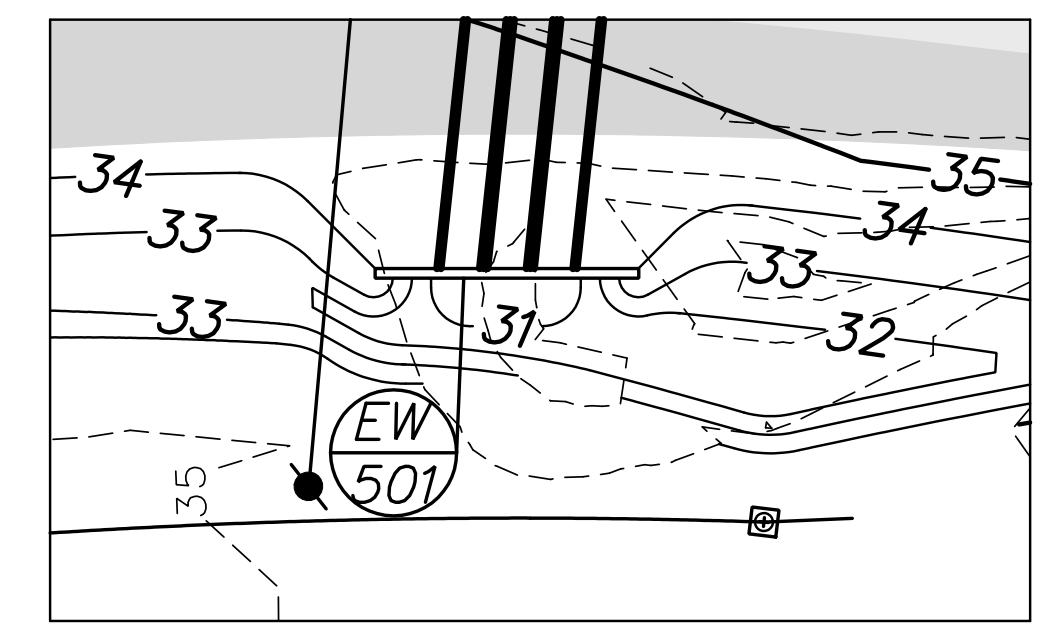
WORKING POINT	NORTHING	EASTING
WORKING POINT-1	555380.0247	590842.3506
WORKING POINT-2	555382.6114	590828.9878

ENDWALL NO. 501 - NO. 502 NOTES:

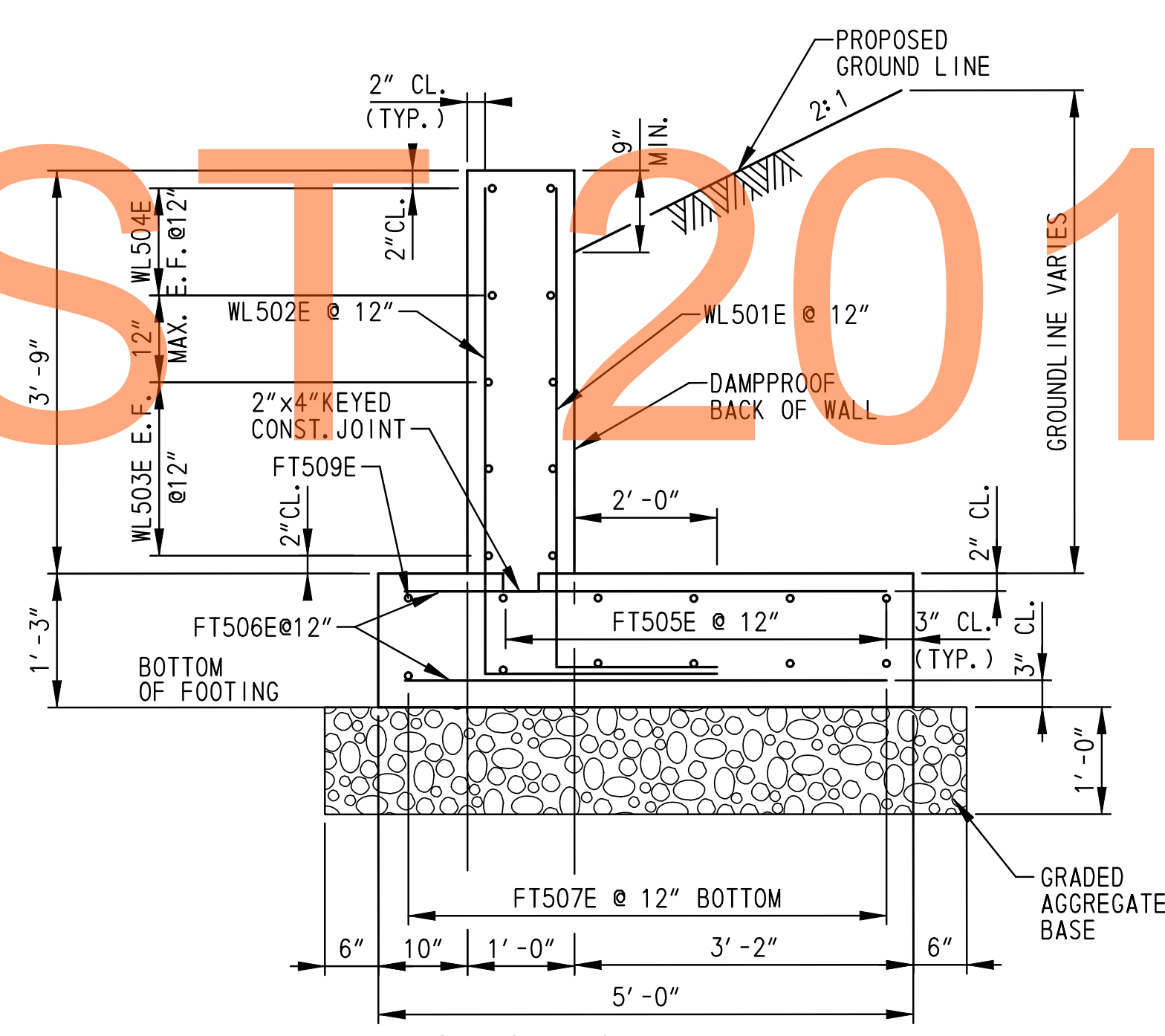
1. MAXIMUM FACTORED BEARING RESISTANCE FOR THE ENDWALL IS 2 KSF.
2. KEYS ARE NOMINAL SIZE.
3. CONCRETE SHALL BE CLASS A, 4500 PSI.
4. RIPRAP IN FRONT OF WALL NOT SHOWN FOR CLARITY.
5. ENDWALL NO. 203 SHALL BE CAST-IN-PLACE. NO PRECAST ALTERNATIVE WILL BE ALLOWED.
6. E. F. = EACH FACE
F. F. = FRONT FACE
R. F. = REAR FACE
E. S. = EQUAL SPACING.
7. SEE REINFORCING BAR LIST ON DRAWING DT-10.



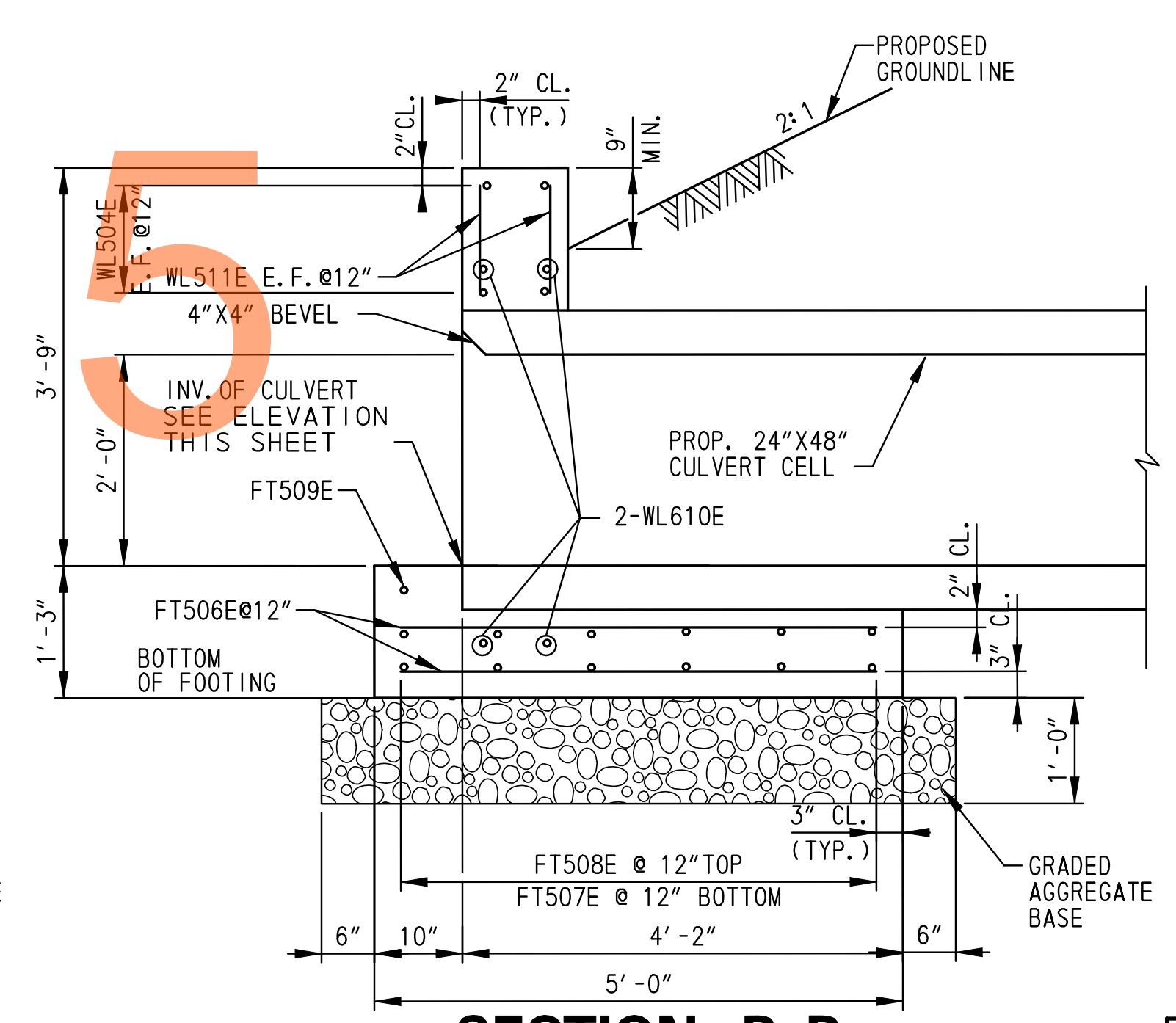
ENDWALL NO. 502 - GRADING
SCALE: 1"=20'



ENDWALL NO. 501 - GRADING
SCALE: 1"=20'



SECTION A-A
SCALE: 3/4"=1'-0"



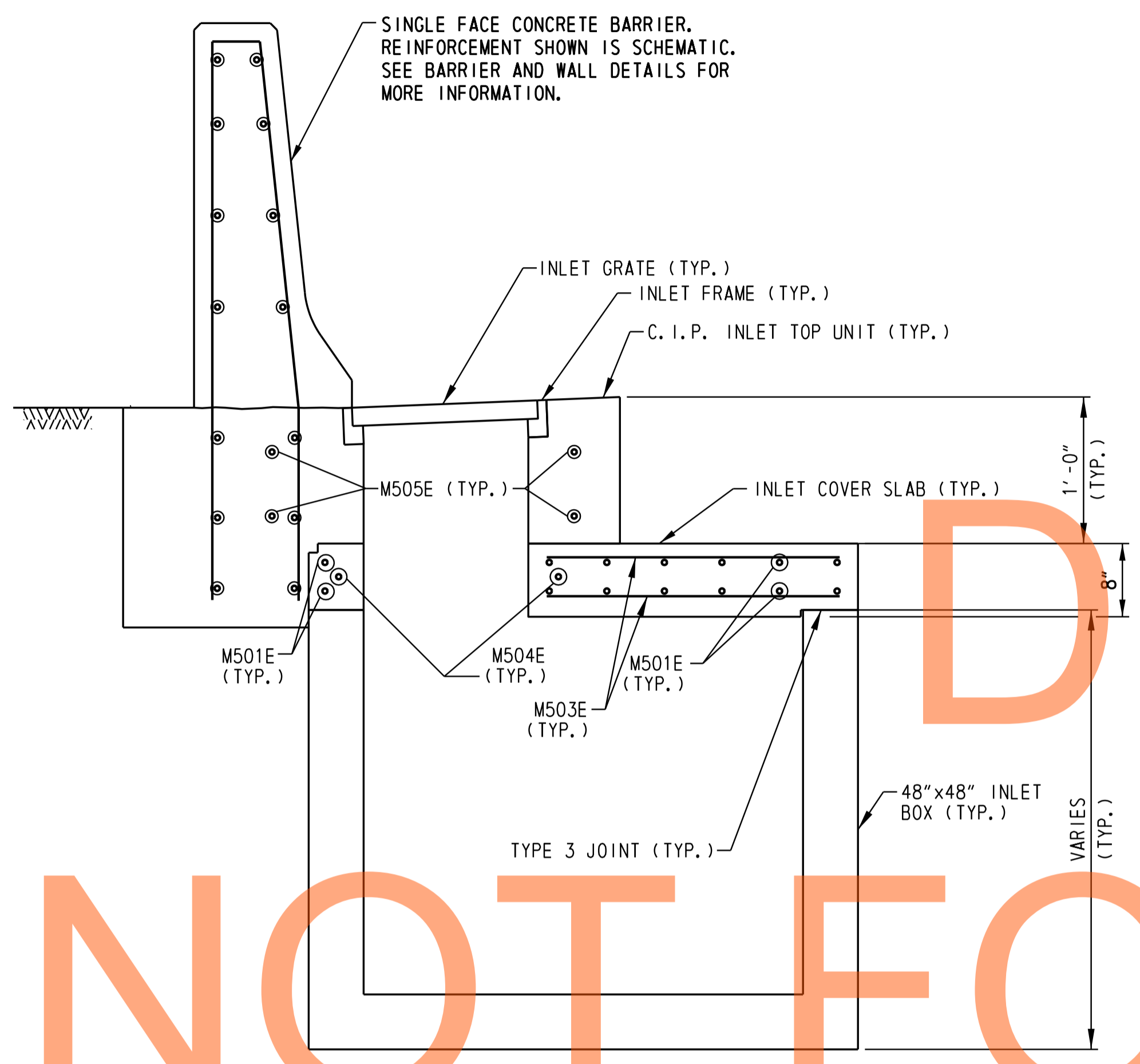
SECTION B-B
SCALE: 3/4"=1'-0"

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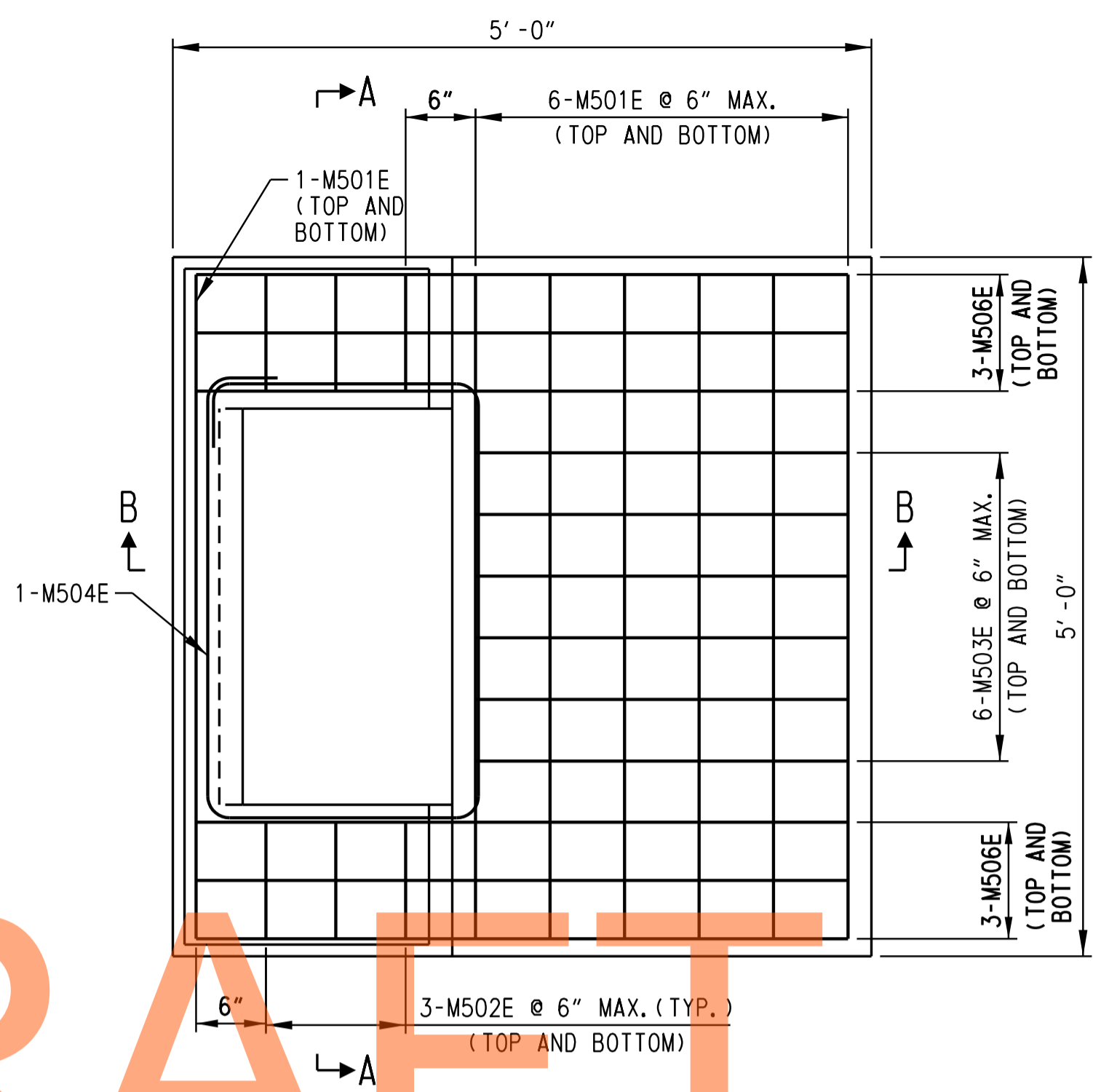
ADDENDUMS / REVISIONS	

CONTRACT T201011302	BRIDGE NO.
COUNTY NEW CASTLE	DESIGNED BY: HQ
	CHECKED BY: JW

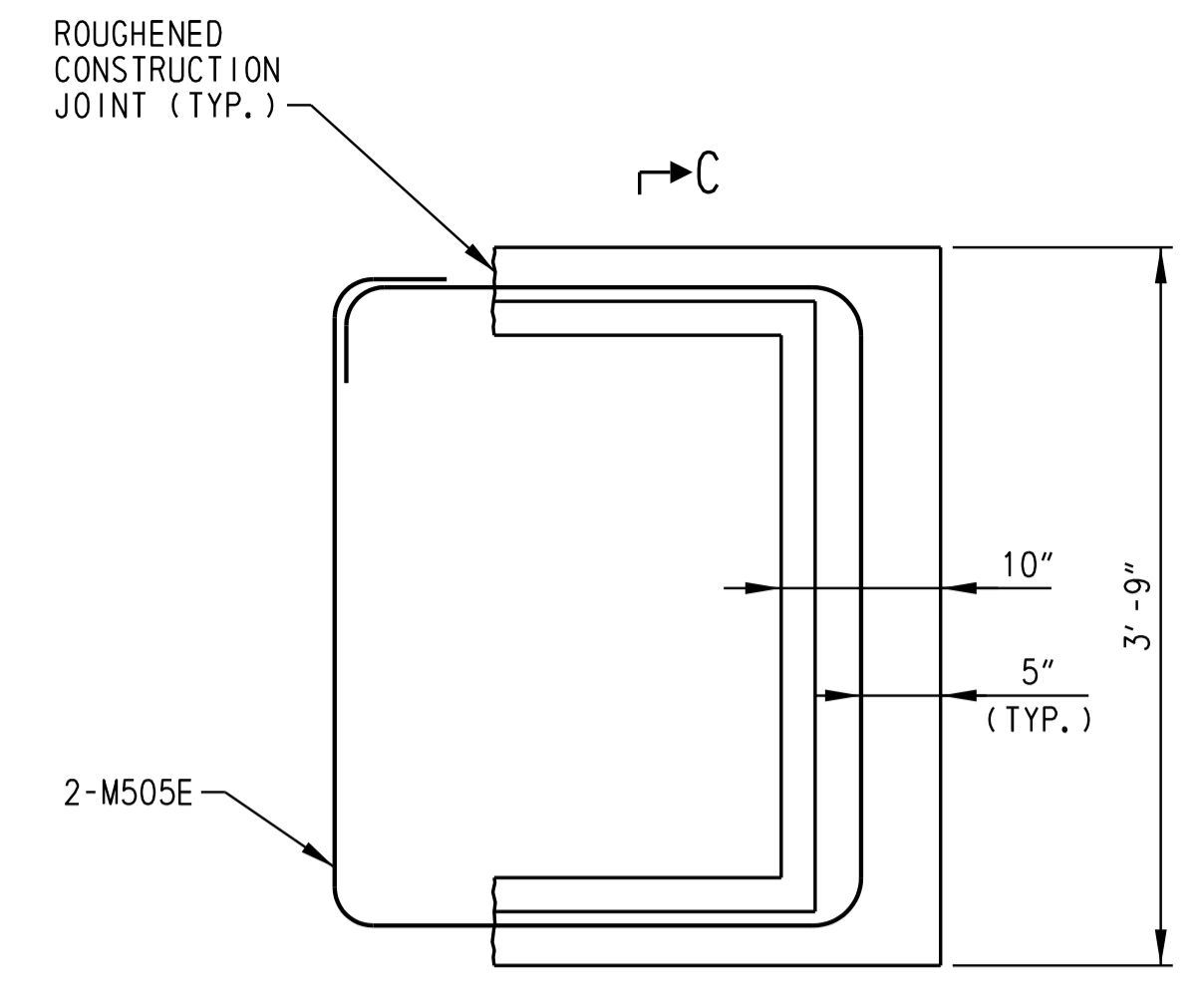
DT-09	SHEET NO. 73
	TOTAL SHTS. 179



48" X 48" DRAINAGE INLET ASSEMBLY
SCALE: 1" = 1' - 0"



INLET COVER SLAB DETAIL
SCALE: 1" = 1' - 0"



INLET TOP UNIT DETAIL
SCALE: 1" = 1' - 0"

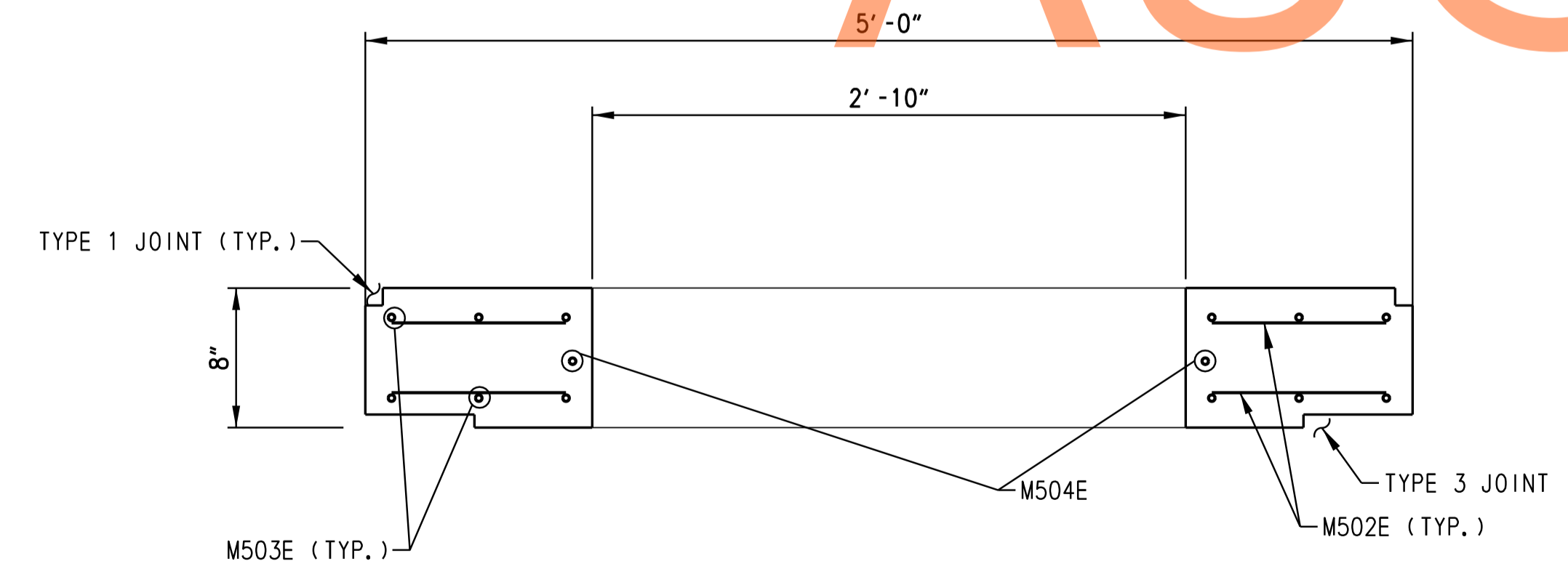
NOTES:

1. PAYMENT FOR DRAINAGE INLETS INCLUDING BOXES, GRATES, TOP UNITS, COVER SLABS, MODIFICATIONS TO CONCRETE MEDIAN BARRIER, JOINT SEALANT AND ALL WORK ASSOCIATED WITH DRAINAGE INLET ASSEMBLIES WILL BE MADE UNDER ITEM NO. 708053 - DRAINAGE INLET, 48" X 48".
2. FOR DRAINAGE INLET ASSEMBLY LOCATIONS SEE CONSTRUCTION PLANS.
3. SEE STANDARD NO. D-4 FOR INLET BOX DETAILS. SEE STANDARD NO. D-5 FOR GRATE, FRAME, AND JOINT DETAILS.
4. MINIMUM REINFORCEMENT COVER SHALL BE 1 1/2".
5. HOT POURED JOINT SEALANT SHALL BE USED TO FILL THE GAP BETWEEN THE DRAINAGE INLET FRAMES.

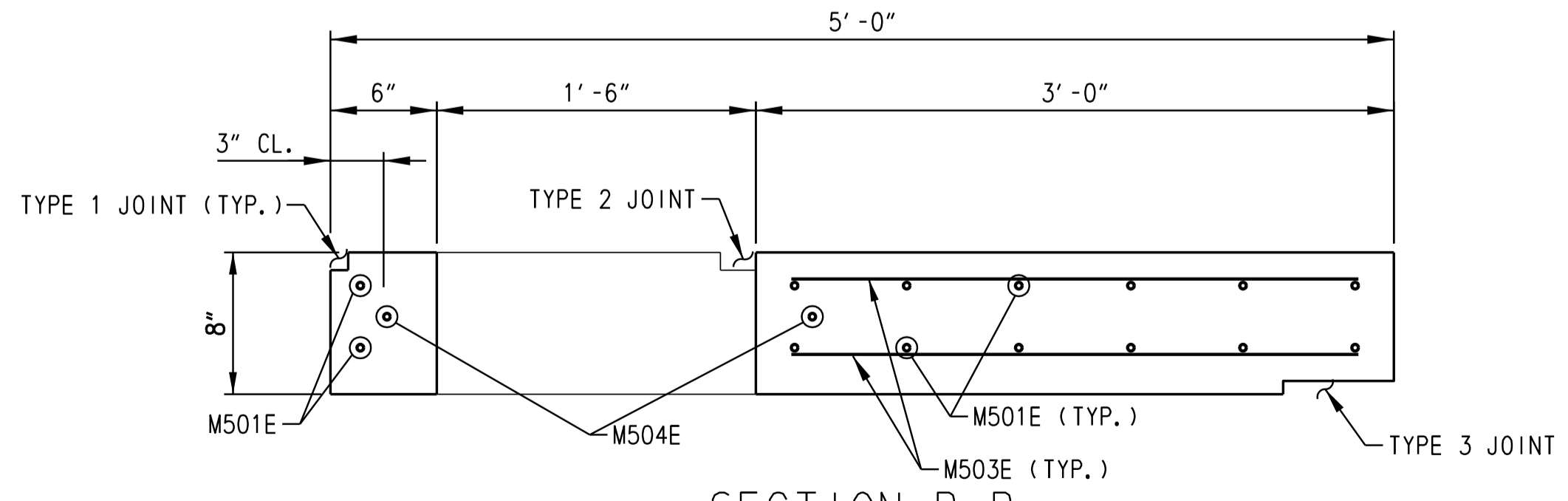
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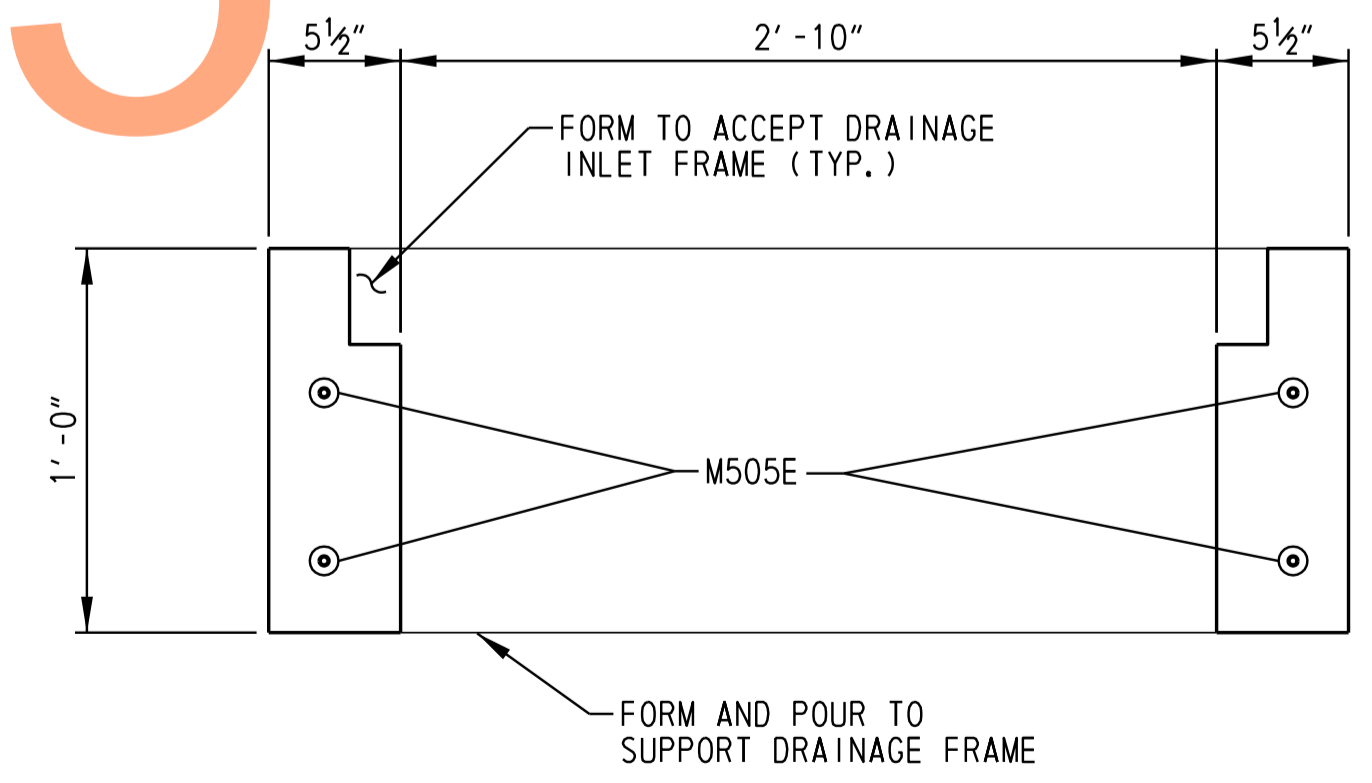
AUGUST 2015



SECTION A-A
SCALE: 1 1/2" = 1' - 0"



SECTION B-B
SCALE: 1 1/2" = 1' - 0"



SECTION C-C
SCALE: 1 1/2" = 1' - 0"

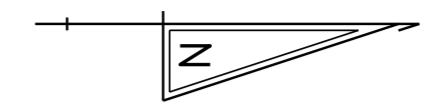
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ADDENDUMS / REVISIONS	

CONTRACT T201011302	BRIDGE NO.
COUNTY NEW CASTLE	DESIGNED BY: K.M.K.
	CHECKED BY: B.K.B.

SR 1 NORTHBOUND

CONTRACTOR TO COORDINATE WITH ESNG TO ENSURE SUFFICIENT AREA PROVIDED FOR UTILITY CONSTRUCTION, INCLUDING, DIRECTIONAL DRILLING AND ASSOCIATED MATERIAL LAYDOWN. CONTRACTOR SHALL ALLOW FOR ADEQUATE ACCESS TO DRILLING LOCATION FROM THE 20' WIDE ACCESS ROAD.



US 13 SOUTHBOUND

US 13 NORTHBOUND

DRAFT
NOT FOR BIDDING
AUGUST 2015

POTENTIAL LAYDOWN AND STOCKPILE AREA

SET ASIDE AREA FOR POTENTIAL FIELD OFFICE (CONTRACT T200911302)

20' WIDE ACCESS ROAD

CONTRACT T200911302 LAYDOWN AND STOCKPILE AREA

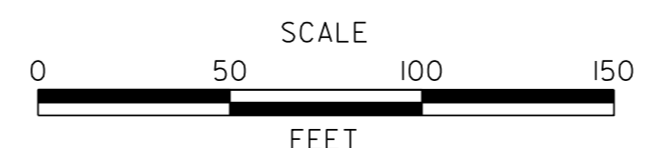
NOTES:

1. ALL AREAS ON THIS PLAN DISTURBED BY THE CONTRACTOR SHALL BE RESTORED TO ORIGINAL GRADES AND CONDITIONS UPON COMPLETION OF THE CONTRACT. TOPSOIL STRIPPING AND TOPSOILING AREAS ON THIS PLAN SHALL BE INCIDENTAL TO THE CONTRACT. SEEDING DISTURBED AREAS ON THIS PLAN SHALL BE MEASURED AND PAID UNDER ITEM 734013 - PERMANENT GRASS SEEDING, DRY GROUND.
2. CONTRACT T200911302 CONTRACTOR SHALL CONSTRUCT AND MAINTAIN STABILIZED CONSTRUCTION ENTRANCE AND ACCESS ROAD TO LAYDOWN AND STOCKPILE AREAS.

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ADDENDUMS / REVISIONS	



US 13 & PORT PENN RD INTERSECTION

CONTRACT	BRIDGE NO.
T201011302	
COUNTY	DESIGNED BY: NSP
NEW CASTLE	CHECKED BY: BRT

ST. GEORGES LAYDOWN AREA

DT-12
SHEET NO.
76
TOTAL SHTS.
179