

BOTH ABUTMENTS ON BEARING S 41°12'10.97" W

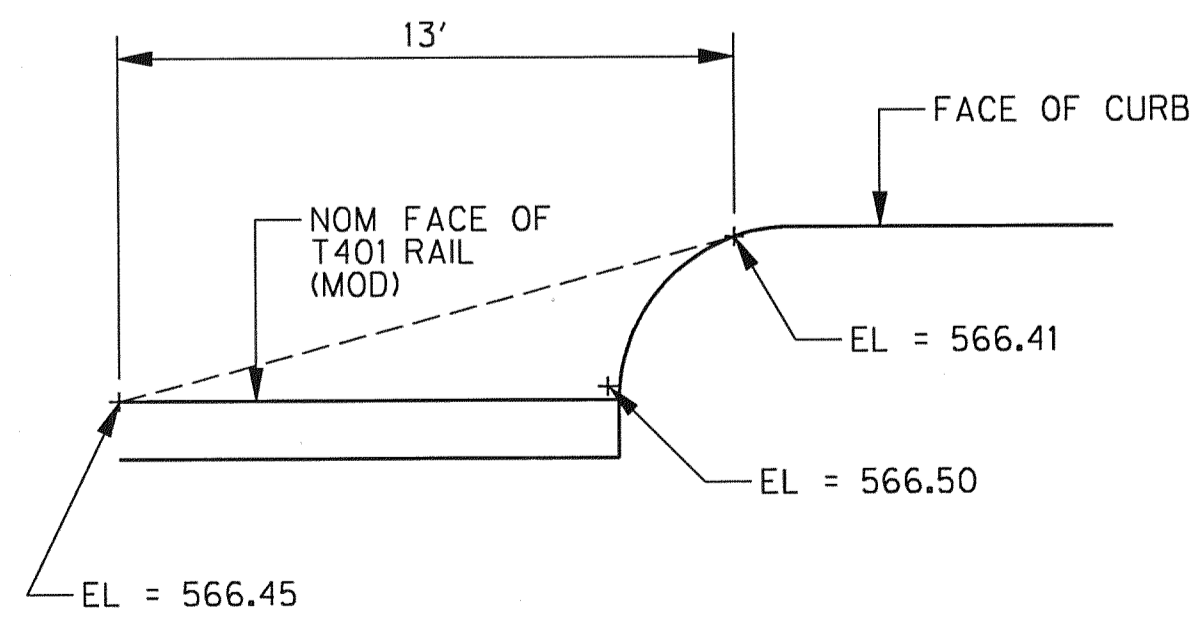
### FARMERS BRANCH CREEK HYDRAULIC DATA

100 YEAR FLOOD (PROPOSED)

Q = 8,944 cfs  
 V = 8.33 fps  
 HW = 554.08'

### SIDEWALK SLOPE TRANSITIONS

- 1 BEGIN TRANSITION STA 23+93.08
- 2 END TRANSITION STA 24+30.58
- 3 BEGIN TRANSITION STA 25+73.42
- 4 END TRANSITION STA 26+10.92



DETAIL A  
SCALE: NTS

### PLAN

SCALE: 1" = 10'-0"

\* - BORING TEST HOLES SHOWN IN APPROXIMATE LOCATIONS.

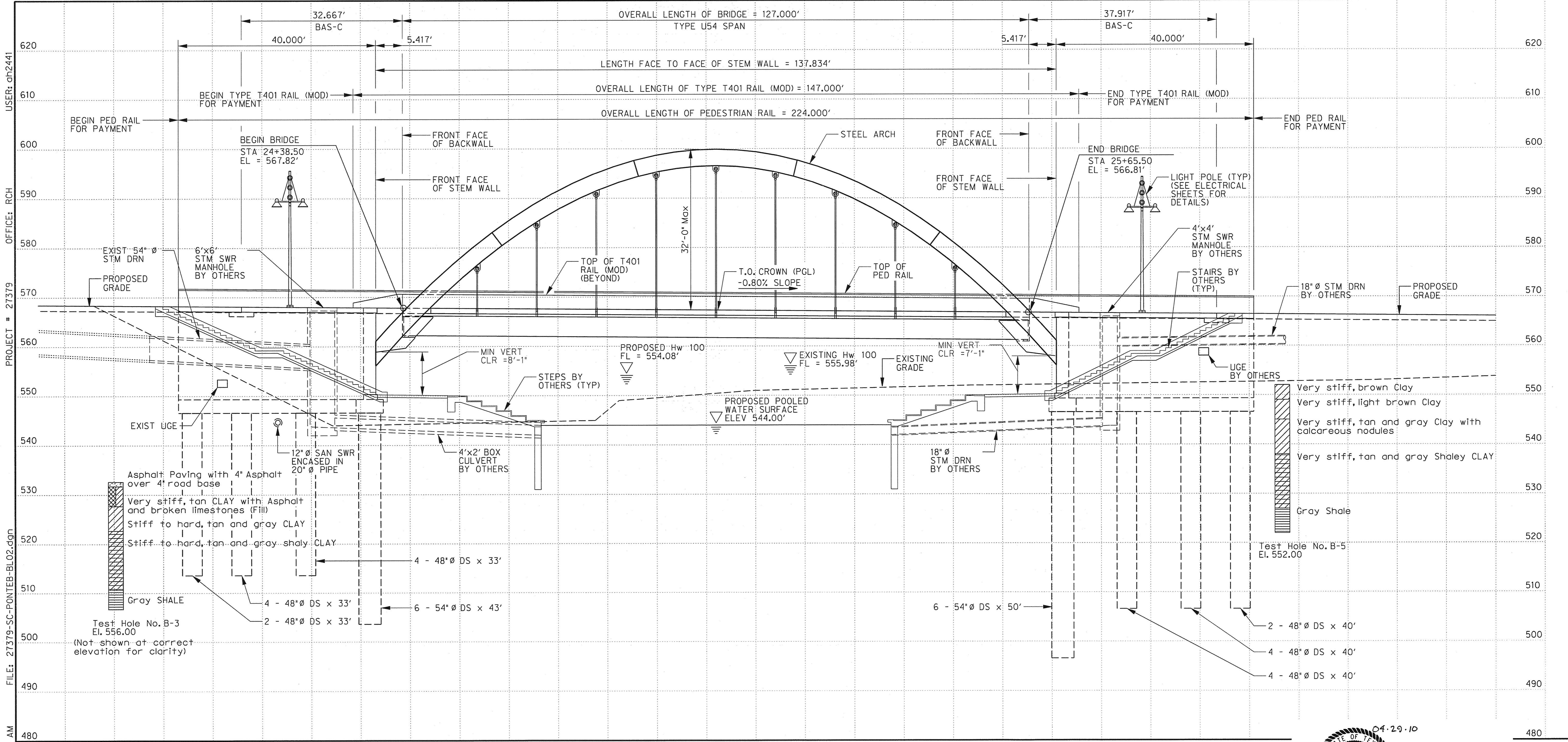
### DESIGN NOTES:

1. BRIDGE DESIGNED FOR HL93 LOADING AND 25 PSF FUTURE OVERLAY PER AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS (2007) AND INTERIM REVISIONS THERETO.
2. CONTRACTOR SHALL LOCATE ALL UTILITIES AND INFORM THE ENGINEER IN WRITING OF ANY CONFLICTS PRIOR TO BEGINNING CONSTRUCTION.
3. FOR BRIDGE ELEVATION AND BORING LOG INFORMATION, SEE SHEET 2 OF 3.
4. FOR TYPICAL SECTION, SEE SHEET 3 OF 3.
5. DESIGN SPEED = 30 MPH
6. ADT = 8,871
7. FUNCTIONAL CLASSIFICATION = LOCAL COLLECTOR STREET
8. STAIRS, RAMPS, AND BOARDWALKS ARE NOT PART OF THIS CONTRACT. SEE CIVIL DRAWINGS FOR DETAILS.
9. CONTRACTOR SHALL EXTEND CARRIER PIPES TO THE OUTSIDE EDGE OF THE SUPPORT SLAB OF EACH BRIDGE APPROACH SLAB AND CAP THEM.



THE SEAL APPEARING ON THIS DOCUMENT WAS AUTHORIZED BY ERIC S. CHRISTENSEN, P.E. #85412 ON 05-19-2010. ALTERATION OF A SEALED DOCUMENT WITHOUT PROPER NOTIFICATION TO THE RESPONSIBLE ENGINEER IS AN OFFENSE UNDER THE TEXAS ENGINEERING PRACTICE ACT. THE RECORD COPY OF THIS DRAWING IS ON FILE AT THE OFFICES OF HALFF ASSOCIATES, 1201 NORTH BOWSER ROAD, RICHARDSON, TEXAS, 75081, TBPB FIRM #F-312.

Addendum #2		ESC	05/19/10
NO.	REVISION	BY	DATE
<b>Advisors TOWN OF ADDISON DALLAS COUNTY, TEXAS</b>			
<b>VITRUVIAN PARK BRIDGES PONTE AVENUE</b>			
<b>BRIDGE LAYOUT - PLAN</b>			
<b>HALFF</b> 1201 NORTH BOWSER ROAD, RICHARDSON, TEXAS 75081-2275 TEL. (214) 348-6200 FAX (214) 730-0095			
PROJECT	DESIGN	DRAWN	DATE
27379	ESC	AHH	APRIL 2010
FILE	SHEET		
-	S1-01		



USER: ah2441  
OFFICE: RCH  
PROJECT #: 27379  
FILE: 27379-SC-PONTEB-BL02.dgn  
TIME: 5:30:28 AM  
DATE: 4/29/2010

ELEVATION  
SCALE: 1" = 10'-0"

FARMERS BRANCH CREEK  
HYDRAULIC DATA

100 YEAR FLOOD (PROPOSED)

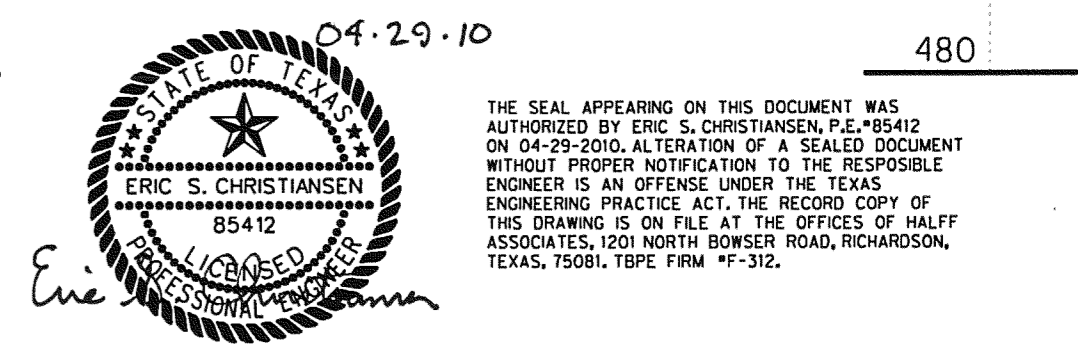
Q = 8,944 cfs  
V = 8.33 fps  
HW = 554.08'

GENERAL NOTES:

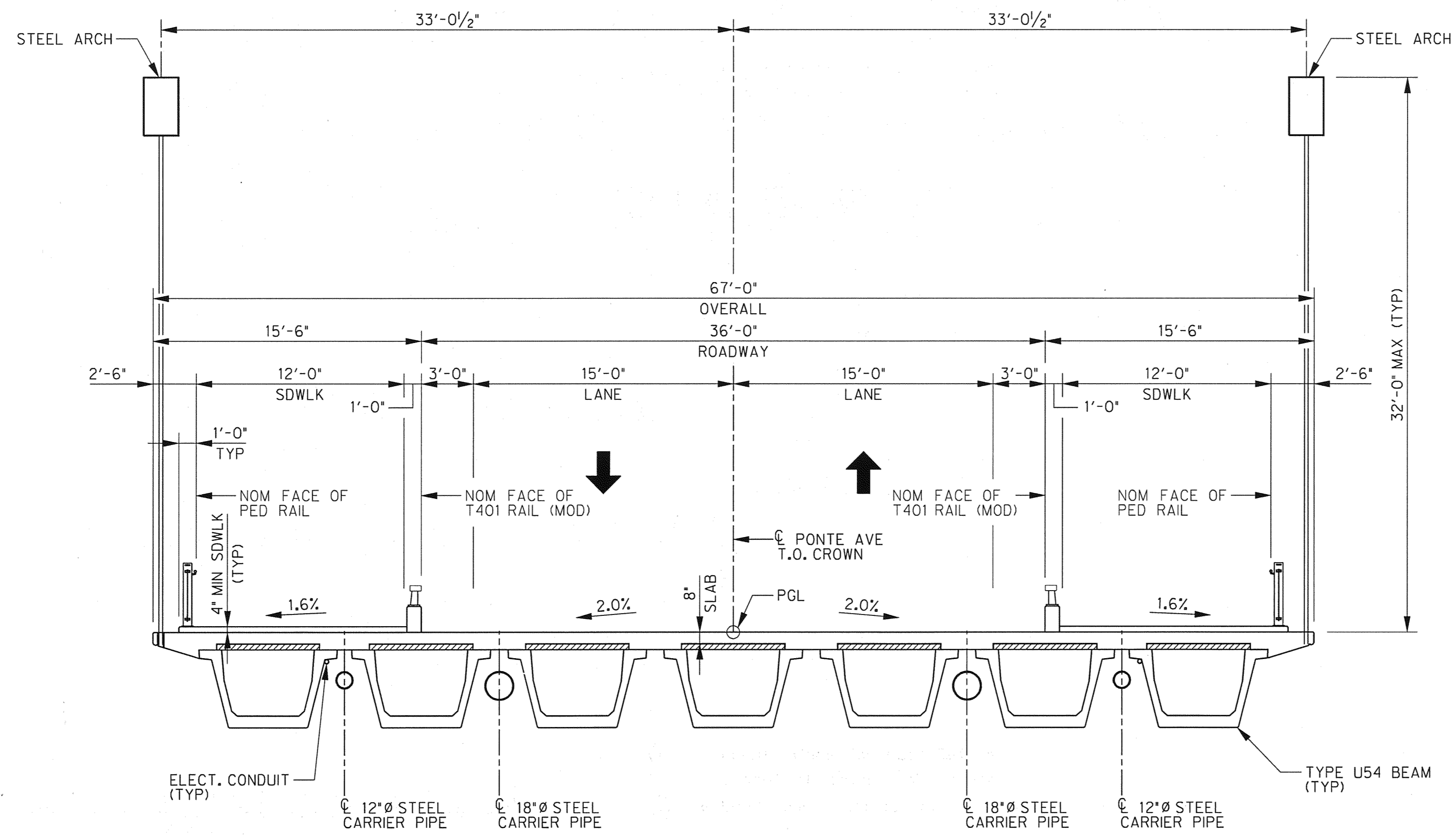
- FOR BRIDGE PLAN, SEE SHEET 1 OF 3.
- FOR TYPICAL SECTION, SEE SHEET 3 OF 3.

FOUNDATION NOTES:

- ALL DRILLED SHAFTS AT ABUTMENTS ARE DESIGNED FOR COMBINED SKIN FRICTION AND POINT BEARING.
- FOUND DRILLED SHAFTS AT THE DEPTHS SHOWN OR DEEPER AS NECESSARY TO PENETRATE DARK, GRAY SHALE A MINIMUM OF 20'-0" (48" DIA.) 30'-0" (54" DIA.)

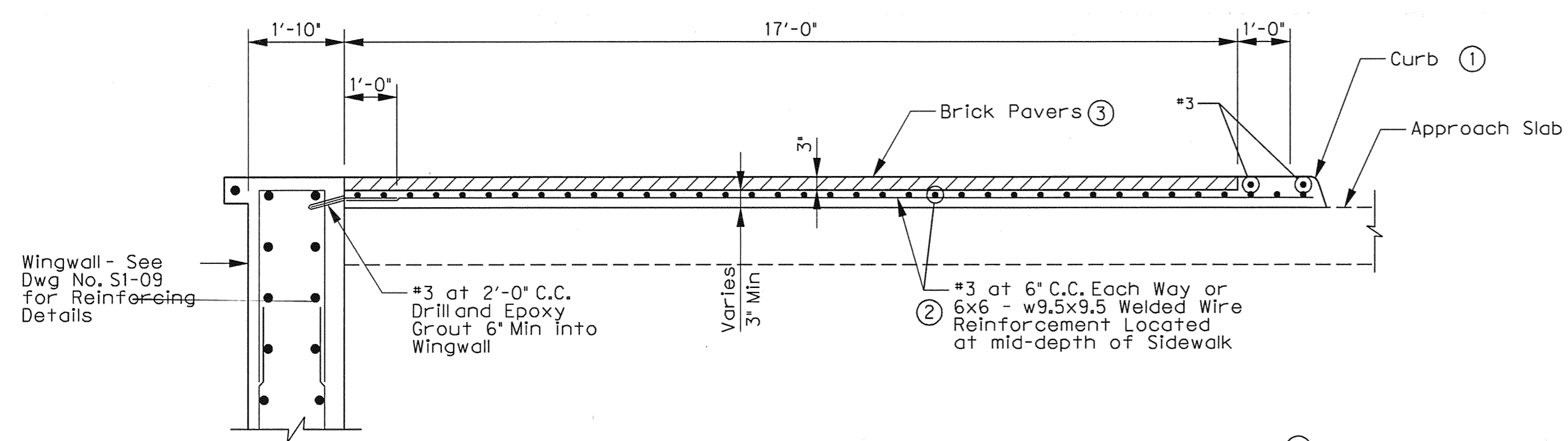


NO.	REVISION	BY	DATE
TOWN OF ADDISON DALLAS COUNTY, TEXAS			
VITRUVIAN PARK BRIDGES PONTE AVENUE			
<b>BRIDGE LAYOUT - ELEVATION</b>			
1201 NORTH BOWSER ROAD, RICHARDSON, TEXAS 75081-2275 TEL (214) 346-6200 FAX (214) 739-0095			
PROJECT	DESIGN	DRAWN	DATE
27379	ESC	AHH	APRIL 2010
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-	S1-02		



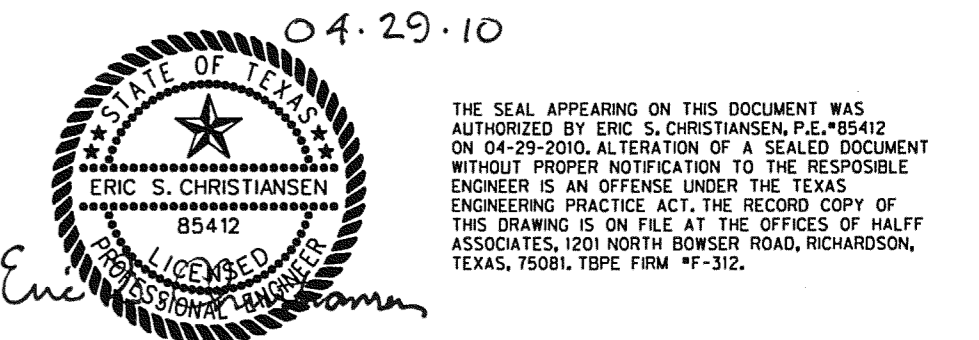
TYPICAL SECTION  
SCALE: 1" = 10'-0"

GENERAL NOTES:  
1. FOR BRIDGE PLAN, SEE SHEET 1 OF 3.  
2. FOR BRIDGE ELEVATION, SEE SHEET 2 OF 3.



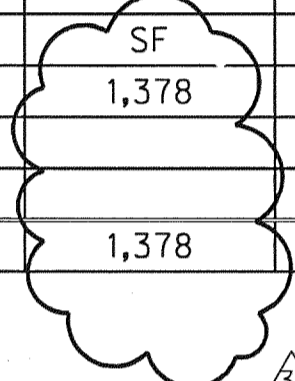
SIDEWALK ON APPROACH SLAB DETAIL  
SCALE: 1/2" = 1'-0"

- ① See CivilDrawings for Curb Details.
- ② Epoxy coat all sidewalk reinforcing.
- ③ See Landscape Architecture drawings for paver details.



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PROJECT	DESIGN	DRAWN	DATE
27379	ESC	AHH	APRIL 2010
FILE	SHEET		
-	S1-03		

SUMMARY OF ESTIMATED STRUCTURAL QUANTITIES - PONTE AVE BRIDGE																			
BRIDGE ELEMENT	BASE BID ITEM	5	6	7	8	9	10	11	12	13	14	15	16	17	18	20	21	22	23
	TxDOT SPEC ITEM DESCRIPTION	BACKFILL	TEMP SPECIAL SHORING	DRILL SHAFT	DRILL SHAFT	CL "F" CONC (MASS PLACEMENT) (ABUT)	CL "S" CONC (APRR SLAB)	CL "S" CONC (BRIDGE SDWLK)	REINF CONC SLAB	PRESTR CONC BEAM (U54)	CONC SURF TREAT (CLASS 1)	STR STL (MISC)	STR STL (STEEL ARCH)	STR STL (MISC) (12" PIPE)	STR STL (MISC) (18" PIPE)	RAIL (T401)(MOD)	RAIL (PED RAIL)	SEALED EXPANSION JOINT (4 IN) (SEJ-A)	JOINT SEALANT
	(TY C)			(48" DIA)	(54" DIA)														
	CY	SF	LF	LF	CY	CY	CY	SF	LF	SY	LB	LB	LB	LB	LF	LF	LF	LF	LF
2 ~ ABUTMENTS	3,141	1,378	730	558	969.7	207.2	36.7					1,020		7,700	15,900	40.0	194.0		
1 ~ PRESTRESSED CONCRETE BEAM UNITS								8,477	886	550.3	16,600			13,100	26,700	254.0	254.0	74.3	52.0
2 ~ STEEL ARCHES													178,800						
<b>TOTAL</b>	<b>3,141</b>	<b>1,378</b>	<b>730</b>	<b>558</b>	<b>969.7</b>	<b>207.2</b>	<b>36.7</b>	<b>8,477</b>	<b>886</b>	<b>550.3</b>	<b>17,620</b>	<b>178,800</b>	<b>20,800</b>	<b>42,600</b>	<b>294.0</b>	<b>448.0</b>	<b>74.3</b>	<b>52.0</b>	



3

2

1

- ① Quantity includes sidewalk concrete on approach slab only.
- ② Structural Steel quantity includes all structural angles and plates used as bridge deck forms, stone ledges, and light mounts.

△ Addendum #3	ESC	05/24/10			
△ Addendum #2	ESC	05/19/10			
NO.	REVISION	BY DATE			
<b>TOWN OF ADDISON</b> DALLAS COUNTY, TEXAS					
<b>VITRUVIAN PARK BRIDGES</b> PONTE AVENUE					
<b>ESTIMATED QUANTITIES</b>					
1201 NORTH BOWSER ROAD, RICHARDSON, TEXAS 75081-2275 TEL (214) 348-6200 FAX (214) 739-0085					
PROJECT	DESIGN	DRAWN	DATE	FILE	SHEET
27379		AHH	APRIL 2010	-	S1-04

USER: ch2140

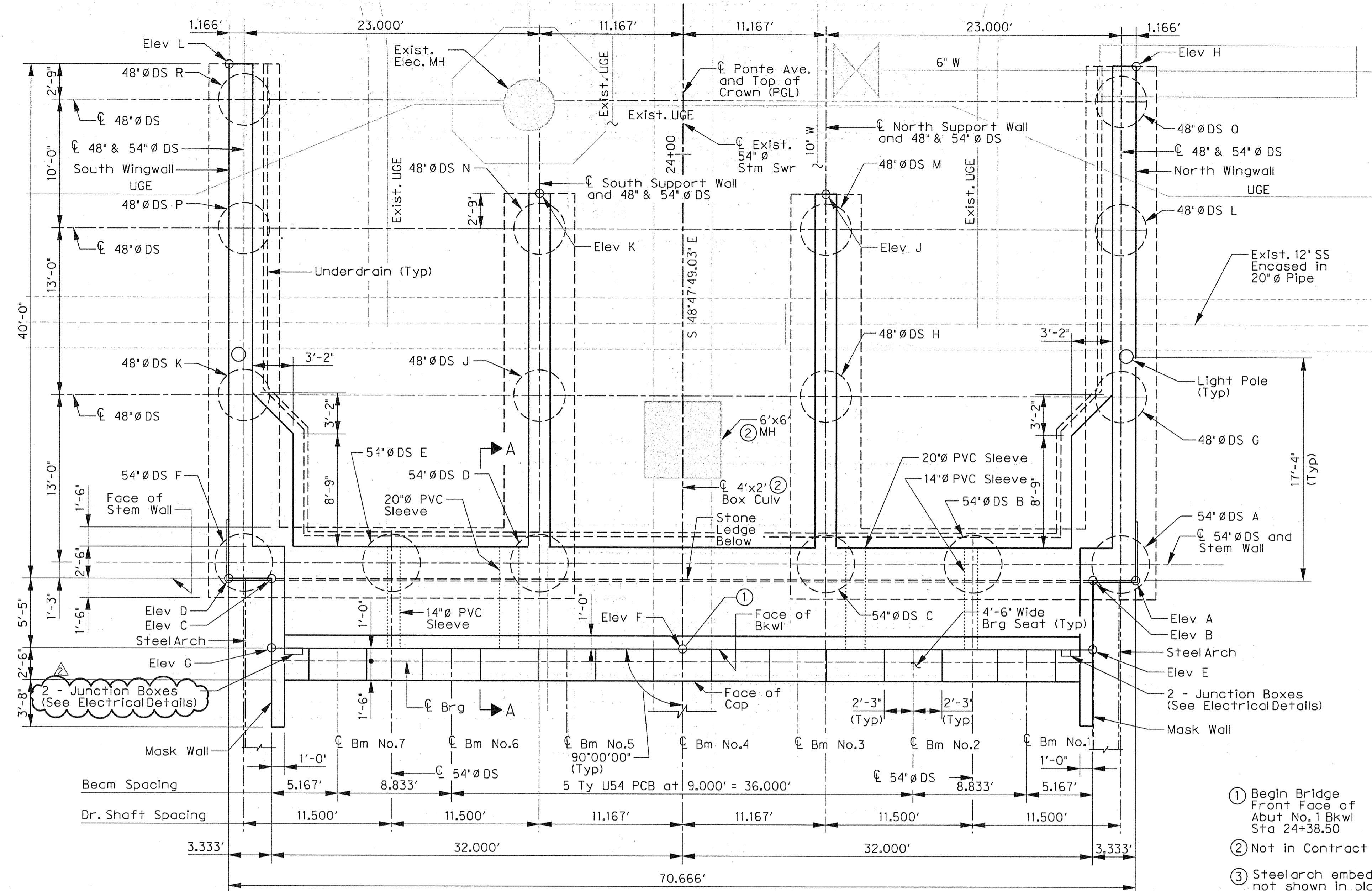
OFFICE: RCH

PROJECT # 27379

FILE: 27379-SC-PONTEB-AB01-01.dgn

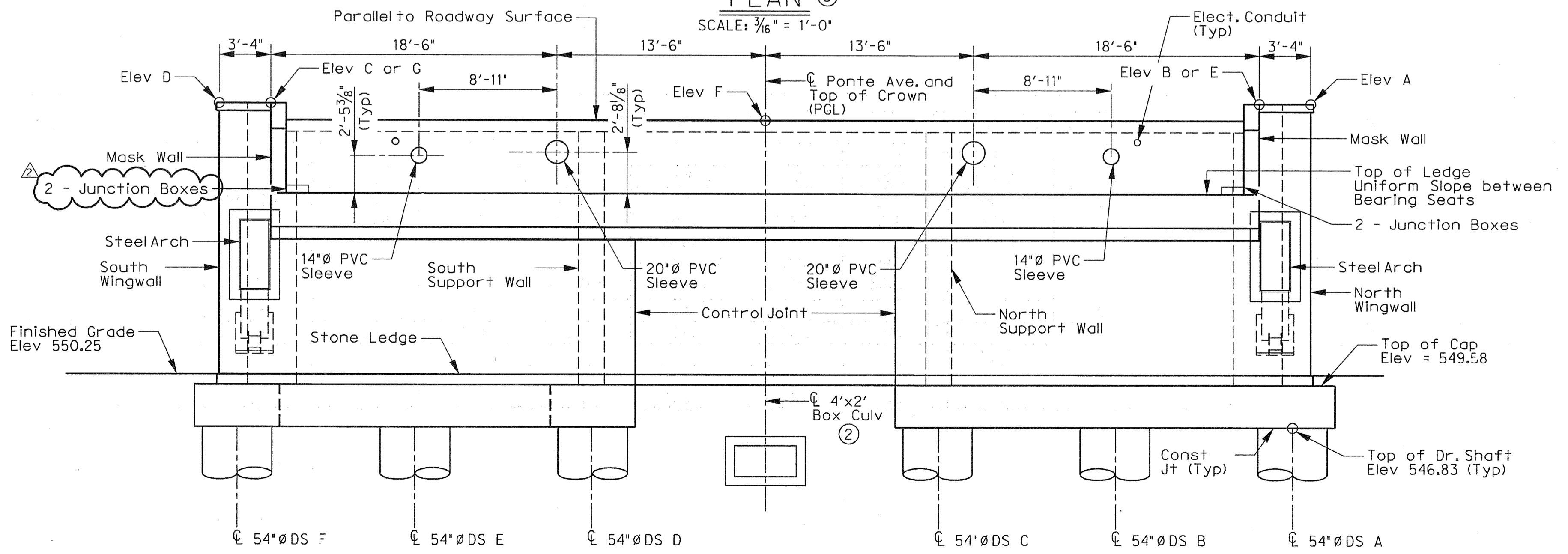
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DATE: 5/19/2010



PLAN ③

SCALE: 3/16" = 1'-0"



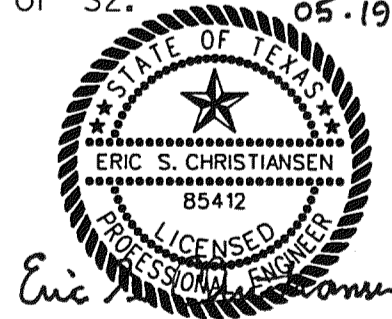
ELEVATION

SCALE: 3/16" = 1'-0"

- ① Begin Bridge Front Face of Abut No. 1 Bkwl Sta 24+38.50
- ② Not in Contract
- ③ Steel arch embeds not shown in plan for clarity.

General Notes:

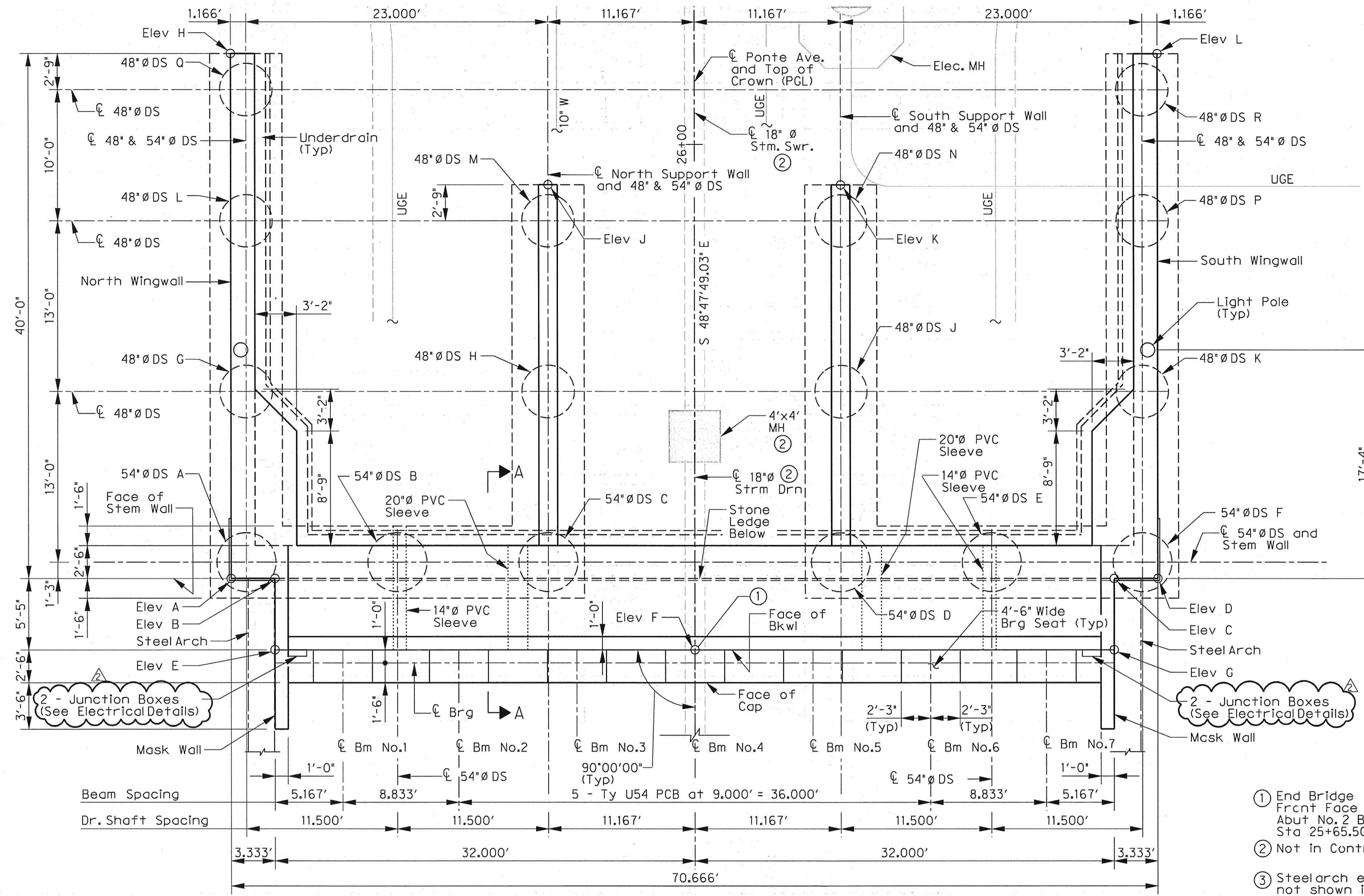
- Provide Class F Concrete, f'c = 4000 psi.
- The price bid per foot of Drilled Shaft shall include the reinforcing extending from the shaft into the footing.
- Spiralsteel shall have one extra turn at the top, bottom, and at splices.
- All cap and wall reinforcing shall be grade 60 except as noted on Sheet 10 of 10.
- Steel angles for stone ledges shall be grade A36 and galvanized.
- Provide a 3/4" minimum chamfer for all exposed edges of concrete.
- See sheet 8 of 10 for underdrain detail. Tie underdrain into the proposed 4' x 2' box culvert at Abut No. 1 and into the proposed 18" storm drain at Abut No. 2.
- Drilled shaft reinforcing may be grade 40.
- The bearing seats shall receive a wood float finish.
- Calculated drilled shaft foundation load:  
408 tons (Max Comp) per drilled shaft (54")  
271 tons (Max Comp) per drilled shaft (48")  
72 tons (Max Tens) per drilled shaft (48")
- See Drawing No. S1-18, Misc Details for rail anchorage in wingwalls.
- See civil drawings for adjacent stairs, ramps, and paving.
- For Section A-A and Mask Wall Detail, see Sheet 3 of 10.
- For Stem Wall reinforcing, see Sheet 4 of 10.
- For Wingwall details, see Sheet 5 and 6 of 10.
- For Support Wall details, see Sheet 7 of 10.
- For Wall Corner Details, and Drilled Shaft Details, see Sheet 8 of 10.
- For Bending Diagrams, see Sheet 9 of 10.
- For Bearing Seat Elevations, Control Elevations, Bar Schedule and Estimated Quantities see sheet 10 of 10.
- Select fill used as backfill material shall consist of very sandy clays or clayey sands with liquid limits of less than 40. The plasticity index of this material should be less than 15. The select fill shall have an effective angle of shearing resistance of at least 28 degrees with 200 psf in cohesion. The select fill shall be well mixed to eliminate the presence of 'clay balls'. The fill shall be free of deleterious material that will prevent proper compaction, contain environmentally hazardous materials, or will decay.
- Wall backfill material shall be placed in maximum 8 inch loose lifts and uniformly compacted to at least 95% maximum dry density as determined by ASTM D-698 for cohesive soils. Moisture content for cohesive soils shall be within -2 to +2 percent of the optimum moisture content as measured in test method ASTM D-698.
- Locate electrical conduits according to Electrical Plan. Provide a minimum of 2" clear cover for conduits in cap and walls. For conduits penetrating the backwall or top cap, do not locate more than one conduit between Bars S1 or S2.



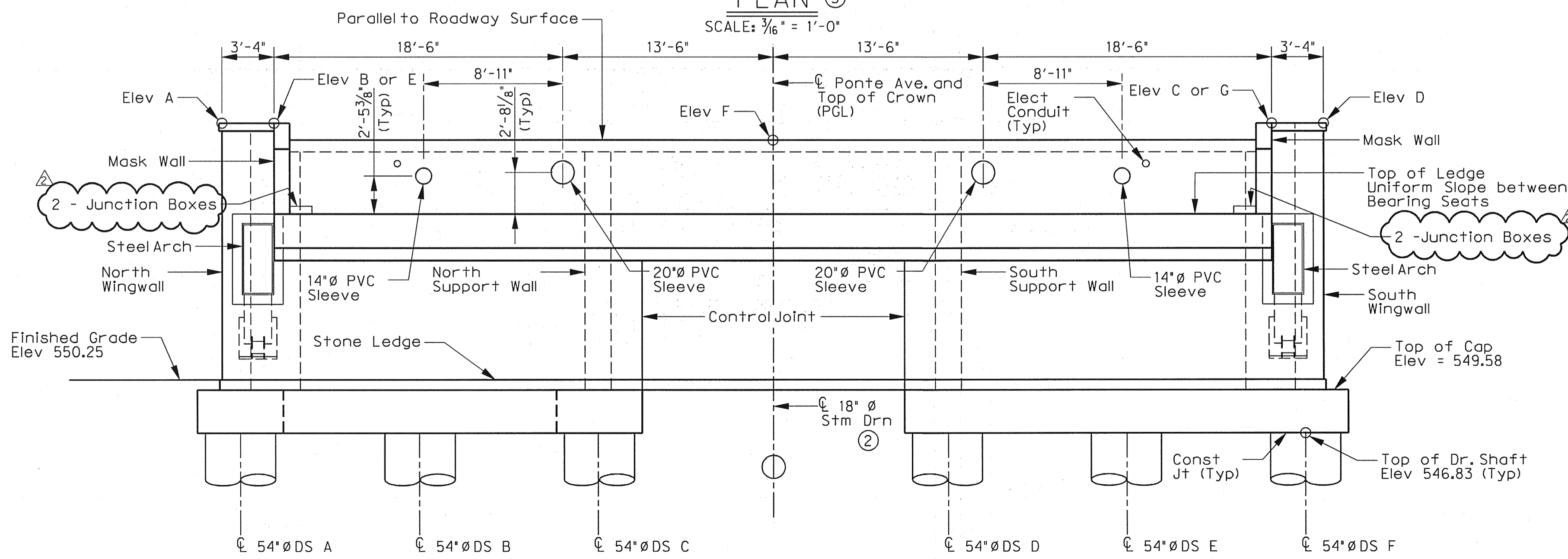
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Addendum #2		ESC	05/19/10
NO.	REVISION	BY	DATE
TOWN OF ADDISON DALLAS COUNTY, TEXAS VITRUVIAN PARK BRIDGES PONTE AVENUE <b>ABUTMENT NO. 1</b> <b>PLAN AND ELEVATION</b>			
		1201 NORTH BOWSER ROAD, RICHARDSON, TEXAS 75081-2275 TEL (214) 346-6200 FAX (214) 739-0095	
PROJECT	DESIGN	DRAWN	DATE
27379	ESC	AHH	APRIL 2010
FILE	SHEET		
-	S1-05		

USER: ah2140  
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 PROJECT # 27379  
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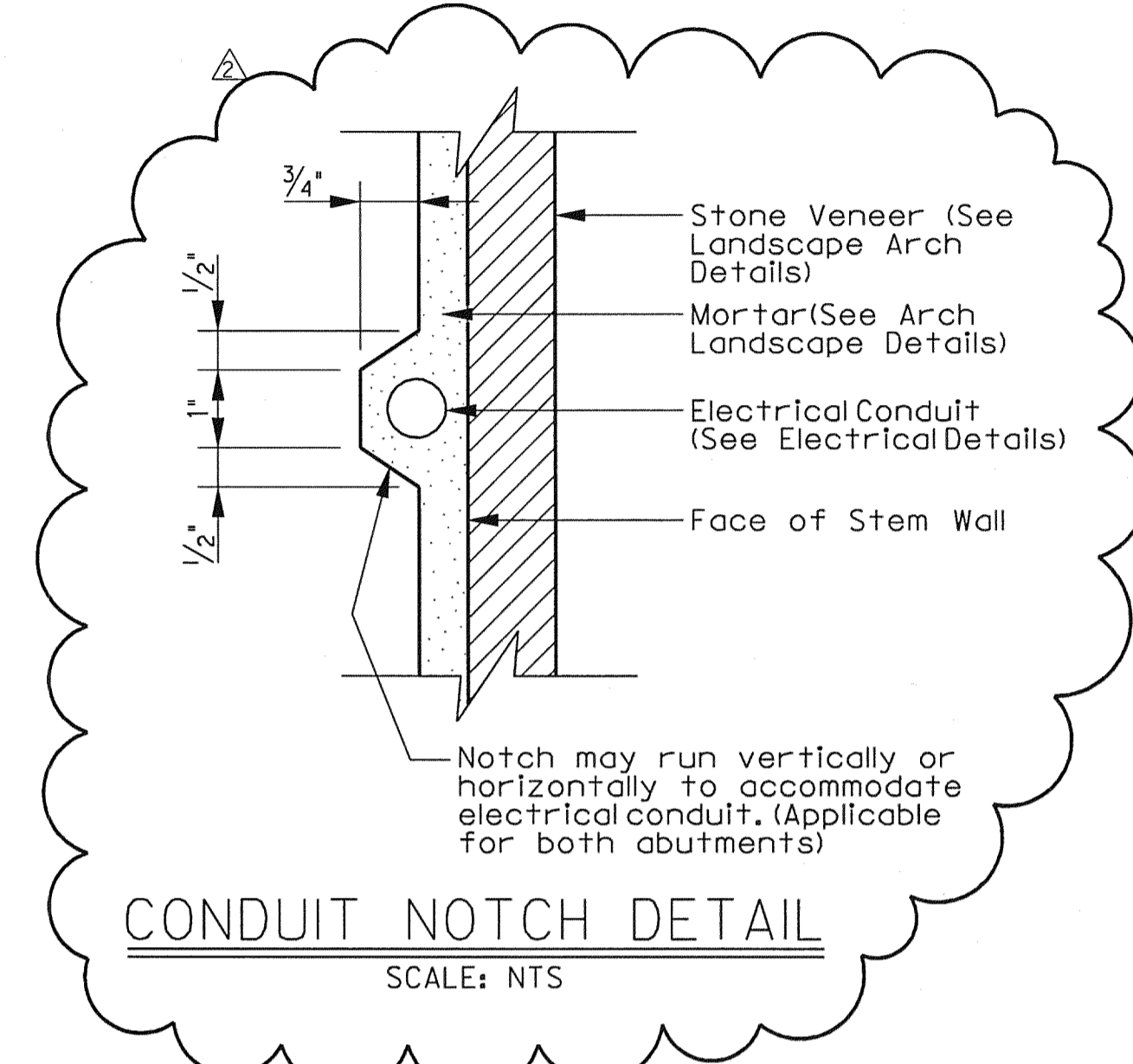


PLAN 3  
 SCALE: 3/16" = 1'-0"

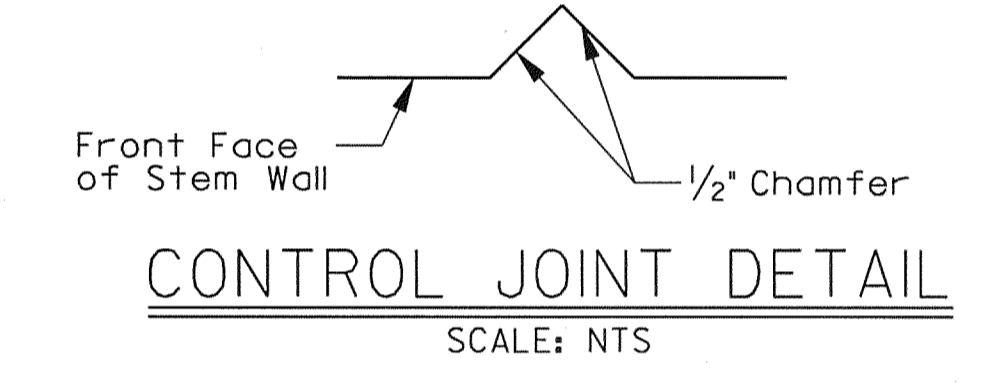


ELEVATION  
 SCALE: 3/16" = 1'-0"

General Notes:  
 See sheet 1 of 10 for General Notes.



CONDUIT NOTCH DETAIL  
 SCALE: NTS



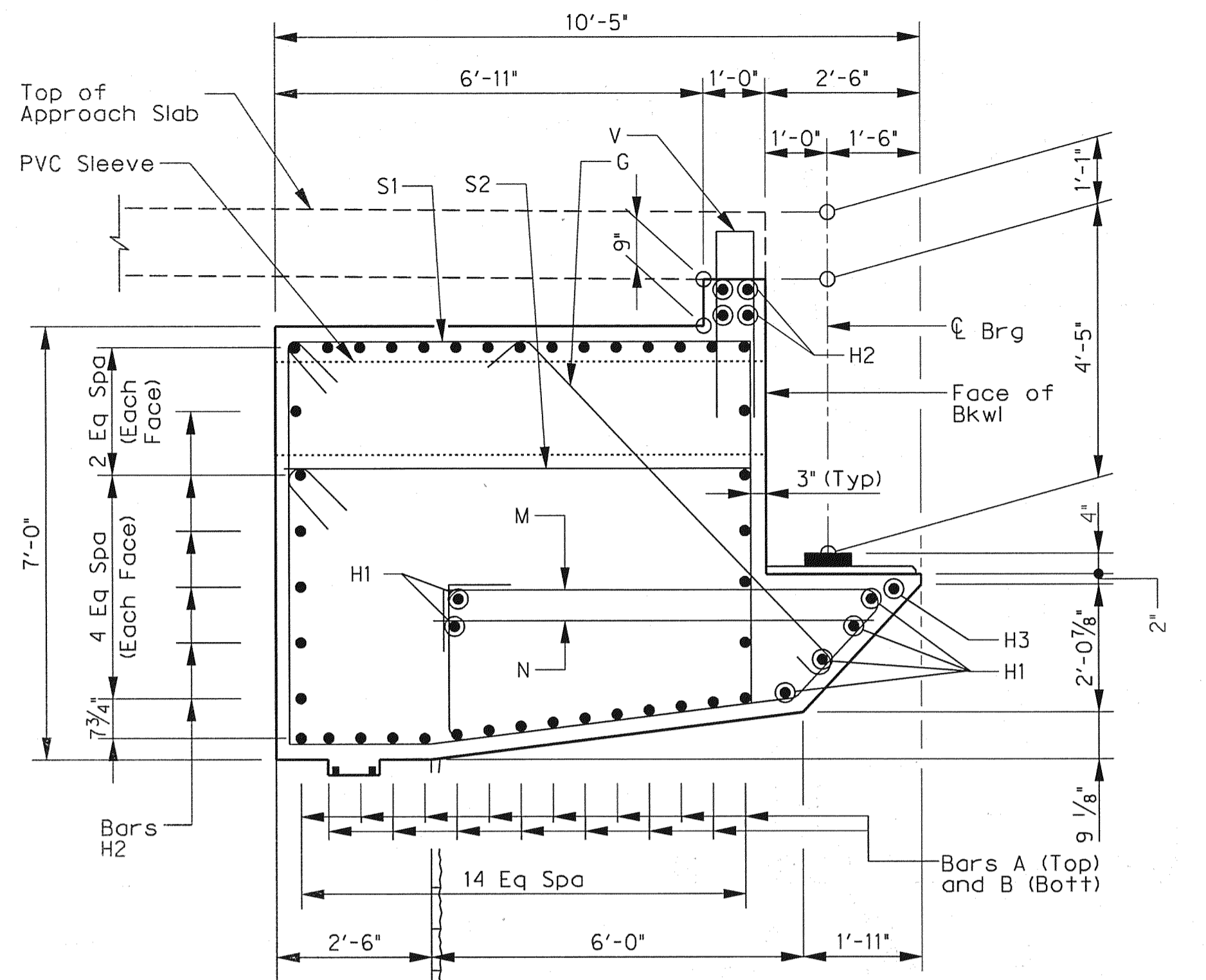
CONTROL JOINT DETAIL  
 SCALE: NTS

- ① End Bridge Frnt Face of Abut No. 2 Bkwl Sta 25+65.50
- ② Not in Contract
- ③ Steelarch not shown in plan for clarity.

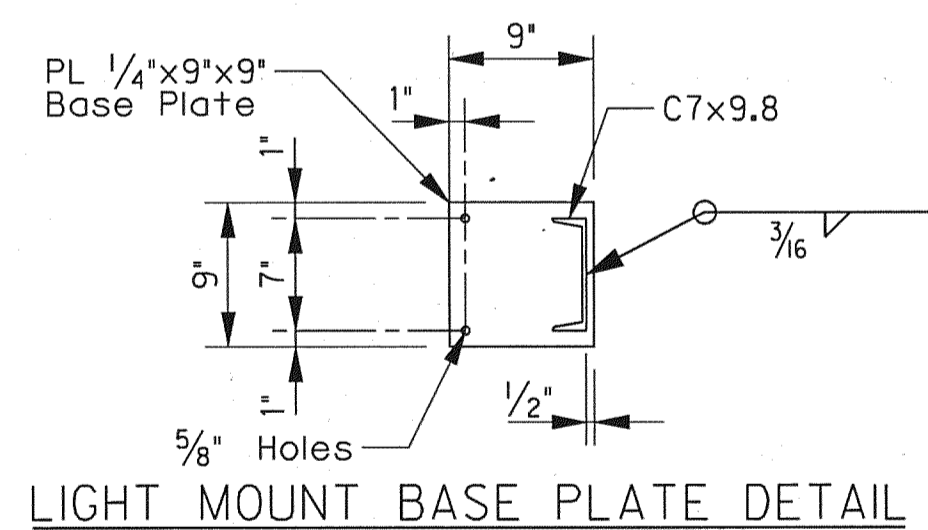


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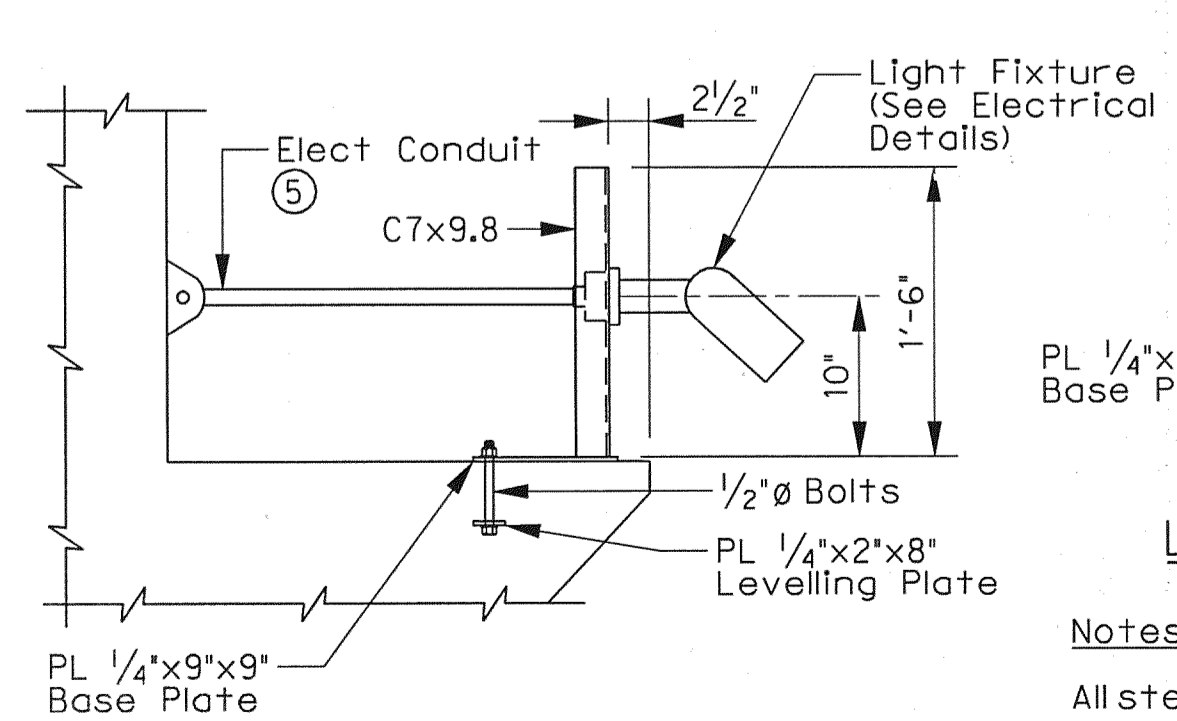
Addendum #2		ESC	05/19/10
NO.	REVISION	BY	DATE
TOWN OF ADDISON DALLAS COUNTY, TEXAS			
VITRUVIAN PARK BRIDGES PONTE AVENUE			
ABUTMENT NO. 2 PLAN AND ELEVATION			
1201 NORTH BOWSER ROAD, RICHARDSON, TEXAS 75081-2275 TEL (214) 346-6200 FAX (214) 739-0095			
PROJECT	DESIGN	DRAWN	DATE
27379	ESC	AHH	APRIL 2010
FILE	SHEET		
-	S1-06		



**SECTION A-A (CAP)**  
SCALE: 1/2" = 1'-0"

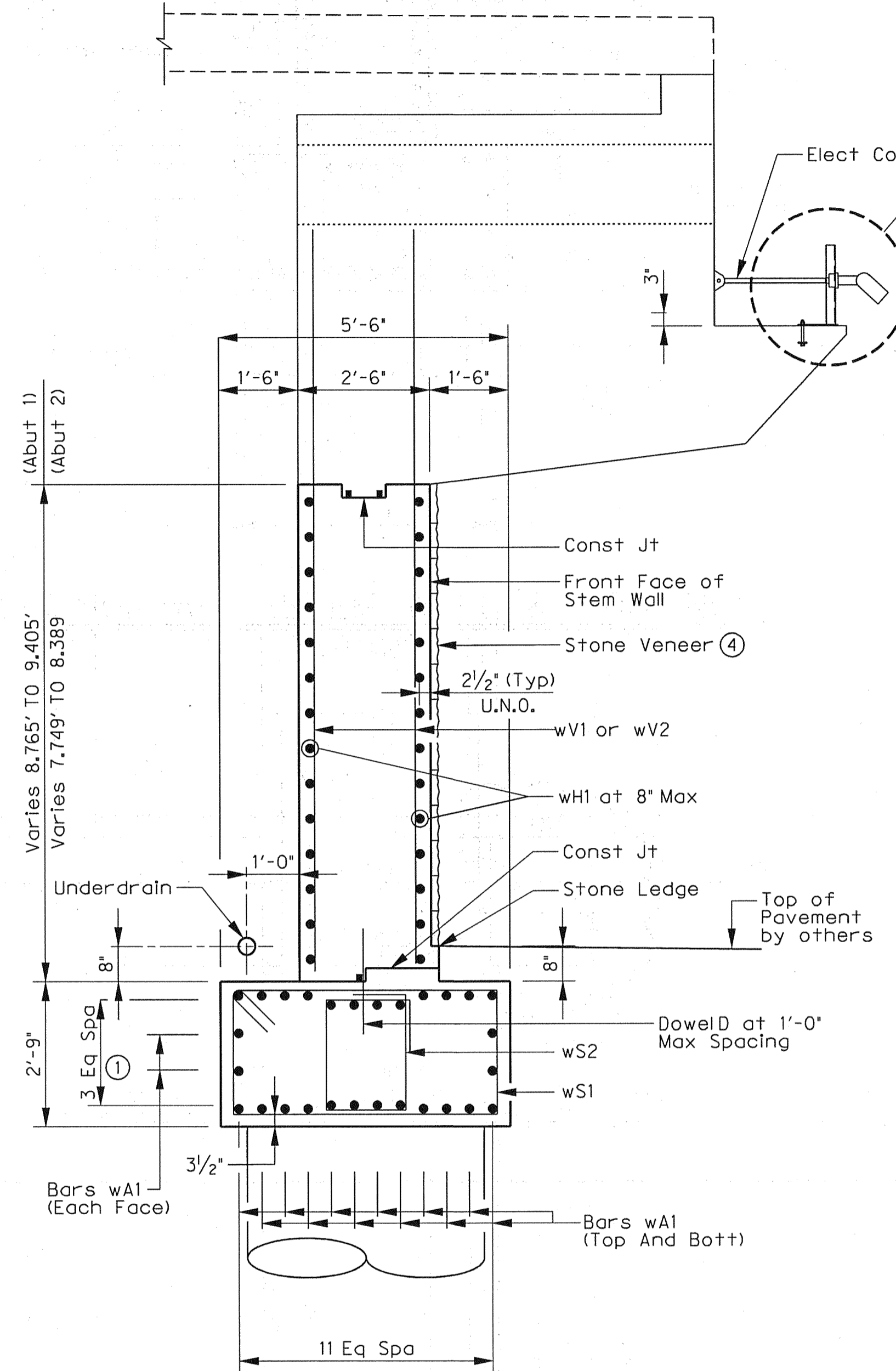


**LIGHT MOUNT BASE PLATE DETAIL**

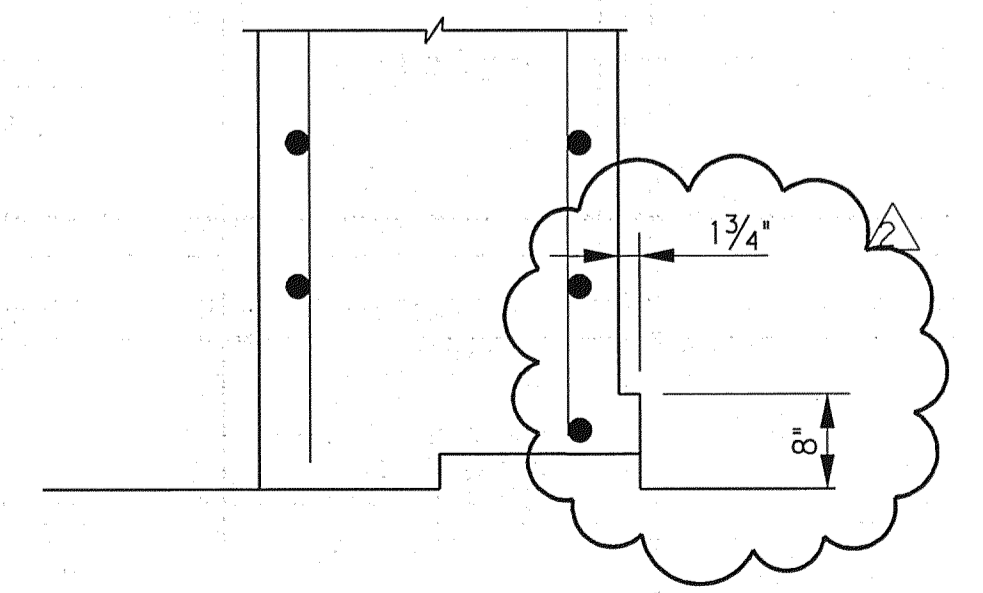


**LIGHT MOUNTING DETAIL**  
SCALE: 1" = 1'-0"

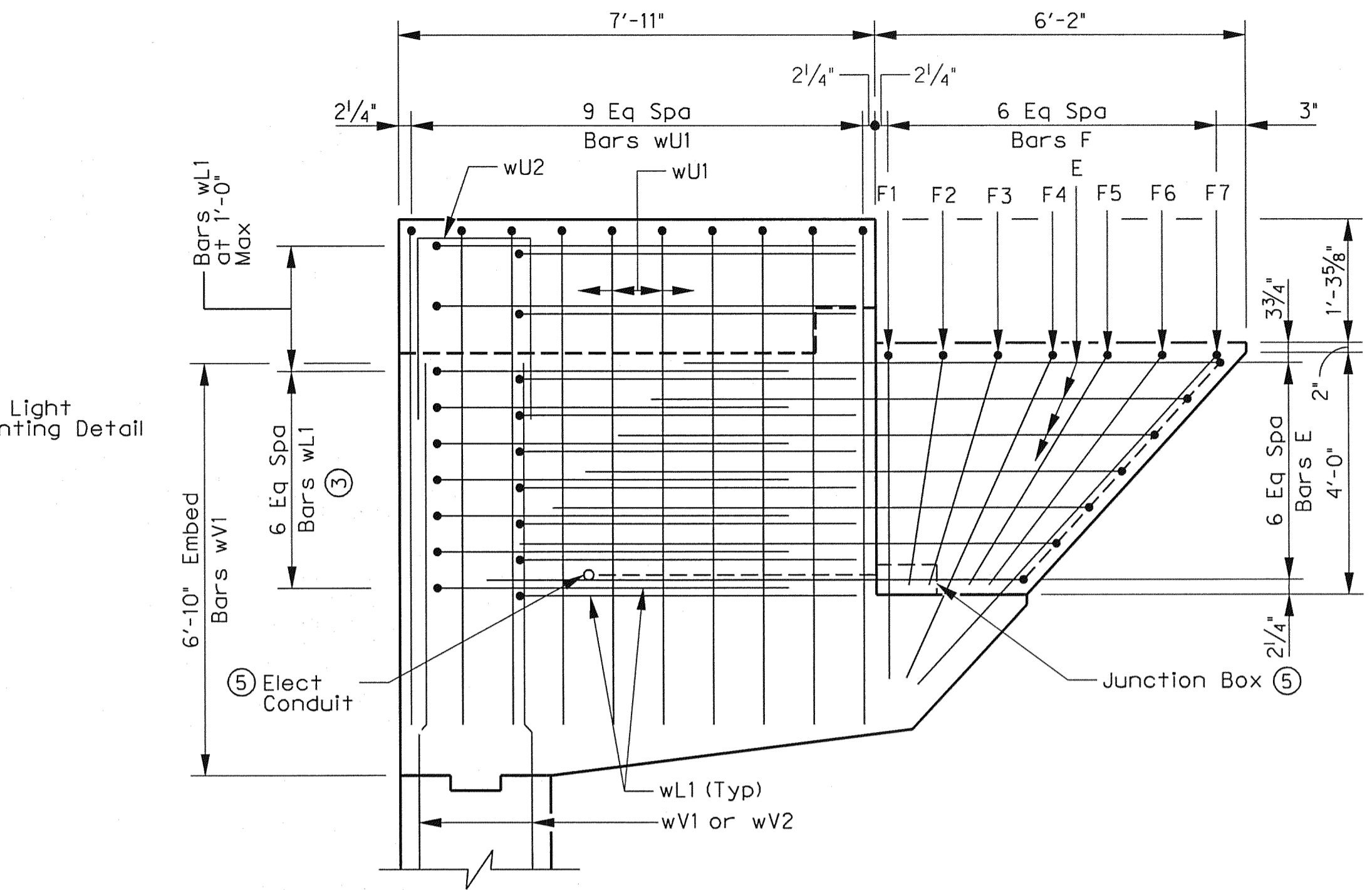
**Notes:**  
All steel components shall be galvanized.  
Two Light mounting supports shall be located as follows on both abutments:  
centered between Bm Nos 2 and 3  
centered between Bm Nos 5 and 6



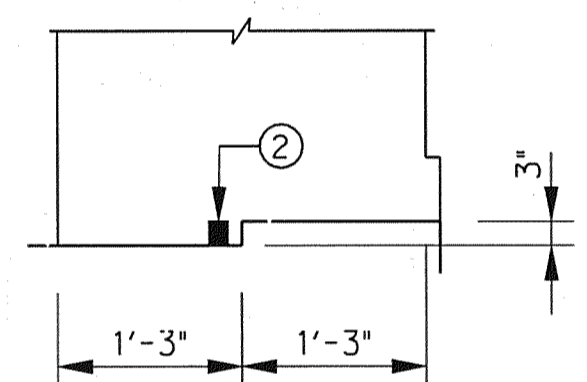
**SECTION A-A (STEM WALL & FOOTING)**  
SCALE: 1/2" = 1'-0"



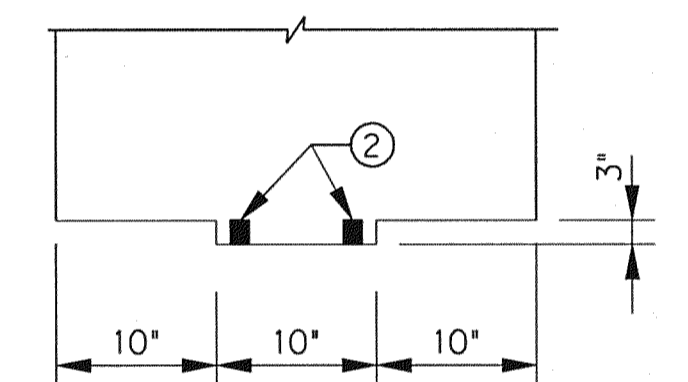
**STONE LEDGE DETAIL AT CAP**  
SCALE: NTS



**MASK WALL DETAIL**  
SCALE: 1/2" = 1'-0"

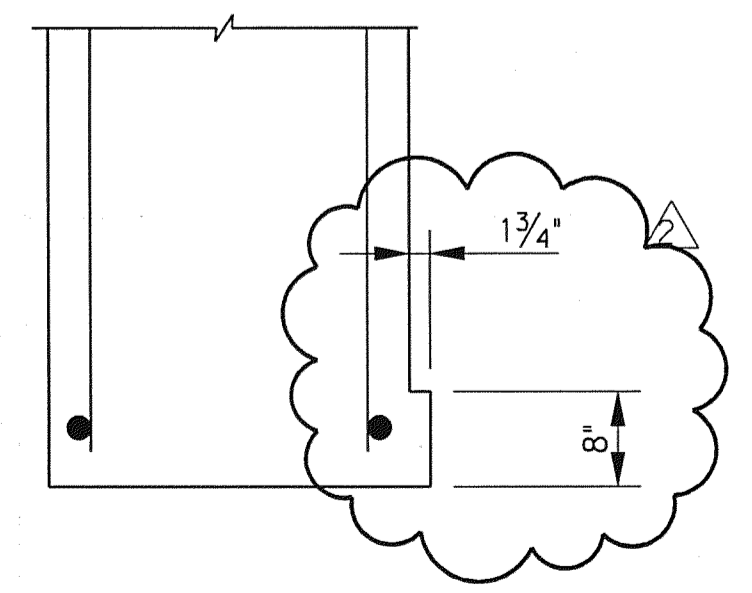


**BOTTOM CONST JT DETAIL**  
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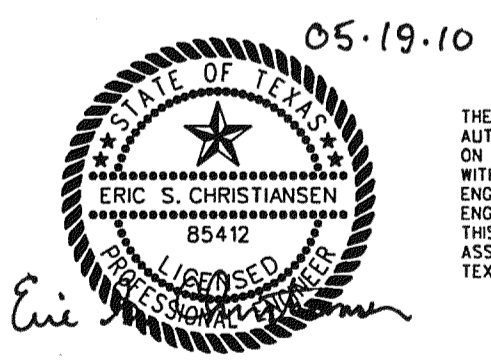


**TOP CONST JT DETAIL**  
SCALE: NTS

- ① Adjust top and bottom rows of Bars wA1 to allow for embedment of wA2 and wA3 from support wall and wingwall footings.
- ② Greenstreak 1" x 3/4" Lockstop waterstop or approved equal
- ③ Lap Bars wL1 with Bars E where possible.
- ④ See landscape architecture drawings for stone veneer details.
- ⑤ See electrical drawings for details.

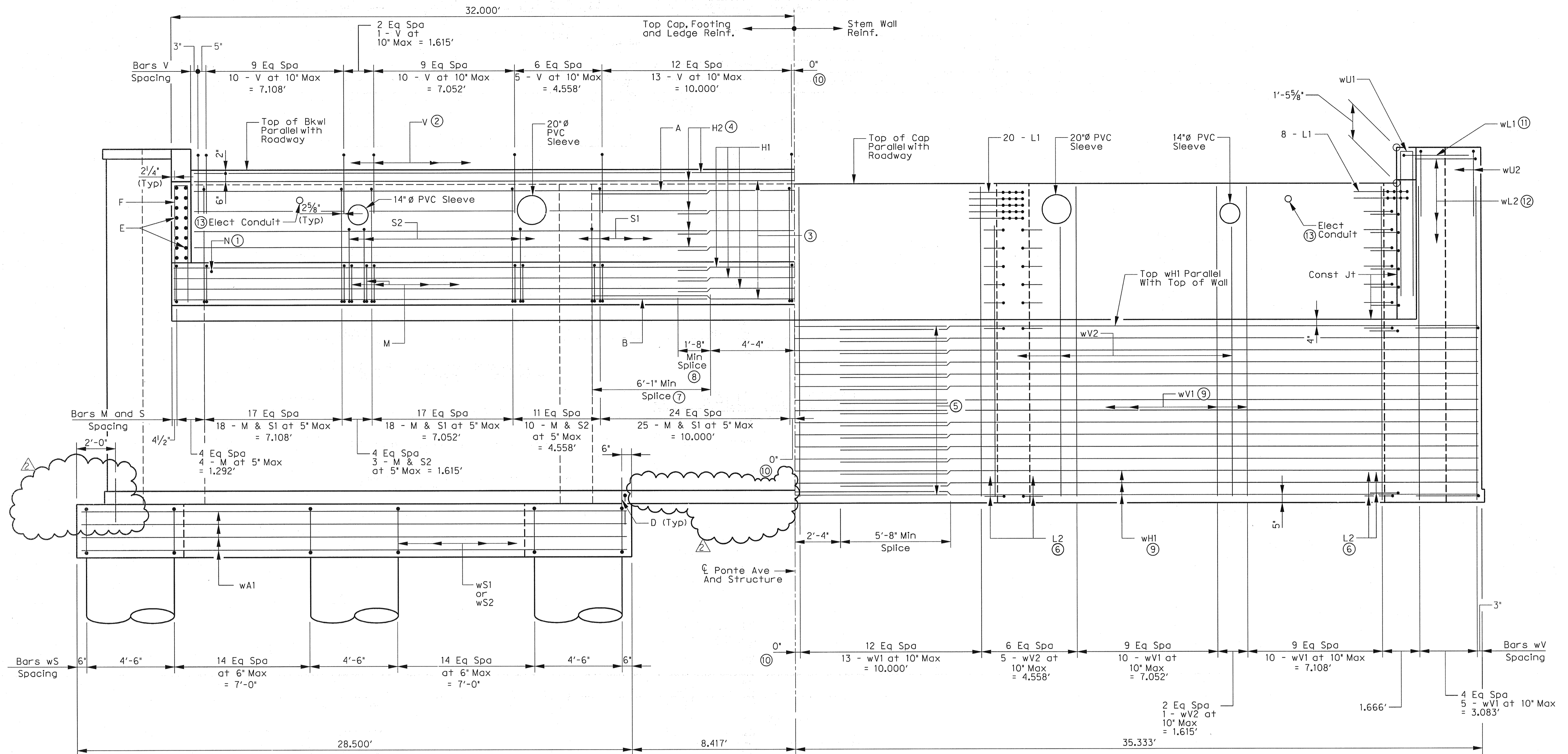


**STONE LEDGE DETAIL OFF OF CAP**  
SCALE: NTS



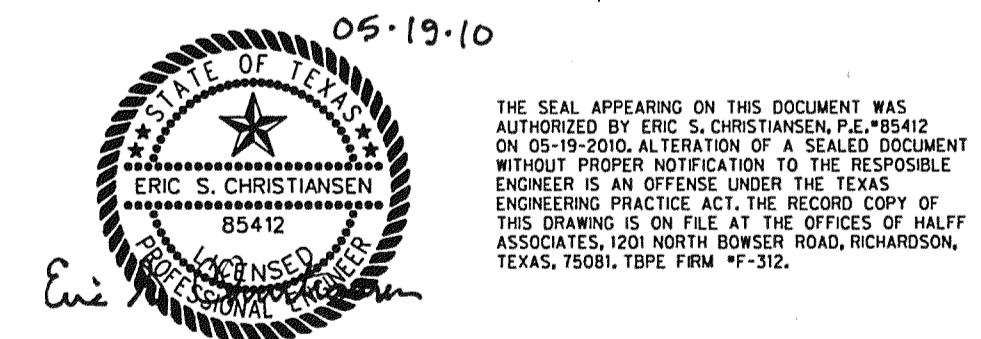
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Addendum #2		ESC	05/19/10
NO.	REVISION	BY	DATE
<b>TOWN OF ADDISON</b> DALLAS COUNTY, TEXAS <b>VITRUVIAN PARK BRIDGES</b> PONTE AVENUE			
<b>ABUTMENT DETAILS - SECTIONS</b>			
<b>HALFF</b> 1201 NORTH BOWSER ROAD, RICHARDSON, TEXAS 75081-2275 TEL (214) 346-6200 FAX (214) 739-0095			
PROJECT	DESIGN	DRAWN	DATE
27379	ESC	AHH	APRIL 2010
FILE	-		SHEET
			S1-07



- ① Space Bars N and G at every other Bar M. Alternate Bars N and G.
- ② Field cut Bars V 2" from pipe penetrations.
- ③ See sheet 3 of 10, Section A-A for spacing of Bars H.
- ④ Field cut Bars H2 2" from pipe penetrations where applicable.
- ⑤ 14 Eq Spa (Abut 1) (Shown)  
13 Eq Spa (Abut 2)
- ⑥ Space Bars L2 with every Bar wH1 in the stem wall.
- ⑦ 6'-1" Min Splice for Bars A and B. Splice 50% of the Bars on one side of the  $\phi$  of structure and the remaining on the other side.
- ⑧ 1'-8" Min Splice for Bars H1 and H2 100% of the bars may be spliced in one location.
- ⑨ Field cut Bars wH1 and wV1 2" from steelarch embeds where applicable.
- ⑩ Bars not shown at  $\phi$  of Structure for clarity.
- ⑪ See Sheet 3 of 10, Mask Wall Detail for Bars wL1 spacing.
- ⑫ See Sheet 5 of 10 for Bars wL2 spacing.
- ⑬ See Electrical details.

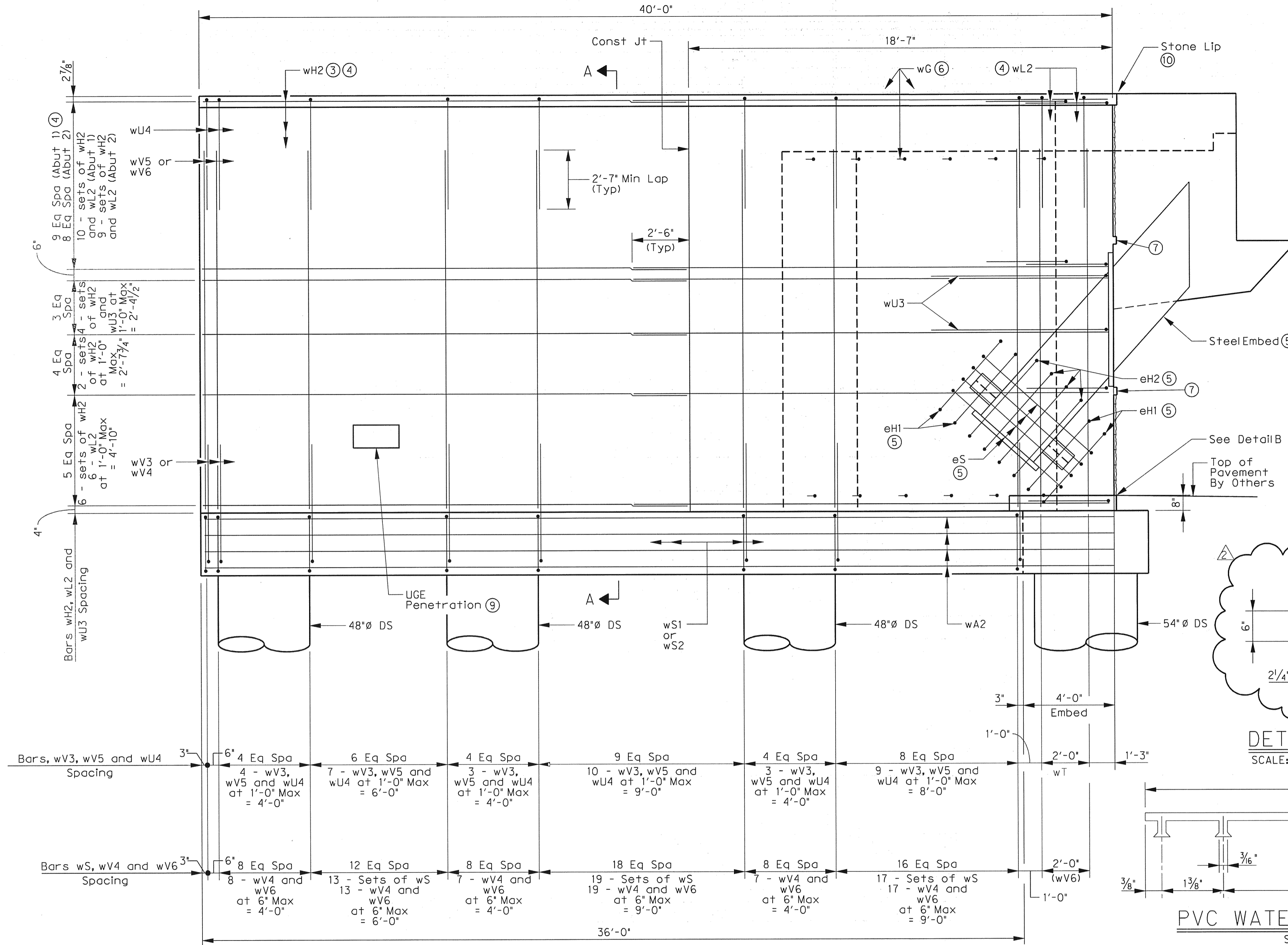
**STEM WALL ELEVATION**  
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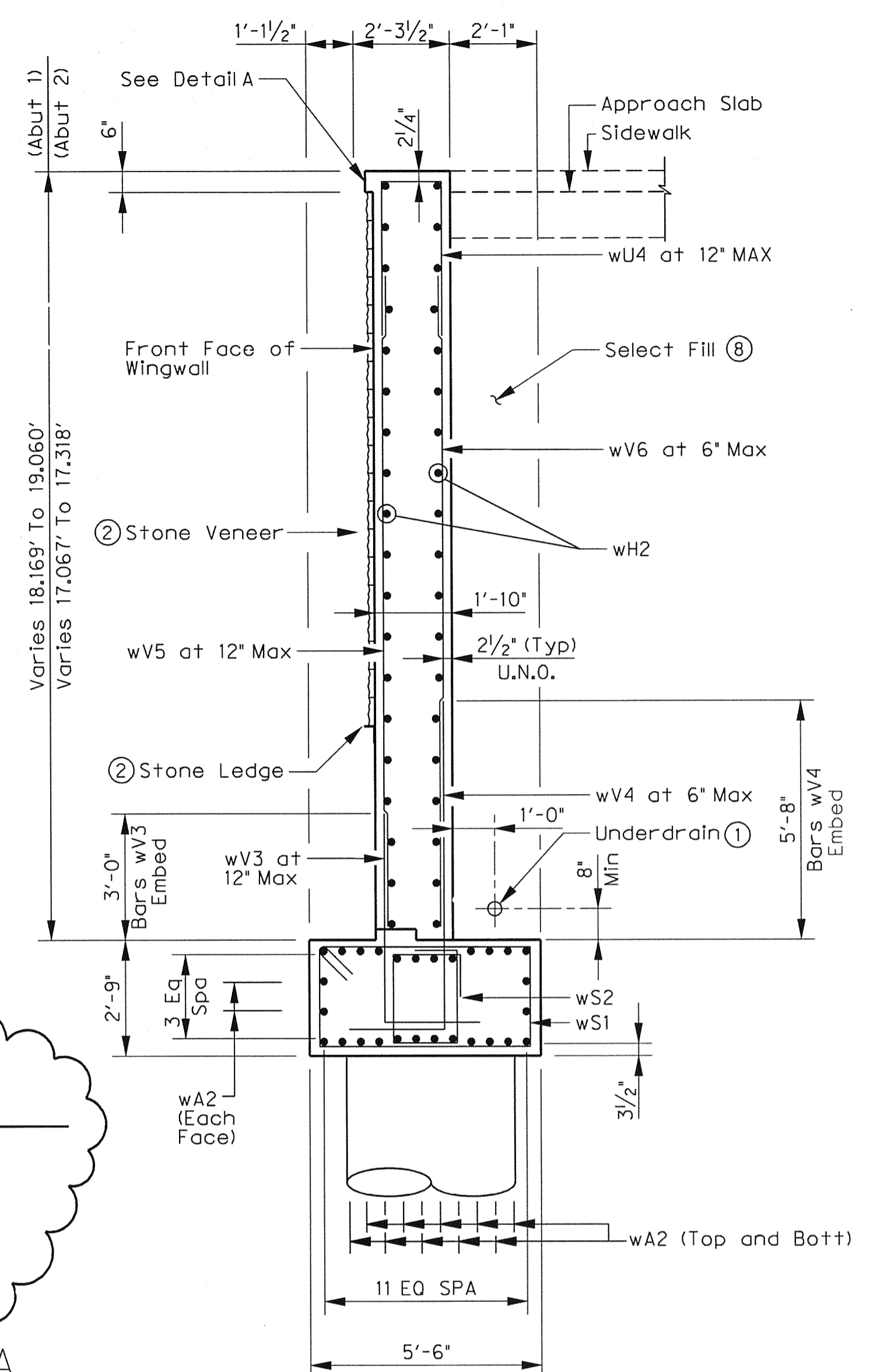
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<b>TOWN OF ADDISON</b> DALLAS COUNTY, TEXAS			
<b>VITRUVIAN PARK BRIDGES</b> PONTE AVENUE			
<b>ABUTMENT DETAILS -</b> <b>STEM WALL ELEVATION</b>			
<b>HALFF</b> 1201 NORTH BOWSER ROAD, RICHARDSON, TEXAS 75081-2275 TEL (214) 346-6200 FAX (214) 739-0095			
PROJECT	DESIGN	DRAWN	DATE
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FILE	SHEET		
-	S1-08		



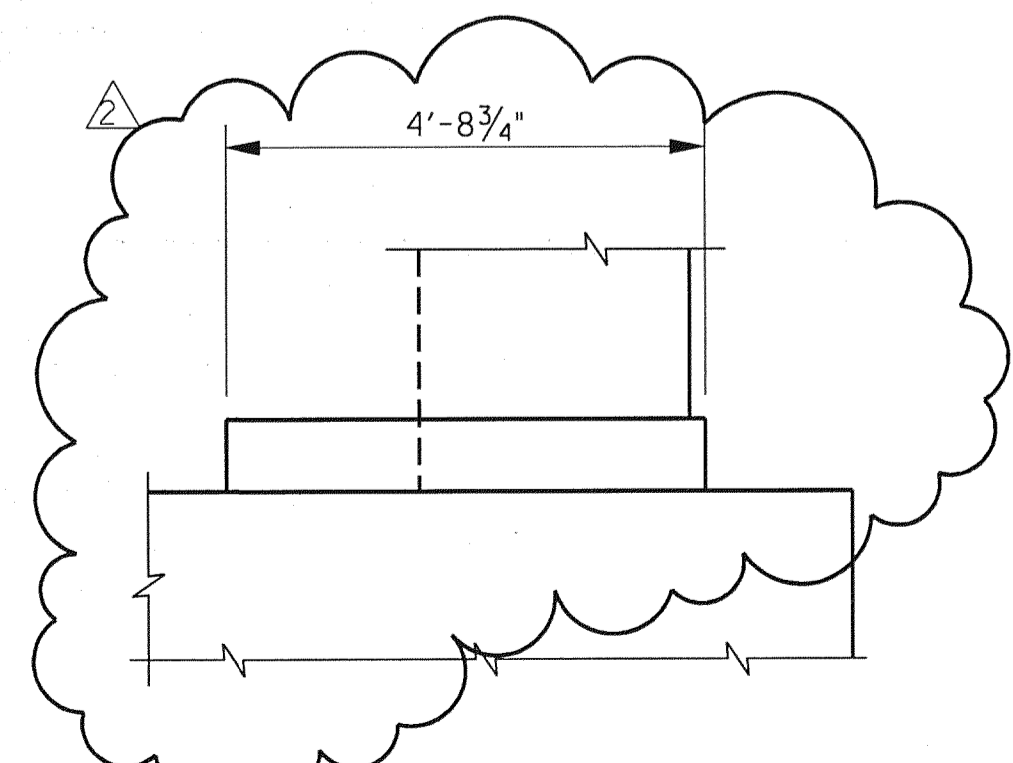
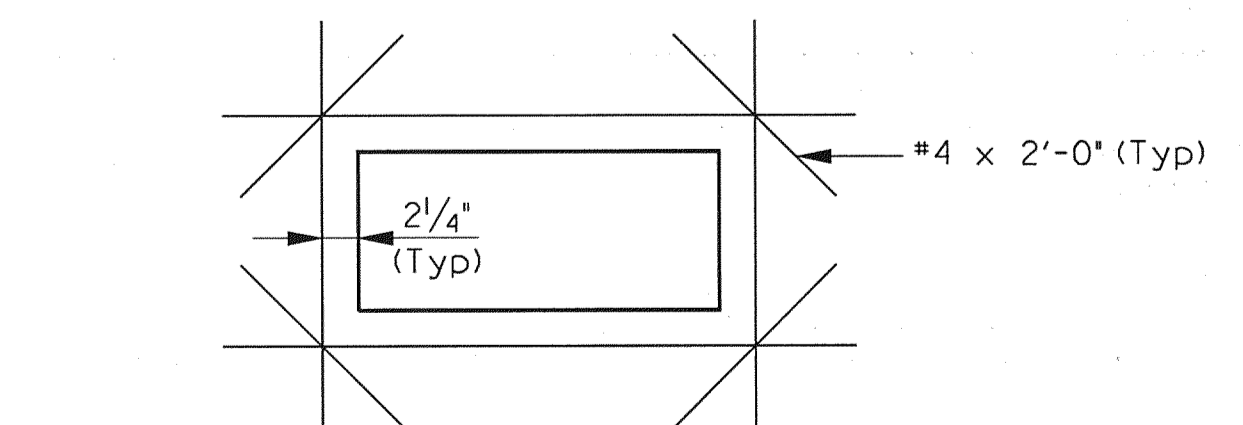
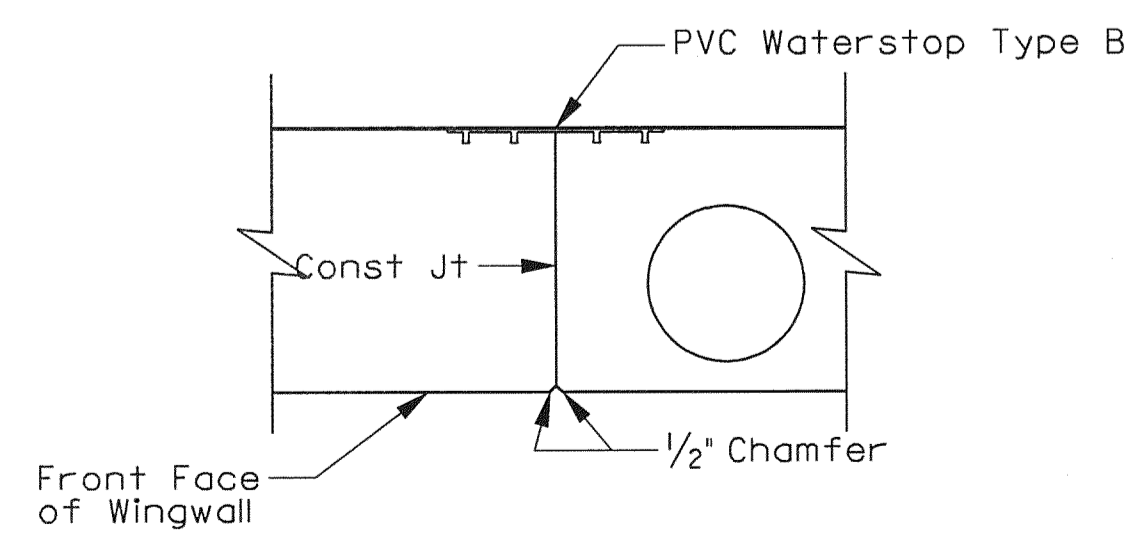
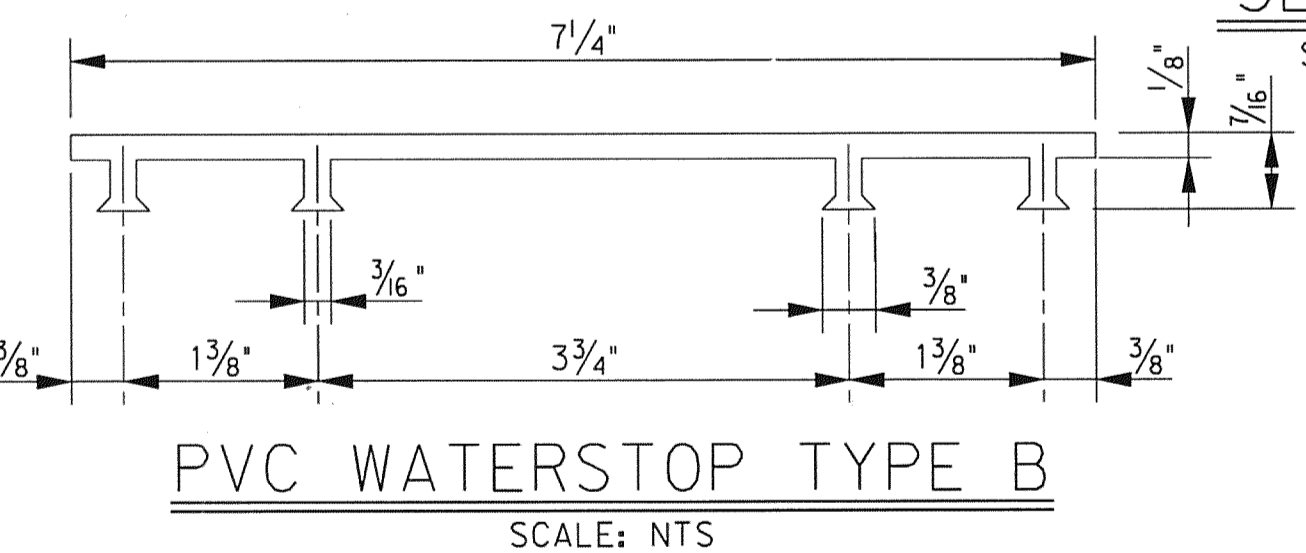
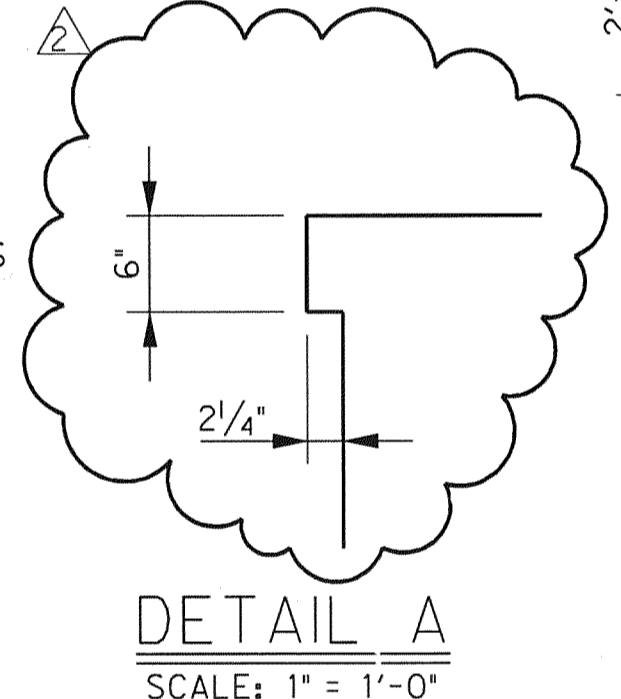
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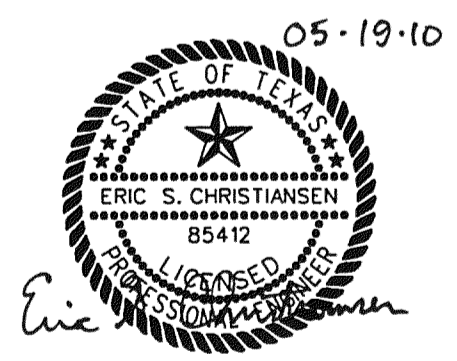
**WINGWALL ELEVATION**  
 SCALE: 3/8" = 1'-0"



**SECTION A-A**  
 SCALE: 3/8" = 1'-0"

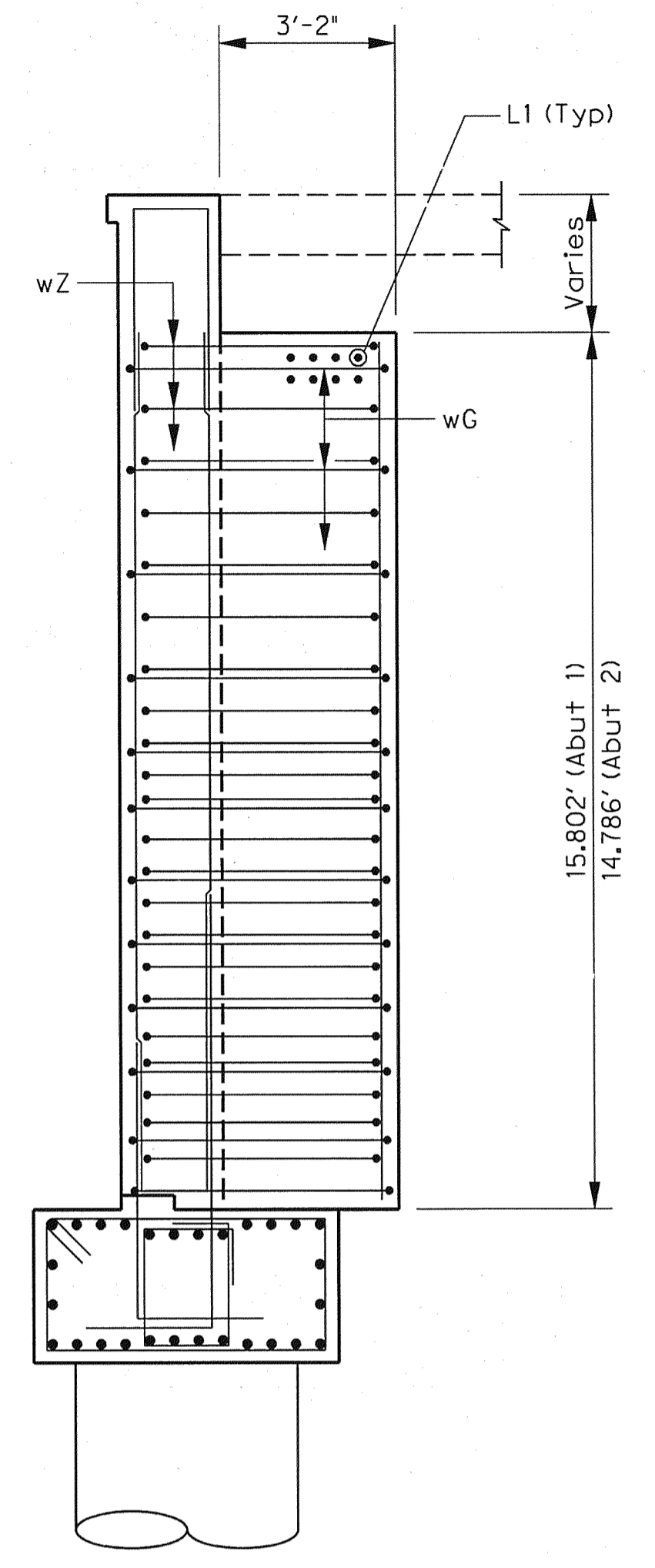
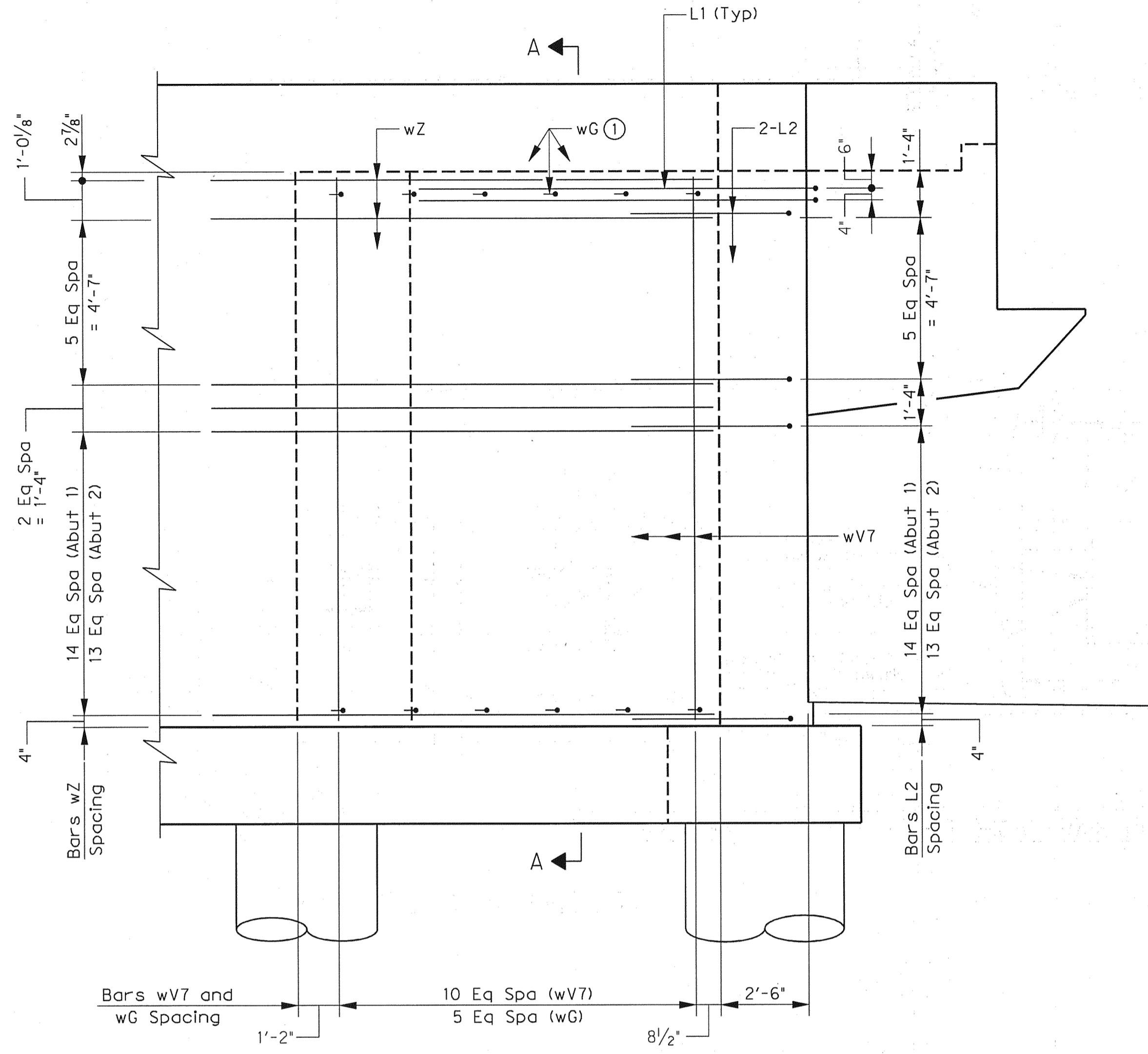


- See Sheet 8 of 10 for underdrain detail.
- Stone ledge shall be a 5" x 3" x 1/4" angle (LLV) with 1/2" Hilti kwik Bolt 3 expansion anchors embedded a minimum of 3/2" and spaced at 1'-6" C.C. Refer to landscape architecture sheets for location of stone veneer and stone ledges.
- Field cut bars wH2 2" from steel embed where applicable.
- Flare top bars to match slope of wall.
- See Drawing No. S1-23 and S1-24 for steel embed details.
- See Sheet 6 of 10 for spacing of bars wG.
- See Drawing No. S1-18 for stone collar details.
- See Sheet 1 of 10 for select fill notes.
- Location varies.
- Bars sH2 and sL3 not shown for clarity.

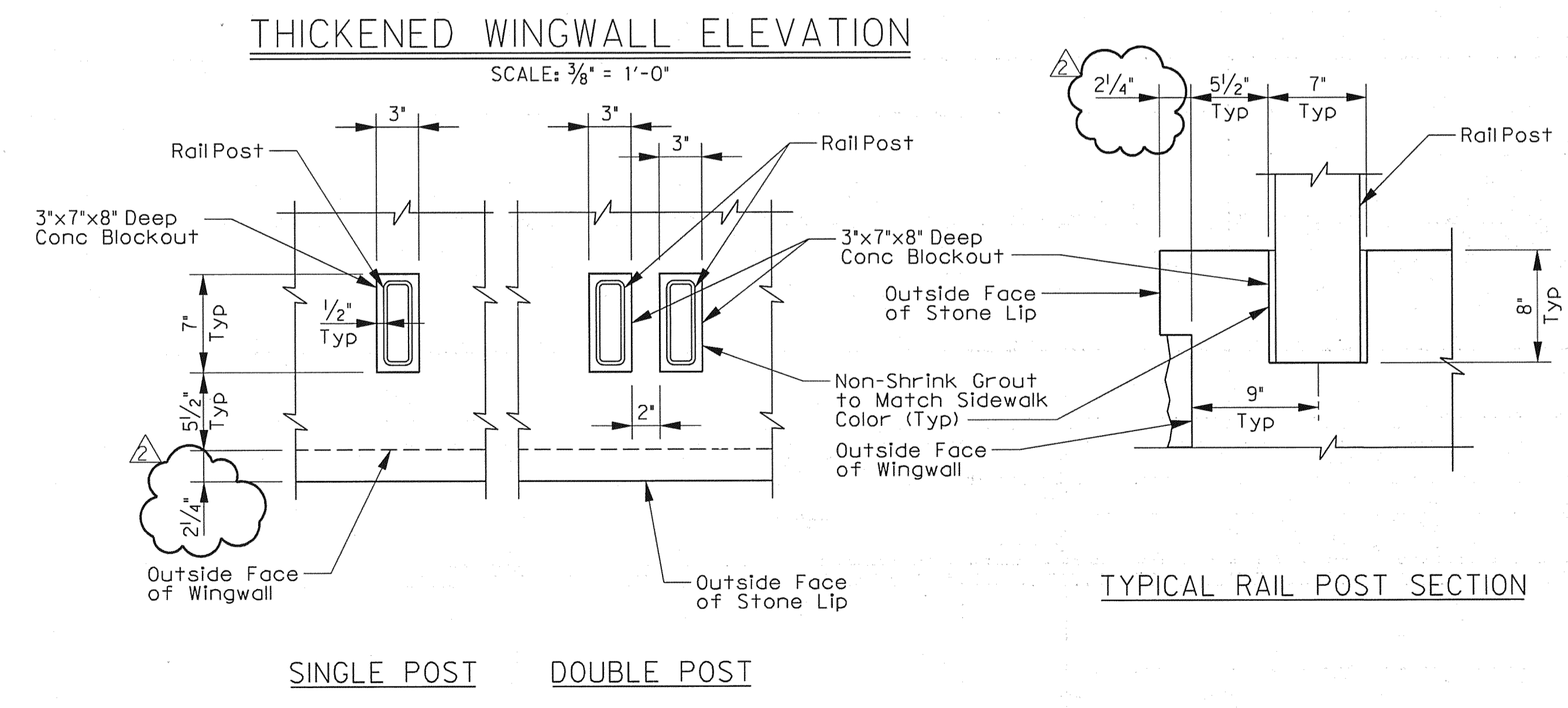


05-19-10  
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Addendum #2		ESC	05/19/10
NO.	REVISION	BY	DATE
TOWN OF ADDISON DALLAS COUNTY, TEXAS			
VITRUVIAN PARK BRIDGES PONTE AVENUE			
ABUTMENT DETAILS - WINGWALL DETAILS			
HALFF		1201 NORTH BOWSER ROAD, RICHARDSON, TEXAS 75081-2275 TEL (214) 346-6200 FAX (214) 739-0095	
PROJECT	DESIGN	DRAWN	DATE
27379	ESC	AHH	APRIL 2010
FILE	SHEET		
-	S1-09		



Note: Bars wH2 not shown for clarity.  
See sheet 5 of 10 for reinforcement not shown.



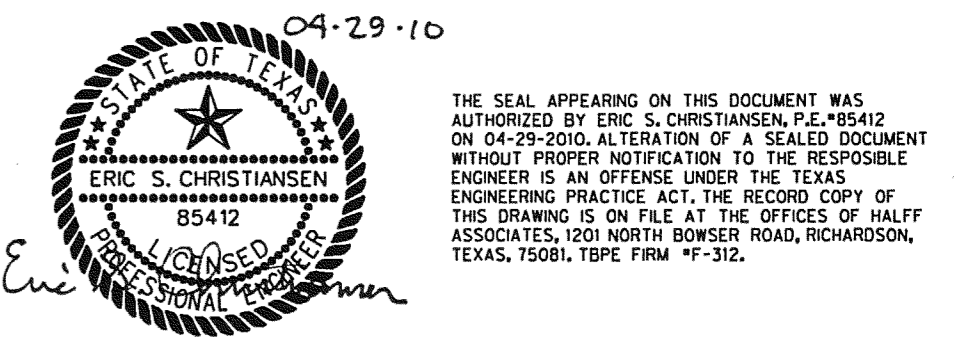
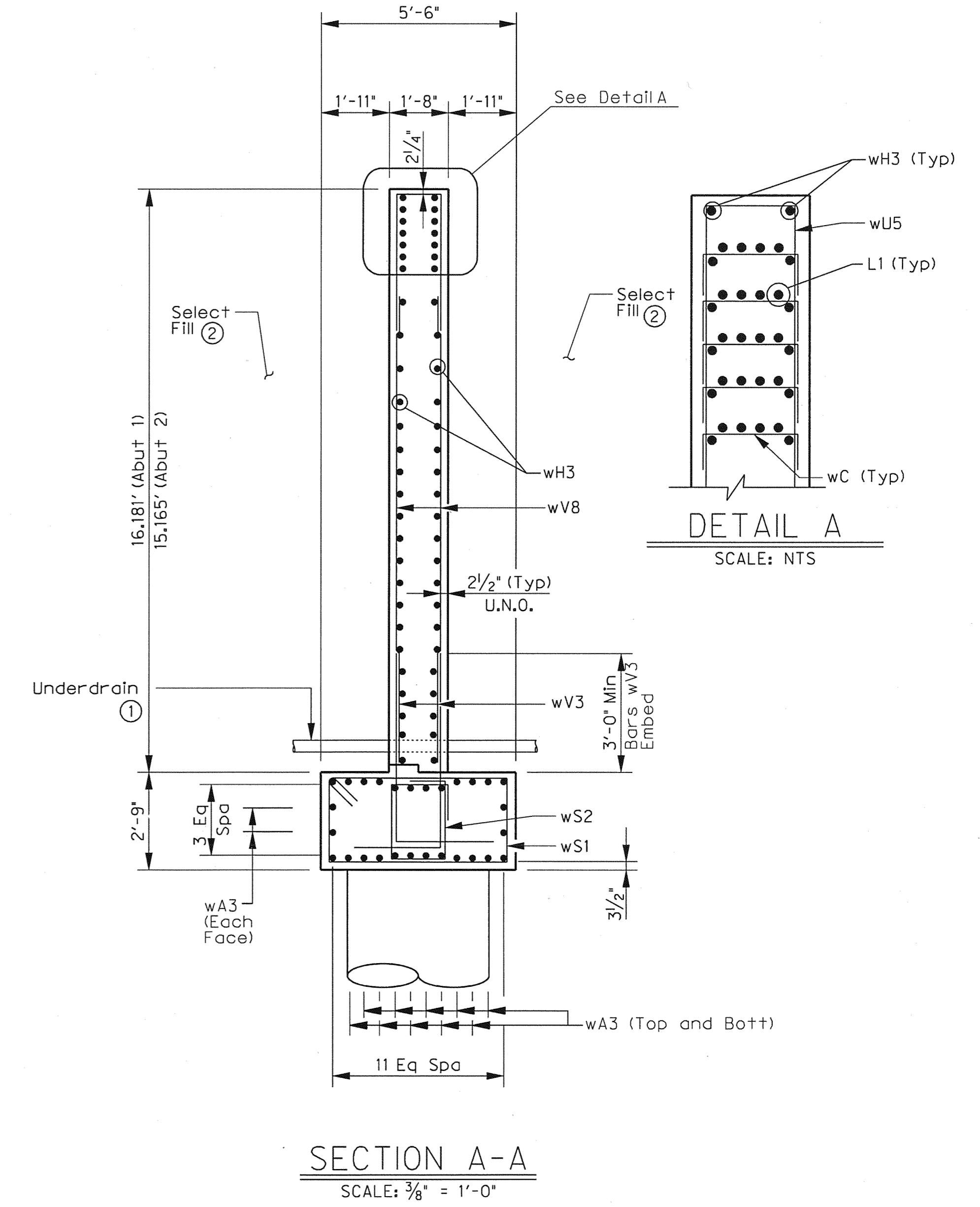
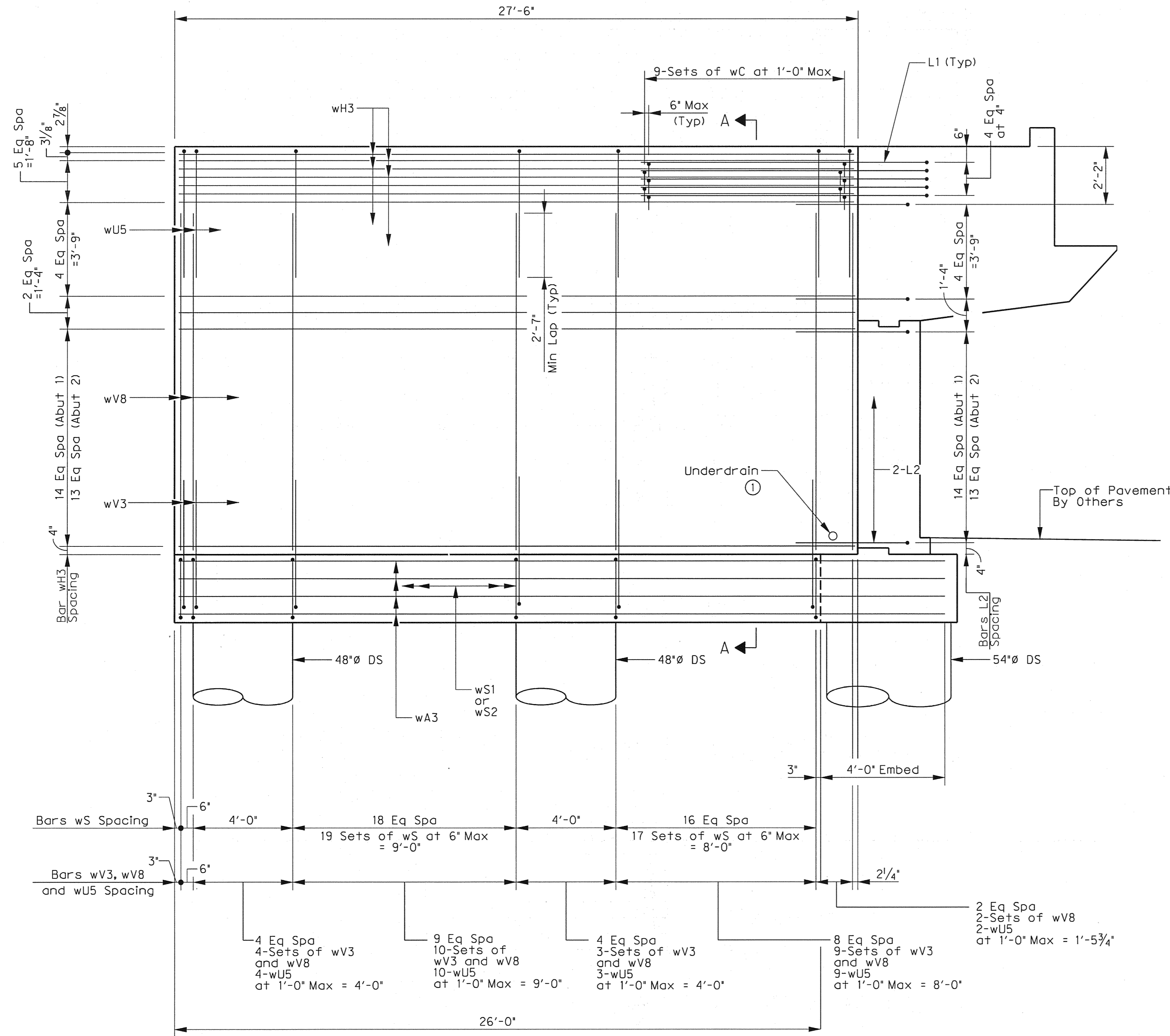
NOTE: Railposts shall be placed plumb and level.

① Bars wG spaced at every other Bar wV7 (horizontally) and every other Bar wZ (vertically). Omit Bars wG where they interfere with the steelembed.



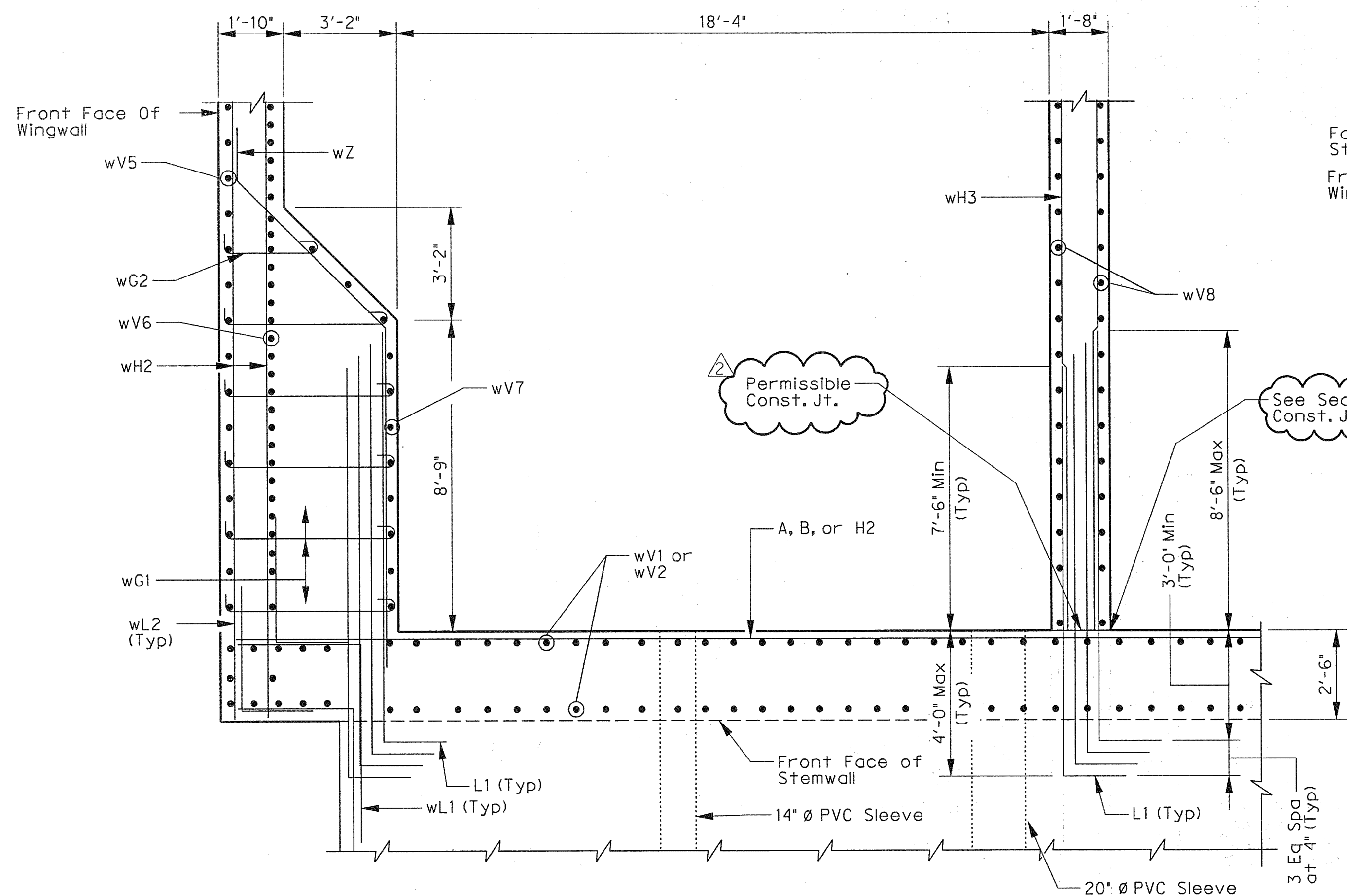
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Addendum #2		ESC	05/19/10
NO.	REVISION	BY	DATE
TOWN OF ADDISON DALLAS COUNTY, TEXAS VITRUVIAN PARK BRIDGES PONTE AVENUE ABUTMENT DETAILS - WINGWALL DETAILS			
		1201 NORTH BOWSER ROAD, RICHARDSON, TEXAS 75081-2275 TEL (214) 346-6200 FAX (214) 739-0095	
PROJECT	DESIGN	DRAWN	DATE
27379	ESC	AHH	APRIL 2010
FILE	SHEET		
-	S1-10		

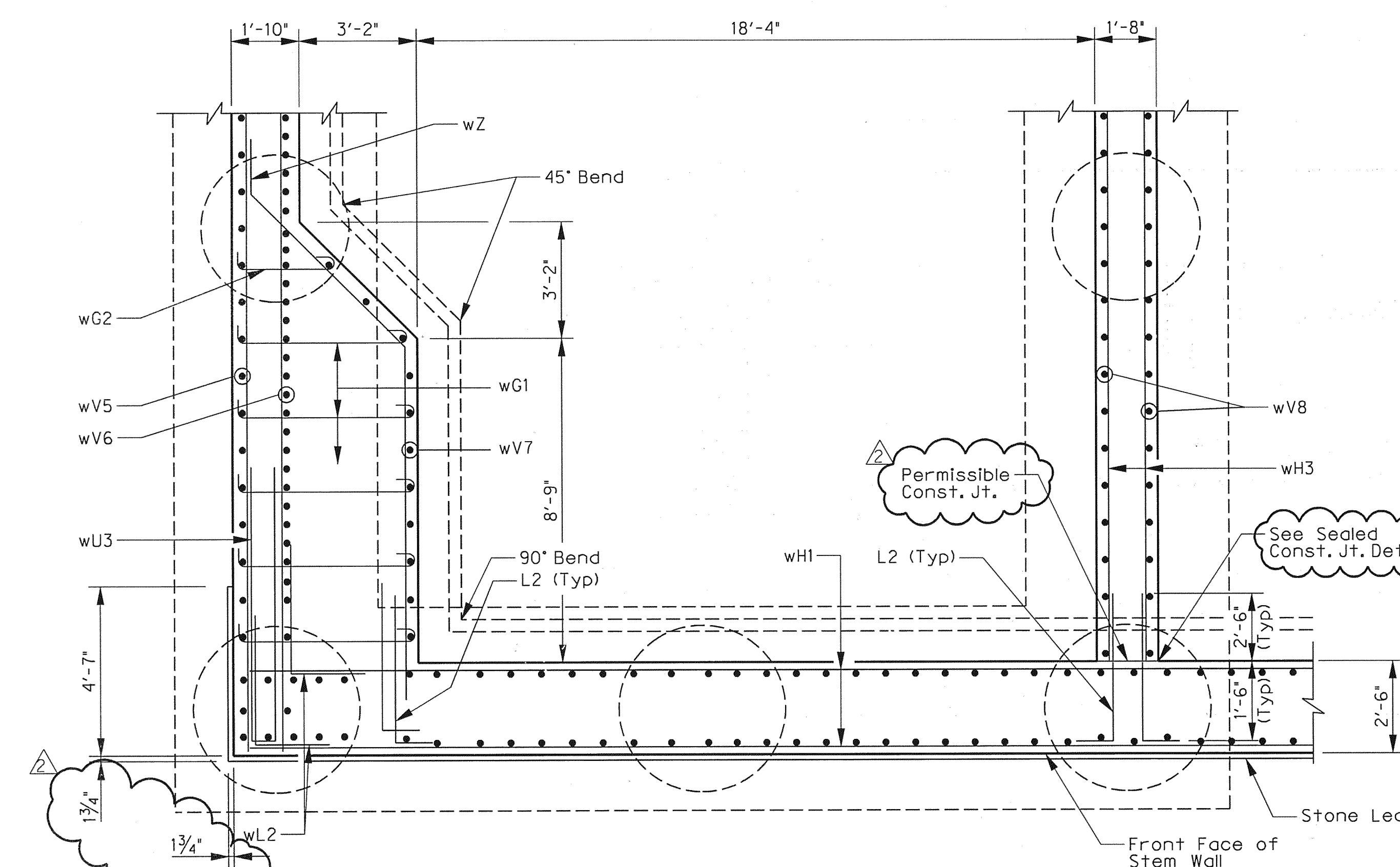


**SUPPORT WALL ELEVATION**  
SCALE: 3/8" = 1'-0"

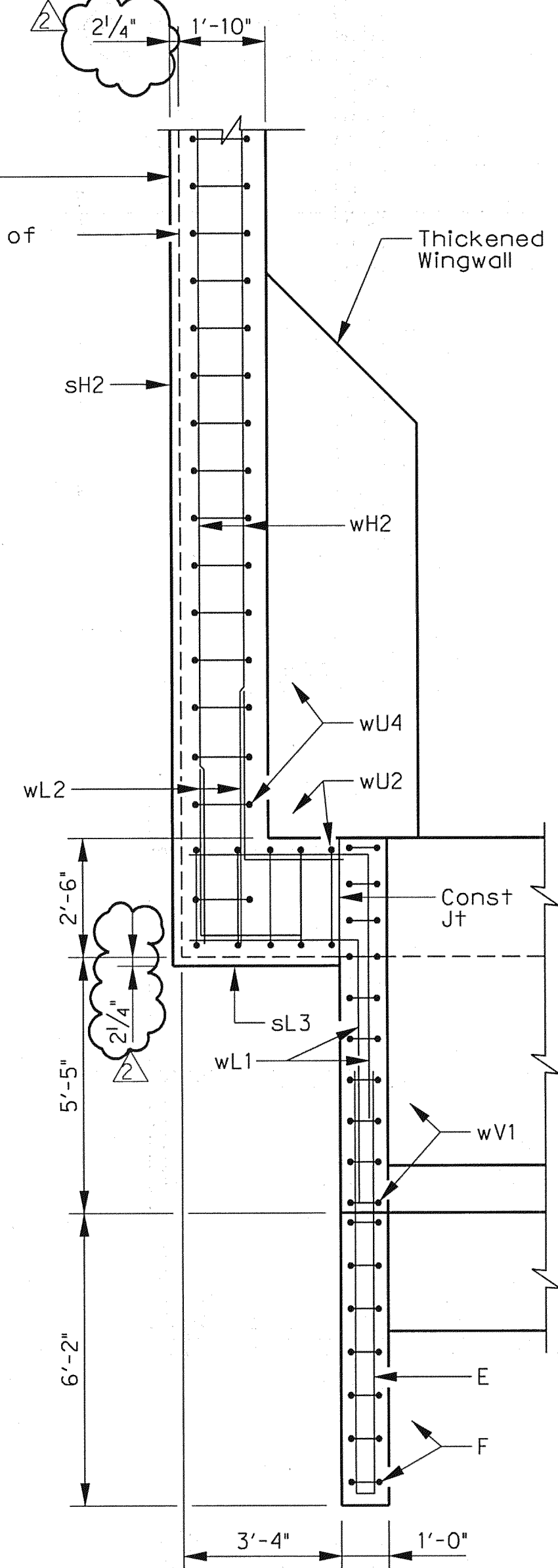
NO.	REVISION	BY	DATE
<p><b>ADDISON TOWN OF ADDISON</b> DALLAS COUNTY, TEXAS</p> <p><b>VITRUVIAN PARK BRIDGES</b> PONTE AVENUE</p> <p><b>ABUTMENT DETAILS -</b> <b>SUPPORT WALL DETAILS</b></p>			
<p><b>HALFF</b> 1201 NORTH BOWSER ROAD, RICHARDSON, TEXAS 75081-2275 TEL (214) 346-6200 FAX (214) 739-0095</p>			
PROJECT	DESIGN	DRAWN	DATE
27379	ESC	AHH	APRIL 2010
FILE	SHEET		
-	S1-11		



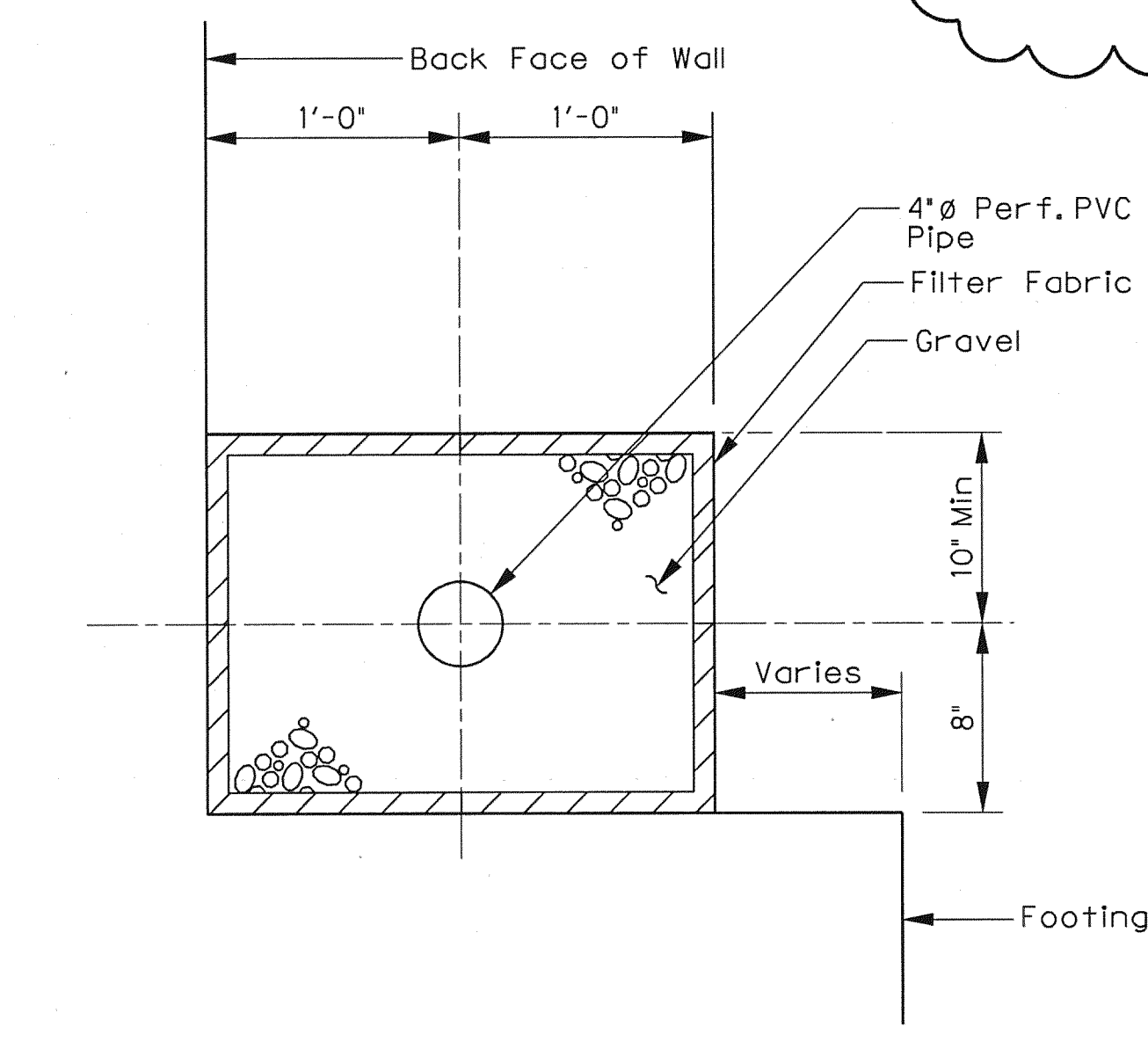
**WALL CORNER DETAILS (TOP)**  
SCALE: 3/8" = 1'-0"



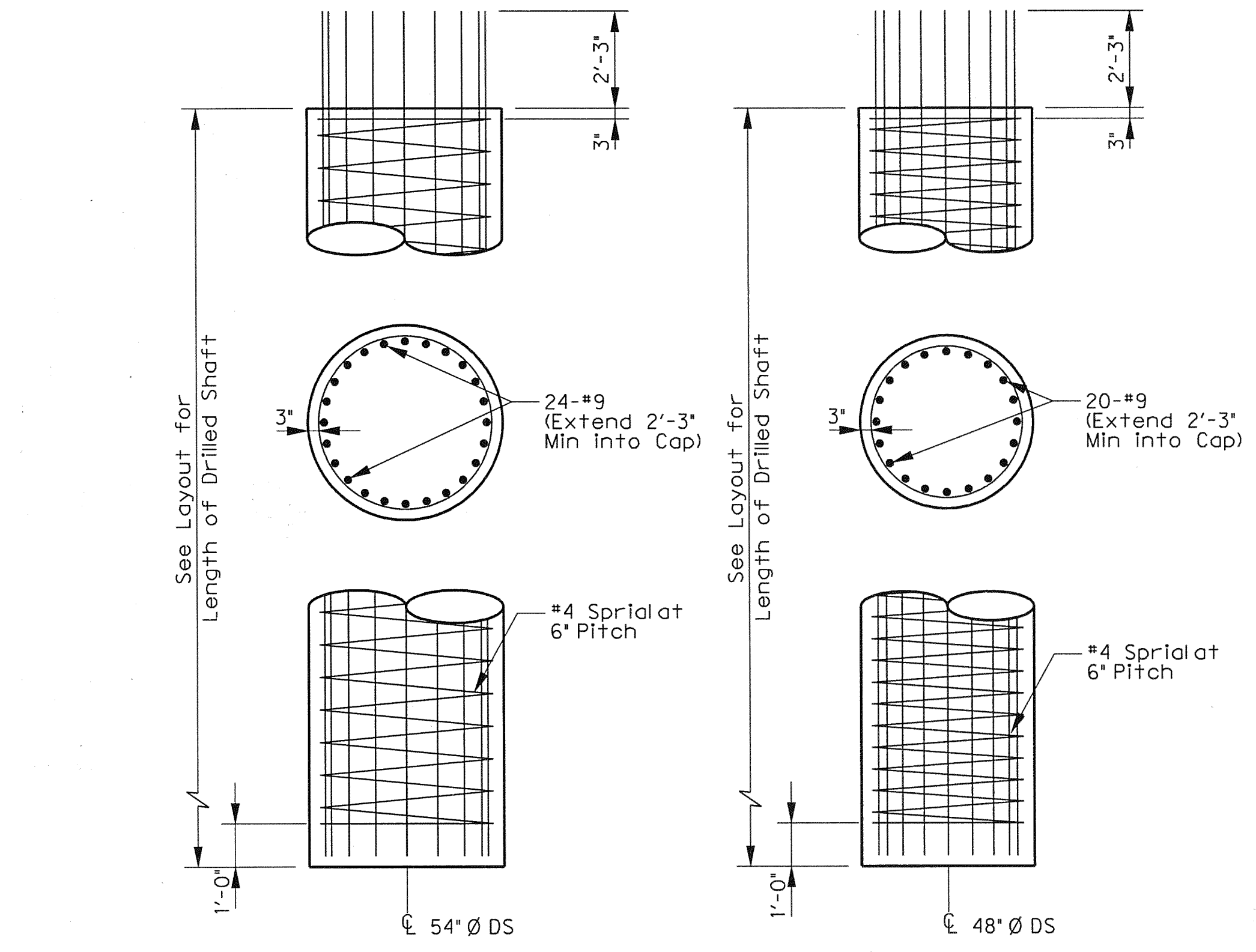
**WALL CORNER DETAILS (BOTTOM)**  
SCALE: 3/8" = 1'-0"



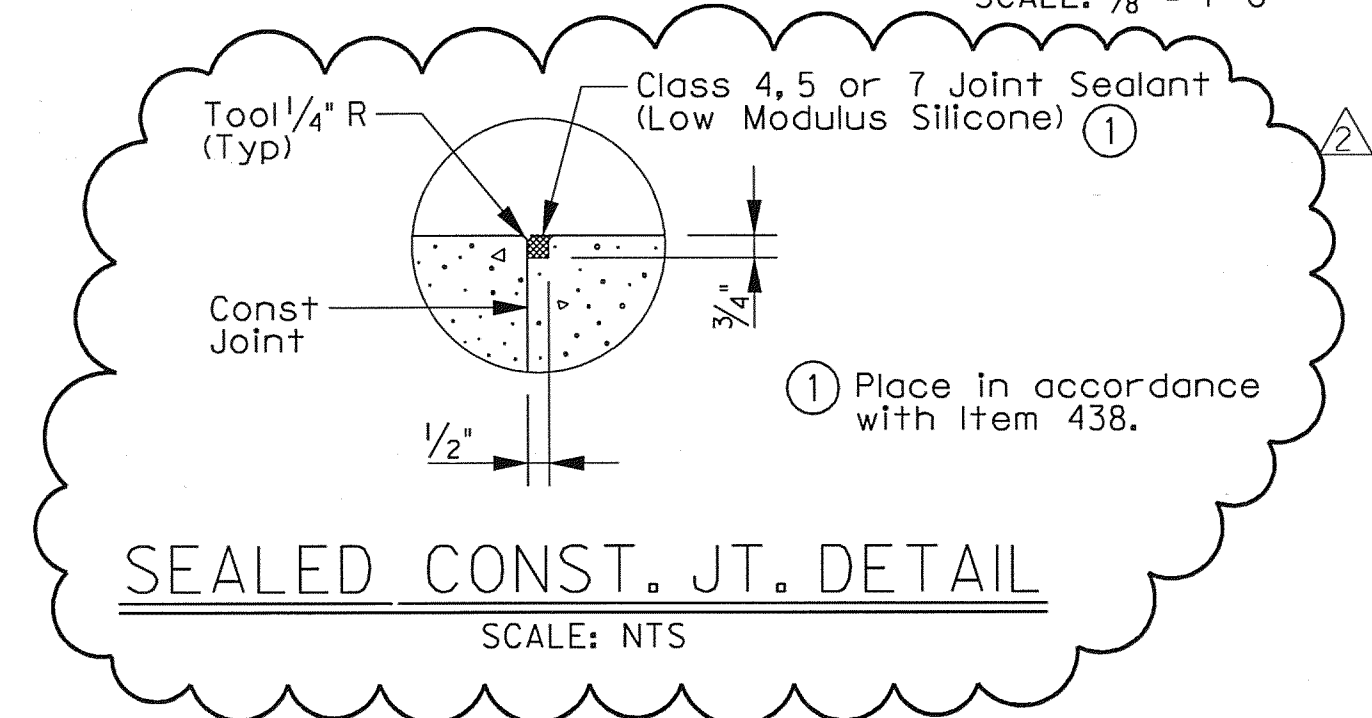
**CAP END DETAIL**  
SCALE: 3/8" = 1'-0"



**UNDERDRAIN DETAIL**  
SCALE: N.T.S.



**DRILLED SHAFT DETAILS**  
SCALE: 3/8" = 1'-0"

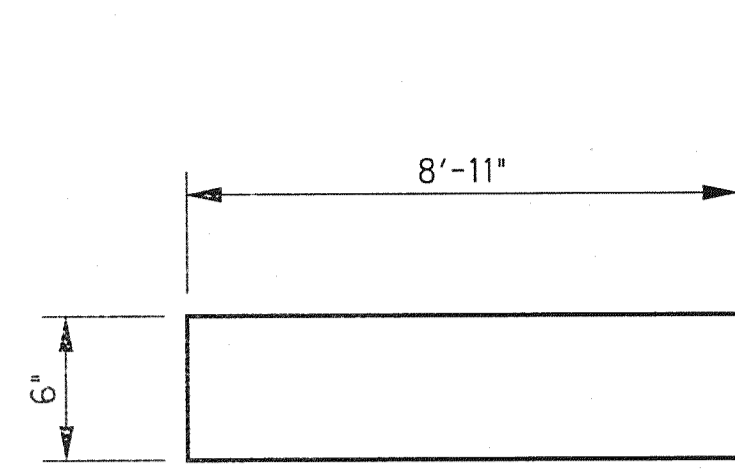


**SEALED CONST. JT. DETAIL**  
SCALE: N.T.S.

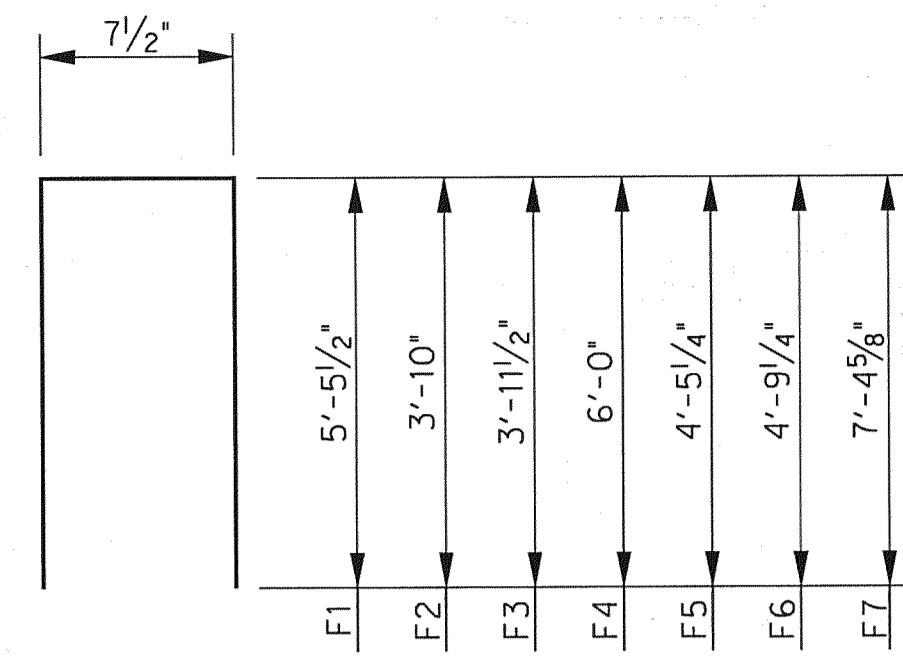


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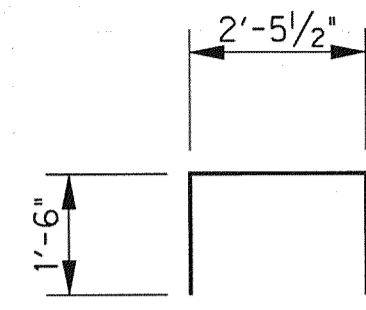
Addendum #2		ESC	05/19/10
NO.	REVISION	BY	DATE
<b>TOWN OF ADDISON</b> DALLAS COUNTY, TEXAS			
<b>VITRUVIAN PARK BRIDGES</b> PONTE AVENUE			
<b>ABUTMENT DETAILS -</b> <b>WALL CORNER &amp; DR. SHAFTS</b>			
		1201 NORTH BOWSER ROAD, RICHARDSON, TEXAS 75081-2275 TEL (214) 346-6200 FAX (214) 739-0095	
PROJECT	DESIGN	DRAWN	DATE
27379	ESC	AHH	APRIL 2010
FILE	SHEET		
-	S1-12		



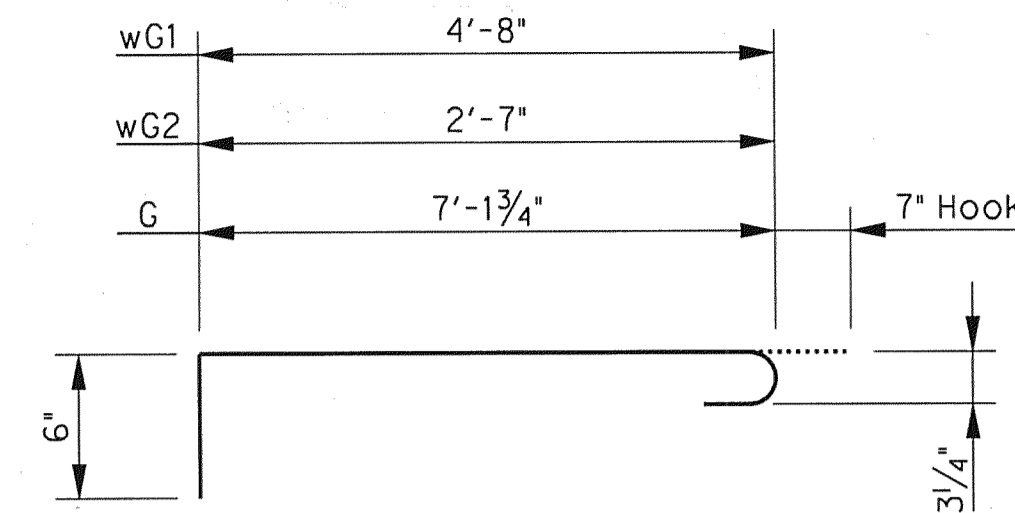
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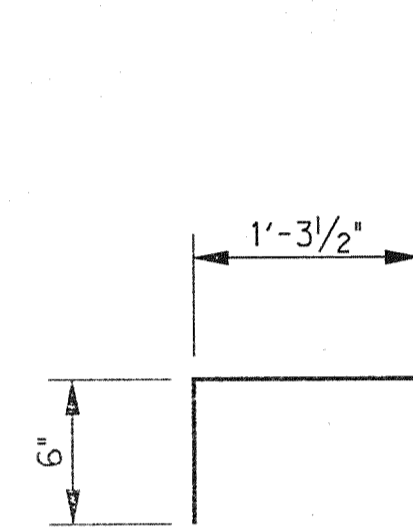
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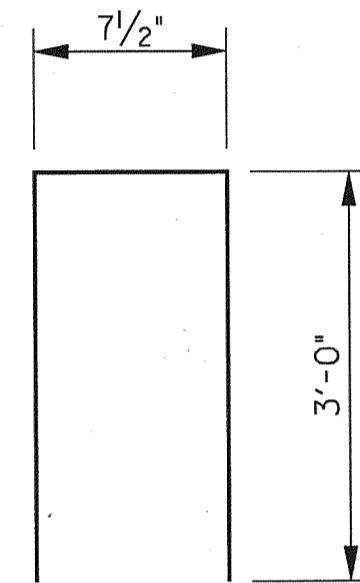
BARS sU



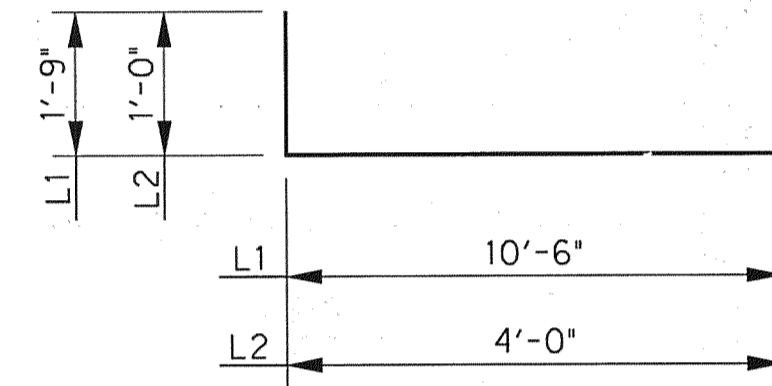
BARS G & wG



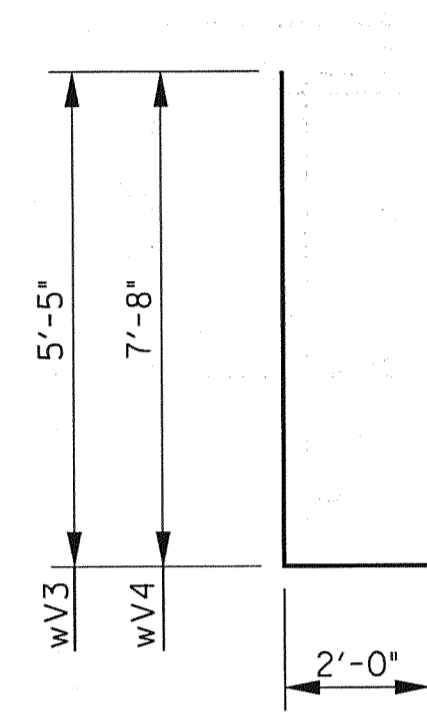
BARS wC



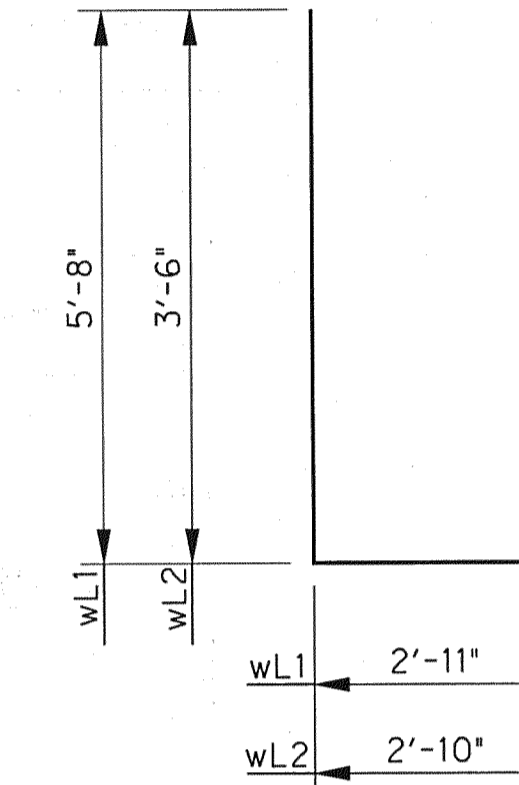
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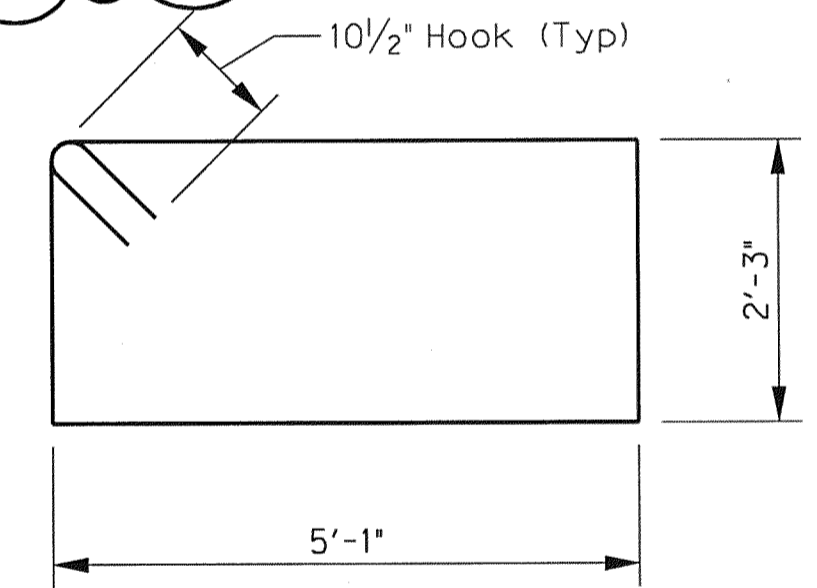
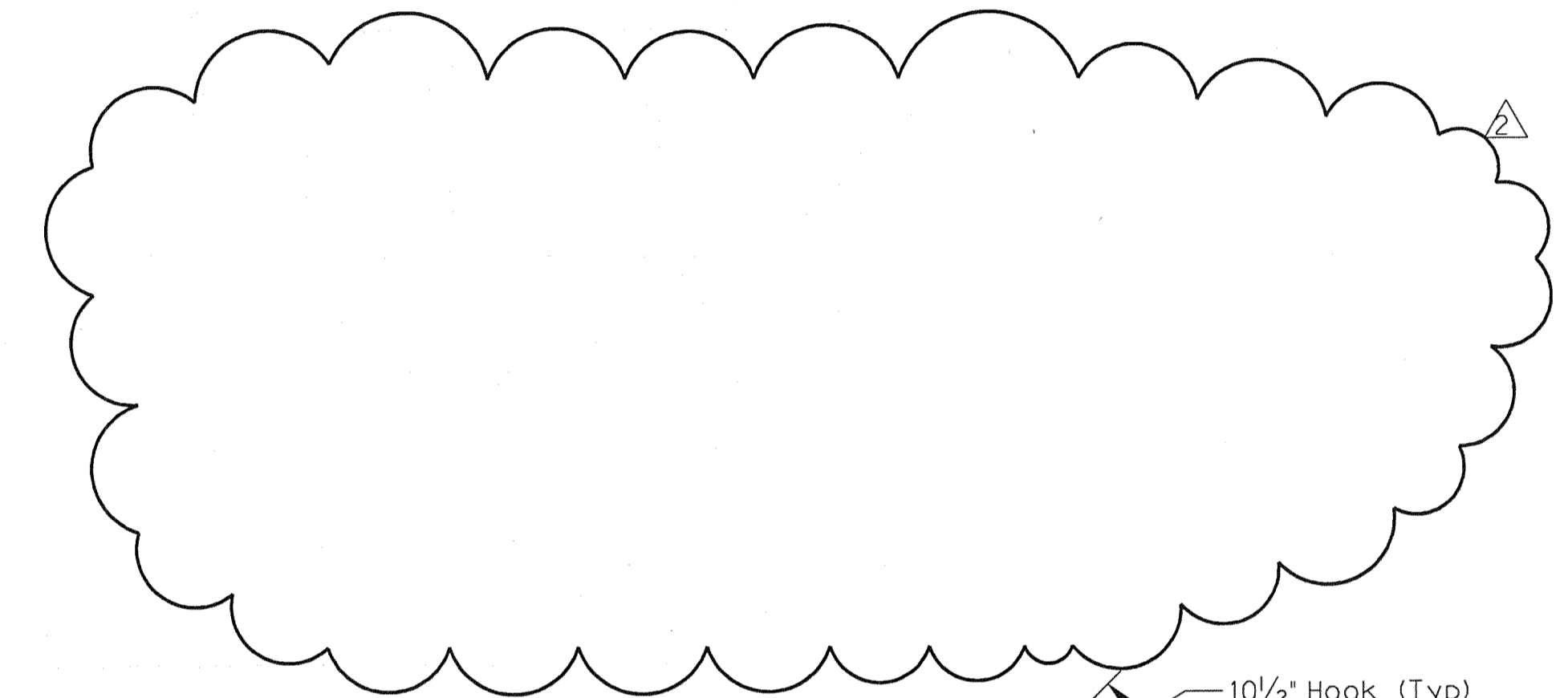
BARS L



BARS wV3 & wV4



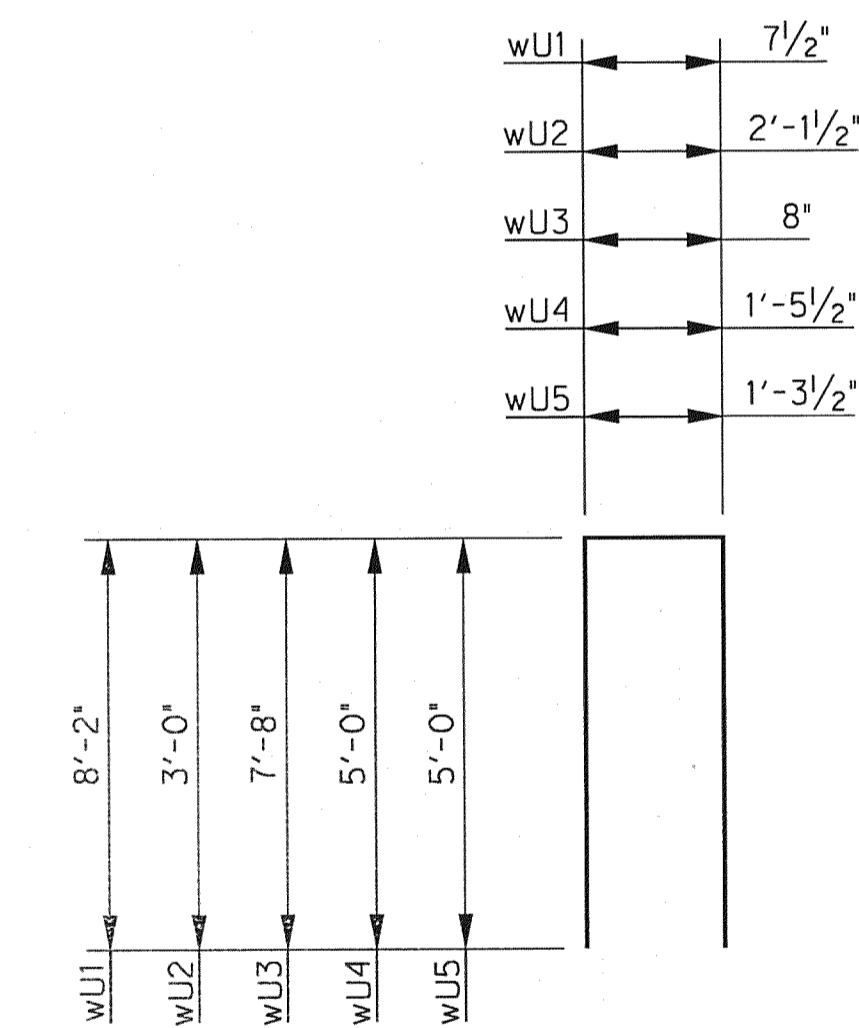
BARS wL



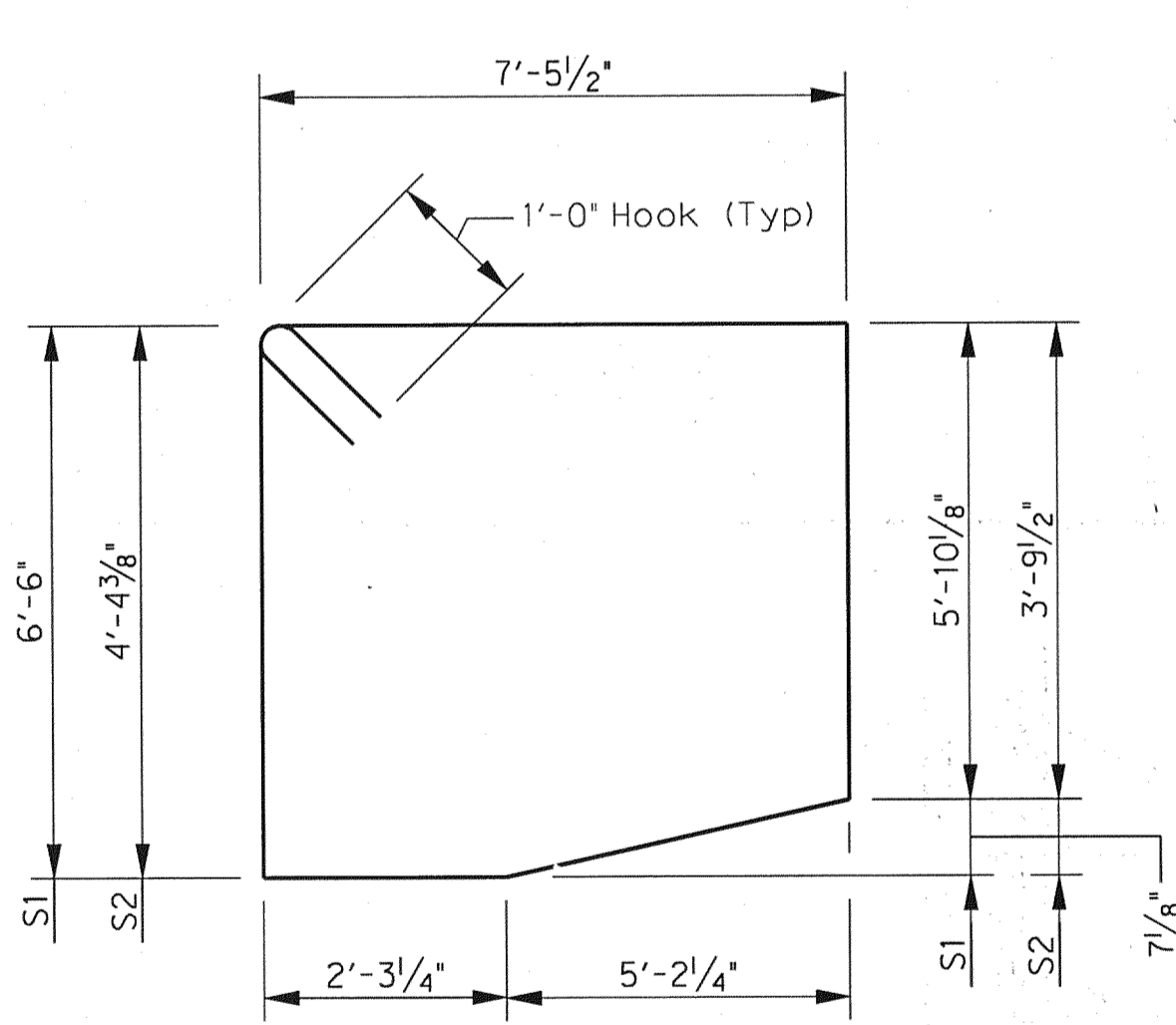
BARS wS1



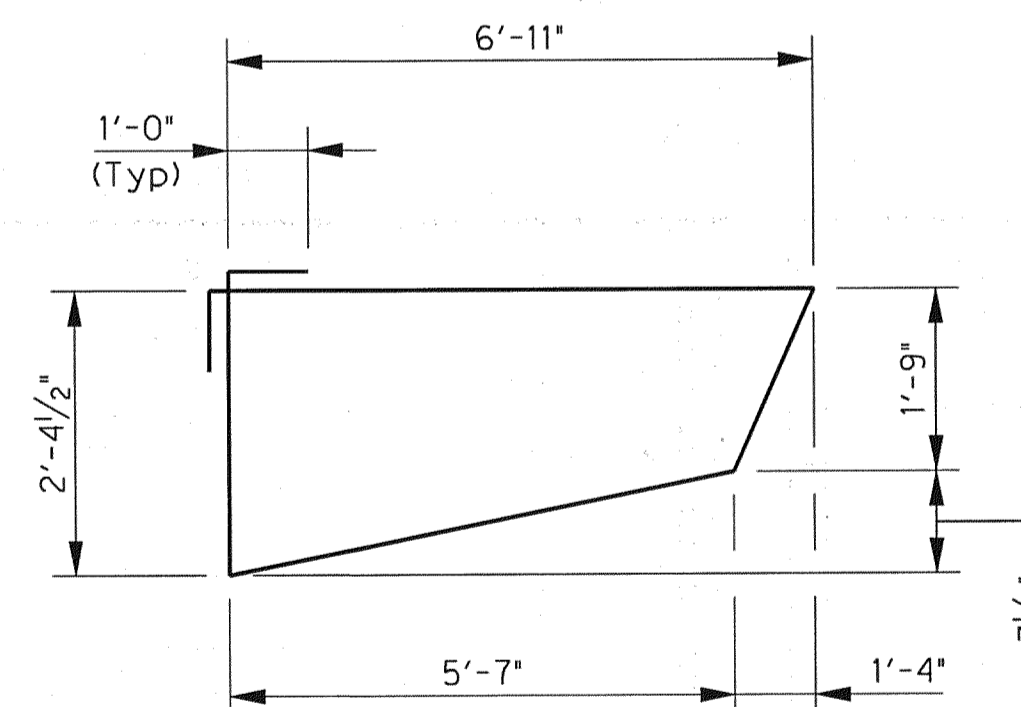
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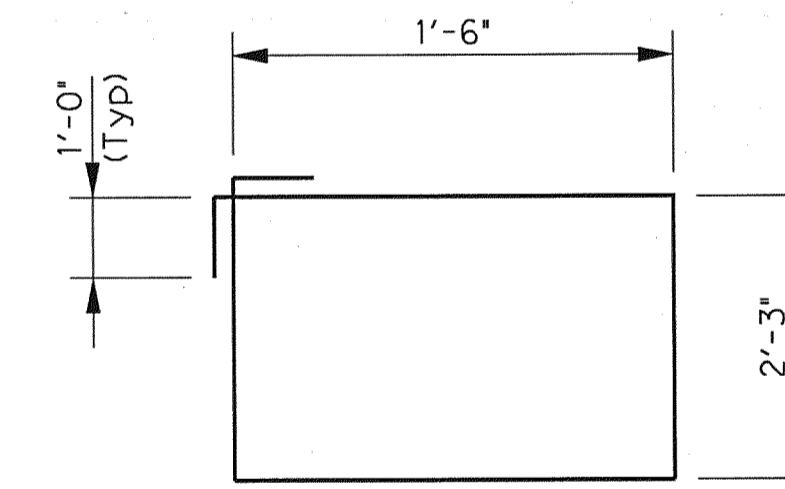
BARS wU



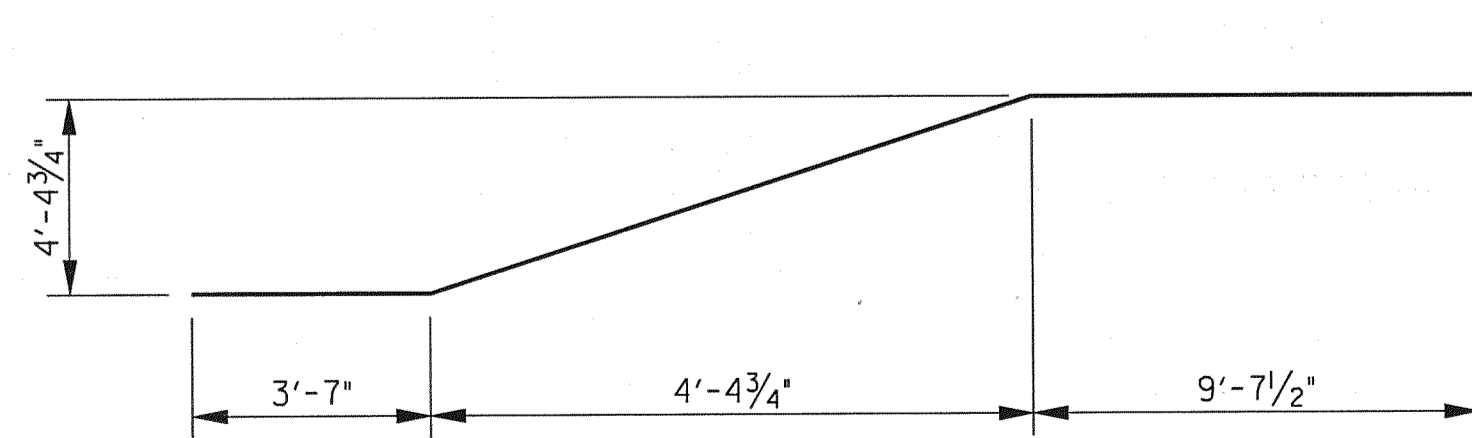
BARS S



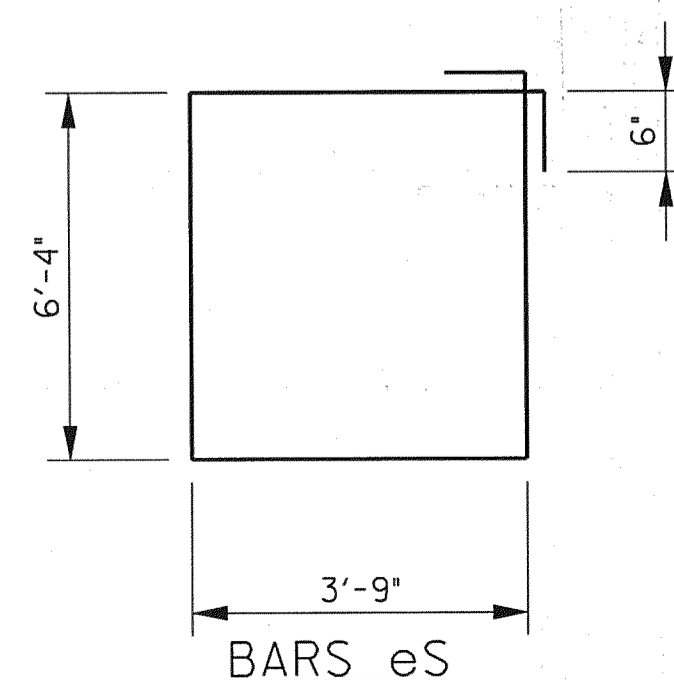
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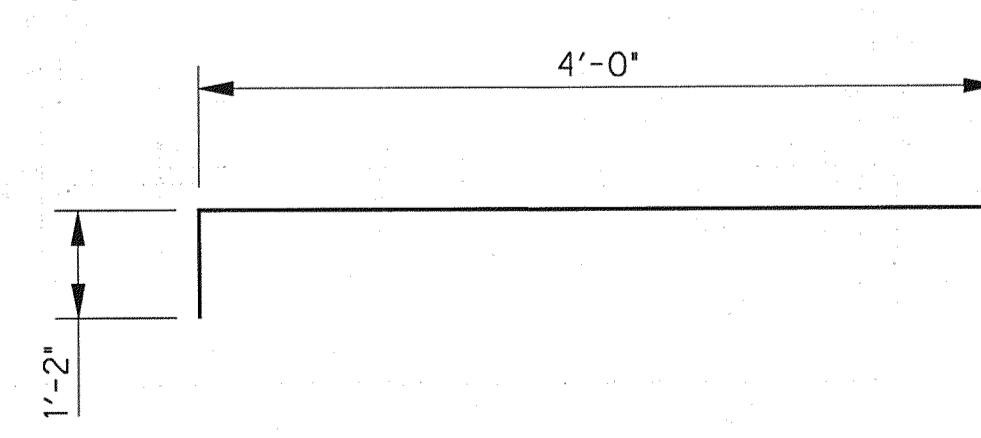
BARS wS2



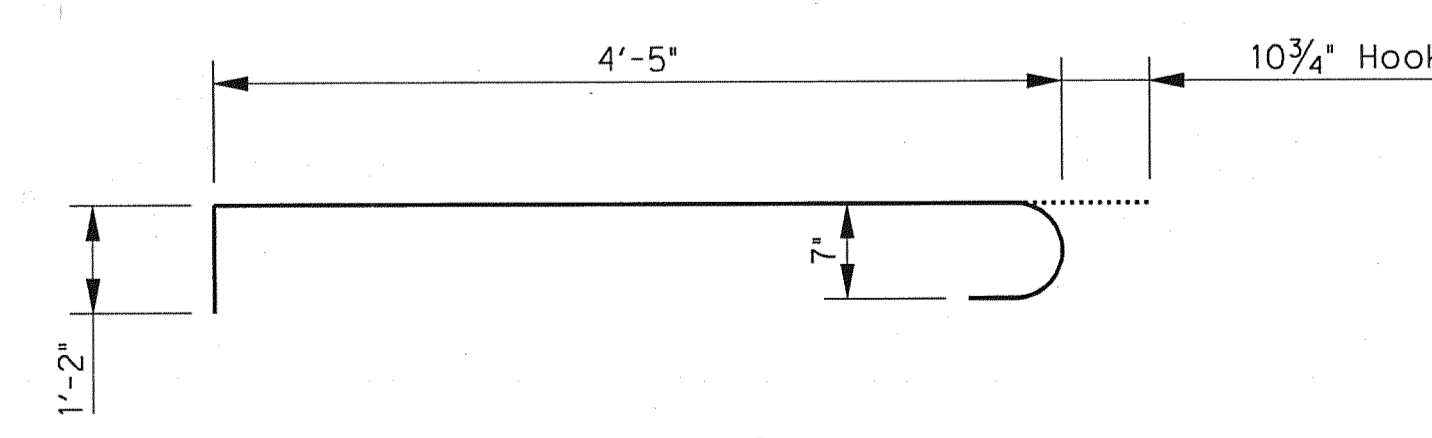
BARS wZ



BARS eS



BARS eH1



BARS eH2

Addendum #2		ESC	05/19/10
NO.	REVISION	BY	DATE
TOWN OF ADDISON DALLAS COUNTY, TEXAS			
VITRUVIAN PARK BRIDGES PONTE AVENUE			
<b>ABUTMENT DETAILS - BAR BENDING DIAGRAMS</b>			
		1201 NORTH BOWSER ROAD, RICHARDSON, TEXAS 75081-2275 TEL (214) 346-6200 FAX (214) 739-0095	
PROJECT	DESIGN	DRAWN	DATE
27379	ESC	AHH	APRIL 2010
FILE	SHEET		
-	S1-13		

USER: ah2140

OFFICE: RCH

PROJECT # 27379

FILE: 27379-SC-PONTEB-AB01-10.dgn

TIME: 2:16:50 PM

DATE: 5/19/2010

BAR SCHEDULE ~ ONE CAP

Table with 6 columns: Bar, Type, No., Size, Length, Weight. Lists various bar types (A, B, D, E, F1-F7, G, H1-H3, L1-L2, M, N, S1-S2, V, eH1, eH2, eS, wA1-wA3, wC, wG1-wG2, wH1-wH3, wL1-wL2, wS1-wS2, wU1-wU5, wV1-wV8, wZ) and their specifications.

ESTIMATED QUANTITIES

Table with 3 columns: Item, Unit, QUANTITY. Lists items like Drilled Shaft (48 IN), Drilled Shaft (54 IN), CI F Conc (Abut) Mass Pl, Reinf Steel, Misc Str Steel, Steel Pipe (18 IN), Steel Pipe (12 IN), PVC Pipe Underdrain (4 IN), PVC Pipe Drain (4 IN), PVC Sleeve (20 IN), PVC Sleeve (14 IN).

BAR SCHEDULE ~ ONE CAP

Table with 6 columns: Bar, Type, No., Size, Length, Weight. Lists various bar types (A, B, D, E, F1-F7, G, H1-H3, L1-L2, M, N, S1-S2, V, eH1, eH2, eS, wA1-wA3, wC, wG1-wG2, wH1-wH3, wL1-wL2, wS1-wS2, wU1-wU5, wV1-wV8, wZ) and their specifications.

ESTIMATED QUANTITIES

Table with 3 columns: Item, Unit, QUANTITY. Lists items like Drilled Shaft (48 IN), Drilled Shaft (54 IN), CI F Conc (Abut) Mass Pl, Reinf Steel, Misc Str Steel, Steel Pipe (18 IN), Steel Pipe (12 IN), Pipe Underdrain (4 IN), Pipe Drain (4 IN), PVC Sleeve (20 IN), PVC Sleeve (14 IN).

- ① Bars L1 shall be Grade 75 ksi.
② Quantity includes one 6'-1" splice.
③ Quantity includes one 1'-8" splice.
④ Quantity includes one 5'-8" splice.
⑤ Quantity includes one 2'-6" Splice
⑥ Average Length
⑦ For Contractor's information only.
⑧ Use Type II Cement
⑨ Quantities includes pipe off of bridge extending to the limits of approach slab.
⑩ PVC pipe underdrains, drains, and sleeves shall be subsidiary to the abutment concrete item 420.

CONTROL ELEVATIONS

Table with 13 columns: Abutment, Station, Elev A, Elev B, Elev C, Elev D, Elev E, Elev F, Elev G, Elev H, Elev J, Elev K, Elev L. Shows elevation data for abutments 1 and 2.

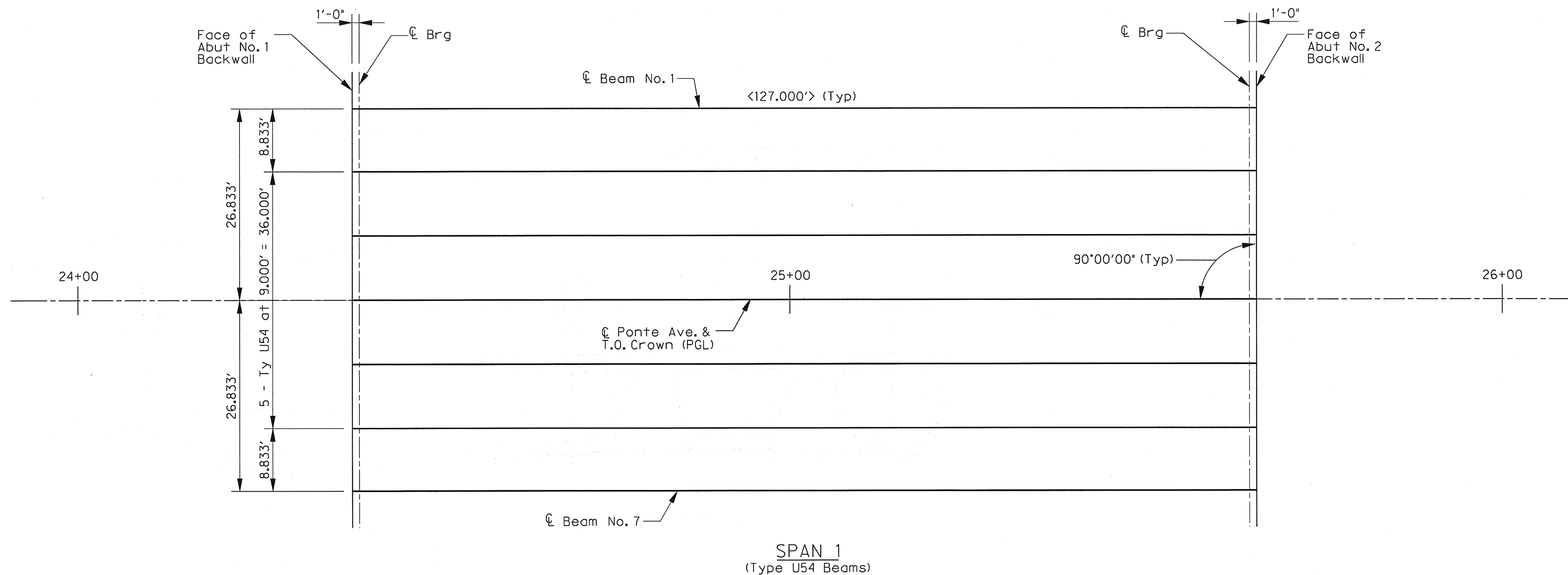
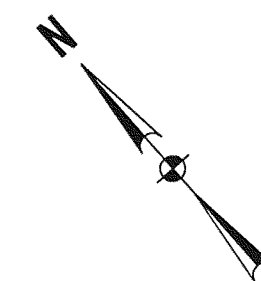
BEARING SEAT ELEVATIONS

Table with 10 columns: Abutment, Station, Position, Bm No. 1, Bm No. 2, Bm No. 3, Bm No. 4, Bm No. 5, Bm No. 6, Bm No. 7. Shows bearing seat elevations for abutments 1 and 2.



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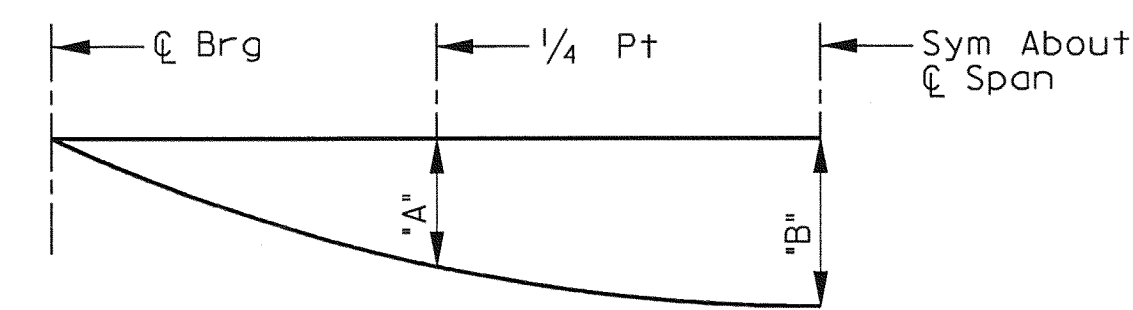
Project information block including Addendum #2, Revision, Date, and project details for TOWN OF ADDISON, DALLAS COUNTY, TEXAS, VITRUVIAN PARK BRIDGES, PONTE AVENUE. Includes HALFF logo and contact information.



**FRAMING PLAN**

SCALE: 1" = 10'-0"

Dimensions shown thus <XXX.XXX'> represents horizontal beam length between front faces of abutment backwalls.

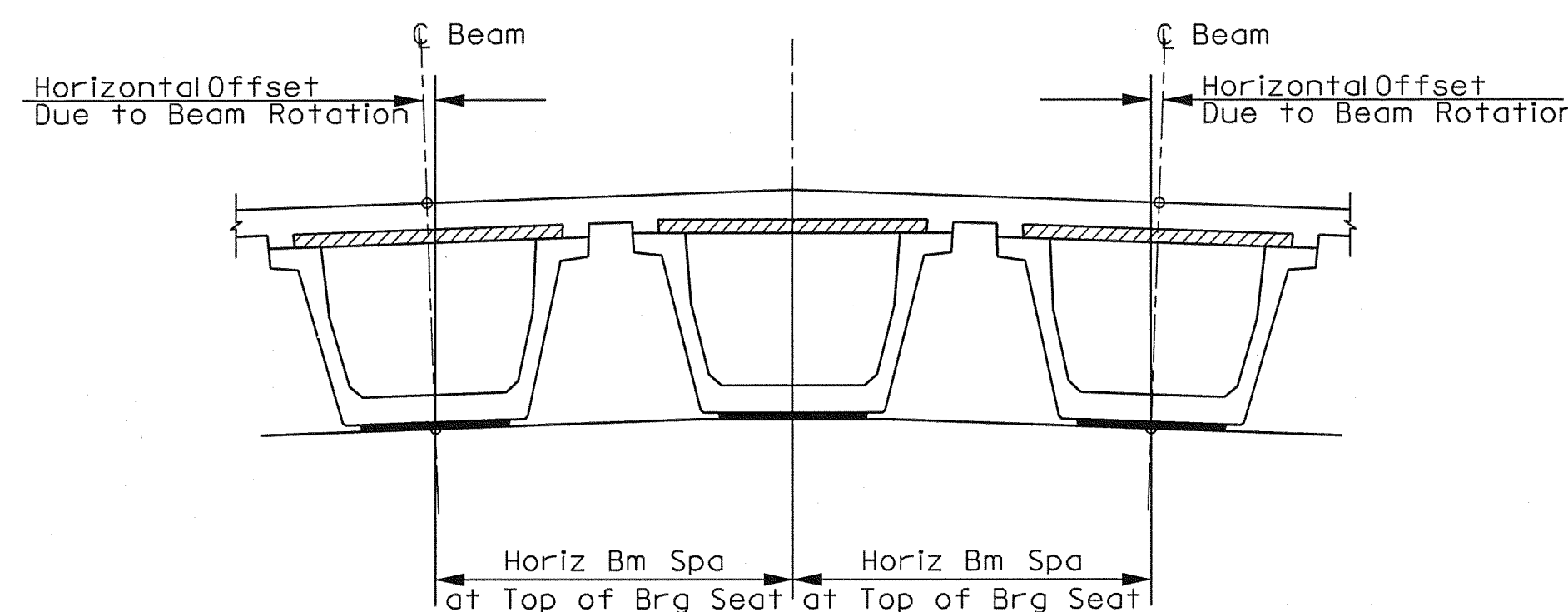


**DEAD LOAD DEFLECTION DIAGRAM**

Note: Deflections shown are due to concrete slab only (Ec = 5 x 10<sup>6</sup> psi). Calculated deflections shown are theoretical; actual dimensions may be less.

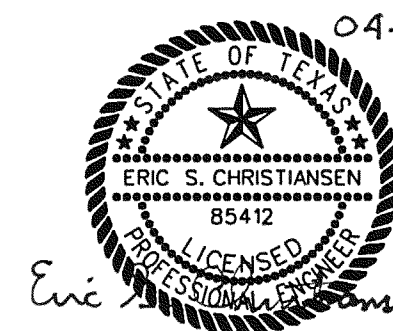
TABLE OF BEAM LENGTHS AND DEAD LOAD DEFLECTIONS				
Span No.	Beam No.	"A"	"B"	Length
		FT	FT	
1	1 & 7	0.156	0.219	126.500
	2 & 6	0.133	0.187	126.500
	3 & 5	0.136	0.191	126.500
	4	0.136	0.191	126.500

Note: All girder lengths are horizontal length end to end of girder.



**BEAM SPACING DETAIL**

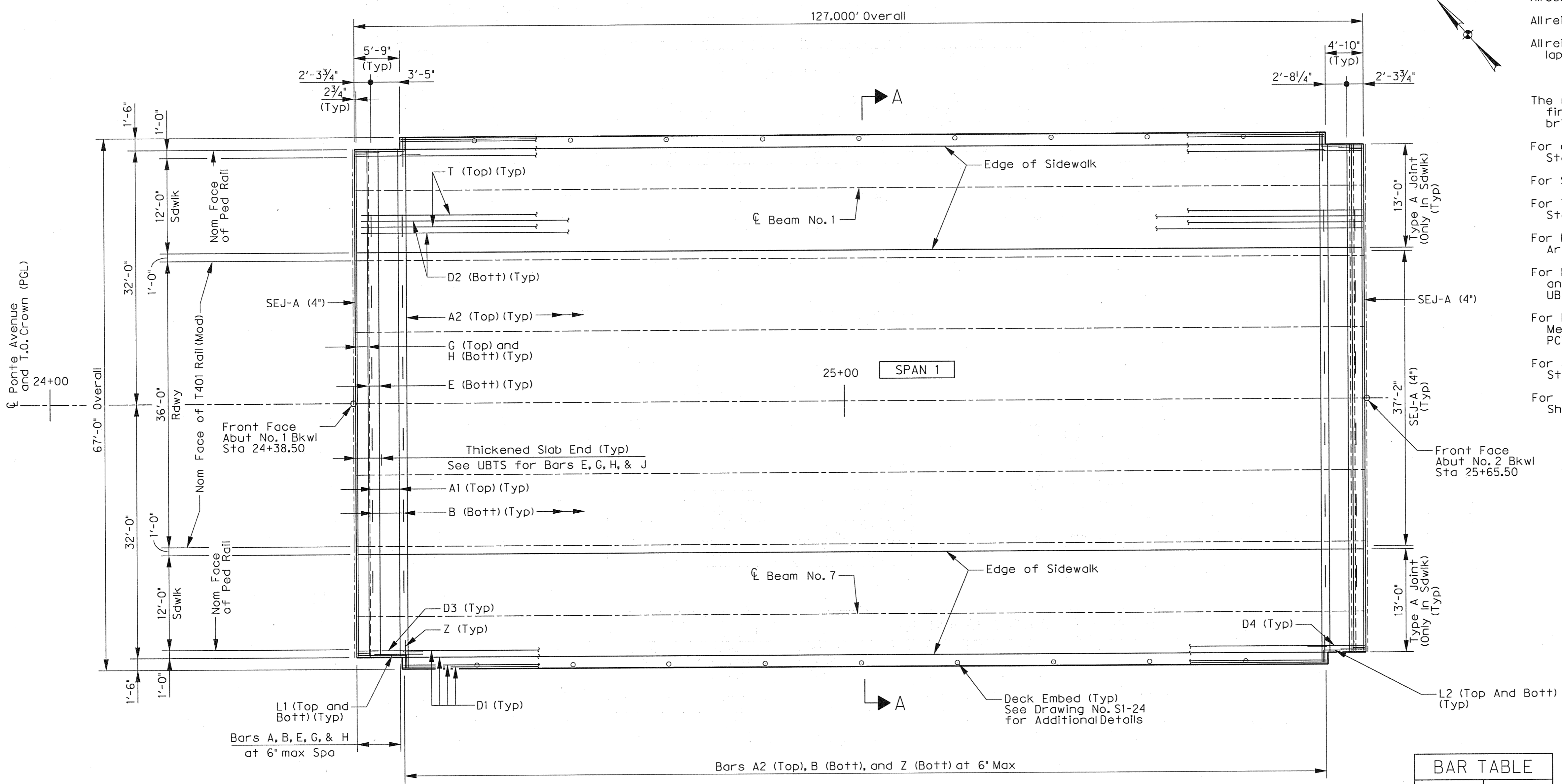
SCALE: NTS



04-29-10

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NO.	REVISION	BY	DATE
<b>TOWN OF ADDISON</b> DALLAS COUNTY, TEXAS			
<b>VITRUVIAN PARK BRIDGES</b> PONTE AVENUE			
<b>FRAMING PLAN</b>			
<b>HALFF</b>			
1201 NORTH BOWSER ROAD, RICHARDSON, TEXAS 75081-2275 TEL (214) 346-6200 FAX (214) 739-0095			
PROJECT	DESIGN	DRAWN	DATE
27379	ESC	AHH	APRIL 2010
FILE	SHEET		
-	S1-15		



**General Notes:**

All concrete shall be Class S, f'c = 4,000 psi.

All reinforcing shall be grade 60.

All reinforcing steel shall be epoxy coated. Bar laps, where required, shall be as follows:  
 #4 = 2'-1"  
 #5 = 2'-7"

The minimum rate of concrete placing and finishing shall not be less than 30 feet of bridge deck per hour.

For chamfer limits and drip bead detail, see Standard UBMS.

For Section A-A, see Sheet 2 of 2.

For Traffic Rail Details not shown, see Standard T401 (Mod).

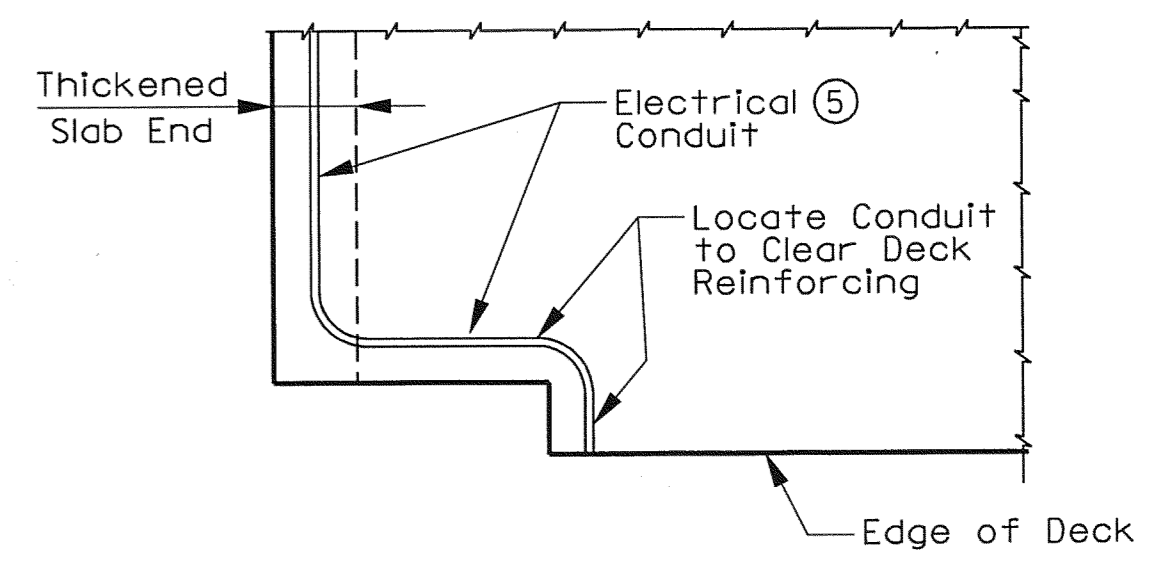
For Pedestrian Rail Details not shown, see Landscape Architecture details sheets.

For Beam, Bearing Pad, Misc. Slab and Thickened Slab and details not shown See Standards UBD, UBEB (Mod), UBMS, and UTBS.

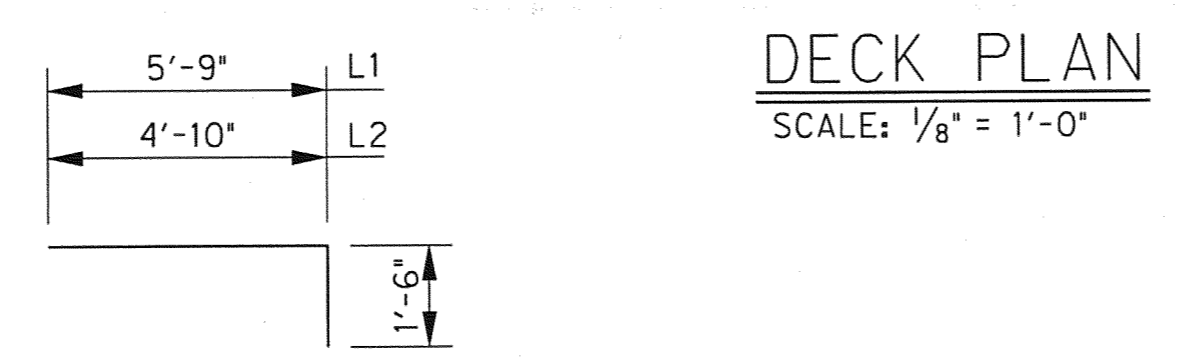
For Prestressed Concrete Panel and Permanent Metal Deck Form details not shown, see Standards PCP and PMDF.

For sealed expansion joint details not shown, see Standard SEJ-A.

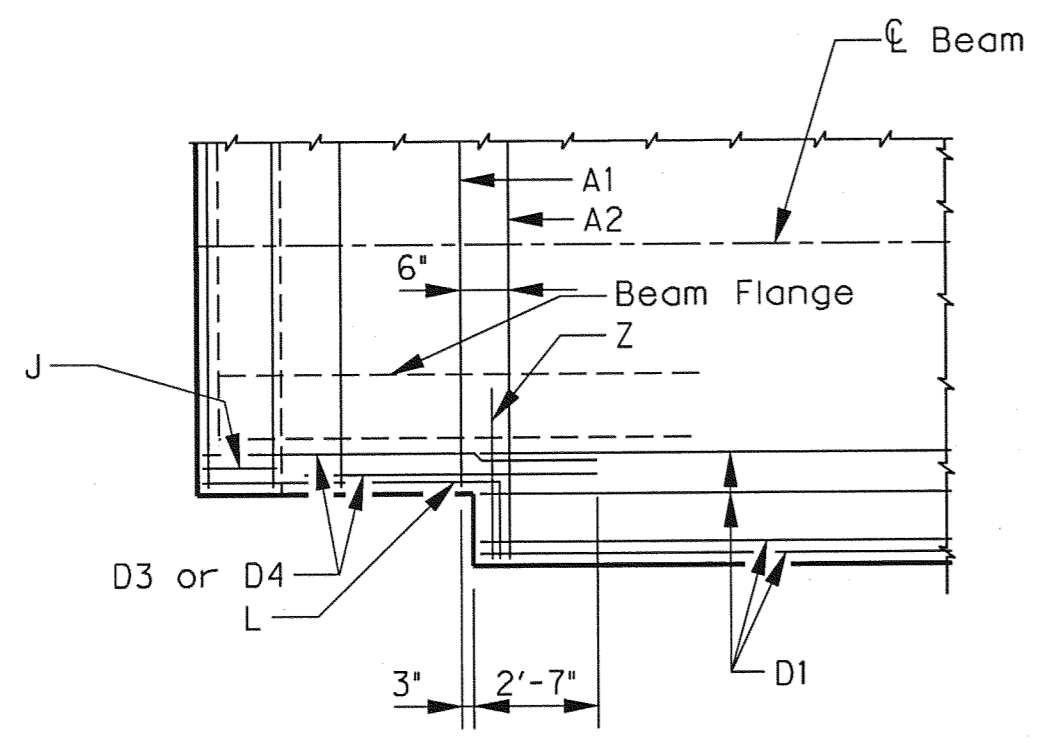
For quantities not shown, see Estimated Quantity Sheet (Drawing No. S1-04).



**DECK CONDUIT DETAIL**  
SCALE: 1/4" = 1'-0"



**DECK PLAN**  
SCALE: 1/8" = 1'-0"



**DECK CORNER DETAIL**  
SCALE: 1/4" = 1'-0"

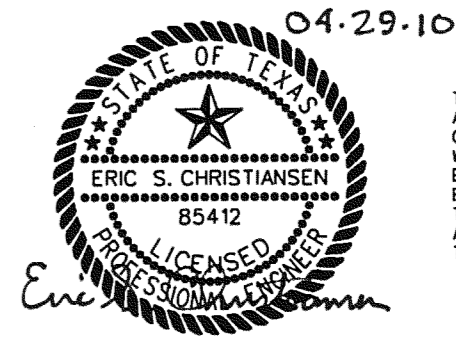
BAR TABLE	
Bar	Size
A1-A2	#5
B	#5
D1-D4	#5
E	#5
G	#5
H	#6
J	#5
L1-L2	#5
P	#3
sA	#3
sT	#3
T	#4
UP	#4
Z	#4

- ① For contractor's information only.
- ② Reinforcing steel weight is calculated using an approximate factor of 6.8 lbs/sf.
- ③ Quantity includes sidewalk on approach slab.
- ④ Theoretical dimension.
- ⑤ See Electrical Details. Run conduit through center of thickened slab end.
- ⑥ Sidewalk drains are subsidiary to Reinforced Concrete Slab, Item 422.
- ⑦ Quantity includes all angles and plates.

**BARS L**

SPAN NO.	BEAM NO.	"X" AT C.L. BRG	"Z" AT C.L. SPAN
1	All	1'-0"	10"

SPAN NO.	REINF CONCRETE SLAB	PRSTR CONCRETE BEAM (U54)	① CLASS S CONCRETE (SLAB)	③ CLASS S ① CONCRETE (SDWLK)	REINF STEEL	SDWLK DRAIN	① STEEL PIPE (12 IN)	① STEEL PIPE (18 IN)	⑦ MISC STEEL
	SF	LF	CY	CY	LB	LF	LF	LF	LB
1	8,477	885.50	238.9	83.6	57,645	253	254	254	16,601
TOTAL	8,477	885.50	238.9	83.6	57,645	253	254	254	16,601



04-29-10

**Eric S. Christensen**  
PROFESSIONAL ENGINEER

NO. \_\_\_\_\_ REVISION \_\_\_\_\_ BY \_\_\_\_\_ DATE \_\_\_\_\_

**Addison TOWN OF ADDISON**  
DALLAS COUNTY, TEXAS

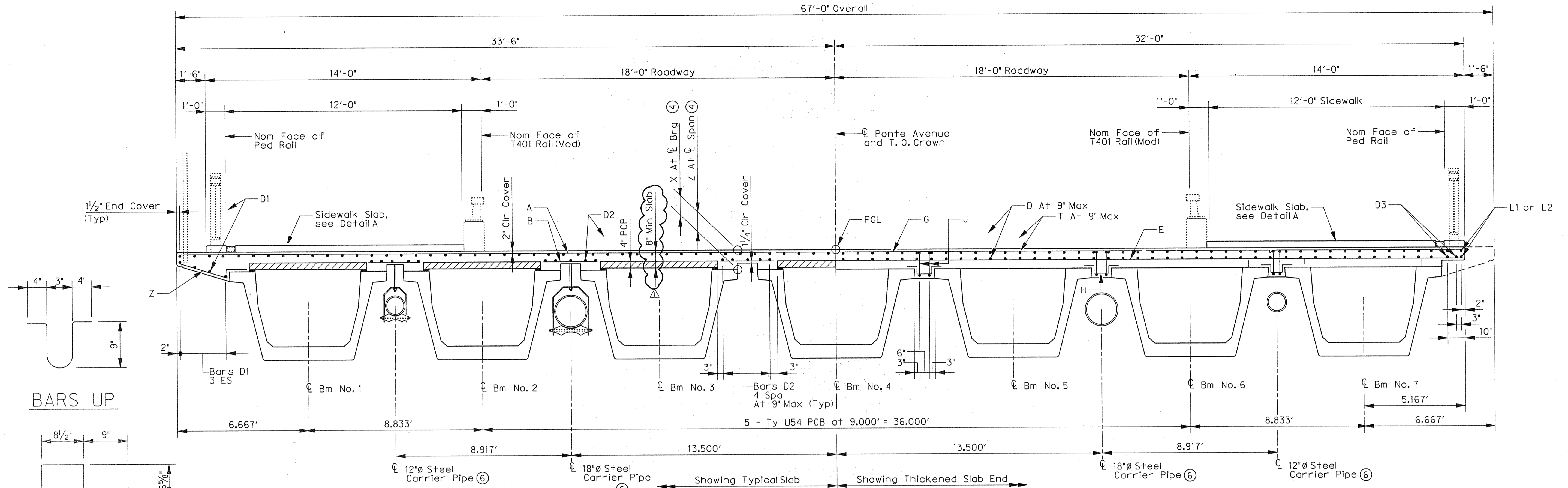
**VITRUVIAN PARK BRIDGES**  
PONTE AVENUE

**DECK PLAN**

**HALFF** 1201 NORTH BOWSER ROAD, RICHARDSON, TEXAS 75081-2275  
TEL (214) 346-8200 FAX (214) 738-0095

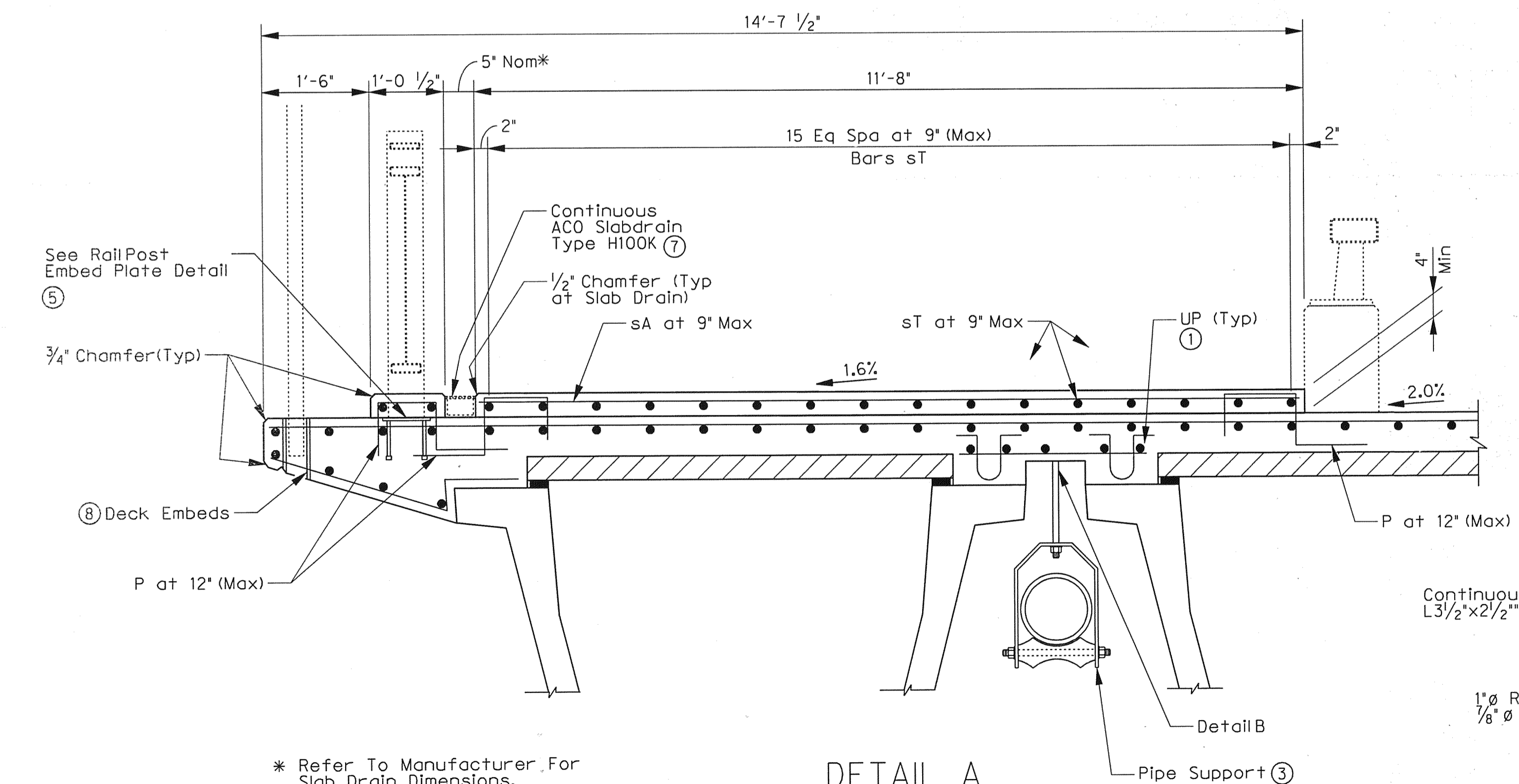
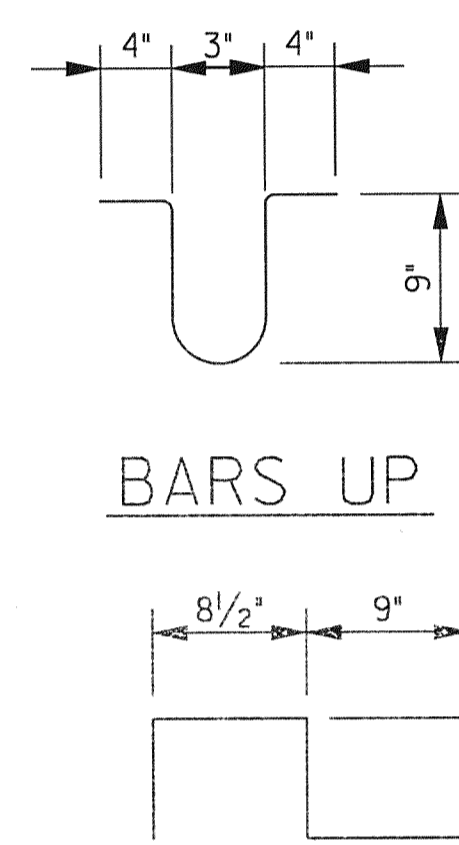
PROJECT	DESIGN	DRAWN	DATE	FILE	SHEET
27379	ESC	AHH	APRIL 2010	-	S1-16



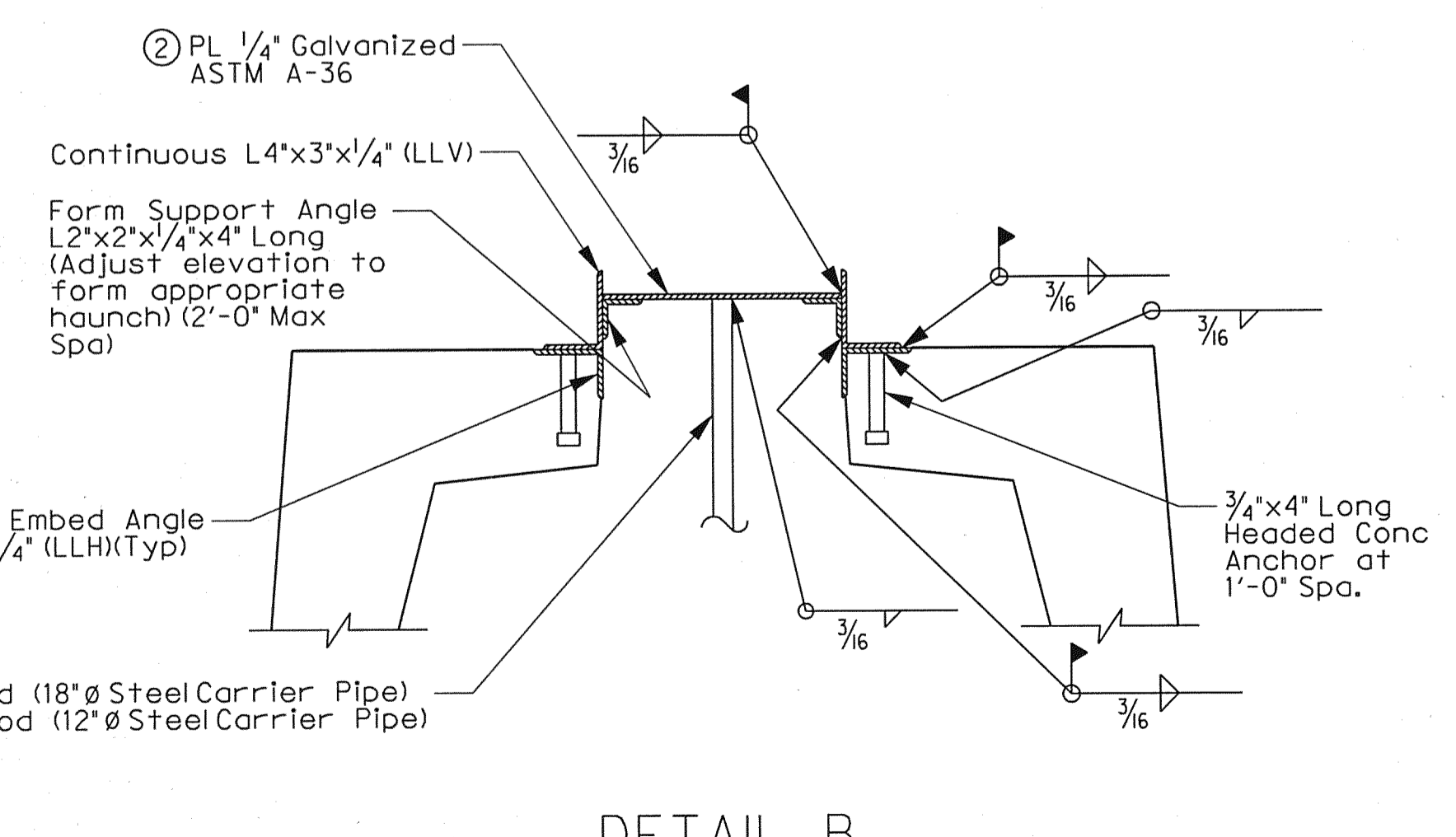


**SECTION A-A**  
SCALE: 3/8" = 1'-0"

- ① Space bars UP with beam bars R in all areas where measured haunch exceeds 3".
- ② Replace galvanized sheet steel with a 1/4" galvanized steel plate see UBMS standard for galvanized sheet steel detail.
- ③ Copper B-line B3110-18 (18" Ø steel carrier pipe) spaced at 6'-0" Max C.C. Copper B-line B3110-12 (12" Ø steel carrier pipe) spaced at 6'-0" Max C.C. Pipe supports are subsidiary to Steel Pipe Item 442, Misc. Steel.
- ④ See sheet 1 of 2 for table of dimensions.
- ⑤ Leave the bottom 1 inch of post ungalvanized.
- ⑥ 18" Ø steel pipe shall be schedule 40 pipe with 18" O.D. 12" Ø steel pipe shall be schedule 40 with 12" O.D. All steel pipes shall be galvanized.
- ⑦ Use grate Type 4100 or 4120 galvanized steel. The contractor shall submit a sample of the grate prior to installation.
- ⑧ See Drawing No. S1-24 for additional details.



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

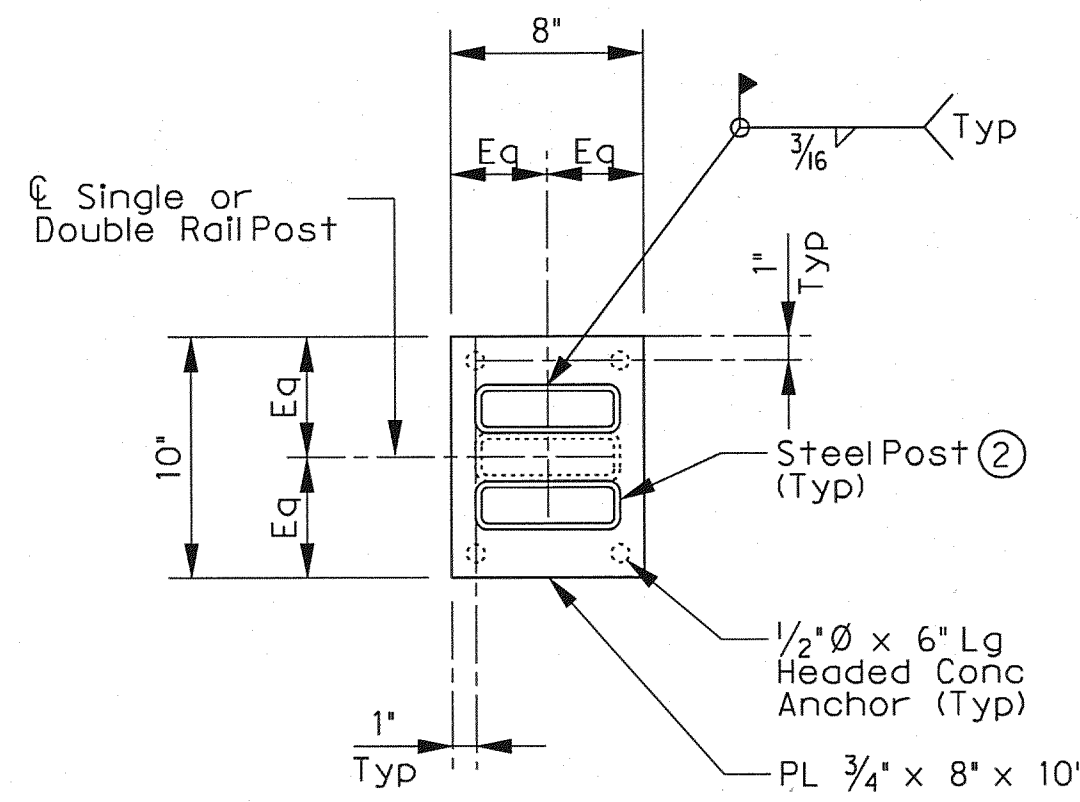


**DETAIL B**  
SCALE: NTS

\* Refer To Manufacturer For Slab Drain Dimensions.

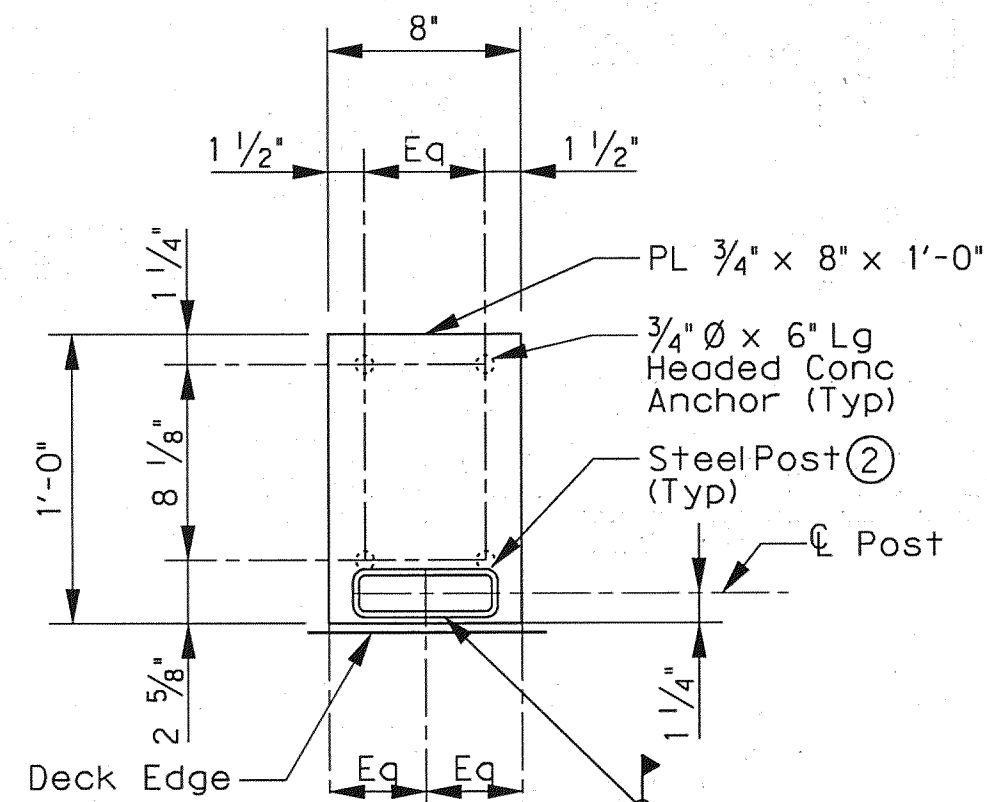


ADDENDUM #1		ESC	5/14/10
NO.	REVISION	BY	DATE
<b>ADDISON TOWN OF ADDISON</b> DALLAS COUNTY, TEXAS <b>VITRUVIAN PARK BRIDGES</b> PONTE AVENUE <b>DECK DETAILS</b>			
<b>HALFF</b> 1201 NORTH BOWSER ROAD, RICHARDSON, TEXAS 75081-2275 TEL (214) 346-6200 FAX (214) 739-0095			
PROJECT	DESIGN	DRAWN	DATE
27379	ESC	AHH	APRIL 2010
FILE	SHEET		
-	S1-17		



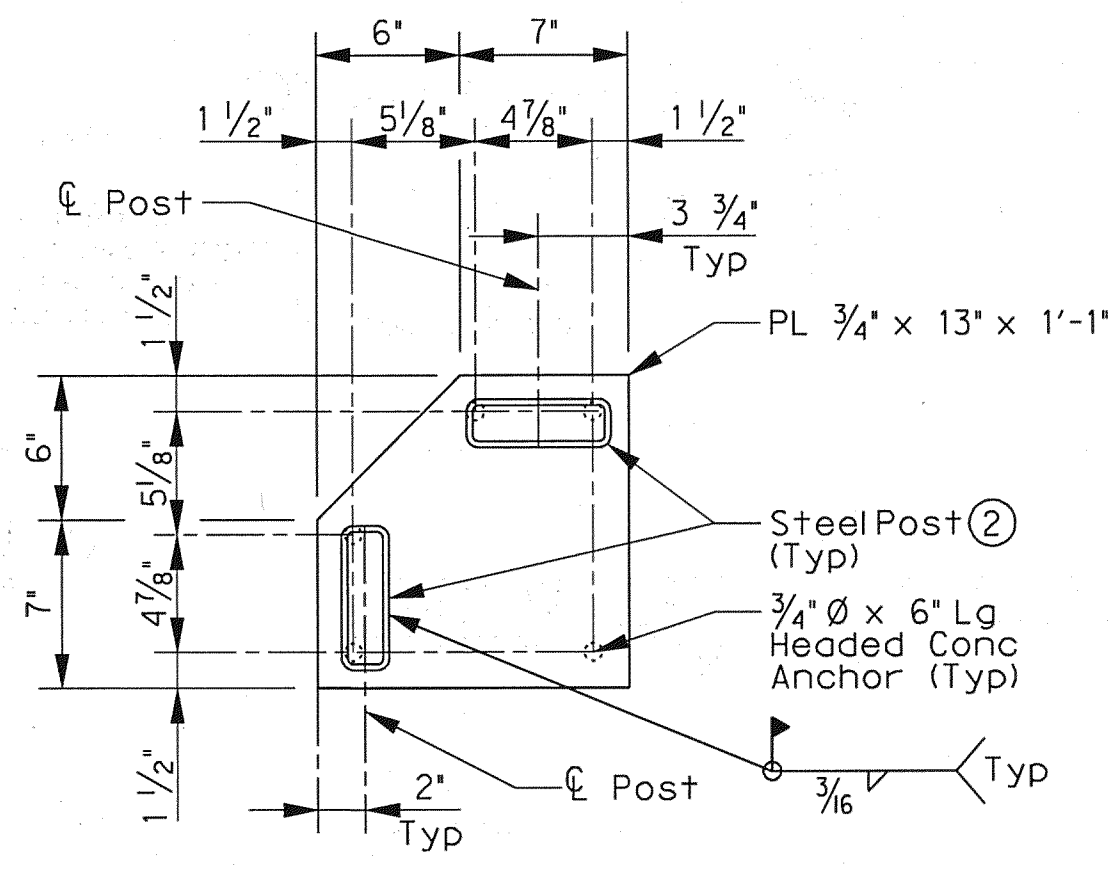
TYPICAL RAIL POST EMBED PLATE DETAIL 1

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



RAIL POST EMBED PLATE AT BRIDGE SEJ DETAIL 1

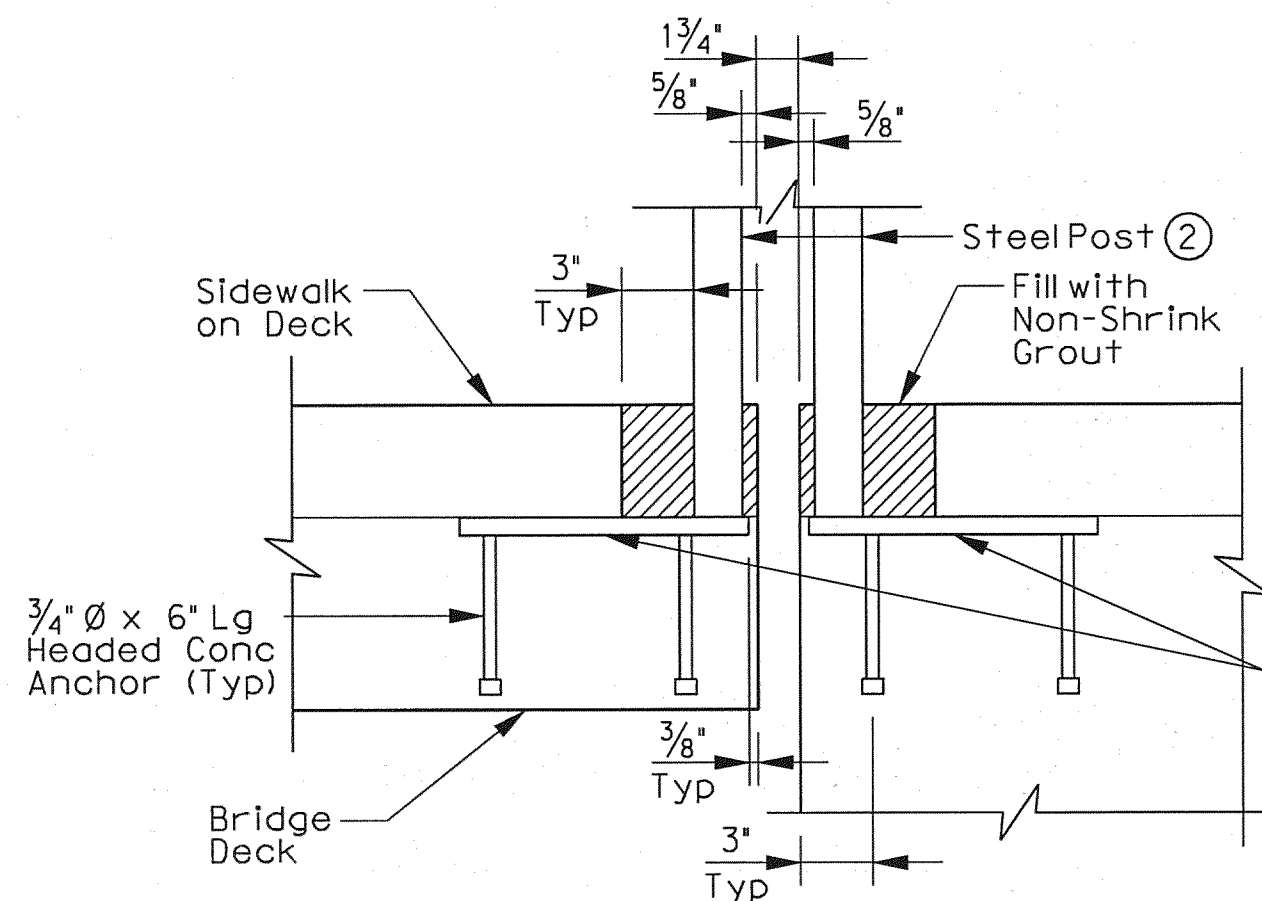
SCALE: 1 1/2" = 1'-0"



RAIL POST EMBED PLATE AT WINGWALL CORNERS DETAIL 1

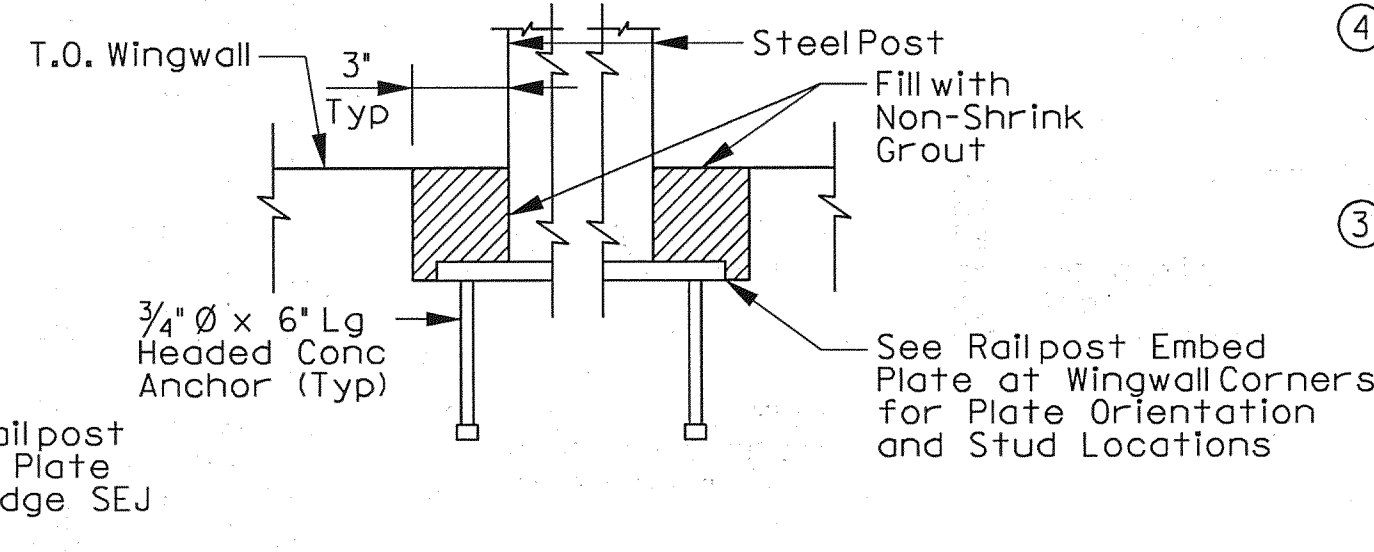
SCALE: 1 1/2" = 1'-0"

- 1 Rail embeds are subsidiary to Ped Rail Item.
- 2 Leave the bottom one inch of post ungalvanized.



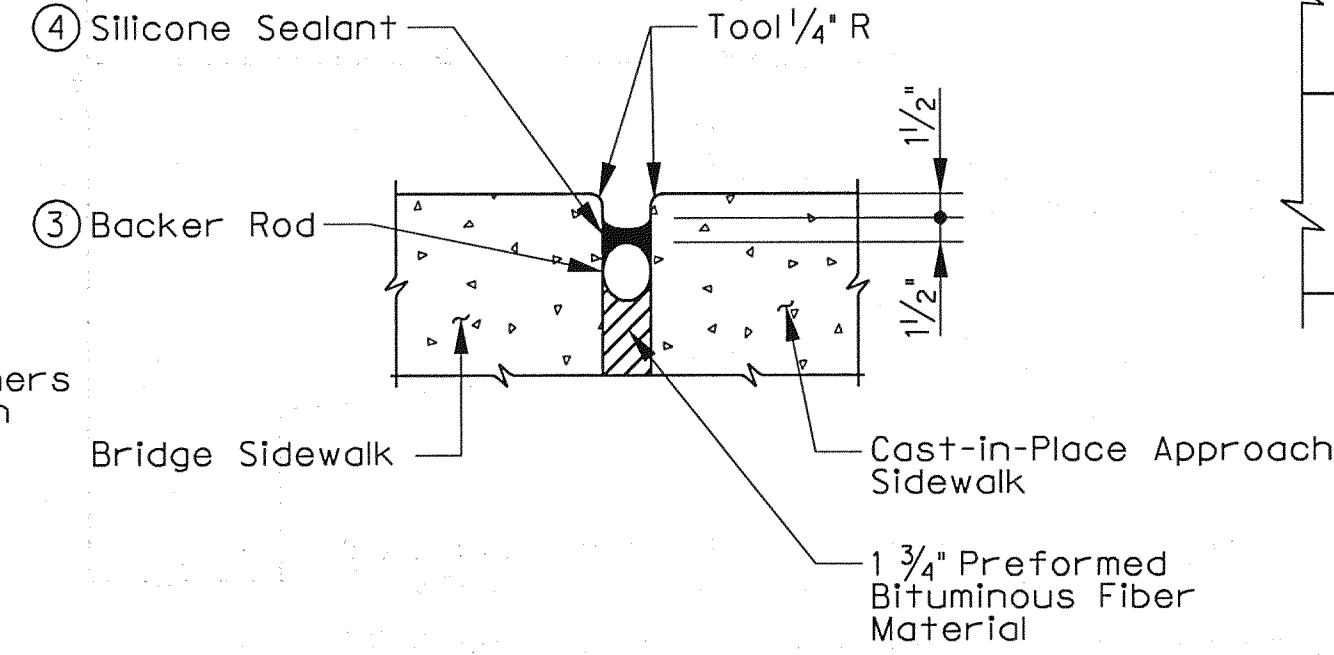
RAIL POST EMBED PLATE AT BRIDGE SEJ SECTION 1

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



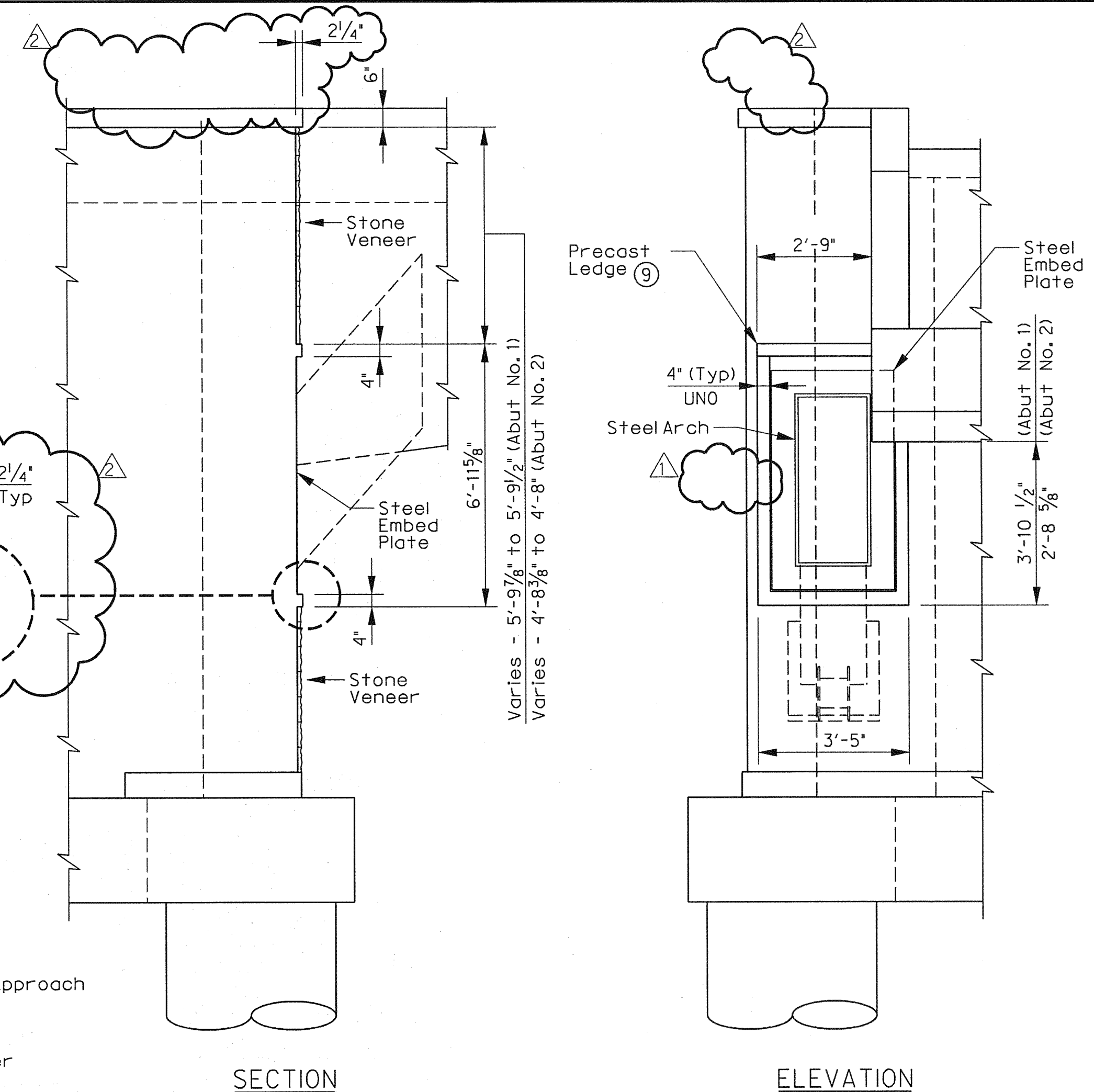
RAIL POST EMBED PLATE AT WINGWALL CORNERS SECTION 1

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



SIDEWALK JOINT DETAIL

SCALE: NTS



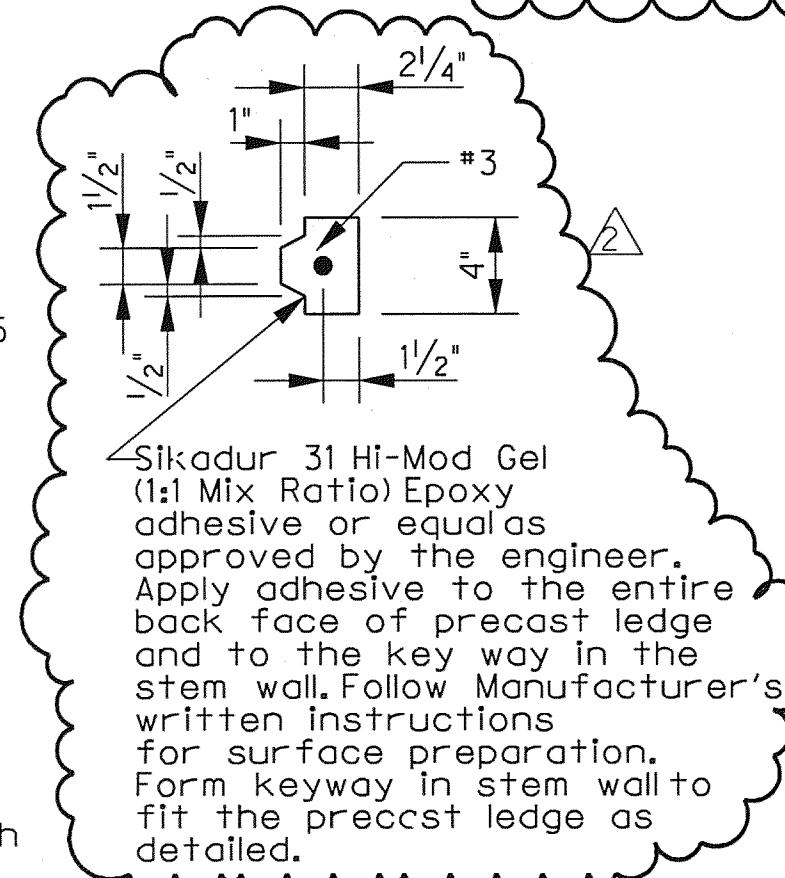
SECTION

ELEVATION

STONE COLLAR DETAILS 8

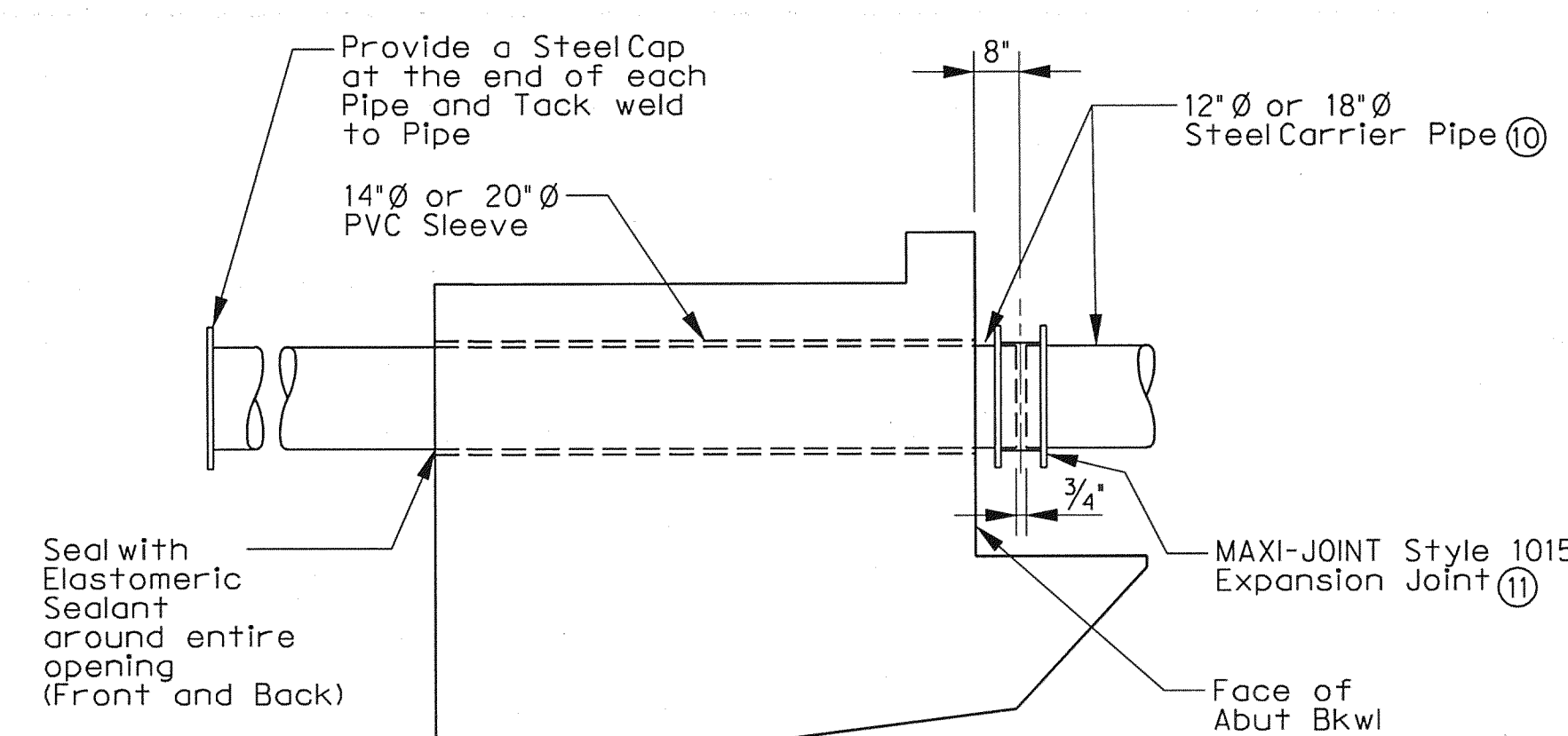
SCALE: 3/8" = 1'-0"

- 8 For Abutment details and bar details not shown, see Drawing Nos. S1-05 to S1-14.
- 9 Prior to Arch Installation a temporary stone support (L5 x 3 x 1/4 (LLV)) shall be used. Installation with three 1/2 inch Hi-Ti Quik Bolt 3 expansion anchors embedded 3 1/2 min. Coordinate removal of stone veneer and temporary stone support with steel arch erector. Replace the temporary stone ledge with precast ledge after arch has been installed. At the Contractor's option, the stone veneer may be installed after the Arch is fully erected. If this option is used, the temporary stone support (L5 x 3 x 1/4) is not needed. For either option, the precast ledge shall be installed only after the Arch is fully erected.



PRECAST LEDGE DETAIL

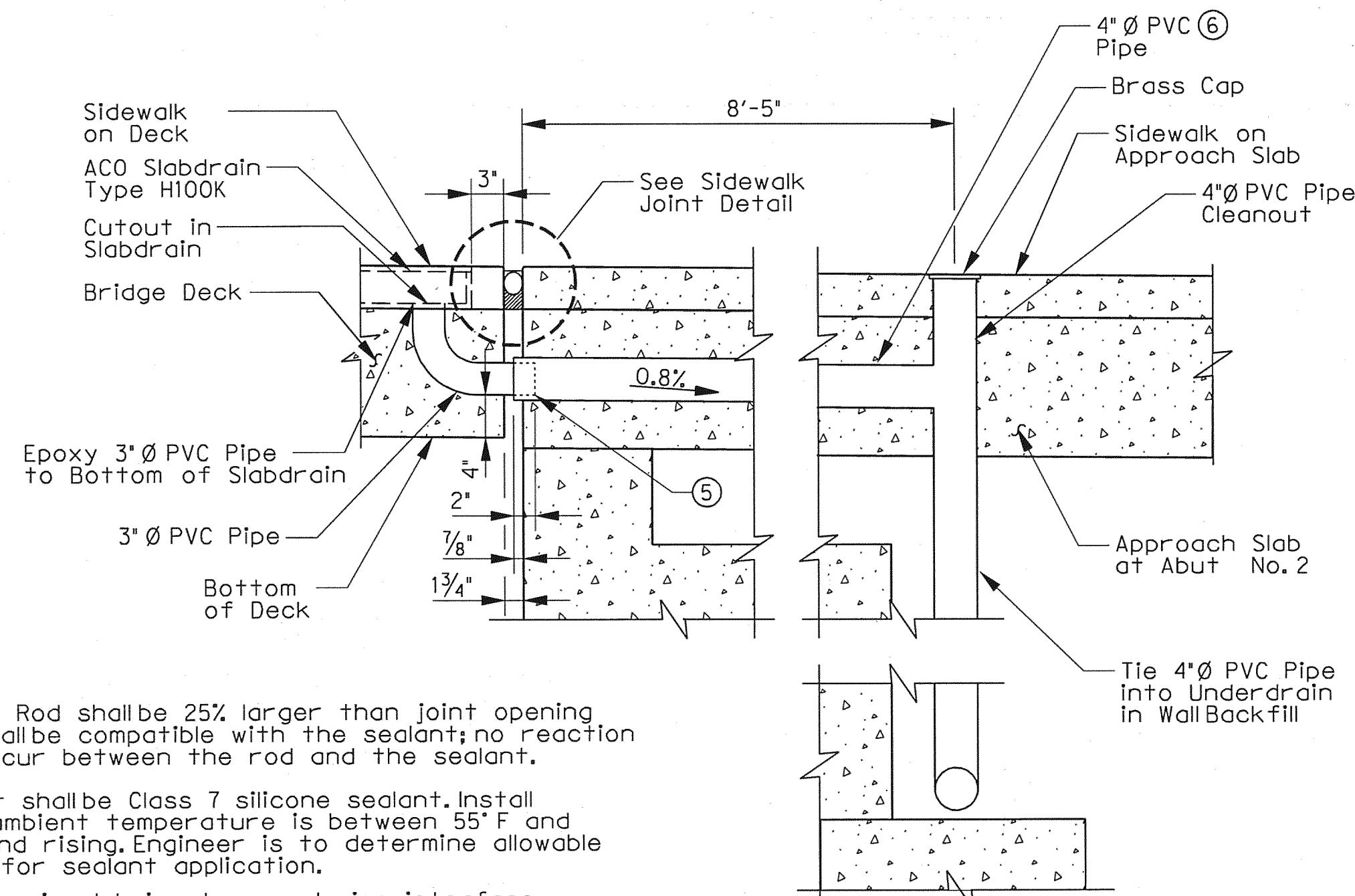
SCALE: NTS



STEEL PIPE EMBED AND EXPANSION JOINT DETAIL

SCALE: NTS

- 3 Backer Rod shall be 25% larger than joint opening and shall be compatible with the sealant; no reaction shall occur between the rod and the sealant.
- 4 Sealant shall be Class 7 silicone sealant. Install when ambient temperature is between 55°F and 85°F and rising. Engineer is to determine allowable hours for sealant application.
- 5 Provide pipe lubricant around pipe interface.
- 6 Provide bends in PVC pipe where necessary to avoid thickened wingwall. See Sheet S1-14 for quantity of drain pipe.
- 7 Drain located in both sidewalks at Abut No. 2.



DRAIN DETAIL

SCALE: NTS



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Addendum #2		ESC	05/19/10
NO.	REVISION	BY	DATE
TOWN OF ADDISON DALLAS COUNTY, TEXAS VITRUVIAN PARK BRIDGES PONTE AVENUE MISCELLANEOUS DETAILS			
1201 NORTH BOWSER ROAD, RICHARDSON, TEXAS 75081-2275 TEL (214) 346-6200 FAX (214) 739-0095			
PROJECT	DESIGN	DRAWN	DATE
27379	ESC	AHH	APRIL 2010
FILE	SHEET		
-	S1-18		

USER: ah2441

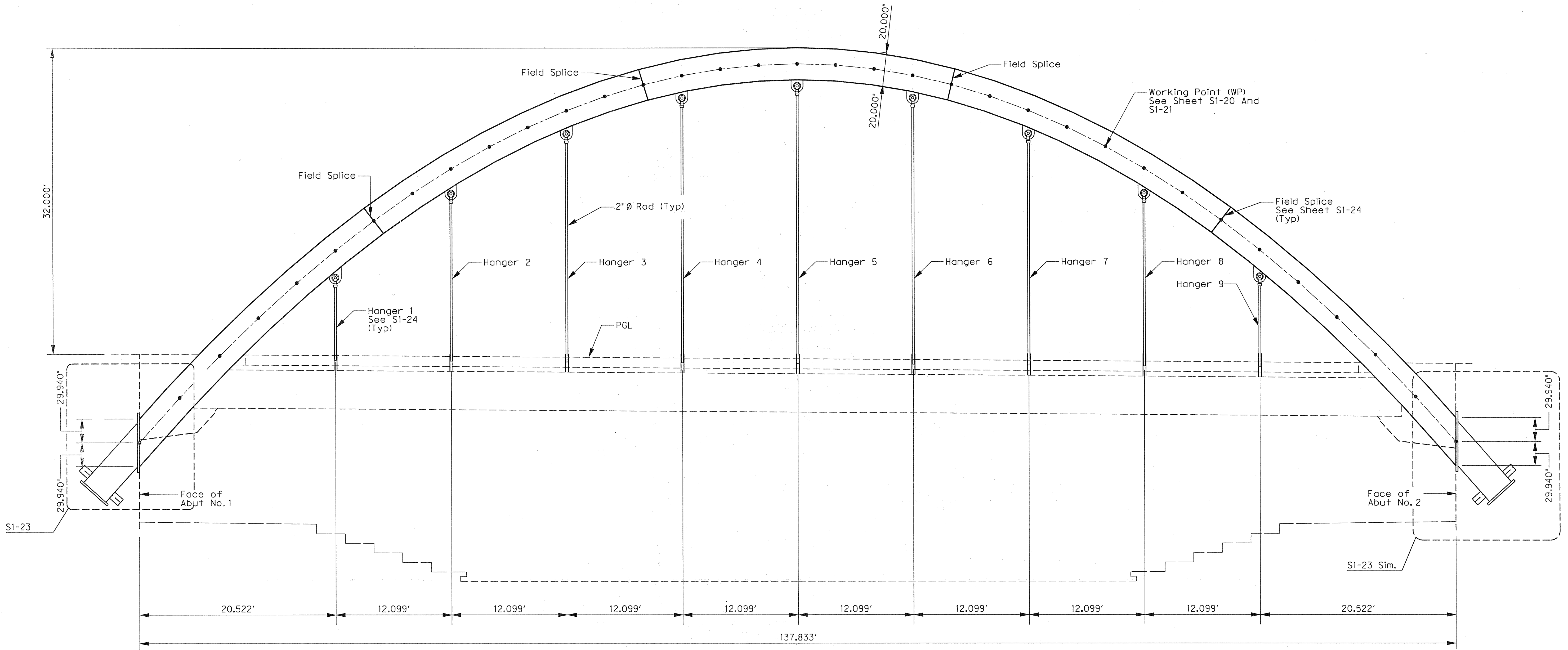
OFFICE: RCH

PROJECT # 27379

FILE: 27379-SC-PONTEB-AE01.dgn

TIME: 4:24:08 PM

DATE: 6/18/2010



ELEVATION  
SCALE: 3/16" = 1'-0"

ESTIMATED QUANTITIES

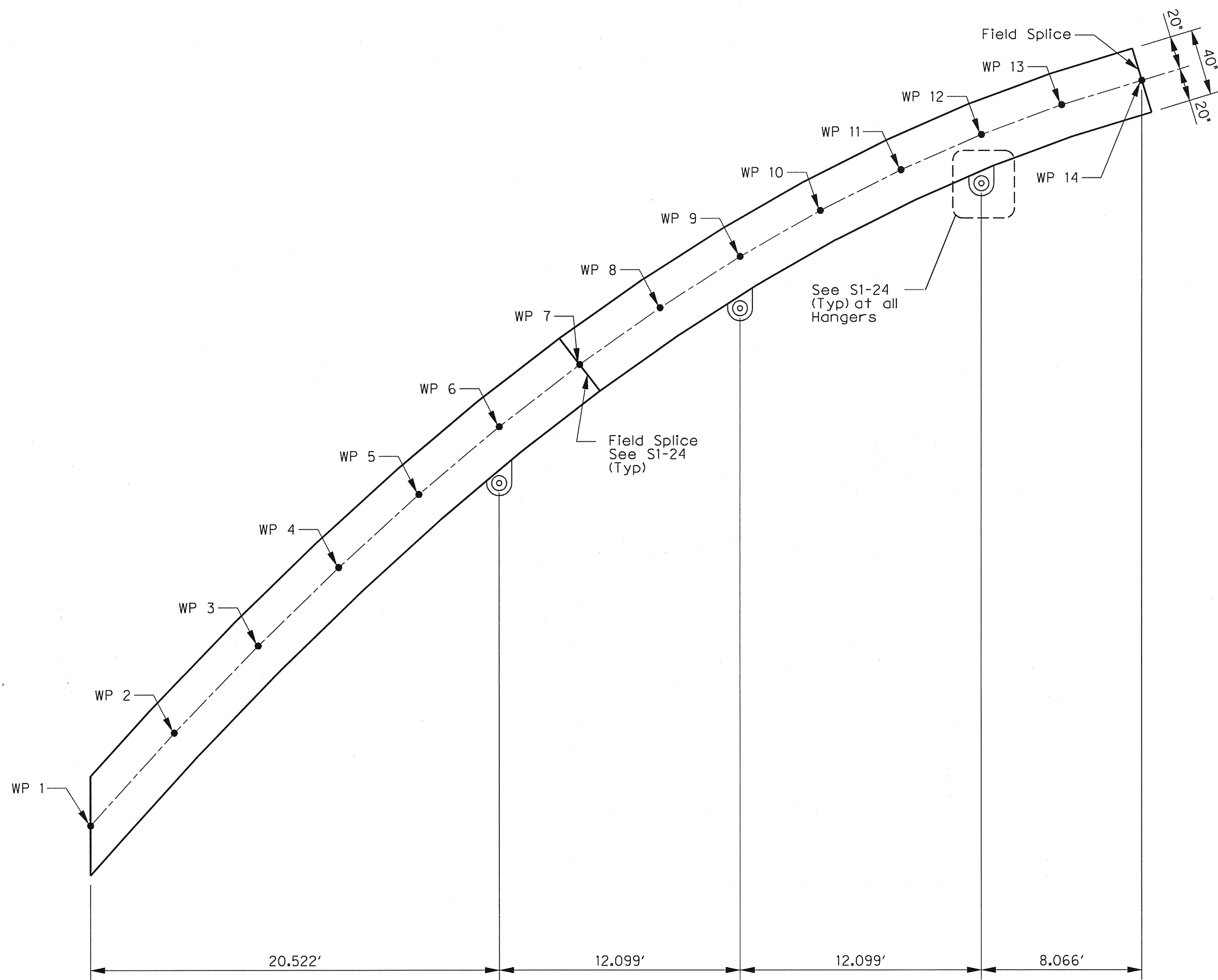
Item	Unit	Quantity
Two Steel Archs	LB	138,900
Four Embed Anchors	LB	35,240
Eighteen Hangers (2" Dia. Rod w/ #5 Clevis)	LB	4,632
Total	LB	178,772

Notes:  
Slide bearings are subsidiary to embed anchors.  
Hanger quantity includes deck embed.



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ADDENDUM #1		ESC	5/14/10
NO.	REVISION	BY	DATE
TOWN OF ADDISON DALLAS COUNTY, TEXAS VITRUVIAN PARK BRIDGES PONTE AVENUE ARCH DETAILS - ELEVATION			
1201 NORTH BOWSER ROAD, RICHARDSON, TEXAS 75081-2275 TEL (214) 346-6200 FAX (214) 739-0095			
PROJECT	DESIGN	DRAWN	DATE
27379	ESC	AHH	APRIL 2010
FILE	SHEET		
-	S1-19		



**ELEVATION**  
SCALE: 1/4" = 1'-0"

Working Point (WP)	Coordinate	
	X (ft)	Y (ft)
1	0.000	0.000
2	4.212	4.692
3	8.424	9.089
4	12.457	13.021
5	16.489	16.682
6	20.522	20.072
7	24.555	23.191
8	28.588	26.039
9	32.621	28.615
10	36.654	30.920
11	40.687	32.954
12	44.719	34.717
13	48.752	36.208
14	52.785	37.429
15	56.818	38.378
16	60.851	39.056
17	64.883	39.463
18	68.917	39.598
19	72.950	39.463
20	76.982	39.056
21	81.015	38.378
22	85.048	37.429
23	89.081	36.208
24	93.114	34.717
25	97.147	32.954
26	101.180	30.920
27	105.212	28.615
28	109.245	26.039
29	113.278	23.191
30	117.311	20.072
31	121.344	16.682
32	125.377	13.021
33	129.409	9.089
34	133.621	4.692
35	137.833	0.000

Note:  
Geometry Shown Is That Required  
For Fabrication And Does Not Represent  
Changes In Shape Due To Loading

**Fabrication Notes:**

- All Structural Steel Shall Conform To The Requirements Of ASTM A36, Unless Noted Otherwise.
- All Steel Shall Be Painted, Except Hanger Rods and Clevis.
- Hanger Rods And Clevis Shall Be Galvanized In Accordance with Item 445, "Galvanizing."
- Field Splices Shall Be Made By Full Penetration Groove Welds In Accordance With Item 441, "Steel Structures". Bolted Field Splices Are Not Permitted.
- See S1-24 For Field Splice Details.
- Arch Curve To Be Fabricated Flat Based On Working Points
- Arch Sections Between WP1 And WP2, And Between WP34 And WP 35 Shall Be Linear.



04-29-10

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NO.	REVISION	BY	DATE
<b>TOWN OF ADDISON</b> DALLAS COUNTY, TEXAS			
<b>VITRUVIAN PARK BRIDGES</b> PONTE AVENUE			
<b>ARCH RIB PROFILE</b>			
		1201 NORTH BOWSER ROAD, RICHARDSON, TEXAS 75081-2275 TEL (214) 346-6200 FAX (214) 739-0085	
PROJECT	DESIGN	DRAWN	DATE
27379	ESC	AHH	APRIL 2010
FILE	SHEET		
-	S1-20		

USER: ah2441

OFFICE: RCH

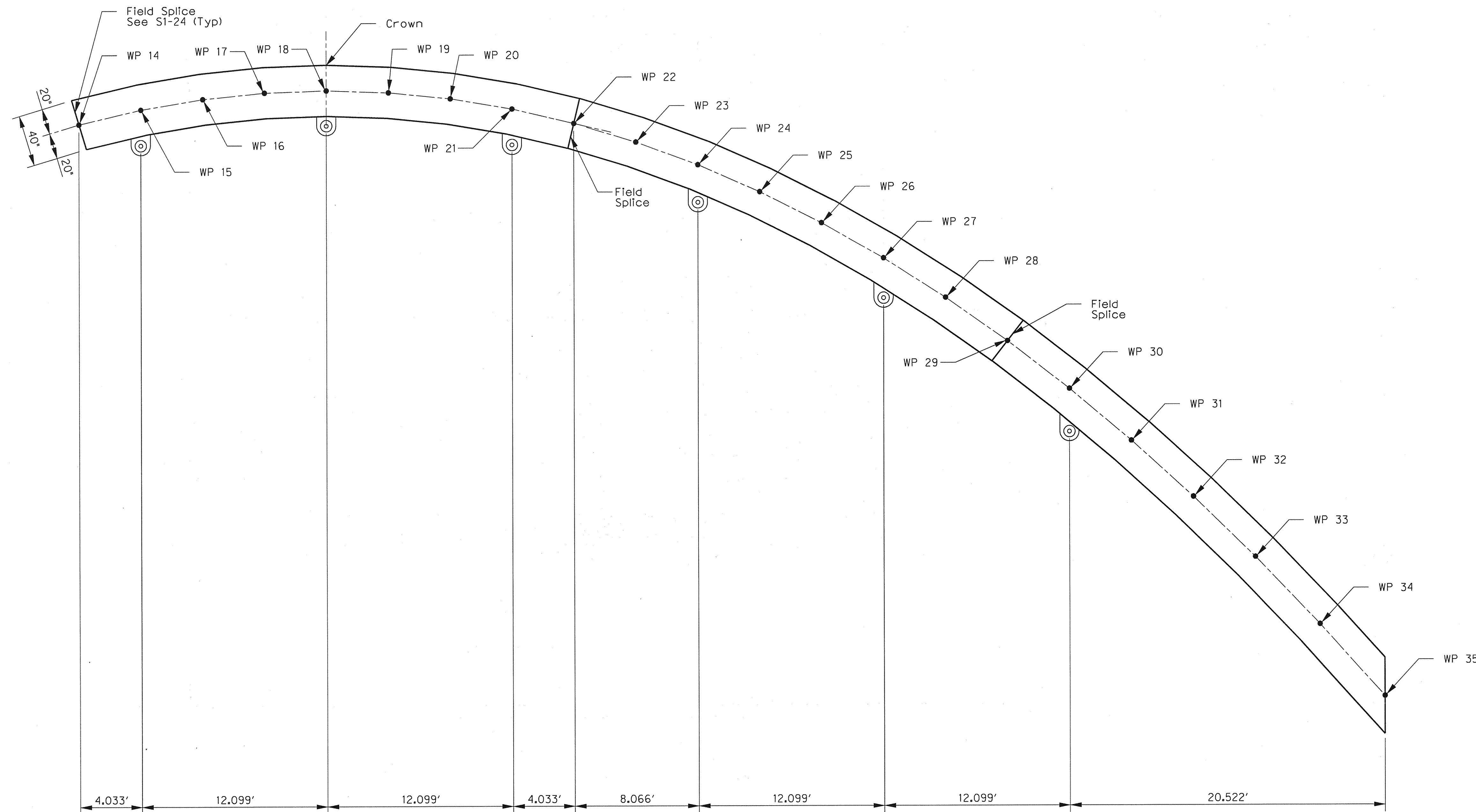
PROJECT # 27379

FILE: 27379-SC-PONTEB-AE03.dgn

TIME: 9:10:13 AM

DATE: 4/29/2010

See Sheet S1-20 For Working Point Coordinates



ELEVATION  
SCALE: 1/4" = 1'-0"



04-29-10  
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NO.	REVISION	BY	DATE		
<p><i>Addison</i> TOWN OF ADDISON DALLAS COUNTY, TEXAS</p>					
<p>VITRUVIAN PARK BRIDGES PONTE AVENUE</p>					
<p>ARCH RIB PROFILE</p>					
<p><b>HALFF</b> 1201 NORTH BOWSER ROAD, RICHARDSON, TEXAS 75081-2275 TEL (214) 348-8200 FAX (214) 738-0095</p>					
PROJECT	DESIGN	DRAWN	DATE	FILE	SHEET
27379	ESC	AHH	APRIL 2010	-	S1-21

USER: ah2441

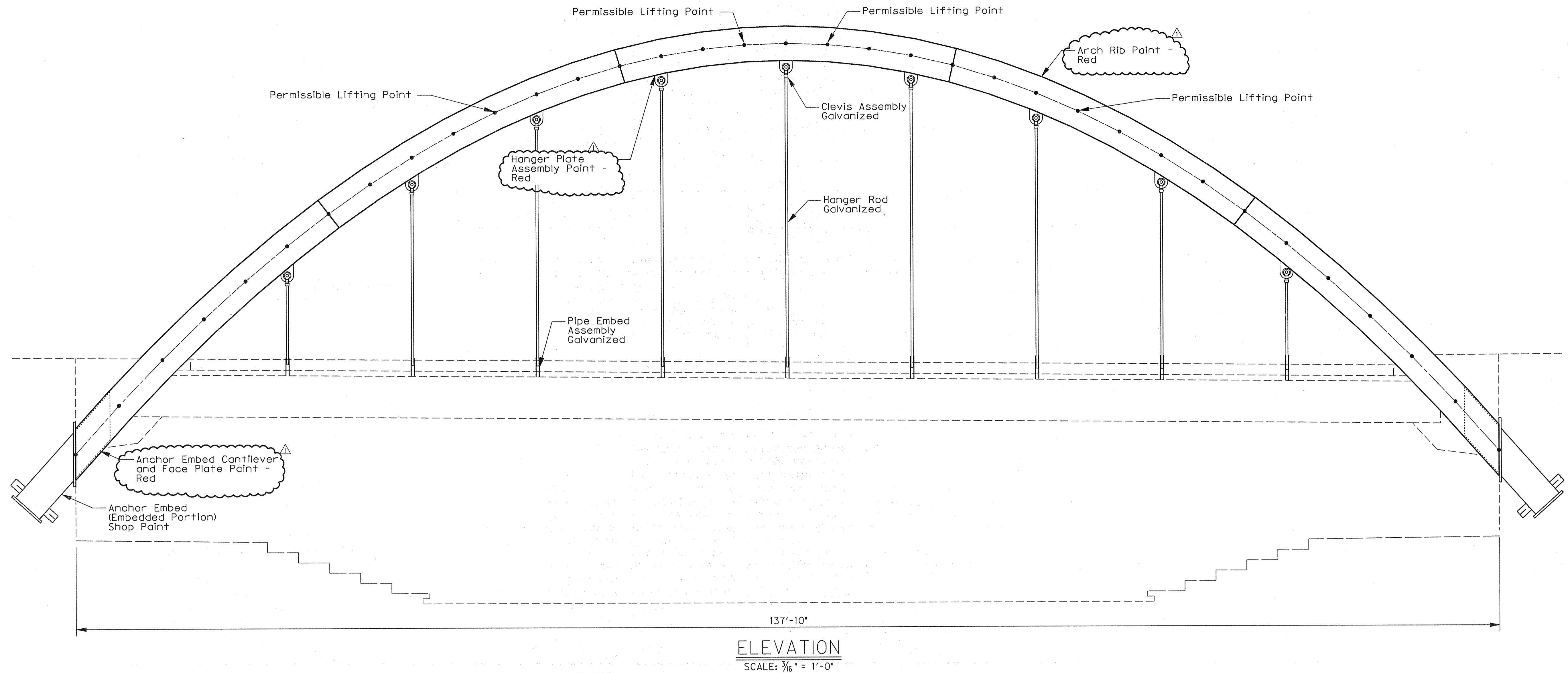
OFFICE: RCH

PROJECT # 27379

FILE: 27379-SC-PONTEB-AE04.dgn

TIME: 4:24:37 PM

DATE: 6/18/2010



**Painting Notes:**

Cleaning and painting shall be in accordance with Item 446, "Cleaning and Painting Steel" and Manufacturer's instructions.

Materials manufactured by the following manufacturers are acceptable:

- Carboline
- Coronado
- Porter
- Sherwin-Williams
- Tnemec

**Acceptable Materials:**

Primer: Organic zinc-rich primer. Provide factory formulated prime coat material compatible with the substrate and finish coats indicated. Primer shall be a two or three component polyamide epoxy zinc-rich coating. Primers shall contain no lead.

- Carboline: No. 858
- Coronado: Polyamide Epoxy Zinc Rich Primer, 101-152
- Porter: Zinc-Lock No. 308
- Sherwin-Williams: Zinc Clad IV
- Tnemec: 90-97

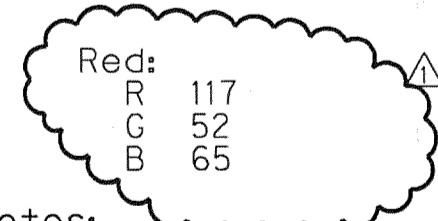
Intermediate Coat: High build epoxy. Provide factory formulated polyamide epoxy intermediate coat compatible with prime coat and topcoat indicated.

- Carboline: No. 893
- Coronado: Polyamide Epoxy 111-111
- Porter: "M.C.R. High Build Epoxy" No. 4500
- Sherwin-Williams: "Recoat Epoxy Primer," B67 Series
- Tnemec: Series 66 "Hi-Build Epoxoline"

Topcoat: Polyurethane. Provide factory formulated polyurethane. Material shall be compatible with the intermediate coat indicated. Sheen shall be gloss.

- Carboline: 134 HS
- Coronado: Superthane, 827 Series
- Porter: "Hythane Super" No. 8600
- Sherwin-Williams: "High Solids Polyurethane," B65 Series
- Tnemec: Series 75, "Endura-Shield" High Build Polyurethane

**Color of Topcoat:**



**Erection Notes:**

Field splices shall be made with arch flat, prior to lifting arch.

Field splices shall be made by full penetration groove welds in accordance with Item 441, "Steel Structures." Nondestructive Examination (NDE) shall be performed as specified in AWS D1.5.

Arch shall be lifted using a spreader bar and shall be lifted, at a minimum, from the points shown to allow for adequate clear distance from the face of the abutment. The Contractor may adjust the location of the lifting points as approved by the Engineer.

Contractor shall submit an erection and bracing plan signed and sealed by a Licensed Professional Engineer in the State of Texas for the Engineer's approval prior to erection.

Lifting points shall not be located at field splices.

Arch shall be fully braced until bottom plates of arch rib have been installed.

The Contractor may modify the method of erection as approved by the Engineer.

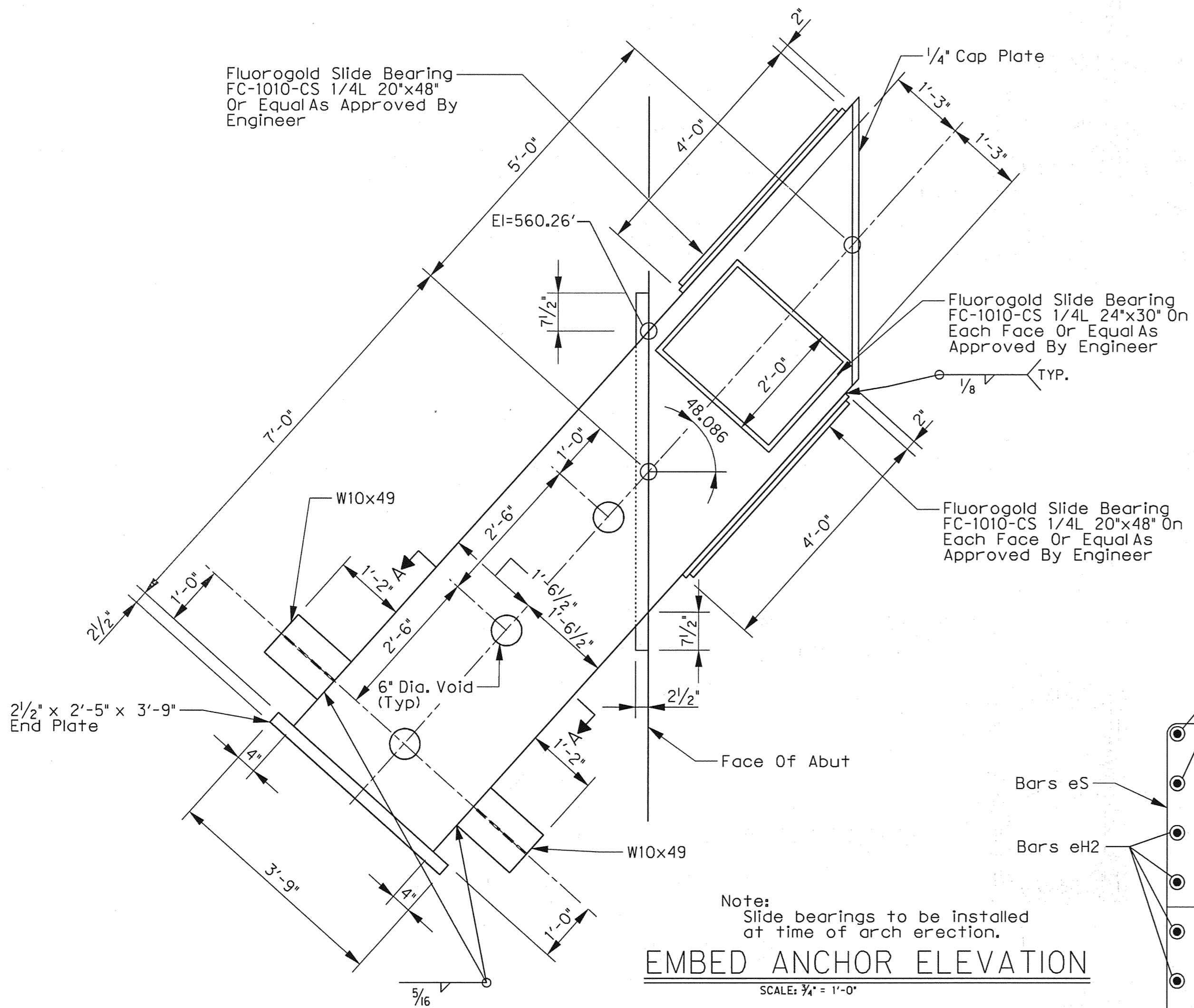
Touch up any damaged paint in accordance with Item 446, "Cleaning and Painting Steel" and paint manufacturer's recommendations.



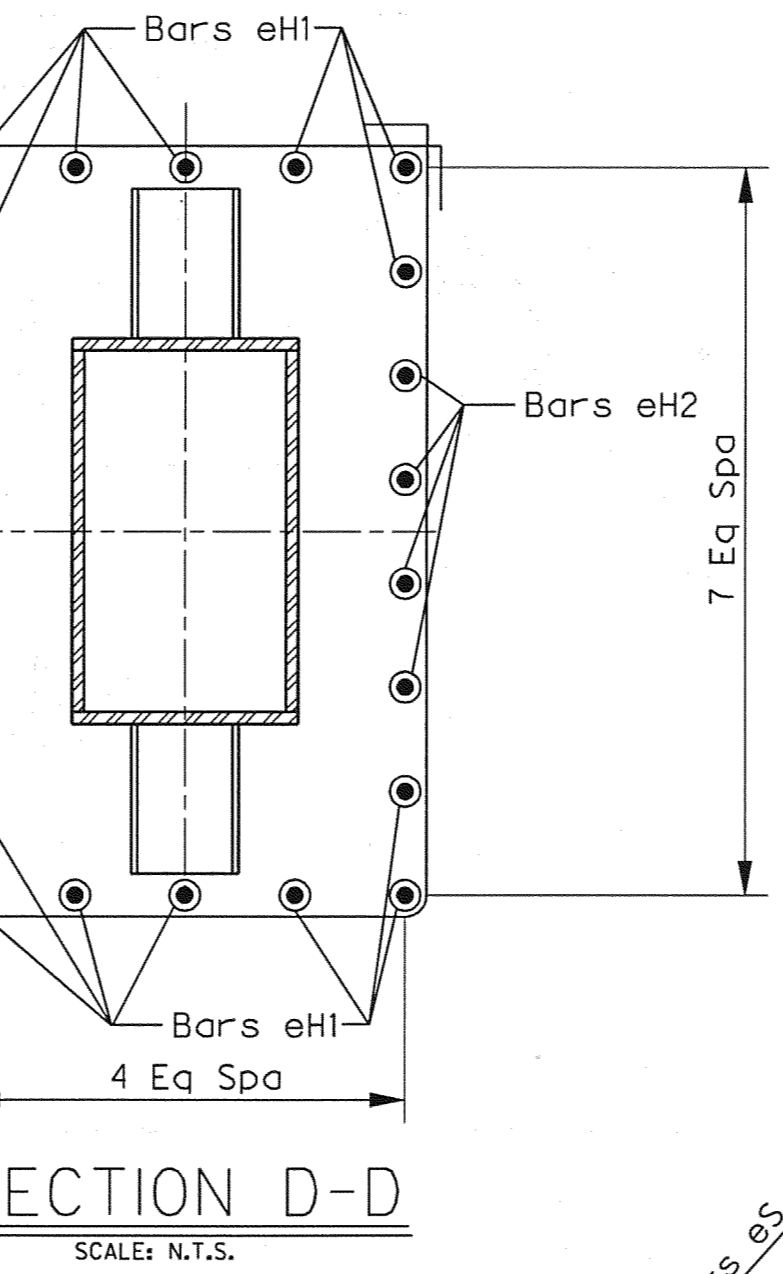
05-14-10

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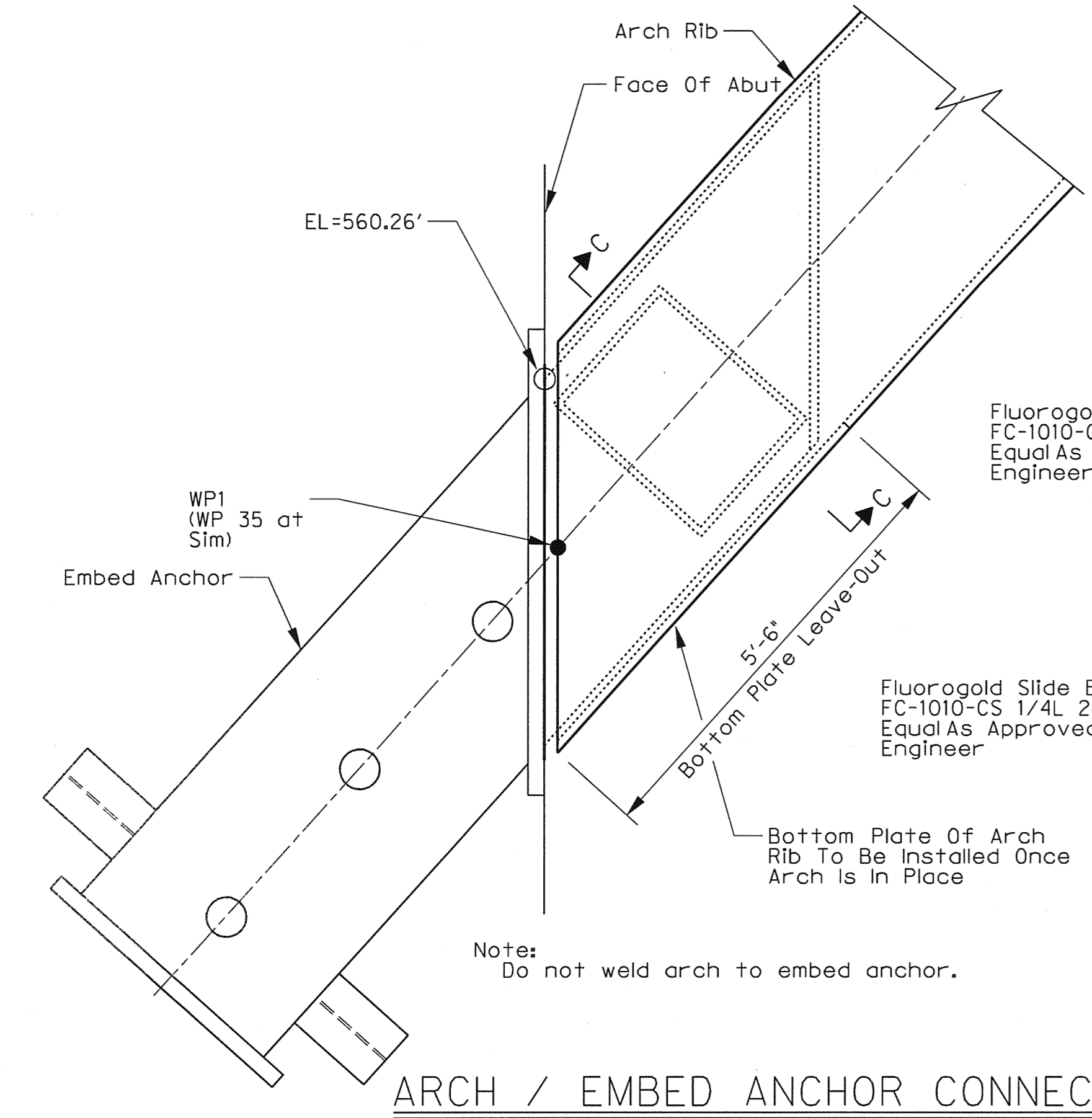
ADDENDUM #1	REVISION	ESC	5/14/10
NO.	BY	DATE	
<b>TOWN OF ADDISON</b> DALLAS COUNTY, TEXAS			
<b>VITRUVIAN PARK BRIDGES</b> PONTE AVENUE			
<b>ARCH ERECTION &amp; PAINTING PLAN</b>			
1201 NORTH BOWSER ROAD, RICHARDSON, TEXAS 75081-2275 TEL (214) 346-6200 FAX (214) 738-0095			
PROJECT	DESIGN	DRAWN	DATE
27379	ESC	AHH	APRIL 2010
FILE	SHEET		
-	S1-22		



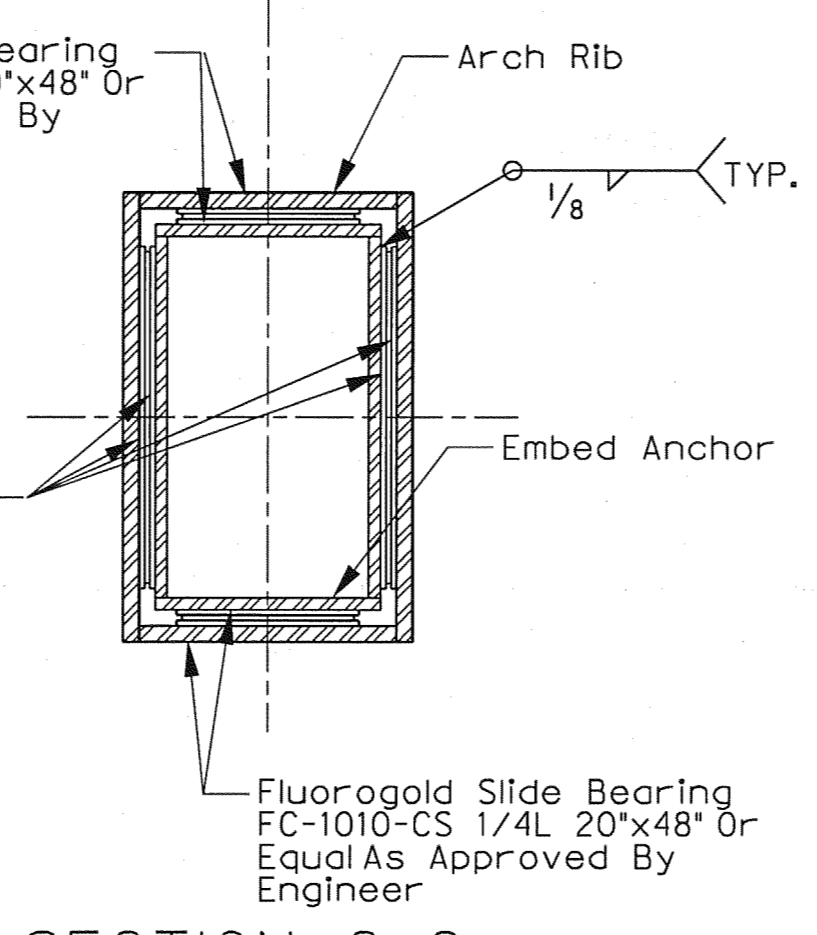
**EMBED ANCHOR ELEVATION**  
 Note: Slide bearings to be installed at time of arch erection.  
 SCALE: 3/4" = 1'-0"



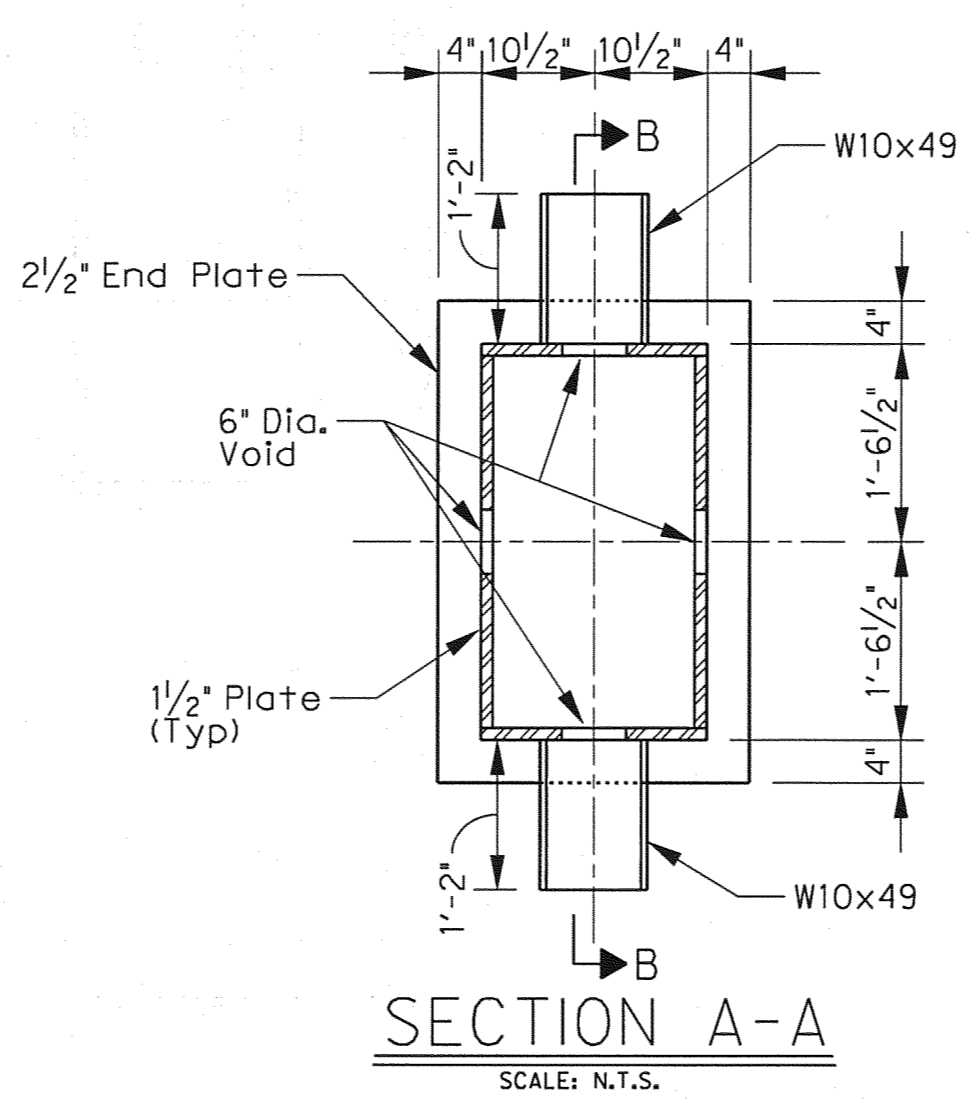
**SECTION D-D**  
 SCALE: N.T.S.



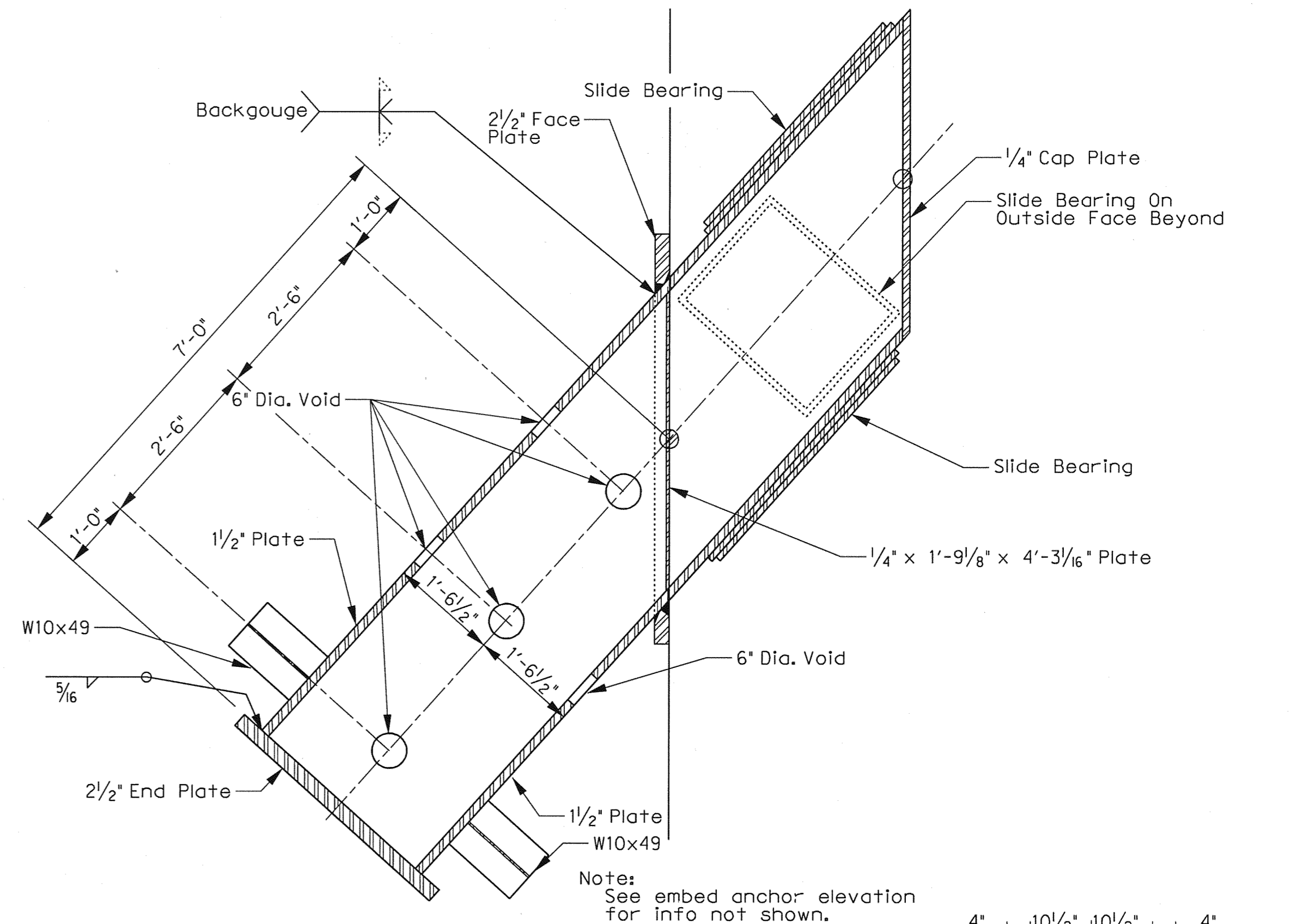
**ARCH / EMBED ANCHOR CONNECTION**  
 Note: Do not weld arch to embed anchor.  
 SCALE: 3/4" = 1'-0"



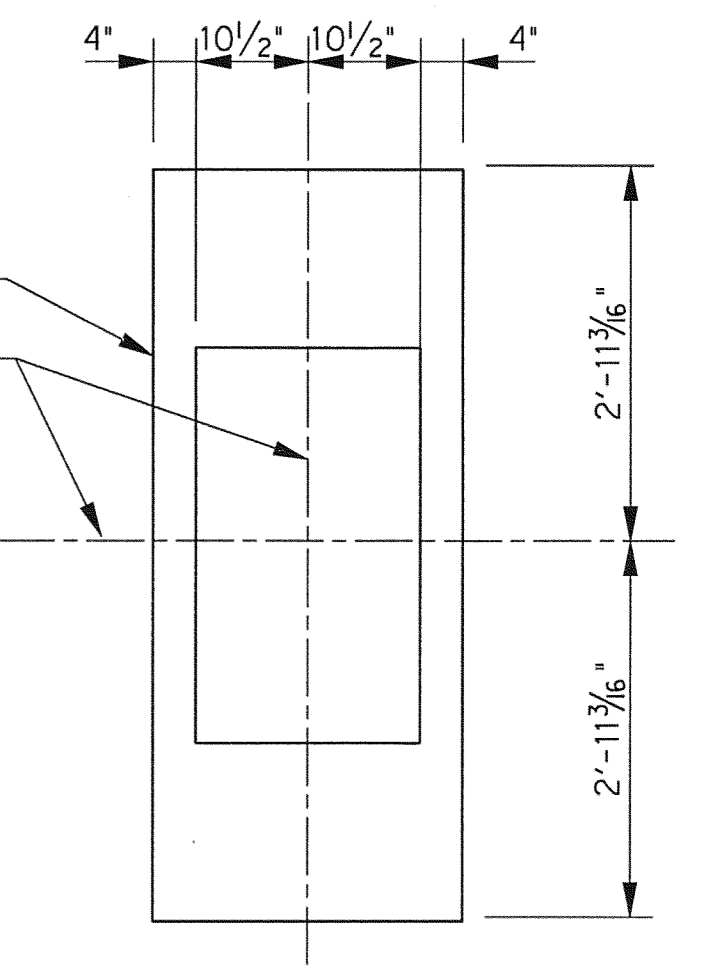
**SECTION C-C**  
 SCALE: N.T.S.



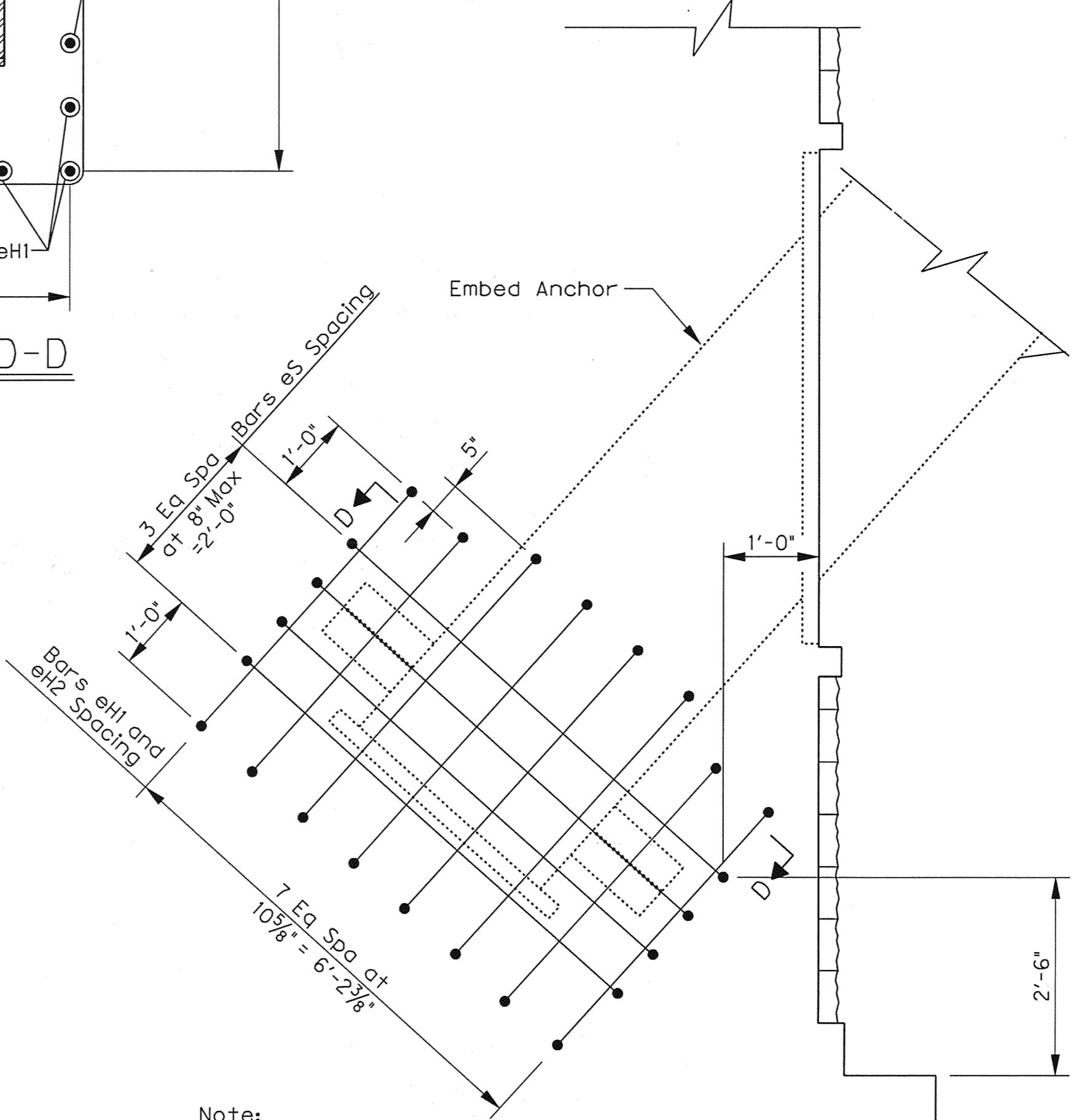
**SECTION A-A**  
 SCALE: N.T.S.



**SECTION B-B**  
 SCALE: N.T.S.



**FACE PLATE**  
 SCALE: N.T.S.



**EMBED ANCHOR CONNECTION**  
 Note: See sheets S1-09 and S1-13 for info not shown.  
 SCALE: 3/4" = 1'-0"



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NO.	REVISION	BY	DATE

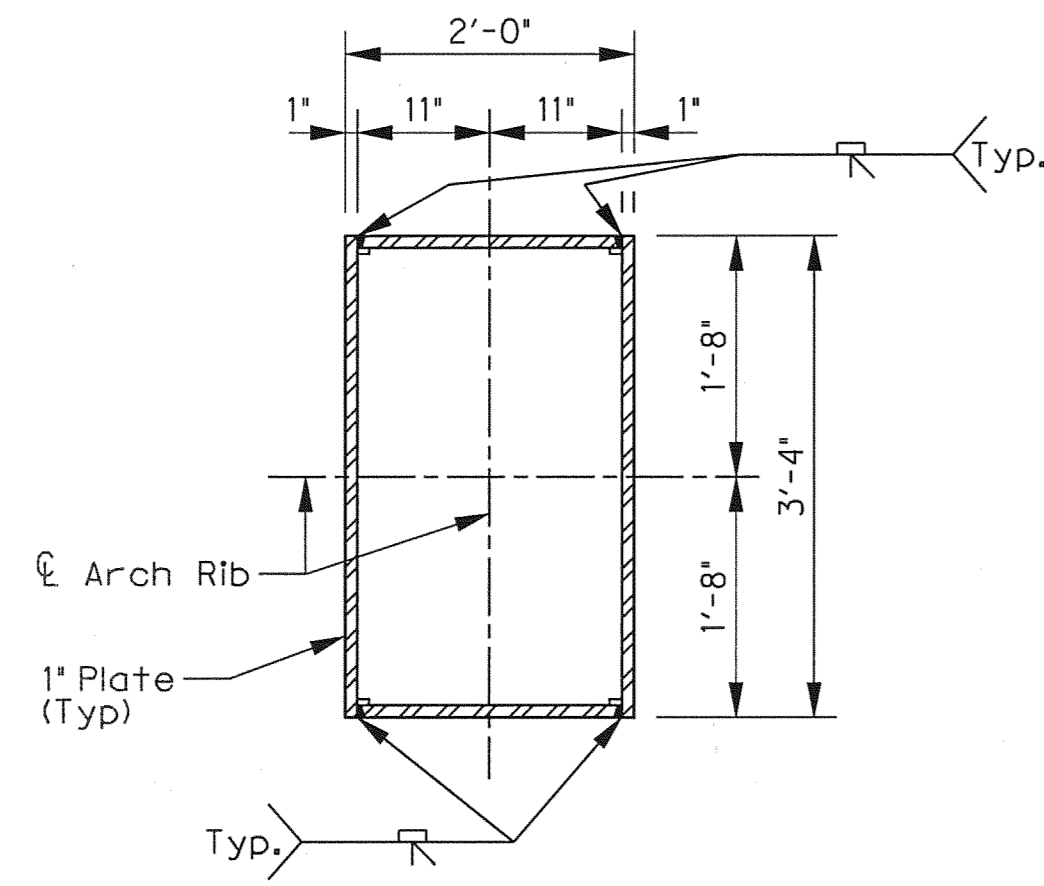
**ADDISON TOWN OF ADDISON DALLAS COUNTY, TEXAS**

**VITRUVIAN PARK BRIDGES PONTE AVENUE**

**ARCH DETAILS - EMBED DETAILS**

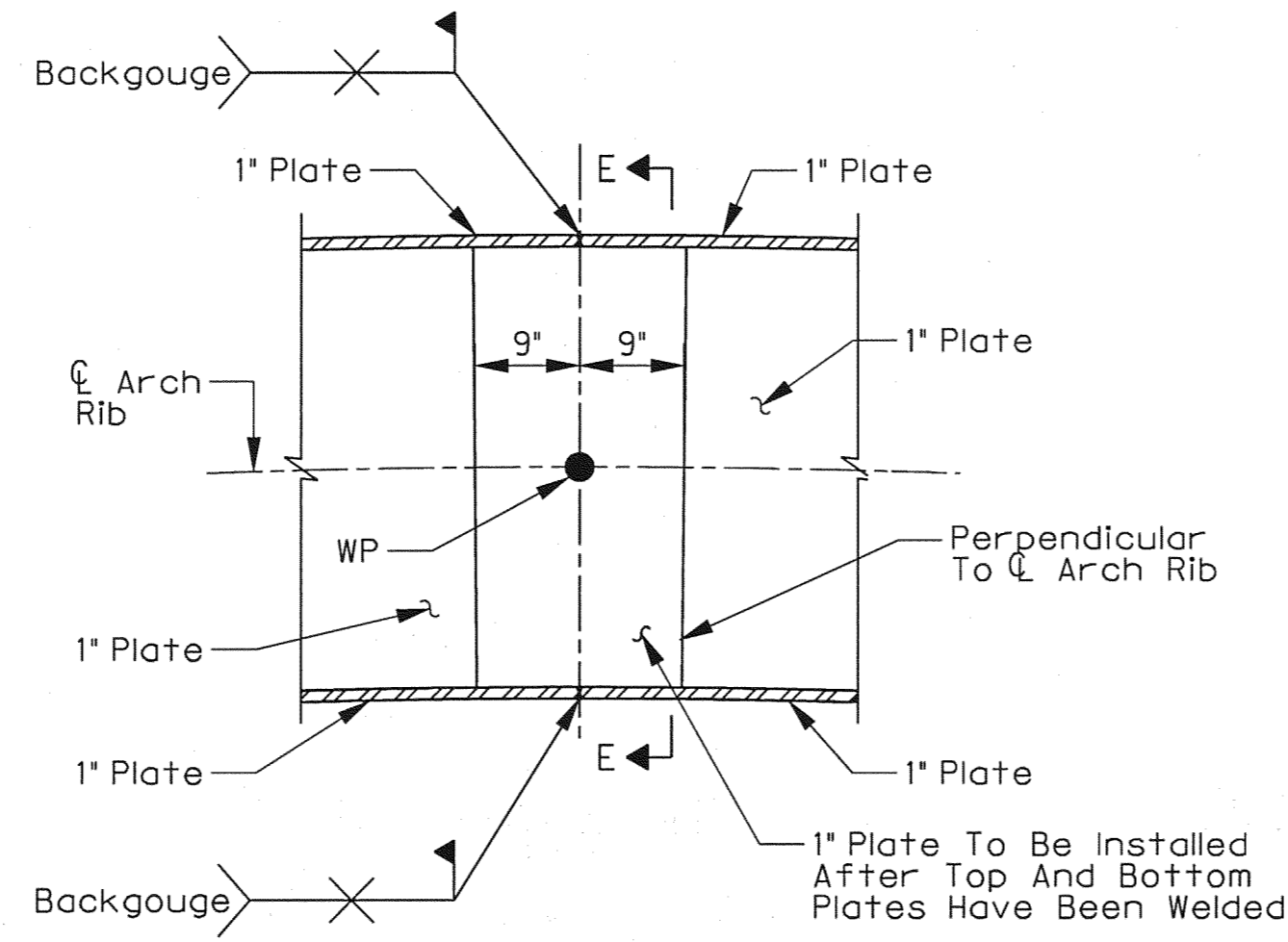
**HALFF** 1201 NORTH BOWSER ROAD, RICHARDSON, TEXAS 75081-2275  
 TEL (214) 346-6200 FAX (214) 739-0085

PROJECT	DESIGN	DRAWN	DATE	FILE	SHEET
27379	ESC	AHH	APRIL 2010	-	S1-23



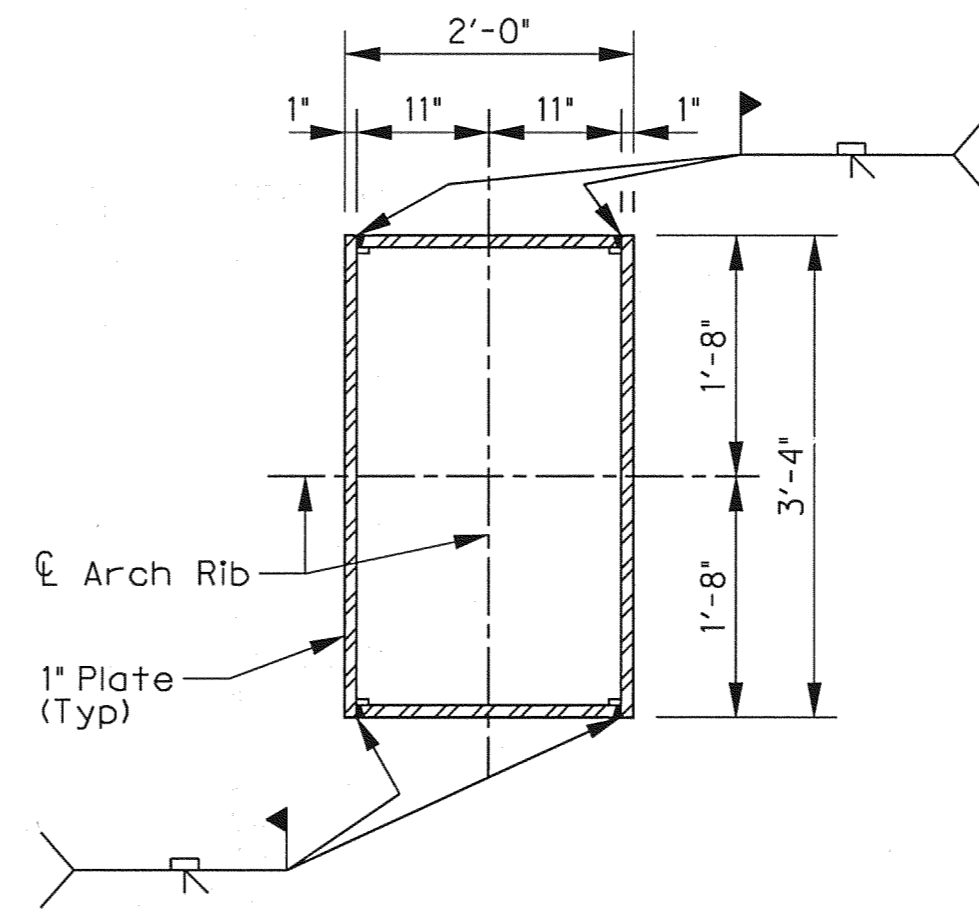
**SECTION THROUGH ARCH RIB**

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



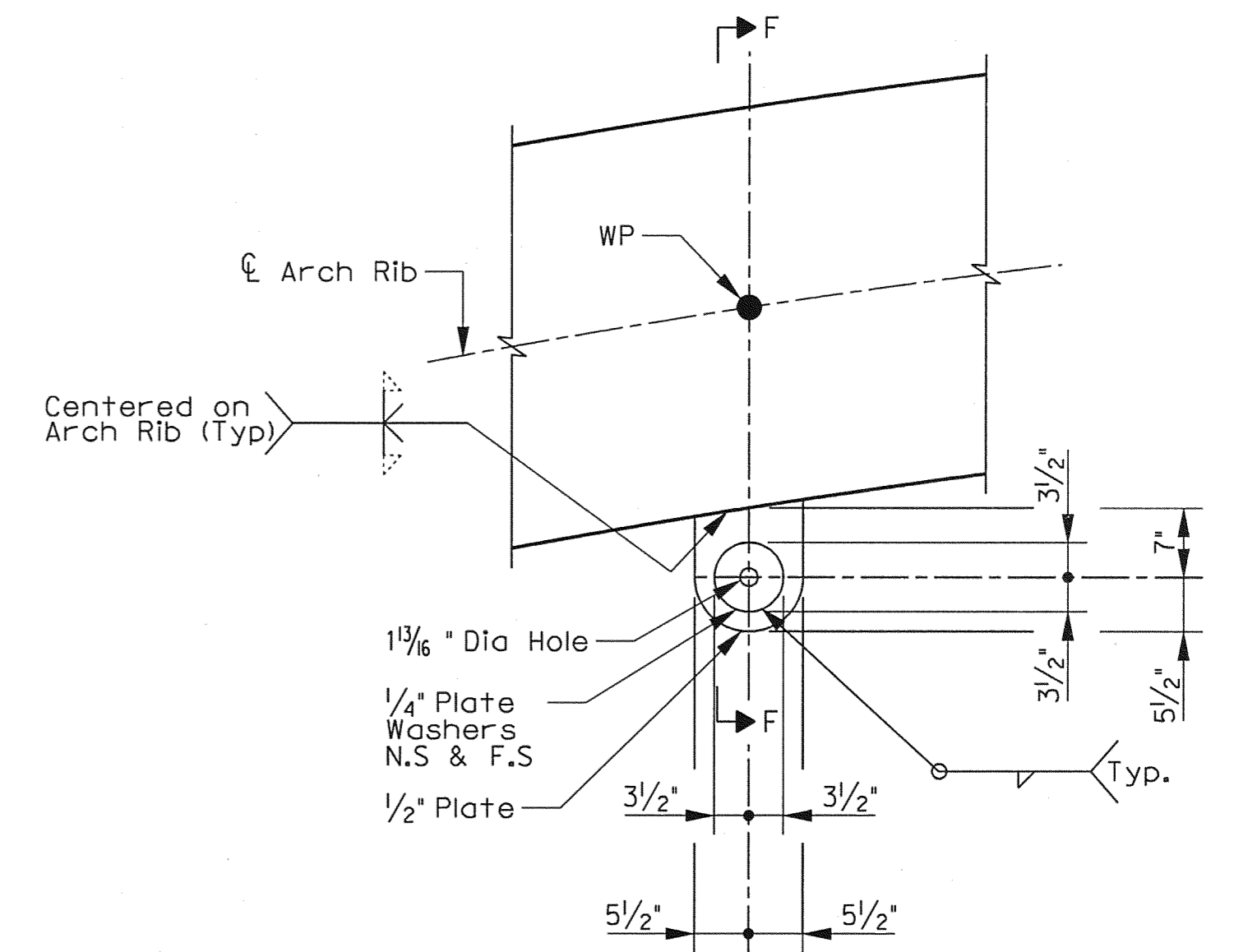
**FIELD SPLICE**

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



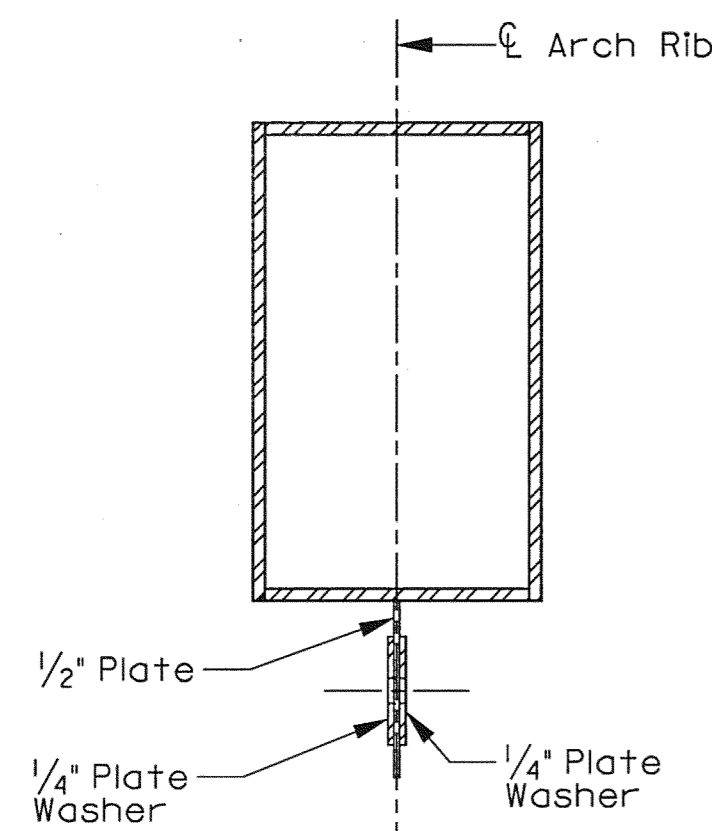
**SECTION E-E**

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



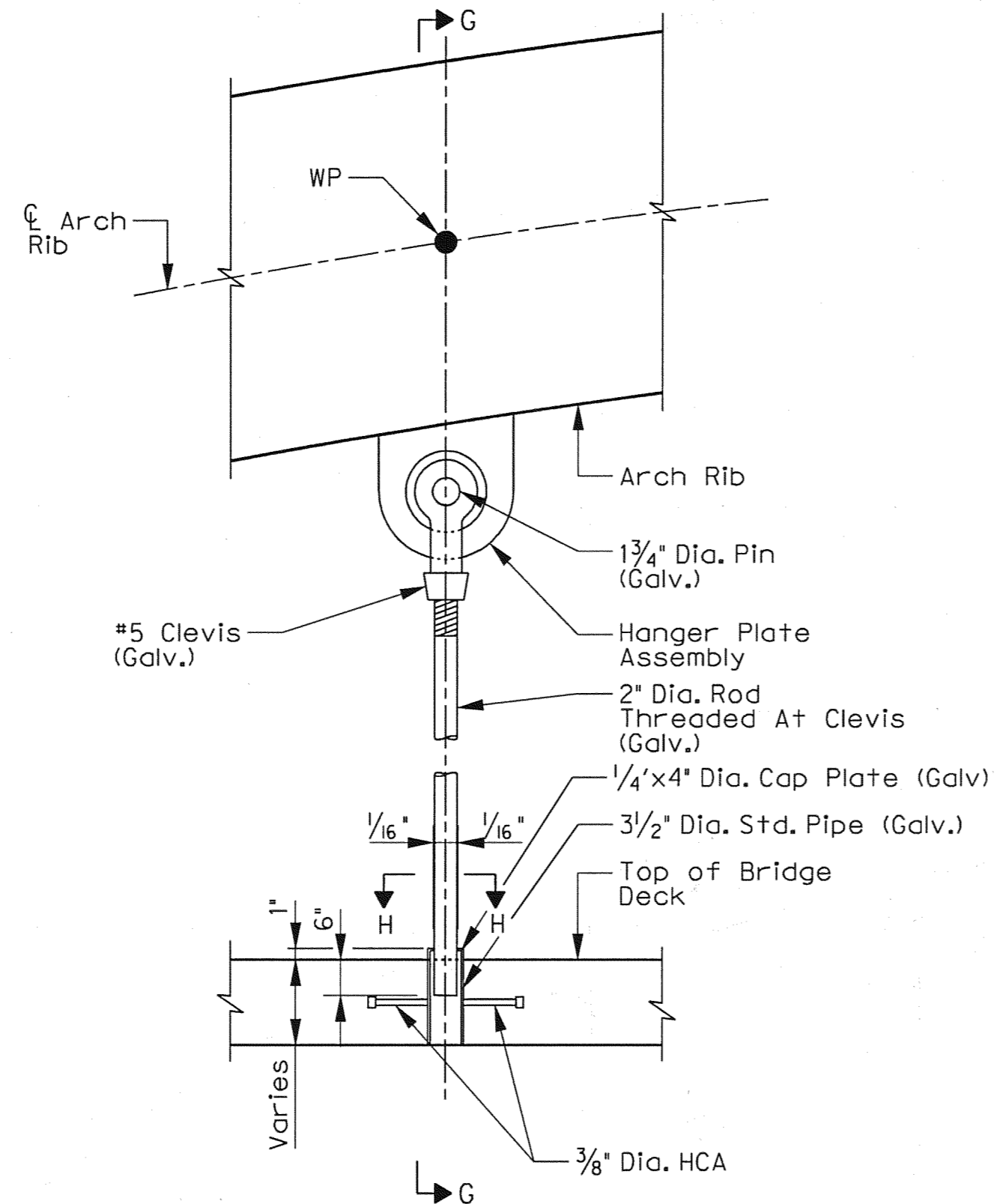
**HANGER PLATE ASSEMBLY**

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



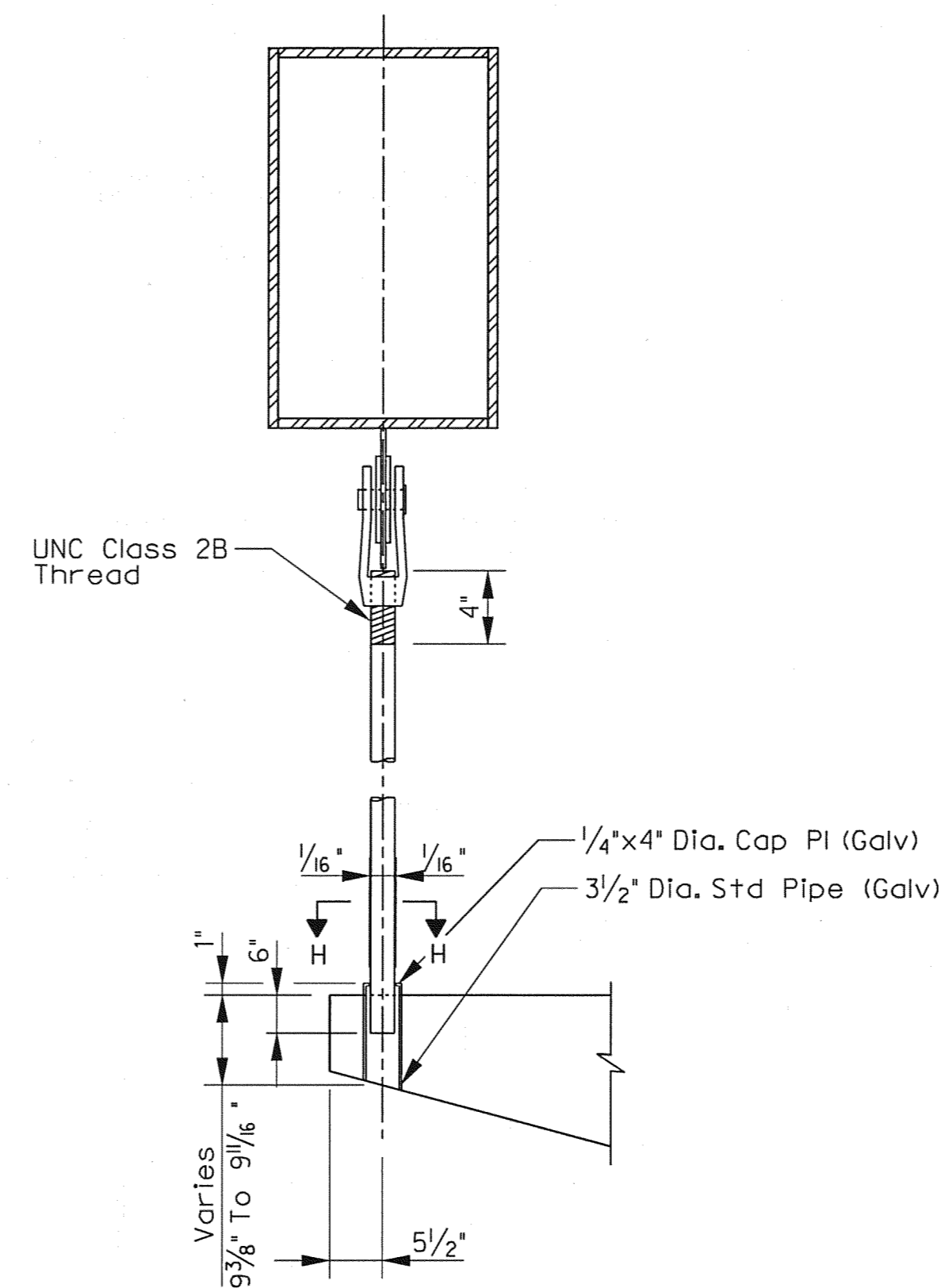
**SECTION F-F**

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



**ROD HANGER ASSEMBLY**

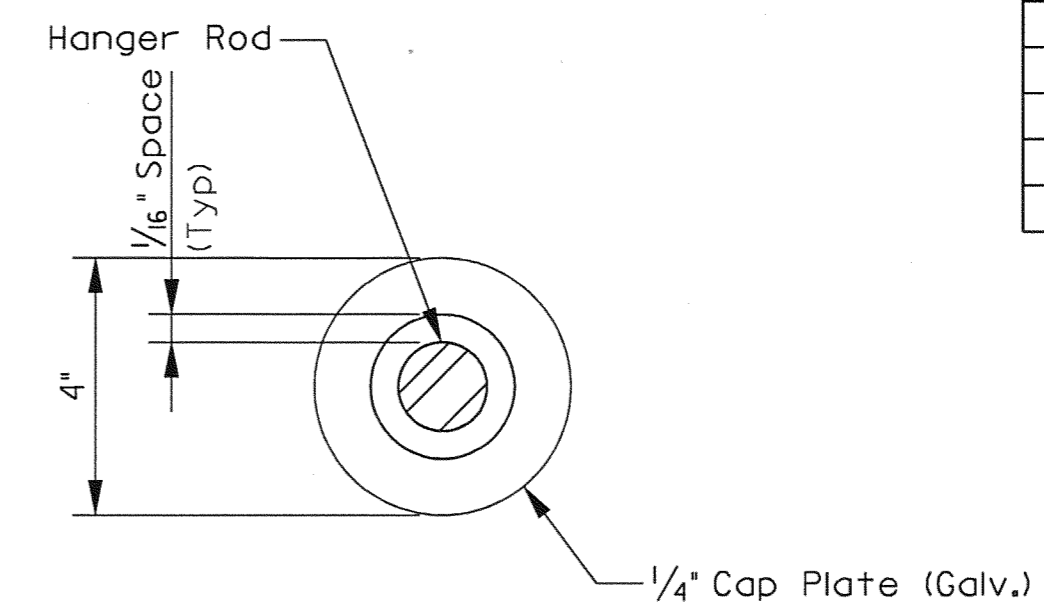
SCALE: 3/4" = 1'-0"



**SECTION G-G**

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

Note: Coordinate thread requirements with Clevis manufacturer.



**SECTION H-H**

SCALE: N.T.S.

Hanger	Quantity	Length (Feet)
1	2	8'-1 1/2"
2	2	17'-0"
3	2	23'-4 1/2"
4	2	27'-2 1/2"
5	2	28'-7"
6	2	27'-5"
7	2	23'-9"
8	2	17'-7"
9	2	8'-11 1/4"

**HANGER LENGTHS**



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NO.	REVISION	BY	DATE
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PROJECT	DESIGN	DRAWN	DATE
27379	ESC	AHH	APRIL 2010
FILE	SHEET		
-	S1-24		



USER: ah2441

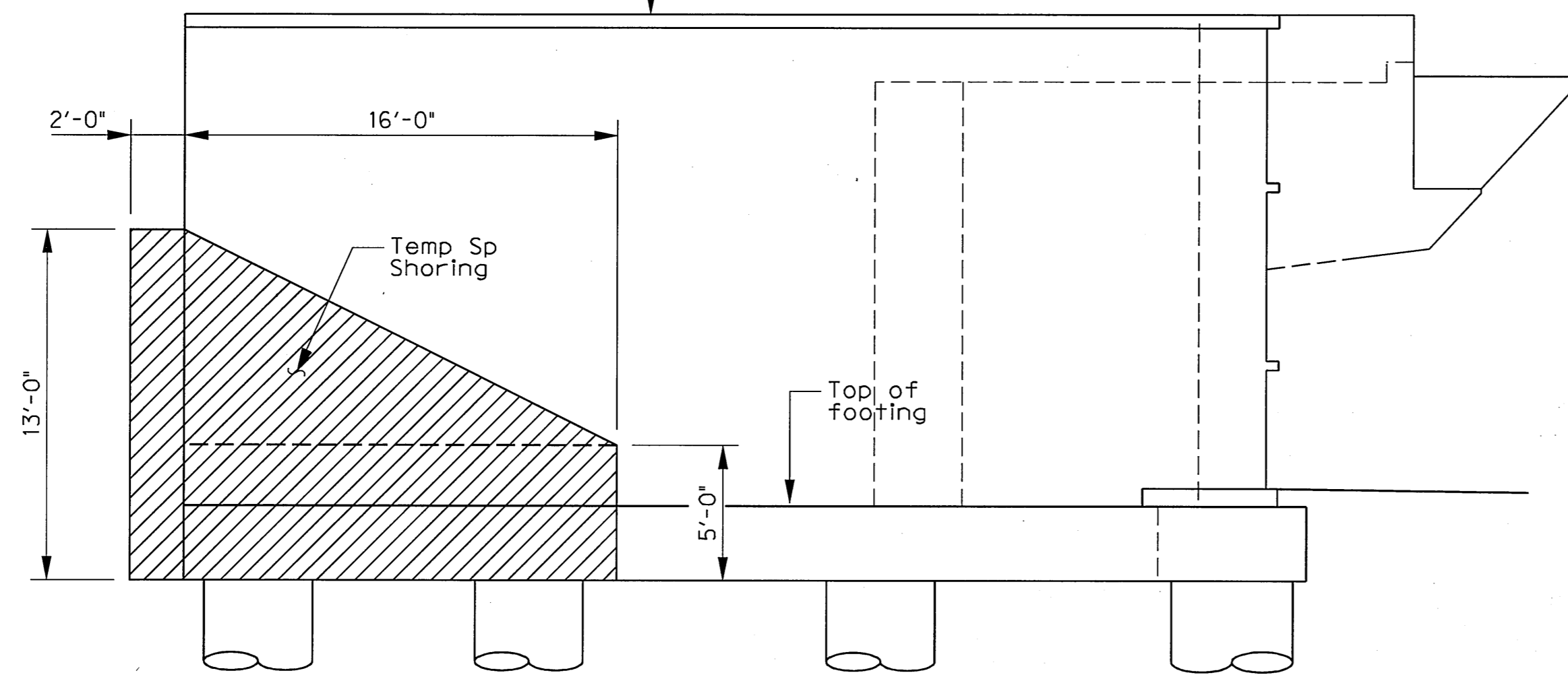
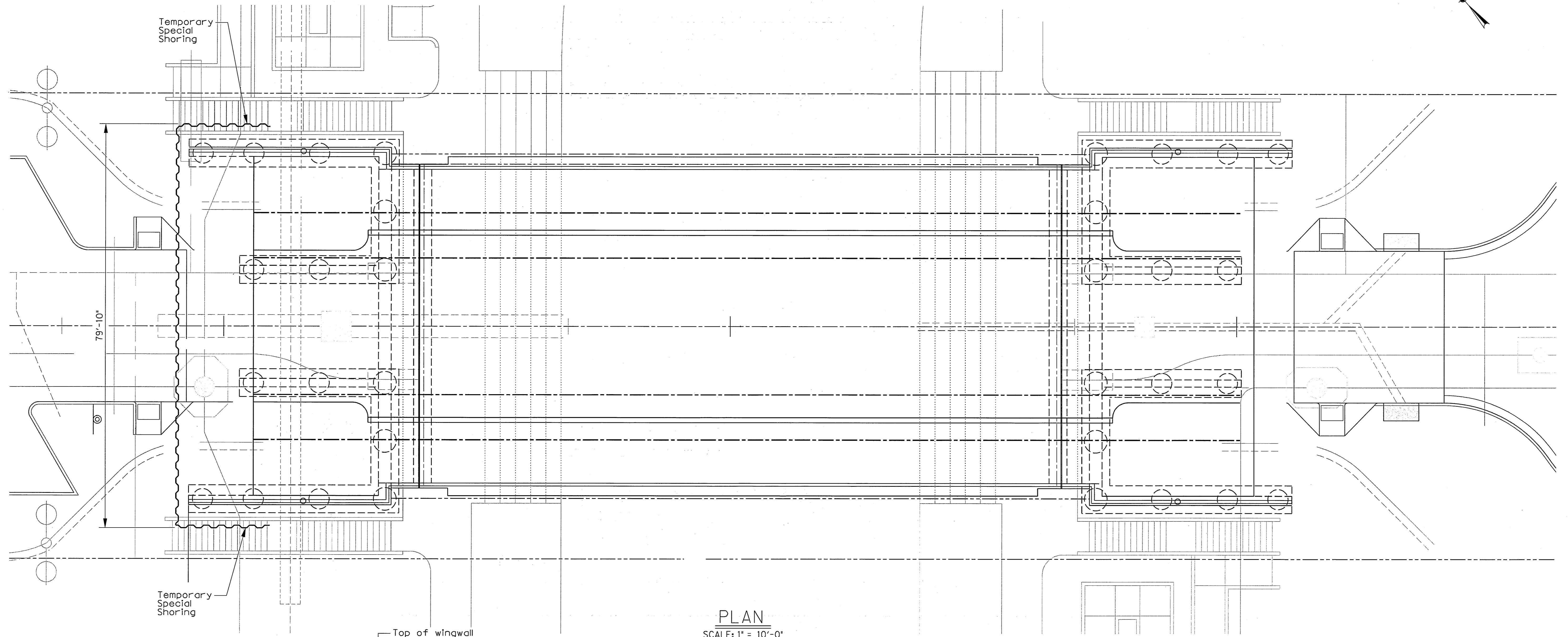
OFFICE: RCH

PROJECT # 27379

FILE: 27379-SC-PONTEB-TS01.dgn

TIME: 3:11:52 PM

DATE: 4/29/2010



Note: Dimensions shown are for quantify calculations only. Actual dimensions may vary.



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NO.	REVISION	BY	DATE		
<p><b>ADDISON</b> TOWN OF ADDISON DALLAS COUNTY, TEXAS</p>					
<p>VITRUVIAN PARK BRIDGES PONTE AVENUE</p>					
<p>BRIDGE LAYOUT TEMPORARY SPECIAL SHORING</p>					
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PROJECT	DESIGN	DRAWN	DATE	FILE	SHEET
27379	ESC	AHH	APRIL 2010	-	S1-25