

**CODES AND DESIGN SPECIFICATIONS:**

1. AMERICAN ASSOCIATION OF STATE HIGHWAY AND TRANSPORTATION OFFICIALS LRFD BRIDGE DESIGN SPECIFICATIONS 2007 4TH EDITION.
2. TEXAS DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR CONSTRUCTION AND MAINTENANCE OF HIGHWAYS, STREETS AND BRIDGES

**DESIGN LIVE LOADING:**

1. BRIDGE DECK ..... AASHTO HL-93
2. OUTBOARD BRIDGE WALK ..... 85 PSF
3. AASHTO LRFD SEISMIC ZONE ..... 1

**COLLATERAL LOADING:**

1. FUTURE OVERLAY DEAD LOAD ..... 20 PSF

**CONCRETE STRENGTH REQUIREMENTS:**

1. STRUCTURAL CONCRETE SHALL CONFORM TO THE REQUIREMENTS OF TXDOT SPECIFICATION ITEM 421.
2. PROVIDE NORMAL WEIGHT CONCRETE HAVING THE FOLLOWING MINIMUM 28 DAY COMPRESSIVE STRENGTHS:

USAGE	CLASS	MIN. 28 DAY COMPRESSIVE STRENGTH (PSI)
BRIDGE DECK	H	6,000
BUTTRESS & PIER CAP	H	5,000
PIERS AS NOTED	H	5,000
ALL OTHER	H	4,000

**CONCRETE REINFORCEMENT:**

1. REINFORCING STEEL SHALL CONFORM TO THE REQUIREMENTS OF TXDOT SPECIFICATION ITEM 440.
2. REINFORCING STEEL SHALL BE DEFORMED BARS CONFORMING TO ASTM A615 GRADE 60.
3. REINFORCING STEEL IN THE BRIDGE DECK ONLY SHALL BE EPOXY COATED.
4. PROVIDE CORNER BARS AT ALL INTERSECTING REINFORCING MEMBERS IN WALLS AND BEAMS. CORNER BARS SHALL BE THE SAME SIZE AS THE LARGER INTERSECTING BAR AND SHALL HAVE THE MINIMUM LAP LENGTH SPECIFIED BY AASHTO (30 BAR DIAMETER MINIMUM).
5. THE FOLLOWING MINIMUM CONCRETE COVER SHALL BE PROVIDED FOR REINFORCEMENT:
  - A. BRIDGE DECK SLAB ..... 2" CLEAR
  - B. PIERS ..... 3" CLEAR
  - C. PILASTERS ..... 1 1/2" CLEAR
  - D. ABUTMENT WALLS ..... 1 1/2" CLEAR
  - E. BUTTRESS ..... 2" CLEAR

**DRILLED REINFORCED CONCRETE SHAFTS:**

1. DRILLED REINFORCED CONCRETE SHAFTS SHALL CONFORM TO THE REQUIREMENTS OF TXDOT SPECIFICATION ITEM 416.
2. DRILLED SHAFT DESIGN IS BASED ON AN ALLOWABLE VALUE OF 18,000 PSF END BEARING, 2,000 PSF SIDE FRICTION (COMPRESSION) AND 1,200 PSF SIDE FRICTION (TENSION) AS RECOMMENDED IN THE SUBSURFACE REPORT PREPARED BY GEOTEL ENGINEERING, INC. THEIR REPORT NO. E07-312, DATED DECEMBER 3, 2007.
3. DRILLED SHAFTS SHALL BE FOUNDED IN THE GRAY UN-WEATHERED SHALE BEARING STRATA WITH THE MINIMUM PENETRATION AS NOTED ON THE PLANS.
4. BOTTOM OF ALL SHAFT HOLES SHALL BE SMOOTH, DRY AND FREE OF ALL LOOSE MATERIAL BEFORE PLACING CONCRETE.
5. INCLINED SHAFTS MAY REQUIRE TEMPORARY CASING TO MAINTAIN SHAFT DIAMETER AND PREVENT SLOUGHING.
6. THE CONTRACTOR SHALL VERIFY THE DEPTH OF THE SHAFT PRIOR TO CUTTING REINFORCING CAGES. REINFORCING STEEL SHALL BE DELIVERED TO THE JOBSITE IN STANDARD LENGTHS AND CUT AS REQUIRED. 30 BAR DIAMETER LAPS WILL BE ALLOWED IN THE PIER STEEL IF NO MORE THAN 50 PERCENT OF THE BARS ARE LAPPED IN ANY 8 FOOT LENGTH OF THE PIER.
7. REINFORCING STEEL SHOP DRAWINGS SHALL INDICATE PLACING DRAWINGS FOR TEMPLATES TO SET DOWELS AND ANCHOR BOLTS. REINFORCING CAGES SHALL BE ADEQUATELY SUPPORTED TO PROVIDED CLEARANCES INDICATED ON THE DRAWINGS.
8. SHAFT HOLES SHALL BE CONCRETED WITHIN 8 HOURS OF DRILLING.
9. IF SUBSURFACE WATER CONDITIONS ARE SUCH THAT THE SHAFT HOLES CANNOT BE INSTALLED IN THE DRY CONDITION, THE CONTRACTOR SHALL INSTALL TEMPORARY CASING TO CONTROL WATER INTRUSION.

**STRUCTURAL STEEL:**

1. STRUCTURAL STEEL FABRICATION AND ERECTION SHALL CONFORM TO THE REQUIREMENTS OF TXDOT SPECIFICATION ITEM 441, 442, 445, 448 & 449.
2. ALL STRUCTURAL STEEL SHALL BE ASTM A709 AND HAVE A MINIMUM YIELD STRENGTH OF 50 KSI.

**PT BAR HANGERS AND CONNECTIONS (BASE BID):**

1. HANGERS SHALL BE 2 1/2" MIN. DIA. ZINC COATED SMOOTH BARS WITH A MINIMUM YIELD STRENGTH OF 150 KSI
2. TOP CONNECTION CLEVIS AND BOTTOM CONNECTION STRESSING HARDWARE SHALL PROVIDE, AS A MINIMUM, FOR THE LOADS INDICATED ON THE DRAWINGS.

**STRUCTURAL STRAND (ALTERNATE BID):**

1. STRUCTURAL STRAND SHALL MEET THE REQUIREMENTS OF ASTM A586, BE 2 1/2" MIN. DIA., GALVANIZED AND FURNISH A MINIMUM 365 TON BREAKING STRENGTH.
2. STRUCTURAL STRAND COATING SHALL BE CLASS A FOR ALL WIRES OR AN EQUIVALENT SUBMITTED TO THE ENGINEER OF RECORD FOR REVIEW AND APPROVAL.
3. AS AN ALTERNATE, CHOSEN BY THE OWNER, STRUCTURAL STRAND COATING CAN BE CLASS A INNER WIRES AND CLASS C OUTER WIRES FOR ENHANCED CORROSION PROTECTION.

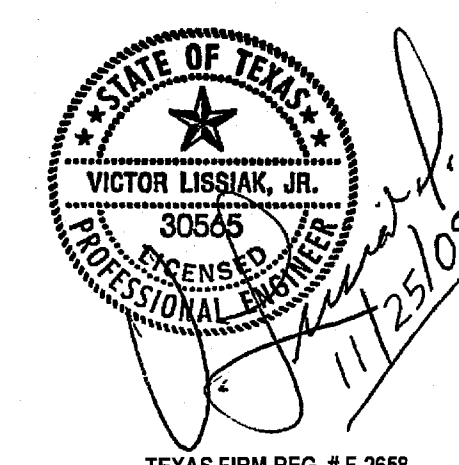
**NOTES TO THE CONTRACTOR:**

1. THE CONSTRUCTION CONTRACT WILL NOT BE AWARDED TO ANY CONTRACTOR THAT CANNOT DEMONSTRATE THROUGH PRIOR EXPERIENCE OR THROUGH THE EXPERIENCE OF THE CONTRACTOR'S FULL-TIME DESIGNATED ON-SITE PERSONNEL THAT SIMILAR PROJECTS HAVE BEEN CONSTRUCTED BY THE CONTRACTOR OR THEIR DESIGNEE.
2. THE CONTRACTOR SHALL CAREFULLY STUDY AND COMPARE ALL DISCIPLINES OF THE CONTRACT DOCUMENTS AND SHALL AT ONCE REPORT TO THE ENGINEER ANY ERROR, INCONSISTENCY OR OMISSION HE MAY DISCOVER PRIOR TO FABRICATION OF ANY MATERIALS OR COMMENCEMENT OF CONSTRUCTION.
3. THE CONTRACTOR SHALL COORDINATE ALL LEAVE-OUTS, DEPRESSIONS, SLEEVES AND OTHER SLAB PENETRATIONS WITH ALL CONTRACT DRAWINGS PRIOR TO CONSTRUCTION.
4. THE CONTRACTOR SHALL SUBMIT TO THE STRUCTURAL ENGINEER, WITH SUCH PROMPTNESS AS TO CAUSE NO DELAY IN HIS WORK OR IN THAT OF ANY OTHER CONTRACTOR, ELECTRONIC COPIES OF ALL SHOP AND/OR SETTING DRAWINGS AND SCHEDULES REQUIRED FOR THE WORK OF THE VARIOUS TRADES. THE SHOP DRAWINGS SHALL CONTAIN ALL OF THE INFORMATION NECESSARY TO FABRICATE MATERIALS AND SHALL NOTE ANY SPECIAL PROVISIONS CONCERNING ERECTION AND/OR PLACEMENT.
5. STRUCTURAL ENGINEER WILL REVIEW THE SHOP DRAWINGS AND APPROVE OR NOTE CORRECTIONS NECESSARY WITHIN 7 CALENDAR DAYS OF RECEIPT. THE CONTRACTOR SHALL MAKE CORRECTIONS NOTED AND UTILIZE THE APPROVED AND STAMPED SHOP DRAWINGS FOR FABRICATION AND CONSTRUCTION. THE CONTRACTOR SHALL MAINTAIN AN APPROVED SET OF THE SHOP DRAWING ON THE CONSTRUCTION SITE AT ALL TIMES.
6. THE STRUCTURAL ENGINEER'S APPROVAL OF THE SHOP DRAWINGS OR SCHEDULES SHALL NOT RELIEVE THE CONTRACTOR FROM RESPONSIBILITY FOR DEVIATIONS FROM THE CONTRACT DOCUMENTS, NOR SHALL IT RELIEVE HIM FROM THE RESPONSIBILITY OF ERRORS OF ANY SORT IN THE SHOP DRAWINGS OR SCHEDULES.

**BRIDGE DECK POST-TENSIONING STEEL:**

1. POST-TENSIONING SHALL CONFORM TO THE REQUIREMENTS OF TXDOT SPECIFICATION ITEM 426.
2. POST-TENSIONING STEEL SHALL BE SEVEN WIRE STRESS RELIEVED OR LOW RELAXATION STRAND FOR POST-TENSIONED CONCRETE MANUFACTURED IN ACCORDANCE WITH ASTM A-416 AND FREE FROM CORROSION HAVING A GUARANTEED MINIMUM ULTIMATE TENSILE STRENGTH OF 270 KSI.
 

NOMINAL DIAMETER	=	0.5"
AREA	=	0.153 SQ. IN.
MODULUS OF ELASTICITY	=	28,000 KSI
ULTIMATE STRENGTH	=	41.3 KIPS
MAX. TEMPORARY FORCE	=	33.0 KIPS
ANCHORING FORCE	=	28.7 KIPS
3. POST-TENSIONING STRAND SHALL BE UNCOATED AND INSTALLED IN A GALVANIZED FLAT DUCT. THE DUCT SIZE SHALL BE APPROPRIATE FOR HOUSING THE MINIMUM NUMBER OF REQUIRED STRANDS.
4. ALL ANCHORING HARDWARE SHALL MEET THE MINIMUM REQUIREMENTS SET FORTH FOR THE FLAT DUCT SYSTEM AND SHALL PROVIDE FOR THE MINIMUM NUMBER OF STRANDS REQUIRED TO PROVIDE THE EFFECTIVE FORCE SHOWN ON THE PLANS.
5. ANCHOR CASTINGS SHALL BE APPROPRIATE FOR THE FLAT DUCT SYSTEM.
6. APPROPRIATE ANCHOR CASTINGS FOR THE FLAT DUCT SYSTEM SHALL HAVE SHOP PRE-SEATED WEDGES AND PROVIDE FOR ALL NON-STRESS, FIXED-ENDS.
7. TENDONS SHALL BE FABRICATED WITH SUFFICIENT LENGTH BEYOND THE EDGE FORM TO ALLOW STRESSING. A MINIMUM LENGTH OF 12" AT EACH STRESSING END IS REQUIRED.
8. TENDONS SHALL BE CLEARLY IDENTIFIED BY CODE AND CALLED FOR ON PLACING DRAWINGS TO FACILITATE PLACEMENT.
9. SUFFICIENT SUPPORT BARS AND CHAIRS SHALL BE PROVIDED TO MAINTAIN PROPER DRAPE PROFILE THROUGHOUT THE CONCRETE PLACEMENT. ALL CHAIRS TO BE STAPLED TO FORM WITH GALVANIZED STAPLES IMMEDIATELY AFTER PLACEMENT.
10. THE TENDON PROFILE SHOWN ON PLANS INDICATES DIMENSIONS AT ALL SUPPORTS AND AT MID-SPAN BETWEEN SUPPORTS. THESE DIMENSIONS LOCATE THE CENTER OF TENDON RELATIVE TO THE SOFFIT OF THE BEAM OR SLAB.
11. CONCRETE SHALL BE PLACED IN SUCH A MANNER AS TO INSURE THAT ALIGNMENT OF POST-TENSIONING TENDONS REMAINS UNCHANGED. SPECIAL PROVISION SHALL BE MADE TO INSURE PROPER VIBRATION OF CONCRETE AROUND ANCHORAGES.
12. INSTALL WEDGES SIDE BY SIDE, NOT ONE UNDER, ONE OVER.
13. ALL STRESSING WILL BE PERFORMED UNDER THE SUPERVISION OF QUALIFIED PERSONNEL.
14. THE STRESSING OPERATION SHALL NOT COMMENCE UNTIL CONCRETE TEST CYLINDERS, CURED UNDER JOBSITE CONDITIONS, HAVE BEEN TESTED AND INDICATE THAT CONCRETE IN THE SLAB HAS ATTAINED A MINIMUM COMPRESSIVE STRENGTH OF 4,500 PSI.
15. ALL POST-TENSIONING STEEL SHALL BE STRESSED BY MEANS OF HYDRAULIC JACKS, EQUIPPED WITH ACCURATE READING, CALIBRATED HYDRAULIC PRESSURE GAUGES. A CALIBRATION CHART WILL ACCOMPANY EACH JACK. MEASURED ELONGATION AND JACK GAUGE READING AGREEMENT OF WITHIN 10 % SHALL BE SATISFACTORY.
16. THE MAXIMUM JACKING FORCE TO OVERCOME FRICTION SHALL NOT EXCEED 80 % OF THE ULTIMATE FORCE OF THE TENDON (41.3K.80 = 33.0 KIPS). TENDONS SHALL BE ANCHORED AT A FORCE NOT TO EXCEED 70 % OF THE ULTIMATE FORCE OF THE TENDON (41.3K.70 = 28.9 KIPS).
17. AFTER STRESSING IS COMPLETED AND WITH FINAL APPROVAL FROM THE STRUCTURAL ENGINEER, TENDONS SHALL BE CUT TO WITHIN 1" FROM THE FACE OF CONCRETE.
18. STRESSING POCKETS SHALL BE FILLED FLUSH WITH A NON-SHRINK GROUT WITHIN 7 DAYS AFTER STRESSING.
19. VERTICAL PLACEMENT TOLERANCES IN TENDONS SHALL BE LIMITED TO ±1/4".
20. BURSTING BAR REINFORCEMENT SHALL BE PROVIDED.
21. AFTER COMPLETION OF STRESSING, THE FLAT DUCTS SHALL BE FILLED WITH GROUT IN ACCORDANCE PTI SPECIFICATION FOR GROUTING OF POST-TENSIONED STRUCTURES. GROUT SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH AT 7 DAYS OF 3000 PSI AND A MINIMUM COMPRESSIVE STRENGTH OF 5000 PSI AT 28 DAYS. COMPRESSIVE STRENGTH SHALL BE CONFIRMED ON THE BASIS OF GROUT CUBE SPECIMENS.



PRELIMINARY--FOR REVIEW ONLY		01/25/09	
NO.	REVISION	BY	DATE
<b>TOWN OF ADDISON</b> DALLAS COUNTY, TEXAS			
<b>VITRUVIAN PARK BRIDGES</b>			
<b>VEHICULAR BRIDGE</b>			
<b>GENERAL NOTES</b>			
<b>VIEWTECH, INC.</b>		4205 Beltway Dr. - Addison, Texas 75001	
Structural Engineers		(972) 661-8187 Fax (972) 661-8172	
PROJECT	DESIGN	DATE	SHEET
2007.144	VL	NOV. 25 2009	SB100

**CODES AND DESIGN SPECIFICATIONS:**

1. BUILDING CODE: 2006 EDITION OF THE INTERNATIONAL BUILDING CODE.
2. SUPPLEMENTAL CODES AND REFERENCES TO BE USED FOR DESIGN, DETAILING AND CONSTRUCTION ARE:
  - A. "BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE" (ACI 318-05).
  - B. "SPECIFICATION FOR STRUCTURAL CONCRETE FOR BUILDINGS" (ACI 301-05).
  - C. "STEEL CONSTRUCTION MANUAL" (AISC, THIRTEENTH EDITION).
  - D. "NATIONAL DESIGN SPECIFICATION FOR WOOD CONSTRUCTION" (2005).
3. AMERICAN ASSOCIATION OF STATE HIGHWAY AND TRANSPORTATION OFFICIALS LRFD BRIDGE DESIGN SPECIFICATIONS 2007 4TH EDITION.

**DESIGN LIVE LOADING:**

1. BRIDGE DECK ..... 100 PSF
2. WIND 3 SEC. GUST EXPOSURE B ..... 90 MPH
3. SEISMIC SITE CLASSIFICATION ..... C
4. SPECTRAL RESPONSE ACCELERATION (Ss, S1) ..... 0.125, 0.052

**CONCRETE MIX DESIGNS:**

1. PROVIDE NORMAL WEIGHT CONCRETE HAVING THE FOLLOWING MINIMUM 28 DAY COMPRESSIVE STRENGTHS AND GENERAL CHARACTERISTICS:

USAGE	MIN. 28 DAY COMPRESSIVE STRENGTH
BRIDGE DECK	5,000
ABUTMENTS & PIERS	4,000
ALL OTHER	4,000

2. MINIMUM CONCRETE 28 DAY COMPRESSIVE STRENGTH SHALL BE BASED ON HISTORICAL PERFORMANCE DATA FROM THE SELECTED TRANSIT MIX CONCRETE SUPPLIER AND APPROVED BY THE ENGINEER.
3. IT SHALL BE THE RESPONSIBILITY OF THE CONCRETE SUPPLIER TO SELECT THE PROPER TYPE OF PORTLAND CEMENT (INCLUDING QUANTITIES), AGGREGATES (INCLUDING QUANTITIES) AND WATER CEMENT RATIO TO PRODUCE THE REQUIRED MINIMUM 28 DAY COMPRESSIVE STRENGTHS.
4. IT SHALL BE THE RESPONSIBILITY OF THE CONCRETE SUPPLIER TO RECOMMEND ANY ENHANCING AGENTS OR ADMIXTURES TO PROVIDE A WORKABLE AND DURABLE PRODUCT.
5. IT SHALL BE THE RESPONSIBILITY OF THE CONCRETE SUPPLIER TO COORDINATE WITH THE GENERAL CONTRACTOR FOR ANY ADJUSTMENTS WHICH MAY BE NECESSARY TO PROVIDE FOR HIGH EARLY STRENGTHS TO FACILITATE AND ELIMINATE DELAYS IN CONSTRUCTION.
6. IT SHALL BE THE RESPONSIBILITY OF THE CONCRETE SUPPLIER TO COORDINATE WITH THE GENERAL CONTRACTOR FOR ANY ADJUSTMENTS WHICH MAY BE NECESSARY TO PROVIDE FOR HOT WEATHER OR COLD WEATHER CONCRETING PRECAUTIONS.

**CONCRETE REINFORCEMENT:**

1. REINFORCING STEEL SHALL BE NEW DEFORMED BILLET STEEL CONFORMING TO A.S.T.M. A-615, GRADE 60.
2. ALL REINFORCING STEEL IN THE BRIDGE DECK ONLY SHALL BE EPOXY COATED.
3. REINFORCING BARS SHALL BE DETAILED IN ACCORDANCE WITH THE A.C.I. DETAILING MANUAL. PROVIDE BAR SUPPORTS AND SPACERS AS REQUIRED.
4. PROVIDE CORNER BARS AT ALL INTERSECTING REINFORCING MEMBERS IN WALLS AND BEAMS. CORNER BARS SHALL BE THE SAME SIZE AS THE LARGER INTERSECTING BAR AND SHALL PROVIDE A MINIMUM LAP OF 30 BAR DIAMETERS.
5. THE FOLLOWING MINIMUM CONCRETE COVER SHALL BE PROVIDED FOR REINFORCEMENT:
  - A. BRIDGE DECK SLAB ..... 1 1/2" CLEAR
  - B. PIERS ..... 3" CLEAR
  - C. PILASTERS ..... 1 1/2" CLEAR
  - D. ABUTMENT ..... 1 1/2" CLEAR
6. DETAILING OF REINFORCING BARS IN BEAMS SHALL BE AS FOLLOWS:
  - A. TOP AND BOTTOM BARS TO BE CONTINUOUS BETWEEN SUPPORTS.
  - B. TOP BARS AT THE ENDS OF BEAMS TO HAVE STANDARD 90 DEGREE HOOKS.
  - C. SPLICE TOP BARS AT THE MIDSPAN BETWEEN SUPPORTS. (U.N.O.)
  - D. SPLICE BOTTOM BARS DIRECTLY OVER SUPPORTS. (U.N.O.)
  - E. ALTERNATE SPLICES IN MIDDLE BARS BETWEEN SUPPORTS AND MID-SPANS WITH NO MORE THAN 1/2 OF THE BARS SPLICED AT ANY ONE LOCATION.
  - F. ALL BAR SPLICES SHALL BE 30 BAR DIAMETERS MINIMUM.

**STRAIGHT SHAFT PIER NOTES:**

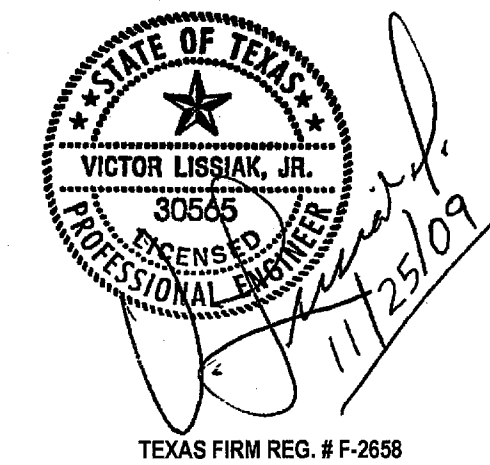
1. STRAIGHT SHAFT PIER DESIGN IS BASED ON AN ALLOWABLE VALUE OF 18,000 PSF END BEARING AND 2,000 PSF SIDE FRICTION AS RECOMMENDED IN THE SUBSURFACE REPORT PREPARED BY GEOTEL ENGINEERING, INC. THEIR REPORT NO. E07-312, DATED DECEMBER 3, 2007.
2. DRILLED PIERS SHALL BE FOUNDED IN THE GRAY UN-WEATHERED SHALE BEARING STRATA AS NOTED ON PLANS.
3. BOTTOM OF ALL PIER HOLES SHALL BE SMOOTH, DRY AND FREE OF ALL LOOSE MATERIAL BEFORE PLACING CONCRETE.
4. THE CONTRACTOR SHALL VERIFY THE DEPTH OF THE PIER PRIOR TO CUTTING PIER REINFORCING CAGES. PIER STEEL SHALL BE DELIVERED TO THE JOBSITE IN STANDARD LENGTHS AND CUT AS REQUIRED. 30 BAR DIAMETER LAPS WILL BE ALLOWED IN THE PIER STEEL IF NO MORE THAN 50 PERCENT OF THE BARS ARE LAPPED IN ANY 8 FOOT LENGTH OF THE PIER.
5. REINFORCING STEEL SHOP DRAWINGS SHALL INDICATE PLACING DRAWINGS FOR TEMPLATES TO SET DOWELS AND ANCHOR BOLTS. REINFORCING CAGES SHALL BE ADEQUATELY SUPPORTED TO PROVIDED CLEARANCES INDICATED ON THE DRAWINGS.
6. PIER HOLES SHALL BE CONCRETED WITHIN 8 HOURS OF DRILLING.
7. IF SUBSURFACE WATER CONDITIONS ARE SUCH THAT THE PIER HOLES CANNOT BE INSTALLED IN THE DRY CONDITION, THE CONTRACTOR SHALL INSTALL TEMPORARY CASING TO CONTROL WATER INTRUSION.

**STRUCTURAL STEEL:**

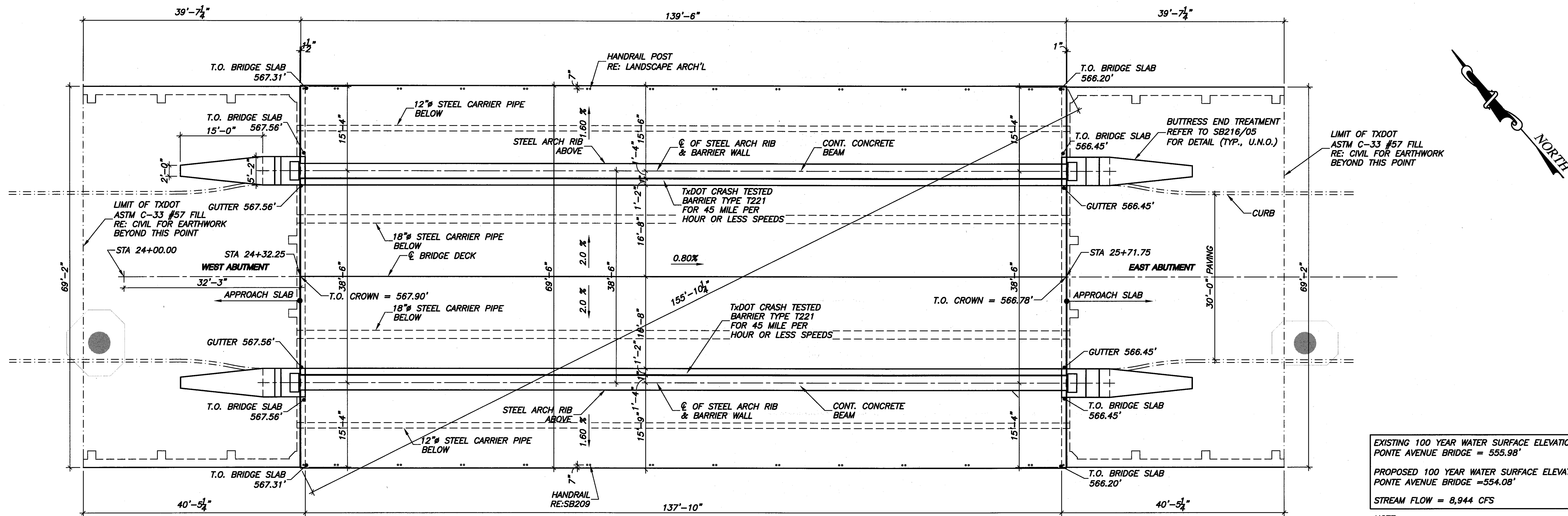
1. STRUCTURAL STEEL SHALL CONFORM TO THE A.I.S.C. "STEEL CONSTRUCTION MANUAL", THIRTEENTH EDITION.
2. WELDED CONNECTIONS SHALL CONFORM TO THE LATEST REVISED CODE OF THE AMERICAN WELDING SOCIETY. WELDING ELECTRODES SHALL CONFORM TO AWS A5.1 OR A5.5 FOR SERIES #E70 ELECTRODES.
3. BOLTS AND BOLTED CONNECTIONS SHALL CONFORM TO THE REQUIREMENTS OF THE "SPECIFICATIONS" FOR STRUCTURAL JOINTS USING A.S.T.M. A-325 BOLTS OR A490 BOLTS, AS APPROVED BY THE RESEARCH COUNCIL ON RIVETED AND BOLTED JOINTS USING ASTM A-325 BOLTS. USE BEARING TYPE BOLTS WITH THREADS EXCLUDED FROM THE SHEAR PLANE.
4. IN GENERAL, IT IS THE INTENT OF THESE PLANS AND SPECIFICATIONS THAT ALL SHOP CONNECTIONS ARE TO BE WELDED OR BOLTED AND ALL FIELD CONNECTIONS ARE TO BE BOLTED EXCEPT WHERE NOTED ON THE DRAWINGS OTHERWISE.
5. STRUCTURAL STEEL SHAPES, PLATES, ETC., SHALL CONFORM TO THE FOLLOWING MINIMUM REQUIREMENTS:
  - A. W SHAPE ..... ASTM A992, Fy = 50ksi
  - B. RECTANGULAR HSS ..... ASTM A500 Gr.B, Fy = 46ksi
  - C. ROUND HSS ..... ASTM A500 Gr.B, Fy = 42ksi
  - D. PIPE ..... ASTM A53 Gr.B, Fy = 35ksi
  - E. M,S,C,M,C,L ..... ASTM A36, Fy = 36ksi
  - F. HP ..... ASTM A572 Gr. 50, Fy = 50ksi
  - G. PLATES & BARS ..... ASTM A572 Gr. 50, Fy = 50ksi
6. ALL BEAM CONNECTIONS SHALL BE STANDARD DOUBLE ANGLE TYPE UNLESS DETAILED OTHERWISE. PLATE SIZES, NUMBER AND SIZE OF BOLTS FOR FIELD CONNECTIONS SHALL BE DESIGNED BY THE FABRICATOR. DESIGN STANDARD CONNECTIONS USING 55% OF THE TOTAL LOAD CAPACITY SHOWN IN THE BEAM TABLES, PART 3, THIRTEENTH EDITION OF THE A.I.S.C. CODE FOR GIVEN BEAM SPAN IF THE SHEAR IS NOT GIVEN. IN NO CASE SHALL THE MINIMUM NUMBER OF BOLTS BE LESS THAN 2 ROWS FOR W12 & SMALLER, 3 ROWS FOR W14, W16, & W18, 4 ROWS FOR W21 AND W24, 5 ROWS FOR W27 & W30 AND 6 ROWS FOR W33 AND W36.
7. PROVIDE A PRIME COAT OF RED OXIDE PAINT ON ALL STRUCTURAL STEEL SURFACES PRIOR TO SHIPMENT.
8. PROVIDE WEB STIFFENERS TO ALL BEAMS AT SUPPORT LOCATIONS. WELD STIFFENERS TO EACH SIDE OF BEAM CENTERED DIRECTLY ABOVE SUPPORT. MIN. PLATE THICKNESS IS 1/4".
9. ALL HEADED STUDS SHALL BE DRAWN ARC WELDED.

**BRIDGE PAINTING NOTES:**

1. PROVIDE SAMPLES OF PAINTED MATERIAL FOR COLOR VERIFICATION TO THE LANDSCAPE ARCHITECT FOR APPROVAL.



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<b>TOWN OF ADDISON</b> DALLAS COUNTY, TEXAS					
VITRUVIAN PARK BRIDGES					
<b>PEDESTRIAN BRIDGE</b> GENERAL NOTES					
VIEWTECH, INC.		4205 Beltway Dr. - Addison, Texas 75001			
Structural Engineers		(972) 661-8187 Fax (972) 661-8172			
PROJECT	DESIGN	DRAWN	DATE	FILE	SHEET
2007.144	VL	NERF	NOV. 25 2009	-	SB101

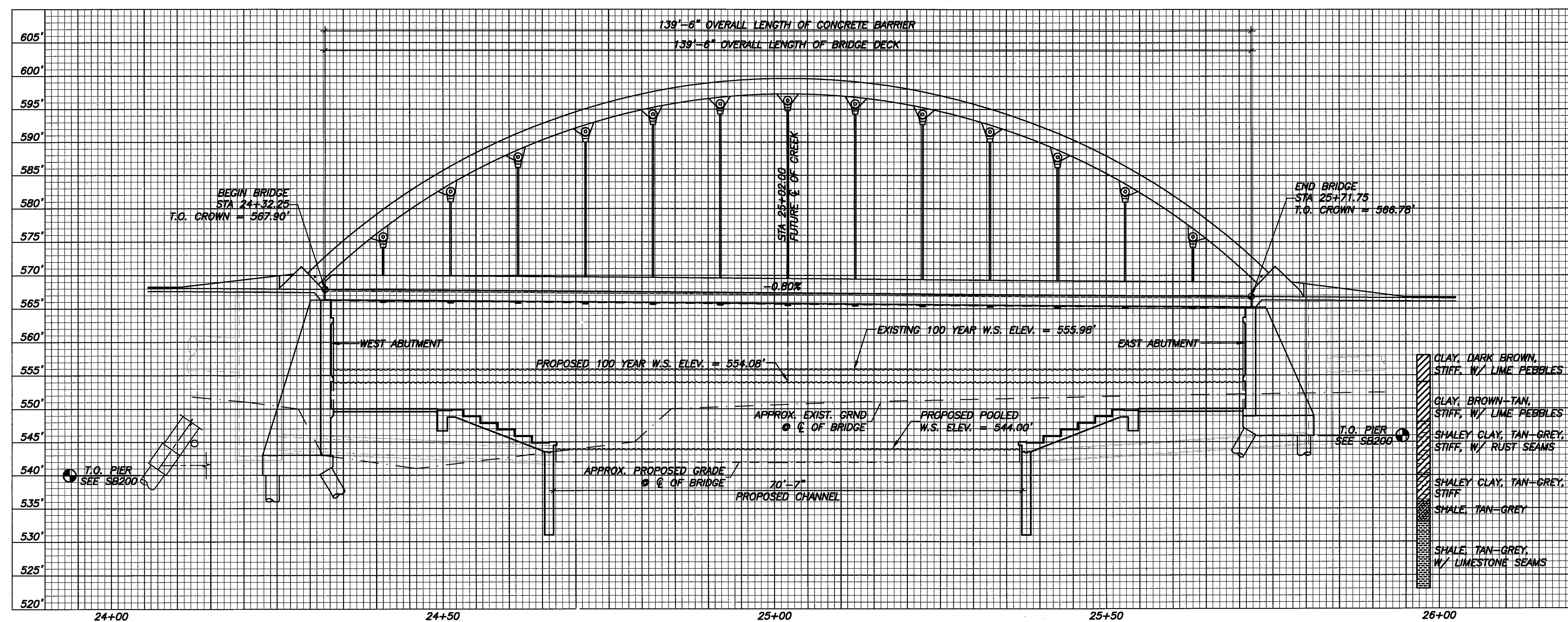


LIMIT OF TXDOT  
ASTM C-33 #57 FILL  
RE: CIVIL FOR EARTHWORK  
BEYOND THIS POINT

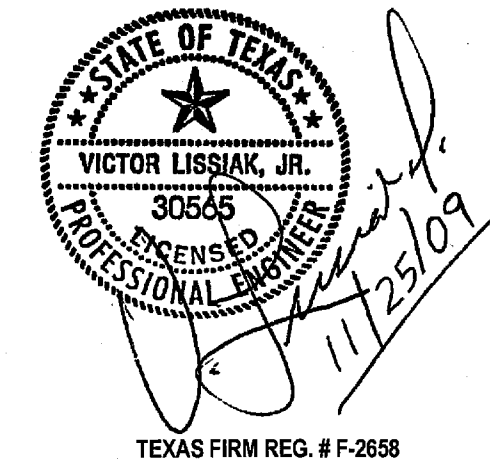
EXISTING 100 YEAR WATER SURFACE ELEVATION AT @ OF  
PONTE AVENUE BRIDGE = 555.98'  
PROPOSED 100 YEAR WATER SURFACE ELEVATION AT @ OF  
PONTE AVENUE BRIDGE = 554.08'  
STREAM FLOW = 8,944 CFS

NOTE:  
DO NOT IMPEDE EXISTING STREAM FLOW CAPACITY WITH  
BRIDGE DECK FORMING SYSTEM.

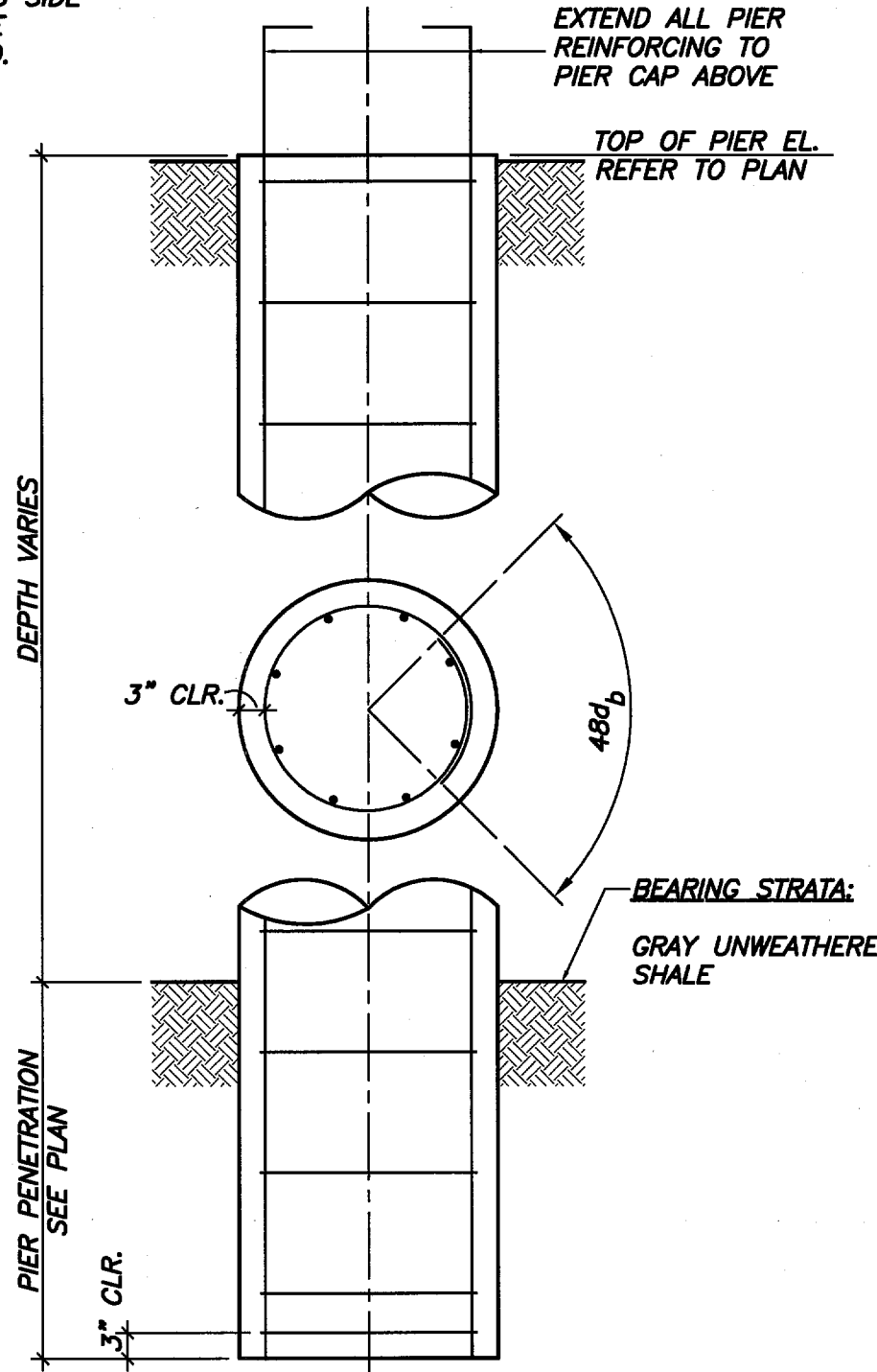
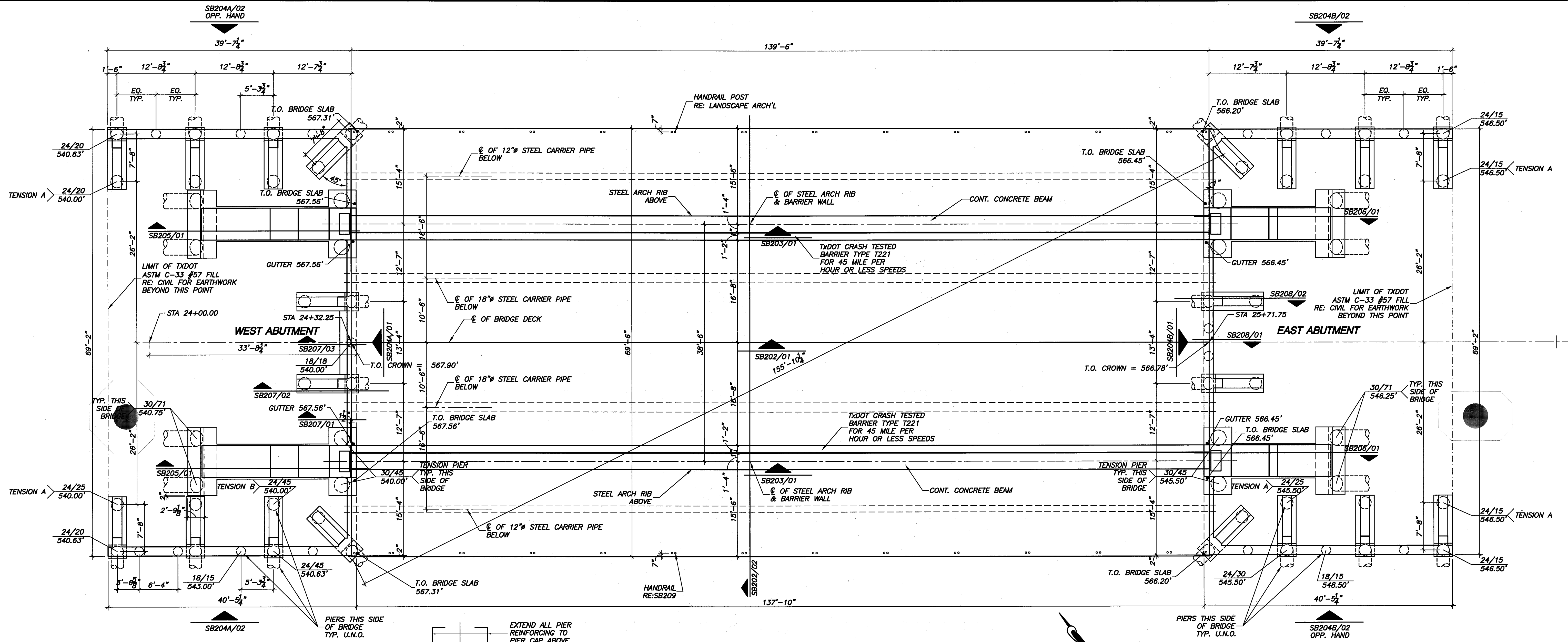
01 BRIDGE PLAN  
3/32"=1'-0"



02 BRIDGE PROFILE  
3/32"=1'-0"



PRELIMINARY-FOR REVIEW ONLY		01/25/09
NO.	REVISION	BY DATE
TOWN OF ADDISON DALLAS COUNTY, TEXAS		
VITRUVIAN PARK BRIDGES PONTE AVE		
BRIDGE LAYOUT PLAN		
VIEWTECH, INC. Structural Engineers		4205 Beltway Dr. - Addison, Texas 75001 (972) 661-8187 Fax (972) 661-8172
PROJECT	DESIGN	DATE
2007.144	VL	NOV. 25 2009
FILE	SHEET	
-	SB200 A	



**02** TYPICAL PIER DETAIL  
N.T.S.

**TYPICAL PIER REINFORCING:**

30" PIER SHAFT - TYPICAL  
8- #9 VERTICAL  $F_c' = 5000$  PSI  
TIES:  
TOP 20' #3 @ 8" O.C.  
REMAINING #3 @ 16" O.C.

30" PIER SHAFT - TENSION  
12- #9 VERTICAL  $F_c' = 5000$  PSI  
TIES:  
TOP 20' #3 @ 8" O.C.  
REMAINING #3 @ 16" O.C.

24" PIER SHAFT - "TYPICAL"  
8- #7 VERTICAL  $F_c' = 4000$  PSI  
TIES:  
#3 @ 12" O.C.

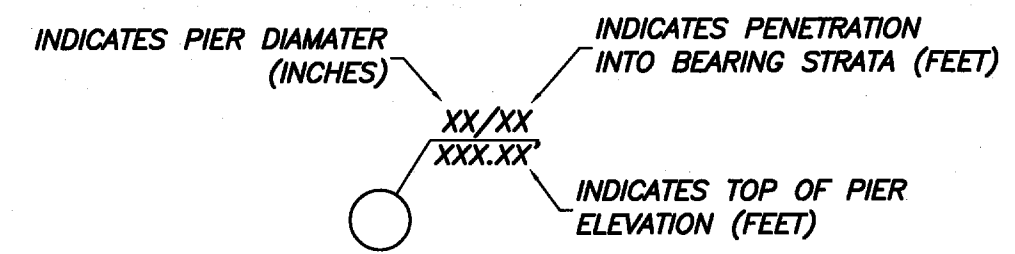
24" PIER SHAFT - "TENSION A"  
8- #7 VERTICAL  $F_c' = 4000$  PSI  
TIES:  
#3 @ 12" O.C.

24" PIER SHAFT - "TENSION B"  
10- #8 VERTICAL  $F_c' = 4000$  PSI  
TIES:  
#3 @ 12" O.C.

18" PIER SHAFT - TYPICAL  
6- #6 VERTICAL  $F_c' = 4000$  PSI  
TIES:  
#3 @ 10" O.C.

**01 BRIDGE DIMENSION CONTROL PLAN**  
1/8"=1'-0"

PROPOSED GRADE EARTH WORK  
NOT IN THIS CONTRACT.



**PIER LEGEND**

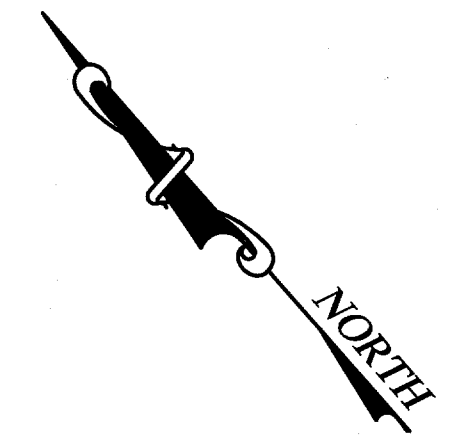


TABLE OF ESTIMATED QUANTITIES

	BRIDGE DECK	BARRIER WALL	BRIDGE ABUTMENT	BUTTRESS END TREATMENT
CU.YD. OF REINF. CONC.	533	32	780	12
L.F. OF REINF. CONC. PIER	444	1,710	1,090	
	WEST	EAST	TOTAL	
CU.YD. OF ASTM C-33 #57 BACKFILL MATERIAL	1,940	1,365	3,305	

PRELIMINARY-FOR REVIEW ONLY  
NO. \_\_\_\_\_ REVISION \_\_\_\_\_ BY \_\_\_\_\_ DATE 01/25/09

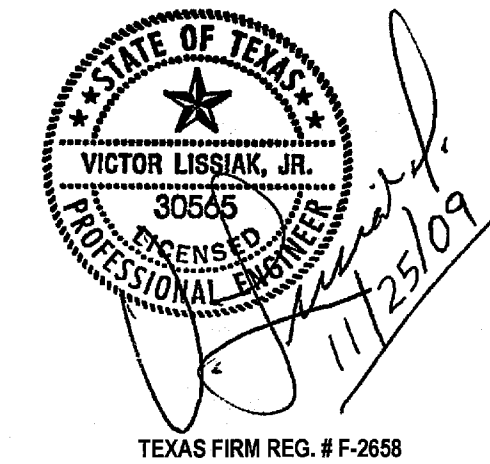
**TOWN OF ADDISON**  
DALLAS COUNTY, TEXAS

VITRUVIAN PARK BRIDGES  
PONTE AVE

**BRIDGE DIMENSION CONTROL PLAN**

**VIEWTECH, INC.** Structural Engineers  
4205 Beltway Dr. - Addison, Texas 75001  
(972) 661-8187 Fax (972) 661-8172

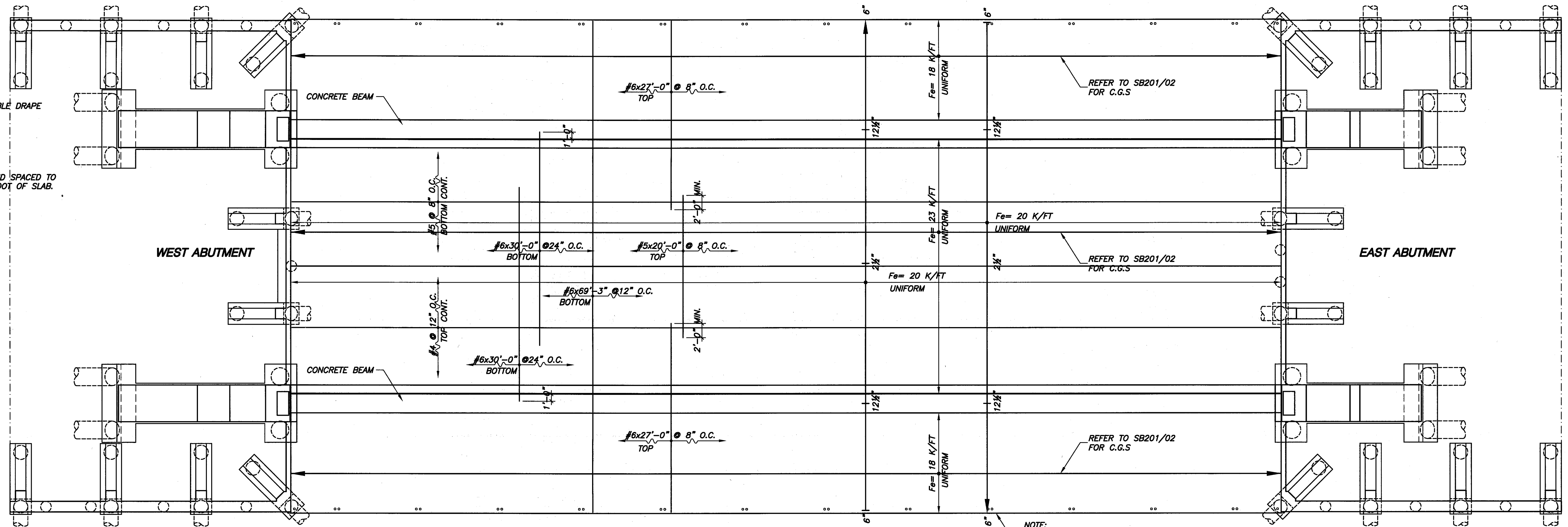
PROJECT	DESIGN	DRAWN	DATE	FILE	SHEET
2007.144	VL	NERF	NOV. 25 2009	-	SB200 B



TEXAS FIRM REG. # F-2658

**PLAN NOTES:**

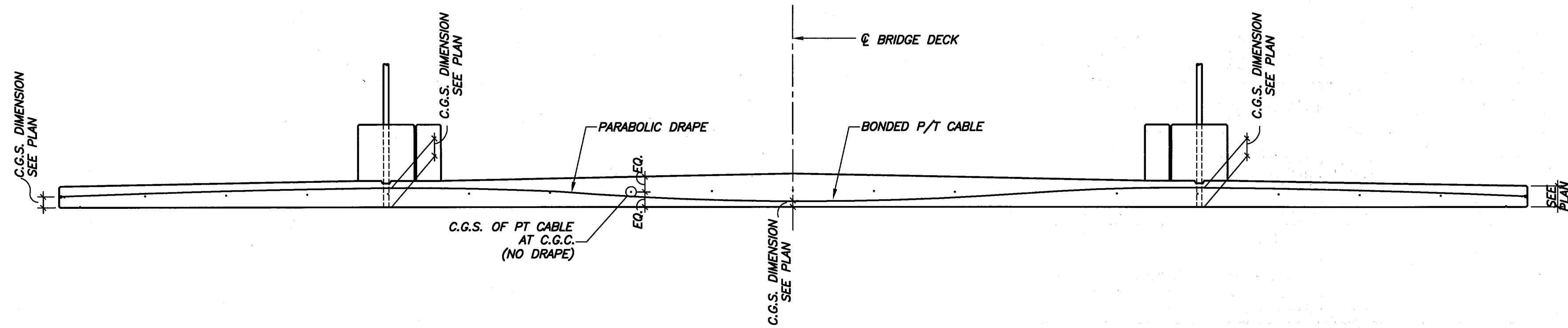
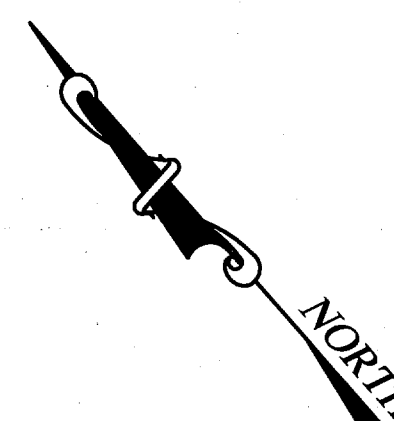
1. ALL POST-TENSIONING FORCES ARE EFFECTIVE.
2.  $3'' \leftarrow 1''$  REFER TO SB201/02 FOR CABLE DRAPE PROFILES.
3.  $\text{---}$  INDICATES CABLE DEAD END.
4.  $\text{---}$  INDICATES CABLE STRESSING END.
5. ALL CABLES NOTED AS UNIFORM SHALL BE GROUPED AND SPACED TO PROVIDE THE EFFECTIVE FORCE INDICATED PER LINEAL FOOT OF SLAB.



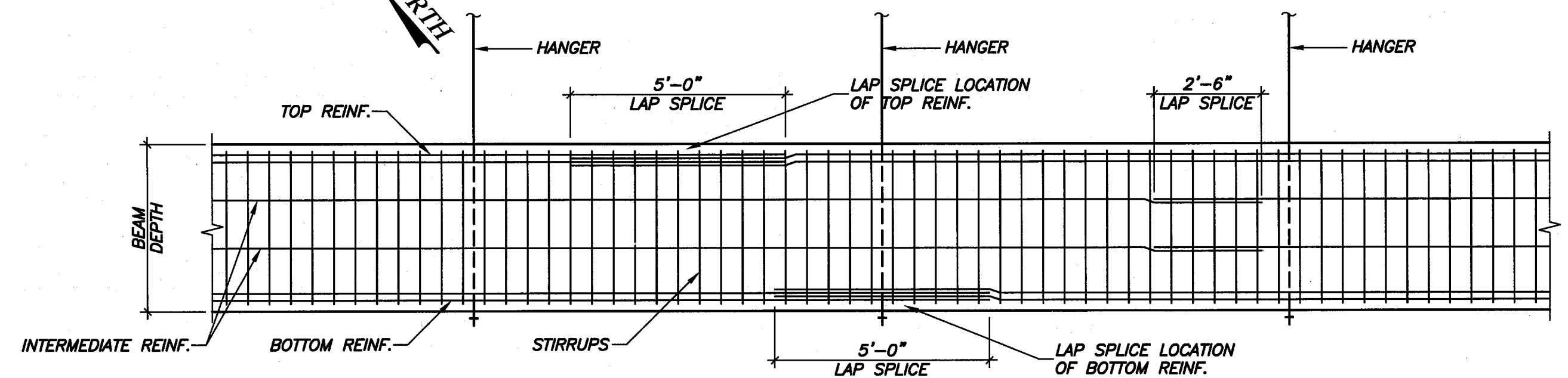
**TRAFFIC BRIDGE MILD STEEL & PT CABLE PLAN**

01  
1/2"=1'-0"

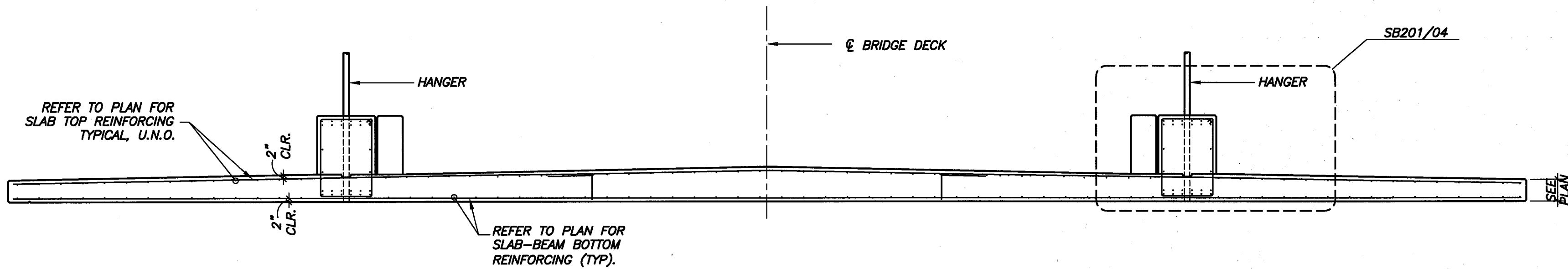
NOTE:  
TREAT CONCRETE EDGE AT POCKET FORMERS TO MASK POCKET FORMERS (TYP., U.N.O.)



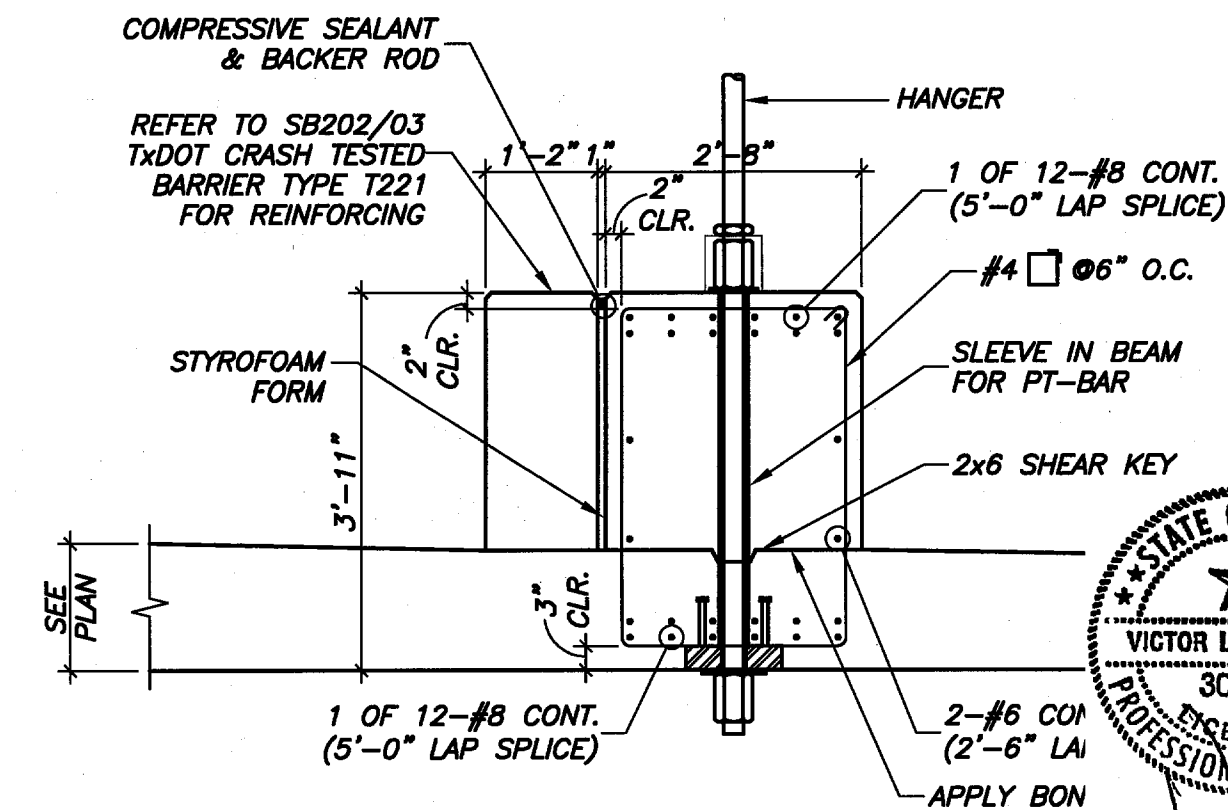
02 **POST-TENSIONED CABLE PROFILE**  
N.T.S.



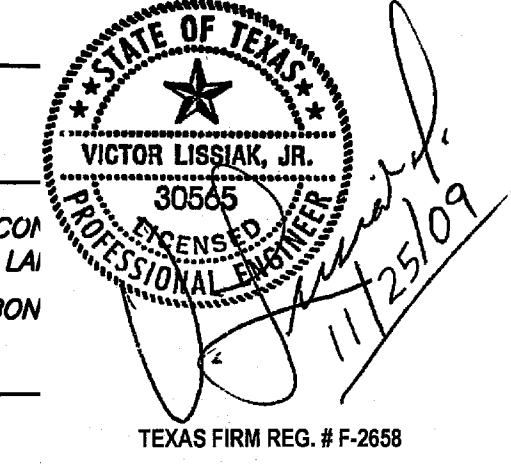
05 **CONCRETE BEAM REINFORCING PROFILE**  
3/8"=1'-0"



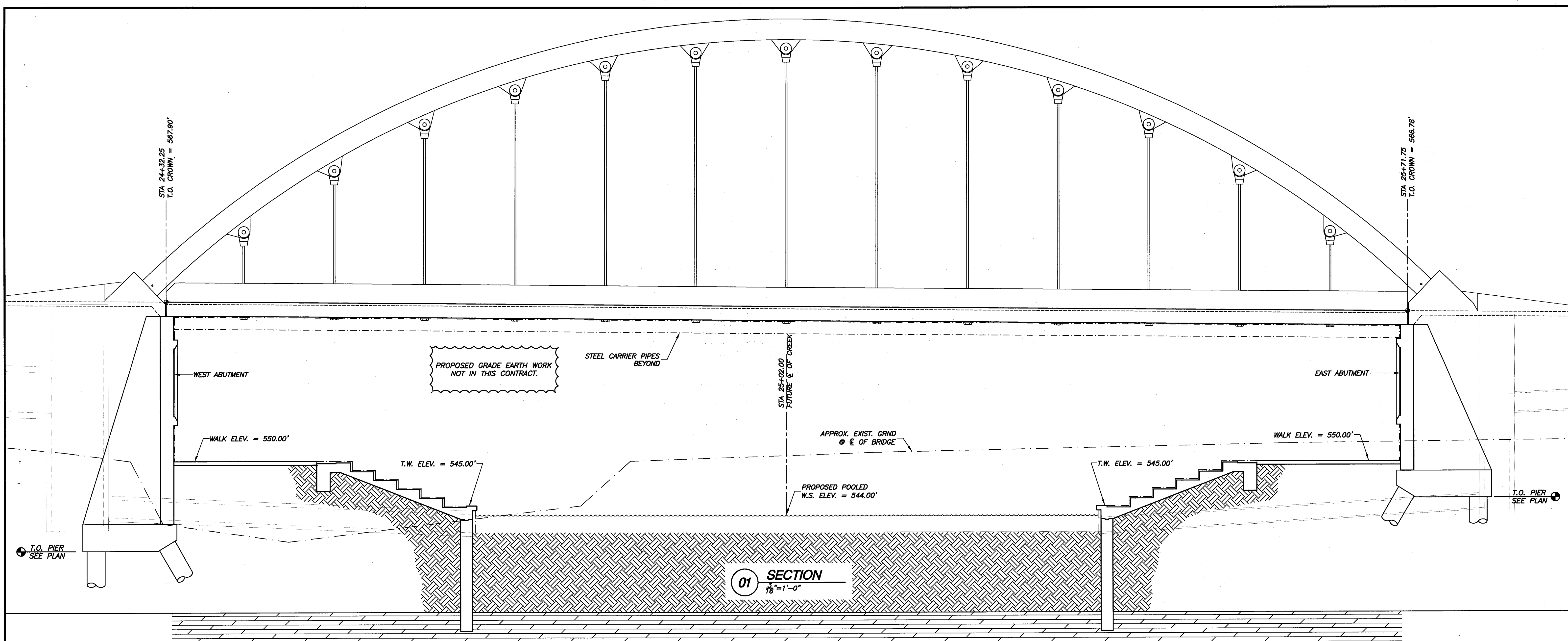
03 **MILD STEEL REINFORCING PROFILE**  
N.T.S.



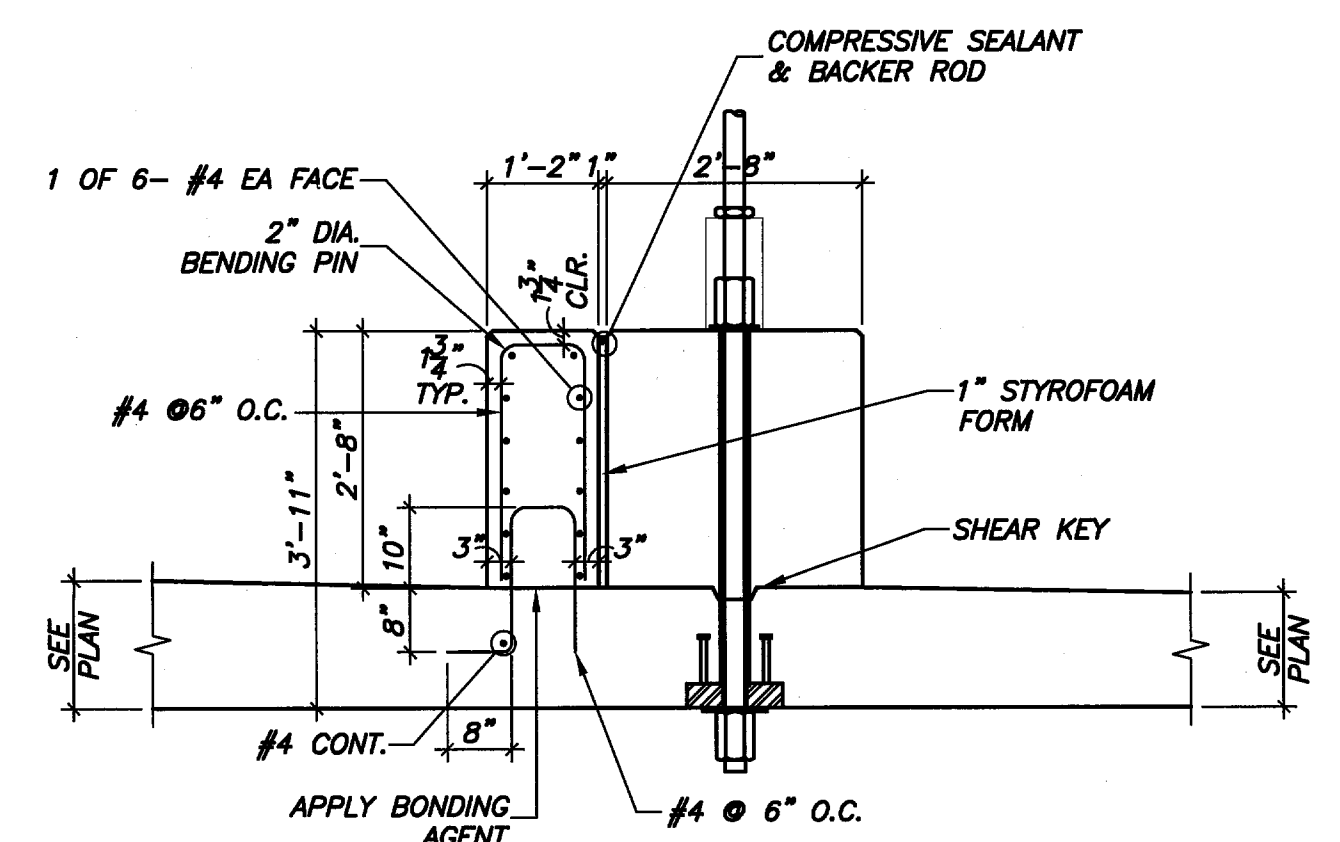
04 **TYP. BEAM REINFORCING DETAIL**  
1/2"=1'-0"



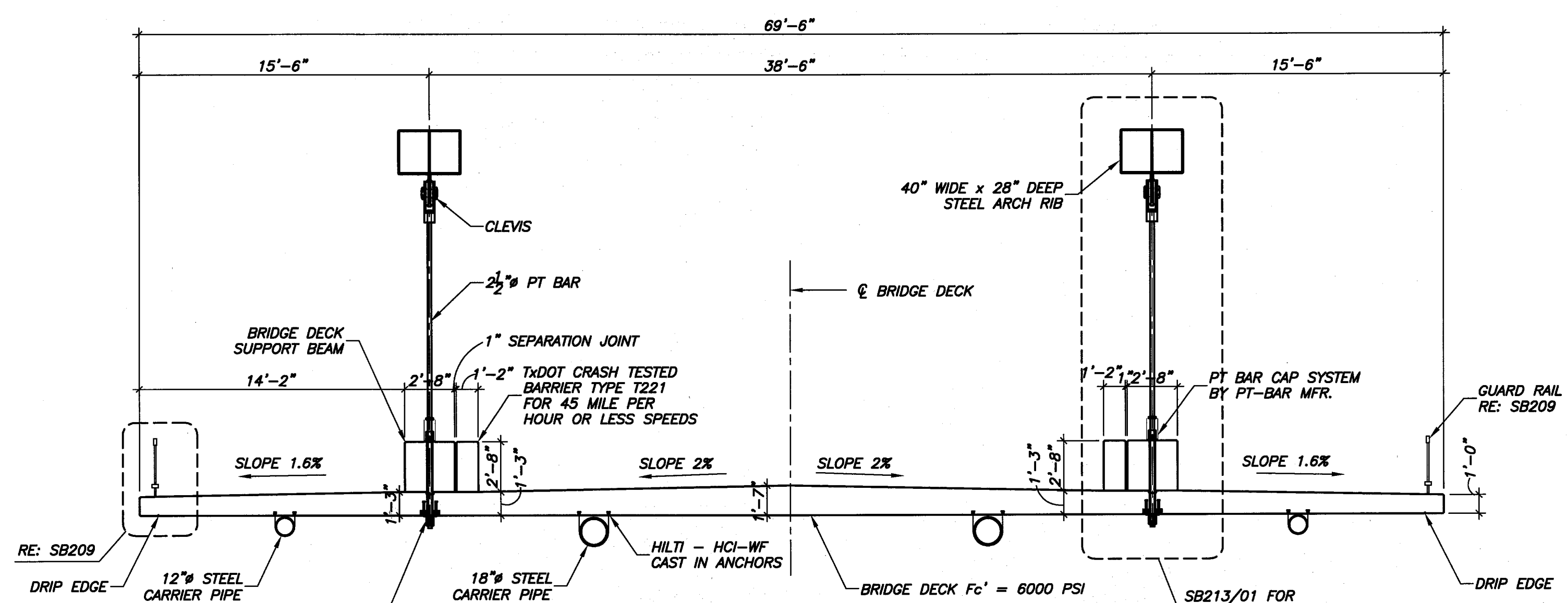
PRELIMINARY-FOR REVIEW ONLY		01/25/09	
NO.	REVISION	BY	DATE
TOWN OF ADDISON DALLAS COUNTY, TEXAS			
VITRUVIAN PARK BRIDGES PONTE AVE			
<b>MILD STEEL &amp; PT CABLE PLAN</b>			
<b>VIEWTECH, INC.</b>		4205 Beltway Dr. - Addison, Texas 75001	
Structural Engineers		(972) 661-8167 Fax (972) 661-8172	
PROJECT	DESIGN	DRAWN	FILE
2007.144	VL	NERF	NOV. 25 2009
			SHEET
			SB201



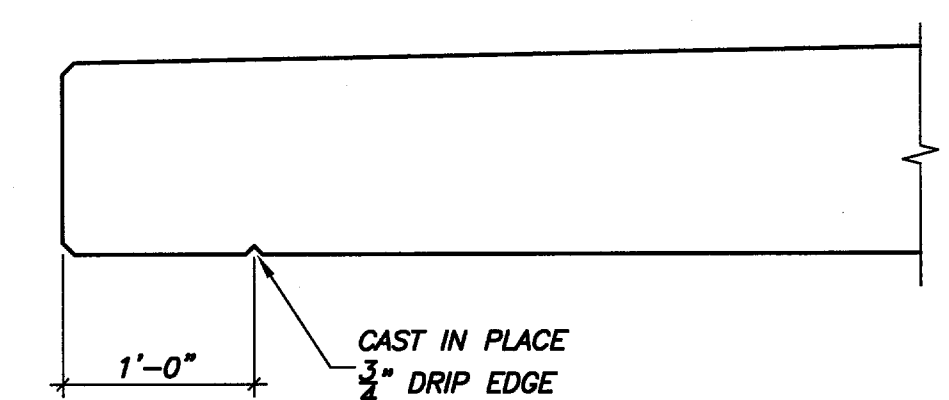
**01 SECTION**  
1/8" = 1'-0"



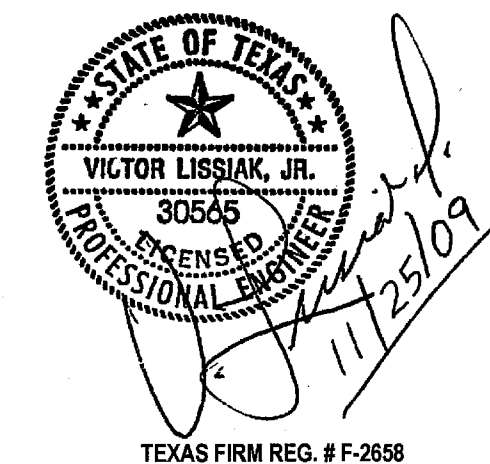
**03 TYP. TxDOT CRASH BARRIER DETAIL**  
1/2" = 1'-0"



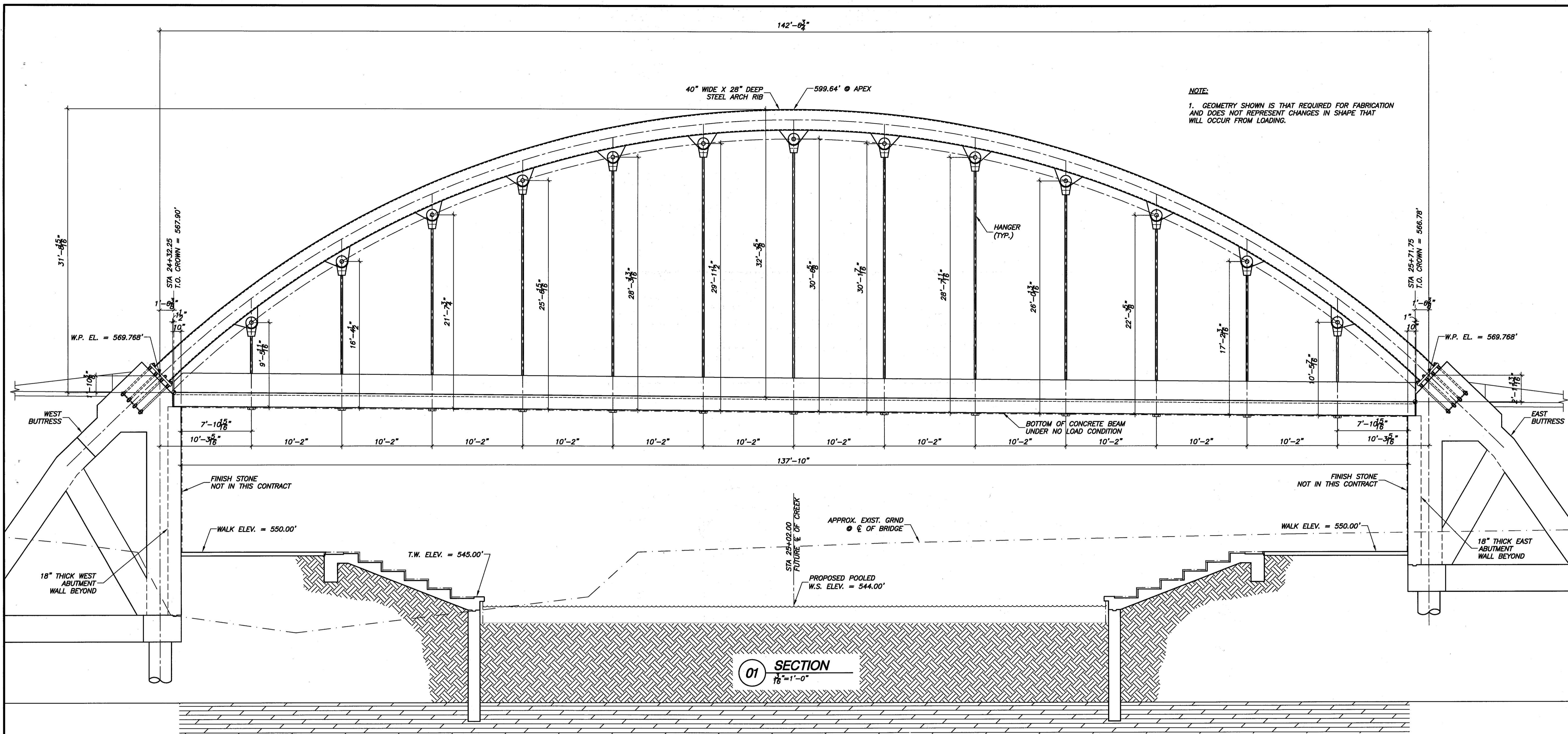
**02 BRIDGE DECK SECTION**  
1/8" = 1'-0"



**04 TYP. DRIP EDGE DETAIL**  
N.T.S.



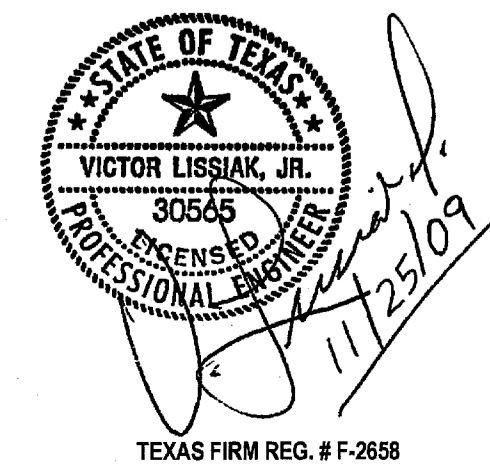
PRELIMINARY—FOR REVIEW ONLY		01/25/09
NO.	REVISION	BY DATE
<b>TOWN OF ADDISON</b> DALLAS COUNTY, TEXAS		
<b>VITRUVIAN PARK BRIDGES</b> PONTE AVE		
<b>SECTIONS</b>		
<b>VIEWTECH, INC.</b> Structural Engineers		4205 Beltway Dr. - Addison, Texas 75001 (972) 661-8187 Fax (972) 661-8172
PROJECT	DESIGN	DATE
2007.144	VL	NOV. 25 2009
DRAWN	FILE	SHEET
NERF	-	<b>SB202</b>



NOTE:  
 1. GEOMETRY SHOWN IS THAT REQUIRED FOR FABRICATION AND DOES NOT REPRESENT CHANGES IN SHAPE THAT WILL OCCUR FROM LOADING.

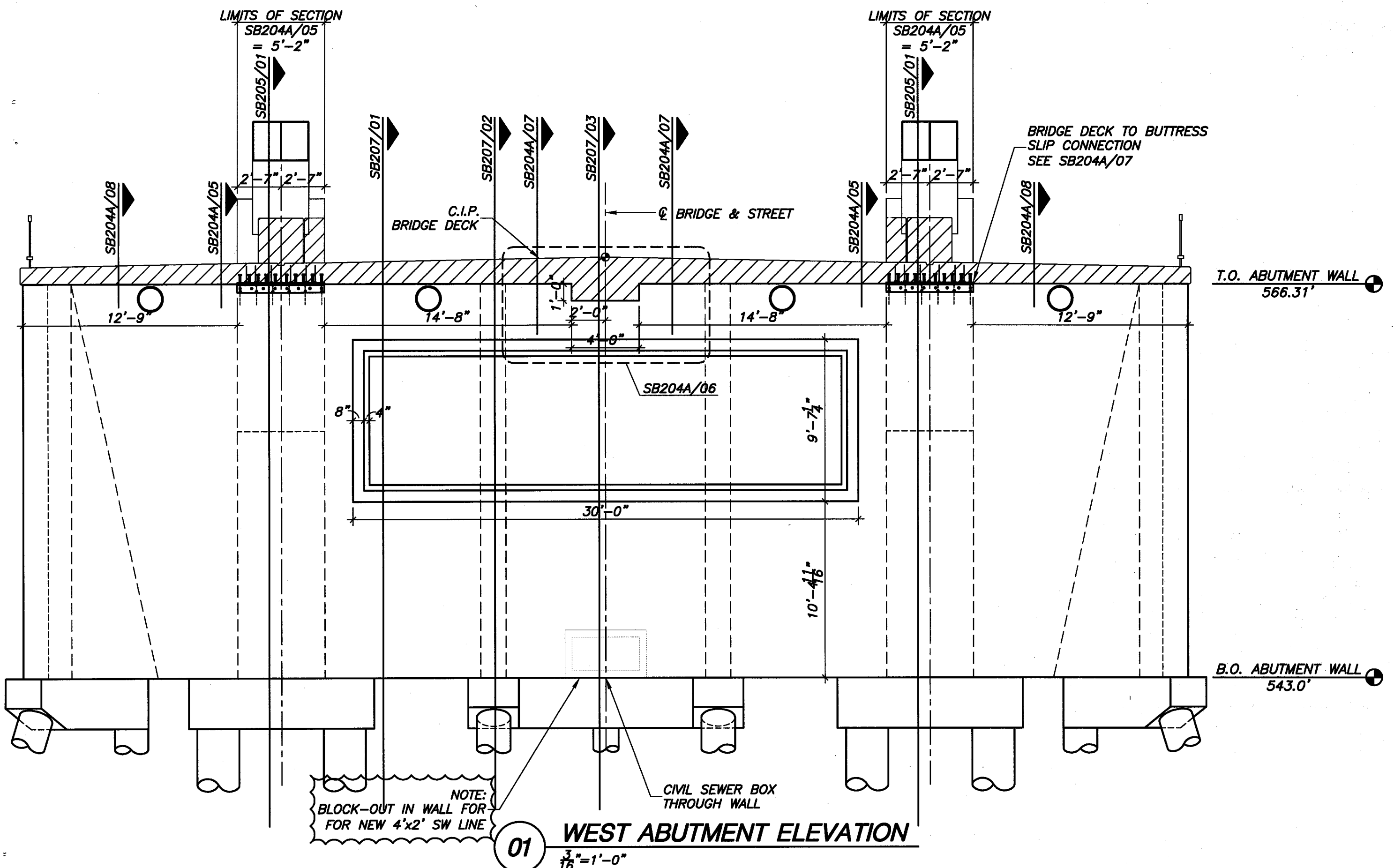
01 SECTION  
 1/8" = 1'-0"

PROPOSED GRADE EARTH WORK NOT IN THIS CONTRACT.

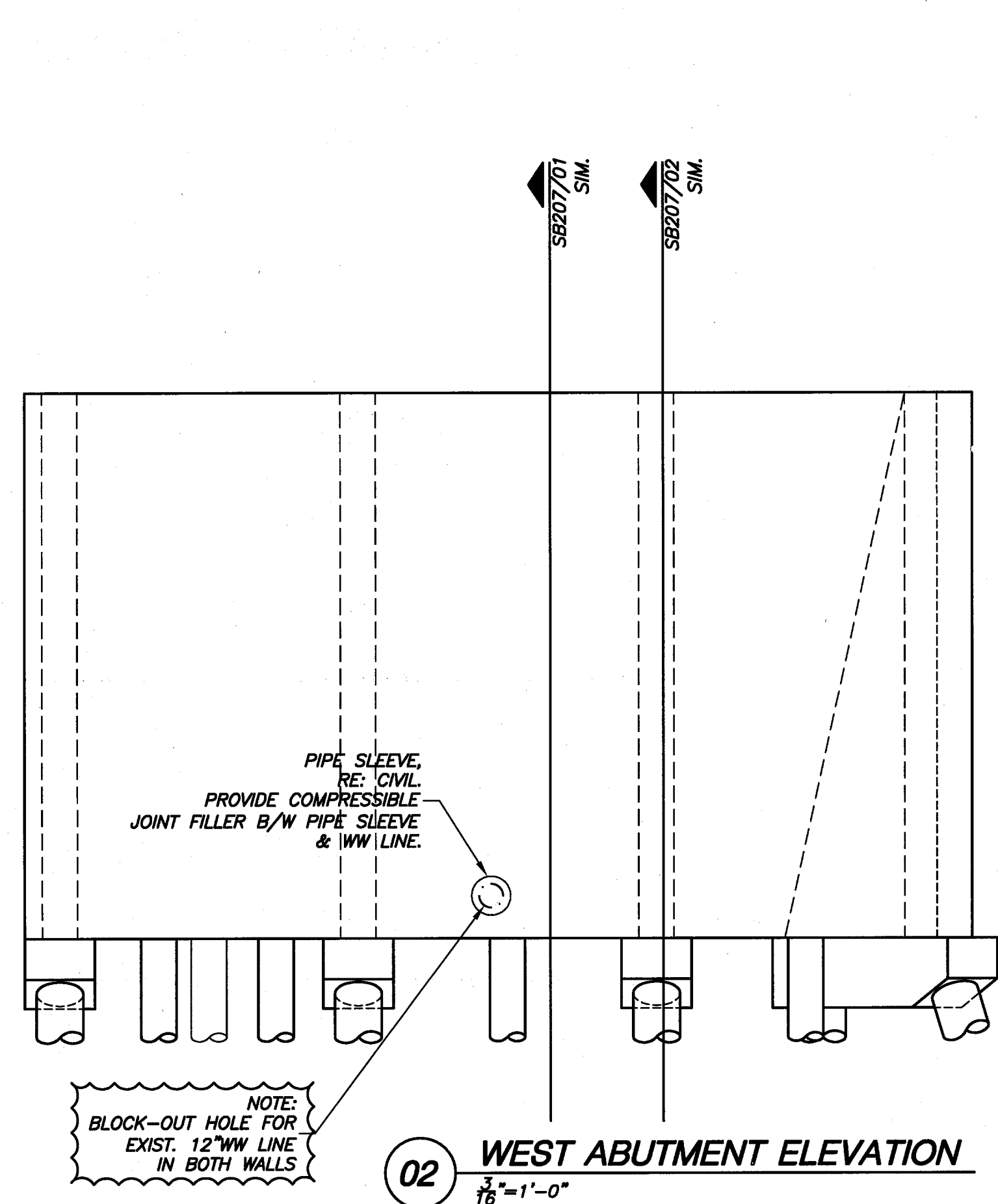


PRELIMINARY—FOR REVIEW ONLY		01/25/09	
NO.	REVISION	BY	DATE
TOWN OF ADDISON DALLAS COUNTY, TEXAS			
VITRUVIAN PARK BRIDGES PONTE AVE			
SECTION			
VIEWTECH, INC.		4205 Beltway Dr. - Addison, Texas 75001	
Structural Engineers		(972) 661-8187 Fax (972) 661-8172	
PROJECT	DESIGN	DRAWN	FILE
2007.144	VL	NERF	NOV. 25 2009
			SHEET
			SB203

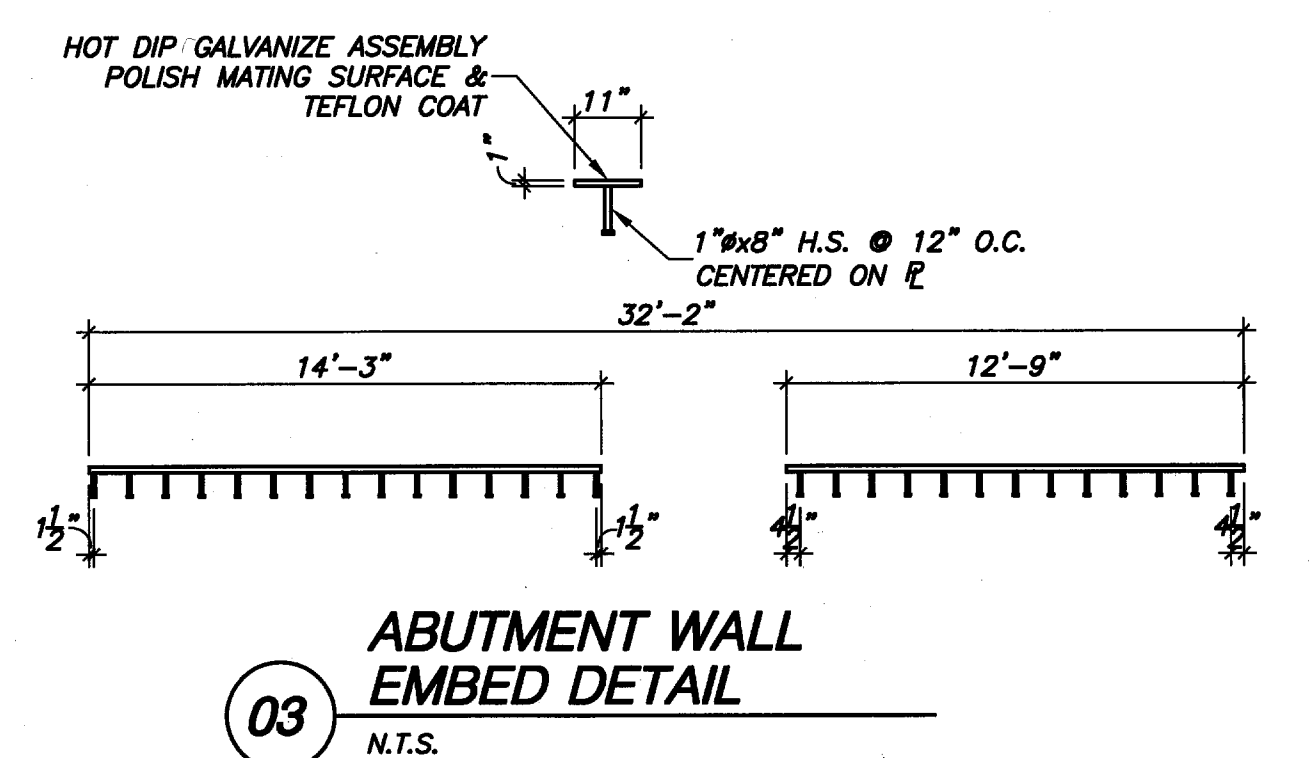
TEXAS FIRM REG. # F-2658



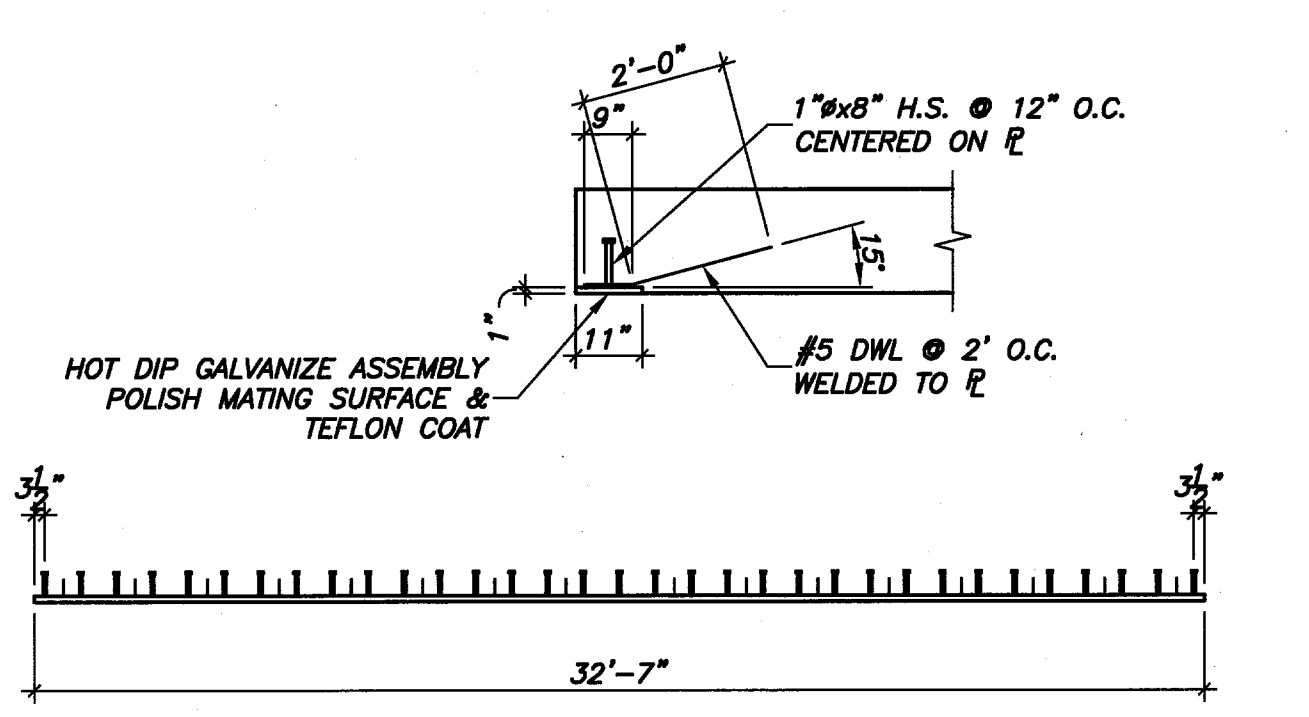
**01 WEST ABUTMENT ELEVATION**  
1/8" = 1'-0"



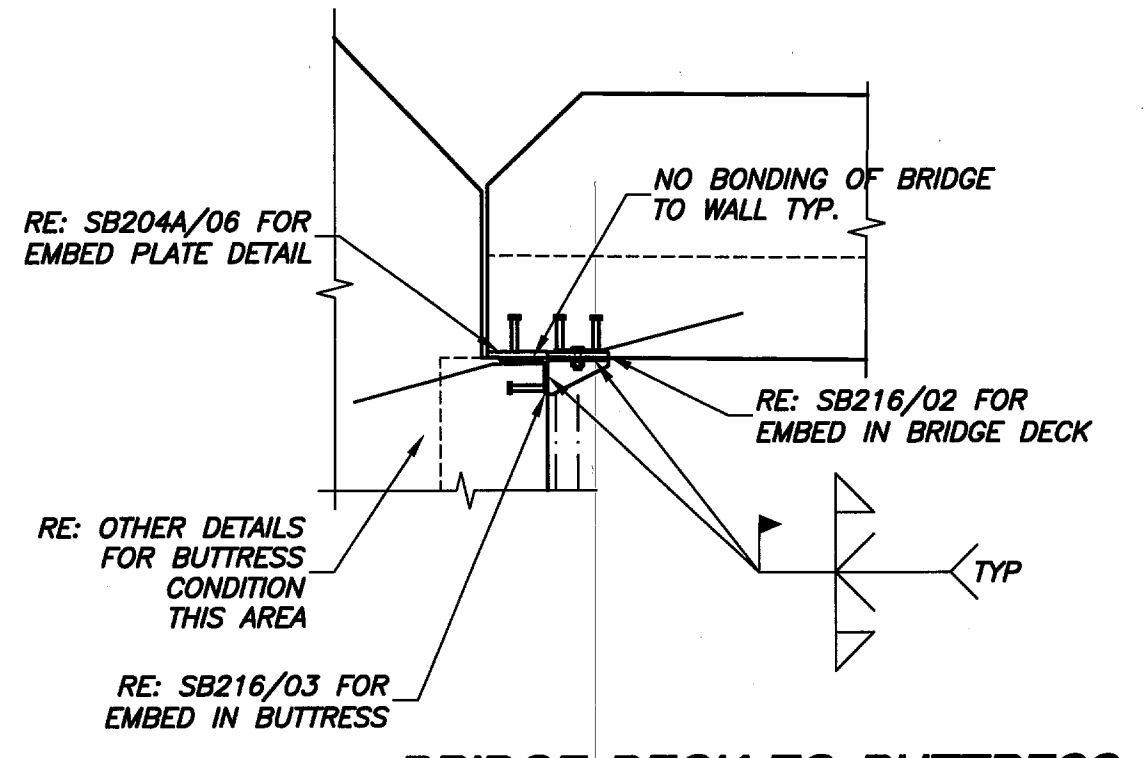
**02 WEST ABUTMENT ELEVATION**  
1/8" = 1'-0"



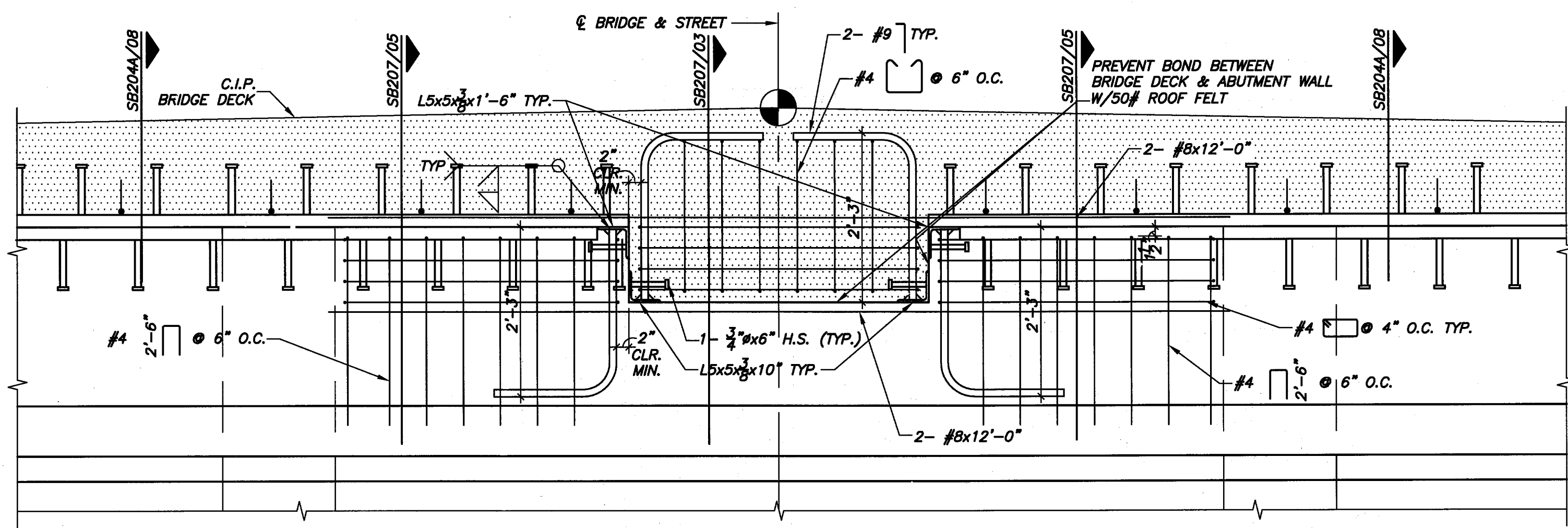
**03 ABUTMENT WALL EMBED DETAIL**  
N.T.S.



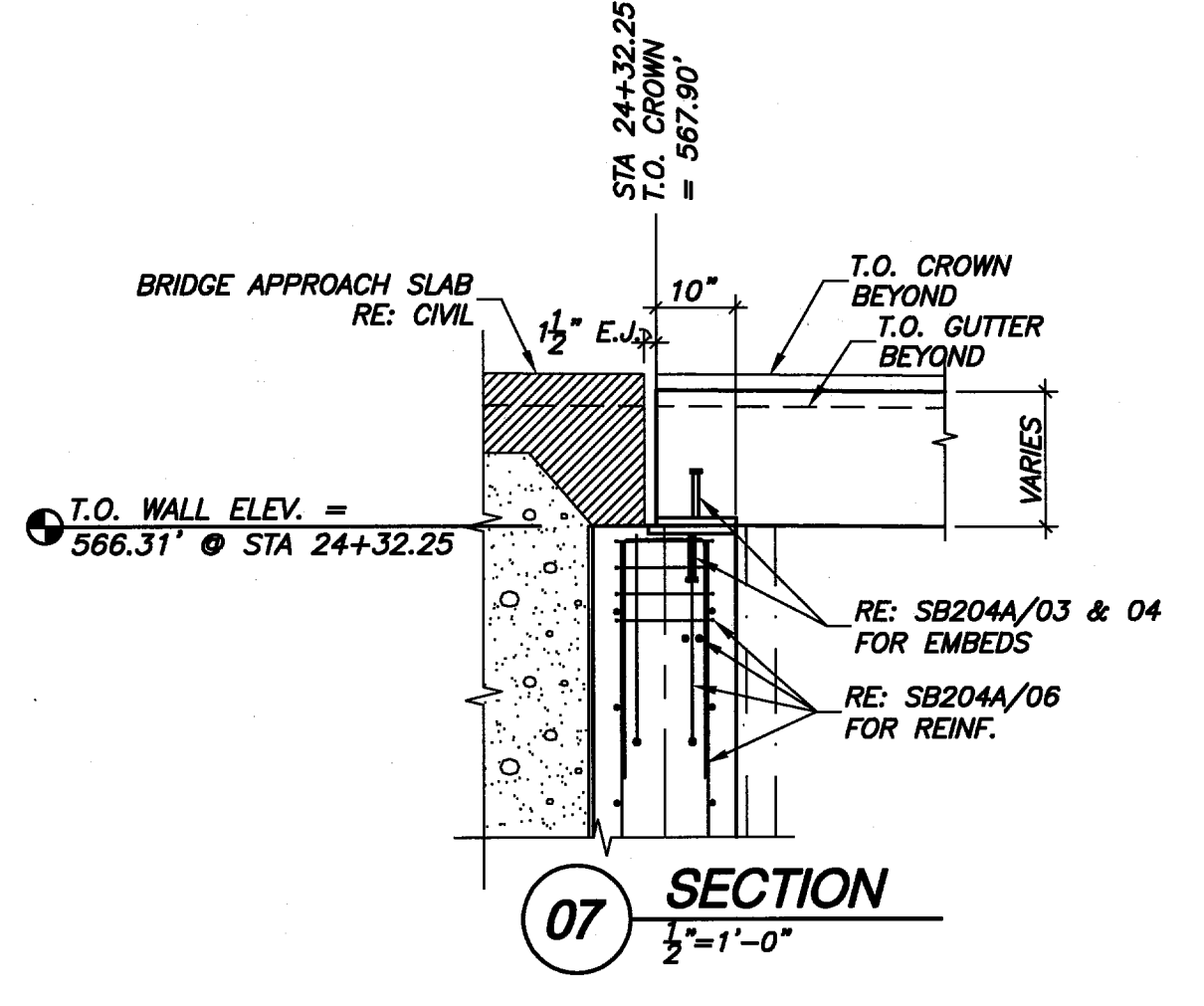
**04 BRIDGE DECK EMBED DETAIL**  
N.T.S.



**05 BRIDGE DECK TO BUTTRESS SLIP CONNECTION DETAIL**  
N.T.S.

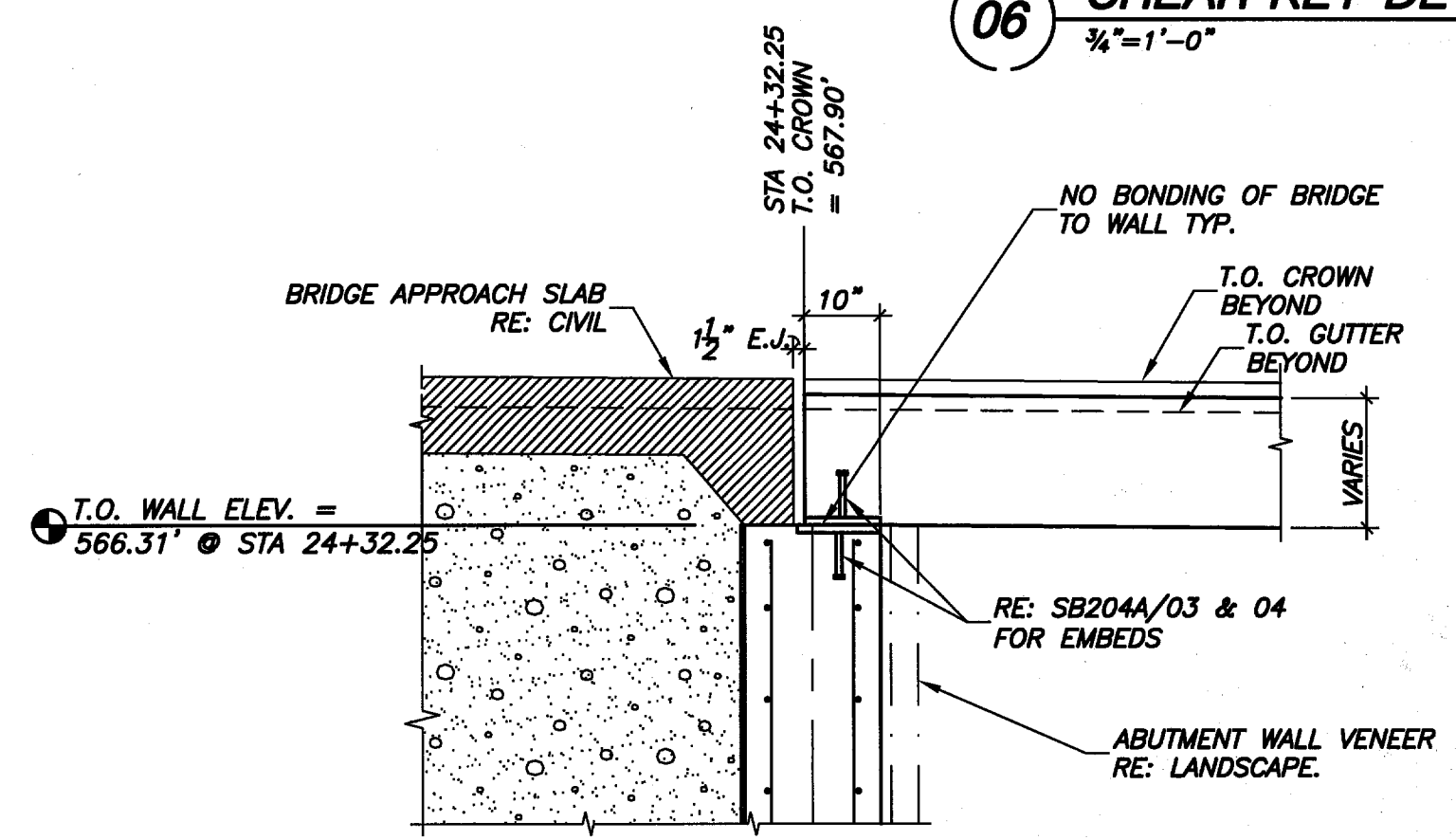


**06 SHEAR KEY DETAIL AT SLIP CONNECTION**  
3/4" = 1'-0"

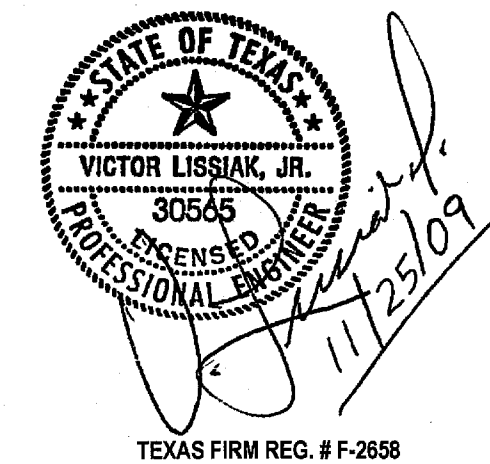


**07 SECTION**  
1/2" = 1'-0"

**INSTALLATION PROCEDURE FOR DETAILS SB204A/05:**  
INSTALL PLATE AFTER BRIDGE DECK SLAB PT CABLES HAVE BEEN STRESSED.  
THIS CONNECTION MUST BE INSTALLED PRIOR TO STRESSING BRIDGE HANGER RODS.

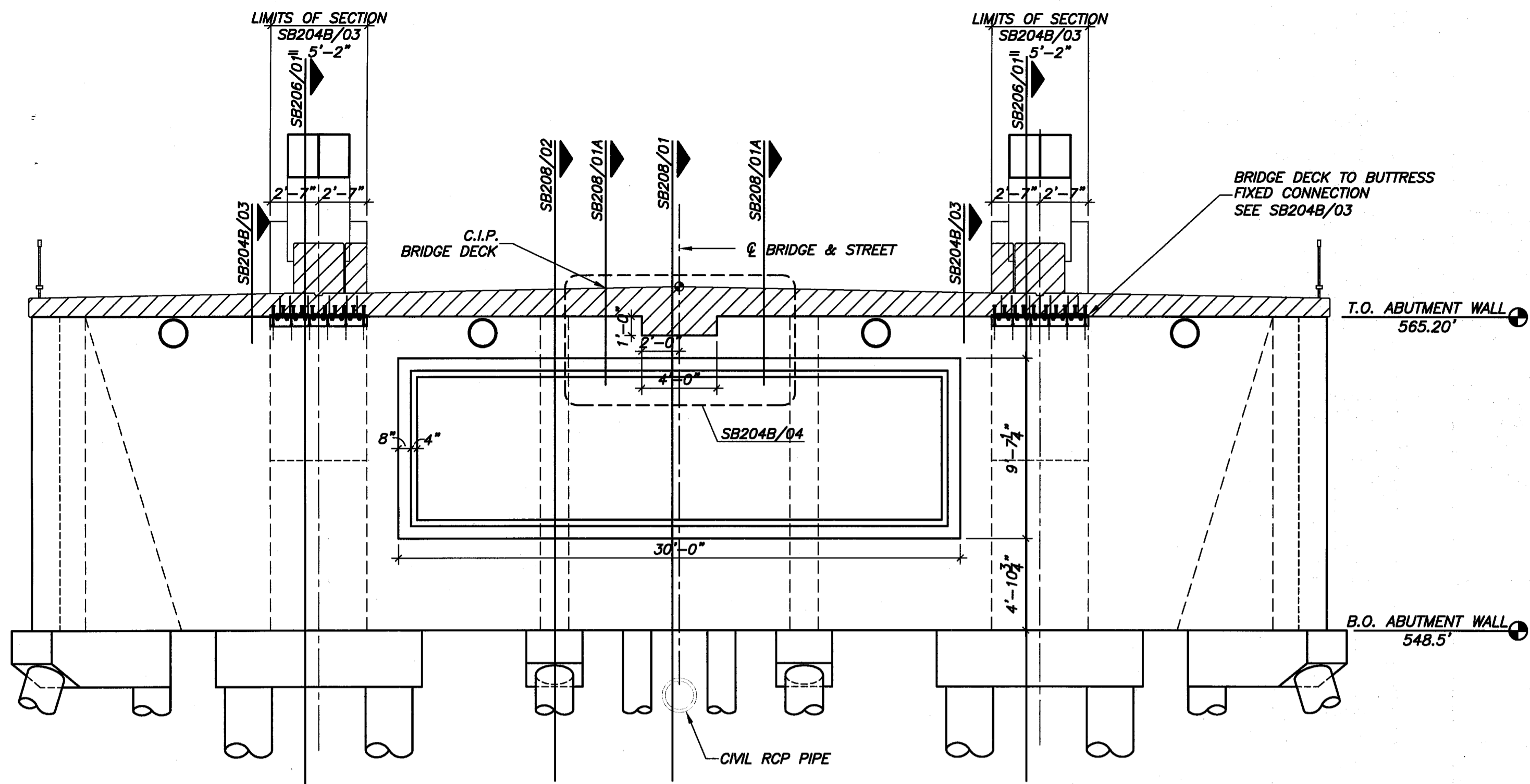


**08 SECTION**  
1/2" = 1'-0"

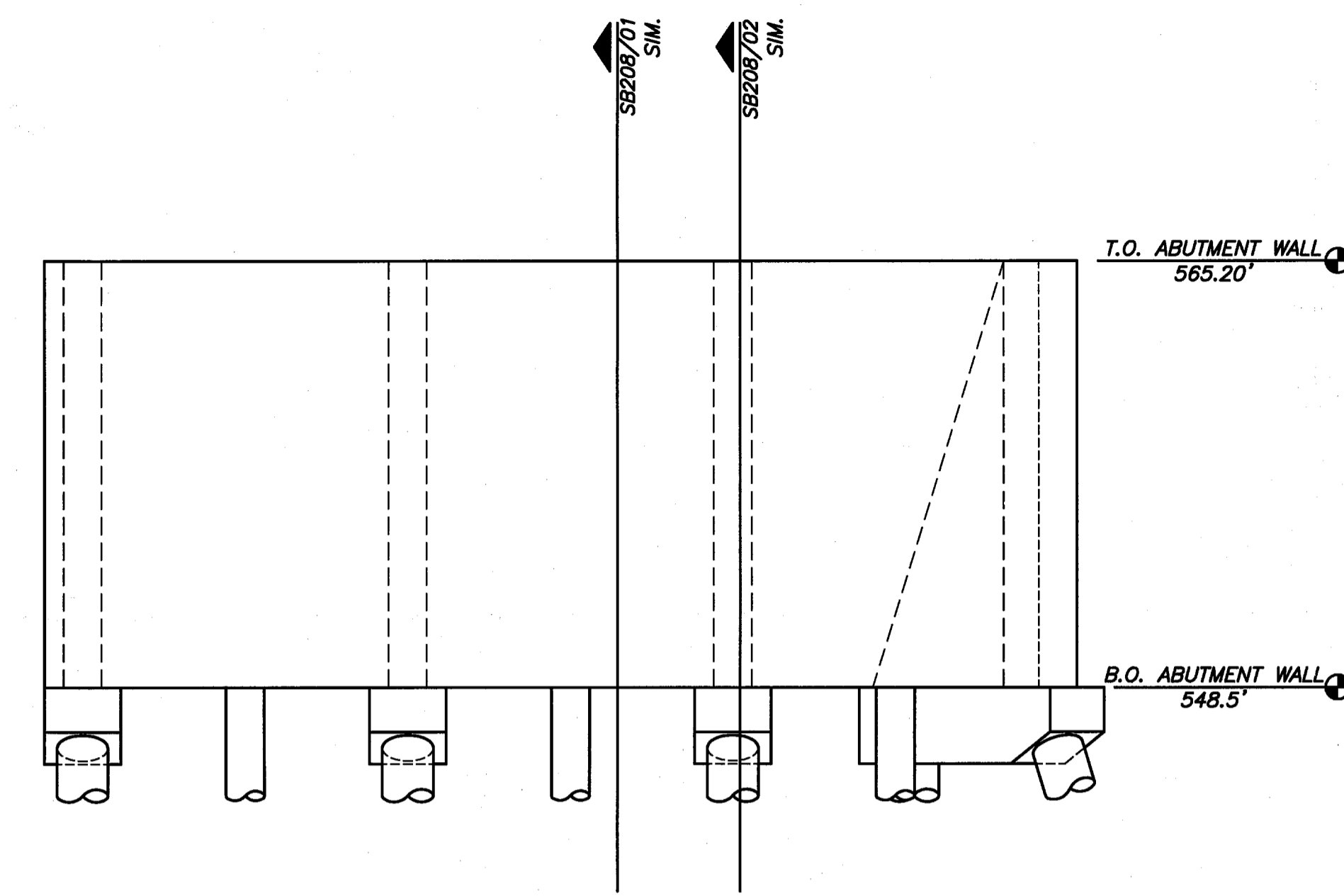


PRELIMINARY—FOR REVIEW ONLY		01/25/09
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<b>TOWN OF ADDISON</b> DALLAS COUNTY, TEXAS		
<b>VITRUVIAN PARK BRIDGES</b> PONTE AVE		
<b>ABUTMENT ELEVATIONS</b>		
<b>VIEWTECH, INC.</b> Structural Engineers		4205 Beltway Dr. - Addison, Texas 75001 (972) 661-8187 Fax (972) 661-8172
PROJECT	DESIGN	DATE
2007.144	VL	NOV. 25 2009
DRAWN	FILE	SHEET
NERF	-	SB204 A

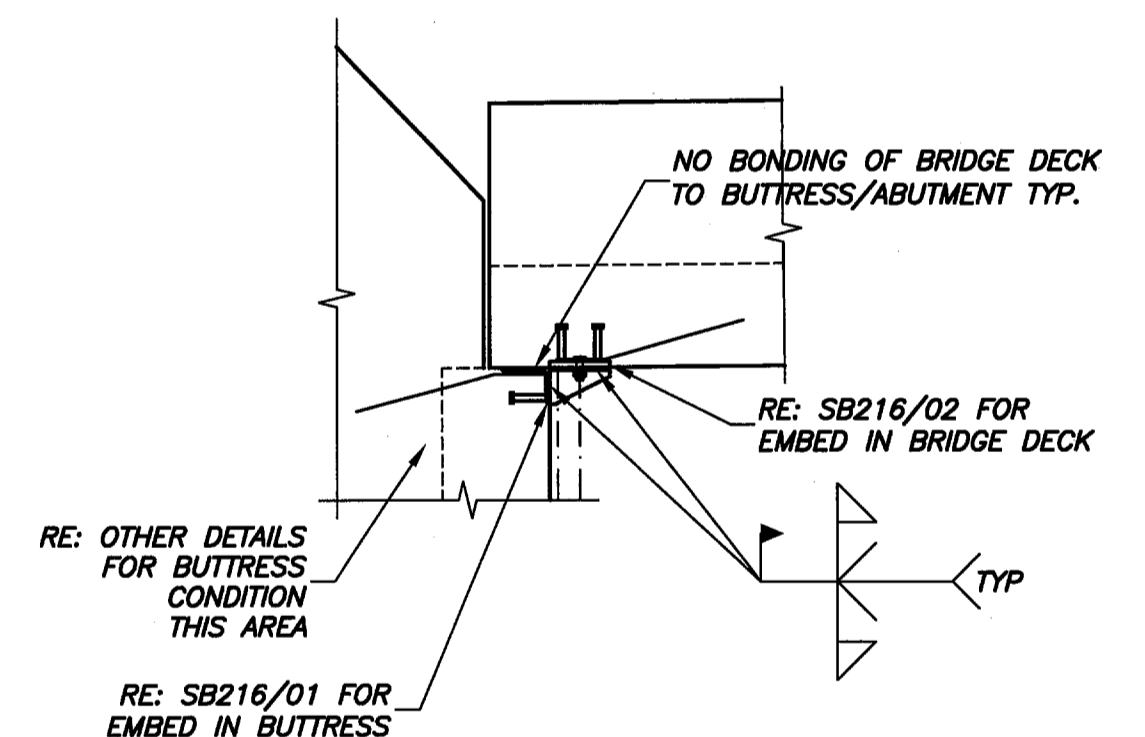




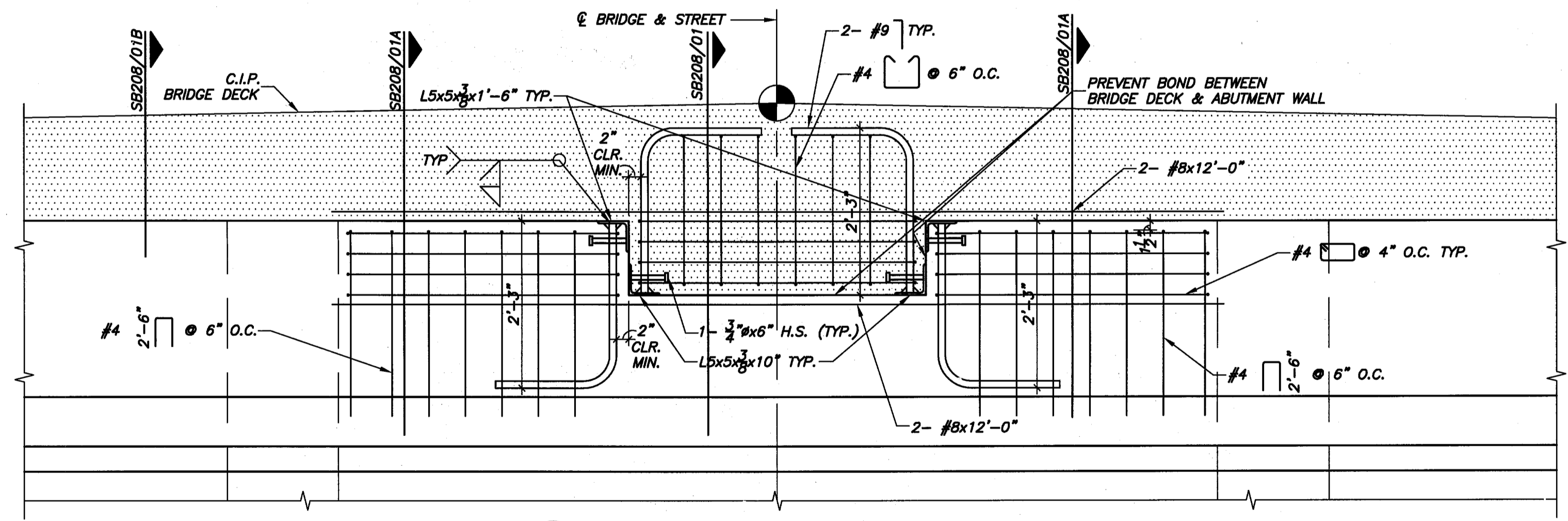
**01 EAST ABUTMENT ELEVATION**  
 1/8" = 1'-0"



**02 EAST ABUTMENT ELEVATION**  
 1/8" = 1'-0"

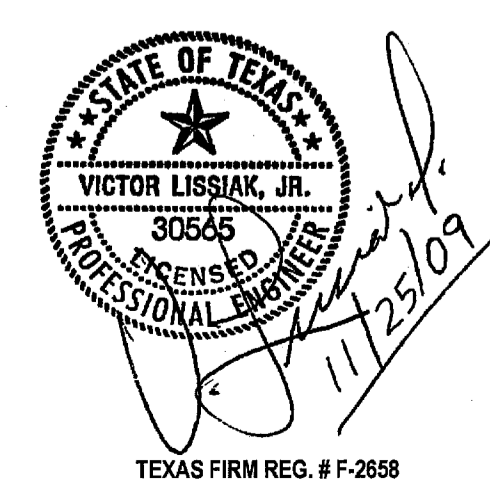


**03 BRIDGE DECK TO BUTRESS FIXED CONNECTION DETAIL**  
 N.T.S.

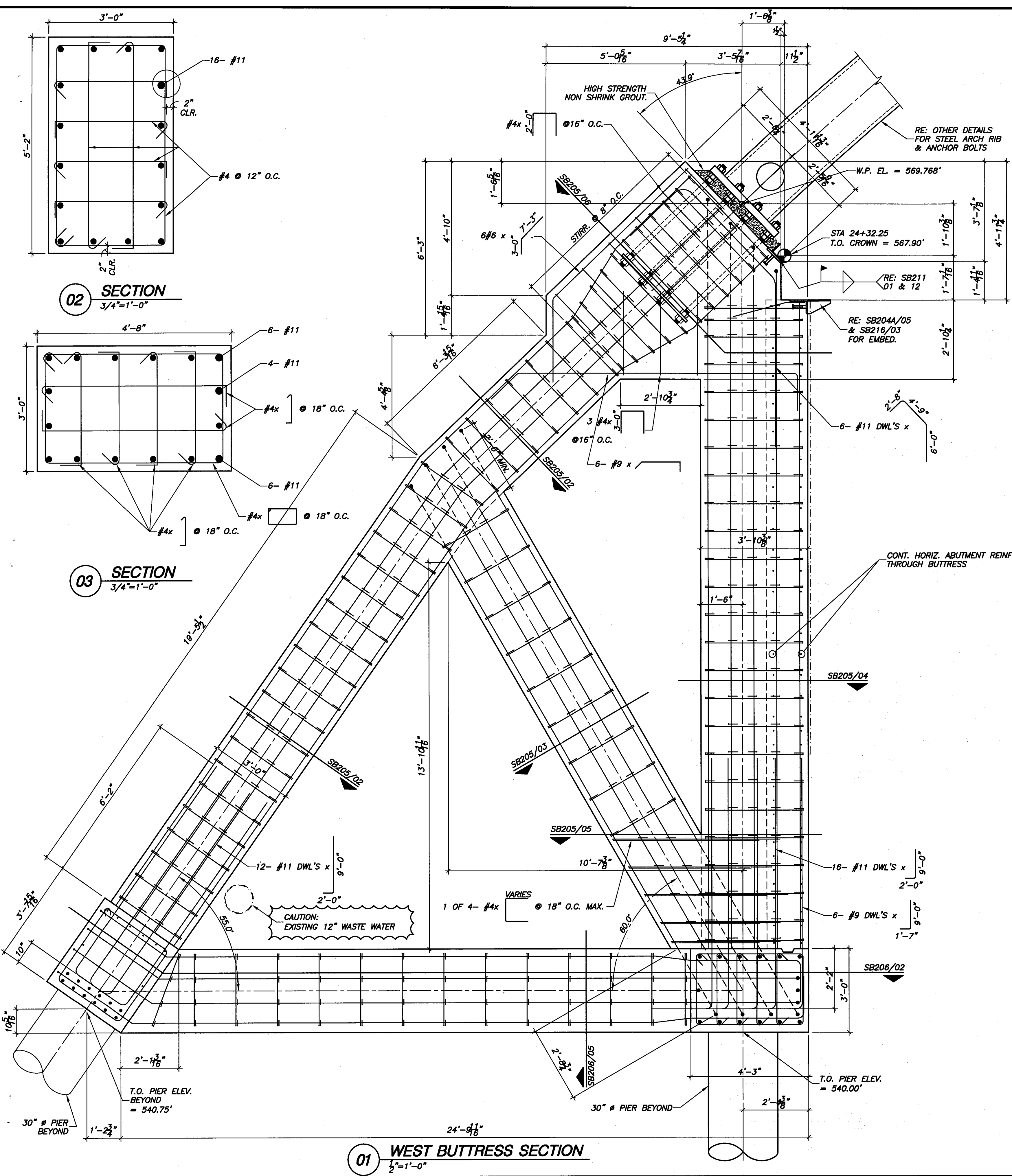


**04 SHEAR KEY DETAIL AT FIXED CONNECTION**  
 1/4" = 1'-0"

**INSTALLATION PROCEDURE FOR DETAILS SB204B/03:**  
 INSTALL PLATE AFTER BRIDGE DECK SLAB PT CABLES HAVE BEEN STRESSED.  
 THIS CONNECTION MUST BE INSTALLED PRIOR TO STRESSING BRIDGE HANGER RODS.



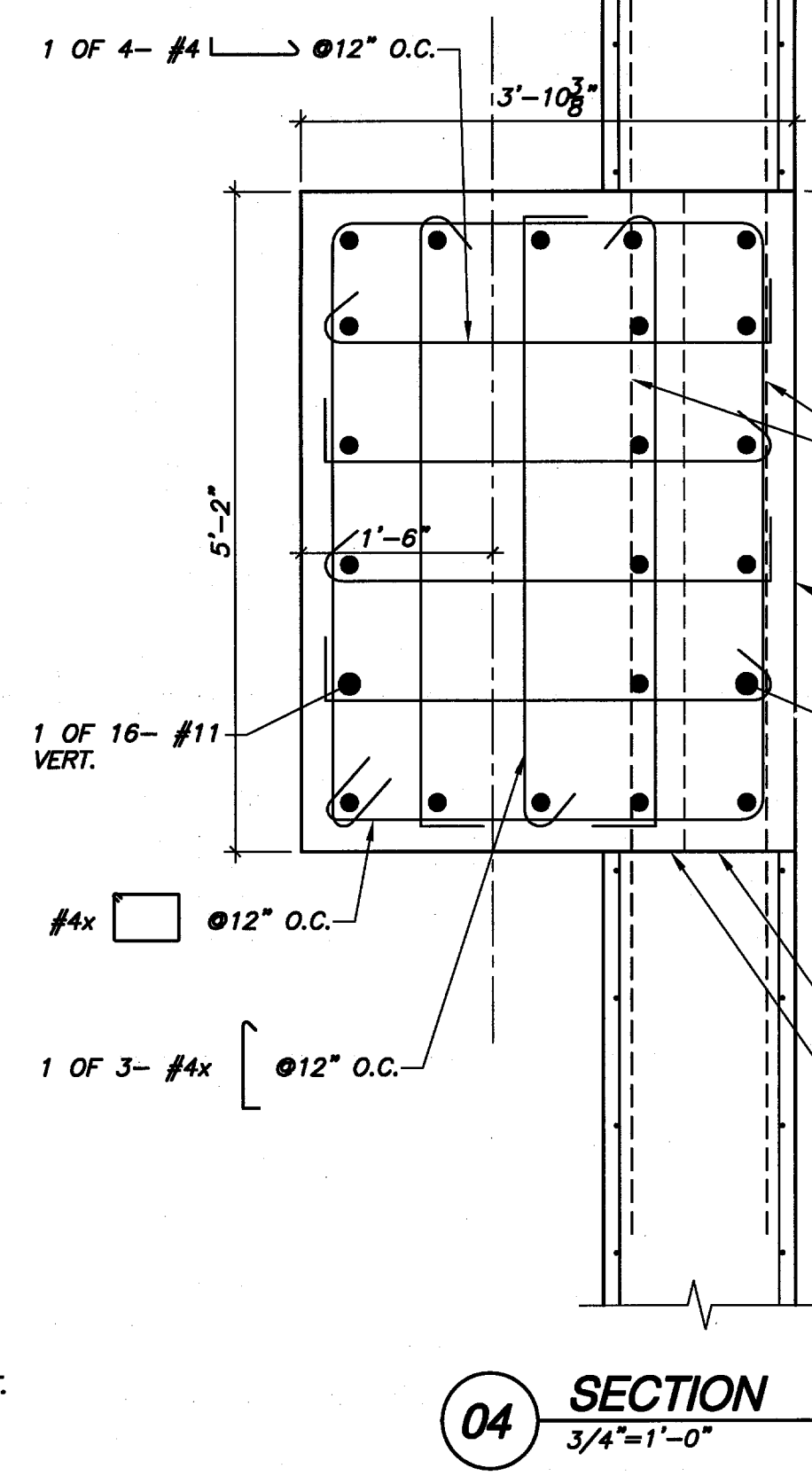
PRELIMINARY—FOR REVIEW ONLY		01/25/09	
NO.	REVISION	BY	DATE
<b>TOWN OF ADDISON</b> DALLAS COUNTY, TEXAS			
VITRUVIAN PARK BRIDGES PONTE AVE			
ABUTMENT ELEVATIONS			
<b>VIEWTECH, INC.</b> Structural Engineers		4205 Beltway Dr. - Addison, Texas 75001 (972) 661-8187 Fax (972) 661-8172	
PROJECT	DESIGN	DRAWN	DATE
2007.144	VL	NERF	NOV. 25 2009
FILE			SHEET
-			SB204 B



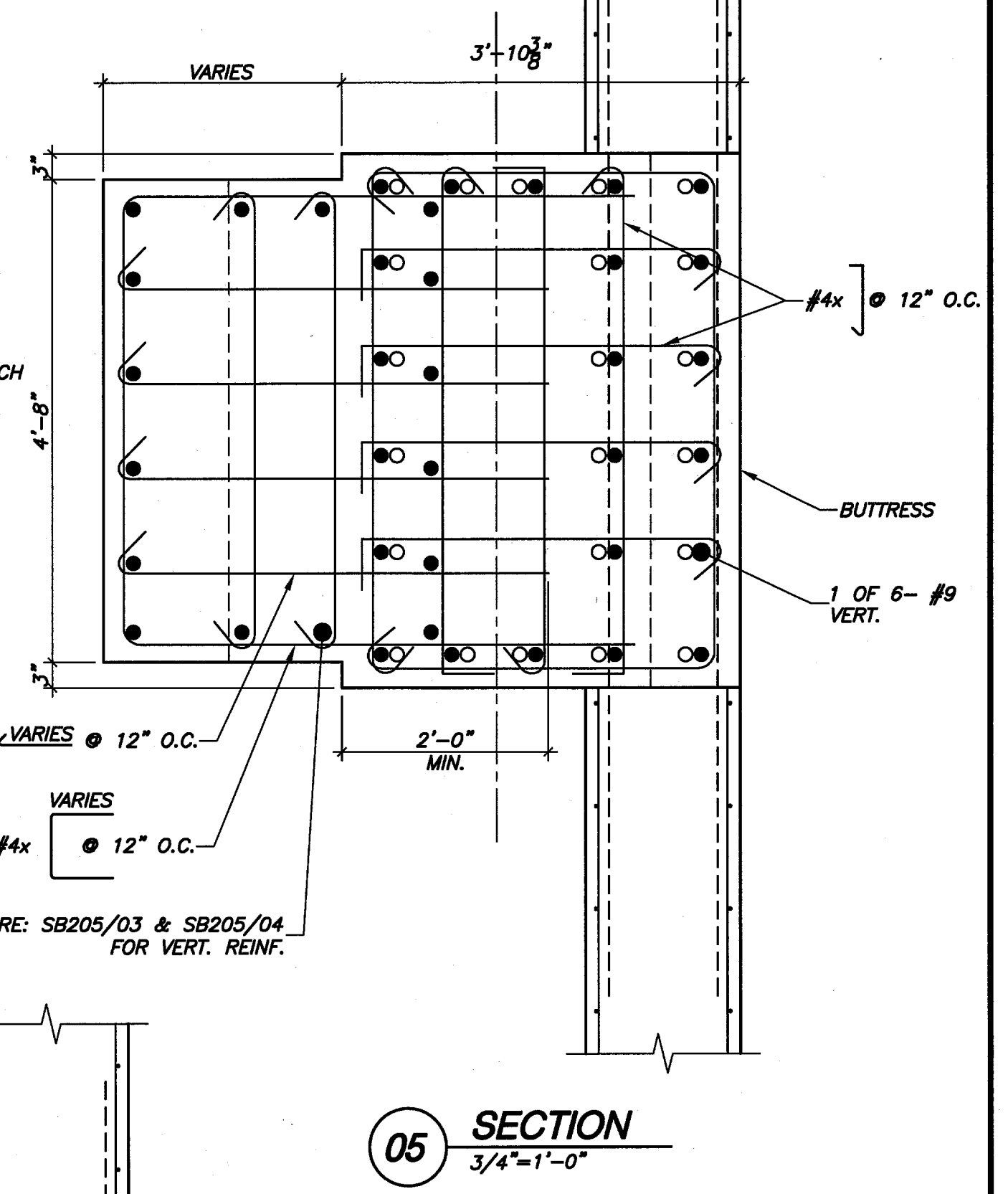
**02 SECTION**  
3/4"=1'-0"

**03 SECTION**  
3/4"=1'-0"

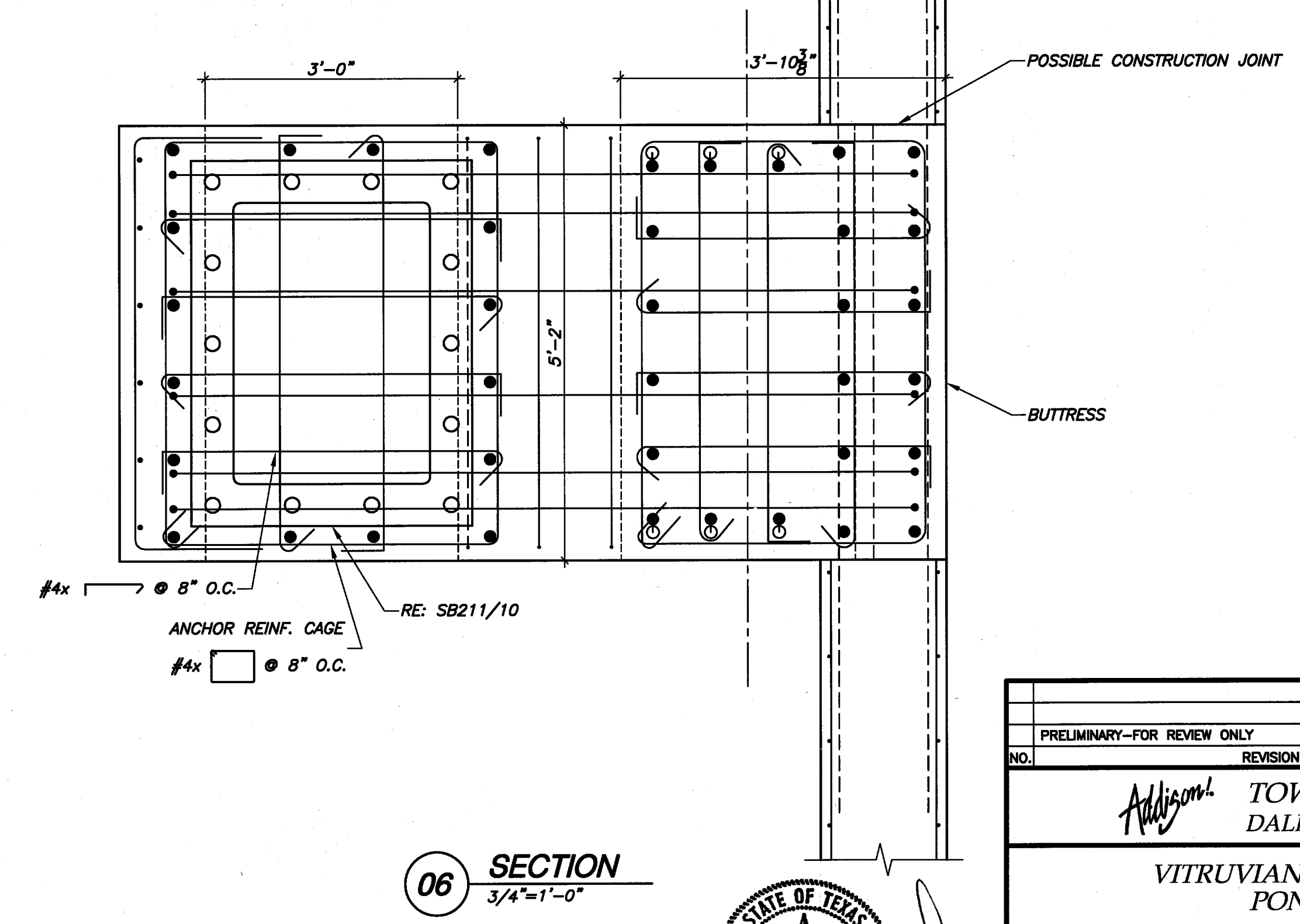
**01 WEST BUTTRESS SECTION**  
1/2"=1'-0"



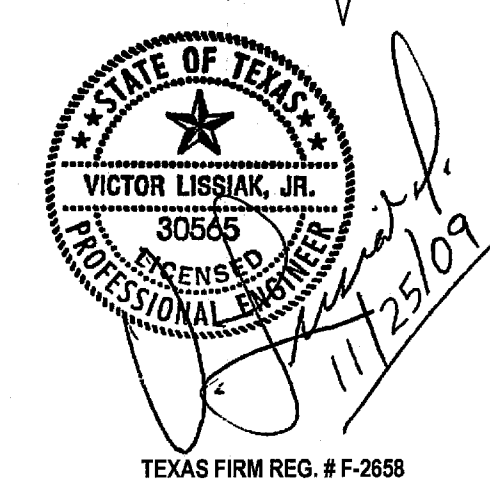
**04 SECTION**  
3/4"=1'-0"



**05 SECTION**  
3/4"=1'-0"

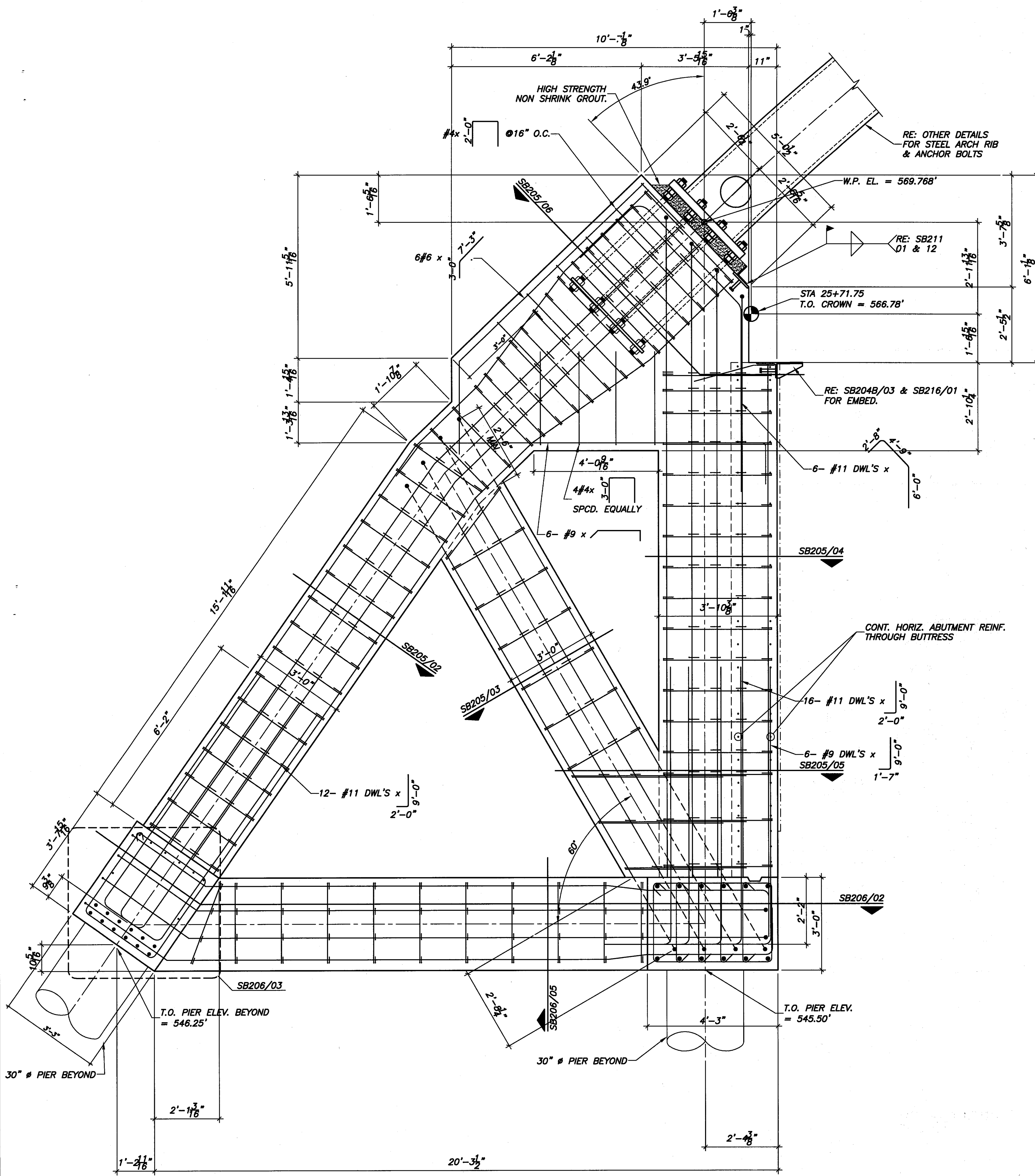


**06 SECTION**  
3/4"=1'-0"

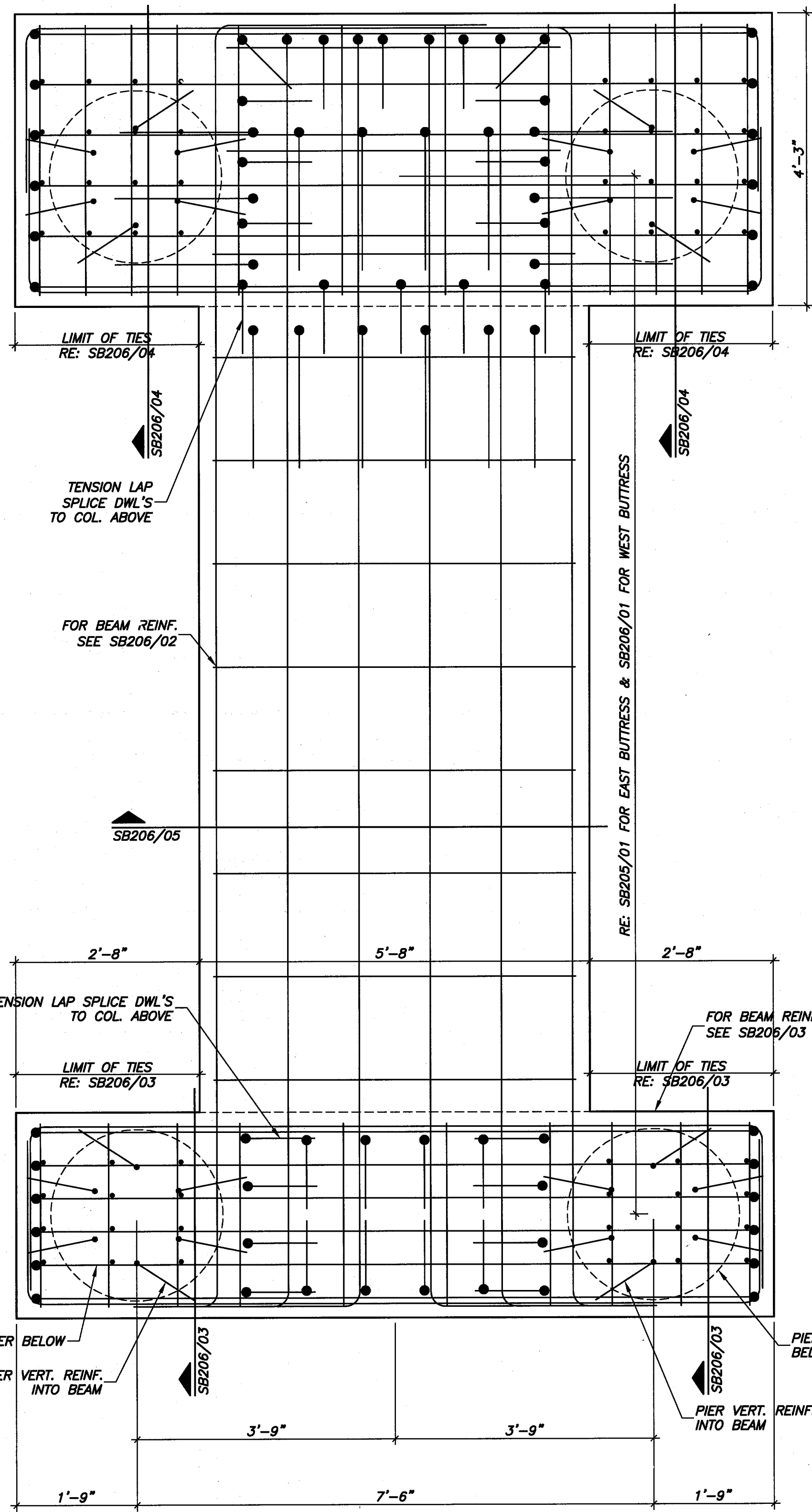


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TOWN OF ADDISON DALLAS COUNTY, TEXAS			
VITRUVIAN PARK BRIDGES PONTE AVE			
<b>BUTTRESS SECTIONS &amp; DETAILS</b>			
<b>VIEWTECH, INC.</b> Structural Engineers		4205 Beltway Dr. - Addison, Texas 75001 (972) 661-8187 Fax (972) 661-8172	
PROJECT	DESIGN	DRAWN	DATE
2007.144	VL	NERF	NOV. 25 2009
FILE			SHEET
			SB205

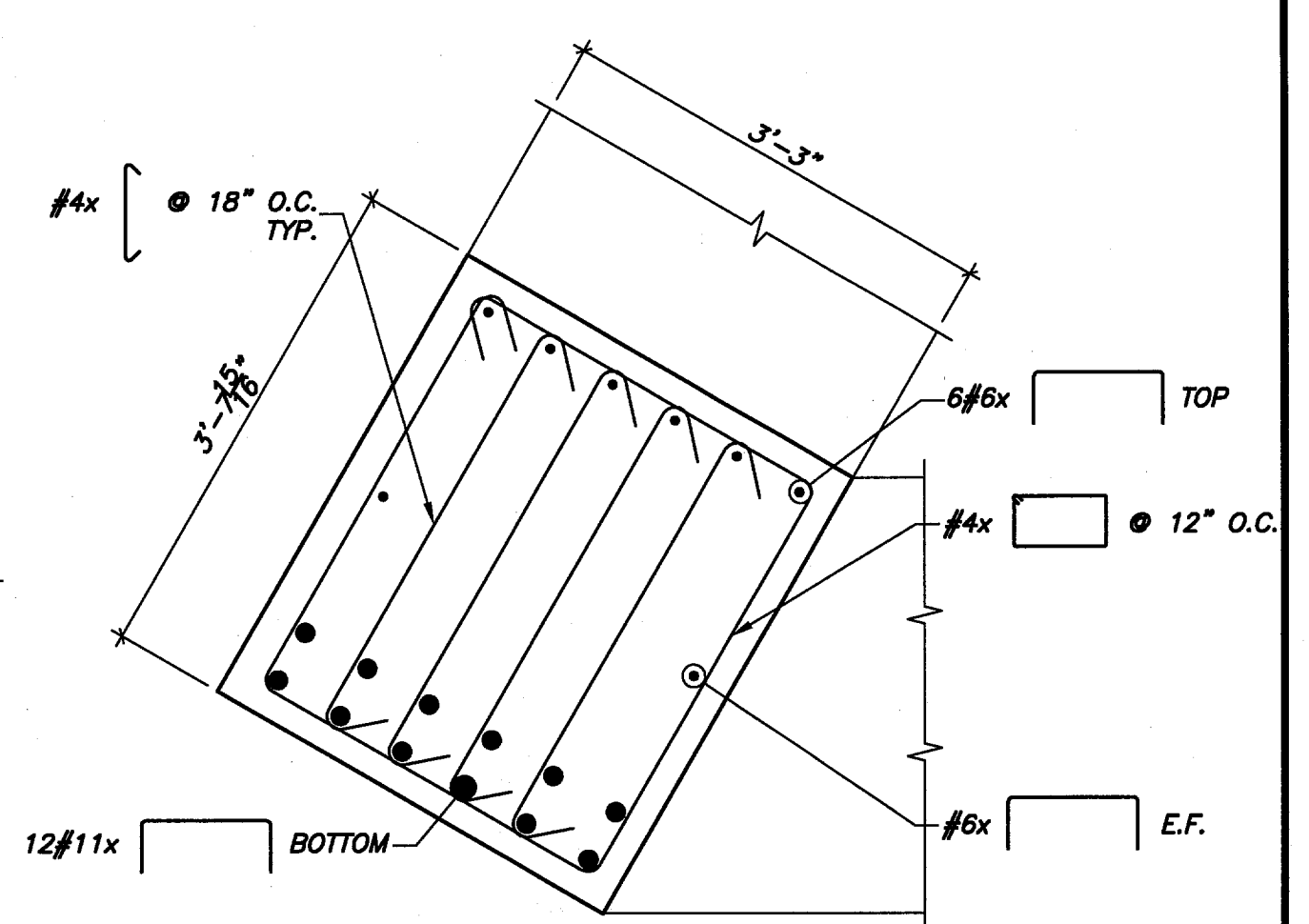
TEXAS FIRM REG. # F-2658



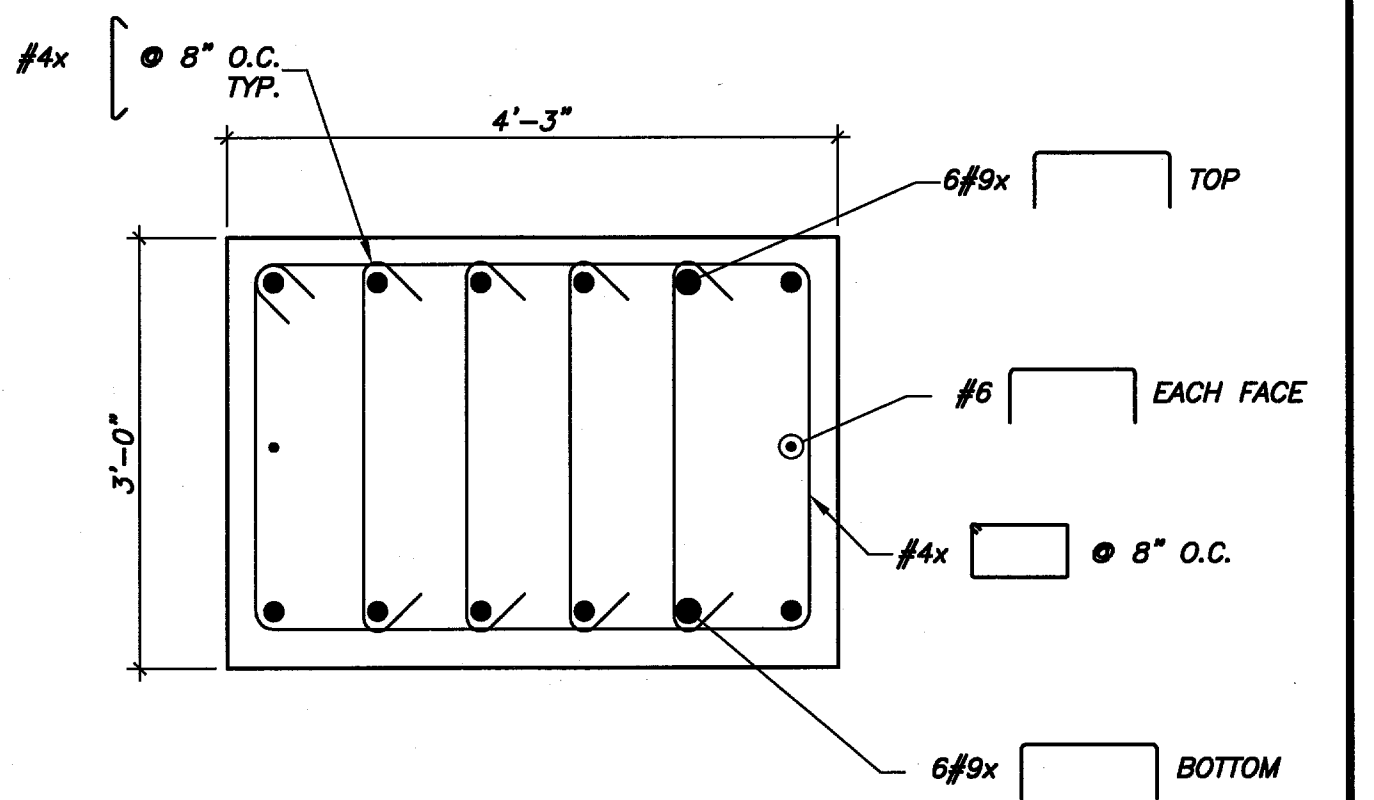
**01 EAST BUTTRESS SECTION**  
3/4"=1'-0"



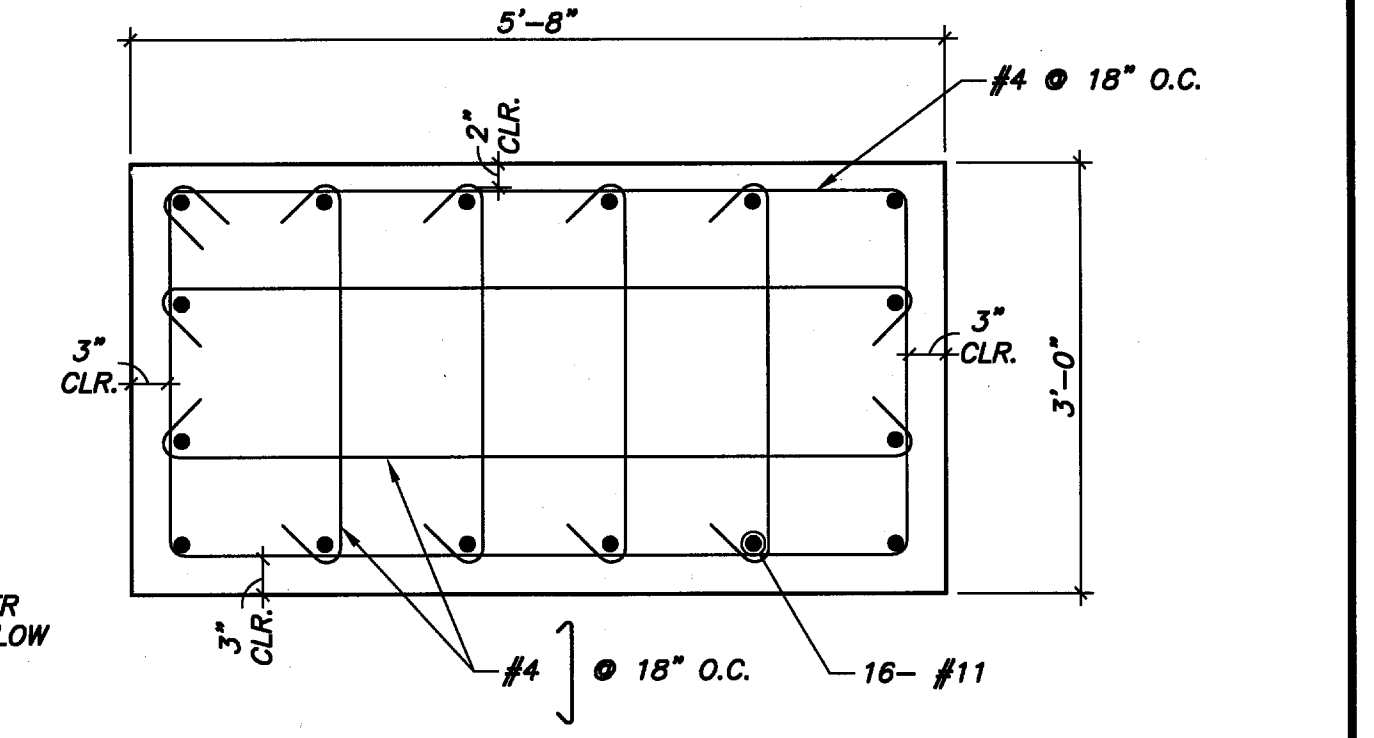
**02 SECTION**  
3/4"=1'-0"



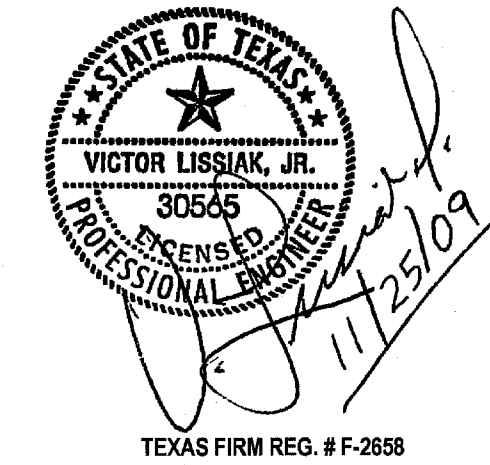
**03 DETAIL**  
3/4"=1'-0"



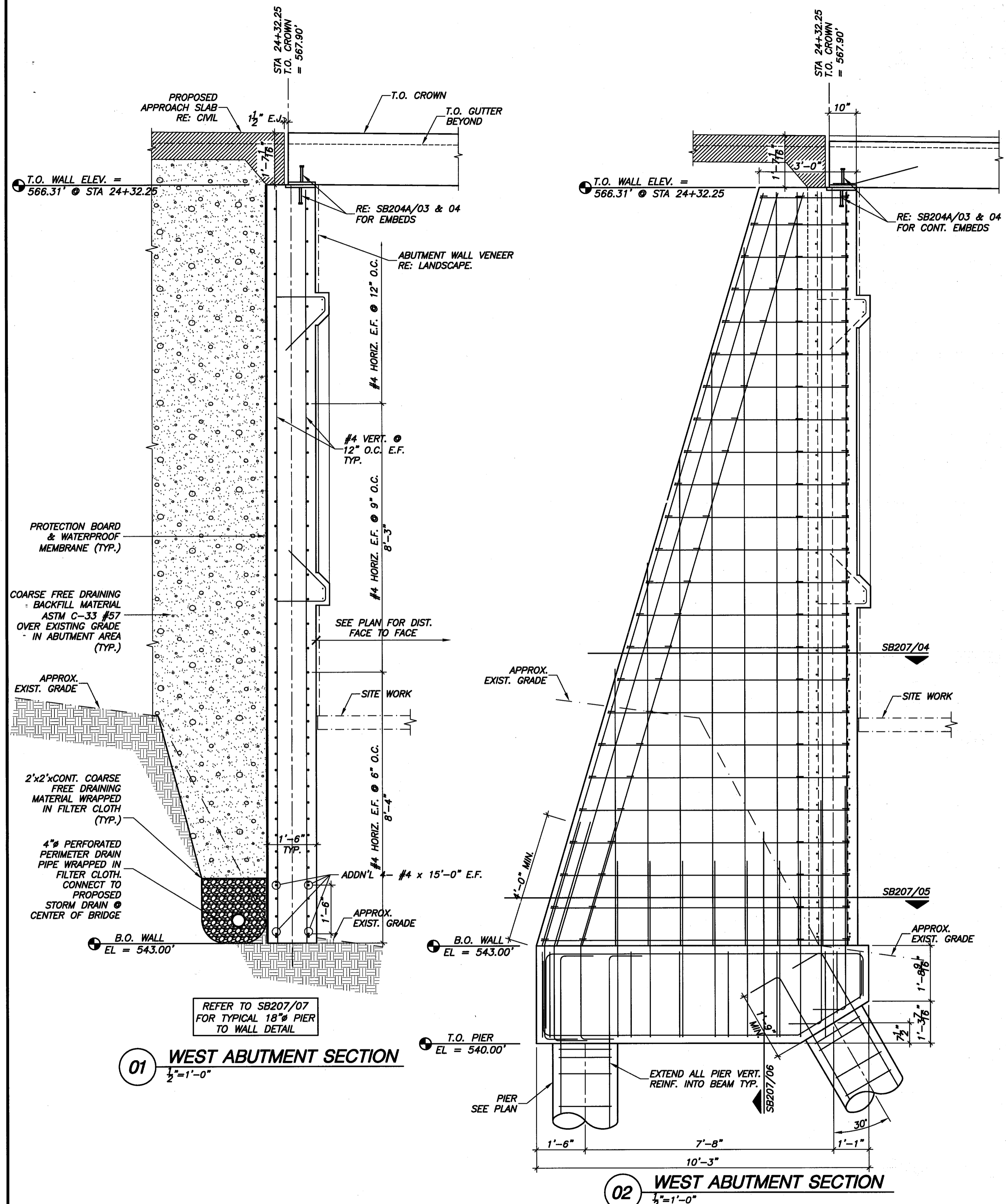
**04 SECTION**  
3/4"=1'-0"



**05 SECTION**  
3/4"=1'-0"

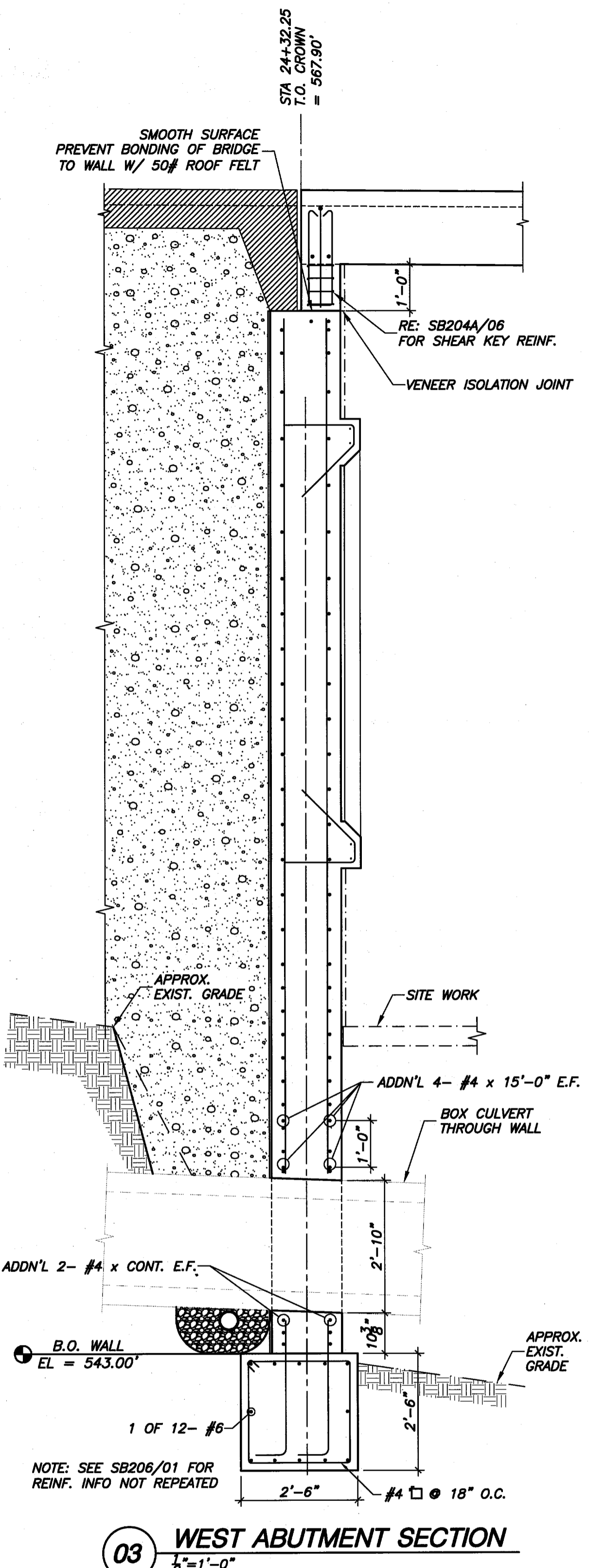


PRELIMINARY—FOR REVIEW ONLY				01/25/09
NO.	REVISION	BY	DATE	
<b>ADDISON</b> TOWN OF ADDISON DALLAS COUNTY, TEXAS VITRUVIAN PARK BRIDGES PONTE AVE <b>BUTTRESS SECTIONS &amp; DETAILS</b>				
<b>VIEWTECH, INC.</b> Structural Engineers		4205 Beltway Dr. - Addison, Texas 75001 (972) 661-8187 Fax (972) 661-8172		
PROJECT	DESIGN	DRAWN	DATE	SHEET
2007.144	VL	NERF	NOV. 25 2009	SB206

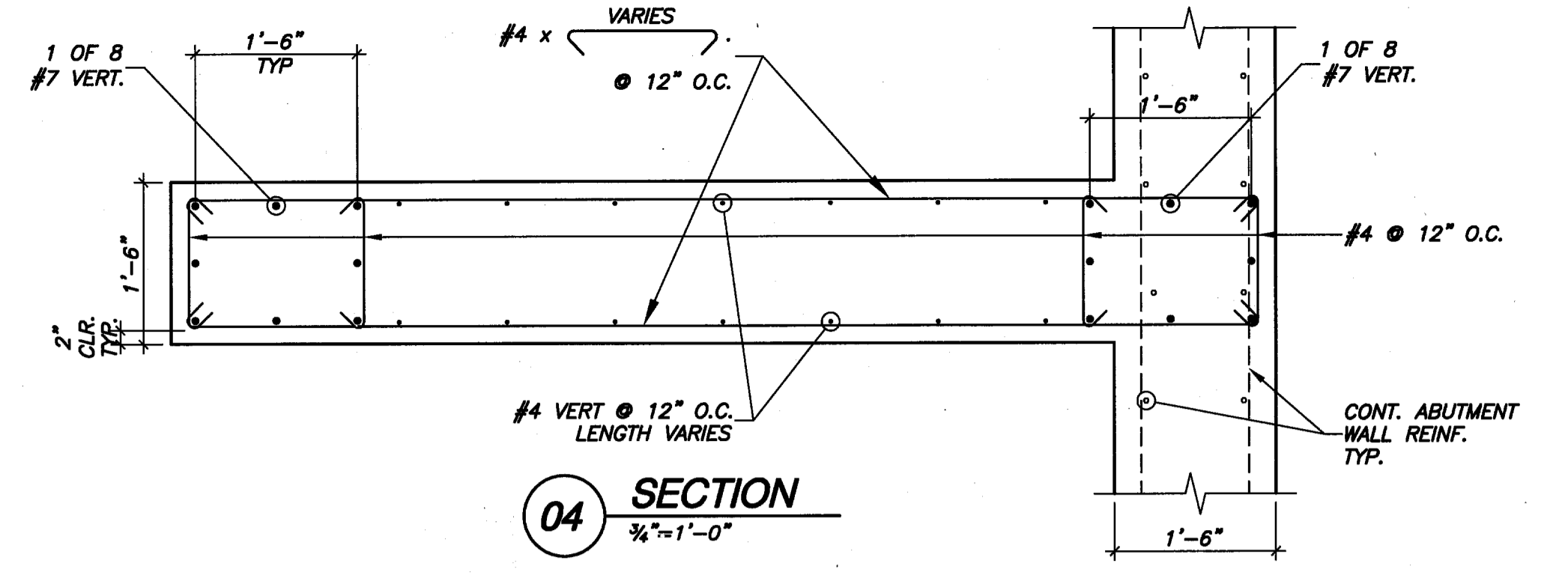


**01 WEST ABUTMENT SECTION**  
1/2" = 1'-0"

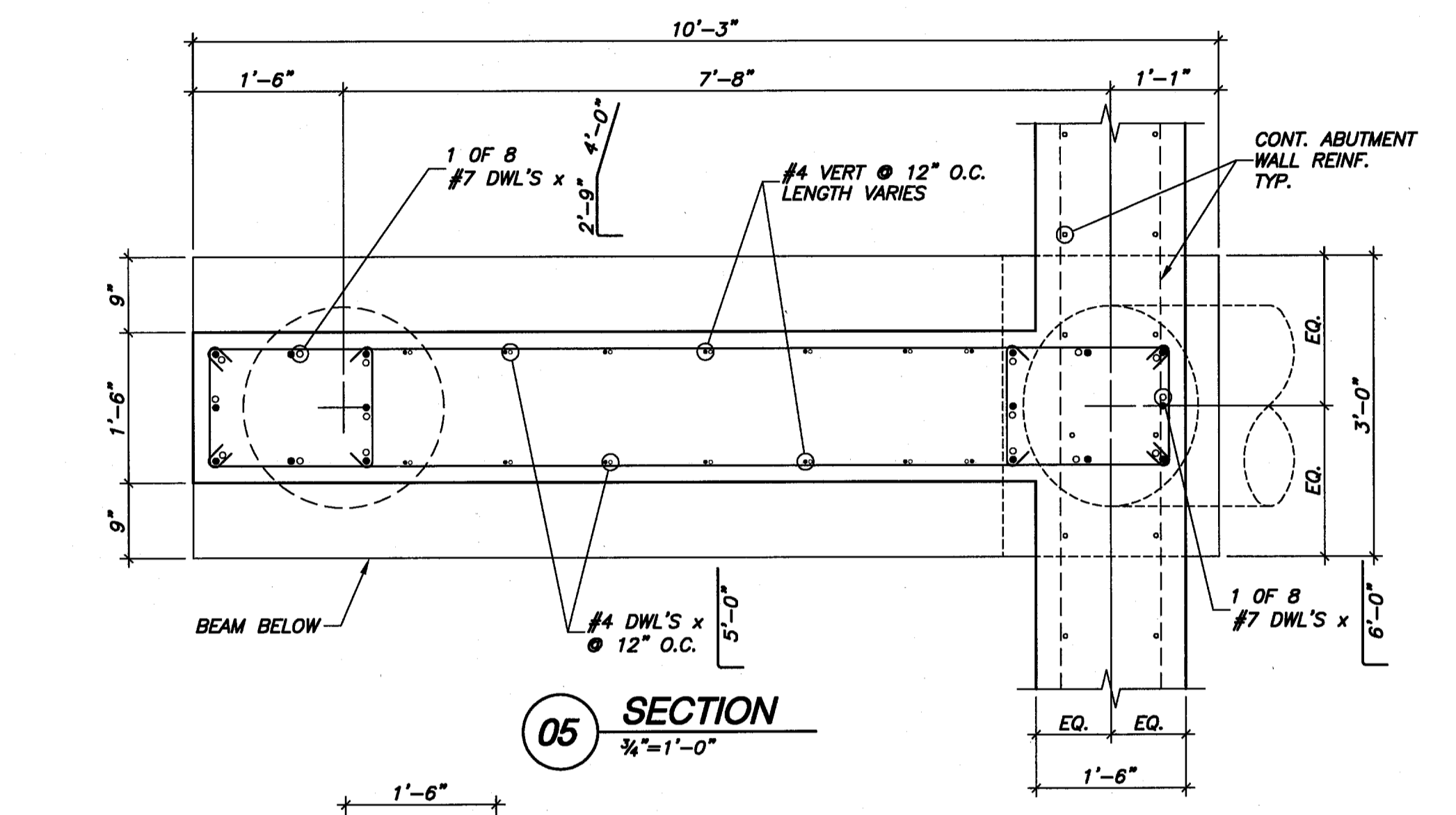
**02 WEST ABUTMENT SECTION**  
1/2" = 1'-0"



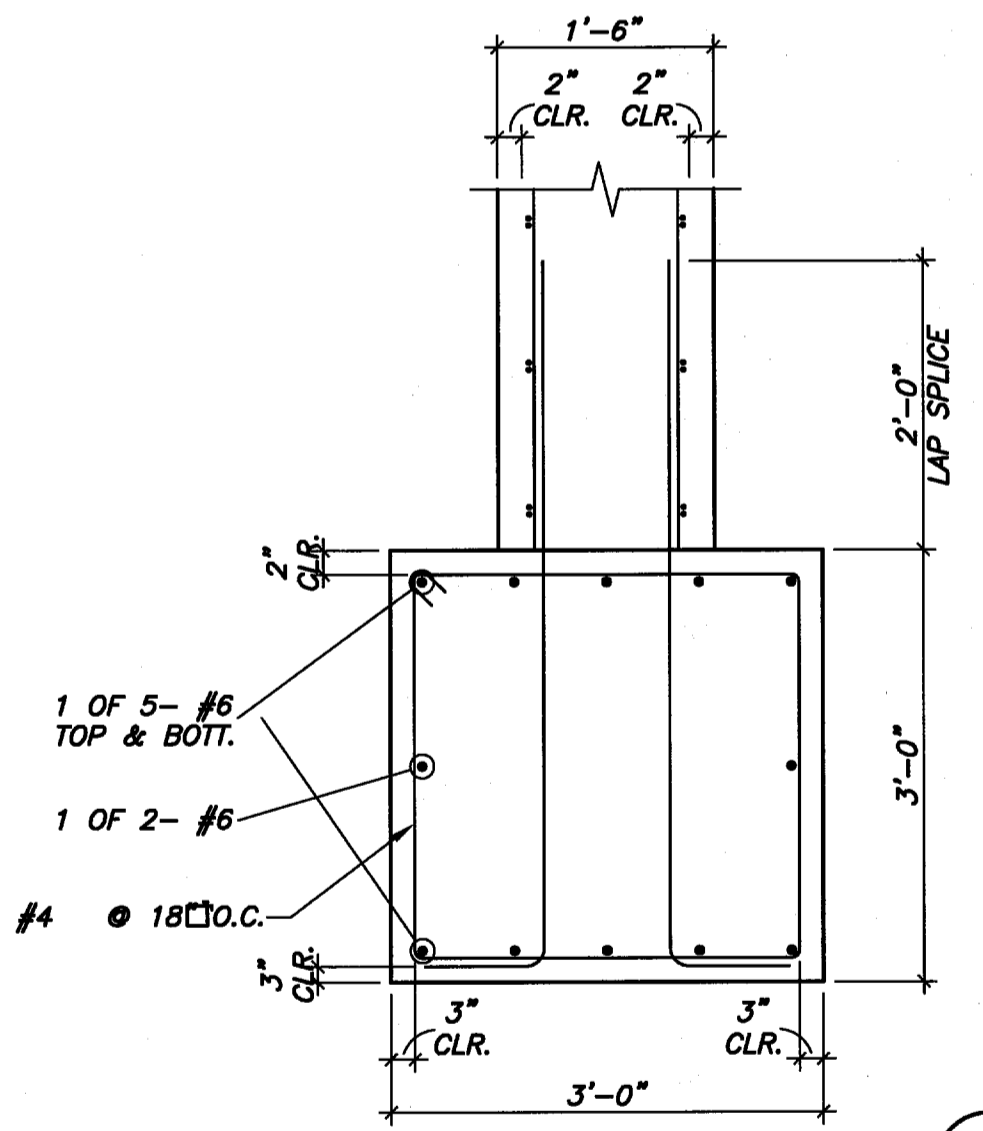
**03 WEST ABUTMENT SECTION**  
1/2" = 1'-0"



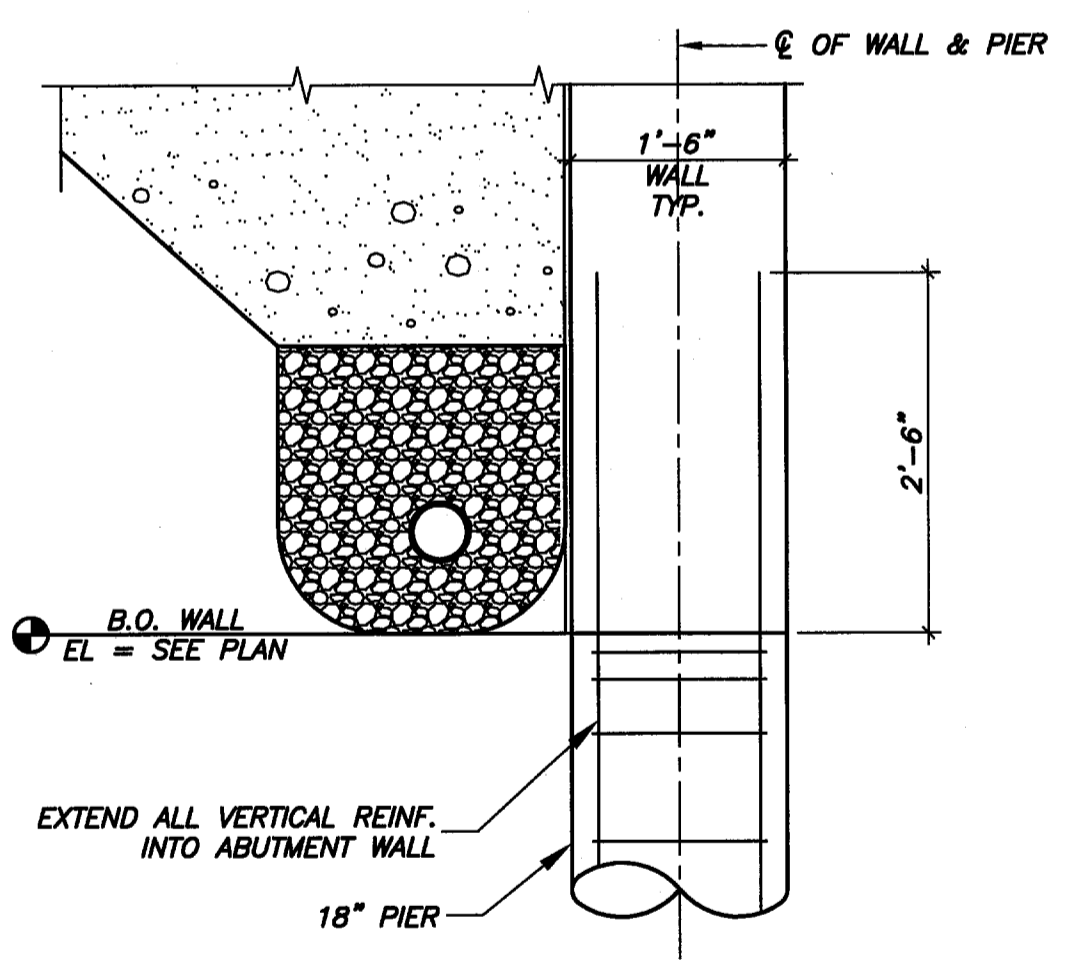
**04 SECTION**  
3/4" = 1'-0"



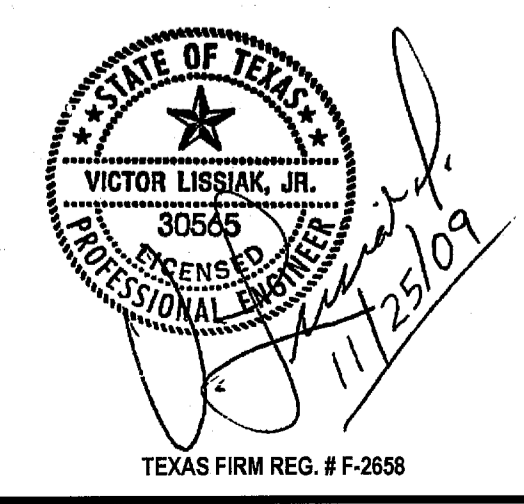
**05 SECTION**  
3/4" = 1'-0"



**06 SECTION**  
3/4" = 1'-0"

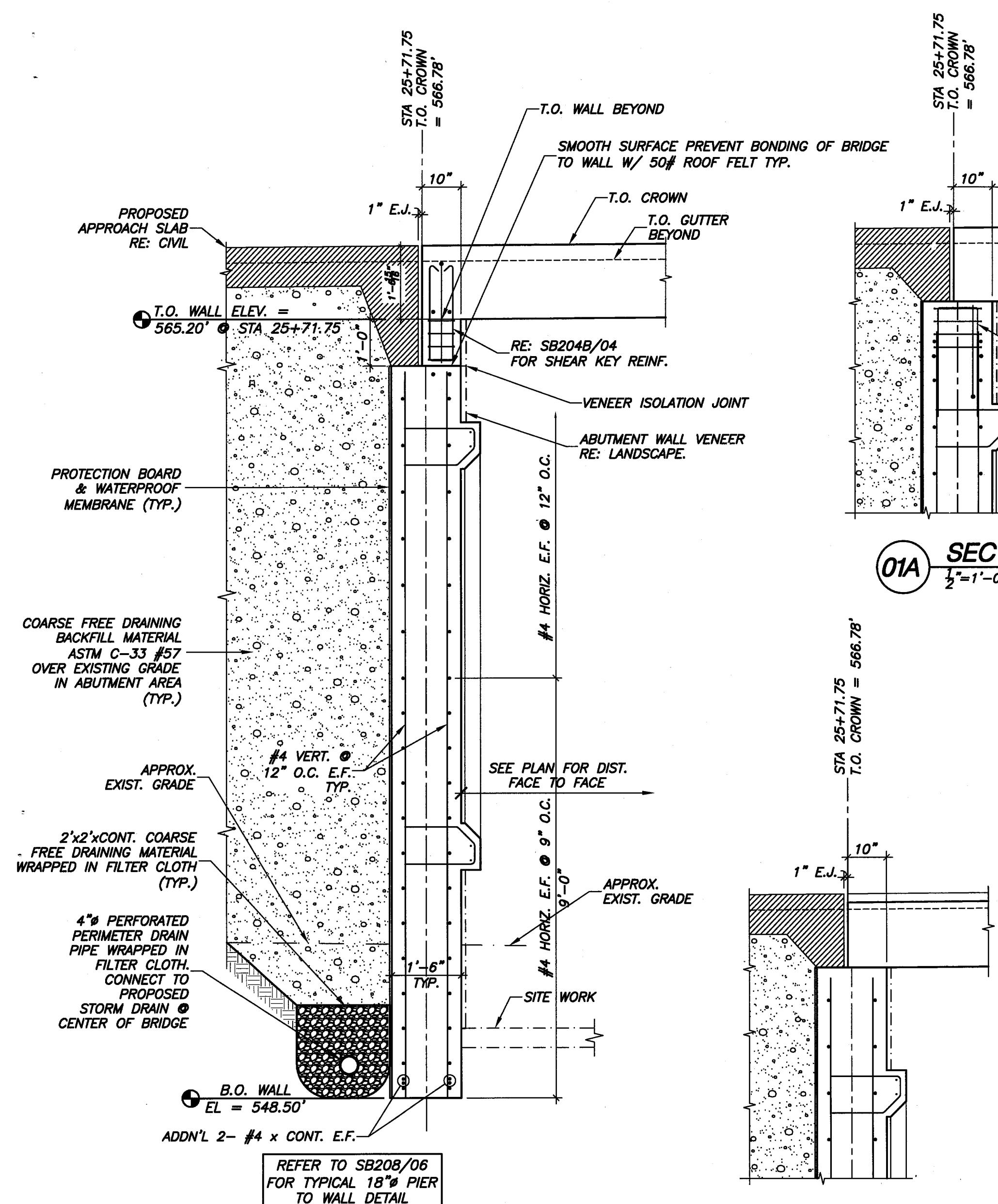


**07 TYPICAL 18" PIER TO ABUTMENT WALL**  
3/4" = 1'-0"

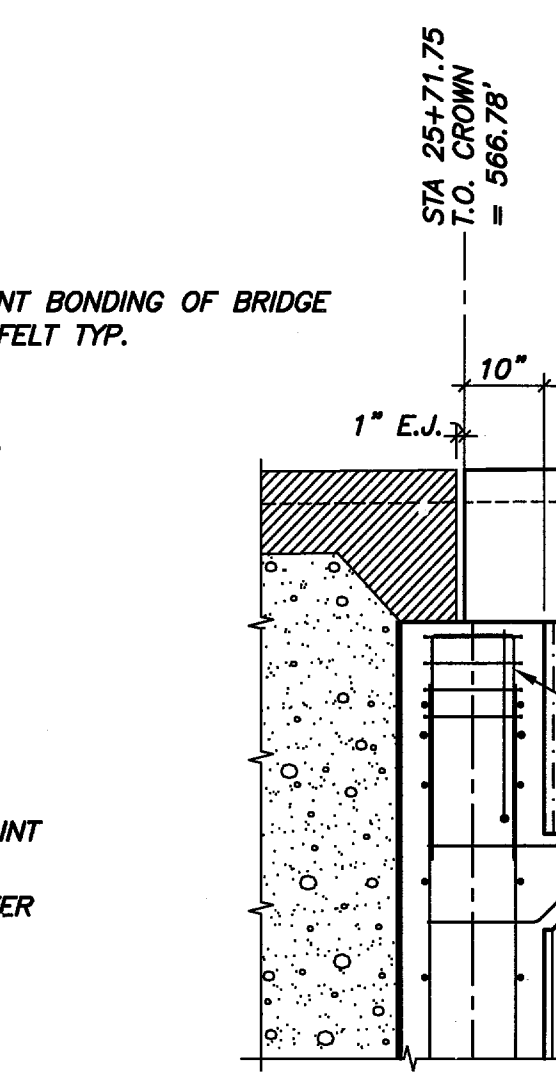


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<b>TOWN OF ADDISON</b> DALLAS COUNTY, TEXAS						
<b>VITRUVIAN PARK BRIDGES</b> PONTE AVE						
<b>ABUTMENT SECTIONS &amp; DETAILS</b>						
<b>VIEWTECH, INC.</b>						
Structural Engineers			4205 Beltway Dr. - Addison, Texas 75001 (972) 661-8187 Fax (972) 661-8172			
PROJECT	DESIGN	DRAWN	DATE	FILE	SHEET	
2007.144	VL	NERF	NOV. 25 2009	-	<b>SB207</b>	

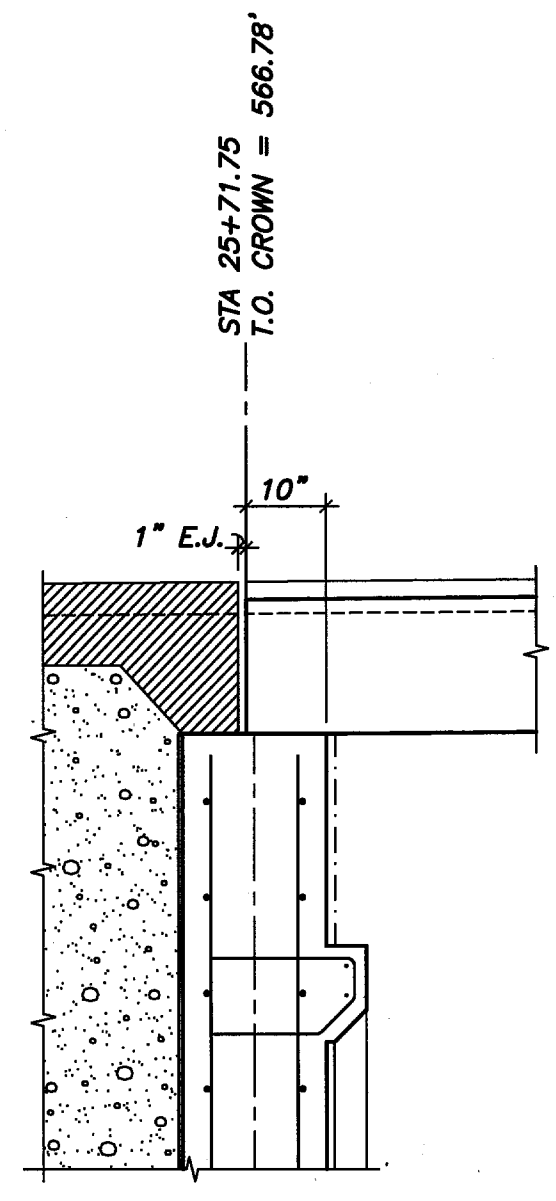
TEXAS REG. NO. F-2658



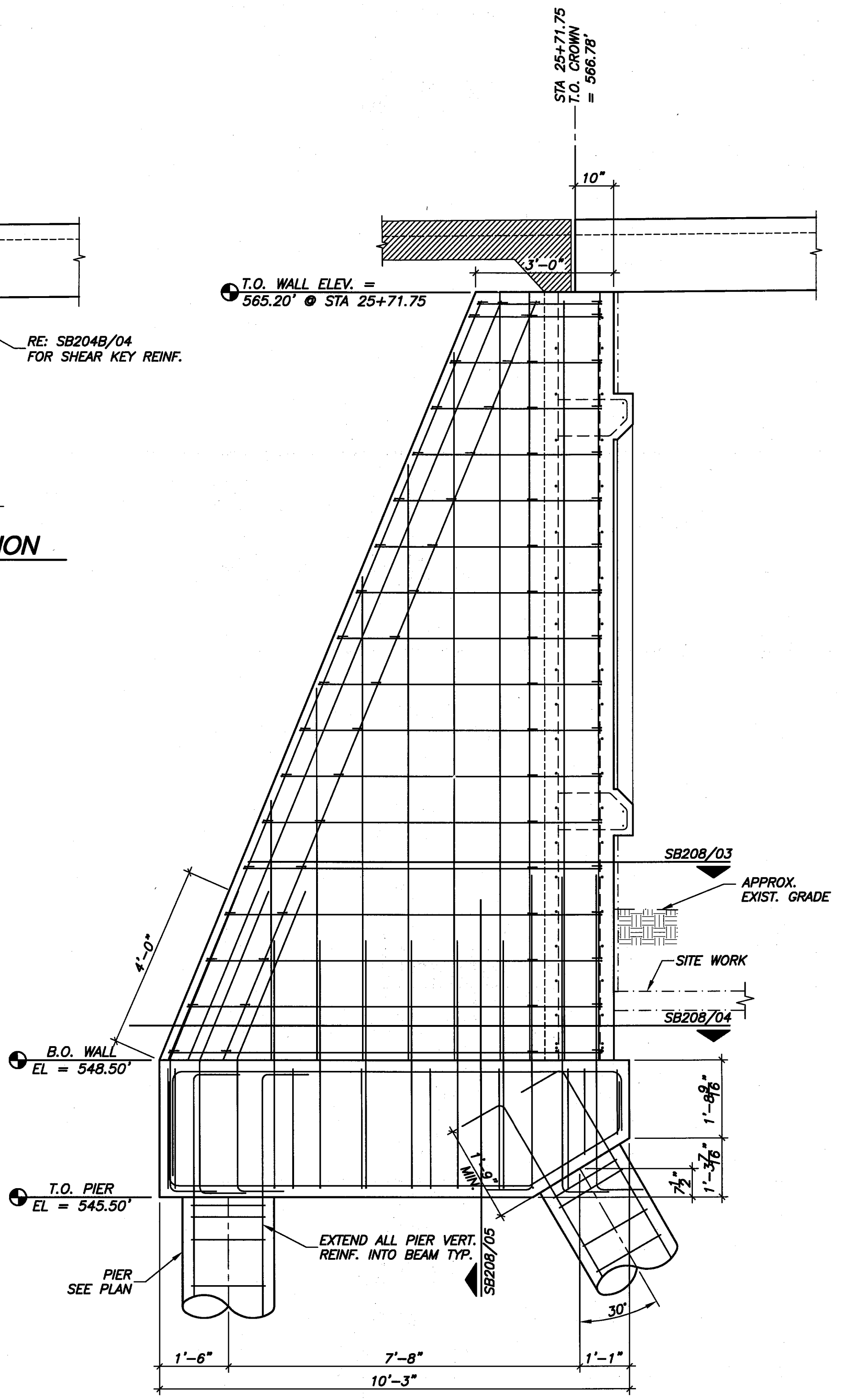
**01 EAST ABUTMENT SECTION**  
 $\frac{1}{2}'' = 1'-0''$



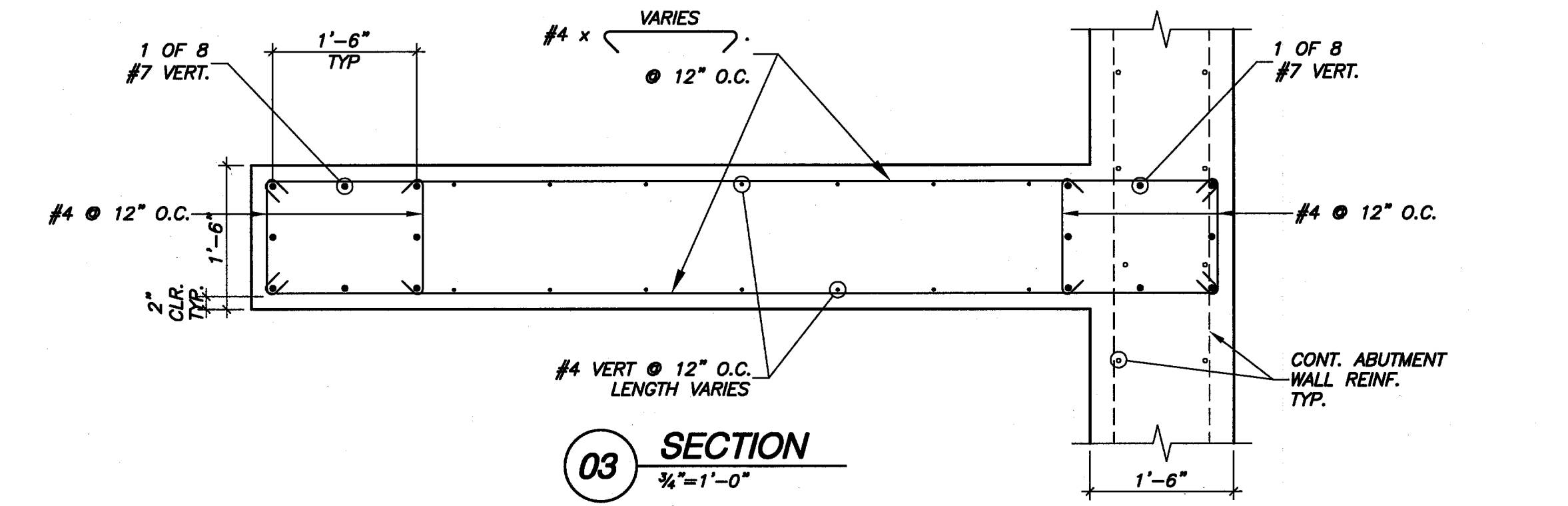
**01A SECTION**  
 $\frac{1}{2}'' = 1'-0''$



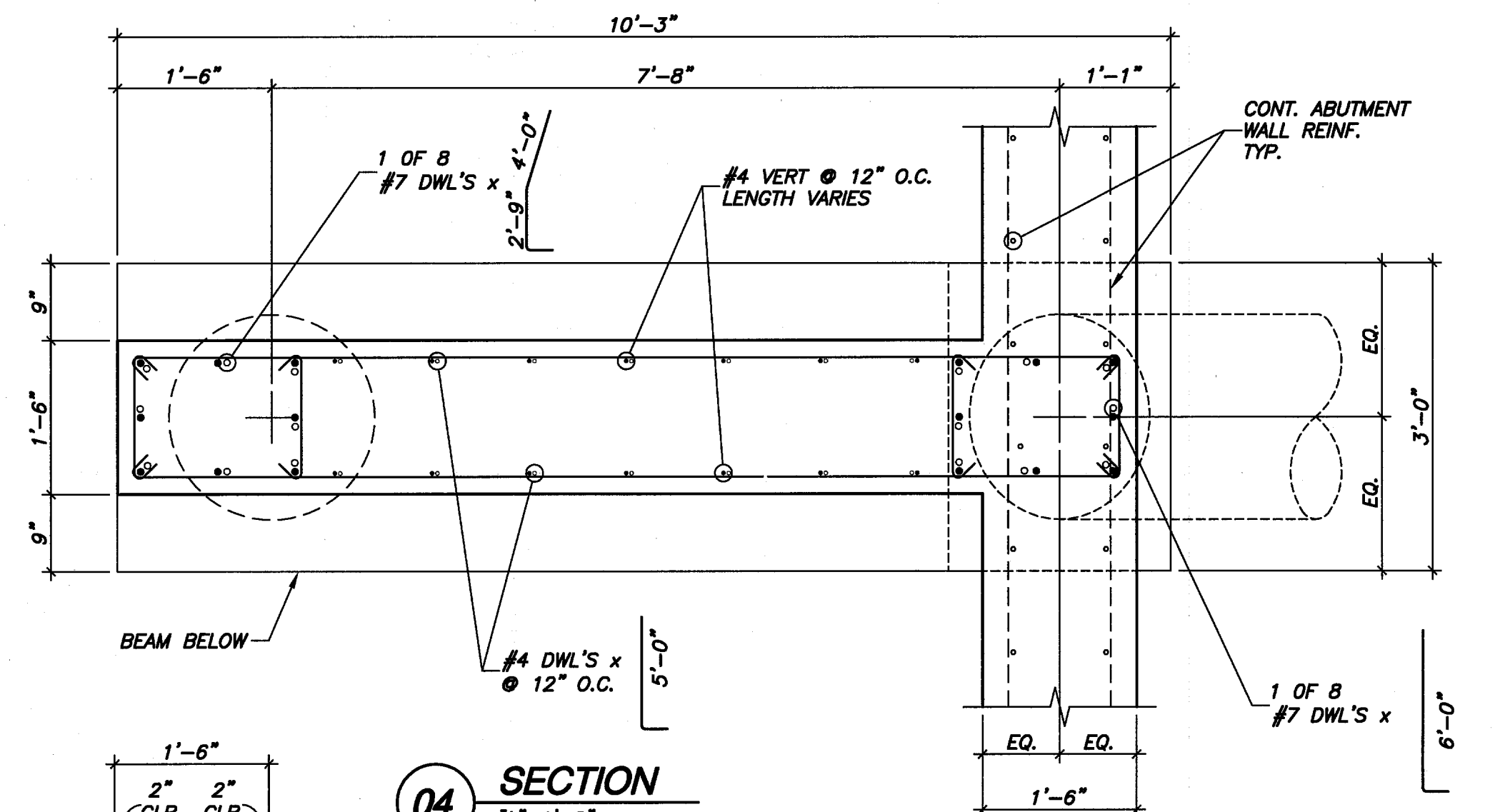
**01B SECTION**  
 $\frac{1}{2}'' = 1'-0''$



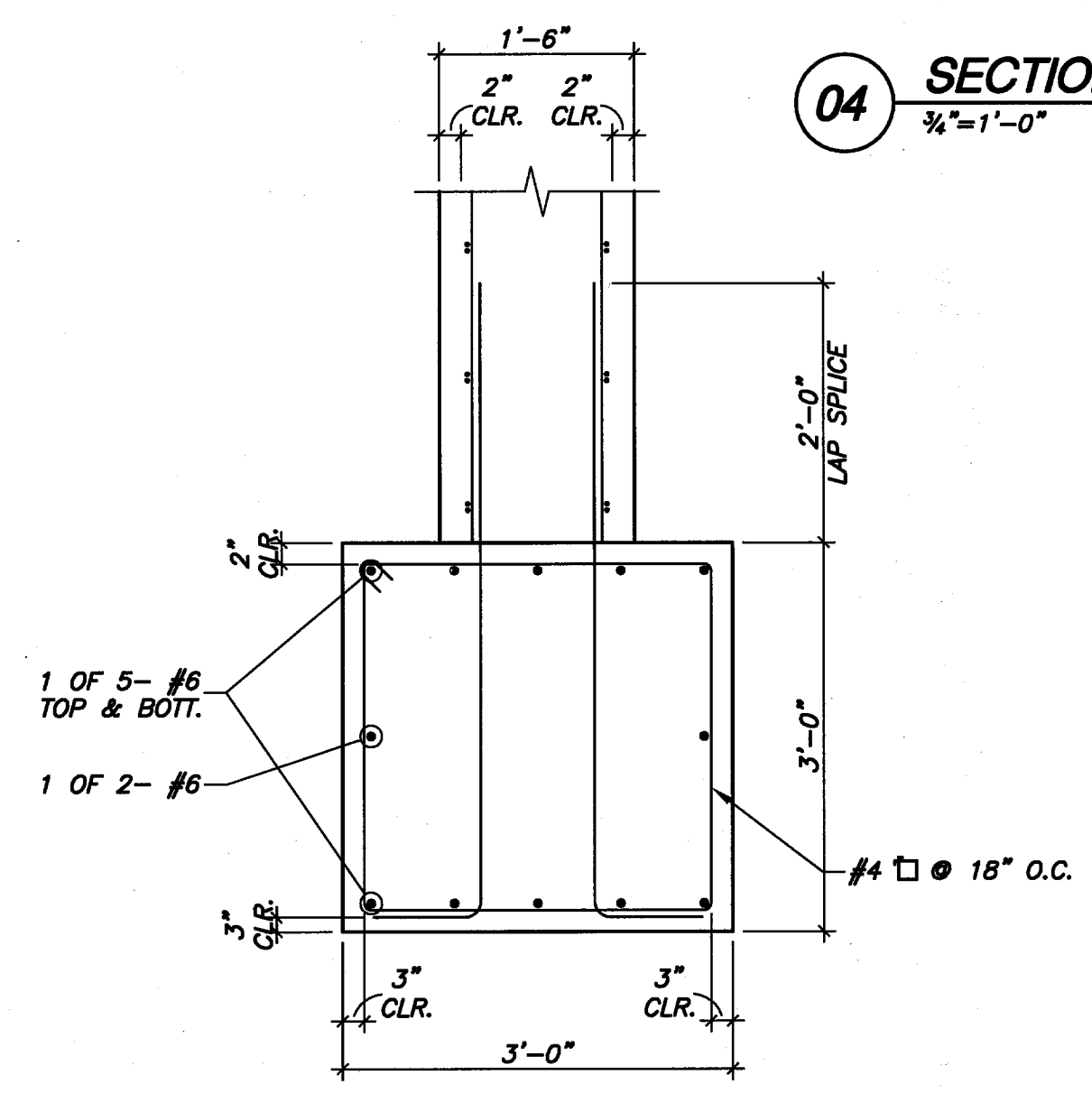
**02 EAST ABUTMENT SECTION**  
 $\frac{1}{2}'' = 1'-0''$



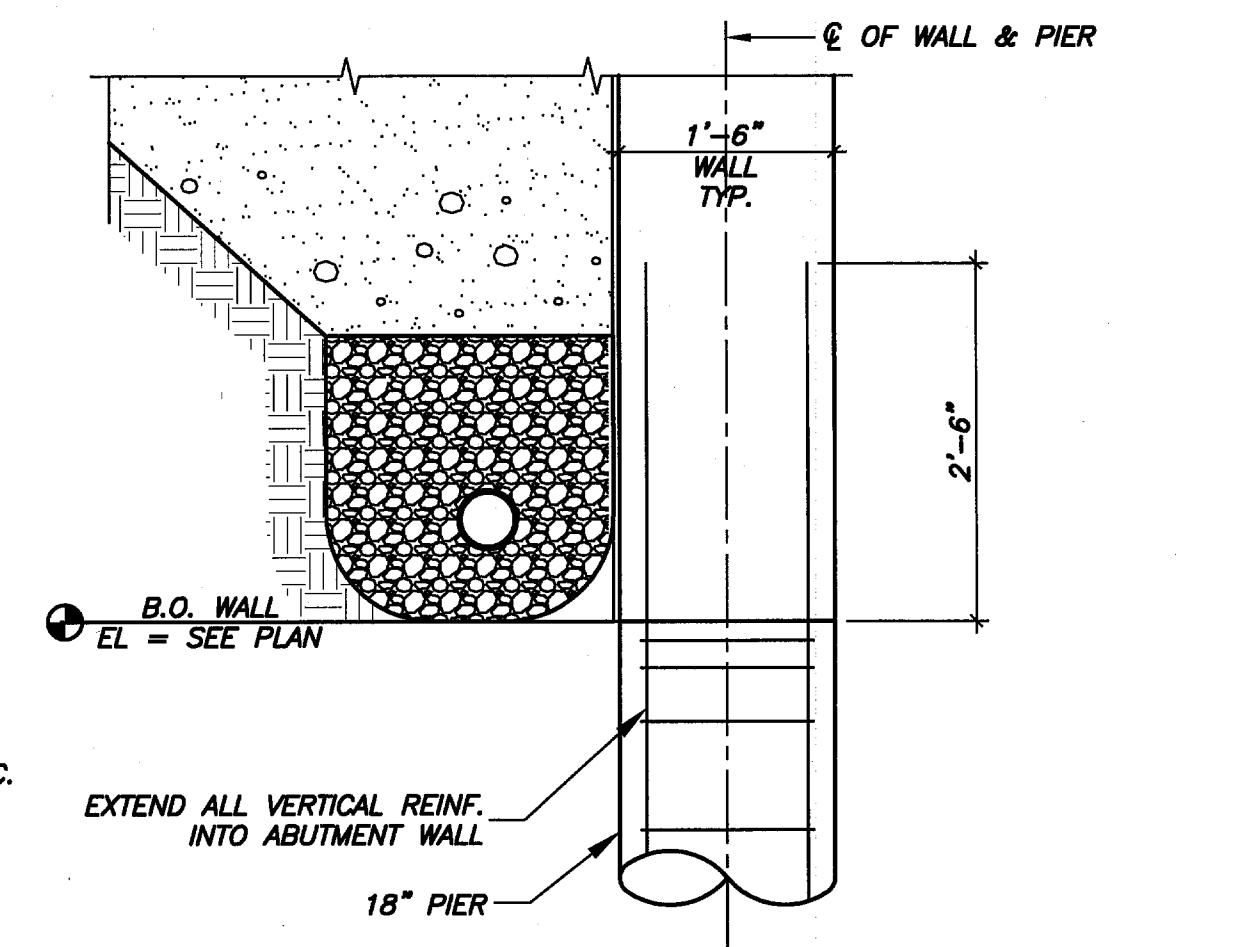
**03 SECTION**  
 $\frac{3}{4}'' = 1'-0''$



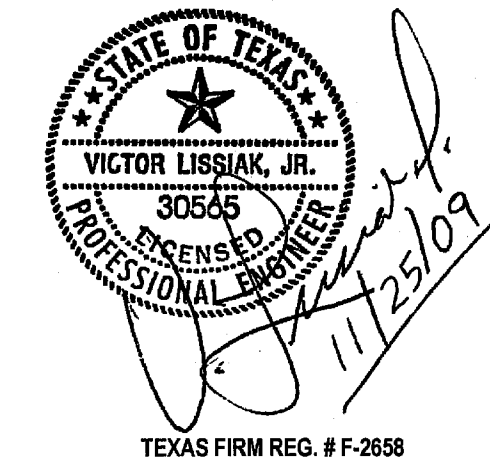
**04 SECTION**  
 $\frac{3}{4}'' = 1'-0''$



**05 SECTION**  
 $\frac{3}{4}'' = 1'-0''$

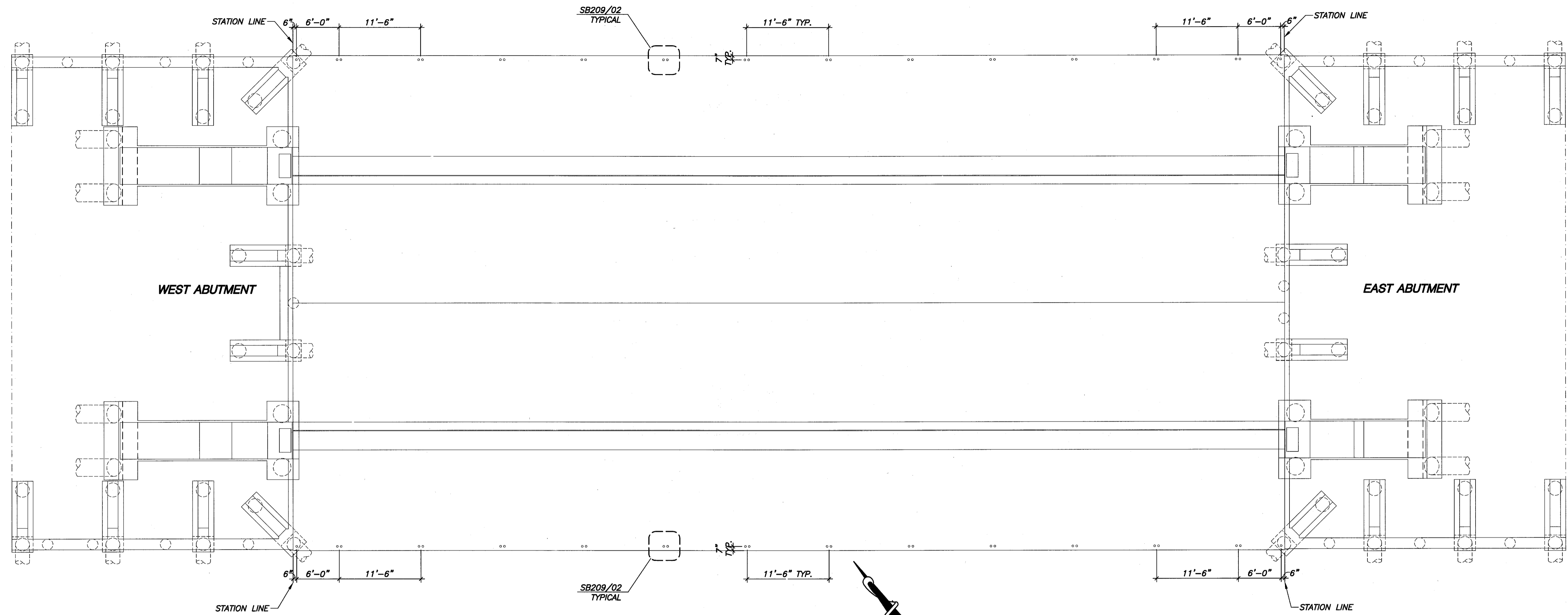


**06 TYPICAL 18\"/>
 $\frac{3}{4}'' = 1'-0''$**

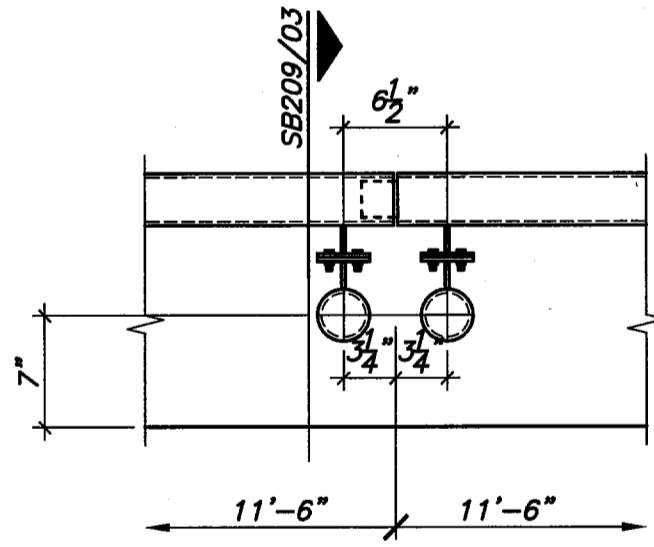
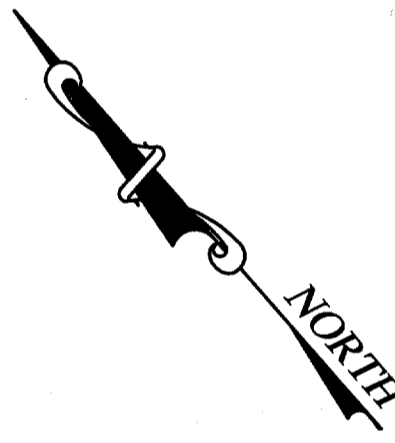


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NO.	REVISION	BY DATE
<p><b>TOWN OF ADDISON</b>          DALLAS COUNTY, TEXAS</p> <p><b>VITRUVIAN PARK BRIDGES</b>          PONTE AVE</p> <p><b>ABUTMENT SECTIONS &amp; DETAILS</b></p>		
<b>VIEWTECH, INC.</b> Structural Engineers		4205 Beltway Dr. - Addison, Texas 75001 (972) 661-8187 Fax (972) 661-8172
PROJECT	DESIGN	DATE
2007.144	VL	NOV. 25 2009
DRAWN	FILE	SHEET
NERF	-	SB208

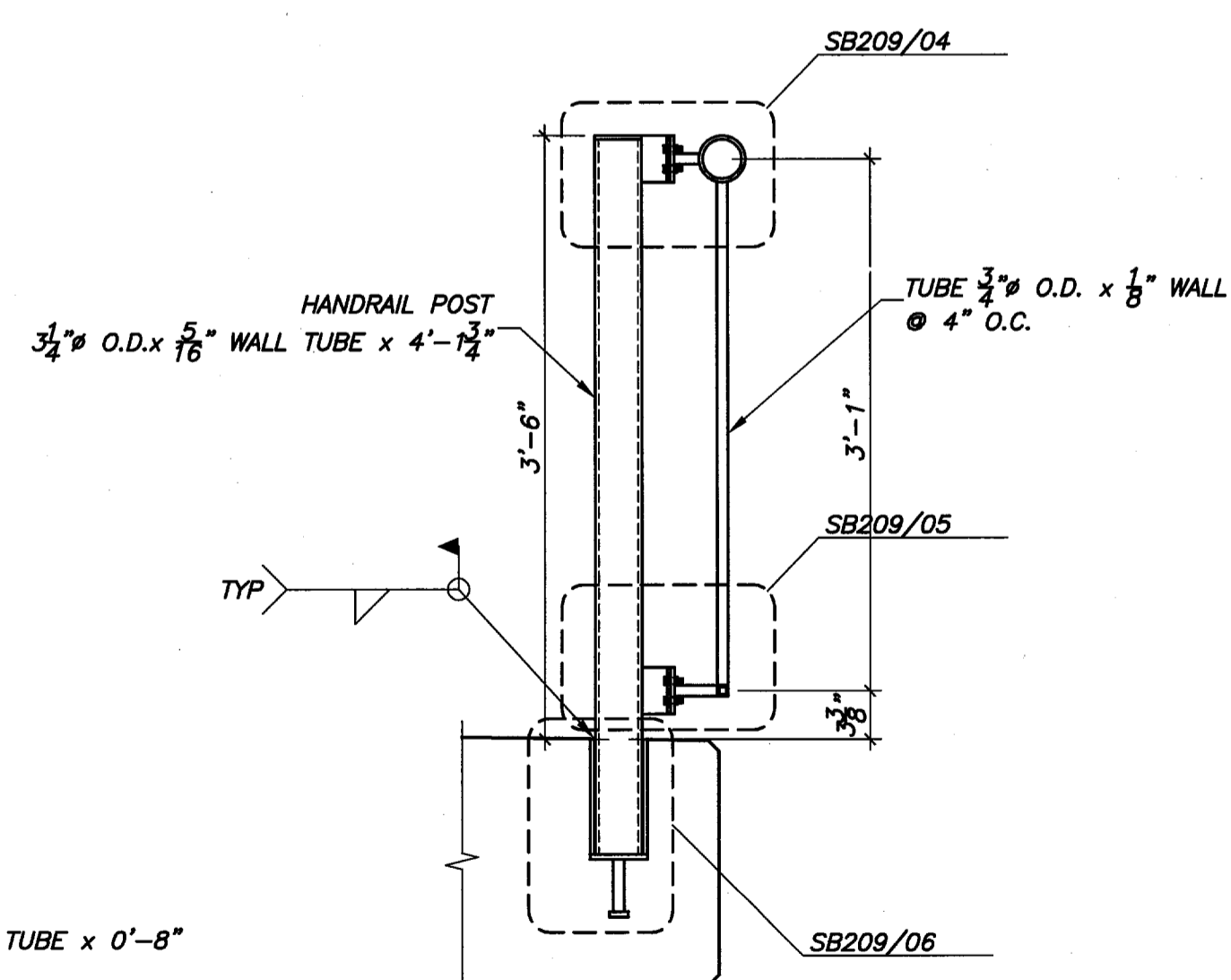
TEXAS FIRM REG. # F-2658



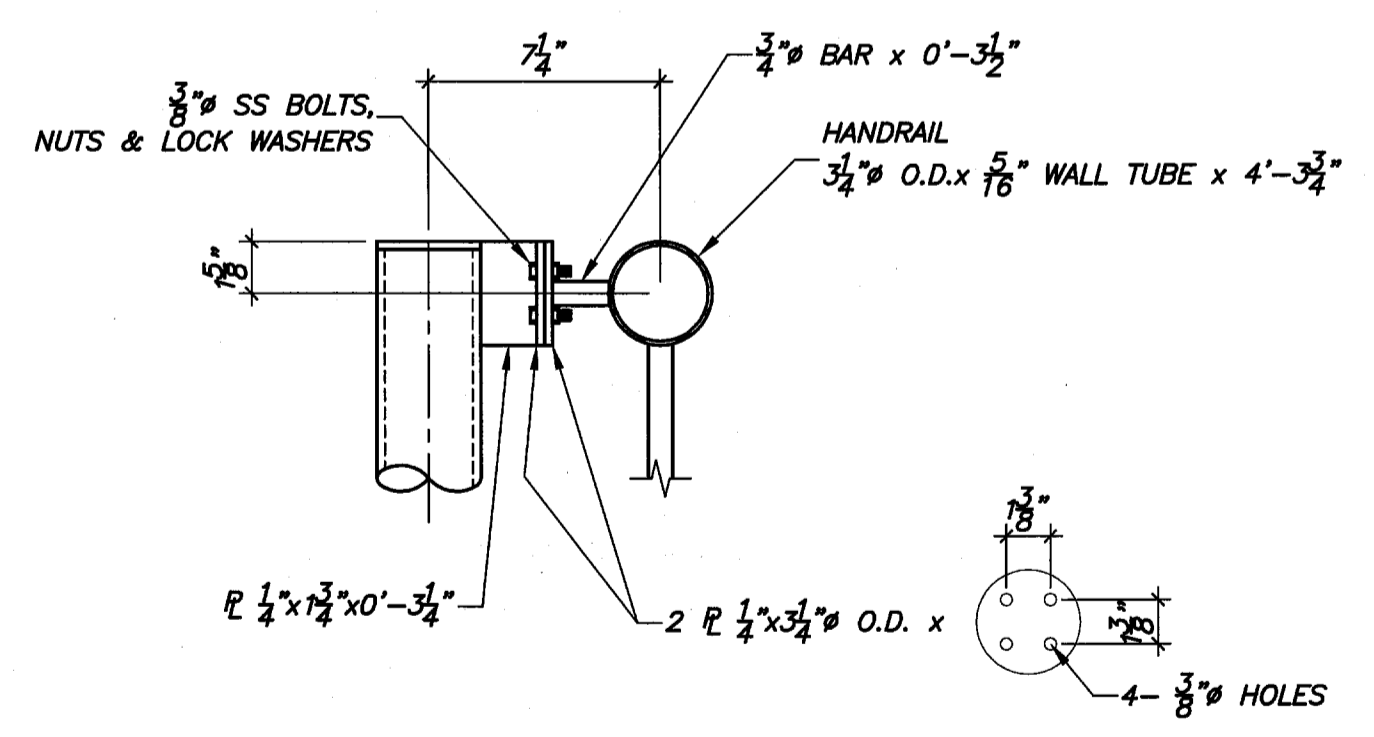
01 HANDRAIL LAYOUT  
1/8"=1'-0"



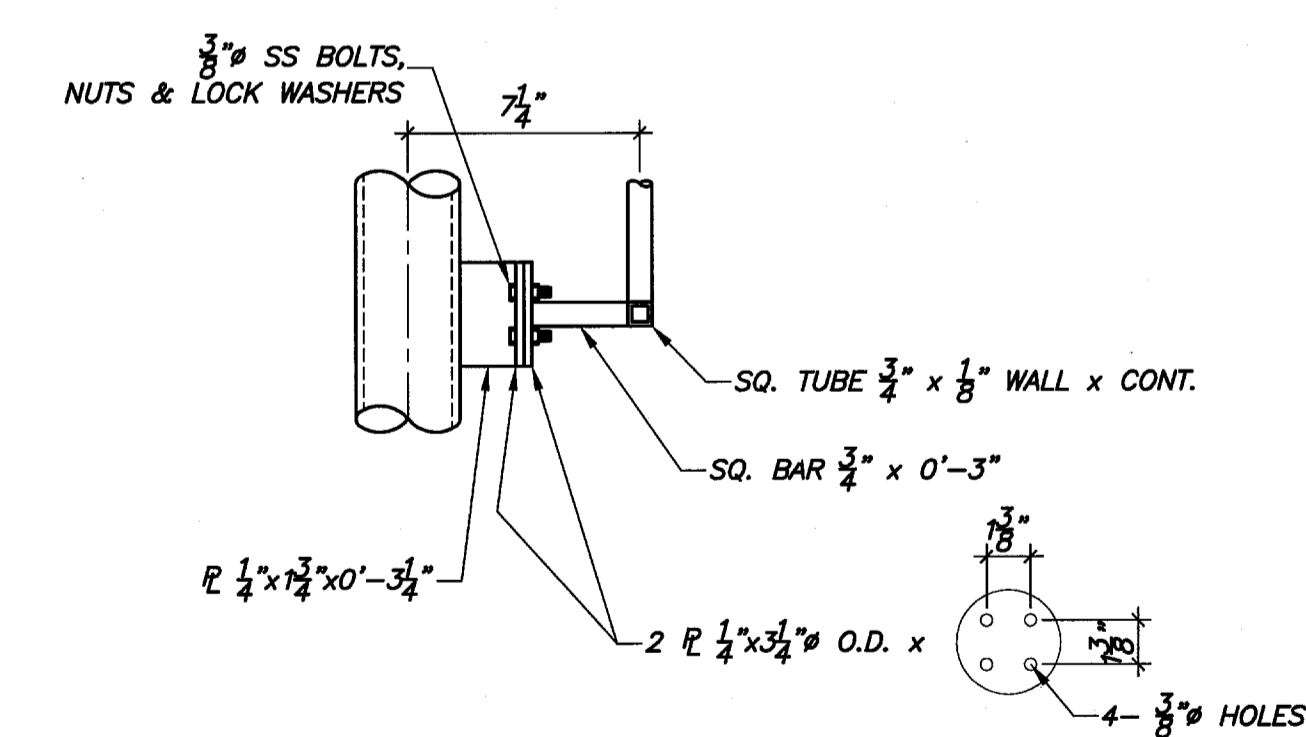
02 PARTIAL PLAN DETAIL  
1"=1'-0"



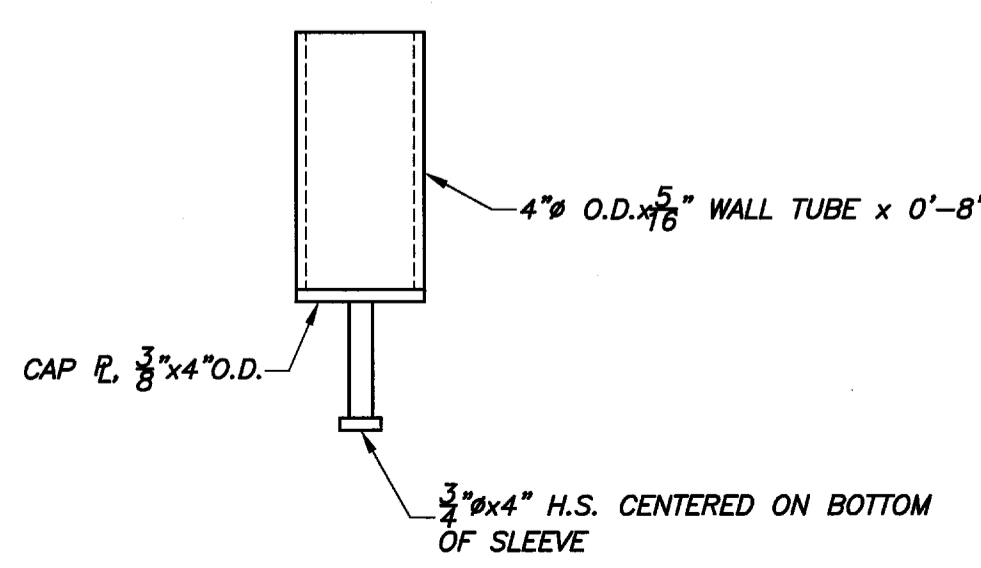
03 SECTION  
1"=1'-0"



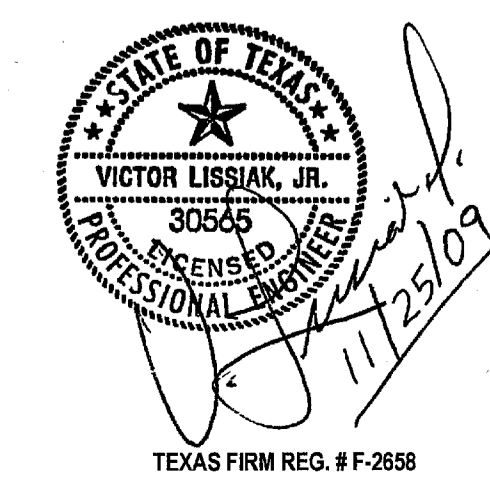
04 DETAIL  
N.T.S.



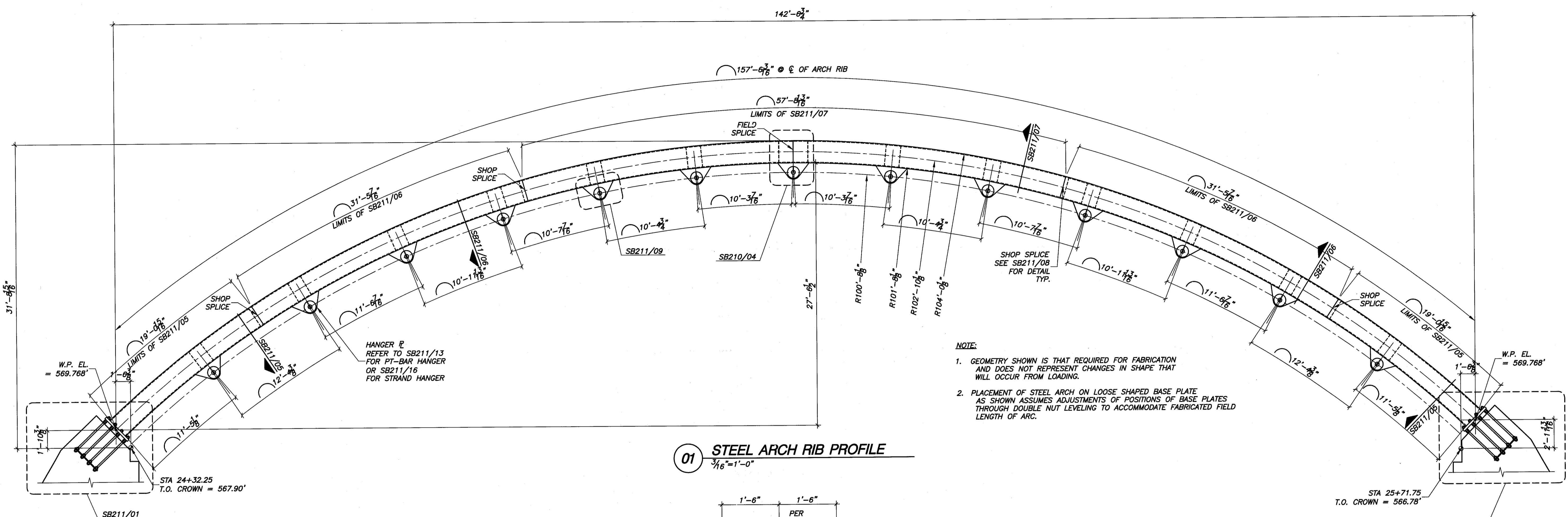
05 DETAIL  
N.T.S.



06 DETAIL  
N.T.S.

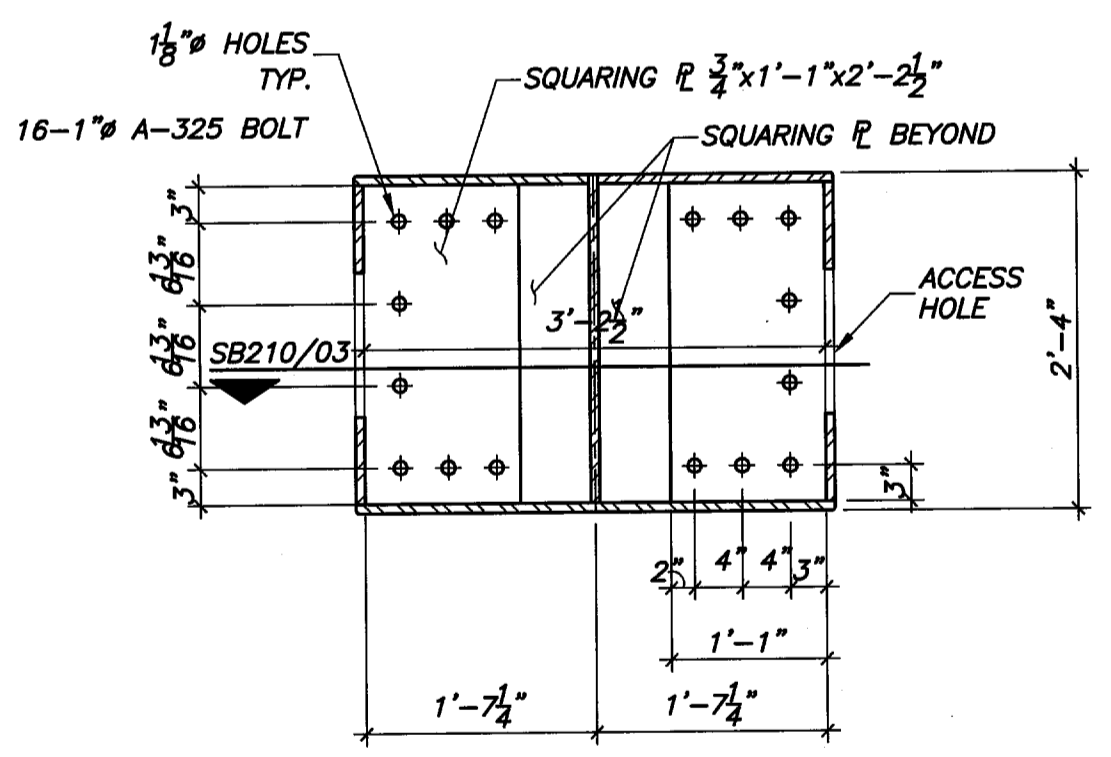


PRELIMINARY—FOR REVIEW ONLY		01/25/09	
NO.	REVISION	BY	DATE
TOWN OF ADDISON DALLAS COUNTY, TEXAS VITRUVIAN PARK BRIDGES PONTE AVE			
<b>HANDRAIL LAYOUT &amp; DETAILS</b> <b>VIEWTECH, INC.</b> Structural Engineers 4205 Beltway Dr. - Addison, Texas 75001 (972) 661-8187 Fax (972) 661-8172			
PROJECT	DESIGN	DATE	FILE
2007.144	VL	NOV. 25 2009	—
			SHEET
			SB209

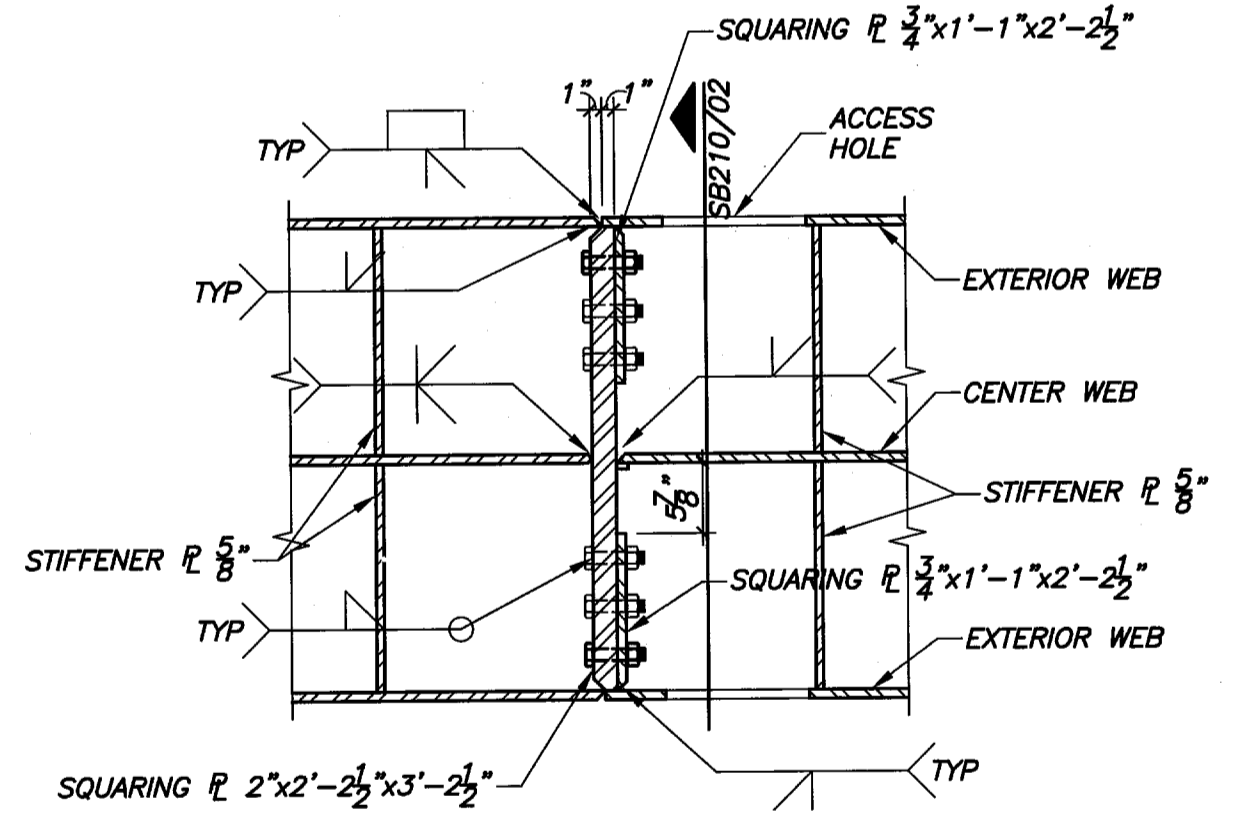


- NOTE:**
1. GEOMETRY SHOWN IS THAT REQUIRED FOR FABRICATION AND DOES NOT REPRESENT CHANGES IN SHAPE THAT WILL OCCUR FROM LOADING.
  2. PLACEMENT OF STEEL ARCH ON LOOSE SHAPED BASE PLATE AS SHOWN ASSUMES ADJUSTMENTS OF POSITIONS OF BASE PLATES THROUGH DOUBLE NUT LEVELING TO ACCOMMODATE FABRICATED FIELD LENGTH OF ARC.

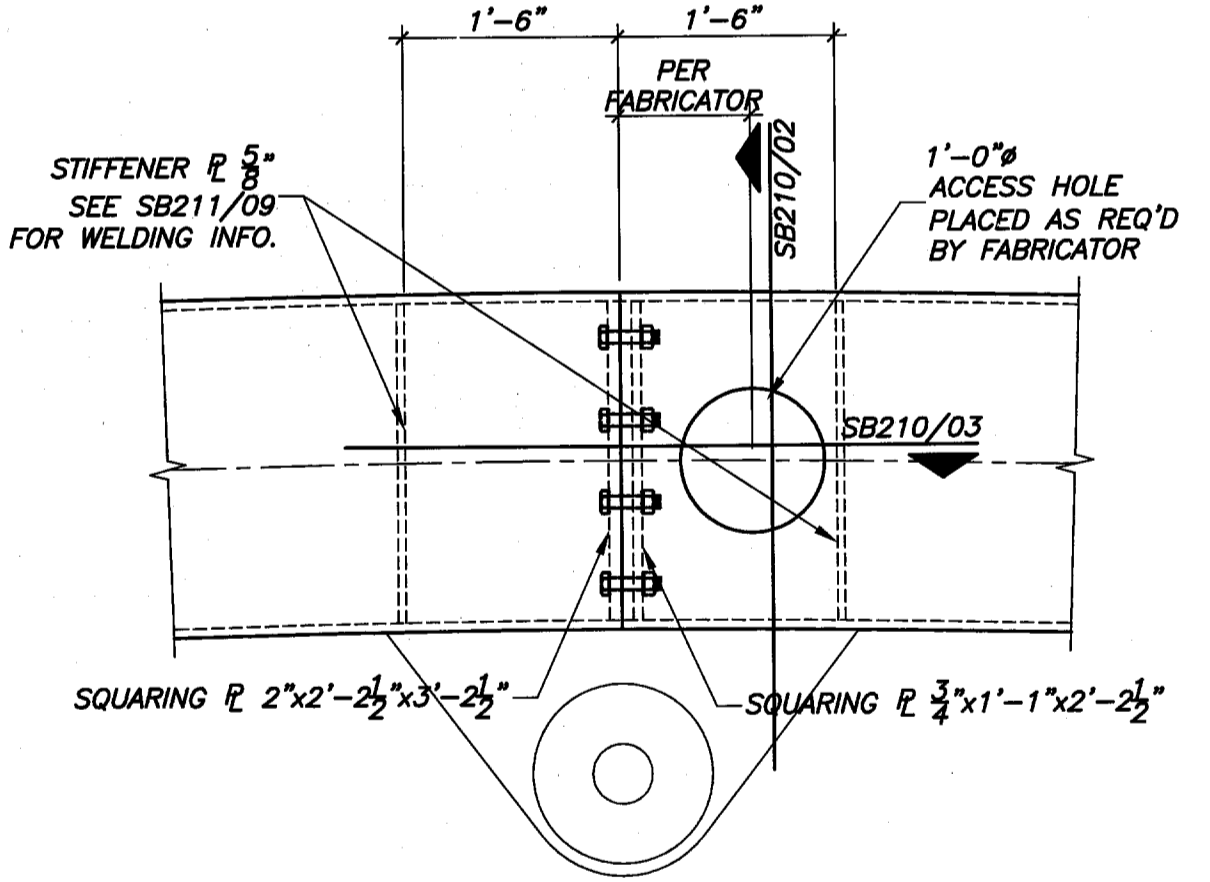
**01 STEEL ARCH RIB PROFILE**  
3/16"=1'-0"



**02 SECTION**  
3/4"=1'-0"

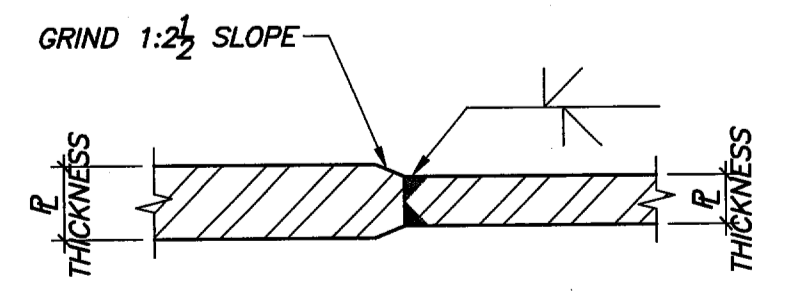


**03 FIELD SPLICE DETAIL PARTIAL PLAN VIEW**  
3/4"=1'-0"

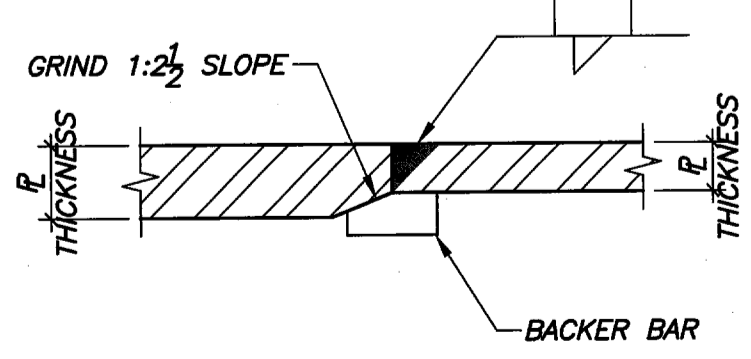


**04 FIELD SPLICE DETAIL ELEVATION VIEW**  
3/4"=1'-0"

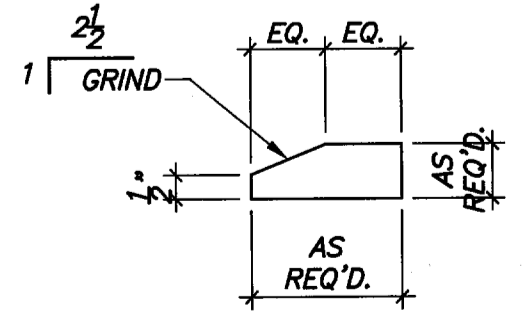
TABLE OF ESTIMATED QUANTITIES	
TONS OF STRUCTURAL STEEL	PER ARCH
	50



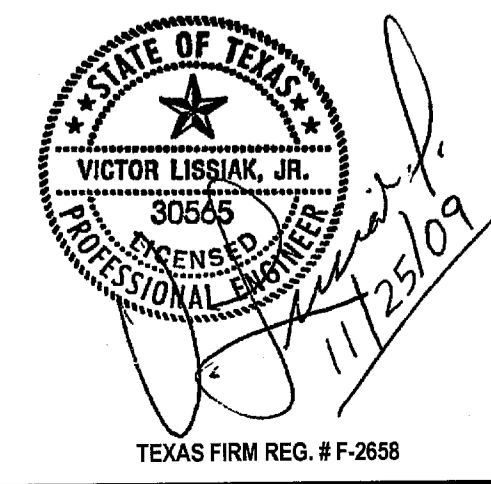
**05 TYPICAL CENTER WEB SHOP SPLICE DETAIL AT TRANSITION**  
3"=1'-0"



**06 TYPICAL SHOP SPLICE DETAIL AT TRANSITION**  
3"=1'-0"

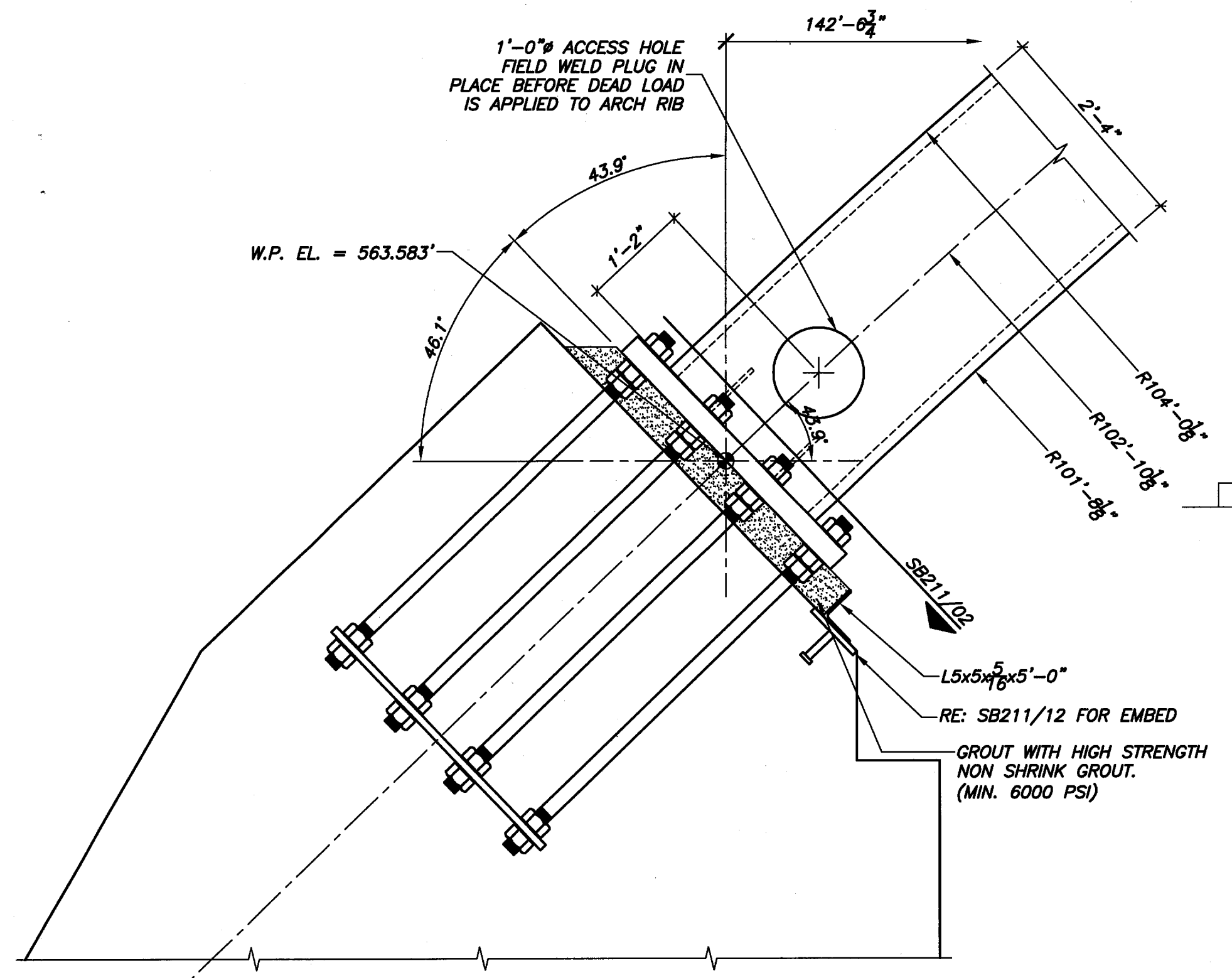


**07 BACKER BAR DETAIL**  
N.T.S.

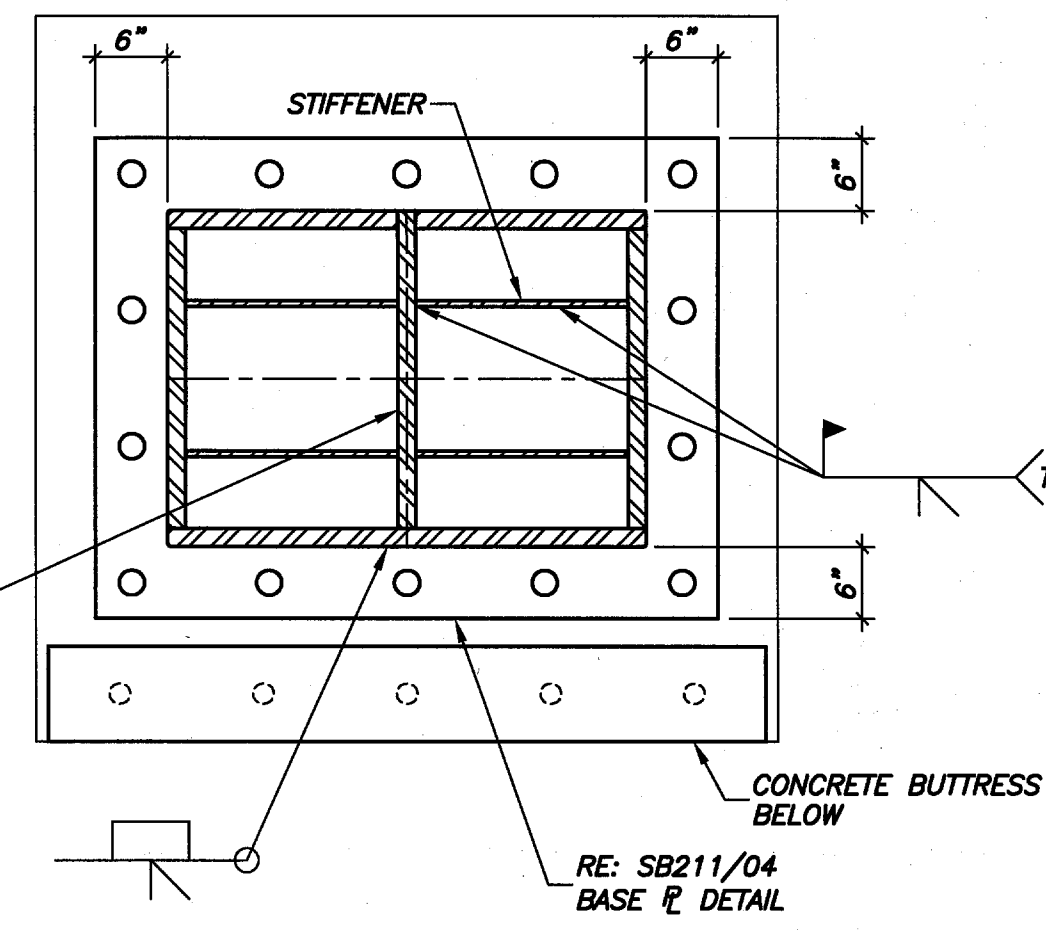


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TOWN OF ADDISON DALLAS COUNTY, TEXAS			
VITRUVIAN PARK BRIDGES PONTE AVE			
<b>STEEL ARCH RIB PROFILE</b>			
<b>VIEWTECH, INC.</b>		4205 Beltway Dr. - Addison, Texas 75001	
Structural Engineers		(972) 661-8187 Fax (972) 661-8172	
PROJECT	DESIGN	DRAWN	DATE
2007.144	VL	NERF	NOV. 25 2009
FILE	SHEET		
-	SB210		

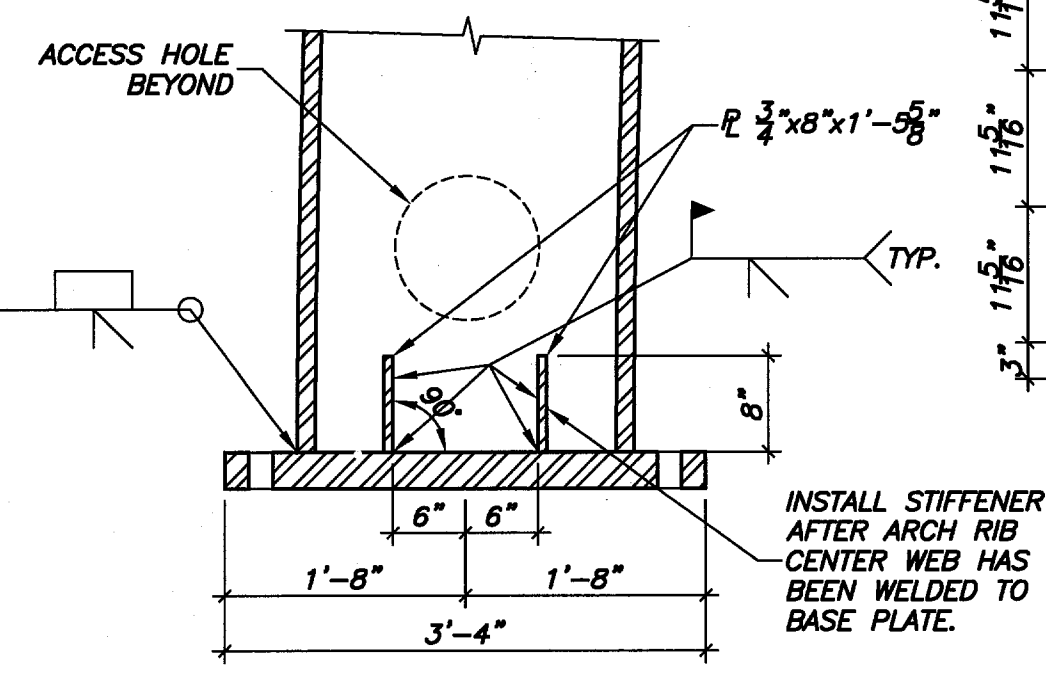
TEXAS FIRM REG. # F-2658



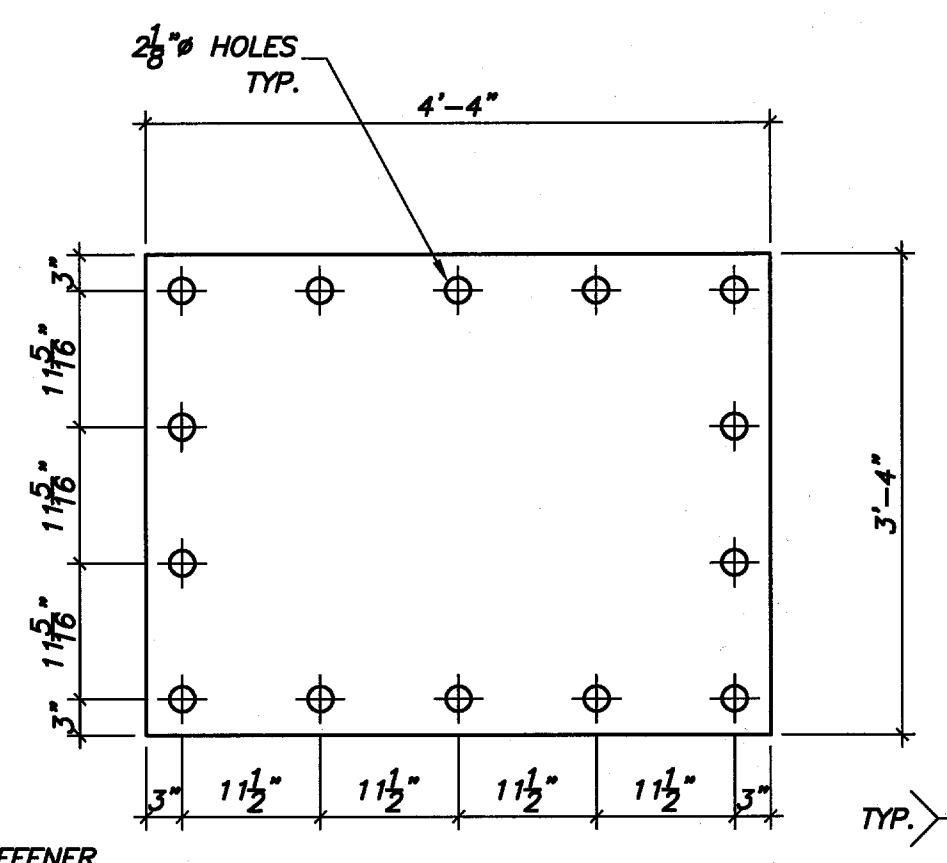
**01 DETAIL**  
3/4"=1'-0"



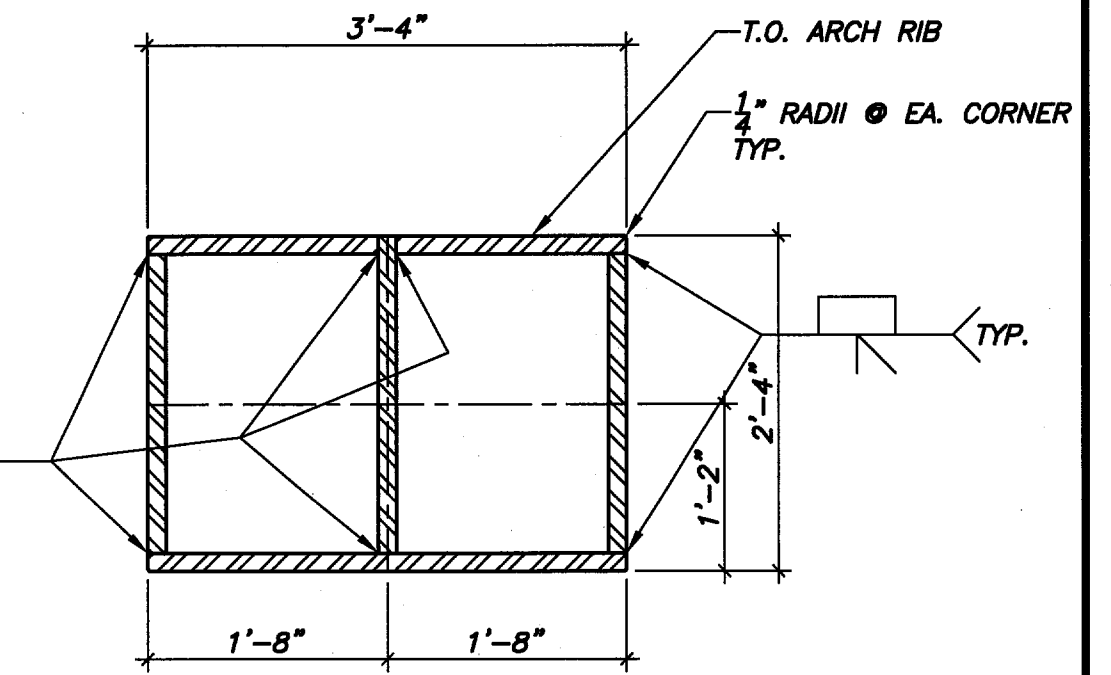
**02 DETAIL**  
3/4"=1'-0"



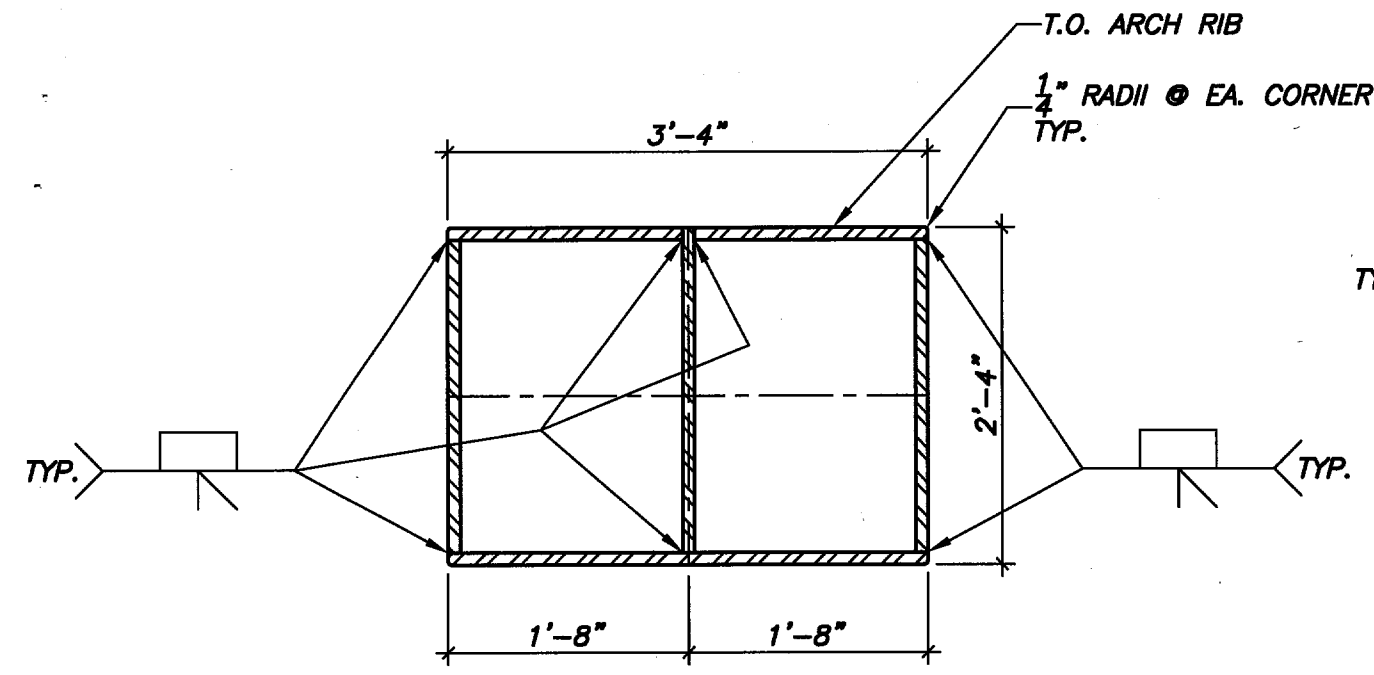
**03 SECTION**  
3/4"=1'-0"



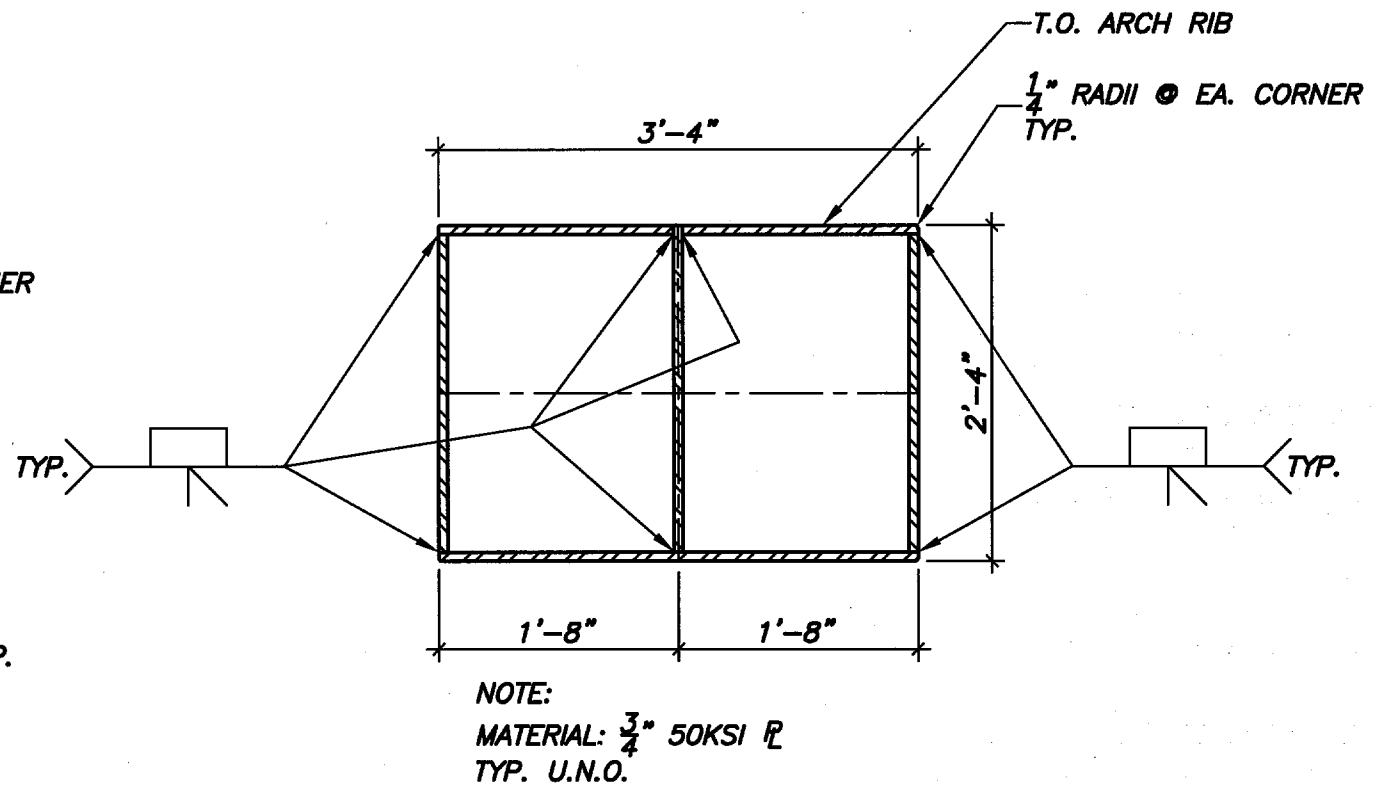
**04 BASE PLATE DETAIL**  
3/4"=1'-0"



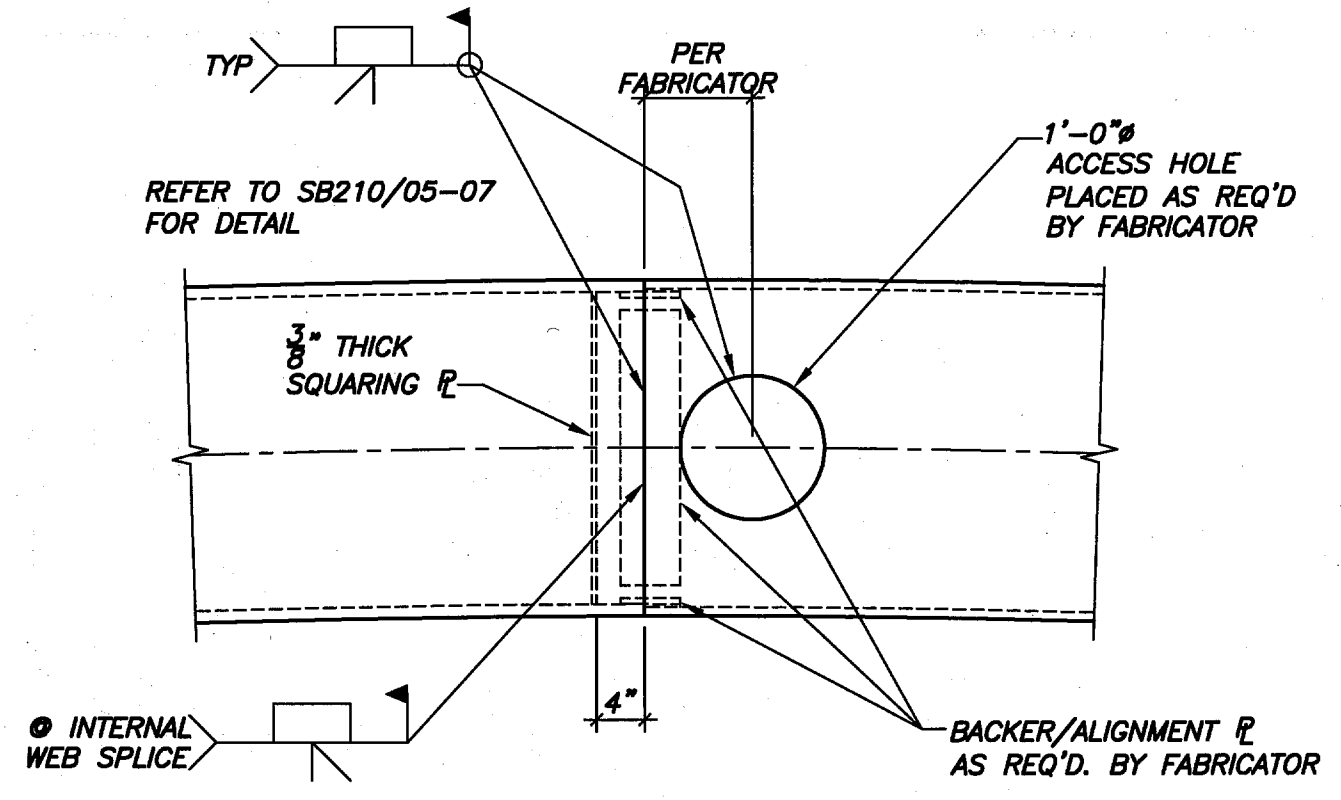
**05 SECTION**  
3/4"=1'-0"



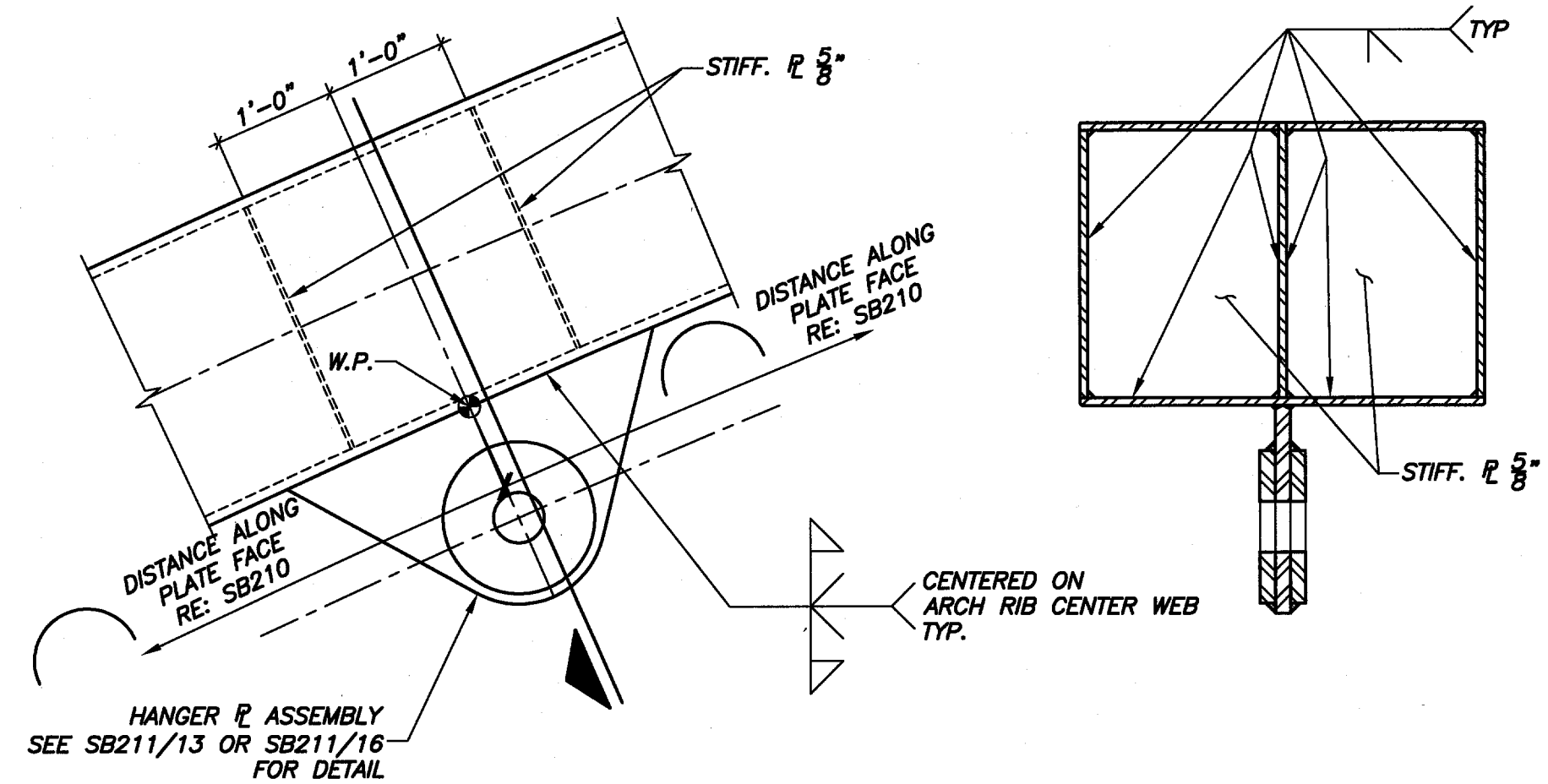
**06 SECTION**  
3/4"=1'-0"



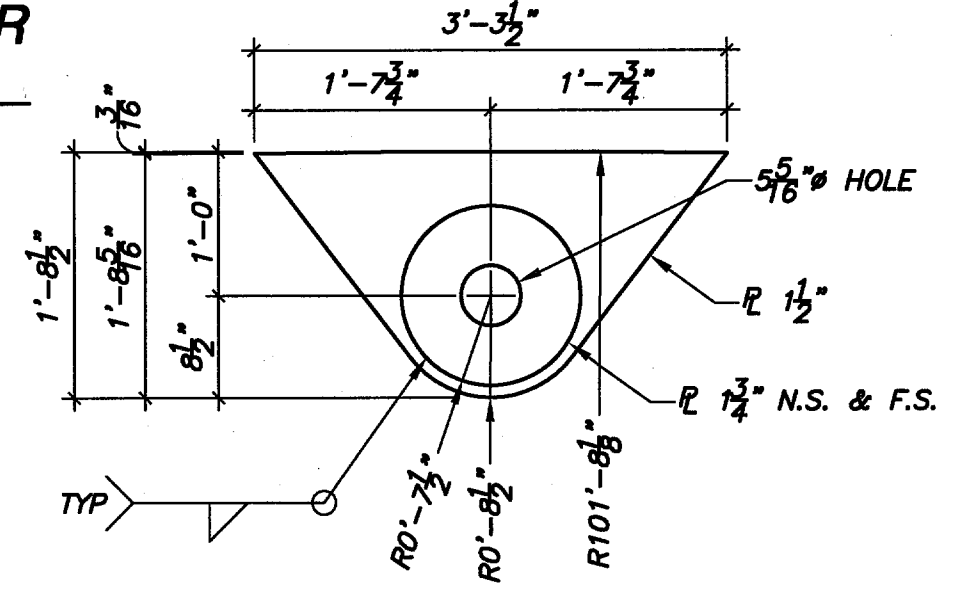
**07 SECTION**  
3/4"=1'-0"



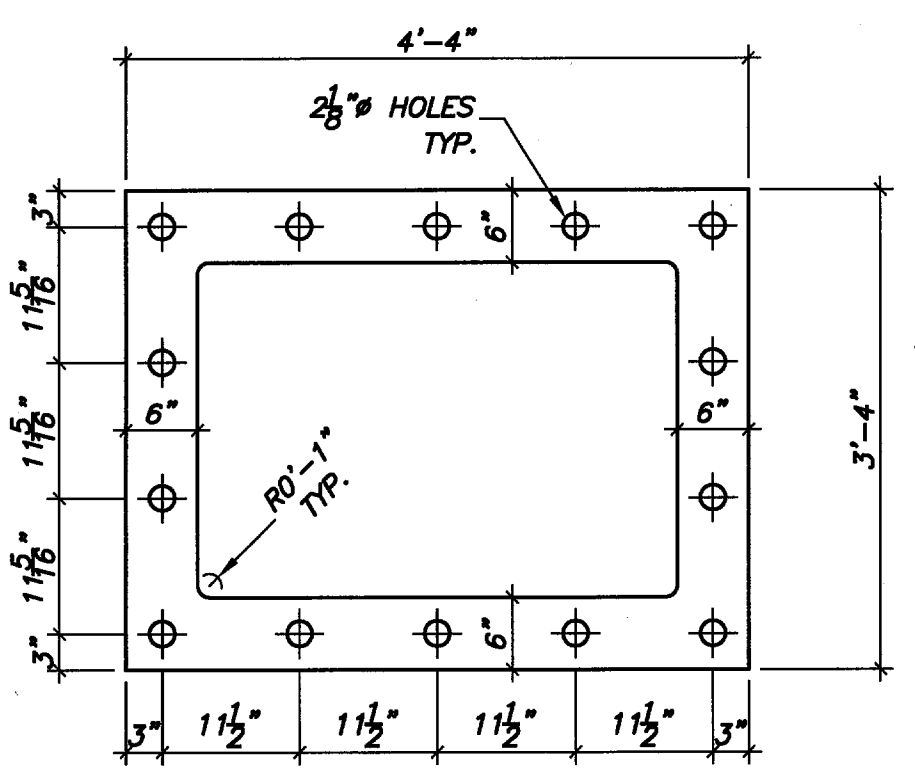
**08 TYP. SHOP SPLICE DETAIL**  
3/4"=1'-0"



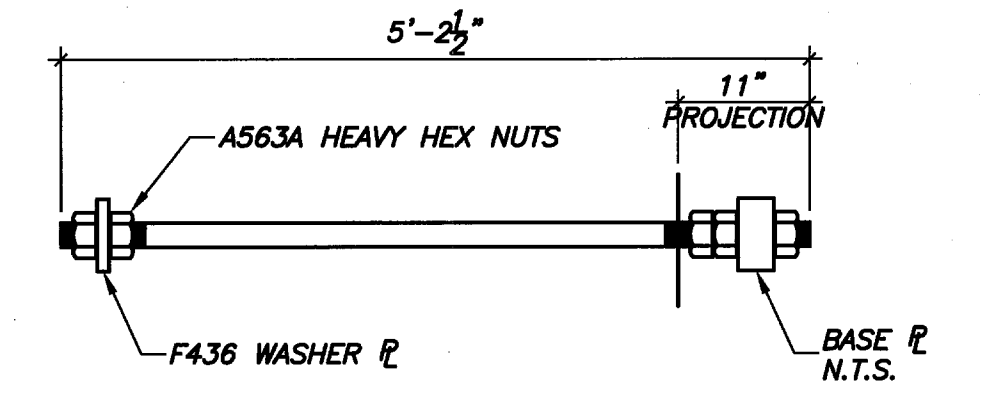
**09 TYP. CLEVIS HANGER PLATE LOCATION**  
3/4"=1'-0"



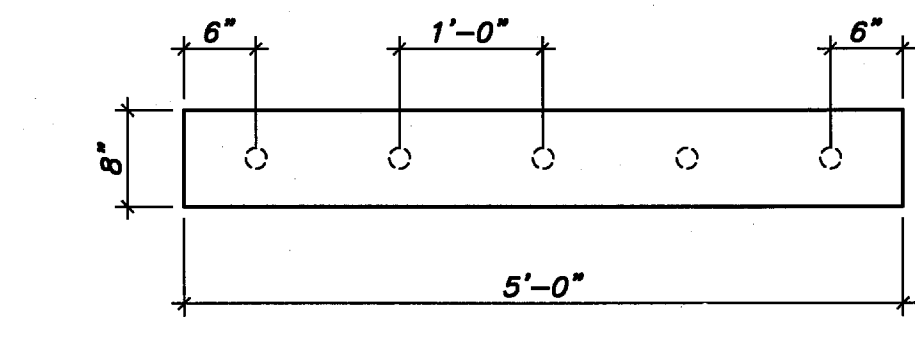
**16 ALTERNATE HANGER PLATE ASSEMBLY FOR STRAND HANGER**  
3/4"=1'-0"



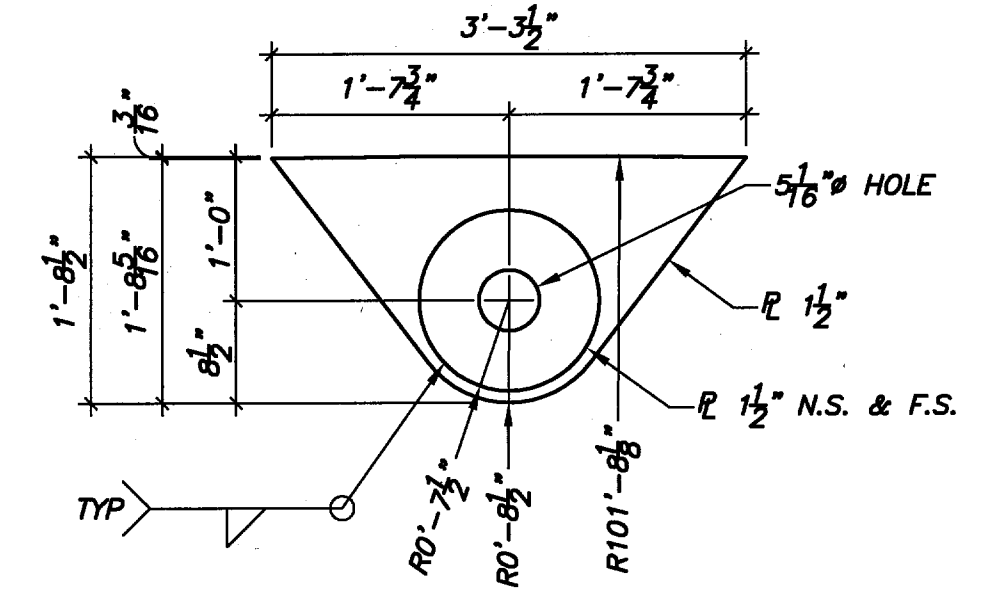
**10 WASHER PLATE DETAIL**  
3/4"=1'-0"



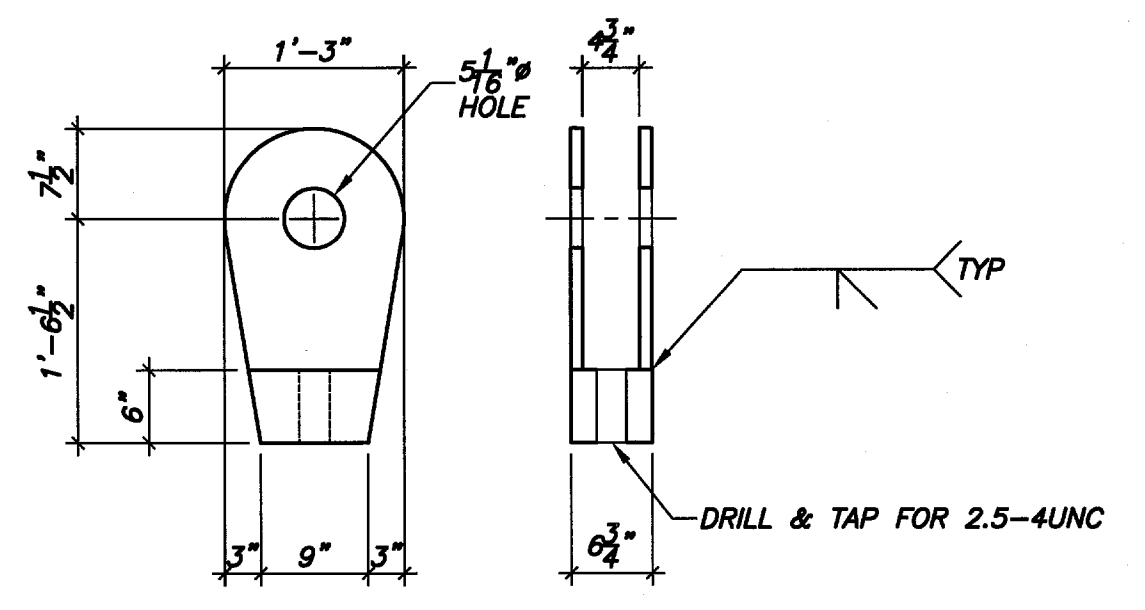
**11 ANCHOR BOLTS & NUTS**  
3/4"=1'-0"



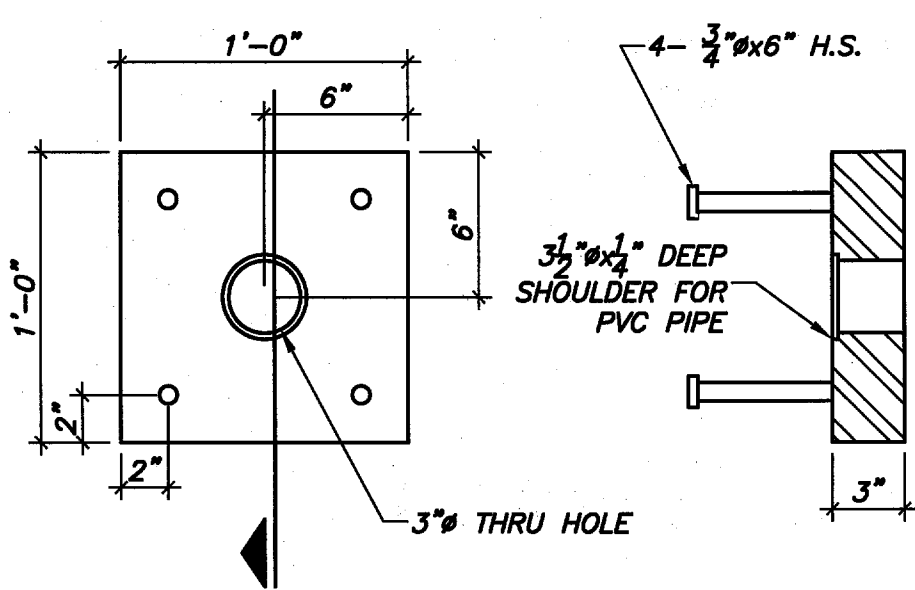
**12 EMBED DETAIL**  
3/4"=1'-0"



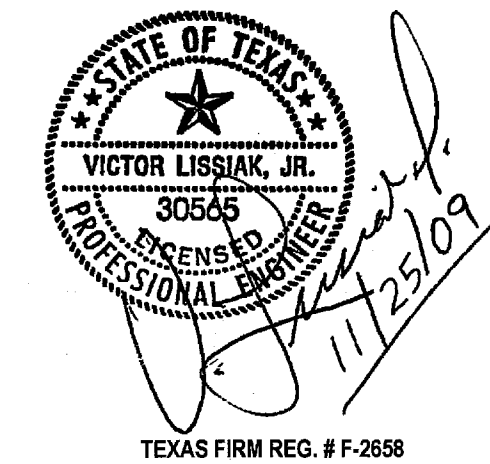
**13 HANGER PLATE ASSEMBLY FOR PT-BAR HANGER**  
3/4"=1'-0"



**14 CLEVIS ASSEMBLY**  
3/4"=1'-0"

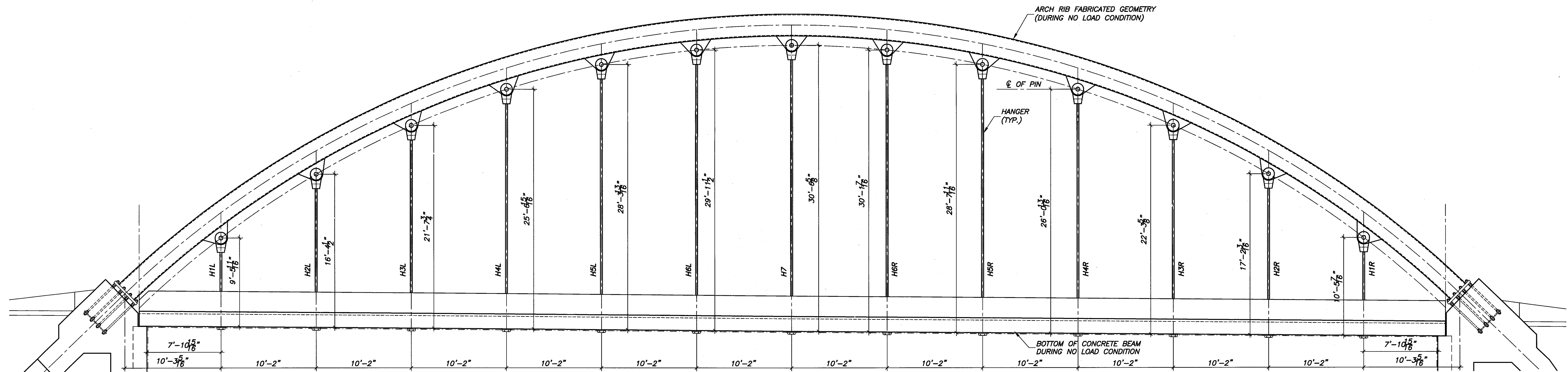


**15 HANGER BEARING PLATE DETAIL**  
3/4"=1'-0"



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<b>VIEWTECH, INC.</b>		4205 Beltway Dr. - Addison, Texas 75001 (972) 661-8187 Fax (972) 661-8172	
PROJECT	DESIGN	DRAWN	DATE
2007.144	VL	NERF	NOV. 25 2009
FILE			SHEET
			SB211





**01 HANGER ELEVATION**  
1/8" = 1'-0"

TABLE OF ESTIMATED QUANTITIES		
	NO. OF HANGERS	TOTAL L.F. OF HANGERS
PER ARCH	13	297
PER ARCH	13	297

**NOTE TO HANGER MANUFACTURER:**

1. LENGTH OF HANGER ASSEMBLY IS THE DISTANCE FROM CENTER OF PIN TO BOTTOM OF CONCRETE BEAM.
2. HANGER ASSEMBLY LENGTH IS BASED ON NO LOAD CONDITION OF ARCH RIB AND CONCRETE BEAM.
3. HANGER MANUFACTURER SHALL DETERMINE THE ACTUAL FABRICATION LENGTH TO ACCOUNT FOR ARCH RIB DEFLECTION, CONCRETE BEAM DEFLECTION AFTER SHORING REMOVAL AND HANGER ELONGATION.
4. HANGER MANUFACTURER SHALL SUBMIT THE HANGER ASSEMBLY FABRICATION DETAIL AND LENGTH FOR APPROVAL.
5. REFER TO SB217 FOR ARCH RIB AND BRIDGE DECK DEFLECTION.

HANGER STRESSING SEQUENCE				
SEQUENCE NUMBER	HANGER MARK	STAGE 1	STAGE 2	FINAL FORCE
1	AR1-H1L, AR2-H1L AR1-H1R, AR2-H1R	-	40K	65K
2	AR1-H2L, AR2-H2L AR1-H2R, AR2-H2R	25K	60K	85K
3	AR1-H3L, AR2-H3L AR1-H3R, AR2-H3R	55K	70K	91K
4	AR1-H4L, AR2-H4L AR1-H4R, AR2-H4R	75K	75K	91K
5	AR1-H5L, AR2-H5L AR1-H5R, AR2-H5R	75K	70K	85K
6	AR1-H6L, AR2-H6L AR1-H6R, AR2-H6R	60K	60K	75K
7	AR1-H7, AR2-H7	45K	50K	70K

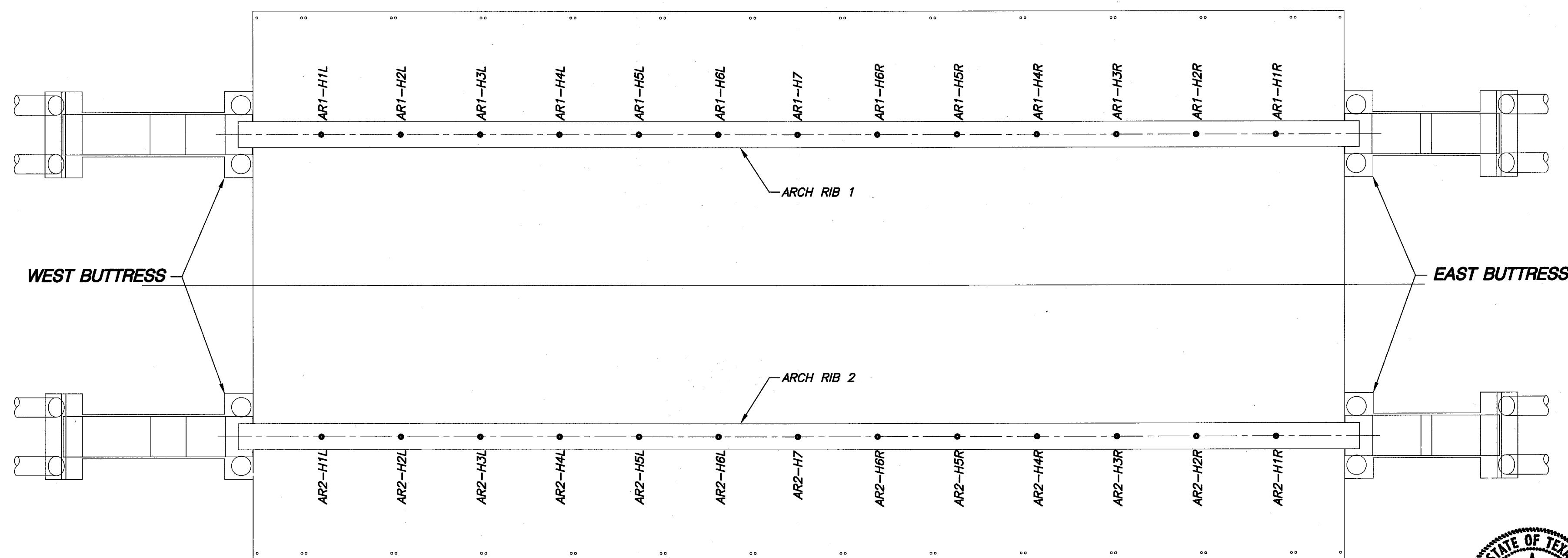
**\*\* NOTE \*\***

-FORCES SHOWN IN THIS TABLE REPRESENT THE TOTAL FORCE AND ARE NOT CUMULATIVE.

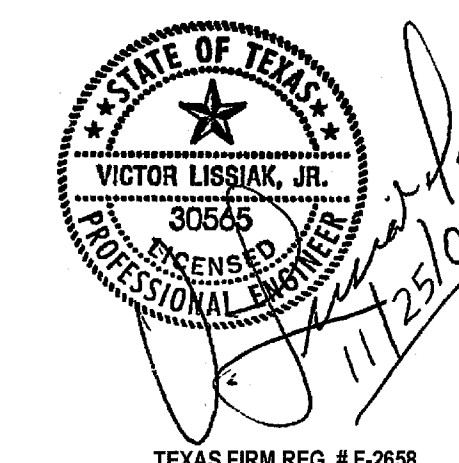
-MATCHING PANEL POINT TENSIONS OF ARCH RIB 1 AND ARCH RIB 2 SHALL BE A MAXIMUM OF ± 10%

**STRESSING PROCEDURE:**

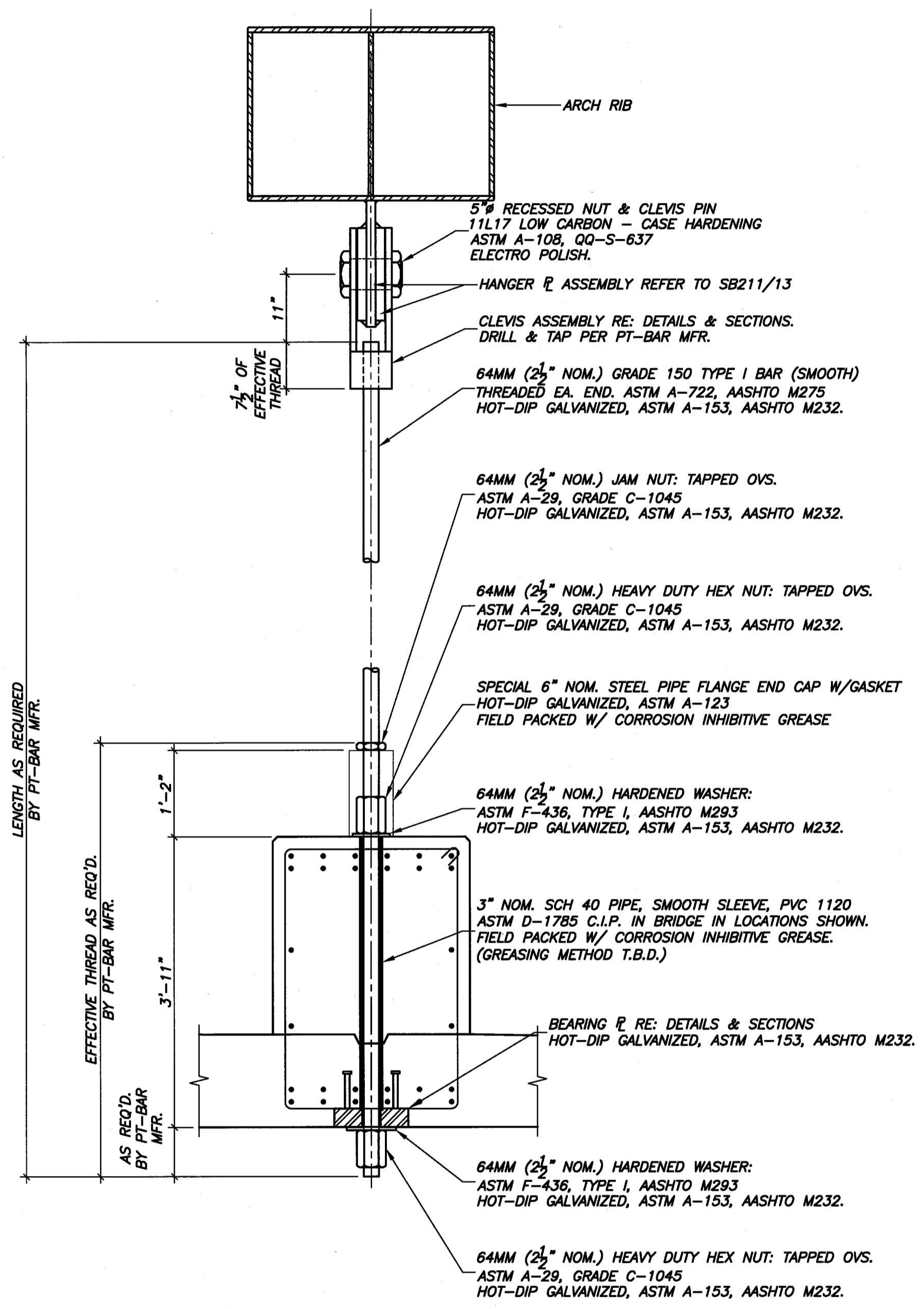
1. BRIDGE DECK SHORING MUST REMAIN IN PLACE DURING STRESSING STAGES 1 & 2.
2. HANGERS MUST BE STRESSED SIMULTANEOUSLY AS SHOWN IN THE HANGER STRESSING SEQUENCE TABLE I.E., HANGERS MARKED AR1-H1L, AR2-H1L, AR1-H1R, AND AR2-H1R SHALL ALL FOUR BE STRESSED AT THE SAME TIME.
3. THE E.O.R. MUST BE NOTIFIED OF THE ACTUAL HANGER FORCE IN EACH HANGER AFTER COMPLETION OF STAGE 1 STRESSING BEFORE COMMENCING STAGE 2 STRESSING.
4. THE E.O.R. MUST BE NOTIFIED OF THE ACTUAL HANGER FORCE IN EACH HANGER AFTER COMPLETION OF STAGE 2 STRESSING BEFORE REMOVING SHORES.
5. AFTER E.O.R. GRANTS PERMISSION TO REMOVE SHORES, HANGERS MUST BE ADJUSTED TO ACHIEVE FINAL FORCES TABULATED ON SB212. FINAL FORCES IN EACH HANGER SHALL BE REPORTED TO E.O.R. FOR FINAL APPROVAL.
6. HANGER MANUFACTURER SHALL SUBMIT HANGER STRESSING EQUIPMENT FOR REVIEW AND APPROVAL.



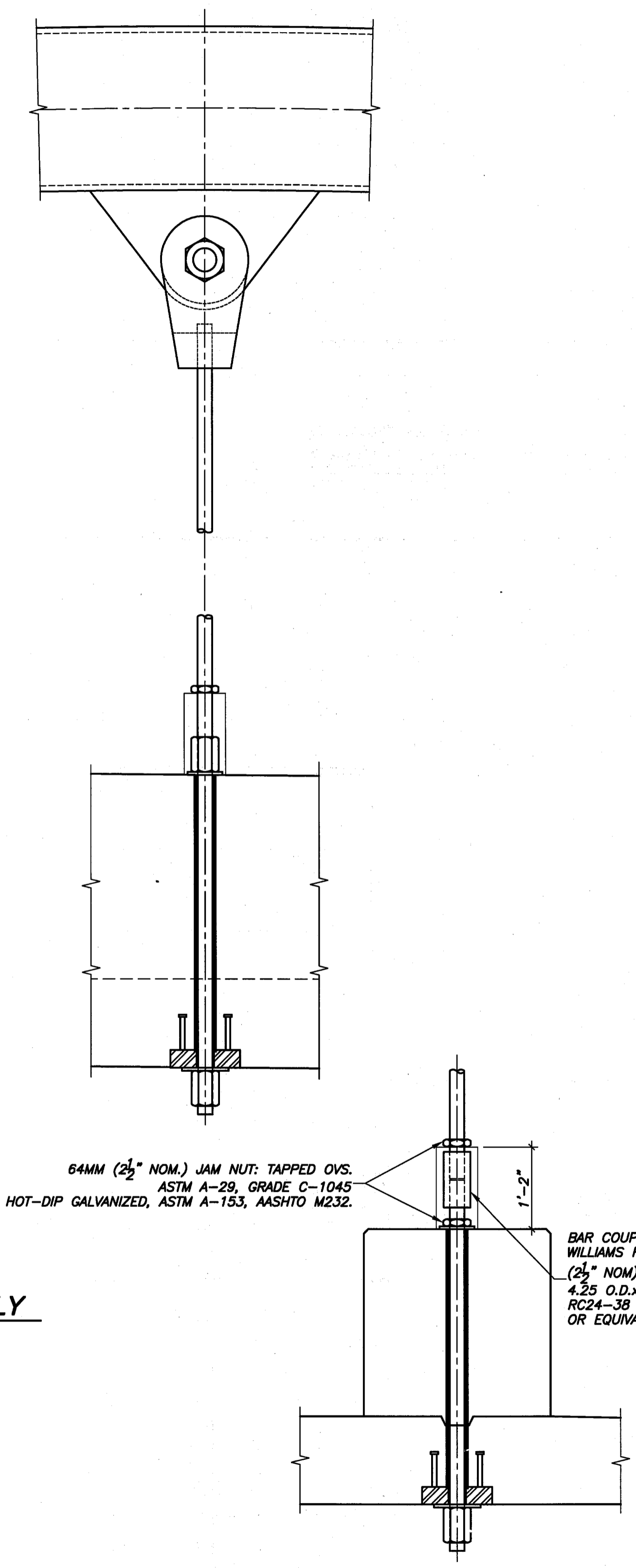
**02 HANGER PLAN**  
N.T.S.



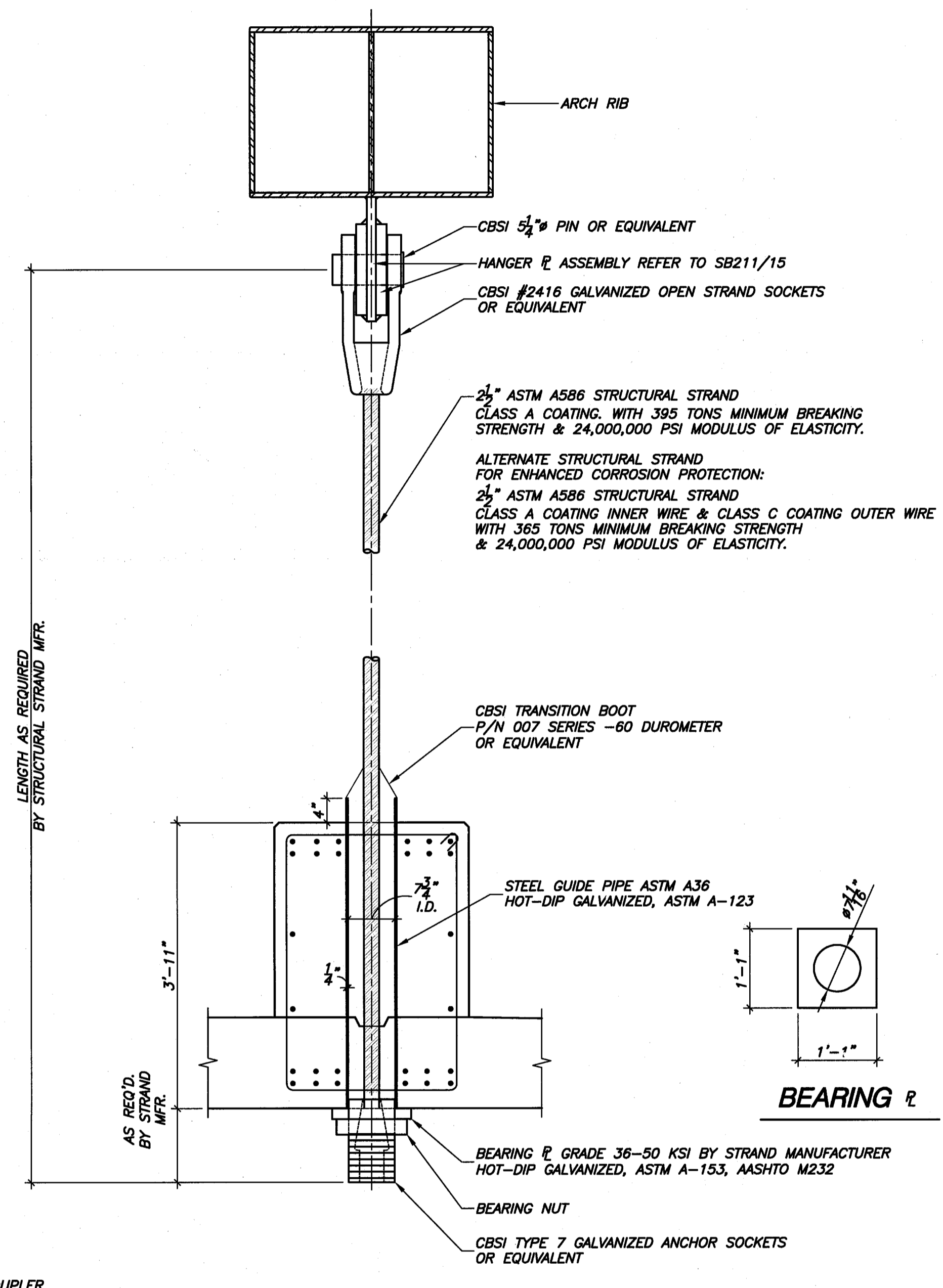
PRELIMINARY-FOR REVIEW ONLY		01/25/09	
NO.	REVISION	BY	DATE
TOWN OF ADDISON DALLAS COUNTY, TEXAS VITRUVIAN PARK BRIDGES PONTE AVE			
<b>ARCH RIB HANGER ELEVATION &amp; HANGER STRESSING PLAN</b>			
<b>VIEWTECH, INC.</b>		4205 Beltway Dr. - Addison, Texas 75001 (972) 661-8187 Fax (972) 661-8172	
PROJECT	DESIGN	DATE	SHEET
2007.144	VL	NOV. 25 2009	SB212



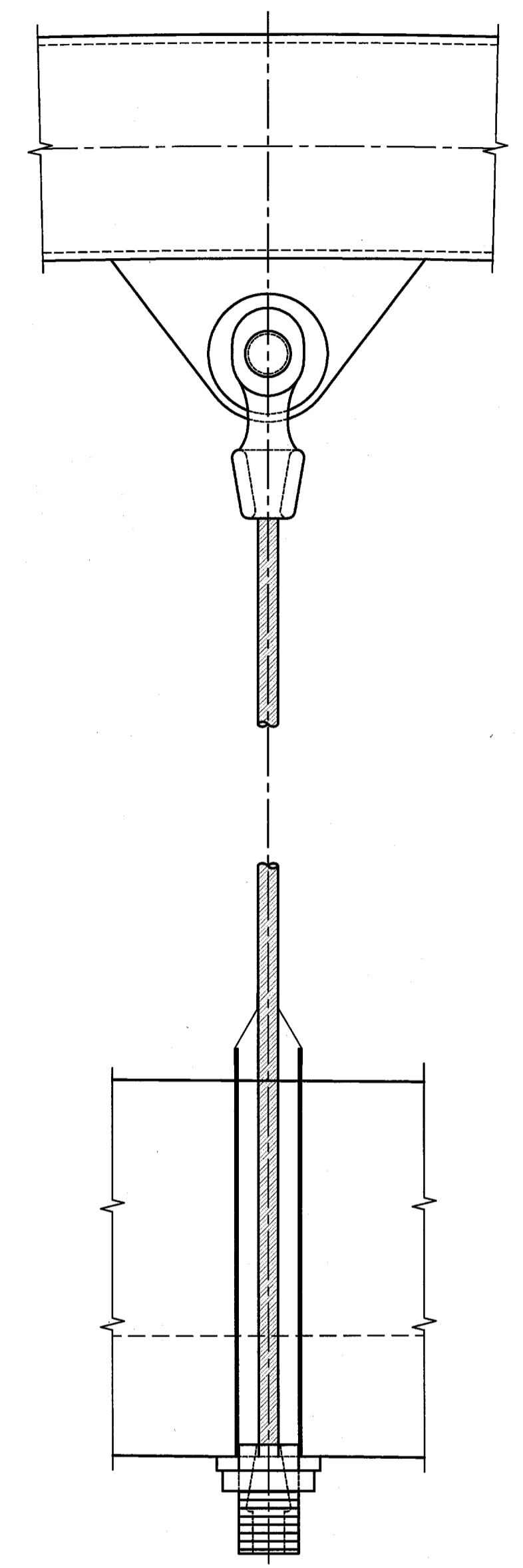
**01 PT-BAR HANGER ASSEMBLY**  
3/4"=1'-0"



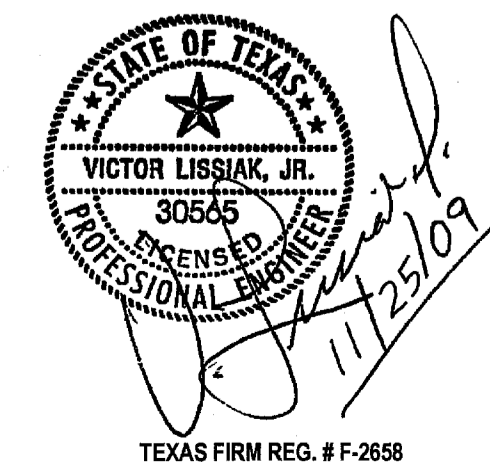
**02 PT-BAR HANGER SPlice DETAIL FOR FUTURE HANGER REPLACEMENT**  
3/4"=1'-0"



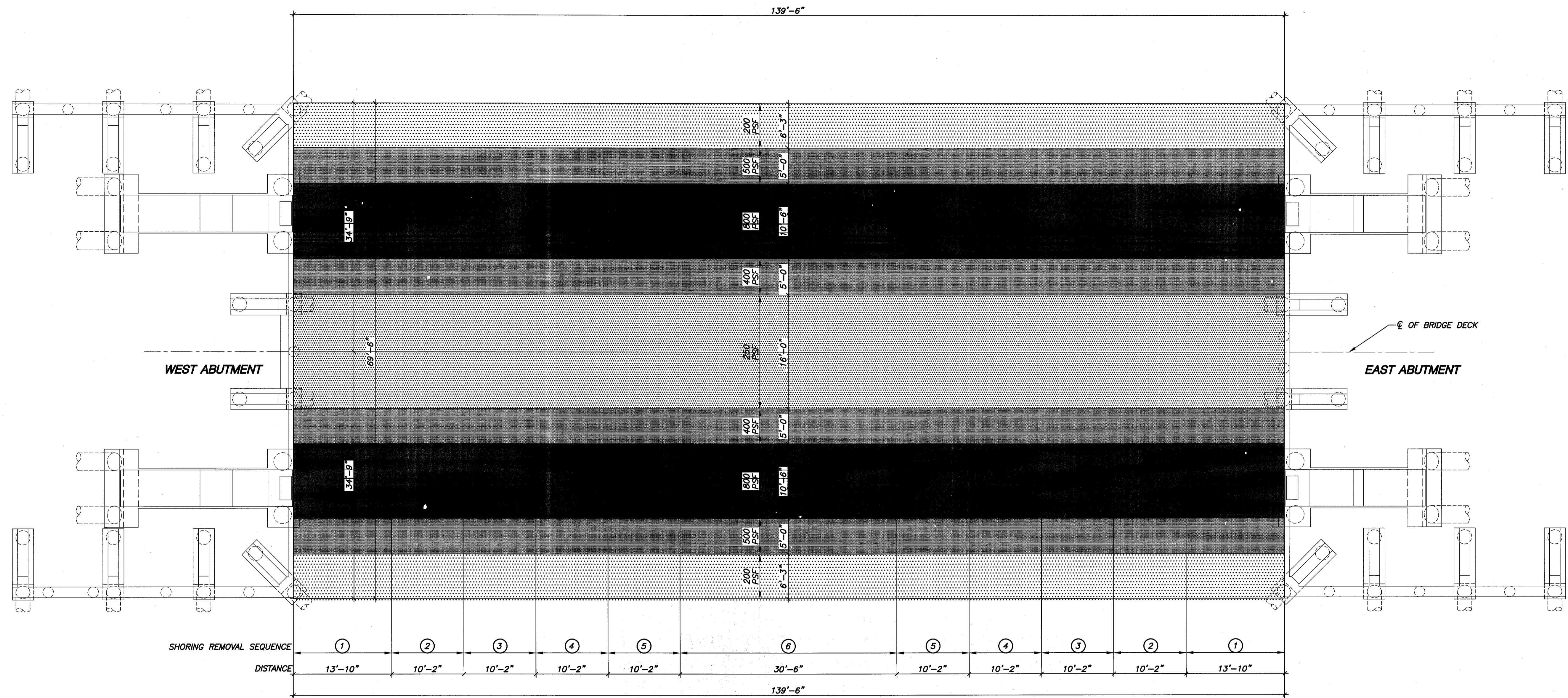
**03 ALTERNATE STRUCTURAL STRAND HANGER ASSEMBLY**  
3/4"=1'-0"



NOTE: REFER TO SB212 FOR HANGER ASSEMBLY LENGTH

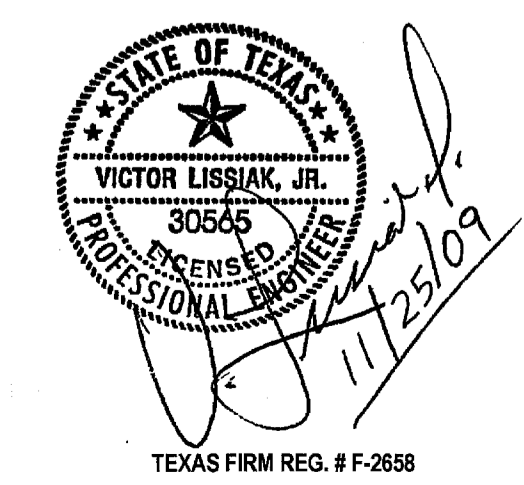


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TOWN OF ADDISON DALLAS COUNTY, TEXAS		
VITRUVIAN PARK BRIDGES PONTE AVE		
<b>HANGER ASSEMBLY</b>		
<b>VIEWTECH, INC.</b> Structural Engineers		4205 Beltway Dr. - Addison, Texas 75001 (972) 661-8187 Fax (972) 661-8172
PROJECT	DESIGN	DRAWN
2007.144	VL	NERF
DATE	FILE	SHEET
NOV. 25 2009	-	SB213



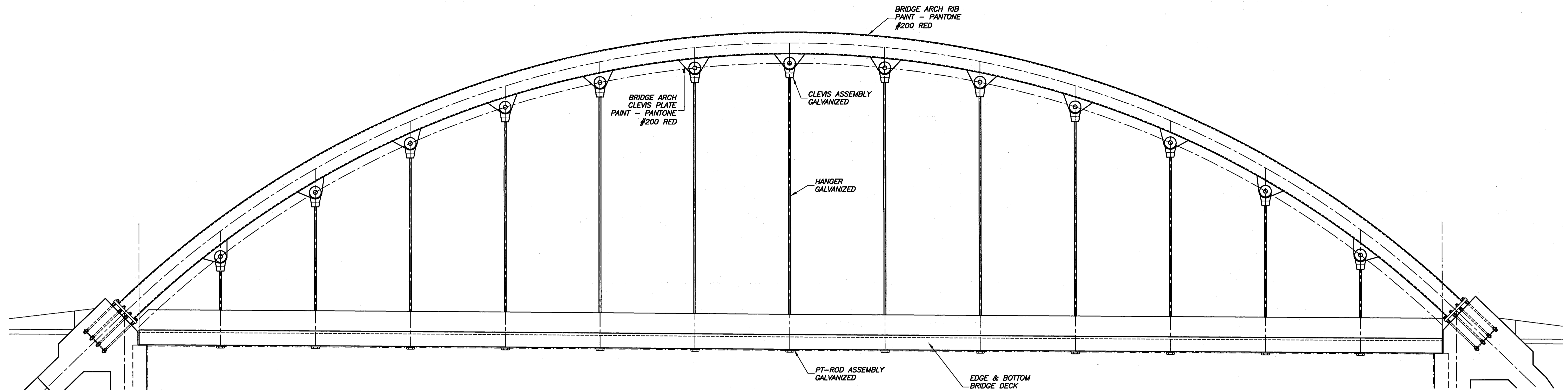
01 TRAFFIC BRIDGE DECK  
LOADING PLAN FOR SHORING  
1/8" = 1'-0"

- PLAN NOTES :
1. CONTRACTOR MUST USE THE LOADING AS SHOWN FOR FORM WORK DESIGN.
  2. DO NOT REMOVE SHORES UNTIL STAGE 2 OF HANGER STRESSING IS COMPLETE. DO NOT ABRUPTLY REMOVE SHORING.
  3. AVOID IMPACT LOADING TO HANGER.
  4. LOAD SHOWN ARE WET WEIGHT OF CONCRETE AND REINFORCING STEEL.

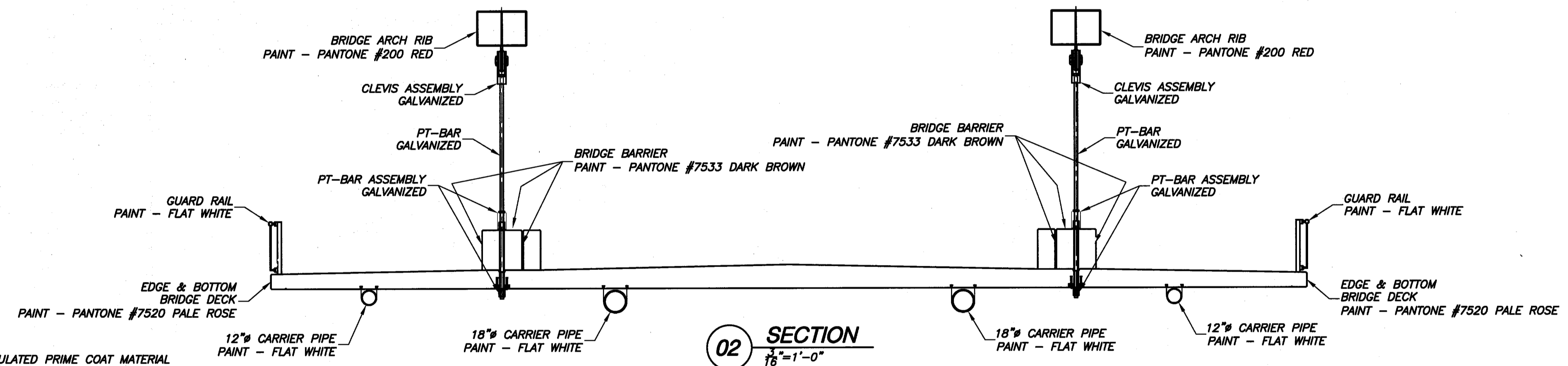


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VITRUVIAN PARK BRIDGES PONTE AVE			
<b>TRAFFIC BRIDGE DECK LOADING PLAN FOR SHORING</b>			
VIEWTECH, INC.		4205 Beltway Dr. - Addison, Texas 75001 (972) 661-8187 Fax (972) 661-8172	
PROJECT	DESIGN	DRAWN	DATE
2007.144	VL	NERF	NOV. 25 2009
FILE	SHEET		
-	SB214		

TEXAS FIRM REG. # F-2658



01 BRIDGE ELEVATION  
 $\frac{3}{16}'' = 1'-0''$



02 SECTION  
 $\frac{3}{16}'' = 1'-0''$

**PAINTING FOR STEEL & CONCRETE**

**PART 1: GENERAL**

1.1 SUMMARY

A. THIS SPECIFICATION IS INTENDED FOR PAINTING STEEL AND CONCRETE SURFACES AS INDICATED ON THE PAINT DRAWINGS.

1.2 REFERENCES

A. STEEL STRUCTURES PAINTING COUNCIL, NATIONAL ASSOCIATION OF CORROSION ENGINEERS (SSPC): STEEL STRUCTURES PAINTING MANUAL, VOLUME 2, SYSTEMS AND SPECIFICATIONS.

1.3 ACCEPTABLE MANUFACTURERS

MATERIALS MANUFACTURED BY THE FOLLOWING MANUFACTURERS LISTED BELOW ARE ACCEPTABLE:

CARBOLINE  
 CORONADO  
 PORTER  
 SHERWIN-WILLIAMS  
 TNEMEC

1.4 SUBMITTALS

A. PRODUCT DATA: SUBMIT MANUFACTURER'S SPECIFICATIONS TO EVIDENCE COMPLIANCE WITH THESE SPECIFICATIONS. INCLUDE LABEL ANALYSIS OF FINISH COATING.

B. SAMPLES: FERROUS METAL: PROVIDE TWO 8" SQUARE SAMPLES OF SOLID METAL FOR EACH COLOR SELECTED. DEFINE PRIME AND FINISH COATS.

C. SUBMIT MANUFACTURER'S INSTALLATION INSTRUCTIONS.

1.5 QUALITY ASSURANCE

A. SINGLE SOURCE RESPONSIBILITY: PROVIDE PRIMER MATERIAL PRODUCED BY THE SAME MANUFACTURER AS THE FINISH COATS. USE ONLY THINNERS RECOMMENDED BY THE MANUFACTURER, AND ONLY WITHIN RECOMMENDED LIMITS.

1.6 JOB CONDITIONS

A. APPLY COATING ONLY WHEN THE TEMPERATURE OF SURFACES TO BE COATED AND SURROUNDING AIR TEMPERATURES ARE ABOVE 45 DEG. F (7 DEG. C), UNLESS OTHERWISE PERMITTED BY MANUFACTURER'S PRINTED INSTRUCTIONS.

B. DO NOT APPLY COATING IN SNOW, RAIN, FOG OR MIST, OR WHEN THE RELATIVE HUMIDITY EXCEEDS 85 PERCENT, OR AT TEMPERATURES LESS THAN 5 DEG. F (3 DEG. C) ABOVE THE DEW POINT, OR TO DAMP OR WET SURFACES UNLESS OTHERWISE PERMITTED BY MANUFACTURER'S PRINTED INSTRUCTION. ALLOW WET SURFACES TO DRY THOROUGHLY AND ATTAIN THE TEMPERATURE AND CONDITIONS SPECIFIED BEFORE PROCEEDING WITH OR CONTINUING THE COATING OPERATION.

**PART 2: PRODUCTS**

2.1 MATERIALS

A. 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

B. 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: "RECOATABLE EPOXY PRIMER", B67 SERIES  
 TNEMEC: SERIES 66 "HI-BUILD EPOXOLINE"

C. 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

D. COLOR OF TOPCOAT: AS SPECIFIED ON DRAWINGS.

**PART 3: EXECUTION**

3.1 EXAMINATION

A. EXAMINE SUBSTRATE SURFACES TO RECEIVE SPECIAL COATINGS SYSTEM. STARTING WORK WITHIN A PARTICULAR AREA WILL BE CONSTRUED AS APPLICATOR'S ACCEPTANCE OF SURFACE CONDITIONS.

3.2 PREPARATION

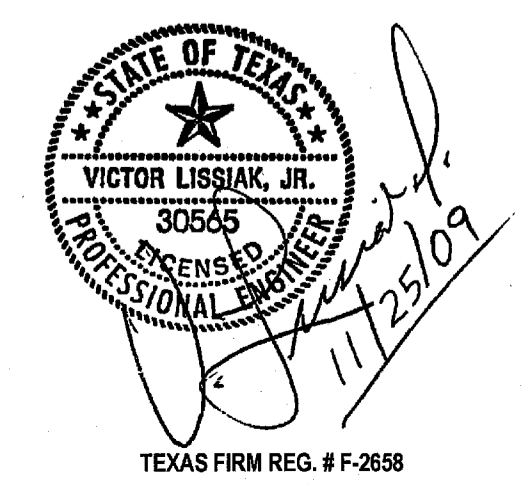
A. REMOVE GREASE AND OIL BY SOLVENT CLEANING AS RECOMMENDED BY THE COATING MANUFACTURER AND IN ACCORDANCE WITH THE SSPC SP1.

B. SURFACES SHALL RECEIVE A COMMERCIAL BLAST CLEANING AS RECOMMENDED BY THE COATING SYSTEM MANUFACTURER AND IN ACCORDANCE WITH THE REQUIREMENTS OF SSPC SPECIFICATION SSPC SP6 AND SSPC -SP-COM.

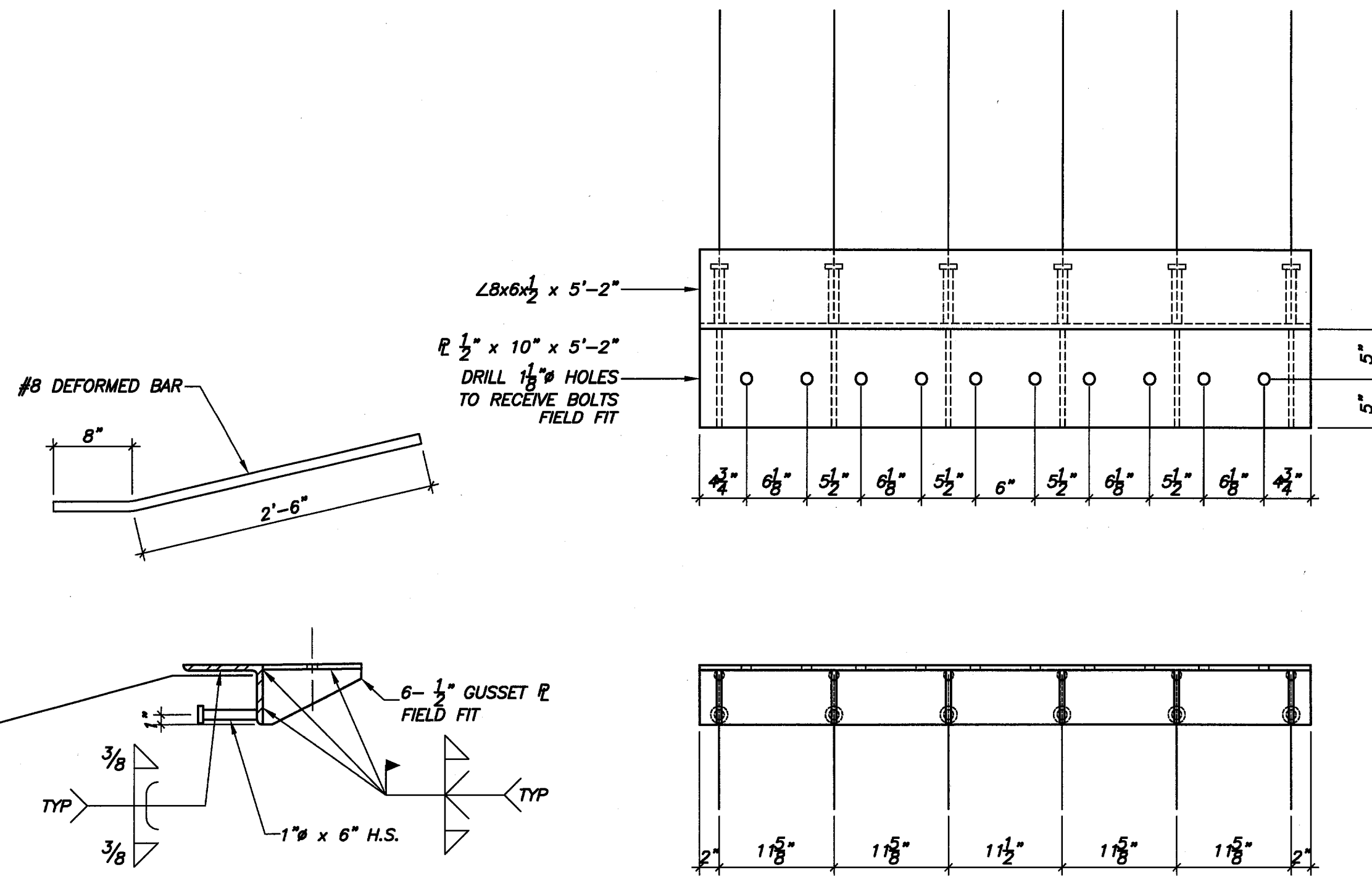
3.3 PROTECTION

A. PROTECT WORK OF OTHER TRADES, WHETHER TO BE COATED OR NOT, AGAINST DAMAGE FROM COATING. CORRECT DAMAGE BY CLEANING, REPAIRING, REPLACING AND RE-COATING.

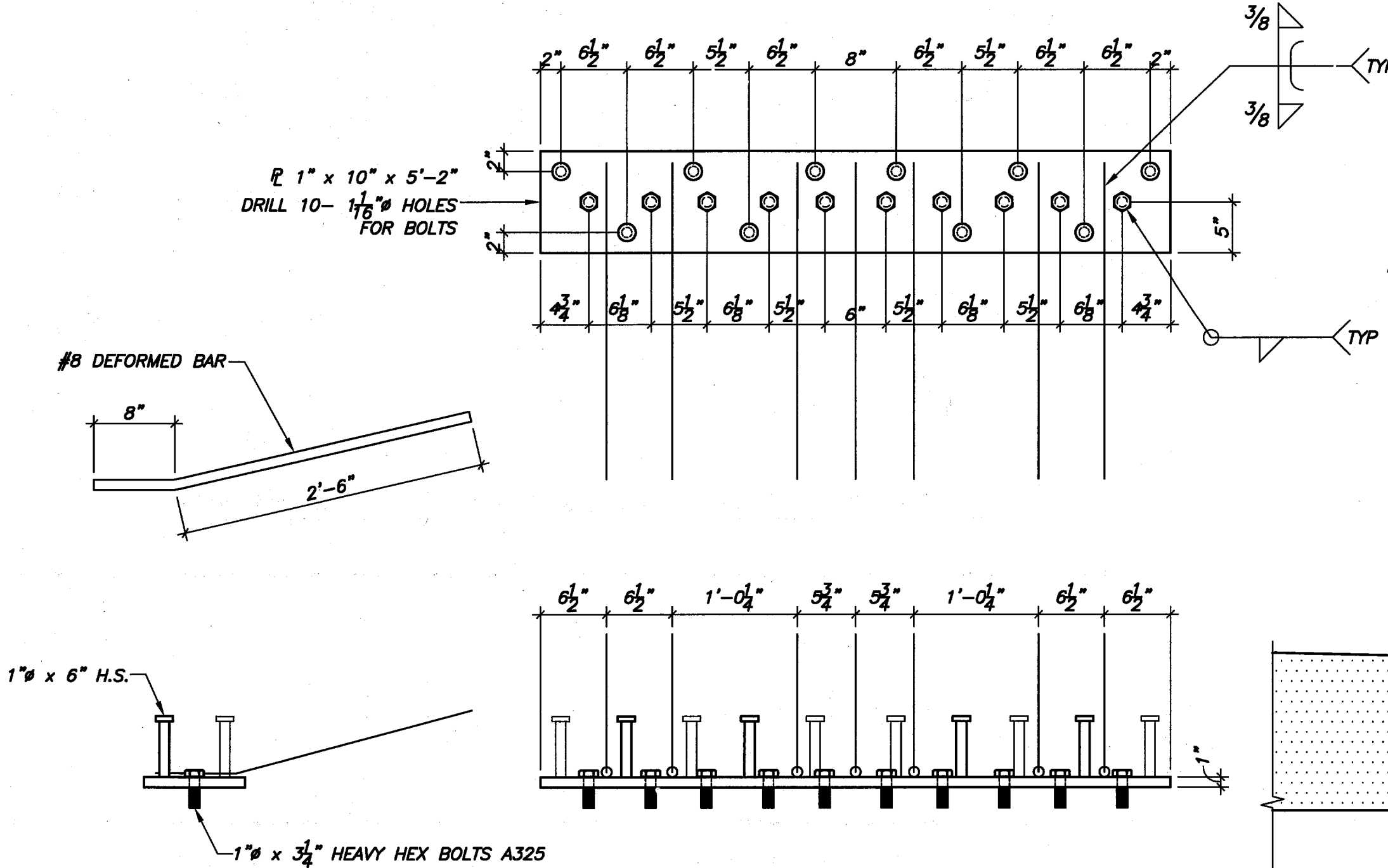
<b>PANTONE #200 RED:</b>	<b>PANTONE #7520 PALE ROSE:</b>	<b>PANTONE #7533 DARK BROWN:</b>
C: 20	C: 7	C: 54
M: 85	M: 25	M: 63
Y: 53	Y: 22	Y: 75
K: 4	K: 0	K: 56
R: 193	R: 234	R: 74
G: 73	G: 195	G: 60
B: 93	B: 184	B: 49



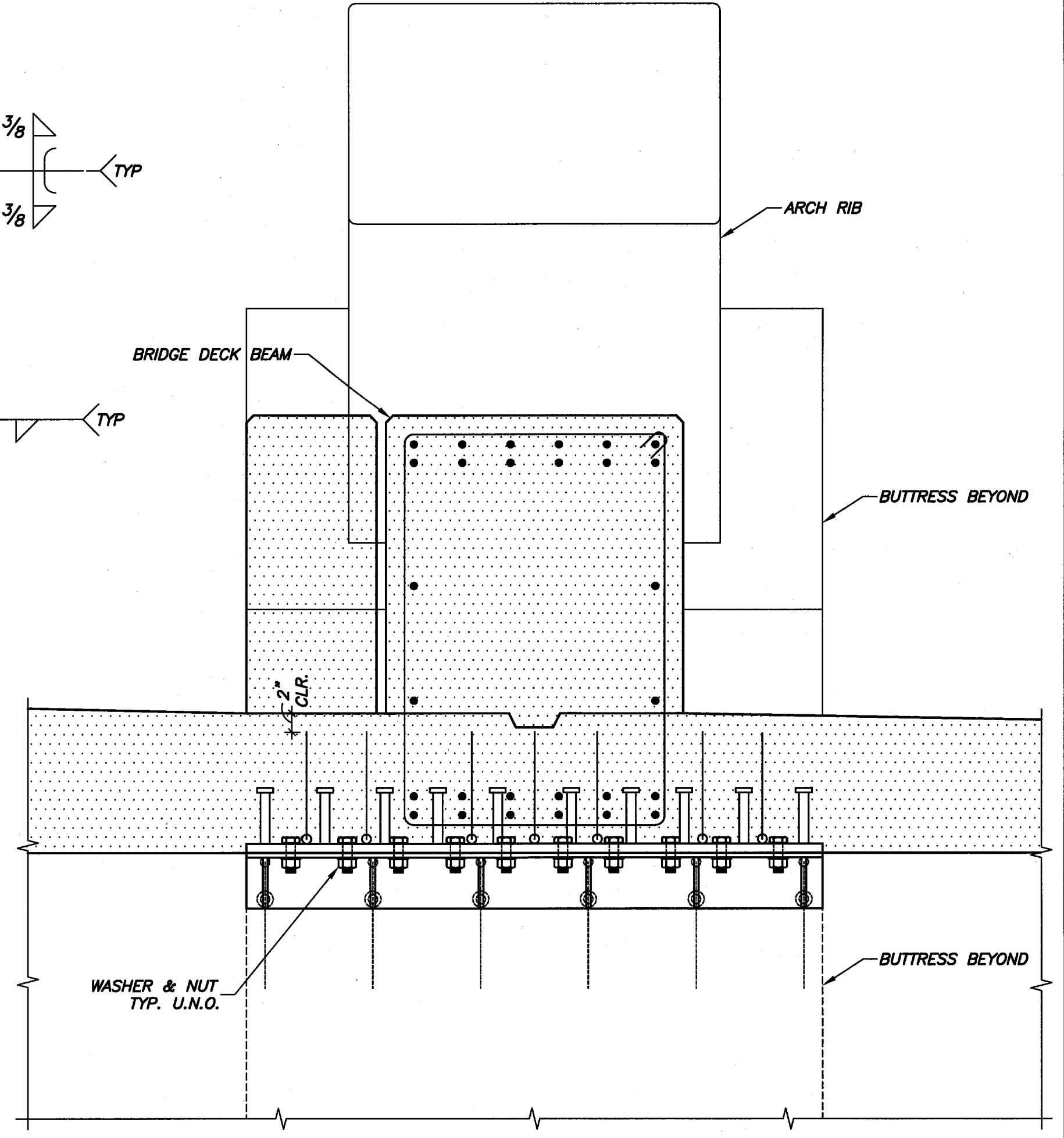
PRELIMINARY-FOR REVIEW ONLY						01/25/09
NO.	REVISION				BY	DATE
TOWN OF ADDISON DALLAS COUNTY, TEXAS						
VITRUVIAN PARK BRIDGES PONTE AVE						
<b>BRIDGE ELEVATION PAINTING SCHEME</b>						
<b>VIEWTECH, INC.</b> Structural Engineers						4205 Beltway Dr. - Addison, Texas 75001 (972) 661-8187 Fax (972) 661-8172
PROJECT	DESIGN	DRAWN	DATE	FILE	SHEET	
2007.144	VL	NERF	NOV. 25 2009	-	SB215	



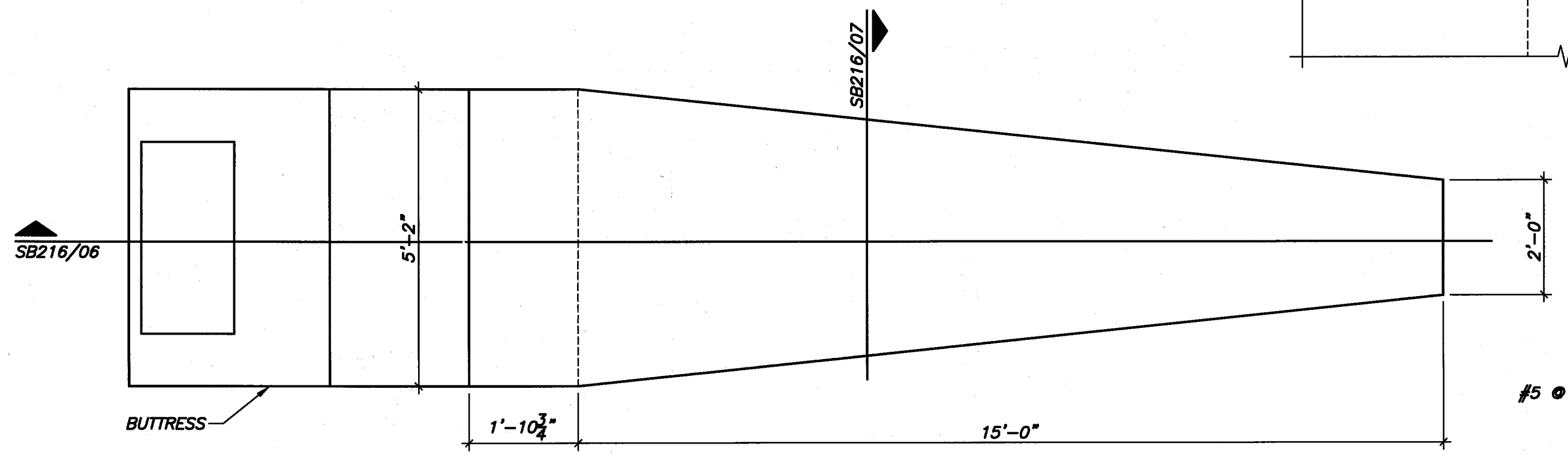
**01 BRIDGE BUTTRESS  
FIXED CONN. EMBED DETAIL**  
1"=1'-0"



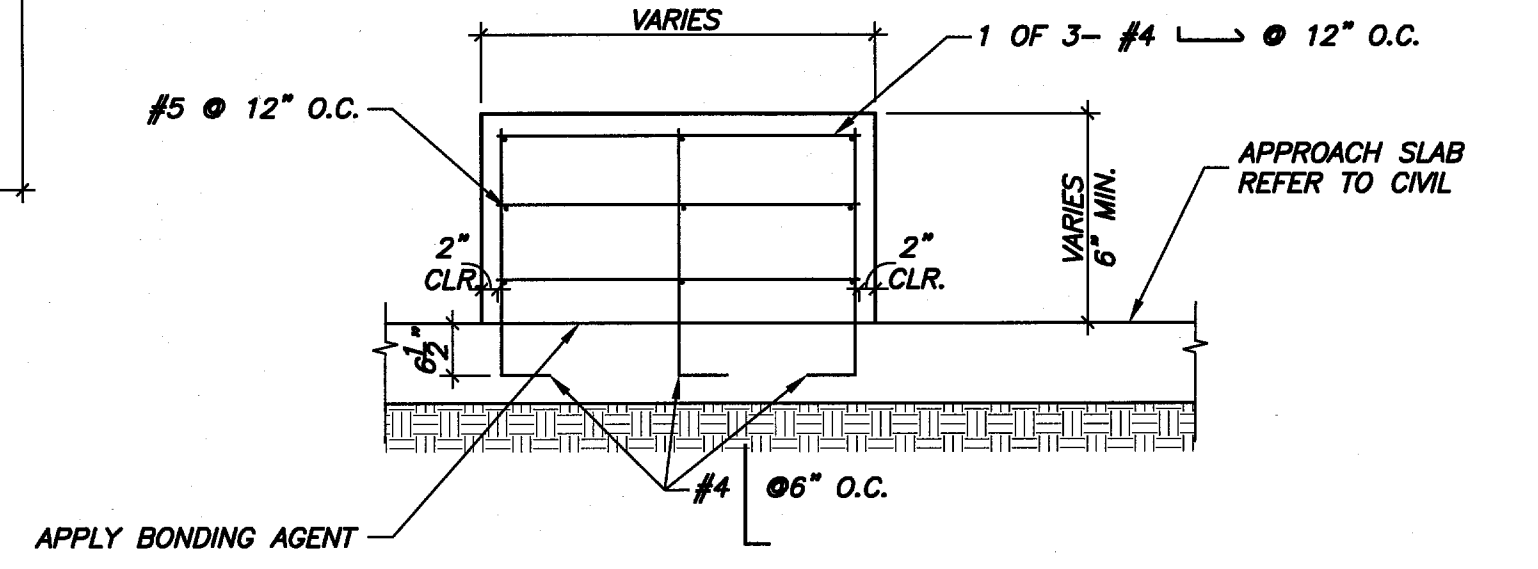
**02 BRIDGE DECK EMBED DETAIL**  
1"=1'-0"



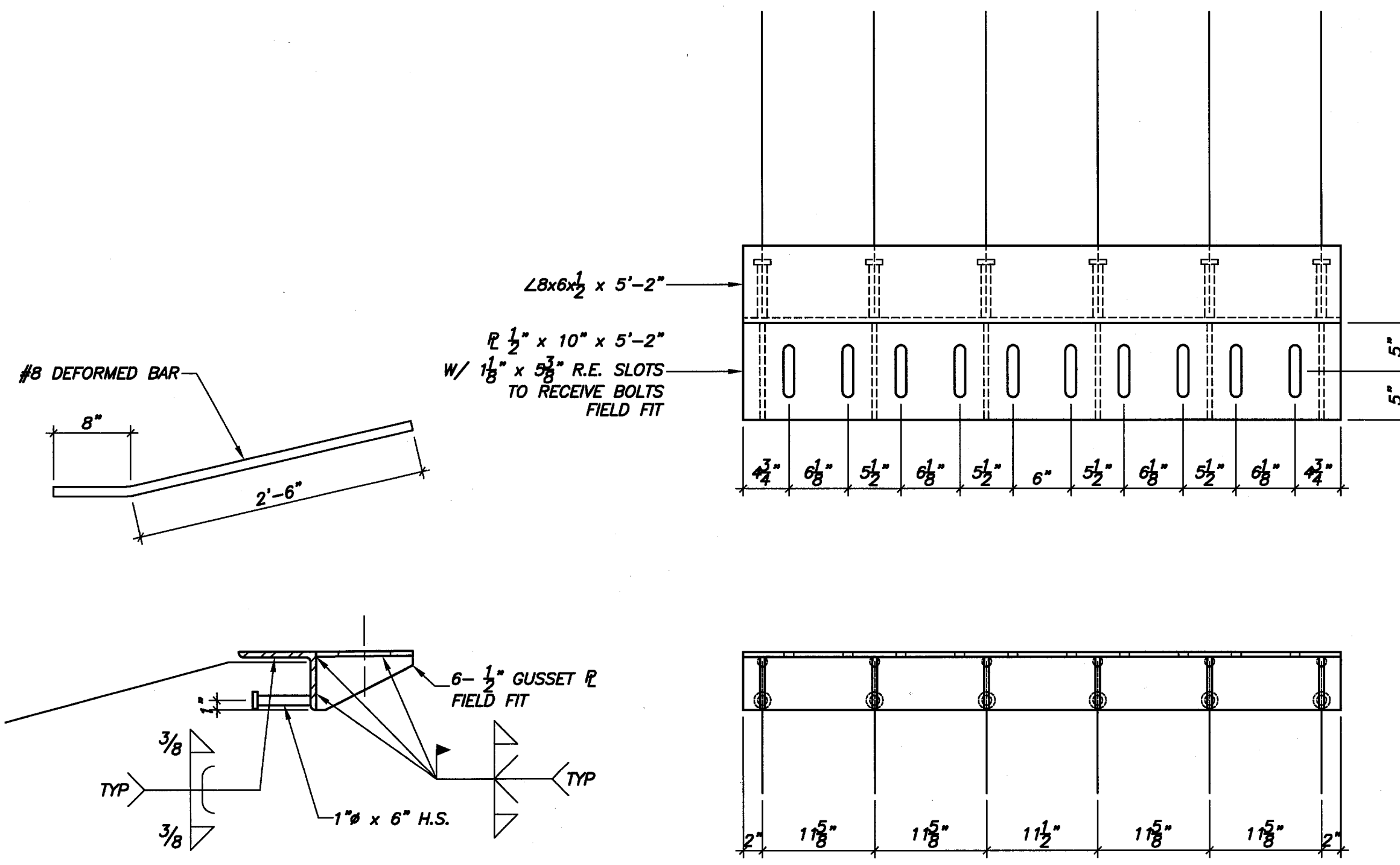
**04 DETAIL**  
1"=1'-0"



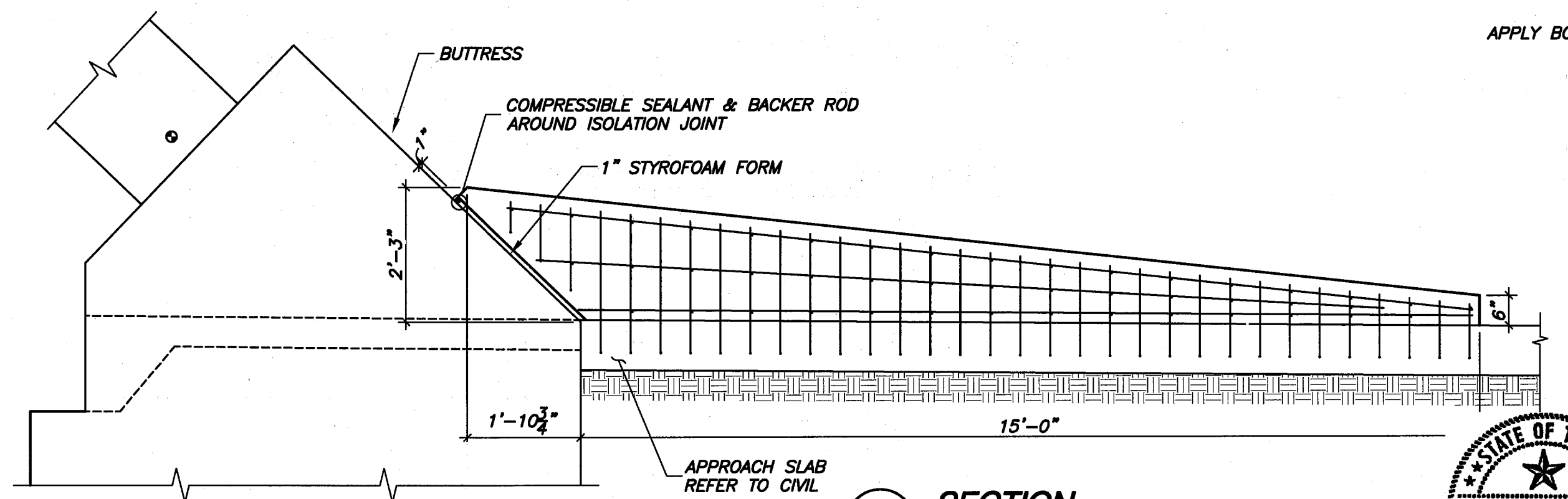
**05 BUTTRESS END TREATMENT**  
1/2"=1'-0"



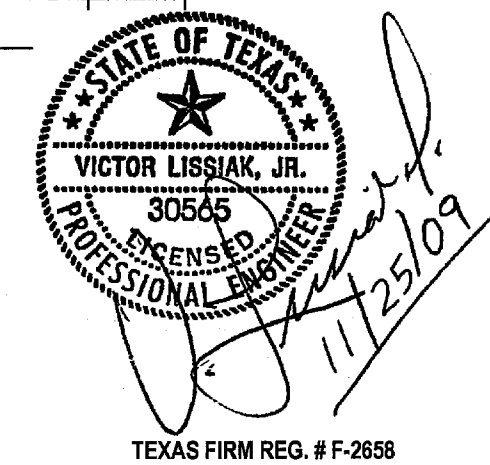
**07 SECTION**  
1/2"=1'-0"



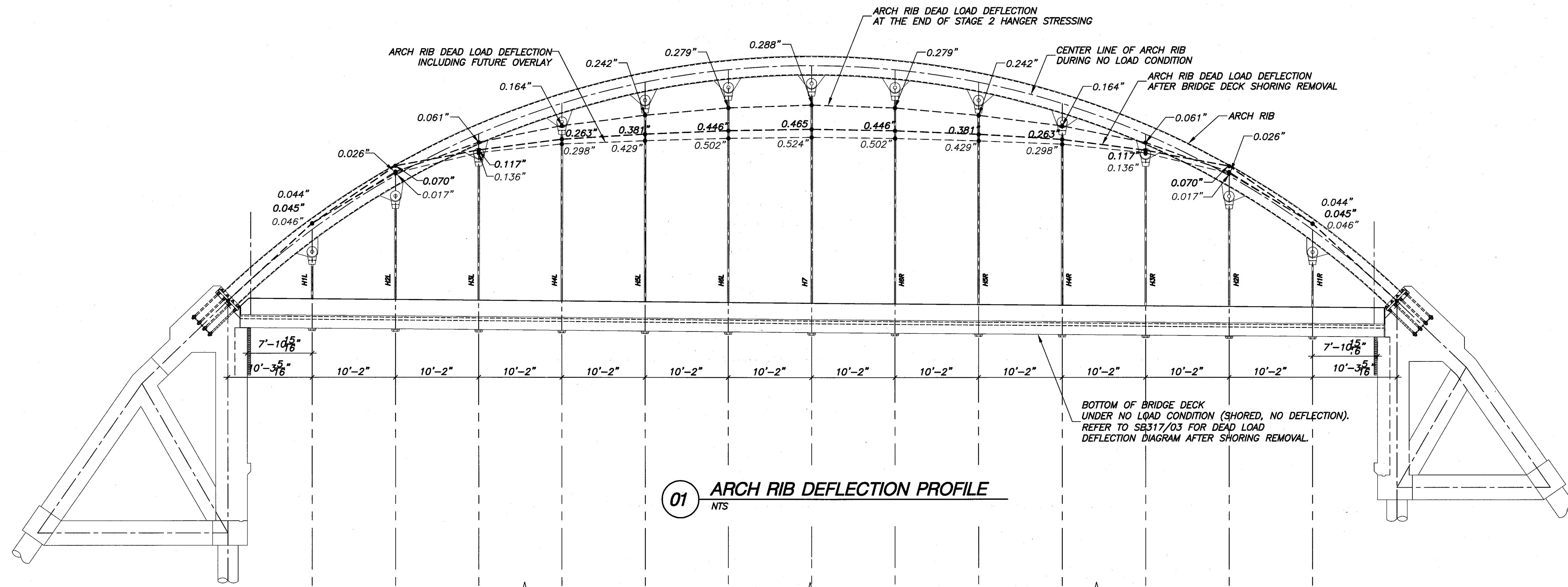
**03 BRIDGE BUTTRESS  
SLIP CONN. EMBED DETAIL**  
1"=1'-0"



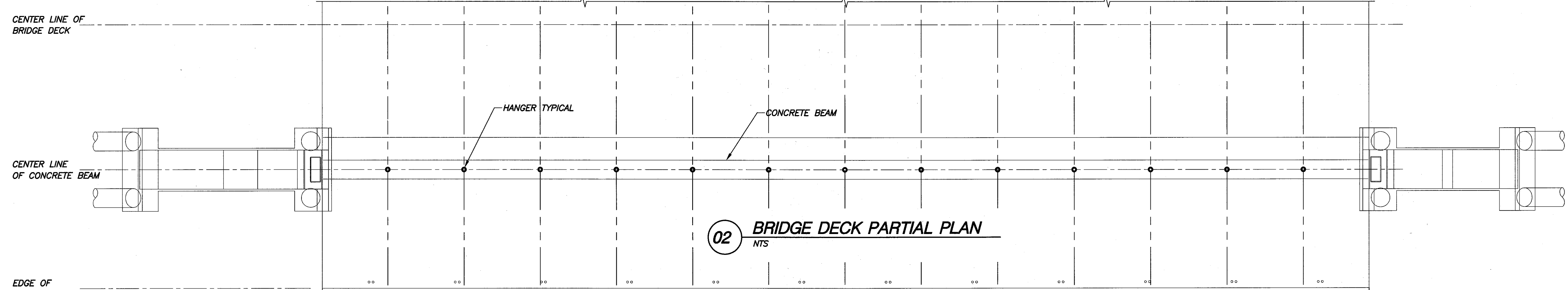
**06 SECTION**  
1/2"=1'-0"



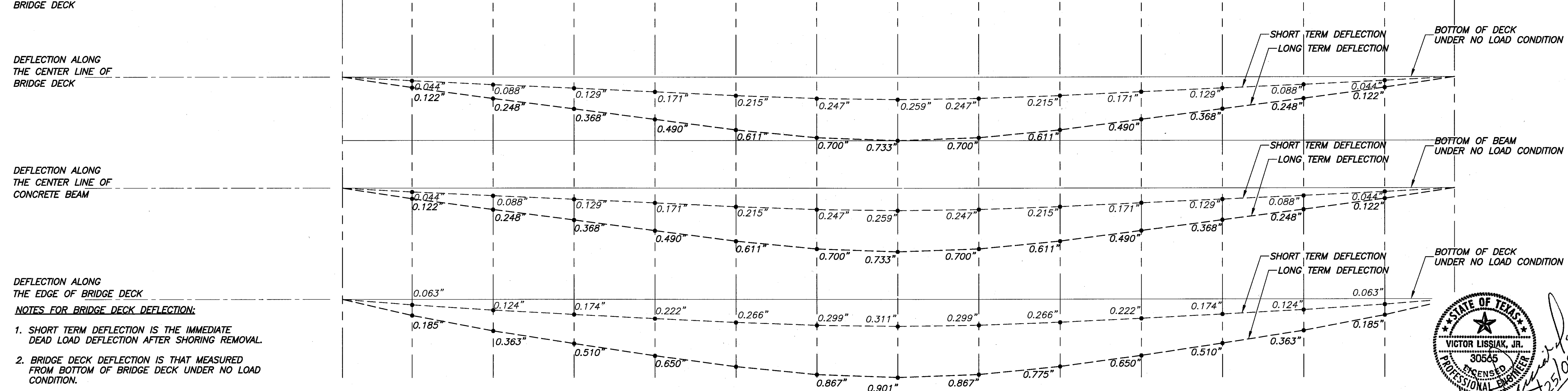
PRELIMINARY-FOR REVIEW ONLY		01/25/09	
NO.	REVISION	BY	DATE
TOWN OF ADDISON DALLAS COUNTY, TEXAS			
VITRUVIAN PARK BRIDGES PONTE AVE			
<b>SECTIONS &amp; DETAILS</b>			
VIEWTECH, INC.		4205 Beltway Dr. - Addison, Texas 75001	
Structural Engineers		(972) 661-8187 Fax (972) 661-8172	
PROJECT	DESIGN	DRAWN	DATE
2007.144	VL	NERF	NOV. 25 2009
FILE			SHEET
-			SB216



01 ARCH RIB DEFLECTION PROFILE  
NTS

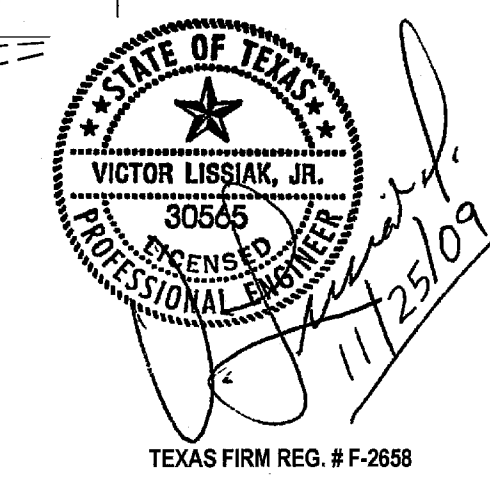


02 BRIDGE DECK PARTIAL PLAN  
NTS



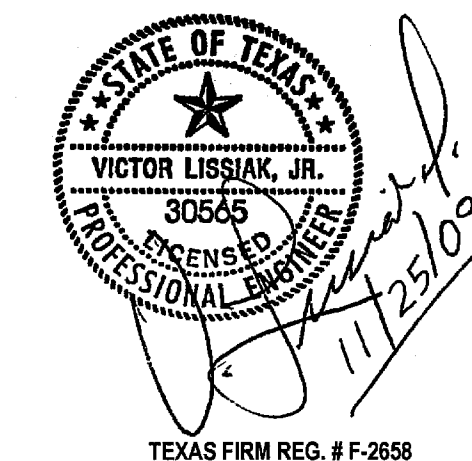
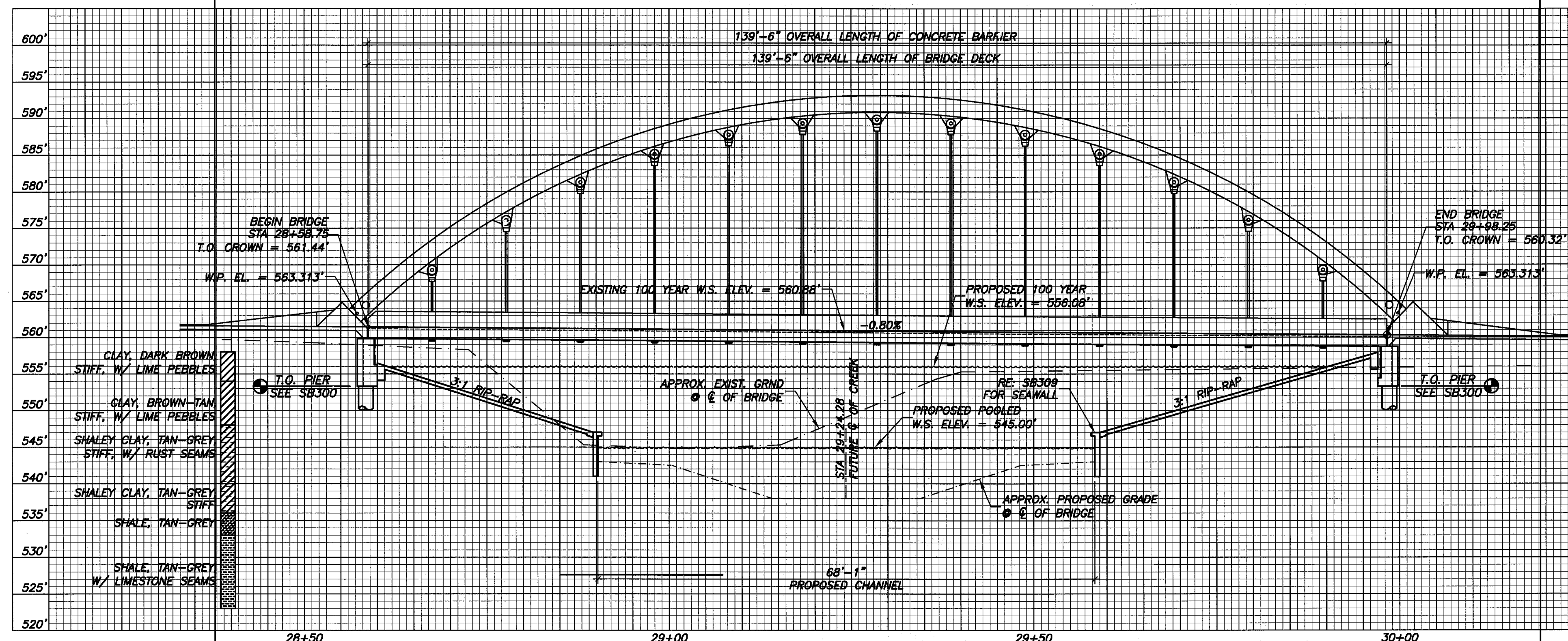
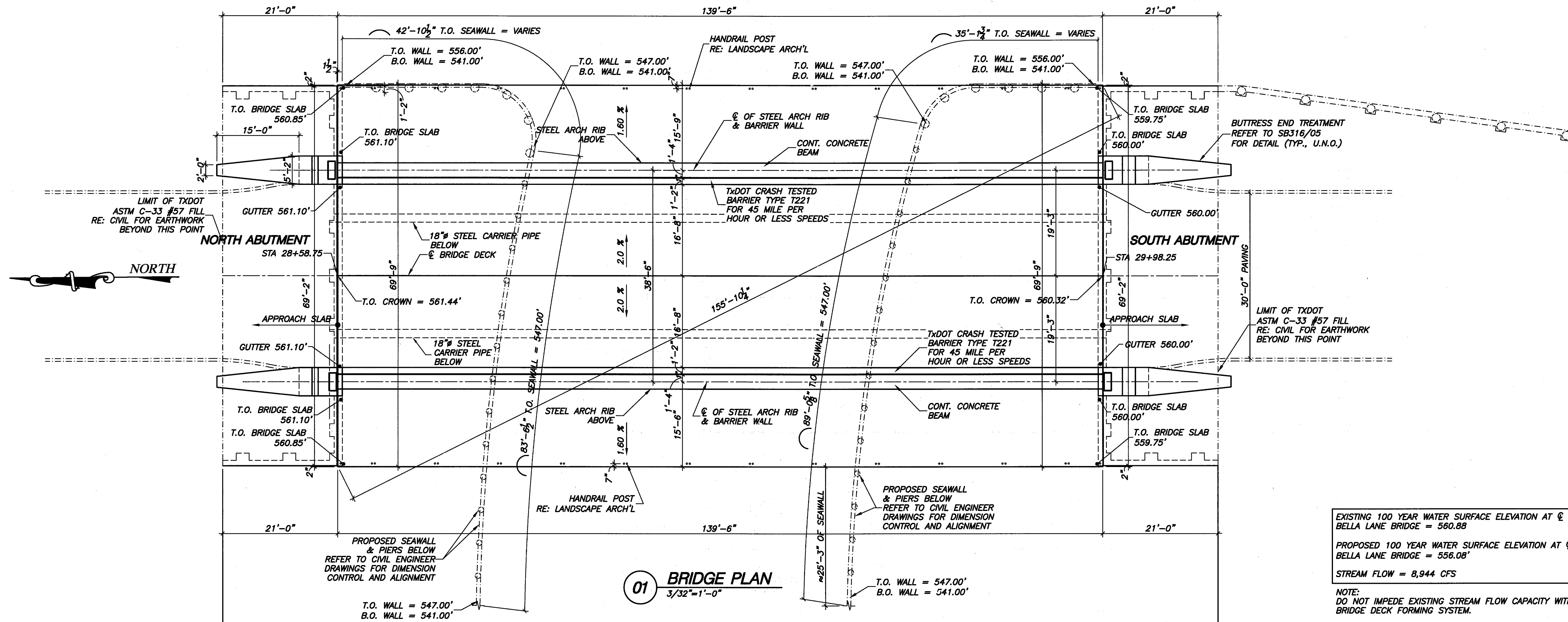
03 BRIDGE DECK DEAD LOAD DEFLECTION PROFILE  
NTS

- DEFLECTION ALONG THE CENTER LINE OF BRIDGE DECK
- DEFLECTION ALONG THE CENTER LINE OF CONCRETE BEAM
- DEFLECTION ALONG THE EDGE OF BRIDGE DECK
- NOTES FOR BRIDGE DECK DEFLECTION:
1. SHORT TERM DEFLECTION IS THE IMMEDIATE DEAD LOAD DEFLECTION AFTER SHORING REMOVAL.
  2. BRIDGE DECK DEFLECTION IS THAT MEASURED FROM BOTTOM OF BRIDGE DECK UNDER NO LOAD CONDITION.
  3. LONG TERM DEFLECTION IS THE TIME DEPENDENT INCREASE IN DEAD LOAD DEFLECTION DUE TO CREEP OF CONCRETE AND WEIGHT OF FUTURE OVERLAY.
  4. DEFLECTED SHAPE EXAGGERATED FOR ILLUSTRATIVE PURPOSES.

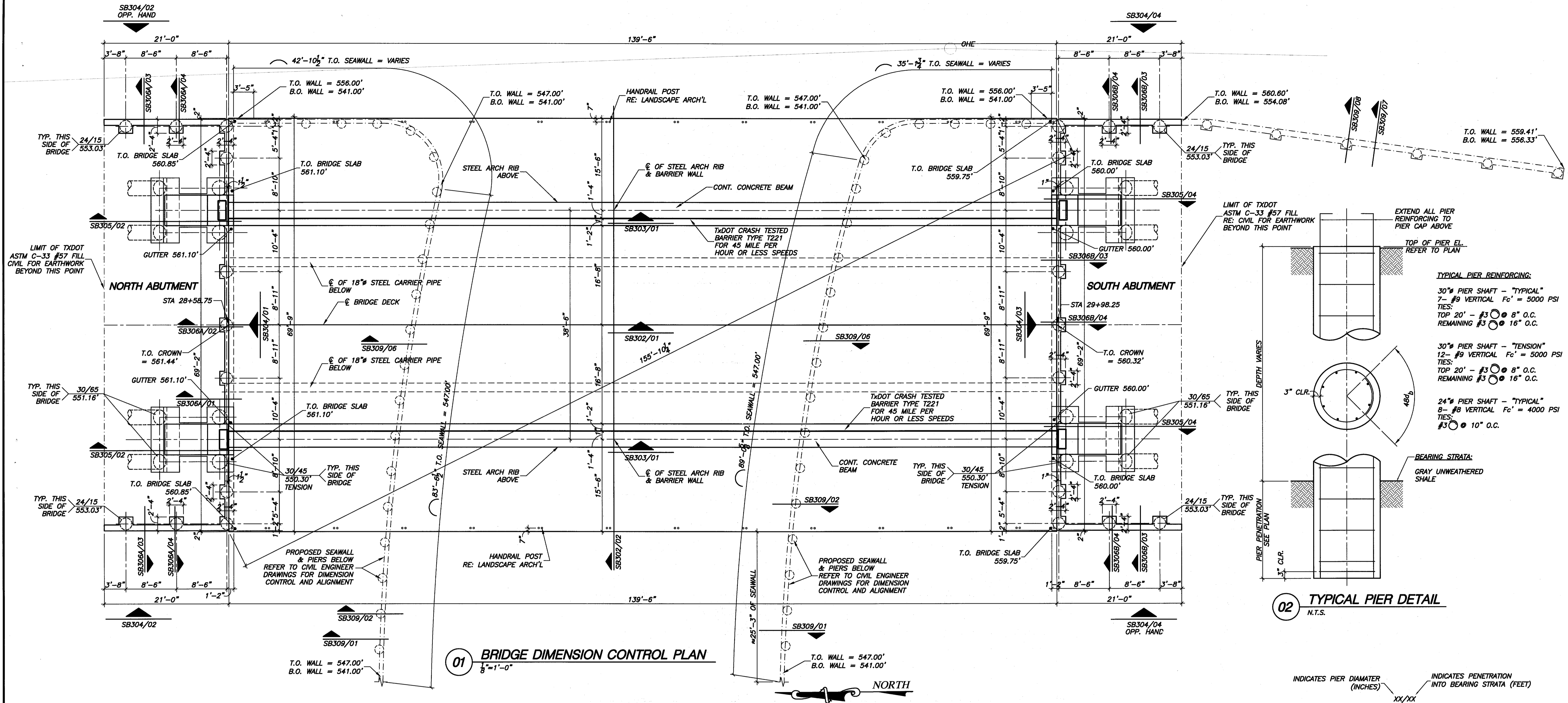


PRELIMINARY-FOR REVIEW ONLY		01/25/09	
NO.	REVISION	BY	DATE
<b>TOWN OF ADDISON</b> DALLAS COUNTY, TEXAS			
<b>VITRUVIAN PARK BRIDGES</b> PONTE AVE			
<b>ARCH RIB AND BRIDGE DECK</b> <b>DEFLECTION PROFILE</b>			
<b>VIEWTECH, INC.</b> Structural Engineers		4205 Beltway Dr. - Addison, Texas 75001 (972) 661-8187 Fax (972) 661-8172	
PROJECT	DESIGN	DATE	FILE
2007.144	VL	NOV. 25 2009	-
			SHEET
			SB217

TEXAS FIRM REG. # F-2658

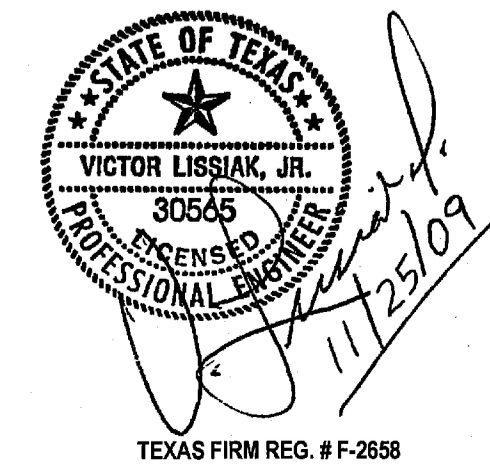


PRELIMINARY-FOR REVIEW ONLY		01/25/09
NO.	REVISION	BY DATE
TOWN OF ADDISON DALLAS COUNTY, TEXAS		
VITRUVIAN PARK BRIDGES BELLA LANE		
<b>BRIDGE LAYOUT PLAN</b>		
<b>VIEWTECH, INC.</b> Structural Engineers		4205 Beltway Dr. - Addison, Texas 75001 (972) 661-8187 Fax (972) 661-8172
PROJECT	DESIGN	DATE
2007.144	VL	NOV. 25 2009
DRAWN	DATE	FILE
NERF		
SHEET		SHEET
		SB300 A



**TABLE OF ESTIMATED QUANTITIES**

	BRIDGE DECK	BARRIER WALL	BRIDGE ABUTMENT	BUTTRESS END TREATMENT	ABUTMENT WALL EXTENSION	LAKE EDGE WALL	RIPRAP SLOPE PROTECTION
CU.YD. OF REINF. CONC.	533	32	212	12	14	55	100
L.F. OF REINF. CONC. PIER	805	770	1,164				
	NORTH	SOUTH	TOTAL				
CU.YD. OF ASTM C-33 #57 BACKFILL MATERIAL	80	185	265				

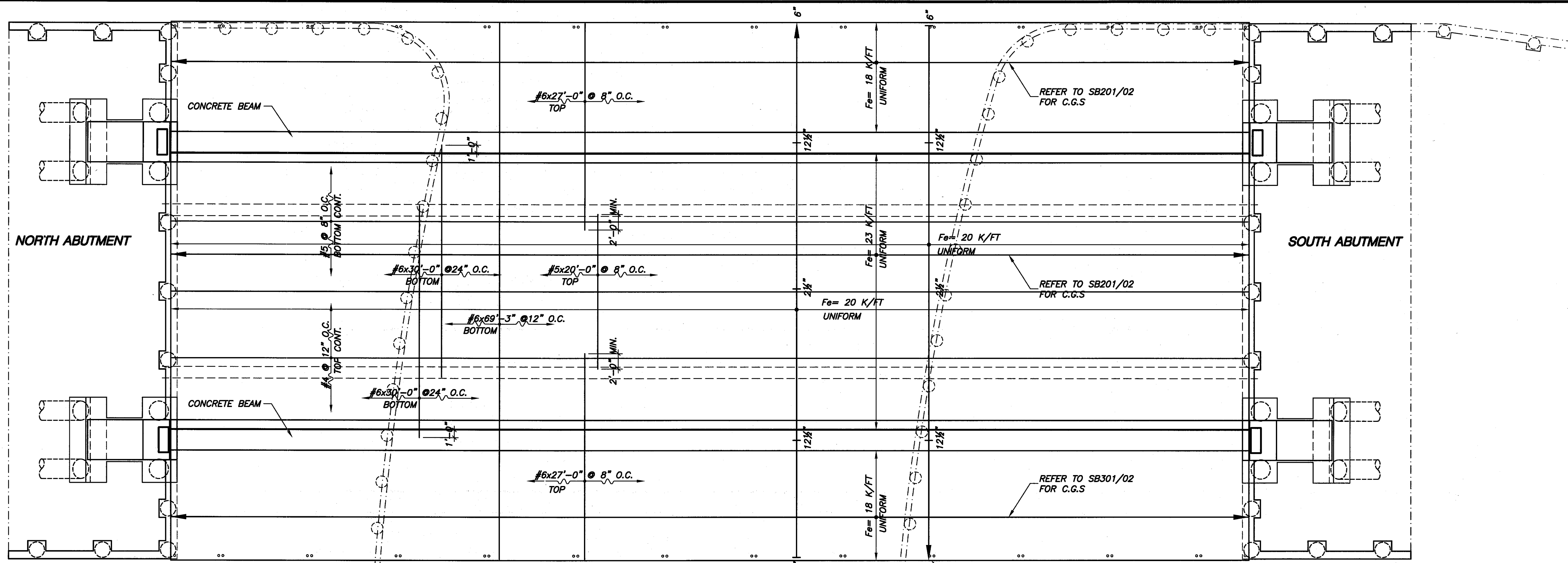


PRELIMINARY—FOR REVIEW ONLY		01/25/09
NO.	REVISION	BY DATE
<b>TOWN OF ADDISON</b> DALLAS COUNTY, TEXAS		
<b>VITRUVIAN PARK BRIDGES</b> BELLA LANE		
<b>BRIDGE DIMENSION CONTROL PLAN</b>		
<b>VIEWTECH, INC.</b> Structural Engineers		4205 Beltway Dr. - Addison, Texas 75001 (972) 661-8187 Fax (972) 661-8172
PROJECT	DESIGN	FILE
2007.144	VL	NERF
DATE	NOV. 25 2009	SHEET
		<b>SB300 B</b>

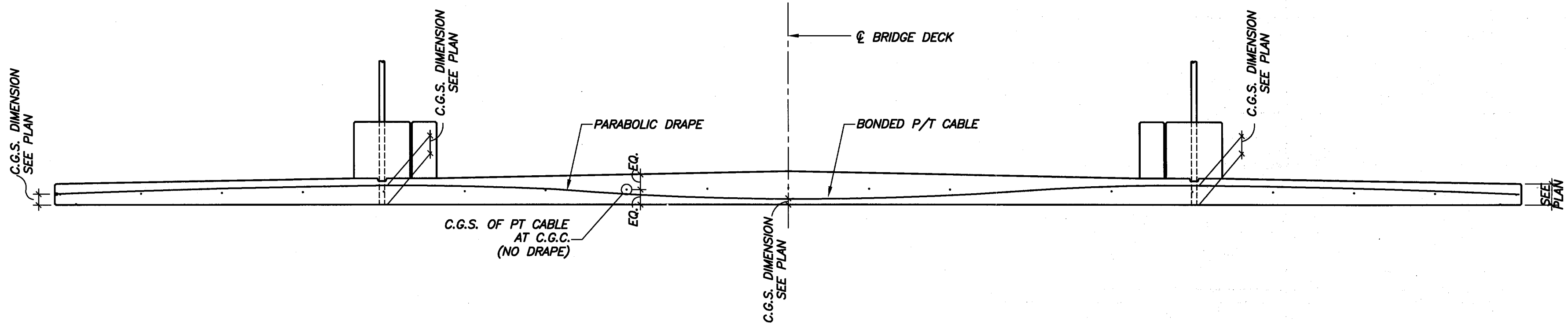


**PLAN NOTES:**

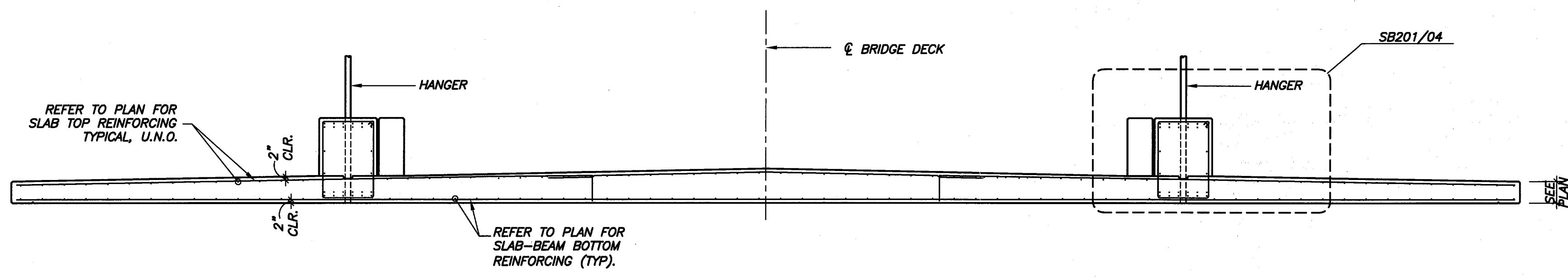
1. ALL POST-TENSIONING FORCES ARE EFFECTIVE.
2.  $3'' \rightarrow 1''$  REFER TO SB201/02 FOR CABLE DRAPE PROFILES.
3.  $\text{---}$  INDICATES CABLE DEAD END.
4.  $\text{---}$  INDICATES CABLE STRESSING END.
5. ALL CABLES NOTED AS UNIFORM SHALL BE GROUPED AND SPACED TO PROVIDE THE EFFECTIVE FORCE INDICATED PER LINEAL FOOT OF SLAB.



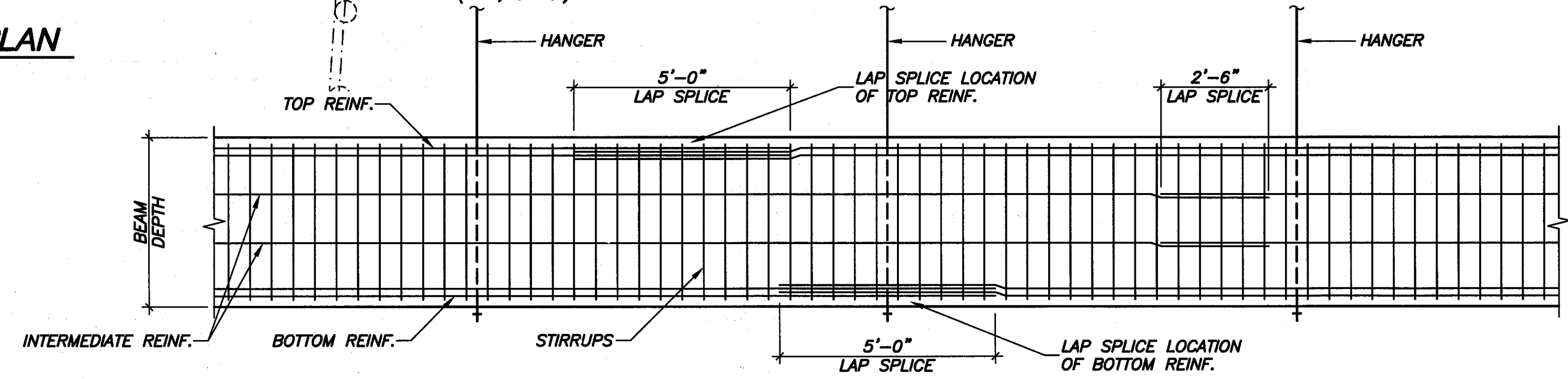
**01 TRAFFIC BRIDGE MILD STEEL & PT CABLE PLAN**  
 $\frac{1}{8}'' = 1'-0''$   
 NORTH



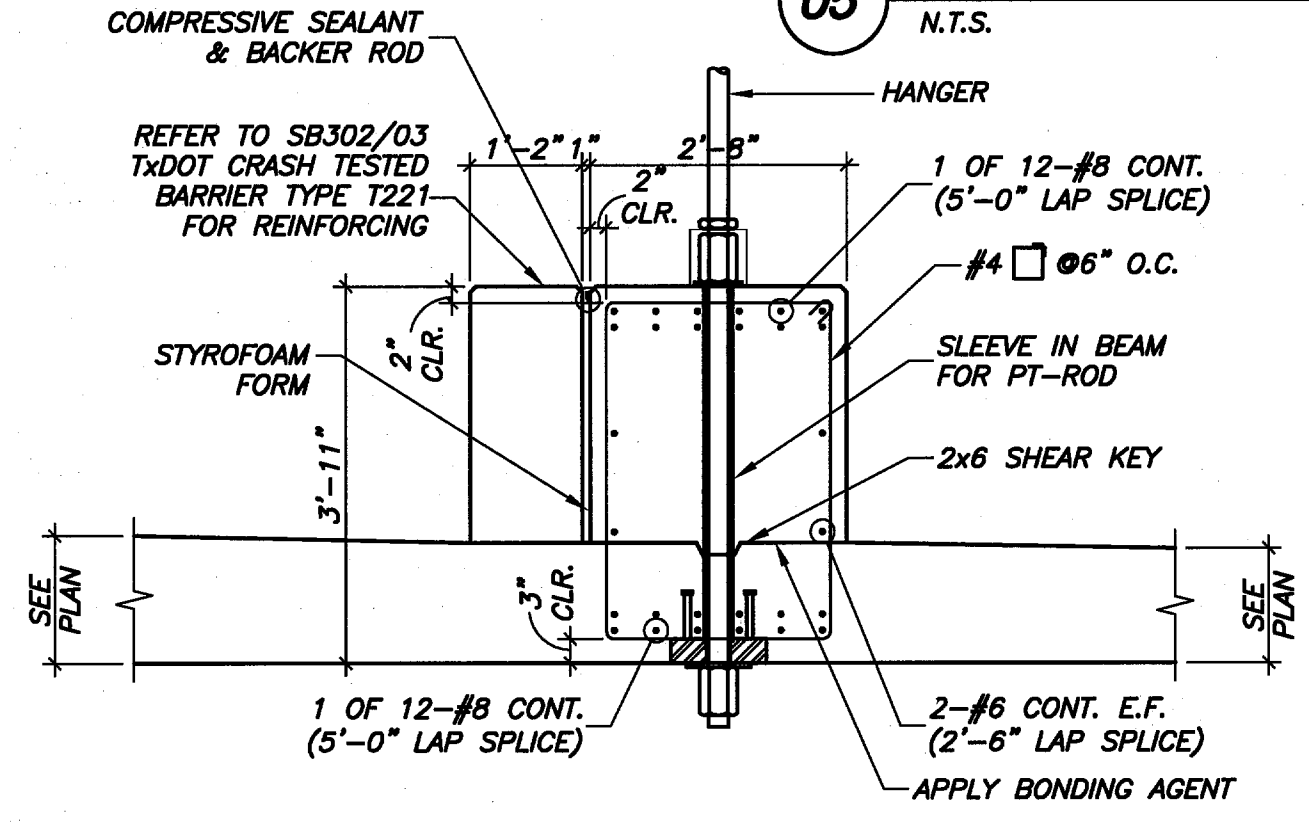
**02 POST-TENSIONED CABLE PROFILE**  
 N.T.S.



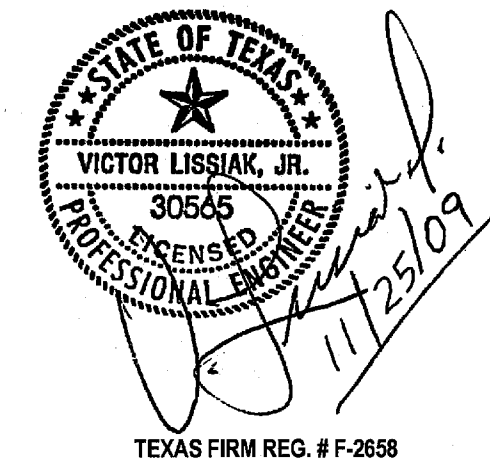
**03 MILD STEEL REINFORCING PROFILE**  
 N.T.S.



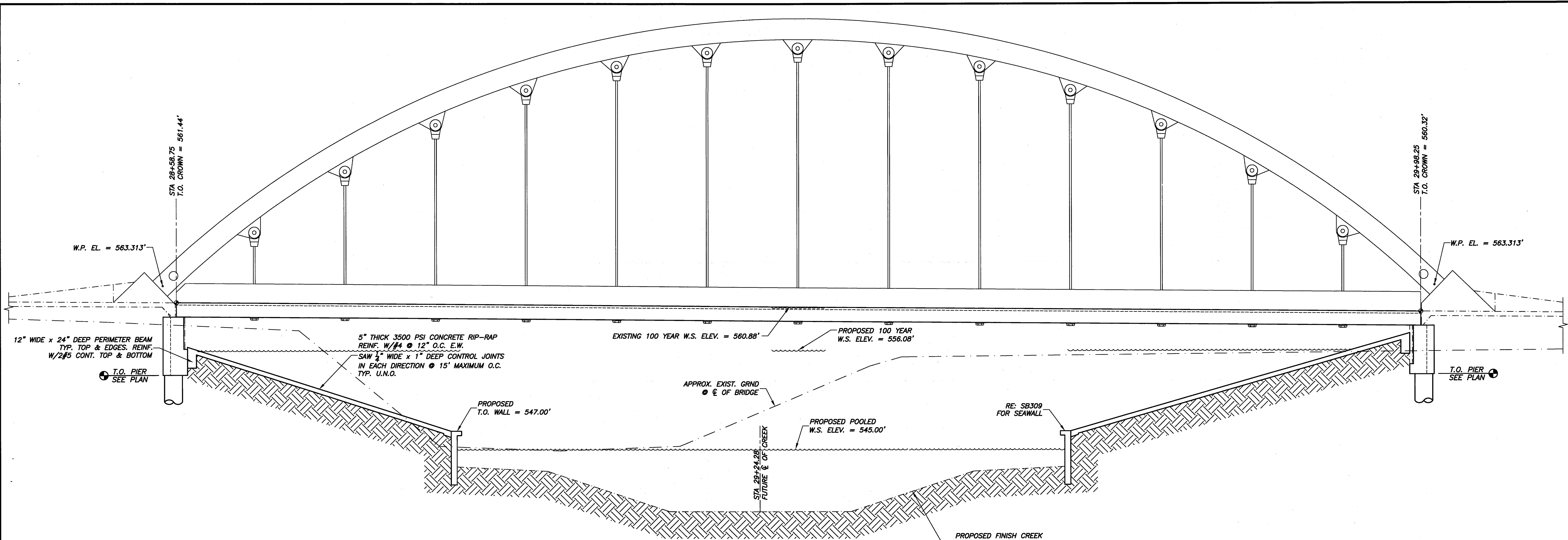
**05 CONCRETE BEAM REINFORCING PROFILE**  
 N.T.S.



**04 TYP. BEAM REINFORCING DETAIL**  
 N.T.S.

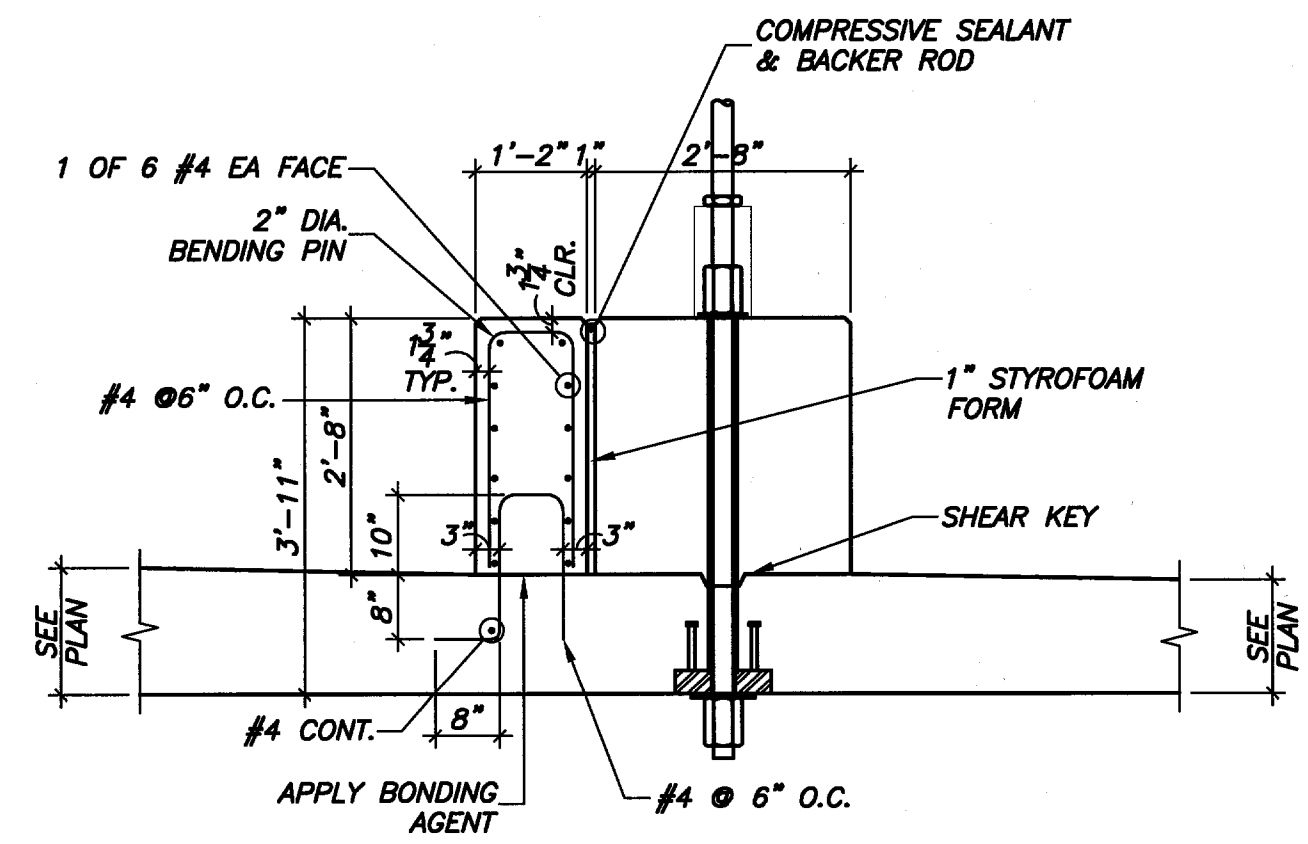


PRELIMINARY-FOR REVIEW ONLY		NO.	REVISION	BY	DATE
					01/25/09
<b>ADDISON TOWN OF ADDISON</b> DALLAS COUNTY, TEXAS <b>VITRUVIAN PARK BRIDGES</b> BELLA LANE					
<b>MILD STEEL &amp; PT CABLE PLAN</b>					
<b>VIEWTECH, INC.</b> Structural Engineers					
4205 Beltway Dr. - Addison, Texas 75001 (972) 681-8187 Fax (972) 681-8172					
PROJECT	DESIGN	DRAWN	DATE	FILE	SHEET
2007.144	VL	NERF	NOV. 25 2009	-	SB301

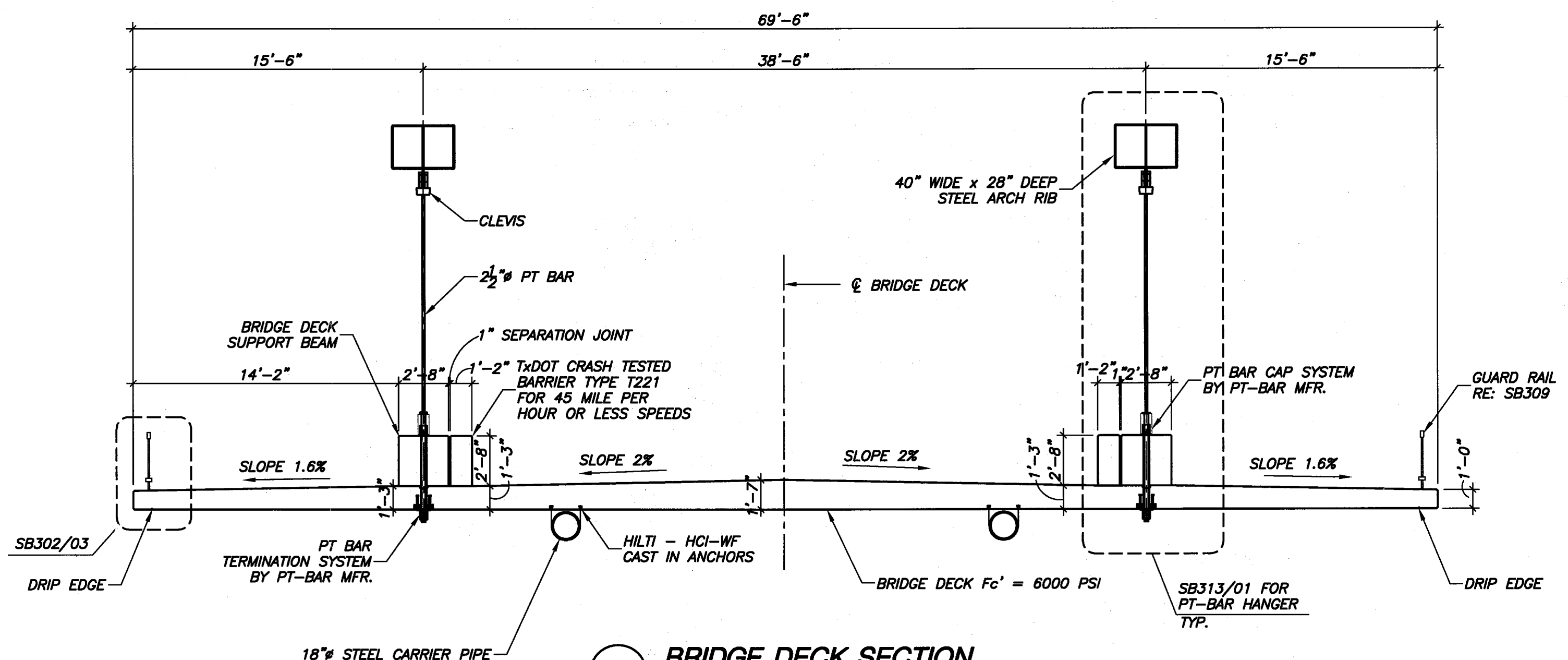


**01 SECTION**  
 $\frac{1}{16}'' = 1'-0''$

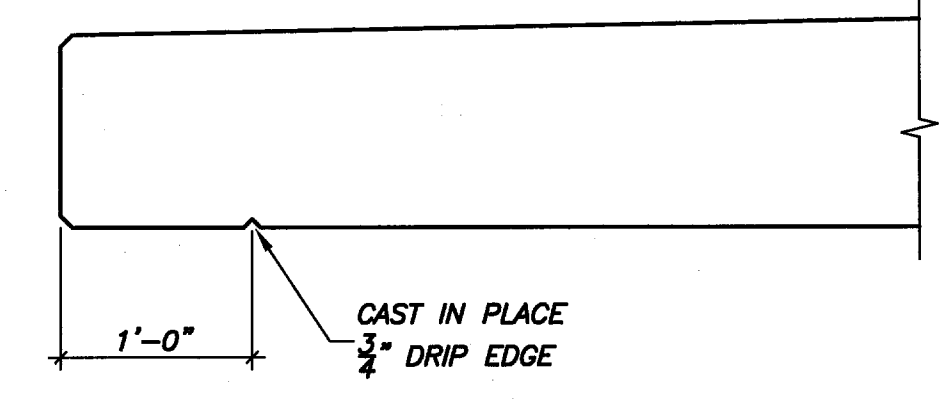
PROPOSED FINISH CREEK PROFILE. EARTH WORK REQUIRED IN THIS CONTRACT ALONG WIDTH OF BRIDGE AND TO NORTH PROPERTY LINE REFER TO CIVIL ENGINEER DRAWINGS FOR EXACT GRADING



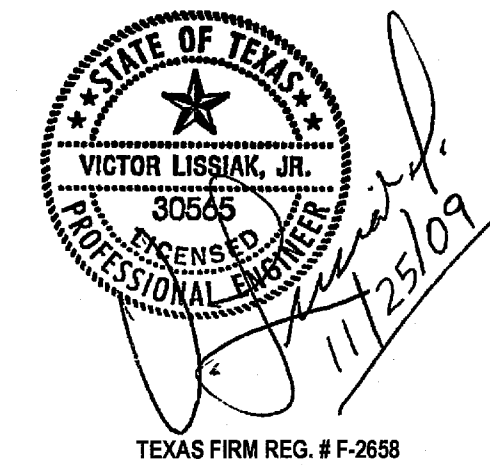
**04 TYP. TxDOT CRASH BARRIER DETAIL**  
 $\frac{1}{2}'' = 1'-0''$



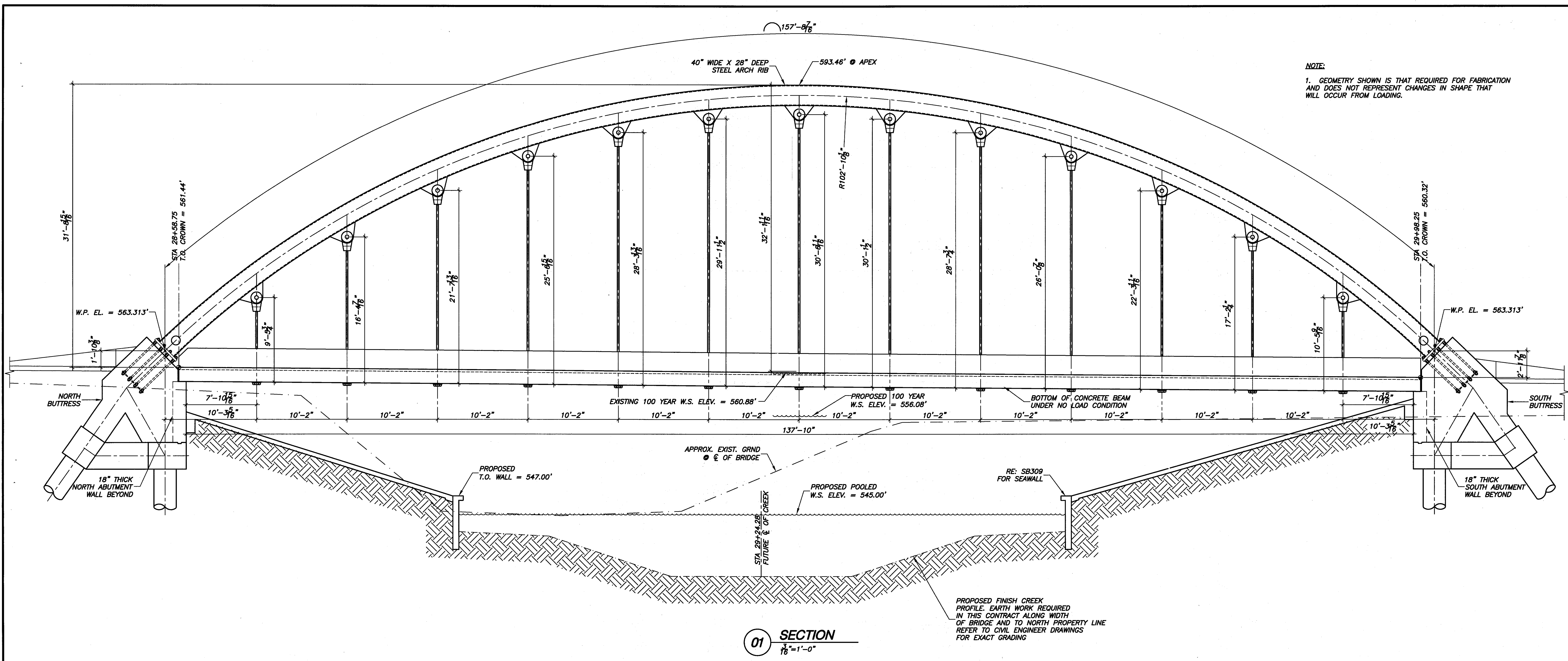
**02 BRIDGE DECK SECTION**  
 $\frac{1}{16}'' = 1'-0''$



**03 TYP. DRIP EDGE DETAIL**  
 N.T.S.



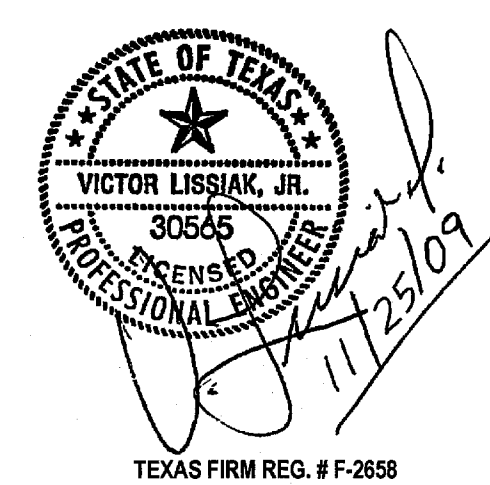
PRELIMINARY-FOR REVIEW ONLY					01/25/09
NO.	REVISION	BY	DATE		
<b>TOWN OF ADDISON</b> DALLAS COUNTY, TEXAS <b>VITRUVIAN PARK BRIDGES</b> BELLA LANE <b>BRIDGE DETAILS</b>					
<b>VIEWTECH, INC.</b>			4205 Beltway Dr. - Addison, Texas 75001		
Structural Engineers			(972) 661-8187 Fax (972) 661-8172		
PROJECT	DESIGN	DRAWN	DATE	FILE	SHEET
2007.144	VL	NERF	NOV. 25 2009	-	<b>SB302</b>



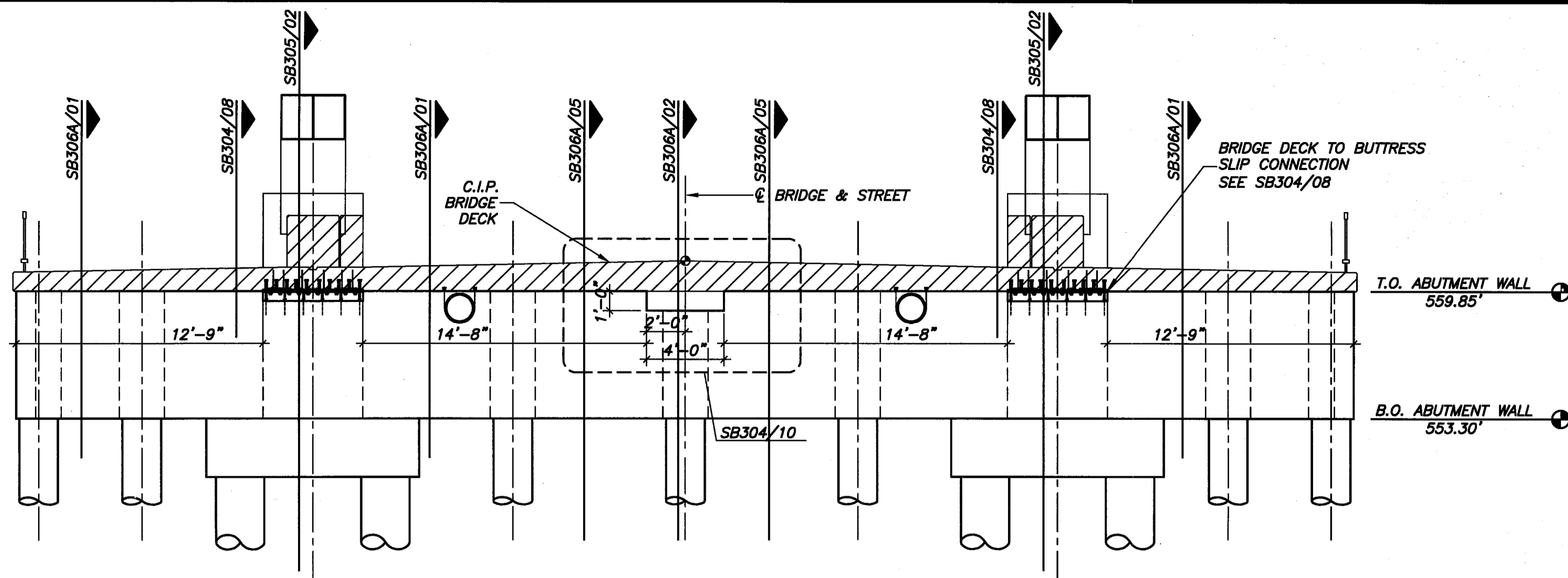
NOTE:  
 1. GEOMETRY SHOWN IS THAT REQUIRED FOR FABRICATION AND DOES NOT REPRESENT CHANGES IN SHAPE THAT WILL OCCUR FROM LOADING.

01 SECTION  
 1/8" = 1'-0"

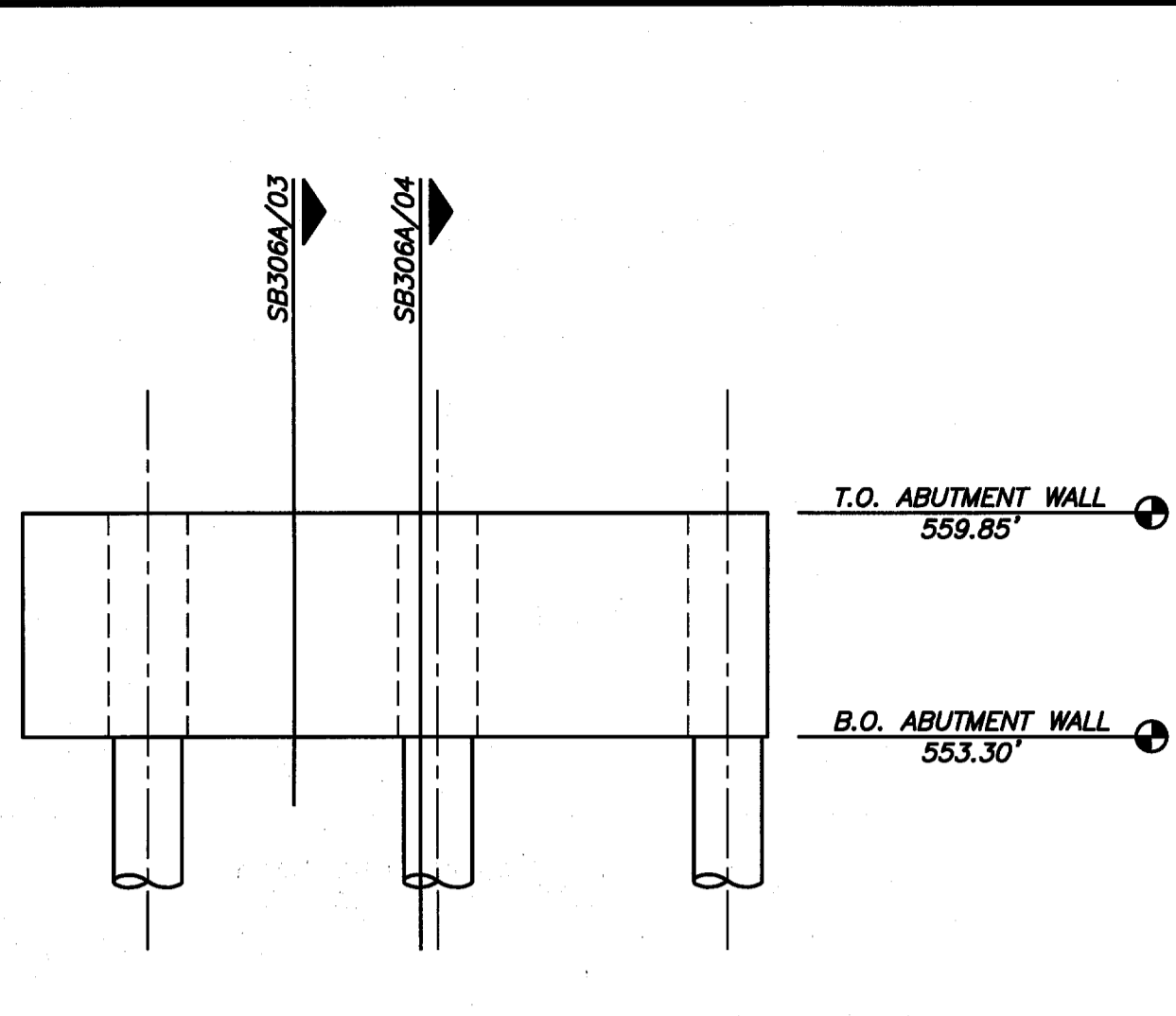
PROPOSED FINISH CREEK PROFILE. EARTH WORK REQUIRED IN THIS CONTRACT ALONG WIDTH OF BRIDGE AND TO NORTH PROPERTY LINE REFER TO CIVIL ENGINEER DRAWINGS FOR EXACT GRADING



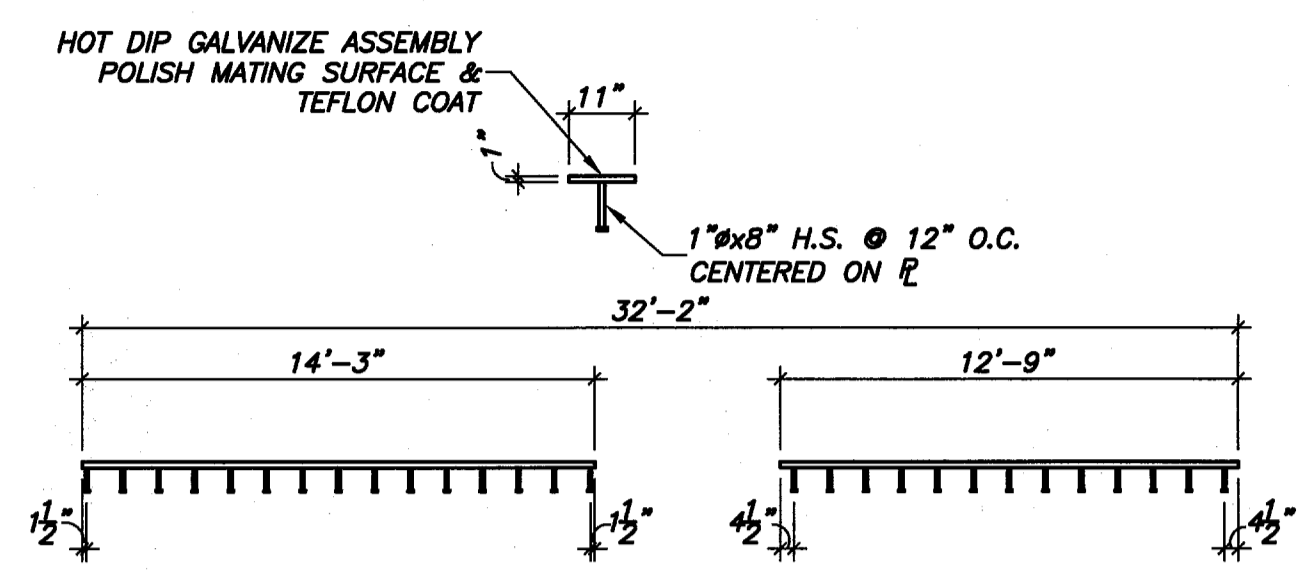
PRELIMINARY-FOR REVIEW ONLY		01/25/09	
NO.	REVISION	BY	DATE
TOWN OF ADDISON DALLAS COUNTY, TEXAS			
VITRUVIAN PARK BRIDGES BELLA LANE			
SECTION			
VIEWTECH, INC.		4205 Beltway Dr. - Addison, Texas 75001	
Structural Engineers		(972) 661-8187 Fax (972) 661-8172	
PROJECT	DESIGN	DRAWN	DATE
2007.144	VL	NERF	NOV. 25 2009
FILE			SHEET
-			SB303



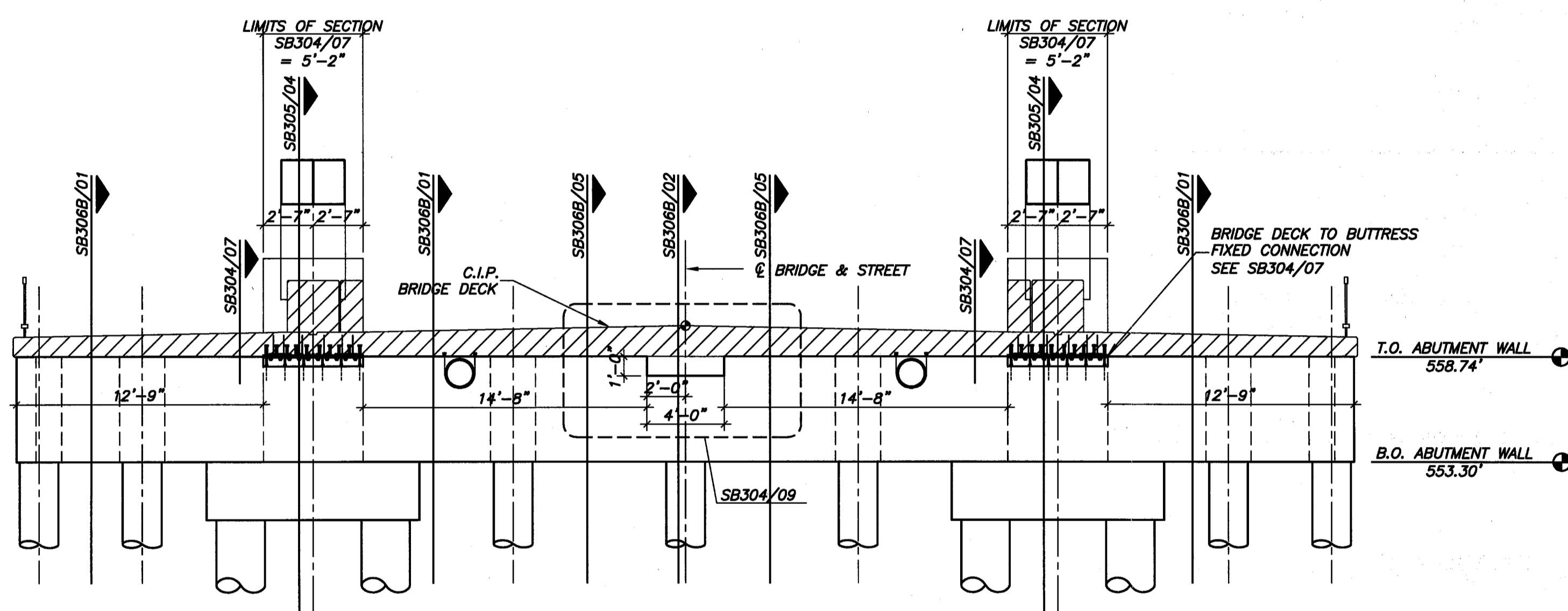
**01 NORTH ABUTMENT ELEVATION**  
 $\frac{1}{16}'' = 1'-0''$



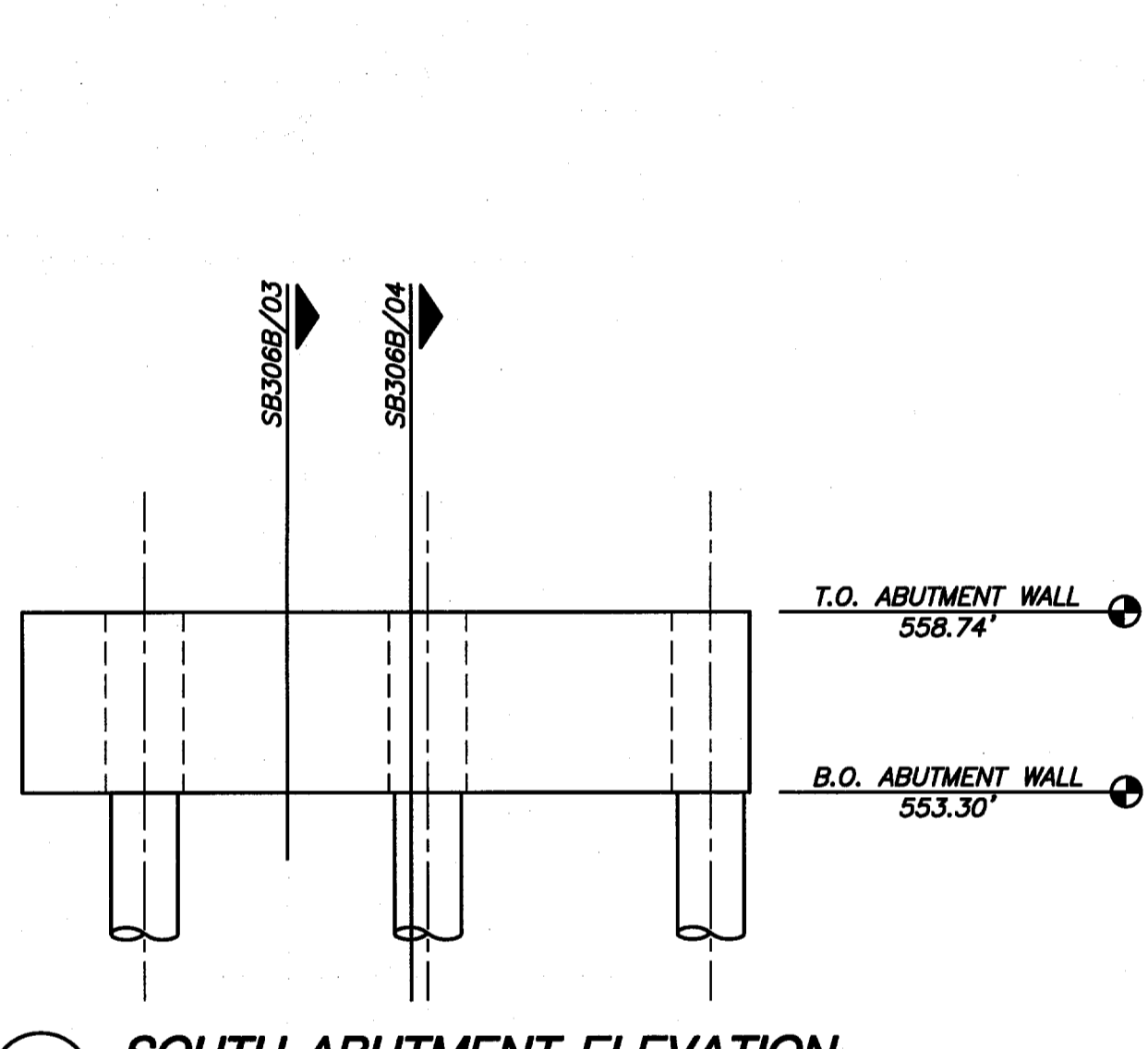
**02 NORTH ABUTMENT ELEVATION**  
 $\frac{1}{16}'' = 1'-0''$



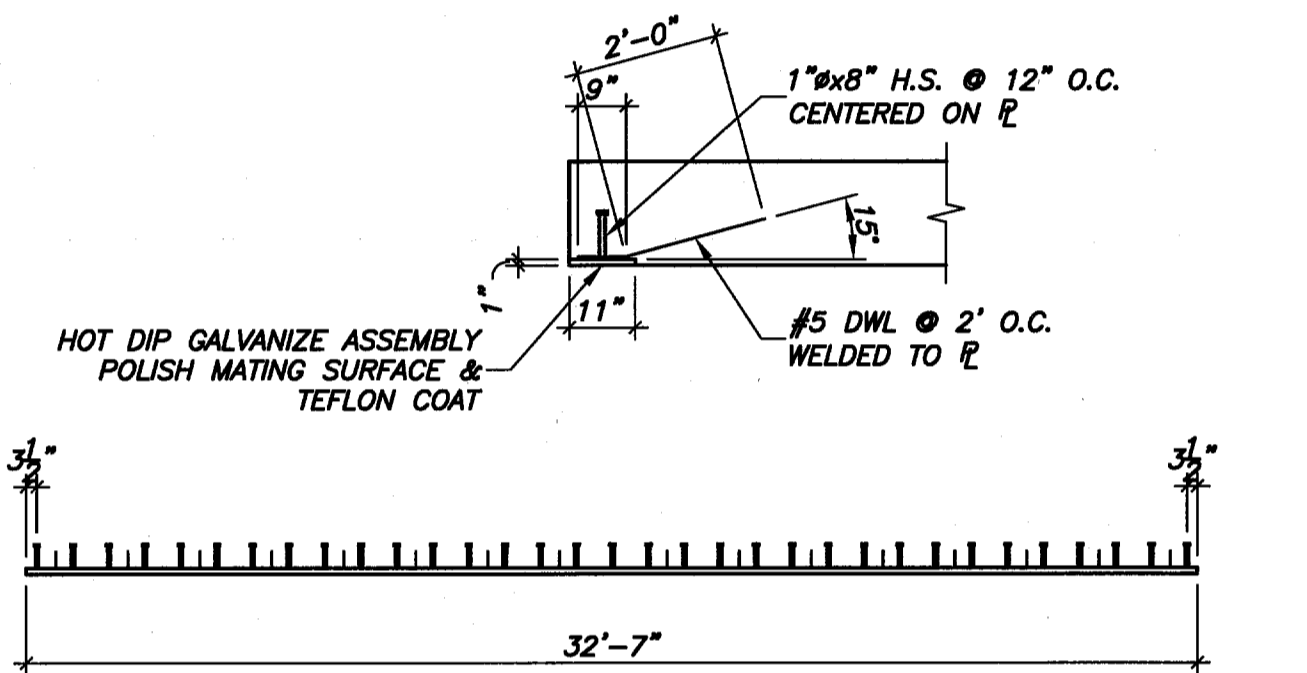
**05 ABUTMENT WALL EMBED DETAIL**  
 N.T.S.



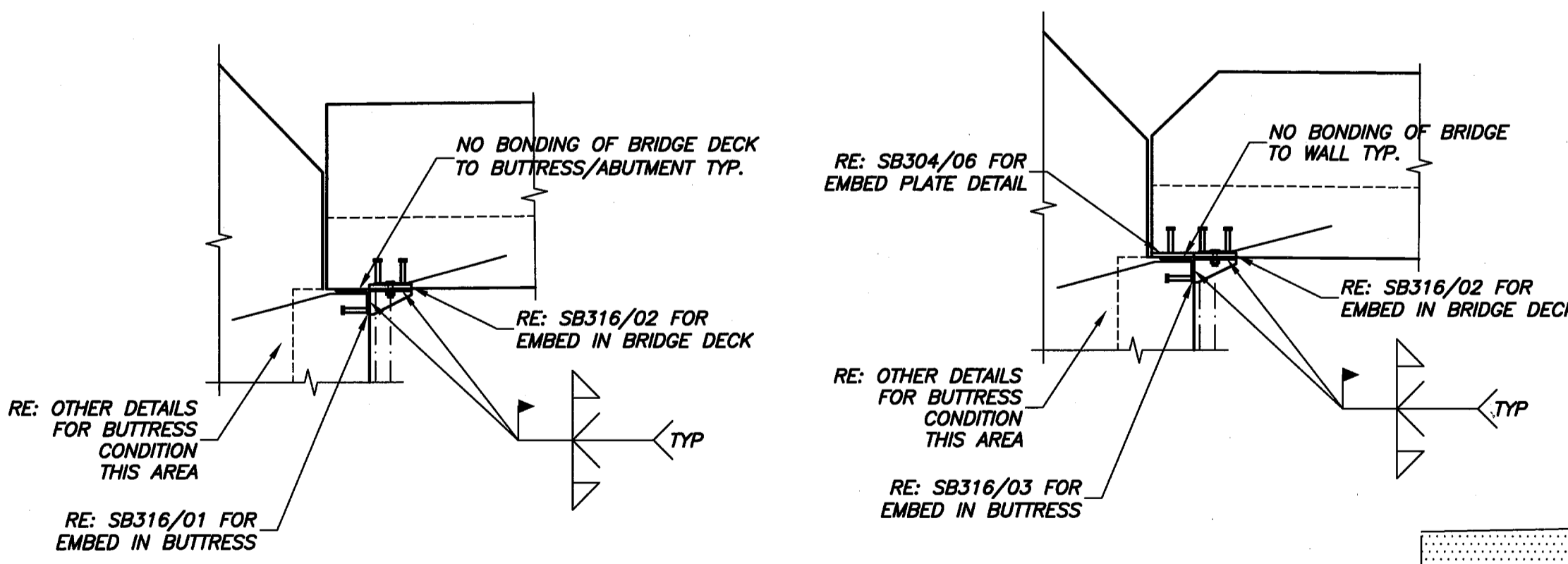
**03 SOUTH ABUTMENT ELEVATION**  
 $\frac{1}{16}'' = 1'-0''$



**04 SOUTH ABUTMENT ELEVATION**  
 $\frac{1}{16}'' = 1'-0''$



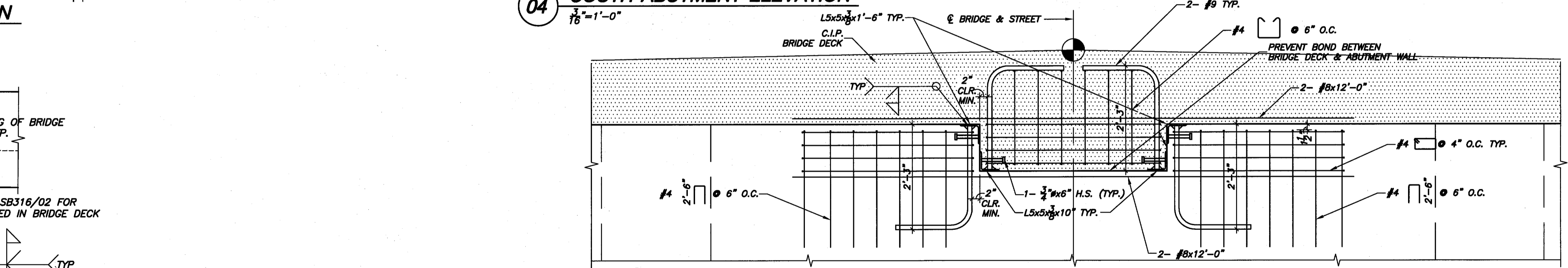
**06 BRIDGE DECK EMBED DETAIL**  
 N.T.S.



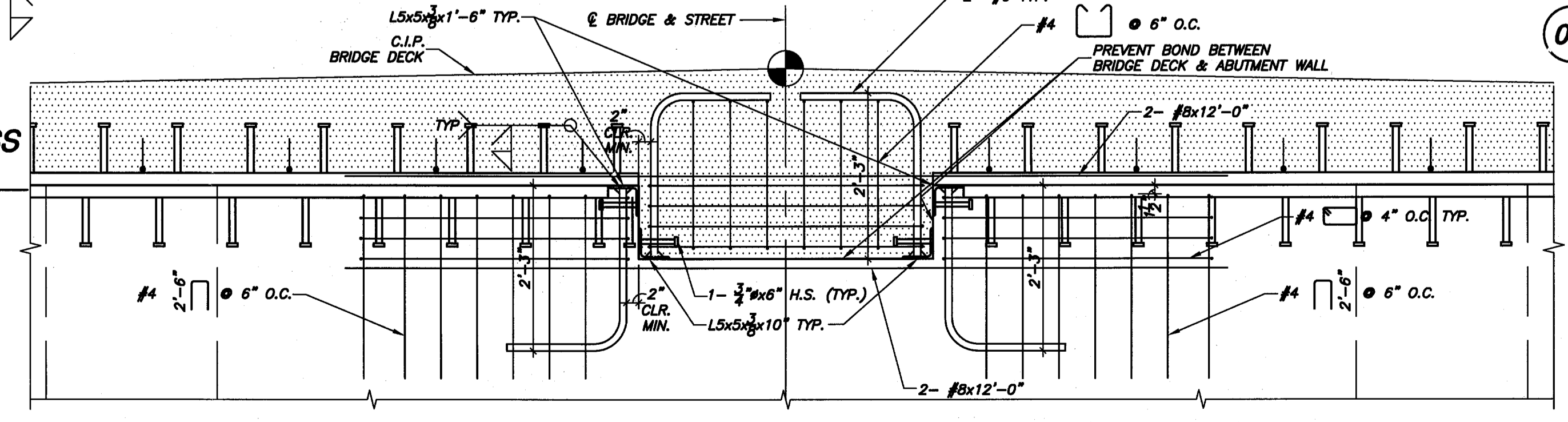
**07 BRIDGE DECK TO BUTTRESS FIXED CONNECTION DETAIL**  
 N.T.S.

**08 BRIDGE DECK TO BUTTRESS SLIP CONNECTION DETAIL**  
 N.T.S.

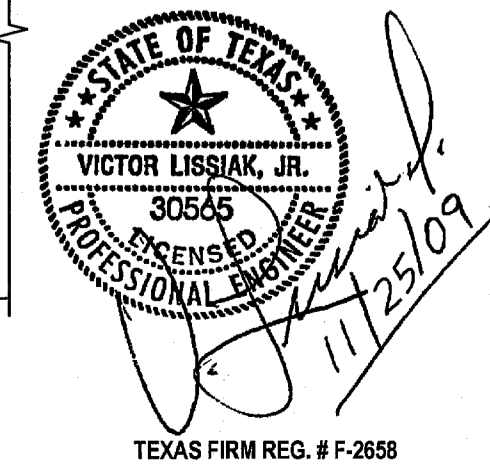
**INSTALLATION PROCEDURE FOR DETAILS SB304/07 & SB304/08:**  
 1. INSTALL PLATE AFTER BRIDGE DECK SLAB PT CABLES HAVE BEEN STRESSED.  
 2. THIS CONNECTION MUST BE INSTALLED PRIOR TO STRESSING BRIDGE HANGER RODS.



**09 SHEAR KEY DETAIL AT FIXED CONNECTION**  
 N.T.S.

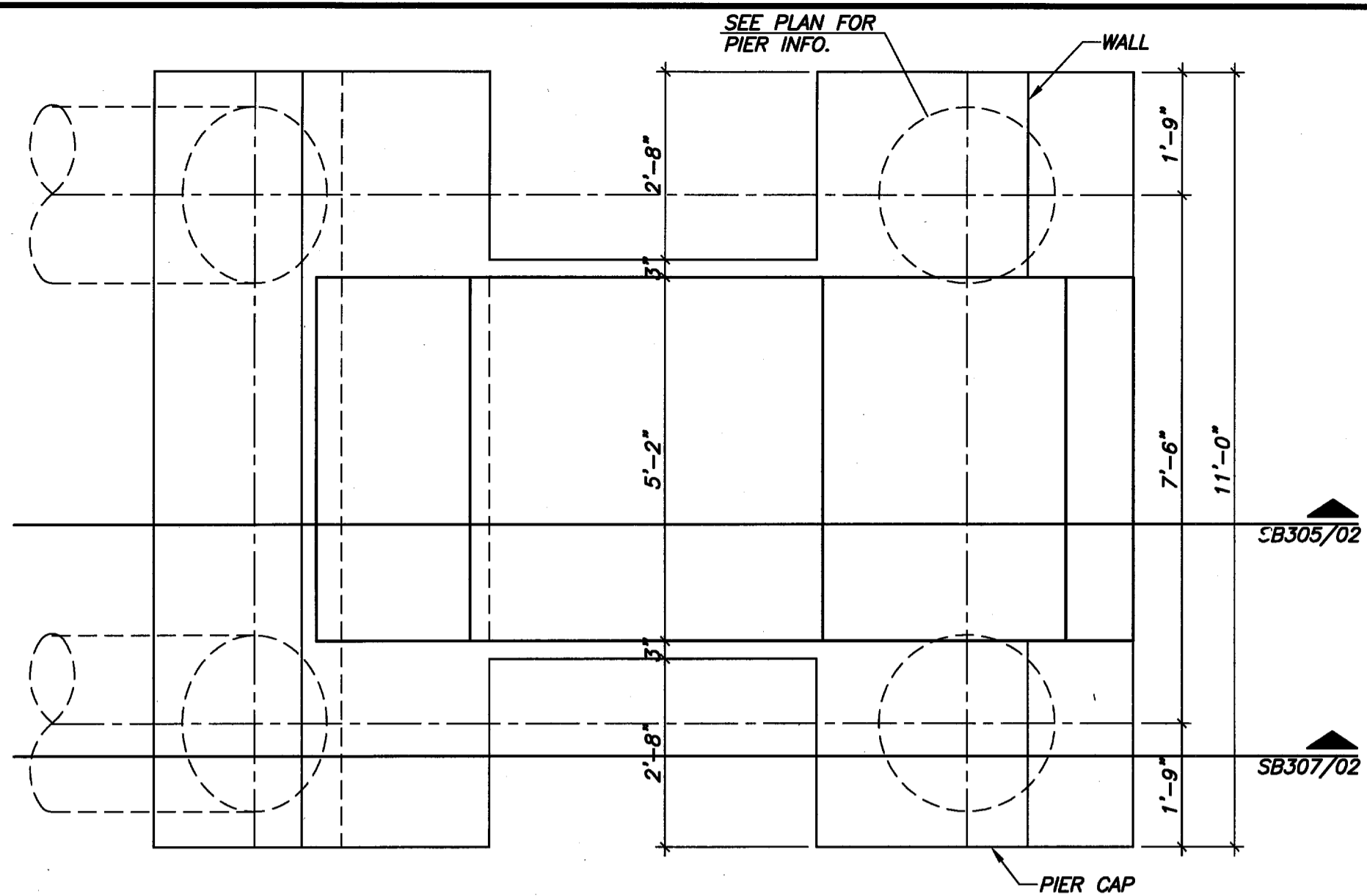


**10 SHEAR KEY DETAIL AT SLIP CONNECTION**  
 N.T.S.

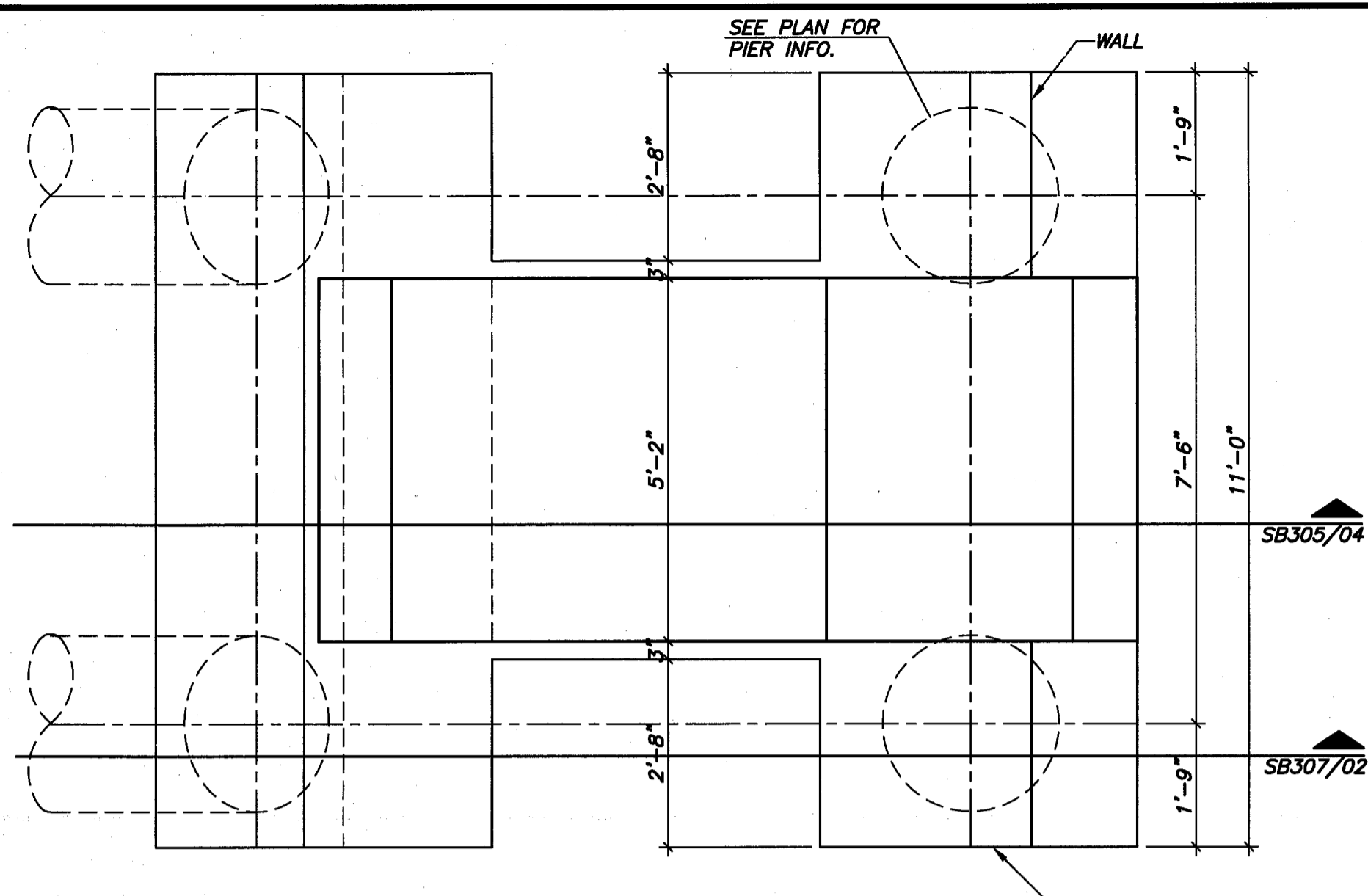


PRELIMINARY-FOR REVIEW ONLY		NO.	REVISION	BY	DATE
					01/25/09
TOWN OF ADDISON DALLAS COUNTY, TEXAS					
VITRUVIAN PARK BRIDGES BELLA LANE					
<b>ABUTMENT ELEVATIONS</b>					
<b>VIEWTECH, INC.</b> Structural Engineers		4205 Beltway Dr. - Addison, Texas 75001 (972) 661-8187 Fax (972) 661-8172			
PROJECT	DESIGN	DRAWN	DATE	FILE	SHEET
2007.144	VL	NERF	NOV. 25 2009	-	SB304

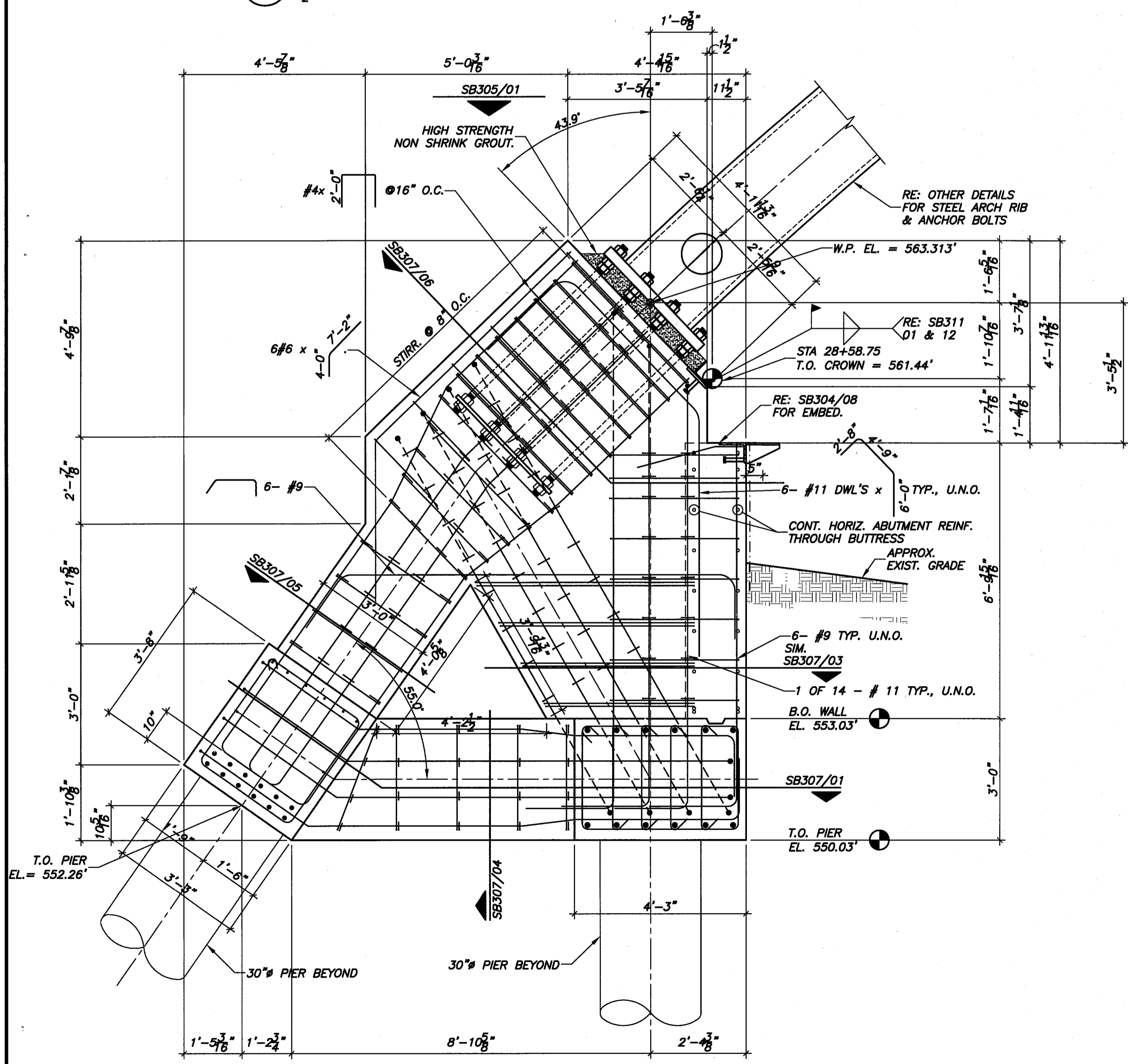
TEXAS FIRM REG. # F-2658



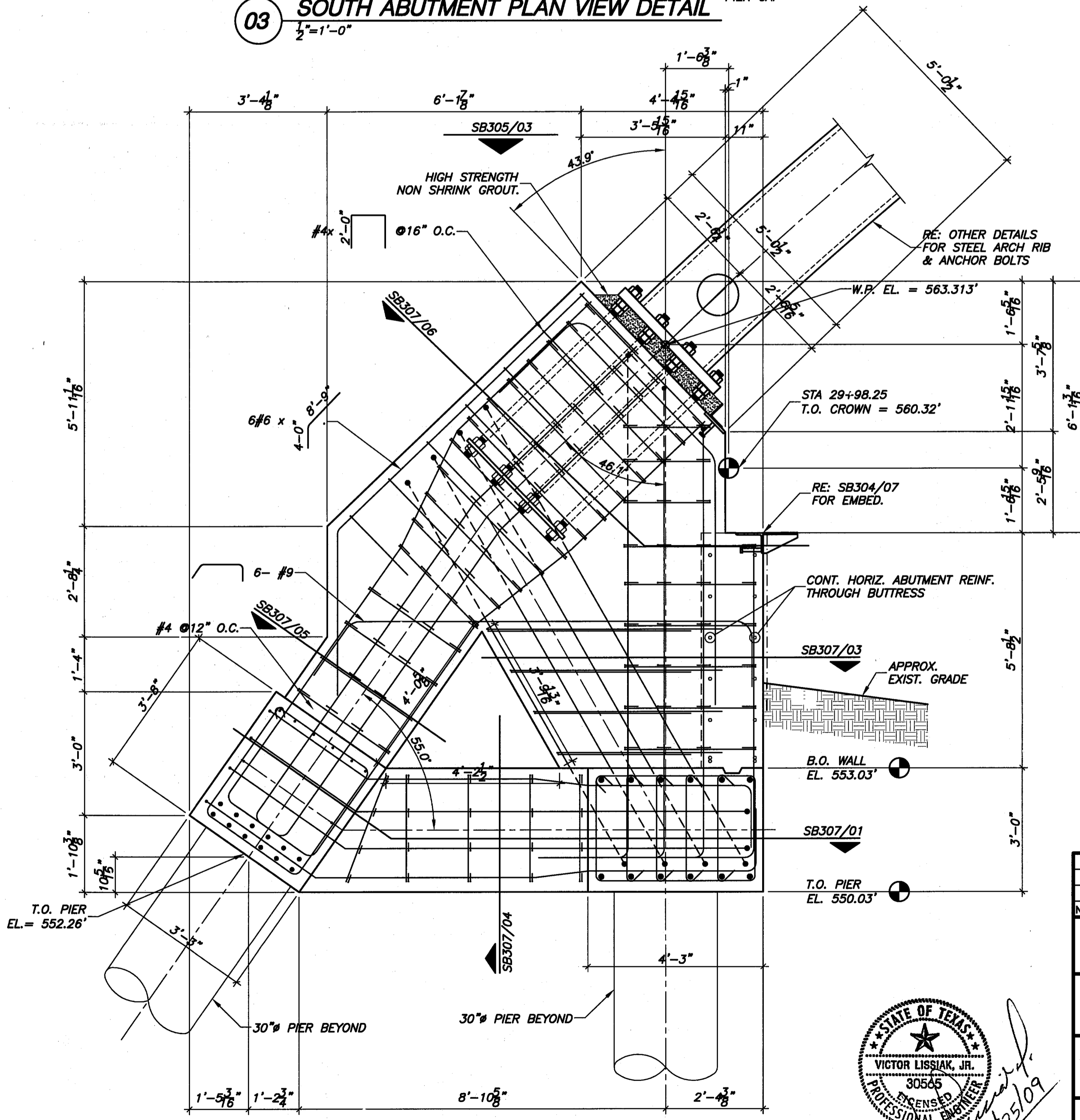
**01 NORTH ABUTMENT PLAN VIEW DETAIL**  
 $\frac{1}{2}''=1'-0''$



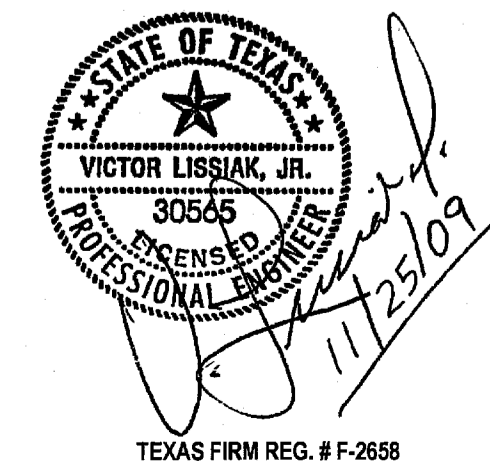
**03 SOUTH ABUTMENT PLAN VIEW DETAIL**  
 $\frac{1}{2}''=1'-0''$



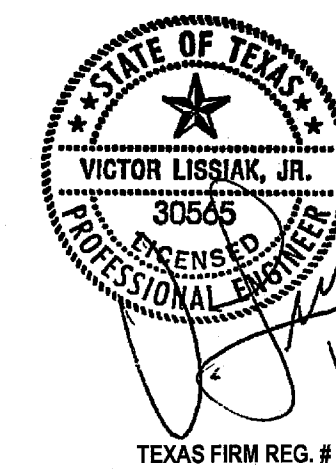
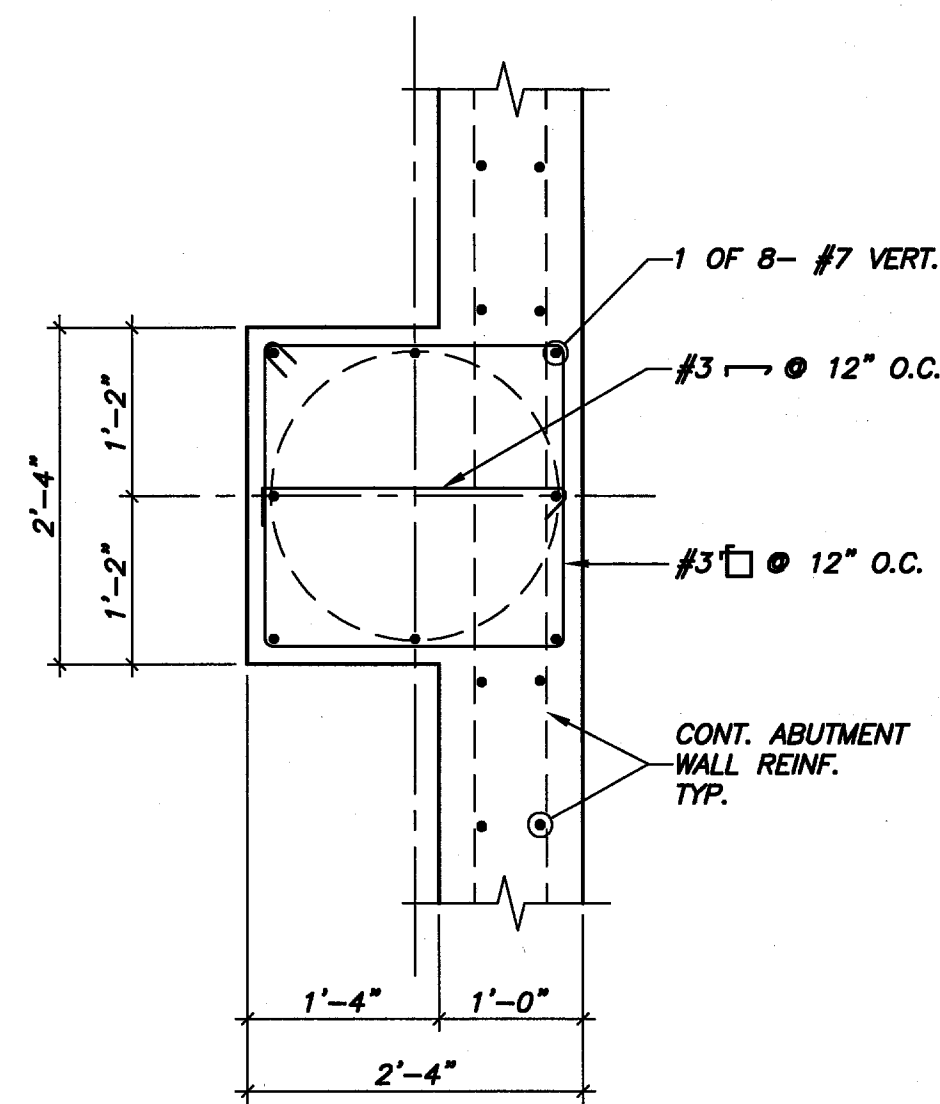
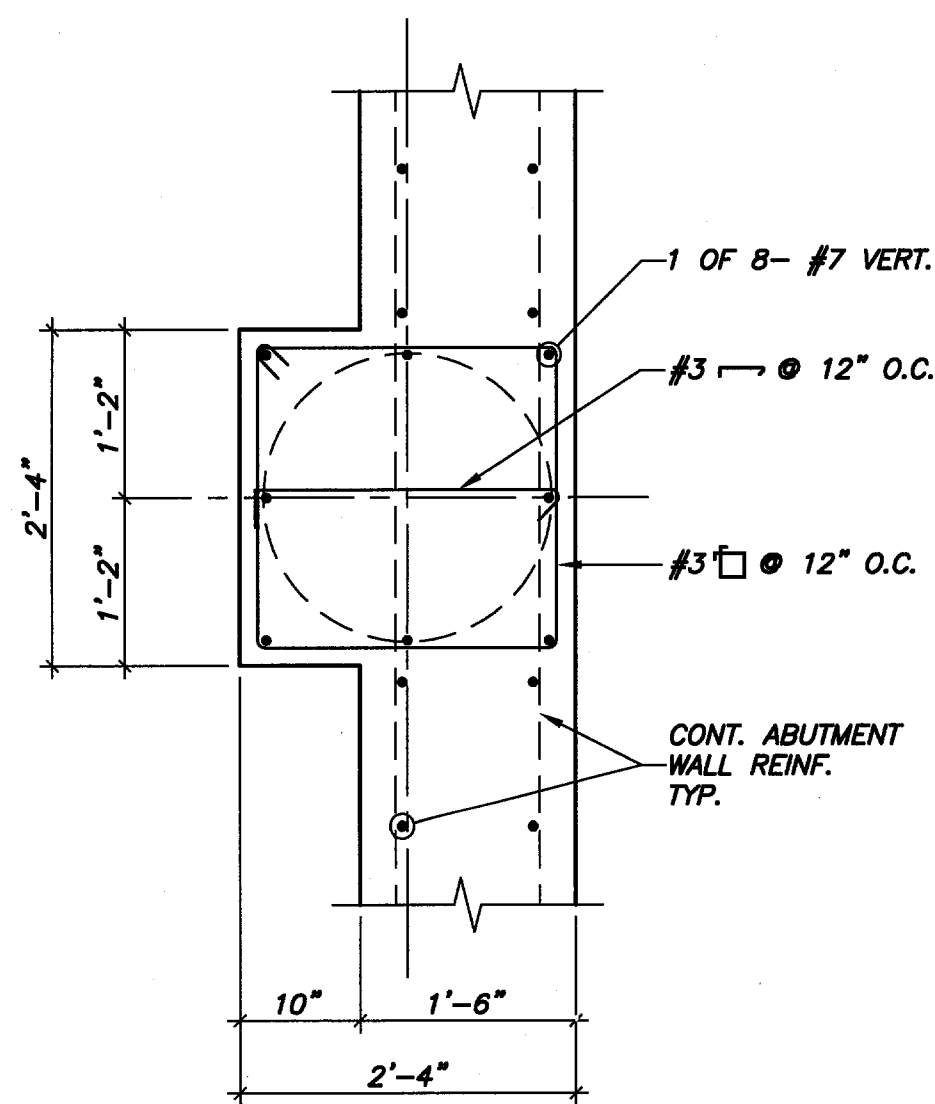
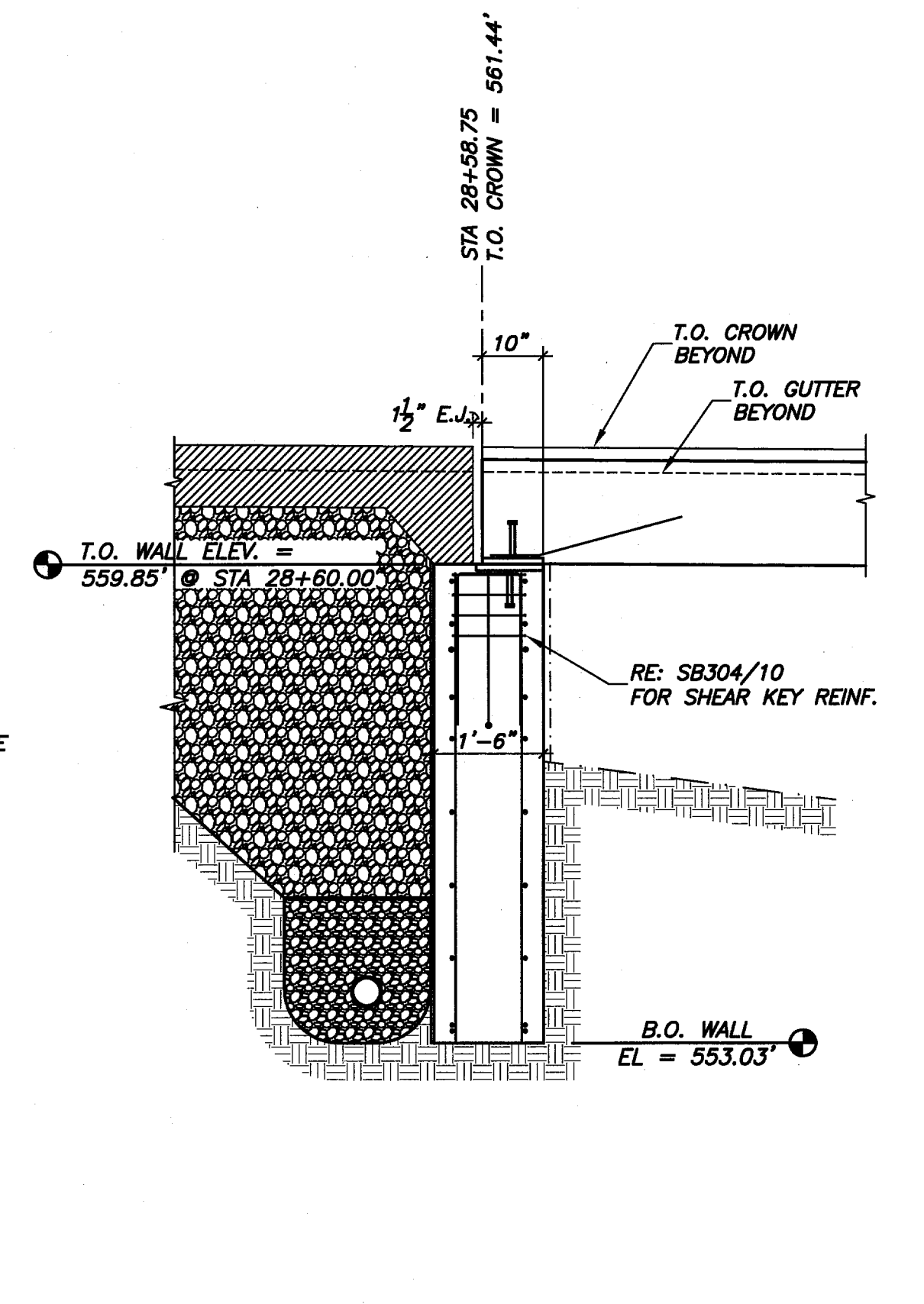
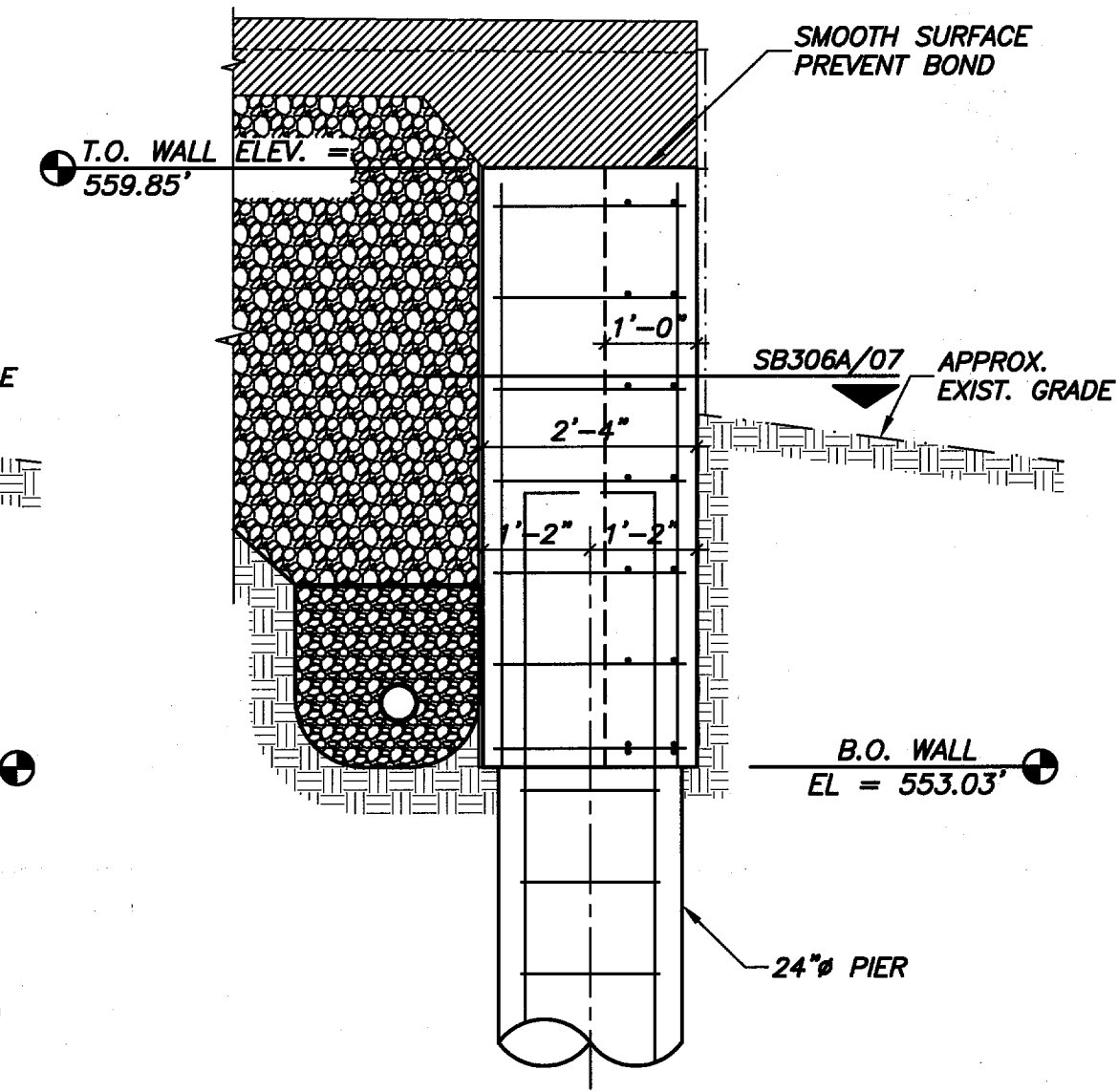
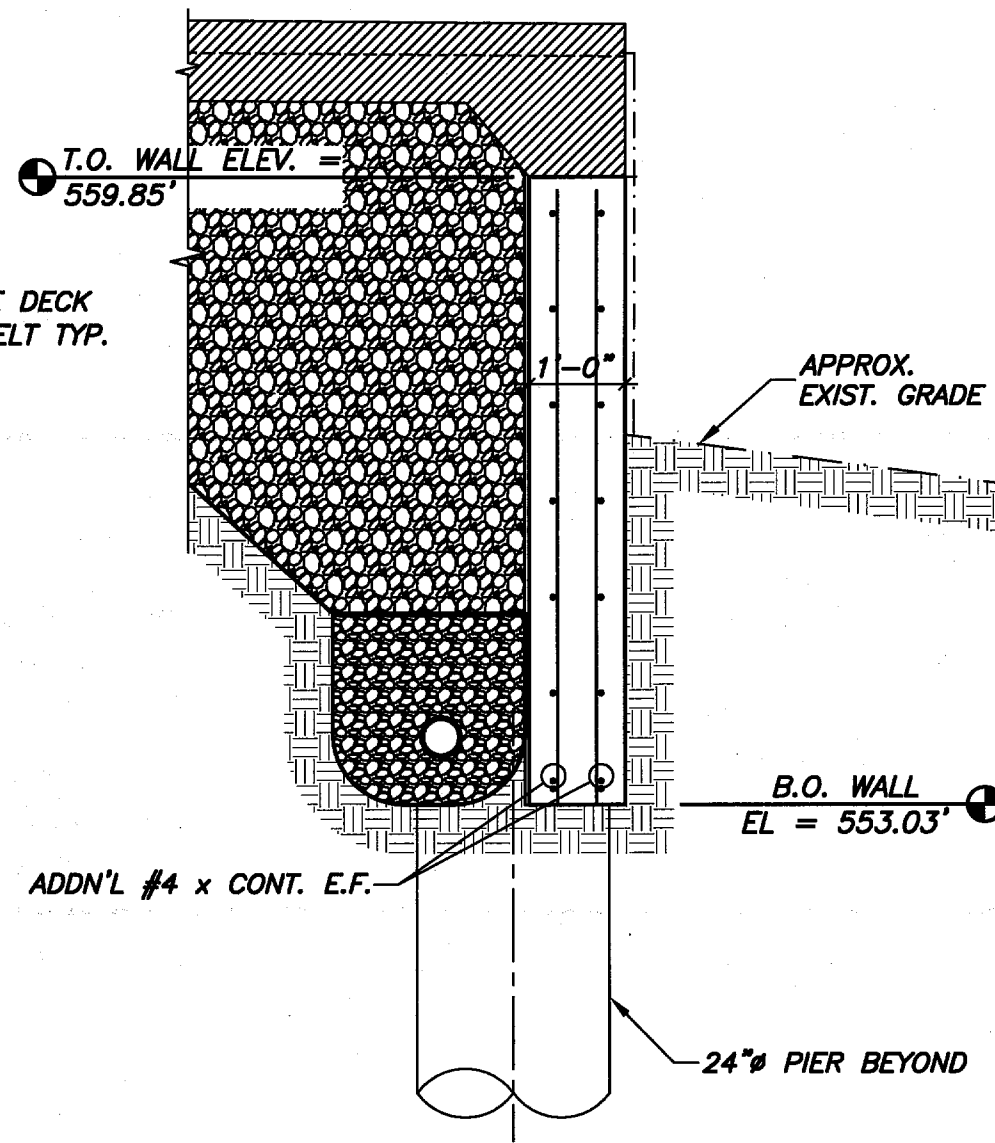
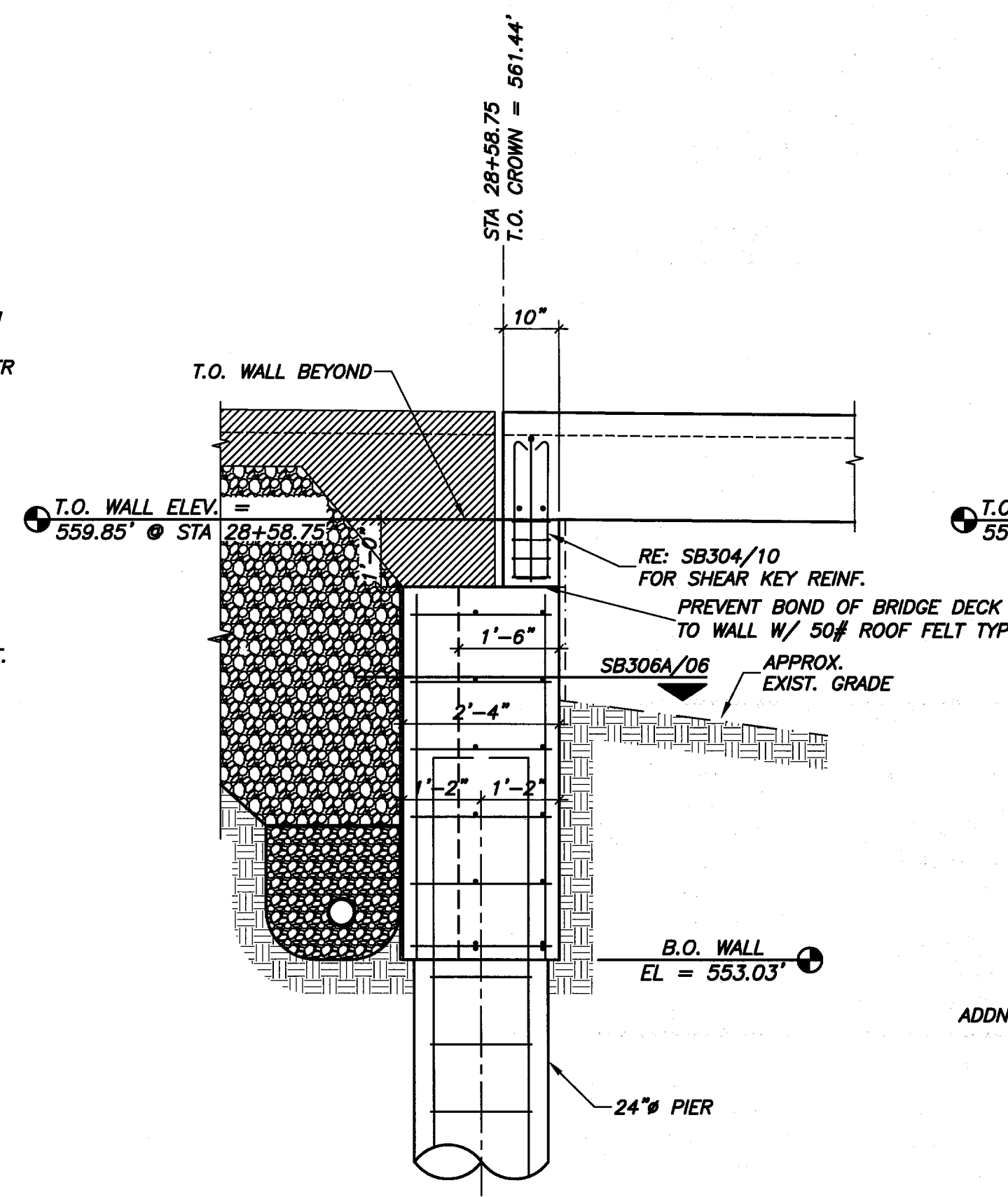
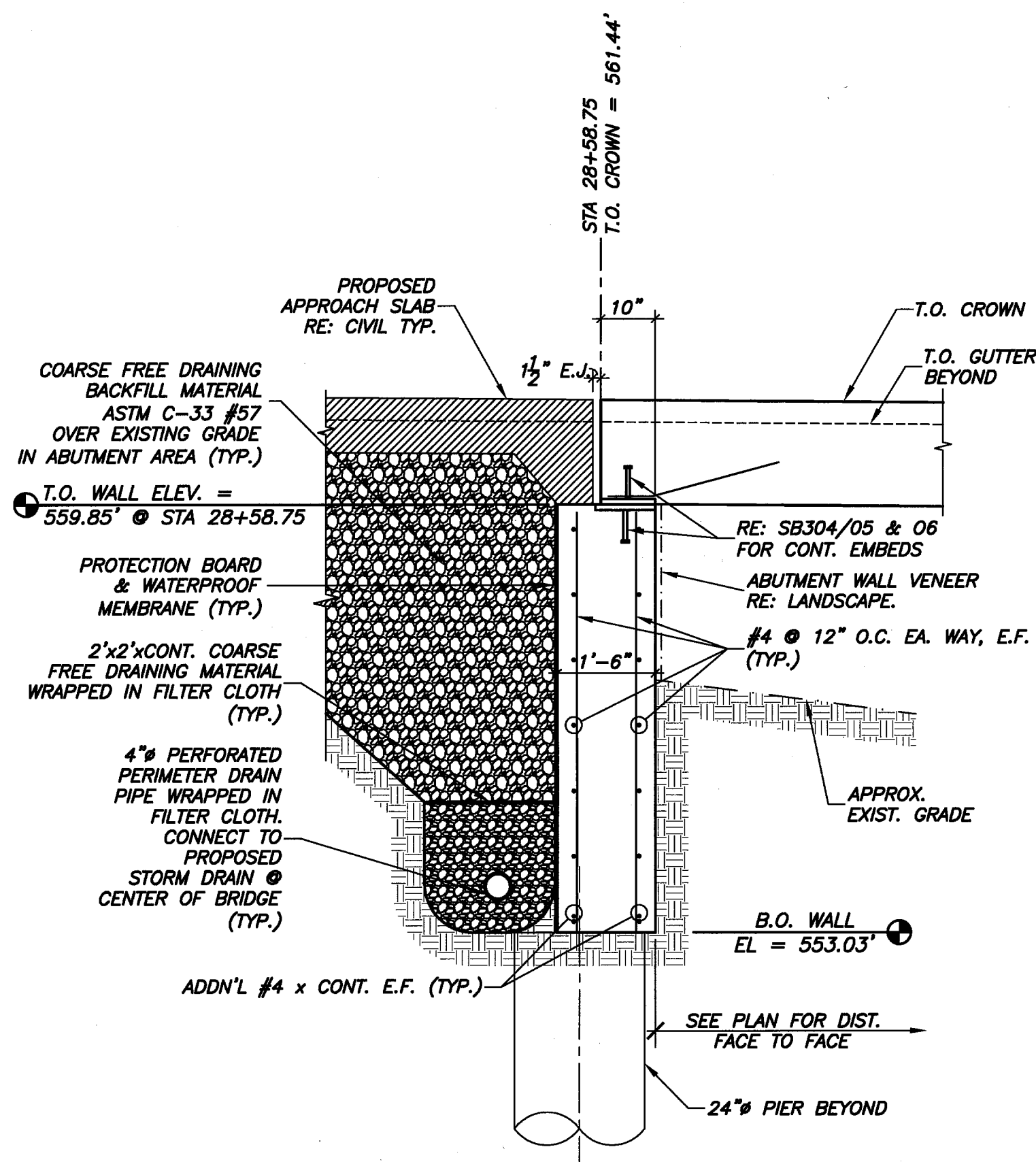
**02 NORTH BUTTRESS SECTION**  
 $\frac{1}{2}''=1'-0''$



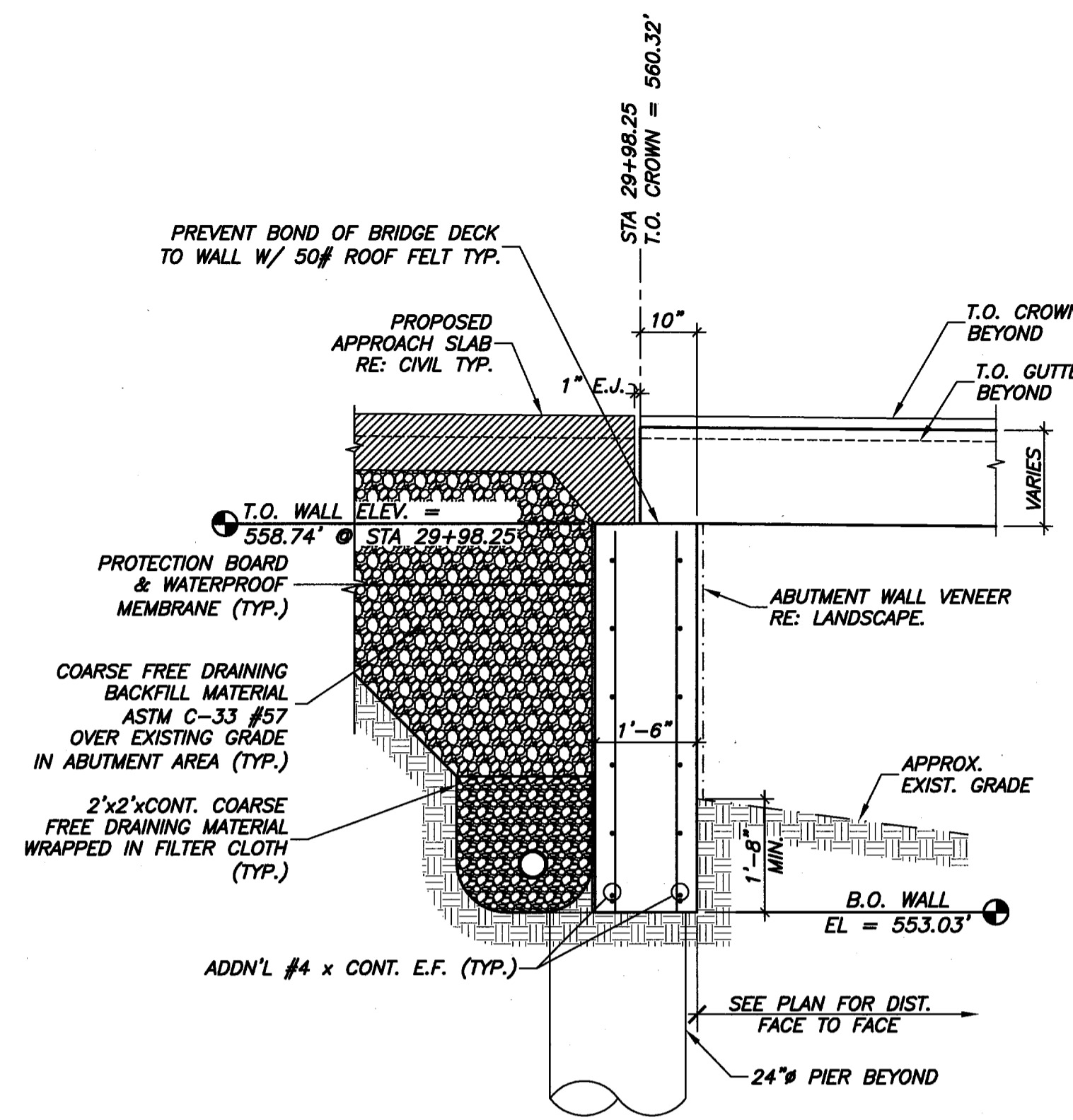
**04 SOUTH BUTTRESS SECTION**  
 $\frac{1}{2}''=1'-0''$



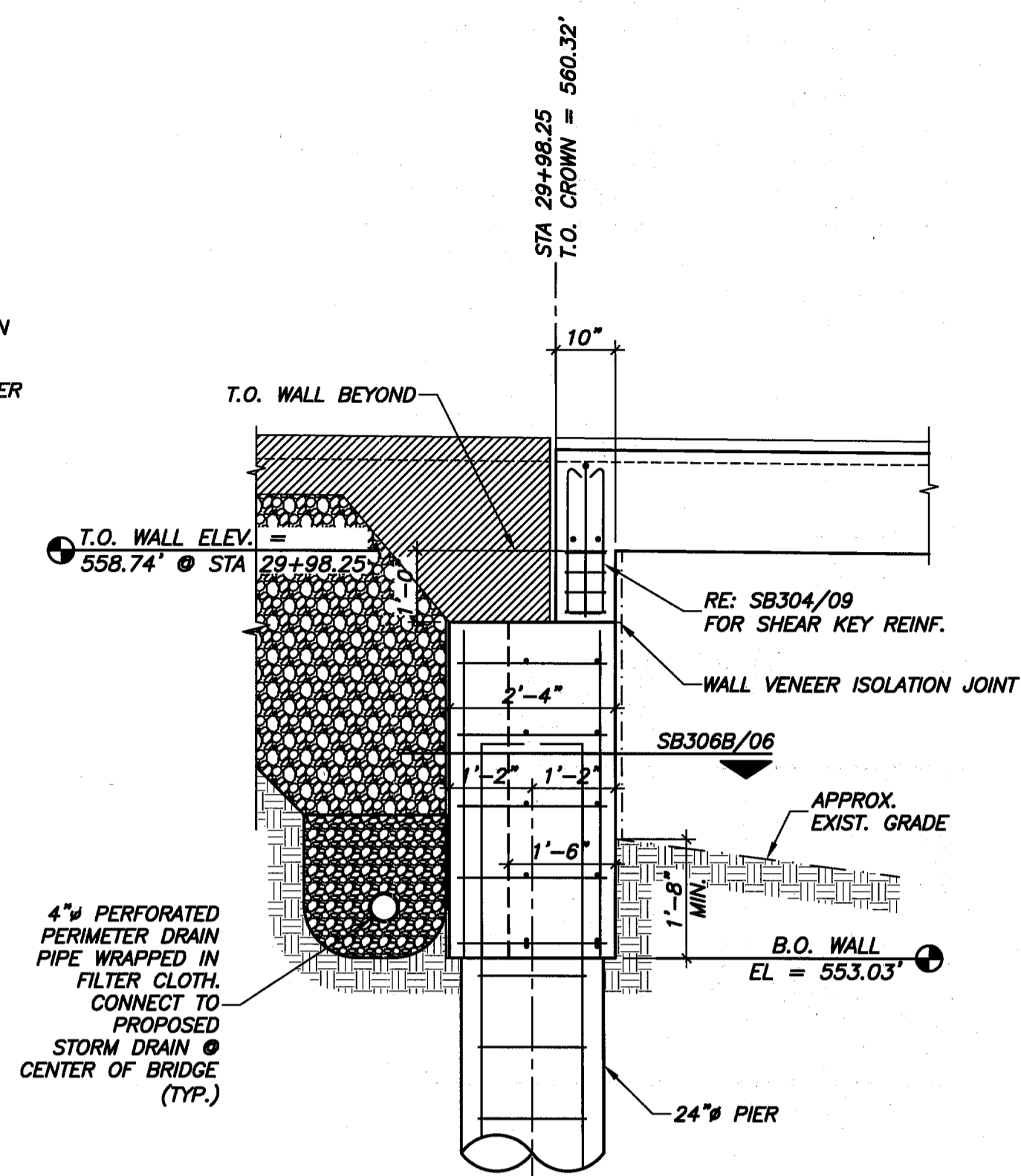
PRELIMINARY-FOR REVIEW ONLY				01/25/09
NO.	REVISION	BY	DATE	
TOWN OF ADDISON DALLAS COUNTY, TEXAS				
VITRUVIAN PARK BRIDGES BELLA LANE				
<b>BUTTRESS SECTIONS &amp; DETAILS</b>				
<b>VIEWTECH, INC.</b>		4205 Beltway Dr. - Addison, Texas 75001		
Structural Engineers		(972) 661-8187 Fax (972) 661-8172		
PROJECT	DESIGN	DRAWN	FILE	SHEET
2007.144	VL	NERF	NOV. 25 2009	SB305



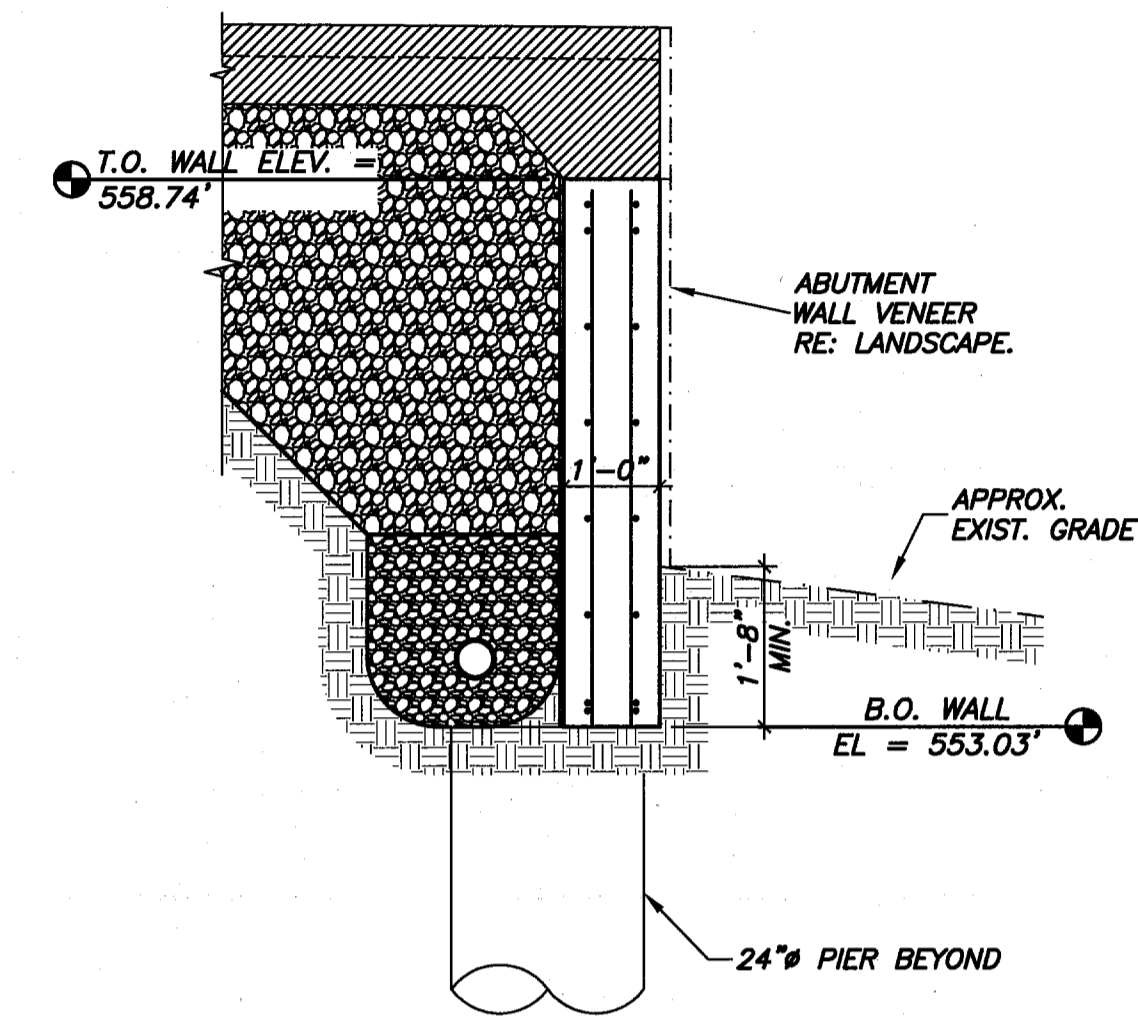
PRELIMINARY-FOR REVIEW ONLY		NO.	REVISION	BY	DATE
					01/25/09
TOWN OF ADDISON DALLAS COUNTY, TEXAS					
VITRUVIAN PARK BRIDGES BELLA LANE					
<b>ABUTMENT SECTIONS &amp; DETAILS</b>					
<b>VIEWTECH, INC.</b>		4206 Beltway Dr. - Addison, Texas 75001 (972) 661-8187 Fax (972) 661-8172			
PROJECT	DESIGN	DRAWN	DATE	FILE	SHEET
2007.144	VL	NERF	NOV. 25 2009	-	SB306 A



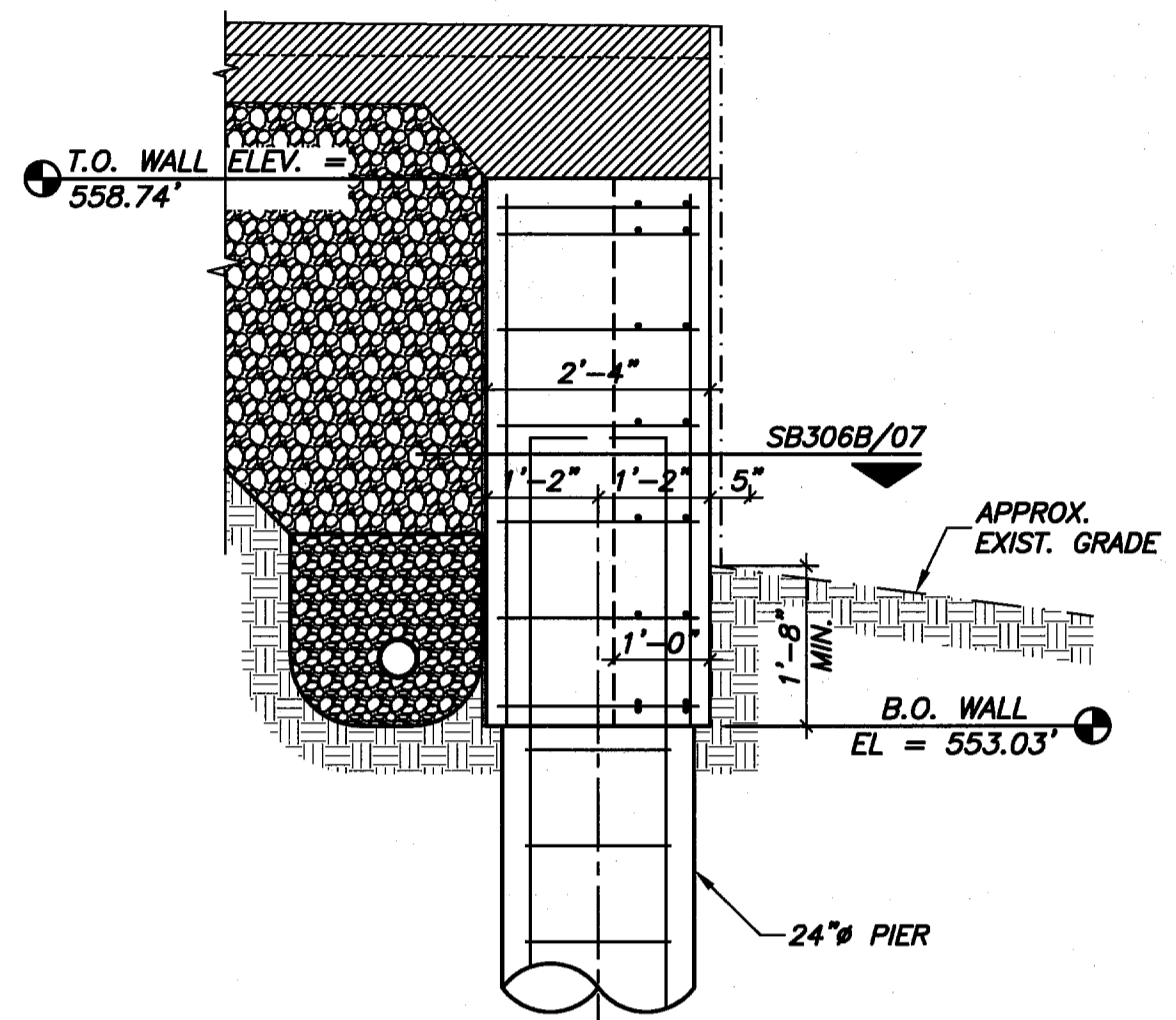
**01 SOUTH ABUTMENT SECTION**  
1/2"=1'-0"



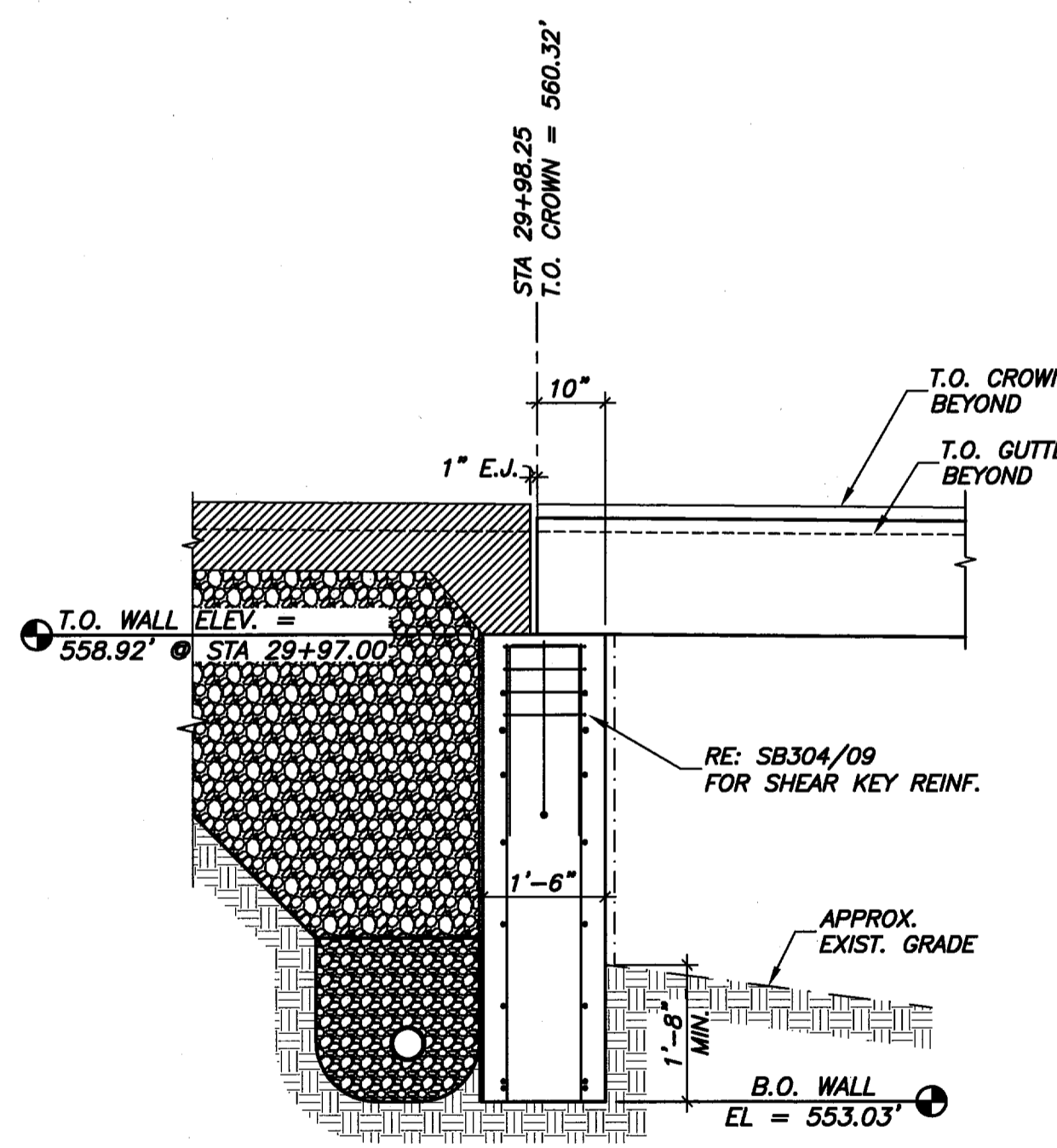
**02 SOUTH ABUTMENT SECTION**  
1/2"=1'-0"



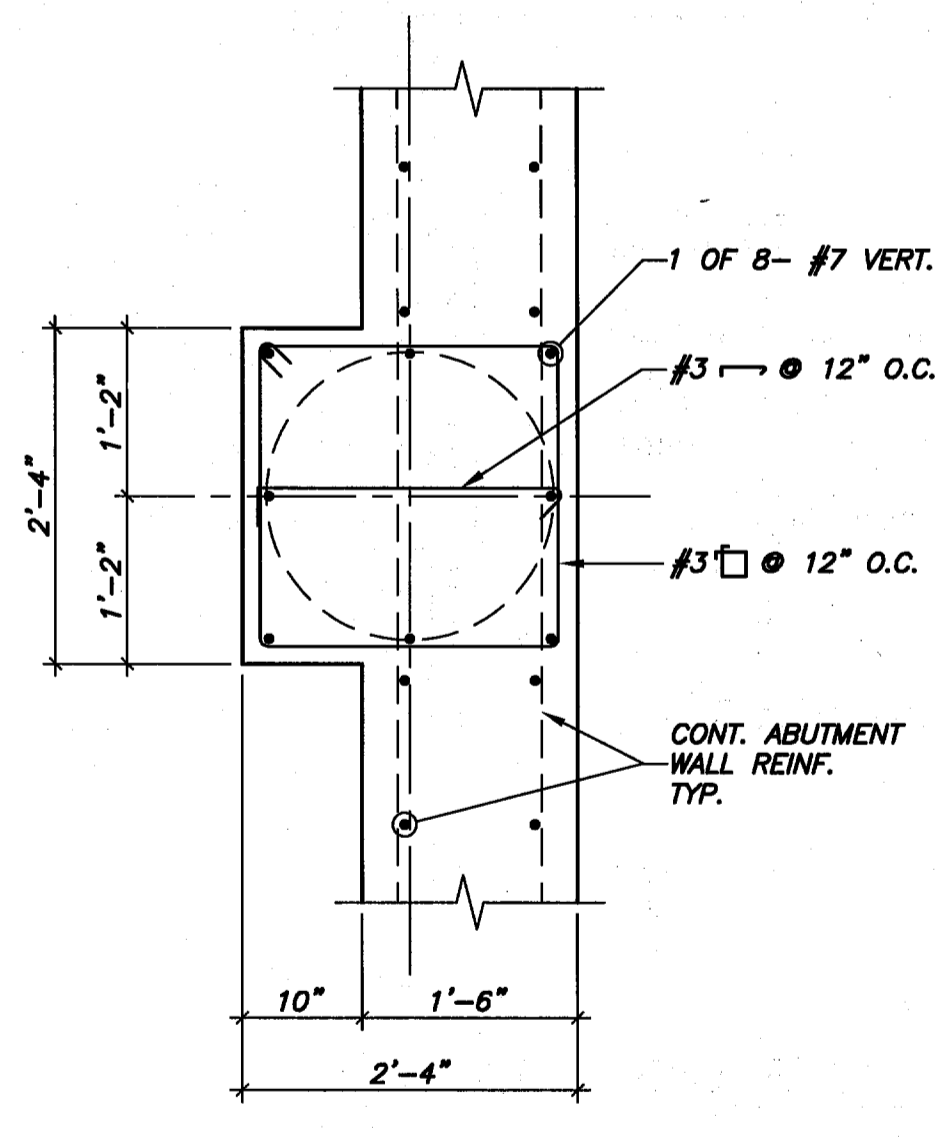
**03 SOUTH ABUTMENT SECTION**  
1/2"=1'-0"



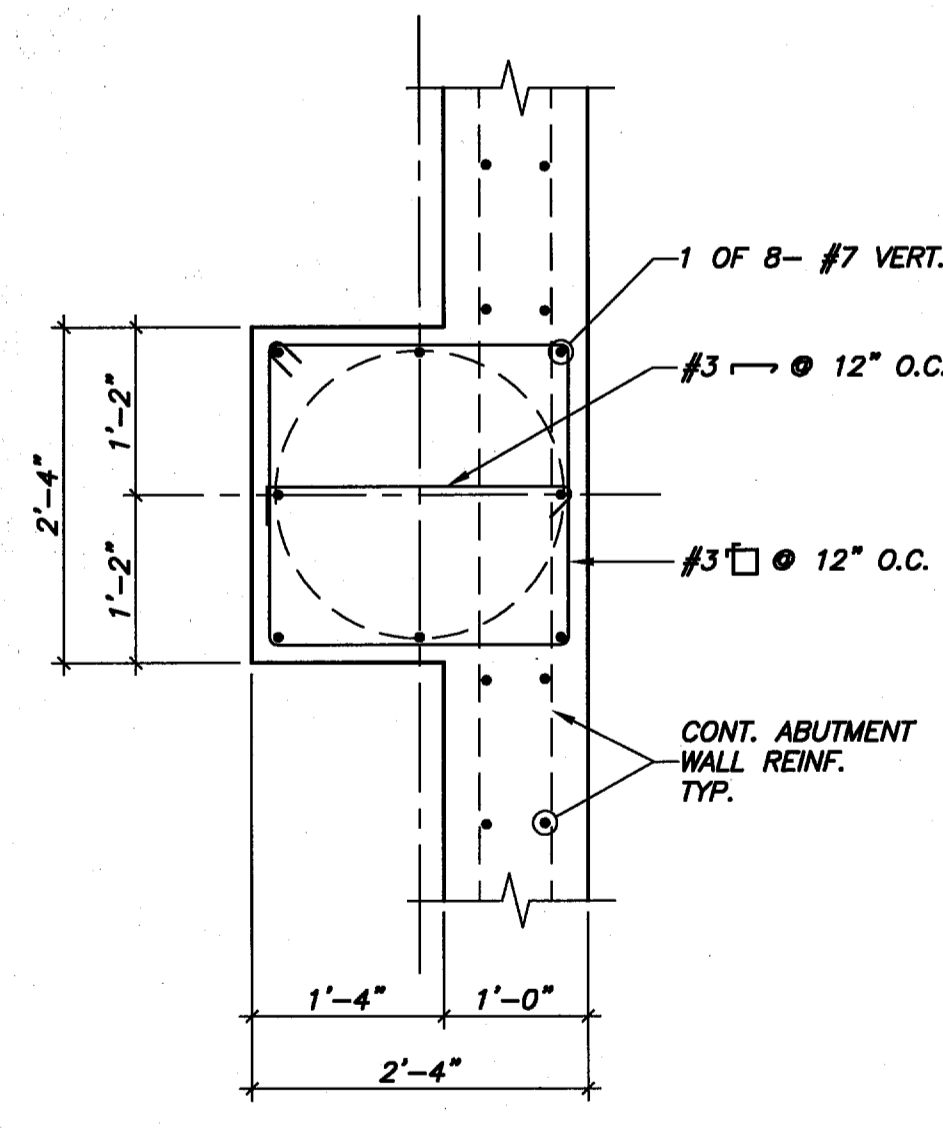
**04 SOUTH ABUTMENT SECTION**  
1/2"=1'-0"



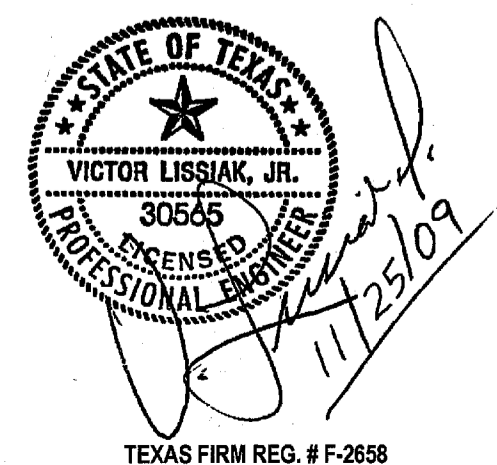
**05 SOUTH ABUTMENT SECTION**  
1/2"=1'-0"



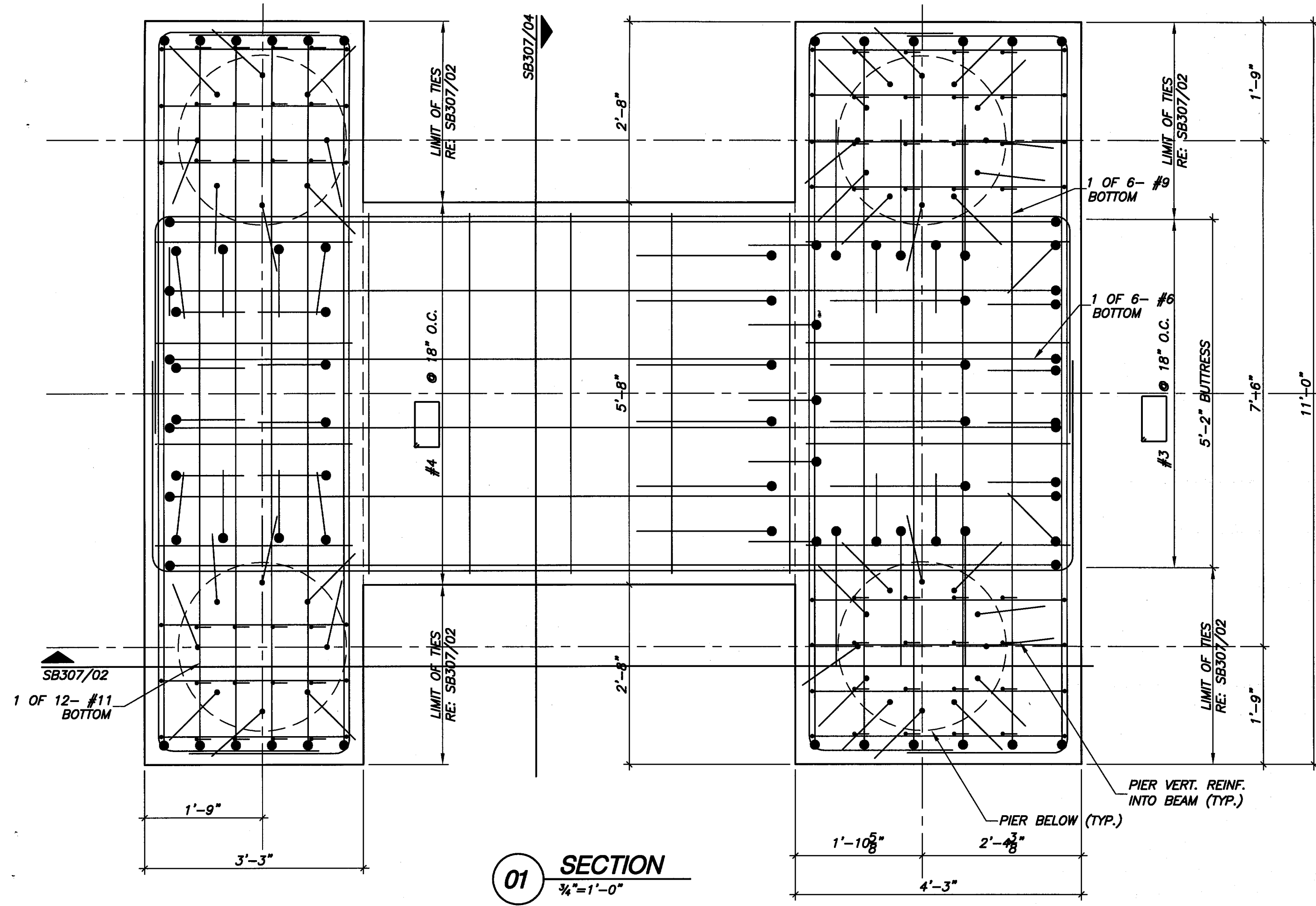
**06 SECTION**  
N.T.S.



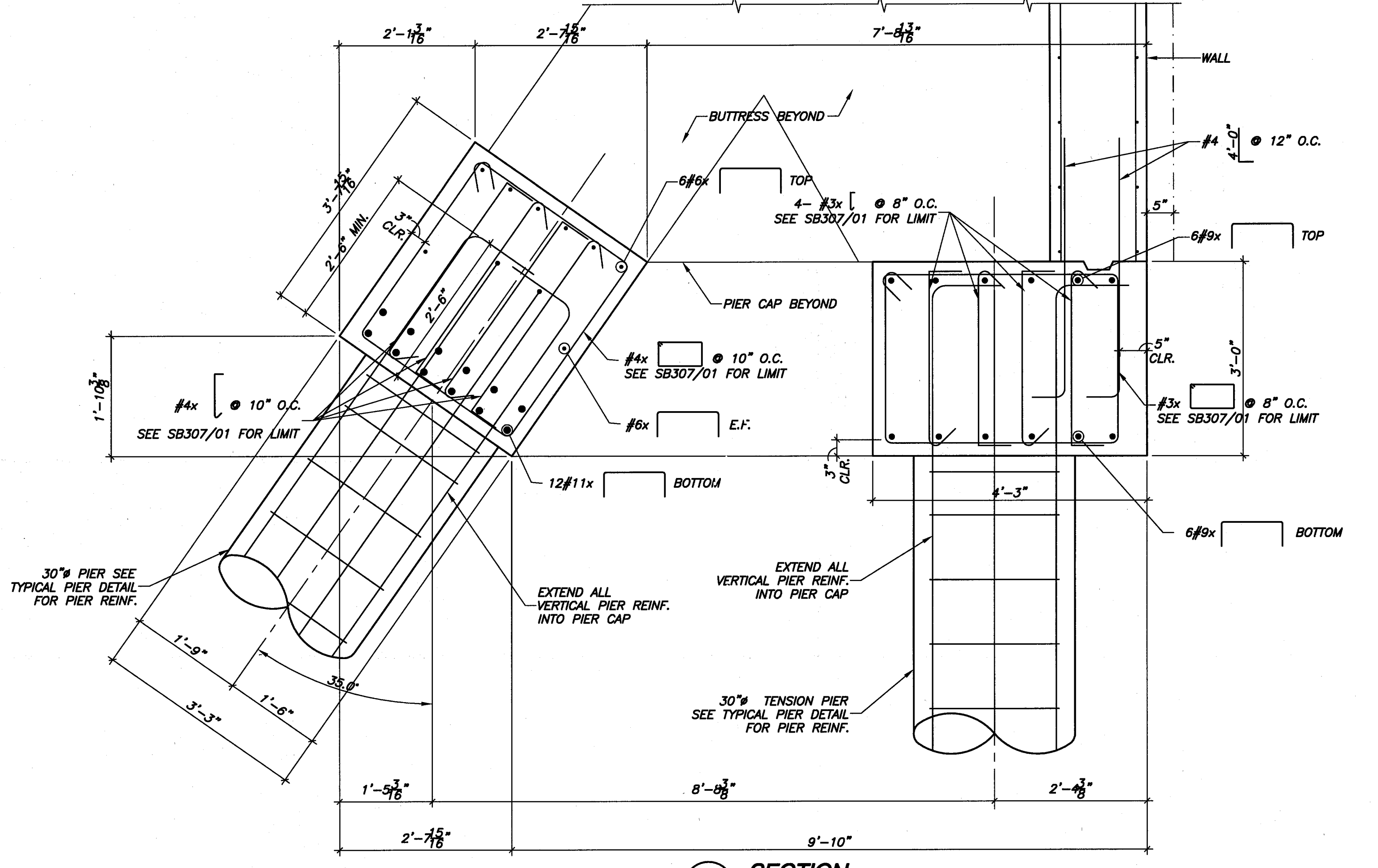
**07 SECTION**  
N.T.S.



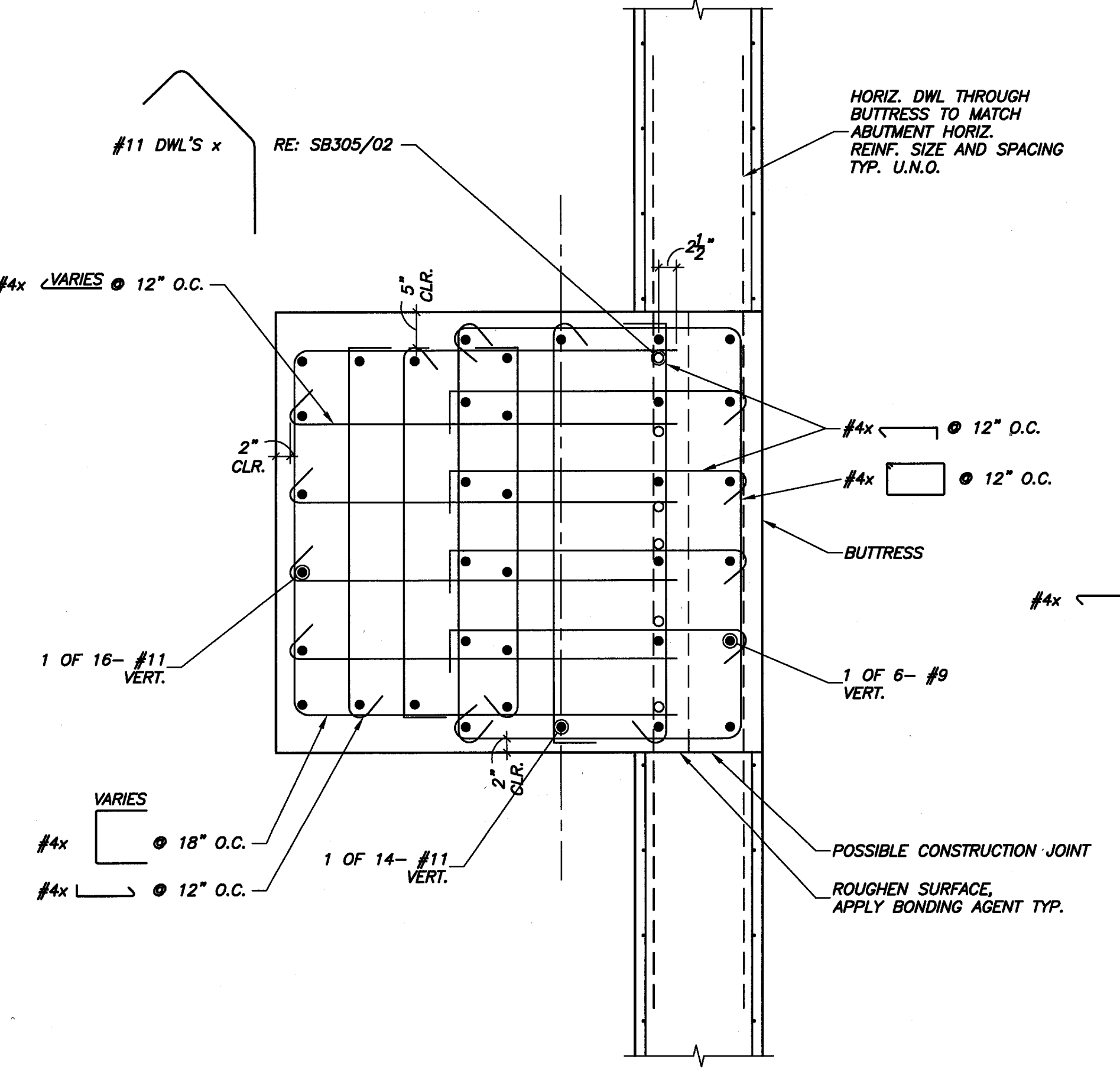
PRELIMINARY-FOR REVIEW ONLY		NOV. 25 2009	
NO.	REVISION	BY	DATE
<b>ADDISON</b> TOWN OF ADDISON DALLAS COUNTY, TEXAS VITRUVIAN PARK BRIDGES BELLA LANE <b>ABUTMENT SECTIONS &amp; DETAILS</b>			
<b>VIEWTECH, INC.</b> Structural Engineers		4205 Beltway Dr. - Addison, Texas 75001 (972) 661-8187 Fax (972) 661-8172	
PROJECT	DESIGN	DRAWN	DATE
2007.144	VL	NERF	NOV. 25 2009
			SHEET
			SB306 B



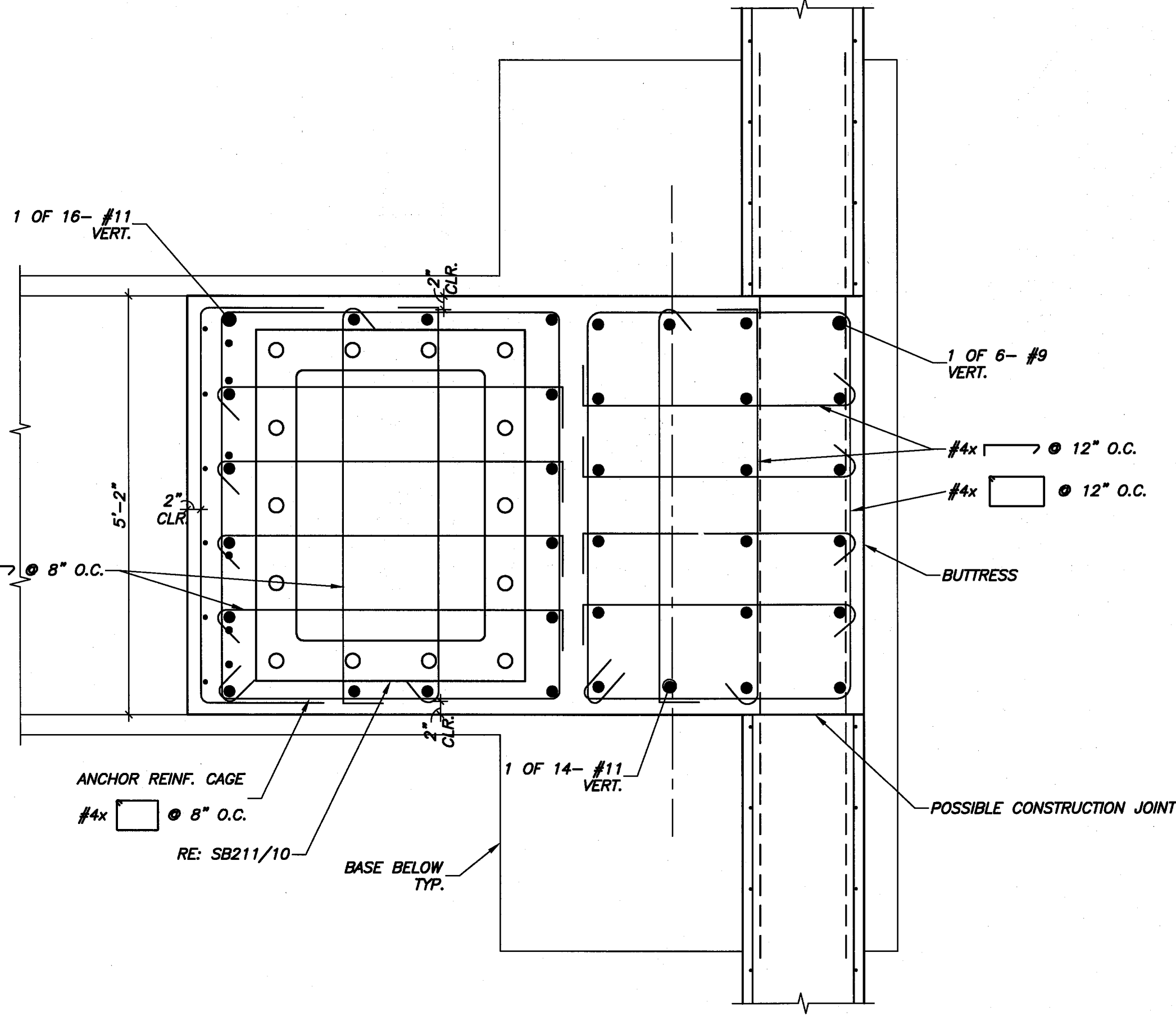
**01 SECTION**  
3/4"=1'-0"



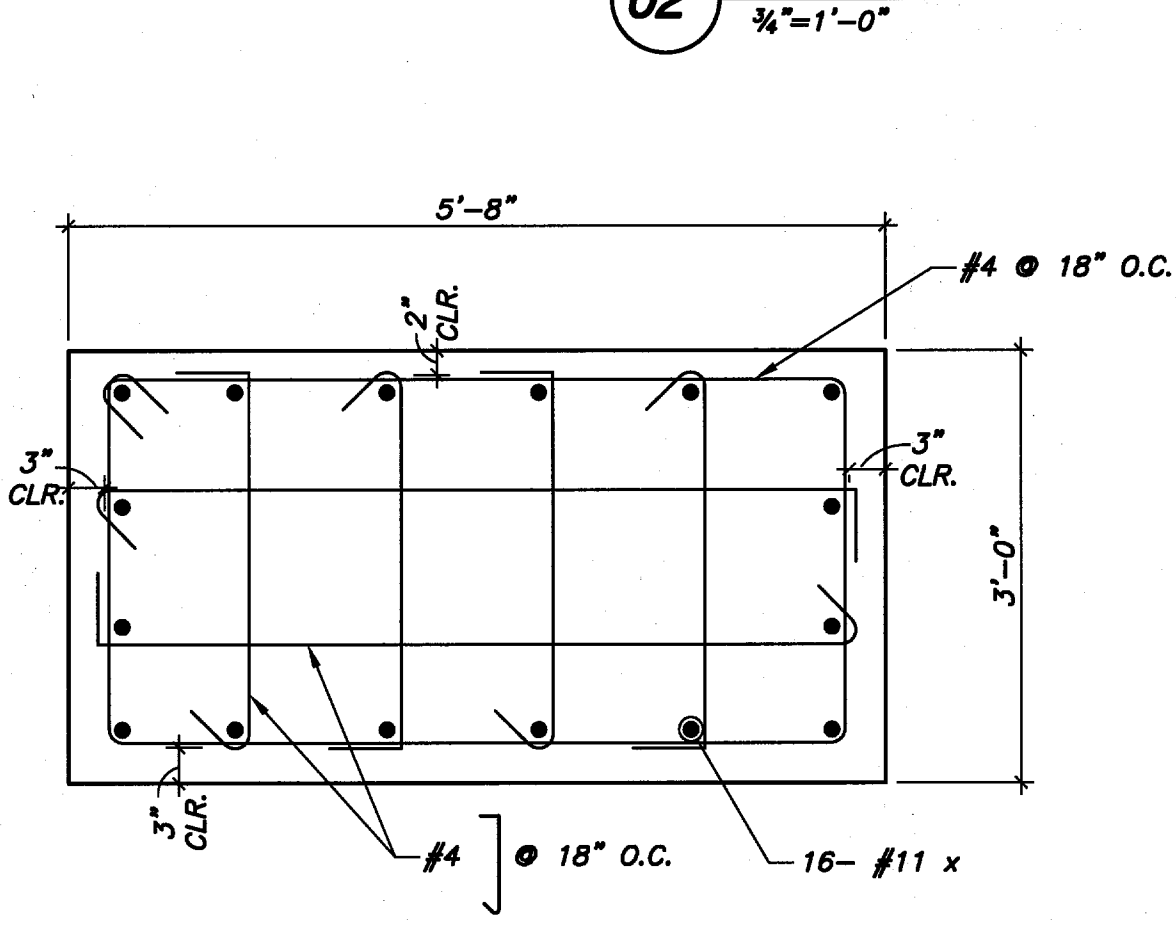
**02 SECTION**  
3/4"=1'-0"



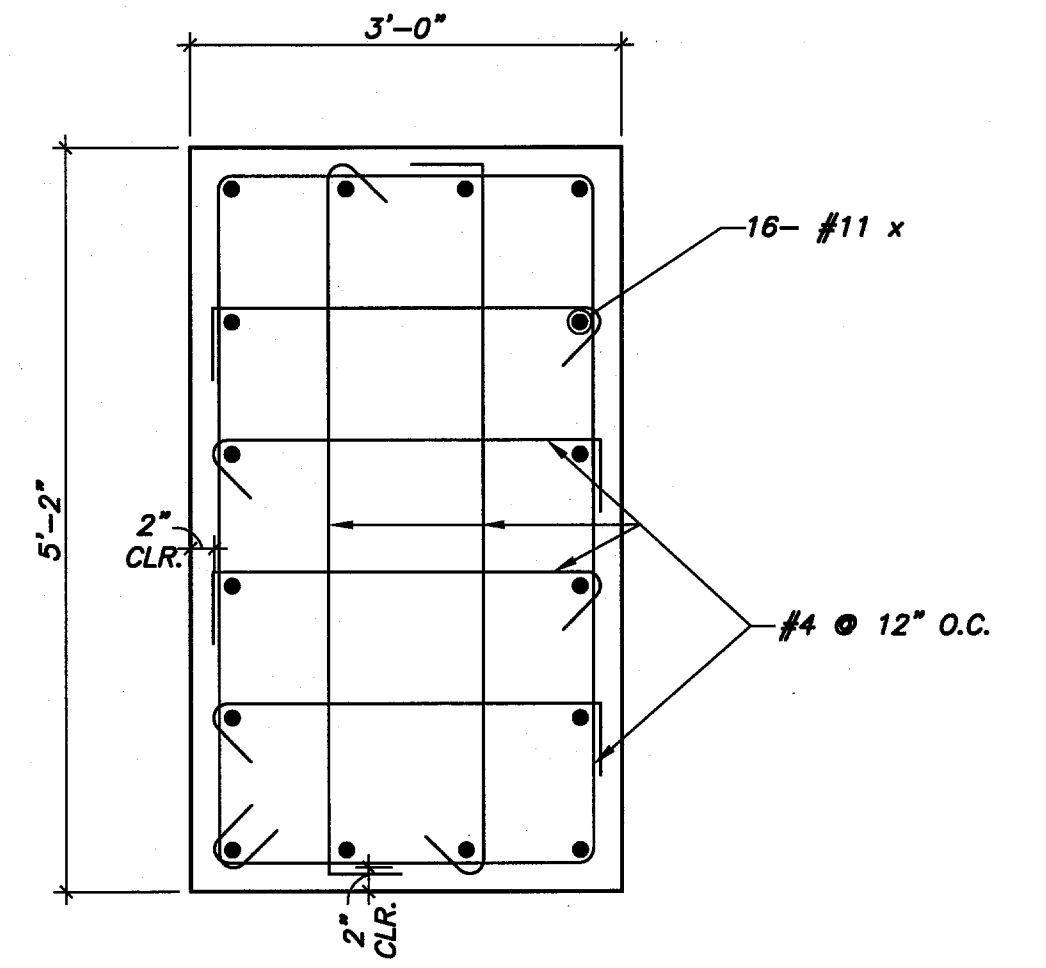
**03 SECTION**  
3/4"=1'-0"



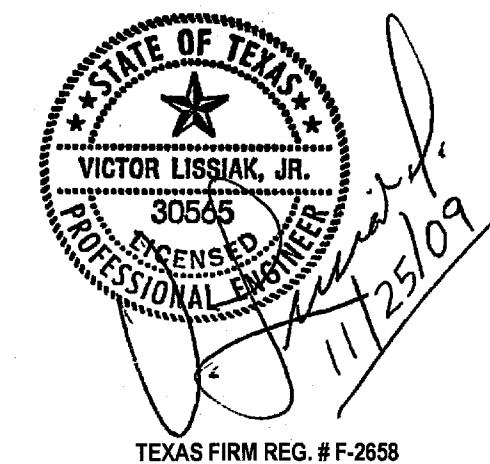
**06 SECTION**  
3/4"=1'-0"



**04 SECTION**  
3/4"=1'-0"



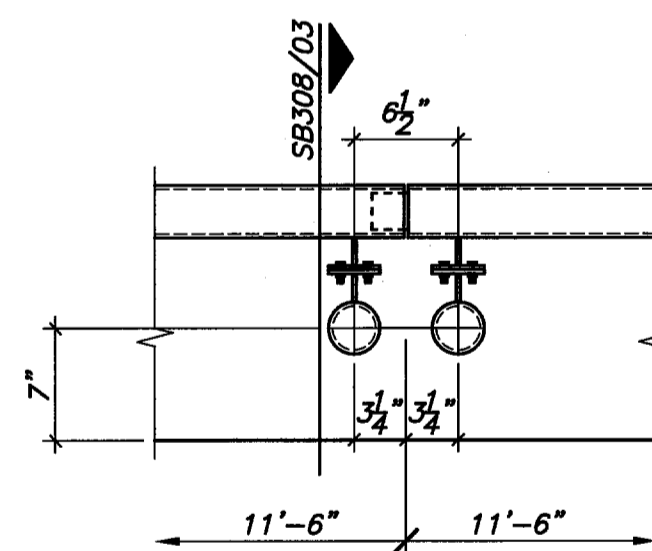
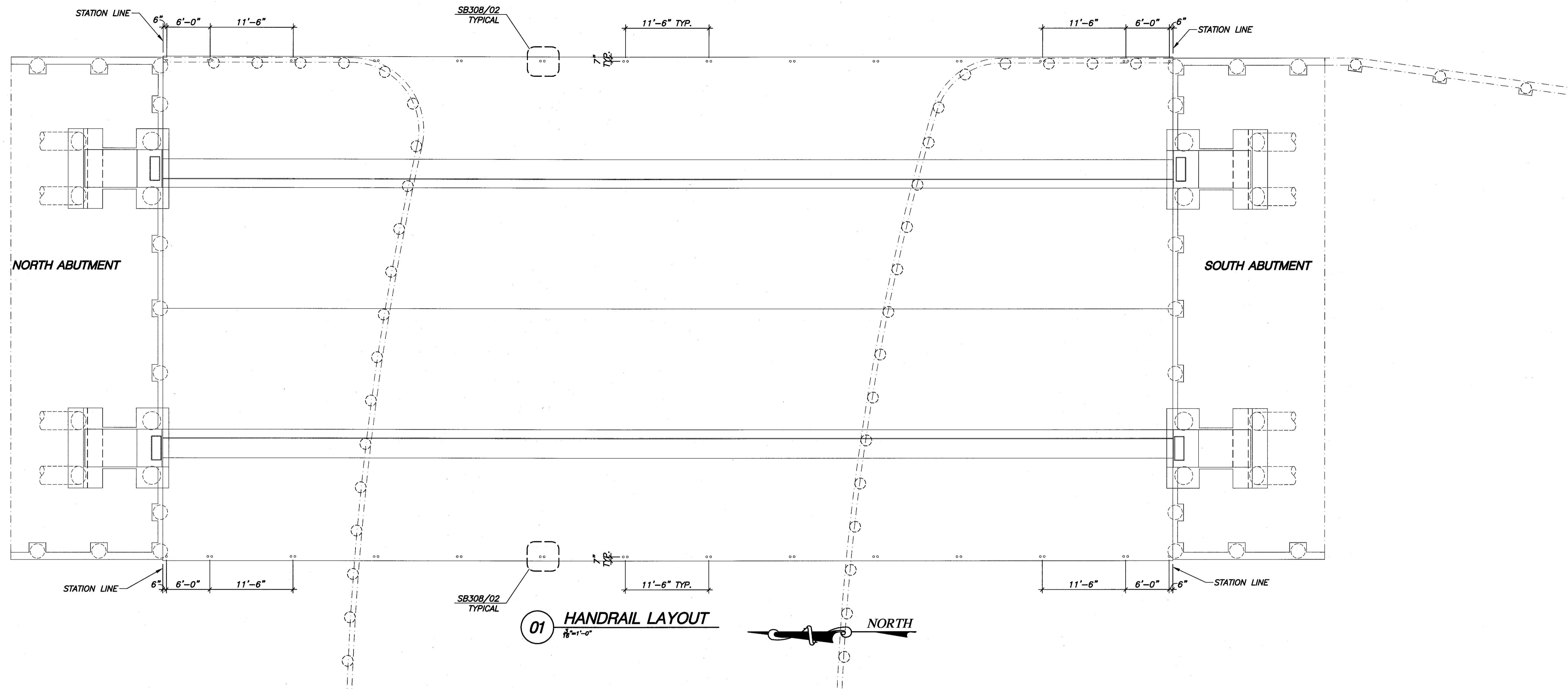
**05 SECTION**  
3/4"=1'-0"



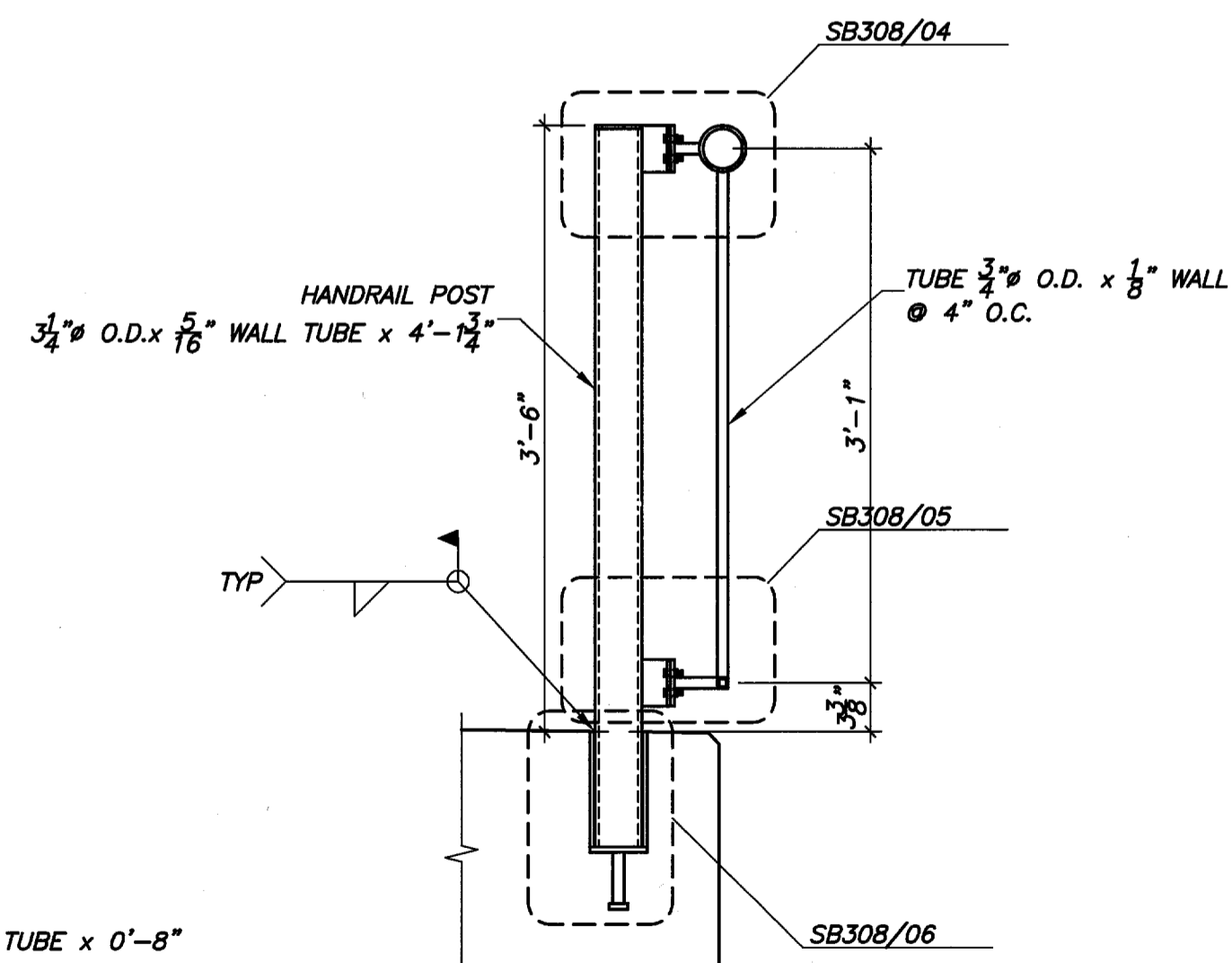
PRELIMINARY-FOR REVIEW ONLY		01/25/09	
NO.	REVISION	BY	DATE
TOWN OF ADDISON DALLAS COUNTY, TEXAS			
VITRUVIAN PARK BRIDGES BELLA LANE			
<b>BUTTRESS SECTIONS &amp; DETAILS</b>			
<b>VIEWTECH, INC.</b>		4205 Beltway Dr. - Addison, Texas 75001	
Structural Engineers		(972) 661-8187 Fax (972) 661-8172	
PROJECT	DESIGN	DRAWN	DATE
2007.144	VL	NERF	NOV. 25 2009
FILE			SHEET
-			<b>SB307</b>

TEXAS FIRM REG. # F-2658

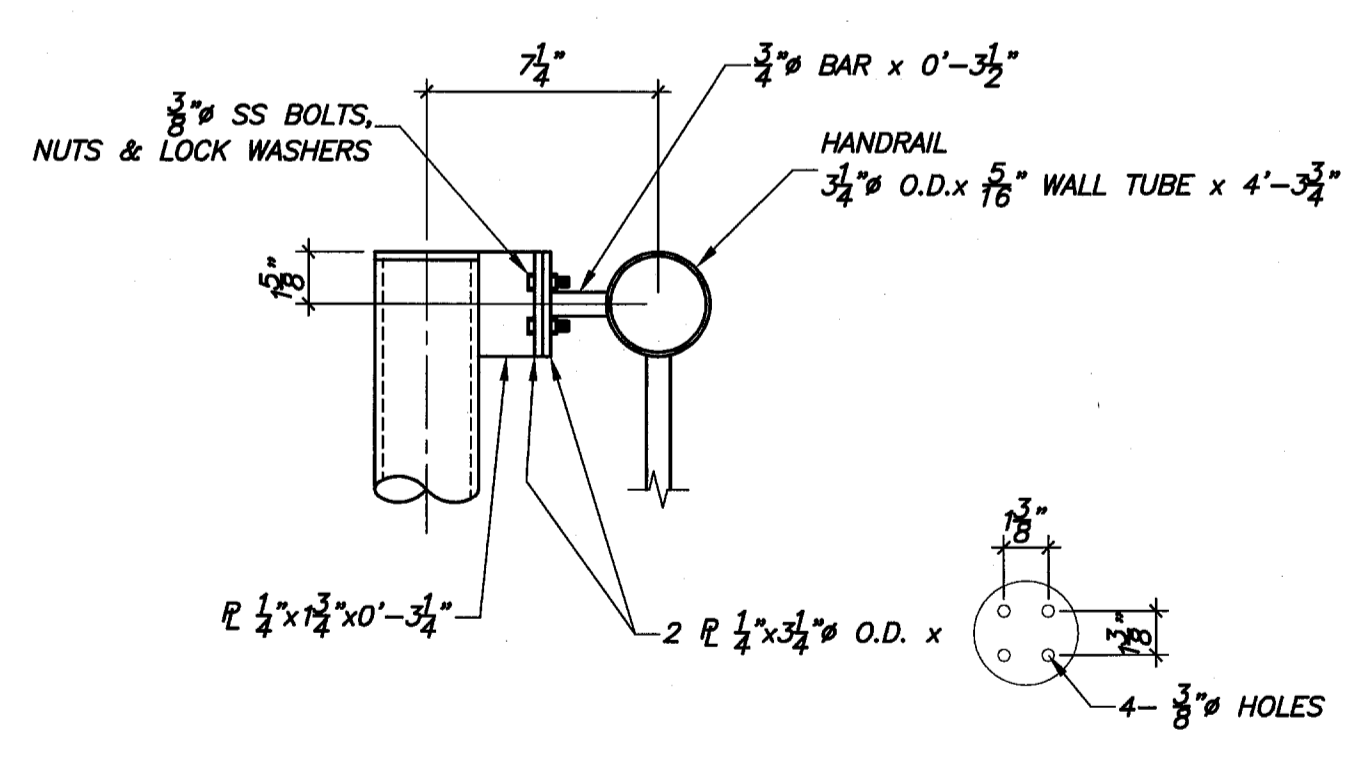




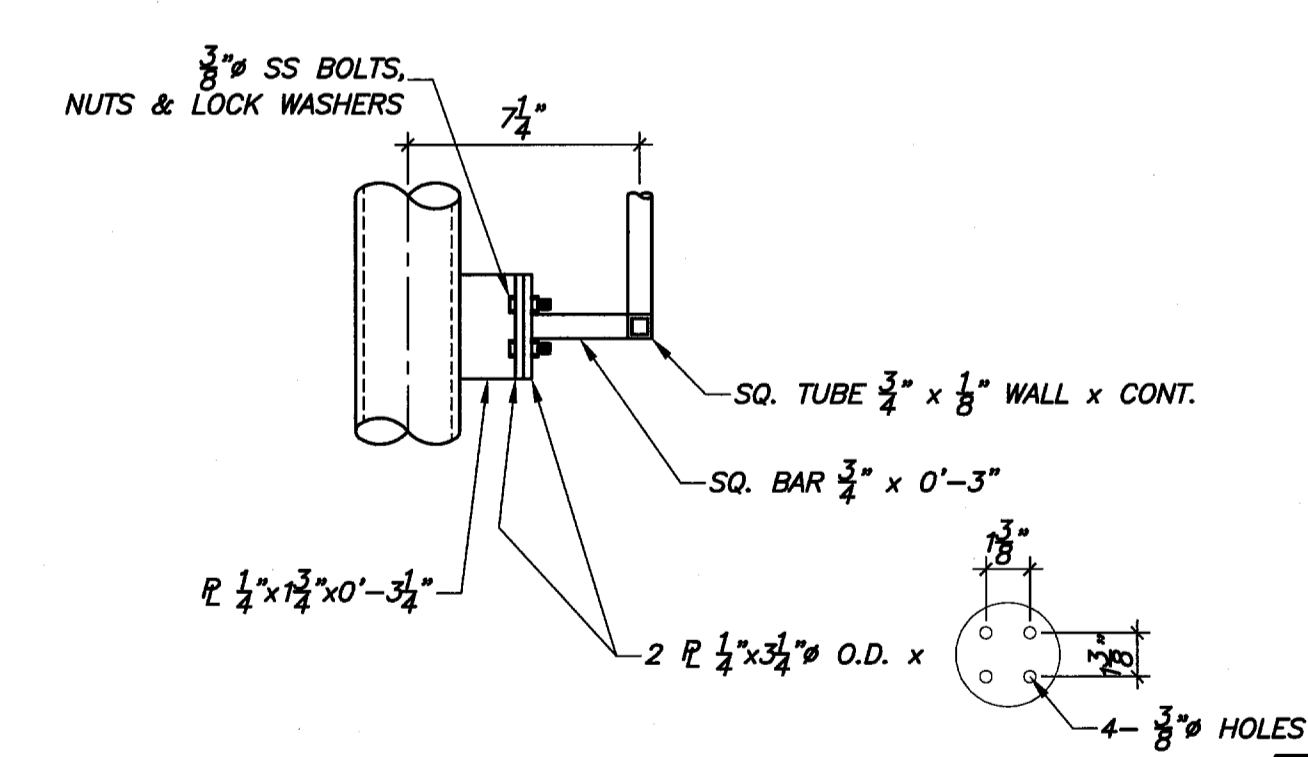
02 PARTIAL PLAN DETAIL  
1"=1'-0"



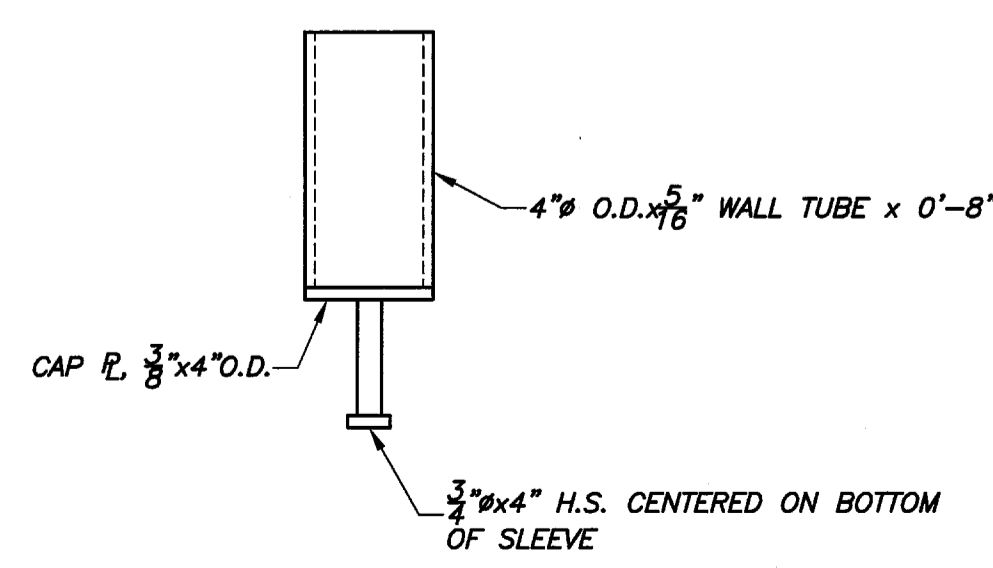
03 SECTION  
1"=1'-0"



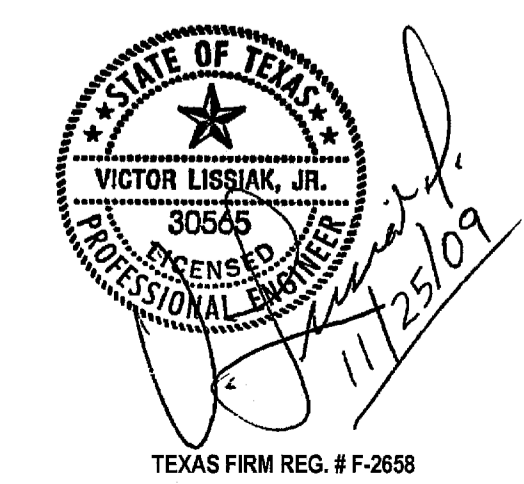
04 DETAIL  
N.T.S.



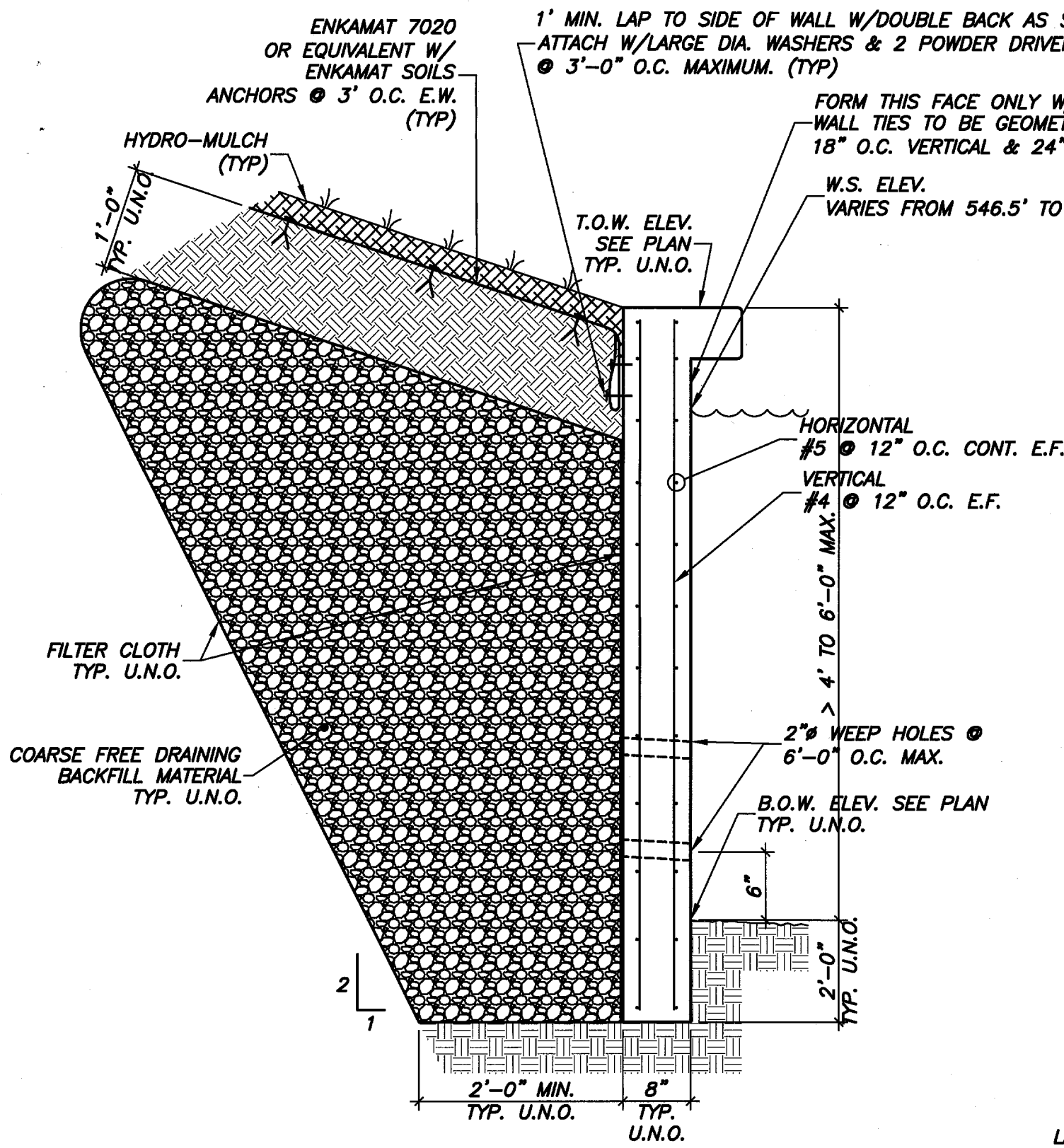
05 DETAIL  
N.T.S.



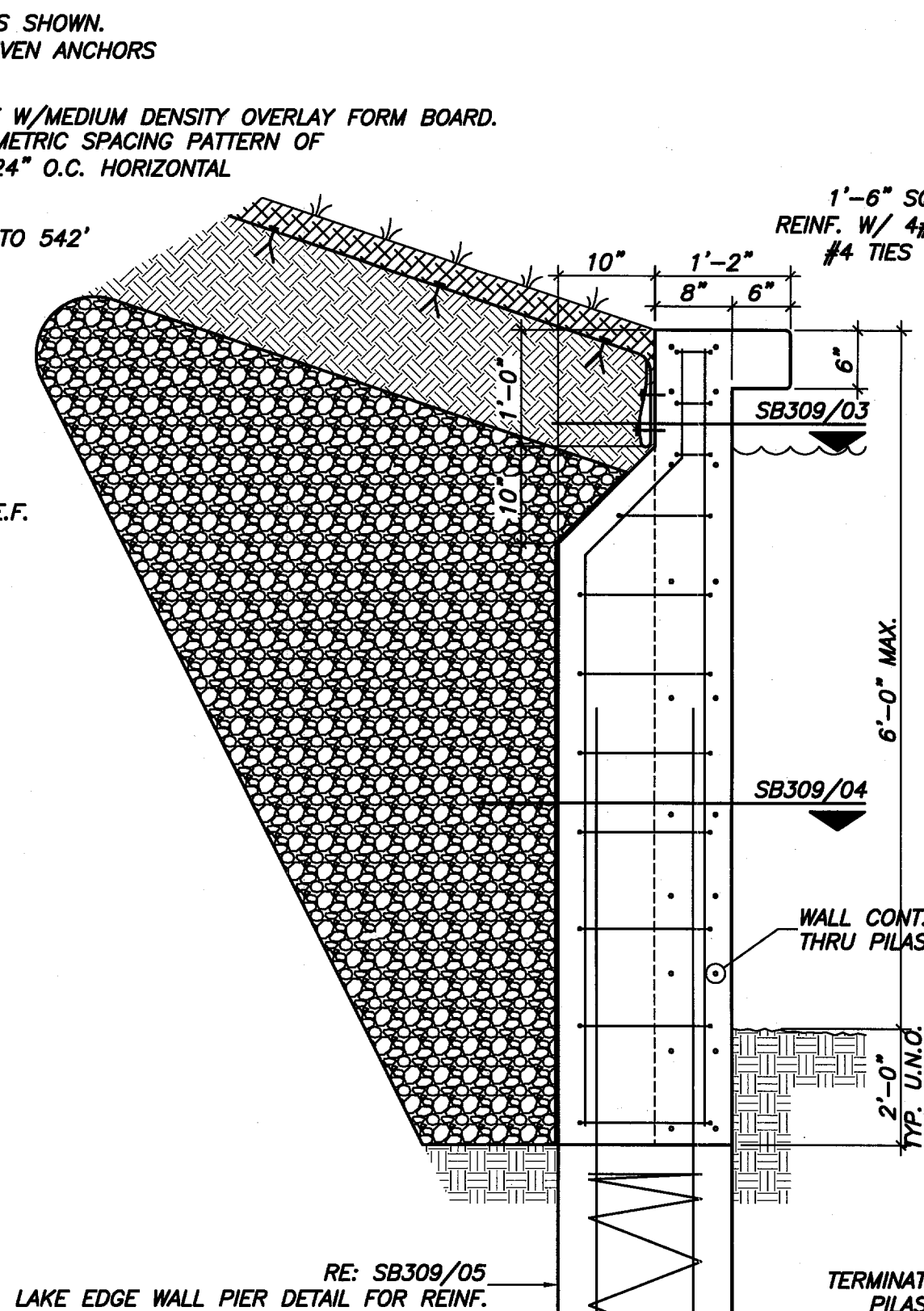
06 DETAIL  
N.T.S.



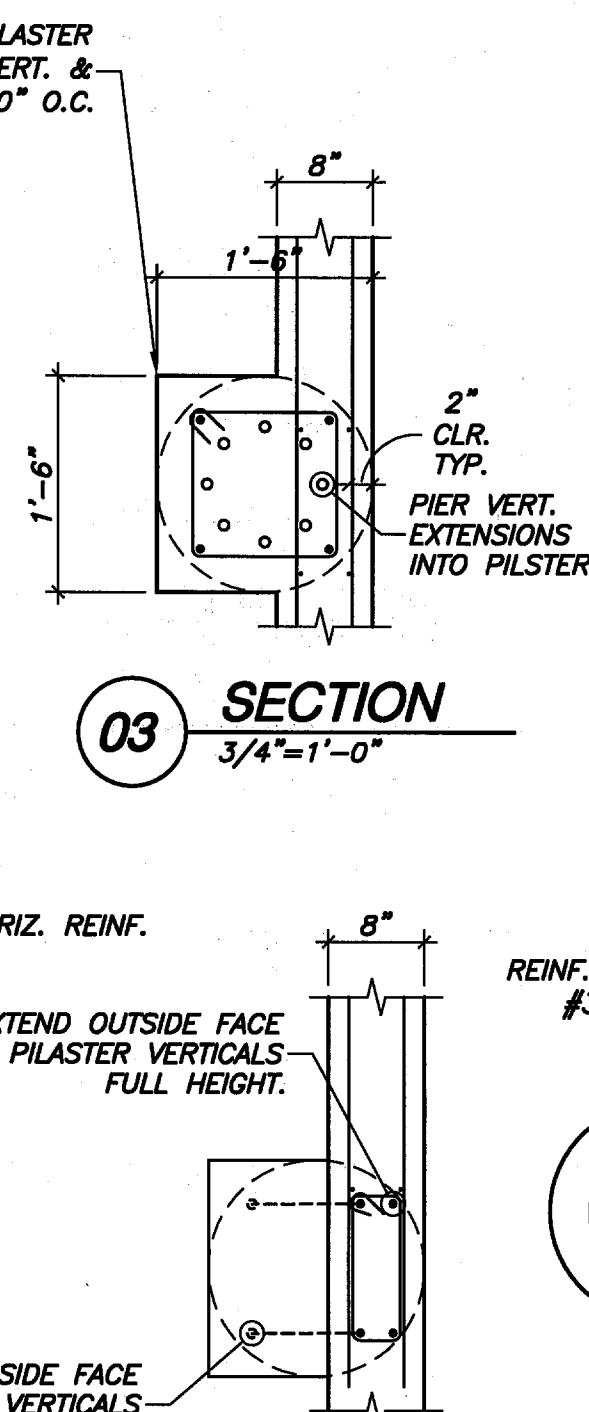
PRELIMINARY—FOR REVIEW ONLY		01/25/09	
NO.	REVISION	BY	DATE
TOWN OF ADDISON DALLAS COUNTY, TEXAS			
VITRUVIAN PARK BRIDGES BELLA LANE			
<b>HANDRAIL LAYOUT &amp; DETAILS</b>			
<b>VIEWTECH, INC.</b> Structural Engineers <small>4205 Beltway Dr. - Addison, Texas 75001 (972) 661-8187 Fax (972) 661-8172</small>			
PROJECT	DESIGN	DATE	FILE
2007.144	VL	NOV. 25 2009	-
			SHEET
			SB308



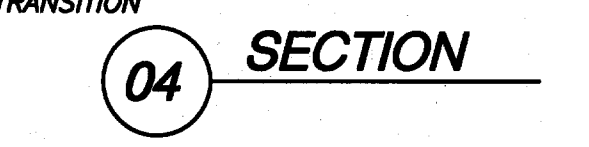
**01 LAKE EDGE WALL DETAIL SECTION**  
3/4"=1'-0"



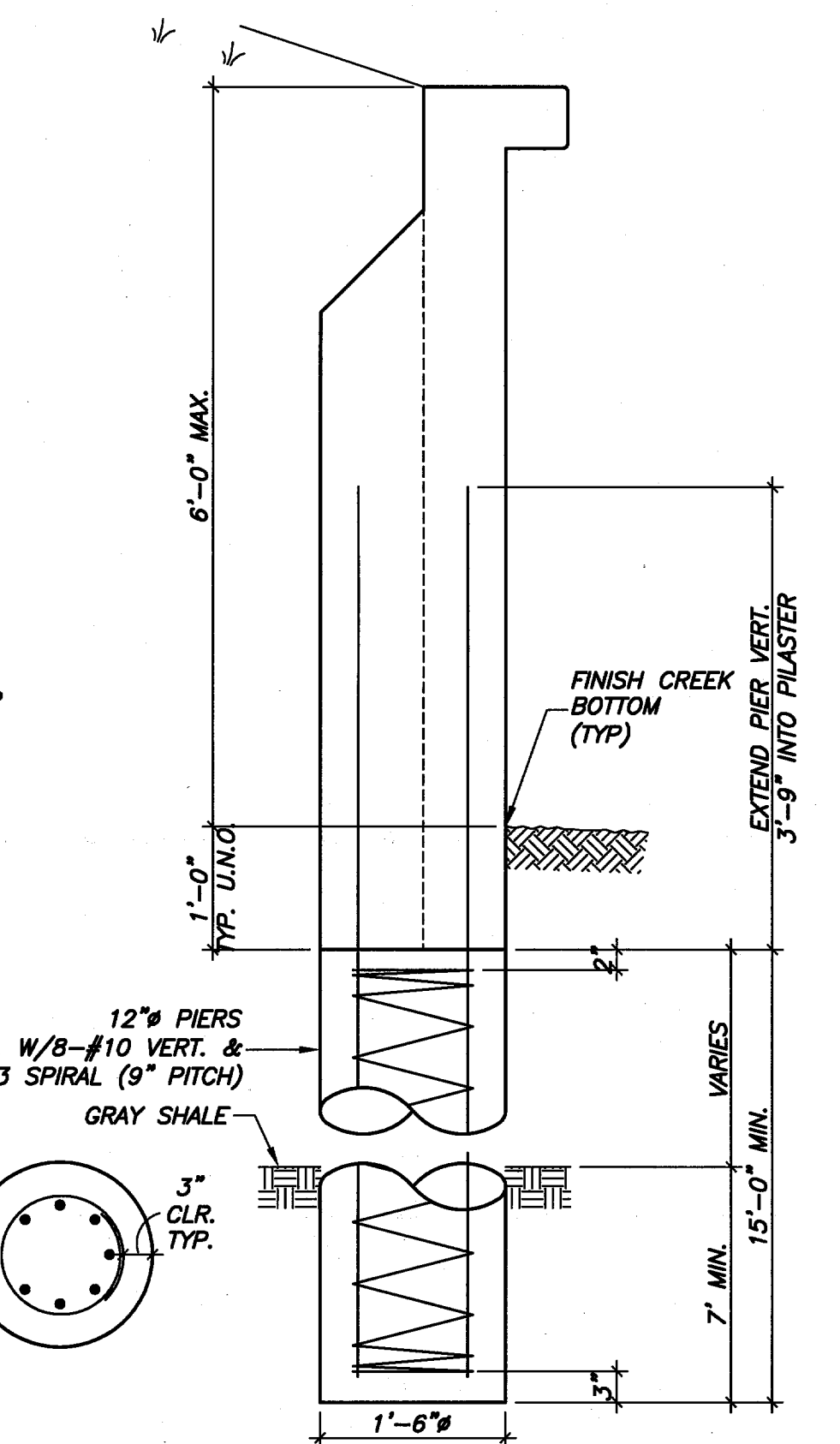
**02 LAKE EDGE WALL PILASTER SECTION**  
3/4"=1'-0"



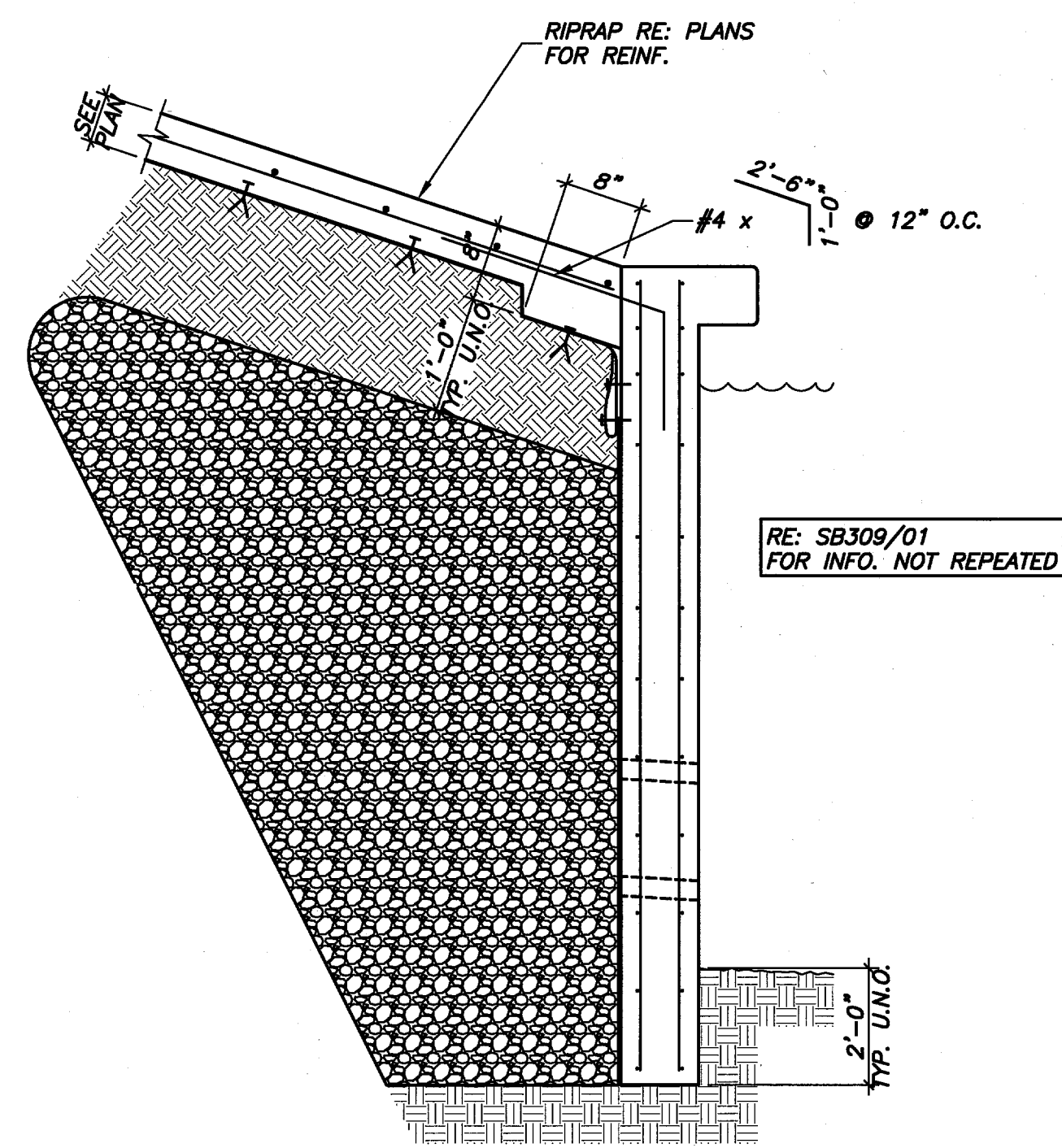
**03 SECTION**  
3/4"=1'-0"



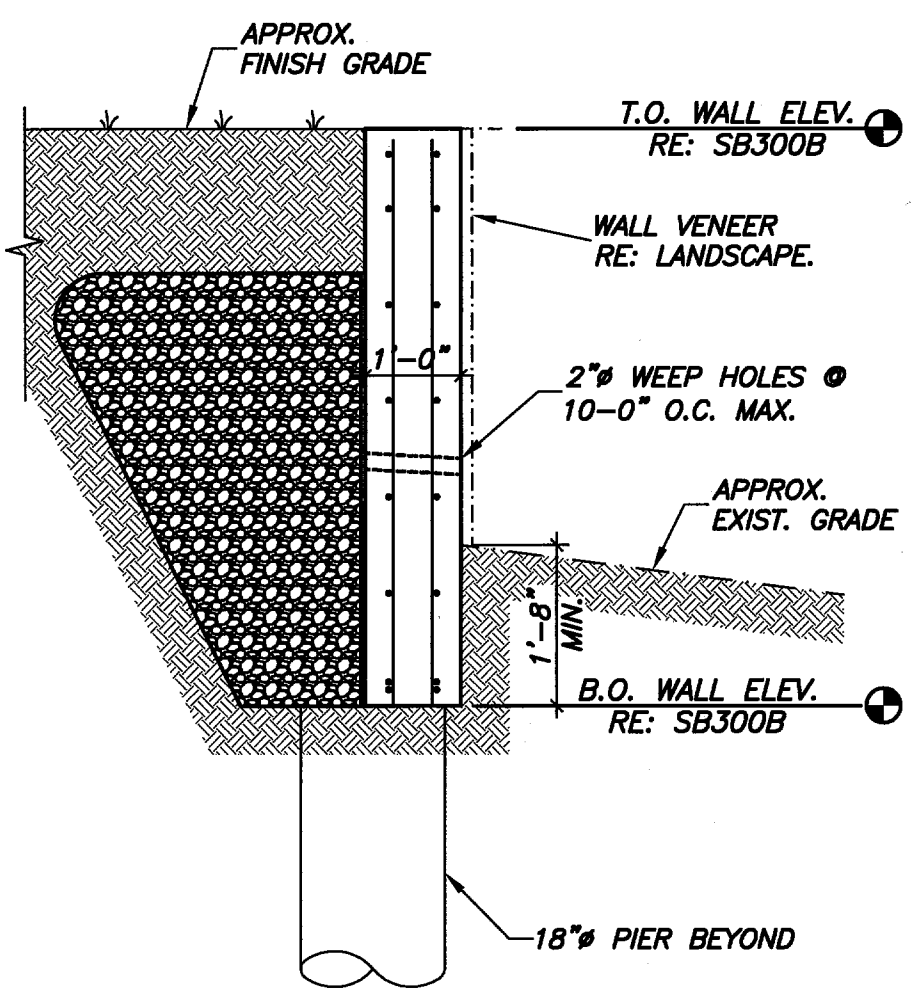
**04 SECTION**  
3/4"=1'-0"



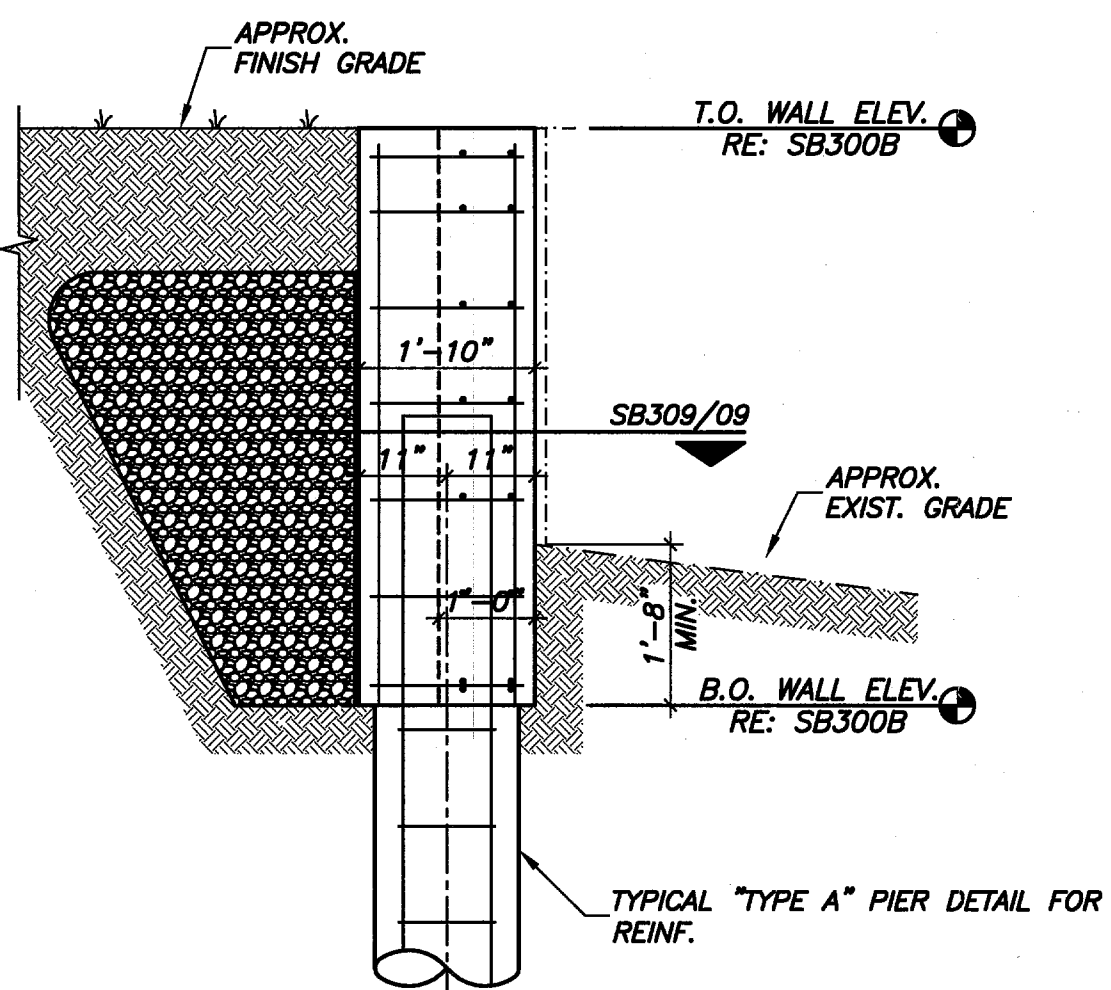
**05 PIER DETAIL FOR LAKE EDGE WALL SPACED AT 6'-0" O.C. MAX**  
3/4"=1'-0"



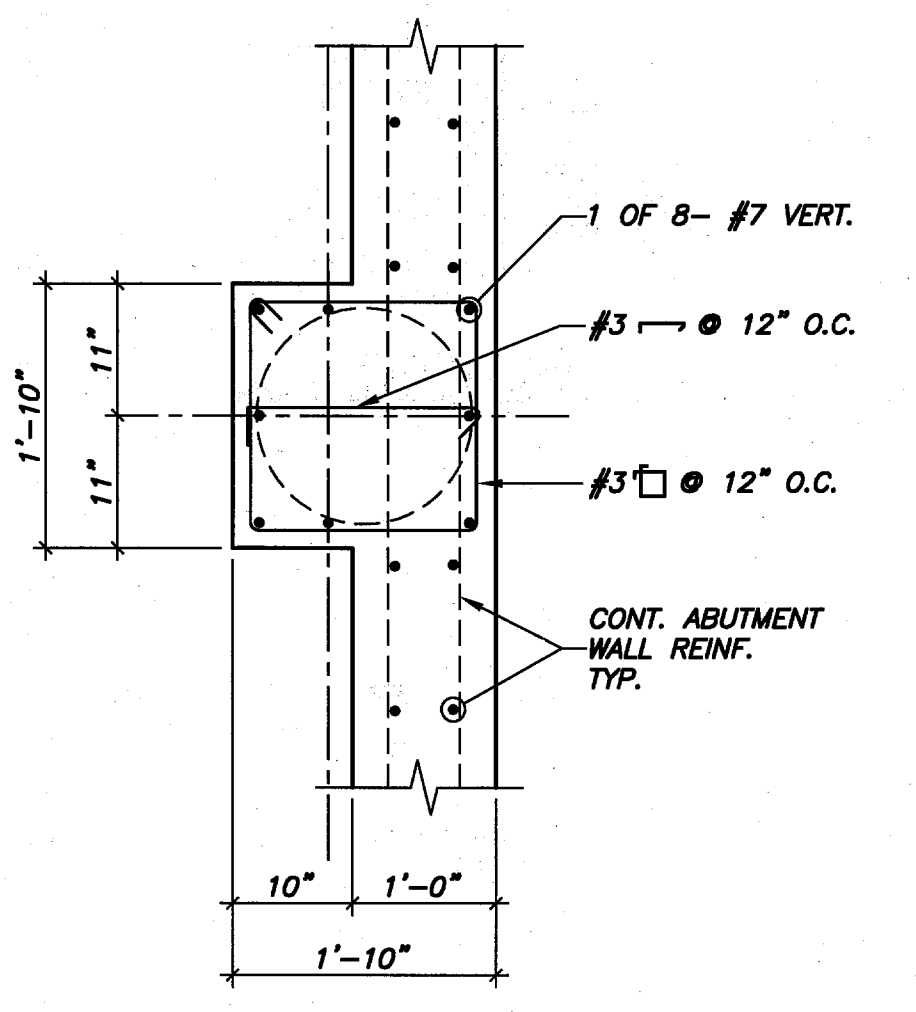
**06 SECTION**  
3/4"=1'-0"



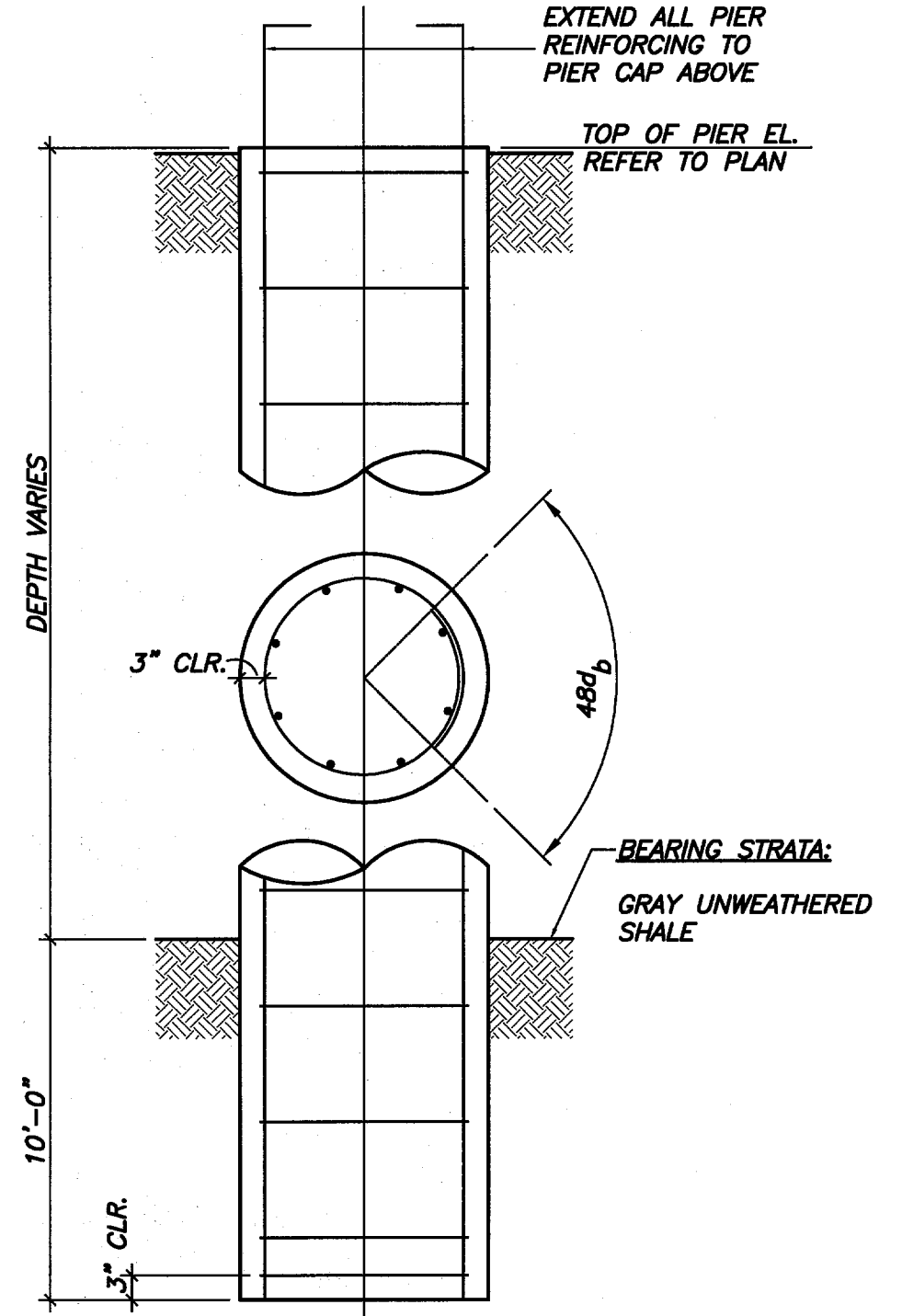
**07 SECTION**  
1/2"=1'-0"



**08 SECTION**  
1/2"=1'-0"

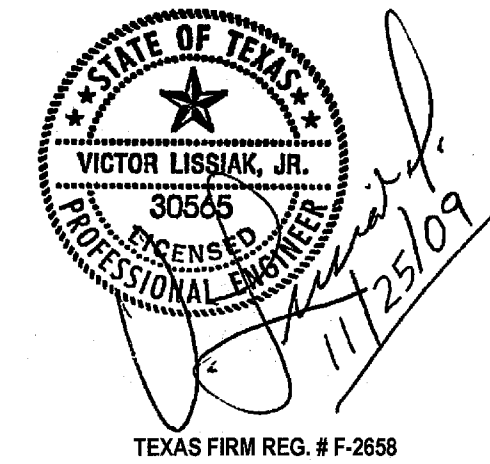


**09 SECTION**  
N.T.S.

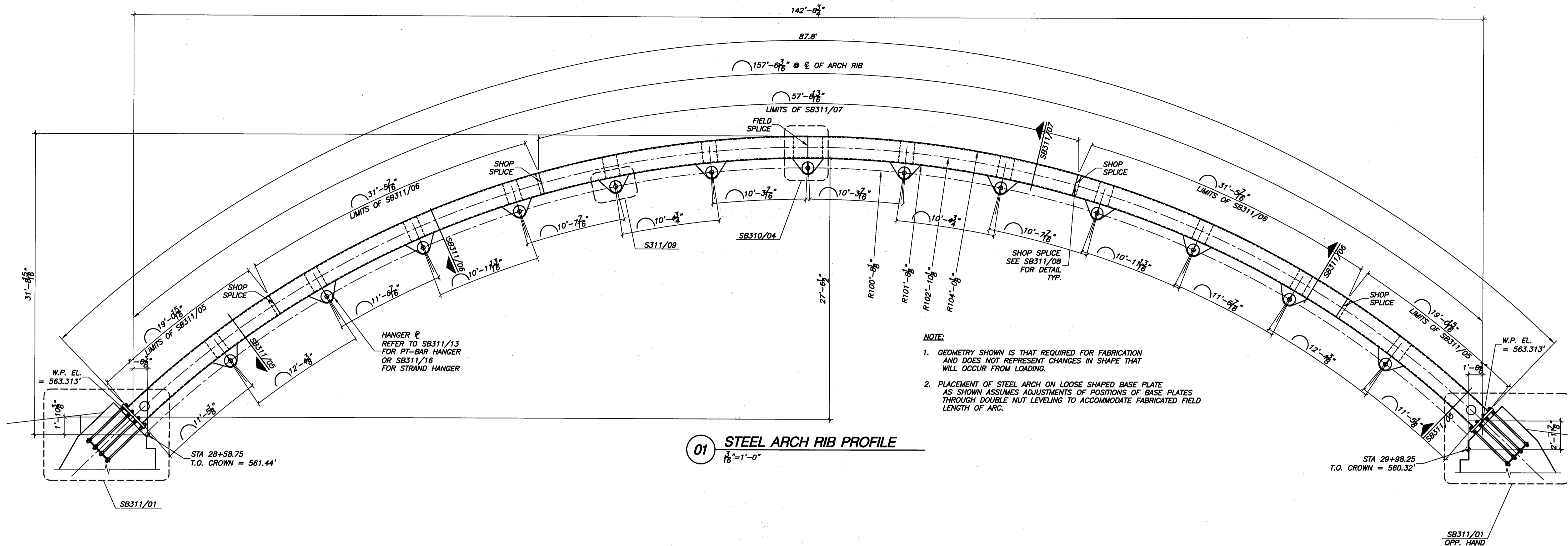


**'A' TYPICAL 'TYPE A' PIER DETAIL SPACED 12'-0" O.C. MAX.**  
N.T.S.

**TYPICAL PIER REINFORCING:**  
18" PIER SHAFT - TYPICAL  
6- #6 VERTICAL Fc' = 4000 PSI  
TIES:  
#3 @ 10" O.C.



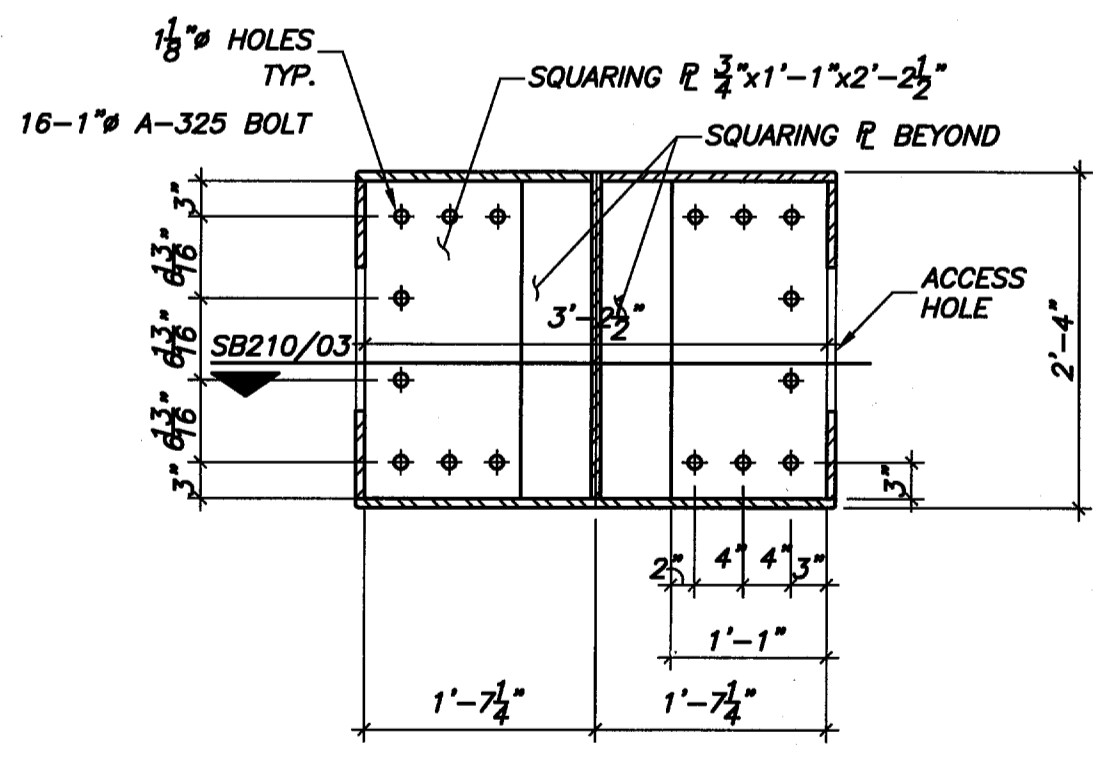
PRELIMINARY-FOR REVIEW ONLY				01/25/09
NO.	REVISION	BY	DATE	
<b>ADDISON TOWN OF ADDISON DALLAS COUNTY, TEXAS</b>				
<b>VITRUVIAN PARK BRIDGES BELLA LANE</b>				
<b>SECTIONS &amp; DETAILS</b>				
<b>VIEWTECH, INC.</b> Structural Engineers				
4205 Beltway Dr. - Addison, Texas 75001 (972) 661-8187 Fax (972) 661-8172				
PROJECT	DESIGN	DRAWN	DATE	SHEET
2007.144	VL	NERF	NOV. 25 2009	SB309



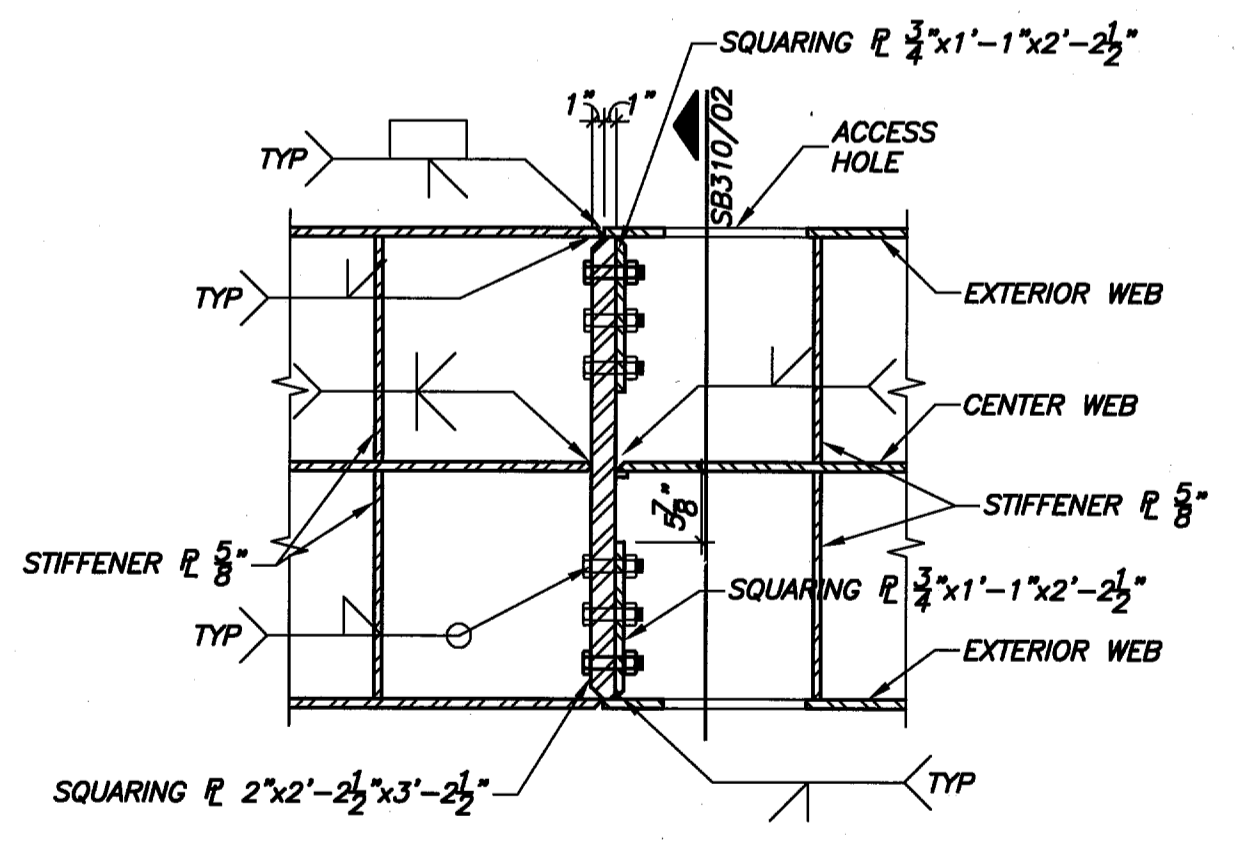
- NOTE:**
1. GEOMETRY SHOWN IS THAT REQUIRED FOR FABRICATION AND DOES NOT REPRESENT CHANGES IN SHAPE THAT WILL OCCUR FROM LOADING.
  2. PLACEMENT OF STEEL ARCH ON LOOSE SHAPED BASE PLATE AS SHOWN ASSUMES ADJUSTMENTS OF POSITIONS OF BASE PLATES THROUGH DOUBLE NUT LEVELING TO ACCOMMODATE FABRICATED FIELD LENGTH OF ARC.

**01 STEEL ARCH RIB PROFILE**  
3/4"=1'-0"

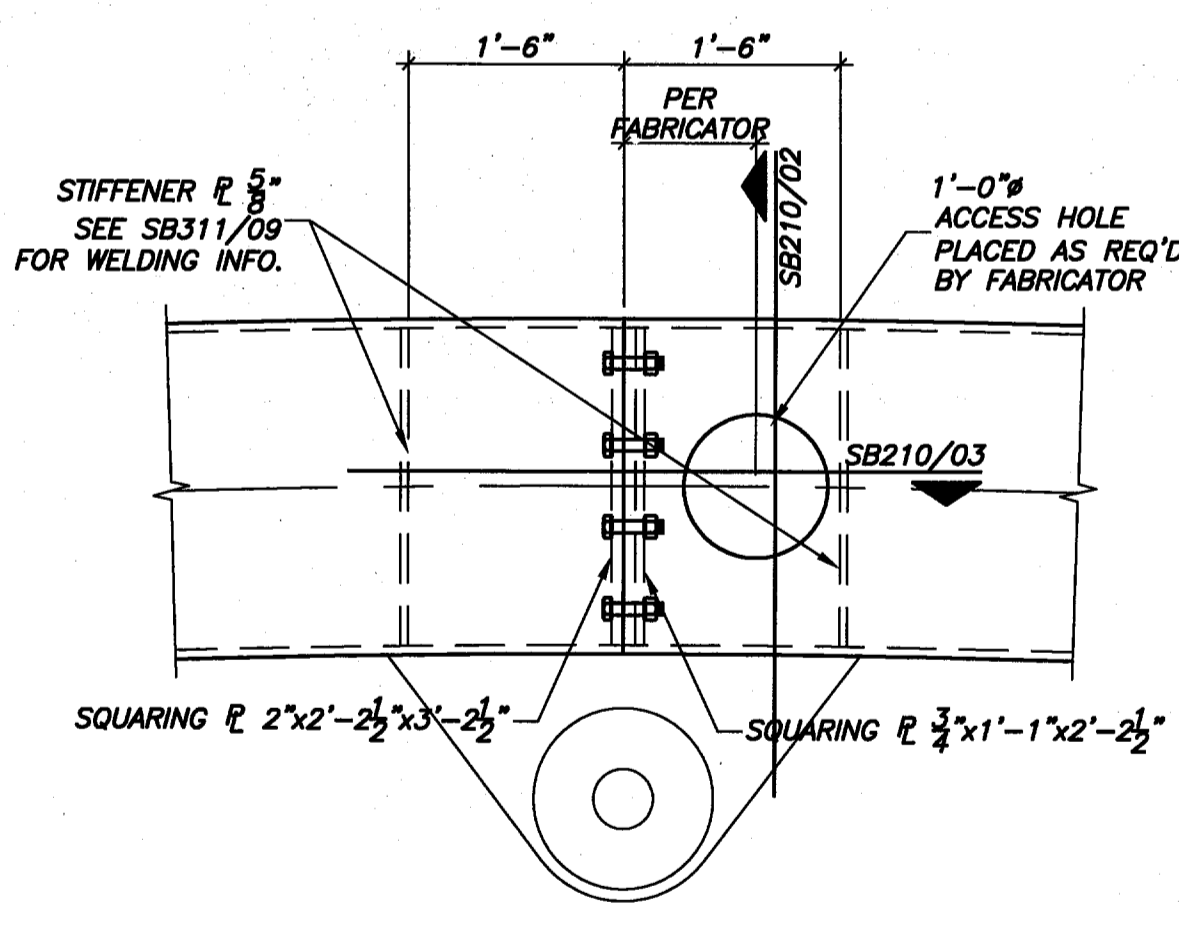
TABLE OF ESTIMATED QUANTITIES	
	PER ARCH
TONS OF STRUCTURAL STEEL	50



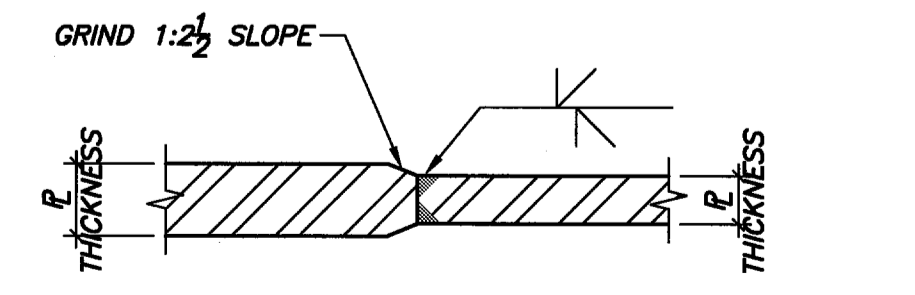
**02 SECTION**  
3/4"=1'-0"



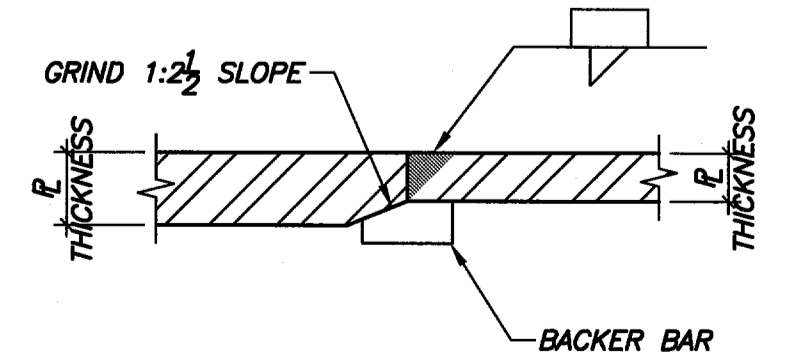
**03 FIELD SPLICE DETAIL PARTIAL PLAN VIEW**  
3/4"=1'-0"



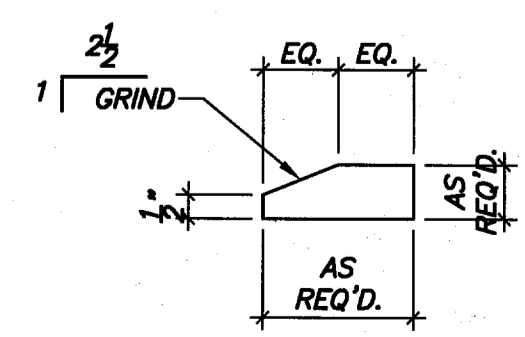
**04 FIELD SPLICE DETAIL ELEVATION VIEW**  
3/4"=1'-0"



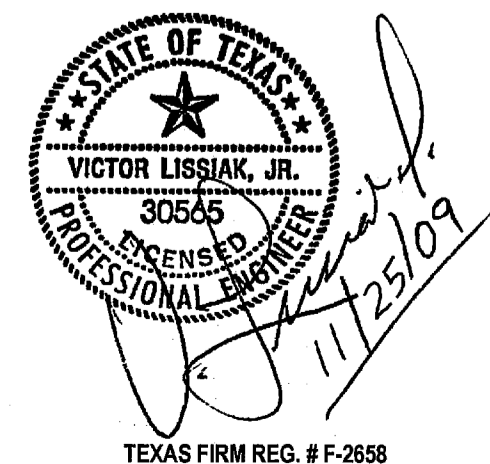
**05 TYPICAL CENTER WEB SHOP SPLICE DETAIL AT TRANSITION**  
3"=1'-0"



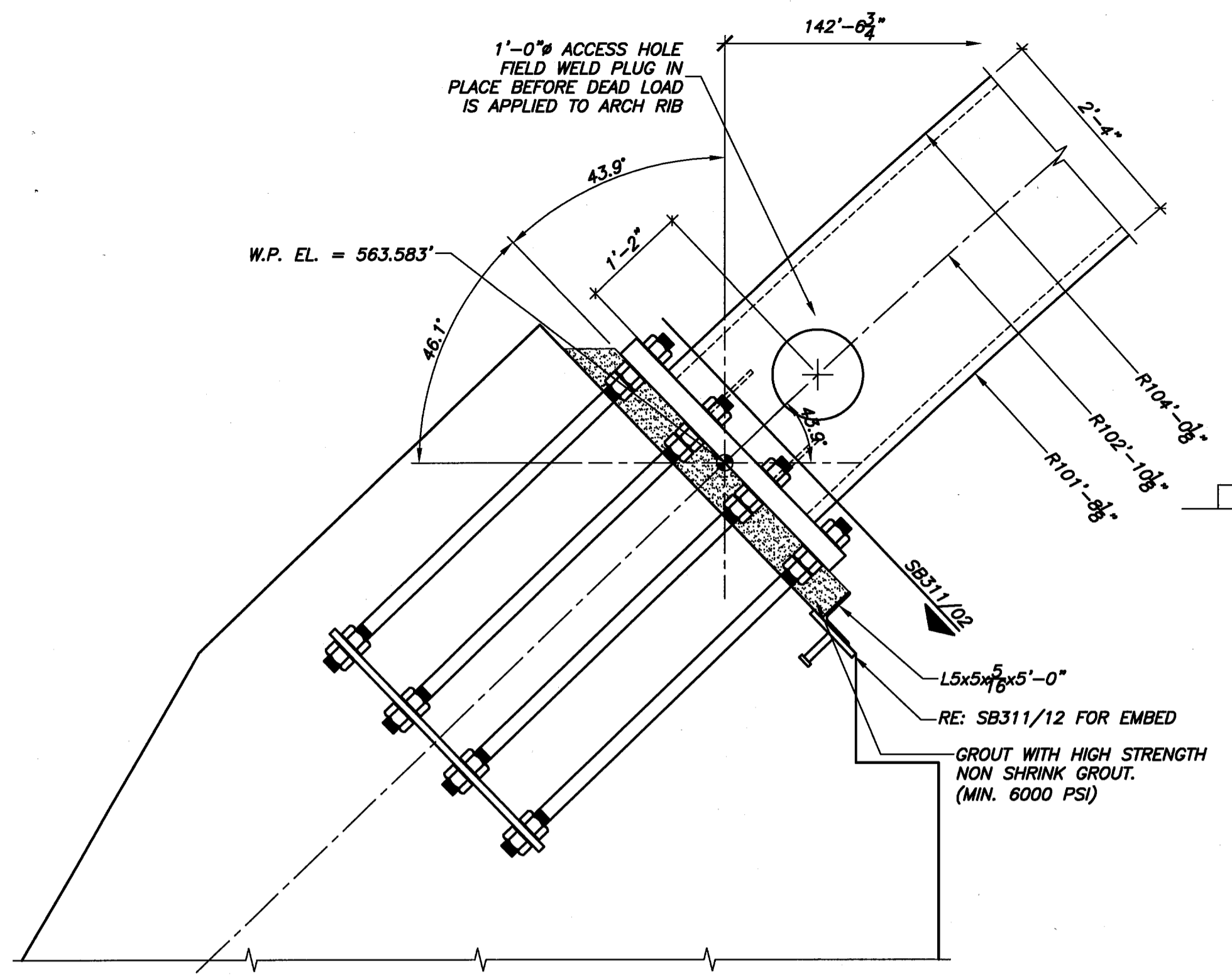
**06 TYPICAL SHOP SPLICE DETAIL AT TRANSITION**  
3"=1'-0"



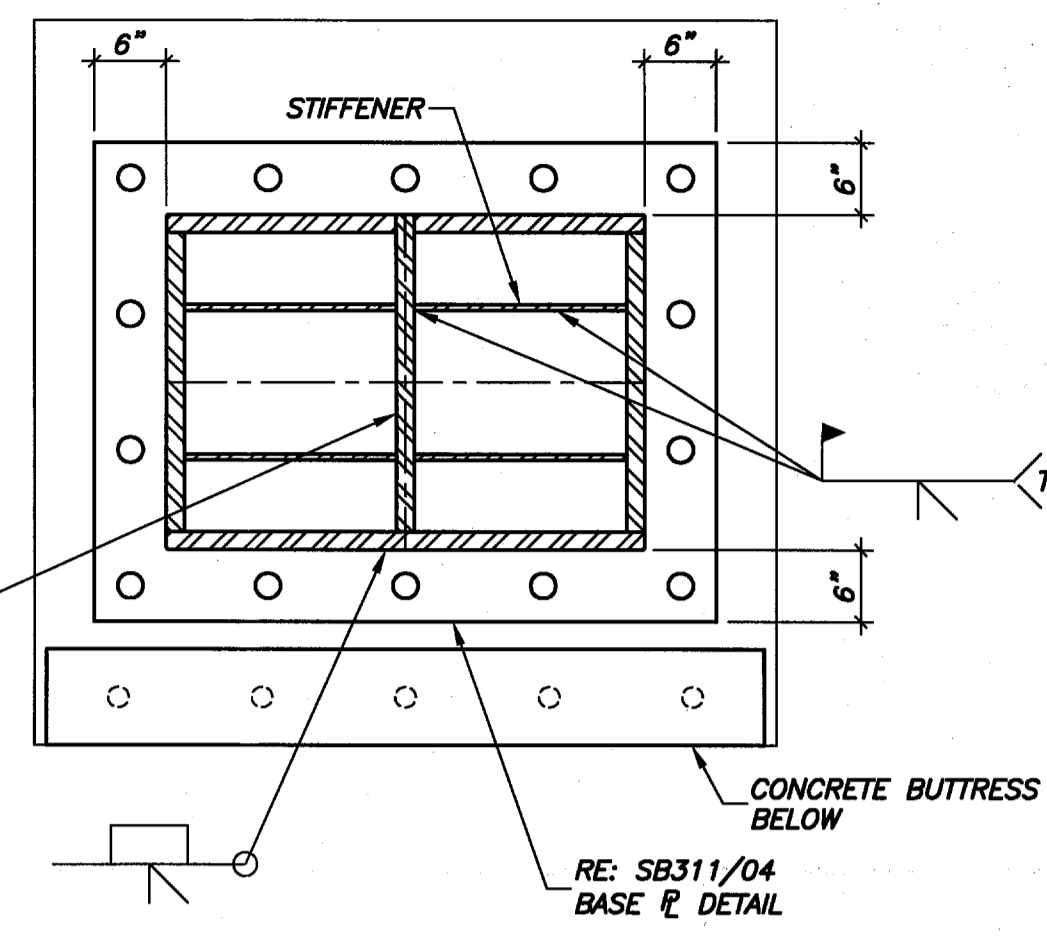
**07 BACKER BAR DETAIL**  
N.T.S.



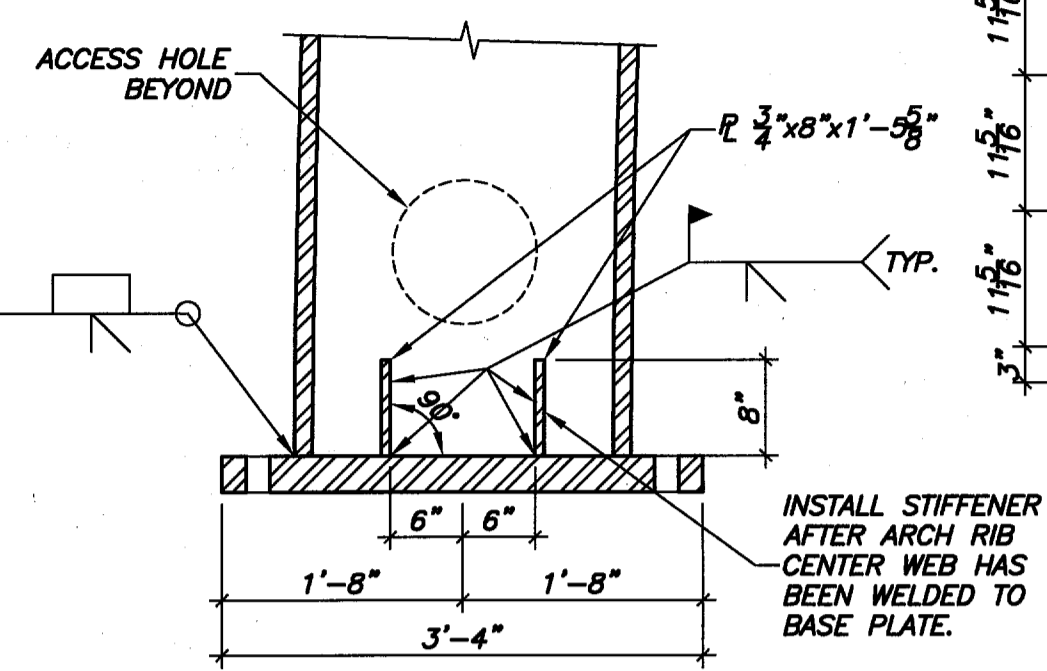
PRELIMINARY-FOR REVIEW ONLY						01/25/09
NO.	REVISION	BY	DATE			
TOWN OF ADDISON DALLAS COUNTY, TEXAS						
VITRUVIAN PARK BRIDGES BELLA LANE						
<b>STEEL ARCH RIB PROFILE</b>						
<b>VIEWTECH, INC.</b> Structural Engineers			4205 Beltway Dr. - Addison, Texas 75001 (972) 661-8187 Fax (972) 661-8172			
PROJECT	DESIGN	DRAWN	DATE	FILE	SHEET	
2007.144	VL	NERF	NOV. 25 2009	-	<b>SB310</b>	



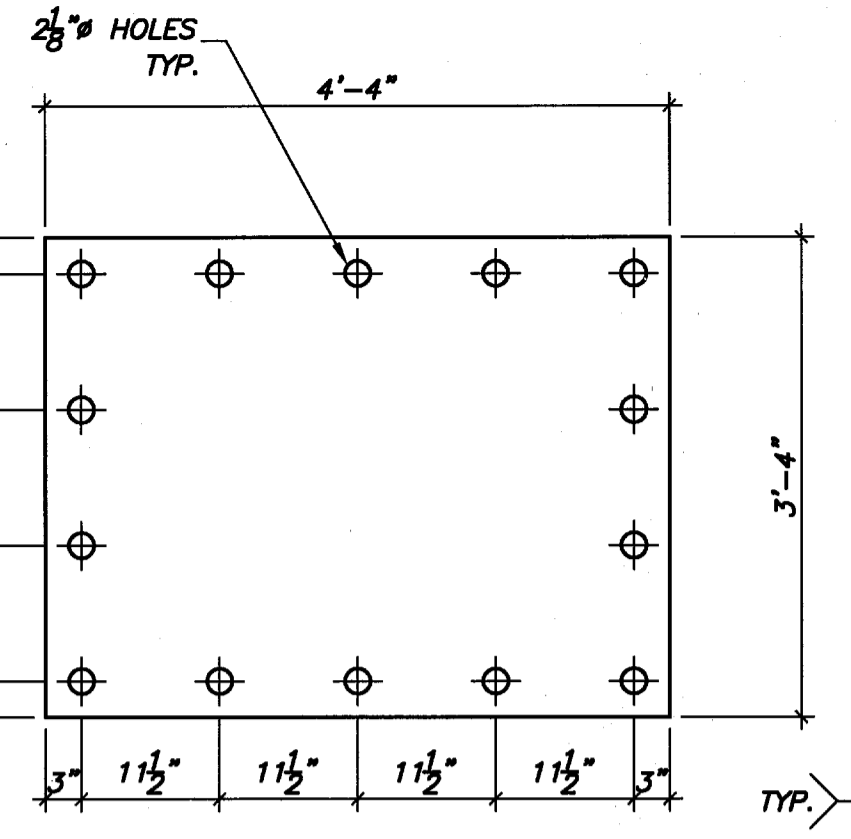
**01 DETAIL**  
3/4"=1'-0"



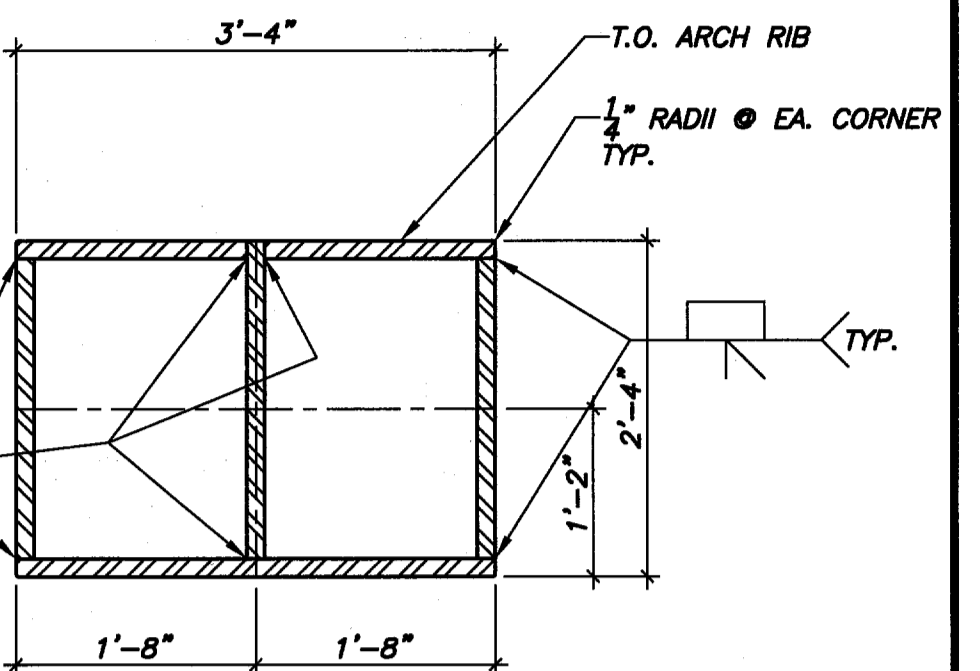
**02 DETAIL**  
3/4"=1'-0"



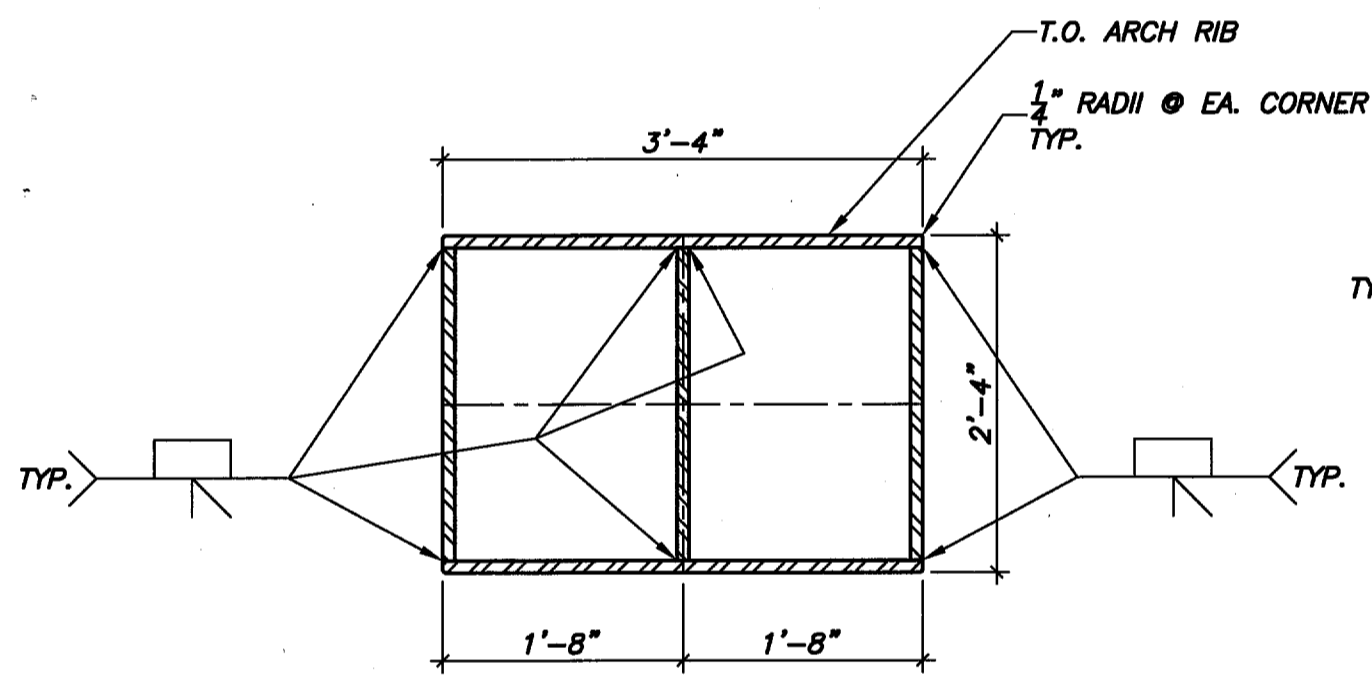
**03 SECTION**  
3/4"=1'-0"



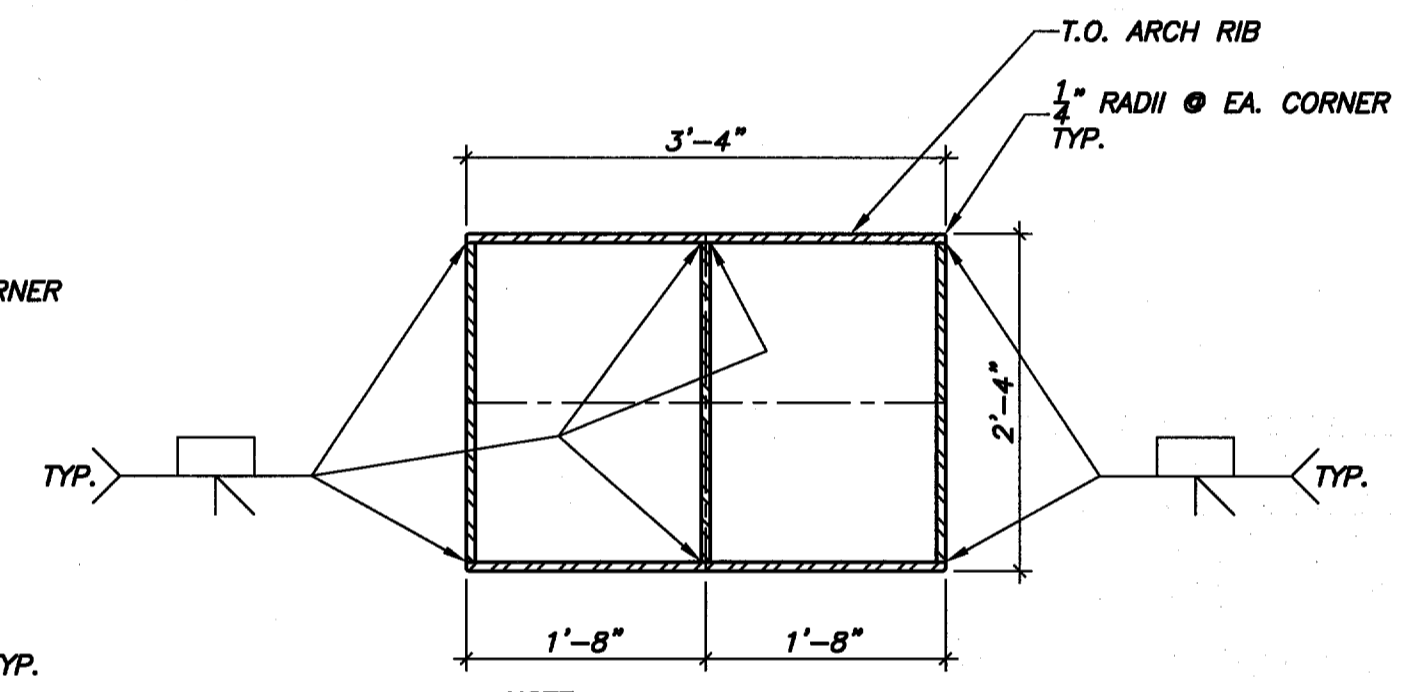
**04 BASE PLATE DETAIL**  
3/4"=1'-0"



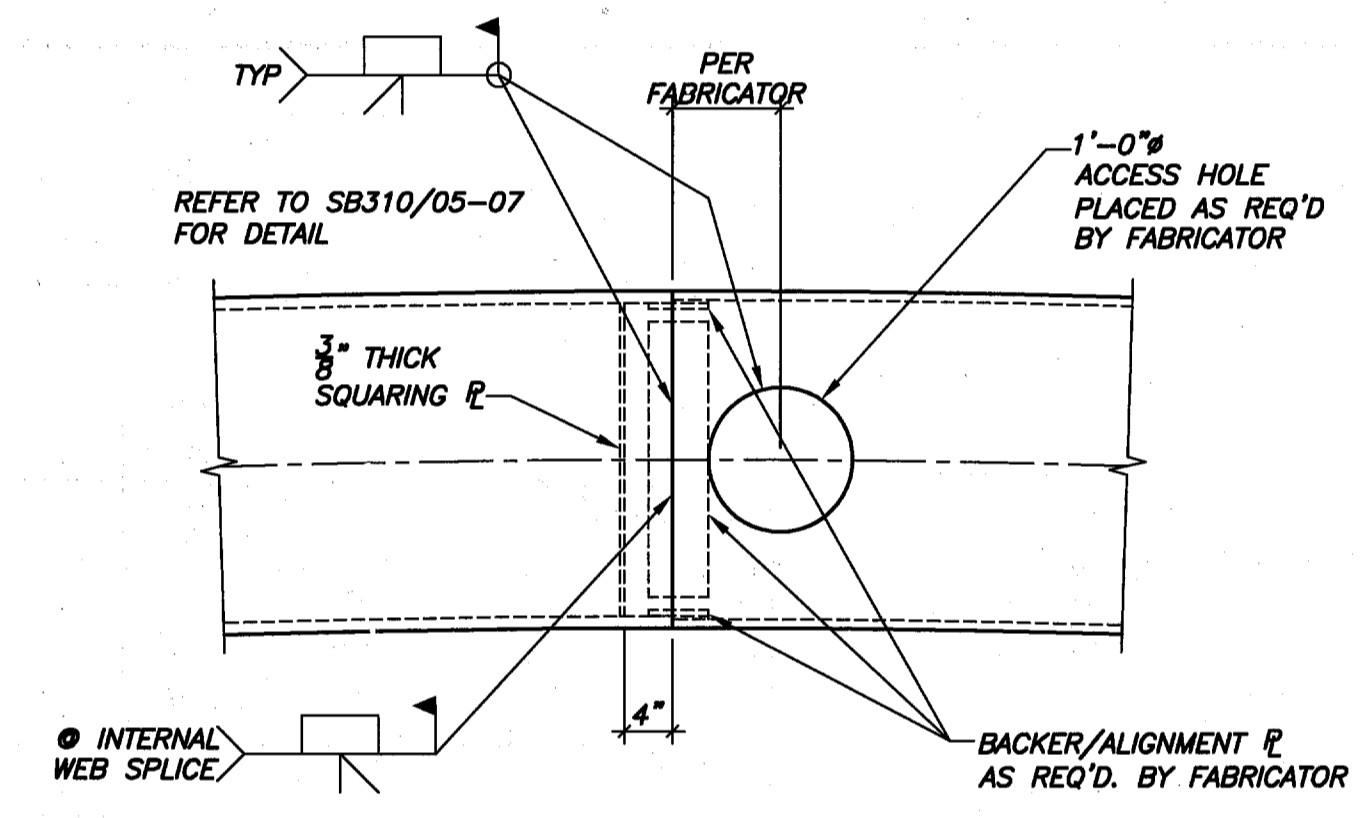
**05 SECTION**  
3/4"=1'-0"



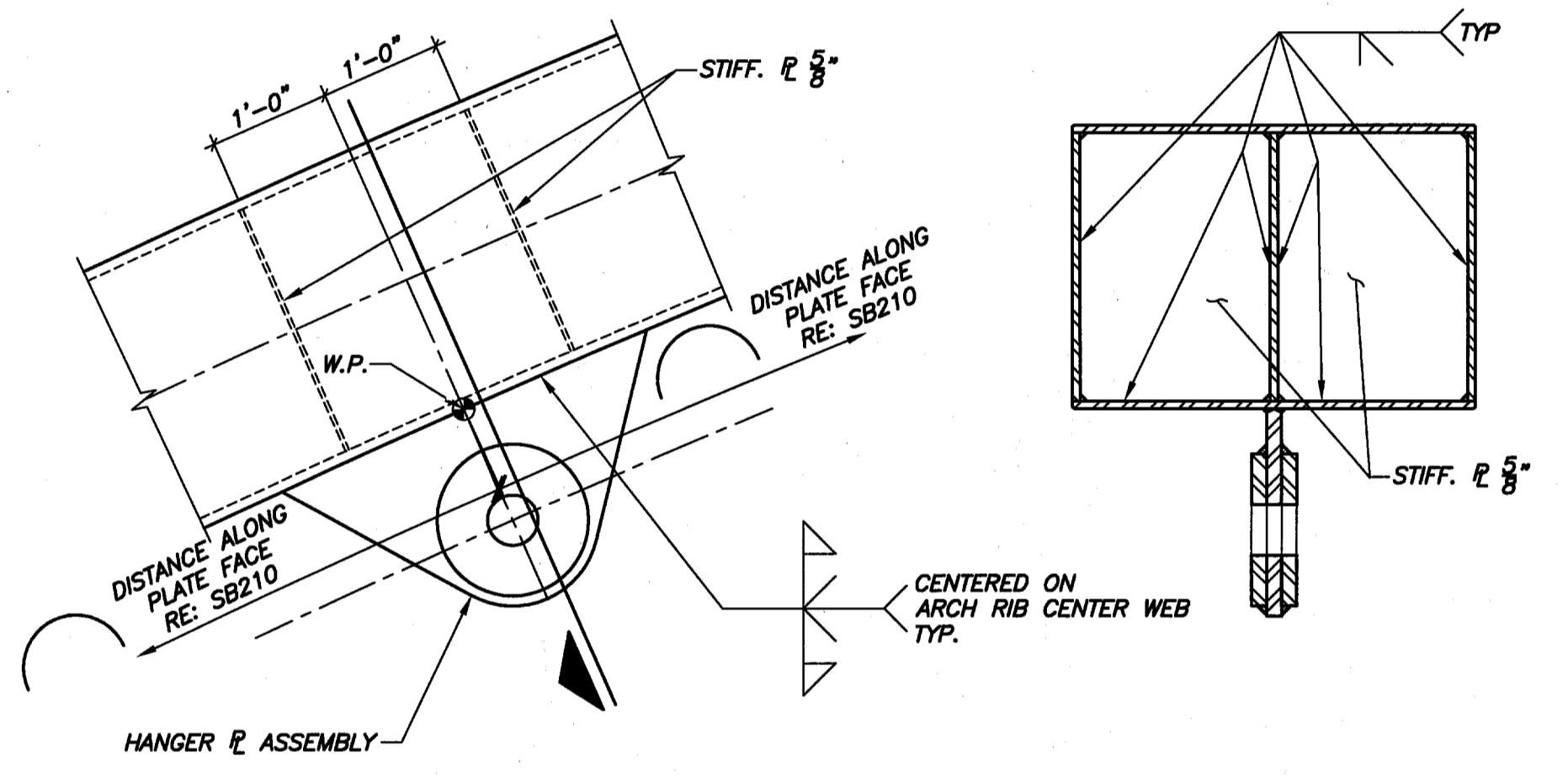
**06 SECTION**  
3/4"=1'-0"



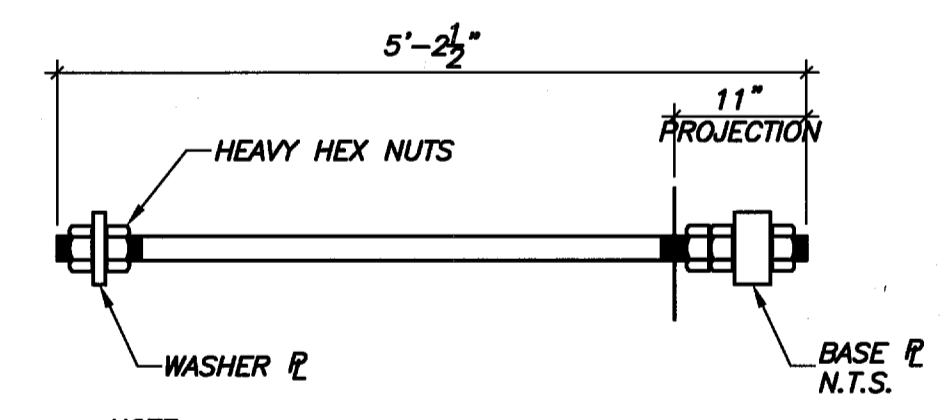
**07 SECTION**  
3/4"=1'-0"



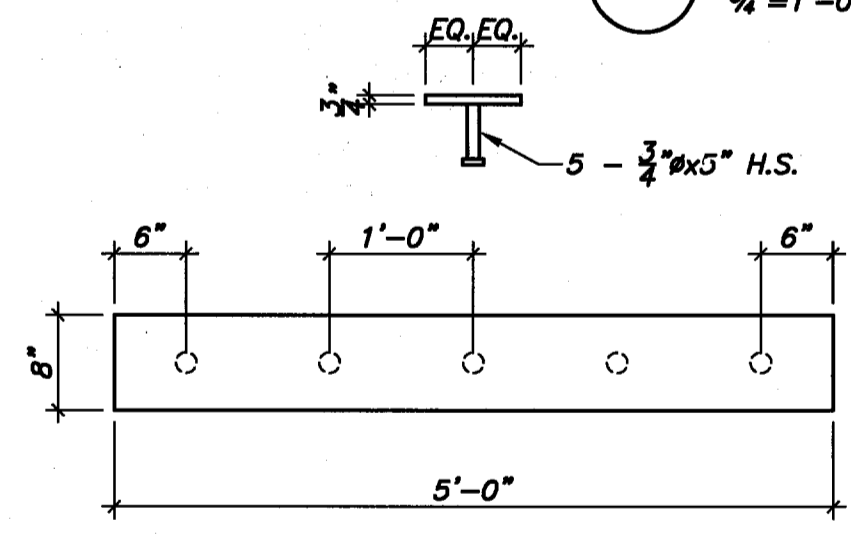
**08 TYP. SHOP SPLICE DETAIL**  
3/4"=1'-0"



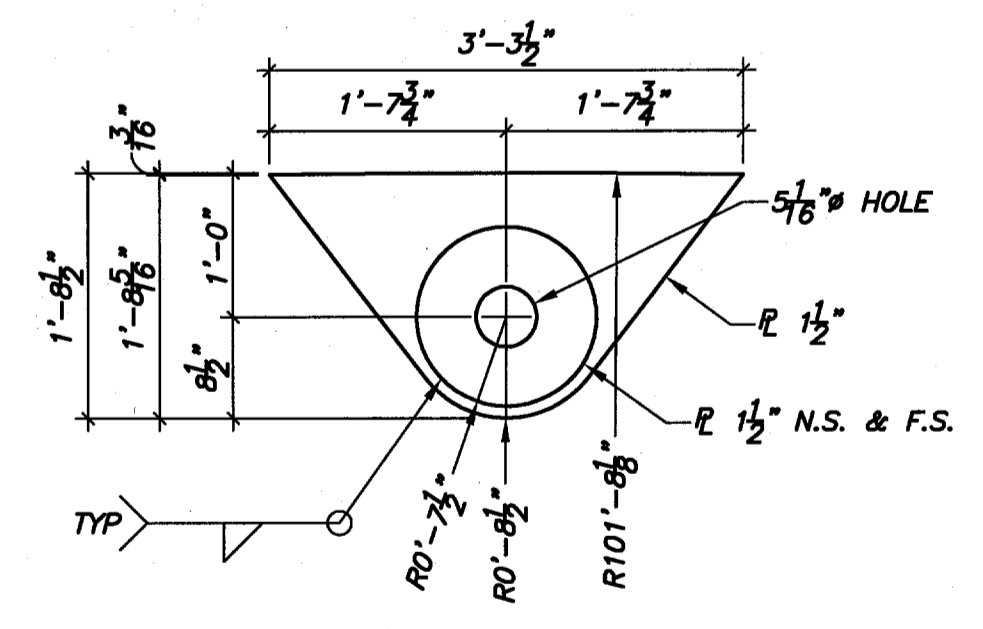
**09 TYP. CLEVIS HANGER PLATE LOCATION**  
3/4"=1'-0"



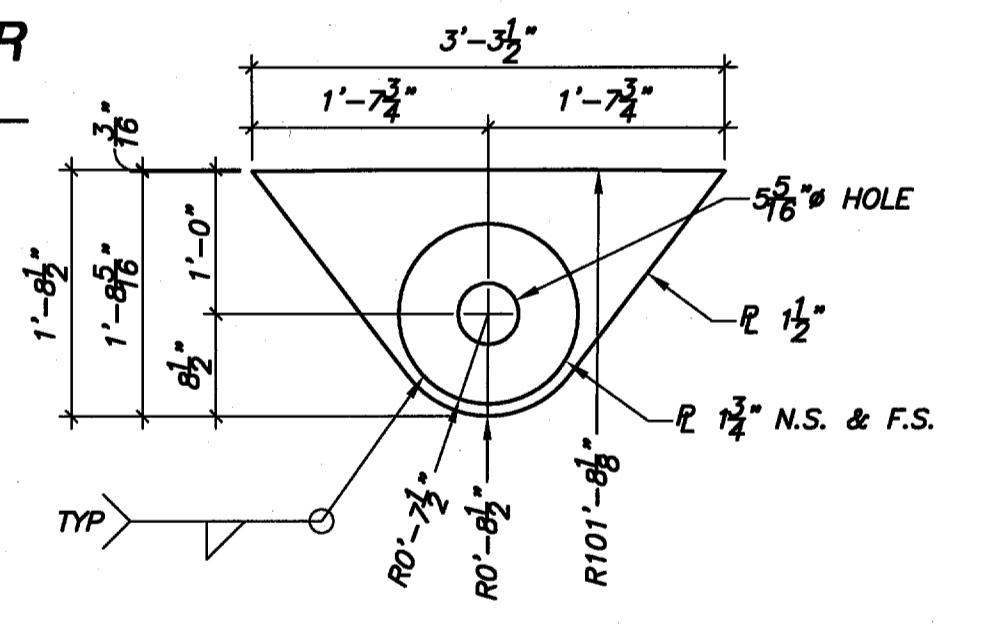
**11 ANCHOR BOLTS & NUTS**  
3/4"=1'-0"



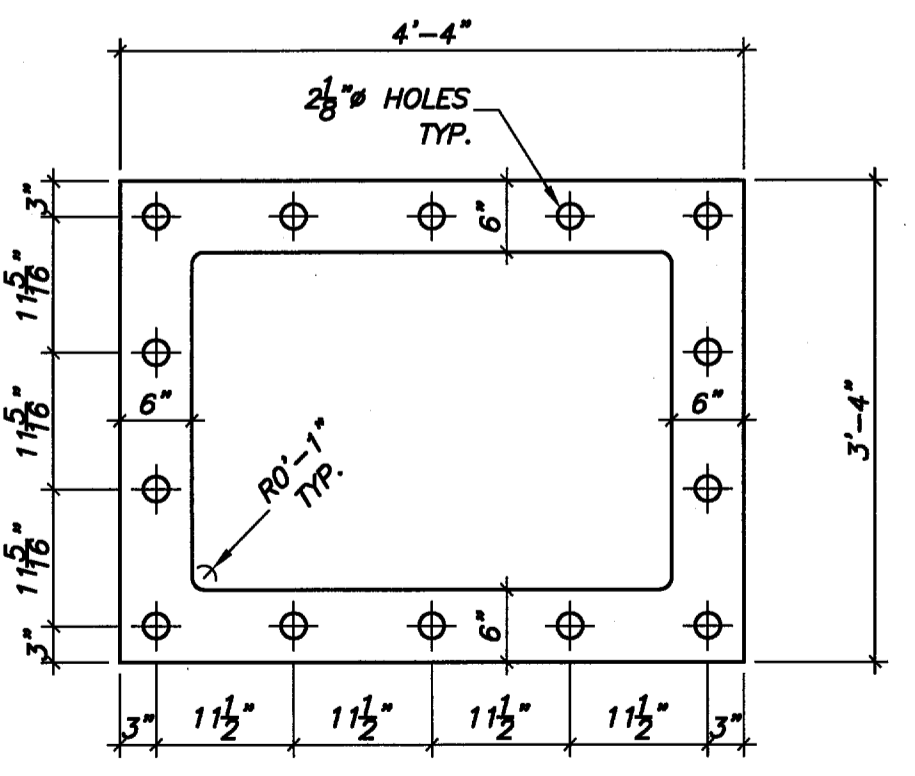
**12 EMBED DETAIL**  
3/4"=1'-0"



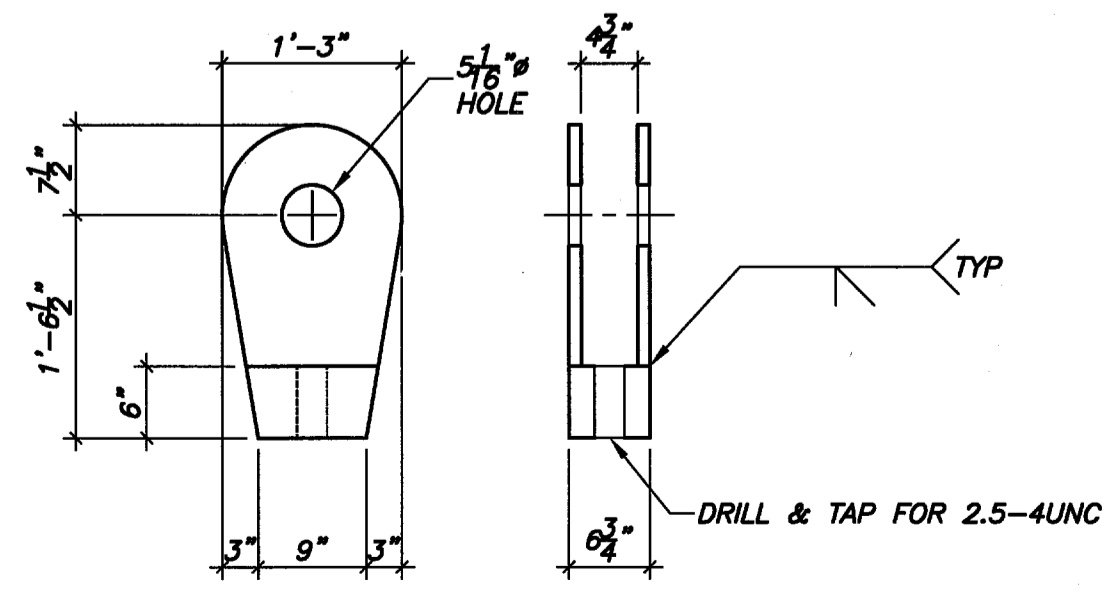
**13 HANGER PLATE ASSEMBLY FOR PT-BAR HANGER**  
3/4"=1'-0"



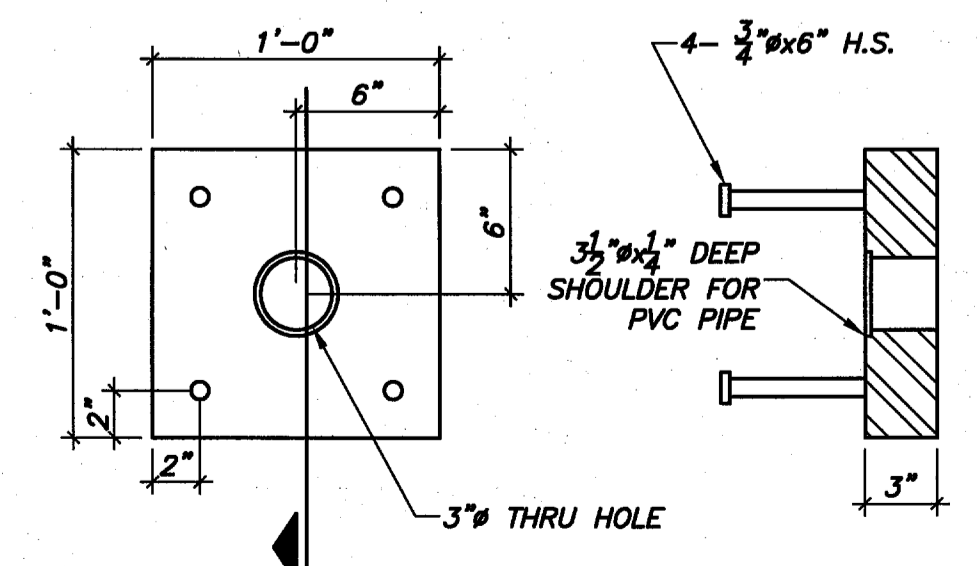
**16 ALTERNATE HANGER PLATE ASSEMBLY FOR STRAND HANGER**  
3/4"=1'-0"



**10 WASHER PLATE DETAIL**  
3/4"=1'-0"



**14 CLEVIS ASSEMBLY**  
3/4"=1'-0"



**15 HANGER BEARING PLATE DETAIL**  
3/4"=1'-0"

NOTE:  
1. MATERIAL: 3" SOKSI P  
2. BOLT HOLES SHALL BE MATCH DRILLED W/WASHER PLATE  
3. EDGES OF PLATE MAY BE SAWN OR FLAME CUT & MILL FINISHED

NOTE:  
MATERIAL: 1 1/2" SOKSI P  
TYP. U.N.O.

NOTE:  
MATERIAL: 1" SOKSI P  
TYP. U.N.O.

NOTE:  
MATERIAL: 3/4" SOKSI P  
TYP. U.N.O.

INTERNAL WEB SPLICE  
BACKER/ALIGNMENT P AS REQ'D. BY FABRICATOR

DISTANCE ALONG PLATE FACE RE: SB210  
DISTANCE ALONG ARCH RIB CENTER WEB TYP.

NOTE:  
1. MATERIAL: 2" A572 GR50  
2. THREAD ENDS OF BOLT AS REQ'D FOR ASSEMBLY SHOWN.

NOTE: ALL HOLES TO BE MADE AFTER ASSEMBLY IS COMPLETE

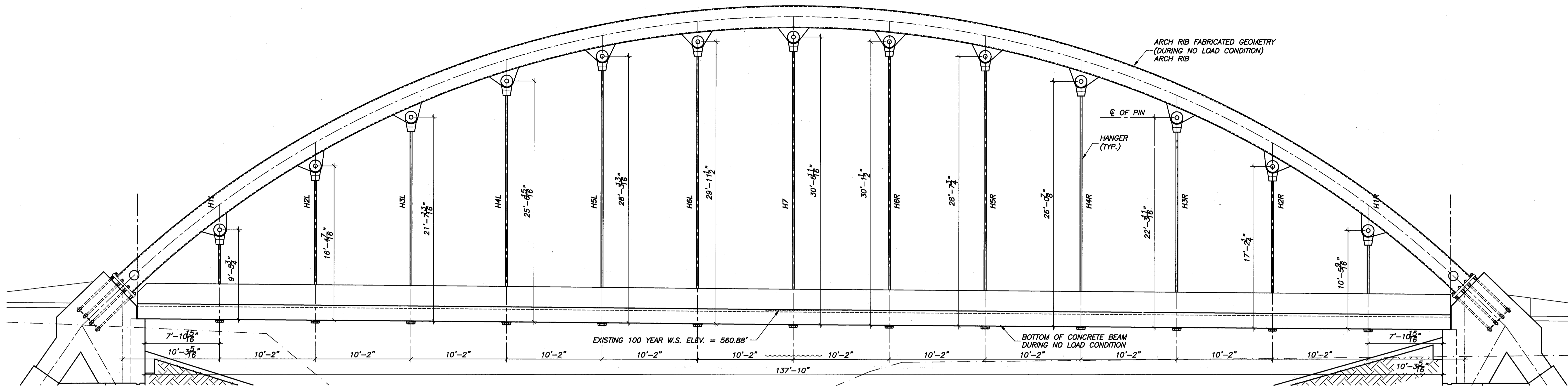
NOTE: ALL HOLES TO BE MADE AFTER ASSEMBLY IS COMPLETE

NOTE:  
1. MATERIAL IS 3/4" SOKSI P  
2. BOLT HOLES SHALL BE MATCH DRILLED W/BASE PLATE  
3. EDGES OF PLATE MAY BE SAWN OR FLAME CUT & MILL FINISHED

NOTE: ALL HOLES & THREADS TO BE MADE AFTER ASSEMBLY IS COMPLETE



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TOWN OF ADDISON DALLAS COUNTY, TEXAS			
VITRUVIAN PARK BRIDGES BELLA LANE			
<b>SECTIONS &amp; DETAILS</b>			
<b>VIEWTECH, INC.</b>		4205 Bellway Dr. - Addison, Texas 75001	
Structural Engineers		(972) 661-8187 Fax (972) 661-8172	
PROJECT	DESIGN	DRAWN	DATE
2007.144	VL	NERF	NOV. 25 2009
FILE	SHEET		
-	SB311		



	NO. OF HANGERS	TOTAL L.F. OF HANGERS
PER ARCH	13	297
PER ARCH	13	297

01 HANGER ELEVATION  
1/8" = 1'-0"

NOTE TO HANGER MANUFACTURER:

1. LENGTH OF HANGER ASSEMBLY IS THE DISTANCE FROM CENTER OF PIN TO BOTTOM OF CONCRETE BEAM.
2. HANGER ASSEMBLY LENGTH IS BASED ON NO LOAD CONDITION OF ARCH RIB AND CONCRETE BEAM.
3. HANGER MANUFACTURER SHALL DETERMINE THE ACTUAL FABRICATION LENGTH TO ACCOUNT FOR ARCH RIB DEFLECTION, CONCRETE BEAM DEFLECTION AFTER SHORING REMOVAL AND HANGER ELONGATION.
4. HANGER MANUFACTURER SHALL SUBMIT THE HANGER ASSEMBLY FABRICATION DETAIL AND LENGTH FOR APPROVAL.
5. REFER TO SB317 FOR ARCH RIB AND BRIDGE DECK DEFLECTION.

SEQUENCE NUMBER	HANGER MARK	STAGE 1	STAGE 2	FINAL FORCE
1	AR1-H1L, AR2-H1L AR1-H1R, AR2-H1R	-	40K	65K
2	AR1-H2L, AR2-H2L AR1-H2R, AR2-H2R	25K	60K	85K
3	AR1-H3L, AR2-H3L AR1-H3R, AR2-H3R	55K	70K	91K
4	AR1-H4L, AR2-H4L AR1-H4R, AR2-H4R	75K	75K	91K
5	AR1-H5L, AR2-H5L AR1-H5R, AR2-H5R	75K	70K	85K
6	AR1-H6L, AR2-H6L AR1-H6R, AR2-H6R	60K	60K	75K
7	AR1-H7, AR2-H7	45K	50K	70K

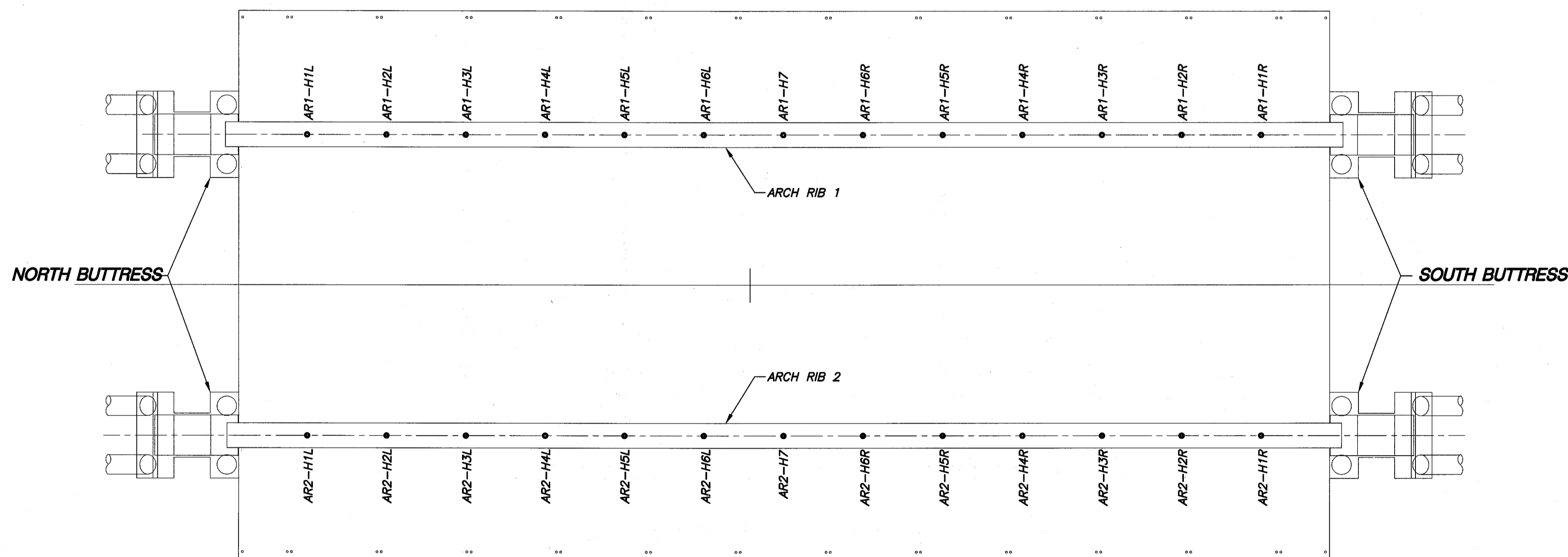
\*\* NOTE \*\*

-FORCES SHOWN IN THIS TABLE REPRESENT THE TOTAL FORCE AND ARE NOT CUMULATIVE.

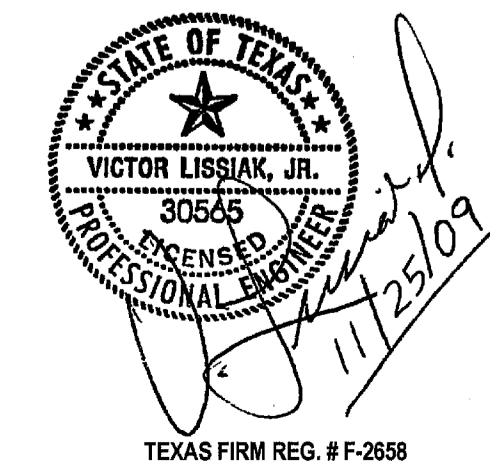
-MATCHING PANEL POINT TENSIONS OF ARCH RIB 1 AND ARCH RIB 2 SHALL BE A MAXIMUM OF ± 10%

STRESSING PROCEDURE:

1. BRIDGE DECK SHORING MUST REMAIN IN PLACE DURING STRESSING STAGES 1 & 2.
2. HANGERS MUST BE STRESSED SIMULTANEOUSLY AS SHOWN IN THE HANGER STRESSING SEQUENCE TABLE i.e., HANGERS MARKED AR1-H1L, AR2-H1L, AR1-H1R, AND AR2-H1R SHALL ALL FOUR BE STRESSED AT THE SAME TIME.
3. THE E.O.R. MUST BE NOTIFIED OF THE ACTUAL HANGER FORCE IN EACH HANGER AFTER COMPLETION OF STAGE 1 STRESSING BEFORE COMMENCING STAGE 2 STRESSING.
4. THE E.O.R. MUST BE NOTIFIED OF THE ACTUAL HANGER FORCE IN EACH HANGER AFTER COMPLETION OF STAGE 2 STRESSING BEFORE REMOVING SHORES.
5. AFTER E.O.R. GRANTS PERMISSION TO REMOVE SHORES, HANGERS MUST BE ADJUSTED TO ACHIEVE FINAL FORCES TABULATED ON SB212. FINAL FORCES IN EACH HANGER SHALL BE REPORTED TO E.O.R. FOR FINAL APPROVAL.
6. HANGER MANUFACTURER SHALL SUBMIT HANGER STRESSING EQUIPMENT FOR REVIEW AND APPROVAL.

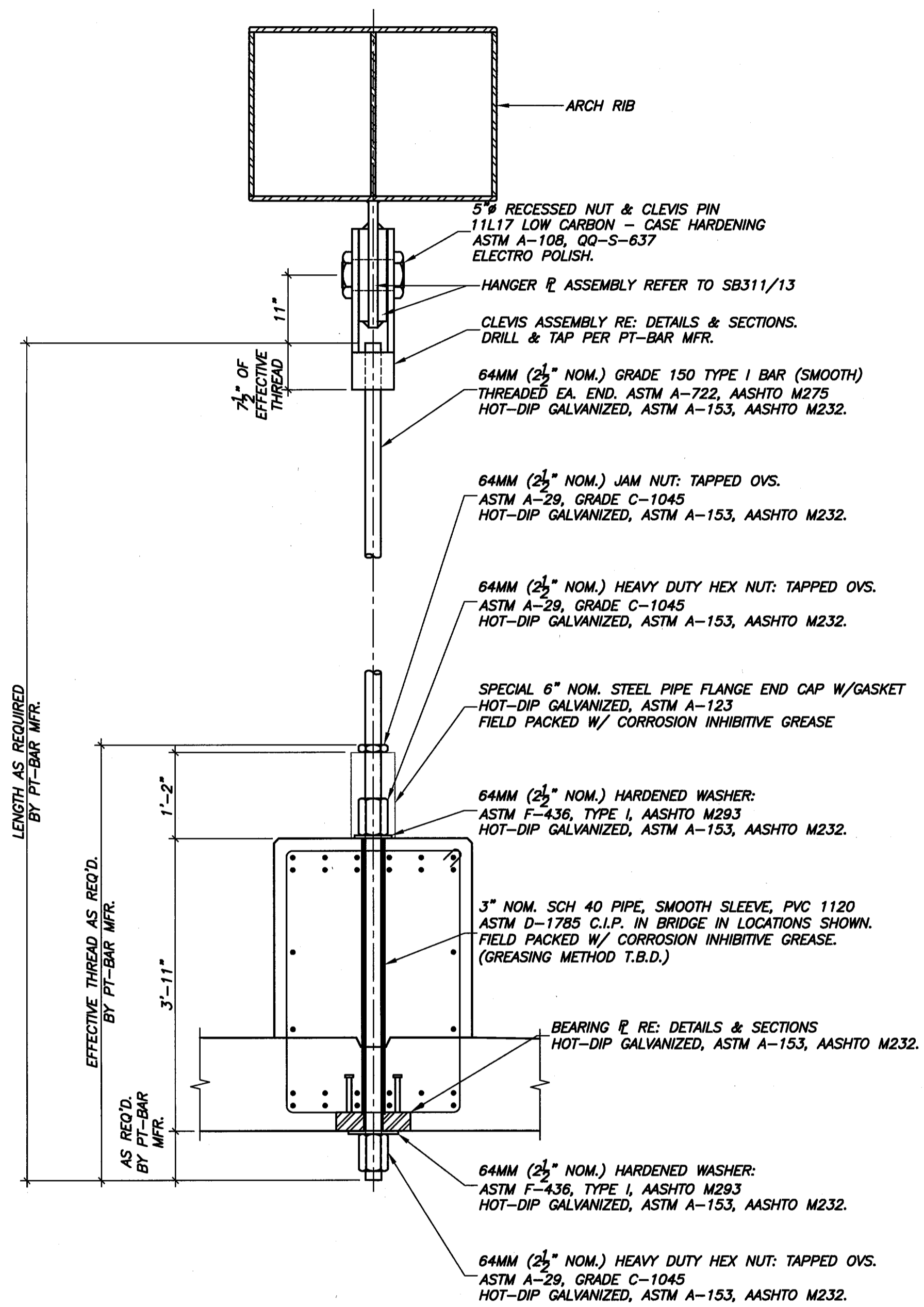


02 HANGER PLAN  
N.T.S.



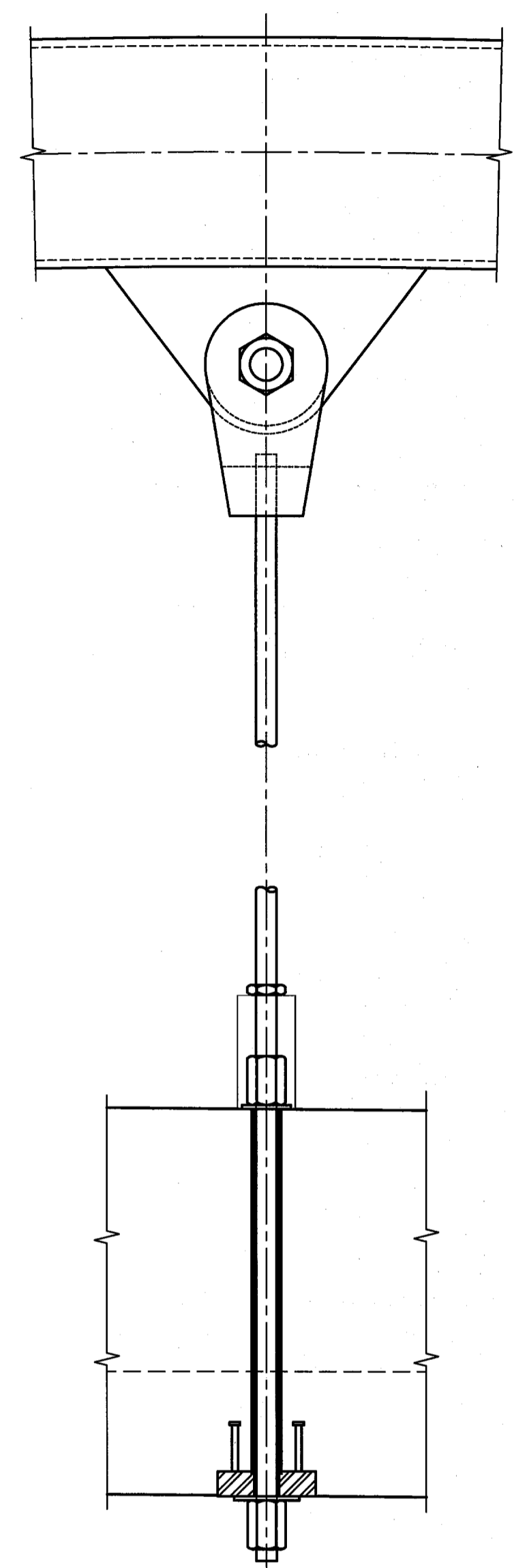
TEXAS FIRM REG. # F-2658

PRELIMINARY-FOR REVIEW ONLY					01/25/09
NO.	REVISION			BY	DATE
TOWN OF ADDISON DALLAS COUNTY, TEXAS					
VITRUVIAN PARK BRIDGES BELLA LANE					
<b>ARCH RIB HANGER STRESSING PLAN</b>					
VIEWTECH, INC.			4205 Beltway Dr. - Addison, Texas 75001 (972) 661-8187 Fax (972) 661-8172		
PROJECT	DESIGN	DRAWN	DATE	FILE	SHEET
2007.144	VL	NERF	NOV. 25 2009	-	SB312

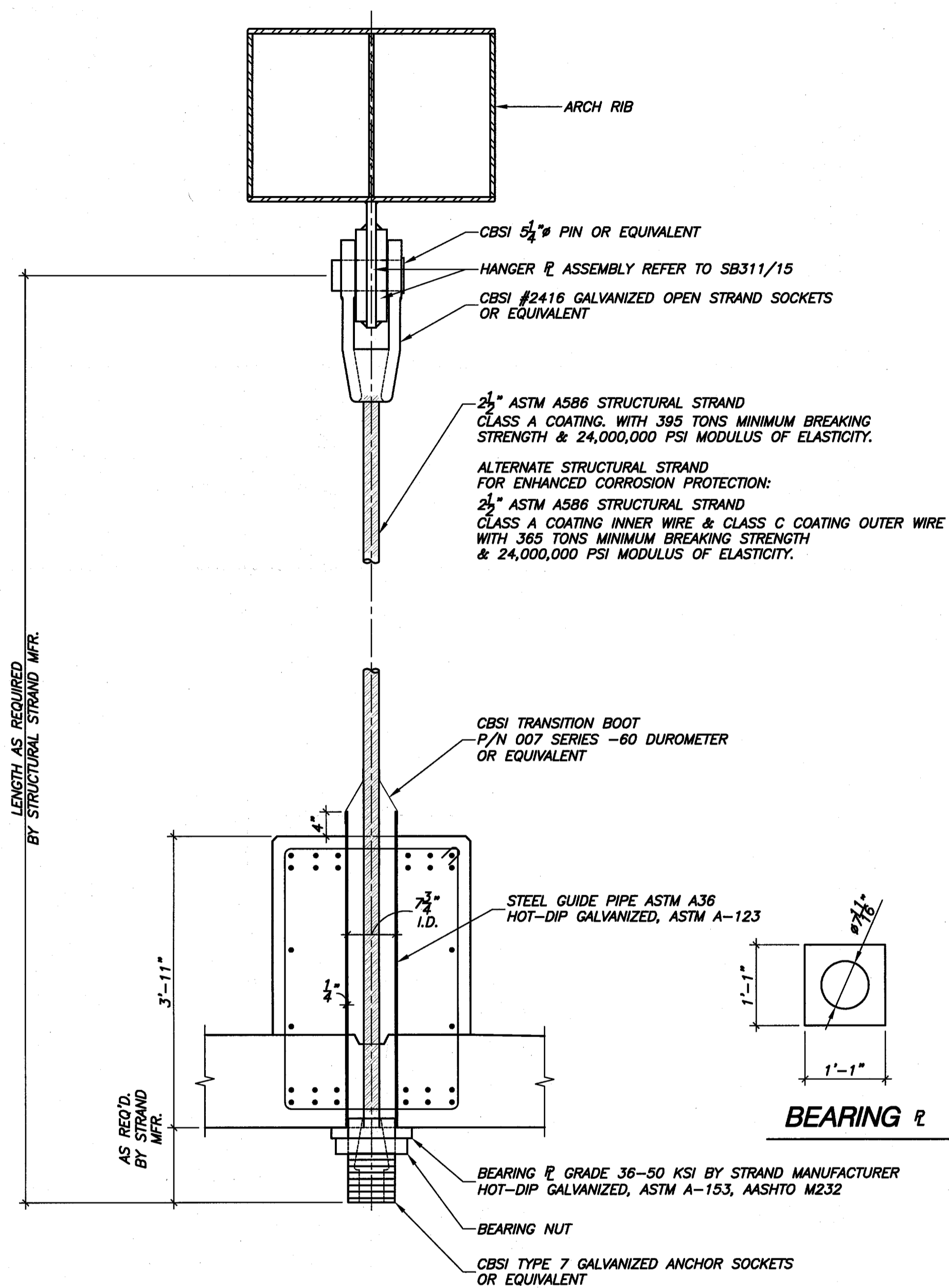


NOTE:  
REFER TO SB312 FOR HANGER ASSEMBLY LENGTH

**01** PT-BAR HANGER ASSEMBLY  
3/4"=1'-0"

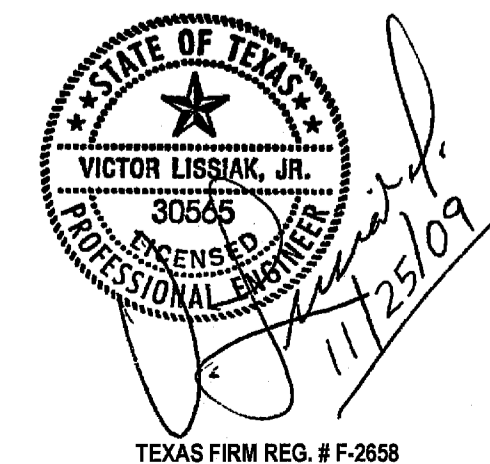


**02** PT-BAR HANGER SPLICE DETAIL  
FOR FUTURE HANGER REPLACEMENT  
3/4"=1'-0"



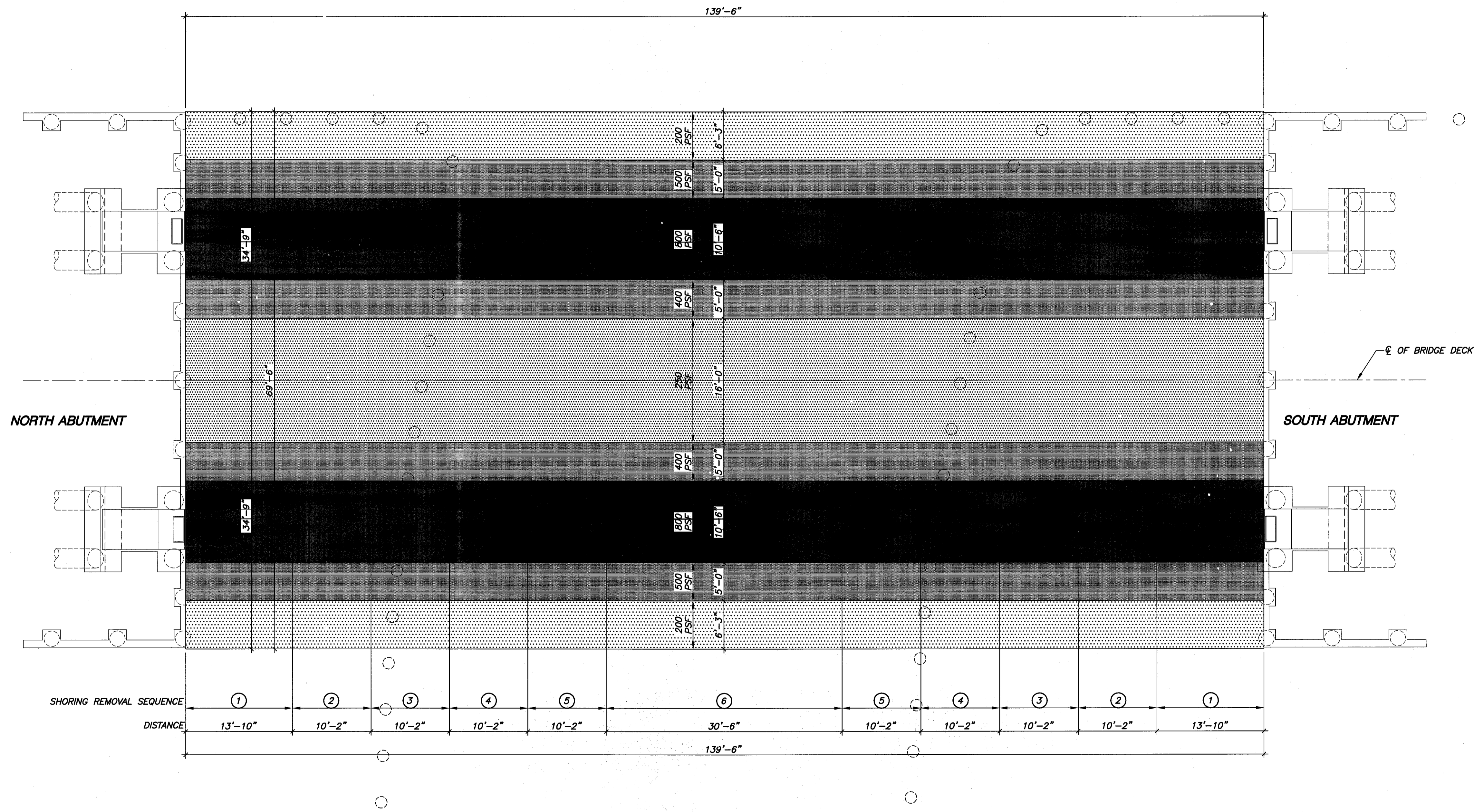
**03** ALTERNATE STRUCTURAL STRAND  
HANGER ASSEMBLY  
3/4"=1'-0"

NOTE:  
REFER TO SB312 FOR HANGER ASSEMBLY LENGTH



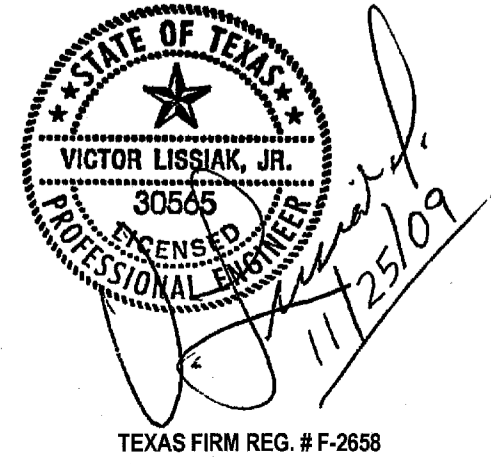
PRELIMINARY-FOR REVIEW ONLY		01/25/09	
NO.	REVISION	BY	DATE
TOWN OF ADDISON DALLAS COUNTY, TEXAS			
VITRUVIAN PARK BRIDGES BELLA LANE			
<b>HANGER ASSEMBLY</b>			
<b>VIEWTECH, INC.</b> Structural Engineers		4205 Beltway Dr. - Addison, Texas 75001 (972) 661-8187 Fax (972) 661-8172	
PROJECT	DESIGN	DRAWN	DATE
2007.144	VL	NERF	NOV. 25 2009
FILE			SHEET
-			<b>SB313</b>

TEXAS FIRM REG. # F-2658



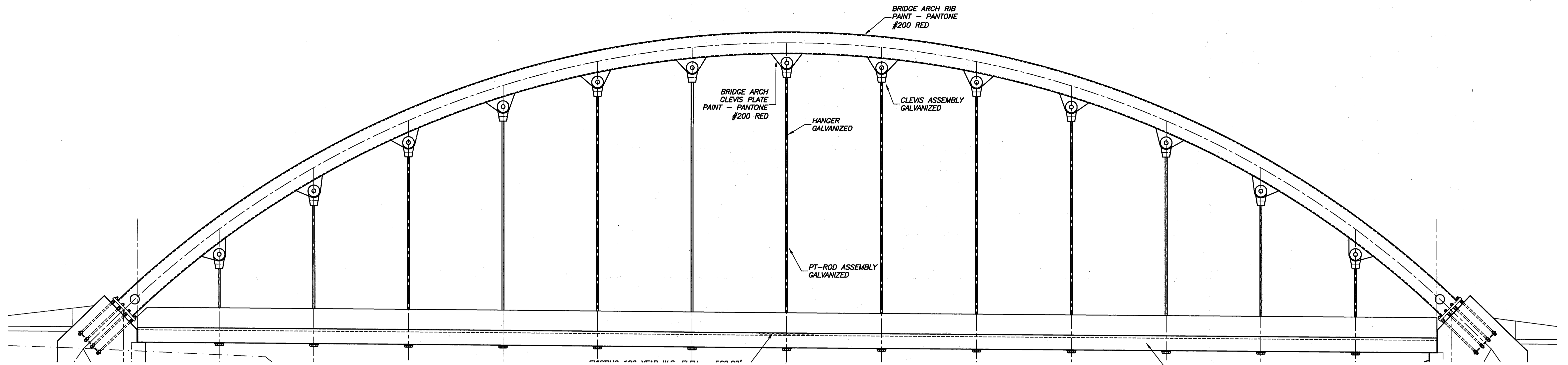
**01** TRAFFIC BRIDGE DECK  
LOADING PLAN FOR SHORING  
1/8" = 1'-0"  
NORTH

- PLAN NOTES :
1. CONTRACTOR MUST USE THE LOADING AS SHOWN FOR FORM WORK DESIGN.
  2. DO NOT REMOVE SHORES UNTIL STAGE 2 OF HANGER STRESSING IS COMPLETE. DO NOT ABRUPTLY REMOVE SHORING.
  3. AVOID IMPACT LOADING TO HANGER.
  4. LOAD SHOWN ARE WET WEIGHT OF CONCRETE AND REINFORCING STEEL.

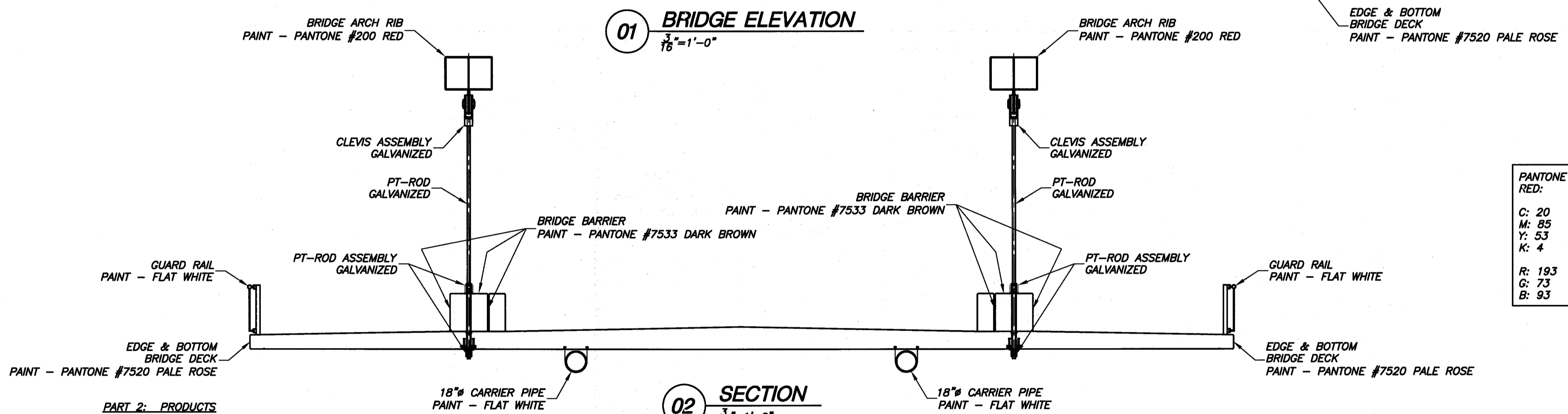


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TOWN OF ADDISON DALLAS COUNTY, TEXAS		
VITRUVIAN PARK BRIDGES BELLA LANE		
<b>TRAFFIC BRIDGE DECK LOADING PLAN FOR SHORING</b>		
VIEWTECH, INC. Structural Engineers		4205 Beltway Dr. - Addison, Texas 75001 (972) 661-8187 Fax (972) 661-8172
PROJECT	DESIGN	DATE
2007.144	VL	NOV. 25 2009
DRAWN	FILE	SHEET
NERF	-	SB314

TEXAS FIRM REG. # F-2688



01 BRIDGE ELEVATION  
1/8" = 1'-0"



02 SECTION  
1/8" = 1'-0"

<b>PANTONE #200 RED:</b> C: 20 M: 85 Y: 53 K: 4 R: 193 G: 73 B: 93	<b>PANTONE #7520 PALE ROSE:</b> C: 7 M: 25 Y: 22 K: 0 R: 234 G: 195 B: 184	<b>PANTONE #7533 DARK BROWN:</b> C: 54 M: 63 Y: 75 K: 56 R: 74 G: 60 B: 49
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**PAINTING FOR STEEL & CONCRETE**

**PART 1: GENERAL**

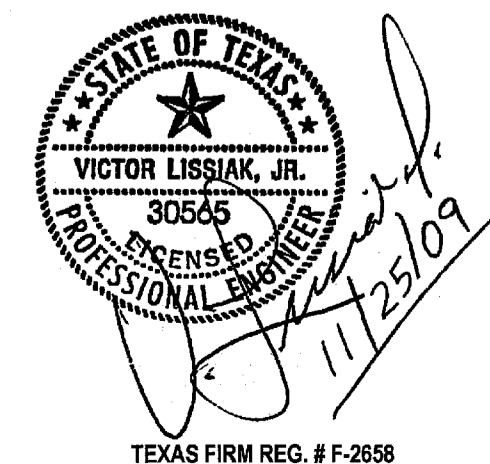
- 1.1 SUMMARY  
A. THIS SPECIFICATION IS INTENDED FOR PAINTING STEEL AND CONCRETE SURFACES AS INDICATED ON THE PAINT DRAWINGS.
- 1.2 REFERENCES  
A. STEEL STRUCTURES PAINTING COUNCIL, NATIONAL ASSOCIATION OF CORROSION ENGINEERS (SSPC): STEEL STRUCTURES PAINTING MANUAL, VOLUME 2, SYSTEMS AND SPECIFICATIONS.
- 1.3 ACCEPTABLE MANUFACTURERS  
MATERIALS MANUFACTURED BY THE FOLLOWING MANUFACTURERS LISTED BELOW ARE ACCEPTABLE:  
CARBOLINE  
CORONADO  
PORTER  
SHERWIN-WILLIAMS  
TNEMEC
- 1.4 SUBMITTALS  
A. PRODUCT DATA: SUBMIT MANUFACTURER'S SPECIFICATIONS TO EVIDENCE COMPLIANCE WITH THESE SPECIFICATIONS. INCLUDE LABEL ANALYSIS OF FINISH COATING.  
B. SAMPLES: FERROUS METAL: PROVIDE TWO 8" SQUARE SAMPLES OF SOLID METAL FOR EACH COLOR SELECTED. DEFINE PRIME AND FINISH COATS.  
C. SUBMIT MANUFACTURER'S INSTALLATION INSTRUCTIONS.
- 1.5 QUALITY ASSURANCE  
A. SINGLE SOURCE RESPONSIBILITY: PROVIDE PRIMER MATERIAL PRODUCED BY THE SAME MANUFACTURER AS THE FINISH COATS. USE ONLY THINNERS RECOMMENDED BY THE MANUFACTURER, AND ONLY WITHIN RECOMMENDED LIMITS.
- 1.6 JOB CONDITIONS  
A. APPLY COATING ONLY WHEN THE TEMPERATURE OF SURFACES TO BE COATED AND SURROUNDING AIR TEMPERATURES ARE ABOVE 45 DEG. F (7 DEG. C), UNLESS OTHERWISE PERMITTED BY MANUFACTURER'S PRINTED INSTRUCTIONS.  
B. DO NOT APPLY COATING IN SNOW, RAIN, FOG OR MIST, OR WHEN THE RELATIVE HUMIDITY EXCEEDS 85 PERCENT, OR AT TEMPERATURES LESS THAN 5 DEG. F (3 DEG. C) ABOVE THE DEW POINT, OR TO DAMP OR WET SURFACES UNLESS OTHERWISE PERMITTED BY MANUFACTURER'S PRINTED INSTRUCTION. ALLOW WET SURFACES TO DRY THOROUGHLY AND ATTAIN THE TEMPERATURE AND CONDITIONS SPECIFIED BEFORE PROCEEDING WITH OR CONTINUING THE COATING OPERATION.

**PART 2: PRODUCTS**

- 2.1 MATERIALS  
A. 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  
B. 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: "RECOATABLE EPOXY PRIMER", B67 SERIES  
TNEMEC: SERIES 66 "HI-BUILD EPOXOLINE"  
C. TOPCOAT: POLYURETHANE. PROVIDE FACTORY-FORMULATED POLYURETHANE. MATERIAL SHALL BE COMPATIBLE WITH THE INTERMEDIATE COAT INDICATED. SHEEN SHALL BE GLOSS.  
CARBOLINE: 134 HVS  
CORONADO: SUPERTHANE, 827 SERIES  
PORTER: "HYTHANE SUPER" NO. 8600  
SHERWIN-WILLIAMS: "HIGH SOLIDS POLYURETHANE", B65 SERIES  
TNEMEC: SERIES 75, "ENDURA-SHIELD" HIGH BUILD POLYURETHANE  
D. COLOR OF TOPCOAT: AS SPECIFIED ON DRAWINGS.

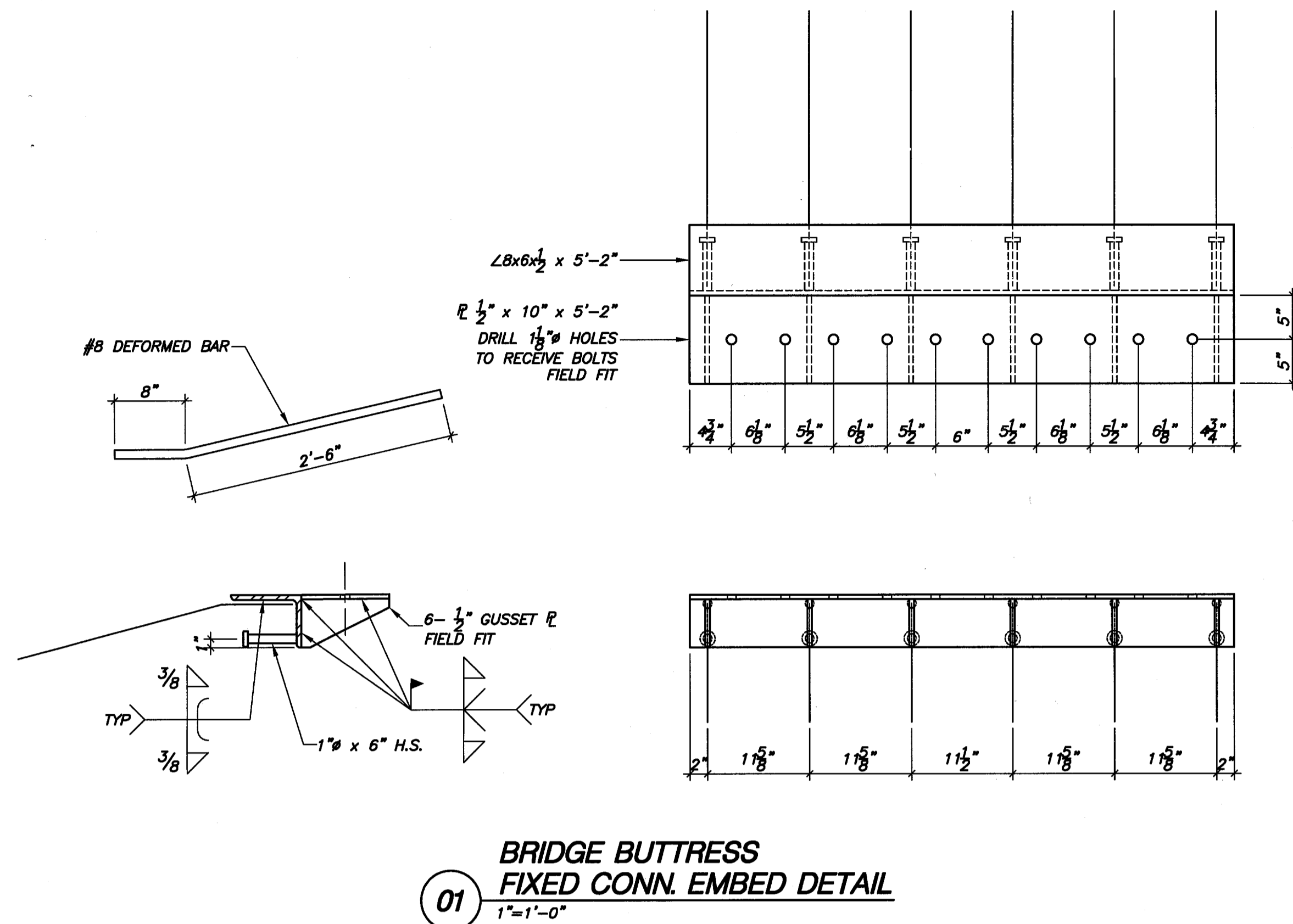
**PART 3: EXECUTION**

- 3.1 EXAMINATION  
A. EXAMINE SUBSTRATE SURFACES TO RECEIVE SPECIAL COATINGS SYSTEM. STARTING WORK WITHIN A PARTICULAR AREA WILL BE CONSTRUED AS APPLICATOR'S ACCEPTANCE OF SURFACE CONDITIONS.
- 3.2 PREPARATION  
A. REMOVE GREASE AND OIL BY SOLVENT CLEANING AS RECOMMENDED BY THE COATING MANUFACTURER AND IN ACCORDANCE WITH THE SSPC SP1.  
B. SURFACES SHALL RECEIVE A COMMERCIAL BLAST CLEANING AS RECOMMENDED BY THE COATING SYSTEM MANUFACTURER AND IN ACCORDANCE WITH THE REQUIREMENTS OF SSPC SPECIFICATION SSPC SP6 AND SSPC -SP-COM.
- 3.3 PROTECTION  
A. PROTECT WORK OF OTHER TRADES, WHETHER TO BE COATED OR NOT, AGAINST DAMAGE FROM COATING. CORRECT DAMAGE BY CLEANING, REPAIRING, REPLACING AND RE-COATING.

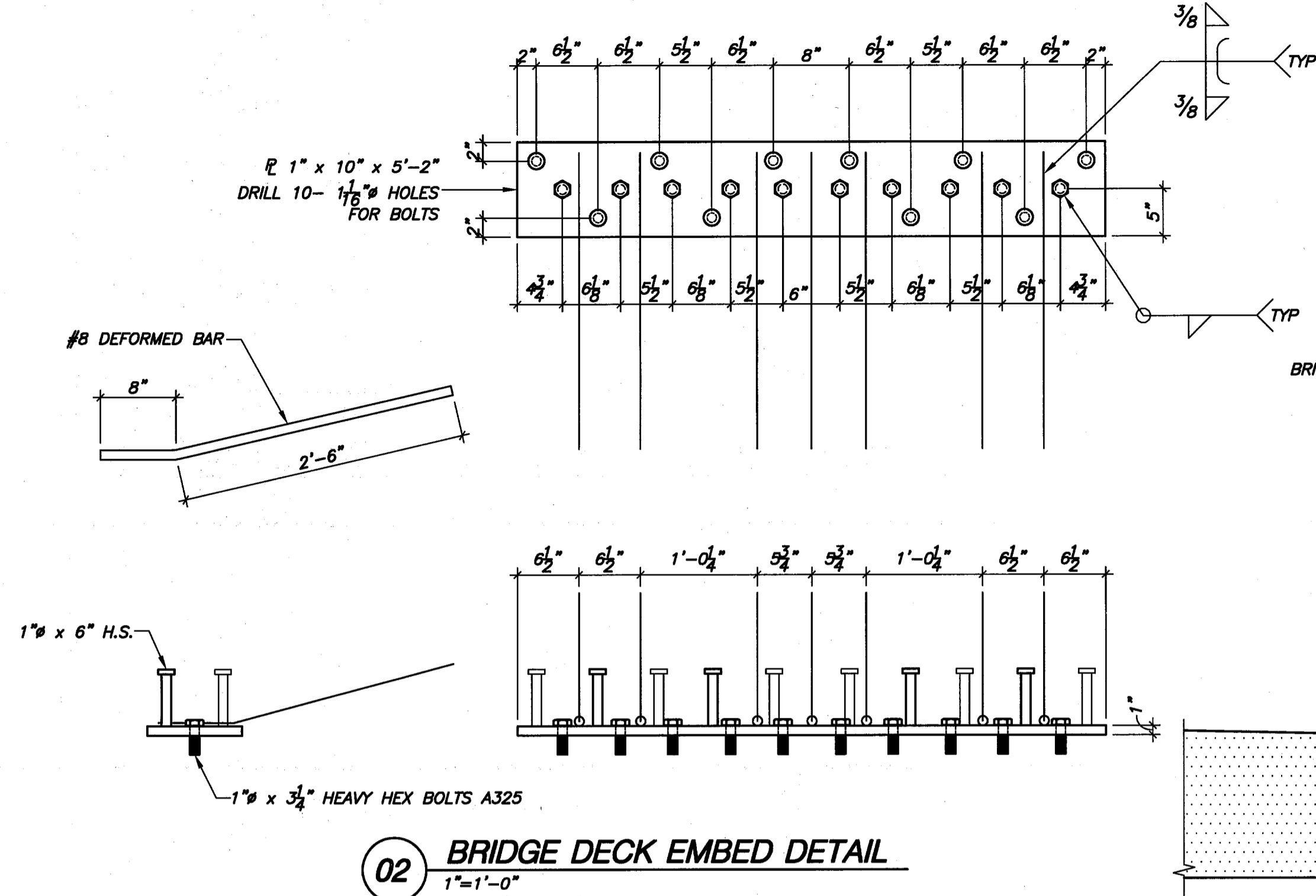


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TOWN OF ADDISON DALLAS COUNTY, TEXAS  VITRUVIAN PARK BRIDGES BELLA LANE  <b>BRIDGE ELEVATION PAINTING SCHEME</b>					
<b>VIEWTECH, INC.</b> Structural Engineers		4205 Beltway Dr. - Addison, Texas 75001 (972) 661-8187 Fax (972) 661-8172			
PROJECT	DESIGN	DRAWN	DATE	FILE	SHEET
2007.144	VL	NERF	NOV. 25 2009	-	SB315

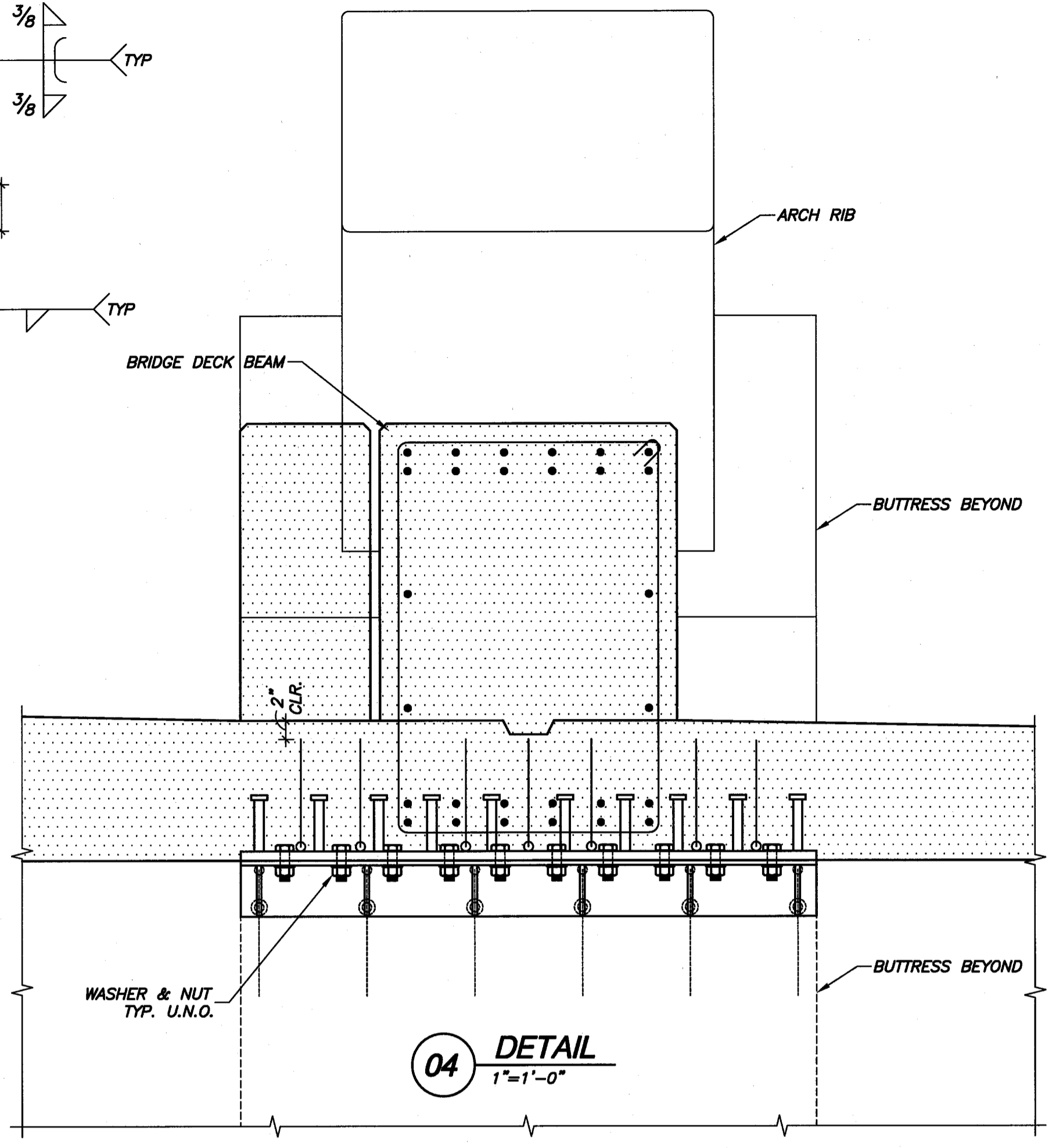




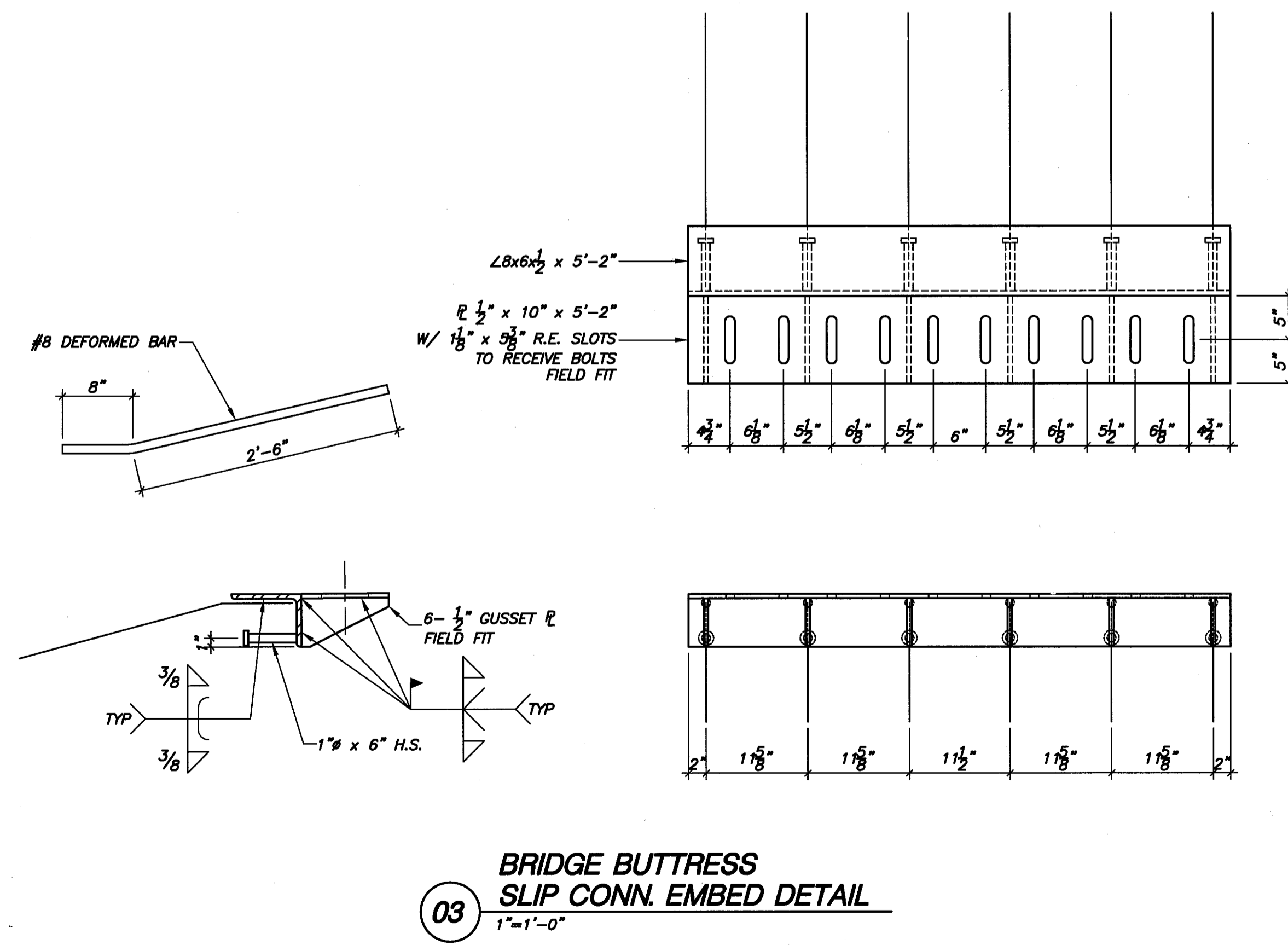
**01** BRIDGE BUTRESS  
FIXED CONN. EMBED DETAIL  
1"=1'-0"



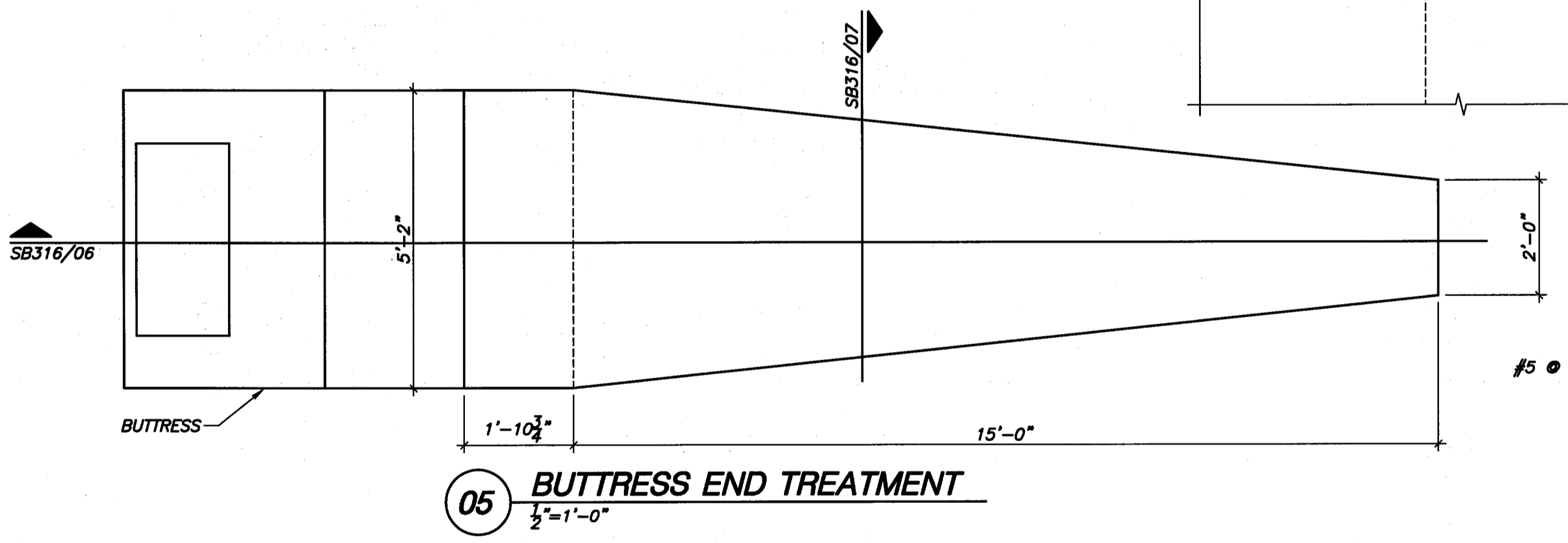
**02** BRIDGE DECK EMBED DETAIL  
1"=1'-0"



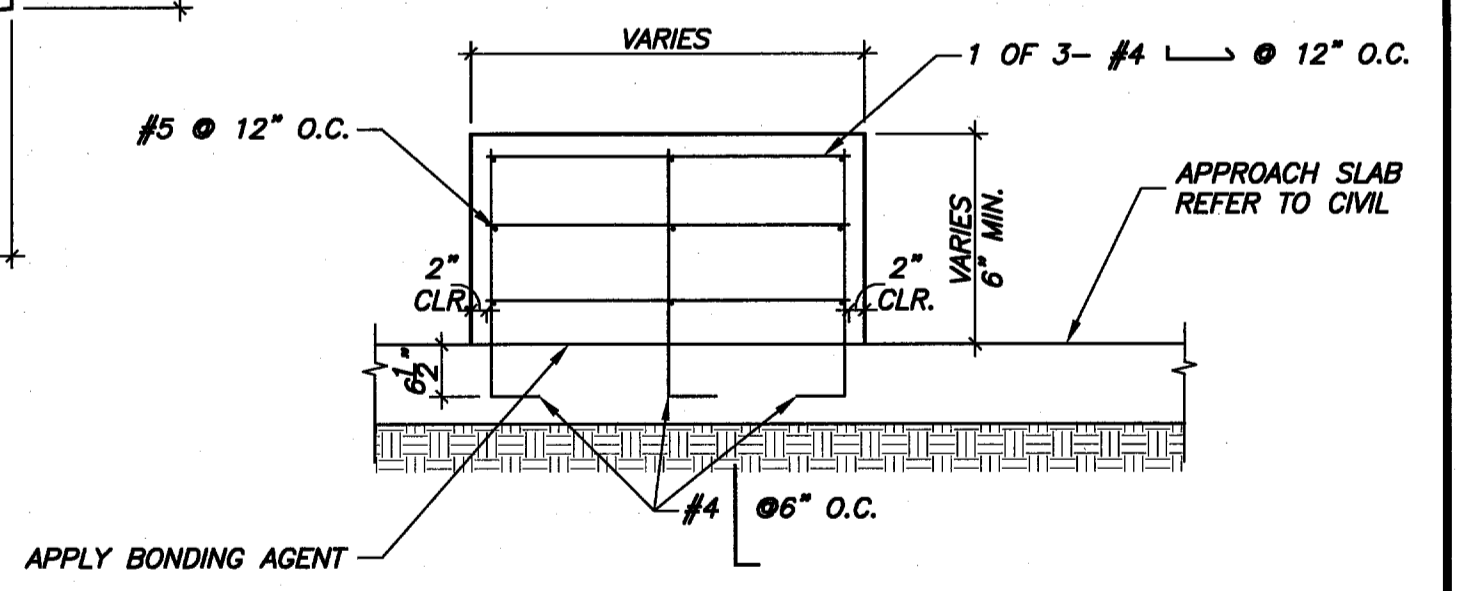
**04** DETAIL  
1"=1'-0"



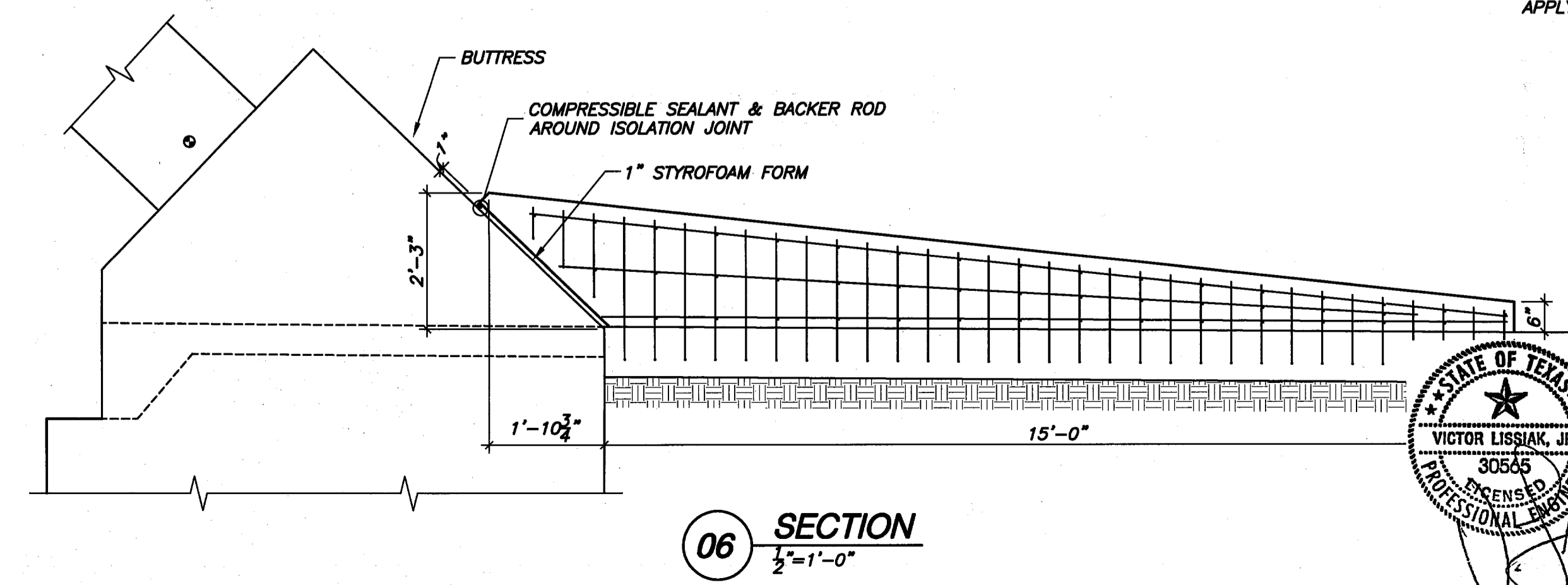
**03** BRIDGE BUTRESS  
SLIP CONN. EMBED DETAIL  
1"=1'-0"



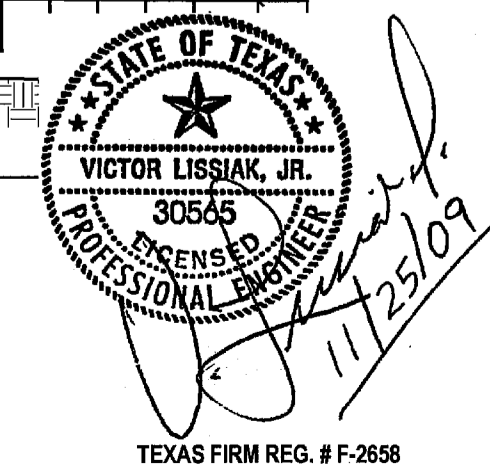
**05** BUTRESS END TREATMENT  
1/2"=1'-0"



**07** SECTION  
1/2"=1'-0"

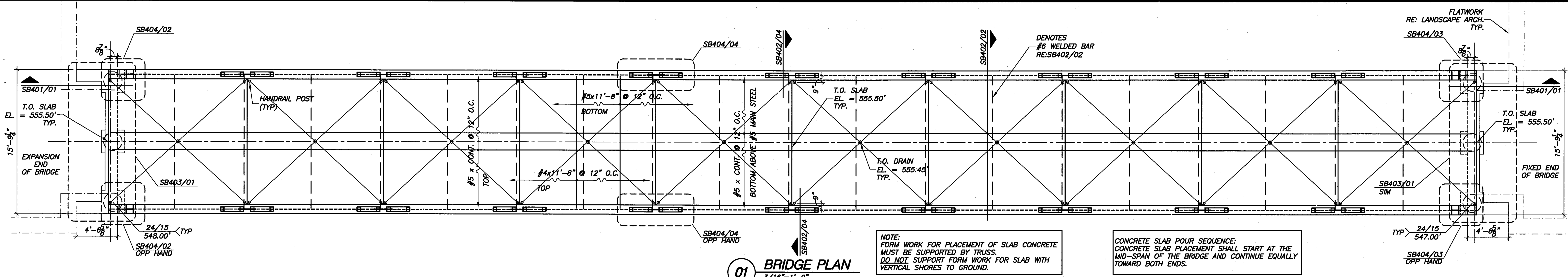


**06** SECTION  
1/2"=1'-0"

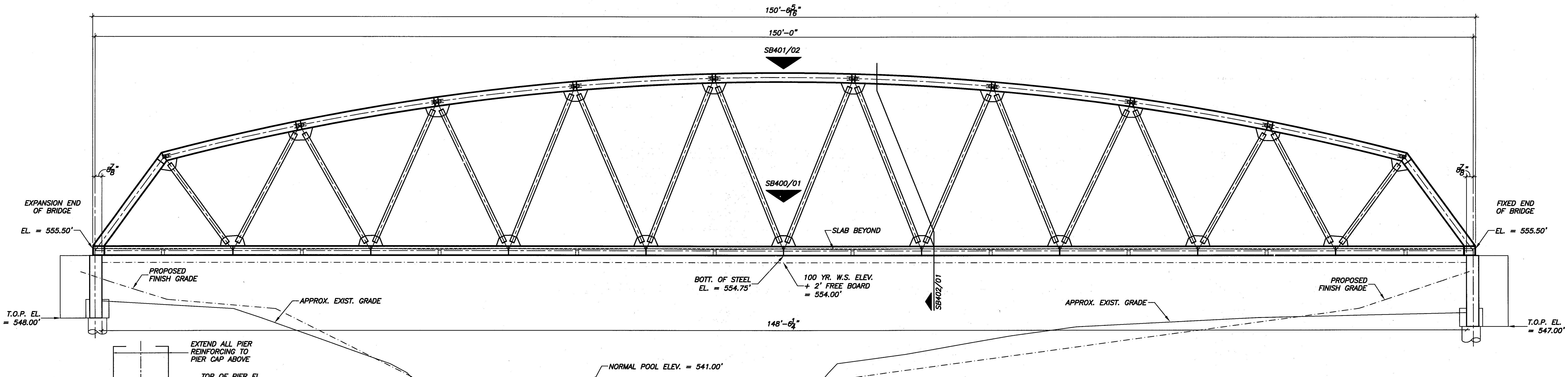


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TOWN OF ADDISON DALLAS COUNTY, TEXAS				
VITRUVIAN PARK BRIDGES BELLA LANE				
<b>SECTIONS &amp; DETAILS</b>				
VIEWTECH, INC. Structural Engineers		4205 Beltway Dr. - Addison, Texas 75001 (972) 661-8187 Fax (972) 661-8172		
PROJECT	DESIGN	DRAWN	FILE	SHEET
2007.144	VL	NERF	NOV. 25 2009	SB316



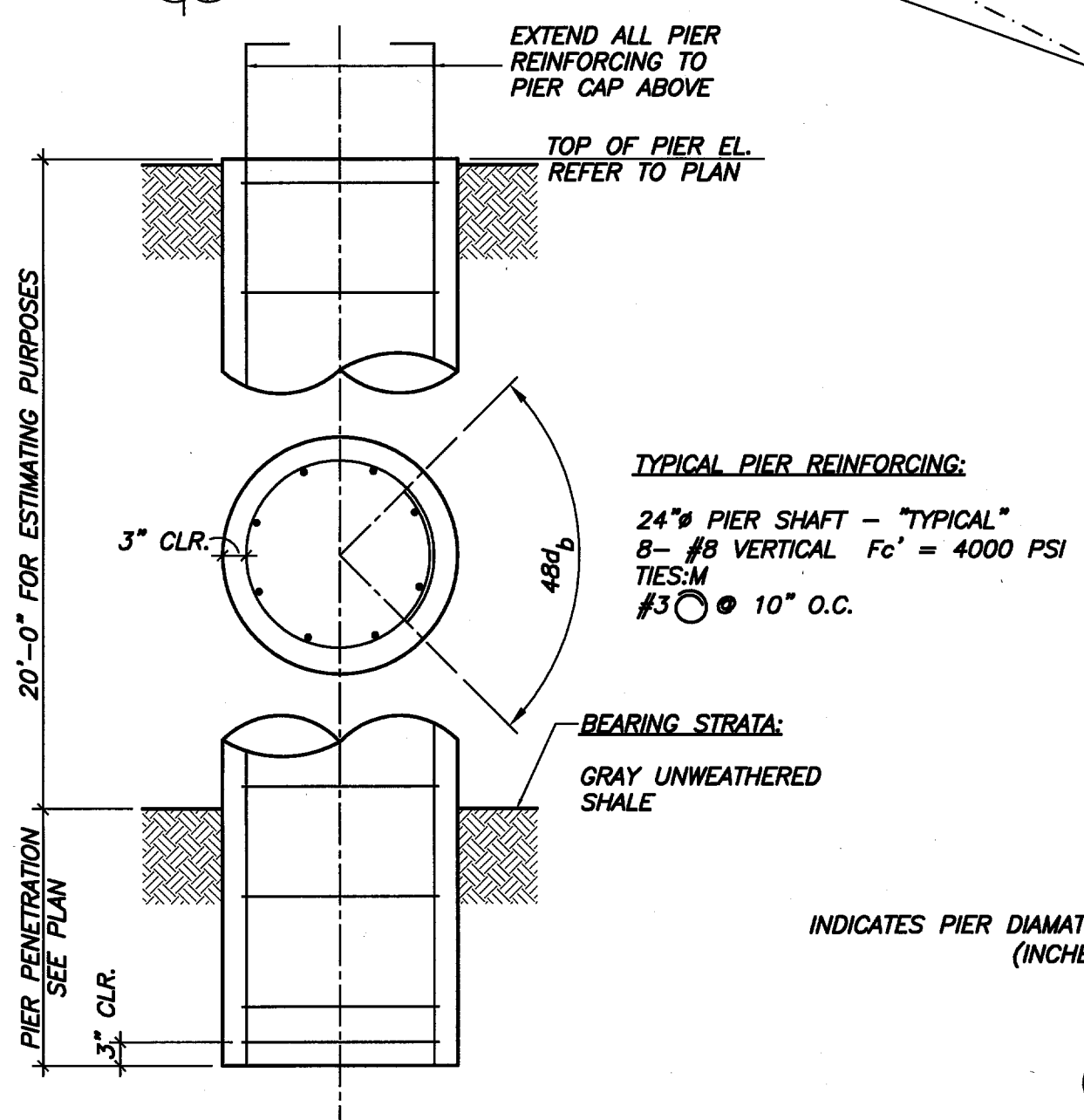


**01 BRIDGE PLAN**  
3/16"=1'-0"

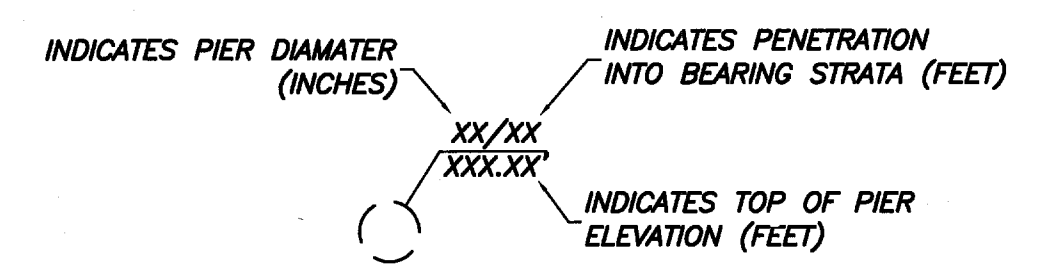


**02 BRIDGE ELEVATION**  
3/16"=1'-0"

TABLE OF ESTIMATED QUANTITIES		
	BRIDGE DECK	BRIDGE ABUTMENT
CU.YD. OF REINF. CONC.	61	18
	24"Ø	
L.F. OF REINF. CONC. PIER	177	
TONS OF STRUCTURAL STEEL	48	

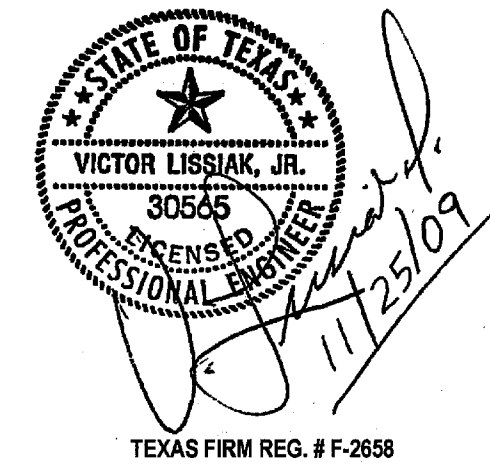
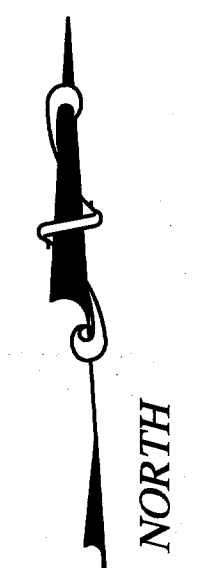


**A TYPICAL PIER DETAIL**  
N.T.S.

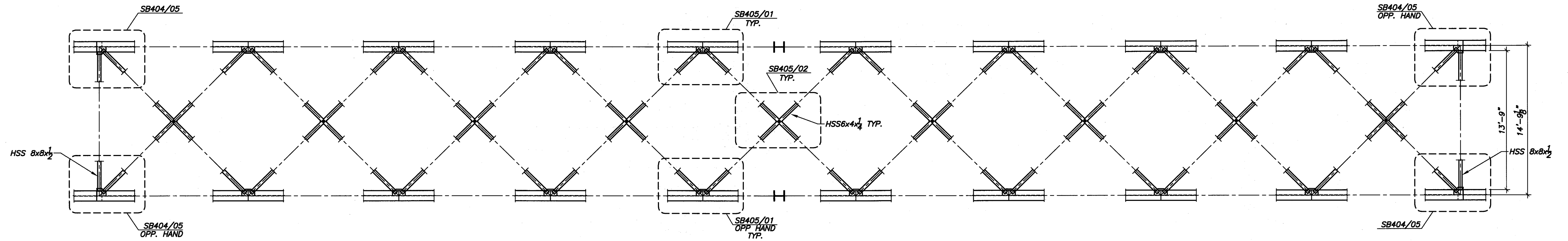


**PIER LEGEND**

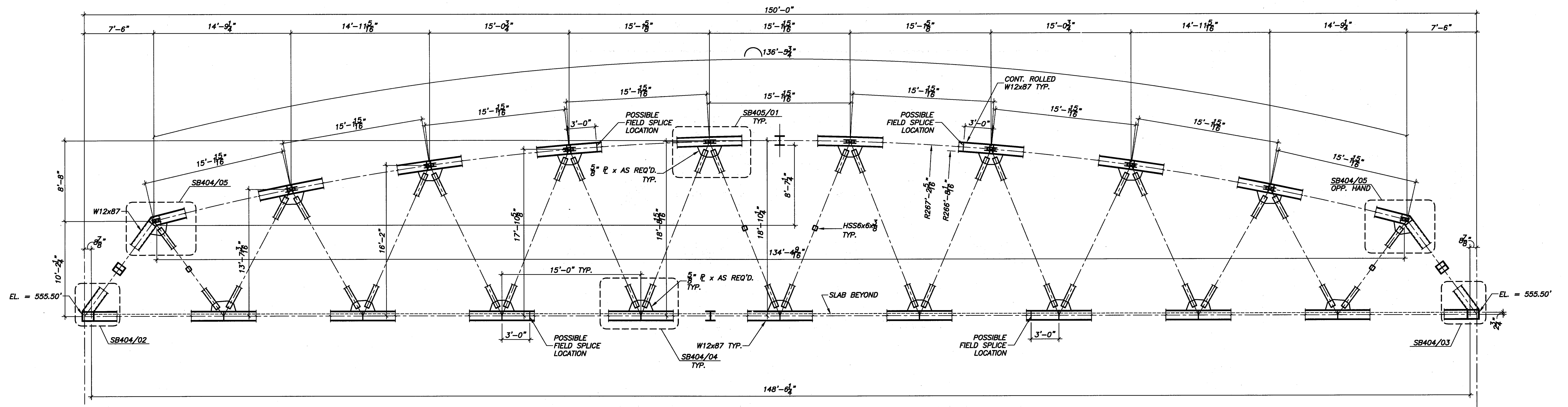
EXISTING 100 YEAR WATER SURFACE ELEVATION AT @ OF PEDESTRIAN BRIDGE = 552.65'  
 PROPOSED 100 YEAR WATER SURFACE ELEVATION AT @ OF PEDESTRIAN BRIDGE = 552.35'  
 STREAM FLOW = 8,944 CFS  
 NOTE: DO NOT IMPEDE EXISTING STREAM FLOW CAPACITY WITH BRIDGE DECK FORMING SYSTEM.



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TOWN OF ADDISON DALLAS COUNTY, TEXAS			
VITRUVIAN PARK BRIDGES SOUTHERN PEDESTRIAN			
<b>ELEVATION &amp; PLANS</b>			
<b>VIEWTECH, INC.</b> Structural Engineers		4205 Beltway Dr. - Addison, Texas 75001 (972) 661-8187 Fax (972) 661-8172	
PROJECT	DESIGN	DRAWN	DATE
2007.144	VL	NERF	NOV. 25 2009
FILE	SHEET		
-	<b>SB400</b>		

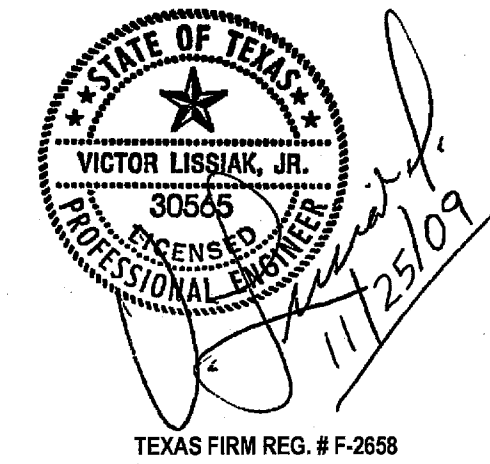


02 TOP CHORD BRACING PLAN  
1/8" = 1'-0"

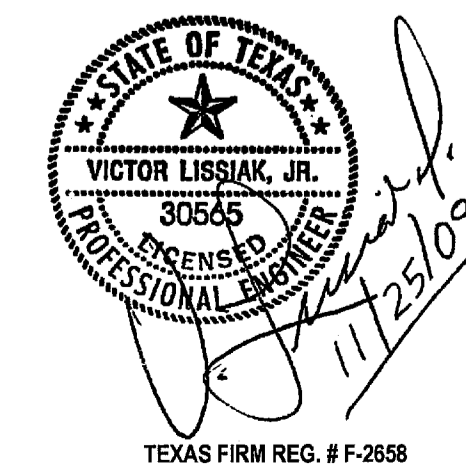
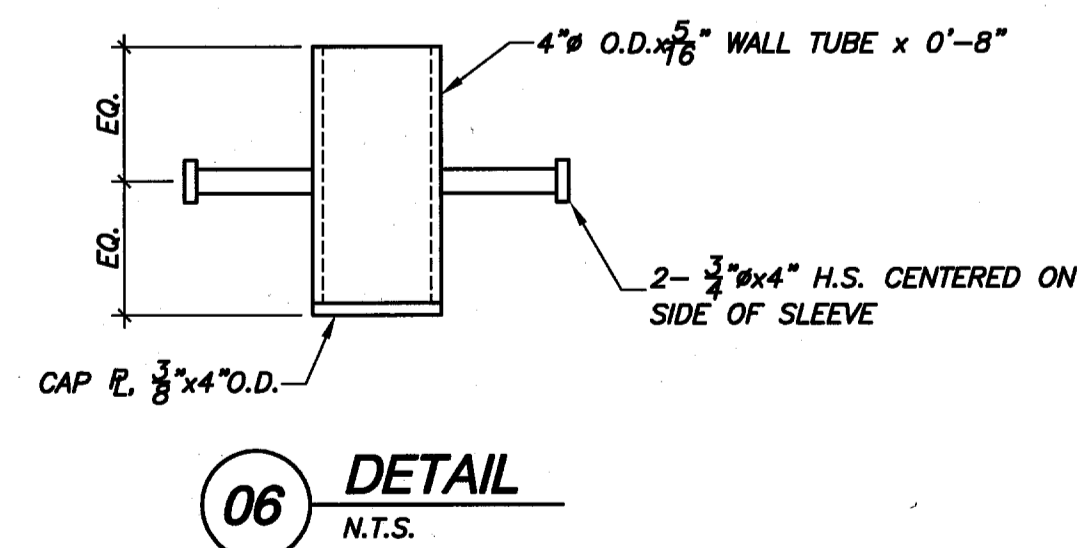
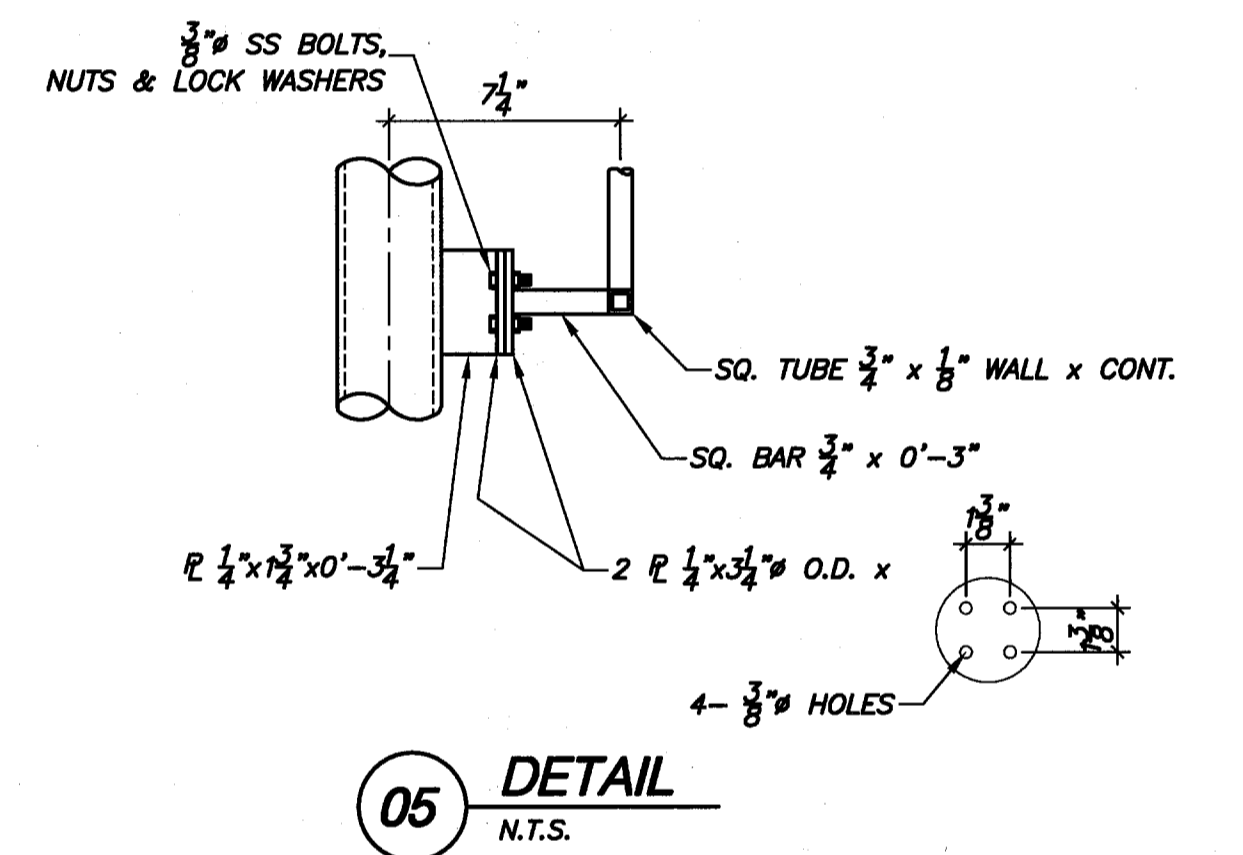
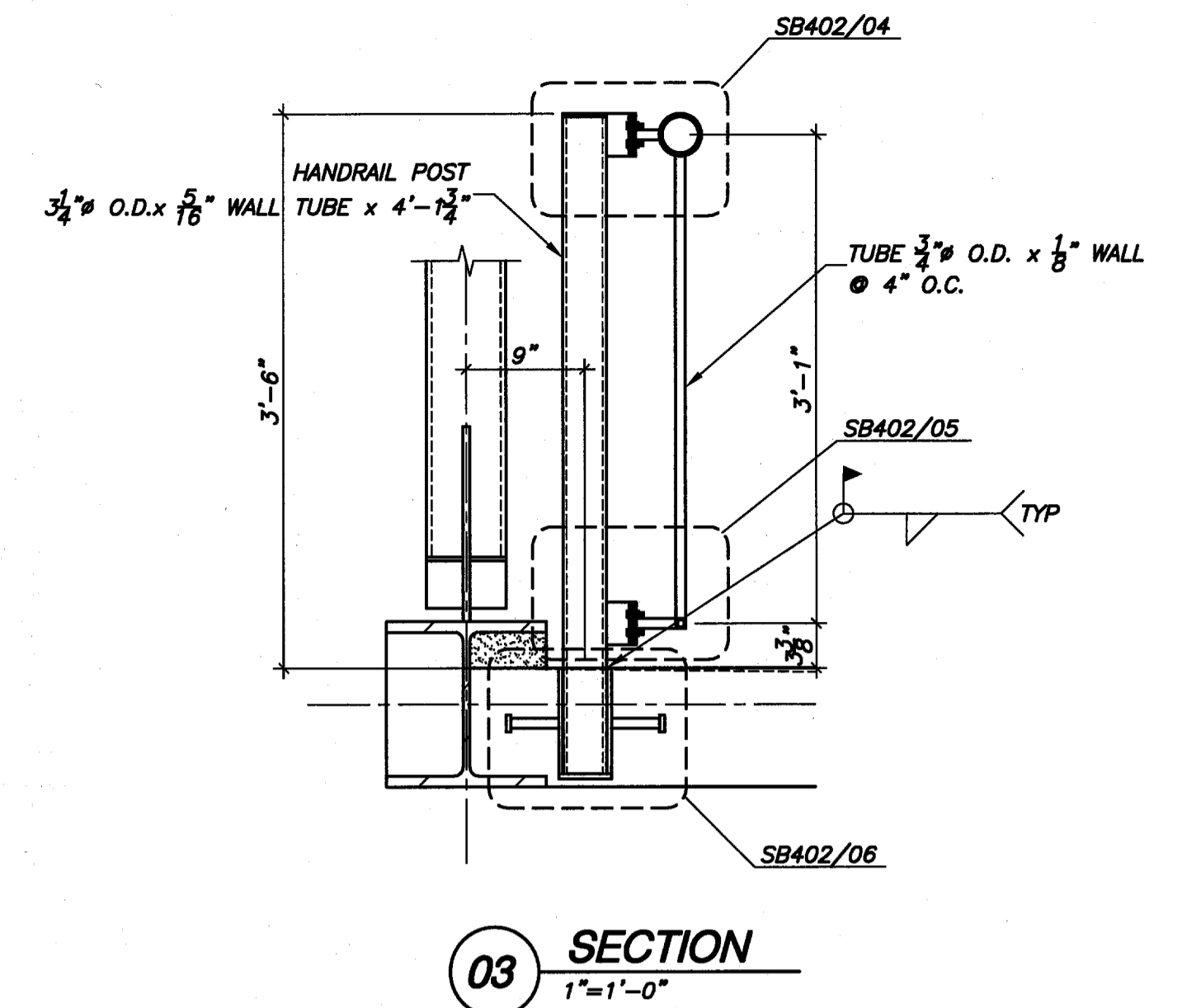
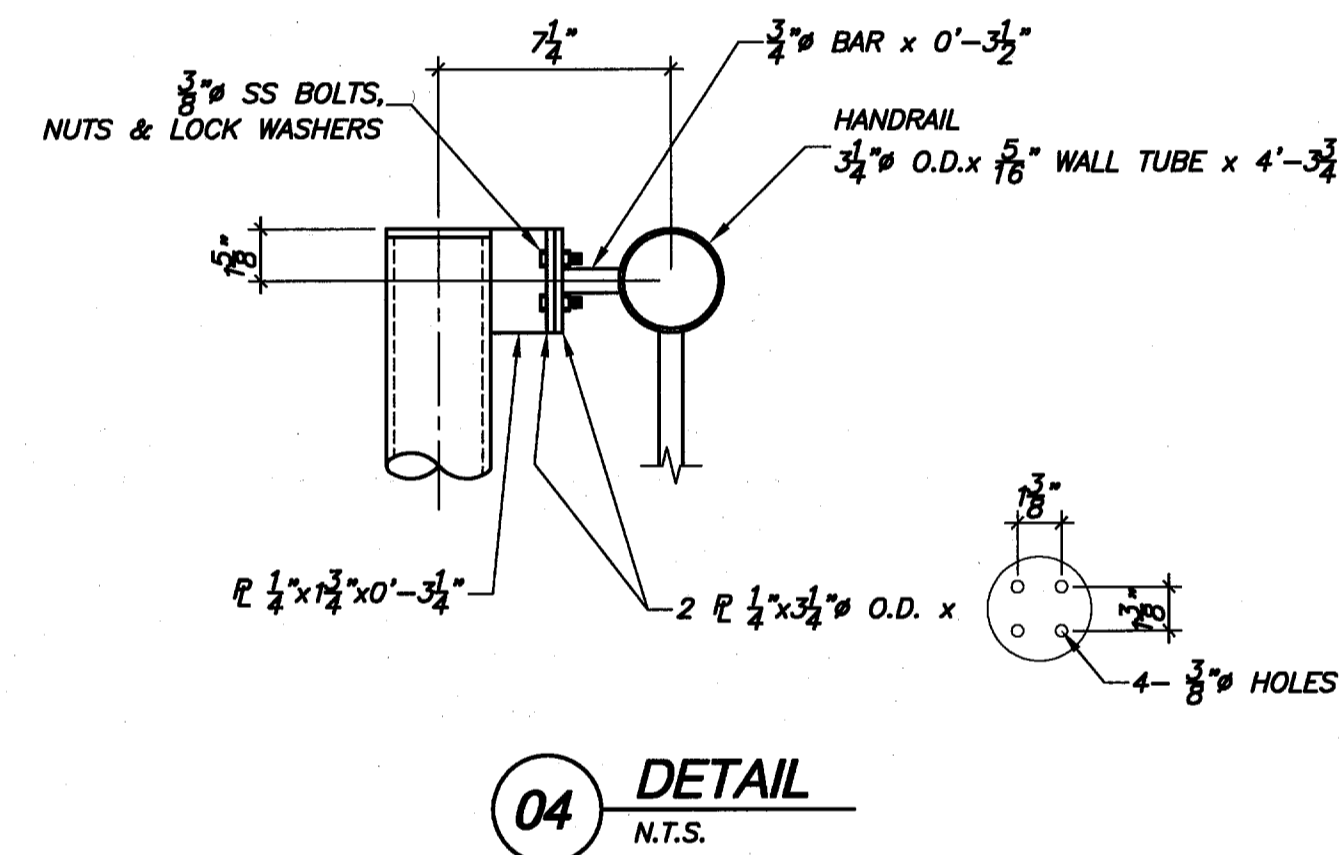
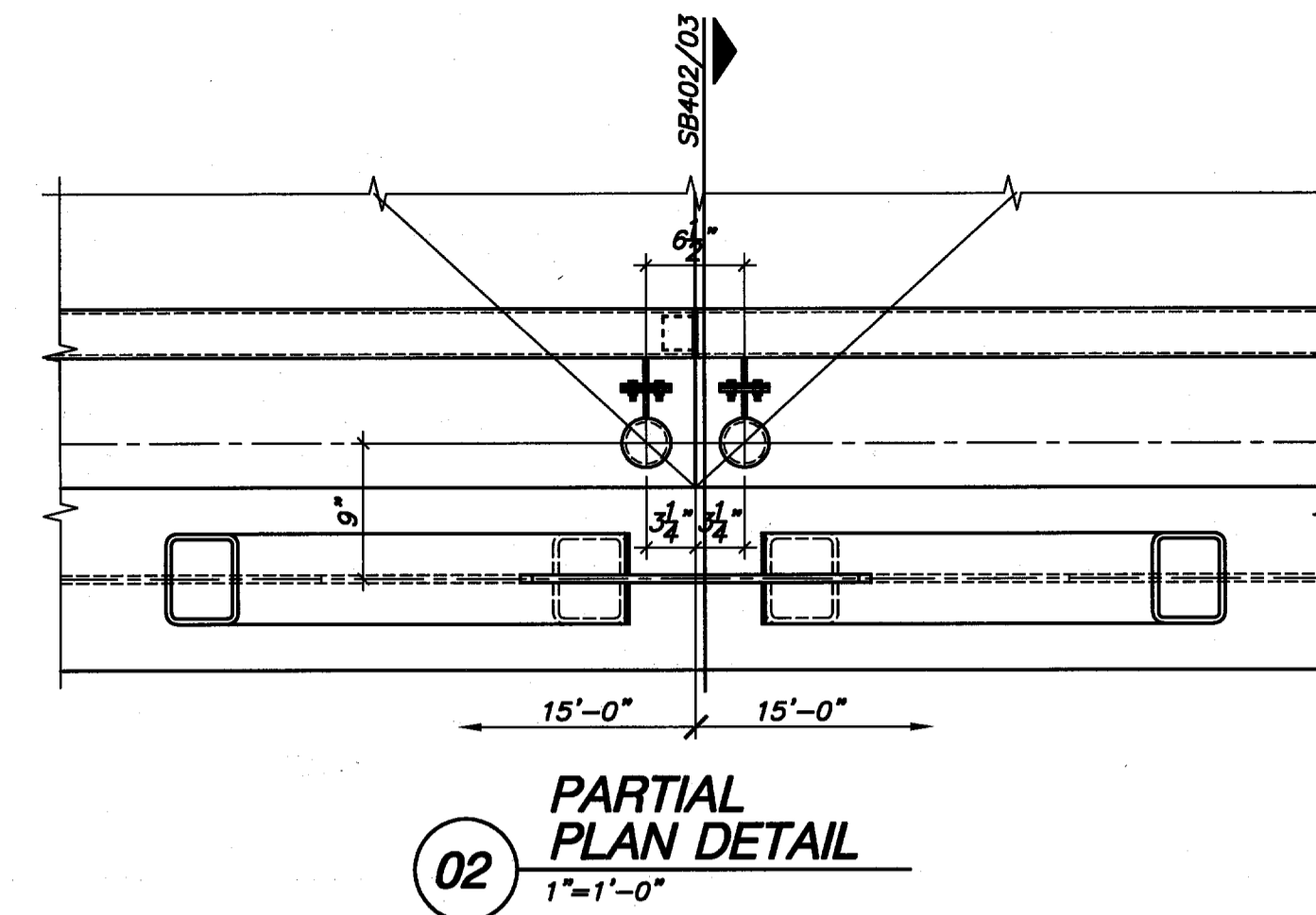
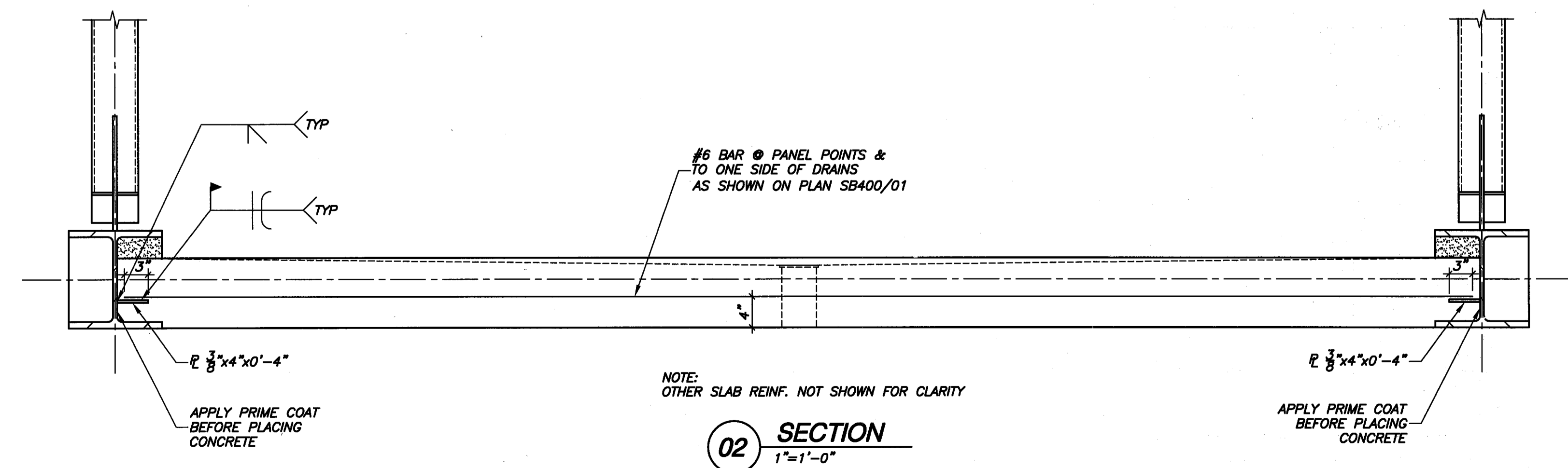
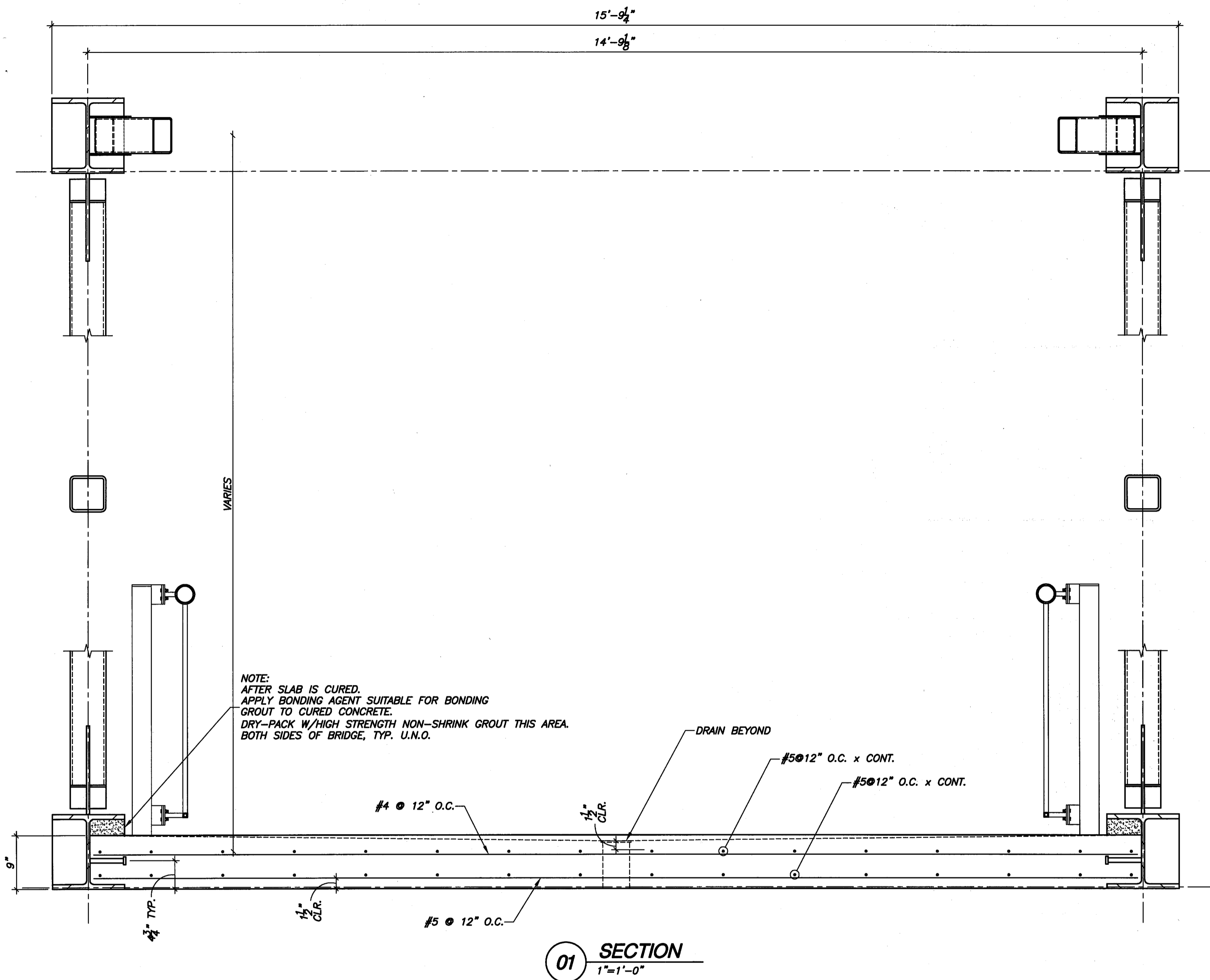


01 TRUSS PROFILE  
1/8" = 1'-0"

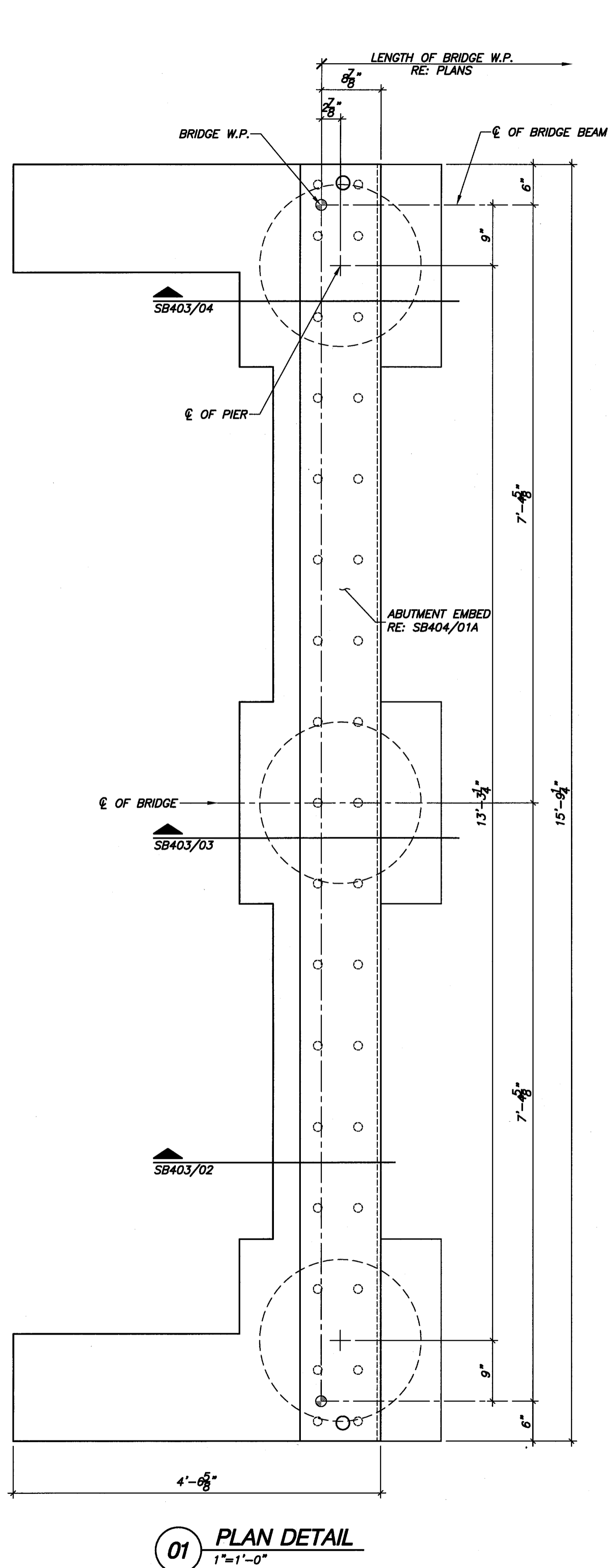
NOTE:  
1. GEOMETRY SHOWN IS THAT REQUIRED FOR FABRICATION AND DOES NOT REPRESENT CHANGES IN SHAPE THAT WILL OCCUR FROM LOADING.  
2. REFER TO SB407 FOR DEFLECTION PLAN.



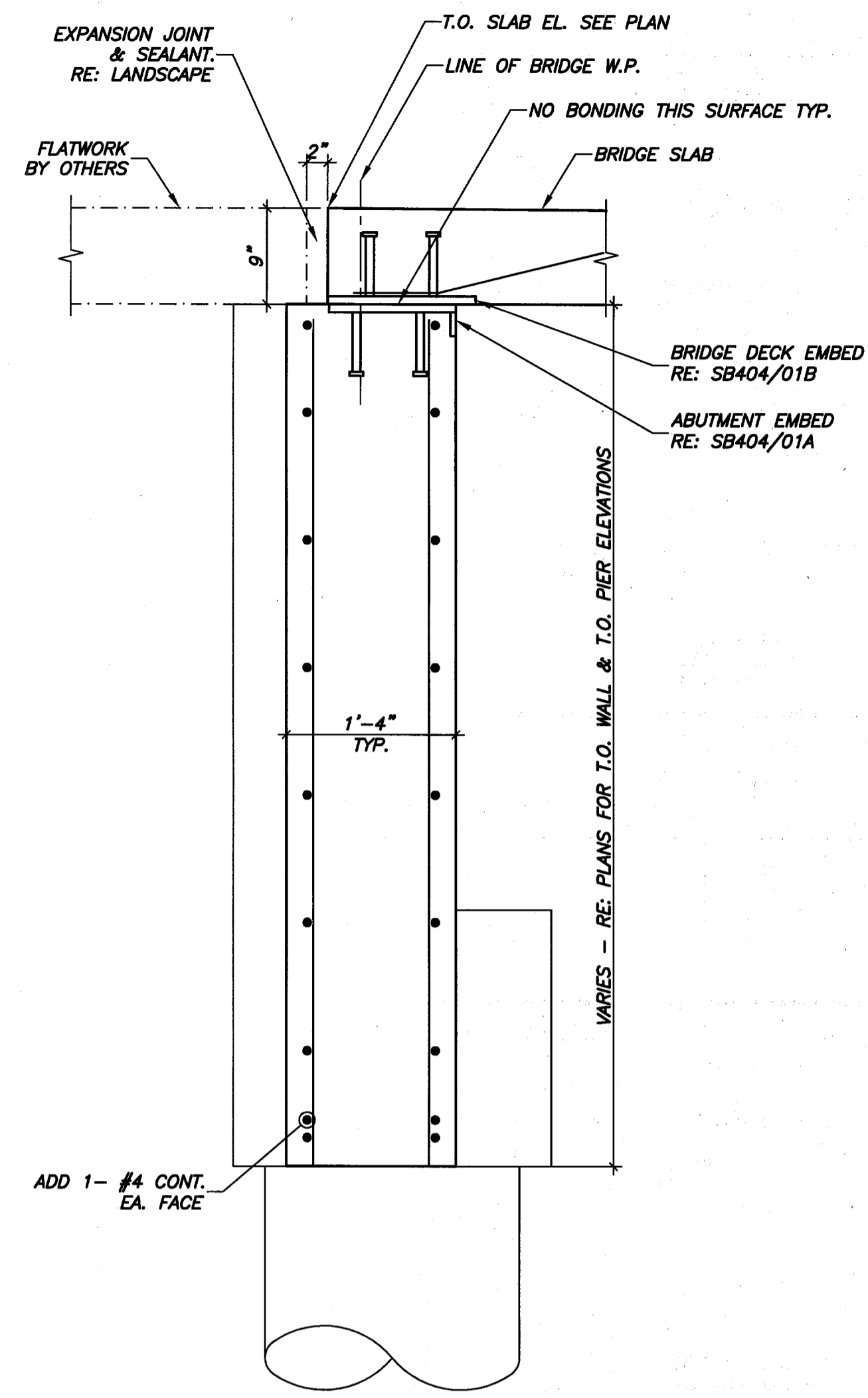
PRELIMINARY—FOR REVIEW ONLY		01/25/09	
NO.	REVISION	BY	DATE
TOWN OF ADDISON DALLAS COUNTY, TEXAS			
VITRUVIAN PARK BRIDGES SOUTHERN PEDESTRIAN			
<b>SECTION &amp; PLAN</b>			
<b>VIEWTECH, INC.</b> Structural Engineers		4205 Beltway Dr. - Addison, Texas 75001 (972) 681-8187 Fax (972) 681-8172	
PROJECT	DESIGN	DRAWN	DATE
2007.144	VL	NERF	NOV. 25 2009
			FILE
			SHEET
			SB401



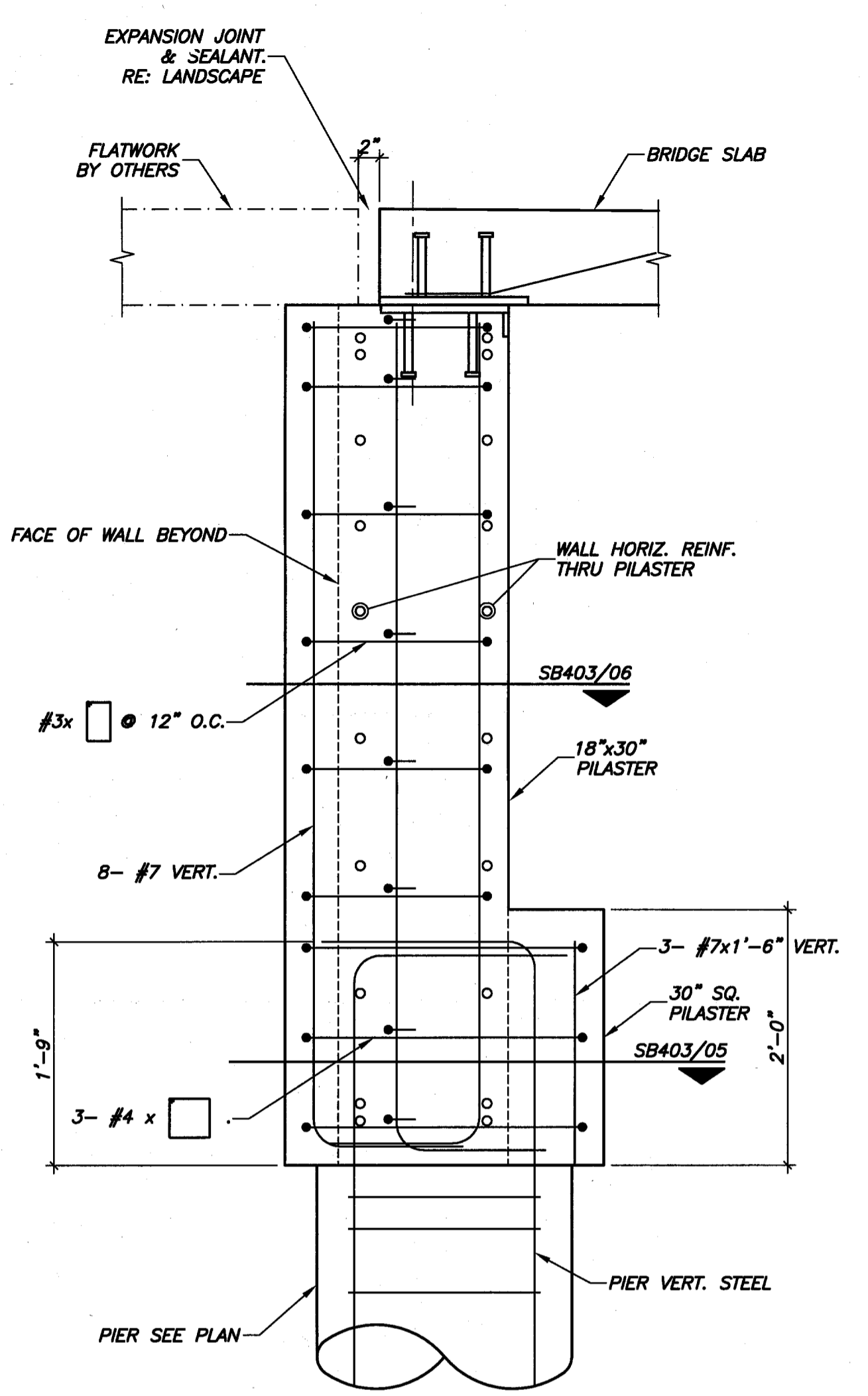
PRELIMINARY-FOR REVIEW ONLY		01/25/09
NO.	REVISION	BY DATE
TOWN OF ADDISON DALLAS COUNTY, TEXAS		
VITRUVIAN PARK BRIDGES SOUTHERN PEDESTRIAN		
ELEVATION & PLANS		
VIEWTECH, INC. Structural Engineers		4205 Beltway Dr. - Addison, Texas 75001 (972) 661-8187 Fax (972) 661-8172
PROJECT	DESIGN	DRAWN
2007.144	VL	NERF
DATE	FILE	SHEET
NOV. 25 2009	-	SB402



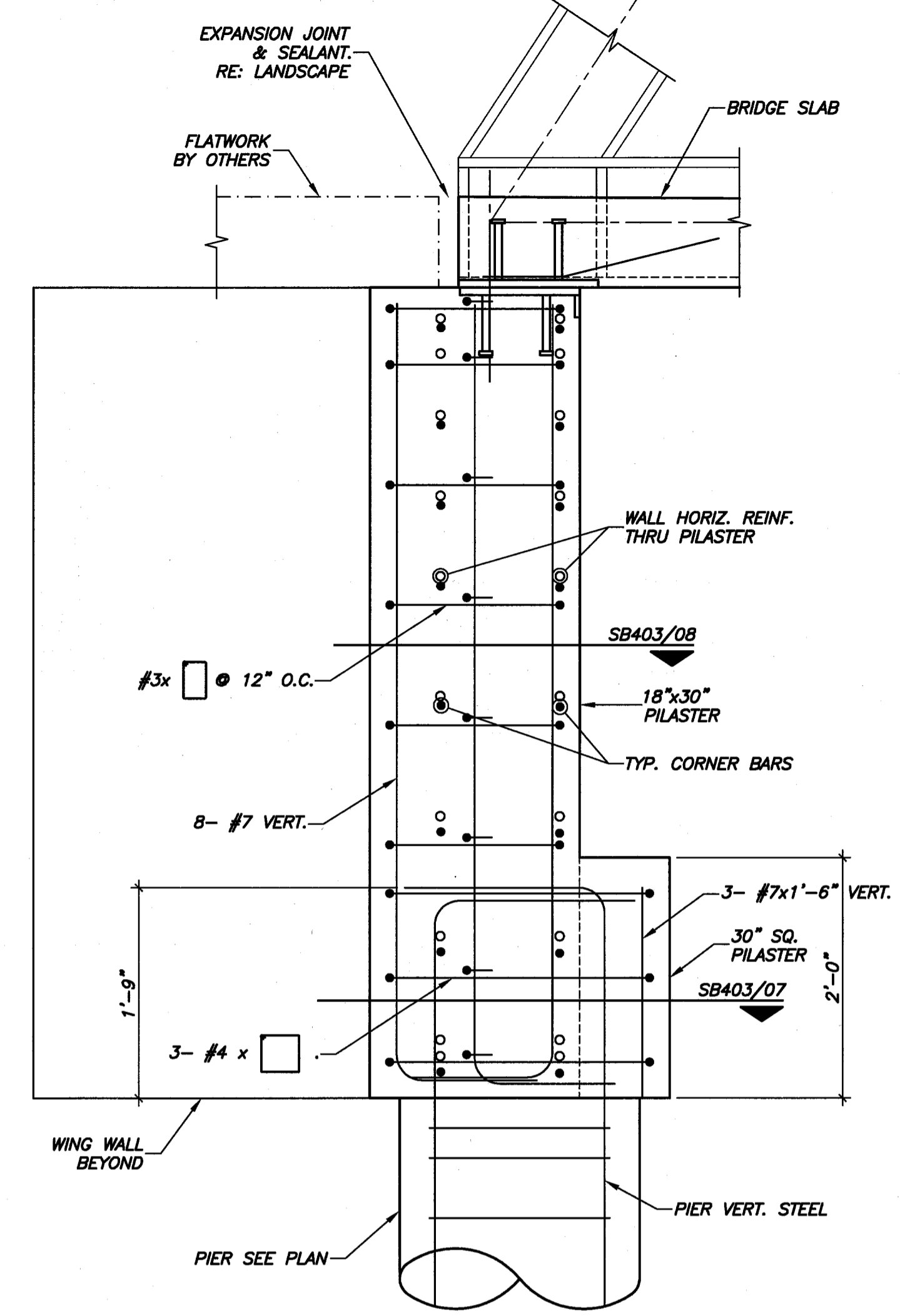
**01 PLAN DETAIL**  
1"=1'-0"



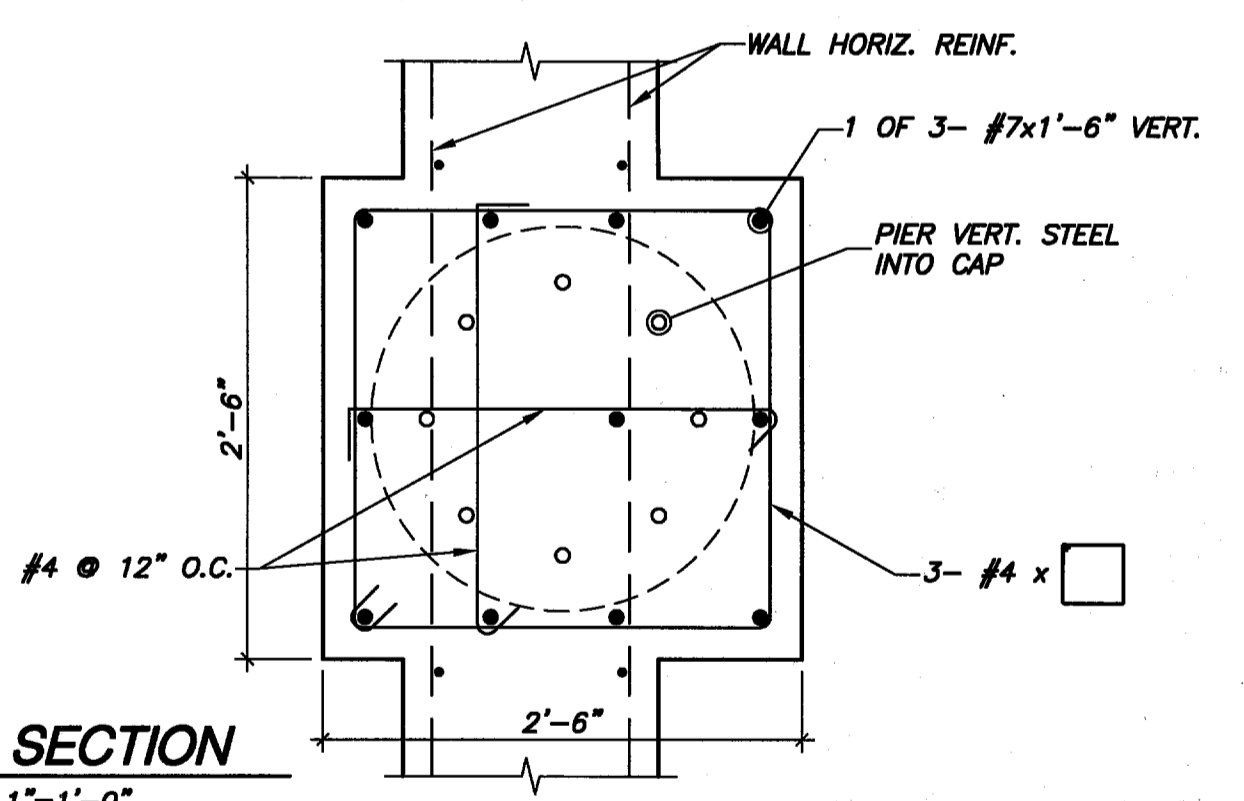
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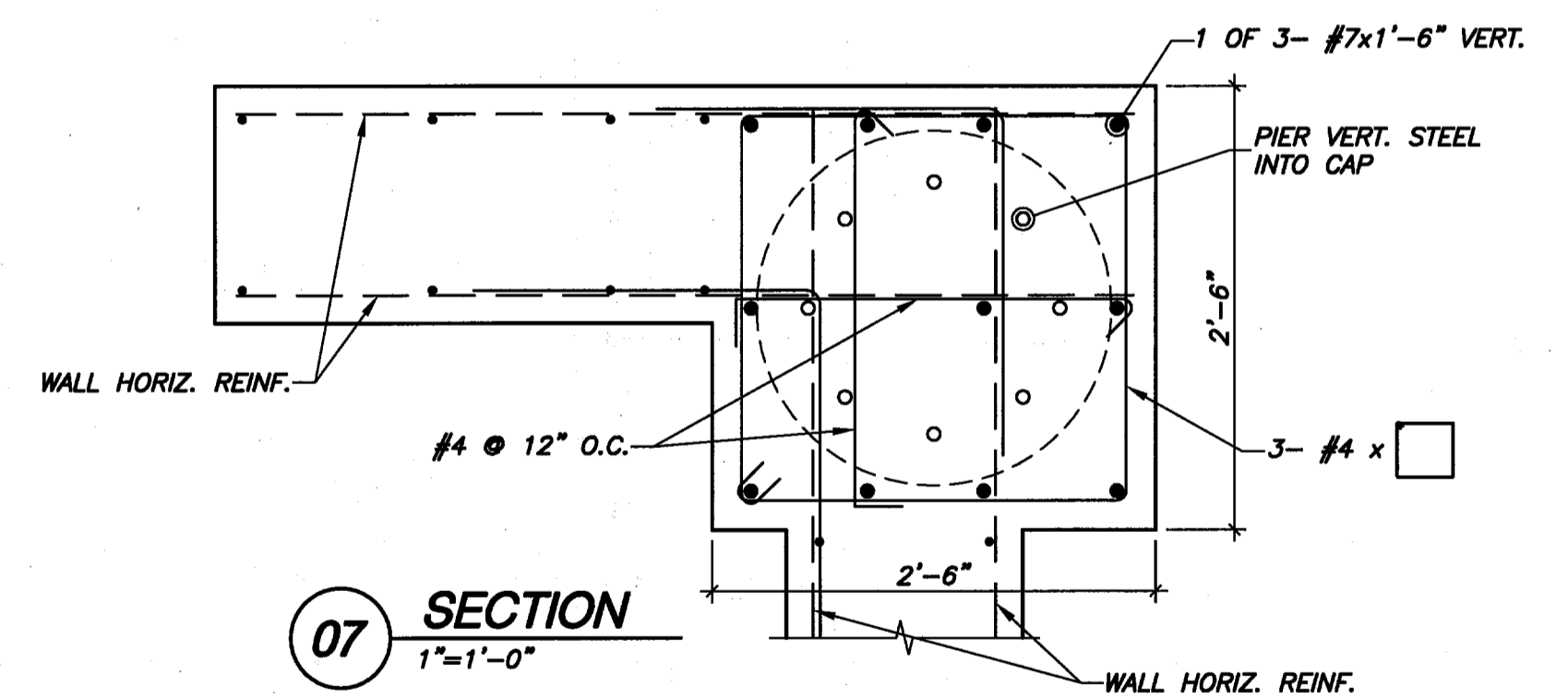
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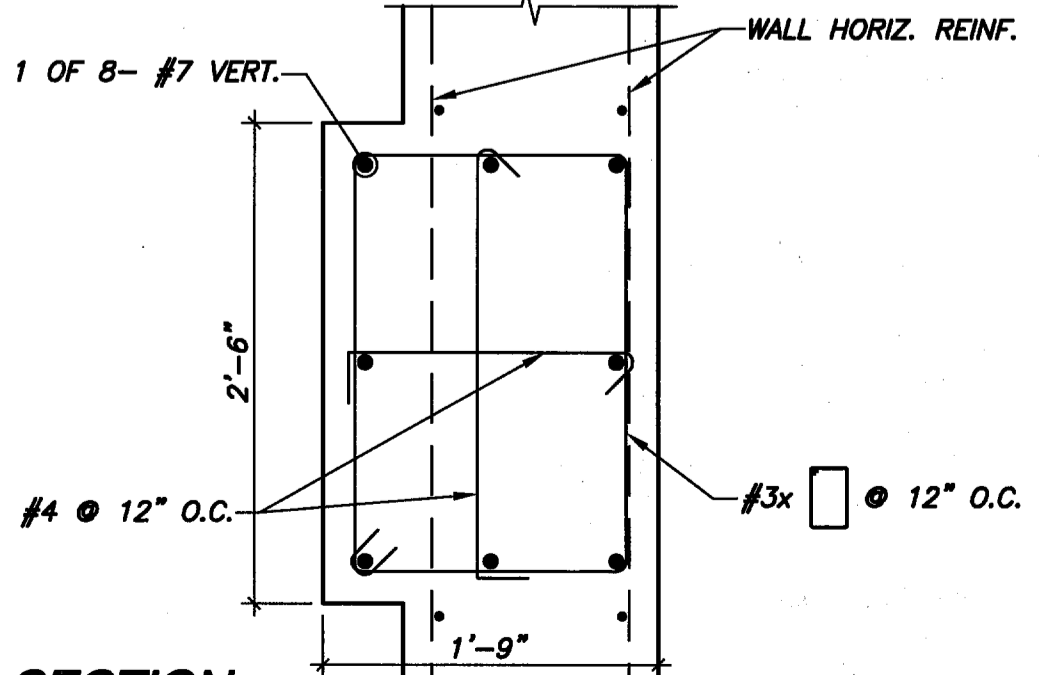
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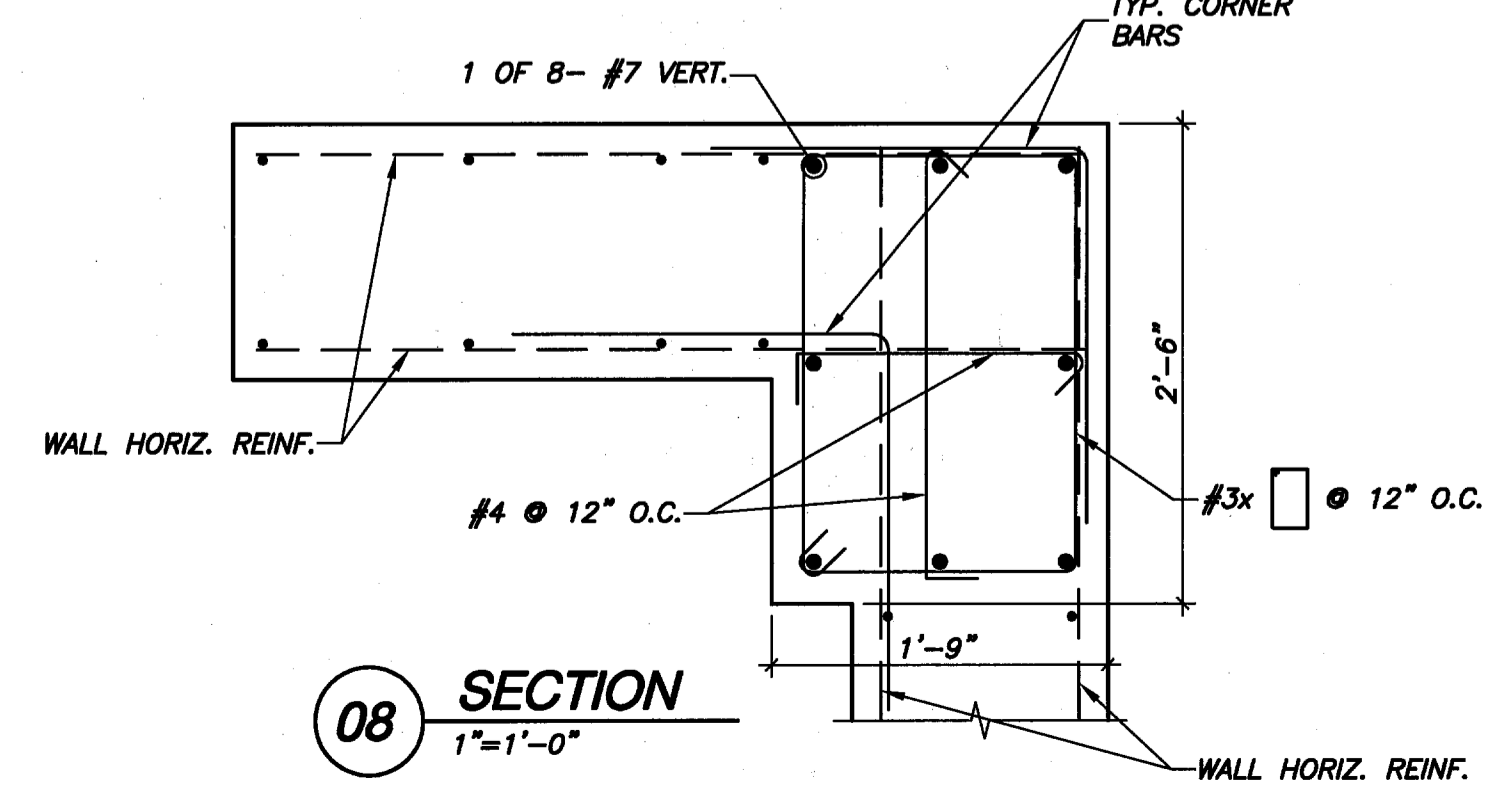
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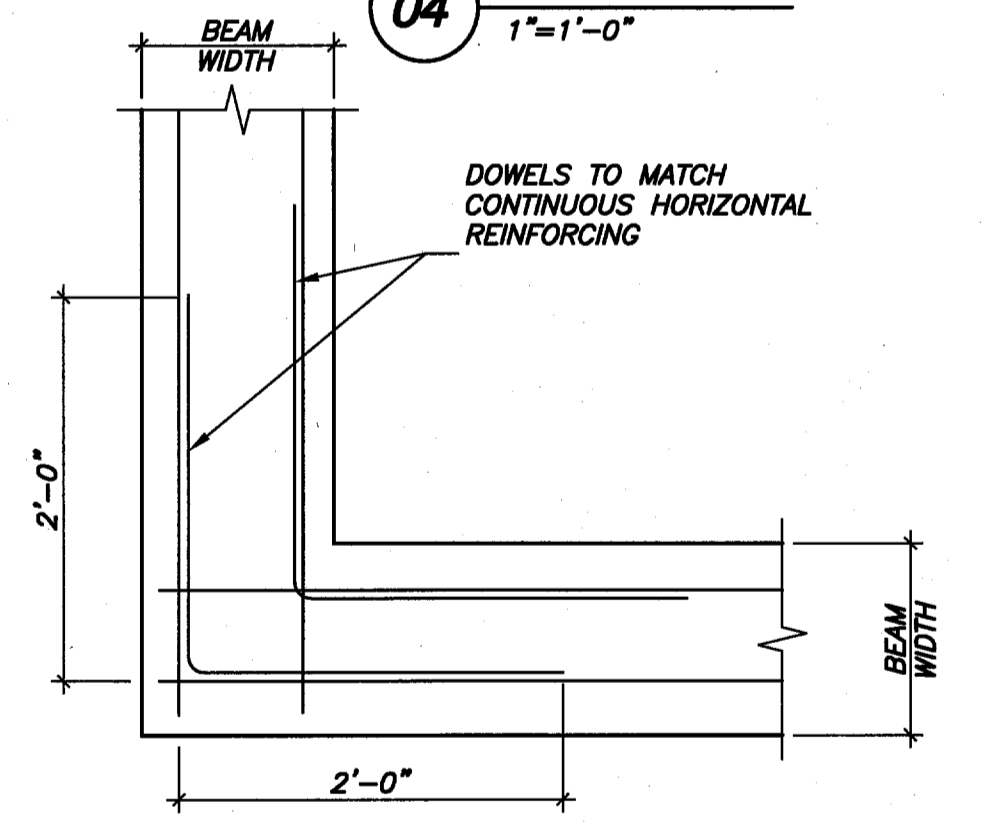
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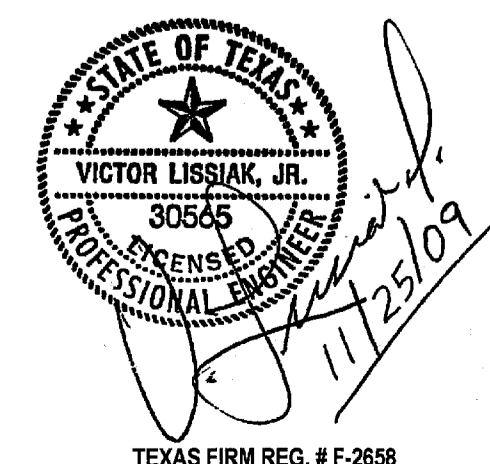
**06 SECTION**  
1"=1'-0"



**08 SECTION**  
1"=1'-0"

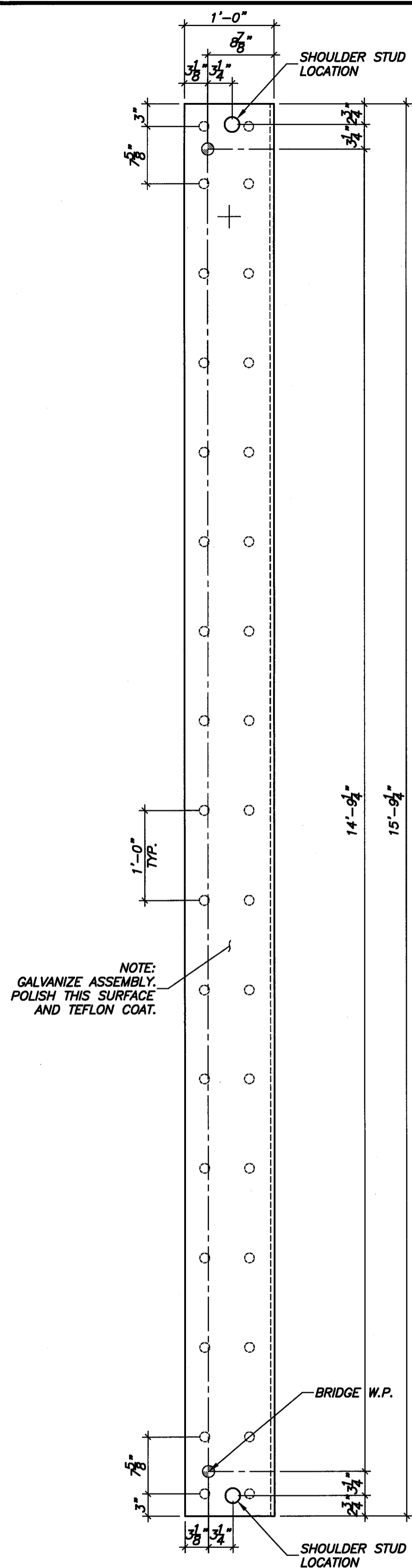


**A TYP. CORNER BAR DET.**  
N.T.S.



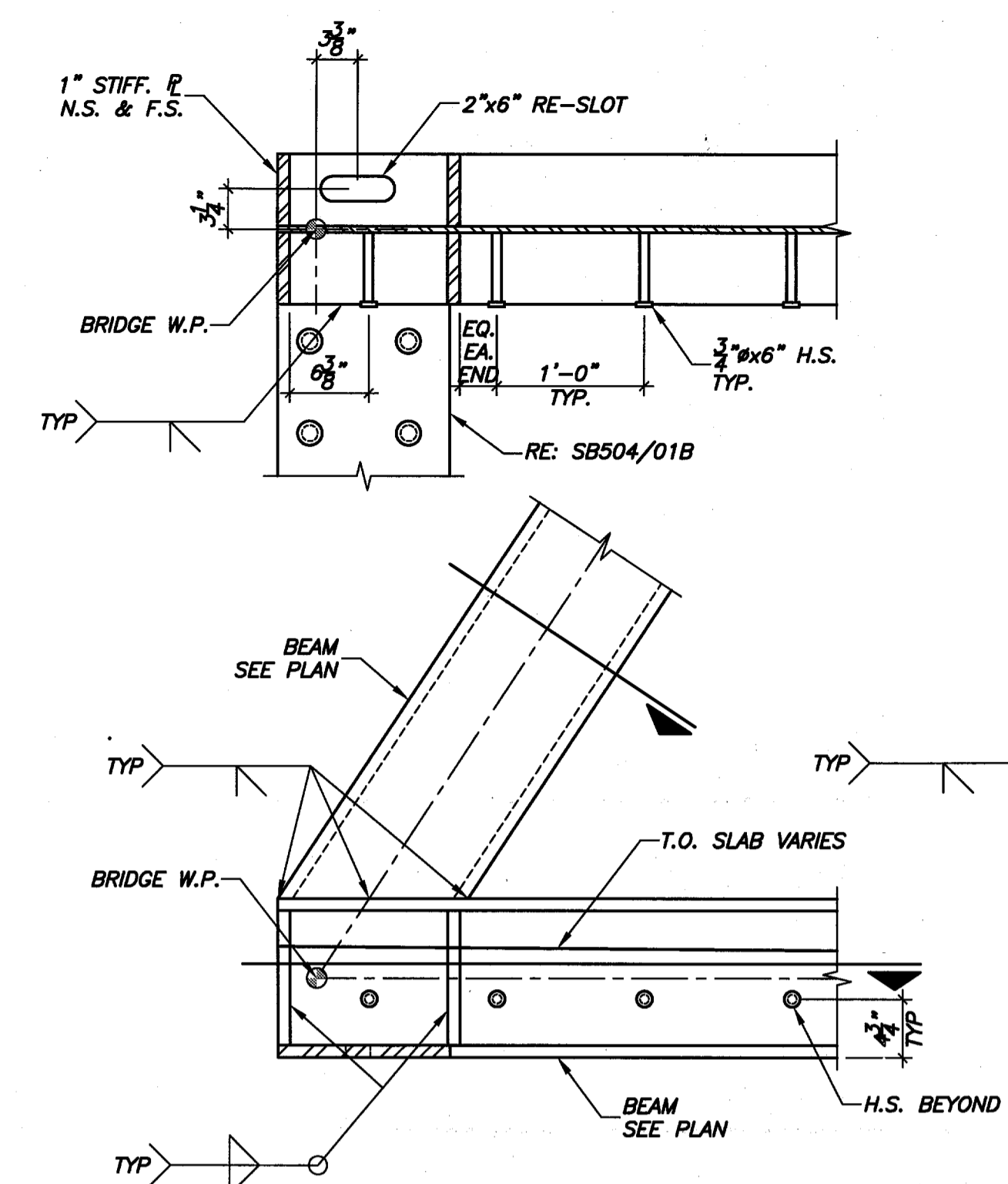
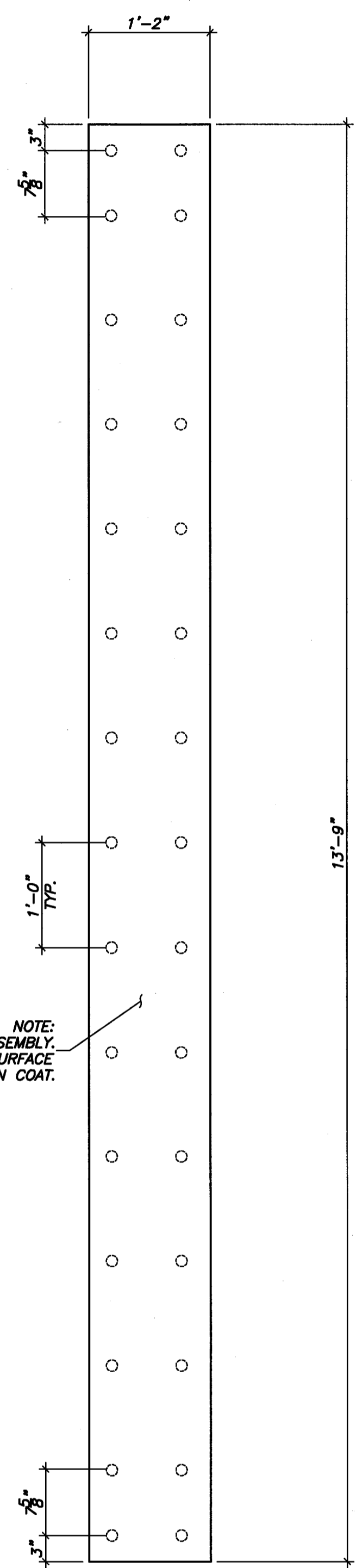
PRELIMINARY-FOR REVIEW ONLY						01/25/09
NO.	REVISION	BY	DATE			
<b>TOWN OF ADDISON</b> DALLAS COUNTY, TEXAS						
<b>VITRUVIAN PARK BRIDGES</b> PEDESTRIAN						
<b>SECTIONS &amp; DETAILS</b>						
<b>VIEWTECH, INC.</b>			4205 Beltway Dr. - Addison, Texas 75001			
Structural Engineers			(972) 661-8187 Fax (972) 661-8172			
PROJECT	DESIGN	DRAWN	DATE	FILE	SHEET	
2007.144	VL	NERF	NOV. 25 2009	-	<b>SB403</b>	

TEXAS FIRM REG. # F-2658

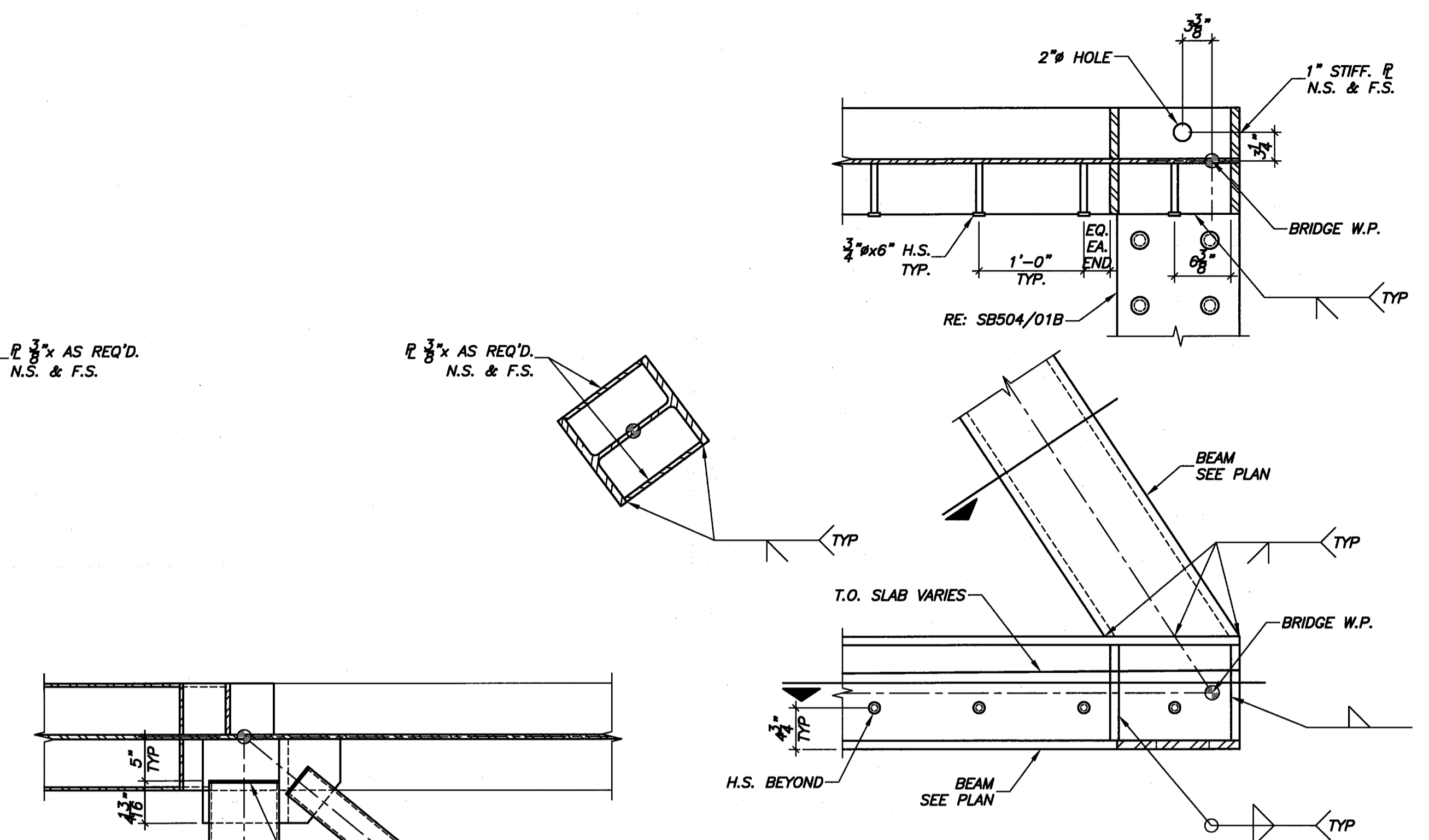


NOTE:  
GALVANIZE ASSEMBLY.  
POLISH THIS SURFACE  
AND TEFLON COAT.

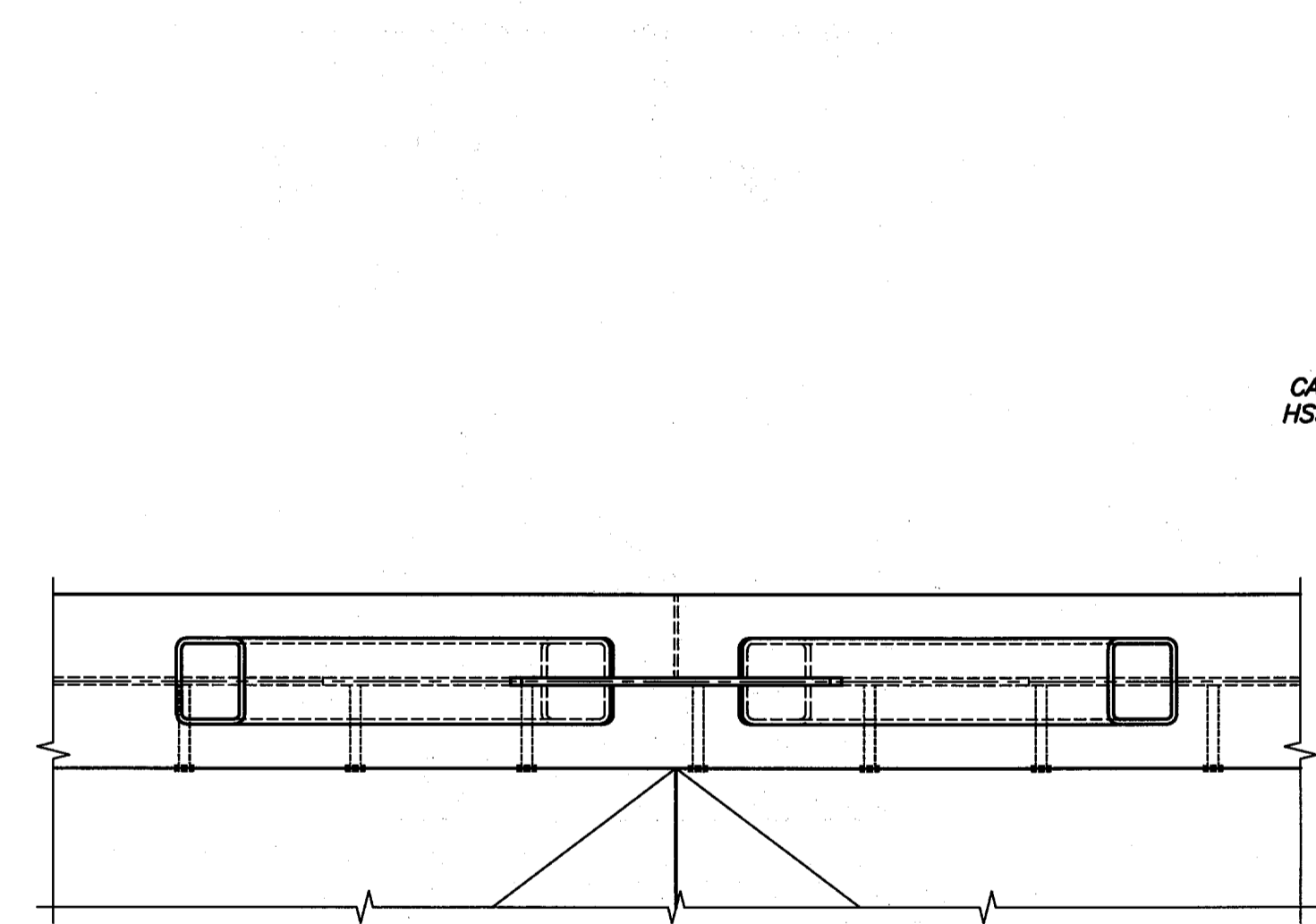
NOTE:  
GALVANIZE ASSEMBLY.  
POLISH THIS SURFACE  
AND TEFLON COAT.



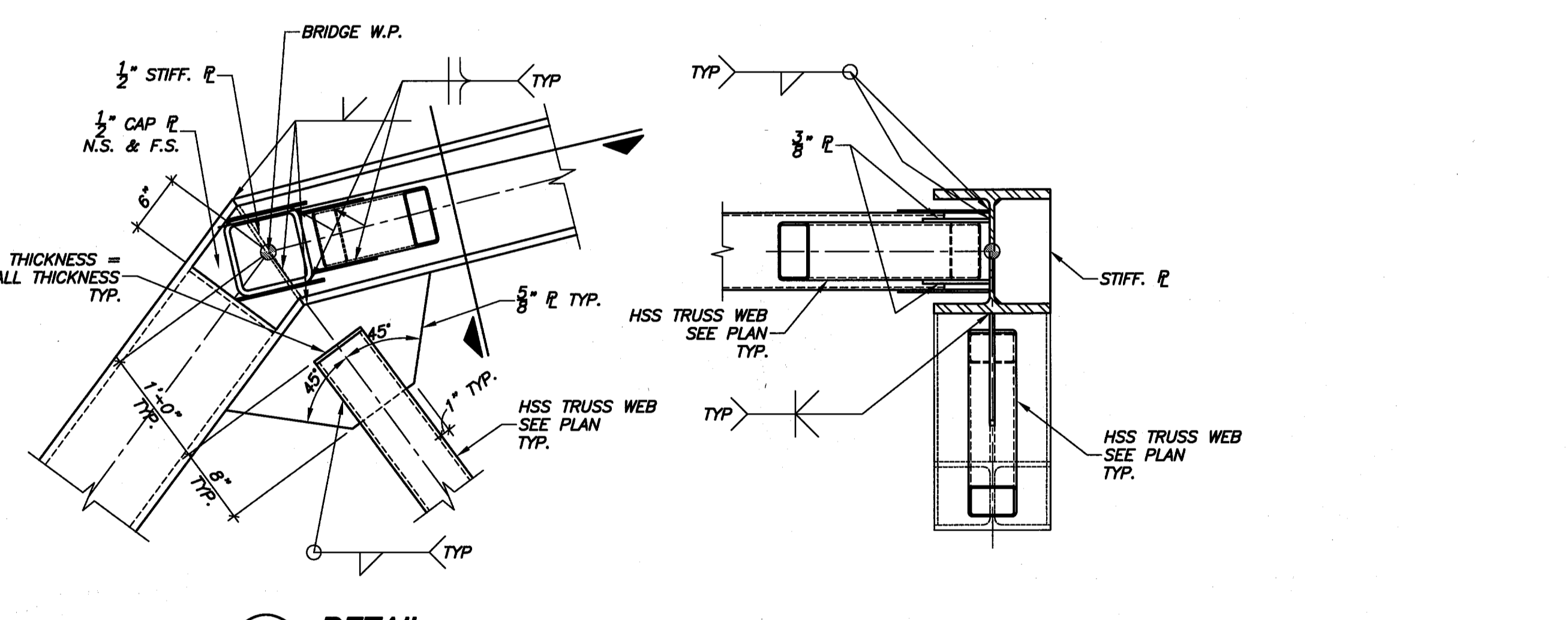
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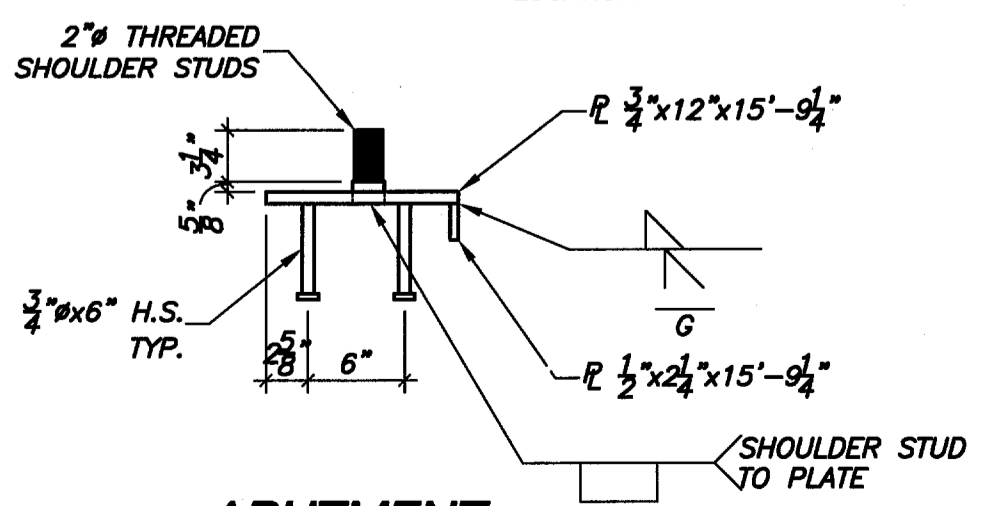
**03** DETAIL  
1"=1'-0"



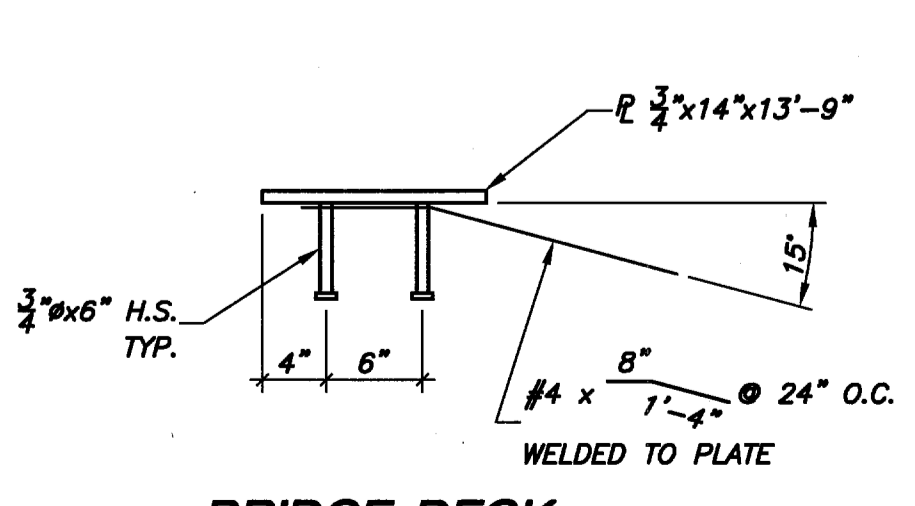
**04** DETAIL  
1"=1'-0"



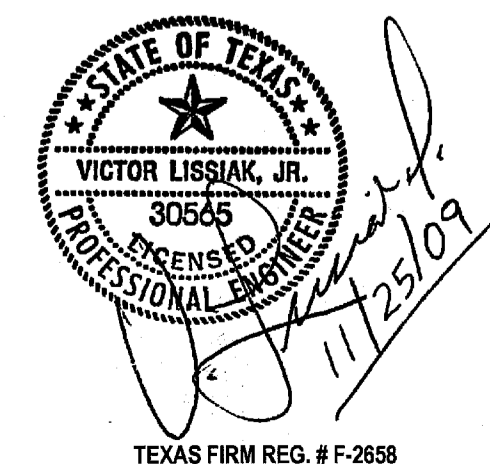
**05** DETAIL  
1"=1'-0"



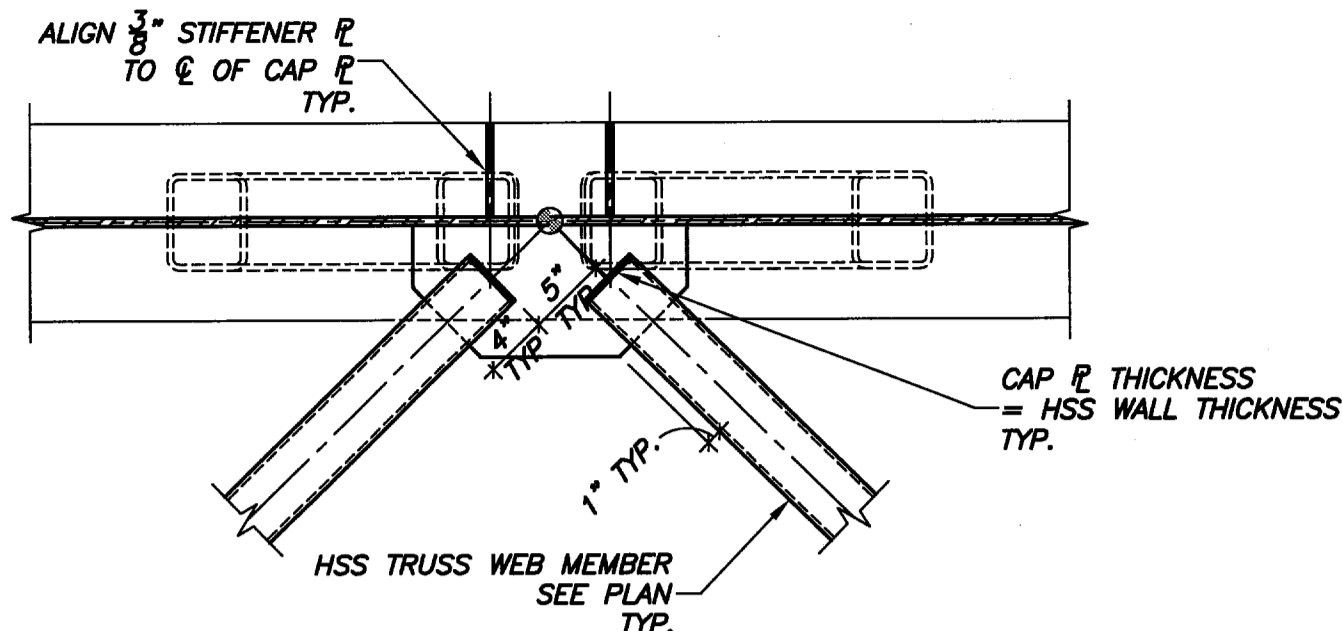
**01A** ABUTMENT  
EMBED DETAIL  
1"=1'-0"



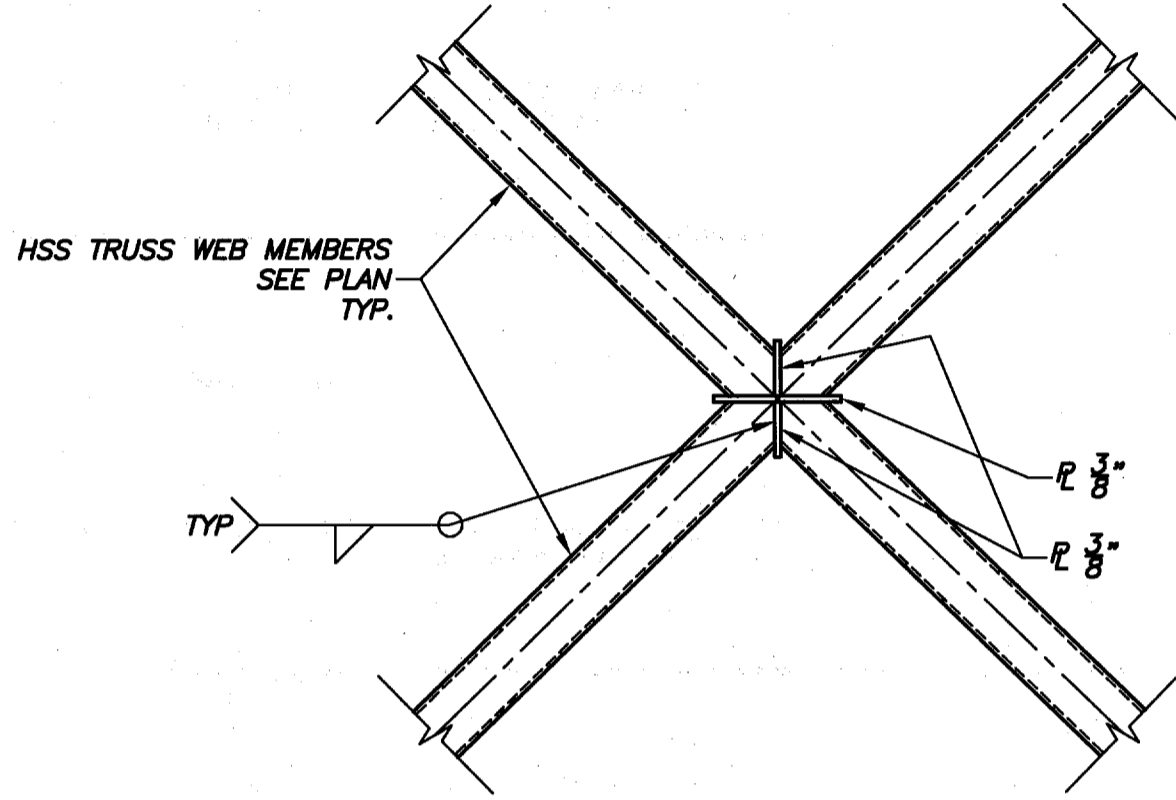
**01B** BRIDGE DECK  
EMBED DETAIL  
1"=1'-0"



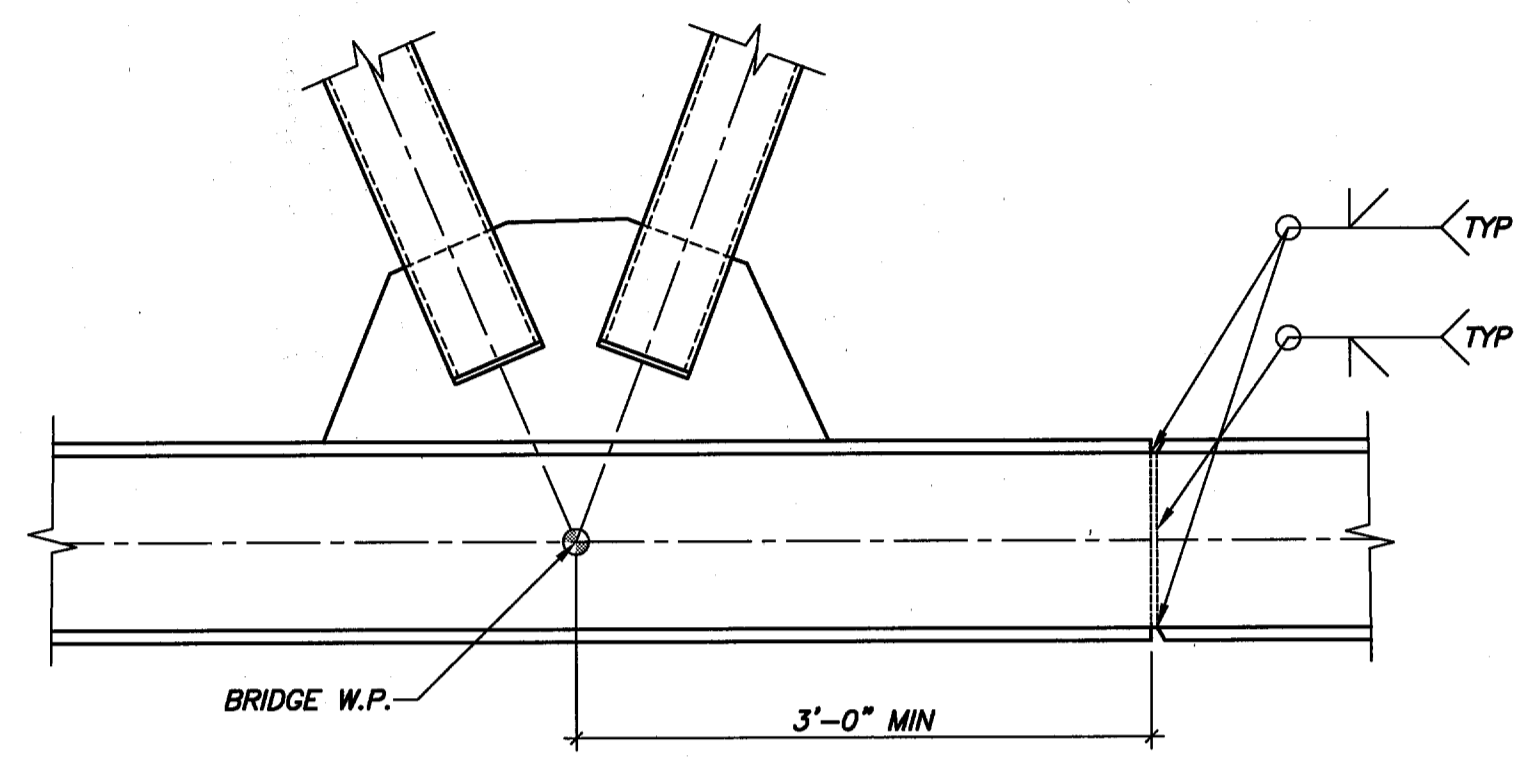
1	ADDENDUM	06/29/09
	PRELIMINARY-FOR REVIEW ONLY	01/25/08
NO.	REVISION	BY DATE
TOWN OF ADDISON DALLAS COUNTY, TEXAS VITRUVIAN PARK BRIDGES PEDESTRIAN SECTIONS & DETAILS		
<b>VIEWTECH, INC.</b>		
Structural Engineers		4205 Beltway Dr. - Addison, Texas 75001 (972) 661-8187 Fax (972) 661-8172
PROJECT	DESIGN	DRAWN
2007.144	VL	NERF
DATE	FILE	SHEET
NOV. 25 2009	-	SB404



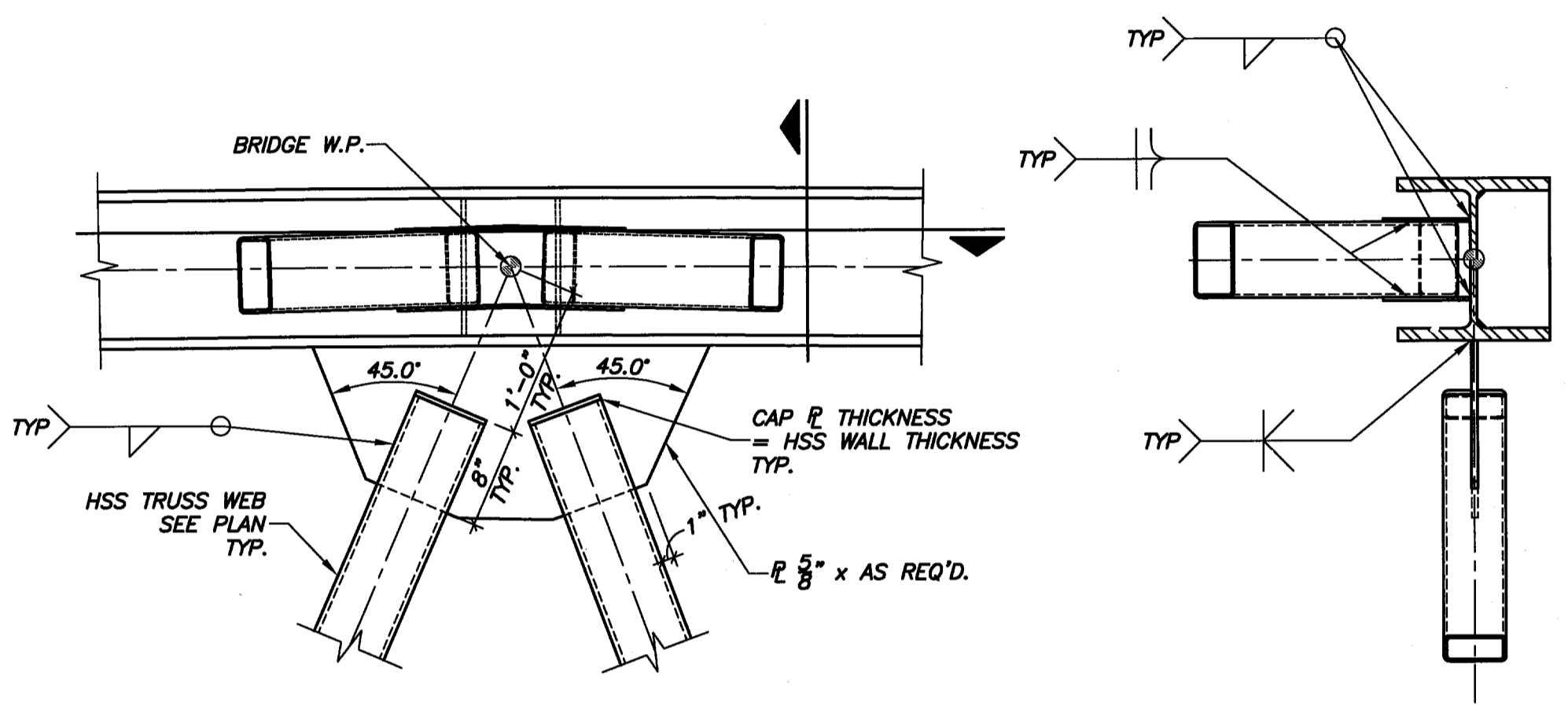
01 DETAIL  
1"=1'-0"



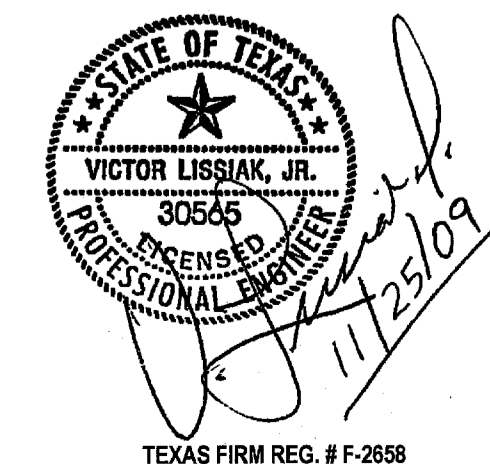
02 DETAIL  
1"=1'-0"



03 TYP. BOTTOM CHORD FIELD SPLICE DETAIL  
1"=1'-0"

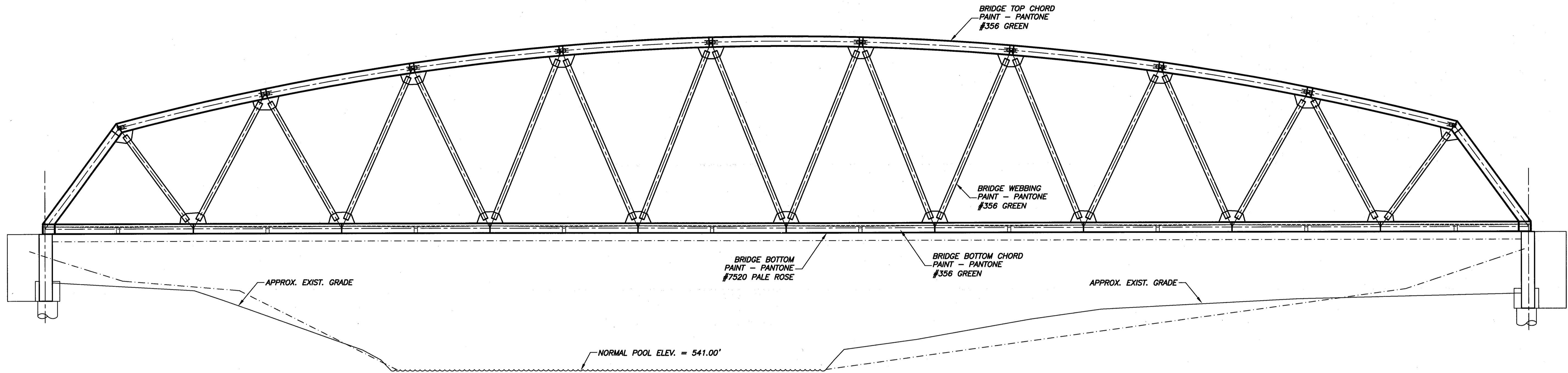


04 TYP. TOP CHORD FIELD SPLICE DETAIL  
1"=1'-0"



1	ADDENDUM		06/29/09
	PRELIMINARY—FOR REVIEW ONLY		01/25/09
NO.	REVISION	BY	DATE
TOWN OF ADDISON DALLAS COUNTY, TEXAS			
VITRUVIAN PARK BRIDGES PEDESTRIAN			
SECTIONS & DETAILS			
<b>VIEWTECH, INC.</b> Structural Engineers		4205 Beltway Dr. - Addison, Texas 75001 (972) 661-8187 Fax (972) 661-8172	
PROJECT	DESIGN	DRAWN	DATE
2007.144	VL	NERF	NOV. 25 2009
FILE			SHEET
-			SB405





**02 BRIDGE ELEVATION**  
3/16"=1'-0"

**PAINING FOR STEEL & CONCRETE**

**PART 1: GENERAL**

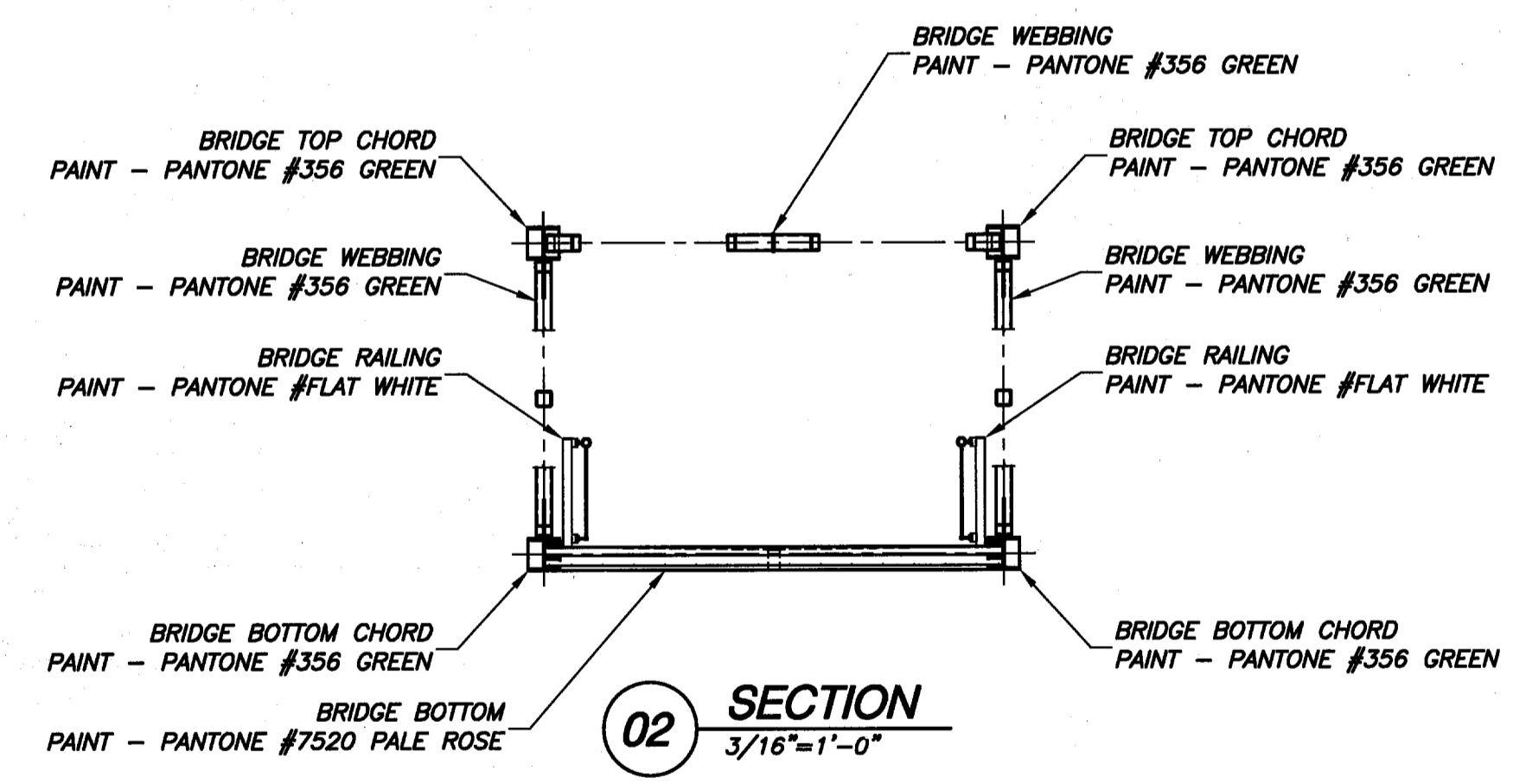
- 1.1 SUMMARY**  
A. THIS SPECIFICATION IS INTENDED FOR PAINTING STEEL AND CONCRETE SURFACES AS INDICATED ON THE PAINT DRAWINGS.
- 1.2 REFERENCES**  
A. STEEL STRUCTURES PAINTING COUNCIL, NATIONAL ASSOCIATION OF CORROSION ENGINEERS (SSPC): STEEL STRUCTURES PAINTING MANUAL, VOLUME 2, SYSTEMS AND SPECIFICATIONS.
- 1.3 ACCEPTABLE MANUFACTURERS**  
MATERIALS MANUFACTURED BY THE FOLLOWING MANUFACTURERS LISTED BELOW ARE ACCEPTABLE:  
CARBOLINE  
CORONADO  
PORTER  
SHERWIN-WILLIAMS  
TNE MEC
- 1.4 SUBMITTALS**  
A. PRODUCT DATA: SUBMIT MANUFACTURER'S SPECIFICATIONS TO EVIDENCE COMPLIANCE WITH THESE SPECIFICATIONS. INCLUDE LABEL ANALYSIS OF FINISH COATING.  
B. SAMPLES: FERROUS METAL: PROVIDE TWO 8" SQUARE SAMPLES OF SOLID METAL FOR EACH COLOR SELECTED. DEFINE PRIME AND FINISH COATS.  
C. SUBMIT MANUFACTURER'S INSTALLATION INSTRUCTIONS.
- 1.5 QUALITY ASSURANCE**  
A. SINGLE SOURCE RESPONSIBILITY: PROVIDE PRIMER MATERIAL PRODUCED BY THE SAME MANUFACTURER AS THE FINISH COATS. USE ONLY THINNERS RECOMMENDED BY THE MANUFACTURER, AND ONLY WITHIN RECOMMENDED LIMITS.
- 1.6 JOB CONDITIONS**  
A. APPLY COATING ONLY WHEN THE TEMPERATURE OF SURFACES TO BE COATED AND SURROUNDING AIR TEMPERATURES ARE ABOVE 45 DEG. F (7 DEG. C), UNLESS OTHERWISE PERMITTED BY MANUFACTURER'S PRINTED INSTRUCTIONS.  
B. DO NOT APPLY COATING IN SNOW, RAIN, FOG OR MIST, OR WHEN THE RELATIVE HUMIDITY EXCEEDS 85 PERCENT, OR AT TEMPERATURES LESS THAN 5 DEG. F (3 DEG. C) ABOVE THE DEW POINT, OR TO DAMP OR WET SURFACES UNLESS OTHERWISE PERMITTED BY MANUFACTURER'S PRINTED INSTRUCTION. ALLOW WET SURFACES TO DRY THOROUGHLY AND ATTAIN THE TEMPERATURE AND CONDITIONS SPECIFIED BEFORE PROCEEDING WITH OR CONTINUING THE COATING OPERATION.

**PART 2: PRODUCTS**

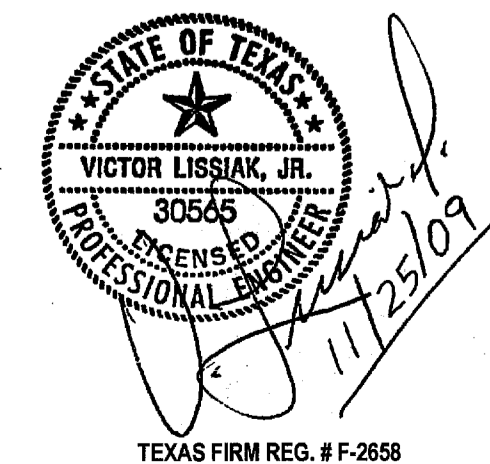
- 2.1 MATERIALS**  
A. PRIMER: ORGANIC ZINC RICH PRIMER: PROVIDE FACTORY FORMULATED PRIME COAT MATERIAL COMPATIBLE WITH THE SUBSTRATE AND FINISH COATS INDICATED. PRIMER SHALL BE A TWO OR THREE COMPONENT POLYAMIDE EPOXY ZINC-RICH COATING. PRIMERS SHALL CONTAIN NO LEAD.  
CARBOLINE: NO 858  
CORONADO: POLYAMIDE EPOXY ZINC RICH PRIMER, 101-152  
PORTER: ZINC-LOCK NO 308  
SHERWIN-WILLIAMS: ZINC CLAD IV  
TNE MEC: 90-97  
B. 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: "RECOATABLE EPOXY PRIMER", B67 SERIES  
TNE MEC: SERIES 66 "HI-BUILD EPOXOLINE"  
C. 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  
TNE MEC: SERIES 75, "ENDURA-SHIELD" HIGH BUILD POLYURETHANE  
D. COLOR OF TOPCOAT: AS SPECIFIED ON DRAWINGS.

**PART 3: EXECUTION**

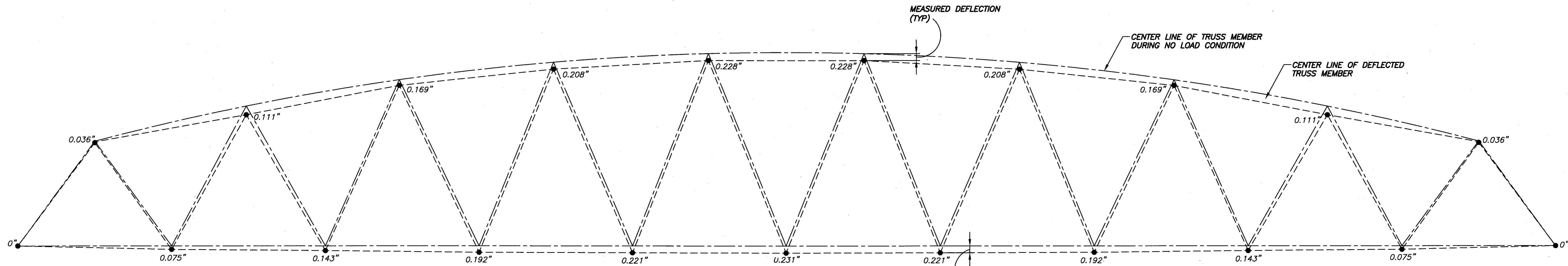
- 3.1 EXAMINATION**  
A. EXAMINE: SUBSTRATE SURFACES TO RECEIVE SPECIAL COATINGS SYSTEM. STARTING WORK WITHIN A PARTICULAR AREA WILL BE CONSTRUED AS APPLICATOR'S ACCEPTANCE OF SURFACE CONDITIONS.
- 3.2 PREPARATION**  
A. REMOVE GREASE AND OIL BY SOLVENT CLEANING AS RECOMMENDED BY THE COATING MANUFACTURER AND IN ACCORDANCE WITH THE SSPC SP1.  
B. SURFACES SHALL RECEIVE A COMMERCIAL BLAST CLEANING AS RECOMMENDED BY THE COATING SYSTEM MANUFACTURER AND IN ACCORDANCE WITH THE REQUIREMENTS OF SSPC SPECIFICATION SSPC SP6 AND SSPC -SP-COM.
- 3.3 PROTECTION**  
A. PROTECT WORK OF OTHER TRADES, WHETHER TO BE COATED OR NOT, AGAINST DAMAGE FROM COATING. CORRECT DAMAGE BY CLEANING, REPAIRING, REPLACING AND RE-COATING.



<b>PANTONE #356 GREEN:</b>	<b>PANTONE #7520 PALE ROSE:</b>
C: 83	C: 7
M: 32	M: 25
Y: 79	Y: 22
K: 18	K: 0
R: 42	R: 234
G: 117	G: 195
B: 81	B: 184



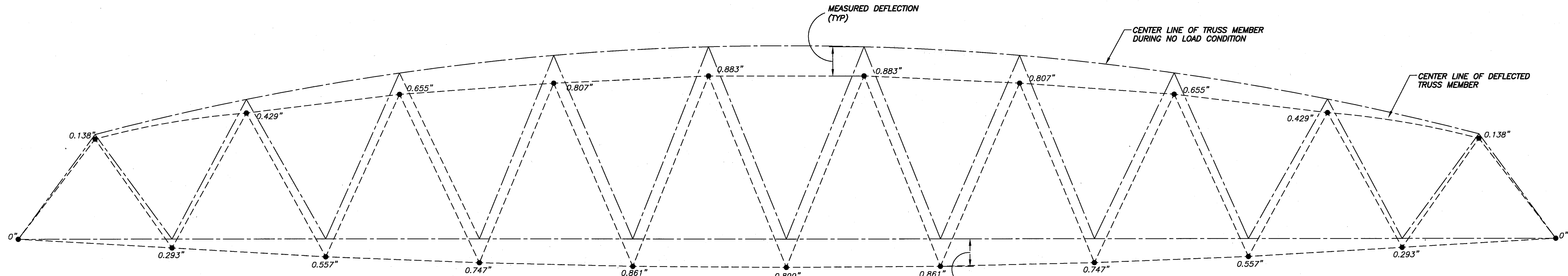
PRELIMINARY-FOR REVIEW ONLY		NO.	REVISION	BY	DATE
					01/25/09
<b>TOWN OF ADDISON</b> DALLAS COUNTY, TEXAS					
<b>VITRUVIAN PARK BRIDGES</b> SOUTHERN PEDESTRIAN					
<b>PAINT SCHEME</b>					
<b>VIEWTECH, INC.</b>		4205 Beltway Dr. - Addison, Texas 75001			
Structural Engineers		(972) 661-8187 Fax (972) 661-8172			
PROJECT	DESIGN	DRAWN	DATE	FILE	SHEET
2007.144	VL	NERF	NOV. 25 2009	-	<b>SB406</b>



**NOTES:**

1. DEFLECTION SHOWN IS DUE TO SELFWEIGHT OF TRUSS ONLY.
2. REFER TO SB401 FOR TRUSS FABRICATED GEOMETRY.
3. DEFLECTED SHAPE EXAGGERATED FOR ILLUSTRATIVE PURPOSES ONLY.

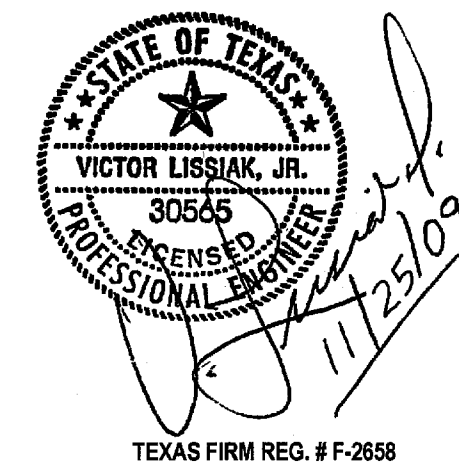
**01 TRUSS DEFLECTION PROFILE**  
NRS



**NOTE:**

1. DEFLECTION SHOWN IS THAT AFTER CONCRETE PLACEMENT.
2. DEFLECTION SHOWN IS THE TOTAL DEAD LOAD DEFLECTION DUE TO TRUSS SELF-WEIGHT AND WEIGHT OF CONCRETE SLAB.
3. REFER TO SB401 FOR TRUSS FABRICATED GEOMETRY.
4. DEFLECTED SHAPE EXAGGERATED FOR ILLUSTRATIVE PURPOSES ONLY.

**02 TRUSS DEFLECTION PROFILE**  
NRS



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					01/25/09
TOWN OF ADDISON DALLAS COUNTY, TEXAS					
VITRUVIAN PARK BRIDGES SOUTHERN PEDESTRIAN					
<b>TRUSS DEFLECTION PROFILE</b>					
<b>VIEWTECH, INC.</b> Structural Engineers		4205 Beltway Dr. - Addison, Texas 75001 (972) 661-8187 Fax (972) 661-8172			
PROJECT	DESIGN	DRAWN	DATE	FILE	SHEET
2007.144	VL	NERF	NOV. 25 2009	-	<b>SB407</b>

TEXAS FIRM REG. # F-2658