

WHARTON COUNTY BRIDGE- 35 FT X 28 FT

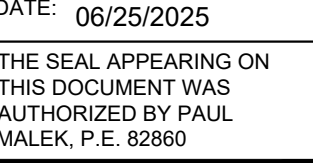
FOR

WHARTON COUNTY

PREPARED BY:



SHEET INDEX	
<u>SHEET No.</u>	<u>SHEET NAME</u>
C0	COVER PAGE
S0	CONSTRUCTION NOTES
S1	BRIDGE FOUNDATION PLAN
S2	BRIDGE STEEL FRAMING SECTIONS



MBC
MANAGEMENT

DESIGN-BUILD | ENGINEERING | GENERAL CONTRACTING

TBPE FIRM NO.: F-789
7984 HWY. 6
NAVASOTA, TX 77868
(P): 936-825-1603
(F): 936-825-1624

NAME & LOCATION: WHARTON COUNTY BRIDGE - 35 FT X 28 FT
BRATCHER SLOUGH CREEK, COUNTY ROAD 204
WHARTON, TX

Z:\MBC PROJECTS\2025\25-0089 - WAKEFIELD BRIDGE- WHARTON COUNTY BRIDGE CR 204\DESIGN-CONSULTING\AUTOCAD\STRUCTURAL\WAKEFIELD BRIDGE- WHARTON COUNTY BRIDGE CR

1. THE INTERNATIONAL BUILDING CODE, 2021 EDITION.
2. AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS, 2010 EDITION.
3. ASCE-7-16, MINIMUM DESIGN LOADS FOR BUILDINGS & OTHER STRUCTURES.

1. DEAD LOAD = 118 PSF.
2. DECK LIVE LOAD = 75 PSF.
3. VEHICLE LOAD:
HL-93 LOADING PER AASHTO = 25,000 lbs MAX. AXLE
PLUS 640 lbs PER LANE

HORIZONTAL = 0.63 Kips
VERTICAL:
RIGHT & LEFT

DEAD-	18.21 Kips
DEAD+LIVE	52.74 Kips
DEAD+VEHICLE	74.14 Kips

1. STRUCTURAL STEEL SHALL MEET THE LATEST AASHTO (AMERICAN ASSOCIATION OF STATE HIGHWAY AND TRANSPORTATION OFFICIALS) SPECIFICATIONS FOR MATERIALS.
2. ALL STRUCTURAL STEEL TO MEET ASTM A 36 - fy = 36 KSI.
ALL TUBING TO MEET ASTM A 500, GRADE B - fy = 46 KSI.
ALL PIPES TO MEET ASTM A-53, GRADE B - fy = 35 KSI.
3. ALL BOLTS A 325 HIGH STRENGTH, WITH WASHERS AS REQUIRED
4. WELDING SHALL CONFORM TO THE STANDARDS SET FORTH IN AWS PUBLICATION, "WELDING IN BUILDING CONSTRUCTION".
5. ALL FIELD AND SHOP CONNECTIONS TO HAVE 3/16" FILLET WELDS MINIMUM UNLESS NOTED.
6. ALL FIELD WELDS TO BE WITH E70XX ELECTRODES.
7. NO OPENINGS TO BE PLACED IN BEAM WEBS OR FLANGES WITHOUT ENGINEER'S APPROVAL.

A. ALL FILL (IF REQUIRED) SHALL HAVE A MAXIMUM PLASTICITY INDEX (PI) OF 20 OR LESS. THE MINIMUM PLASTICITY INDEX (PI) SHALL BE 5 OR GREATER. ALL FILL SHALL PLACED IN A MAXIMUM LIFT THICKNESS OF SIX INCHES. EACH LIFT SHALL BE COMPACTED TO 95% OF STANDARD PROCTOR DENSITY (ASTM D-698) AT A MOISTURE CONTENT OF -1% TO +3% AND SHALL BE FIELD TESTED IN ACCORDANCE WITH ASTM D-2922.



DATE: 06/25/2025

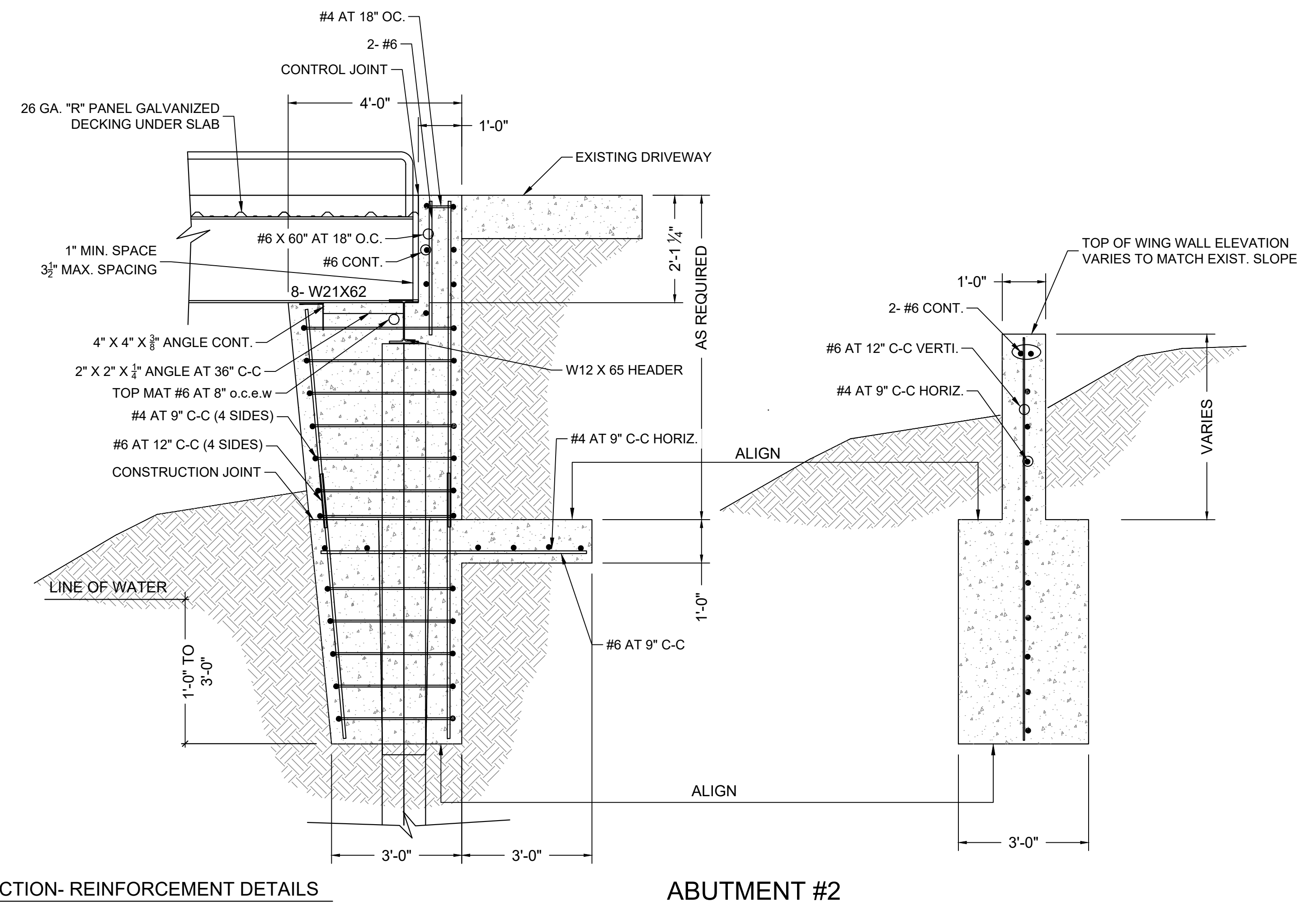
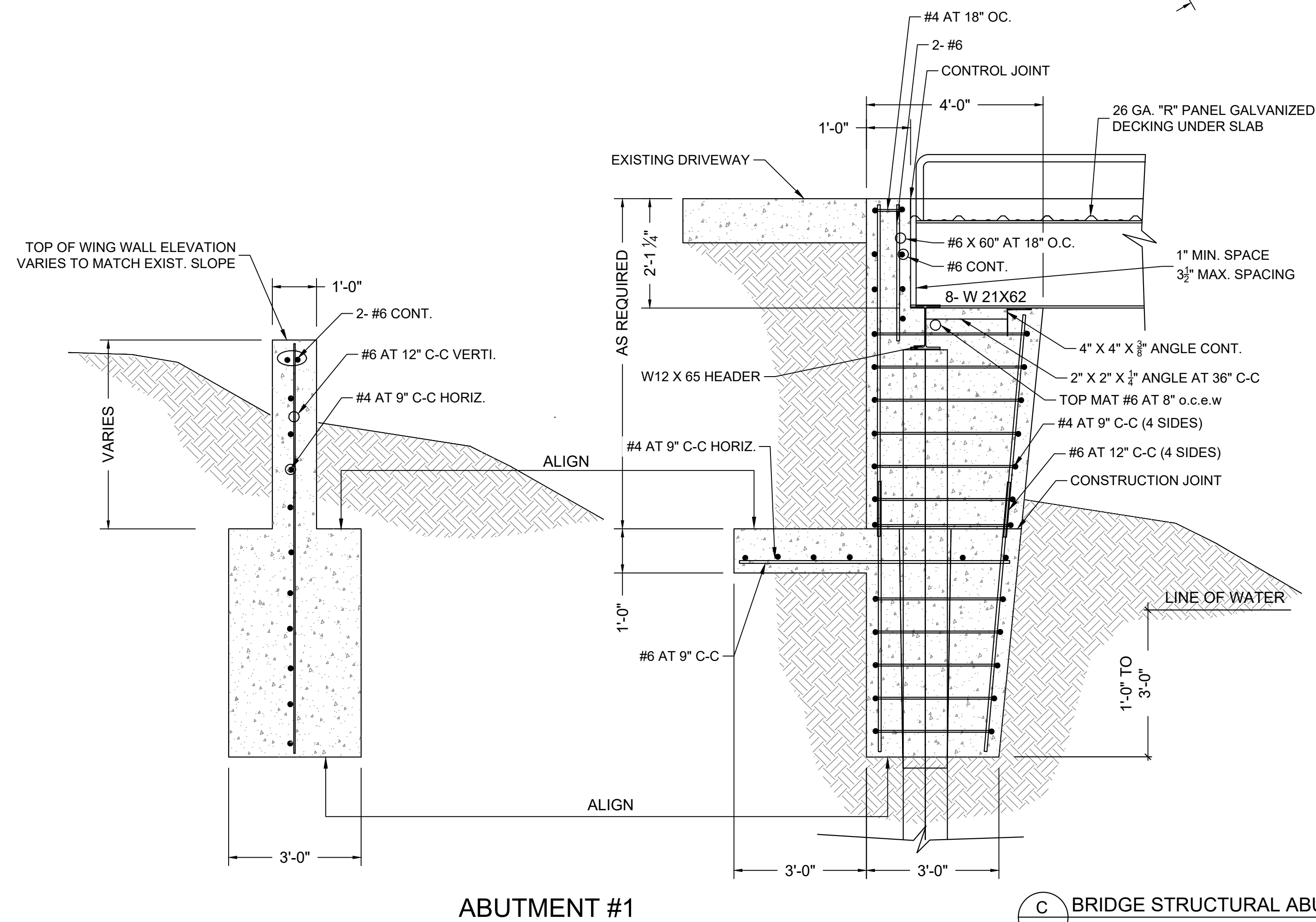
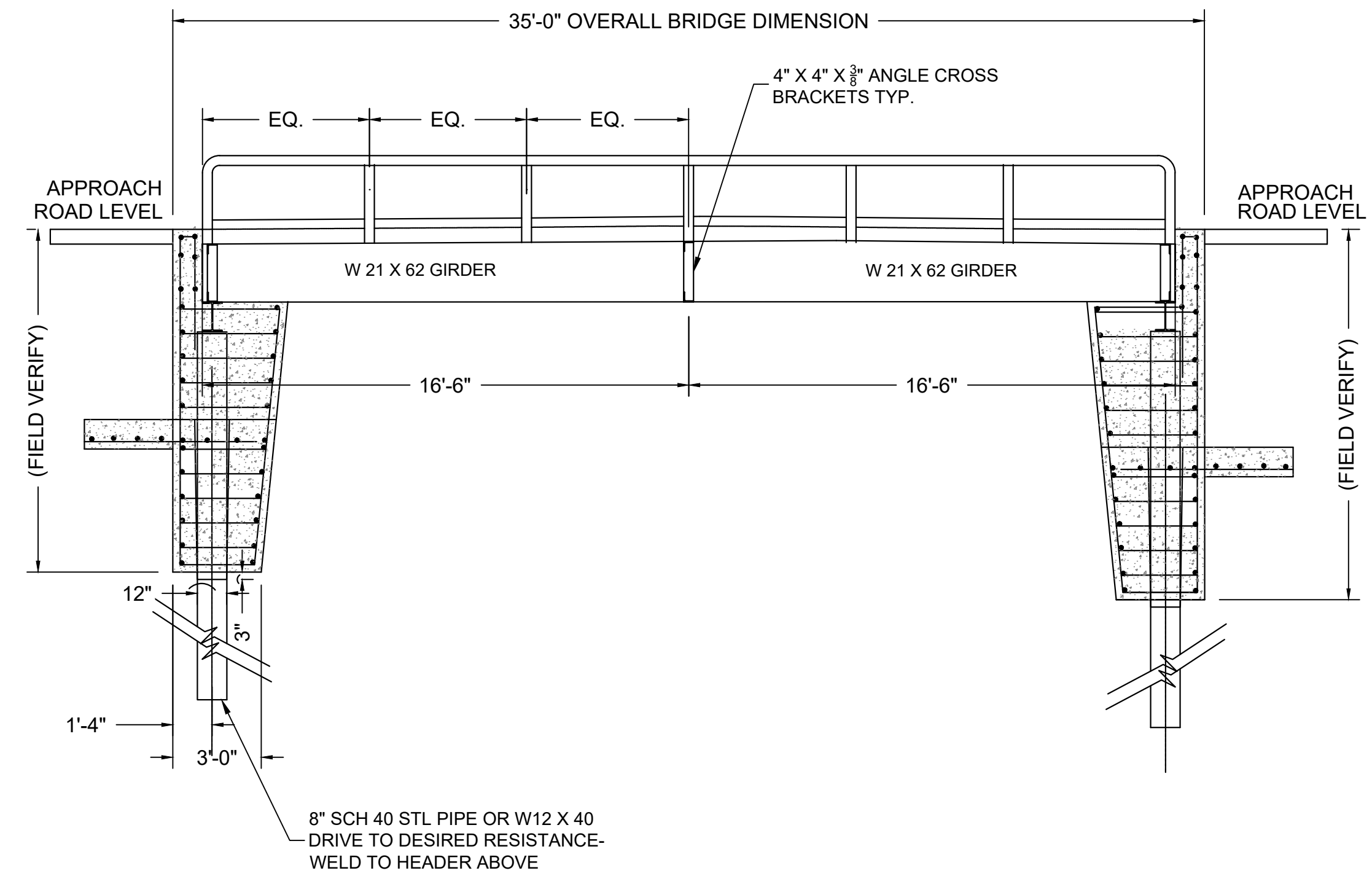
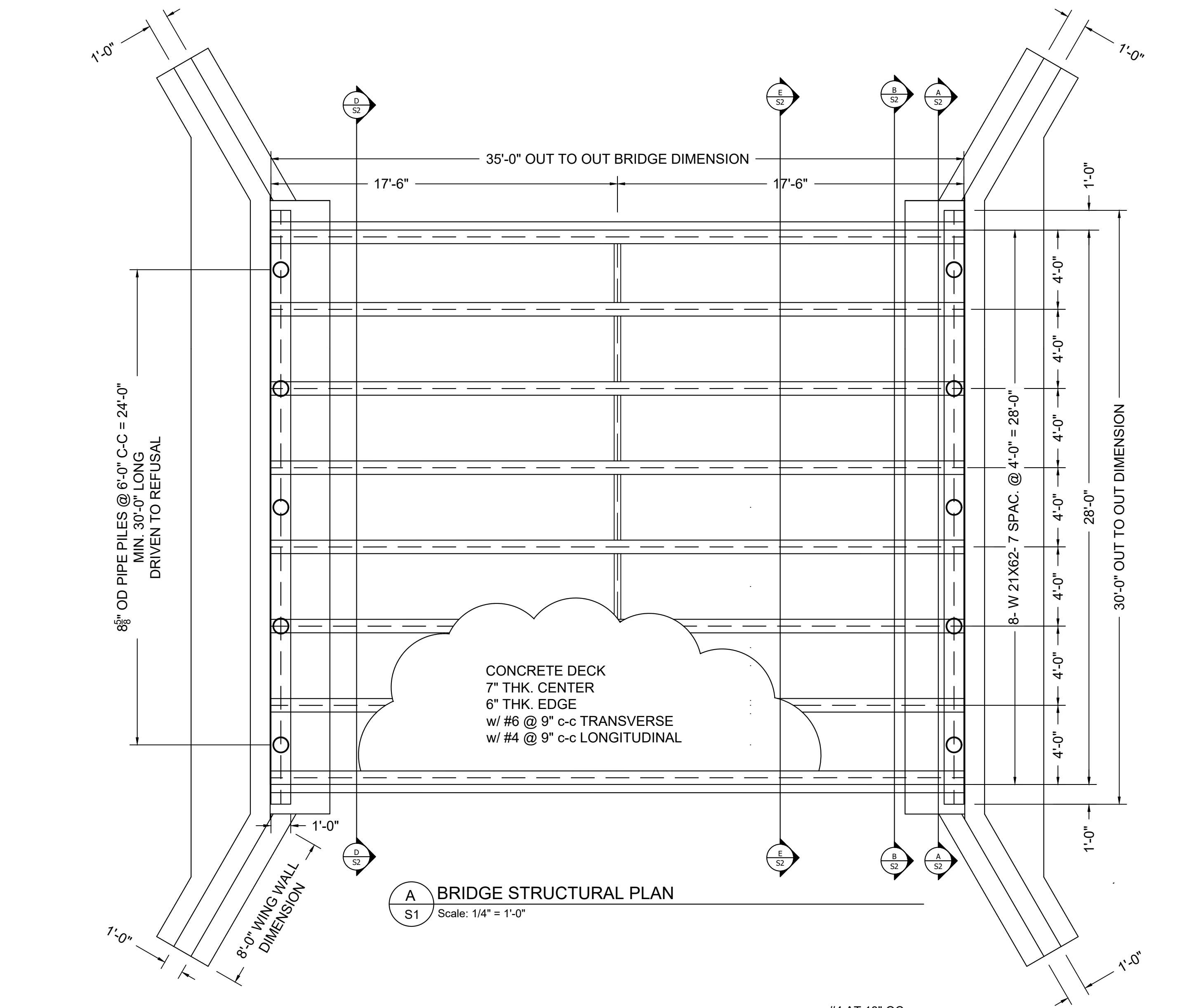
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MALEK, P.E. 82860

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WHARTON, TX

DRAWING NO.:



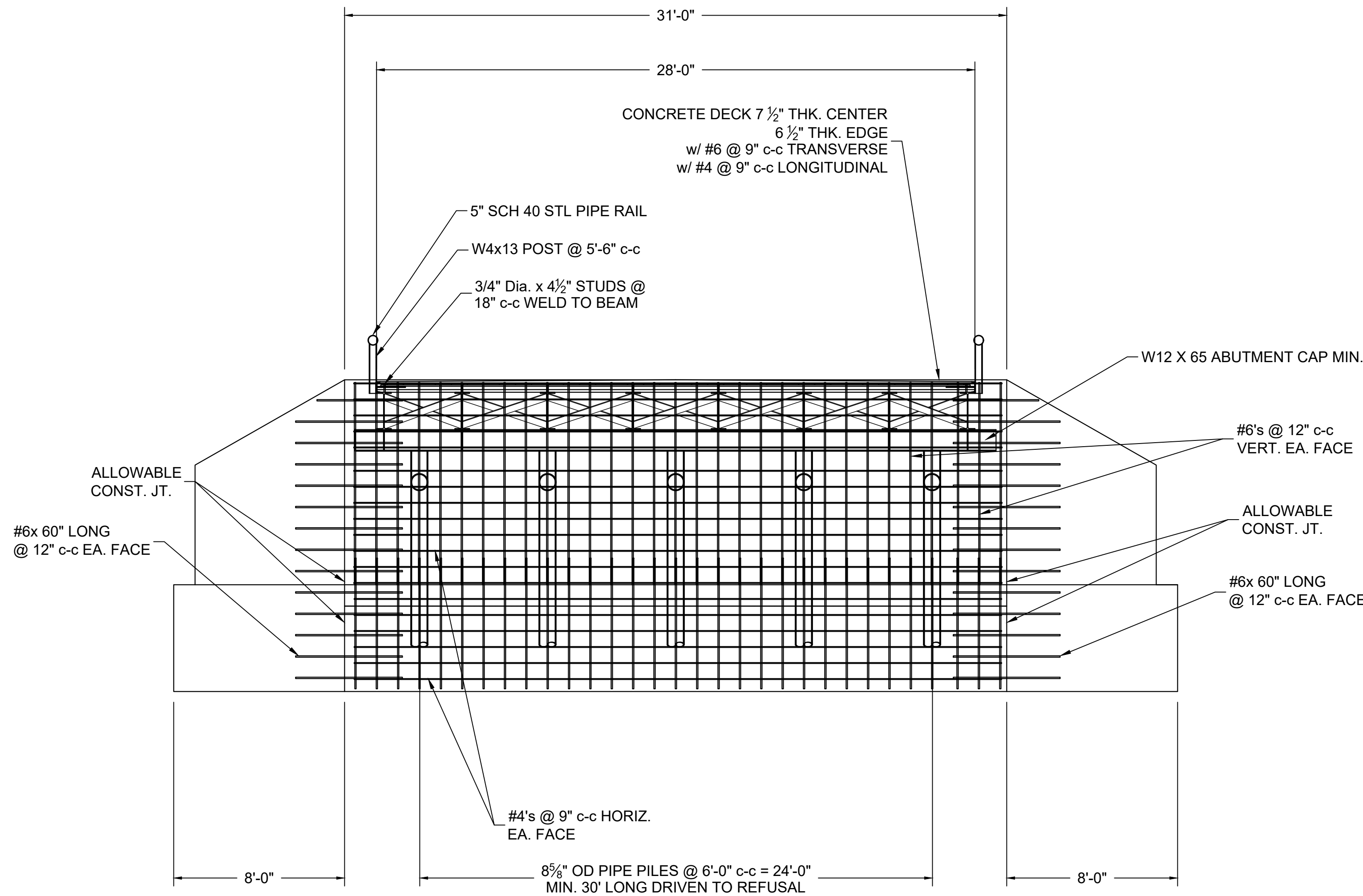
BY	
DATE	
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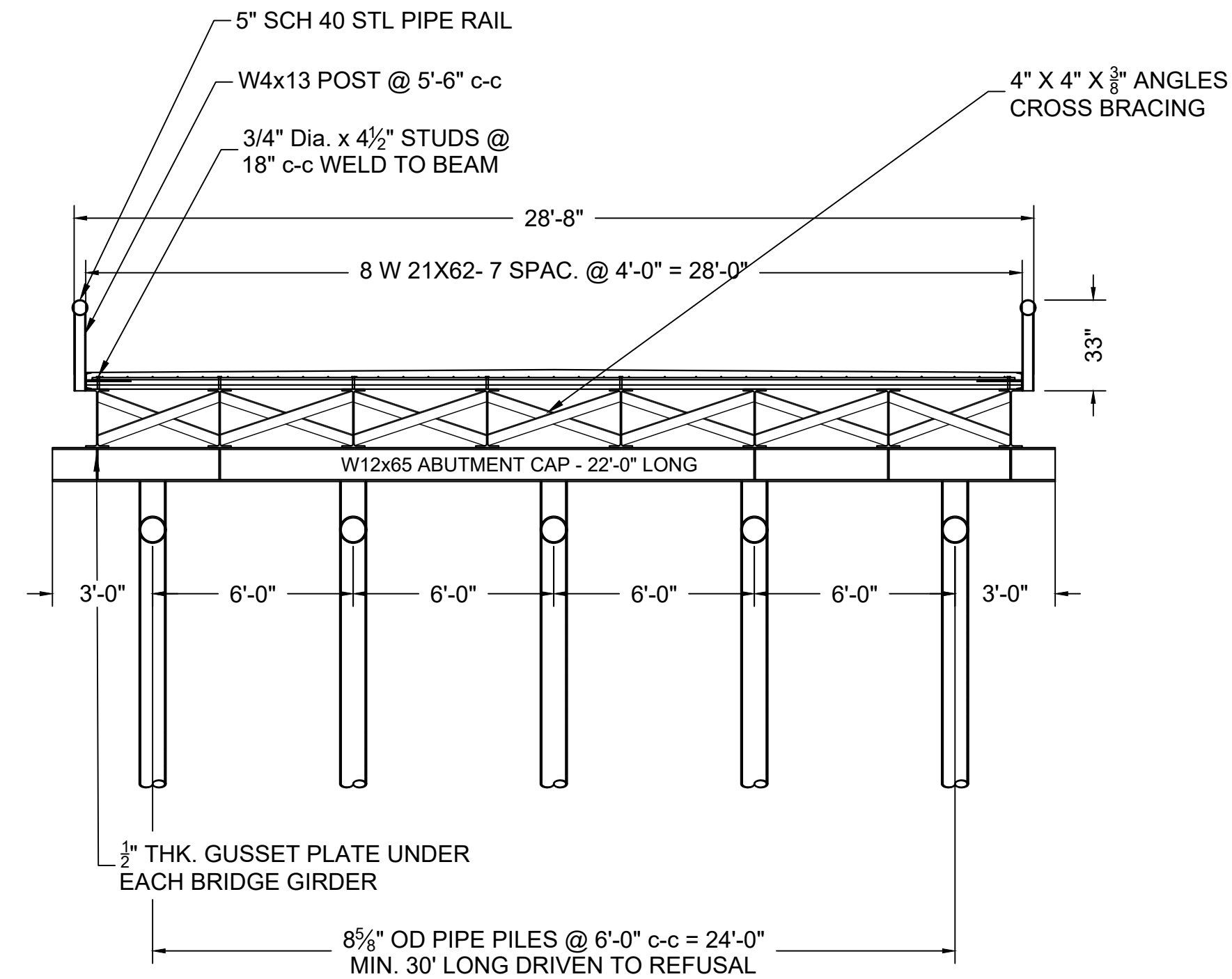
MB
MANAGEMENT
 DESIGN-BUILD | ENGINEERING | GENERAL CONTRACTING

FIRM NAME: **WHARTON COUNTY BRIDGE - 35 FT X 28 FT BRATCHER SLOUG CREEK, COUNTY ROAD 204**
 PROJECT NAME: **WHARTON COUNTY BRIDGE - 35 FT X 28 FT BRATCHER SLOUG CREEK, COUNTY ROAD 204**
 DRAFTED BY: **SAB** DESIGNED BY: **PEM**
 SCALE: **AS SHOWN**
 DRAWING TITLE: **BRIDGE FOUNDATION PLAN**
 DRAWING NO.: **S1**

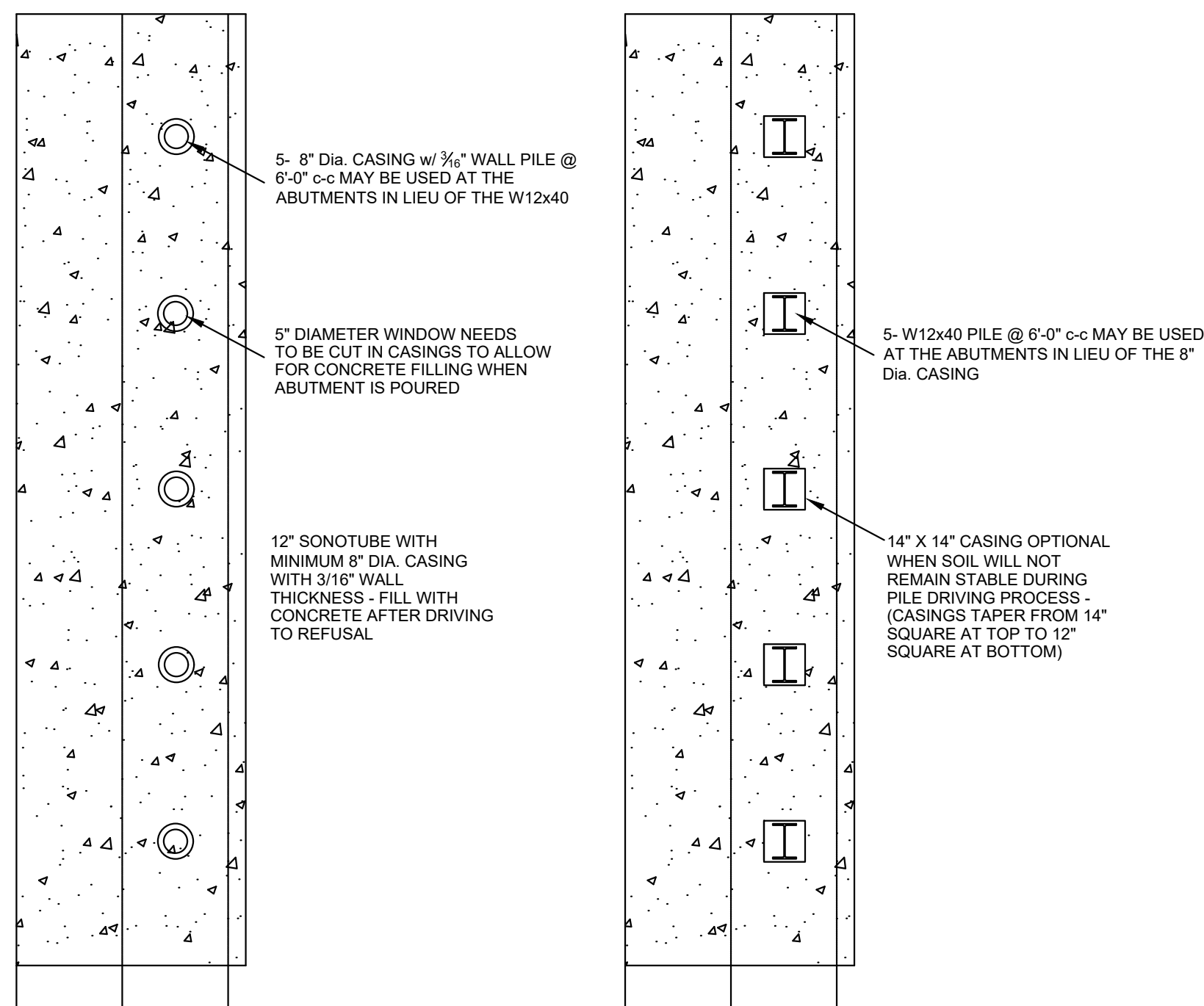
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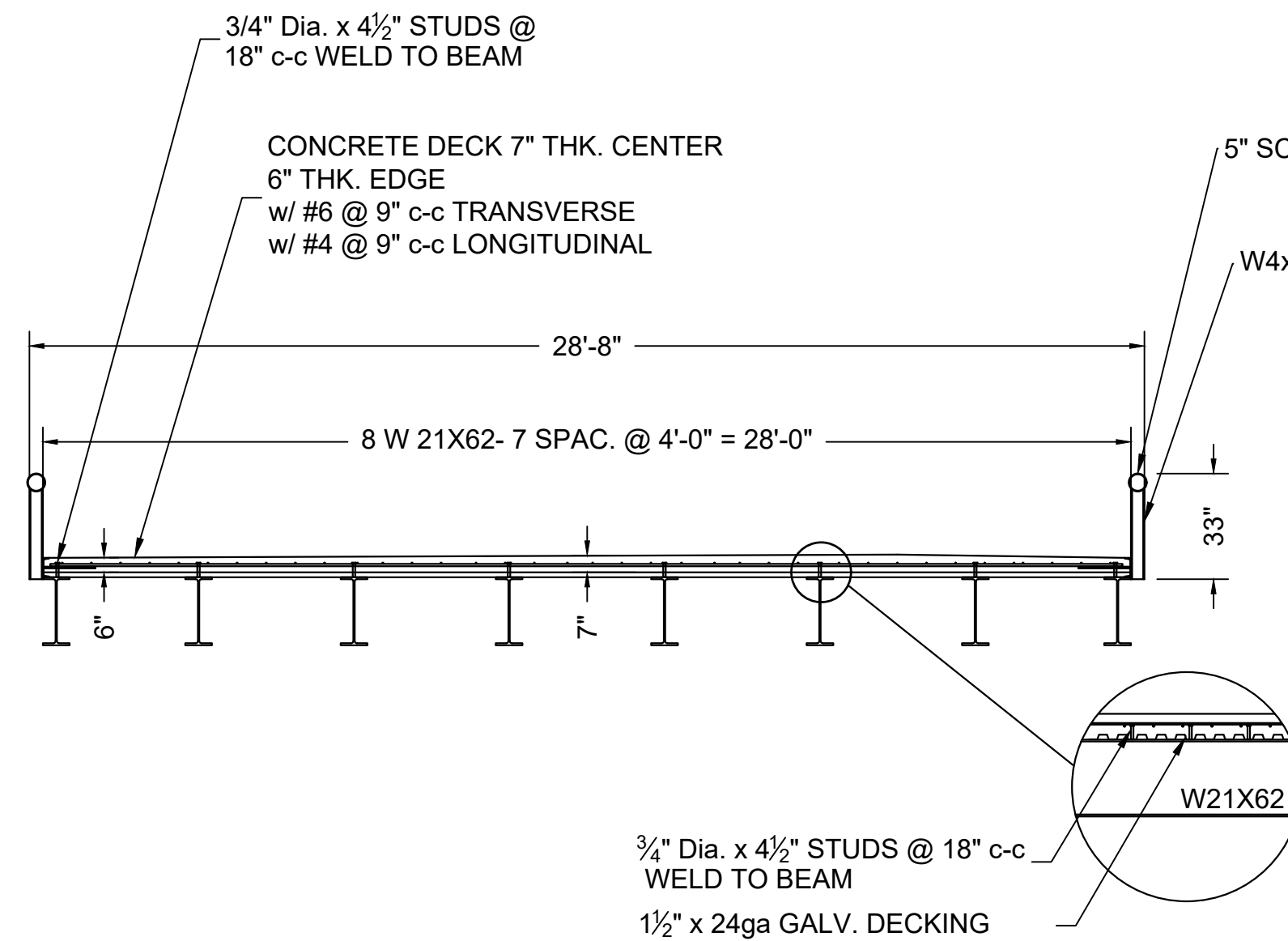
A BRIDGE ABUTMENT SECTION- REINFORCEMENT DETAILS
S2 Scale: 1/4" = 1'-0"



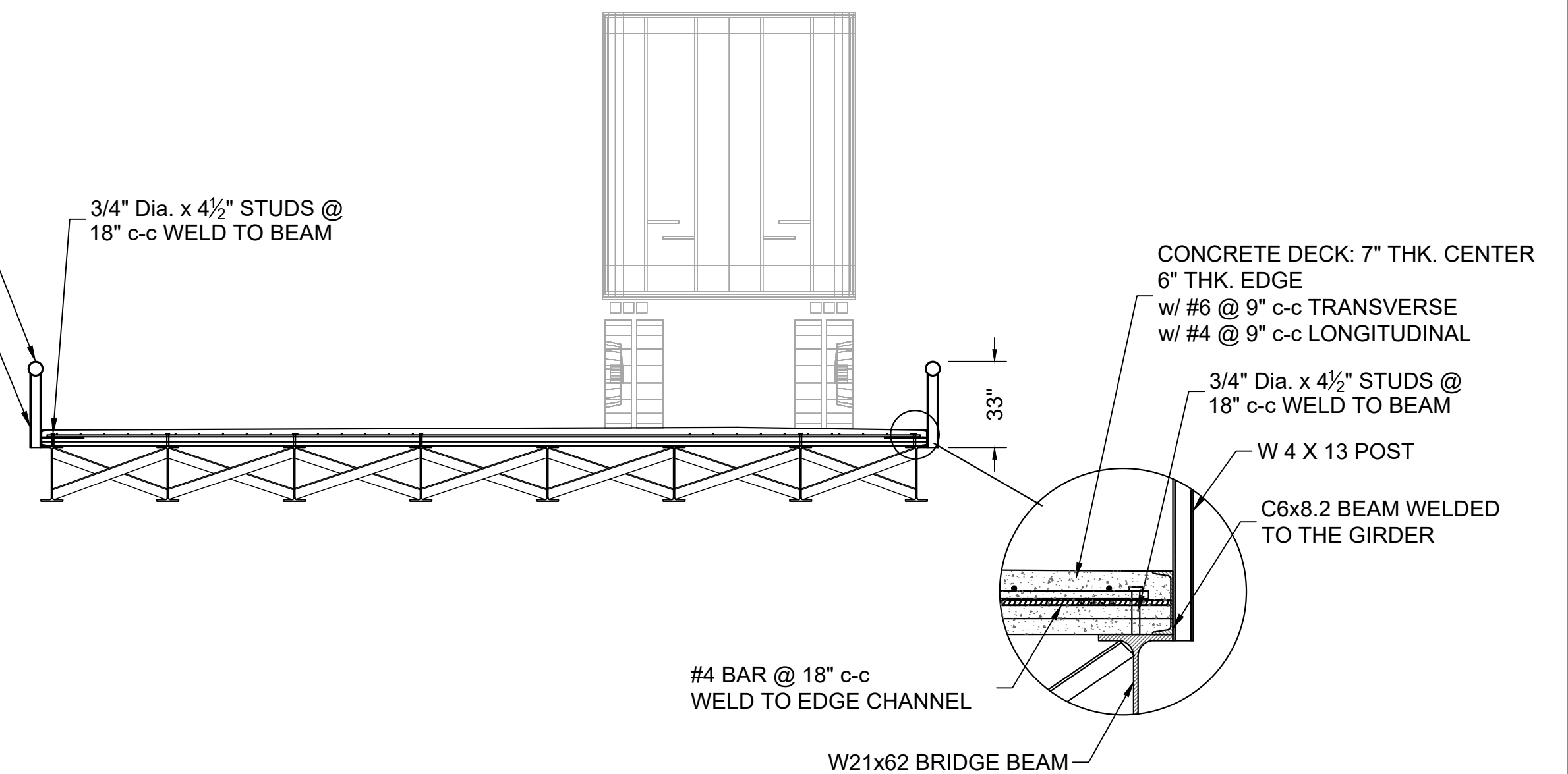
B BRIDGE STEEL FRAMING SECTION B-B
S2 Scale: 1/4" = 1'-0"



C BRIDGE STEEL PILE DETAILS TYP.
S2 Scale: NTS

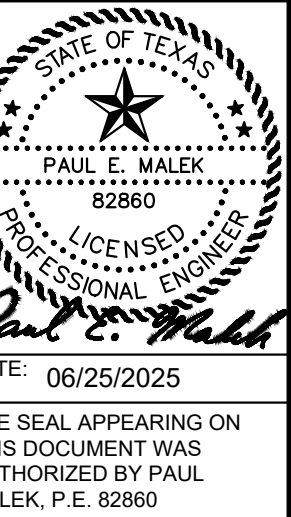


D BRIDGE STEEL FRAMING SECTION D-D
S2 Scale: 1/4" = 1'-0"



E BRIDGE STEEL FRAMING SECTION E-E
S2 Scale: 1/4" = 1'-0"

NO.	REVISION DESCRIPTION	DATE	BY



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DRAFTED BY: SAB
DESIGNED BY: PEM
SCALE: AS SHOWN
DRAWING TITLE: BRIDGE STRUCTURAL FRAMING SECTIONS
DRAWING NO.: **S2**

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