

**DESIGN SPECIFICATIONS:**

1. FABRICATION AND WORKMANSHIP SHALL CONFORM TO: STANDARD SPECIFICATIONS STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION.
2. ANSI / AASHTO / AWS "BRIDGE WELDING CODE, CURRENT EDITION" D1.5:2015.
3. CALTRANS AND NV5 CONTRACT PLANS, PROPOSAL AND ADDENDUMS.
4. AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS.

**CONSTRUCTION SPECIFICATIONS:**

1. MATERIAL AND CONSTRUCTION SHALL CONFORM WITH STANDARD SPECIFICATIONS STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION, WITH ANSI / AASHTO / AWS "BRIDGE WELDING CODE CURRENT EDITION" D1.5:2015 AND WITH STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION AND NV5 CONTRACT PLANS, PROPOSAL AND ADDENDUMS.
2. U-BEAMS ARE MANUFACTURED PER PRESS BRAKE FORMED TUB GIRDER METHOD.
3. TOLERANCES ARE PER STANDARD SPECIFICATIONS STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION SECTION 55.

**LOADS:**

1. THE DESIGN OF THIS STRUCTURE IS BASED ON AASHTO LRFD BRIDGE DESIGN SPEC. HL-93 LOADING. LIVE LOAD PLUS DYNAMIC LOAD ALLOWANCE DEFLECTION DOES NOT EXCEED 1/800 OF SPAN LENGTH. THE LOAD AND RESISTANCE FACTOR METHOD OF DESIGN WAS USED FOR THIS STRUCTURE.

**MATERIALS:**

1. ALL STRUCTURAL STEEL SHALL CONFORM TO ASTM A709 GRADE 50 AND ASTM A709 GRADE 36 AS NOTED.
2. STRUCTURAL STEEL NOTED "CVN" INDICATES MATERIAL WHICH IS TO BE SUBJECT TO CHARPY V-NOTCH TESTING ZONE 2 (15ft-lbf @ 40°F). CVN SAMPLING AND TESTING MUST BE PERFORMED IN ACCORDANCE WITH STANDARD SPECIFICATIONS STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION SECTION 55-1.01D(3)(b)(ii).
3. ALL BOLTS TO BE HEAVY HEX ASTM F3125 / F3125M, GRADE A325 TYPE 1 GALVANIZED. ALL HEAVY HEX NUTS TO BE ASTM A563, GRADE DH, OR AASHTO M 292 GRADE 2H. ALL HARDENED FLAT WASHERS TO BE ASTM F436. ALL HARDWARE SHALL BE GALVANIZED IN ACCORDANCE WITH ASTM A153. GALVANIZED NUTS SHALL BE TAPPED OVERSIZE PER THE REQUIREMENTS OF ASTM A563 AND LUBRICATED PER S1 AND S2, LUBRICANT DYE.
4. ALL HIGH STRENGTH BOLTS SHALL BE ROTATIONAL CAPACITY TESTED PRIOR TO USE. DO NOT MIX NUTS AND BOLTS FROM DIFFERENT LOTS.
5. ALL SHEAR STUDS SHALL CONFORM AASHTO M169, ASTM A109, Fy = 50 KSI.
6. HATCH COVER PLATE TO BE ASTM A709 GRADE 36 AND SHALL BE GALVANIZED IN ACCORDANCE WITH ASTM A153.
7. BEARING PAD ELASTOMER HARDNESS TO BE 50 AND STEEL REINFORCING TO BE GRADE 36 IN ACCORDANCE WITH AASHTO M251.

**WELDING:**

1. ALL WELDING SHALL BE IN ACCORDANCE WITH ANSI / AASHTO / AWS "BRIDGE WELDING CODE, CURRENT EDITION" D1.5:2015.
2. ALL WELD INSPECTION TO BE IN ACCORDANCE WITH STANDARD SPECIFICATIONS STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION SECTION 11.
3. ASTM A709 GR50 GROOVE WELDS PER WPS# W-FC(SP)-BRIDGE-GROOVE-01
4. ASTM A 709 GR50 FILLET WELDS < 5/16IN – WPS # W-FC(SP)-BRIDGE-SP FILLETS-01
5. ASTM A709 GR50 FILLET WELDS > 5/16IN – WPS # W-FC(SP)-BRIDGE-MP FILLETS-01
6. STUD WELDS WPS# W-SM-BRIDGE-STUD-01 FOR ALL ASTM A709 GR50 MATERIAL.

**INSPECTION:**

1. NON-DESTRUCTIVE WELD INSPECTION SHALL BE IN ACCORDANCE WITH CHAPTER 6 OF THE ANSI /AASHTO / AWS "BRIDGE WELDING CODE, CURRENT EDITION" D1.5:2015 AND THE STANDARD SPECIFICATIONS STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION SECTION 11.
2. "VT" INDICATES VISUAL INSPECTION. VT ON 100% OF WELDS.
3. "MT" INDICATES MAG-PARTICLE INSPECTION. MT PRIMARY MEMBER FILLET WELDS: 100% FOR ≤ 10", 10% FOR > 10".
4. "RT" INDICATES RADIOGRAPHIC INSPECTION. RT PRIMARY MEMBER WEB & FLANGE SPLICES. WELDS ON FASCIA BEAMS SHALL ONLY BE GROUND ON THE INSIDE (NON FASCIA SIDE) FOR TESTING.
5. "PT" INDICATES DYE-PENETRANT INSPECTION. PT PRIMARY MEMBER WEB AND FLANGE SPLICE TERMINATIONS.

**CAMBER:**

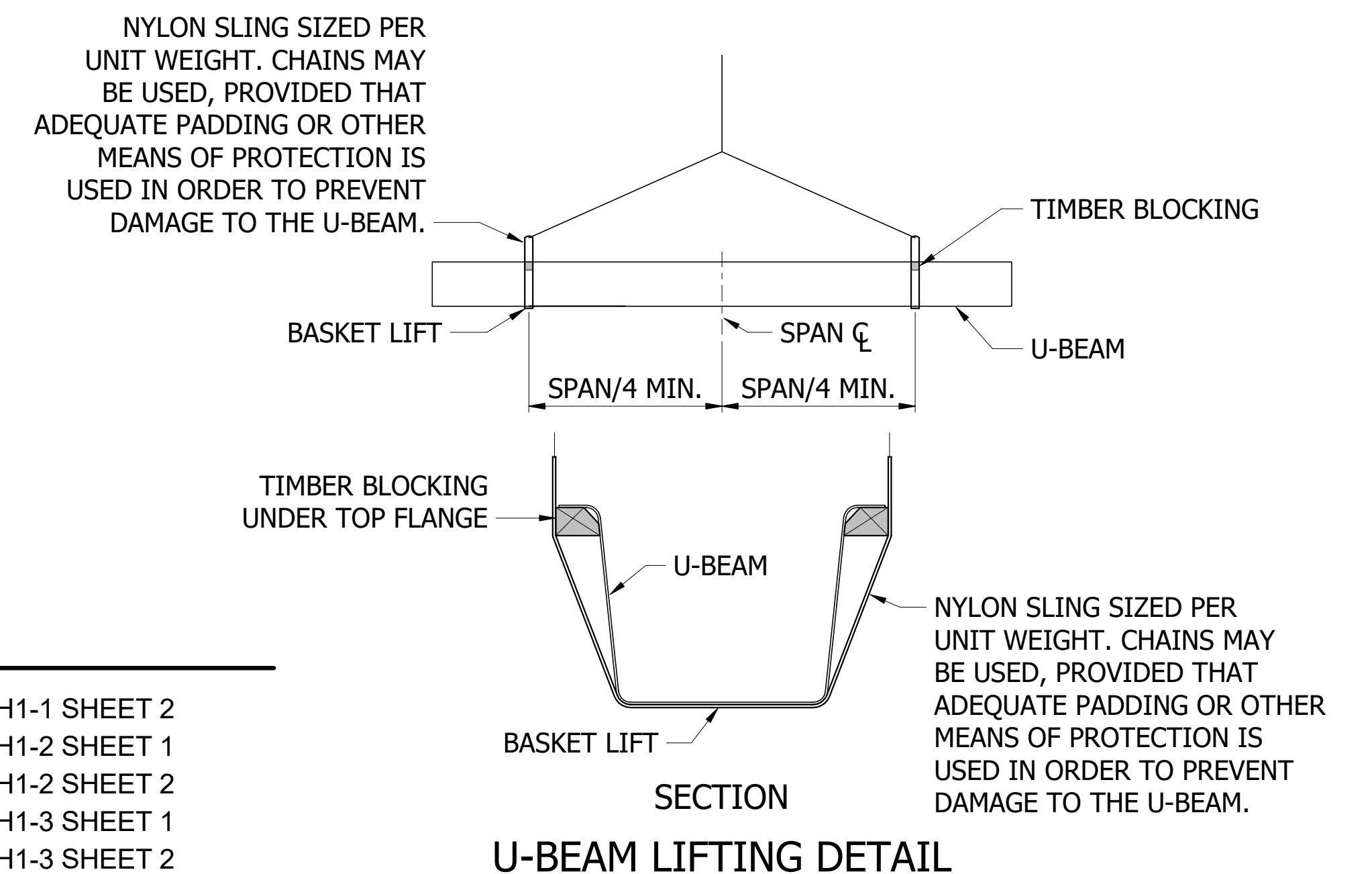
1. FABRICATION AND WORKMANSHIP SHALL CONFORM TO: STANDARD SPECIFICATIONS STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION.
2. THE NEW BEAM SHALL HAVE A PARABOLIC CAMBER WITH ORDINATES AS SHOWN ON THE CAMBER DIAGRAM.
3. THE CAMBER SHOWN IS TO BE MEASURED WITH THE BEAM LYING ON ITS SIDE.
4. CAMBER SHALL BE PROVIDED BY MECHANICAL COLD ROLLING PROCESS.

**CLEANING AND COATING:**

1. ALL STRUCTURAL STEEL SHALL BE HOT-DIP GALVANIZED ACCORDING TO STANDARD SPECIFICATIONS STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION SECTION 75-1.02B.(AASHTO M111M / M111, ASTM A123).
2. REMOVE WELD SPATTER BY GRINDING BEFORE GALVANIZING.
3. PREPARE STEEL COMPONENTS FOR GALVANIZING IN ACCORDANCE WITH SSPC-SP 8.
4. ALL STRUCTURAL STEEL MEMBERS (UNLESS NOTED ON THE DETAIL DRAWINGS) SHALL BE HOT DIP GALVANIZED PER AASHTO M111M / M111, ASTM A123 INCLUDING ALL FAYING SURFACES INTERNAL TO SLIP CRITICAL CONNECTIONS.
5. HOT-DIP GALVANIZED COATING MUST MEET THE MINIMUM AVERAGE COATING THICKNESS OF 3.9 MILS IN ACCORDANCE WITH AASHTO M111.
6. GALVANIZING REPAIRS ARE PER STANDARD SPECIFICATIONS STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION SECTION 75-1.02B.

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9	B1-1 SHEET 1	18	C1-2 SHEET 2	27	E1-1 SHEET 1	36	F1-2 SHEET 2	45	H1-1 SHEET 1		



1	04.06.22	04.06.22	
REV	DRAWN BY-DATE	CHECK BY-DATE	DESCRIPTION

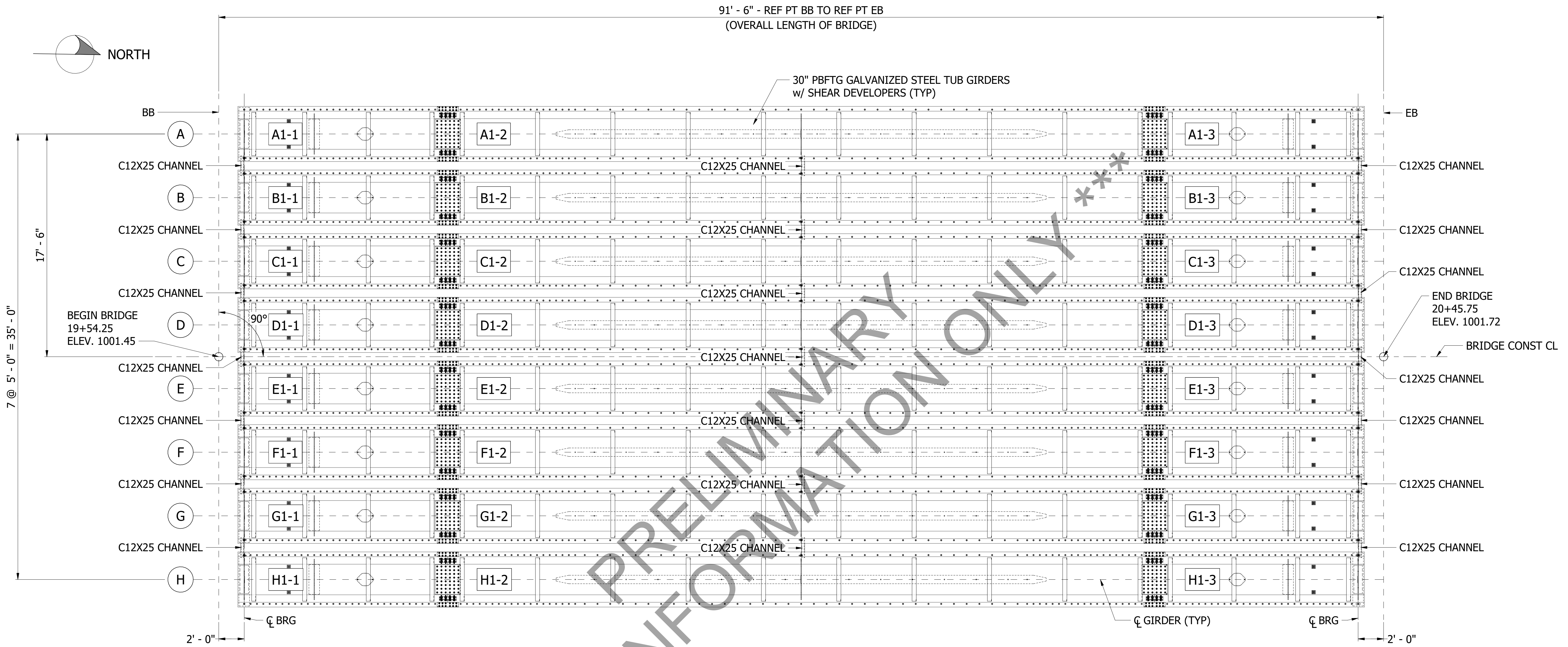
SOLD TO :	
SHIPPED TO :	
CONTRACTOR :	
BUILD FACILITY :	

JOB	IMPERIAL CO., CA. DOGWOOD ROAD OVER CENTRAL MAIN CANAL BRIDGE NO: 58C-0226 / COUNTY PROJECT 6222
TITLE	COVER SHEET

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**FRAMING PLAN**

HARDWARE SCHEDULE		
PART	DESCRIPTION	QTY PER ASSY
3/4" BOLT	3/4" x 2 3/4" BOLT (A325 - GALV)	2048
3/4" CONNECTION BOLT	3/4" x 2 3/4" BOLT (A325 - GALV)	126
3/4" CONNECTION NUT	3/4" HEAVY NUT (A563 - GALV)	126
3/4" CONNECTION WASHER	3/4" WASHER (F436 - GALV)	252
3/4" NUT	3/4" HEAVY NUT (A563 - GALV)	2048
3/4" WASHER	3/4" WASHER (F436 - GALV)	4096
BOTTOM SPLICE PLATE	PL 3/8" x 2'-0" x 2'-4" w/(48) 7/8"Ø HOLES	32
CHANNEL	C12x25 x (1' - 6 3/4")	21
INSPECTION HATCH	HATCH COVER ASSEMBLY KIT	16
MESH SCREEN	WIRE MESH SCREEN - 20GA GALV.	32
SIDE SPLICE PLATE	PL 3/8" x 1'-4" x 2'-1 3/4" w/(28) 7/8"Ø HOLES	64
TOP SPLICE PLATE	PL 3/8" x 4 1/2" x 1'-8" w/(12) 7/8"Ø HOLES	64

NOTE: HATCH COVER ASSEMBLY KIT INCLUDES;  
 (1) HATCH COVER PLATE,  
 (1) 3/8" x 1" STAINLESS STEEL BOLT,  
 (1) 3/8" STAINLESS STEEL NUT,  
 (3) 3/8" STAINLESS STEEL WASHER,  
 (1) 3/8" x 1 1/2" S.S. SOCKET HEAD BOLT,  
 (1) 3/8" STAINLESS STEEL LOCK WASHER.

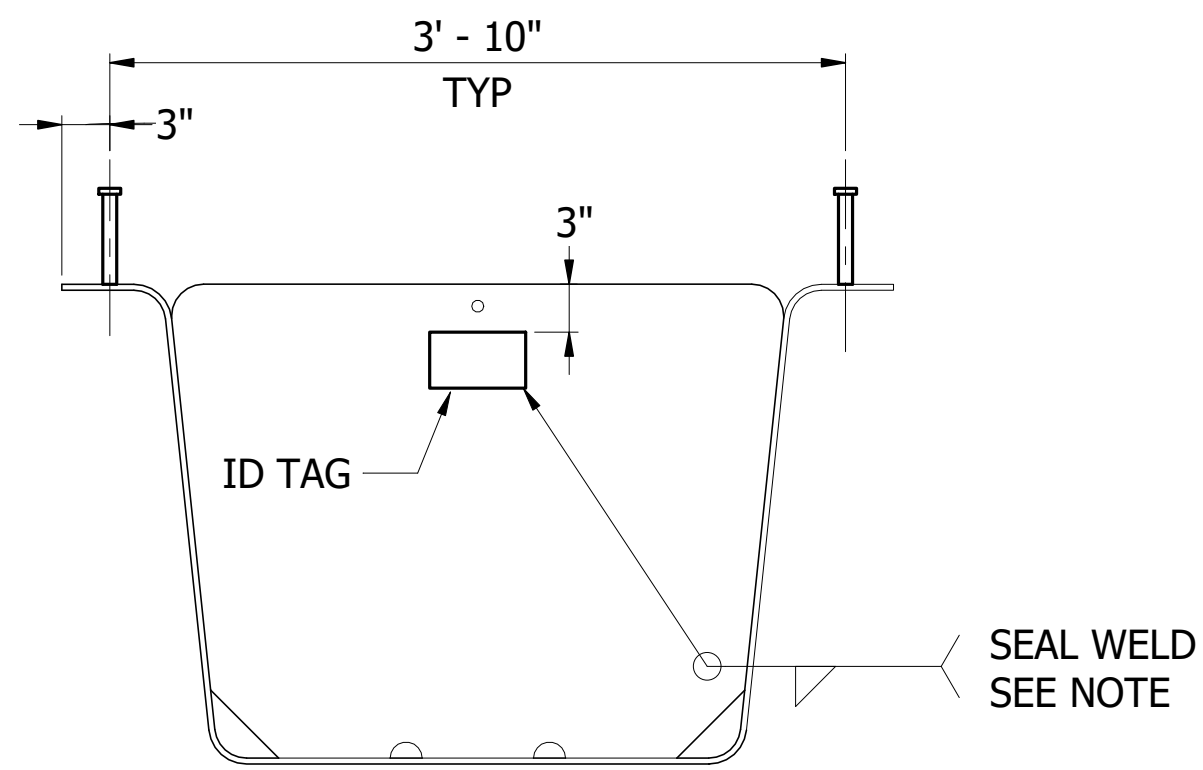
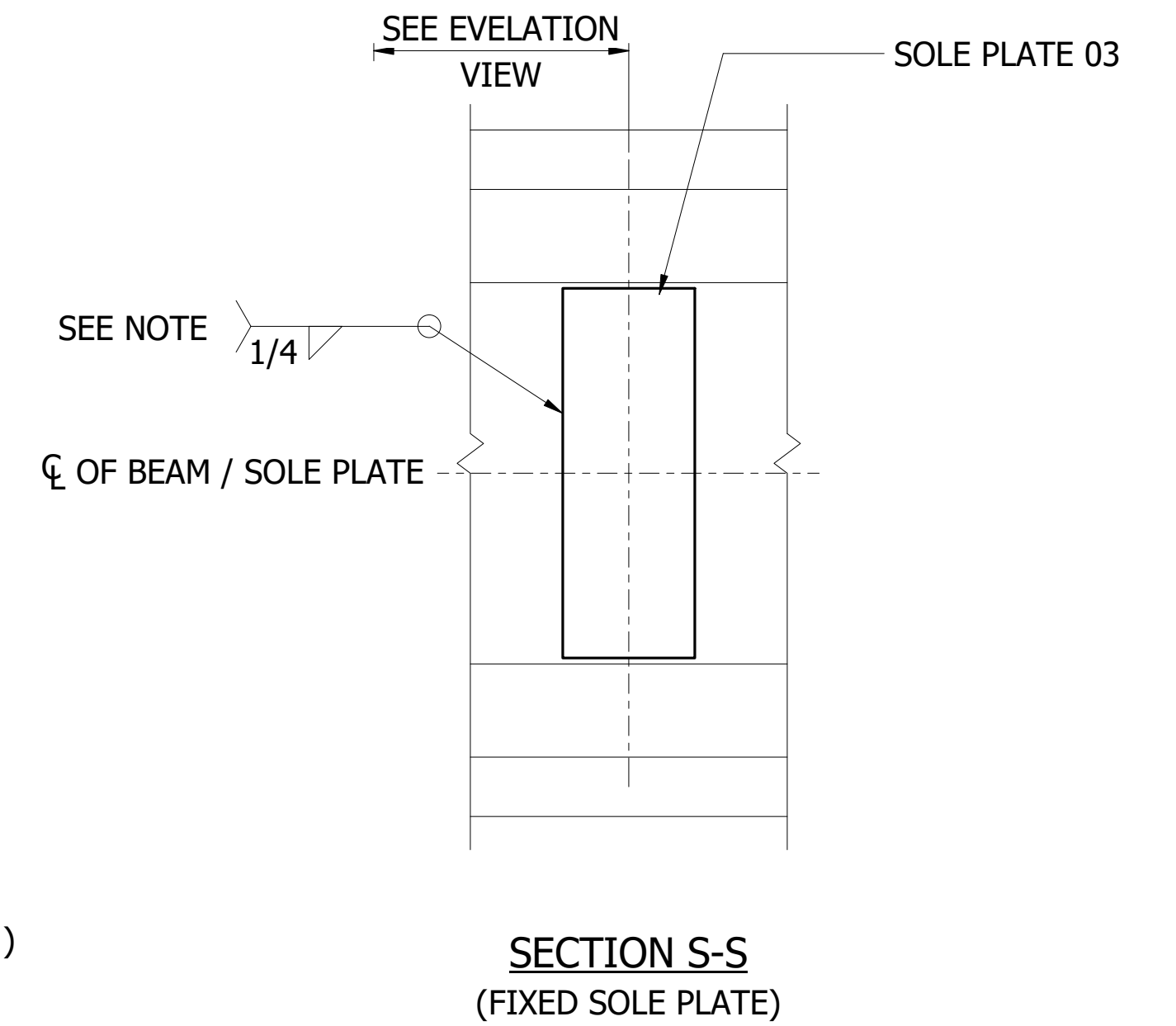
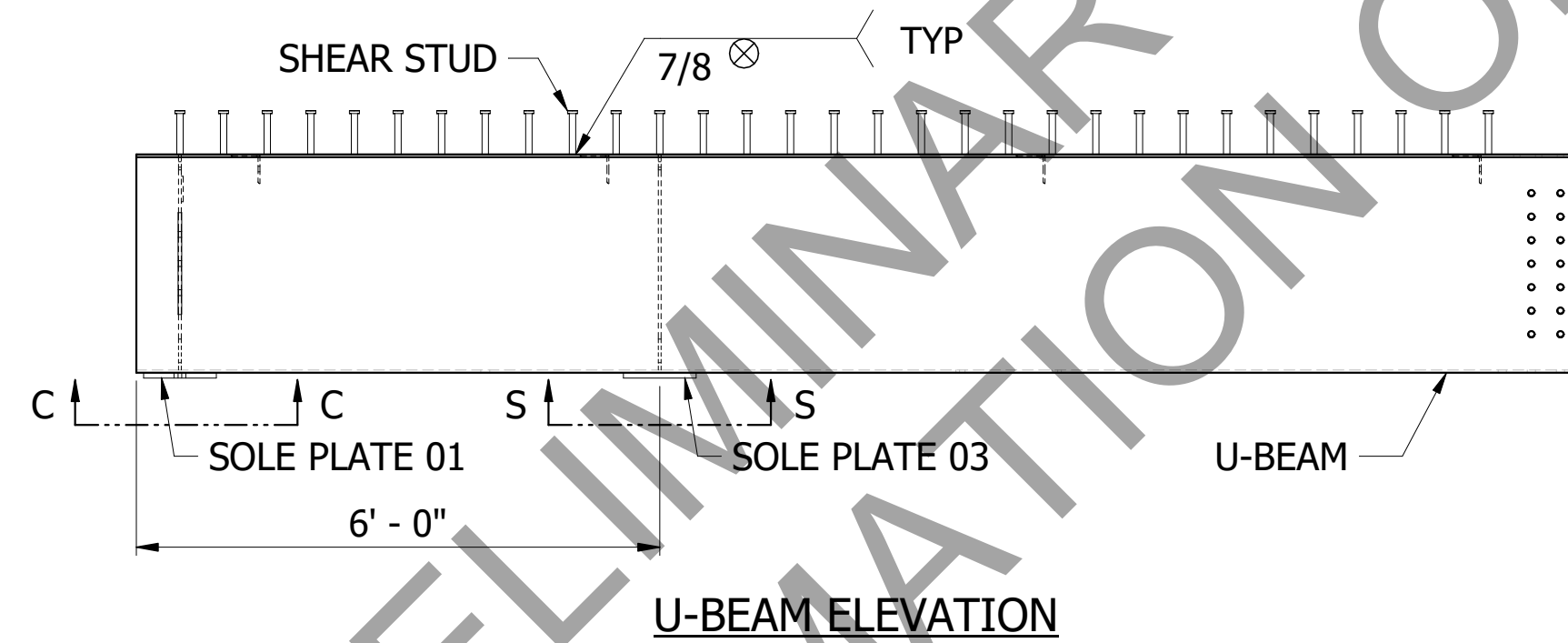
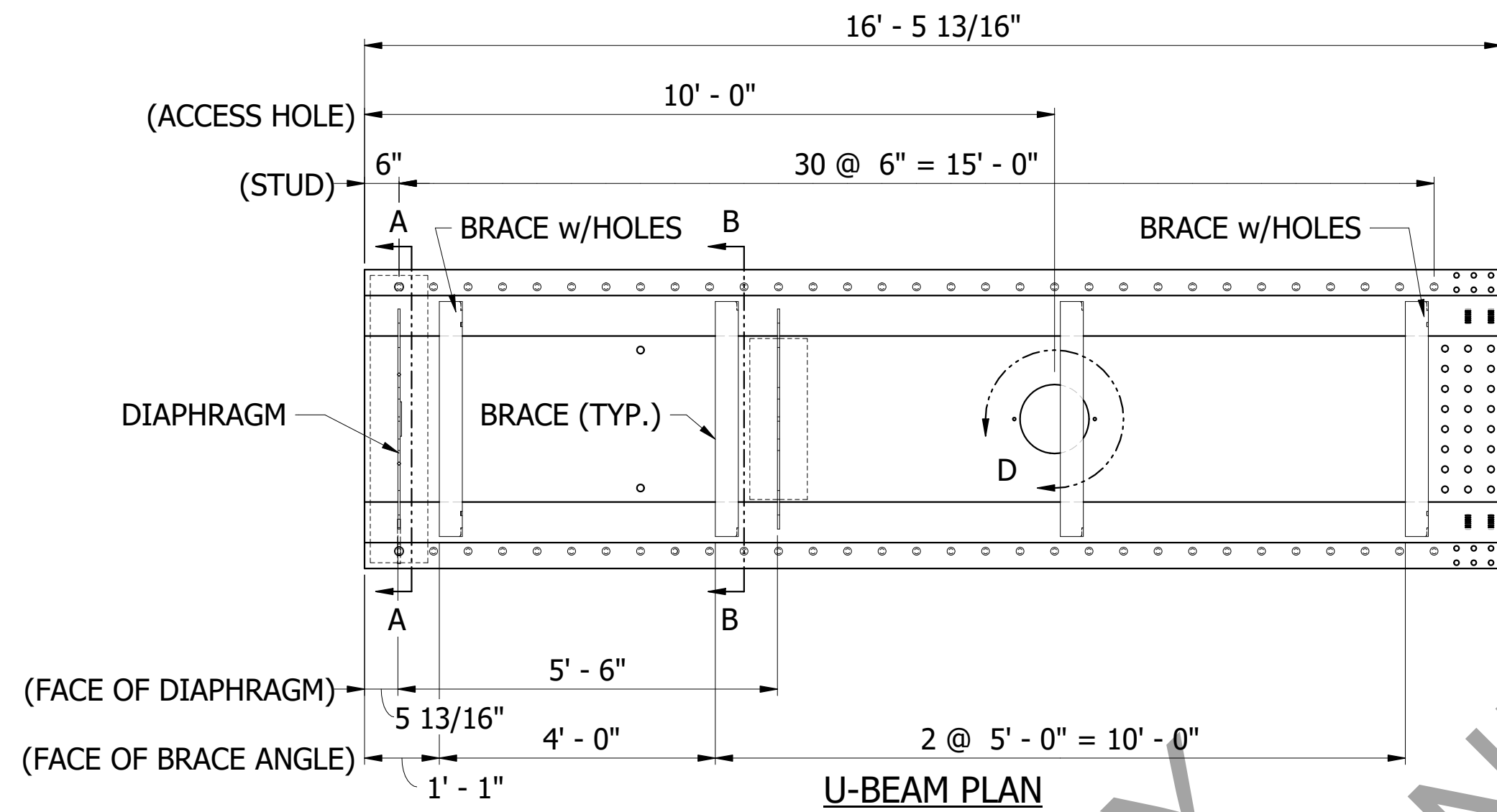
JOB IMPERIAL CO., CA.  
 DOGWOOD ROAD OVER CENTRAL MAIN CANAL  
 BRIDGE NO: 58C-0226 / COUNTY PROJECT 6222

TITLE LAYOUT PLAN

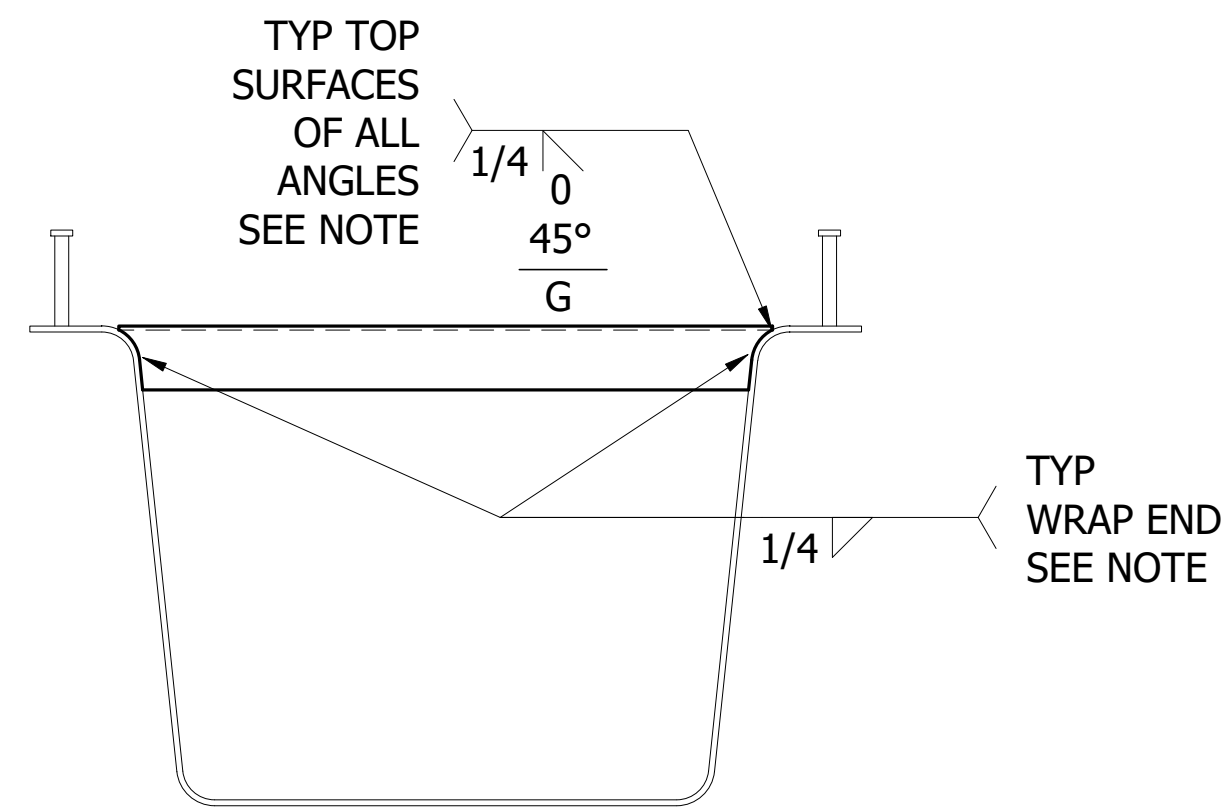
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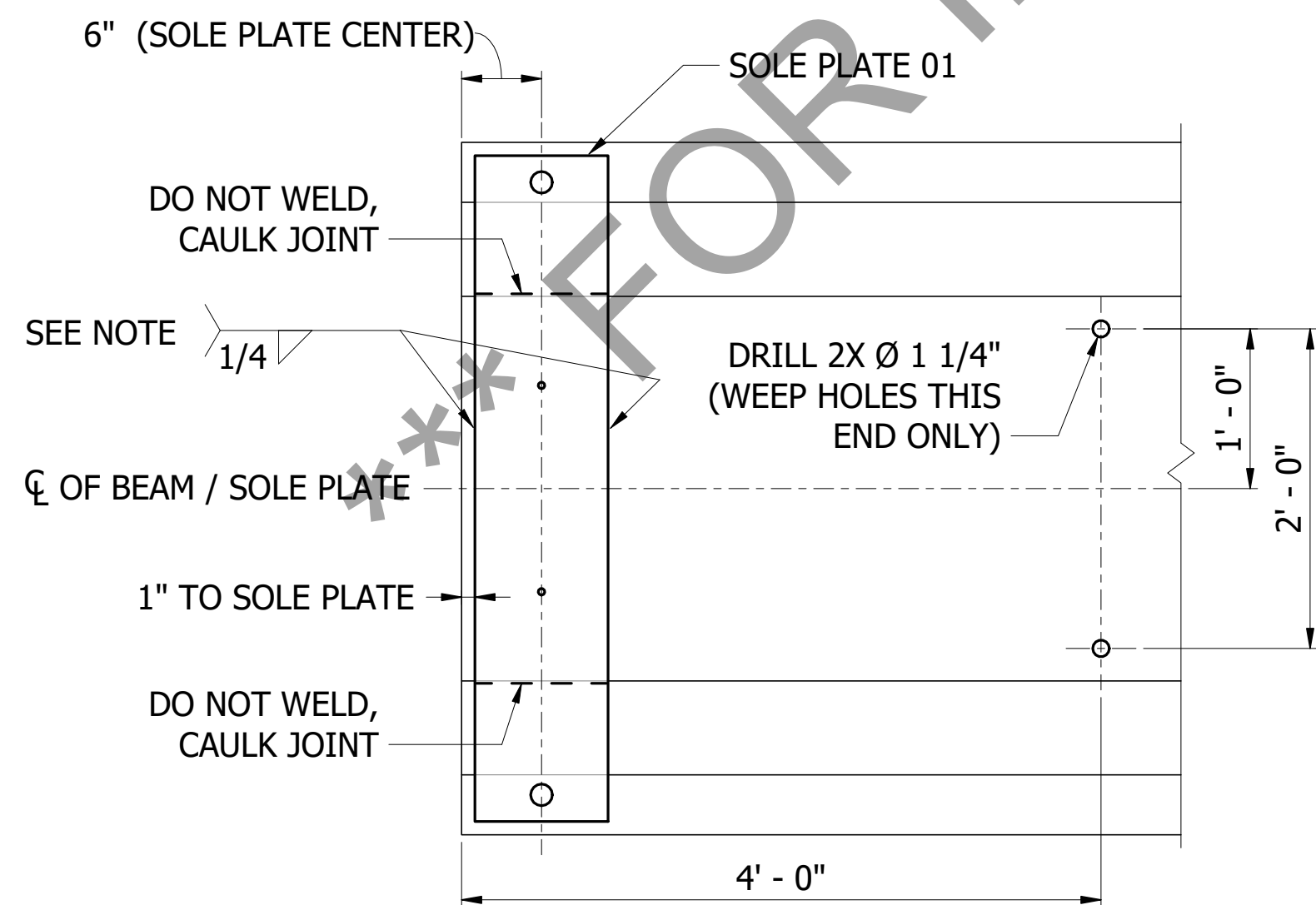
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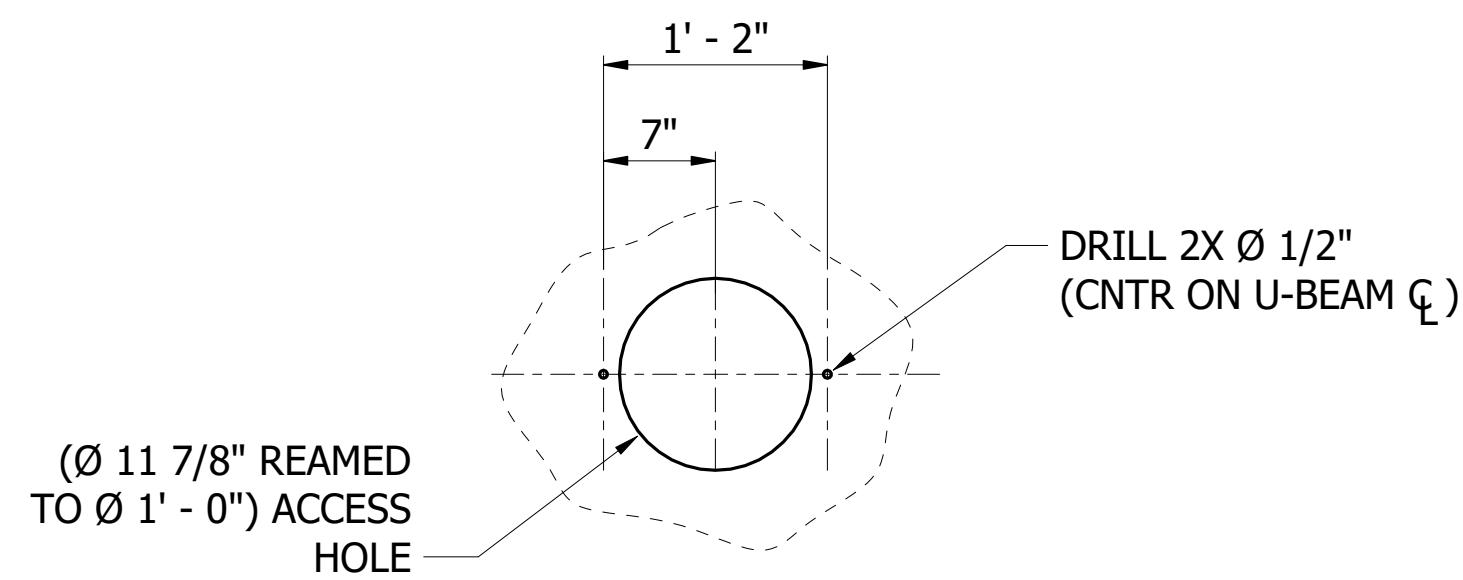
**SECTION A-A**  
(CONNECTION PLATES ARE NOT SHOWN FOR CLARITY.)



**SECTION B-B**



**SECTION C-C**  
(FIXED SOLE PLATE)



**DETAIL D**

WELD NOTE:  
- SEE WELDING SECTION ON COVER SHEET FOR WELDING SPECIFICATIONS.

NOTE:  
- REFERENCE FRAMING PLAN DRAWING FOR OVERALL GIRDER ASSEMBLY.

LABEL	DESCRIPTION	QTY PER ASSY
U-BEAM	U30 x 16' - 5 13/16" GIRDER	1
BRACE	L4x4x1/4 x 3'-4 7/8"	2
BRACE w/HOLES	L4x4x1/4 x 3'-4 7/8" w/(2) 3/4"Ø HOLES	2
CONNEX PLATE	PL 1/2" x (6 1/4" / 7 3/4") x 1'-2"	1
DIAPHRAGM	PL 3/8" x 2'-5 5/8" x 3'-2 1/4"	2
SHEAR STUD	7/8"Ø x 6" SHEAR STUD	62
SOLE PLATE 01	PL 3/4" x 10" x 4'-2" w/(2) 1 5/8"Ø & (2) 1/2"Ø HOLES	1
SOLE PLATE 03	PL 3/4" x 10" x 2'-4"	1
TAG	ID TAG	1

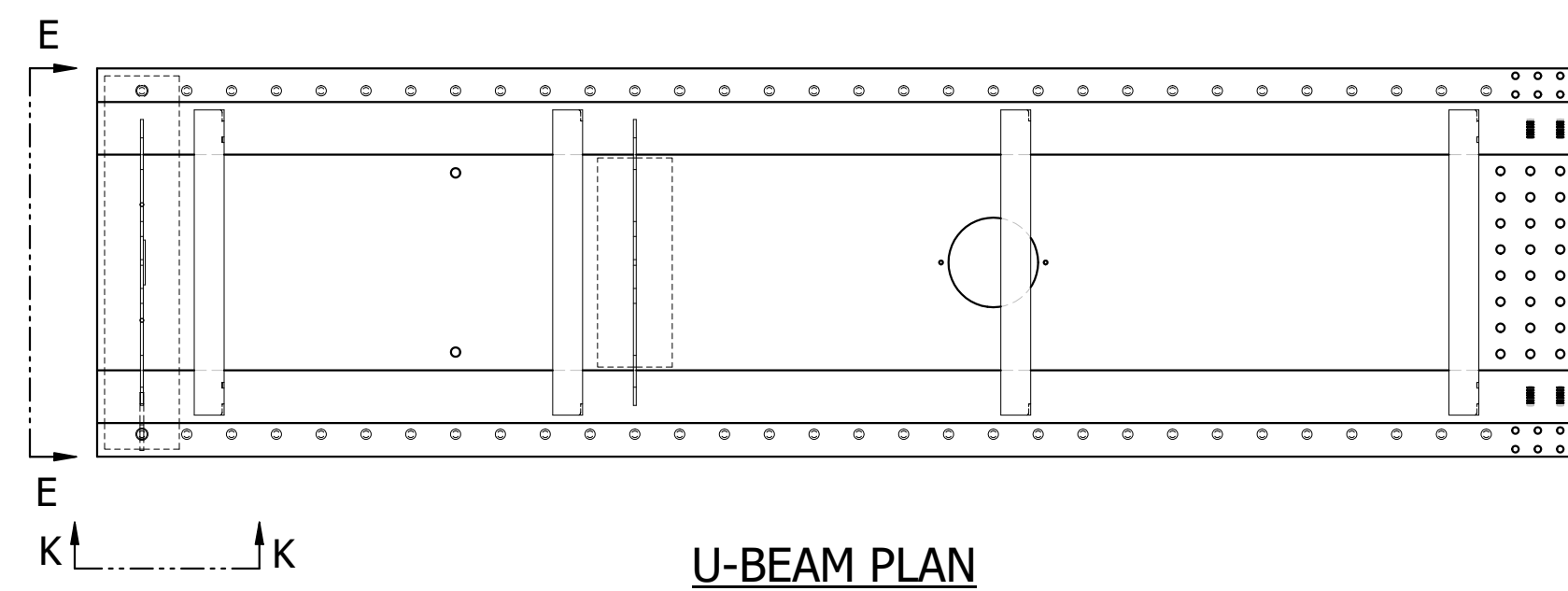
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BRIDGE NO: 58C-0226 / COUNTY PROJECT 6222

TITLE A1-1 SHEET 1

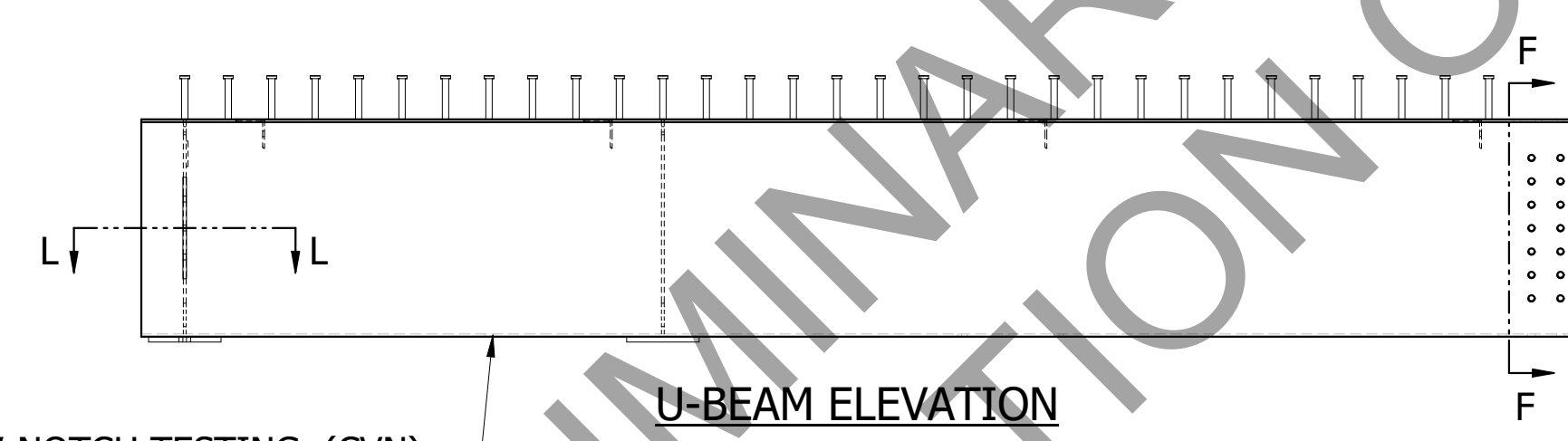
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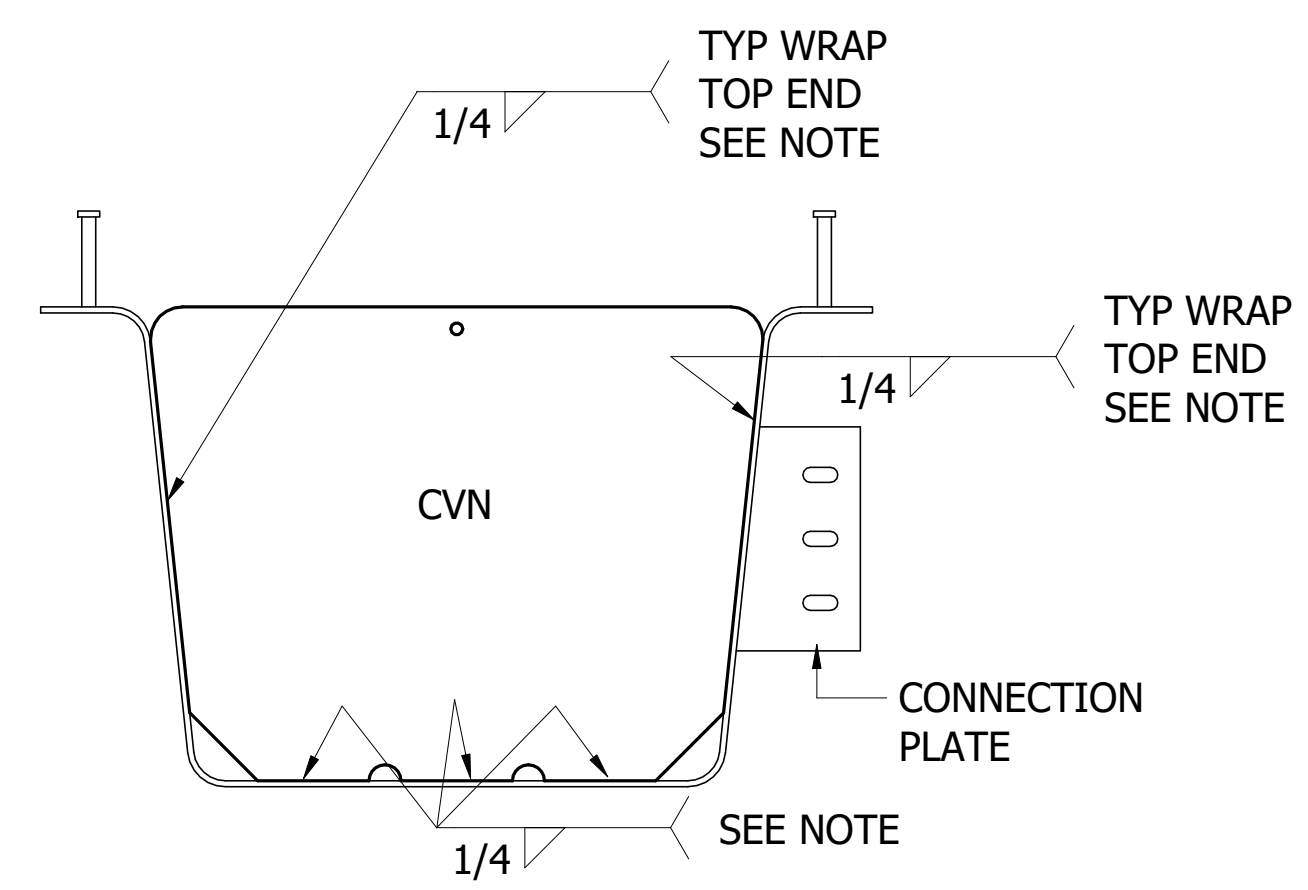


U-BEAM PLAN



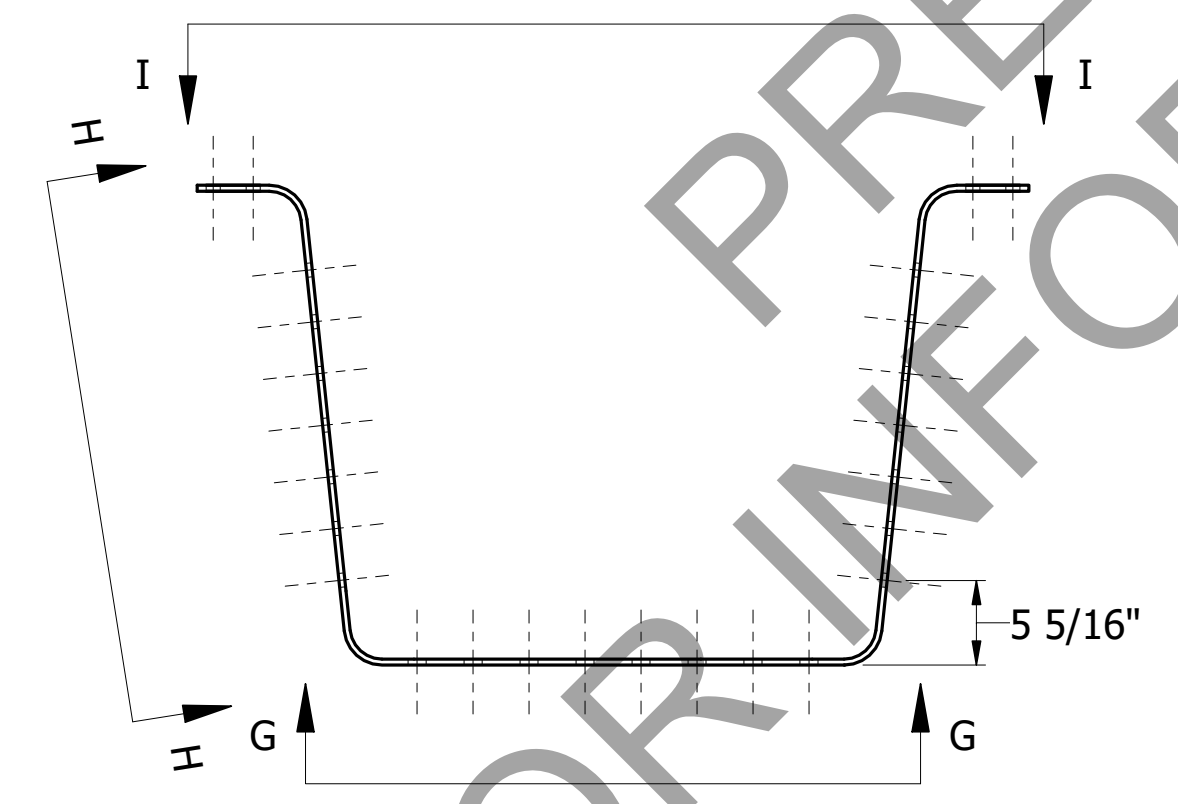
U-BEAM ELEVATION

U-BEAM REQUIRES CHARPY V-NOTCH TESTING. (CVN)

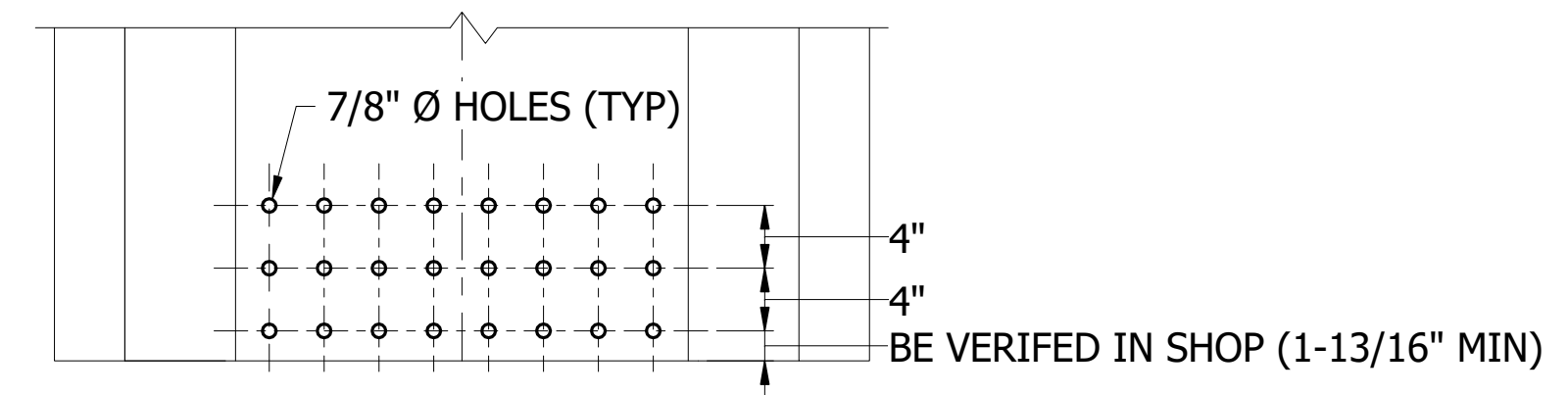


SECTION E-E

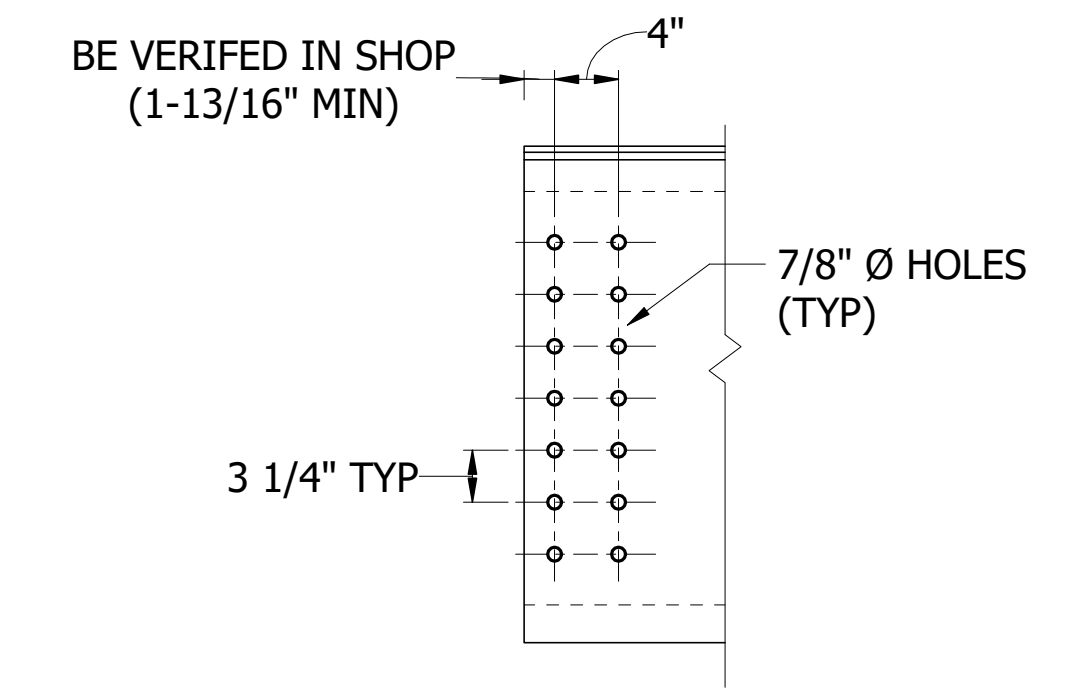
WELD DIAPHRAGM ON OUTSIDE ONLY (TYP)  
(LOOKING NORMAL TO DIAPHRAGM  
AND CONNECTION PLATE)



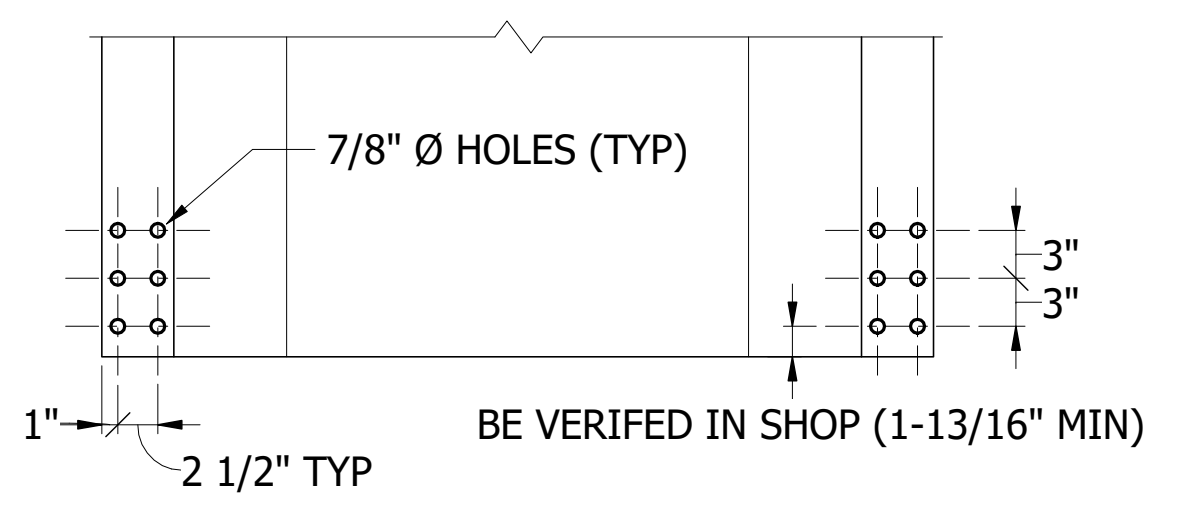
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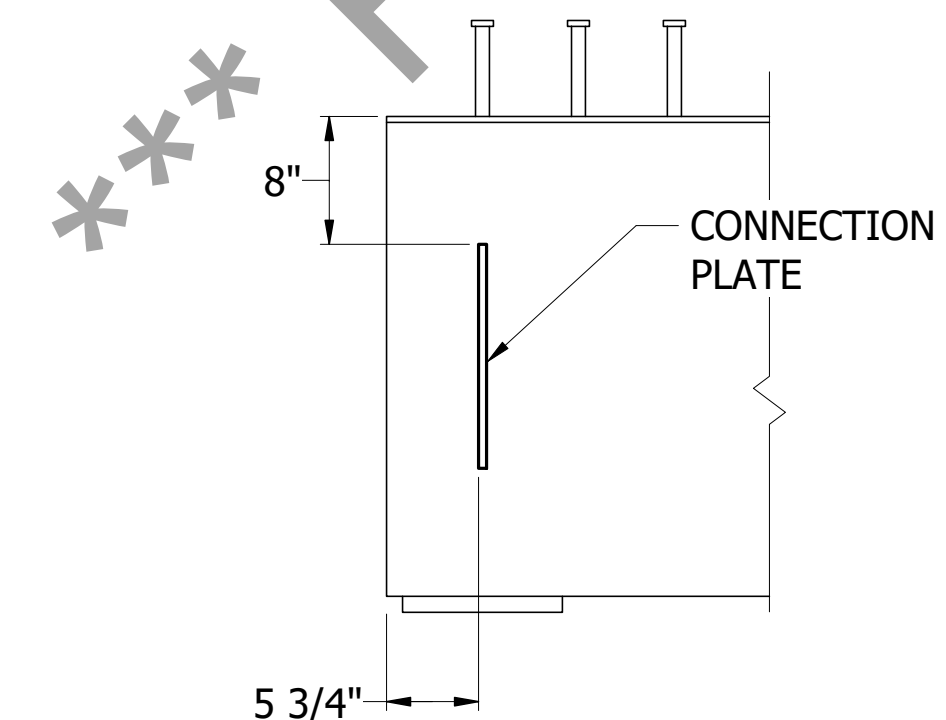
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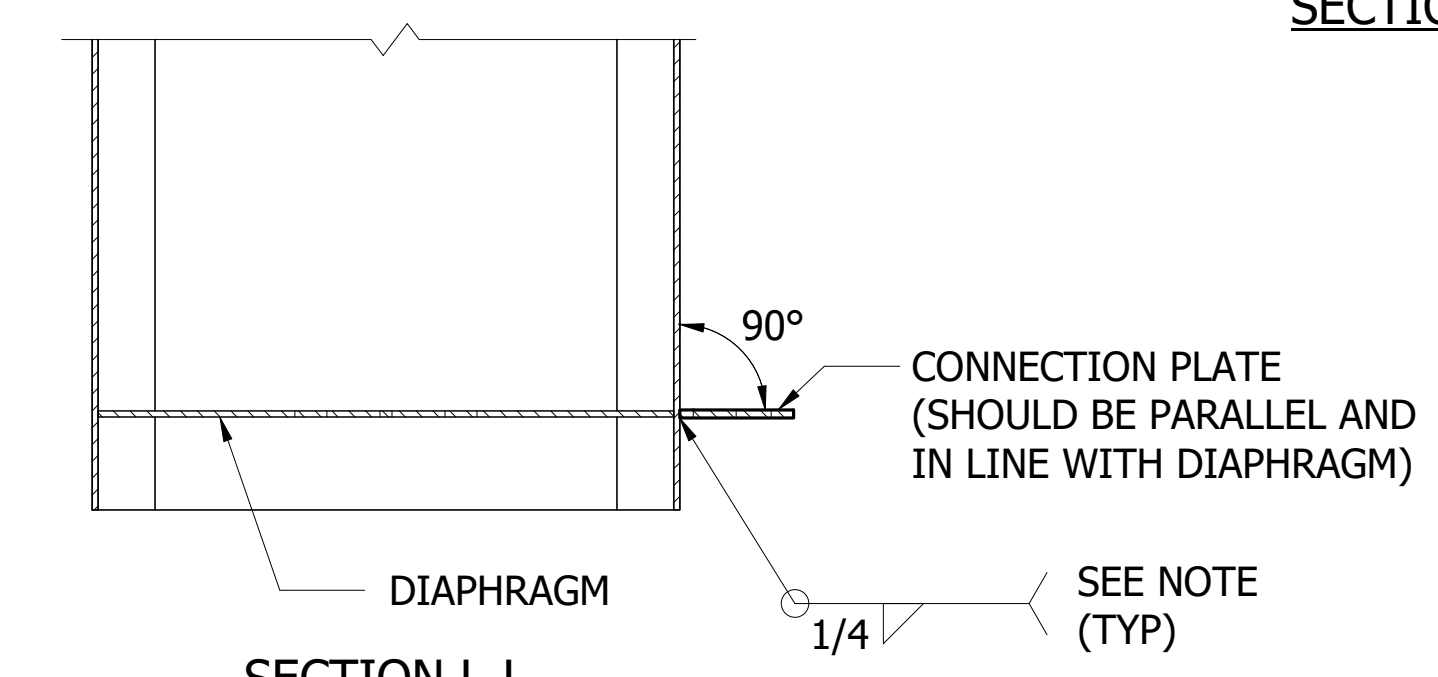
SECTION H-H



SECTION I-I



SECTION K-K



SECTION L-L  
(CONNECTION PLATE DETAIL)

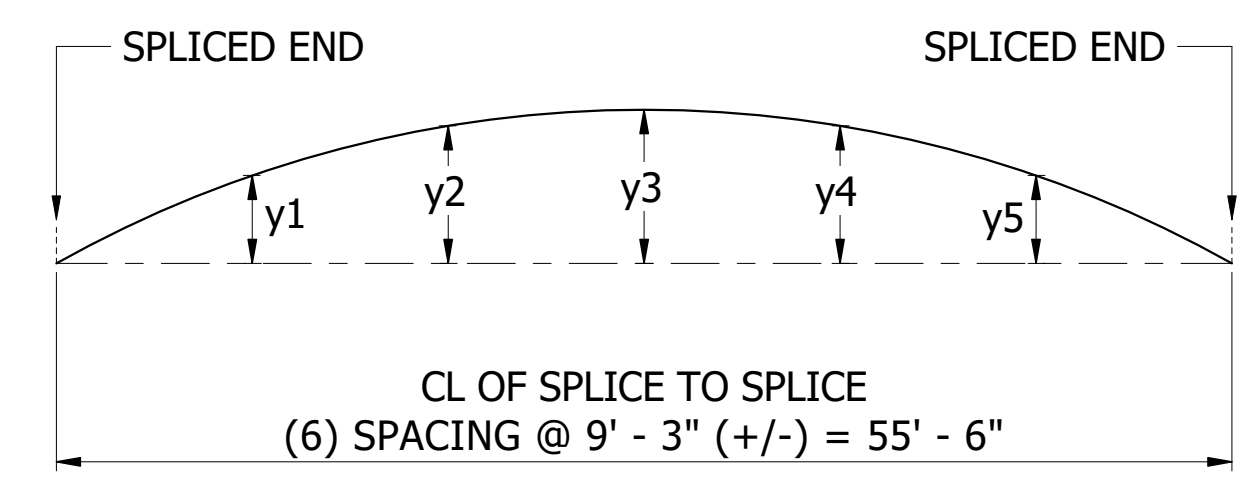
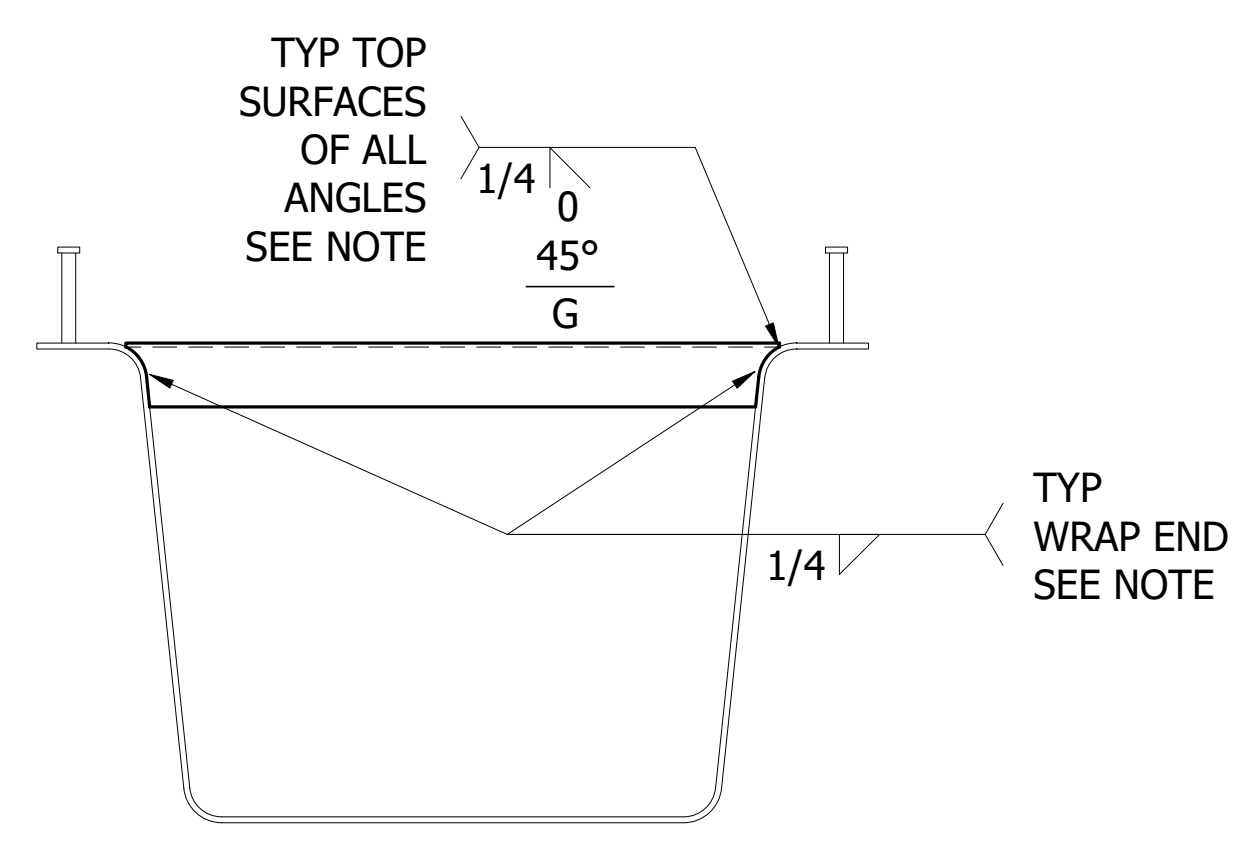
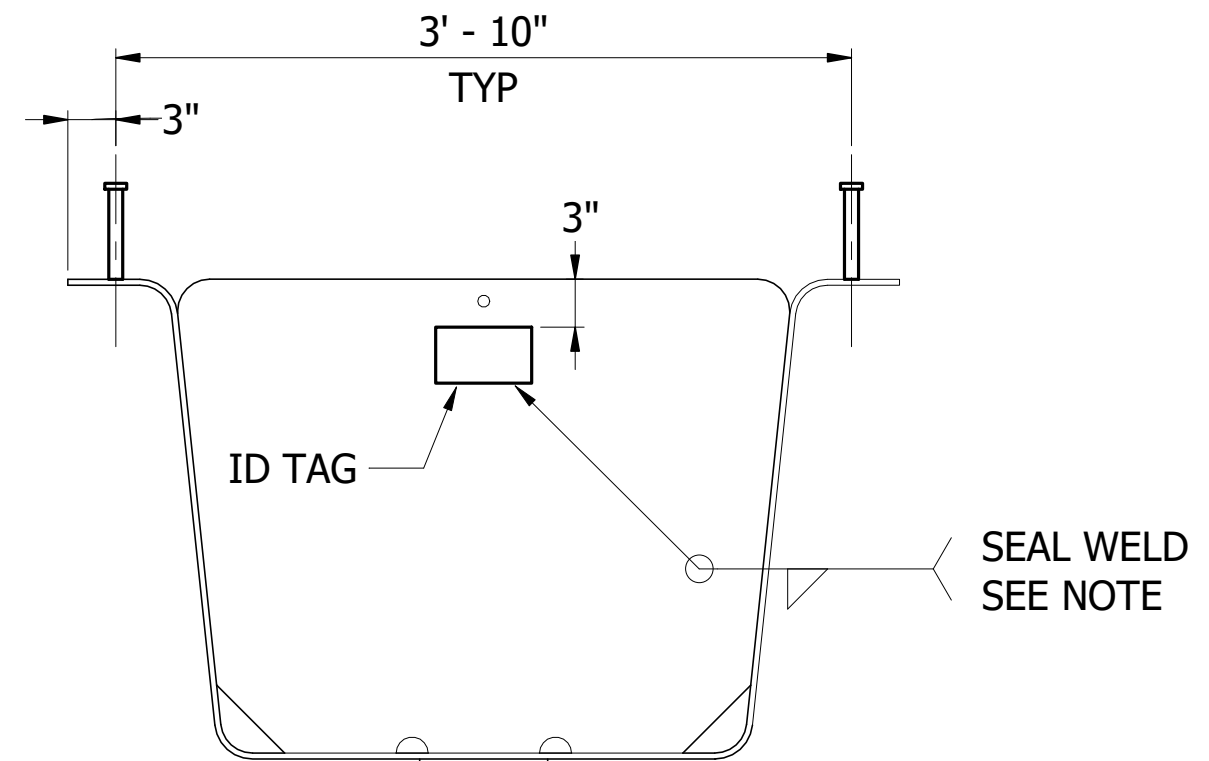
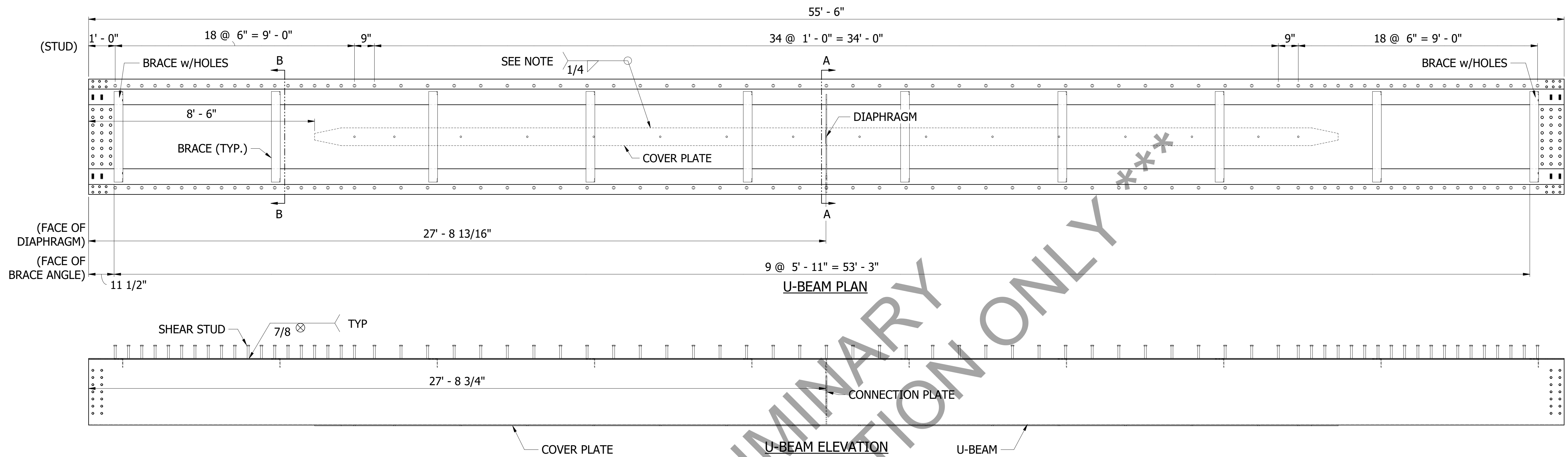
JOB	IMPERIAL CO., CA. DOGWOOD ROAD OVER CENTRAL MAIN CANAL BRIDGE NO: 58C-0226 / COUNTY PROJECT 6222
TITLE	A1-1 SHEET 2

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PRELIMINARY INFORMATION ONLY \*\*\*\*



CAMBER ORDINATES	U-BEAM A1-2
y1	1 7/8"
y2	2 15/16"
y3	3 5/16"
y4	2 15/16"
y5	1 7/8"

WELD NOTE:  
- SEE WELDING SECTION ON COVER SHEET FOR WELDING SPECIFICATIONS.

NOTE:  
- REFERENCE FRAMING PLAN DRAWING FOR OVERALL GIRDER ASSEMBLY.

LABEL	DESCRIPTION	QTY PER ASSY
U-BEAM	U30 x 55' - 6" GIRDER	1
BRACE	L4x4x1/4 x 3'-4 7/8"	8
BRACE w/HOLES	L4x4x1/4 x 3'-4 7/8" w/(2) 3/4"Ø HOLES	2
CONNEX PLATE	PL 1/2" x (6 1/4" / 7 3/4") x 1'-2"	1
COVER PLATE	PL 3/8" x 8" x 38' - 6"	1
DIAPHRAGM	PL 3/8" x 2'-5 5/8" x 3'-2 1/4"	1
SHEAR STUD	7/8"Ø x 6" SHEAR STUD	146
TAG	ID TAG	1

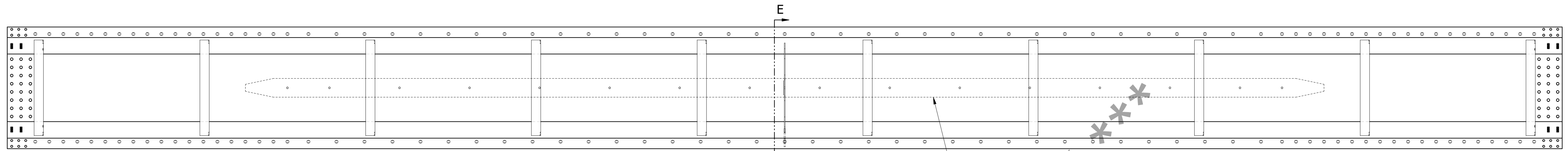
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BRIDGE NO: 58C-0226 / COUNTY PROJECT 6222

TITLE A1-2 SHEET 1

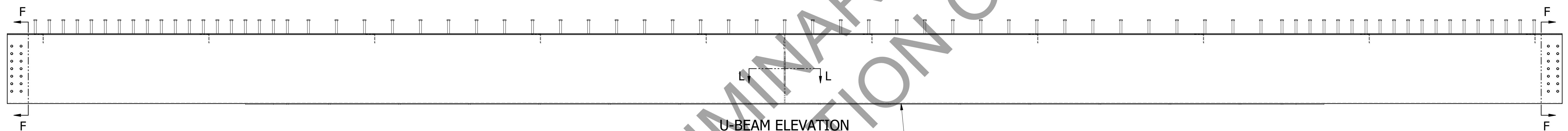
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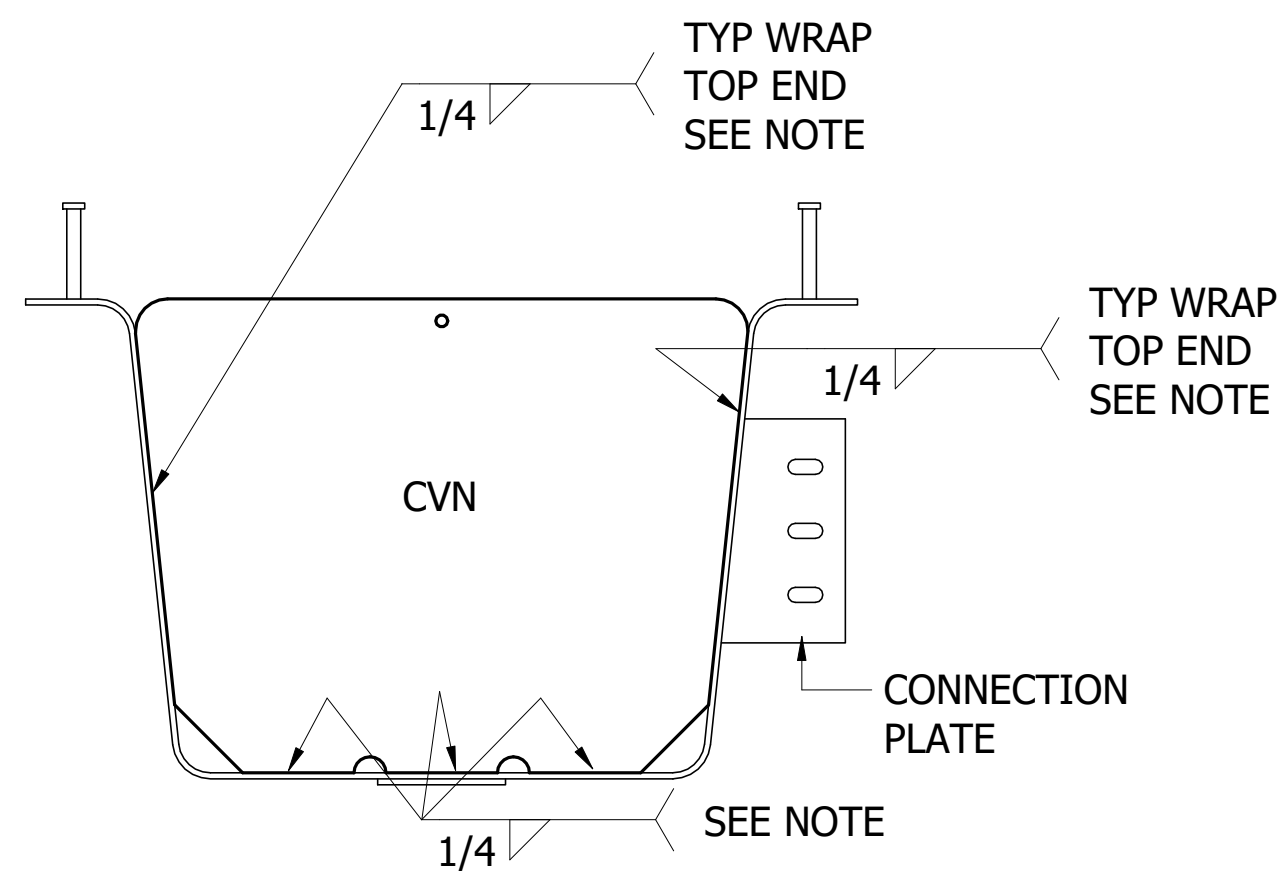
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U-BEAM PLAN

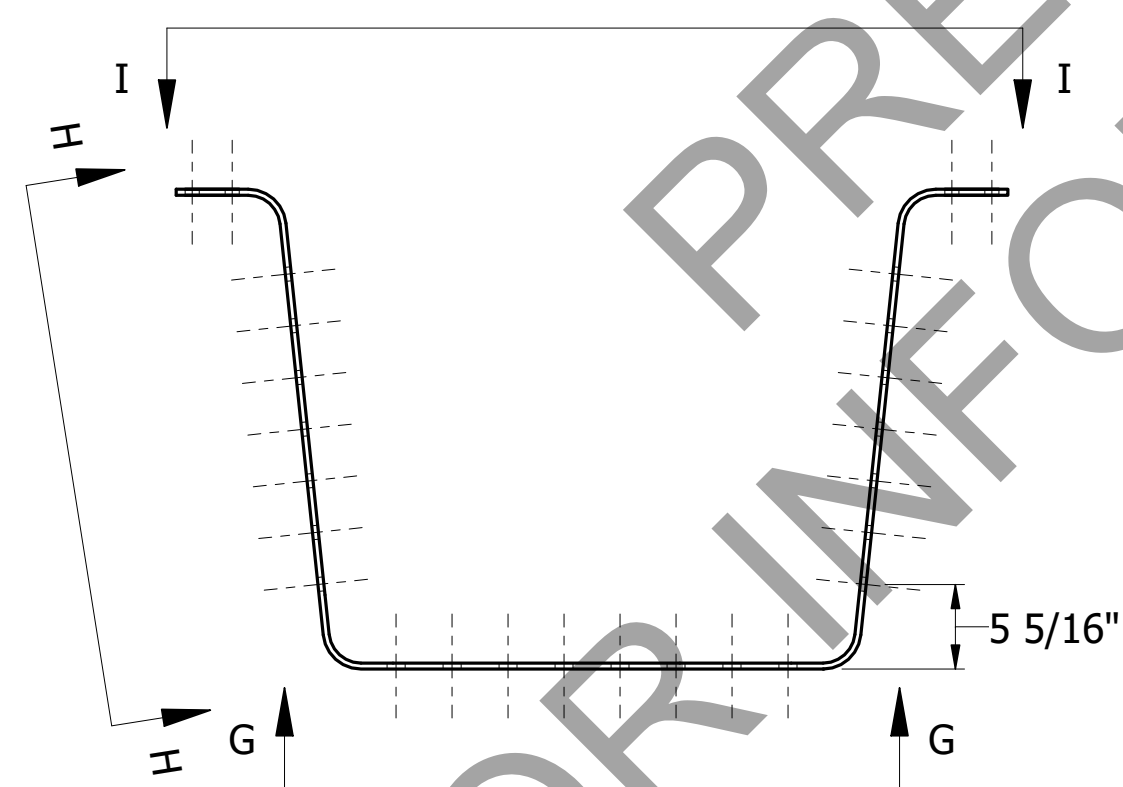


U-BEAM ELEVATION

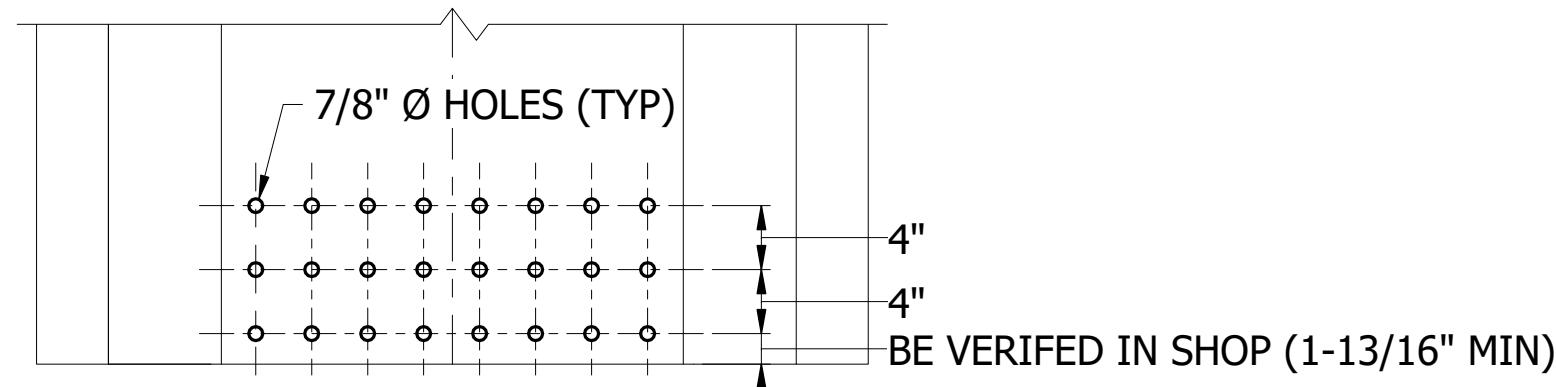


SECTION E-E

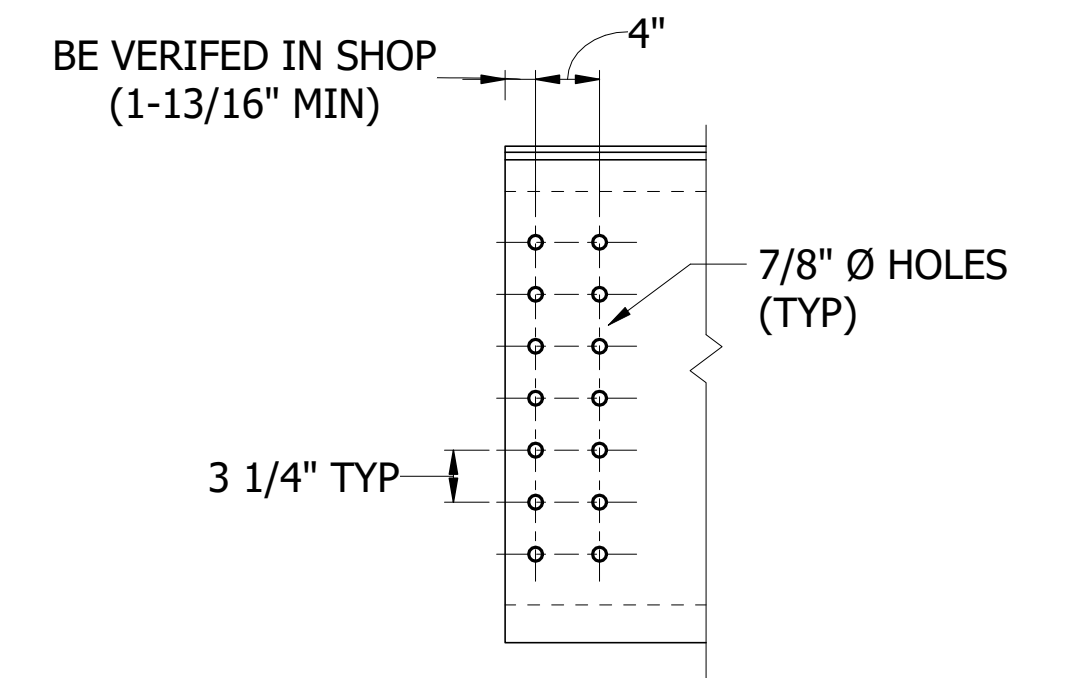
WELD DIAPHRAGM ON OUTSIDE ONLY (TYP)  
(LOOKING NORMAL TO DIAPHRAGM  
AND CONNECTION PLATE)



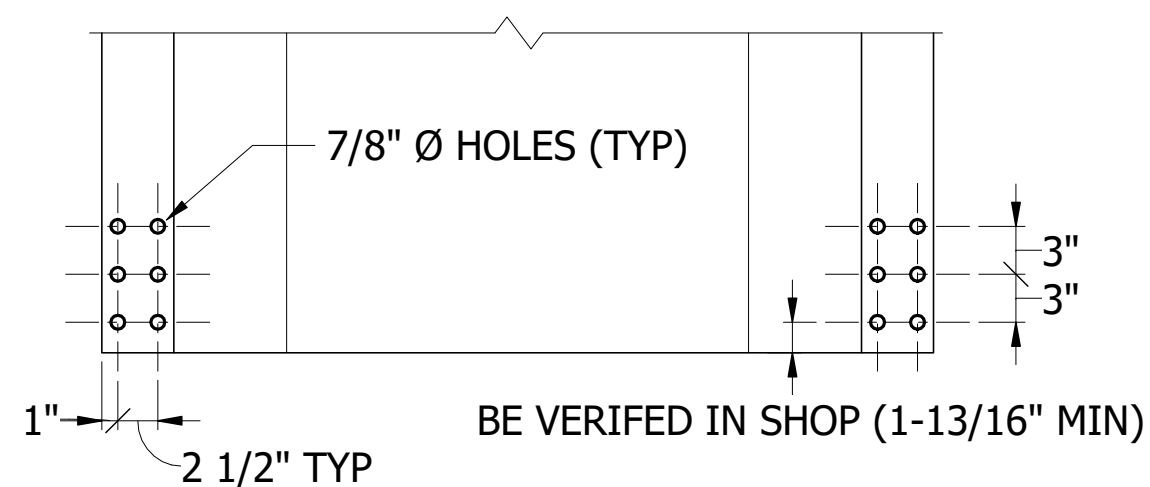
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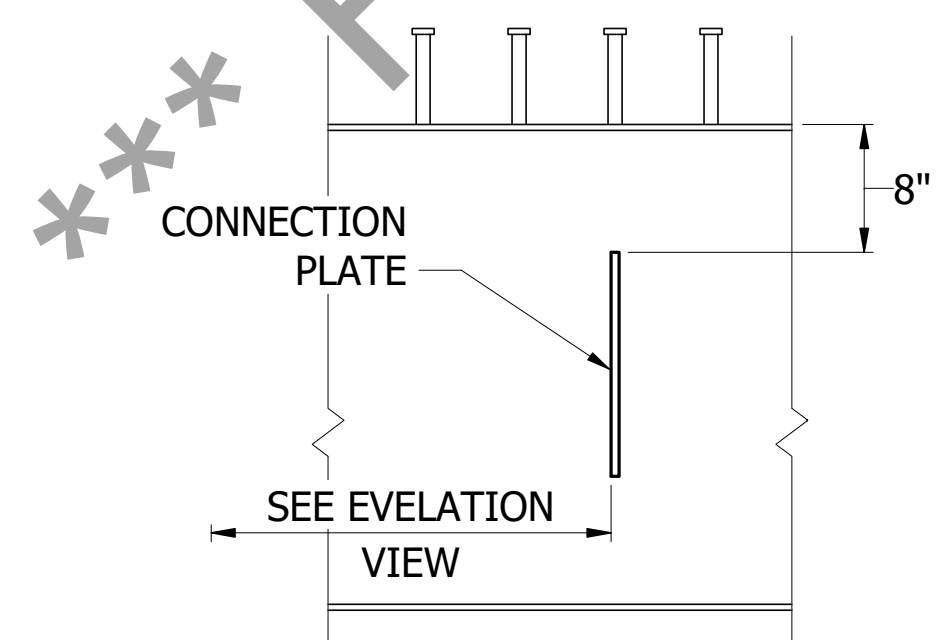
SECTION G-G



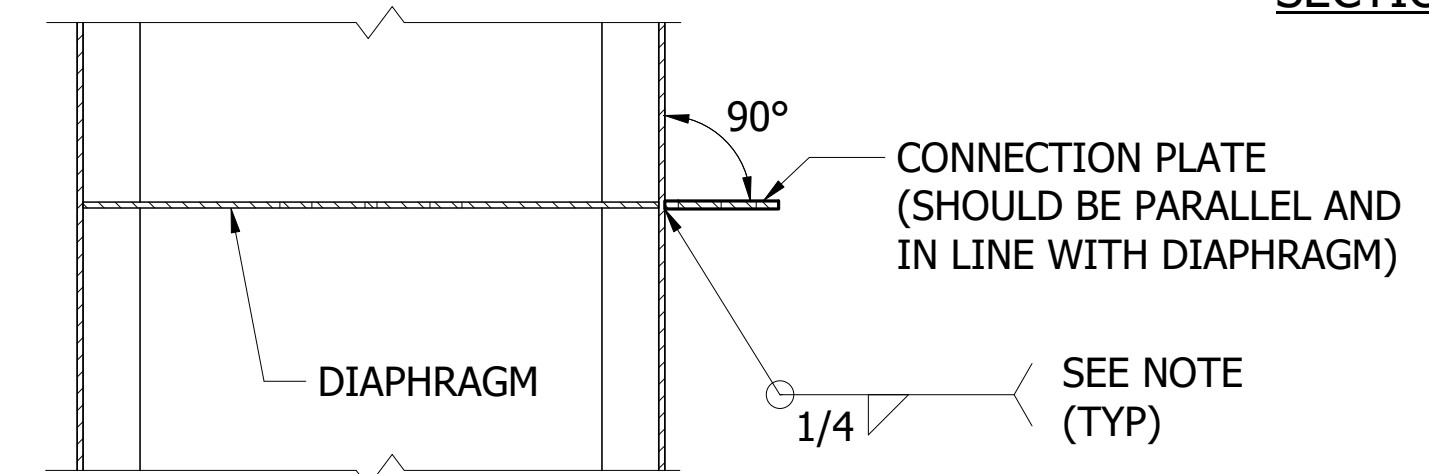
SECTION H-H



SECTION I-I



SECTION K-K



SECTION L-L  
(CONNECTION PLATE DETAIL)

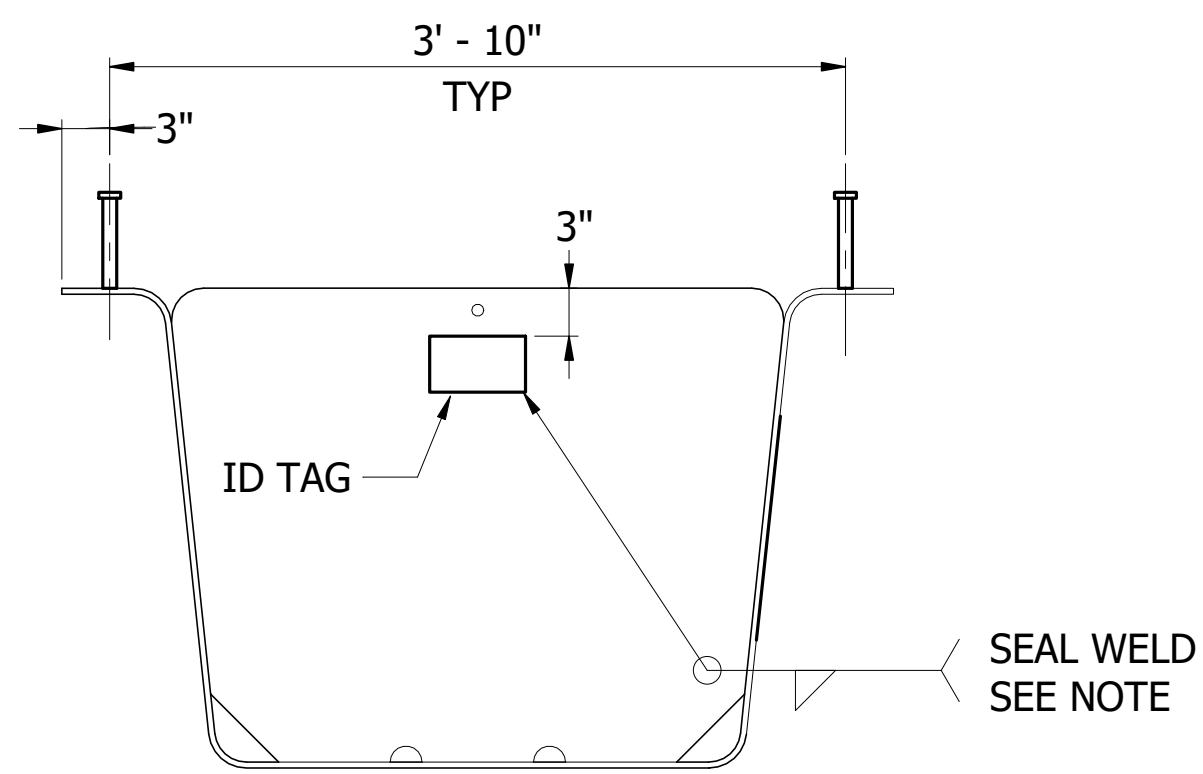
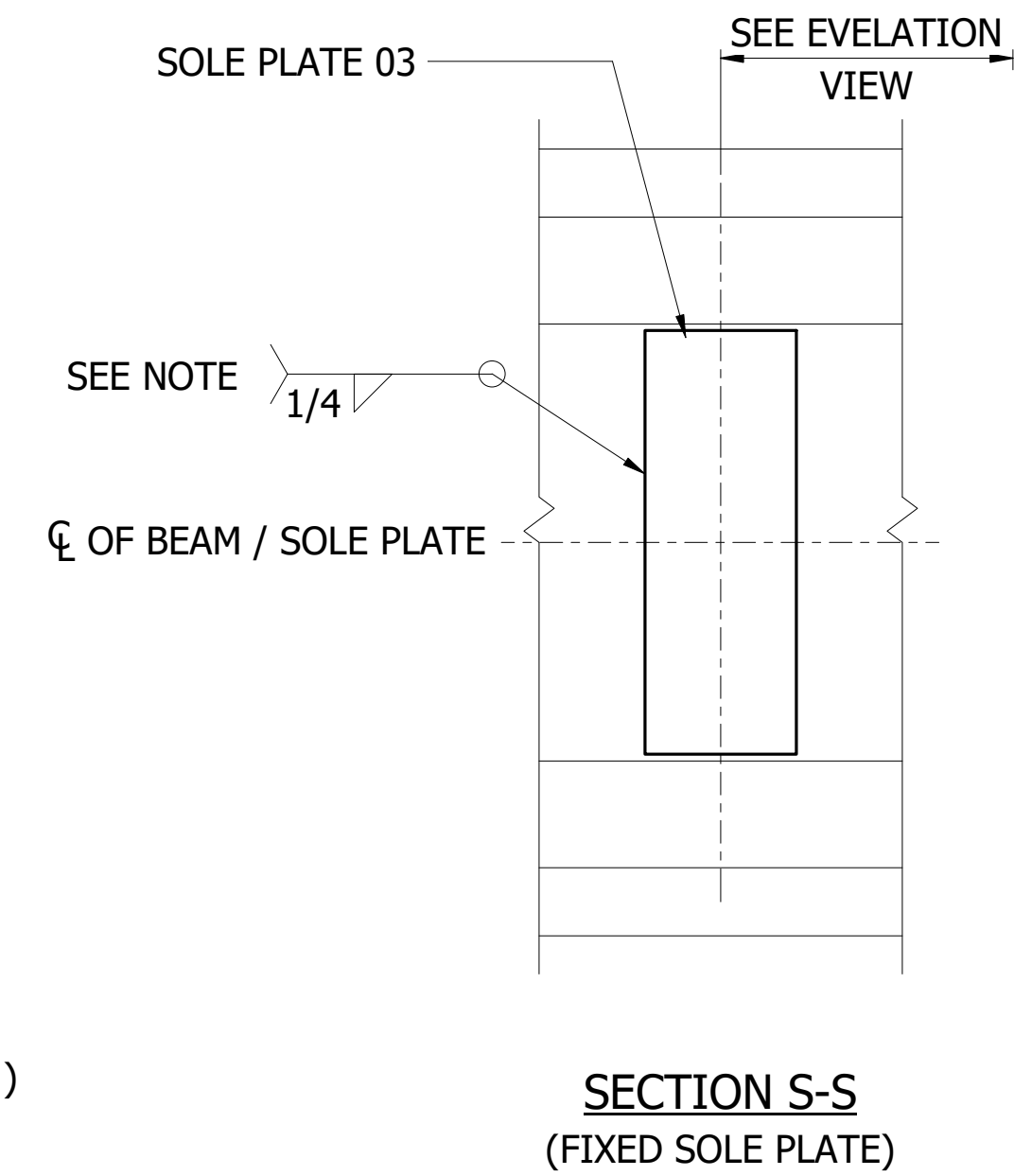
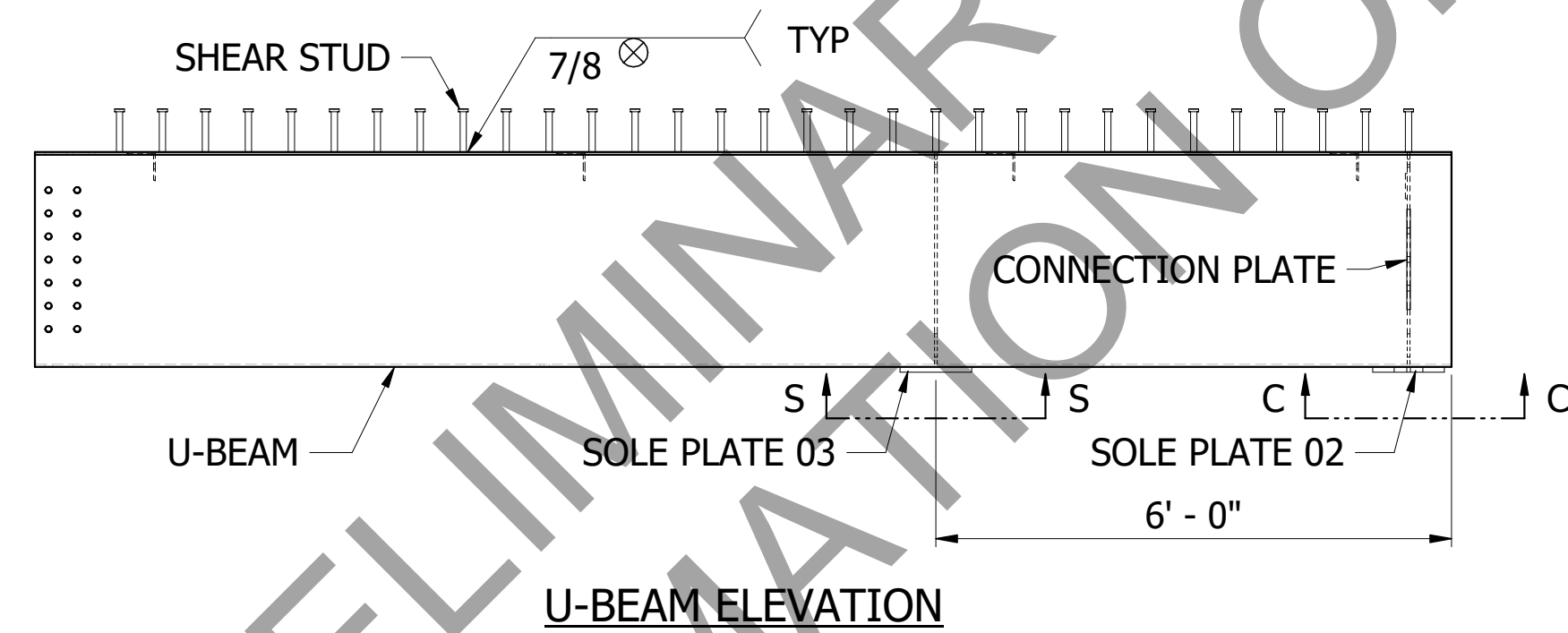
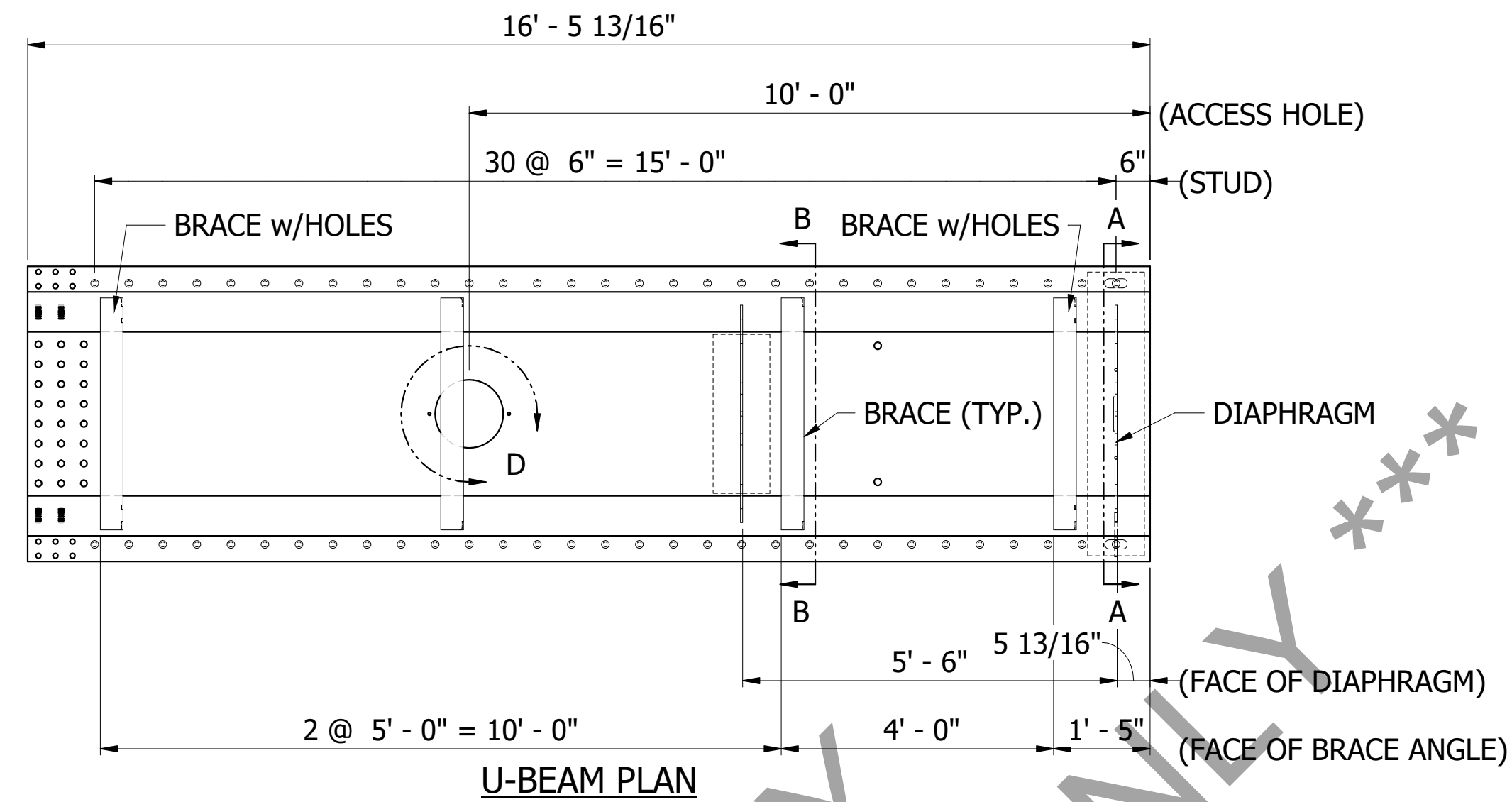
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DOGWOOD ROAD OVER CENTRAL MAIN CANAL  
BRIDGE NO: 58C-0226 / COUNTY PROJECT 6222

TITLE A1-2 SHEET 2

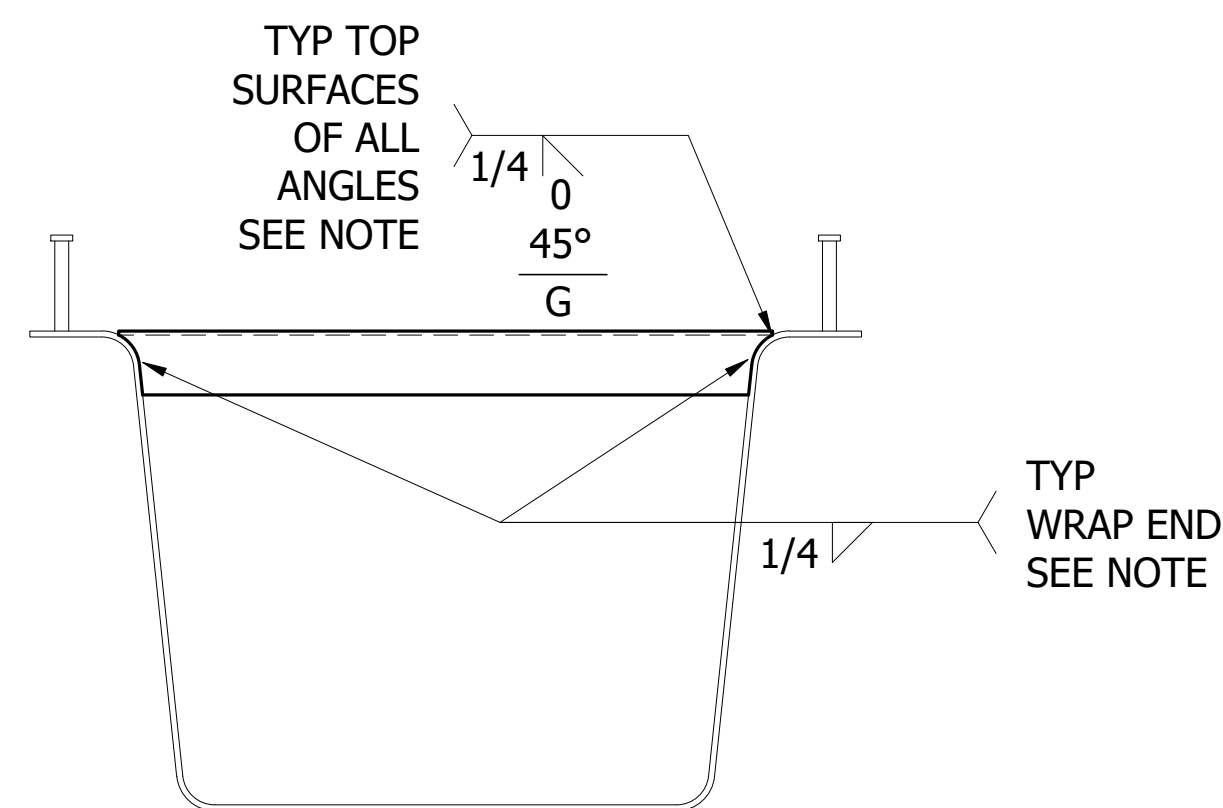
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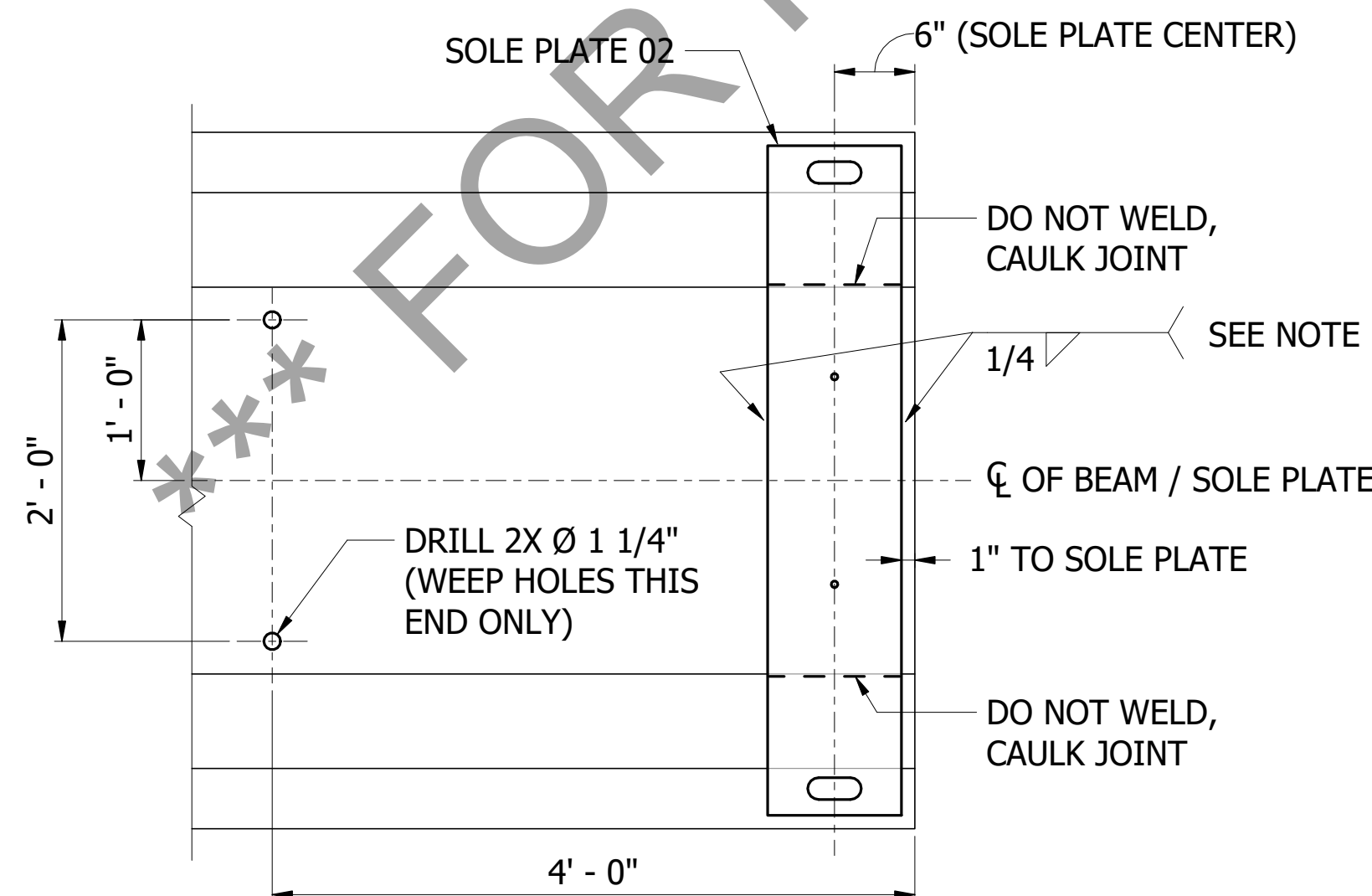
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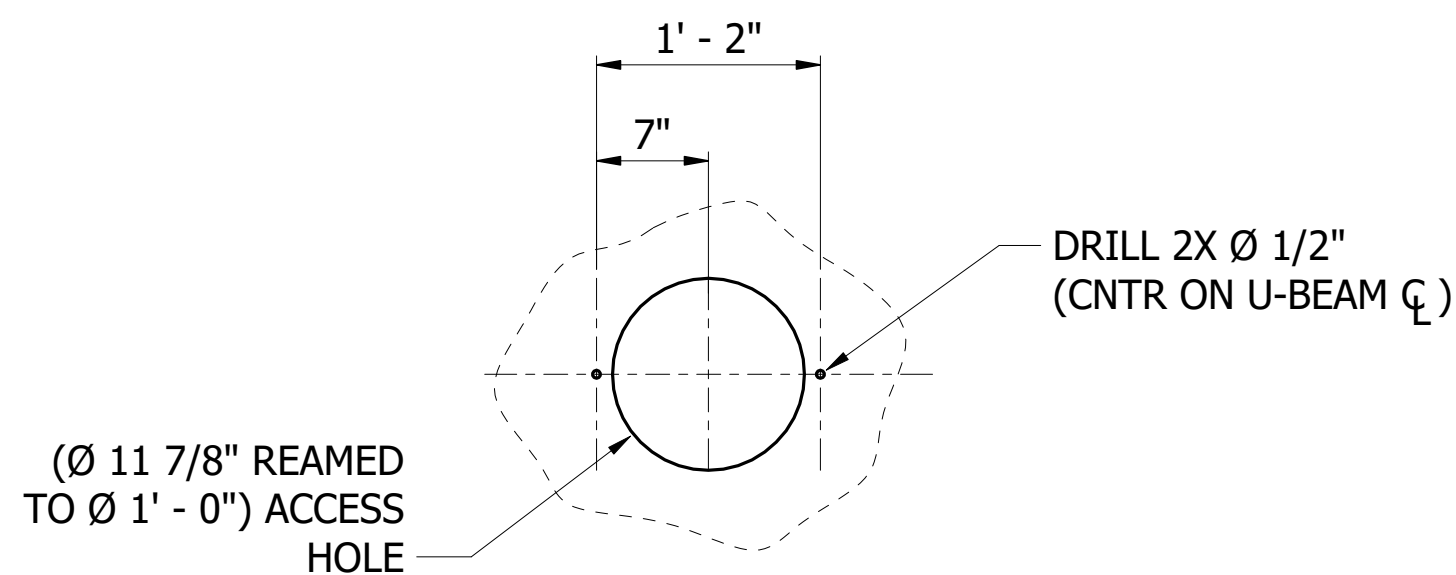
**SECTION A-A**  
(CONNECTION PLATES ARE NOT SHOWN FOR CLARITY.)



**SECTION B-B**



**SECTION C-C**  
(EXP. SOLE PLATE)



**DETAIL D**

WELD NOTE:  
- SEE WELDING SECTION ON COVER SHEET FOR WELDING SPECIFICATIONS.

NOTE:  
- REFERENCE FRAMING PLAN DRAWING FOR OVERALL GIRDER ASSEMBLY.

LABEL	DESCRIPTION	QTY PER ASSY
U-BEAM	U30 x 16' - 5 13/16" GIRDER	1
BRACE	L4x4x1/4 x 3'-4 7/8"	2
BRACE w/HOLES	L4x4x1/4 x 3'-4 7/8" w/(2) 3/4"Ø HOLES	2
CONNEX PLATE	PL 1/2" x (6 1/4" / 7 3/4") x 1'-2"	1
DIAPHRAGM	PL 3/8" x 2'-5 5/8" x 3'-2 1/4"	2
SHEAR STUD	7/8"Ø x 6" SHEAR STUD	62
SOLE PLATE 02	PL 3/4" x 10" x 4'-2" w/(2) 1/2"Ø HOLES & (2) 1 5/8"Ø x 4" SLOTTED HOLES	1
SOLE PLATE 03	PL 3/4" x 10" x 2'-4"	1
TAG	ID TAG	1

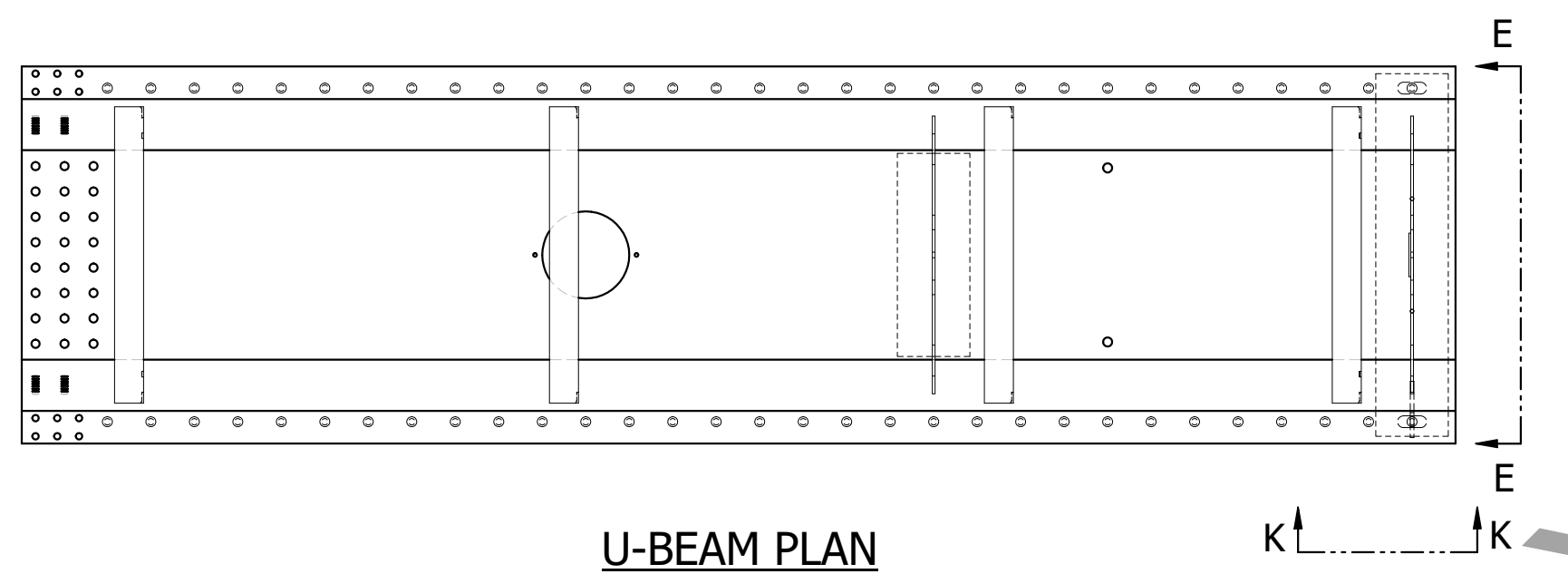
JOB IMPERIAL CO., CA.  
DOGWOOD ROAD OVER CENTRAL MAIN CANAL  
BRIDGE NO: 58C-0226 / COUNTY PROJECT 6222

TITLE A1-3 SHEET 1

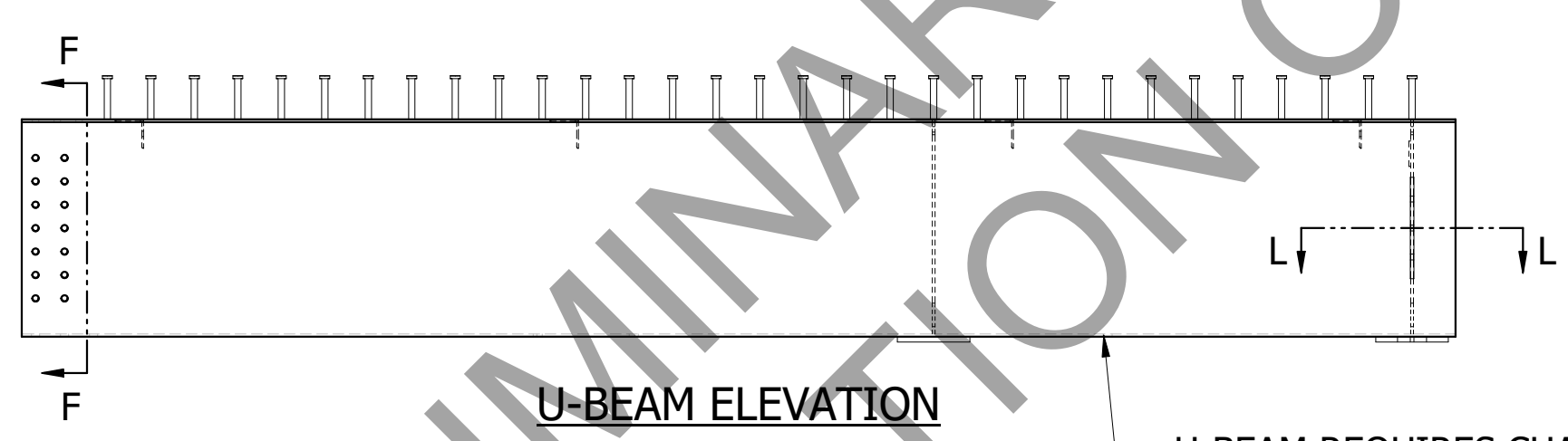
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ORDER NUMBER: 529039-P1  
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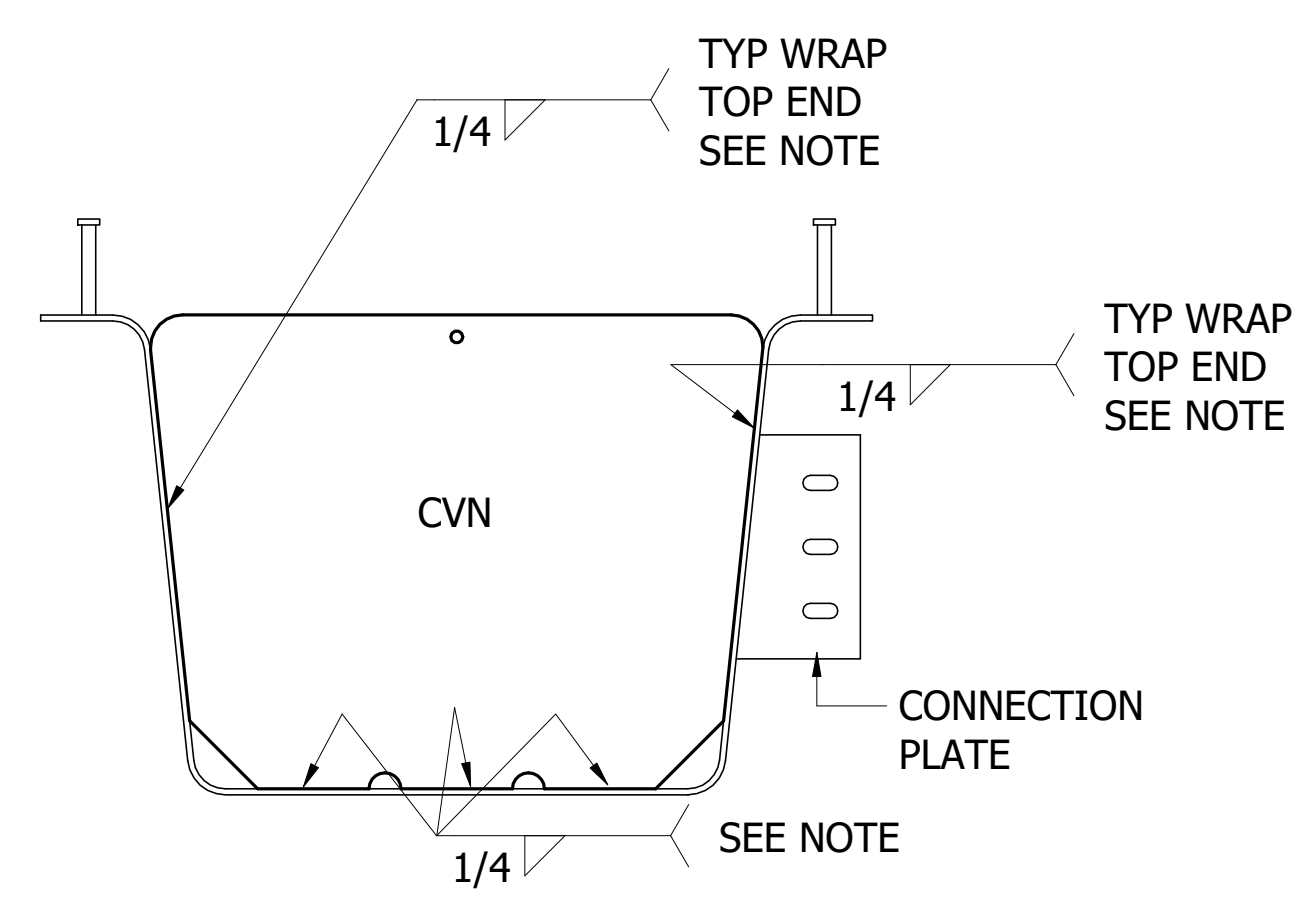


U-BEAM PLAN



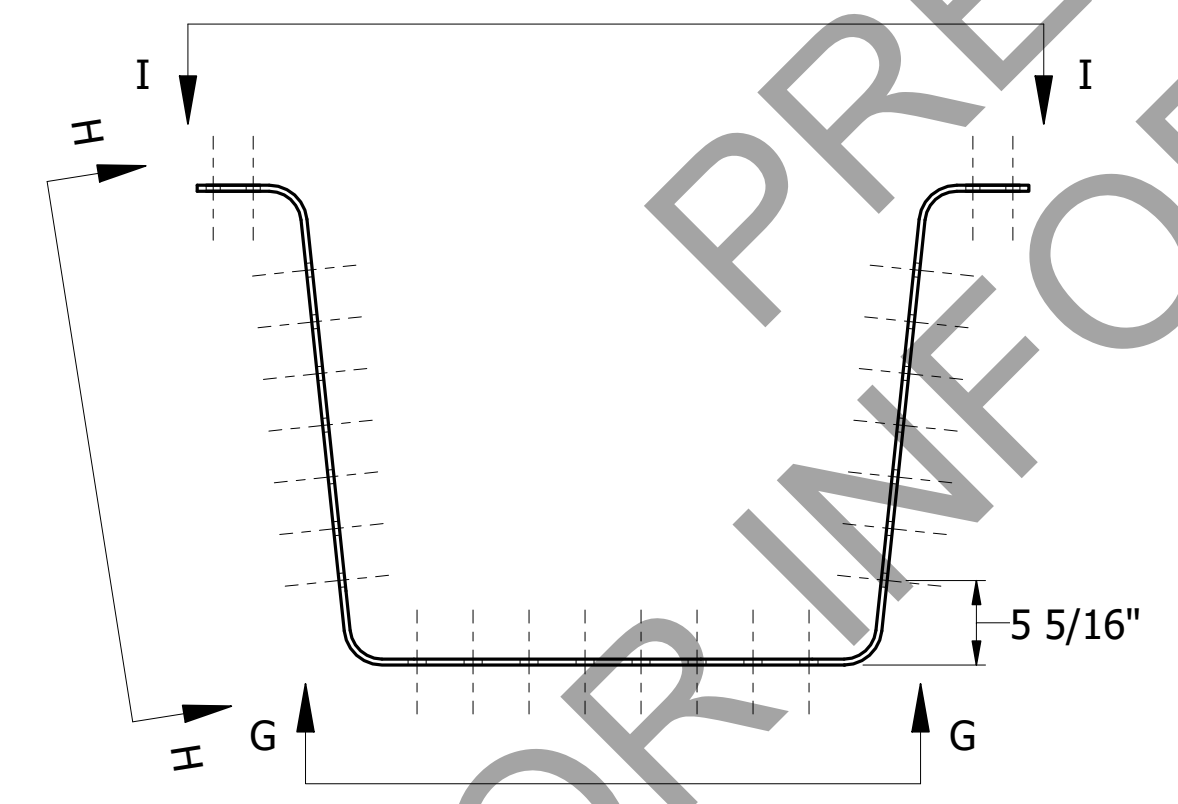
U-BEAM ELEVATION

U-BEAM REQUIRES CHARPY V-NOTCH TESTING. (CVN)

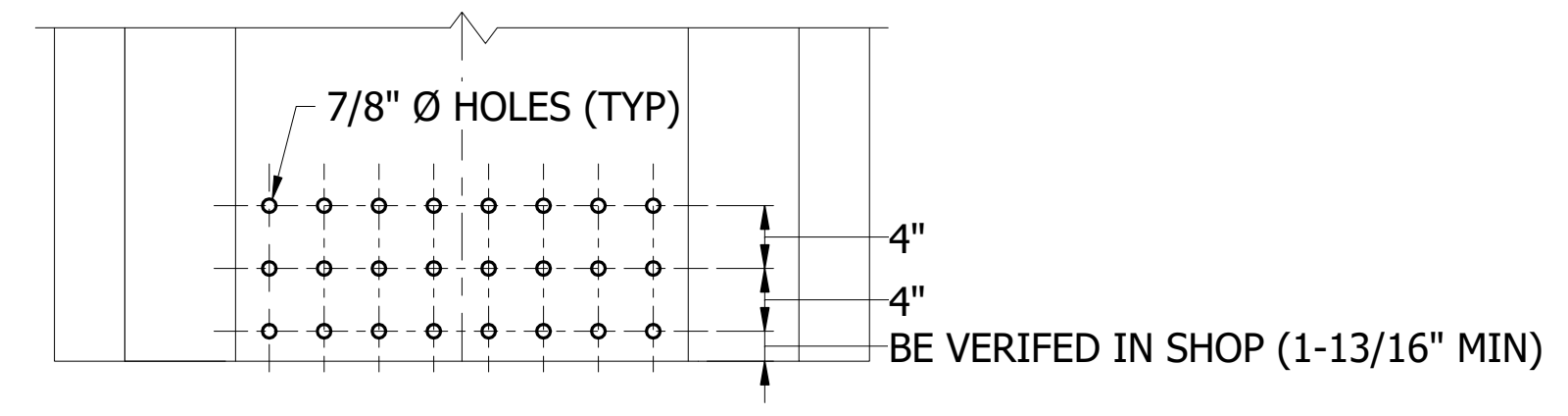


SECTION E-E

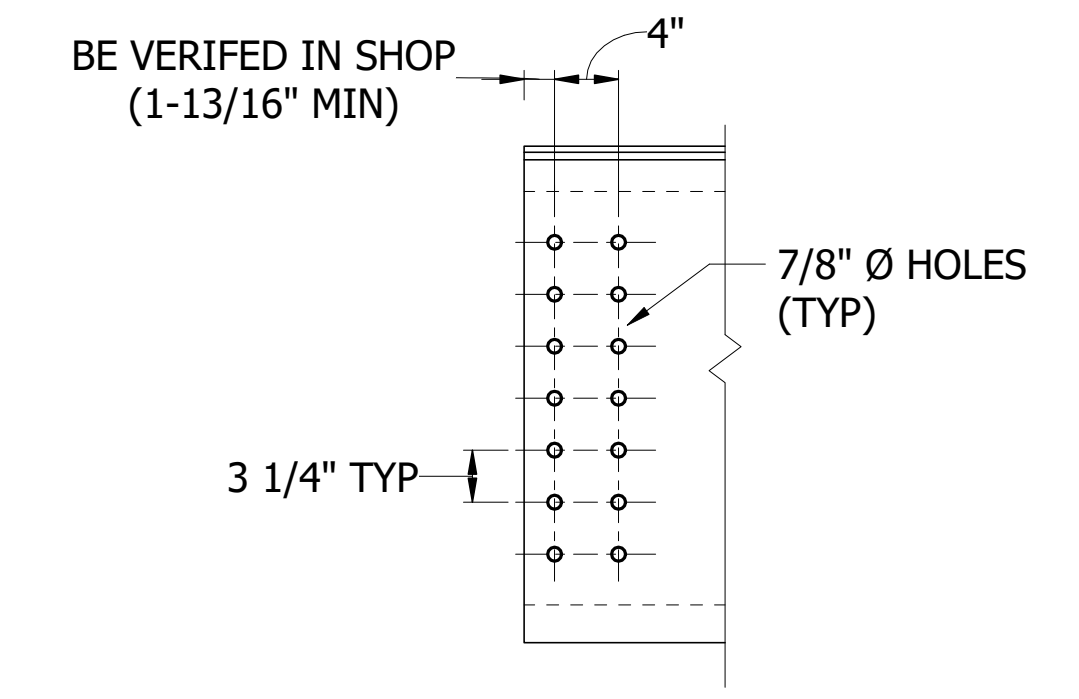
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(LOOKING NORMAL TO DIAPHRAGM  
AND CONNECTION PLATE)



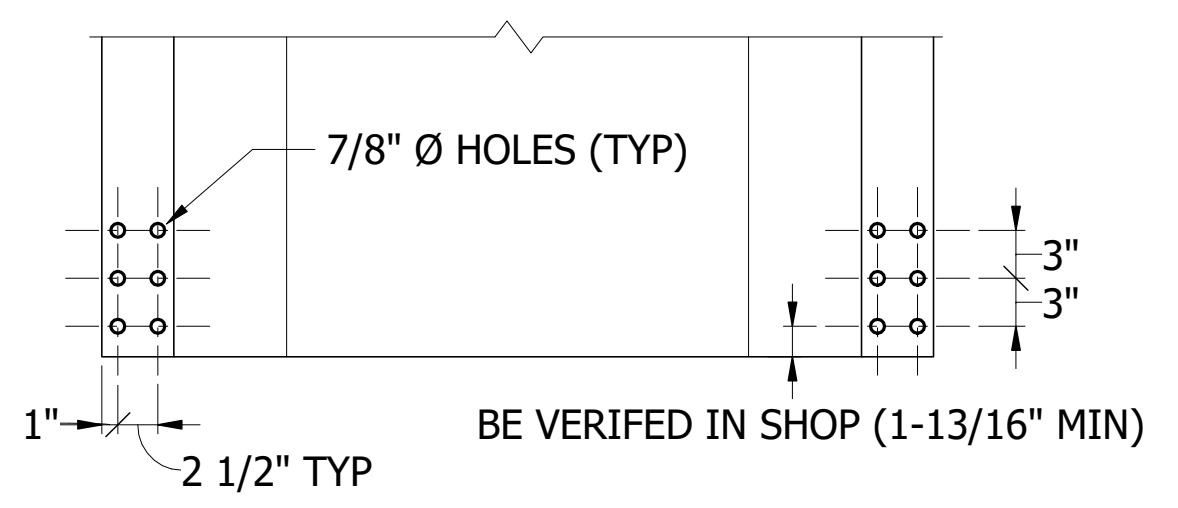
SECTION F-F



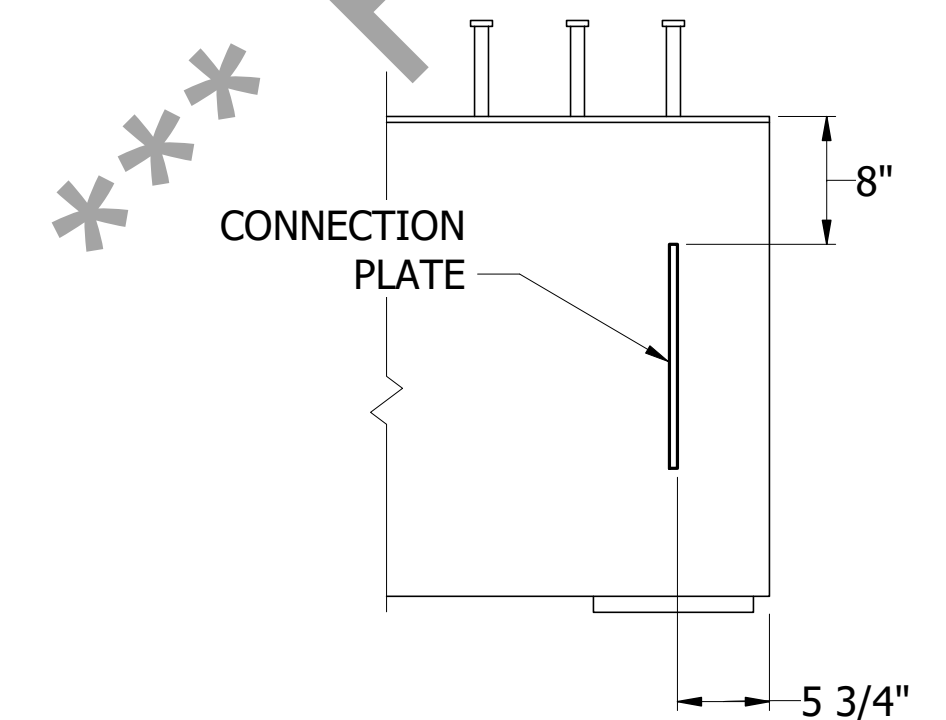
SECTION G-G



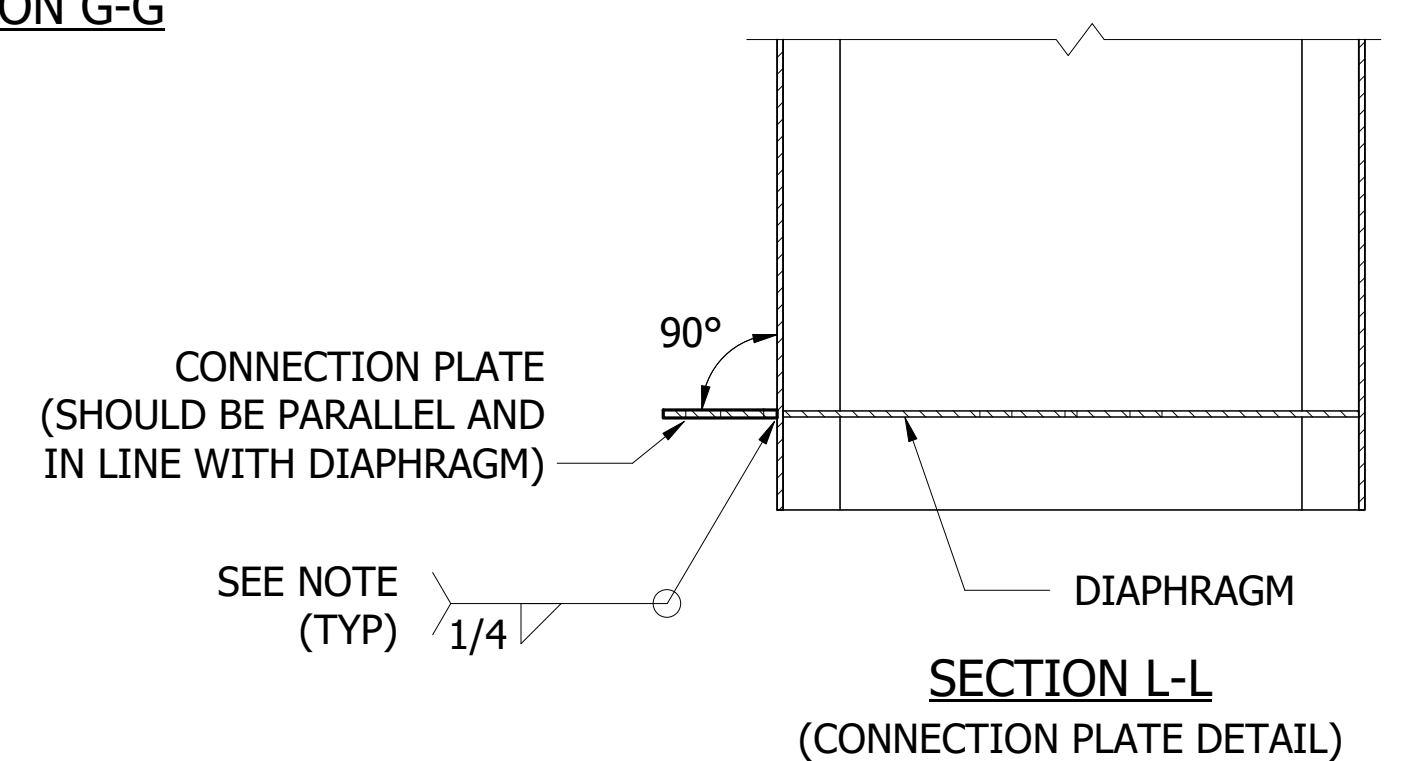
SECTION H-H



SECTION I-I



SECTION K-K



SECTION L-L  
(CONNECTION PLATE DETAIL)

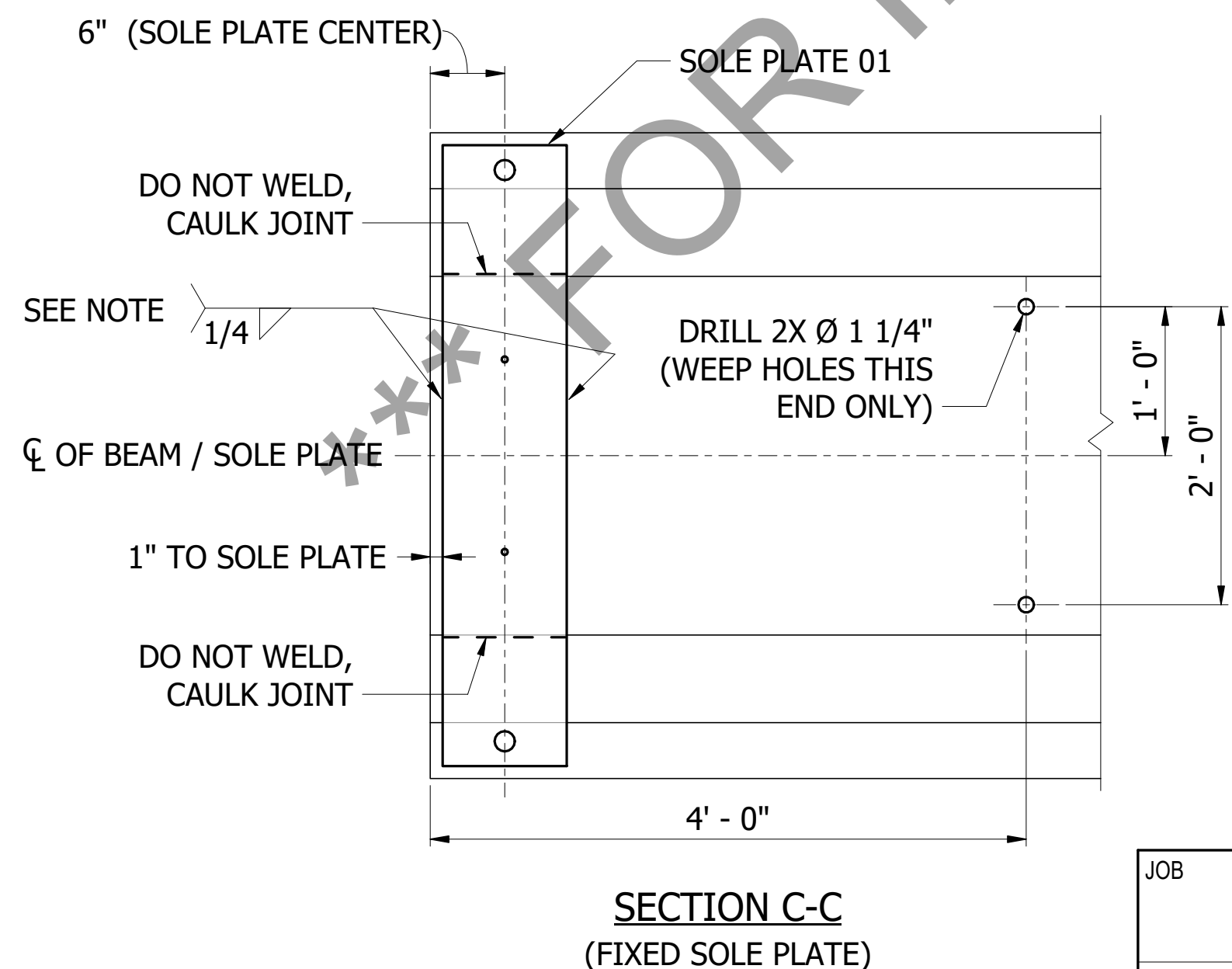
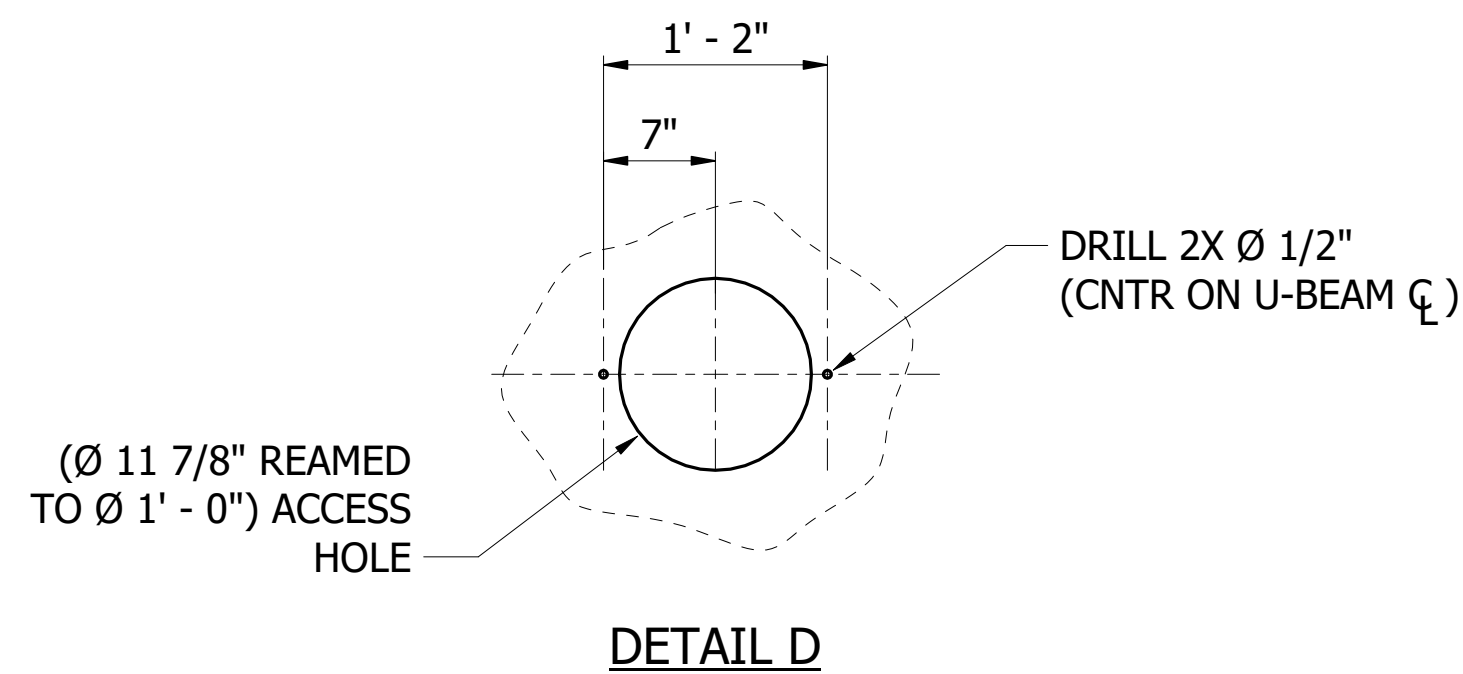
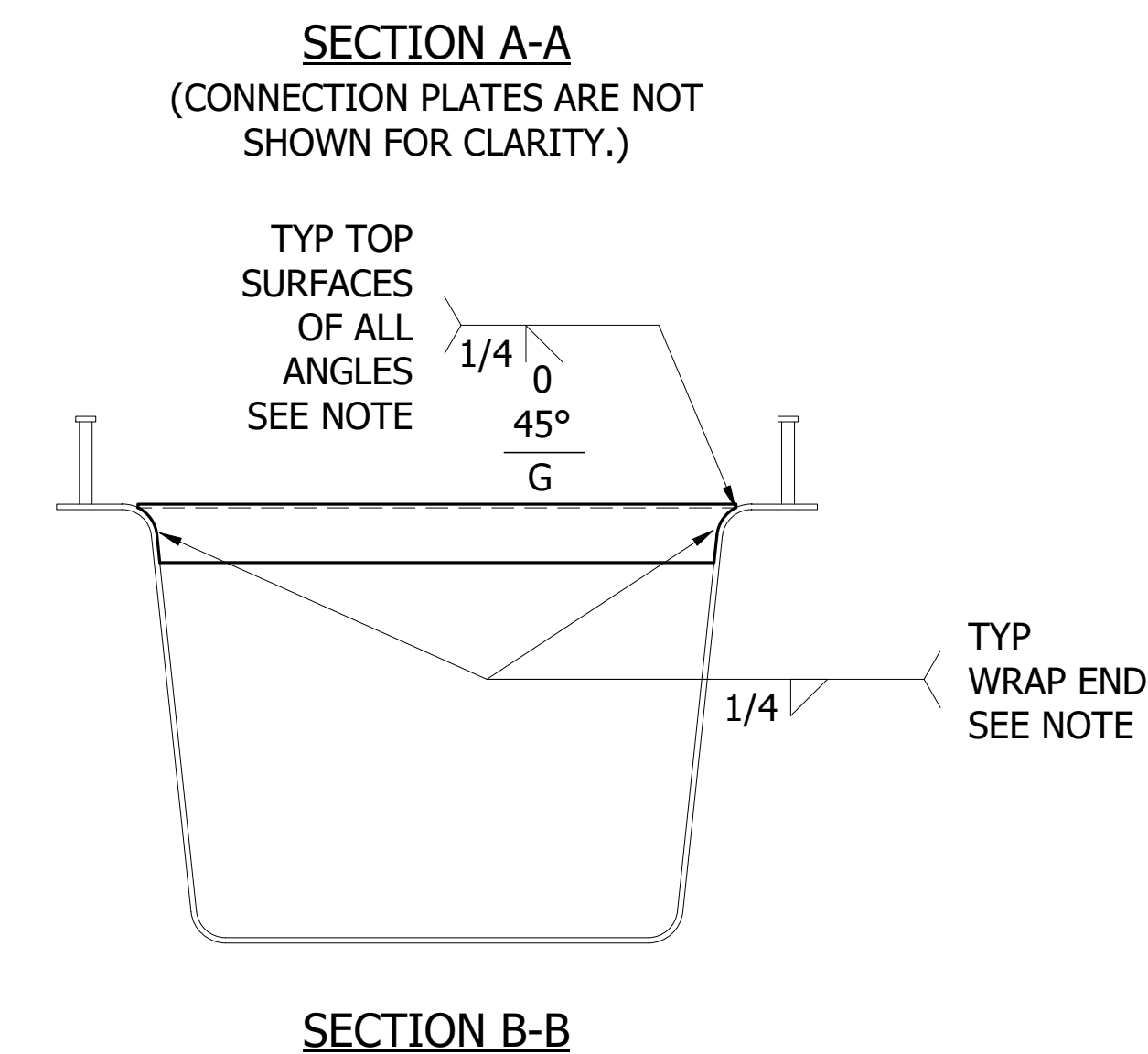
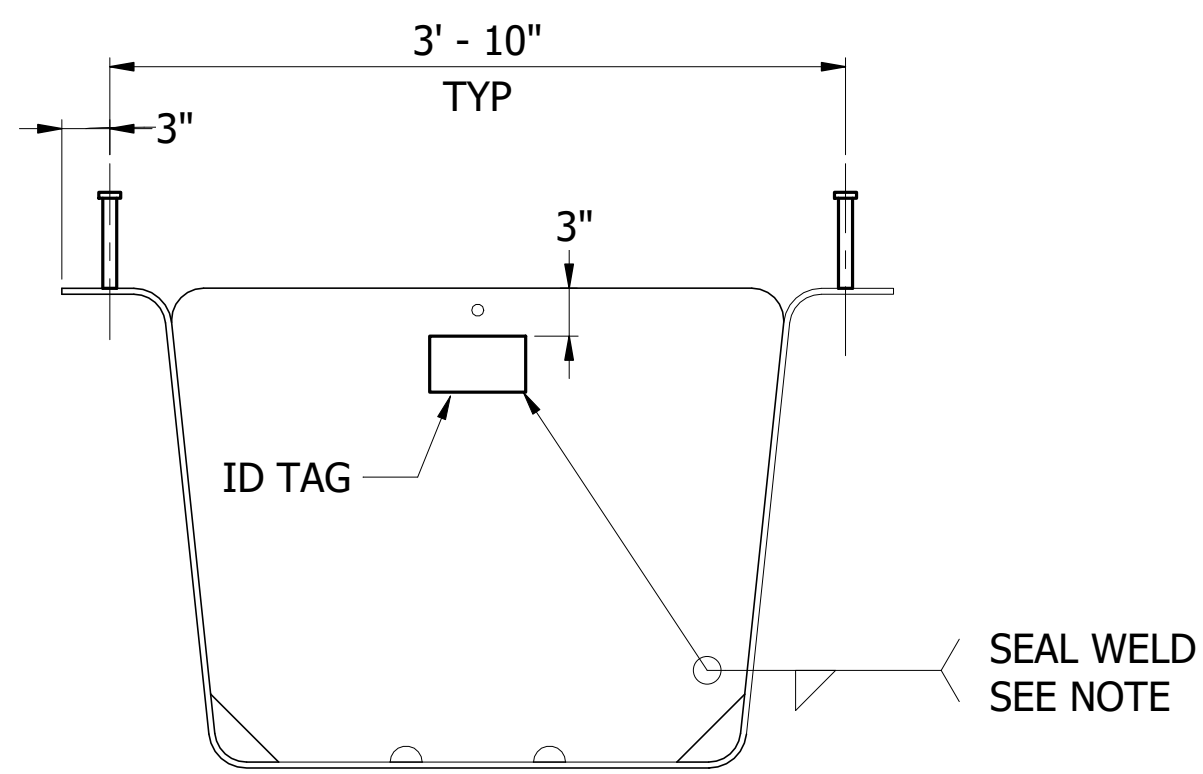
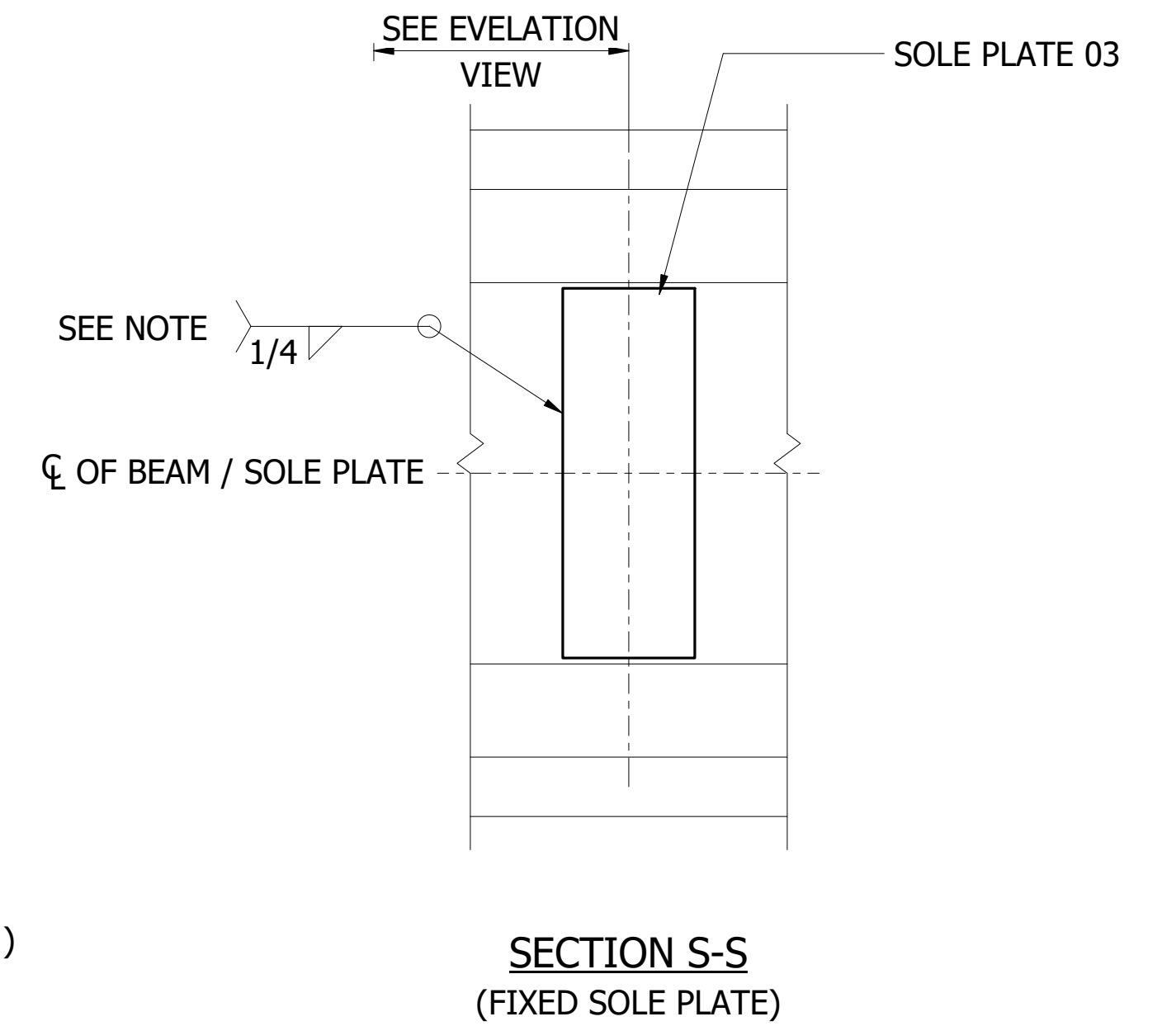
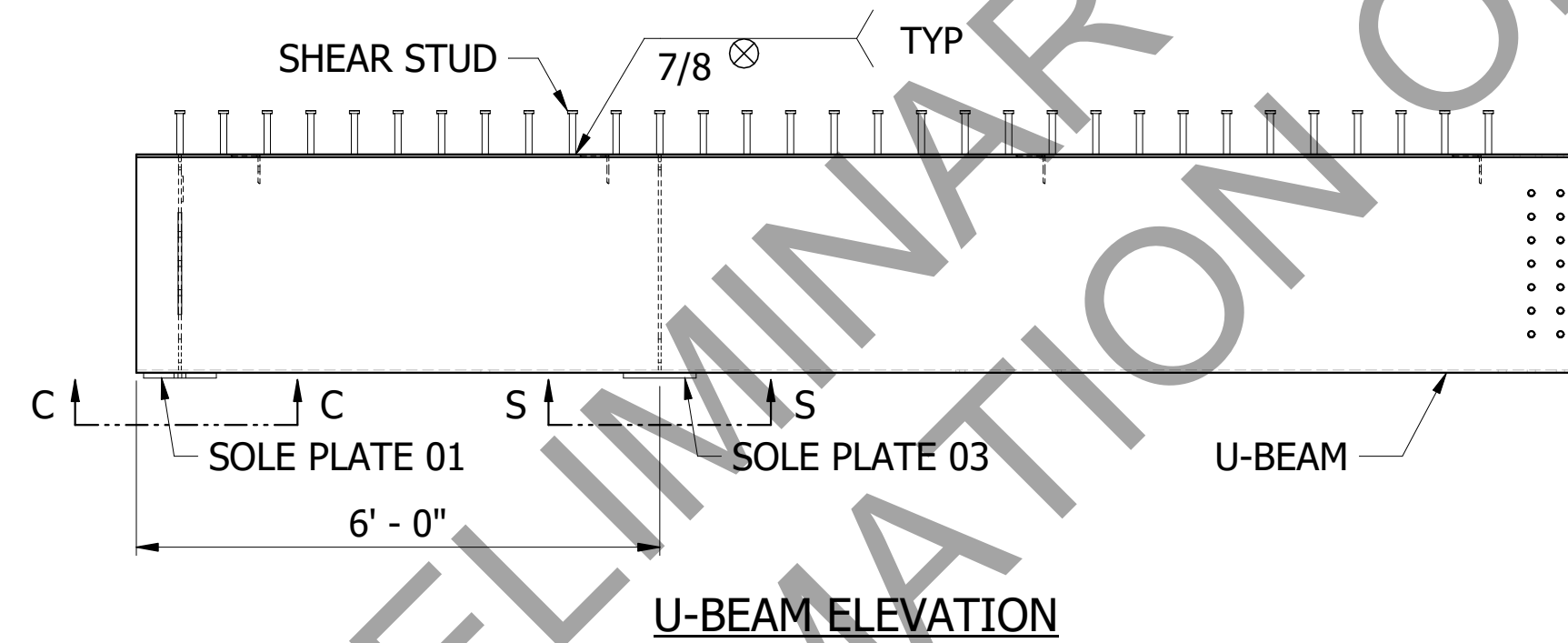
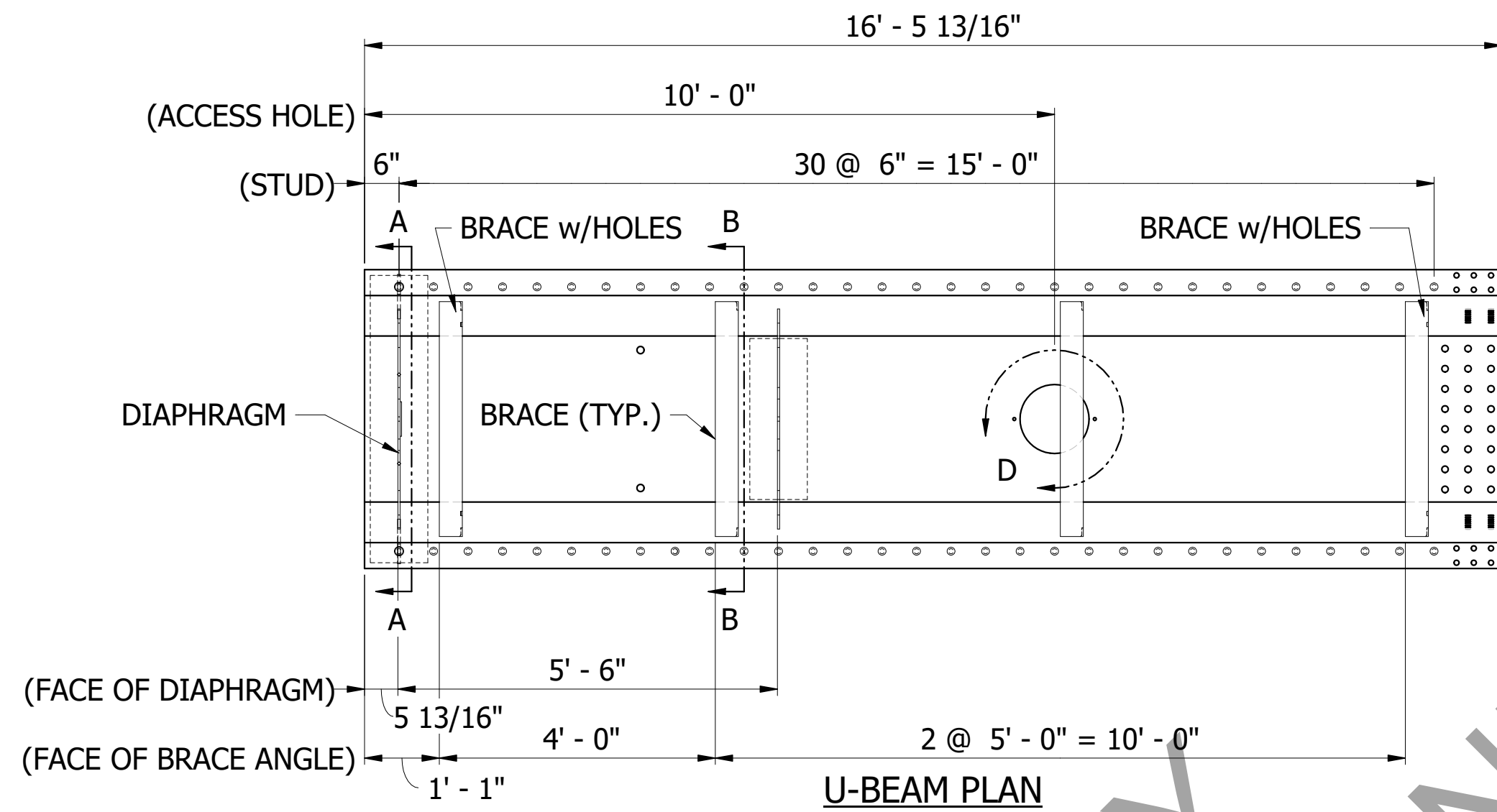
JOB	IMPERIAL CO., CA. DOGWOOD ROAD OVER CENTRAL MAIN CANAL BRIDGE NO: 58C-0226 / COUNTY PROJECT 6222
TITLE	A1-3 SHEET 2

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WELD NOTE:  
- SEE WELDING SECTION ON COVER SHEET FOR WELDING SPECIFICATIONS.

NOTE:  
- REFERENCE FRAMING PLAN DRAWING FOR OVERALL GIRDER ASSEMBLY.

LABEL	DESCRIPTION	QTY PER ASSY
U-BEAM	U30 x 16' - 5 13/16" GIRDER	1
BRACE	L4x4x1/4 x 3'-4 7/8"	2
BRACE w/HOLES	L4x4x1/4 x 3'-4 7/8" w/(2) 3/4"Ø HOLES	2
CONNEX PLATE	PL 1/2" x (6 1/4" / 7 3/4") x 1'-2"	2
DIAPHRAGM	PL 3/8" x 2'-5 5/8" x 3'-2 1/4"	2
SHEAR STUD	7/8"Ø x 6" SHEAR STUD	62
SOLE PLATE 01	PL 3/4" x 10" x 4'-2" w/(2) 1 5/8"Ø & (2) 1/2"Ø HOLES	1
SOLE PLATE 03	PL 3/4" x 10" x 2'-4"	1
TAG	ID TAG	1

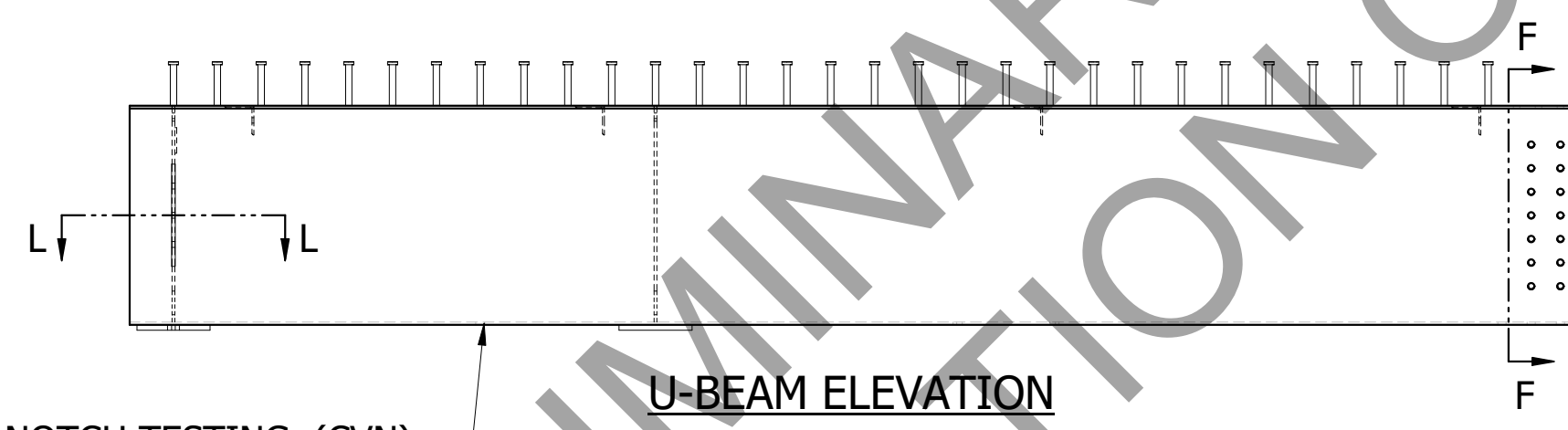
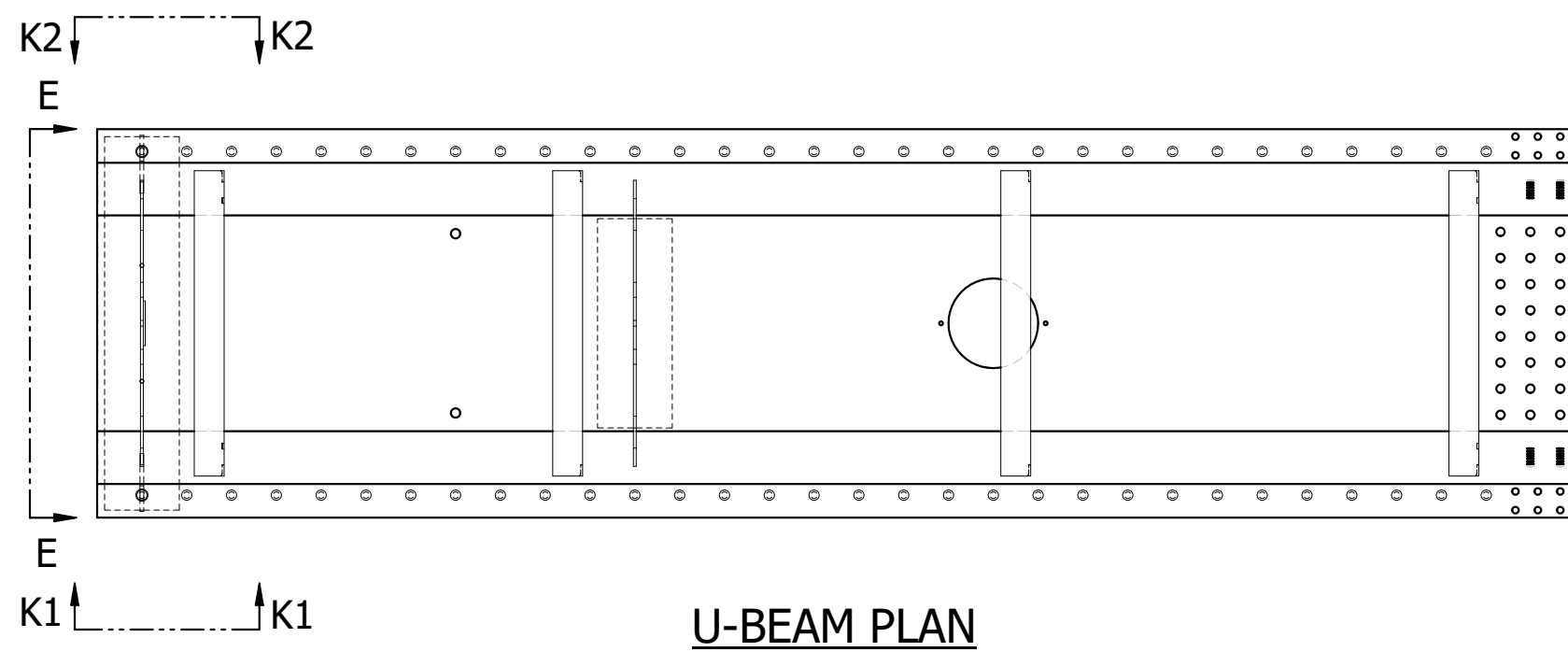
JOB IMPERIAL CO., CA.  
DOGWOOD ROAD OVER CENTRAL MAIN CANAL  
BRIDGE NO: 58C-0226 / COUNTY PROJECT 6222

TITLE B1-1 SHEET 1

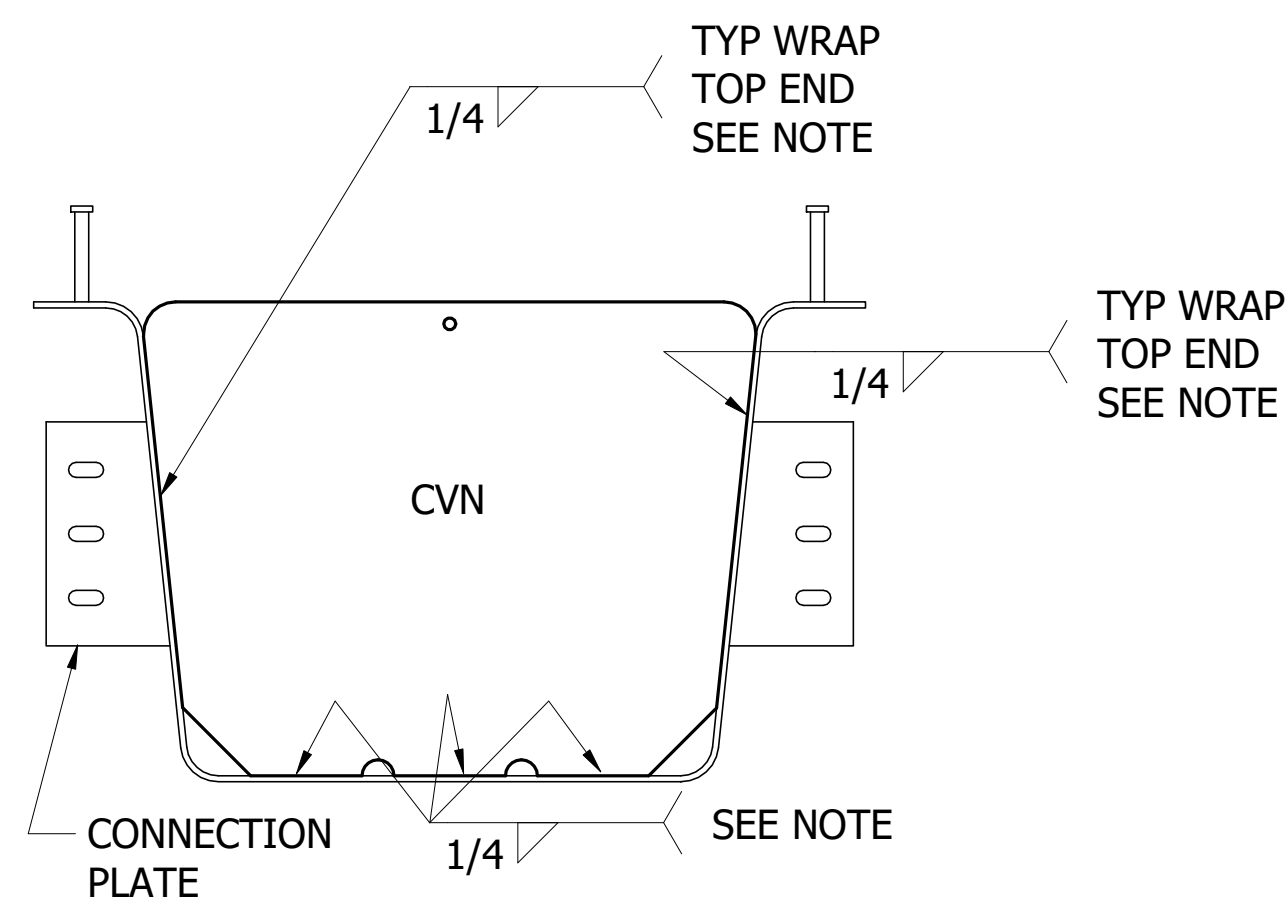
THE DESIGN AND DETAILS CONTAINED IN THESE DRAWINGS ARE BASED ON VALMONT® INDUSTRIES, INC. STANDARD SPECIFICATIONS AND MANUFACTURING PROCESS. THESE DRAWINGS ARE FURNISHED FOR INFORMATION ONLY AND ARE NOT PROJECT SPECIFIC DESIGNS.



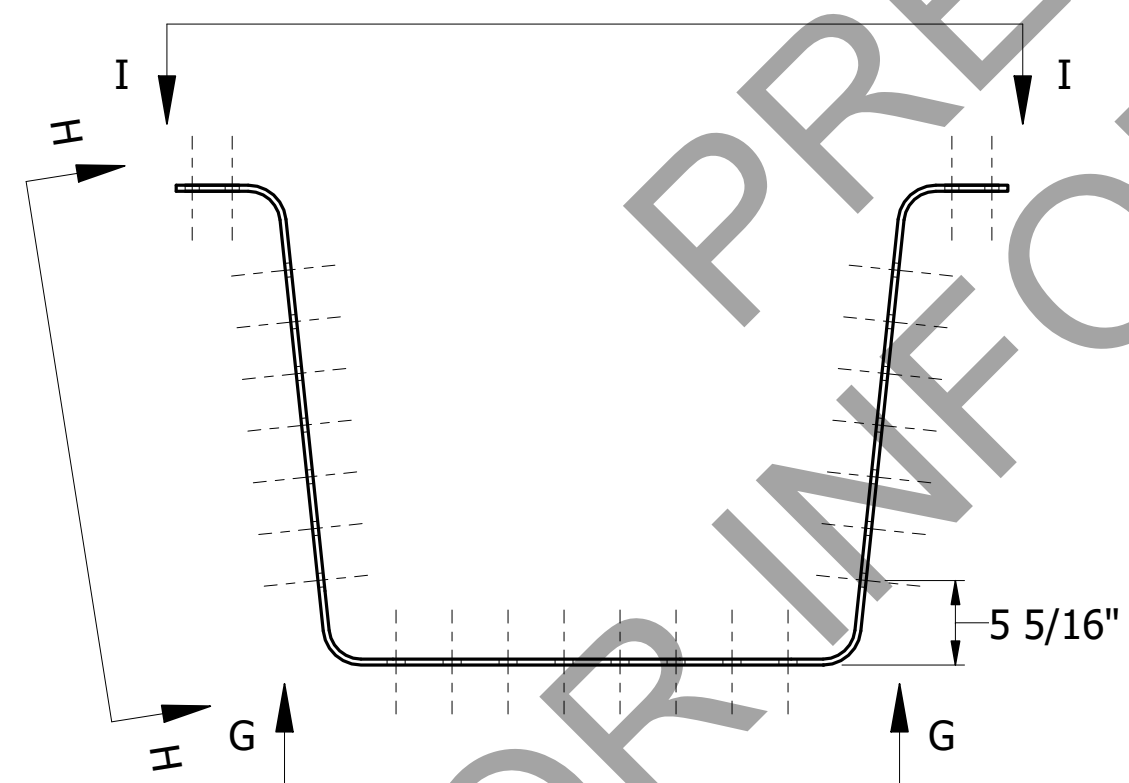
ORDER NUMBER: 529039-P1  
PAGE NUMBER: 9 OF 53  
DRAWING NUMBER: 529039P1  
REV



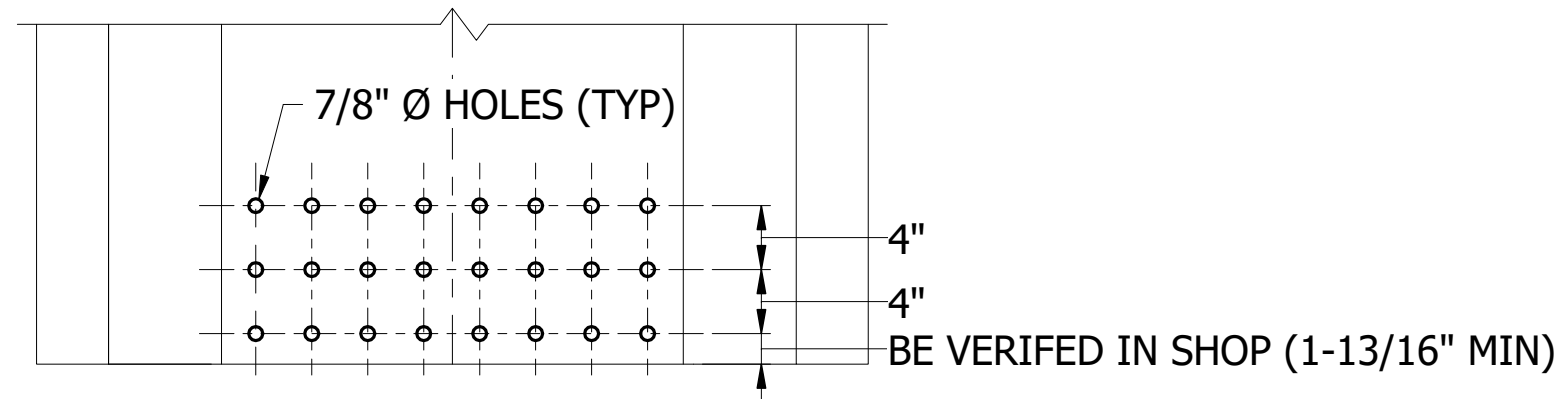
U-BEAM REQUIRES CHARPY V-NOTCH TESTING. (CVN)



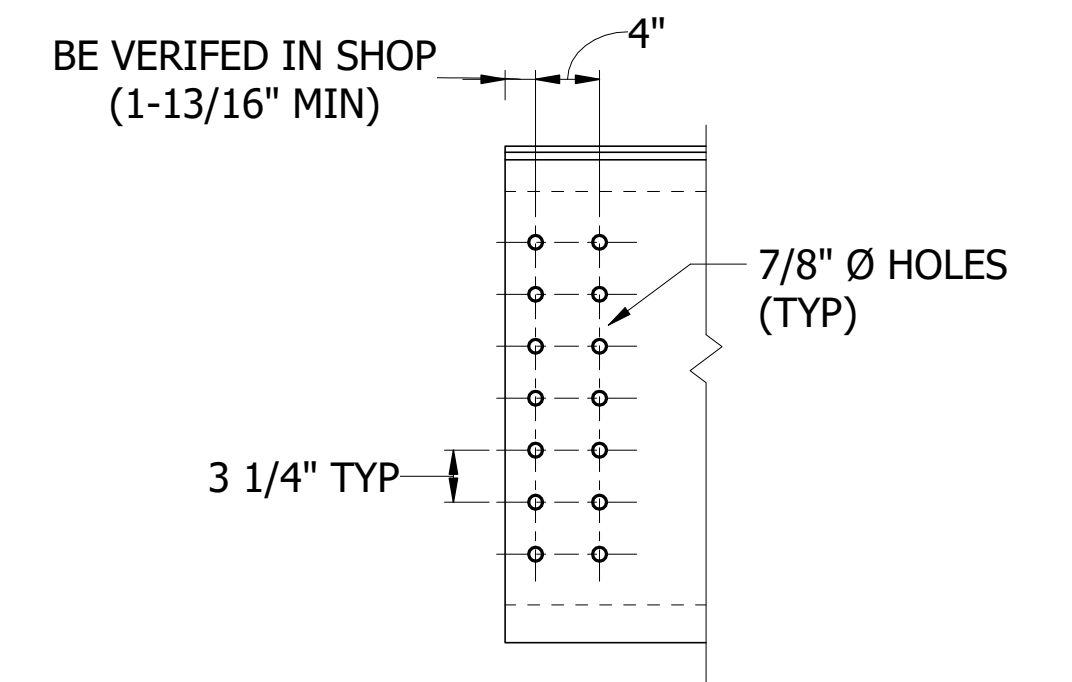
WELD DIAPHRAGM ON OUTSIDE ONLY (TYP)  
(LOOKING NORMAL TO DIAPHRAGM  
AND CONNECTION PLATES)



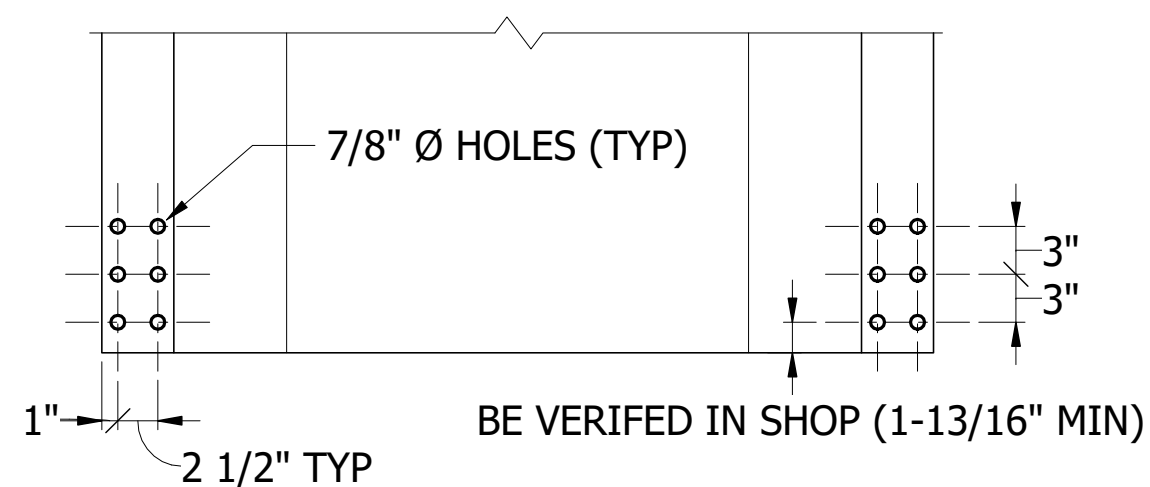
SECTION F-F



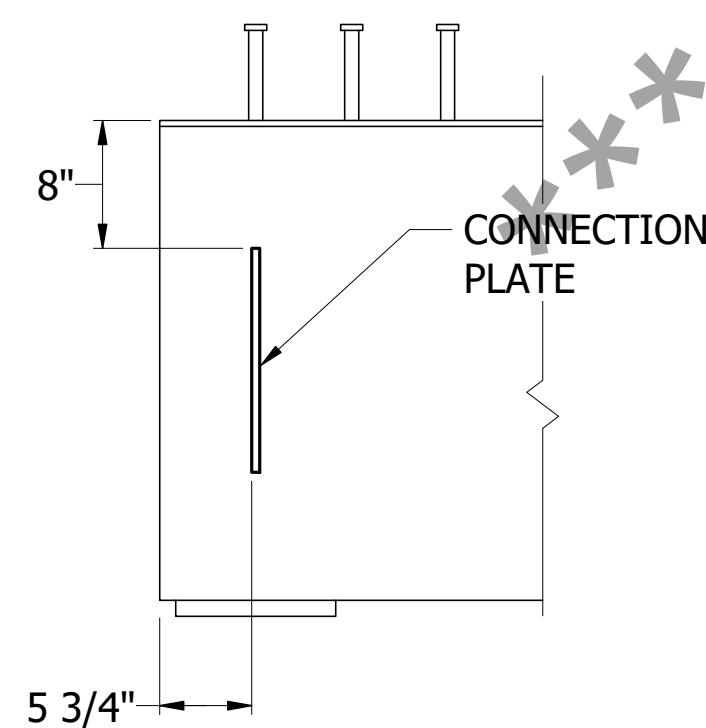
SECTION G-G



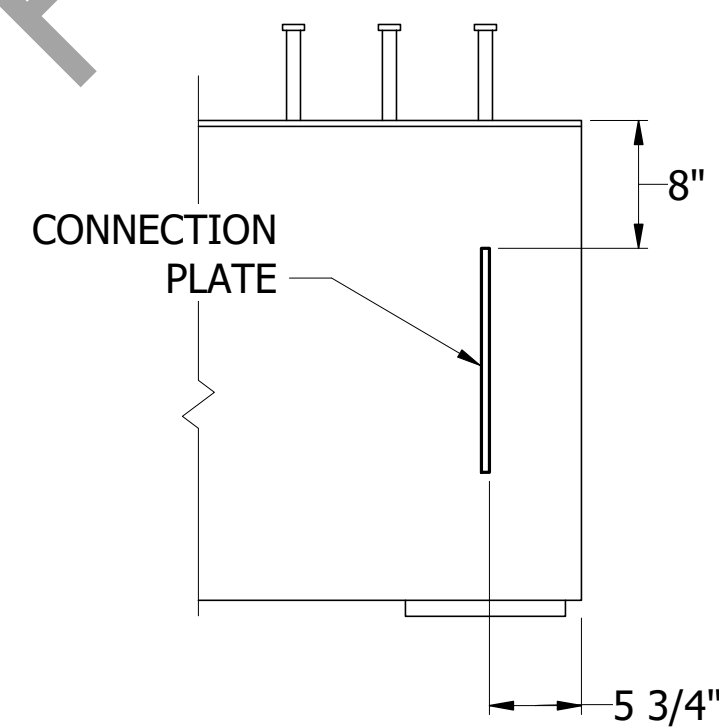
SECTION H-H



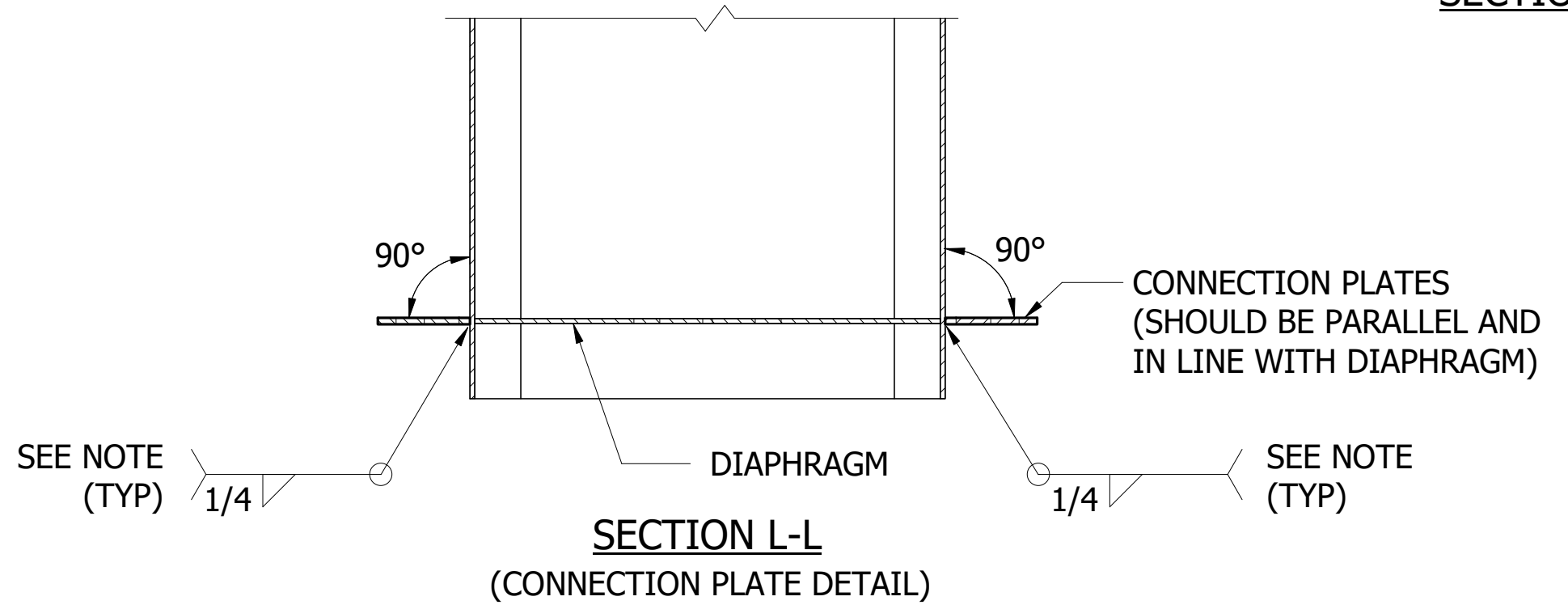
SECTION I-I



SECTION K1-K1



SECTION K2-K2



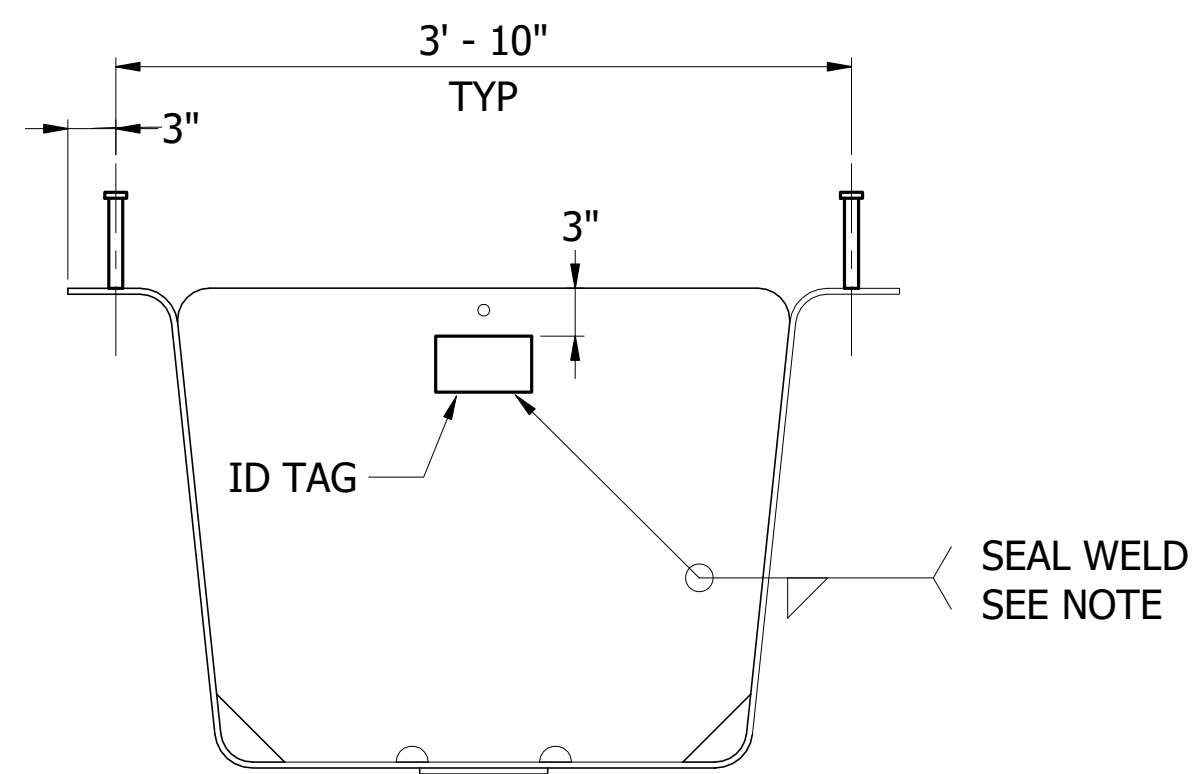
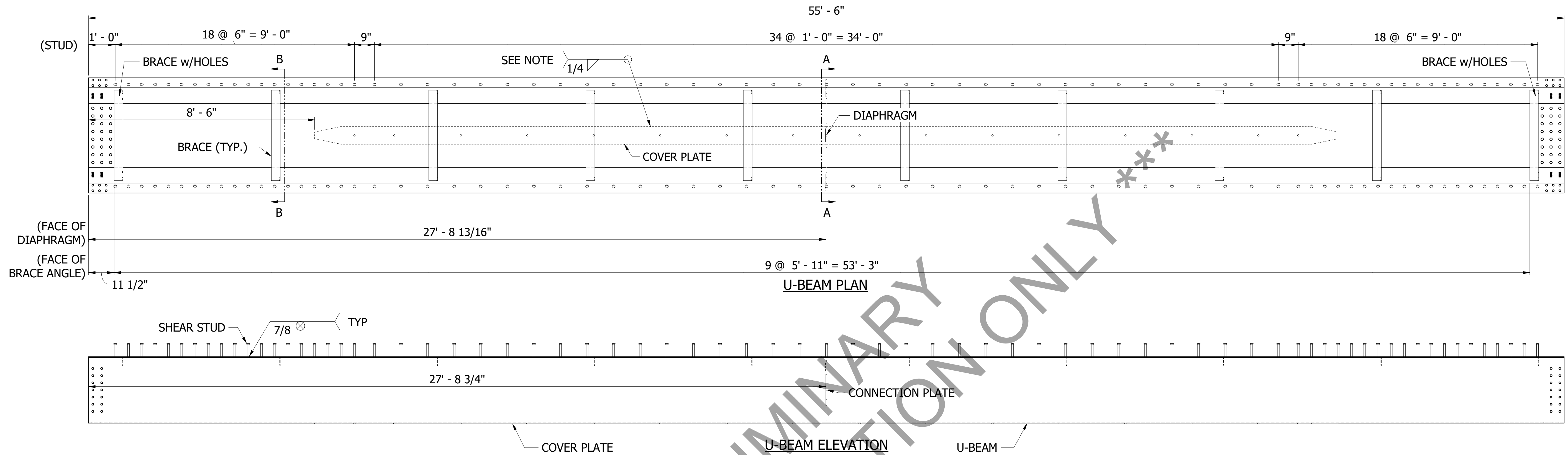
JOB IMPERIAL CO., CA.  
DOGWOOD ROAD OVER CENTRAL MAIN CANAL  
BRIDGE NO: 58C-0226 / COUNTY PROJECT 6222

TITLE B1-1 SHEET 2

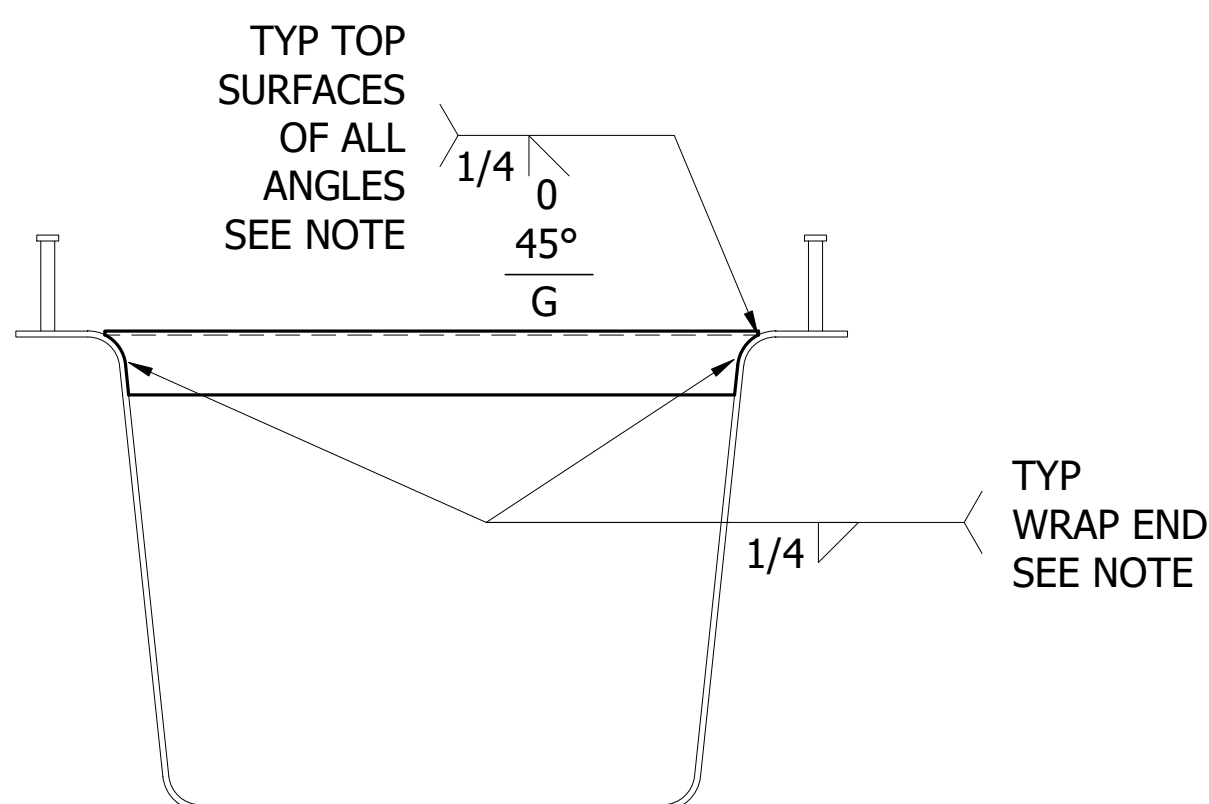
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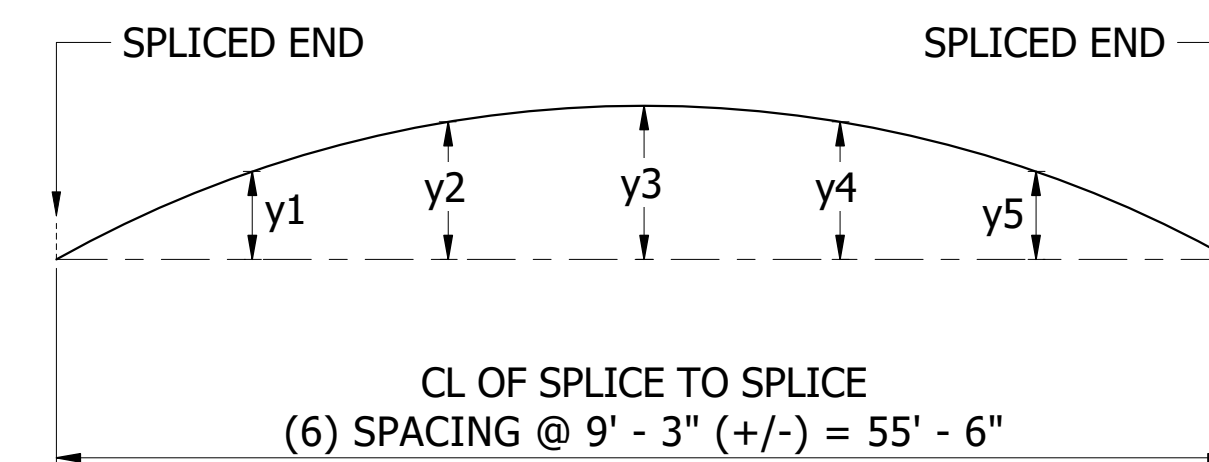
ORDER NUMBER: 529039-P1  
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**SECTION A-A**  
(CONNECTION PLATES ARE NOT SHOWN FOR CLARITY.)



**SECTION B-B**



**CAMBER DIAGRAM**

CAMBER ORDINATES	U-BEAM B1-2
y1	1 7/8"
y2	2 15/16"
y3	3 5/16"
y4	2 15/16"
y5	1 7/8"

**WELD NOTE:**  
- SEE WELDING SECTION ON COVER SHEET FOR WELDING SPECIFICATIONS.

**NOTE:**  
- REFERENCE FRAMING PLAN DRAWING FOR OVERALL GIRDER ASSEMBLY.

LABEL	DESCRIPTION	QTY PER ASSY
U-BEAM	U30 x 55' - 6" GIRDER	1
BRACE	L4x4x1/4 x 3' - 4 7/8"	8
BRACE w/HOLES	L4x4x1/4 x 3' - 4 7/8" w/(2) 3/4"Ø HOLES	2
CONNEX PLATE	PL 1/2" x (6 1/4" / 7 3/4") x 1'-2"	2
COVER PLATE	PL 3/8" x 8" x 38' - 6"	1
DIAPHRAGM	PL 3/8" x 2'-5 5/8" x 3'-2 1/4"	1
SHEAR STUD	7/8"Ø x 6" SHEAR STUD	146
TAG	ID TAG	1

JOB IMPERIAL CO., CA.  
DOGWOOD ROAD OVER CENTRAL MAIN CANAL  
BRIDGE NO: 58C-0226 / COUNTY PROJECT 6222

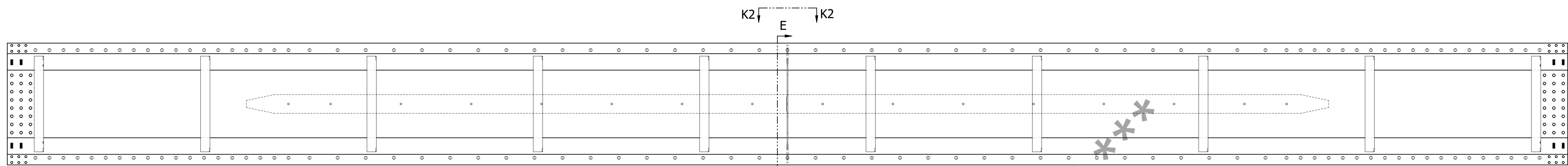
TITLE B1-2 SHEET 1

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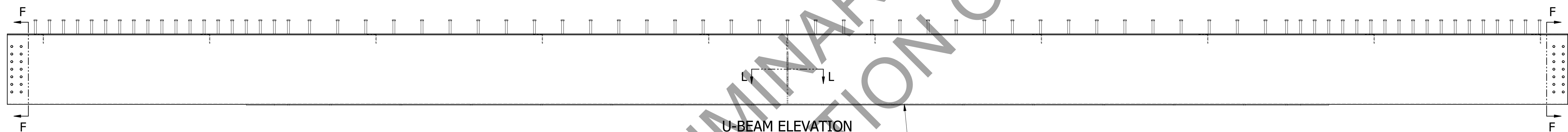


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\*\*\* PRELIMINARY FOR INFORMATION ONLY \*\*\*

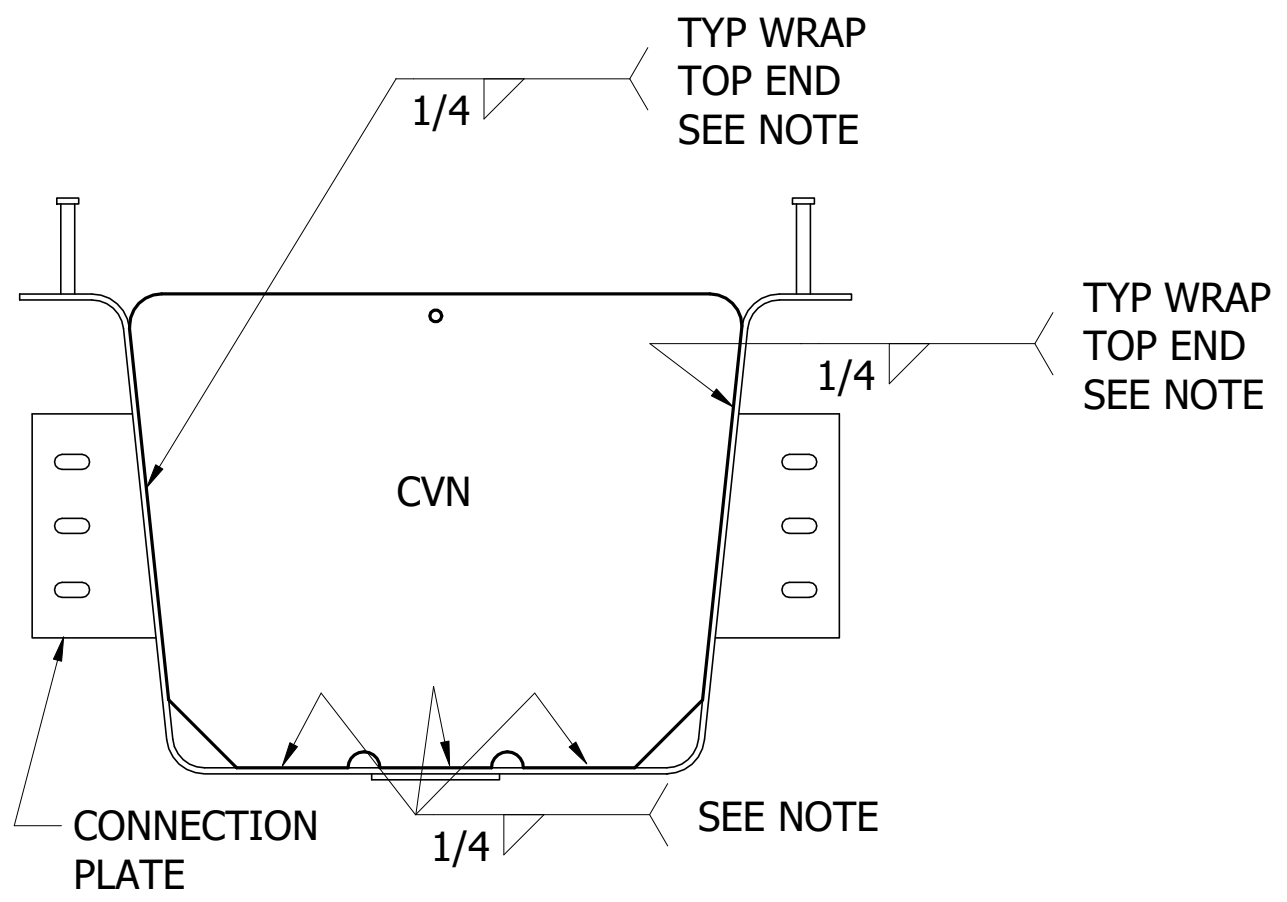


U-BEAM PLAN



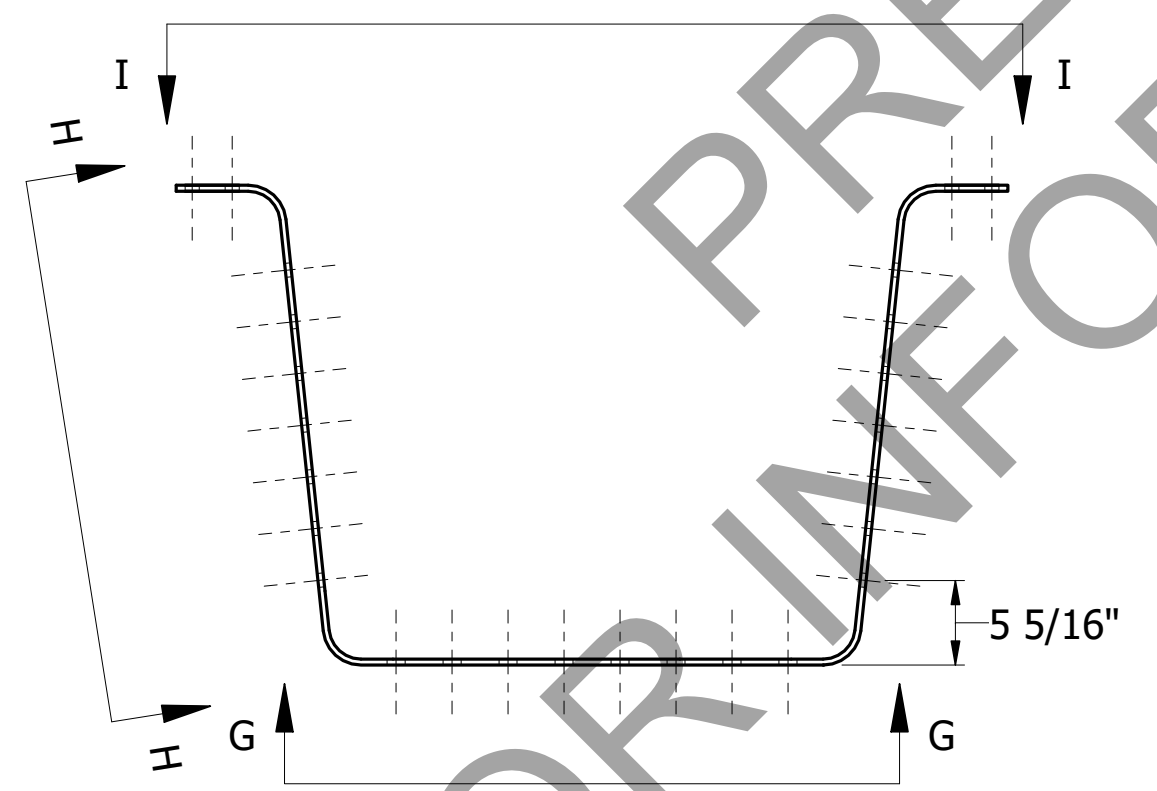
U-BEAM ELEVATION

U-BEAM REQUIRES CHARPY V-NOTCH TESTING. (CVN)

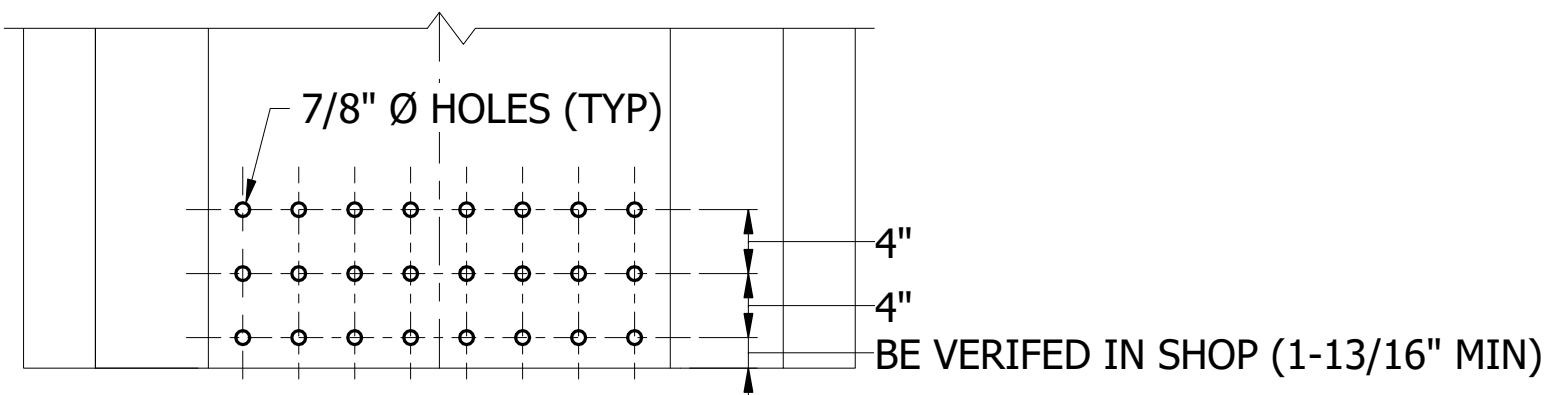


SECTION E-E

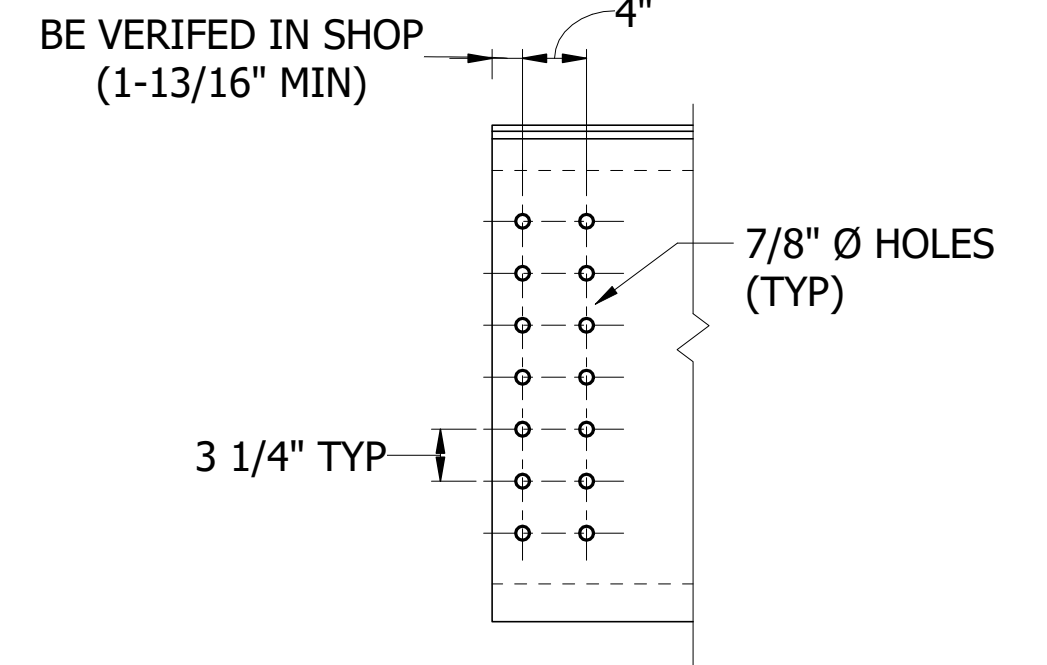
WELD DIAPHRAGM ON OUTSIDE ONLY (TYP)  
(LOOKING NORMAL TO DIAPHRAGM AND CONNECTION PLATES)



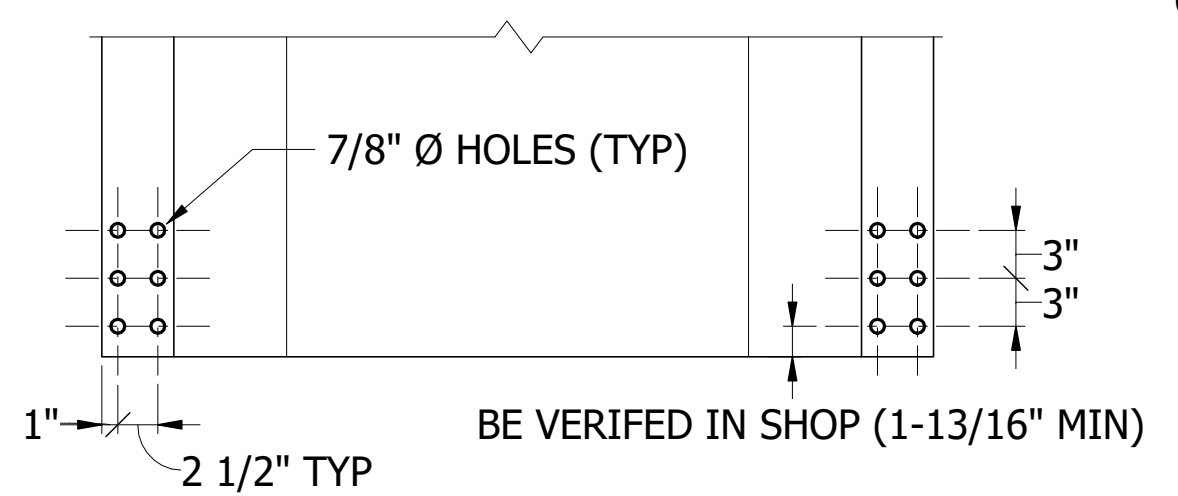
SECTION F-F



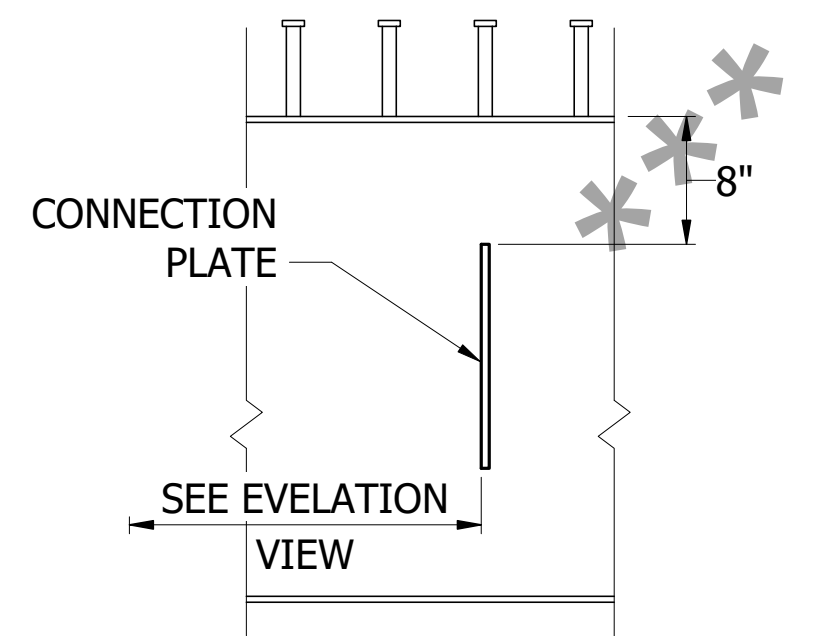
SECTION G-G



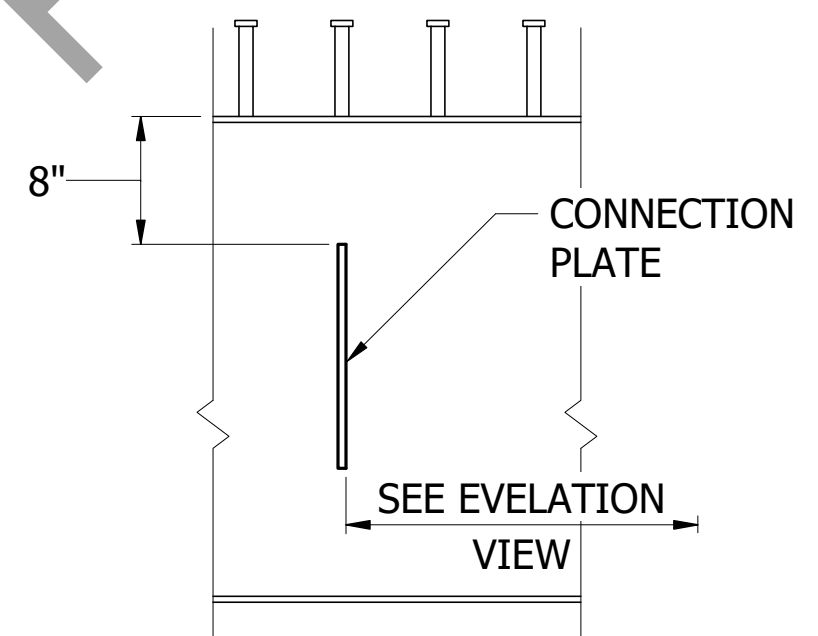
SECTION H-H



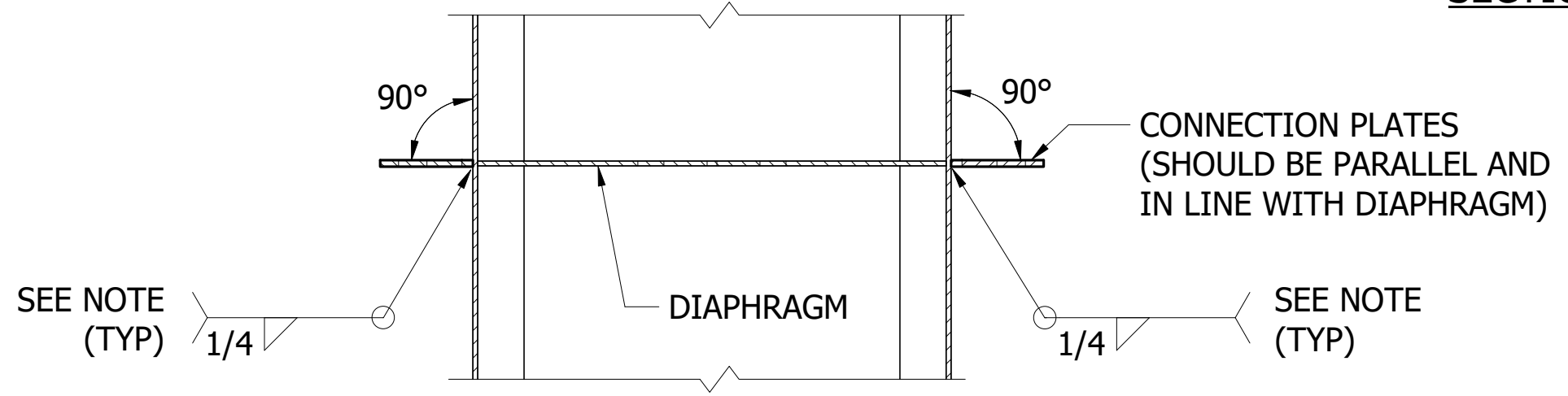
SECTION I-I



SECTION K1-K1



SECTION K2-K2



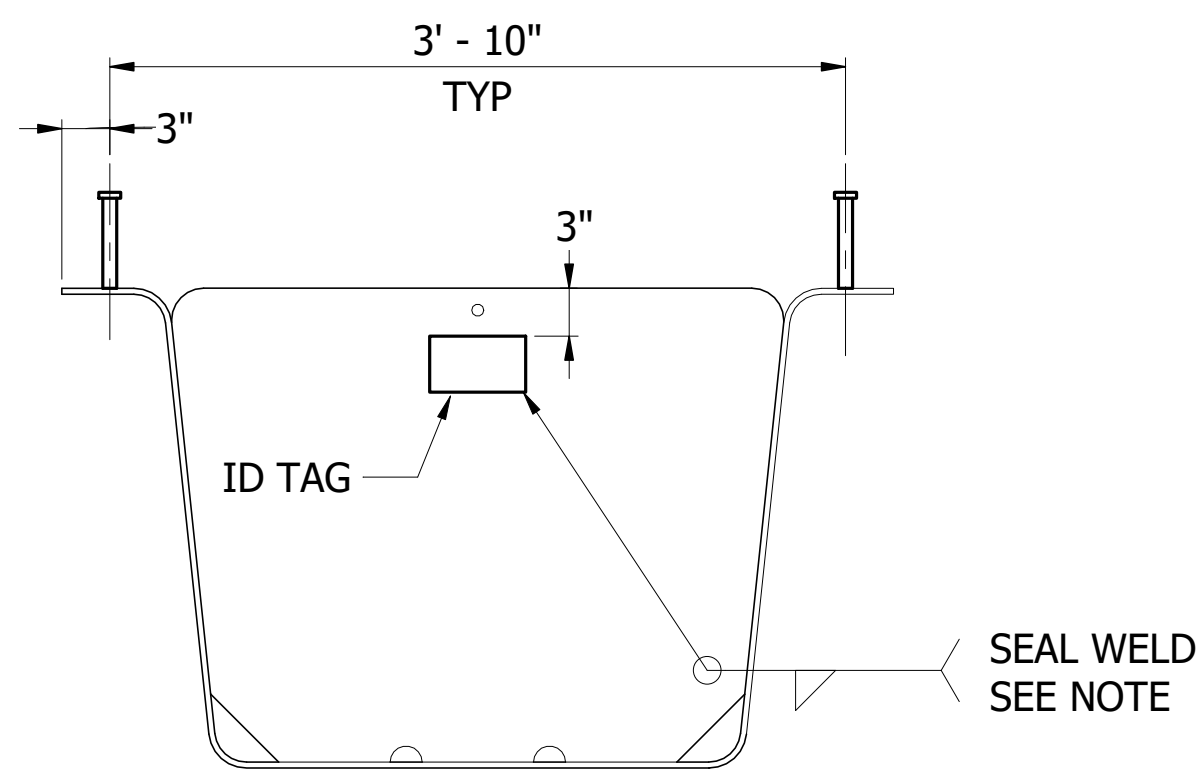
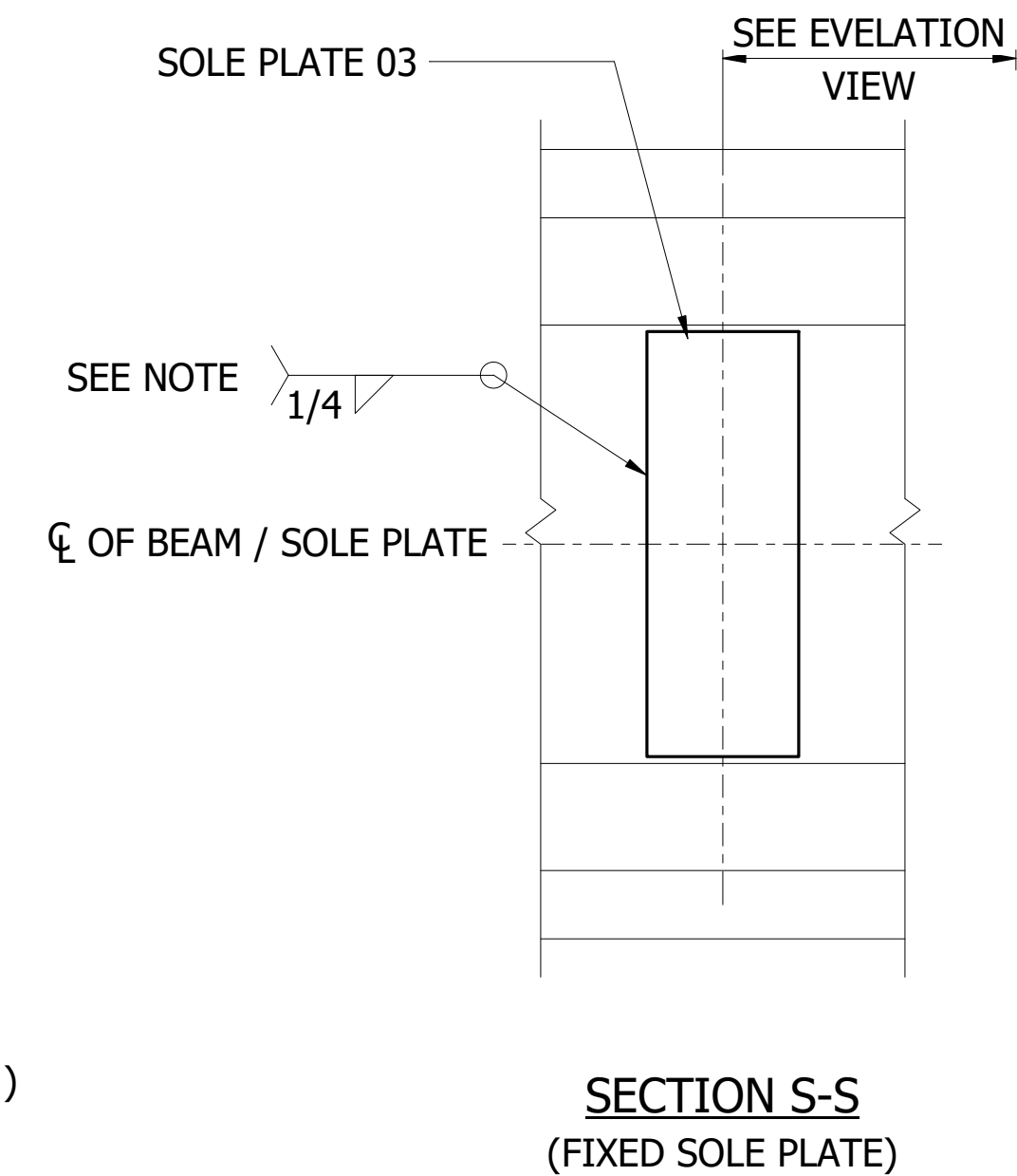
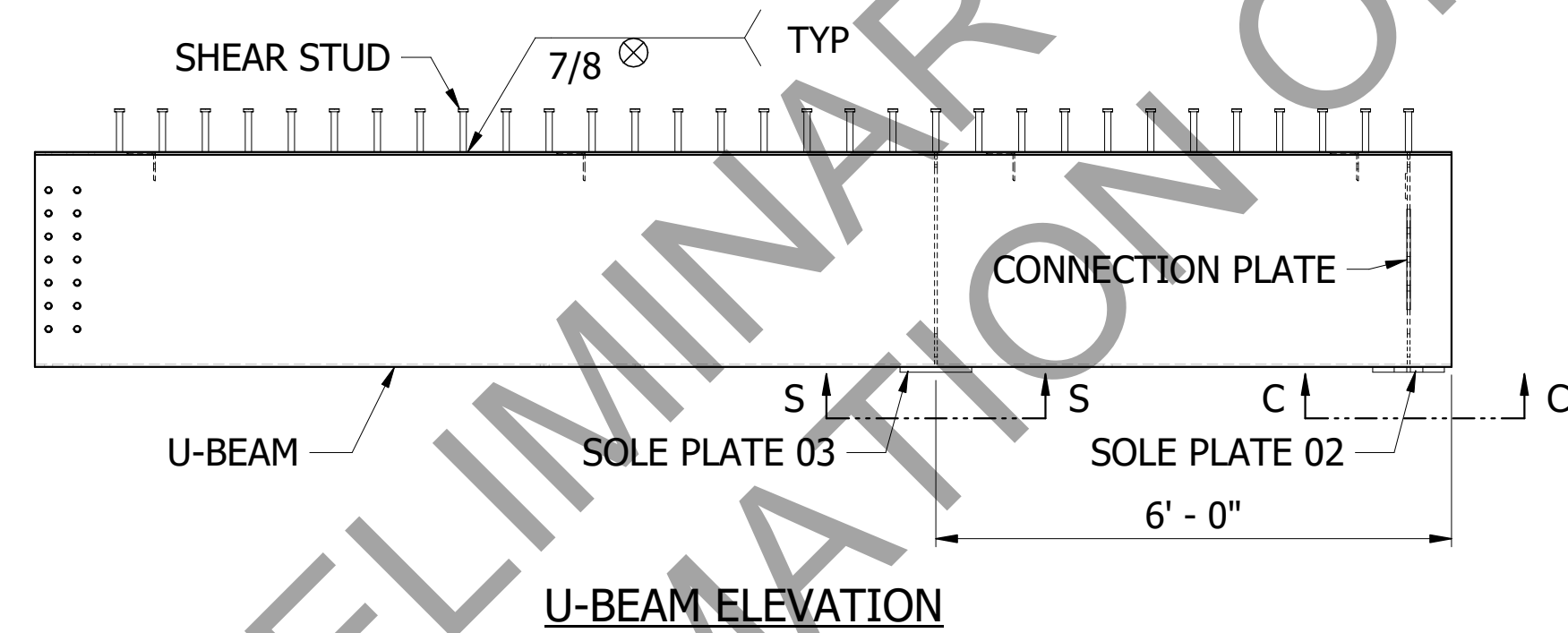
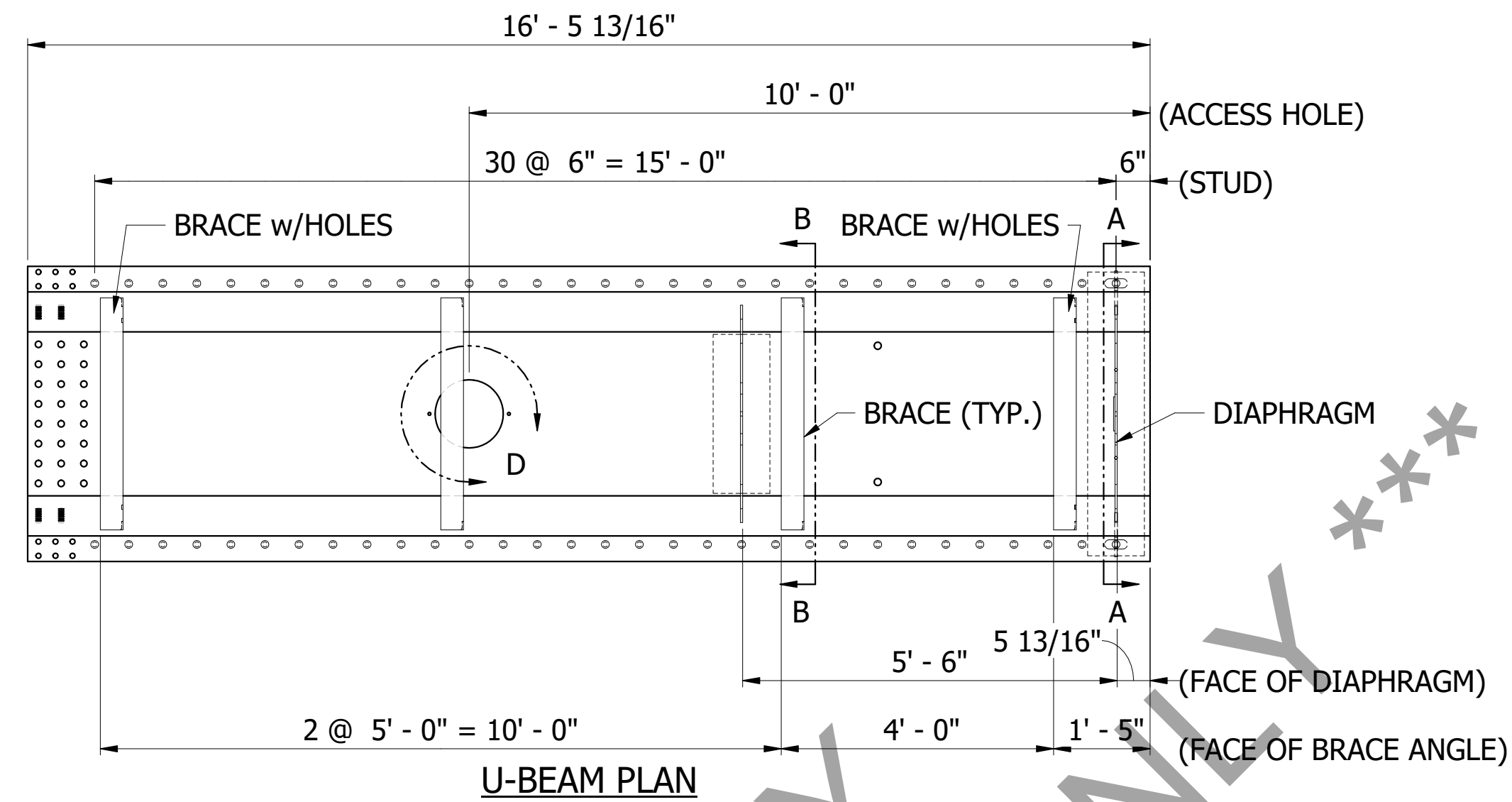
SECTION L-L  
(CONNECTION PLATE DETAIL)

JOB	IMPERIAL CO., CA. DOGWOOD ROAD OVER CENTRAL MAIN CANAL BRIDGE NO: 58C-0226 / COUNTY PROJECT 6222
TITLE	B1-2 SHEET 2

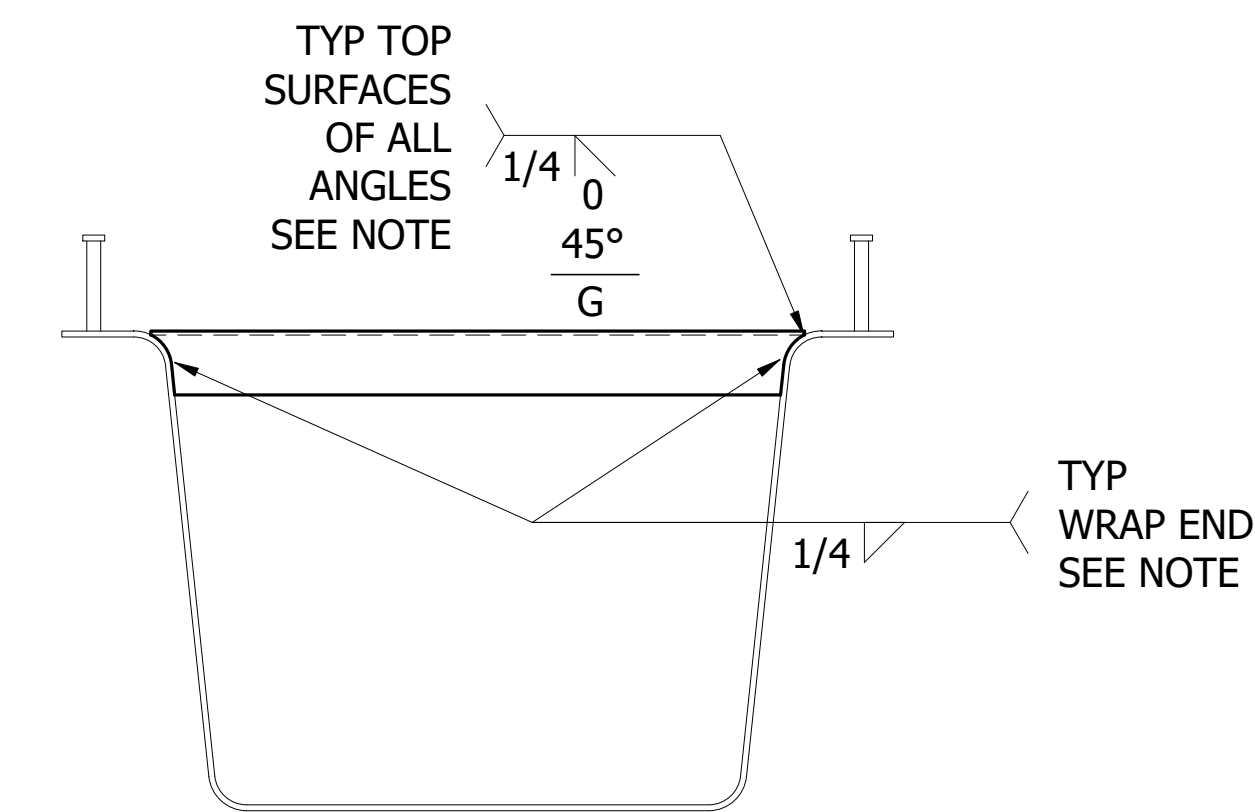
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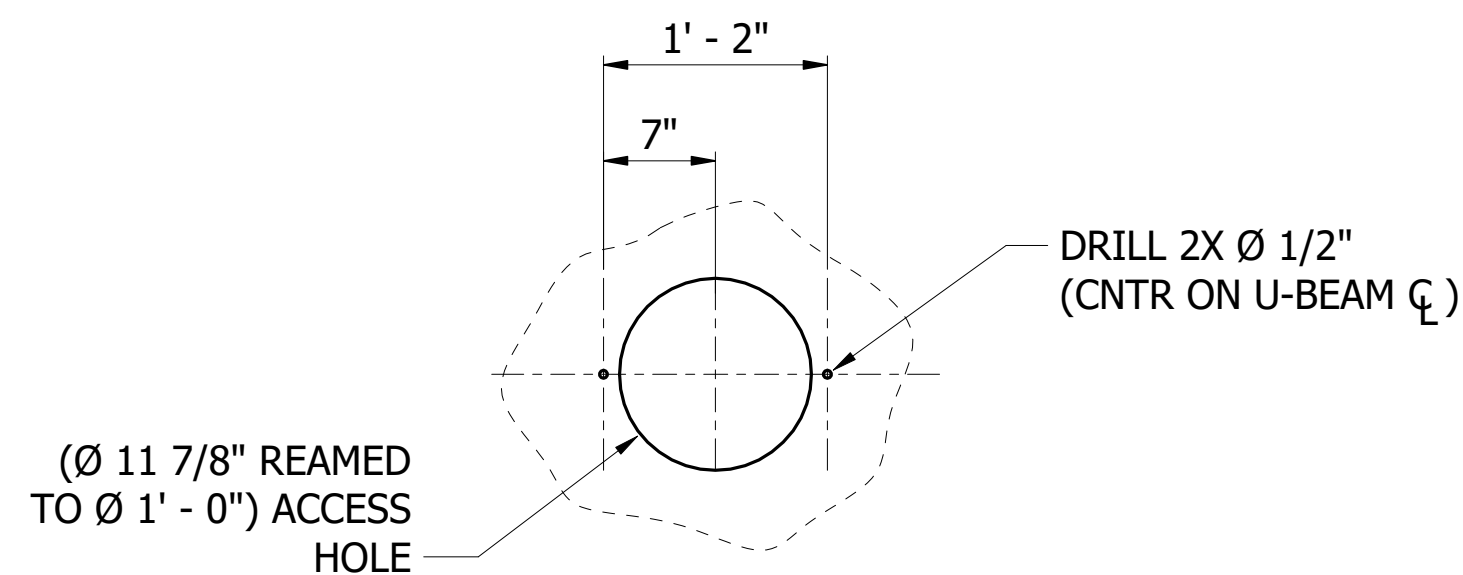
ORDER NUMBER:	529039-P1
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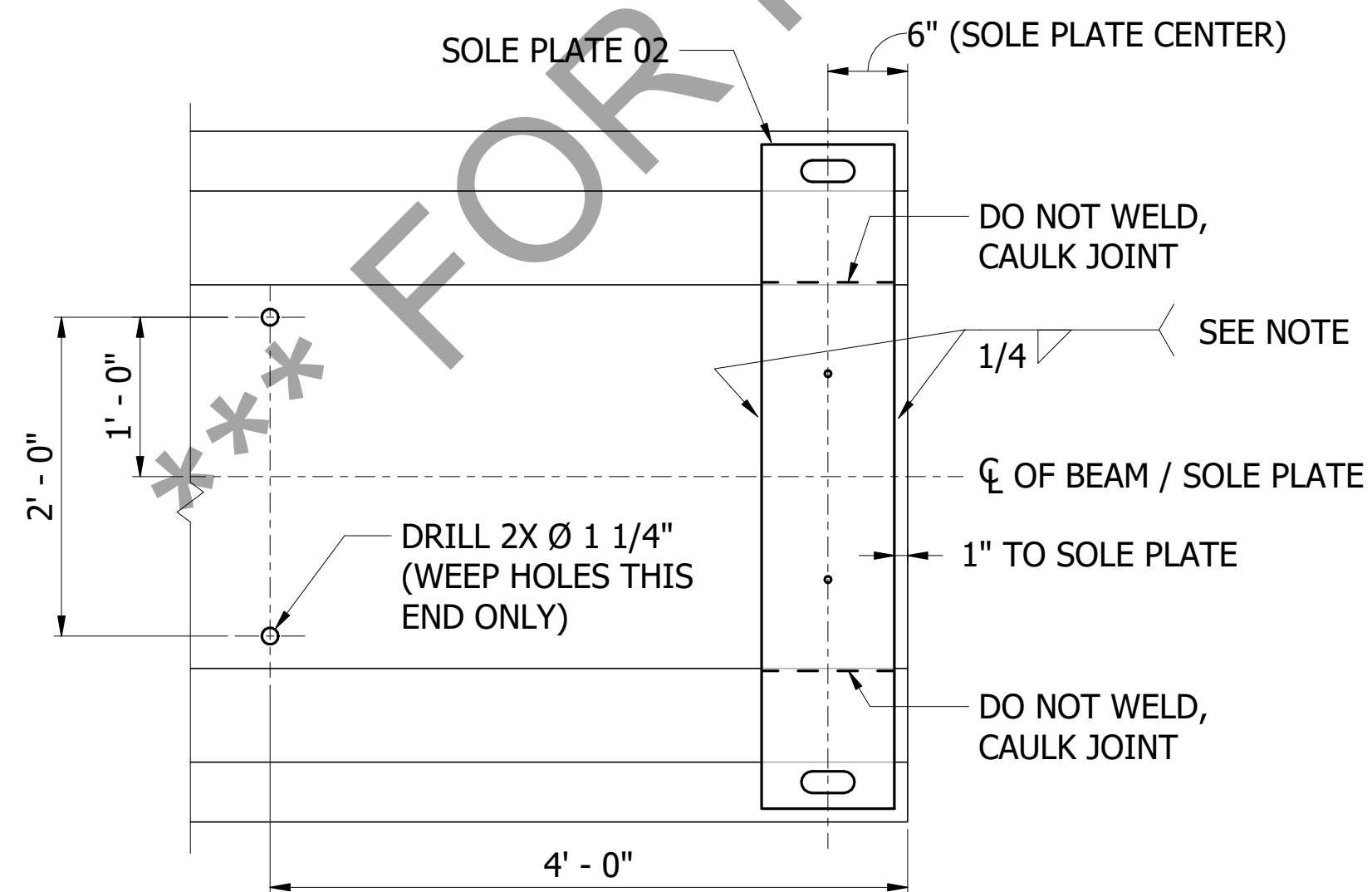
**SECTION A-A**  
(CONNECTION PLATES ARE NOT SHOWN FOR CLARITY.)



**SECTION B-B**



**DETAIL D**



**SECTION C-C**  
(EXP. SOLE PLATE)

**WELD NOTE:**  
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**NOTE:**  
- REFERENCE FRAMING PLAN DRAWING FOR OVERALL GIRDER ASSEMBLY.

LABEL	DESCRIPTION	QTY PER ASSY
U-BEAM	U30 x 16' - 5 13/16" GIRDER	1
BRACE	L4x4x1/4 x 3'-4 7/8"	2
BRACE w/HOLES	L4x4x1/4 x 3'-4 7/8" w/(2) 3/4"Ø HOLES	2
CONNEX PLATE	PL 1/2" x (6 1/4" / 7 3/4") x 1'-2"	2
DIAPHRAGM	PL 3/8" x 2'-5 5/8" x 3'-2 1/4"	2
SHEAR STUD	7/8"Ø x 6" SHEAR STUD	62
SOLE PLATE 02	PL 3/4" x 10" x 4'-2" w/(2) 1/2"Ø HOLES & (2) 1 5/8"Ø x 4" SLOTTED HOLES	1
SOLE PLATE 03	PL 3/4" x 10" x 2'-4"	1
TAG	ID TAG	1

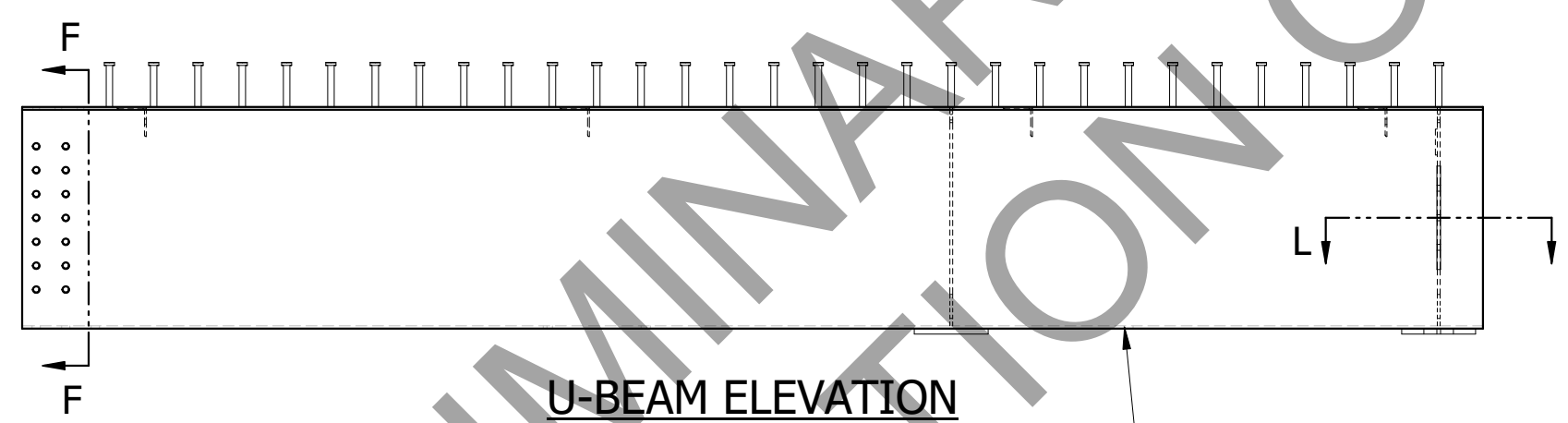
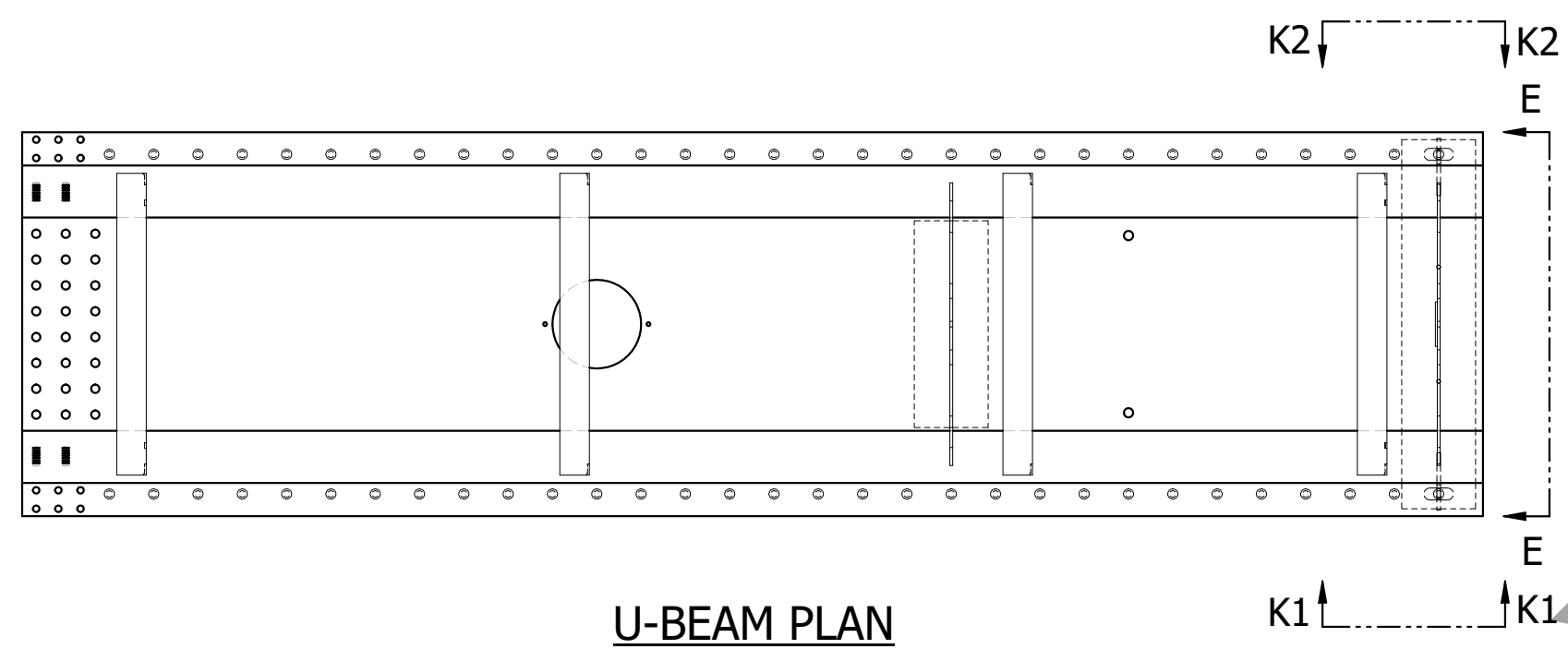
JOB IMPERIAL CO., CA.  
DOGWOOD ROAD OVER CENTRAL MAIN CANAL  
BRIDGE NO: 58C-0226 / COUNTY PROJECT 6222

TITLE B1-3 SHEET 1

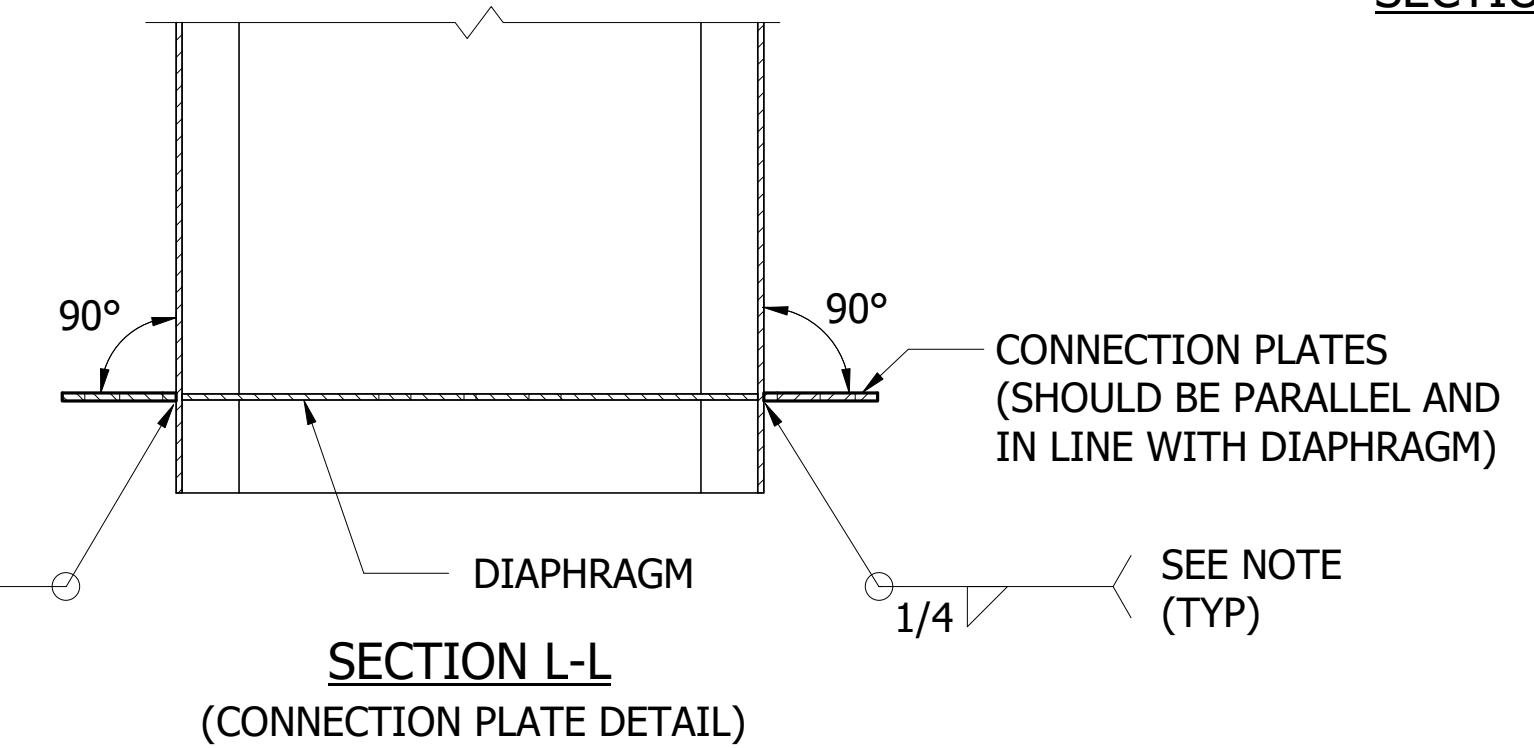
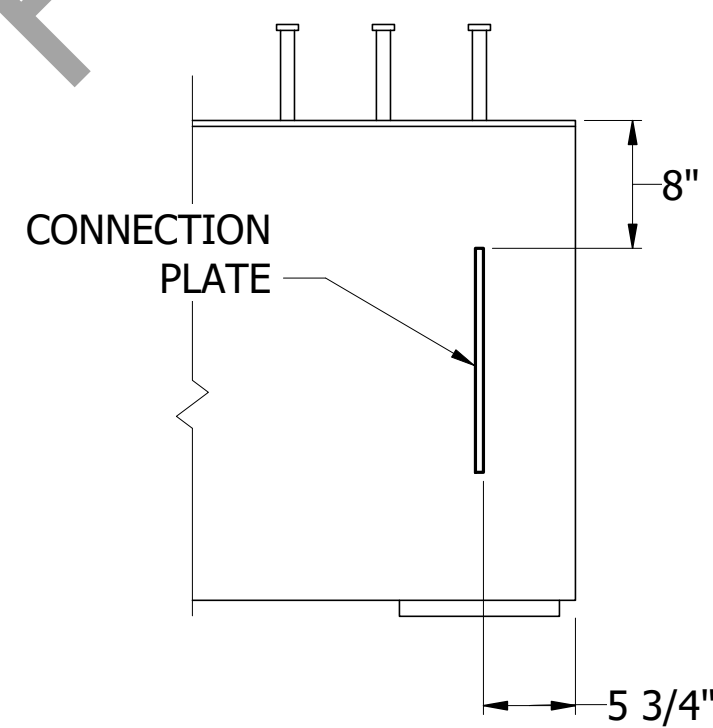
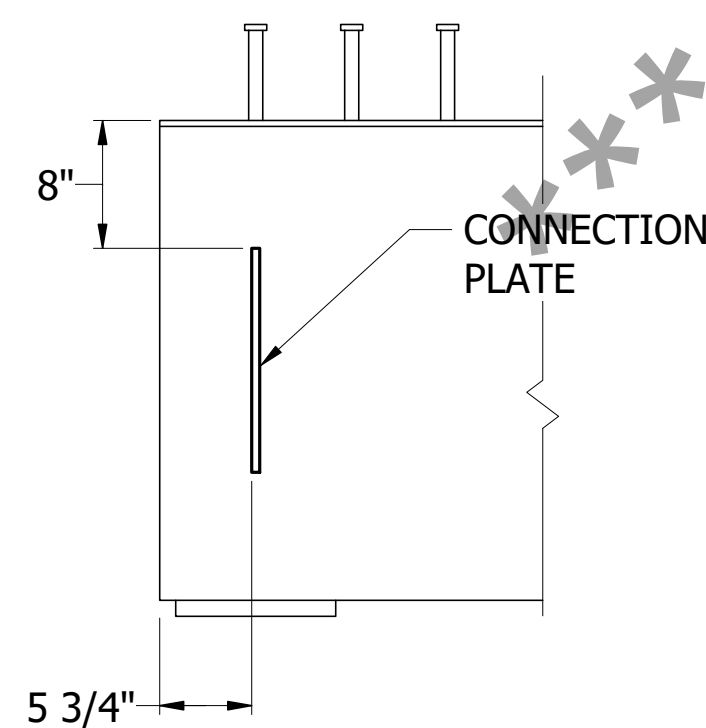
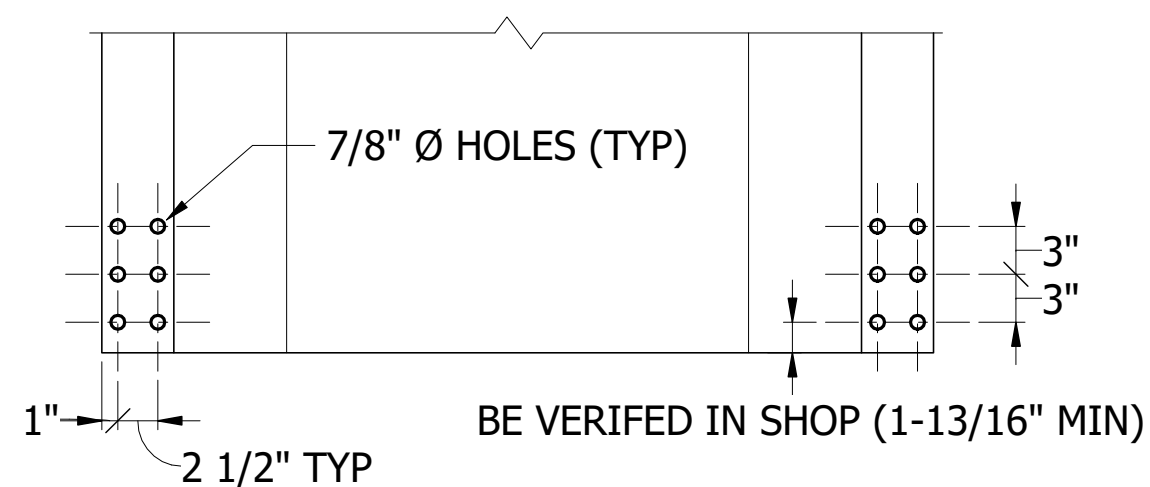
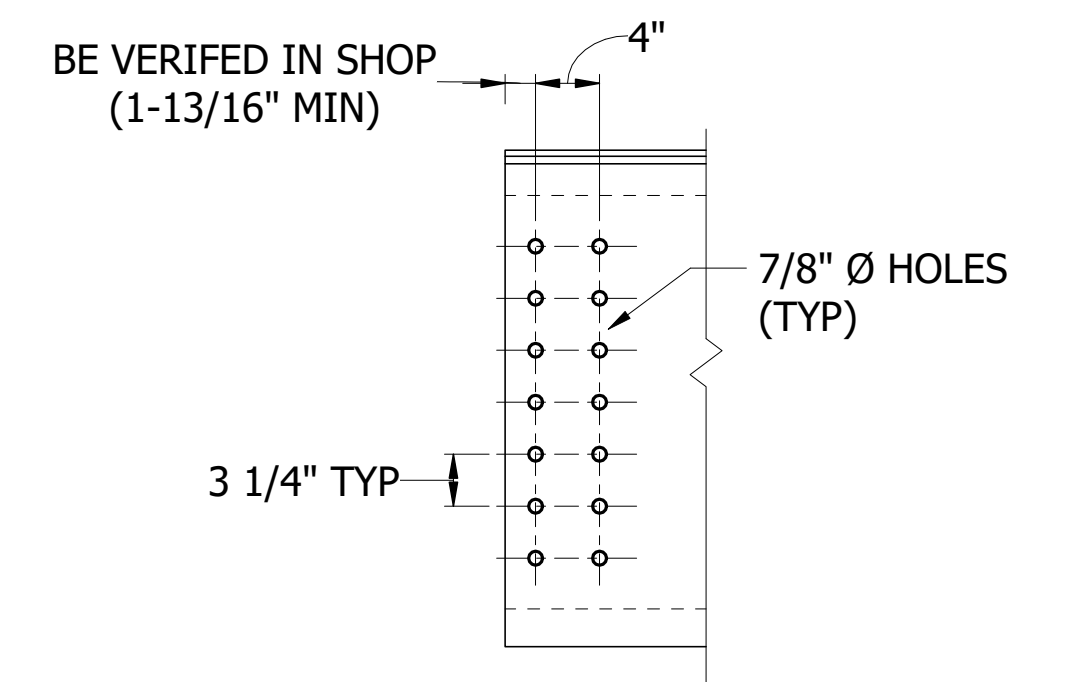
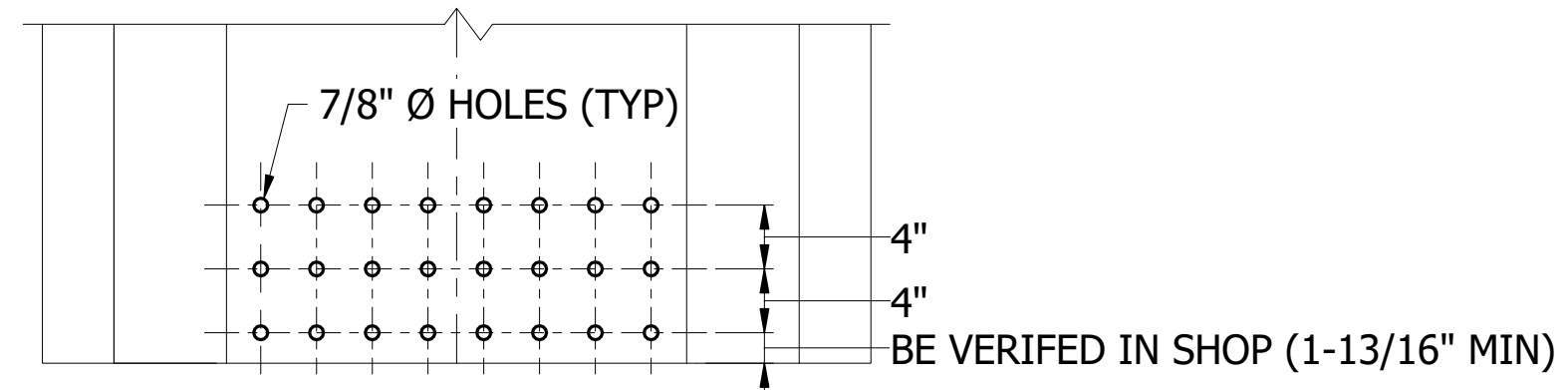
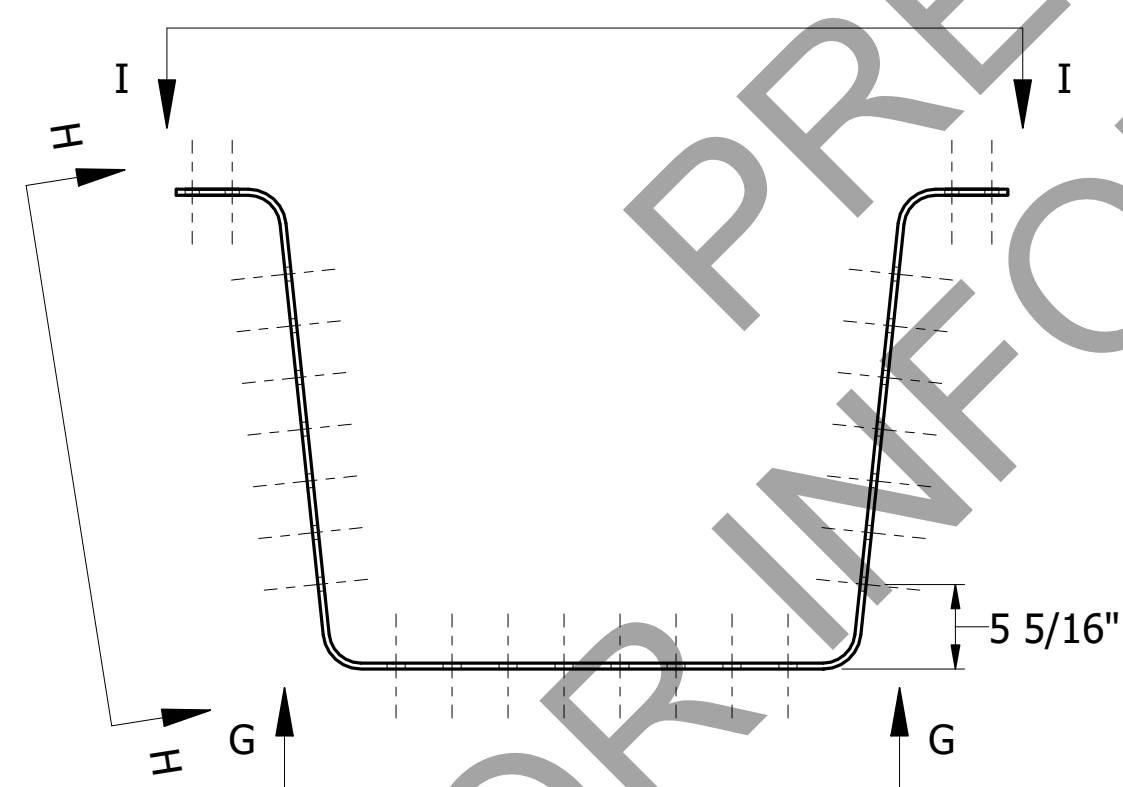
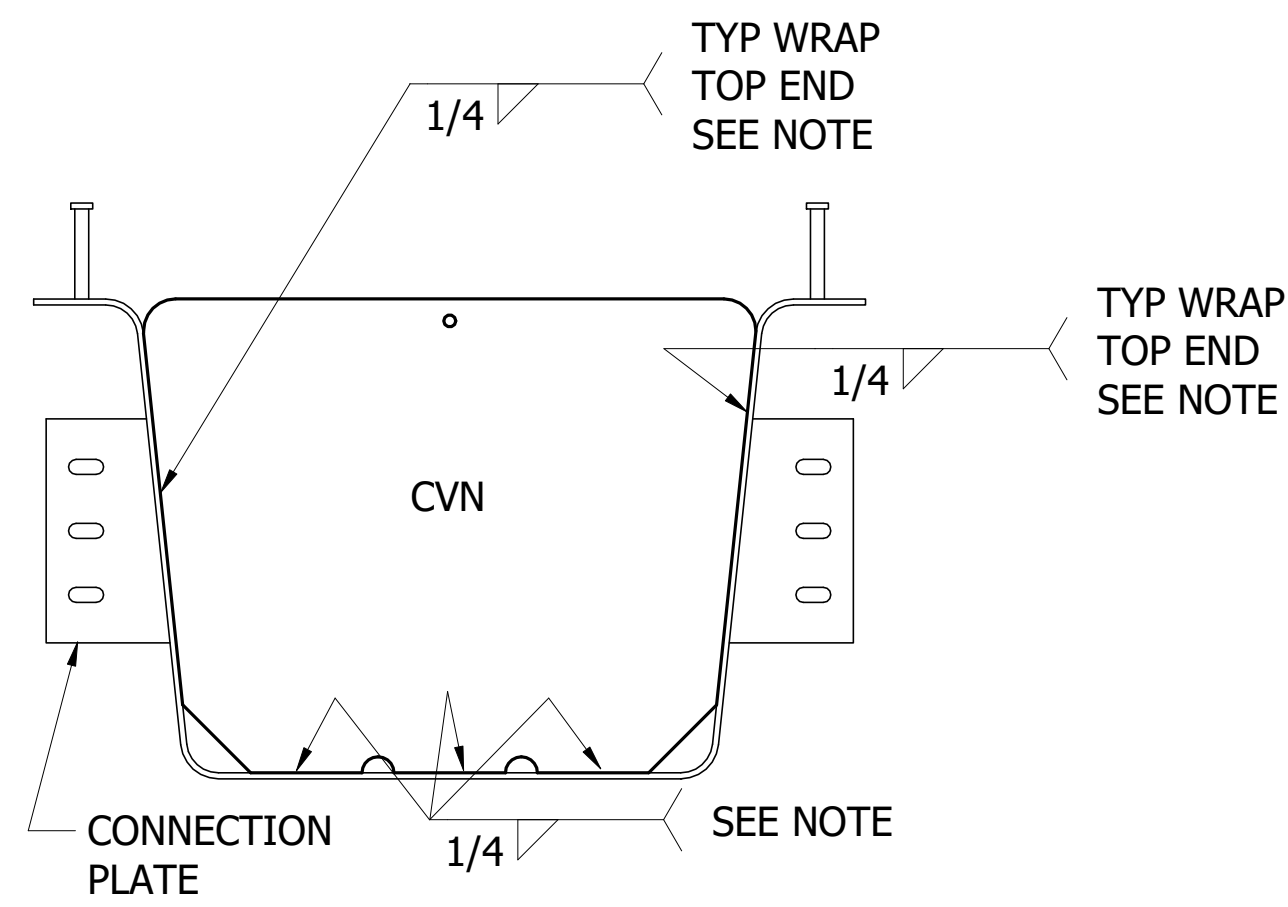
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U-BEAM REQUIRES CHARPY V-NOTCH TESTING. (CVN)



PRELIMINARY FOR INFORMATION ONLY \*\*\*\*

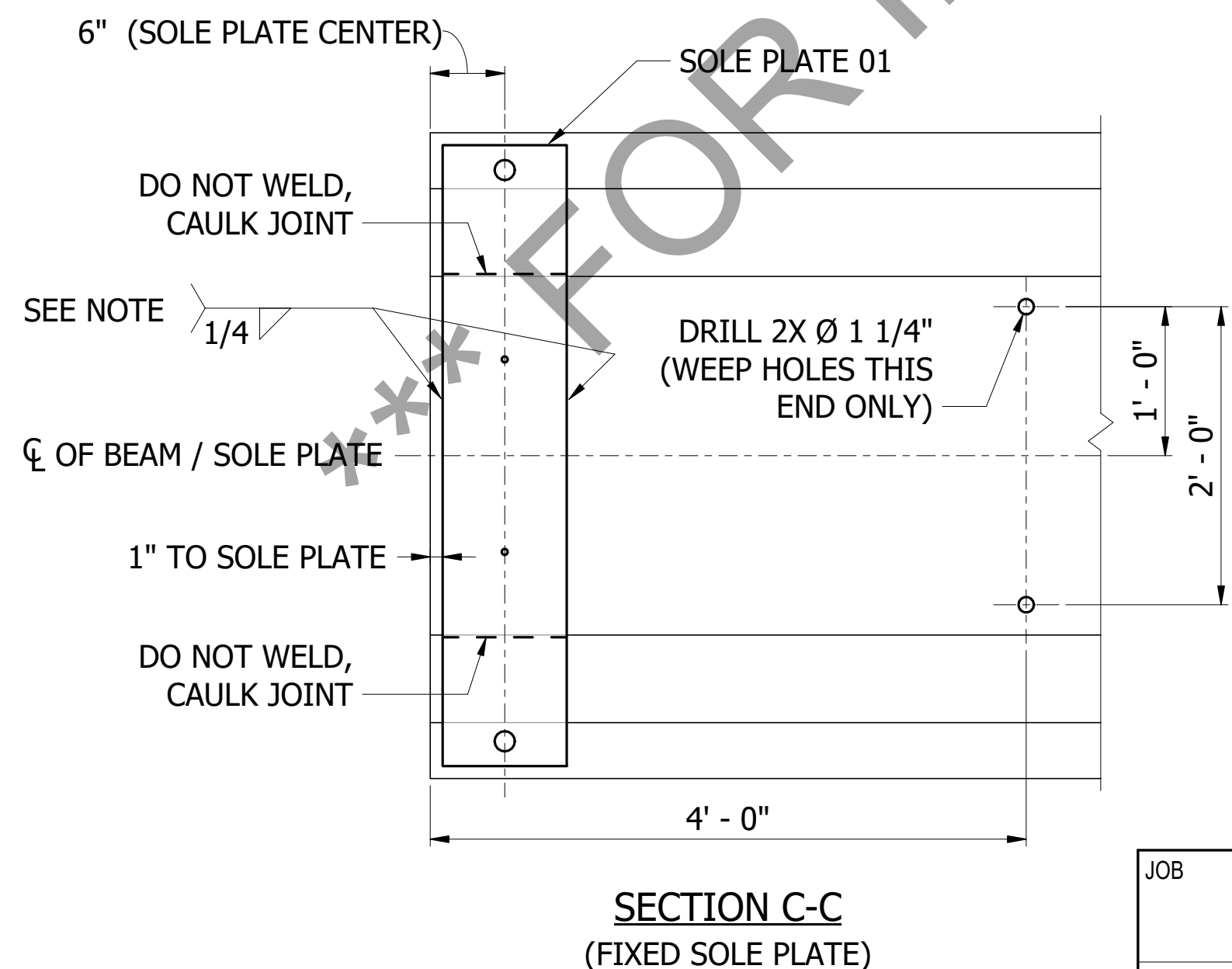
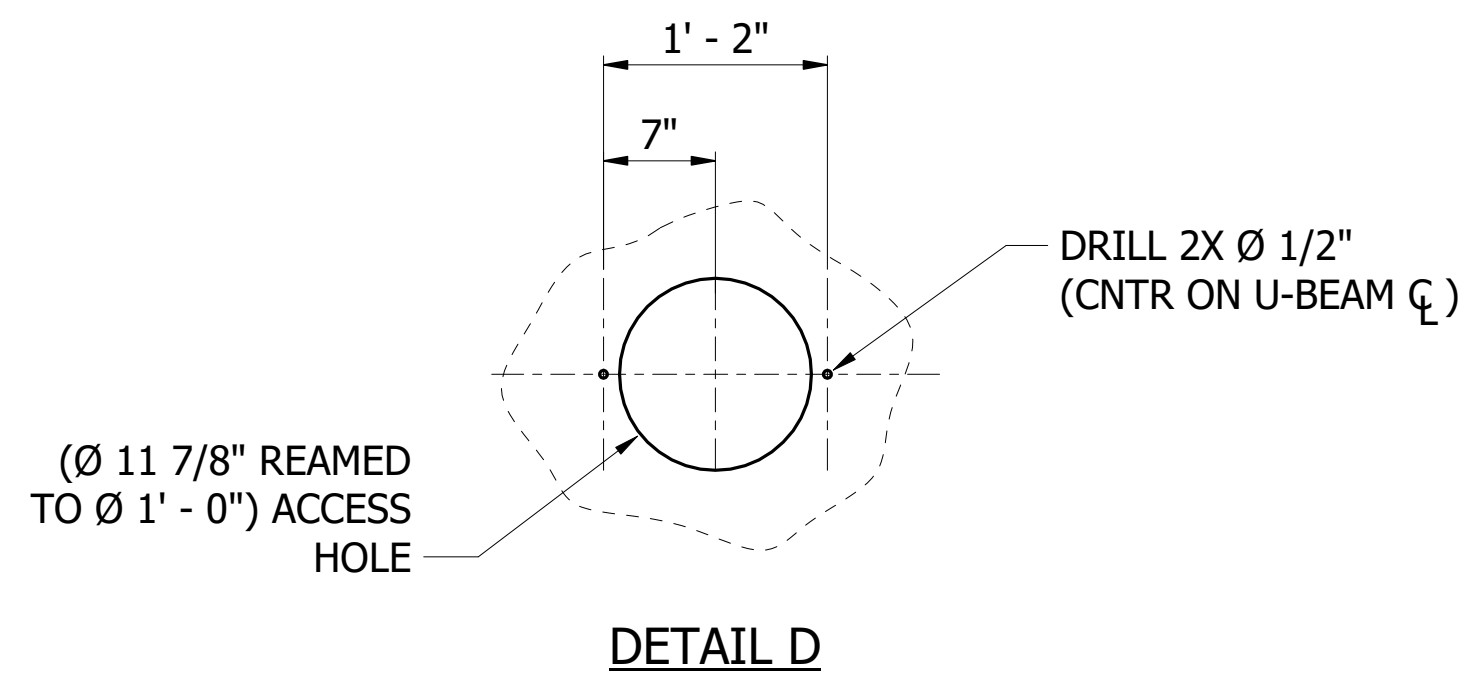
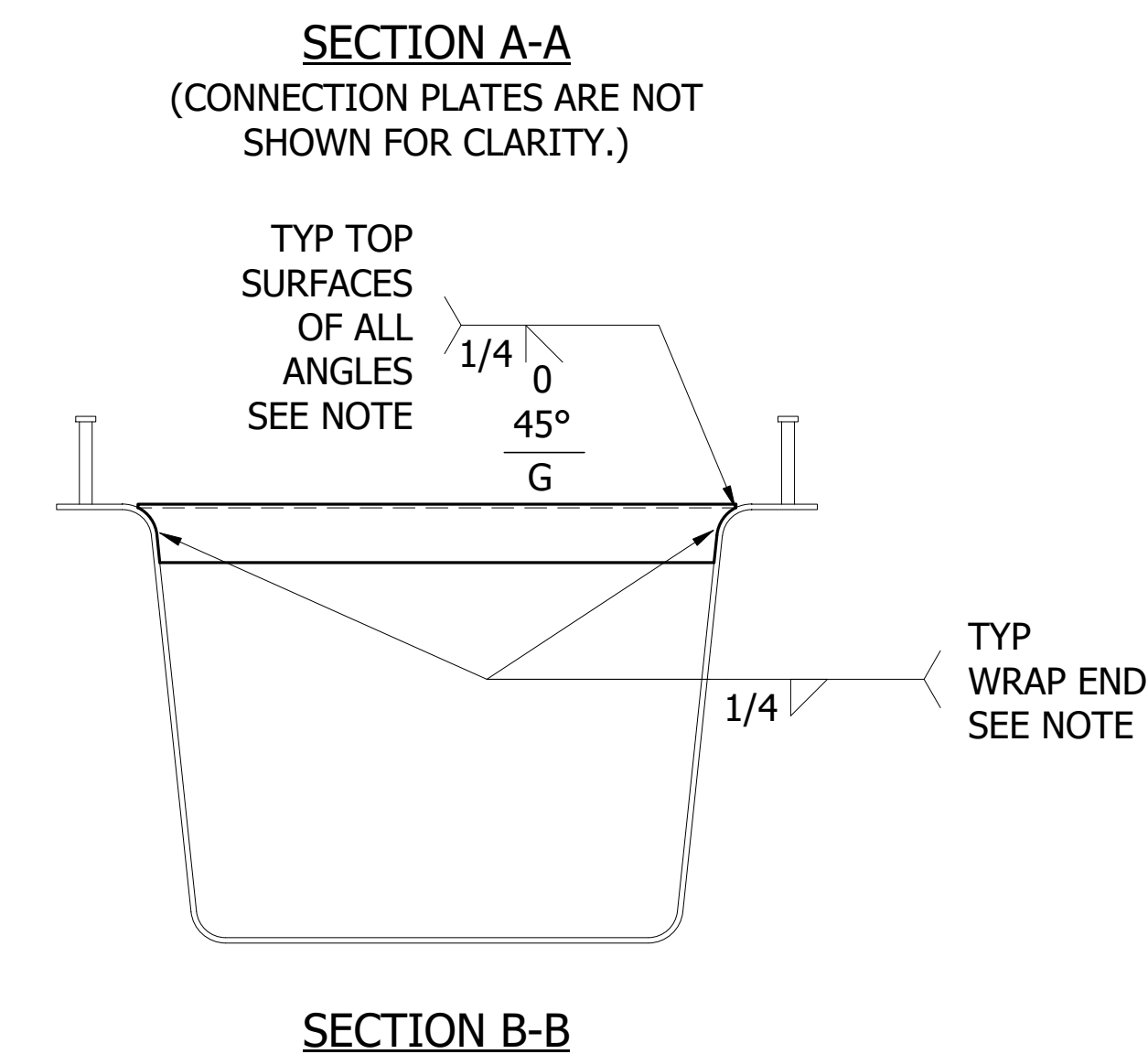
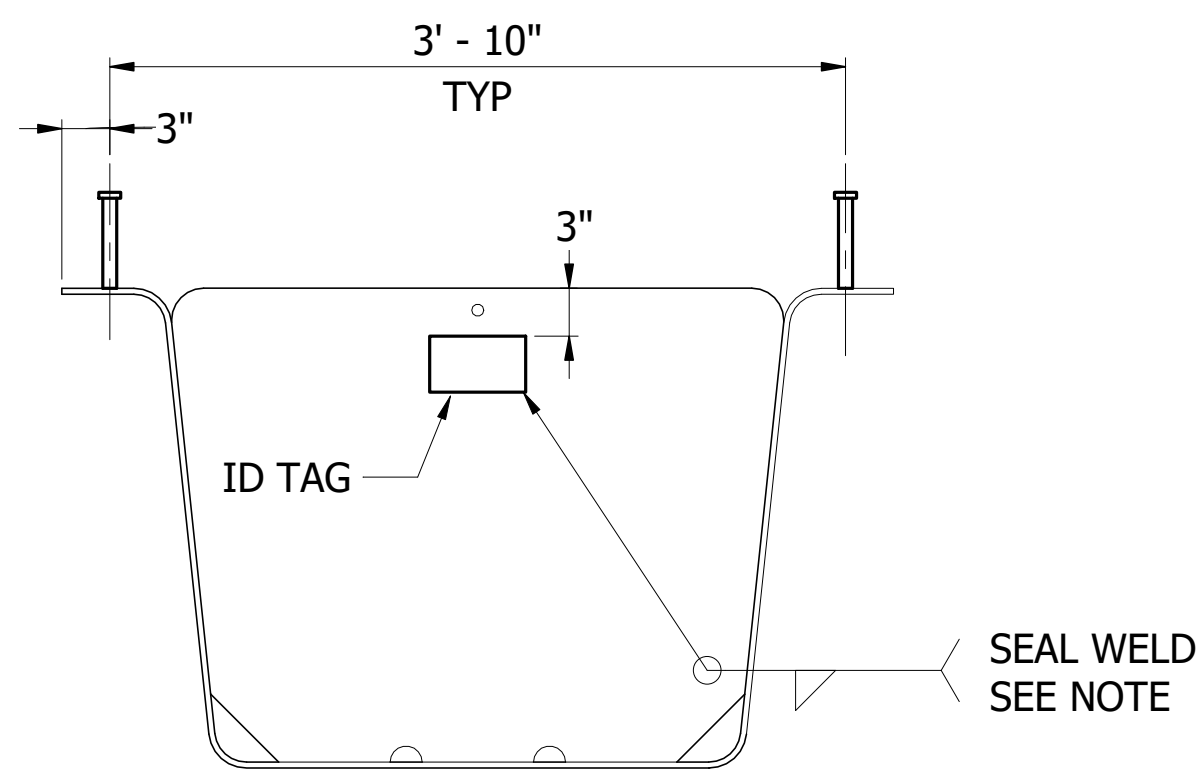
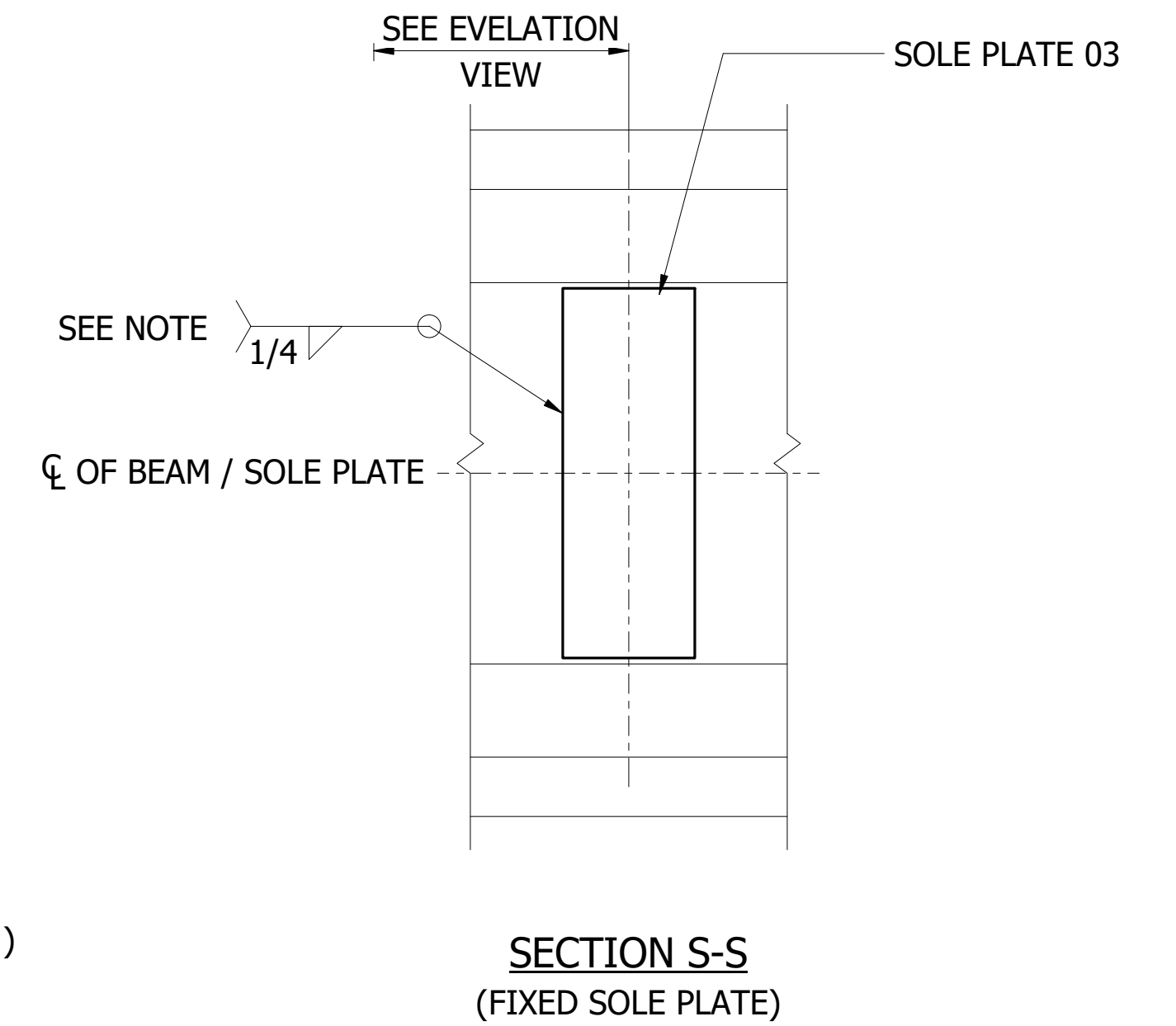
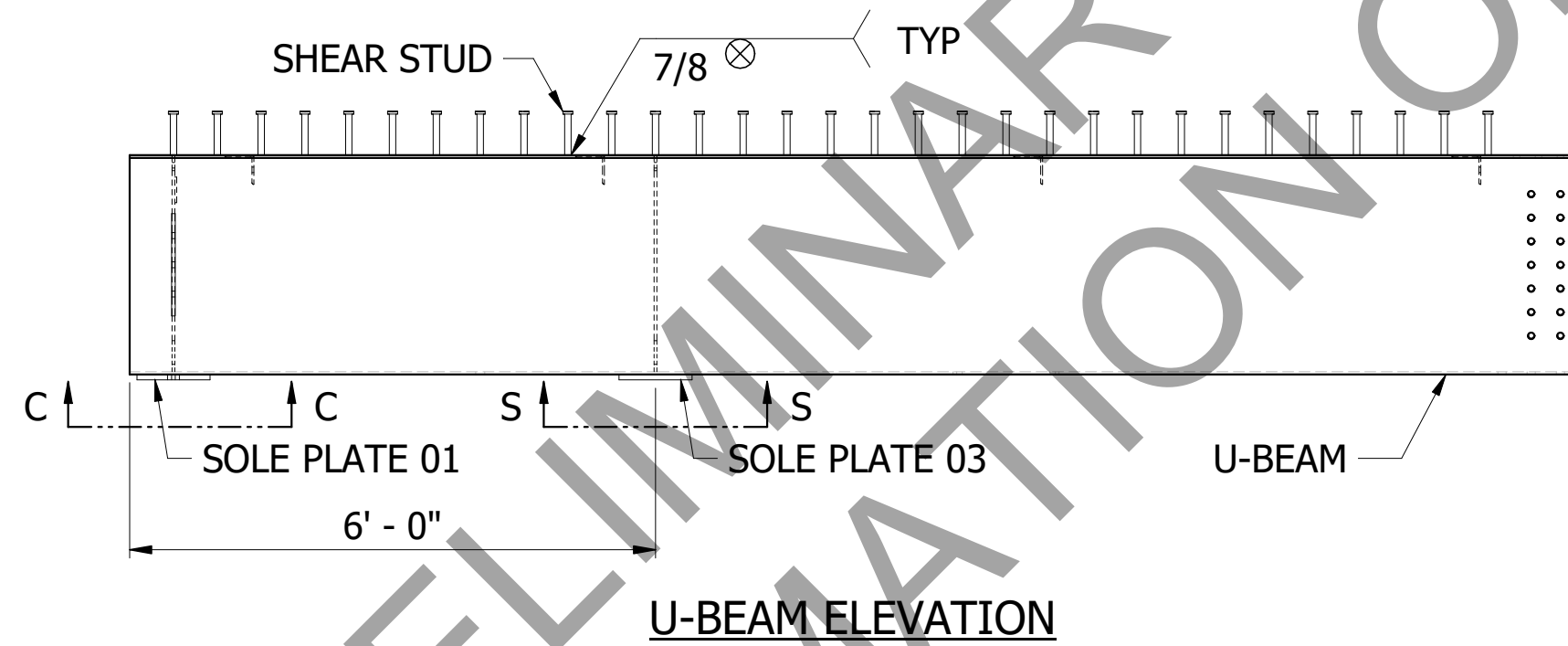
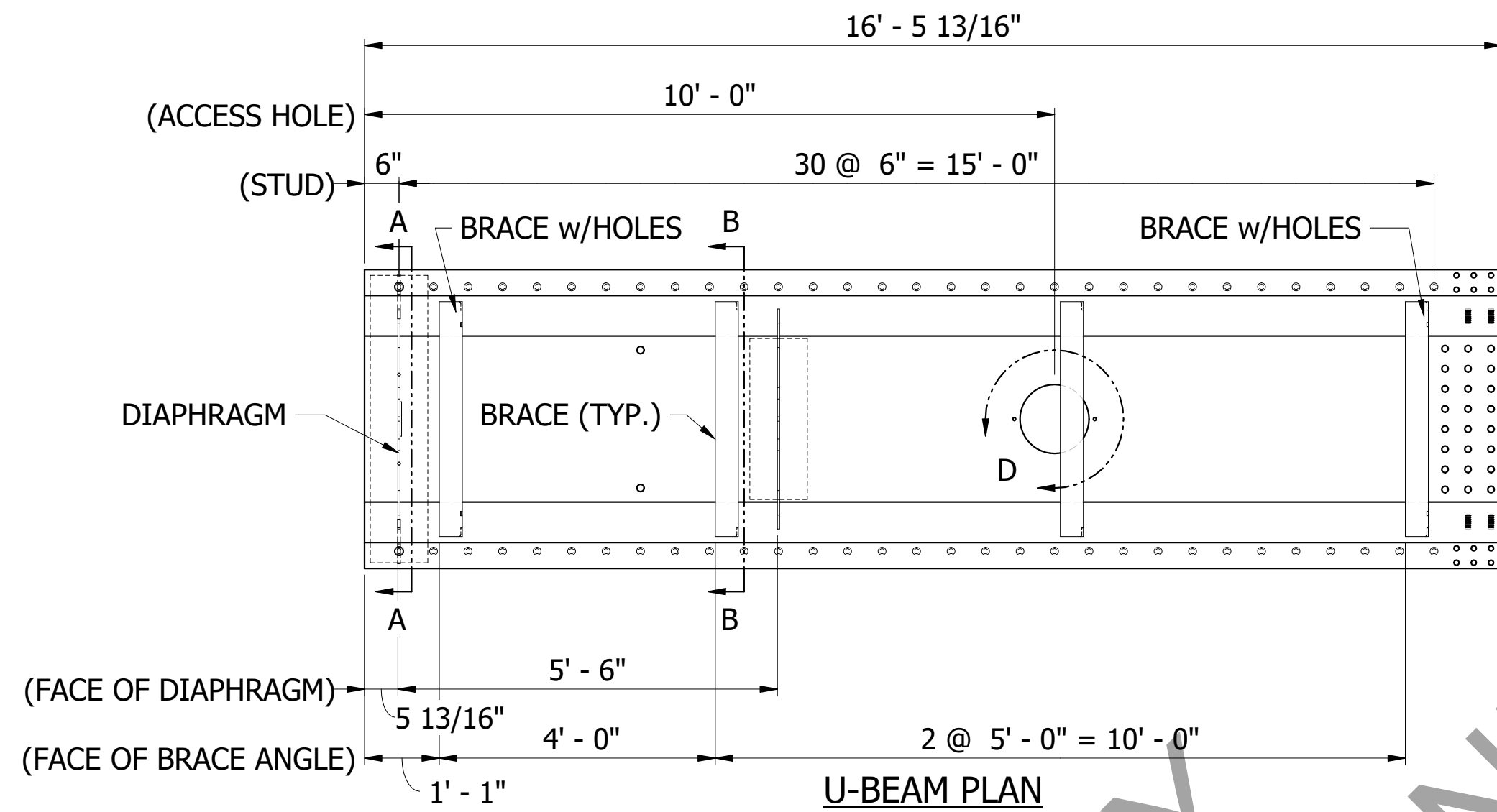
JOB: IMPERIAL CO., CA.  
DOGWOOD ROAD OVER CENTRAL MAIN CANAL  
BRIDGE NO: 58C-0226 / COUNTY PROJECT 6222

TITLE: B1-3 SHEET 2

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REV



WELD NOTE:  
- SEE WELDING SECTION ON COVER SHEET FOR WELDING SPECIFICATIONS.

NOTE:  
- REFERENCE FRAMING PLAN DRAWING FOR OVERALL GIRDER ASSEMBLY.

LABEL	DESCRIPTION	QTY PER ASSY
U-BEAM	U30 x 16' - 5 13/16" GIRDER	1
BRACE	L4x4x1/4 x 3'-4 7/8"	2
BRACE w/HOLES	L4x4x1/4 x 3'-4 7/8" w/(2) 3/4"Ø HOLES	2
CONNEX PLATE	PL 1/2" x (6 1/4" / 7 3/4") x 1'-2"	2
DIAPHRAGM	PL 3/8" x 2'-5 5/8" x 3'-2 1/4"	2
SHEAR STUD	7/8"Ø x 6" SHEAR STUD	62
SOLE PLATE 01	PL 3/4" x 10" x 4'-2" w/(2) 1 5/8"Ø & (2) 1/2"Ø HOLES	1
SOLE PLATE 03	PL 3/4" x 10" x 2'-4"	1
TAG	ID TAG	1

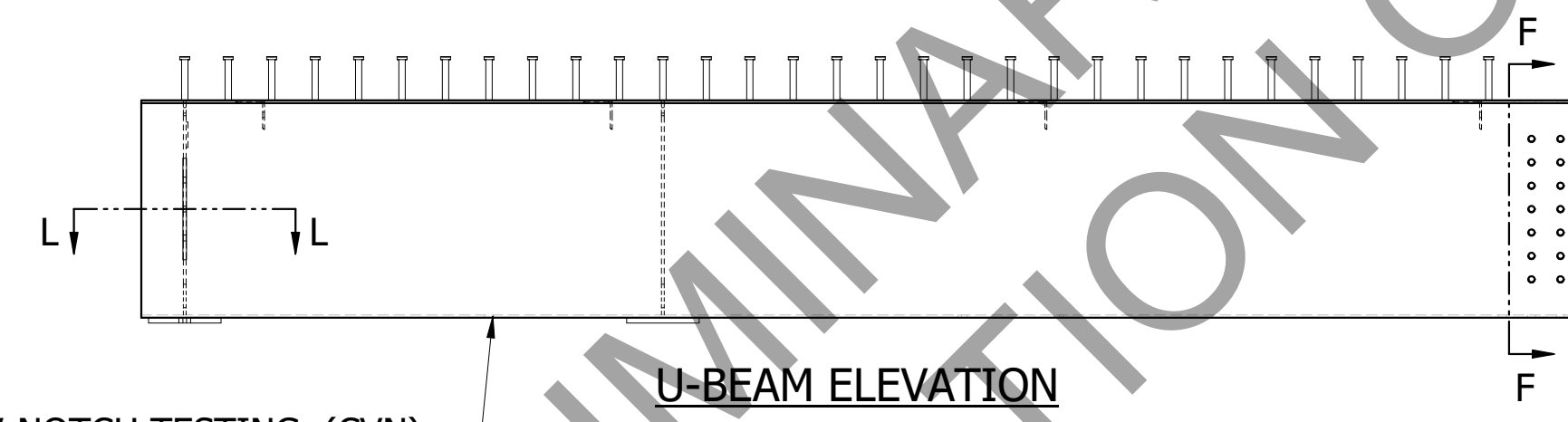
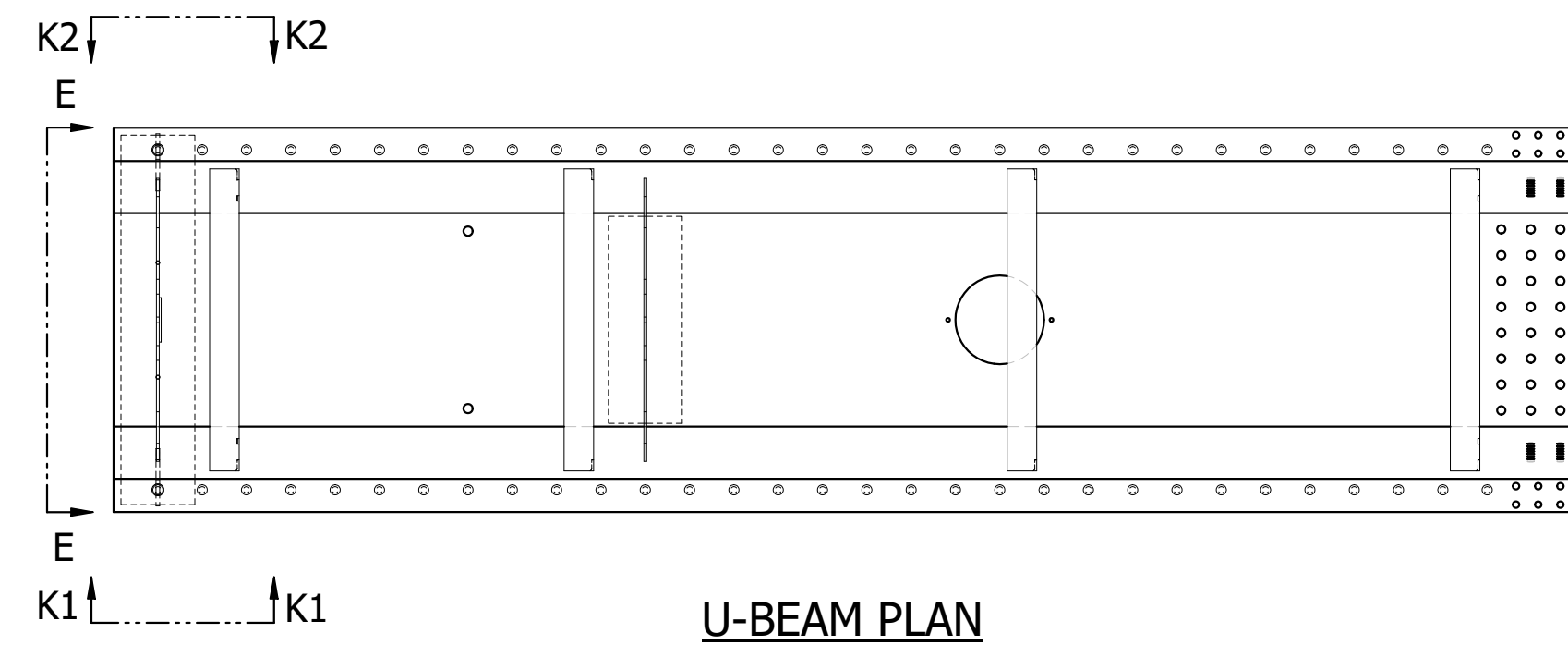
JOB IMPERIAL CO., CA.  
DOGWOOD ROAD OVER CENTRAL MAIN CANAL  
BRIDGE NO: 58C-0226 / COUNTY PROJECT 6222

TITLE C1-1 SHEET 1

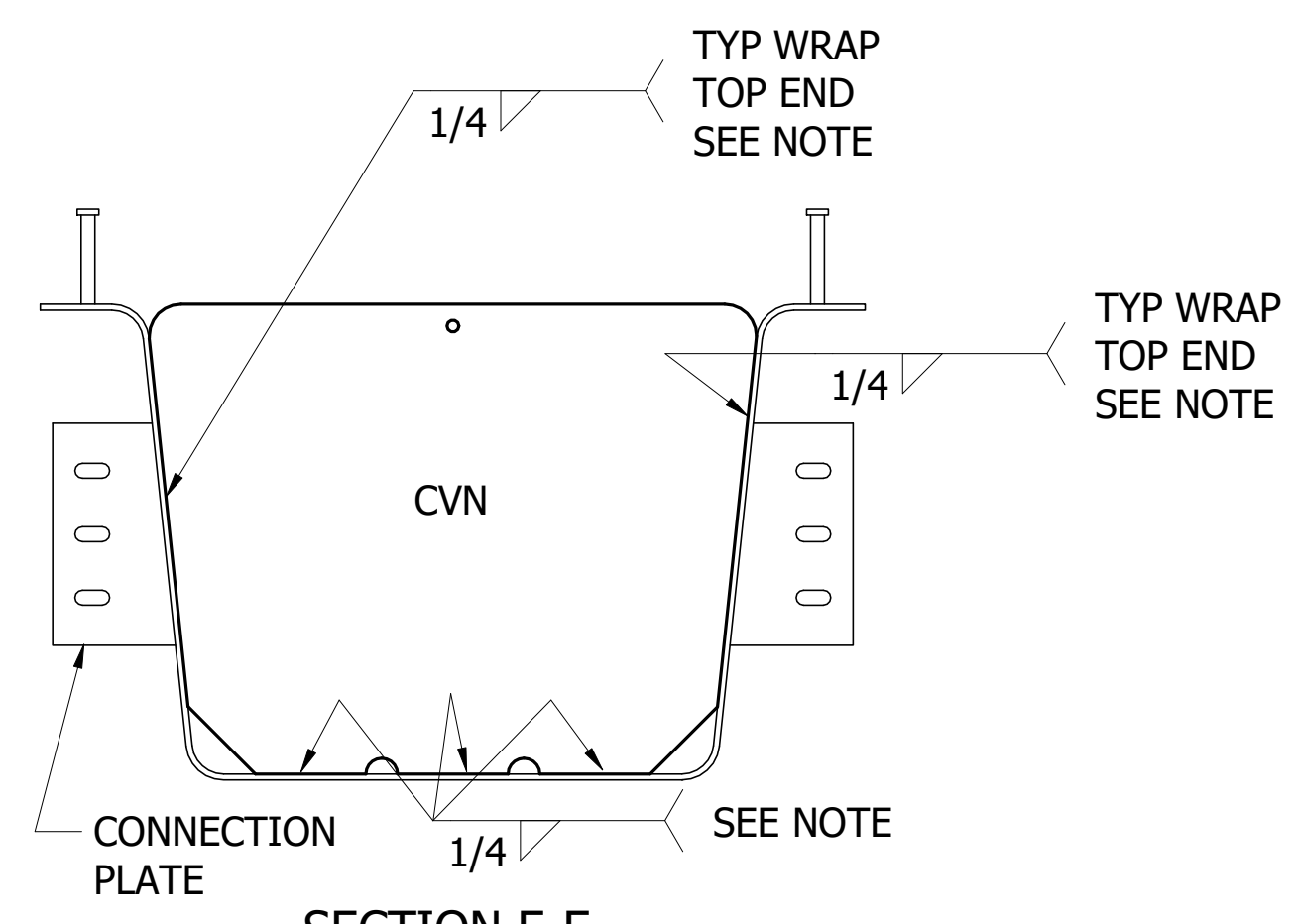
THE DESIGN AND DETAILS CONTAINED IN THESE DRAWINGS ARE BASED ON VALMONT® INDUSTRIES, INC. STANDARD SPECIFICATIONS AND MANUFACTURING PROCESS. THESE DRAWINGS ARE FURNISHED FOR INFORMATION ONLY AND ARE NOT PROJECT SPECIFIC DESIGNS.



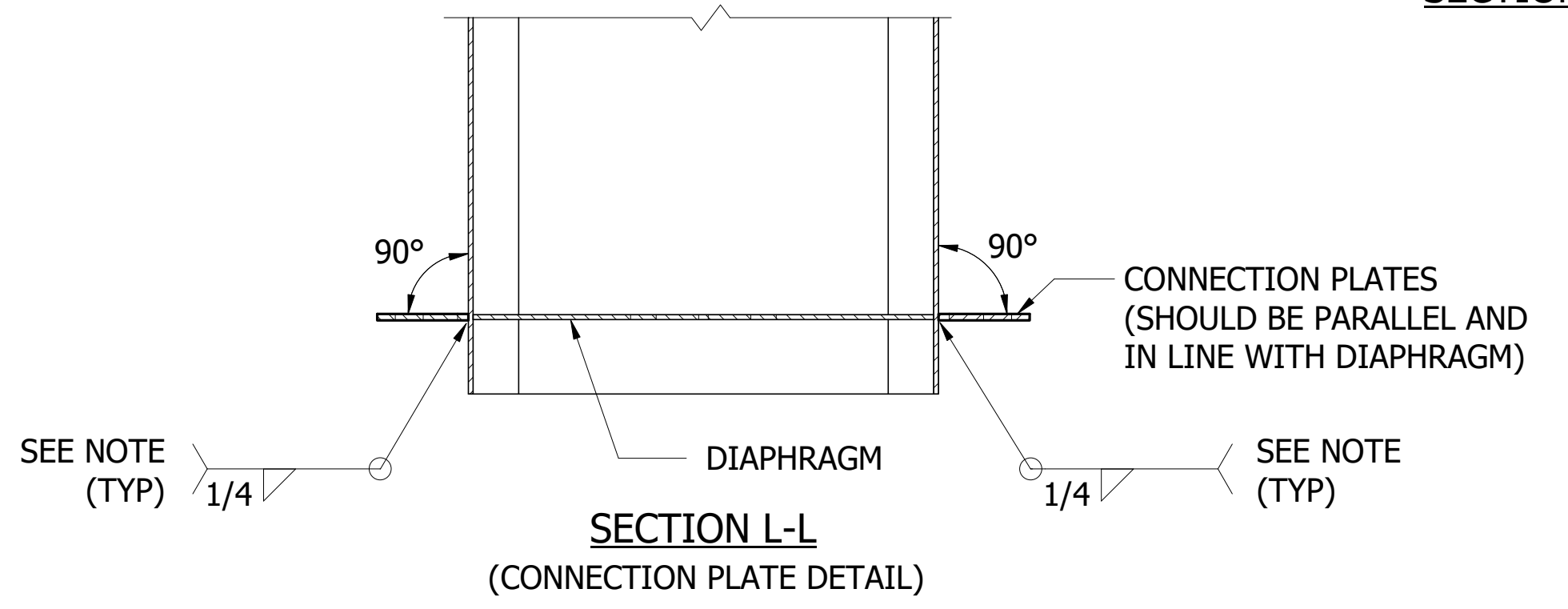
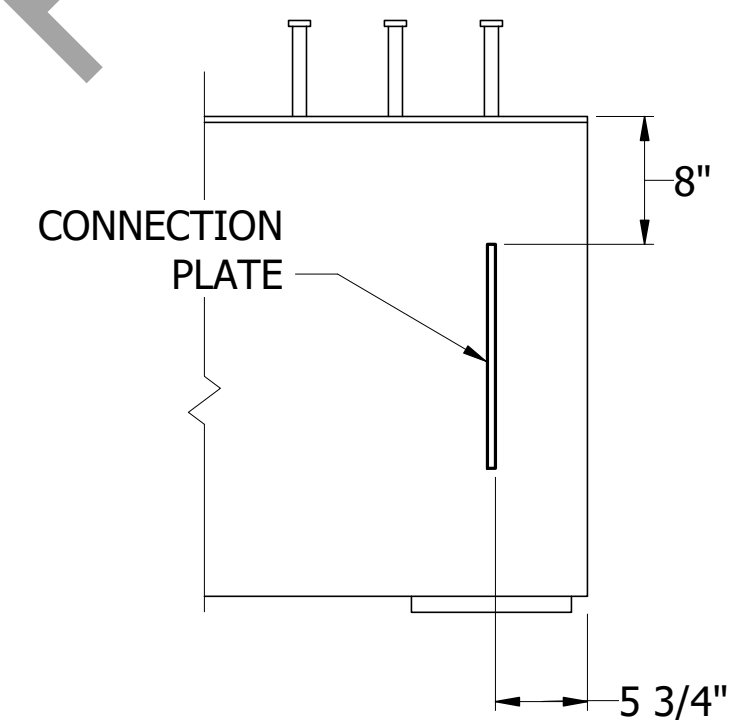
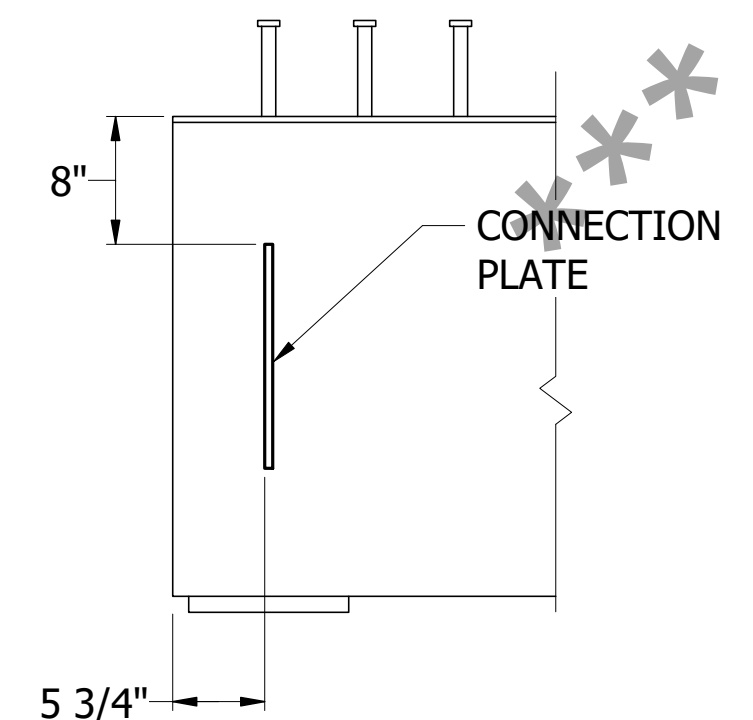
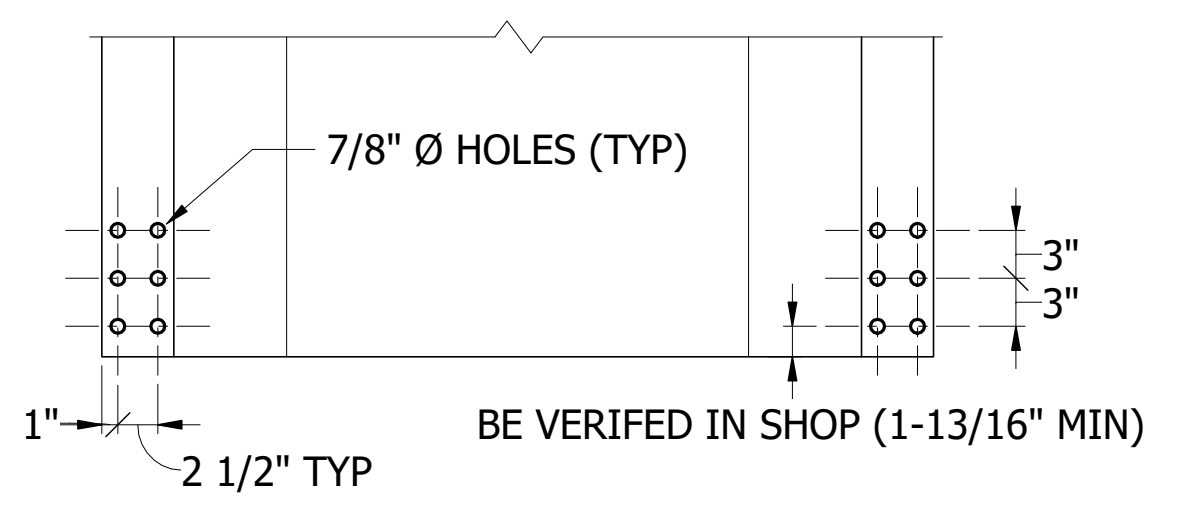
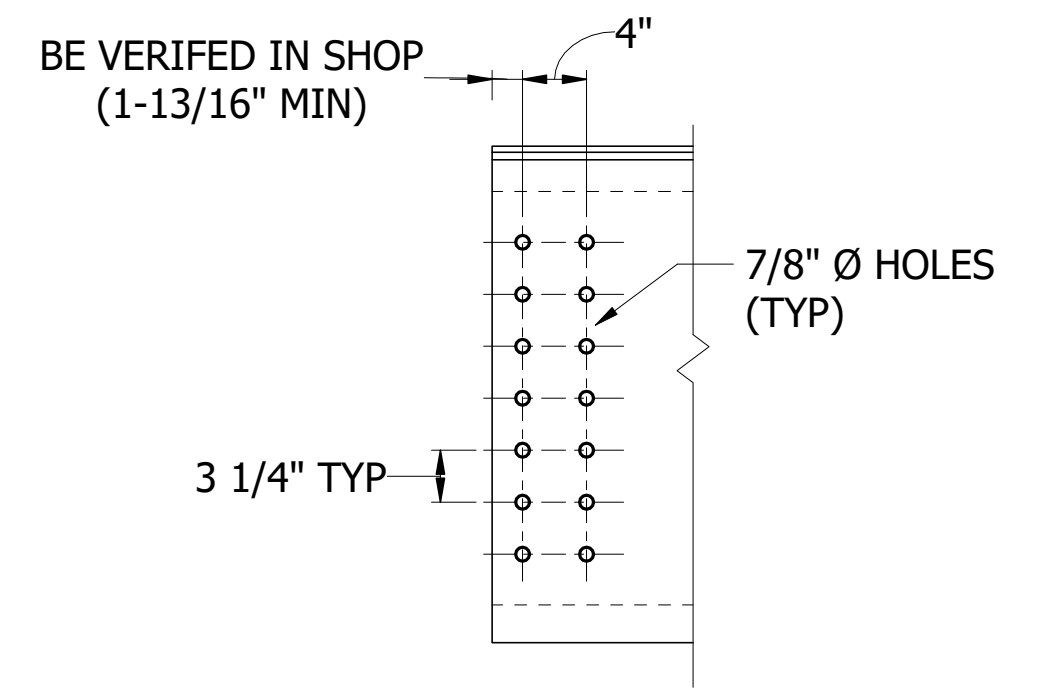
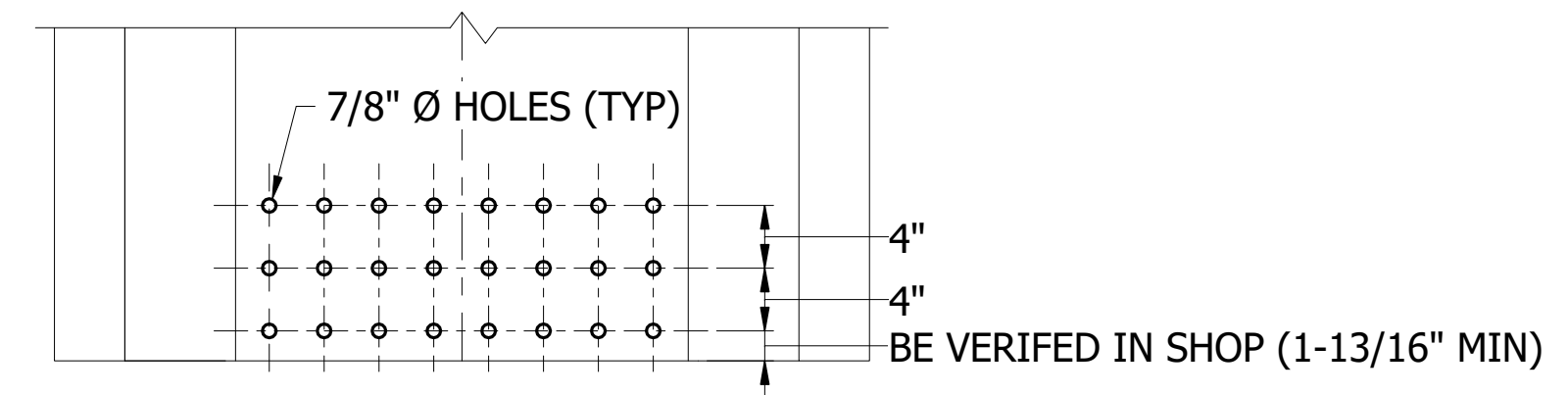
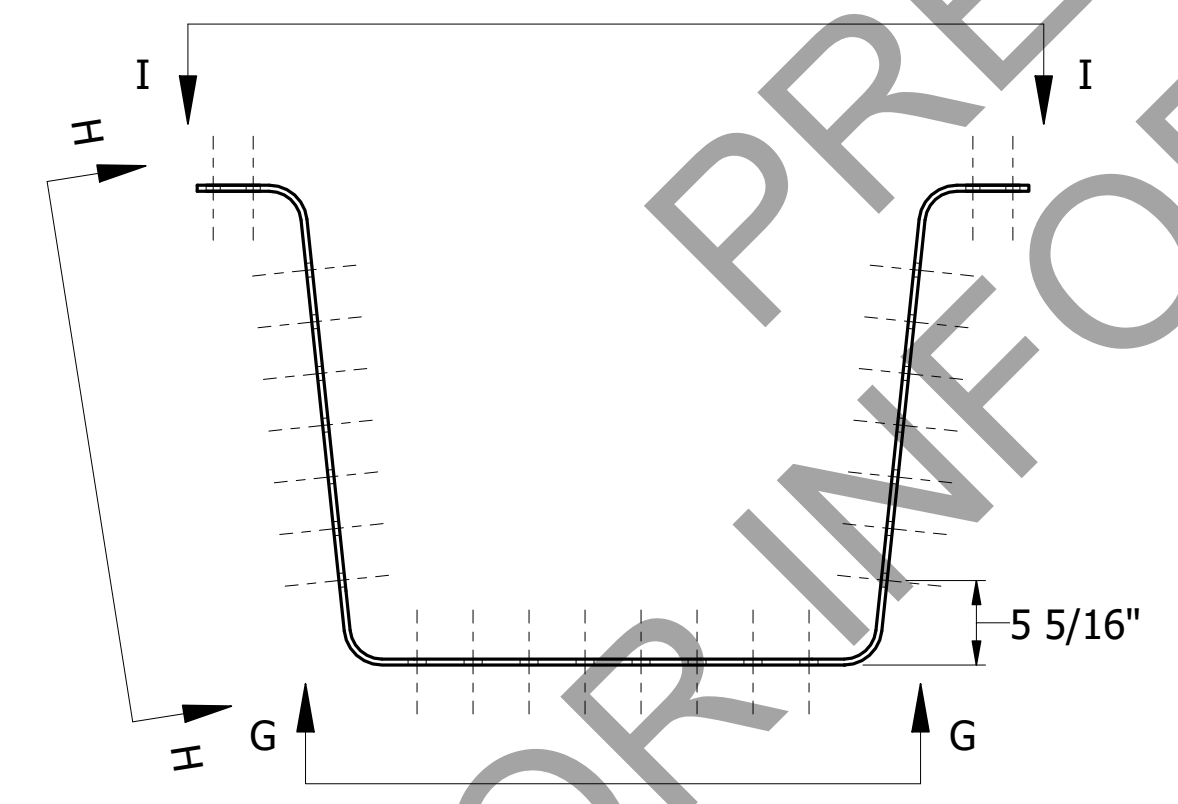
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PAGE NUMBER: 15 OF 53  
DRAWING NUMBER: 529039P1  
REV



U-BEAM REQUIRES CHARPY V-NOTCH TESTING. (CVN)



WELD DIAPHRAGM ON OUTSIDE ONLY (TYP)  
(LOOKING NORMAL TO DIAPHRAGM AND CONNECTION PLATES)



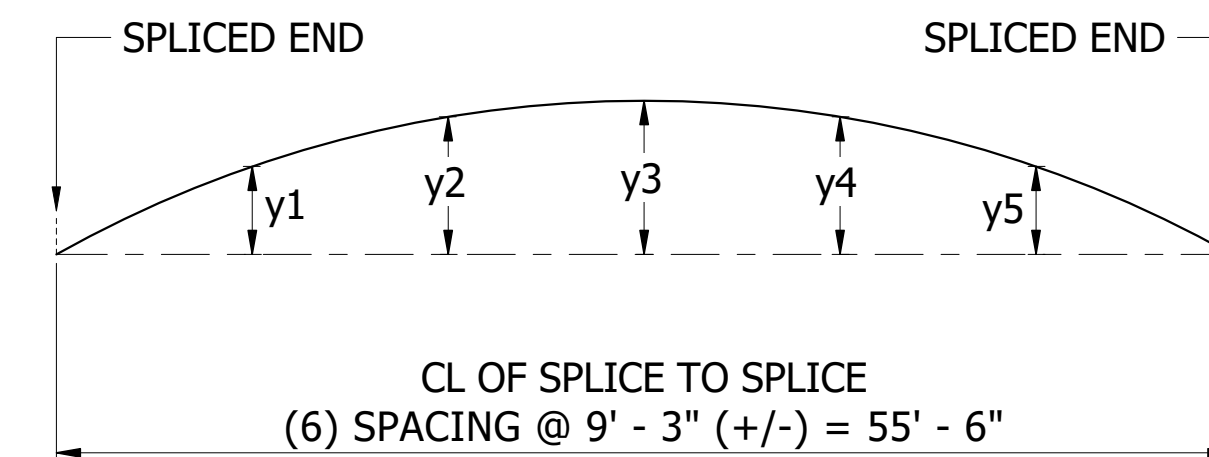
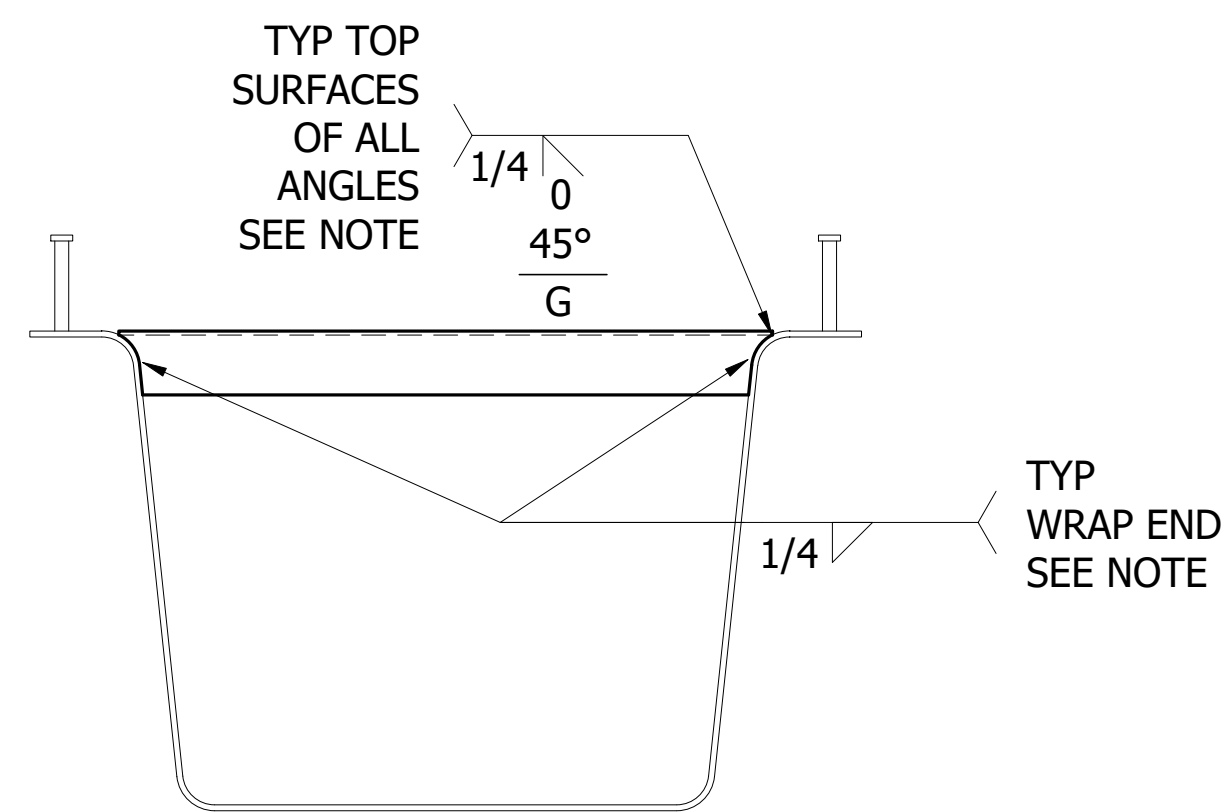
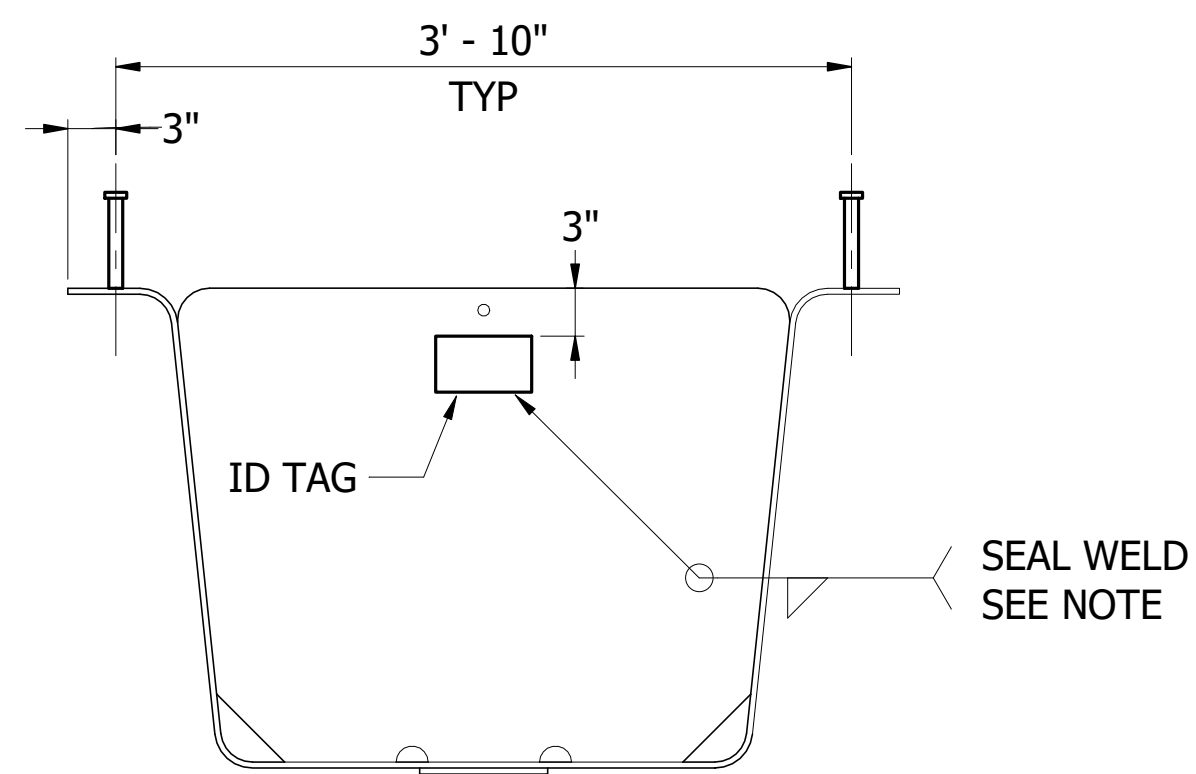
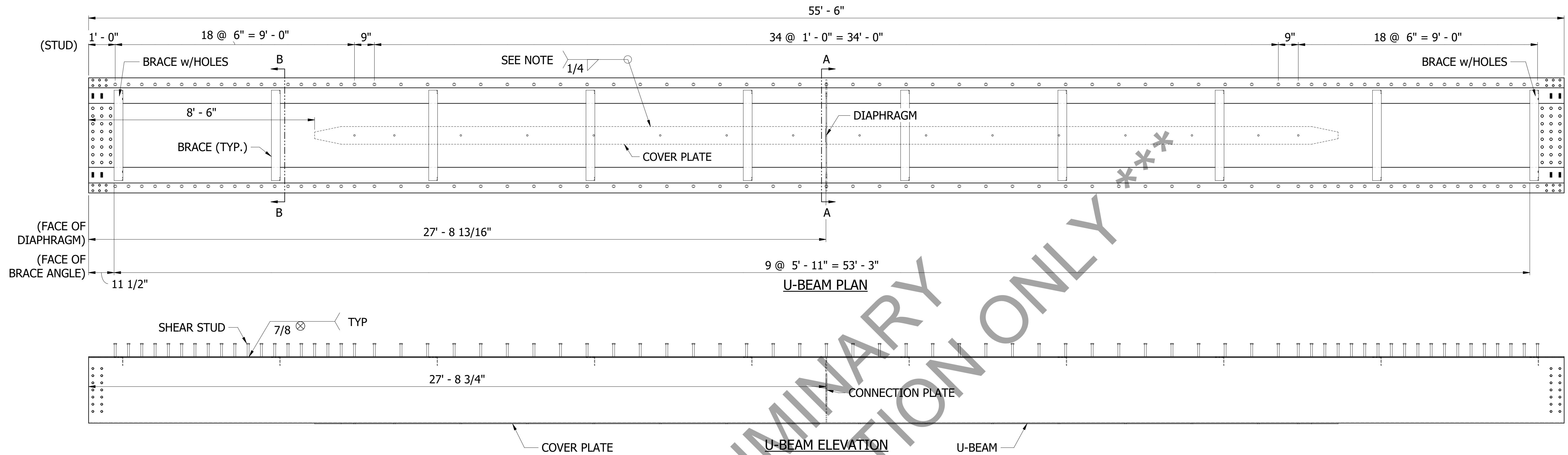
JOB	IMPERIAL CO., CA. DOGWOOD ROAD OVER CENTRAL MAIN CANAL BRIDGE NO: 58C-0226 / COUNTY PROJECT 6222
TITLE	C1-1 SHEET 2

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REV	





CAMBER ORDINATES	U-BEAM C1-2
y1	1 7/8"
y2	2 15/16"
y3	3 5/16"
y4	2 15/16"
y5	1 7/8"

**WELD NOTE:**  
- SEE WELDING SECTION ON COVER SHEET FOR WELDING SPECIFICATIONS.

**NOTE:**  
- REFERENCE FRAMING PLAN DRAWING FOR OVERALL GIRDER ASSEMBLY.

LABEL	DESCRIPTION	QTY PER ASSY
U-BEAM	U30 x 55' - 6" GIRDER	1
BRACE	L4x4x1/4 x 3'-4 7/8"	8
BRACE w/HOLES	L4x4x1/4 x 3'-4 7/8" w/(2) 3/4"Ø HOLES	2
CONNEX PLATE	PL 1/2" x (6 1/4" / 7 3/4") x 1'-2"	2
COVER PLATE	PL 3/8" x 8" x 38' - 6"	1
DIAPHRAGM	PL 3/8" x 2'-5 5/8" x 3'-2 1/4"	1
SHEAR STUD	7/8"Ø x 6" SHEAR STUD	146
TAG	ID TAG	1

JOB IMPERIAL CO., CA.  
DOGWOOD ROAD OVER CENTRAL MAIN CANAL  
BRIDGE NO: 58C-0226 / COUNTY PROJECT 6222

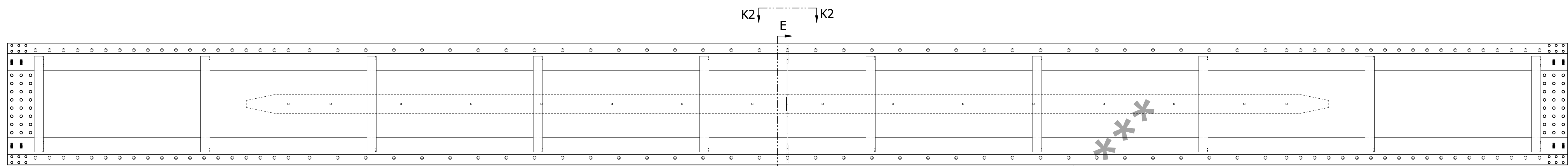
TITLE C1-2 SHEET 1

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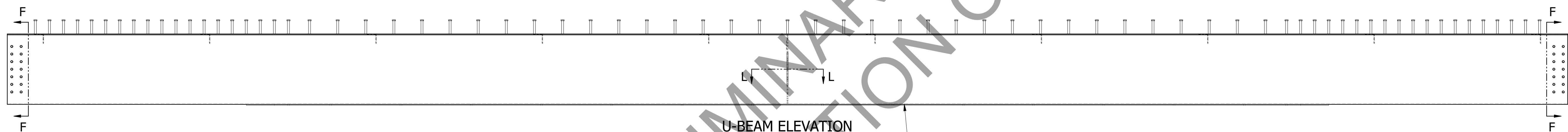


ORDER NUMBER: 529039-P1  
PAGE NUMBER: 17 OF 53  
DRAWING NUMBER: 529039P1  
REV

\*\*\* PRELIMINARY FOR INFORMATION ONLY \*\*\*

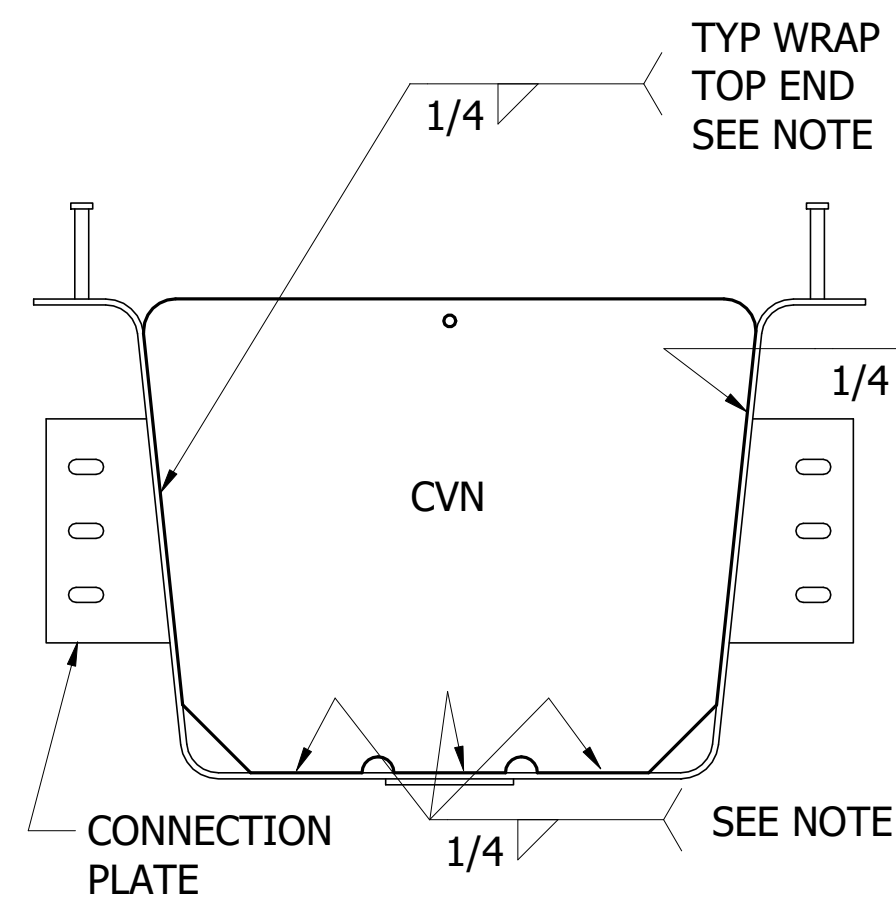


U-BEAM PLAN



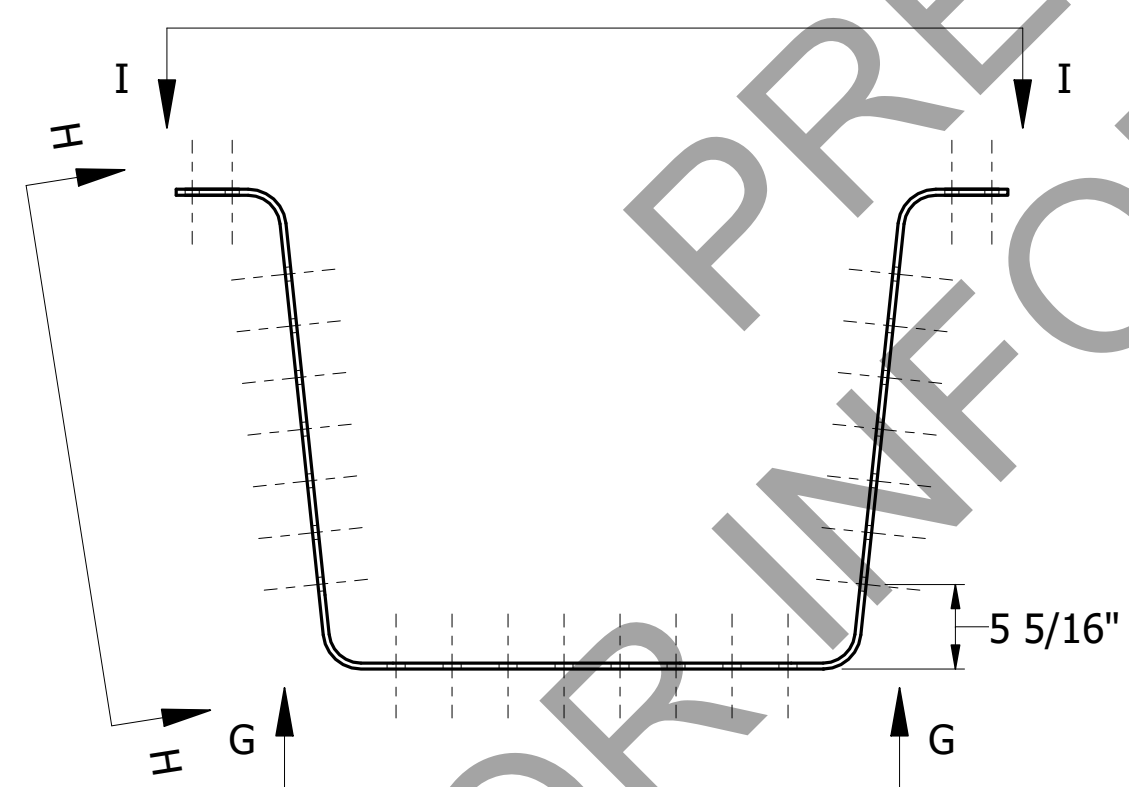
U-BEAM ELEVATION

U-BEAM REQUIRES CHARPY V-NOTCH TESTING. (CVN)

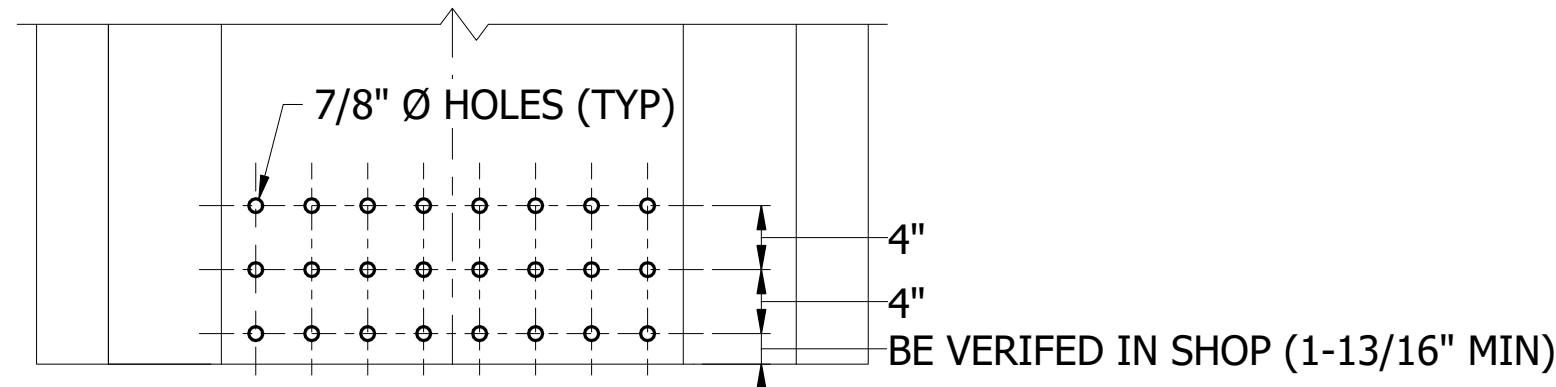


SECTION E-E

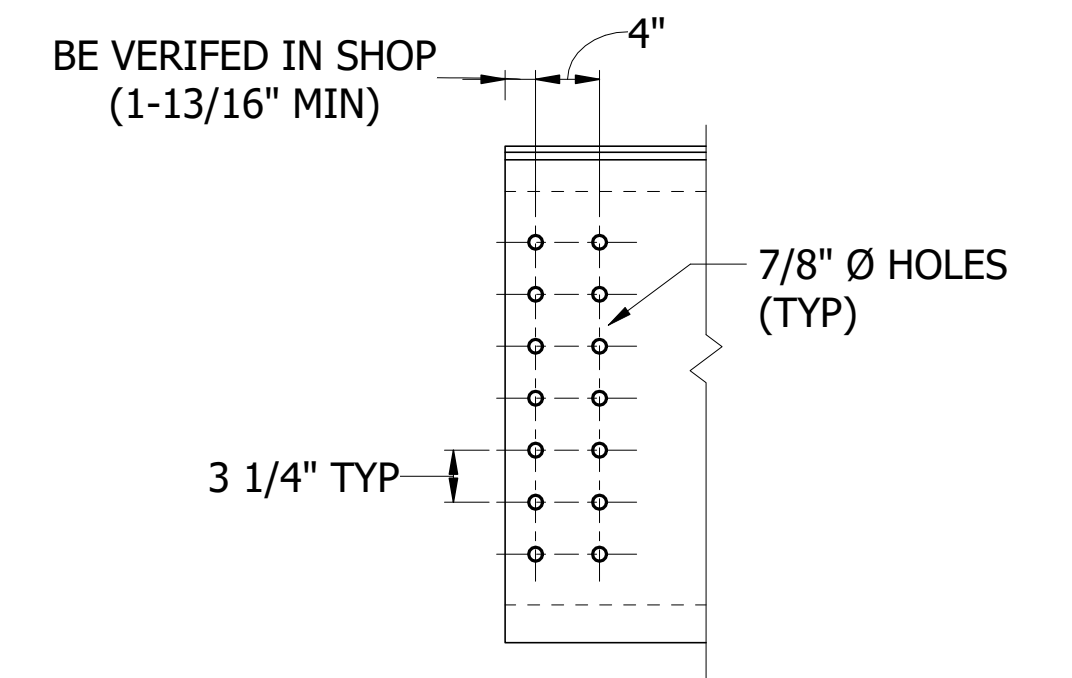
WELD DIAPHRAGM ON OUTSIDE ONLY (TYP)  
(LOOKING NORMAL TO DIAPHRAGM  
AND CONNECTION PLATES)



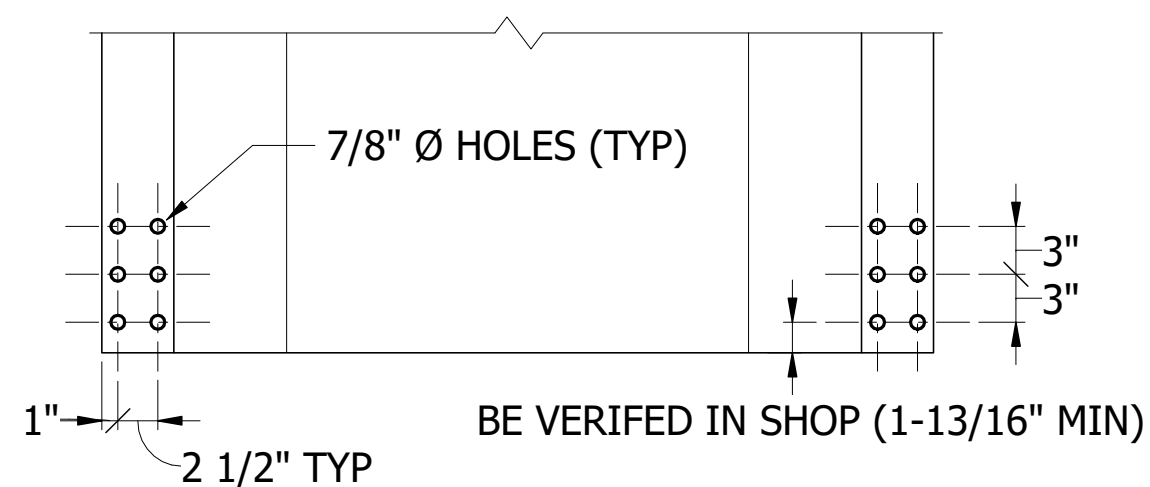
SECTION F-F



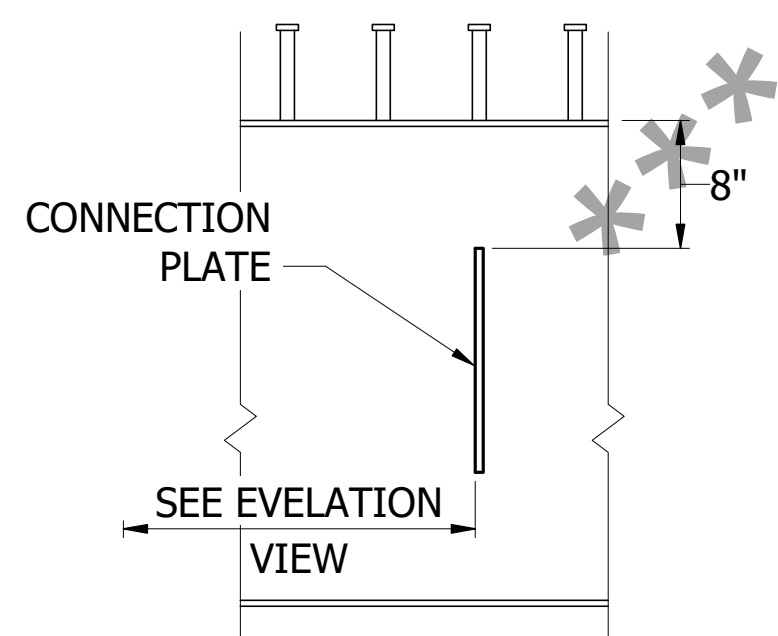
SECTION G-G



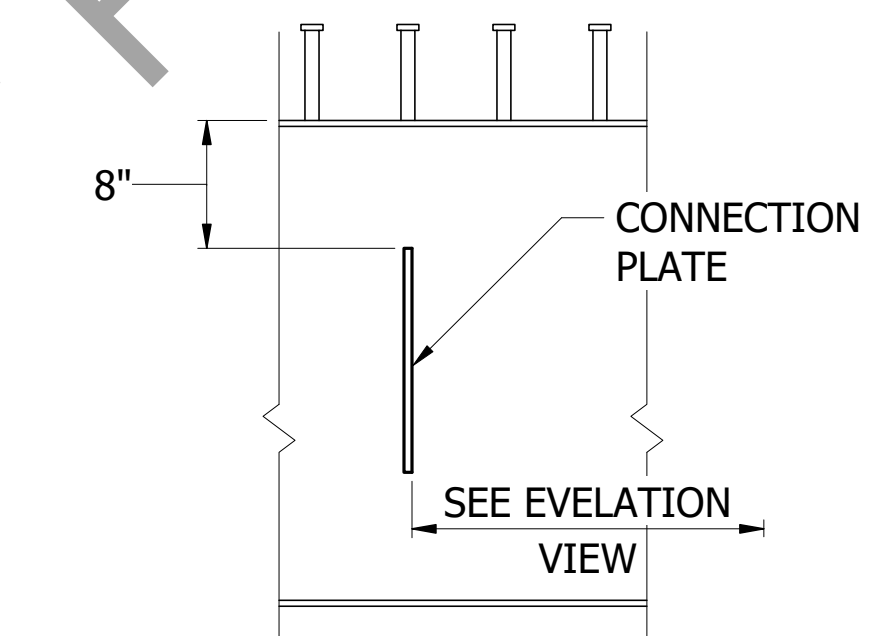
SECTION H-H



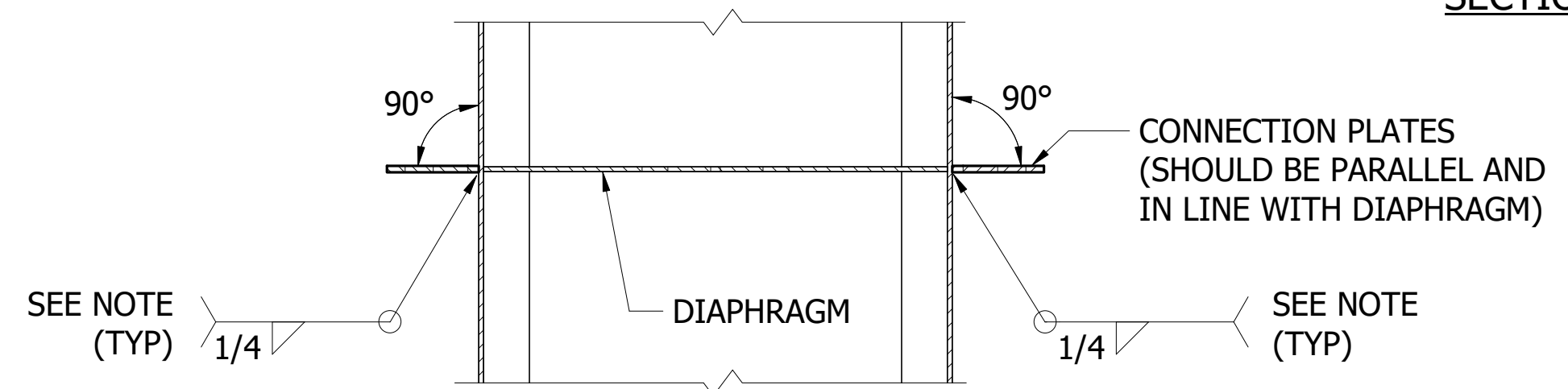
SECTION I-I



SECTION K1-K1



SECTION K2-K2



SECTION L-L  
(CONNECTION PLATE DETAIL)

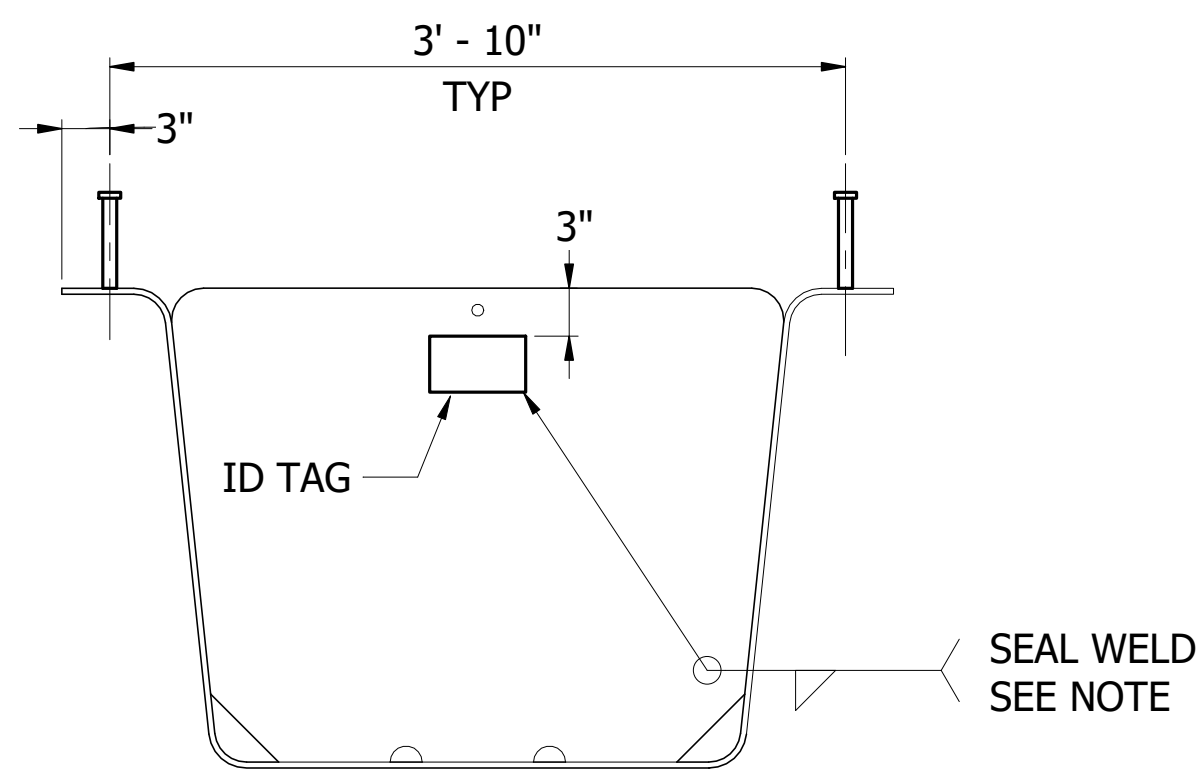
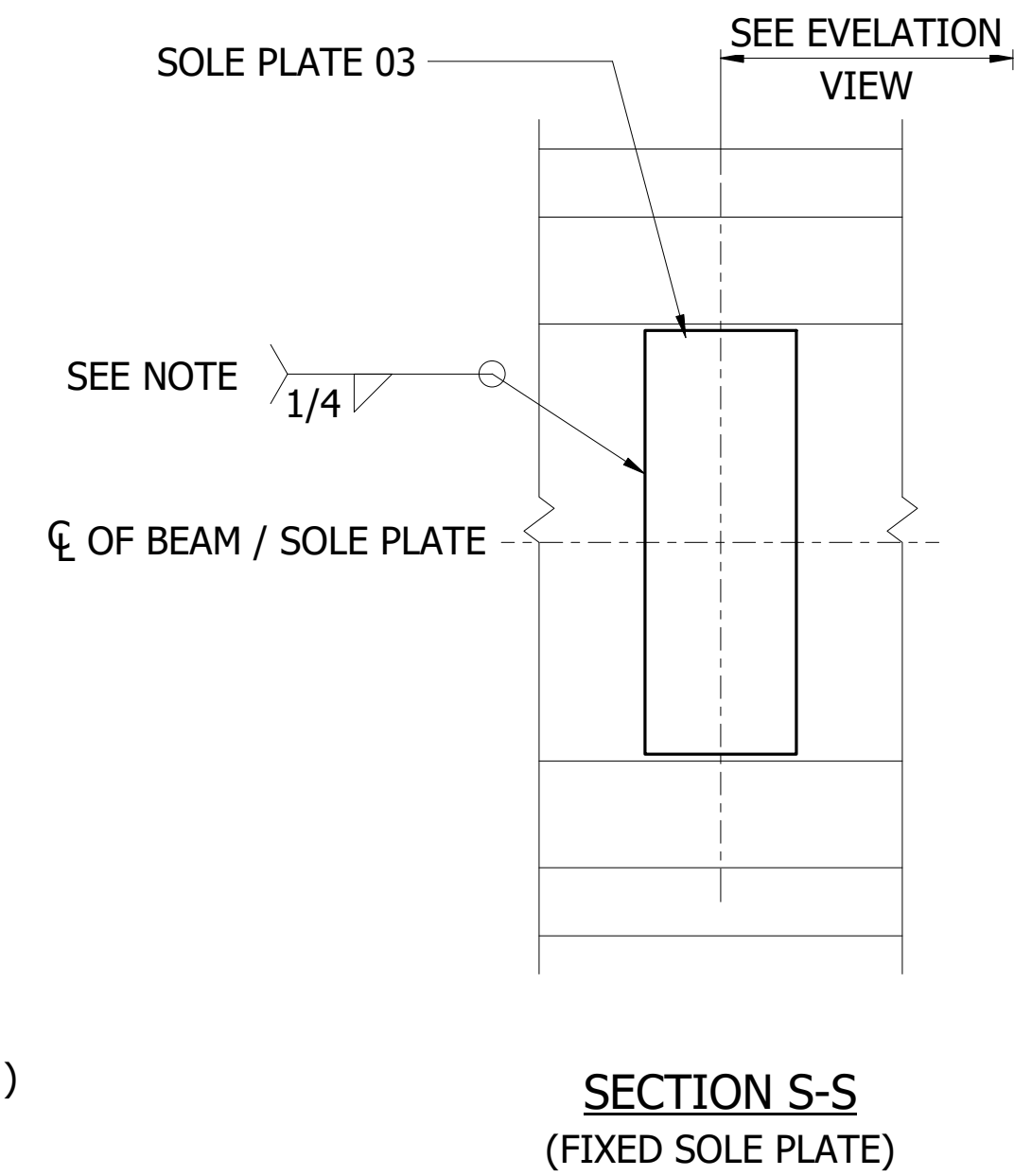
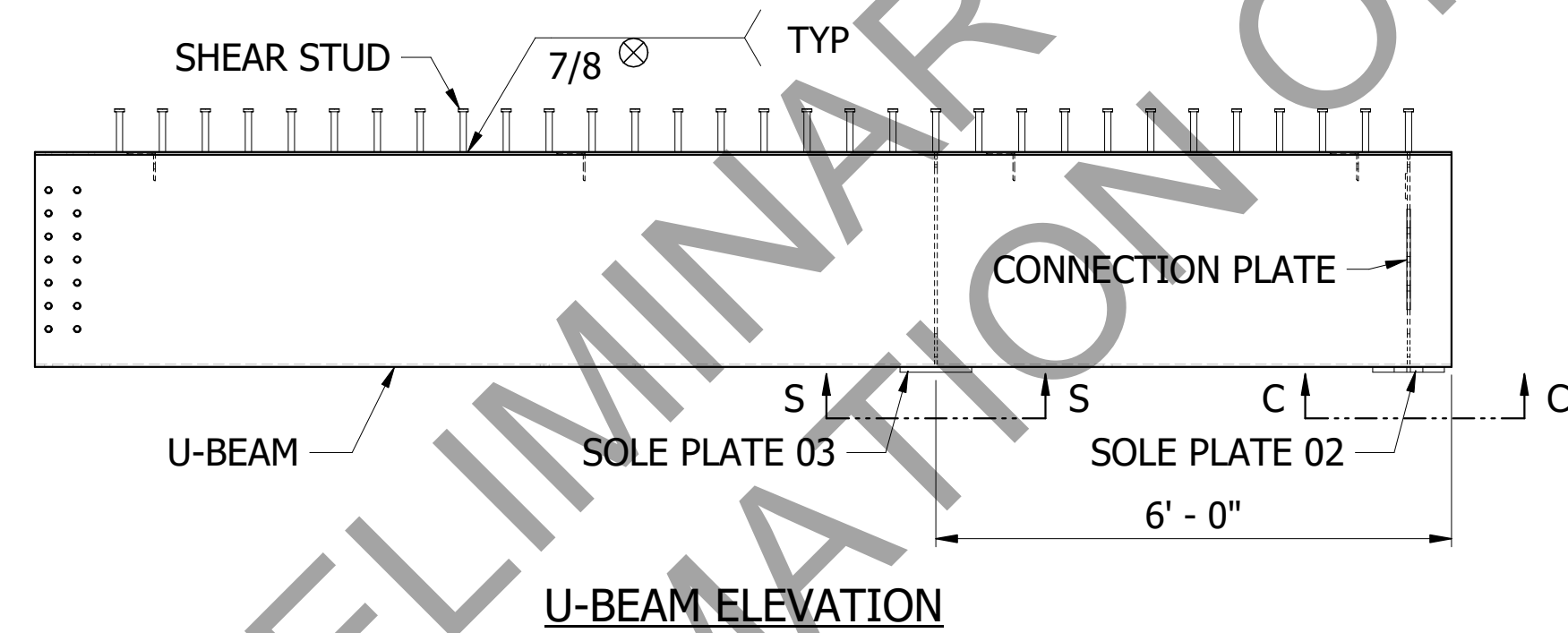
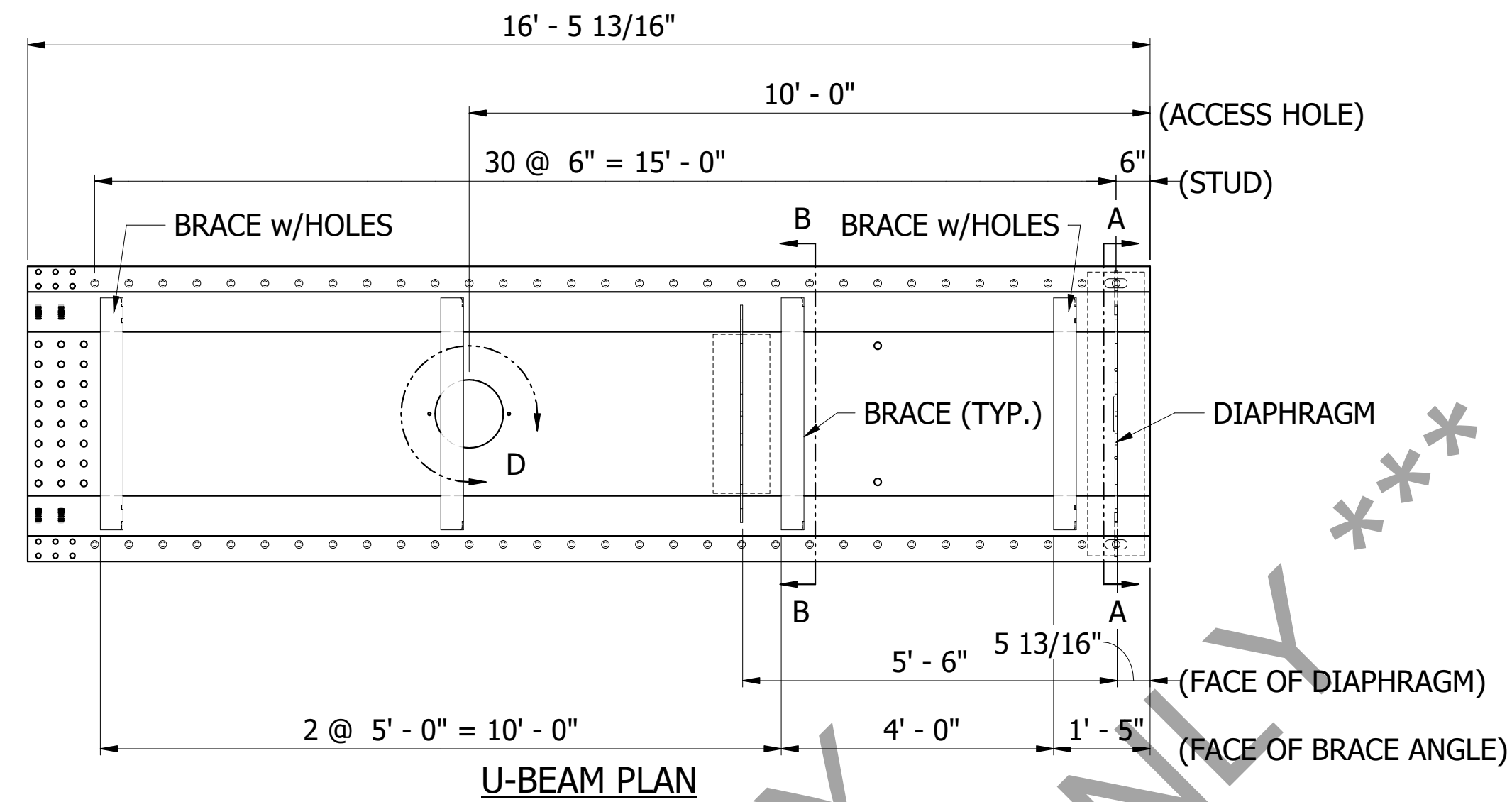
JOB IMPERIAL CO., CA.  
DOGWOOD ROAD OVER CENTRAL MAIN CANAL  
BRIDGE NO: 58C-0226 / COUNTY PROJECT 6222

TITLE C1-2 SHEET 2

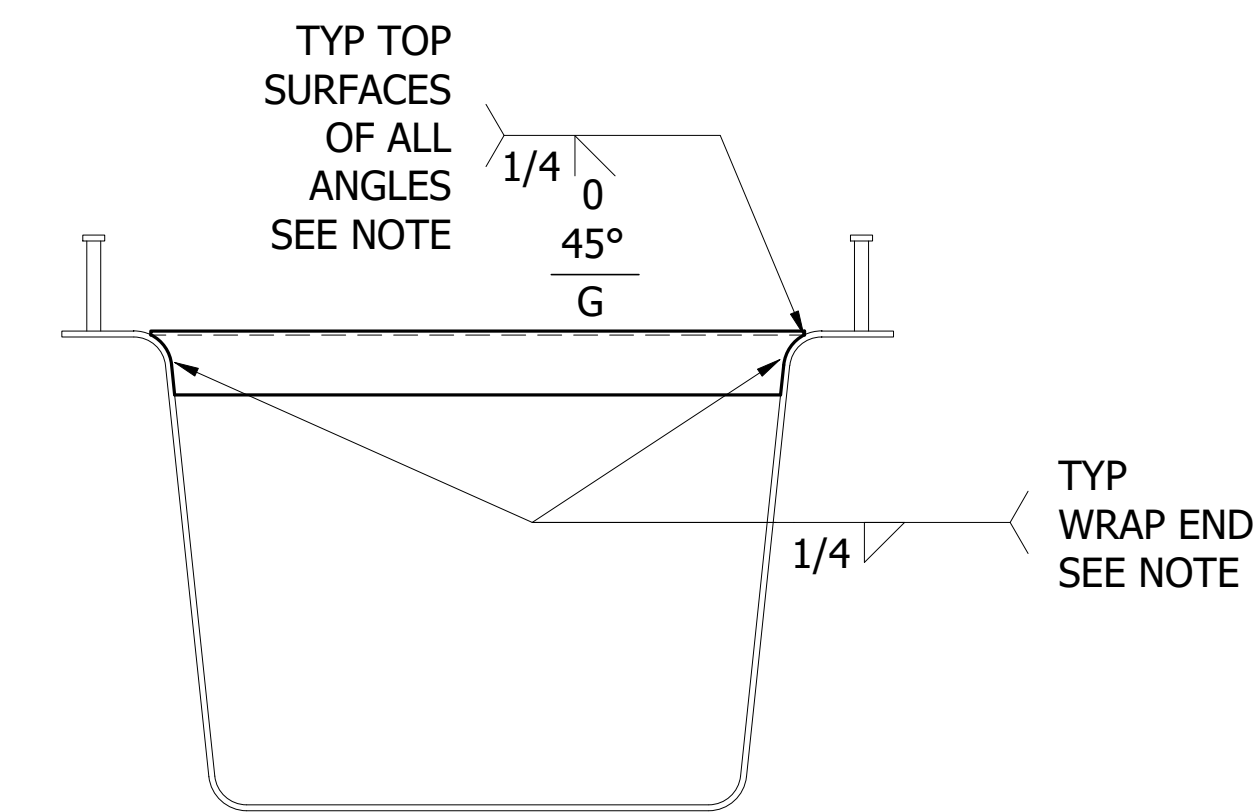
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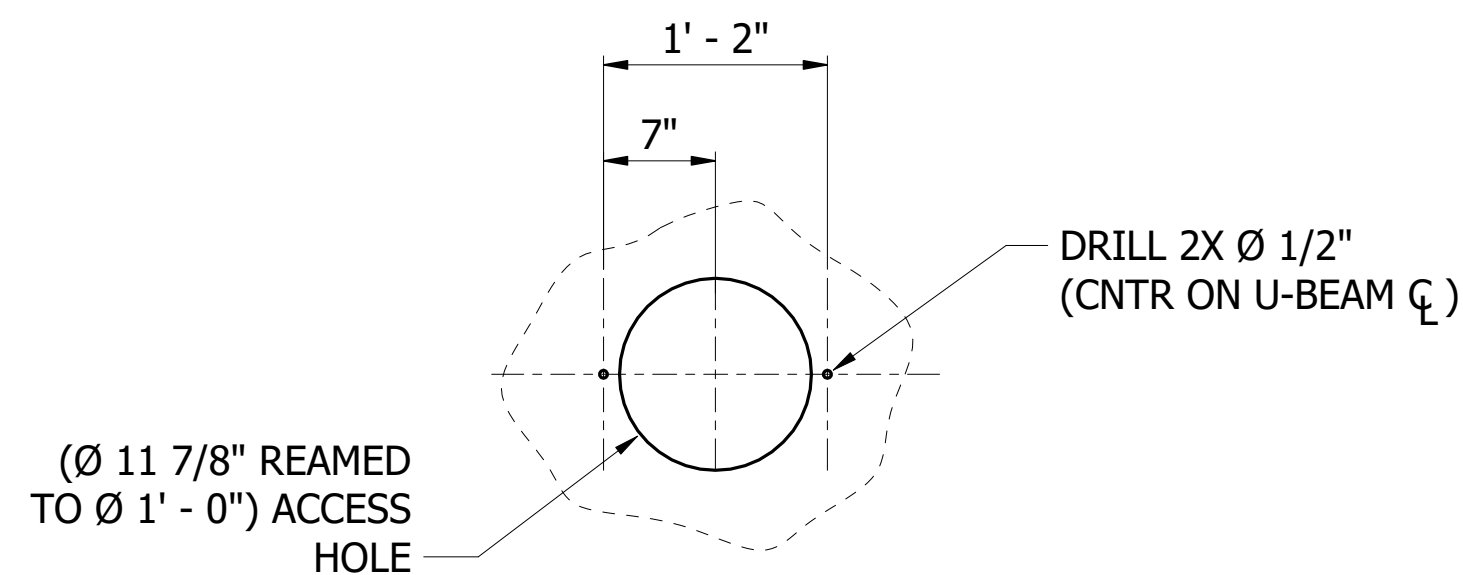
ORDER NUMBER: 529039-P1  
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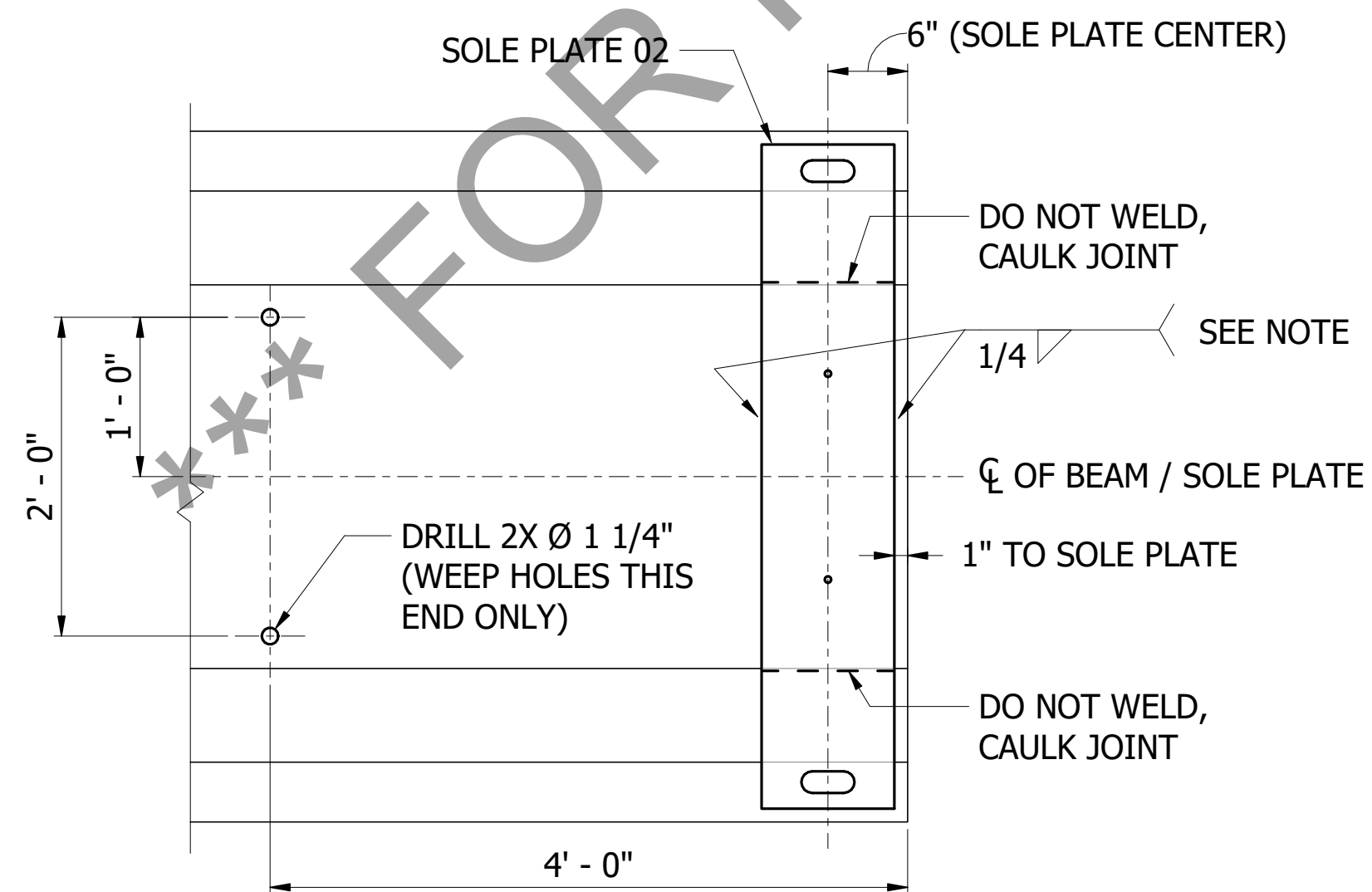
**SECTION A-A**  
(CONNECTION PLATES ARE NOT SHOWN FOR CLARITY.)



**SECTION B-B**



**DETAIL D**



**SECTION C-C**  
(EXP. SOLE PLATE)

WELD NOTE:  
- SEE WELDING SECTION ON COVER SHEET FOR WELDING SPECIFICATIONS.

NOTE:  
- REFERENCE FRAMING PLAN DRAWING FOR OVERALL GIRDER ASSEMBLY.

LABEL	DESCRIPTION	QTY PER ASSY
U-BEAM	U30 x 16' - 5 13/16" GIRDER	1
BRACE	L4x4x1/4 x 3'-4 7/8"	2
BRACE w/HOLES	L4x4x1/4 x 3'-4 7/8" w/(2) 3/4"Ø HOLES	2
CONNEX PLATE	PL 1/2" x (6 1/4" / 7 3/4") x 1'-2"	2
DIAPHRAGM	PL 3/8" x 2'-5 5/8" x 3'-2 1/4"	1
SHEAR STUD	7/8"Ø x 6" SHEAR STUD	62
SOLE PLATE 02	PL 3/4" x 10" x 4'-2" w/(2) 1/2"Ø HOLES & (2) 1 5/8"Ø x 4" SLOTTED HOLES	1
SOLE PLATE 03	PL 3/4" x 10" x 2'-4"	1
TAG	ID TAG	1

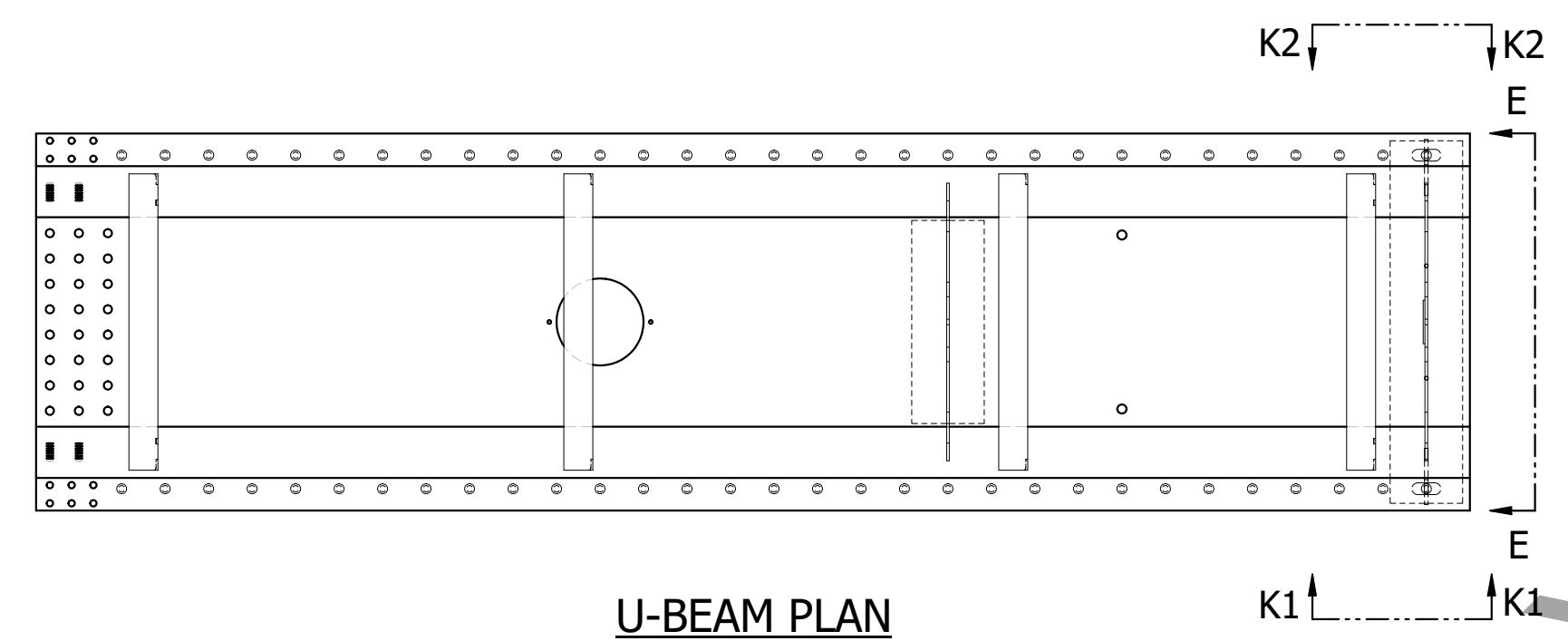
JOB IMPERIAL CO., CA.  
DOGWOOD ROAD OVER CENTRAL MAIN CANAL  
BRIDGE NO: 58C-0226 / COUNTY PROJECT 6222

TITLE C1-3 SHEET 1

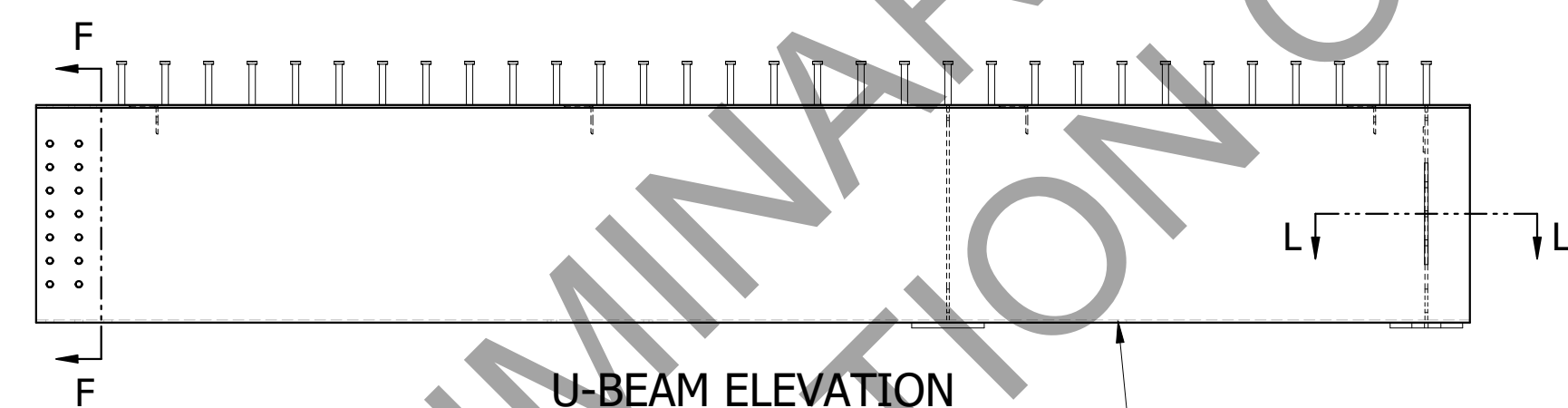
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ORDER NUMBER: 529039-P1  
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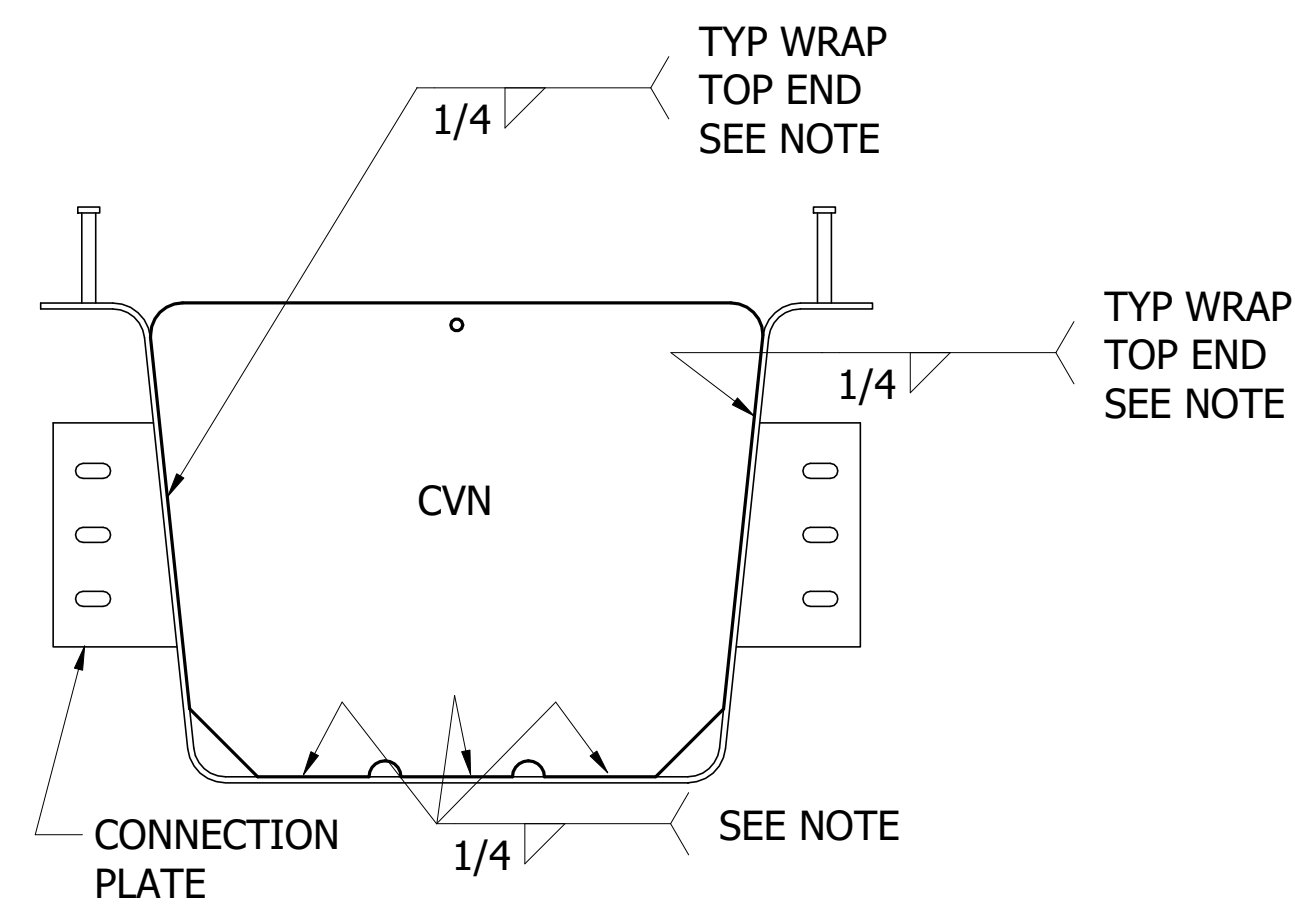


U-BEAM PLAN



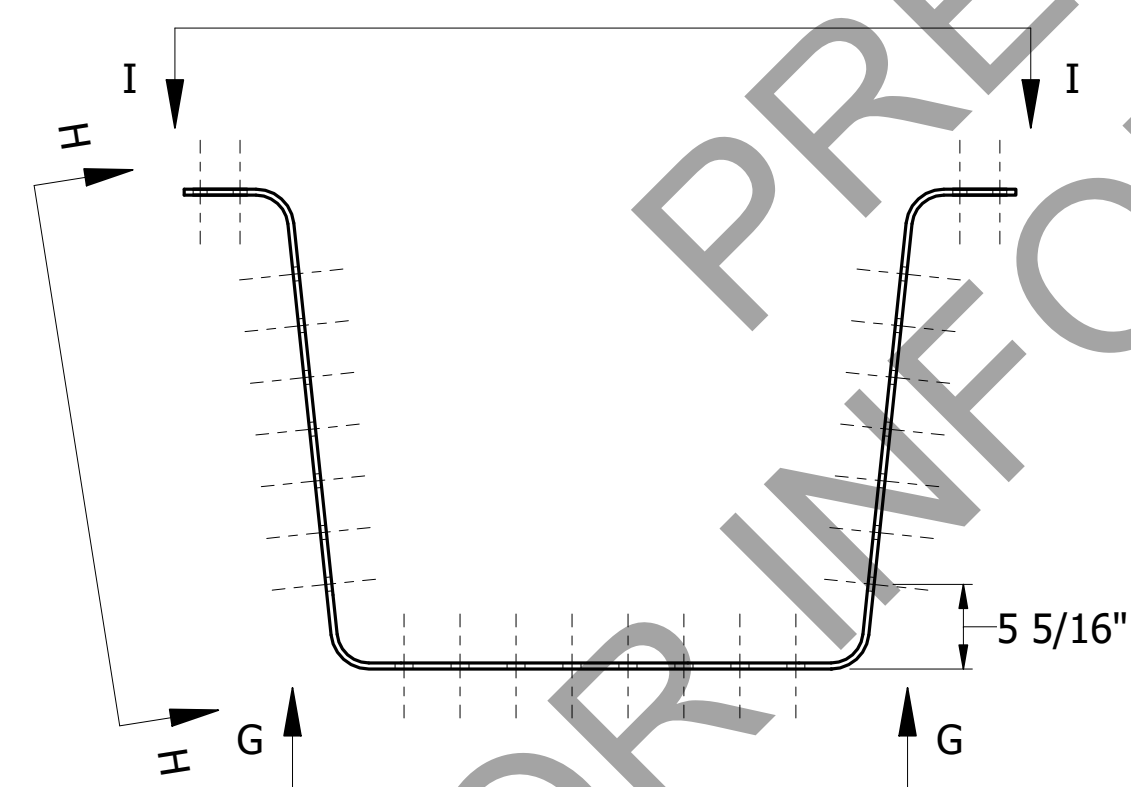
U-BEAM ELEVATION

U-BEAM REQUIRES CHARPY V-NOTCH TESTING. (CVN)

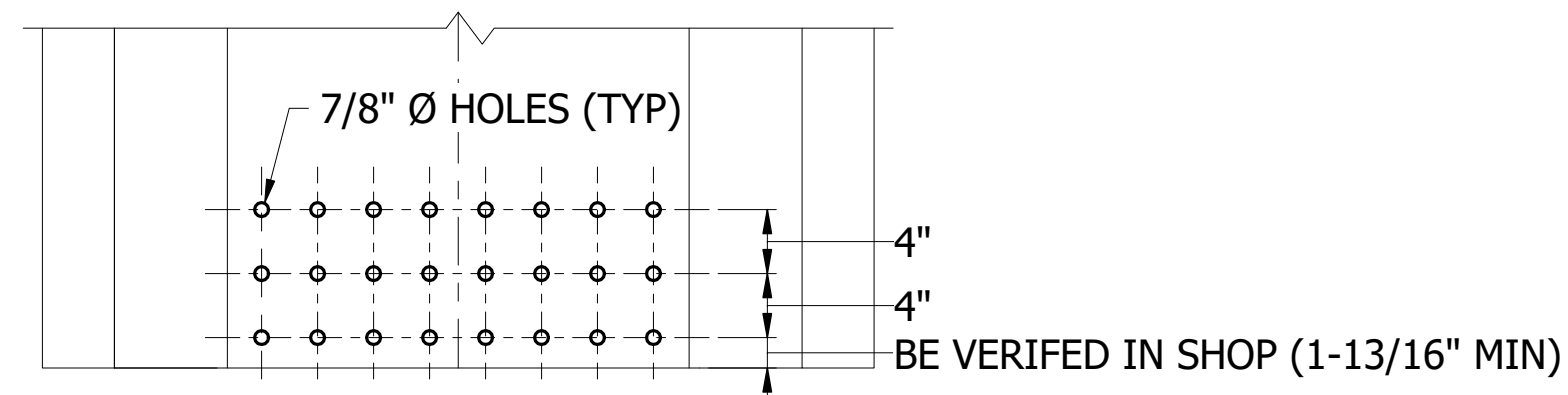


SECTION E-E

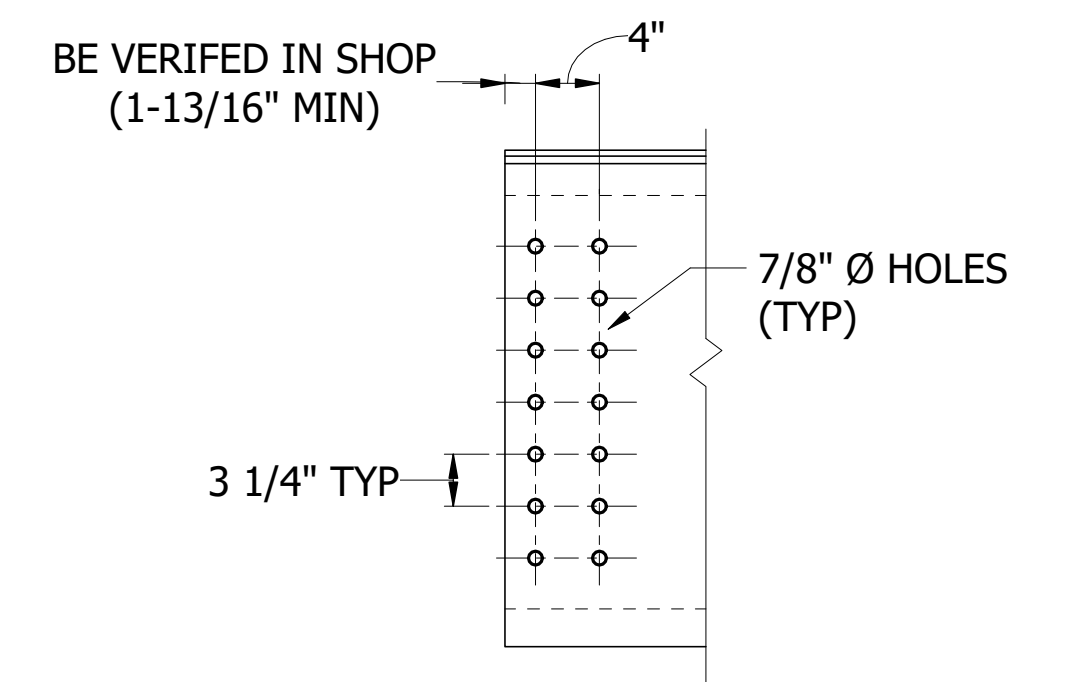
WELD DIAPHRAGM ON OUTSIDE ONLY (TYP)  
(LOOKING NORMAL TO DIAPHRAGM  
AND CONNECTION PLATES)



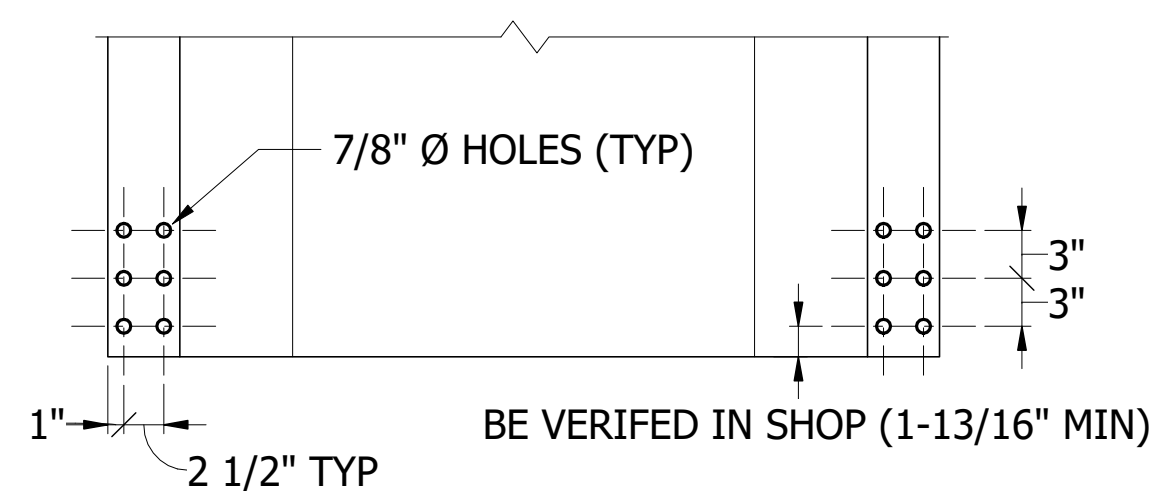
SECTION F-F



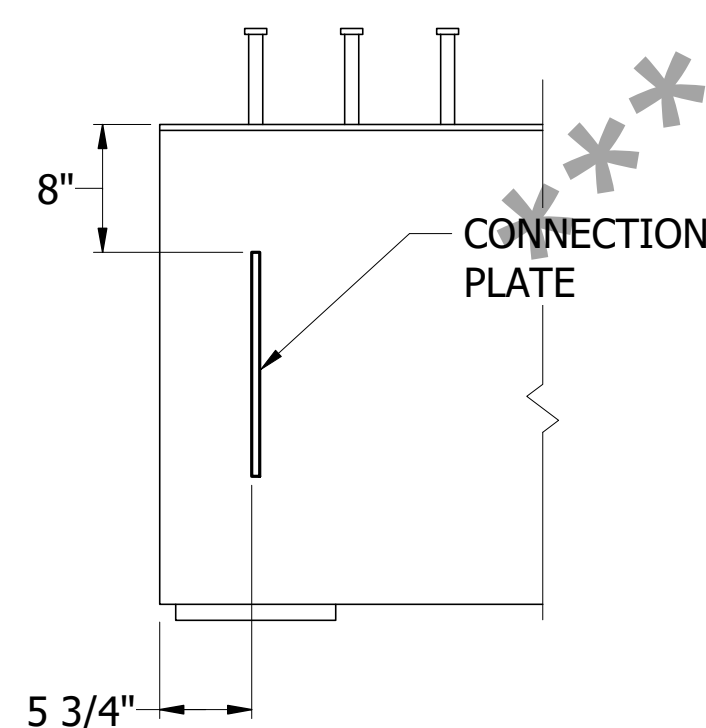
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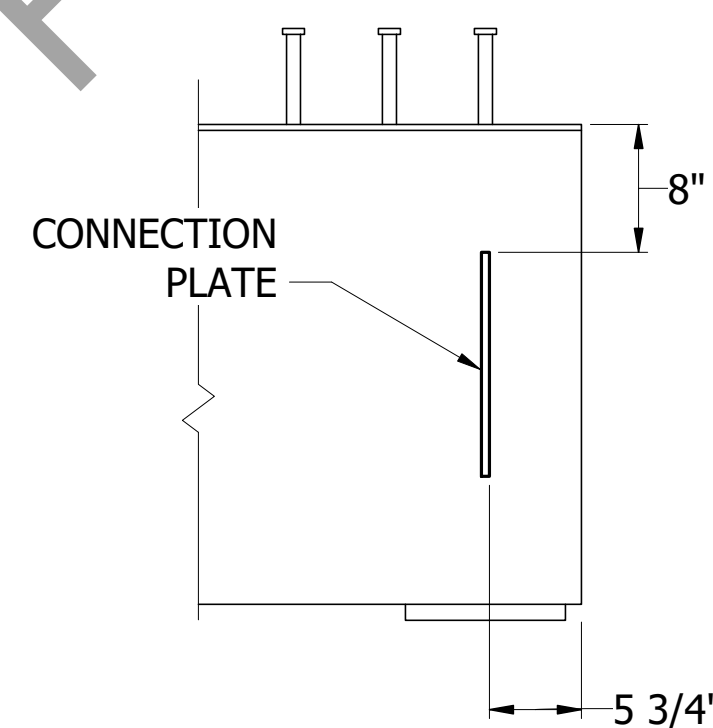
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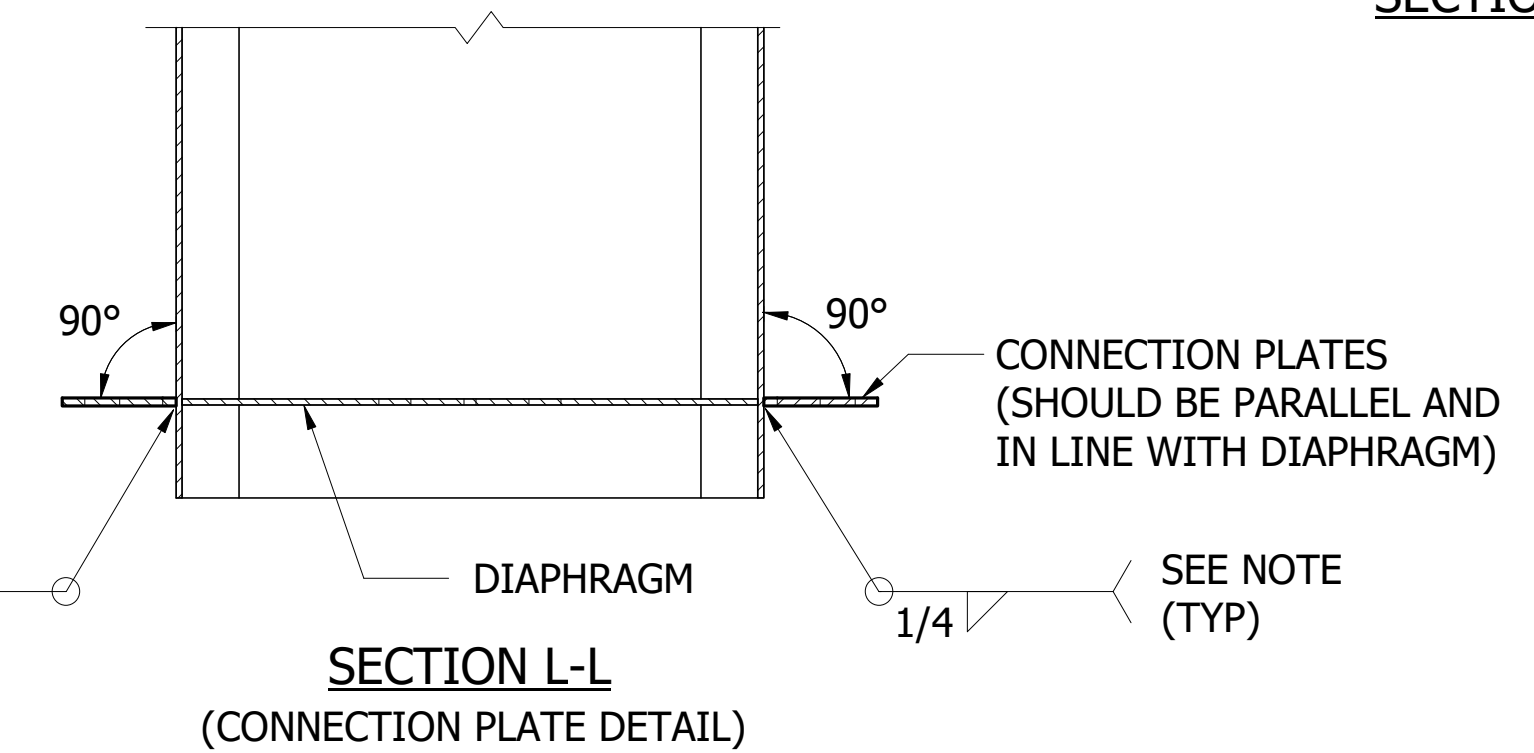
SECTION I-I



SECTION K1-K1



SECTION K2-K2



SECTION L-L  
(CONNECTION PLATE DETAIL)

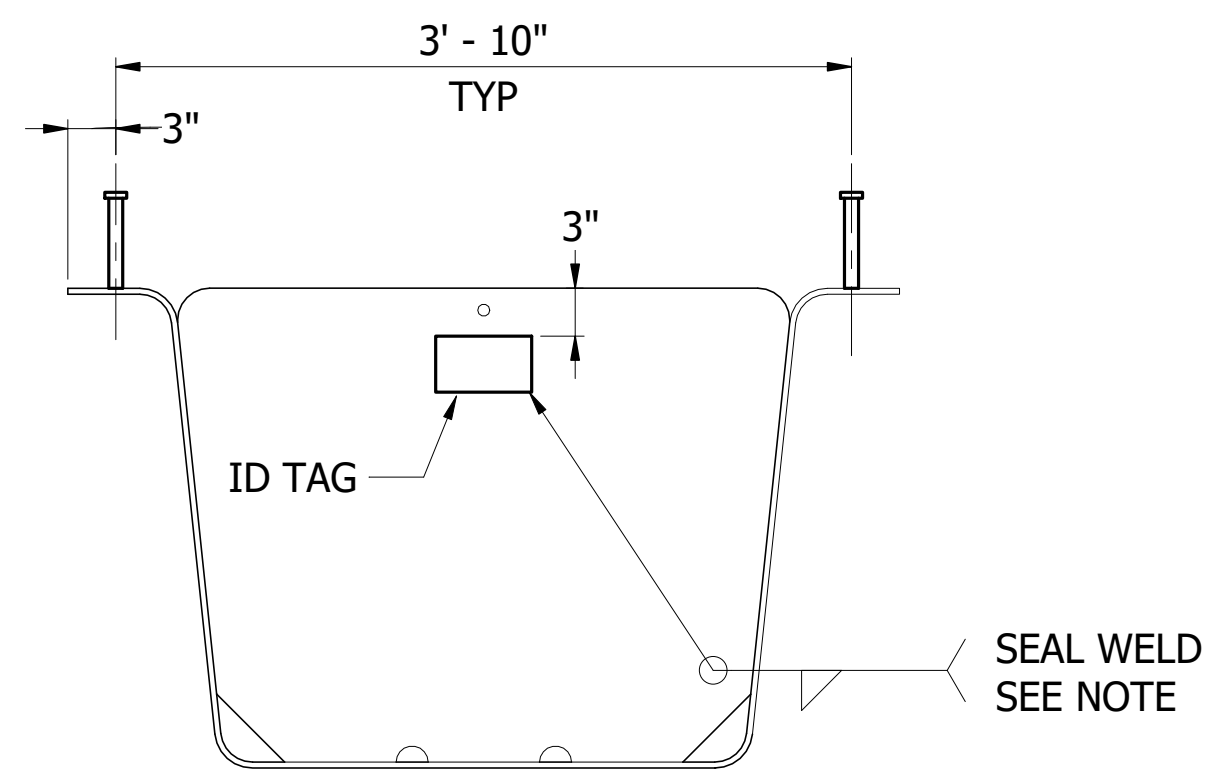
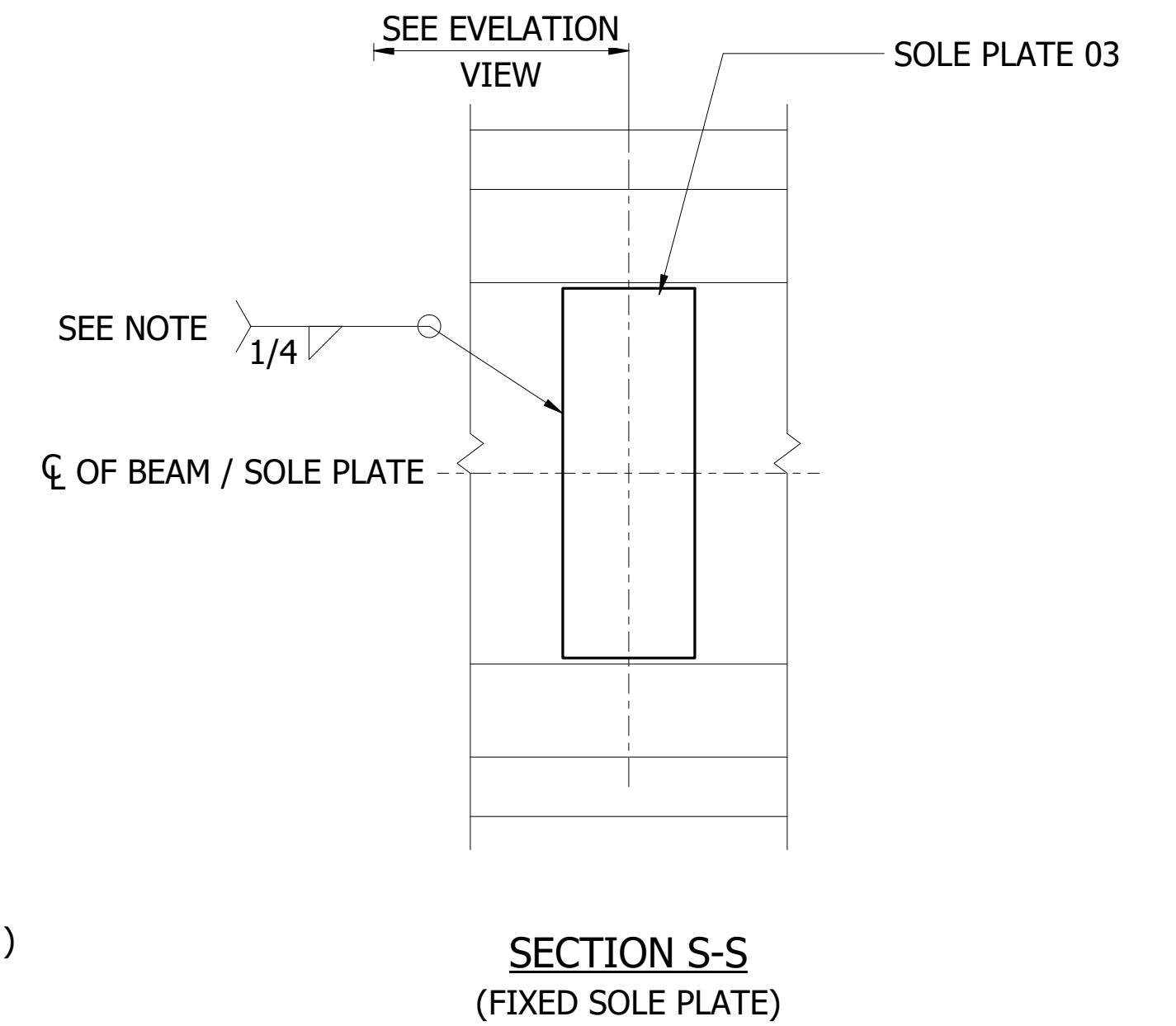
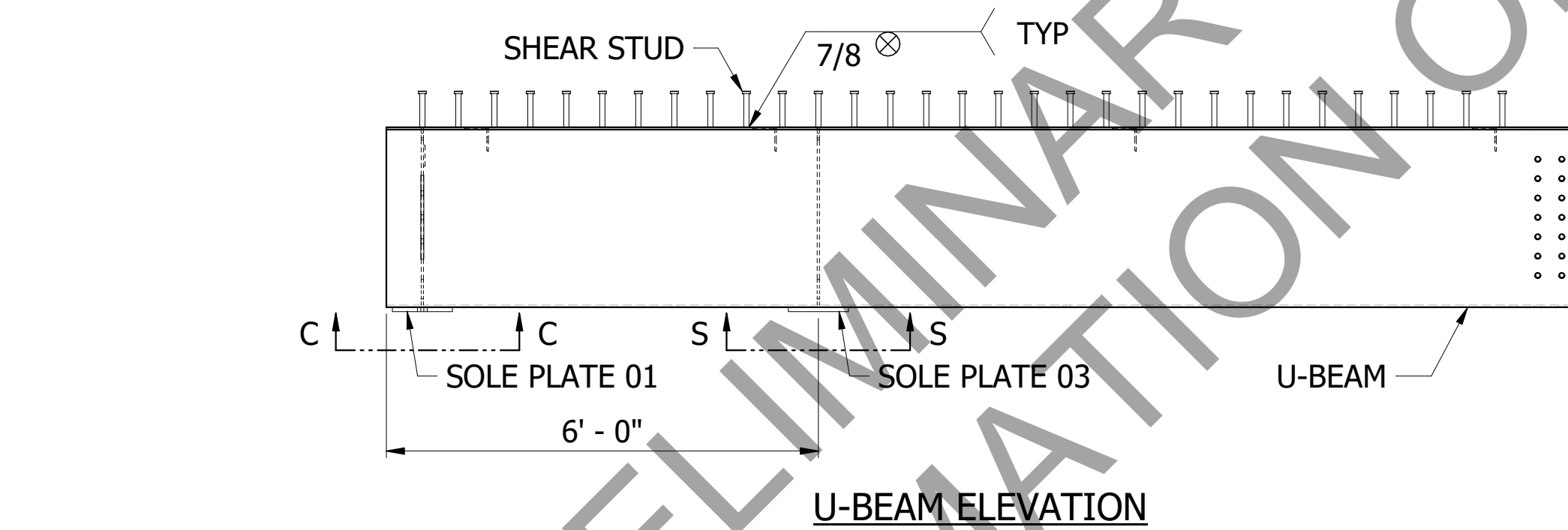
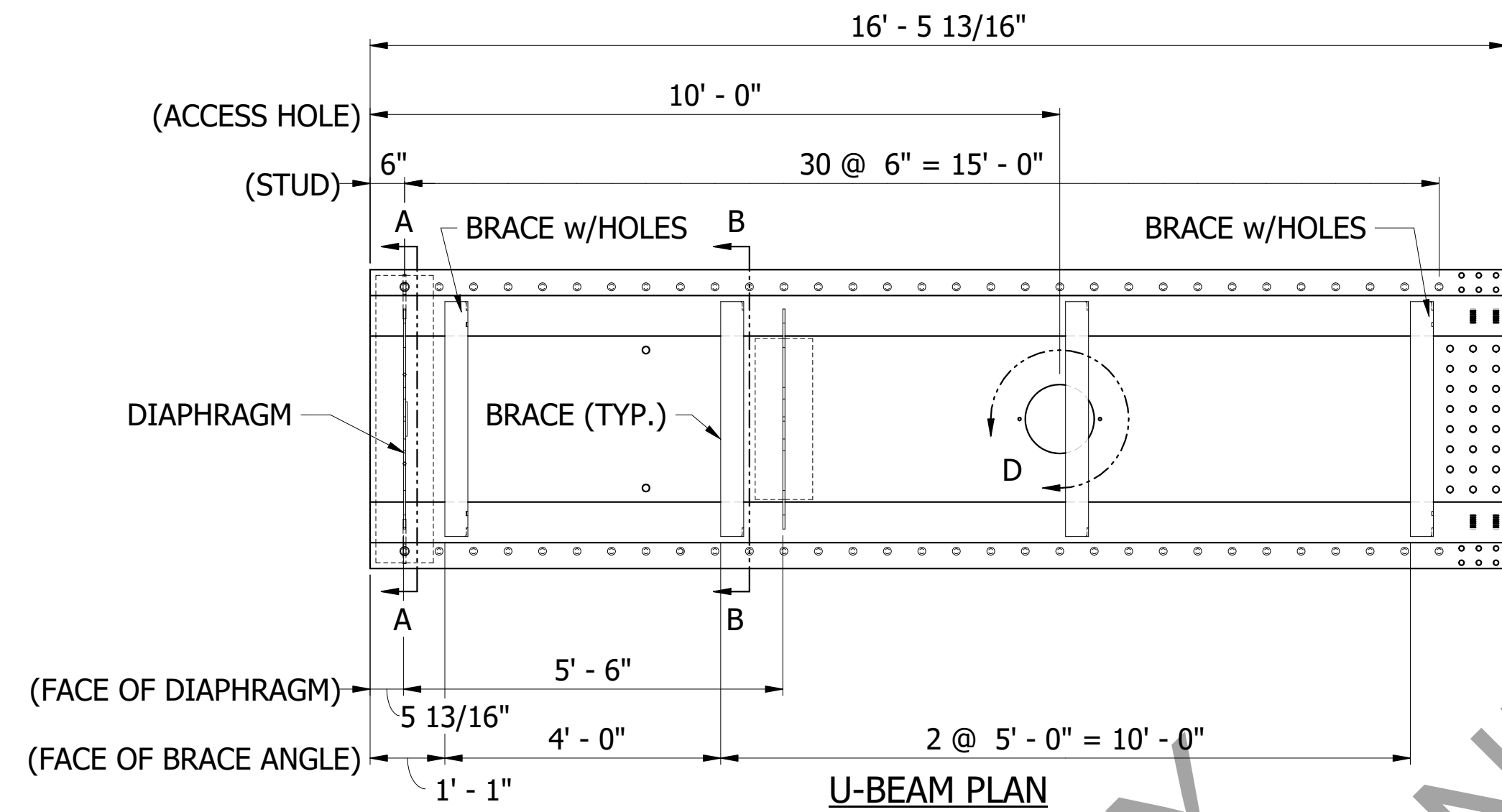
JOB IMPERIAL CO., CA.  
DOGWOOD ROAD OVER CENTRAL MAIN CANAL  
BRIDGE NO: 58C-0226 / COUNTY PROJECT 6222

TITLE C1-3 SHEET 2

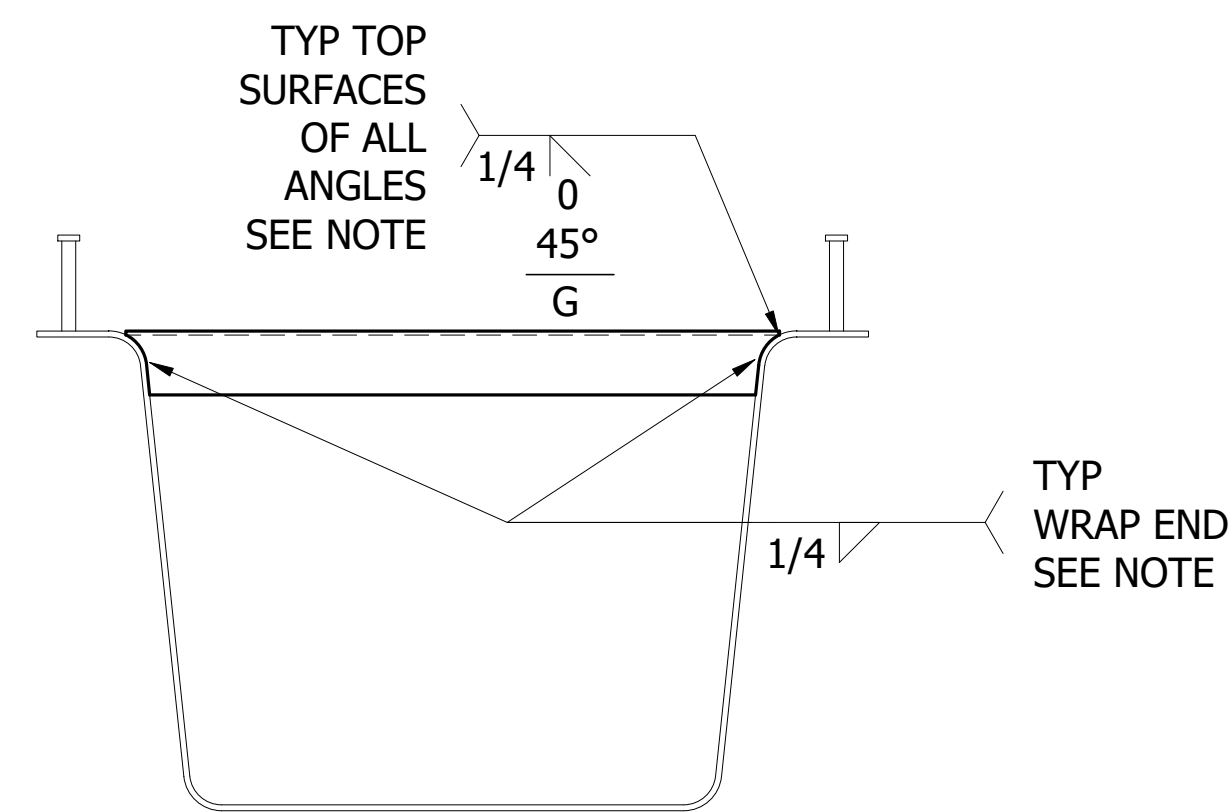
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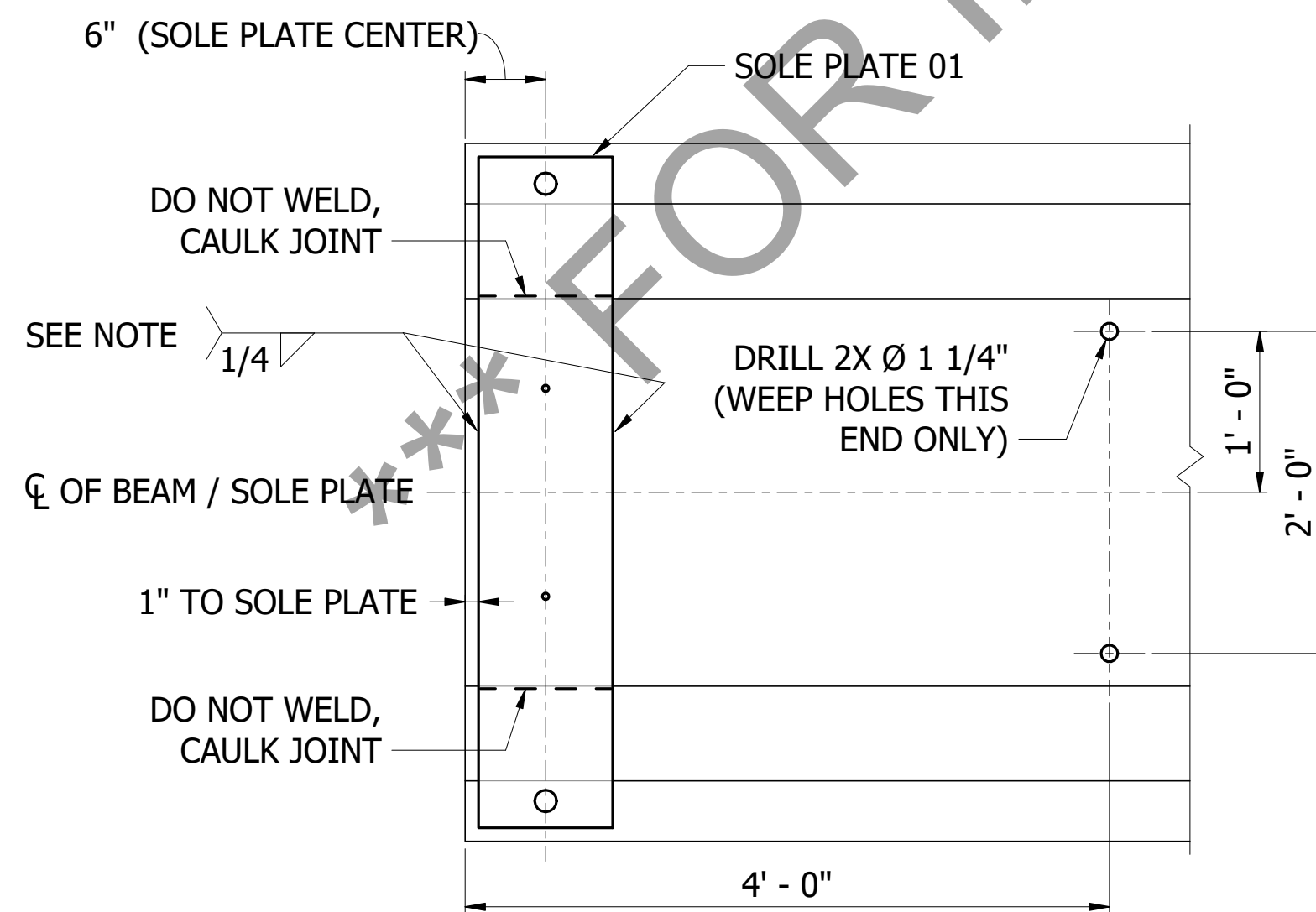
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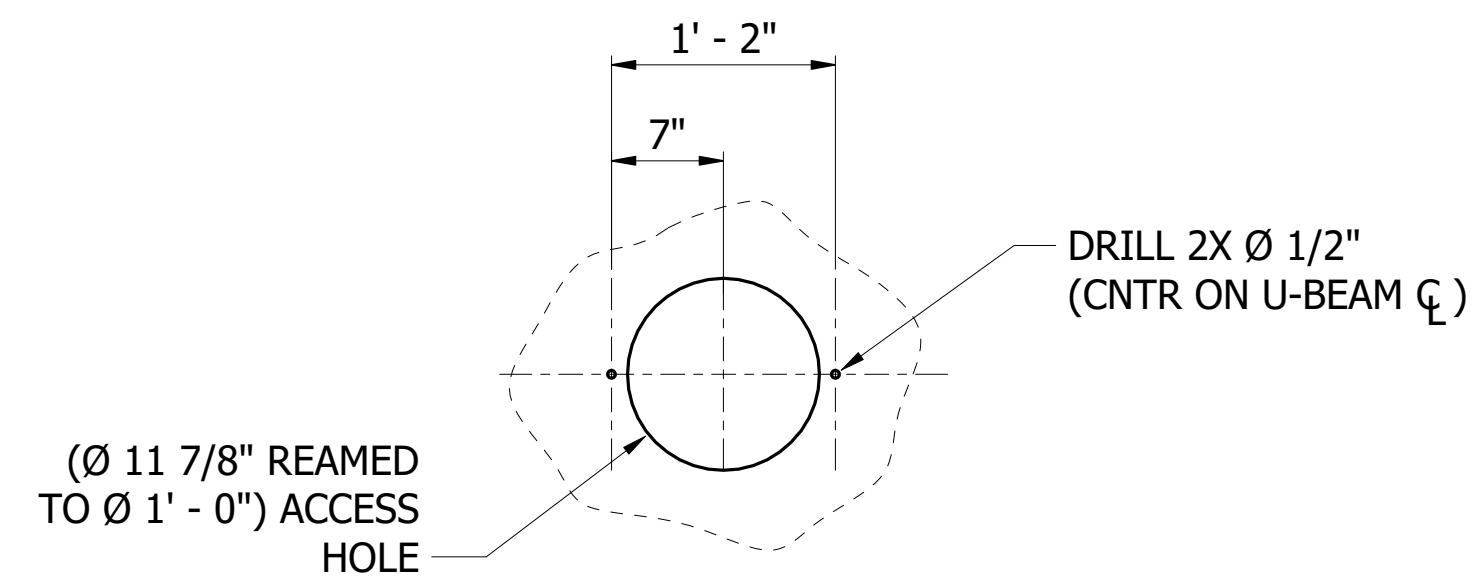
**SECTION A-A**  
(CONNECTION PLATES ARE NOT SHOWN FOR CLARITY.)



**SECTION B-B**



**SECTION C-C**  
(FIXED SOLE PLATE)



**DETAIL D**

WELD NOTE:  
- SEE WELDING SECTION ON COVER SHEET FOR WELDING SPECIFICATIONS.

NOTE:  
- REFERENCE FRAMING PLAN DRAWING FOR OVERALL GIRDER ASSEMBLY.

LABEL	DESCRIPTION	QTY PER ASSY
U-BEAM	U30 x 16' - 5 13/16" GIRDER	1
BRACE	L4x4x1/4 x 3'-4 7/8"	2
BRACE w/HOLES	L4x4x1/4 x 3'-4 7/8" w/(2) 3/4"Ø HOLES	2
CONNEX PLATE	PL 1/2" x (6 1/4" / 7 3/4") x 1'-2"	2
DIAPHRAGM	PL 3/8" x 2'-5 5/8" x 3'-2 1/4"	2
SHEAR STUD	7/8"Ø x 6" SHEAR STUD	62
SOLE PLATE 01	PL 3/4" x 10" x 4'-2" w/(2) 1 5/8"Ø & (2) 1/2"Ø HOLES	1
SOLE PLATE 03	PL 3/4" x 10" x 2'-4"	1
TAG	ID TAG	1

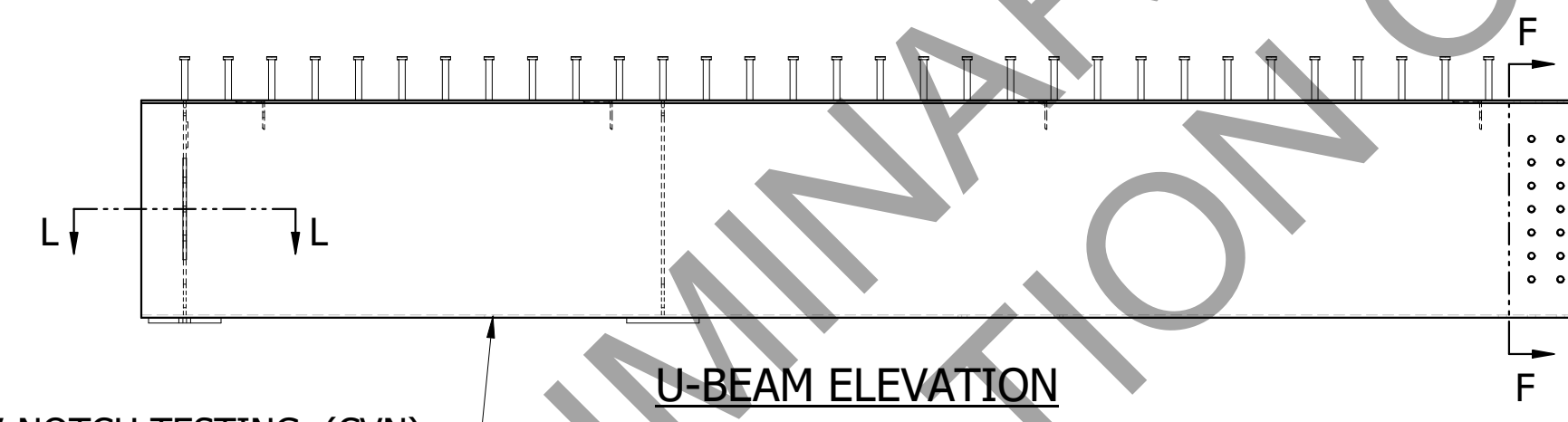
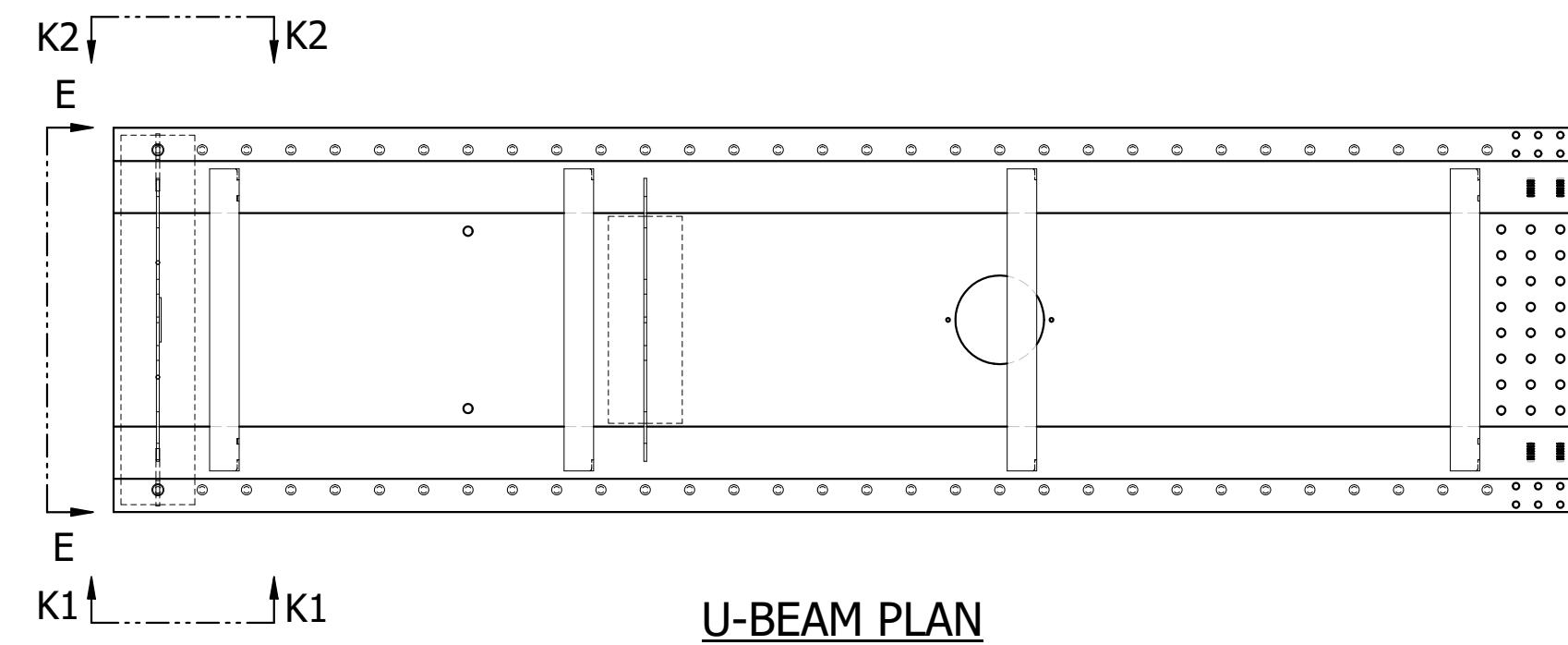
JOB IMPERIAL CO., CA.  
DOGWOOD ROAD OVER CENTRAL MAIN CANAL  
BRIDGE NO: 58C-0226 / COUNTY PROJECT 6222

TITLE D1-1 SHEET 1

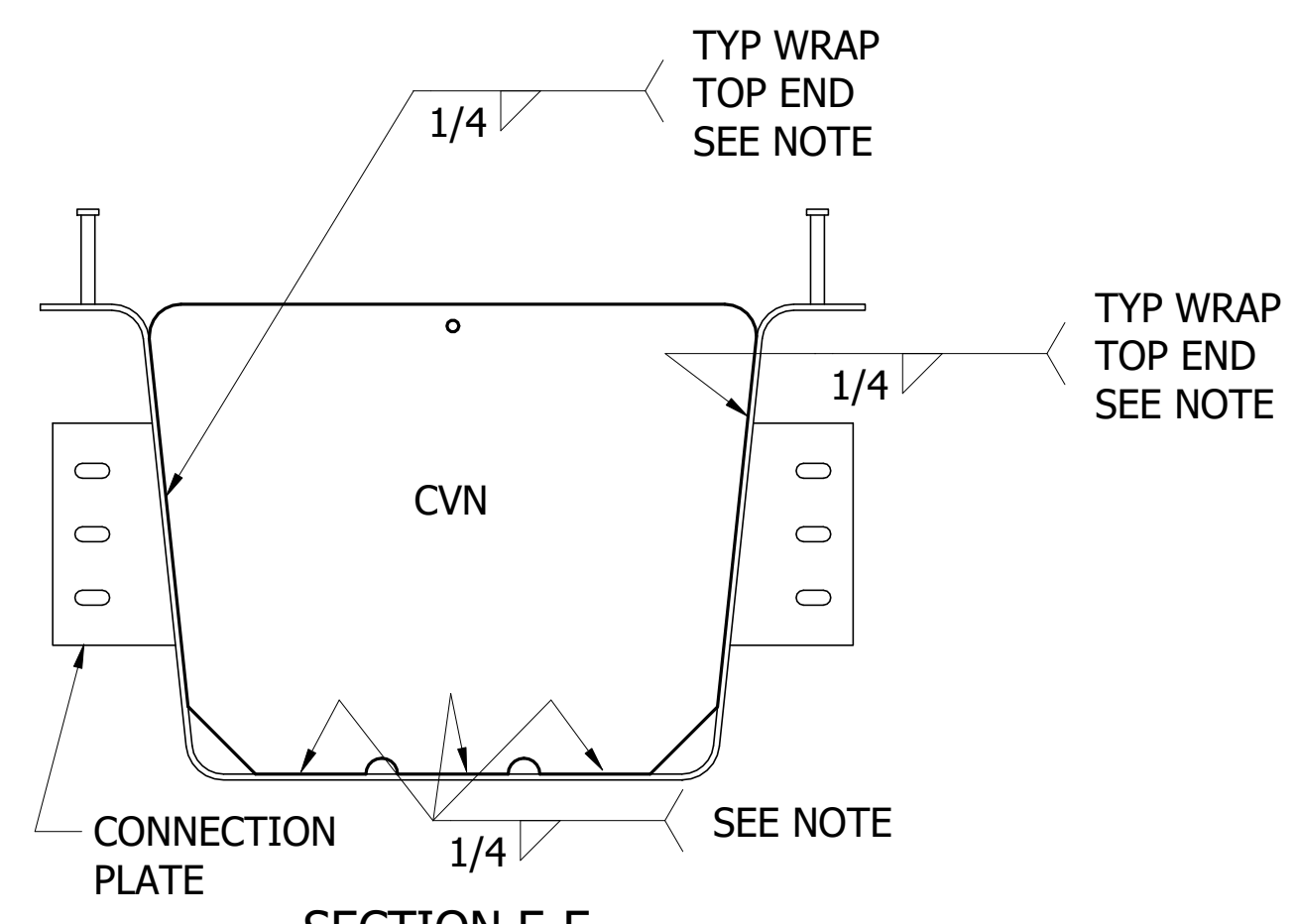
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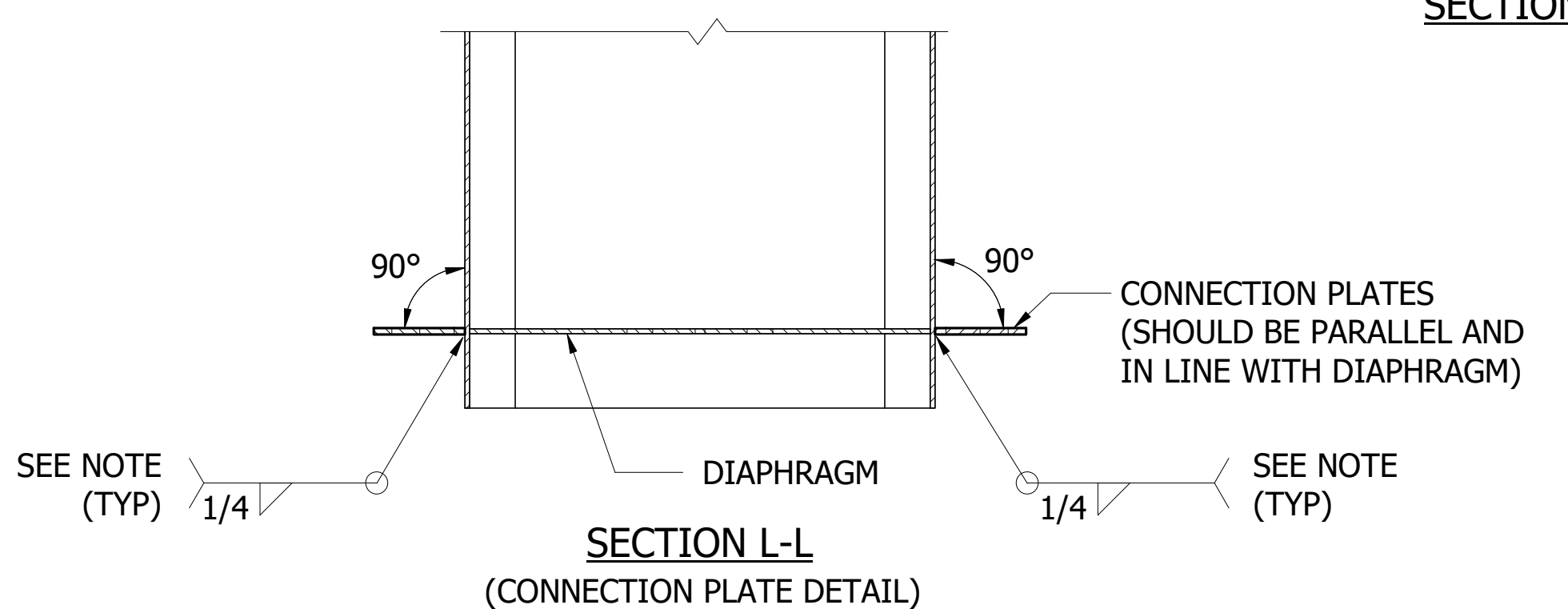
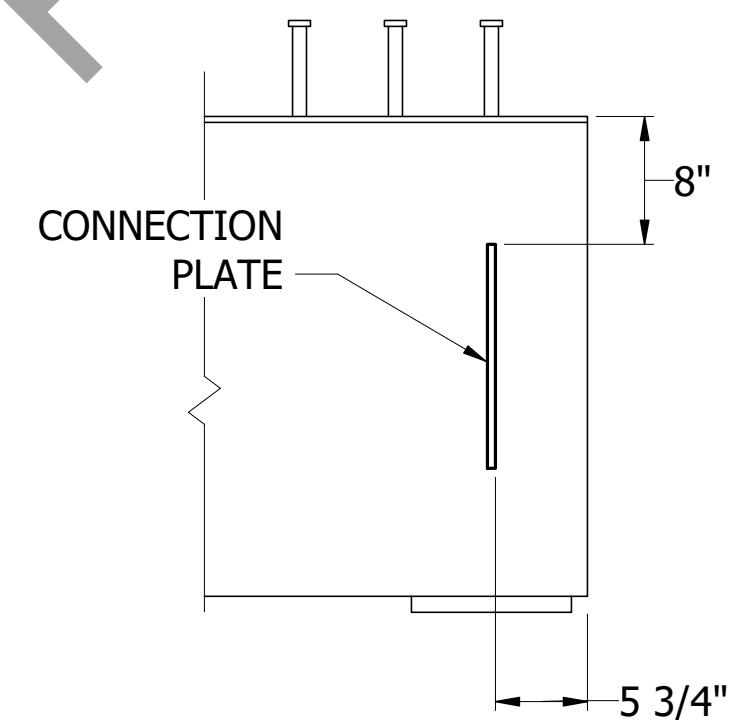
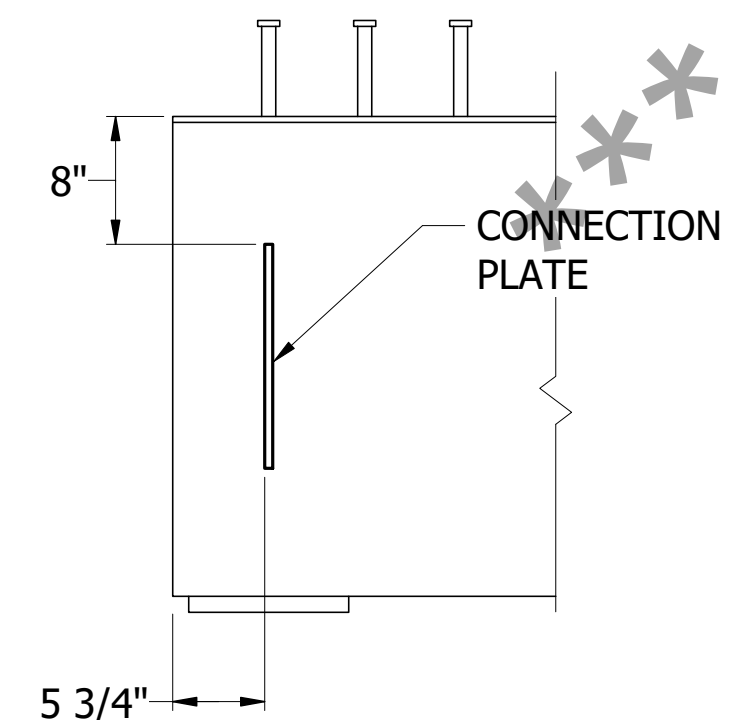
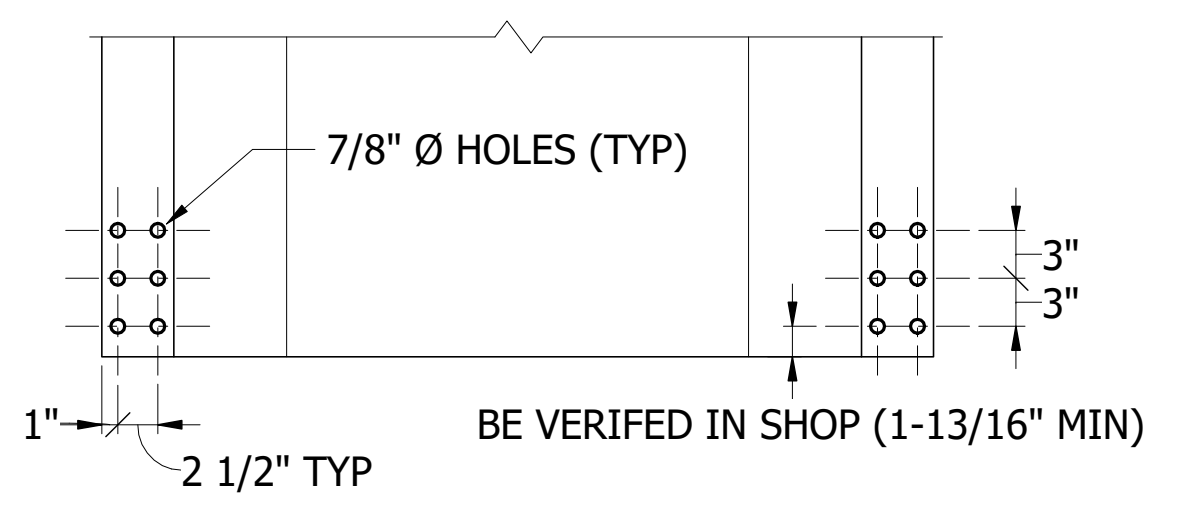
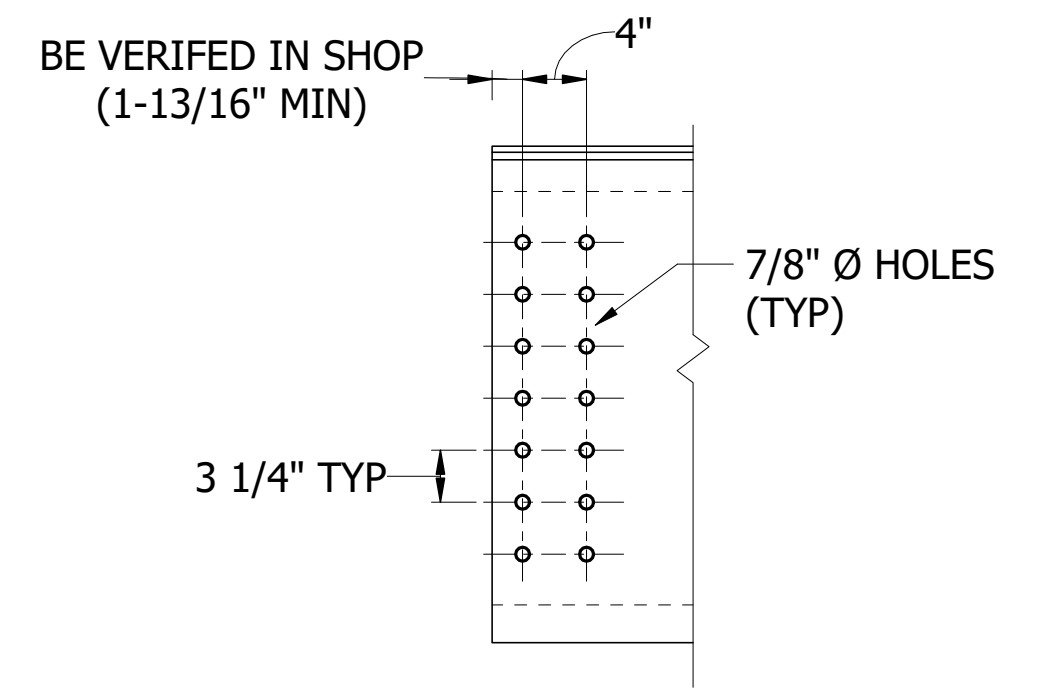
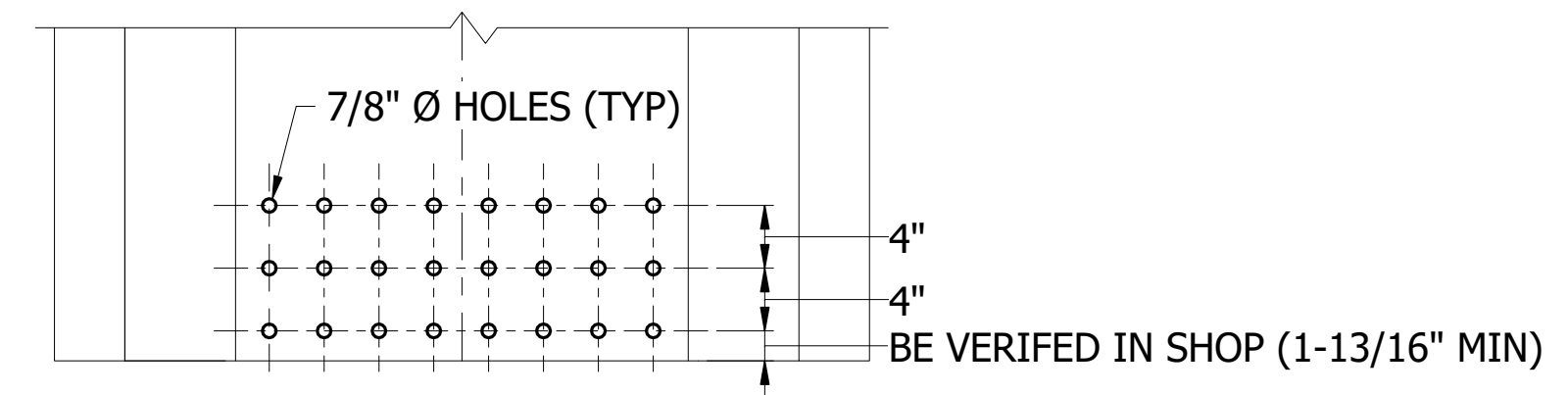
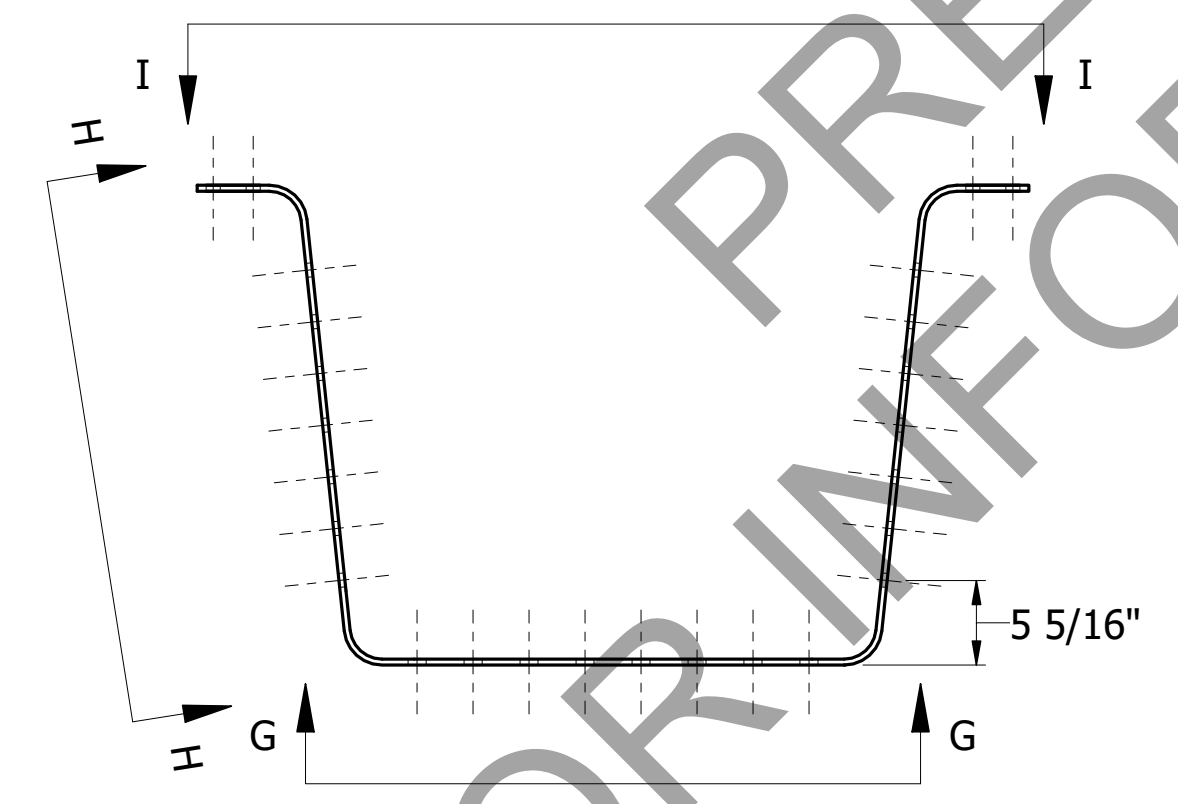
ORDER NUMBER: 529039-P1  
PAGE NUMBER: 21 OF 53  
DRAWING NUMBER: 529039P1  
REV



U-BEAM REQUIRES CHARPY V-NOTCH TESTING. (CVN)



WELD DIAPHRAGM ON OUTSIDE ONLY (TYP)  
(LOOKING NORMAL TO DIAPHRAGM AND CONNECTION PLATES)



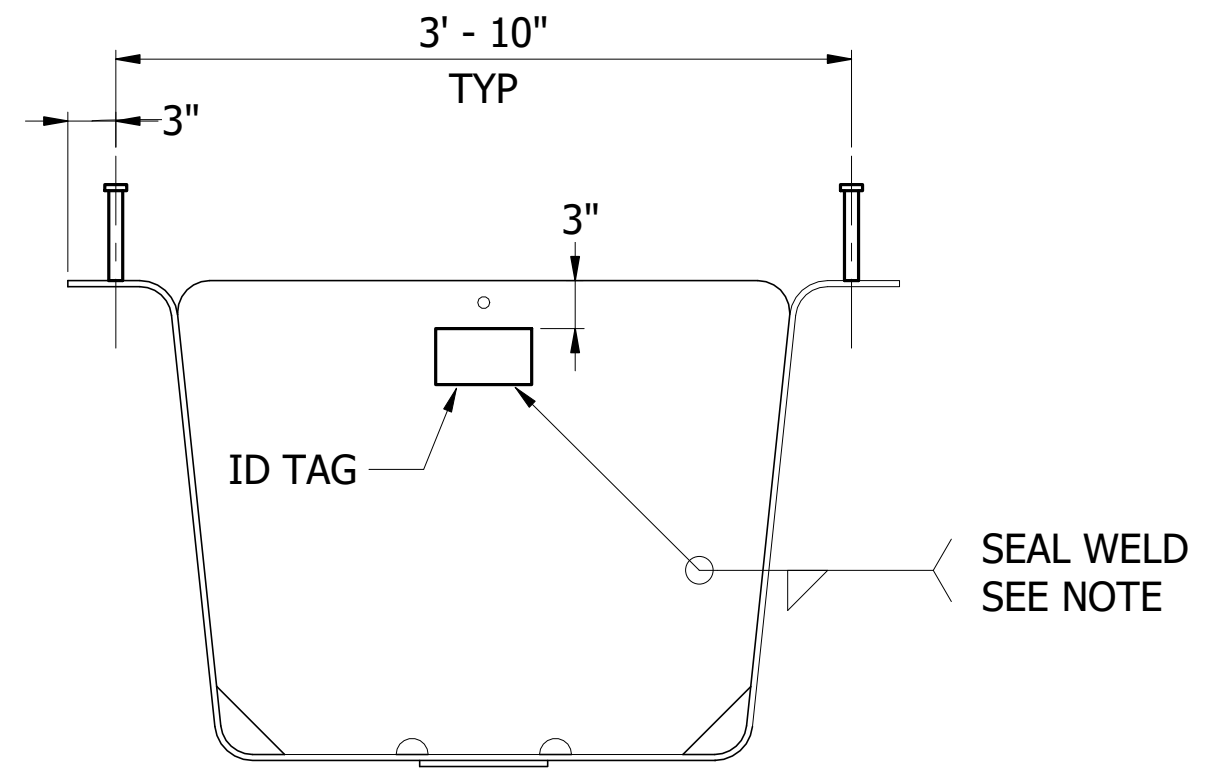
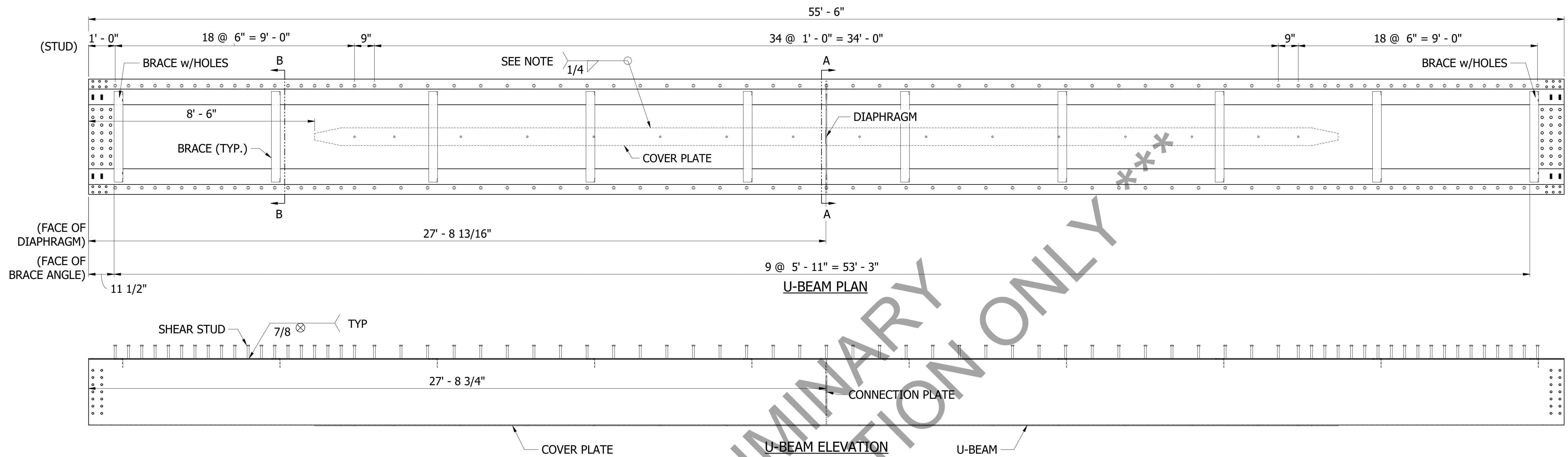
JOB IMPERIAL CO., CA.  
DOGWOOD ROAD OVER CENTRAL MAIN CANAL  
BRIDGE NO: 58C-0226 / COUNTY PROJECT 6222

TITLE D1-1 SHEET 2

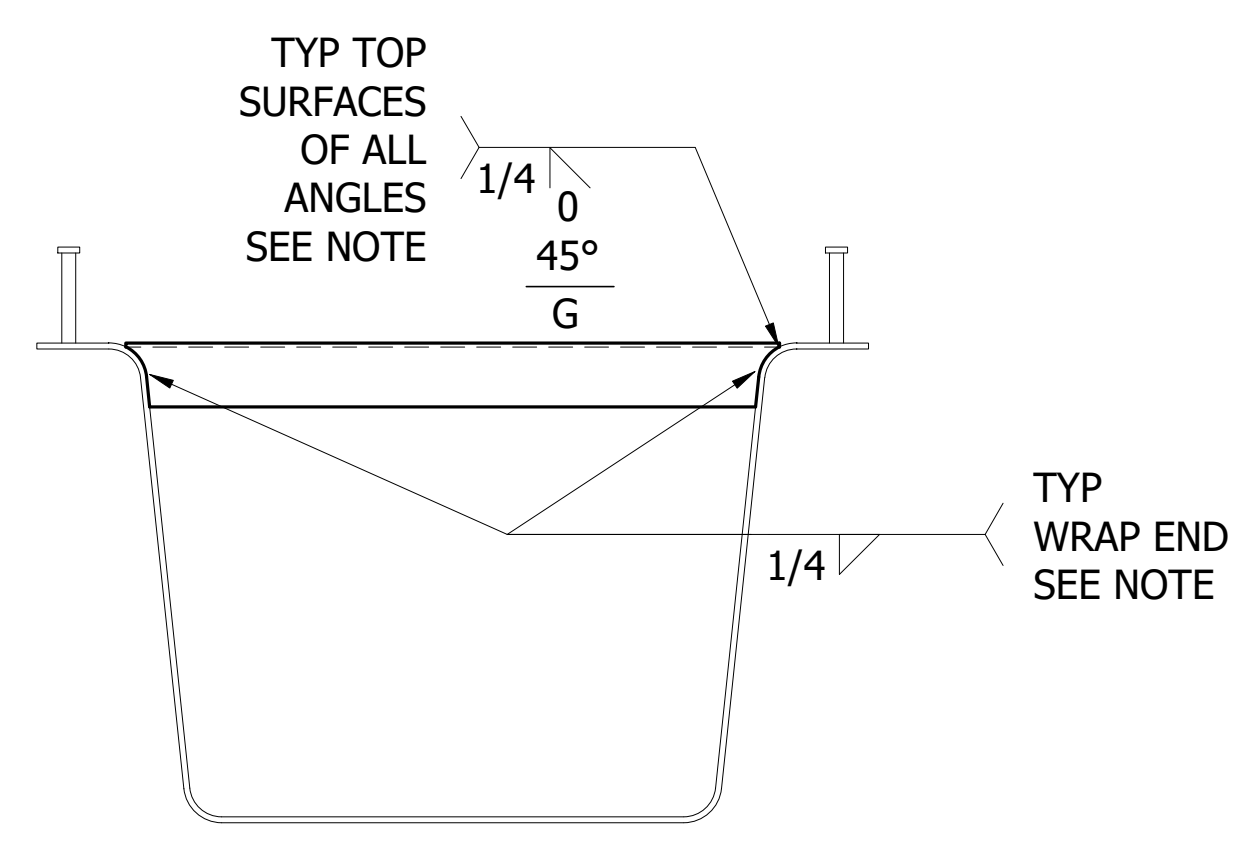
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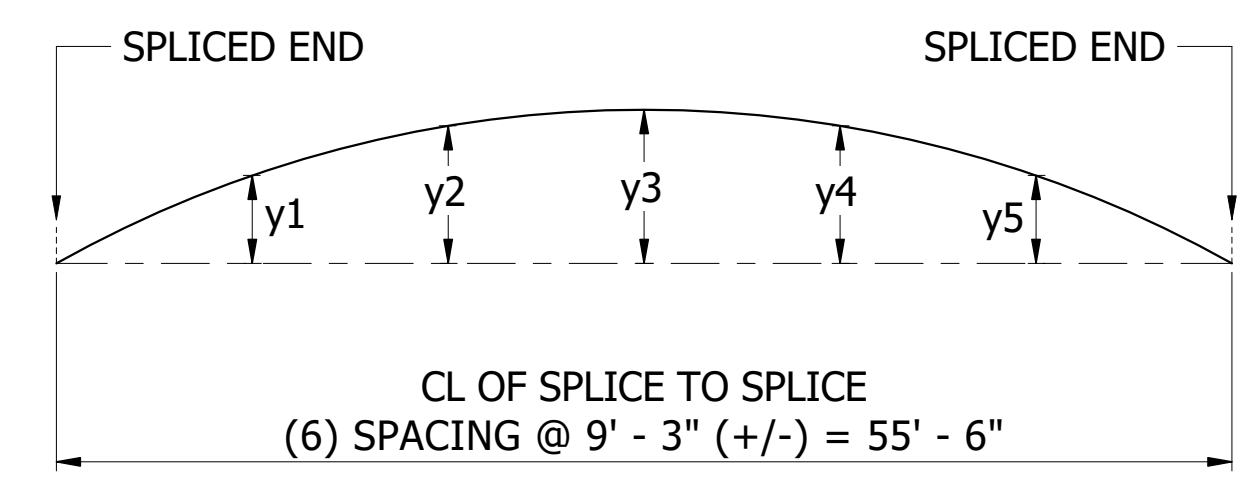
ORDER NUMBER: 529039-P1  
PAGE NUMBER: 22 OF 53  
DRAWING NUMBER: 529039P1  
REV



**SECTION A-A**  
(CONNECTION PLATES ARE NOT SHOWN FOR CLARITY.)



**SECTION B-B**



**CAMBER DIAGRAM**

CAMBER ORDINATES	U-BEAM D1-2
y1	1 7/8"
y2	2 15/16"
y3	3 5/16"
y4	2 15/16"
y5	1 7/8"

**WELD NOTE:**  
- SEE WELDING SECTION ON COVER SHEET FOR WELDING SPECIFICATIONS.

**NOTE:**  
- REFERENCE FRAMING PLAN DRAWING FOR OVERALL GIRDER ASSEMBLY.

LABEL	DESCRIPTION	QTY PER ASSY
U-BEAM	U30 x 55' - 6" GIRDER	1
BRACE	L4x4x1/4 x 3'-4 7/8"	8
BRACE w/HOLES	L4x4x1/4 x 3'-4 7/8" w/(2) 3/4"Ø HOLES	2
CONNEX PLATE	PL 1/2" x (6 1/4" / 7 3/4") x 1'-2"	2
COVER PLATE	PL 3/8" x 8" x 38' - 6"	1
DIAPHRAGM	PL 3/8" x 2'-5 5/8" x 3'-2 1/4"	1
SHEAR STUD	7/8"Ø x 6" SHEAR STUD	146
TAG	ID TAG	1

JOB IMPERIAL CO., CA.  
DOGWOOD ROAD OVER CENTRAL MAIN CANAL  
BRIDGE NO: 58C-0226 / COUNTY PROJECT 6222

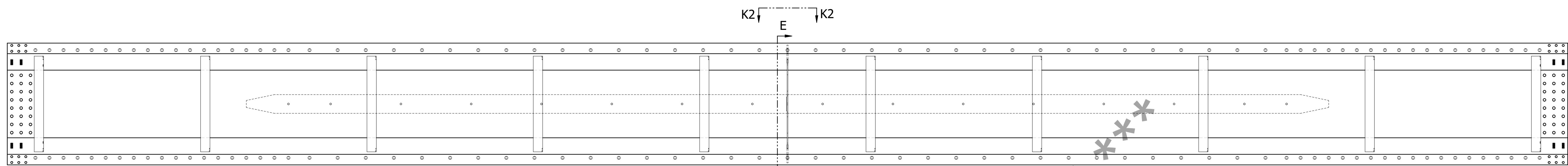
TITLE D1-2 SHEET 1

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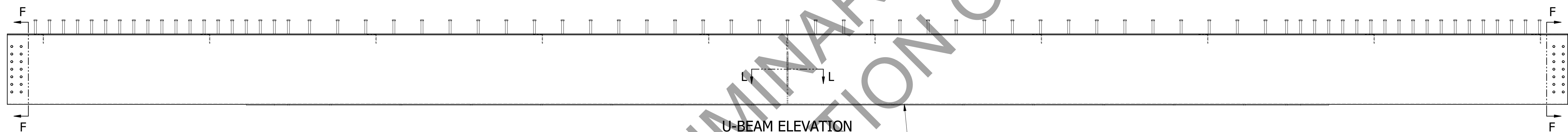


ORDER NUMBER: 529039-P1  
PAGE NUMBER: 23 OF 53  
DRAWING NUMBER: 529039P1  
REV

\*\*\* PRELIMINARY FOR INFORMATION ONLY \*\*\*

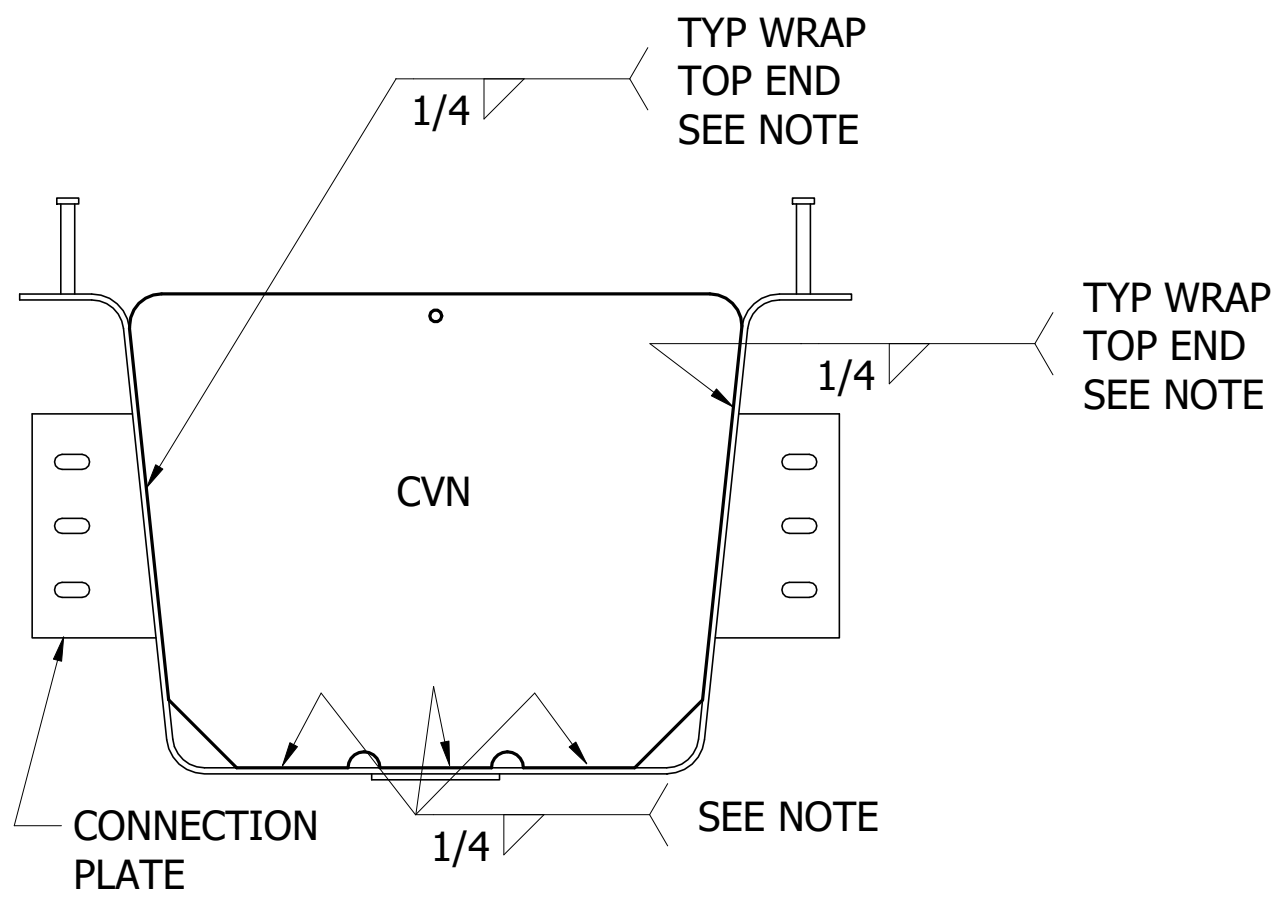


U-BEAM PLAN



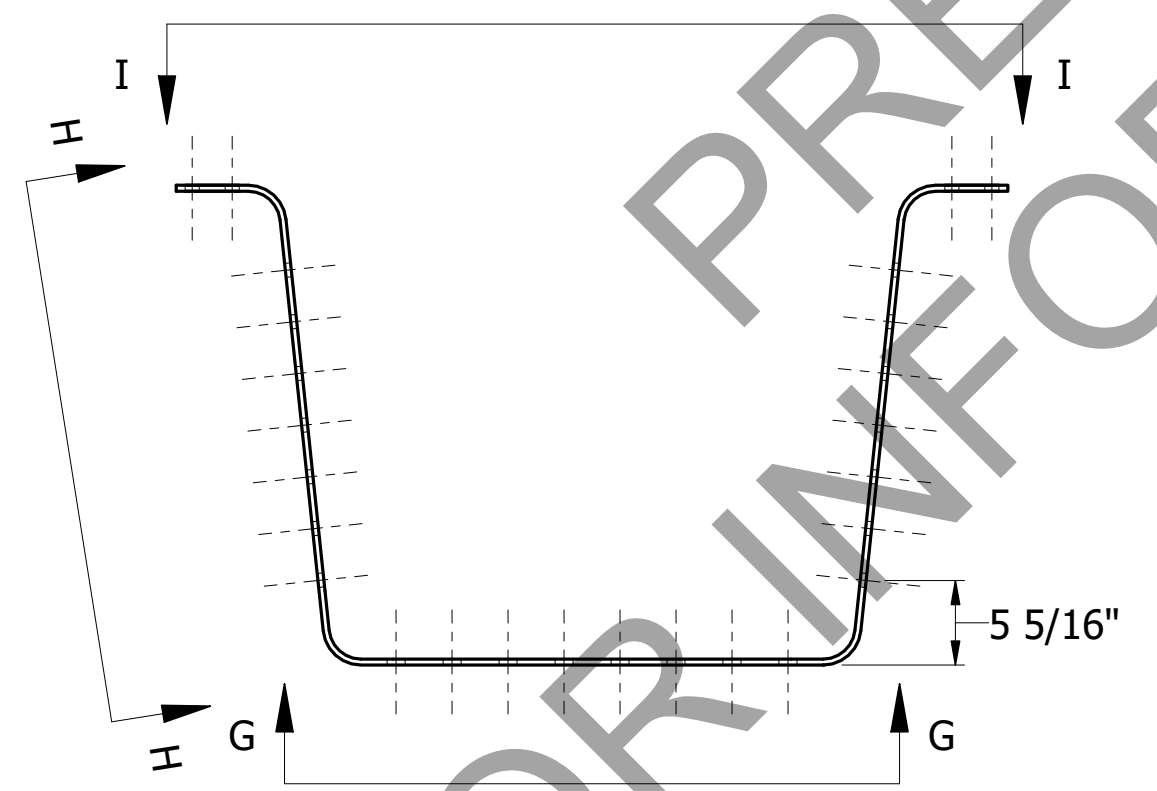
U-BEAM ELEVATION

U-BEAM REQUIRES CHARPY V-NOTCH TESTING. (CVN)

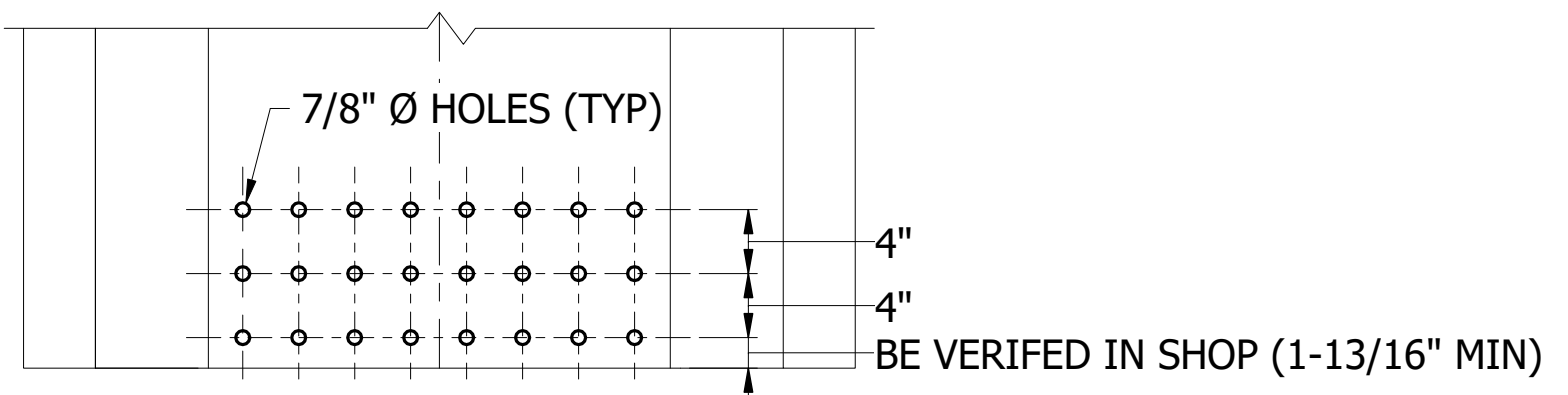


SECTION E-E

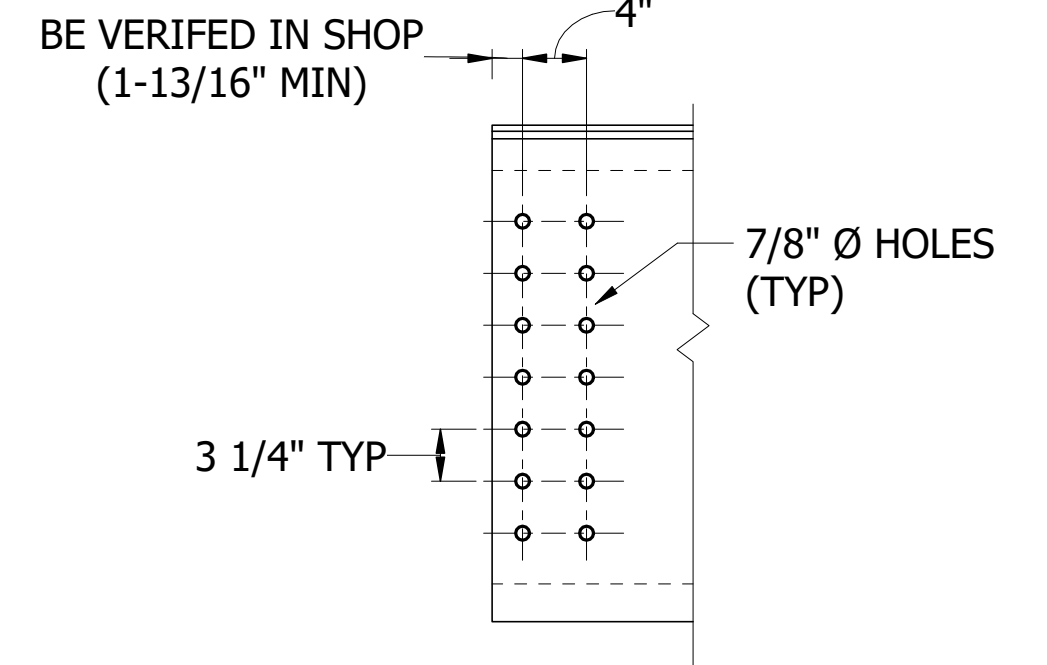
WELD DIAPHRAGM ON OUTSIDE ONLY (TYP)  
(LOOKING NORMAL TO DIAPHRAGM AND CONNECTION PLATES)



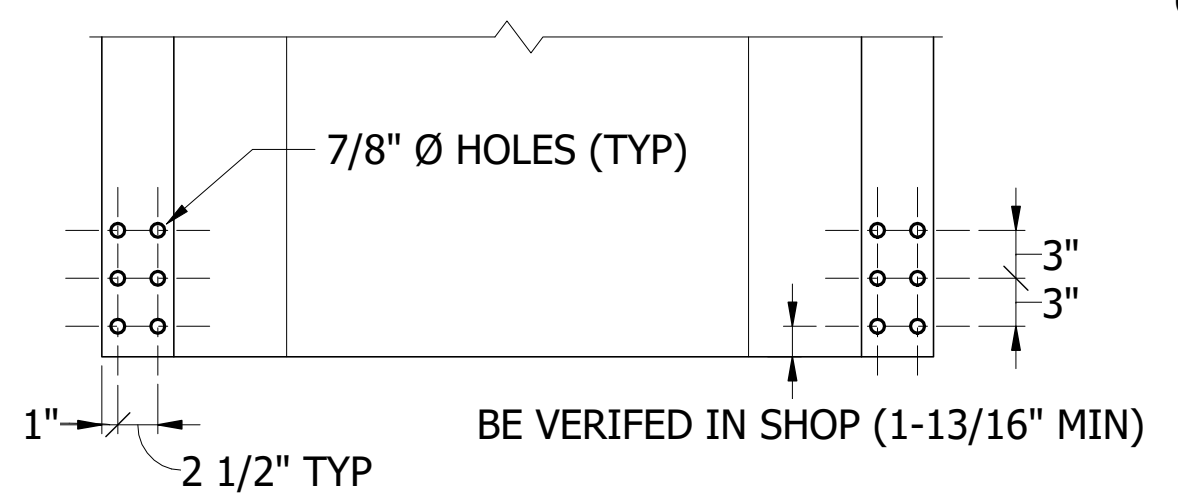
SECTION F-F



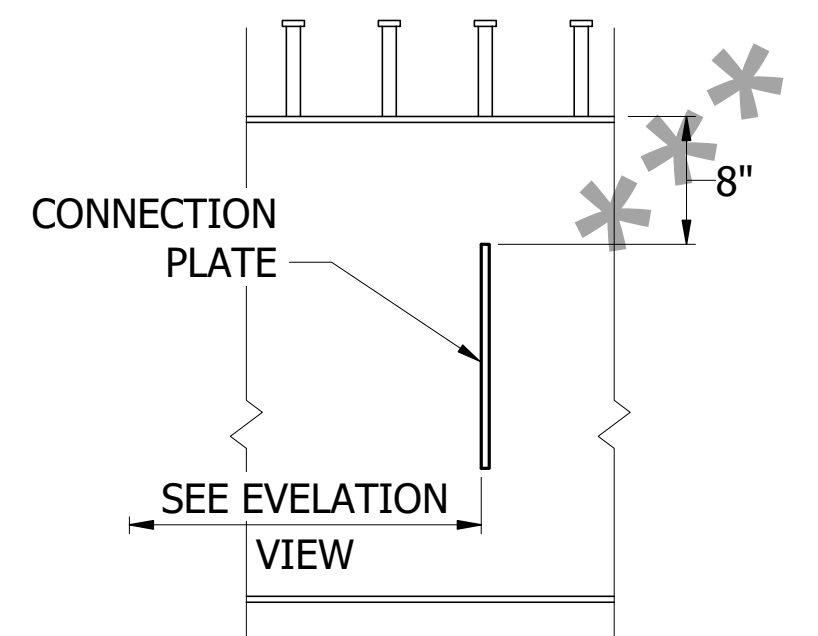
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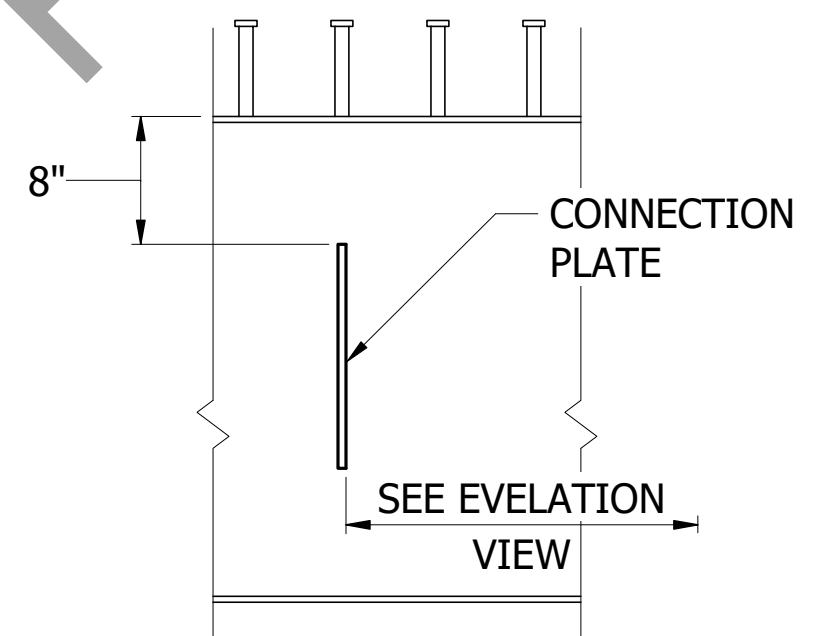
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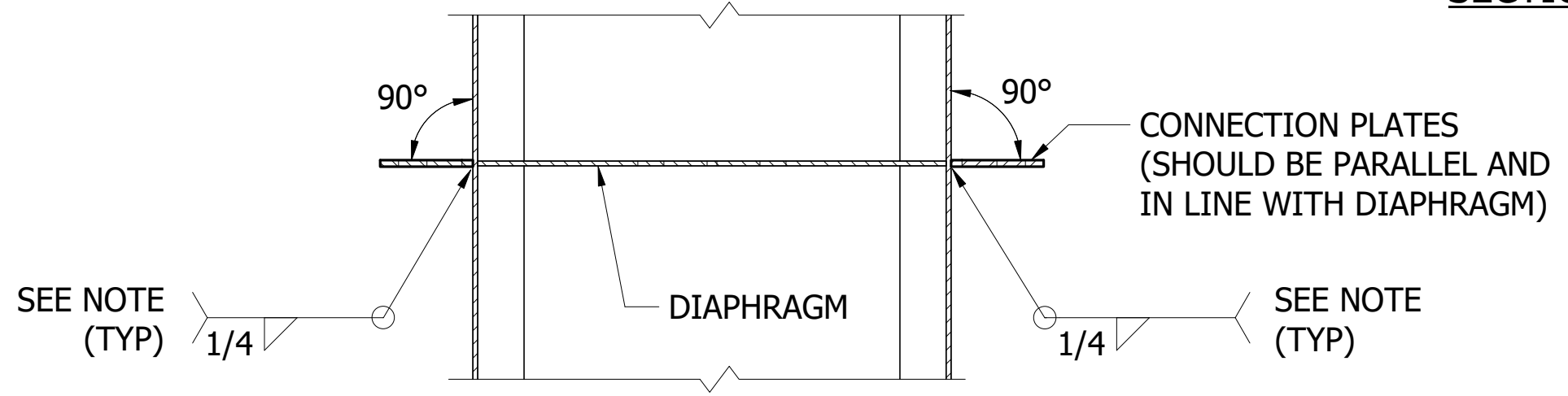
SECTION I-I



SECTION K1-K1



SECTION K2-K2



SECTION L-L  
(CONNECTION PLATE DETAIL)

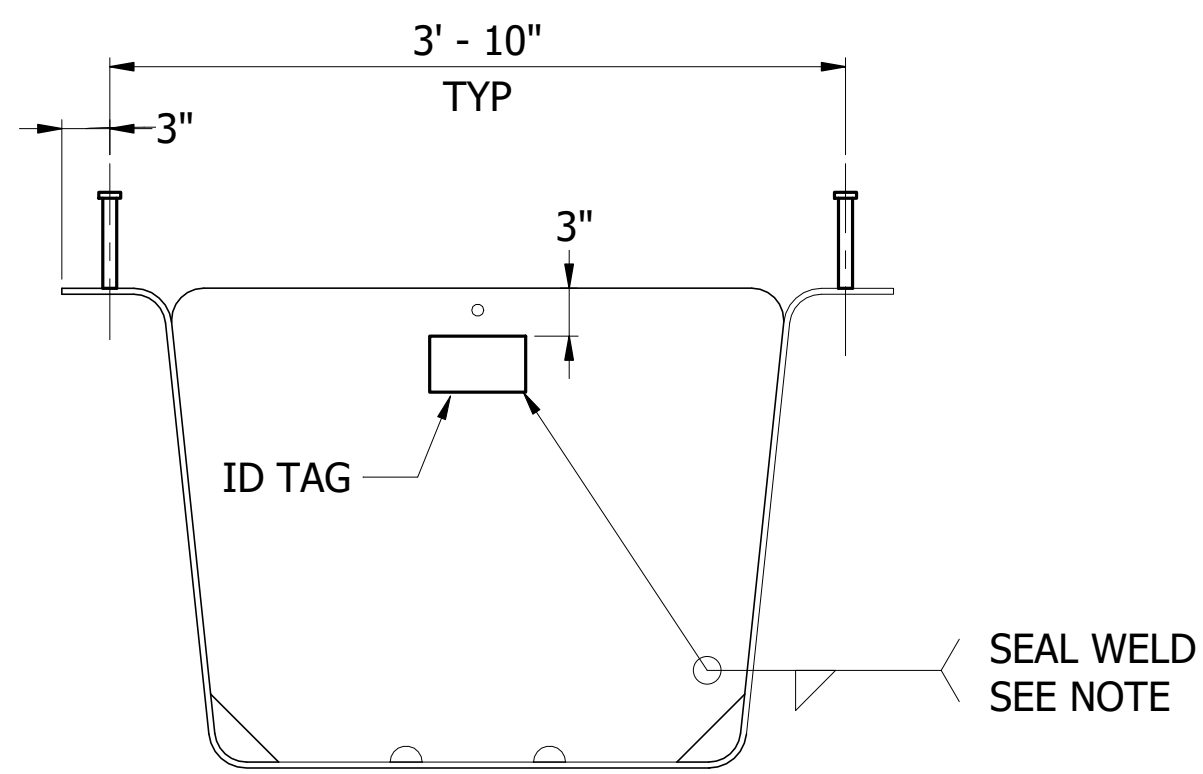
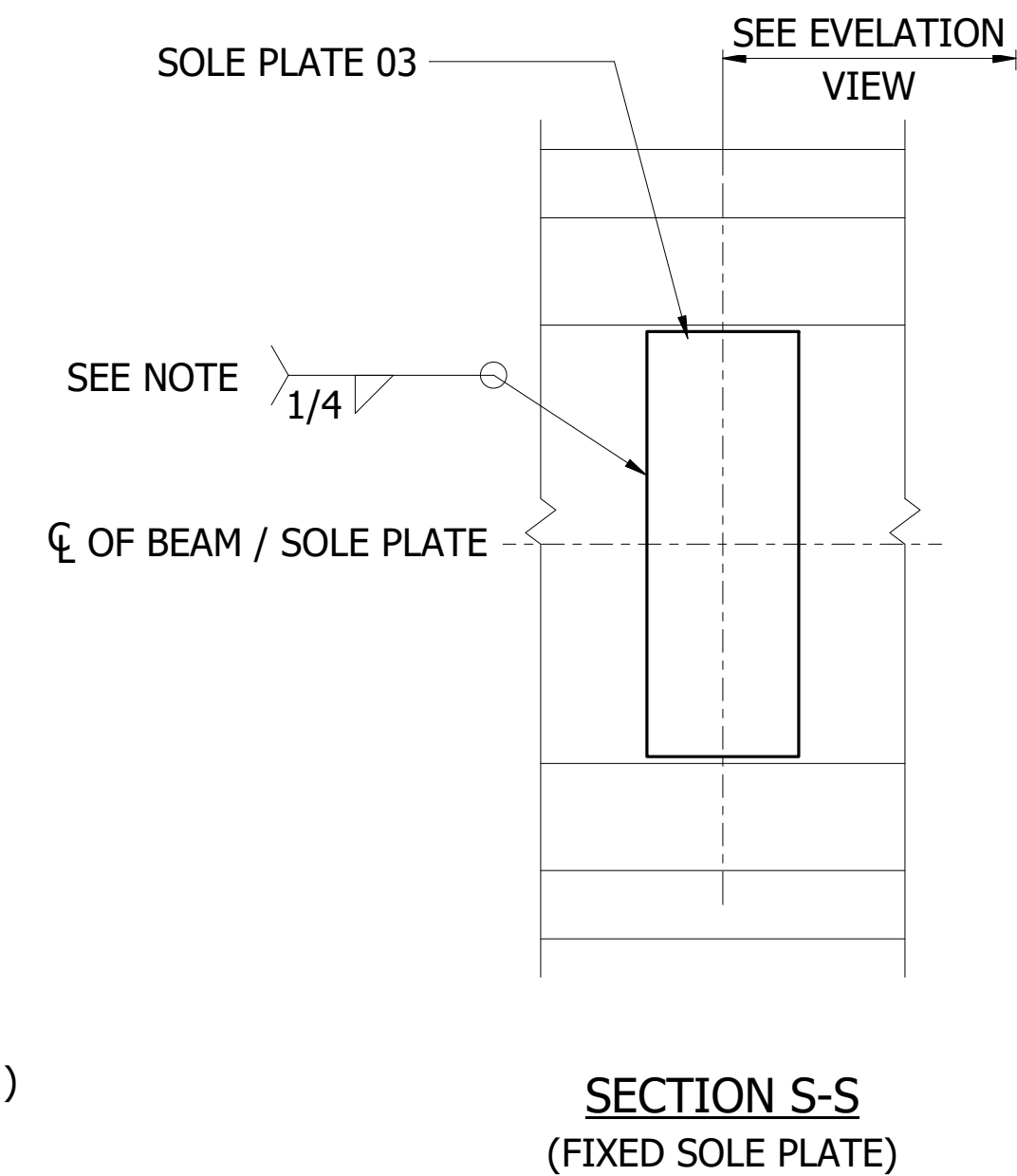
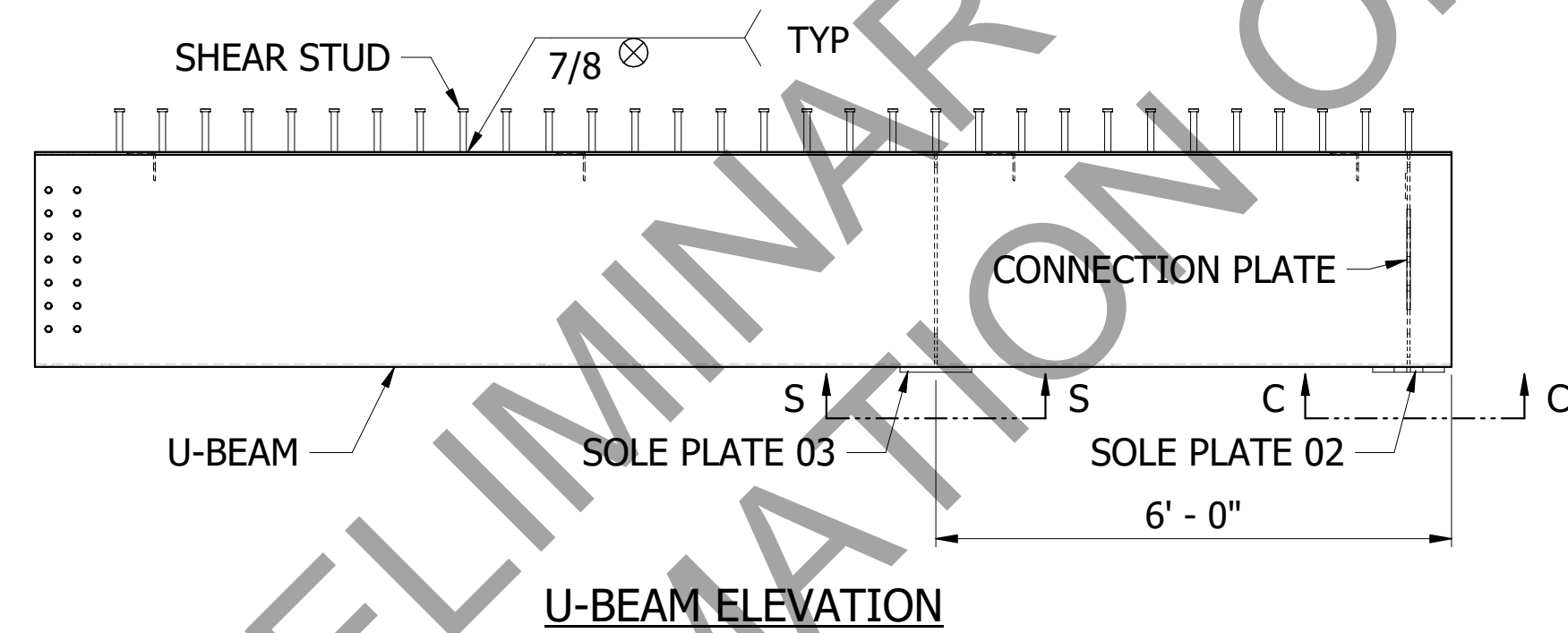
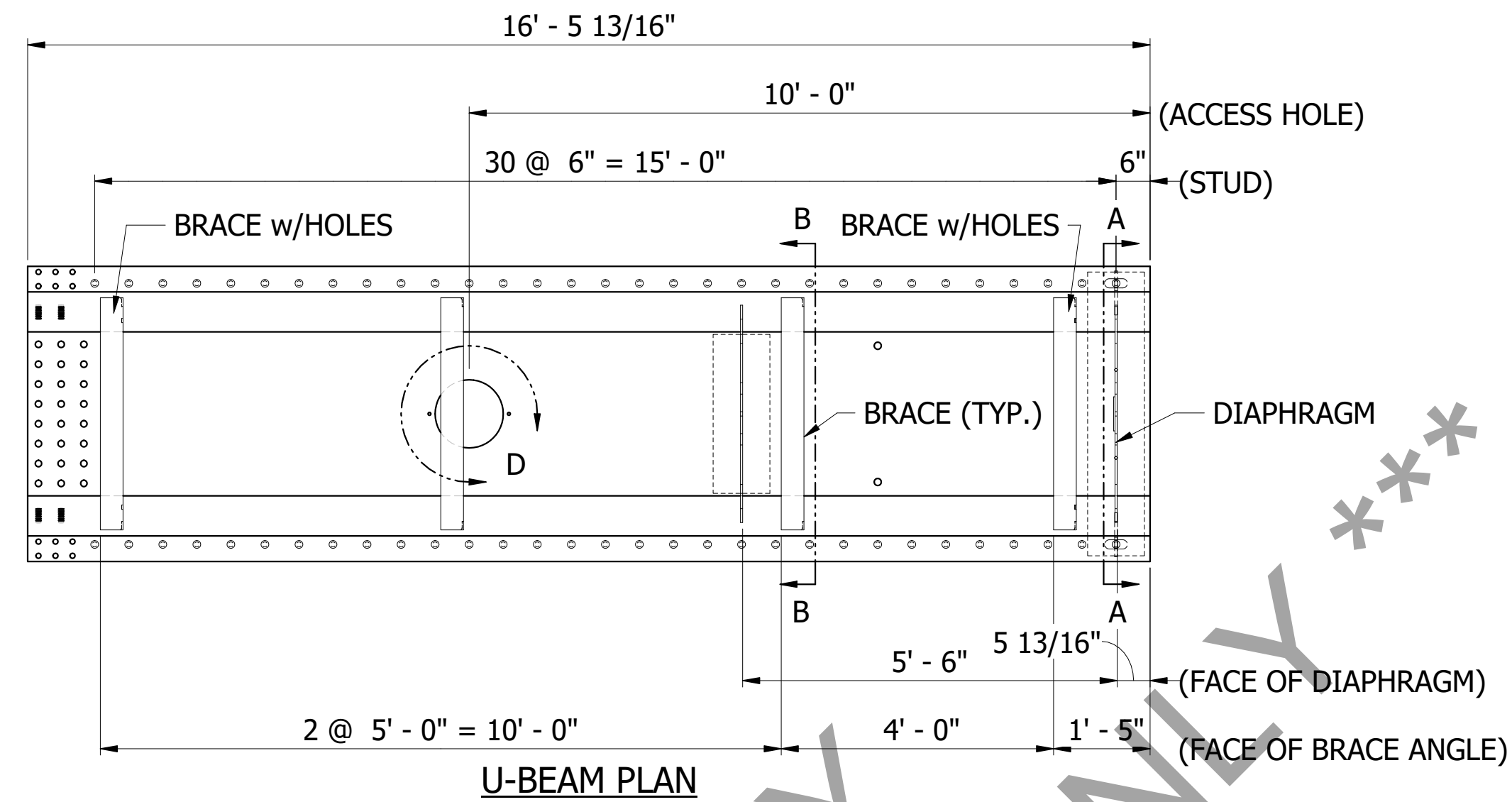
JOB	IMPERIAL CO., CA. DOGWOOD ROAD OVER CENTRAL MAIN CANAL BRIDGE NO: 58C-0226 / COUNTY PROJECT 6222
TITLE	D1-2 SHEET 2

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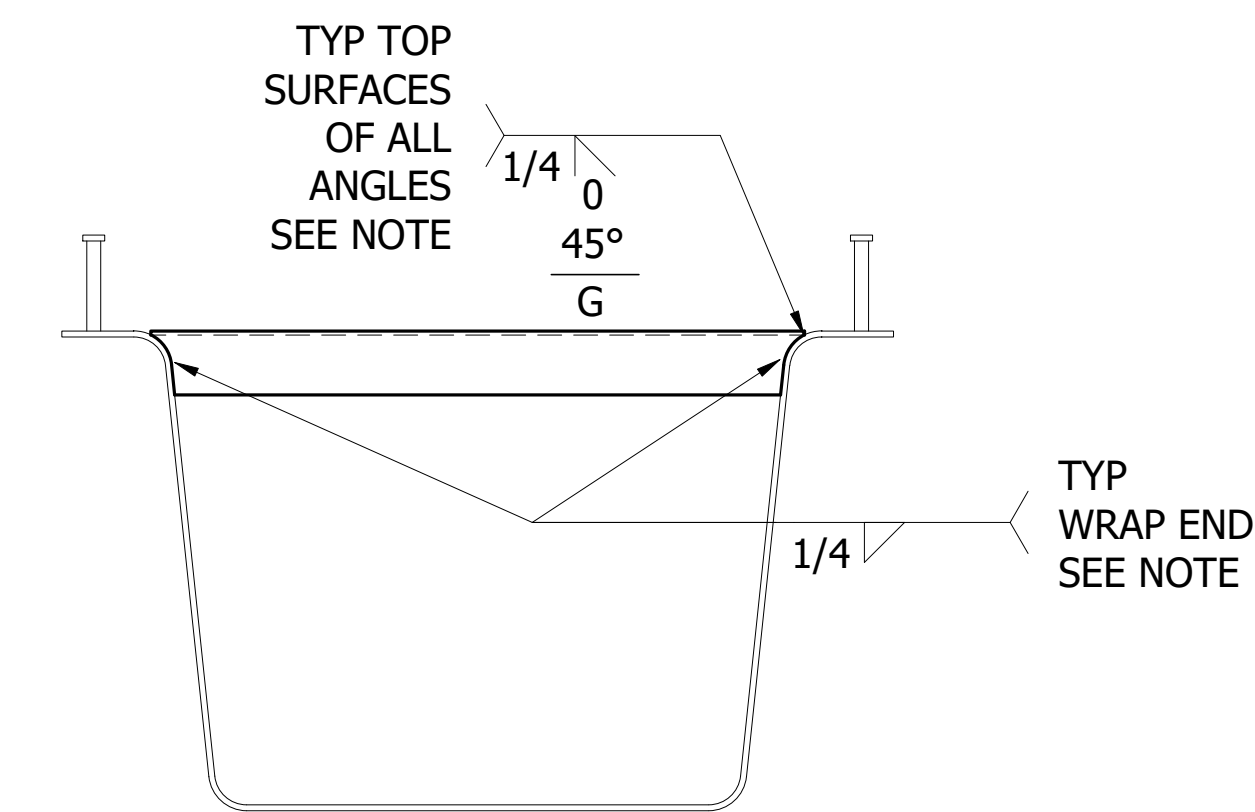


ORDER NUMBER:	529039-P1
PAGE NUMBER:	24 OF 53
DRAWING NUMBER	529039P1
REV	

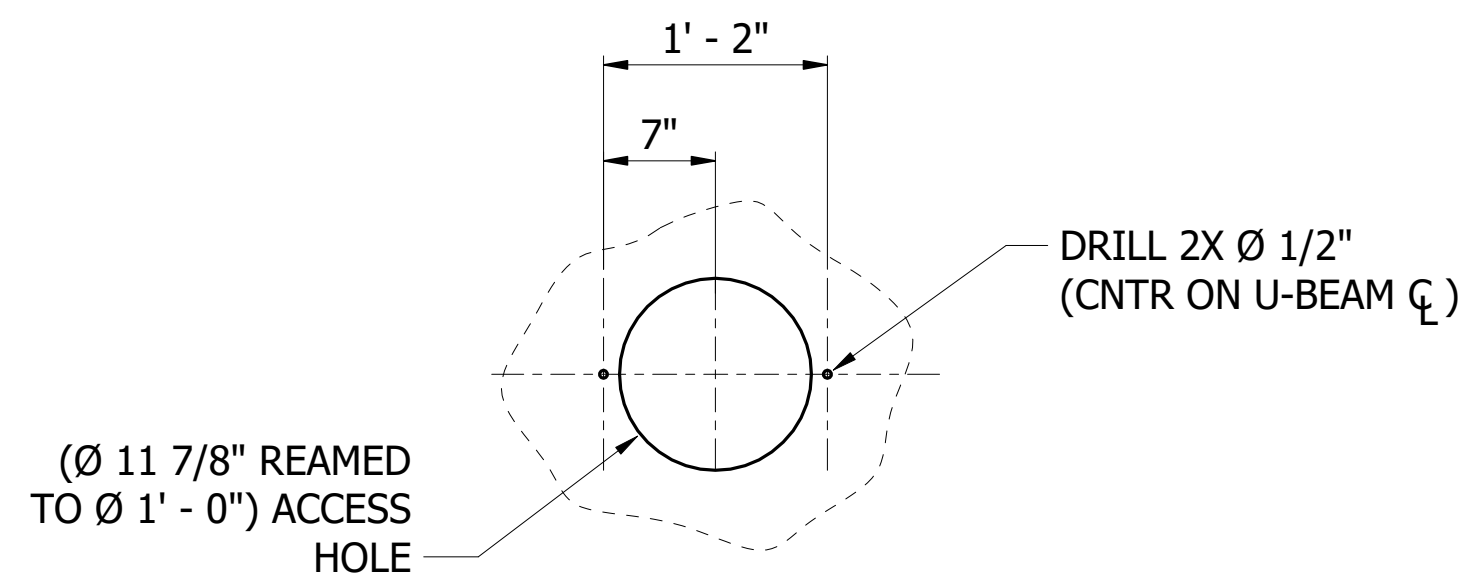




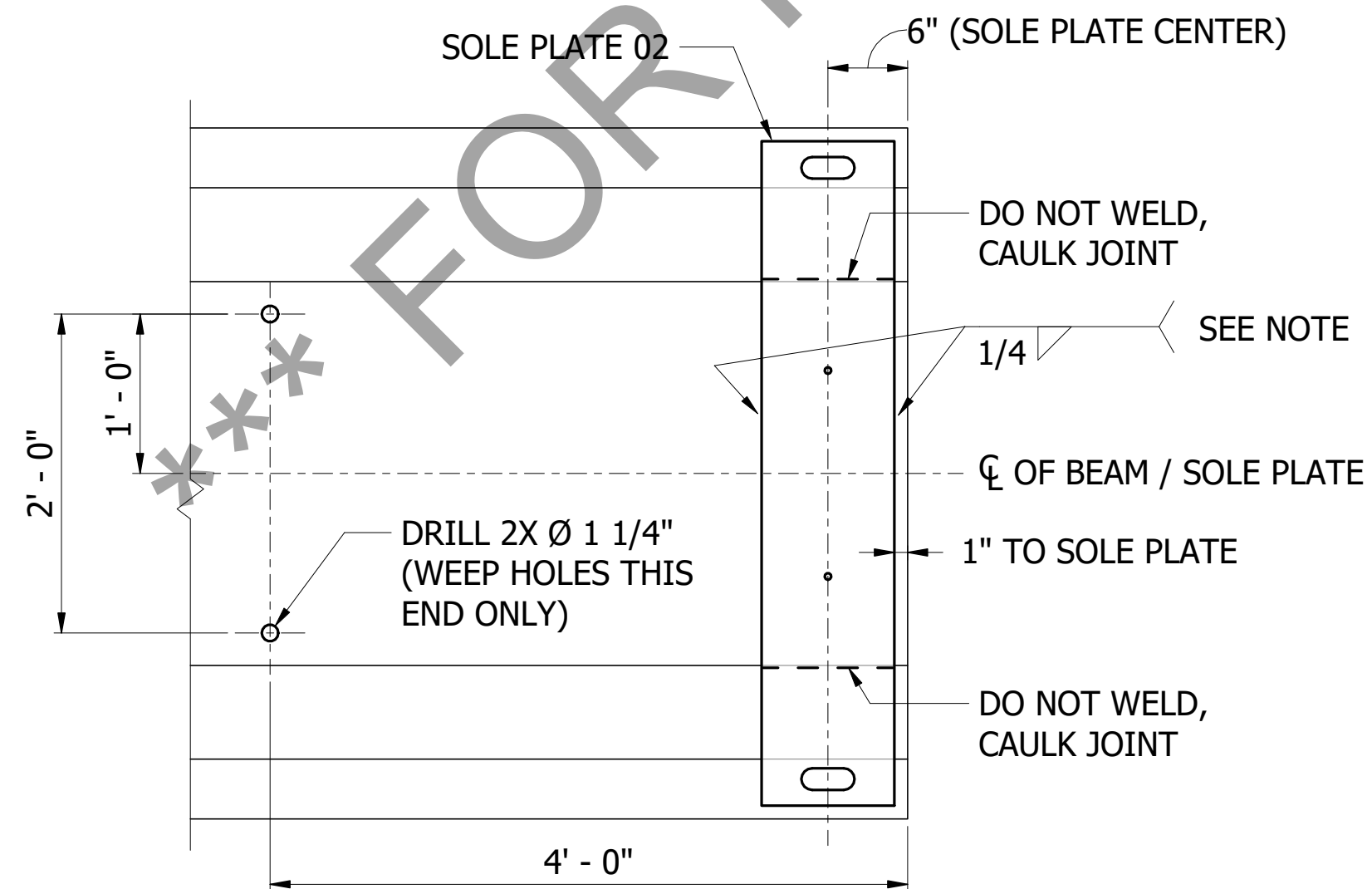
**SECTION A-A**  
(CONNECTION PLATES ARE NOT SHOWN FOR CLARITY.)



**SECTION B-B**



**DETAIL D**



**SECTION C-C**  
(EXP. SOLE PLATE)

WELD NOTE:  
- SEE WELDING SECTION ON COVER SHEET FOR WELDING SPECIFICATIONS.

NOTE:  
- REFERENCE FRAMING PLAN DRAWING FOR OVERALL GIRDER ASSEMBLY.

LABEL	DESCRIPTION	QTY PER ASSY
U-BEAM	U30 x 16' - 5 13/16" GIRDER	1
BRACE	L4x4x1/4 x 3'-4 7/8"	2
BRACE w/HOLES	L4x4x1/4 x 3'-4 7/8" w/(2) 3/4"Ø HOLES	2
CONNEX PLATE	PL 1/2" x (6 1/4" / 7 3/4") x 1'-2"	2
DIAPHRAGM	PL 3/8" x 2'-5 5/8" x 3'-2 1/4"	1
SHEAR STUD	7/8"Ø x 6" SHEAR STUD	62
SOLE PLATE 02	PL 3/4" x 10" x 4'-2" w/(2) 1/2"Ø HOLES & (2) 1 5/8"Ø x 4" SLOTTED HOLES	1
SOLE PLATE 03	PL 3/4" x 10" x 2'-4"	1
TAG	ID TAG	1

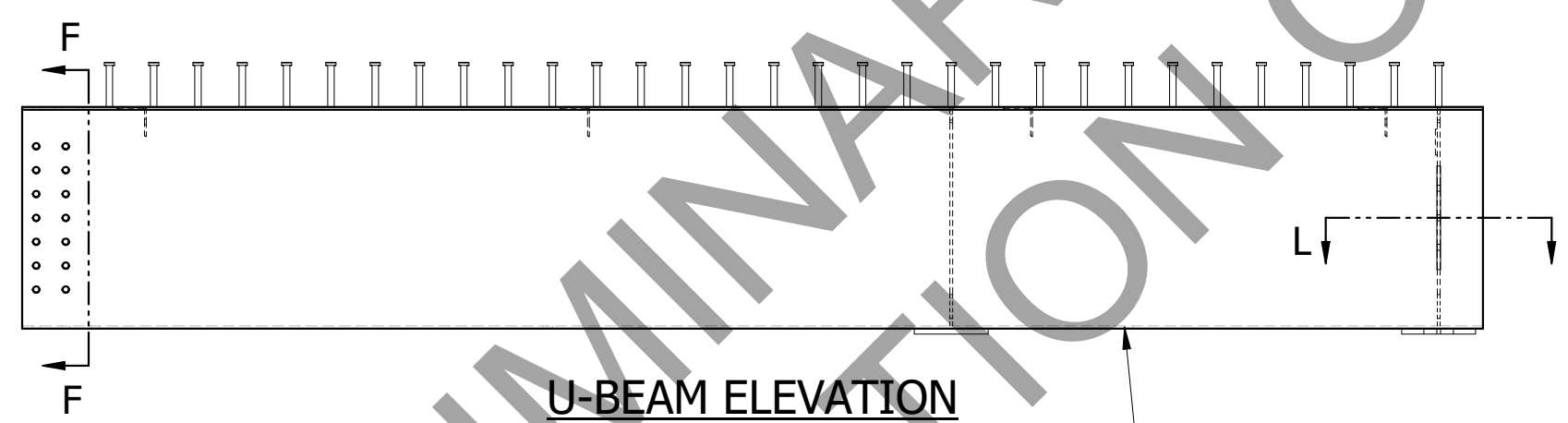
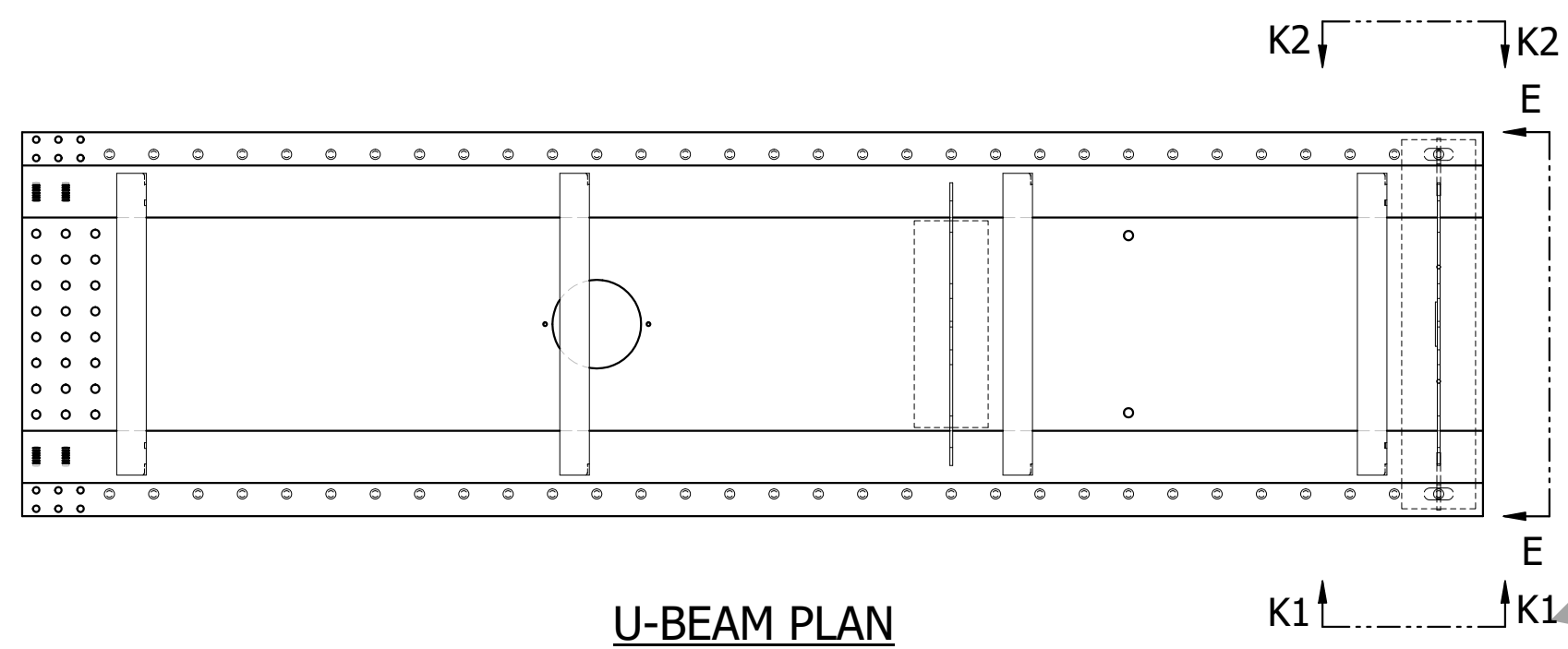
JOB IMPERIAL CO., CA.  
DOGWOOD ROAD OVER CENTRAL MAIN CANAL  
BRIDGE NO: 58C-0226 / COUNTY PROJECT 6222

TITLE D1-3 SHEET 1

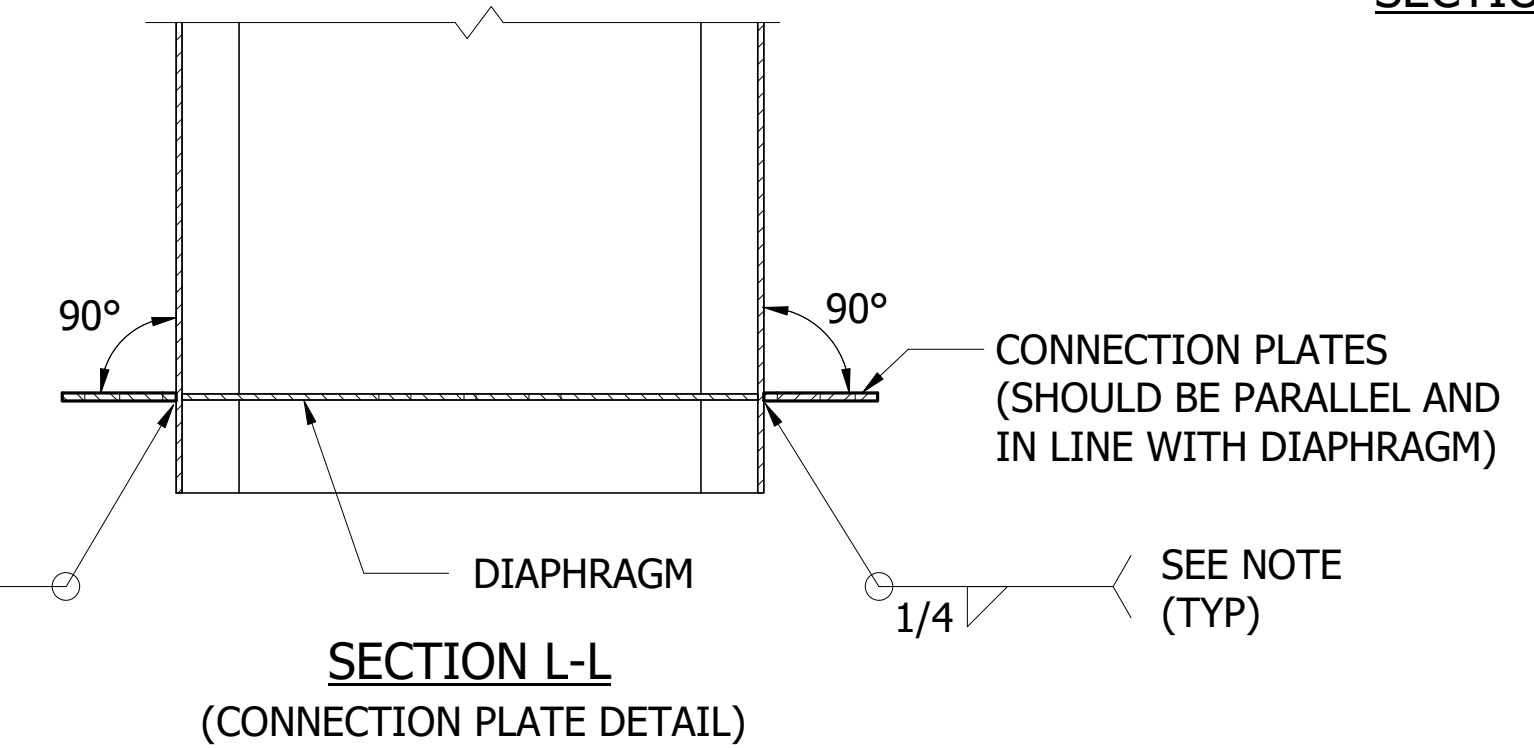
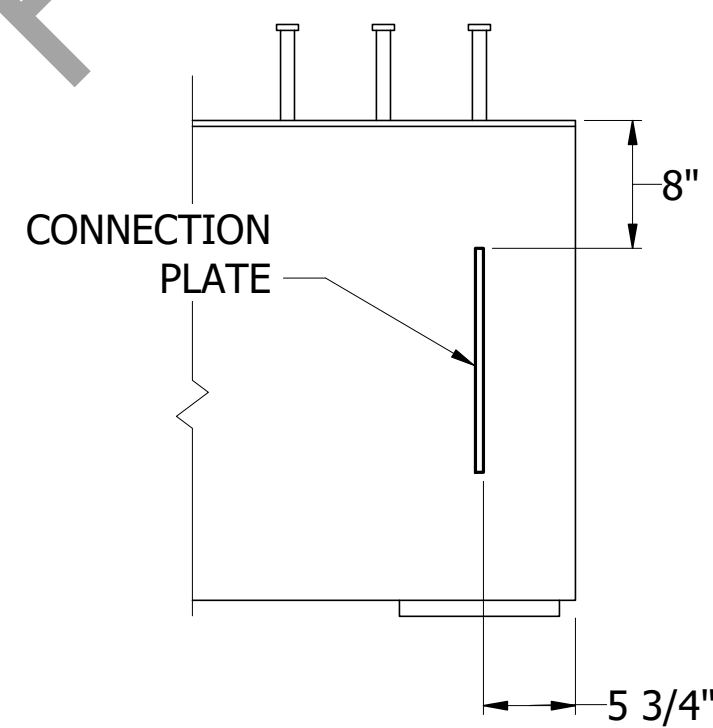
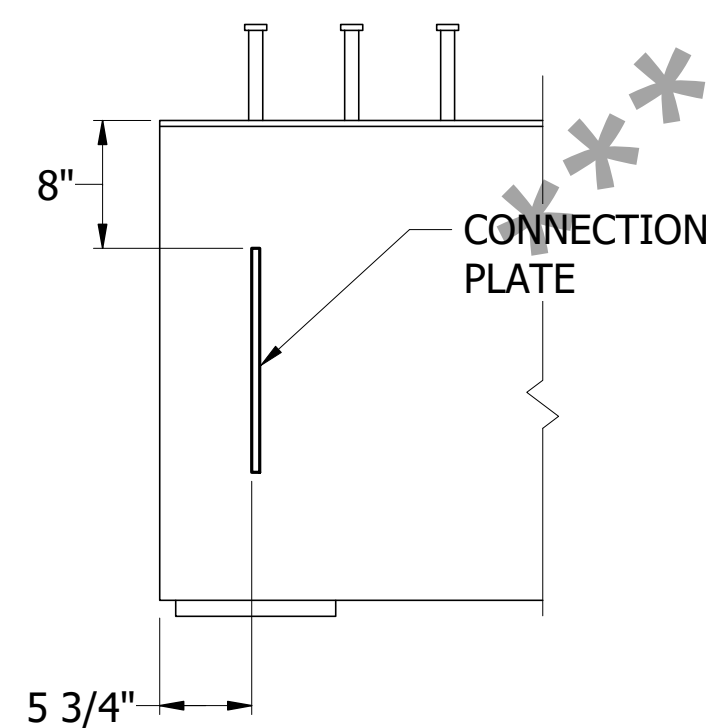
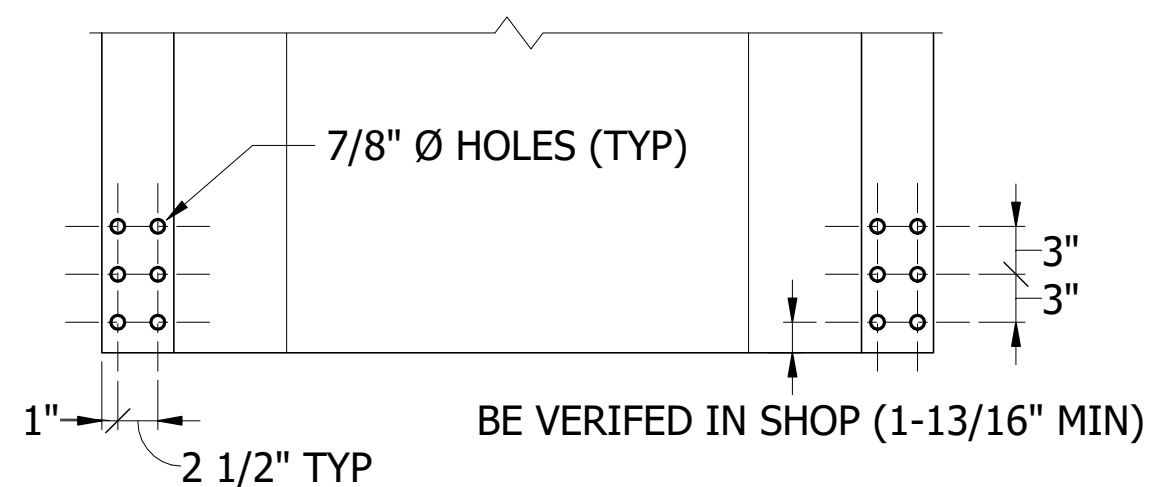
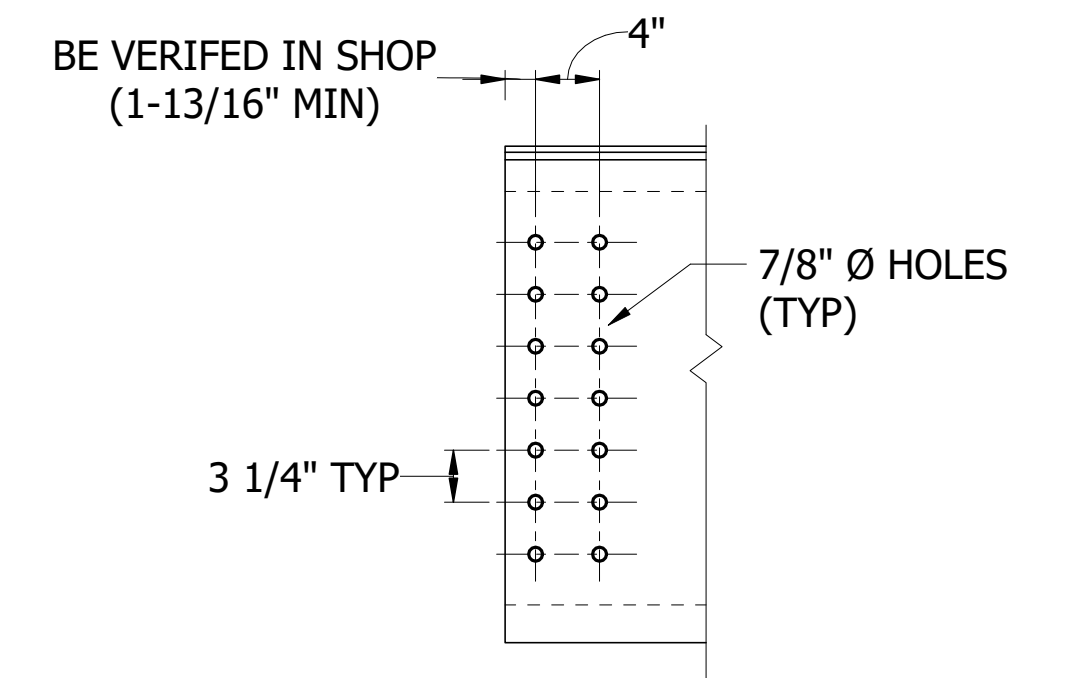
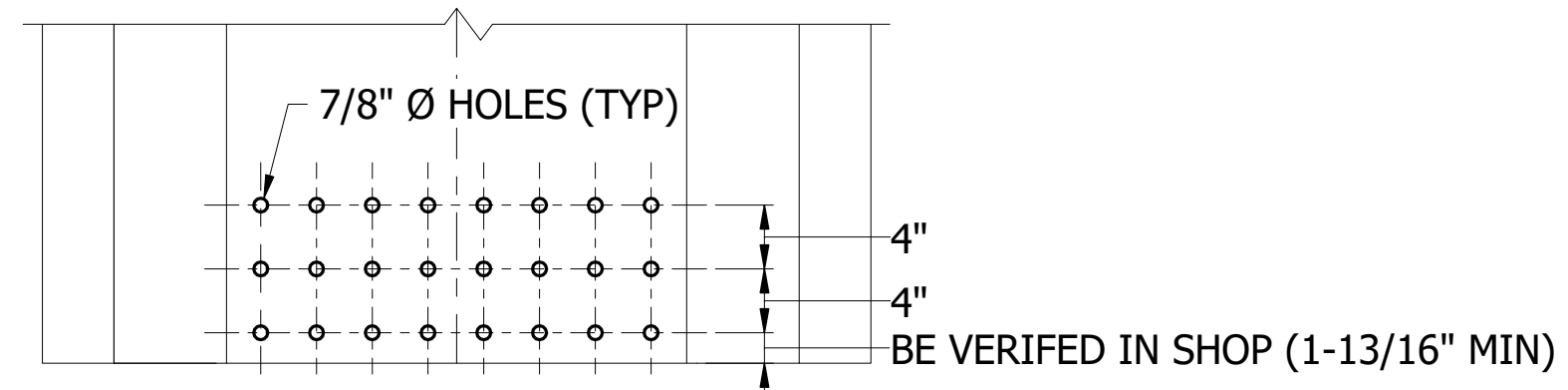
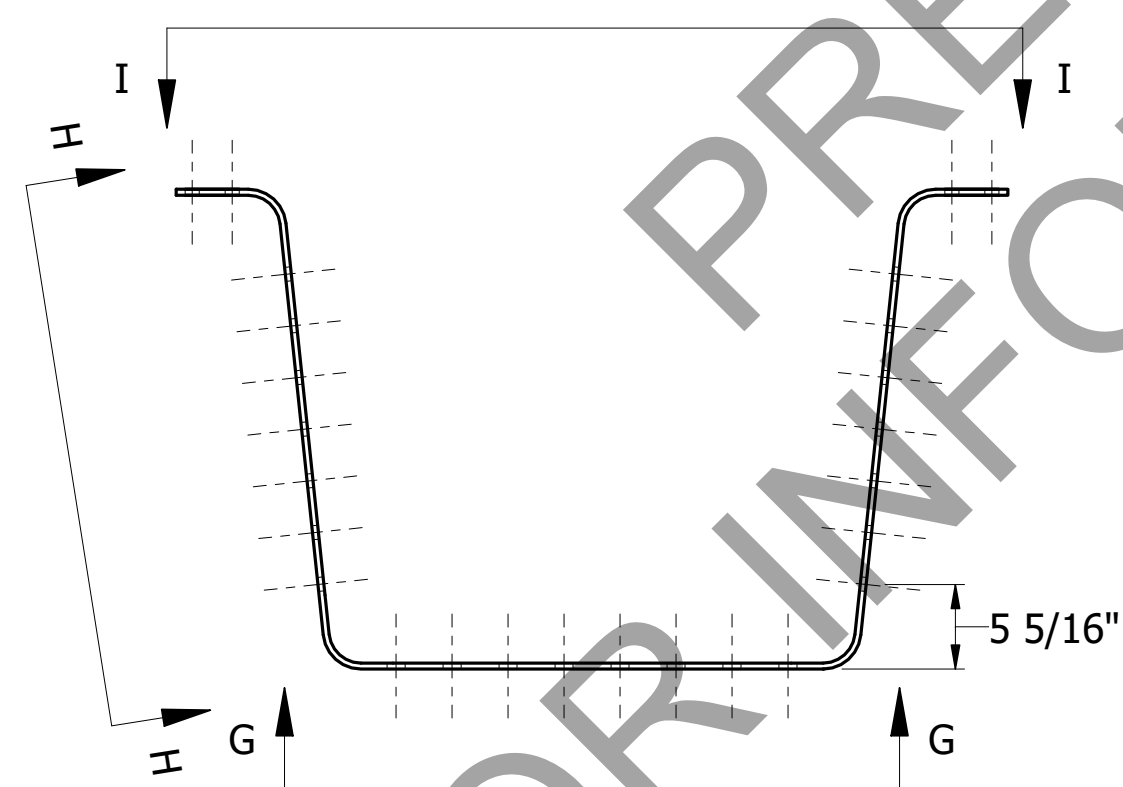
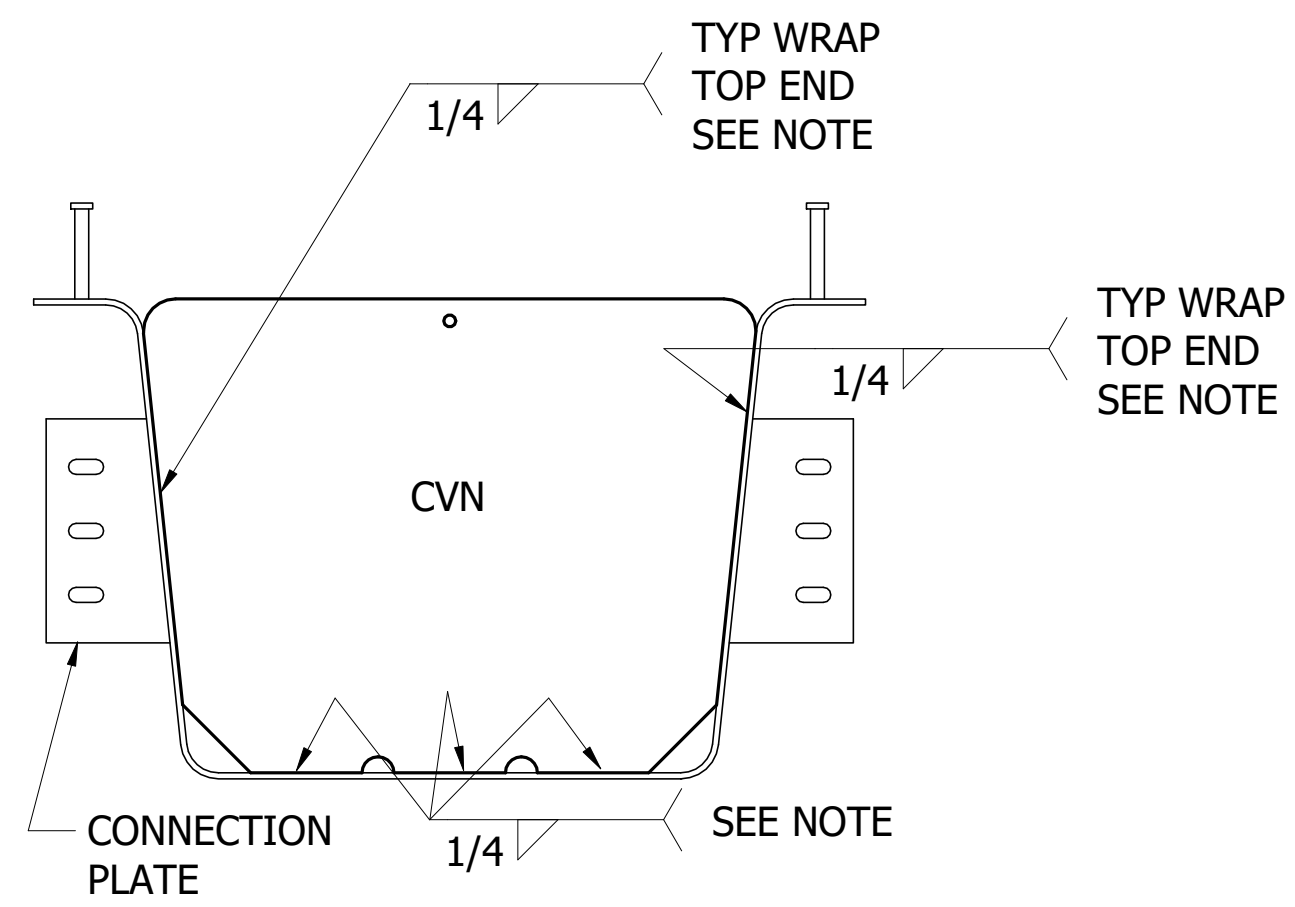
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ORDER NUMBER: 529039-P1  
PAGE NUMBER: 25 OF 53  
DRAWING NUMBER: 529039P1  
REV



U-BEAM REQUIRES CHARPY V-NOTCH TESTING. (CVN)



PRELIMINARY FOR INFORMATION ONLY \*\*\*\*

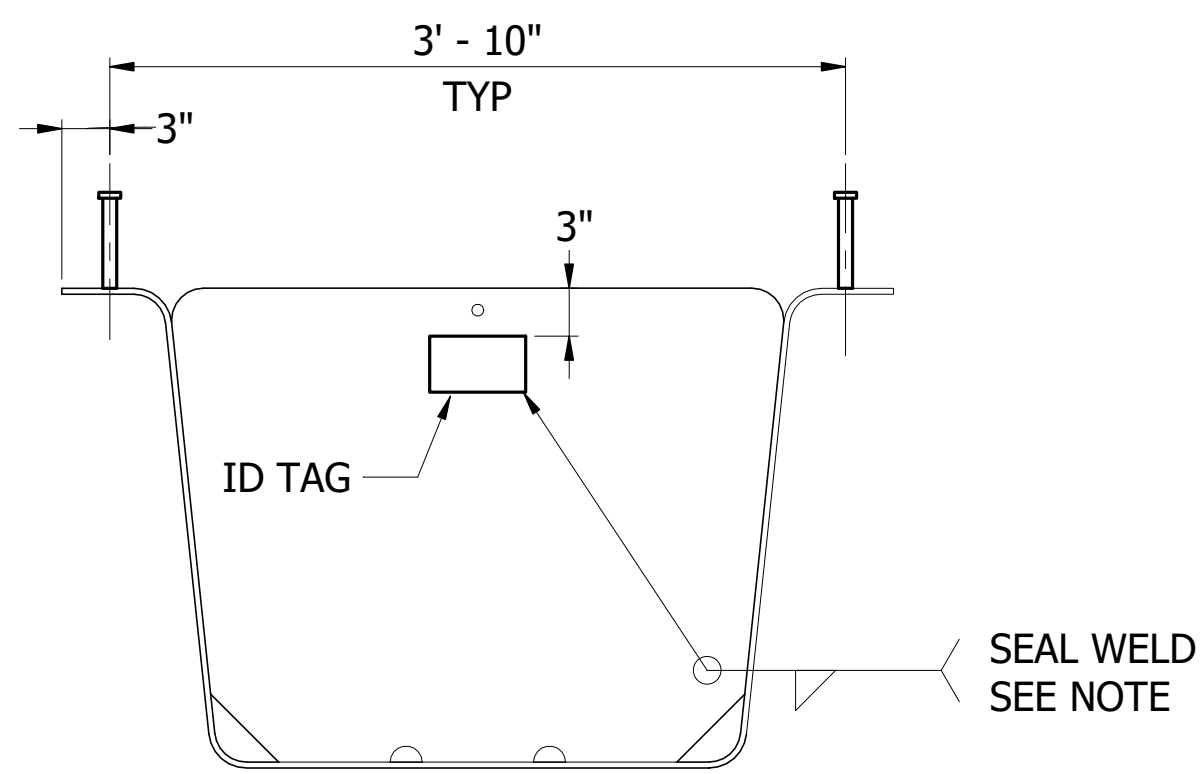
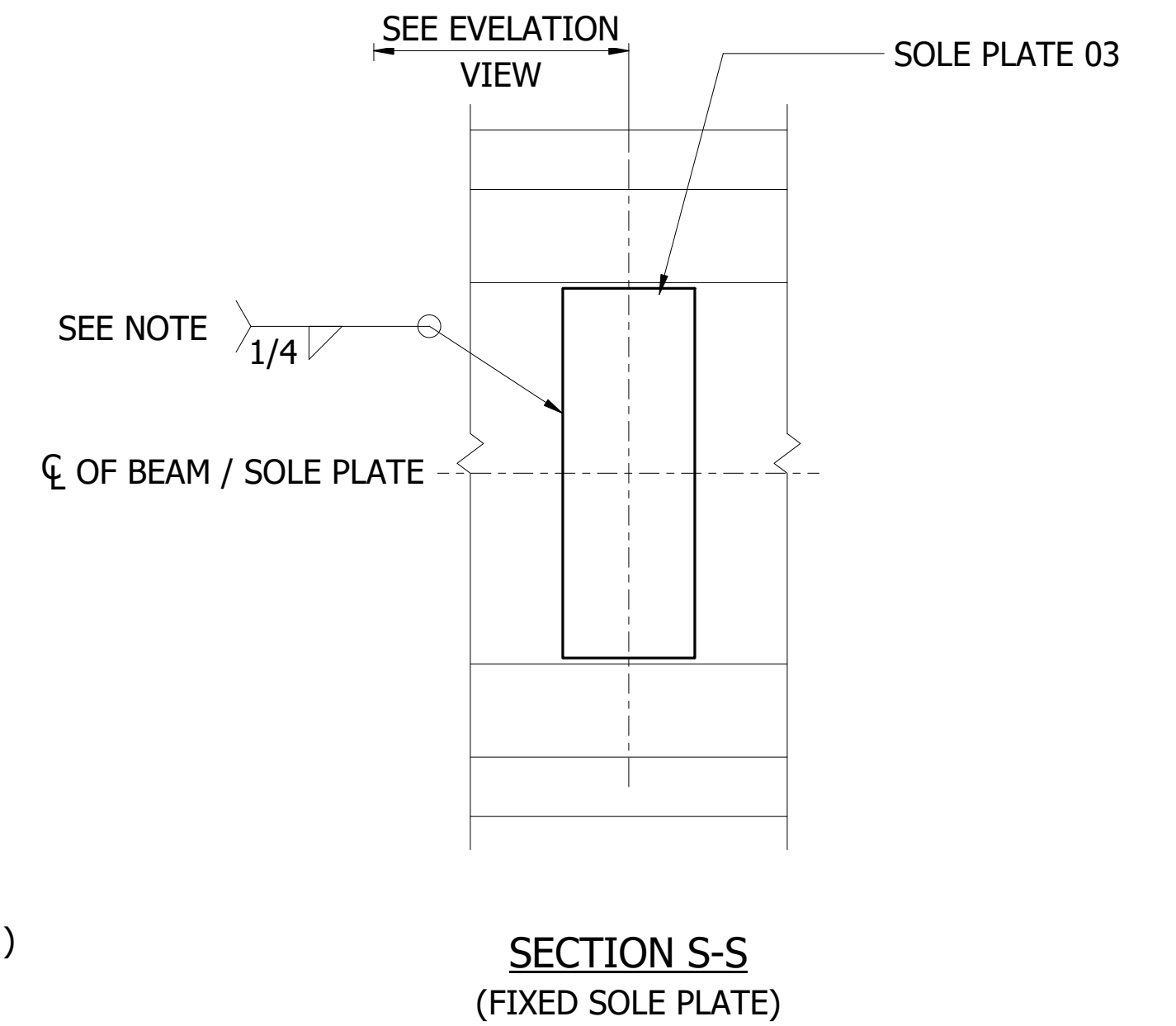
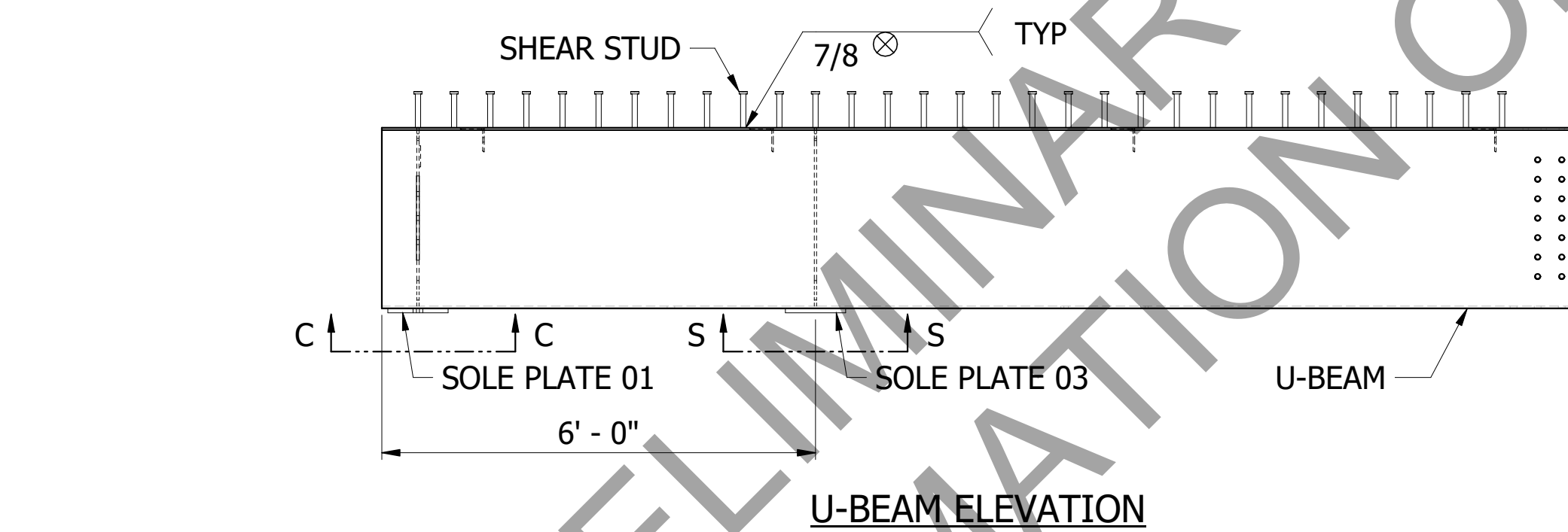
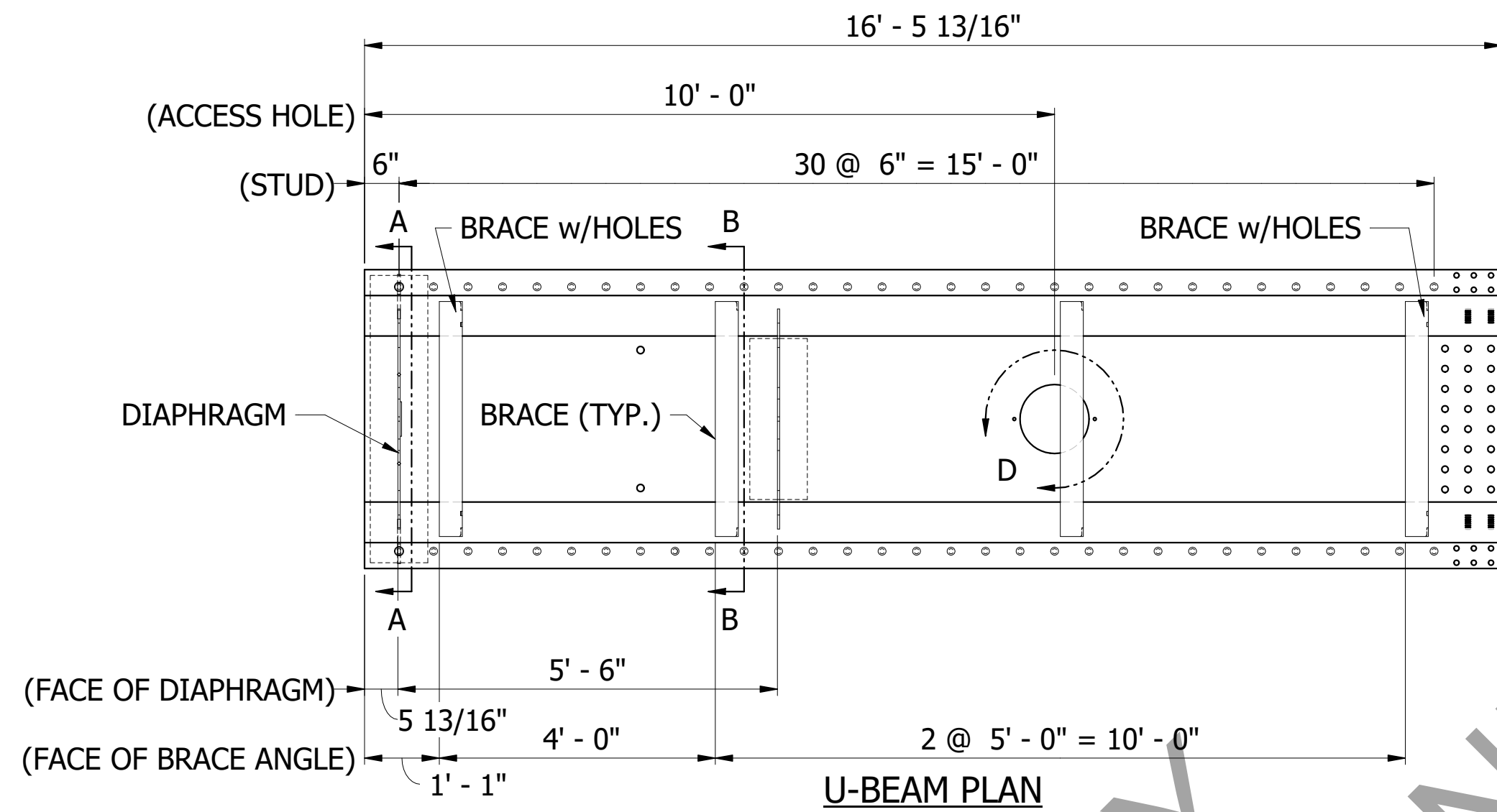
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DOGWOOD ROAD OVER CENTRAL MAIN CANAL  
BRIDGE NO: 58C-0226 / COUNTY PROJECT 6222

TITLE D1-3 SHEET 2

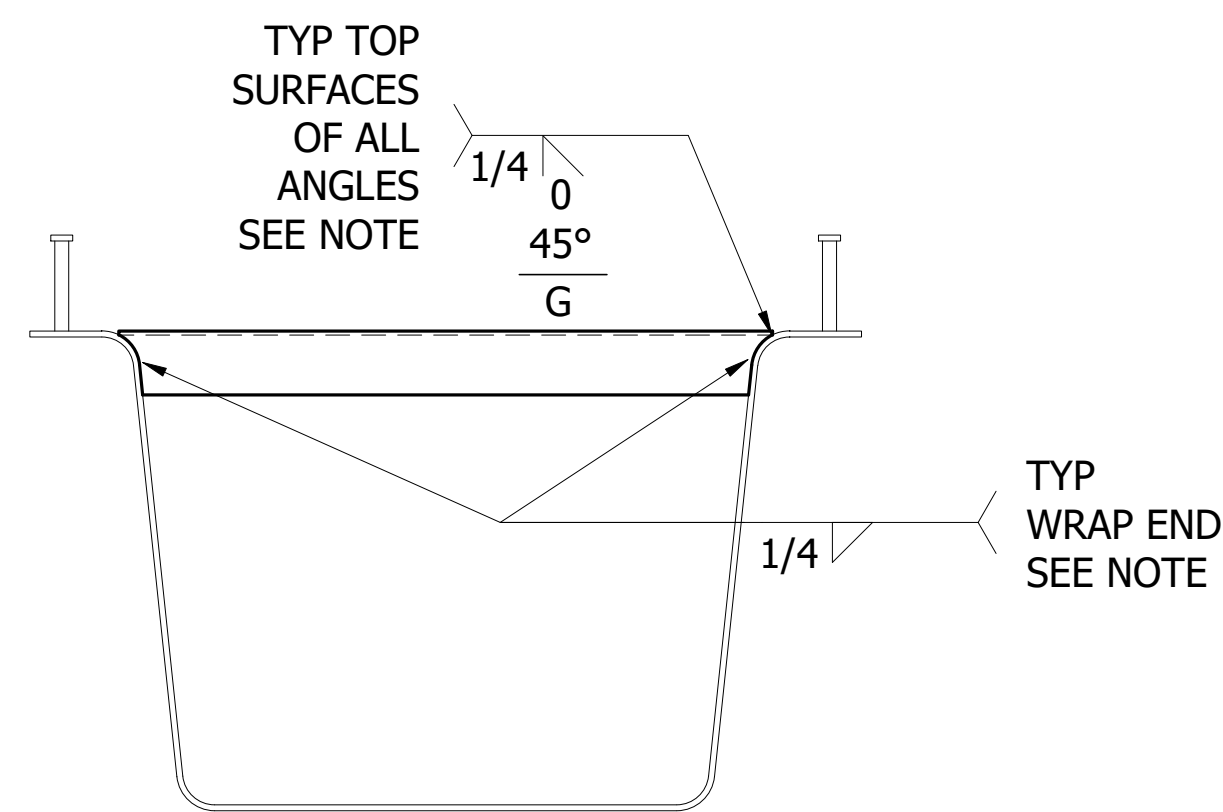
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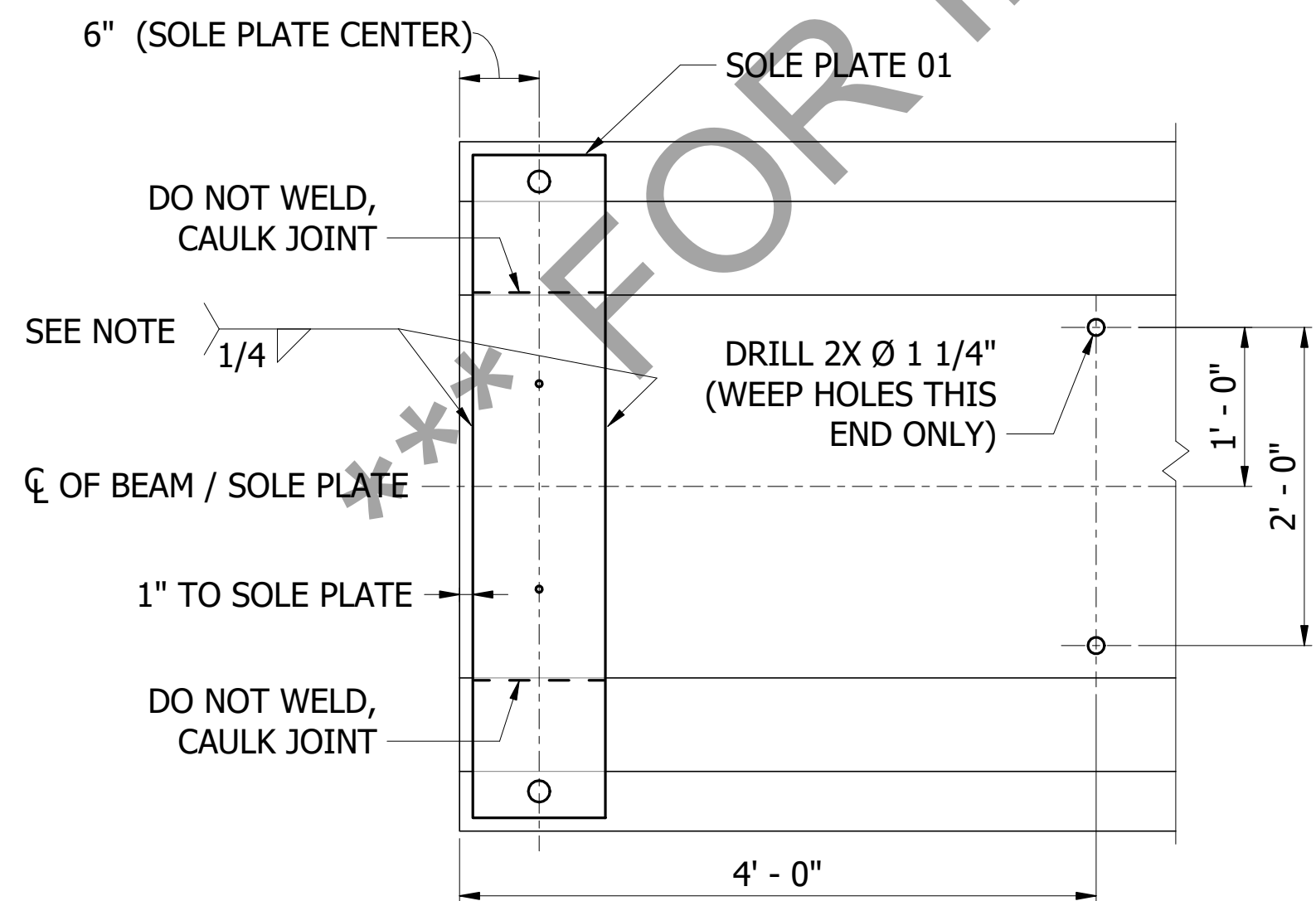
ORDER NUMBER: 529039-P1  
PAGE NUMBER: 26 OF 53  
DRAWING NUMBER 529039P1  
REV



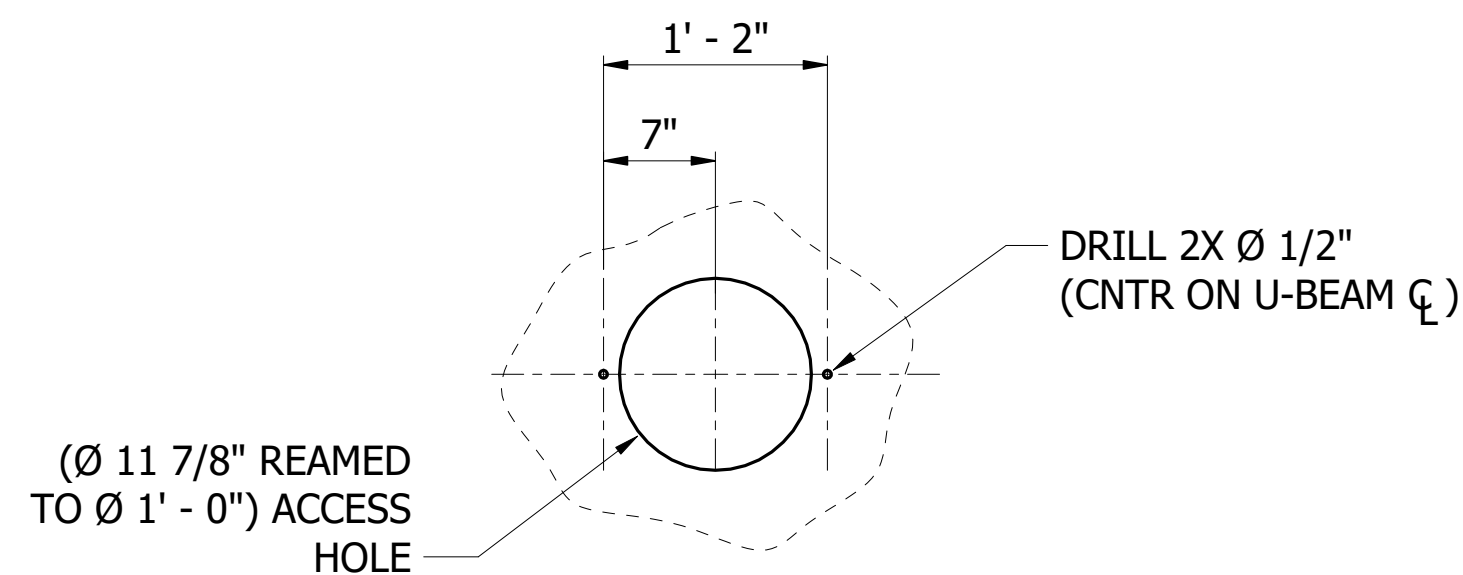
**SECTION A-A**  
(CONNECTION PLATES ARE NOT SHOWN FOR CLARITY.)



**SECTION B-B**



**SECTION C-C**  
(FIXED SOLE PLATE)



**DETAIL D**

**WELD NOTE:**  
- SEE WELDING SECTION ON COVER SHEET FOR WELDING SPECIFICATIONS.

**NOTE:**  
- REFERENCE FRAMING PLAN DRAWING FOR OVERALL GIRDER ASSEMBLY.

LABEL	DESCRIPTION	QTY PER ASSY
U-BEAM	U30 x 16' - 5 13/16" GIRDER	1
BRACE	L4x4x1/4 x 3'-4 7/8"	2
BRACE w/HOLES	L4x4x1/4 x 3'-4 7/8" w/(2) 3/4"Ø HOLES	2
CONNEX PLATE	PL 1/2" x (6 1/4" / 7 3/4") x 1'-2"	2
DIAPHRAGM	PL 3/8" x 2'-5 5/8" x 3'-2 1/4"	2
SHEAR STUD	7/8"Ø x 6" SHEAR STUD	62
SOLE PLATE 01	PL 3/4" x 10" x 4'-2" w/(2) 1 5/8"Ø & (2) 1/2"Ø HOLES	1
SOLE PLATE 03	PL 3/4" x 10" x 2'-4"	1
TAG	ID TAG	1

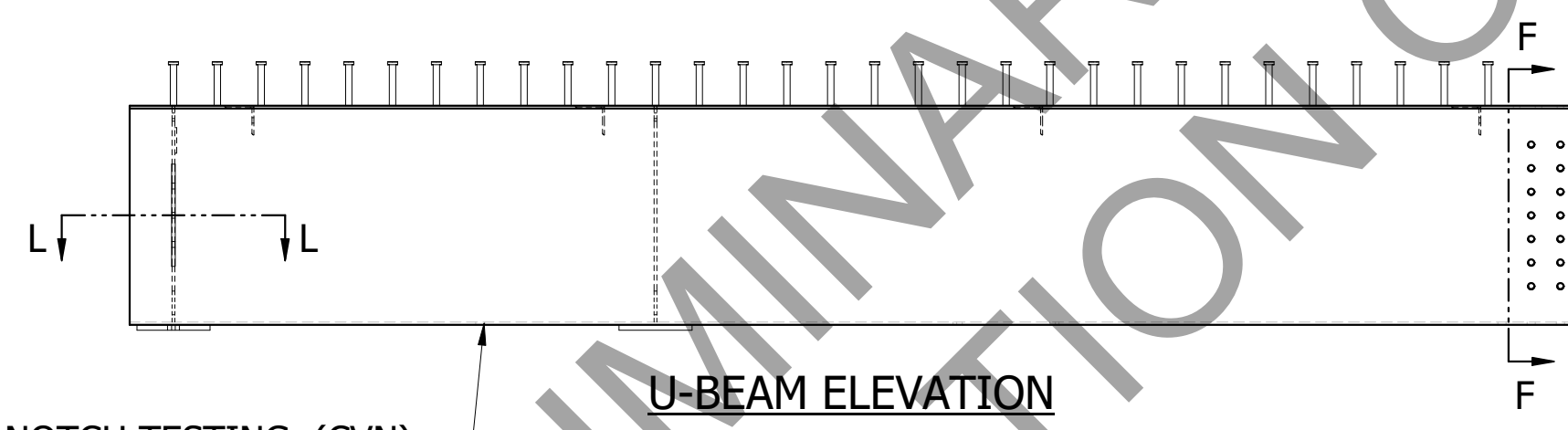
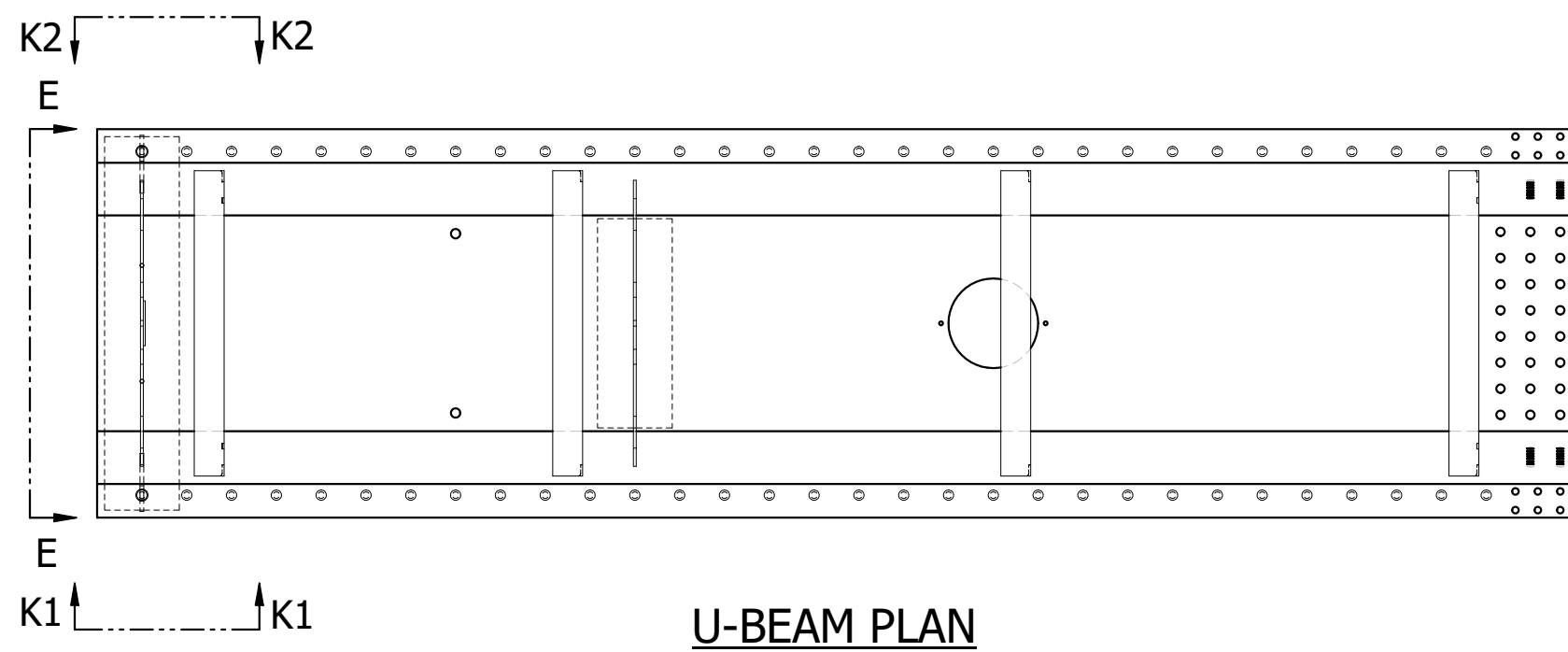
JOB IMPERIAL CO., CA.  
DOGWOOD ROAD OVER CENTRAL MAIN CANAL  
BRIDGE NO: 58C-0226 / COUNTY PROJECT 6222

TITLE E1-1 SHEET 1

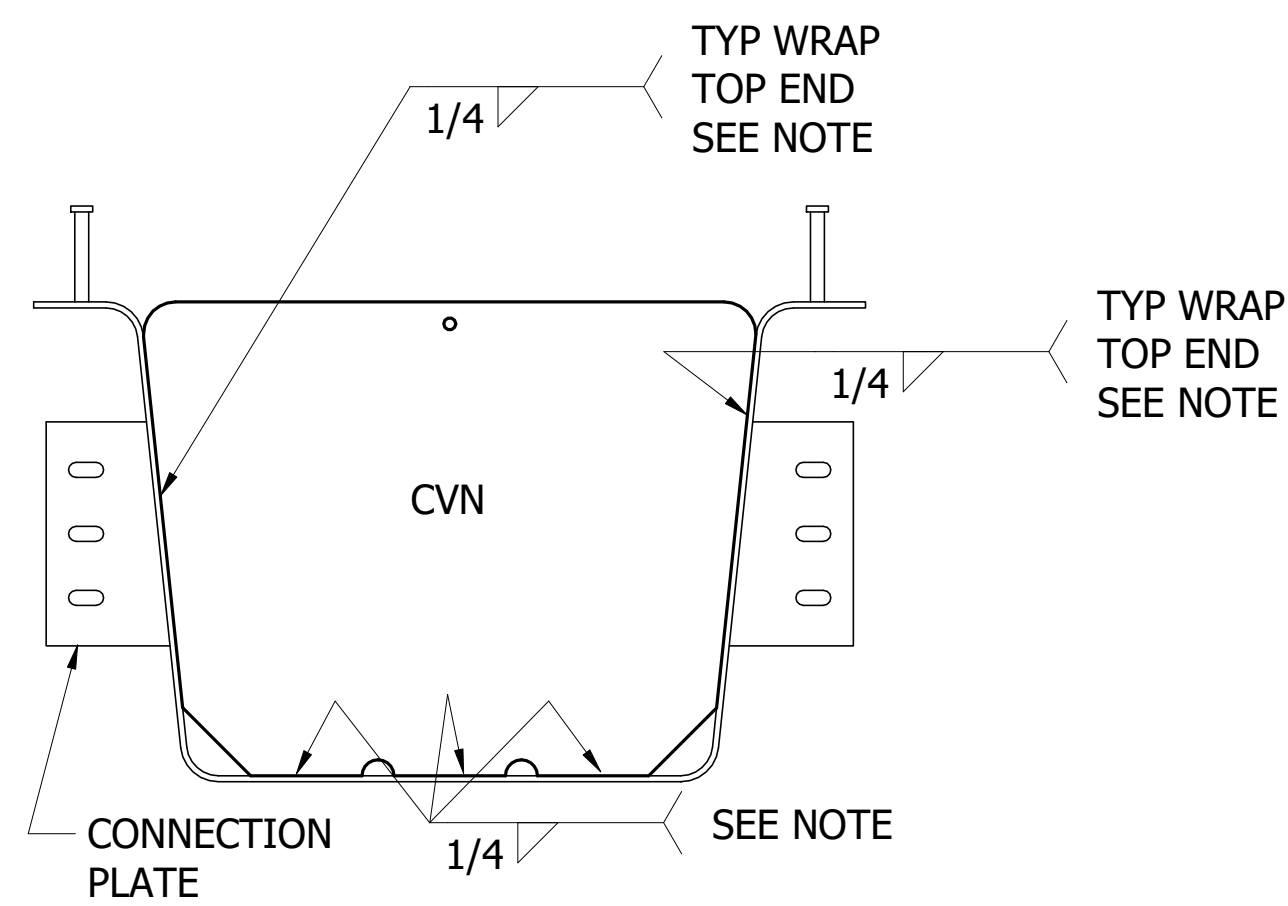
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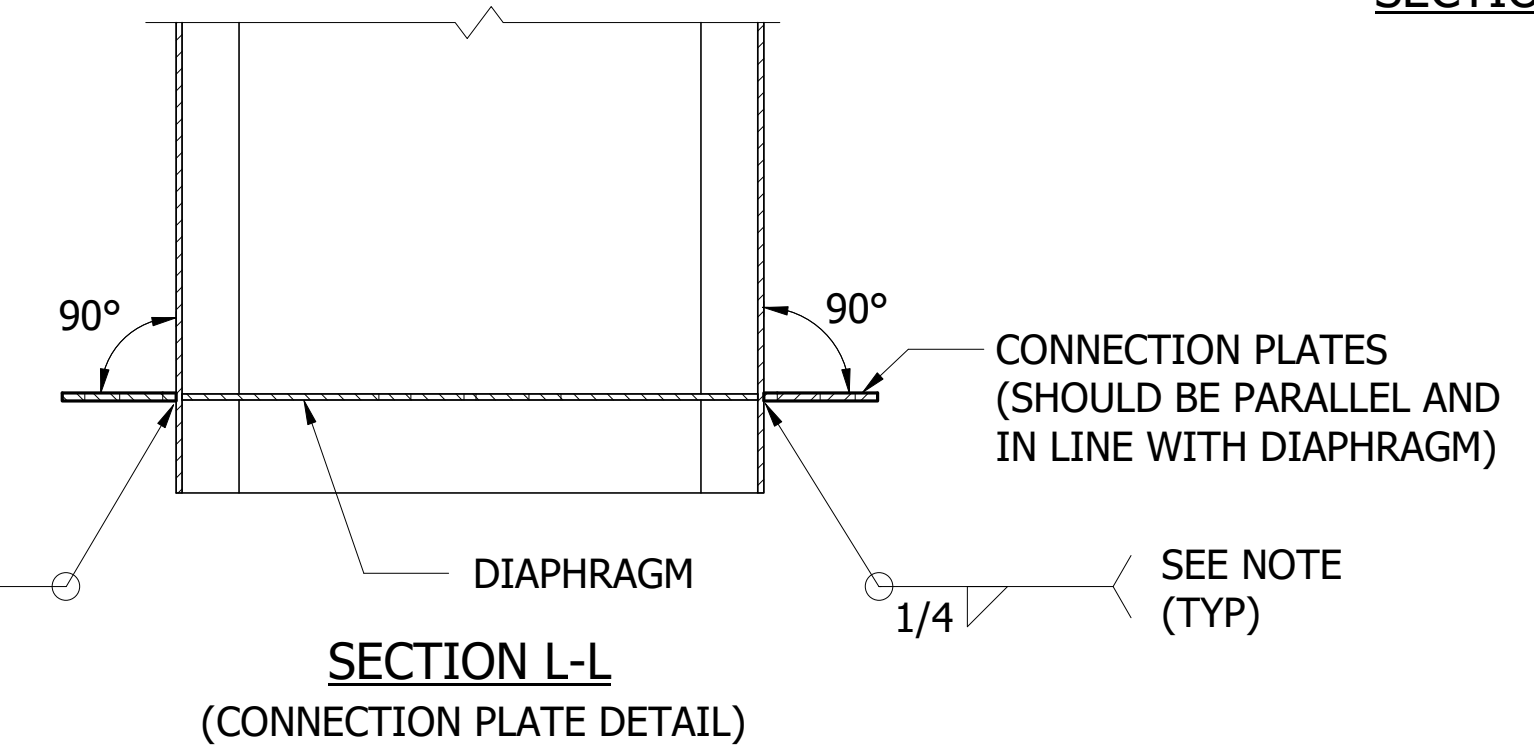
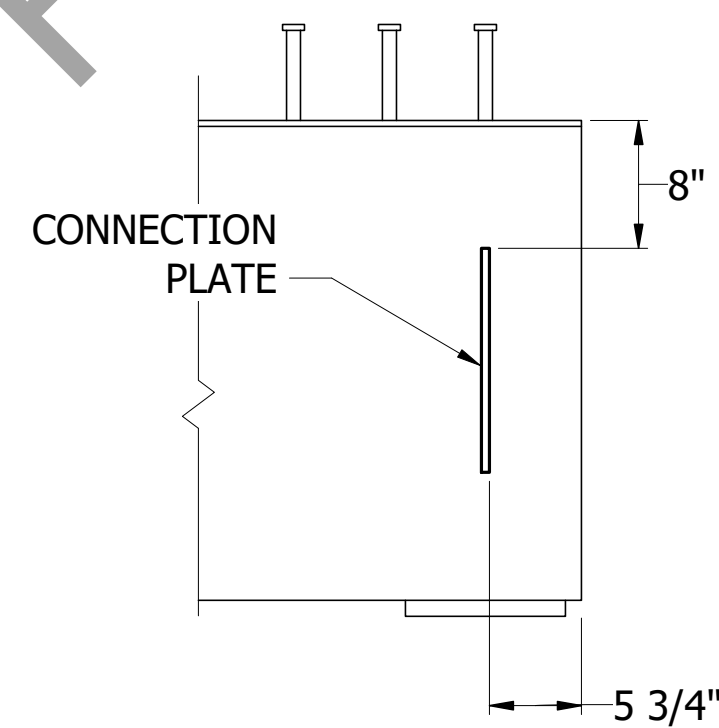
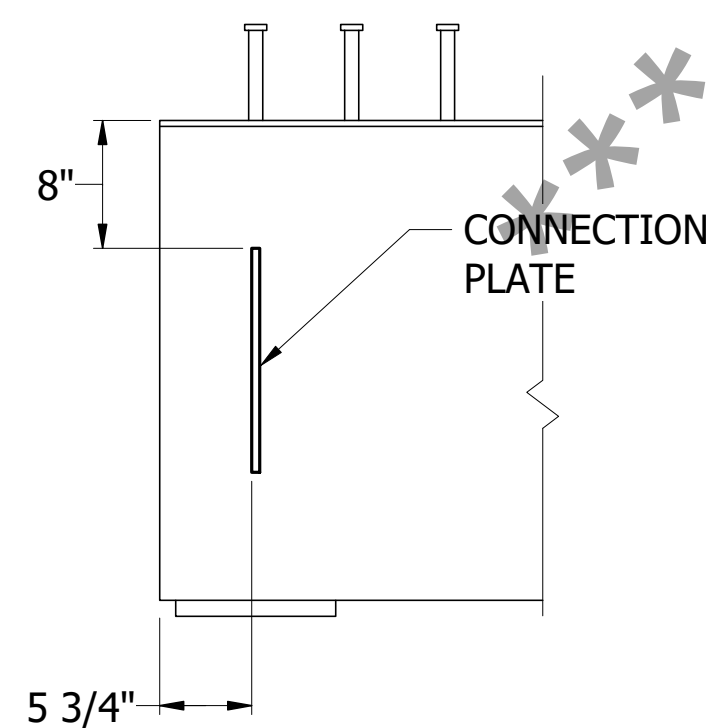
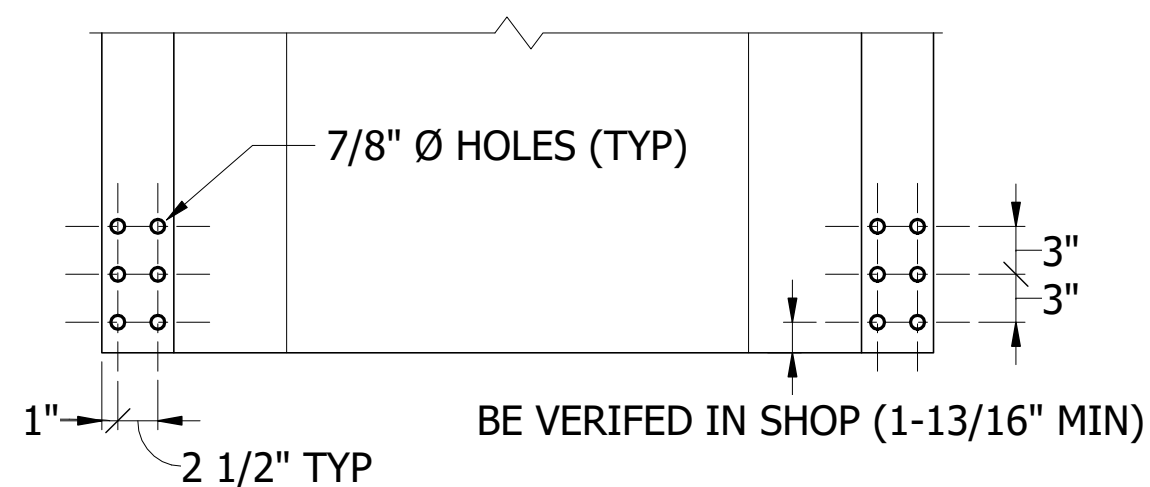
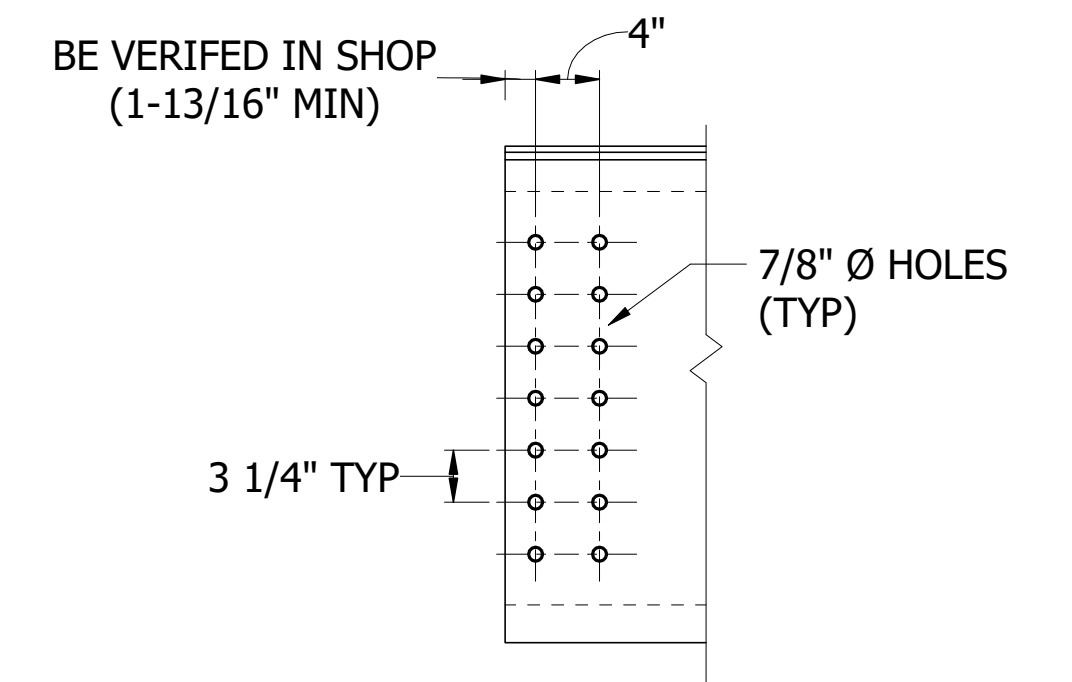
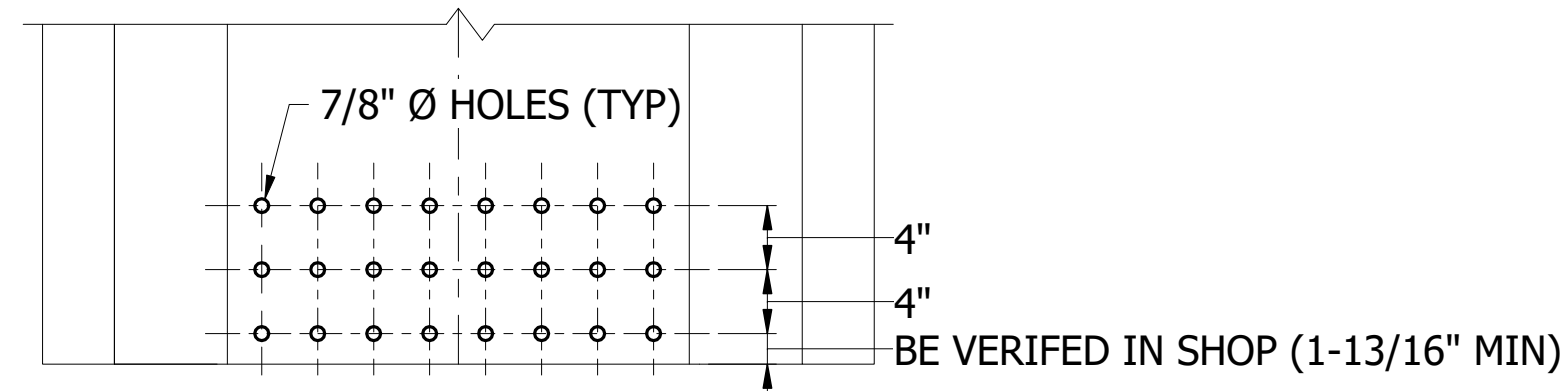
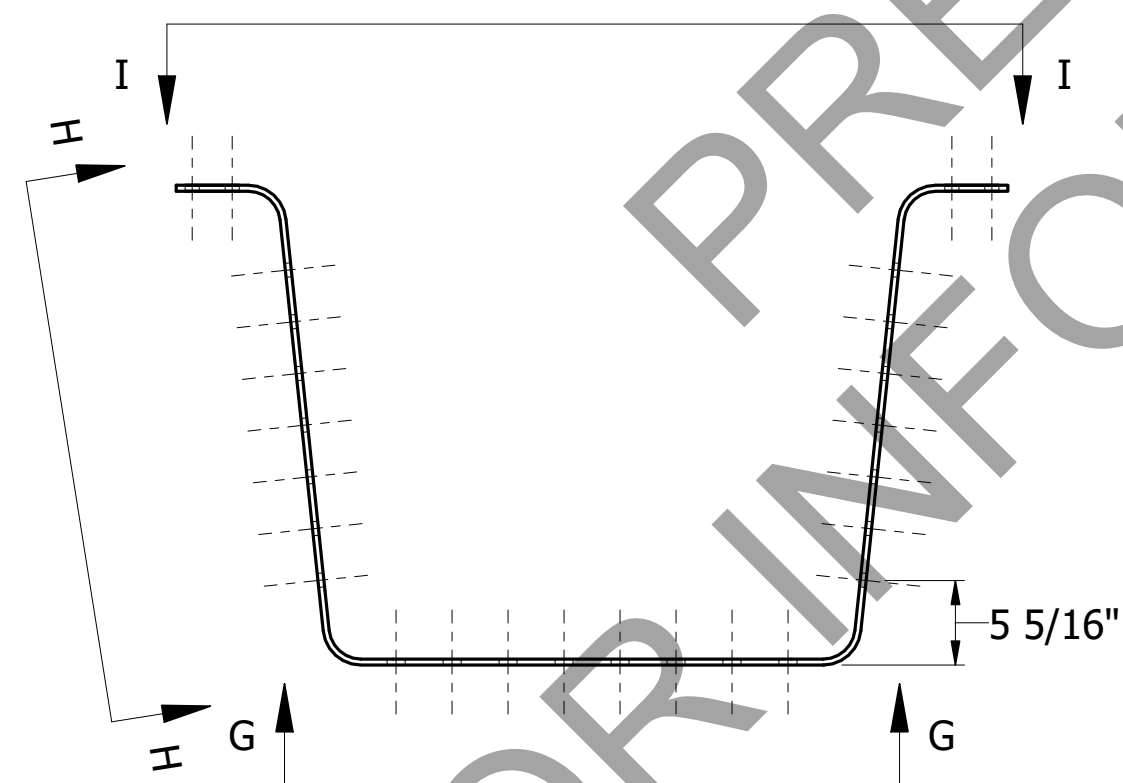
ORDER NUMBER: 529039-P1  
PAGE NUMBER: 27 OF 53  
DRAWING NUMBER: 529039P1  
REV



U-BEAM REQUIRES CHARPY V-NOTCH TESTING. (CVN)



WELD DIAPHRAGM ON OUTSIDE ONLY (TYP)  
(LOOKING NORMAL TO DIAPHRAGM  
AND CONNECTION PLATES)



PRELIMINARY INFORMATION ONLY \*\*\*\*

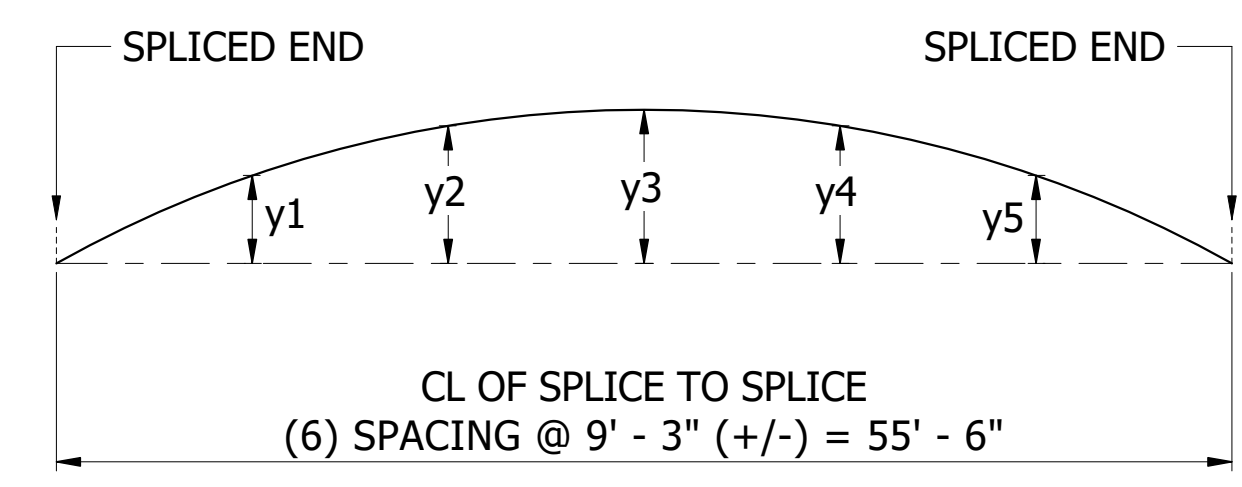
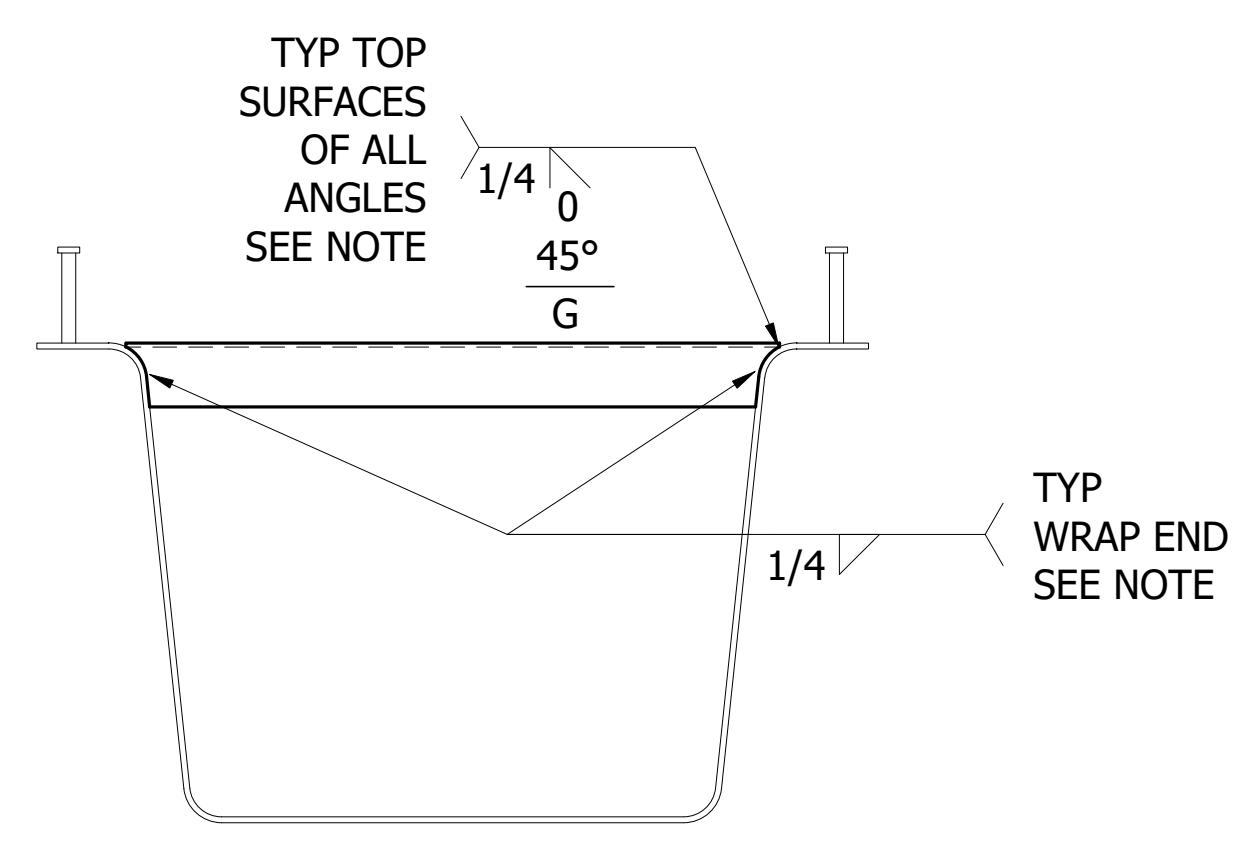
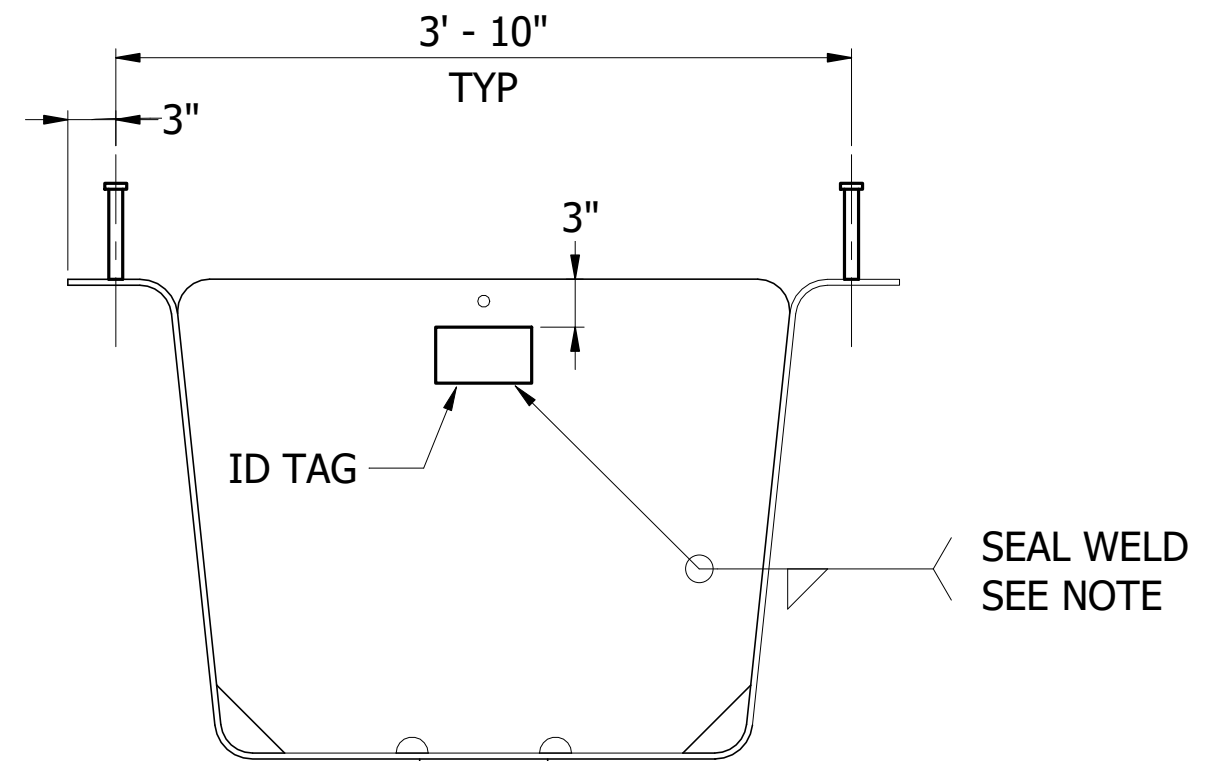
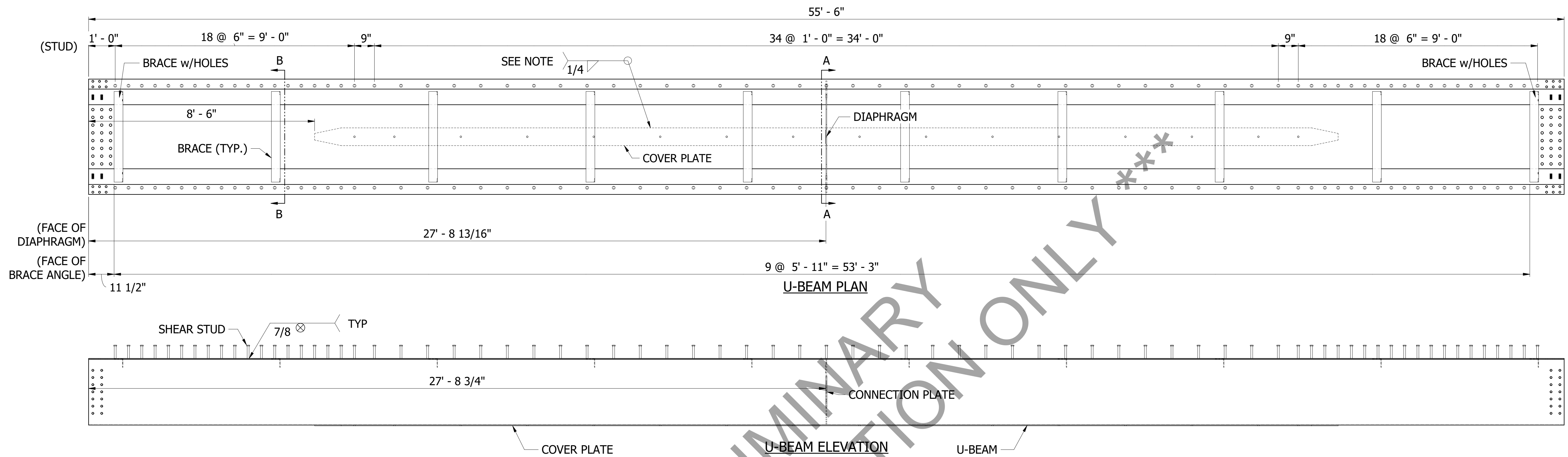
JOB: IMPERIAL CO., CA.  
DOGWOOD ROAD OVER CENTRAL MAIN CANAL  
BRIDGE NO: 58C-0226 / COUNTY PROJECT 6222

TITLE: E1-1 SHEET 2

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ORDER NUMBER: 529039-P1  
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REV



CAMBER ORDINATES	U-BEAM E1-2
y1	1 7/8"
y2	2 15/16"
y3	3 5/16"
y4	2 15/16"
y5	1 7/8"

**WELD NOTE:**  
- SEE WELDING SECTION ON COVER SHEET FOR WELDING SPECIFICATIONS.

**NOTE:**  
- REFERENCE FRAMING PLAN DRAWING FOR OVERALL GIRDER ASSEMBLY.

LABEL	DESCRIPTION	QTY PER ASSY
U-BEAM	U30 x 55' - 6" GIRDER	1
BRACE	L4x4x1/4 x 3'-4 7/8"	8
BRACE w/HOLES	L4x4x1/4 x 3'-4 7/8" w/(2) 3/4"Ø HOLES	2
CONNEX PLATE	PL 1/2" x (6 1/4" / 7 3/4") x 1'-2"	2
COVER PLATE	PL 3/8" x 8" x 38' - 6"	1
DIAPHRAGM	PL 3/8" x 2'-5 5/8" x 3'-2 1/4"	1
SHEAR STUD	7/8"Ø x 6" SHEAR STUD	146
TAG	ID TAG	1

JOB IMPERIAL CO., CA.  
DOGWOOD ROAD OVER CENTRAL MAIN CANAL  
BRIDGE NO: 58C-0226 / COUNTY PROJECT 6222

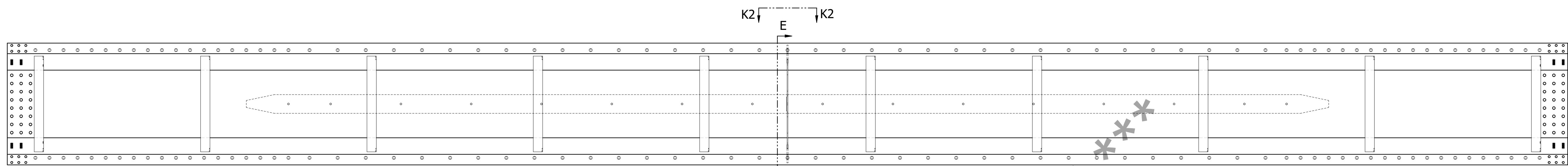
TITLE E1-2 SHEET 1

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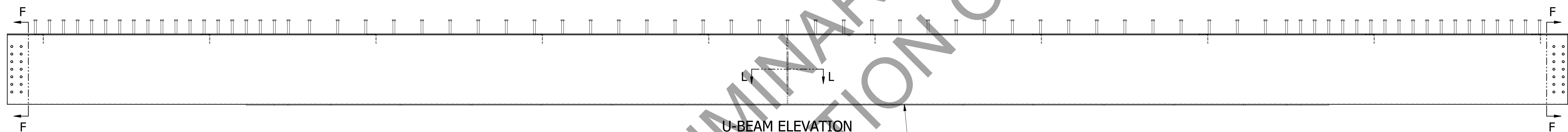


ORDER NUMBER: 529039-P1  
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\*\*\* PRELIMINARY FOR INFORMATION ONLY \*\*\*

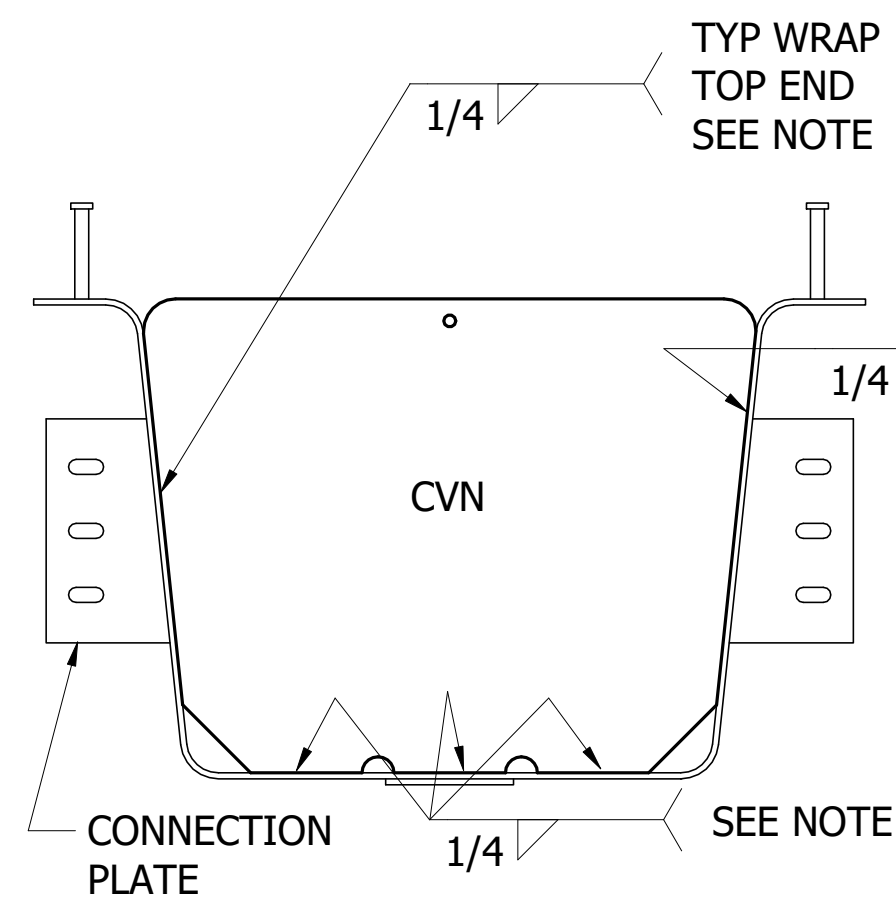


U-BEAM PLAN



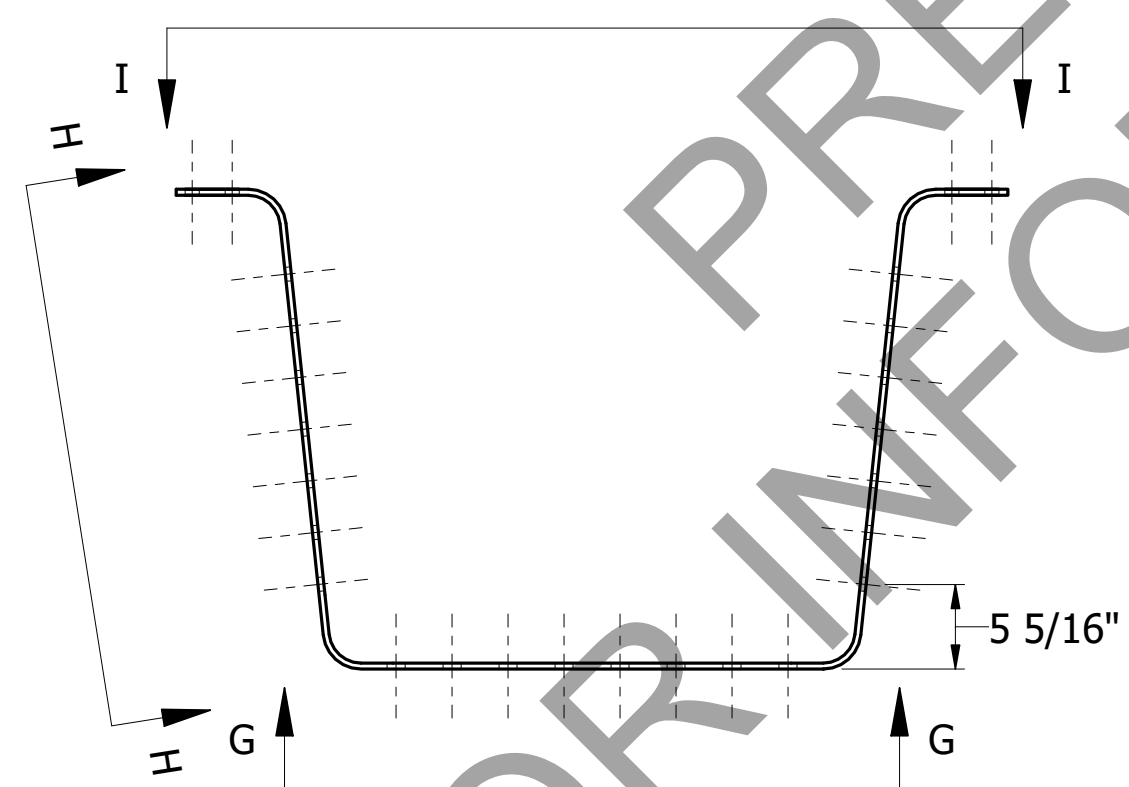
U-BEAM ELEVATION

U-BEAM REQUIRES CHARPY V-NOTCH TESTING. (CVN)

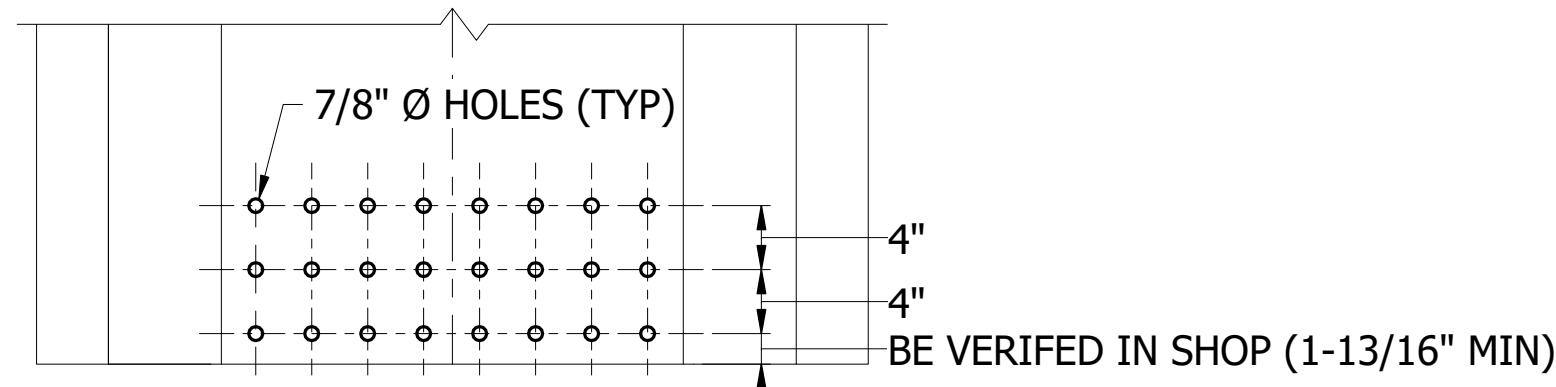


SECTION E-E

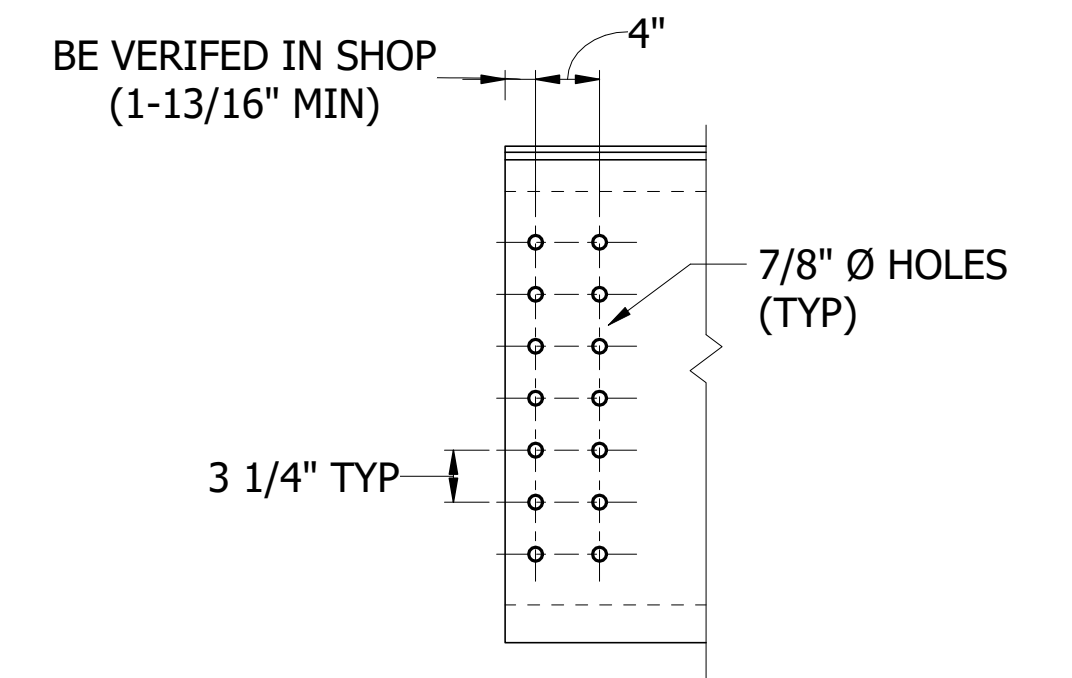
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(LOOKING NORMAL TO DIAPHRAGM  
AND CONNECTION PLATES)



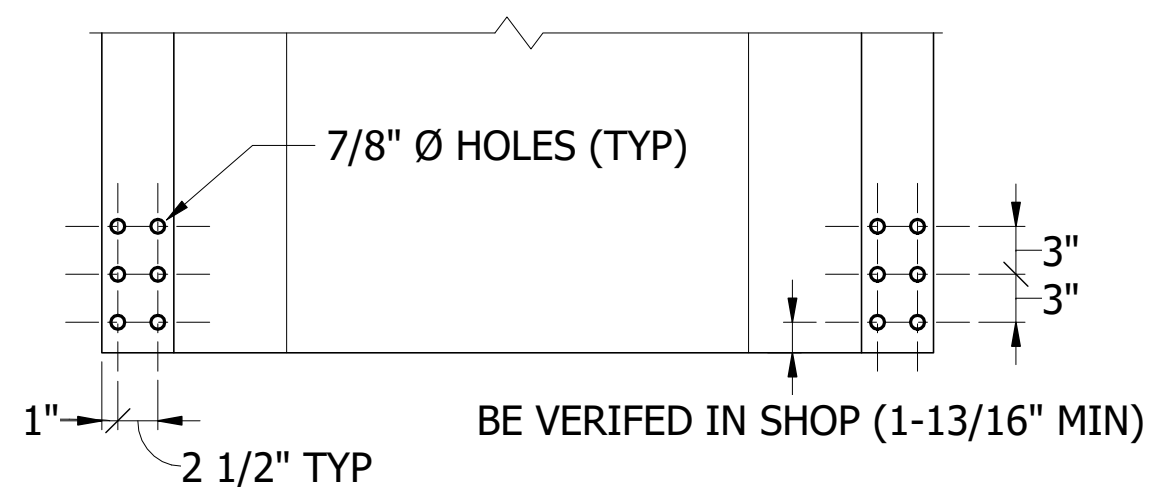
SECTION F-F



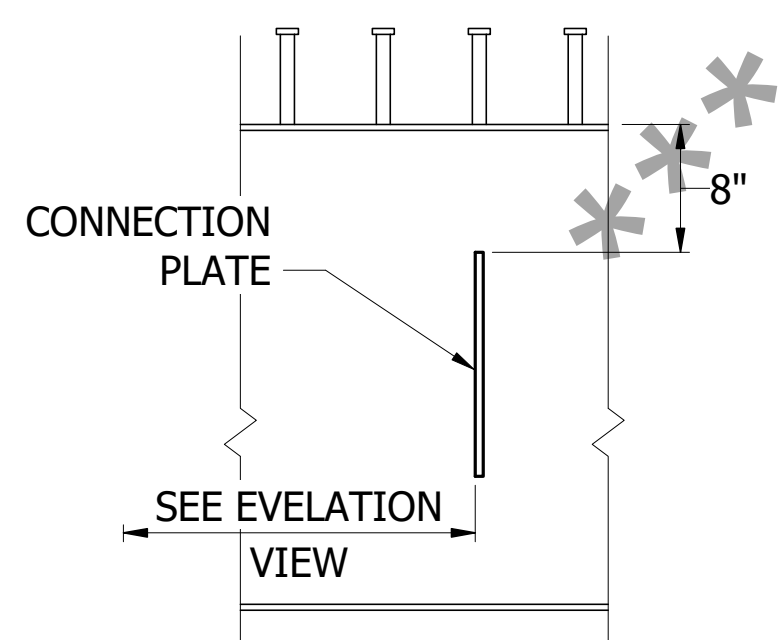
SECTION G-G



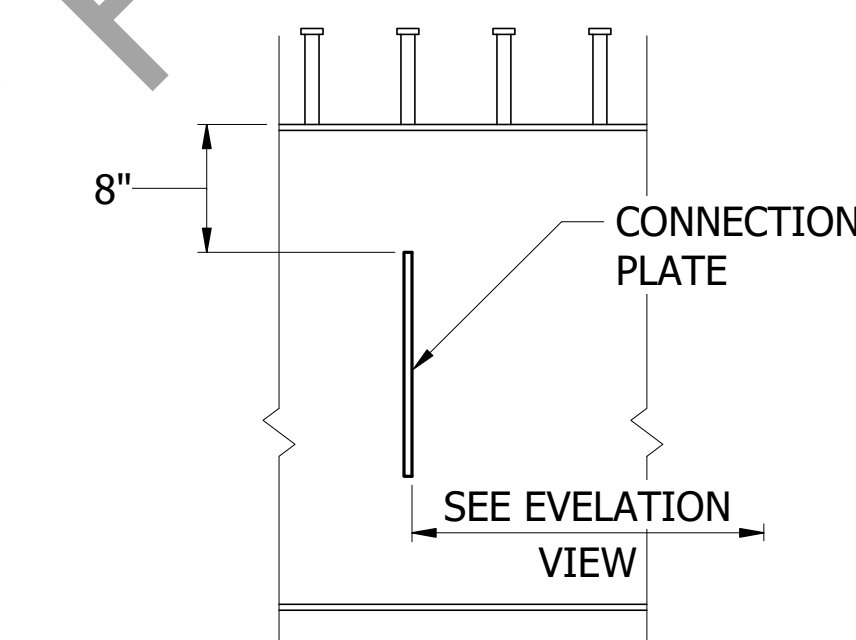
SECTION H-H



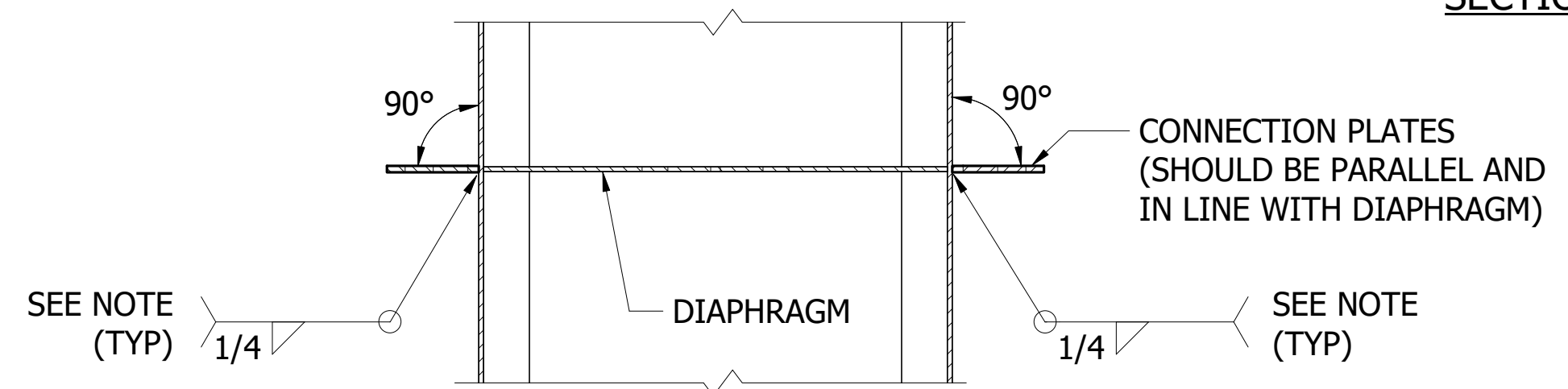
SECTION I-I



SECTION K1-K1



SECTION K2-K2



SECTION L-L  
(CONNECTION PLATE DETAIL)

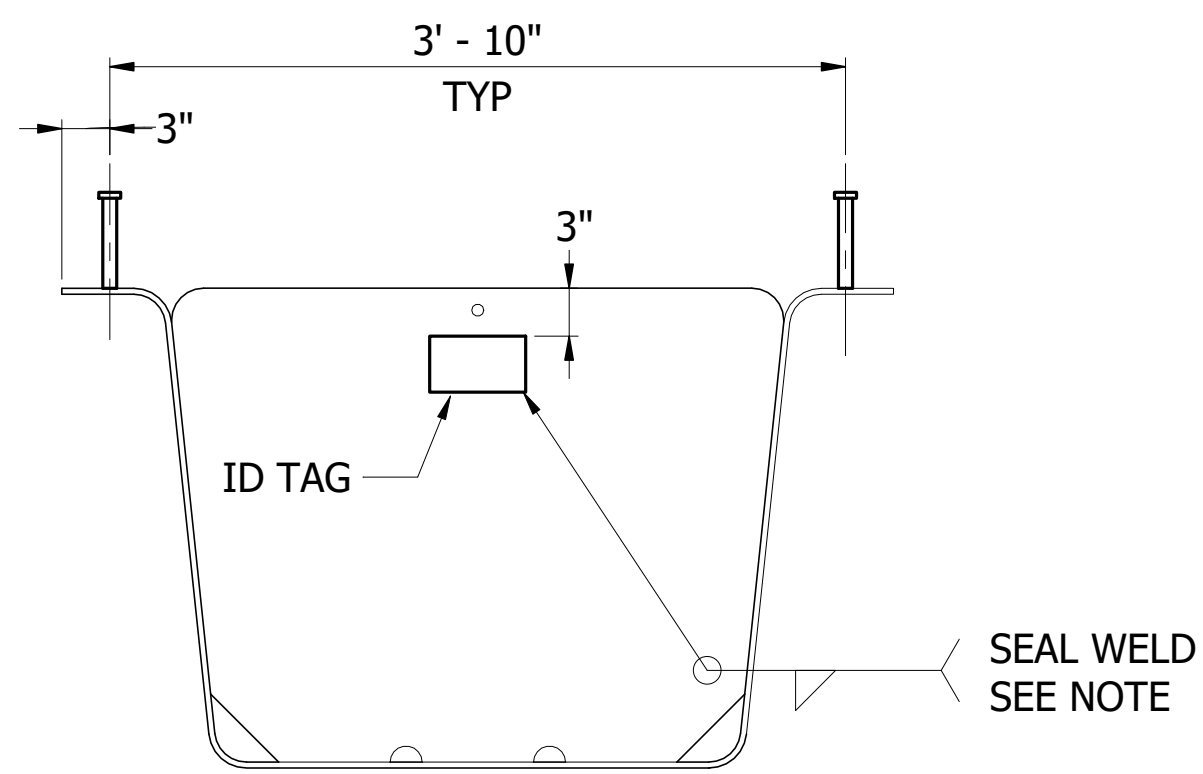
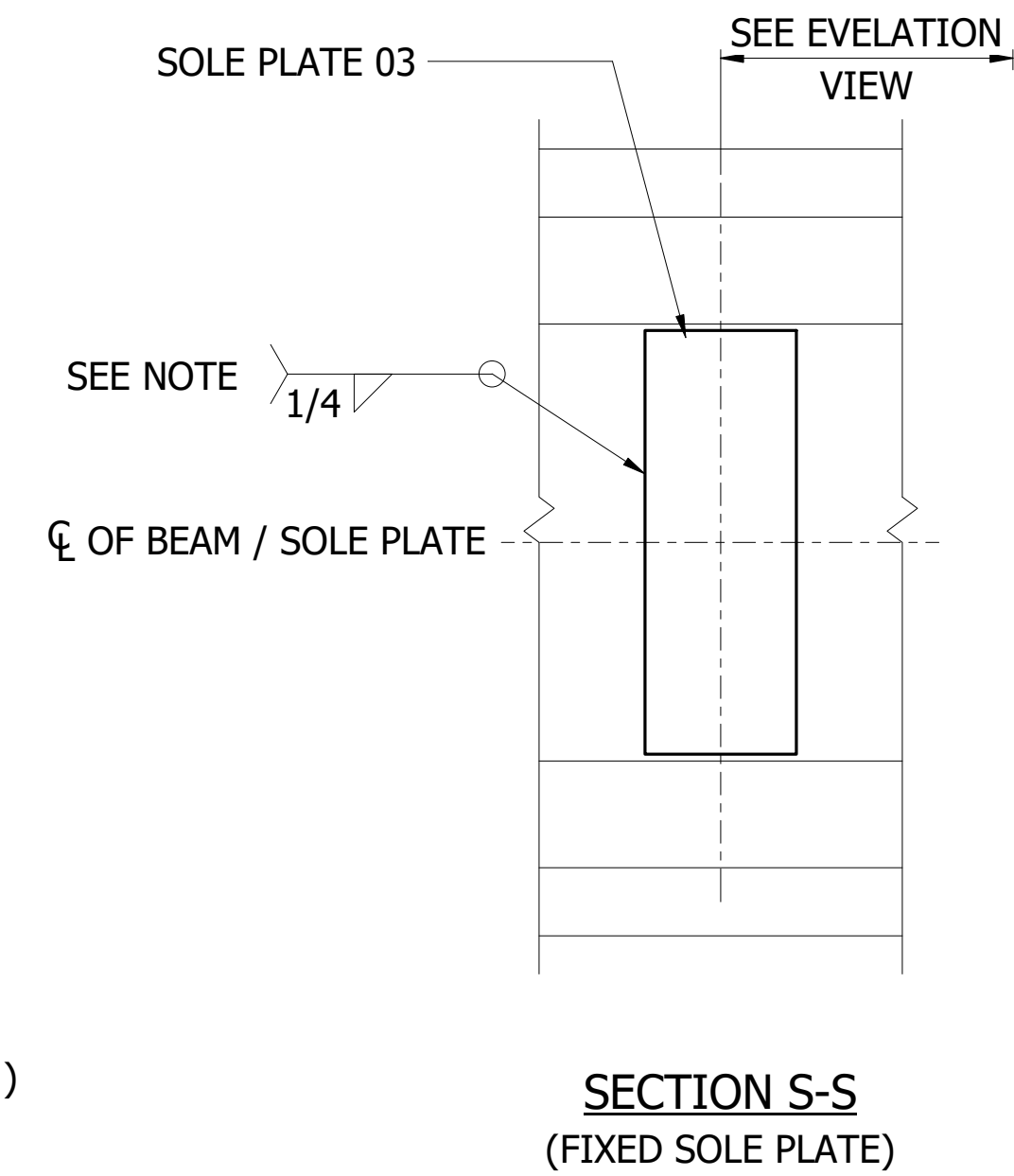
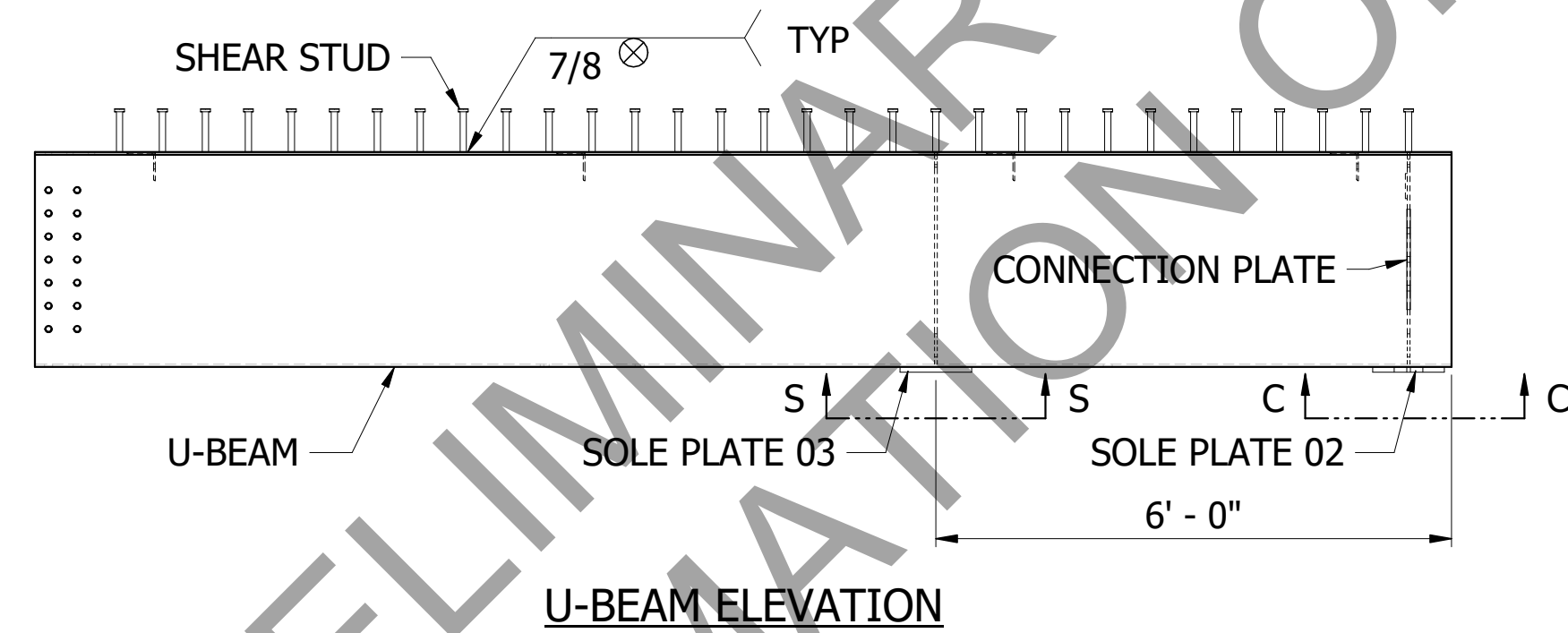
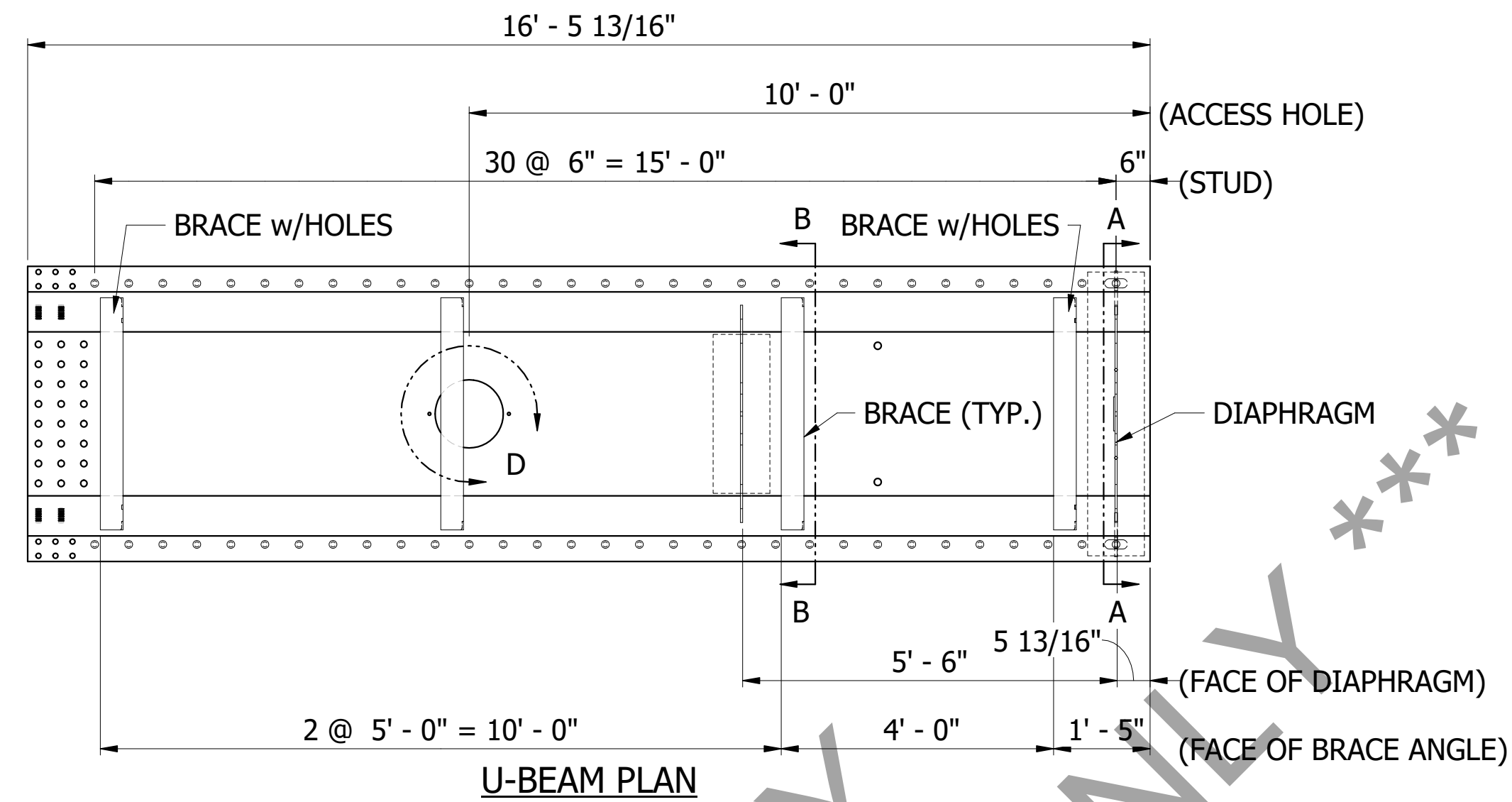
JOB IMPERIAL CO., CA.  
DOGWOOD ROAD OVER CENTRAL MAIN CANAL  
BRIDGE NO: 58C-0226 / COUNTY PROJECT 6222

TITLE E1-2 SHEET 2

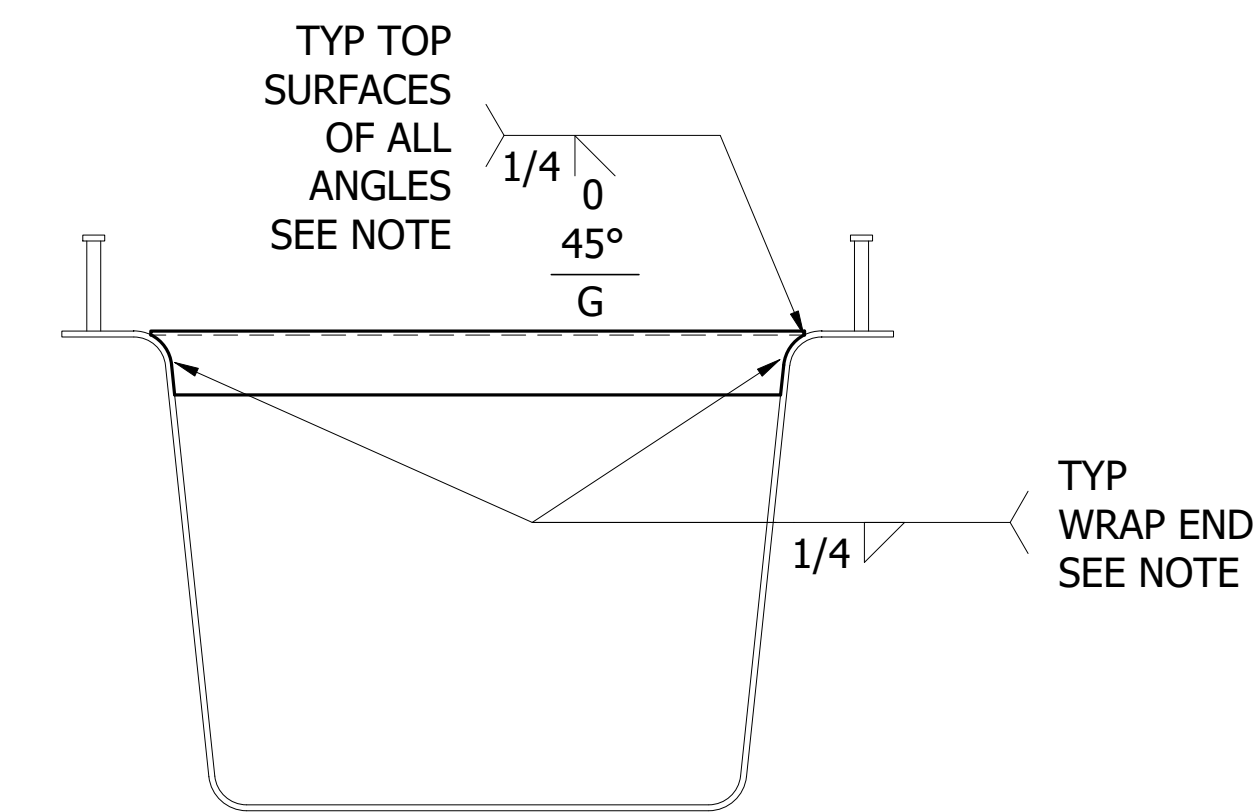
THE DESIGN AND DETAILS CONTAINED IN THESE DRAWINGS ARE BASED ON VALMONT® INDUSTRIES, INC. STANDARD SPECIFICATIONS AND MANUFACTURING PROCESS. THESE DRAWINGS ARE FURNISHED FOR INFORMATION ONLY AND ARE NOT PROJECT SPECIFIC DESIGNS.



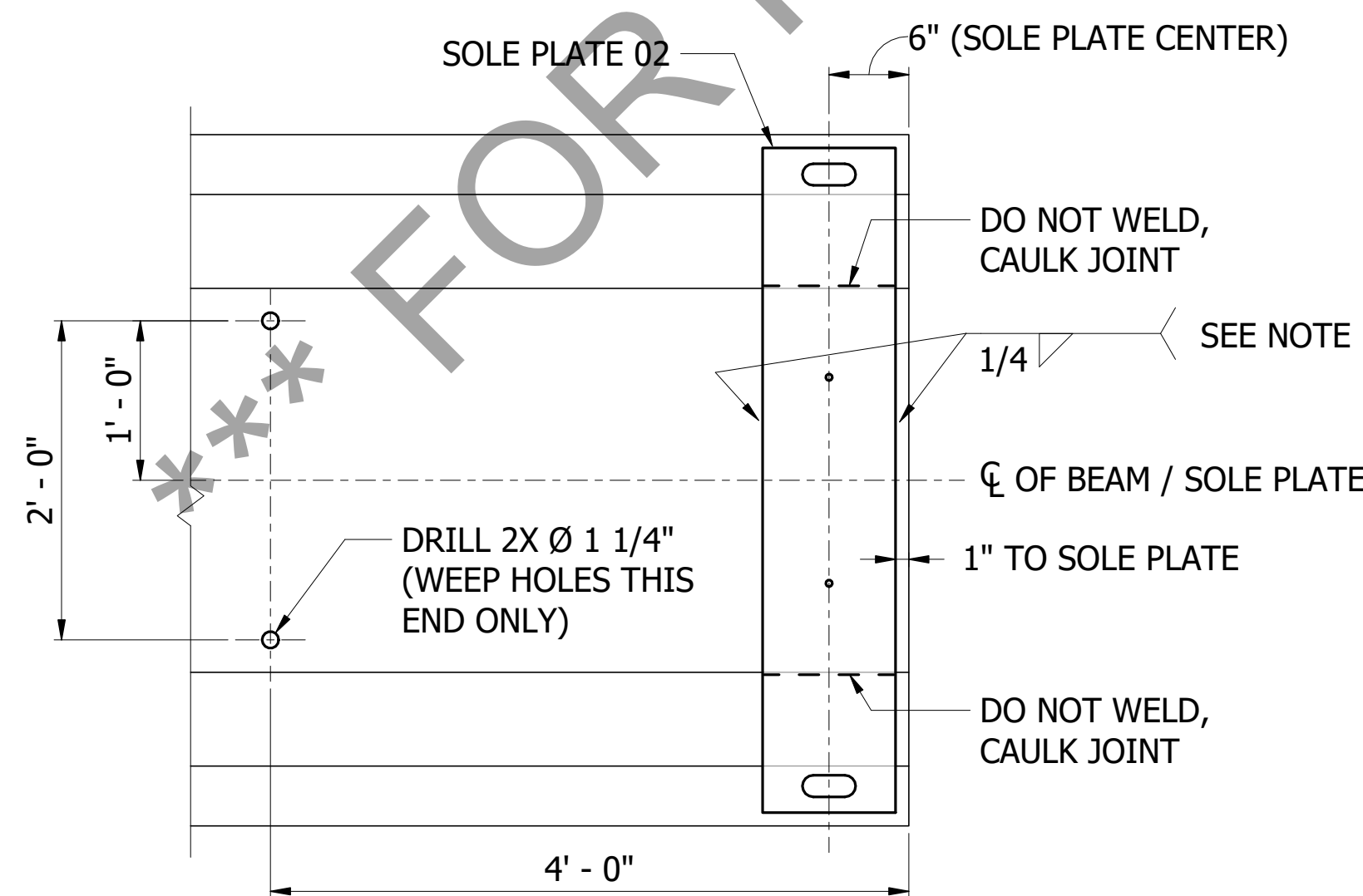
ORDER NUMBER: 529039-P1  
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REV



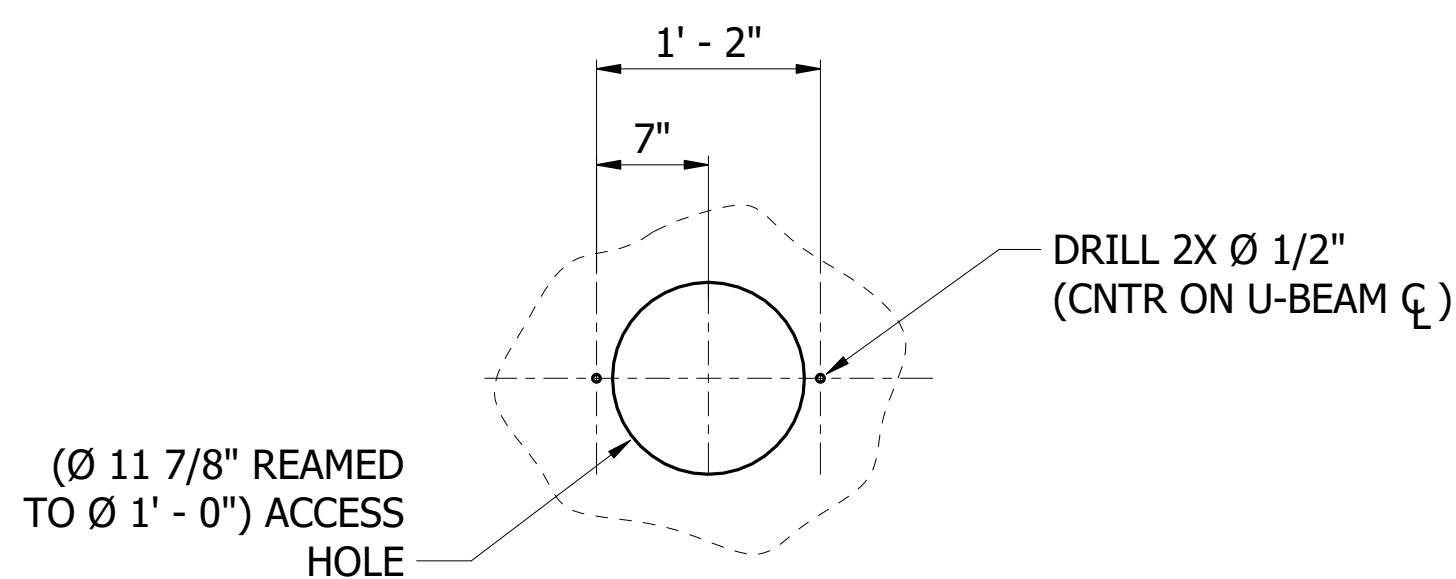
**SECTION A-A**  
(CONNECTION PLATES ARE NOT SHOWN FOR CLARITY.)



**SECTION B-B**



**SECTION C-C**  
(EXP. SOLE PLATE)



**DETAIL D**

WELD NOTE:  
- SEE WELDING SECTION ON COVER SHEET FOR WELDING SPECIFICATIONS.

NOTE:  
- REFERENCE FRAMING PLAN DRAWING FOR OVERALL GIRDER ASSEMBLY.

LABEL	DESCRIPTION	QTY PER ASSY
U-BEAM	U30 x 16' - 5 13/16" GIRDER	1
BRACE	L4x4x1/4 x 3'-4 7/8"	2
BRACE w/HOLES	L4x4x1/4 x 3'-4 7/8" w/(2) 3/4"Ø HOLES	2
CONNEX PLATE	PL 1/2" x (6 1/4" / 7 3/4") x 1'-2"	2
DIAPHRAGM	PL 3/8" x 2'-5 5/8" x 3'-2 1/4"	1
SHEAR STUD	7/8"Ø x 6" SHEAR STUD	62
SOLE PLATE 02	PL 3/4" x 10" x 4'-2" w/(2) 1/2"Ø HOLES & (2) 1 5/8"Ø x 4" SLOTTED HOLES	1
SOLE PLATE 03	PL 3/4" x 10" x 2'-4"	1
TAG	ID TAG	1

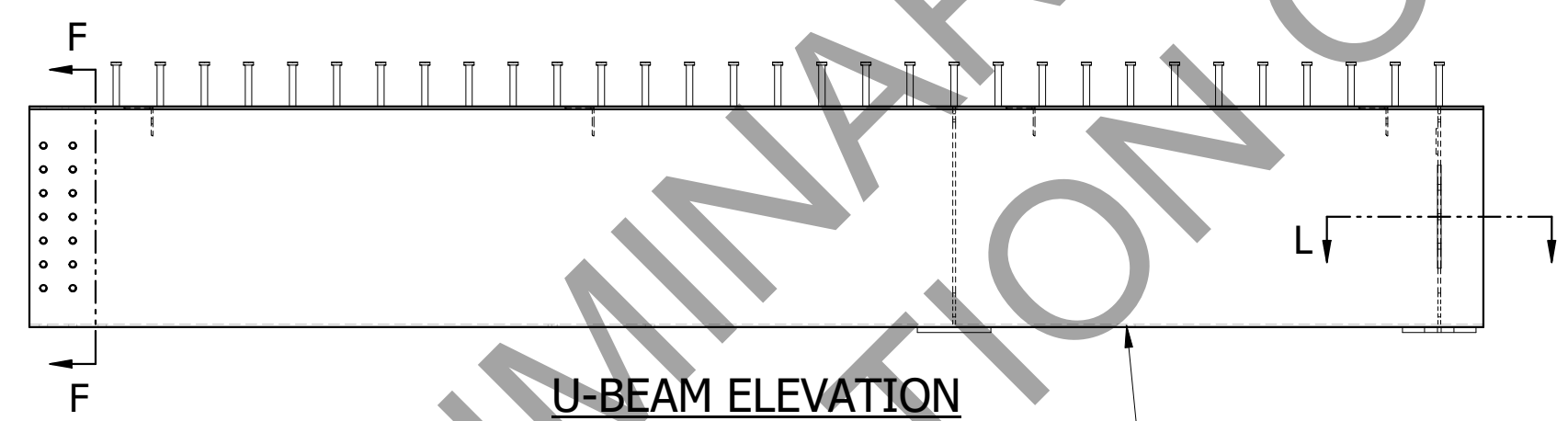
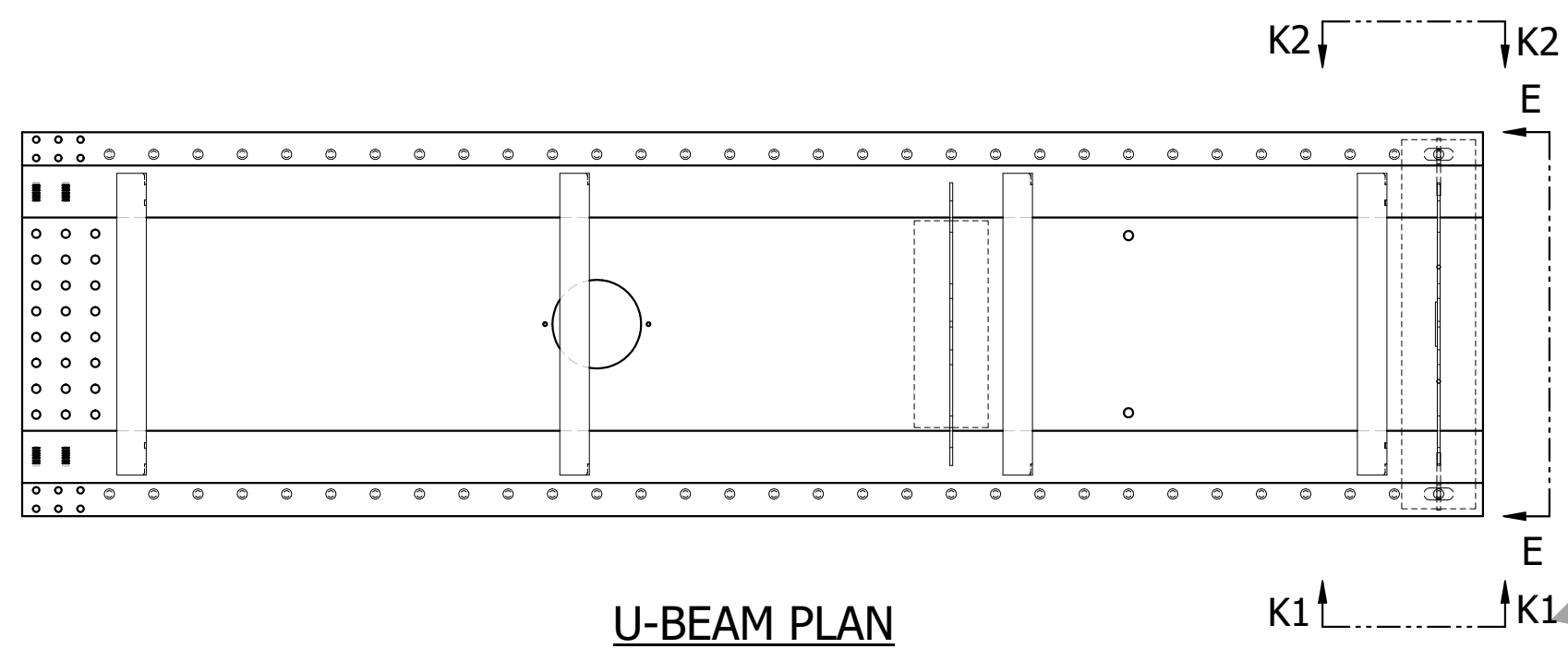
JOB IMPERIAL CO., CA.  
DOGWOOD ROAD OVER CENTRAL MAIN CANAL  
BRIDGE NO: 58C-0226 / COUNTY PROJECT 6222

TITLE E1-3 SHEET 1

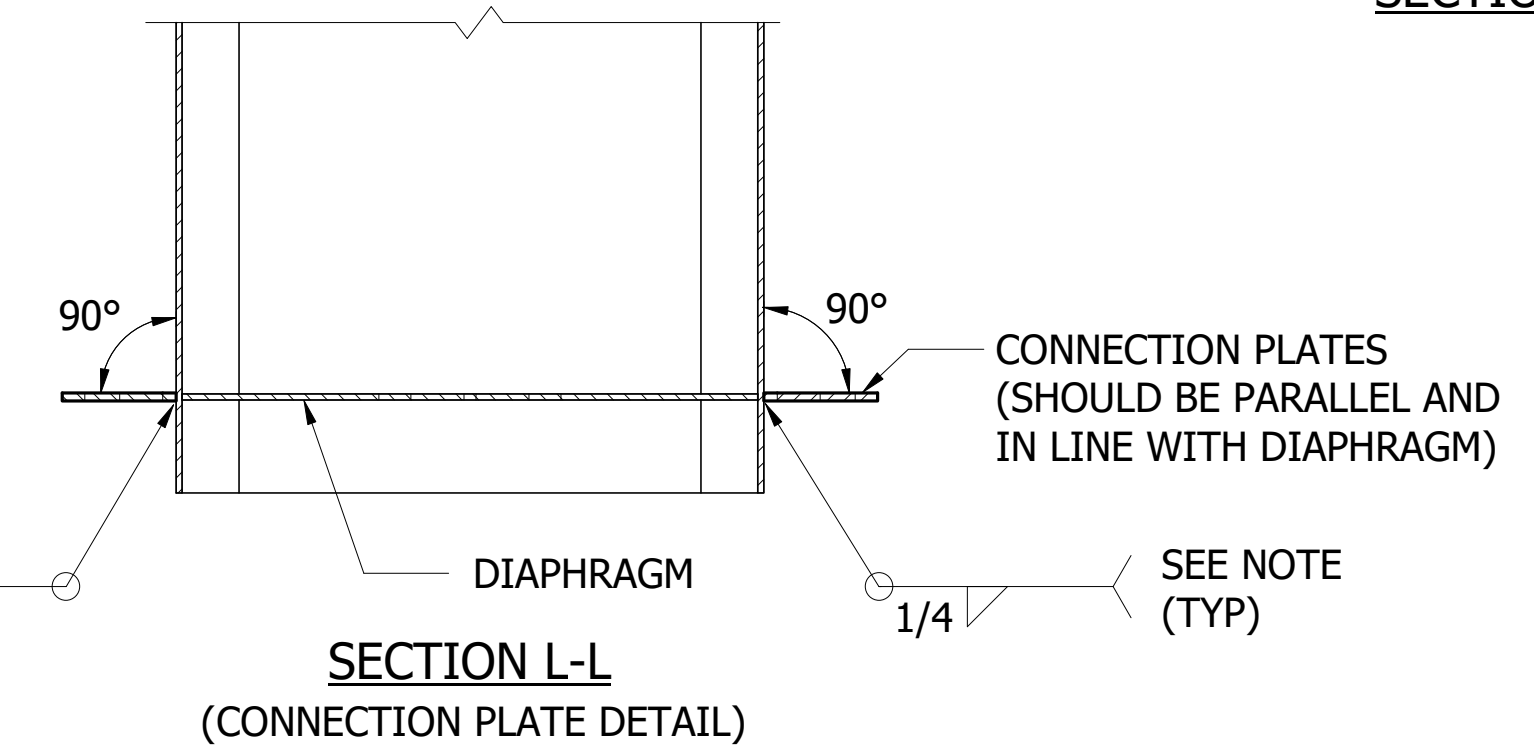
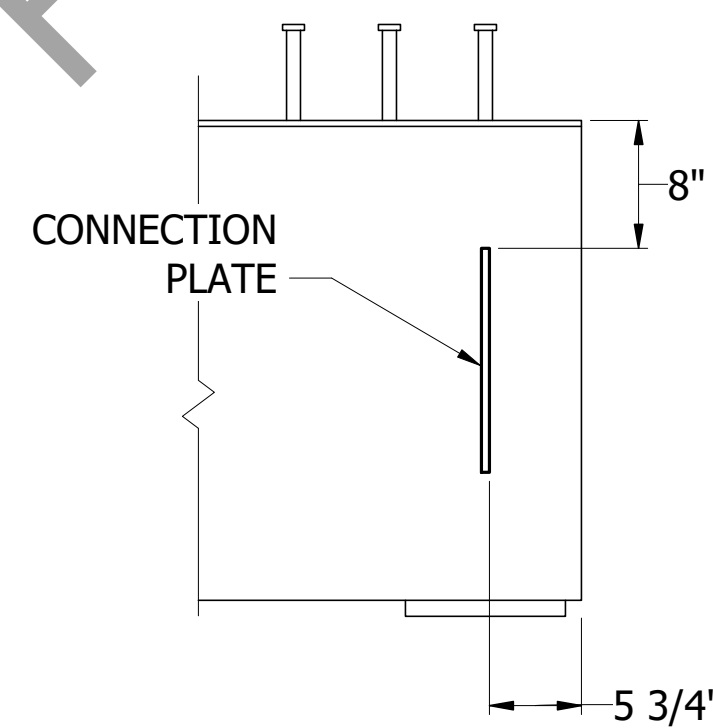
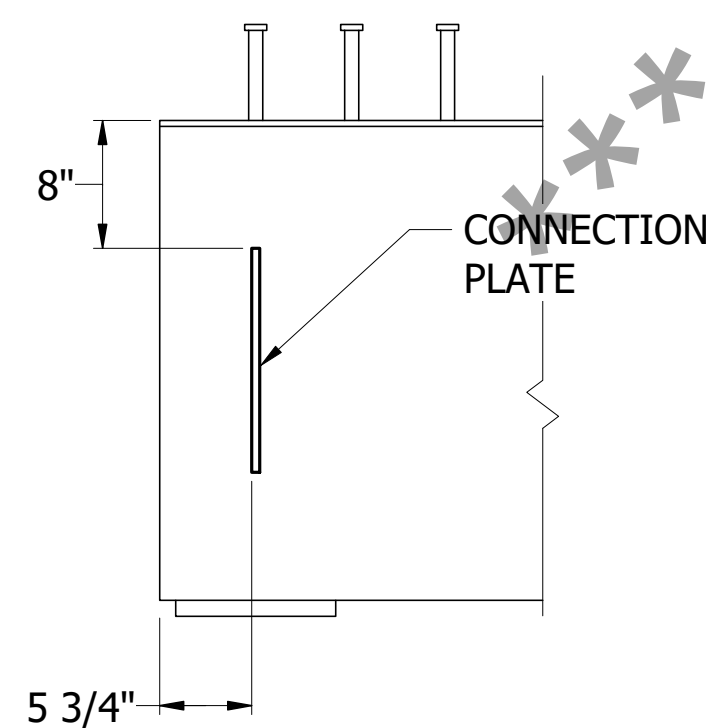
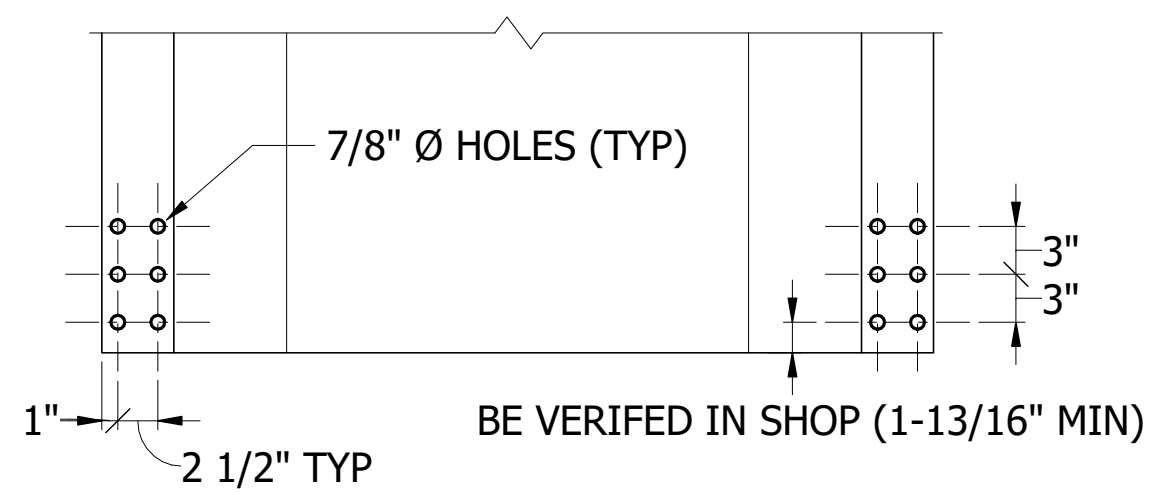
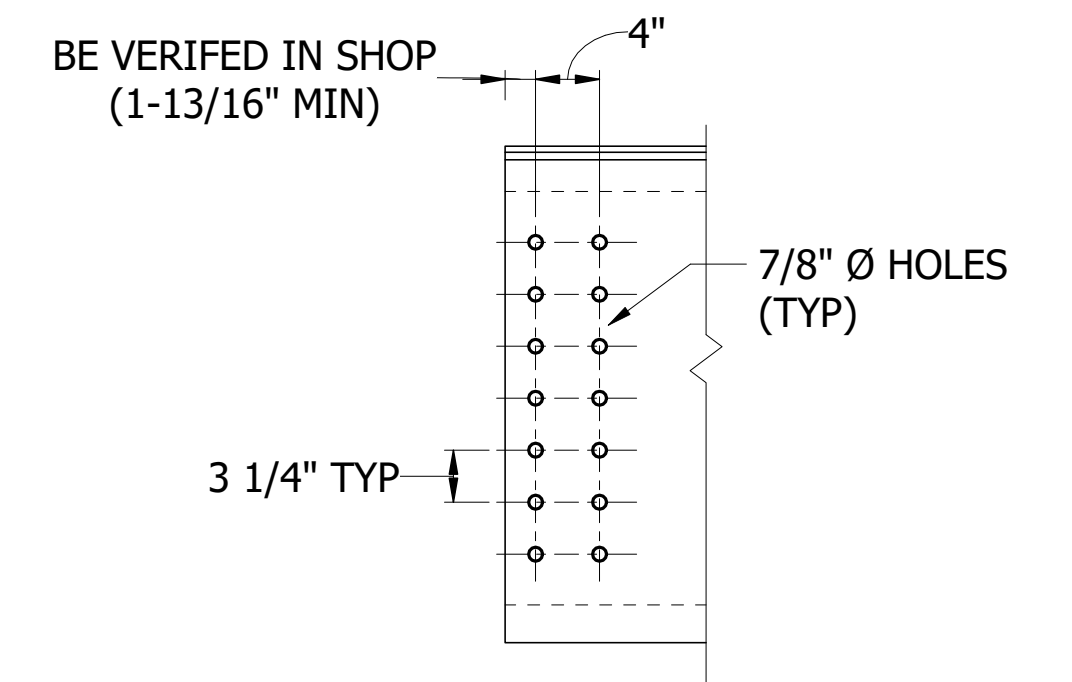
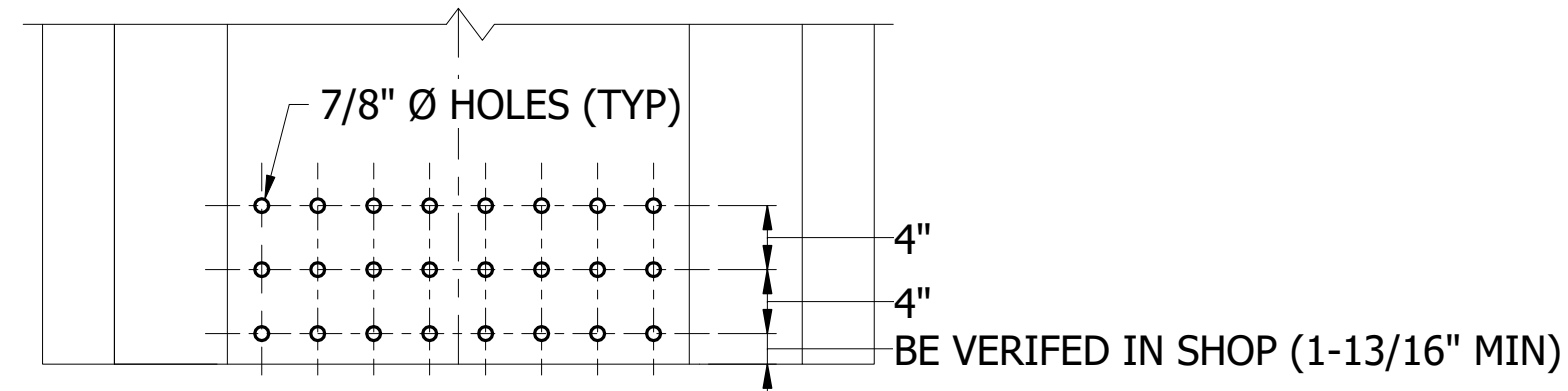
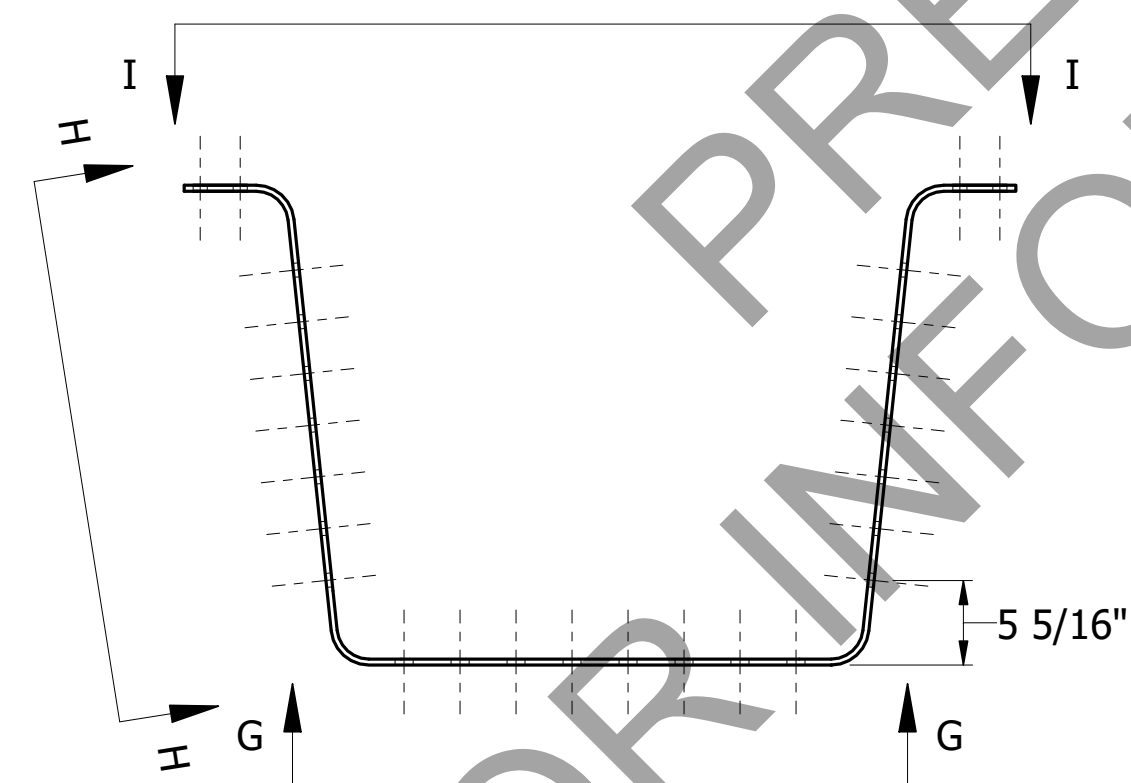
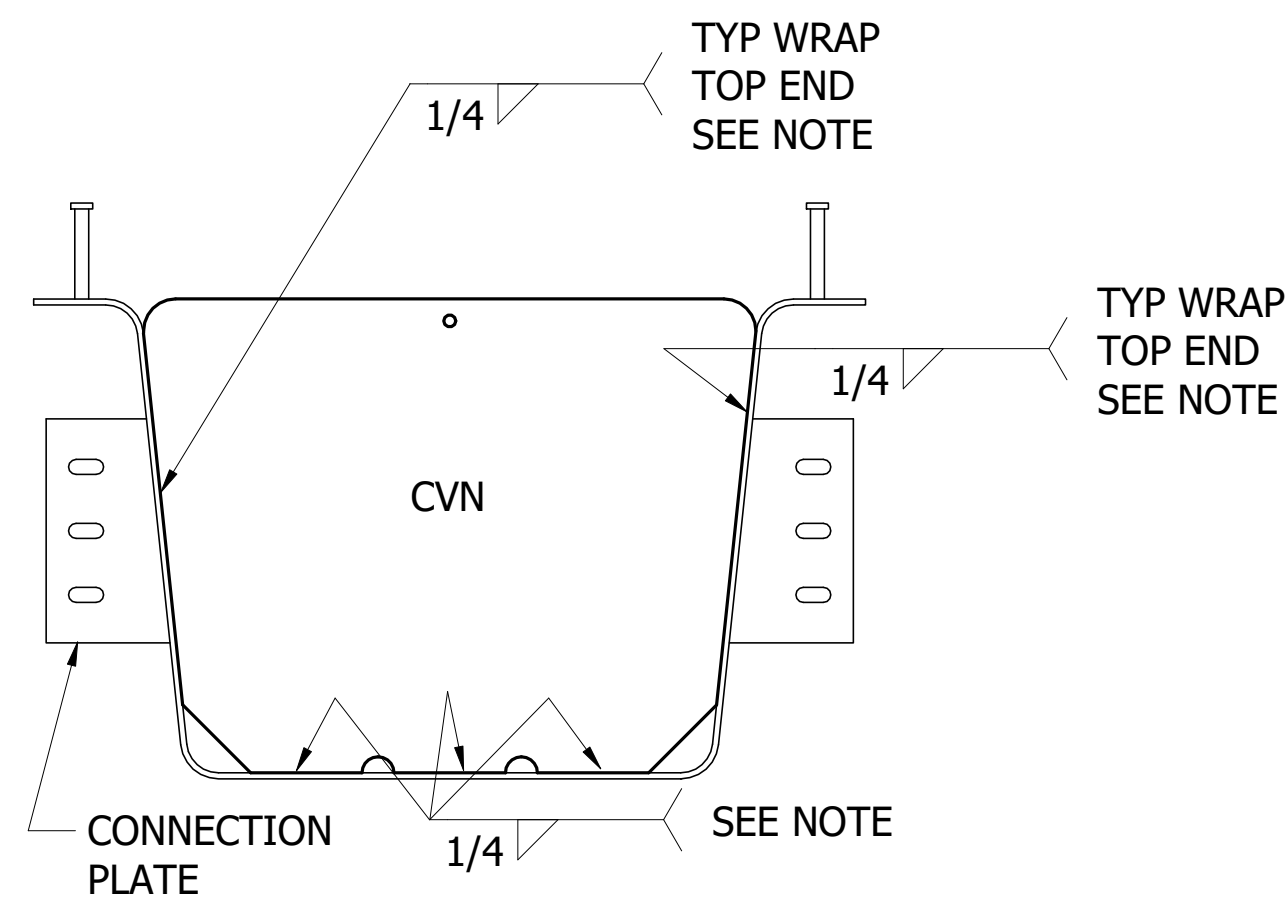
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U-BEAM REQUIRES CHARPY V-NOTCH TESTING. (CVN)



JOB IMPERIAL CO., CA.  
DOGWOOD ROAD OVER CENTRAL MAIN CANAL  
BRIDGE NO: 58C-0226 / COUNTY PROJECT 6222

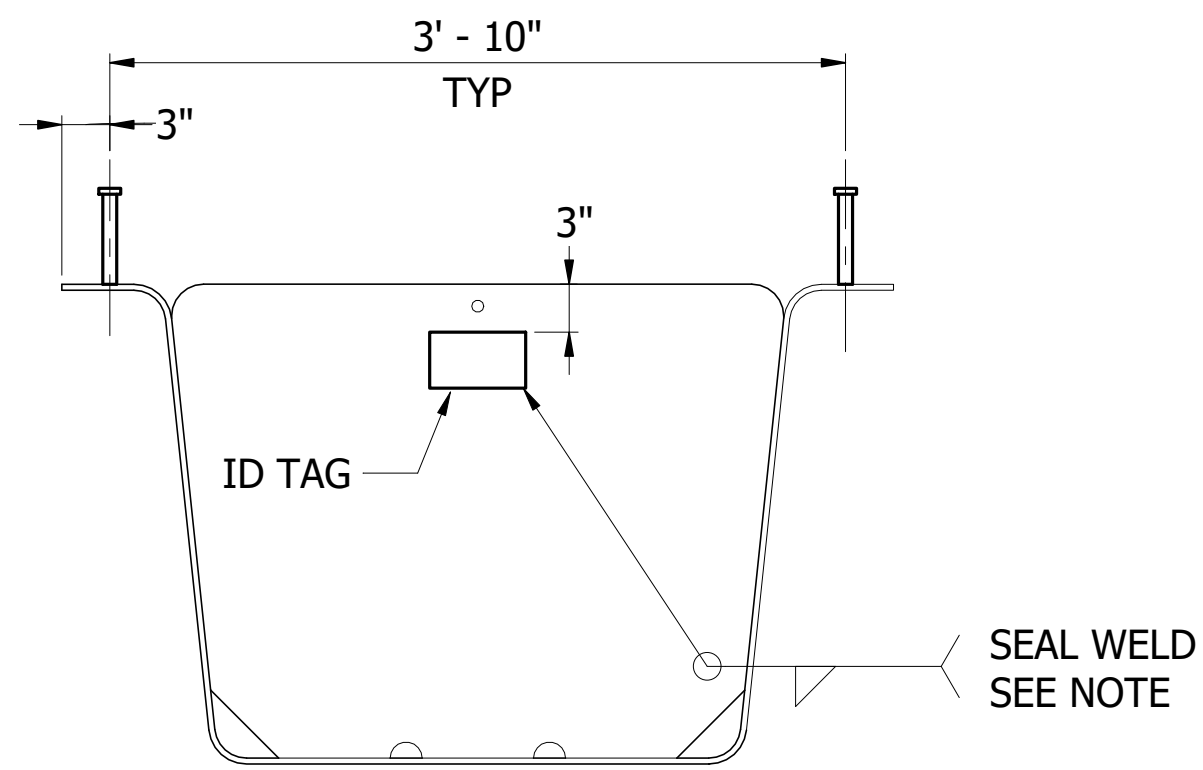
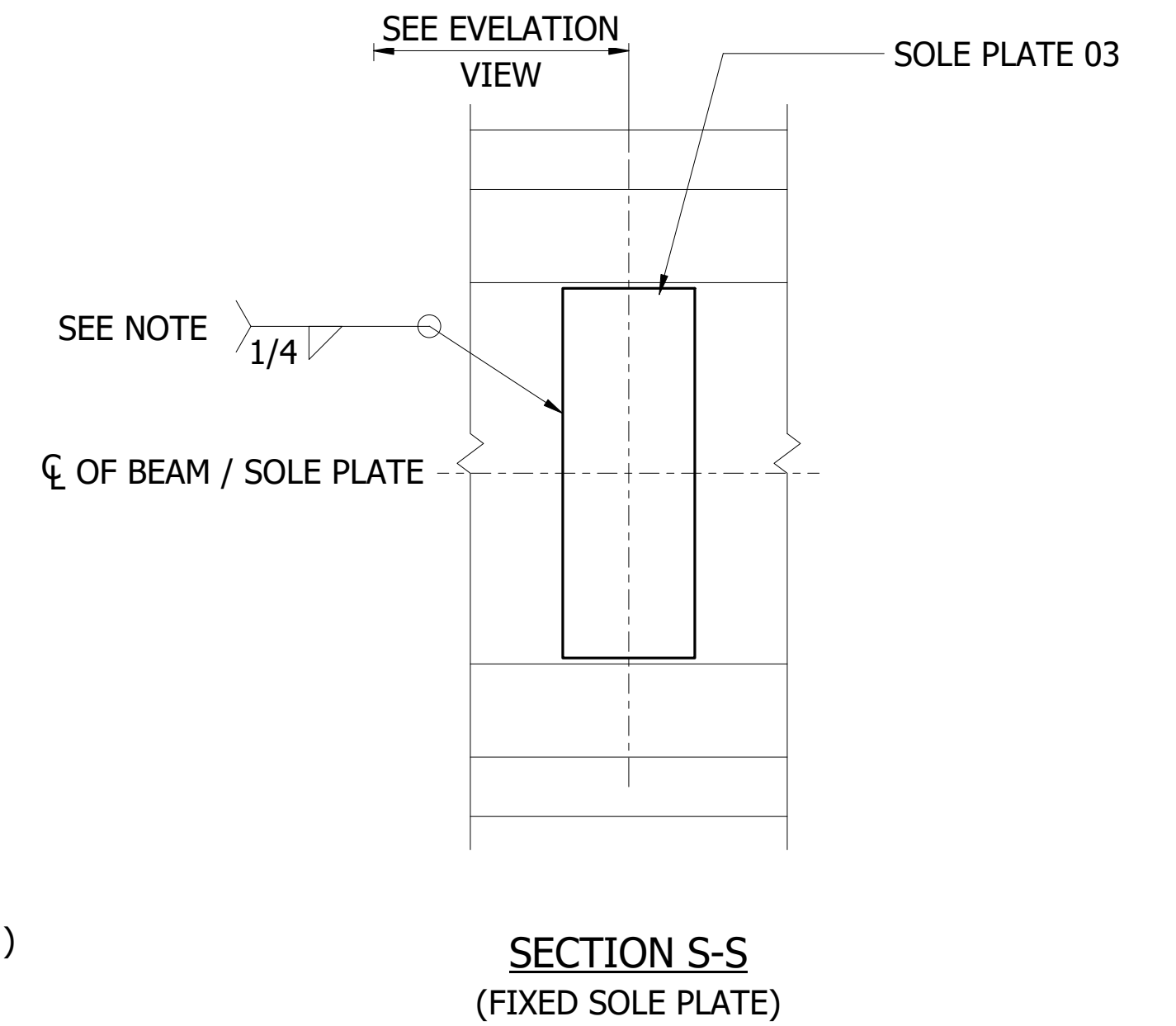
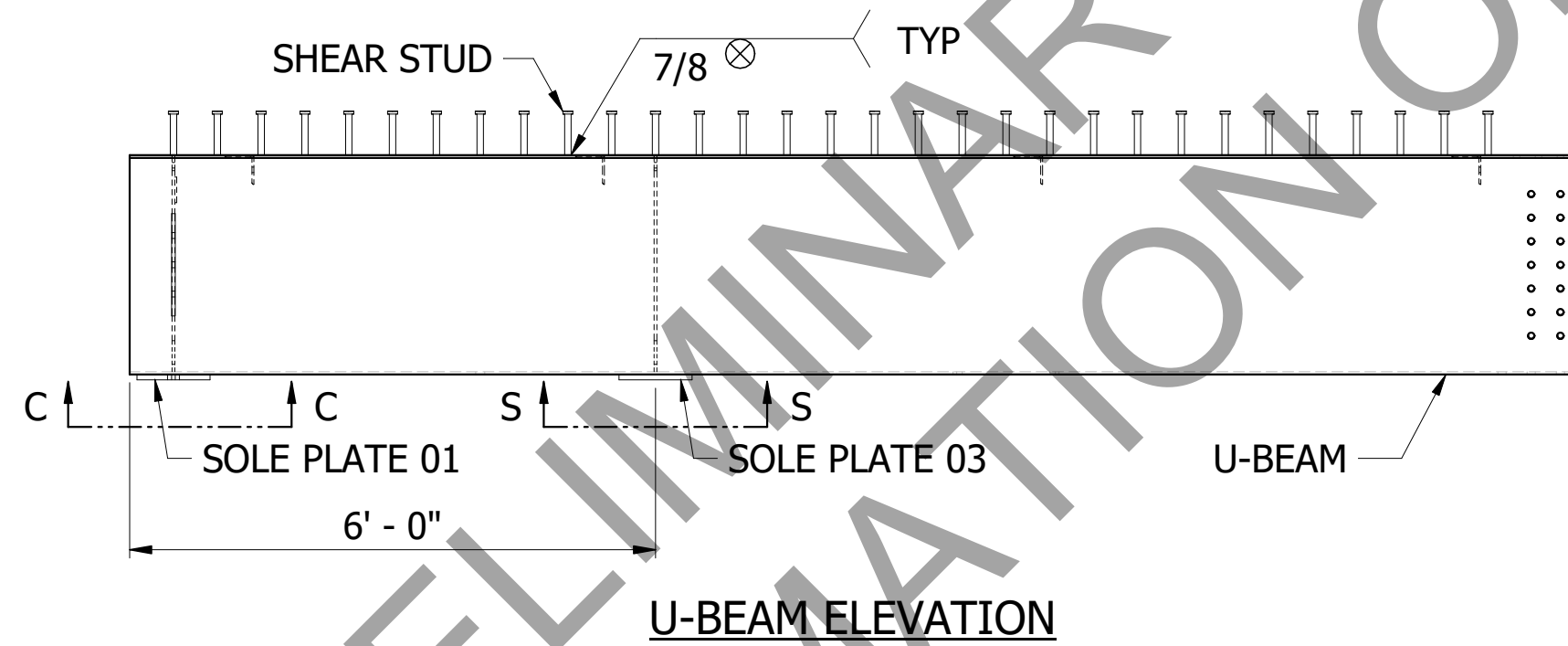
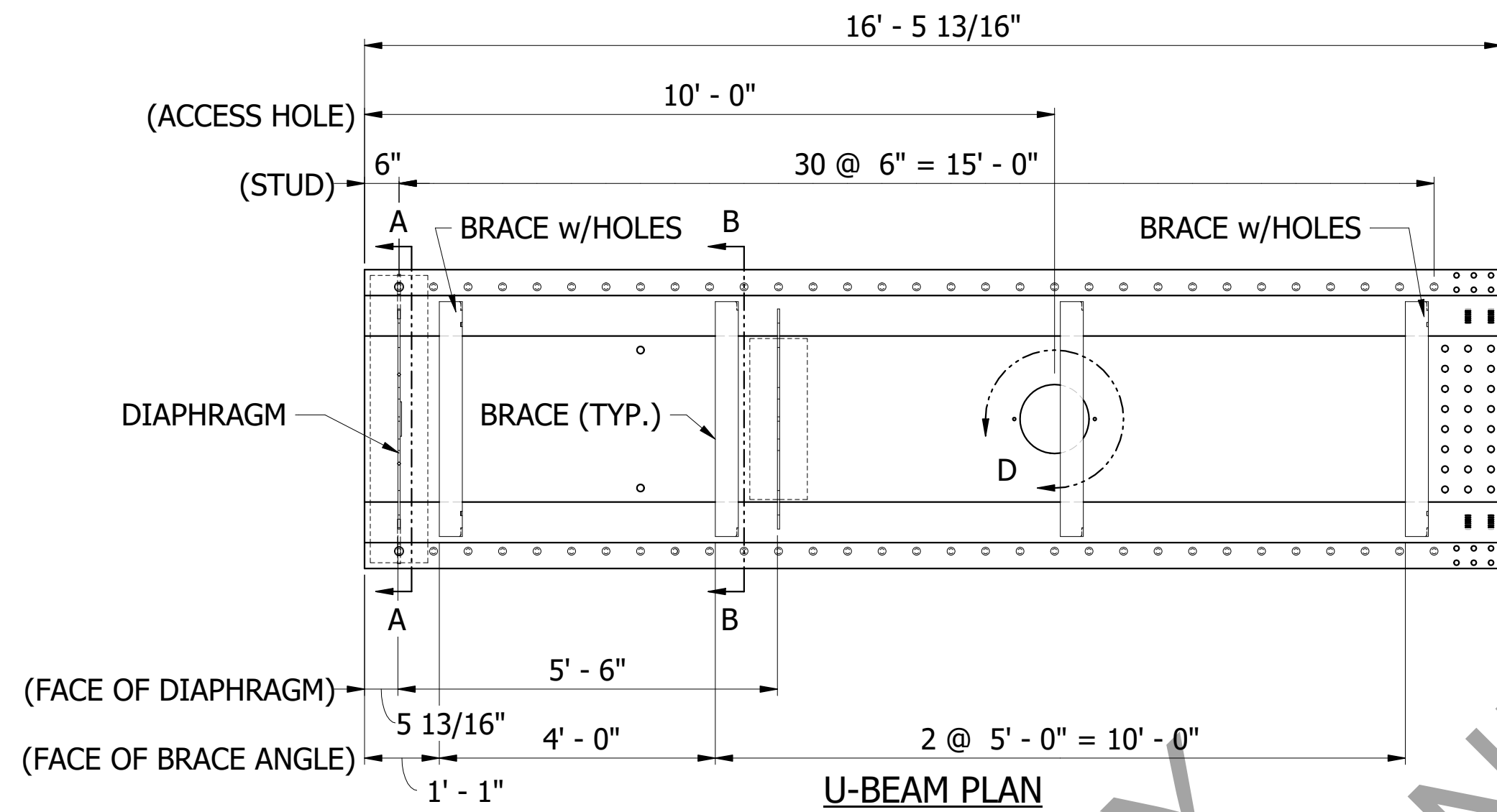
TITLE E1-3 SHEET 2

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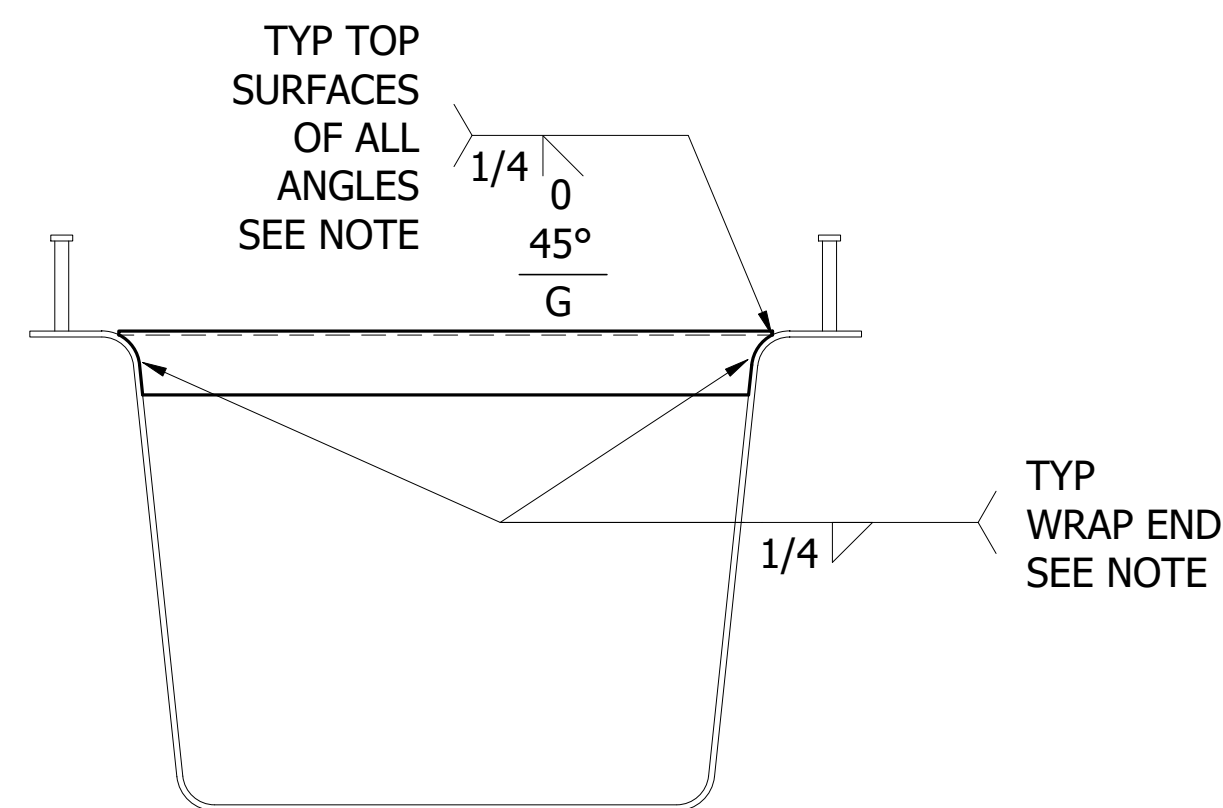


ORDER NUMBER: 529039-P1  
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REV

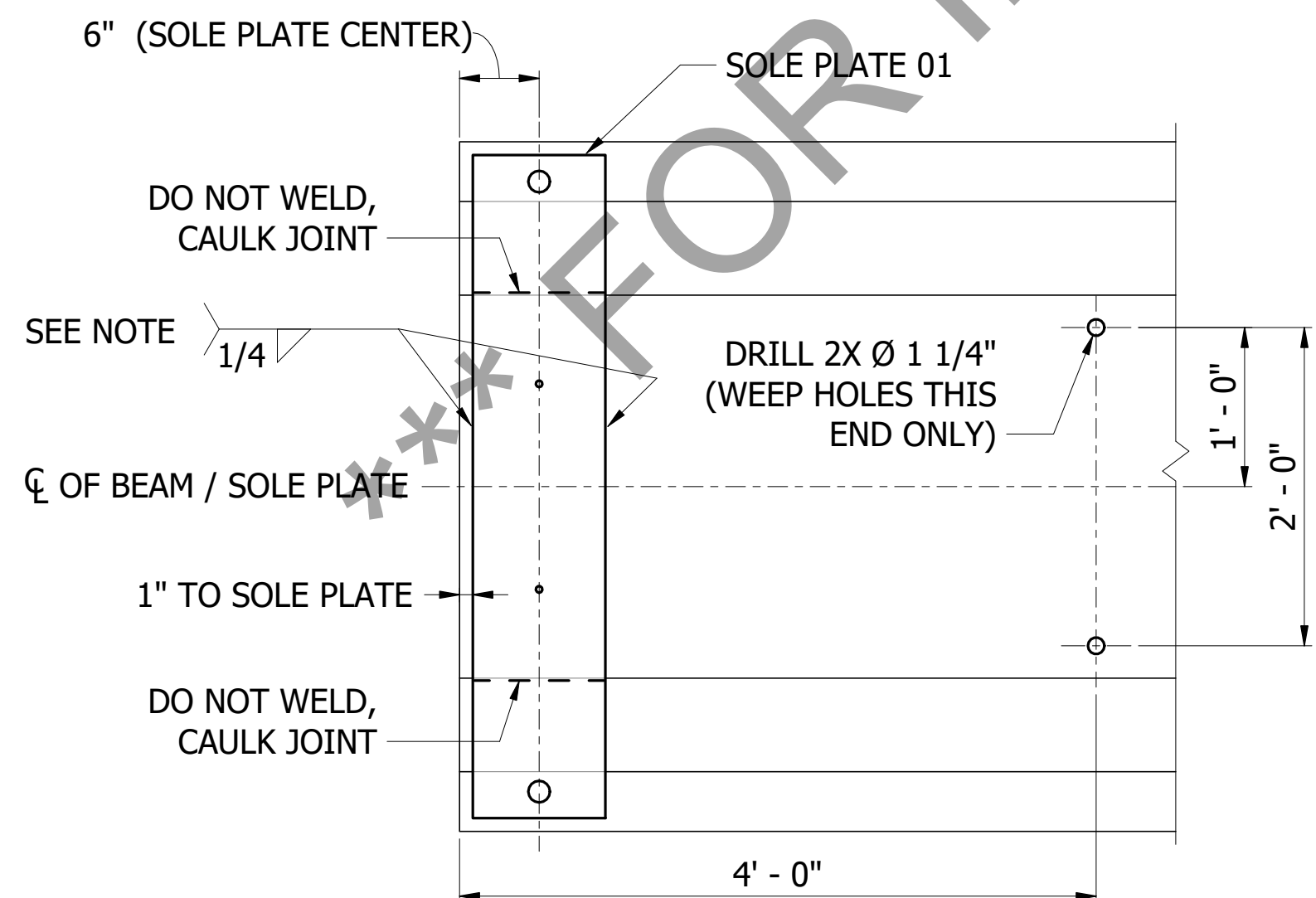




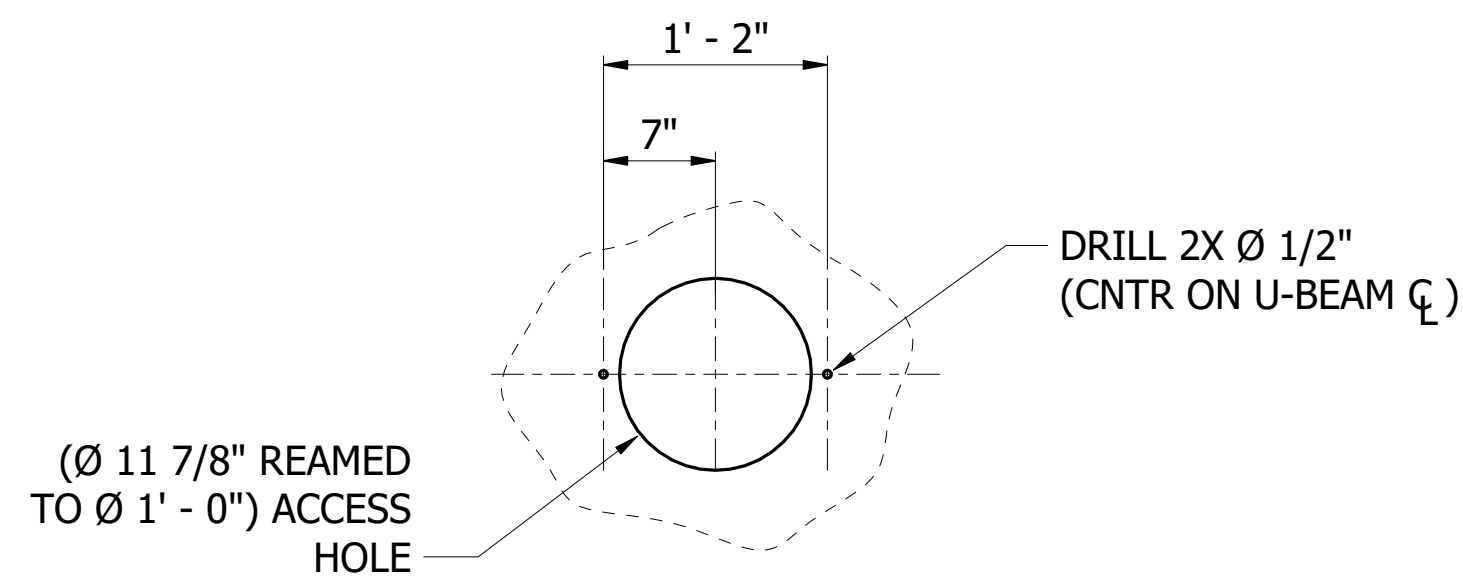
**SECTION A-A**  
(CONNECTION PLATES ARE NOT SHOWN FOR CLARITY.)



**SECTION B-B**



**SECTION C-C**  
(FIXED SOLE PLATE)



**DETAIL D**

**WELD NOTE:**  
- SEE WELDING SECTION ON COVER SHEET FOR WELDING SPECIFICATIONS.

**NOTE:**  
- REFERENCE FRAMING PLAN DRAWING FOR OVERALL GIRDER ASSEMBLY.

LABEL	DESCRIPTION	QTY PER ASSY
U-BEAM	U30 x 16' - 5 13/16" GIRDER	1
BRACE	L4x4x1/4 x 3'-4 7/8"	2
BRACE w/HOLES	L4x4x1/4 x 3'-4 7/8" w/(2) 3/4"Ø HOLES	2
CONNEX PLATE	PL 1/2" x (6 1/4" / 7 3/4") x 1'-2"	2
DIAPHRAGM	PL 3/8" x 2'-5 5/8" x 3'-2 1/4"	2
SHEAR STUD	7/8"Ø x 6" SHEAR STUD	62
SOLE PLATE 01	PL 3/4" x 10" x 4'-2" w/(2) 1 5/8"Ø & (2) 1/2"Ø HOLES	1
SOLE PLATE 03	PL 3/4" x 10" x 2'-4"	1
TAG	ID TAG	1

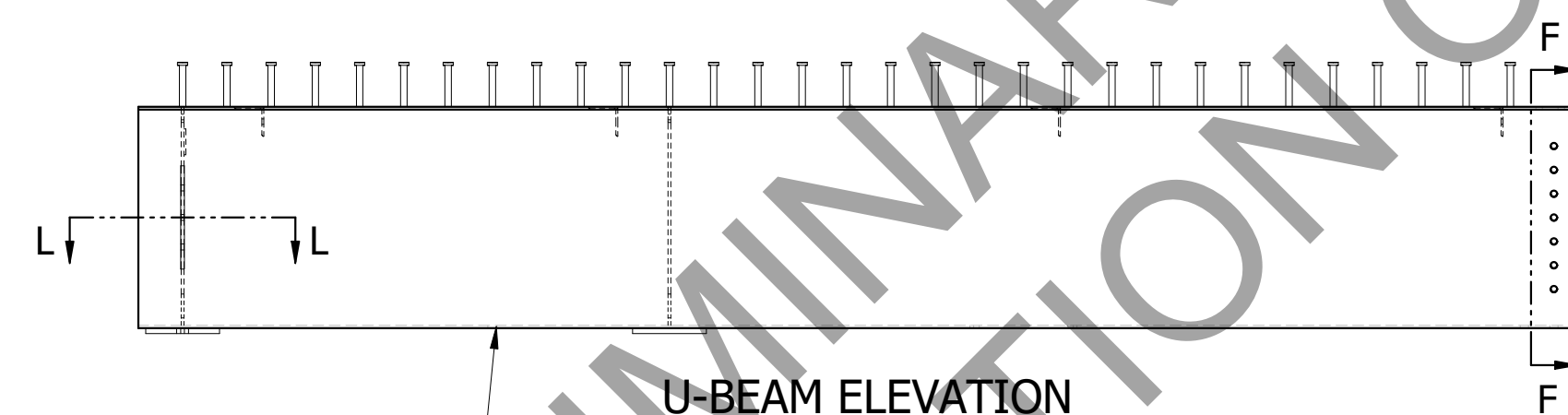
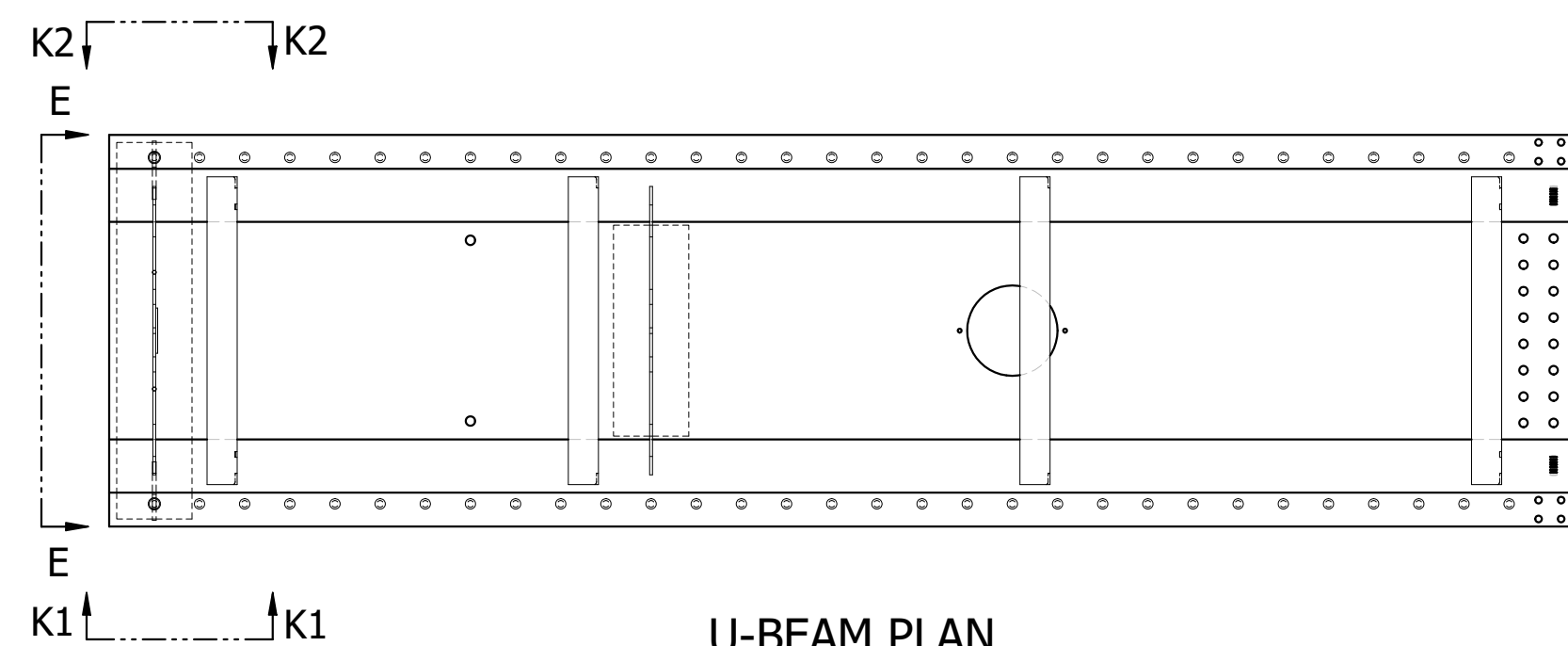
JOB IMPERIAL CO., CA.  
DOGWOOD ROAD OVER CENTRAL MAIN CANAL  
BRIDGE NO: 58C-0226 / COUNTY PROJECT 6222

TITLE F1-1 SHEET 1

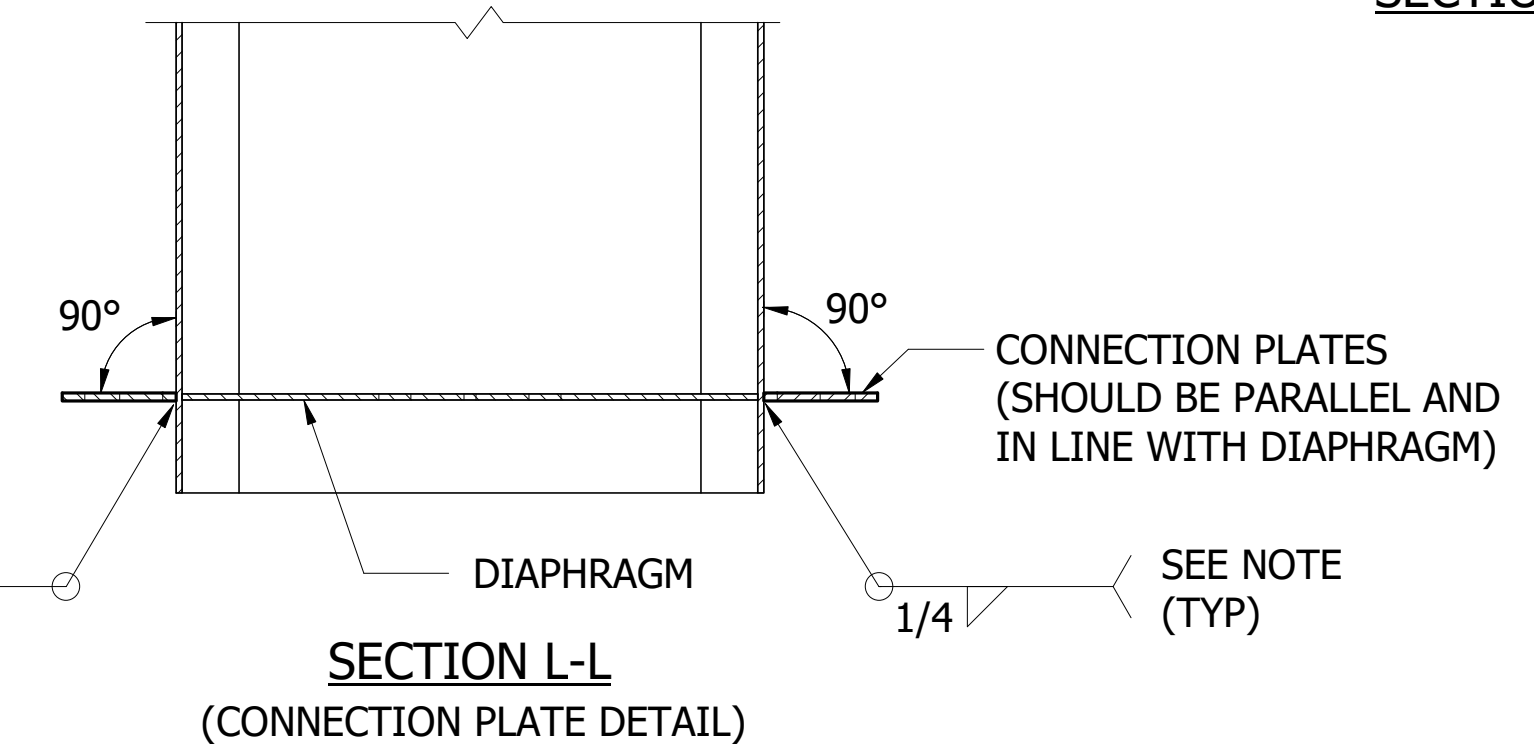
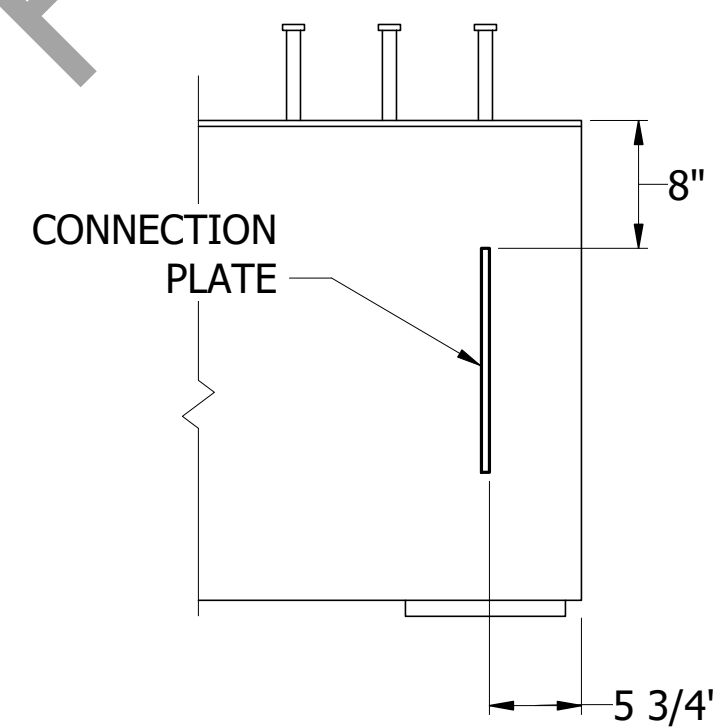
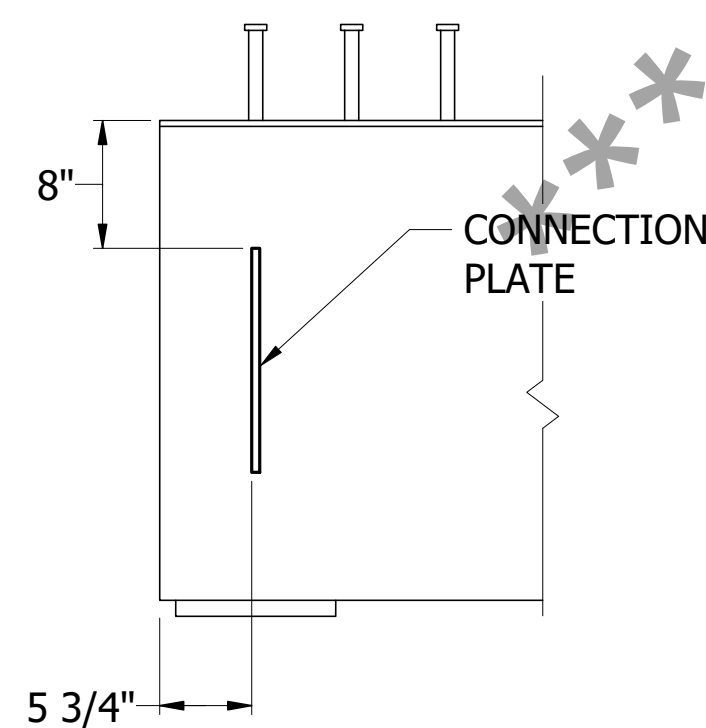
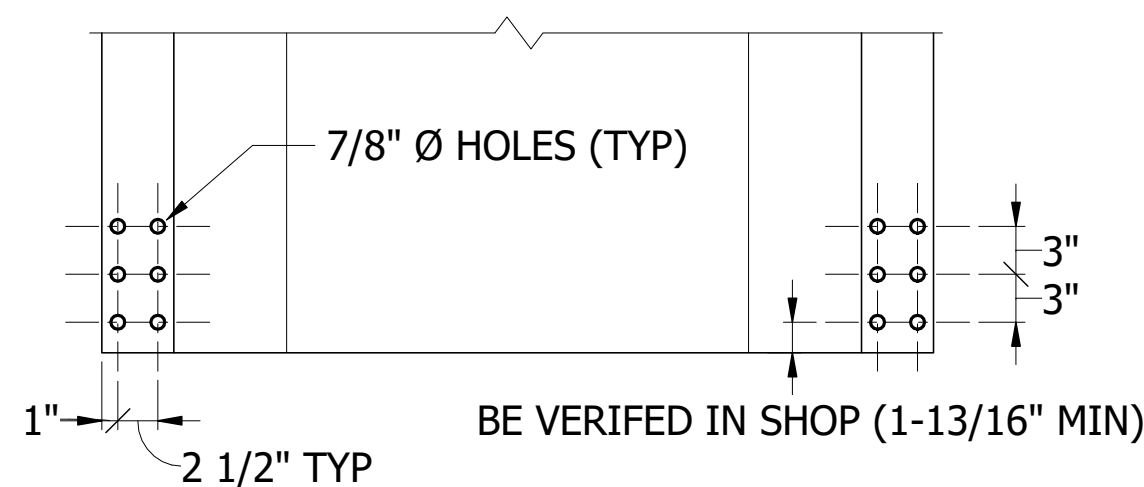
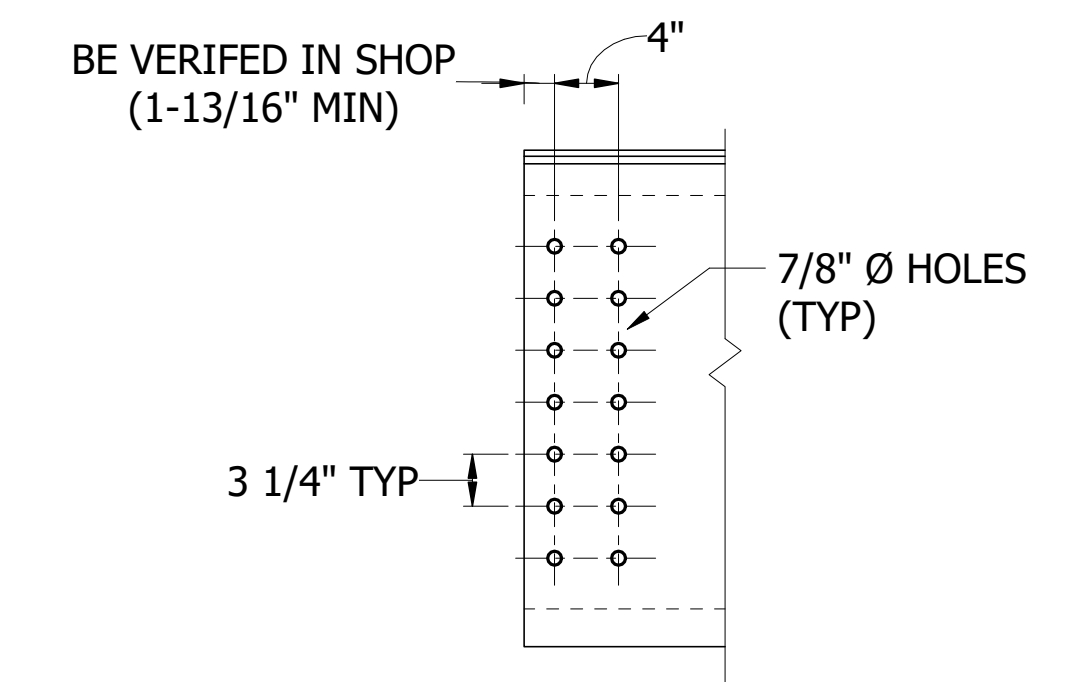
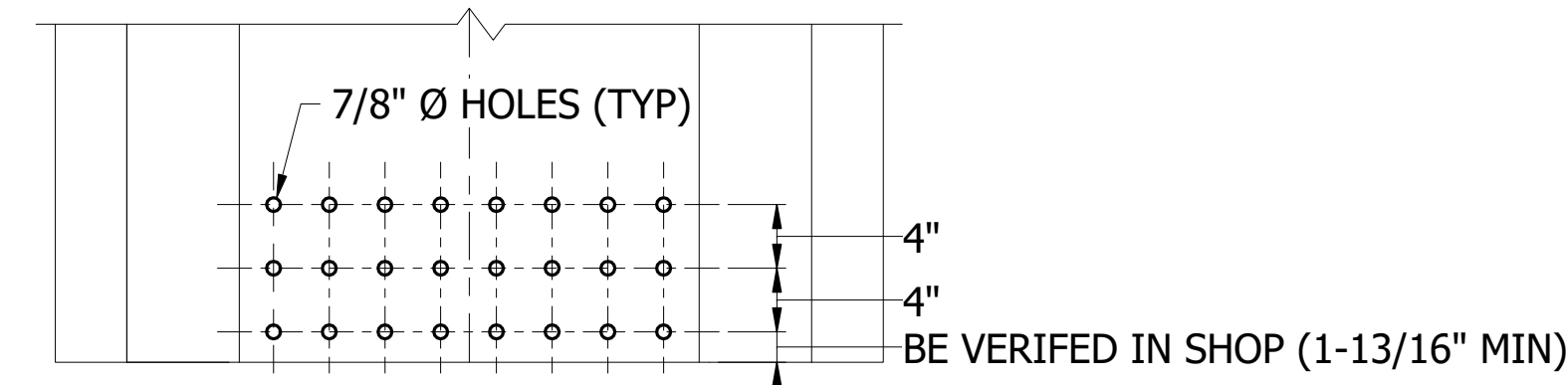
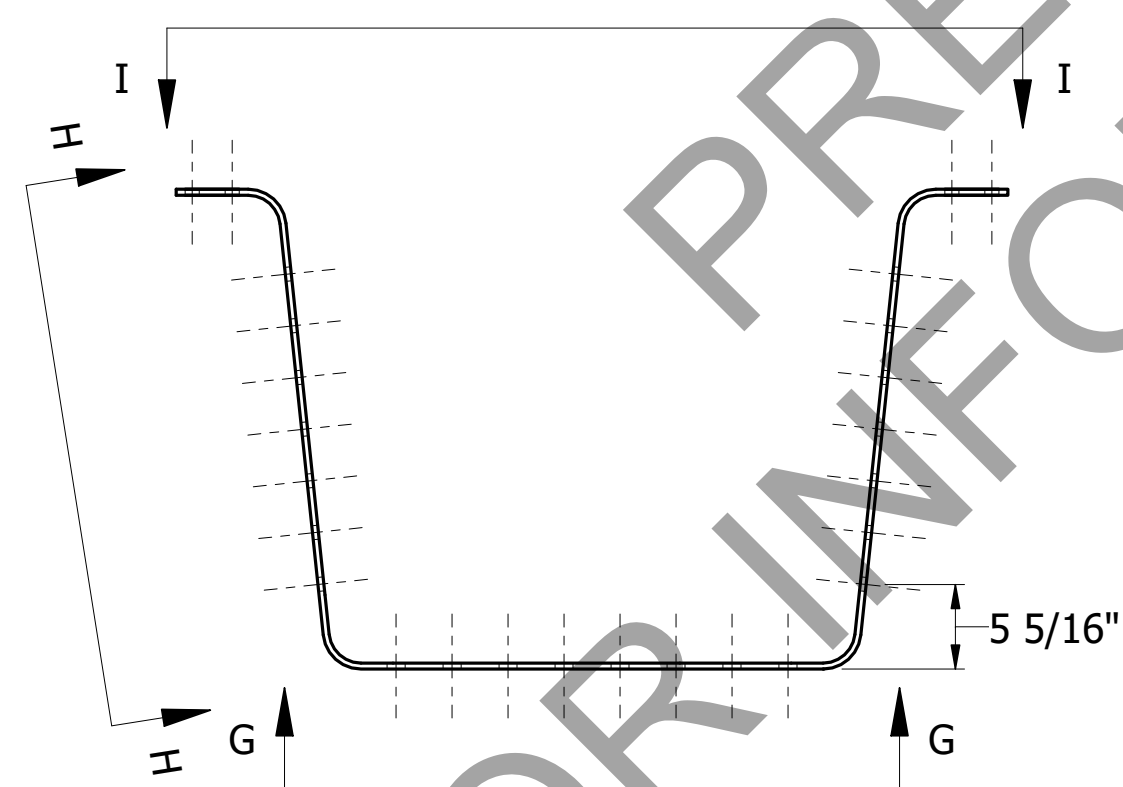
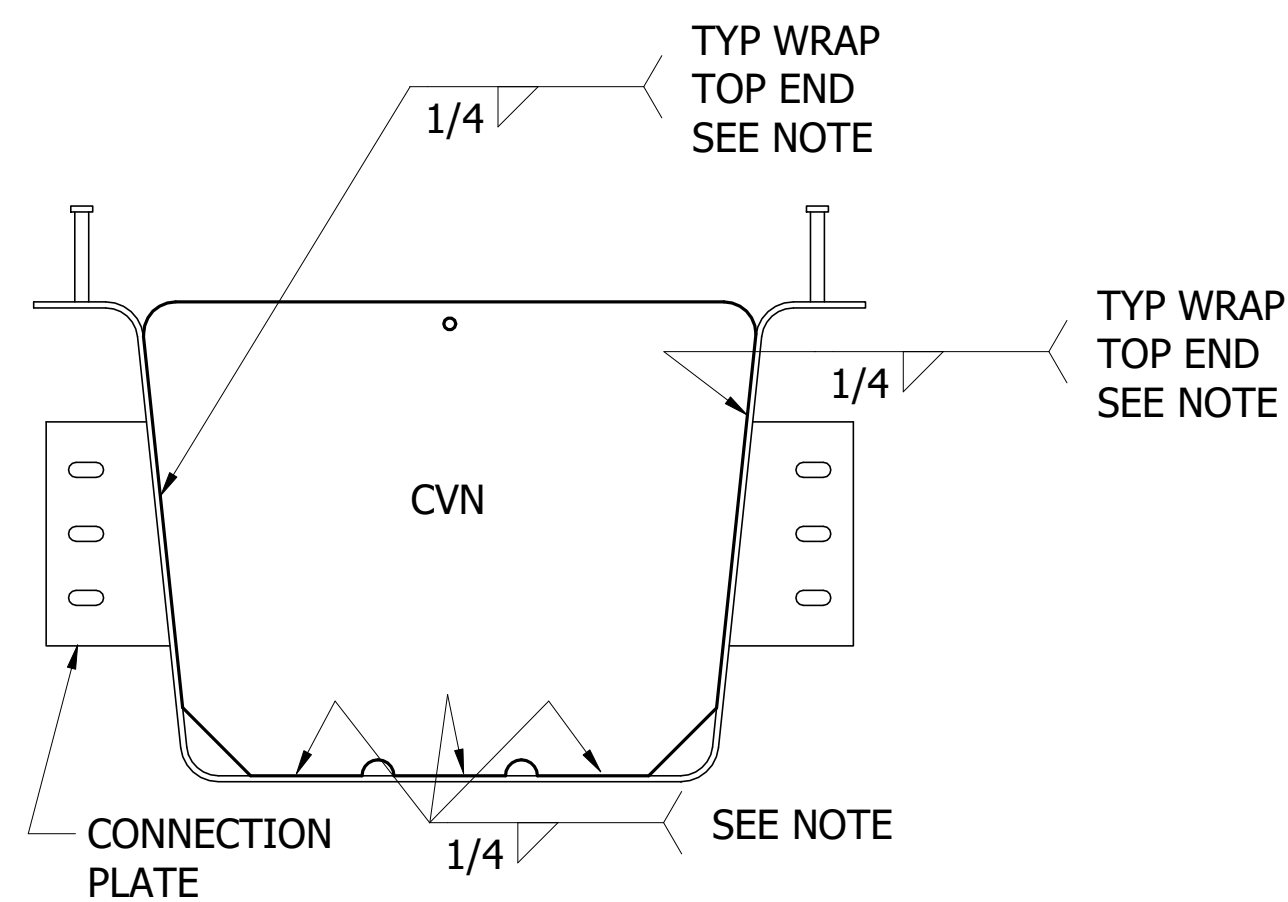
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U-BEAM REQUIRES CHARPY V-NOTCH TESTING. (CVN)



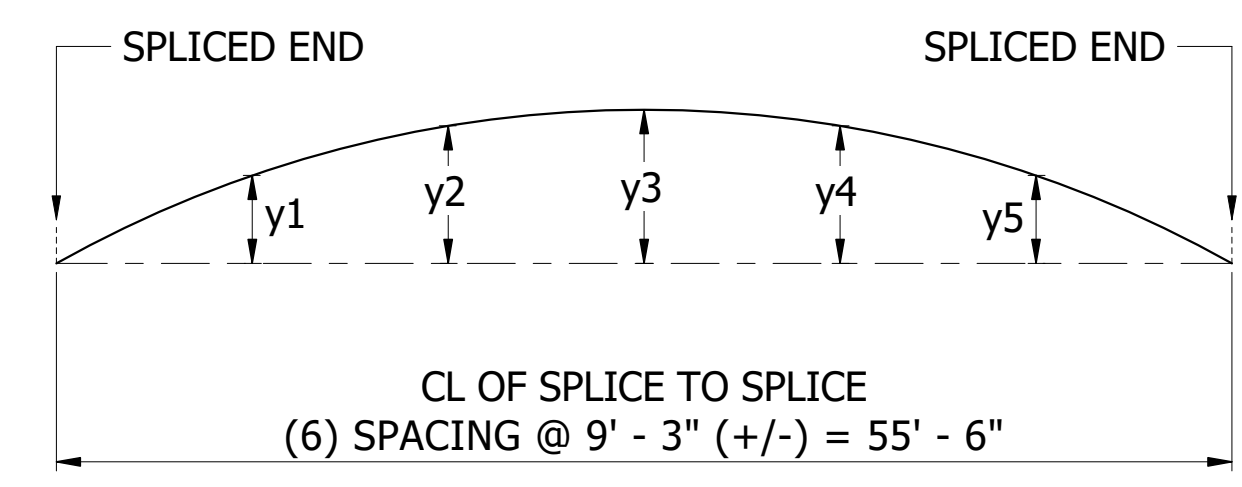
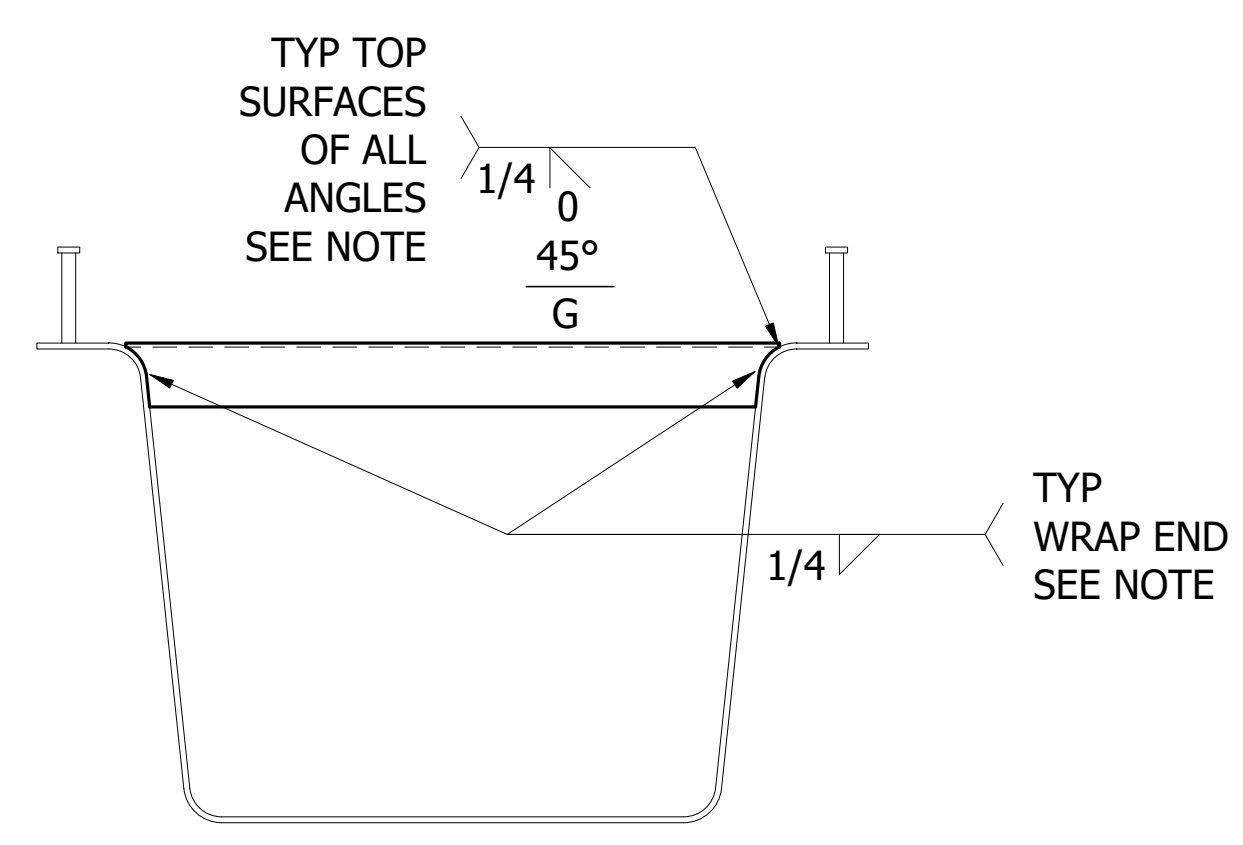
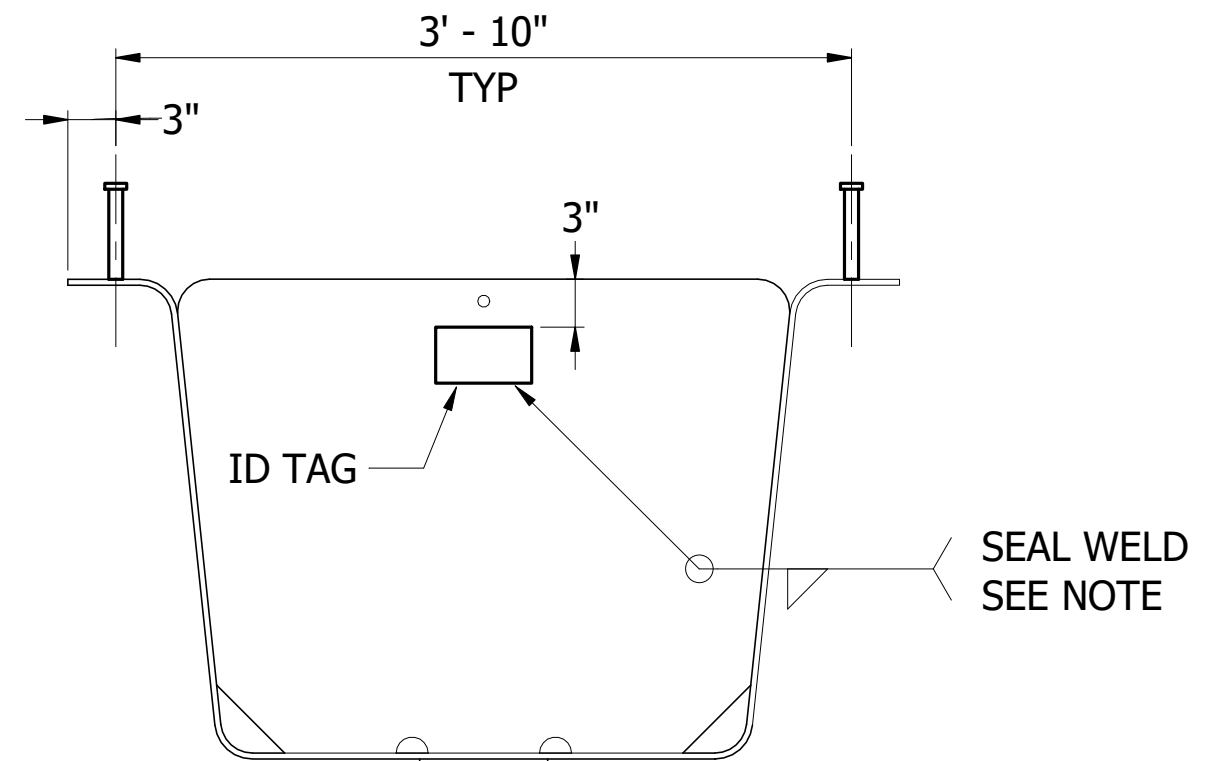
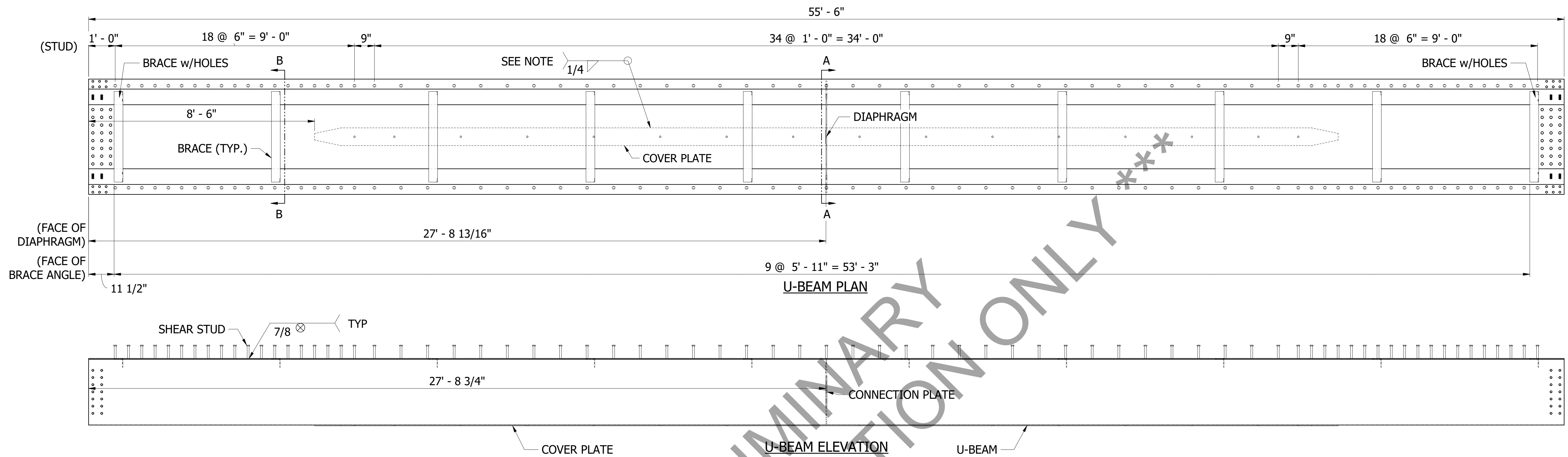
JOB IMPERIAL CO., CA.  
DOGWOOD ROAD OVER CENTRAL MAIN CANAL  
BRIDGE NO: 58C-0226 / COUNTY PROJECT 6222

TITLE F1-1 SHEET 2

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CAMBER ORDINATES	U-BEAM F1-2
y1	1 7/8"
y2	2 15/16"
y3	3 5/16"
y4	2 15/16"
y5	1 7/8"

**WELD NOTE:**  
- SEE WELDING SECTION ON COVER SHEET FOR WELDING SPECIFICATIONS.

**NOTE:**  
- REFERENCE FRAMING PLAN DRAWING FOR OVERALL GIRDER ASSEMBLY.

LABEL	DESCRIPTION	QTY PER ASSY
U-BEAM	U30 x 55' - 6" GIRDER	1
BRACE	L4x4x1/4 x 3'-4 7/8"	8
BRACE w/HOLES	L4x4x1/4 x 3'-4 7/8" w/(2) 3/4"Ø HOLES	2
CONNEX PLATE	PL 1/2" x (6 1/4" / 7 3/4") x 1'-2"	2
COVER PLATE	PL 3/8" x 8" x 38' - 6"	1
DIAPHRAGM	PL 3/8" x 2'-5 5/8" x 3'-2 1/4"	1
SHEAR STUD	7/8"Ø x 6" SHEAR STUD	146
TAG	ID TAG	1

JOB IMPERIAL CO., CA.  
DOGWOOD ROAD OVER CENTRAL MAIN CANAL  
BRIDGE NO: 58C-0226 / COUNTY PROJECT 6222

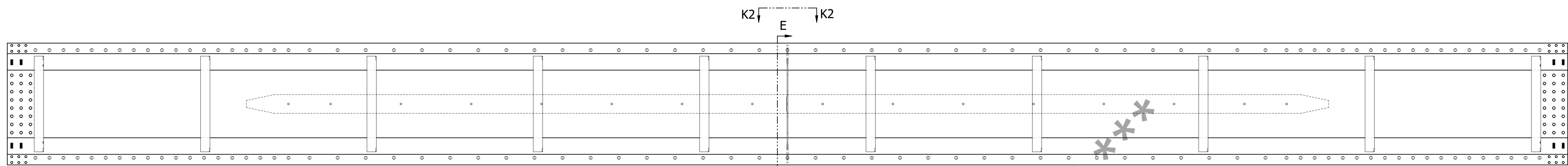
TITLE F1-2 SHEET 1

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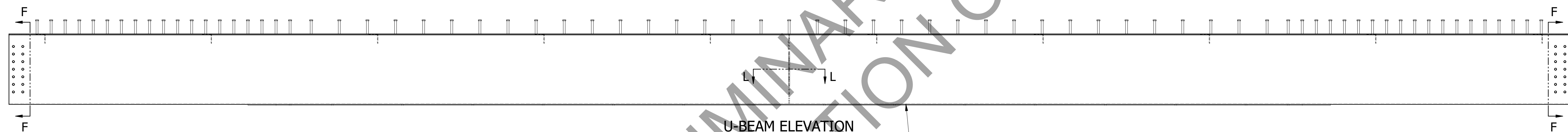


ORDER NUMBER: 529039-P1  
PAGE NUMBER: 35 OF 53  
DRAWING NUMBER: 529039P1  
REV

\*\*\* PRELIMINARY FOR INFORMATION ONLY \*\*\*

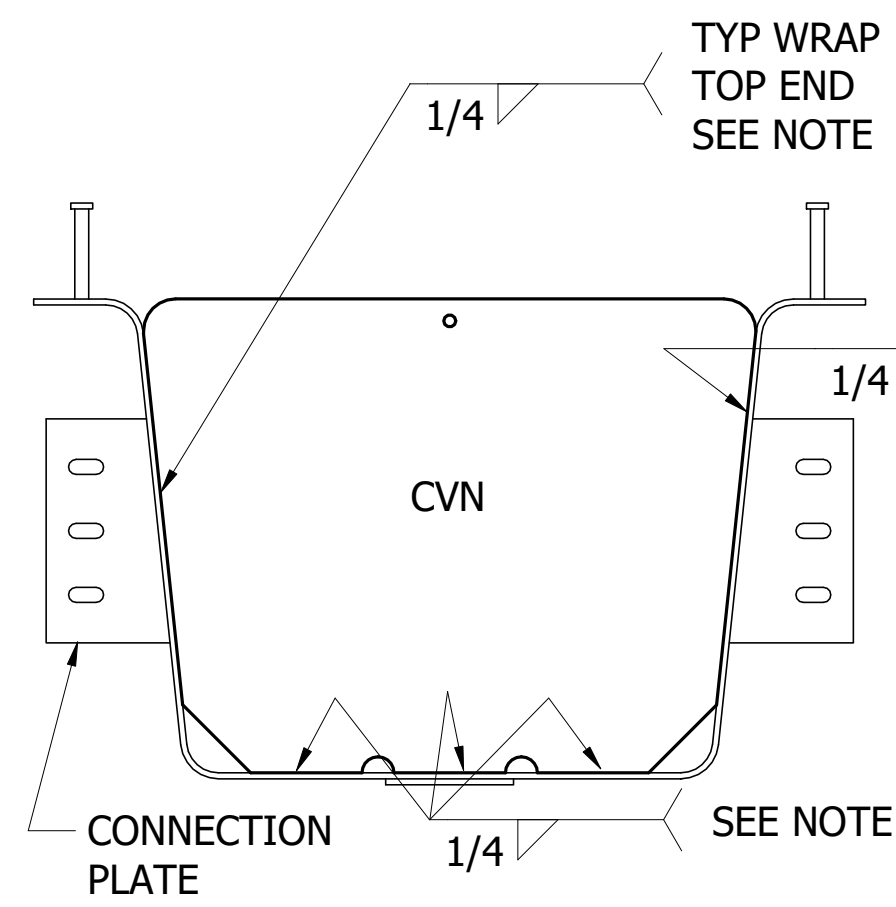


U-BEAM PLAN



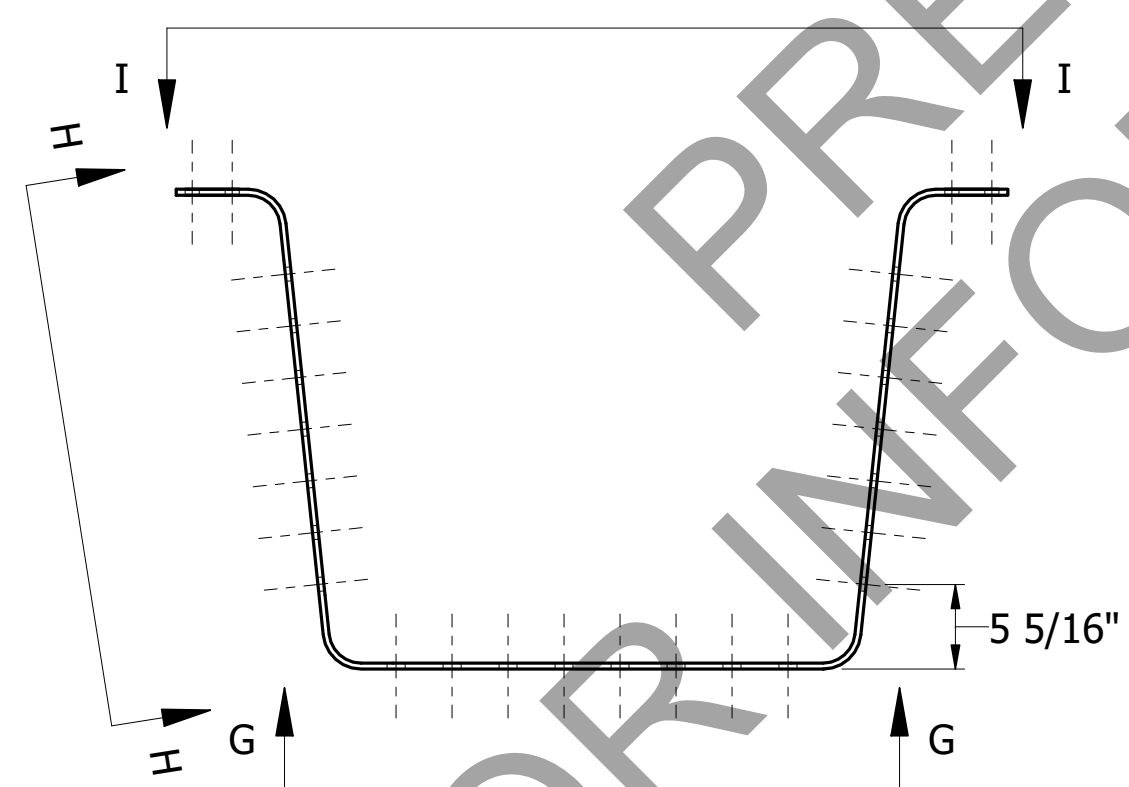
U-BEAM ELEVATION

U-BEAM REQUIRES CHARPY V-NOTCH TESTING. (CVN)

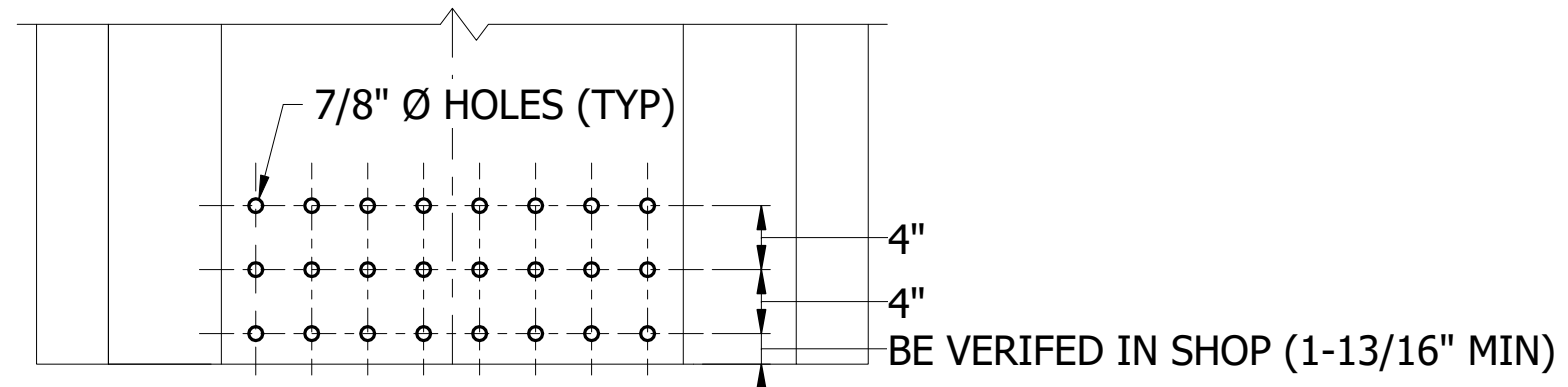


SECTION E-E

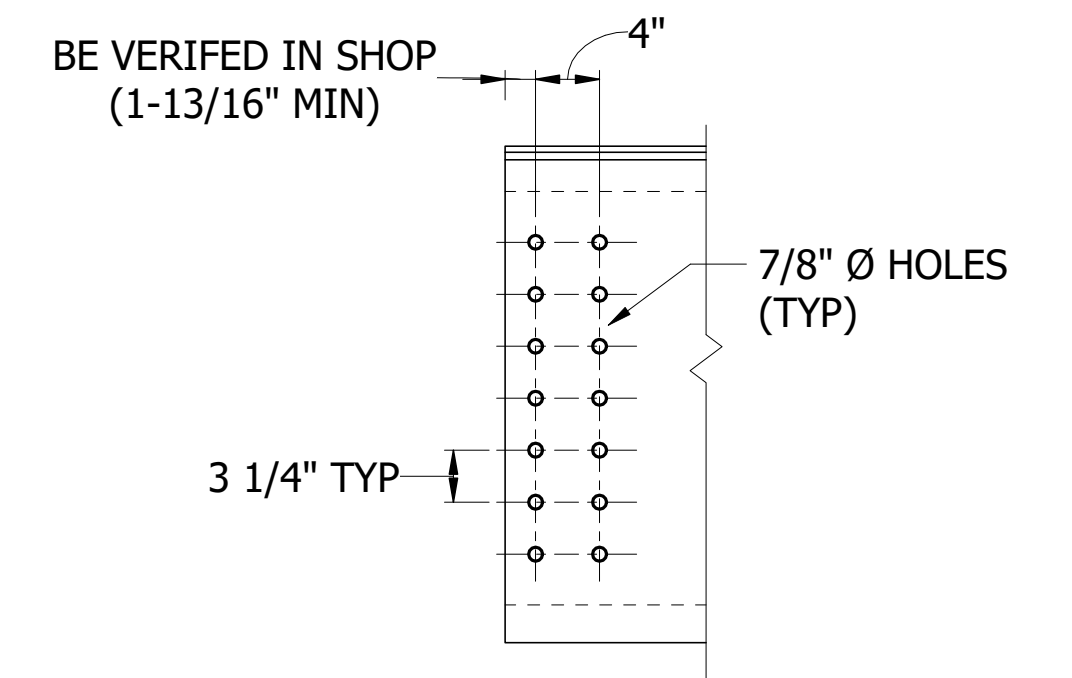
WELD DIAPHRAGM ON OUTSIDE ONLY (TYP)  
(LOOKING NORMAL TO DIAPHRAGM  
AND CONNECTION PLATES)



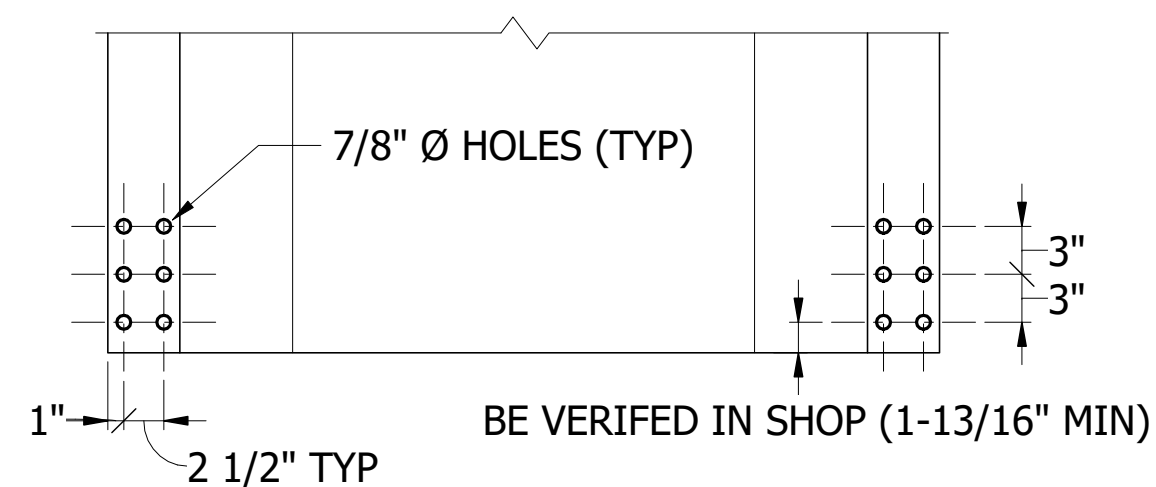
SECTION F-F



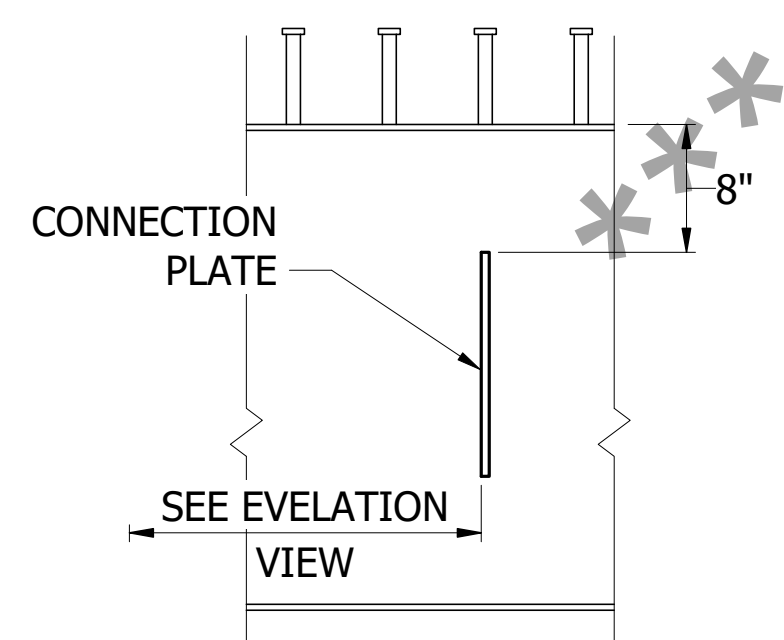
SECTION G-G



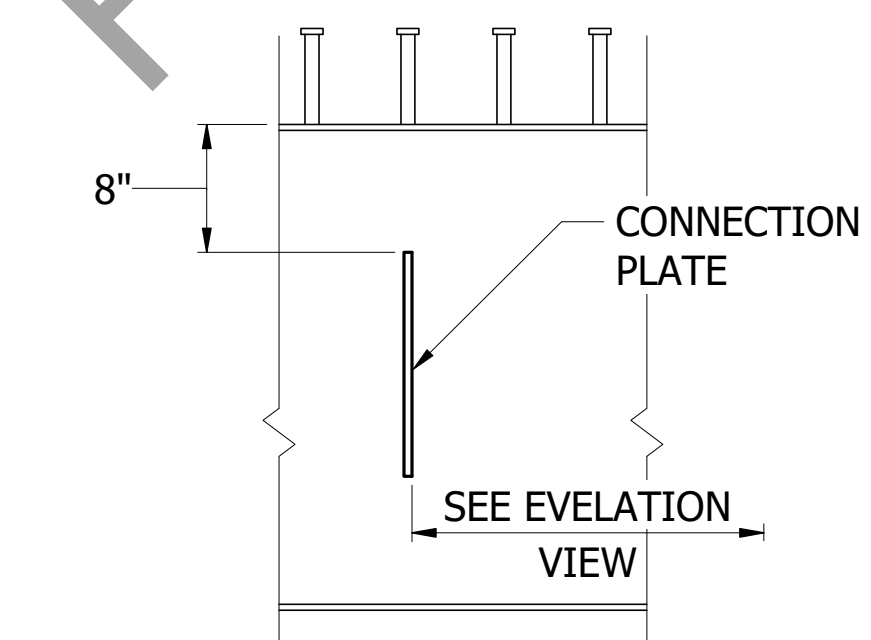
SECTION H-H



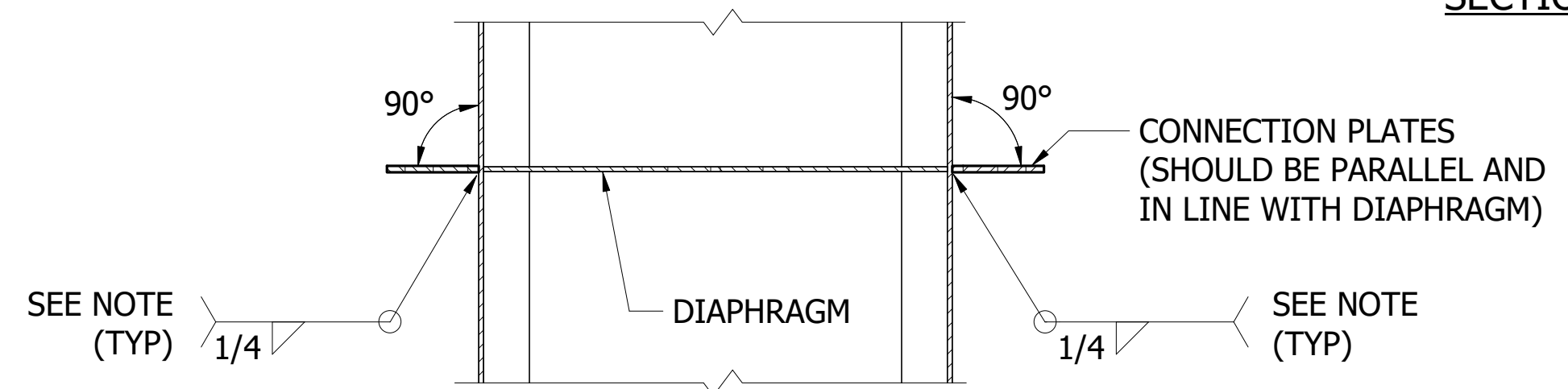
SECTION I-I



SECTION K1-K1



SECTION K2-K2



SECTION L-L  
(CONNECTION PLATE DETAIL)

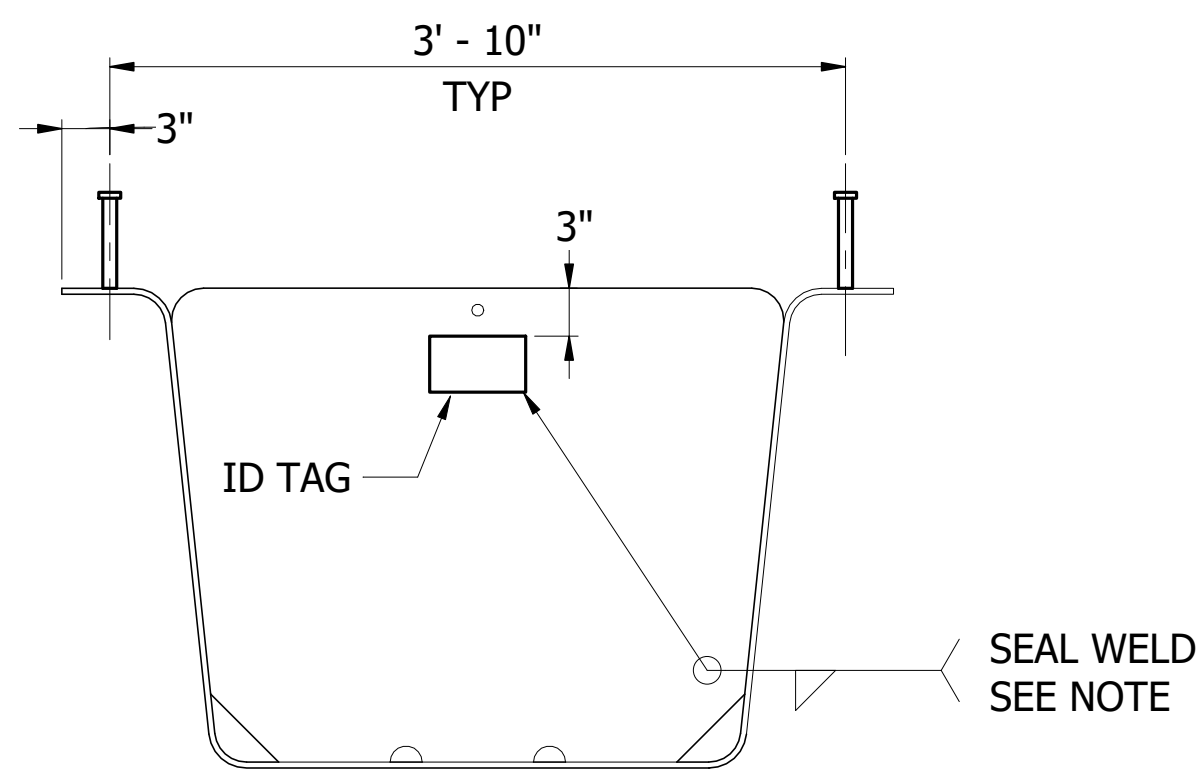
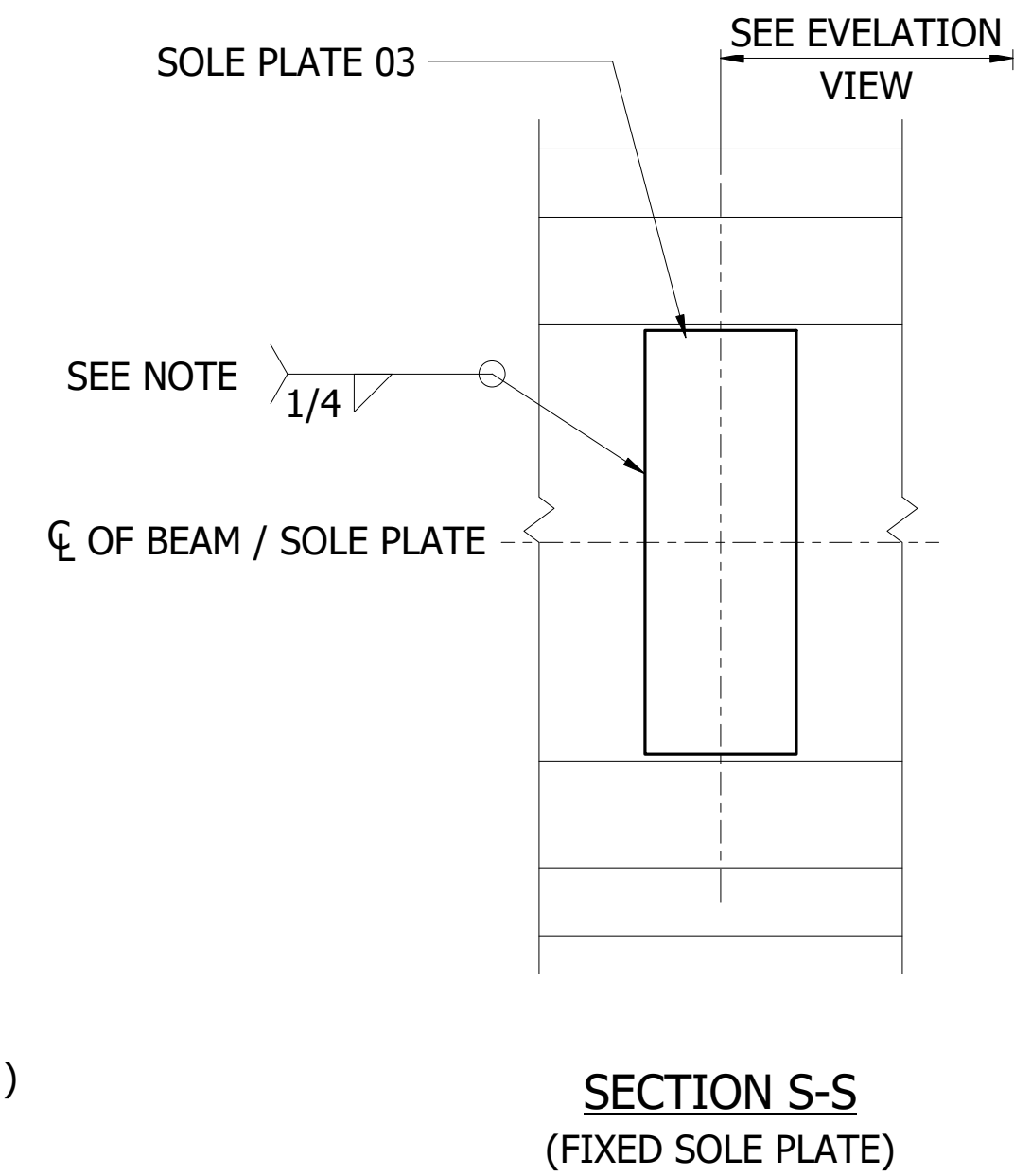
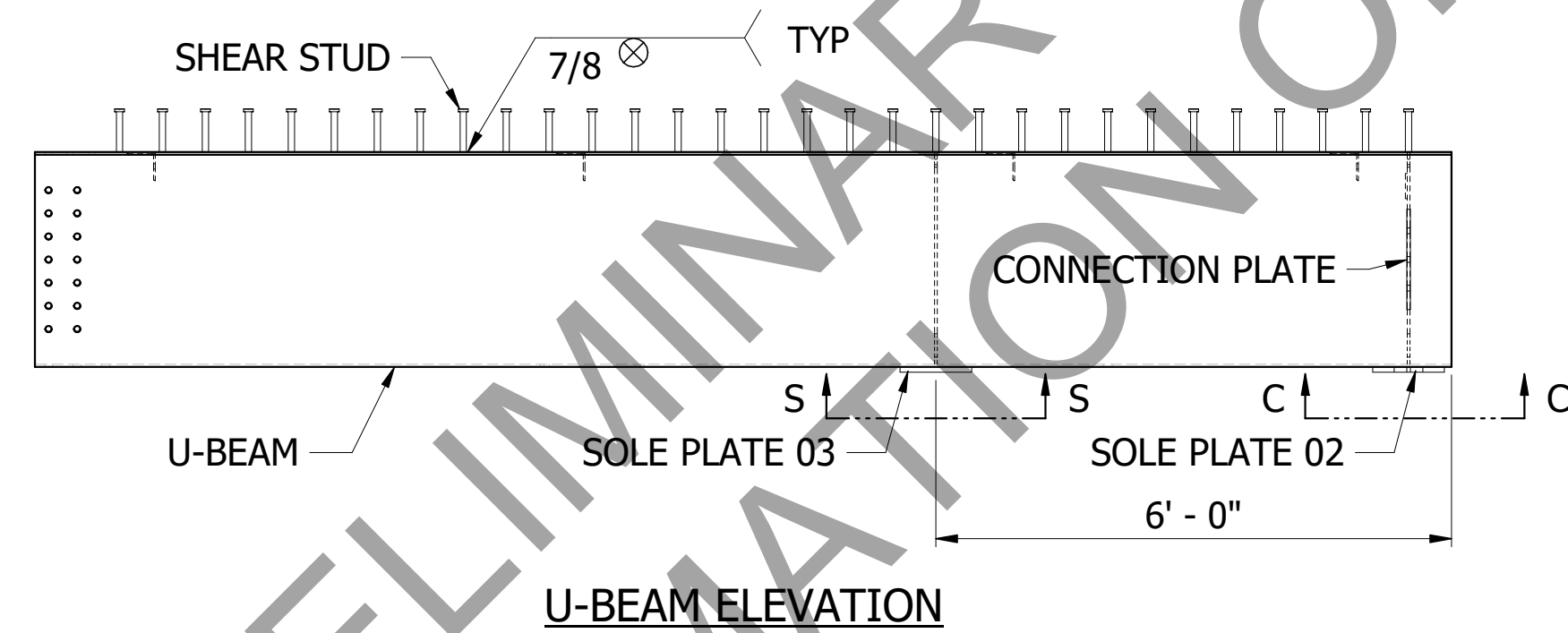
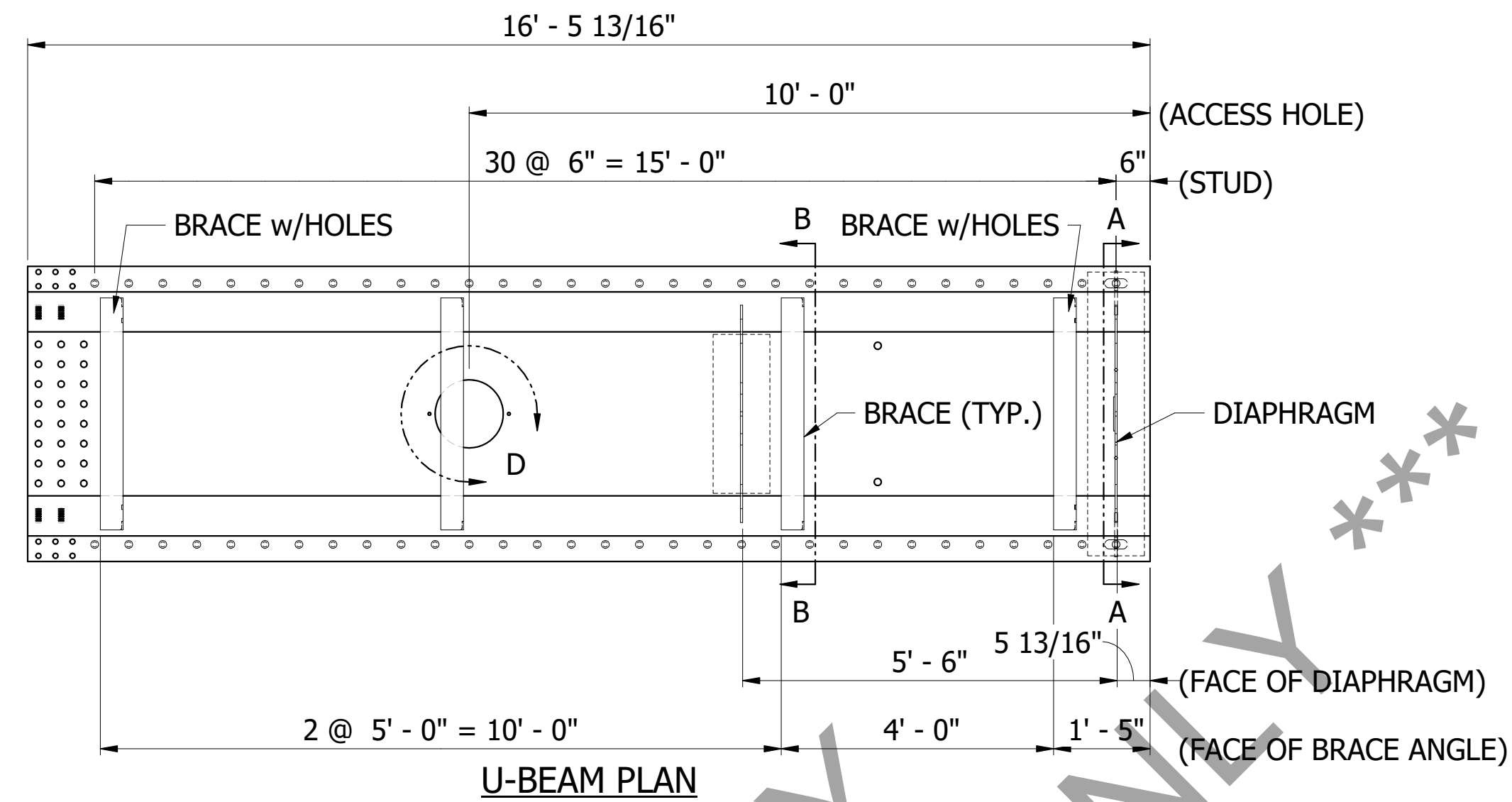
JOB IMPERIAL CO., CA.  
DOGWOOD ROAD OVER CENTRAL MAIN CANAL  
BRIDGE NO: 58C-0226 / COUNTY PROJECT 6222

TITLE F1-2 SHEET 2

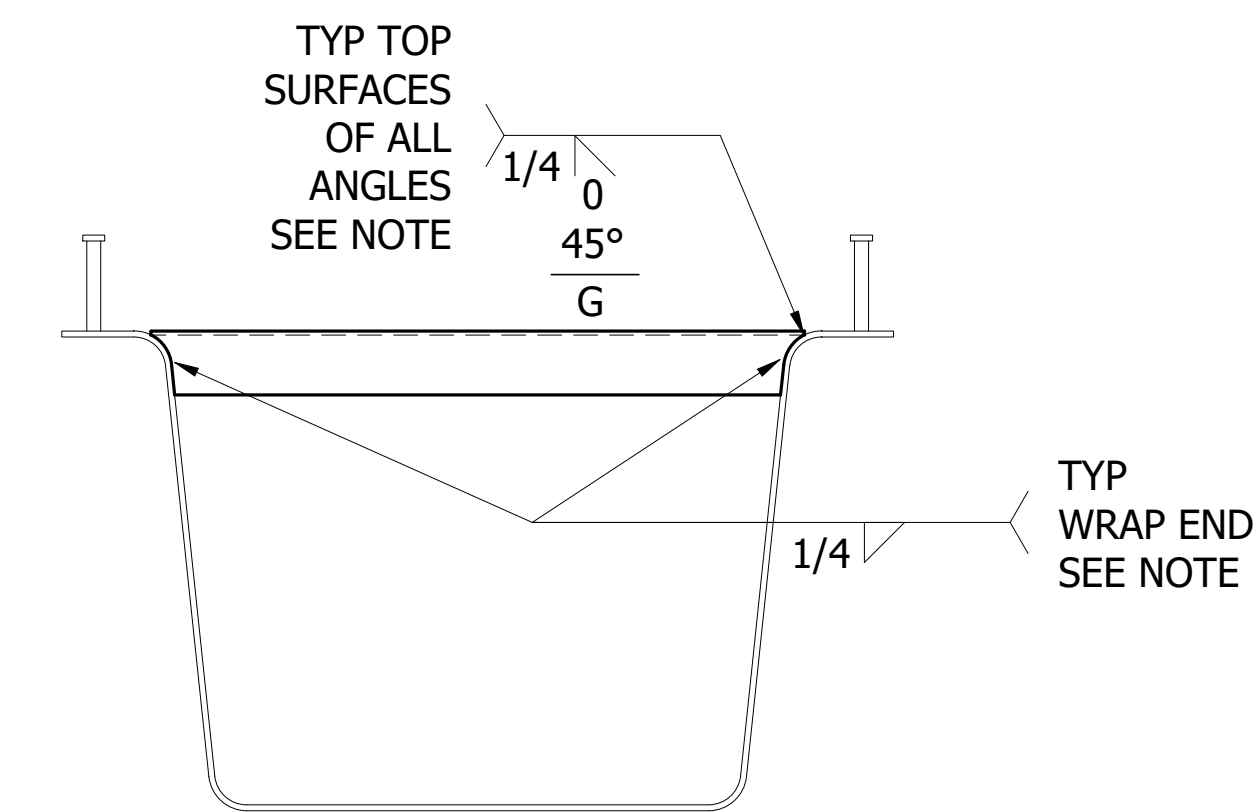
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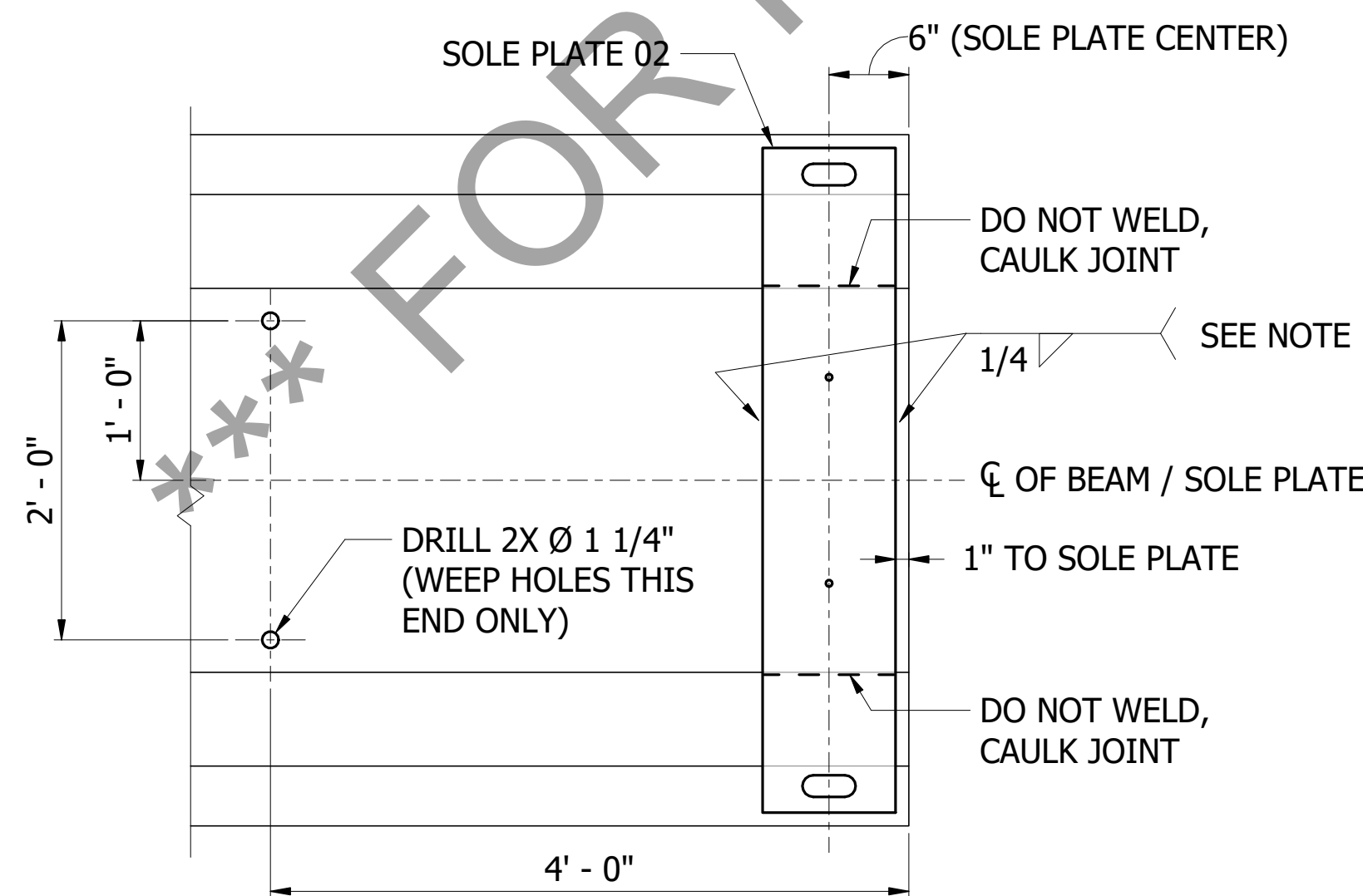
ORDER NUMBER: 529039-P1  
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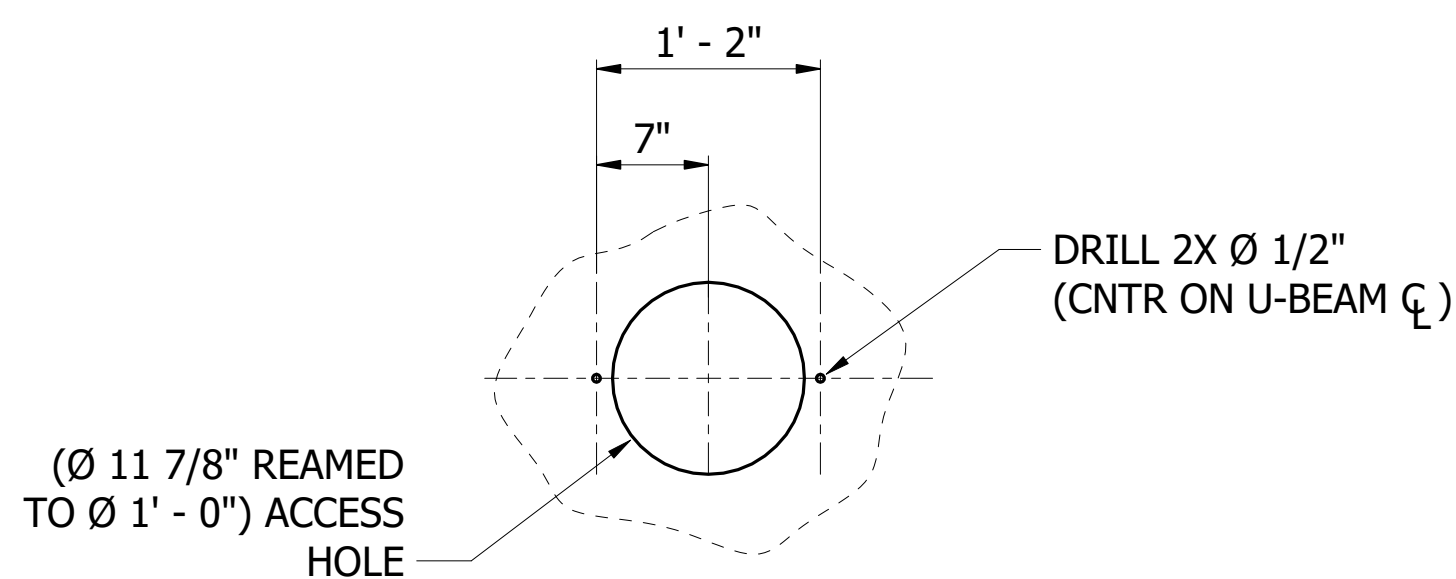
**SECTION A-A**  
(CONNECTION PLATES ARE NOT SHOWN FOR CLARITY.)



**SECTION B-B**



**SECTION C-C**  
(EXP. SOLE PLATE)



**DETAIL D**

WELD NOTE:  
- SEE WELDING SECTION ON COVER SHEET FOR WELDING SPECIFICATIONS.

NOTE:  
- REFERENCE FRAMING PLAN DRAWING FOR OVERALL GIRDER ASSEMBLY.

LABEL	DESCRIPTION	QTY PER ASSY
U-BEAM	U30 x 16' - 5 13/16" GIRDER	1
BRACE	L4x4x1/4 x 3'-4 7/8"	2
BRACE w/HOLES	L4x4x1/4 x 3'-4 7/8" w/(2) 3/4"Ø HOLES	2
CONNEX PLATE	PL 1/2" x (6 1/4" / 7 3/4") x 1'-2"	2
DIAPHRAGM	PL 3/8" x 2'-5 5/8" x 3'-2 1/4"	1
SHEAR STUD	7/8"Ø x 6" SHEAR STUD	62
SOLE PLATE 02	PL 3/4" x 10" x 4'-2" w/(2) 1/2"Ø HOLES & (2) 1 5/8"Ø x 4" SLOTTED HOLES	1
SOLE PLATE 03	PL 3/4" x 10" x 2'-4"	1
TAG	ID TAG	1

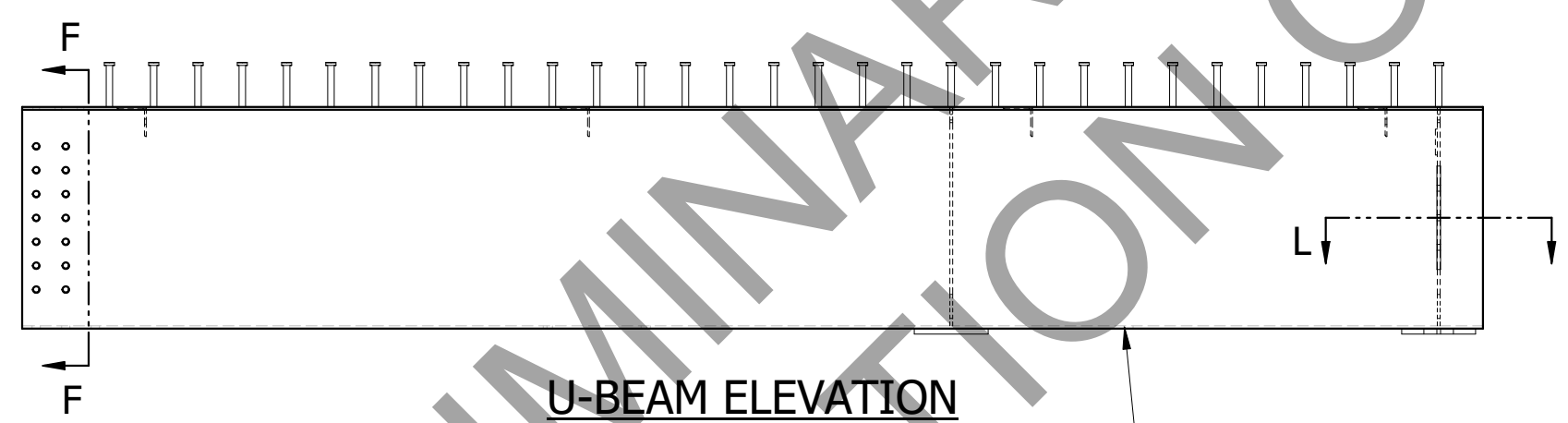
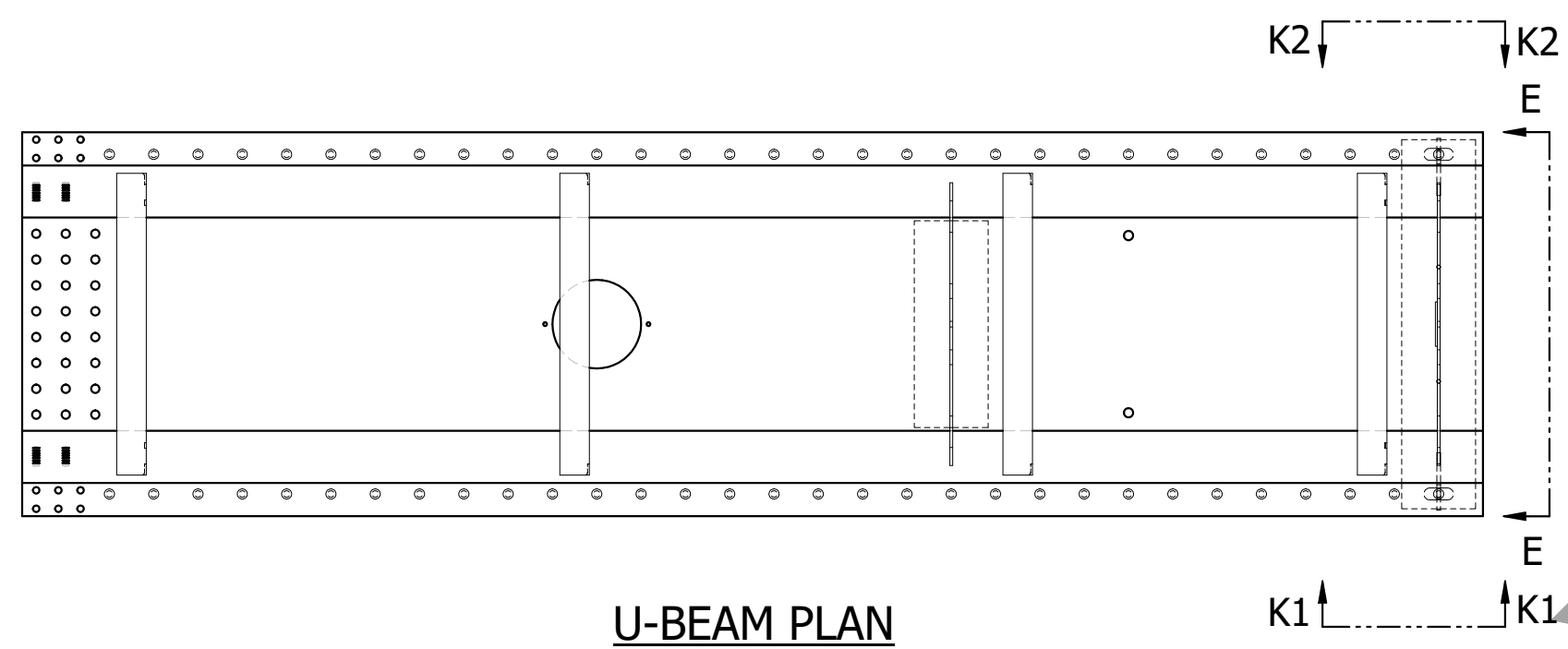
JOB IMPERIAL CO., CA.  
DOGWOOD ROAD OVER CENTRAL MAIN CANAL  
BRIDGE NO: 58C-0226 / COUNTY PROJECT 6222

TITLE F1-3 SHEET 1

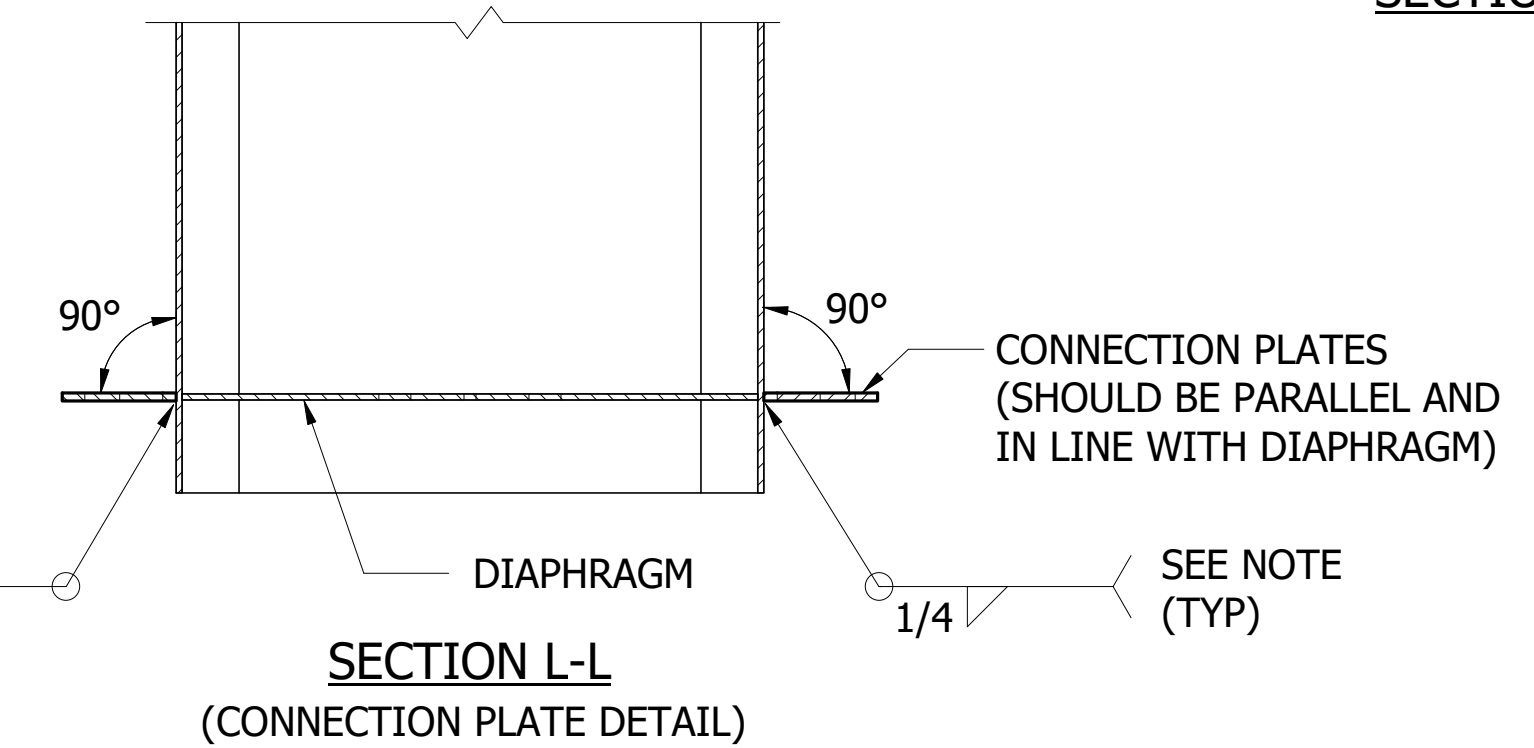
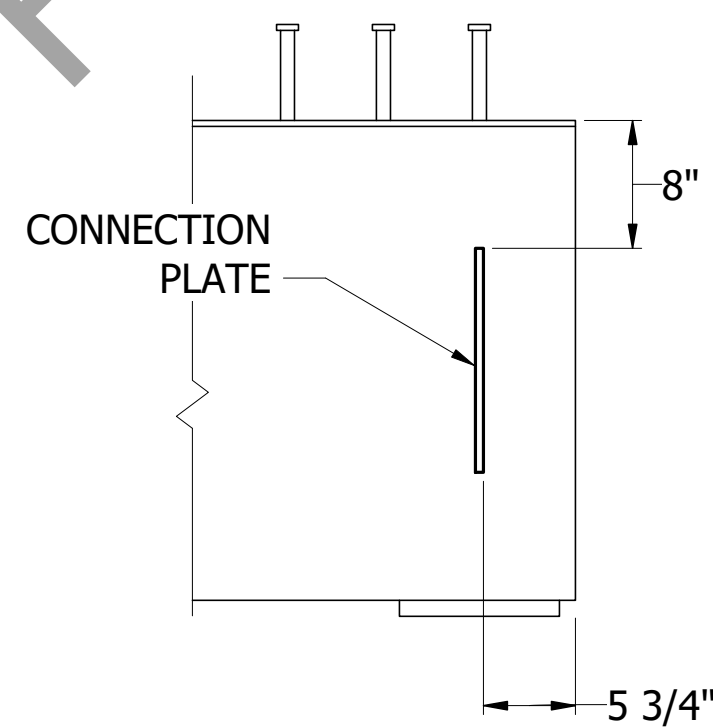
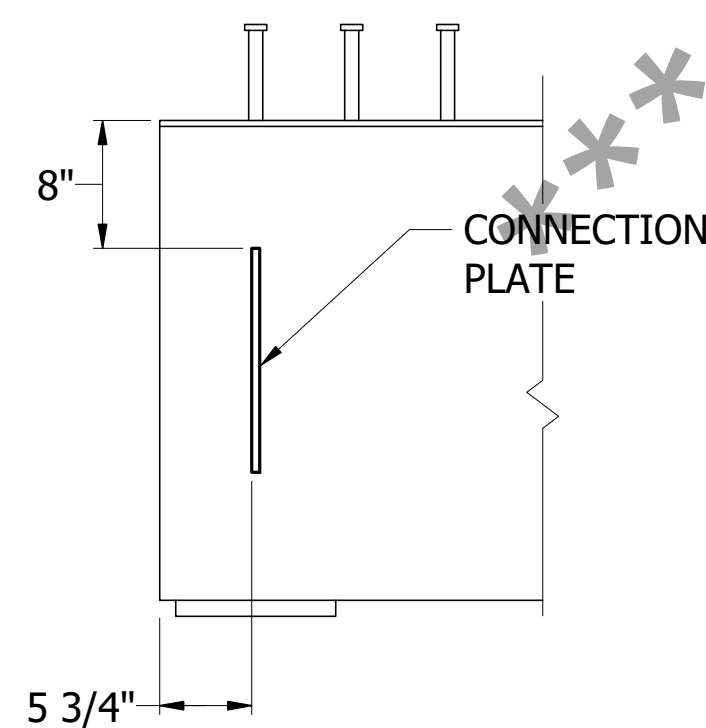
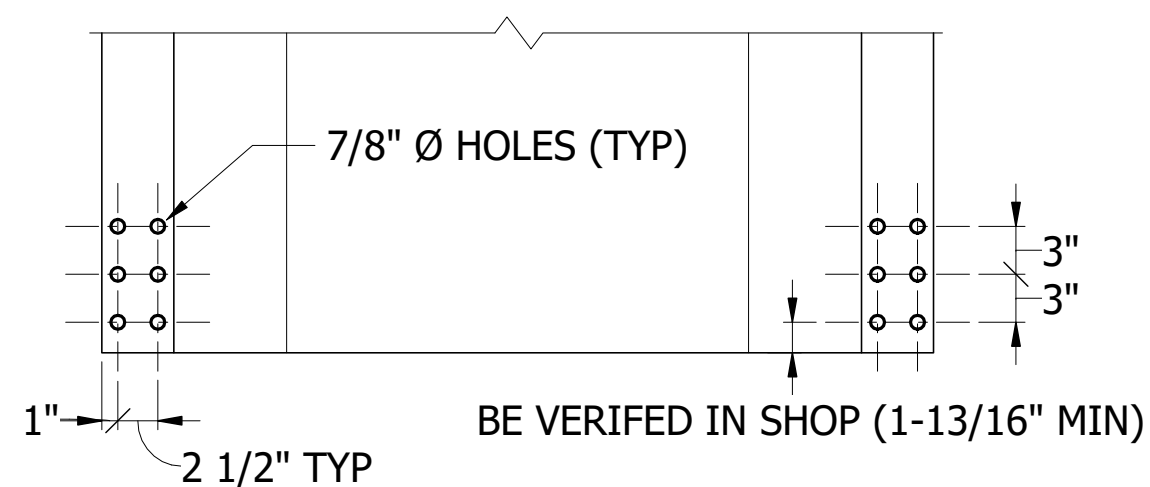
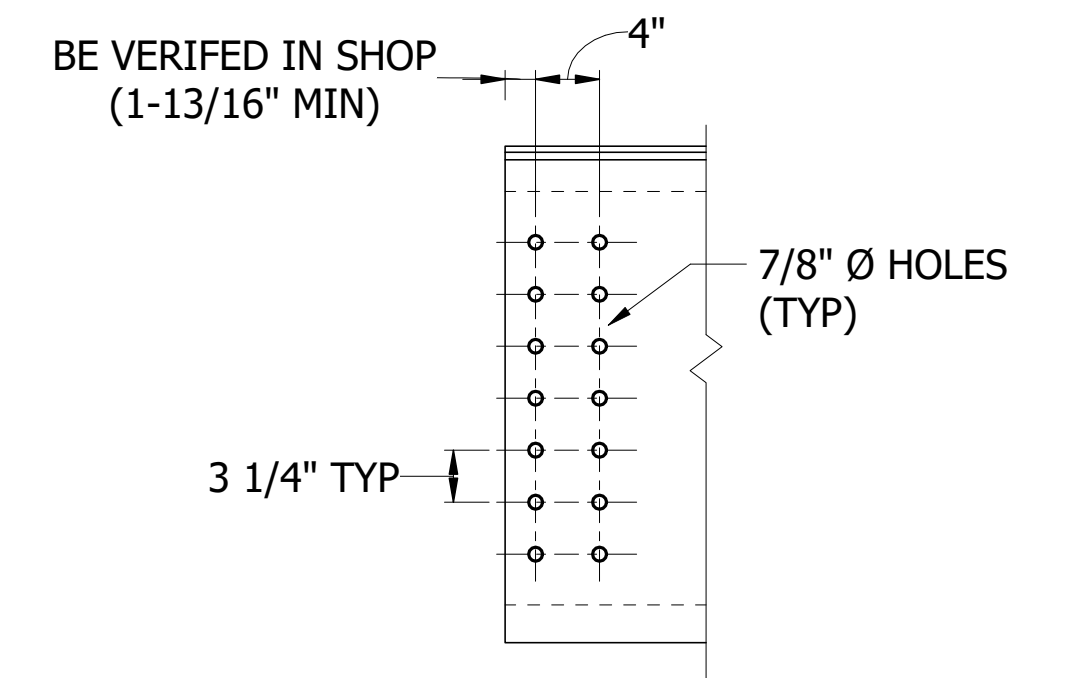
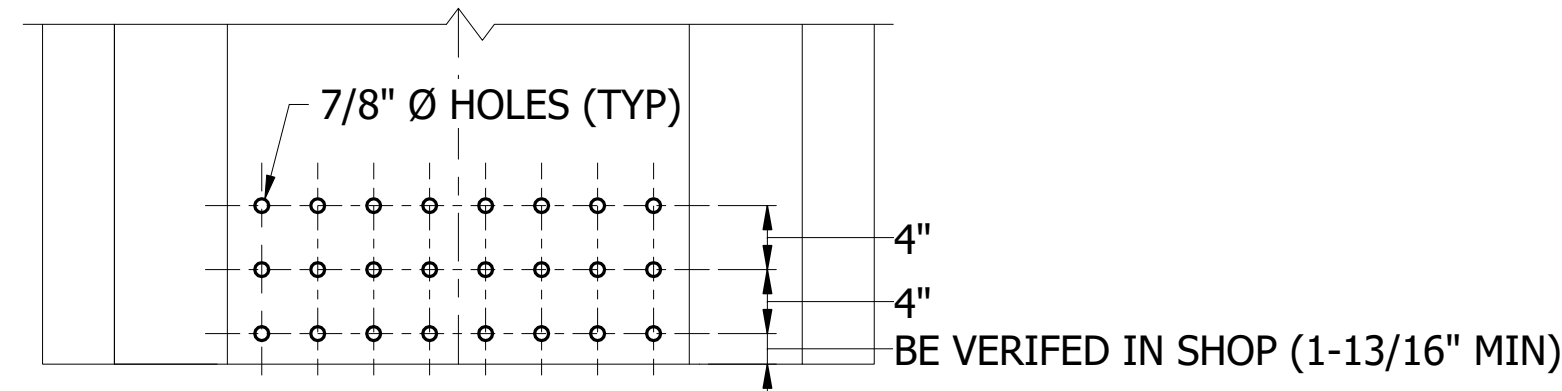
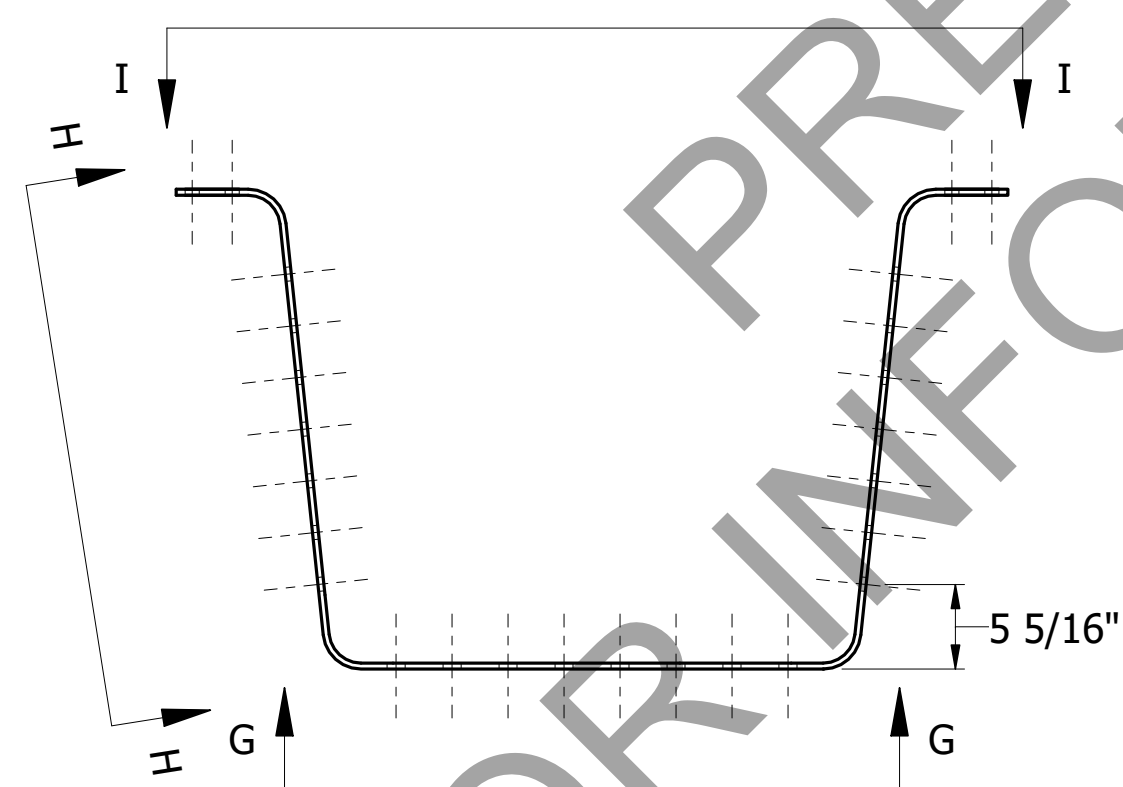
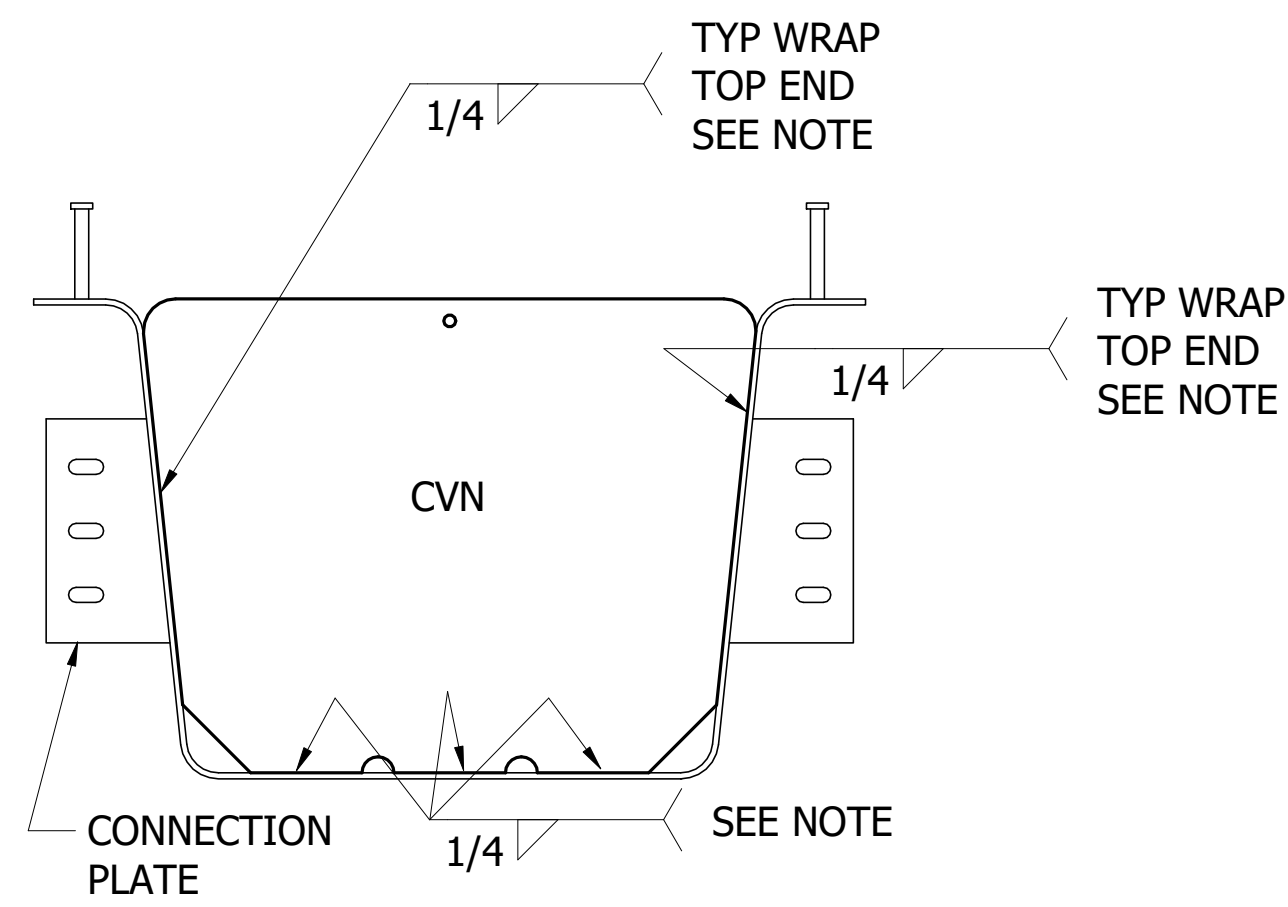
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U-BEAM REQUIRES CHARPY V-NOTCH TESTING. (CVN)



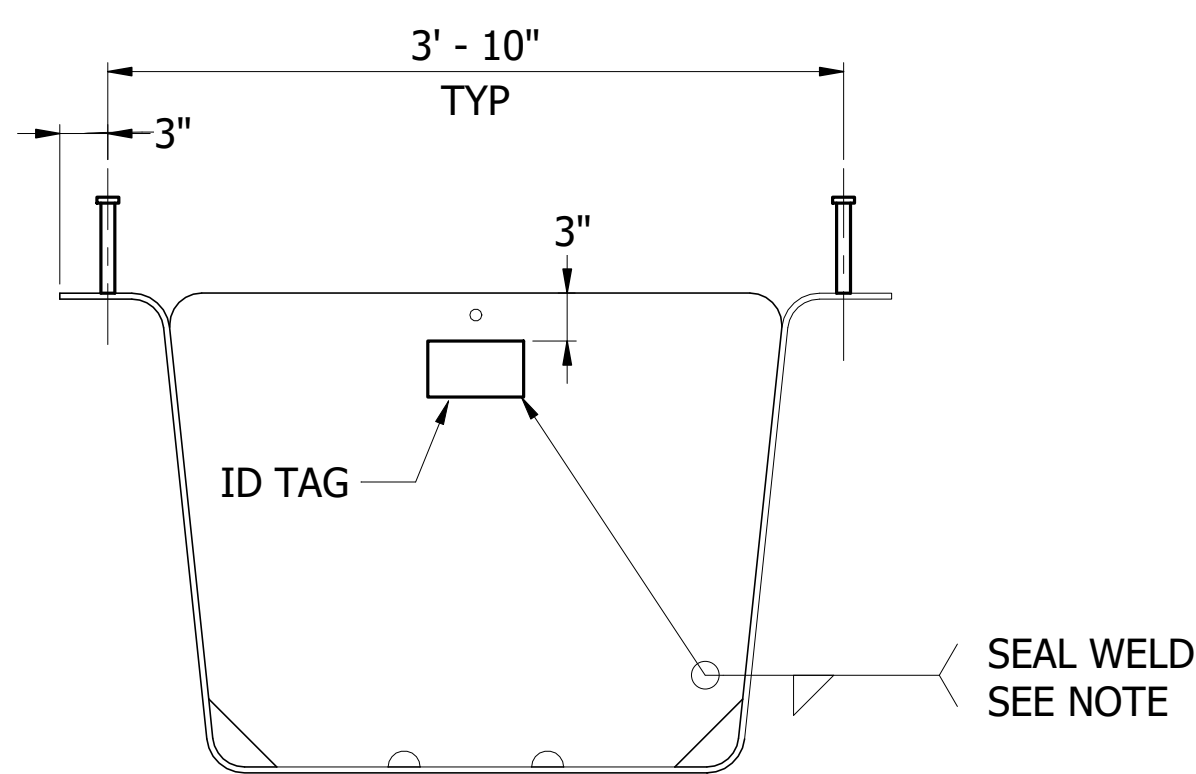
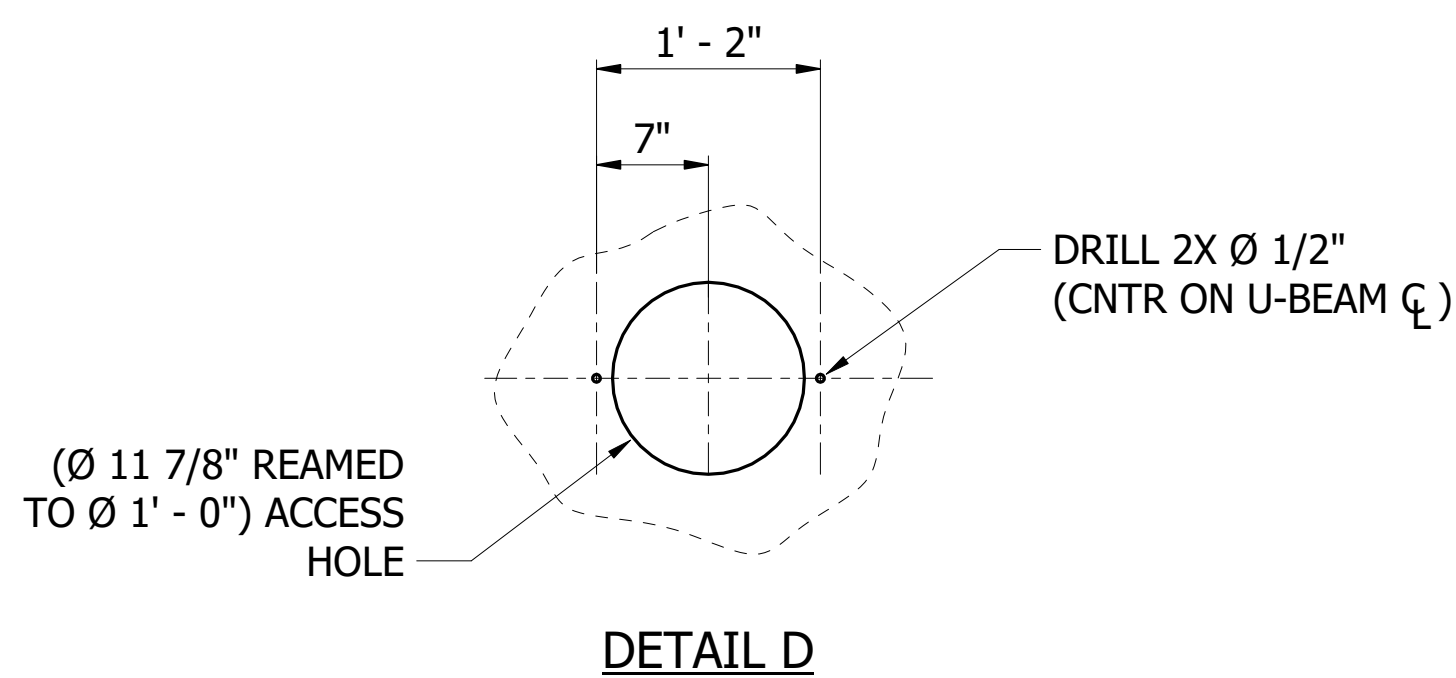
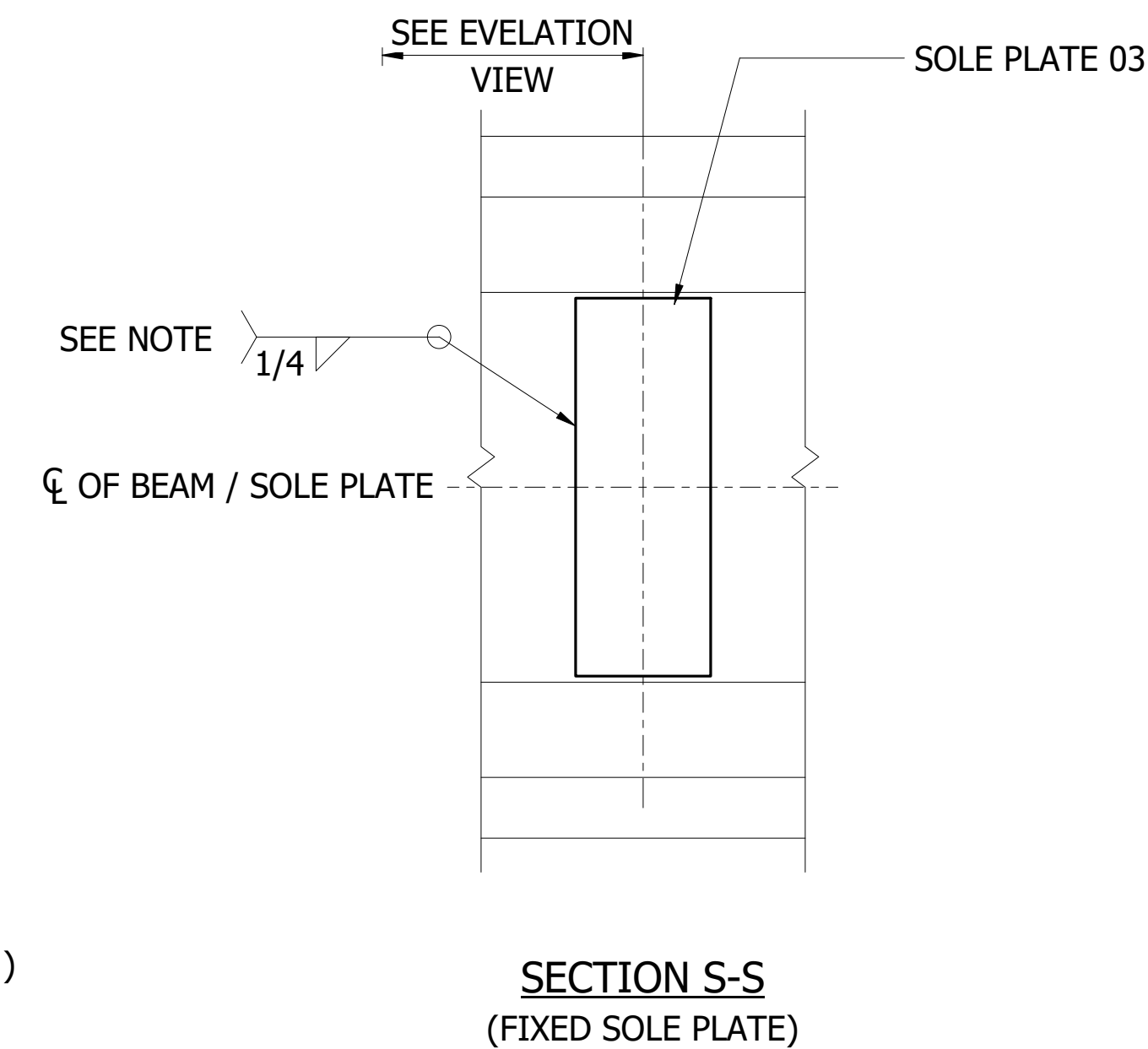
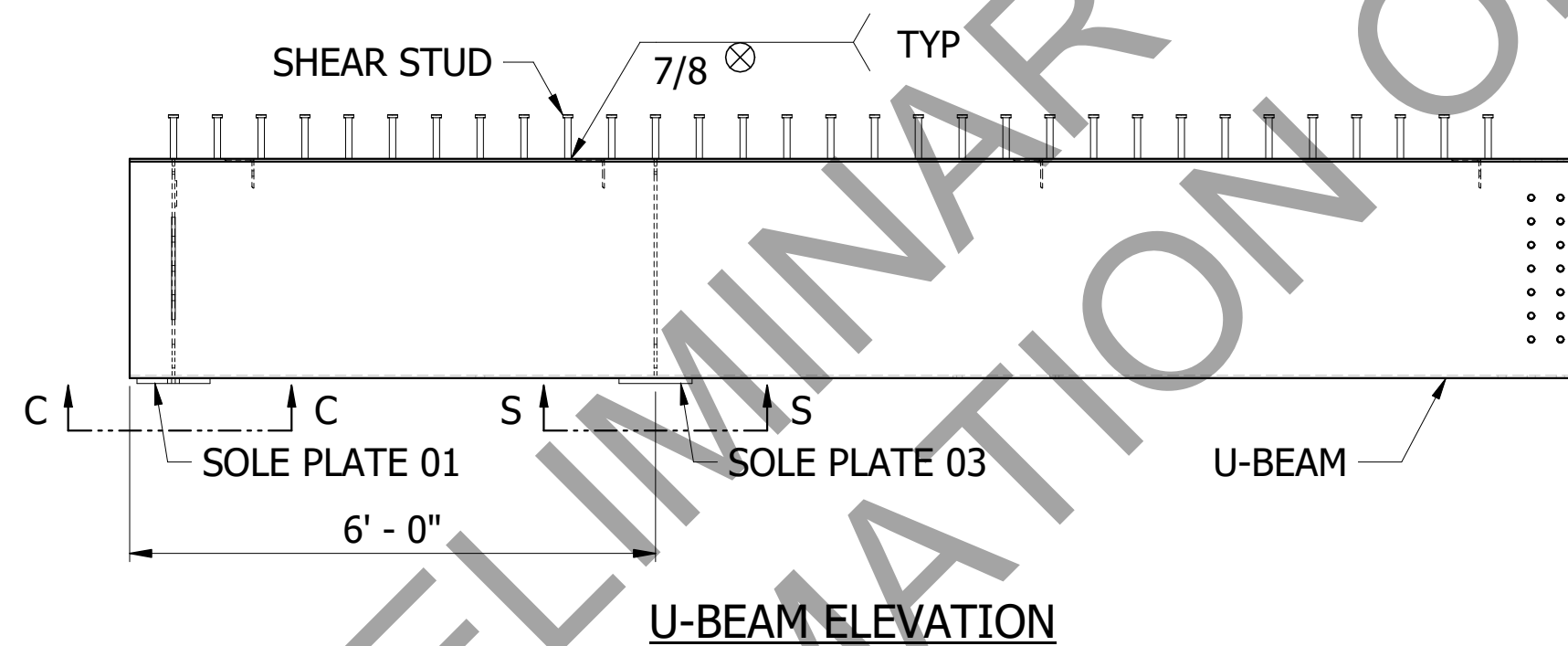
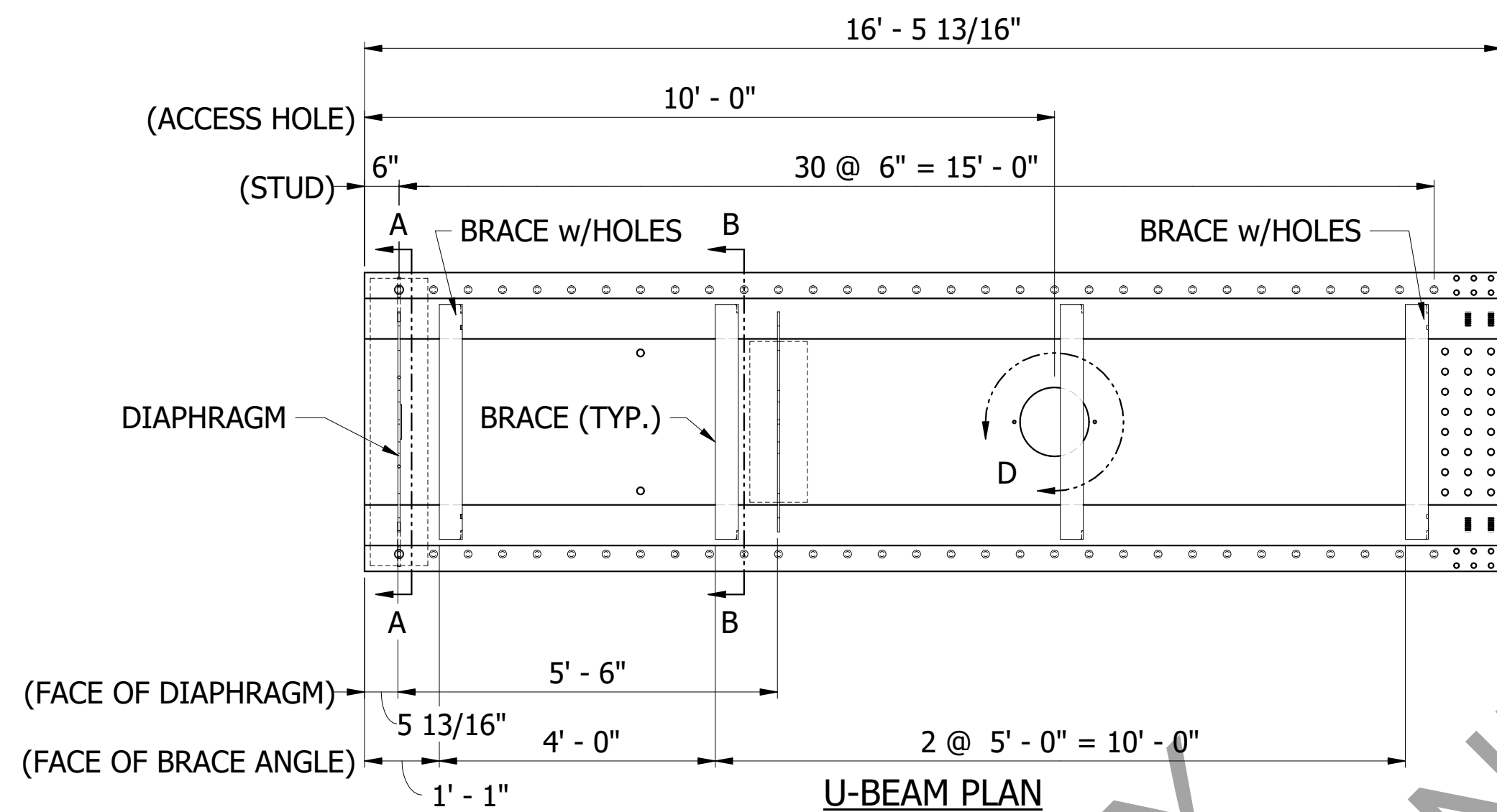
JOB IMPERIAL CO., CA.  
DOGWOOD ROAD OVER CENTRAL MAIN CANAL  
BRIDGE NO: 58C-0226 / COUNTY PROJECT 6222

TITLE F1-3 SHEET 2

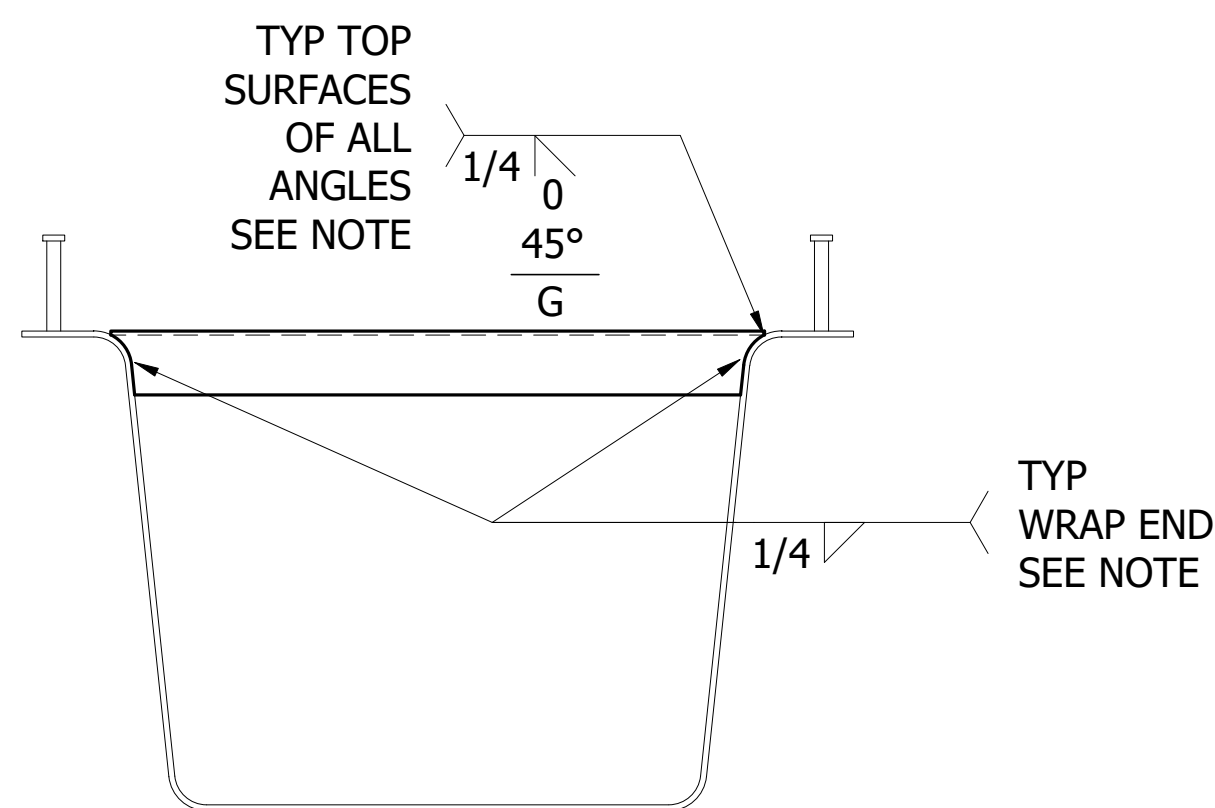
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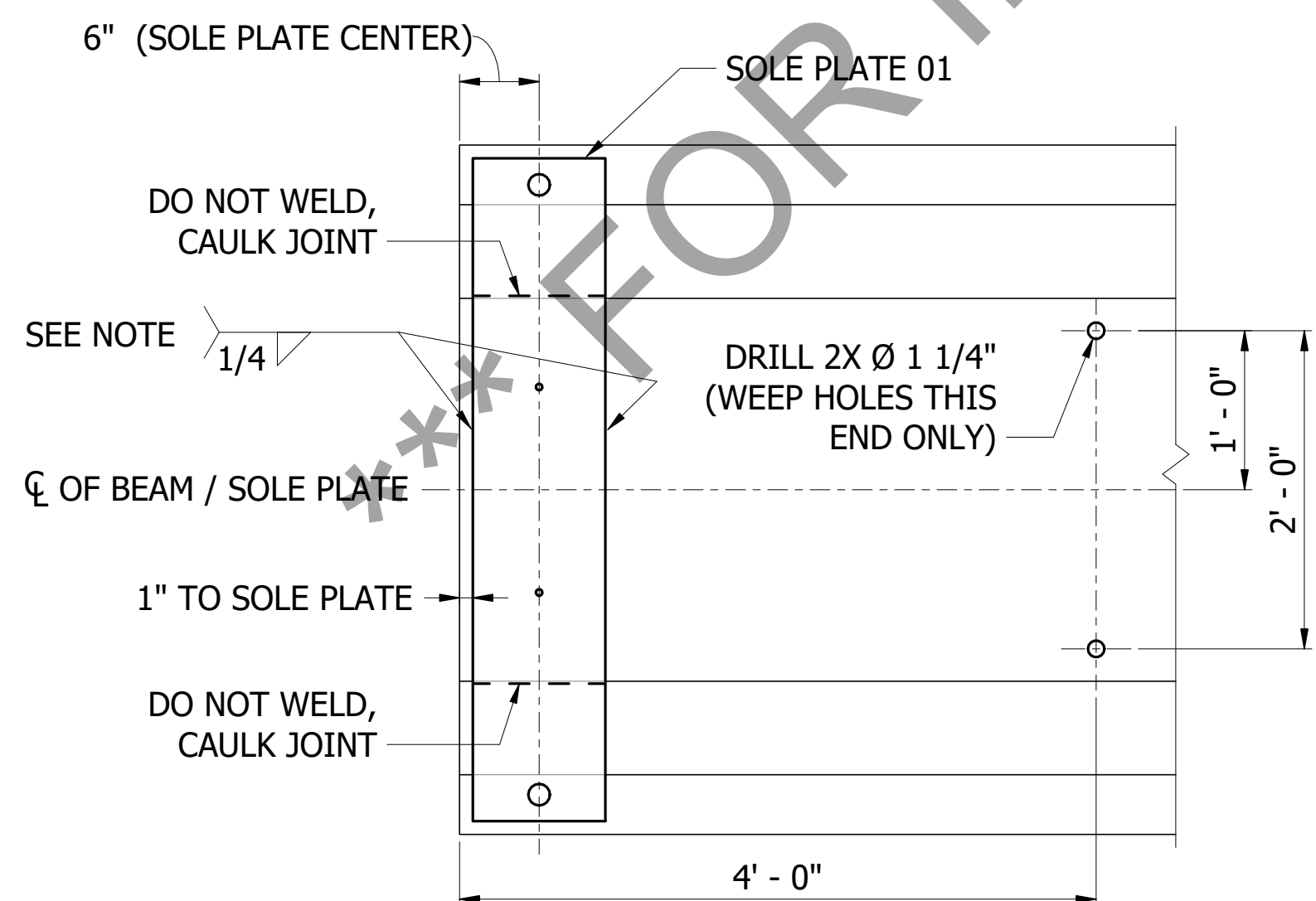
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**SECTION A-A**  
(CONNECTION PLATES ARE NOT SHOWN FOR CLARITY.)



**SECTION B-B**



**SECTION C-C**  
(FIXED SOLE PLATE)

**WELD NOTE:**  
- SEE WELDING SECTION ON COVER SHEET FOR WELDING SPECIFICATIONS.

**NOTE:**  
- REFERENCE FRAMING PLAN DRAWING FOR OVERALL GIRDER ASSEMBLY.

LABEL	DESCRIPTION	QTY PER ASSY
U-BEAM	U30 x 16' - 5 13/16" GIRDER	1
BRACE	L4x4x1/4 x 3'-4 7/8"	2
BRACE w/HOLES	L4x4x1/4 x 3'-4 7/8" w/(2) 3/4"Ø HOLES	2
CONNEX PLATE	PL 1/2" x (6 1/4" / 7 3/4") x 1'-2"	2
DIAPHRAGM	PL 3/8" x 2'-5 5/8" x 3'-2 1/4"	2
SHEAR STUD	7/8"Ø x 6" SHEAR STUD	62
SOLE PLATE 01	PL 3/4" x 10" x 4'-2" w/(2) 1 5/8"Ø & (2) 1/2"Ø HOLES	1
SOLE PLATE 03	PL 3/4" x 10" x 2'-4"	1
TAG	ID TAG	1

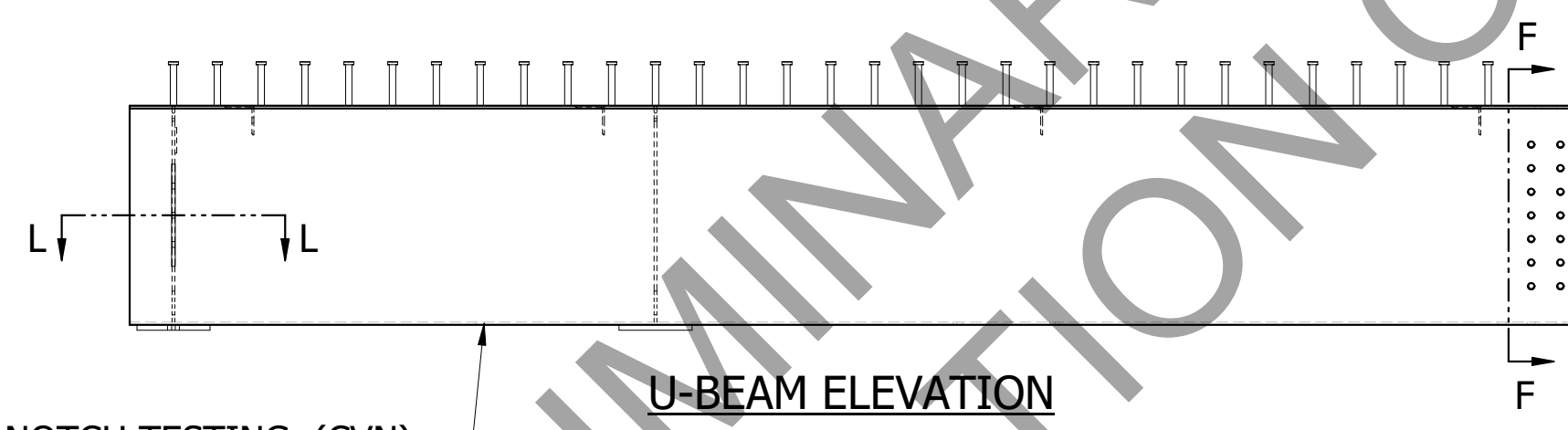
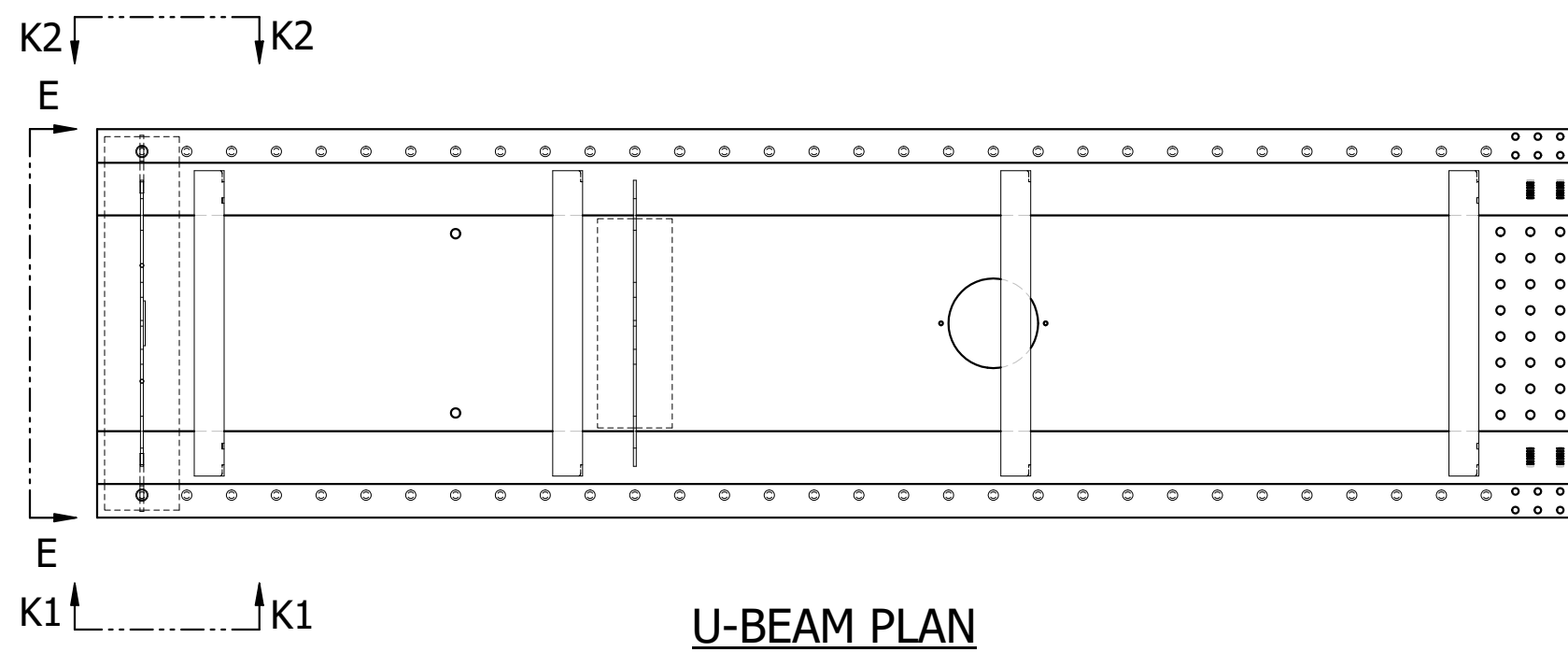
JOB IMPERIAL CO., CA.  
DOGWOOD ROAD OVER CENTRAL MAIN CANAL  
BRIDGE NO: 58C-0226 / COUNTY PROJECT 6222

TITLE G1-1 SHEET 1

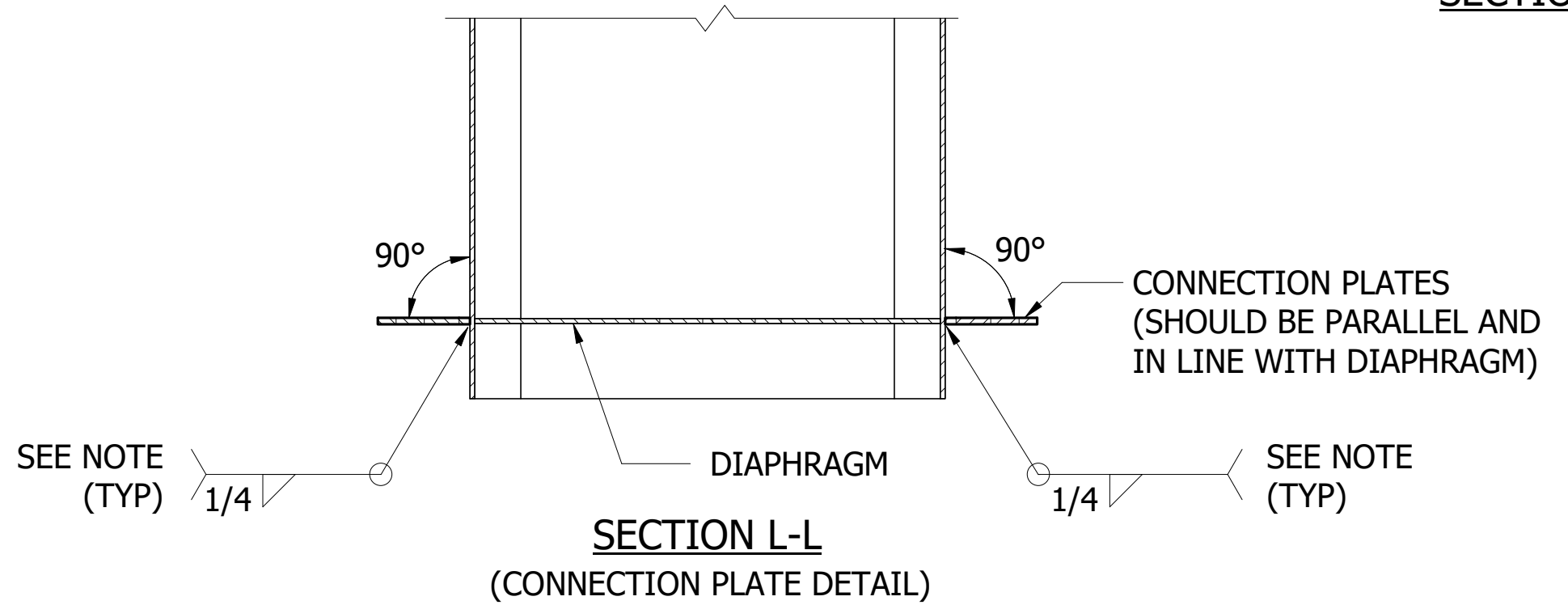
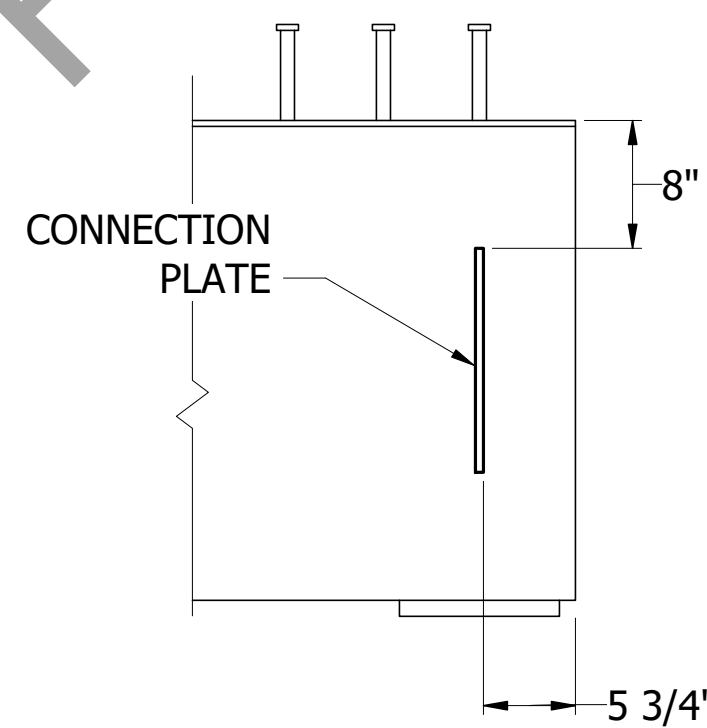
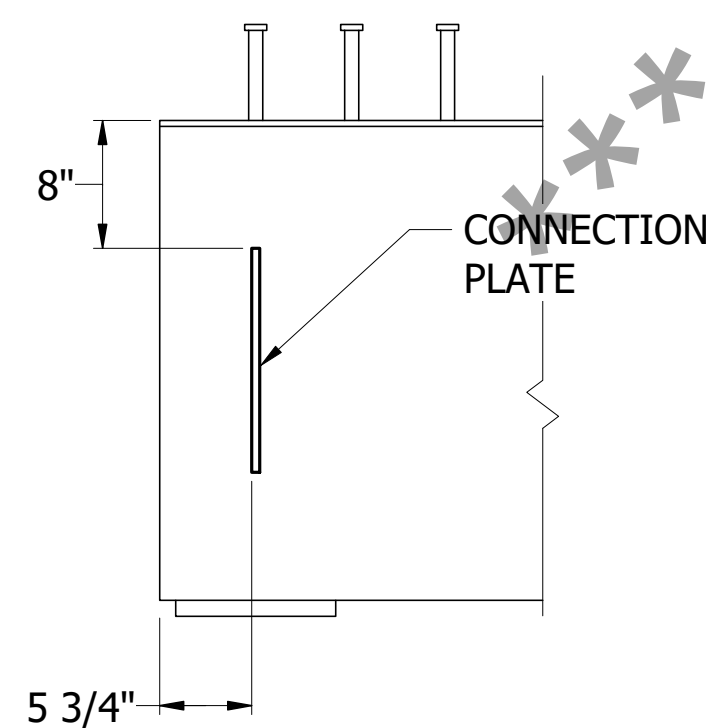
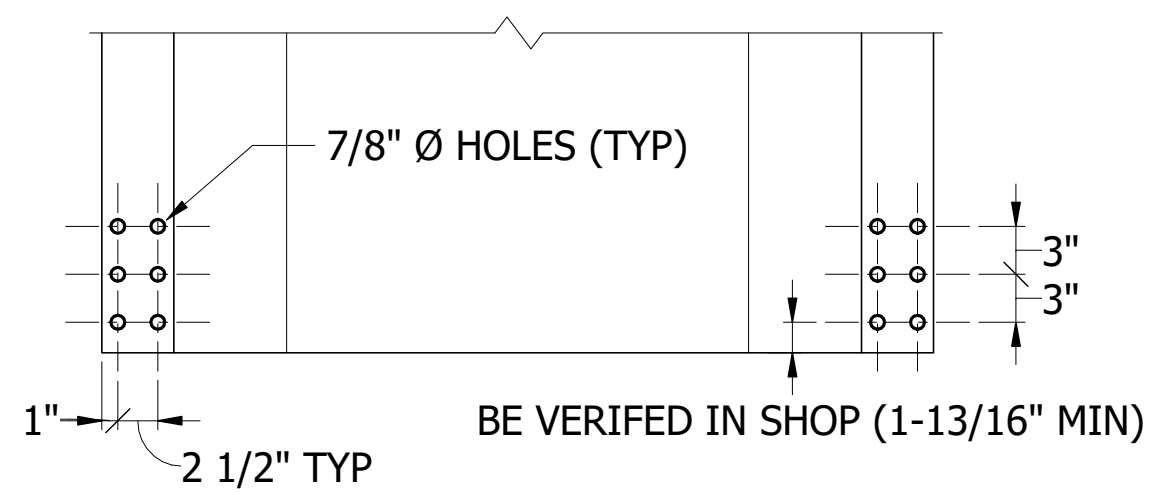
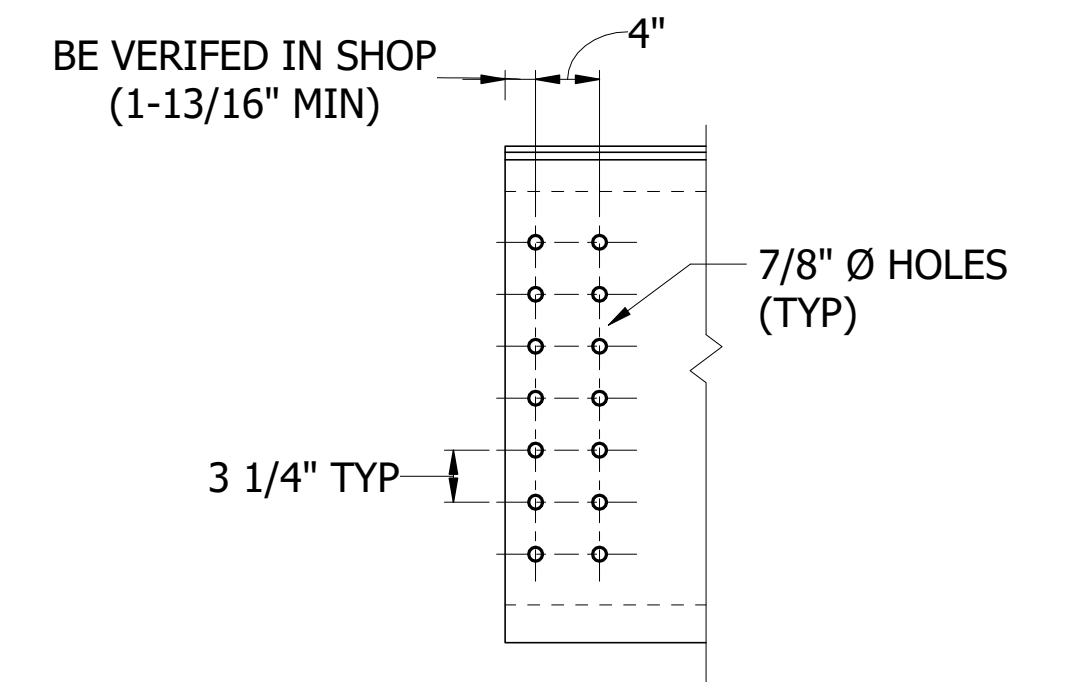
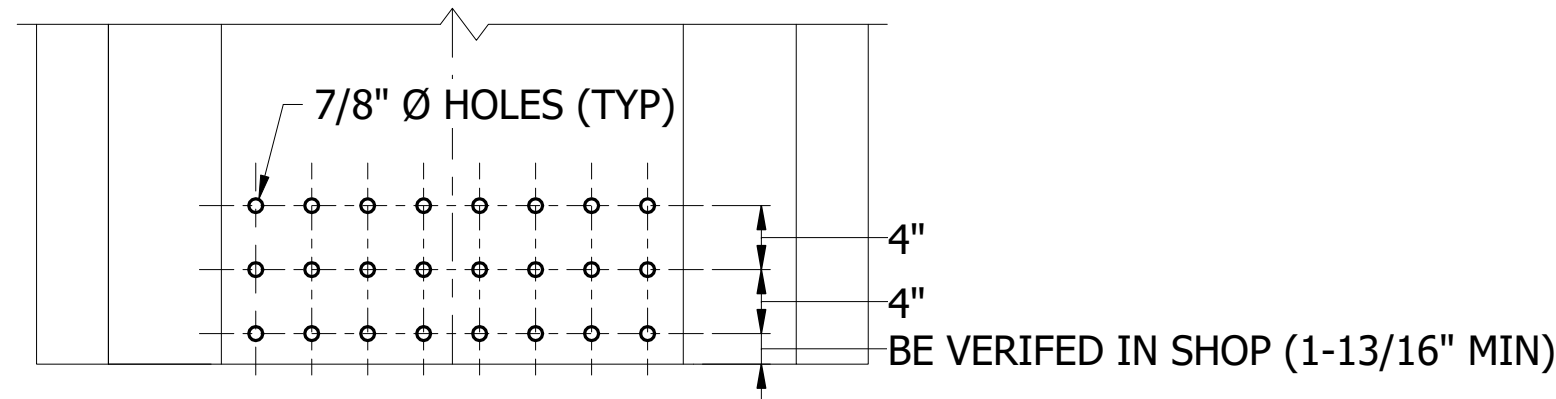
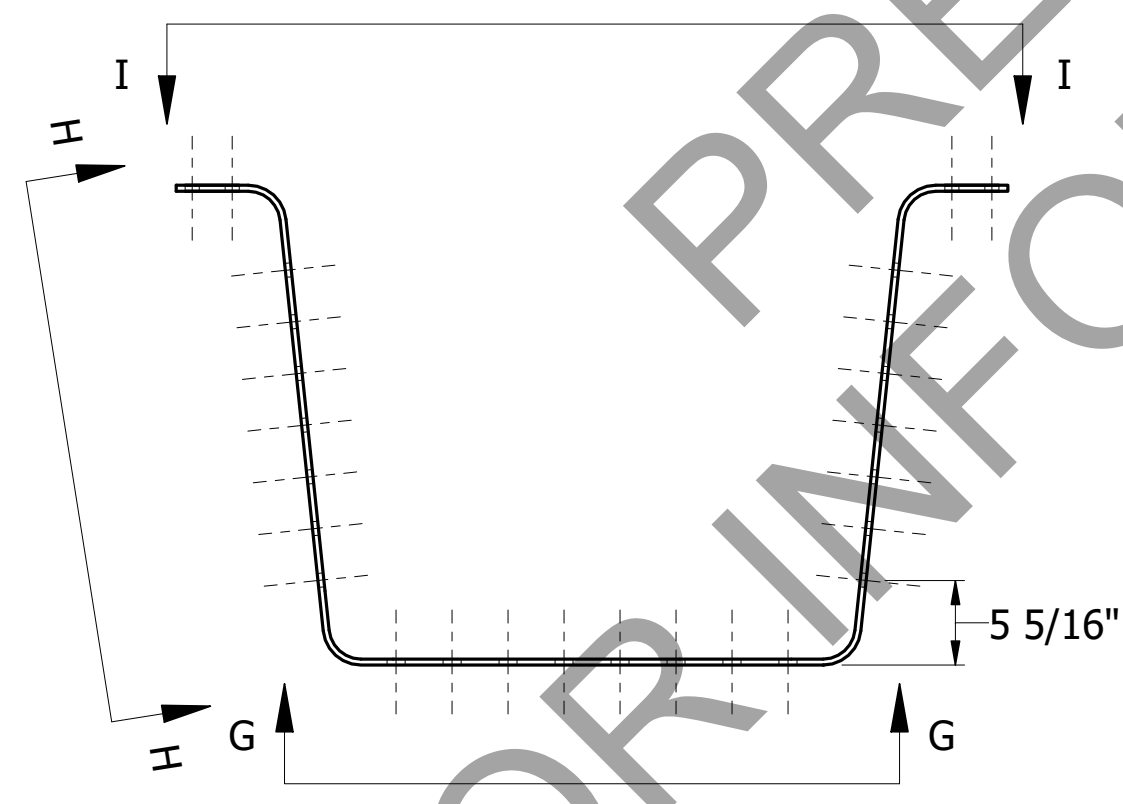
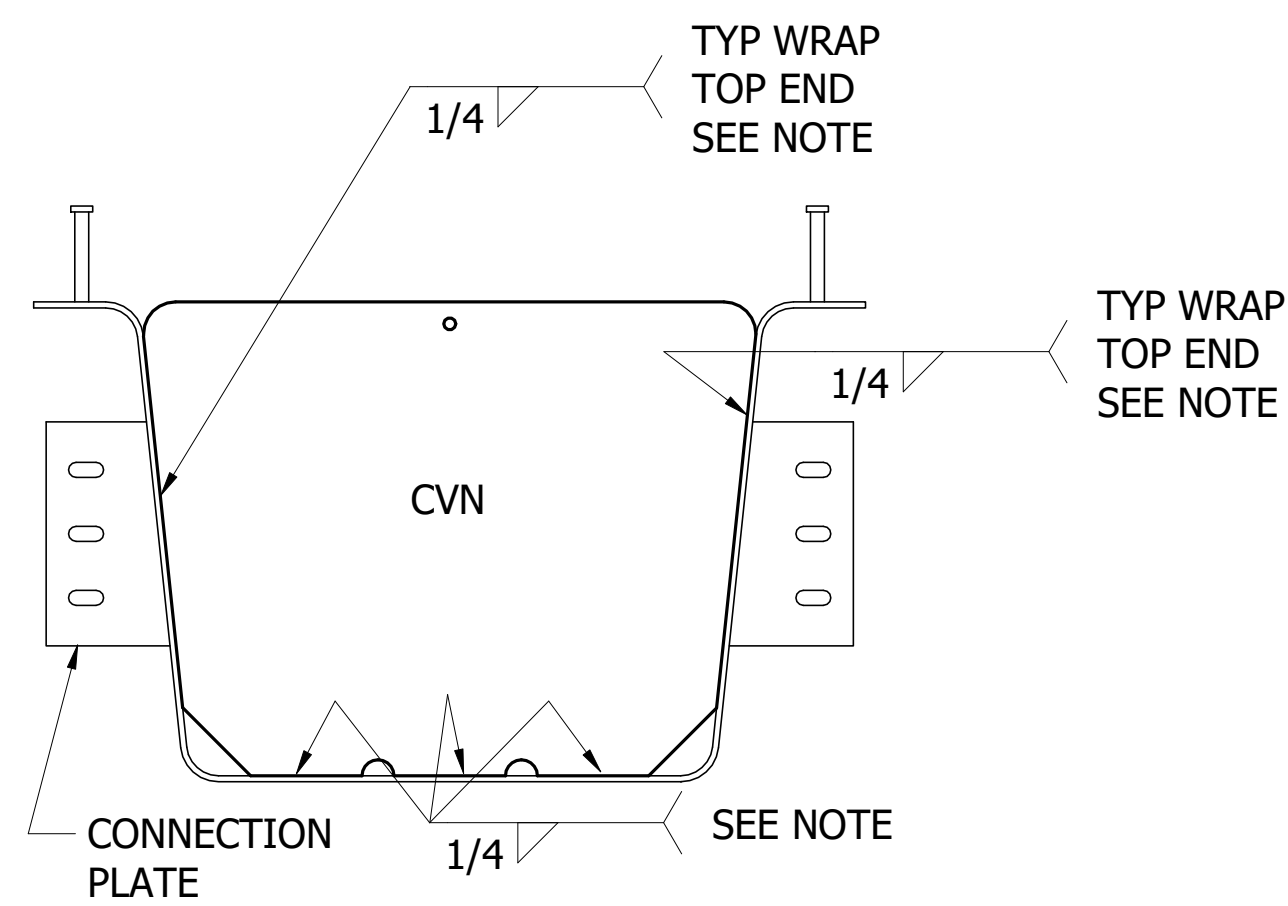
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U-BEAM REQUIRES CHARPY V-NOTCH TESTING. (CVN)



JOB IMPERIAL CO., CA.  
DOGWOOD ROAD OVER CENTRAL MAIN CANAL  
BRIDGE NO: 58C-0226 / COUNTY PROJECT 6222

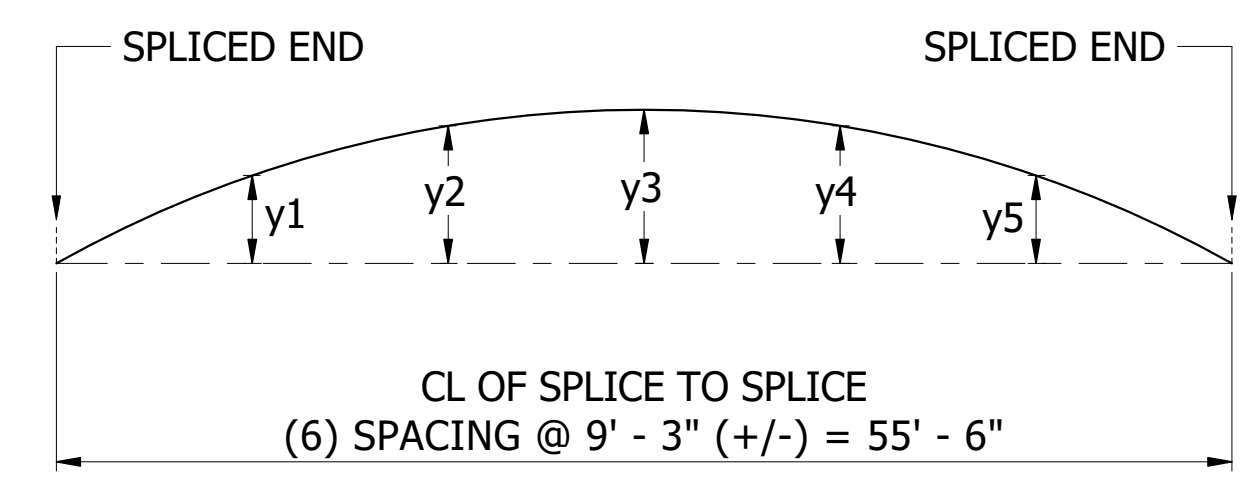
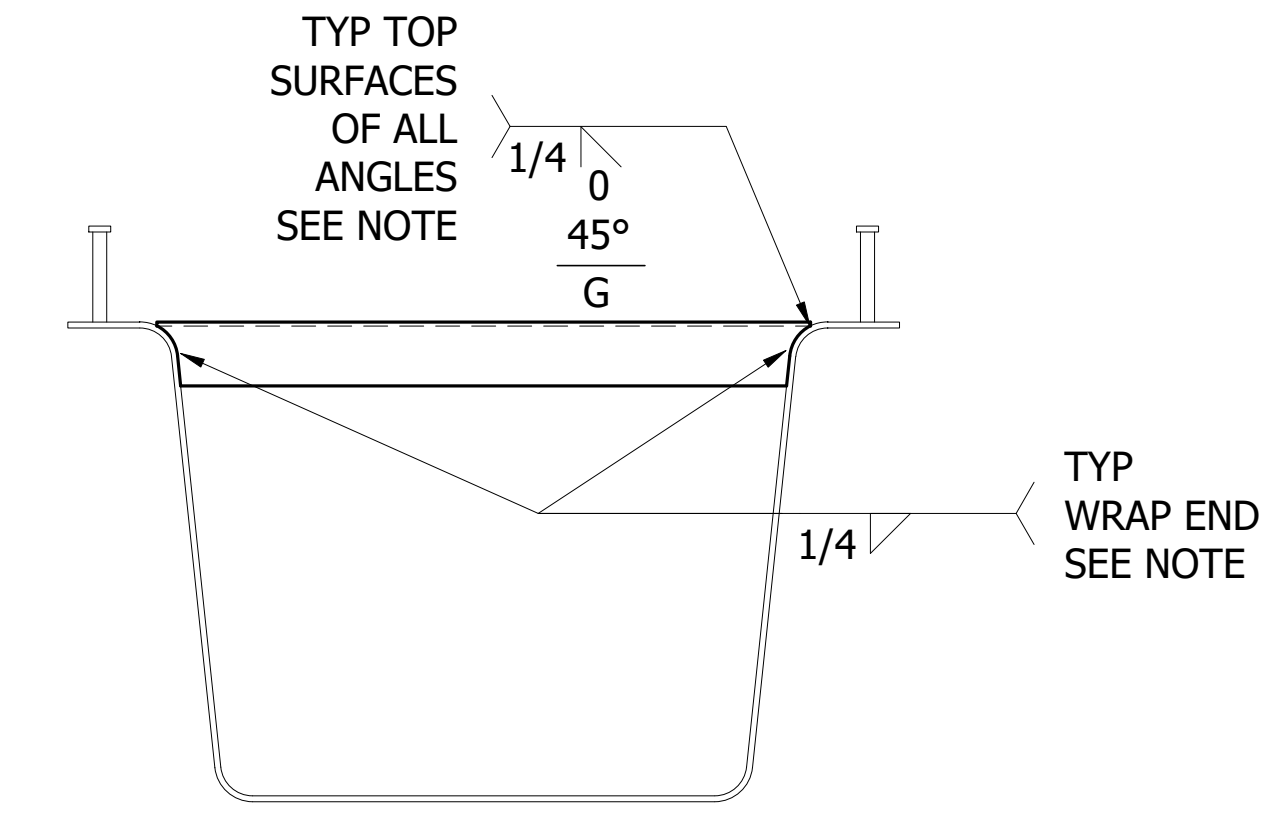
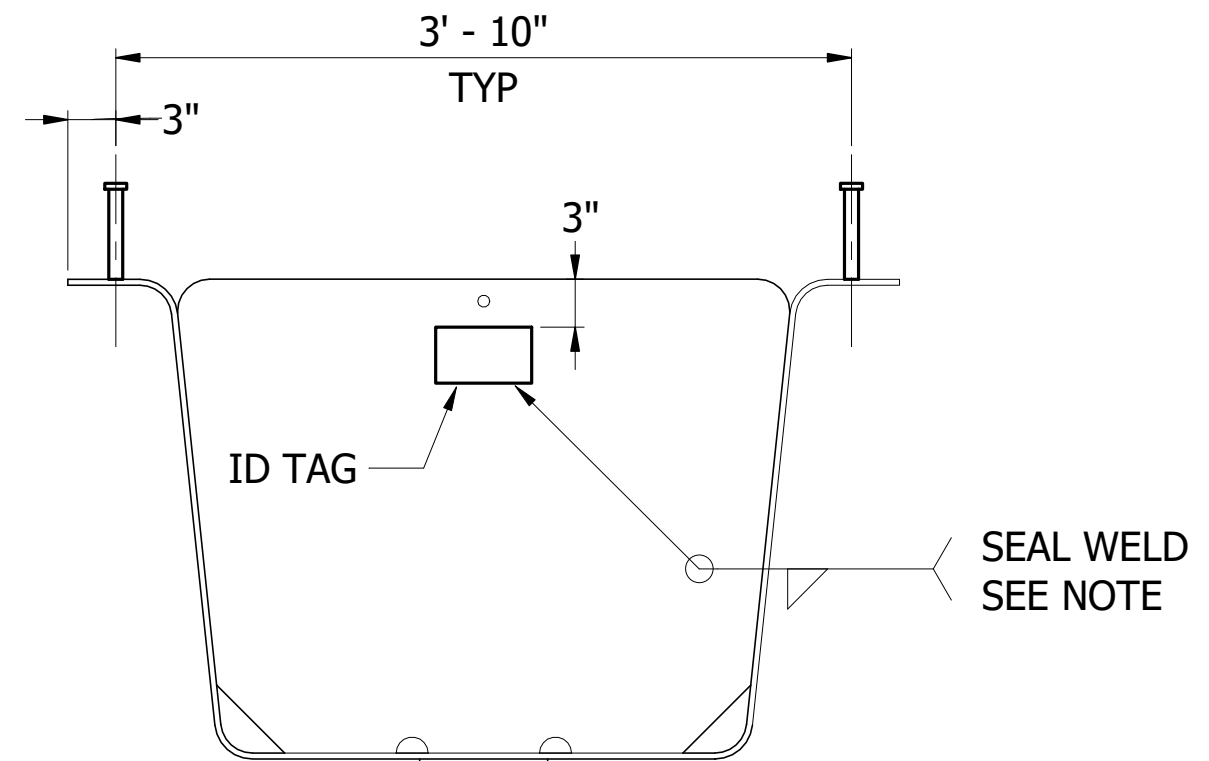
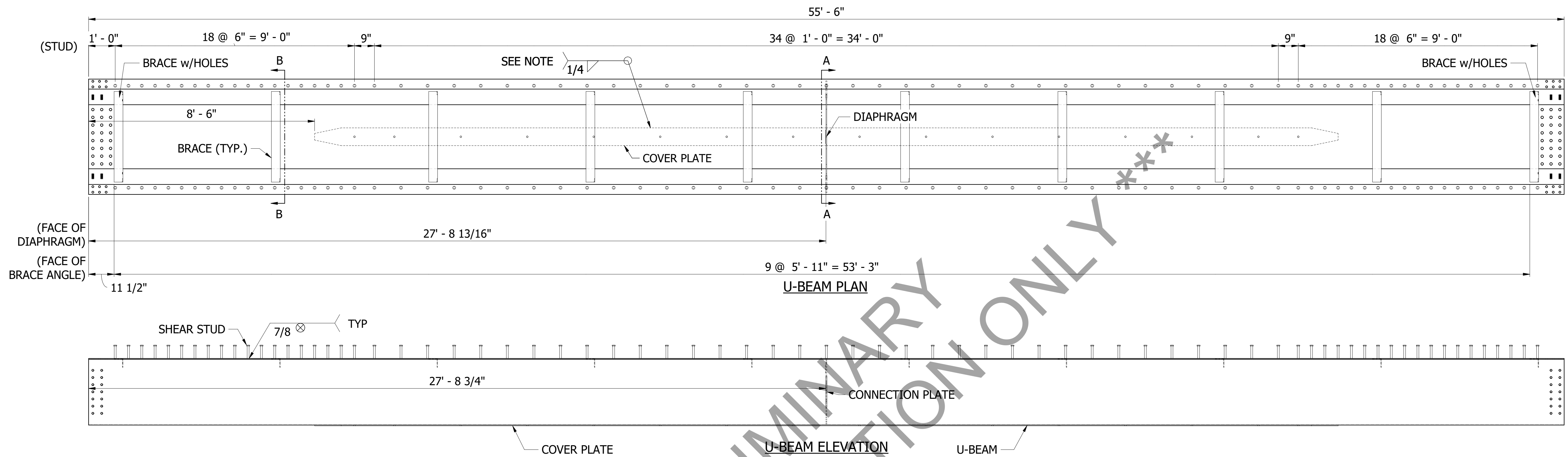
TITLE G1-1 SHEET 2

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CAMBER ORDINATES	U-BEAM G1-2
y1	1 7/8"
y2	2 15/16"
y3	3 5/16"
y4	2 15/16"
y5	1 7/8"

**WELD NOTE:**  
- SEE WELDING SECTION ON COVER SHEET FOR WELDING SPECIFICATIONS.

**NOTE:**  
- REFERENCE FRAMING PLAN DRAWING FOR OVERALL GIRDER ASSEMBLY.

LABEL	DESCRIPTION	QTY PER ASSY
U-BEAM	U30 x 55' - 6" GIRDER	1
BRACE	L4x4x1/4 x 3'-4 7/8"	8
BRACE w/HOLES	L4x4x1/4 x 3'-4 7/8" w/(2) 3/4"Ø HOLES	2
CONNEX PLATE	PL 1/2" x (6 1/4" / 7 3/4") x 1'-2"	2
COVER PLATE	PL 3/8" x 8" x 38' - 6"	1
DIAPHRAGM	PL 3/8" x 2'-5 5/8" x 3'-2 1/4"	1
SHEAR STUD	7/8"Ø x 6" SHEAR STUD	146
TAG	ID TAG	1

JOB IMPERIAL CO., CA.  
DOGWOOD ROAD OVER CENTRAL MAIN CANAL  
BRIDGE NO: 58C-0226 / COUNTY PROJECT 6222

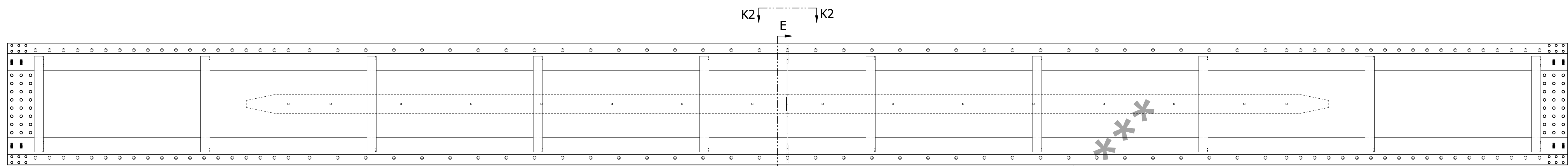
TITLE G1-2 SHEET 1

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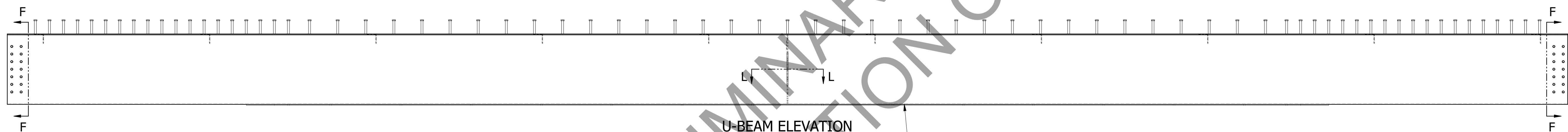


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\*\*\* PRELIMINARY FOR INFORMATION ONLY \*\*\*

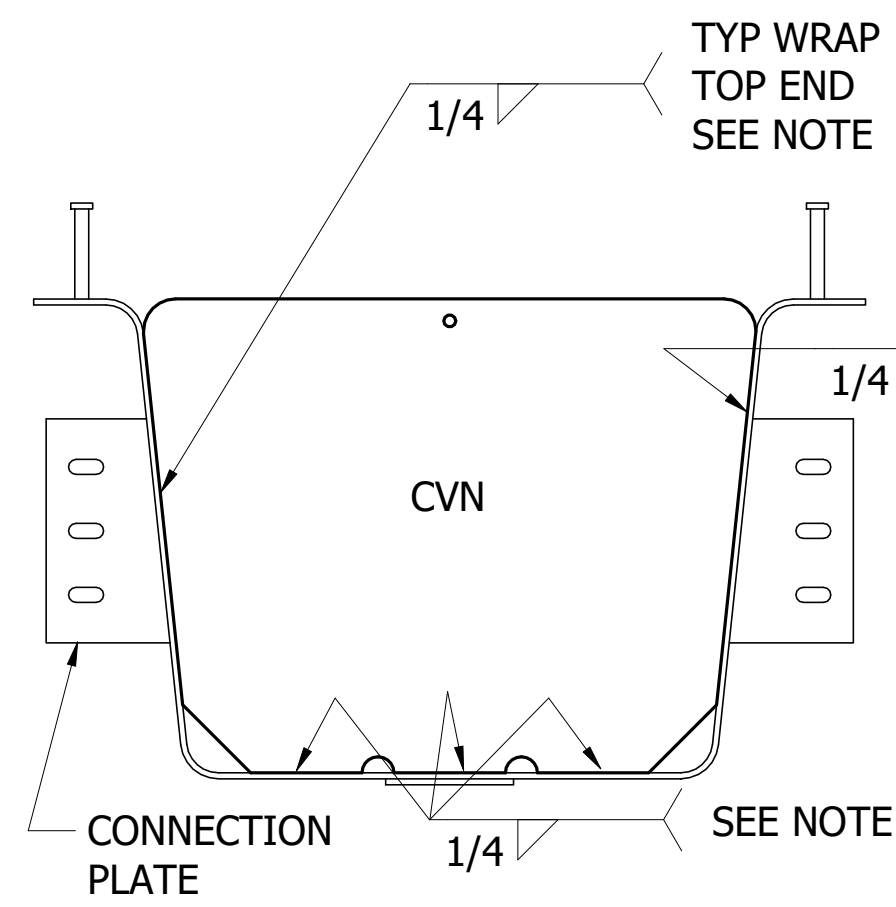


U-BEAM PLAN



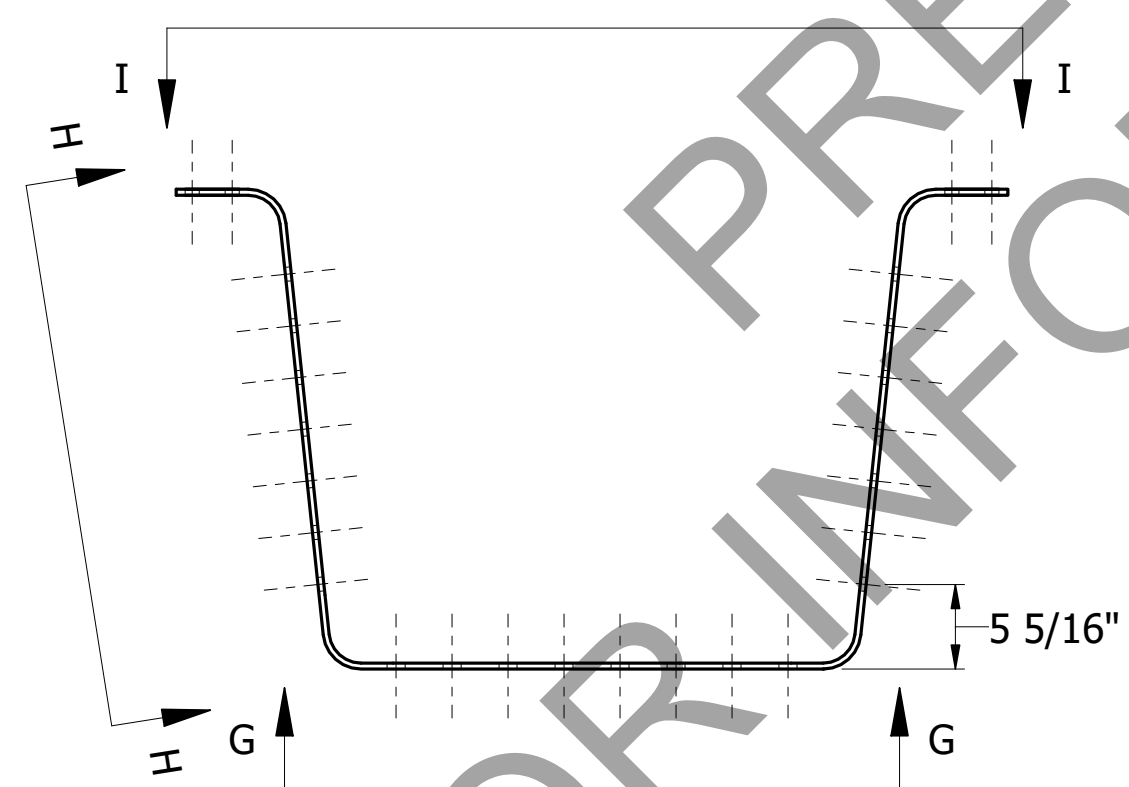
U-BEAM ELEVATION

U-BEAM REQUIRES CHARPY V-NOTCH TESTING. (CVN)

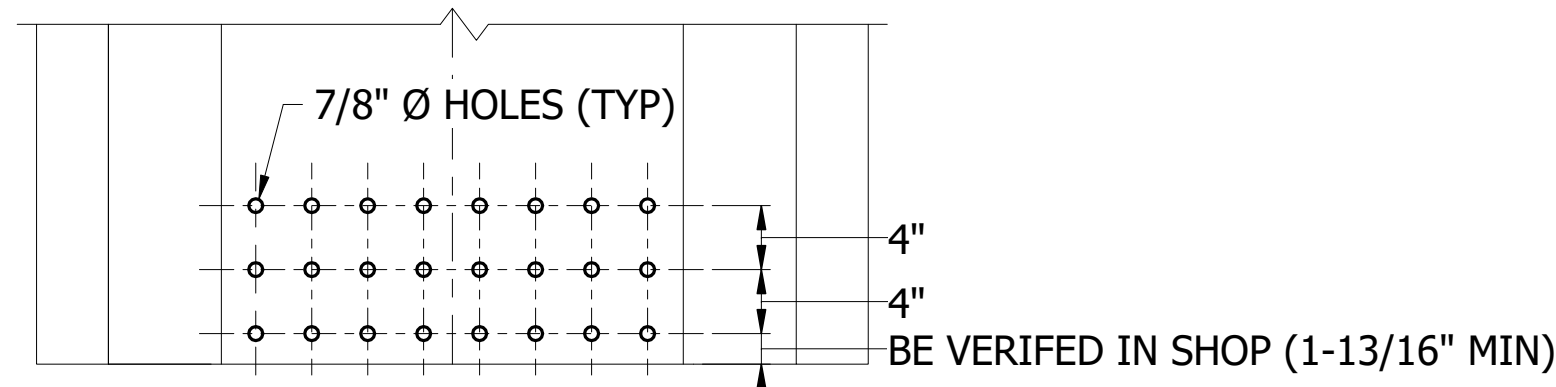


SECTION E-E

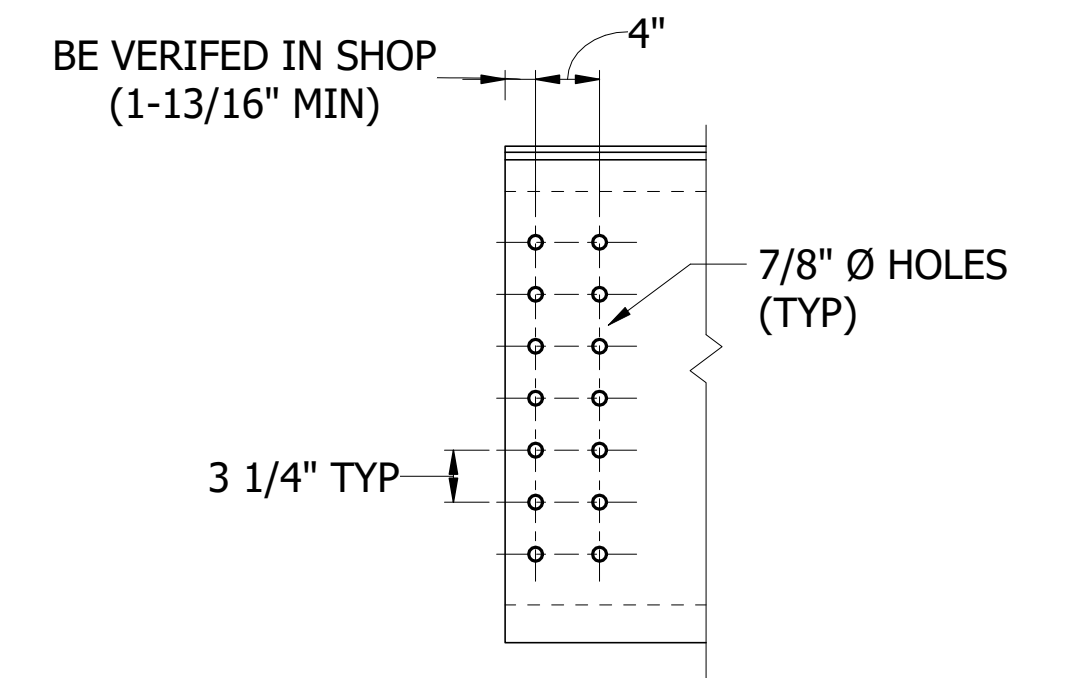
WELD DIAPHRAGM ON OUTSIDE ONLY (TYP)  
(LOOKING NORMAL TO DIAPHRAGM  
AND CONNECTION PLATES)



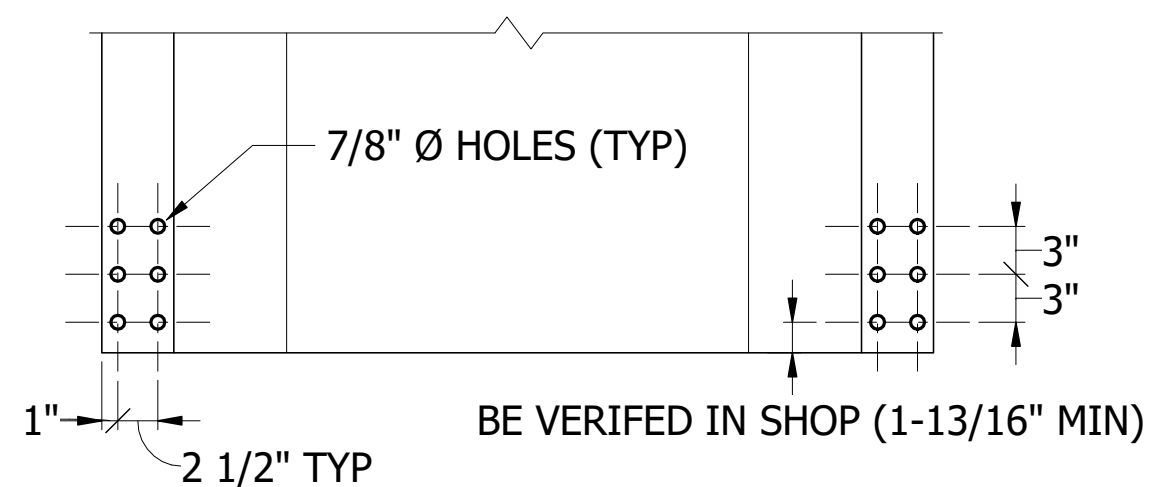
SECTION F-F



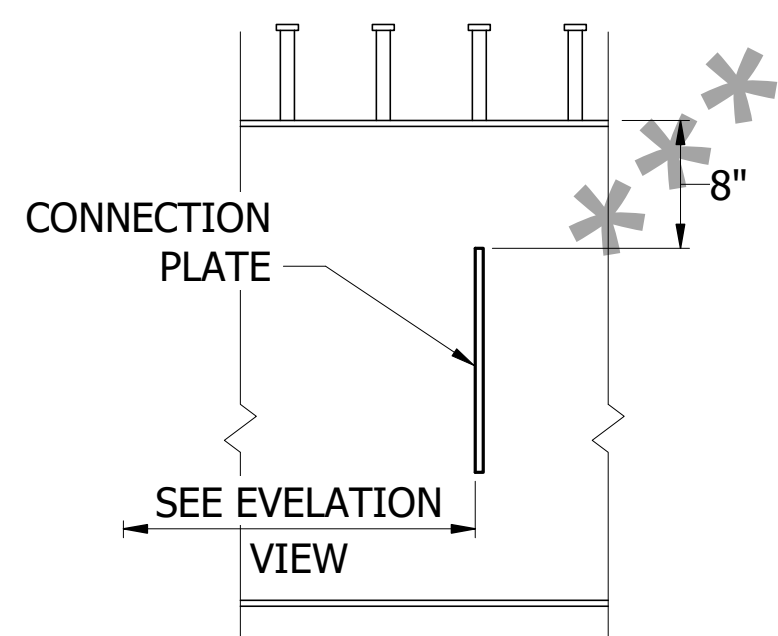
SECTION G-G



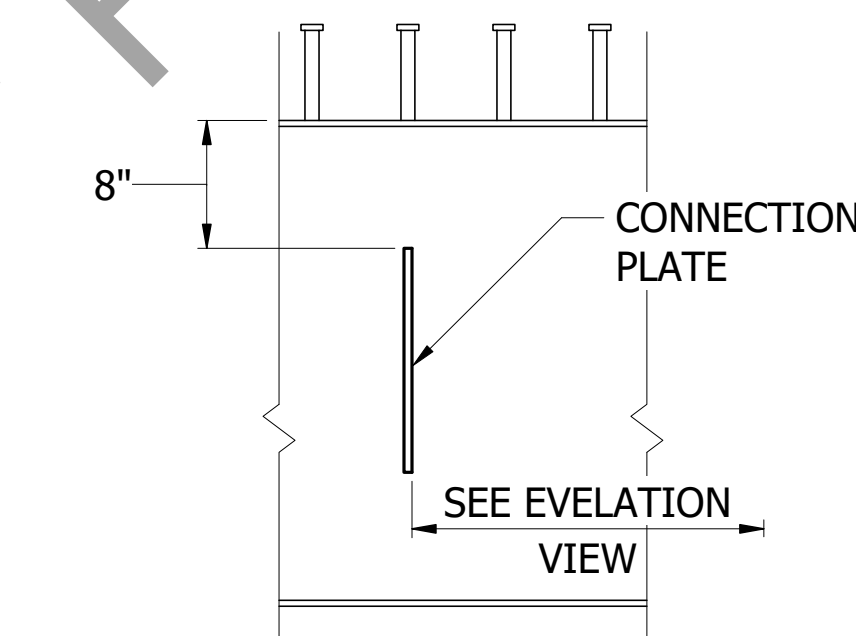
SECTION H-H



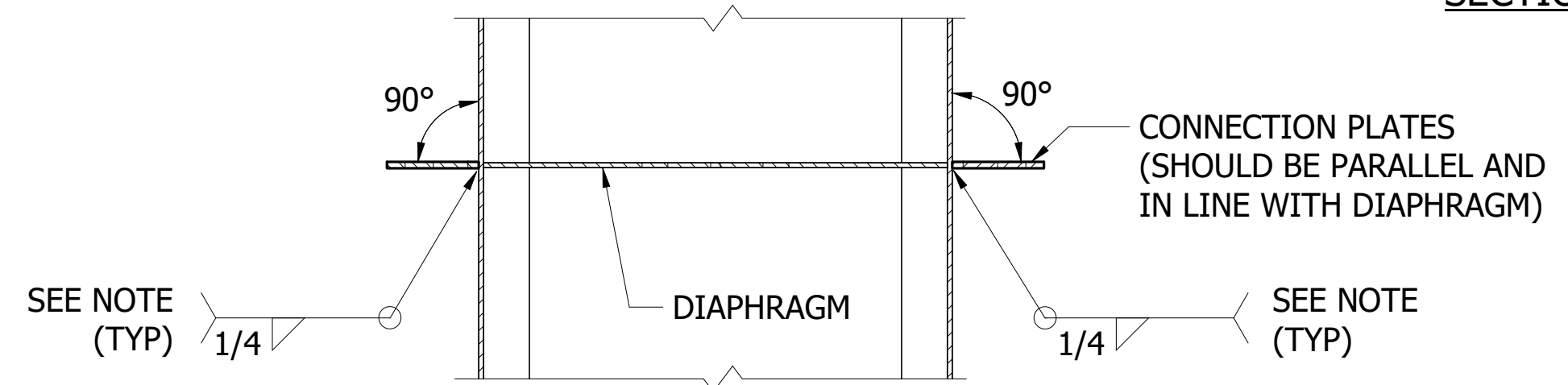
SECTION I-I



SECTION K1-K1



SECTION K2-K2



SECTION L-L  
(CONNECTION PLATE DETAIL)

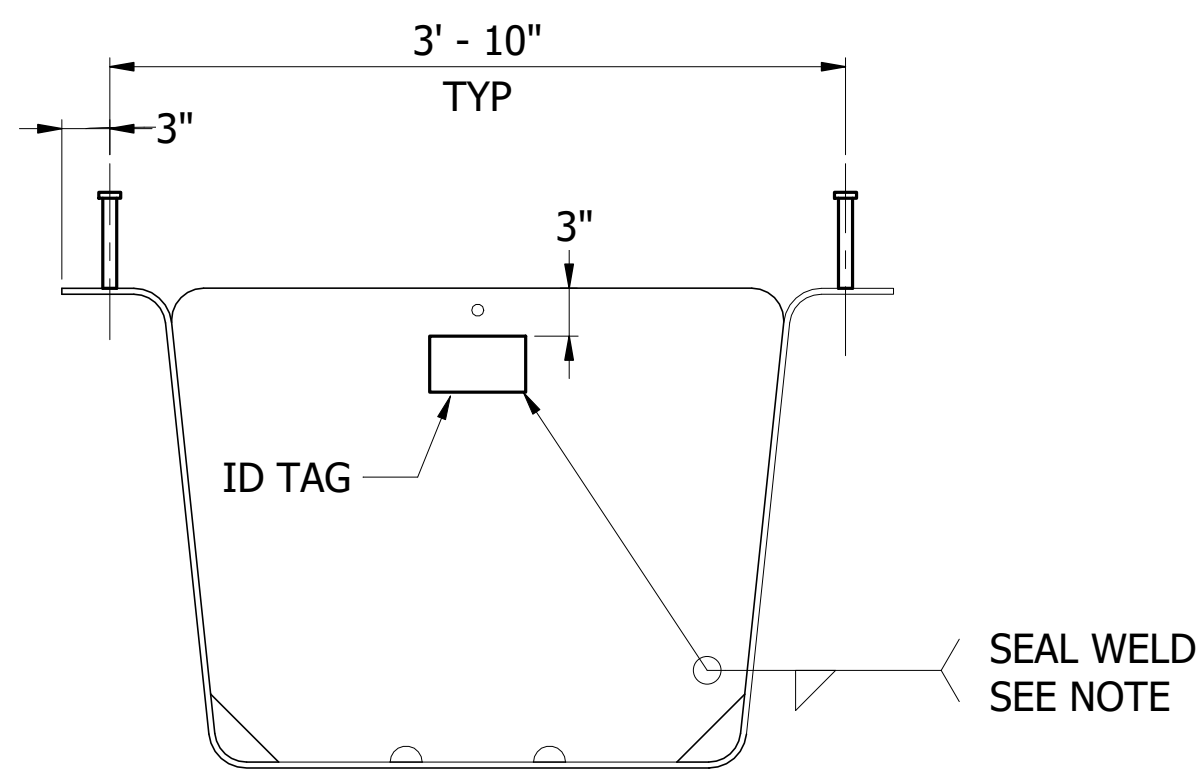
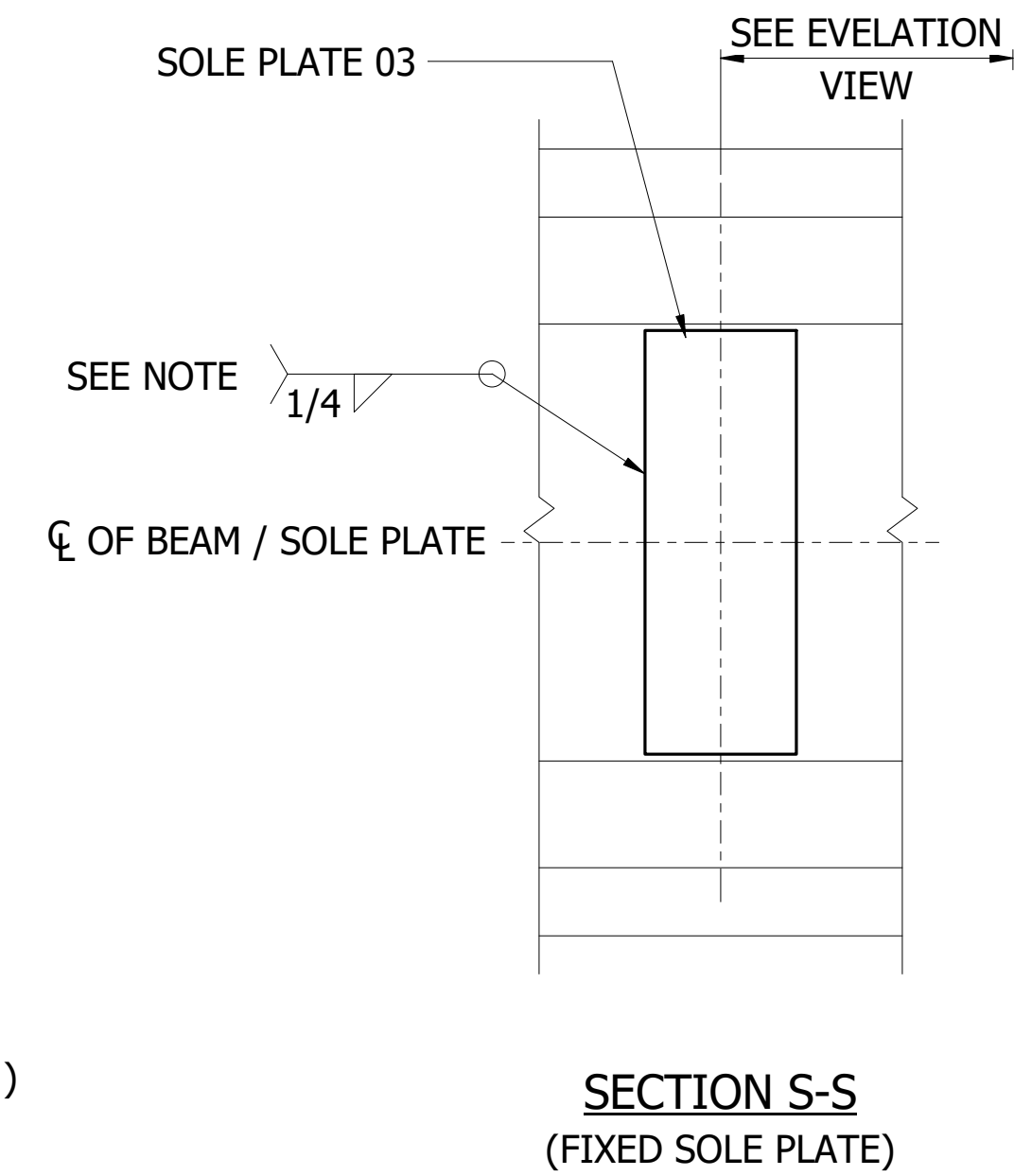
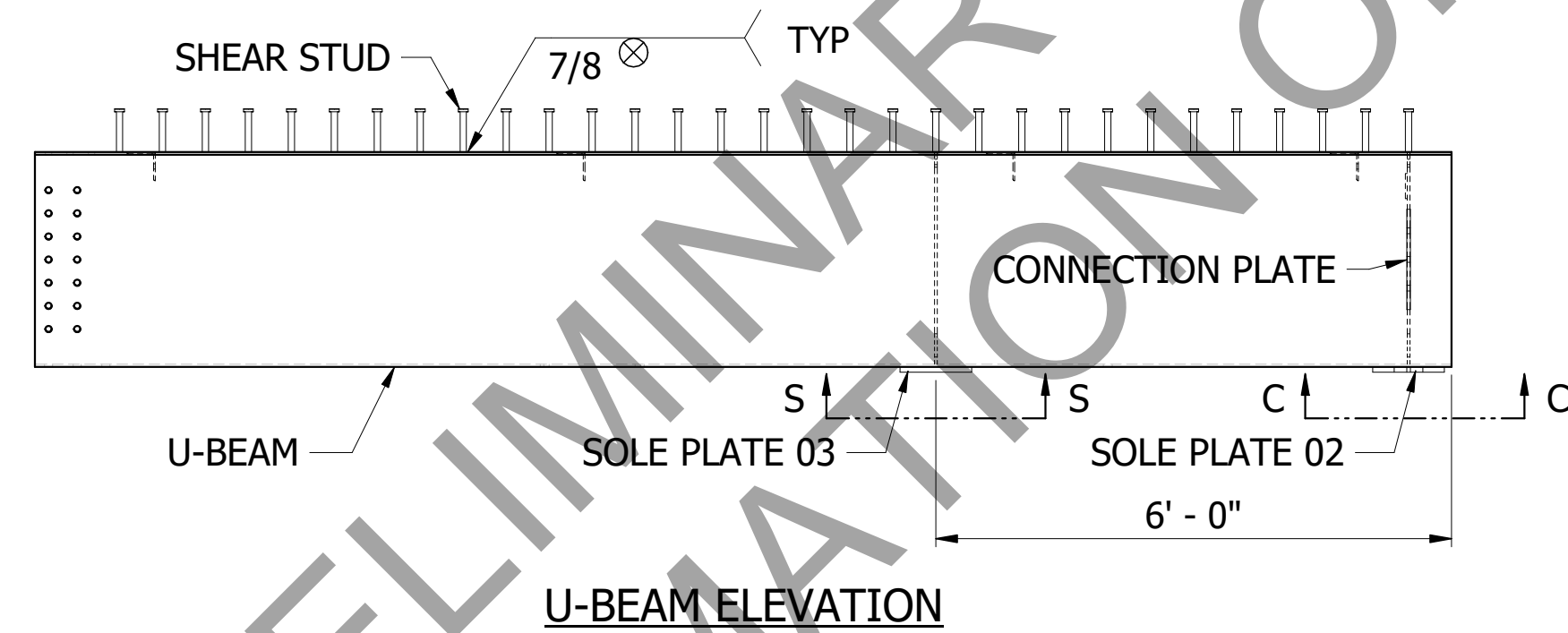
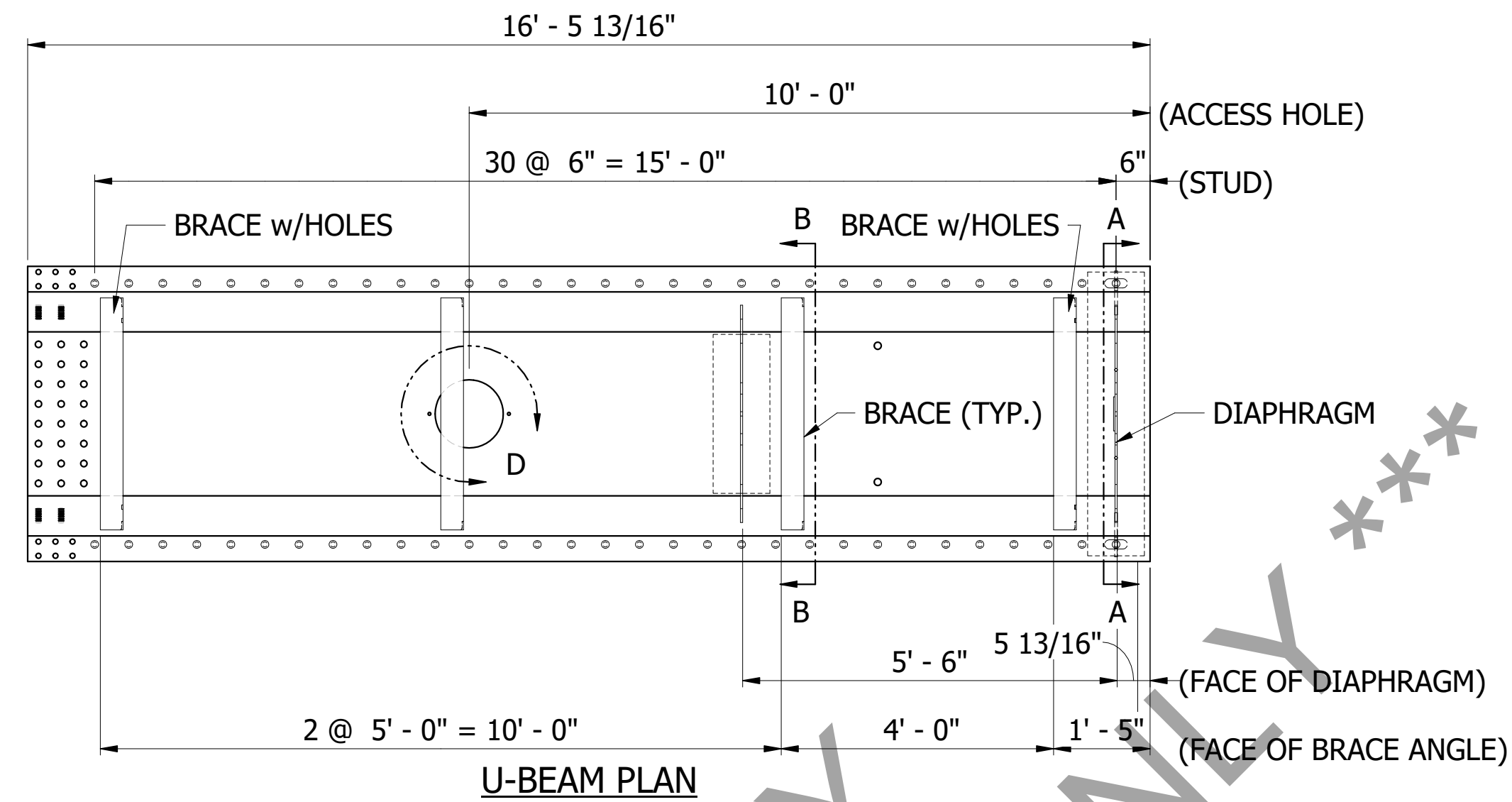
JOB IMPERIAL CO., CA.  
DOGWOOD ROAD OVER CENTRAL MAIN CANAL  
BRIDGE NO: 58C-0226 / COUNTY PROJECT 6222

TITLE G1-2 SHEET 2

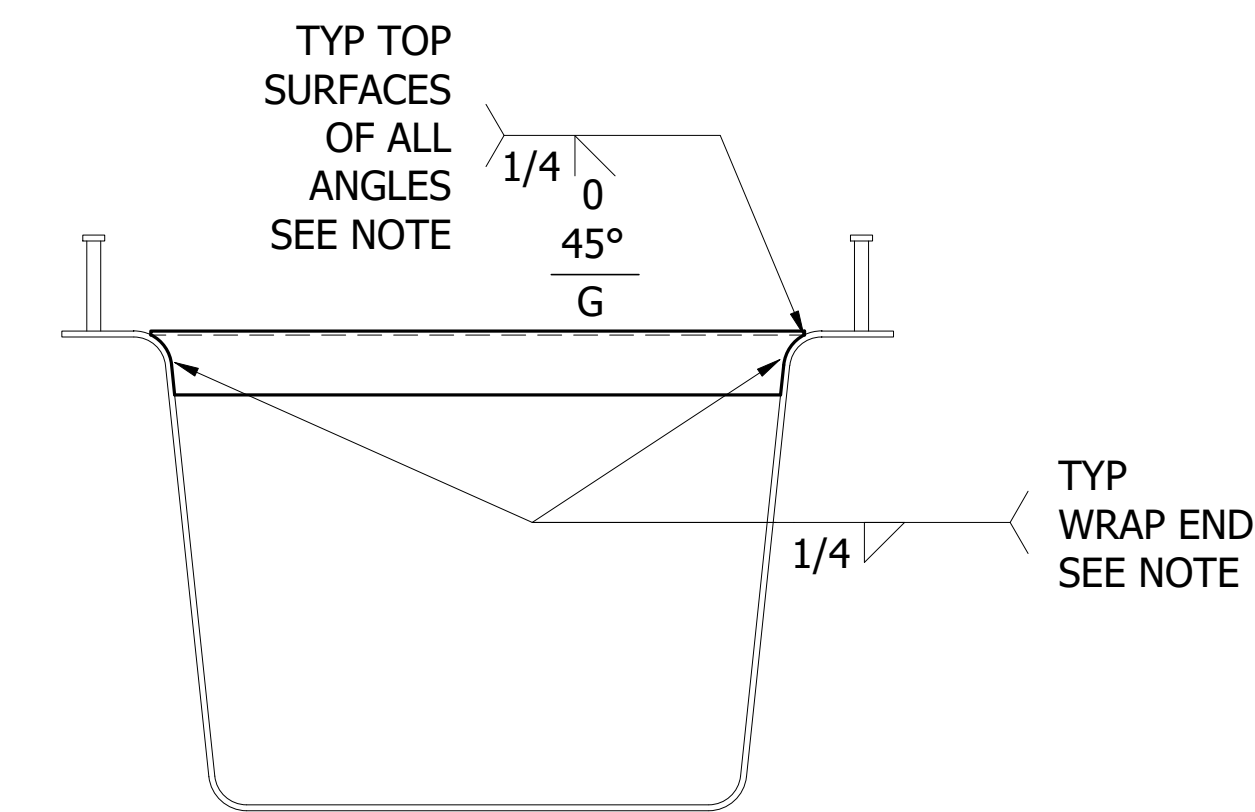
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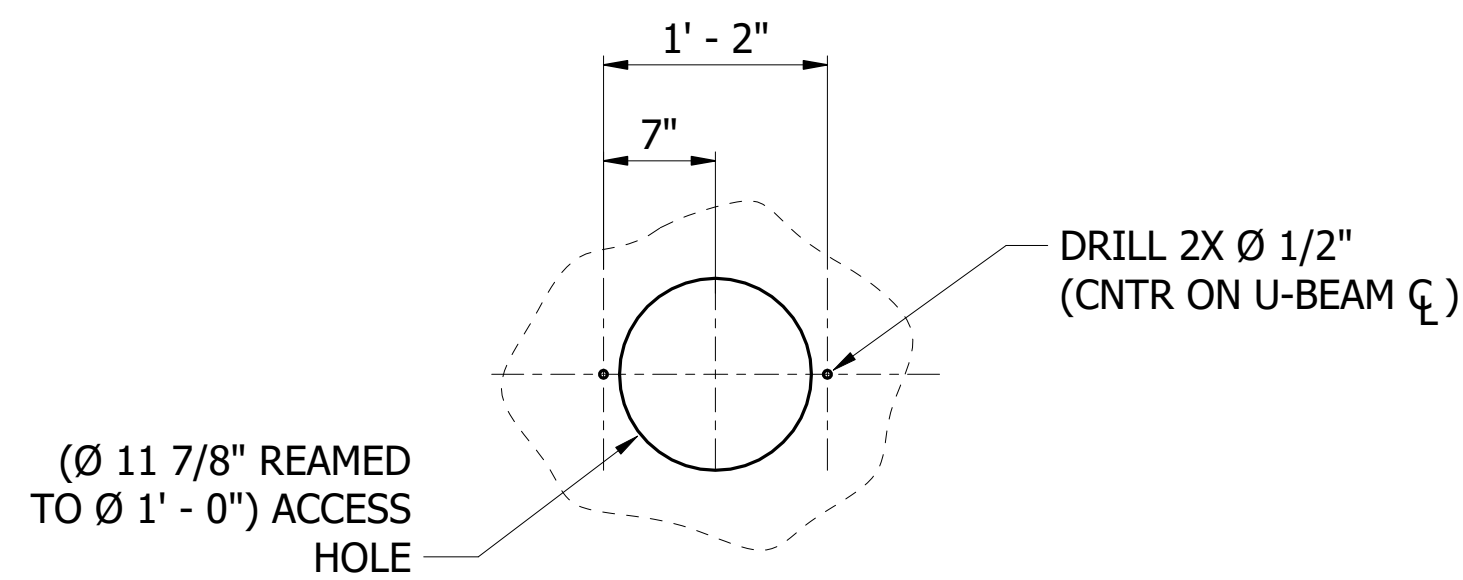
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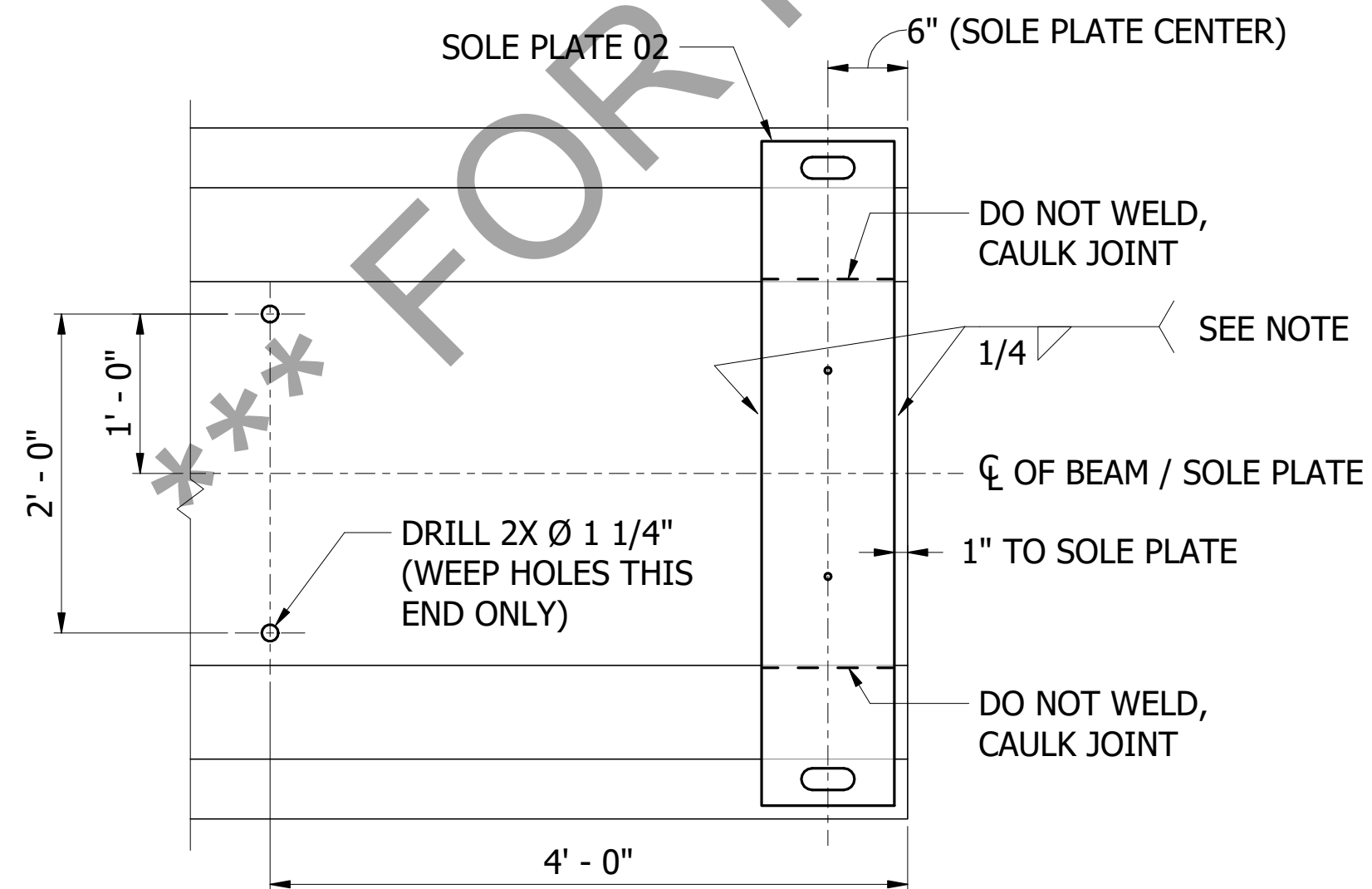
**SECTION A-A**  
(CONNECTION PLATES ARE NOT SHOWN FOR CLARITY.)



**SECTION B-B**



**DETAIL D**



**SECTION C-C**  
(EXP. SOLE PLATE)

WELD NOTE:  
- SEE WELDING SECTION ON COVER SHEET FOR WELDING SPECIFICATIONS.

NOTE:  
- REFERENCE FRAMING PLAN DRAWING FOR OVERALL GIRDER ASSEMBLY.

LABEL	DESCRIPTION	QTY PER ASSY
U-BEAM	U30 x 16' - 5 13/16" GIRDER	1
BRACE	L4x4x1/4 x 3'-4 7/8"	2
BRACE w/HOLES	L4x4x1/4 x 3'-4 7/8" w/(2) 3/4"Ø HOLES	2
CONNEX PLATE	PL 1/2" x (6 1/4" / 7 3/4") x 1'-2"	2
DIAPHRAGM	PL 3/8" x 2'-5 5/8" x 3'-2 1/4"	1
SHEAR STUD	7/8"Ø x 6" SHEAR STUD	62
SOLE PLATE 02	PL 3/4" x 10" x 4'-2" w/(2) 1/2"Ø HOLES & (2) 1 5/8"Ø x 4" SLOTTED HOLES	1
SOLE PLATE 03	PL 3/4" x 10" x 2'-4"	1
TAG	ID TAG	1

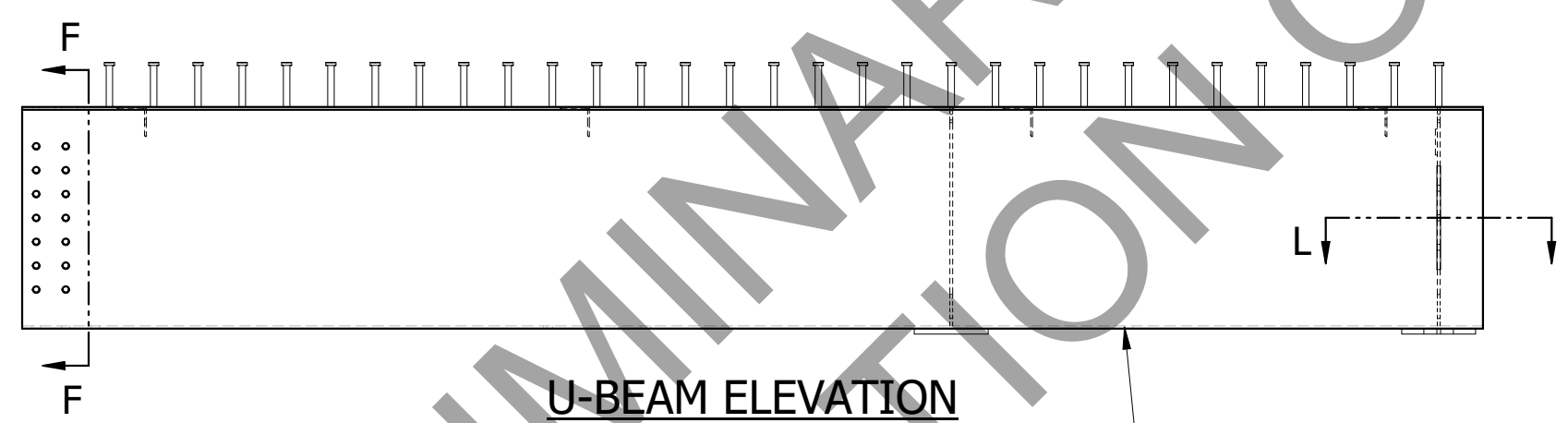
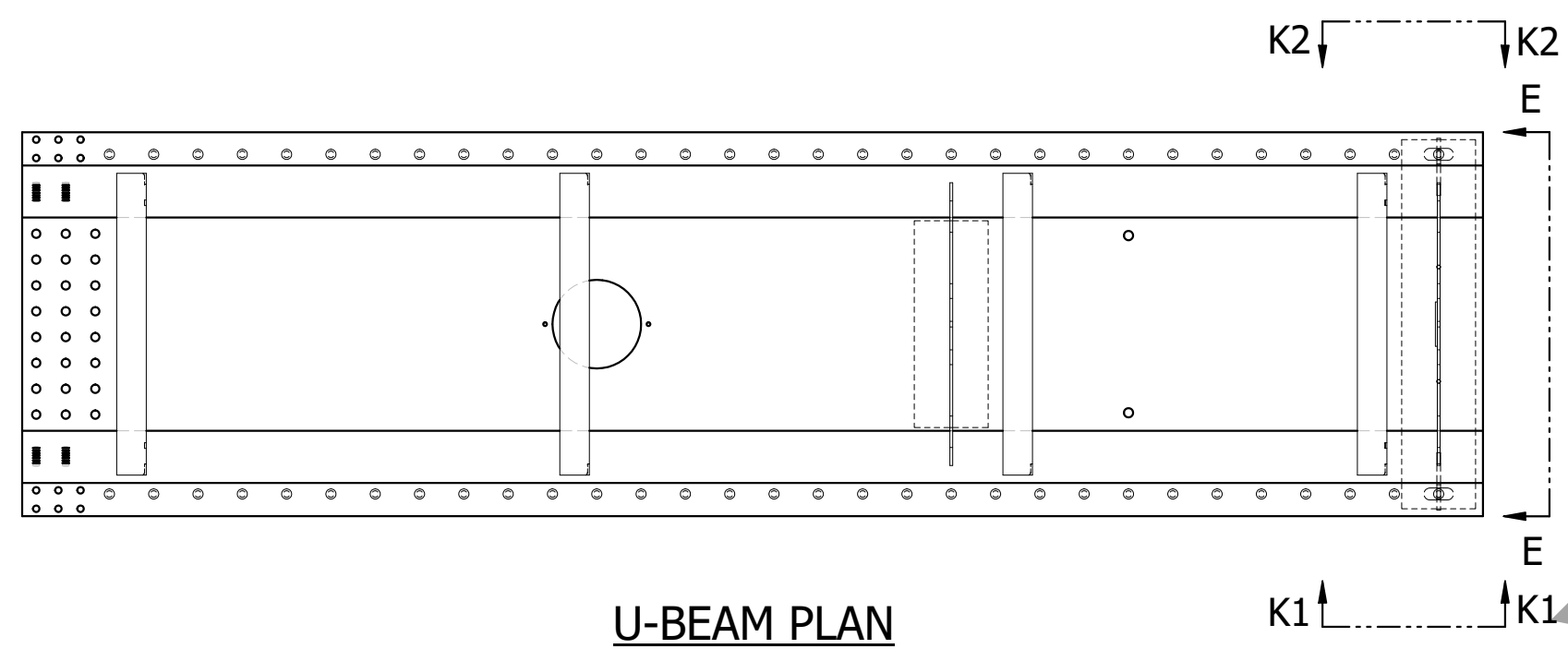
JOB IMPERIAL CO., CA.  
DOGWOOD ROAD OVER CENTRAL MAIN CANAL  
BRIDGE NO: 58C-0226 / COUNTY PROJECT 6222

TITLE G1-3 SHEET 1

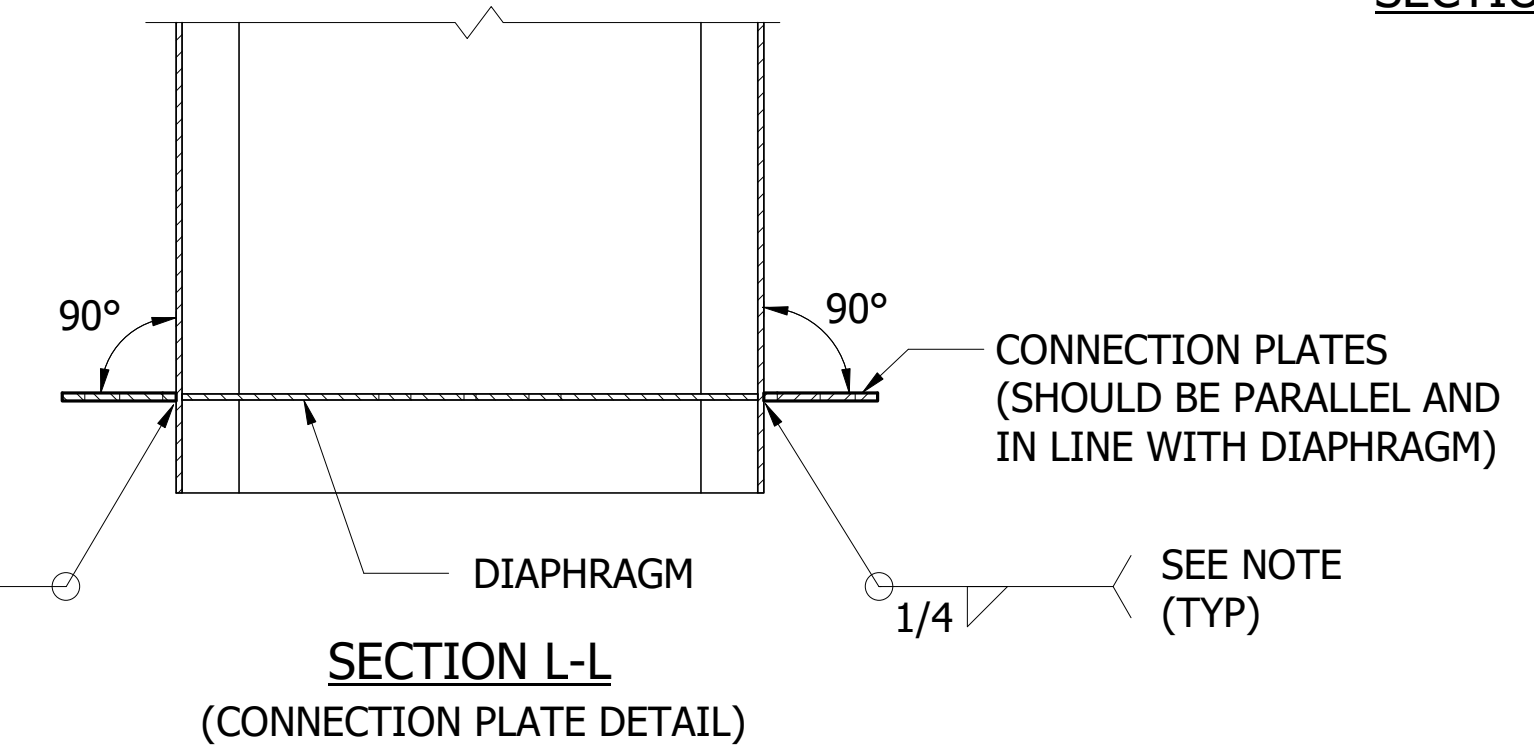
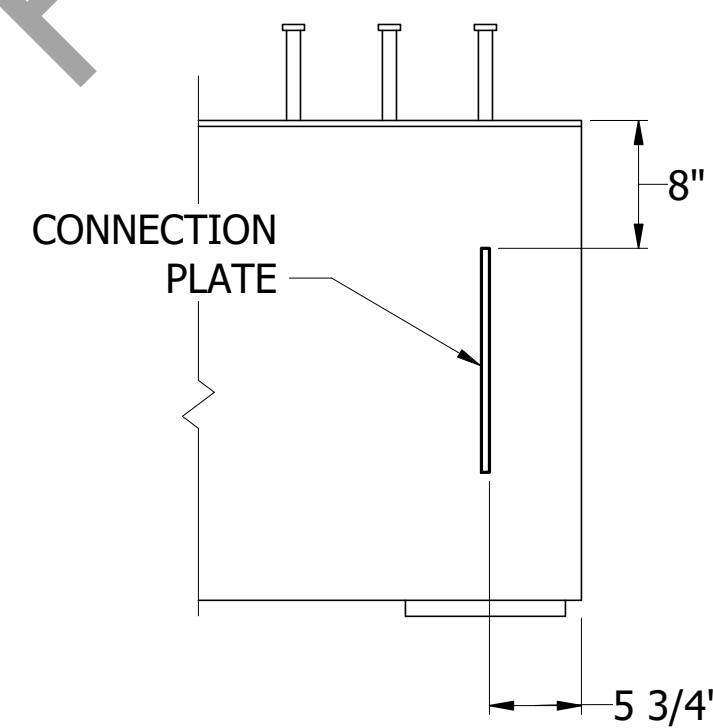
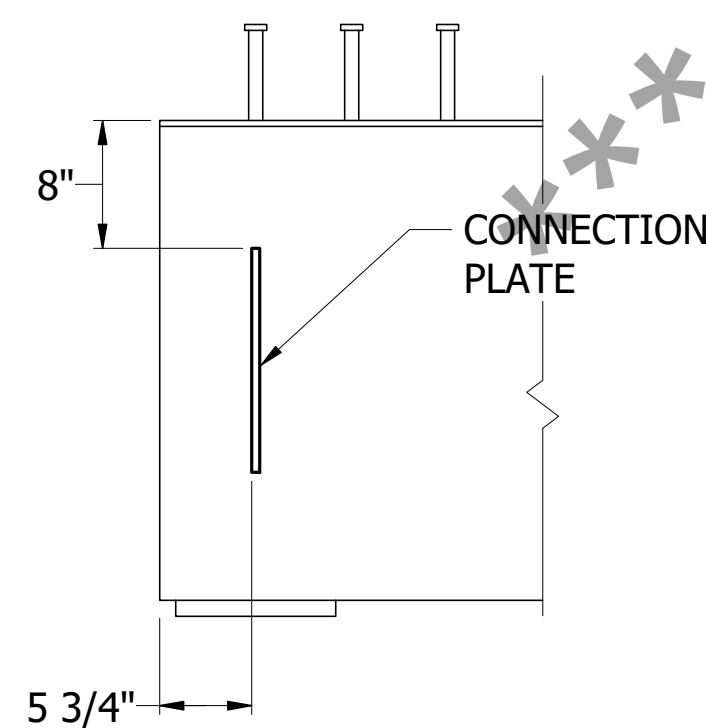
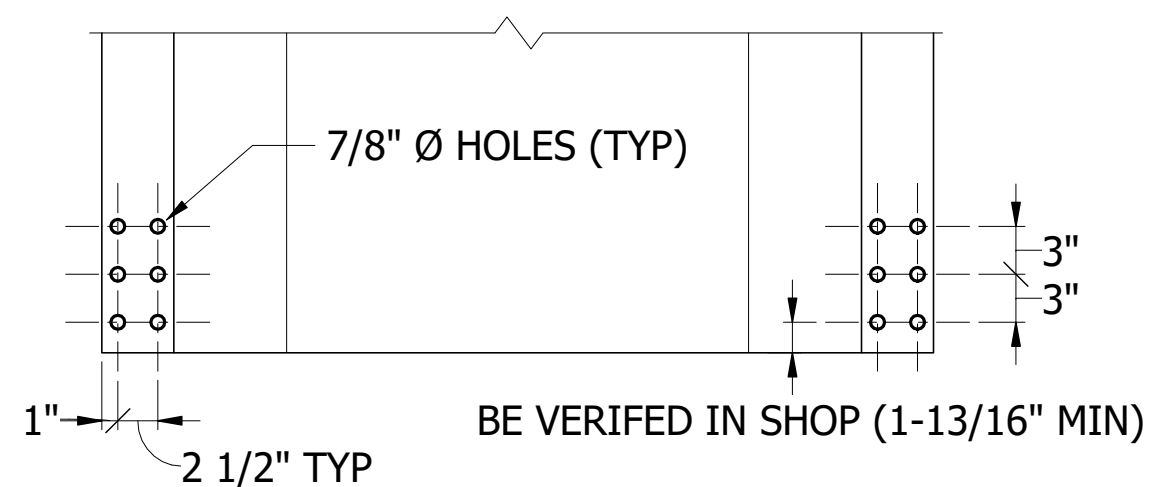
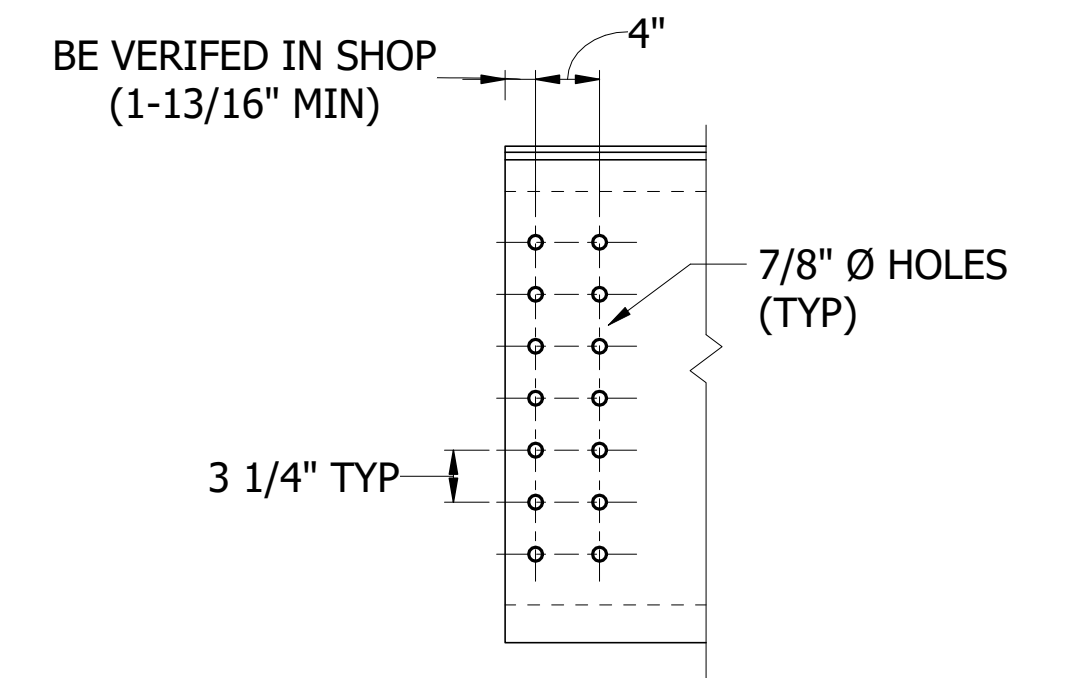
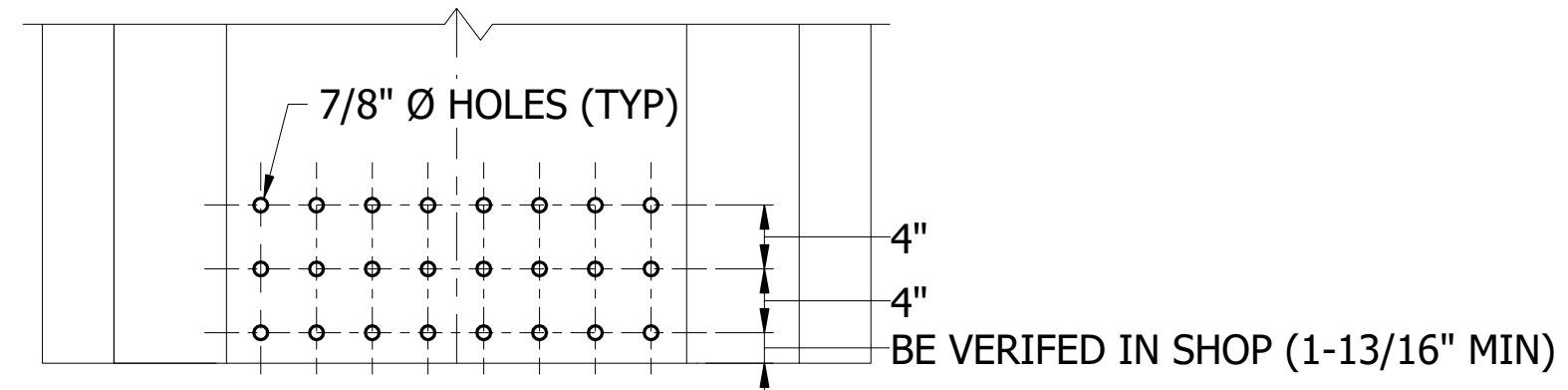
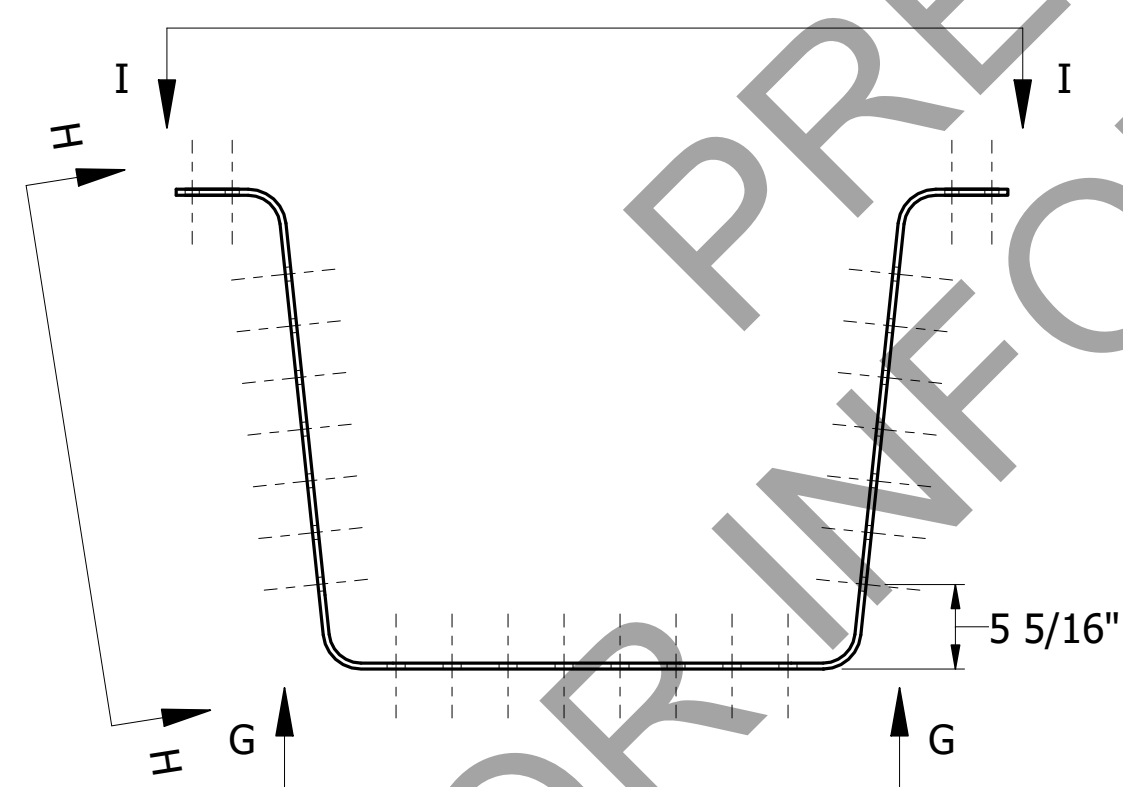
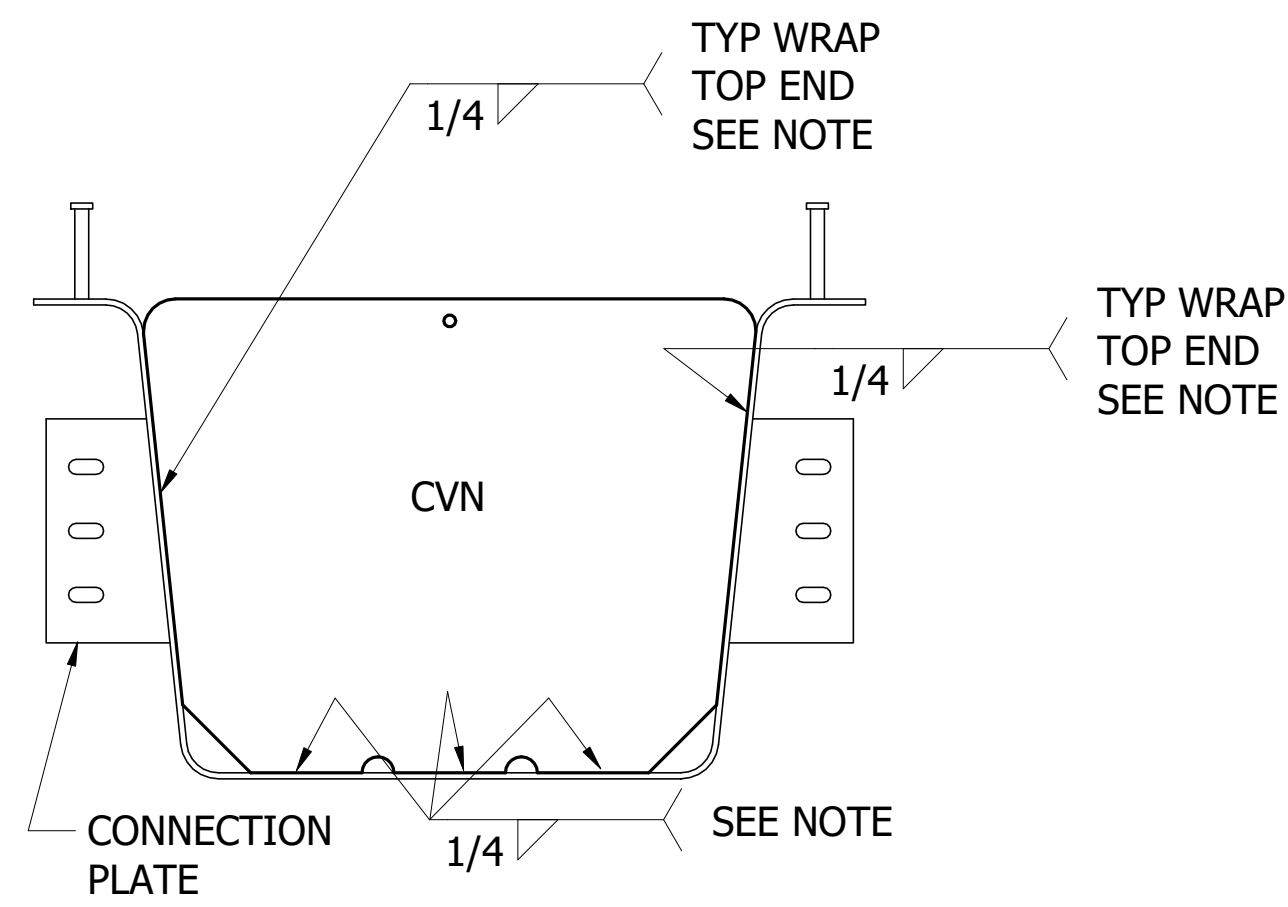
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REV



U-BEAM REQUIRES CHARPY V-NOTCH TESTING. (CVN)



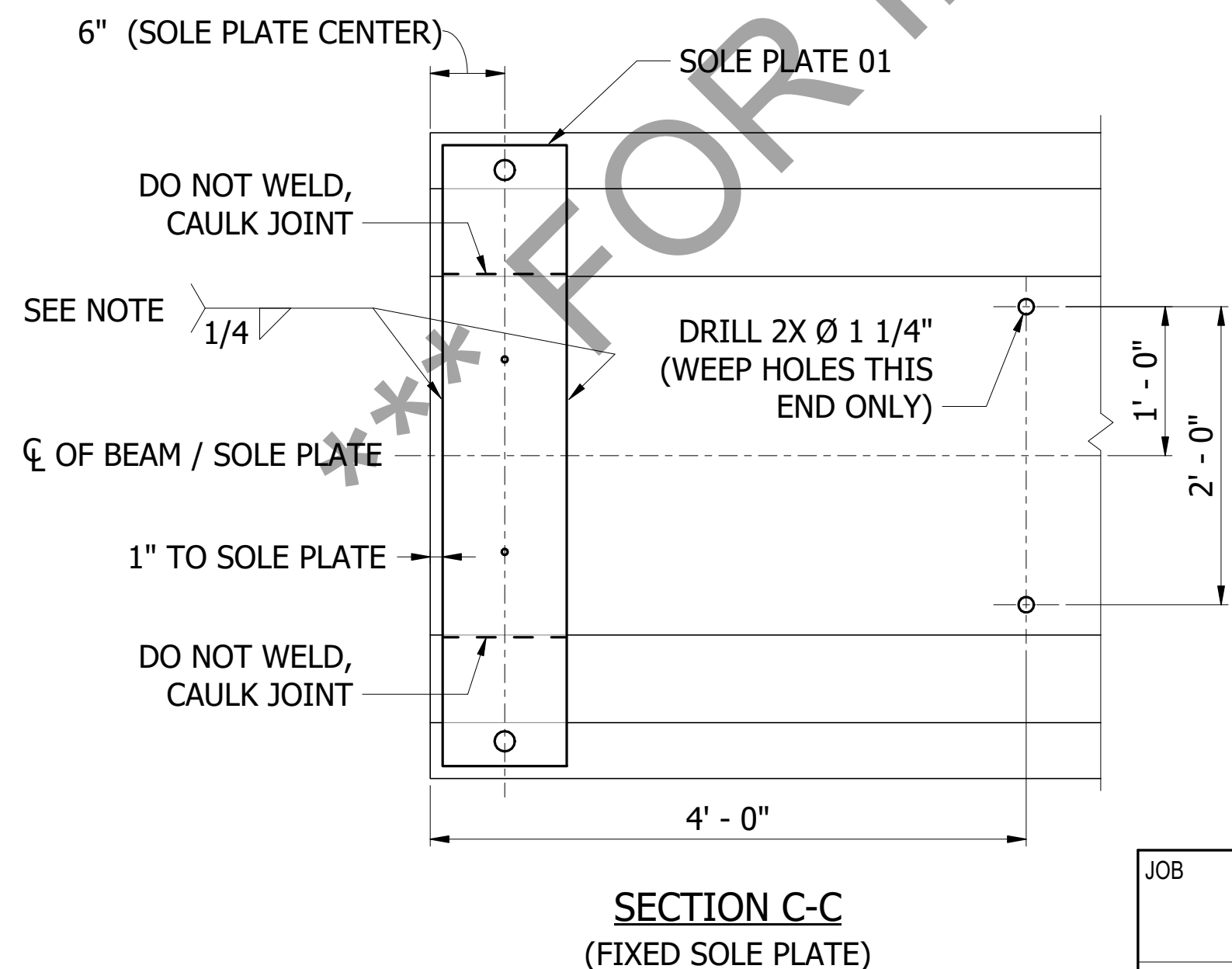
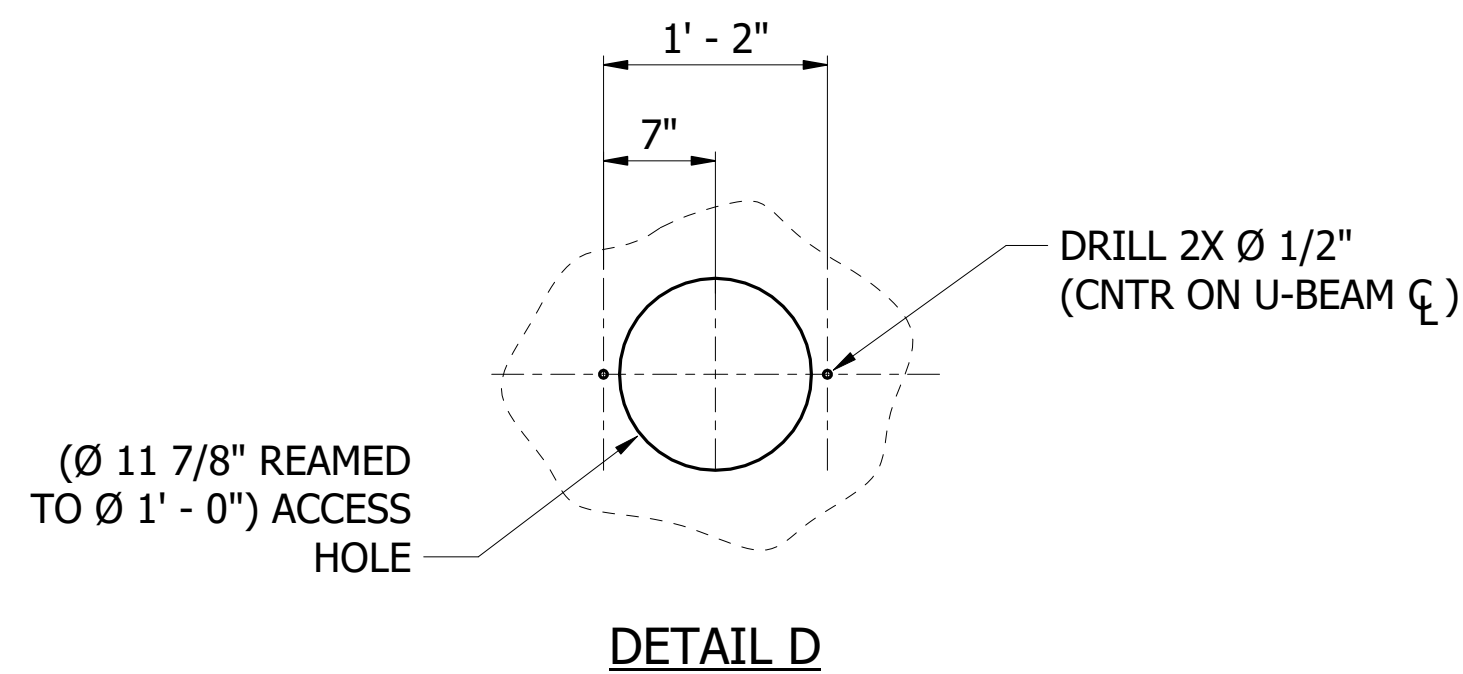
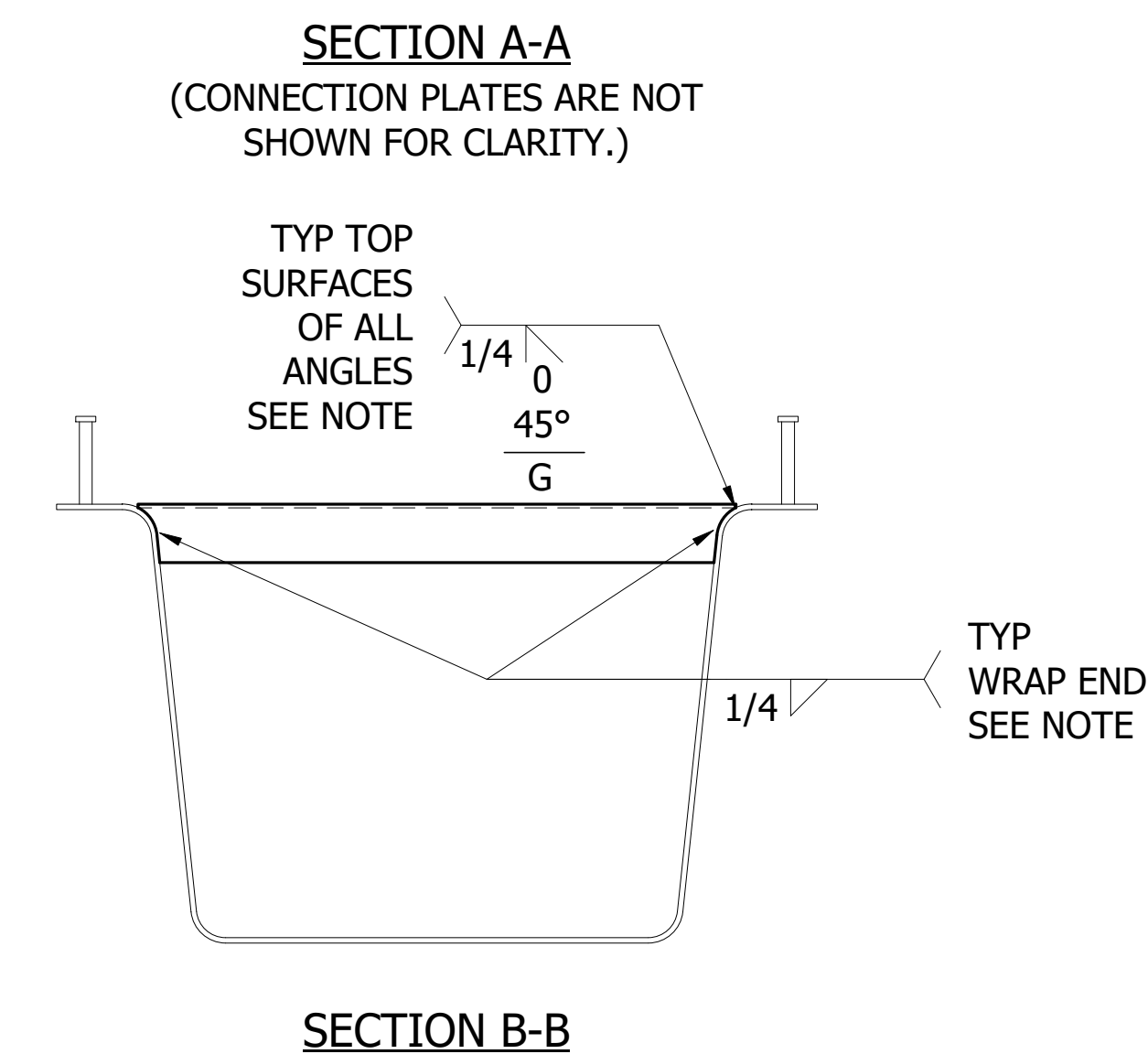
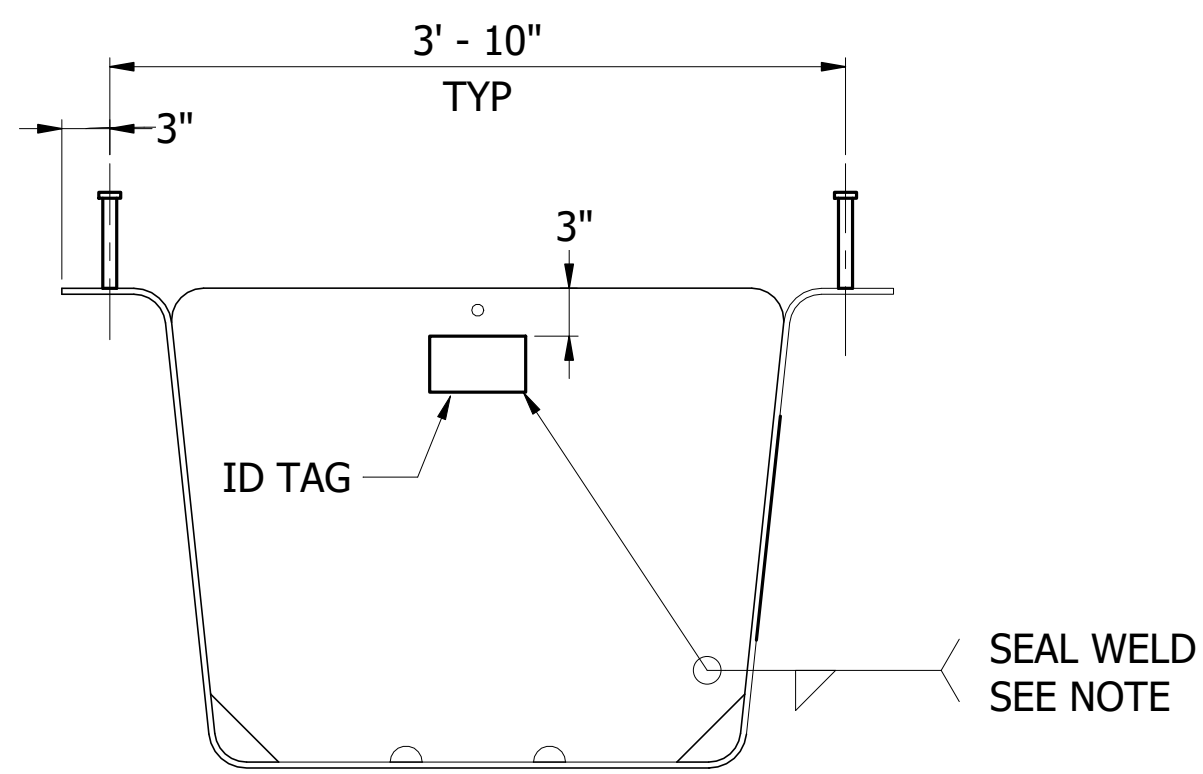
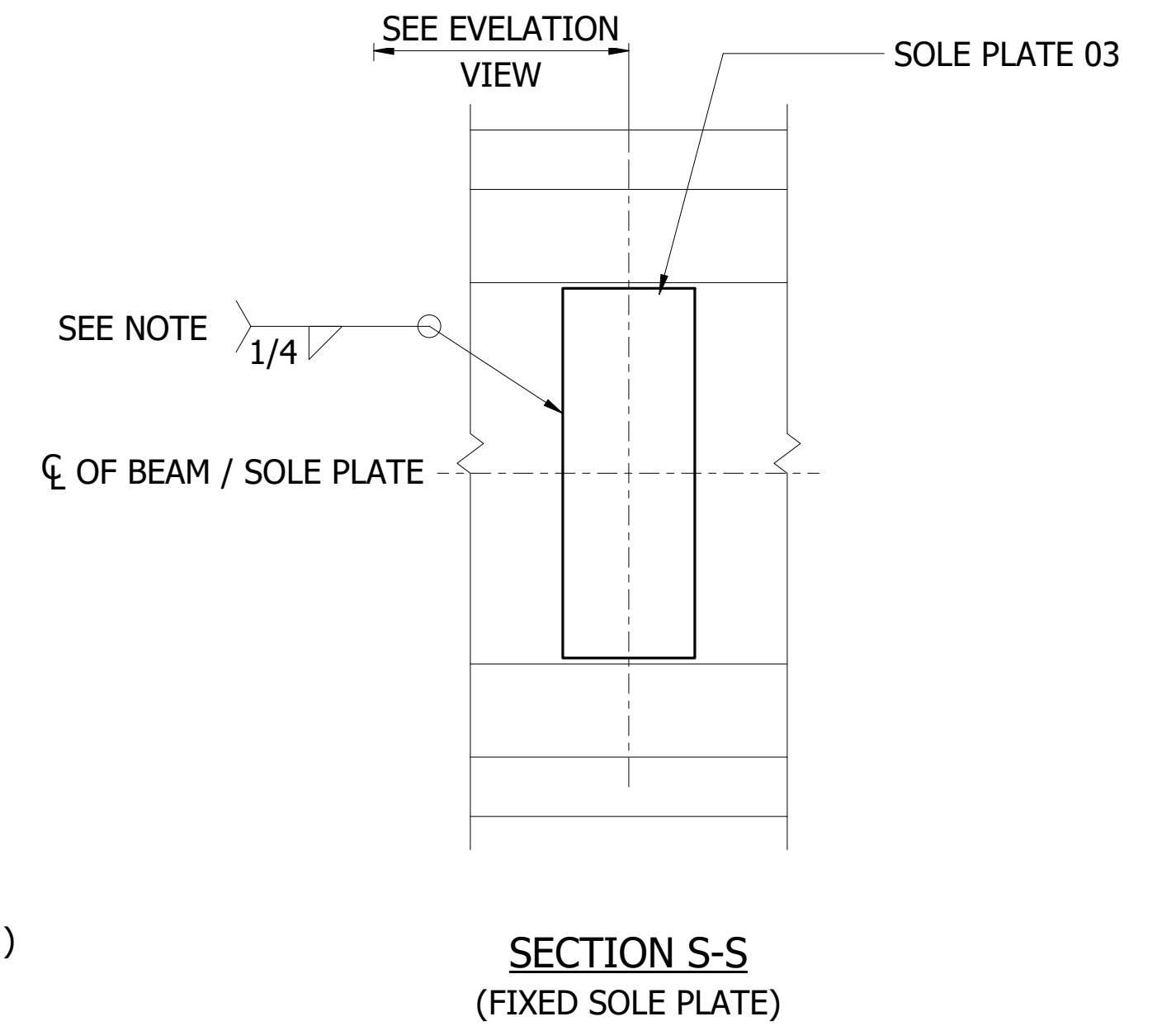
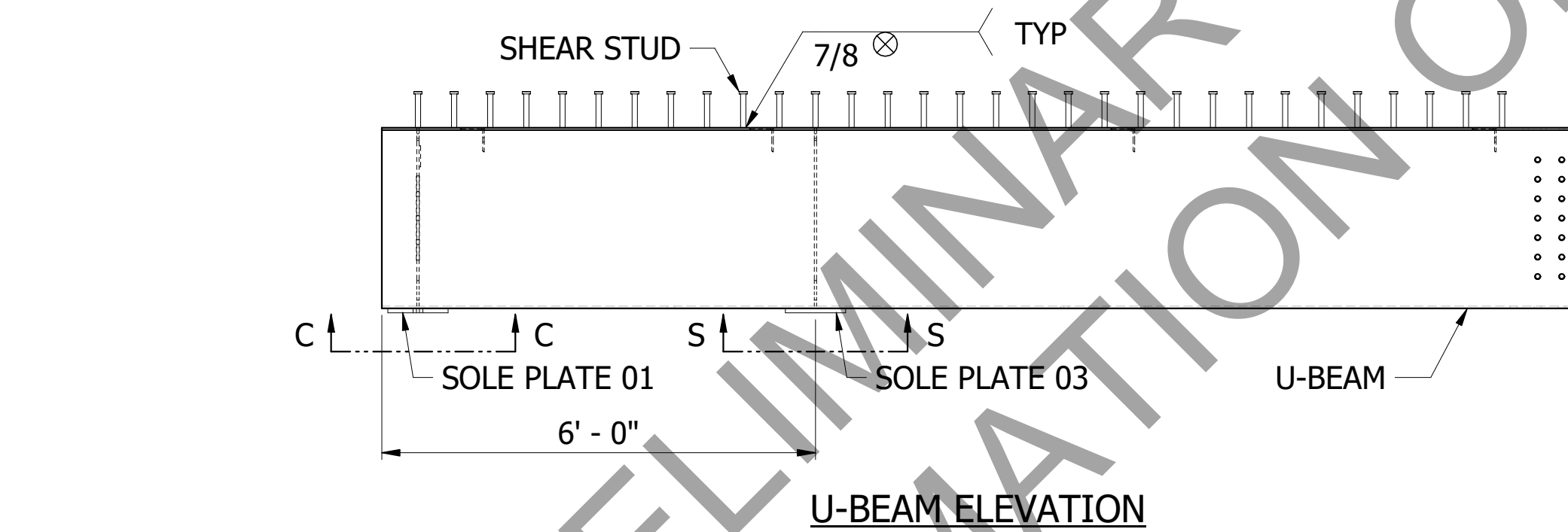
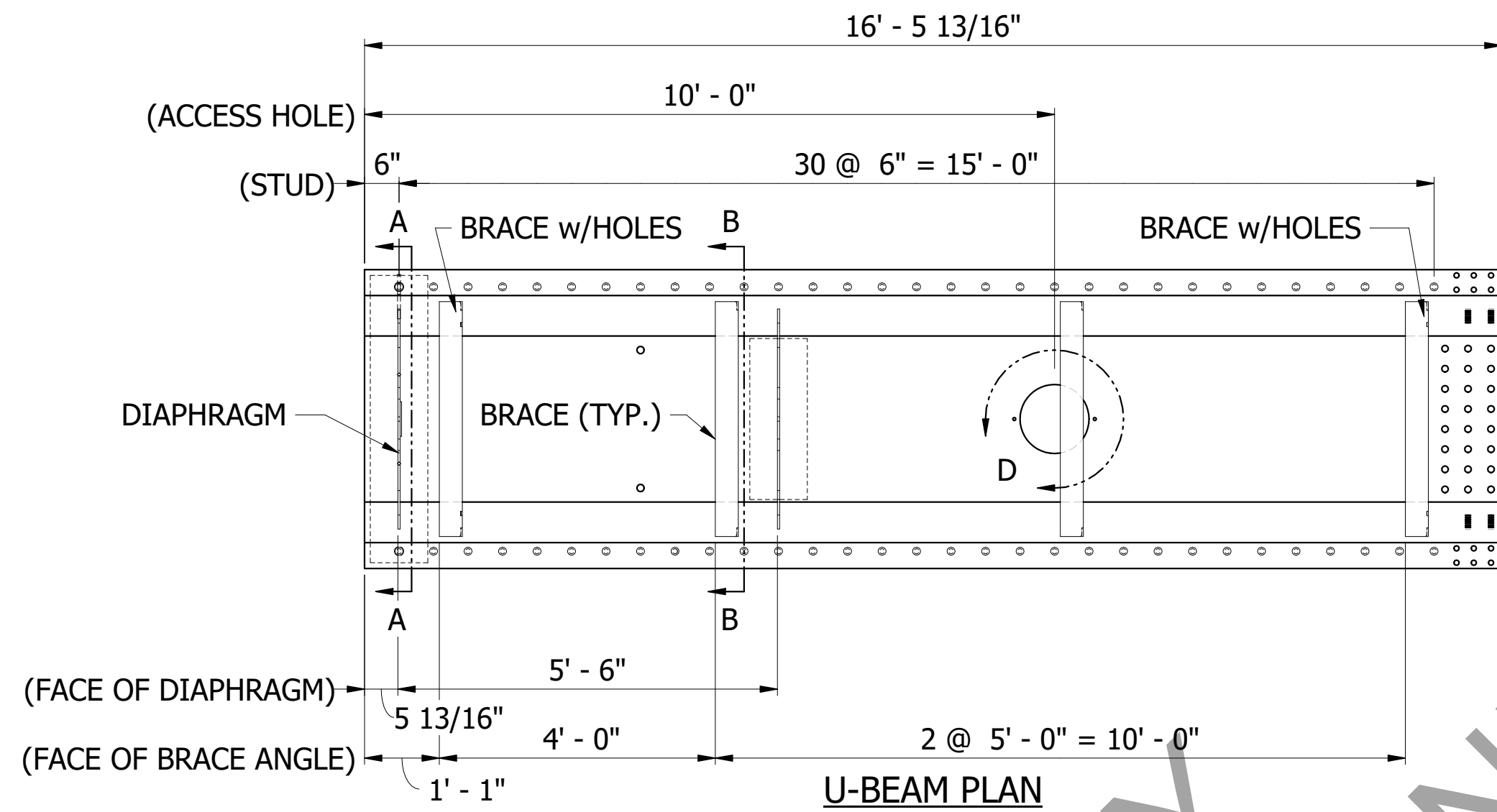
JOB IMPERIAL CO., CA.  
DOGWOOD ROAD OVER CENTRAL MAIN CANAL  
BRIDGE NO: 58C-0226 / COUNTY PROJECT 6222

TITLE G1-3 SHEET 2

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DRAWING NUMBER: 529039P1  
REV



WELD NOTE:  
- SEE WELDING SECTION ON COVER SHEET FOR WELDING SPECIFICATIONS.

NOTE:  
- REFERENCE FRAMING PLAN DRAWING FOR OVERALL GIRDER ASSEMBLY.

LABEL	DESCRIPTION	QTY PER ASSY
U-BEAM	U30 x 16' - 5 13/16" GIRDER	1
BRACE	L4x4x1/4 x 3'-4 7/8"	2
BRACE w/HOLES	L4x4x1/4 x 3'-4 7/8" w/(2) 3/4"Ø HOLES	2
CONNEX PLATE	PL 1/2" x (6 1/4" / 7 3/4") x 1'-2"	1
DIAPHRAGM	PL 3/8" x 2'-5 5/8" x 3'-2 1/4"	2
SHEAR STUD	7/8"Ø x 6" SHEAR STUD	62
SOLE PLATE 01	PL 3/4" x 10" x 4'-2" w/(2) 1 5/8"Ø & (2) 1/2"Ø HOLES	1
SOLE PLATE 03	PL 3/4" x 10" x 2'-4"	1
TAG	ID TAG	1

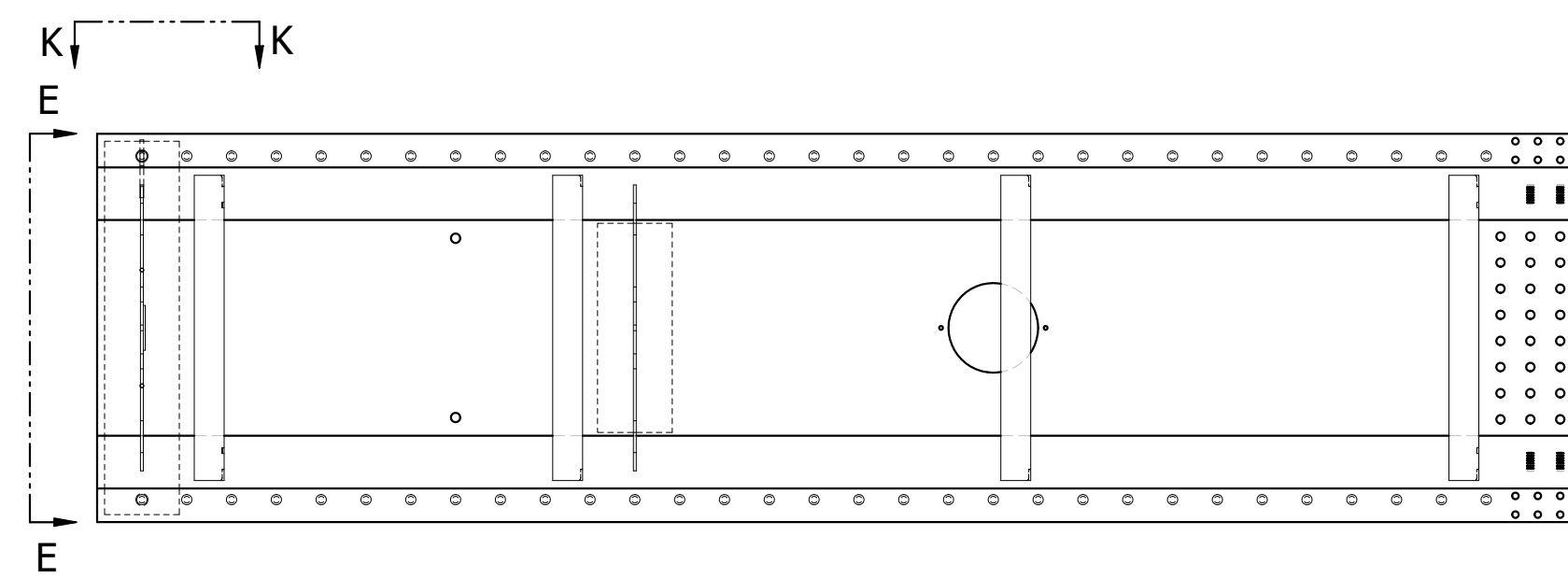
JOB IMPERIAL CO., CA.  
DOGWOOD ROAD OVER CENTRAL MAIN CANAL  
BRIDGE NO: 58C-0226 / COUNTY PROJECT 6222

TITLE H1-1 SHEET 1

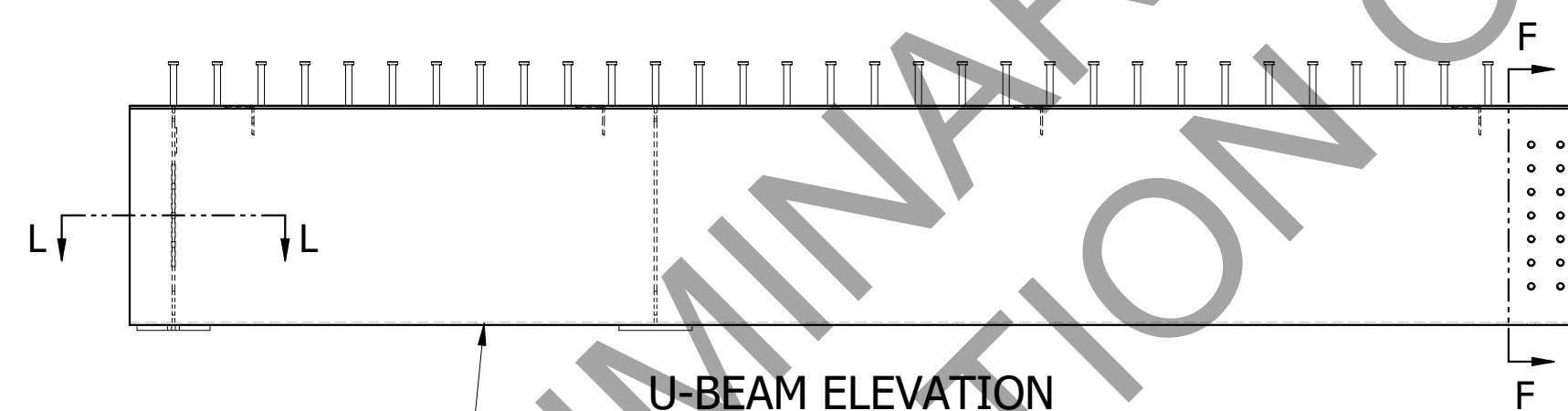
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ORDER NUMBER: 529039-P1  
PAGE NUMBER: 45 OF 53  
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REV

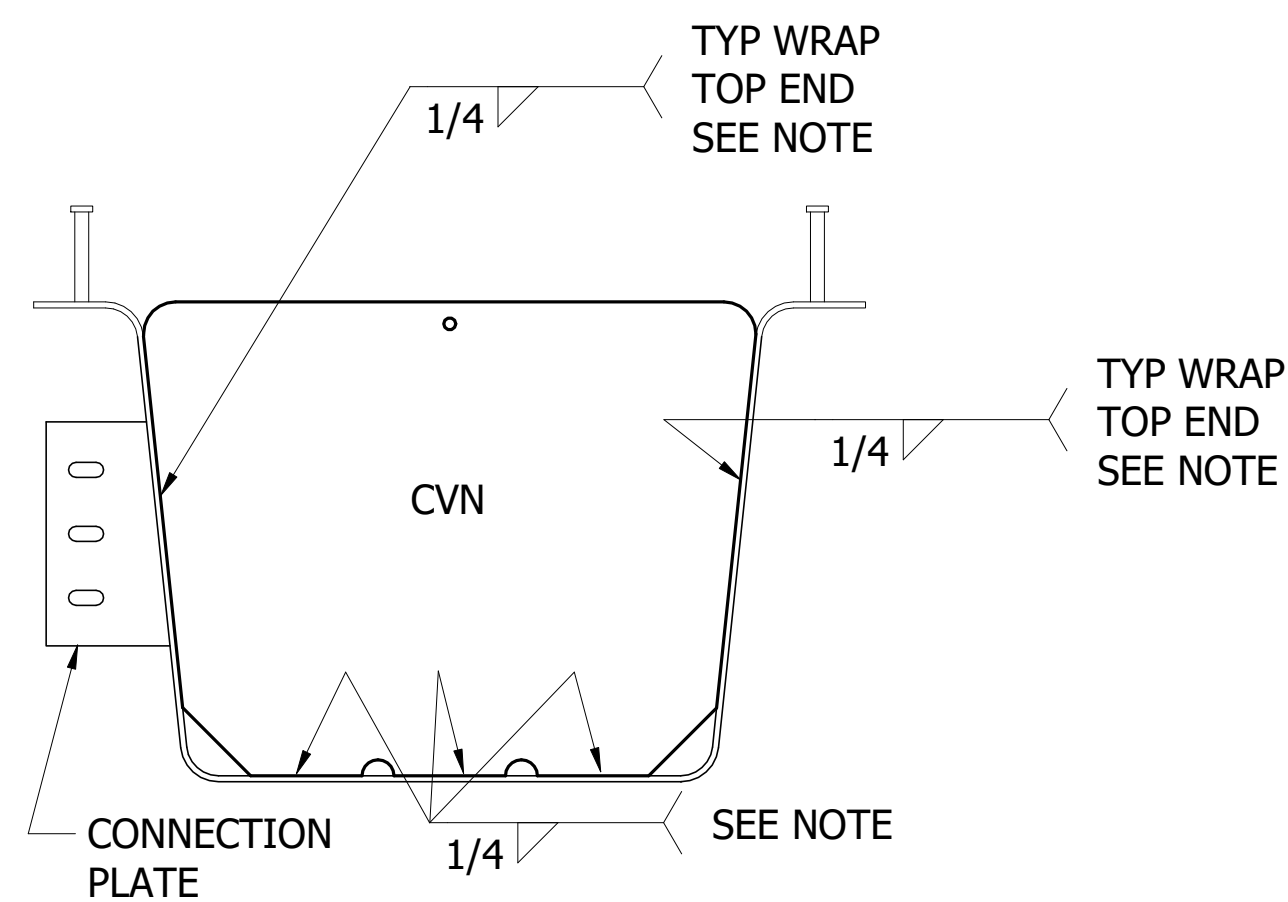


U-BEAM PLAN



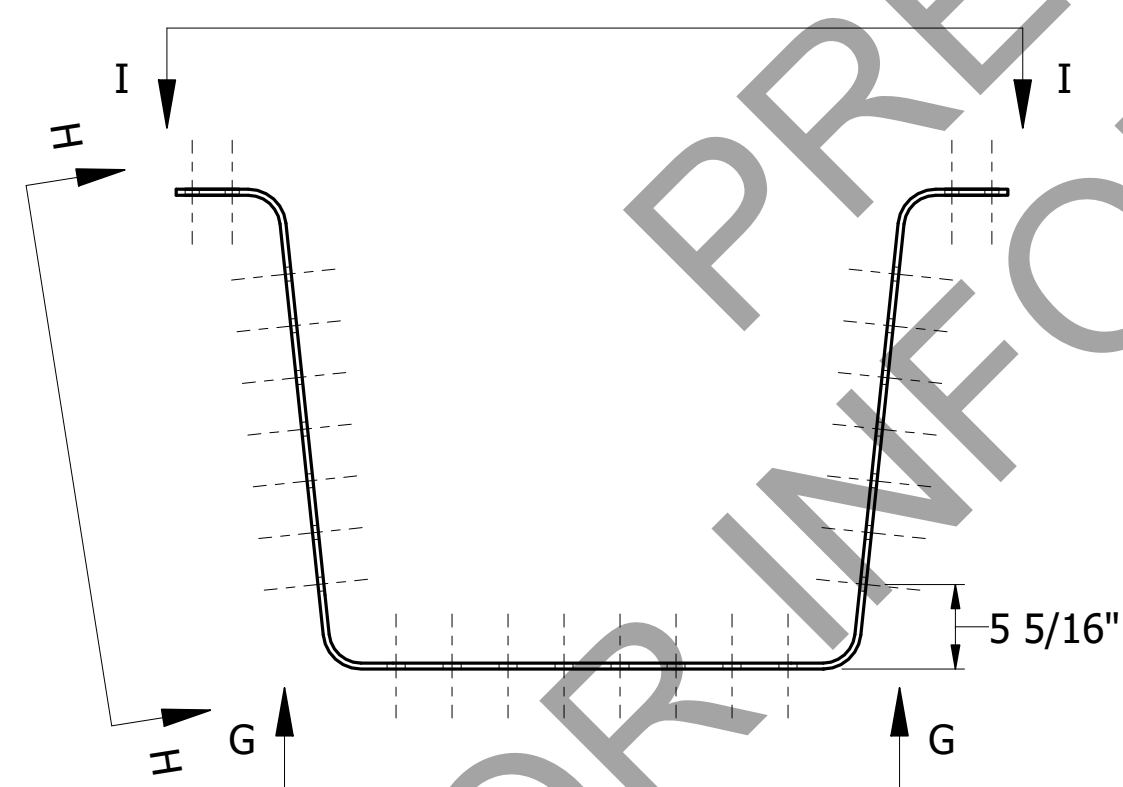
U-BEAM ELEVATION

U-BEAM REQUIRES CHARPY V-NOTCH TESTING. (CVN)

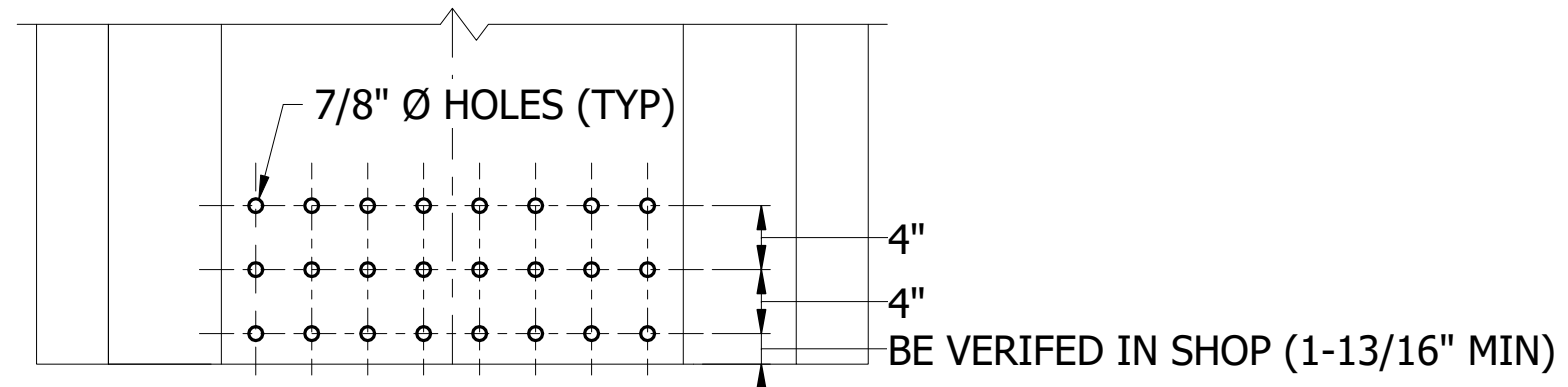


SECTION E-E

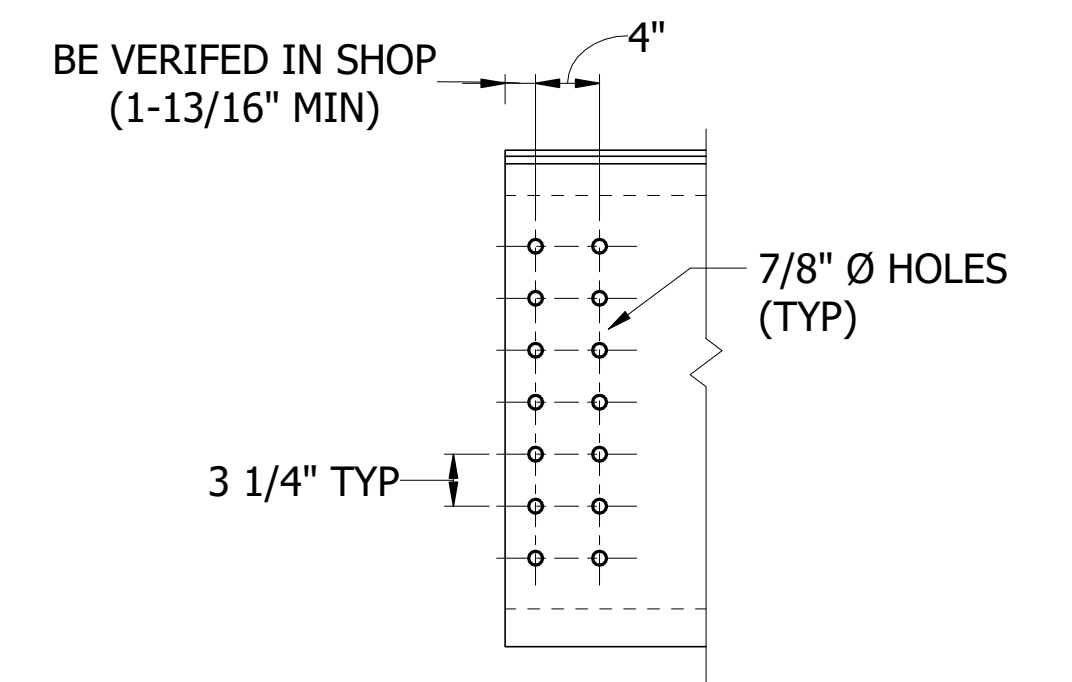
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(LOOKING NORMAL TO DIAPHRAGM  
AND CONNECTION PLATE)



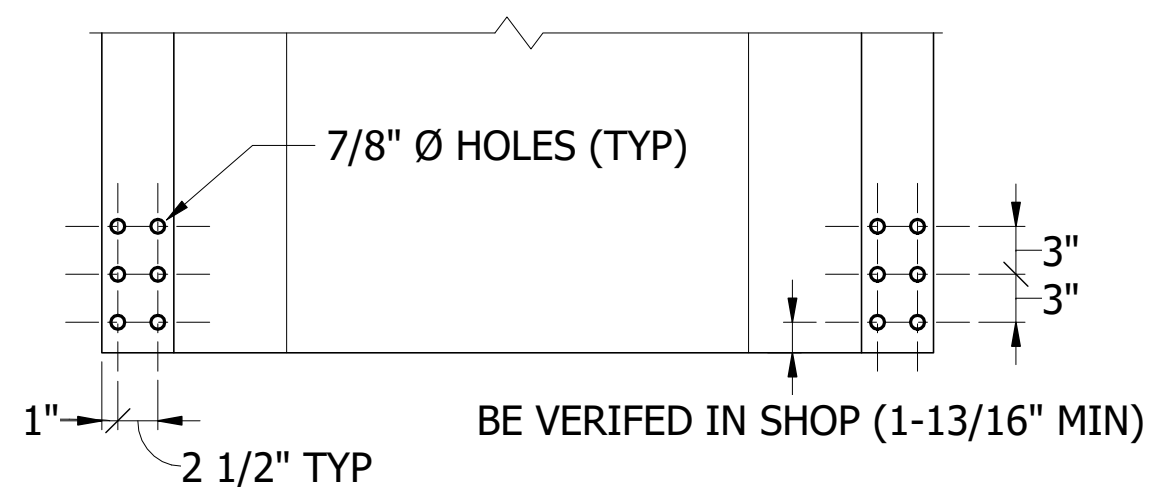
SECTION F-F



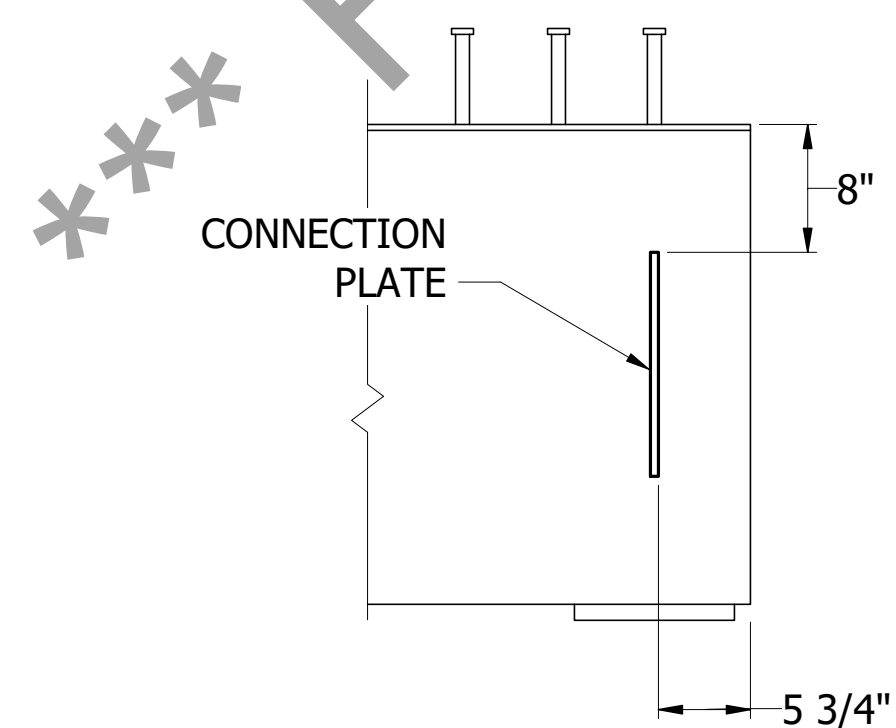
SECTION G-G



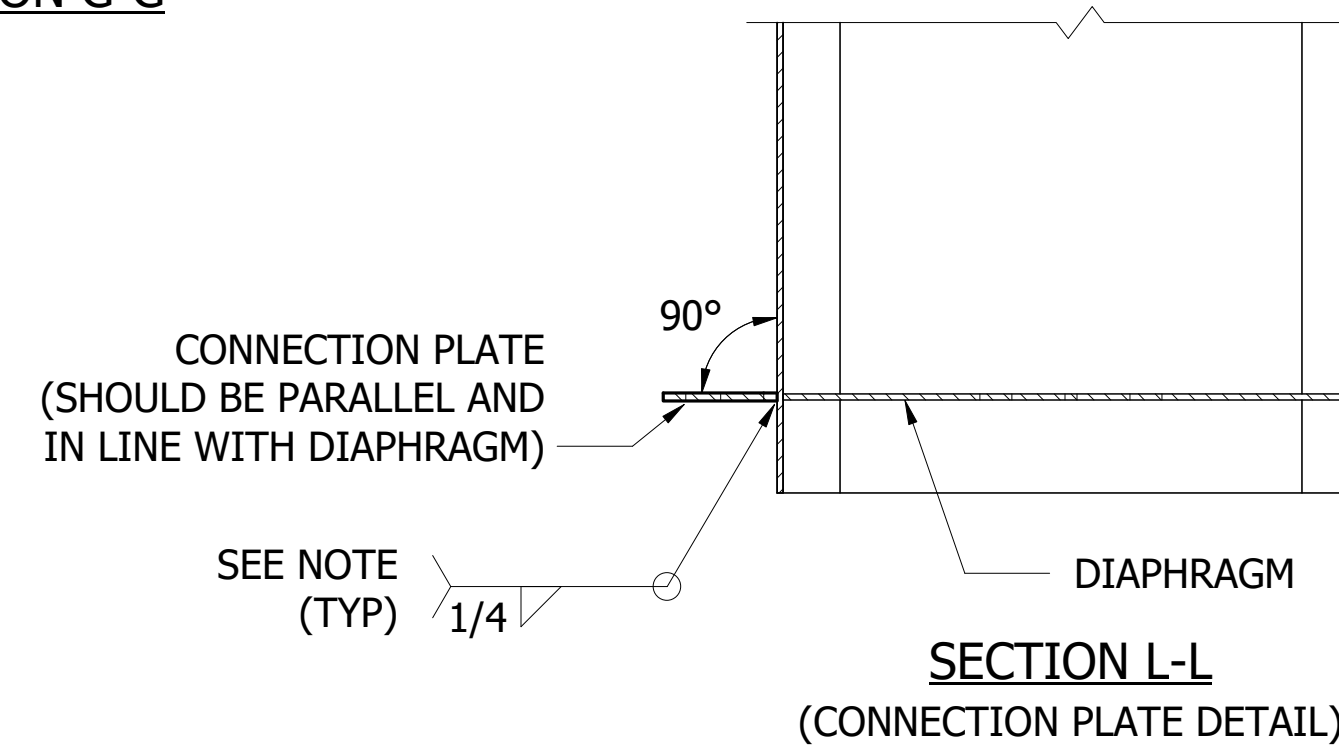
SECTION H-H



SECTION I-I



SECTION K-K



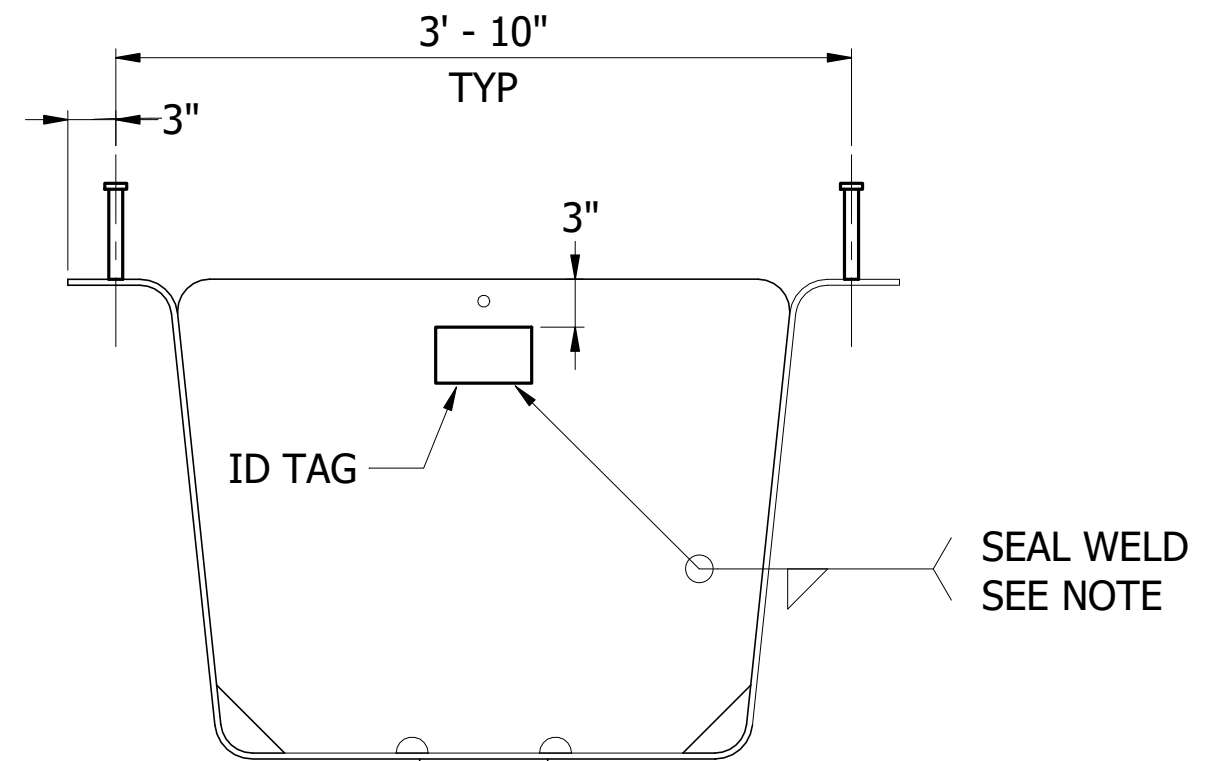
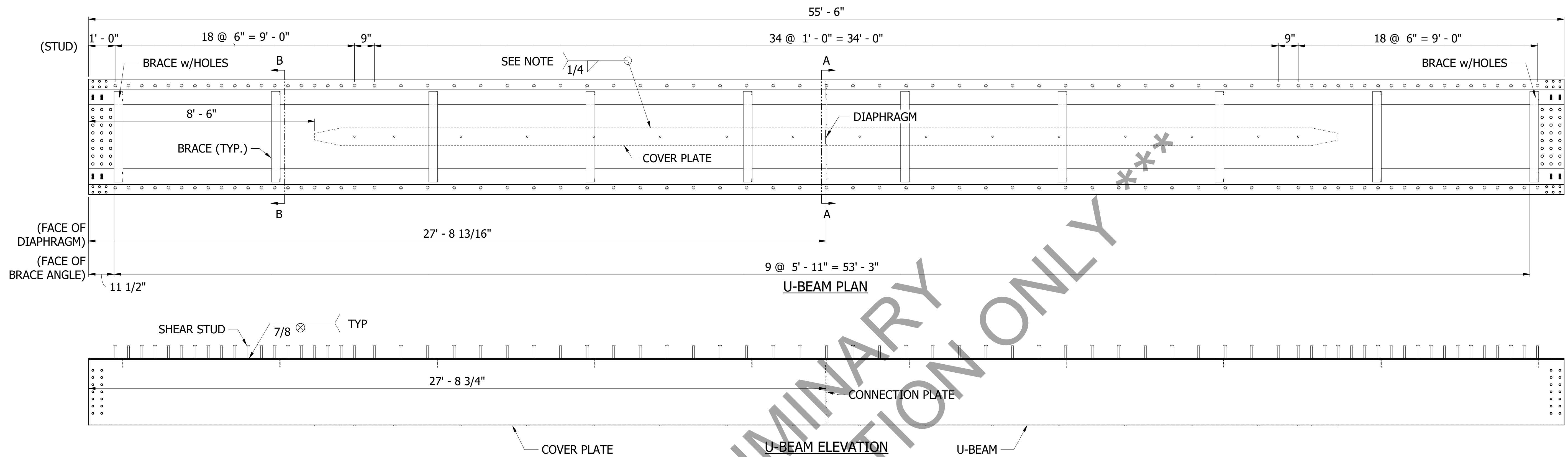
SECTION L-L  
(CONNECTION PLATE DETAIL)

JOB	IMPERIAL CO., CA. DOGWOOD ROAD OVER CENTRAL MAIN CANAL BRIDGE NO: 58C-0226 / COUNTY PROJECT 6222
TITLE	H1-1 SHEET 2

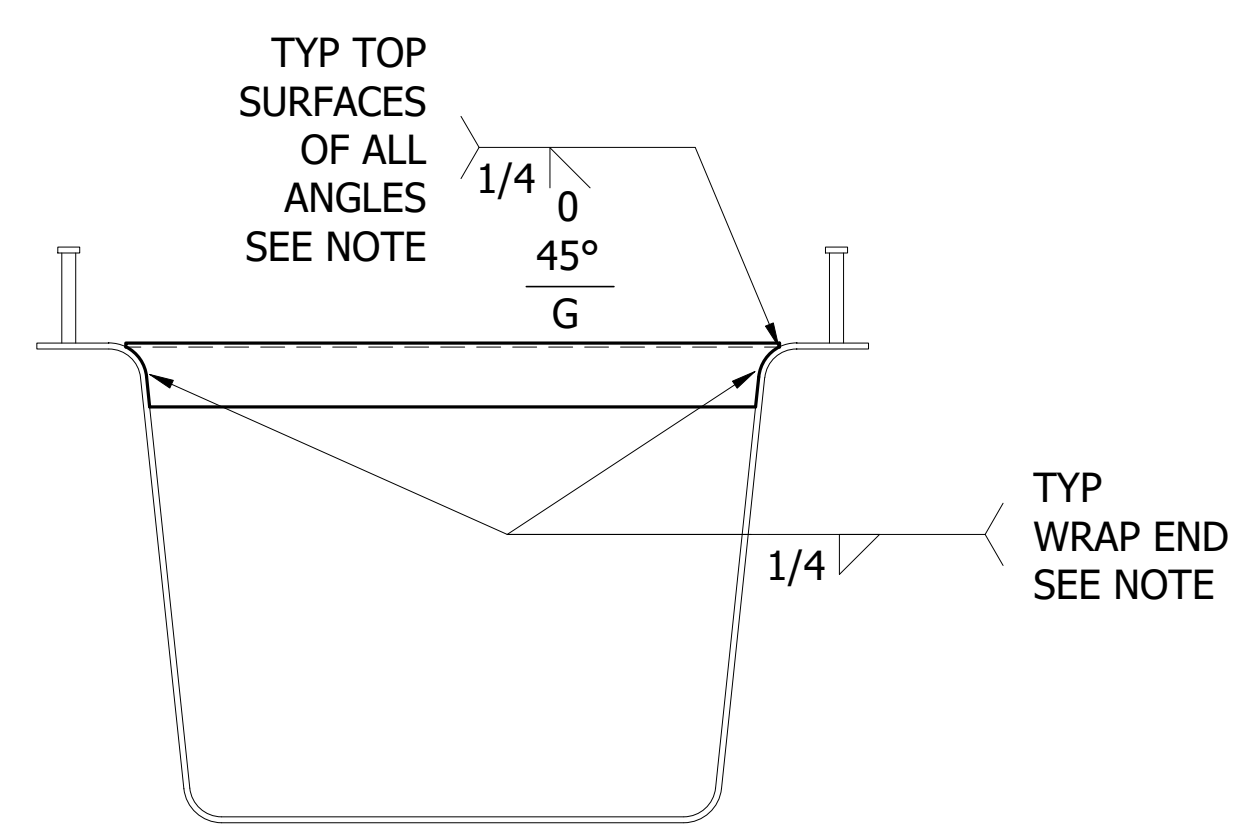
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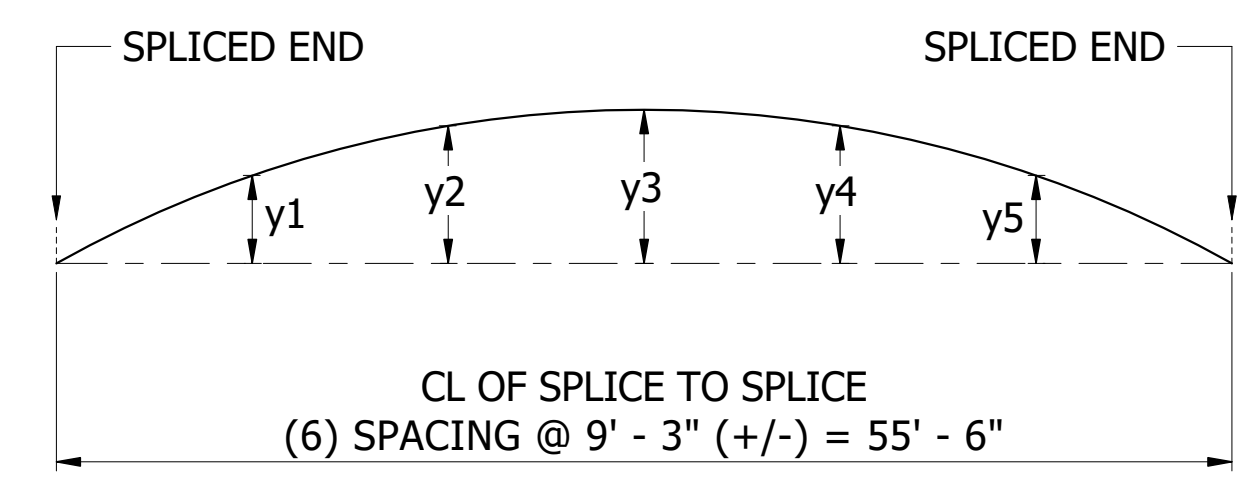
ORDER NUMBER:	529039-P1
PAGE NUMBER:	46 OF 53
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**SECTION A-A**  
(CONNECTION PLATES ARE NOT SHOWN FOR CLARITY.)



**SECTION B-B**



**CAMBER DIAGRAM**

CAMBER ORDINATES	U-BEAM H1-2
y1	1 7/8"
y2	2 15/16"
y3	3 5/16"
y4	2 15/16"
y5	1 7/8"

**WELD NOTE:**  
- SEE WELDING SECTION ON COVER SHEET FOR WELDING SPECIFICATIONS.

**NOTE:**  
- REFERENCE FRAMING PLAN DRAWING FOR OVERALL GIRDER ASSEMBLY.

LABEL	DESCRIPTION	QTY PER ASSY
U-BEAM	U30 x 55' - 6" GIRDER	1
BRACE	L4x4x1/4 x 3'-4 7/8"	8
BRACE w/HOLES	L4x4x1/4 x 3'-4 7/8" w/(2) 3/4"Ø HOLES	2
CONNEX PLATE	PL 1/2" x (6 1/4" / 7 3/4") x 1'-2"	1
COVER PLATE	PL 3/8" x 8" x 38' - 6"	1
DIAPHRAGM	PL 3/8" x 2'-5 5/8" x 3'-2 1/4"	1
SHEAR STUD	7/8"Ø x 6" SHEAR STUD	146
TAG	ID TAG	1

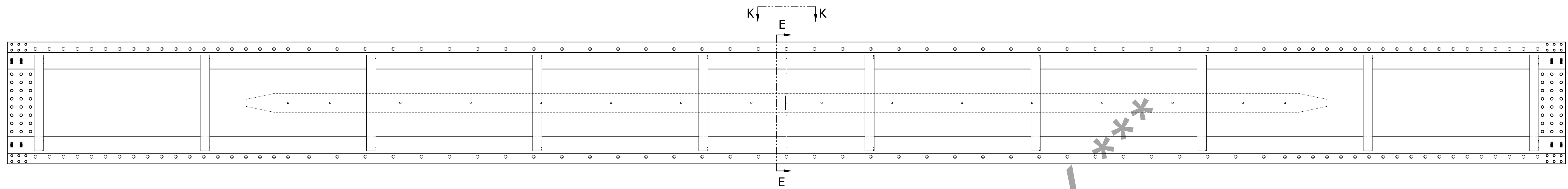
JOB IMPERIAL CO., CA.  
DOGWOOD ROAD OVER CENTRAL MAIN CANAL  
BRIDGE NO: 58C-0226 / COUNTY PROJECT 6222

TITLE H1-2 SHEET 1

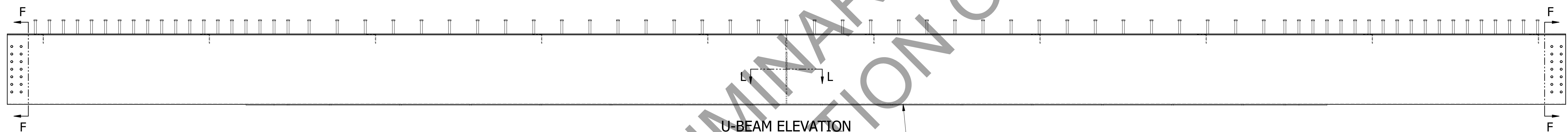
THE DESIGN AND DETAILS CONTAINED IN THESE DRAWINGS ARE BASED ON VALMONT® INDUSTRIES, INC. STANDARD SPECIFICATIONS AND MANUFACTURING PROCESS. THESE DRAWINGS ARE FURNISHED FOR INFORMATION ONLY AND ARE NOT PROJECT SPECIFIC DESIGNS.



ORDER NUMBER: 529039-P1  
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REV

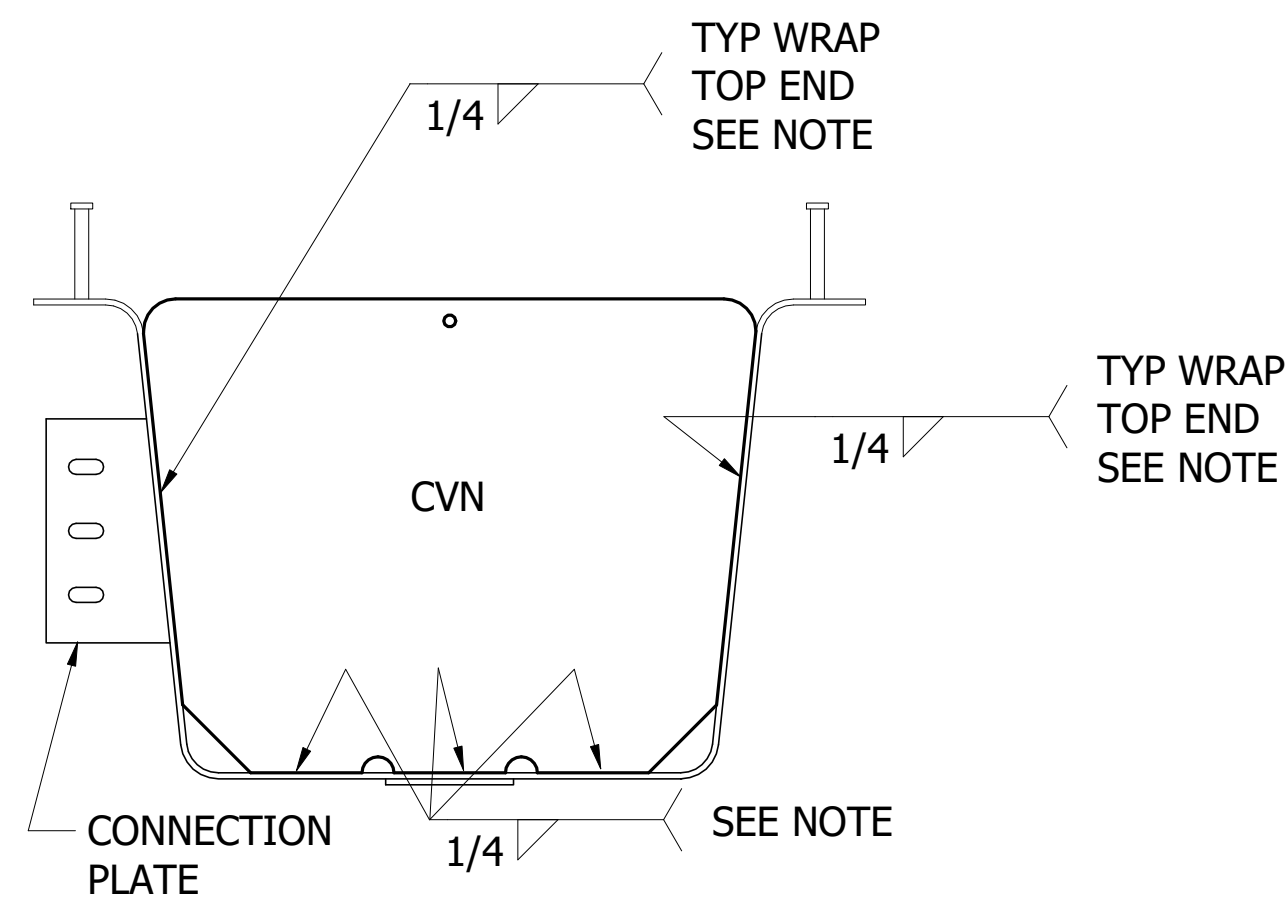


U-BEAM PLAN



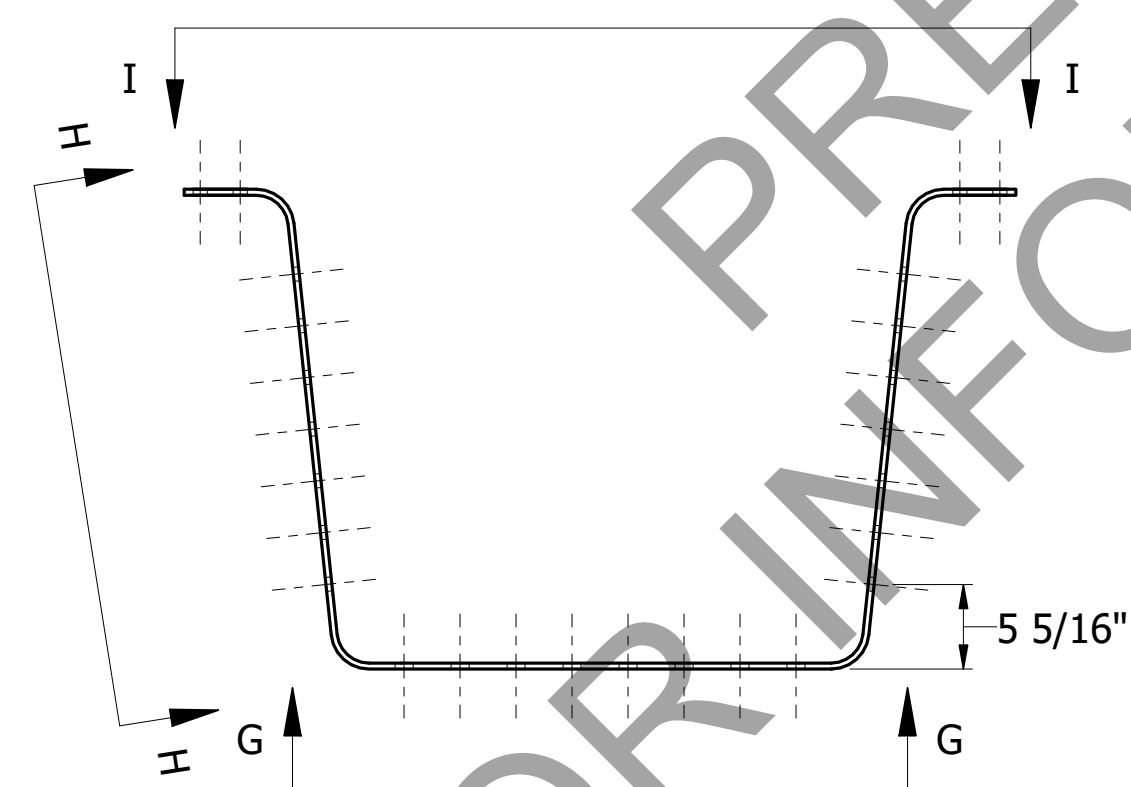
U-BEAM ELEVATION

U-BEAM REQUIRES CHARPY V-NOTCH TESTING. (CVN)

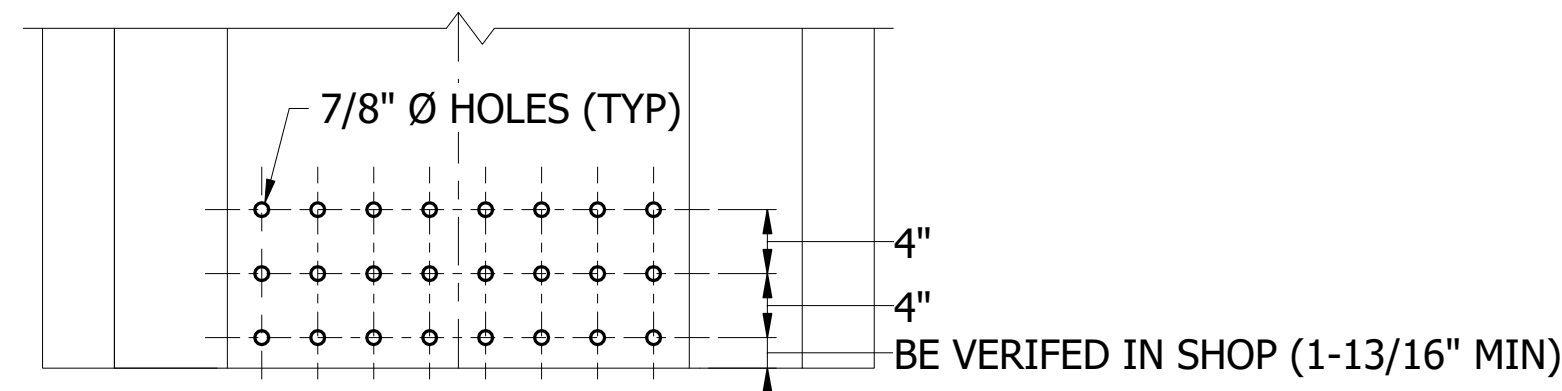


SECTION E-E

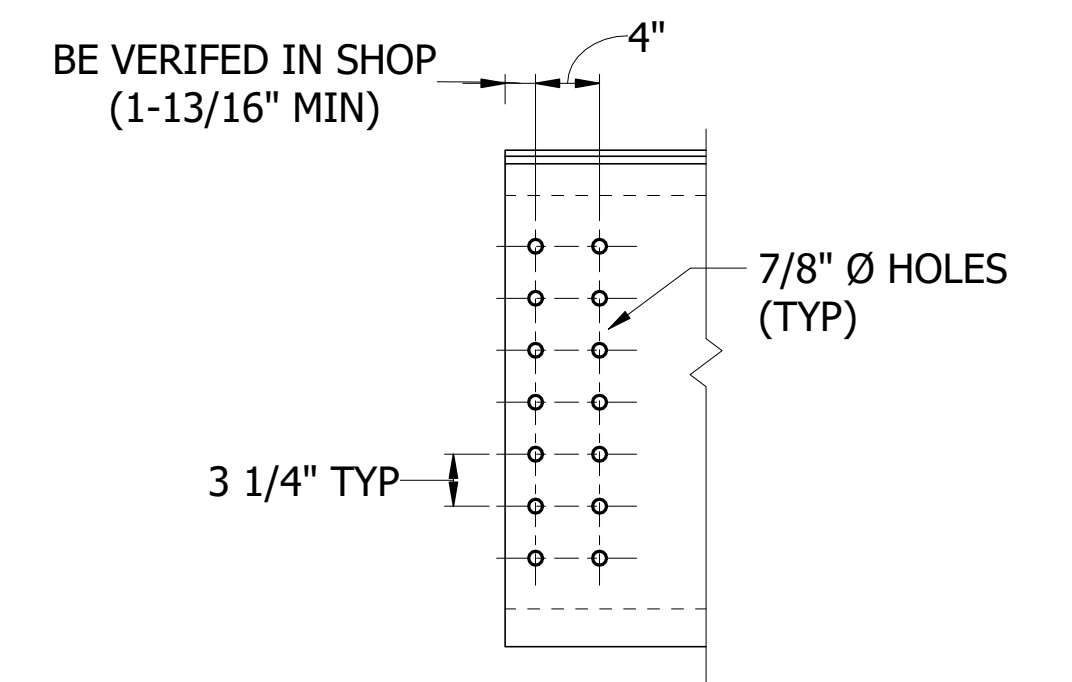
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(LOOKING NORMAL TO DIAPHRAGM  
AND CONNECTION PLATE)



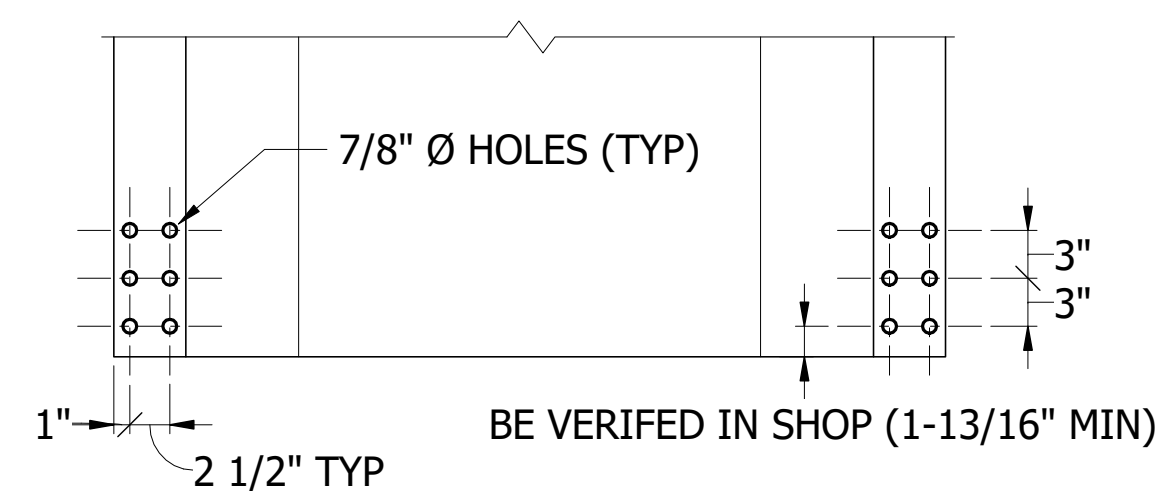
SECTION F-F



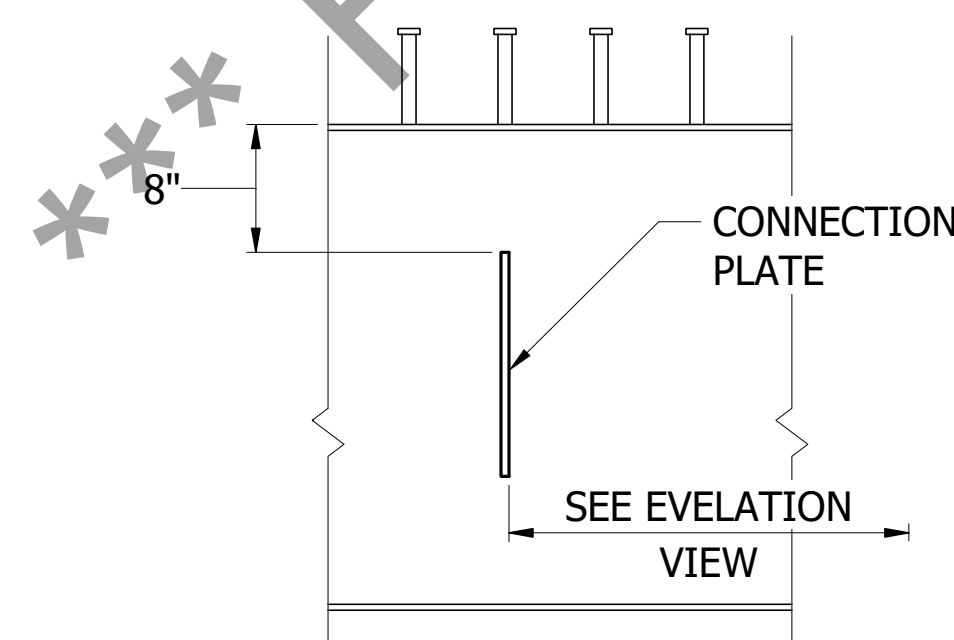
SECTION G-G



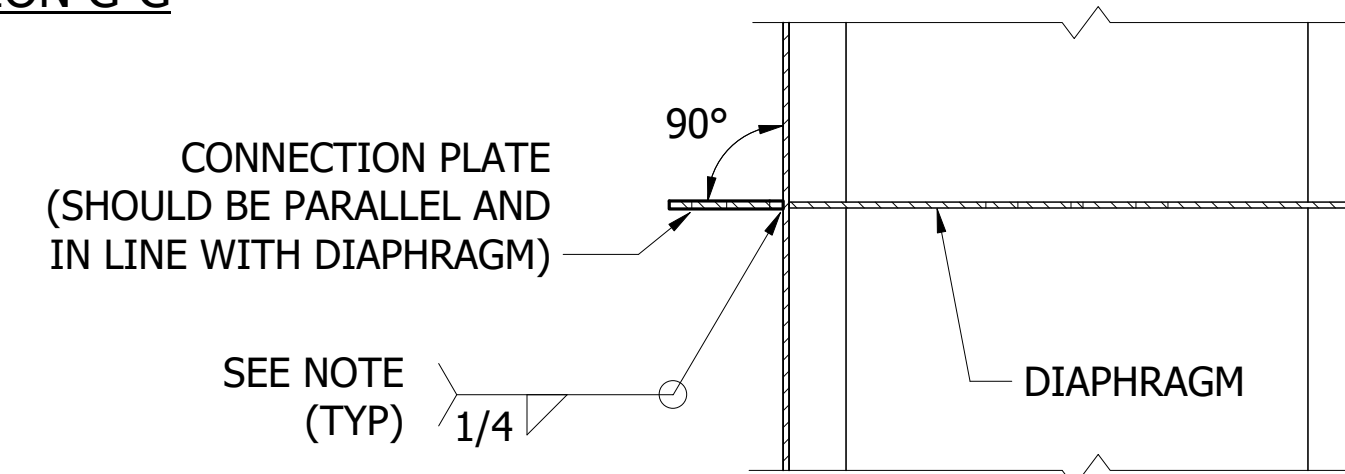
SECTION H-H



SECTION I-I



SECTION K-K



SECTION L-L  
(CONNECTION PLATE DETAIL)

JOB IMPERIAL CO., CA.  
DOGWOOD ROAD OVER CENTRAL MAIN CANAL  
BRIDGE NO: 58C-0226 / COUNTY PROJECT 6222

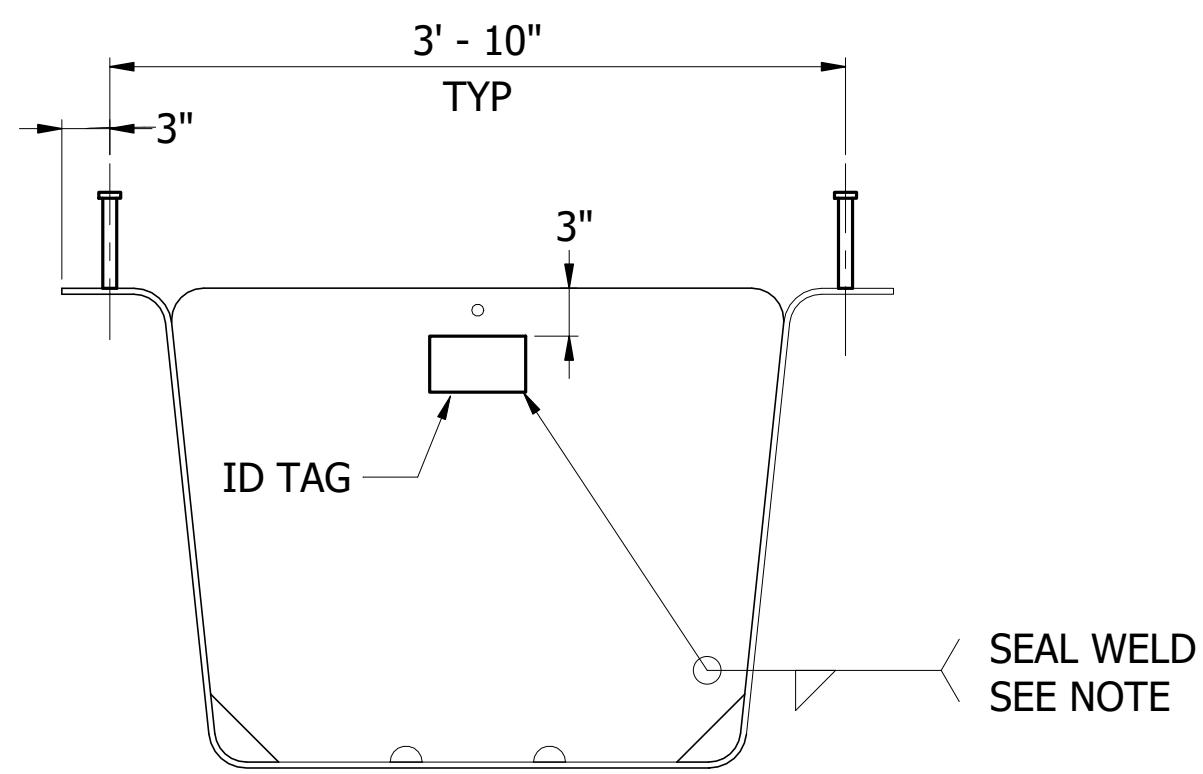
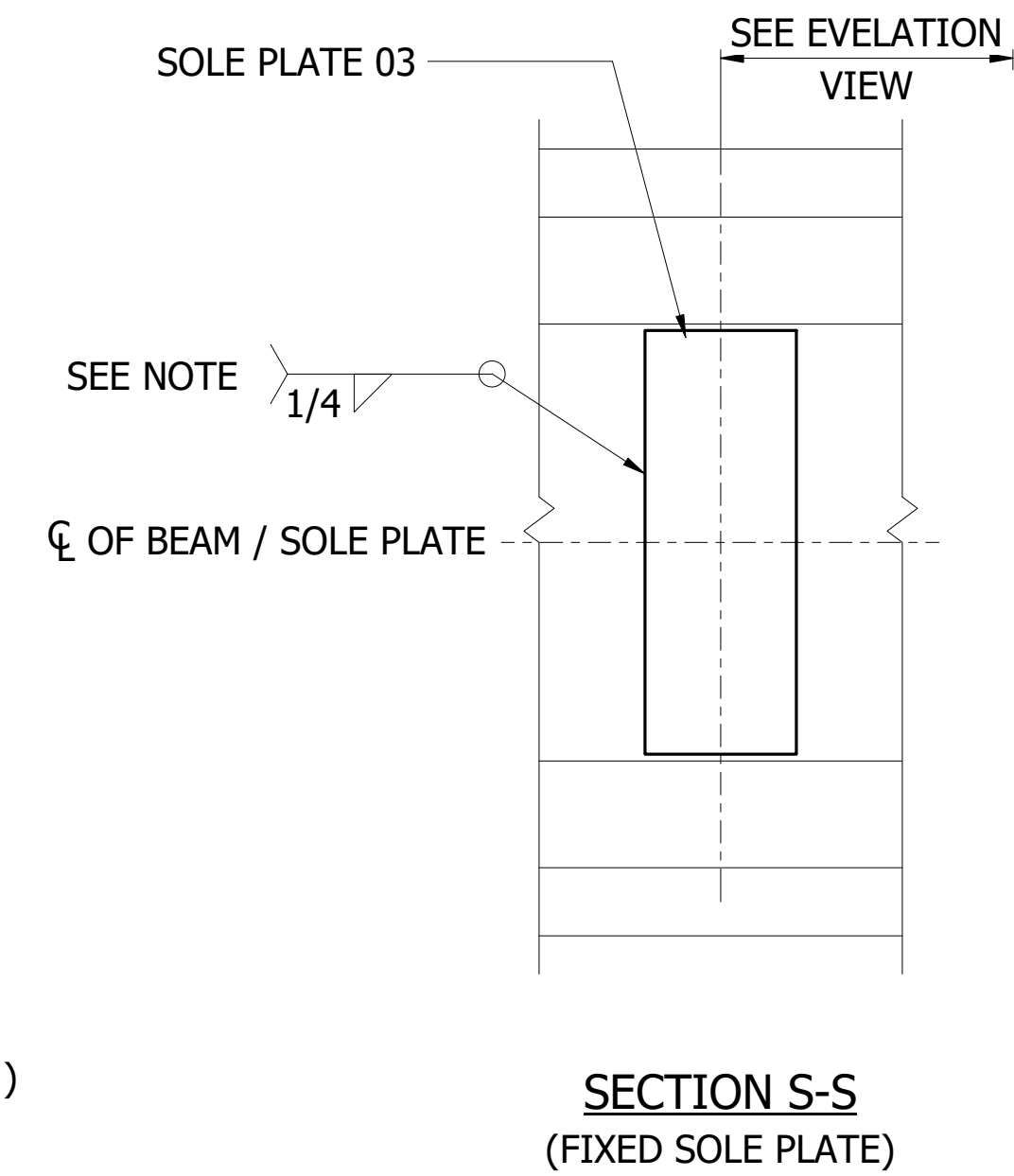
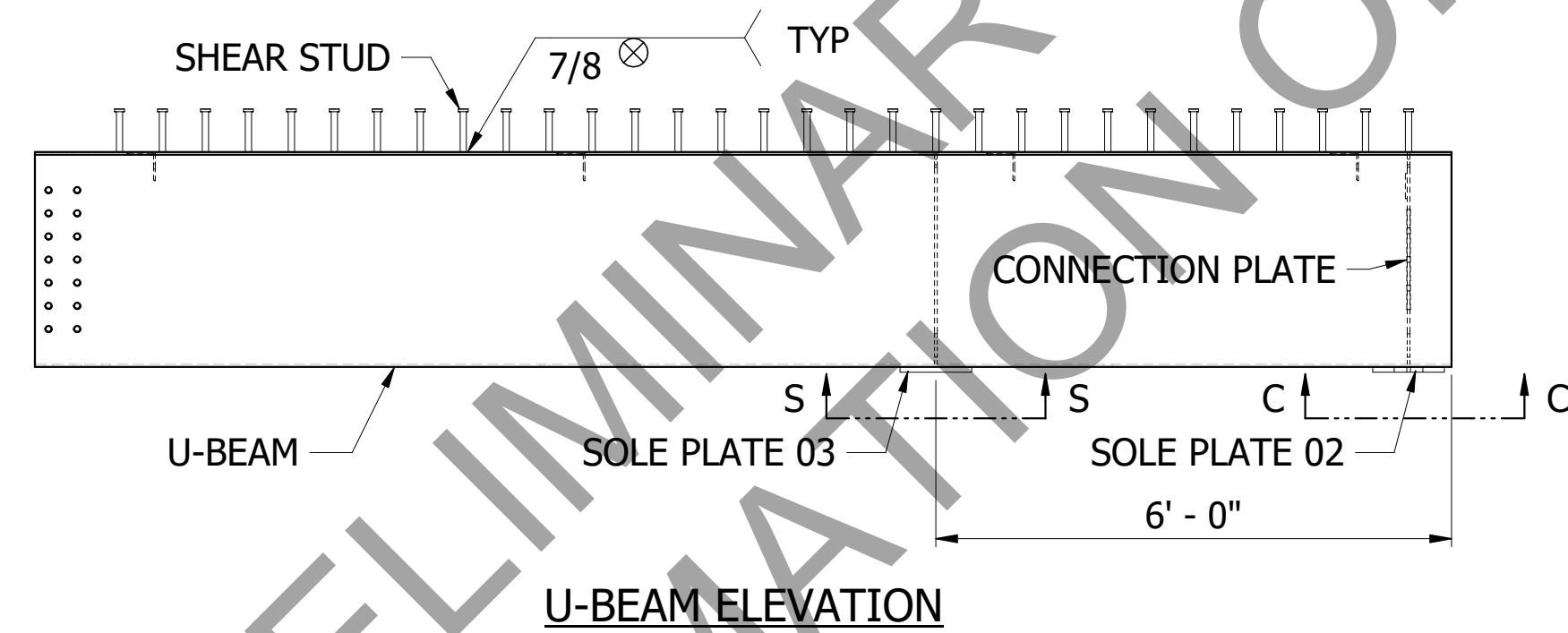
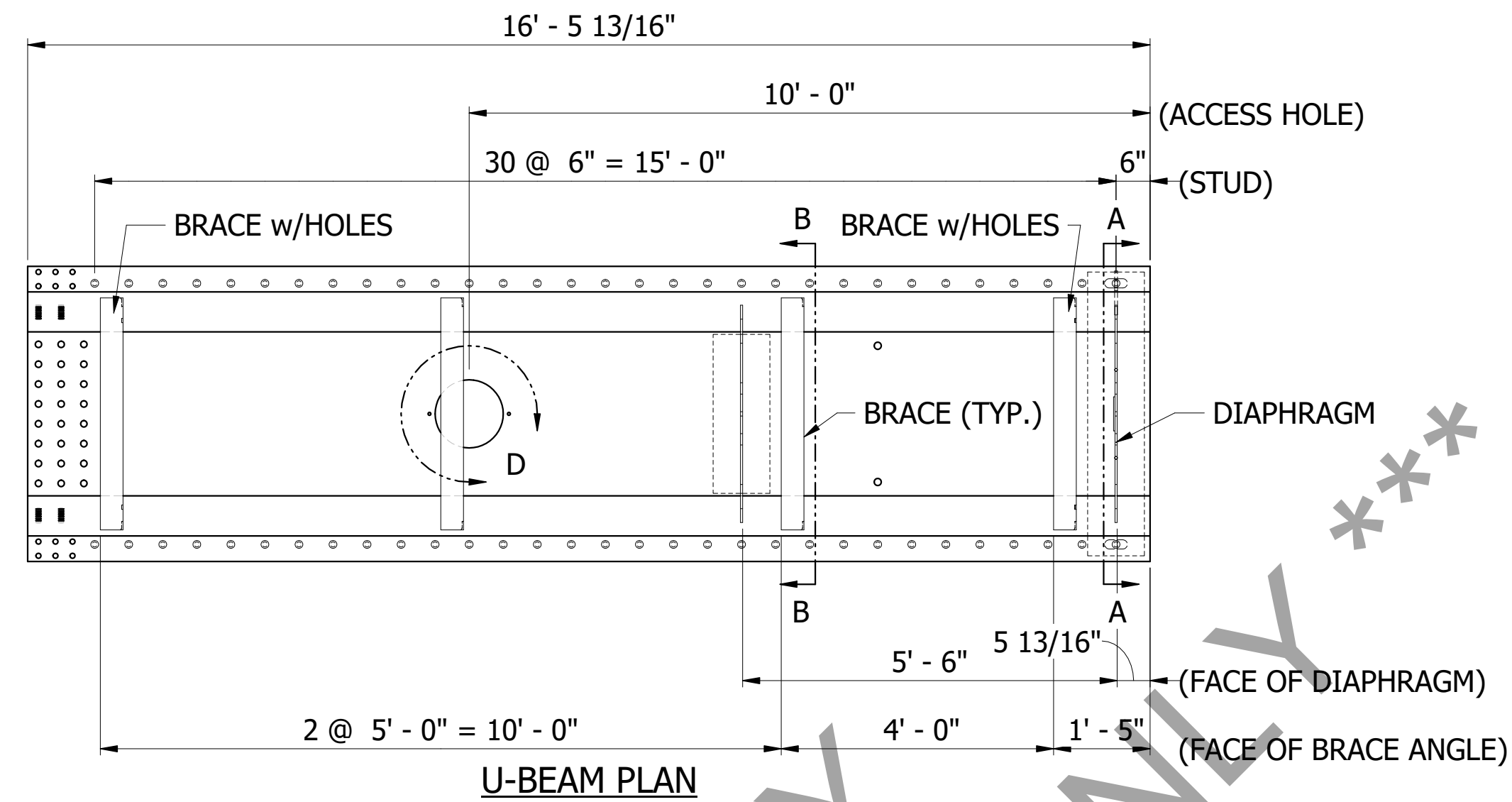
TITLE H1-2 SHEET 2

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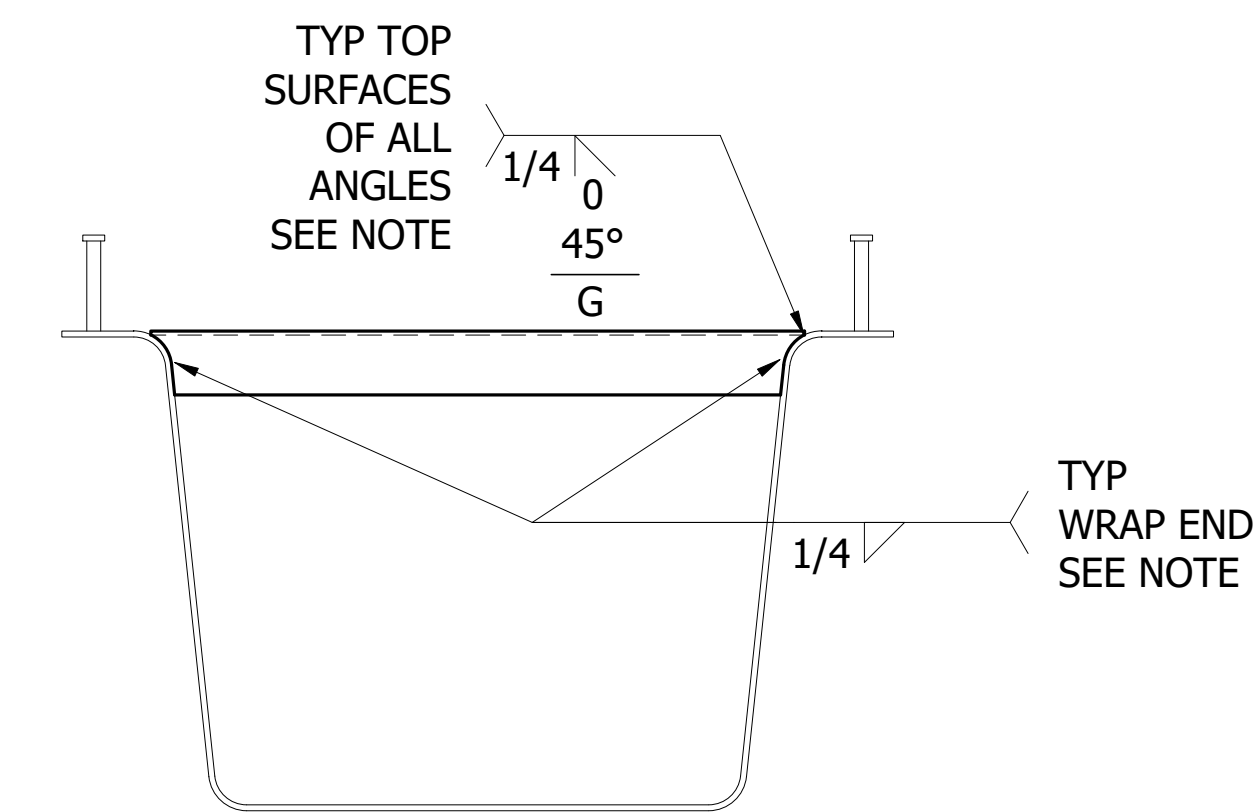


ORDER NUMBER: 529039-P1  
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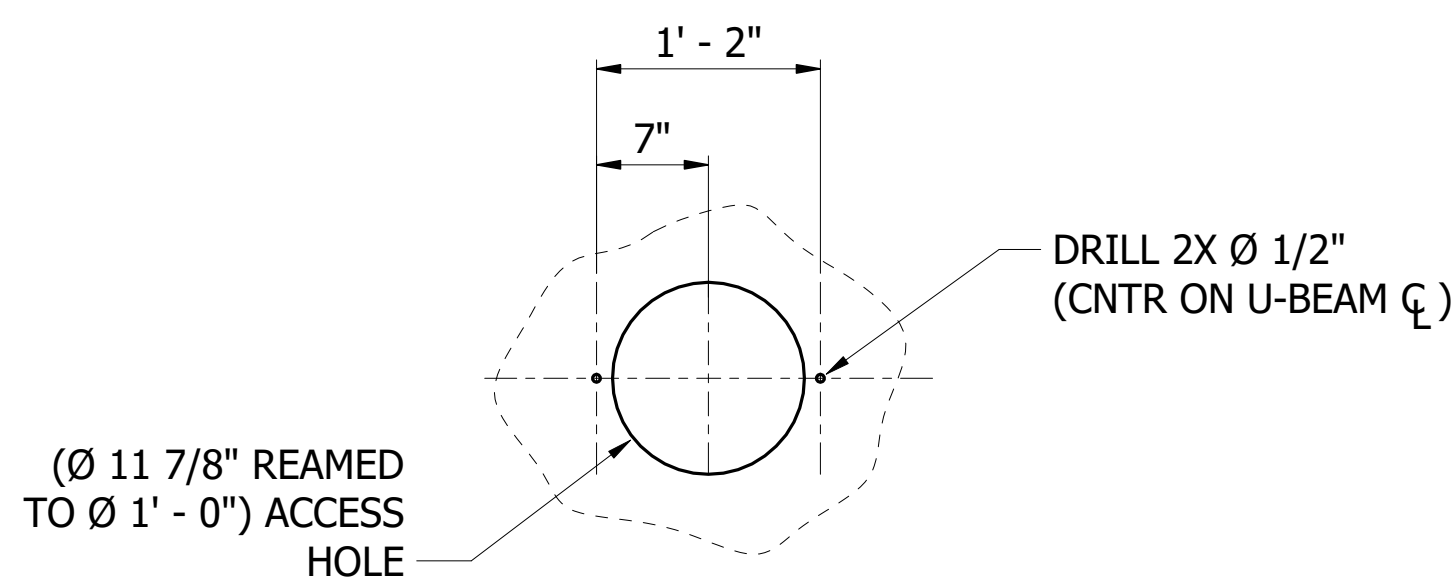




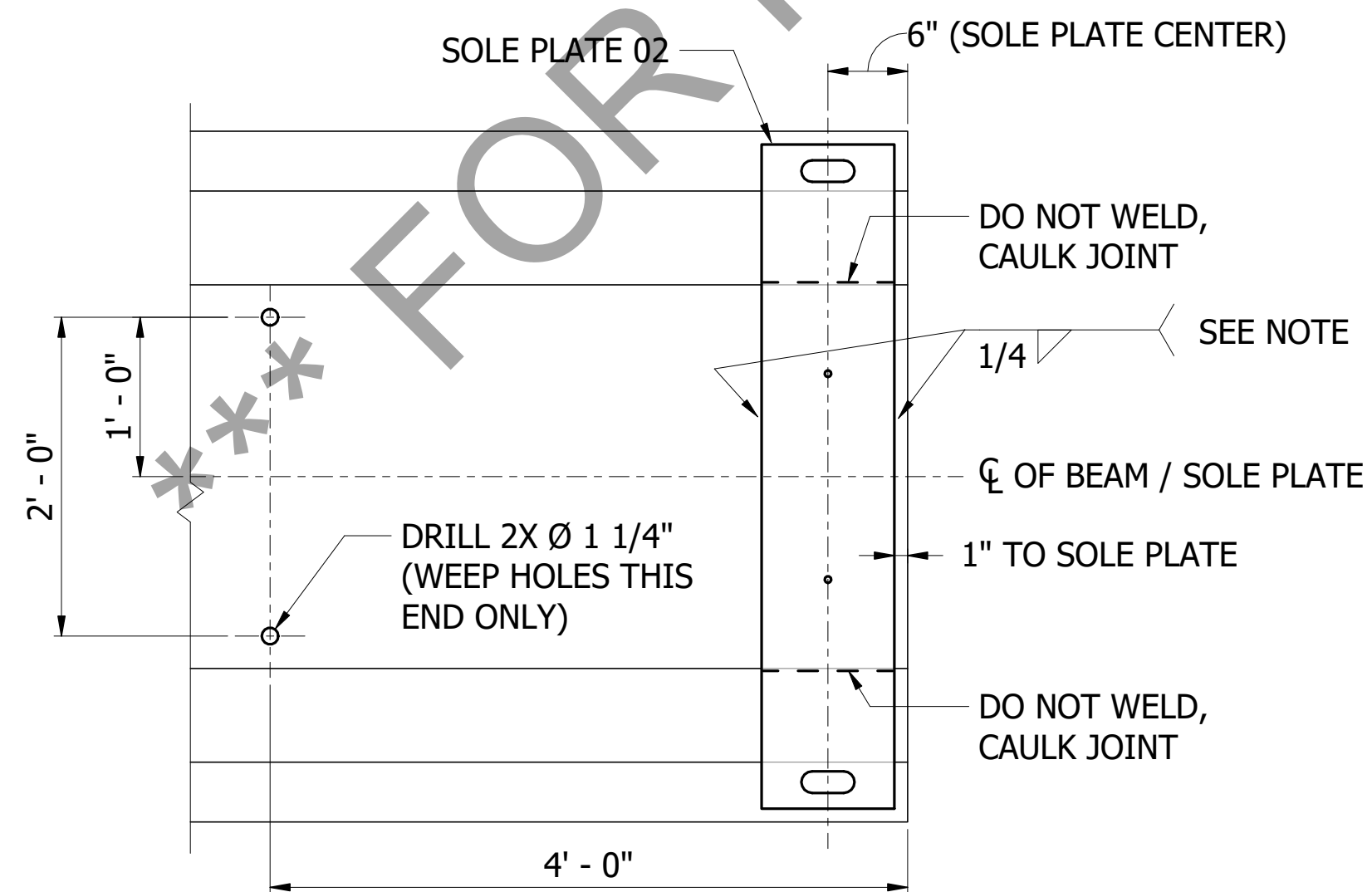
**SECTION A-A**  
(CONNECTION PLATES ARE NOT SHOWN FOR CLARITY.)



**SECTION B-B**



**DETAIL D**



**SECTION C-C**  
(EXP. SOLE PLATE)

WELD NOTE:  
- SEE WELDING SECTION ON COVER SHEET FOR WELDING SPECIFICATIONS.

NOTE:  
- REFERENCE FRAMING PLAN DRAWING FOR OVERALL GIRDER ASSEMBLY.

LABEL	DESCRIPTION	QTY PER ASSY
U-BEAM	U30 x 16' - 5 13/16" GIRDER	1
BRACE	L4x4x1/4 x 3'-4 7/8"	2
BRACE w/HOLES	L4x4x1/4 x 3'-4 7/8" w/(2) 3/4"Ø HOLES	2
CONNEX PLATE	PL 1/2" x (6 1/4" / 7 3/4") x 1'-2"	1
DIAPHRAGM	PL 3/8" x 2'-5 5/8" x 3'-2 1/4"	1
SHEAR STUD	7/8"Ø x 6" SHEAR STUD	62
SOLE PLATE 02	PL 3/4" x 10" x 4'-2" w/(2) 1/2"Ø HOLES & (2) 1 5/8"Ø x 4" SLOTTED HOLES	1
SOLE PLATE 03	PL 3/4" x 10" x 2'-4"	1
TAG	ID TAG	1

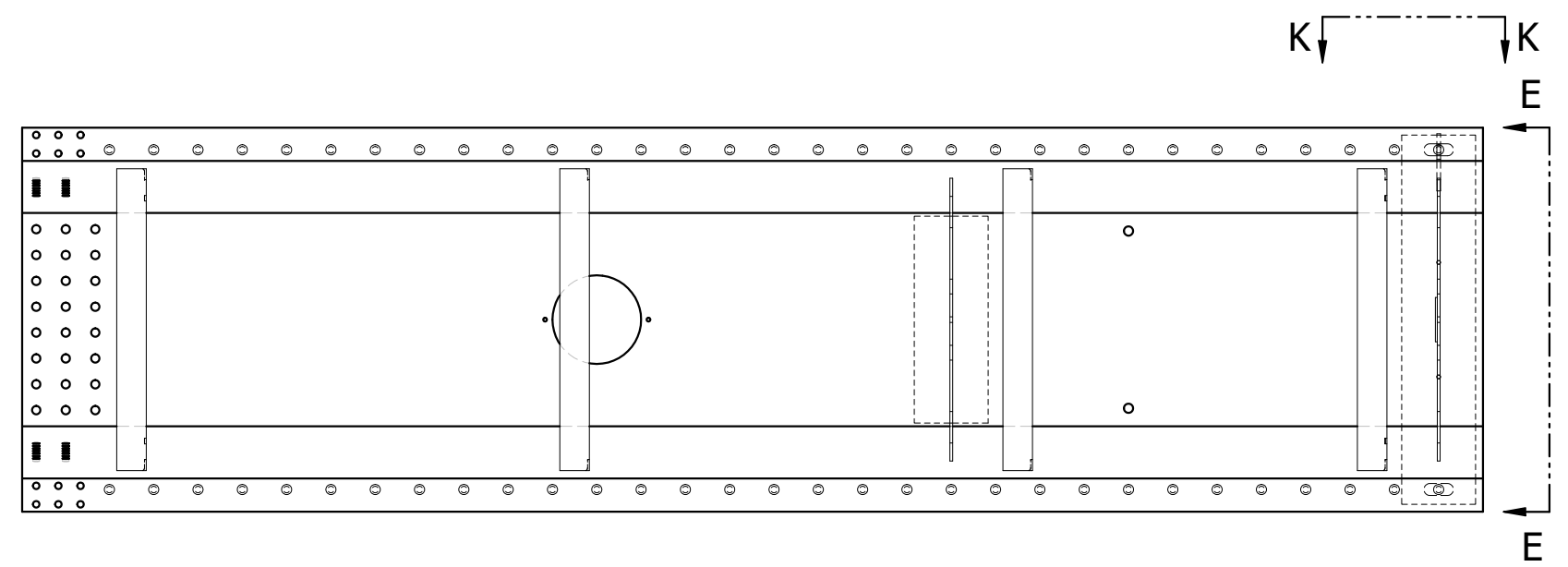
JOB IMPERIAL CO., CA.  
DOGWOOD ROAD OVER CENTRAL MAIN CANAL  
BRIDGE NO: 58C-0226 / COUNTY PROJECT 6222

TITLE H1-3 SHEET 1

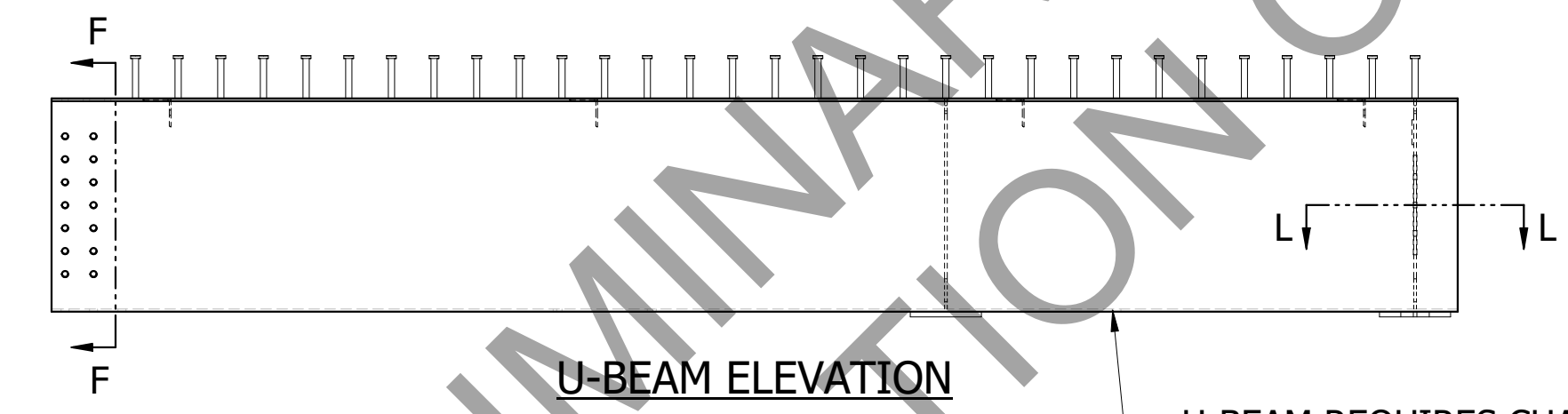
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ORDER NUMBER: 529039-P1  
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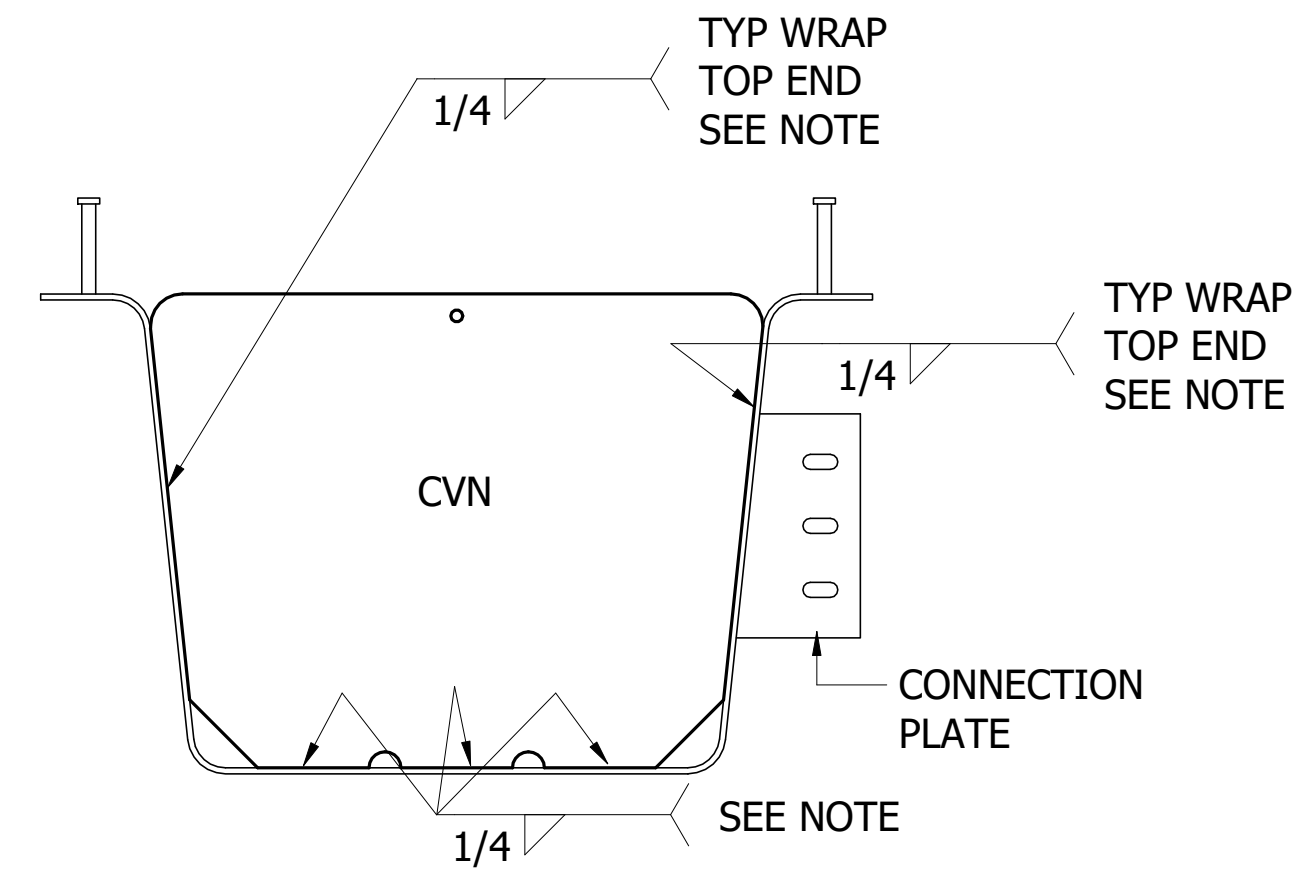


U-BEAM PLAN



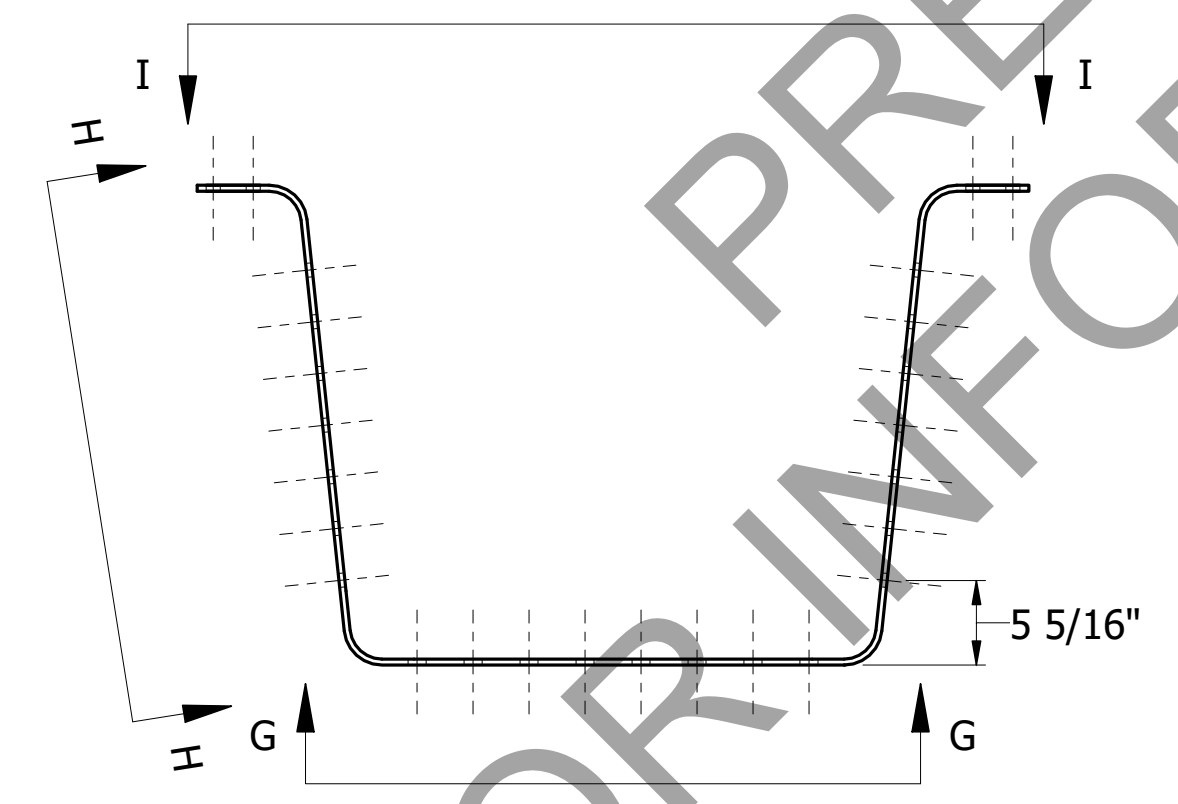
U-BEAM ELEVATION

U-BEAM REQUIRES CHARPY V-NOTCH TESTING. (CVN)

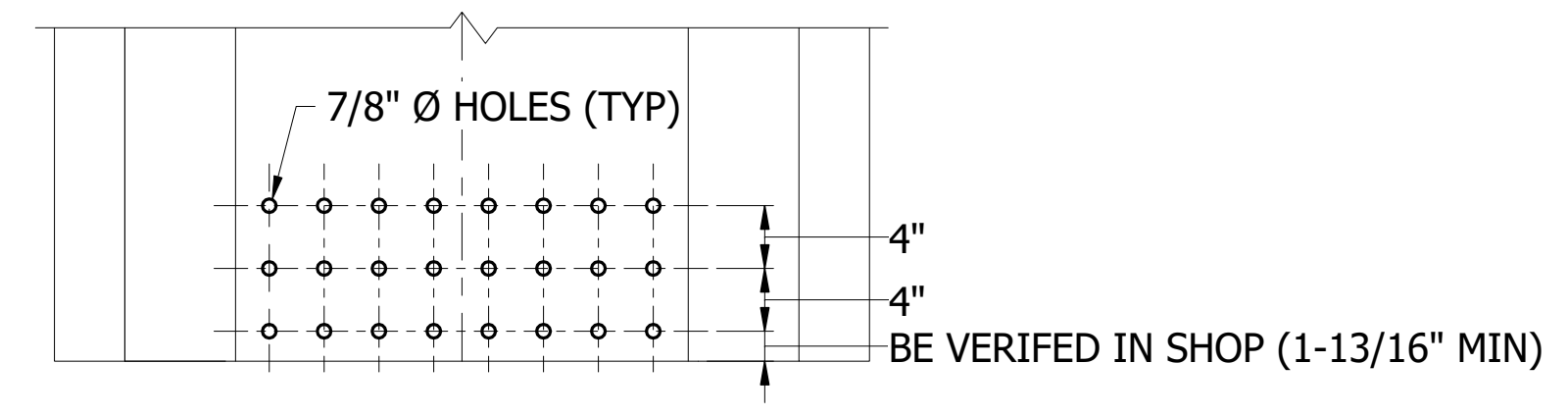


SECTION E-E

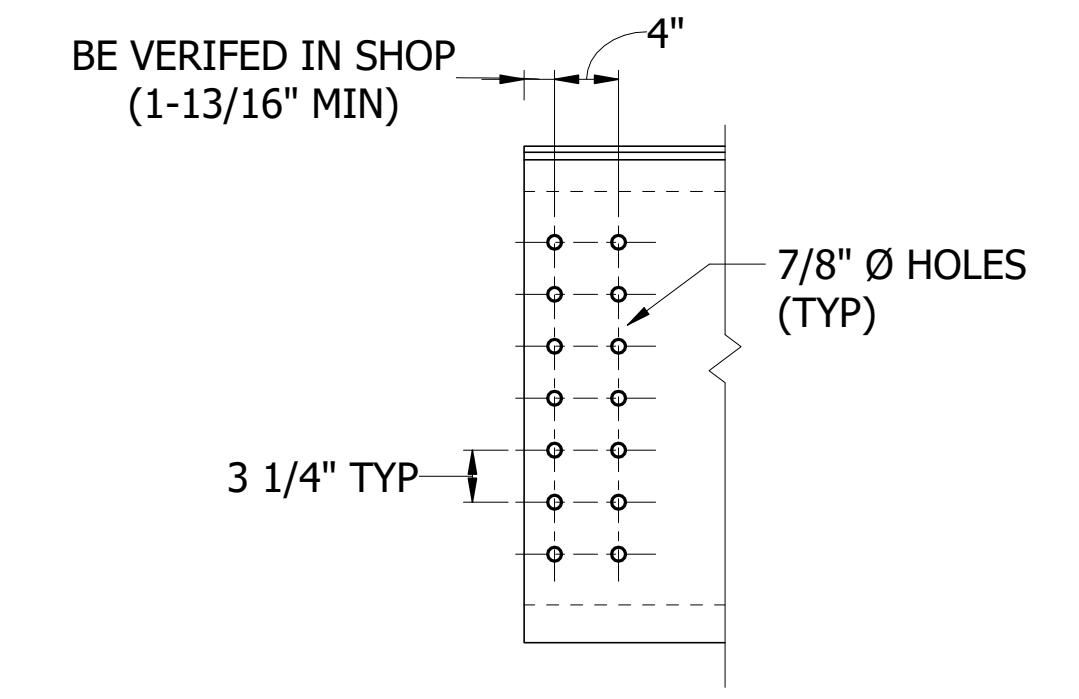
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(LOOKING NORMAL TO DIAPHRAGM  
AND CONNECTION PLATE)



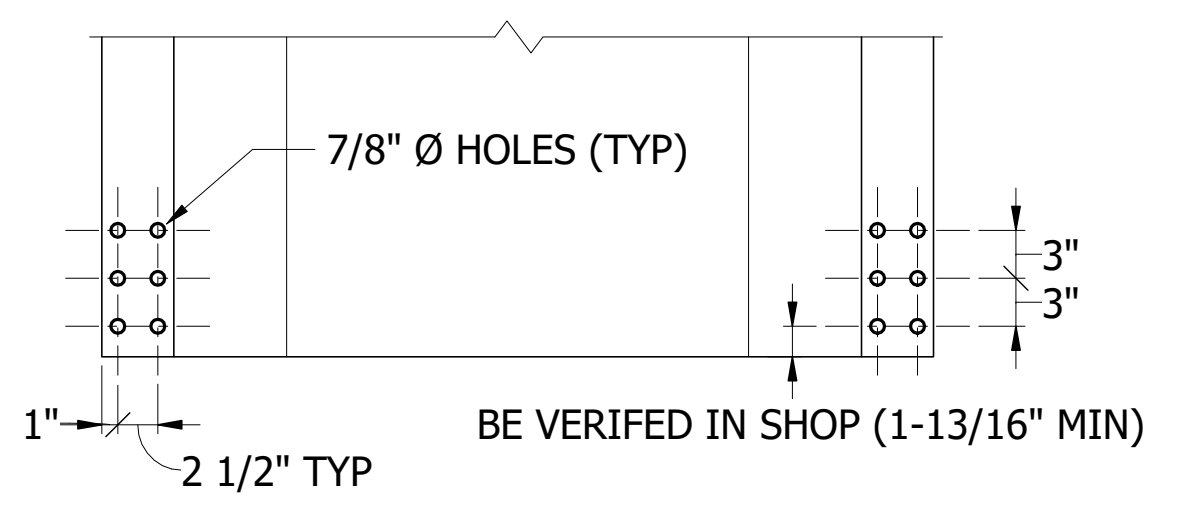
SECTION F-F



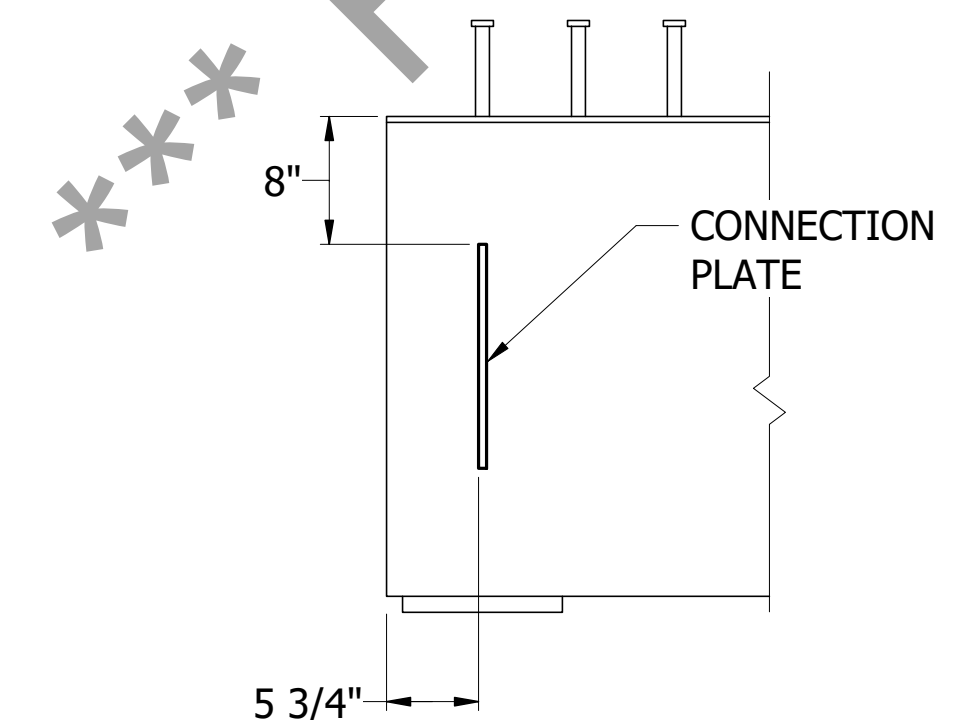
SECTION G-G



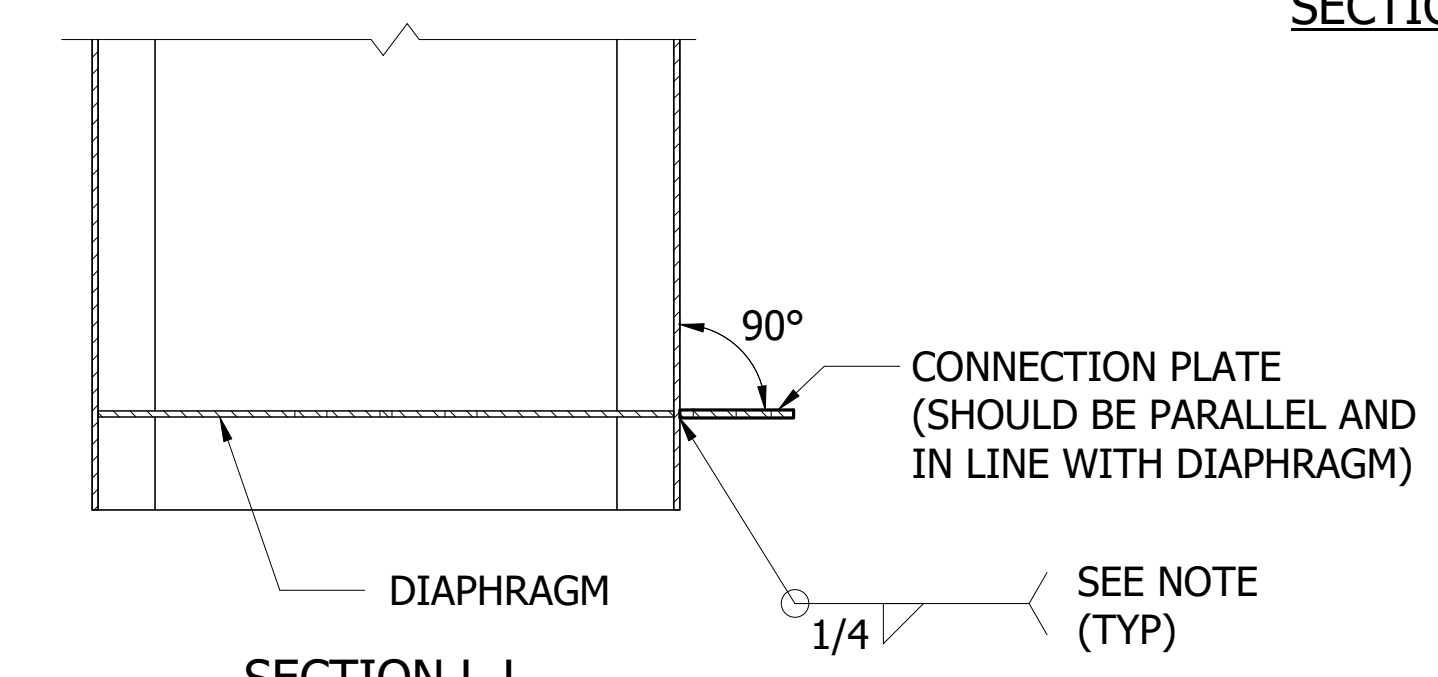
SECTION H-H



SECTION I-I



SECTION K-K



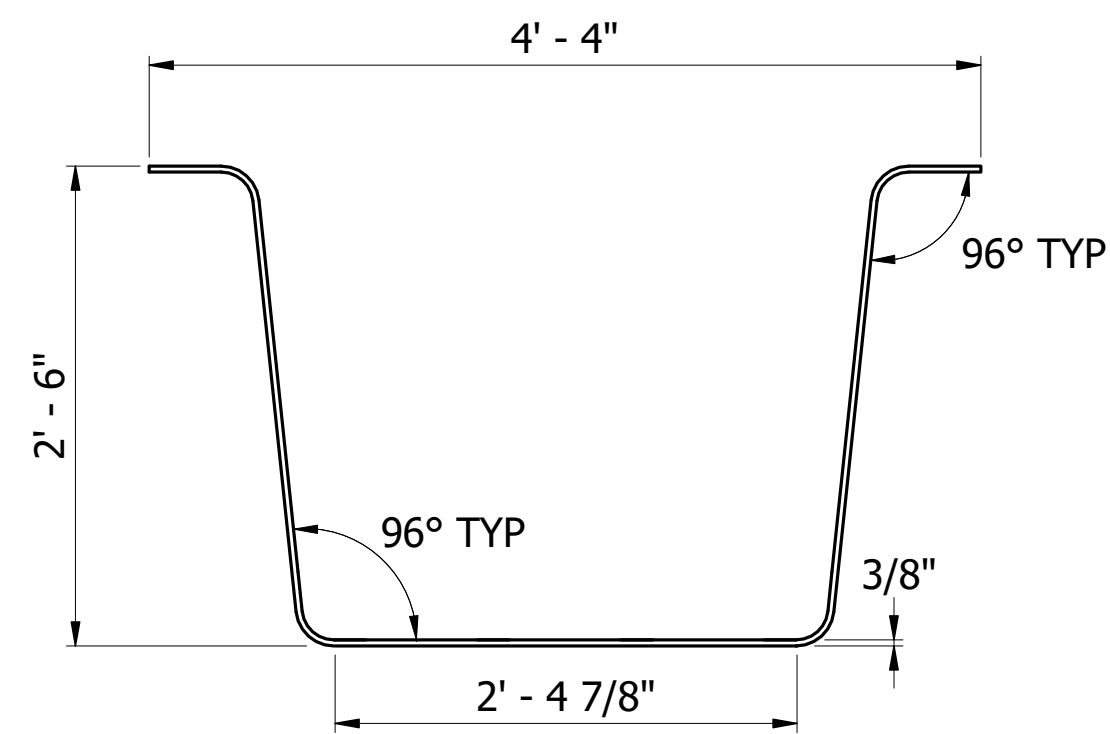
SECTION L-L  
(CONNECTION PLATE DETAIL)

JOB	IMPERIAL CO., CA. DOGWOOD ROAD OVER CENTRAL MAIN CANAL BRIDGE NO: 58C-0226 / COUNTY PROJECT 6222
TITLE	H1-3 SHEET 2

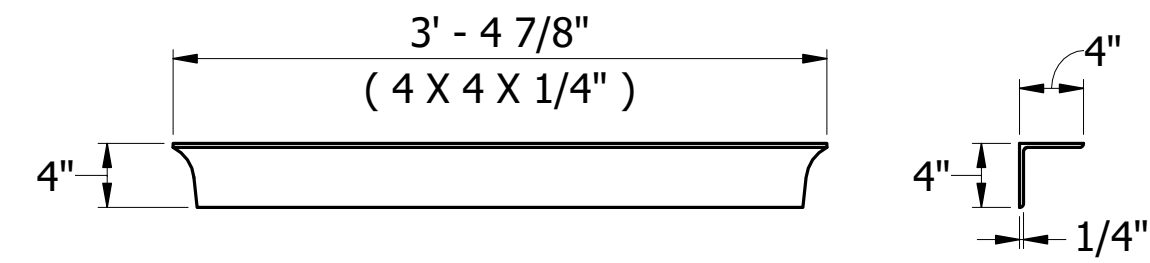
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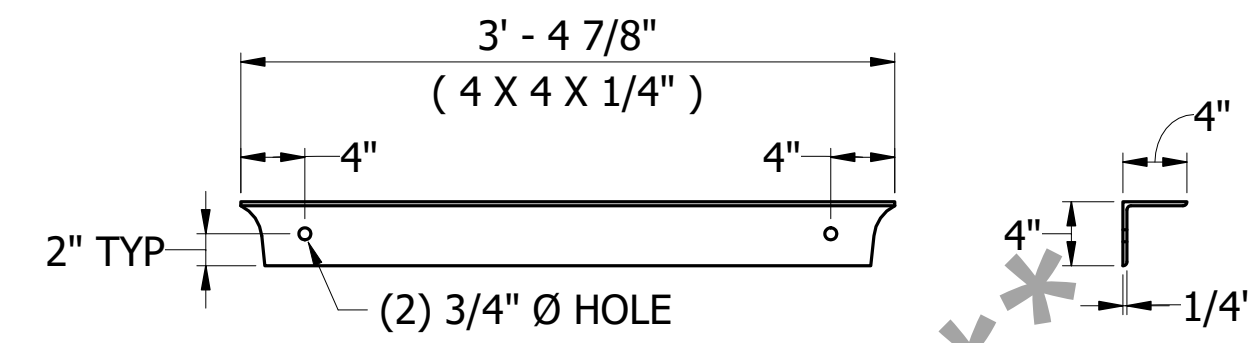
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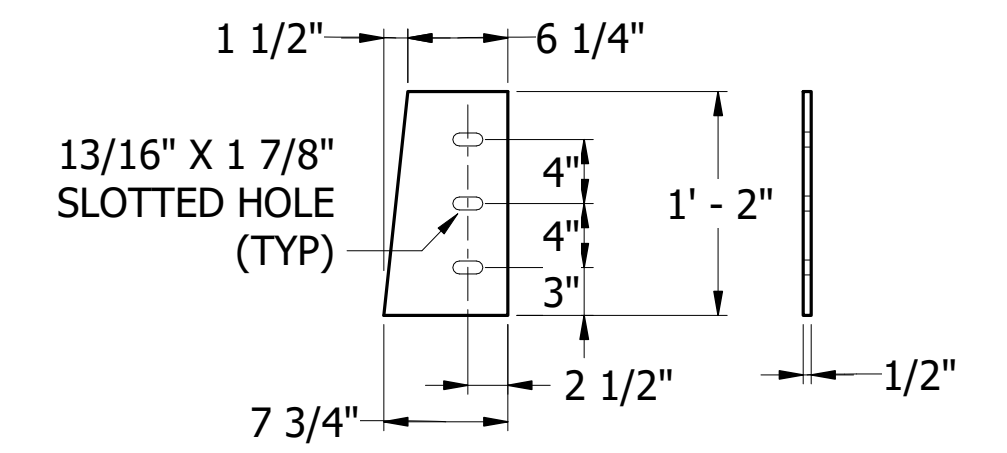
**U-BEAM SECTION**



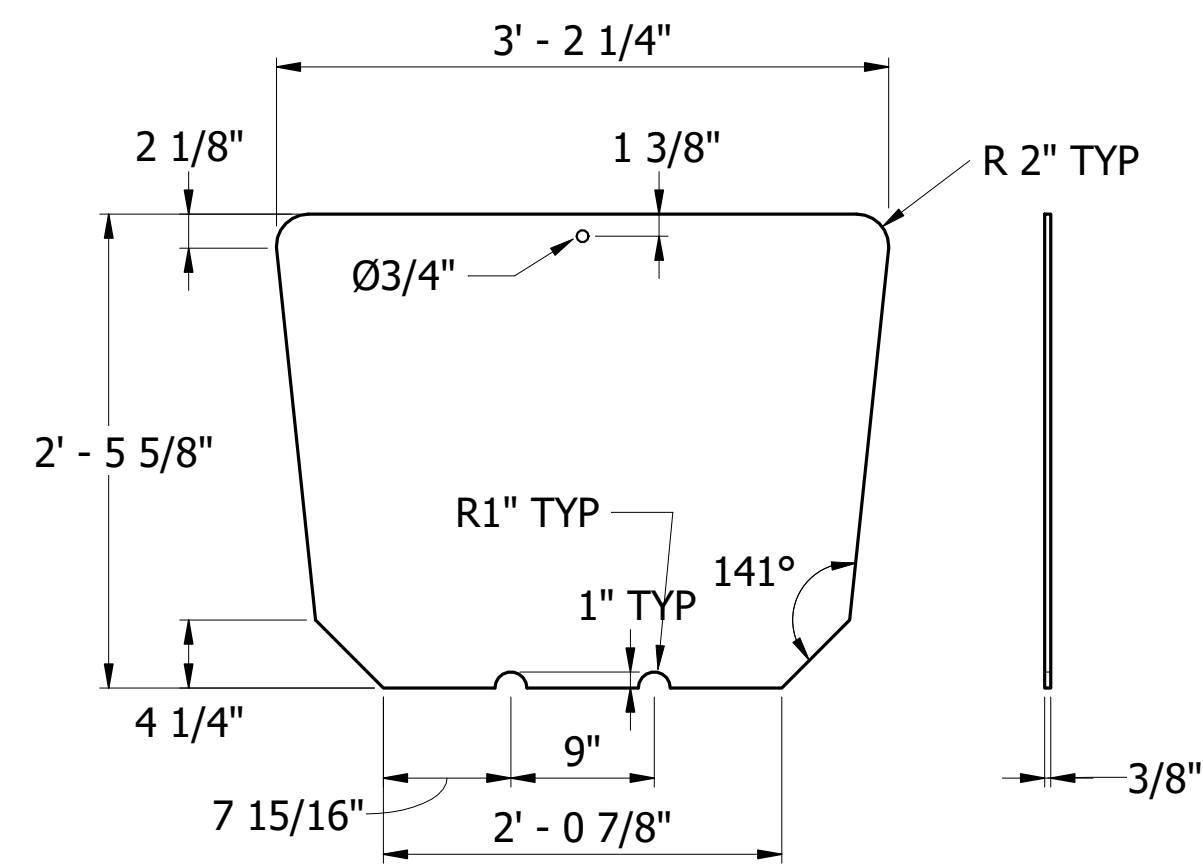
**BRACE DETAIL**



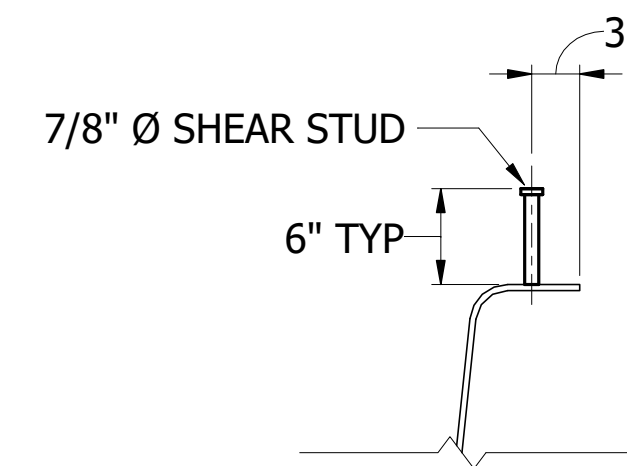
**BRACE w/HOLES DETAIL**



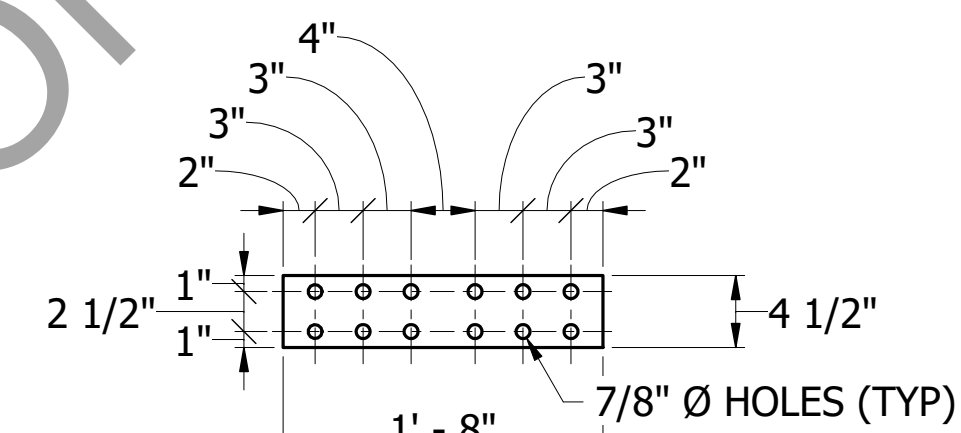
**CONNECTION PLATE DETAIL**



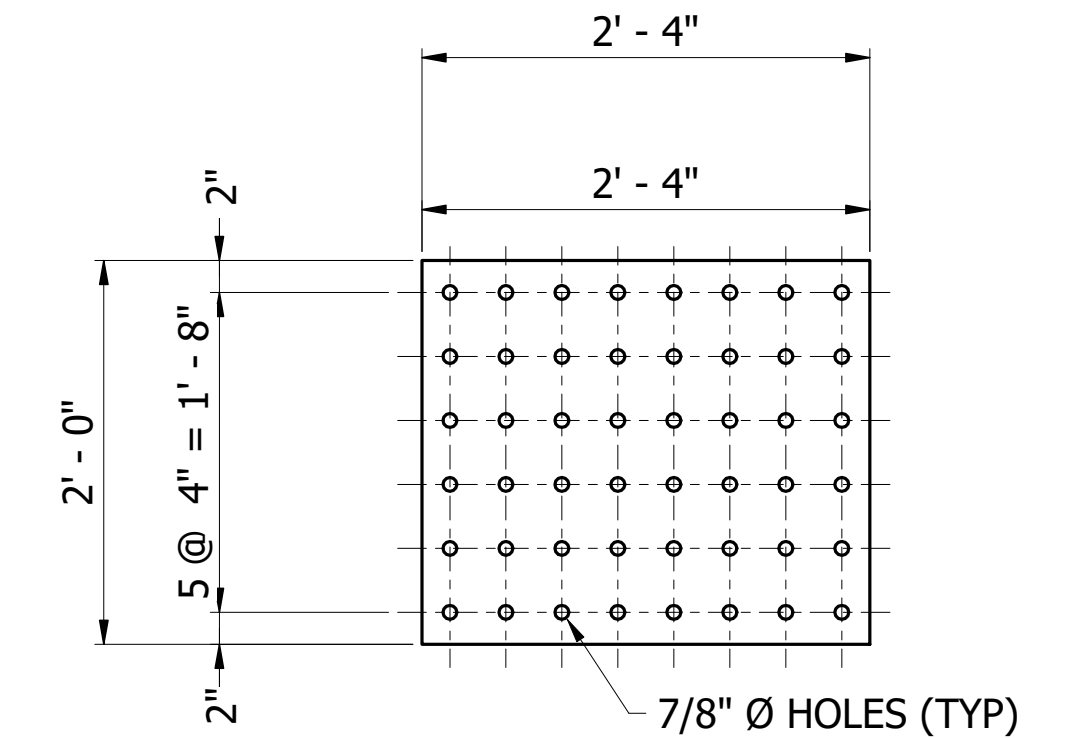
**DIAPHRAGM DETAIL**



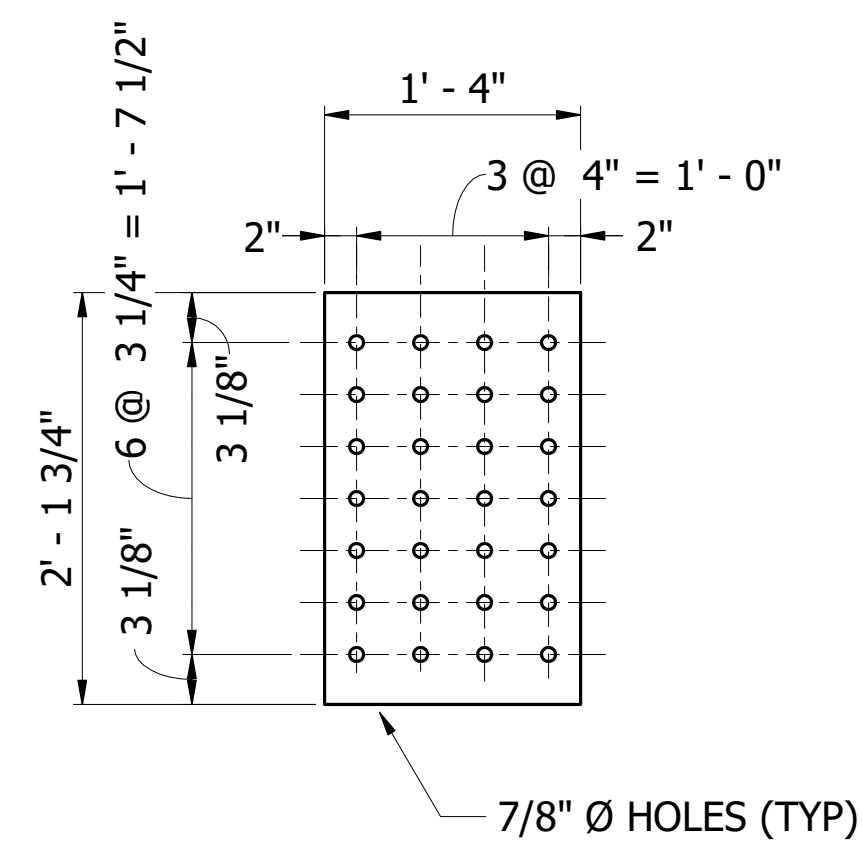
**SHEAR STUD DETAIL**



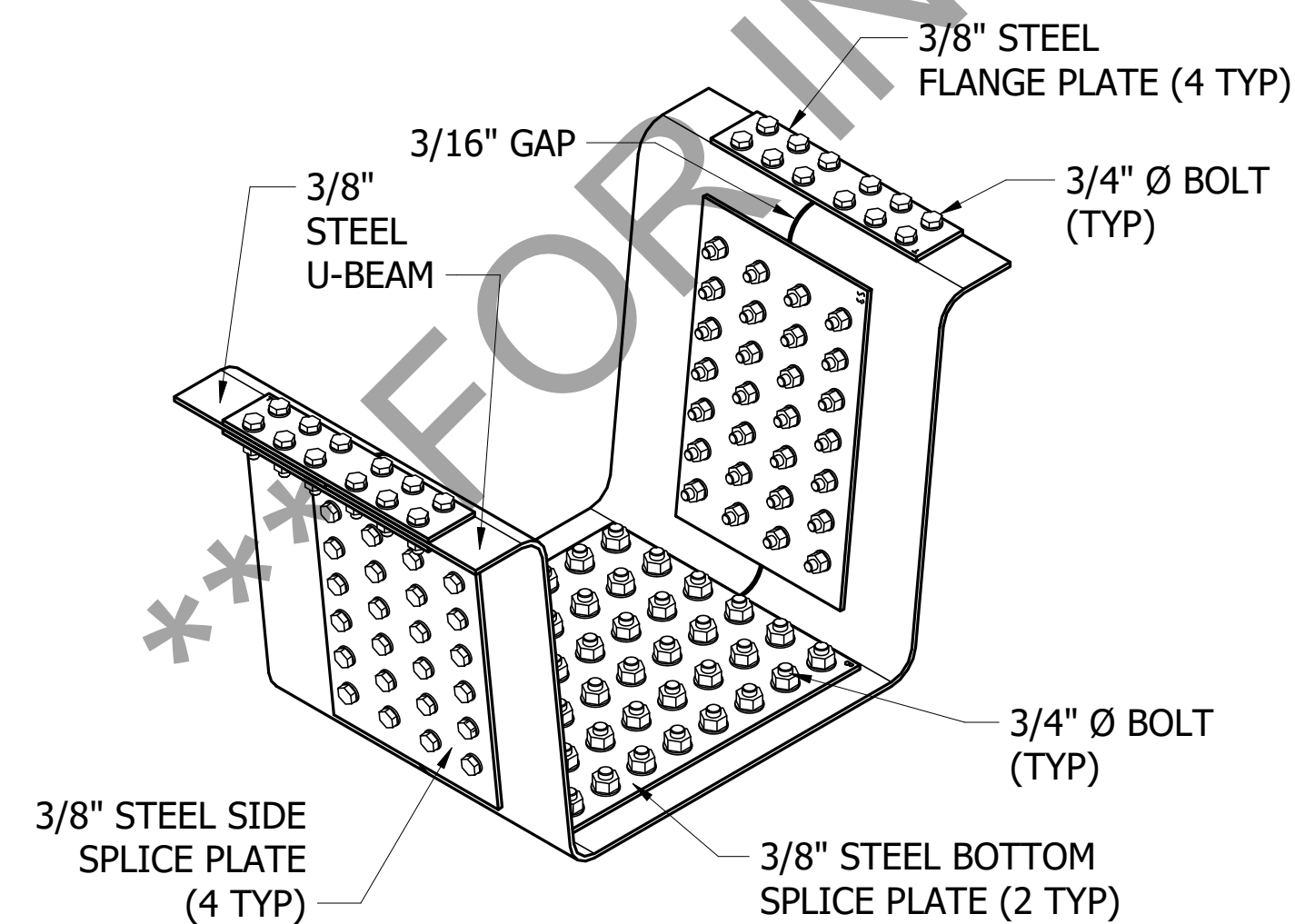
**TOP FLANGE SPLICE PLATE**



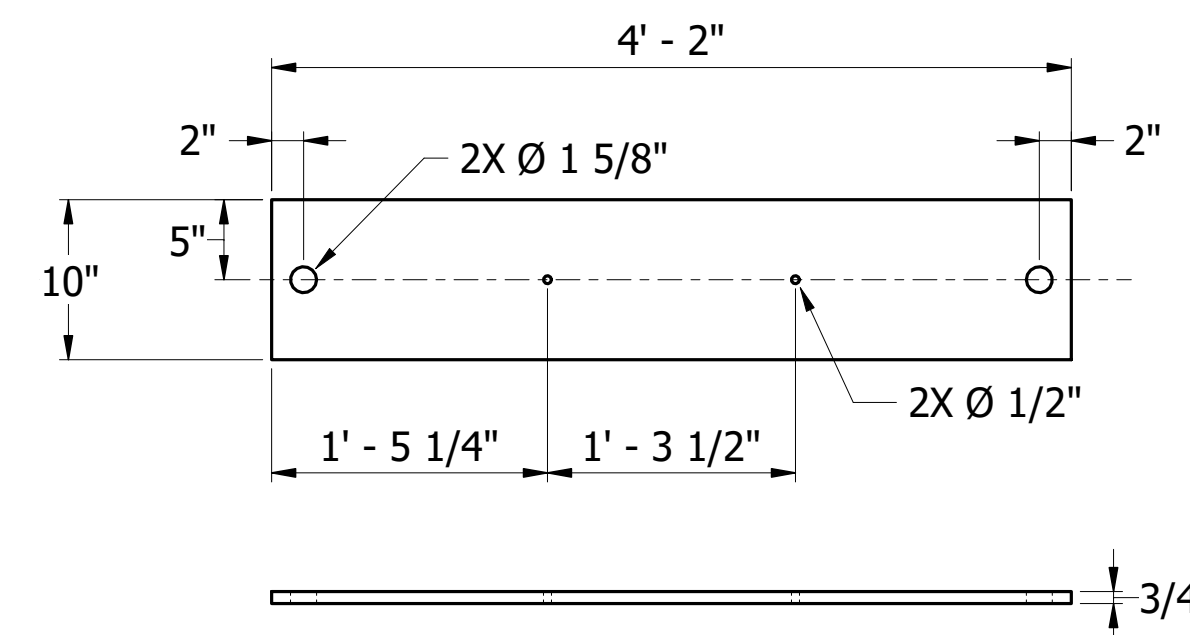
**BOTTOM FLANGE SPLICE PLATE**



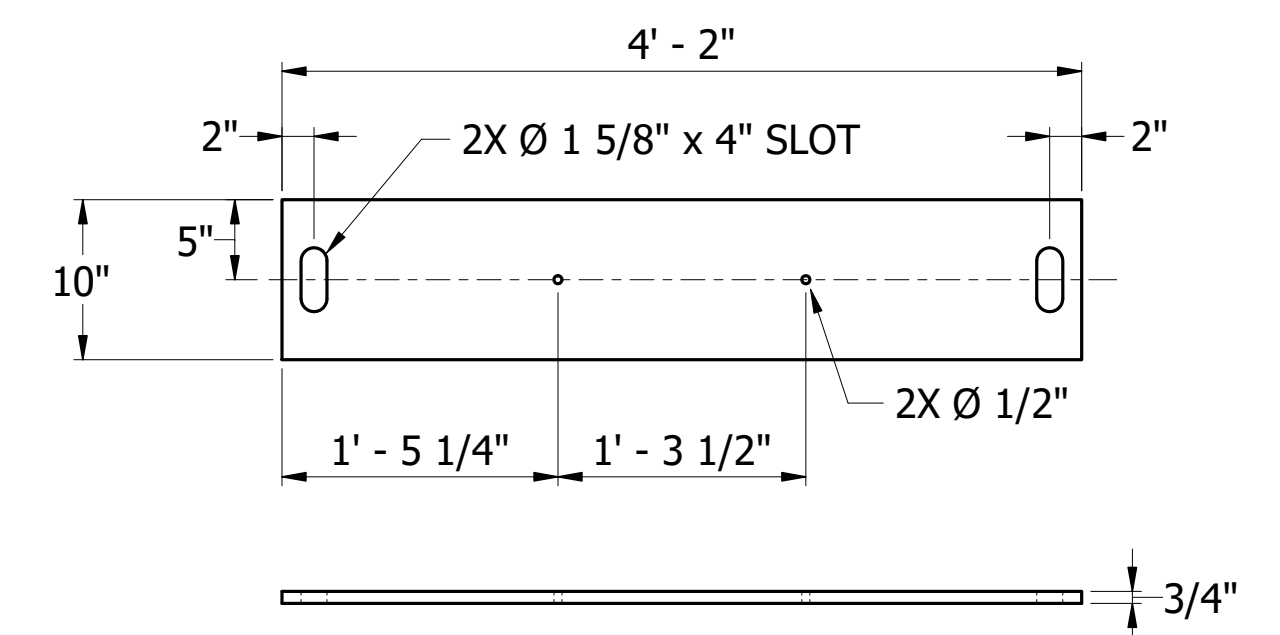
**SIDE SPLICE PLATE**



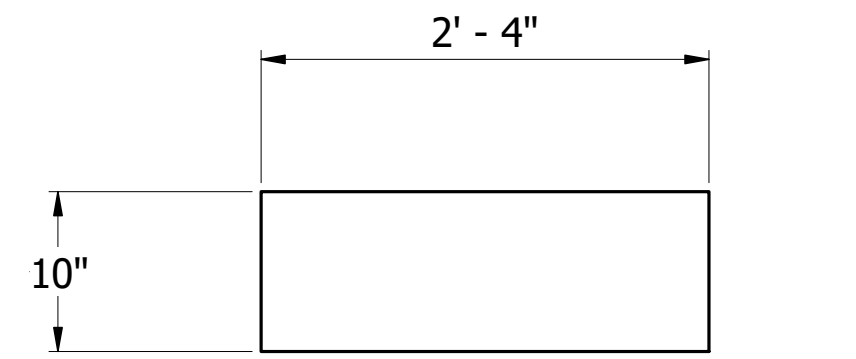
**SPLICE ASSEMBLY**



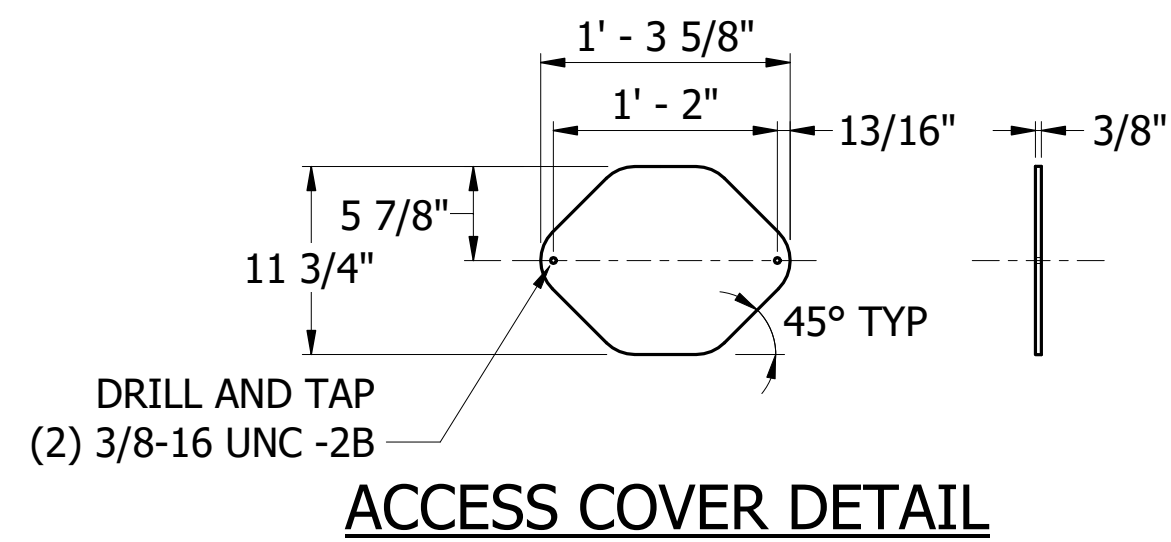
**SOLE PLATE 01**



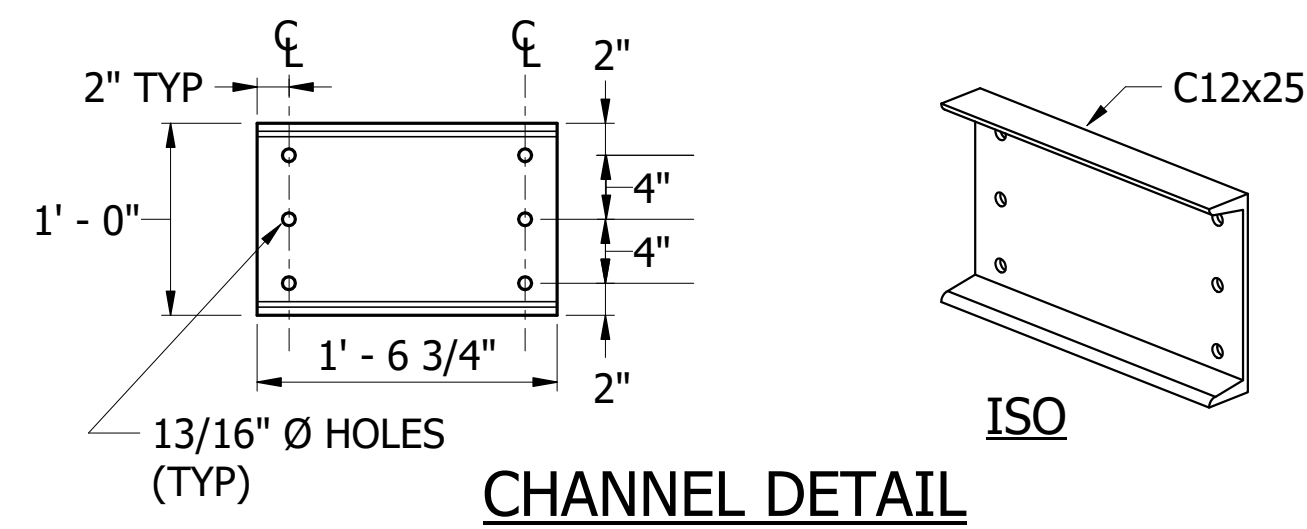
**SOLE PLATE 02**



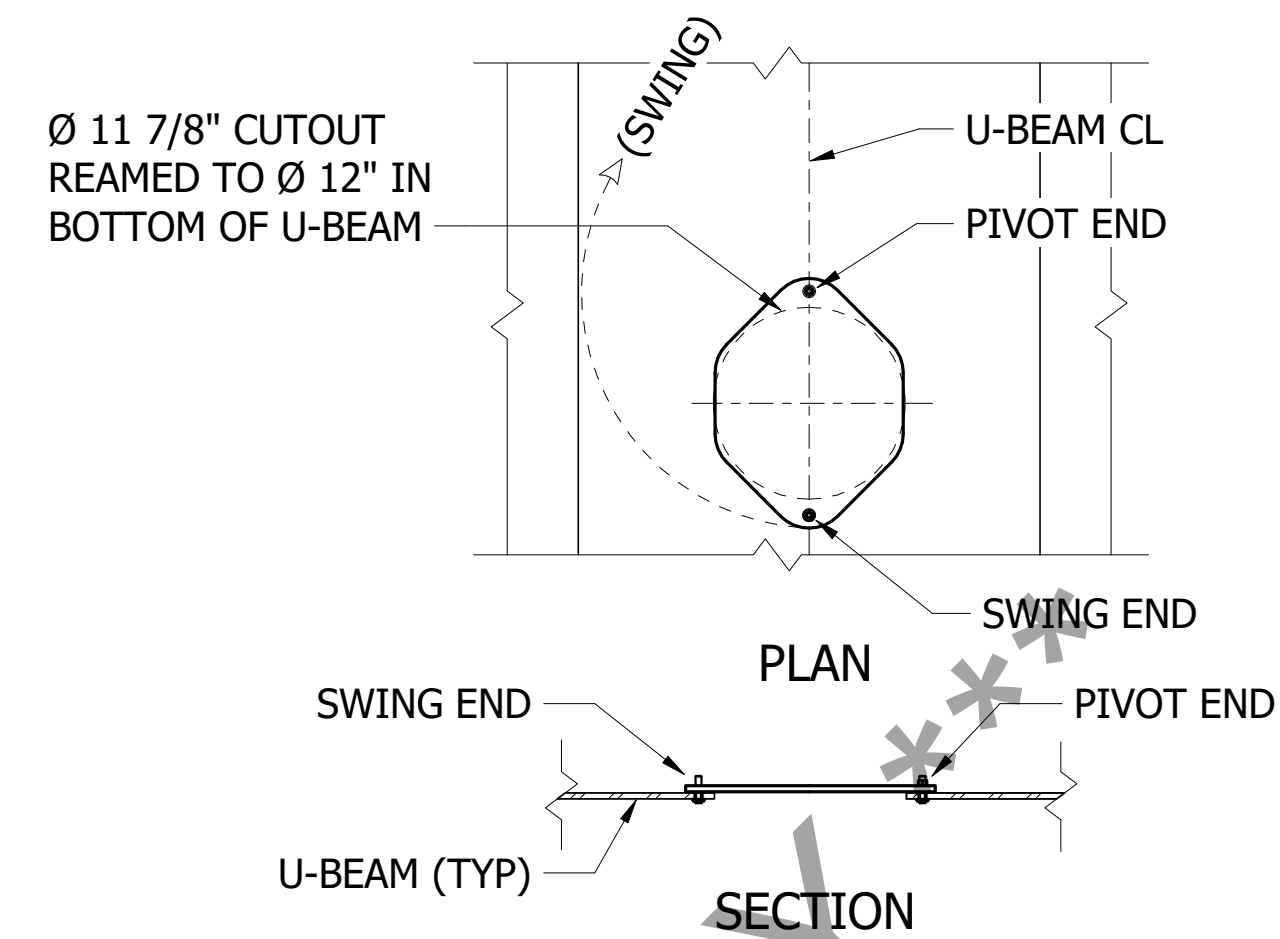
**SOLE PLATE 03**



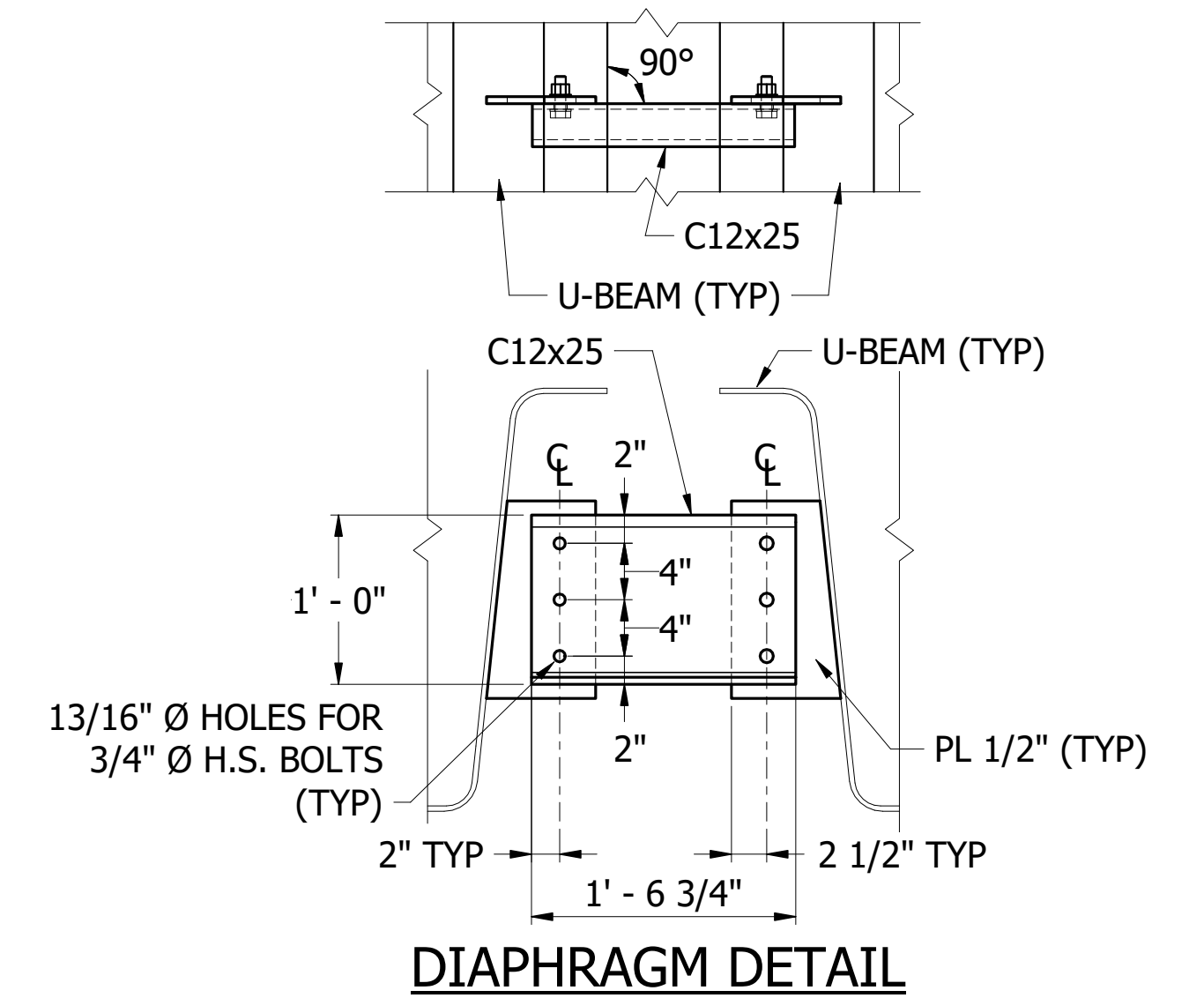
**ACCESS COVER DETAIL**



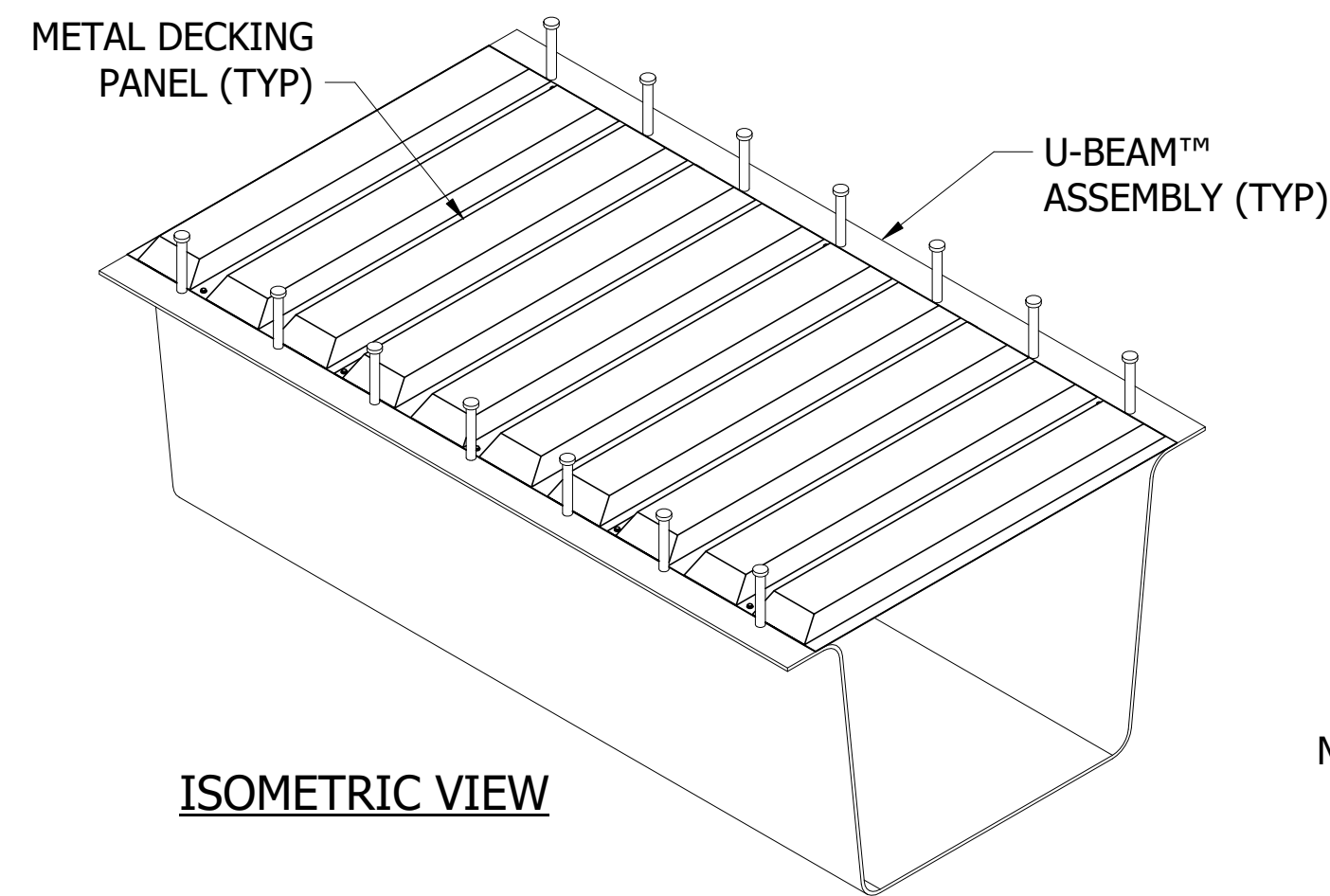
**CHANNEL DETAIL**



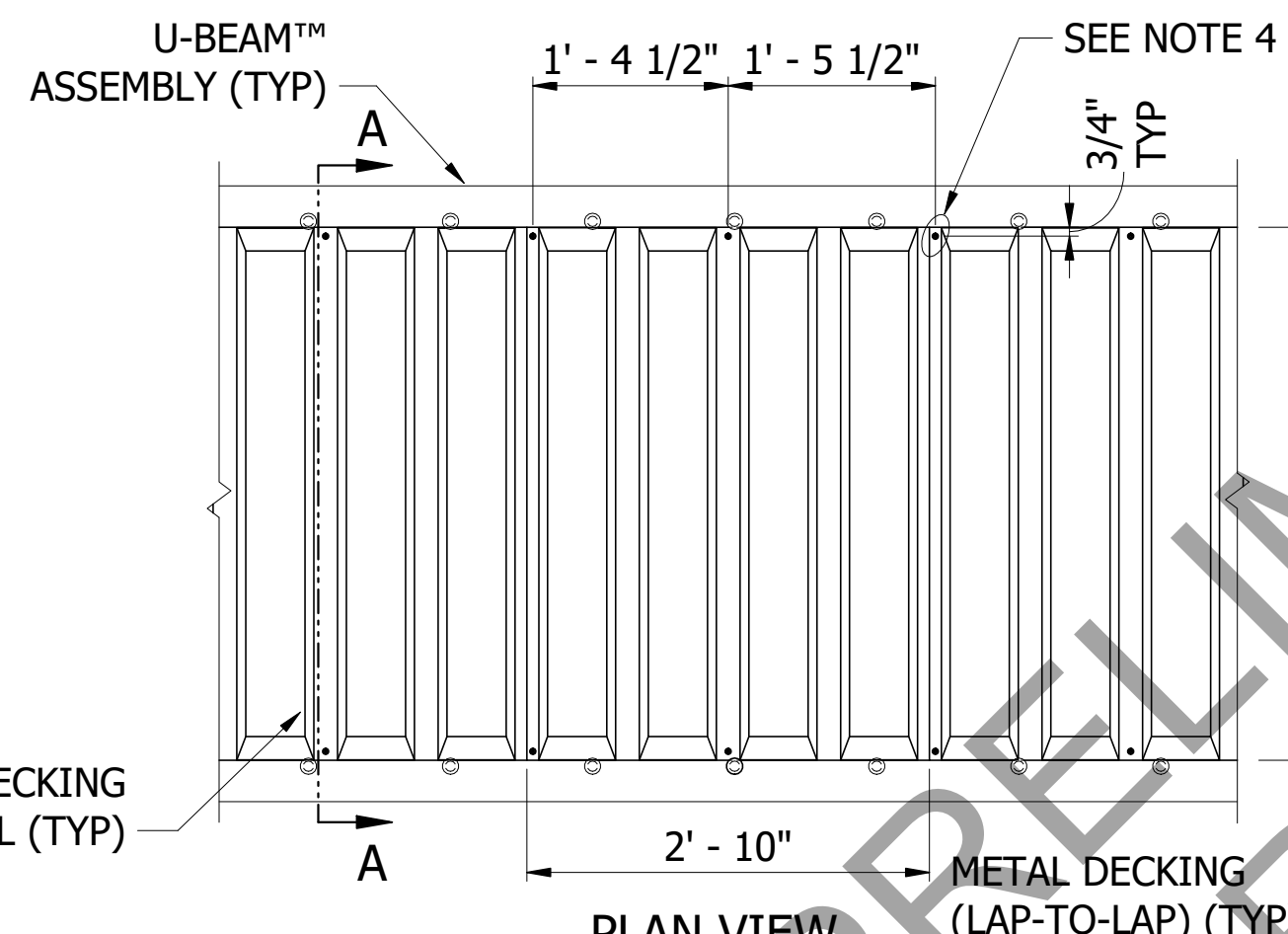
**HATCH DETAIL**



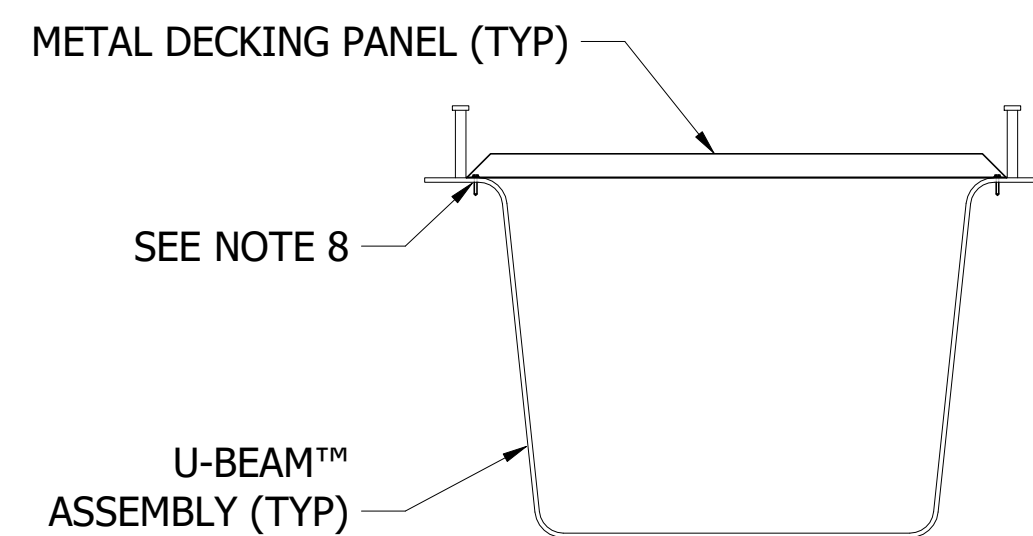
**DIAPHRAGM DETAIL**



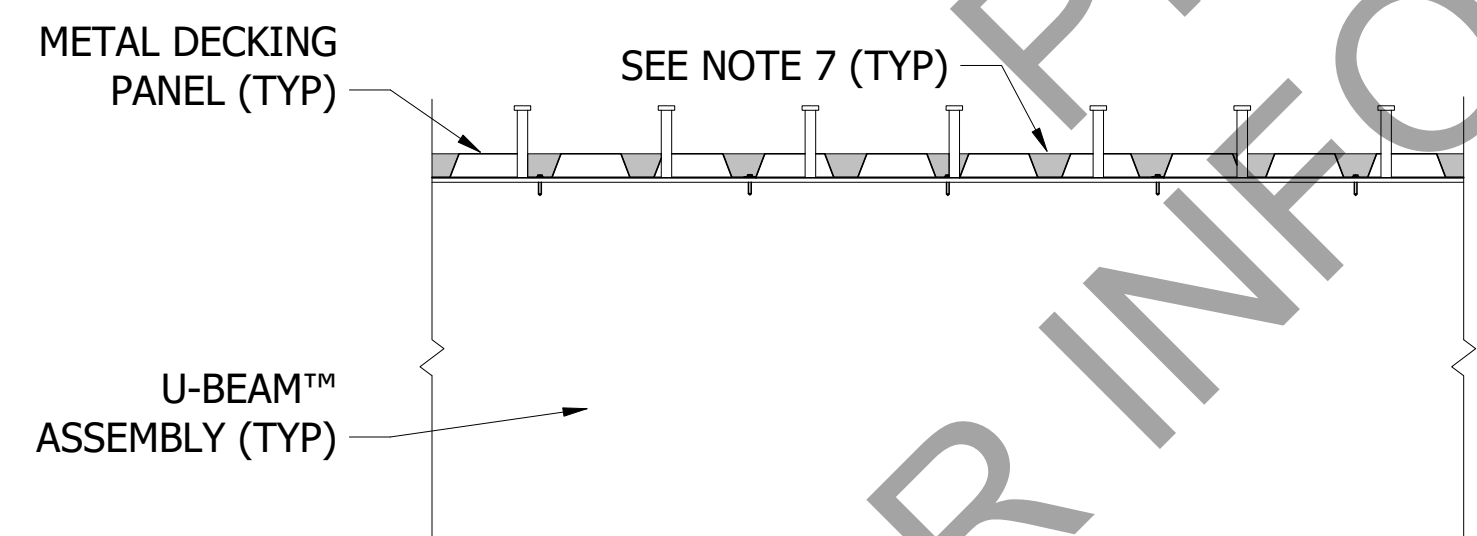
**ISOMETRIC VIEW**



**PLAN VIEW**



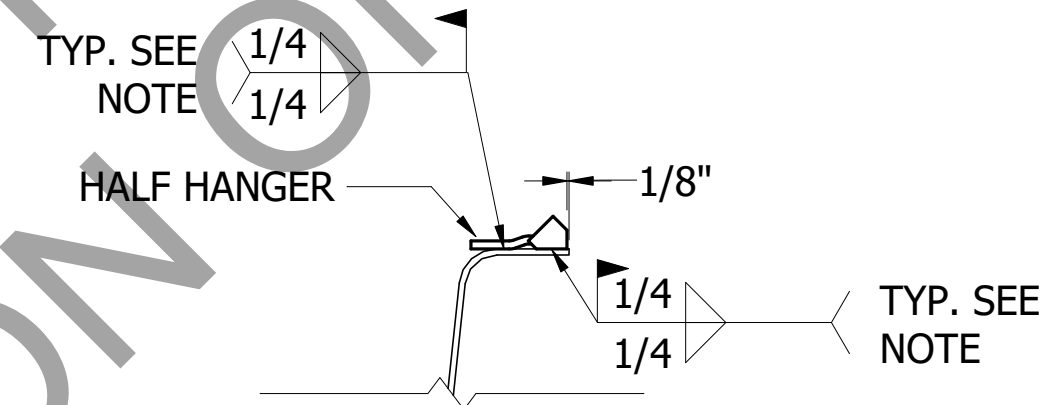
**SECTION A-A**



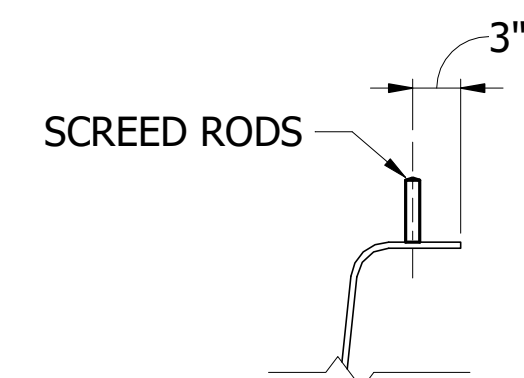
**ELEVATION**

**METAL DECKING**

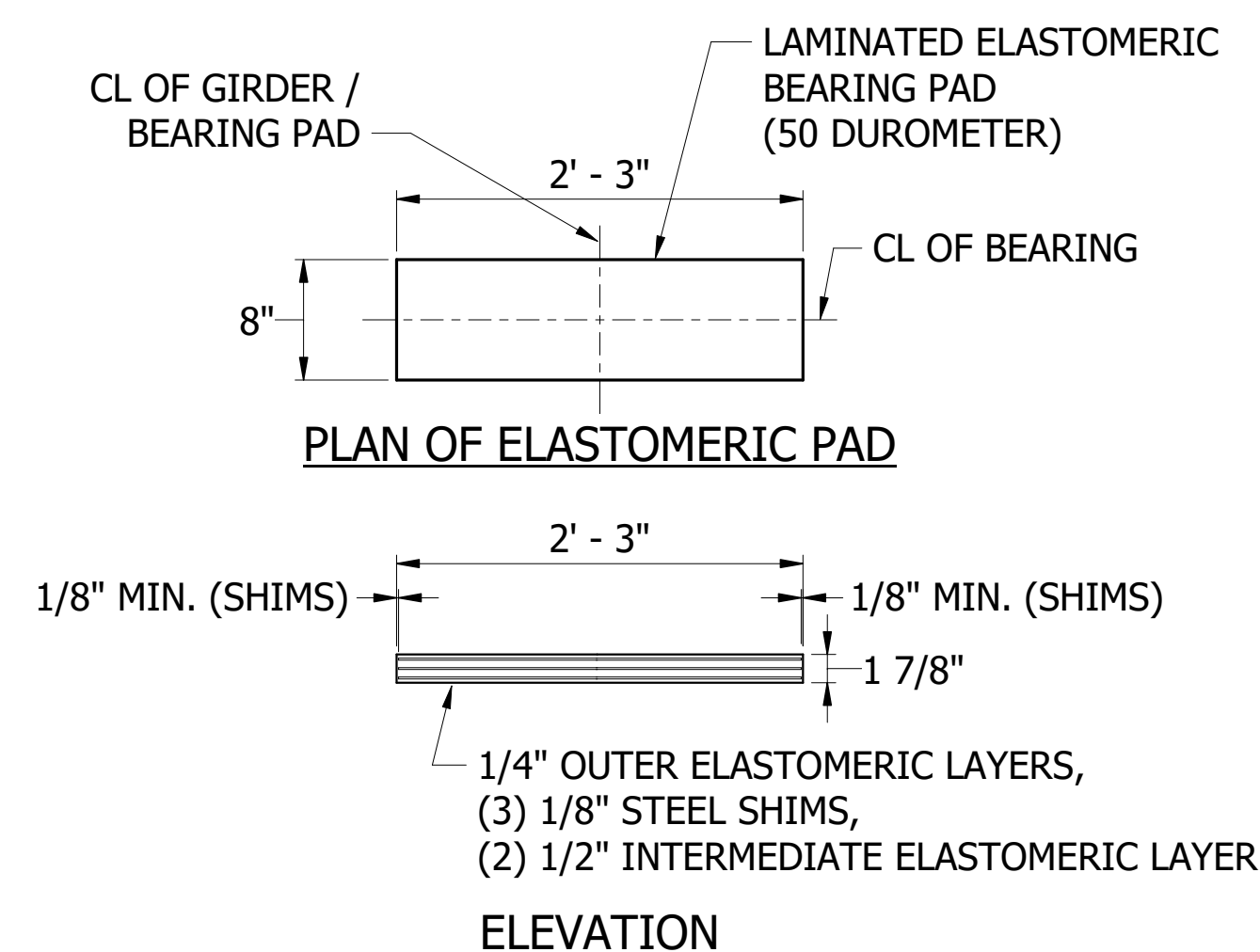
- NOTES:
- 1) METAL DECKING PANELS AND FASTENERS ARE DESIGNED AS A TEMPORARY LATERAL BRACING SYSTEM FOR TOP FLANGES TO RESIST ANY LATERAL BENDING AND TORSIONAL LOADS DEVELOPED DURING CONSTRUCTION.
  - 2) METAL DECKING PANELS SHALL BE FASTENED TO TOP FLANGES PRIOR TO APPLYING ANY KIND OF CONSTRUCTION LOADS.
  - 3) METAL DECKING IS ASSUMED TO BE 22 GAGE 2" x 8 1/2" PROFILE PER ASTM SPEC. A-653/A653M GRADE 80. ALTERNATE SYSTEMS AVAILABLE. VERIFY WITH VALMONT REPRESENTATIVE.
  - 4) FASTENERS ARE ASSUMED TO BE 12-24 X 1 1/2 TEK SCREWS TO BE PLACED ALONG SUPPORTS AT MID-WIDTH & AT SIDELAPS (3 SCREWS PER PANEL). ALTERNATE SYSTEMS AVAILABLE. VERIFY WITH VALMONT REPRESENTATIVE.
  - 5) ALL HARDWARE TO BE GALVANIZED PER ASTM A-924/A924M, COATING G210.
  - 6) METAL DECKING PANELS SHALL BEAR A MINIMUM 1" ON ALL SUPPORTS.
  - 7) STYROFOAM SHALL BE PLACED IN CORRUGATIONS.
  - 8) BOTTOM OF THE TOP FLANGES SHALL BE SEALED AT EACH SCREW LOCATION WITH APPROPRIATE METHOD AND MATERIAL FOLLOWING THE SCREW INSTALLATIONS.



**HALF HANGER DETAIL**  
(TO BE WELDED IN THE FIELD BY OTHERS)



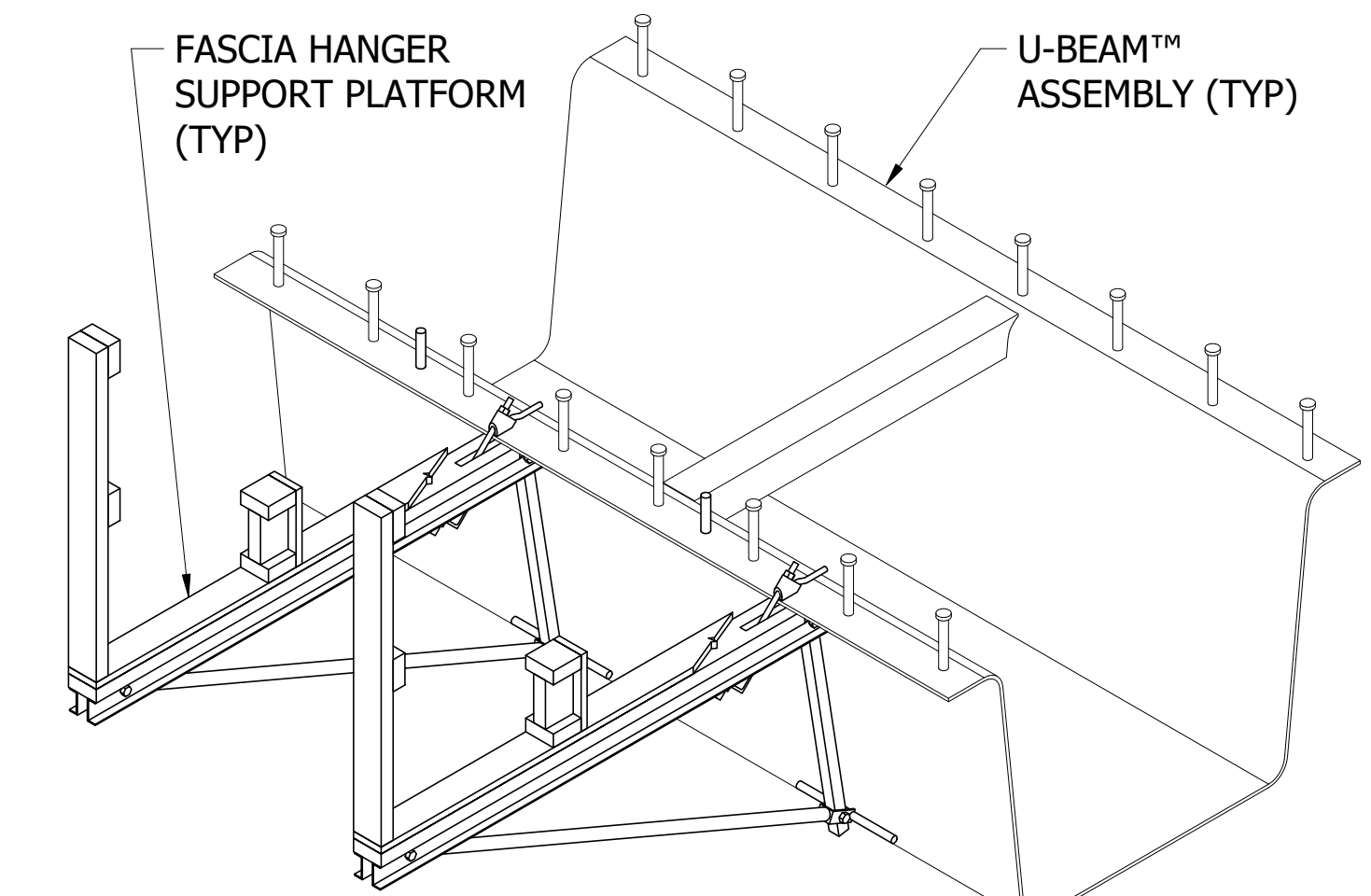
**NBL STUD DETAIL**  
(TO BE WELDED IN THE FIELD BY OTHERS)



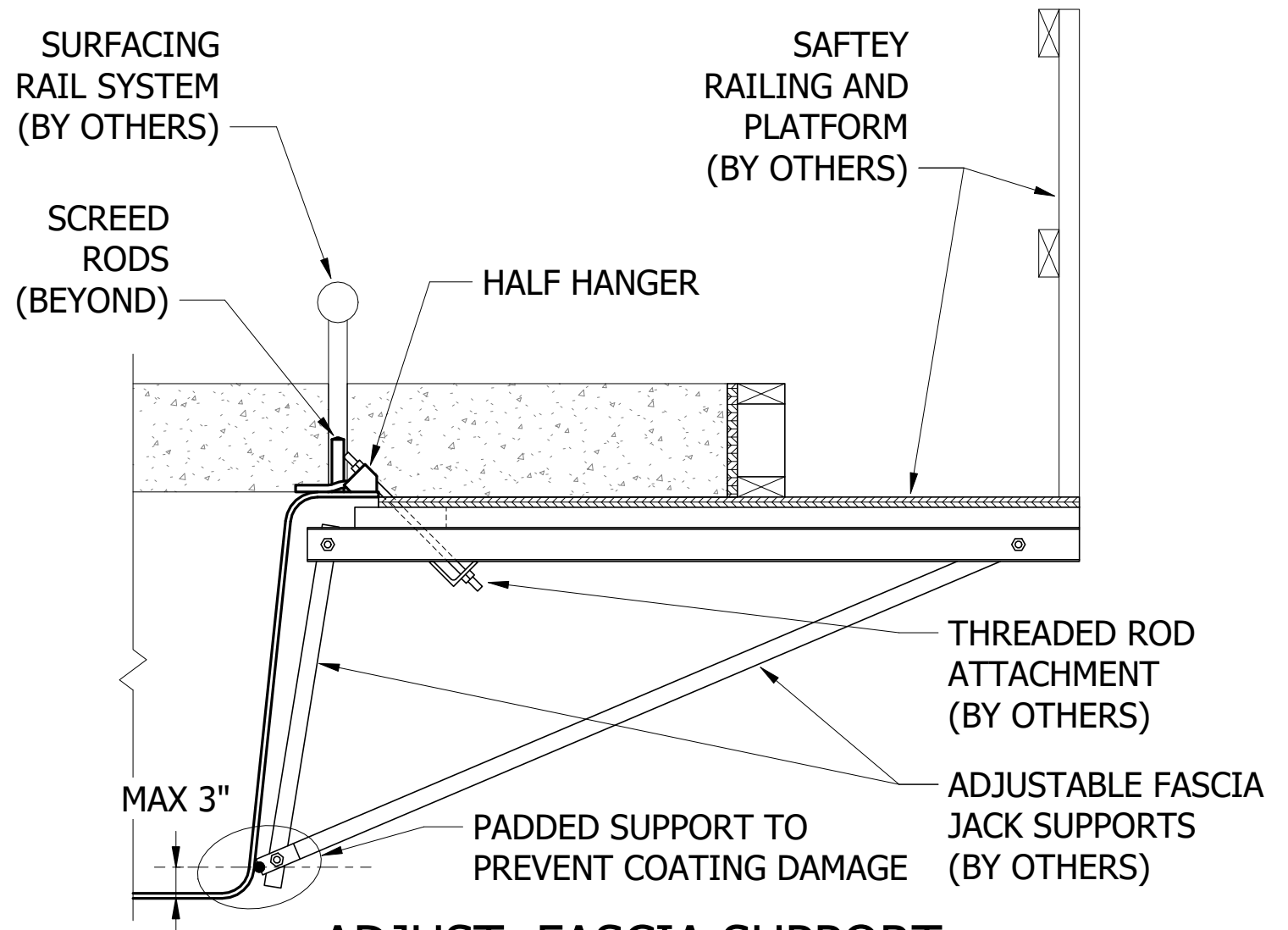
**PLAN OF ELASTOMERIC PAD**

**ELEVATION**

**BEARING PAD DETAIL**



**ISOMETRIC VIEW**  
(TYP)



**ADJUST. FASCIA SUPPORT**  
(RECOMMENDED ASSEMBLY - ALTERNATE SYSTEMS AVAILABLE)

JOB	IMPERIAL CO., CA. DOGWOOD ROAD OVER CENTRAL MAIN CANAL BRIDGE NO: 58C-0226 / COUNTY PROJECT 6222
TITLE	SUBMITTAL DETAILS

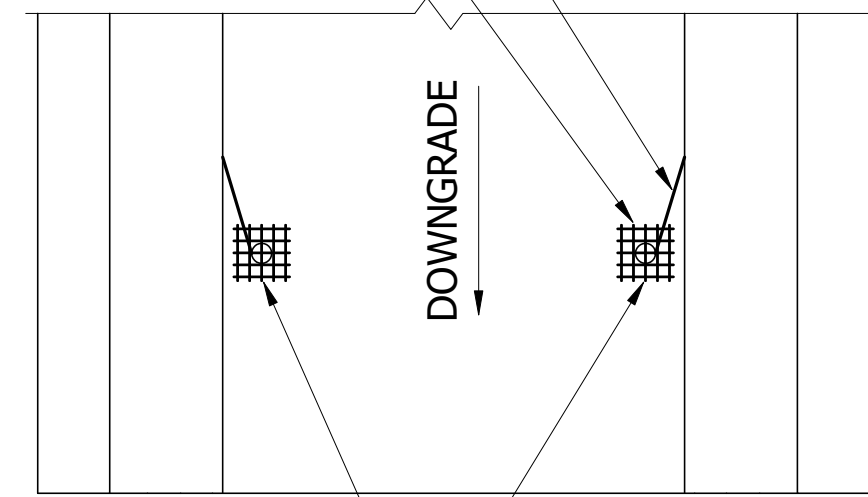
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DRAWING NUMBER	529039P1
REV	

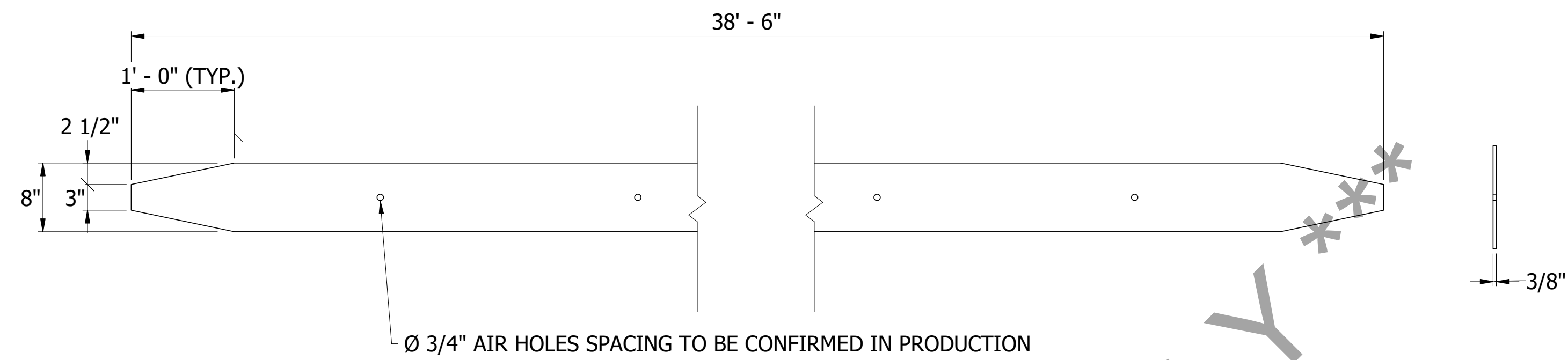
CAULKING TO BE APPLIED TO  
BOTTOM FLANGE TO DIRECT  
FLOW TOWARDS DRAIN HOLE  
(TYP ALL DRAIN HOLES)

FIELD INSTALLED SCREEN  
USING ADHESIVE



MESH SCREEN TO  
COVER WEEP HOLES

**MESH DETAIL**



**COVER PLATE**

\*\*\* PRELIMINARY FOR INFORMATION ONLY \*\*\*

JOB IMPERIAL CO., CA.  
DOGWOOD ROAD OVER CENTRAL MAIN CANAL  
BRIDGE NO: 58C-0226 / COUNTY PROJECT 6222

TITLE SUBMITTAL DETAILS

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