

FIELD USE

ISOMETRIC VIEW

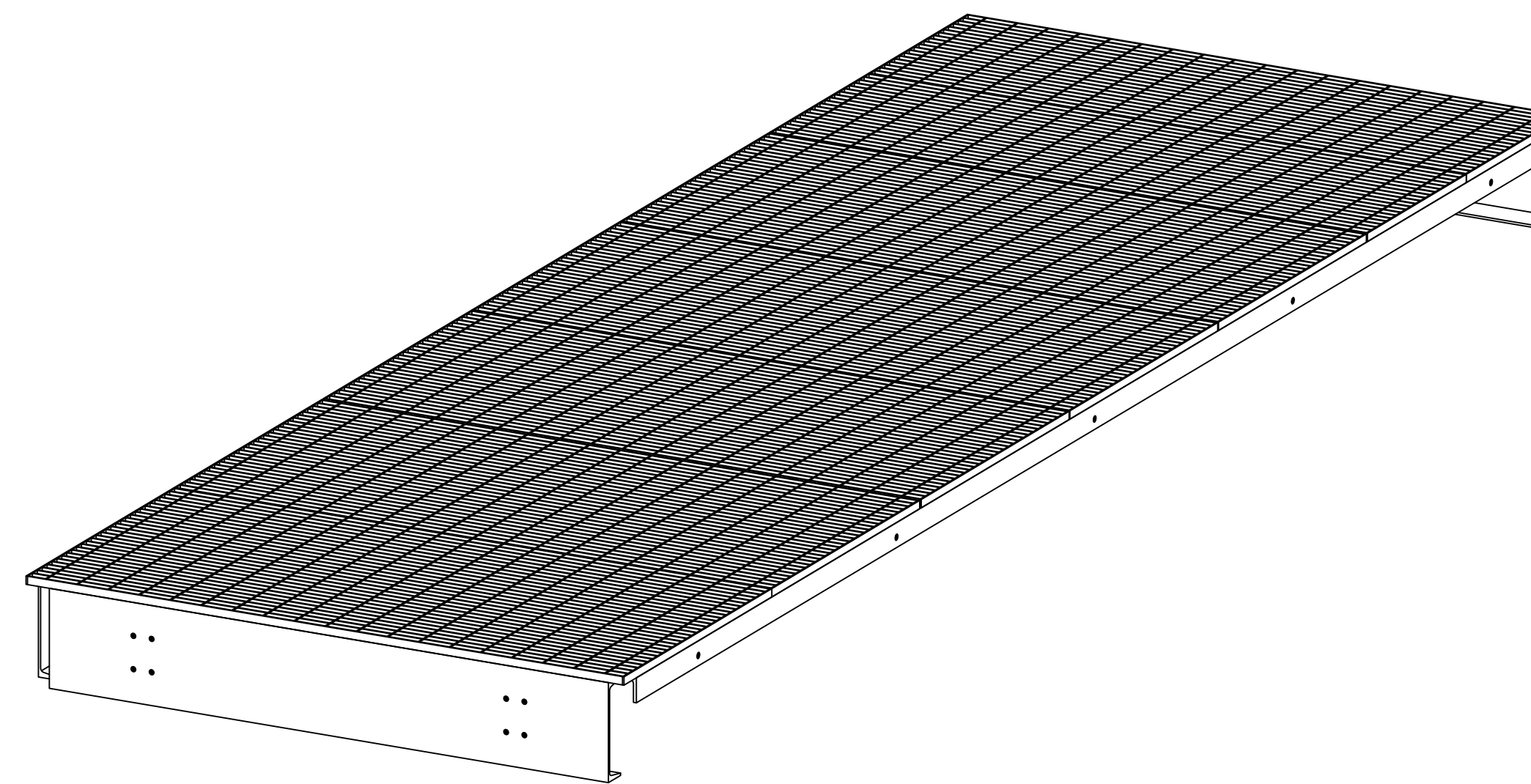
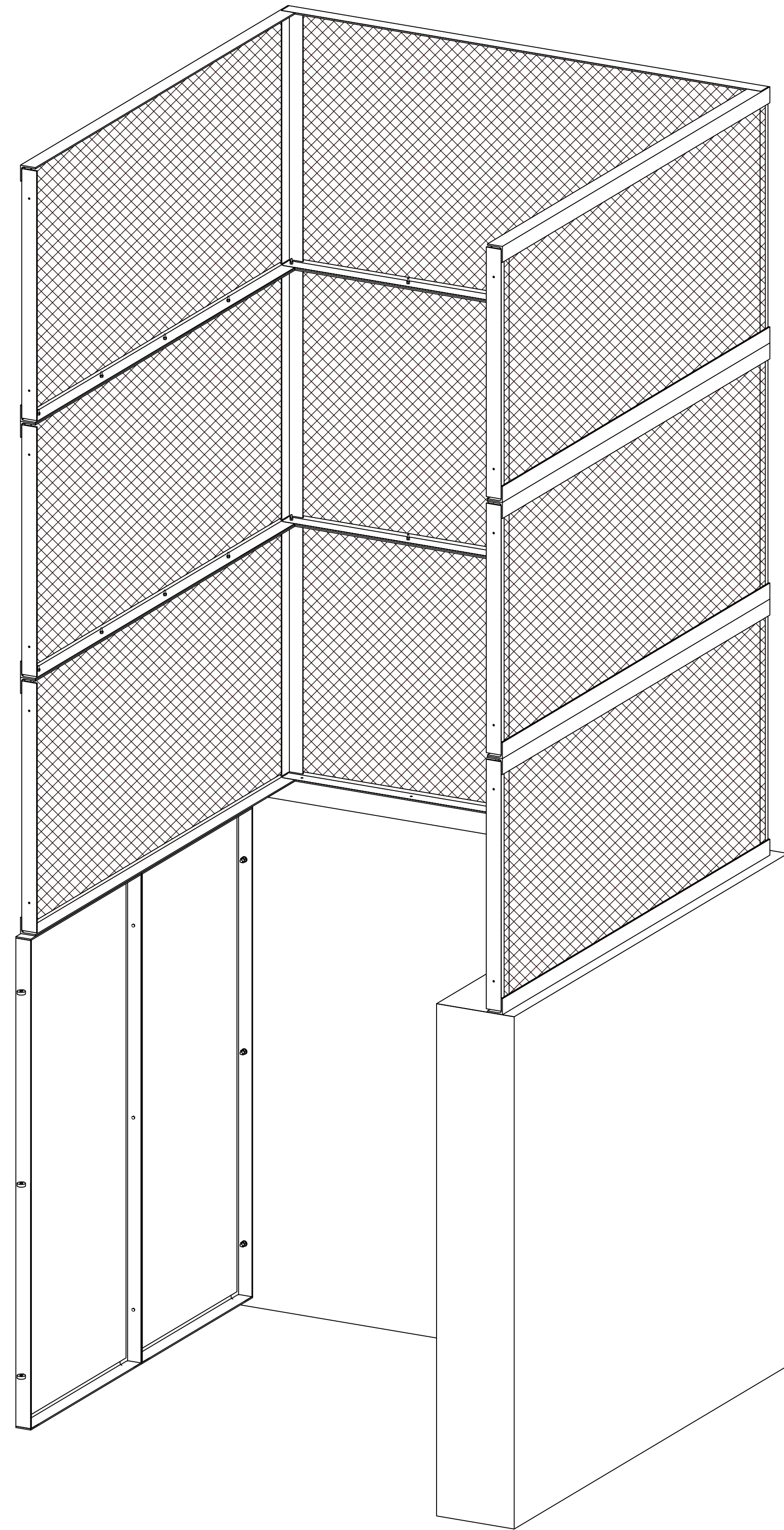
ERECTOR'S NOTE
 STEEL IS FABRICATED WITH "ERECTION MARKS" ON LEFT HAND END OF MEMBERS

THIS PLAN IS TO BE USED FOR THE SETTING OF STRUCTURAL & MISC. STEEL ONLY. IF H.S.I.'s ANCHOR BOLT SETTING PLANS WERE "NOT" FOLLOWED, THEN H.S.I. WILL "NOT" BE RESPONSIBLE FOR STEEL THAT WILL NOT FIT OR IS UNABLE TO BE PLUMBED...

THIS PROJECT SHALL BE ERECTED PER THE AISC CODE OF STANDARD PRACTICE SPECIFICALLY PARAGRAPH 7.12 AS FOLLOWS:
 7.12 CORRECTION OF ERRORS
 NORMAL ERECTION OPERATIONS INCLUDE THE CORRECTION OF MINOR MISFITS BY MODERATE AMOUNTS OF REAMING, CHIPPING, WELDING OR CUTTING, AND THE DRAWING OF ELEMENTS INTO LINE THROUGH THE USE OF DRIFT PINS. ERRORS WHICH CANNOT BE CORRECTED BY THE FOREGOING MEANS, OR WHICH REQUIRE MAJOR CHANGES IN MEMBER CONFIGURATIONS, ARE TO BE REPORTED TO THE OWNER AND FABRICATOR BY THE ERECTOR, TO ENABLE WHOEVER IS RESPONSIBLE EITHER TO CORRECT THE ERROR OR TO APPROVE THE MOST EFFICIENT AND ECONOMIC METHOD OF CORRECTION TO BE USED BY OTHERS.
 NO BACKCHARGES WILL BE ACCEPTED UNLESS APPROVED IN WRITING BY THIS OFFICE.

REV.	DATE	DESCRIPTION	PRINTS	NO.	DATE
0	06-14	FOR FIELD USE	FIELD USE		
A	12-10	FOR APPROVAL	APPROVAL		

JOB _____		Norfolk Stormwater Pump Station#12	
LOCATION _____		At Hampton Blvd. Underpass, Norfolk, Virginia	
CUSTOMER _____			
DRWG. COVERS _____		ISOMETRIC VIEW	
DETAILER: JB	DATE: 12-04-21	JOB NO.	DRWG. NO.
CHECKER: ALN	DATE: 12-04-21		V100



ISOMETRIC VIEW

FIELD USE

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A	12-10	FOR APPROVAL	APPROVAL			

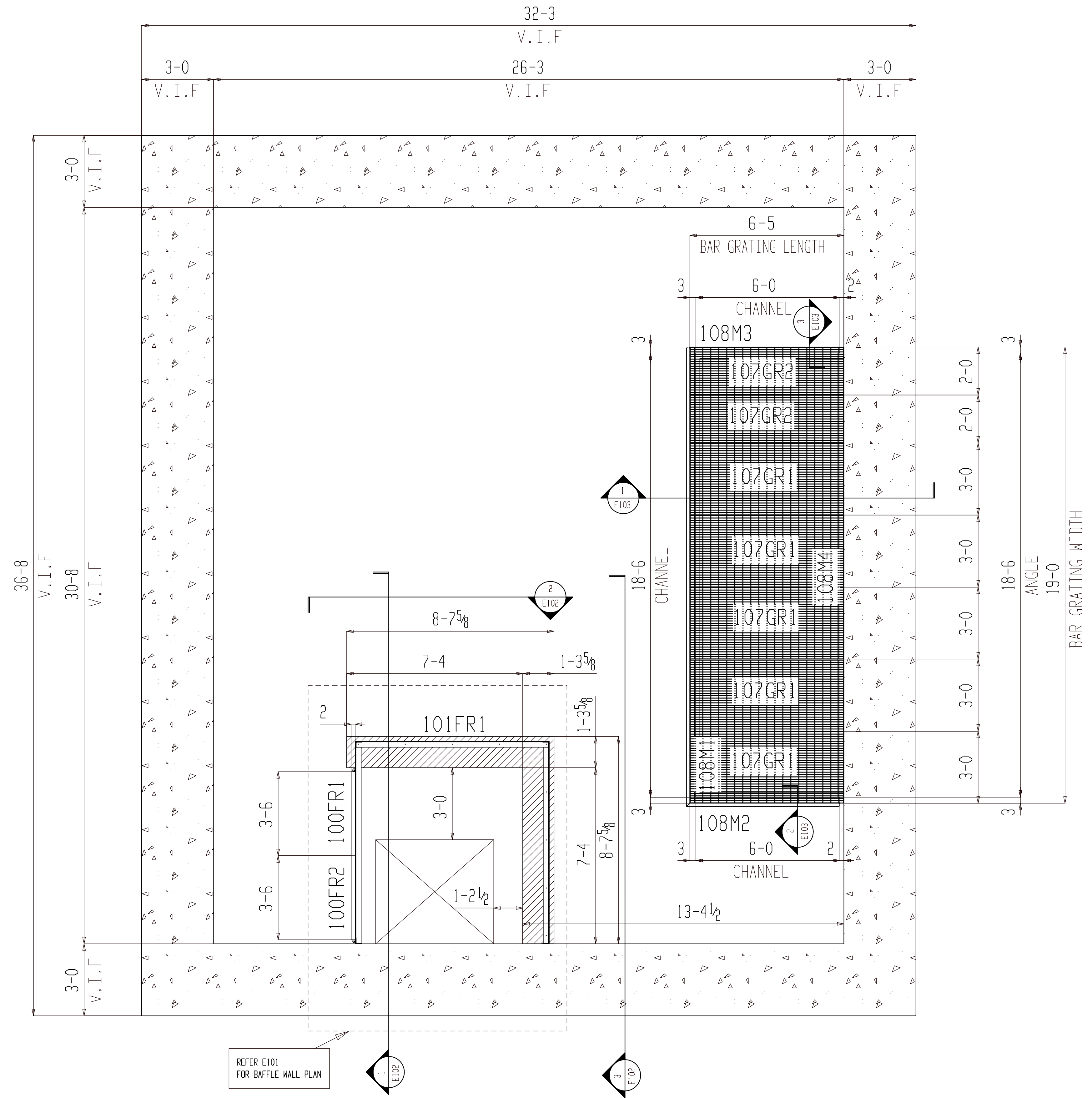
JOB: Norfolk Stormwater Pump Station# 12

LOCATION: At Hampton Blvd. Underpass, Norfolk, Virginia

CUSTOMER: _____

DRWG. COVERS: ISOMETRIC VIEW

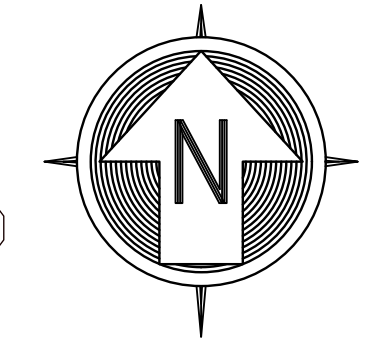
DETAILER: JB	DATE: 12-04-21	JOB NO.	DRWG. NO.
CHECKER: ALN	DATE: 12-04-21		V101



WET WELL PLAN VIEW

PLAN AT ELEVATION -27-11 (DATUM ELEVATION AT 0-0)
FOR ELEVATION (REFER SECTION)
(REFER: C-201 & S-1)

V.I.F. : VERIFY IN FIELD



PLAN NORTH

FIELD USE

ERECTOR'S NOTE
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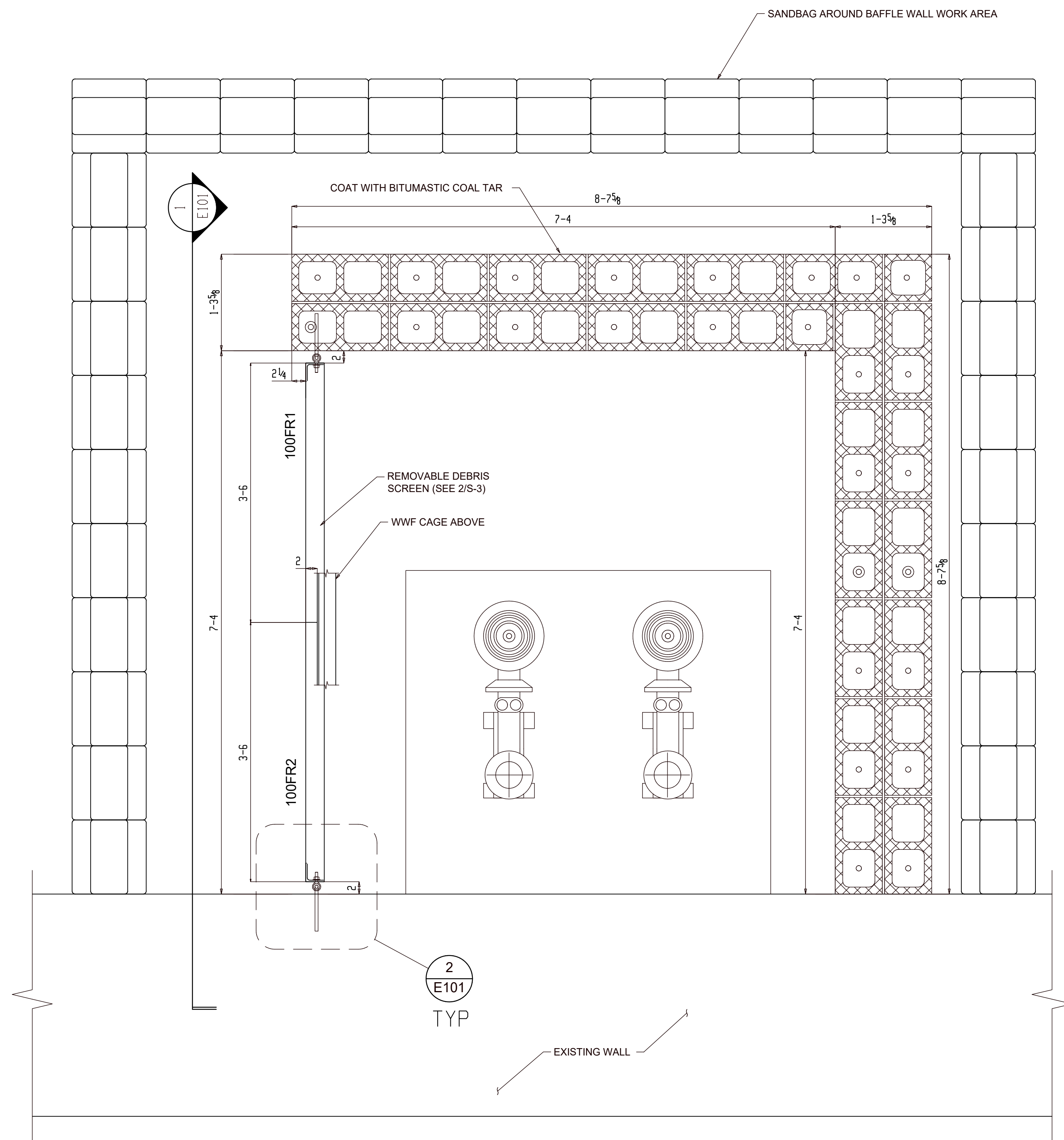
JOB: Norfolk Stormwater Pump Station#12

LOCATION: At Hampton Blvd. Underpass, Norfolk, Virginia

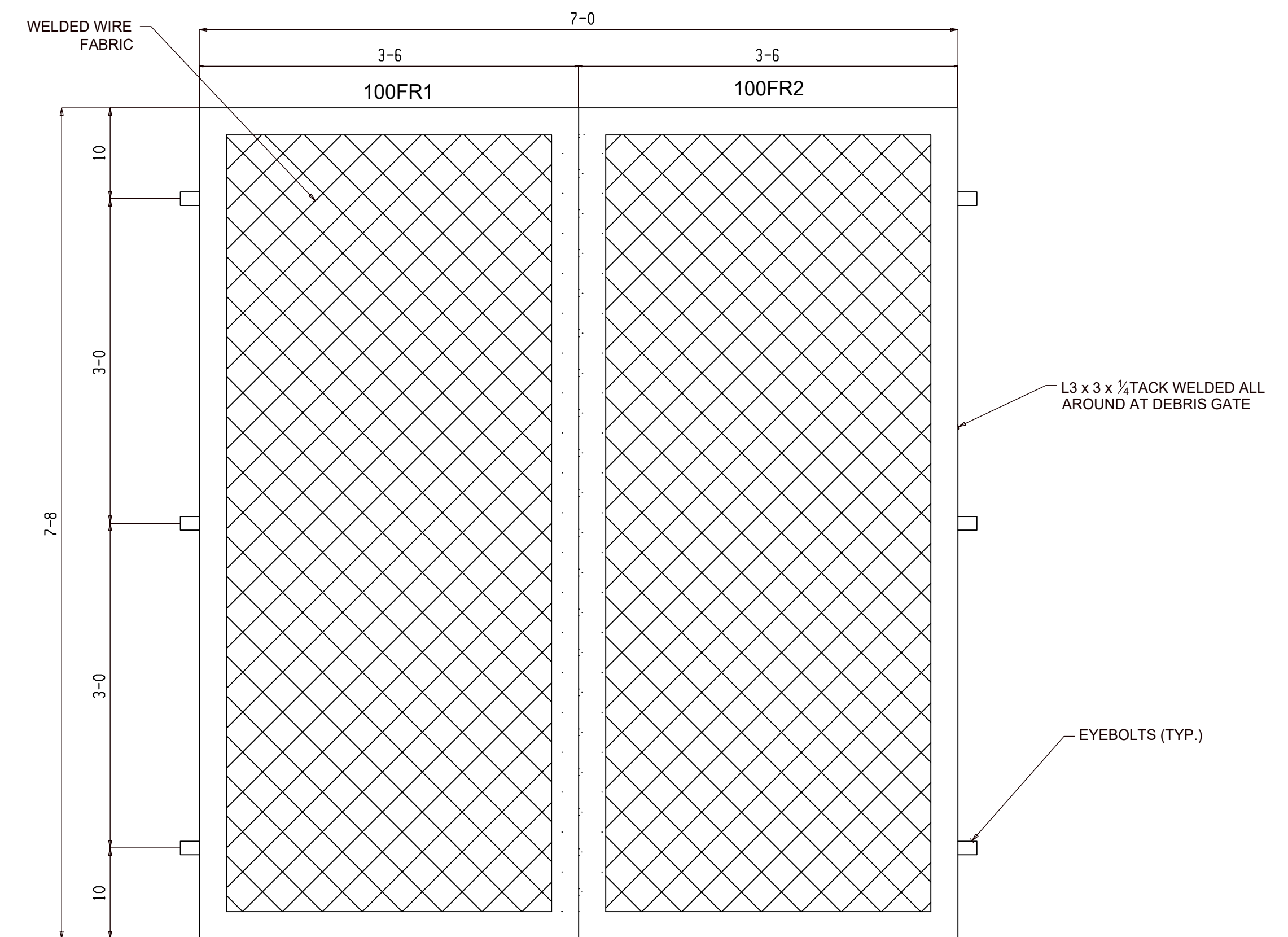
CUSTOMER: _____

DRWG. COVERS: WET WALL PLAN VIEW

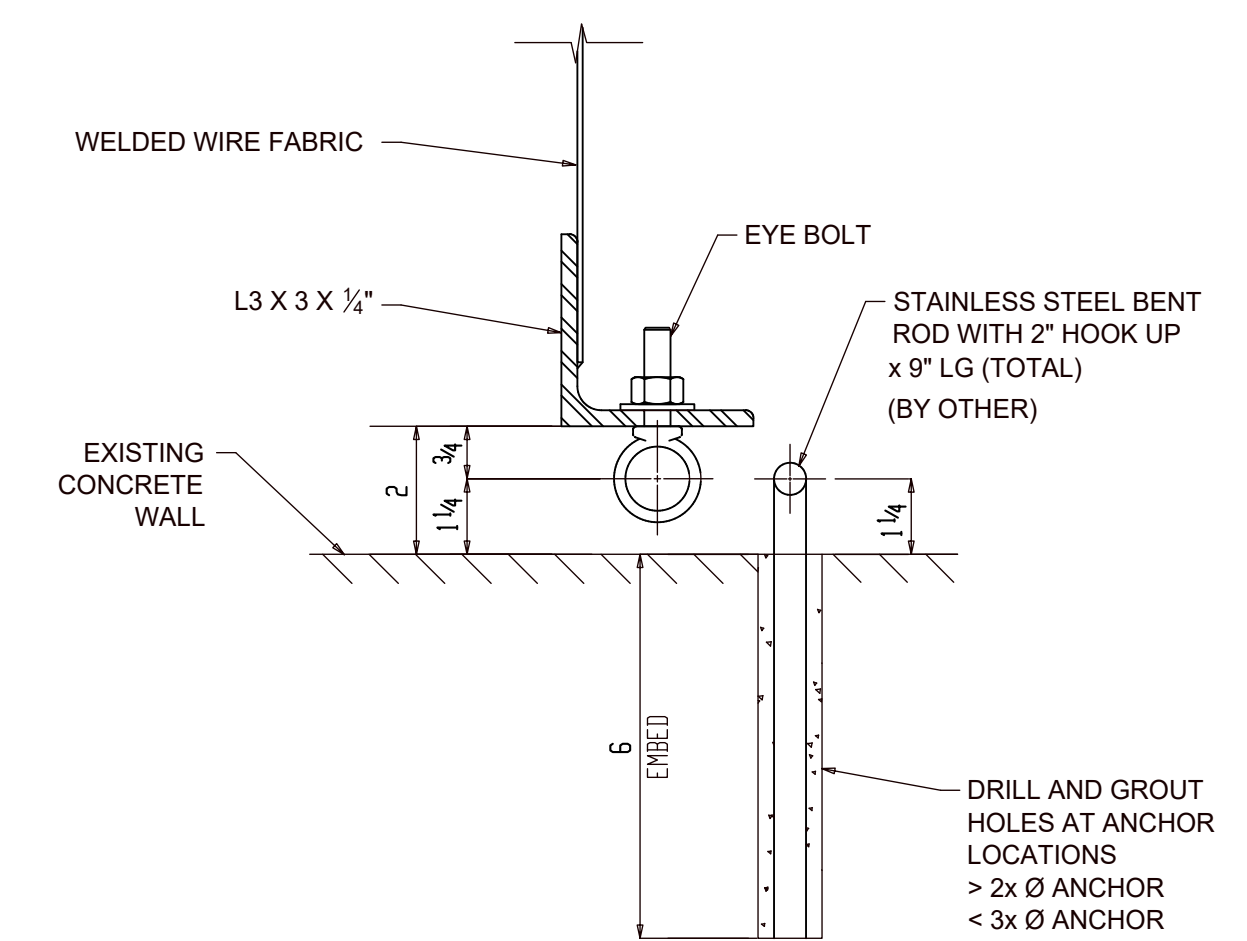
DETAILER: JB	DATE: 12-04-21	JOB NO.:	DRWG. NO.:
CHECKER: ALN	DATE: 12-04-21		E100



BAFFLE WALL PLAN
(REFER: 1/S-2)



REMOVABLE DEBRIS SCREEN ELEVATION
(REFER: 2/S-2)



REMOVABLE DEBRIS SCREEN CONNECTION
(REFER: 3/S-2)

FIELD USE

ERECTOR'S NOTE
STEEL IS FABRICATED WITH "ERECTION MARKS" ON LEFT HAND END OF MEMBERS

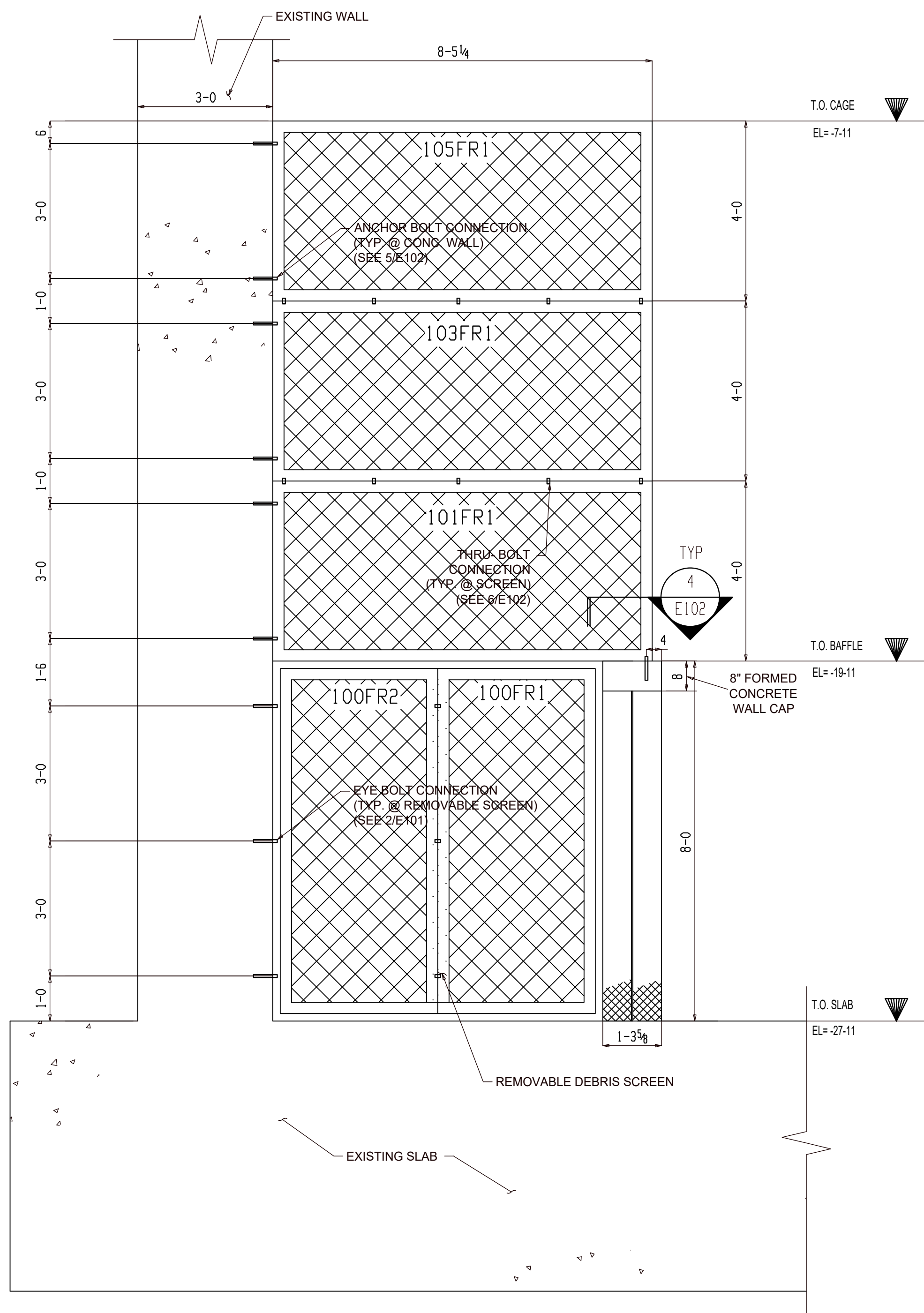
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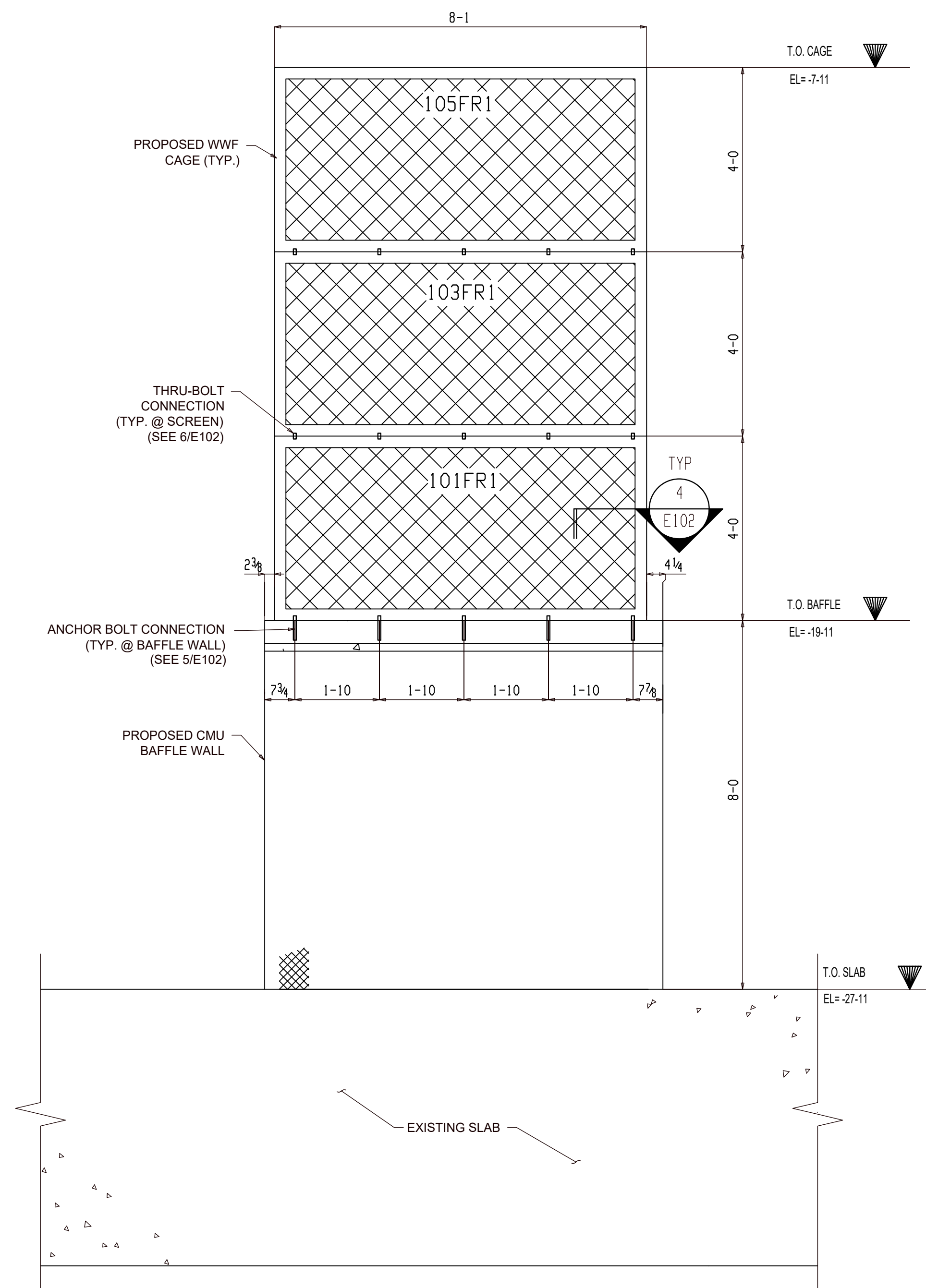
REV.	DATE	DESCRIPTION	PRINTS	NO.	DATE
0	06-14	FOR FIELD USE	FIELD USE		
A	12-10	FOR APPROVAL	APPROVAL		

JOB: Norfolk Stormwater Pump Station# 12
LOCATION: At Hampton Blvd. Underpass, Norfolk, Virginia
CUSTOMER:
DRWG. COVERS: BAFFLE WALL PLAN

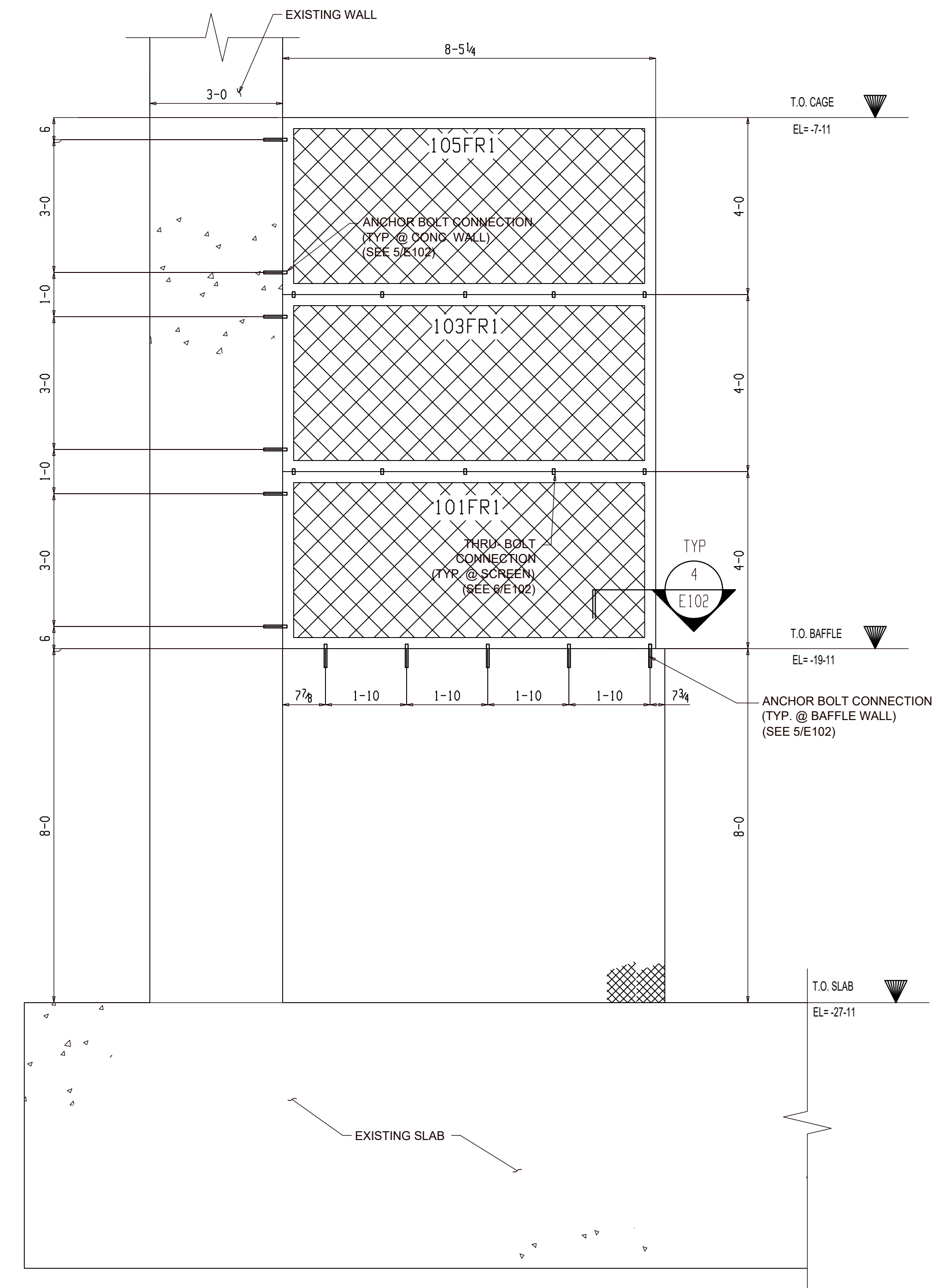
DETAILER: JB	DATE: 12-04-21	JOB NO.	DRWG. NO.
CHECKER: ALN	DATE: 12-04-21		E101



1 Baffle/Screen Section
E102 (REFER: 1/S-4)

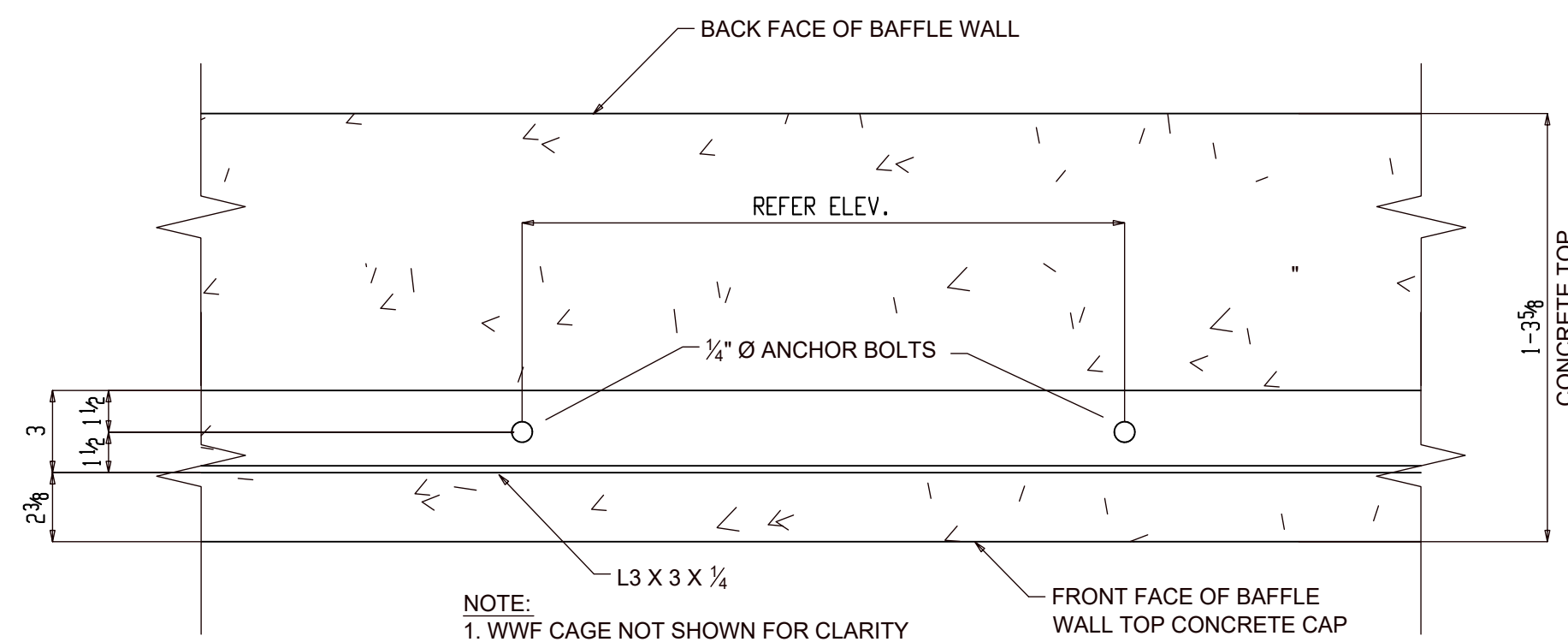


2 Baffle/Screen Elevation
E102 (REFER: 2/S-4)

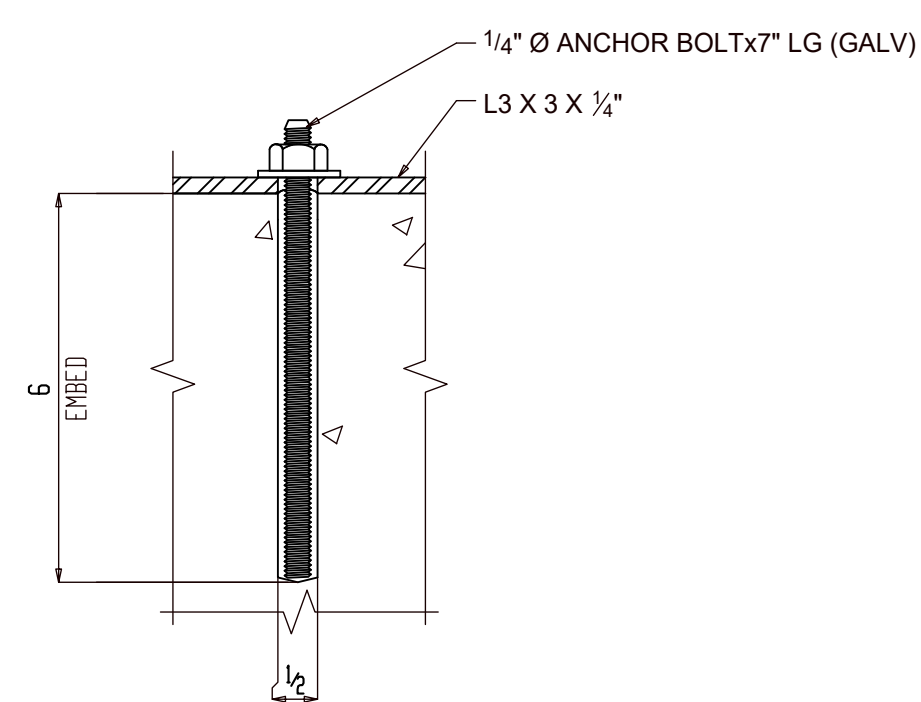


3 Baffle/Screen Elevation
E102

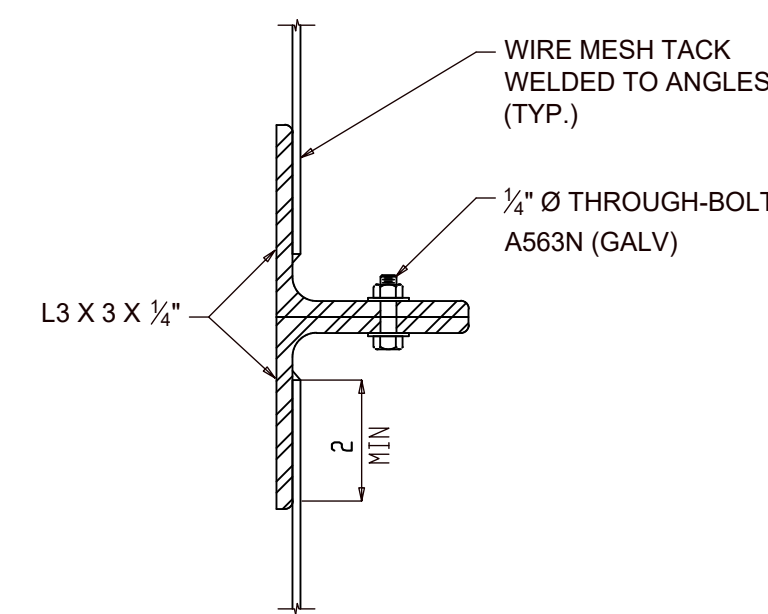
FIELD USE



4 Anchor Bolt Layout
E102 (REFER: 3/S-4)



5 Anchor Bolt Connection
E102 (REFER: 4/S-4)



6 Debris Screen Connection
E102 (REFER: 5/S-4)

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JOB: Norfolk Stormwater Pump Station#12

LOCATION: At Hampton Blvd. Underpass, Norfolk, Virginia

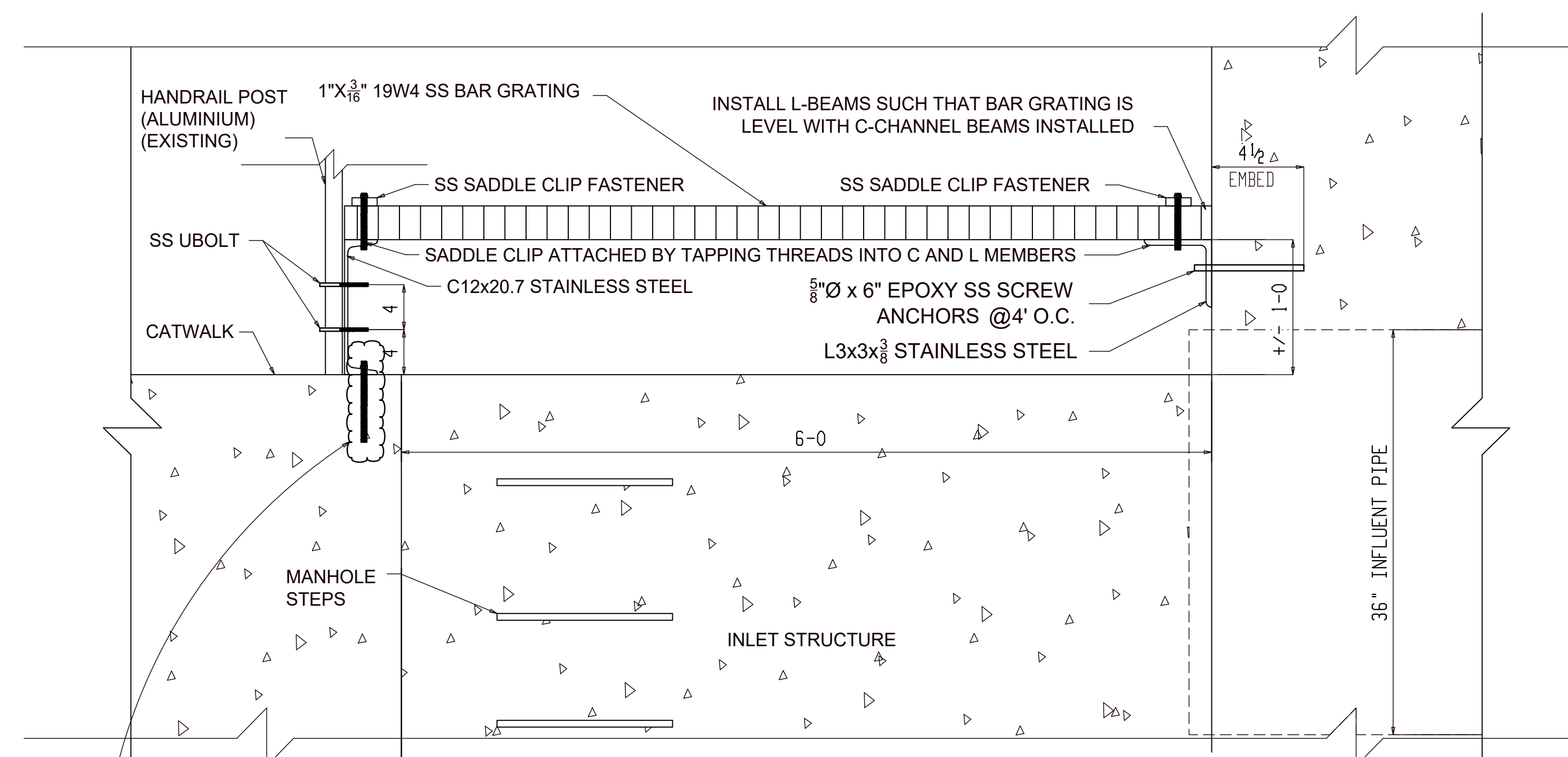
CUSTOMER: BAFFLE/SCREEN SECTION AND DETAILS

DRWG. COVERS: BAFFLE/SCREEN SECTION AND DETAILS

DETAILER: JB DATE: 12-04-21

CHECKER: ALN DATE: 12-04-21

JOB NO. DRWG. NO. E102

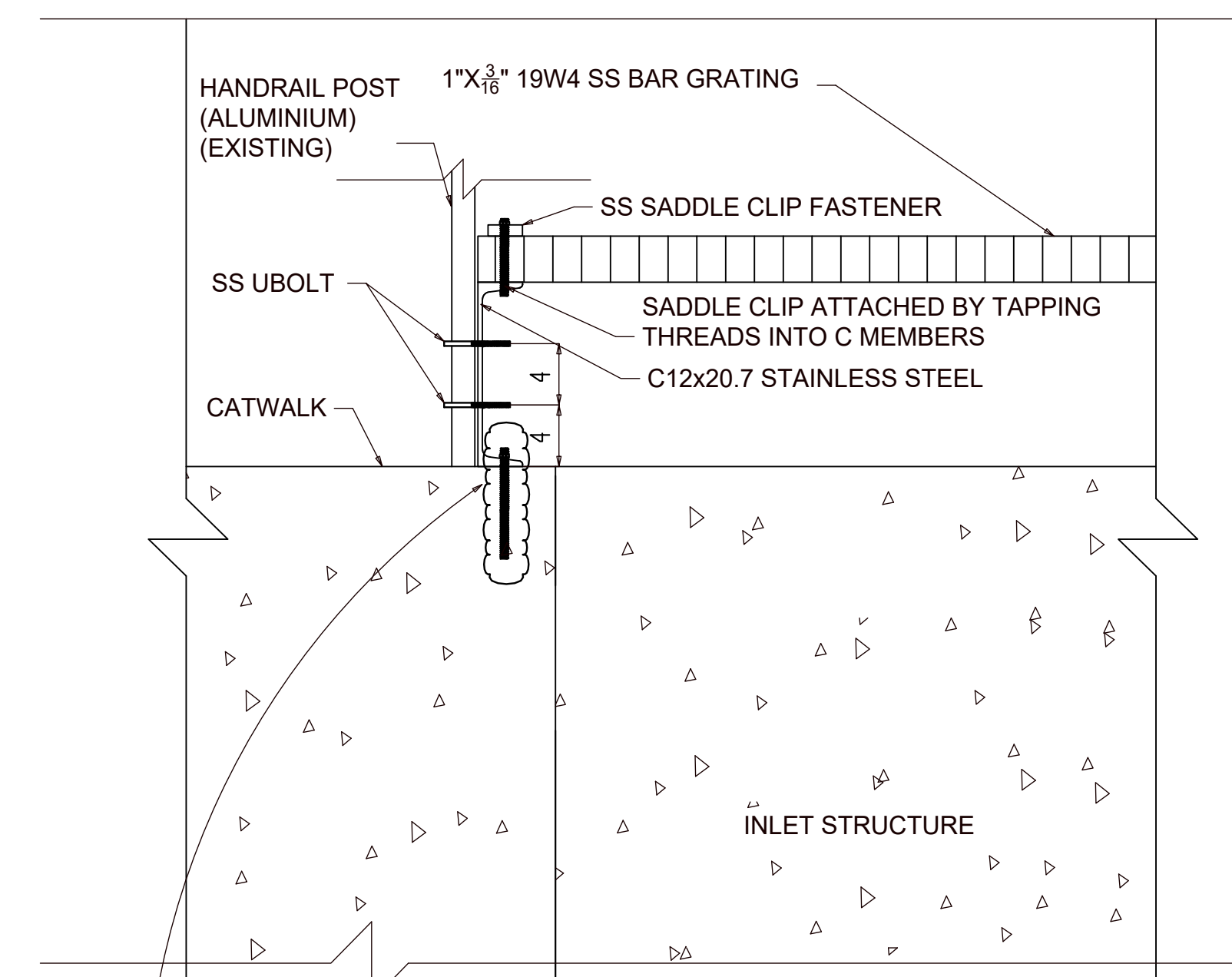


FIELD VERIFY ANCHOR BOLT REQUIREMENT

1
E103
BAR GRATE DEBRIS SCREEN SECTION DETAIL
(REFER: BG-A/C-201)

DELETED

4
E103
HANDRAIL VIEW

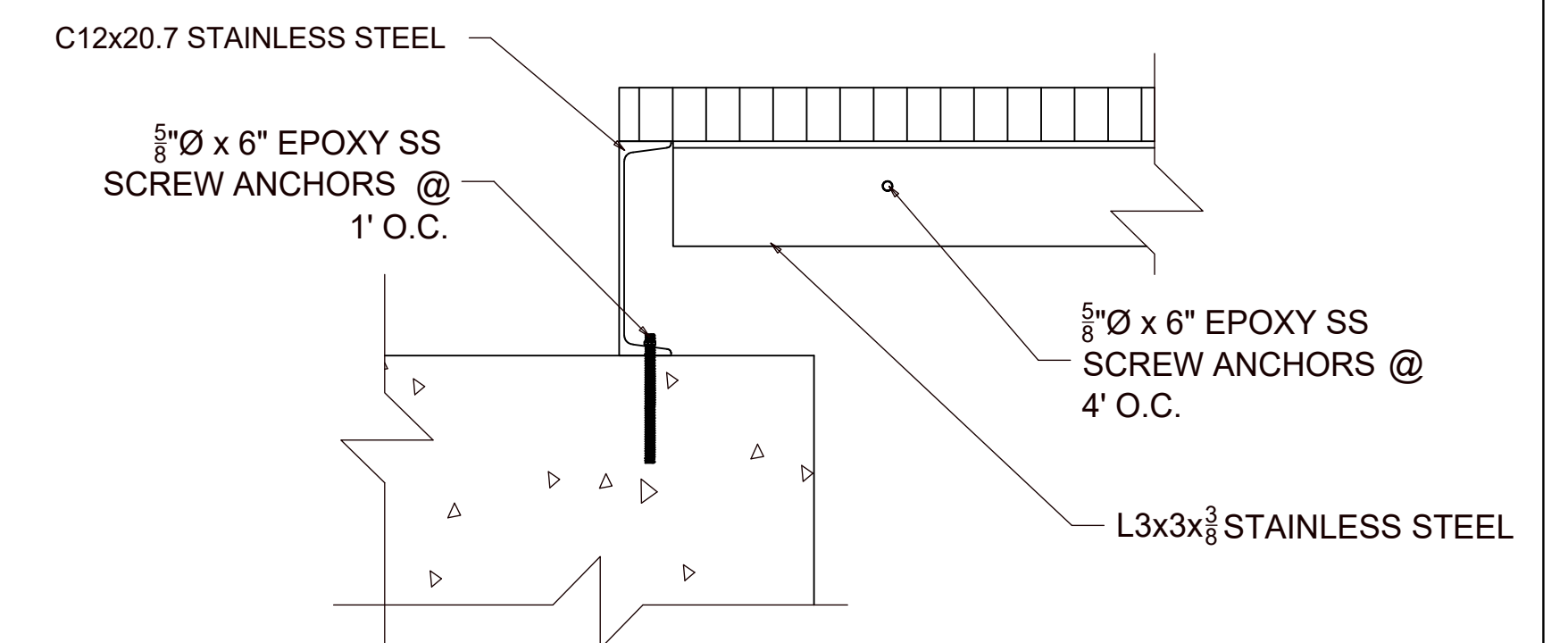


FIELD VERIFY ANCHOR BOLT REQUIREMENT

2
E103
BAR GRATE DEBRIS SCREEN SECTION DETAIL
(REFER: BG-A/C-201)

DELETED

5
E103
HANDRAIL VIEW



3
E103
BAR GRATE DEBRIS SCREEN SECTION DETAIL
(REFER: BG-B/C-201)

FIELD USE

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A	12-10	FOR APPROVAL	APPROVAL		

JOB: Norfolk Stormwater Pump Station#12

LOCATION: At Hampton Blvd. Underpass, Norfolk, Virginia

CUSTOMER: _____

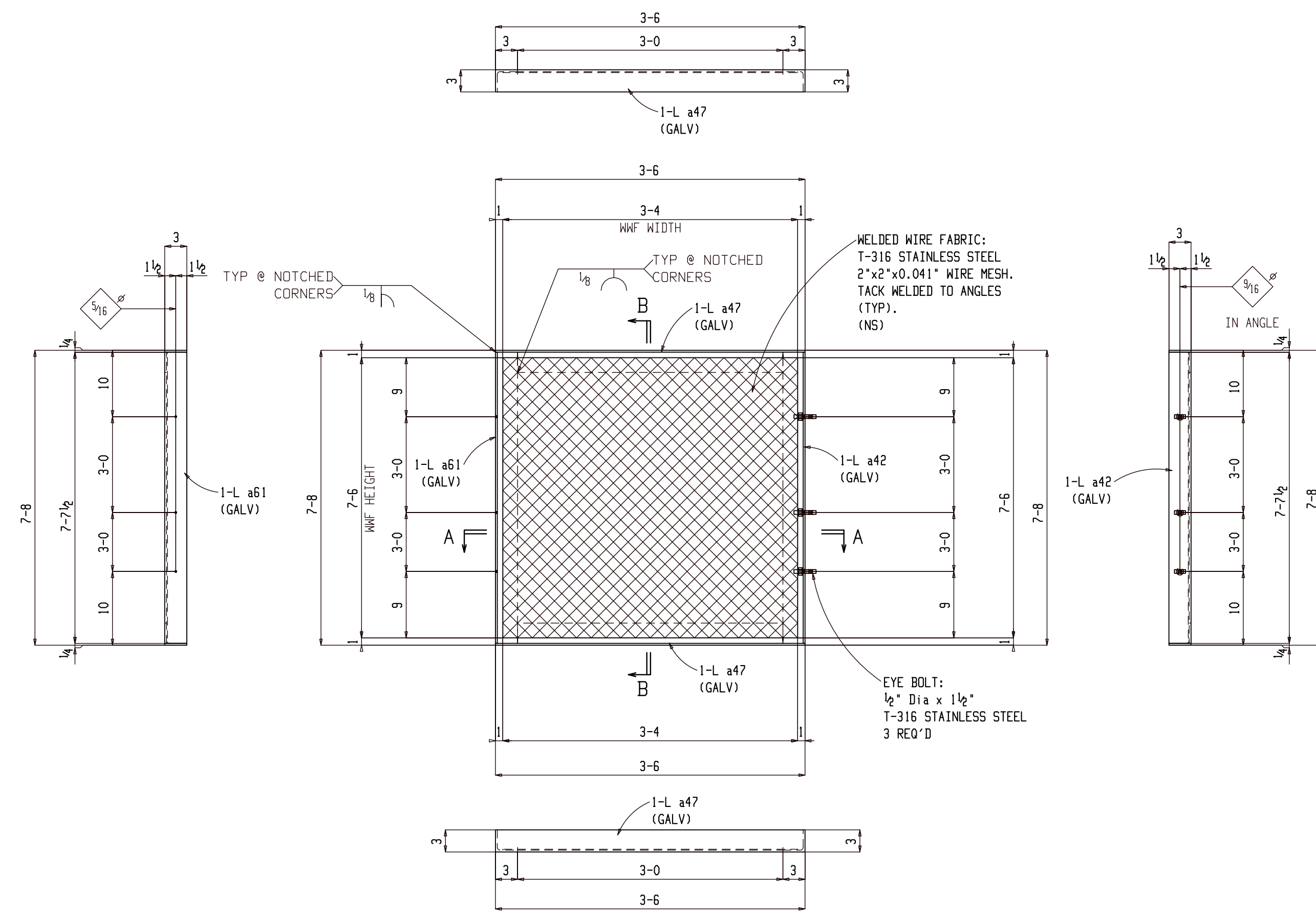
DRWG. COVERS: BAFFLE/SCREEN SECTION AND DETAILS

DETAILER: JB DATE: 12-04-21

CHECKER: ALN DATE: 12-04-21

JOB NO. _____

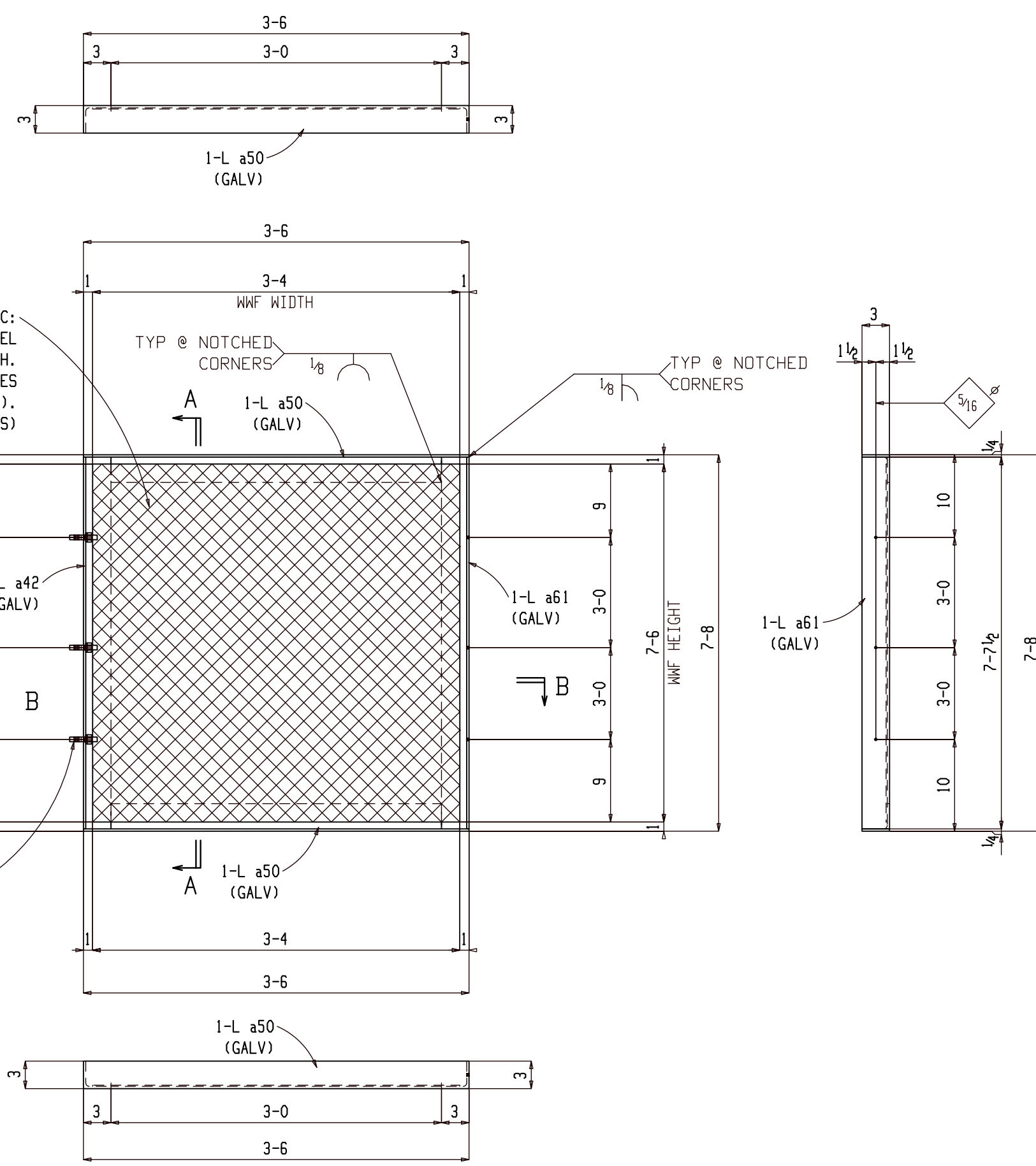
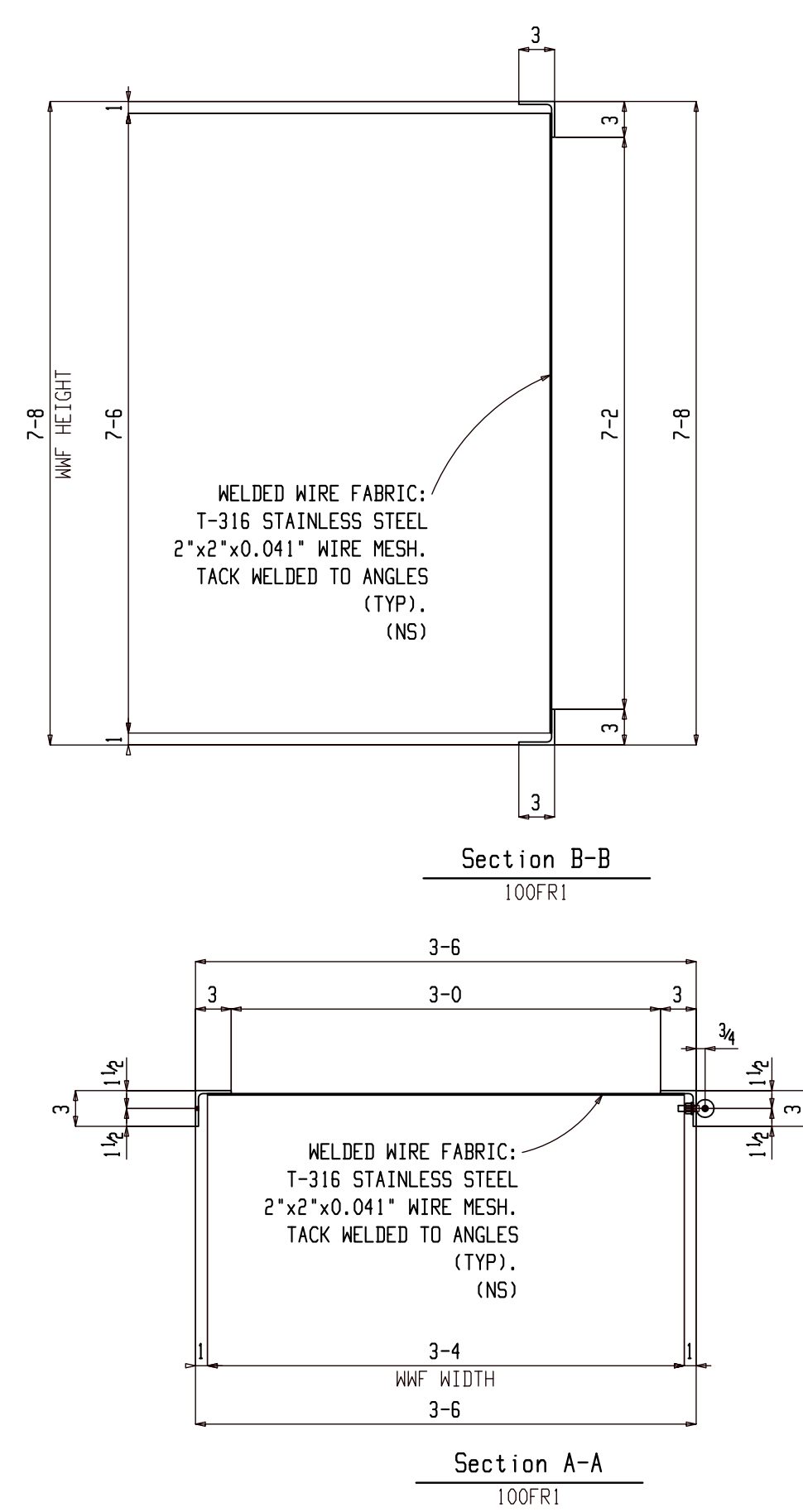
DRWG. NO. E103



ONE REMOVABLE DEBRIS SCREEN 100FR1

(E REFER: E100)
(S REFER: S-2)

STAINLESS STEEL



ONE REMOVABLE DEBRIS SCREEN 100FR2

(E REFER: E100)
(S REFER: S-2)

STAINLESS STEEL

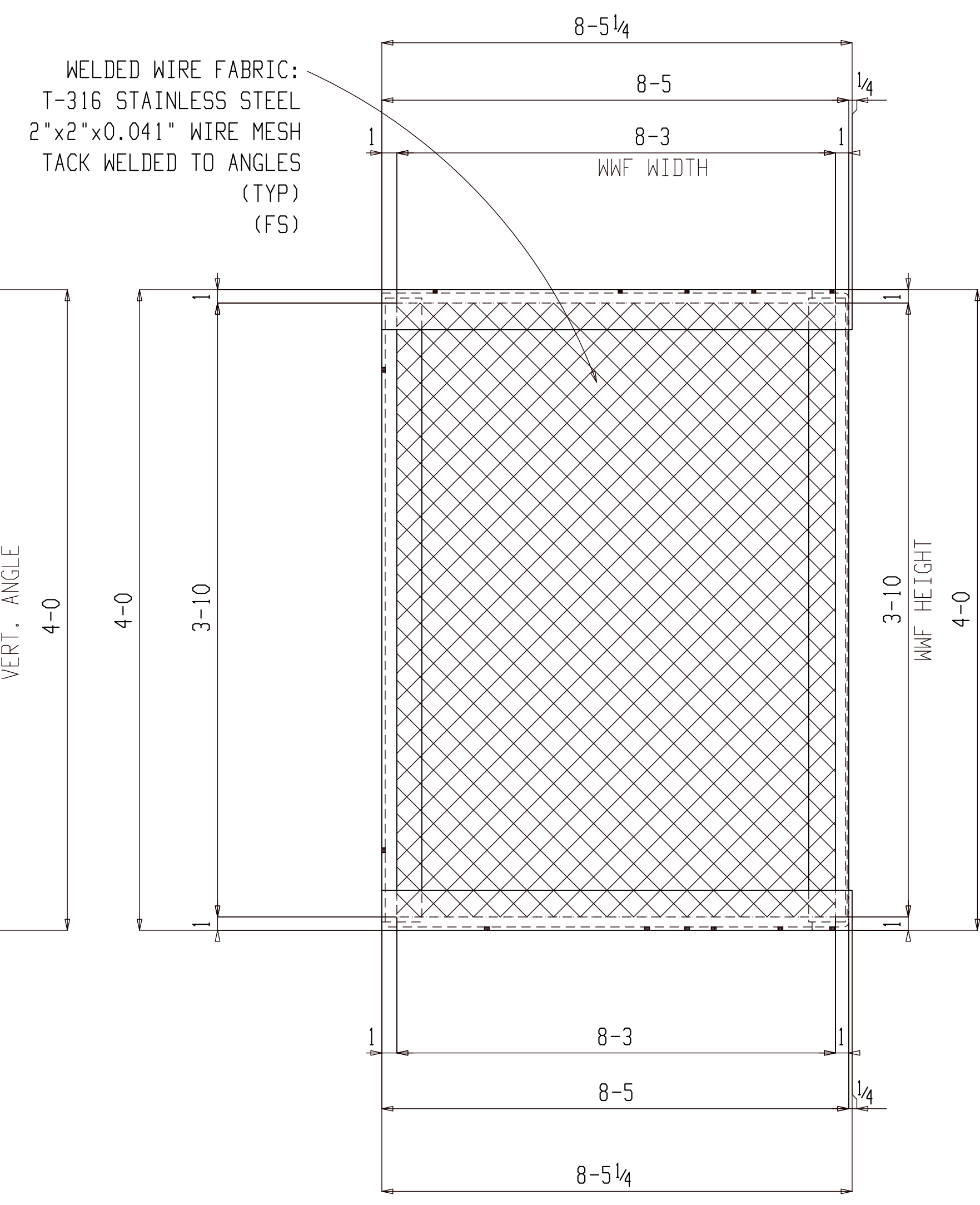
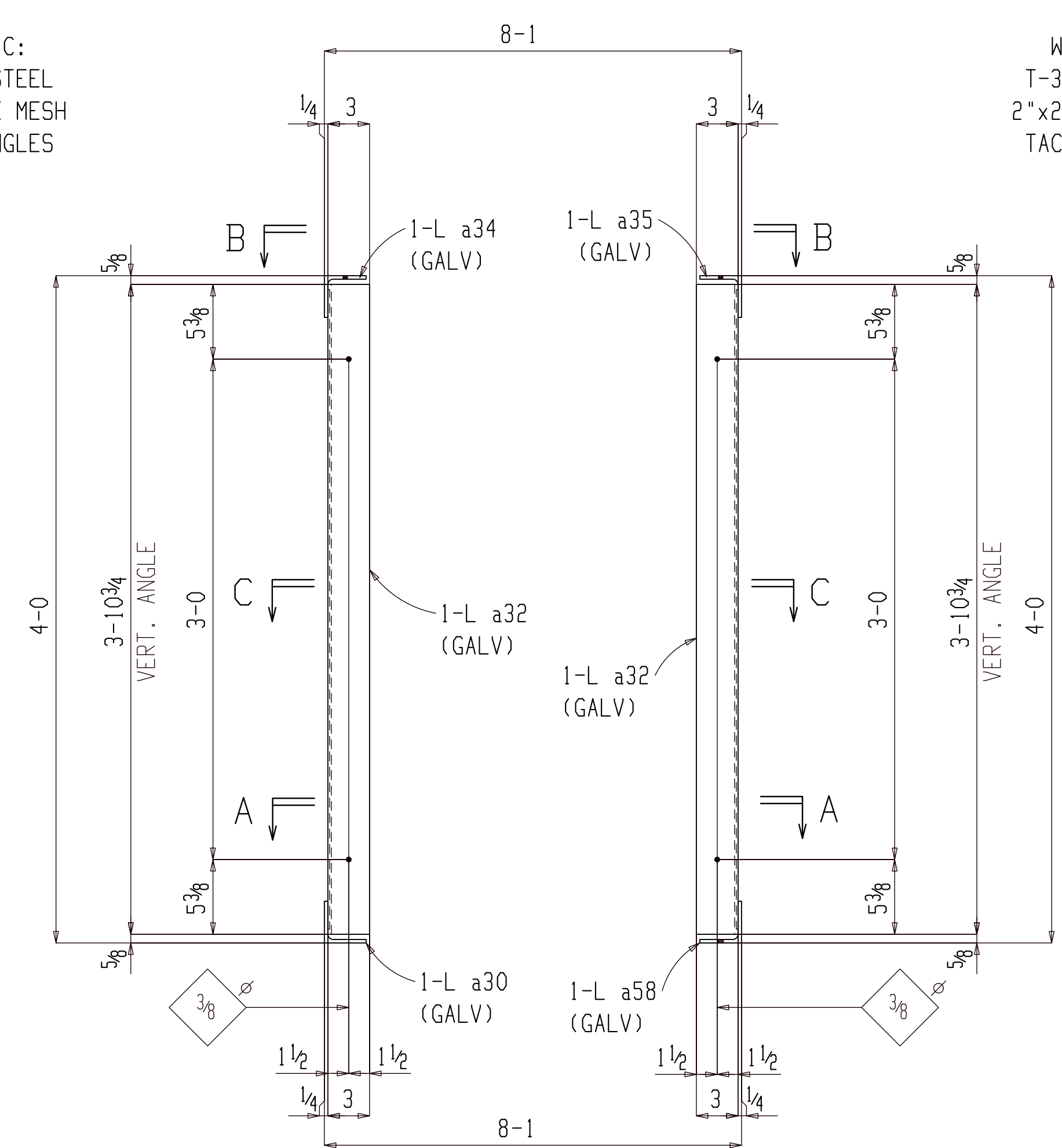
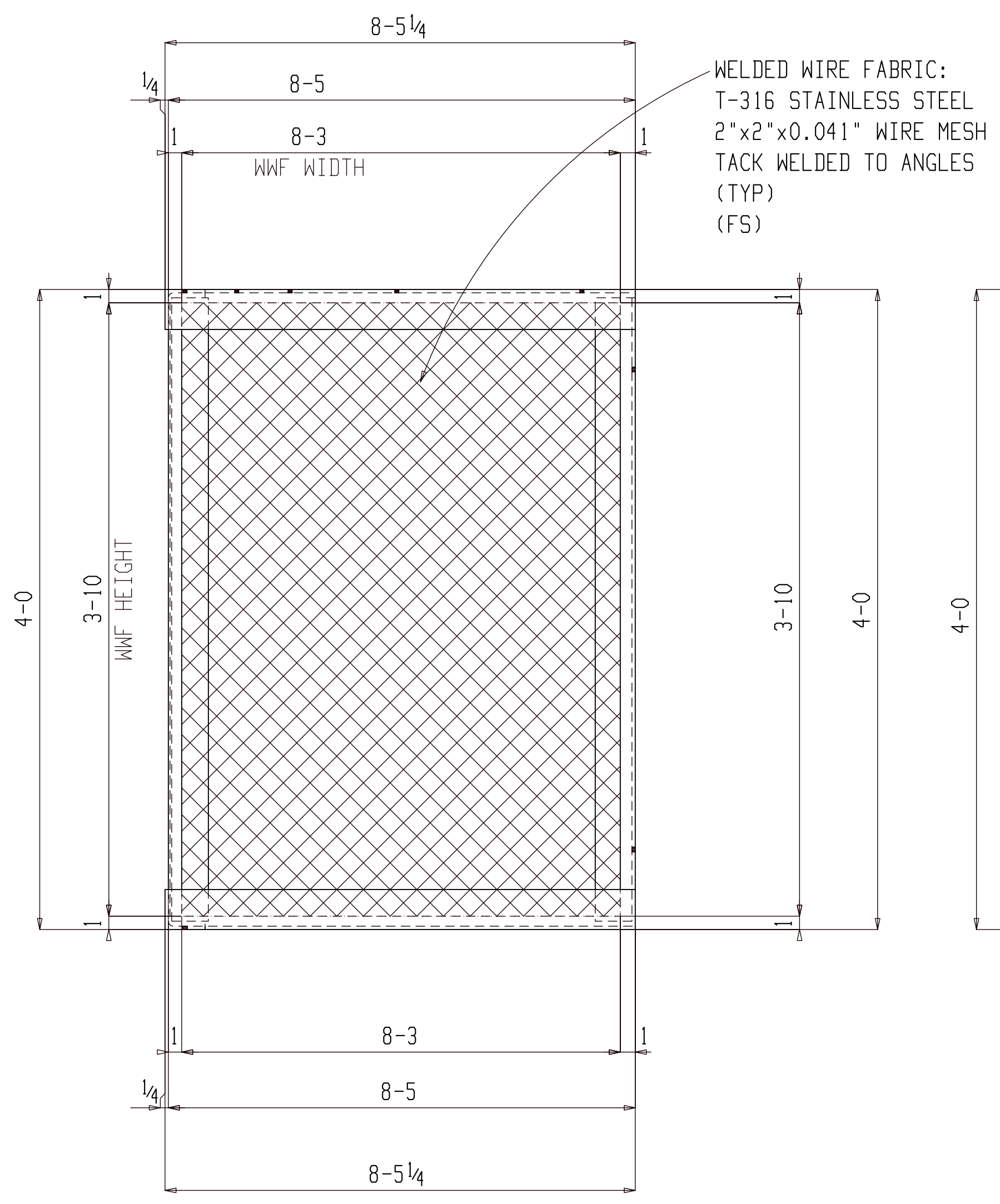
BILL OF MATERIAL				
NO. RE	ASSY M	MATERIAL	LENGTH	REMARKS
ONE		REMOVABLE DEBRIS SCREEN		
1	100FR1	HW40	7-6	(2"x2"x0.041" WIRE MESH) T-316 (SS)
2	a47	L3x3x1/4	3-6	(GALV) A36
1	a61	L3x3x1/4	7-7 1/2	(GALV) A36
1	a42	L3x3x1/4	7-7 1/2	(GALV) A36
3		1/2" Dia x 1 1/2" EYE BOLT		T-316 (SS)
3		1/2" Dia BENT ROD W/2" HOOK UP	9	(EMBED-6") (BY OTHER) T-316 (SS)
ONE		REMOVABLE DEBRIS SCREEN		
1	100FR2	HW40	7-6	(2"x2"x0.041" WIRE MESH) T-316 (SS)
2	a50	L3x3x1/4	3-6	(GALV) A36
1	a42	L3x3x1/4	7-7 1/2	(GALV) A36
1	a61	L3x3x1/4	7-7 1/2	(GALV) A36
3		1/2" Dia x 1 1/2" EYE BOLT		T-316 (SS)
3		1/2" Dia BENT ROD W/2" HOOK UP	9	(EMBED-6") (BY OTHER) T-316 (SS)
		FIELD BOLTS		
3		1/4" Dia A563		(GALV)

FABRICATION

SHOP CLEAN - SSPC-SP3 SHOP PRIME WITH 1 COAT GRAY OXIDE					
ALL MATERIAL INTD "AESS"					
SHOP CLEANING - SSPC-SP6 SHOP PRIME WITH 1 COAT GRAY PRIMER		0	06-14	FOR FABRICATION	FABRICATION
		A	12-10	FOR APPROVAL	APPROVAL
REV.	DATE	DESCRIPTION		PRINTS	NO. DATE
SHOP NOTES: MISC. SHAPES, P's & BARS - A36 STRUCTURAL STEEL SHAPES - A992 Gr 50 STRUCTURAL TUBING - A500 GR.C STEEL PIPE - A53 GR.B		JOB Norfolk Stormwater Pump Station#12			
SHOP CONNECTIONS E70XX (UN)		FIELD CONNECTIONS A325 "N" (UN)		LOCATION At Hampton Blvd. Underpass, Norfolk, Virginia	
ALL SHOP HOLES TO BE 1/8" (UN)					
SHOP NOTES: ALL STUBS ARE FROM FACE OF CLIP ANGLES ALL HOLE SPACING 3" C/C UNLESS NOTED ALL BLOCK SIZES FROM FACE OF CLIP ANGLES ALL REAR ENTRANT CUTS HAVE A MINIMUM OF 1/2" RADIUS CUTS.					
DETAILER: JB		DATE: 12-04-21		JOB NO.	
CHECKER: ALN		DATE: 12-04-21		DRWG. NO. 100	

BILL OF MATERIAL

NO. RE	ASSY M	MATERIAL	LENGTH	REMARKS
ONE		DEBRIS SCREEN (ABOVE BAFFLE)		
1	101FR1	WWF46	7-10 1/2	(2"x2"x0.041" WIRE MESH) T-316 (SS)
2		WWF46	8-3	(2"x2"x0.041" WIRE MESH) T-316 (SS)
1	a54	L3x3x1/4	8-0 1/2	(GALV) A36
1	a30	L3x3x1/4	8-5 1/4	(GALV) A36
1	a34	L3x3x1/4	8-5 1/4	(GALV) A36
1	a35	L3x3x1/4	8-5 1/4	(GALV) A36
1	a58	L3x3x1/4	8-5 1/4	(GALV) A36
1	a33	L3x3x1/4	8-0 1/2	(GALV) A36
2	a32	L3x3x1/4	3-10 3/4	(GALV) A36
2	a29	L3x3x1/4	3-10 1/4	(GALV) A36
		FIELD BOLTS		
14		1/4" Dia HILTI HIT-V ROD ANCHOR	7	EMBED=6" (GALV)



ONE DEBRIS SCREEN (ABOVE BAFFLE) 101FR1

(E REFER: E102)
(S REFER: S-4 & S-5)

STAINLESS STEEL

FABRICATION

WORK THIS SHEET WITH SHEET 102

SHOP CLEAN - SPPC-SP3
SHOP PRIME WITH 1 COAT GRAY OXIDE
ALL MATERIAL INT'D "AESS"
SHOP CLEANING - SPPC-SP6
SHOP PRIME WITH 1 COAT GRAY PRIMER

STEEL NOTES:
MISC. SHAPES, P's & BARS - A36
STRUCTURAL STEEL SHAPES - A992 Gr 50
STRUCTURAL TUBING - A500 GR.C
STEEL PIPE - A53 GR.B

SHOP CONNECTIONS E70XX (UN) FIELD CONNECTIONS A325 "N" (UN)

ALL SHOP HOLES TO BE 3/16" Ø (UN)

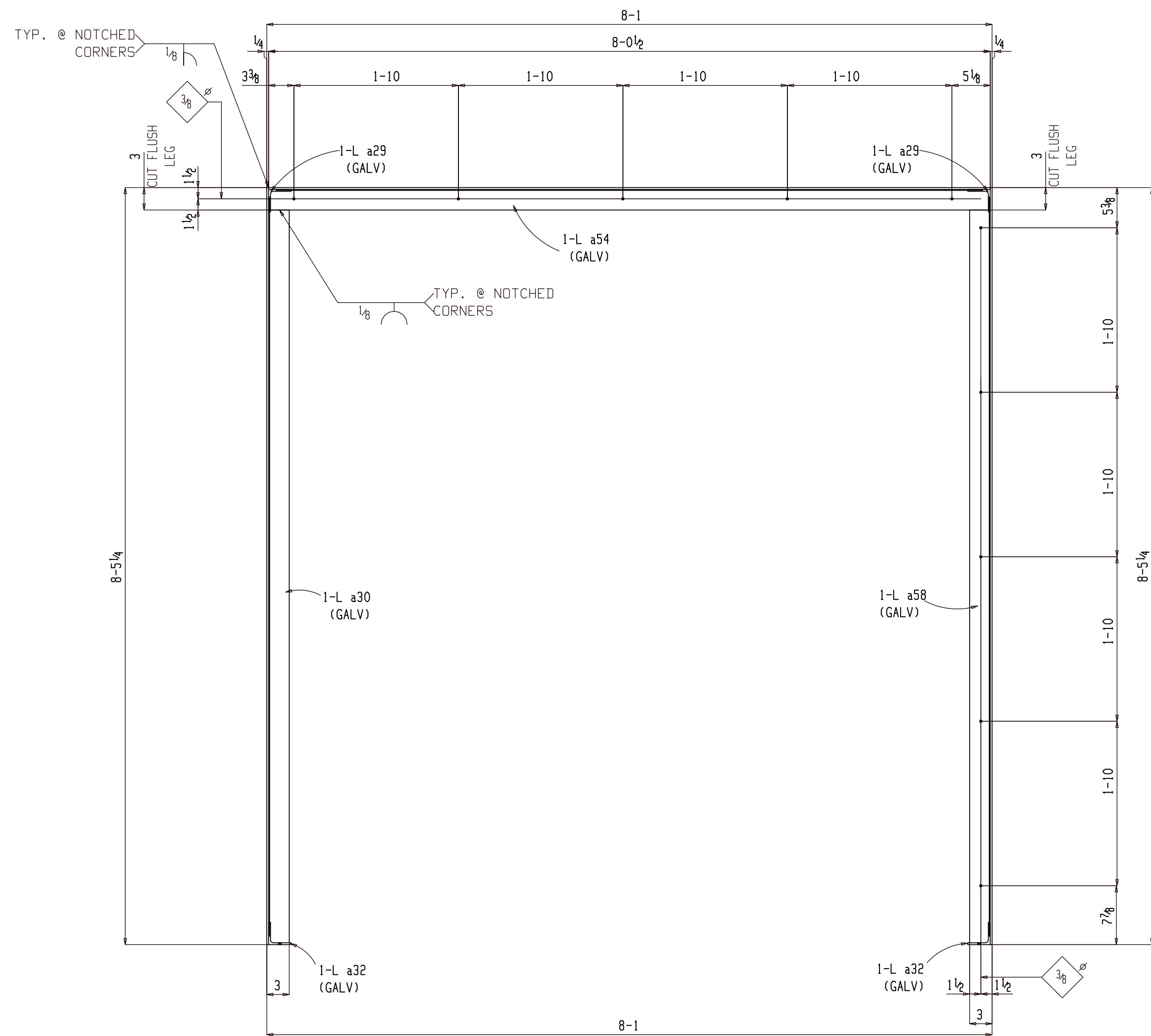
SHOP NOTES:
ALL STUBS ARE FROM FACE OF CLIP ANGLES
ALL HOLE SPACING 3" C/C UNLESS NOTED
ALL BLOCK SIZES FROM FACE OF CLIP ANGLES
ALL REAR ENTRANT CUTS HAVE A MINIMUM OF 1/2" RADIUS CUTS.

0	06-14	FOR FABRICATION	FABRICATION		
A	12-10	FOR APPROVAL	APPROVAL		

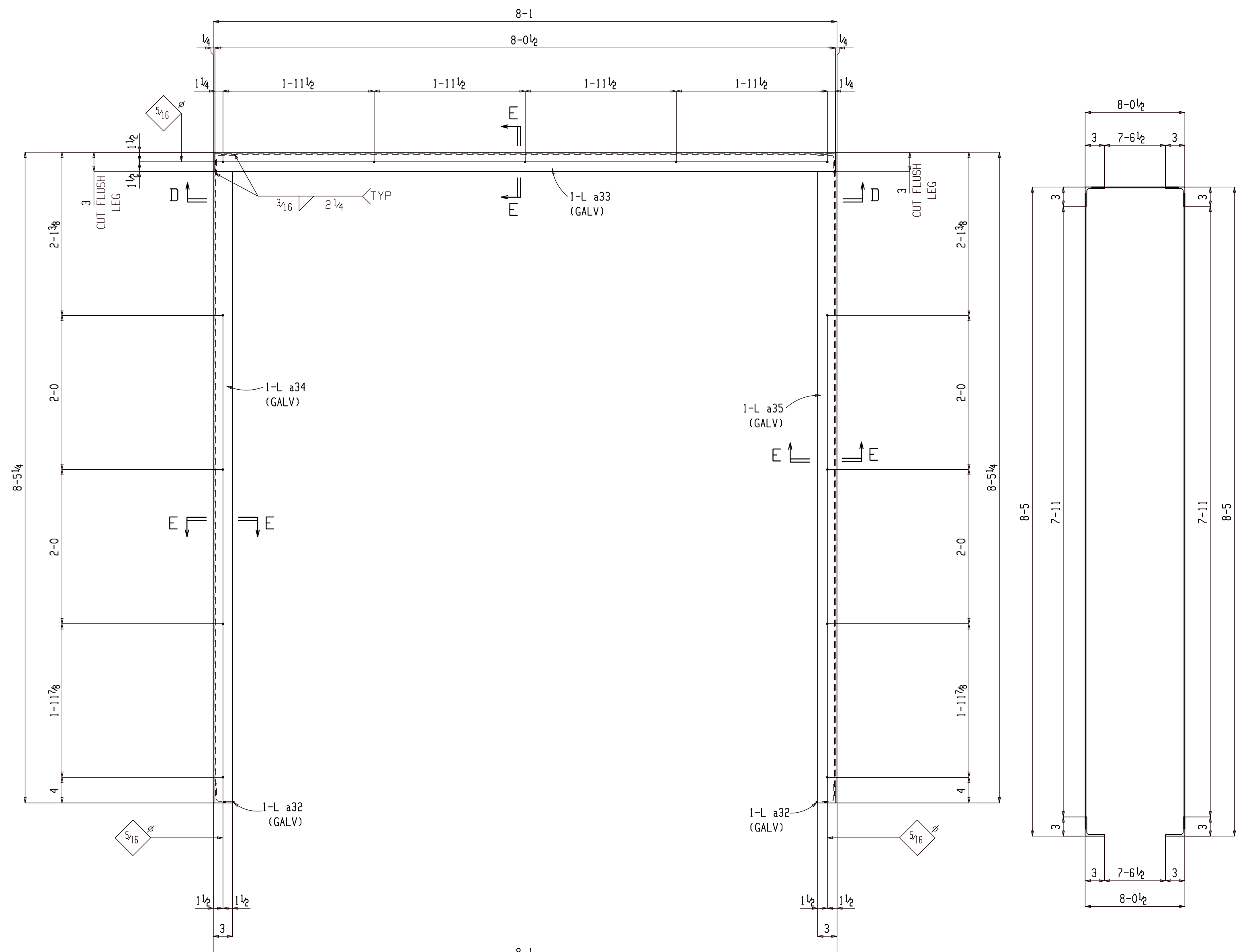
REV.	DATE	DESCRIPTION	PRINTS	NO.	DATE

JOB: Norfolk Stormwater Pump Station#12
LOCATION: At Hampton Blvd. Underpass, Norfolk, Virginia
CUSTOMER: DEBRIS SCREEN (ABOVE BAFFLE) DETAILS
DRWG. COVERS: DEBRIS SCREEN (ABOVE BAFFLE) DETAILS

DATE: 12-04-21
CHECKER: ALN
DATE: 12-04-21
JOB NO.
DRWG. NO. 101

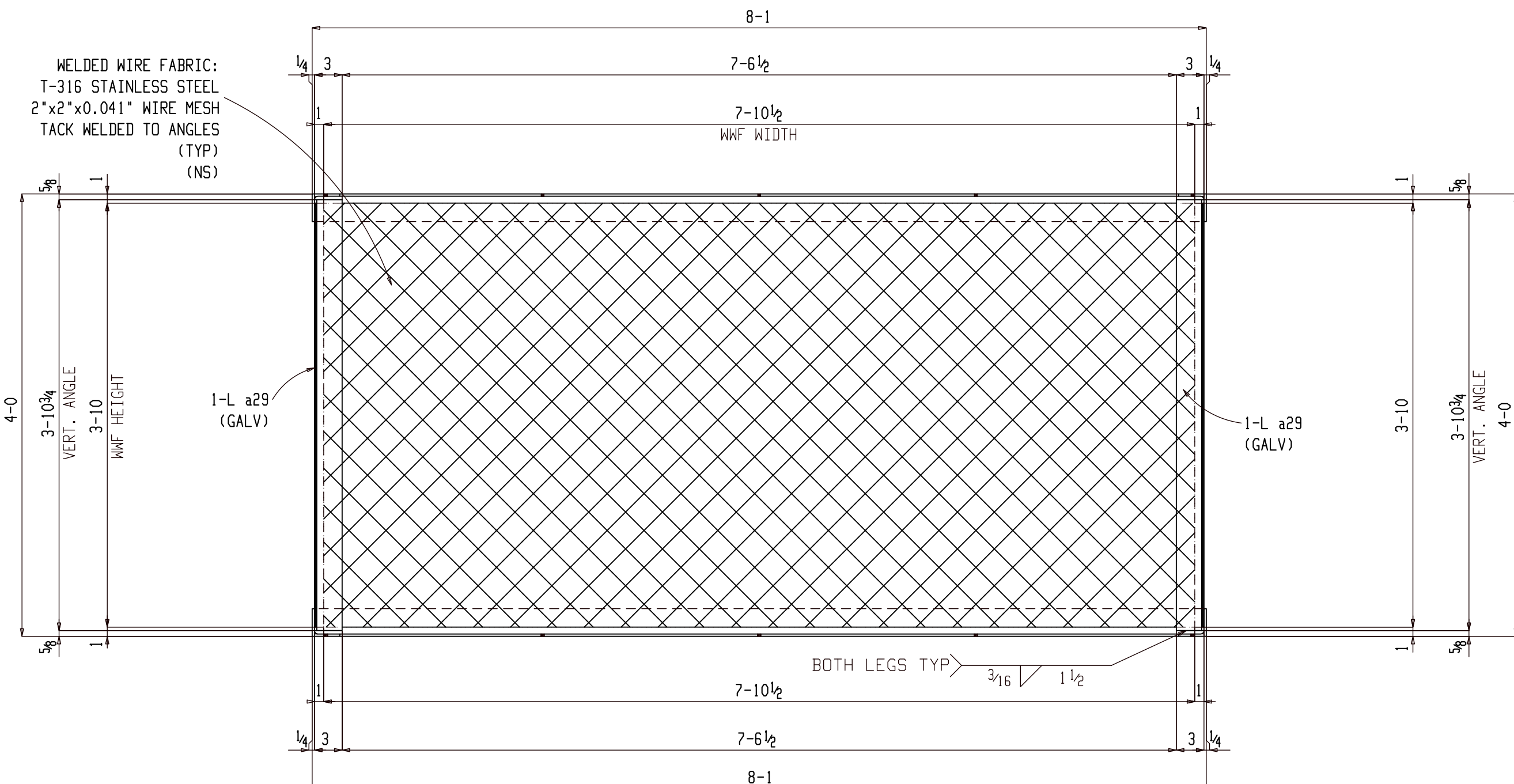


Section A-A
101FR1

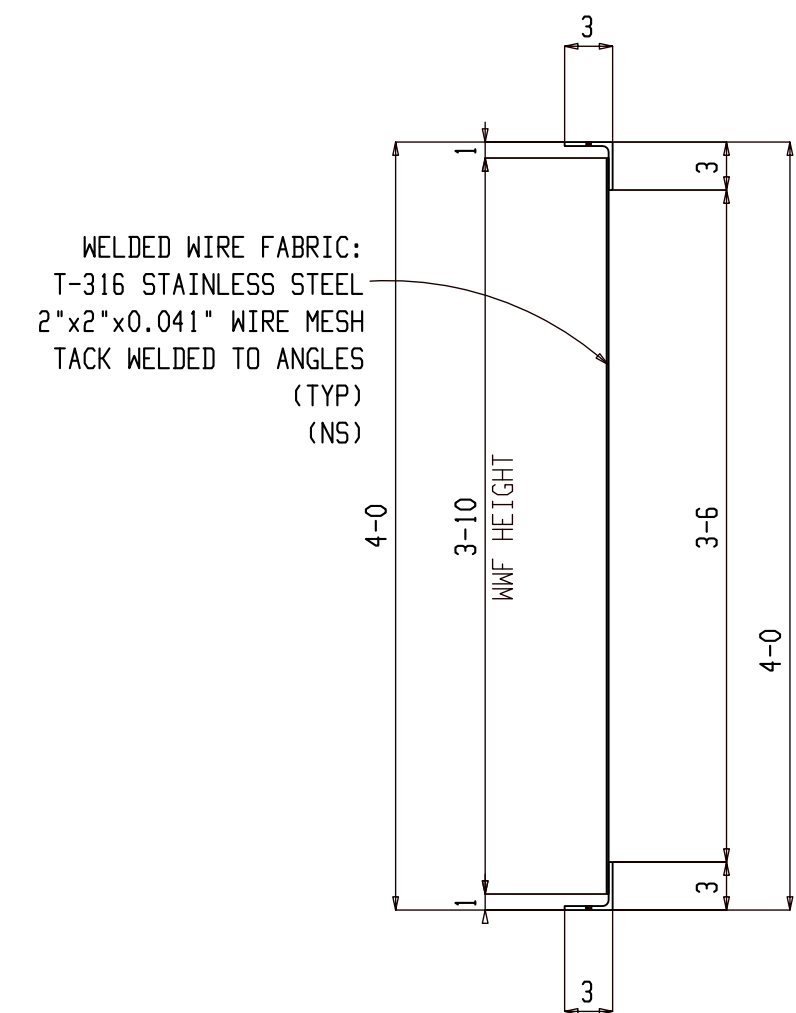


Section B-B
101FR1

Section C-C
101FR1



Section D-D
101FR1

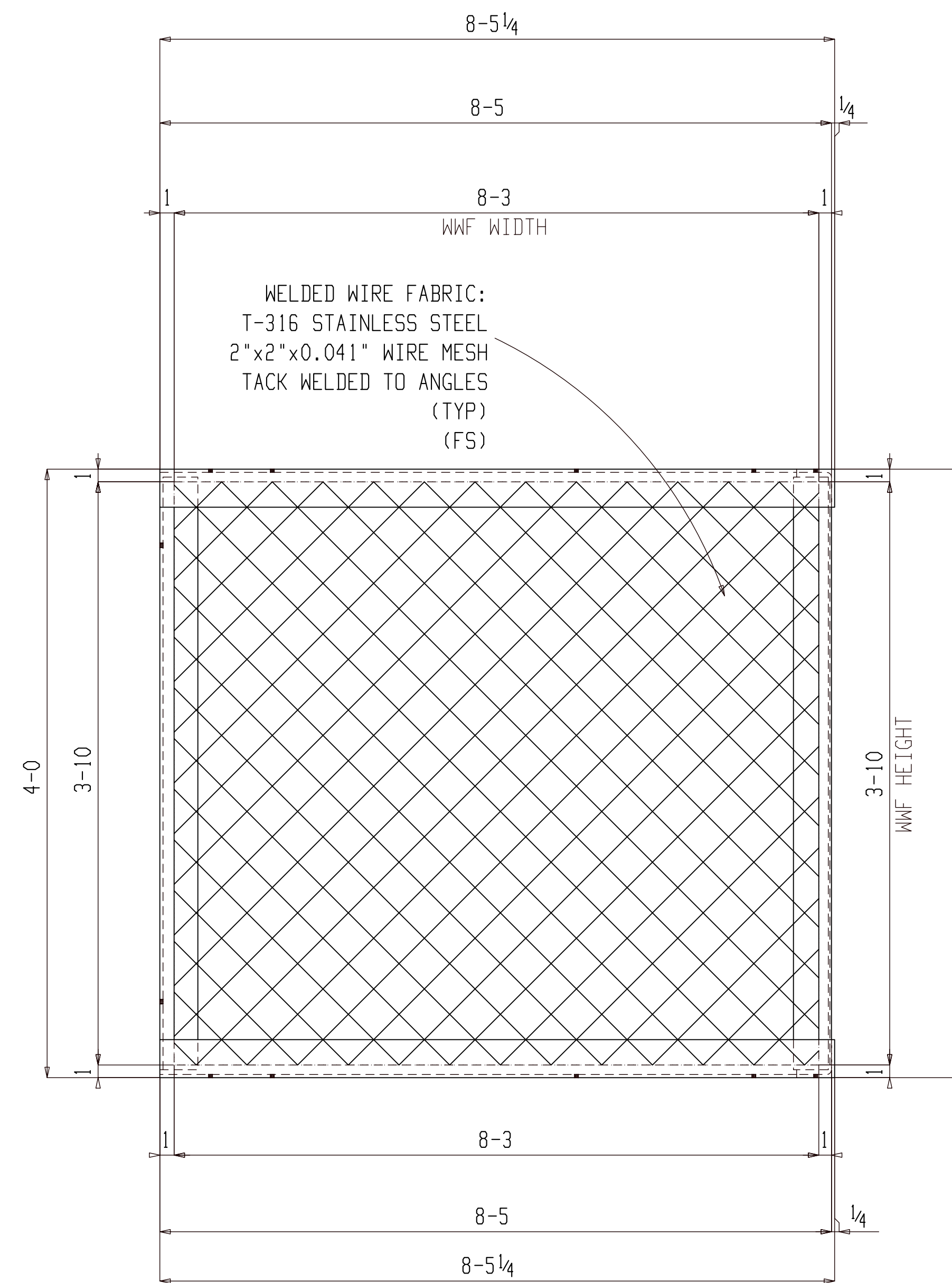
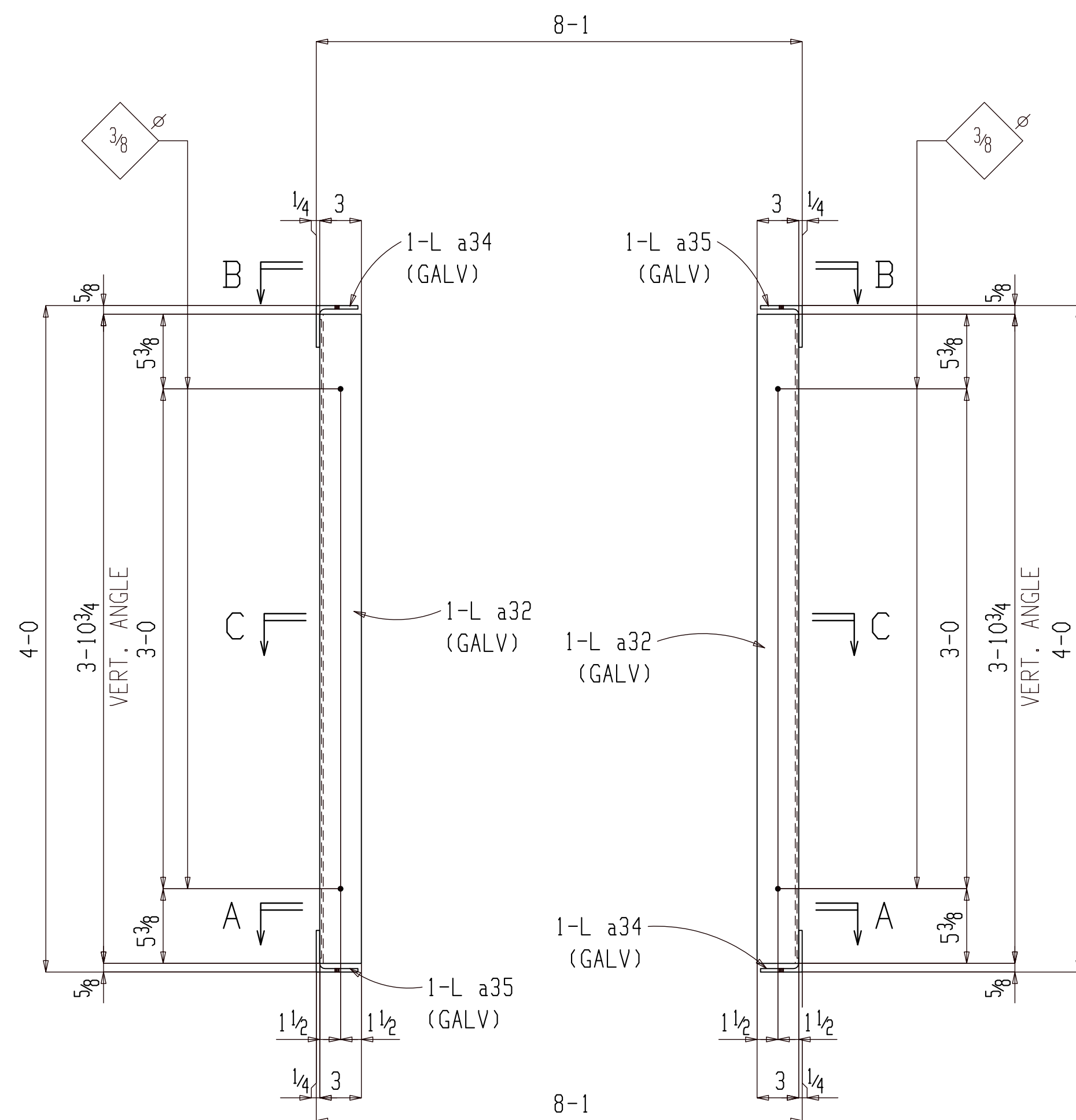
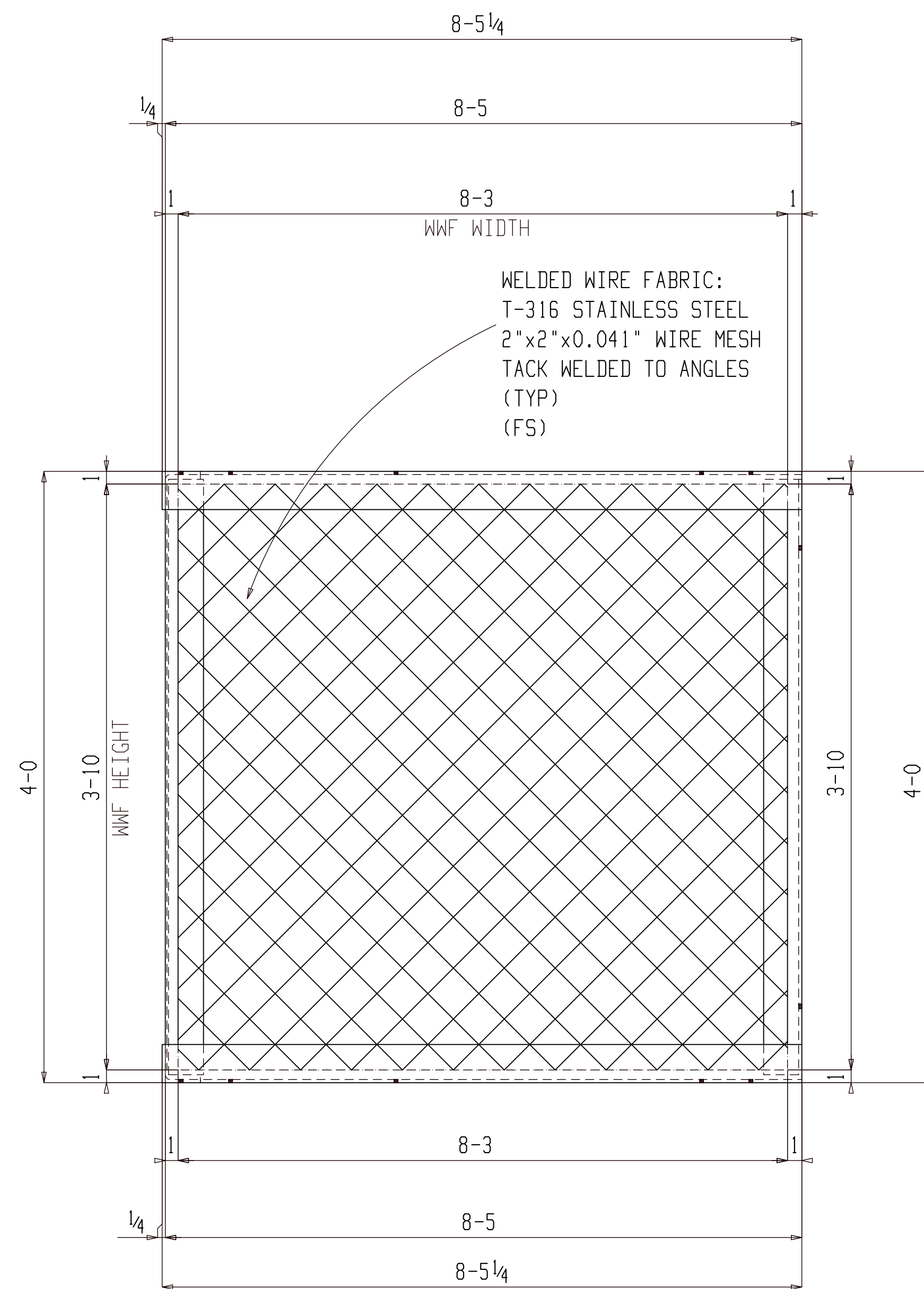


Section E-E
101FR1

FABRICATION

WORK THIS SHEET WITH SHEET 101

SHOP CLEAN - S5PC-SP3 SHOP PRIME WITH 1 COAT GRAY OXIDE					
ALL MATERIAL INTD "AESS"					
SHOP CLEANING - S5PC-SP6		0	06-14	FOR FABRICATION	FABRICATION
SHOP PRIME WITH 1 COAT GRAY PRIMER		A	12-10	FOR APPROVAL	APPROVAL
REV.	DATE			DESCRIPTION	PRINTS
					NO. DATE
STEEL NOTES: MISC. SHAPES, P's & BARS - A36 STRUCTURAL STEEL SHAPES - A992 Gr 50 STRUCTURAL TUBING - A500 GR. C STEEL PIPE - A53 GR. B		JOB Norfolk Stormwater Pump Station#12 LOCATION At Hampton Blvd. Underpass, Norfolk, Virginia CUSTOMER DRAWG. COVERS DEBRIS SCREEN (ABOVE BAFFLE) DETAILS			
SHOP CONNECTIONS E70XX (UN)		FIELD CONNECTIONS A325 "N" (UN)		ALL SHOP HOLES TO BE 3/16" Ø (UN)	
SHOP NOTES: ALL STUBS ARE FROM FACE OF CLIP ANGLES ALL HOLE SPACING 3" C/C UNLESS NOTED ALL BLOCK SIZES FROM FACE OF CLIP ANGLES ALL REAR ENTRANT CUTS HAVE A MINIMUM OF 1/2" RADIUS CUTS.					
DETAILER	DATE	JOB NO.	DRWG. NO.		
CHECKER	DATE				



ONE DEBRIS SCREEN (ABOVE BAFFLE) 103FR1

(E REFER: E102)
(S REFER: S-4 & S-5)

STAINLESS STEEL

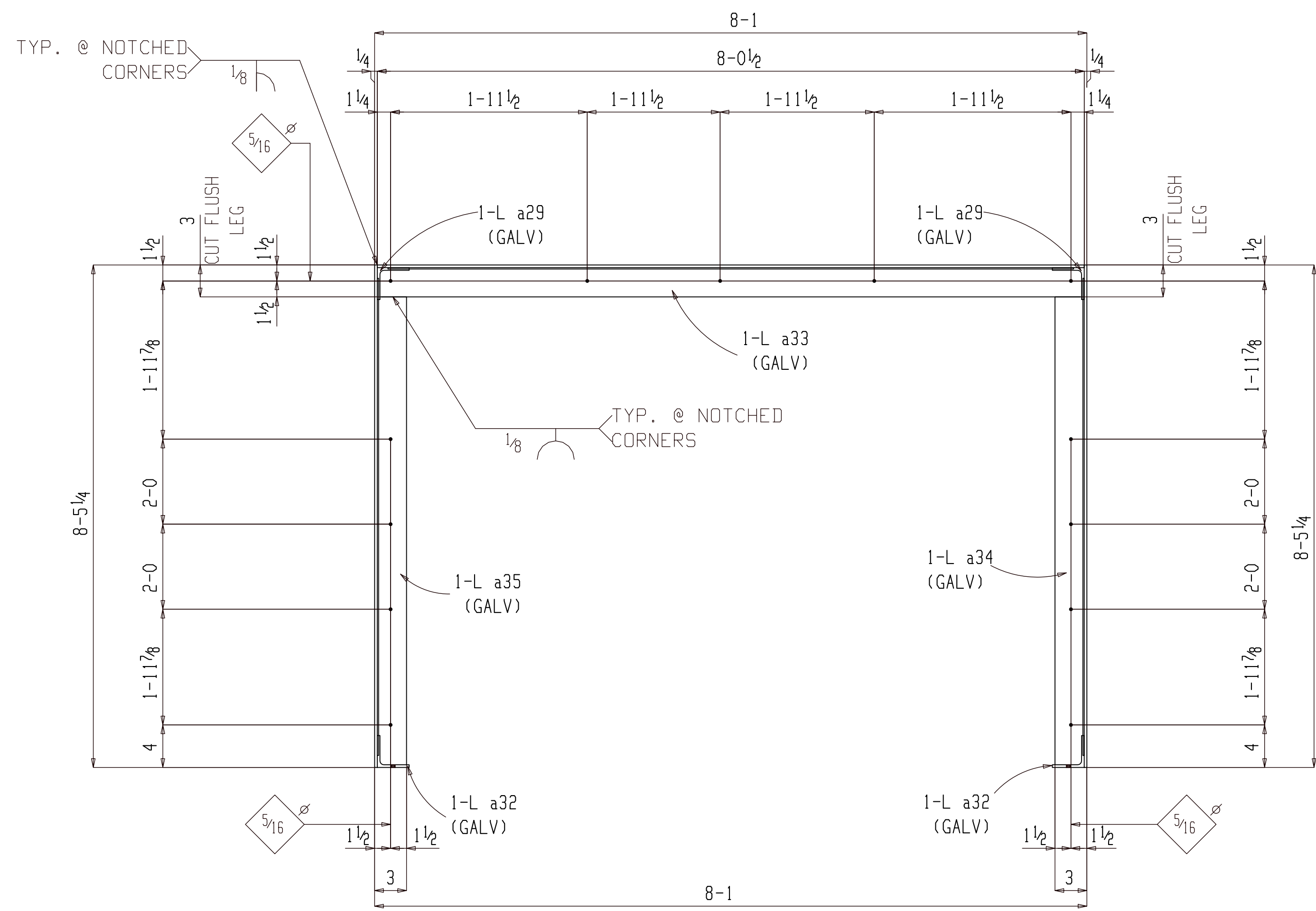
WORK THIS SHEET WITH SHEET 104

BILL OF MATERIAL

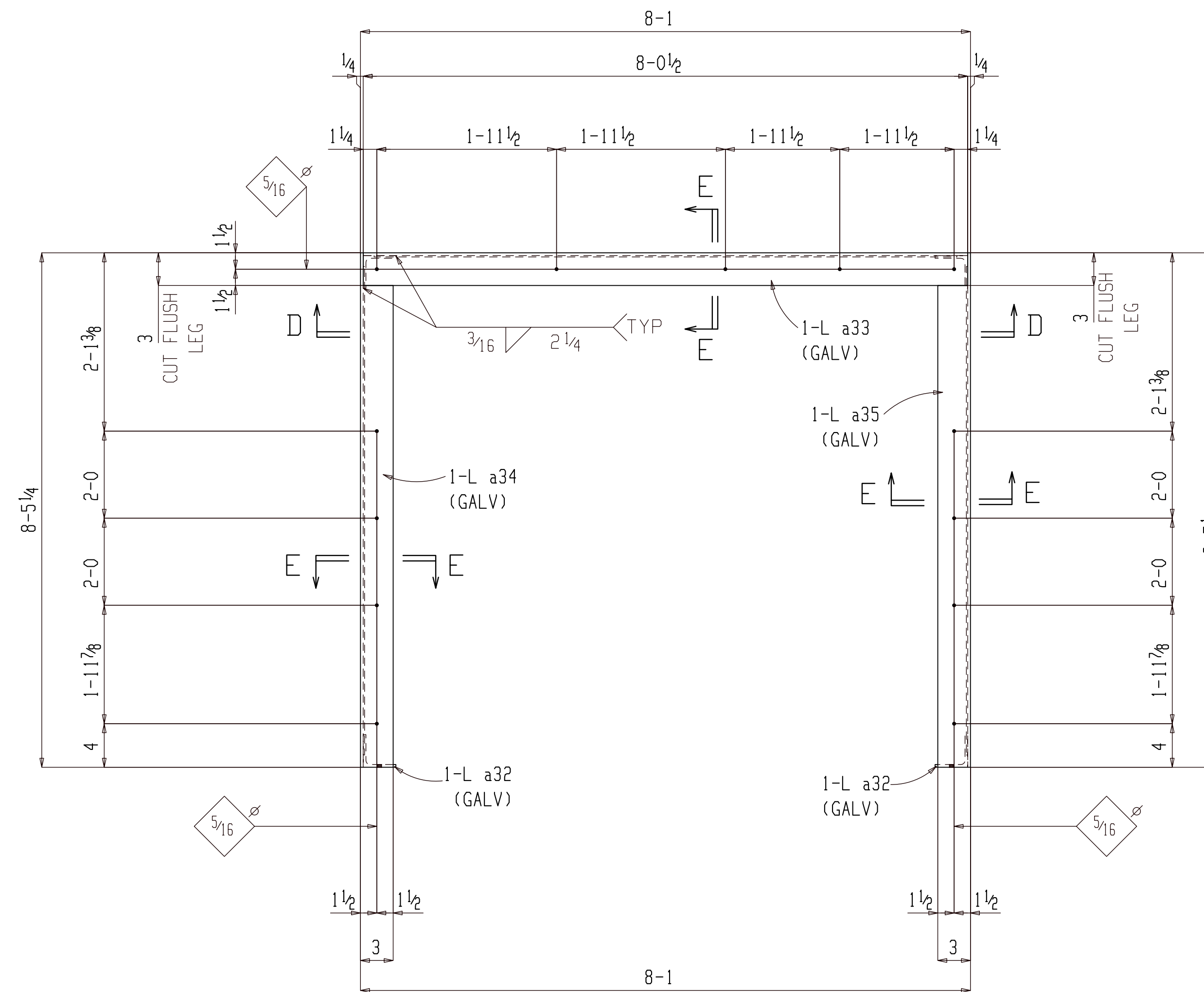
NO. RE	ASSY M	MATERIAL	LENGTH	REMARKS
ONE		DEBRIS SCREEN (ABOVE BAFFLE)		
1	103FR1	WWF46	7-10 1/2	(2"x2"x0.041" WIRE MESH) T-316 (SS)
2		WWF46	8-3	(2"x2"x0.041" WIRE MESH) T-316 (SS)
2	a34	L3x3x1/4	8-5 1/4	(GALV) A36
2	a35	L3x3x1/4	8-5 1/4	(GALV) A36
2	a33	L3x3x1/4	8-0 1/2	(GALV) A36
2	a32	L3x3x1/4	3-10 3/4	(GALV) A36
2	a29	L3x3x1/4	3-10 3/4	(GALV) A36
		FIELD BOLTS		
13		1/4" Dia A563		(GALV)
4		1/4" Dia HILTI HIT-V ROD ANCHOR	7 EMBED=6"	(GALV)

FABRICATION

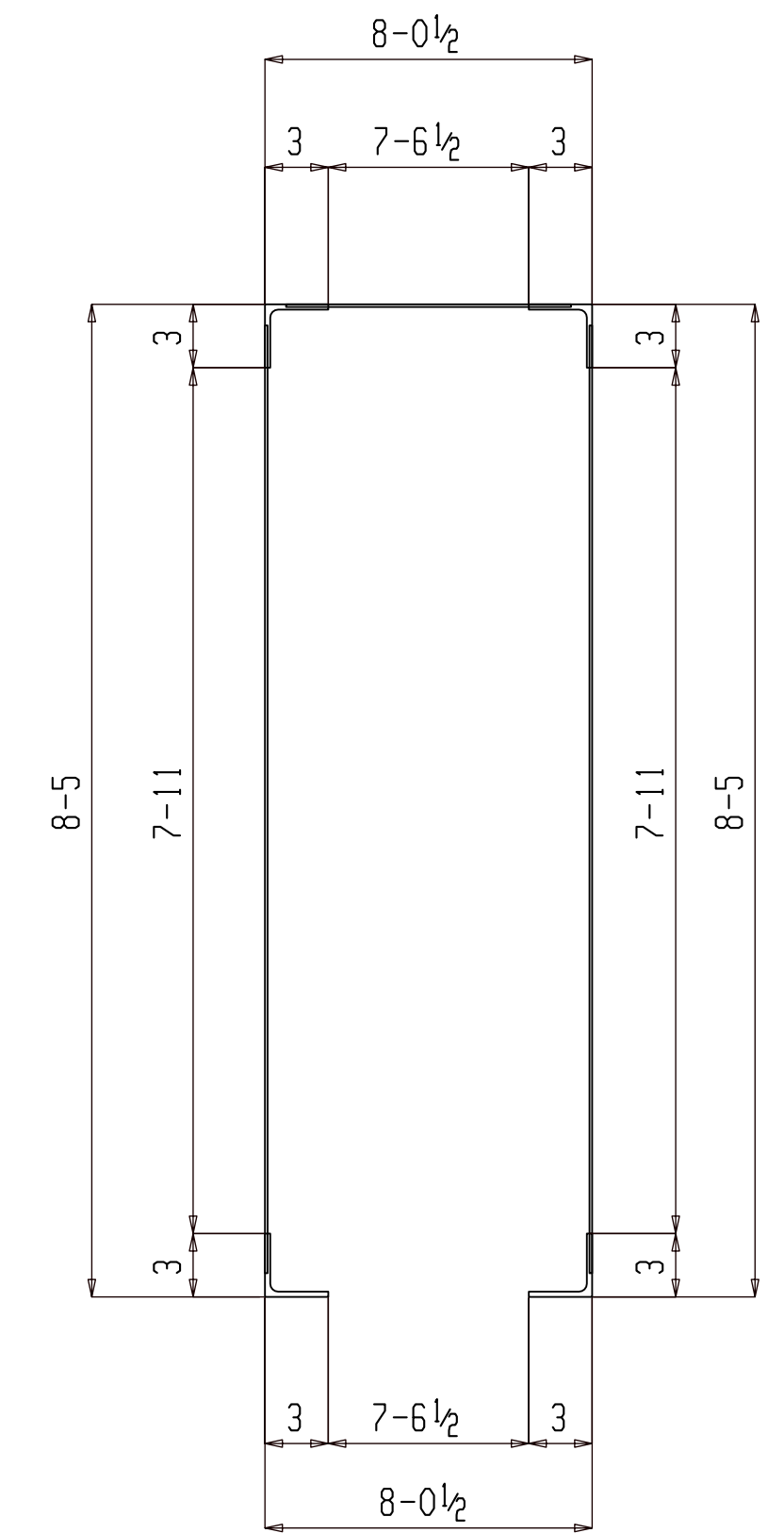
SHOP CLEAN - SSPC-SP3 SHOP PRIME WITH 1 COAT GRAY OXIDE					
ALL MATERIAL INTD "AESS"					
SHOP CLEANING - SSPC-SP6		0	06-14	FOR FABRICATION	FABRICATION
SHOP PRIME WITH 1 COAT GRAY PRIMER		A	12-10	FOR APPROVAL	APPROVAL
REV.	DATE	DESCRIPTION		PRINTS	NO. DATE
<p>STEEL NOTES:</p> <p>MISC. SHAPES, P's & BARS - A36 STRUCTURAL STEEL SHAPES - A992 Gr 50 STRUCTURAL TUBING - A500 GR. C STEEL PIPE - A53 GR. B</p> <p>SHOP CONNECTIONS E70XX (UN) FIELD CONNECTIONS A325 "N" (UN)</p> <p>ALL SHOP HOLES TO BE 3/16" Ø (UN)</p> <p>SHOP NOTES: ALL STUBS ARE FROM FACE OF CLIP ANGLES ALL HOLE SPACING 3" C/C UNLESS NOTED ALL BLOCK SIZES FROM FACE OF CLIP ANGLES ALL REAR ENTRANT CUTS HAVE A MINIMUM OF 1/2" RADIUS CUTS.</p>					
JOB		Norfolk Stormwater Pump Station#12			
LOCATION		At Hampton Blvd. Underpass, Norfolk, Virginia			
CUSTOMER		DEBRIS SCREEN (ABOVE BAFFLE) DETAILS			
DRWG. COVERS					
DATE	DATE	JOB NO.	DRWG. NO.		
12-04-21	12-04-21		103		



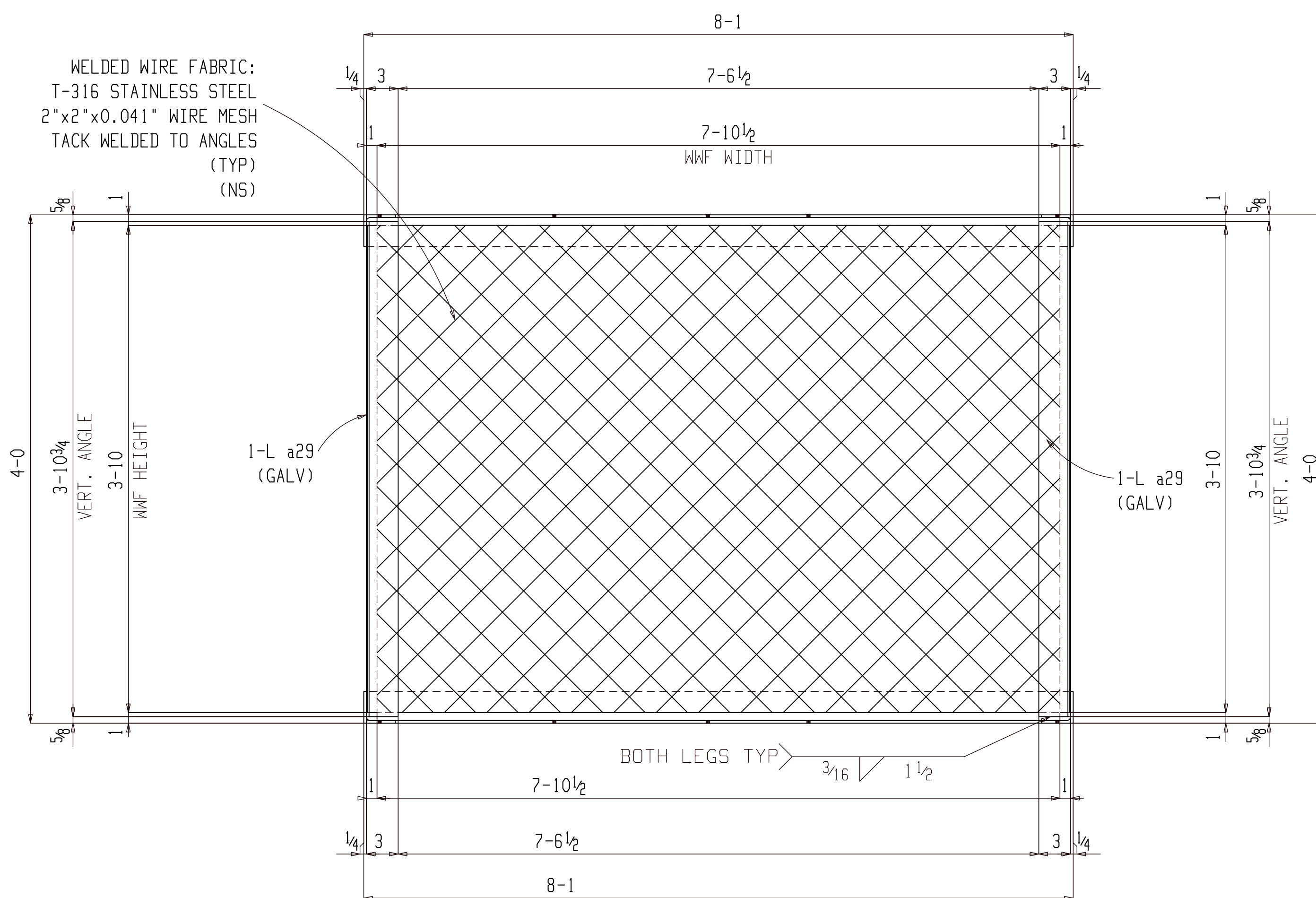
Section A-A
103FR1



Section B-B
103FR1

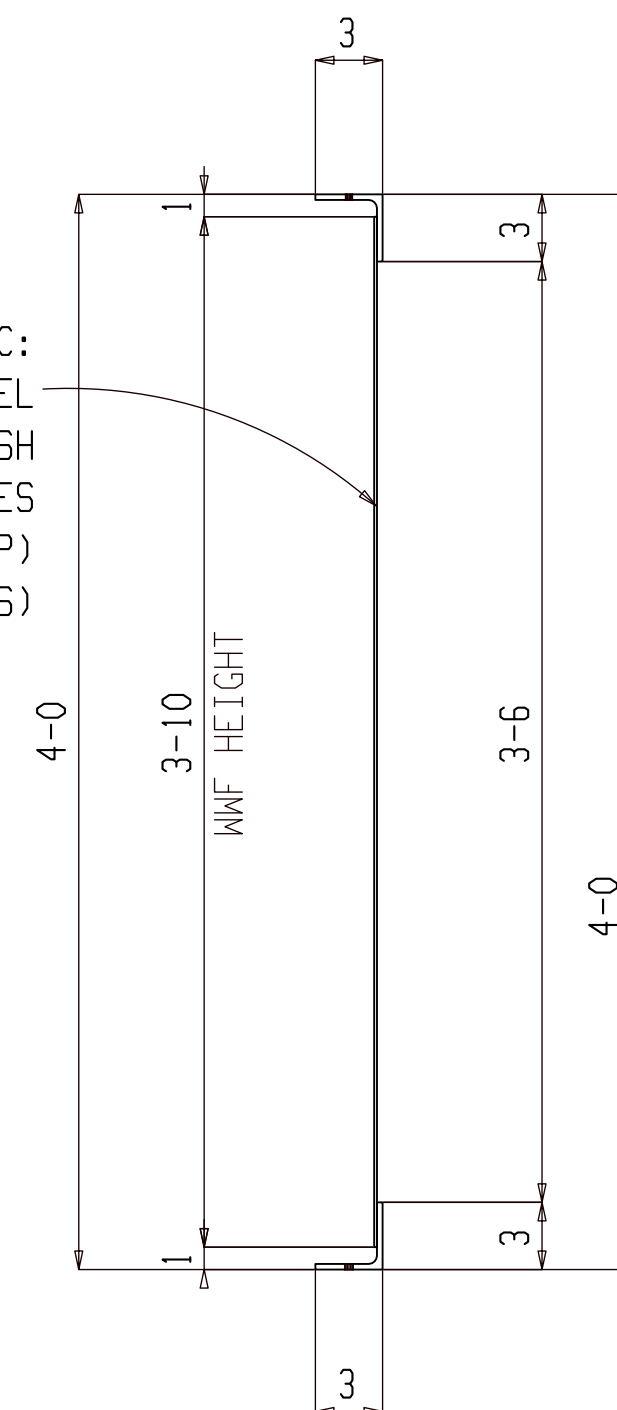


Section C-C
103FR1



Section D-D
103FR1

WELDED WIRE FABRIC:
T-316 STAINLESS STEEL
2"x2"x0.041" WIRE MESH
TACK WELDED TO ANGLES
(TYP)
(NS)



Section E-E
103FR1

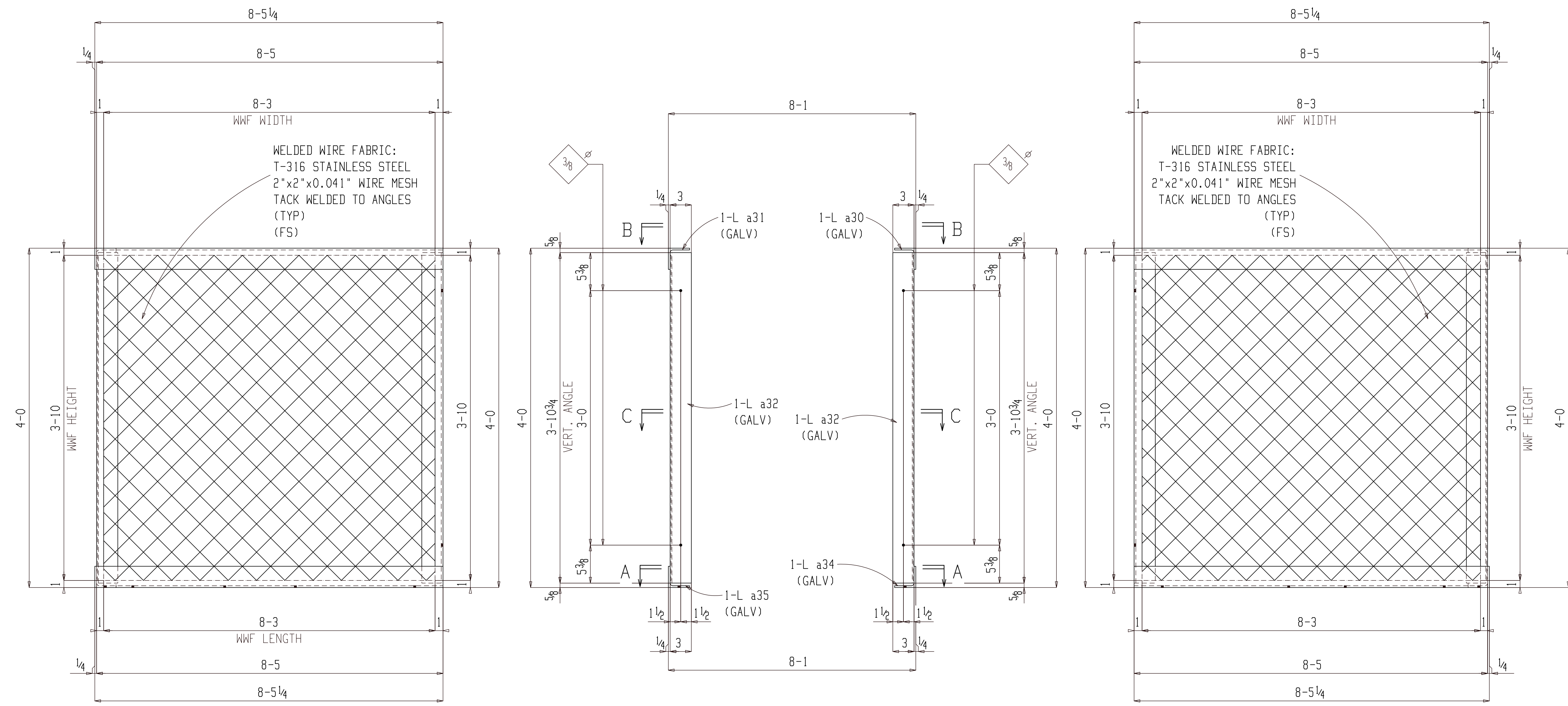
FABRICATION

WORK THIS SHEET WITH SHEET 103

SHOP CLEAN - SSPC-SP3 SHOP PRIME WITH 1 COAT GRAY OXIDE					
ALL MATERIAL INTD 'AESS'					
SHOP CLEANING - SSPC-SP6					
SHOP PRIME WITH 1 COAT GRAY PRIMER					
STEEL NOTES:					
MISC. SHAPES, P's & BARS - A36					
STRUCTURAL STEEL SHAPES - A992 Gr 50					
STRUCTURAL TUBING - A500 GR.C					
STEEL PIPE - A53 GR.B					
SHOP CONNECTIONS E70XX (UN)		FIELD CONNECTIONS A325 "N" (UN)		JOB Norfolk Stormwater Pump Station#12	
ALL SHOP HOLES TO BE 3/16" (UN)				LOCATION At Hampton Blvd. Underpass, Norfolk, Virginia	
SHOP NOTES:				CUSTOMER DEBRIS SCREEN (ABOVE BAFFLE) DETAILS	
ALL STUBS ARE FROM FACE OF CLIP ANGLES				DRAWG. COVERS DATE 12-04-21	
ALL HOLE SPACING 3" C/C UNLESS NOTED				JOB NO.	
ALL BLOCK SIZES FROM FACE OF CLIP ANGLES				DATE 12-04-21	
ALL REAR ENTRANT CUTS HAVE A MINIMUM OF 1/2" RADIUS CUTS.				DRAWG. NO. 104	

BILL OF MATERIAL

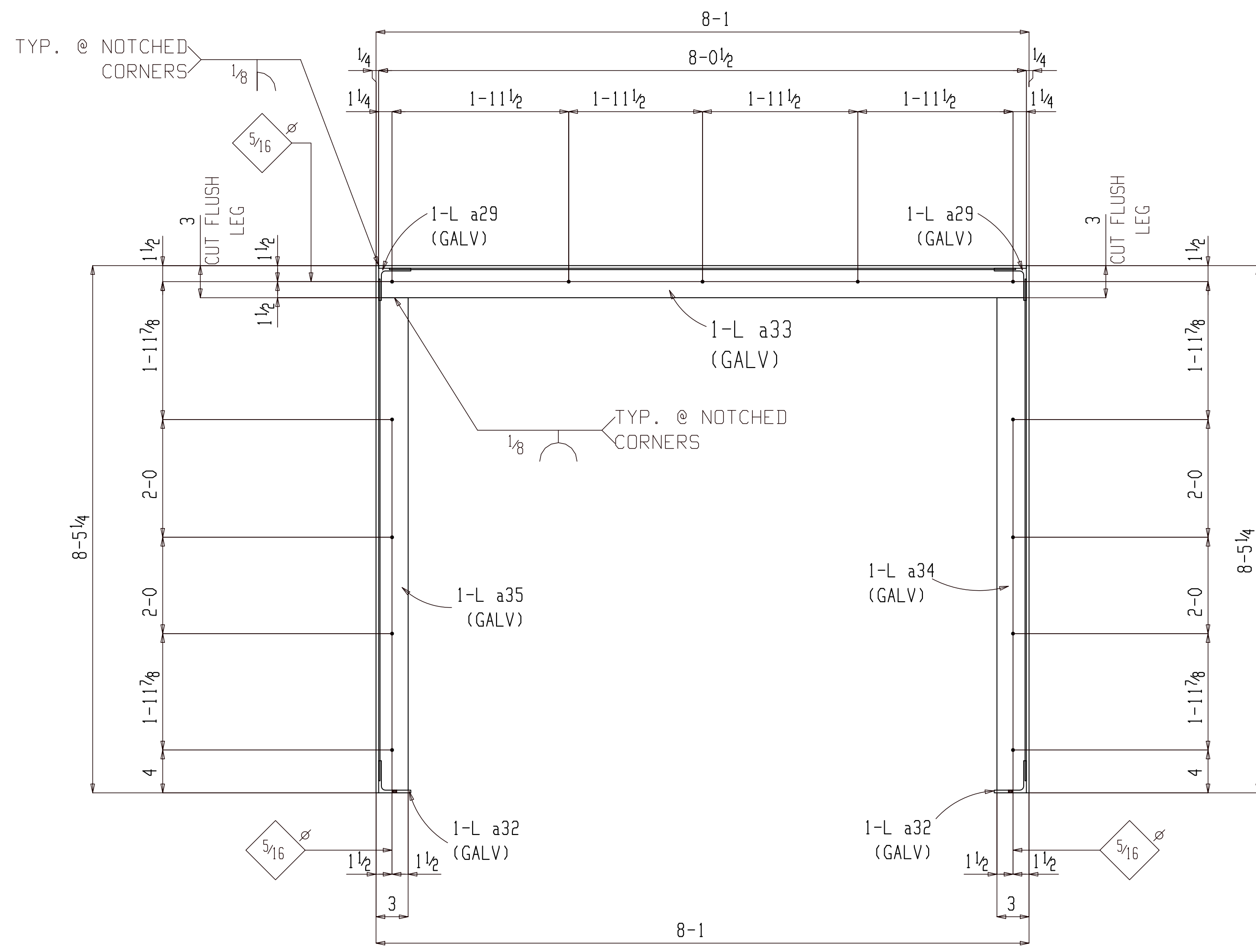
NO. RE	ASSY M	MATERIAL	LENGTH	REMARKS
ONE		DEBRIS SCREEN (ABOVE BAFFLE)		
1	105FR1	WWF46	7-10 1/2	(2"x2"x0.041" WIRE MESH) T-316 (SS)
2		WWF46	8-3	(2"x2"x0.041" WIRE MESH) T-316 (SS)
1	a30	L3x3x1/4	8-5 1/4	(GALV) A36
1	a31	L3x3x1/4	8-5 1/4	(GALV) A36
1	a34	L3x3x1/4	8-5 1/4	(GALV) A36
1	a35	L3x3x1/4	8-5 1/4	(GALV) A36
1	a33	L3x3x1/4	8-0 1/2	(GALV) A36
1	a28	L3x3x1/4	8-0 1/2	(GALV) A36
2	a32	L3x3x1/4	3-10 3/4	(GALV) A36
2	a29	L3x3x1/4	3-10 1/4	(GALV) A36
		FIELD BOLTS		
13		1/4" Dia A563		(GALV)
4		1/4" Dia HILTI HIT-V ROD ANCHOR	7	EMBED=6" (GALV)



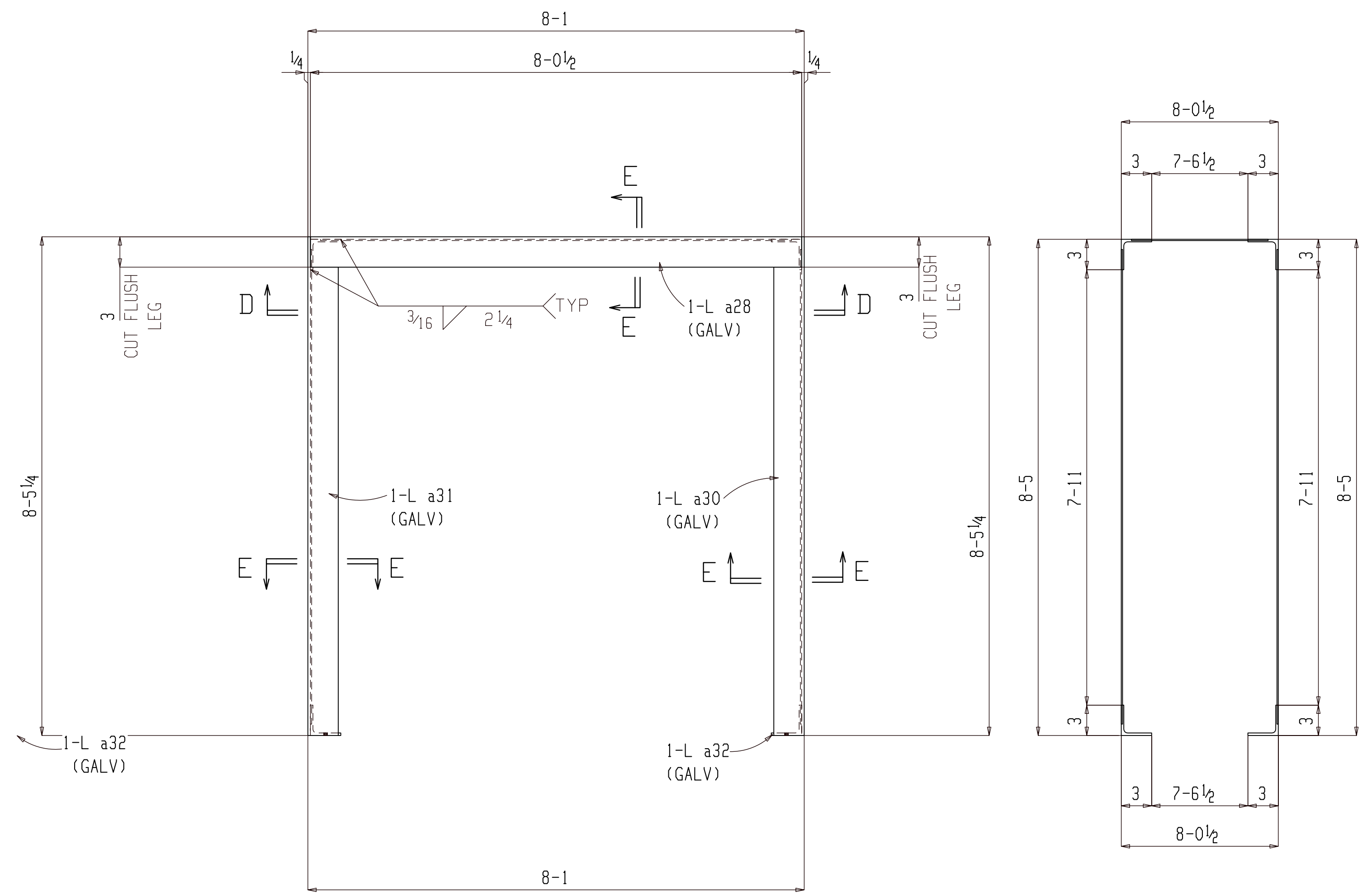
FABRICATION

WORK THIS SHEET WITH SHEET 106

SHOP CLEAN - SSPC-SP3 SHOP PRIME WITH 1 COAT GRAY OXIDE ALL MATERIAL INT'D "AESS" SHOP CLEANING - SSPC-SP6 SHOP PRIME WITH 1 COAT GRAY PRIMER	0 06-14	FOR FABRICATION	FABRICATION	
STEEL NOTES: MISC. SHAPES, P's & BARS - A36 STRUCTURAL STEEL SHAPES - A992 Gr 50 STRUCTURAL TUBING - A500 GR. C STEEL PIPE - A53 GR. B	A 12-10	FOR APPROVAL	APPROVAL	
SHOP CONNECTIONS E70XX (UN)	REV.	DATE	DESCRIPTION	PRINTS NO. DATE
FIELD CONNECTIONS A325 "N" (UN)	JOB Norfolk Stormwater Pump Station#12			
ALL SHOP HOLES TO BE 3/16" (UN)	LOCATION At Hampton Blvd. Underpass, Norfolk, Virginia			
SHOP NOTES: ALL STUBS ARE FROM FACE OF CLIP ANGLES ALL HOLE SPACING 3" C/C UNLESS NOTED ALL BLOCK SIZES FROM FACE OF CLIP ANGLES ALL REAR ENTRANT CUTS HAVE A MINIMUM OF 1/2" RADIUS CUTS.	CUSTOMER DEBRIS SCREEN (ABOVE BAFFLE) DETAILS			
	DRWG. COVERS	DATE 12-04-21	JOB NO.	DRWG. NO. 105
		CHECKER ALN	DATE 12-04-21	

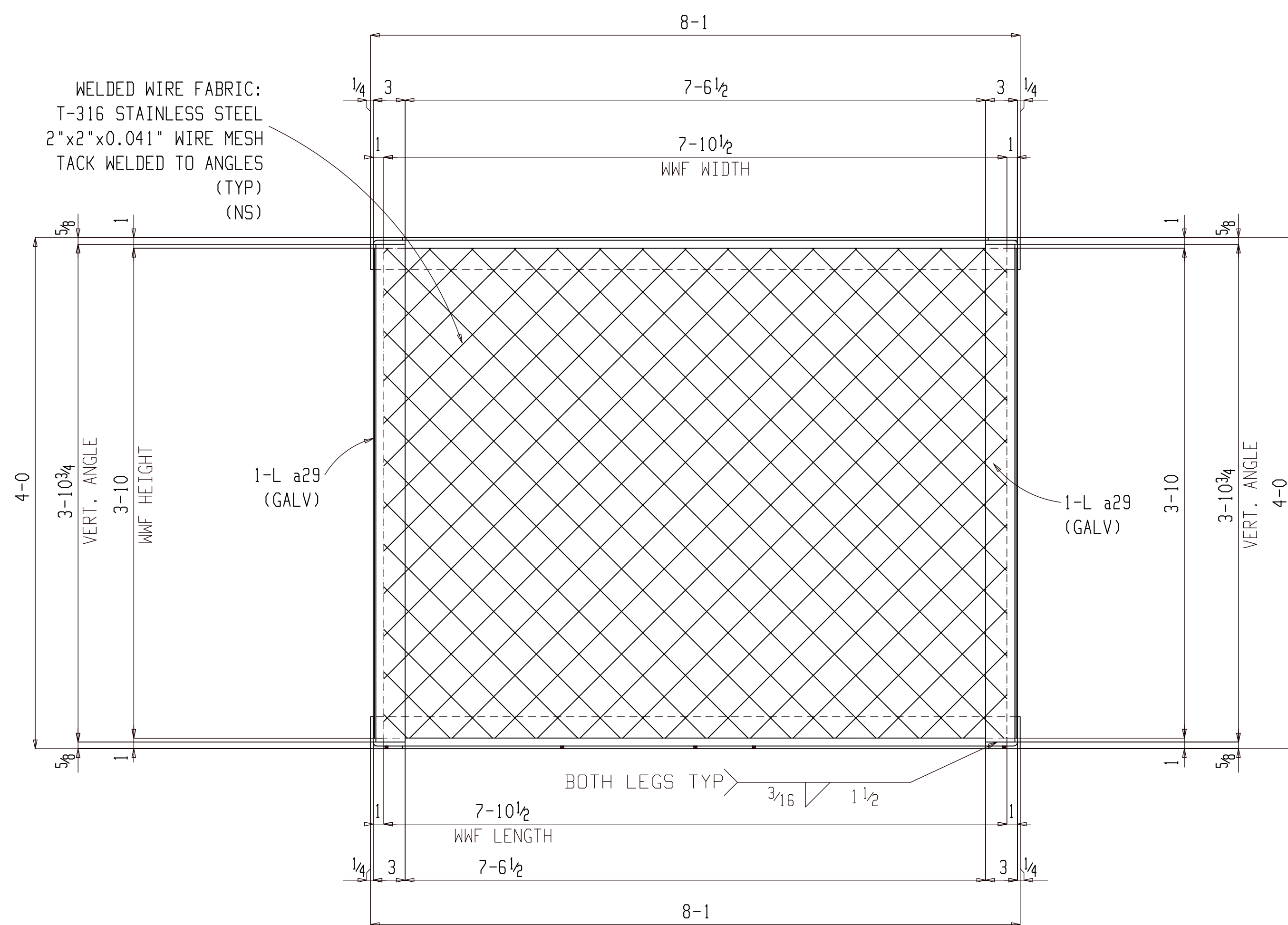


Section A-A
105FR1

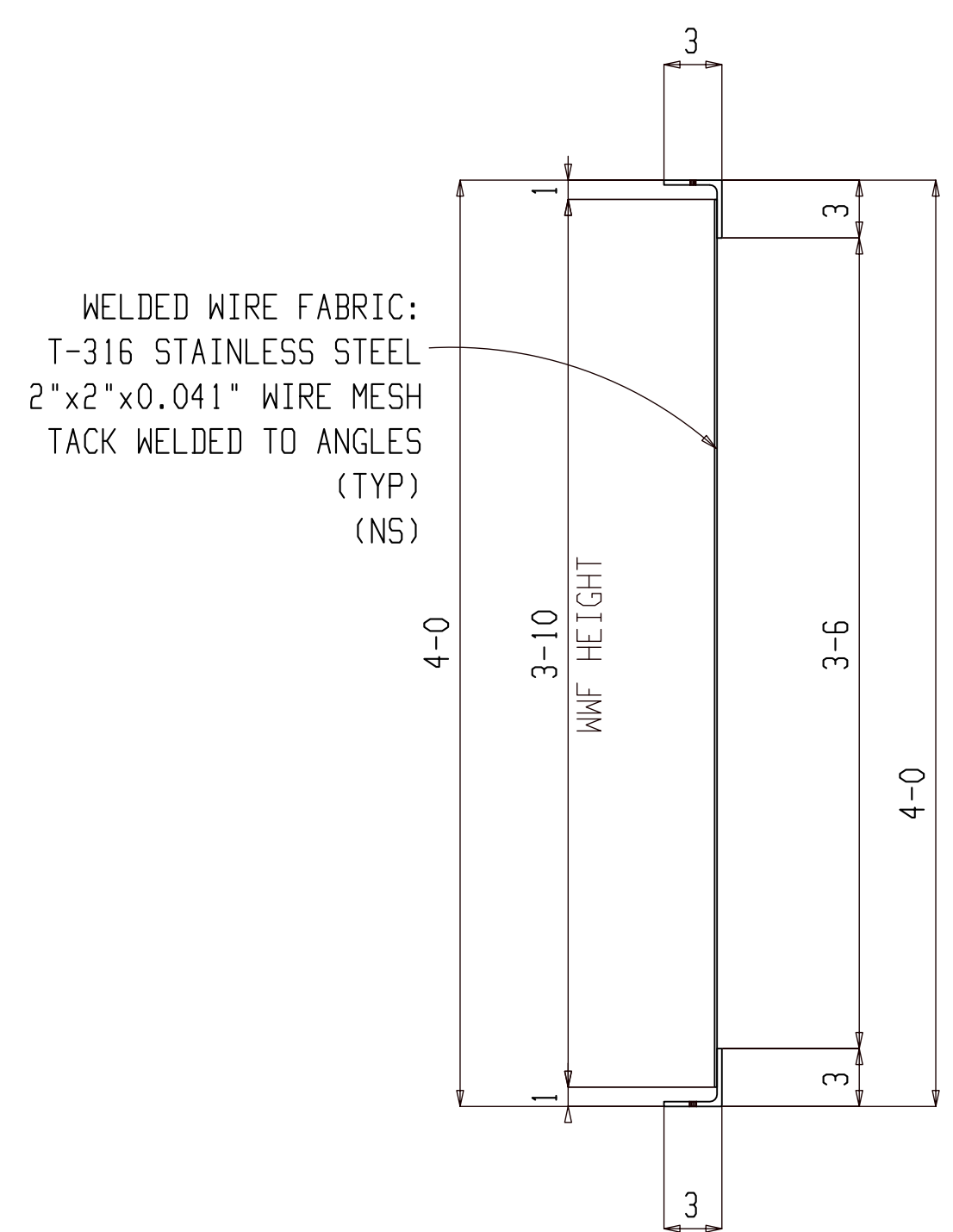


Section B-B
105FR1

Section C-C
105FR1



Section D-D
105FR1



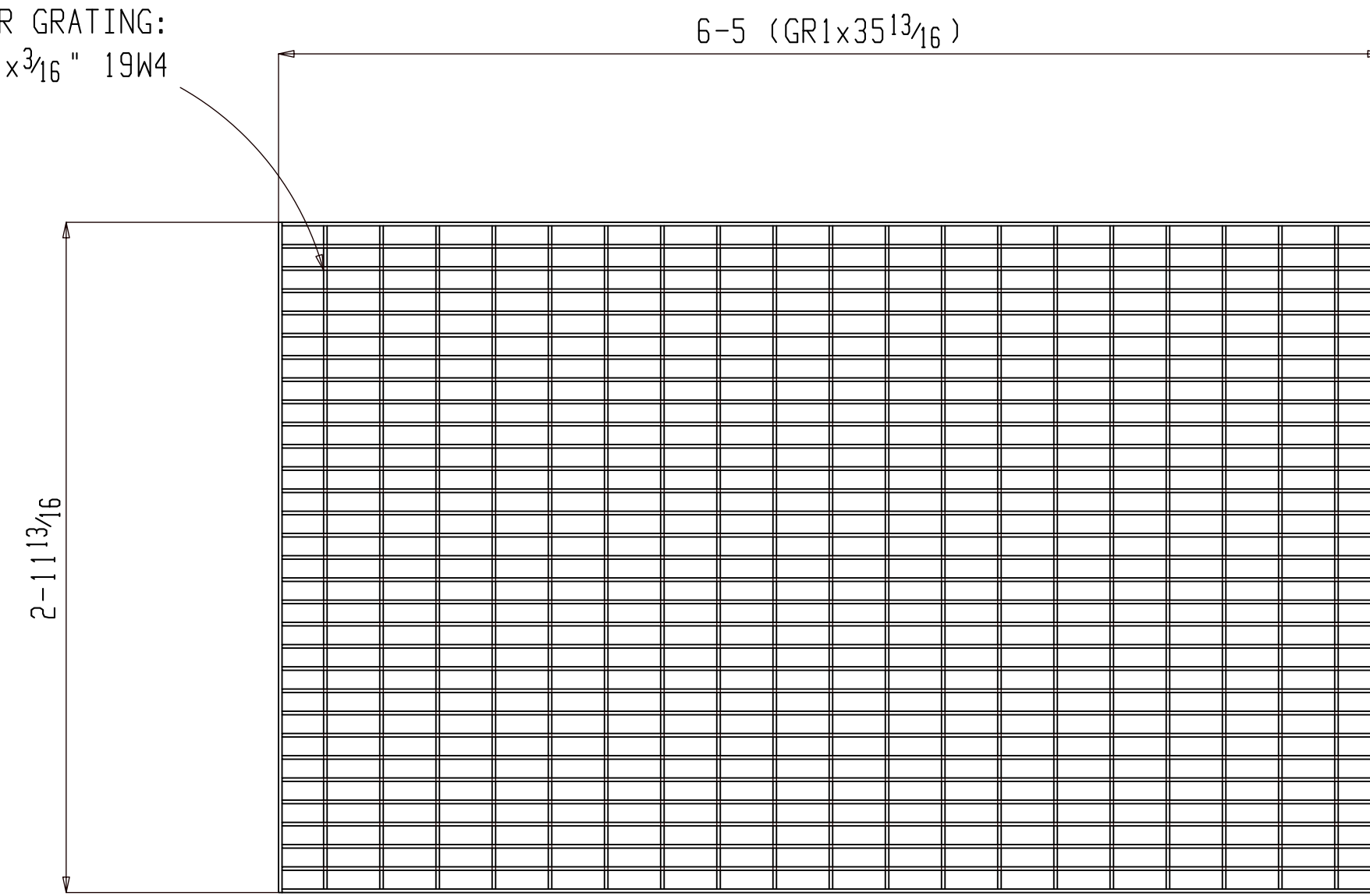
Section E-E
105FR1

FABRICATION

WORK THIS SHEET WITH SHEET 105

SHOP CLEAN - SPPC-SP3 SHOP PRIME WITH 1 COAT GRAY OXIDE					
ALL MATERIAL INTD "AESS" SHOP CLEANING - SPPC-SP6 SHOP PRIME WITH 1 COAT GRAY PRIMER		0	06-14	FOR FABRICATION	FABRICATION
STEEL NOTES: MISC. SHAPES, P's & BARS - A36 STRUCTURAL STEEL SHAPES - A992 Gr 50 STRUCTURAL TUBING - A500 GR. C STEEL PIPE - A53 GR. B		A	12-10	FOR APPROVAL	APPROVAL
SHOP CONNECTIONS E70XX (UN)	FIELD CONNECTIONS A325 "N" (UN)	REV.	DATE	DESCRIPTION	PRINTS NO. DATE
JOB Norfolk Stormwater Pump Station#12					
LOCATION At Hampton Blvd. Underpass, Norfolk, Virginia					
CUSTOMER DEBRIS SCREEN (ABOVE BAFFLE) DETAILS					
DRAWG. COVERS:					
ALL SHOP HOLES TO BE 3/16" (UN)					
SHOP NOTES: ALL STUBS ARE FROM FACE OF CLIP ANGLES ALL HOLE SPACING 3" C/C UNLESS NOTED ALL BLOCK SIZES FROM FACE OF CLIP ANGLES ALL REAR ENTRANT CUTS HAVE A MINIMUM OF 1/2" RADIUS CUTS.					
DATE 12-04-21	JOB NO.	DRAWG. NO.			
CHECKER ALN	DATE 12-04-21	106			

BAR GRATING:
1"x $\frac{3}{16}$ " 19W4

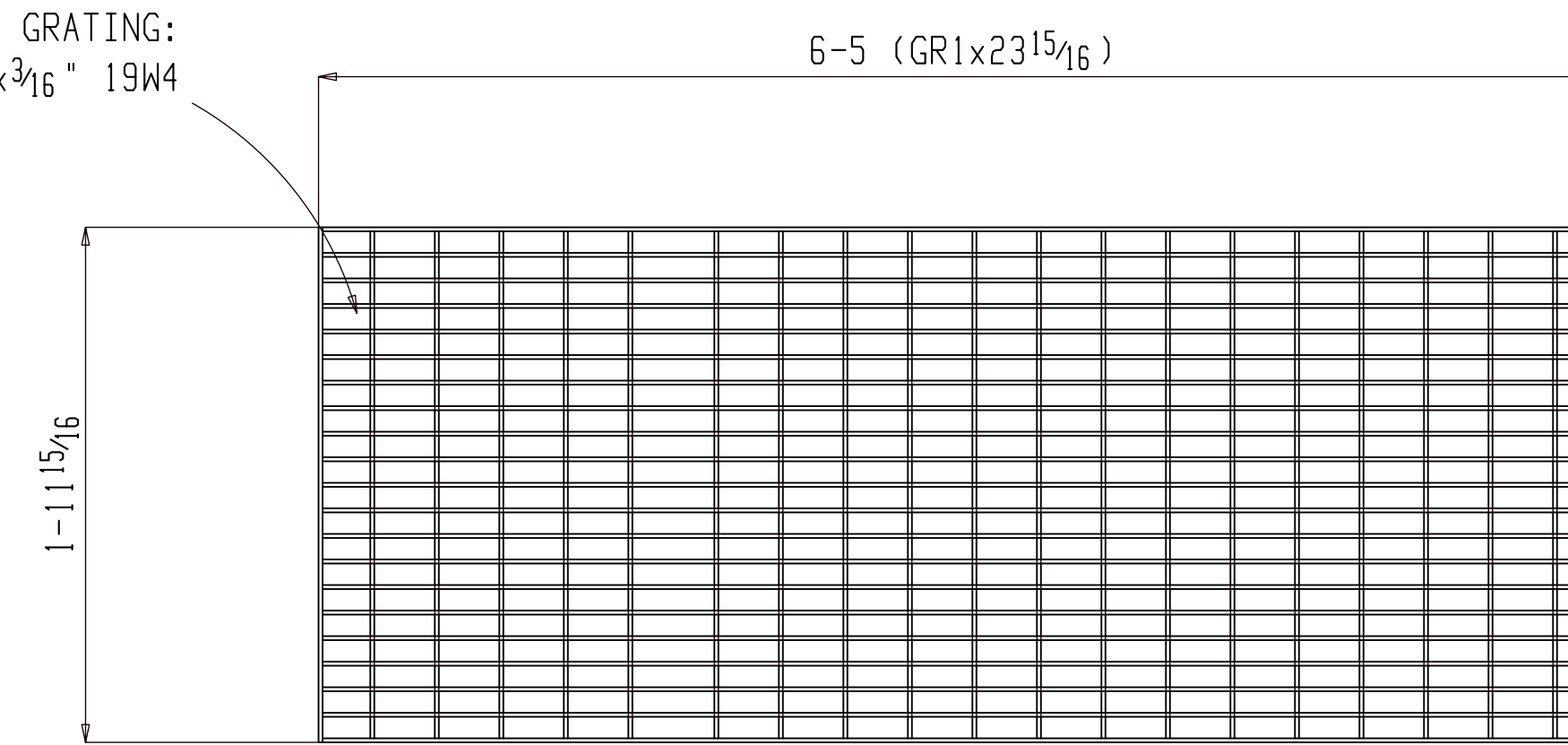


5 BAR GRATINGS 107GR1

(E REFER: E100)
(S REFER: C-201)

GALVANIZED

BAR GRATING:
1"x $\frac{3}{16}$ " 19W4



2 BAR GRATINGS 107GR2

(E REFER: E100)
(S REFER: C-201)

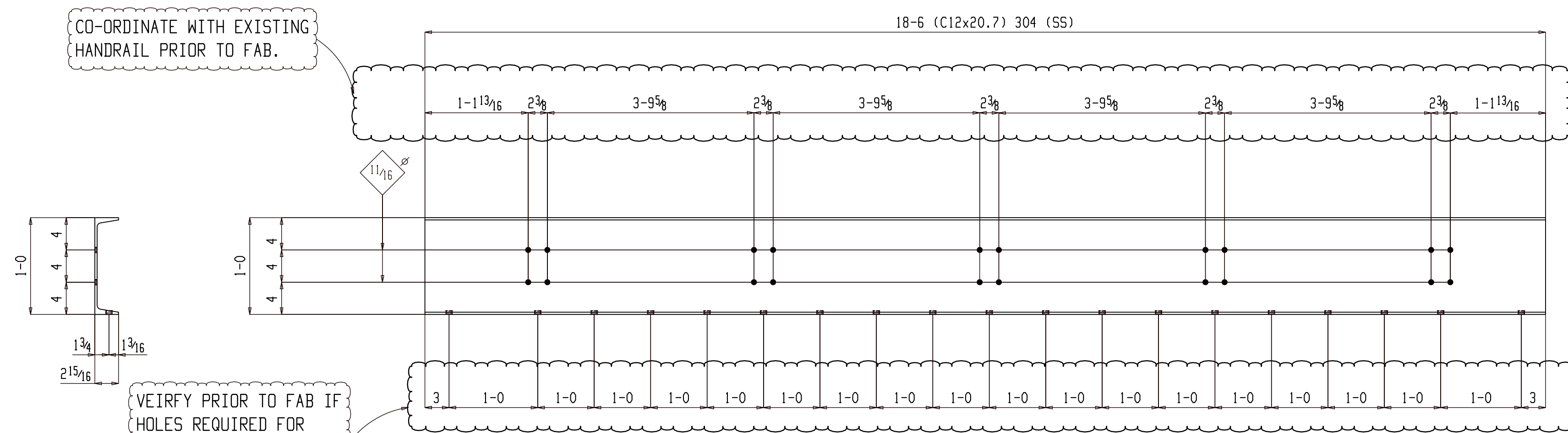
GALVANIZED

BILL OF MATERIAL

NO.	RE	ASSY	M	MATERIAL	LENGTH	REMARKS
5				BAR GRATING		
5	107GR1			GR1x35 $\frac{13}{16}$	6-5	(1"x $\frac{3}{16}$ " 19W4) (GALV)
				FIELD BOLTS		
20				SS SADDLE CLIP FASTENER		(SS)
2				BAR GRATING		
2	107GR2			GR1x23 $\frac{15}{16}$	6-5	(1"x $\frac{3}{16}$ " 19W4) (GALV)
				FIELD BOLTS		
8				SS SADDLE CLIP FASTENER		(SS)

FABRICATION

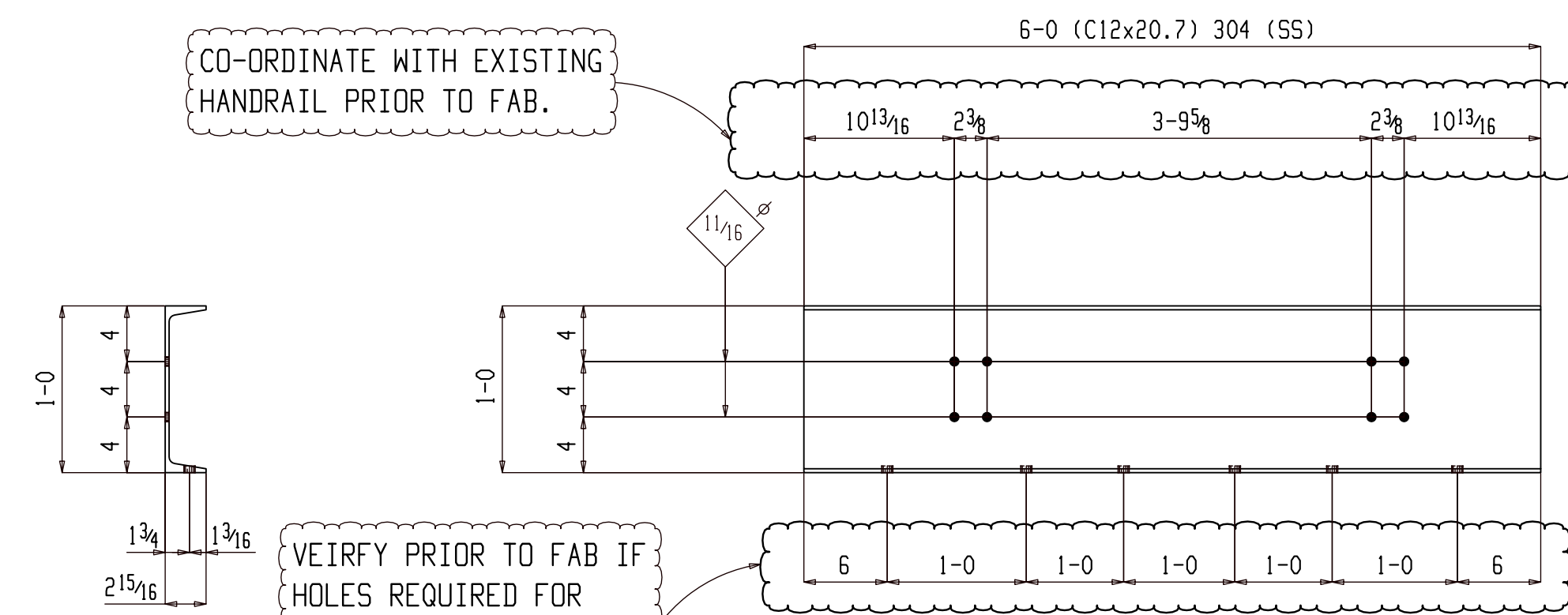
SHOP CLEAN - SSPC-SP3 SHOP PRIME WITH 1 COAT GRAY OXIDE						
ALL MATERIAL INT'D "AESS" SHOP CLEANING - SSPC-SP6 SHOP PRIME WITH 1 COAT GRAY PRIMER		0	06-14	FOR FABRICATION	FABRICATION	
STEEL NOTES: MISC. SHAPES, P's & BARS - A36 STRUCTURAL STEEL SHAPES - A992 Gr 50 STRUCTURAL TUBING - A500 GR.C STEEL PIPE - A53 GR.B		A	12-10	FOR APPROVAL	APPROVAL	
SHOP CONNECTIONS E70XX (UN)	FIELD CONNECTIONS A325 "N" (UN)	REV.	DATE	DESCRIPTION	PRINTS	NO. DATE
ALL SHOP HOLES TO BE $\frac{3}{16}$ " ϕ (UN)		JOB Norfolk Stormwater Pump Station#12				
SHOP NOTES: ALL STUBS ARE FROM FACE OF CLIP ANGLES ALL HOLE SPACING 3" C/C UNLESS NOTED ALL BLOCK SIZES FROM FACE OF CLIP ANGLES ALL REAR ENTRANT CUTS HAVE A MINIMUM OF $\frac{1}{2}$ " RADIUS CUTS.		LOCATION At Hampton Blvd. Underpass, Norfolk, Virginia				
		CUSTOMER				
		DRAWG. COVERS BAR GRATING DETAILS				
		DATE 12-04-21	JOB NO.		DRWG. NO.	
		CHECKER ALN	DATE 12-04-21		107	



ONE MISC 108M1

(E REFER: E100)
(S REFER: C-201)

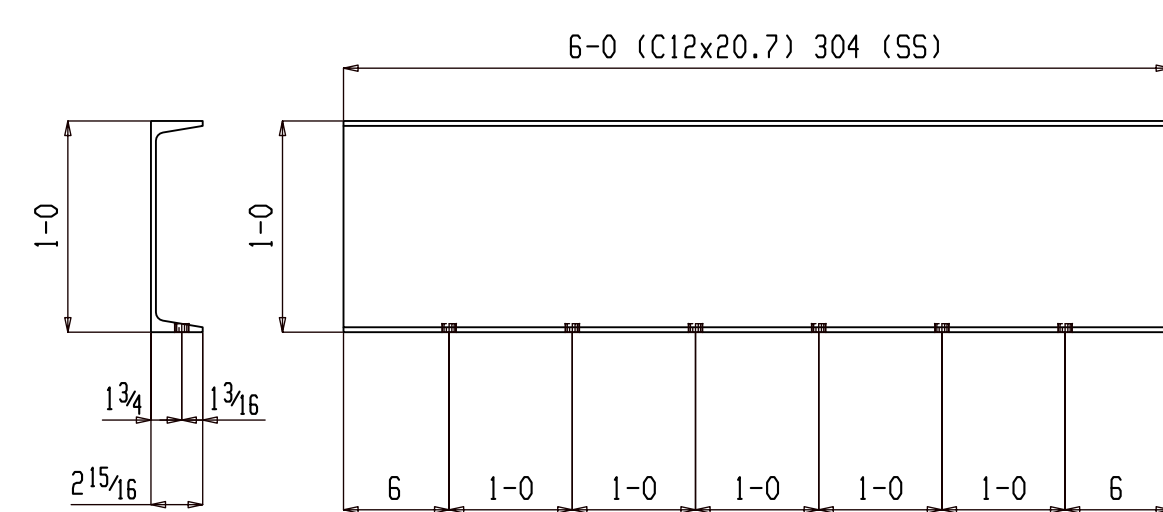
STAINLESS STEEL



ONE MISC 108M2

(E REFER: E100)
(S REFER: C-201)

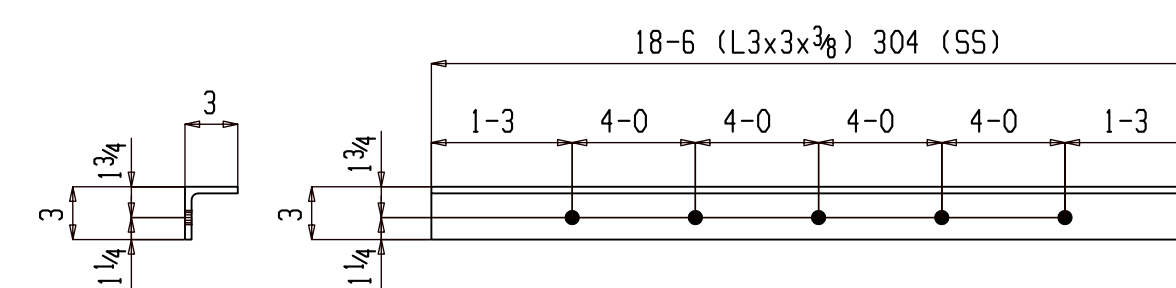
STAINLESS STEEL



ONE MISC 108M3

(E REFER: E100)
(S REFER: C-201)

STAINLESS STEEL



ONE MISC 108M4

(E REFER: E100)
(S REFER: C-201)

STAINLESS STEEL

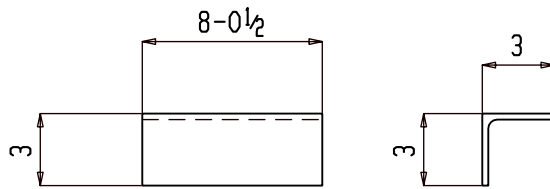
BILL OF MATERIAL

NO.	RE	ASSY	M	MATERIAL	LENGTH	REMARKS
ONE				MISC		
1	108M1			C12x20.7	18-6	304 (SS)
				FIELD BOLTS		
19				5/8" Dia EPOXY SS SCREW	6	(EMBED=4 1/2")
				ANCHOR		
5				1/2" Dia U BOLT (FOR 1 1/4" STD PIPE)	1	T-316 (SS)
ONE				MISC		
1	108M2			C12x20.7	6-0	304 (SS)
				FIELD BOLTS		
7				5/8" Dia EPOXY SS SCREW	6	(EMBED=4 1/2")
				ANCHOR		
2				1/2" Dia U BOLT (FOR 1 1/4" STD PIPE)	1	T-316 (SS)
ONE				MISC		
1	108M3			C12x20.7	6-0	304 (SS)
				FIELD BOLTS		
6				5/8" Dia EPOXY SS SCREW	6	(EMBED=4 1/2")
				ANCHOR		
ONE				MISC		
1	108M4			L3x3x3/8	18-6	304 (SS)
				FIELD BOLTS		
5				5/8" Dia EPOXY SS SCREW	6	(EMBED=4 1/2")
				ANCHOR		

FABRICATION

SHOP CLEAN: SSPC-SP3 SHOP PRIME WITH 1 COAT GRAY OXIDE ALL MATERIAL INT'D "AESS" SHOP CLEANING - SSPC-SP6 SHOP PRIME WITH 1 COAT GRAY PRIMER	0 06-14 FOR FABRICATION FABRICATION				
STEEL NOTES: MISC. SHAPES, P's & BARS - A36 STRUCTURAL STEEL SHAPES - A992 Gr 50 STRUCTURAL TUBING - A500 GR.C STEEL PIPE - A53 GR.B	A 12-10 FOR APPROVAL APPROVAL				
SHOP CONNECTIONS E70XX (UN)	FIELD CONNECTIONS A325 "N" (UN)	REV.	DATE	DESCRIPTION	PRINTS NO. DATE
ALL SHOP HOLES TO BE 3/16" (UN)		JOB Norfolk Stormwater Pump Station#12			
SHOP NOTES: ALL STUBS ARE FROM FACE OF CLIP ANGLES ALL HOLE SPACING 3" C/C UNLESS NOTED ALL BLOCK SIZES FROM FACE OF CLIP ANGLES ALL REAR ENTRANT CUTS HAVE A MINIMUM OF 1/2" RADIUS CUTS.		LOCATION At Hampton Blvd. Underpass, Norfolk, Virginia			
		CUSTOMER			
		DRAWG. COVERS. MISC DETAILS			
		DATE 12-04-21	JOB NO.	DRWG. NO.	
		CHECKER ALN	DATE 12-04-21	108	

REV	DATE	REMARKS
0	06-14-22	FOR FABRICATION



ONE L3x3x $\frac{1}{4}$ x8-0 $\frac{1}{2}$ a28

GRADE: A36

GALVANIZED

Holes $\frac{13}{16}$ \varnothing Unless Noted

PROJECT Norfolk Stormwater Pump Station#12
At Hampton Blvd. Underpass, Norfolk, Virginia

PROJECT NO. :

DRAWN BY

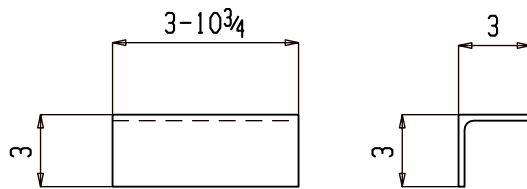
CHK'D BY

JB

ALN

a28

REV	DATE	REMARKS
0	06-14-22	FOR FABRICATION



6 L3x3x1/4x3-10³/₄ a29

GRADE: A36

GALVANIZED

Holes ¹³/₁₆ Ø Unless Noted

PROJECT Norfolk Stormwater Pump Station#12
At Hampton Blvd. Underpass, Norfolk, Virginia

PROJECT NO. :

DRAWN BY

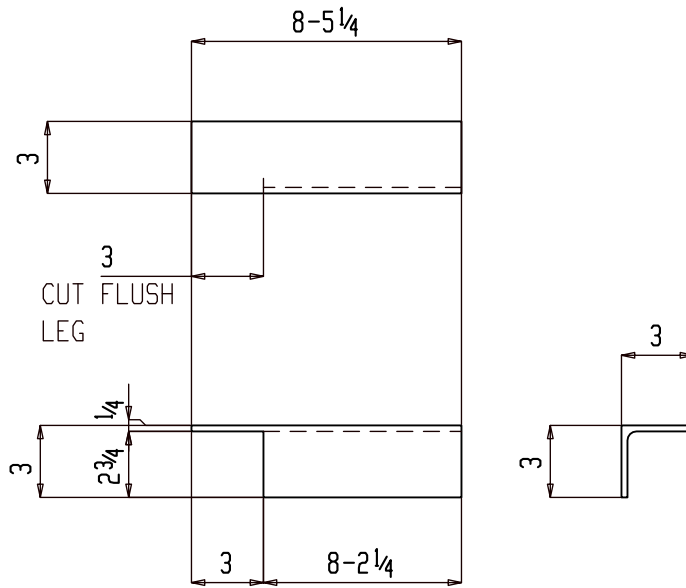
CHK'D BY

JB

ALN

a29

REV	DATE	REMARKS
0	06-14-22	FOR FABRICATION



2 L3x3x1/4x8-5 1/4 a30

GRADE: A36

GALVANIZED

Holes 13/16 Ø Unless Noted

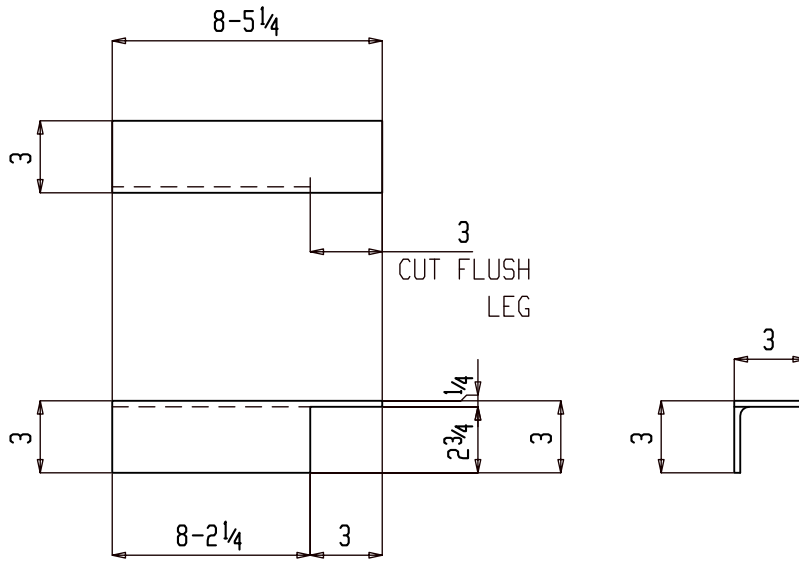
PROJECT Norfolk Stormwater Pump Station#12
At Hampton Blvd. Underpass, Norfolk, Virginia

PROJECT NO. :

DRAWN BY	CHK'D BY
JB	ALN

a30

REV	DATE	REMARKS
0	06-14-22	FOR FABRICATION



ONE L3x3x¹/₄x8-5¹/₄ a31

GRADE: A36

GALVANIZED

Holes ¹³/₁₆ Ø Unless Noted

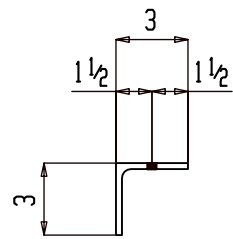
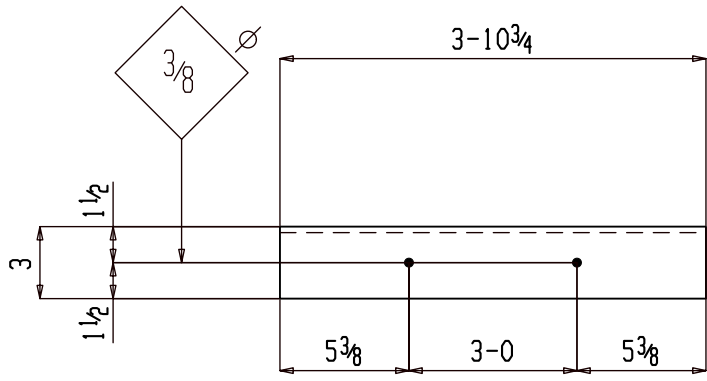
PROJECT Norfolk Stormwater Pump Station#12
At Hampton Blvd. Underpass, Norfolk, Virginia

PROJECT NO. :

DRAWN BY	CHK'D BY
JB	ALN

a31

REV	DATE	REMARKS
0	06-14-22	FOR FABRICATION



Detail A

a32

6 L3x3x1/4x3-10 3/4 a32

GRADE: A36

GALVANIZED

Holes ¹³/₁₆ Ø Unless Noted

PROJECT Norfolk Stormwater Pump Station#12
At Hampton Blvd. Underpass, Norfolk, Virginia

PROJECT NO. :

DRAWN BY

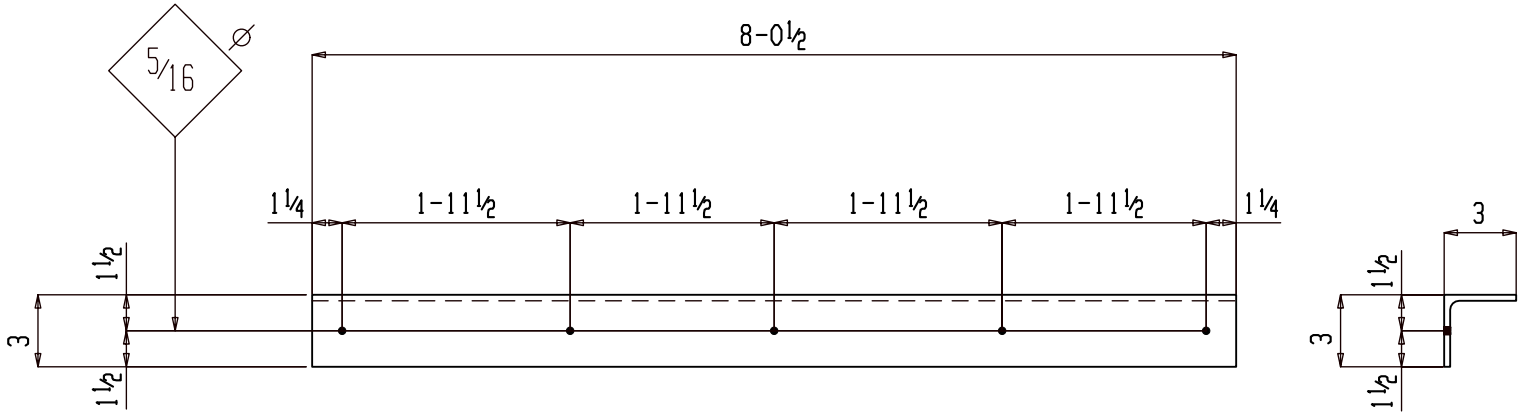
CHK'D BY

JB

ALN

a32

REV	DATE	REMARKS
0	06-14-22	FOR FABRICATION



4 L3x3x1/4x8-0 1/2 a33

GRADE: A36

GALVANIZED

Holes 13/16 Ø Unless Noted

PROJECT Norfolk Stormwater Pump Station#12
At Hampton Blvd. Underpass, Norfolk, Virginia

PROJECT NO. :

DRAWN BY

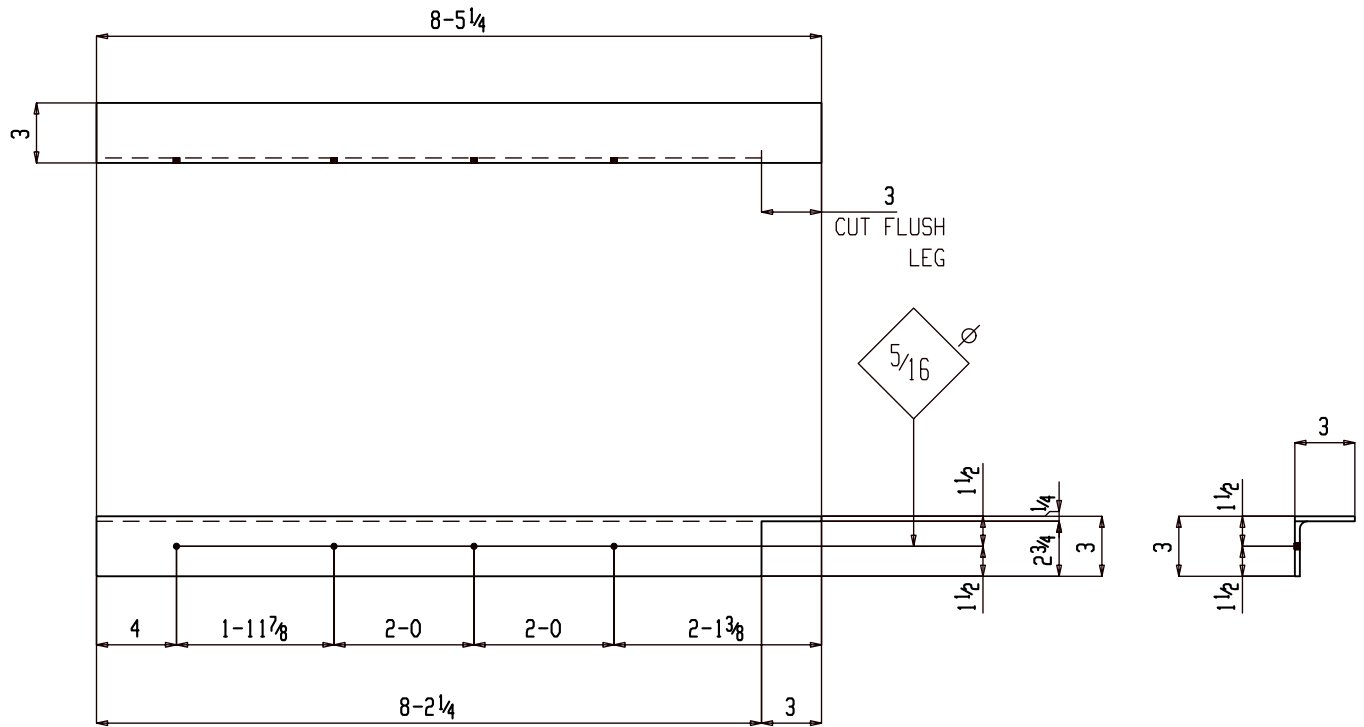
JB

CHK'D BY

ALN

a33

REV	DATE	REMARKS
0	06-14-22	FOR FABRICATION



4 L3x3x1/4x8-5 1/4 a34

GRADE: A36

GALVANIZED

Holes 13/16 Ø Unless Noted

PROJECT Norfolk Stormwater Pump Station#12
At Hampton Blvd. Underpass, Norfolk, Virginia

PROJECT NO. :

DRAWN BY

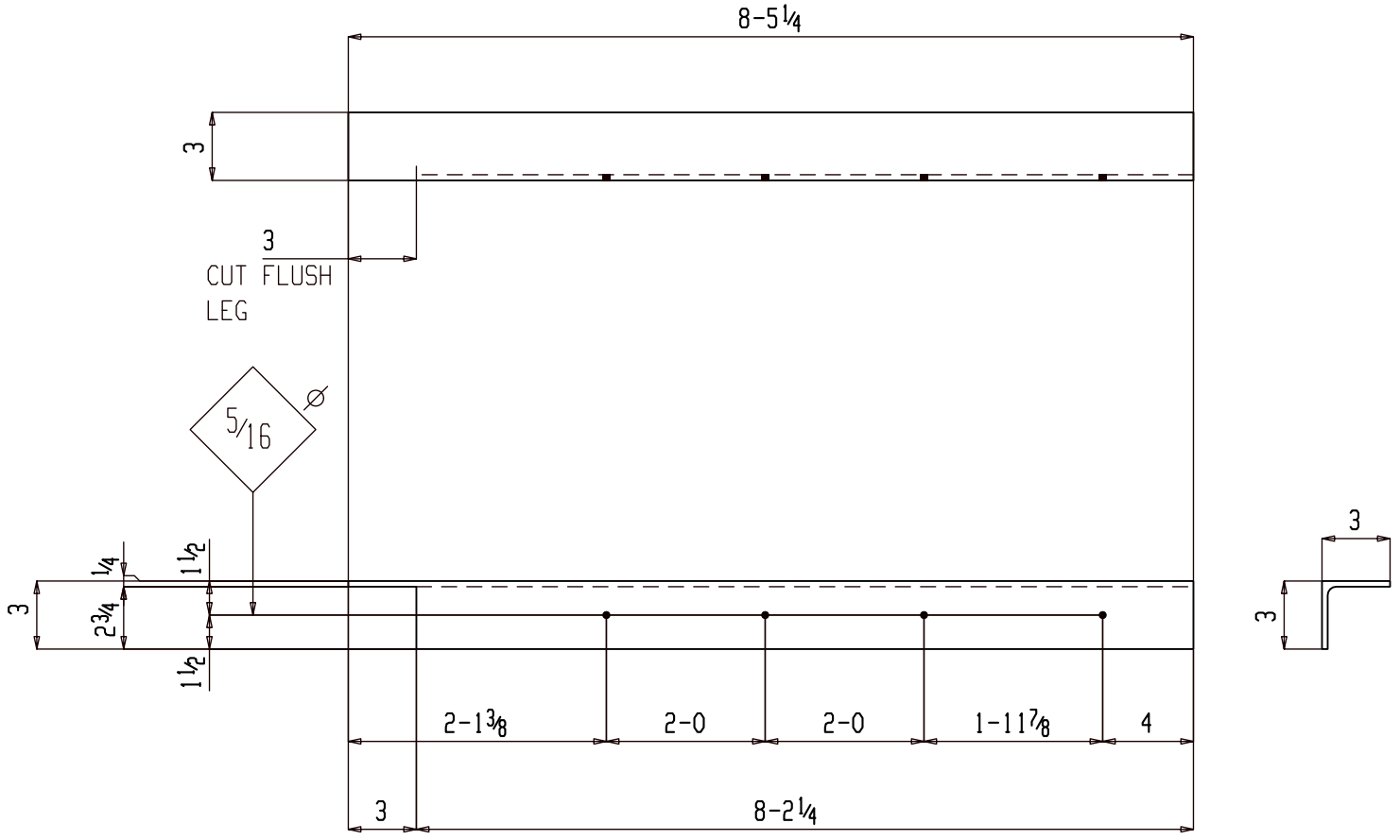
CHK'D BY

JB

ALN

a34

REV	DATE	REMARKS
0	06-14-22	FOR FABRICATION



4 L3x3x1/4x8-5 1/4 a35

GRADE: A36

GALVANIZED

Holes 13/16 Ø Unless Noted

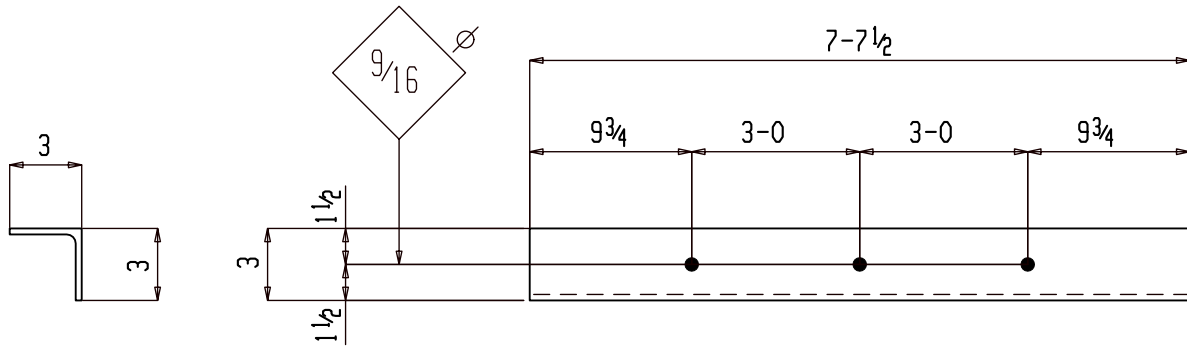
PROJECT Norfolk Stormwater Pump Station#12
At Hampton Blvd. Underpass, Norfolk, Virginia

PROJECT NO. :

DRAWN BY	CHK'D BY
JB	ALN

a35

REV	DATE	REMARKS
0	06-14-22	FOR FABRICATION



2 L3x3x1/4x7-7 1/2 a42

GRADE: A36

GALVANIZED

Holes 13/16 Ø Unless Noted

PROJECT Norfolk Stormwater Pump Station#12
At Hampton Blvd. Underpass, Norfolk, Virginia

PROJECT NO. :

DRAWN BY

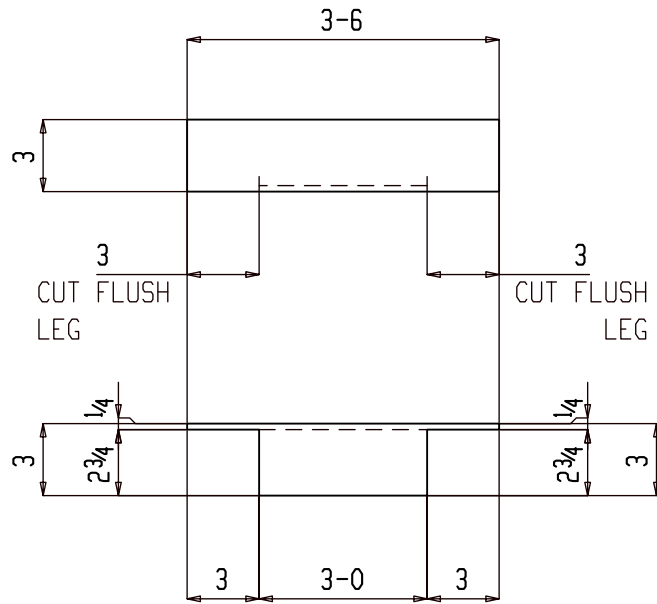
JB

CHK'D BY

ALN

a42

REV	DATE	REMARKS
0	06-14-22	FOR FABRICATION



2 L3x3x1/4x3-6 a47

GRADE: A36

GALVANIZED

Holes ¹³/₁₆ Ø Unless Noted

PROJECT Norfolk Stormwater Pump Station#12
At Hampton Blvd. Underpass, Norfolk, Virginia

PROJECT NO. :

DRAWN BY

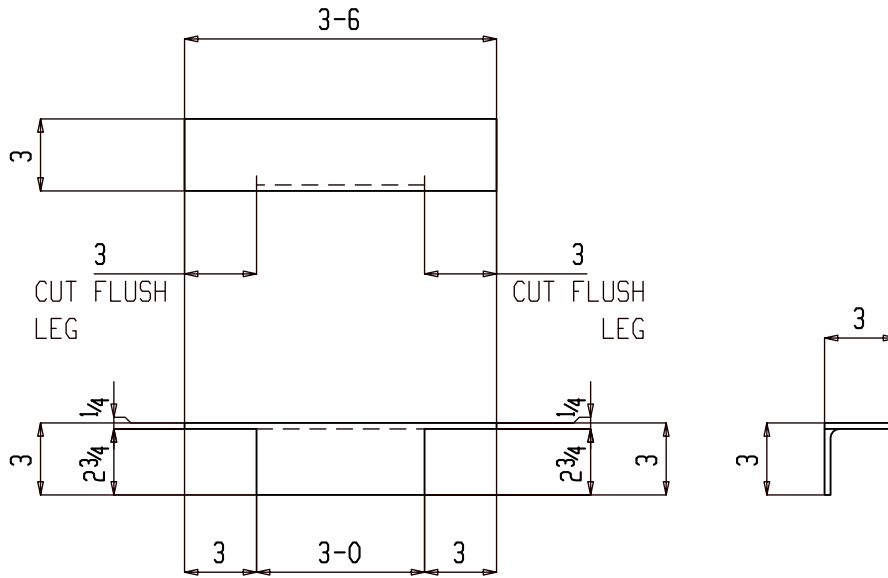
CHK'D BY

JB

ALN

a47

REV	DATE	REMARKS
0	06-14-22	FOR FABRICATION



2 L3x3x $\frac{1}{4}$ x3-6 a50

GRADE: A36

GALVANIZED

Holes $\frac{13}{16}$ \varnothing Unless Noted

PROJECT Norfolk Stormwater Pump Station#12
At Hampton Blvd. Underpass, Norfolk, Virginia

PROJECT NO. :

DRAWN BY

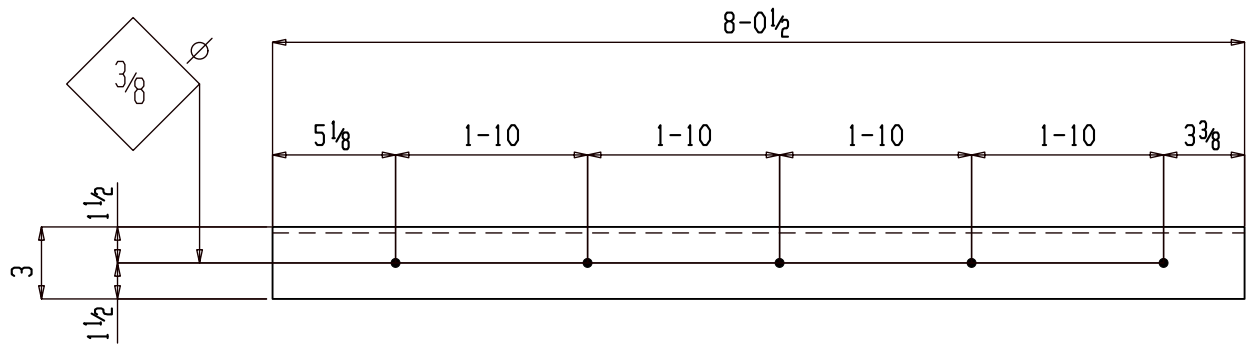
CHK'D BY

JB

ALN

a50

REV	DATE	REMARKS
0	06-14-22	FOR FABRICATION



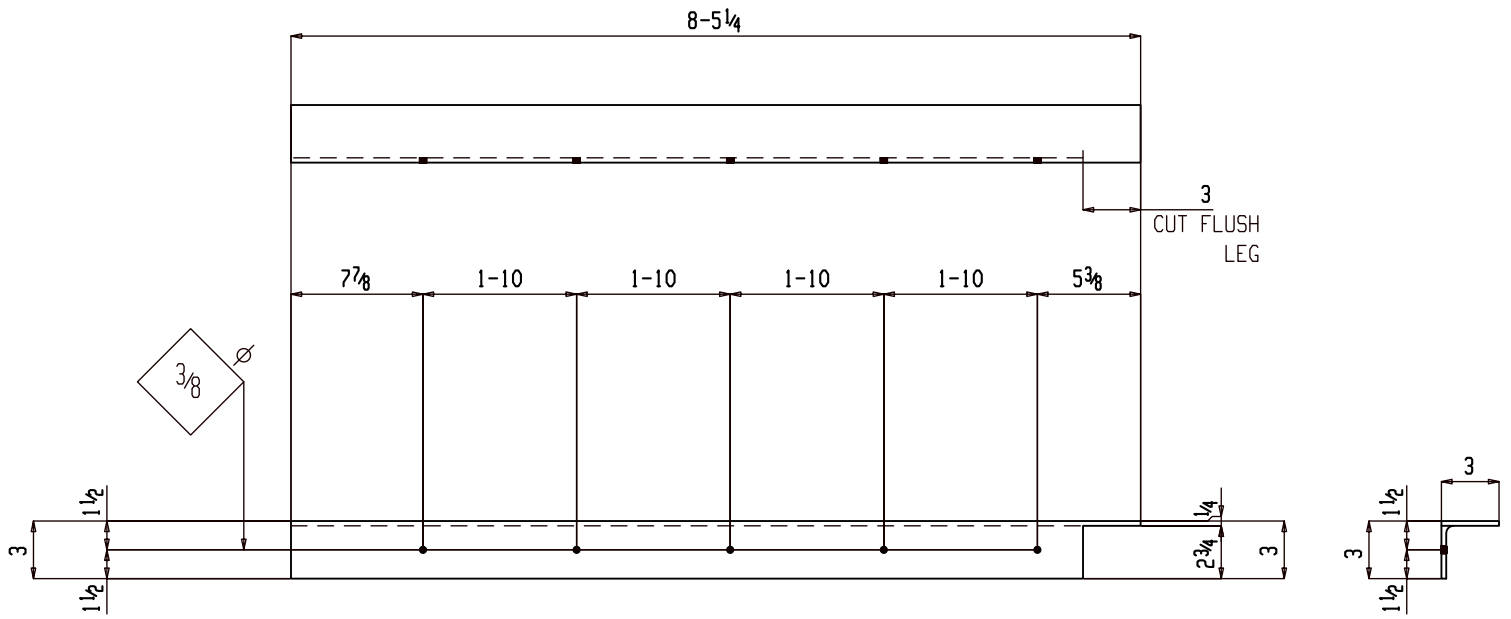
ONE L3x3x1/4x8-0 1/2 a54
 GRADE: A36

GALVANIZED

Holes 13/16 Ø Unless Noted

PROJECT	Norfolk Stormwater Pump Station#12 At Hampton Blvd. Underpass, Norfolk, Virginia	PROJECT NO. :	
		DRAWN BY	CHK'D BY
		JB	ALN
			a54

REV	DATE	REMARKS
0	06-14-22	FOR FABRICATION



ONE L3x3x1/4x8-5/4 a58

GRADE: A36

GALVANIZED

Holes 13/16 Ø Unless Noted

PROJECT Norfolk Stormwater Pump Station#12
At Hampton Blvd. Underpass, Norfolk, Virginia

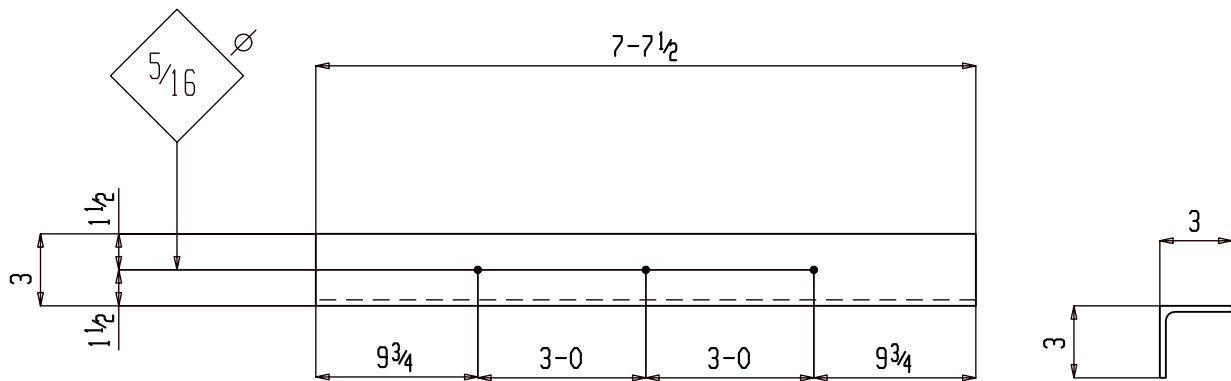
PROJECT NO. :

DRAWN BY
JB

CHK'D BY
ALN

a58

REV	DATE	REMARKS
0	06-14-22	FOR FABRICATION



2 L3x3x1/4x7-7 1/2 a61

GRADE: A36

GALVANIZED

Holes 13/16 Ø Unless Noted

PROJECT Norfolk Stormwater Pump Station#12
At Hampton Blvd. Underpass, Norfolk, Virginia

PROJECT NO. :

DRAWN BY	CHK'D BY
JB	ALN

a61