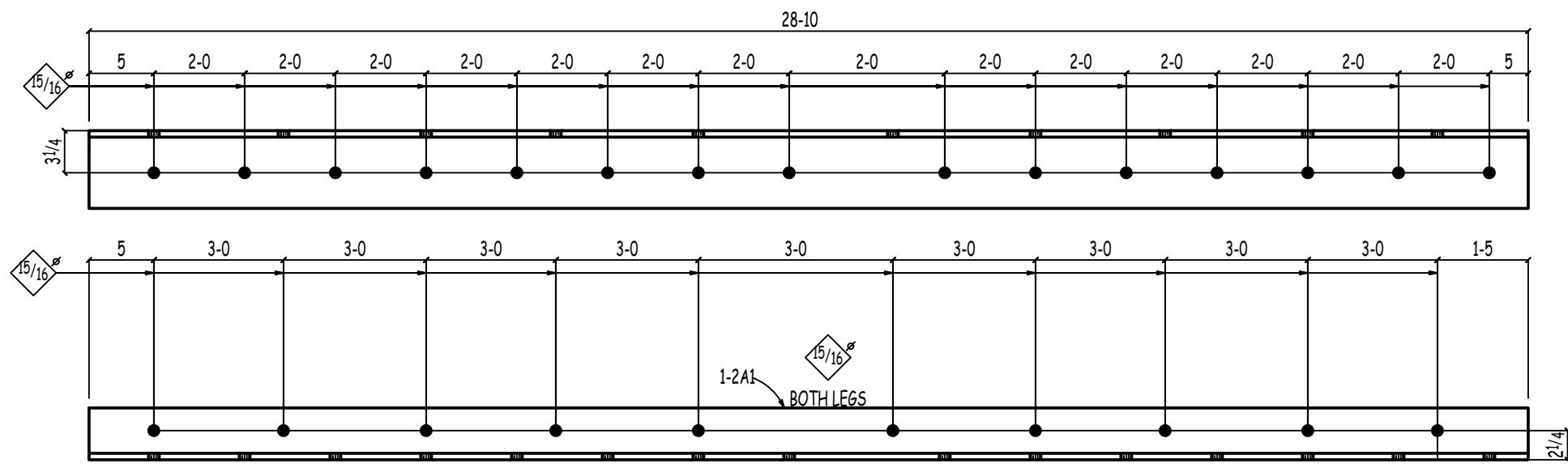


General note:
Is 15/16" dia. hole industry standard for 3/4" bolts?

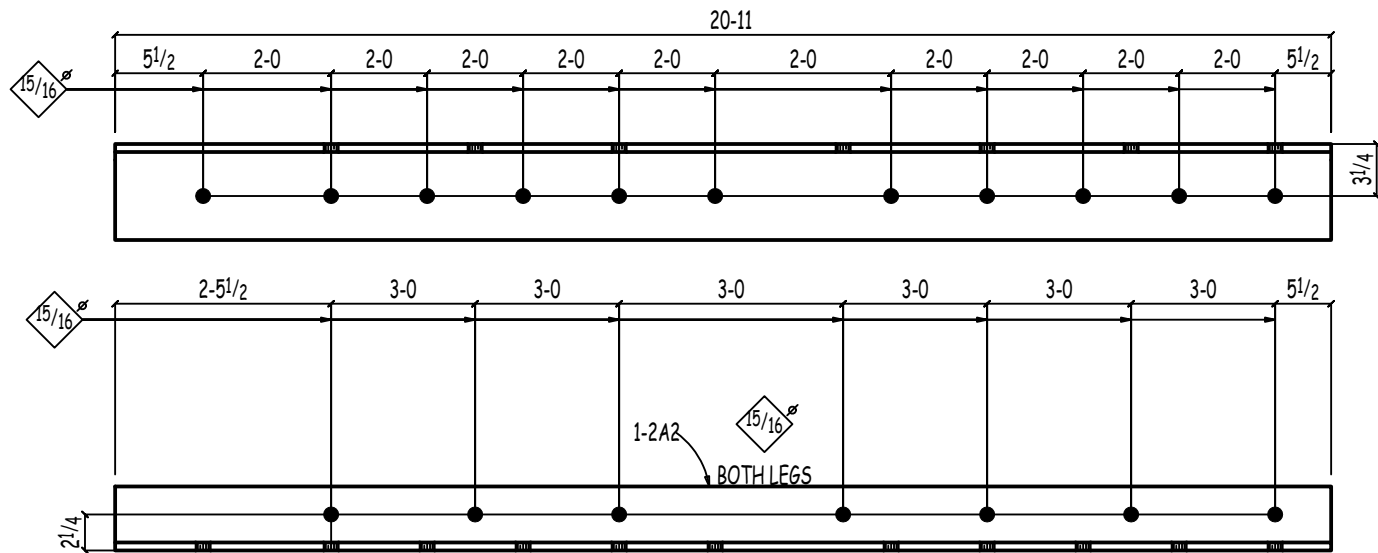
I'm leaning toward 13/16" instead.
Can you please call/email your thoughts.

If you don't see 13/16" being a problem, let's do that throughout the set.



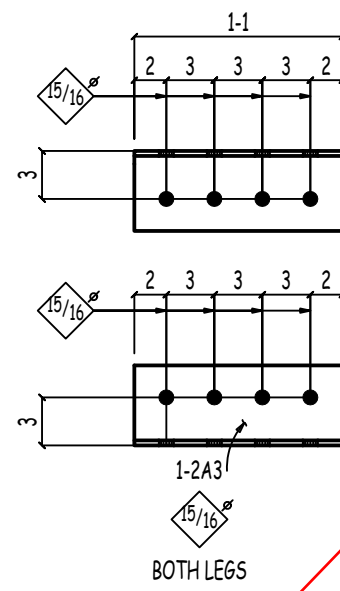
ONE ANGLE 2A1

FIELD BOLTS:
15-3/4diax5/4 SLEEVE ANC GALV (total=15)
10-3/4diax2 1/2 SLEEVE ANC GALV (total=10)



ONE ANGLE 2A2

FIELD BOLTS:
11-3/4diax5/4 SLEEVE ANC GALV (total=11)
7-3/4diax2 1/2 SLEEVE ANC GALV (total=7)



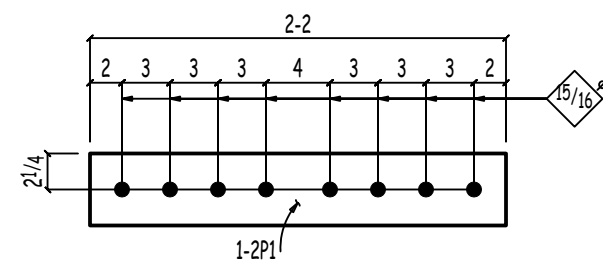
13 ANGLES 2A3

FIELD BOLTS:
8-3/4diax1 1/2 LAG BOLT (total=104)

VERIFY LAG
BOLT LENGTH

Please verify bent
steel plate.

(96) 3/4" x 4 1/2" lags
(4) 3/4" x 6 1/2" thru bolts and nuts



5 PLATES 2P1

FIELD BOLTS:
8-3/4diax1 1/2 LAG BOLT GALV (total=40)

VERIFY LAG
BOLT LENGTH

3/4" x 4 1/2"

TOTAL SHEET WEIGHT: 990

BILL OF MATERIAL

SEQ	MARK	QTY	DESCRIPTION	LENGTH	WEIGHT	REMARKS
1	2A1	ONE	ANGLE			465 Galv
	2A1	1	L6x4x1/2	28	10	465 A36
			FIELD BOLTS			
		15	3/4 Dia SLEEVE ANC	0	6 1/4	GALV
		10	3/4 Dia SLEEVE ANC	0	2 1/2	GALV
1	2A2	ONE	ANGLE			337 Galv
	2A2	1	L6x4x1/2	20	11	337 A36
			FIELD BOLTS			
		11	3/4 Dia SLEEVE ANC	0	6 1/4	GALV
		7	3/4 Dia SLEEVE ANC	0	2 1/2	GALV
1	2A3	13	ANGLE			11
	2A3	13	L5x5x3/16	1	1	11 A36
			FIELD BOLTS			
		104	3/4 Dia LAG BOLT	0	1 1/2	
1	2P1	5	PLATE			10 Galv
	2P1	5	PL 5/16x4 1/2	2	2	10 A36
			FIELD BOLTS			
		40	3/4 Dia LAG BOLT	0	1 1/2	GALV

CERTIFIED
FABRICATOR

NOTE:
These drawings are the property of Endres Mfg. Co. and are for the sole purpose of fabrication and installation of the products shown. There are no changes, modifications or corrective measures to fabricated materials of any changes for such measures will be allowed without prior notification to and agreement with Endres Mfg. Co.

REVISION NOTE:
UNLESS OTHERWISE NOTED, ALL CONNECTIONS TO BE MADE WITH 1/2" DIA. SMOOTH END 1/2" WITH ONE HARDENED WASHER UNDER THE TURNED ELEMENT NUT OR BOLT HEAD.
SHOP NOTE:
PAINT SPEC MARK ON LEFT END AS DETAIL. ALL MEMBER END CONNECTIONS SHALL BE SHARP NOTCH FREE TO A RADIUS OF AT LEAST 1/2" INCH.

WIDE FLANGE (I/N)
A-992 GR-50

PARTS MATERIAL (U/N)
A-36

TUBE MATERIAL (U/N)
A-500 GR-B

SURFACE PREPARATION
SSPC-SP 2,3

SHOP PAINT SHERWIN WILLIAMS
STEEL-SPEC

FIELD CONNECTIONS
AS NOTED

HOLES (U/N)
13/16 Ø

USE NO. 70XX WELD ROD
ALL COMPLETE JOINT PENETRATION
BUTT WELDS LOW HYDROGEN 7018

APPROVER NOTE:
The details of structural steel shown on this sheet are developed from the engineering, architectural or owners design drawings and/or specifications provided to Endres Mfg. Co. It is the professional responsibility of the approving engineer, architect or owner to verify that the sections as detailed are properly identified and that all connections developed on these detail drawings comply with the intent of the engineers, architects or owners design.

802 Century Ave., P.O. Box 217
Waunakee, Wisconsin 53597
Hwy. Q at Village Limits
Phone (608) 849 - 4143
Fax (608) 849 - 7903

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OPENING DESIGN

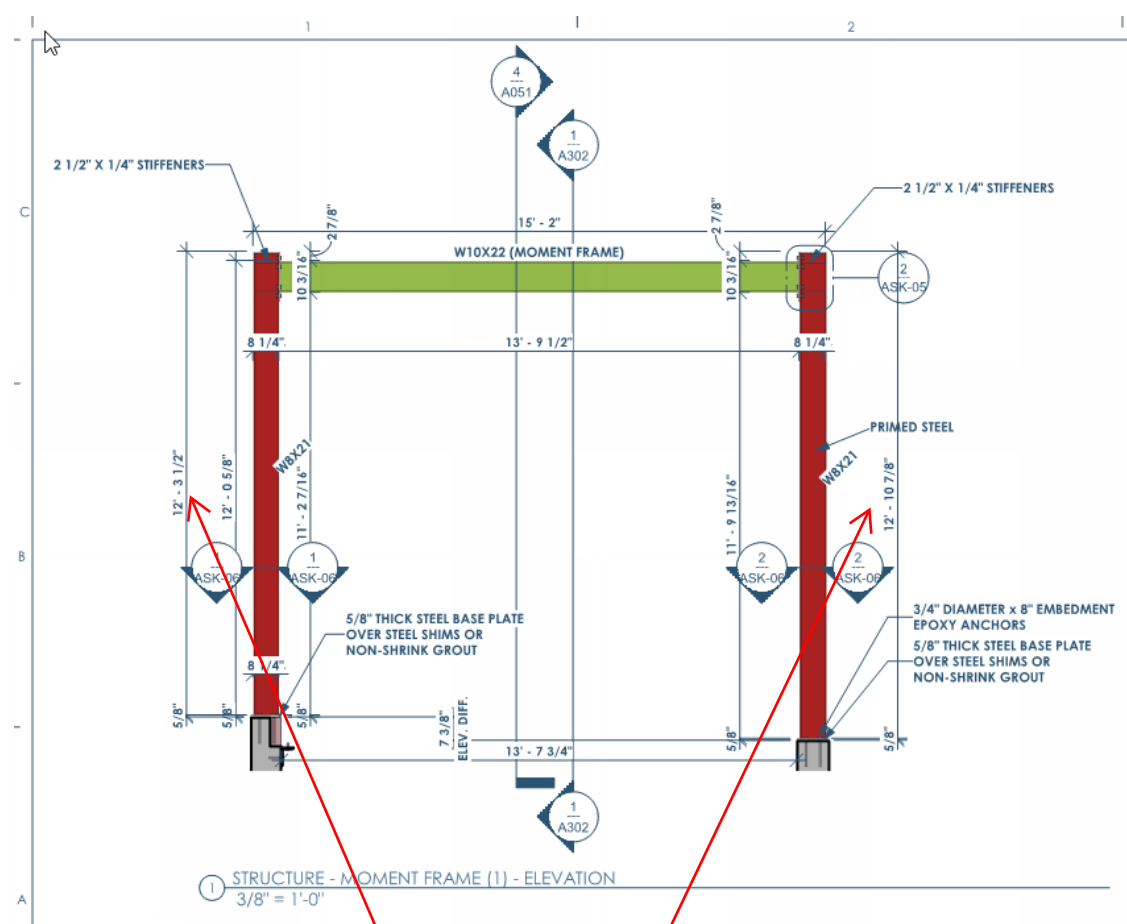
STOUGHTON, WI

AALSETH

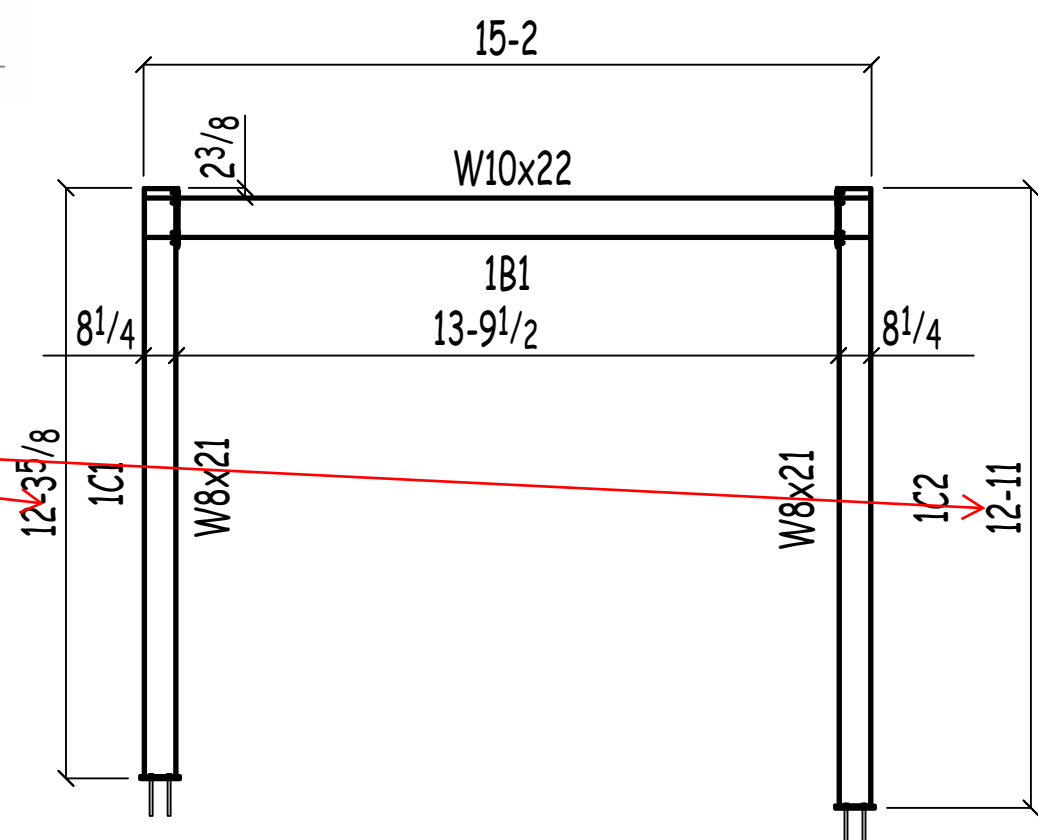
DATE
06-18-19

JOB NO.
8926

DRAWG. NO.
2

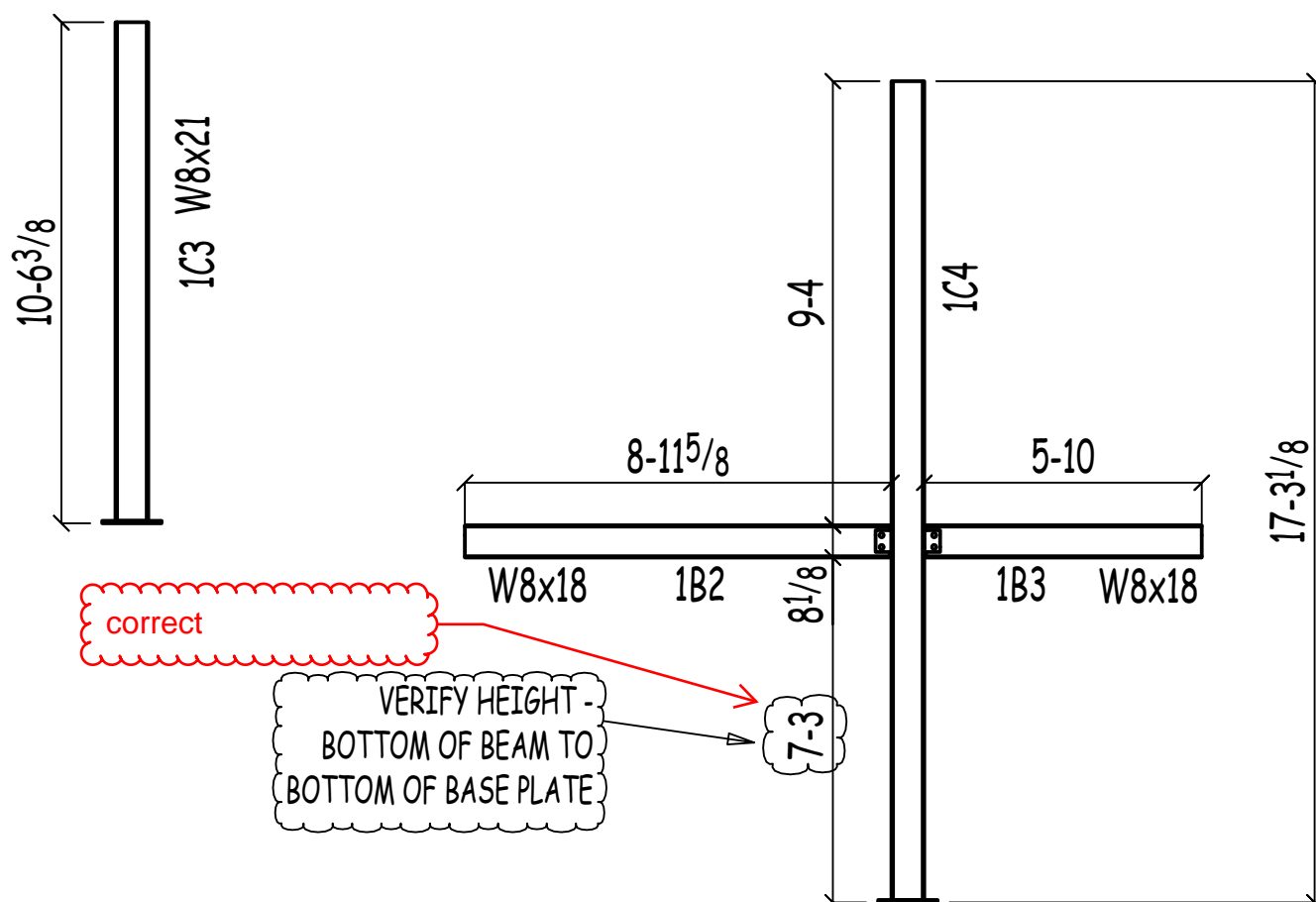


please cross check
dimensions from
drawings dated
6/12/2019



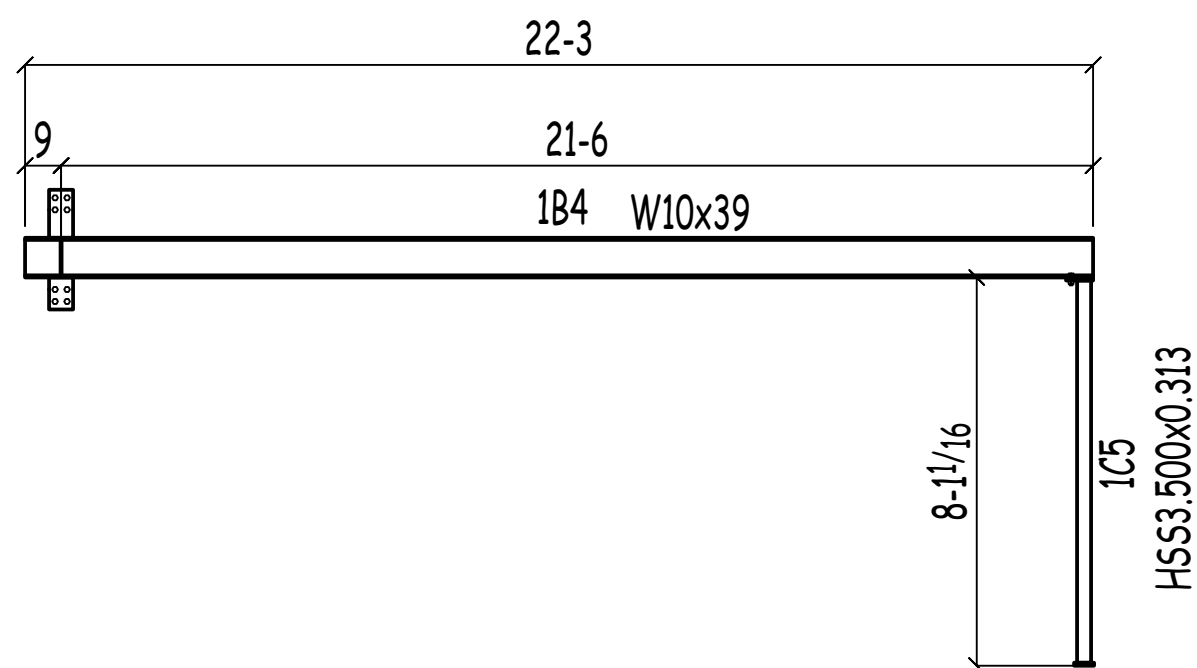
FRAME 1

PER SHEET: ASK-05



FRAME 2

PER SHEET: ASK-07



FRAME 3

PER SHEET: ASK-13

General note:
Is 15/16" dia. hole industry standard for 3/4" bolts?

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CERTIFIED FABRICATOR			
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<small>SHOP NOTE: PAINT/PURGE MARK ON LEFT SIDE AS DETAILER. ALL CONNECTIONS SHALL BE SHOWN NOTCH FREE TO A RADIUS OF AT LEAST 1/2 INCH.</small>			
WIDE FLANGE (U.N.) A-992 GR-50		REV. DATE DESCRIPTION DETAILER	
PARTS MATERIAL (U.N.) A-36		FIELD	
TUBE MATERIAL (U.N.) A-500 GR-B		SHOP	
SURFACE PREPARATION		APPROVAL	
SHOP PAINT		PRINTS	
FIELD CONNECTIONS AS NOTED		NO. DATE NO. DATE NO. DATE NO. DATE	
HOLES (U.N.) 13/16		APPROVAL	
USE NO. 70XX WELD ROD ALL COMPLETE JOINT PENETRATION BUTT WELDS LOW HYDROGEN 7018		DATE 06-18-19	
APPROVER NOTE: The details of structural steel shown on this sheet are developed from the engineering, architectural or owners design drawings and/or specifications provided to Endres Mfg. Co. It is the professional responsibility of the approving engineer, architect or owner to verify that the sections as detailed are properly identified and that all connections developed on these detail drawings comply with the intent of the engineers, architects or owners design.		JOB NO. 8926	
CUSTOMER AALSETH		DRAWING NO. E1	
LOCATION STOUGHTON, WI		JOB OPENING DESIGN	
DETAILER LK MS		JOB NO. 8926	
DATE 06-18-19		JOB NO. 8926	
JOB NO. 8926		JOB NO. 8926	