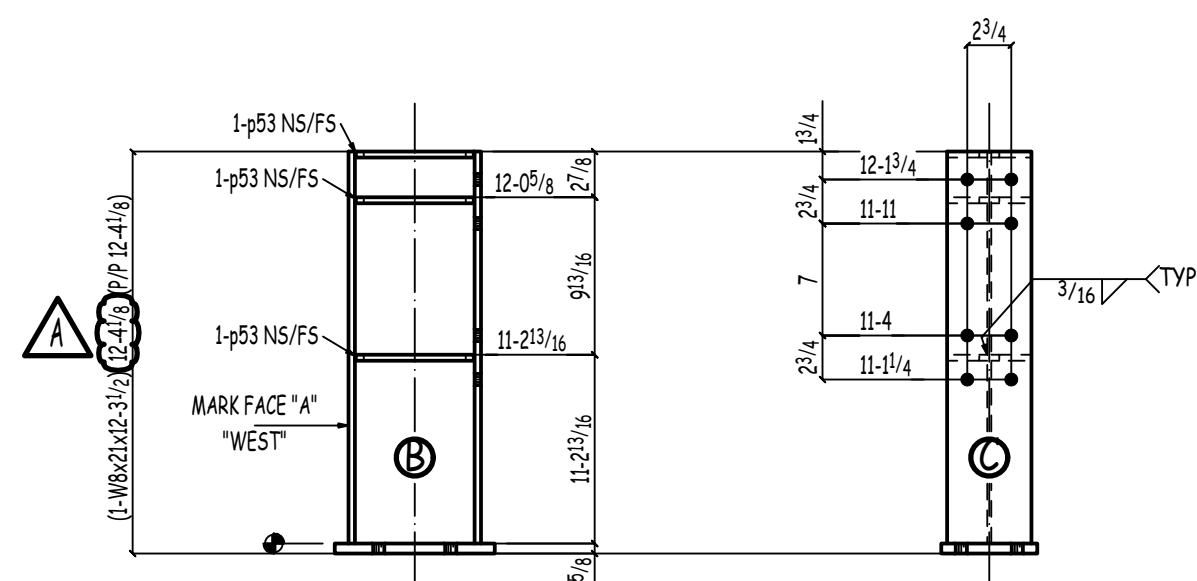


BILL OF MATERIAL

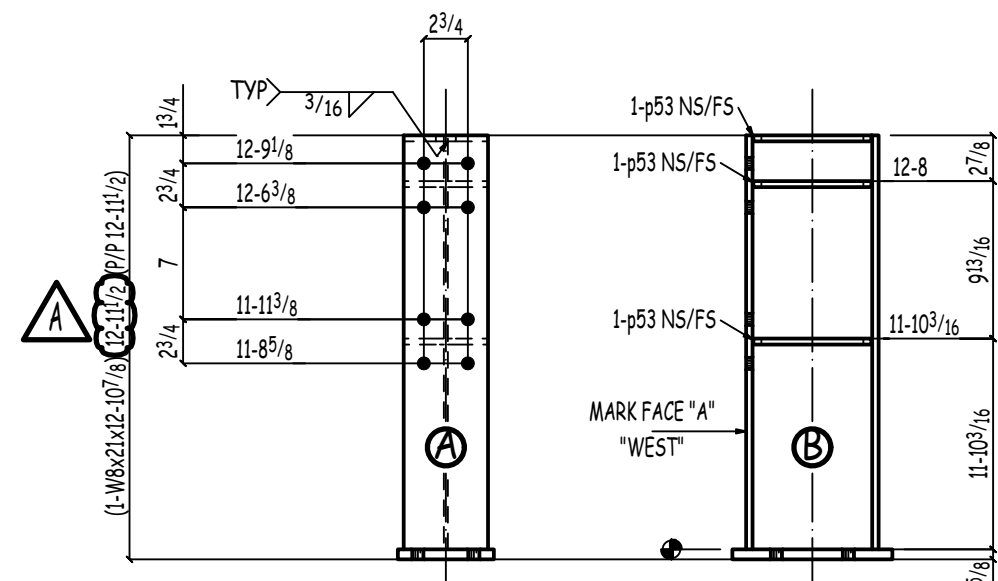
SEQ	MARK	QTY	DESCRIPTION	LENGTH	WEIGHT	REMARKS
1	1C1		ONE COLUMN			280
	1C1	1	W8x21	12	3 1/2	258 A992
	BP1	1	PL 5/8x6	0	10	10 A36
	p53	6	FL 3/8x2 1/2	0	7 3/8	2 A36
			FIELD BOLTS			
		4	5/8 Dia EPOXY ANC	0	10	
1	1C2		ONE COLUMN			292
	1C2	1	W8x21	12	10 7/8	271 A992
	BP1	1	PL 5/8x6	0	10	10 A36
	p53	6	FL 3/8x2 1/2	0	7 3/8	2 A36
			FIELD BOLTS			
		4	5/8 Dia EPOXY ANC	0	10	
1	1C3		ONE COLUMN			236
	1C3	1	W8x21	10	5 3/4	220 M1E A992
	BP2	1	PL 5/8x6	1	3	16 A36
1	1C4		ONE COLUMN			381
	1C4	1	W8x21	17	2 1/2	361 M1E A992
	BP2	1	PL 5/8x6	1	3	16 A36
	p1	2	FL 3/8x4	0	5 1/2	2 A36
1	1C5		ONE COLUMN			100
	1C5	1	PIPE 3 SCH 80	7	11 9/16	82 M2E A500B
	p55	1	FL 3/4x8	0	6 3/4	11 A36
	BP3	1	FL 3/4x4	0	8 1/2	7 A36
1	1B1		ONE BEAM			324
	1B1	1	W10x22	13	8 1/2	302 A992
	p5	2	PL 1/2x5 1/4	1	4	11 A36
			FIELD BOLTS			
		16	3/4 Dia A325N	0	2	+1HD WASH
1	1B2		ONE BEAM			161
	1B2	1	W8x18	8	11 1/8	161 A992
			FIELD BOLTS			
		2	3/4 Dia A325N	0	1 3/4	+1HD WASH
1	1B3		ONE BEAM			104
	1B3	1	W8x18	5	8 1/2	104 A992
			FIELD BOLTS			
		2	3/4 Dia A325N	0	1 3/4	+1HD WASH
1	1B4		ONE BEAM			895
	1B4	1	W10x39	22	3	868 A992
	p14	2	PL 1-0x3 1/8	0	6	4 A36
	p15	2	PL 8x3 1/8	0	6	2 A36
	p65	2	PL 1/4x3 3/4	0	8 13/16	2 A36
		8	3/4 Dia THRD ROD	0	7	1 +1HD WASH
			FIELD BOLTS			
		2	3/4 Dia A325N	0	2 1/2	+1HD WASH



ONE COLUMN 1C1

W | 8 1/4x1/4
F | 5 1/4x3/8
K | 7/8x5/8

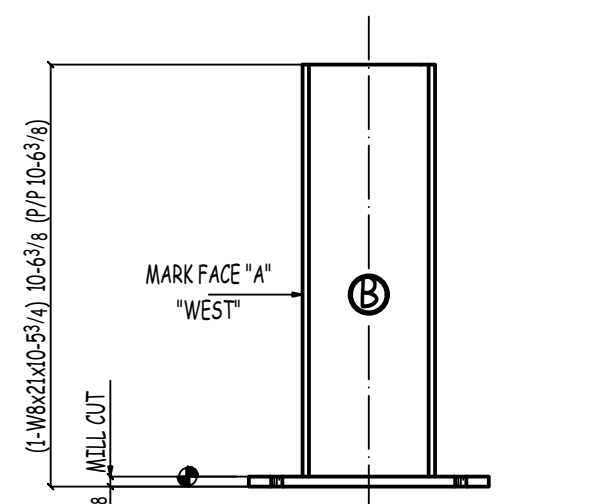
FIELD BOLTS:
4-5/8 Dia x10 (8" EMBED) EPOXY ANC [total=4]



ONE COLUMN 1C2

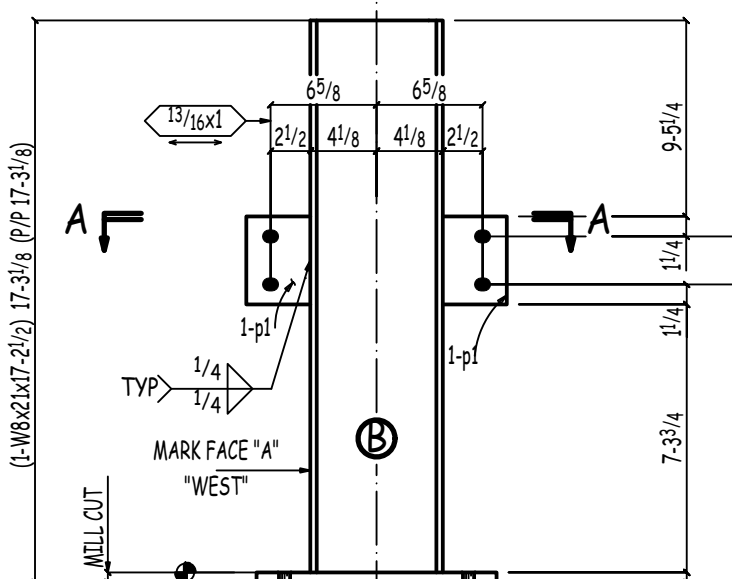
W | 8 1/4x1/4
F | 5 1/4x3/8
K | 7/8x5/8

FIELD BOLTS:
4-5/8 Dia x10 (8" EMBED) EPOXY ANC [total=4]



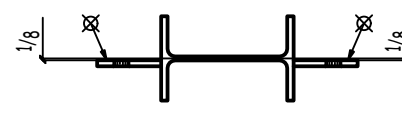
ONE COLUMN 1C3

W | 8 1/4x1/4
F | 5 1/4x3/8
K | 7/8x5/8

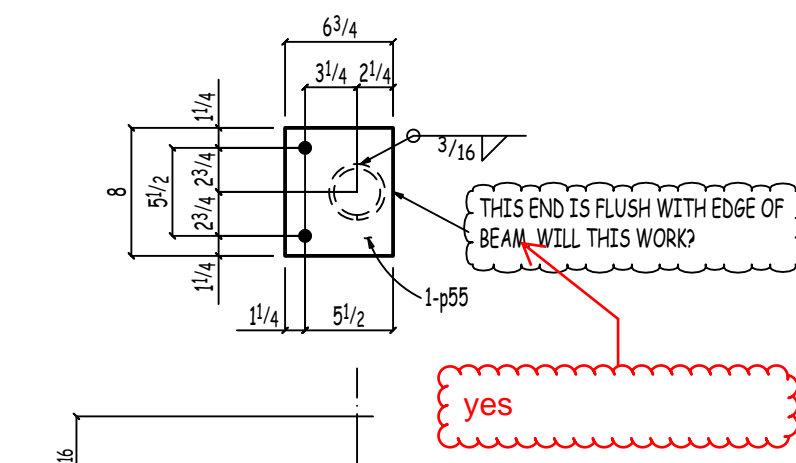


ONE COLUMN 1C4

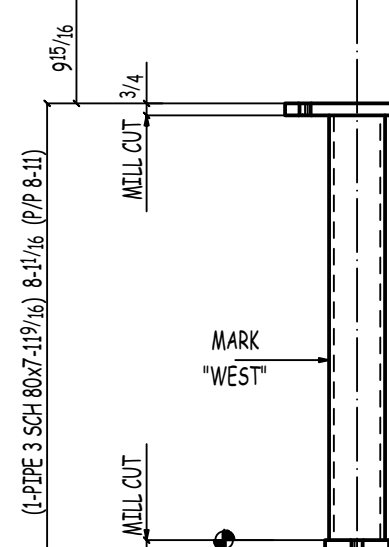
W | 8 1/4x1/4
F | 5 1/4x3/8
K | 7/8x5/8



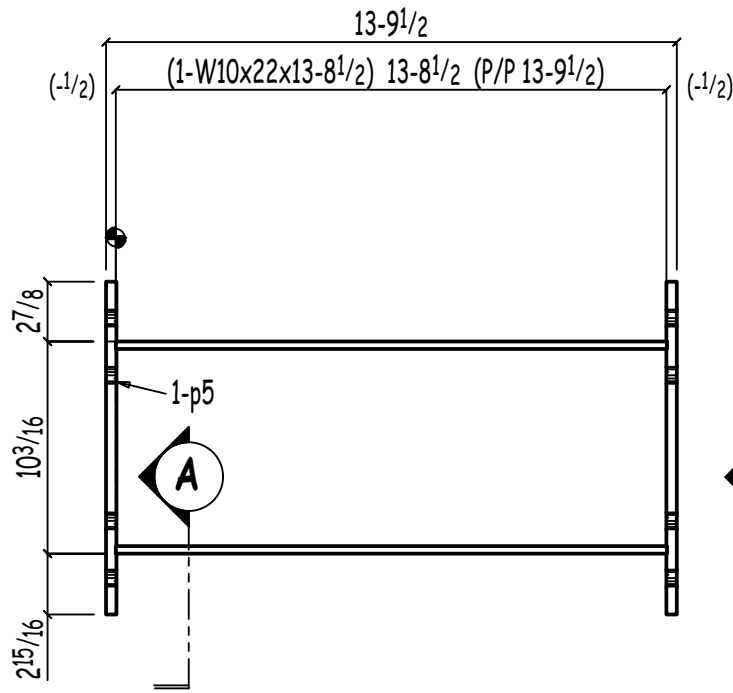
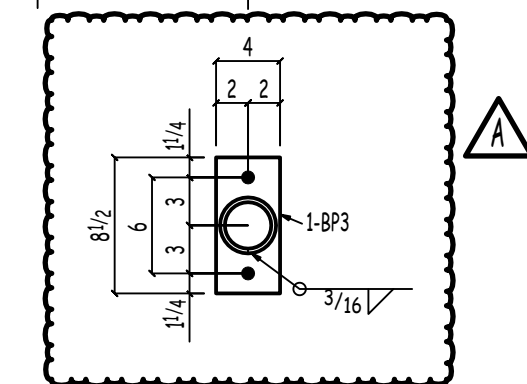
Section A-A



yes



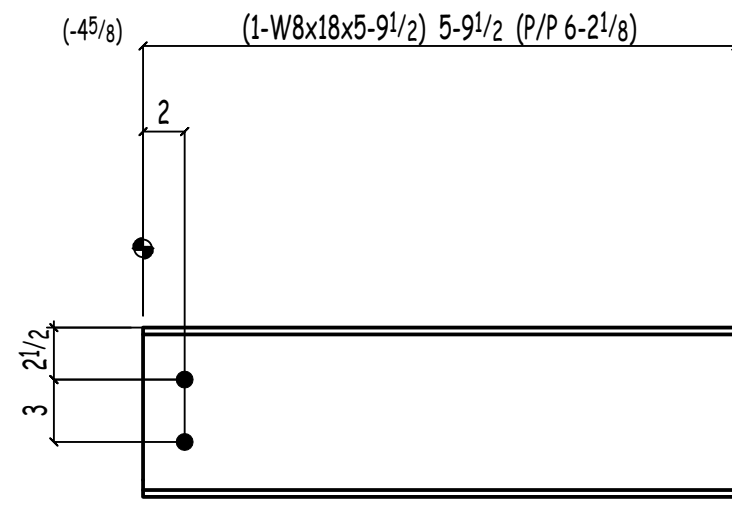
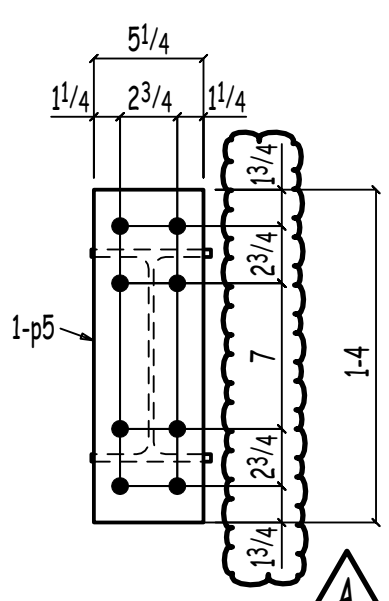
ONE COLUMN 1C5



ONE BEAM 1B1

W | 10 3/16x1/4
F | 5 3/4x3/8
K | 15/16x11/16

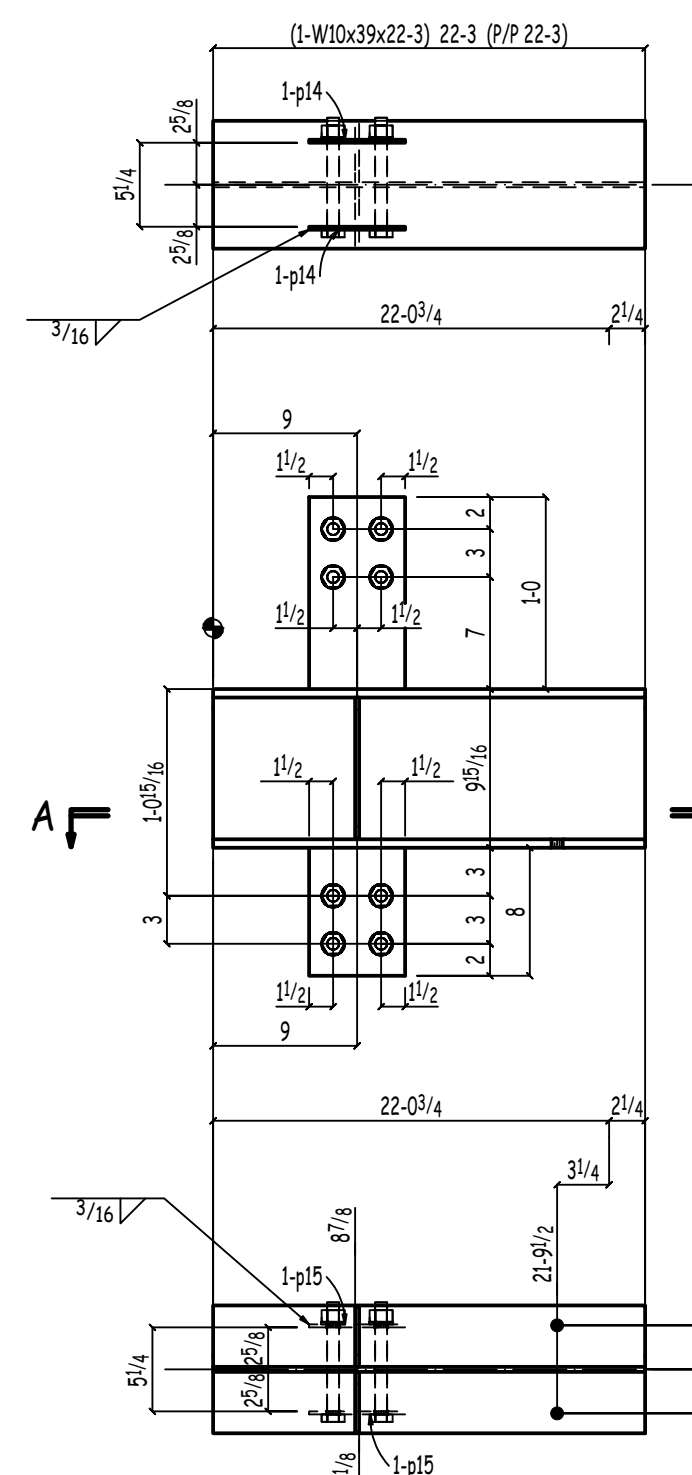
FIELD BOLTS:
16-3/4 Dia x2 A325N +1HD WASH [total=16]



ONE BEAM 1B3

W | 8 1/8x1/4
F | 5 1/4x3/8
K | 13/16x5/8

FIELD BOLTS:
2-3/4 Dia x13/4 A325N +1HD WASH [total=2]



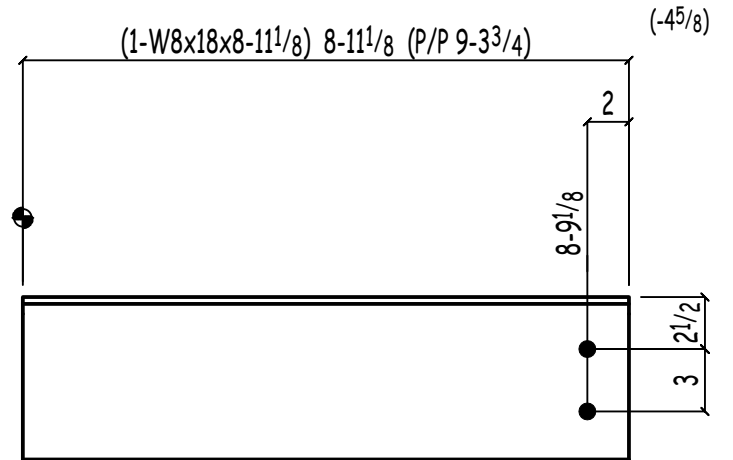
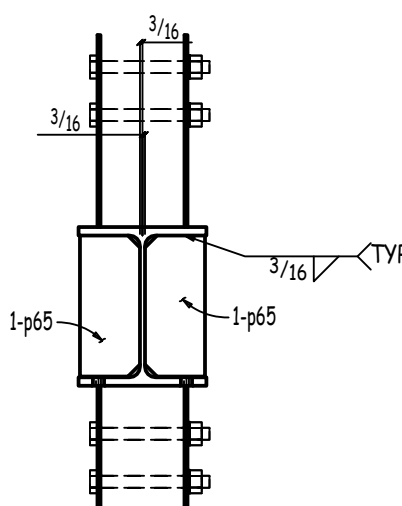
Section A-A

ONE BEAM 1B4

W | 10 1/2x3/8
F | 8x1/2
K | 13/16x13/16

FIELD BOLTS:
2-3/4 Dia x2 1/2 A325N +1HD WASH [total=2]

SHOP BOLTS:
8-3/4 Dia x7 THRD ROD +1HD WASH [total=8]



ONE BEAM 1B2

W | 8 1/8x1/4
F | 5 1/4x3/8
K | 13/16x3/8

FIELD BOLTS:
2-3/4 Dia x13/4 A325N +1HD WASH [total=2]

in general: I think there might have been a misunderstanding.

I was calling for 3/4" bolts or lags with 13/16" holes throughout the project.



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REVISION NOTE: UNLESS OTHERWISE NOTED, ALL CONNECTIONS TO BE MADE WITH A325 HIGH STRENGTH BOLT WITH ONE HARDENED WASHER UNDER THE TUBED ELEMENT NUT OR BOLT HEAD.

SHOP NOTE: PAINT PREP WORK ON ALL MEMBER SURFACES SHALL BE SHOWN NOTCH FREE TO A RADIUS OF AT LEAST 1/2 INCH.

WIDE FLANGE (I/N)

A-992 GR-50

PARTS MATERIAL (I/N)

A-36

TUBE MATERIAL (I/N)

A-500 GR-B

SURFACE PREPARATION

SSPC-SP 2,3

SHOP PAINT SHERWIN WILLIAMS

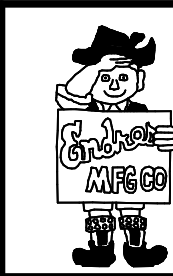
STEEL-SPEC

FIELD CONNECTIONS

AS NOTED

HOLDERS (I/N)

13/16



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

OPENING DESIGN

LOCATION

STOUGHTON, WI

CUSTOMER

AALSETH

DATE

06-18-19

JOB NO.

8926

DRAWING NO.

1

I was calling for 3/4" bolts or lags with 13/16" holes throughout the project.



3. A



FIELD BOLTS

 $\triangle A$ 

**AISC CERTIFIED
FABRICATOR**

ERECTOR NOTE:
UNLESS OTHERWISE NOTED - ALL CONNECTIONS TO BE MADE WITH A325 HIGH STRENGTH BOLTS WITH ONE HARDENED WASHER UNDER THE TURNED ELEMENT NUT OR BOLT HEAD

SHOP NOTE:
PAINT PIECE MARK ON LEFT END AS DETAILLED
ALL RE-ENTRANT CORNERS SHALL BE SHAPED NOTCH FREE TO A

A-992 GR-50

TUBE MATERIAL (UN)

SURFACE PREPARATION

SHOP PAINT SHERWIN WILL

FIELD CONNECTIONS	HOLE:
AS NOTED	13/

USE NO. 70XX WELD ROD
ALL COMPLETE JOINT PENETRATING
BUTT WELDS LOW HYDROGEN ZONE

The details of structural steel shown on the responsibility of the approving engineer, and

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

MS

CUSTOMER	
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DETAILED	CHECKED
JK	MS

or owner to verify that the se

OPENING DESIGN

STOUGHTON, VT.

STOUGHTON, WI

AALSETH

DATE	JOB NO.
	0001

06-18-19	8926	
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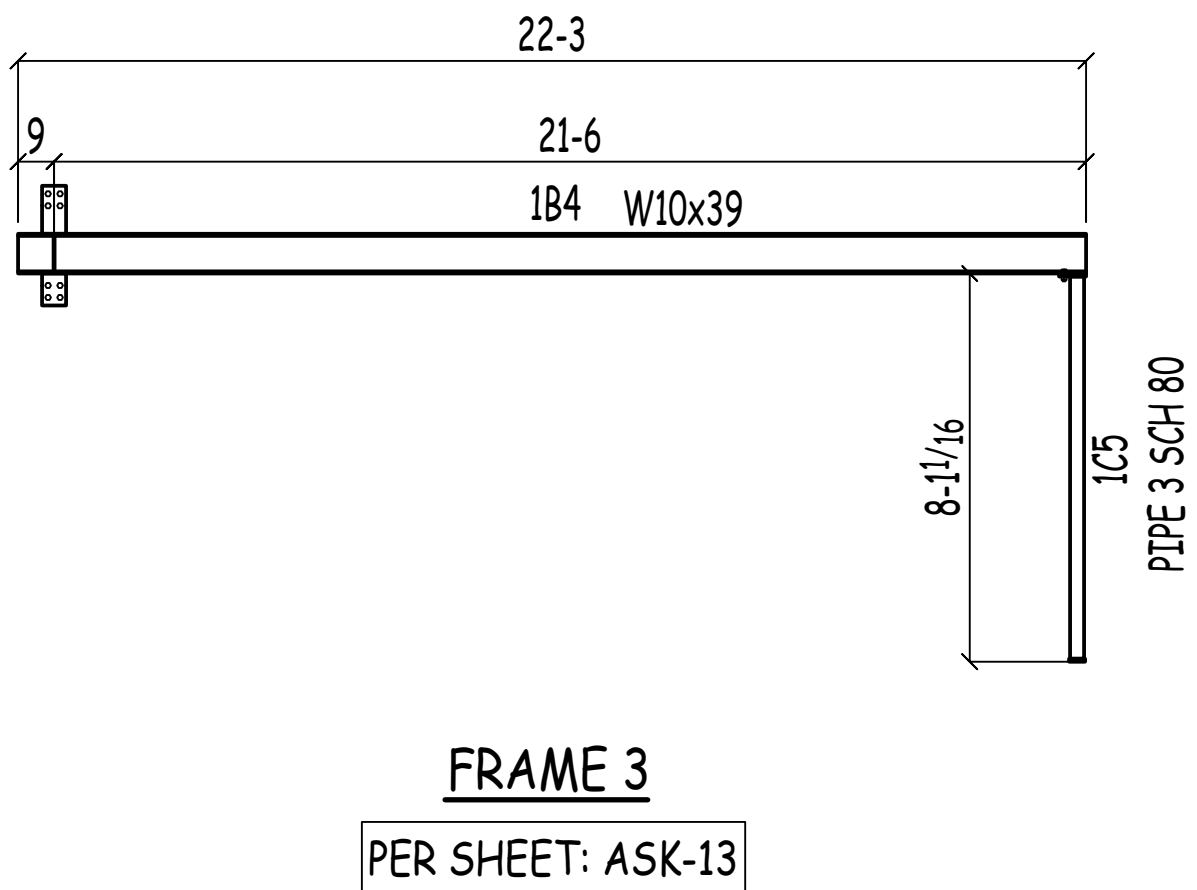
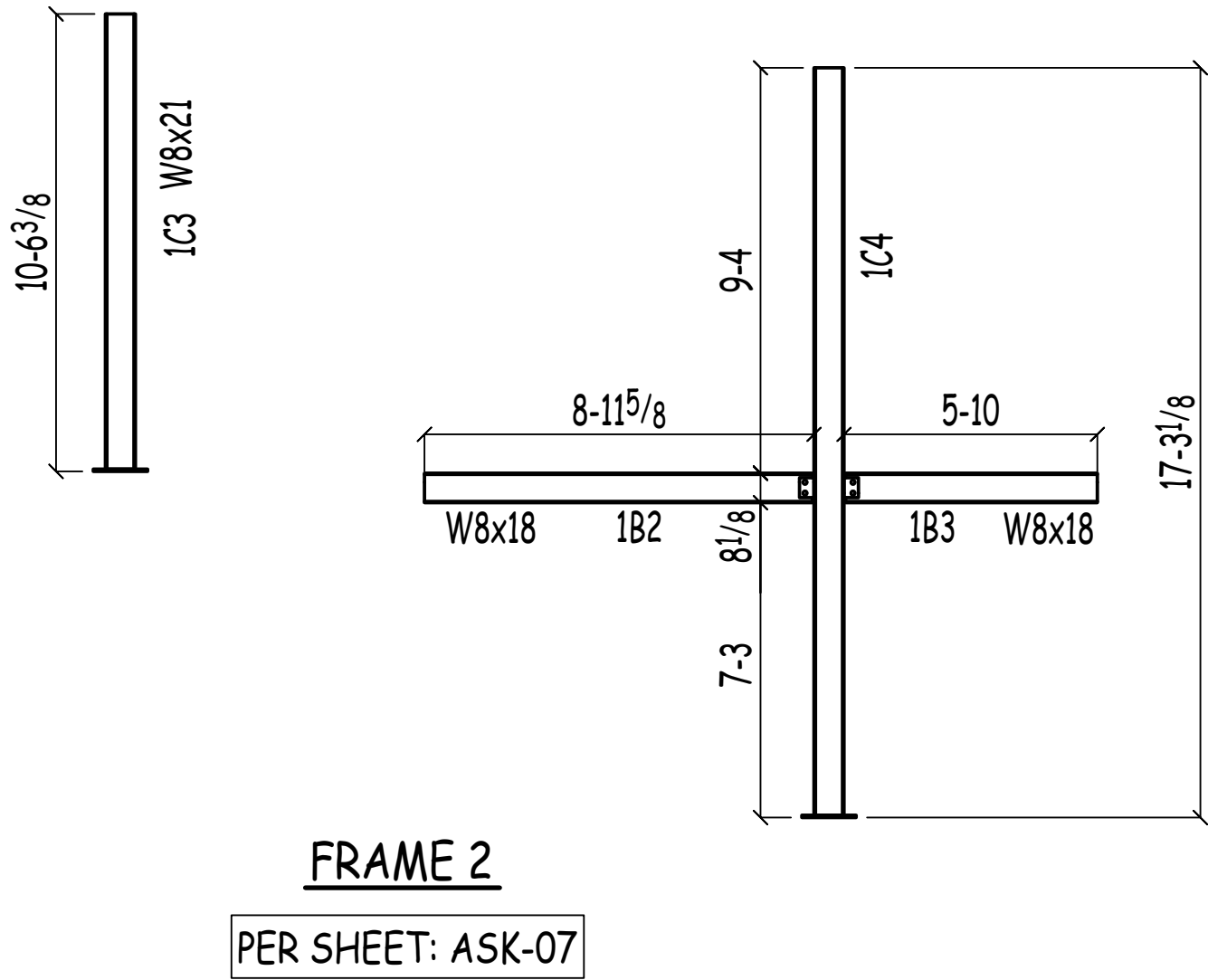
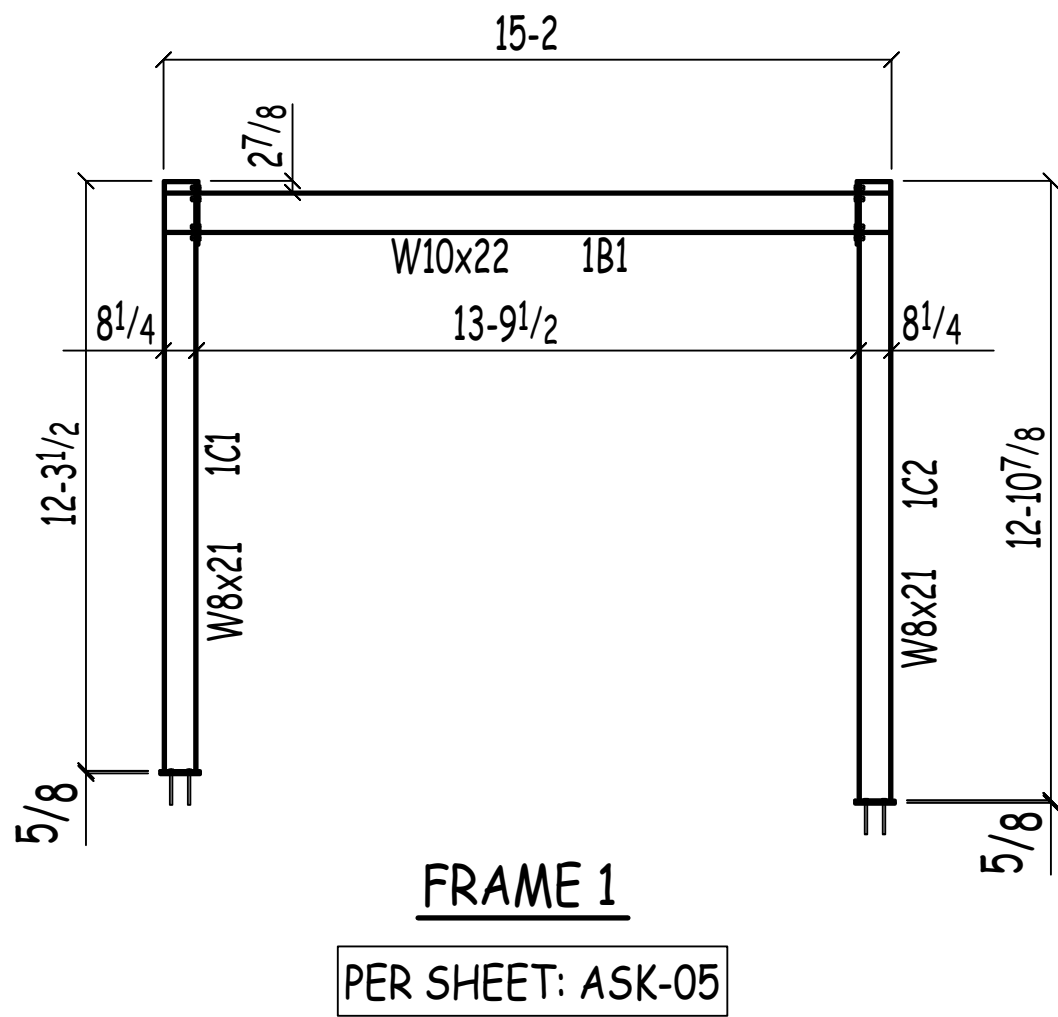
Architectural or owners design drawings and/or specifications provided to Endres & ...


etailed are properly identified and that all connections developed on these details

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

in general: I think there might have been a misunderstanding.

I was calling for 3/4" bolts or lags with 13/16" holes throughout the project.



			
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<small>SHOP NOTE: PAINT/PURCE MARK ON LEFT END AS DETAILER. ALL CONNECTIONS SHALL BE SHARP NOTCH FREE TO A RADIUS OF AT LEAST 1/2 INCH.</small>		<small>REV. DATE DESCRIPTION</small>	
<small>WIDE FLANGE (U.N.) A-992 GR-50</small>		<small>REV. DATE DESCRIPTION</small>	
<small>PARTS MATERIAL (U.N.) A-36</small>		<small>REV. DATE DESCRIPTION</small>	
<small>TUBE MATERIAL (U.N.) A-500 GR-B</small>		<small>REV. DATE DESCRIPTION</small>	
<small>SURFACE PREPARATION</small>		<small>REV. DATE DESCRIPTION</small>	
<small>SHOP PAINT</small>		<small>REV. DATE DESCRIPTION</small>	
<small>FIELD CONNECTIONS AS NOTED</small>		<small>REV. DATE DESCRIPTION</small>	
<small>HOLES (U.N.) 13/16</small>		<small>REV. DATE DESCRIPTION</small>	
<small>USE NO. 70XX WELD ROD</small>		<small>REV. DATE DESCRIPTION</small>	
<small>ALL COMPLETE JOINT PENETRATION</small>		<small>REV. DATE DESCRIPTION</small>	
<small>BUTT WELDS LOW HYDROGEN 7018</small>		<small>REV. DATE DESCRIPTION</small>	
<small>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.</small>		<small>REV. DATE DESCRIPTION</small>	
<small>APPROVER: LK MS</small>		<small>REV. DATE DESCRIPTION</small>	
<small>DATE 06-18-19</small>		<small>REV. DATE DESCRIPTION</small>	
<small>JOB NO. 8926</small>		<small>REV. DATE DESCRIPTION</small>	
<small>DRAWING NO. E1</small>		<small>REV. DATE DESCRIPTION</small>	
<small>APPROVER: LK MS</small>		<small>REV. DATE DESCRIPTION</small>	
<small>DATE 06-18-19</small>		<small>REV. DATE DESCRIPTION</small>	
<small>JOB NO. 8926</small>		<small>REV. DATE DESCRIPTION</small>	
<small>DRAWING NO. E1</small>		<small>REV. DATE DESCRIPTION</small>	