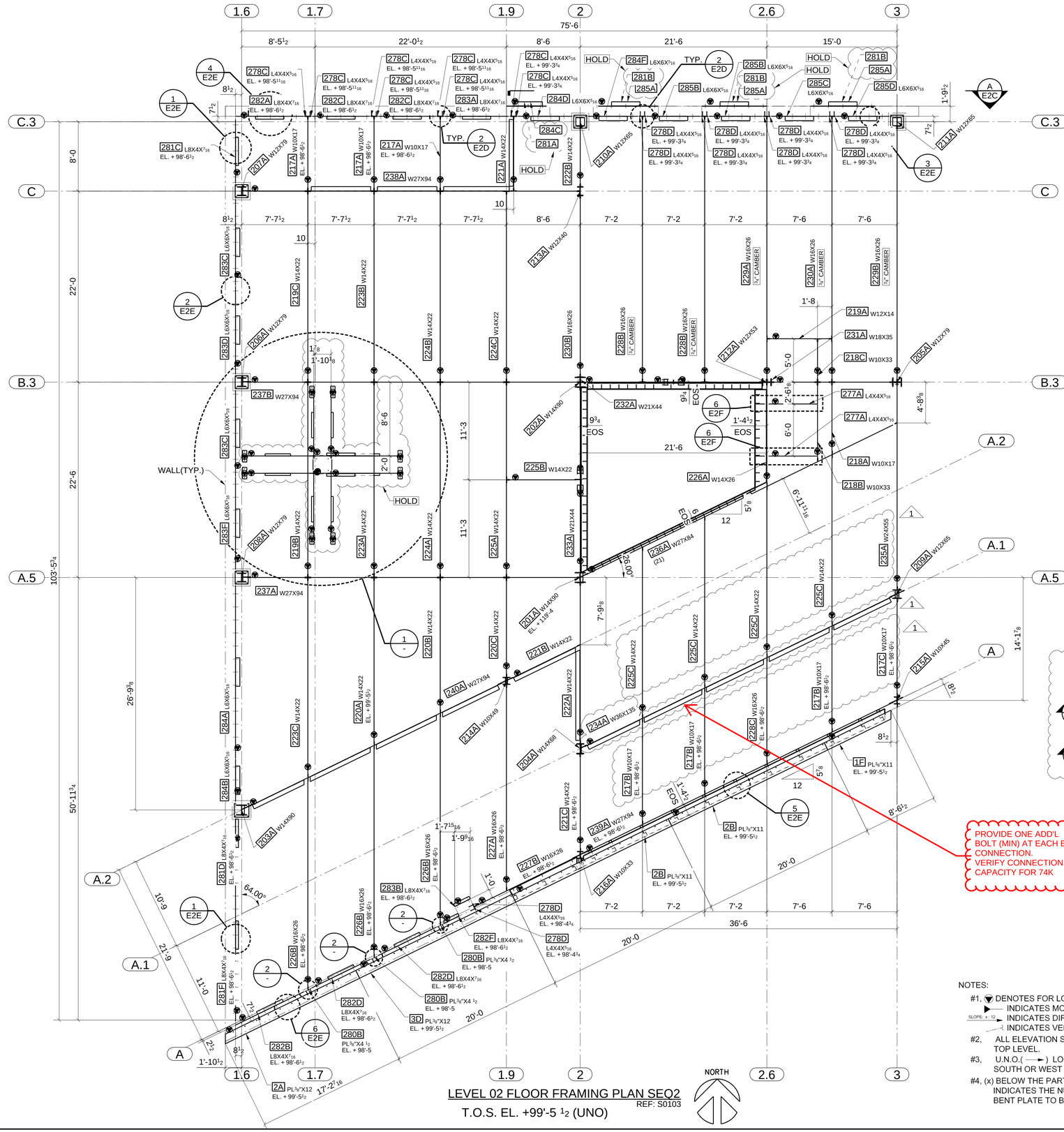
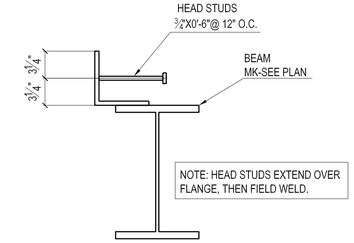
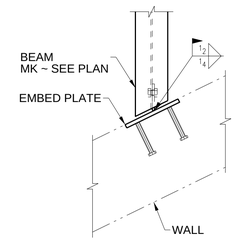
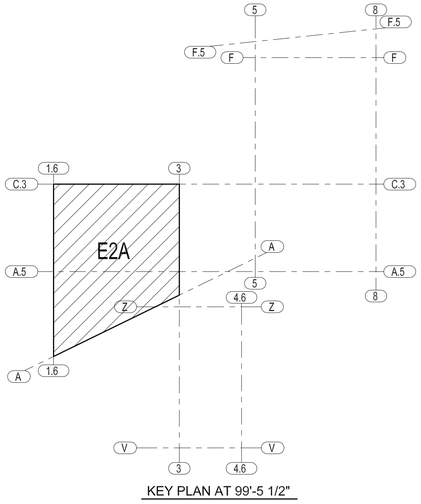


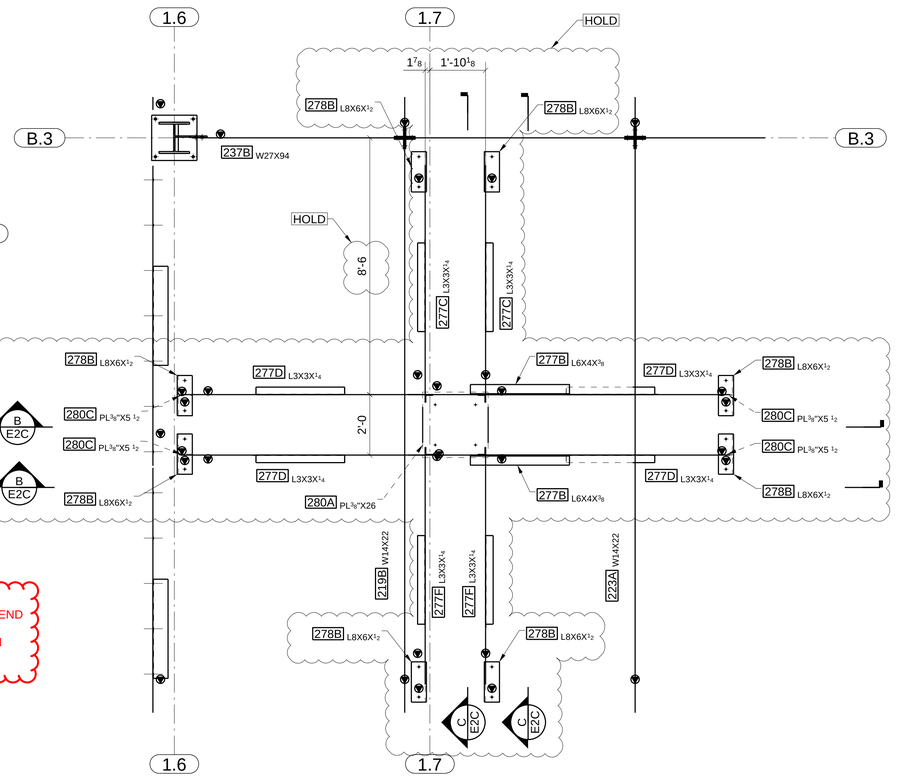


HEAD STUDS FIELD WELD DETAIL



DETAIL - 2





DETAIL - 1

T.O.S. EL. +99'-5 1/2 (UNO)

NOTES:

#1, ▼ DENOTES FOR LOCATION OF SHIPPING MARK.
▶ INDICATES MOMENT CONNECTION.
SLOPE: x : 12 ▶ INDICATES DIRECTION OF SLOPE DOWNWARD
INDICATES VERTICAL BRACE

#2, ALL ELEVATION SHOWN INDICATE MAIN PART TOP LEVEL.

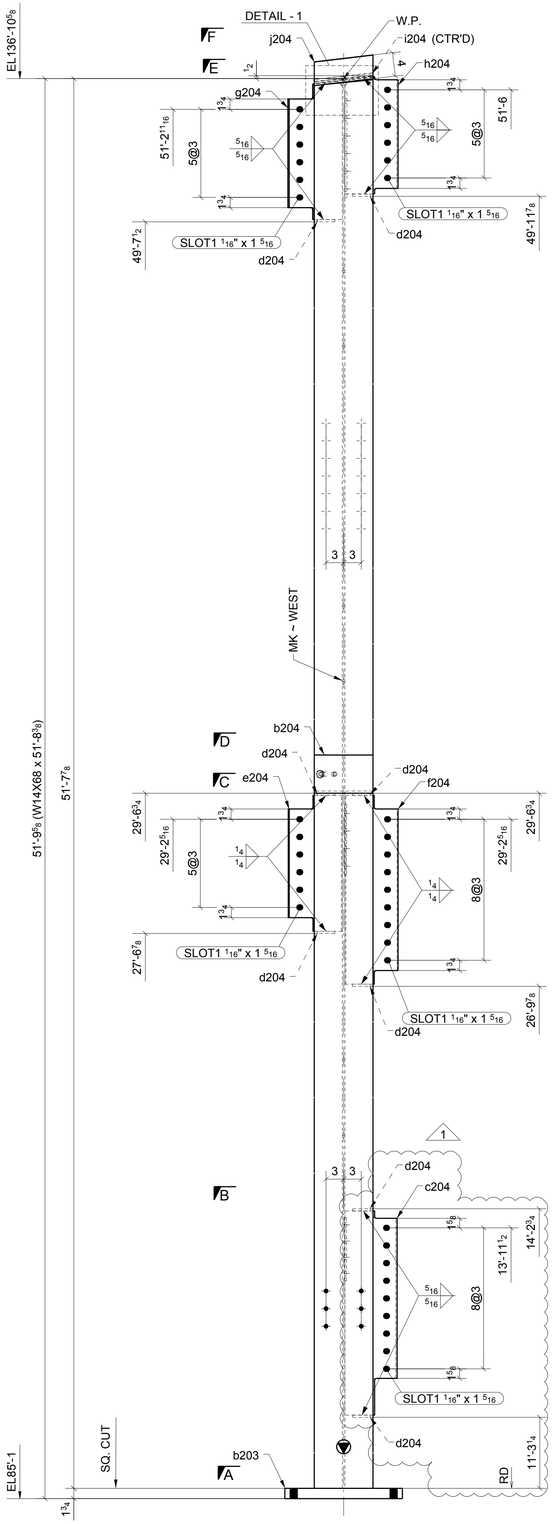
#3, U.N.O.(⟶) LOCATE THE WEB OF BEAM AT SOUTH OR WEST SIDE OF SHEAR TAB.

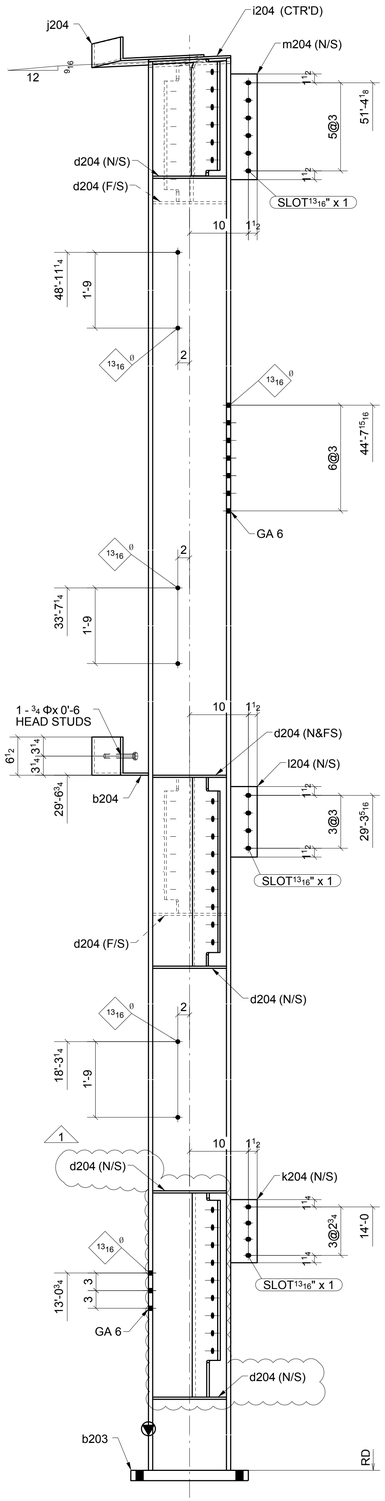
#4, (x) BELOW THE PART MARK ON FRAMING PLANS INDICATES THE NUMBER OF HEADED STUD PER BENT PLATE TO BE FIELD WELD.

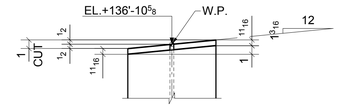
1	Atlas A16013-CAT#4	07/12/16
0	FOR FABRICATION	07/01/16
A	FOR APPROVAL	05/30/16

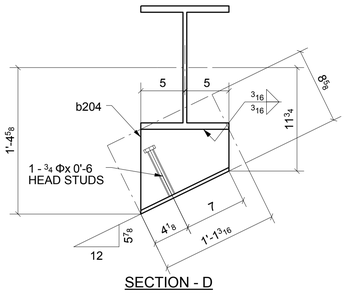
ATLAS IRON WORKS
ST. LOUIS, MO.

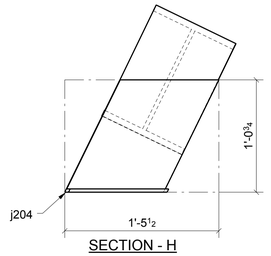
Project:	WEBSTER UNIVERSITY INTERDISCIPLINARY SCIENCE BUILDING
Customer:	PARIC CORPORATION
Owner:	WEBSTER UNIVERSITY
Location:	WEBSTER GUOVES,MO 63119
Dwn: TLI	Date: 05/23/2016 Ckd: LJ Date: 07/12/2016
Job No.	A16013 BAT: DWG#: E2A

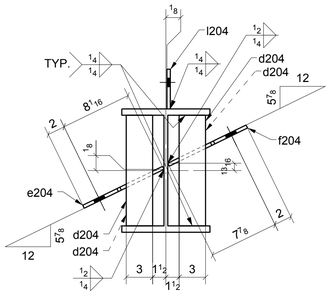


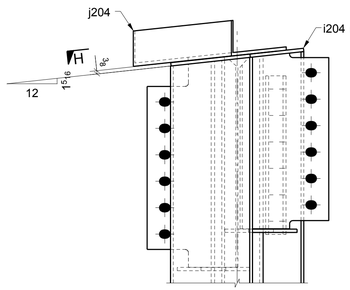


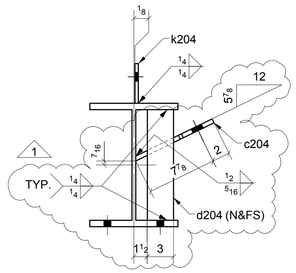


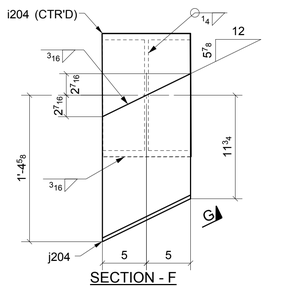


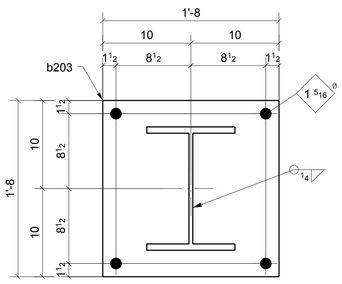


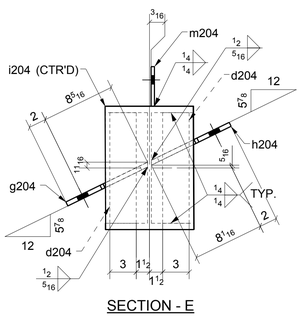












SHOP BOLT IN SLOTTED HOLE
NEED "HAND TIGHTEN"

ONE - COLUMN ~ 204A

LOCATION: ONE @ 2/4-A.5 (REF: E2A,E2B)

MATERIAL LIST

QTY	MARK	DESCRIPTION	LENGTH	MATERIAL	NOTES
1	204A	W14X68	51'-8 3/8"	A992	
1	b203	PL1 3/4"X20"	1'-8"	A36	
1	b204	BPL3/8""15"1/8	1'-1 3/16"	A36	
1	c204	PL1/2"X9 7/8"	2'-10 3/4"	A36	
8	d204	PL3/8"X3"	1'-0 9/16"	A36	
1	e204	PL3/8"X10 1/16"	1'-11 1/8"	A36	
1	f204	PL3/8"X9 7/8"	2'-8 1/8"	A36	
1	g204	PL1/2"X10 5/16"	1'-11 9/16"	A36	
1	h204	PL1/2"X10 1/16"	1'-7 15/16"	A36	
1	i204	PL3/8"X10 1/16"	1'-2"	A36	
1	j204	BPL3/8""16"3/4	1'-5 1/2"	A36	
1	k204	PL3/8"X4 1/2"	0'-10 3/4"	A36	
1	l204	PL3/8"X4 1/2"	1'-0"	A36	
1	m204	PL3/8"X4 1/2"	1'-6"		
1		3/4" STUD	0'-6"		

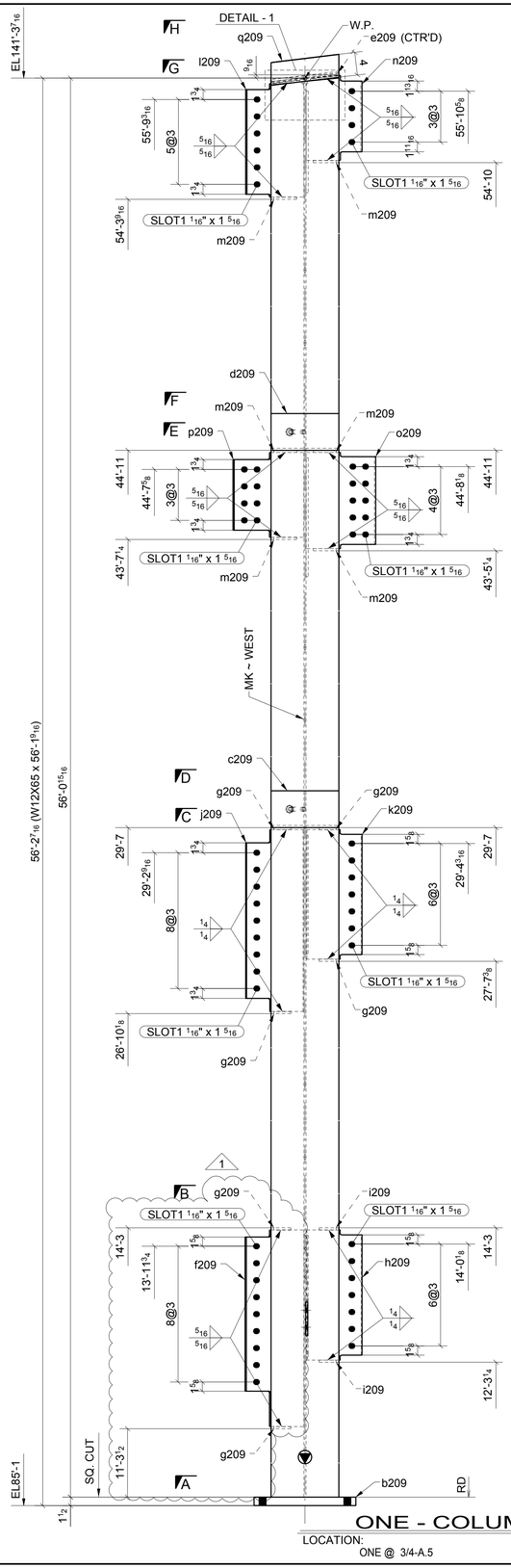
1	Atlas A16013-CAT#4	07/12/16
0	FOR FABRICATION	07/01/16
A	FOR APPROVAL	05/30/16

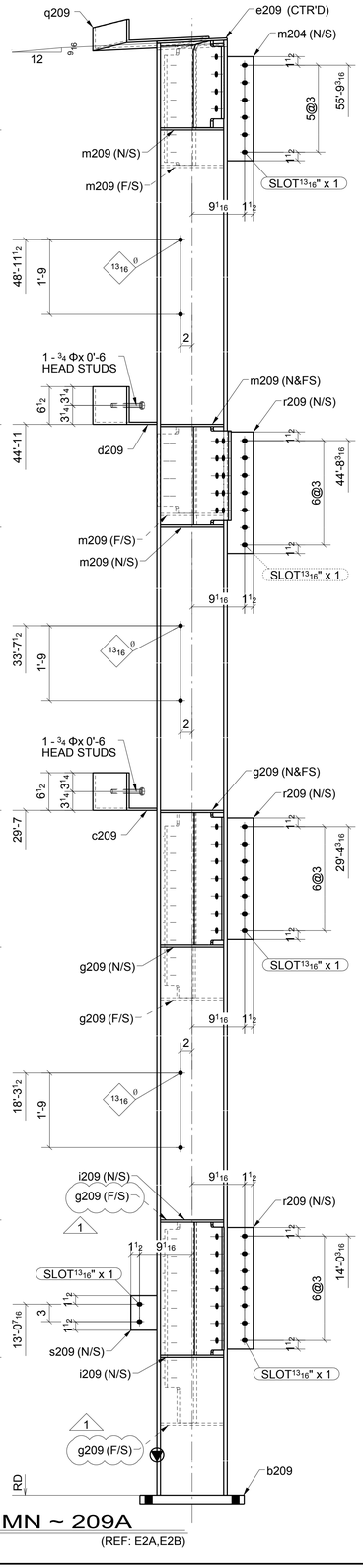
Sequence: 2 Ref. E-Plans: –
Material: A992 U.N.O. Edge Dist.: 1 1/2" U.N.O.
Holes: 13/16"DIA. Bolts: NOTED
Cleaning: NONE
Paint: NO
DFT: COLOR:

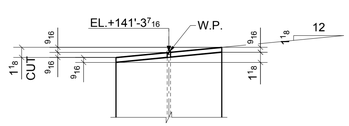
Romac By: Checked By:
Beamline By: Checked By:

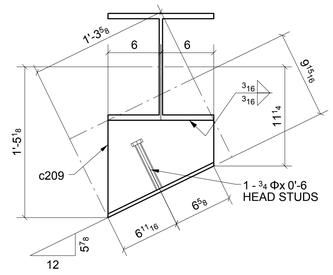
ATLAS IRON WORKS
ST. LOUIS, MO.

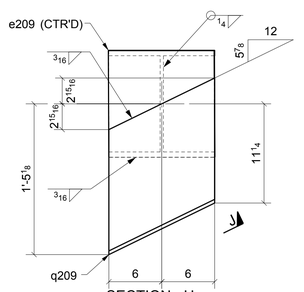
Project: WEBSTER UNIVERSITY INTERDISCIPLINARY SCIENCE BUILDING
Customer: PARIC CORPORATION
Owner: WEBSTER UNIVERSITY
Location: WEBSTER GUOVES,MO 63119
Dwn: TLI Date: 05/27/2016 Ckd: LJ Date: 07/12/2016
Job No. A16013 BAT: DWG#: 204

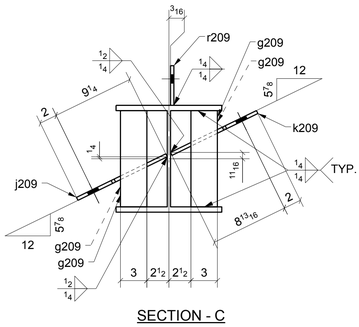


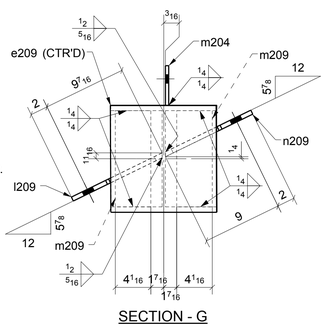


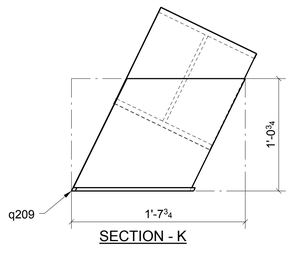


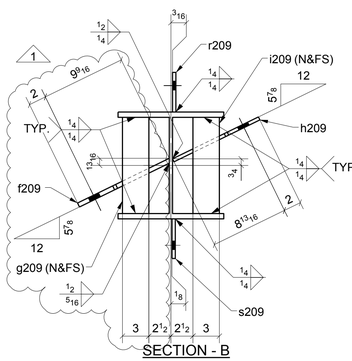


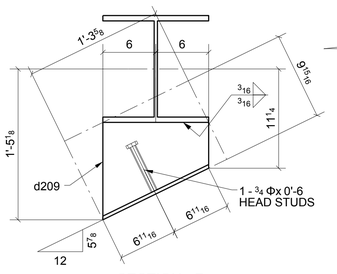


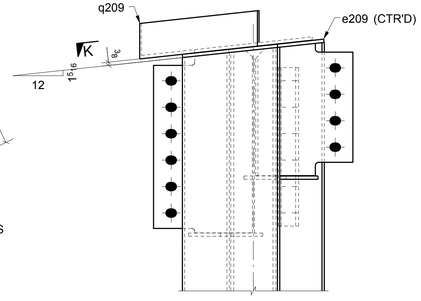


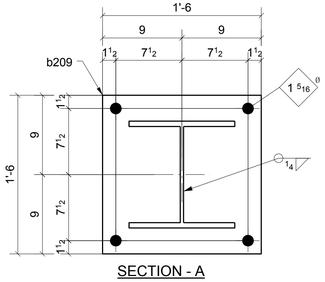


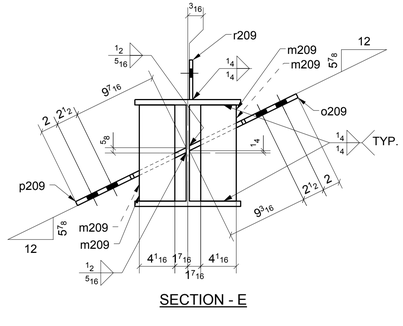












ONE - COLUMN ~ 209A

LOCATION: ONE @ 3/4-A.5 (REF: E2A,E2B)

SHOP BOLT IN SLOTTED HOLE
NEED "HAND TIGHTEN"

MATERIAL LIST

QTY	MARK	DESCRIPTION	LENGTH	MATERIAL	NOTES
1	209A	W12X65	56'-1 9/16"	A992	
1	b209	PL1 1/2"X18"	1'-6"	A36	
1	c209	BPL3/8""16"7/16	1'-3 5/8"	A36	
1	d209	BPL3/8""16"7/16	1'-3 5/8"	A36	
1	e209	PL3/8"X12 1/16"	1'-0 1/8"	A36	
1	f209	PL1/2"X11 9/16"	2'-10 3/4"	A36	
6	g209	PL3/8"X3"	0'-10 15/16	A36	
1	h209	PL3/8"X10 13/16"	1'-11"	A36	
2	i209	PL3/8"X3"	0'-10 15/16	A36	
1	j209	PL3/8"X11 1/4"	2'-8 1/8"	A36	
1	k209	PL3/8"X10 13/16"	1'-10 7/8"	A36	
1	l209	PL1/2"X11 7/16"	1'-8 11/16"	A36	
1	m204	PL3/8"X4 1/2"	1'-6"		
6	m209	PL3/8"X4 1/16"	0'-10 15/16		
1	n209	PL1/2"X11"	1'-3"	A36	
1	o209	PL1/2"X13 11/16"	1'-5"	A36	
1	p209	PL1/2"X13 15/16"	1'-3"	A36	
1	q209	BPL3/8""16"3/4	1'-7 3/4"	A36	
3	r209	PL3/8"X4 1/2"	1'-9"	A36	
1	s209	PL3/8"X4 1/2"	0'-6"	A36	
2		3/4" STUD	0'-6"		

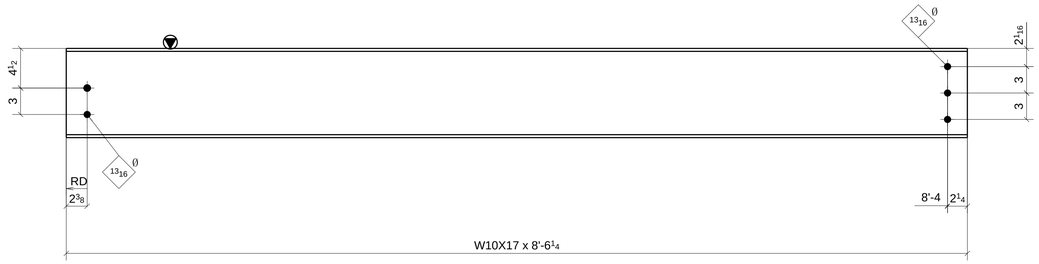
1	Atlas A16013-CAT#4	07/12/16
0	FOR FABRICATION	07/01/16
A	FOR APPROVAL	05/30/16

Sequence: 2 Ref. E-Plans: –
Material: A992 U.N.O. Edge Dist.: 1 1/2" U.N.O.
Holes: 13/16"DIA. Bolts: NOTED
Cleaning: NONE
Paint: NO
DFT: COLOR:

Romac By: Checked By:
Beamline By: Checked By:

ATLAS IRON WORKS
ST. LOUIS, MO.

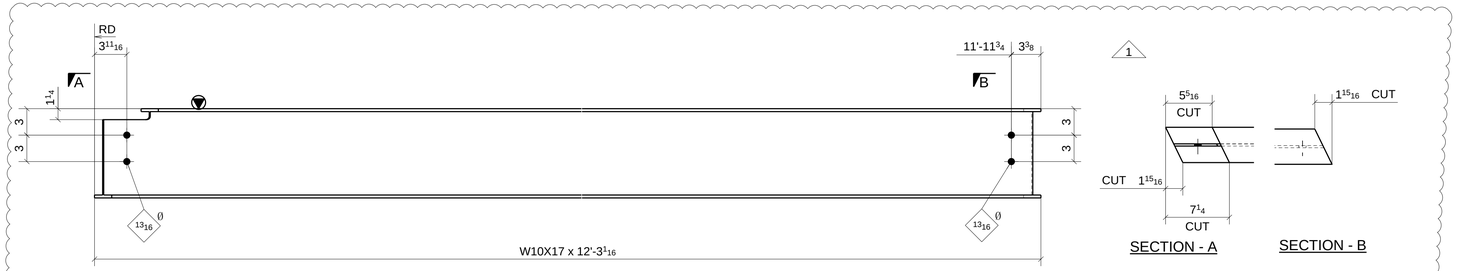
Project: WEBSTER UNIVERSITY INTERDISCIPLINARY SCIENCE BUILDING
Customer: PARIC CORPORATION
Owner: WEBSTER UNIVERSITY
Location: WEBSTER GUOVES,MO 63119
Dwn: TLI Date: 05/27/2016 Ckd: LJ Date: 07/12/2016
Job No. A16013 BAT: DWG#: 209



3 - BEAMS ~ 217A

LOCATION: (REF: E2A)

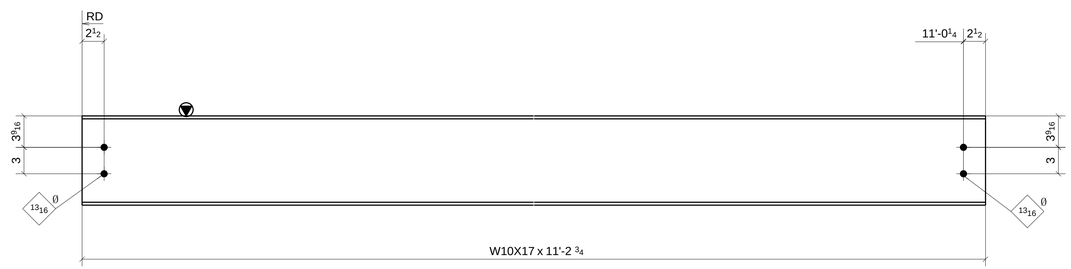
ONE @ 1.7-1.9/C-C.3
ONE @ 1.7-1.9/C-C.3
ONE @ 1.7/C-C.3



3 - BEAMS ~ 217B

LOCATION: (REF: E2A)

ONE @ 2-2.6/4-A.5
ONE @ 2-2.6/4-A.5
ONE @ 2.6-3/4-A.5



ONE - BEAM ~ 217C

LOCATION: (REF: E2A)

ONE @ 3/4-A.5

SHOP BOLT IN SLOTTED HOLE
NEED "HAND TIGHTEN"

MATERIAL LIST

QTY	MARK	DESCRIPTION	LENGTH	MATERIAL	NOTES
3	217A	W10X17	8'-6 1/4"	A992	
3	217B	W10X17	12'-3 1/16"	A992	
1	217C	W10X17	11'-2 3/4"	A992	

Romac By: Checked By:

Beamline By: Checked By:

1	Atlas A16013-CAT#4	07/12/16
0	FOR FABRICATION	07/01/16
A	FOR APPROVAL	05/30/16

Sequence: 2 Ref. E-Plans: –

Material: A992 U.N.O. Edge Dist.: 1 1/2" U.N.O.

Holes: 13/16"DIA. Bolts: NOTED

Cleaning: NONE

Paint: NO

DFT: COLOR:

ATLAS IRON WORKS
ST. LOUIS, MO.

Project: WEBSTER UNIVERSITY INTERDISCIPLINARY SCIENCE BUILDING

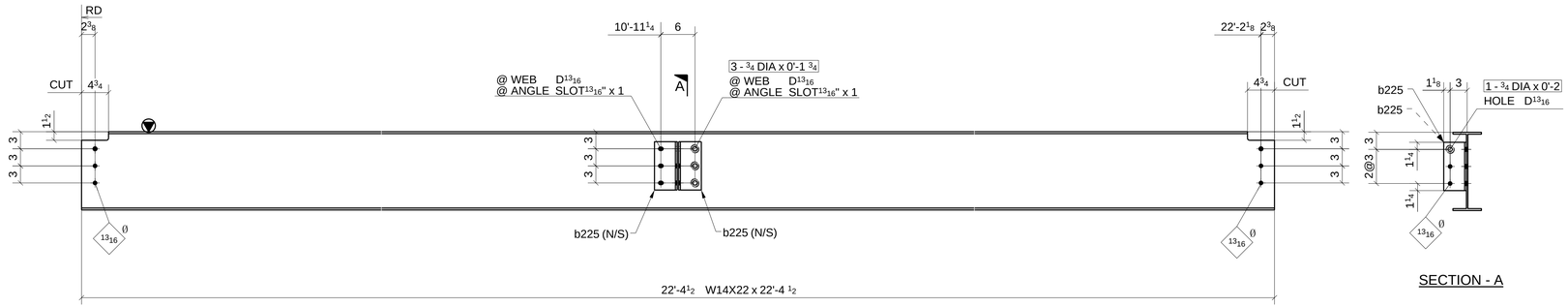
Customer: PARIC CORPORATION

Owner: WEBSTER UNIVERSITY

Location: WEBSTER GUOVES,MO 63119

Dwn: ZZ Date: 05/27/2016 Ckd: LJ Date: 07/12/2016

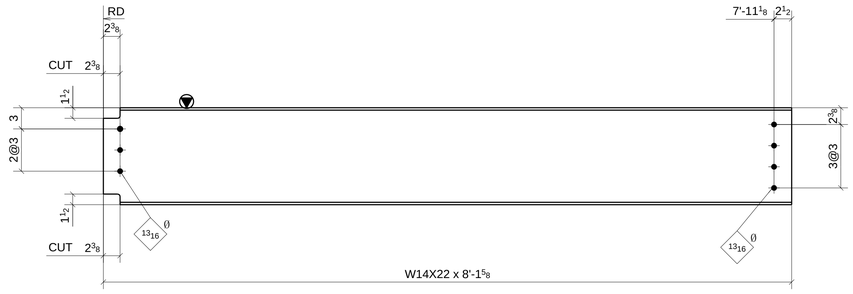
Job No. A16013 BAT: DWG#: 217



SECTION - A

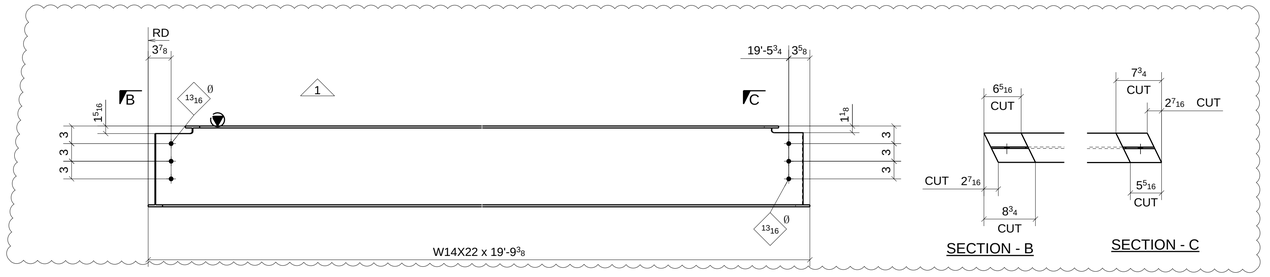
ONE - BEAM ~ 225A

LOCATION: (REF: E2A)
ONE @ 1.9/A.5-B.3



ONE - BEAM ~ 225B

LOCATION: (REF: E2A)
ONE @ 1.9-2/A.5-B.3



SECTION - B

SECTION - C

4 - BEAMS ~ 225C

LOCATION: (REF: E2A)
ONE @ 2-2.6/4-B.3
ONE @ 2-2.6/4-B.3
ONE @ 2.6-3/4-B.3
ONE @ 2.6/4-B.3

SHOP BOLT IN SLOTTED HOLE
NEED "HAND TIGHTEN"

MATERIAL LIST

QTY	MARK	DESCRIPTION	LENGTH	MATERIAL	NOTES
1	225A	W14X22	22'-4 1/2"	A992	
2	b225	L4X4X5/16	0'-8 1/2"	A36	
3		3/4" DIA. W/N&W	0'-1 3/4"	A325N TC	
1		3/4" DIA. W/N&W	0'-2"	A325N TC	
1	225B	W14X22	8'-1 5/8"	A992	
4	225C	W14X22	19'-9 3/8"	A992	

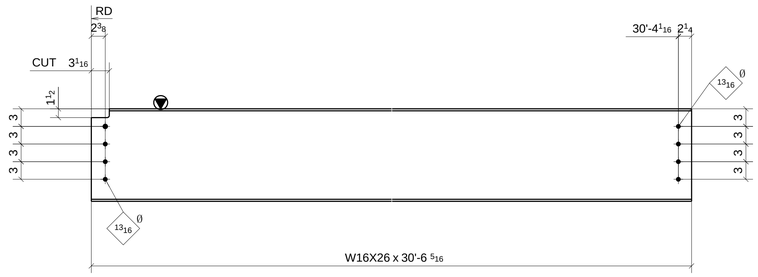
1	Atlas A16013-CAT#4	07/12/16
0	FOR FABRICATION	07/01/16
A	FOR APPROVAL	05/30/16

Sequence: 2 Ref. E-Plans: –
Material: A992 U.N.O. Edge Dist.: 1 1/2" U.N.O.
Holes: 13/16"DIA. Bolts: NOTED
Cleaning: NONE
Paint: NO
DFT: COLOR:

Romac By: Checked By:
Beamline By: Checked By:

ATLAS IRON WORKS
ST. LOUIS, MO.

Project: WEBSTER UNIVERSITY INTERDISCIPLINARY SCIENCE BUILDING
Customer: PARIC CORPORATION
Owner: WEBSTER UNIVERSITY
Location: WEBSTER GUOVES,MO 63119
Dwn: ZZ Date: 05/27/2016 Ckd: LJ Date: 07/12/2016
Job No. A16013 BAT: DWG#: 225



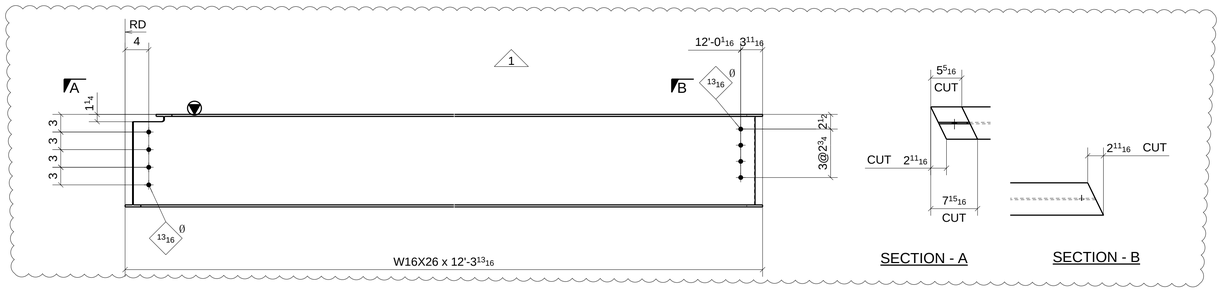
2 - BEAMS ~ 228B

LOCATION: (REF: E2A)

ONE @ 2-2.6/B.3-C.3

ONE @ 2-2.6/B.3-C.3

CAMBER=3/4"



ONE - BEAM ~ 228C

LOCATION: (REF: E2A)

ONE @ 2.6/4-A.5

SHOP BOLT IN SLOTTED HOLE
NEED "HAND TIGHTEN"

MATERIAL LIST

QTY	MARK	DESCRIPTION	LENGTH	MATERIAL	NOTES
2	228B	W16X26	30'-6 5/16"	A992	C=3/4"
1	228C	W16X26	12'-3 13/16"	A992	

Romac By: Checked By:

Beamline By: Checked By:

1	Atlas A16013-CAT#4	07/12/16
0	FOR FABRICATION	07/01/16
A	FOR APPROVAL	05/30/16

Sequence: 2 Ref. E-Plans: --

Material: A992 U.N.O. Edge Dist.: 1 1/2" U.N.O.

Holes: 13/16"DIA. Bolts: NOTED

Cleaning: NONE

Paint: NO

DFT: COLOR:

ATLAS IRON WORKS
ST. LOUIS, MO.

Project: WEBSTER UNIVERSITY INTERDISCIPLINARY SCIENCE BUILDING

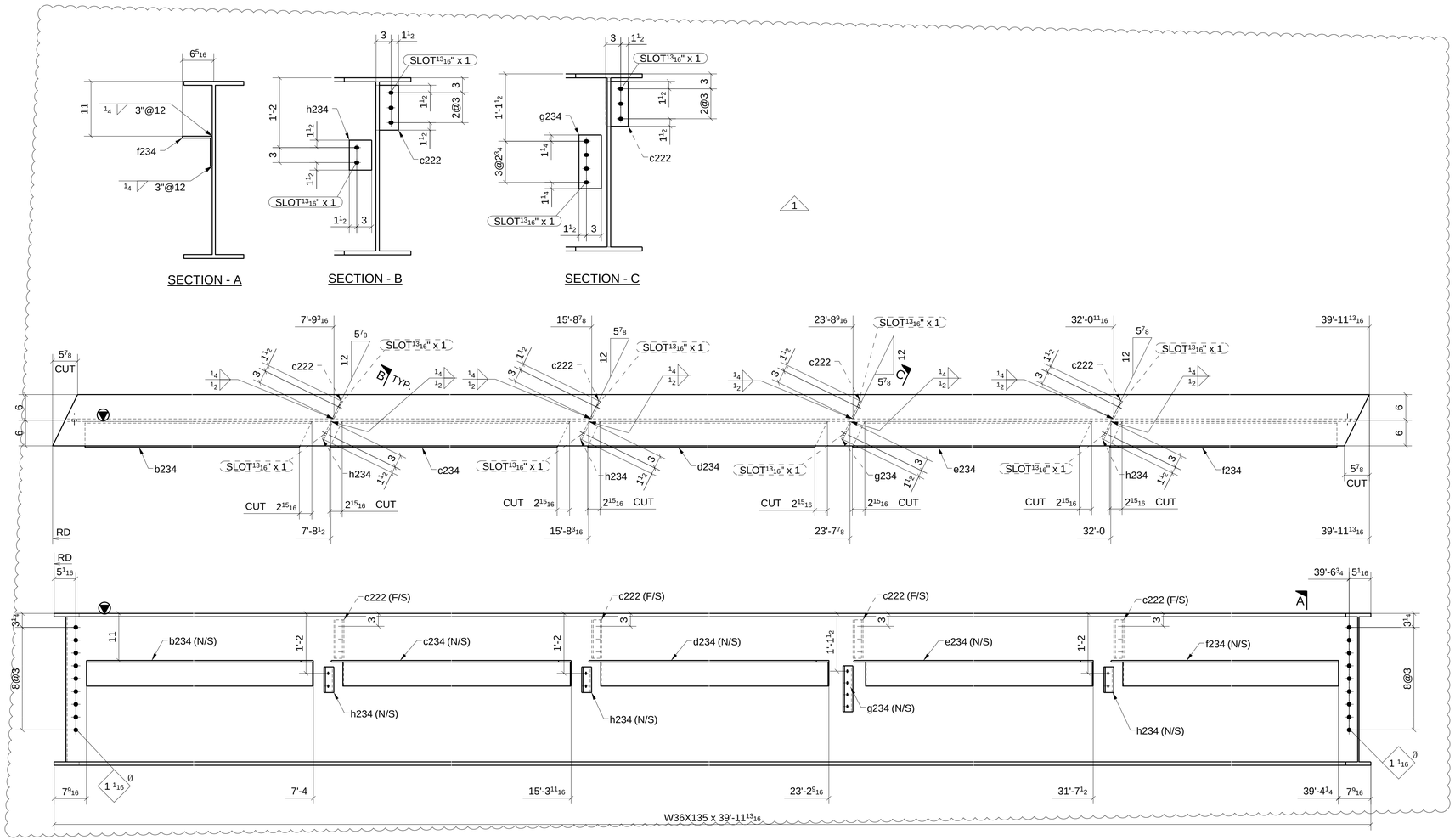
Customer: PARIC CORPORATION

Owner: WEBSTER UNIVERSITY

Location: WEBSTER GUOVES,MO 63119

Dwn: ZZ Date: 05/27/2016 Ckd: LJ Date: 07/12/2016

Job No. A16013 BAT: DWG#: 228



ONE - BEAM ~ 234A

LOCATION: (REF: E2A)

ONE @ 2-3/4-A.5

SHOP BOLT IN SLOTTED HOLE
NEED "HAND TIGHTEN"

MATERIAL LIST

QTY	MARK	DESCRIPTION	LENGTH	MATERIAL	NOTES
1	234A	W36X135	39'-11 13/16"	A992	
1	b234	L6X6X3/8	6'-8 7/16"	A36	
4	c222	PL3/8"X4 1/2"	0'-9"	A36	
1	c234	L6X6X3/8	7'-7 1/2"	A36	
1	d234	L6X6X3/8	7'-6 11/16"	A36	
1	e234	L6X6X3/8	7'-11 1/8"	A36	
1	f234	L6X6X3/8	7'-4 9/16"	A36	
1	g234	PL3/8"X4 1/2"	0'-10 3/4"	A36	
3	h234	PL3/8"X4 1/2"	0'-6"	A36	

Romac By: Checked By:

Beamline By: Checked By:

1	Atlas A16013-CAT#4	07/12/16
0	FOR FABRICATION	07/01/16
A	FOR APPROVAL	05/30/16

Sequence: 2 Ref. E-Plans: –

Material: A992 U.N.O. Edge Dist.: 1 1/2" U.N.O.

Holes: 13/16"DIA. Bolts: NOTED

Cleaning: NONE

Paint: NO

DFT: COLOR:

ATLAS IRON WORKS
ST. LOUIS, MO.

Project: WEBSTER UNIVERSITY INTERDISCIPLINARY SCIENCE BUILDING

Customer: PARIC CORPORATION

Owner: WEBSTER UNIVERSITY

Location: WEBSTER GUOVES,MO 63119

Dwn: ZZ Date: 05/27/2016 Ckd: LJ Date: 07/12/2016

Job No. A16013 BAT: DWG#: 234

CANNONDESIGN

SUBMITTAL IDENTIFICATION SHEET

To be completed by Contractor/CM

WEBSTER UNIVERSITY ISB
PROJECT NAME

8274 BIG BEND BLVD
ADDRESS

NUMBER

WEBSTER UNIVERSITY
OWNER

CANNON DESIGN
ARCHITECT / ENGINEER

Joe Voypick
SUBMITTED BY

051200-025
CONTRACTOR / CM SUBMITTAL NO.

CANNON DESIGN SUBMITTAL NO.

DRAWING / DETAIL REFERENCE

051200
SPECIFICATION SECTION / PARAGRAPH

Atlas Iron
MANUFACTURER / SUPPLIER

ITEM / PRODUCT ID

REQUIRED DATE

PRIORITY

◯ CRITICAL

ITEM BEING SUBMITTED (check only one)

- ◉ Shop Drawings
- ◯ Samples (_____ copies)
- ◯ LEED Submittal
- ◯ Certification / Qualifications
- ◯ Record Documents
- ◯ Product Data
- ◯ Coordination Drawing
- ◯ Calculations
- ◯ Schedules
- ◯ O&M Manuals
- ◯ Other _____

ITEM BEING SUBMITTED FOR (check only one)

◉ Action ◯ Information Only ◯ Record

REMARKS OR DEVIATIONS

IT IS THE RESPONSIBILITY OF THE FABRICATOR TO COORDINATE THE STEEL CONNECTION DESIGNS WITH THE STEEL SHOP DRAWINGS.

CONTRACTOR / CM CERTIFICATION
(SUBMITTALS NOT CERTIFIED WILL BE RETURNED WITHOUT REVIEW)

PARIC

PARIC CORPORATION
SUBMITTAL STAMP

THIS SHOP DRAWING HAS BEEN REVIEWED BY PARIC CORPORATION

Subcontractor remains responsible for dimensions, quantities, coordination with other trades and compliance with contract documents.

By:
Devin D. Gates

Joe Voypick
REVIEWED BY

7/13/16
DATE

To be completed by Reviewer

05 1200-025
CANNON DESIGN SUBMITTAL NUMBER

7/13/16
RECEIVED DATE

- ◯ A. No Exceptions Taken
  No further review of submittal is required.
- ◯ B. Make Corrections Noted
  Incorporate corrections in work; resubmission is not required.
- ◯ C. Revise and Resubmit
  Revise as noted, and resubmit for review.
- ◯ D. Rejected
  Submittal is not in compliance with Contract Documents; provide new submittal.
- ◯ E. For Record / Information Only
  Submittal was reviewed for Record / Information purposes only.
- ◯ F. Not Required for Review
  Submittal is not required by Contract Documents and has not been reviewed.

Review is for conformance with the design concept of this project and for general compliance with contract documents. Contractor is responsible for quantities, dimensions and compliance with contract documents and for information that pertains to fabrication processes, construction techniques and coordination of this work with all trades which will be affected thereby. This review is null and void if submittal deviates from contract documents and does not indicate or note deviations.

A/E COMMENTS ◯ See attached sheet(s) for additional comments

SHOP DRAWING / SUBMITTAL REVIEW

- ☐ NO EXCEPTION TAKEN
- ☒ EXCEPTIONS NOTED, RESUBMITTAL NOT REQUIRED
- ☐ REJECTED
- ☐ REVIEWED FOR INFORMATION ONLY
- ☐ REVISE AND RESUBMIT AS NOTED

Checking is only for general conformance with the design concept of the project and general compliance with the information given in the Contract Documents. Any action shown is subject to the requirements of the plans and specifications. Contractor is responsible for: Dimensions which shall be confirmed and correlated at the job site, fabrication processes and techniques of the construction, coordination of his work with that of all other trades and the satisfactory performance of his work.

DAVID MASON & ASSOCIATES, INC.

REVIEW BY: JYW DATE: 07/14/2016

REVIEWED BY

DATE

77 Westport Plaza
Suite 250
St. Louis, MO 63146

TRANSMITTAL

No. 15051-0133

Paric Corporation

PROJECT: 15051-Webster University Interdisciplinary Science Building

DATE: 07/13/2016

TO: Cannon Design
1100 Clark Ave
St Louis MO 63102

RE: Seq 2 Steel w/ Revised Beam

ATTN: Kelvin Patel

JOB: 15051

WE ARE SENDING:	SUBMITTED FOR:	ACTION TAKEN:
☑ Shop Drawings	☑ Approval	☐ Approved as Submitted
☐ Letter	☐ Your Use	☐ Approved as Noted
☐ Prints	☐ As Requested	☐ Returned After Loan
☐ Change Order	☐ Review and Comment	☐ Resubmit
☐ Plans		☐ Submit
☐ Samples	**SENT VIA:**	☐ Returned
☐ Specifications	☐ Attached	☐ Returned for Corrections
☐ Other:	☐ Separate Cover Via:	☐ Due Date:

Item	*Package*	*Code*	*Rev.*	*Copies*	*Date*	*Description*	*Status*
Submittal		051200-025	1		07/13/2016	Seq 2 Steel w/ Revised Beam	Submitted

NOTES:

CC:

Signed: _____

Devin Gates