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

051200-017
CONTRACTOR / CM SUBMITTAL NO.

CANNON DESIGN SUBMITTAL NO.

DRAWING / DETAIL REFERENCE

051200
SPECIFICATION SECTION / PARAGRAPH

Atlas Iron Works
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 DESIGN CALCULATIONS WITH 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

6/8/16
DATE

To be completed by Reviewer

05 1200-017
CANNON DESIGN SUBMITTAL NUMBER

6/9/16
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

ADD'L INFO FROM CANNON ON SHEET E3B RE: SLAB EDGE AT CURVE / NOTCH
6/27/16

SHOP DRAWING / SUBMITTAL REVIEW

- [ ] NO EXCEPTION TAKEN
- [x] 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: 06/23/2016

REVIEWED BY

DATE

77 Westport Plaza
Suite 250
St. Louis, MO 63146

TRANSMITTAL

No. 15051-0076

Paric Corporation

PROJECT: 15051-Webster University Interdisciplinary Science Building

DATE: 06/08/2016

TO: Cannon Design
1100 Clark Ave
St Louis MO 63102

RE: Webster Seq #3 Steel for approval

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:

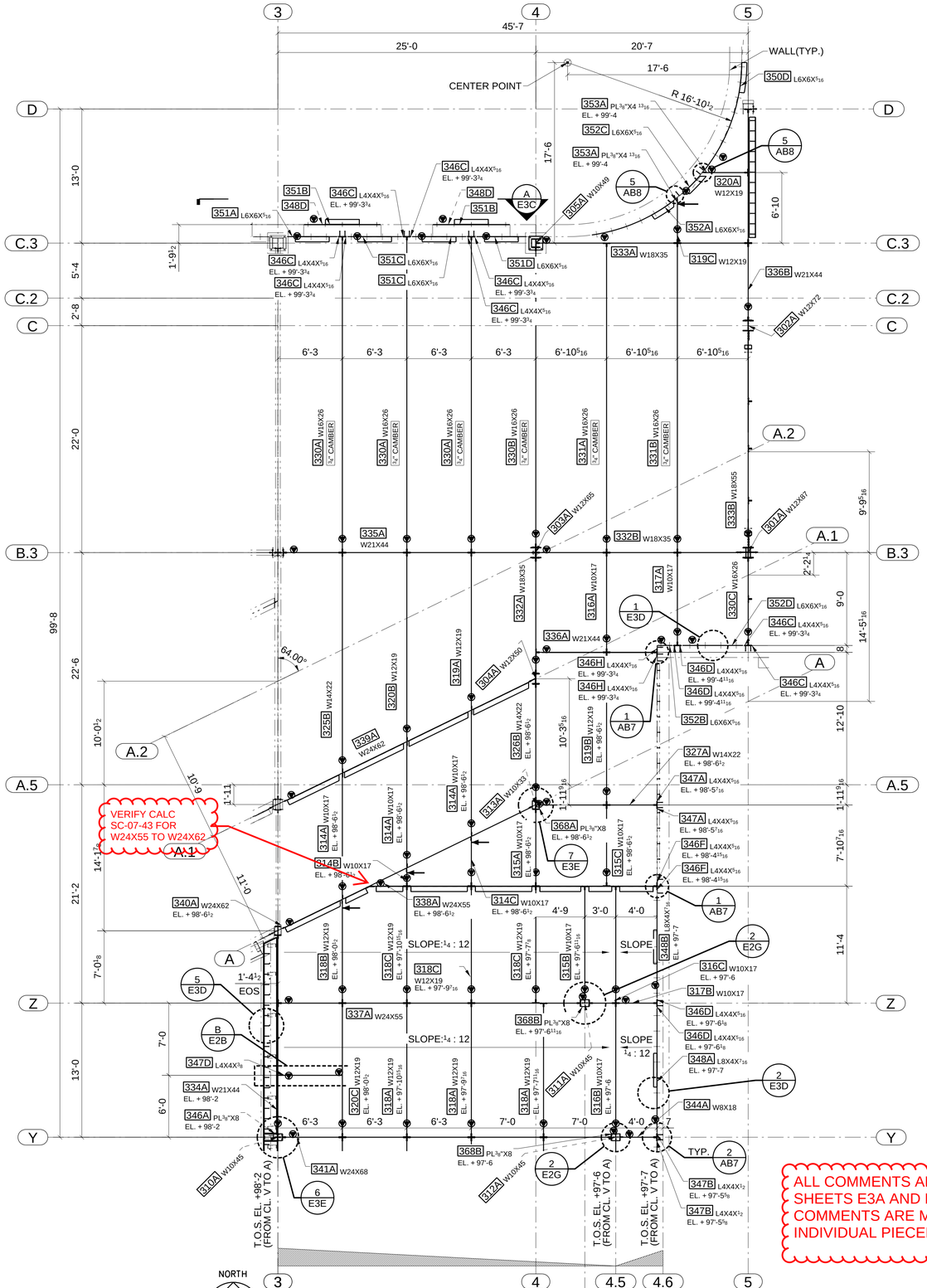
Item	*Package*	*Code*	*Rev.*	*Copies*	*Date*	*Description*	*Status*
Submittal		052100-017	1		06/08/2016	Webster Seq #3 Steel for approval	Submitted

NOTES:

CC: Paric Corporation, Kathy Bathe

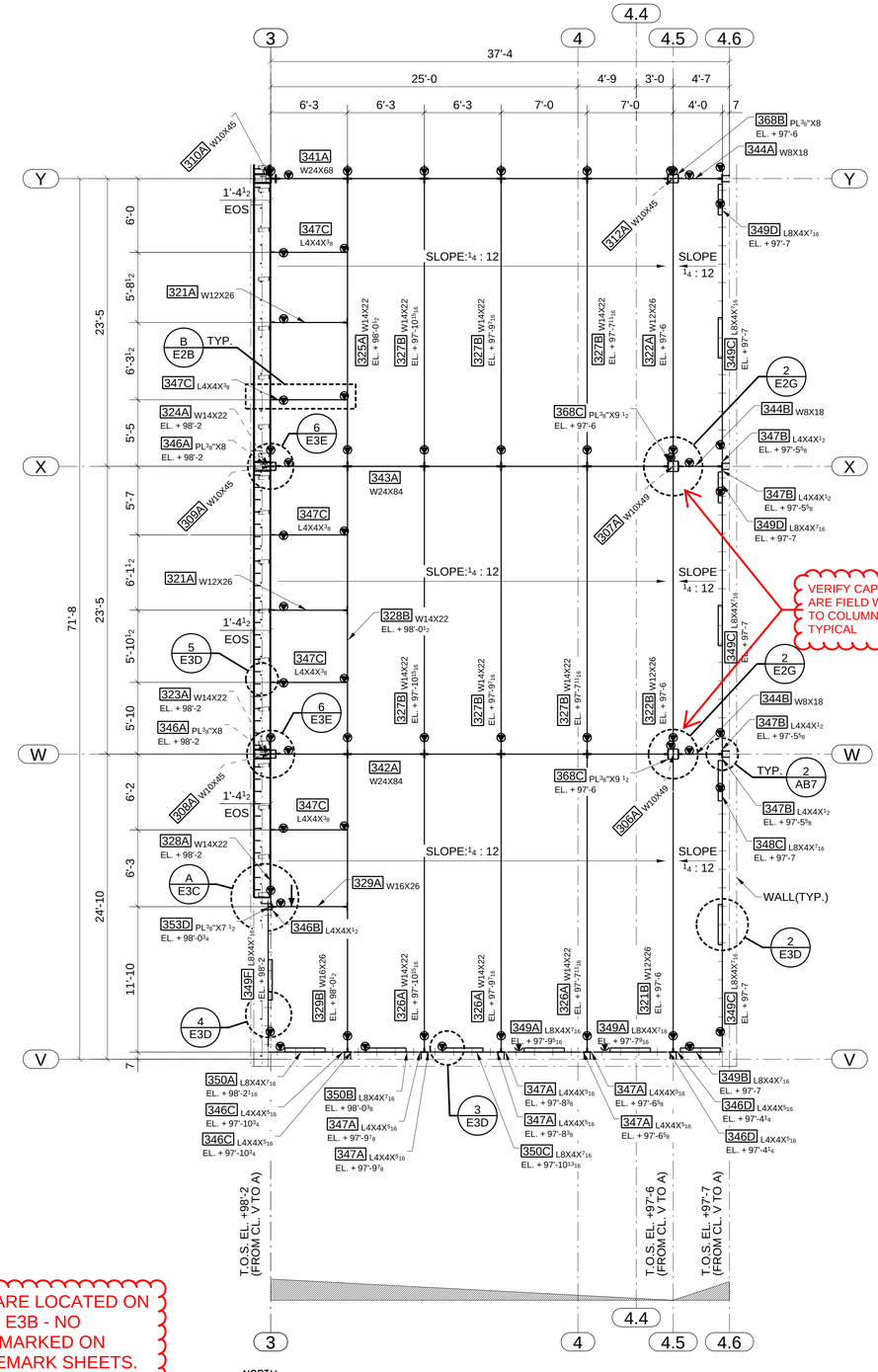
Project Coordinator: Paric Corporation, Kathy Bathe

Signed: _____
Devin Gates

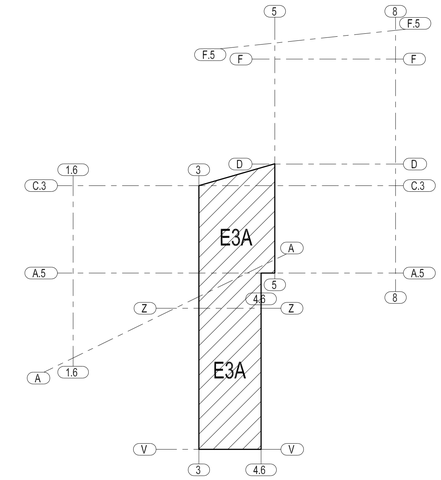


LEVEL 02 FLOOR FRAMING PLAN SEQ3
T.O.S. EL. +99'-5 1/2 (UNO)
REF: S0103

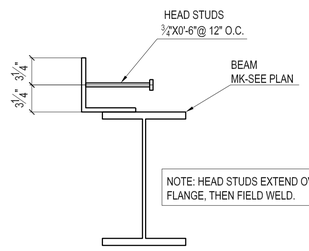
ALL COMMENTS ARE LOCATED ON SHEETS E3A AND E3B - NO COMMENTS ARE MARKED ON INDIVIDUAL PIECEMARK SHEETS.



LEVEL 02 FLOOR FRAMING PLAN SEQ3
T.O.S. EL. +99'-5 1/2 (UNO)
REF: S0102



KEY PLAN AT 99'-5 1/2"



NOTE: HEAD STUDS EXTEND OVER FLANGE, THEN FIELD WELD.

HEAD STUDS FIELD WELD DETAIL

FOR APPROVAL

NOTES:

#1, ▼ DENOTES FOR LOCATION OF SHIPPING MARK.
▶ INDICATES MOMENT CONNECTION.
SLOPE: 4 : 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.

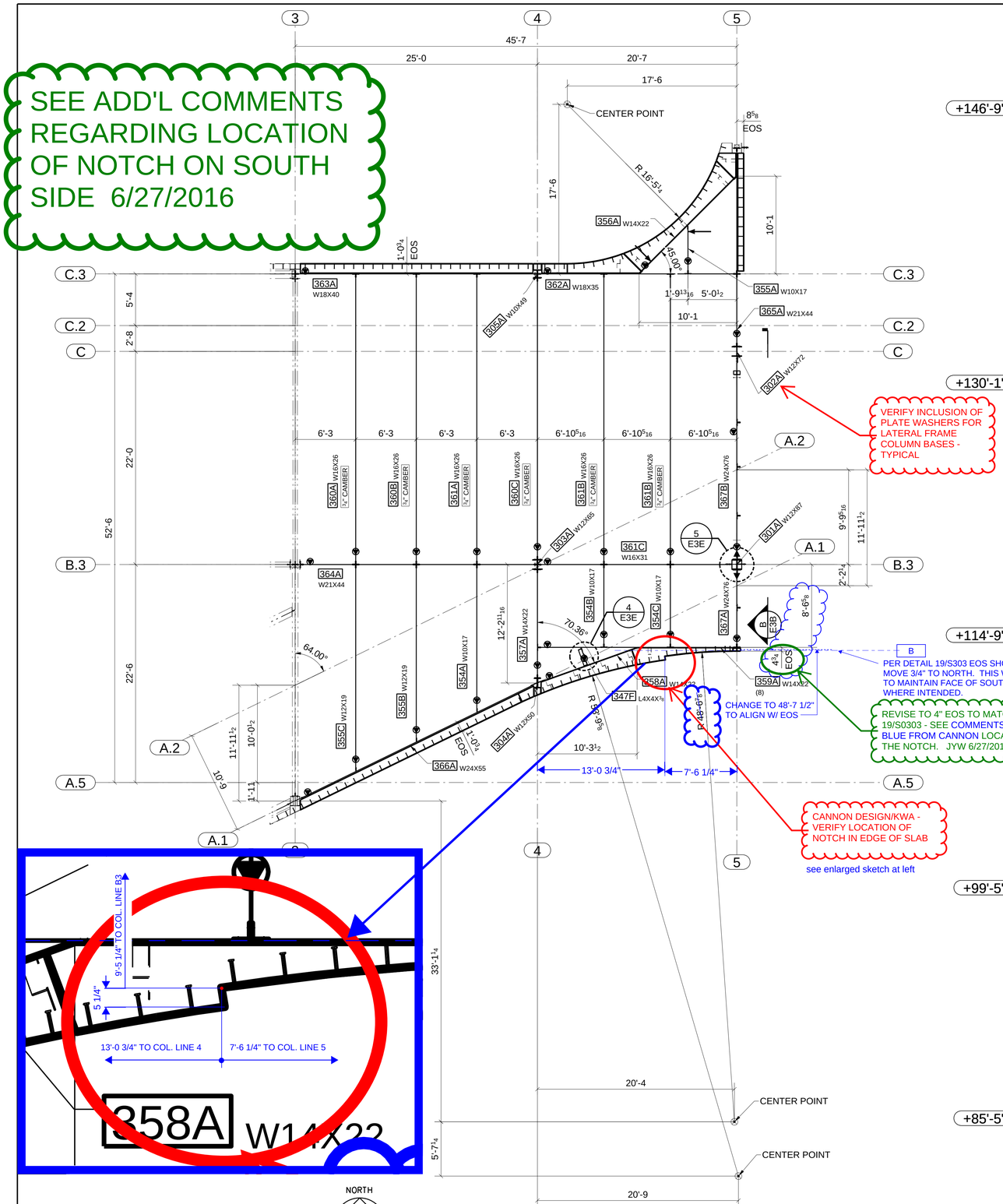
#4, (x) BELOW THE PART MARK ON FRAMING PLANS INDICATES THE NUMBER OF HEADED STUD PER BENT PLATE TO BE FIELD WELD.

ATLAS IRON WORKS
ST. LOUIS, MO.

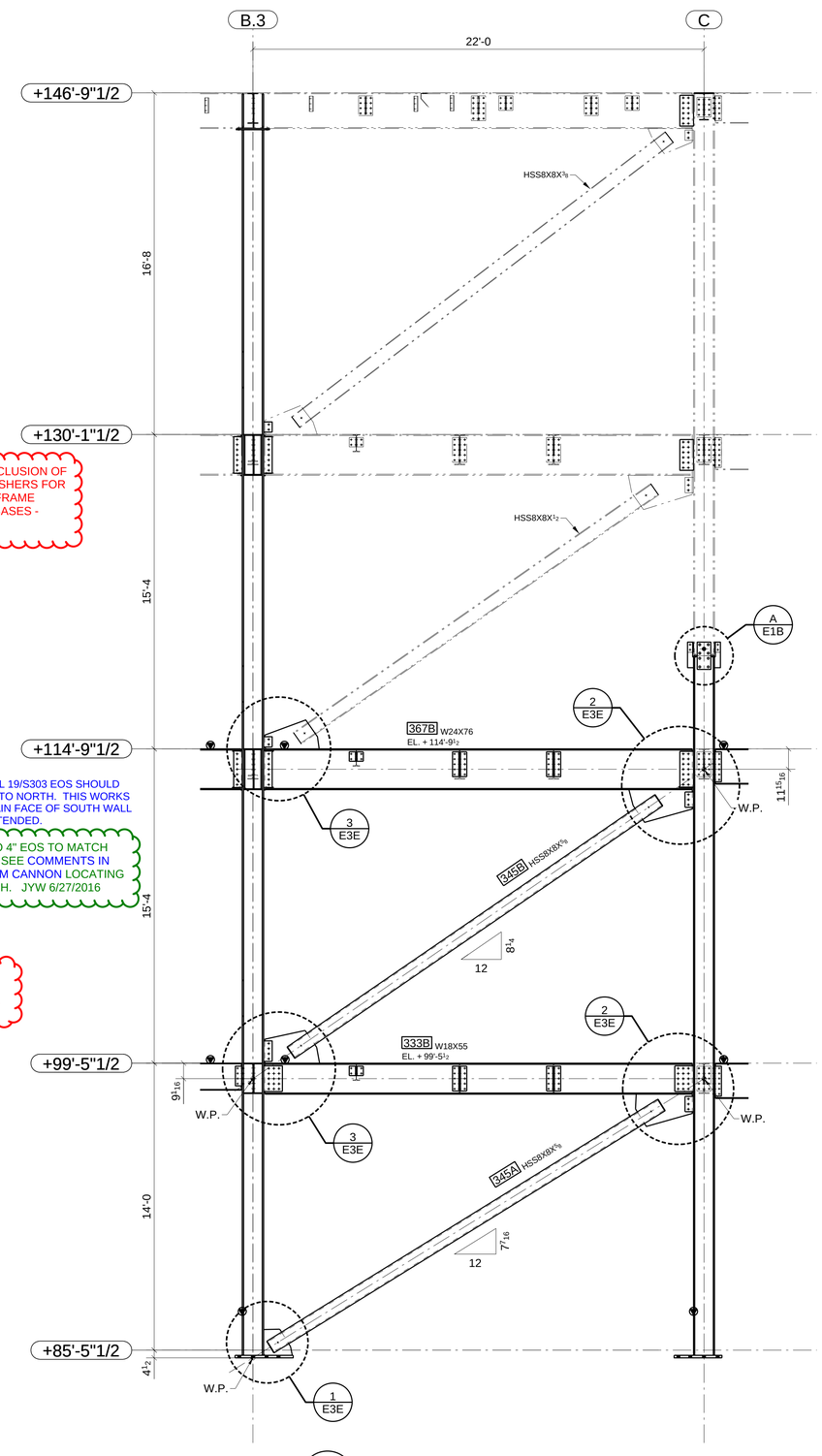
Project:	WEBSTER UNIVERSITY INTERDISCIPLINARY SCIENCE BUILDING
Customer:	PARIC CORPORATION
Owner:	WEBSTER UNIVERSITY
Location:	WEBSTER GUOVES,MO 63119
Dwn: TLI	Date: 05/31/2016 Ckd: LJ Date: 06/07/2016
Job No.	A16013 BAT: DWG#: E3A

A FOR APPROVAL 06/07/16

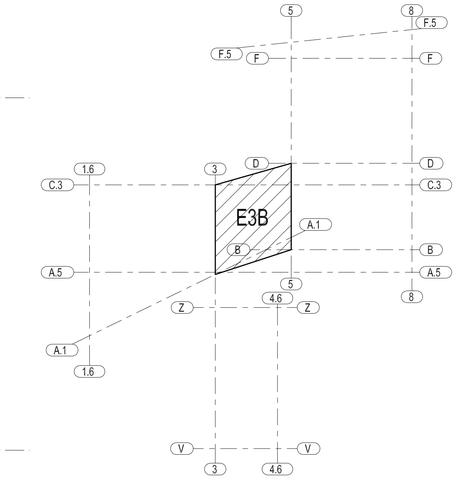
SEE ADD'L COMMENTS REGARDING LOCATION OF NOTCH ON SOUTH SIDE 6/27/2016



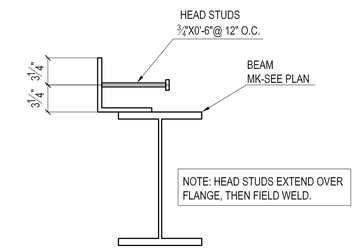
LEVEL 03 FLOOR FRAMING PLAN SEQ3
T.O.S. EL. +114'-9 1/2 (UNO)
REF: S0104



B
E3B
SECTION
ELEVATION ON LINE 5



KEY PLAN AT 114'-9 1/2"



HEAD STUDS FIELD WELD DETAIL

FOR APPROVAL

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.

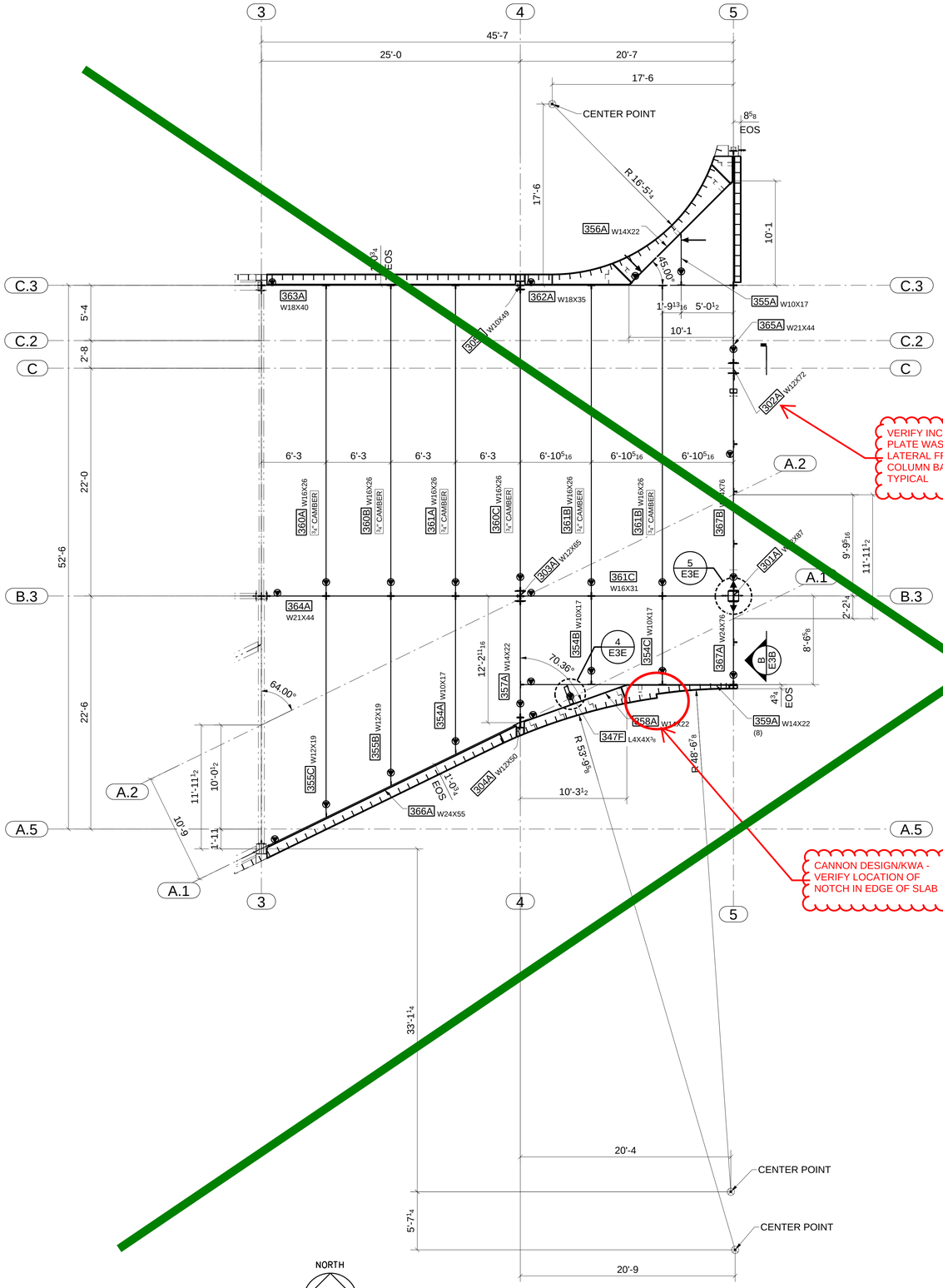
#3, U.N.O.(—►) LOCATE THE WEB OF BEAM AT SOUTH OR WEST SIDE OF SHEAR TAB.

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

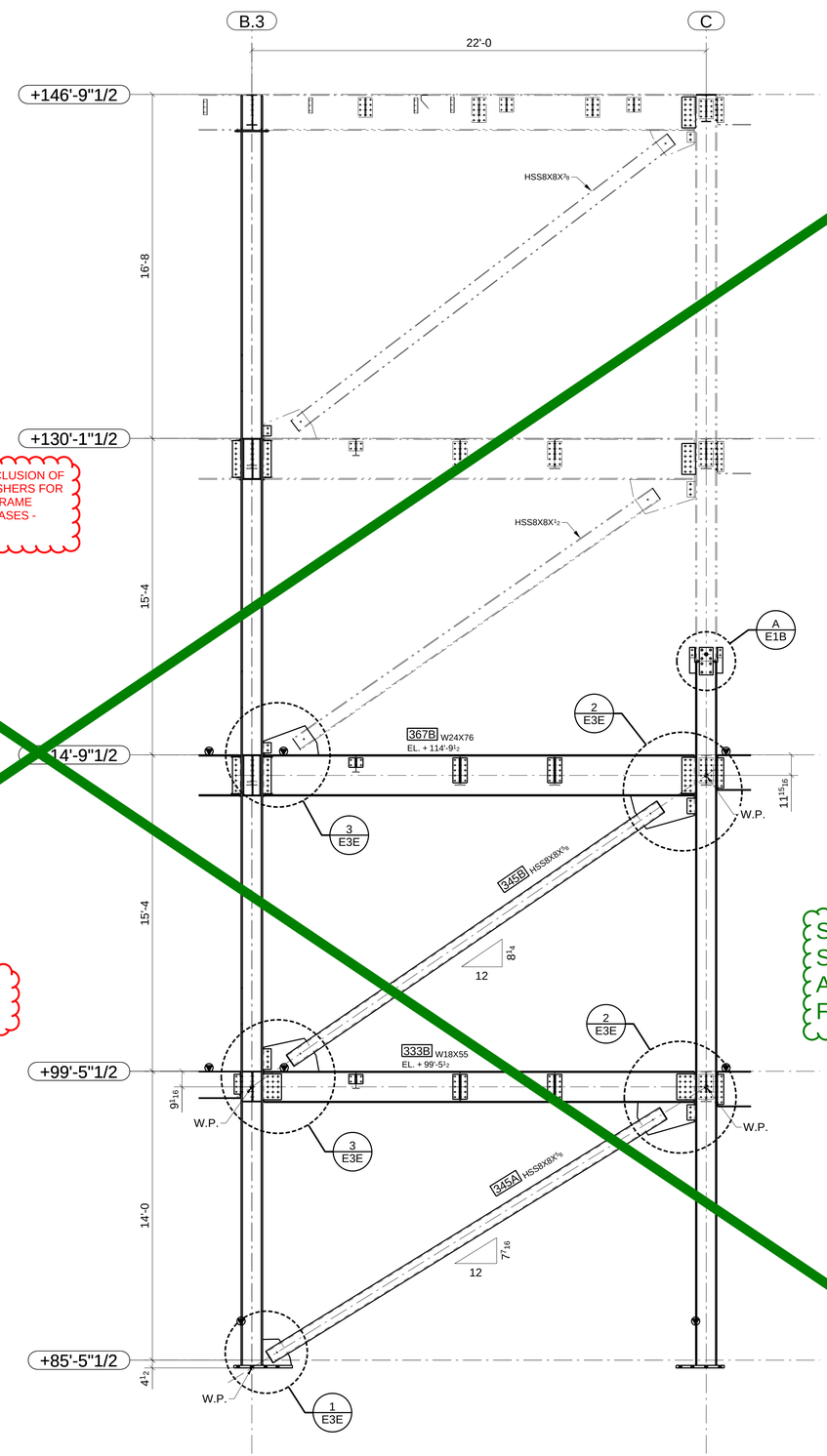
ATLAS IRON WORKS
ST. LOUIS, MO.

Project:	WEBSTER UNIVERSITY INTERDISCIPLINARY SCIENCE BUILDING
Customer:	PARIC CORPORATION
Owner:	WEBSTER UNIVERSITY
Location:	WEBSTER GUOVES,MO 63119
Dwn: TLI	Date: 05/31/2016 Ckd: LJ Date: 06/07/2016
Job No.	A16013 BAT: DWG#: E3B

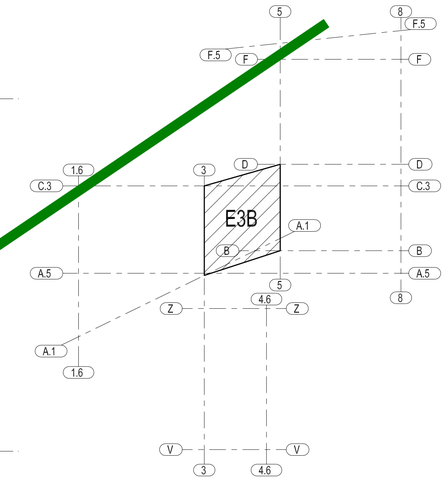
A FOR APPROVAL 06/07/16



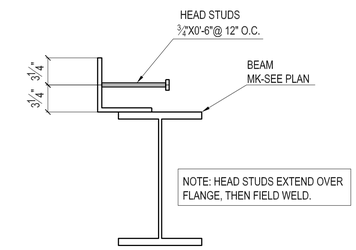
LEVEL 03 FLOOR FRAMING PLAN SEQ3
T.O.S. EL. +114'-9 ½ (UNO)
REF: S0104



B E3B SECTION ELEVATION ON LINE 5



KEY PLAN AT 114'-9 1/2"



HEAD STUDS FIELD WELD DETAIL

SHEET VOID
SEE PREVIOUS SHEET WITH ADDITIONAL COMMENTS FROM CANNON

FOR APPROVAL

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.

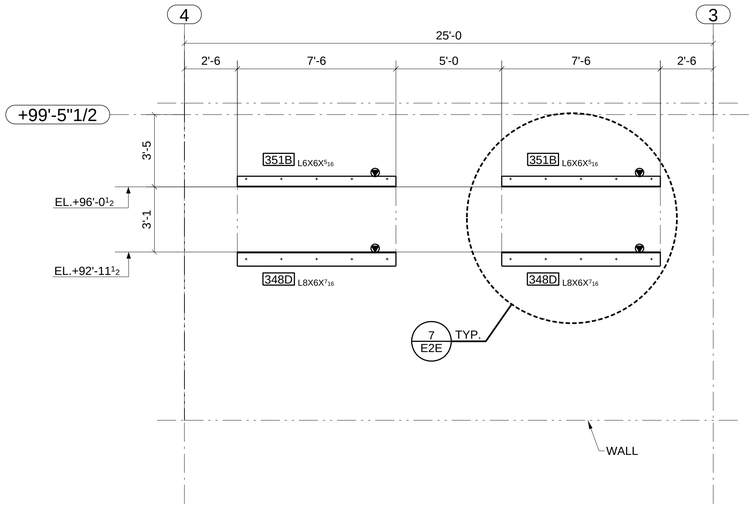
#3, U.N.O.(—►) LOCATE THE WEB OF BEAM AT SOUTH OR WEST SIDE OF SHEAR TAB.

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

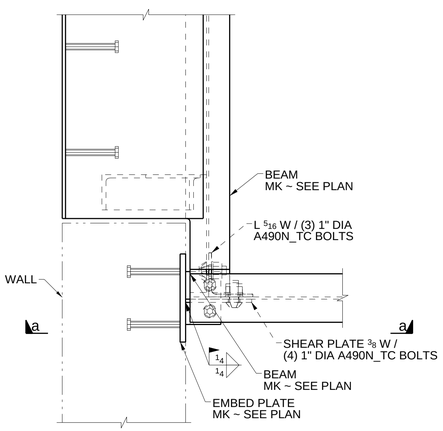
ATLAS IRON WORKS
ST. LOUIS, MO.

Project:	WEBSTER UNIVERSITY INTERDISCIPLINARY SCIENCE BUILDING
Customer:	PARIC CORPORATION
Owner:	WEBSTER UNIVERSITY
Location:	WEBSTER GUOVES,MO 63119
Dwn: TLI	Date: 05/31/2016 Ckd: LJ Date: 06/07/2016
Job No. A16013	BAT: DWG#: E3B

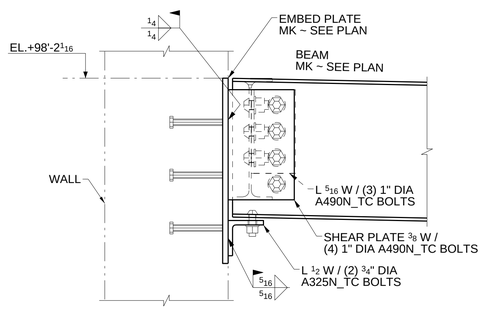
A FOR APPROVAL 06/07/16



A
E3A
SECTION



DETAIL A



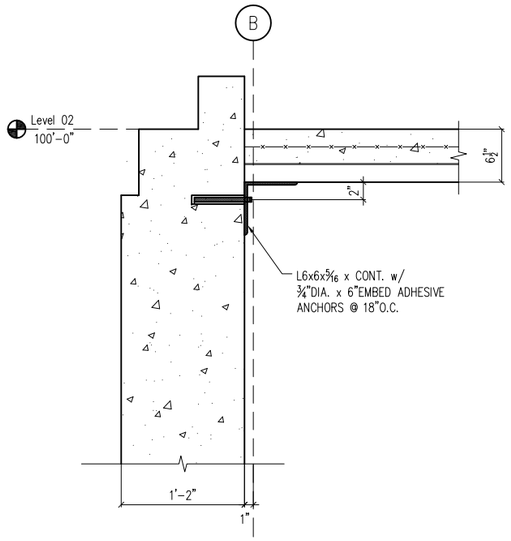
a - a

FOR APPROVAL

ATLAS IRON WORKS
ST. LOUIS, MO.

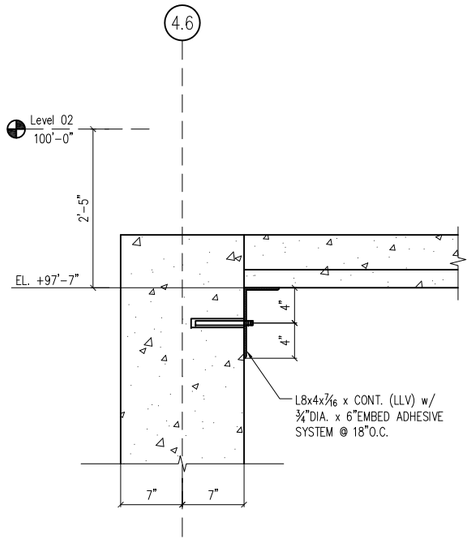
Project:	WEBSTER UNIVERSITY INTERDISCIPLINARY SCIENCE BUILDING
Customer:	PARIC CORPORATION
Owner:	WEBSTER UNIVERSITY
Location:	WEBSTER GUOVES,MO 63119
Dwn: TLI	Date: 05/31/2016 Ckd: LJ Date: 06/06/2016
Job No.	A16013 BAT: DWG#: E3C

A	FOR APPROVAL	06/07/16



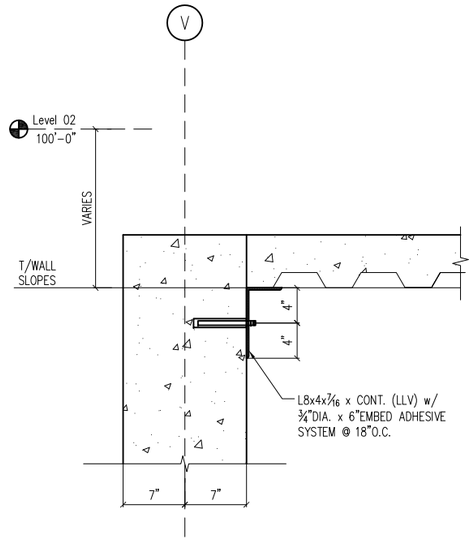
DETAIL – 1

REF: 16/S0303



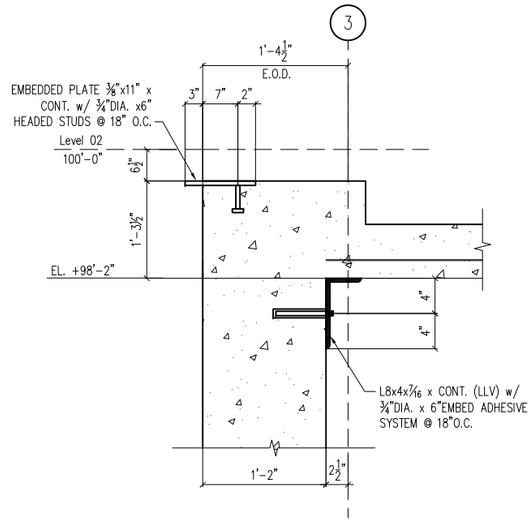
DETAIL – 2

REF: 3/S0301



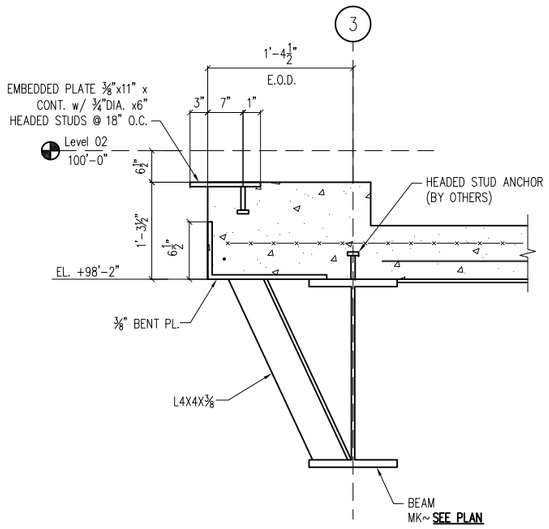
DETAIL – 3

REF: 4/S0301



DETAIL – 4

REF: 8/S0301



DETAIL – 5

REF: 22/S0300

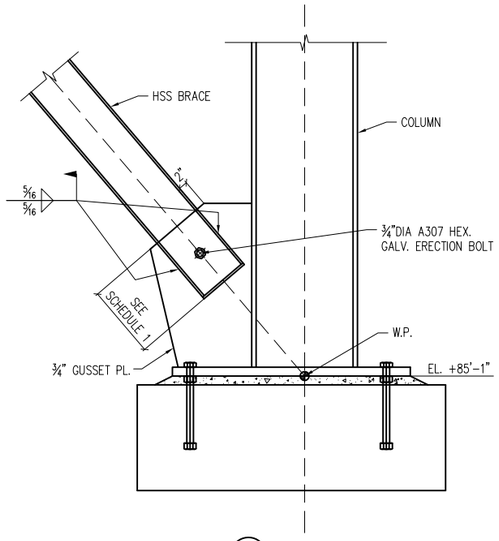
FOR APPROVAL

A	FOR APPROVAL	06-07-16

ATLAS IRON WORKS
ST. LOUIS, MO.

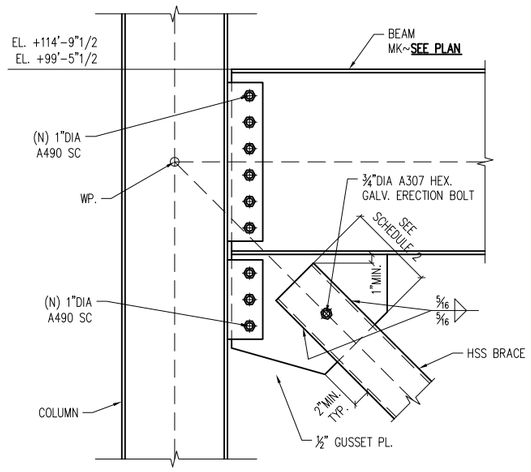
Project: WEBSTER UNIVERSITY INTERDISCIPLINARY SCIENCE BUILDING
Customer: PARIC CORPORATION
Owner: WEBSTER UNIVERSITY
Location: WEBSTER GUOVES,MO 63119
Dwn: ZZ **Date:** 05/30/16 **Ckd:** LJ **Date:** 06/07/16
Job No. A16013 **BAT:** **DWG#:** E3D

SCHEDULE 1	
LOCATION	WELD LENGTH
GRID B.3-C/5	10"



DETAIL - 1

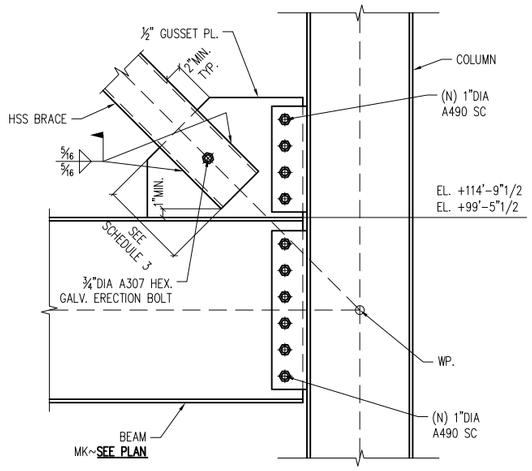
SCHEDULE 2	
LOCATION	WELD LENGTH
GRID B.3-C/5	14"



DETAIL - 2

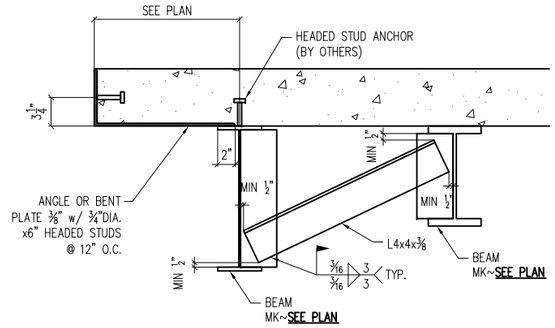
REF: 2/S0304

SCHEDULE 3		
LOCATION		WELD LENGTH
GRID B.3-C/5	EL. +99'-5"1/2	14"
	EL. +114'-9"1/2	10"



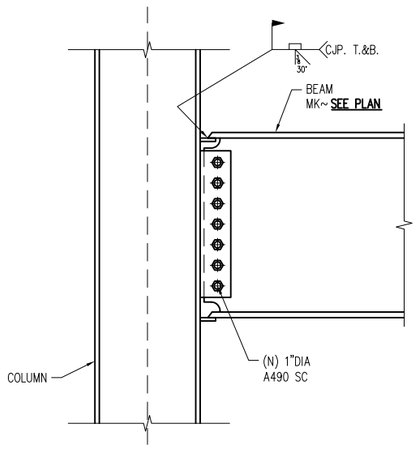
DETAIL - 3

REF: 3/S0304

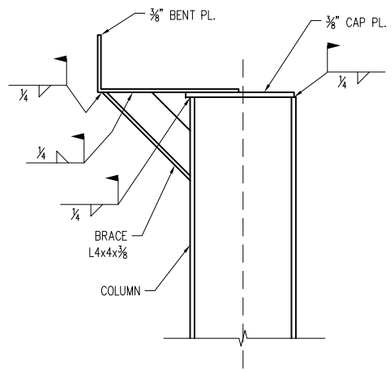


DETAIL - 4

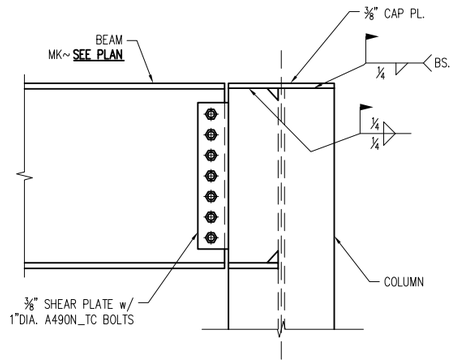
REF: 9/S0003



DETAIL - 5



DETAIL - 6



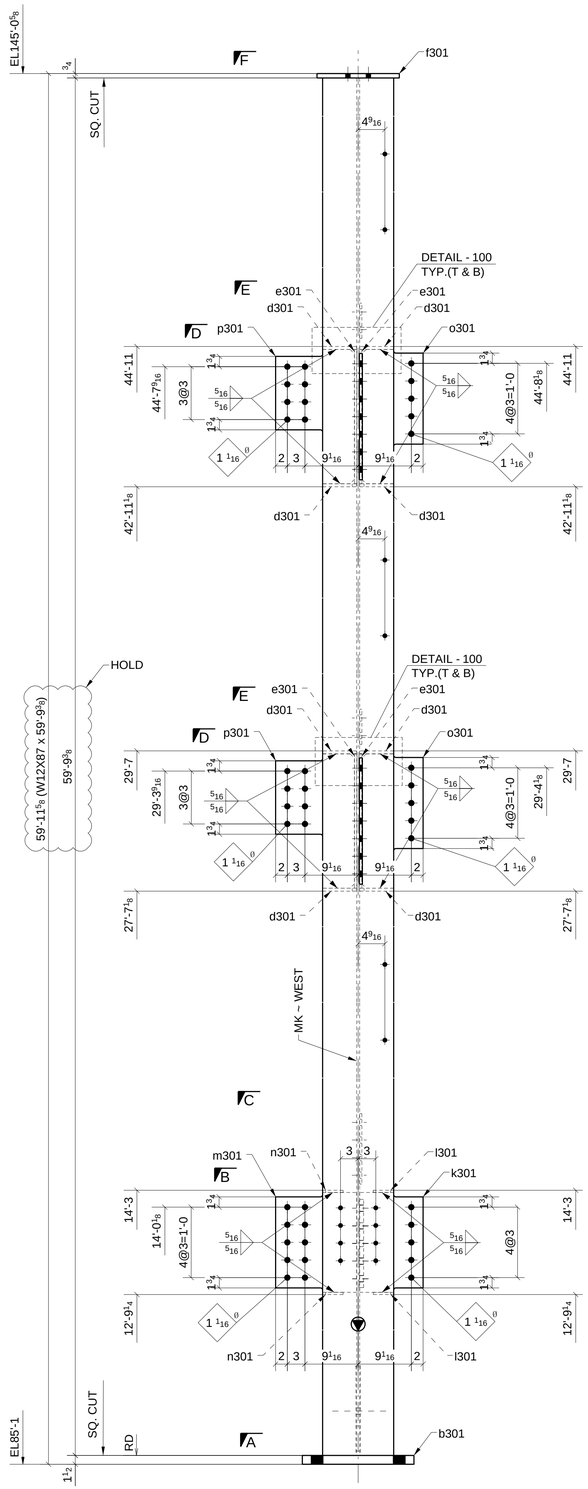
DETAIL - 7

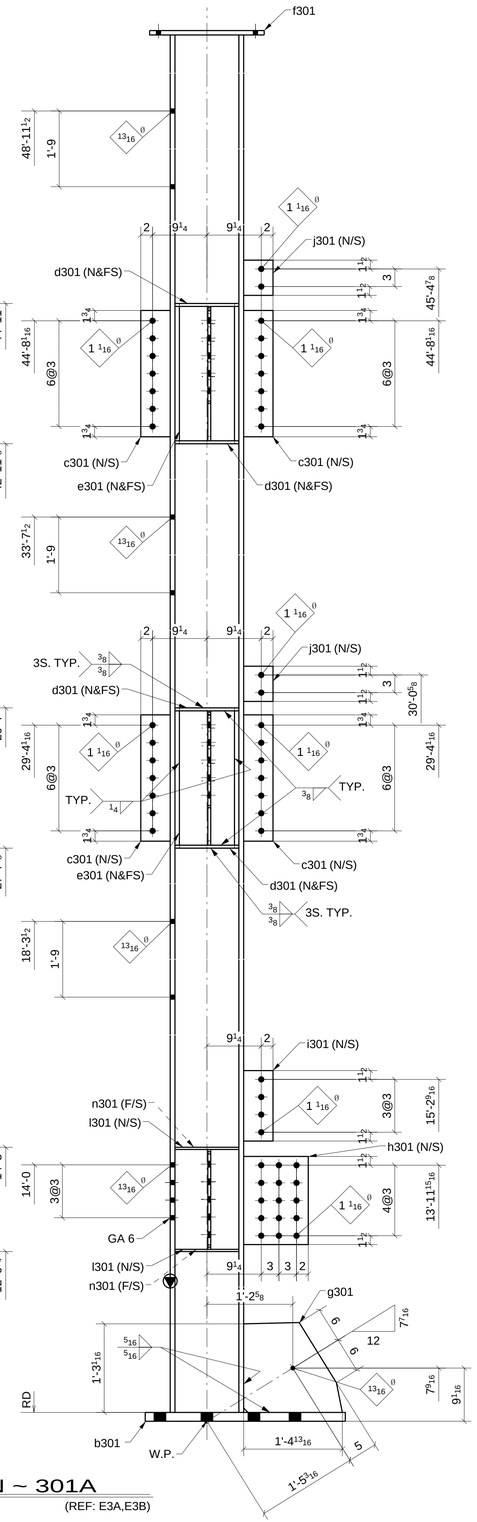
FOR APPROVAL

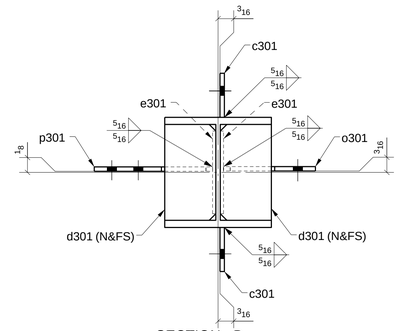
A	FOR APPROVAL	06-07-16

ATLAS IRON WORKS
ST. LOUIS, MO.

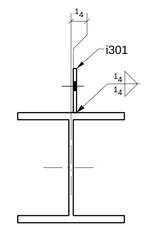
Project: WEBSTER UNIVERSITY INTERDISCIPLINARY SCIENCE BUILDING
Customer: PARIC CORPORATION
Owner: WEBSTER UNIVERSITY
Location: WEBSTER GUOVES,MO 63119
Dwn: ZZ **Date:** 05/30/16 **Ckd:** LJ **Date:** 06/07/16
Job No. A16013 **BAT:** **DWG#:** E3E



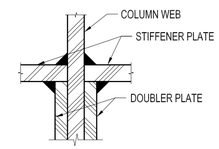




SECTION - D

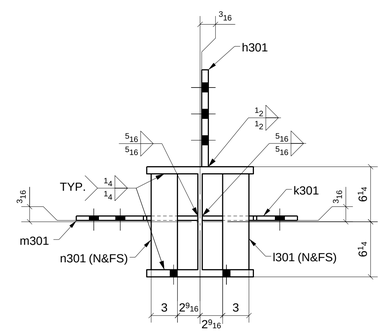


SECTION - C

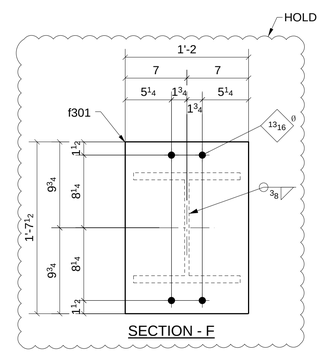


DETAIL "100"

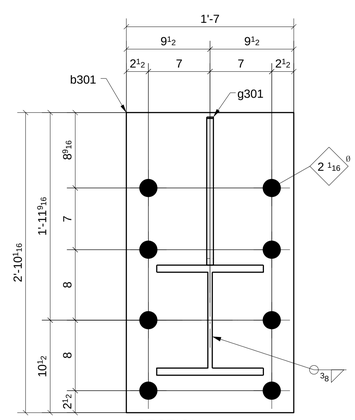
WELD DETAIL



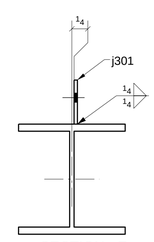
SECTION - B



SECTION - F



SECTION - A



SECTION - E

SHOP BOLT IN SLOTTED HOLE
NEED "HAND TIGHTEN"

FOR APPROVAL

MATERIAL LIST

QTY	MARK	DESCRIPTION	LENGTH	MATERIAL	NOTES
1	301A	W12X87	59'-9 3/8"	A992	
1	b301	PL1 1/2"X19"	2'-10 1/16"	A36	
4	c301	PL1/2"X5"	1'-9 1/2"	A572-GR.50	
8	d301	PL1/2"X5 13/16"	0'-10 7/8"	A572-GR.50	
4	e301	PL3/8"X9 3/8"	1'-10 7/8"	A36	
1	f301	PL3/4"X14"	1'-7 1/2"	A36	
1	g301	PL3/4"X15 5/16"	1'-4 13/16"	A36	
1	h301	PL3/4"X11"	1'-3"	A572-GR.50	
1	i301	PL3/8"X5"	1'-0"	A572-GR.50	
2	j301	PL3/8"X5"	0'-6"	A572-GR.50	
1	k301	PL1/2"X10 13/16"	1'-5"	A36	
2	l301	PL3/8"X3"	0'-10 7/8"	A36	
1	m301	PL1/2"X13 13/16"	1'-5"		
2	n301	PL3/8"X3"	0'-10 7/8"	A36	
2	o301	PL1/2"X10 7/16"	1'-10 7/8"	A36	
2	p301	PL1/2"X13 7/16"	1'-10 7/8"	A572-GR.50	

Romac By: Checked By:

Beamline By: Checked By:

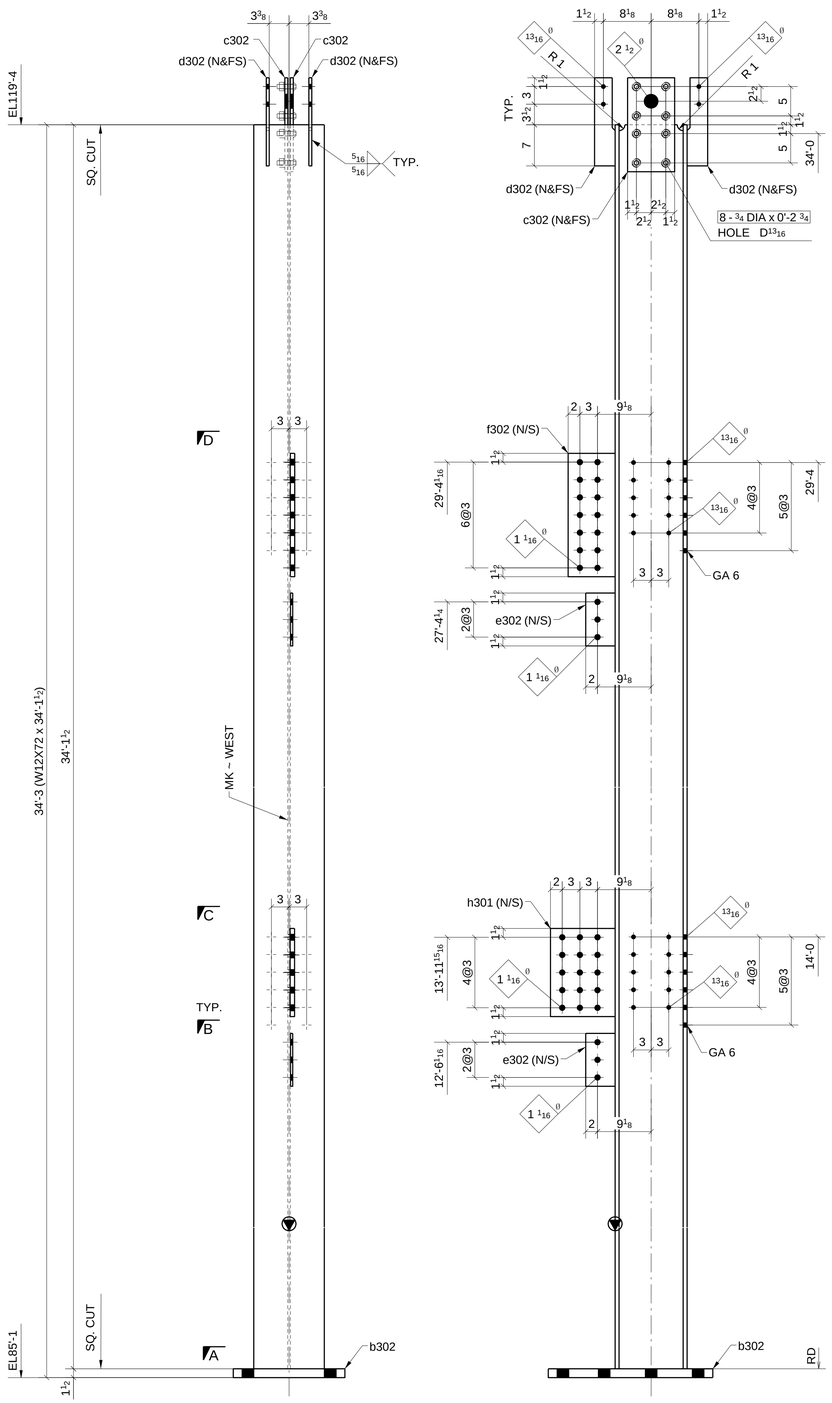
ATLAS IRON WORKS
ST. LOUIS, MO.

A	FOR APPROVAL		06/07/16
Sequence:	3	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:	

Project: WEBSTER UNIVERSITY INTERDISCIPLINARY SCIENCE BUILDING
Customer: PARIC CORPORATION
Owner: WEBSTER UNIVERSITY
Location: WEBSTER GUOVES,MO 63119
Dwn: TLI Date: 06/03/2016 Ckd: LJ Date: 06/07/2016
Job No. A16013 BAT: DWG#: 301

ONE - COLUMN ~ 301A

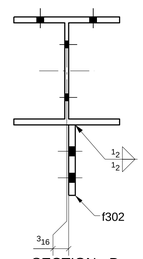
LOCATION: (REF: E3A,E3B)
ONE @ 5/B.3

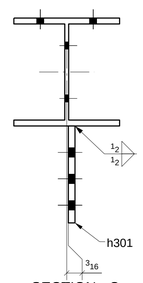


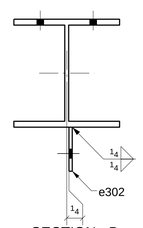
ONE - COLUMN ~ 302A

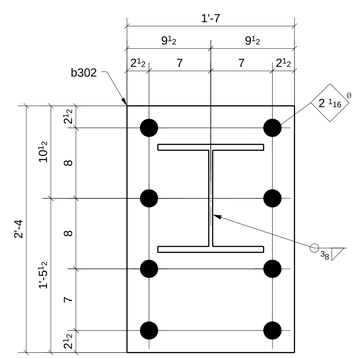
LOCATION: ONE @ 5/C

(REF: E3A,E3B)









SHOP BOLT IN SLOTTED HOLE
NEED "HAND TIGHTEN"

FOR APPROVAL

MATERIAL LIST

QTY	MARK	DESCRIPTION	LENGTH	MATERIAL	NOTES
1	302A	W12X72	34'-1 1/2"	A992	
1	b302	PL1 1/2"X19"	2'-4"	A36	
2	c302	PL1/2"X8"	1'-4"	A36	
4	d302	PL1/2"X3 1/2"	1'-3"	A36	
2	e302	PL3/8"X5"	0'-9"	A572-GR.50	
1	f302	PL3/4"X8"	1'-9"	A572-GR.50	
1	h301	PL3/4"X11"	1'-3"	A572-GR.50	
8		3/4" DIA. W/N&W	0'-2 3/4"	A325N_TC	

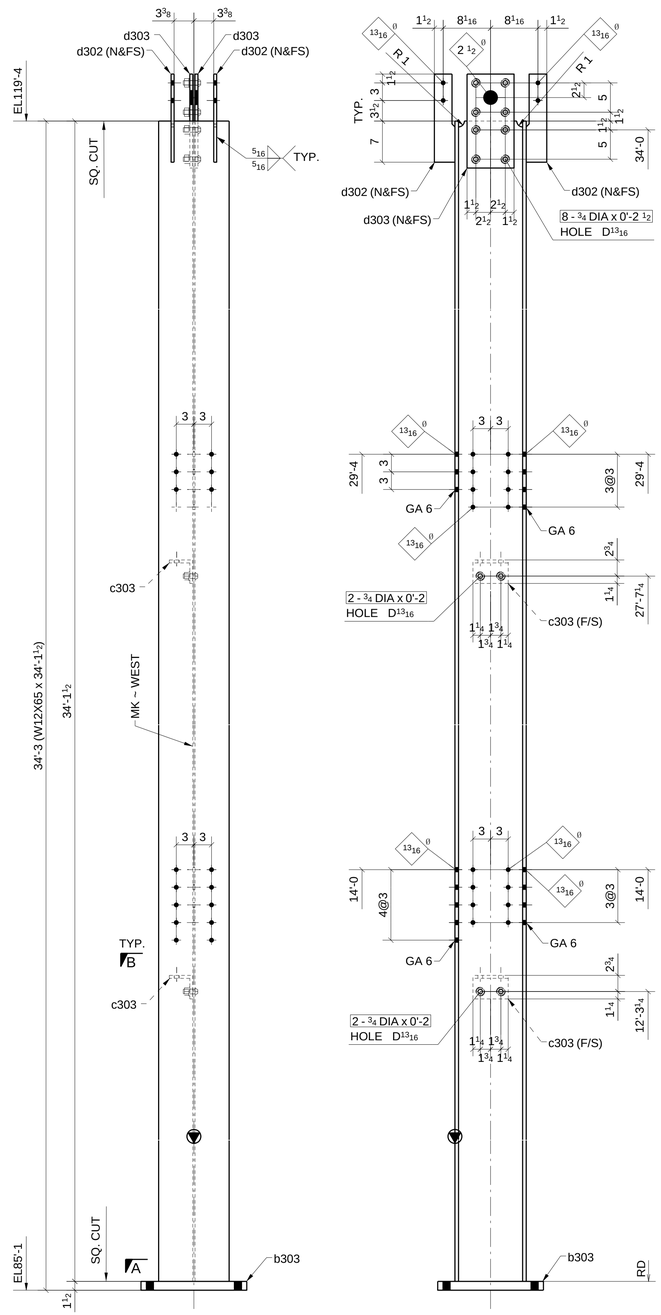
A	FOR APPROVAL		06/07/16
Sequence:	3	Ref. E-Plans:	–
Material:	A992 U.N.O.	Edge Dist.:	1 1/2" U.N.O.
Holes:	13/16"DIA.	Bolts:	NOTED
Cleaning:	NONE		
Paint:	NO		
DFT:		COLOR:	

Romac By: Checked By:

Beamline By: Checked By:

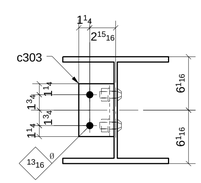
ATLAS IRON WORKS
ST. LOUIS, MO.

Project:	WEBSTER UNIVERSITY INTERDISCIPLINARY SCIENCE BUILDING
Customer:	PARIC CORPORATION
Owner:	WEBSTER UNIVERSITY
Location:	WEBSTER GUOVES,MO 63119
Dwn: TLI	Date: 06/03/2016 Ckd: LJ Date: 06/03/2016
Job No.	A16013 BAT: DWG#: 302

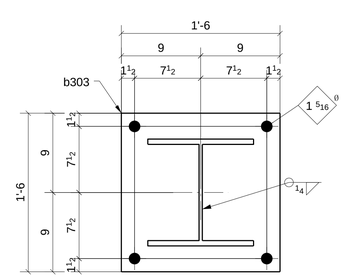


ONE - COLUMN ~ 303A

LOCATION: (REF: E3A,E3B)
ONE @ 4/B.3



SECTION - B



SECTION - A

SHOP BOLT IN SLOTTED HOLE
NEED "HAND TIGHTEN"

FOR APPROVAL

MATERIAL LIST

QTY	MARK	DESCRIPTION	LENGTH	MATERIAL	NOTES
1	303A	W12X65	34'-1 1/2"	A992	
1	b303	PL1 1/2"X18"	1'-6"	A36	
2	c303	L4X4X1/2	0'-6"	A36	
4	d302	PL1/2"X3 1/2"	1'-3"	A36	
2	d303	PL1/2"X8"	1'-4"	A36	
4		3/4" DIA. W/N&W	0'-2"	A325N TC	
8		3/4" DIA. W/N&W	0'-2 1/2"	A325N TC	

Romac By: Checked By:

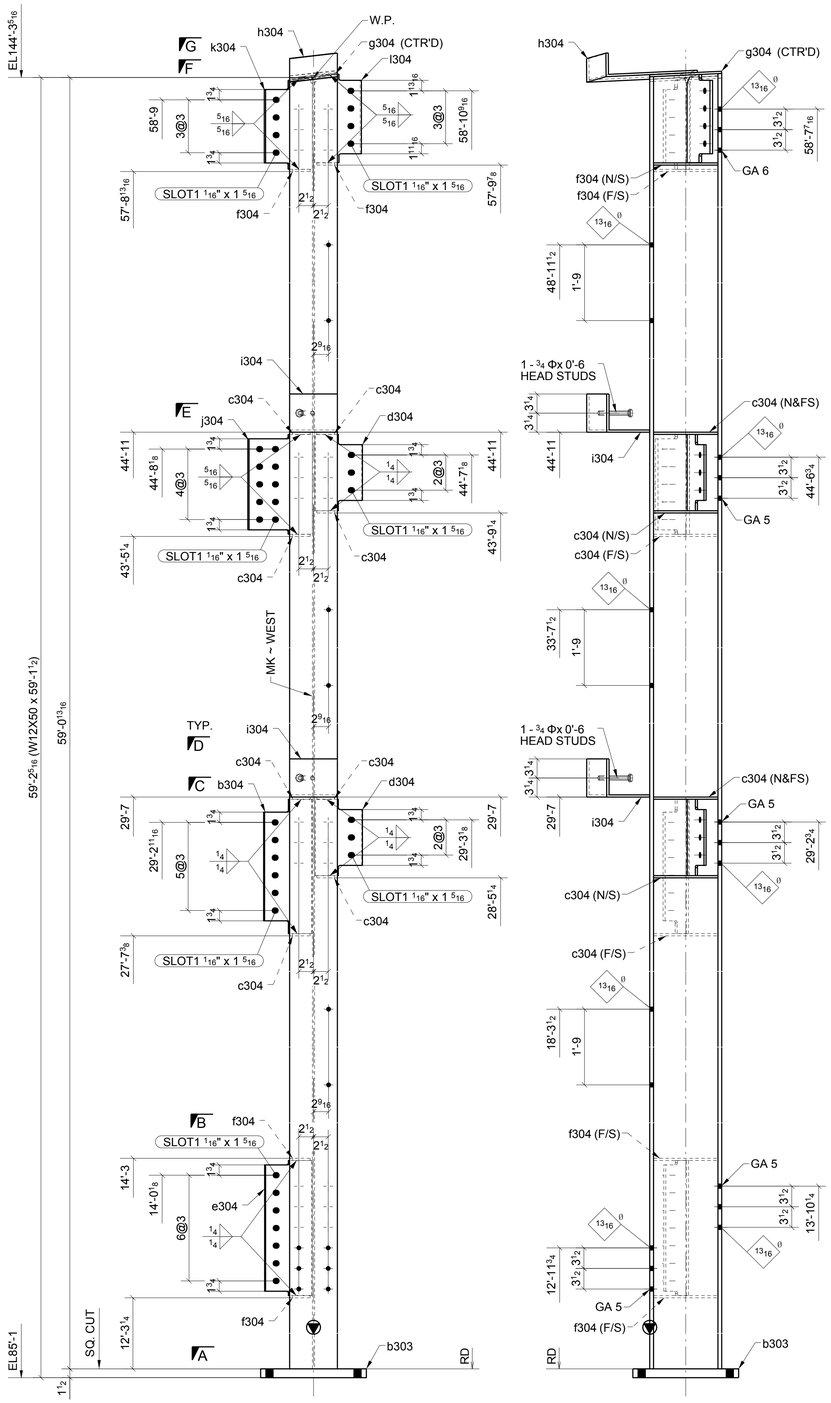
Beamline By: Checked By:

A	FOR APPROVAL	06/07/16

Sequence: 3 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:

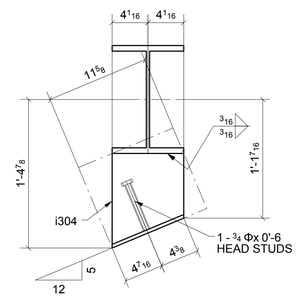
ATLAS IRON WORKS
ST. LOUIS, MO.

Project: WEBSTER UNIVERSITY INTERDISCIPLINARY SCIENCE BUILDING
Customer: PARIC CORPORATION
Owner: WEBSTER UNIVERSITY
Location: WEBSTER GUOVES,MO 63119
Dwn: TLI Date: 06/03/2016 Ckd: LJ Date: 06/03/2016
Job No. A16013 BAT: DWG#: 303

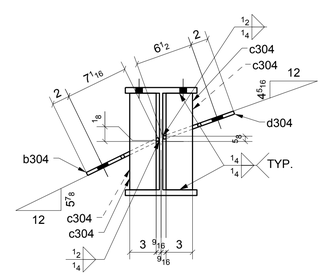


ONE - COLUMN ~ 304A

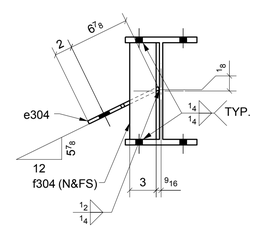
LOCATION: ONE @ 4/A.5-B.3 (REF: E3A,E3B)



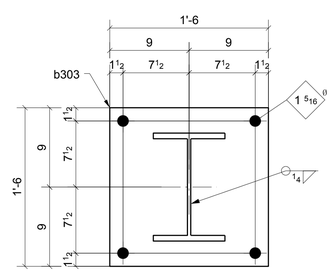
SECTION - D



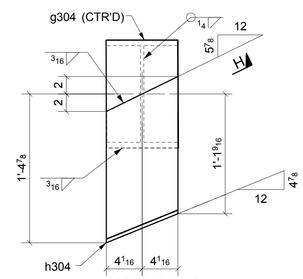
SECTION - C



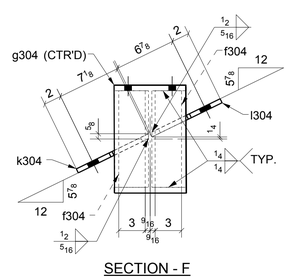
SECTION - B



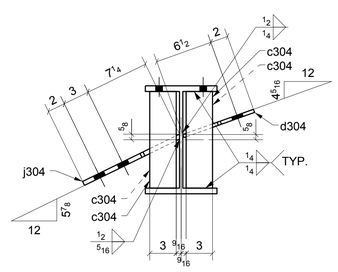
SECTION - A



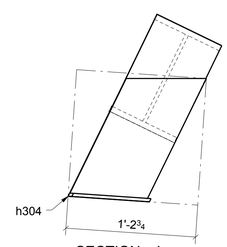
SECTION - G



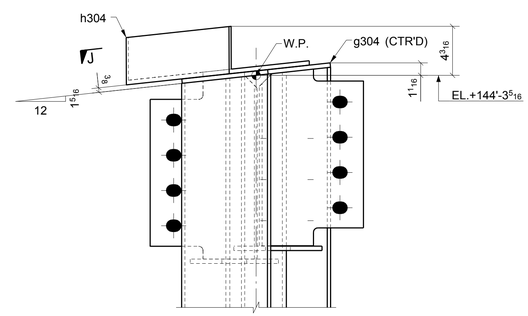
SECTION - F



SECTION - E



SECTION - J



SECTION - H

FOR APPROVAL

SHOP BOLT IN SLOTTED HOLE
NEED "HAND TIGHTEN"

MATERIAL LIST

QTY	MARK	DESCRIPTION	LENGTH	MATERIAL	NOTES
1	304A	W12X50	59'-1 1/2"	A992	
1	b303	PL1 1/2"X18"	1'-6"	A36	
1	b304	PL3/8"X9 1/16"	1'-10 7/8"	A36	
8	c304	PL3/8"X3"	0'-11"	A36	
2	d304	PL3/8"X8 1/2"	1'-1"	A36	
1	e304	PL3/8"X8 7/8"	1'-11"	A36	
4	f304	PL3/8"X3"	0'-11"	A36	
1	g304	PL3/8"X8 3/16"	1'-0 1/4"	A36	
1	h304	BPL3/8""18"1/2	1'-2 3/4"	A36	
2	i304	BPL3/8""16"7/16	0'-11 5/8"	A36	
1	j304	PL1/2"X12 1/4"	1'-5"	A36	
1	k304	PL1/2"X9 1/8"	1'-3 9/16"	A36	
1	l304	PL1/2"X8 7/8"	1'-3 1/16"	A36	
2		3/4" STUD	0'-6"		

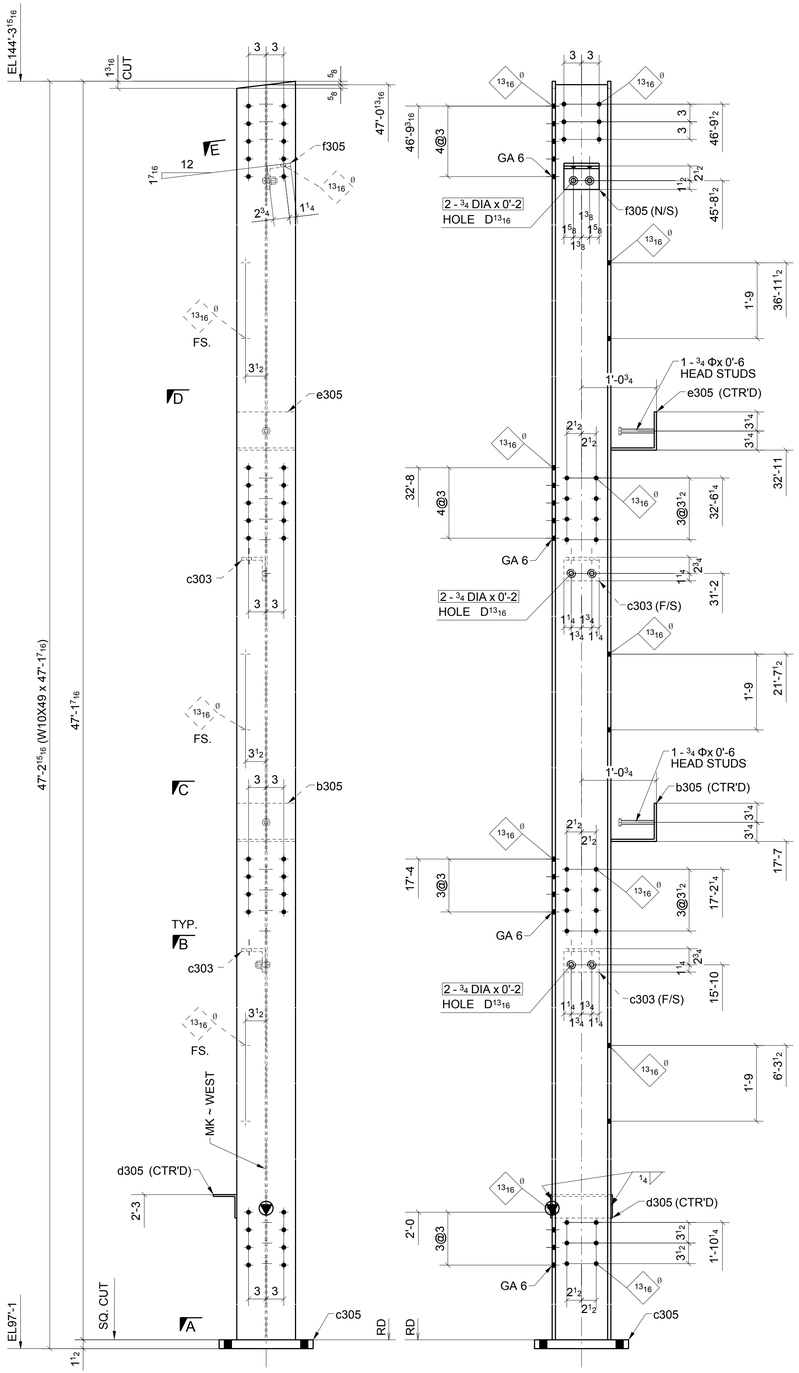
A	FOR APPROVAL		06/07/16
Sequence:	3	Ref. E-Plans:	–
Material:	A992 U.N.O.	Edge Dist.:	1 1/2" U.N.O.
Holes:	13/16"DIA.	Bolts:	NOTED
Cleaning:	NONE		
Paint:	NO		
DFT:		COLOR:	

Romac By: Checked By:

Beamline By: Checked By:

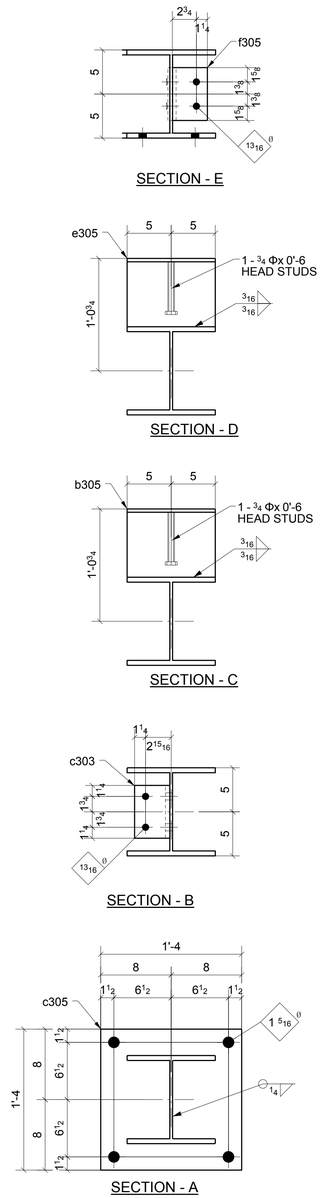
ATLAS IRON WORKS
ST. LOUIS, MO.

Project: WEBSTER UNIVERSITY INTERDISCIPLINARY SCIENCE BUILDING
Customer: PARIC CORPORATION
Owner: WEBSTER UNIVERSITY
Location: WEBSTER GUOVES,MO 63119
Dwn: TLI Date: 06/03/2016 Ckd: LJ Date: 06/07/2016
Job No. A16013 BAT: DWG#: 304



ONE - COLUMN ~ 305A

LOCATION: ONE @ 4/C.3 (REF: E3A,E3B)



SHOP BOLT IN SLOTTED HOLE
NEED "HAND TIGHTEN"

FOR APPROVAL

MATERIAL LIST

QTY	MARK	DESCRIPTION	LENGTH	MATERIAL	NOTES
1	305A	W10X49	47'-1 7/16"	A992	
1	b305	BPL3/8"X10"	1'-2 1/4"	A36	
2	c303	L4X4X1/2	0'-6"	A36	
1	c305	PL1 1/2"X16"	1'-4"	A36	
1	d305	L4X4X5/16	0'-10 1/2"	A36	
1	e305	BPL3/8"X10"	1'-2 1/4"	A36	
1	f305	BPL1/2"*8	0'-6"	A36	
6		3/4" DIA. W/N&W	0'-2"	A325N_TC	
2		3/4" STUD	0'-6"		

Romac By: Checked By:

Beamline By: Checked By:

A FOR APPROVAL 06/07/16

Sequence: 3 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

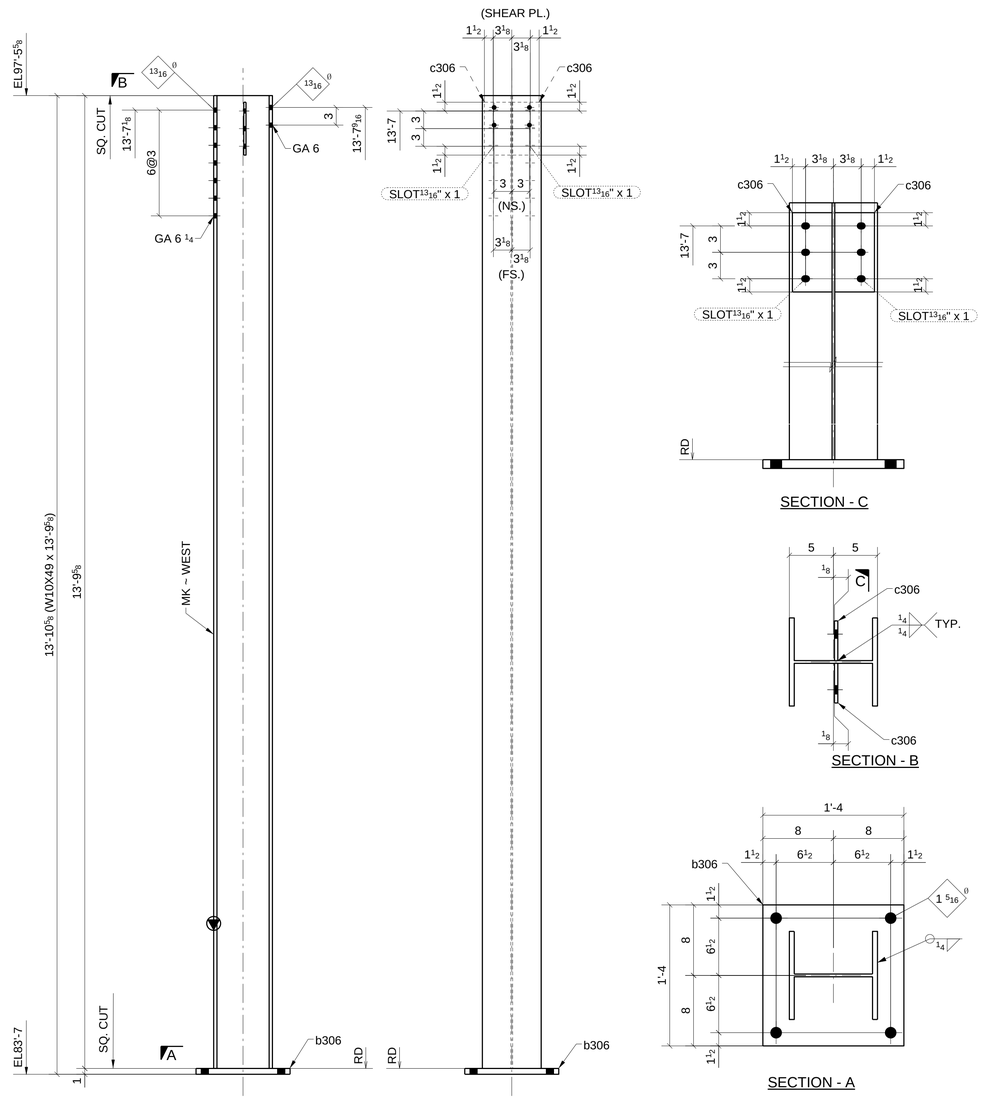
Customer: PARIC CORPORATION

Owner: WEBSTER UNIVERSITY

Location: WEBSTER GUOVES,MO 63119

Dwn: TLI Date: 06/03/2016 Ckd: LJ Date: 06/06/2016

Job No. A16013 BAT: DWG#: 305



ONE - COLUMN ~ 306A

LOCATION: ONE @ 4.5/W

(REF: E3A,E3B)

SHOP BOLT IN SLOTTED HOLE
NEED "HAND TIGHTEN"

FOR APPROVAL

MATERIAL LIST

QTY	MARK	DESCRIPTION	LENGTH	MATERIAL	NOTES
1	306A	W10X49	13'-9 5/8"	A992	
1	b306	PL1"X16"	1'-4"	A36	
2	c306	PL3/8"X4 1/2"	0'-9"	A36	

Romac By: Checked By:

Beamline By: Checked By:

A	FOR APPROVAL	06/07/16

Sequence: 3 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

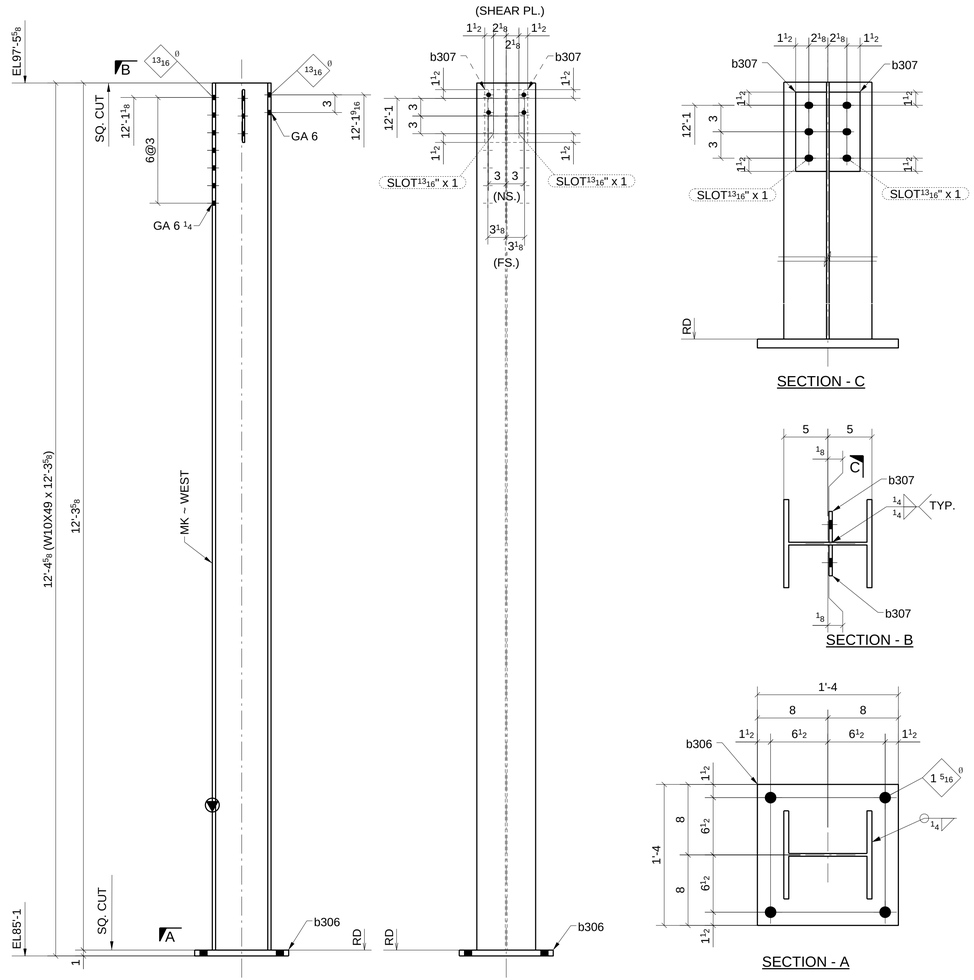
Customer: PARIC CORPORATION

Owner: WEBSTER UNIVERSITY

Location: WEBSTER GUOVES,MO 63119

Dwn: TLI Date: 06/03/2016 Ckd: LJ Date: 06/03/2016

Job No. A16013 BAT: DWG#: 306



ONE - COLUMN ~ 307A

LOCATION: (REF: E3A,E3B)
ONE @ 4.5/X

MATERIAL LIST

QTY	MARK	DESCRIPTION	LENGTH	MATERIAL	NOTES
1	307A	W10X49	12'-3 5/8"	A992	
1	b306	PL1"X16"	1'-4"	A36	
2	b307	PL3/8"X3 1/2"	0'-9"	A36	

FOR APPROVAL

SHOP BOLT IN SLOTTED HOLE
NEED "HAND TIGHTEN"

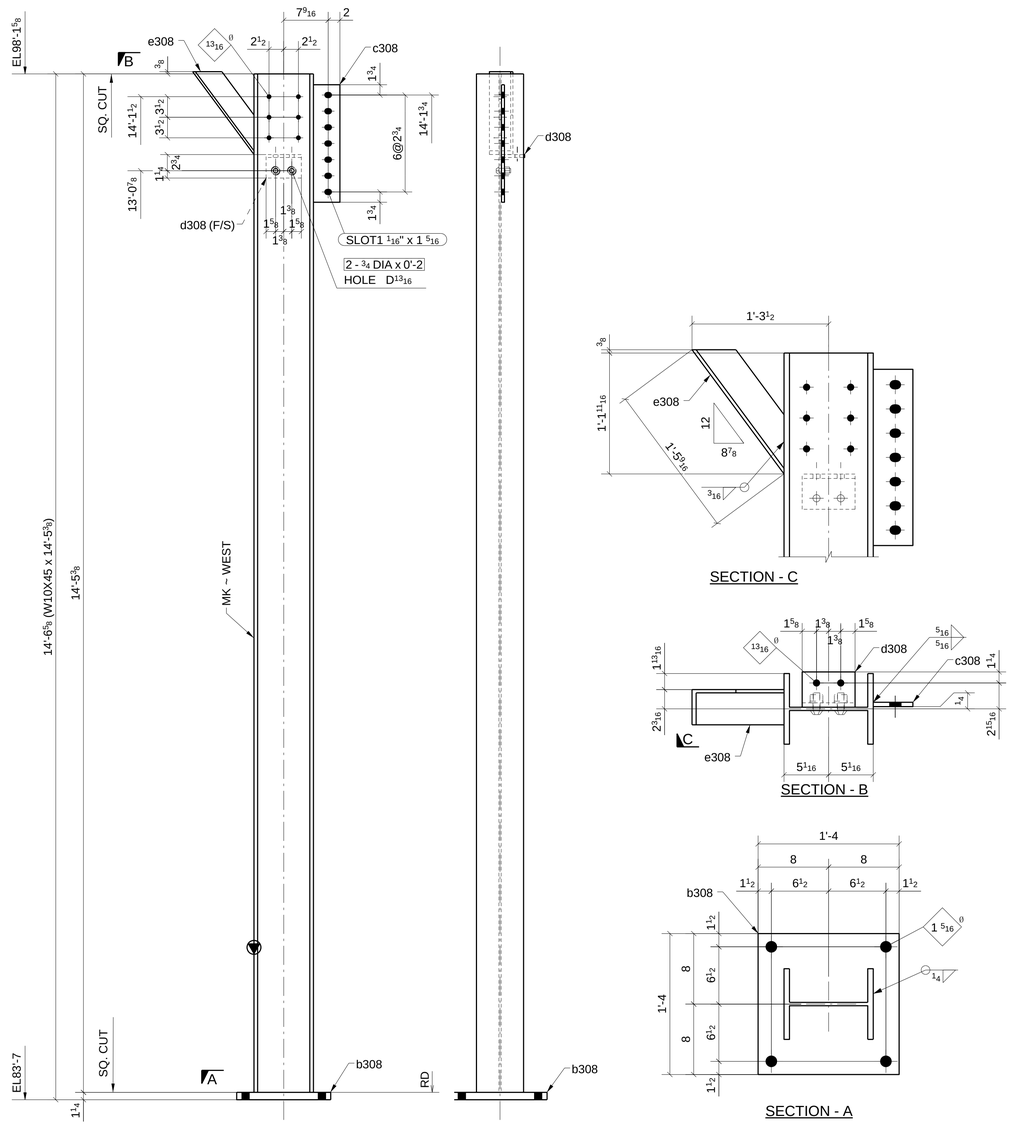
A	FOR APPROVAL	06/07/16

Sequence: 3 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: 06/03/2016 Ckd: LJ Date: 06/06/2016
Job No. A16013 BAT: DWG#: 307



ONE - COLUMN ~ 308A

LOCATION: (REF: E3A,E3B)
ONE @ 3/W

SHOP BOLT IN SLOTTED HOLE
NEED "HAND TIGHTEN"

FOR APPROVAL

MATERIAL LIST

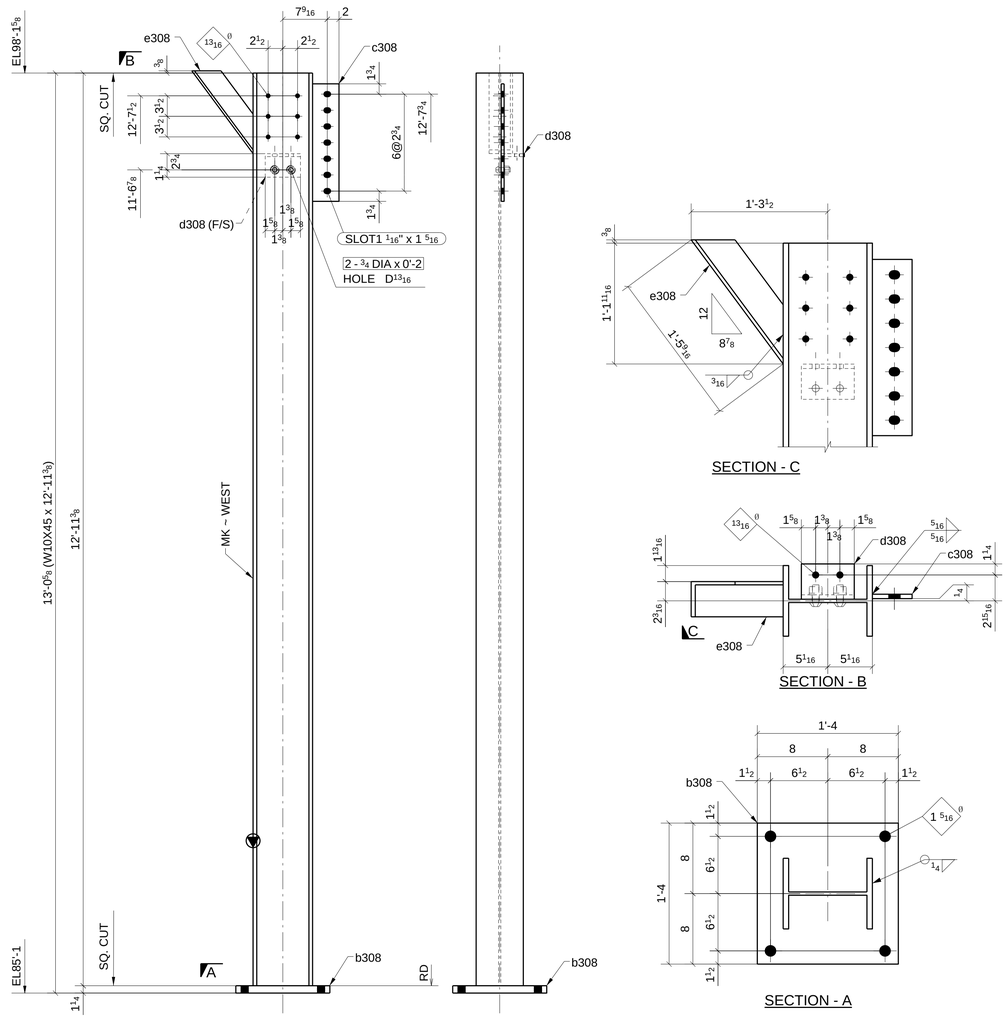
QTY	MARK	DESCRIPTION	LENGTH	MATERIAL	NOTES
1	308A	W10X45	14'-5 3/8"	A992	
1	b308	PL1 1/4"X16"	1'-4"	A36	
1	c308	PL1/2"X4 1/2"	1'-8"	A572-GR.50	
1	d308	L4X4X1/2	0'-6"	A36	
1	e308	L4X4X3/8	1'-5 9/16"	A36	
2		3/4" DIA. W/N&W	0'-2"	A325N TC	

A	FOR APPROVAL		06/07/16
Sequence:	3	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: 06/03/2016 Ckd: LJ Date: 06/06/2016
Job No. A16013 BAT: DWG#: 308



ONE - COLUMN ~ 309A

LOCATION: ONE @ 3/X

(REF: E3A,E3B)

FOR APPROVAL

SHOP BOLT IN SLOTTED HOLE
NEED "HAND TIGHTEN"

MATERIAL LIST

QTY	MARK	DESCRIPTION	LENGTH	MATERIAL	NOTES
1	309A	W10X45	12'-11 3/8"	A992	
1	b308	PL1 1/4"X16"	1'-4"	A36	
1	c308	PL1/2"X4 1/2"	1'-8"	A572-GR.50	
1	d308	L4X4X1/2	0'-6"	A36	
1	e308	L4X4X3/8	1'-5 9/16"	A36	
2		3/4" DIA. W/N&W	0'-2"	A325N TC	

A	FOR APPROVAL		06/07/16
Sequence:	3	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

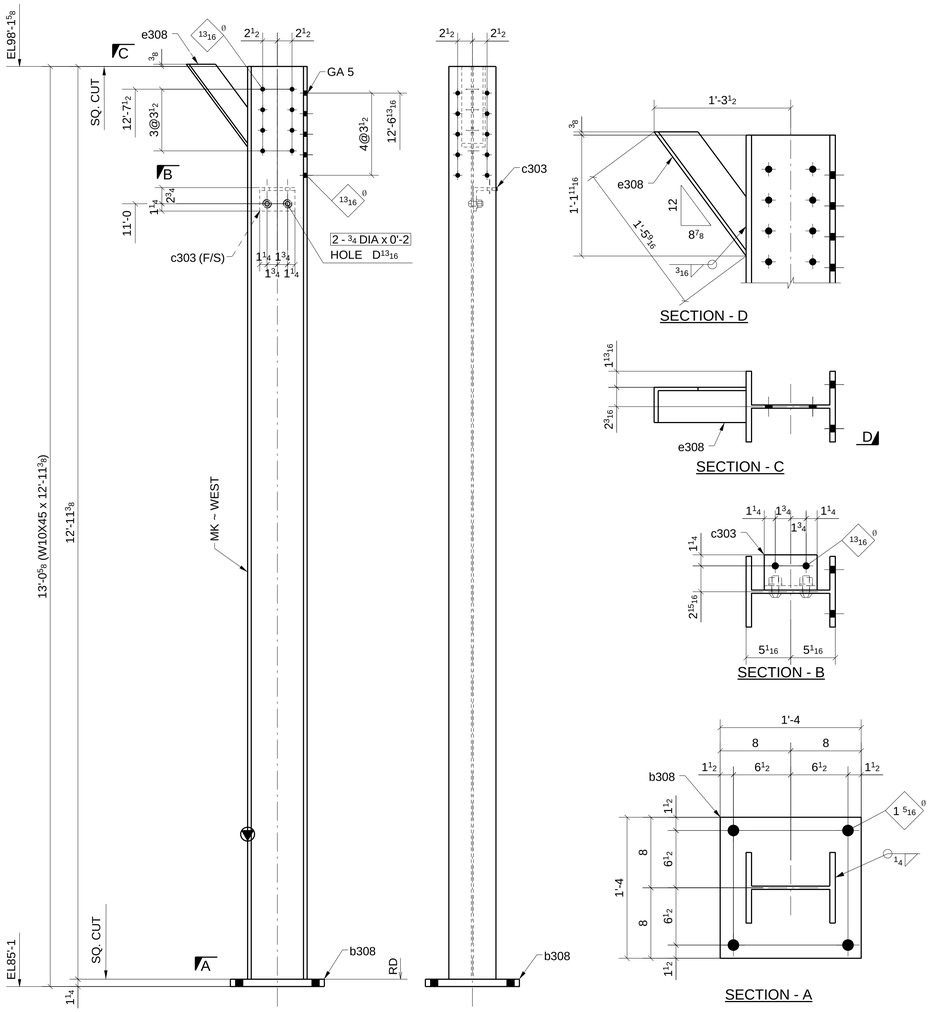
Customer: PARIC CORPORATION

Owner: WEBSTER UNIVERSITY

Location: WEBSTER GUOVES,MO 63119

Dwn: TLI Date: 06/03/2016 Ckd: LJ Date: 06/06/2016

Job No. A16013 BAT: DWG#: 309



ONE - COLUMN ~ 310A

LOCATION: (REF: E3A,E3B)
ONE @ 3/4-A.5

SHOP BOLT IN SLOTTED HOLE
NEED "HAND TIGHTEN"

FOR APPROVAL

MATERIAL LIST

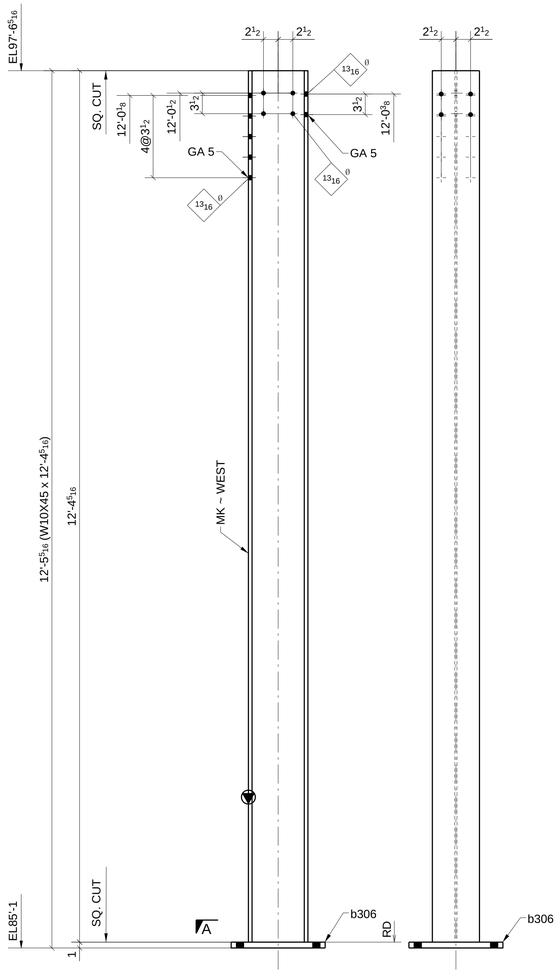
QTY	MARK	DESCRIPTION	LENGTH	MATERIAL	NOTES
1	310A	W10X45	12'-11 3/8"	A992	
1	b308	PL1 1/4"X16"	1'-4"	A36	
1	c303	L4X4X1/2	0'-6"	A36	
1	e308	L4X4X3/8	1'-5 9/16"	A36	
2		3/4" DIA. W/N&W	0'-2"	A325N_TC	

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

A	FOR APPROVAL		06/07/16
Sequence:	3	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.

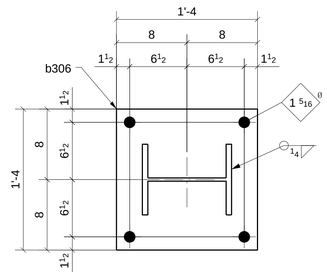
Project: WEBSTER UNIVERSITY INTERDISCIPLINARY SCIENCE BUILDING
Customer: PARIC CORPORATION
Owner: WEBSTER UNIVERSITY
Location: WEBSTER GUOVES,MO 63119
Dwn: TLI Date: 06/03/2016 Ckd: LJ Date: 06/06/2016
Job No. A16013 BAT: DWG#: 310



ONE - COLUMN ~ 311A

LOCATION:
ONE @ 4>/4-A.5

(REF: E3A,E3B)



SECTION - A

MATERIAL LIST

QTY	MARK	DESCRIPTION	LENGTH	MATERIAL	NOTES
1	311A	W10X45	12'-4 5/16"	A992	
1	b306	PL1"X16"	1'-4"	A36	

FOR APPROVAL

SHOP BOLT IN SLOTTED HOLE
NEED "HAND TIGHTEN"

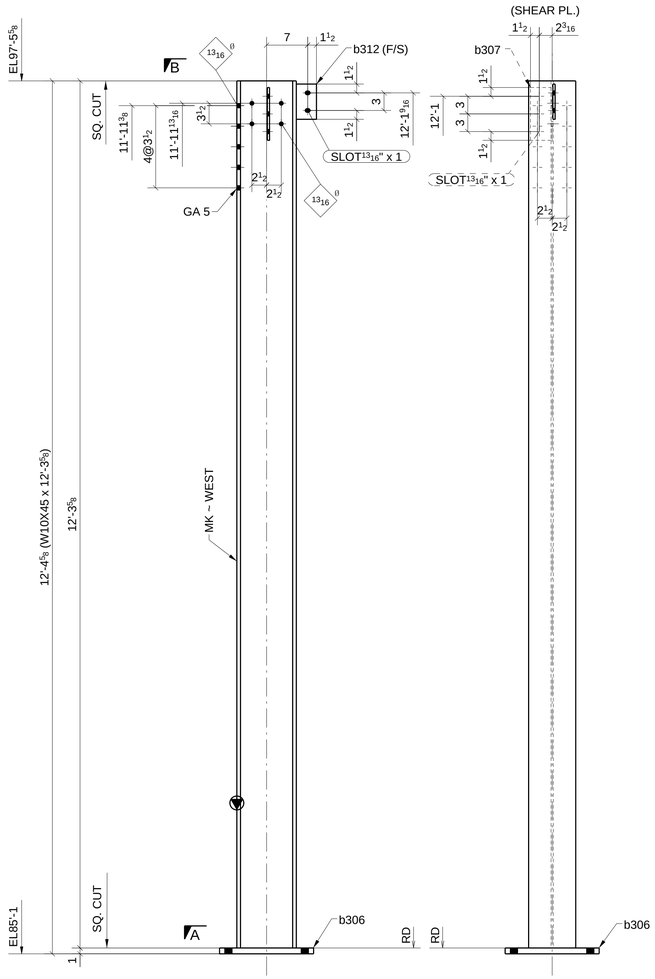
A	FOR APPROVAL		06/07/16
Sequence:	3	Ref. E-Plans:	–
Material:	A992 U.N.O.	Edge Dist.:	1 1/2" U.N.O.
Holes:	13/16"DIA.	Bolts:	NOTED
Cleaning:	NONE		
Paint:	NO		
DFT:		COLOR:	

Romac By: Checked By:

Beamline By: Checked By:

ATLAS IRON WORKS
ST. LOUIS, MO.

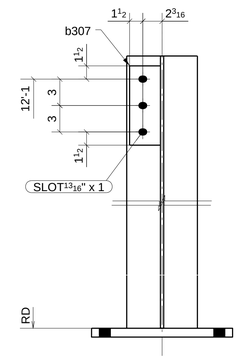
Project:	WEBSTER UNIVERSITY INTERDISCIPLINARY SCIENCE BUILDING		
Customer:	PARIC CORPORATION		
Owner:	WEBSTER UNIVERSITY		
Location:	WEBSTER GUOVES,MO 63119		
Dwn: TLI	Date: 06/03/2016	Ckd: LJ	Date: 06/06/2016
Job No. A16013	BAT:	DWG#: 311	



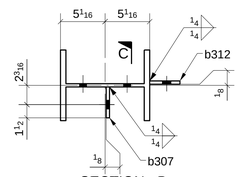
ONE - COLUMN ~ 312A

LOCATION: (REF: E3A,E3B)

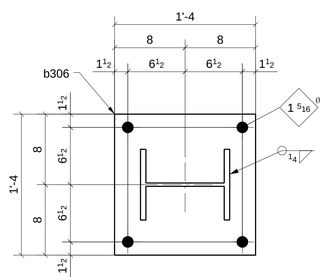
ONE @ 4.5/Y



SECTION - C



SECTION - B



SECTION - A

SHOP BOLT IN SLOTTED HOLE
NEED "HAND TIGHTEN"

FOR APPROVAL

MATERIAL LIST

QTY	MARK	DESCRIPTION	LENGTH	MATERIAL	NOTES
1	312A	W10X45	12'-3 5/8"	A992	
1	b306	PL1"X16"	1'-4"	A36	
1	b307	PL3/8"X3 1/2"	0'-9"	A36	
1	b312	PL3/8"X3 7/16"	0'-6"	A36	

Romac By: Checked By:

Beamline By: Checked By:

A	FOR APPROVAL	06/07/16

Sequence: 3 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

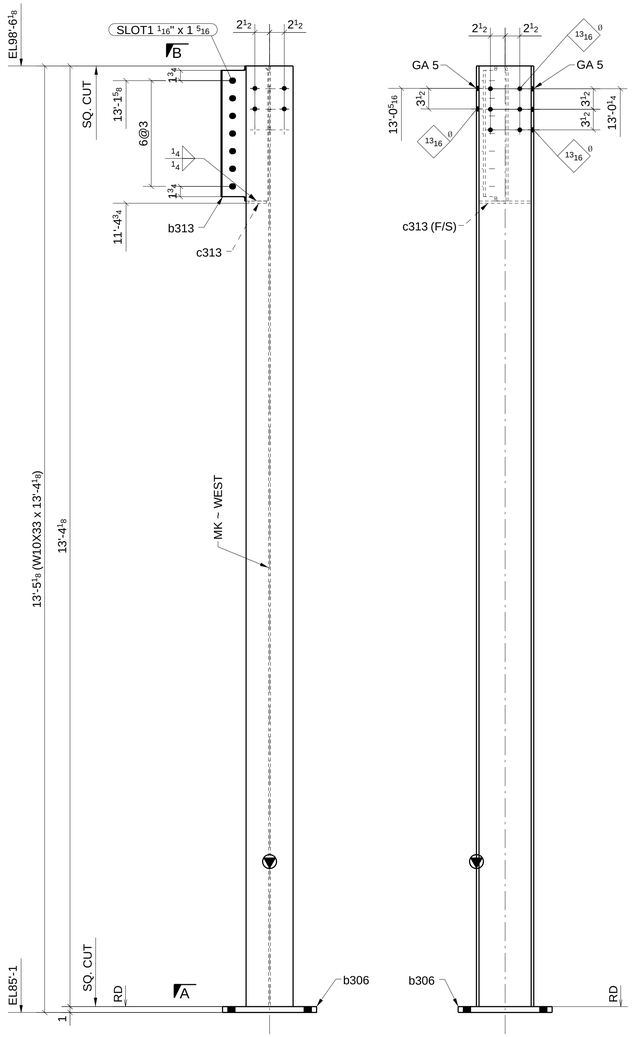
Customer: PARIC CORPORATION

Owner: WEBSTER UNIVERSITY

Location: WEBSTER GUOVES,MO 63119

Dwn: TLI Date: 06/03/2016 Ckd: LJ Date: 06/03/2016

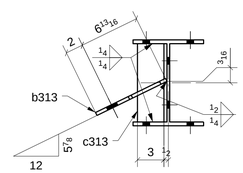
Job No. A16013 BAT: DWG#: 312



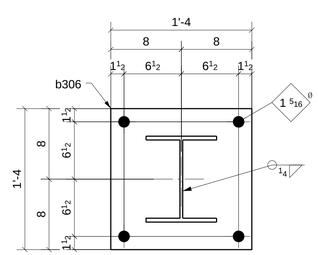
ONE - COLUMN ~ 313A

LOCATION: ONE @ 4/4-A.5

(REF: E3A,E3B)



SECTION - B



SECTION - A

SHOP BOLT IN SLOTTED HOLE
NEED "HAND TIGHTEN"

FOR APPROVAL

MATERIAL LIST

QTY	MARK	DESCRIPTION	LENGTH	MATERIAL	NOTES
1	313A	W10X33	13'-4 1/8"	A992	
1	b306	PL1"X16"	1'-4"	A36	
1	b313	PL3/8"X8 13/16"	1'-11"	A36	
1	c313	PL3/8"X3"	0'-8 7/8"	A36	

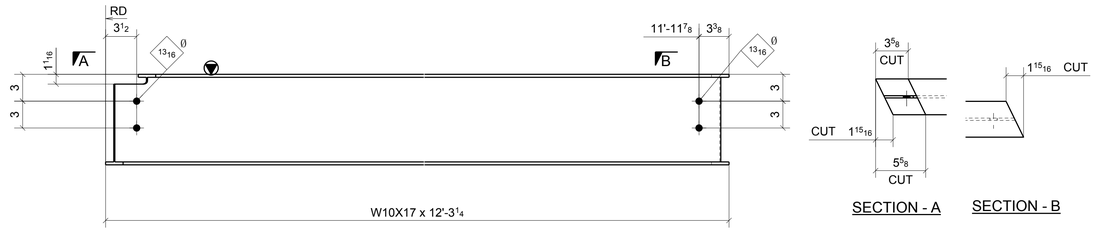
A	FOR APPROVAL		06/07/16
Sequence:	3	Ref. E-Plans:	--
Material:	A992 U.N.O.	Edge Dist.:	1 1/2" U.N.O.
Holes:	13/16"DIA.	Bolts:	NOTED
Cleaning:	NONE		
Paint:	NO		
DFT:		COLOR:	

Romac By: Checked By:

Beamline By: Checked By:

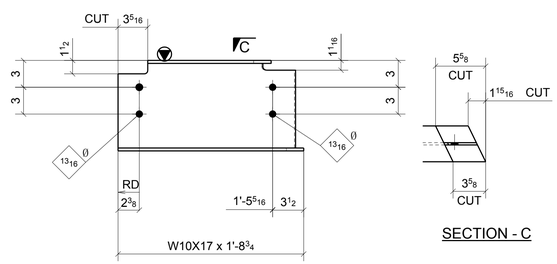
ATLAS IRON WORKS
ST. LOUIS, MO.

Project:	WEBSTER UNIVERSITY INTERDISCIPLINARY SCIENCE BUILDING
Customer:	PARIC CORPORATION
Owner:	WEBSTER UNIVERSITY
Location:	WEBSTER GUOVES,MO 63119
Dwn: TLI	Date: 06/03/2016 Ckd: LJ Date: 06/06/2016
Job No. A16013	BAT: DWG#: 313



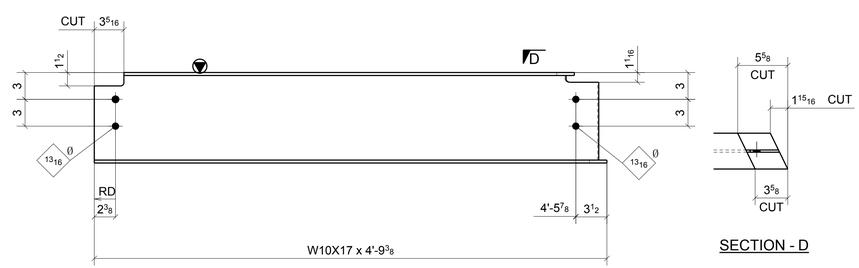
3 - BEAMS ~ 314A

LOCATION: (REF: E3A)
ONE @ 3-4/4-A.5
ONE @ 3-4/4-B.3
ONE @ 3-4/4-B.3



ONE - BEAM ~ 314B

LOCATION: (REF: E3A)
ONE @ 3-4/4-A.5



ONE - BEAM ~ 314C

LOCATION: (REF: E3A)
ONE @ 3-4/4-A.5

SHOP BOLT IN SLOTTED HOLE
NEED "HAND TIGHTEN"

FOR APPROVAL

MATERIAL LIST

QTY	MARK	DESCRIPTION	LENGTH	MATERIAL	NOTES
3	314A	W10X17	12'-3 1/4"	A992	
1	314B	W10X17	1'-8 3/4"	A992	
1	314C	W10X17	4'-9 3/8"	A992	

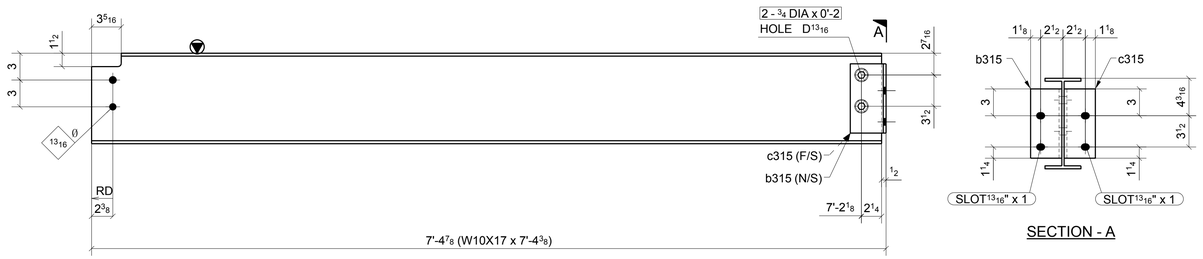
Romac By: _____ Checked By: _____
Beamline By: _____ Checked By: _____

ATLAS IRON WORKS
ST. LOUIS, MO.

A	FOR APPROVAL	06/07/16

Sequence: 3 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: _____

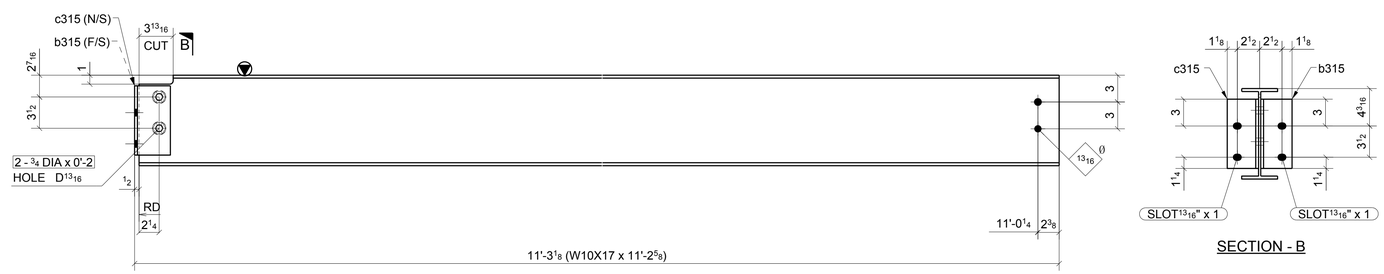
Project: WEBSTER UNIVERSITY INTERDISCIPLINARY SCIENCE BUILDING
Customer: PARIC CORPORATION
Owner: WEBSTER UNIVERSITY
Location: WEBSTER GUOVES,MO 63119
Dwn: ZZ Date: 06/03/2016 Ckd: LJ Date: 06/03/2016
Job No. A16013 BAT: _____ DWG#: 314



SECTION - A

ONE - BEAM ~ 315A

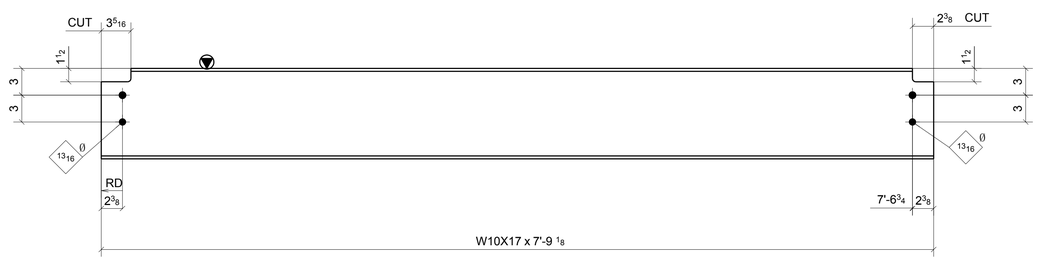
LOCATION: (REF: E3A)
ONE @ 4/4-A.5



SECTION - B

ONE - BEAM ~ 315B

LOCATION: (REF: E3A)
ONE @ 4.4/Z>



ONE - BEAM ~ 315C

LOCATION: (REF: E3A)
ONE @ 4>/4-A.5

SHOP BOLT IN SLOTTED HOLE
NEED "HAND TIGHTEN"

FOR APPROVAL

MATERIAL LIST

QTY	MARK	DESCRIPTION	LENGTH	MATERIAL	NOTES
1	315A	W10X17	7'-4 3/8"	A992	
1	b315	L4X3-1/2X5/16	0'-7 3/4"	A36	
1	c315	L4X3-1/2X5/16	0'-7 3/4"	A36	
2		3/4" DIA. W/N&W	0'-2"	A325N_TC	
1	315B	W10X17	11'-2 5/8"	A992	
1	b315	L4X3-1/2X5/16	0'-7 3/4"	A36	
1	c315	L4X3-1/2X5/16	0'-7 3/4"	A36	
2		3/4" DIA. W/N&W	0'-2"	A325N_TC	
1	315C	W10X17	7'-9 1/8"	A992	

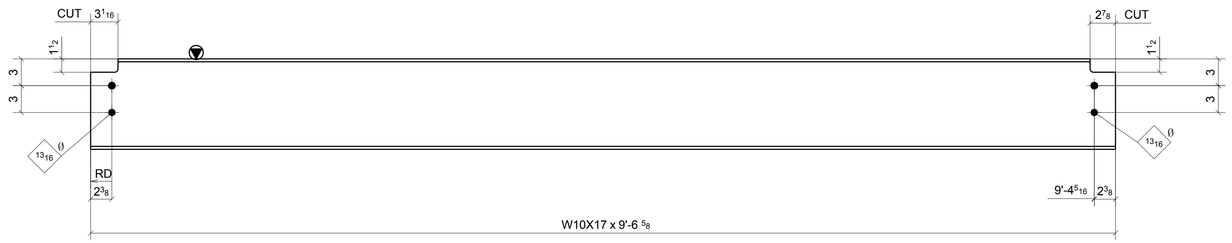
Romac By: Checked By:
Beamline By: Checked By:

ATLAS IRON WORKS
ST. LOUIS, MO.

A	FOR APPROVAL	06/07/16

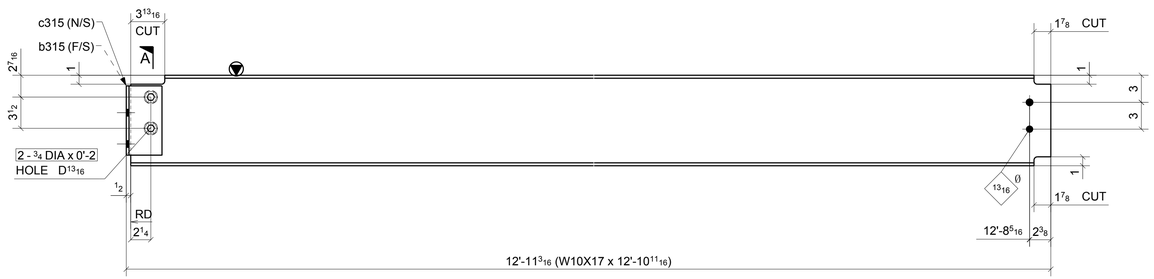
Sequence: 3 Ref. E-Plans: –
Material: A992 U.N.O. Edge Dist.: 1 1/2" U.N.O.
Holes: 13/16"DIA. Bolts: NOTED
Cleaning: NONE
Paint: NO
DFT: COLOR:

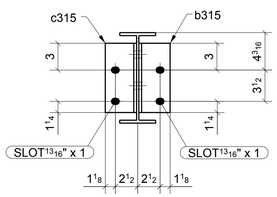
Project: WEBSTER UNIVERSITY INTERDISCIPLINARY SCIENCE BUILDING
Customer: PARIC CORPORATION
Owner: WEBSTER UNIVERSITY
Location: WEBSTER GUOVES,MO 63119
Dwn: ZZ Date: 06/03/2016 Ckd: LJ Date: 06/03/2016
Job No. A16013 BAT: DWG#: 315



ONE - BEAM ~ 316A

LOCATION: (REF: E3A)
ONE @ 4>/A.5-B.3

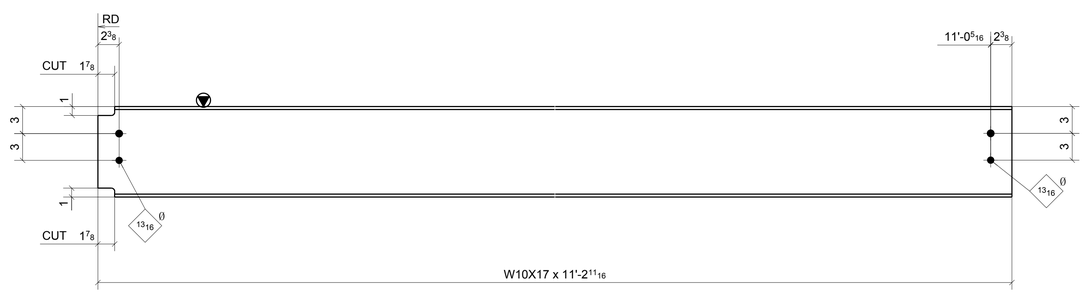




SECTION - A

ONE - BEAM ~ 316B

LOCATION: (REF: E3A)
ONE @ 4.5/Y-Z



ONE - BEAM ~ 316C

LOCATION: (REF: E3A)
ONE @ 4.5/Z>

SHOP BOLT IN SLOTTED HOLE
NEED "HAND TIGHTEN"

FOR APPROVAL

A	FOR APPROVAL		06/07/16
Sequence:	3	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:	

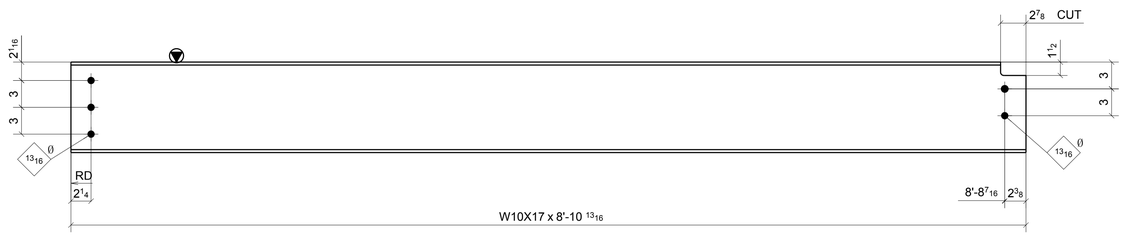
MATERIAL LIST

QTY	MARK	DESCRIPTION	LENGTH	MATERIAL	NOTES
1	316A	W10X17	9'-6 5/8"	A992	
1	316B	W10X17	12'-10 11/16"	A992	
1	b315	L4X3-1/2X5/16	0'-7 3/4"	A36	
1	c315	L4X3-1/2X5/16	0'-7 3/4"	A36	
2		3/4" DIA. W/N&W	0'-2"	A325N TC	
1	316C	W10X17	11'-2 11/16"	A992	

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

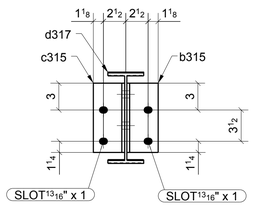
ATLAS IRON WORKS
ST. LOUIS, MO.

Project:	WEBSTER UNIVERSITY INTERDISCIPLINARY SCIENCE BUILDING		
Customer:	PARIC CORPORATION		
Owner:	WEBSTER UNIVERSITY		
Location:	WEBSTER GUOVES,MO 63119		
Dwn: ZZ	Date: 06/03/2016	Ckd: LJ	Date: 06/03/2016
Job No. A16013	BAT:	DWG#: 316	

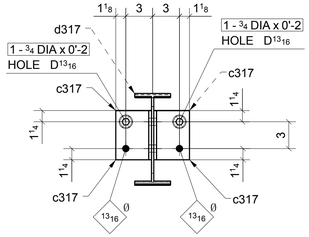


ONE - BEAM ~ 317A

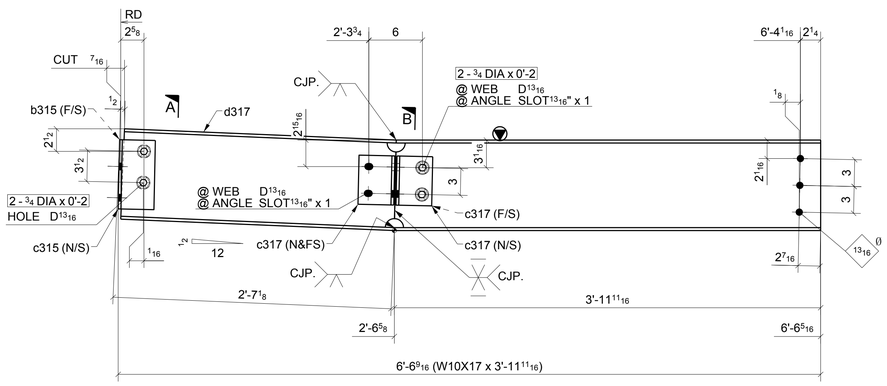
LOCATION: (REF: E3A)
ONE @ 4>/A.5-B.3



SECTION - A



SECTION - B



ONE - BEAM ~ 317B

LOCATION: (REF: E3A)
ONE @ 4.5-4.6/Z

SHOP BOLT IN SLOTTED HOLE
NEED "HAND TIGHTEN"

FOR APPROVAL

MATERIAL LIST

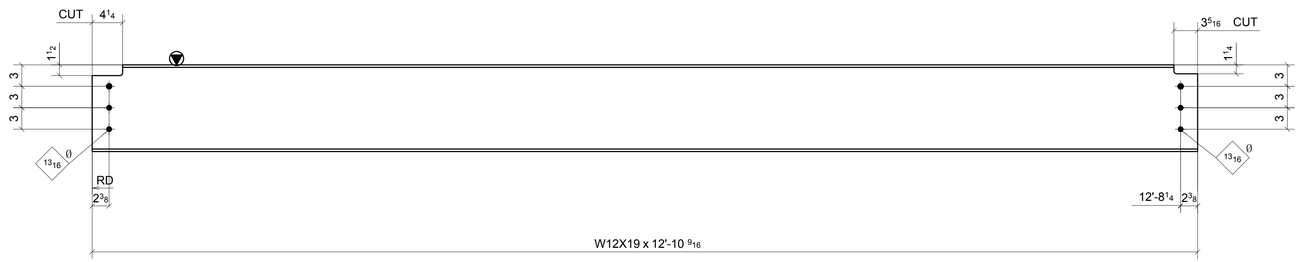
QTY	MARK	DESCRIPTION	LENGTH	MATERIAL	NOTES
1	317A	W10X17	8'-10 13/16"	A992	
1	317B	W10X17	3'-11 11/16"	A992	
1	b315	L4X3-1/2X5/16	0'-7 3/4"	A36	
1	c315	L4X3-1/2X5/16	0'-7 3/4"	A36	
4	c317	L4X4X5/16	0'-5 1/2"	A36	
1	d317	W10X17	2'-6 5/8"	A992	
2		3/4" DIA. W/N&W	0'-2"	A325N TC	
4		3/4" DIA. W/N&W	0'-2"	A325N TC	

A	FOR APPROVAL		06/07/16
Sequence:	3	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:

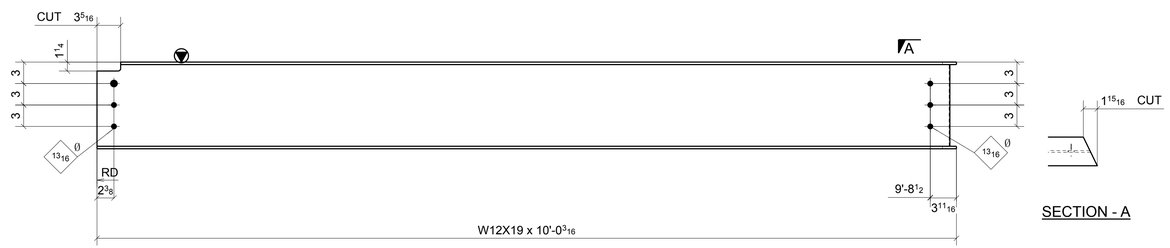
ATLAS IRON WORKS
ST. LOUIS, MO.

Project: WEBSTER UNIVERSITY INTERDISCIPLINARY SCIENCE BUILDING
Customer: PARIC CORPORATION
Owner: WEBSTER UNIVERSITY
Location: WEBSTER GUOVES,MO 63119
Dwn: ZZ Date: 06/03/2016 Ckd: LJ Date: 06/06/2016
Job No. A16013 BAT: DWG#: 317



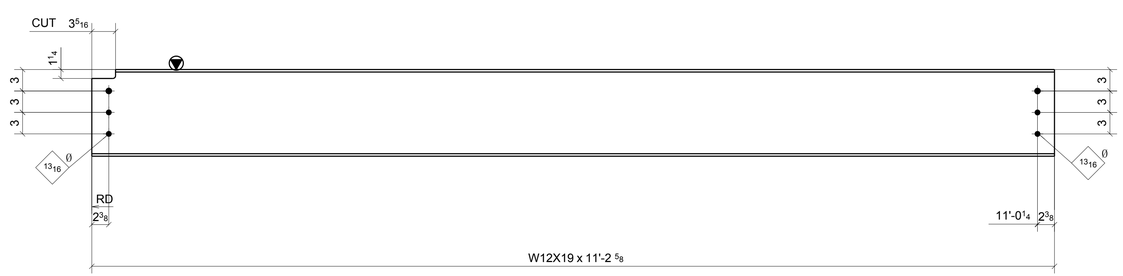
3 - BEAMS ~ 318A

LOCATION: (REF: E3A)
ONE @ 3-4.4/Y-Z
ONE @ 3-4.4/Y-Z
ONE @ 3-4.4/Y-Z



ONE - BEAM ~ 318B

LOCATION: (REF: E3A)
ONE @ 3-4.4/Z>



3 - BEAMS ~ 318C

LOCATION: (REF: E3A)
ONE @ 3-4.4/Z>
ONE @ 3-4.4/Z>
ONE @ 3-4.4/Z>

SHOP BOLT IN SLOTTED HOLE
NEED "HAND TIGHTEN"

FOR APPROVAL

MATERIAL LIST

QTY	MARK	DESCRIPTION	LENGTH	MATERIAL	NOTES
3	318A	W12X19	12'-10 9/16"	A992	
1	318B	W12X19	10'-0 3/16"	A992	
3	318C	W12X19	11'-2 5/8"	A992	

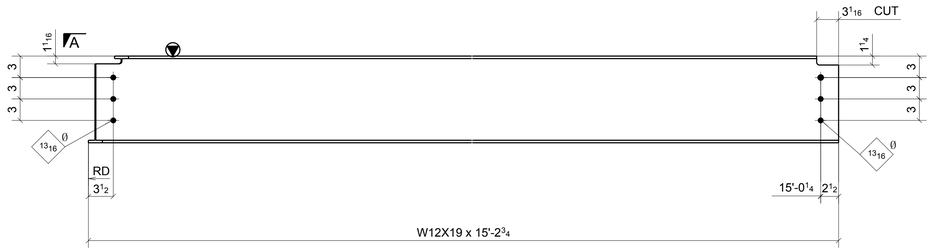
Romac By: Checked By:
Beamline By: Checked By:

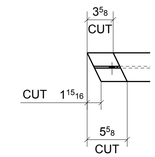
A FOR APPROVAL 06/07/16

Sequence: 3 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: 06/03/2016 Ckd: LJ Date: 06/03/2016
Job No. A16013 BAT: DWG#: 318

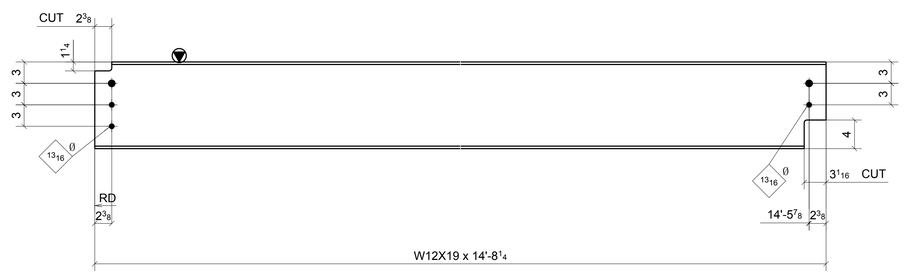




SECTION - A

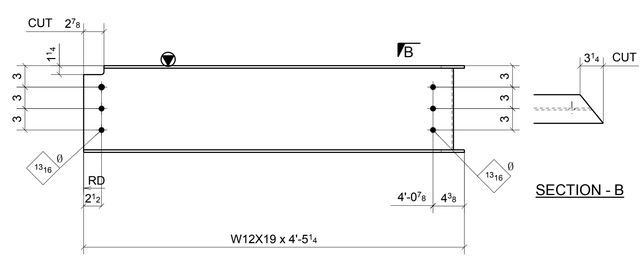
ONE - BEAM ~ 319A

LOCATION: (REF: E3A)
ONE @ 3-4/A.5-B.3



ONE - BEAM ~ 319B

LOCATION: (REF: E3A)
ONE @ 4>/4-B.3



SECTION - B

ONE - BEAM ~ 319C

LOCATION: (REF: E3A)
ONE @ 4>/C.3>

SHOP BOLT IN SLOTTED HOLE
NEED "HAND TIGHTEN"

FOR APPROVAL

MATERIAL LIST

QTY	MARK	DESCRIPTION	LENGTH	MATERIAL	NOTES
1	319A	W12X19	15'-2 3/4"	A992	
1	319B	W12X19	14'-8 1/4"	A992	
1	319C	W12X19	4'-5 1/4"	A992	

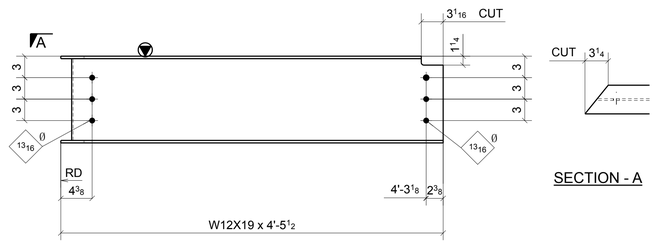
Romac By: Checked By:
Beamline By: Checked By:

A FOR APPROVAL 06/07/16

Sequence: 3 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.

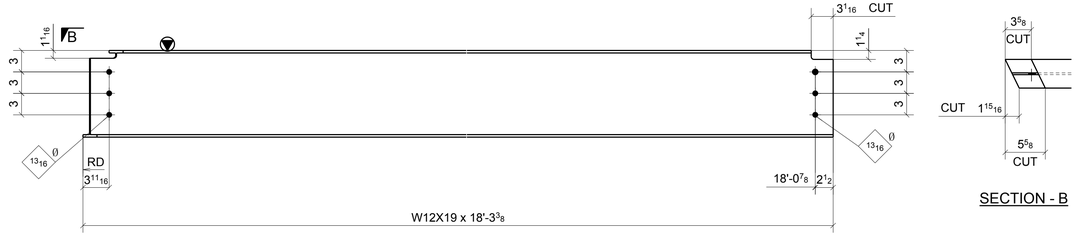
Project: WEBSTER UNIVERSITY INTERDISCIPLINARY SCIENCE BUILDING
Customer: PARIC CORPORATION
Owner: WEBSTER UNIVERSITY
Location: WEBSTER GUOVES,MO 63119
Dwn: ZZ Date: 06/03/2016 Ckd: LJ Date: 06/06/2016
Job No. A16013 BAT: DWG#: 319



SECTION - A

ONE - BEAM ~ 320A

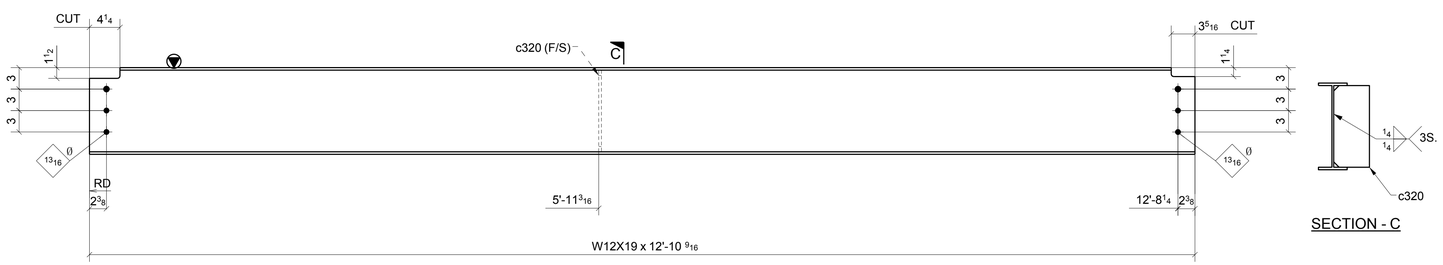
LOCATION: (REF: E3A)
ONE @ <5/C.3-D



SECTION - B

ONE - BEAM ~ 320B

LOCATION: (REF: E3A)
ONE @ 3-4/A.5-B.3



SECTION - C

ONE - BEAM ~ 320C

LOCATION: (REF: E3A)
ONE @ 3-4.4/Y-Z

SHOP BOLT IN SLOTTED HOLE
NEED "HAND TIGHTEN"

FOR APPROVAL

MATERIAL LIST

QTY	MARK	DESCRIPTION	LENGTH	MATERIAL	NOTES
1	320A	W12X19	4'-5 1/2"	A992	
1	320B	W12X19	18'-3 3/8"	A992	
1	320C	W12X19	12'-10 9/16"	A992	
1	c320	PL3/8"X5"	0'-11 7/16"	A36	

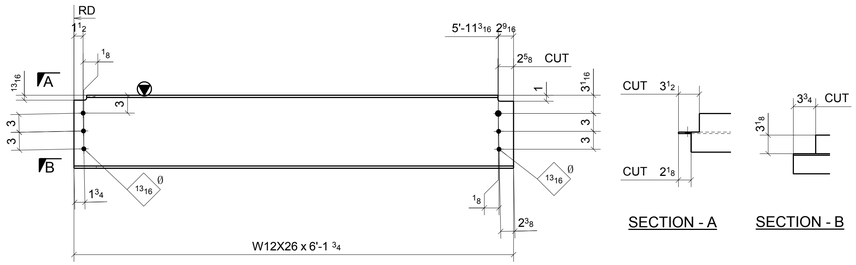
Romac By: Checked By:
Beamline By: Checked By:

A	FOR APPROVAL	06/07/16

Sequence: 3 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: 06/03/2016 Ckd: LJ Date: 06/06/2016
Job No. A16013 BAT: DWG#: 320

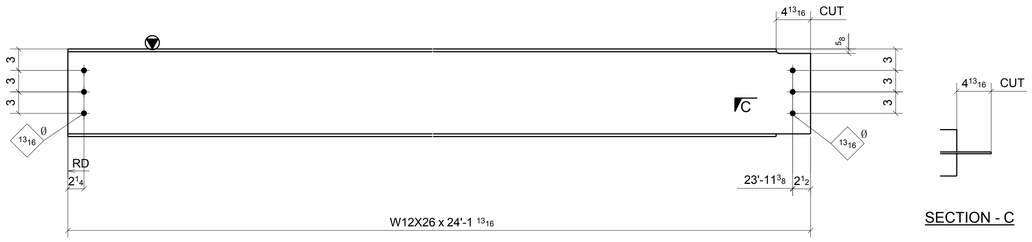


SECTION - A

SECTION - B

2 - BEAMS ~ 321A

LOCATION: (REF: E3A)
ONE @ 3-4.4/W-X
ONE @ 3-4.4/X-Y



SECTION - C

ONE - BEAM ~ 321B

LOCATION: (REF: E3A)
ONE @ 4.5/V-W

SHOP BOLT IN SLOTTED HOLE
NEED "HAND TIGHTEN"

FOR APPROVAL

A	FOR APPROVAL	06/07/16

Sequence: 3 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:

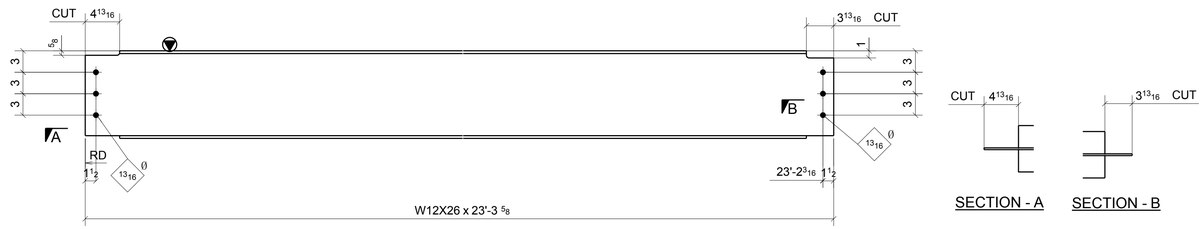
MATERIAL LIST

QTY	MARK	DESCRIPTION	LENGTH	MATERIAL	NOTES
2	321A	W12X26	6'-1 3/4"	A992	
1	321B	W12X26	24'-1 13/16"	A992	

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

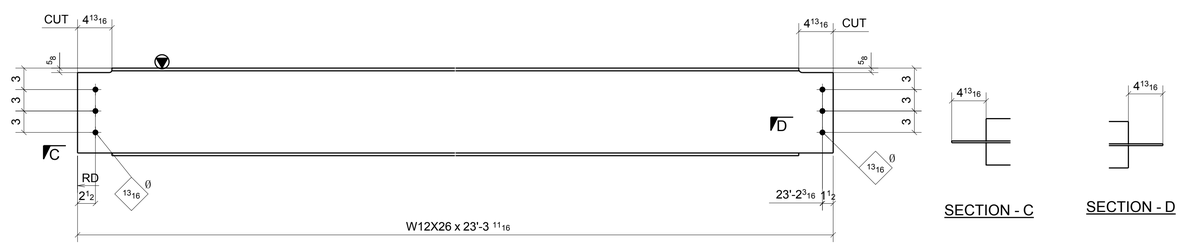
ATLAS IRON WORKS
ST. LOUIS, MO.

Project: WEBSTER UNIVERSITY INTERDISCIPLINARY SCIENCE BUILDING
Customer: PARIC CORPORATION
Owner: WEBSTER UNIVERSITY
Location: WEBSTER GUOVES,MO 63119
Dwn: ZZ Date: 06/03/2016 Ckd: LJ Date: 06/07/2016
Job No. A16013 BAT: DWG#: 321



ONE - BEAM ~ 322A

LOCATION: (REF: E3A)
ONE @ 4.5/X-Y



ONE - BEAM ~ 322B

LOCATION: (REF: E3A)
ONE @ 4.5/W-X

SHOP BOLT IN SLOTTED HOLE
NEED "HAND TIGHTEN"

FOR APPROVAL

MATERIAL LIST

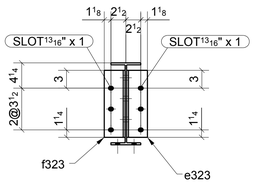
QTY	MARK	DESCRIPTION	LENGTH	MATERIAL	NOTES
1	322A	W12X26	23'-3 5/8"	A992	
1	322B	W12X26	23'-3 11/16"	A992	

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

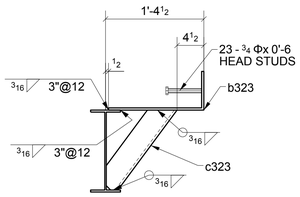
ATLAS IRON WORKS
ST. LOUIS, MO.

A	FOR APPROVAL		06/07/16
Sequence:	3	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:	

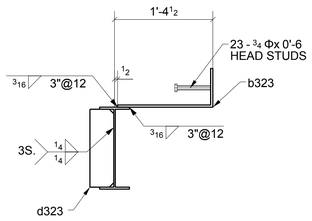
Project: WEBSTER UNIVERSITY INTERDISCIPLINARY SCIENCE BUILDING
Customer: PARIC CORPORATION
Owner: WEBSTER UNIVERSITY
Location: WEBSTER GUOVES,MO 63119
Dwn: ZZ Date: 06/03/2016 Ckd: LJ Date: 06/07/2016
Job No. A16013 BAT: DWG#: 322



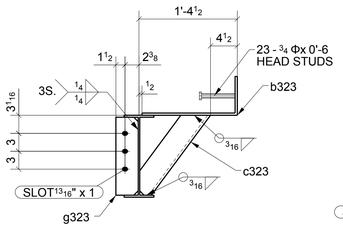
SECTION - A



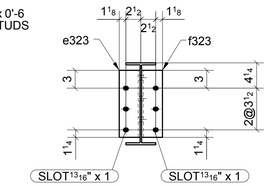
SECTION - B



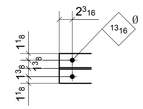
SECTION - C



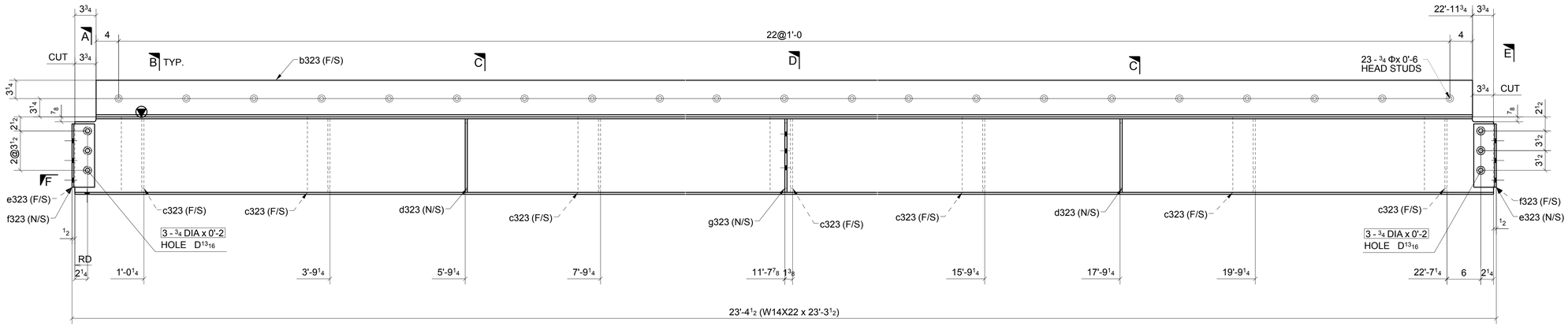
SECTION - D



SECTION - E



SECTION - F



ONE - BEAM ~ 323A

LOCATION: (REF: E3A)
ONE @ 3/W-X

SHOP BOLT IN SLOTTED HOLE
NEED "HAND TIGHTEN"

FOR APPROVAL

MATERIAL LIST

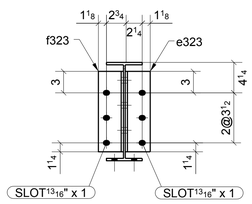
QTY	MARK	DESCRIPTION	LENGTH	MATERIAL	NOTES
1	323A	W14X22	23'-3 1/2"	A992	
1	b323	BPL3/8"X22 1/2"	22'-8"	A36	
7	c323	L4X4X3/8	1'-5 7/16"	A36	
2	d323	PL3/8"X4"	1'-1 1/16"	A36	
2	e323	L4X3-1/2X5/16	0'-11 1/4"	A36	
2	f323	L4X3-1/2X5/16	0'-11 1/4"	A36	
1	g323	PL3/8"X3 3/4"	1'-1 1/16"	A36	
6		3/4" DIA. W/N&W	0'-2"	A325N_TC	
23		3/4" STUD	0'-6"		

A	FOR APPROVAL		06/07/16
Sequence:	3	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:	

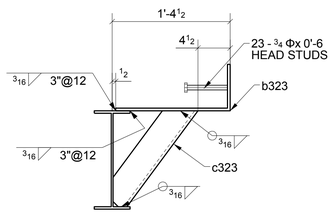
Romac By: Checked By:
Beamline By: Checked By:

ATLAS IRON WORKS
ST. LOUIS, MO.

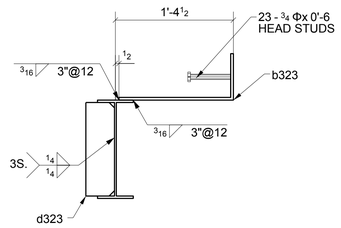
Project: WEBSTER UNIVERSITY INTERDISCIPLINARY SCIENCE BUILDING
Customer: PARIC CORPORATION
Owner: WEBSTER UNIVERSITY
Location: WEBSTER GUOVES,MO 63119
Dwn: ZZ Date: 06/03/2016 Ckd: LJ Date: 06/06/2016
Job No. A16013 BAT: DWG#: 323



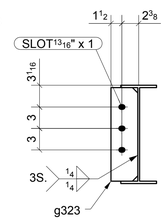
SECTION - A



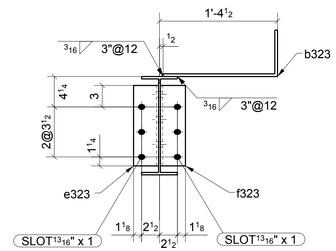
SECTION - B



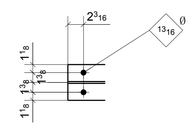
SECTION - C



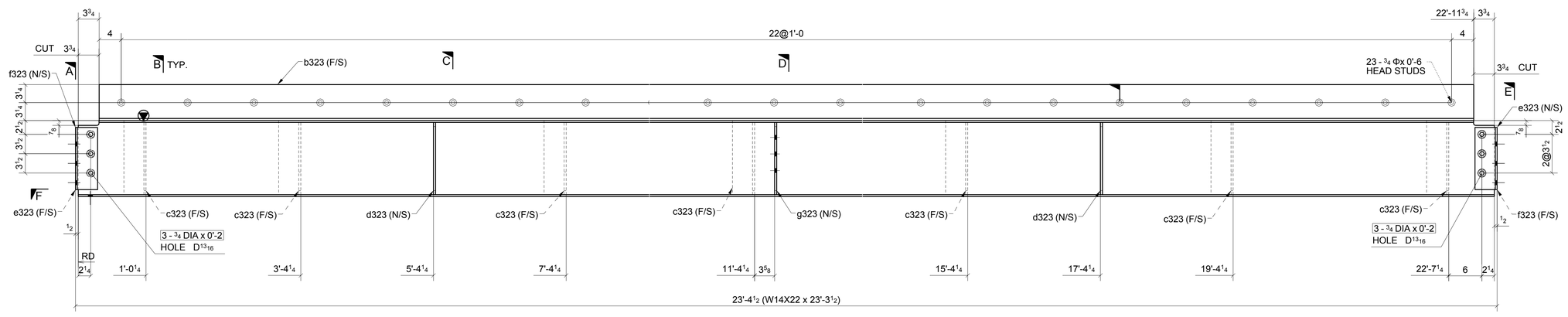
SECTION - D



SECTION - E



SECTION - F



ONE - BEAM ~ 324A

LOCATION: (REF: E3A)
ONE @ 3/X-Y

SHOP BOLT IN SLOTTED HOLE
NEED "HAND TIGHTEN"

FOR APPROVAL

A	FOR APPROVAL			06/07/16	
Sequence:	3		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:		

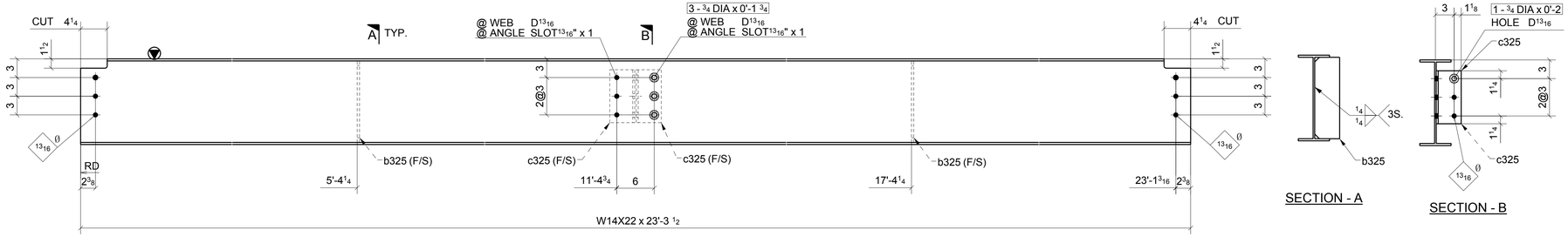
MATERIAL LIST

QTY	MARK	DESCRIPTION	LENGTH	MATERIAL	NOTES
1	324A	W14X22	23'-3 1/2"	A992	
1	b323	BPL3/8"X22 1/2"	22'-8"	A36	
7	c323	L4X4X3/8	1'-5 7/16"	A36	
2	d323	PL3/8"X4"	1'-1 1/16"	A36	
2	e323	L4X3-1/2X5/16	0'-11 1/4"	A36	
2	f323	L4X3-1/2X5/16	0'-11 1/4"	A36	
1	g323	PL3/8"X3 3/4"	1'-1 1/16"	A36	
6		3/4" DIA. W/N&W	0'-2"	A325N_TC	
23		3/4" STUD	0'-6"		

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

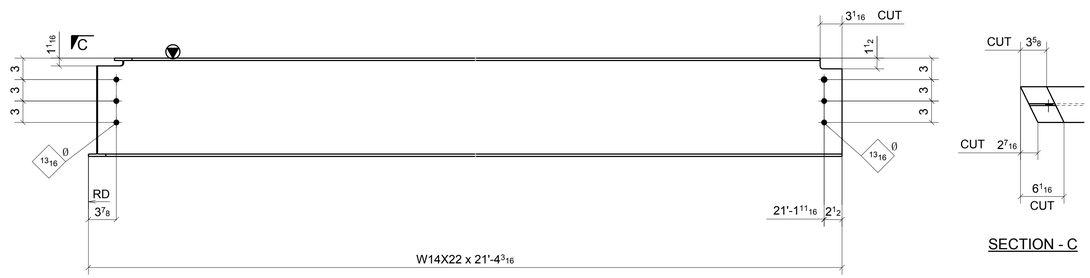
ATLAS IRON WORKS
ST. LOUIS, MO.

Project:	WEBSTER UNIVERSITY INTERDISCIPLINARY SCIENCE BUILDING				
Customer:	PARIC CORPORATION				
Owner:	WEBSTER UNIVERSITY				
Location:	WEBSTER GUOVES,MO 63119				
Dwn:	ZZ	Date: 06/03/2016	Ckd: LJ	Date:	06/06/2016
Job No.	A16013	BAT:		DWG#:	324



ONE - BEAM ~ 325A

LOCATION: (REF: E3A)
ONE @ 3-4.4/X-Y



ONE - BEAM ~ 325B

LOCATION: (REF: E3A)
ONE @ 3-4/A.5-B.3

SHOP BOLT IN SLOTTED HOLE
NEED "HAND TIGHTEN"

FOR APPROVAL

MATERIAL LIST

QTY	MARK	DESCRIPTION	LENGTH	MATERIAL	NOTES
1	325A	W14X22	23'-3 1/2"	A992	
2	b325	PL3/8"X4"	1'-1 1/16"	A36	
2	c325	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	325B	W14X22	21'-4 3/16"	A992	

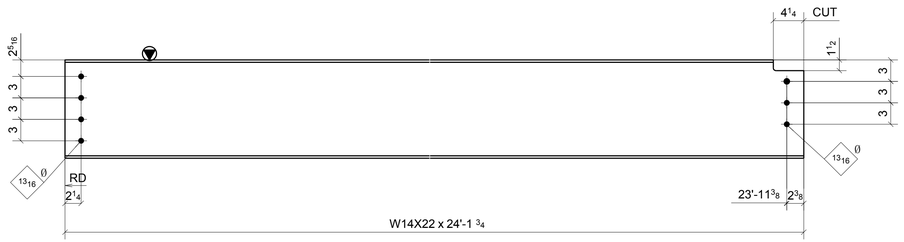
Romac By: Checked By:
Beamline By: Checked By:

A	FOR APPROVAL	06/07/16

Sequence: 3 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:

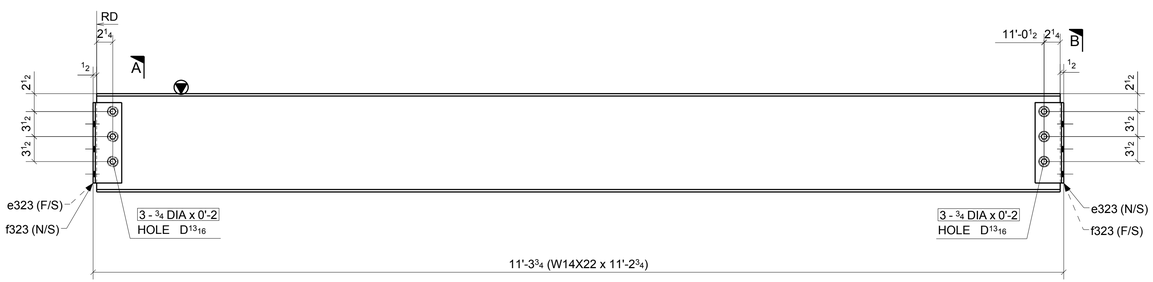
ATLAS IRON WORKS
ST. LOUIS, MO.

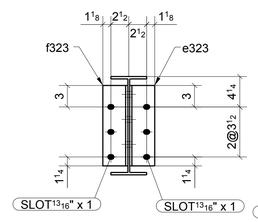
Project: WEBSTER UNIVERSITY INTERDISCIPLINARY SCIENCE BUILDING
Customer: PARIC CORPORATION
Owner: WEBSTER UNIVERSITY
Location: WEBSTER GUOVES,MO 63119
Dwn: ZZ Date: 06/03/2016 Ckd: LJ Date: 06/03/2016
Job No. A16013 BAT: DWG#: 325



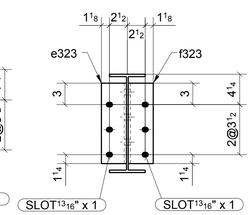
3 - BEAMS ~ 326A

LOCATION: (REF: E3A)
ONE @ 3-4.4/V-W
ONE @ 3-4.4/V-W
ONE @ 3-4.4/V-W





SECTION - A



SECTION - B

ONE - BEAM ~ 326B

LOCATION: (REF: E3A)
ONE @ 4/A.5-B.3

SHOP BOLT IN SLOTTED HOLE
NEED "HAND TIGHTEN"

FOR APPROVAL

MATERIAL LIST

QTY	MARK	DESCRIPTION	LENGTH	MATERIAL	NOTES
3	326A	W14X22	24'-1 3/4"	A992	
1	326B	W14X22	11'-2 3/4"	A992	
2	e323	L4X3-1/2X5/16	0'-11 1/4"	A36	
2	f323	L4X3-1/2X5/16	0'-11 1/4"	A36	
6		3/4" DIA. W/N&W	0'-2"	A325N TC	

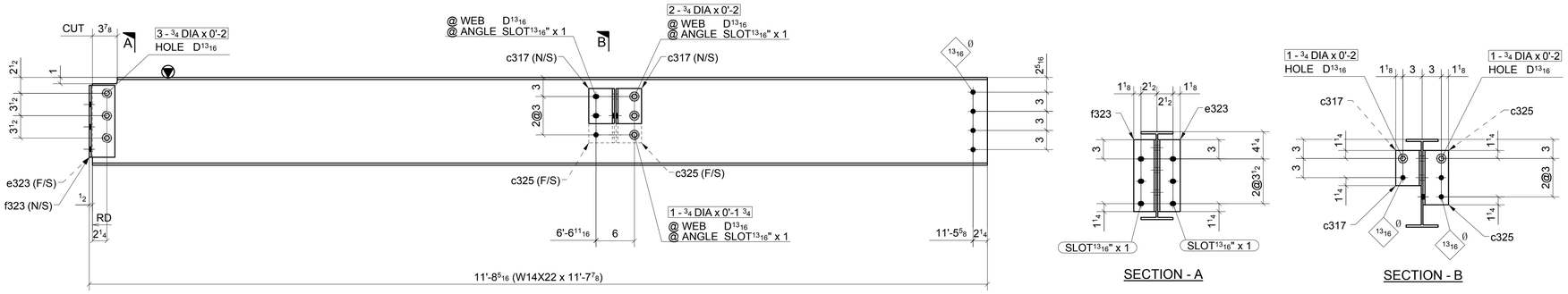
Romac By: Checked By:
Beamline By: Checked By:

A	FOR APPROVAL	06/07/16

Sequence: 3 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: 06/03/2016 Ckd: LJ Date: 06/03/2016
Job No. A16013 BAT: DWG#: 326



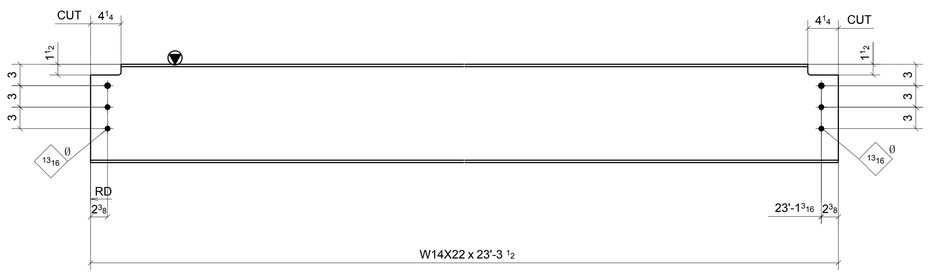
ONE - BEAM ~ 327A

LOCATION: (REF: E3A)

ONE @ 4>/4-A.5

SECTION - A

SECTION - B



6 - BEAMS ~ 327B

LOCATION: (REF: E3A)

ONE @ 3-4.4/W-X
ONE @ 3-4.4/W-X
ONE @ 3-4.4/W-X
ONE @ 3-4.4/X-Y
ONE @ 3-4.4/X-Y
ONE @ 3-4.4/X-Y

SHOP BOLT IN SLOTTED HOLE
NEED "HAND TIGHTEN"

FOR APPROVAL

MATERIAL LIST

QTY	MARK	DESCRIPTION	LENGTH	MATERIAL	NOTES
1	327A	W14X22	11'-7 13/16"	A992	
2	c317	L4X4X5/16	0'-5 1/2"	A36	
2	c325	L4X4X5/16	0'-8 1/2"	A36	
1	e323	L4X3-1/2X5/16	0'-11 1/4"	A36	
1	f323	L4X3-1/2X5/16	0'-11 1/4"	A36	
1		3/4" DIA. W/N&W	0'-1 3/4"	A325N_TC	
2		3/4" DIA. W/N&W	0'-2"	A325N_TC	
2		3/4" DIA. W/N&W	0'-2"	A325N_TC	
3		3/4" DIA. W/N&W	0'-2"	A325N_TC	
6	327B	W14X22	23'-3 1/2"	A992	

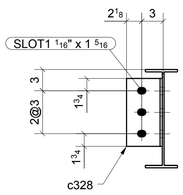
Romac By: Checked By:

Beamline By: Checked By:

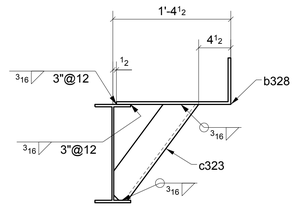
ATLAS IRON WORKS
ST. LOUIS, MO.

A	FOR APPROVAL		06/07/16
Sequence:	3	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:	

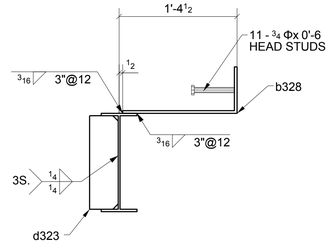
Project: WEBSTER UNIVERSITY INTERDISCIPLINARY SCIENCE BUILDING
Customer: PARIC CORPORATION
Owner: WEBSTER UNIVERSITY
Location: WEBSTER GUOVES,MO 63119
Dwn: ZZ Date: 06/03/2016 Ckd: LJ Date: 06/03/2016
Job No. A16013 BAT: DWG#: 327



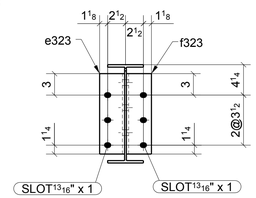
SECTION - A



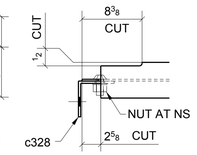
SECTION - B



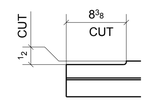
SECTION - C



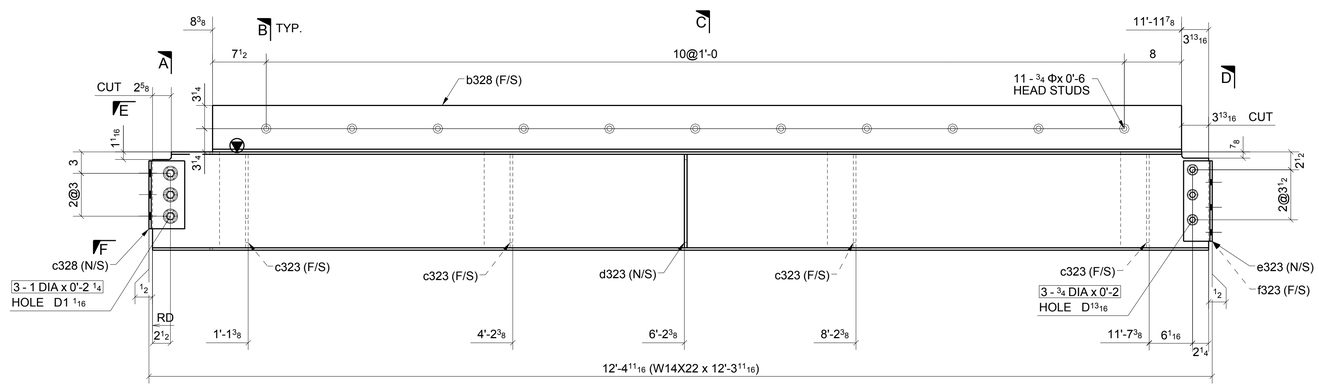
SECTION - D



SECTION - E

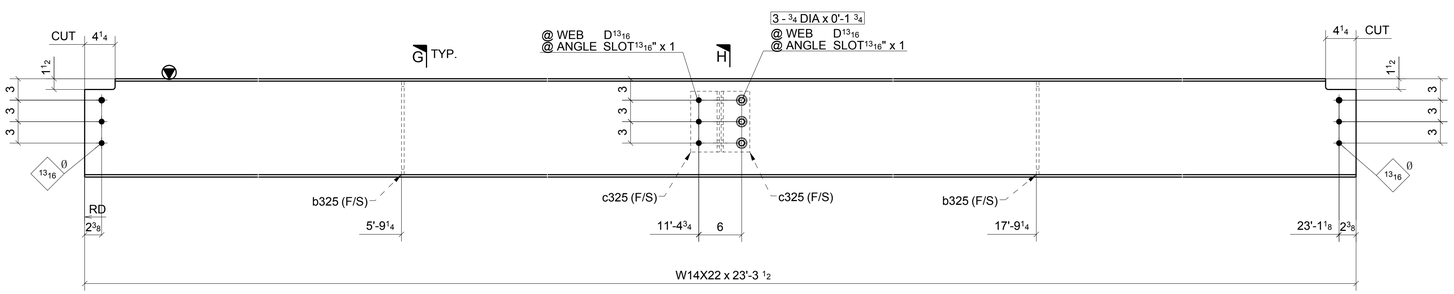


SECTION - F



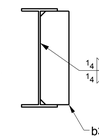
ONE - BEAM ~ 328A

LOCATION: (REF: E3A)
ONE @ 3/V-W

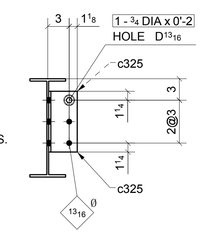


ONE - BEAM ~ 328B

LOCATION: (REF: E3A)
ONE @ 3-4.4/W-X



SECTION - G



SECTION - H

FOR APPROVAL

SHOP BOLT IN SLOTTED HOLE
NEED "HAND TIGHTEN"

MATERIAL LIST

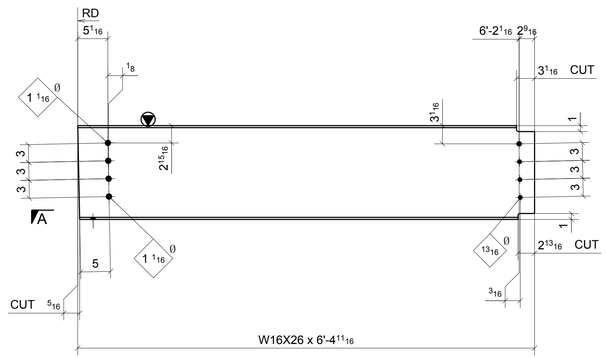
QTY	MARK	DESCRIPTION	LENGTH	MATERIAL	NOTES
1	328A	W14X22	12'-3 11/16"	A992	
1	b328	BPL3/8"X22 1/2"	11'-3 1/2"	A36	
4	c323	L4X4X3/8	1'-5 7/16"	A36	
1	c328	L5X5X5/16	0'-9 1/2"	A36	
1	d323	PL3/8"X4"	1'-1 1/16"	A36	
1	e323	L4X3-1/2X5/16	0'-11 1/4"	A36	
1	f323	L4X3-1/2X5/16	0'-11 1/4"	A36	
3		1" DIA. W/N&W	0'-2 1/4"	A490N_TC	
3		3/4" DIA. W/N&W	0'-2"	A325N_TC	
11		3/4" STUD	0'-6"		
1	328B	W14X22	23'-3 1/2"	A992	
2	b325	PL3/8"X4"	1'-1 1/16"	A36	
2	c325	L4X4X5/16	0'-8 1/2"	A36	
1		3/4" DIA. W/N&W	0'-2"	A325N_TC	
3		3/4" DIA. W/N&W	0'-1 3/4"	A325N_TC	

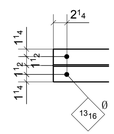
Romac By: Checked By:
Beamline By: Checked By:

ATLAS IRON WORKS
ST. LOUIS, MO.

A	FOR APPROVAL		06/07/16
Sequence:	3	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:	

Project: WEBSTER UNIVERSITY INTERDISCIPLINARY SCIENCE BUILDING
Customer: PARIC CORPORATION
Owner: WEBSTER UNIVERSITY
Location: WEBSTER GUOVES,MO 63119
Dwn: ZZ Date: 06/03/2016 Ckd: LJ Date: 06/07/2016
Job No. A16013 BAT: DWG#: 328

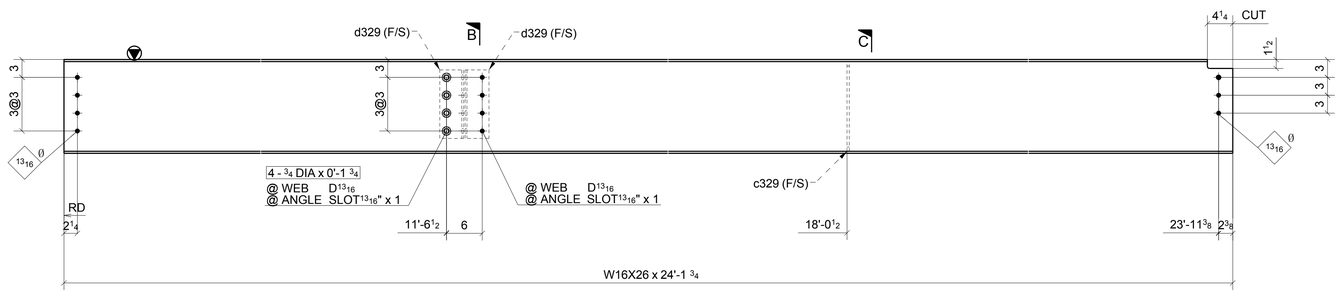


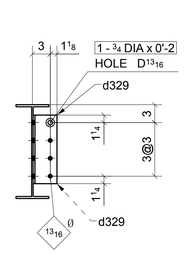


SECTION - A

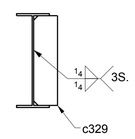
ONE - BEAM ~ 329A

LOCATION: (REF: E3A)
ONE @ 3-4.4/V-W





SECTION - B



SECTION - C

ONE - BEAM ~ 329B

LOCATION: (REF: E3A)
ONE @ 3-4.4/V-W

FOR APPROVAL

SHOP BOLT IN SLOTTED HOLE
NEED "HAND TIGHTEN"

A	FOR APPROVAL		06/07/16
Sequence:	3	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:	

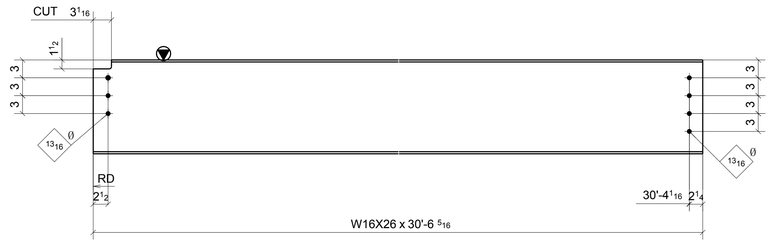
MATERIAL LIST

QTY	MARK	DESCRIPTION	LENGTH	MATERIAL	NOTES
1	329A	W16X26	6'-4 11/16"	A992	
1	329B	W16X26	24'-1 3/4"	A992	
1	c329	PL3/8"X4"	1'-3 1/16"	A36	
2	d329	L4X4X5/16	0'-11 1/2"	A36	
4		3/4" DIA. W/N&W	0'-1 3/4"	A325N_TC	
1		3/4" DIA. W/N&W	0'-2"	A325N_TC	

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

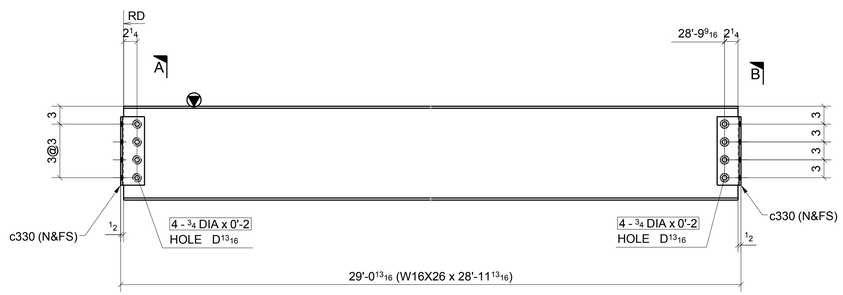
ATLAS IRON WORKS
ST. LOUIS, MO.

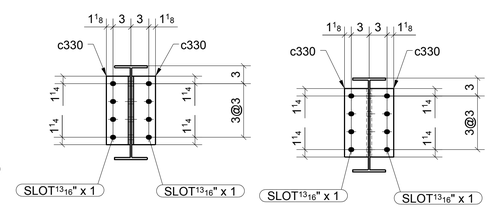
Project: WEBSTER UNIVERSITY INTERDISCIPLINARY SCIENCE BUILDING
Customer: PARIC CORPORATION
Owner: WEBSTER UNIVERSITY
Location: WEBSTER GUOVES,MO 63119
Dwn: ZZ Date: 06/03/2016 Ckd: LJ Date: 06/07/2016
Job No. A16013 BAT: DWG#: 329



3 - BEAMS ~ 330A

LOCATION: CAMBER=3/4" (REF: E3A)
ONE @ 3-4/B.3-C.3
ONE @ 3-4/B.3-C.3
ONE @ 3-4/B.3-C.3

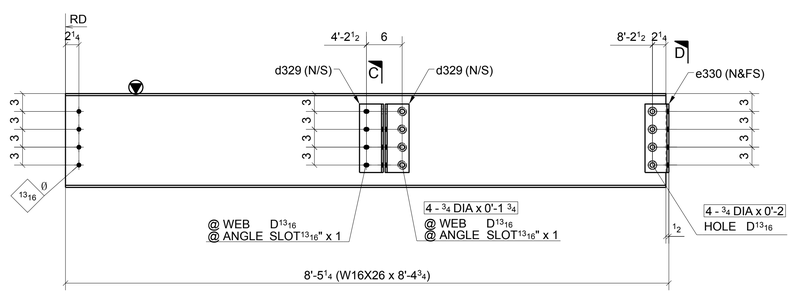


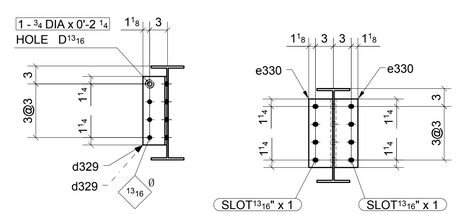


SECTION - A SECTION - B

ONE - BEAM ~ 330B

LOCATION: CAMBER=3/4" (REF: E3A)
ONE @ 4/B.3-C.3





SECTION - C SECTION - D

ONE - BEAM ~ 330C

LOCATION: (REF: E3A)
ONE @ 5/B-B.3

SHOP BOLT IN SLOTTED HOLE
NEED "HAND TIGHTEN"

FOR APPROVAL

A	FOR APPROVAL		06/07/16
Sequence:	3	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:	

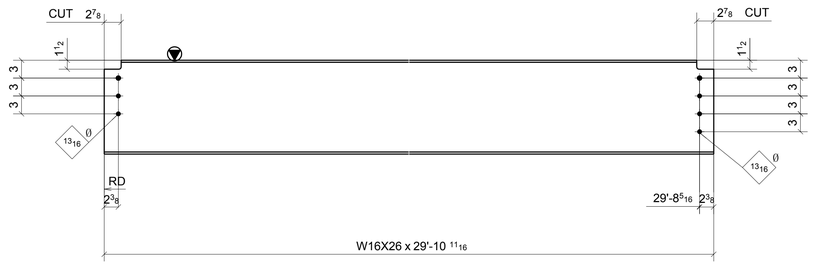
MATERIAL LIST

QTY	MARK	DESCRIPTION	LENGTH	MATERIAL	NOTES
3	330A	W16X26	30'-6 5/16"	A992	
1	330B	W16X26	28'-11 13/16"	A992	
4	c330	L4X4X5/16	0'-11 1/2"	A36	
8		3/4" DIA. W/N&W	0'-2"	A325N TC	
1	330C	W16X26	8'-4 3/4"	A992	
2	d329	L4X4X5/16	0'-11 1/2"	A36	
2	e330	L4X4X5/16	0'-11 1/2"	A36	
4		3/4" DIA. W/N&W	0'-1 3/4"	A325N TC	
4		3/4" DIA. W/N&W	0'-2"	A325N TC	
1		3/4" DIA. W/N&W	0'-2 1/4"	A325N TC	

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

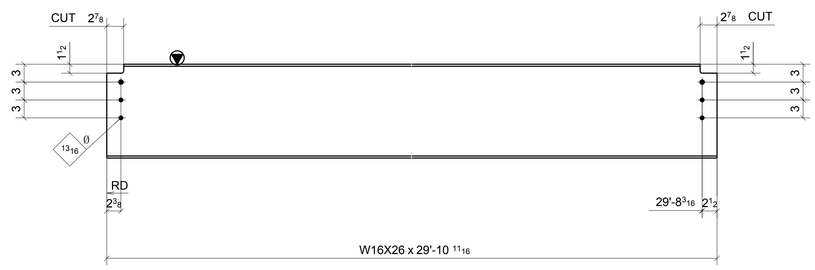
ATLAS IRON WORKS
ST. LOUIS, MO.

Project:	WEBSTER UNIVERSITY INTERDISCIPLINARY SCIENCE BUILDING		
Customer:	PARIC CORPORATION		
Owner:	WEBSTER UNIVERSITY		
Location:	WEBSTER GUOVES,MO 63119		
Dwn: ZZ	Date: 06/03/2016	Ckd: LJ	Date: 06/03/2016
Job No. A16013	BAT:	DWG#: 330	



ONE - BEAM ~ 331A

LOCATION: CAMBER=3/4" (REF: E3A)
ONE @ 4>/B.3-C.3



ONE - BEAM ~ 331B

LOCATION: CAMBER=3/4" (REF: E3A)
ONE @ 4>/B.3-C.3

SHOP BOLT IN SLOTTED HOLE
NEED "HAND TIGHTEN"

FOR APPROVAL

A	FOR APPROVAL	06/07/16

Sequence: 3 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:

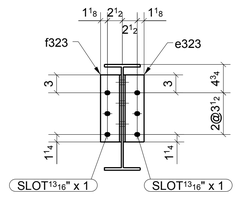
MATERIAL LIST

QTY	MARK	DESCRIPTION	LENGTH	MATERIAL	NOTES
1	331A	W16X26	29'-10 11/16"	A992	
1	331B	W16X26	29'-10 11/16"	A992	

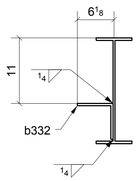
Romac By: Checked By:
Beamline By: Checked By:

ATLAS IRON WORKS
ST. LOUIS, MO.

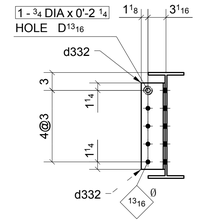
Project: WEBSTER UNIVERSITY INTERDISCIPLINARY SCIENCE BUILDING
Customer: PARIC CORPORATION
Owner: WEBSTER UNIVERSITY
Location: WEBSTER GUOVES,MO 63119
Dwn: ZZ Date: 06/03/2016 Ckd: LJ Date: 06/03/2016
Job No. A16013 BAT: DWG#: 331



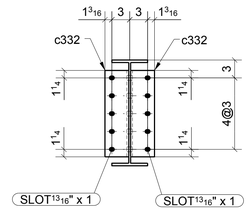
SECTION - A



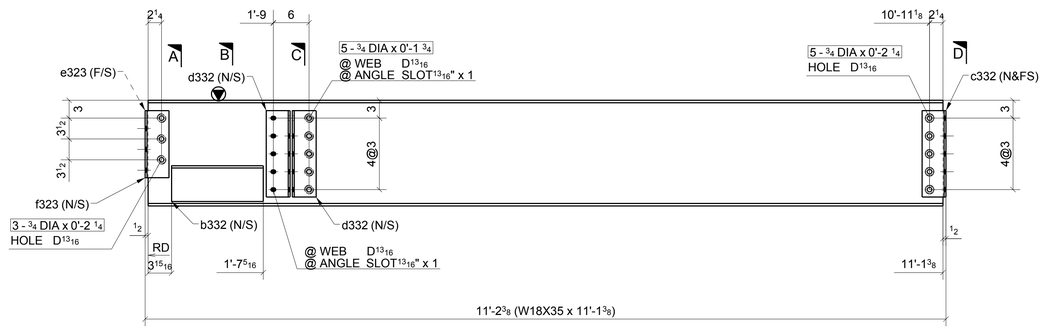
SECTION - B



SECTION - C

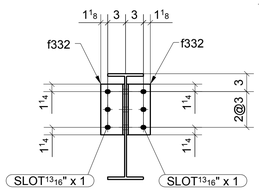


SECTION - D

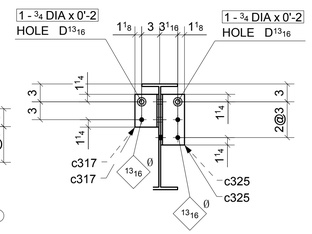


ONE - BEAM ~ 332A

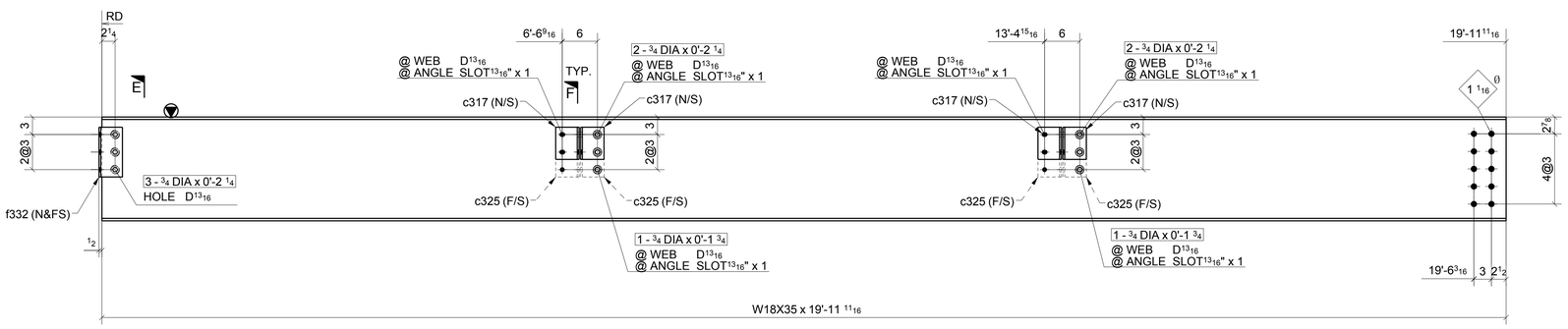
LOCATION: (REF: E3A)
ONE @ 4/A.5-B.3



SECTION - A



SECTION - F



ONE - BEAM ~ 332B

LOCATION: (REF: E3A)
ONE @ <5/B.3

SHOP BOLT IN SLOTTED HOLE
NEED "HAND TIGHTEN"

FOR APPROVAL

MATERIAL LIST

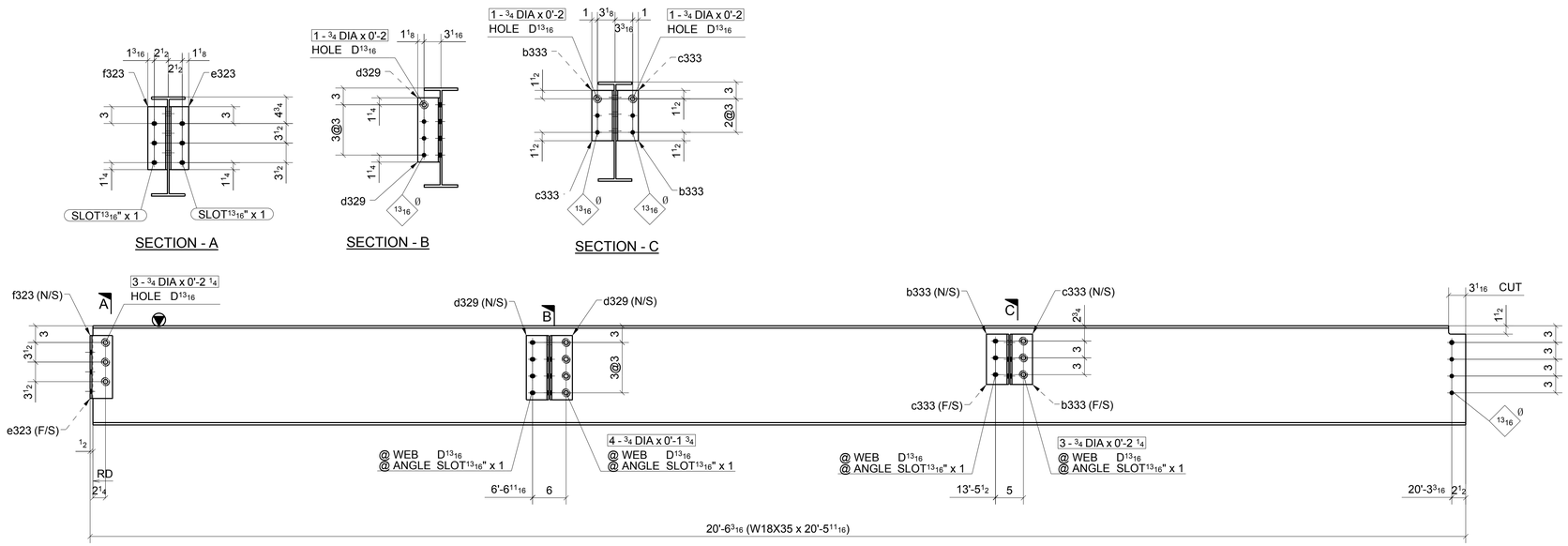
QTY	MARK	DESCRIPTION	LENGTH	MATERIAL	NOTES
1	332A	W18X35	11'-1 3/8"	A992	
1	b332	L6X6X3/8	1'-3 3/8"	A36	
2	c332	L4X4X5/16	1'-2 1/2"	A36	
2	d332	L4X4X5/16	1'-2 1/2"	A36	
1	e323	L4X3-1/2X5/16	0'-11 1/4"	A36	
1	f323	L4X3-1/2X5/16	0'-11 1/4"	A36	
5		3/4" DIA. W/N&W	0'-1 3/4"	A325N_TC	
3		3/4" DIA. W/N&W	0'-2 1/4"	A325N_TC	
5		3/4" DIA. W/N&W	0'-2 1/4"	A325N_TC	
1		3/4" DIA. W/N&W	0'-2 1/4"	A325N_TC	
1	332B	W18X35	19'-11 11/16"	A992	
4	c317	L4X4X5/16	0'-5 1/2"	A36	
4	c325	L4X4X5/16	0'-8 1/2"	A36	
2	f332	L4X4X5/16	0'-8 1/2"	A36	
3		3/4" DIA. W/N&W	0'-2 1/4"	A325N_TC	
2		3/4" DIA. W/N&W	0'-1 3/4"	A325N_TC	
4		3/4" DIA. W/N&W	0'-2"	A325N_TC	
4		3/4" DIA. W/N&W	0'-2 1/4"	A325N_TC	

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

ATLAS IRON WORKS
ST. LOUIS, MO.

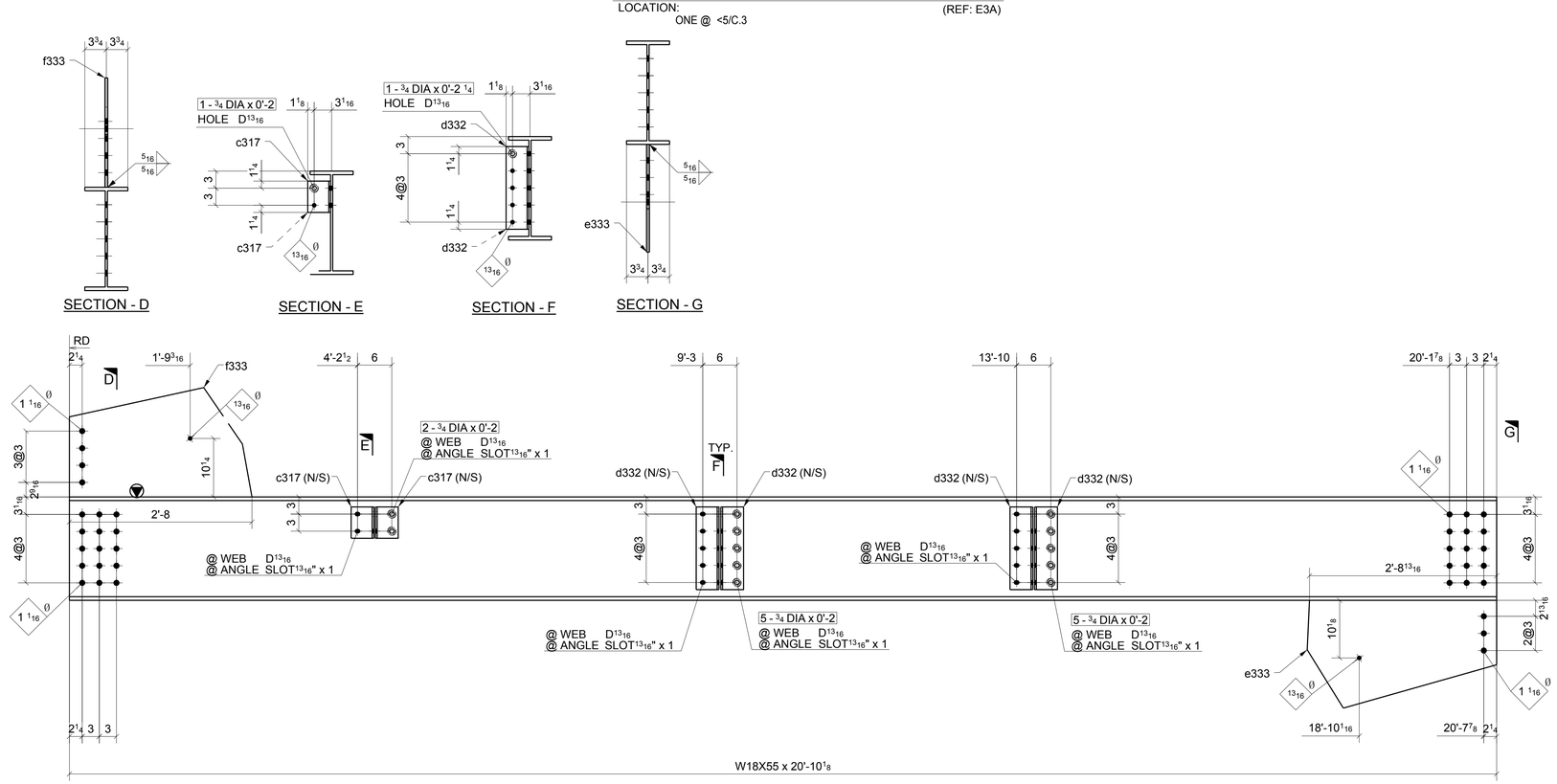
A	FOR APPROVAL		06/07/16
Sequence:	3	Ref. E-Plans:	–
Material:	A992 U.N.O.	Edge Dist.:	1 1/2" U.N.O.
Holes:	13/16"DIA.	Bolts:	NOTED
Cleaning:	NONE		
Paint:	NO		
DFT:		COLOR:	

Project: WEBSTER UNIVERSITY INTERDISCIPLINARY SCIENCE BUILDING
Customer: PARIC CORPORATION
Owner: WEBSTER UNIVERSITY
Location: WEBSTER GUOVES,MO 63119
Dwn: ZZ Date: 06/03/2016 Ckd: LJ Date: 06/07/2016
Job No. A16013 BAT: DWG#: 332



ONE - BEAM ~ 333A

LOCATION: (REF: E3A)
ONE @ <5/C.3



ONE - BEAM ~ 333B

LOCATION: (REF: E3A)
ONE @ 5/B.3-C

SHOP BOLT IN SLOTTED HOLE
NEED "HAND TIGHTEN"

FOR APPROVAL

MATERIAL LIST

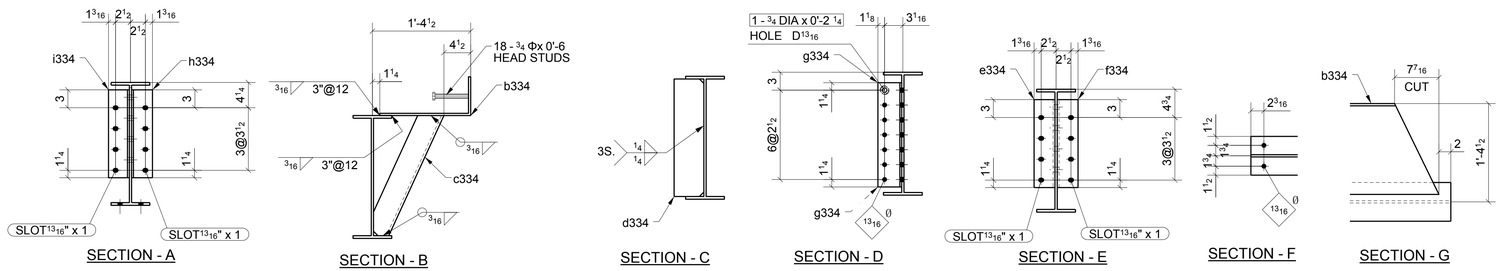
QTY	MARK	DESCRIPTION	LENGTH	MATERIAL	NOTES
1	333A	W18X35	20'-5 5/8"	A992	
2	b333	L4X4X5/16	0'-9"	A36	
2	c333	L4X4X5/16	0'-9"	A36	
2	d329	L4X4X5/16	0'-11 1/2"	A36	
1	e323	L4X3-1/2X5/16	0'-11 1/4"	A36	
1	f323	L4X3-1/2X5/16	0'-11 1/4"	A36	
4		3/4" DIA. W/N&W	0'-1 3/4"	A325N_TC	
3		3/4" DIA. W/N&W	0'-2"	A325N_TC	
6		3/4" DIA. W/N&W	0'-2 1/4"	A325N_TC	
1	333B	W18X55	20'-10 1/8"	A992	
2	c317	L4X4X5/16	0'-5 1/2"	A36	
4	d332	L4X4X5/16	1'-2 1/2"	A36	
1	e333	PL1/2"X18 7/8"	2'-9 3/16"	A572-GR.50	
1	f333	PL1/2"X19 3/16"	2'-8"	A572-GR.50	
2		3/4" DIA. W/N&W	0'-2"	A325N_TC	
1		3/4" DIA. W/N&W	0'-2"	A325N_TC	
2		3/4" DIA. W/N&W	0'-2 1/4"	A325N_TC	
10		3/4" DIA. W/N&W	0'-2"	A325N_TC	

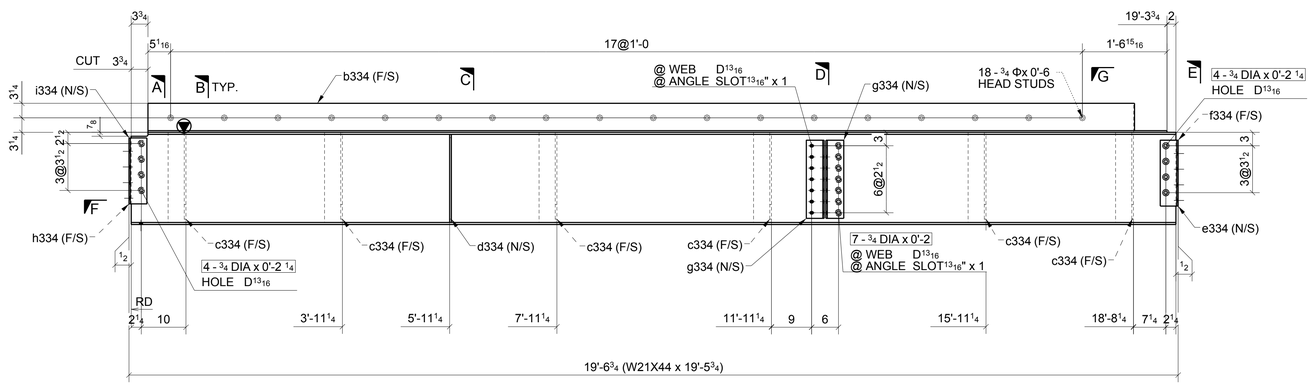
Romac By: Checked By:
Beamline By: Checked By:

ATLAS IRON WORKS
ST. LOUIS, MO.

A	FOR APPROVAL		06/07/16
Sequence:	3	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:	

Project: WEBSTER UNIVERSITY INTERDISCIPLINARY SCIENCE BUILDING
Customer: PARIC CORPORATION
Owner: WEBSTER UNIVERSITY
Location: WEBSTER GUOVES,MO 63119
Dwn: ZZ Date: 06/03/2016 Ckd: LJ Date: 06/06/2016
Job No. A16013 BAT: DWG#: 333





ONE - BEAM ~ 334A

LOCATION: (REF: E3A)
ONE @ 3/Y-Z>

SHOP BOLT IN SLOTTED HOLE
NEED "HAND TIGHTEN"

FOR APPROVAL

MATERIAL LIST

QTY	MARK	DESCRIPTION	LENGTH	MATERIAL	NOTES
1	334A	W21X44	19'-5 3/4"	A992	
1	b334	BPL3/8"X21 3/4"	19'-0"	A36	
6	c334	L4X4X3/8	1'-10 15/16	A36	
1	d334	PL3/8"X5"	1'-7 3/4"	A36	
1	e334	L4X3-1/2X5/16	1'-2 3/4"	A36	
1	f334	L4X3-1/2X5/16	1'-2 3/4"	A36	
2	g334	L4X4X5/16	1'-5 1/2"	A36	
1	h334	L4X3-1/2X5/16	1'-2 3/4"	A36	
1	i334	L4X3-1/2X5/16	1'-2 3/4"	A36	
7		3/4" DIA. W/N&W	0'-2"	A325N_TC	
1		3/4" DIA. W/N&W	0'-2 1/4"	A325N_TC	
8		3/4" DIA. W/N&W	0'-2 1/4"	A325N_TC	
18		3/4" STUD	0'-6"		

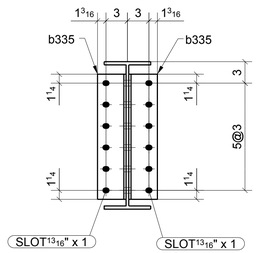
Romac By: Checked By:
Beamline By: Checked By:

ATLAS IRON WORKS
ST. LOUIS, MO.

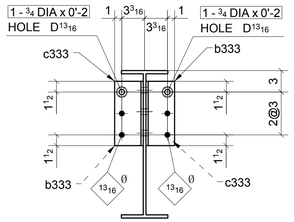
A FOR APPROVAL 06/07/16

Sequence: 3 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:

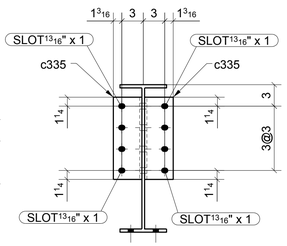
Project: WEBSTER UNIVERSITY INTERDISCIPLINARY SCIENCE BUILDING
Customer: PARIC CORPORATION
Owner: WEBSTER UNIVERSITY
Location: WEBSTER GUOVES,MO 63119
Dwn: ZZ Date: 06/03/2016 Ckd: LJ Date: 06/07/2016
Job No. A16013 BAT: DWG#: 334



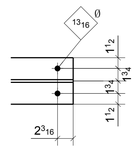
SECTION - A



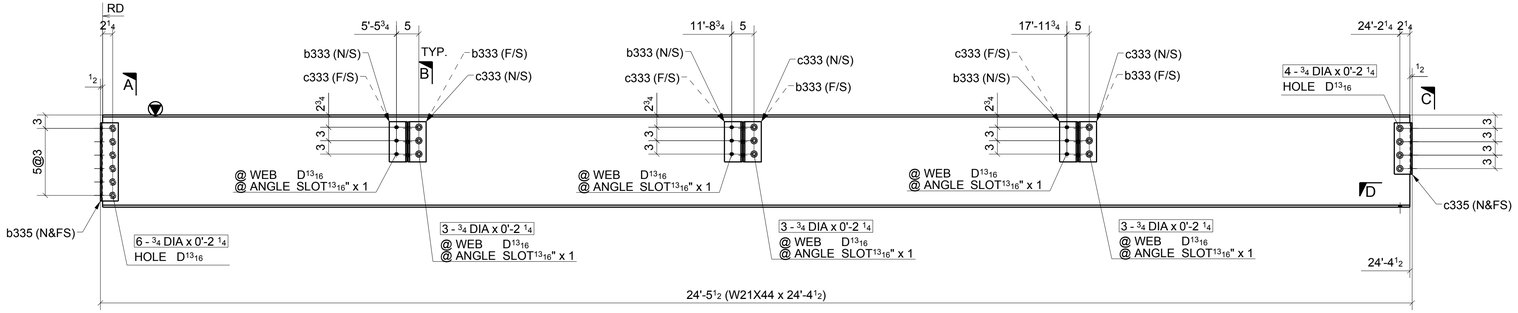
SECTION - B



SECTION - C



SECTION - D



ONE - BEAM ~ 335A

LOCATION: (REF: E3A)
ONE @ 3-4/B.3

SHOP BOLT IN SLOTTED HOLE
NEED "HAND TIGHTEN"

FOR APPROVAL

MATERIAL LIST

QTY	MARK	DESCRIPTION	LENGTH	MATERIAL	NOTES
1	335A	W21X44	24'-4 1/2"	A992	
6	b333	L4X4X5/16	0'-9"	A36	
2	b335	L4X4X5/16	1'-5 1/2"	A36	
6	c333	L4X4X5/16	0'-9"	A36	
2	c335	L4X4X5/16	0'-11 1/2"	A36	
4		3/4" DIA. W/N&W	0'-2 1/4"	A325N_TC	
6		3/4" DIA. W/N&W	0'-2"	A325N_TC	
6		3/4" DIA. W/N&W	0'-2 1/4"	A325N_TC	
9		3/4" DIA. W/N&W	0'-2 1/4"	A325N_TC	

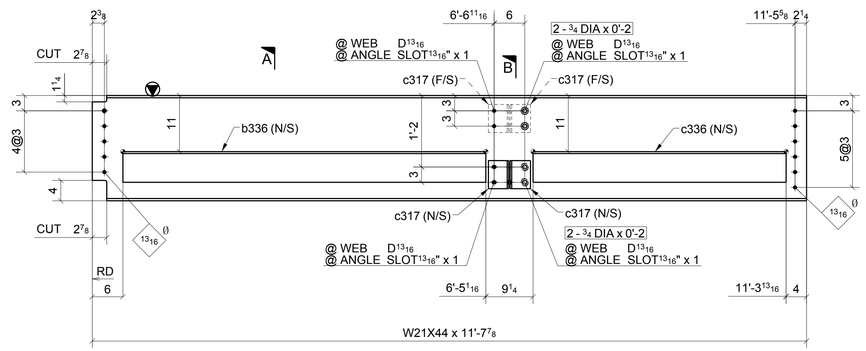
Romac By: Checked By:
Beamline By: Checked By:

A FOR APPROVAL 06/07/16

Sequence: 3 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:

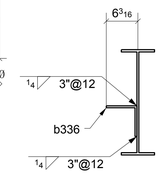
ATLAS IRON WORKS
ST. LOUIS, MO.

Project: WEBSTER UNIVERSITY INTERDISCIPLINARY SCIENCE BUILDING
Customer: PARIC CORPORATION
Owner: WEBSTER UNIVERSITY
Location: WEBSTER GUOVES,MO 63119
Dwn: ZZ Date: 06/03/2016 Ckd: LJ Date: 06/03/2016
Job No. A16013 BAT: DWG#: 335

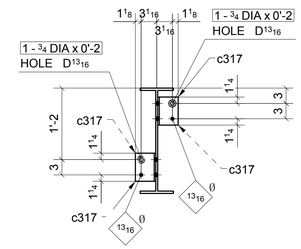


ONE - BEAM ~ 336A

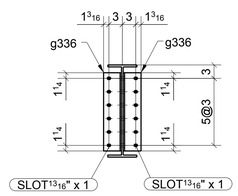
LOCATION: (REF: E3A)
ONE @ 4>/A.5-B.3



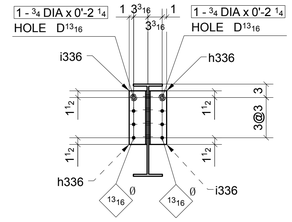
SECTION - A



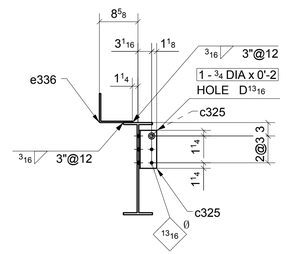
SECTION - B



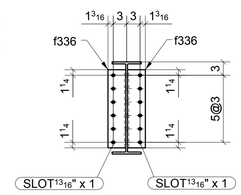
SECTION - C



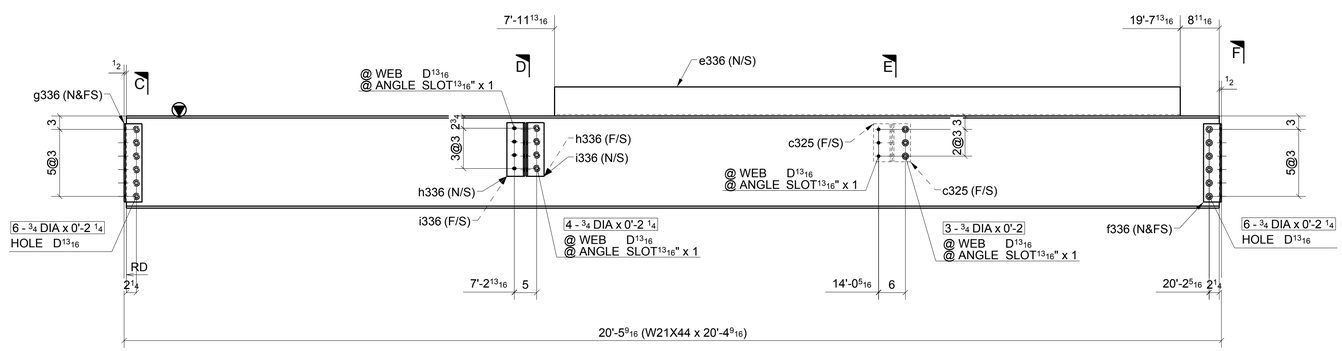
SECTION - D



SECTION - E



SECTION - F



ONE - BEAM ~ 336B

LOCATION: (REF: E3A)
ONE @ 5/C-D

SHOP BOLT IN SLOTTED HOLE
NEED "HAND TIGHTEN"

FOR APPROVAL

MATERIAL LIST

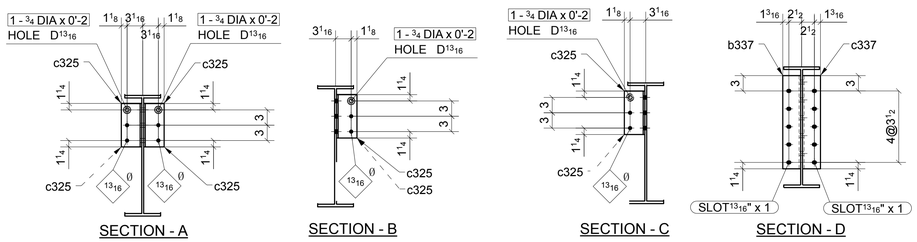
QTY	MARK	DESCRIPTION	LENGTH	MATERIAL	NOTES
1	336A	W21X44	11'-7 13/16"	A992	
1	b336	L6X6X3/8	5'-11 1/16"	A36	
4	c317	L4X4X5/16	0'-5 1/2"	A36	
1	c336	L6X6X3/8	4'-1 9/16"	A36	
2		3/4" DIA. W/N&W	0'-2"	A325N_TC	
4		3/4" DIA. W/N&W	0'-2"	A325N_TC	
1	336B	W21X44	20'-4 1/2"	A992	
2	c325	L4X4X5/16	0'-8 1/2"	A36	
1	e336	BPL5/16""12"1/2	11'-8"	A36	
2	f336	L4X4X5/16	1'-5 1/2"	A36	
2	g336	L4X4X5/16	1'-5 1/2"	A36	
2	h336	L4X4X5/16	1'-0"	A36	
2	i336	L4X4X5/16	1'-0"	A36	
1		3/4" DIA. W/N&W	0'-2"	A325N_TC	
3		3/4" DIA. W/N&W	0'-2"	A325N_TC	
4		3/4" DIA. W/N&W	0'-2 1/4"	A325N_TC	
2		3/4" DIA. W/N&W	0'-2 1/4"	A325N_TC	
12		3/4" DIA. W/N&W	0'-2 1/4"	A325N_TC	

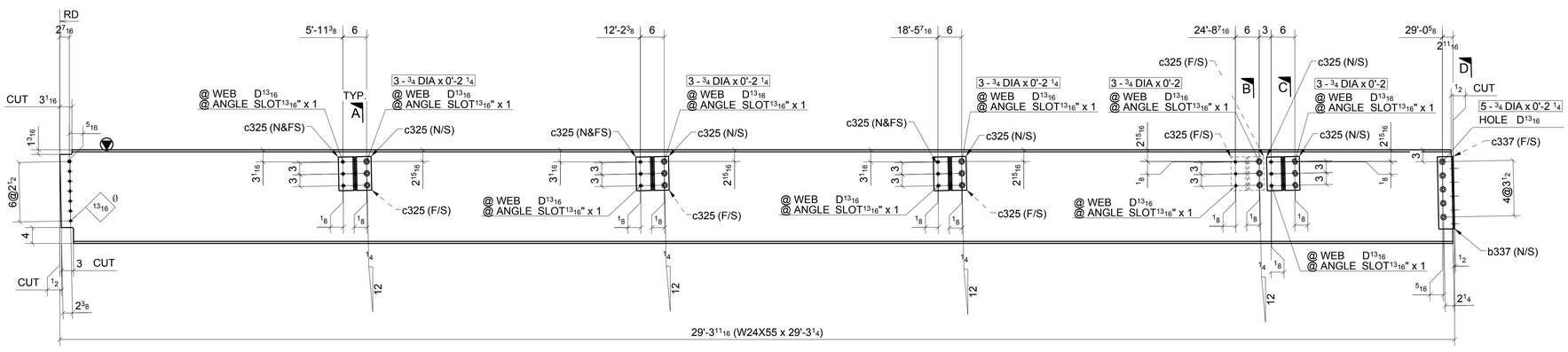
Romac By: Checked By:
Beamline By: Checked By:

ATLAS IRON WORKS
ST. LOUIS, MO.

A	FOR APPROVAL		06/07/16
Sequence:	3	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:	

Project: WEBSTER UNIVERSITY INTERDISCIPLINARY SCIENCE BUILDING
Customer: PARIC CORPORATION
Owner: WEBSTER UNIVERSITY
Location: WEBSTER GUOVES,MO 63119
Dwn: ZZ Date: 06/03/2016 Ckd: LJ Date: 06/07/2016
Job No. A16013 BAT: DWG#: 336





ONE - BEAM ~ 337A

LOCATION: (REF: E3A)
ONE @ 3-4.4/Z

SHOP BOLT IN SLOTTED HOLE
NEED "HAND TIGHTEN"

FOR APPROVAL

MATERIAL LIST

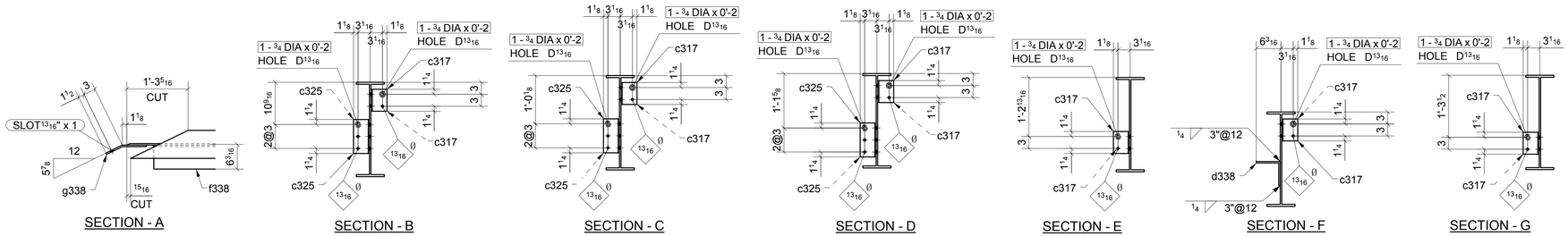
QTY	MARK	DESCRIPTION	LENGTH	MATERIAL	NOTES
1	337A	W24X55	29'-3 1/4"	A992	
1	b337	L4X3-1/2X5/16	1'-6 1/4"	A36	
16	c325	L4X4X5/16	0'-8 1/2"	A36	
1	c337	L4X3-1/2X5/16	1'-6 1/4"	A36	
5		3/4" DIA. W/N&W	0'-2 1/4"	A325N_TC	
6		3/4" DIA. W/N&W	0'-2"	A325N_TC	
8		3/4" DIA. W/N&W	0'-2"	A325N_TC	
9		3/4" DIA. W/N&W	0'-2 1/4"	A325N_TC	

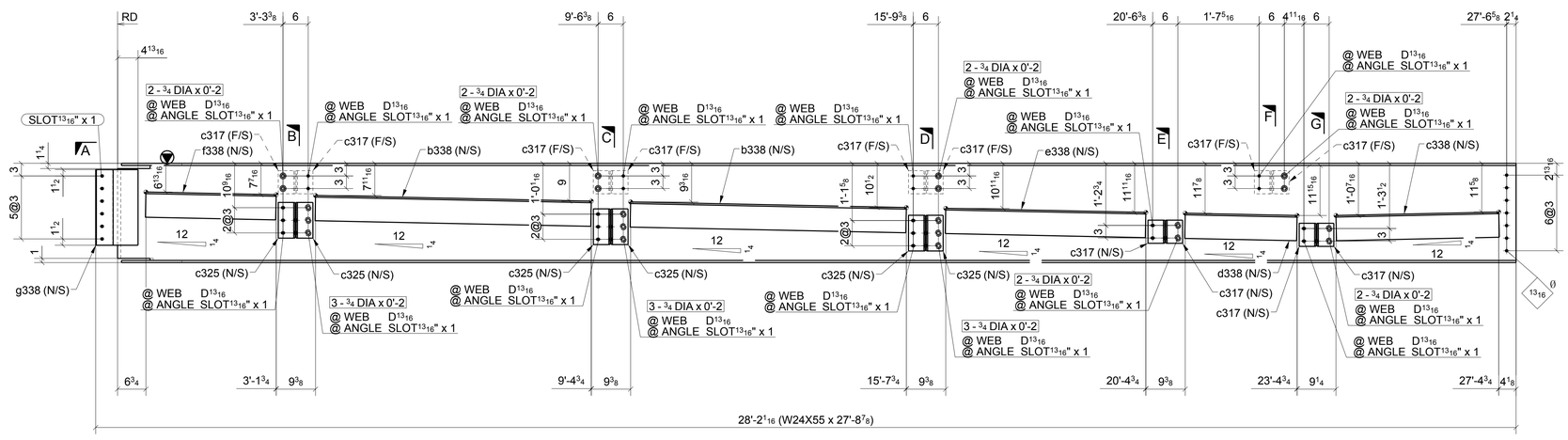
A	FOR APPROVAL		06/07/16
Sequence:	3	Ref. E-Plans:	–
Material:	A992 U.N.O.	Edge Dist.:	1 1/2" U.N.O.
Holes:	13/16"DIA.	Bolts:	NOTED
Cleaning:	NONE		
Paint:	NO		
DFT:		COLOR:	

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: 06/03/2016 Ckd: LJ Date: 06/03/2016
Job No. A16013 BAT: DWG#: 337





ONE - BEAM ~ 338A

LOCATION:
ONE @ 3-4>/4-A.5

(REF: E3A)

SHOP BOLT IN SLOTTED HOLE
NEED "HAND TIGHTEN"

FOR APPROVAL

MATERIAL LIST

QTY	MARK	DESCRIPTION	LENGTH	MATERIAL	NOTES
1	338A	W24X55	27'-8 7/8"	A992	
2	b338	L6X6X3/8	5'-5 5/8"	A36	
12	c317	L4X4X5/16	0'-5 1/2"	A36	
6	c325	L4X4X5/16	0'-8 1/2"	A36	
1	c338	L6X6X3/8	3'-2 3/4"	A36	
1	d338	L6X6X3/8	2'-2 5/8"	A36	
1	e338	L6X6X3/8	3'-11 5/8"	A36	
1	f338	L6X6X3/8	2'-7"	A36	
1	g338	BPL3/8"X10 1/2"	1'-6"	A36	
9		3/4" DIA. W/N&W	0'-2"	A325N_TC	
9		3/4" DIA. W/N&W	0'-2"	A325N_TC	
12		3/4" DIA. W/N&W	0'-2"	A325N_TC	

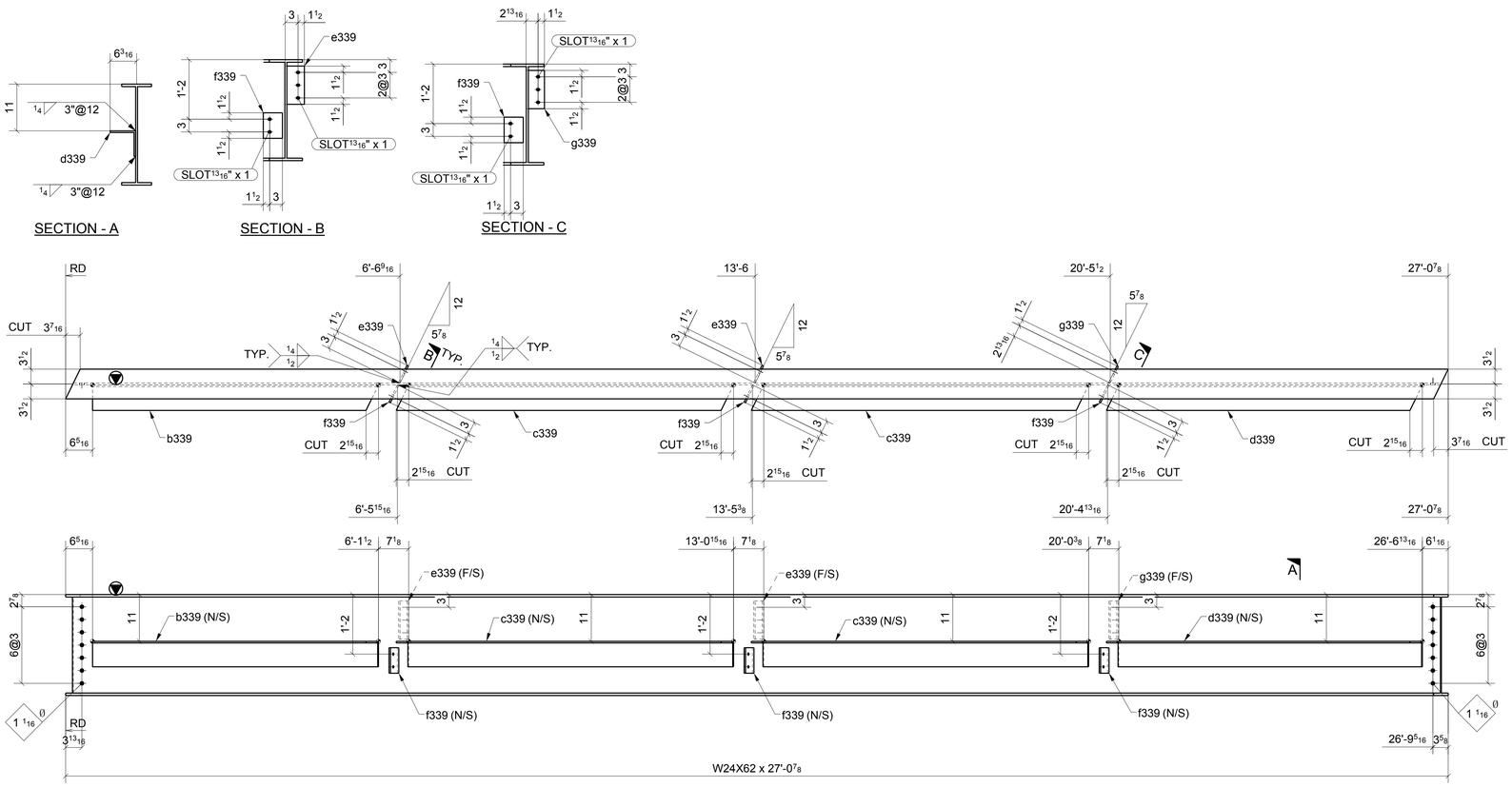
Romac By: Checked By:
Beamline By: Checked By:

A	FOR APPROVAL	06/07/16

Sequence: 3 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: 06/03/2016 Ckd: LJ Date: 06/06/2016
Job No. A16013 BAT: DWG#: 338



ONE - BEAM ~ 339A

LOCATION: (REF: E3A)
ONE @ 3-4/4-B.3

SHOP BOLT IN SLOTTED HOLE
NEED "HAND TIGHTEN"

FOR APPROVAL

MATERIAL LIST

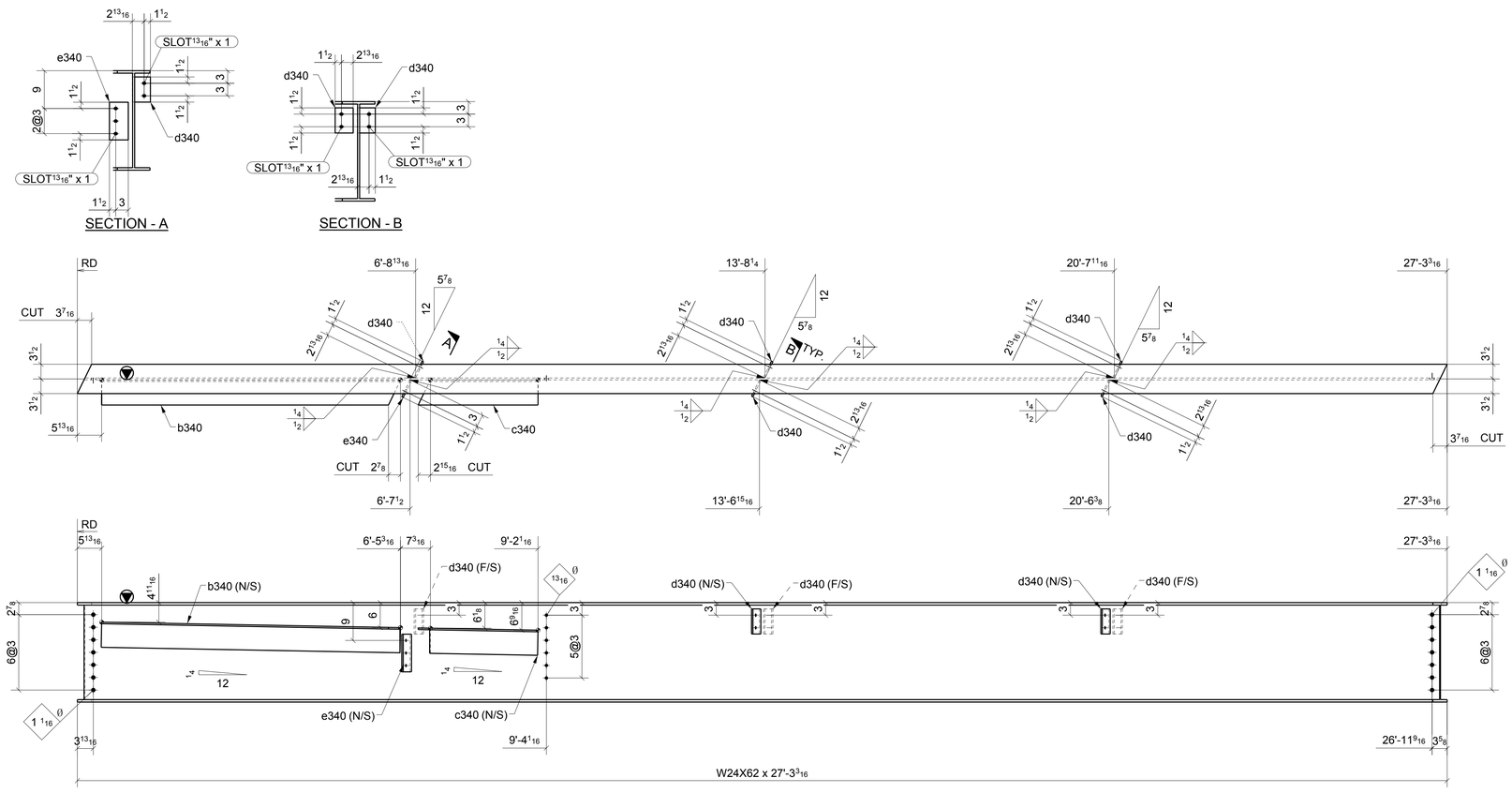
QTY	MARK	DESCRIPTION	LENGTH	MATERIAL	NOTES
1	339A	W24X62	27'-0 7/8"	A992	
1	b339	L6X6X3/8	5'-7 3/16"	A36	
2	c339	L6X6X3/8	6'-7 1/4"	A36	
1	d339	L6X6X3/8	6'-2 1/4"	A36	
2	e339	PL3/8"X4 1/2"	0'-9"	A36	
3	f339	PL3/8"X4 1/2"	0'-6"	A36	
1	g339	PL3/8"X4 5/16"	0'-9"	A36	

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

A	FOR APPROVAL		06/07/16
Sequence:	3	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: 06/03/2016 Ckd: LJ Date: 06/03/2016
Job No. A16013 BAT: DWG#: 339



ONE - BEAM ~ 340A

LOCATION: (REF: E3A)
ONE @ 3-4/4-A.5

FOR APPROVAL

SHOP BOLT IN SLOTTED HOLE
NEED "HAND TIGHTEN"

MATERIAL LIST

QTY	MARK	DESCRIPTION	LENGTH	MATERIAL	NOTES
1	340A	W24X62	27'-3 3/16"	A992	
1	b340	L6X6X3/8	5'-11 3/8"	A36	
1	c340	L6X6X3/8	2'-4 5/8"	A36	
5	d340	PL3/8"X4 5/16"	0'-6"	A36	
1	e340	PL3/8"X4 1/2"	0'-9"	A36	

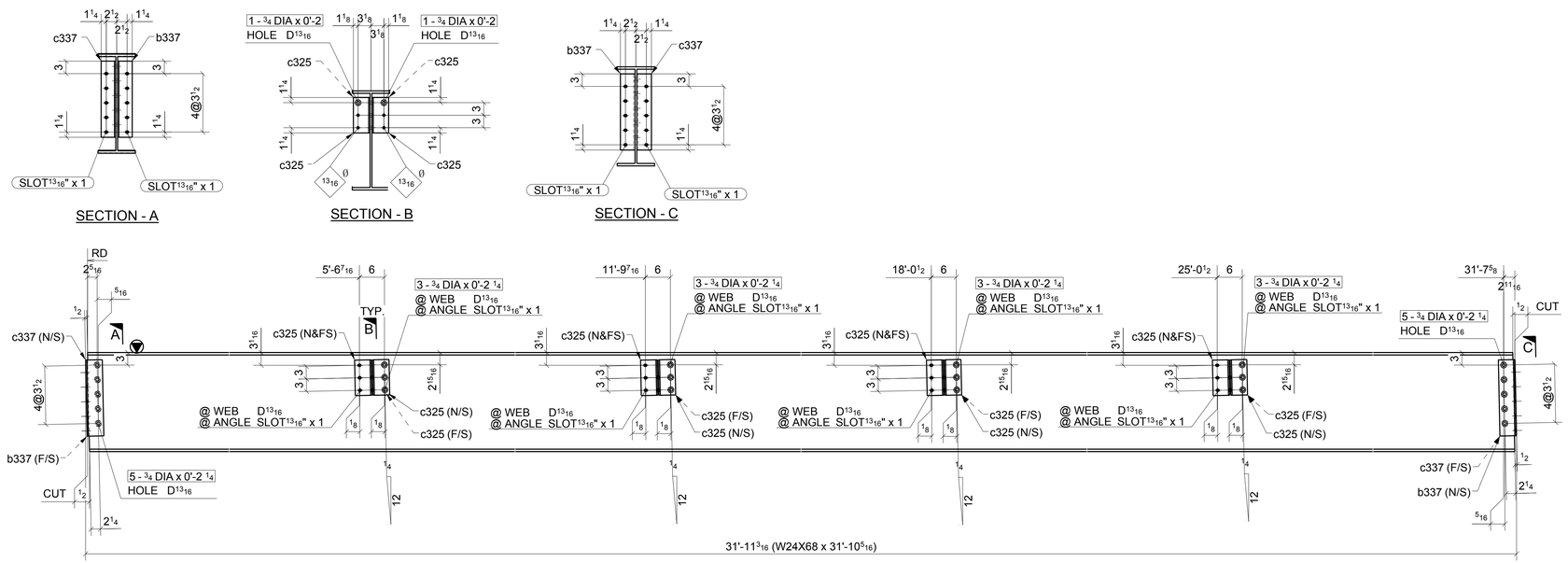
Romac By: Checked By:
Beamline By: Checked By:

A	FOR APPROVAL	06/07/16

Sequence: 3 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: 06/03/2016 Ckd: LJ Date: 06/06/2016
Job No. A16013 BAT: DWG#: 340



ONE - BEAM ~ 341A

LOCATION: (REF: E3A)
ONE @ 3-4.5/Y

SHOP BOLT IN SLOTTED HOLE
NEED "HAND TIGHTEN"

FOR APPROVAL

MATERIAL LIST

QTY	MARK	DESCRIPTION	LENGTH	MATERIAL	NOTES
1	341A	W24X68	31'-10 5/16"	A992	
2	b337	L4X3-1/2X5/16	1'-6 1/4"	A36	
16	c325	L4X4X5/16	0'-8 1/2"	A36	
2	c337	L4X3-1/2X5/16	1'-6 1/4"	A36	
8		3/4" DIA. W/N&W	0'-2"	A325N_TC	
10		3/4" DIA. W/N&W	0'-2 1/4"	A325N_TC	
12		3/4" DIA. W/N&W	0'-2 1/4"	A325N_TC	

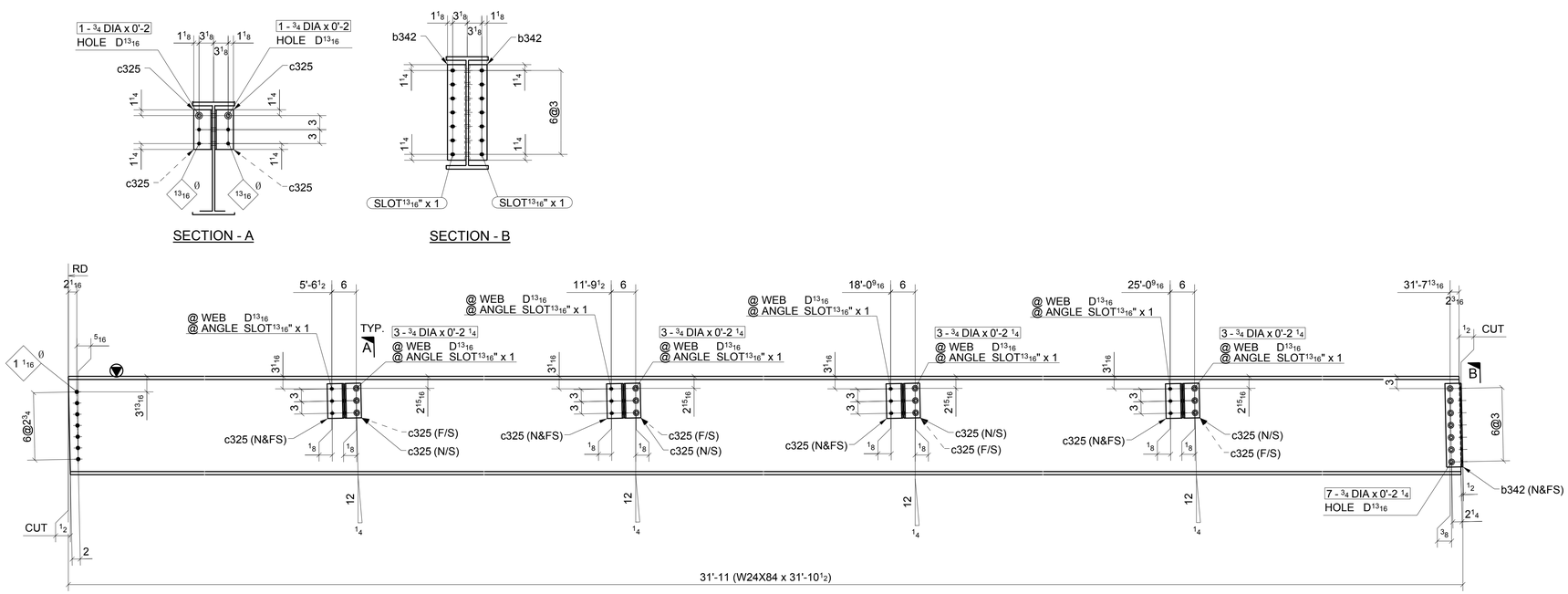
Romac By: Checked By:
Beamline By: Checked By:

A	FOR APPROVAL	06/07/16

Sequence: 3 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: 06/03/2016 Ckd: LJ Date: 06/07/2016
Job No. A16013 BAT: DWG#: 341



ONE - BEAM ~ 342A

LOCATION: (REF: E3A)
ONE @ 3-4.5/W

SHOP BOLT IN SLOTTED HOLE
NEED "HAND TIGHTEN"

FOR APPROVAL

MATERIAL LIST

QTY	MARK	DESCRIPTION	LENGTH	MATERIAL	NOTES
1	342A	W24X84	31'-10 1/2"	A992	
2	b342	L4X4X5/16	1'-8 1/2"	A36	
16	c325	L4X4X5/16	0'-8 1/2"	A36	
7		3/4" DIA. W/N&W	0'-2 1/4"	A325N TC	
8		3/4" DIA. W/N&W	0'-2"	A325N TC	
12		3/4" DIA. W/N&W	0'-2 1/4"	A325N TC	

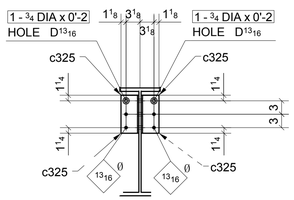
Romac By: Checked By:
Beamline By: Checked By:

A	FOR APPROVAL	06/07/16

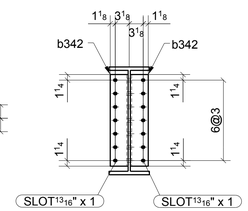
Sequence: 3 Ref. E-Plans: --
Material: A992 U.N.O. Edge Dist.: 1 1/2" U.N.O.
Holes: 13/16"DIA. Bolts: NOTED
Cleaning: NONE
Paint: NO
DFT: COLOR:

ATLAS IRON WORKS
ST. LOUIS, MO.

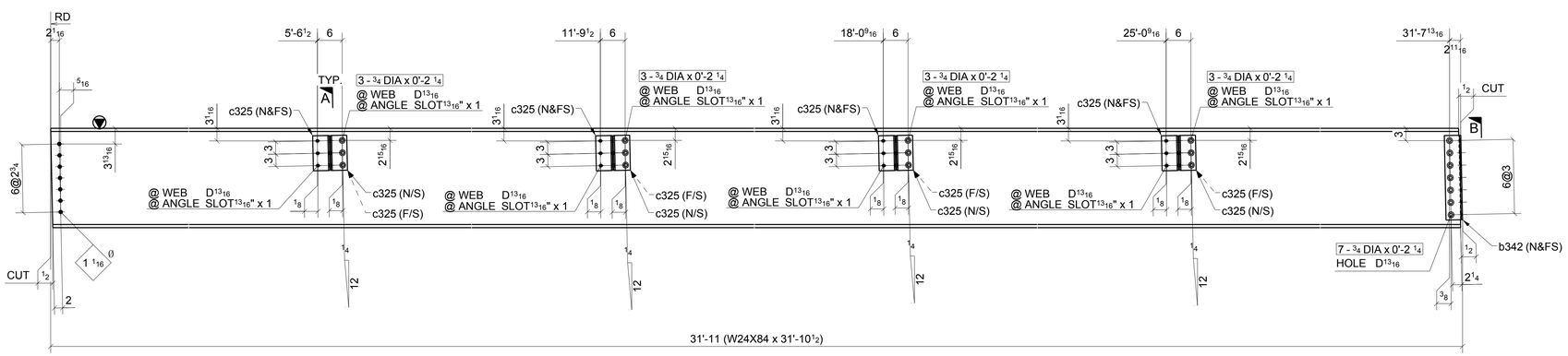
Project: WEBSTER UNIVERSITY INTERDISCIPLINARY SCIENCE BUILDING
Customer: PARIC CORPORATION
Owner: WEBSTER UNIVERSITY
Location: WEBSTER GUOVES,MO 63119
Dwn: ZZ Date: 06/03/2016 Ckd: LJ Date: 06/03/2016
Job No. A16013 BAT: DWG#: 342



SECTION - A



SECTION - B



ONE - BEAM ~ 343A

LOCATION: (REF: E3A)
ONE @ 3-4.5/X

SHOP BOLT IN SLOTTED HOLE
NEED "HAND TIGHTEN"

FOR APPROVAL

MATERIAL LIST

QTY	MARK	DESCRIPTION	LENGTH	MATERIAL	NOTES
1	343A	W24X84	31'-10 1/2"	A992	
2	b342	L4X4X5/16	1'-8 1/2"	A36	
16	c325	L4X4X5/16	0'-8 1/2"	A36	
7		3/4" DIA. W/N&W	0'-2 1/4"	A325N TC	
8		3/4" DIA. W/N&W	0'-2"	A325N TC	
12		3/4" DIA. W/N&W	0'-2 1/4"	A325N TC	

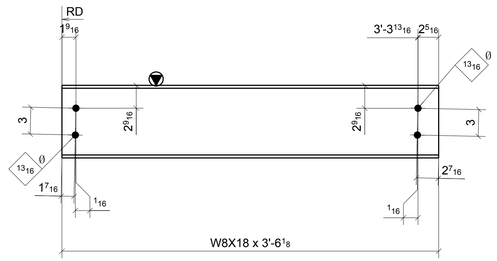
Romac By: Checked By:
Beamline By: Checked By:

A	FOR APPROVAL	06/07/16

Sequence: 3 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.

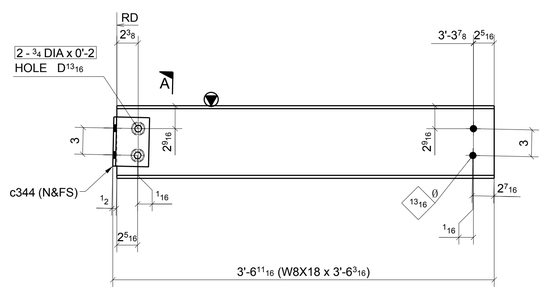
Project: WEBSTER UNIVERSITY INTERDISCIPLINARY SCIENCE BUILDING
Customer: PARIC CORPORATION
Owner: WEBSTER UNIVERSITY
Location: WEBSTER GUOVES,MO 63119
Dwn: ZZ Date: 06/03/2016 Ckd: LJ Date: 06/06/2016
Job No. A16013 BAT: DWG#: 343

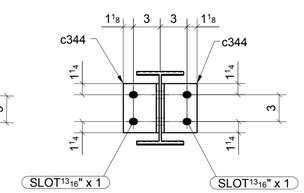


ONE - BEAM ~ 344A

LOCATION:
ONE @ 4.5-4.6/Y

(REF: E3A)





SECTION - A

2 - BEAMS ~ 344B

LOCATION:
ONE @ 4.5-4.6/W
ONE @ 4.5-4.6/X

(REF: E3A)

SHOP BOLT IN SLOTTED HOLE
NEED "HAND TIGHTEN"

FOR APPROVAL

A	FOR APPROVAL		06/07/16
Sequence:	3	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:	

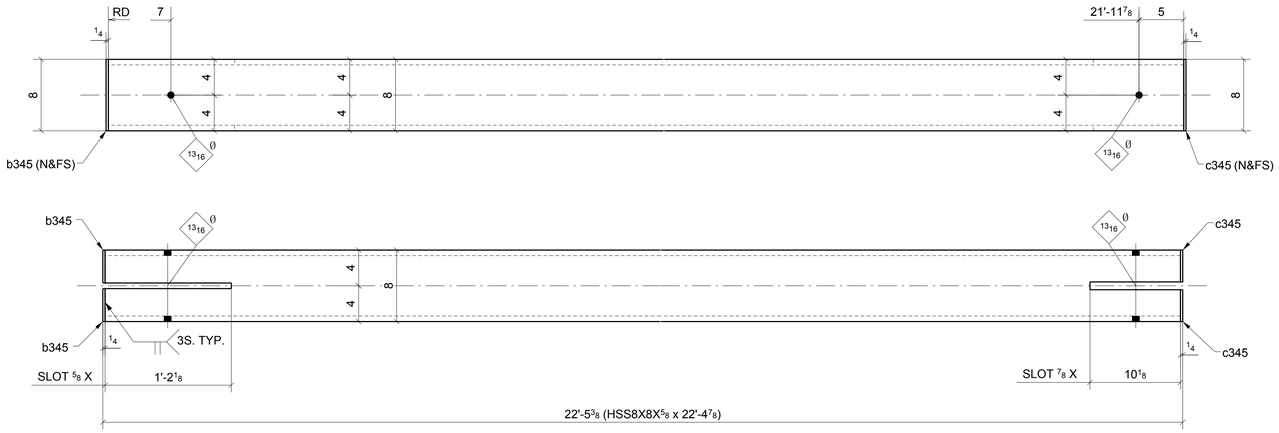
MATERIAL LIST

QTY	MARK	DESCRIPTION	LENGTH	MATERIAL	NOTES
1	344A	W8X18	3'-6 1/8"	A992	
2	344B	W8X18	3'-6 3/16"	A992	
4	c344	L4X4X5/16	0'-5 1/2"	A36	
4		3/4" DIA. W/N&W	0'-2"	A325N TC	

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

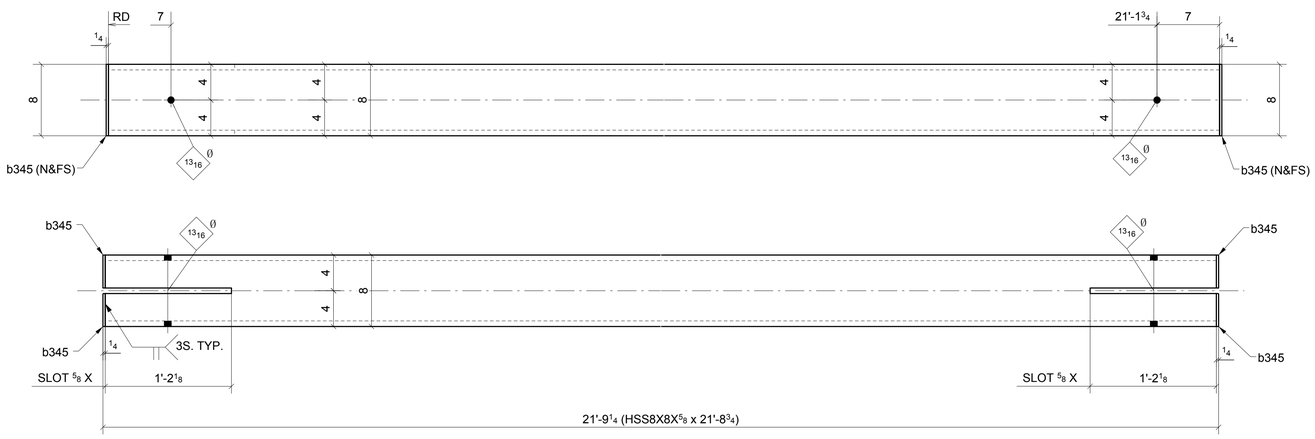
ATLAS IRON WORKS
ST. LOUIS, MO.

Project: WEBSTER UNIVERSITY INTERDISCIPLINARY SCIENCE BUILDING
Customer: PARIC CORPORATION
Owner: WEBSTER UNIVERSITY
Location: WEBSTER GUOVES,MO 63119
Dwn: ZZ Date: 06/03/2016 Ckd: LJ Date: 06/06/2016
Job No. A16013 BAT: DWG#: 344



ONE - VERTICAL BRACE ~ 345A

(REF: E3A)



ONE - VERTICAL BRACE ~ 345B

(REF: E3A)

FOR APPROVAL

MATERIAL LIST

QTY	MARK	DESCRIPTION	LENGTH	MATERIAL	NOTES
1	345A	HSS8X8X5/8	22'-4 7/8"	A500-GR.B-	
2	b345	PL1/4"X3 11/16"	0'-8"	A36	
2	c345	PL1/4"X3 9/16"	0'-8"	A36	
1	345B	HSS8X8X5/8	21'-8 3/4"	A500-GR.B-	
4	b345	PL1/4"X3 11/16"	0'-8"	A36	

Romac By: Checked By:

Beamline By: Checked By:

A	FOR APPROVAL		06/07/16
Sequence:	3	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

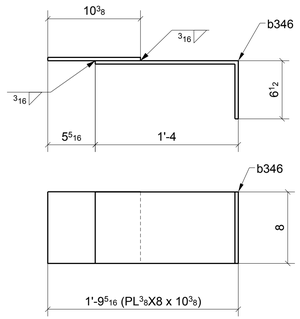
Customer: PARIC CORPORATION

Owner: WEBSTER UNIVERSITY

Location: WEBSTER GUOVES,MO 63119

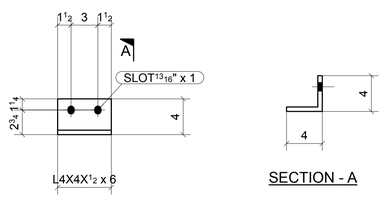
Dwn: ZZ Date: 06/03/2016 Ckd: LJ Date: 06/03/2016

Job No. A16013 BAT: DWG#: 345



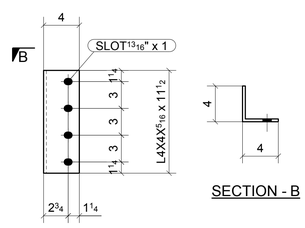
3 - ANGLES ~ 346A

(REF: E3A)



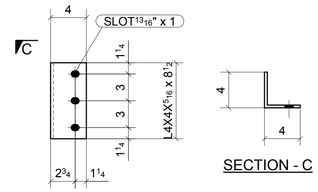
ONE - ANGLE ~ 346B

(REF: E3A)



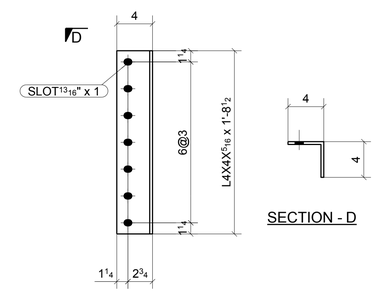
10 - ANGLES ~ 346C

(REF: E3A)



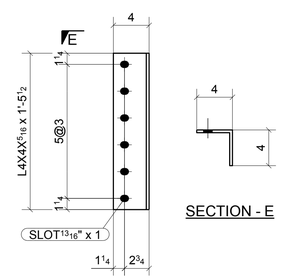
6 - ANGLES ~ 346D

(REF: E3A)



2 - ANGLES ~ 346F

(REF: E3A)



2 - ANGLES ~ 346H

(REF: E3A)

FOR APPROVAL

MATERIAL LIST

QTY	MARK	DESCRIPTION	LENGTH	MATERIAL	NOTES
3	346A	PL3/8"X8"	0'-10 3/8"	A36	
3	b346	BPL3/8"*22"1/2	0'-8"	A36	
1	346B	L4X4X1/2	0'-6"	A36	
10	346C	L4X4X5/16	0'-11 1/2"	A36	
6	346D	L4X4X5/16	0'-8 1/2"	A36	
2	346F	L4X4X5/16	1'-8 1/2"	A36	
2	346H	L4X4X5/16	1'-5 1/2"	A36	

Romac By: _____ Checked By: _____

Beamline By: _____ Checked By: _____

A	FOR APPROVAL	06/07/16

Sequence: 3 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

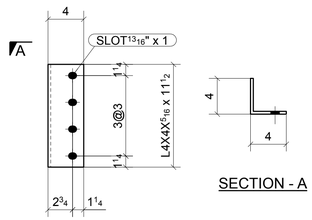
Customer: PARIC CORPORATION

Owner: WEBSTER UNIVERSITY

Location: WEBSTER GUOVES,MO 63119

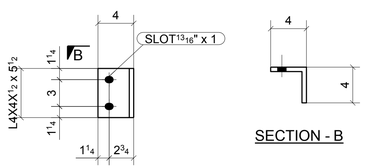
Dwn: ZZ Date: 06/03/2016 Ckd: LJ Date: 06/06/2016

Job No. A16013 BAT: _____ DWG#: 346



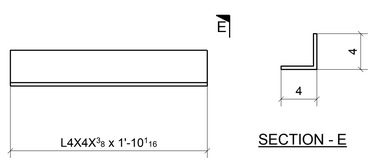
8 - ANGLES ~ 347A

(REF: E3A)



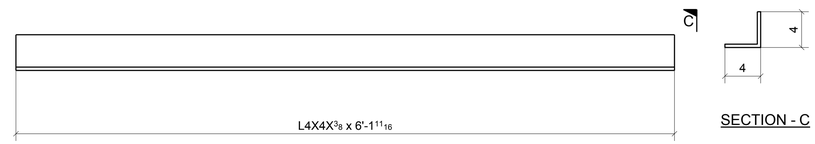
6 - ANGLES ~ 347B

(REF: E3A)



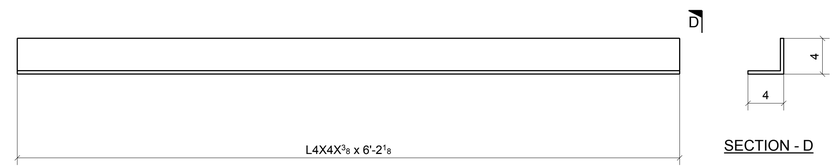
ONE - ANGLE ~ 347F

(REF: E3B)



5 - ANGLES ~ 347C

(REF: E3A)



ONE - ANGLE ~ 347D

(REF: E3A)

FOR APPROVAL

MATERIAL LIST

QTY	MARK	DESCRIPTION	LENGTH	MATERIAL	NOTES
8	347A	L4X4X5/16	0'-11 1/2"	A36	
6	347B	L4X4X1/2	0'-5 1/2"	A36	
5	347C	L4X4X3/8	6'-1 11/16"	A36	
1	347D	L4X4X3/8	6'-2 1/8"	A36	
1	347F	L4X4X3/8	1'-10 1/16"	A36	

Romac By: _____ Checked By: _____

Beamline By: _____ Checked By: _____

A FOR APPROVAL 06/07/16

Sequence: 3 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

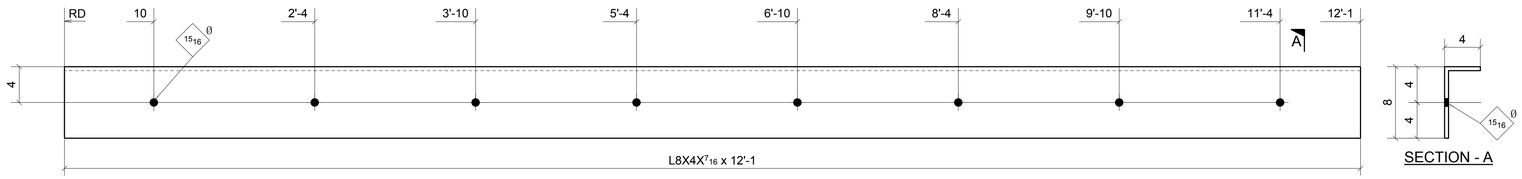
Customer: PARIC CORPORATION

Owner: WEBSTER UNIVERSITY

Location: WEBSTER GUOVES,MO 63119

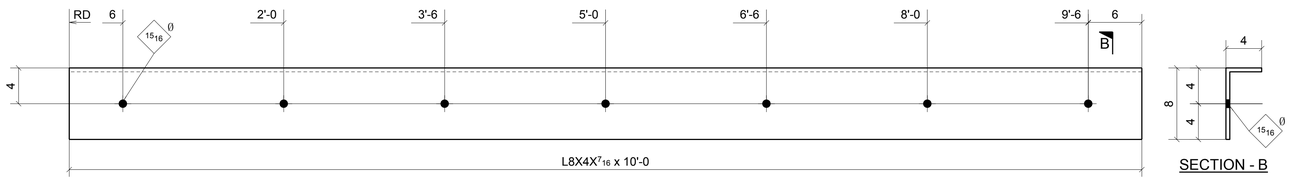
Dwn: ZZ Date: 06/03/2016 Ckd: LJ Date: 06/06/2016

Job No. A16013 BAT: _____ DWG#: 347



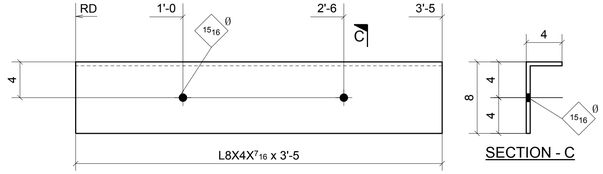
ONE - SUPPORT ANGLE ~ 348A

(REF: E3A)



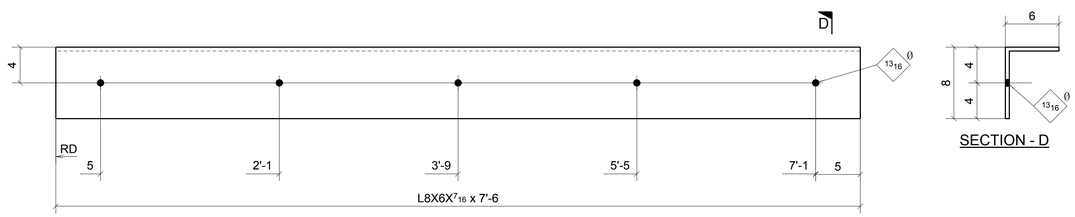
ONE - SUPPORT ANGLE ~ 348B

(REF: E3A)



ONE - SUPPORT ANGLE ~ 348C

(REF: E3A)



2 - SUPPORT ANGLES ~ 348D

(REF: E3A)

FOR APPROVAL

MATERIAL LIST

QTY	MARK	DESCRIPTION	LENGTH	MATERIAL	NOTES
1	348A	L8X4X7/16	12'-1"	A36	
1	348B	L8X4X7/16	10'-0"	A36	
1	348C	L8X4X7/16	3'-5"	A36	
2	348D	L8X6X7/16	7'-6"	A36	

Romac By: _____ Checked By: _____

Beamline By: _____ Checked By: _____

A FOR APPROVAL 06/07/16

Sequence: 3 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

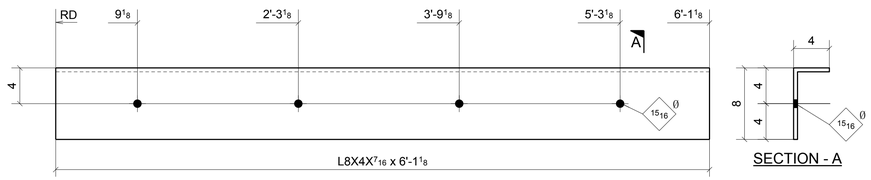
Customer: PARIC CORPORATION

Owner: WEBSTER UNIVERSITY

Location: WEBSTER GUOVES,MO 63119

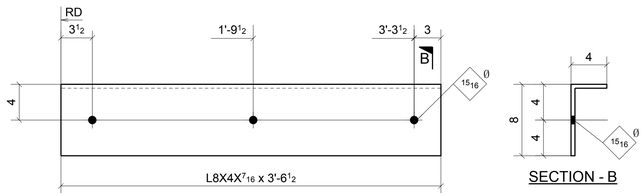
Dwn: ZZ Date: 06/03/2016 Ckd: LJ Date: 06/03/2016

Job No. A16013 BAT: _____ DWG#: 348



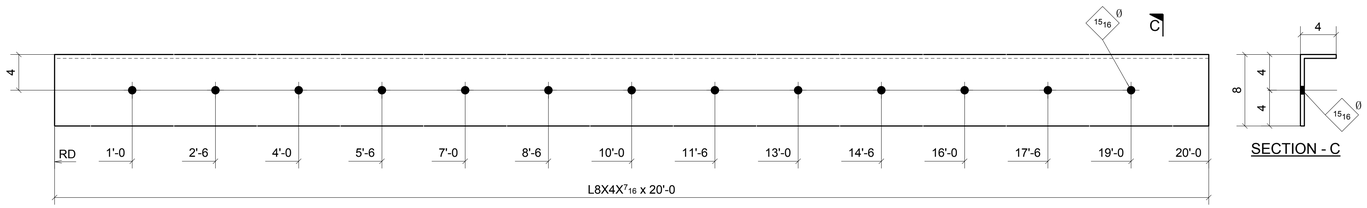
2 - SUPPORT ANGLES ~ 349A

(REF: E3A)



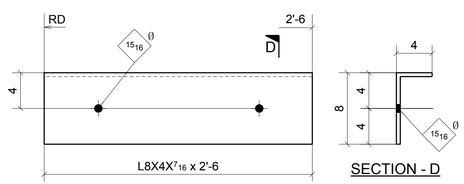
ONE - SUPPORT ANGLE ~ 349B

(REF: E3A)



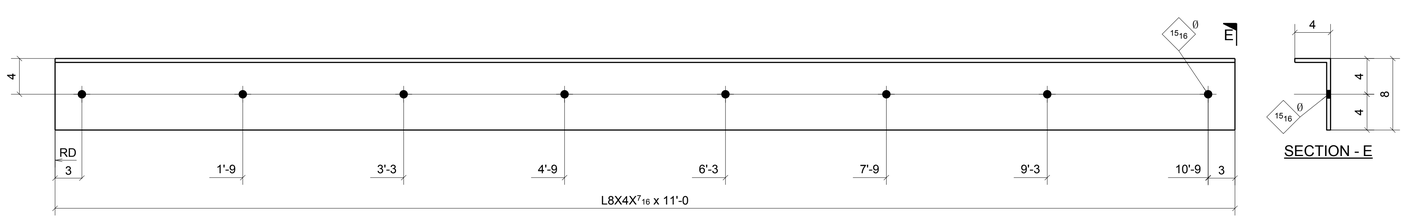
3 - SUPPORT ANGLES ~ 349C

(REF: E3A)



2 - SUPPORT ANGLES ~ 349D

(REF: E3A)



ONE - SUPPORT ANGLE ~ 349F

(REF: E3A)

FOR APPROVAL

MATERIAL LIST

QTY	MARK	DESCRIPTION	LENGTH	MATERIAL	NOTES
2	349A	L8X4X7/16	6'-1 1/8"	A36	
1	349B	L8X4X7/16	3'-6 1/2"	A36	
3	349C	L8X4X7/16	20'-0"	A36	
2	349D	L8X4X7/16	2'-6"	A36	
1	349F	L8X4X7/16	11'-0"	A36	

Romac By: _____ Checked By: _____

Beamline By: _____ Checked By: _____

A	FOR APPROVAL	06/07/16

Sequence: 3 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

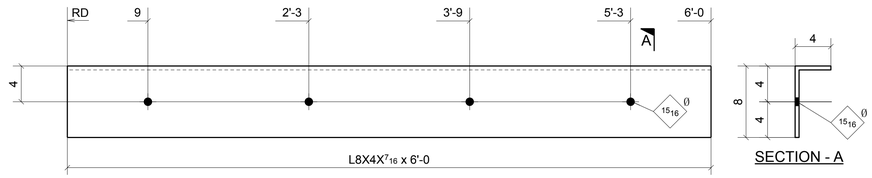
Customer: PARIC CORPORATION

Owner: WEBSTER UNIVERSITY

Location: WEBSTER GUOVES,MO 63119

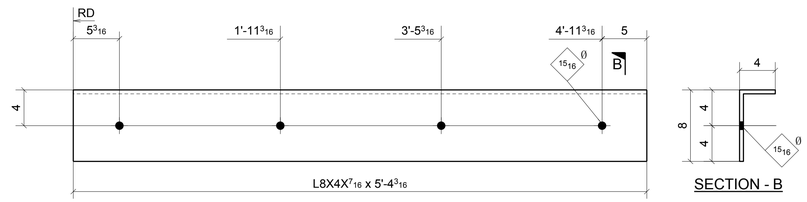
Dwn: ZZ Date: 06/03/2016 Ckd: LJ Date: 06/06/2016

Job No. A16013 BAT: _____ DWG#: 349



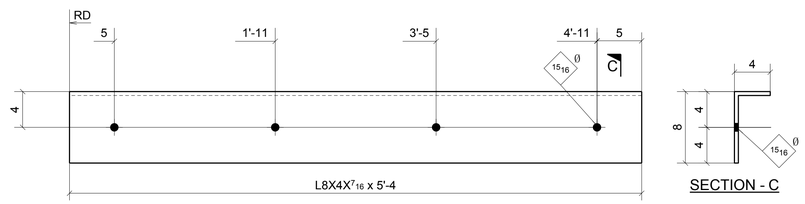
ONE - SUPPORT ANGLE ~ 350A

(REF: E3A)



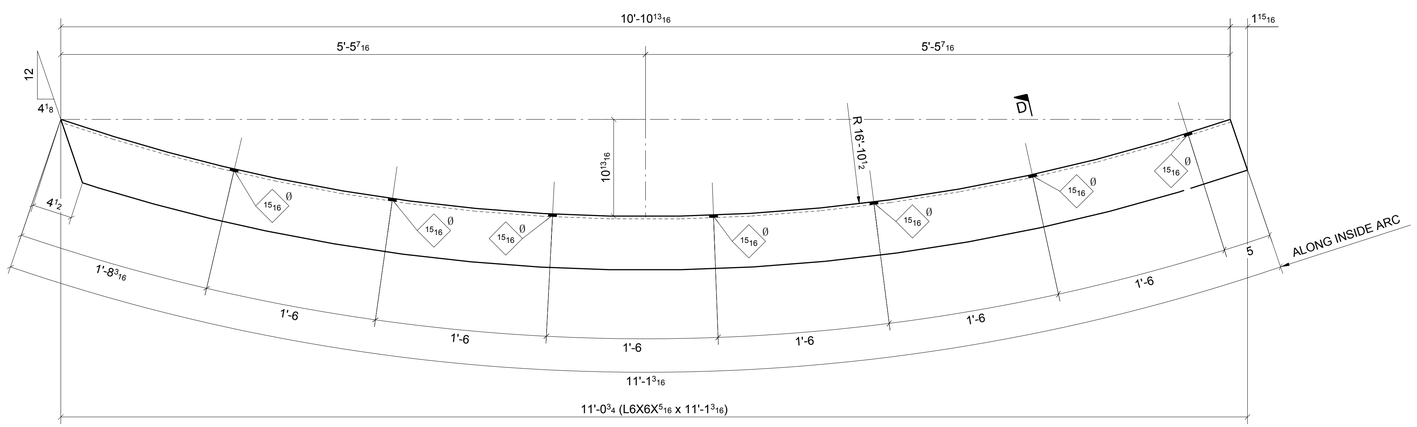
ONE - SUPPORT ANGLE ~ 350B

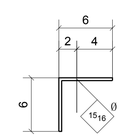
(REF: E3A)



ONE - SUPPORT ANGLE ~ 350C

(REF: E3A)





ONE - SUPPORT ANGLE ~ 350D

(REF: E3A)

FOR APPROVAL

MATERIAL LIST

QTY	MARK	DESCRIPTION	LENGTH	MATERIAL	NOTES
1	350A	L8X4X7/16	6'-0"	A36	
1	350B	L8X4X7/16	5'-4 3/16"	A36	
1	350C	L8X4X7/16	5'-4"	A36	
1	350D	L6X6X5/16	11'-1 3/16"	A36	

Romac By: _____ Checked By: _____

Beamline By: _____ Checked By: _____

A	FOR APPROVAL	06/07/16

Sequence: 3 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

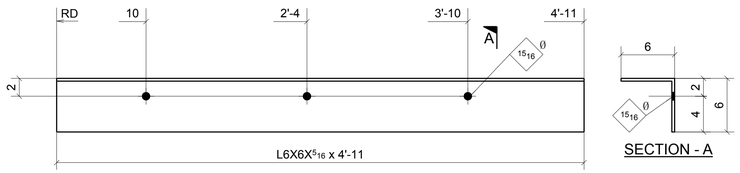
Customer: PARIC CORPORATION

Owner: WEBSTER UNIVERSITY

Location: WEBSTER GUOVES,MO 63119

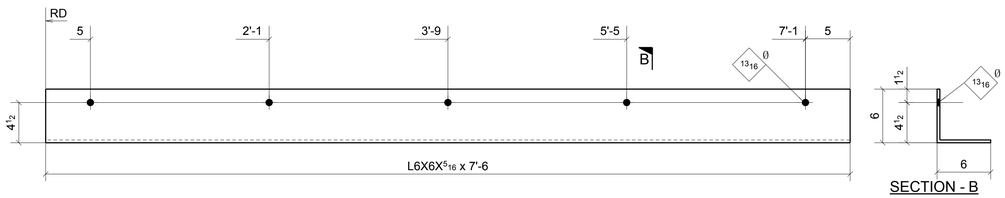
Dwn: ZZ Date: 06/03/2016 Ckd: LJ Date: 06/06/2016

Job No. A16013 BAT: _____ DWG#: 350



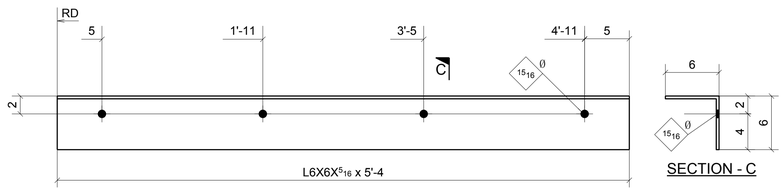
ONE - SUPPORT ANGLE ~ 351A

(REF: E3A)



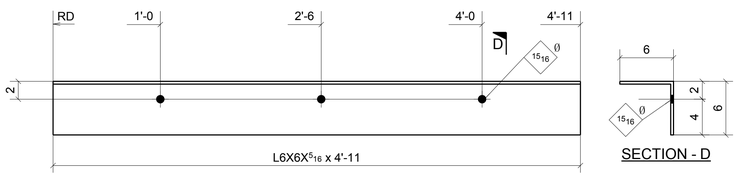
2 - SUPPORT ANGLES ~ 351B

(REF: E3A)



2 - SUPPORT ANGLES ~ 351C

(REF: E3A)



ONE - SUPPORT ANGLE ~ 351D

(REF: E3A)

FOR APPROVAL

MATERIAL LIST

QTY	MARK	DESCRIPTION	LENGTH	MATERIAL	NOTES
1	351A	L6X6X5/16	4'-11"	A36	
2	351B	L6X6X5/16	7'-6"	A36	
2	351C	L6X6X5/16	5'-4"	A36	
1	351D	L6X6X5/16	4'-11"	A36	

Romac By: _____ Checked By: _____

Beamline By: _____ Checked By: _____

A	FOR APPROVAL	06/07/16

Sequence: 3 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

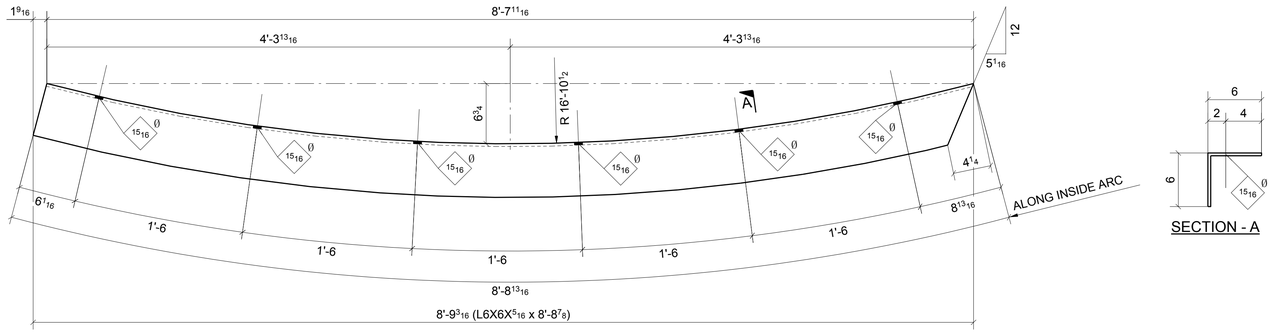
Customer: PARIC CORPORATION

Owner: WEBSTER UNIVERSITY

Location: WEBSTER GUOVES,MO 63119

Dwn: ZZ Date: 06/03/2016 Ckd: LJ Date: 06/03/2016

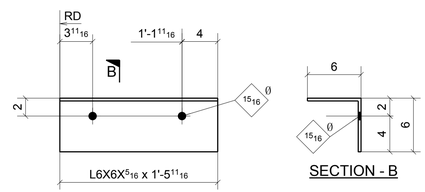
Job No. A16013 BAT: _____ DWG#: 351



SECTION - A

ONE - SUPPORT ANGLE ~ 352A

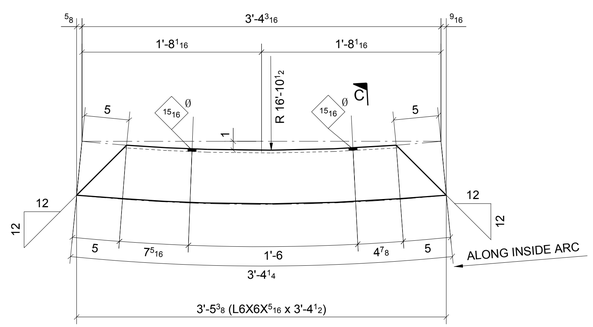
(REF: E3A)

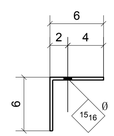


SECTION - B

ONE - SUPPORT ANGLE ~ 352B

(REF: E3A)

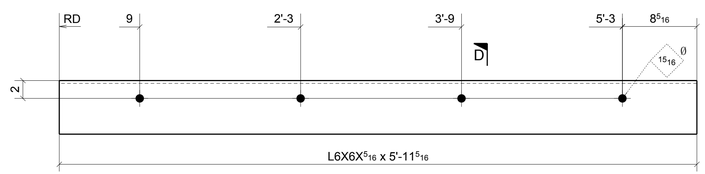


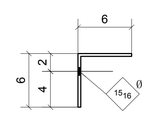


SECTION - C

ONE - SUPPORT ANGLE ~ 352C

(REF: E3A)





SECTION - D

ONE - SUPPORT ANGLE ~ 352D

(REF: E3A)

FOR APPROVAL

MATERIAL LIST

QTY	MARK	DESCRIPTION	LENGTH	MATERIAL	NOTES
1	352A	L6X6X5/16	8'-8 13/16"	A36	
1	352B	L6X6X5/16	1'-5 11/16"	A36	
1	352C	L6X6X5/16	3'-4 1/2"	A36	
1	352D	L6X6X5/16	5'-11 5/16"	A36	

Romac By: _____ Checked By: _____

Beamline By: _____ Checked By: _____

A	FOR APPROVAL	06/07/16

Sequence: 3 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

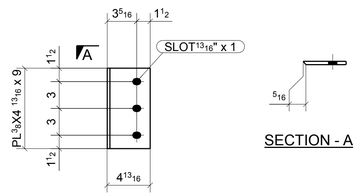
Customer: PARIC CORPORATION

Owner: WEBSTER UNIVERSITY

Location: WEBSTER GUOVES,MO 63119

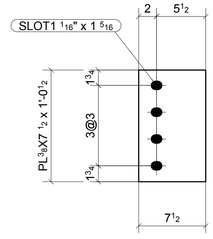
Dwn: ZZ Date: 06/03/2016 Ckd: LJ Date: 06/06/2016

Job No. A16013 BAT: _____ DWG#: 352



2 - PLATES ~ 353A

(REF: E3A)



ONE - PLATE ~ 353D

(REF: E3A)

FOR APPROVAL

MATERIAL LIST

QTY	MARK	DESCRIPTION	LENGTH	MATERIAL	NOTES
2	353A	PL3/8"X4 13/16"	0'-9"	A36	
1	353D	PL3/8"X7 1/2"	1'-0 1/2"	A36	

Romac By: _____ Checked By: _____

Beamline By: _____ Checked By: _____

A	FOR APPROVAL	06/07/16

Sequence: 3 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

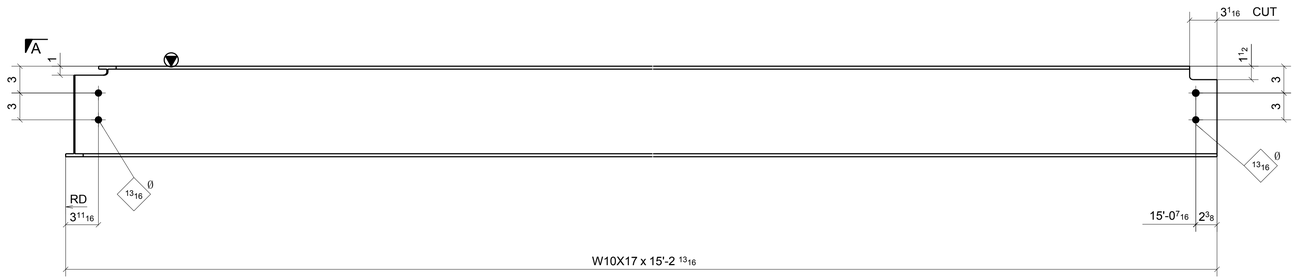
Customer: PARIC CORPORATION

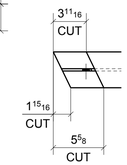
Owner: WEBSTER UNIVERSITY

Location: WEBSTER GUOVES,MO 63119

Dwn: ZZ Date: 06/03/2016 Ckd: LJ Date: 06/06/2016

Job No. A16013 BAT: _____ DWG#: 353

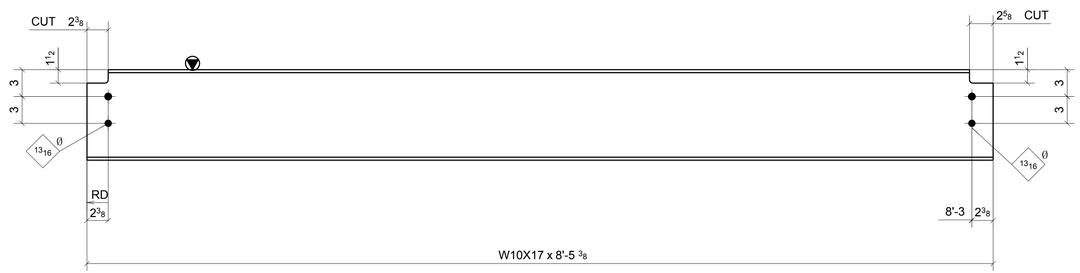




SECTION - A

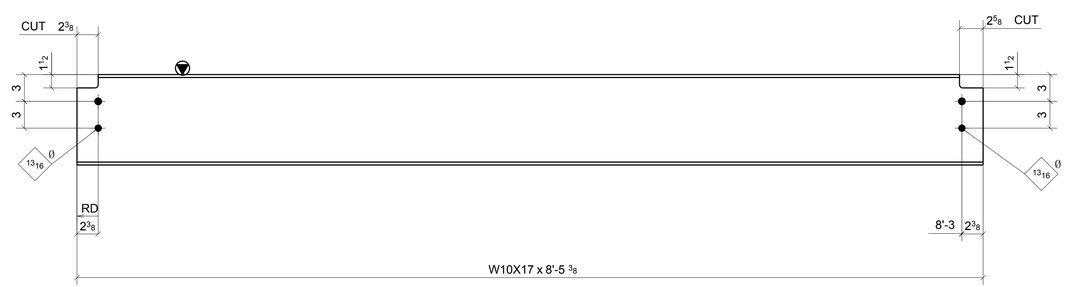
ONE - BEAM ~ 354A

LOCATION: (REF: E3B)
ONE @ 3-4/A.5-B.3



ONE - BEAM ~ 354B

LOCATION: (REF: E3B)
ONE @ 4>/A.5-B.3



ONE - BEAM ~ 354C

LOCATION: (REF: E3B)
ONE @ 4>/A.5-B.3

FOR APPROVAL

MATERIAL LIST

QTY	MARK	DESCRIPTION	LENGTH	MATERIAL	NOTES
1	354A	W10X17	15'-2 13/16"	A992	
1	354B	W10X17	8'-5 3/8"	A992	
1	354C	W10X17	8'-5 3/8"	A992	

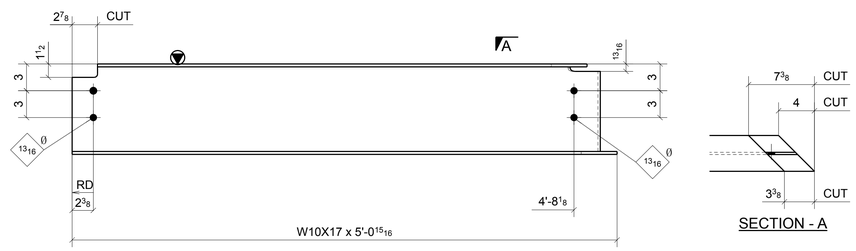
Romac By: Checked By:
Beamline By: Checked By:

A FOR APPROVAL 06/07/16

Sequence: 3 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.

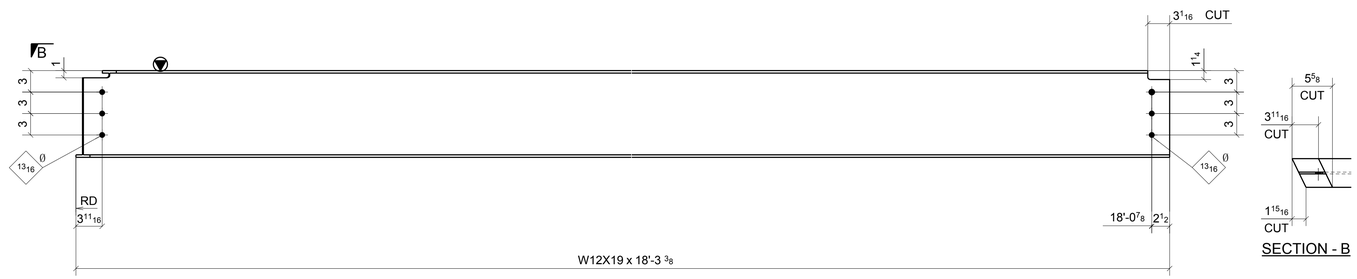
Project: WEBSTER UNIVERSITY INTERDISCIPLINARY SCIENCE BUILDING
Customer: PARIC CORPORATION
Owner: WEBSTER UNIVERSITY
Location: WEBSTER GUOVES,MO 63119
Dwn: ZZ Date: 06/03/2016 Ckd: LJ Date: 06/03/2016
Job No. A16013 BAT: DWG#: 354



SECTION - A

ONE - BEAM ~ 355A

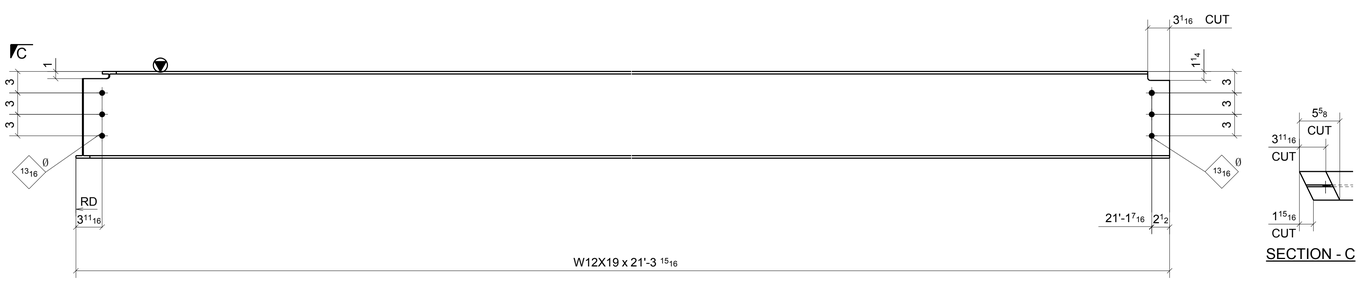
LOCATION: (REF: E3B)
ONE @ <5/C.3-D



SECTION - B

ONE - BEAM ~ 355B

LOCATION: (REF: E3B)
ONE @ 3-4/A.5-B.3



SECTION - C

ONE - BEAM ~ 355C

LOCATION: (REF: E3B)
ONE @ 3-4/A.5-B.3

FOR APPROVAL

MATERIAL LIST

QTY	MARK	DESCRIPTION	LENGTH	MATERIAL	NOTES
1	355A	W10X17	5'-0 15/16"	A992	
1	355B	W12X19	18'-3 3/8"	A992	
1	355C	W12X19	21'-3 15/16"	A992	

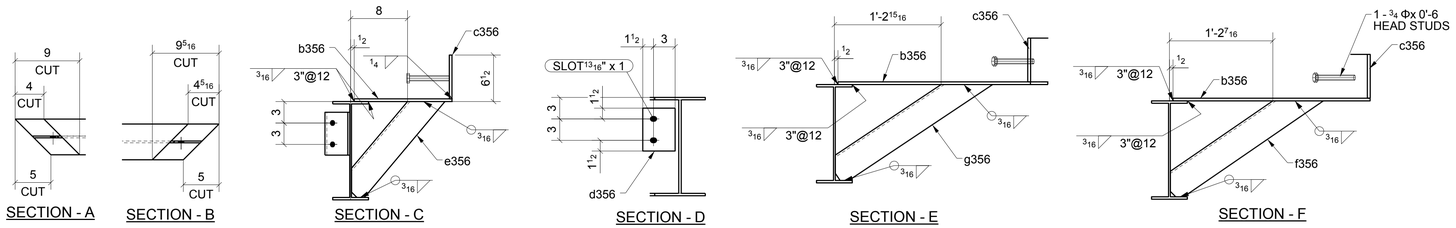
Romac By: _____ Checked By: _____
Beamline By: _____ Checked By: _____

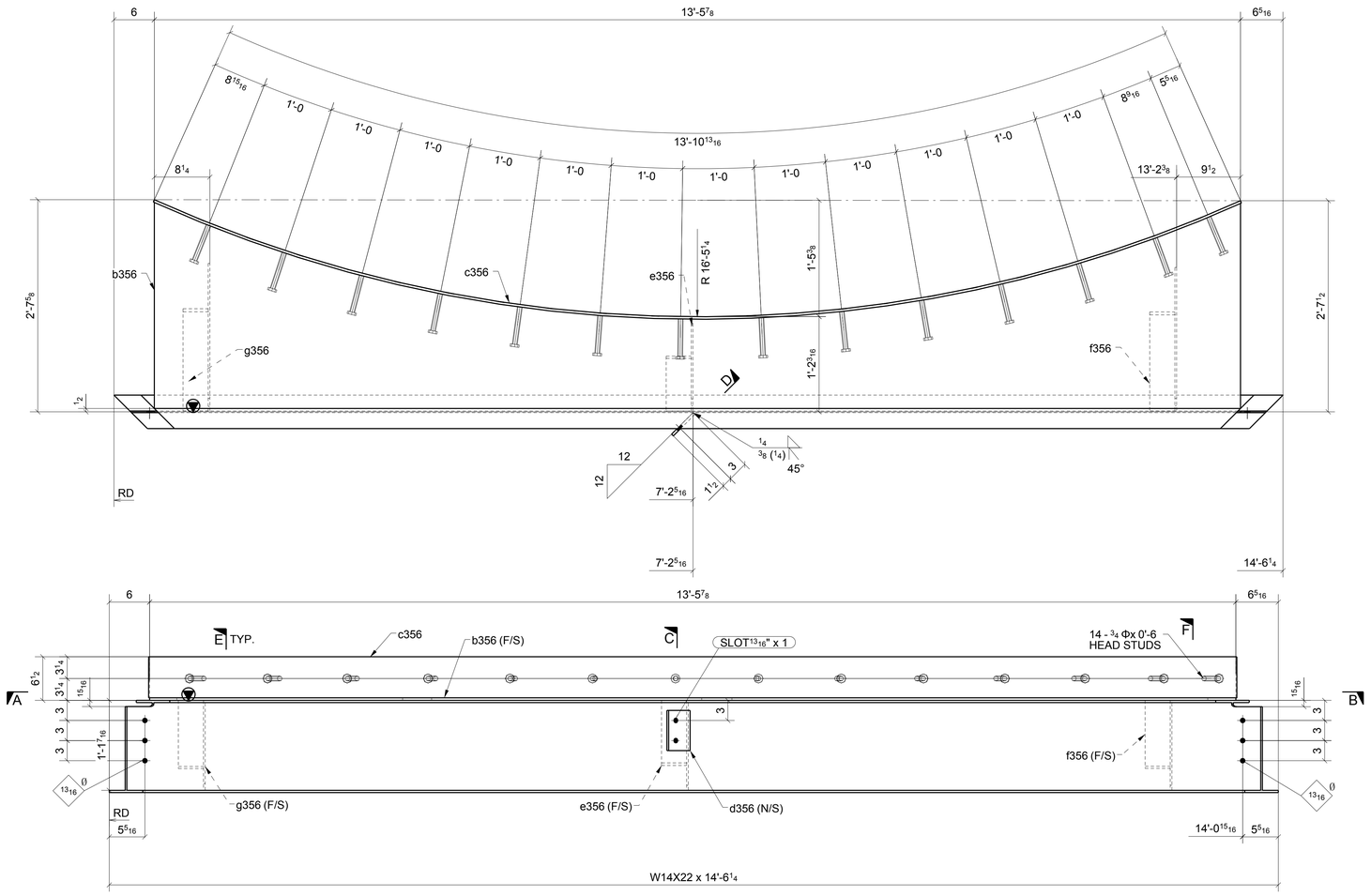
A	FOR APPROVAL	06/07/16

Sequence: 3 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: 06/03/2016 Ckd: LJ Date: 06/03/2016
Job No. A16013 BAT: _____ DWG#: 355





ONE - BEAM ~ 356A

(REF: E3B)

MATERIAL LIST

QTY	MARK	DESCRIPTION	LENGTH	MATERIAL	NOTES
1	356A	W14X22	14'-6 1/4"	A36	
1	b356	PL3/8"X31 1/8"	13'-5 7/8"	A36	
1	c356	BPL3/8"X6 1/8"	13'-11 1/16	A36	
1	d356	PL3/8"X4 1/2"	0'-6"	A36	
1	e356	L4X4X1/4	1'-6 3/16"	A36	
1	f356	L4X4X1/4	2'-0 13/16"	A36	
1	g356	L4X4X1/4	2'-1 3/16"	A36	
14		3/4" STUD	0'-6"		

FOR APPROVAL

A	FOR APPROVAL		06/07/16
Sequence:	3	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

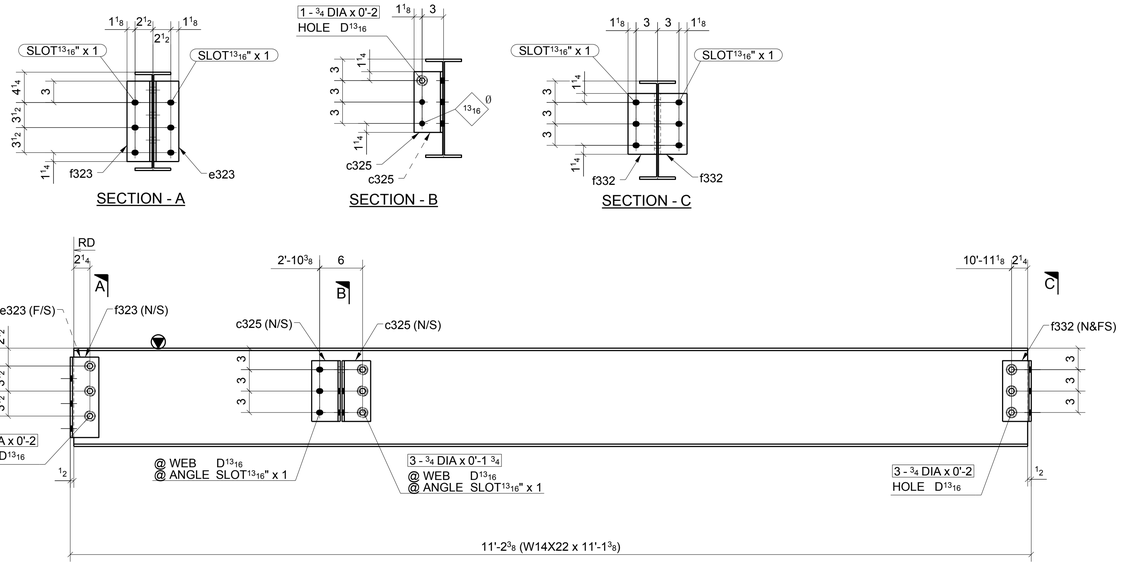
Customer: PARIC CORPORATION

Owner: WEBSTER UNIVERSITY

Location: WEBSTER GUOVES,MO 63119

Dwn: ZZ Date: 06/03/2016 Ckd: LJ Date: 06/06/2016

Job No. A16013 BAT: DWG#: 356



ONE - BEAM ~ 357A

LOCATION: (REF: E3B)
ONE @ 4/A.5-B.3

SHOP BOLT IN SLOTTED HOLE
NEED "HAND TIGHTEN"

FOR APPROVAL

A	FOR APPROVAL		06/07/16
Sequence:	3	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:	

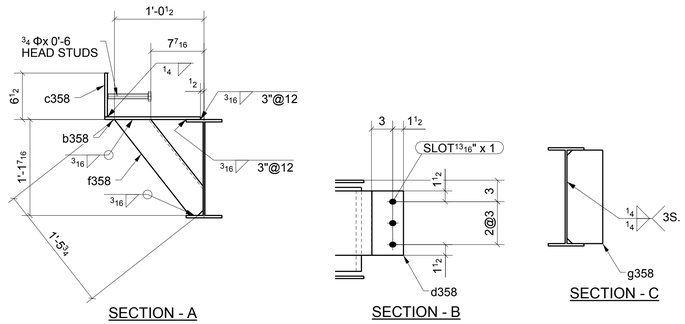
MATERIAL LIST

QTY	MARK	DESCRIPTION	LENGTH	MATERIAL	NOTES
1	357A	W14X22	11'-1 3/8"	A992	
2	c325	L4X4X5/16	0'-8 1/2"	A36	
1	e323	L4X3-1/2X5/16	0'-11 1/4"	A36	
1	f323	L4X3-1/2X5/16	0'-11 1/4"	A36	
2	f332	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	
6		3/4" DIA. W/N&W	0'-2"	A325N_TC	

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

ATLAS IRON WORKS
ST. LOUIS, MO.

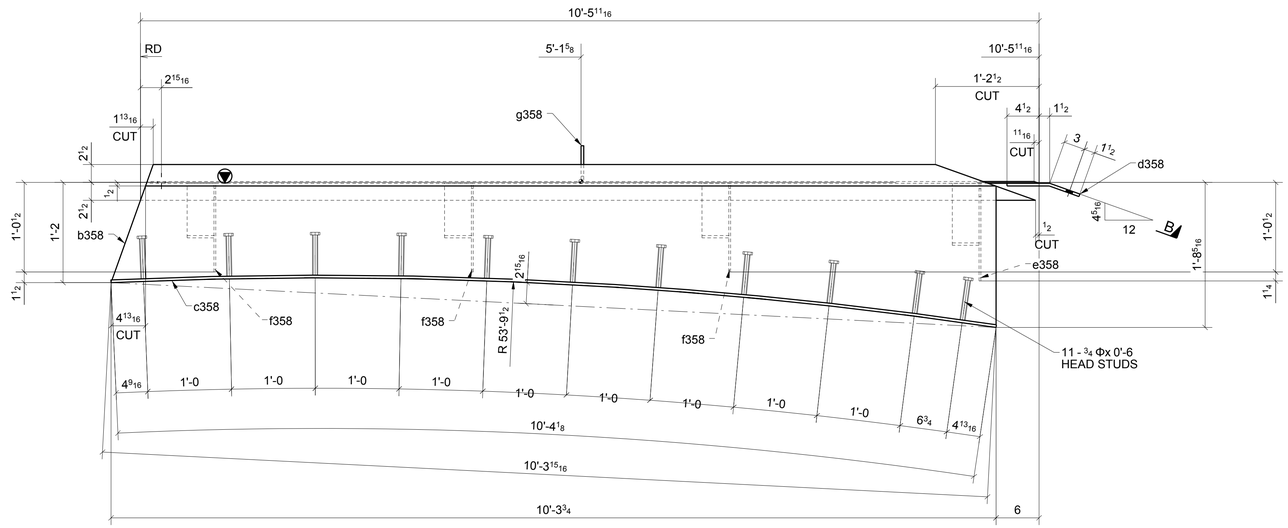
Project:	WEBSTER UNIVERSITY INTERDISCIPLINARY SCIENCE BUILDING				
Customer:	PARIC CORPORATION				
Owner:	WEBSTER UNIVERSITY				
Location:	WEBSTER GUOVES,MO 63119				
Dwn:	ZZ	Date: 06/03/2016	Ckd: LJ	Date: 06/03/2016	
Job No.	A16013	BAT:		DWG#: 357	

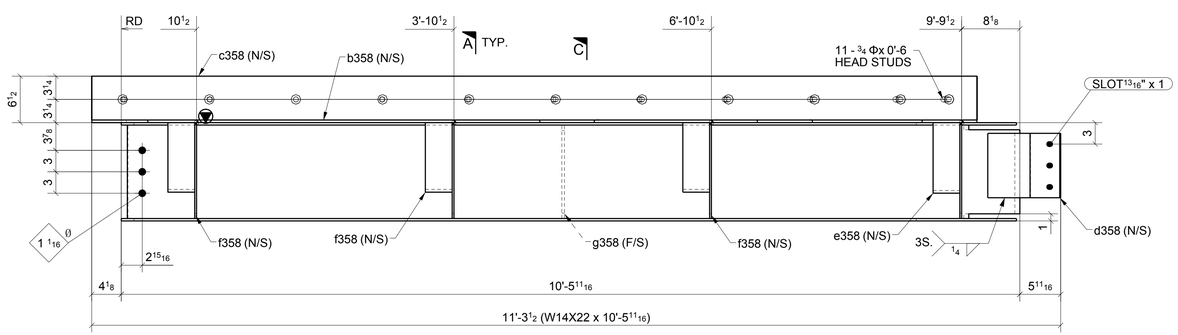


SECTION - A

SECTION - B

SECTION - C





ONE - BEAM ~ 358A

LOCATION:
ONE @ 4>/A.5-B.3

(REF: E3B)

FOR APPROVAL

MATERIAL LIST

QTY	MARK	DESCRIPTION	LENGTH	MATERIAL	NOTES
1	358A	W14X22	10'-5 11/16"	A992	
1	b358	PL3/8"X19 13/16"	10'-3 3/4"	A36	
1	c358	BPL3/8"X6 1/8"	10'-4 3/16"	A36	
1	d358	BPL3/8"X9"	0'-10 7/16"	A36	
1	e358	L4X4X1/4	1'-6 5/8"	A36	
3	f358	L4X4X1/4	1'-5 3/4"	A36	
1	g358	PL3/8"X5"	1'-1 1/16"	A36	
11		3/4" STUD	0'-6"		

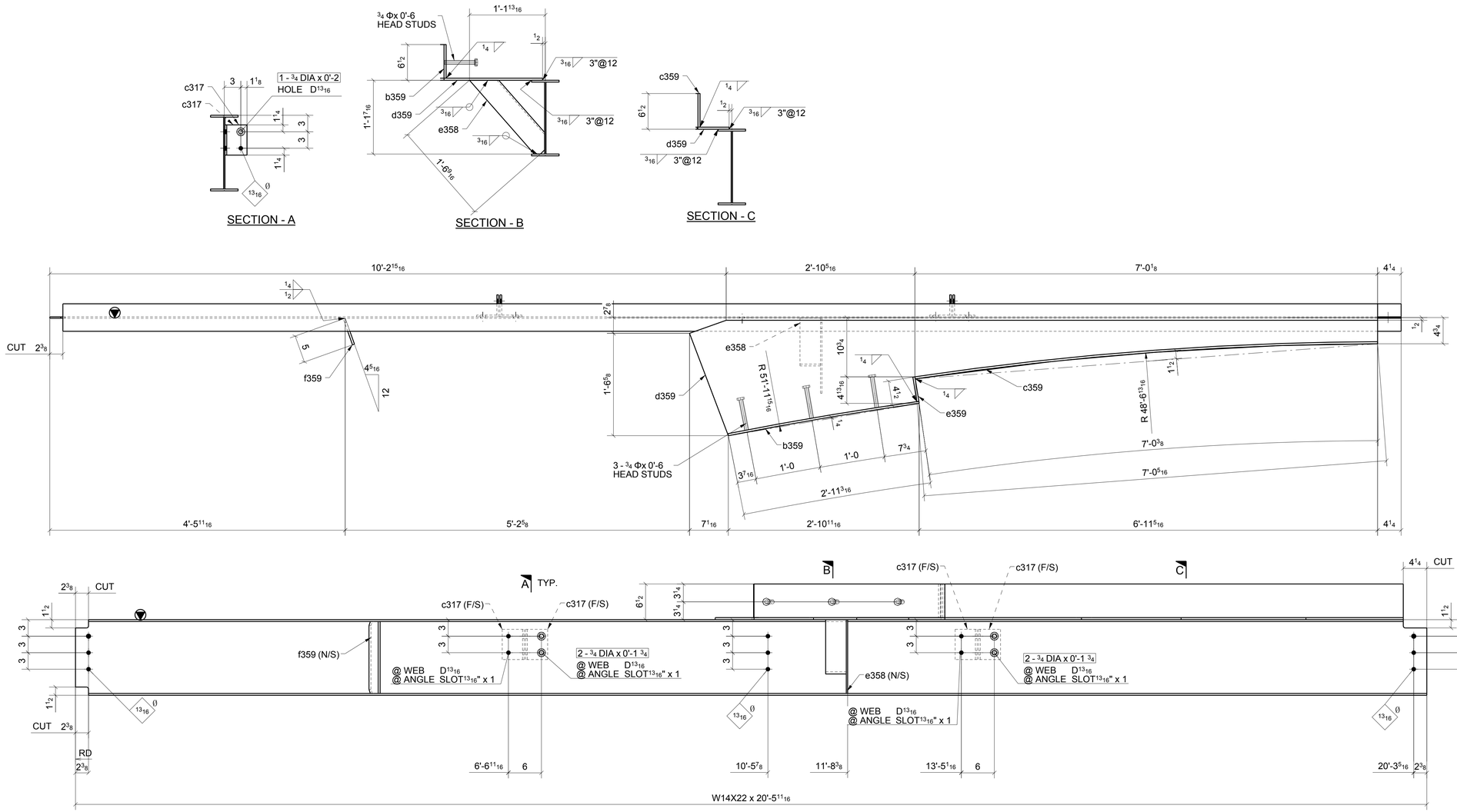
Romac By: _____ Checked By: _____

Beamline By: _____ Checked By: _____

A	FOR APPROVAL		06/07/16
Sequence:	3	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: 06/03/2016 Ckd: LJ Date: 06/06/2016
Job No.	A16013 BAT: DWG#: 358



ONE - BEAM ~ 359A

LOCATION:
ONE @ <5/B

(REF: E3B)

SHOP BOLT IN SLOTTED HOLE
NEED "HAND TIGHTEN"

FOR APPROVAL

MATERIAL LIST

QTY	MARK	DESCRIPTION	LENGTH	MATERIAL	NOTES
1	359A	W14X22	20'-5 5/8"	A992	
1	b359	BPL3/8"X6 1/8"	2'-11 3/8"	A36	
4	c317	L4X4X5/16	0'-5 1/2"	A36	
1	c359	BPL3/8"X6 1/8"	7'-0 7/16"	A36	
1	d359	PL3/8"X21"	10'-5 1/16"	A36	
1	e358	L4X4X1/4	1'-6 5/8"	A36	
1	e359	PL3/8"X4 1/2"	0'-6 1/8"	A36	
1	f359	PL3/8"X5"	1'-1 1/16"	A36	
2		3/4" DIA. W/N&W	0'-2"	A325N TC	
4		3/4" DIA. W/N&W	0'-1 3/4"	A325N TC	
3		3/4" STUD	0'-6"		

Romac By: _____ Checked By: _____

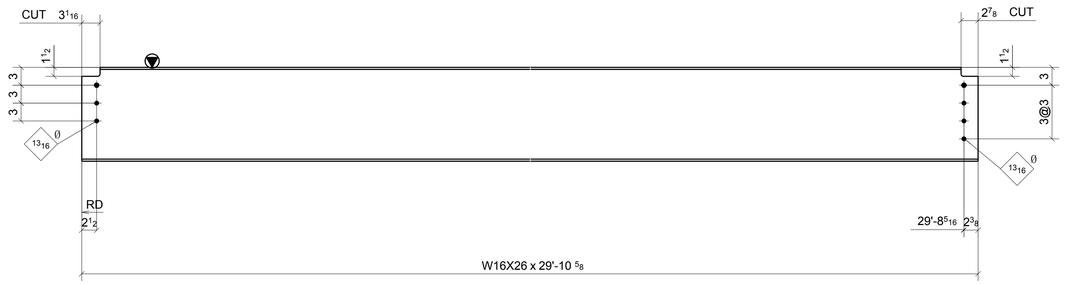
Beamline By: _____ Checked By: _____

A	FOR APPROVAL	06/07/16

Sequence: 3 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: _____

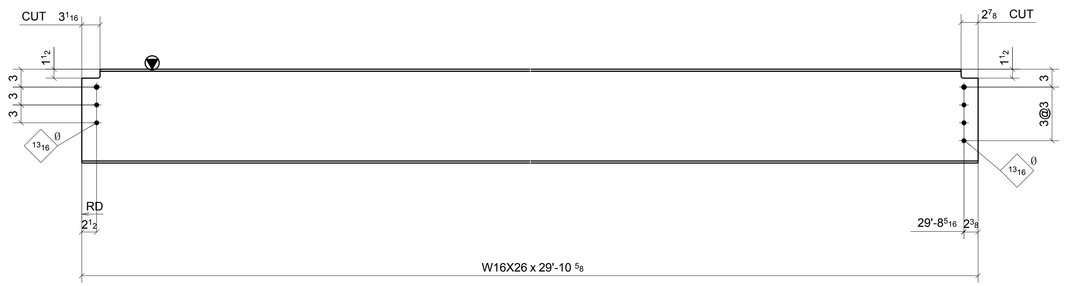
ATLAS IRON WORKS
ST. LOUIS, MO.

Project: WEBSTER UNIVERSITY INTERDISCIPLINARY SCIENCE BUILDING
Customer: PARIC CORPORATION
Owner: WEBSTER UNIVERSITY
Location: WEBSTER GUOVES,MO 63119
Dwn: ZZ Date: 06/03/2016 Ckd: LJ Date: 06/06/2016
Job No. A16013 BAT: _____ DWG#: 359



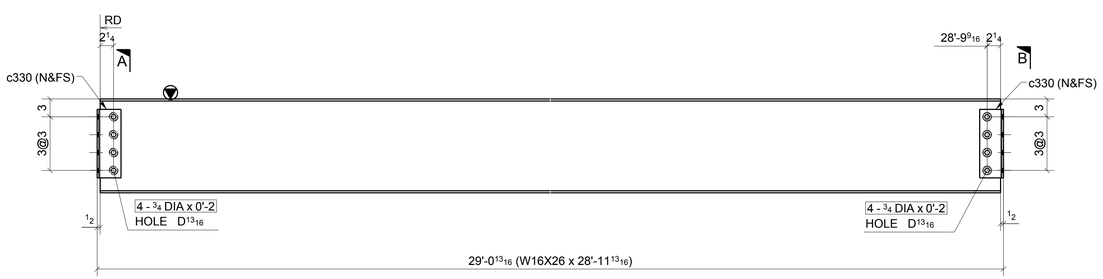
ONE - BEAM ~ 360A

LOCATION: CAMBER=3/4" (REF: E3B)
ONE @ 3-4/B.3-C.3



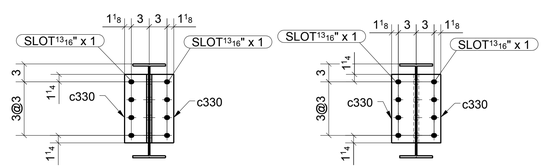
ONE - BEAM ~ 360B

LOCATION: CAMBER=3/4" (REF: E3B)
ONE @ 3-4/B.3-C.3



ONE - BEAM ~ 360C

LOCATION: CAMBER=3/4" (REF: E3B)
ONE @ 4/B.3-C.3



SECTION - A

SECTION - B

FOR APPROVAL

SHOP BOLT IN SLOTTED HOLE
NEED "HAND TIGHTEN"

MATERIAL LIST

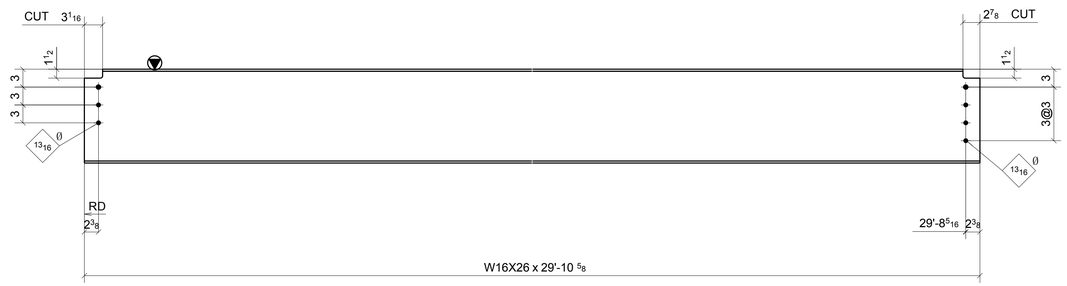
QTY	MARK	DESCRIPTION	LENGTH	MATERIAL	NOTES
1	360A	W16X26	29'-10 5/8"	A992	
1	360B	W16X26	29'-10 5/8"	A992	
1	360C	W16X26	28'-11 13/16"	A992	
4	c330	L4X4X5/16	0'-11 1/2"	A36	
8		3/4" DIA. W/N&W	0'-2"	A325N TC	

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

ATLAS IRON WORKS
ST. LOUIS, MO.

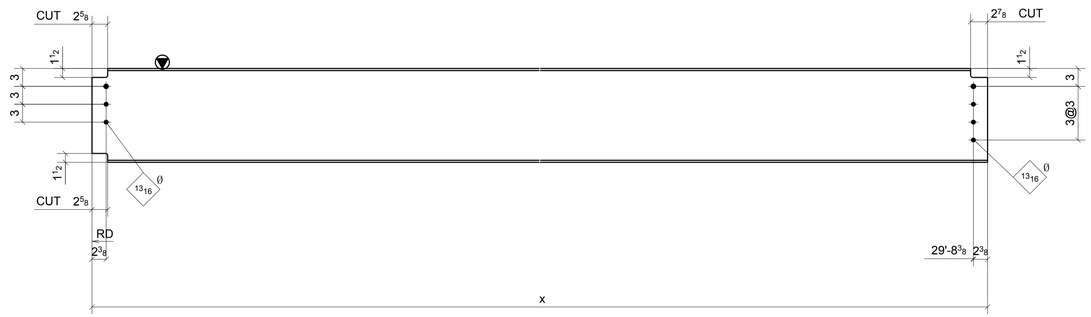
A	FOR APPROVAL 06/07/16
Sequence:	3
Ref. E-Plans:	--
Material:	A992 U.N.O.
Edge Dist.:	1 1/2" U.N.O.
Holes:	13/16"DIA.
Bolts:	NOTED
Cleaning:	NONE
Paint:	NO
DFT:	
COLOR:	

Project:	WEBSTER UNIVERSITY INTERDISCIPLINARY SCIENCE BUILDING
Customer:	PARIC CORPORATION
Owner:	WEBSTER UNIVERSITY
Location:	WEBSTER GUOVES,MO 63119
Dwn: ZZ	Date: 06/03/2016
Ckd: LJ	Date: 06/03/2016
Job No.	A16013
BAT:	
DWG#:	360



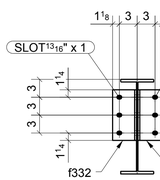
ONE - BEAM ~ 361A

LOCATION: CAMBER=3/4" (REF: E3B)
ONE @ 3-4/B.3-C.3

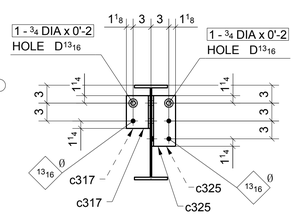


2 - BEAMS ~ 361B

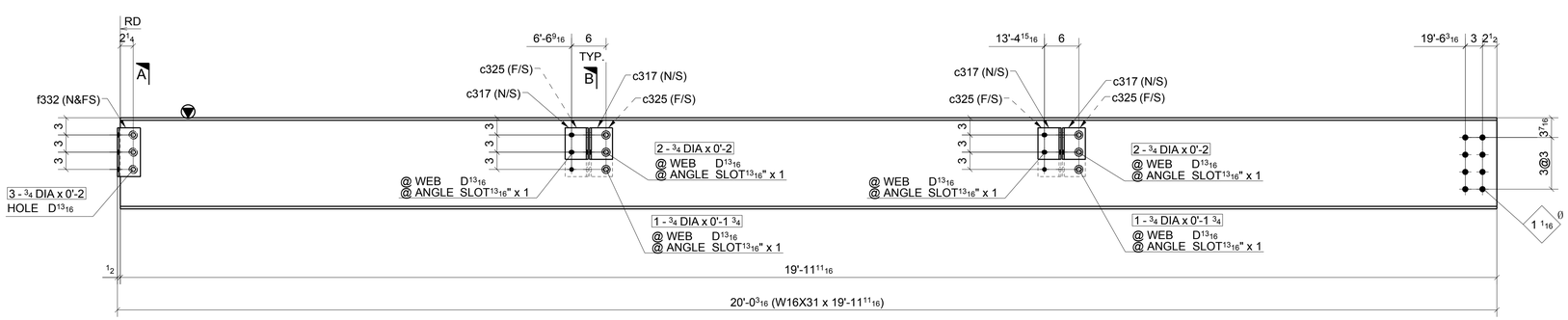
LOCATION: CAMBER=3/4" (REF: E3B)
ONE @ 4>/B.3-C.3
ONE @ 4>/B.3-C.3



SECTION - A



SECTION - B



ONE - BEAM ~ 361C

LOCATION: (REF: E3B)
ONE @ <5/B.3

SHOP BOLT IN SLOTTED HOLE
NEED "HAND TIGHTEN"

FOR APPROVAL

MATERIAL LIST

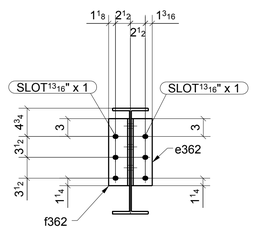
QTY	MARK	DESCRIPTION	LENGTH	MATERIAL	NOTES
1	361A	W16X26	29'-10 5/8"	A992	
2	361B	W16X26	29'-10 11/16"	A992	
1	361C	W16X31	19'-11 11/16"	A992	
4	c317	L4X4X5/16	0'-5 1/2"	A36	
4	c325	L4X4X5/16	0'-8 1/2"	A36	
2	f332	L4X4X5/16	0'-8 1/2"	A36	
2		3/4" DIA. W/N&W	0'-1 3/4"	A325N_TC	
3		3/4" DIA. W/N&W	0'-2"	A325N_TC	
4		3/4" DIA. W/N&W	0'-2"	A325N_TC	
4		3/4" DIA. W/N&W	0'-2"	A325N_TC	

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

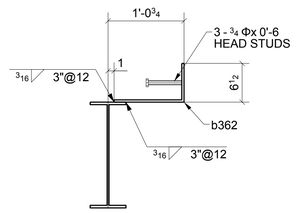
ATLAS IRON WORKS
ST. LOUIS, MO.

A	FOR APPROVAL		06/07/16
Sequence:	3	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:	

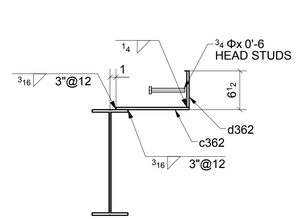
Project: WEBSTER UNIVERSITY INTERDISCIPLINARY SCIENCE BUILDING
Customer: PARIC CORPORATION
Owner: WEBSTER UNIVERSITY
Location: WEBSTER GUOVES,MO 63119
Dwn: ZZ Date: 06/03/2016 Ckd: LJ Date: 06/07/2016
Job No. A16013 BAT: DWG#: 361



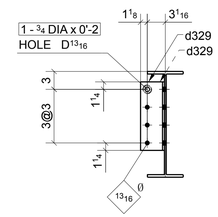
SECTION - A



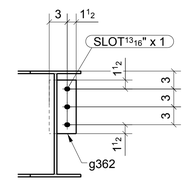
SECTION - B



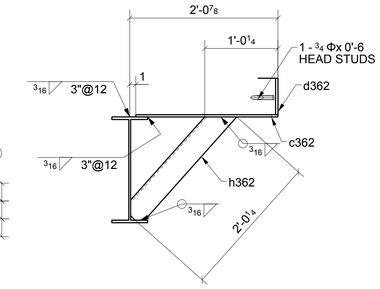
SECTION - C



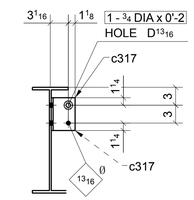
SECTION - D



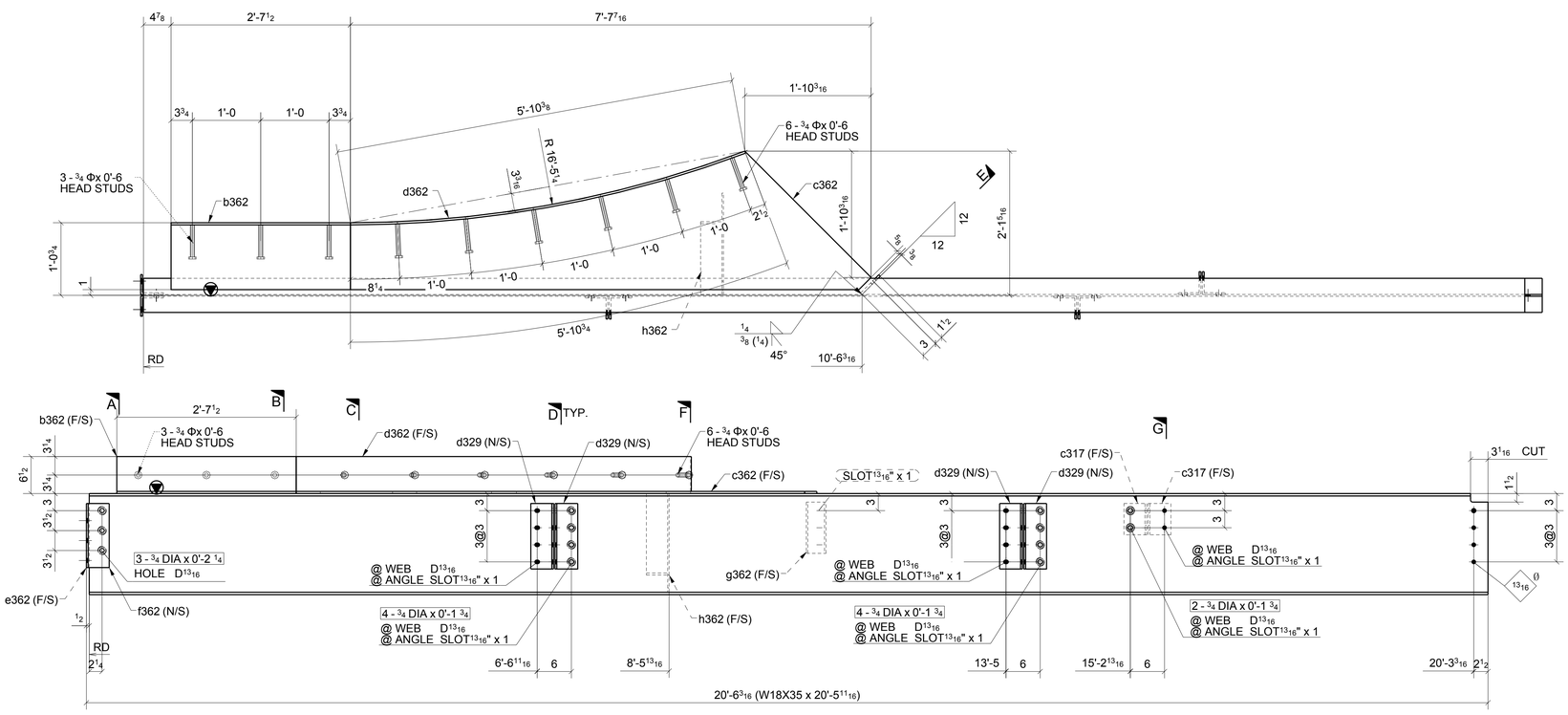
SECTION - E



SECTION - F



SECTION - G



ONE - BEAM ~ 362A

LOCATION: (REF: E3B)
ONE @ <5/C.3

SHOP BOLT IN SLOTTED HOLE
NEED "HAND TIGHTEN"

FOR APPROVAL

MATERIAL LIST

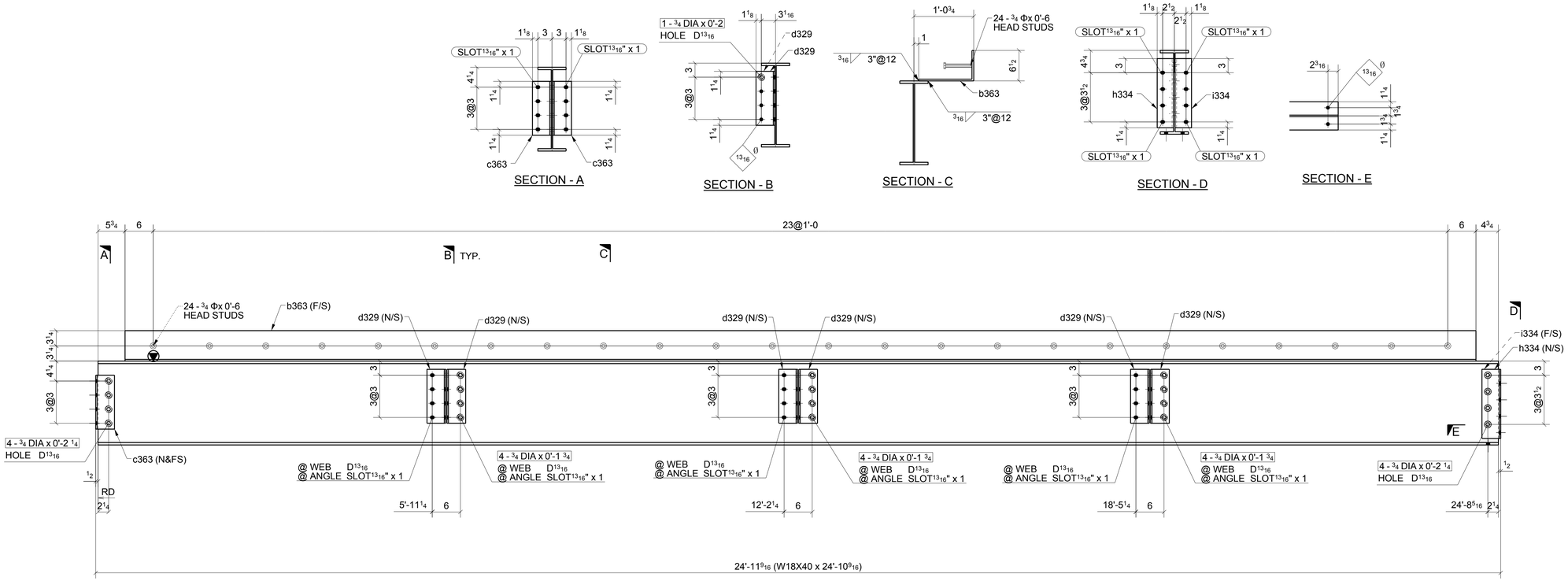
QTY	MARK	DESCRIPTION	LENGTH	MATERIAL	NOTES
1	362A	W18X35	20'-5 5/8"	A992	
1	b362	BPL3/8"X18 1/4"	2'-7 1/2"	A36	
2	c317	L4X4X5/16	0'-5 1/2"	A36	
1	c362	PL3/8"X24 5/16"	7'-7 7/16"	A36	
4	d329	L4X4X5/16	0'-11 1/2"	A36	
1	d362	BPL3/8"X6 1/8"	5'-11 1/16"	A36	
1	e362	L4X3-1/2X5/16	0'-11 1/4"	A36	
1	f362	L4X3-1/2X5/16	0'-11 1/4"	A36	
1	g362	PL3/8"X4 1/2"	0'-9"	A36	
1	h362	L4X4X1/4	2'-0 1/4"	A36	
2		3/4" DIA. W/N&W	0'-1 3/4"	A325N_TC	
3		3/4" DIA. W/N&W	0'-2 1/4"	A325N_TC	
3		3/4" DIA. W/N&W	0'-2"	A325N_TC	
8		3/4" DIA. W/N&W	0'-1 3/4"	A325N_TC	
3		3/4" STUD	0'-6"		
6		3/4" STUD	0'-6"		

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

ATLAS IRON WORKS
ST. LOUIS, MO.

A	FOR APPROVAL		06/07/16
Sequence:	3	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:	

Project: WEBSTER UNIVERSITY INTERDISCIPLINARY SCIENCE BUILDING
Customer: PARIC CORPORATION
Owner: WEBSTER UNIVERSITY
Location: WEBSTER GUOVES,MO 63119
Dwn: ZZ Date: 06/03/2016 Ckd: LJ Date: 06/06/2016
Job No. A16013 BAT: DWG#: 362



ONE - BEAM ~ 363A

LOCATION: (REF: E3B)
ONE @ 3-4/C.3

SHOP BOLT IN SLOTTED HOLE
NEED "HAND TIGHTEN"

FOR APPROVAL

MATERIAL LIST

QTY	MARK	DESCRIPTION	LENGTH	MATERIAL	NOTES
1	363A	W18X40	24'-10 1/2"	A992	
1	b363	BPL3/8"X18 1/4"	24'-0"	A36	
2	c363	L4X4X5/16	0'-11 1/2"	A36	
6	d329	L4X4X5/16	0'-11 1/2"	A36	
1	h334	L4X3-1/2X5/16	1'-2 3/4"	A36	
1	i334	L4X3-1/2X5/16	1'-2 3/4"	A36	
3		3/4" DIA. W/N&W	0'-2"	A325N_TC	
8		3/4" DIA. W/N&W	0'-2 1/4"	A325N_TC	
12		3/4" DIA. W/N&W	0'-1 3/4"	A325N_TC	
24		3/4" STUD	0'-6"		

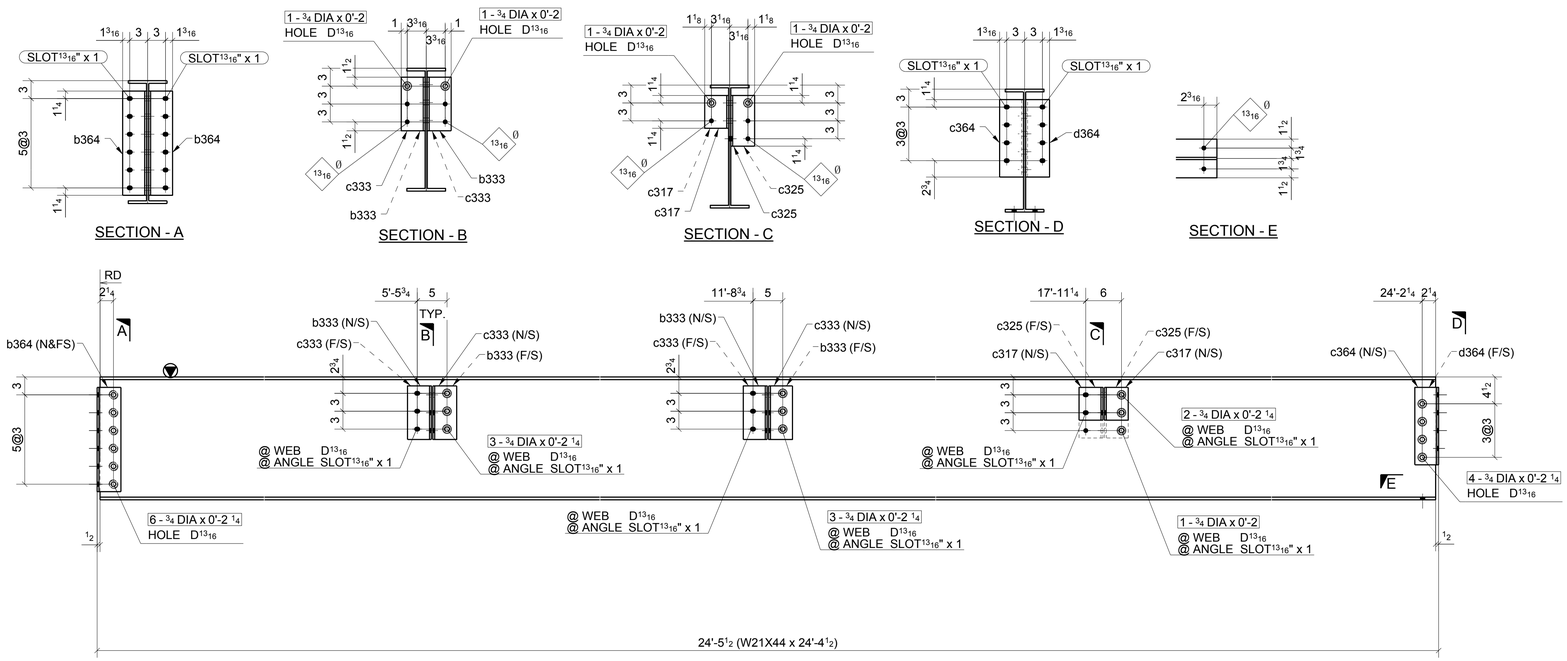
Romac By: Checked By:
Beamline By: Checked By:

A FOR APPROVAL 06/07/16

Sequence: 3 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: 06/03/2016 Ckd: LJ Date: 06/03/2016
Job No. A16013 BAT: DWG#: 363



ONE - BEAM ~ 364A

LOCATION: (REF: E3B)
ONE @ 3-4/B.3

SHOP BOLT IN SLOTTED HOLE
NEED "HAND TIGHTEN"

FOR APPROVAL

MATERIAL LIST

QTY	MARK	DESCRIPTION	LENGTH	MATERIAL	NOTES
1	364A	W21X44	24'-4 1/2"	A992	
4	b333	L4X4X5/16	0'-9"	A36	
2	b364	L4X4X5/16	1'-5 1/2"	A36	
2	c317	L4X4X5/16	0'-5 1/2"	A36	
2	c325	L4X4X5/16	0'-8 1/2"	A36	
4	c333	L4X4X5/16	0'-9"	A36	
1	c364	L4X4X5/16	1'-1"	A36	
1	d364	L4X4X5/16	1'-1"	A36	
6		3/4" DIA. W/N&W	0'-2 1/4"	A325N_TC	
2		3/4" DIA. W/N&W	0'-2 1/4"	A325N_TC	
4		3/4" DIA. W/N&W	0'-2 1/4"	A325N_TC	
6		3/4" DIA. W/N&W	0'-2 1/4"	A325N_TC	
7		3/4" DIA. W/N&W	0'-2"	A325N_TC	

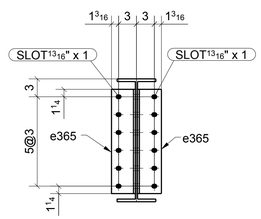
Romac By: Checked By:
Beamline By: Checked By:

ATLAS IRON WORKS
ST. LOUIS, MO.

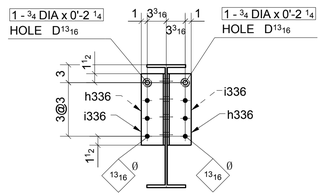
A FOR APPROVAL 06/07/16

Sequence: 3 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:

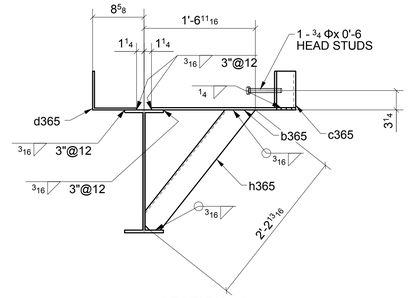
Project: WEBSTER UNIVERSITY INTERDISCIPLINARY SCIENCE BUILDING
Customer: PARIC CORPORATION
Owner: WEBSTER UNIVERSITY
Location: WEBSTER GUOVES,MO 63119
Dwn: ZZ Date: 06/03/2016 Ckd: LJ Date: 06/03/2016
Job No. A16013 BAT: DWG#: 364



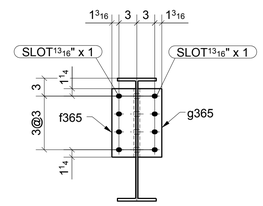
SECTION - A



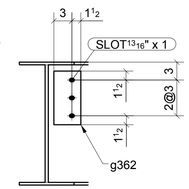
SECTION - B



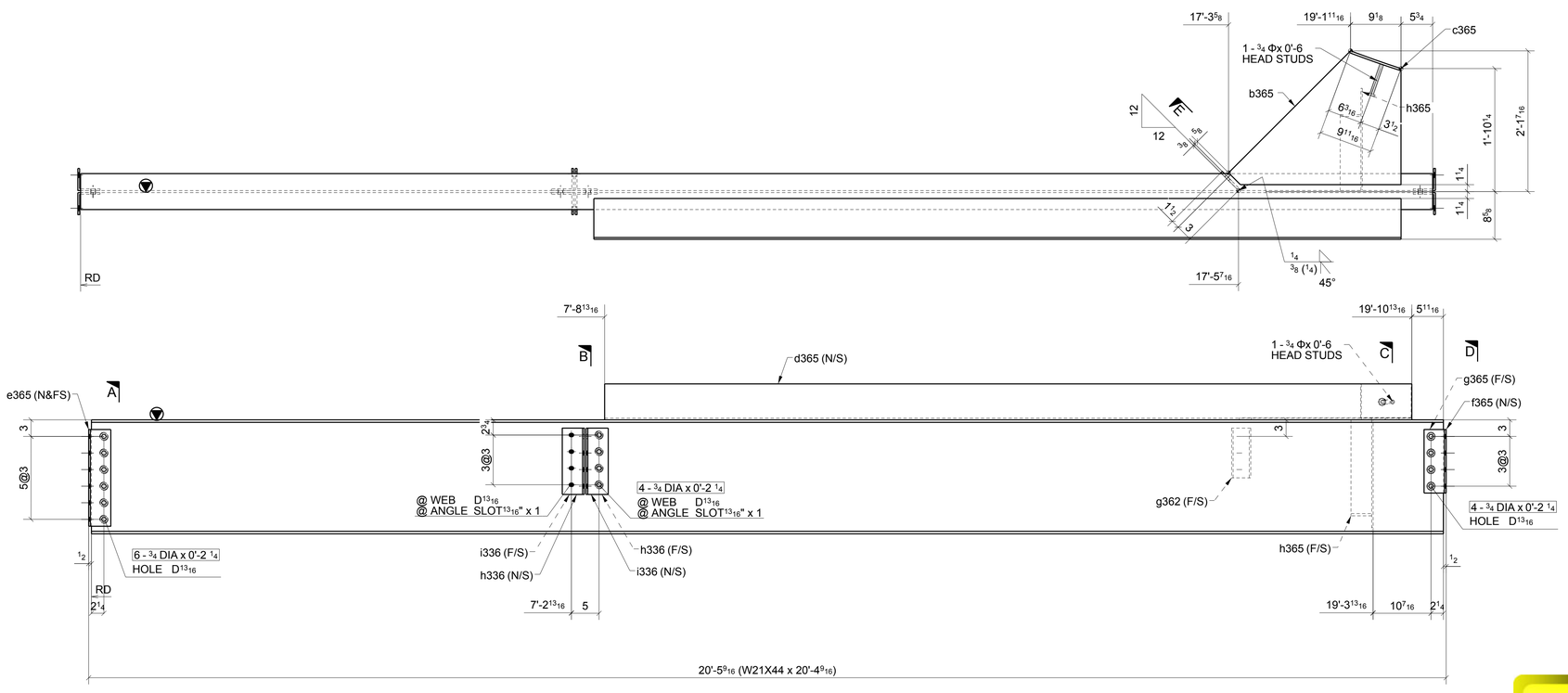
SECTION - C



SECTION - D



SECTION - E



ONE - BEAM ~ 365A

LOCATION: (REF: E3B)
ONE @ 5/C-D

SHOP BOLT IN SLOTTED HOLE
NEED "HAND TIGHTEN"

FOR APPROVAL

MATERIAL LIST

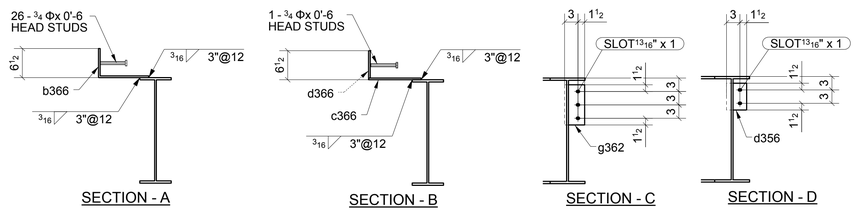
QTY	MARK	DESCRIPTION	LENGTH	MATERIAL	NOTES
1	365A	W21X44	20'-4 1/2"	A992	
1	b365	PL3/8"X23 9/16"	2'-11 3/8"	A36	
1	c365	BPL3/8"X6 1/8"	0'-10 11/16	A36	
1	d365	BPL5/16"X13 7/8"	12'-2"	A36	
2	e365	L4X4X5/16	1'-5 1/2"	A36	
1	f365	L4X4X5/16	0'-11 1/2"	A36	
1	g362	PL3/8"X4 1/2"	0'-9"	A36	
1	g365	L4X4X5/16	0'-11 1/2"	A36	
2	h336	L4X4X5/16	1'-0"	A36	
1	h365	L4X4X1/4	2'-2 13/16"	A36	
2	i336	L4X4X5/16	1'-0"	A36	
6		3/4" DIA. W/N&W	0'-2 1/4"	A325N_TC	
2		3/4" DIA. W/N&W	0'-2 1/4"	A325N_TC	
8		3/4" DIA. W/N&W	0'-2 1/4"	A325N_TC	
1		3/4" STUD	0'-6"		

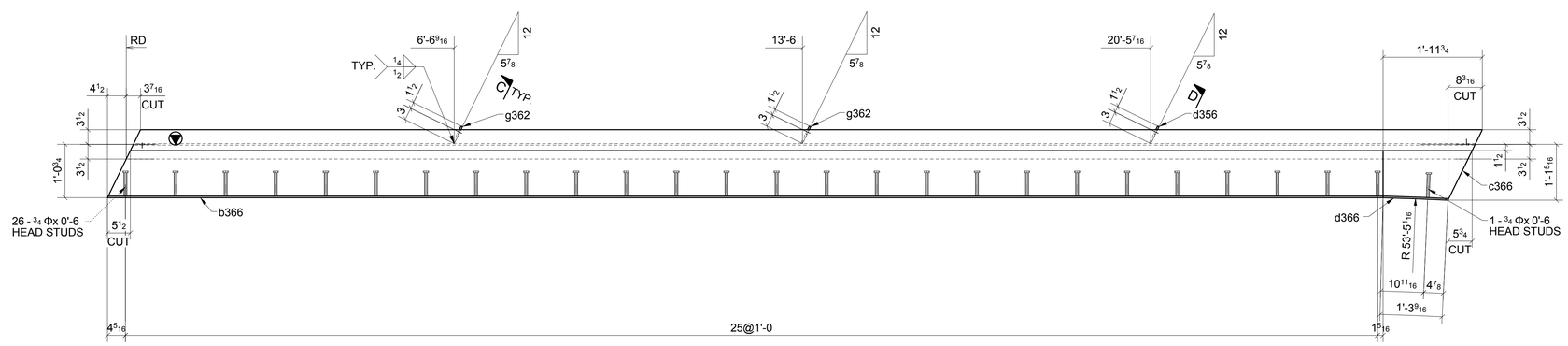
Romac By: Checked By:
Beamline By: Checked By:

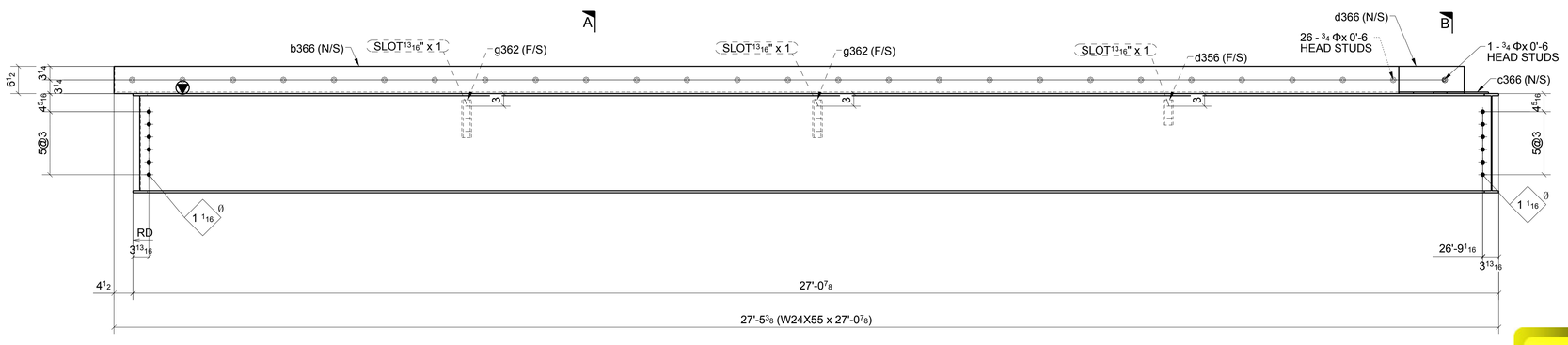
ATLAS IRON WORKS
ST. LOUIS, MO.

A	FOR APPROVAL 06/07/16
Sequence:	3
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:	

Project:	WEBSTER UNIVERSITY INTERDISCIPLINARY SCIENCE BUILDING
Customer:	PARIC CORPORATION
Owner:	WEBSTER UNIVERSITY
Location:	WEBSTER GUOVES,MO 63119
Dwn: ZZ	Date: 06/03/2016 Ckd: LJJ Date: 06/07/2016
Job No.	A16013 BAT: DWG#: 365







ONE - BEAM ~ 366A

LOCATION: (REF: E3B)
ONE @ 3-4/4-B.3

FOR APPROVAL

MATERIAL LIST

QTY	MARK	DESCRIPTION	LENGTH	MATERIAL	NOTES
1	366A	W24X55	27'-0 7/8"	A992	
1	b366	BPL3/8"X17 3/4"	25'-5 5/8"	A36	
1	c366	PL3/8"X11 13/16"	1'-9 5/16"	A36	
1	d356	PL3/8"X4 1/2"	0'-6"	A36	
1	d366	BPL3/8"X6 1/8"	1'-3 9/16"	A36	
2	g362	PL3/8"X4 1/2"	0'-9"	A36	
26		3/4" STUD	0'-6"		
1		3/4" STUD	0'-6"		

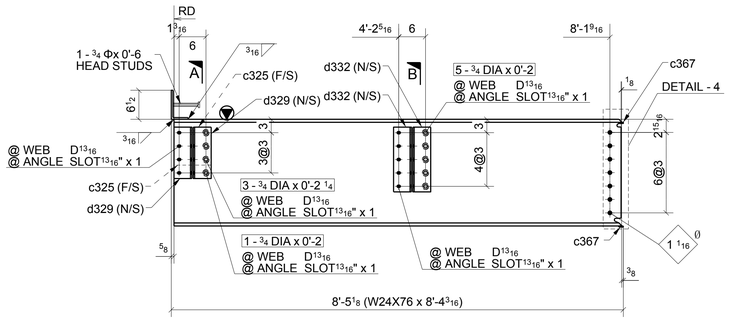
Romac By: Checked By:
Beamline By: Checked By:

A	FOR APPROVAL	06/07/16

Sequence: 3 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:

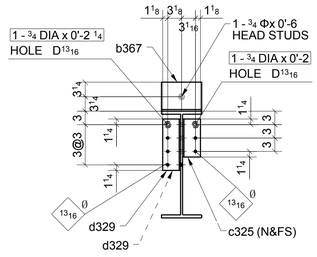
ATLAS IRON WORKS
ST. LOUIS, MO.

Project: WEBSTER UNIVERSITY INTERDISCIPLINARY SCIENCE BUILDING
Customer: PARIC CORPORATION
Owner: WEBSTER UNIVERSITY
Location: WEBSTER GUOVES,MO 63119
Dwn: ZZ Date: 06/03/2016 Ckd: LJ Date: 06/07/2016
Job No. A16013 BAT: DWG#: 366

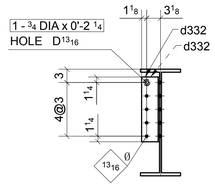


ONE - BEAM ~ 367A

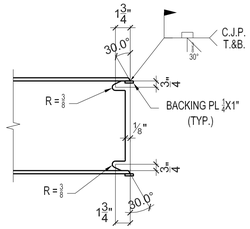
LOCATION: (REF: E3B)
ONE @ 5/B-B.3



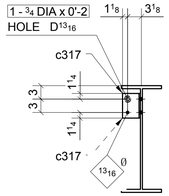
SECTION - A



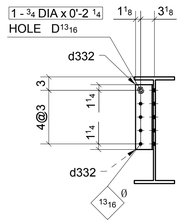
SECTION - B



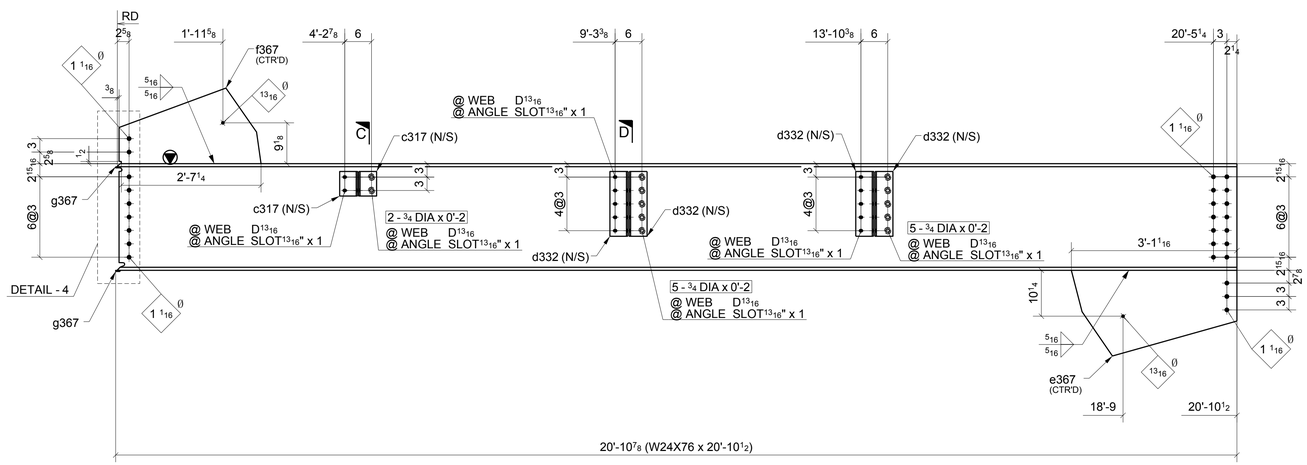
DETAIL "4"



SECTION - C



SECTION - D



ONE - BEAM ~ 367B

LOCATION: (REF: E3B)
ONE @ 5/B.3-C

SHOP BOLT IN SLOTTED HOLE
NEED "HAND TIGHTEN"

FOR APPROVAL

MATERIAL LIST

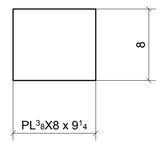
QTY	MARK	DESCRIPTION	LENGTH	MATERIAL	NOTES
1	367A	W24X76	8'-4 1/8"	A992	
1	b367	BPL3/8"X9"	0'-10 1/4"	A36	
2	c325	L4X4X5/16	0'-8 1/2"	A36	
2	c367	PL1/4"X1"	0'-11"	A36	
2	d329	L4X4X5/16	0'-11 1/2"	A36	
2	d332	L4X4X5/16	1'-2 1/2"	A36	
5		3/4" DIA. W/N&W	0'-2"	A325N_TC	
3		3/4" DIA. W/N&W	0'-2 1/4"	A325N_TC	
2		3/4" DIA. W/N&W	0'-2"	A325N_TC	
2		3/4" DIA. W/N&W	0'-2 1/4"	A325N_TC	
1		3/4" STUD	0'-6"		
1	367B	W24X76	20'-10 1/2"	A992	
2	c317	L4X4X5/16	0'-5 1/2"	A36	
4	d332	L4X4X5/16	1'-2 1/2"	A36	
1	e367	PL1/2"X19 3/16"	3'-1 1/16"	A572-GR.50	
1	f367	PL1/2"X16 15/16"	2'-7 3/4"	A572-GR.50	
2	g367	PL1/4"X1"	0'-11"	A36	
2		3/4" DIA. W/N&W	0'-2"	A325N_TC	
1		3/4" DIA. W/N&W	0'-2"	A325N_TC	
2		3/4" DIA. W/N&W	0'-2 1/4"	A325N_TC	
10		3/4" DIA. W/N&W	0'-2"	A325N_TC	

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

ATLAS IRON WORKS
ST. LOUIS, MO.

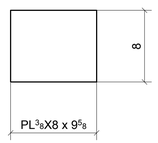
A	FOR APPROVAL		06/07/16
Sequence:	3	Ref. E-Plans:	--
Material:	A992 U.N.O.	Edge Dist.:	1 1/2" U.N.O.
Holes:	13/16"DIA.	Bolts:	NOTED
Cleaning:	NONE		
Paint:	NO		
DFT:		COLOR:	

Project: WEBSTER UNIVERSITY INTERDISCIPLINARY SCIENCE BUILDING
Customer: PARIC CORPORATION
Owner: WEBSTER UNIVERSITY
Location: WEBSTER GUOVES,MO 63119
Dwn: ZZ Date: 06/03/2016 Ckd: LJ Date: 06/07/2016
Job No. A16013 BAT: DWG#: 367



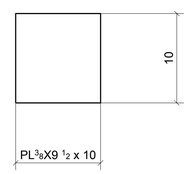
ONE - CAP PLATE ~ 368A

(REF: E3A)



2 - CAP PLATES ~ 368B

(REF: E3A)



2 - CAP PLATES ~ 368C

(REF: E3A)

MATERIAL LIST

QTY	MARK	DESCRIPTION	LENGTH	MATERIAL	NOTES
1	368A	PL3/8"X8"	0'-9 1/4"	A36	
2	368B	PL3/8"X8"	0'-9 5/8"	A36	
2	368C	PL3/8"X9 1/2"	0'-10"	A36	

FOR APPROVAL

A	FOR APPROVAL		06/07/16
Sequence:	3	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: 06/03/2016 Ckd: LJ Date: 06/07/2016

Job No. A16013 BAT: DWG#: 368