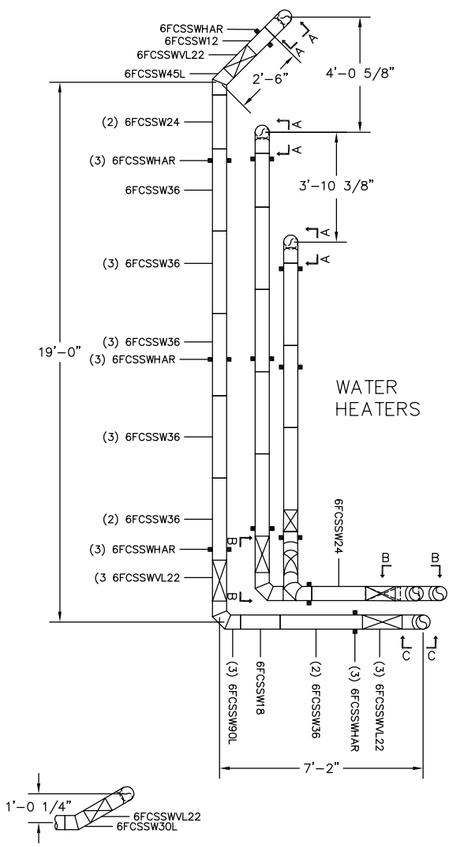
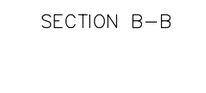
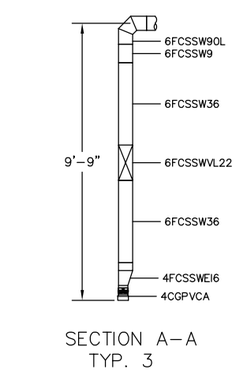
S18290A

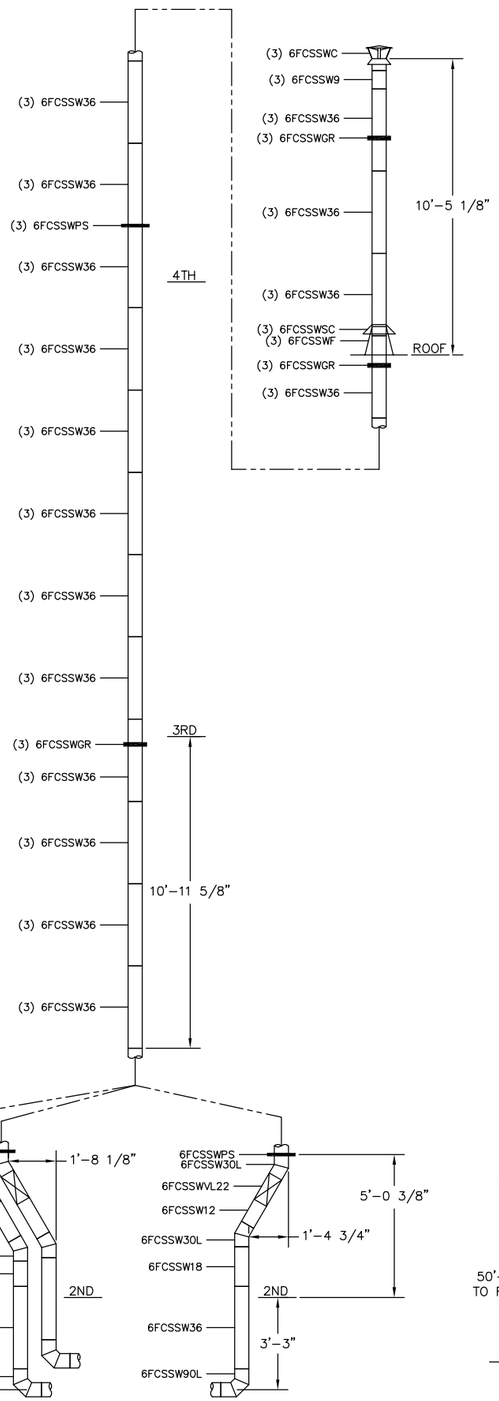


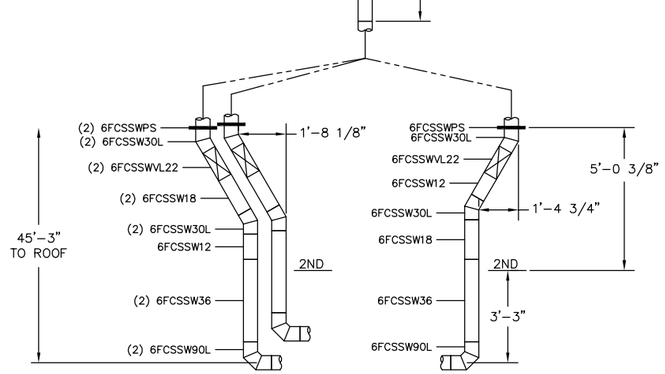




SECTION B-B

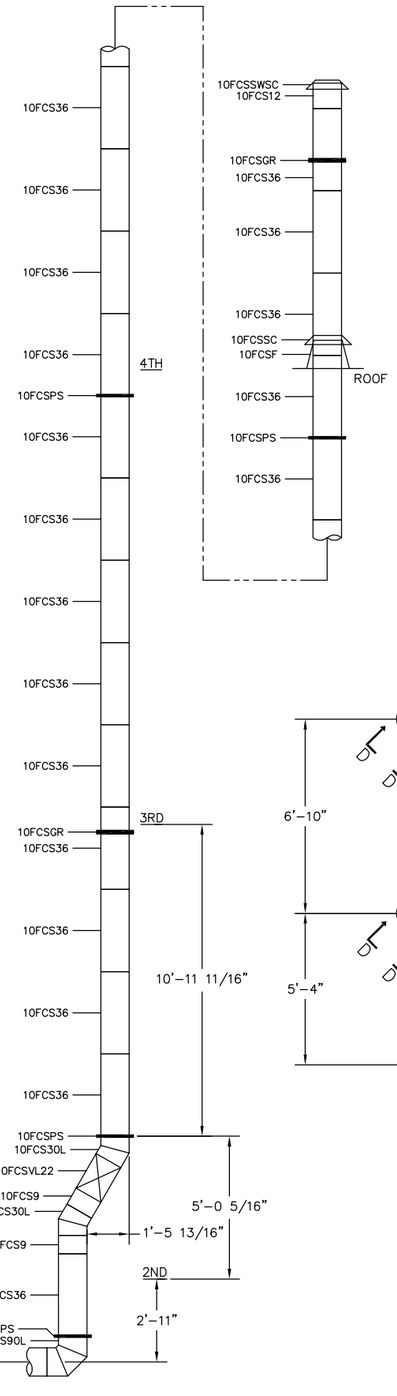



SECTION A-A
TYP. 3



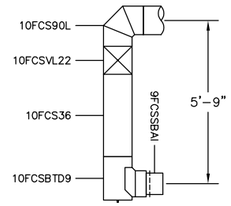




SECTION B-B SECTION C-C

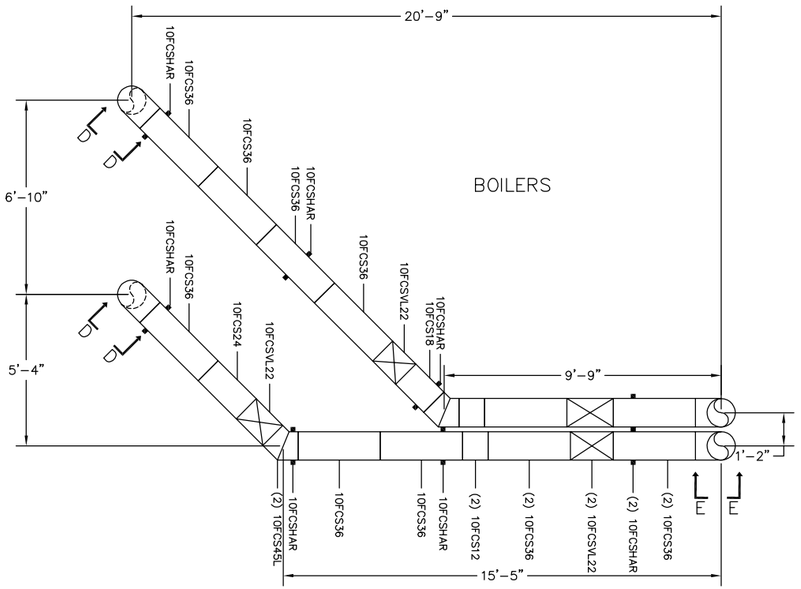



SECTION E-E
TYP. 2

NOTES:
1. MATERIAL: AL29-4C S.S. INNER/ ALUMINIZED OUTER. FCSSW-AL29-4C.
2. ALL ADDITIONAL SUPPORTS BY OTHERS.
3. TORQUE FOR FLANGE BAND BOLTS IS 2-5 FT-LBS. DO NOT OVER-TIGHTEN.




SECTION D-D
TYP. 2




BOILERS

THIS SUBMITTAL DRAWING HAS BEEN PREPARED AT THE REQUEST OF A METAL-FAB REPRESENTATIVE. IT IS THE RESPONSIBILITY OF THE SPECIFYING ENGINEER OR END USER TO ASSURE COMPLIANCE WITH LOCAL CODES.

| Revision | Revision Description | By | Date | Checked |
|---|---|---|---|---|
| A | COMBINED W/S18029A, EDIT DIMS | DM | 03-03-17 | |

JOB: WEBSTER ISB

ARCHITECT:

ENGINEER:

CONTRACTOR:

Drawn by: JH Date: 9-29-16

Description:

METAL-FAB INC.
MANUFACTURERS OF PRODUCTS FOR ENVIRONMENTAL SYSTEMS
P.O. BOX 1130 - WICHITA, KS 67201 (316)943-3351

| | |
|---|---|
| DIR # 3 | REVIEWED & APPROVED BY |
| DWG. #:S18290A | ENGINEER: |
| SCALE: 3/16"=1' | CONTRACTOR: |

- Marley Cooling Technologies
- Armstrong Pumps & Heat Exchangers
- Laars Heating Systems
- ClimateMaster Heat Pumps
- Square D Variable Speed Drives

- SMARDT Chillers
- Trend/ Novar Controls
- PEP Filters
- Boiler Room Accessories
- Cooling Tower Service

# SUBMITTAL DATA

| | | | |
|---|---|---|---|
| TO: | **iCON Mechanical** | SUBMITTAL DATE | **March 15, 2017** |
| ATTENTION: | **Alex Chambers** | CUSTOMER P.O. # | |
| PHONE: | | REVISION | |
| FAX: | | PREPARED BY | **Eric Eyler / BC** |
| | | QUOTE NUMBER | **16-0213.6** |
| **PROJECT** | **Webster Univ ISB** | CURRENT LEAD TIME | **Weeks** |
| **ENGINEER** | **William Tao** | | |
| **LOCATION** | **Webster Groves, MO** | | |

| QTY. | TAG | DESCRIPTION |
|---|---|---|

## ***Boiler Flue***

1 ***MetalFab Flue***
AL29-4C Stainless Flue with
Aluminzed Casing
10"
See attached Drawing and Details

## ***Water Heater Flue***

1 ***MetalFab Flue***
AL29-4C Stainless Flue
304SS Single wall
6"
See attached List for Detials

This data is submitted for:

[XX] APPROVAL
A purchase order commitment has been issued to MIDWEST MACHINERY COMPANY. Items will not be fabricated or delivered until this approval is returned verifying acceptance.

[ ] RECORD PURPOSES
A purchase order commitment has been issued to MIDWEST MACHINERY COMPANY. Items are being fabricated or delivered. This data provided for record purposes.

[ ] RE-SUBMITTAL
The items submitted are to record revisions, corrections, or requests for further information on items previously submitted.

WM TAO & ASSOCIATES
CONSULTING ENGINEERS

# Shop Drawing Submittal Review

Transmitted To: Cannon Design

Date: March 28, 2017

Attention: **stl-cac@cannondesign.com**

Contact Person / WTA Field Inspector: Patrick Garner

Project Name: Webster University-**ISB**

Reviewed by: Mike Nolte

Project No. WT 14127.01

☐ UPS ☐ Courier ☒ **Email**

| Copies | No. | Description |
|---|---|---|
| 1 PDF | 235000 M14 | (Cannon #23 5000-015) |
| | | Hot Water Boiler and Hot Water Heater Exhaust Flues |
| | | |
| | | |
| | | |
| | | |
| | | |

**Remarks:**

1. **Contractor responsible to confirm required installation lengths and clearances prior to ordering flue vents.**
2. **Coordinate installation with all other trades.**

c: **Kelvin Patel**
**Kpatel@cannondesign.com**

☐ Furnish as Submitted ☒ **Furnish as Noted**

☐ Rejected ☐ Revise & Resubmit

☐ Reviewed ☐

Corrections or comments made on shop drawings during this review do not relieve contractor from compliance with requirements of drawings and specifications. This check is only for review of general conformance with the design concept of project and general compliance with information given in contract documents. Contractor is responsible for: confirming and correlating all quantities and dimensions; selecting fabrication processes and techniques of construction; coordinating his work with that of all other trades; and performing his work in a safe and satisfactory manner.

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

235000-015
CONTRACTOR / CM SUBMITTAL NO.

CANNON DESIGN SUBMITTAL NO.

DRAWING / DETAIL REFERENCE

235000
SPECIFICATION SECTION / PARAGRAPH

Icon Mechanical
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

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

3/22/17
DATE

**To be completed by Reviewer**

23 5000-015
CANNON DESIGN SUBMITTAL NUMBER

3/23/17
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

REVIEWED BY

DATE

77 Westport Plaza
Suite 250
St. Louis, MO 63146

# TRANSMITTAL

**No. 15051-0535**

*Paric Corporation*

**PROJECT:** 15051-Webster University Interdisciplinary Science Building

**DATE:** 03/22/2017

**TO:** Cannon Design
1100 Clark Ave
St Louis MO 63102

Fax;
314-241-2203

**RE:** Hot Water Boiler and Hot Water Heater Exhaust Flues Product

**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: Product Data | ☐ Separate Cover Via: | ☐ Due Date: |

| *Item* | *Package* | *Code* | *Rev.* | *Copies* | *Date* | *Description* | *Status* |
|---|---|---|---|---|---|---|---|
| Submittal | | 235000-015 | 1 | | 03/22/2017 | Hot Water Boiler and Hot Water Heater Exhaust Flues Product Data | Submitted |

**NOTES:**

**CC:**

**Signed:** _____

Devin Gates

# Mechanical

## LETTER OF TRANSMITTAL

TO: Paric Corporation
77 West Port Plaza #250
St. Louis, MO 63146

ATTN: Jason Szachnieski, Devin Gates

DATE: 3/16/17
JOB # : 5768
RE: Webster ISB

We are sending you
[ ] Attached [ ] Under separate cover
[X] Shop drawings [ ] Prints [ ] Plans [ ] Samples [ ] Specifications
[ ] Copy of letter [ ] Change order [ ] Other

| COPIES | DATE | NO. | DESCRIPTION |
|---|---|---|---|
| 1 | 3/16/17 | 235000-2.5 | Low Temperature Boiler Vents |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |

These are transmitted as checked below:

[ ] For signature [ ] Approved as submitted [ ] Resubmit [ ] copies for approval
[ ] For your use [ ] Approved as noted [X] Submit [ ] copies for distribution
[ ] As requested [ ] Returned for corrections [ ] Return [ ] corrected prints
[ ] For bids due [ ] Prints returned after loan to us
[X] For review and comment [ ] Other

Remarks: Please return by 3/23/17. Submittal for Hot Water Boiler and Hot Water Heater exhaust flues.

COPY TO: file

SIGNED: Alex Chambers

# Webster University ISB
# Webster Groves, MO

| | |
|---|---|
| Submittal #: | 235000-2.5 |
| Submittal Description: | Low Temperature Boiler Vents |
| Return By: | 3/23/17 |

Please Note: To avoid scheduling delays and equipment release delays, please submit by the "Return By" date.

CHECKED BY:

DESIGNER: ENGINEER:

| | | | |
|---|---|---|---|
| X | NO EXCEPTION TAKEN | | MAKE CORRECTIONS NOTED |
| | SUBMIT SPECIFIED ITEM | | REVISE AND RESUBMIT |
| | REJECTED | | |

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. Equipment supplier is responsible for: dimensions which shall be confirmed and correlated at the job site; fabrication processes and techniques of construction; coordination of his work with that of all other trades; and satisfactory performance of his work.

| | |
|---|---|
| Job #: | 5768 |
| Date: | 3/16/17 |
| By: | ARC |