ITT

# A-C FIRE PUMP SYSTEMS

DIMENSIONS AND ENGINEERING DATA
VERTICAL MULTI STAGE JOCKEY PUMPS
e-SV SERIES



SUPERSEDES ALL PREVIOUS ISSUES

**CONSTRUCTION:** 304 STAINLESS STEEL
**NOMINAL FLOW:** 9 GPM
**CAPACITIES:** 2 - 12 GALLONS PER MINUTE
**HEADS:** 13 – 372 PSI TDH
**STAGING:** 2 – 30
**MINIMUM FLOW:** 2 GPM
**MAXIMUM WORKING PRESSURE:** 360 PSI (25 BAR) FOR THE ANSI FLANGE VERSION
**TEMPERATURES:** STANDARD LIQUID TEMPERATURES FROM -20ºF TO 250ºF (-30ºC TO 120ºC)

***1SV (e-SV)***
***60 Hz 3500 RPM***

This submittal is to be forwarded to the Electrical Engineer for review of the electrical characteristics..

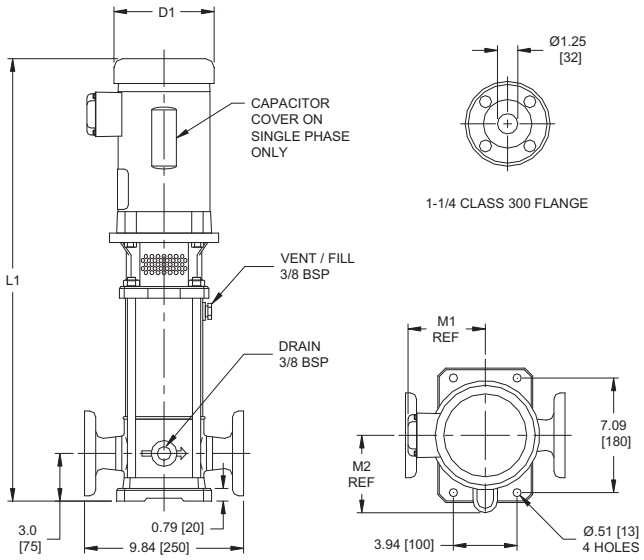
**MOTOR**

- STANDARD NEMA TC FRAME MOTORS IN OPEN DRIP PROOF OR TOTALLY ENCLOSED FAN COOLED ENCLOSURES.
- STANDARD VOLTAGE:
  - SINGLE PHASE: 115-208/230V UP TO 3 HP OR 208-230V FOR 5 HP
  - THREE PHASE, 2 POLE: 208-230/460V, 60 HZ UP 75 HP

| COMPONENT | MATERIAL |
|---|---|
| PUMP BODY | AISI 304 STAINLESS STEEL |
| IMPELLER | AISI 304 STAINLESS STEEL |
| DIFFUSER | AISI 304 STAINLESS STEEL |
| CASING | AISI 316L STAINLESS STEEL |
| SHAFT | AISI 316 STAINLESS STEEL |
| ADAPTER | ASTM CLASS 35/40B CAST IRON |
| BASE | A384.0-F ALUMINUM |
| COUPLING | A384.0-F ALUMINUM |
| SEAL PLATE | AISI 316L STAINLESS STEEL |
| ELASTOMERS | VITON (OPT. EPDM) |
| COUPLING GUARD | AISI 304 STAINLESS STEEL |
| SHAFT SLEEVE AND BUSHING | TUNGSTEN CARBIDE |
| FILL/DRAIN PLUGS | AISI 316 STAINLESS STEEL |
| TIE RODS | A29 GR. 1045 CARBON STEEL / ZINC PLATED |
| WEAR RING | PPS |
| SEAL GLAND | AISI 316 STAINLESS STEEL |

MECHANICAL SEAL

| CODE NO. | ROTATING FACE 1 | STATIONARY FACE 2 | ELASTOMERS 3 |
|---|---|---|---|
| 0 | CARBON | SILICON CARBIDE GRAPHITE FILLED | VITON |




| STAGE | MOTOR HP | MOTOR NEMA FRAME ODP 1Φ | ODP 3Φ | TEFC 1Φ | TEFC 3Φ | DIMENSIONS (IN.) L1 ODP 1Φ | ODP 3Φ | TEFC 1Φ | TEFC 3Φ | M (REF.) | D1 (MAX.) TEFC 1Φ | ODP 1Φ | TEFC 3Φ | ODP 3Φ | WEIGHT (LBS.) PUMP & MOTOR TEFC 1Φ | ODP 1Φ | TEFC 3Φ | ODP 3Φ |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 5 | 1/2 | 56C | | | | 21.68 | | 21.81 | | 5.19 | | 6.19 | | | 44 | 44 | 42 | 42 |
| 7 | 3/4 | 56C | | | | ~~24.88~~ | ~~23.25~~ | ~~24.00~~ | 23.38 | 5.19 | | 6.19 | | | ~~54~~ | ~~52~~ | 46 | ~~46~~ |
| 9 | 1 | 56C | | | | 26.33 | 24.83 | 26.86 | 24.96 | 5.74 | 7.19 | 6.19 | | | 66 | 58 | 49 | 49 |
| 11 | 1 1/2 | 56C | | | | 27.91 | | 28.43 | 27.15 | 5.74 | 7.19 | 6.19 | | | 68 | 60 | 56 | 58 |
| 13 | | | | | | 29.88 | | 30.40 | 29.12 | 5.74 | | | | | 71 | 63 | 59 | 61 |
| 15 | | | | | | 31.46 | | 31.98 | 30.70 | 5.74 | | | | | 73 | 65 | 61 | 63 |
| 17 | 2 | 56C | | | | 33.54 | | 34.42 | 33.15 | 5.74 | 7.19 | | 6.19 | | 88 | 80 | 70 | 69 |
| 19 | | | | | | 35.12 | | 36.00 | 34.73 | 5.74 | | | | | 90 | 82 | 72 | 71 |
| 20 | | | | | | 35.91 | | 36.79 | 35.52 | 6.52 | | | | | 91 | 83 | 73 | 72 |
| 22 | 3 | 56C | | | | 37.87 | 37.48 | 39.74 | 37.46 | 5.75 | 7.19 | 6.62 | 7.19 | 7.16 | 106 | 91 | 86 | 83 |
| 24 | | | | | | 38.66 | 38.27 | 40.53 | 38.25 | 5.75 | | | | | 110 | 95 | 90 | 87 |
| 26 | | | | | | 41.42 | 41.03 | 43.29 | 41.01 | 6.53 | | | | | 112 | 97 | 92 | 89 |
| 28 | | | | | | 42.99 | 42.60 | 44.86 | 42.58 | 6.53 | | | | | 114 | 99 | 94 | 91 |
| 30 | | | | | | 44.56 | 44.17 | 46.43 | 44.15 | 7.31 | | | | | 115 | 100 | 95 | 92 |

**NOT FOR CONSTRUCTION, INSTALLATION OR APPLICATION PURPOSES UNLESS CERTIFIED.**

**CERTIFIED FOR:**

**CUSTOMER ORDER NO:** **IDENTIFICATION NO:**

| | | | | | | | FLANGES | |
|---|---|---|---|---|---|---|---|---|
| **PUMP DATA** | **SIZE** | **MODEL** | **CURVE NO.** | **GPM** | **HEAD (FT)** | **ROTATION** | **SUCTION** | **DISCHARGE** |
| | 1.25x1.25 | e1SV | 7 | 10 | 65 PSI | CW | 300 # | 300 # |
| **MOTOR DATA** | **HP** | **RPM** | **VOLTS** | **PHASE** | **HERTZ** | **FRAME SIZE** | **ENCLOSURE** | |
| | 3/4 | 3450 | 460 | 3 | 60 | 56C | TEFC | |

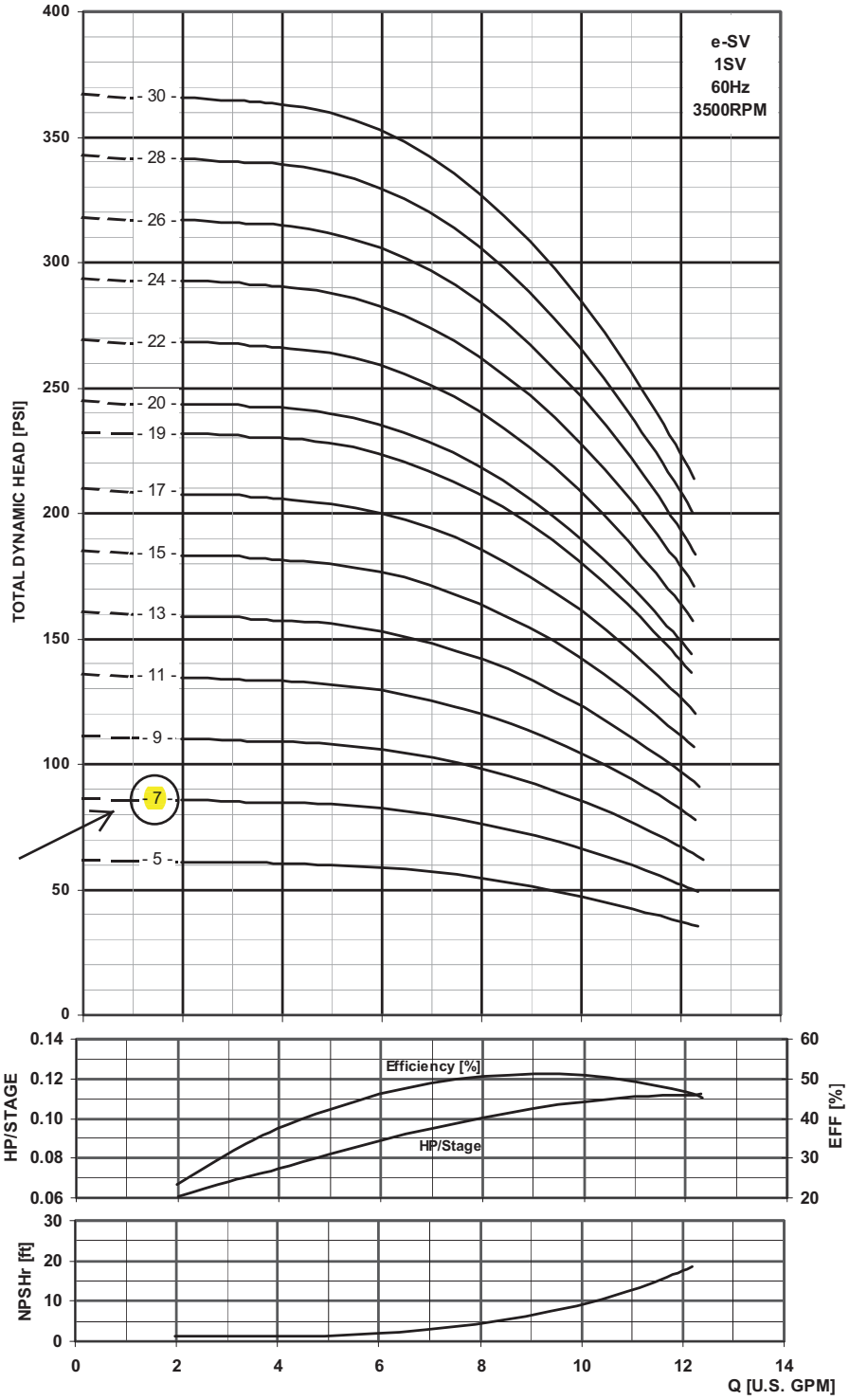
**SHOP ORDER:** **CERTIFIED BY:** **DATE**

ITT

# A-C FIRE PUMP SYSTEMS

PERFORMANCE – CURVES
VERTICAL MULTI STAGE JOCKEY PUMPS
e-SV SERIES

SUPERSEDES ALL PREVIOUS ISSUES



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# A-C FIRE PUMP SYSTEMS

DIMENSIONS AND ENGINEERING DATA
VERTICAL MULTI STAGE JOCKEY PUMPS
e-SV SERIES



SUPERSEDES ALL PREVIOUS ISSUES

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## 60 Hz 3500 RPM

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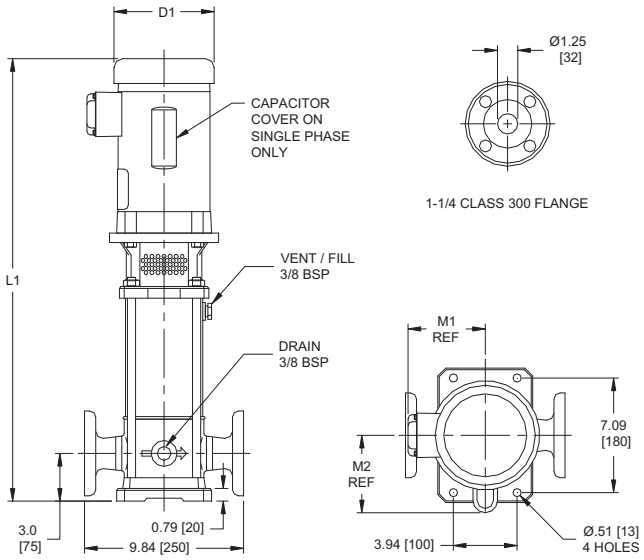


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**SHOP ORDER:** **CERTIFIED BY:** **DATE**

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PERFORMANCE – CURVES
VERTICAL MULTI STAGE JOCKEY PUMPS
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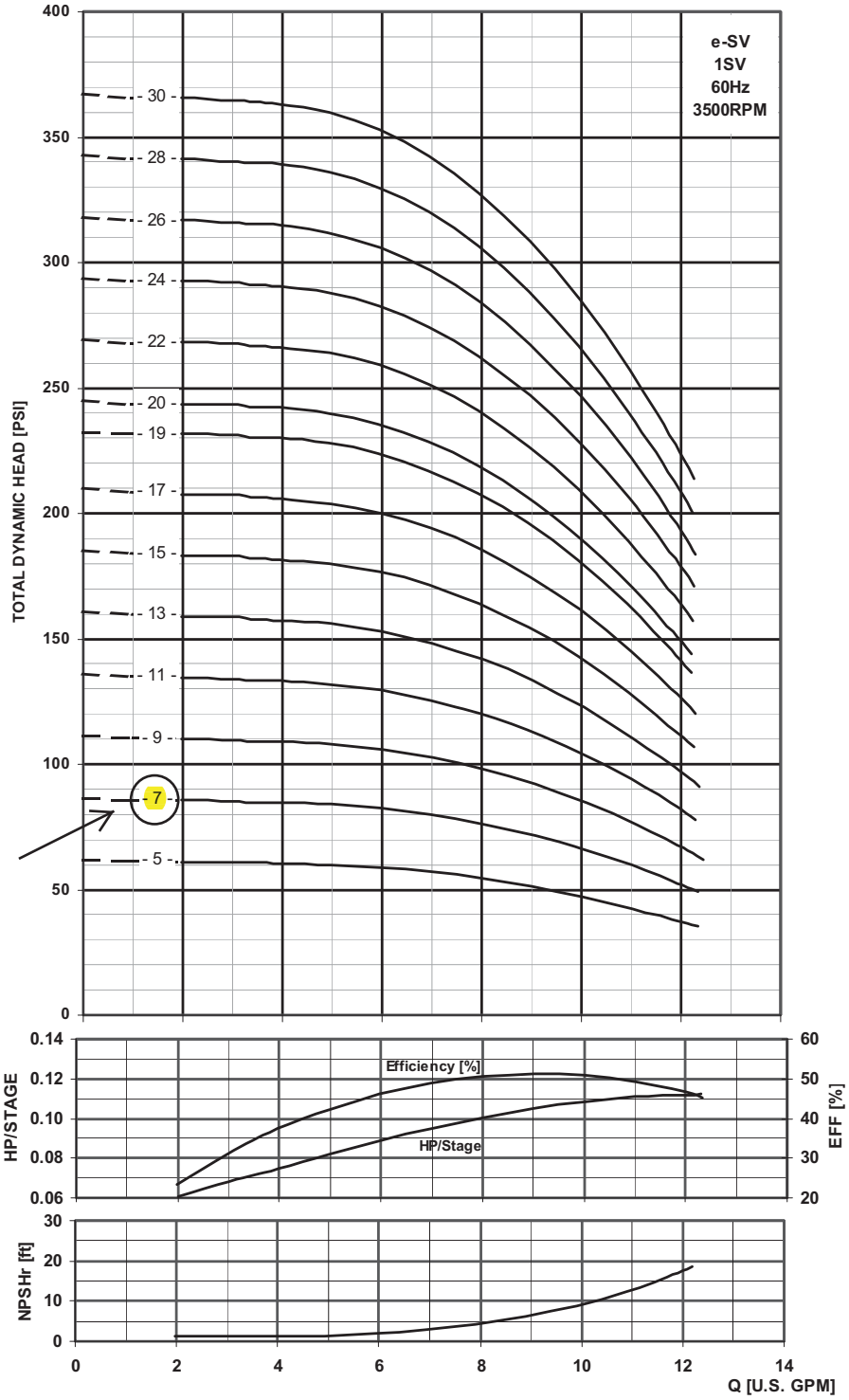
SUPERSEDES ALL PREVIOUS ISSUES



WM TAO & ASSOCIATES
CONSULTING ENGINEERS

# Shop Drawing Submittal Review

Transmitted To: Cannon Design

Date: December 20, 2016

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

Contact Person / WTA Field Inspector: Patrick Garner

Project Name: Webster University-**ISB**

Reviewed by: Mike Whitworth (WES)
Joe Krussel (WTA/Elec)

Project No. WT 14127.01
WES 607

[ ] UPS [ ] Courier [X] **Email**

| Copies | No. | Description |
|---|---|---|
| 1 PDF | 213400F01 | (Submittal No.'s:) |
| | | (Cannon #213400-001) - (Paric #15051-0360) – (WES #607) |
| | | ➢ **Pressure Maintenance Pumps** |
| | | |
| | | |

## *Remarks: See Submittal Review from Webb Enginnering.

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

[X] ***Reviewed**

[X] ***No Exceptions Taken**

[ ]

[ ] *Make Corrections As Noted, No Resubmittal Required

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.

WEBB
ENGINEERING
SERVICES INC.

1400 S. 3rd Street, Suite 201
St. Louis, Missouri 63104
Phone: (314) 588-0600
Fax: (314) 588-0604

# Letter of Transmittal

To: wtashop@wmtao.com

From: Mike Whitworth

Date: December 14, 2016

Re: Webster University ISB

WES No: 607

☐ For your Files ☐ For Review ☐ Please Comment ☐ Please Reply

| Item No. | Description | No. of Copies | Date |
|---|---|---|---|
| 1 | Shop Drawing Review – (213400-001)<br>213400 Pressure Maintenances Pumps | 1 | 12/14/16 |
| | | | |
| | | | |
| | | | |

•Signature: Mike Whitworth

WEBB ENGINEERING SERVICES INC.
www.webb-engineering.com

1400 S. 3rd Street, Suite 201 • St. Louis, Missouri 63104 • 314.588.0600 • *fax* 314.588.0604



| | |
|---|---|
| PROJECT NAME: | Webster University ISB |
| LOCATION: | St. Louis Missouri |
| CLIENT PROJ. NO.: | N/A |
| WES PROJ. NO.: | 607 |
| SPECIFICATION SECTION: | 213400 Pressure Maintenance Pumps |
| SUBMITTAL ITEM: | See Below - |

| | |
|---|---|
| CONTRACTOR: | J.F. Ahern Co. |
| CTR. SUBMITTAL #: | 21 3400-001 |
| SUBMITTAL DATE: | November 30, 2016 |
| DATE RECEIVED: | December 07, 2016 |
| RECEIVED VIA: | E-Mail |
| RECEIVED FROM: | WTA |
| DATE RETURNED: | DECEMBER 14, 2016 |
| RETURNED VIA: | E-MAIL |
| RETRURNED TO: | WTASHOP@WMTAO.COM |

STATUS KEY:

NO EXCEPTION TAKEN
MAKE CORRECTIONS NOTED, NO RESUBMITTAL:
AMEND AND RESUBMIT
REJECTED, SEE REMARKS:
REVIEWED ONLY

| NEC | MCN | AAR | REJ | REV | ITEM | REMARKS |
|---|---|---|---|---|---|---|
| This submittal is to be forwarded to the Electrical Engineer for review of the electrical characteristics.. | | | | | | |
| X | | | | | Pressure Maintenance Pump<br>AC Fire Pump<br>Model – e1SV | |

REVIEWED BY: Michael R. Whitworth DATE: December 14, 2016

THESE COMMENTS ARE TO BE ATTACHED TO ALL COPIES OF THE SHOP DRAWING REFERENCED ABOVE.

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

213400-001
CONTRACTOR / CM SUBMITTAL NO.

CANNON DESIGN SUBMITTAL NO.

DRAWING / DETAIL REFERENCE

213400
SPECIFICATION SECTION / PARAGRAPH

Ahern Fire Protection
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

11/30/16
DATE

**To be completed by Reviewer**

21 3400-001
CANNON DESIGN SUBMITTAL NUMBER

11/30/16
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

REVIEWED BY

DATE

77 Westport Plaza
Suite 250
St. Louis, MO 63146

# TRANSMITTAL

**No. 15051-0360**

*Paric Corporation*

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

**DATE:** 11/30/2016

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

Fax;
314-241-2203

**RE:** Pressure-Maintenance Pumps

**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 | | 213400-001 | 1 | | 11/30/2016 | Pressure-Maintenance Pumps | Submitted |

**NOTES:**

**CC:**

**Signed:** _____

Devin Gates

WEBB
ENGINEERING
SERVICES INC.

1400 S. 3rd Street, Suite 201
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•Signature: Mike Whitworth

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| | |
|---|---|
| PROJECT NAME: | Webster University ISB |
| LOCATION: | St. Louis Missouri |
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| SPECIFICATION SECTION: | 213400 Pressure Maintenance Pumps |
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REVIEWED BY: Michael R. Whitworth DATE: December 14, 2016

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REVIEWED BY

11/30/16
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REVIEWED BY

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Suite 250
St. Louis, MO 63146

# TRANSMITTAL

**No. 15051-0360**

*Paric Corporation*

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

**DATE:** 11/30/2016

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

Fax;
314-241-2203

**RE:** Pressure-Maintenance Pumps

**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 | | 213400-001 | 1 | | 11/30/2016 | Pressure-Maintenance Pumps | Submitted |

**NOTES:**

**CC:**

**Signed:** _____

Devin Gates