

Item No.	Qty.	Catalog Number / Details
067-00	1	Designation: 1SH1 - 1SL1 INTEGRATED SOLUTIONS Square D Integrated Power Center Designation: 1SH1 - 1SL1 Tested In Accordance With UL 891 Accessibility: Front Enclosure: Type 1 Seismically Qualified Shipping splits: Square D Preference Phenolic White Surface / Black Letters Nameplate Total Number of Sections: 2 Release - 3/1/2016, Processed - 6/7/2016 2:11:14 PM Section 1 1 single cell Integrated Power Center 2 Section Width: 42 in Section Depth: 24 in Section Height: 91.5 in ANSI 49 Gray No section to left (closed end) Orders containing 15 or more INEQ sections may be delivered in staggered shipments: 10 units based on the product lead time, with 10 additional units each week after, until order is complete. Contact Salisbury customer service to prioritize shipments. Transformer Combo to right Designation: 1SH1 I-Line Panel Interior Location: Single Cell-Section 1 480Y/277V 3Ph 4W 60Hz AIR: 25k System Protection: Fully Rated 400A Backfed Breaker Thermal Mag - Standard Aluminum/Copper lugs Mechanical Lugs Bus Bar: Copper 99" of circuit breaker mounting space Hinged trim Ground Bar: Standard Copper Door Lock w/keys Neutral: Copper Included SPD Surge Suppression Peak Surge Rating: 100 kA With Dry Contacts With Surge Counter Fed from Cable by others - Bottom Phenolic White Surface / Black Letters Nameplate Branch Breakers

Item No.	Qty.	Catalog Number / Details
		1 - JGA36225 225A - 3 P - Thermal-Magnetic 1 - FH34070 70A - 3 P - Thermal-Magnetic 3 - FH34060 60A - 3 P - Thermal-Magnetic 1 - FH34045 45A - 3 P - Thermal-Magnetic 2 - FH34035 35A - 3 P - Thermal-Magnetic 3 - FH34015 15A - 3 P - Thermal-Magnetic 3 - FA100 100A - 3 pole PS P - Thermal-Magnetic Section 2 1 cell over 1 cell Transformer Combo Section Width: 30 in Section Depth: 24 in Section Height: 91.5 in ANSI 49 Gray Integrated Power Center to left Orders containing 15 or more INEQ sections may be delivered in staggered shipments: 10 units based on the product lead time, with 10 additional units each week after, until order is complete. Contact Salisbury customer service to prioritize shipments. Designation: 1SL1 NQ Panel Interior Location: Top - Section 2 208Y/120V 3Ph 4W 60Hz AIR: 10k System Protection: Fully Rated Main Breaker: 150A Aluminum/Copper lugs Mechanical Lugs Bus Bar: Copper Hinged trim Ground Bar: Standard Copper Door Lock w/keys Neutral: Copper Fed from transformer secondary Section 2 - T-1SL1 Phenolic White Surface / Black Letters Nameplate Branch Breakers (32) 20A 1P C/B - Branch Circuit Breaker (1) 150A 3P C/B - Branch Circuit Breaker (2) 30A 2P C/B - Branch Circuit Breaker Designation: T-1SL1 Low Voltage Energy Efficient Transformer Location: Bottom - Section 2 45kVA Three Phase 480V-208Y/120V Aluminum Windings EX45T3H

Q2C Number: 37999262

Quote Number: 3

Revision Number: 0

Project Name: WEBSTER UNIVERSITY ISB

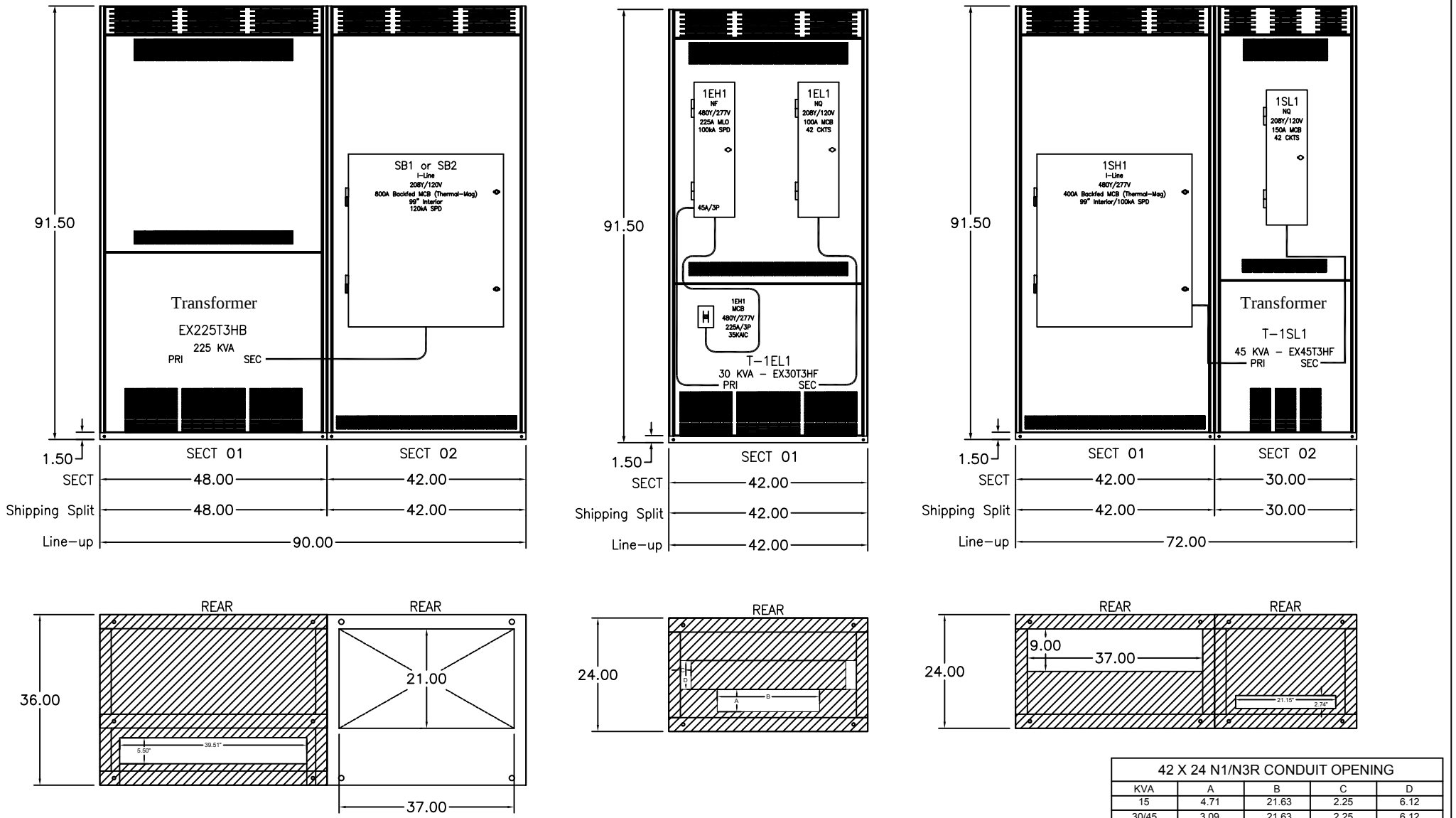
Quote Name: REVISED PER ADD #2

Item No.	Qty.	Catalog Number / Details
		220 Degree C Insulation, 150 deg C rise Fed from I-Line Panel Section 1 - 1SH1 Phenolic White Surface / Black Letters Nameplate With the following engineered special feature: TAG number: EX45T3HF Description 1: Substitute above xfmr for Description 2: selected one Quantity Question : 1

Front Elevation and Footprint for Equipment Line-Up

LEGEND

- FACTORY SUPPLIED CABLE



INDICATES EQUIPMENT THAT INTERFERES WITH CONDUIT ENTRY

42 X 24 N1/N3R CONDUIT OPENING				
KVA	A	B	C	D
15	4.71	21.63	2.25	6.12
30/45	3.09	21.63	2.25	6.12
75	5.2	7.92	2.25	6.12
112	4.71	8.13	2.25	6.12

Shop Drawing Submittal Review

Transmitted To: Cannon Design

Date: July 19, 2016

Attention: stl-cac@cannondesign.com

Contact Person / WTA Field Inspector:
Patrick Garner

Project Name: Webster University-**ISB**

Reviewed by: Bill Shaw

Project No. WT 14127.01

☐

UPS

☐

Courier

☒

Email

Copies	No.	Description
1 PDF	264000E01	(Submittal No. 264000-001) Electrical Distribution

Submittal Review Comments

Circuit breaker size and position shall match panel schedules on sheets E0503, 504, 505, & 506.

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.

WTASHOP - Webster ISB - 26 4000-001

From: STL-CAC <STL-CAC@CANNONDESIGN.COM>
To: 'Patrick Garner' <pgarner@wmtao.com>, WTASHOP <wtashop@wmtao.com>
Date: 7/5/2016 11:40 AM
Subject: Webster ISB - 26 4000-001
Cc: "Patel, Kelvin" <kpatel@CANNONDESIGN.COM>, "Grossman, Lynn" <lgrossman@C...>
Attachments: 264000-001 Electrical Distribution.pdf

Attached for review.

Melissa Pirtle
Construction Admin

CANNONDESIGN

1100 Clark Ave
St. Louis, Missouri 63102
T [314.425.8797](tel:314.425.8797) • M
cannondesign.com

SUBMITTAL IDENTIFICATION SHEET

To be completed by Contractor/CM

PROJECT NAME	
ADDRESS	
NUMBER	
OWNER	
ARCHITECT / ENGINEER	
SUBMITTED BY	
CONTRACTOR / CM SUBMITTAL NO.	CANNON DESIGN SUBMITTAL NO.
DRAWING / DETAIL REFERENCE	SPECIFICATION SECTION / PARAGRAPH
MANUFACTURER / SUPPLIER	ITEM / PRODUCT ID
REQUIRED DATE	PRIORITY
CRITICALITY	

To be completed by Reviewer

CANNON DESIGN SUBMITTAL NUMBER
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.

ITEM BEING SUBMITTED (check only one)

- ☐ Shop Drawings ☐ Certification / Qualifications ☐ Coordination Drawing
☐ Samples ☐ Record Documents ☐ Calculations
 (_____ copies) ☐ Product Data ☐ Schedules
☐ LEED Submittal ☐ 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 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.

Ry:

By:
Devin D. Gates

REVIEWED BY	DATE

A/E COMMENTS

- ☐
- See attached sheet(s) for additional comments

REVIEWED BY	DATE



77 Westport Plaza
Suite 250
St. Louis, MO 63146

TRANSMITTAL

No. 15051-0114

Paric Corporation

PROJECT: 15051-Webster University Interdisciplinary Science Building

DATE: 07/05/2016

TO: Cannon Design
1100 Clark Ave
St Louis MO 63102

RE: Electrical Distribution

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		264000-001	1		07/05/2016	Electrical Distribution	Submitted

NOTES:

CC: Paric Corporation, Kathy Bathe

Project Coordinator: Paric Corporation, Kathy Bathe

Signed: _____
Devin Gates

Transmittal

To Paric Corporation

Date 7/1/16

Job Number 11317

Job Name Webster Univ. ISB Building

Attention Devin Gates

Transmittal Number 11317-005

We are sending you:

☒ Attached

☐ Under separate cover, the following:

☐ Preliminary Drawings

☐ Samples

☐ Construction Drawings

☐ Copy of Letter

☐ Specifications

☐ Other _____

Quantity	Drawing #	Date/Revision	Description
1			Submittal for Distribution - Spec Section
			26 40 00

These are transmitted as checked:

☒ For Your Review & Comment

☐ Approved As Noted

☒ For Approval

☐ Returned For Corrections

☐ For Your File

☐ Approved As Submitted

☐ As Requested

☐

Copy:

Transmittal

Enclosure

Rick Branstetter

Signed: Rick Branstetter, Project Manager

Webster University ISB

Approval Drawing Package

Factory Order #: 37999262

06/13/2016

Distributor:
Graybar

Contractor/Installer:
Guarantee Electric / TD4

Consulting Engineer:
Wm Tao & Associates

Lou Feldhaus
Sales Representative

Jake Kaufman
Project Manager
North American Operating Division
(636) 329-2265
jacob.kaufman@schneider-electric.com

Life Is On

Schneider
Electric

TABLE OF CONTENTS

UNIT SUBSTATIONS

BILL OF MATERIALS AND DRAWINGS

UNIT SUBSTATION 1: US-1

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POWER-DRY II TRANSFORMER: US-1

SWITCHBOARD: US-1

UNIT SUBSTATION LITERATURE

Unit Substation Brochure

HVL 5...38 kV Load Interrupter Switchgear - Brochure

Power Dry II- Dry-Type, Small Power Transformer Brochure

Model 98A Digital Temperature Controller For Medium Voltage Transformers

Power-Style QED-2 Switchboard Brochure

Internal Modular SPD Brochure

PowerLogic PM8000 Series Intermediate Metering Technical Data Sheet

NW Breaker Brochure

Micrologic Trip Units for Masterpact Circuit Breakers Brochure

INTEGRATED POWER CENTERS

BILL OF MATERIALS AND DRAWINGS

SB1

SB2

1EH1 - 1EL1

1EL1

1SH1 - 1SL1

LITERATURE

Integrated Power Center 2 (IPC2)

PANELBOARDS

PANELBOARD SCHEDULE AND DRAWINGS

LITERATURE

I-Line Panelboard Handout

NF Panelboard Handout

NQ Panelboard Handout

I-Line SPD

Internal Modular SPD Brochure

SurgeLoc SPD for NQ Panelboards

CONTACTORS AND STARTERS

BILL OF MATERIALS AND DRAWINGS

8538SCG

8538SCA - EF-1

8538SCA - KEF-1

2510FG

LITERATURE

Manual Starters - Type F

Manual Starters - Type M and T

8538 Combination Starter Catalog

SAFETY SWITCHES

BILL OF MATERIALS AND DRAWINGS

D211N

H365

HU361

H361

HU362

POWER MONITORING AND CONTROL

BILL OF MATERIALS

LITERATURE

MCTAS-485 Terminator

FUSE

BILL OF MATERIALS

LITERATURE

LPJ Fuses 1 - 60 Amps

LPJ Fuses 70 - 600 Amps