REV	DESCRIPTION	BY	DATE				
–	----	--	--/--/--	–	----	--	--/--/--

CKT NO	ACCESSORIES	TYPE	RATING AMP/P	S/N
	Surge Counter Dry Contacts	SPD 100kA/3		
13		QOB	20/1	
15		QOB	20/1	
17		QOB	20/1	
19		QOB	20/1	
21		QOB	20/1	
23		QOB	20/1	
25		QOB	20/1	
27		QOB	20/1	
29		QOB	20/1	
31		QOB	20/1	
33		QOB	20/1	
35		QOB	20/1	
37		QOB	20/1	
39		QOB	20/1	
41		QOB	20/1	
43		QOB	20/1	
45		QOB	20/1	
47		QOB	20/1	
49		QOB	20/1	
51		QOB	20/1	
53		QOB	20/1	

S/N	RATING AMP/P	TYPE	ACCESSORIES	CKT NO
		SPD 100kA/3	Surge Counter Dry Contacts	
	20/1	QOB		14
	20/1	QOB		16
	20/1	QOB		18
	20/1	QOB		20
	20/1	QOB		22
	20/1	QOB		24
	20/1	QOB		26
	20/1	QOB		28
	20/1	QOB		30
	20/1	QOB		32
	20/1	QOB		34
	20/1	QOB		36
	20/1	QOB		38
	20/1	QOB		40
	20/1	QOB		42
	20/1	QOB		44
	20/1	QOB		46
	20/1	QOB		48
	20/1	QOB		50
	20/1	QOB		52
	20/1	QOB		54

PHYSICAL DATA

ENCLOSURE Type 1
Surface with Door
FRONT CAT#: NC38S
BOX CAT#: MH38BE
DIMENSIONS:
38"H x 20"W x 5.75"D
WIRE BENDING SPACE:
TOP – 9.26
BOTTOM – 5
SIDE – 6.13
PBA: 701A
BUSSING: Copper
Silver/Tin Plated
OPTIONAL FEATURES:
SEISMICALLY QUALIFIED : IBC/ASCE7
SHIP TOGETHER
Copper GROUND BAR
(Continued on next page.)

ELECTRICAL DATA

SYSTEM: 208Y/120V 3Ph 4W 60Hz
System Ampacity: 225A
10kA SYMS. SCCR
MAIN: MAIN LUGS : 225A
Top FEED
INCOMING CONDUCTORS(S) PER NEC
Wire Bending Space:
#6 – 350 kcmil
BRANCH MOUNTING TYPE: BOLT-ON
----------BRANCH SUMMATION----------
42 – 20A/1P QOB

JOB NAME:	WEBSTER UNIVERSITY ISB
JOB LOCATION:	WEBSTER GROVES MO
DRAWN BY:	(Q2C)
ENGR:	
DATE:	August 03 2016
DRAWING STATUS:	QUOTE

EQUIPMENT DESIGNATION:	1LL1
EQUIPMENT TYPE:	NQ (Circuit Breaker Type) PANEL 1 OF 1
DRAWING TYPE:	ONE LINE DIAGRAM

SQUARE D by Schneider Electric

DWG# 037999262-01 | PG 1 OF 2 | REV –

REV	DESCRIPTION	BY	DATE	-	----	--	--/--/--
-	----	--	--/--/--	-	----	--	--/--/--

PHYSICAL DATA CONTINUED

BLANK ENDWALLS
COPPER SOLID NEUTRAL
SPD DRY CONTACTS
SPD SURGE COUNTER
SPD PEAK SURGE RATING/PHASE: 100kA
SPD LINE TO GRD PROTECT

----------STANDARD EQUIPMENT NAMEPLATE----------

Engraved as Follows
LINE 1: 1LL1
COLOR: White Surface / Black Letters
SIZE: 3.50" Wide x 1.00" High (Std)
TYPE: Plastic/Adhesive - Screw-on

JOB NAME:	WEBSTER UNIVERSITY ISB	EQUIPMENT DESIGNATION:	1LL1
JOB LOCATION:	WEBSTER GROVES MO	EQUIPMENT TYPE:	NQ (Circuit Breaker Type) PANEL 1 OF 1
DRAWN BY:	(Q2C)	DRAWING TYPE:	ONE LINE DIAGRAM
ENGR:			SQUARE D by Schneider Electric
DATE:	August 03 2016		
DRAWING STATUS:	QUOTE	DWG# 037999262-01	PG 2 OF 2 REV -

Q2C Number: 37999262	Quote Number: 3	Change Order Rev Number: 4
Project Name: WEBSTER UNIVERSITY ISB		Quote Name: PANEL USER PLACEMENT

Item No.	Qty.	Catalog Number / Details
010-00	1	**Designation:** BNH1 NF MB PNLB (INT,BOX,TRIM) NF Panelboard Consisting of 480Y/277V 3Ph 4W 60Hz SCCR: 22kA Fully Rated Single Main: 400A/3P LA Circuit Breaker Incoming Conductors: 1 - #1 - 600,(2)#1 - 250 kcmil Bus: Copper: Silver/Tin Plated CU Ground Bar 42 Circuit Interior Type 1,Box: 86H x 20W x 5.75D Incoming: Bottom Trim: Surface with Door Box Cat No: MH86BE Front Cat No: NC86VS Ref. Drawing: PBA554 Feeders: 2 - Sub-Feed Circuit Breakers: 200A/3P JG 3 - 15A/3P EGB 2 - 70A/3P EGB 2 - 45A/3P EGB 18 - 20A/1P EGB Prepared Space 3 - 20A/1P EGB Optional Features: Ship Together,Blank Endwalls,Copper Solid Neutral,Seismic Qualification - IBC/ASCE7,Copper Ground Bar Branch User Placement Standard Nameplate: Engraved as Follows Line 1: BNH1 Size: 3.50" Wide x 1.00" High (Std) Color: White Surface / Black Letters Plastic/Adhesive - Screw-on
011-00	1	**Designation:** 1NH1 NF MB PNLB (INT,BOX,TRIM) NF Panelboard Consisting of 480Y/277V 3Ph 4W 60Hz SCCR: 22kA Fully Rated Single Main: 175A/3P JG Circuit Breaker Main Acc: Feed Thru Lugs Incoming Conductors: 1 - #4 - 4/0 AWG Bus: Copper: Silver/Tin Plated CU Ground Bar 42 Circuit Interior Type 1,Box: 68H x 20W x 5.75D Incoming: Bottom Trim: Surface with Door Box Cat No: MH68BE Front Cat No: NC68S Ref. Drawing: PBA553 Feeders: 30 - 20A/1P EGB 12 - 20A/1P EGB Prepared Space Optional Features: Ship Together,Blank Endwalls,Copper Solid Neutral,Seismic Qualification - IBC/ASCE7,Copper Ground Bar Standard Nameplate: Engraved as Follows Line 1: 1NH1 Size: 3.50" Wide x 1.00" High (Std)

Q2C Number: 37999262 **Quote Number:** 3 **Change Order Rev Number:** 4
Project Name: WEBSTER UNIVERSITY ISB **Quote Name:** PANEL USER PLACEMENT

Item No.	Qty.	Catalog Number / Details
		Color: White Surface / Black Letters Plastic/Adhesive - Screw-on
012-00	1	**Designation:** 1NH2 NF ML PNLB (INT,BOX,TRIM) NF Panelboard Consisting of 480Y/277V 3Ph 4W 60Hz SCCR: 22kA Fully Rated Main Lug Only: 225A Incoming Conductors: 1 - #6 - 350 kcmil Bus: Copper: Silver/Tin Plated CU Ground Bar 30 Circuit Interior Type 1,Box: 38H x 20W x 5.75D Incoming: Top Trim: Surface with Door Box Cat No: MH38BE Front Cat No: NC38S Ref. Drawing: PBA550 Feeders: 4 - 15A/3P EGB 12 - 20A/1P EGB Prepared Space 1 - 70A/3P EGB 1 - 40A/3P EGB Optional Features: Ship Together,Blank Endwalls,Copper Solid Neutral,Seismic Qualification - IBC/ASCE7,Copper Ground Bar Branch User Placement Standard Nameplate: Engraved as Follows Line 1: 1NH2 Size: 3.50" Wide x 1.00" High (Std) Color: White Surface / Black Letters Plastic/Adhesive - Screw-on
013-00	1	**Designation:** 2NH1 NF MB PNLB (INT,BOX,TRIM) NF Panelboard Consisting of 480Y/277V 3Ph 4W 60Hz SCCR: 22kA Fully Rated Single Main: 175A/3P JG Circuit Breaker Main Acc: Feed Thru Lugs Incoming Conductors: 1 - #4 - 4/0 AWG Bus: Copper: Silver/Tin Plated CU Ground Bar 42 Circuit Interior Type 1,Box: 68H x 20W x 5.75D Incoming: Bottom Trim: Surface with Door Box Cat No: MH68BE Front Cat No: NC68S Ref. Drawing: PBA553 Feeders: 30 - 20A/1P EGB 12 - 20A/1P EGB Prepared Space Optional Features: Ship Together,Blank Endwalls,Copper Solid Neutral,Seismic Qualification - IBC/ASCE7,Copper Ground Bar Standard Nameplate: Engraved as Follows Line 1: 2NH1

Q2C Number: 37999262	Quote Number: 3	Change Order Rev Number: 4
Project Name: WEBSTER UNIVERSITY ISB		Quote Name: PANEL USER PLACEMENT

Item No.	Qty.	Catalog Number / Details
		Size: 3.50" Wide x 1.00" High (Std) Color: White Surface / Black Letters Plastic/Adhesive - Screw-on
014-00	1	**Designation:** 3NH1 NF MB PNLB (INT,BOX,TRIM) NF Panelboard Consisting of 480Y/277V 3Ph 4W 60Hz SCCR: 22kA Fully Rated Single Main: 175A/3P JG Circuit Breaker Main Acc: Feed Thru Lugs Incoming Conductors: 1 - #4 - 4/0 AWG Bus: Copper: Silver/Tin Plated CU Ground Bar 42 Circuit Interior Type 1,Box: 68H x 20W x 5.75D Incoming: Bottom Trim: Surface with Door Box Cat No: MH68BE Front Cat No: NC68S Ref. Drawing: PBA553 Feeders: 24 - 20A/1P EGB 12 - 20A/1P EGB Prepared Space 2 - 35A/3P EGB Optional Features: Ship Together,Blank Endwalls,Copper Solid Neutral,Seismic Qualification - IBC/ASCE7,Copper Ground Bar Branch User Placement Standard Nameplate: Engraved as Follows Line 1: 3NH1 Size: 3.50" Wide x 1.00" High (Std) Color: White Surface / Black Letters Plastic/Adhesive - Screw-on
015-00	1	**Designation:** 4NH1 NF MB PNLB (INT,BOX,TRIM) NF Panelboard Consisting of 480Y/277V 3Ph 4W 60Hz SCCR: 22kA Fully Rated SPD 120kA per Phase/60kA per Mode SPD line to grd protect w/SPD Surge Counter w/SPD Dry Contacts Single Main: 225A/3P JG Circuit Breaker Incoming Conductors: 1 - 3/0 - 350 kcmil Bus: Copper: Silver/Tin Plated CU Ground Bar 42 Circuit Interior Type 1,Box: 68H x 20W x 5.75D Incoming: Bottom Trim: Surface with Door Box Cat No: MH68BE Front Cat No: NC68S Ref. Drawing: PBA553T Feeders: 21 - 20A/1P EGB 12 - 20A/1P EGB Prepared Space 1 - 20A/3P EGB 2 - 15A/3P EGB Optional Features:

Q2C Number: 37999262	Quote Number: 3	Change Order Rev Number: 4
Project Name: WEBSTER UNIVERSITY ISB		Quote Name: PANEL USER PLACEMENT

Item No.	Qty.	Catalog Number / Details
		Ship Together,Blank Endwalls,Copper Solid Neutral,Seismic Qualification - IBC/ASCE7,Copper Ground Bar Branch User Placement Standard Nameplate: Engraved as Follows Line 1: 4NH1 Size: 3.50" Wide x 1.00" High (Std) Color: White Surface / Black Letters Plastic/Adhesive - Screw-on
016-00	1	**Designation:** 4SH1 NF MB PNLB (INT,BOX,TRIM) NF Panelboard Consisting of 480Y/277V 3Ph 4W 60Hz SCCR: 22kA Fully Rated SPD 120kA per Phase/60kA per Mode SPD line to grd protect w/SPD Surge Counter w/SPD Dry Contacts Single Main: 150A/3P JG Circuit Breaker Incoming Conductors: 1 - #4 - 4/0 AWG Bus: Copper: Silver/Tin Plated CU Ground Bar 30 Circuit Interior Type 1,Box: 62H x 20W x 5.75D Incoming: Bottom Trim: Surface with Door Box Cat No: MH62BE Front Cat No: NC62S Ref. Drawing: PBA553T Feeders: 3 - 70A/3P EGB 1 - 15A/3P EGB 18 - 20A/1P EGB Prepared Space Optional Features: Ship Together,Blank Endwalls,Copper Solid Neutral,Seismic Qualification - IBC/ASCE7,Copper Ground Bar Branch User Placement Standard Nameplate: Engraved as Follows Line 1: 4SH1 Size: 3.50" Wide x 1.00" High (Std) Color: White Surface / Black Letters Plastic/Adhesive - Screw-on
017-00	1	**Designation:** BNL1 NQ MB PNLB (INT,BOX,TRIM) NQ Panelboard Consisting of 208Y/120V 3Ph 4W 60Hz SCCR: 10kA Fully Rated Single Main: 225A/3P QB Circuit Breaker Incoming Conductors: 1 - #4 - 300 kcmil Bus: Copper: Silver/Tin Plated CU Ground Bar 42 Circuit Interior Type 1,Box: 50H x 20W x 5.75D Incoming: Bottom Trim: Surface with Door Box Cat No: MH50BE Front Cat No: NC50S Ref. Drawing: PBA707A

Q2C Number: 37999262	Quote Number: 3	Change Order Rev Number: 4
Project Name: WEBSTER UNIVERSITY ISB		Quote Name: PANEL USER PLACEMENT

Item No.	Qty.	Catalog Number / Details
		Feeders: 24 - 20A/1P QOB 3 - 25A/2P QOB 1 - 30A/1P QOB 1 - 15A/1P QOB 10 - 20A/1P QOB Prepared Space Optional Features: Ship Together,Blank Endwalls,Copper Solid Neutral,Seismic Qualification - IBC/ASCE7,Copper Ground Bar Branch User Placement Standard Nameplate: Engraved as Follows Line 1: BNL1 Size: 3.50" Wide x 1.00" High (Std) Color: White Surface / Black Letters Plastic/Adhesive - Screw-on
018-00	1	**Designation:** 1NL2 NQ ML PNLB (INT,BOX,TRIM) NQ Panelboard Consisting of 208Y/120V 3Ph 4W 60Hz SCCR: 10kA Fully Rated Main Lug Only: 225A Incoming Conductors: 1 - #6 - 350 kcmil Bus: Copper: Silver/Tin Plated CU Ground Bar 54 Circuit Interior Type 1,Box: 38H x 20W x 5.75D Incoming: Top Trim: Surface with Door Box Cat No: MH38BE Front Cat No: NC38S Ref. Drawing: PBA701A Feeders: 39 - 20A/1P QOB 3 - 15A/1P QOB 1 - 100A/2P QOB 1 - 60A/2P QOB 1 - 30A/1P QOB 1 - 30A/2P QOB 2 - 20A/1P QOB ST Optional Features: Ship Together,Blank Endwalls,Copper Solid Neutral,Seismic Qualification - IBC/ASCE7,Copper Ground Bar Branch User Placement Standard Nameplate: Engraved as Follows Line 1: 1NL2 Size: 3.50" Wide x 1.00" High (Std) Color: White Surface / Black Letters Plastic/Adhesive - Screw-on
019-00	1	**Designation:** 1NL1 NQ MB PNLB (INT,BOX,TRIM) NQ Panelboard Consisting of 208Y/120V 3Ph 4W 60Hz SCCR: 10kA Fully Rated Single Main: 225A/3P QB Circuit Breaker Main Acc: Feed Thru Lugs

Q2C Number: 37999262	Quote Number: 3	Change Order Rev Number: 4
Project Name: WEBSTER UNIVERSITY ISB		Quote Name: PANEL USER PLACEMENT

Item No.	Qty.	Catalog Number / Details
		Incoming Conductors: 1 - #4 - 300 kcmil Bus: Copper: Silver/Tin Plated CU Ground Bar 72 Circuit Interior Type 1,Box: 62H x 20W x 5.75D Incoming: Bottom Trim: Surface with Door Box Cat No: MH62BE Front Cat No: NC62S Ref. Drawing: PBA707A Feeders: 55 - 20A/1P QOB 2 - 15A/1P QOB 1 - 30A/1P QOB 1 - 30A/2P QOB Optional Features: Ship Together,Blank Endwalls,Copper Solid Neutral,Seismic Qualification - IBC/ASCE7,Copper Ground Bar Branch User Placement Standard Nameplate: Engraved as Follows Line 1: 1NL1 Size: 3.50" Wide x 1.00" High (Std) Color: White Surface / Black Letters Plastic/Adhesive - Screw-on
020-00	1	**Designation:** 1NL3 NQ MB PNLB (INT,BOX,TRIM) NQ Panelboard Consisting of 208Y/120V 3Ph 4W 60Hz SCCR: 10kA Fully Rated Single Main: 225A/3P QB Circuit Breaker Incoming Conductors: 1 - #4 - 300 kcmil Bus: Copper: Silver/Tin Plated CU Ground Bar 42 Circuit Interior Type 1,Box: 50H x 20W x 5.75D Incoming: Bottom Trim: Surface with Door Box Cat No: MH50BE Front Cat No: NC50S Ref. Drawing: PBA707A Feeders: 41 - 20A/1P QOB 1 - 15A/1P QOB Optional Features: Ship Together,Blank Endwalls,Copper Solid Neutral,Seismic Qualification - IBC/ASCE7,Copper Ground Bar Branch User Placement Standard Nameplate: Engraved as Follows Line 1: 1NL3 Size: 3.50" Wide x 1.00" High (Std) Color: White Surface / Black Letters Plastic/Adhesive - Screw-on
021-00	1	**Designation:** 2NL1 NQ MB PNLB (INT,BOX,TRIM) NQ Panelboard Consisting of 208Y/120V 3Ph 4W 60Hz SCCR: 10kA Fully Rated

Q2C Number: 37999262	Quote Number: 3	Change Order Rev Number: 4
Project Name: WEBSTER UNIVERSITY ISB		Quote Name: PANEL USER PLACEMENT

Item No.	Qty.	Catalog Number / Details
		Single Main: 225A/3P QB Circuit Breaker Incoming Conductors: 1 - #4 - 300 kcmil Bus: Copper: Silver/Tin Plated CU Ground Bar 72 Circuit Interior Type 1,Box: 56H x 20W x 5.75D Incoming: Bottom Trim: Surface with Door Box Cat No: MH56BE Front Cat No: NC56S Ref. Drawing: PBA707A Feeders: 55 - 20A/1P QOB 2 - 15A/1P QOB 1 - 30A/1P QOB 1 - 20A/2P QOB Optional Features: Ship Together,Blank Endwalls,Copper Solid Neutral,Seismic Qualification - IBC/ASCE7,Copper Ground Bar Branch User Placement Standard Nameplate: Engraved as Follows Line 1: 2NL1 Size: 3.50" Wide x 1.00" High (Std) Color: White Surface / Black Letters Plastic/Adhesive - Screw-on
022-00	1	**Designation:** 3NL1 NQ MB PNLB (INT,BOX,TRIM) NQ Panelboard Consisting of 208Y/120V 3Ph 4W 60Hz SCCR: 10kA Fully Rated Single Main: 225A/3P QB Circuit Breaker Main Acc: Feed Thru Lugs Incoming Conductors: 1 - #4 - 300 kcmil Bus: Copper: Silver/Tin Plated CU Ground Bar 72 Circuit Interior Type 1,Box: 62H x 20W x 5.75D Incoming: Bottom Trim: Surface with Door Box Cat No: MH62BE Front Cat No: NC62S Ref. Drawing: PBA707A Feeders: 57 - 20A/1P QOB 1 - 30A/1P QOB 1 - 20A/2P QOB Optional Features: Ship Together,Blank Endwalls,Copper Solid Neutral,Seismic Qualification - IBC/ASCE7,Copper Ground Bar Branch User Placement Standard Nameplate: Engraved as Follows Line 1: 3NL1 Size: 3.50" Wide x 1.00" High (Std) Color: White Surface / Black Letters Plastic/Adhesive - Screw-on
023-00	1	**Designation:** 4NL1 NQ MB PNLB (INT,BOX,TRIM) NQ Panelboard

Q2C Number: 37999262	Quote Number: 3	Change Order Rev Number: 4
Project Name: WEBSTER UNIVERSITY ISB		Quote Name: PANEL USER PLACEMENT

Item No.	Qty.	Catalog Number / Details
		Consisting of 208Y/120V 3Ph 4W 60Hz SCCR: 10kA Fully Rated SPD 100kA per Phase/50kA per Mode SPD line to grd protect w/SPD Surge Counter w/SPD Dry Contacts Single Main: 225A/3P QB Circuit Breaker Incoming Conductors: 1 - #4 - 300 kcmil Bus: Copper: Silver/Tin Plated CU Ground Bar 72 Circuit Interior Type 1,Box: 56H x 20W x 5.75D Incoming: Bottom Trim: Surface with Door Box Cat No: MH56BE Front Cat No: NC56S Ref. Drawing: PBA707A Feeders: 1 - 15A/3P QOB 43 - 20A/1P QOB 1 - 20A/2P QOB 1 - 30A/2P QOB 2 - 25A/2P QOB Optional Features: Ship Together,Blank Endwalls,Copper Solid Neutral,Seismic Qualification - IBC/ASCE7,SPD Model BIA,Copper Ground Bar Branch User Placement Standard Nameplate: Engraved as Follows Line 1: 4NL1 Size: 3.50" Wide x 1.00" High (Std) Color: White Surface / Black Letters Plastic/Adhesive - Screw-on
024-00	1	**Designation:** 1LL1 NQ ML PNLB (INT,BOX,TRIM) NQ Panelboard Consisting of 208Y/120V 3Ph 4W 60Hz SCCR: 10kA Fully Rated SPD 100kA per Phase/50kA per Mode SPD line to grd protect w/SPD Surge Counter w/SPD Dry Contacts Main Lug Only: 225A Incoming Conductors: 1 - #6 - 350 kcmil Bus: Copper: Silver/Tin Plated CU Ground Bar 54 Circuit Interior Type 1,Box: 38H x 20W x 5.75D Incoming: Top Trim: Surface with Door Box Cat No: MH38BE Front Cat No: NC38S Ref. Drawing: PBA701A Feeders: 42 - 20A/1P QOB Optional Features: Ship Together,Blank Endwalls,Copper Solid Neutral,Seismic Qualification - IBC/ASCE7,SPD Model BIA,Copper Ground Bar Standard Nameplate: Engraved as Follows

Q2C Number: 37999262	Quote Number: 3	Change Order Rev Number: 4
Project Name: WEBSTER UNIVERSITY ISB		Quote Name: PANEL USER PLACEMENT

Item No.	Qty.	Catalog Number / Details
		Line 1: 1LL1 Size: 3.50" Wide x 1.00" High (Std) Color: White Surface / Black Letters Plastic/Adhesive - Screw-on
025-00	1	**Designation:** 1LL2 NQ MB PNLB (INT,BOX,TRIM) NQ Panelboard Consisting of 208Y/120V 3Ph 4W 60Hz SCCR: 10kA Fully Rated SPD 100kA per Phase/50kA per Mode SPD line to grd protect w/SPD Surge Counter w/SPD Dry Contacts Single Main: 225A/3P QB Circuit Breaker Incoming Conductors: 1 - #4 - 300 kcmil Bus: Copper: Silver/Tin Plated CU Ground Bar 72 Circuit Interior Type 1,Box: 56H x 20W x 5.75D Incoming: Bottom Trim: Flush with Door Box Cat No: MH56BE Front Cat No: NC56F Ref. Drawing: PBA707A Feeders: 53 - 20A/1P QOB 1 - 20A/1P QOB Prepared Space Optional Features: Ship Together,Blank Endwalls,Copper Solid Neutral,Seismic Qualification - IBC/ASCE7,SPD Model BIA,Copper Ground Bar Standard Nameplate: Engraved as Follows Line 1: 1LL2 Size: 3.50" Wide x 1.00" High (Std) Color: White Surface / Black Letters Plastic/Adhesive - Screw-on
026-00	1	**Designation:** 2LL1 NQ MB PNLB (INT,BOX,TRIM) NQ Panelboard Consisting of 208Y/120V 3Ph 4W 60Hz SCCR: 10kA Fully Rated SPD 100kA per Phase/50kA per Mode SPD line to grd protect w/SPD Surge Counter w/SPD Dry Contacts Single Main: 225A/3P QB Circuit Breaker Main Acc: Feed Thru Lugs Incoming Conductors: 1 - #4 - 300 kcmil Bus: Copper: Silver/Tin Plated CU Ground Bar 54 Circuit Interior Type 1,Box: 56H x 20W x 5.75D Incoming: Bottom Trim: Flush with Door Box Cat No: MH56BE Front Cat No: NC56F Ref. Drawing: PBA707A Feeders: 41 - 20A/1P QOB

Q2C Number: 37999262	Quote Number: 3	Change Order Rev Number: 4
Project Name: WEBSTER UNIVERSITY ISB		Quote Name: PANEL USER PLACEMENT

Item No.	Qty.	Catalog Number / Details
		1 - 15A/1P QOB Optional Features: Ship Together,Blank Endwalls,Copper Solid Neutral,Seismic Qualification - IBC/ASCE7,SPD Model BIA,Copper Ground Bar Standard Nameplate: Engraved as Follows Line 1: 2LL1 Size: 3.50" Wide x 1.00" High (Std) Color: White Surface / Black Letters Plastic/Adhesive - Screw-on
027-00	1	**Designation:** 2LL3 NQ MB PNLB (INT,BOX,TRIM) NQ Panelboard Consisting of 208Y/120V 3Ph 4W 60Hz SCCR: 10kA Fully Rated SPD 100kA per Phase/50kA per Mode SPD line to grd protect w/SPD Surge Counter w/SPD Dry Contacts Single Main: 225A/3P QB Circuit Breaker Main Acc: Feed Thru Lugs Incoming Conductors: 1 - #4 - 300 kcmil Bus: Copper: Silver/Tin Plated CU Ground Bar 54 Circuit Interior Type 1,Box: 56H x 20W x 5.75D Incoming: Bottom Trim: Flush with Door Box Cat No: MH56 Front Cat No: NC56F Ref. Drawing: PBA707A Feeders: 42 - 20A/1P QOB Optional Features: Ship Together,Copper Solid Neutral,Seismic Qualification - IBC/ASCE7,SPD Model BIA,Copper Ground Bar Standard Nameplate: Engraved as Follows Line 1: 2LL3 Size: 3.50" Wide x 1.00" High (Std) Color: White Surface / Black Letters Plastic/Adhesive - Screw-on
028-00	1	**Designation:** 2LL2 NQ MB PNLB (INT,BOX,TRIM) NQ Panelboard Consisting of 208Y/120V 3Ph 4W 60Hz SCCR: 10kA Fully Rated SPD 100kA per Phase/50kA per Mode SPD line to grd protect w/SPD Surge Counter w/SPD Dry Contacts Single Main: 225A/3P QB Circuit Breaker Incoming Conductors: 1 - #4 - 300 kcmil Bus: Copper: Silver/Tin Plated CU Ground Bar

Q2C Number: 37999262	Quote Number: 3	Change Order Rev Number: 4
Project Name: WEBSTER UNIVERSITY ISB		Quote Name: PANEL USER PLACEMENT

Item No.	Qty.	Catalog Number / Details
		54 Circuit Interior Type 1,Box: 50H x 20W x 5.75D Incoming: Top Trim: Flush with Door Box Cat No: MH50BE Front Cat No: NC50F Ref. Drawing: PBA707A Feeders: 42 - 20A/1P QOB Optional Features: Ship Together,Blank Endwalls,Copper Solid Neutral,Seismic Qualification - IBC/ASCE7,SPD Model BIA,Copper Ground Bar Standard Nameplate: Engraved as Follows Line 1: 2LL2 Size: 3.50" Wide x 1.00" High (Std) Color: White Surface / Black Letters Plastic/Adhesive - Screw-on
029-00	1	**Designation:** 2LL4 NQ MB PNLB (INT,BOX,TRIM) NQ Panelboard Consisting of 208Y/120V 3Ph 4W 60Hz SCCR: 10kA Fully Rated SPD 100kA per Phase/50kA per Mode SPD line to grd protect w/SPD Surge Counter w/SPD Dry Contacts Single Main: 225A/3P QB Circuit Breaker Incoming Conductors: 1 - #4 - 300 kcmil Bus: Copper: Silver/Tin Plated CU Ground Bar 54 Circuit Interior Type 1,Box: 50H x 20W x 5.75D Incoming: Top Trim: Flush with Door Box Cat No: MH50BE Front Cat No: NC50F Ref. Drawing: PBA707A Feeders: 42 - 20A/1P QOB Optional Features: Ship Together,Blank Endwalls,Copper Solid Neutral,Seismic Qualification - IBC/ASCE7,SPD Model BIA,Copper Ground Bar Standard Nameplate: Engraved as Follows Line 1: 2LL4 Size: 3.50" Wide x 1.00" High (Std) Color: White Surface / Black Letters Plastic/Adhesive - Screw-on
030-00	1	**Designation:** 3LL1 NQ MB PNLB (INT,BOX,TRIM) NQ Panelboard Consisting of 208Y/120V 3Ph 4W 60Hz SCCR: 10kA Fully Rated SPD 100kA per Phase/50kA per Mode SPD line to grd protect w/SPD Surge Counter

Q2C Number: 37999262	Quote Number: 3	Change Order Rev Number: 4
Project Name: WEBSTER UNIVERSITY ISB		Quote Name: PANEL USER PLACEMENT

Item No.	Qty.	Catalog Number / Details
		w/SPD Dry Contacts Single Main: 225A/3P QB Circuit Breaker Main Acc: Feed Thru Lugs Incoming Conductors: 1 - #4 - 300 kcmil Bus: Copper: Silver/Tin Plated CU Ground Bar 54 Circuit Interior Type 1,Box: 56H x 20W x 5.75D Incoming: Bottom Trim: Flush with Door Box Cat No: MH56BE Front Cat No: NC56F Ref. Drawing: PBA707A Feeders: 34 - 20A/1P QOB 4 - 30A/2P QOB Optional Features: Ship Together,Blank Endwalls,Copper Solid Neutral,Seismic Qualification - IBC/ASCE7,SPD Model BIA,Copper Ground Bar Branch User Placement Standard Nameplate: Engraved as Follows Line 1: 3LL1 Size: 3.50" Wide x 1.00" High (Std) Color: White Surface / Black Letters Plastic/Adhesive - Screw-on
031-00	1	**Designation:** 3LL3 NQ MB PNLB (INT,BOX,TRIM) NQ Panelboard Consisting of 208Y/120V 3Ph 4W 60Hz SCCR: 10kA Fully Rated SPD 100kA per Phase/50kA per Mode SPD line to grd protect w/SPD Surge Counter w/SPD Dry Contacts Single Main: 225A/3P QB Circuit Breaker Main Acc: Feed Thru Lugs Incoming Conductors: 1 - #4 - 300 kcmil Bus: Copper: Silver/Tin Plated CU Ground Bar 54 Circuit Interior Type 1,Box: 56H x 20W x 5.75D Incoming: Bottom Trim: Flush with Door Box Cat No: MH56BE Front Cat No: NC56F Ref. Drawing: PBA707A Feeders: 42 - 20A/1P QOB Optional Features: Ship Together,Blank Endwalls,Copper Solid Neutral,Seismic Qualification - IBC/ASCE7,SPD Model BIA,Copper Ground Bar Standard Nameplate: Engraved as Follows Line 1: 3LL3 Size: 3.50" Wide x 1.00" High (Std) Color: White Surface / Black Letters Plastic/Adhesive - Screw-on

Q2C Number: 37999262 **Quote Number:** 3 **Change Order Rev Number:** 4
Project Name: WEBSTER UNIVERSITY ISB **Quote Name:** PANEL USER PLACEMENT

Item No.	Qty.	Catalog Number / Details
032-00	1	**Designation:** 3LL2 NQ MB PNLB (INT,BOX,TRIM) NQ Panelboard Consisting of 208Y/120V 3Ph 4W 60Hz SCCR: 10kA Fully Rated SPD 100kA per Phase/50kA per Mode SPD line to grd protect w/SPD Surge Counter w/SPD Dry Contacts Single Main: 225A/3P QB Circuit Breaker Incoming Conductors: 1 - #4 - 300 kcmil Bus: Copper: Silver/Tin Plated CU Ground Bar 54 Circuit Interior Type 1,Box: 50H x 20W x 5.75D Incoming: Top Trim: Flush with Door Box Cat No: MH50BE Front Cat No: NC50F Ref. Drawing: PBA707A Feeders: 42 - 20A/1P QOB Optional Features: Ship Together,Blank Endwalls,Copper Solid Neutral,Seismic Qualification - IBC/ASCE7,SPD Model BIA,Copper Ground Bar Standard Nameplate: Engraved as Follows Line 1: 3LL2 Size: 3.50" Wide x 1.00" High (Std) Color: White Surface / Black Letters Plastic/Adhesive - Screw-on
033-00	1	**Designation:** 3LL4 NQ MB PNLB (INT,BOX,TRIM) NQ Panelboard Consisting of 208Y/120V 3Ph 4W 60Hz SCCR: 10kA Fully Rated SPD 100kA per Phase/50kA per Mode SPD line to grd protect w/SPD Surge Counter w/SPD Dry Contacts Single Main: 225A/3P QB Circuit Breaker Incoming Conductors: 1 - #4 - 300 kcmil Bus: Copper: Silver/Tin Plated CU Ground Bar 54 Circuit Interior Type 1,Box: 50H x 20W x 5.75D Incoming: Top Trim: Flush with Door Box Cat No: MH50BE Front Cat No: NC50F Ref. Drawing: PBA707A Feeders: 42 - 20A/1P QOB Optional Features: Ship Together,Blank Endwalls,Copper Solid Neutral,Seismic Qualification - IBC/ASCE7,SPD Model BIA,Copper Ground Bar Standard Nameplate: Engraved as Follows Line 1: 3LL4 Size: 3.50" Wide x 1.00" High (Std)

Q2C Number: 37999262	Quote Number: 3	Change Order Rev Number: 4
Project Name: WEBSTER UNIVERSITY ISB		Quote Name: PANEL USER PLACEMENT

Item No.	Qty.	Catalog Number / Details
		Color: White Surface / Black Letters Plastic/Adhesive - Screw-on
034-00	1	**Designation:** 3LL5 NQ MB PNLB (INT,BOX,TRIM) NQ Panelboard Consisting of 208Y/120V 3Ph 4W 60Hz SCCR: 10kA Fully Rated SPD 100kA per Phase/50kA per Mode SPD line to grd protect w/SPD Surge Counter w/SPD Dry Contacts Single Main: 225A/3P QB Circuit Breaker Incoming Conductors: 1 - #4 - 300 kcmil Bus: Copper: Silver/Tin Plated CU Ground Bar 54 Circuit Interior Type 1,Box: 50H x 20W x 5.75D Incoming: Bottom Trim: Flush with Door Box Cat No: MH50BE Front Cat No: NC50F Ref. Drawing: PBA707A Feeders: 42 - 20A/1P QOB Optional Features: Ship Together,Blank Endwalls,Copper Solid Neutral,Seismic Qualification - IBC/ASCE7,SPD Model BIA,Copper Ground Bar Standard Nameplate: Engraved as Follows Line 1: 3LL5 Size: 3.50" Wide x 1.00" High (Std) Color: White Surface / Black Letters Plastic/Adhesive - Screw-on
035-00	1	**Designation:** 4LL1 NQ MB PNLB (INT,BOX,TRIM) NQ Panelboard Consisting of 208Y/120V 3Ph 4W 60Hz SCCR: 10kA Fully Rated SPD 100kA per Phase/50kA per Mode SPD line to grd protect w/SPD Surge Counter w/SPD Dry Contacts Single Main: 225A/3P QB Circuit Breaker Main Acc: Feed Thru Lugs Incoming Conductors: 1 - #4 - 300 kcmil Bus: Copper: Silver/Tin Plated CU Ground Bar 54 Circuit Interior Type 1,Box: 56H x 20W x 5.75D Incoming: Bottom Trim: Flush with Door Box Cat No: MH56BE Front Cat No: NC56F Ref. Drawing: PBA707A Feeders: 42 - 20A/1P QOB Optional Features: Ship Together,Blank Endwalls,Copper Solid Neutral,Seismic Qualification -

Q2C Number: 37999262	Quote Number: 3	Change Order Rev Number: 4
Project Name: WEBSTER UNIVERSITY ISB		Quote Name: PANEL USER PLACEMENT

Item No.	Qty.	Catalog Number / Details
		IBC/ASCE7,SPD Model BIA,Copper Ground Bar Standard Nameplate: Engraved as Follows Line 1: 4LL1 Size: 3.50" Wide x 1.00" High (Std) Color: White Surface / Black Letters Plastic/Adhesive - Screw-on
036-00	1	**Designation:** 4LL3 NQ MB PNLB (INT,BOX,TRIM) NQ Panelboard Consisting of 208Y/120V 3Ph 4W 60Hz SCCR: 10kA Fully Rated SPD 100kA per Phase/50kA per Mode SPD line to grd protect w/SPD Surge Counter w/SPD Dry Contacts Single Main: 225A/3P QB Circuit Breaker Main Acc: Feed Thru Lugs Incoming Conductors: 1 - #4 - 300 kcmil Bus: Copper: Silver/Tin Plated CU Ground Bar 54 Circuit Interior Type 1,Box: 56H x 20W x 5.75D Incoming: Bottom Trim: Flush with Door Box Cat No: MH56BE Front Cat No: NC56F Ref. Drawing: PBA707A Feeders: 42 - 20A/1P QOB Optional Features: Ship Together,Blank Endwalls,Copper Solid Neutral,Seismic Qualification - IBC/ASCE7,SPD Model BIA,Copper Ground Bar Standard Nameplate: Engraved as Follows Line 1: 4LL3 Size: 3.50" Wide x 1.00" High (Std) Color: White Surface / Black Letters Plastic/Adhesive - Screw-on
037-00	1	**Designation:** 4LL2 NQ MB PNLB (INT,BOX,TRIM) NQ Panelboard Consisting of 208Y/120V 3Ph 4W 60Hz SCCR: 10kA Fully Rated SPD 100kA per Phase/50kA per Mode SPD line to grd protect w/SPD Surge Counter w/SPD Dry Contacts Single Main: 225A/3P QB Circuit Breaker Incoming Conductors: 1 - #4 - 300 kcmil Bus: Copper: Silver/Tin Plated CU Ground Bar 54 Circuit Interior Type 1,Box: 50H x 20W x 5.75D Incoming: Top Trim: Flush with Door Box Cat No: MH50BE Front Cat No: NC50F

Q2C Number: 37999262	Quote Number: 3	Change Order Rev Number: 4
Project Name: WEBSTER UNIVERSITY ISB		Quote Name: PANEL USER PLACEMENT

Item No.	Qty.	Catalog Number / Details
		Ref. Drawing: PBA707A Feeders: 42 - 20A/1P QOB Optional Features: Ship Together,Blank Endwalls,Copper Solid Neutral,Seismic Qualification - IBC/ASCE7,SPD Model BIA,Copper Ground Bar Standard Nameplate: Engraved as Follows Line 1: 4LL2 Size: 3.50" Wide x 1.00" High (Std) Color: White Surface / Black Letters Plastic/Adhesive - Screw-on
038-00	1	**Designation:** 4LL4 NQ MB PNLB (INT,BOX,TRIM) NQ Panelboard Consisting of 208Y/120V 3Ph 4W 60Hz SCCR: 10kA Fully Rated SPD 100kA per Phase/50kA per Mode SPD line to grd protect w/SPD Surge Counter w/SPD Dry Contacts Single Main: 225A/3P QB Circuit Breaker Incoming Conductors: 1 - #4 - 300 kcmil Bus: Copper: Silver/Tin Plated CU Ground Bar 54 Circuit Interior Type 1,Box: 50H x 20W x 5.75D Incoming: Top Trim: Flush with Door Box Cat No: MH50BE Front Cat No: NC50F Ref. Drawing: PBA707A Feeders: 42 - 20A/1P QOB Optional Features: Ship Together,Blank Endwalls,Copper Solid Neutral,Seismic Qualification - IBC/ASCE7,SPD Model BIA,Copper Ground Bar Standard Nameplate: Engraved as Follows Line 1: 4LL4 Size: 3.50" Wide x 1.00" High (Std) Color: White Surface / Black Letters Plastic/Adhesive - Screw-on
039-00	1	**Designation:** 4LL5 NQ MB PNLB (INT,BOX,TRIM) NQ Panelboard Consisting of 208Y/120V 3Ph 4W 60Hz SCCR: 10kA Fully Rated SPD 100kA per Phase/50kA per Mode SPD line to grd protect w/SPD Surge Counter w/SPD Dry Contacts Single Main: 225A/3P QB Circuit Breaker Incoming Conductors: 1 - #4 - 300 kcmil Bus: Copper: Silver/Tin Plated

Q2C Number: 37999262	Quote Number: 3	Change Order Rev Number: 4
Project Name: WEBSTER UNIVERSITY ISB		Quote Name: PANEL USER PLACEMENT

Item No.	Qty.	Catalog Number / Details
		CU Ground Bar 54 Circuit Interior Type 1,Box: 50H x 20W x 5.75D Incoming: Bottom Trim: Flush with Door Box Cat No: MH50BE Front Cat No: NC50F Ref. Drawing: PBA707A Feeders: 42 - 20A/1P QOB Optional Features: Ship Together,Blank Endwalls,Copper Solid Neutral,Seismic Qualification - IBC/ASCE7,SPD Model BIA,Copper Ground Bar Standard Nameplate: Engraved as Follows Line 1: 4LL5 Size: 3.50" Wide x 1.00" High (Std) Color: White Surface / Black Letters Plastic/Adhesive - Screw-on
040-00	1	**Designation:** 2LL5 NQ MB PNLB (INT,BOX,TRIM) NQ Panelboard Consisting of 208Y/120V 3Ph 4W 60Hz SCCR: 10kA Fully Rated SPD 100kA per Phase/50kA per Mode SPD line to grd protect w/SPD Surge Counter w/SPD Dry Contacts Single Main: 225A/3P QB Circuit Breaker Incoming Conductors: 1 - #4 - 300 kcmil Bus: Copper: Silver/Tin Plated CU Ground Bar 54 Circuit Interior Type 1,Box: 50H x 20W x 5.75D Incoming: Bottom Trim: Surface with Door Box Cat No: MH50BE Front Cat No: NC50S Ref. Drawing: PBA707A Feeders: 42 - 20A/1P QOB Optional Features: Ship Together,Blank Endwalls,Copper Solid Neutral,Seismic Qualification - IBC/ASCE7,SPD Model BIA,Copper Ground Bar Standard Nameplate: Engraved as Follows Line 1: 2LL5 Size: 3.50" Wide x 1.00" High (Std) Color: White Surface / Black Letters Plastic/Adhesive - Screw-on
041-00	1	**Designation:** 1SL2 NQ MB PNLB (INT,BOX,TRIM) NQ Panelboard Consisting of 208Y/120V 3Ph 4W 60Hz SCCR: 10kA Fully Rated Single Main: 150A/3P QB Circuit Breaker Main Acc: Feed Thru Lugs

Q2C Number: 37999262 **Quote Number:** 3 **Change Order Rev Number:** 4
Project Name: WEBSTER UNIVERSITY ISB **Quote Name:** PANEL USER PLACEMENT

Item No.	Qty.	Catalog Number / Details
		Incoming Conductors: 1 - #4 - 300 kcmil Bus: Copper: Silver/Tin Plated CU Ground Bar 30 Circuit Interior Type 1,Box: 50H x 20W x 5.75D Incoming: Top Trim: Surface with Door Box Cat No: MH50BE Front Cat No: NC50S Ref. Drawing: PBA707A Feeders: 2 - 20A/2P QOB 26 - 20A/1P QOB Optional Features: Ship Together,Blank Endwalls,Copper Solid Neutral,Seismic Qualification - IBC/ASCE7,Copper Ground Bar Standard Nameplate: Engraved as Follows Line 1: 1SL2 Size: 3.50" Wide x 1.00" High (Std) Color: White Surface / Black Letters Plastic/Adhesive - Screw-on

WM TAO & ASSOCIATES
CONSULTING ENGINEERS

Shop Drawing Submittal Review

Transmitted To: Cannon Design

Date: September 7, 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	264000E01A	(Submittal No.'s) ~~(R&B CxSRC)~~
		(Cannon #264000-003) - (Paric #15051-0197) – ~~(WES #607)~~
		• **Panel Schedule - Resubmittal**

Submittal Review Comments

Furnish as Noted: See mark-ups.

Submit Specified Items:

- **US-1**
- **SB-1**
- **SB-2**
- **1EL1**
- **1EH1**
- **1GH1**
- **1SH1**
- **1SL1**

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

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

☐ Rejected ☐ Revise & Resubmit

☐ Reviewed ☒ ***Submit Specified Items**

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

DEVIN D GATES
SUBMITTED BY

264000-003
CONTRACTOR / CM SUBMITTAL NO.

CANNON DESIGN SUBMITTAL NO.

DRAWING / DETAIL REFERENCE

264000
SPECIFICATION SECTION / PARAGRAPH

MANUFACTURER / SUPPLIER

ITEM / PRODUCT ID

REQUIRED DATE

HIGH
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

In response to note on returned 264000-001 Electrical Distribution.

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

DEVIN D GATES
REVIEWED BY

082216
DATE

To be completed by Reviewer

26 4000-003
CANNON DESIGN SUBMITTAL NUMBER

8/29/16
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

PARIC
EXPERIENCE. EXCELLENCE.
77 Westport Plaza
Suite 250
St. Louis, MO 63146

TRANSMITTAL

No. 15051-0197

Paric Corporation

PROJECT: 15051-Webster University Interdisciplinary Science Building

DATE: 08/27/2016

TO: Cannon Design
1100 Clark Ave
St Louis MO 63102

RE: Panel schedule

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		264000-003	1		08/27/2016	Panel schedule	Submitted

NOTES:

CC:

Signed: _____
Devin Gates

GUARANTEE
ELECTRICAL CONSTRUCTION

3415 Bent Avenue
St. Louis, MO 63116
Phone: (314) 772-5400
Fax: (314) 772-2526

Transmittal

To Paric Corporation

Date 8/3/16

Job Number 11317

Job Name Webster Univ. ISB Building

Attention Devin Gates

Transmittal Number 11317-015

We are sending you:

- X Attached
- ___ Preliminary Drawings
- ___ Construction Drawings
- ___ Specifications
- ___ Under separate cover, the following:
- ___ Samples
- ___ Copy of Letter
- ___ Other

Quantity	Drawing #	Date/Revision	Description
1			Re-Submittal for Panel Schedules (to match Drawing
			Panel Schedules) - Spec Section26 40 00 *

These are transmitted as checked:

- X For Your Review & Comment
- X For Approval
- ___ For Your File
- ___ As Requested
- ___ Approved As Noted
- ___ Returned For Corrections
- ___ Approved As Submitted
- ___

***See attached panel drawings showing the breakers placed per the Tao schedules. Panel 1GH1 cannot have the breakers placed as Tao shows on their schedule so it is not included in this resubmittal.**

Copy: Transmittal Enclosure

___ ___
___ ___
___ ___

Rick Branstetter

Signed: Rick Branstetter, Project Manager

SQUARE D COMPANY
801 CORPORATE CENTER DRIVE
O'FALLON, MO 63368

PANELBOARD RE-SUBMITTAL

Q2C Number: 37999262	Quote Number: 3	Change Order Rev Number: 4

Project Name: WEBSTER UNIVERSITY ISB
Project Sub-Name: INTERDISCIPLINARY SCIENCE BUILDING
Project Location: WEBSTER GROVES, MO
Quote Name: PANEL BREAKER USER PLACEMENT
Through Addenda Number: 0
Bid Date: 5/2/2016
Consultant / Specifier: WILLIAM TAO & ASSOC INC
Contractor / Installer: GUARANTEE ELECTRIC
Sales Representative: LOUIS FELDHAUS

Conditions of Sale

This Quotation is subject to Coordinated Project Terms.

Payment Terms: STANDARD
Billing Type(s):
Currency: US DOLLARS

Quote Markings

REVISED WITH BREAKERS PLACED PER SCHEDULES

REV	DESCRIPTION	BY	DATE	–	----	--	--/--/--
–	----	--	--/--/--	–	----	--	--/--/--

CKT NO	ACCESSORIES	TYPE	RATING AMP/P	S/N	225A M/L A B C	S/N	RATING AMP/P	TYPE	ACCESSORIES	CKT NO
	Surge Counter Dry Contacts	SPD 100kA/3						SPD 100kA/3	Surge Counter Dry Contacts	
13		QOB	20/1				20/1	QOB		14
15		QOB	20/1				20/1	QOB		16
17		QOB	20/1				20/1	QOB		18
19		QOB	20/1				20/1	QOB		20
21		QOB	20/1				20/1	QOB		22
23		QOB	20/1				20/1	QOB		24
25		QOB	20/1				20/1	QOB		26
27		QOB	20/1				20/1	QOB		28
29		QOB	20/1				20/1	QOB		30
31		QOB	20/1				20/1	QOB		32
33		QOB	20/1				20/1	QOB		34
35		QOB	20/1				20/1	QOB		36
37		QOB	20/1				20/1	QOB		38
39		QOB	20/1				20/1	QOB		40
41		QOB	20/1				20/1	QOB		42
43		QOB	20/1				20/1	QOB		44
45		QOB	20/1				20/1	QOB		46
47		QOB	20/1				20/1	QOB		48
49		QOB	20/1				20/1	QOB		50
51		QOB	20/1				20/1	QOB		52
53		QOB	20/1				20/1	QOB		54

PHYSICAL DATA

ENCLOSURE Type 1
Surface with Door
FRONT CAT#: NC38S
BOX CAT#: MH38BE
DIMENSIONS:
38''H x 20''W x 5.75''D
WIRE BENDING SPACE:
TOP – 9.26
BOTTOM – 5
SIDE – 6.13
PBA: 701A

BUSSING: Copper
Silver/Tin Plated

OPTIONAL FEATURES:
SEISMICALLY QUALIFIED : IBC/ASCE7
SHIP TOGETHER
Copper GROUND BAR

(Continued on next page.)

ELECTRICAL DATA

SYSTEM: 208Y/120V 3Ph 4W 60Hz
System Ampacity: 225A
10kA SYMS. SCCR

MAIN: MAIN LUGS : 225A
Top FEED
INCOMING CONDUCTORS(S) PER NEC
Wire Bending Space:
#6 – 350 kcmil

BRANCH MOUNTING TYPE: BOLT-ON

----------BRANCH SUMMATION----------

42 – 20A/1P QOB

JOB NAME:	WEBSTER UNIVERSITY ISB	EQUIPMENT DESIGNATION:	1LL1
JOB LOCATION:	WEBSTER GROVES MO	EQUIPMENT TYPE:	NQ (Circuit Breaker Type) PANEL 1 OF 1
DRAWN BY:	(Q2C)	DRAWING TYPE:	ONE LINE DIAGRAM
ENGR:			
DATE:	June 13 2016		
DRAWING STATUS:	QUOTE	DWG# 037999262-01	PG 1 OF 2 REV –

REV	DESCRIPTION	BY	DATE	–	----	--	--/--/--
–	----	--	--/--/--	–	----	--	--/--/--

PHYSICAL DATA CONTINUED

BLANK ENDWALLS
COPPER SOLID NEUTRAL
SPD DRY CONTACTS
SPD SURGE COUNTER
SPD PEAK SURGE RATING/PHASE: 100kA
SPD LINE TO GRD PROTECT

----------STANDARD EQUIPMENT NAMEPLATE----------

Engraved as Follows
LINE 1: 1LL1
COLOR: White Surface / Black Letters
SIZE: 3.50" Wide x 1.00" High (Std)
TYPE: Plastic/Adhesive – Screw–on

JOB NAME:	WEBSTER UNIVERSITY ISB	EQUIPMENT DESIGNATION:	1LL1
JOB LOCATION:	WEBSTER GROVES MO	EQUIPMENT TYPE:	NQ (Circuit Breaker Type) PANEL 1 OF 1
DRAWN BY:	(Q2C)	DRAWING TYPE:	ONE LINE DIAGRAM
ENGR:			
DATE:	June 13 2016		
DRAWING STATUS:	QUOTE	DWG# 037999262–01	PG 2 OF 2 REV –

PANELBOARDS

THIS SECTION CONTAINS DETAILED DRAWINGS ON THE FOLLOWING PANELS:

DESIGNATION	*TYPE*	*VOLTAGE*	*AIC*	*MOUNTING*	*PBA*	*NOTES AND REMARKS*
1GH1	I-LINE	480Y/277V 3Ph 4W 60Hz	22kA	Bottom Trim: Surface with Door	418	Ship Together,Copper Solid Neutral,Seismic Qualification - IBC/ASCE7,Copper Ground Bar,Standard Mains and Feeders Mechanically Restrained Branch User Placement Standard Nameplate: Engraved as Follows Line 1: 1GH1 Size: 3.50" Wide x 1.00" High (Std) Color: White Surface / Black Letters Plastic/Adhesive - Screw-on
1LL1	NQ	208Y/120V 3Ph 4W 60Hz	10kA	Top Trim: Surface with Door	701A	Ship Together,Blank Endwalls,Copper Solid Neutral,Seismic Qualification - IBC/ASCE7,SPD Model BIA,Copper Ground Bar Standard Nameplate: Engraved as Follows Line 1: 1LL1 Size: 3.50" Wide x 1.00" High (Std) Color: White Surface / Black Letters Plastic/Adhesive - Screw-on
1LL2	NQ	208Y/120V 3Ph 4W 60Hz	10kA	Bottom Trim: Flush with Door	707A	Ship Together,Blank Endwalls,Copper Solid Neutral,Seismic Qualification - IBC/ASCE7,SPD Model BIA,Copper Ground Bar Standard Nameplate: Engraved as Follows Line 1: 1LL2 Size: 3.50" Wide x 1.00" High (Std) Color: White Surface / Black Letters Plastic/Adhesive - Screw-on
1NH1	NF	480Y/277V 3Ph 4W 60Hz	22kA	Bottom Trim: Surface with Door	553	Ship Together,Blank Endwalls,Copper Solid Neutral,Seismic Qualification - IBC/ASCE7,Copper Ground Bar Standard Nameplate: Engraved as Follows Line 1: 1NH1 Size: 3.50" Wide x 1.00" High (Std) Color: White Surface / Black Letters Plastic/Adhesive - Screw-on
1NH2	NF	480Y/277V 3Ph 4W 60Hz	22kA	Top Trim: Surface with Door	550	Ship Together,Blank Endwalls,Copper Solid Neutral,Seismic Qualification - IBC/ASCE7,Copper Ground Bar Standard Nameplate: Engraved as Follows Line 1: 1NH2 Size: 3.50" Wide x 1.00" High (Std) Color: White Surface / Black Letters Plastic/Adhesive - Screw-on
1NL1	NQ	208Y/120V 3Ph 4W 60Hz	10kA	Bottom Trim: Surface with Door	707A	Ship Together,Blank Endwalls,Copper Solid Neutral,Seismic Qualification - IBC/ASCE7,Copper Ground Bar Standard Nameplate: Engraved as Follows Line 1: 1NL1 Size: 3.50" Wide x 1.00" High (Std) Color: White Surface / Black Letters Plastic/Adhesive - Screw-on
1NL2	NQ	208Y/120V 3Ph 4W 60Hz	10kA	Top Trim: Surface with Door	701A	Ship Together,Blank Endwalls,Copper Solid Neutral,Seismic Qualification - IBC/ASCE7,Copper Ground Bar Standard Nameplate: Engraved as Follows Line 1: 1NL2 Size: 3.50" Wide x 1.00" High (Std) Color: White Surface / Black Letters Plastic/Adhesive - Screw-on
1NL3	NQ	208Y/120V 3Ph 4W 60Hz	10kA	Bottom Trim: Surface with Door	707A	Ship Together,Blank Endwalls,Copper Solid Neutral,Seismic Qualification - IBC/ASCE7,Copper Ground Bar Standard Nameplate: Engraved as Follows Line 1: 1NL3 Size: 3.50" Wide x 1.00" High (Std) Color: White Surface / Black Letters Plastic/Adhesive - Screw-on

PANELBOARDS

THIS SECTION CONTAINS DETAILED DRAWINGS ON THE FOLLOWING PANELS:

DESIGNATION	*TYPE*	*VOLTAGE*	*AIC*	*MOUNTING*	*PBA*	*NOTES AND REMARKS*
1SL2	NQ	208Y/120V 3Ph 4W 60Hz	10kA	Top Trim: Surface with Door	707A	Ship Together,Blank Endwalls,Copper Solid Neutral,Seismic Qualification - IBC/ASCE7,Copper Ground Bar Standard Nameplate: Engraved as Follows Line 1: 1SL2 Size: 3.50" Wide x 1.00" High (Std) Color: White Surface / Black Letters Plastic/Adhesive - Screw-on
2LL1	NQ	208Y/120V 3Ph 4W 60Hz	10kA	Bottom Trim: Flush with Door	707A	Ship Together,Blank Endwalls,Copper Solid Neutral,Seismic Qualification - IBC/ASCE7,SPD Model BIA,Copper Ground Bar Standard Nameplate: Engraved as Follows Line 1: 2LL1 Size: 3.50" Wide x 1.00" High (Std) Color: White Surface / Black Letters Plastic/Adhesive - Screw-on
2LL2	NQ	208Y/120V 3Ph 4W 60Hz	10kA	Top Trim: Flush with Door	707A	Ship Together,Blank Endwalls,Copper Solid Neutral,Seismic Qualification - IBC/ASCE7,SPD Model BIA,Copper Ground Bar Standard Nameplate: Engraved as Follows Line 1: 2LL2 Size: 3.50" Wide x 1.00" High (Std) Color: White Surface / Black Letters Plastic/Adhesive - Screw-on
2LL3	NQ	208Y/120V 3Ph 4W 60Hz	10kA	Bottom Trim: Flush with Door	707A	Ship Together,Copper Solid Neutral,Seismic Qualification - IBC/ASCE7,SPD Model BIA,Copper Ground Bar Standard Nameplate: Engraved as Follows Line 1: 2LL3 Size: 3.50" Wide x 1.00" High (Std) Color: White Surface / Black Letters Plastic/Adhesive - Screw-on
2LL4	NQ	208Y/120V 3Ph 4W 60Hz	10kA	Top Trim: Flush with Door	707A	Ship Together,Blank Endwalls,Copper Solid Neutral,Seismic Qualification - IBC/ASCE7,SPD Model BIA,Copper Ground Bar Standard Nameplate: Engraved as Follows Line 1: 2LL4 Size: 3.50" Wide x 1.00" High (Std) Color: White Surface / Black Letters Plastic/Adhesive - Screw-on
2LL5	NQ	208Y/120V 3Ph 4W 60Hz	10kA	Bottom Trim: Surface with Door	707A	Ship Together,Blank Endwalls,Copper Solid Neutral,Seismic Qualification - IBC/ASCE7,SPD Model BIA,Copper Ground Bar Standard Nameplate: Engraved as Follows Line 1: 2LL5 Size: 3.50" Wide x 1.00" High (Std) Color: White Surface / Black Letters Plastic/Adhesive - Screw-on
2NH1	NF	480Y/277V 3Ph 4W 60Hz	22kA	Bottom Trim: Surface with Door	553	Ship Together,Blank Endwalls,Copper Solid Neutral,Seismic Qualification - IBC/ASCE7,Copper Ground Bar Standard Nameplate: Engraved as Follows Line 1: 2NH1 Size: 3.50" Wide x 1.00" High (Std) Color: White Surface / Black Letters Plastic/Adhesive - Screw-on
2NL1	NQ	208Y/120V 3Ph 4W 60Hz	10kA	Bottom Trim: Surface with Door	707A	Ship Together,Blank Endwalls,Copper Solid Neutral,Seismic Qualification - IBC/ASCE7,Copper Ground Bar Standard Nameplate: Engraved as Follows Line 1: 2NL1 Size: 3.50" Wide x 1.00" High (Std) Color: White Surface / Black Letters Plastic/Adhesive - Screw-on

PANELBOARDS

THIS SECTION CONTAINS DETAILED DRAWINGS ON THE FOLLOWING PANELS:

DESIGNATION	*TYPE*	*VOLTAGE*	*AIC*	*MOUNTING*	*PBA*	*NOTES AND REMARKS*
3LL1	NQ	208Y/120V 3Ph 4W 60Hz	10kA	Bottom Trim: Flush with Door	707A	Ship Together,Blank Endwalls,Copper Solid Neutral,Seismic Qualification - IBC/ASCE7,SPD Model BIA,Copper Ground Bar Standard Nameplate: Engraved as Follows Line 1: 3LL1 Size: 3.50" Wide x 1.00" High (Std) Color: White Surface / Black Letters Plastic/Adhesive - Screw-on
3LL2	NQ	208Y/120V 3Ph 4W 60Hz	10kA	Top Trim: Flush with Door	707A	Ship Together,Blank Endwalls,Copper Solid Neutral,Seismic Qualification - IBC/ASCE7,SPD Model BIA,Copper Ground Bar Standard Nameplate: Engraved as Follows Line 1: 3LL2 Size: 3.50" Wide x 1.00" High (Std) Color: White Surface / Black Letters Plastic/Adhesive - Screw-on
3LL3	NQ	208Y/120V 3Ph 4W 60Hz	10kA	Bottom Trim: Flush with Door	707A	Ship Together,Blank Endwalls,Copper Solid Neutral,Seismic Qualification - IBC/ASCE7,SPD Model BIA,Copper Ground Bar Standard Nameplate: Engraved as Follows Line 1: 3LL3 Size: 3.50" Wide x 1.00" High (Std) Color: White Surface / Black Letters Plastic/Adhesive - Screw-on
3LL4	NQ	208Y/120V 3Ph 4W 60Hz	10kA	Top Trim: Flush with Door	707A	Ship Together,Blank Endwalls,Copper Solid Neutral,Seismic Qualification - IBC/ASCE7,SPD Model BIA,Copper Ground Bar Standard Nameplate: Engraved as Follows Line 1: 3LL4 Size: 3.50" Wide x 1.00" High (Std) Color: White Surface / Black Letters Plastic/Adhesive - Screw-on
3LL5	NQ	208Y/120V 3Ph 4W 60Hz	10kA	Bottom Trim: Flush with Door	707A	Ship Together,Blank Endwalls,Copper Solid Neutral,Seismic Qualification - IBC/ASCE7,SPD Model BIA,Copper Ground Bar Standard Nameplate: Engraved as Follows Line 1: 3LL5 Size: 3.50" Wide x 1.00" High (Std) Color: White Surface / Black Letters Plastic/Adhesive - Screw-on
3NH1	NF	480Y/277V 3Ph 4W 60Hz	22kA	Bottom Trim: Surface with Door	553	Ship Together,Blank Endwalls,Copper Solid Neutral,Seismic Qualification - IBC/ASCE7,Copper Ground Bar Standard Nameplate: Engraved as Follows Line 1: 3NH1 Size: 3.50" Wide x 1.00" High (Std) Color: White Surface / Black Letters Plastic/Adhesive - Screw-on
3NL1	NQ	208Y/120V 3Ph 4W 60Hz	10kA	Bottom Trim: Surface with Door	707A	Ship Together,Blank Endwalls,Copper Solid Neutral,Seismic Qualification - IBC/ASCE7,Copper Ground Bar Standard Nameplate: Engraved as Follows Line 1: 3NL1 Size: 3.50" Wide x 1.00" High (Std) Color: White Surface / Black Letters Plastic/Adhesive - Screw-on
4LL1	NQ	208Y/120V 3Ph 4W 60Hz	10kA	Bottom Trim: Flush with Door	707A	Ship Together,Blank Endwalls,Copper Solid Neutral,Seismic Qualification - IBC/ASCE7,SPD Model BIA,Copper Ground Bar Standard Nameplate: Engraved as Follows Line 1: 4LL1 Size: 3.50" Wide x 1.00" High (Std) Color: White Surface / Black Letters Plastic/Adhesive - Screw-on

PANELBOARDS

THIS SECTION CONTAINS DETAILED DRAWINGS ON THE FOLLOWING PANELS:

DESIGNATION	*TYPE*	*VOLTAGE*	*AIC*	*MOUNTING*	*PBA*	*NOTES AND REMARKS*
4LL2	NQ	208Y/120V 3Ph 4W 60Hz	10kA	Top Trim: Flush with Door	707A	Ship Together,Blank Endwalls,Copper Solid Neutral,Seismic Qualification - IBC/ASCE7,SPD Model BIA,Copper Ground Bar Standard Nameplate: Engraved as Follows Line 1: 4LL2 Size: 3.50" Wide x 1.00" High (Std) Color: White Surface / Black Letters Plastic/Adhesive - Screw-on
4LL3	NQ	208Y/120V 3Ph 4W 60Hz	10kA	Bottom Trim: Flush with Door	707A	Ship Together,Blank Endwalls,Copper Solid Neutral,Seismic Qualification - IBC/ASCE7,SPD Model BIA,Copper Ground Bar Standard Nameplate: Engraved as Follows Line 1: 4LL3 Size: 3.50" Wide x 1.00" High (Std) Color: White Surface / Black Letters Plastic/Adhesive - Screw-on
4LL4	NQ	208Y/120V 3Ph 4W 60Hz	10kA	Top Trim: Flush with Door	707A	Ship Together,Blank Endwalls,Copper Solid Neutral,Seismic Qualification - IBC/ASCE7,SPD Model BIA,Copper Ground Bar Standard Nameplate: Engraved as Follows Line 1: 4LL4 Size: 3.50" Wide x 1.00" High (Std) Color: White Surface / Black Letters Plastic/Adhesive - Screw-on
4LL5	NQ	208Y/120V 3Ph 4W 60Hz	10kA	Bottom Trim: Flush with Door	707A	Ship Together,Blank Endwalls,Copper Solid Neutral,Seismic Qualification - IBC/ASCE7,SPD Model BIA,Copper Ground Bar Standard Nameplate: Engraved as Follows Line 1: 4LL5 Size: 3.50" Wide x 1.00" High (Std) Color: White Surface / Black Letters Plastic/Adhesive - Screw-on
4NH1	NF	480Y/277V 3Ph 4W 60Hz	22kA	Bottom Trim: Surface with Door	553T	Ship Together,Blank Endwalls,Copper Solid Neutral,Seismic Qualification - IBC/ASCE7,Copper Ground Bar Standard Nameplate: Engraved as Follows Line 1: 4NH1 Size: 3.50" Wide x 1.00" High (Std) Color: White Surface / Black Letters Plastic/Adhesive - Screw-on
4NL1	NQ	208Y/120V 3Ph 4W 60Hz	10kA	Bottom Trim: Surface with Door	707A	Ship Together,Blank Endwalls,Copper Solid Neutral,Seismic Qualification - IBC/ASCE7,SPD Model BIA,Copper Ground Bar Standard Nameplate: Engraved as Follows Line 1: 4NL1 Size: 3.50" Wide x 1.00" High (Std) Color: White Surface / Black Letters Plastic/Adhesive - Screw-on
4SH1	NF	480Y/277V 3Ph 4W 60Hz	22kA	Bottom Trim: Surface with Door	553T	Ship Together,Blank Endwalls,Copper Solid Neutral,Seismic Qualification - IBC/ASCE7,Copper Ground Bar Standard Nameplate: Engraved as Follows Line 1: 4SH1 Size: 3.50" Wide x 1.00" High (Std) Color: White Surface / Black Letters Plastic/Adhesive - Screw-on
BNH1	NF	480Y/277V 3Ph 4W 60Hz	22kA	Bottom Trim: Surface with Door	554	Ship Together,Blank Endwalls,Copper Solid Neutral,Seismic Qualification - IBC/ASCE7,Copper Ground Bar Standard Nameplate: Engraved as Follows Line 1: BNH1 Size: 3.50" Wide x 1.00" High (Std) Color: White Surface / Black Letters Plastic/Adhesive - Screw-on

PANELBOARDS

THIS SECTION CONTAINS DETAILED DRAWINGS ON THE FOLLOWING PANELS:

DESIGNATION	*TYPE*	*VOLTAGE*	*AIC*	*MOUNTING*	*PBA*	*NOTES AND REMARKS*
BNL1	NQ	208Y/120V 3Ph 4W 60Hz	10kA	Bottom Trim: Surface with Door	707A	Ship Together,Blank Endwalls,Copper Solid Neutral,Seismic Qualification - IBC/ASCE7,Copper Ground Bar Standard Nameplate: Engraved as Follows Line 1: BNL1 Size: 3.50" Wide x 1.00" High (Std) Color: White Surface / Black Letters Plastic/Adhesive - Screw-on

PLEASE CONFIRM THAT THE PANEL DETAILS MATCHES THE PLANS AND SPECIFICATIONS.

ALL LUGS ON PANELBOARDS AND CIRCUIT BREAKERS ARE RATED AT 75 DEGR C.

ALL LUGS ARE SIZED PER UL STANDARDS. PLEASE CONFIRM THAT THEY ARE APPROPRIATE FOR THE QUANTITY AND SIZE OF THE CABLE BEING CONNECTED.

PLEASE CONFIRM TOP OR BOTTOM FEED, AND SURFACE OR FLUSH COVERS.

PANEL INFORMATION IS FOR ENGINEERING APPROVAL ONLY.
DO NOT USE FOR CONSTRUCTION PURPOSES.

DIMENSIONS ARE SUBJECT TO CHANGE PRIOR TO FINAL ENGINEERING FOR PRODUCTION

WM TAO & ASSOCIATES
CONSULTING ENGINEERS

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 [X] **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 EO503, 504, 505, & 506.

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

[ ] Furnish as Submitted [ ] Furnish as Noted

[ ] Rejected [X] ***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.

7955 Manchester Road, Suite 125 • St. Louis, Missouri 63143-2711 • Phone: 314-884-7600 • Fax: 314-884-7601

If enclosures are not as noted, please notify us at once.

Sara Trout (314) 884-7645

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 • M
cannondesign.com

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

264000-001
CONTRACTOR / CM SUBMITTAL NO.

CANNON DESIGN SUBMITTAL NO.

DRAWING / DETAIL REFERENCE

264000
SPECIFICATION SECTION / PARAGRAPH

Guarantee Electrical
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

7/5/16
DATE

To be completed by Reviewer

26 4000-001
CANNON DESIGN SUBMITTAL NUMBER

7/5/16
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. 15051-0114

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

GUARANTEE
ELECTRICAL CONSTRUCTION

3415 Bent Avenue
St. Louis, MO 63116
Phone: (314) 772-5400
Fax: (314) 772-2526

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:

- X 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:

- X For Your Review & Comment
- X For Approval
- ___ For Your File
- ___ As Requested
- ___ Approved As Noted
- ___ Returned For Corrections
- ___ Approved As Submitted
- ___

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

METAL-ENCLOSED SWITCHGEAR: US-1

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 ControllerFor 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

Schneider Electric

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