



ELECTRICAL ENGINEERING  
 LIGHTING DESIGN  
 CA REGISTRATION NO E13083



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## SUBMITTAL REVIEW

PROJECT: BCSD Pioneer School HVAC & FA

This review is only for general conformance with the design concept of the project and general compliance with the information given in the Contract Documents. Corrections or comments made on the shop drawings during this review do not relieve contractor from compliance with the requirements of the plans and specifications. Approval of a specific item shall not include approval of an assembly of which the item is a component. Contractor is responsible for: dimensions to be confirmed and correlated at the jobsite; information that pertains solely to the fabrication processes or to the names, methods, techniques, sequences and procedures of construction; coordination of the Work of all trades; and for performing work in a safe and satisfactory manner.

### SWITCHGEAR SUBMITTAL

#### ACTION:

Approved   X                        Furnish as Corrected         
 Rejected                             Revise and Resubmit       

#### NOTES:

1. QED 2 800A, 480V NEMA 3R switchboard "MS" with (2) 225/3, 20/2, 40/2, 800/3 main matches specified.
2. Distribution panel HDP, I-Line with 800/3 main, 300/3, 400/3 and 250/3 matches specified.
3. Panels HF, HG, HF NF panelboards match specified.

DATE: 2/6/24

**Prepared By:**

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Bakersfield,CA 93313  
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D:661-835-4362

**Proposal Name:** PIONEER ELEMENTARY

**Quote Name:** PIONEER ELEMENTARY

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**Proposal Number:** P-240103-4196083

**Quote Number:** Q-4640892

**Through Addenda Number:** 0

**Sales Representative:** Dave Bruun

**Conditions of Sale**

*This Quotation is subject to Coordinated Project Terms. See <https://www.se.com/us/en/download/document/0100PL0043/>*

Quoted price in currencies other than U.S. Dollars is per the annual Schneider Electric exchange guidance. Quote is valid for 30 days. Quoted lead times are approximate and subject to change.

Schneider Electric reserves the right to amend, withdraw or otherwise alter this submission without penalty or charge as a result of any event beyond its control arising from or due to the current Covid-19 epidemic or events subsequent to this epidemic / pandemic including changes in laws, regulations, by laws or direction from a competent authority.

Seq #	Qty	Product Description
1	1	<p><b>Designation : MS</b> <b>Product Details:</b> 1 - Square D Standard Swbd-QED-2 Switchboard</p> <p>----- Square D Standard Swbd Designed and Tested in accordance with: UL 891/NATIONAL ELECTRIC CODE/NEMA PB-2 System Voltage - 480Y/277V 3Ph 4W 60Hz System Ampacity - 800A Source Description - Single Main Bussing - Aluminum Plated w/Tin and Copper Plated w/Silver Neutral Bus - 100% Max Available Fault Current (RMS) - 35kA Installed Location: Indoor Enclosure - Type 3R Non-Walk-in Accessibility: Front Only Rodent Barrier Exterior Paint Color - ANSI 49 Ground Lug provided for each device Aluminum Ground Bus Seismic Qualified</p> <p>Dimensions ----- 2 - 36" Wide Section(s) 1 - Dimensions: 72.00" W X 35.5" D X 91.5"H 2 - 35.5" Deep Enclosure(s) Approximate Weight: 1764.00 lbs / 800.15 kgs</p> <p>Incoming Requirements ----- Suitable for Use As Service Entrance Entry Point: Left of Lineup, Through the Bottom Connection Type: Cable Reverse Feed Hot Sequence Utility: Pacific Gas &amp; Electric (CA) Standard Door Pattern 1-30in Door, 2 Sockets</p> <p>Mains ----- 1 - 800AT 480V 80% Rated 35 kA 3 Pole UL, Fixed Mounted Basic Electronic Trip Circuit Breaker: Type MG Padlock Attachment</p> <p>Feeders ----- 2 - 225AT 480V 80% Rated 35 kA 3 Pole UL, Group Mounted Thermal Magnetic Circuit Breaker: Type JG 1 - 20AT 480V 80% Rated 35 kA 2 Pole UL, Group Mounted Thermal Magnetic Circuit Breaker: Type BG 1 - 40AT 480V 80% Rated 35 kA 2 Pole UL, Group Mounted Thermal Magnetic Circuit Breaker: Type BG 1 - 800AT 480V 80% Rated 35 kA 3 Pole UL, Group Mounted Basic Electronic Trip Circuit Breaker: Type MG</p>

Seq #	Qty	Product Description
2	1	<p><b>Designation : HDP</b> <b>Product Details:</b> 1 - I-Line MB Panel (INTERIOR)-I-Line Panelboard Consisting of 480Y/277V 3Ph 4W 60Hz SCCR: 10kA</p>

Fully Rated  
 Single Main: 800AS/800AT/3P MG Circuit  
 Breaker 80% Rated  
 Main Trip Function: LI  
 Main Trip Unit: Standard Trip Unit  
 Incoming Conductors: 1 - (3) 3/0 - 500 kcmil  
 AL Ground Bar  
 Bus: 800A Rated Copper: Tin Plated  
 36" of Mounting Inches  
 Type 3R/5/12Box: 68H x 42W x 12.95D  
 Incoming: Bottom Trim w/ Box  
 Box Cat No: HC4268WP  
 Ref. Drawing PBA412 Type: HCP  
 Feeders:  
 1 - 300A/3P LA  
 1 - 400A/3P LA  
 1 - 250A/3P JD  
 Optional Features:  
 Standard Panel (Box Ahead),Seismic  
 Qualification -  
 IBC/ASCE7/CBC/NBCC,Standard Solid  
 Neutral,Standard Ground Bar,Standard  
 Mains and Feeders Mechanically  
 Restrained  
 Branch User Placement  
 1 - HC4268WP-PNLBD ENCLOSURE/BOX T-3R/12 68H 42W

Seq #	Qty	Product Description
3	1	<b>Designation : HH</b> <b>Product Details:</b> 1 - NF MB Panel (INTERIOR)-NF Panelboard Consisting of 480Y/277V 3Ph 4W 60Hz SCCR: 10kA Fully Rated Single Main: 400A/3P LA Circuit Breaker Incoming Conductors: 1 - #1 - 600,(2)#1 - 250 kcmil AL Ground Bar Bus: 400A Rated Aluminum: Tin Plated 42 Circuit Interior Type 3R/5/12Box: 68H x 20W x 6.5D Incoming: Bottom Trim w/ Box Box Cat No: MH68WP Ref. Drawing: PBA555 Feeders: 2 - 60A/3P EDB 5 - 30A/3P EDB Optional Features: Standard Panel (Box Ahead),Seismic Qualification - IBC/ASCE7/CBC/NBCC,Standard Solid Neutral,Standard Ground Bar Branch User Placement 1 - MH68WP-PANELBOARD ENCL/BOX TYPE 3R/12 68H 20W

Seq #	Qty	Product Description
4	1	<b>Designation : HG</b> <b>Product Details:</b> 1 - NF MB Panel (INTERIOR)-NF Panelboard Consisting of 480Y/277V 3Ph 4W 60Hz SCCR: 10kA Fully Rated Single Main: 300A/3P LA Circuit Breaker Incoming Conductors: 1 - #1 - 600,(2)#1 - 250 kcmil AL Ground Bar Bus: 400A Rated Aluminum: Tin Plated 42 Circuit Interior Type 3R/5/12Box: 68H x 20W x 6.5D Incoming: Bottom Trim w/ Box

Box Cat No: MH68WP  
Ref. Drawing: PBA555  
Feeders:  
8 - 35A/3P EDB  
Optional Features:  
Standard Panel (Box Ahead),Seismic  
Qualification -  
IBC/ASCE7/CBC/NBCC,Standard Solid  
Neutral,Standard Ground Bar  
1 - MH68WP-PANELBOARD ENCL/BOX TYPE 3R/12 68H 20W

Seq #	Qty	Product Description
5	1	<p><b>Designation : HF</b> <b>Product Details:</b> 1 - NF MB Panel (INTERIOR)-NF Panelboard Consisting of 480Y/277V 3Ph 4W 60Hz SCCR: 10kA Fully Rated Single Main: 225A/3P JD Circuit Breaker Incoming Conductors: 1 - 3/0 - 350 kcmil AL Ground Bar Bus: 250A Rated Aluminum: Tin Plated 42 Circuit Interior Type 3R/5/12Box: 56H x 20W x 6.5D Incoming: Bottom Trim w/ Box Box Cat No: MH56WP Ref. Drawing: PBA555 Feeders: 7 - 35A/3P EDB Optional Features: Standard Panel (Box Ahead),Seismic Qualification - IBC/ASCE7/CBC/NBCC,Standard Solid Neutral,Standard Ground Bar Branch User Placement 1 - MH56WP-PANELBOARD ENCL/BOX TYPE 3R/12 56H 20W</p>

REV	DESCRIPTION	BY	DATE						
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T-bus  
19.5 in

T-bus  
19.5 in

**SWITCHBOARD GENERAL NOTES**

**PRODUCT DESCRIPTION & RATINGS**

**Power System Data**

480Y/277V 3Ph 4W 60Hz / 3 Phase Wye  
Solidly Grounded  
System Short Circuit Current Rating: 35kA RMS  
Incoming Section 1 Cable Through the Bottom Left of Lineup

**Bus System Data**

800A Tin/Aluminum & Silver/Copper Main Bus  
(2) .25x2.00 IN/6x51 mm Al Bus Bar Per Phase/Neutral  
(1) .25x1.50 IN/6x38 mm Al Ground Bus

**Enclosure Data**

Type 3R Free Standing  
Exterior Paint Color: ANSI 49  
Front Accessibility Only Required  
Handling: Rollers  
Rodent barriers  
1.5H Corrosion Resist Base Channels  
Base channels cannot be removed from EUSERC switchboard line-ups  
Utility sealing hardware installed for unmetered bus compartments

**Estimated Shipping Weight**

Shipping Split 1 1764.00 lbs / 800.15 kgs  
Complete Lineup 1764.00 lbs / 800.15 kgs

**Code Standards**

U.L. Deadfront and suitable for use as Service Entrance  
when not more than six (6) disconnecting means are provided.

**Rating Nameplates**

ST1- Deadfront - Section Bus 800A  
ST2- Service Entrance - Section Bus 800A

**PRODUCT INFORMATION**

**Wiring**

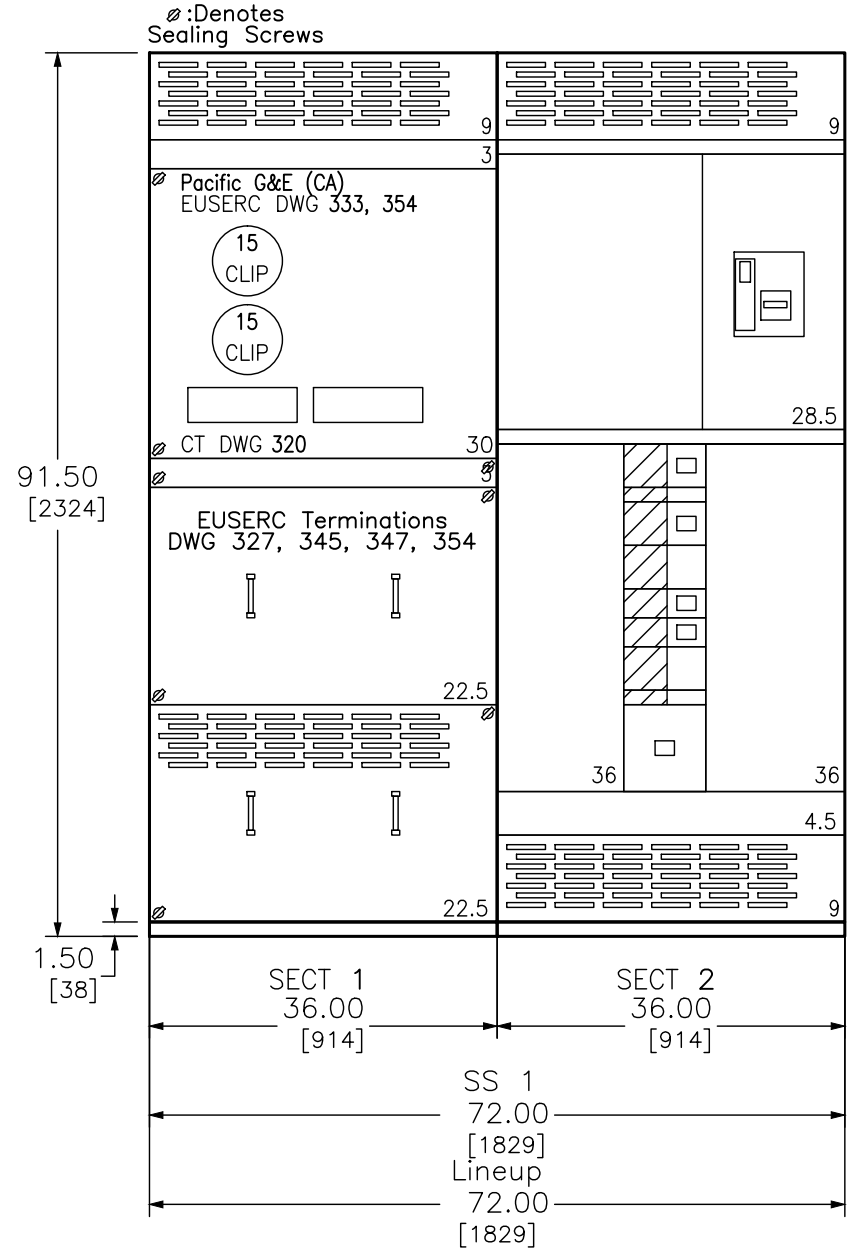
All wiring to be Machine Tool Wire type

**Instruction Bulletins**

Reference 80043-055 For Handling, Installation,  
Anchoring, Inspection And Maintenance Information

**Product Accessories/Options**

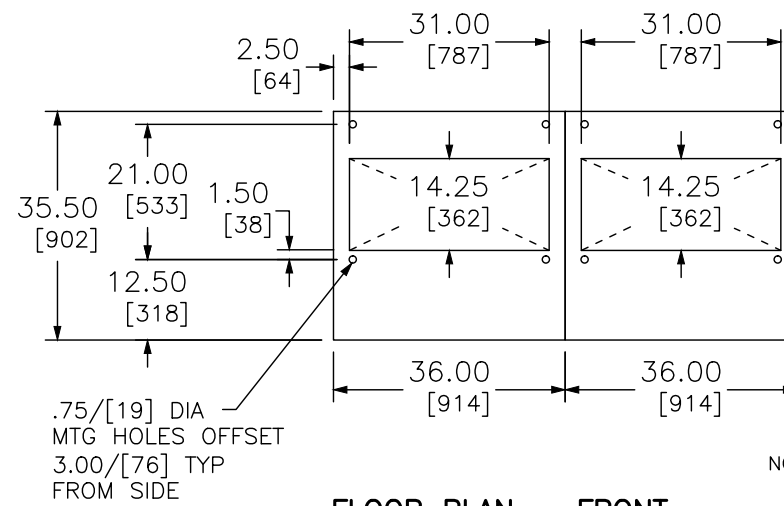
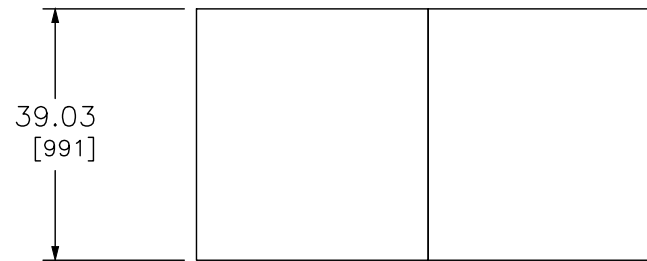
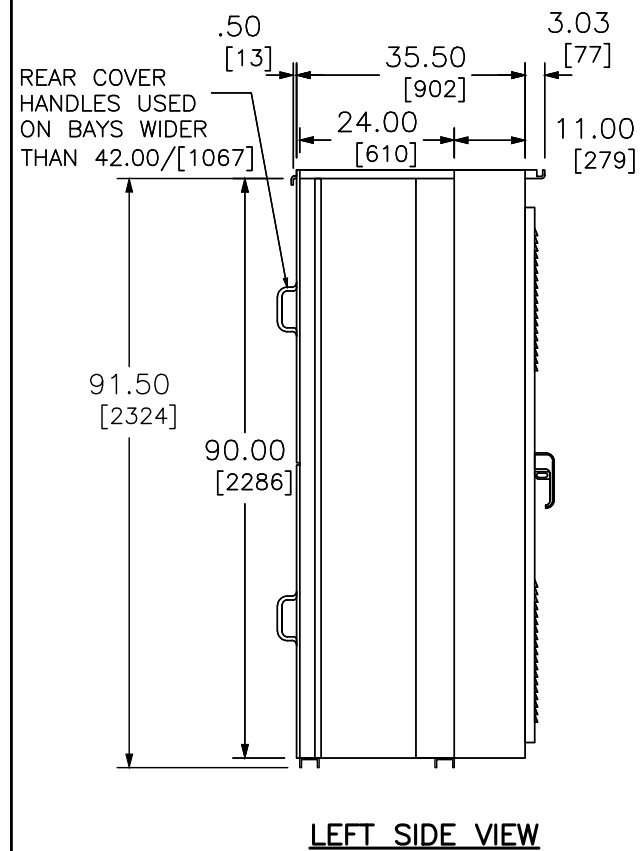
Seismic Qualified



DUAL DIMENSIONS: INCHES  
MILLIMETERS

JOB NAME: PIONEER ELEMENTARY	EQUIPMENT DESIGNATION: MS
JOB LOCATION:	EQUIPMENT TYPE: QED-2 Switchboard
DRAWN BY: (Q2C)	DRAWING TYPE: GENERAL NOTES
ENGR:	<b>SQUARE D</b> by Schneider Electric
DATE: January 26 2024	
DRAWING STATUS: QUOTE	DWG# FQ-4640892-135756629-01

REV	DESCRIPTION	BY	DATE						
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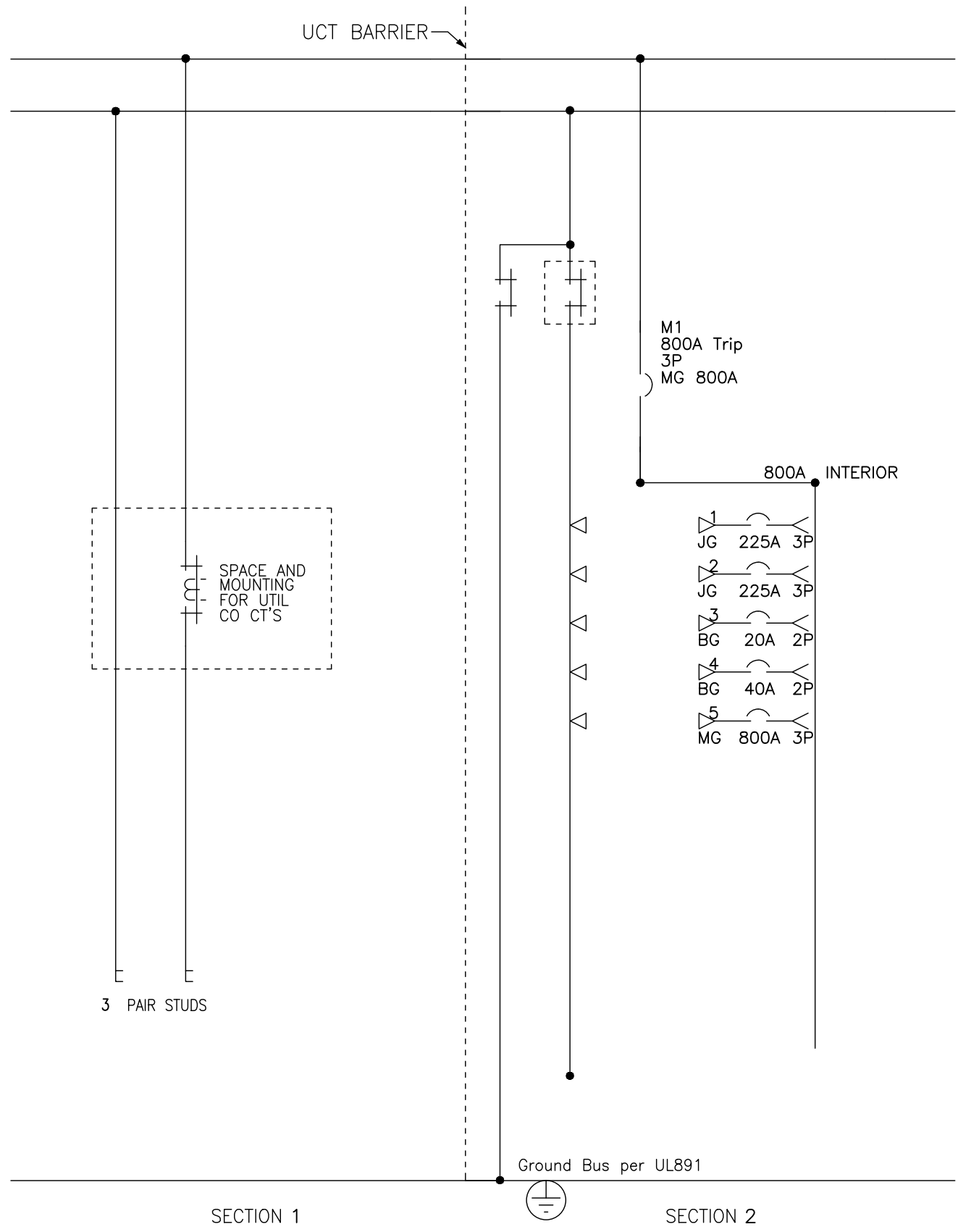
NOTE: ALL DEVICES REQUIRING DRILLING OR INSERTION IN MOUNTING PAD SUCH AS CONDUIT, ANCHORING STUDS, SLEEVE INSERTS, ETC. SHOULD BE INSTALLED BEFORE SETTING EQUIPMENT IN PLACE.


DUAL DIMENSIONS: INCHES  
MILLIMETERS

NOTE:  
A MINIMUM OF 2.00/[51] CLEARANCE BEHIND THE SWITCHBOARD IS REQUIRED FOR TOP COVER OVERHANG.

JOB NAME: PIONEER ELEMENTARY	EQUIPMENT DESIGNATION: MS
JOB LOCATION:	EQUIPMENT TYPE: QED-2 Switchboard
DRAWN BY: (Q2C)	DRAWING TYPE: SIDE, TOP VIEW & FLOOR PLAN
ENGR:	<b>SQUARE D</b> <small>by Schneider Electric</small>
DATE: January 26 2024	
DRAWING STATUS: QUOTE	DWG# FQ-4640892-135756629-01 PG 2 OF 2 REV -

REV	DESCRIPTION	BY	DATE						
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JOB NAME:	PIONEER ELEMENTARY	EQUIPMENT DESIGNATION:	MS
JOB LOCATION:		EQUIPMENT TYPE:	QED-2 Switchboard
DRAWN BY:	(Q2C)	DRAWING TYPE:	ONE LINE
ENGR:		 <small>by Schneider Electric</small>	
DATE:	January 26 2024		
DRAWING STATUS:	QUOTE	DWG#	OQ-4640892-135756629-01
		PG	1 OF 2
		REV	-




REV	DESCRIPTION	BY	DATE										
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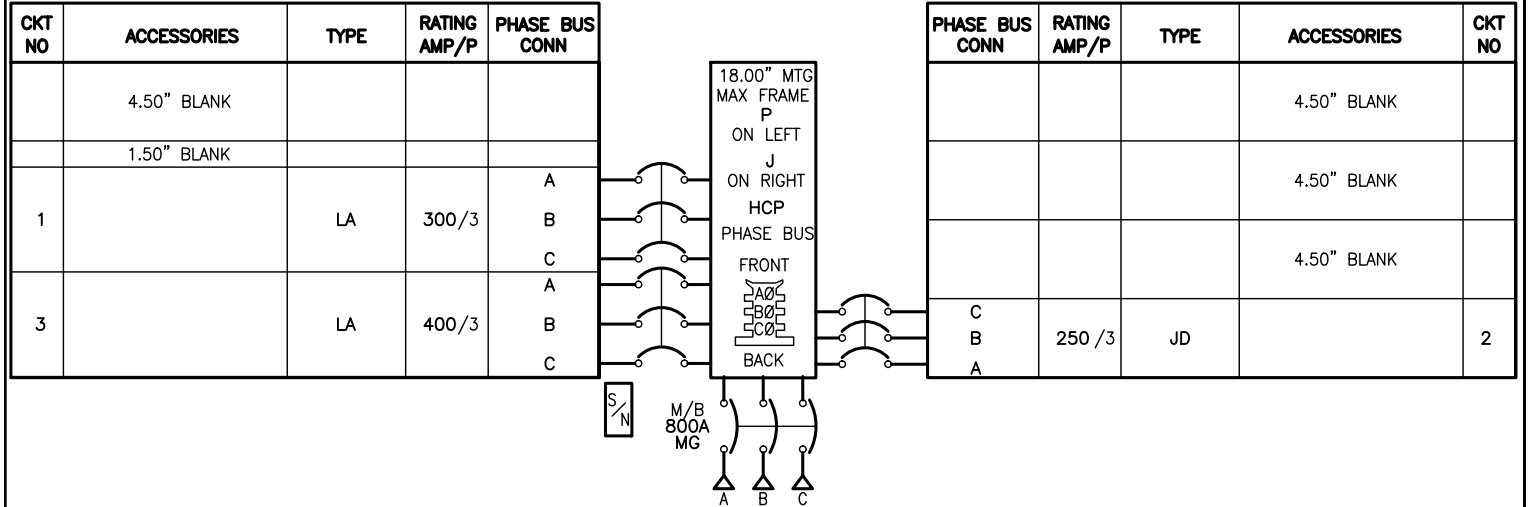
POWER STYLE QED-2 SWITCHBOARD

LEGEND	
PLA	Padlock Attachment-Fixed

SECT NO	CKT NO	IMD /GMD CONFIG	DEVICE/FRAME RATING	TRIP AMP	FUSE/TRIP	#P	DESIGNATION	N/P	LUG/WIRE INFORMATION				ACCESSORIES / NOTES
									QTY	PHASE WIRE RANGE	QTY	NEUT WIRE RANGE	
1	UCT	-	800A	-	-	-	Pacific G&E (CA)	No	3	Pair Studs	3	Pair Studs	
2	M1	FIX	MG 800A	800A	-	3P		No	-	-	-	-	PLA
2	1	4.5 in	JG	225A	-	3P		No	1	3/0 - 350 kcmil	1	3/0 - 350kcmil	
2	2	4.5 in	JG	225A	-	3P		No	1	3/0 - 350 kcmil	1	3/0 - 350kcmil	
2	3	3 in	BG	20A	-	2P		No	1	#14 - 1/0 AWG	1	#14 - 1/0 AWG	
2	4	3 in	BG	40A	-	2P		No	1	#14 - 1/0 AWG	1	#14 - 1/0 AWG	
2	5	9 in	MG	800A	-	3P		No	3	3/0 - 500 kcmil	3	3/0 - 500kcmil	

JOB NAME:	PIONEER ELEMENTARY	EQUIPMENT DESIGNATION:	MS
JOB LOCATION:		EQUIPMENT TYPE:	QED-2 Switchboard
DRAWN BY:	(Q2C)	DRAWING TYPE:	SCHEDULE
ENGR:		 <small>by Schneider Electric</small>	
DATE:	January 26 2024		
DRAWING STATUS:	QUOTE	DWG#	OQ-4640892-135756629-01
		PG	2 OF 2
		REV	-

REV	DESCRIPTION	BY	DATE						
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PHYSICAL DATA

ENCLOSURE Type 3R/5/12  
 FRONT CAT#: Trim w/Box  
 BOX CAT#: HC4268WP

DIMENSIONS:  
 68"(1727mm)Hx42"(1067mm)Wx12.95"(329mm)D

WIRE BENDING SPACE:  
 TOP - 11.66"(296mm)  
 BOTTOM - 16.18"(411mm)  
 LEFT SIDE - 8.66"(220mm)  
 RIGHT SIDE - 8.77"(223mm)

PBA: 412  
 BUSSING: 800A RATED COPPER BUS  
 Tin Plated

OPTIONAL FEATURES:  
 SEISMICALLY QUALIFIED : IBC/ASCE7/CBC/NBCC  
 BRANCH USER PLACEMENT  
 ALUMINUM SOLID NEUTRAL  
 ALUMINUM GROUND BAR  
 Maximum Panel Weight 660.  
 Depth Center of Gravity 12.9  
 (Continued on next page.)

ELECTRICAL DATA

SYSTEM: 480Y/277V 3Ph 4W 60Hz  
 System Ampacity: 800A  
 10kA SYMS. SCCR  
 Fully Rated  
 MAIN: MAIN BREAKER MG 800AS/800AT  
 ACC: STD LI  
 Bottom FEED  
 35kA AIR  
 INCOMING CONDUCTORS(S) PER NEC, CEC, NOM:  
 Wire Bending Space:  
 Phase Lugs:1 - (3) 3/0 - 500 kcmil

-----BRANCH SUMMATION-----  
 1 - 300A/3P LA  
 1 - 250A/3P JD  
 1 - 400A/3P LA

JOB NAME:	PIONEER ELEMENTARY	EQUIPMENT DESIGNATION:	HDP
JOB LOCATION:		EQUIPMENT TYPE:	I-Line (Circuit Breaker Type) PANEL 1 OF 1
DRAWN BY:	(Q2C)	DRAWING TYPE:	ONE LINE DIAGRAM
ENGR:		<b>SQUARE D</b> by Schneider Electric	
DATE:	January 26 2024	DWG#	OQ-4640892-135760850-01
DRAWING STATUS:	QUOTE	PG 1	OF 2

REV	DESCRIPTION	BY	DATE				
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PHYSICAL DATA CONTINUED

Elevation Center of Gravity 34.0

Vertical Center of Gravity 21.0

JOB NAME:	PIONEER ELEMENTARY	EQUIPMENT DESIGNATION:	HDP
JOB LOCATION:		EQUIPMENT TYPE:	I-Line (Circuit Breaker Type) PANEL 1 OF 1
DRAWN BY:	(Q2C)	DRAWING TYPE:	ONE LINE DIAGRAM
ENGR:		<b>SQUARE D</b> <small>by Schneider Electric</small>	
DATE:	January 26 2024	DWG#	0Q-4640892-135760850-01
DRAWING STATUS:	QUOTE	PG	2 OF 2 REV -

REV	DESCRIPTION	BY	DATE	---	---	---	---
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## REQUIREMENTS FOR SEISMIC RATING

SQUARE D PANELBOARDS HAVE BEEN TESTED TO IBC/ASCE7/CBC/NBCC.

THE PANELBOARD TYPES LISTED BELOW MEET THE IBC/ASCE7/CBC/NBCC.

PANELBOARD TYPE	ENCLOSURE TYPE
NQ	TYPE 1, 3R, 5, 12, 4/4X (SS)
NQ COLUMN WIDTH	TYPE 1
NF (STANDARD OR COLUMN WIDTH)	TYPE 1, 3R, 5, 12, 4/4X (SS)
I-LINE	TYPE 1, 3R, 5, 12, 4/4X (SS)
QMB	TYPE 1, 3R, 5, 12, 4/4X (SS)

### GUIDELINES:

- 1) BOLT-ON CIRCUIT BREAKERS ARE REQUIRED ON NQ AND NF PANELBOARDS.
- 2) ENCLOSURES MUST BE SECURED TO THE WALL OR STRUCTURE BY UTILIZING ALL MOUNTING HOLES PROVIDED IN THE ENCLOSURE AND SECURED WITH SAE GRADE 5 STEEL BOLTS SIZED PER THE MOUNTING HOLES.

### ANCHORING CONDITIONS

TO MAINTAIN SEISMIC QUALIFICATIONS, EQUIPMENT MUST BE INSTALLED PER MANUAL (SEE GENERAL NOTES) IN ADDITION TO ANY SEISMIC ANCHORING DETAILS PROVIDED BY OTHERS. DO NOT INSTALL EQUIPMENT BEFORE APPROVED SEISMIC ANCHORING DETAILS HAVE BEEN OBTAINED AND SITE PREPARATIONS HAVE BEEN MADE IN ACCORDANCE WITH THE APPROVED SEISMIC ANCHORING DETAILS. ALL POST-INSTALLED ANCHORS SHALL BE APPROVED FOR SEISMIC LOADS.

### CENTER OF GRAVITY:


THE CG INFORMATION PROVIDED BELOW SHOULD ONLY BE USED FOR SEISMIC ANCHORING CALCULATIONS.

ELEVATION CENTER OF GRAVITY: 34.0	"ABOVE BOTTOM OF ENCLOSURE
DEPTH CENTER OF GRAVITY: 12.9	"FROM BACK WALL OF ENCLOSURE
VERTICAL CENTER OF GRAVITY: 21.0	"FROM LEFT WALL OF ENCLOSURE

### SECTION WEIGHT:

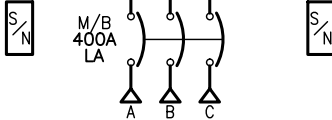
THE WEIGHTS GIVEN BELOW ARE THE MAXIMUM FOR EACH SECTION AND SHOULD BE USED FOR CALCULATING SEISMIC ANCHORING REQUIREMENTS

MAXIMUM PANEL WEIGHT: 660. LBS / 299.KGS

JOB NAME: PIONEER ELEMENTARY	EQUIPMENT DESIGNATION: HDP
JOB LOCATION:	EQUIPMENT TYPE: I-Line (Circuit Breaker Type) PANEL 1 OF 1
DRAWN BY: (Q2C)	DRAWING TYPE: ONE LINE DIAGRAM
ENGR:	 <small>by Schneider Electric</small>
DATE: January 26 2024	
DRAWING STATUS: QUOTE	DWG# OQ-4640892-135760850-S1
	PG 1 OF 1
	REV -

REV	DESCRIPTION	BY	DATE				
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CKT NO	ACCESSORIES	TYPE	RATING AMP/P		RATING AMP/P	TYPE	ACCESSORIES	CKT NO
1								
3		EDB	60/3		30/3	EDB		2
5								4
7								6
9		EDB	60/3		30/3	EDB		8
11								10
13	BLANK							12
15	BLANK							14
17	BLANK							16
19	BLANK							18
21	BLANK							20
23	BLANK							22
25	BLANK							24
27	BLANK							26
29	BLANK							28
31	BLANK							30
33	BLANK							32
35	BLANK							34
37	BLANK							36
39	BLANK							38
41	BLANK							40
								42



### PHYSICAL DATA

ENCLOSURE Type 3R/5/12  
FRONT CAT#: Trim w/Box  
BOX CAT#: MH68WP

DIMENSIONS:  
68"(1727mm)Hx20"(508mm)Wx6.5"(165mm)D

WIRE BENDING SPACE:  
TOP - 12.25"(312)mm  
BOTTOM - 15"(381)mm  
SIDE - 4.1"(105)mm

PBA: 555

BUSSING: 400A RATED ALUMINUM BUS  
Tin Plated

OPTIONAL FEATURES:  
SEISMICALLY QUALIFIED : IBC/ASCE7/CBC/NBCC  
BRANCH USER PLACEMENT  
ALUMINUM SOLID NEUTRAL  
ALUMINUM GROUND BAR  
Maximum Panel Weight 234.  
Depth Center of Gravity 6.5  
Elevation Center of Gravity 34.0  
Vertical Center of Gravity 10.0

### ELECTRICAL DATA

SYSTEM: 480Y/277V 3Ph 4W 60Hz  
System Ampacity: 400A  
10kA SYMS. SCCR  
Fully Rated

MAIN: MAIN BREAKER LA 400A  
Bottom FEED  
30kA AIR  
INCOMING CONDUCTORS(S) PER NEC, CEC, NOM:  
Wire Bending Space:  
Phase Lugs:1 - #1 - 600,(2)#1 - 250 kcmil

-----BRANCH SUMMATION-----  
2 - 60A/3P EDB                      5 - 30A/3P EDB

JOB NAME:	PIONEER ELEMENTARY	EQUIPMENT DESIGNATION:	HH
JOB LOCATION:		EQUIPMENT TYPE:	NF (Circuit Breaker Type) PANEL 1 OF 1
DRAWN BY:	(Q2C)	DRAWING TYPE:	ONE LINE DIAGRAM
ENGR:			
DATE:	January 26 2024		
DRAWING STATUS:	QUOTE	DWG#	0Q-4640892-135762950-01
		PG	1 OF 1
		REV	-

REV	DESCRIPTION	BY	DATE	---	---	---	---
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## REQUIREMENTS FOR SEISMIC RATING

SQUARE D PANELBOARDS HAVE BEEN TESTED TO IBC/ASCE7/CBC/NBCC.

THE PANELBOARD TYPES LISTED BELOW MEET THE IBC/ASCE7/CBC/NBCC.

PANELBOARD TYPE	ENCLOSURE TYPE
NQ	TYPE 1, 3R, 5, 12, 4/4X (SS)
NQ COLUMN WIDTH	TYPE 1
NF (STANDARD OR COLUMN WIDTH)	TYPE 1, 3R, 5, 12, 4/4X (SS)
I-LINE	TYPE 1, 3R, 5, 12, 4/4X (SS)
QMB	TYPE 1, 3R, 5, 12, 4/4X (SS)

### GUIDELINES:

- 1) BOLT-ON CIRCUIT BREAKERS ARE REQUIRED ON NQ AND NF PANELBOARDS.
- 2) ENCLOSURES MUST BE SECURED TO THE WALL OR STRUCTURE BY UTILIZING ALL MOUNTING HOLES PROVIDED IN THE ENCLOSURE AND SECURED WITH SAE GRADE 5 STEEL BOLTS SIZED PER THE MOUNTING HOLES.

### ANCHORING CONDITIONS

TO MAINTAIN SEISMIC QUALIFICATIONS, EQUIPMENT MUST BE INSTALLED PER MANUAL (SEE GENERAL NOTES) IN ADDITION TO ANY SEISMIC ANCHORING DETAILS PROVIDED BY OTHERS. DO NOT INSTALL EQUIPMENT BEFORE APPROVED SEISMIC ANCHORING DETAILS HAVE BEEN OBTAINED AND SITE PREPARATIONS HAVE BEEN MADE IN ACCORDANCE WITH THE APPROVED SEISMIC ANCHORING DETAILS. ALL POST-INSTALLED ANCHORS SHALL BE APPROVED FOR SEISMIC LOADS.

### CENTER OF GRAVITY:


THE CG INFORMATION PROVIDED BELOW SHOULD ONLY BE USED FOR SEISMIC ANCHORING CALCULATIONS.

ELEVATION CENTER OF GRAVITY: 34.0	"ABOVE BOTTOM OF ENCLOSURE
DEPTH CENTER OF GRAVITY: 6.5	"FROM BACK WALL OF ENCLOSURE
VERTICAL CENTER OF GRAVITY: 10.0	"FROM LEFT WALL OF ENCLOSURE

### SECTION WEIGHT:

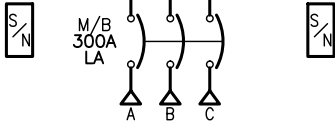
THE WEIGHTS GIVEN BELOW ARE THE MAXIMUM FOR EACH SECTION AND SHOULD BE USED FOR CALCULATING SEISMIC ANCHORING REQUIREMENTS

MAXIMUM PANEL WEIGHT: 234. LBS / 106.KGS

JOB NAME: PIONEER ELEMENTARY	EQUIPMENT DESIGNATION: HH
JOB LOCATION:	EQUIPMENT TYPE: NF (Circuit Breaker Type) PANEL 1 OF 1
DRAWN BY: (Q2C)	DRAWING TYPE: ONE LINE DIAGRAM
ENGR:	 <small>by Schneider Electric</small>
DATE: January 26 2024	
DRAWING STATUS: QUOTE	DWG# OQ-4640892-135762950-S1 PG 1 OF 1 REV -

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

CKT NO	ACCESSORIES	TYPE	RATING AMP/P		RATING AMP/P	TYPE	ACCESSORIES	CKT NO
1								
3		EDB	35/3		35/3	EDB		2
5								4
7								6
9		EDB	35/3		35/3	EDB		8
11								10
13								12
15		EDB	35/3		35/3	EDB		14
17								16
19								18
21		EDB	35/3		35/3	EDB		20
23								22
25	BLANK							24
27	BLANK							26
29	BLANK							28
31	BLANK							30
33	BLANK							32
35	BLANK							34
37	BLANK							36
39	BLANK							38
41	BLANK							40
								42



PHYSICAL DATA

ENCLOSURE Type 3R/5/12  
FRONT CAT#: Trim w/Box  
BOX CAT#: MH68WP

DIMENSIONS:  
68"(1727mm)Hx20"(508mm)Wx6.5"(165mm)D

WIRE BENDING SPACE:  
TOP - 12.25"(312)mm  
BOTTOM - 15"(381)mm  
SIDE - 4.1"(105)mm

PBA: 555

BUSSING: 400A RATED ALUMINUM BUS  
Tin Plated

OPTIONAL FEATURES:  
SEISMICALLY QUALIFIED : IBC/ASCE7/CBC/NBCC  
ALUMINUM SOLID NEUTRAL  
ALUMINUM GROUND BAR  
Maximum Panel Weight 234.  
Depth Center of Gravity 6.5  
Elevation Center of Gravity 34.0  
Vertical Center of Gravity 10.0

ELECTRICAL DATA

SYSTEM: 480Y/277V 3Ph 4W 60Hz  
System Ampacity: 300A  
10kA SYMS. SCCR  
Fully Rated

MAIN: MAIN BREAKER LA 300A  
Bottom FEED  
30kA AIR  
INCOMING CONDUCTORS(S) PER NEC, CEC, NOM:  
Wire Bending Space:  
Phase Lugs:1 - #1 - 600,(2)#1 - 250 kcmil

-----BRANCH SUMMATION-----  
8 - 35A/3P EDB

JOB NAME:	PIONEER ELEMENTARY	EQUIPMENT DESIGNATION:	HG
JOB LOCATION:		EQUIPMENT TYPE:	NF (Circuit Breaker Type) PANEL 1 OF 1
DRAWN BY:	(Q2C)	DRAWING TYPE:	ONE LINE DIAGRAM
ENGR:			
DATE:	January 26 2024		
DRAWING STATUS:	QUOTE	DWG#	0Q-4640892-135763693-01

REV	DESCRIPTION	BY	DATE				
-							

## REQUIREMENTS FOR SEISMIC RATING

SQUARE D PANELBOARDS HAVE BEEN TESTED TO IBC/ASCE7/CBC/NBCC.

THE PANELBOARD TYPES LISTED BELOW MEET THE IBC/ASCE7/CBC/NBCC.

PANELBOARD TYPE	ENCLOSURE TYPE
NQ	TYPE 1, 3R, 5, 12, 4/4X (SS)
NQ COLUMN WIDTH	TYPE 1
NF (STANDARD OR COLUMN WIDTH)	TYPE 1, 3R, 5, 12, 4/4X (SS)
I-LINE	TYPE 1, 3R, 5, 12, 4/4X (SS)
QMB	TYPE 1, 3R, 5, 12, 4/4X (SS)

### GUIDELINES:

- 1) BOLT-ON CIRCUIT BREAKERS ARE REQUIRED ON NQ AND NF PANELBOARDS.
- 2) ENCLOSURES MUST BE SECURED TO THE WALL OR STRUCTURE BY UTILIZING ALL MOUNTING HOLES PROVIDED IN THE ENCLOSURE AND SECURED WITH SAE GRADE 5 STEEL BOLTS SIZED PER THE MOUNTING HOLES.

### ANCHORING CONDITIONS

TO MAINTAIN SEISMIC QUALIFICATIONS, EQUIPMENT MUST BE INSTALLED PER MANUAL (SEE GENERAL NOTES) IN ADDITION TO ANY SEISMIC ANCHORING DETAILS PROVIDED BY OTHERS. DO NOT INSTALL EQUIPMENT BEFORE APPROVED SEISMIC ANCHORING DETAILS HAVE BEEN OBTAINED AND SITE PREPARATIONS HAVE BEEN MADE IN ACCORDANCE WITH THE APPROVED SEISMIC ANCHORING DETAILS. ALL POST-INSTALLED ANCHORS SHALL BE APPROVED FOR SEISMIC LOADS.

### CENTER OF GRAVITY:


THE CG INFORMATION PROVIDED BELOW SHOULD ONLY BE USED FOR SEISMIC ANCHORING CALCULATIONS.

ELEVATION CENTER OF GRAVITY: 34.0	"ABOVE BOTTOM OF ENCLOSURE
DEPTH CENTER OF GRAVITY: 6.5	"FROM BACK WALL OF ENCLOSURE
VERTICAL CENTER OF GRAVITY: 10.0	"FROM LEFT WALL OF ENCLOSURE

### SECTION WEIGHT:

THE WEIGHTS GIVEN BELOW ARE THE MAXIMUM FOR EACH SECTION AND SHOULD BE USED FOR CALCULATING SEISMIC ANCHORING REQUIREMENTS

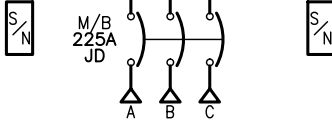
MAXIMUM PANEL WEIGHT: 234. LBS / 106.KGS

JOB NAME:	PIONEER ELEMENTARY	EQUIPMENT DESIGNATION:	HG
JOB LOCATION:		EQUIPMENT TYPE:	NF (Circuit Breaker Type) PANEL 1 OF 1
DRAWN BY:	(Q2C)	DRAWING TYPE:	ONE LINE DIAGRAM
ENGR:			
DATE:	January 26 2024	<small>by Schneider Electric</small>	
DRAWING STATUS:	QUOTE	DWG#	OQ-4640892-135763693-S1
		PG	1 OF 1
		REV	-



REV	DESCRIPTION	BY	DATE				
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CKT NO	ACCESSORIES	TYPE	RATING AMP/P		RATING AMP/P	TYPE	ACCESSORIES	CKT NO
1								
3		EDB	35/3		35/3	EDB		2
5								4
7								6
9		EDB	35/3		35/3	EDB		8
11								10
13								12
15		EDB	35/3		35/3	EDB		14
17								16
19	BLANK							18
21	BLANK							20
23	BLANK							22
25	BLANK							24
27	BLANK							26
29	BLANK							28
31	BLANK							30
33	BLANK							32
35	BLANK							34
37	BLANK							36
39	BLANK							38
41	BLANK							40
								42



### PHYSICAL DATA

ENCLOSURE Type 3R/5/12  
FRONT CAT#: Trim w/Box  
BOX CAT#: MH56WP

DIMENSIONS:  
56"(1422mm)Hx20"(508mm)Wx6.5"(165mm)D

WIRE BENDING SPACE:  
TOP - 5"(127)mm  
BOTTOM - 12.75"(324)mm  
SIDE - 4.1"(105)mm

PBA: 555

BUSSING: 250A RATED ALUMINUM BUS  
Tin Plated

OPTIONAL FEATURES:  
SEISMICALLY QUALIFIED : IBC/ASCE7/CBC/NBCC  
BRANCH USER PLACEMENT  
ALUMINUM SOLID NEUTRAL  
ALUMINUM GROUND BAR  
Maximum Panel Weight 193.  
Depth Center of Gravity 6.5  
Elevation Center of Gravity 28.0  
Vertical Center of Gravity 10.0

### ELECTRICAL DATA

SYSTEM: 480Y/277V 3Ph 4W 60Hz  
System Ampacity: 225A  
10kA SYMS. SCCR  
Fully Rated

MAIN: MAIN BREAKER JD 225A  
Bottom FEED  
18kA AIR  
INCOMING CONDUCTORS(S) PER NEC, CEC, NOM:  
Wire Bending Space:  
Phase Lugs:1 - 3/0 - 350 kcmil

-----BRANCH SUMMATION-----  
7 - 35A/3P EDB

JOB NAME:	PIONEER ELEMENTARY	EQUIPMENT DESIGNATION:	HF
JOB LOCATION:		EQUIPMENT TYPE:	NF (Circuit Breaker Type) PANEL 1 OF 1
DRAWN BY:	(Q2C)	DRAWING TYPE:	ONE LINE DIAGRAM
ENGR:			
DATE:	January 26 2024		
DRAWING STATUS:	QUOTE	DWG#	0Q-4640892-135775331-01

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

## REQUIREMENTS FOR SEISMIC RATING

SQUARE D PANELBOARDS HAVE BEEN TESTED TO IBC/ASCE7/CBC/NBCC.

THE PANELBOARD TYPES LISTED BELOW MEET THE IBC/ASCE7/CBC/NBCC.

PANELBOARD TYPE	ENCLOSURE TYPE
NQ	TYPE 1, 3R, 5, 12, 4/4X (SS)
NQ COLUMN WIDTH	TYPE 1
NF (STANDARD OR COLUMN WIDTH)	TYPE 1, 3R, 5, 12, 4/4X (SS)
I-LINE	TYPE 1, 3R, 5, 12, 4/4X (SS)
QMB	TYPE 1, 3R, 5, 12, 4/4X (SS)

### GUIDELINES:

- 1) BOLT-ON CIRCUIT BREAKERS ARE REQUIRED ON NQ AND NF PANELBOARDS.
- 2) ENCLOSURES MUST BE SECURED TO THE WALL OR STRUCTURE BY UTILIZING ALL MOUNTING HOLES PROVIDED IN THE ENCLOSURE AND SECURED WITH SAE GRADE 5 STEEL BOLTS SIZED PER THE MOUNTING HOLES.

### ANCHORING CONDITIONS

TO MAINTAIN SEISMIC QUALIFICATIONS, EQUIPMENT MUST BE INSTALLED PER MANUAL (SEE GENERAL NOTES) IN ADDITION TO ANY SEISMIC ANCHORING DETAILS PROVIDED BY OTHERS. DO NOT INSTALL EQUIPMENT BEFORE APPROVED SEISMIC ANCHORING DETAILS HAVE BEEN OBTAINED AND SITE PREPARATIONS HAVE BEEN MADE IN ACCORDANCE WITH THE APPROVED SEISMIC ANCHORING DETAILS. ALL POST-INSTALLED ANCHORS SHALL BE APPROVED FOR SEISMIC LOADS.

### CENTER OF GRAVITY:


THE CG INFORMATION PROVIDED BELOW SHOULD ONLY BE USED FOR SEISMIC ANCHORING CALCULATIONS.

ELEVATION CENTER OF GRAVITY: 28.0	"ABOVE BOTTOM OF ENCLOSURE
DEPTH CENTER OF GRAVITY: 6.5	"FROM BACK WALL OF ENCLOSURE
VERTICAL CENTER OF GRAVITY: 10.0	"FROM LEFT WALL OF ENCLOSURE

### SECTION WEIGHT:

THE WEIGHTS GIVEN BELOW ARE THE MAXIMUM FOR EACH SECTION AND SHOULD BE USED FOR CALCULATING SEISMIC ANCHORING REQUIREMENTS

MAXIMUM PANEL WEIGHT: 193. LBS / 87.6KGS

JOB NAME: PIONEER ELEMENTARY	EQUIPMENT DESIGNATION: HF
JOB LOCATION:	EQUIPMENT TYPE: NF (Circuit Breaker Type) PANEL 1 OF 1
DRAWN BY: (Q2C)	DRAWING TYPE: ONE LINE DIAGRAM
ENGR:	 <small>by Schneider Electric</small>
DATE: January 26 2024	
DRAWING STATUS: QUOTE	DWG# OQ-4640892-135775331-S1 PG 1 OF 1 REV -