North Charles to Cohool Madamiration	
North Stonington School Modernization	DOWNES CONSTRUCTION COMPANY
297/298/311 Norwich-Westerly Road	DOWNES CONSTRUCTION COMPAINT
North Stonington, CT 06359 DCC Job #: 25-01-0345	Date: 06/22/18
Architect: QA&M Architecture	Date. 00/22/10
MEP Engineer: RZ Design Associates, Inc.	Subcontractor/ Vendor: Banton Construction Company
Structural Engineer: Perrone & Zajda Engineers, LLC	
Civil Engineer: CLA Engineers, Inc.	
Landscape Architect: TO Design, LLC	
Food Service Consultant: Crabtree McGrath Associates, Inc.	Submittal Description:
Downes Construction Company, LLC	
P.O. Box 727 200 Stanley Street	Switchboards
New Britain, CT 06050	Product Data, Shop Drawings & Manufacturer's Instructions
Attn: Travis Burton	262413-001-002-A
Construction Manager's Stamp Area:	
CONTROL OF THE PROPERTY OF THE	
SUBMITTAL REVIEW	Page: 489
DOWNES CONSTRUCTION COMPANY, LLC	Paragraph:
Commission of the Commission o	First Submission:
REVIEWED FOR SUBMISSION REJECTED	Resubmission #: 1
TO ARCHITECT / ENGINEER	Resubilission #.
NEW YORK CONTRACTOR OF THE PROPERTY OF THE PRO	Submitted as Specified:
DOWNES CONSTRUCTION COMPANY'S REVIEW IS FOR	Submitted as Substitution (As equal):
GENERAL CONFORMANCE WITH THE CONTRACT DOCUMENTS. MARKINGS AND/OR COMMENTS SHALL NOT	_
BE CONSTRUED AS RELIEVING THE TRADE CONTRACTOR	Elementary School: Provide submittal for
FROM COMPLIANCE WITH THE CONTRACT DOCUMENTS.	High School/Middle School: X FACH SCHOOL
TD 6/25/2018	Board of Education:
BY: TB DATE 0/23/2018	Community.
SPECS 262413 SUBMITTAL 001	Comments:
SECTION: NUMBER CONTRACT REVIEW	
DWG. NO.: 000 NUMBER: 1	
Conditional Control of the Control o	CONTRACTOR HAS DETERMINED AND VERIFIED MATERIALS, FIELD MEASUREMENTS
	AND FIELD CRITERIA AND HAS CHECKED AND COORDINATED THE INFORMATION
	CONTAINED IN THIS SUBMITTAL WITH THE REQUIREMENTS OF THE WORK AND OF
	THE CONTRACT DOCUMENTS AND RECOMMENDS APPROVAL BY THE CONSTRUCTION MANAGER / ARCHITECT / ENGINEER.
	Control of manager ( red in Eq. ) and in Eq.
Architect's Stamp Area:	Engineer's Stamp Area (As Required):
No Exception Taken □ Make Corrections Noted	SHOP DRAWING REVIEW
No Exception Taken	REVIEW IS FOR GENERAL COMPLIANCE WITH CONTRACT DOCUMENTS
☐ Rejected ☐ Revise and Resubmit	NO RESPONSIBILITY IS ASSUMED FOR CORRECTNESS OF DIMENSIONS OR DETAILS
· ·	DIMENSIONS OR DETAILS
☐ Reviewed ☐ Provide Record Copy	NO EXCEPTIONS TAKEN
Review is only for GENERAL COMPLIANCE with design and	MAKE CORRECTIONS NOTED
information given in contract documents. Any action shown is	AMEND AND RESUBMIT
subject to the requirements of the PLANS and SPECIFICATIONS.	REJECTED – SEE REMARKS
Submitting contractor is responsible for, dimensions which shall be verified in the field fabrication processes, techniques of	
construction, coordination with other trades and satisfactory	RZ Design Associates, Inc.
completions of his work in a safe manner.	
OHISENBEDDY ADCADLMALIK LLC	
QUISENBERRY ARCARI MALIK, LLC	DATE_6/29/18 BY_BJZ
DATE: 06-29-18 BY:	DATEBI
	4
Received Stamp Area:	
RECEIVED	

06-29-18

Quisenberry Arcari Architects, LLC



Yale Electric Supply 55 Shawmut Road Canton, MA 02021



# SUBMITTAL/DRAWING REVIEW COMMENT RESPONSES

Date: Friday, June 22, 2018

Project: North Stonington HS/MS

Equipment: Switchboard

## RESPONSE(S):

- 1. SWBD Provided 90" tall per discussions with Banton Construction
- 2. Pull Sections Provided
- 3. Electronic trip units provided on all breakers call out for in the schedule per the Addendum
- 4. AIC Rating Coordinated with the SCC & Arc Flash Studies
- 5. Contractors responsibility
- 6. Breakers settings to be Field Adjusted.

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North Stonington School Modernization	DOWNES CONSTRUCTION COMPAN
297/298/311 Norwich-Westerly Road	DOWNES CONSTRUCTION COMPAN
North Stonington, CT 06359	
DCC Job #: 25-01-0345	Date: May 10, 2018
Architect: QA&M Architecture	
MEP Engineer: RZ Design Associates, Inc.	Subcontractor/ Vendor:
Structural Engineer: Perrone & Zajda Engineers, LLC	Banton Construction Company
Civil Engineer: CLA Engineers, Inc. Landscape Architect: TO Design, LLC	
Food Service Consultant: Crabtree McGrath Associates, Inc.	Submittal Description:
Downes Construction Company, LLC	SWITCHBOARDS
P.O. Box 727	Product Data, Drawings & Instruction Data
200 Stanley Street	r roddot Bata, Brannigo a mottaction Bata
New Britain, CT 06050	
Attn: Travis Burton	
Construction Manager's Stamp Area:	Spec. Section: 262413-001-001-A
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SUBMITTAL REVIEW	Page 400
SUDIVITI FAL NEVIEW	Page: 489
DOWNES CONSTRUCTION COMPANY, LLC	Paragraph:
	First Submission: X
REVIEWED FOR SUBMISSION REJECTED	Resubmission #:
TO ARCHITECT / ENGINEER	Noodaliilooloii ir.
	Submitted as Specified:
DOWNES CONSTRUCTION COMPANYS REVIEW IS FOR	Submitted as Substitution (As equal):
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BE CONSTRUED AS RELIEVING THE TRADE CONTRACTOR	Elementary School: Provide submittal for
FROM COMPLIANCE WITH THE CONTRACT DOCUMENTS.	High School/Middle School: X EACH SCHOOL
E/4.4/2049	Board of Education:
BY: TB 5/14/2018	
SDECS SUBMITTM	Comments:
SECTION: 262413 NUMBER 001	
CONTRACT REVIEW	
DWG. NO.: 000 NUMBER: 00	
Carried Annual Control of the Contro	CONTRACTOR HAS DETERMINED AND VERIFIED MATERIALS, FIELD MEASUREMENTS
	AND FIELD CRITERIA AND HAS CHECKED AND COORDINATED THE INFORMATION CONTAINED IN THIS SUBMITTAL WITH THE REQUIREMENTS OF THE WORK AND OF
	THE CONTRACT DOCUMENTS AND RECOMMENDS APPROVAL BY THE
	CONSTRUCTION MANAGER / ARCHITECT / ENGINEER.
Architect's Stamp Area:	Engineer's Stamp Area (As Required):
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RZ REVIEW COMMENTS: 1. PROVIDE 80" TALL SWITCHBOARD	SHOP DRAWING REVIEW
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## **Detail Bill of Material**

Project Name: North Stonington Schools-

V0880221X8K1

General Order No: LBS0019150 Alternate No: R001

**Negotiation No:** 

Item No.QtyProductDescription0021SwitchboardsPow-R-Line 0

Pow-R-Line CSwitchboard, Front Access/ Front and Rear Align, Type 1, 480Y/277V 3-Phase 4-Wire, 2500 Copper, Minimum Interrupting Rating: 65kA, Bus Bracing Rating: 65kA

**Designation** SWBD

### Qty List of Materials

- Pow-R-Line C
- Service Entrance Label
- 1 2500 Amp CU Main Structure
- 1 2500A Utility Metering NORTHEAST UTILITIES
- Digitrip 310+ ALSIG w/ ArcFlash Reduction Maintenance System
- 2 Vertical Isol. Barrier (Service Entrance)
- 1 Horizontal Isol. Barrier (Service Entrance)
- 1 2500 Amp CU Bussed Incoming Pull Section
- 1 2500 Amp CU Distribution Structure
- 2 Digitrip 310+ LSI
- 11 Thermal Mag Trip Standard
- 1 2500A 3P [RGH 2500A Frame], Trip 2500 A, 310+ w/ ARMS, (7) #4-500 kcmil, Mechanical, Bottom
- 2 1200A Adj, 3P [NGH 1200A Frame], Trip 1200 A, 310+, (4) 4/0-500 kcmil, Mechanical
- 350A 3P [HKD 400A Frame], Trip 350 A, Thermal Mag, (1) 250-500 kcmil, Mechanical
- 1 200A 3P [HFD 225A Frame], Trip 200 A, Thermal Mag, (1) #4-4/0, Mechanical
- 1 225A 3P [HFD 225A Frame], Trip 225 A, Thermal Mag, (1) #4-4/0, Mechanical
- 2 175A 3P [HFD 225A Frame], Trip 175 A, Thermal Mag, (1) #4-4/0, Mechanical
- 1 150A 3P [HFD 225A Frame], Trip 150 A, Thermal Mag, (1) #4-4/0, Mechanical
- 1 125A 3P [HFD 225A Frame], Trip 125 A, Thermal Mag, (1) #4-4/0, Mechanical
- 1 250A 3P [HJD 250A Frame], Trip 250 A, Thermal Mag, (1) #4-350 kcmil, Mechanical
- 1 100A 3P [HFD 225A Frame], Trip 100 A, Thermal Mag, (1) #14-1/0, Mechanical
- 80A 3P [HFD 225A Frame], Trip 80 A, Thermal Mag, (1) #14-1/0, Mechanical
- 1 600A 3P [LGH 600A Frame], Trip 600 A, Thermal Mag, (2) #2-500 kcmil, Mechanical

#### Eaton Selling Policy 25-000 applies.

All orders must be released for manufacture within 90 days of date of order entry. If approval drawings are required, drawings must be returned approved for release within 60 days of mailing. If drawings are not returned accordingly, and/or if shipment is delayed for any reason, the price of the order will increase by 1.0% per month or fraction there of for the time the shipment is delayed.

## **Switchboard General Information**

Pow-R-Line C - Specifications

Quantity: 1

Alignment: Front Access/ Front and Rear Align

Service: 480Y/277V 3-Phase 4-Wire Minimum Interrupt Rating: 65 kA

**Bus Specifications** 

Bus Amps: 2500 Bus Bracing Rating: 65kA

Neutral Amps: 2500

Bus Material: Copper Heat Test

Ground Bus Material: Copper .25 X 2.0 Ground Bus Bolted To

Frame, (1) #6-350 kcmil Ground Lug

Incoming Information

Incoming Entry: Bottom Incoming Location: Left

Incoming Qty & Size: Terminals, Mechanical, Bottom, (7) #4-500

kcmil

Structure Specifications Service Entrance Enclosure Type: Type 1

**Utility Specfications** 

Struct # 2

2500 Amps Util. Mtr. Compt. - NORTHEAST UTILITIES

Plant Drawing: 1C97111

**Code NEU** 

**Enclosure properties** 

Struct # Description/Modifications

1 Bussed pulled Structure (Incoming Utility Structures)

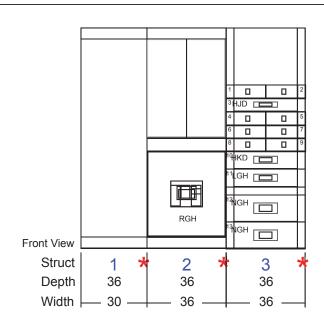
Vertical isolating barrier

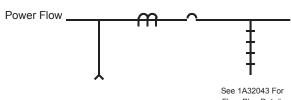
2 Incoming Utility Structures (Incoming Utility Section)

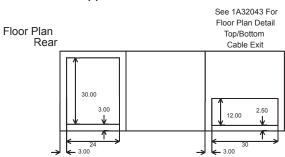
Vertical isolating barrier Horizontal isolating barrier

3 50x chassis mounted feeders (Feeder Structure)

The information on this document is	PREPARED BY	DATE				
created by Eaton Corporation. It is disclosed in confidence and it is only to	KENNY BRYSON	KENNY BRYSON 6/21/2018 Eaton SumterSC			SumterSC	
be used for the purpose in which it is	APPROVED BY DATE		JOB NAME	North Stoningt	North Stonington Schools-V0880221X8K1	
supplied.			DESIGNATION	SWBD		
	VER	SION	TYPE		DRAWING TYPE	
	9.0	.8.0	Switchboards		CustAppr	
NEG-ALT Number	REVISION	DWG SIZE	G.O.		ITEM	SHEET
V0880221X8K1-R001	0	DwgA	LBS0019150		002	1 of 4







Total of 3 Structures, Total Weight of 2832 Weight-Lbs. Total of 3 Structures, Total Width of 102 Inches

Structure	1	2	3		
Ship-Inches	30.00	36.00	36.00		
Ship-MM	762	914	914		
Wdth-Inches	30.00	36.00	36.00		
Wdth-MM	762	914	914		
Depth(Inner)-In.	36.00	36.00	36.00		
Depth(Inner)-MM	914	914	914		
Depth(Outer)-In.	36.00	36.00	36.00		
Depth(Outer)-MM	914	914	914		
Height-Inches	90.00	90.00	90.00		
Height-MM	2286	2286	2286		
Weight-Lbs.(Est.)	670	1125	1037		
Weight-Kg.(Est.)	303	510	470		

	PREPARED BY KENNY BRYSON	DATE 6/21/2018	Eaton		SumterSC	
be used for the purpose in which it is	APPROVED BY DATE JO		JOB NAME	North Stonington Schools-V0880221X8K1		
supplied.			DESIGNATION	SWBD		
	VER	SION	TYPE		DRAWING TYPE	
	9.0.8.0		Switchboards		CustAppr	
NEG-ALT Number	REVISION	DWG SIZE	G.O.		ITEM	SHEET
V0880221X8K1-R001	0	DwgA	LBS0019150		002	2 of 4

		Switchboard Units Information	
r# U	nit	Description/Modifications	Nameplate
		Main Breaker - Ind Mtd-2500A 3P [RGH 2500A Frame], Trip 2500A., 310+ w/ ARMS, ALSIG Terminals, Mechanical, (7) #4-500 kcmil, Bottom Neutral Terminal, (7) #4-500 kcmil	
		2500A Utility Metering - NORTHEAST UTILITIES	
1		Feeder Breaker - Chassis Mtd-100A 3P [HFD 225A Frame], Trip 100A., Thermal Mag Terminals, Mechanical, (1) #14-1/0 Neutral Terminal, (1) #14-1/0	
2		Feeder Breaker - Chassis Mtd-80A 3P [HFD 225A Frame], Trip 80A., Thermal Mag Terminals, Mechanical, (1) #14-1/0 Neutral Terminal, (1) #14-1/0	
3		Feeder Breaker - Chassis Mtd-250A 3P [HJD 250A Frame], Trip 250A., Thermal Mag Terminals, Mechanical, (1) #4-350 kcmil Neutral Terminal, (1) #6-350 kcmil	
4		Feeder Breaker - Chassis Mtd-150A 3P [HFD 225A Frame], Trip 150A., Thermal Mag Terminals, Mechanical, (1) #4-4/0 Neutral Terminal, (1) #6-350 kcmil	
5		Feeder Breaker - Chassis Mtd-125A 3P [HFD 225A Frame], Trip 125A., Thermal Mag Terminals, Mechanical, (1) #4-4/0 Neutral Terminal, (1) #6-350 kcmil	
6		Feeder Breaker - Chassis Mtd-175A 3P [HFD 225A Frame], Trip 175A., Thermal Mag Terminals, Mechanical, (1) #4-4/0 Neutral Terminal, (1) #6-350 kcmil	
7		Feeder Breaker - Chassis Mtd-175A 3P [HFD 225A Frame], Trip 175A., Thermal Mag Terminals, Mechanical, (1) #4-4/0 Neutral Terminal, (1) #6-350 kcmil	
8		Feeder Breaker - Chassis Mtd-200A 3P [HFD 225A Frame], Trip 200A., Thermal Mag Terminals, Mechanical, (1) #4-4/0 Neutral Terminal, (1) #6-350 kcmil	
9		Feeder Breaker - Chassis Mtd-225A 3P [HFD 225A Frame], Trip 225A., Thermal Mag Terminals, Mechanical, (1) #4-4/0 Neutral Terminal, (1) #6-350 kcmil	

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be used for the purpose in which it is	APPROVED BY	DATE	DATE JOB NAME North Stonington Schools-V088022		on Schools-V0880221X8K1	:1X8K1	
supplied.			DESIGNATION	ATION SWBD			
	VER	SION	TYPE		DRAWING TYPE		
	9.0	8.0	Switchboards		CustAppr		
NEG-ALT Number	REVISION	DWG SIZE	G.O.		ITEM	SHEET	
V0880221X8K1-R001	0	DwgA	LBS0019150		002	3 of 4	

- Feeder Breaker Chassis Mtd-350A 3P [HKD 400A Frame], Trip 350A., Thermal Mag Terminals, Mechanical, (1) 250-500 kcmil
  Neutral Terminal, (1) #4-500 kcmil
- Feeder Breaker Chassis Mtd-600A 3P [LGH 600A Frame], Trip 600A., Thermal Mag Terminals, Mechanical, (2) #2-500 kcmil
  Neutral Terminal, (2) #4-500 kcmil
- Feeder Breaker Chassis Mtd-1200A Adj, 3P [NGH 1200A Frame], Trip 1200A., 310+, LSI Terminals, Mechanical, (4) 4/0-500 kcmil
  Neutral Terminal, (4) #4-500 kcmil
- Feeder Breaker Chassis Mtd-1200A Adj, 3P [NGH 1200A Frame], Trip 1200A., 310+, LSI Terminals, Mechanical, (4) 4/0-500 kcmil
  Neutral Terminal, (4) #4-500 kcmil

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supplied.			DESIGNATION	SWBD	SWBD		
	VER	SION	TYPE		DRAWING TYPE		
	9.0	.8.0	Switchboards		CustAppr		
NEG-ALT Number	REVISION	DWG SIZE	G.O.		ITEM	SHEET	
V0880221X8K1-R001	0	DwaA	LBS0019150		002	4 of 4	