

2.12 ENCLOSURES

A. NEMA 1 ENCLOSURE

2.13 NAMEPLATES

A. ENGRAVED NAMEPLATES, MOUNTED ON THE FACE OF THE ASSEMBLY, SHALL BE FURNISHED FOR ALL MAIN AND FEEDER CIRCUITS AS INDICATED ON THE DRAWINGS. NAMEPLATES SHALL BE LAMINATED PLASTIC, BLACK CHARACTERS ON WHITE BACKGROUND. CHARACTERS SHALL BE 3/16-INCH HIGH, MINIMUM. NAMEPLATES SHALL GIVE ITEM DESIGNATION AND CIRCUIT NUMBER AS WELL AS FRAME AMPERE SIZE AND APPROPRIATE TRIP RATING. FURNISH MASTER NAMEPLATE GIVING SWITCHBOARD DESIGNATION, VOLTAGE AMPERE RATING, SHORT-CIRCUIT RATING, MANUFACTURER'S NAME, GENERAL ORDER NUMBER, AND ITEM NUMBER.

B. CONTROL COMPONENTS MOUNTED WITHIN THE ASSEMBLY, SUCH AS FUSE BLOCKS, RELAYS, PUSHBUTTONS, SWITCHES, ETC., SHALL BE SUITABLY MARKED FOR IDENTIFICATION CORRESPONDING TO APPROPRIATE DESIGNATIONS ON MANUFACTURER'S WIRING DIAGRAMS.

2.14 FINISH

A. ALL EXTERIOR AND INTERIOR STEEL SURFACES OF THE SWITCHBOARD SHALL BE PROPERLY CLEANED AND PROVIDED WITH A RUST-INHIBITING PHOSPHATIZED COATING. COLOR AND FINISH OF THE SWITCHBOARD SHALL BE ANSI 61 LIGHT GRAY.

PART 3 EXECUTION

3.01 FACTORY TESTING

A. THE FOLLOWING STANDARD FACTORY TESTS SHALL BE PERFORMED ON THE EQUIPMENT PROVIDED UNDER THIS SECTION. ALL TESTS SHALL BE IN ACCORDANCE WITH THE LATEST VERSION OF ANSI AND NEMA STANDARDS.

1. THE SWITCHBOARD SHALL BE COMPLETELY ASSEMBLED, WIRED, ADJUSTED, AND TESTED AT THE FACTORY. AFTER ASSEMBLY, THE COMPLETE SWITCHBOARD WILL BE TESTED FOR OPERATION UNDER SIMULATED SERVICE CONDITIONS TO ENSURE THE ACCURACY OF THE WIRING AND THE FUNCTIONING OF ALL EQUIPMENT. THE MAIN CIRCUITS SHALL BE GIVEN A DIELECTRIC TEST OF 2200 VOLTS FOR ONE (1) MINUTE BETWEEN LIVE PARTS AND GROUND, AND BETWEEN OPPOSITE POLARITIES. THE WIRING AND CONTROL CIRCUITS SHALL BE GIVEN A DIELECTRIC TEST OF 1500 VOLTS FOR ONE (1) MINUTE BETWEEN LIVE PARTS AND GROUND

B. THE MANUFACTURER SHALL PROVIDE THREE (3) CERTIFIED COPIES OF FACTORY TEST REPORTS.

C. FACTORY TO CONNECT AND SETUP ETHERNET GATEWAYS AND/OR DATA AGGREGATION PROCESSORS (SUCH AS EATON PXG900 OR POWER XPERT DASHBOARD LITE) INCLUDED IN SWITCHBOARD ASSEMBLIES. FACTORY TESTING SHOULD ALSO INCLUDE CONFIRMATION THAT THE PROCESSOR AND DISPLAY COMMUNICATE WITH EACH OTHER AND THAT EVERY DEVICE CONNECTED TO THE PROCESSOR IS COMMUNICATING WITH THE PROCESSOR. ADDRESSES FOR THE COMMUNICATING DEVICES IN THESE NETWORKS WILL BE INDICATED ON FACTORY SUPPLIED COMMUNICATION DRAWINGS.

3.02 TRAINING

A. THE CONTRACTOR SHALL PROVIDE A TRAINING SESSION FOR UP TO FIVE (5) OWNER'S REPRESENTATIVES FOR 3 NORMAL WORKDAYS AT A JOB SITE LOCATION DETERMINED BY THE OWNER.

B. A MANUFACTURER'S QUALIFIED REPRESENTATIVE SHALL CONDUCT THE TRAINING SESSION. THE TRAINING PROGRAM SHALL CONSIST OF INSTRUCTION ON OPERATION OF THE ASSEMBLY, CIRCUIT BREAKERS, FUSED SWITCHES, AND MAJOR COMPONENTS WITHIN THE ASSEMBLY.

3.03 INSTALLATION

A. THE CONTRACTORS SHALL INSTALL ALL EQUIPMENT PER THE MANUFACTURER'S INSTRUCTIONS, CONTRACT DRAWINGS AND NATIONAL ELECTRICAL CODE.

B. THE ASSEMBLY SHALL BE PROVIDED WITH ADEQUATE LIFTING MEANS AND SHALL BE CAPABLE OF BEING MOVED INTO INSTALLATION POSITION AND BOLTED DIRECTLY TO CONTRACTOR SUPPLIED FLOOR SILLS TO BE SET LEVEL IN CONCRETE PER MANUFACTURER'S RECOMMENDATIONS. ALL NECESSARY HARDWARE TO SECURE THE ASSEMBLY IN PLACE SHALL BE PROVIDED BY THE CONTRACTOR.

3.04 FIELD ADJUSTMENTS

A. THE CONTRACTOR SHALL PERFORM FIELD ADJUSTMENTS OF THE PROTECTIVE DEVICES AS REQUIRED TO PLACE THE EQUIPMENT IN FINAL OPERATING CONDITION. THE SETTINGS SHALL BE IN ACCORDANCE WITH THE APPROVED SHORT-CIRCUIT STUDY, PROTECTIVE DEVICE EVALUATION STUDY AND PROTECTIVE DEVICE COORDINATION STUDY.

B. NECESSARY FIELD SETTINGS OF DEVICES, ADJUSTMENTS AND MINOR MODIFICATIONS TO EQUIPMENT TO ACCOMPLISH CONFORMANCE WITH AN APPROVED SHORT CIRCUIT AND PROTECTIVE DEVICE COORDINATION STUDY SHALL BE CARRIED OUT BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER.

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KEY PLAN

REV	DESCRIPTION	DATE
	ISSUED FOR DOB SUBMISSION	09/10/2021
	ISSUED FOR BID	10/15/2021
	ISSUED FOR PROGRESS	01/18/2022
	ISSUED FOR BID	08/30/2022

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DATE :	09/10/21
SCALE :	N.T.S.

DRAWING TITLE :
**SWITCHBOARD SPECIFICATION
SHEET 2 OF 2**

DWG NUMBER :

E-907

TO THE BEST KNOWLEDGE, BELIEF AND PROFESSIONAL JUDGEMENT,
THESE PLANS AND SPECIFICATIONS ARE IN COMPLIANCE WITH THE 2020
ENERGY CONSERVATION CONSTRUCTION CODE OF NEW YORK STATE.