

Wharf Reconstruction (Phase II)

Grand Bank, NL

2021-04-04

PART 1 - GENERAL

1.1 SECTION INCLUDES .1 Materials and installation for standard and custom breaker type panelboards.

1.2 RELATED SECTIONS .1 Section 01 33 00 - Submittal Procedures.
.2 Section 26 28 21 - Moulded Case Circuit Breakers.
.3 Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 01 Specification Sections, apply to this Section.

1.3 SHOP DRAWINGS .1 Submit shop drawings in accordance with Section 01 33 00 - Submittal Procedures.
.2 Drawings to include electrical detail of panel, branch breaker type, quantity, ampacity and enclosure dimension.

PART 2 - PRODUCTS

2.1 PANELBOARDS .1 Panelboards: to CSA C22.2 No. 29 and product of one manufacturer.
1. Install circuit breakers in panelboards before shipment.
2. In addition to CSA requirements manufacturer's nameplate must show fault current that panel including breakers has been built to withstand.
.2 250V panelboards: bus and breakers rated for 18,000 A (symmetrical) interrupting capacity or as indicated.
.3 250 V panelboards shall be complete with bolt-on circuit breakers.

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- .4 Sequence phase bussing with odd numbered breakers on left and even on right, with each breaker identified by permanent number identification as to circuit number and phase.
- .5 Panelboards: mains, number of circuits, and number and size of branch circuit breakers as indicated.
- .6 Two keys for each panelboard and key panelboards alike.
- .7 Copper bus with neutral of same ampere rating as mains.
- .8 Mains: suitable for bolt-on breakers.
- .9 Trim with concealed front bolts and hinges.
- .10 Trim and door finish: baked grey enamel.
- .11 Panel to be complete with main breaker as indicated.

2.2 BREAKERS

- .1 Breakers: to Section 26 28 21- Moulded Case Circuit Breakers.
- .2 Breakers with thermal and magnetic tripping in panelboards except as indicated otherwise.

2.3 EQUIPMENT IDENTIFICATION

- .1 Provide equipment identification in accordance with Section 26 05 01 - Common Work Results - Electrical.
- .2 Nameplate for each panelboard size 4 engraved as indicated. Indicate on nametag the supply distribution panelboard.
- .3 Complete circuit directory with typewritten legend showing location and

load of each circuit.

PART 3 - EXECUTION

3.1 INSTALLATION

- .1 Locate panelboards as indicated and mount securely, plumb, true and square, to adjoining surfaces.
- .2 Install surface mounted panelboards in enclosure or as indicated.
- .3 Mount panelboards to height specified in Section 26 05 01 or as indicated.
- .4 Connect loads to circuits.
- .5 Connect neutral conductors to common neutral bus with respective neutral identified.