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**Washroom Buildings Recapitalization**  
**Buildings 32, 34 & 38**  
**Newman Sound Campground**  
**Terra Nova National Park, NL**  
**Proj. No.: R.079272.001**

Section 23 82 33.02 – Heavy Duty Baseboard Heaters

Page 1 of 3

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**1.1 SUMMARY**

.1 Section Includes:

.1 Heavy duty baseboard heaters, controls and installation.

**1.2 RELATED SECTIONS**

.1 Section 26 05 00 – Common Work Results - Electrical.

**1.3 REFERENCES**

.1 Canadian Standards Association (CSA)

.1 CSA C22.2 No.46, Electric Air-Heaters.

.2 Health Canada/Workplace Hazardous Materials Information System (WHMIS)

.1 Material Safety Data Sheets (MSDS).

**1.4 SUBMITTALS**

.1 Product Data:

.1 Submit manufacturer's printed product literature, specifications and datasheet in accordance with Section 01 33 00 - Submittal Procedures. Include product characteristics, performance criteria, and limitations.

.1 Submit two copies of Workplace Hazardous Materials Information System (WHMIS) Material Safety Data Sheets (MSDS) in accordance with Section 01 33 00 - Submittal Procedures.

.2 Submit product data sheets for baseboard heaters. Include:

.1 Product characteristics.

.2 Performance criteria.

.3 Mounting methods.

.4 Physical size.

.5 kW rating, voltage, phase.

.6 Cabinet material thicknesses.

.7 Limitations.

.8 Colour and finish.

.2 Quality assurance submittals: submit following in accordance with Section 01 33 00 - Submittal Procedures.

.1 Certificates: submit certificates signed by manufacturer certifying that materials comply with specified performance characteristics and physical properties.

.2 Instructions: submit manufacturer's installation instructions.

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Page 2 of 3

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- .3 Closeout Submittals:
  - .1 Submit operation and maintenance data for baseboard heaters in accordance with Section 01 78 00 - Closeout Submittals

**1.5 QUALITY ASSURANCE**

- .1 Health and Safety:
  - .1 Do construction occupational health and safety in accordance with Section 01 35 28 - Health and Safety Requirements.

**1.6 DELIVERY, STORAGE, AND HANDLING**

- .1 Packing, shipping, handling and unloading:
  - .1 Deliver, store and handle in accordance with manufacturer's written instructions and Section 01 61 00 - Common Product Requirements.
- .2 Waste Management and Disposal:
  - .1 Construction/Demolition Waste Management and Disposal: separate waste materials for reuse and recycling in accordance with Division 01.

**PART 2 PRODUCTS**

**2.1 MANUFACTURERS**

- .1 Acceptable Product:
  - .1 Ouellet
  - .2 Dimplex
  - .3 Chromalox
  - .4 Stelpro.

**2.2 HEAVY DUTY BASEBOARD HEATERS**

- .1 Wall mounted cabinet: to CSA C22.2 No.46, pre-drilled back for securing to wall:
  - .1 White in color.
  - .2 240 V rated.
  - .3 Epoxy/polyester powder paint.
  - .4 16 gauge steel front.
  - .5 18 gauge steel cabinet.
  - .6 Full length built in wireway.
  - .7 Louvre grille.

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Page 3 of 3

- .8 Linear high-limit temperature control with automatic reset.
- .9 Stainless steel tubular heating element with aluminum fins.
- .10 Floating heating element on high-temperature nylon bushings.
- .11 Complete with built in thermostat.

**2.3 CONTROLS**

- .1 Built-in thermostat.

**PART 3 EXECUTION**

**3.1 MANUFACTURER'S INSTRUCTIONS**

- .1 Compliance: comply with manufacturer's written recommendations or specifications, including product technical bulletins, handling, storage and installation instructions, and datasheet.

**3.2 INSTALLATION**

- .1 Install heaters as indicated.
- .2 Make power and control connections.

**3.3 CLEANING**

- .1 Proceed in accordance with Section 01 74 11 - Cleaning.
- .2 Upon completion and verification of performance of installation, remove surplus materials, excess materials, rubbish, tools and equipment.

**3.4 COMMISSIONING TESTS**

- .1 Perform tests in accordance with Section 26 05 00- Common Work Results - Electrical and Division 01.

**END OF SECTION**