

SECTION 10 80 00

MISCELLANEOUS SPECIALTIES

PART 1 GENERAL

1.1 SUMMARY

- A. Comply with Division 1, General Requirements.

1.2 SYSTEM DESCRIPTION

- A. Design for expansion and contraction of materials as required.
- B. Design specified systems, anchors, fastenings and secondary support system to withstand applicable loads established by the National Building Code of Canada and applicable local regulations for the locality. Design work of this Section, which will support other items or will be required to support structural loads of any nature, by a professional engineer licensed in the Province of Manitoba. Affix professional seal and signature to shop drawings for such items.

1.3 REFERENCES

- A. National Building Code (NBC)
- B. Comply with the latest edition of the following statutes codes and standards and all amendments thereto.
  - 1. ASTM A167 Standard Specification for Stainless and Heat-Resisting Chromium - Nickel Steel Plate, Sheet and Strip.
  - 2. ASTM B209 Standard Specification for Aluminum and Aluminum-Alloy Sheet and Plate.
  - 3. ASTM B221 Standard Specification for Aluminum-Alloy Extruded Bars, Rods, Wire, Profiles, and Tubes.
  - 4. CAN/CGSB 1.88 Gloss Alkyd Enamel, Air Drying and Baking.
  - 5. CSA G40.21 General Requirements for Rolled or Welded Structural Quality Steel.
  - 6. CSA W59 Welded Steel Construction (Metal Arc Welding).

1.4 SUBMITTALS

- A. Submit Shop Drawings:
  - 1. Indicate and describe in detail items of this Section.
  - 2. Include large-scale details of members and materials, anchorage devices where required, dimensions, thicknesses, description of materials, metal finishing specifications, and other pertinent information.
  - 3. Submit manufacturer's installation instructions.

NORTH END SEWAGE TREATMENT PLANT (NEWPCC) HEADEND DISCHARGE WELL  
STRUCTURAL UPGRADES  
BID OPPORTUNITY NO. 366-2016

1.5 WARRANTY

- A. Submit manufacturer's five-year warranty.

PART 2 PRODUCTS

2.1 MATERIALS

- A. Aluminum Sheet: ASTM B209.
- B. Aluminum Extrusions: ASTM B221.
- C. Isolation Coating: ASTM D1187, Bituminous Coating.

2.2 MANUFACTURED UNITS

- A. Alternating Tread Stairs:
  - 1. Provide aluminum alternating tread stair at 68° from horizontal by Lapeyre Stair Inc.
  - 2. Submit shop drawings for acceptance prior to fabrication.
  - 3. Space risers equally to within 4.8 mm for adjacent risers and to within 9.6 mm for any two non-adjacent risers on a stair.
  - 4. Provide stainless steel fasteners.

2.3 FABRICATION

- A. Fabricate accessories true, square, rigid, free from distortion and from defects detrimental to appearance and performance.
- B. Back paint components with bituminous paint 40 micron DFT, where contact is made with building finishes to prevent electrolysis.
- C. Shop assemble components and package complete with anchors and fittings.

PART 3 EXECUTION

3.1 EXAMINATION

- A. Examine surfaces to which work is to be anchored or connected and job conditions.
- B. Report unsatisfactory conditions likely to prevent or prejudice proper installation of work.
- C. Commence work after unsatisfactory conditions are corrected.

NORTH END SEWAGE TREATMENT PLANT (NEWPCC) HEADEND DISCHARGE WELL  
STRUCTURAL UPGRADES  
BID OPPORTUNITY NO. 366-2016

3.2 INSTALLATION

- A. Provide units to manufacturers installation instructions.
- B. Backpaint metal surfaces in contact with dissimilar metals, masonry or concrete with 1.0 mm thick bituminous coating. Install items where indicated, securely fastened to the structure. Install items square, plumb and free from distortion. Provide units complete with components required for anchoring to concrete, masonry, and metal supports.
- C. Alternating Tread Stair: Install alternating tread stair. Provide matching connecting members to adjacent construction. Secure stair to the structure.

END OF SECTION