

PART 1 - GENERAL

- 1.1 Description .1 This section specifies requirements for the design, supply, installation and testing of the cathodic protection system for the steel H Piles installed in the new work.
- 1.2 Measurement Procedures .1 Cathodic Protection System: design, supply, installation and testing of the system shall be measured as a lump sum.
- 1.3 References .1 National Association of Corrosion Engineers (NACE)
.1 NACE SP0169-2007, Control of External Corrosion on Underground or Submerged Metallic Piping Systems.
- 1.4 Submittals .1 Submittals to be in accordance with Section 01 33 00 Submittal Procedures.
- .2 Submit manufacturer's printed product literature, specifications and data sheets for cathodic protection and include product characteristics, performance criteria, physical size, finish and limitations. Design of the cathodic protection system shall be suitable for the existing site conditions and the structural details included in the Contract Documents.
- .3 Shop Drawings:
.1 Submit drawings stamped and signed by professional engineer registered or licensed in the Province of New Brunswick, Canada.
.2 Indicate locations of anodes, test positions, installation procedures, hardware and accessories.
- .4 Submit performance and inspection report to the Departmental Representative upon completion of the installation.
- 1.5 Delivery, Storage and Handling .1 Deliver, store and handle materials in accordance with manufacturer's written instructions. Damaged materials must be replaced prior to placement at no

extra cost to the Owner.

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| <u>1.6 Waste Management and Disposal</u> | .1 | Separate waste materials for reuse and/or recycling in accordance with Section 01 74 21 – Waste management and disposal. |
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PART 2 - PRODUCTS

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| <u>2.1 Materials</u> | .1 | Provide complete cathodic protection system to NACE SP0169 and comprising galvanic or sacrificial anodes. |
| | .2 | The operational design life to be 25 years. |

PART 3 - EXECUTION

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| <u>3.1 Installation</u> | .1 | Installation shall be in accordance with the procedures provided by the cathodic protection system designer and approved by the Departmental Representative. |
| | .2 | A certified NACE International Cathodic Protection Specialist or his authorized representative shall be engaged to test and report on the system performance upon completion of the installation. |
| <u>3.2 Cleaning</u> | .1 | Clean in accordance with Section 01 74 11 Cleaning.
.1 On completion and verification of performance of installation, remove Surplus materials, rubbish, tools and equipment. |