

Wharf Reconstruction**Chebogue (Town Point Hill) SCH****Yarmouth County****Project No. R.100885.001**

Miscellaneous Items

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PART 1 - GENERAL

- 1.1 Description of Work
- .1 This section specifies requirements for the following items:
 - .1 Ladders
 - .2 Mooring cleats
- 1.2 Reference Standards
- .1 ASTM A48/A48M-03(2016), Standard Specification for Gray Iron Castings.
 - .2 ASTM A307-14e1, Standard Specification for Carbon Steel Bolts, Studs, and Threaded Rod 60,000 PSI Tensile Strength.
 - .3 ASTM A123/A123M-17, Standard Specification for Zinc (Hot-Dip Galvanized) Coatings on Iron and Steel Products.
 - .4 CSA G40.20-13/G40.21-13 (R2018), General Requirements for Rolled or Welded Structural Quality Steel/Structural Quality Steel.
- 1.3 Related Work
- .1 Refer to other Specification Sections for related information.
 - .2 Refer to Section 01 33 00 for Shop Drawing/Submissions requirements.
- 1.4 Submissions
- .1 Shop Drawings:
 - .1 Clearly indicate the following items:
 - .1 General arrangements, dimensions, clearance locations and directions of assemblies as installed on structures.
 - .2 Locations, sizes and installation tolerances of anchor bolts, eye bolts and embedded parts.
 - .3 Types of materials used, finishes and core thickness.
 - .4 All other pertinent details and accessories.
 - .2 Product Data/Samples:
 - .1 Provide product data and manufacturers brochures for the mooring cleats.

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- .3 Test Results:
 - .1 Provide test results for the galvanized items.
 - .4 Submissions
 - .1 Provide submissions in accordance with **Section 01 33 00.**
- 1.5 Measurement for
Payment
- .1 Ladders, including timber, metal fabrications, rungs, and fasteners will be measured in accordance with Section 01 29 00.
 - .2 Grab bars will be measured in accordance with Section 01 29 00.
 - .3 Ladder holdfast will be measured in accordance with Section 01 29 00.
 - .4 Mooring cleats, including fastenings, will be measured in accordance with Section 01 29 00.

PART 2 - PRODUCTS

- 2.1 Materials
- .1 Timber: Any timber supplied by Contractor must conform to Section 06 05 73 Dimension Timber.
 - .2 Hardware and miscellaneous items must meet the following specifications:
 - .1 Machine bolts, lag bolts, drift bolts, anchor bolts, nuts, washers to ASTM A307.
 - .2 Steel plates, ladder rungs, holdfasts and miscellaneous steel: to CSA G40.21, Grade 300W.
 - .3 Mooring cleats: cast iron to ASTM A48, Type B1, with approximate weight of 41kg (90 lb.) each.
 - .4 Do not use items manufactured or fabricated from scrap steel of unknown chemical composition or physical properties.
 - .5 Hot dip galvanize bolts, anchor bolts, nuts, washers, steel plates, rungs, grab bars, holdfasts and any other miscellaneous steel to ASTM A123/A123M with minimum zinc coating of 600 g/m².
 - .6 The material requirements for installation of light poles are given in the electrical sections/drawings.
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PART 3 - EXECUTION

- 3.1 Ladders
- .1 Assemble ladder units and install completed units in locations shown on plan or as indicated by *Departmental Representative*.
 - .2 Countersink bolts on exterior face of ladder.
 - .3 Apply preservative to areas of unprotected wood exposed during course of work in accordance with Section 06 05 73.
- 3.2 Grab Bars
- .1 Install Grab Bars as shown on drawings.
- 3.3 Ladder Holdfast
- .1 Install Ladder Holdfast as shown on drawings.
- 3.4 Mooring Cleats
- .1 Install mooring cleats as shown on drawings and fasten to concrete deck and curb using anchor bolts as indicated. Allow for 25 mm of grout under base.
 - .2 Do not make alternations to any components without written permission of *Departmental Representative*.
- 3.5 Installation
General
- .1 Boreholes for drift bolts to be 1.5mm smaller in diameter than bolt and for full length of bolt. Boreholes for machine bolts to be same diameter as bolts. Boreholes for lag bolts to be same diameter as shank for unthreaded portion and 0.70 times the shank diameter for the threaded portion. Threaded portion of lag bolts will be installed using a wrench, not by driving.
 - .2 Contain all debris and leachates (films on water surface) within the area of the work by using containment facilities such as floating booms or screens.