

PART 1 - GENERAL

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| <u>1.1 DESCRIPTION</u> | .1 | This section specifies the requirements for supply and installation of mooring devices as follows: |
| | .1 | Supply and installation of Type "A" mooring cleats. |
| <u>1.2 RELATED WORK</u> | .1 | Section 02 41 16 - Sitework, Demolition, and Removal. |
| | .2 | Section 03 10 00 - Concrete Forming and Accessories. |
| | .3 | Section 03 20 00 - Concrete Reinforcing. |
| | .4 | Section 03 30 00 - Cast-in-Place Concrete. |
| <u>1.3 MEASUREMENT FOR PAYMENT</u> | .1 | <u>Mooring Cleats - Type "A"</u> : The supply and installation of Type "A" mooring cleats, including reinforced concrete block and pedestal, will be measured by the unit secured in place. Contractor to provide all concrete, reinforcing steel, anchor bolts, nuts, washers, welding, grout, fastenings, paint, plant, equipment, and labour. |

PART 2 - PRODUCTS

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| <u>2.1 MATERIALS</u> | .1 | Mooring Devices: |
| | .1 | Mooring Cleats Type "A": carbon cast steel, 225 kg weight as dimensioned on the attached drawing. |
| | .2 | Anchor Bolts and Nuts: to ASTM A307, galvanized. |
| | .3 | Non-Shrink Grout: pre-mixed compound of |

Harbour Development - Phase II

Mary's Harbour, Labrador

P/N: R.071733.001

Page 2

2014-09-29

non-metallic aggregate and plasticizing agents, capable of developing minimum compressive strength of 50 MPa at 28 days.

- .4 Galvanizing: to CSA G164, minimum zinc coating 610 g/m².
- .5 Welding: to CSA W59.
- .6 Sealer: to Section 07 92 10.
- .7 Concrete: to Section 03 30 00.
- .8 Concrete Reinforcement: to CSA G30.12M, Grade 400.
- .9 Primer: Alkyd undercoat, exterior oil ferrous metal primer, similar to Pittsburgh 6-208.
- .10 Paint: Alkyd/Oil Resin paint similar to Pittsburgh Paints "Brilliant Red (Safety Red)" Product ID 7-801. Paint to conform to CAN/CGSB-1.61-2004.

2.2 SHOP DRAWINGS

- .1 Submit fabricator's shop drawings on cleats in accordance with Section 01 33 00 - Submittal Procedures.

PART 3 - EXECUTION

3.1 INSTALLATION

- .1 Mooring Cleats - Type "A":
 - .1 Install concrete cleat block and pedestal for Type "A" mooring cleat as per the drawings.
 - .2 Install concrete cleat blocks monolithically with deck.
 - .3 Secure cleats with 25 mm diameter anchor bolts of lengths required complete with associated nuts and washers. After cleat installation is complete, bolt holes in cleats to be filled with approved waterproofing compound.
 - .4 For the cleat to be removed at the head of the existing Provincial ferry wharf, remove existing elevated pedestal flush with deck and install 50MPa non-shrink grout to

Harbour Development - Phase II

Mary's Harbour, Labrador

P/N: R.071733.001

Page 3

2014-09-29

roughened surface. Install new cleat, chemically anchored to the deck, as shown on the drawings.

3.2 GROUT

- .1 Set all mooring cleats at locations and elevations indicated or as directed by the Departmental Representative. Grout under base of cleat using a non-shrink, non-metallic type of grout after tightening of anchor bolts or positioning wedges. Grout must be approved by Departmental Representative. Fill anchor bolt holes with approved sealer. Ensure that temperatures of foundation, air, base and grout are within range specified by grout manufacturers.
- .2 Do not grout until approval given by Departmental Representative.