

Cleaning

Page 1

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| 1.1 <u>General</u> | .1 Conduct cleaning and disposal operations to comply with all applicable laws and ordinances. |
| | .2 Store volatile waste in covered metal containers, and remove from premises at end of each working day. |
| | .3 Prevent accumulation of waste which create hazardous conditions. |
| | .4 Provide adequate ventilation during use of volatile or noxious substances. |
| 1.2 <u>Cleaning During Construction</u> | .1 Maintain the work, at least on a daily basis free from accumulations of waste material and debris. |
| | .2 Provide on-site containers for collection of waste materials and debris. |
| | .3 Remove all waste and debris from site. |
| 1.3 <u>Final Cleaning</u> | .1 In preparation for acceptance of the project on an interim or final certificate of completion perform final cleaning. |
| | .2 Remove grease, dust, dirt, stains, and other foreign materials from finished surface. |
| | .3 Remove all surplus materials, debris, tools and equipment. |

-----END of SECTION-----

PART 1 - GENERAL

- 1.1 Reference Standards
- .1 ASTM A307-14, Specification for Carbon Steel Bolts and Studs, 60,000 psi tensile.
 - .2 CSA G164, Hot Dip Galvanizing of Irregularly Shaped Articles
 - .3 ASTM B111-1974 (or latest edition), Wire Nails, Spikes and Staples.
 - .4 CAN/CSA-G40.21-13, Structural Quality Steels.
 - .5 CAN/CGSB-1.181-1999 (or latest edition), Ready-Mixed Organic Zinc-Rich Coating.
 - .6 CAN/CSA-S16-14, Design of Steel Structures.
 - .7 CSA W59-13, Welded Steel Construction (Metal Arc Welding).
- 1.2 Shop Drawings
- .1 Submit shop drawings for all items not detailed on the Plans in accordance with Section 01 33 00.
 - .2 Contractor is responsible to review project plans for accuracy of the detail dimensions, general fit-up of parts to be assembled, adequacy of proposed methods and procedures or for errors or defects contained in the details.
 - .3 Indicate materials, core thicknesses, finishes, connections, joint, method of anchorage, number of anchors, supports, reinforcement, details and accessories.
 - .4 Contractor's responsibility to confirm on site the exact locations and construction of related work to which work under this section connects to, or is supported on.

Wharf Repairs

Bay St. Lawrence, Victoria County, NS

Project No. R.117914.001

Metals and Metal Fabrication**Page 2**

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| 1.4 <u>Quality Assurance</u> | .1 Test Reports: Certified test reports showing compliance with specified performance characteristics and physical properties. |
| | .2 Certificates: Product certificates signed by manufacturer certifying materials comply with specified performance characteristics and criteria and physical requirements. |
| 1.3 <u>Measurement for Payment</u> | .1 This item shall not be measured separately but shall be considered incidental to the Work in accordance with Section 01 29 00 - Project Particulars and Measurement |

PART 2 - PRODUCTS

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| 2.1 <u>Materials</u> | .1 Steel Sections: to CAN3-G40.21, Grade 350W. |
| | .2 Steel plates and angles: to CAN#-G40.21, Grade 300W |
| | .3 Welding materials: to CSA W59 |
| | .4 Bolts and anchor bolts: to ASTM A307 |
| | .5 All steel will be hot-dipped galvanized unless otherwise indicated |
| | .6 Galvanizing: hot dipped galvanizing with zinc coating 600 g/m ² to CSA G164 |
| | .7 Zinc primer: Zinc rich, ready mix to CGSB 1-GP-181 |
| | .8 Do not use items manufactured or fabricated from scrap steel of unknown chemical composition or physical properties. |
| 2.2 <u>Fabrication</u> | .1 Build work square, true, straight and accurate to required size, with joints closely fitted and properly secured. |
| | .2 Fabricate items from steel unless otherwise noted. |
| | .3 Where possible, fit and shop assemble work, ready for installation. |

Wharf Repairs

Bay St. Lawrence, Victoria County, NS

Project No. R.117914.001

Metals and Metal Fabrication

Page 3

- 2.3 Miscellaneous Metal Work Items
- .4 Ensure exposed welds are continuous for length. File or grind exposed welds smooth and flush.
 - .1 Miscellaneous anchors, bolts and inserts:
 - .1 Where size, spacing and the like are not indicated, provide as necessary for the purpose.
 - .2 Galvanize all miscellaneous anchors, bolts and inserts.
 - .2 Miscellaneous Steel:
 - .1 Provide miscellaneous steel as required for guide units and the like to the shape, size and details required.
 - .2 Galvanize all miscellaneous steel.

PART 3 - EXECUTION

- 3.1 Erection
- .1 Install metalwork square, plumb, straight and true, accurately fitted with tight joints and intersections.
 - .2 Make field connections with bolts to CSA S16.1, or weld.
 - .3 Touch-up bolts and scratched surfaces after completion of erection with zinc primer.

-----END of SECTION-----