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Wharf Reconstruction
Musgrave Harbour, NL

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PART 1 - GENERAL

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| <u>1.1 RELATED
SECTIONS</u> | .1 | Section 01 33 00 - Submittal Procedures. |
| | .2 | Section 01 74 21 - Construction/Demolition
Waste Management and Disposal. |
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| <u>1.2 REFERENCES</u> | .1 | American Society for Testing and Materials
International, (ASTM)
.1 ASTM A 53/A53M-10, Standard
Specification for Pipe, Steel, Black and
Hot-Dipped, Zinc-Coated Welded and
Seamless.
.2 ASTM A 269-10, Standard Specification
for Seamless and Welded Austenitic
Stainless Steel Tubing for General
Service.
.3 ASTM A307-10, Standard Specification
for Carbon Steel Bolts and Studs, 60,000
PSI Tensile Strength.
.4 ASTM A123/A123M-09, Standard
Specification for Zinc (Hot Dip
Galvanized) Coatings on Iron and Steel
Products. |
| | .2 | Canadian General Standards Board (CGSB)
.1 CAN/CGSB-1.40-97, Anti-corrosive
Structural Steel Alkyd Primer.
.2 CAN/CGSB-1.181-99, Ready-Mixed,
Organic Zinc-Rich Coating. |
| | .3 | Canadian Standards Association (CSA
International)
.1 CSA-G40.20/G40.21-04 (R2009), General
Requirements for Rolled or Welded
Structural Quality Steel/Structural
Quality Steel.
.2 CAN/CSA-S16.1-09, Design of Steel
Structures.
.3 CSA W48-06, Filler Metals and Allied
Materials for Metal Arc Welding (Developed |

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in co-operation with the Canadian Welding Bureau).

.4 CSA W59-03 (R2008), Welded Steel Construction (Metal Arc Welding).

.4 The Environmental Choice Program

.1 CCD-047a-98, Paints, Surface Coatings.

.2 CCD-048-98, Surface Coatings - Recycled Water-borne.

1.3 SUBMITTALS

.1 Product Data:

.1 Submit manufacturer's printed product literature, specifications and data sheet in accordance with Section 01 33 00 - Submittal Procedures.

.2 Submit two copies of WHMIS MSDS - Material Safety Data Sheets in accordance with Section 01 33 00 - Submittal Procedures. Indicate VOC's:

.1 For finishes, coatings, primers and paints.

.2 Shop Drawings

.1 Submit shop drawings in accordance with Section 01 33 00 - Submittal Procedures.

.2 Indicate materials, core thicknesses, finishes, connections, joints, method of anchorage, number of anchors, supports, reinforcement, details, and accessories.

1.4 QUALITY ASSURANCE

.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

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requirements.

1.5 DELIVERY,
STORAGE, AND
HANDLING

- .1 Packing, Shipping, Handling and Unloading:
- .2 Deliver, store, handle and protect materials in accordance with Section 01 61 00 - Common Product Requirements.
- .3 Storage and Protection:
 - .1 Cover exposed stainless steel surfaces with pressure sensitive heavy protection paper or apply strippable plastic coating, before shipping to job site.
 - .2 Leave protective covering in place until final cleaning of building. Provide instructions for removal of protective covering.

PART 2 - PRODUCTS

2.1 MATERIALS

- .1 Steel sections and plates: to CAN/CSA-G40.20/G40.21, Grade 300W.
- .2 Welding materials: to CSA W59.
- .3 Welding electrodes: to CSA W48 Series.
- .4 Bolts and anchor bolts: to ASTM A 307.

2.2 FABRICATION

- .1 Fabricate work square, true, straight and accurate to required size, with joints closely fitted and properly secured.
- .2 Use self-tapping shake-proof flat headed screws on items requiring assembly by screws or as indicated.
- .3 Where possible, fit and shop assemble work, ready for erection.

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- .4 Ensure exposed welds are continuous for length of each joint. File or grind exposed welds smooth and flush.

2.3 FINISHES

- .1 Galvanizing: hot dipped galvanizing with zinc coating to ASTM-A123/A123M.
- .2 Shop coat primer: to CAN/CGSB-1.40.
- .3 Zinc primer: zinc rich, ready mix to CAN/CGSB-1.181.

2.4 SHOP PAINTING

- .1 Apply one shop coat of primer to metal items, with exception of galvanized or concrete encased items.
- .2 Use primer unadulterated, as prepared by manufacturer. Paint on dry surfaces, free from rust, scale, grease. Do not paint when temperature is lower than 7 degrees C.
- .3 Clean surfaces to be field welded; do not paint.

PART 3 - EXECUTION

3.1 ERECTION

- .1 Do welding work in accordance with CSA W59 unless specified otherwise.
- .2 Erect metalwork square, plumb, straight, and true, accurately fitted, with tight joints and intersections.
- .3 Provide suitable means of anchorage acceptable to Departmental Representative such as dowels, anchor clips, bar anchors, expansion bolts and shields, and toggles.
- .4 Exposed fastening devices to match finish

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and be compatible with material through which they pass.

- .5 Make field connections with bolts to CAN/CSA-S16.1, or weld.
- .6 Touch-up rivets, field welds, bolts and burnt or scratched surfaces after completion of erection with primer.
- .7 Touch-up galvanized surfaces with zinc rich primer where burned by field welding.

3.2 CLEANING

- .1 Perform cleaning after installation to remove construction and accumulated environmental dirt.
- .2 Upon completion of installation, remove surplus materials, rubbish, tools and equipment barriers.

3.3 STEEL ANGLE

- .1 Supply and install the steel angle wheelguard as noted on the drawings. The steel angle wheelguard will not be measured separately for payment and is to be included in the lump sum arrangement.