

PART 1 – GENERAL

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| 1.1 | <u>Reference Standards</u> | <ul style="list-style-type: none">.1 ASTM A123/A123M-09, Specification for Zinc (Hot-Dip Galvanized) Coatings on Iron and Steel Products..2 ASTM A307-2010, Specification for Carbon Steel Bolts and Studs, 60,000 psi Tensile..3 CAN/CSA-G40.21-2004(R2009), Structural Quality Steels..4 CAN/CGSB-1.181-1999, Ready-Mixed Organic Zinc-Rich Coating..5 CAN/CSA-S16.1-2009, Limit States Design of Steel Structures..6 CSA W59-1991(R2008), Welded Steel Construction (Metal Arc Welding). |
| 1.3 | <u>Related Work</u> | <ul style="list-style-type: none">.1 Refer to other Specification Sections for related information..2 Refer to Section 01 33 00 for Shop Drawings/ Submissions requirements. |
| 1.4 | <u>Shop Drawings</u> | <ul style="list-style-type: none">.1 Shop Drawings:<ul style="list-style-type: none">.1 Clearly indicate the following items:<ul style="list-style-type: none">.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 Test Results:<ul style="list-style-type: none">.1 Provide test results for the galvanized items..3 Submissions<ul style="list-style-type: none">.1 Provide submissions in accordance with Section 01 33 00. |

PART 2 - PRODUCTS

2.1 Materials

- .1 Steel Sections: to CAN-G40.21, Grade 350W.
- .2 Steel rod, plate and angles: to CAN-G40.21, Grade 300W.
- .3 Welding materials: to CSA W59.
- .4 Bolts and anchor bolts: to ASTM A307.
- .5 Galvanizing: hot dipped galvanizing with zinc coating 600 g/m² to ASTM A123/A123M.
- .6 Zinc primer: Zinc rich, ready mix to CGSB 1-GP-181.
- .7 Do not use items manufactured or fabricated from scrap steel of unknown chemical composition or physical properties.
- .8 For adhesive anchors see Cast-in-Place concrete, Section 03 30 00.

2.2 Fabrication

- .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.
- .4 Ensure exposed welds are continuous for length.

PART 3 - EXECUTION

3.1 Miscellaneous

- .1 Fabricate and install shrouds, ice shield, expansion joint and curb quarter round. All items are to be galvanized with the exception of the ice shield.
- .2 Shrouds to be galvanized and painted.