

PART 1 - GENERAL

- 1.1 Reference Standards
- .1 ASTM A123/A123M-15, Specification for Zinc (Hot-Dip Galvanized) Coatings on Iron and Steel Products.
 - .2 ASTM A307-14, Specification for Carbon Steel Bolts and Studs, 60,000 psi Tensile.
 - .3 CAN/CSA-G40.21-13, Structural Quality Steels.
 - .4 CAN/CGSB-1.181-1999, Ready-Mixed Organic Zinc-Rich Coating.
 - .5 CAN/CSA-S16.1-14, Limit States Design of Steel Structures.
 - .6 CSA W59-13, Welded Steel Construction (Metal Arc Welding).
- 1.2 Related Work
- .1 Refer to other Specification Sections for related information.
 - .2 Refer to Section 01 33 00 for Shop Drawings/Submissions requirements.
- 1.3 Shop Drawings
- .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 Test Results:
 - .1 Provide test results for the galvanized items.
 - .3 Submissions
 - .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.
- 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 Confirm exposed welds are continuous for length.
- 2.3 Miscellaneous Metal Work Items
- .1 Miscellaneous anchors, bolts and inserts:
 - .1 Where size, spacing and the like are not indicated, provide as necessary for the purpose.
 - .2 Hot-dip galvanize all miscellaneous anchors, bolts and inserts.
 - .2 Miscellaneous Steel:
 - .1 Provide miscellaneous steel as required to the shape, size and details required.
 - .2 Hot-dip 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