

PART 1 - GENERAL

- 1.1 Reference Standards .1 American Society for Testing and Materials, (ASTM)
- .1 ASTM F593-13a, Standard Specification for Stainless Steel Bolts, Hex Cap Screws, and Studs.
- .2 Canadian General Standards Board (CGSB)
- .1 CAN/CGSB-1.181-99 (or latest edition), Ready-Mixed Organic Zinc-Rich Coating.
- .3 Canadian Standards Association (CSA)
- .1 CAN/CSA-G40.20-13/G40.21-13 (or latest edition), General Requirements for Rolled or Welded Structural Quality Steels.
- .2 CAN/CSA-G164-M92 (or latest edition), Hot Dip Galvanizing of Irregularly Shaped Articles.
- .3 CSA S16, Design of Steel Structures.
- .4 CSA W59-13 (or latest edition), Welded Steel Construction (Metal Arc Welding).
- 1.2 Shop Drawings .1 Submit shop drawings in accordance with **Section 01 33 00**.
- .2 Indicate materials, core thicknesses, finishes, connections, weldments, joint, method of anchorage, number of anchors, supports, reinforcement, details and accessories.
- 1.3 Measurement for Payment .1 Measurement for payment will be in accordance with **Section 01 29 00**.

PART 2 - PRODUCTS

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- 2.1 Materials .1 All grating, grating support, trash rack guides, sill plates, base plates, connection members, and miscellaneous metal materials to be hot dip galvanized after fabrication, unless noted otherwise.
- .2 Steel plate, angles and HSS Sections: to CAN3-G40.21, Grade 350W, galvanized.
- .3 Welding materials: to CSA W59.
- .4 Concrete anchors: Type 316L threaded rod complete with S/S washers and nuts. Placed in dry hammer drilled hole, cleaned and set in proprietary epoxy resin.
- .5 Galvanizing: hot dipped galvanizing with zinc coating 600 g/m² to CSA G164.
- .6 Zinc primer: Zinc rich, ready mix to CGSB 1-GP-181.
- 2.2 Grating .1 Bar Grating, serrated surface bar grate, 38 x 4.8 bearing bar spaced at 50 mm centers and twisted cross rods at 102 mm spacing, hot dip galvanized, finished angle edges to fit the dimensions shown.
- 2.3 HSS Crossbeams .1 HSS Crossbeams, 305 x 305 x 8, hot dip galvanized, complete with deck support angles, and base plates, installed as indicated on drawings.
- 2.4 Fabrication .1 Do not commence fabrication until shop drawings have been reviewed.
- .2 Fabricate work square, true, straight and accurate to required size, with joints closely fitted and properly secured.
- .3 Fabricate items from steel unless otherwise noted.

- .4 Where possible, fit and shop assemble work, ready for installation.
 - .5 Ensure exposed welds are continuous for length.
- 2.5 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 All concrete anchors to adhesive type, stainless steel complete with stainless steel nuts and washers.
 - .3 Miscellaneous Steel:
 - .1 Provide miscellaneous steel as required for stop log guide units and the like to the shape, size and details required.
 - .2 Galvanize all miscellaneous steel items.

PART 3 - EXECUTION

- 3.1 Erection
- .1 Install metalwork square, plumb, straight and true, accurately fitted, with tight joints and intersections.
 - .2 Field welding or cutting of galvanized surfaces is not permitted.
 - .3 Touch-up bolts and scratched surfaces after completion of erection with two coats of spray-on cold galvanizing.