

1.0 GENERAL

1.1 Related Work

1.1.1 Section 09900 – Painting and Finishing

1.2 Reference Standards

1.2.1 Do welding work in accordance with CSA W59-1977 unless specified otherwise.

1.3 Shop Drawings

1.3.1 Submit shop drawings in accordance with Section 01300 - Shop Drawings, Product Data and Samples.

1.3.2 Clearly indicate materials, core thickness, finishes, connections, joints, method of anchorage, number of anchors, supports, reinforcement, details and accessories.

2.0 PRODUCTS

2.1 Materials

2.1.1 Steel sections and plates: to CSA G40.21-M1978, Type 300 W.

2.1.2 Steel pipe: to CSA B63-1966 (R1971) standard weight.

2.1.3 Welding materials: to CSA W59-1977.

2.1.4 Bolts and anchor bolts: to ASTM A307-76b.

2.1.5 Shop coat primer: to CGSB 1 - GP - 40 M.

2.2 Fabrication

2.2.1 Build work square, true, straight and accurate to required size, with joints closely fitted and properly secured.

2.2.2 Fabricate items from steel unless otherwise noted.

2.2.3 Use self-tapping shake-proof countersunk flat headed screws on items requiring assembly by screws or as indicated.

2.2.4 Where possible, fit and shop assemble work, ready for erection.

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

2.3 Shop Painting

2.3.1 Apply one shop coat of primer to metal items, with exception of stainless steel, aluminum, galvanized or concrete encased items.

- 2.3.2 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°C.
- 2.3.3 Clean surfaces to be field welded; do not paint.

3.0 EXECUTION

3.1 Erection

- 3.1.1 Erect metalwork square, plumb, straight and true, accurately fitted, with tight joints and intersections.
- 3.1.2 Provide suitable means of anchorage acceptable to the Consultant such as dowels, anchor clips, bar anchors, expansion bolts and shields, toggles.
- 3.1.3 Make field connections with high tensile bolts, or weld as per CSA S16-1969 and CSA S16S1-1975.
- 3.1.4 Hand items over for casting into concrete or building into masonry to appropriate trades together with setting templates.
- 3.1.5 Touch-up rivets, field welds, bolts and burnt or scratched surfaces after completion of erection.

3.2 Pipe Bollards

- 3.2.1 150 mm diameter standard steel pipe 1800 mm long.
- 3.2.2 Prime and paint blue as per Formula 4, Section 09900 - Painting and Finishing.

3.3 Colours

- 3.3.1 Prime and paint bollards as per Sunspot Q5-64U Formula 4, Section 09900 - Painting and Finishing.