PART 1 - GENERAL

1.1 Reference Standards

.1 CSA-S136 (latest edition), Cold Formed Steel Structural Members.

.2 CAN/CSA S16.1 (latest edition), Limit States Design of Steel Structures.

.3 CSA W47.1 (latest edition) Certification of Companies for Fusion Welding of Steel Structures.

.4 CSA W59 (latest edition) Welded Steel Construction (Metal Arc Welding).

.5 Canadian Sheet Steel Building Institute Standard S3 - Criteria for the Design of Composite Slabs.

.6 Canadian Sheet Steel Building Institute Standard 12M - Standard for Composite Steel Deck.

.7 Canadian Sheet Steel Building Institute Standard S2 - Criteria for the Testing of Composite Slabs.

1.2 Shop Drawings

.1 Submit shop drawings in accordance with **Section 01 33 00**.

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

1.3 Measurement for Payment

.1 Q-deck will not be measured separately but considered incidental to the cost of the reinforced concrete.

PART 2 - PRODUCTS

2.1 Materials

.1 16 gauge steel Q-deck CANAM P2436 or equivalent.

PART 3 - EXECUTION

3.1 General

.1 Examine area over which deck system will be installed for conformity with the drawings. Report all discrepancies to ***Departmental Representative*** before beginning work on deck system.

.2 Protect steel deck during construction in accordance with CSSBI standards.

3.2 Installation

.1 Install steel deck in accordance with CSA S136 and CSSBI 10M.

.2 Install deck free of dirt, scale, foreign matter, dents or deformation.

.3 Place deck in final position before securing to supporting members, ensuring adequate bearing and end laps.

.4 Clinch side laps at 600 mm centers to produce a positive connection.

PART 1 - GENERAL

1.1 Reference Standards

.1 CAN/CSA-G40.21-M92 (or latest edition), Structural Quality Steels.

.2 CSA W59-M1989 (or latest edition), Welded Steel Construction (Metal Arc Welding).

.3 ASTM A307-94 (or latest edition), Specification for Carbon Steel Bolts and Studs, 60,000 psi Tensile.

.4 CAN/CSA-G164-M92 (or latest edition) - Hot Dip Galvanizing of Irregularly Shaped Articles.

.5 CAN/CGSB-1.181-92 (or latest edition), Ready-Mixed Organic Zinc-Rich Coating.

.5 CAN/CSA-S16.1-94 (or latest edition), Limit States Design of Steel Structures.

1.2 Shop Drawings

.1 Submit shop drawings in accordance with **Section 01 33 00**.

.2 Indicate materials, core thicknesses, finishes, connections, 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

2.1 Materials

.1 Steel Sections: to CAN3-G40.21, Grade 350W.

.2 Steel plate and angles: to CAN3-G40.21, Grade 350W.

.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 CSA G164.

.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 Ensure 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 Galvanize all miscellaneous anchors, bolts and inserts.

.2 Miscellaneous Steel:

.1 Provide miscellaneous steel as required for 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 Make field connections with bolts to CAN/CSA-S16.1, or weld.

.3 Touch-up bolts and scratched surfaces after completion of erection with zinc primer.