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1. GENERAL

1.1 Section Includes

.1 Structural steel work in this section includes structural sections indicated on drawings.

1.2 References

- .1 Canadian Standards Association (CSA International)
 - .1 CAN/CSA G40.20/G40.21 General Requirements for Rolled or Welded Structural Quality Steel/Structural Quality Steel.
 - .2 CAN/CSA G164, Hot Dip Galvanizing of Irregularly Shaped Articles.
 - .3 CAN/CSA S16, Limit States Design of Steel Structures.
 - .4 CSA W47.1, Certification of Companies for Fusion Welding of Steel Structures.
 - .5 CSA W48, Filler Metals and Allied Materials for Metal Arc Welding.
 - .6 CSA W55.3, Resistance Welding Qualification Code for Fabricators of Structural Members Used in Buildings.
 - .7 CSA W59, Welded Steel Construction (Metal Arc Welding).
- .2 American Society for Testing and Materials International, (ASTM)
 - .1 ASTM A36/A36M, Specification for Structural Steel.
 - .2 ASTM A193/A193M, Specification for Alloy Steel and Stainless Steel Bolting Materials for High Temperature Service.
 - .3 ASTM A307, Specification for Carbon Steel Bolts and Studs, 60,000 psi Tensile Strength.
 - .4 ASTM A325, Specification for Structural Bolts, Steel, Heat Treated, 120/105 ksi Minimum Tensile Strength.
 - .5 ASTM A325M, Specification for High Strength Bolts for Structural Steel Joints.
 - .6 ASTM A490M, Specification for High Strength Steel Bolts, Classes 10.9 and 10.9.3, for Structural Steel Joints (Metric).
- .3 Canadian General Standards Board (CGSB)
 - .1 CAN/CGSB 85.10 [99], Protective Coatings for Metals.
- .4 Canadian Institute of Steel Construction (CISC)/Canadian Paint Manufacturer's Association (CPMA).
 - .1 CISC/CPMA 1 73b, Quick Drying, One Coat Paint for Use on Structural Steel.
 - .2 CISC/CPMA 2 75, Quick Drying, Primer for use on Structural Steel.
- .5 Master Painters Institute
 - .1 MPI INT 5.1, Structural Steel and Metal Fabrications.
 - .2 MPI EXT 5.1, Structural Steel and Metal Fabrications.
 - The Society for Protective Coatings (SSPC)
 - .1 SSPC SP 6/NACE No. 3, Commercial Blast Cleaning.

1.3 Measurement Procedures

.1 No measurement will be made for work under this section.

1.4 SHOP DRAWINGS

.6

- .1 Submit shop drawings including fabrication and erection documents and materials list in accordance with Section 01 33 00 Submittal Procedures.
- .2 Erection drawings: indicate details and information necessary for assembly and erection purposes including:
 - .1 Description of methods.
 - .2 Sequence of erection.

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- .3 Type of equipment used in erection.
- .4 Temporary bracings.

2. PRODUCTS

2.1 Materials

- .1 Structural steel: to CAN/CSA G40.20/G40.21 Grade 300W.
- .2 Bolts, nuts and washers: to ASTM A307.
- .3 Welding materials: to CSA W59 and certified by Canadian Welding Bureau.
- .4 Shop paint primer: to CISC/CPMA.
- .5 Hot dip galvanizing: galvanize steel to CAN/CSA G164, minimum zinc coating of 600 g/m2.
- .6 Shear studs: to CSA W59, Appendix H.

2.2 FABRICATION

- .1 Fabricate structural steel in accordance with CAN/CSA S16 and in accordance with reviewed shop drawings.
- .2 Install Nelson studs in accordance with CSA W59.
- .3 Continuously seal members by continuous welds where indicated. Grind smooth.

3. EXECUTION

3.1 GENERAL

- .1 Structural steel work: in accordance with CAN/CSA S16.
- .2 Welding: in accordance with CSA W59.
- .3 Companies to be certified under Division 1 or 2.1 of CSA W47.1 for fusion welding of steel structures and/or CSA W55.3 for resistance welding of structural components.

3.2 CONNECTION TO EXISTING WORK

.1 Verify dimensions and condition of existing work, report discrepancies and potential problem areas to Contract Administrator for direction before commencing fabrication.

3.3 MARKING

.1 Mark materials in accordance with CAN/CSA G40.20/G40.21. Do not use die stamping. If steel is to be left in unpainted condition, place marking at locations not visible from exterior after erection.

END OF SECTION