

CONCRETE REINFORCING

1. PART 1 – GENERAL

1.1 References

- .1 Canadian Standards Association (CSA).
 - .1 CSA-A23.1 Concrete Materials and Methods of Concrete Construction.
 - .2 CAN/CSA-A23.3, Design of Concrete Structures for Buildings.
 - .3 CSA-G30.18, Carbon Steel Bars for Concrete Reinforcement.
 - .4 CSA-G40.21, Structural Quality Steel.

1.2 Shop Drawings

- .1 Submit shop drawings including placing of reinforcement in accordance with Section 01 33 00 - Submittal Procedures.
- .2 Indicate on shop drawings, bar bending details, lists, quantities of reinforcement, sizes, spacings, locations of reinforcement and mechanical splices if approved by Contract Administrator, with identifying code marks to permit correct placement without reference to structural drawings. Indicate sizes, spacings and locations of chairs, spacers and hangers. Prepare reinforcement drawings in accordance with Reinforcing Steel Manual of Standard Practice (RSIC) - by Reinforcing Steel Institute of Canada.
- .3 Detail lap lengths and bar development lengths to RSIC, unless otherwise indicated. Provide class B tension lap splices unless otherwise indicated.

2. PART 2 – PRODUCTS

2.1 Materials

- .1 Reinforcing steel: billet steel, grade 400, deformed bars to CSA-G30.18.
- .2 Chairs, bolsters, bar supports, spacers: to CSA-A23.1.

2.2 Fabrication

- .1 Fabricate reinforcing steel in accordance with CSA-A23.1, and Reinforcing Steel Manual of Standard Practice by the Reinforcing Steel Institute of Canada.
- .2 Ship bundles of bar reinforcement clearly identified in accordance with bar bending details and lists.

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2.3 Source Quality Control

- .1 Upon request, provide Contract Administrator with certified copy of mill test report of reinforcing steel, showing physical and chemical analysis, minimum four (4) weeks prior to commencing reinforcing work.

3. PART 3 – EXECUTION

3.1 Field Bending

- .1 Do not field bend or field weld reinforcement except where indicated or authorized by Contract Administrator.

3.2 Placing Reinforcement

- .1 Place reinforcing steel as indicated on approved placing drawings and in accordance with CSA-A23.1.
- .2 Provide seventy two (72) hours notice prior to placing concrete, obtain Contract Administrator's review of reinforcing material and placement.
- .3 Ensure cover to reinforcement is maintained during concrete casting.

END OF SECTION