

The Executed Agreement including General Conditions and Supplementary Conditions, Division 01, applicable drawings and amendments are part of and are to be read in conjunction with this Section

PART 1 - GENERAL

1.1 RELATED WORK

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| .1 | Concrete Formwork | Section 03 10 00 |
| .2 | Cast-In-Place Concrete | Section 03 30 00 |

1.2 REFERENCES

- .1 CSA-A23.1, Concrete Materials and Methods of Concrete Construction.
- .2 CSA-A23.2, Methods of Test and Standard Practices for Concrete.
- .3 CSA-A23.3, Design of Concrete Structures
- .4 CSA-G30.18, Billet-Steel Bars for Concrete Reinforcement.
- .5 CSA-G40.21, Structural Quality Steels.
- .6 CSA-G164, Hot Dip Galvanizing of Irregularly Shaped Articles
- .7 CSA W186, Welding of Reinforcing Bars in Reinforced Concrete Construction.
- .8 ASTM A-185, Standard Specification for Steel Welded Wire Reinforcement, Plain for Concrete
- .9 ASTM A-775, Standard Specification for Epoxy Coated Reinforcing Steel Bars
- .10 RSIC, Reinforcing Steel Manual of Standard Practice

1.3 SHOP DRAWINGS

- .1 Submit shop drawings including placing of reinforcement in accordance with Section 01 33 00.
 - .2 Indicate on shop drawings, bar bending details, lists, quantities of reinforcement, sizes, spacings, locations of reinforcement and mechanical splices if approved by Consultant, 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 - by Reinforcing Steel Institute of Canada.
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- .3 Detail lap lengths and bar development lengths to CSA A23.3, unless otherwise indicated. Provide Type B tension lap splices to CSA A23.3 unless otherwise indicated.

PART 2 - PRODUCTS

2.1 MATERIALS

- .1 Substitute different size bars only if permitted in writing by Consultant.
- .2 Reinforcing steel: billet steel, grade 400, deformed bars to CSA-G30.18, unless indicated otherwise.
- .3 Reinforcing steel: weldable low alloy steel deformed bars to CAN/CSA-G30.18.
- .4 Welded steel wire fabric: to ASTM A185. Provide in flat sheets only.
- .5 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 unless indicated otherwise.
- .2 Obtain Consultant's approval for locations of reinforcement splices other than those shown on placing drawings.
- .3 Upon approval of Consultant, weld reinforcement in accordance with CSA W186.
- .4 Ship bundles of bar reinforcement, clearly identified in accordance with bar bending details and lists.

2.3 SOURCE QUALITY CONTROL

- .1 Upon request, provide Consultant with certified copy of mill test report of reinforcing steel, showing physical and chemical analysis, prior to commencing reinforcing work.
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PART 3 - EXECUTION

3.1 FIELD BENDING

- .1 Do not field bend or field weld reinforcement except where indicated or authorized by Consultant.
- .2 When field bending is authorized, bend without heat, applying a slow and steady pressure.
- .3 Replace bars which develop cracks or splits.

3.2 PLACING REINFORCEMENT

- .1 Place reinforcing steel as indicated on reviewed placing drawings and in accordance with CSA-A23.1.
- .2 Use plain round bars as slip dowels in concrete. Paint portion of dowel intended to move within hardened concrete with one coat of asphalt paint. When paint is dry, apply a thick even film of mineral lubricating grease.
- .3 Prior to placing concrete, obtain Consultant's approval of reinforcing material and placement. Give consultant 24 hours notice.
- .4 Use chairs to support all reinforcing steel to ensure proper positioning and that cover to reinforcement is maintained during concrete pour. Chairs must also be used to support reinforcing steel in slabs on grade and footings.

END OF SECTION
