



City of Estevan

Construction Specifications

SECTION 1052
CONCRETE REINFORCEMENT

1.0 GENERAL

This section governs the requirements for steel reinforcement for cast in place reinforced concrete used in the construction of reinforced concrete structures, flatwork, and elements.

2.0 INSPECTION AND TESTING

Reinforcing steel shall be inspected and approved by the Engineering Services Division prior to pouring concrete.

Upon request supply the Engineering Services Division with copy of mill test report of reinforcing steel showing physical and chemical analysis and source of supply before pouring concrete.

3.0 MATERIALS

3.1 Reinforcing Steel

Reinforcing steel deformed bars, shall conform to CAN/CSA G 30.12 and deformations to CAN/CSA G 30.6

3.2 Welded Wire Fabric

Welded wire fabric shall conform to CAN/CSA G 30.15

3.3 Chairs, bolsters, bar supports, spacers shall conform to CAN/CSA A 23.1

4.0 STORAGE

Store reinforcement on racks or skids above ground protected from rust and dirt

5.0 INSTALLATION

5.1 Hooks and Bends

Hooks and Bends shall conform to the recommended sizes in ACI 315 and ACI 315R. Bars shall be bent cold. Partially embedded bars and dowels shall not be bent unless authorized by the Engineering Services Division.

5.2 Cleaning

Ensure that bars are free of loose rust, mud, oil, or other bond reducing materials.

5.3 Prior to placing concrete obtain Engineering Services Division's approval of reinforcing material and placement.

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5.4 Placement

Place bars as indicated on the drawings and in conformance with CAN/CSA-A23-1. Place sufficient ties, chairs, spacers for adequate support and to secure reinforcement against displacement.

5.5 Place corner bars at wall intersections, diagonal bars across each corner around openings, around heads, sills, jambs, slots, holes, and reentrant corners, as required by the Engineering Services Division.

5.6 Provide dowels as required by the Engineering Services Division to tie sidewalks to existing curbs or grade beams when poured separately.

6.0 MEASUREMENTS AND PAYMENT

6.1 The work items in this section shall be deemed incidental to the supply and installation of cast in place reinforced Portland Cement Concrete.