

SECTION 537

SUPPLY AND INSTALLATION OF TRAFFIC POLES

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537.01 SCOPE

The work covered by this specification shall cover the supply and installation of traffic and light poles, anchor bolts, mounting arms and associated hardware.

537.02 MATERIALS

537.02.01 General

Steel poles shall be designed to meet the latest version of CSA-S6 Canadian Highway Bridge Design Code Standards. The traffic pole shall have a design life of 75 years.

Wind load should be calculated using the hourly mean wind pressure for a 50 year return period for the specific location, or 800 pascals, whichever is greater. A gust factor of 2.5 shall be used.

Ice loading shall be calculated based upon nominal ice thickness for the extreme icing zone, or 66 millimetres, whichever is greater.

The design shall be prepared by a Professional Engineer who shall submit shop drawings and installation procedures to the Department at least two weeks prior to start of construction. Shop drawings are required to detail the effective projected area and reactions to be transferred to the foundation from the base of the pole to the foundation

and shall bear the stamp and signature of a Professional Engineer licensed to practice in the Province of Newfoundland and Labrador.

537.02.02 Traffic Pole

Unless otherwise specified, traffic poles shall be hot dipped galvanized steel having offsets and mounting heights as specified in the contract documents.

Traffic poles shall be galvanized in accordance with CSA G164M/ ASTM A123.

537.02.03 Traffic Fixtures and Signals

Traffic fixtures and signals shall be as specified in the contract documents.

537.03 CONSTRUCTION

537.03.01 Bases and Foundations

The Contractor shall supply under separate pay items concrete bases and foundations for the installations of poles, however, the supplying and placing of anchor bolts for these bases and foundations shall be considered included in the price bid for supplying and installing poles.

Where poles are of the direct bury type then excavation to the required grade and backfilling shall be included in the price bid for supply and installation of poles.

537.04 MEASUREMENT OF PAYMENT

Measurement for payment for Traffic Poles shall be by each Traffic Pole of that type that are supplied and installed, as specified in the contract documents.

537.05 BASIS OF PAYMENT

Payment shall be at the unit price for each pole supplied and installed complete with anchor bolts, nuts, washers, template, leveling grout, shop drawings and incidentals.