

350 - CONCRETE BASE AND CONCRETE
PAVEMENT - OPSS 350

350.1 GENERAL

The selection of the pavement design types is the responsibility of the Regions. Approval of certain designs, including all rigid pavement designs, however, will still be required by the Director of Construction and Operations.

A Pavement Advisory Committee has been established at Downsview to initiate when necessary, the development of policies, standards and procedures with respect to pavement structures; provide technical assistance to the Heads of the Regional Geotechnical Sections and, with the agreement of the Regional Director, submit Pavement Selection Reports containing the recommended pavement design to the Director of Construction and Operations for approval.

The Heads of each Regional Geotechnical Section will be invited to attend the Pavement Advisory Committee meetings for each project under consideration from their Region. If unable to attend, the Secretary will assist in processing the Reports through the Pavement Advisory Committee during their scheduled meetings.

The unit price for Concrete Base and Concrete Pavement includes the forming, placing, finishing, texturing, & curing of the material, the placing of tie bars, load transfer devices and the cutting, preparing and sealing of joints.

A price adjustment will be based on the average of pay factors for strength and thickness.

Where the road surface to receive concrete pavement or concrete base has been prepared under a previous contract, the tender item "Restoring Roadway Surfaces" is added as a separate tender item.

Tender Items

1. Concrete Base
2. Concrete Pavement

350.1.2 Specifications

Information for the above tender items is indicated in OPSS 350.

350.1.3 Special Provisions

The designer should refer to Chapter AE@ of this Manual to review the applicable Special Provisions.

350.1.4 Standard Drawings

Standard drawings applicable to the construction of Concrete Base or Concrete Pavement are contained in the OPSD 200, and 500, series.

350.2 COMPUTATION

These are Plan Quantity Payment items.

350.2.1 Source of Information

It is important that the Pavement Selection Report for any project be submitted for approval at the time of preparation of the Preliminary Design Report after approval of the Design Criteria. To facilitate the processing and approval of any design with special features or one which has not been used before by the Ministry, a full explanation of the non-standard elements should accompany the Report.

The thickness of the Concrete Base and Concrete Pavement is established by the Regional Geotechnical Section.

350.2.2 Methods of Calculation

The unit of measurement for Concrete Base and Concrete Pavement is the square metre.

The areas of proposed work are calculated from design drawings and typical sections (including all tapers-ramps-radii, etc.) and shown on the calculation sheets. The summarized quantities are transferred from the calculation sheet to the Quantities-Miscellaneous Sheet.

Lengths are to be calculated, on appropriate quantity calculation sheets, from design drawings, typical sections and/or cross sections.

Individual lengths are to be calculated to 2 decimal places along the longitude axis of the load transfer device, (placed on a skew), from edge of concrete pavement to edge of concrete pavement.

The summarized quantities are transferred to the Quantities Miscellaneous Sheet.

350.3 DOCUMENTATION

Concrete Pavement and Concrete Base are to be detailed on any Quantities-Miscellaneous sheets. Concrete Pavements of different depths are to be detailed

in separate columns and combined into one tender item. Concrete Base of different depths are to be detailed in separate columns and combined into one tender item.

350.3.1 Documentation Accuracy

Summarized Concrete quantities are recorded in whole number square metres.

Stations are recorded in whole numbers, and may be recorded to 0.1 m where necessary.