B320 – OPEN GRADED DRAINAGE LAYER - OPSS 320

320.1 GENERAL

Open Graded Drainage Layer is a highly permeable layer which is covered by a concrete pavement, concrete base or a hot mix asphalt pavement, and overlies a granular base course.

The design of all composite and concrete pavements should utilize an OGDL. OGDLs should be reviewed for use on all major arterial and expressway projects with composite and concrete pavements and may be considered for deep strength and full depth flexible pavements.

Reclaimed asphalt pavement or reclaimed Portland cement concrete are not to be used as aggregate for OGDL.

The compacted thickness of the OGDL should be 100 mm. A minimum allowable thickness (75 mm) for OGDL should be indicated on the contract drawings. The unit weight of OGDL is 1.7 t/m³. The OGDL is assigned the same structural value as a granular base.

OGDL must be drained by an edgedrain collector system, such as a conventional subdrain backfilled with clear stone or OGDL aggregate, wrapped in geotextile, which is in direct contact with the OGDL. The drainage system for OGDL should be placed prior to shoulder paving.

320.2 REFERENCES - None

320.3 TENDER ITEM

Open Graded Drainage Layer

320.4 SPECIFICATIONS

The requirements for the above tender item are contained in OPSS 320. The designer should refer to Appendix A of OPSS 320 to review the applicable designer considerations.
320.5 **SPECIAL PROVISIONS**

The designer should refer to Chapter “E” of this Manual to review the applicable Special Provisions.

320.6 **STANDARD DRAWINGS**

Applicable standard drawings are illustrated in the Ontario Provincial Standard Manual in the 200 series.

320.7 **DESIGN – None**

320.8 **COMPUTATION**

320.8.1 **Source of Information**

The main source of information for the above tender item is in the Pavement Design Report and Rehabilitation Manual and the Geotechnical Section and Soils and Aggregates Section may be contacted for specific information regarding geotextiles and their applications.

320.8.2 **Method of Calculation**

The unit of measurement for Open Graded Drainage Layer is by the square metre.

320.9 **DOCUMENTATION**

The location of each area is indicated on any Quantities - Hot Mix and Granular sheet.

320.9.1 **Documentation Accuracy**

Summarized areas are recorded in whole metres. Stations are recorded to the nearest whole metre.