

TOWN OF AJAX
DESIGN CRITERIA

SECTION K
MINIMUM TESTING REQUIREMENTS

SECTION K - MINIMUM TESTING REQUIREMENTS**DESIGN CRITERIA****COMPACTION**

<u>AREA</u>	<u>% COMPACTION</u>	<u>FREQUENCY</u>	<u>TEST LOCATION IDENTIFICATION</u>
Mainline Sewer Trench	95% (514.07.08)	15 m, 0.6 m maximum lift	Street, Distance from downstream manhole, i.e. MH 23 + 30 m
Mainline Watermain Trench	95% (514.07.08)	15 m, 0.6 m maximum lift	Street, Station and Offset
Road Subgrade	98% (top 1 m) i.e. 0 + 105, 3.5 mL (501.08.02)	15 m "Z" Pattern	Street, Station and Offset,
Service Trenches	Same as Road Subgrade	Random Selection	Lot Number
Watermain Crossings	Same as Road Subgrade	Each Crossing	Street, Station
Utility Trenches*	98% (subgrade) (501.08.02)	Each Crossing	Street, Station or Adjacent Lot Number
* NOTE: Utility crossings are to be installed prior to placement of granulars.			
Curb Line Bedding	100% (501.08.02)	15 m	Street, Station and Left or Right, i.e. 0 + 030 R
Granular "B"	100% (501.08.02)	15 m "Z" Pattern	Street, Station and Offset, i.e. 0 + 120, 3.5m R
Granular "A"	100% (501.08.02)	Same as Granular "B"	Same as Granular "B"

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AREA	% COMPACTION	FREQUENCY	TEST LOCATION IDENTIFICATION
Granular "A" (Driveways)	100%	1 test/driveway ● random location on driveway ● random selection of 1/3 of driveways	Lot or house number, distance from curb or garage
Asphalt** (HL3 & HL8)	96% (310.07.02.11)	15 m each lane	Street, Station and Left or Right, i.e. 0 + 120 south
Asphalt** (Driveways)	96% (310.07.02.11)	Same as Granular "A" (Driveways)	Same as Granular "A" (Driveways)

** NOTE: Recycled asphalt is accepted by the Town of Ajax up to 25% in base asphalt only.

CONCRETE

ITEM	FREQUENCY	TEST LOCATION IDENTIFICATION
Curb and Gutter	<ul style="list-style-type: none"> ● 3 locations per 500 m of curb, min. 3 cylinders per location to break at 7 and 28 days ● slump and air tests at each sampling location ● Conformity with OPSS 1350 except air to be 7% ± 1.5 	Station, Left or Right or Station, North, South, etc.
Sidewalk	<ul style="list-style-type: none"> ● 3 locations per 500 m of sidewalk ● minimum of 3 samples per location to break at 7 and 28 days ● slump and air tests at each sampling location ● Conformity with OPSS 1350 except air to be 7% ± 1.5 	Station, Left or Right or Station, North, South, etc.

SECTION K - MINIMUM TESTING REQUIREMENTS**DESIGN CRITERIA****ASPHALT**

ITEM	TEST LOCATION FREQUENCY	IDENTIFICATION
HL3 and HL8	<ul style="list-style-type: none"> ● samples to be taken every 150 m each lane, & temp. recorded ● 2 marshall tests and 2 extraction tests per full day of paving (local residential roads) ● Conformity to OPSS 1003, 1101, 1150 (AADT >5000) required ● samples to be taken every 100 m on industrial and collector roads ● for failures, further testing will be done of the samples to define the limits of the failure ● corrective action will depend on the nature and extent of the failures 	Street, Station, Left or Right or Adjacent Lot #, North lane etc.

GRANULAR GRADATION VERIFICATION

- (1) All granular materials shall be tested at the source prior to delivery on-site to verify that gradation requirements have been met for each type of granular. Gradation to conform to OPSS 1010.
- (2) All granular materials shall be sampled on-site not less than one gradation check per 100 m of road for an 8.5 m road.

NOTES

- (1) Additional testing may be required by the Town, depending on site conditions.
- (2) Results of compaction tests shall be plotted on plan/profile drawing for review at the site as well as being submitted to the Town, in a tabular form.
- (3) Subgrade shall be proof rolled in the presence of the Developer's Engineer. The Soils Consultant shall issue a certificate of compaction and approval prior to the placement of granular materials, stating that the trenches, services and road subgrade have been backfilled, compacted and tested in accordance with the Town's testing criteria and is suitable for the placement of granular materials.
- (4) The Soils Consultant shall issue a certificate of compaction and approval of granular materials prior to the placement of hot mix asphalt.