

**GENERAL NOTES**

1. ALL WORK SHALL BE CARRIED OUT IN COMPLIANCE WITH THE APPLICABLE HEALTH AND SAFETY ACT AND REGULATIONS FOR CONSTRUCTION PROJECTS.
2. THE POSITION OF POLE, LINES, CONDUITS, WATERMAINS, SEWER AND OTHER UNDERGROUND AND ABOVE GROUND UTILITIES AND STRUCTURES ARE NOT NECESSARILY SHOWN ON THE CONTRACT DRAWING AND WHERE SHOWN, THE ACCURACY OF THE POSITION OF SUCH UTILITIES AND STRUCTURE IS NOT GUARANTEED. BEFORE STARTING WORK, THE CONTRACTOR SHALL INFORM HIMSELF OF THE EXACT LOCATION OF ALL SUCH UTILITIES AND STRUCTURES AND SHALL ASSUME ALL LIABILITY FOR DAMAGE TO THEM. ANY VARIANCE IS TO BE IMMEDIATELY REPORTED TO THE ENGINEER. IN THE EVENT OF FAILURE OF THE CONTRACTOR TO CONFIRM UTILITY LOCATIONS AND NOTIFY THE ENGINEER OF POSSIBLE CONFLICTS PRIOR TO CONSTRUCTION WILL BE AT THE CONTRACTOR'S EXPENSE.
3. ALL SERVICES TO BE INSTALLED AS PER CITY STANDARDS, MINISTRY OF THE ENVIRONMENT (MOE) GUIDELINES, AND ONTARIO BUILDING CODE (OBC) (LATEST EDITION).
4. ALL WORK MATERIAL AND CONSTRUCTION METHODS TO CONFORM WITH THE LATEST STANDARDS, SPECIFICATIONS, POLICES, REGULATIONS, GUIDELINES AND LAWS FOR THE CITY OF MISSISSAUGA, ONTARIO BUILDING CODE (OBC), MINISTRY OF THE ENVIRONMENT (MOE), ONTARIO PROVINCIAL STANDARD DRAWINGS AND SPECIFICATIONS (OPSD AND OPSS), THE ENVIRONMENTAL PROTECTION ACT AND THE WATER RESOURCES ACT. WHERE A CITY STANDARD EXISTS IT SHALL BE USED IN PLACE OF THE OPSD/OPSS STANDARDS.
5. CONTRACTOR IS RESPONSIBLE FOR ANY MATERIAL TRACKED ONTO ADJACENT MUNICIPAL ROADS AND SHOULD PROVIDE CLEANING DAILY AND/OR AS MAY BE DIRECTED BY THE CITY OF MISSISSAUGA.
6. THIS PLAN SHOULD BE READ IN CONJUNCTION WITH ALL OTHER CONSULTANTS' PLANS. ANY DISCREPANCIES SHALL BE CLARIFIED PRIOR TO CONSTRUCTION. INFORMATION RELATED TO DIMENSIONS FOR PRIVATE ROAD, PARKING CURBING, BUILDING LOCATIONS AND SETBACKS SHALL BE TAKEN FROM THE SITE PLAN.
7. THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING AND PAYING FOR ALL PERMITS RELATED TO SERVICE CONNECTIONS

**STORM SEWERS:**

1. BEDDING FOR ALL CONCRETE PIPES SHALL BE AS PER CITY STANDARD DRAWING NO. 2122.080. BEDDING FOR ALL PVC PIPES SHALL BE AS PER CITY STANDARD DRAWING NO. 2112.080, DETAIL A-A WITH THE EXCEPTION OF MATERIAL ABOVE THE PIPE. WILL BE 19mm STONE SEWER BEDDING. NON CONCRETE SEWER BEDDING SHALL CONFORM WITH OPSD 1010 FOR GRANULAR "A" OR CITY STANDARD DRAWING NO. 2112.110 OR 2112.140 AND SAND COVER SHALL CONFORM WITH CITY STANDARD DRAWING NO. 2110.100. THE COMPACTION OF ALL BEDDING AND COVER MATERIALS SHALL BE IN ACCORDANCE WITH 95% STANDARD PROCTOR. MAXIMUM COVER SHALL BE IN ACCORDANCE WITH OPSD 806.04 AND 808.06. SPECIAL CARE MUST BE GIVEN TO CONTINUING THE BEDDING MATERIAL TO CONFORM WITH THE PIPE BOTTOM AND PROTECTING BELLS, ALONG WITH PROPER COMPACTION OF THE HAUNCHES IN ORDER TO PROVIDE EVEN SUPPORT THROUGHOUT THE PIPE. THE USE OF ANY BEDDING MATERIAL OR BACKFILL MATERIAL WITH DIAMETERS LARGER THAN 4cm WILL NOT BE PERMITTED AROUND ANY FLEXIBLE PIPE. BACKFILL OF ALL FLEXIBLE PIPES SHALL BE IN ACCORDANCE WITH THE MANUFACTURERS' SPECIFICATIONS, CITY STANDARDS AND OPSS 514.07.08.
2. SEWER SERVICE CONNECTION SHALL BE IN ACCORDANCE WITH OPSD 1006.04.
3. ALL STORM SEWER PIPES SHALL CONFORM TO THE REQUIREMENTS OF THE CANADIAN STANDARDS ASSOCIATION AND SHALL BE CLASS 65-D CONCRETE UNLESS OTHERWISE SPECIFIED. PVC PIPES SHALL BE DR-35 "ULTRA RIB".
4. MANHOLES MAY BE EITHER PRECAST OR POURED IN PLACE AND SHALL BE DESIGNED AND CONSTRUCTED IN ACCORDANCE WITH THE MOST RECENT ONTARIO PROVINCIAL STANDARD DRAWINGS AND SPECIFICATIONS.
5. O.P.S.D. STANDARD MANHOLE DETAILS SHALL BE USED FOR MANHOLE DESIGN.
6. WHERE THE DIFFERENCE IN ELEVATION BETWEEN THE OBVERT OF THE INLET AND OUTLET PIPES EXCEEDS 1.2m, A DROP PIPE AS INDICATED ON CITY STANDARD DRAWING NO. 2113.010 SHALL BE PLACED ON THE INLET PIPE.
7. STORM SEWER MANHOLES SHALL BE BENCHED TO THE OBVERT OF THE OUTLET PIPE ON A VERTICAL PROJECTION FROM THE SPRING LINE OF THE SEWER.
8. FOR SINGLE CATCHBASINS, THE MINIMUM SIZE OF

**NOTES:**

1. LOCATION OF EXISTING SERVICES AND UTILITIES ON PONY TRAIL DRIVE BASED ON EXISTING DRAWINGS PROVIDED BY CITY OF MISSISSAUGA AND REGION OF PEEL.
2. LOCATION OF EXISTING SERVICES WITHIN SUBJECT SITE BASED ON SUBSURFACE INVESTIGATION BY COLE ENGINEERING GROUP, DATED APRIL 2015.
3. CONTRACTOR TO VERIFY LOCATION OF ALL SERVICES UTILITIES PRIOR TO CONSTRUCTION AND ADVISE ENGINEER OF ANY DISCREPANCIES.

CARRY OUT YEARLY MAINTENANCE ON THE SPILL CONTROL CHAMBER IN ACCORDANCE TO THE MANUFACTURER'S RECOMMENDATIONS

IMPLEMENT STORMWATER MANAGEMENT REPORT AND ON-SITE STORMWATER MANAGEMENT REQUIREMENTS

**LEGAL DESCRIPTION:**

PLAN OF BLOCK EE,  
REGISTERED PLAN M-58  
CITY OF MISSISSAUGA  
REGIONAL MUNICIPALITY OF PEEL

SURVEY PREPARED BY:  
4CE'S SURVEY SERVICES,  
32 SETTLERS COURT,  
WHITBY, ON  
TELEPHONE: 416-688-7747

NOTE:  
SURVEY IS IN METERS AND SURVEYED WITH A SOKKIA GPS UNIT. THE CONTROL IS SET FROM THE TOPCON NETWORK. VERTICAL CONTROL WAS CHECKED WITH CITY OF MISSISSAUGA BM#904 (ELV 137.863). HORIZONTAL CONTROL IS IN 6 DEGREE NAD 83 (2010 CSRS)

**NOTES**

THE LOCATION OF ALL UNDERGROUND UTILITIES AND STRUCTURES IS NOT NECESSARILY SHOWN ON THE CONTRACT DRAWINGS, AND WHERE SHOWN, THE ACCURACY OF THE LOCATION OF SUCH UTILITIES AND STRUCTURES IS NOT GUARANTEED. BEFORE STARTING WORK THE CONTRACTOR SHALL INFORM HIMSELF OF THE EXACT LOCATION OF ALL UTILITIES AND STRUCTURES AND SHALL ASSUME ALL LIABILITY FOR DAMAGE TO THEM.

**REGION OF PEEL NOTES:**

1. PUBLIC AND PRIVATE SERVICES, APPURTENANCES, MATERIALS AND CONSTRUCTION METHODS MUST COMPLY WITH THE MOST RECENT REGION OF PEEL STANDARDS AND SPECIFICATIONS, THE LOCAL MUNICIPALITY'S REQUIREMENTS FOR THE ONTARIO BUILDING CODE AND PROVINCIAL STANDARDS. ALL WORKS SHALL ADHERE TO ALL OF THE APPLICABLE LEGISLATION, INCLUDING REGIONAL BY-LAWS
2. WATERMAIN AND / OR WATER SERVICE MATERIALS 100 MM (4") AND LARGER MUST BE PVC DR18 CONSTRUCTED AS PER AWWA C900-16. SIZE 50 MM (2") AND SMALLER MUST BE TYPE K SOFT COPPER CONSTRUCTED AS PER ASTM B88-49
3. WATERMAINS AND / OR WATER SERVICES ARE TO HAVE A MINIMUM COVER OF 1.7m WITH A MINIMUM HORIZONTAL SPACING OF 1.2m FROM THEMSELVES AND ALL OTHER UTILITIES.
4. PROVISIONS FOR FLUSHING WATER LINE PRIOR TO TESTING, ETC. MUST BE PROVIDED WITH AT LEAST A 50mm OUTLET ON 100mm AND LARGER LINES. COPPER LINES ARE TO HAVE FLUSHING POINTS AT THE END, THE SAME SIZE AS THE LINE. THEY MUST ALSO BE HOSED OR PIPE TO ALLOW THE WATER TO DRAIN INTO A PARKING LOT OR DOWN A DRAIN ON FIRE LINES, FLUSHING OUTLET TO BE 100mm DIAMETER MINIMUM ON A HYDRANT.
5. ALL CURB STOPS TO BE 3.0m OFF THE FACE OF THE BUILDING UNLESS OTHERWISE NOTED.
6. HYDRANT AND VALVE SET TO REGION STANDARD 1-6-1 DIMENSION A AND B, 0.7m AND 0.9m AND TO HAVE PUMPER NOZZLE.
7. WATERMAINS TO BE INSTALLED TO GRADES AS SHOWN ON APPROVED SITE PLAN. COPY OF GRADE SHEET MUST BE SUPPLIED TO INSPECTOR PRIOR TO COMMENCEMENT OF WORK, WHERE REQUESTED BY INSPECTOR.
8. WATERMAINS MUST HAVE A MINIMUM VERTICAL CLEARANCE OF 0.3m OVER / 0.5m UNDER SEWERS AND ALL OTHER UTILITIES WHEN CROSSING.

9. ALL PROPOSED WATER PIPING MUST BE ISOLATED FROM EXISTING LINES IN ORDER TO ALLOW INDEPENDENT PRESSURE TESTING AND CHLORINATING FROM EXISTING SYSTEMS.
10. ALL LIVE TAPPING AND OPERATION OF REGION WATER VALVES SHALL BE ARRANGED THROUGH THE REGIONAL CONTRACTOR ASSIGNED OR BY CONTRACTING THE OPERATIONS AND MAINTENANCE DIVISION.
11. LOCATION OF ALL EXISTING UTILITIES IN THE FIELD TO BE ESTABLISHED BY THE CONTRACTOR.
12. THE CONTRACTOR(S) SHALL BE SOLELY RESPONSIBLE FOR LOCATES, EXPOSING, SUPPORTING AND PROTECTING OF ALL UNDERGROUND AND OVERHEAD UTILITIES AND STRUCTURES EXISTING AT THE TIME OF CONSTRUCTION IN THE AREA OF THEIR WORK WHETHER SHOWN ON THE PLANS OR NOT AND FOR ALL REPAIRS AND CONSEQUENCES RESULTING FROM DAMAGE TO SAME.
13. THE CONTRACTOR(S) SHALL BE SOLELY RESPONSIBLE TO GIVE 72 HOURS WRITTEN NOTICE TO THE UTILITIES PRIOR TO CROSSING SUCH UTILITIES. FOR THE PURPOSE OF INSPECTION BY THE CONCERNED UTILITY. THIS INSPECTION WILL BE FOR THE DURATION OF THE CONSTRUCTION, WITH THE CONTRACTOR RESPONSIBLE FOR ALL COSTS ARISING FROM SUCH INSPECTION.
14. ALL PROPOSED WATER PIPING MUST BE ISOLATED THROUGH A TEMPORARY CONNECTION THAT SHALL INCLUDE AN APPROPRIATE CROSS-CONNECTION CONTROL DEVICE, CONSISTENT WITH THE DEGREE OF HAZARD, FOR BACKFLOW PREVENTION OF THE ACTIVE DISTRIBUTION SYSTEM, CONFORMING TO REGION OF PEEL STANDARDS 1-7-7 OR 1-7-8.
15. ALL WATER METERS MUST BE INSTALLED IN HEATED AND ACCESSIBLE SPACE
16. PROPOSALS TO CONNECT TO AN EXISTING SERVICE LATERAL, REQUIRE APPROVAL FROM THE REGION OF PEEL INSPECTOR AT CONSTRUCTION STAGE.

**REGION OF PEEL GENERAL NOTES:**

1. THE APPLICANT, APPLICANT'S REPRESENTATIVE, CONSULTANT, CONTRACTOR AND SUB CONTRACTORS ARE RESPONSIBLE TO ENSURE THAT THEIR DESIGN MATERIALS AND CONSTRUCTION PRACTICES CONFORM TO THE LATEST REGION OF PEEL STANDARDS, SPECIFICATIONS, MATERIALS AND DESIGN CRITERIA, POSTED ON REGION OF PEEL'S WEBSITE ([www.peelregion.ca/pw/standards](http://www.peelregion.ca/pw/standards)). IN THE ABSENCE OF REGION SPECIFICATIONS, THE ONTARIO PROVINCIAL STANDARD SPECIFICATIONS (OPSS) SHALL APPLY.
2. ALL WORKS SHALL BE COMPLETED IN ACCORDANCE WITH THE "OCCUPATIONAL HEALTH AND SAFETY ACT". THE GENERAL CONTRACTOR SHALL BE DEEMED THE CONTRACTOR AS DEFINED IN THE ACT.
3. THE CONTRACTOR AT THEIR EXPENSE SHALL VERIFY THE LOCATION, DIMENSION AND ELEVATION OF ALL EXISTING SERVICES AND UTILITIES IN THE FIELD.
4. PRIOR TO EXCAVATION OR BORING CONTRACTOR AT THEIR EXPENSE SHALL EXPOSE AND VERIFY THE LOCATION AND ELEVATION OF ALL EXISTING UTILITIES AND SERVICES TO BE CROSSED AND MUST NOTIFY THE DESIGN ENGINEER AND THE AGENCY FIELD INSPECTOR AND/OR PROJECT MANAGER IMMEDIATELY, IN WRITING, OF ANY CONFLICTS OR DISCREPANCIES. CONTRACTOR SHALL BE RESPONSIBLE FOR EXPOSING THE EXISTING UTILITIES FAR ENOUGH IN ADVANCE OF CONSTRUCTION TO MAKE NECESSARY DESIGN MODIFICATIONS FOR REVIEW AND APPROVAL, IF REQUIRED, WITHOUT DELAYING THE WORK.
5. THE CONTRACTOR, AT THEIR EXPENSE AND TO THE SATISFACTION OF THE REGION OF PEEL, SHALL BE RESPONSIBLE FOR THE RESTORATION AND THE REPAIR OF THE EXISTING UTILITIES AND ALL AREAS BEYOND THE PLAN OF SUBDIVISION DISTURBED DURING CONSTRUCTION.
6. THE SUPPORT OF ALL UTILITIES SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF THE AUTHORITY HAVING JURISDICTION.
7. ALL BACKFILL FOR SEWERS, WATERMAINS AND UTILITIES ON THE ROAD ALLOWANCE MUST BE MECHANICALLY COMPACTED.
8. ALL BOREHOLES SHOWN ON DRAWING ARE FOR INFORMATION ONLY. REFER TO GEOTECHNICAL REPORT.
9. ALL DIMENSIONS ARE IN METRES UNLESS OTHERWISE SPECIFIED.

