WATERMAINS:

1. WATERMAIN SHALL BE POLYVINYL CHLORIDE (PVC) CLASS 235 DR-18 PIPE MANUFACTURED TO AWWA C900-89 AND CSA CAN3 B137.3-M1986 WITH GASKETED BELL END C/W #14 AWG SOLID COPPER TRACER WIRE.

2. WATERMAINS SHALL HAVE A MINIMUM VERTICAL CLEARANCE OF 300mm OVER AND 500mm UNDER SEWERS AND ALL OTHER UTILITIES WHEN CROSSING. ALL WATERMAINS AND SERVICES SHALL HAVE 1.80m MINIMUM COVER.

3. BEDDING FOR WATERMAINS SHALL BE AS PER OPSD 802.030.

4. ALL WATERMAIN HORIZONTAL AND VERTICAL BENDS, JOINTS AND PLUGS TO BE MECHANICALLY RESTRAINED. THRUST BLOCKS/MECHANICAL RESTRAINERS MUST BE INSTALLED ON ALL WATERMAIN BENDS, TEES, AND PLUGS AS PER LOCAL MUNICIPAL STANDARDS.

5. ALL WATERMAIN STUBS SHALL BE TERMINATED WITH A PLUG AND 50mm BLOW OFF UNLESS OTHERWISE NOTED.

6. HYDRANT AND VALVE TO BE AS PER OPSD 1105.010.

7. ALL HYDRANT FLANGE ELEVATIONS TO BE INSTALLED 0.15m ABOVE PROPOSED FINISHED GRADE AT HYDRANT.

8. BUILDING SERVICE VALVES TO BE 3.0m OFF THE FACE OF THE BUILDING UNLESS OTHERWISE NOTED AND MUST BE RESTRAINED A MINIMUM OF 12m BACK FROM STUB.

9. PROVISIONS FOR FLUSHING WATERMAINS MUST BE PROVIDED WITH A MINIMUM 50mm OUTLET FOR MAINS 100mm AND LARGER. FLUSHING POINTS MATCHING THE SIZE OF THE PIPE MUST BE PROVIDED AT THE END OF EACH COPPER MAIN. FIRE MAIN FLUSHING OUTLETS TO BE 100mm DIAMETER MINIMUM OR A HYDRANT. FLUSHING POINTS MUST BE HOSED OR PIPED TO ALLOW THE WATER TO DRAIN.

10. ALL WATERMAINS SHALL BE HYDROSTATICALLY TESTED IN ACCORDANCE WITH REGION OF PEEL STANDARDS AND SPECIFICATIONS UNLESS OTHERWISE DIRECTED. PROVISIONS FOR FLUSHING WATER LINE PRIOR TO TESTING, ETC. MUST BE PROVIDED.

11. ALL PROPOSED WATER PIPING MUST BE ISOLATED FROM EXISTING MAINS IN ORDER TO ALLOW INDEPENDENT PRESSURE TESTING AND CHLORINATION AS PER REGION OF PEEL STANDARDS AND SPECIFICATIONS.

12. ALL MATERIALS AND CONSTRUCTION METHODS MUST CORRESPOND TO THE CURRENT PEEL PUBLIC WORKS STANDARDS AND SPECIFICATIONS.

13. WATERMAIN AND / OR WATER SERVICE MATERIALS 100mm (4") AND LARGER MUST BE PVC SDR-18 CLASS 235. SIZE 50mm (2") AND SMALLER MUST BE COPPER TYPE 'K'.

14. ALL CURB STOPS TO BE 3.0m (10') OFF THE FACE OF THE BUILDING UNLESS OTHERWISE NOTED.

15. HYDRANT AND VALVE SET TO REGION STANDARD 1 - 6 -1 DIMENSION A AND B, 0.7m (2') AND 0.9m (3') AND TO HAVE PUMPER NOZZLE.

16. 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.

17. ALL LIVE TAPPING AND OPERATION OF REGION WATER VALVES SHALL BE ARRANGED THROUGH THE REGIONAL INSPECTOR ASSIGNED OR BY CONTACTING THE OPERATIONS AND MAINTENANCE DIVISION.

18. 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 HIS WORK. WHETHER SHOWN ON THE PLANS OR NOT, AND FOR ALL REPAIRS AND CONSEQUENCES RESULTING FROM DAMAGE TO SAME.

19. THE CONTRACTOR(S) SHALL BE SOLELY RESPONSIBLE TO GIVE 72 HOURS WRITTEN NOTICE TO 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.

20. 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 STANDARD 1-7-7 OR 1-7-8.

STORM AND SANITARY SEWER:

1. MANHOLES SHALL BE AS PER OPSD 701.010 AND OPSD 701.011; FRAMES AND COVERS SHALL BE AS PER OPSD 401.010. SAFETY PLATFORMS TO BE INSTALLED AS PER REGION OF PEEL STANDARDS 2-2-12 WHERE DEPTH EXCEEDS 5.0m.

2. SINGLE CATCH BASINS SHALL BE AS PER OPSD 705.010, WITH FRAMES AND COVERS AS PER OPSD 400.020. DOUBLE CATCH BASINS SHALL BE AS PER OPSD 705.020.

3. CONCRETE PIPE SEWER BEDDING SHALL BE AS PER OPSD 802.030. PVC PIPE SEWER BEDDING SHALL BE CLASS 'B' AS PER OPSD 802.030 TO TOP OF SEWER. NATIVE BACKFILL TO BE COMPACTED TO A MIN. 98% STANDARD PROCTOR DENSITY WITH A MINIMUM 300mm SAND COVER OVER PIPE.

4. ALL STORM SEWER PIPES UP TO 450mm DIA. SHALL BE PVC SDR-35 OR APPROVED EQUIVALENT. ALL STORM SEWER PIPES 525mm DIA. AND LARGER SHALL BE CONCRETE AND EQUAL TO C.S.A. SPECIFICATIONS A257.2 REINFORCED CLASSES AS SPECIFIED (65-D, 100-D, 140-D,) OR LATEST AMENDMENT UNLESS OTHERWISE SPECIFIED.

5. ALL SANITARY PVC SEWER PIPES SHALL BE SDR-35 EQUAL CSA SPECIFICATIONS B182.2-M 1990 OR LATEST AMENDMENT UNLESS OTHERWISE NOTED.

6. ALL MANHOLE AND CATCH BASIN EXCAVATIONS TO BE BACKFILLED WITH GRANULAR MATERIAL COMPACTED TO 98% STANDARD PROCTOR DENSITY.

7. ALL BLIND CONNECTIONS TO MATCH THE INVERT OF THE CATCH BASIN LEAD TO THE SPRINGLINE OF THE STORM PIPE. OTHERWISE INSTALL THE CATCH BASIN LEAD AT A MAXIMUM 2.00% AND DROP INTO PIPE.

8. UNLESS NOTED OTHERWISE, CATCH BASIN LEADS SHALL BE 250mmØ AT MINIMUM 1.00% SLOPE.

9. THE CONTRACTOR IS TO PROVIDE CCTV CAMERA INSPECTIONS OF ALL SANITARY AND STORM SEWERS, INCLUDING PICTORIAL REPORT AND TWO (2) CD COPIES IN A FORMAT SATISFACTORY TO THE ENGINEER. ALL SEWERS ARE TO BE FLUSHED PRIOR TO CAMERA INSPECTION.

GENERAL NOTES:

1. ALL WORK SHALL BE CARRIED OUT IN COMPLIANCE WITH THE APPLICABLE HEALTH AND SAFETY ACT AND REGULATIONS FOR CONSTRUCTION PROJECTS.

2. ALL THE CONSTRUCTION WORK FOR THIS PROJECT SHALL COMPLY WITH THE STANDARD DRAWINGS AND SPECIFICATIONS OF THE CITY OF MISSISSAUGA, REGION OF PEEL, AND THE ONTARIO PROVINCIAL STANDARDS AND SPECIFICATIONS.

3. THE CONTRACTOR IS ADVISED THAT WORKS BY OTHERS MAY BE ONGOING DURING THE PERIOD OF THIS CONTRACT. THE CONTRACTOR SHALL COORDINATE CONSTRUCTION ACTIVITIES WITH ALL OTHER CONTRACTORS AND PREVENT CONSTRUCTION CONFLICTS.

4. THE INFORMATION SHOWN FOR EXISTING UTILITIES WAS PROVIDED BY OTHERS. THE CONTRACTOR IS RESPONSIBLE FOR LOCATING AND PROTECTING ALL UTILITIES DURING CONSTRUCTION. ALL EXISTING UTILITIES MUST BE LOCATED AND VERIFIED BY EACH UTILITY PRIOR TO COMMENCEMENT OF WORK. ANY VARIANCE IS TO BE IMMEDIATELY REPORTED TO THE ENGINEER. LOST TIME DUE TO FAILURE OF THE CONTRACTOR TO CONFIRM UTILITY LOCATIONS AND NOTIFY THE ENGINEER OF CONFLICTS PRIOR TO CONSTRUCTION WILL BE AT THE CONTRACTORS EXPENSE.

5. ROAD OCCUPANCY/ACCESS PERMIT MUST BE OBTAINED 48 HOURS PRIOR TO COMMENCING ANY WORKS WITHIN THE MUNICIPAL ROAD ALLOWANCE.

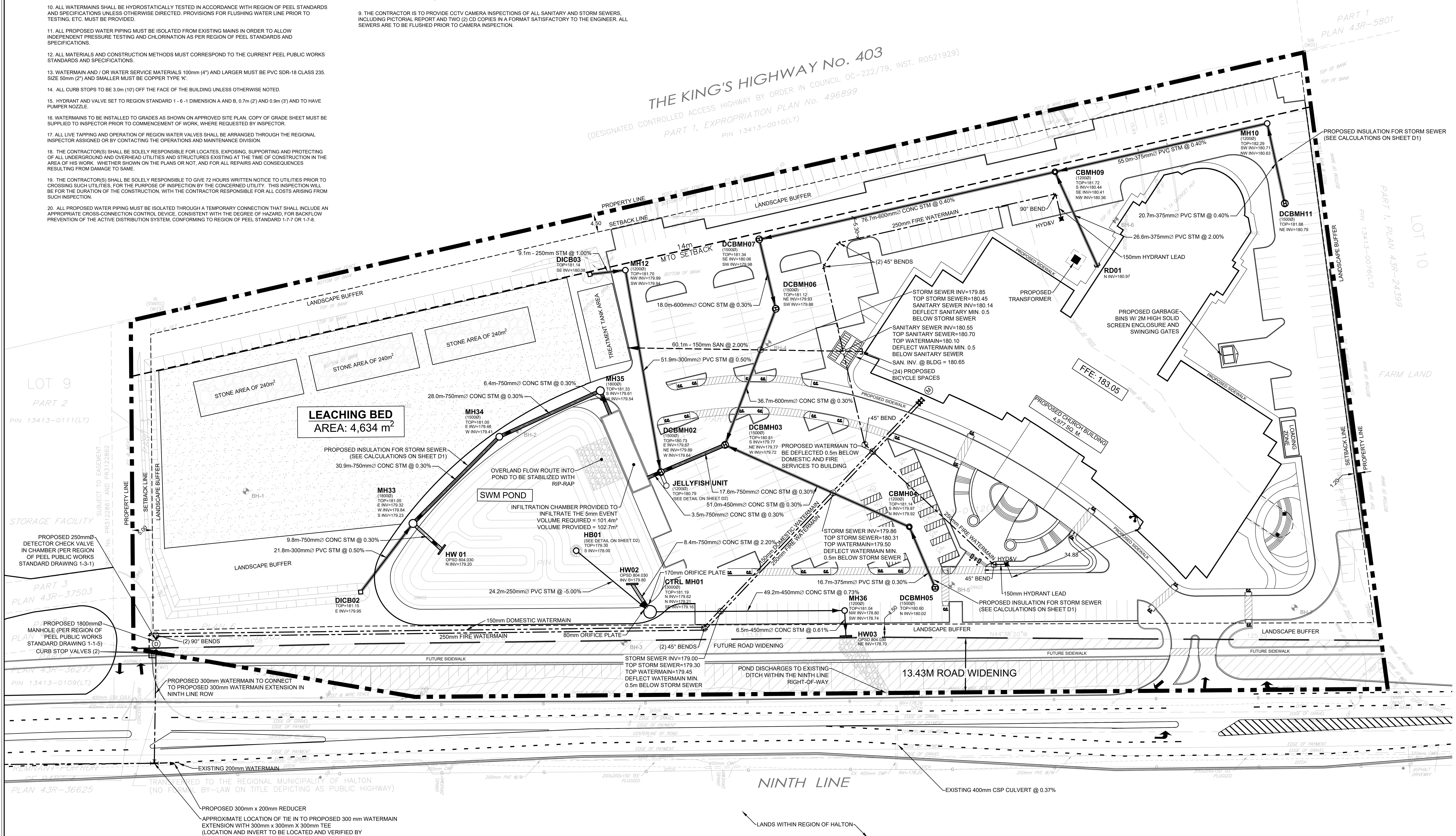
6. WORKS IN MUNICIPAL RIGHT-OF-WAY BEING PERFORMED BY THE CITY'S CONTRACTOR WILL REQUIRE 4 TO 6 WEEKS NOTICE PRIOR TO COMMENCEMENT OF CONSTRUCTION AFTER ALL DRAWINGS HAVE BEEN APPROVED AND SECURITIES HAVE BEEN RECEIVED.

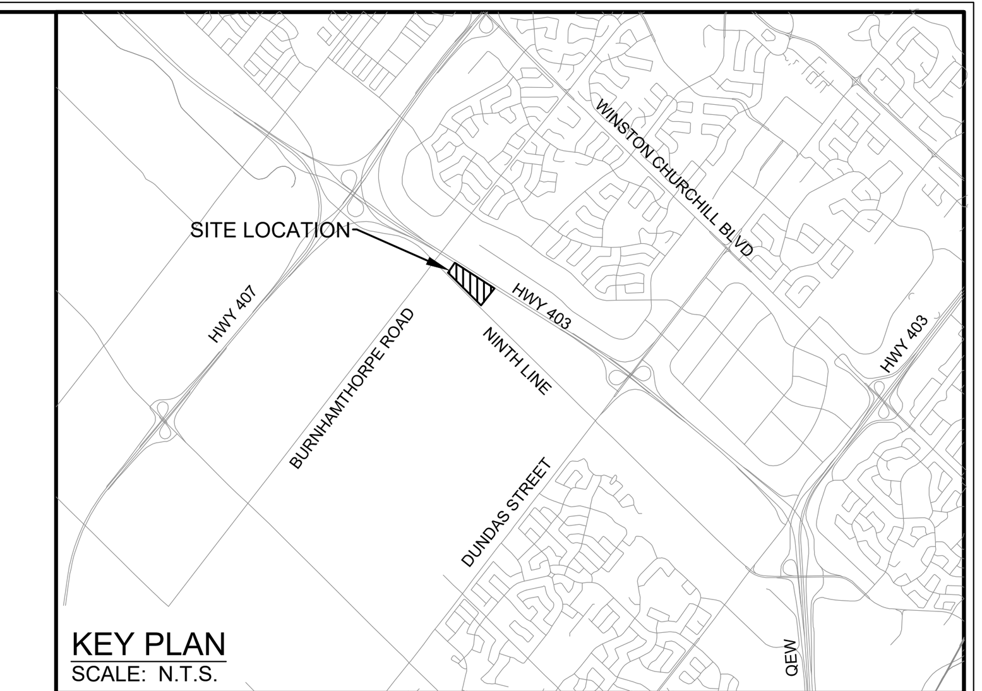
7. SHOULD ANY WORKS BE REQUIRED WITHIN THE MUNICIPAL RIGHT OF WAY, A ROAD OCCUPANCY PERMIT WILL BE REQUIRED. PUCC APPROVAL WILL BE REQUIRED. FOR FURTHER INFORMATION, PLEASE CONTACT THE PUCC/PERMIT TECHNOLOGIST, LOCATED AT 3185 MAVIS ROAD.

GENERAL CONFORMANCE NOTES:

THE CONTRACTOR/OWNER SHALL PROVIDE THE FOLLOWING DOCUMENTS FOR REVIEW A MINIMUM OF (14) DAYS PRIOR TO REQUIRING CIVIL ENGINEERING GENERAL CONFORMANCE. FOR FURTHER DETAILS AND REQUIREMENTS REFER TO DIVISION SPECIFICATIONS IF APPLICABLE.

1. COMPLETED AND PASSING WATERMAIN PRESSURE AND CHLORINATION TEST RESULTS IN ACCORDANCE WITH LOCAL MUNICIPAL STANDARDS;
2. CCTV VIDEOS OF ALL STORM AND SANITARY PIPES INCLUDING CATCHBASIN LEADS IN GOOD WORKING ORDER;
3. AN ACCEPTANCE/CONFORMANCE/APPROVAL SUMMARY LETTER FROM THE GEOTECHNICAL ENGINEER OF RECORD STATING THAT THEY HAVE REVIEWED THE SITE DURING THE WORKS AND FIND THE FOLLOWING ITEMS TO MEET PROJECT GEOTECHNICAL REQUIREMENTS: PIPE BEDDING, COVER AND BACKFILL, GRANULAR, ASPHALT AND CONCRETE MATERIALS, ETC.;
4. STRUCTURAL AND GEOTECHNICAL ACCEPTANCE/CONFORMANCE/APPROVAL SUMMARY LETTER FOR ALL RETAINING WALLS AND STRUCTURAL COMPONENTS OF THE PROJECT (IF APPLICABLE);
5. A DETAILED AS BUILT SURVEY INCLUDING BUT IS NOT LIMITED TO: STORM & SANITARY STRUCTURE LOCATIONS/ELEVATIONS, PIPE INVERTS/LOCATION AND RIM ELEVATIONS, HYDRANT FLANGE ELEVATIONS, WATERMAIN VALVE LOCATIONS, WATERMAIN PIPE LOCATION/ELEVATIONS, HYDRO AND GAS LOCATIONS/ELEVATIONS, SURFACE ELEVATIONS THROUGHOUT THE SITE INCLUDING ALL HIGH AND LOW POINTS INDICATED ON THE GRADING PLAN, PARKING AREA AND DRIVE AISLE ELEVATIONS AT 15 METER INTERVALS, ACCESSIBLE RAMP LOCATIONS, TOP AND BOTTOM OF RETAINING WALL ELEVATIONS, CURB CUT LOCATIONS AND SWALE/DITCH LOCATION/ELEVATIONS, ETC.





KEY PLAN
SCALE: N.T.S.

LEGEND

- PROPERTY BOUNDARY
- ADJACENT PROPERTY BOUNDARY
- EXISTING EASEMENT
- EXISTING SETBACK LIMIT
- EXISTING 14m MTO SETBACK
- PROPOSED LANE MARKINGS
- PROPOSED RETAINING WALL
- PROPOSED RIPRAP
- BH EXISTING BOREHOLE
- PROPOSED STORM MANHOLE
- PROPOSED STORM SEWER (INSULATED)
- PROPOSED STORM DOUBLE CATCHBASIN MANHOLE,
- PROPOSED CATCHBASIN MANHOLE
- PROPOSED DITCH INLET CATCHBASIN
- PROPOSED SANITARY SEWER
- EXISTING WATERMAIN
- PROPOSED WATERMAIN
- PROPOSED SIAMESE CONNECTION
- PROPOSED HYDRANT AND VALVE
- PROPOSED VALVE AND BOX
- M / D PROPOSED WATER METER / DETECTOR CHECK VALVE
- PROPOSED TEE / REDUCER

BENCHMARK
ELEVATIONS ARE REFERRED TO THE CANADIAN GEODETIC VERTICAL DATUM (CGVD-1928: PRE 1978) AND ARE DERIVED FROM CITY OF MISSISSAUGA BENCHMARK MONUMENT No. 1065, HAVING A PUBLISHED ELEVATION OF 178.912 METRES.

2. The contractor shall verify all dimensions, levels, and datums on site and report any discrepancies or omissions to this office prior to construction.
3. This drawing is to be read and understood in conjunction with all other plans and documents applicable to this project.

NOT FOR CONSTRUCTION

No.	Issue / Revision	Date	Auth.
1	ISSUED FOR SITE PLAN APPROVAL	20/03/20	DN
2	RE-ISSUED FOR SITE PLAN APPROVAL	22/01/11	DN
3	RE-ISSUED FOR SITE PLAN APPROVAL	23/05/10	TR
4	RE-ISSUED FOR ZONING	24/04/03	TR
5	RE-ISSUED FOR ZONING	24/12/18	LG

LICENSED PROFESSIONAL ENGINEER
L. F. GALATI
100569699
December 18, 2024
PROVINCE OF ONTARIO

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Client
St. MARK AND St. DEMIANA COPTIC ORTHODOX CHURCH
462 FALGARWOOD DRIVE
OAKVILLE, ON
L6H 1N3

Drawing Title
3475 NINTH LINE, MISSISSAUGA

SERVICING PLAN

Drawn	Checked	Designed	Checked	Date	Drawing No.
LG	JM	LG	JM	23/07/17	S1
Project No. 300044049		Contract No. CONTRACT NO.		Revision No. 0	
Scale 1:500	0 5.0 10.0 20.0 30.0m				