

SUBJECT LANDS

THE POSITION OF POLE LINES, CONDUITS, WATERMAINS, SEWERS AND UNDERGROUND AND ABOVE GROUND UTILITIES IS NOT NECESSARILY SHOWN ON THE CONTRACT DRAWINGS, AND WHERE SHOWN, THE ACCURACY OF THE POSITION OF SUCH UTILITIES AND STRUCTURES IS NOT GUARANTEED.BEFORE STARTING THE WORK THE CONTRACTOR SHALL CONFIRM OF THE EXACT LOCATION OF ALL UTILITIES AND STRUCTURES, AND SHALL ASSUME ALL LIABILITY FOR DAMAGE TO THEM.

THE CONTRACTOR MUST CHECK AND VERIFY ALL DIMENSIONS ON THE JOB AND REPORT ANY DISCREPANCY TO THE ARCHITECTS/ENGINEERS BEFORE PROCEEDING

ALL DRAWINGS AND SPECIFICATIONS ARE INSTRUMENTS OF SERVICE AND THE PROPERTY OF THE ENGINEER WHICH MUST BE RETURNED AT THE COMPLETION OF

THIS DRAWING IS NOT TO BE SCALED. CONTRACTOR TO USE DIGITAL FILES FOR LAYOUT PROVIDED BY ENGINEER. THIS PLAN MUST NOT BE USED TO SITE THE

THE APPROVAL OF THIS PLAN DOES NOT EXEMPT THE OWNER'S CONTRACTOR FROM OBTAINING, BUT NOT LIMITED TO THE FOLLOWING PERMITS: ROAD CUT, SEWER PERMITS, RELOCATION OF SERVICES, ENCROACHMENT AGREEMENTS, APPROACH

EXISTING TOPOGRAPHICAL INFORMATION SUPPLIED BY YOUNG & YOUNG SURVEYING

1) ELEVATIONS HEREON ARE GEODETIC IN ORIGIN AND WERE DERIVED FROM GPS OBSERVATIONS USING THE "TOPNET" GPS NETWORK AND ARE REFERRED TO THE

2) ELEVATIONS HEREON ARE GEODETIC IN ORIGIN AND WERE DERIVED FROM CITY OF BRAMPTON MONUMENT NO. 042200365 (NAD83 ADJUSTMENT) HAVING A PUBLISHED ELEVATION OF 242.135 m.

LOCATED 72.80M SOUTH OF CENTRELINE OF MAYFIELD ROAD AND 19.81M EAST OF CENTRELINE OF TORBRAM ROAD.

A CUT CROSS HAVING ELEVATION 242.51 m WAS SET ON THE NORTHEAST CORNER OF THE INTERCETION BETWEEN MAYFILED ROAD AND TORBRAM ROAD.

ISSUED FOR SPA JULY 15/22 M.E.H. JUNE 22/22 M.E.H. ISSUED FOR REVIEW & COORDINATION DATE REVISIONS BY

16

SECTIONS

PROPOSED INDUSTRIAL DEVELOPMENT TULLAMORE LANDS CALEDON, ONTARIO

TULLAMORE LANDS



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GENERAL SERVICING NOTES STORM SEWERS

- 1). ALL STORM SEWERS 375mmø AND SMALLER TO BE PVC SDR 35 IN ACCORDANCE WITH CSA-B182.2, ASTM D-2779 AND ASTM D-3034 OR LATEST REVISIONS. 450mmø AND LARGER TO BE CONCRETE IN ACCORDANCE WITH CSA A257.2, CLASS 100D OR LATEST REVISIONS. UNLESS OTHERWISE NOTED. ROOF TOP STORM LEADS 150mmø AND SMALLER TO BE PVC SDR 28
- 2). ALL 300mmø CONCRETE PIPE TO BE NON REINFORCED CONCRETE PIPE CLASS 3 (EXTRA STRENGTH) AS PER ASTM C14 AND CSA 257.1, WHERE REQUIRED.
- 3). ULTRA RIBBED PVC PIPE SHALL NOT BE USED, UNLESS OTHERWISE DIRECTED BY THIS ENGINEER 4). ALL CATCH BASIN LEADS TO BE A MINIMUM OF 300mmø PVC SDR 35 IN ACCORDANCE WITH
- CSA-B182.2, ASTM D-2779 AND ASTM D-3034 OR LATEST REVISIONS, UNLESS OTHERWISE NOTED. 5). BEDDING AND COVER FOR PVC SEWERS (FLEXIBLE PIPE) AS PER OPSD 802.010, GRANULAR "A"
- COMPACTED TO 100% SPD. 6). BEDDING AND COVER FOR CONCRETE SEWERS (RIGID PIPE) AS PER OPSD 802.030, CLASS B, GRANULAR 'A', COMPACTED TO 100% SPD.
- 7). ALL STORM SERVICES TO BUILDINGS SHALL BE AT A MINIMUM SLOPE OF 1.0%
- 8). THE CONTRACTOR IS TO CAP ALL STORM SERVICES 1.5 METRES AWAY FROM THE PROPOSED BUILDING LINES UNLESS OTHERWISE NOTED.
- 9). CULVERT THICKNESS SHALL BE 2.0mm MINIMUM WITH LENGTHS IN STANDARD INCREMENTS OF 3, 6, AND 7m.
- 10). STORM MANHOLES SHALL BE AS PER OPSD-701.010, 701.011, 701.012, 701.013, 701.014, 701.015. BENCHING TO SPRINGLINE OF PIPE AS PER OPSD-701.021. FRAME & COVER AS PER OPSD-401.01. 11). ALL CATCH BASIN MANHOLES AS PER OPSD 701.010. FRAME AND GRATE AS PER OPSD 400.02.
- 12). ALL MANHOLE AND CATCH BASIN ADJUSTMENTS SHALL BE AS PER OPSD-704.010. MAXIMUM OF THREE (3) UNITS AND 300mm HIGH, WHERE EXCEED CAST-IN-PLACE
- OR PRE-CAST RISER SECTIONS SHALL BE PROVIDED.
- 13). ALL SAFETY GRATES AS PER OPSD 404.020 FOR MANHOLES > 5.0m DEPTH.
- 14). EXISTING STORM MANHOLE(S) TO BE RE-BENCHED AS REQUIRED, AS PER OPSD-701.021
- 15). ALL CATCH BASINS SHALL BE INSTALLED IN ACCORDANCE WITH OPSD 705.010, INCLUDE GOSS TRAP IF REQUIRED BY TOWN. ALL CATCH BASIN FRAMES AND COVERS AS PER OPSD 400.02.
- 16). ALL DOUBLE CATCH BASINS SHALL BE INSTALLED IN ACCORDANCE WITH OPSD-705.020, INCLUDE GOSS TRAP IF REQUIRED BY TOWN. ALL CATCH BASIN FRAMES AND COVERS AS PER OPSD 400.02.
- 17). ALL DITCH INLET CATCH BASINS SHALL BE AS PER OPSD-705.030, WITH RIP-RAP TREATMENT AS PER OPSD-810.02, TYPE "B" WITH GEOTEXTILE (MIRAFI P-150). 18). ALL CATCH BASIN CONNECTIONS SHALL BE AS PER OPSD-708.01 (RIGID PIPE) AND OPSD-708.03 (FLEXIBLE PIPE).
- 19). ALL CATCH BASINS CONSTRUCTED IN FILL AREAS TO BE SUPPORTED IN 14 MPa. CONCRETE 20). AT ALL CATCH BASIN & CATCH BASIN MANHOLE SAG POINTS INCLUDE FOUIR (4) 10.0m LONG, 100mmø
- PVC SUBDRAINS WITH FILTER CLOTH. CAP ONE END AND CONNECT THE OTHER TO THE CATCH BASIN OR CATCH BASIN MANHOLE.
- 21). ALL SEWER SERVICE CONNECTIONS FOR RIGID PIPE SHALL BE AS PER OPSD-1006.01.
- 22). ALL SEWER SERVICE CONNECTIONS FOR FLEXIBLE PIPE SHALL BE AS PER OPSD-1006.02.
- 23). ALL CONCRETE OUTLETS AS PER OPSD 605.04 WITH ASPHALT SPILLWAY AND RIP-RAP.
- 24). ALL RIP-RAP TREATMENT FOR SEWER AND CULVERT OUTLETS SHALL BE AS PER OPSD-810.01, TYPE "B" WITH GEOTEXTILE (MIRAFI P-150).
- 25). ALL PAVEMENT REINSTATEMENT SHALL BE AS PER OPSD-509.010. FOR UTILITY CUTS, BACKFILL AS PER TOWN STD.
- 26). ALL TESTING OF STORM SERVICES TO BE IN ACCORDANCE WITH ONTARIO PROVINCIAL STANDARD SPECIFICATIONS. 27). CONTRACTOR SHALL PROVIDE COLOUR VIDEO & REPORT OF STORM SEWER UPON COMPLETION TO THE ENGINEER.
- CONTRACTOR SHALL PROVIDE 1 COLOUR VIDEO & REPORT PRIOR TO PAVING CONTRACTOR SHALL PROVIDE 1 COLOUR VIDEO & REPORT UPON COMPLETION OF FINAL PAVING & LANDSCAPING.
- 28). INSULATION SHALL BE PROVIDED ON ALL SEWER(S) WITH LESS THAN 1.22m COVER 29). HEADWALLS SHALL BE AS PER OPSD 804.040, INCLUDE RAILING AS PER OPSD 980.101 AND GRATE AS PER OPSD 804.050

SANITARY

- 1). ALL SANITARY SERVICES AS PER REGION STANDARDS.
- 2). ALL SANITARY SEWERS 200mmø AND GREATER ARE TO BE PVC-SDR 35 (PVC-SDR 28 WITHIN RIGHT-OF-WAY) IN ACCORDANCE WITH CSA-B182.2, CSA-B182.4, ASTM D-3034 AND ASTM F-794 OR LATEST REVISIONS.
- 3). ALL SANITARY SEWERS 150mmø AND LESS ARE TO BE PVC-SDR 28 IN ACCORDANCE WITH CSA-B182.2, ASTM D-2779 AND ASTM D-3034 OR LATEST REVISIONS.
- 4). BEDDING AND COVER FOR PVC SANITARY SEWERS AS PER STD. DWG. 2-3-1.
- 5). THE CONTRACTOR IS TO CAP ALL SANITARY SERVICES 2.0 METRES AWAY FROM THE PROPOSED BUILDING LINES
- UNLESS OTHERWISE NOTED. 6). ALL SANITARY SERVICES TO BUILDINGS SHALL BE AT A MINIMUM SLOPE OF 1.0% AND MAXIMUM SLOPE OF 8.0%.
- 7). SANITARY MANHOLES SHALL BE AS PER STD. DWG. 2-5-3, 2-5-4 AND 2-5-5 AS SPECIFIED. BENCHING TO SPRINGLINE OF PIPE AS PER STD. DWG 2-5-20. FRAME & COVER AS PER STD. DWG. 2-6-1.
- 8). ALL SAFETY PLATFORM AS PER STD. DWG. 2-6-15 MANHOLES > 5.0m DEPTH.
- 9). ALL MANHOLE DROP STRUCTURES SHALL BE AS PER STD. DWG. 2-5-26 (EXT) AND 2-2-27 (INT) AS SPECIFIED.
- 10). ALL MANHOLE ADJUSTMENTS SHALL BE AS PER OPSD-704.010. MAXIMUM OF THREE (3) UNITS AND 300mm HIGH, WHERE EXCEED CAST-IN-PLACE OR PRE-CAST RISER SECTIONS SHALL BE PROVIDED.
- 11). PROVIDE WATER TIGHT COVERS FOR SANITARY MANHOLES LOCATED IN PONDING AREAS.
- 12). ALL SERVICE CONNECTIONS FOR FLEXIBLE PIPE SHALL BE AS PER STD. DWG. 2-5-15.
- 13). ALL TRENCH RESTORATION FOR OPEN CUT UTILITY INSTALLATION UNDER ROADWAYS AS PER STANDARD 2203.03.
- 14). ALL TESTING OF SANITARY SERVICES TO BE IN ACCORDANCE WITH ONTARIO PROVINCIAL STANDARD SPECIFICATIONS.
- 15). CONTRACTOR SHALL PROVIDE COLOUR VIDEO & REPORT OF SANITARY SEWER UPON COMPLETION TO THE ENGINEER. CONTRACTOR SHALL PROVIDE 1 COLOUR VIDEO & REPORT PRIOR TO PAVING
- CONTRACTOR SHALL PROVIDE 1 COLOUR VIDEO & REPORT UPON COMPLETION OF FINAL PAVING & LANDSCAPING. 16). CONTRACTOR SHALL PROVIDE INSULATION FOR SANITARY SEWERS WITH LESS THAN 1.7m OF COVER.
- 17). ALL FITTINGS SHALL BE AS PER ASTM D-3034 AND JOINTS SHALL BE BELL AND SPIGOT WITH RUBBER GASKET.

WATER

- 1). ALL WATER SERVICE AS PER REGION STANDARDS.
- 2). WATERMAIN PIPE TO BE PVC-SDR 18 CL 150 or PVC-SDR 14 CL 200 (AS NOTED) CONFORMING TO AWWA SPECIFICATIONS C 900-75, INCLUDING NO. 8 TRACER WIRE BETWEEN HYDRANTS OR OTHER CONDUCTING APPURTENANCES. PIPE SHALL HAVE A MINIMUM COVER OF 1.7M. ALL WATER MAIN JOINTS TO BE APPROVED PUSH-ON. MECHANICAL OR FLANGE TYPE JOINTS AS REQUIRED FOR PIPE CLASS RATED PRESSURE. CORROSION PROTECTION FOR ALL FITTINGS, VALVES AND HYDRANTS (HYPROTEC OR EQUAL).
- 3). ALL DOMESTIC WATER SERVICES SHALL BE TYPE "K" SOFT COPPER AND INSTALLED AS PER STD. DWG, 1-7-1. 19mm, 25mm, 40mm AND 50mm WATER SERVICES TO CONFIRM TO SECTION 1- WATERMAIN, PAGE 12 - 19
- AS PER DOCUMENTS. 4). BEDDING AND COVER AS PER STD. DWG. 1-5-1.
- 5). ALL WATER MAIN FITTINGS AND APPURTENANCES TO BE SELECTED FROM REGION APPROVED MATERIAL LIST FOR WATER. 6). WATER MAINS SHALL HAVE A MINIMUM VERTICAL SEPARATION OF 0.50m BELOW AND 0.30m ABOVE AND A HORIZONTAL SEPARATION OF 2.5m BETWEEN ANY SEWER OR MANHOLE.
-). CONTRACTOR TO PROVIDE A MINIMUM COVER OF 1.7m FOR ALL PROPOSED WATERMAINS WITHIN THE PROPSED SITE. THE DUAL 750mm REGIONAL WATER MAINS SHALL HAVE A MINIMUM OF 2.0m OF COVER.
- 8). CONTRACTOR TO CONFIRM THE SIZE AND MATERIAL TYPE OF EXISTING WATER SERVICE AND WATER MAIN PRIOR TO CONSTRUCTION AND NOTIFY THE ENGINEER.
- 9). EXISTING WATER MAIN OBVERTS TO BE CONFIRMED ON SITE AT THE TIME OF CONSTRUCTION.
- 10). WATER MAIN AND SERVICES SHALL BE CAPPED 2.0m FROM BUILDING, UNLESS OTHERWISE NOTED.
- 11). ALL TAPPING SLEEVES TO BE STAINLESS STEEL SIMILAR TO MUELLER TYPE, COMPLETE WITH VALVE.
- 12). ALL VALVE AND BOX ASSEMBLIES SHALL BE INSTALLED AS PER STD. DWG. 1-3-8. 13). ALL HYDRANTS SHALL BE INSTALLED AS PER STD. DWG. 1-6-1 AND 1-6-2. ALL HYDRANTS SHALL CONFIRM
- TO SECTION 1- WATERMAIN, PAGE 5 AS PER REGION DOCUMENTS. 14). ALL THRUST BLOCKING SHALL BE AS PER STD. DWG. 1-5-5 (HORIZONTAL) AND STD. DWG. 1-5-4 (VERTICAL).
- 15). FROST COLLARS ARE TO BE PROVIDED ON CURB STOPS AND VALVE BOXES WHEN LOCATED WITHIN THE LIMITS OF THE DRIVEWAY.
- 16). ALL WATER CHAMBERS SHALL BE AS PER STD. DWG. 1-1-4, VALVING SHALL BE AS PER STD. DWG. 1-3-3 (MODIFIED 200mm), VALVING AS SPECIFIED.
- 17). ALL WATER MAIN BLOW-OFF ASSEMBLIES SHALL BE AS PER STD. DWG. 1-7-2 AND 1-7-3.
- 18). ALL TRENCH RESTORATION FOR OPEN CUT UTILITY INSTALLATION UNDER ROADWAYS AS PER STANDARD 2203.03. 19). FLUSHING, SWABBING, AND TESTING OF WATER MAIN AS PER ONTARIO PROVINCIAL STANDARDS AND SPECIFICATIONS.

GENERAL GRADING NOTES:

- 1). THE GRADING PLAN IS TO BE READ WITH THE SITE SERVICES DRAWING AND THE SITE PLAN. FOR BUILDING DETAILS REFER TO THE LATEST REVISION OF THE SITE PLAN AS PER THE ARCHITECT.
- 2). CONTRACTOR TO RESTORE ALL DISTURBED AREAS (I.E. PUBLIC R.O.W., ADJACENT LANDS) WHICH HAVE BEEN DISTURBED DURING CONSTRUCTION TO PREVIOUS OR BETTER CONDITION.
- 3). ALL DRIVEWAY AND GRADING MATERIAL AND CONSTRUCTION METHODS MUST CONFORM TO CURRENT TOWN STANDARDS AND SPECIFICATIONS.
- 4). ALL FILL WITHIN THE SITE TO BE COMPACTED TO A MIN. OF 100% STD. PROCTOR DENSITY. THE SUITABILITY OF ALL FILL MATERIALS ARE TO BE CONFIRMED BY A RECOGNIZED SOILS CONSULTANT TO THE DIRECTOR OF ENGINEERING PRIOR TO INSTALLATION OF ANY ROAD BASE MATERIALS
- 5). LANDSCAPE SHALL NOT ENCROACH ON BOULEVARD NOR SHALL BOULEVARD GRADES BE
- 6). SILT FENCE(S) TO BE INSTALLED AND MAINTAINED TO PREVENT SILT FLOWING ONTO ADJACENT LANDS SILTATION CONTROL METHODS SUCH AS ENVIROFENCE OR APPROVED EQUAL SHALL BE ERECTED PRIOR TO ANY GRADING OR CONSTRUCTION AND SHALL BE MAINTAINED IN GOOD REPAIR THROUGHOUT THE CONSTRUCTION AND GRADING PHASES. THE LOCATION AND ERECTION OF THE SILTATION CONTROL METHODS TO BE APPROVED BY THE TOWN. REFER TO SILT CONTROL DETAIL.
- ANY CHANGES IN GRADES OR CATCH BASINS REQUIRE THE APPROVAL OF THE ODAN/DETECH GROUP INC.
- 8). ALL SODDING OF SIDE SLOPES (DITCHES) SHALL BE AS PER OPSD-218.01.
- 9). ALL LANDSCAPING TO BE INSTALLED AS SOON AS POSSIBLE
- LANDSCAPING TO BE MAINTAINED UNTIL IT IS ESTABLISHED. 10). ALL CONNECTIONS WITH PAVED PORTIONS OF EXISTING ROADS O RE BACKFILLED WITH GRANULAR 'A' MATERIAL OR LATEST
- TOWN SPECIFICATIONS AND COMPACTED TO 100 % SPD. 11). CONSTRUCTION ACCESS SHALL BE CONSTRUCTED WITH A MIN.
- OF 450mm THICK CRUSHED STONE BASE FROM MUNICIPAL CURB OR EDGE OF PAVEMENT TO THE PROPERTY LINE TO THE SATISFACTION OF THE TOWN.
- 12). ALL CURBS ARE TO BE 150mm ABOVE THE PROPOSED GUTTER LINE (G/L) UNLESS NOTED OTHERWISE.
- 13). PAVEMENT GRADE (MIN. 0.5%, MAX. 7%). 14). DRAINAGE SWALES WITH GRADES (MIN. 1%, MAX. 7%).
- 15). SLOPES IN LANDSCAPE AREAS AND ON BERMS SHALL NOT EXCEED 3 HORIZONTAL TO 1 VERTICAL.
- 16). THE PARKING AREAS AND DRIVEWAY HAVE BEEN DESIGNED ACCORDING TO A FROST SUSCEPTIBILITY FACTOR OF 5. THIS FACTOR IS TO BE VERIFIED BY A SOILS CONSULTANT.

CURBING/SIDEWALKS/ASPHALT

- 1). ALL PROPOSED INTERNAL CURBING TO BE BARRIER TYPE AS PER ARCHITECT DETAIL. ALL TOPS OF CURBS TO BE 150mm ABOVE PROPOSED GUTTER LINE, UNLESS OTHERWISE NOTED. 2). PROPOSED CURB AND GUTTER ON TRAVELED ROADWAY AS PER CURRENT TOWN STD.
- 3). ALL REQUIRED CURB CUTTING AT ENTRANCE AND CURB DEPRESSIONS AT SIDEWALK CROSSINGS
- SHALL BE INSTALLED TO THE SATISFACTION OF THE TOWN AND AS PER TOWN DRAWING
- 4). CURB CUTS WITHIN THE PUBLIC R.O.W. TO BE PERFORMED TO THE SATISFACTION OF THE TOWN.
- 5). ALL PROPOSED ROAD CUTS TO BE PERFORMED AND RESTORED TO THE SATISFACTION OF THE TOWN , AND IN ACCORDANCE WITH TOWN STANDARDS & SPECIFICATIONS. 6). CONCRETE SIDEWALK WITHIN PUBLIC R.O.W. AS PER OPSD-310.010 AND OPSD-310.020 (ADJACENT TO CURB).
- ALL RAMPS SHALL BE AS PER OPSD-310.031. ALL SIDEWALKS SHALL BE 30MPa WITH 7% AIR. ALL CONCRETE SIDEWALKS TO BE MINIMUM 150mm THICK AT RESIDENTIAL DRIVEWAYS AND 200mm THICK THROUGH COMMERCIAL/INDUSTRIAL ENTRANCES HAVE 150mm GRANULAR 'A' BASE, COMPACTED TO 100% SPD.
- 7). ALL CONCRETE CURB FROM EXISTING ROAD CURB TO STREET LINE SHALL BE AS PER TOWN STD. ALL CONCRETE CURB HEIGHTS SHALL BE 150mm UNLESS OTHERWISE NOTED. DRIVEWAY CURB TO BE DISCONTINUOUS AT SIDEWALK AND TAPERED BACK 450mm MINIMUM WHERE SIDEWALK CONTINUES THROUGH THE ENTRANCE AS PER OPSD-350.010.
- 8). APPROPRIATE CONSTRUCTION DETAILS SHOULD BE PROVIDED FOR RETAINING WALLS HIGHER THAN 1.0m. DETAILS SHALL BE DESIGNED AND SEALED BY A PROFESSIONAL ENGINEER UPON
- APPROVAL. HANDRAIL IS REQUIRED WHEN HEIGHT EXCEEDS 0.60m AND SHALL BE AS PER OPSD-980.101. 11). ALL CONCRETE TOE WALLS SHALL BE AS PER OPSD 3120.100 TYPE
- 12). ALL DEAD END BARRICADES SHALL BE AS PER OPSD-973.130.
- 13). ALL TEMPORARY STEEL BEAM GUIDE RAILS SHALL BE AS PER OPSD-911.140
- 14). ALL SECTIONAL PRE-CAST CONCRETE CURBING AS PER OPSD-603.020.
- 15). PERIMETER SUBDRAINS SHOULD BE PROVIDED AROUND PARKING AREAS AND ALONG DRIVEWAYS. 16). ALL CONCRETE LOADING APRONS SHALL BE AS PER STRUCTURAL DRAWINGS & DETAILS WITH THE

REGION OF PEEL NOTES:

- 1). ALL MATERIALS AND CONSTRUCTION METHODS MUST CORRESPOND TO THE CURRENT PEEL PUBLIC
- 2). WATERMAIN AND / OR WATER SERVICE MATERIALS 100 mm(4") AND LARGER MUST BE PVC-SDR 18 CONFORMING TO AWWA SPECIFICATIONS C 900-75. SIZE 50mm (2") AND SMALLER MUST BE TYPE "K" SOFT COPPER.
- 3). WATERMAINS AND / OR WATER SERIVCES ARE TO HAVE A MINIMUM COVER OF 1.7m (5'6") WITH A MINIMUM HORIZONTAL SPACING OF 1.2m(4") FROM THEMSELVES AND ALL OTHER UTILITIES. AS
- THE DUAL 750mm REGIONAL WATER MAINS SHALL HAVE A MINIMUM OF 2.0m OF COVER. 4). PROVISIONS FOR FLUSHING WATER LINE PRIOR TO TESTING, ETC. MUST BE PROVIDED WITH AT LEAST A 50mm(2") OUTLET ON 100mm (4') 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
- PIPED TO ALLOW THE WATER TO DRAIN ONTO A PARKING LOT OR DOWN A DRAIN. ON FIRE LINES FLUSHING OUTLET TO BE 100mm (4") DIAMETER MINIMUM ON A HYDRANT.
- 5). ALL CURB STOPS TO BE 3.0m (10') 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 (2') AND
- 0.9m (3') AND TO HAVE A PUMPER NOZZLE. 7). WATERMAINS TO BE INSTALLED TO GRADES AS SHOWN ON APPROVAL 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 (12") OVER / 0.5M (20")

INDEPENDENT PRESSURE TESTING AND CHLORINATING FROM EXISTING SYSTEMS.

- UNDER SEWERS AND ALL OTHER OTHER UTILITIES WHEN CROSSING 9). ALL PROPOSED WATER PIPING MUST BE ISOLATED FROM EXISTING LINES IN ORDER TO ALLOW
- 10). ALL LIVE TAPPING AND OPERATION OF REGION WATER VALVES SHALL BE ARRANGED THROUGH THE REGIONAL INSPECTOR ASSIGNED BY CONTACTING 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 O INSPECTION BY THE CONCERNED UTILITY. THIS INSPECTION WILL BE FOR THE DURATION OF THE CONSTRUCTION, WITH
- 14). ALL VALVES 300mm DIAMETER AND SMALLER SHALL BE EQUIPPED WITH VALVE BOXES AND RESTRAINED AS PER STD. DWG. 1-3-3A AND VALVE AND FITTINGS WRAPPED IN CORROSION PROTECTION TAPE.

THE CONTRACTOR RESPONSIBLE FOR ALL COSTS ARISING FROM SUCH INSPECTIONS.

TOWN OF CALEDON - GRADING AND DRAINAGE NOTES

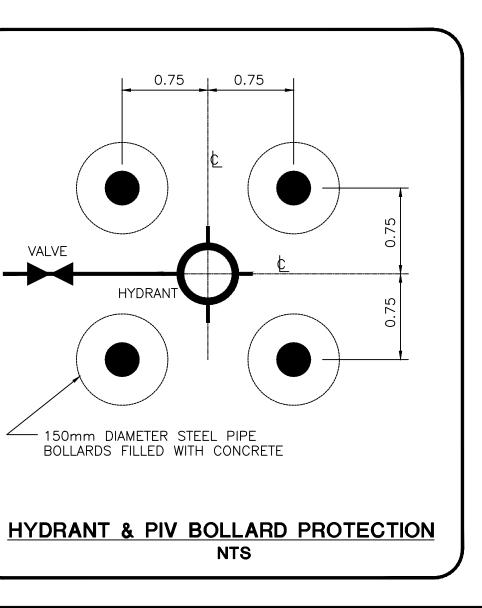
- THE FOLLOWING NOTES ARE TO APPEAR ON THE GRADING AND DRAINAGE PLAN:
- 1. CONSTRUCTION FOR THIS PROJECT TO COMPLY WITH THE MOST CURRENT VERSION OF THE DEVELOPMENT STANDARDS, POLICIES AND GUIDELINES, PREPARED BY THE TOWN OF CALEDON, PUBLIC WORKS AND ENGINEERING DEPARTMENT AND THE ONTARIO PROVINCIAL STANDARDS AND SPECIFICATIONS
- 2. ALL PROPOSED CONSTRUCTION SHALL BE CARRIED OUT IN ACCORDANCE WITH THE REQUIREMENTS OF THE OCCUPATIONAL HEALTH AND SAFETY ACT AND REGULATIONS FOR CONSTRUCTION PROJECTS
- 3. WITHIN A MINIMUM OF FORTY-EIGHT HOURS PRIOR TO COMMENCING CONSTRUCTION WITHIN THE MUNICIPAL RIGHT-OF-WAY, THE CONTRACTOR MUST CONTACT THE FOLLOWING: THE TOWN OF CALEDON PUBLIC WORKS AND ENGINEERING DEPARTMENT 905.584,2272 THE REGION OF PEEL 905.791.7800 ENBRIDGE CONSUMERS GAS 905.758.7924 HYDRO ONE 519.941.1211 BELL CANADA 416.296.6929
- 4. ALL DRAINAGE TO BE SELF-CONTAINED AND DISCHARGED TO A LOCATION APPROVED BY THE PUBLIC
- 5. SEDIMENT CONTROL DEVICES ARE TO BE INSTALLED PRIOR TO ANY CONSTRUCTION ON THE SITE AND SHALL BE INSPECTED AND MAINTAINED THROUGHOUT THE CONSTRUCTION PERIOD TO THE SATISFACTION
- 6. A MINIMUM OF 1.5M CLEARANCE IS TO BE PROVIDED FROM THE LIMITS OF ALL SIDEWALKS AND DRIVEWAYS TO EXISTING UTILITY STRUCTURES WITHIN THE MUNICIPAL RIGHT-OF-WAY. IF THIS CLEARANCE IS NOT MAINTAINED, THE STRUCTURES SHALL BE RELOCATED AT THE APPLICANT'S EXPENSE.
- 7. STREET CURBS ARE TO BE CONTINUOUS WITHIN THE PROPOSED ENTRANCE.

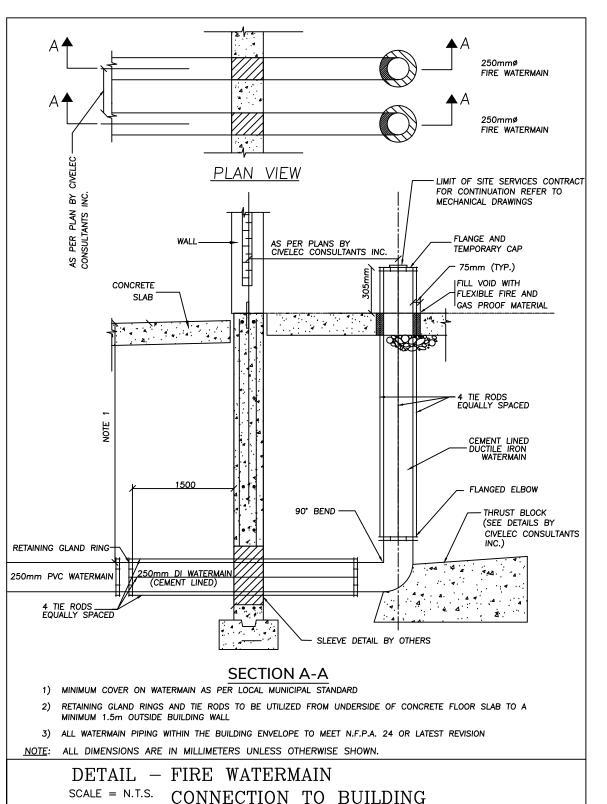
OF THE TOWN OF CALEDON AND THE APPLICABLE CONSERVATION AUTHORITY.

- 8. ANY CHANGES TO GRADES OR SERVICING FROM THE ORIGINALLY APPROVED SITE PLAN MUST BE APPROVED BY THE TOWN OF CALEDON PUBLIC WORKS AND ENGINEERING DEPARTMENT
- 9. STRUCTURAL DESIGN OF THE FIRE ROUTE IS REQUIRED TO SUPPORT AN 18-TON VEHICLE. AS SUCH THE DRAWING IS TO SHOW AREAS OF HEAVY ASPHALT AND LIGHT ASPHALT AND IS TO PROVIDE
- 10. ALL BOULEVARDS TO BE RESTORED WITH 150MM MINIMUM OF TOPSOIL AND SOD TO THE SATISFACTION THE TOWN OF CALEDON PUBLIC WORKS AND ENGINEERING DEPARTMENT
- 11. THE MINIMUM PAVEMENT DESIGN FOR THE ASPHALT DRIVEWAY APRON WITHIN THE MUNICIPAL ROAD ALLOWANCE SHALL BE AS FOLLOWS:
- 50mm HL8 ASPHALT 150mm GRANULAR 'A 300mm GRANULAR 'B'

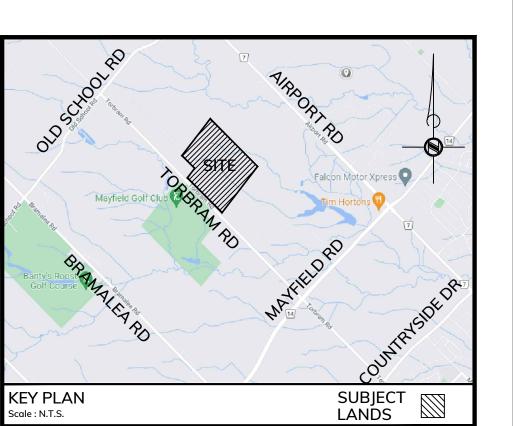
ROGERS CABLE 905.897.3914

12. SERVICE CONNECTION BACKFILL TO BE DISCUSSED WITH THE TOWN OF CALEDON.





REFER TO DRAWINGS BY CIVELEC CONSULTANTS INC. FOR FURTHER DETAILS



NOTES: THE POSITION OF POLE LINES, CONDUITS, WATERMAINS, SEWERS AND UNDERGROUND

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PROPOSED BUILDINGS. THE APPROVAL OF THIS PLAN DOES NOT EXEMPT THE OWNER'S CONTRACTOR FROM OBTAINING, BUT NOT LIMITED TO THE FOLLOWING PERMITS: ROAD CUT, SEWER PERMITS, RELOCATION OF SERVICES, ENCROACHMENT AGREEMENTS, APPROACH APPROVAL PERMITS,

EXISTING TOPOGRAPHICAL INFORMATION SUPPLIED BY YOUNG & YOUNG SURVEYING

BENCH MARK:

-) ELEVATIONS HEREON ARE GEODETIC IN ORIGIN AND WERE DERIVED FROM GPS OBSERVATIONS USING THE "TOPNET" GPS NETWORK AND ARE REFERRED TO THE CGVD-1928: 1978 DATUM.
- 2) ELEVATIONS HEREON ARE GEODETIC IN ORIGIN AND WERE DERIVED FROM CITY OF BRAMPTON MONUMENT NO. 042200365 (NAD83 ADJUSTMENT) HAVING A PUBLISHED ELEVATION OF 242.135 m.
- LOCATED 72.80M SOUTH OF CENTRELINE OF MAYFIELD ROAD AND 19.81M EAST OF CENTRELINE OF TORBRAM ROAD. A CUT CROSS HAVING ELEVATION 242.51 m WAS SET ON THE NORTHEAST CORNER OF

THE INTERCETION BETWEEN MAYFILED ROAD AND TORBRAM ROAD. **BEARING NOTE:**

BEARINGS ARE UTM GRID, DERIVED FROM GPS OBSERVATION USING THE "TOPNET"

GPS NETWORK OBSERVATIONS, UTM ZONE 17, NAD83 (CSRS) (1997.0). METRIC NOTE:

DISTANCES AND ELEVATIONS ON THIS PLAN ARE TYPICALLY SHOWN IN METRES AND

CAN BE CONV	/ERTED TO FEET BY DIVIDING BY 0.3048.	•	
2.	ISSUED FOR SPA	JULY 15/22	M.E.H
1.	ISSUED FOR REVIEW & COORDINATION	JUNE 22/22	M.E.H
NO.	REVISIONS	DATE	BY
SCALE(S):		-	

DRAWING TITLE:

PROIECT:

NOTES AND DETAILS

TULLAMORE LANDS

PROPOSED INDUSTRIAL DEVELOPMENT

TULLAMORE LANDS CALEDON, ONTARIO



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М.Н.Н.



ENGINEER

RAWN BY: DATE: Z.Z. SEP 2021 HECKED BY: RAWING No. PROVED BY 10 of 13