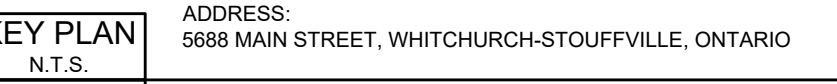


1. ALL WORK SHALL BE COMPLETED IN ACCORDANCE WITH THE CURRENT 'OCCUPATIONAL HEALTH AND SAFETY ACT AND REGULATIONS FOR CONSTRUCTION PROJECTS'. THE GENERAL CONTRACTOR SHALL BE DEEMED TO BE AWARE OF THE CURRENT REGULATIONS.
2. ALL TEMPORARY TRAFFIC CONTROL AND SIGNAGE DURING CONSTRUCTION SHALL BE IN ACCORDANCE WITH CURRENT ONTARIO TRAFFIC MANUAL BOOK 7: TEMPORARY CONDITIONS FIELD EDITION.
3. ALL THE CONSTRUCTION WORK FOR THIS PROJECT SHALL COMPLY WITH THE STANDARD DRAWINGS AND SPECIFICATIONS OF THE CITY, THE REGION AND THE ONTARIO PROVINCIAL STANDARDS AND SPECIFICATIONS.
4. 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.
5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING 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 UTILITIES LOCATION SHALL BE THE CONTRACTOR'S RESPONSIBILITY. ANY CONFLICTS PRIOR TO CONSTRUCTION WILL BE AT THE CONTRACTORS EXPENSE.
6. PRIOR TO COMMENCING ANY WORK WITHIN THE MUNICIPAL RIGHT-OF-WAY, THE CONTRACTOR OR DEVELOPER OR CONSULTANT WILL OBTAIN ALL NECESSARY ROAD OCCUPANCY PERMITS FROM THE CITY'S RIGHT-OF-WAY DEPARTMENT. PERMITS WILL BE OBTAINED 48 HOURS PRIOR TO COMMENCING ANY WORKS WITHIN THE MUNICIPAL ROAD ALLOW.
7. ALL WORK TO BE DESIGNED AND COMPLETED AS PER OPS, OPSD, AND MTO.
8. ALL WORK SHALL BE UNDERTAKEN IN ACCORDANCE WITH THE CITY'S STANDARD SPECIFICATIONS. ALL WORK SHALL BE UNDERTAKEN UNLESS OTHERWISE SPECIFIED IN WRITTEN AGREEMENT WITH THE ADJACENT PROPERTY OWNER IS OBTAINED AND SUBMITTED IN A FORMAT ACCEPTABLE TO THE CITY.

1. WATERMAIN SHALL BE POLYVINYL CHLORIDE (PVC) CLASS 150 DR-18 PIPE MANUFACTURED TO AWWA C900 AND C914. C914 SHALL BE GALVANIZED BELL END (C/C) SHALL ALLOW SLOPE CONCEPT TRACER WIRE.
2. WATERMAIN SHALL BE 12" MINIMUM DRAINAGE CLEARANCE TO THE TOP OF THE MAIN AND 90° SEWERS AND ALL OTHER UTILITIES WHEN CROSSING. ALL WATERMAINS AND SERVICES SHALL HAVE A 1.80m MINIMUM COVER.
3. BEDDING FOR WATERMAINS SHALL BE AS PER OPSD 802.030.
4. COVER REQUIRED ON WATERMAIN IS 1.8m MINIMUM.
5. ALL WATERMAIN HORIZONTAL AND VERTICAL BENDS, JOINTS AND PLUGS TO BE MECHANICALLY RESTRAINED. THRUST BLOCKS/MECHANICAL RESTRAINTS MUST BE INSTALLED ON ALL WATERMAIN BENDS, TEES, AND PLUGS AS PER LOCAL MUNICIPAL STANDARDS.
6. ALL WATERMAIN STUDS SHALL BE TESTED WITH A PLUG AND 50mm BLOW OFF UNLESS OTHERWISE NOTED.
7. HYDRANT AND VALVE TO BE AS PER OPSD 1105.010.
8. ALL HYDRANT FLANGE ELEVATIONS TO BE INSTALLED 0.15m ABOVE PROPOSED FINISHED GRADE AT HYDRANT.
9. BUILDING SERVICE VENTS TO BE 3.0m OF THE FACE OF THE BUILDING UNLESS OTHERWISE NOTED AND MUST BE 1.8m MINIMUM ABOVE FINISHED GRADE.
10. 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 MAIN. MINIMUM FIRE FIGHTING FLUSHING POINTS SHALL BE 100mm DIAMETER MINIMUM OR A HYDRANT. FLUSHING POINTS MUST BE HOSED OR PIPIED TO ALLOW THE WATER TO DRAIN.
11. ALL WATERMAINS SHALL BE HYDROSTATICALLY TESTED IN ACCORDANCE WITH LOCAL MUNICIPAL AND AWWA C900 STANDARDS. UNLESS OTHERWISE DIRECTED, PROVISIONS FOR FLUSHING WATER LINE PRIOR TO TESTING, ETC. MUST BE PROVIDED.
12. ALL PROPOSED WATER PIPING MUST BE ISOLATED FROM EXISTING MAINS IN ORDER TO ALLOW INDEPENDENT PRESSURE TESTING AND CHLORINATION.
13. BOTH TRUNK AND DOMESTIC WATER SERVICES MUST COMPLY WITH THE CURRENT BUILDING CODE ACT, THE CURRENT WATER SUPPLY BY-LAW, CHAPTER 851 AND CASH B-64 SERIES STANDARDS.

1. MANHOLES SHALL BE AS PER OSDP 701.010 AND OSDP 701.011; FRAMES AND COVERS SHALL BE AS PER OSDP 401.100. SAFETY PLATFORMS TO BE INSTALLED WHERE DEPTH EXCEEDS 5.0m.
2. MAIN LINE PIPES SHALL BE PER SDR-35 C.S.A B182-250 CERTIFIED ASTM D3004-04, F679-93. SERVICE CONNECTION PIPING TO BE AS PER SDR-35 C.S.A B182-250.
3. SINGLE CATCHBASIN SHALL BE AS PER OSDP 705.010, WITH FRAMES AND COVERS AS PER OSDP 400.020. DOUBLE CATCHBASIN SHALL BE AS PER OSDP 705.020.
4. ALL STORM PIPES SHALL BE PER SDR-35 C.S.A B182-250 AS PER OSDP 802.030. P.V.PE SEWER BEDDING SHALL BE CLASS "B" AS PER OSDP 802.030 TO TOP OF SEWER WITH A MINIMUM 300mm SAND COVER OVER PIPE NATIVE BEDDING TO BE COMPACTED TO A MIN. 98% STANDARD PROCTOR DENSITY.
5. ALL STORM PIPES SHALL BE PER SDR-35 C.S.A B182-250 AS PER OSDP 802.030 OR APPROVED EQUIVALENT. ALL STORM SEWER PIPES 150mm DR. AND LARGER SHALL BE CONCRETE AND ALSO TO C.S.A SPECIFICATIONS A257.2 REINFORCED CLASSES AS SPECIFIED (65-D, 100-D, 140-D) OR LATEST AMENDMENT UNLESS OTHERWISE SPECIFIED.
6. ALL SANITARY P.VP SEWER PIPES SHALL BE SDR-35 EQUAL C.S.A SPECIFICATIONS B182-M1990 OR LATEST AMENDMENT UNLESS OTHERWISE NOTED.
7. SANITARY SERVICE CONNECTIONS SHALL BE SINGLE, 150mm DR MINIMUM, P.VP CLASS DR 28 INSTALLED AT 2 % AND 150mm DR EXCEPT WHEN FOR 150mm RESIDENTIAL DWELLINGS.
8. SANITARY MAINTENANCE HOLE SHALL HAVE WATERTIGHT FRAME AND COVER IN PONDING AREAS AS PER OSDP 401.030
9. NON-REINFORCED CONCRETE PIPE 150mm TO 250mm SHALL BE AS PER C.S.A A257-140 CLASS 3, HEIGHT OF FILL TO BE VERIFIED USING OSDP TABLES 807.000. BEDDING FOR RIGID PIPE SHALL BE CLASS B AS PER OSDP 802.030, 802.031, 802.032 OR 802.033
10. BEDDING FOR RIGID PIPE SHALL BE CLASS B AS PER OSDP 802.030, 802.031, 802.032 OR 802.033
11. ALL MANHOLES EXCEPT WHEN FOR 150mm RESIDENTIAL DWELLINGS SHALL BE CONCRETE AND ALSO TO C.S.A SPECIFICATIONS A257.2 REINFORCED CLASSES AS SPECIFIED (65-D, 100-D, 140-D) OR LATEST AMENDMENT UNLESS OTHERWISE SPECIFIED.
12. ALL CATCH BASINS AND CATCH BASIN MANHOLES ARE TO INCLUDE SUBDRAIN TREATMENT AS PER DETAIL ON DRAWING D1.
13. 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 LEAD.
14. UNLESS OTHERWISE NOTED, CATCHBASIN LEADS SHALL BE 250mm DR AT MINIMUM 1.00% SLOPE.
15. ALL STORM PIPES SHALL BE PER SDR-35 C.S.A B182-250 AS PER OSDP 802.030. PROVIDE RECORD SEWERS INCLUDING PICTORIAL REPORT, TWO (2) CD COPIES AND ONE (1) VIDEO TAPE IN A FORMAT SATISFACTORY TO THE ENGINEER. ALL SEWERS ARE TO BE FLUSHED PRIOR TO CAMERA INSPECTION.
16. THE CONTRACTOR SHALL CONTACT THE MUNICIPALITY AT LEAST 48 HOURS PRIOR TO CONNECTING TO THE EXISTING SANITARY AND STORM MAINS.
17. SERVICE CONNECTIONS AND UTILITY CUTS TO BE BACKFILLED WITH UNSHRINKABLE FILL.



200.00 0.5%

BENCHMARK: ELEVATIONS SHOWN HEREON ARE GEODETIC AND ARE REFERRED TO THE TOWN WHITCHURCH-STOUFFVILLE BENCHMARK No.78848 HAVING AN ELEVATION OF 251 M. LOCATED 1 1/2 STY ALUMINUM SIDING HOUSE ON THE SE COR. OF THE JUNCTION HWY #48 AND HWY #47 AT RINGWOOD, 96.3 M E OF CL. OF HWY #48, AND 22.2 M S OF HWY #47. TABLE SET HORIZONTALLY IN W FACE OF CONCR FOUNDATION, 3.5 M NW COR. 69 CM BELOW ALUMINUM SIDING AND 30 CM ABOVE GROUND LEVEL.

ZONE 10, NAD83 (CSRS) COORDINATES TO URBAN ACCURACY PER SEC. 14 (2) OF O.R.G. 216/10

DRAWING NOTES | NOT FOR CONSTRUCTION

1. THIS DRAWING IS THE EXCLUSIVE PROPERTY OF TYLIN. THE REPRODUCTION OF ANY PART WITHOUT PRIOR WRITTEN CONSENT FROM TYLIN IS STRICTLY PROHIBITED.
2. THIS DRAWING IS TO BE READ AND UNDERSTOOD IN CONJUNCTION WITH ALL OTHER DRAWINGS AND DOCUMENTS APPLICABLE TO THIS PROJECT.
3. THIS DRAWING IS NOT TO BE ISSUED FOR CONSTRUCTION UNTIL ALL REQUIRED PERMITS HAVE BEEN ISSUED.
4. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS, ELEVATIONS, INVERTS AND DATA ON SITE AND REPORT ANY DISCREPANCIES OR OMISSIONS TO TYLIN 48 HOURS PRIOR TO ANY CONSTRUCTION.

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SERVICING PLAN

SCALE: 1:250	5m	PROJECT #	100319
DATE: DEC 2023		DRAWING #	S1
DRAWN BY: TF			
DESIGNED BY: TF			
CHECKED BY: TF			