GENERAL NOTES

1. THE NOTES ON THIS SHEET APPLY TO ALL WORKS UNDER THIS CONTRACT UNLESS OTHERWISE NOTED ON THE PLAN AND PROFILE DRAWINGS AND/OR SPECIFIC DETAIL DRAWINGS.
2. ALL MATERIALS ARE TO COMPLY WITH THE MANUFACTURER'S SPECIFICATIONS PER APPROVED PRODUCTS AS LISTED IN SCHEDULE 'B' OF THE TOWN'S GUIDELINES.
3. THE STANDARD DRAWINGS OF THE TOWN OF WHITCHURCH–STOUFFVILLE, ONTARIO PROVINCIAL STANDARDS AND SPECIFICATIONS (OPSS) AND THE ONTARIO PROVINCIAL STANDARD DRAWINGS (OPSD) CONSTITUTE PART OF THE PLANS OF THIS CONTRACT. ORDER OF PRECEDENCE OF STANDARD DRAWINGS IS FIRSTLY TOWN OF WHITCHURCH–STOUFFVILLE STANDARD DRAWINGS, AND SECONDLY ONTARIO PROVINCIAL STANDARD DRAWINGS.
4. IT IS THE CONTRACTOR'S RESPONSIBILITY TO OBTAIN ALL RELEVANT STANDARD DRAWINGS AND SPECIFICATIONS AS REQUIRED FOR THIS CONTRACT.
5. UNLESS OTHERWISE SPECIFIED, ALL DIMENSIONS SHOWN ON THE ENGINEERING DRAWINGS ARE IN METRES OR MILLIMETERS.
6. ALL DIMENSIONS AND ELEVATIONS SHALL BE CHECKED AND VERIFIED IN THE FIELD BY THE CONTRACTOR PRIOR TO ANY CONSTRUCTION AND ANY DISCREPANCIES SHALL BE REPORTED IMMEDIATELY TO THE ENGINEER.
7. EXISTING SERVICES AND UTILITIES SHOWN ON THESE CONTRACT DRAWINGS ARE BASED ON THE BEST INFORMATION AVAILABLE AND THEIR LOCATIONS ARE NOT GUARANTEED. THE CONTRACTOR SHALL INTERPRET THIS INFORMATION AS HE WISHES WITH THE UNDERSTANDING THAT THE OWNER DISCLAIMS ALL RESPONSIBILITY FOR ITS ACCURACY AND/OR SUFFICIENCY.
8. ALL PRIMARY HYDRO, TELECOMMUNICATION CABLE, GAS LINES AND CABLE T.V. SHALL BE PLACED UNDERGROUND IN LOCATIONS SHOWN ON THE ROAD SECTIONS LISTED IN THE STANDARD DRAWINGS.
9. ALL SILT CONTROL AND EROSION PROTECTION DEVICES ARE TO BE IN PLACE PRIOR TO THE COMMENCEMENT OF CONSTRUCTION AND SHALL REMAIN IN PLACE AND BE MAINTAINED BY THE CONTRACTOR UNTIL CONSTRUCTION IS COMPLETE AND THE GROUND COVER HAS ESTABLISHED GROWTH, SUBJECT TO APPROVAL BY THE TOWN.
10. NATIVE MATERIAL, SUITABLE FOR BACKFILL, SHALL BE COMPACTED TO 95% STANDARD PROCTOR MAXIMUM DRY DENSITY.
11. GRANULAR MATERIAL USED FOR BACKFILL, SHALL BE PLACED IN LAYERS 150mm IN DEPTH MAXIMUM AND COMPACTED TO 100% STANDARD PROCTOR MAXIMUM DRY DENSITY.
12. ALL DISTURBED AREAS ARE TO BE REINSTATED TO THEIR ORIGINAL CONDITION OR BETTER, AS DETERMINED BY THE ENGINEER. ALL GRASS AND VEGETATION COVERED AREAS SHALL BE RESTORED BY PLACING 300mm OF APPROVED TOPSOIL AND NURSERY SOD.
13. ALL FENCING SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE TOWN STANDARD DRAWINGS.
14. THE STREET LIGHTING SYSTEM SHALL BE DESIGNED BY A QUALIFIED CONSULTING ENGINEER IN ACCORDANCE WITH THE ILLUMINATION ENGINEERING SOCIETY OF NORTH AMERICA (IESNA) LATEST EDITION STANDARDS AND APPROVED BY THE TOWN. STREET LIGHTING SYSTEMS FOR ROADWAYS IN THE TOWN OF WHITCHURCH–STOUFFVILLE SHALL MEET THE REQUIREMENTS OF HYDRO ONE.

PAVEMENT & MUNICIPAL ACCESS

1. THE ROAD PAVEMENT MINIMUM STRUCTURE SHALL CONSIST OF THE FOLLOWING AND WILL BE CONFIRMED BY A SOILS CONSULTANT AND APPROVED BY THE TOWN:
   - 40mm OF HL3 SURFACE COURSE ASPHALT
   - 50mm OF HL8 BINDER COURSE ASPHALT
   - 150mm OF 19mm CRUSHER RUN LIMESTONE or EQUIVALENT
   - 350mm OF 50mm CRUSHER RUN LIMESTONE or EQUIVALENT *

   * RECYCLED CONCRETE MAY BE SUBSTITUTED UPON WRITTEN APPROVAL OF TOWN

   BOULEVARDS: – 450mm TOPSOIL & SOD
   DITCHES: – 300mm TOPSOIL & SOD
2. NATIVE SUBGRADE TO BE COMPACTED TO MINIMUM 95% STANDARD PROCTOR MAXIMUM DRY DENSITY AND SHALL BE PROOF ROLLED. NATIVE SUBGRADE SHALL HAVE A CROSS–FALL OF 3% AND THE MATERIAL SHALL BE APPROVED BY A SOILS CONSULTANT AND IS SUBJECT TO APPROVAL BY THE TOWN ENGINEER.
3. CONCRETE BARRIER CURBS CONFORMING TO OPSD 600.11 SHALL BE USED. CONCRETE STRENGTH IS TO BE A MINIMUM OF 30MPa AT 28 DAYS WITH 7% ± 1.5% AIR ENTRAINMENT.
4. DRIVEWAY DEPRESSIONS SHALL BE FORMED IN THE CURB AS PER OPSD 351.010.
5. SIDEWALK CONSTRUCTION SHALL COMPLY WITH OPSD M310.010 (MODIFIED) AND SHALL BE CONSTRUCTED ON 100mm OF GRANULAR 'A' ON POLYETHYLENE BARRIER AND A COMPACTED FOUNDATION. CONCRETE STRENGTH IS TO BE A MINIMUM OF 30MPa AT 28 DAYS WITH 7% ± 1.5% AIR ENTRAINMENT. SIDEWALK AT DRIVEWAYS TO BE 150mm THICK.
6. RESIDENTIAL DRIVEWAYS TO BE CONSTRUCTED WITH A MINIMUM OF 150mm GRANULAR 'A', AND BE PAVED WITH A MINIMUM OF 50mm OF HL8 BASE AND 25mm HL3A TOP ASPHALT FROM STREET TO GARAGE/DWELLING, OR AS APPROVED BY THE TOWN
7. ALL ACCESS DRIVEWAYS SHALL BE LOCATED A MINIMUM OF 1.0M FROM LIGHT POLES, HYDRO TRANSFORMERS, CATCHBASINS, HYDRANTS, WATERMAIN VALVES, BELL MANHOLES, BELL AND CABLE TV JUNCTION BOXES, WATER SERVICE VALVE BOXES, SIDE LOT LINES AND OTHER DRIVEWAYS. WHERE FRONTAGE LIMITATIONS INTERFERE WITH STANDARD LOCATIONS, SITE SPECIFIC SOLUTIONS SHALL BE DETAILED IN THE PLAN AND PROFILE AND LOT GRADING PLANS.
8. MINIMUM SLOPES ON DRIVEWAYS SHALL BE 1.0% AND MAXIMUM SLOPES SHALL BE 6.0%
9. ROAD OCCUPANCY PERMIT IS REQUIRED FROM THE TOWN WORKS DEPARTMENT PRIOR TO THE COMMENCEMENT OF ANY WORK ON ANY ROAD THAT IS EXTERNAL TO THE PLAN. A MINIMUM 48 HOUR NOTICE IS REQUIRED.

STORM SEWERS

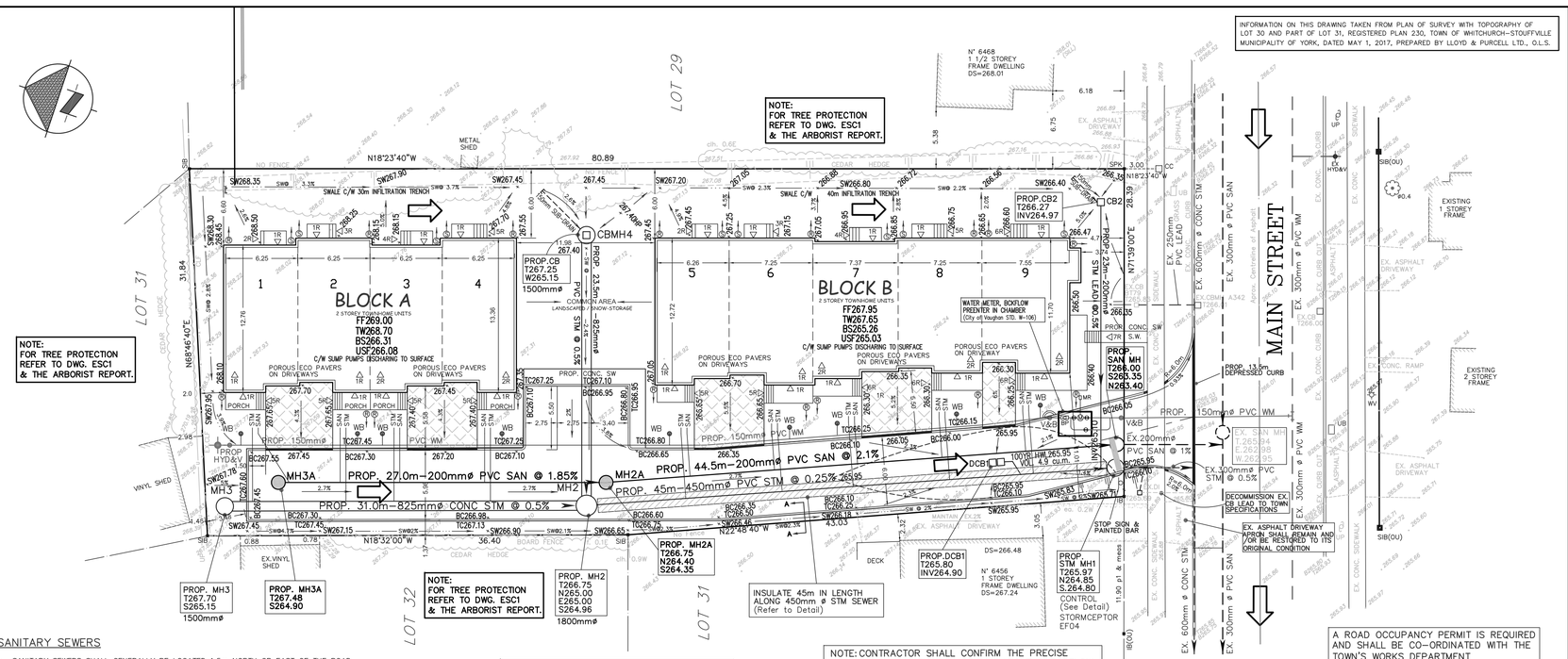
1. STORM SEWER TO BE LOCATED TYPICALLY 1.5m TO THE WEST OR SOUTH OF CENTRELINE OF THE ROAD.
2. PIPE SHALL CONFORM TO THE REQUIREMENTS SHOWN BELOW:
   a) NON–REINFORCED CONCRETE PIPE, CSA STANDARD A257.1 CLASS 1,2,3.
   b) REINFORCED CONCRETE PIPE, CSA STANDARD A257,2 STRENGTH CLASS 50–D, 65–D, 100–D AND 140–D.
   c) PVC PIPE, CSA STANDARD B182.1 AND B182.4 (SDR35).
3. ALL STORM SEWERS OVER 450mm DIAMETER SHALL BE CONSTRUCTED WITH REINFORCED CONCRETE PIPE.
4. SEWERS SHALL BE CONSTRUCTED WITH BEDDING AS PER OPSD 802.010, AND 802.030, UNLESS OTHERWISE SPECIFIED BY A GEOTECHNICAL CONSULTANT AND APPROVED BY THE TOWN.
5. TRENCH BACKFILL SHOULD BE PLACED IN 200mm LIFTS AND COMPACTED TO 95% SPMDD.
6. ALL STORM SEWER MANHOLES TO BE ACCORDING TO TOWN STANDARDS AND BE BENCHED TO OBVERT IN ACCORDANCE WITH OPSD 701.021.
7. DROP STRUCTURES SHALL CONFORM WITH OPSD 1003.010 AND 1003.020.
8. MANHOLE TOPS ARE TO BE SET TO BASE COURSE ASPHALT GRADE AND THEN ADJUSTED TO FINAL GRADE. FRAME AND COVER TO BE PER OPSD M401.010, TYPE 'B', GRADE AND CROSSFALL ADJUSTMENT SHALL BE MADE USING PRODUCTS SPECIFICALLY MANUFACTURED FOR THAT PURPOSE. MODULAR ADJUSTMENT RINGS ARE TO BE USED TO ADJUST THE MANHOLE TO FINAL GRADE.
9. CATCHBASINS MUST BE OF THE PRECAST TYPE AS SHOWN ON THE OPSD DRAWINGS 705.010 OR 705.020. DOUBLE CATCHBASINS ARE REQUIRED IN VALLEYS.
10. SINGLE CATCHBASIN LEADS SHALL BE PVC SDR35 PIPE WITH MINIMUM SLOPE OF 1% AND MINIMUM SIZES AS FOLLOWS:
    – SINGLE CATCHBASIN 250mm DIAMETER
    – DOUBLE CATCHBASIN 300mm DIAMETER
    – REAR LOT CATCHBASIN 250mm DIAMETER
11. THE FRAME AND GRATE FOR CATCHBASINS SHALL BE OPSD 400.010. CATCHBASIN GRATES ARE TO BE RAMPED USING HOT–MIX ASPHALT. CATCHBASINS AT LOW POINTS SHALL BE SET TO BASE ASPHALT AND ADJUSTED TO SURFACE COURSE.
12. REAR LOT CATCHBASIN LEADS TO BE CONCRETE ENCASED FROM THE STREET LINE TO THE CATCHBASIN, PER STANDARD DETAIL WS–401. FRAME AND GRATE TO BE OPSD 400.010.
13. WHERE CATCHBASINS ARE CONNECTED DIRECTLY TO SEWERS, PRE–MANUFACTURED TEES SHALL BE USED.
14. PARTIAL BULK HEADS ARE REQUIRED AT MANHOLE CONNECTIONS TO EXISTING SEWERS.
15. MANHOLE STEPS ARE TO BE SOLID, RECTANGULAR ALUMINUM PER OPSD 405.020.
16. ROOF LEADERS SHALL DISCHARGE TO CONCRETE SPLASH PADS, UNLESS NOTED OTHERWISE.

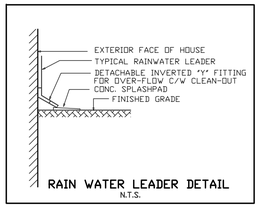
WATERMAINS

1. WATERMAIN SHALL BE LOCATED AS SHOWN ON THE STANDARD TOWN ROADWAY CROSS SECTIONS. THIS LOCATION SHALL NORMALLY BE ON THE NORTH AND EAST SIDE OF THE STREET. WATERMAIN SHALL BE OFFSET FROM STREET LINE AS PER STANDARD ROAD CROSS SECTION.
2. ALL WATERMAINS SHALL BE CONSTRUCTED IN ACCORDANCE WITH OPSS 441. PIPE MATERIAL SHALL BE CLASS 150 PVC (DR18) IN ACCORDANCE WITH APPLICABLE AWWA STANDARDS, LATEST REVISION.
3. WATERMAIN BEDDING SHALL BE AS PER OPSD 802.010.
4. A MINIMUM CLEARANCE BETWEEN THE WATERMAIN AND ALL UTILITIES MUST BE KEPT, WHILE STILL MAINTAINING A MINIMUM DEPTH OF COVER AT ALL TIMES.
5. WATERMAIN SHALL BE INSTALLED WITH A MINIMUM COVER OF 1.8m.
6. CAST IRON MECHANICAL JOINT FITTINGS MEETING AWWA SPECIFICATIONS C–907 AND C.S.A. B138.2 SHALL BE USED ON PVC WATERMAIN 150 TO 300mm IN DIAMETER.
7. ALL VALVES SHALL BE RESILIENT WEDGE GATE VALVES WITH VALVE BOX UNLESS OTHERWISE APPROVED BY THE TOWN. VALVES SHALL HAVE A NON–RISING STEM AND A 50mm SQUARE OPERATING NUT, OPENING COUNTER–CLOCKWISE.
8. VALVES IN EXCESS OF 1.8m IN DEPTH SHALL REQUIRE A VALVE STEM EXTENSION.
9. A MINIMUM HORIZONTAL SEPARATION OF 2.5m SHALL BE MAINTAINED BETWEEN THE WATERMAIN AND ANY SEWER.
10. PIPE DEFLECTION SHOULD BE USED WHEREVER POSSIBLE TO MINIMIZE THE USE OF BENDS. WHEREVER IT IS NECESSARY TO DEFLECT FROM A STRAIGHT LINE, EITHER IN THE VERTICAL OR HORIZONTAL PLANE, THE AMOUNT OF DEFLECTION SHALL NOT EXCEED THE RECOMMENDATIONS OF THE MANUFACTURER.
11. THE TOWN ENGINEER MUST BE NOTIFIED AT LEAST 48 HOURS IN ADVANCE OF ANY PRESSURE AND LEAKAGE TESTING, CHLORINATION OR FLUSHING WHICH MUST BE CARRIED OUT IN ACCORDANCE WITH TOWN SPECIFICATIONS AND OPSS 441.

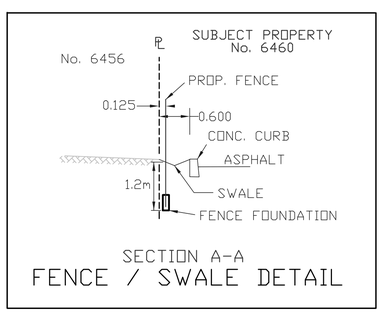
WATER SERVICES

1. EACH RESIDENTIAL UNIT SHALL HAVE A SEPARATE 25mm MINIMUM DIAMETER, TYPE K COPPER WATER SERVICE. WHEN SERVICE LINE EXCEEDS 30m IN LENGTH, THE SIZE OF THE LINE SHALL BE INCREASED TO AN APPROPRIATE DIAMETER, OR AS DIRECTED BY THE TOWN.
2. SERVICES SHALL BE INSTALLED ACCORDING TO OPSD 1104.010 AND 1104.020.
3. WATER SERVICES TO BE LOCATED 2.5m FROM THE LOT LINE OPPOSITE THE DRIVEWAY WITH A CURB STOP AT THE STREET LINE AND A MINIMUM 1.0m CLEAR FROM THE EDGE OF DRIVEWAY. LOCATIONS TO BE MARKED WITH 2 X 4 PAINTED BLUE.
4. THE MINIMUM DEPTH OF COVER IS 1.8m.
5. WATER SERVICES SHALL BE INSTALLED TO AVOID DRIVEWAYS. WHERE NOT POSSIBLE, FROST RINGS TO BE USED.
6. NO COUPLINGS WILL BE ALLOWED BETWEEN THE CURB STOP AND MAIN STOP.
7. STAINLESS STEEL SERVICE SADDLES SHALL BE USED WHEN TAPPING INTO THE PVC WATERMAIN.
8. A REMOTE READOUT WATER METER WILL BE REQUIRED ON EACH RESIDENCE. MAKE AND MODEL IS TO BE PER TOWN REQUIREMENTS COMPLETE WITH A REMOTE READER LOCATED ON AN OUTSIDE WALL, ADJACENT TO THE HYDRO METER.

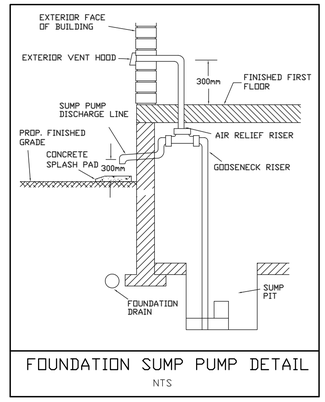




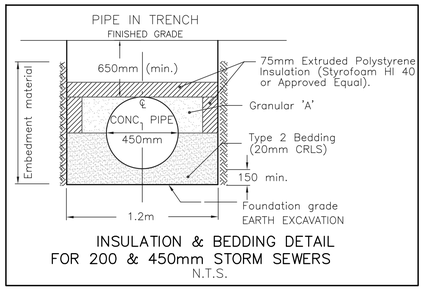
RAIN WATER LEADER DETAIL
N.T.S.



SECTION A–A
FENCE / SWALE DETAIL



FOUNDATION SUMP PUMP DETAIL
NTS



INSULATION & BEDDING DETAIL
FOR 200 & 450mm STORM SEWERS
N.T.S.

SANITARY SEWERS

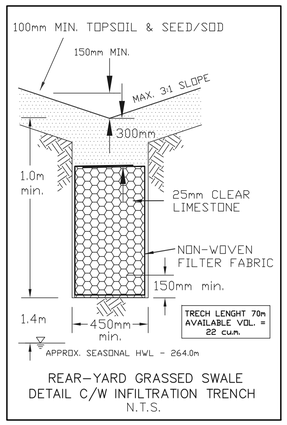
1. SANITARY SEWERS SHALL GENERALLY BE LOCATED 1.5m NORTH OR EAST OF THE ROAD CENTER.
2. ALL POLYVINYL CHLORIDE (PVC) SANITARY SEWER PIPE SHALL BE CSA STANDARD B182.2, SDR35. ALL SANITARY SEWERS SHALL HAVE WATERTIGHT JOINTS AND GASKETTED FITTINGS.
3. SEWERS SHALL BE CONSTRUCTED WITH BEDDING AS PER OPSD 802.010, AND 802.030, UNLESS OTHERWISE SPECIFIED BY A GEOTECHNICAL CONSULTANT AND APPROVED BY THE TOWN. IN WATER BEARING SAND, IF EXTENSIVE DEWATERING IS REQUIRED, A CLASS "A" BEDDING CONSISTING OF CONCRETE MAY BE REQUIRED.
4. FRAMES AND COVERS SHALL BE IN ACCORDANCE WITH O.P.S.D. 401.010, TYPE 'A'.
5. ALL DOMESTIC CONNECTIONS SHALL BE CONSTRUCTED IN ACCORDANCE WITH TOWN STANDARD DRAWINGS AND ALL APPLICABLE O.P.S.D. DETAILS TO A MAXIMUM DEPTH OF 4.5m. CONTROLLED SETTLEMENT JOINTS ARE REQUIRED ON ALL RISERS GREATER THAN 4.5m DEPTH.
6. INSTALL SEWER DROP CONNECTIONS TO MANHOLES AS PER OPSD 1003.010 AND 1003.020.
7. ALL MANHOLE ADJUSTMENT RINGS SHALL BE MORTARED FROM THE OUTSIDE AND INSIDE OF THE STRUCTURE PRIOR BACKFILLING.
8. MANHOLES ARE TO BE WATER–PROOFED PER OPSS 1351. MANHOLES ARE TO BE WATERTIGHT AND PARGED ALONG OUTSIDE OF JOINTS WITH MORTAR PRIOR TO BACKFILLING.
9. "CLAY PLUGS" SHALL BE USED IN THE TRENCH AND BE PLACED 2 TO 3 METERS UPSTREAM FROM ANY MANHOLE WHICH IS SUSPECTED OF BEING SUSCEPTIBLE TO HIGH WATER LEVELS OF INFLOW/INFILTRATION, SUBJECT TO VERIFICATION BY GEOTECHNICAL ENGINEER.
10. MAINTENANCE HOLE TOPS (FRAMES) ARE TO BE SET TO BASE COURSE ASPHALT GRADE, AND THEN ADJUSTED TO FINAL GRADE WHEN TOP LIFT OF ASPHALT IS PLACED. GRADE AND CROSSFALL ADJUSTMENT SHALL BE MADE USING PRODUCTS SPECIFICALLY MANUFACTURED FOR THAT PURPOSE. MODULAR ADJUSTMENT RINGS ARE TO BE USED TO ADJUST THE MANHOLE TO FINAL GRADE.
11. PRECAST CONCRETE MANHOLES SHALL CONFORM TO OPSD M701.010 (MODIFIED) FOR 1200mm DIAMETER.
    a) REINFORCED, POURED IN PLACE CONCRETE MANHOLES, ARE SUBJECT TO APPROVAL OF THE TOWN ENGINEER.
    b) SAFETY PLATFORMS ARE TO BE PROVIDED FOR MANHOLES IN ACCORDANCE WITH PROVINCIAL REGULATIONS.
    c) ALL SANITARY MANHOLES TO HAVE BENCHING TO OBVERT PER OPSD 701.021.
12. MINIMUM CLEARANCES BETWEEN SERVICES SHALL BE PROVIDED IN ACCORDANCE WITH M.O.E. GUIDELINES. MINIMUM CLEARANCE FOR SEWERS IN THE COMMON TRENCH SHALL BE 450MM BETWEEN THE OUTSIDE OF THE BELLS.
13. A MINIMUM COVER OF 2.8m BELOW THE CENTERLINE ROAD ELEVATION OR SUFFICIENT DEPTH FOR BASEMENT FLOOR DRAINS AND FROST COVER SHALL BE PROVIDED. WHERE SEWERS AREA LOCATED WITHIN AN EASEMENT A MINIMUM FROST COVER OF 1.5m MAY BE USED, PROVIDED SUCH SEWERS CROSS BELOW WATERMAINS.
14. BULKHEADS OR PLUGS ARE REQUIRED IN DOWNSTREAM MANHOLE AT OUTLET FROM DEVELOPMENT, UNTIL FIRST OCCUPANCY.
15. ALL TESTING OF THE SANITARY SYSTEM IS TO BE COMPLETED IN ACCORDANCE WITH THE "SANITARY SEWER SYSTEM INSPECTION, TESTING AND ACCEPTANCE GUIDELINE"(OCT.2011) AS PREPARED BY THE REGION OF YORK, OR LATEST AMENDMENT THERETO.
16. MANHOLE STEPS ARE TO BE SOLID, RECTANGULAR ALUMINUM PER OPSD 405.020.

SEWER SERVICE LATERALS

1. ALL SANITARY LATERAL PIPES SHALL BE PVC–DR28, GREEN IN COLOR. SINGLES ARE 100mm, DOUBLES ARE 125mm.
2. STORM SERVICES SHALL BE 150mm DIAMETER PVC DR 28, WHITE IN COLOR.
3. ELEVATION OF SERVICE CONNECTIONS AT THE STREETLINE IS TO BE 2.5m MINIMUM BELOW FINISHED GRADE AND TERMINATED WITH A WATER–PROOF PLUG.
4. LOCATION STAKED WITH A 2 X 4 MARKER PAINTED RED FOR SANITARY AND GREEN FOR STORM.
5. ALL LATERALS ARE TO BE INSPECTED BY CCTV FROM THE MAINLINE TO THE DWELLING AND A REPORT SUBMITTED TO THE TOWN PRIOR TO OCCUPANCY OF THE DWELLING.
6. TEST FITTINGS AT STREET–LINE TO BE WATER–TIGHT PVC FITTING.
7. BEDDING FOR LATERALS TO BE PER OPSD 1006.010 AND OPSD 1006.020 (MODIFIED).

GRADING NOTES:

1. All external site areas disturbed by the activities of the contractor shall be restored to existing condition or better and to the satisfaction of the Town. Grassed areas shall be restored by placing 150mm topsoil and actively growing 1 nursery sod. All boulevards to be sodded.
2. Topsoil in fill areas to be stripped. All fill materials approved for suitability by the geotechnical engineer prior to any filling or reuse of excavated material. Approval fill material shall be compacted to the satisfaction of the geotechnical engineer.
3. Pavement grades (min. 0.5%, max. 5.0%).
4. Drainage swales with grades (min. 2%, max. 5.0%).
5. Slopes in landscaped areas and on berms shall not exceed 3 horizontal to 1 vertical with a maximum vertical elevation not in excess of the applicable Town standard.
6. Silt fence to be installed and maintained to prevent silt flowing onto adjacent lands prior to stripping topsoil and to be maintained until all construction is complete.
7. Construction access shall be constructed with a minimum depth of 450mm crushed stone base from the municipal curb or edge of pavement to the property line, to the satisfaction of the Town.
8. Boulevard grades are to be 2.0% to 4.0% max.
9. Siltation control measures shall be in place prior to start of any construction.
10. All grading to conform to Town of Richmond Hill standards and specification and OPSD.
11. All construction to be carried out in accordance with the most recent design criteria, standards, and specifications of the Town of Richmond Hill and OPSD.
12. The geotechnical consultant shall verify the suitability of the engineered fill at source prior to hauling any material on site.
13. All fill shall be placed and compacted to 95% standard proctor density in maximum 0.20m lifts to sub–grade.
14. Unless otherwise shown on the grading and/or erosion sediment control plan, proposed stockpiling of topsoil during construction will require the owner's engineer to provide the location and height of stockpiled topsoil. Topsoil pile must be stable and seeded to establish a temporary vegetative cover and to prevent erosion.

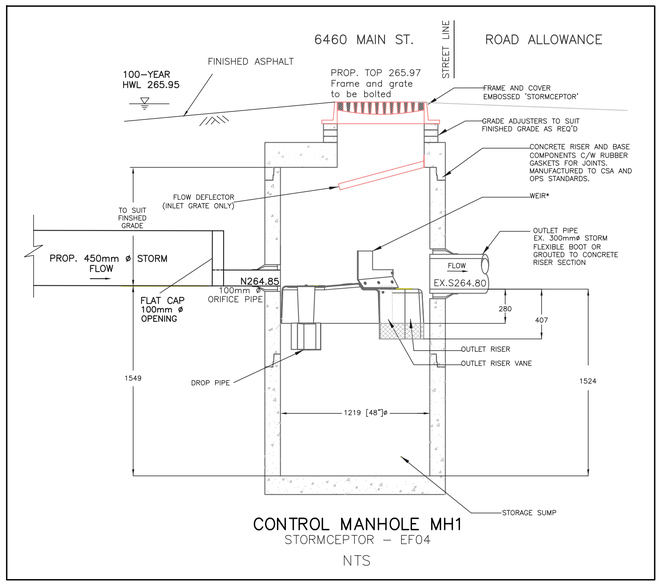


REAR–YARD GRASSED SWALE
DETAIL C/W INFILTRATION TRENCH
N.T.S.

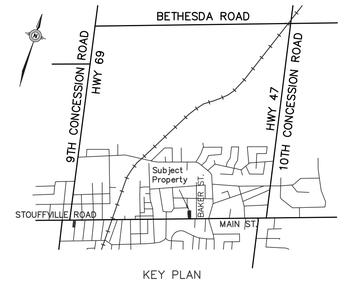
REQ'D. VOLUME(V) = REAR ROOF AREAS (sq.m.) x 0.025m / 0.4 (Void Ratio)

V = 350 (sq.m.) x 0.025 / 0.4

V = 21.8 cum.



CONTROL MANHOLE MH1
STORMCEPTOR – EF04
NTS



KEY PLAN
N.T.S.

NOTE:
Distances Shown On This Plan Are In Metres And Can Be Converted To Feet By Dividing By 0.3048

The Position of Pole Lines, Conduits, Watermains, Sewers and Other Underground and Overground Utilities and Structures is Not Necessarily Shown On The Contract Drawing, And Where Shown, The Accuracy Of The Position of Such Utilities and Structures 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.

LEGEND

- 266.35 PROPOSED ELEVATION
- 265.10 EX. ELEVATION
- EX. STORM MAINTENANCE HOLE
- EX. SANITARY MAINTENANCE HOLE
- R PROP. ROOF LEADER C/W SPLASH PAD
- S PROP. SUMP DISCHARGE TO SPLASH PAD
- Ex.CB EXISTING CATCHBASIN
- CB PROPOSED CATCHBASIN
- MC PROP. WATER METER CHAMBER
- WB PROPOSED WATER BOX
- PROP HYD&V PROP. HYDRANT & VALVE
- PROP. FLOW DIRECTION
- PROP. 3:1 (MAX) SLOPE
- FF FINISHED FIRST FLOOR ELEVATION
- TW TOP OF FOUNDATION WALL ELEVATION
- USF UNDERSIDE OF FOOTING ELEVATION
- DENOTES EXISTING TREES
- DENOTES EX. TREE TO BE REMOVED
- STOP SIGN C/W STOP BAR
- OVERLAND FLOW ROUTE

No.	Revision	Date	By	Appr'd
2	REV. PER TOWN & BURNSIDE COMMENTS – NOV. 2025	JULY 2026	CDR	CDR
1	REV. PER TOWN & BURNSIDE COMMENTS – MAR. 2021	MAR. 2024	CDR	CDR

Benchmarks

No.	Elevation	Description
130210005	265.196m	ELEVATIONS SHOWN HEREON ARE GEODETIC AND ARE REFERRED TO THE MINISTRY OF NATURAL RESOURCES AND FORESTRY CONTROL SURVEY INFORMATION EXCHANGE (COSINE). BENCHMARK N° 130210005 HAVING A PUBLISHED ELEVATION OF 265.196 METRES.

2426009 ONTARIO LTD.

PROPOSED RESIDENTIAL DEVELOPMENT
6460 MAIN STREET, TOWN OF WHITCHURCH–STOUFFVILLE

CONSULTANT

LICENSED PROFESSIONAL ENGINEER
C. DI REZZE
JULY.9/2026
PROVINCE OF ONTARIO

ACCEPTED
TOWN OF WHITCHURCH STOUFFVILLE

SIGNATURE DATE

TOWN OF WHITCHURCH–STOUFFVILLE

AME–TECH Developments Limited
Urban Engineering & Project Management Services
346 Newkirk Road, Unit 9, Richmond Hill, Ontario L4C 0A9, 905.884.4336

SERVICING & GRADING

LOT 30 AND PART OF LOT 31, REGISTERED PLAN 230
TOWN OF WHITCHURCH–STOUFFVILLE
REGIONAL MUNICIPALITY OF YORK

Surveyed by: B.IAVICOLI, O.L.S.	Checked by:	GDR	Town File Nos. SPA20.019
Drawn by: CADD	Approved by:	CDR	
Designed by: CDR	Date:	JULY 2026	Drawing No. SG1
Scale Horz. 1:250 (0m 5m 10m)			Sheet No. 1 OF 2