

1. ALL EXISTING UNDERGROUND UTILITIES AND SERVICES TO BE VERIFIED IN THE FIELD BY THE CONTRACTOR PRIOR TO CONSTRUCTION.
2. ANY SITE DELINEATION TO BE DIRECTED DOWNWARD AND INTERNAL TO SITE ONLY.
3. DETAILS ON PROPOSED PLANTING, LANDSCAPE FEATURES, SITE TREATMENTS ARE PREPARED BY LANDSCAPE ARCHITECT.
4. RIP-RAP/GEOTEXTURE PERMIT IS REQUIRED FROM THE TOWN PRIOR TO ANY WORKS COMPLETED WITHIN THE MUNICIPALITY. RIGHT OF WAY (ROW), CONTRACTOR IS RESPONSIBLE TO RETAIN PERMIT.
5. ALL BOULEVARDS & DISTURBED AREAS ARE TO BE RESTORED TO EXISTING CONDITIONS OR BETTER, 100mm TOPSOIL & SEED UNLESS OTHERWISE NOTED.
6. CLEAN STONE WEARABLE IN FILTER CLOTH CAN BE SUBSTITUTED FOR BEDDING MATERIAL IF APPROVED BY THE GEOTECHNICAL ENGINEER.
7. ALL PROPERTY BARS TO BE PROTECTED DURING CONSTRUCTION. BARS ARE TO BE PLACED BY O.L.S. AT CONTRACTOR'S EXPENSE IF DAMAGED OR REMOVED.
8. DEWATERING PUMPS ARE TO BE CARRIED OUT IN ACCORDANCE WITH OPS5-517 & 518 TO MAINTAIN ALL TRENCHES IN A DRY CONDITION. CONTRACTOR IS RESPONSIBLE FOR OBTAINING MECP PERMIT IF REQUIRED.
9. ALL RIP-RAP/CAGON MATTRESSES TO BE PLACED UPON FILTER CLOTH.
10. ALL MATERIALS AND/OR SPECIFICATIONS NOTED OR REFERENCED IN THIS CONTRACT UNLESS OTHERWISE NOTED ON THE PLAN AND PROFILE DRAWINGS AND/OR SPECIFIC DETAIL DRAWINGS.
11. ALL MATERIALS ARE TO COMPLY WITH THE MANUFACTURER'S SPECIFICATIONS PER APPROVED PRODUCTS AS LISTED IN TOWN MATERIALS SPECIFICATIONS.
12. THE TOWN OF BLUE MOUNTAIN, ONTARIO PROVINCIAL STANDARDS AND SPECIFICATIONS (OPS5) 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 BLUE MOUNTAIN STANDARD DRAWINGS, AND SECONDLY ONTARIO PROVINCIAL STANDARD DRAWINGS.
13. THE CONTRACTOR SHALL BE RESPONSIBLE TO OBTAIN ALL RELEVANT STANDARD DRAWINGS AND SPECIFICATIONS AS REQUIRED FOR THIS CONTRACT.
14. UNLESS OTHERWISE SPECIFIED, ALL DIMENSIONS SHOWN ON THE ENGINEERING DRAWINGS ARE IN METERS OR MILLIMETERS.
15. 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.

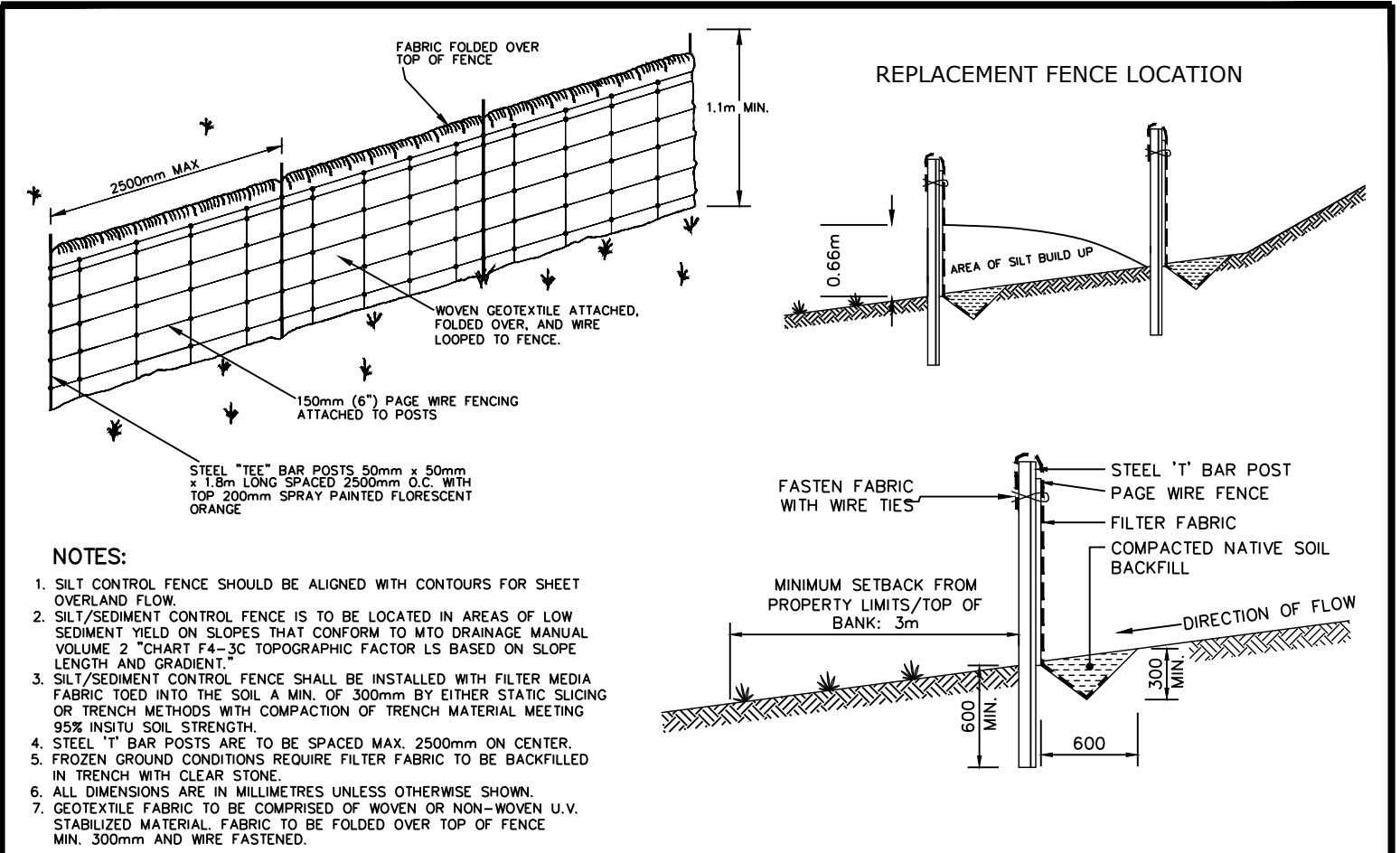
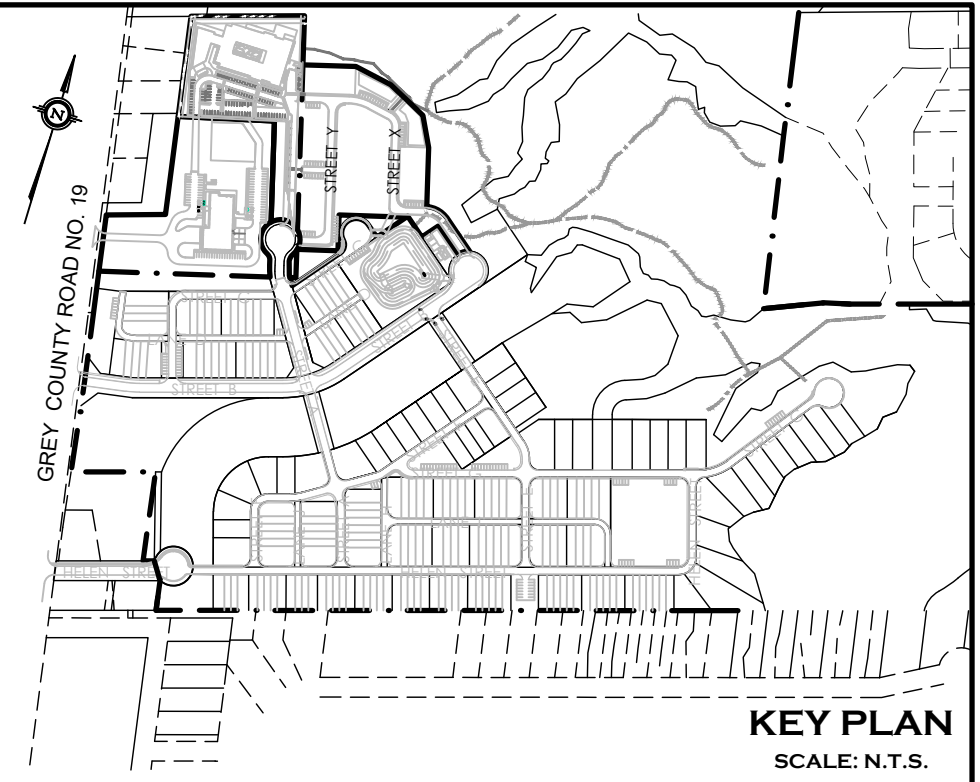
2. ALL EXCAVATION SHALL CONFORM TO THE CURRENT ONTARIO PROVINCIAL SPECIFICATION FOR GRADING OPSS 206.
3. THE DEVELOPER SHALL RETAIN A QUALIFIED SOILS CONSULTANT TO CARRY OUT COMPACTION TESTS ON THE SUB-GRADE AND SUBBASE AND SUBSEQUENT LIFTS OF GRANULAR BASE MATERIAL BEFORE PLACEMENT OF NEXT GRANULAR OR ASPHALT LAYER.
4. ALL VEGETATION, Boulders Over 150mm³, TOPSOIL AND ORGANIC OR FROST-SUSCEPTIBLE MATERIALS, SHALL BE REMOVED FROM THE ROAD BASE TO A DEPTH OF AT LEAST 1.20m BELOW FINISHED GRADE AND REPLACED WITH GRANULAR SUB-GRADE.
5. ALL UNSUITABLE EXCAVATED MATERIAL SHALL BE REMOVED FROM THE ENTIRE "ROAD CORRIDOR" AND DEPOSITED OFF THE SITE TO A DISPOSAL AREA APPROVED BY THE SITE ENGINEER.
6. THE SUB-GRADE SHALL BE SHAPED TO CONFORM TO THE REQUIRED LONGITUDINAL GRADE AND CROSS-SECTION AND SHALL HAVE A CROSSFALL OF 3% FROM THE SOUTH OR EAST SIDE TO THE NORTH OR WEST SIDE OF THE ROADWAY.
7. NATIVE SUB-GRADE TO BE GRADED, COMPACTED AND PROOF-ROLLED PRIOR TO PLACEMENT OF GRANULARS. COMPACTION TO BE MINIMUM 98% STANDARD PROCTOR WITH MAXIMUM DRY DENSITY (SPMSD) IDENTIFIED SLOPE AND WEAR COURSE SHALL BE EXCAVATED AND BACKFILL WITH A SUITABLE GRANULAR BASE MATERIAL.
8. GRANULAR "A" SHALL BE LAID ON DRY, SMOOTH, PROPERLY GRADED SUB-GRADE AND SHALL BE SPREAD FOR THE REQUIRED WIDTH TO MEET THE EDGE OF SUB-GRADE. THE GRANULAR ROAD BASE SHALL CONSIST OF A BOTTOM COURSE OF 450mm MIN. CONSOLIDATED GRANULAR "B" MATERIAL FULL WIDTH ACROSS THE ROADWAY AND A TOP COURSE OF 150mm GRANULAR "A" MATERIAL FULL WIDTH ACROSS THE ROADWAY AND CONFORMING IN ALL RESPECTS TO THE ONTARIO PROVINCIAL STANDARD SPECIFICATION FOR GRADING OPSS 206, PARAGRAPH 10.0.
9. THE GRANULAR MATERIAL SHALL BE SPREAD IN LAYERS OF 150mm MAXIMUM COMPACTED DEPTHS, AND EACH LAYER SHALL BE THOROUGHLY COMPACTED TO 100% SPMD.
10. NO GRANULAR BASE SHALL BE PLACED UNTIL THE GRADE ON WHICH IT IS TO BE LAID HAS BEEN INSPECTED AND APPROVED BY THE SOILS CONSULTANT.
11. ALL GRANULAR CONSTRUCTION SHALL CONFORM IN ALL RESPECTS TO ONTARIO PROVINCIAL STANDARD SPECIFICATION OPSS-PROV 314.
12. AS SOON AS THE GRANULAR BASE HAS BEEN COMPLETED IT SHALL BE THOROUGHLY COMPACTED AND SHAPED AND THE ASPHALT BASE. THE BASE COURSE SHALL CONSIST OF 50mm OF HL4 BASE COURSE ASPHALT. THE SURFACE COURSE SHALL CONSIST OF 50mm (PUBLIC ROADS) OR 40mm (PRIVATE ROADS) OF HL3 SURFACE COURSE ASPHALT. ASPHALT WORK SHALL CONFORM IN ALL RESPECTS TO ONTARIO PROVINCIAL STANDARD SPECIFICATIONS OPSS 310.
13. ALL GRANULAR OR ASPHALT COMPONENTS SHOULD BE COMPACTED TO 92% MAXIMUM RELATIVE DENSITY, AS PER OPSS/MIN 310.
14. JOINTS WITH EXISTING ASPHALT TO BE SAW CUT STRAIGHT PRIOR TO PLACING NEW ASPHALT AND TACK COAT APPLIED TO EXISTING ASPHALT.
15. AND SERVICES, MANHOLES, VALVES, ETC. ARE TO BE INSTALLED TO MATCH GRADE OF BASE COURSE OF ASPHALT AND TO FINISH GRADE OF LANDSCAPING. UPON PLACEMENT OF SURFACE COURSE OF ASPHALT ALL APPURTENANCES LOCATED IN ROADWAY SHALL BE RAISED TO MATCH FINISHED GRADE.
16. ALL ROAD CROSSING CULVERTS TO BE HDPE 320 kPa PIPE TO CL-625 CSA S6 UNLESS NOTED OTHERWISE. THE MINIMUM SIZE FOR ROAD CROSSING CULVERTS SHALL BE 600mm, ENTRANCE AND OTHER INLINE DITCH CULVERTS SHALL BE 450mm MINIMUM. ALL CULVERTS TO BE INSTALLED WITH TYPICAL TREATMENT PER OPSD 803.030 OR 803.031 & RIP RAP END TREATMENT PER OPSD 810.010. MINIMUM COVER TO BE 0.3m (0.5m RECOMMENDED) AT ALL POINTS ALONG CULVERTS.
17. PERFORATED SUBDRAIN (100mm² FOR INTERNAL ROADS & 150mm² FOR PUBLIC ROADS), SHALL BE INSTALLED CONTINUOUSLY BELOW CURB OR SIDEWALK AND CROSSING UNDER TOWN OF URBAN CROSS SECTIONS ARE TO BE APPLIED UNLESS SOIL CONDITIONS WARRANT OTHERWISE AND CONNECTED TO STORM SEWER SYSTEMS. ALL SUBDRAINS ARE TO BE INSTALLED IN ACCORDANCE WITH OPSS/MIN. 405 AND OPSD 421.
18. GARBAGE PADS TO BE CONSTRUCTED PER SAME MAKE-UP AS SIDEWALKS.
19. ALL SIDEWALKS SHALL BE CONSTRUCTED TO INCLUDE RAMPED STEPS TO FACILITATE SAFE PEDESTRIAN MOVEMENT AND ENCOURAGE PEDESTRIAN TRAFFIC. ALL CONCRETE SIDEWALK RAMP SHALL INCLUDE TACTILE WALKING SURFACE INDICATORS IN ACCORDANCE WITH OPSD 310.039.

1. STORM SEWER PIPE SHALL BE CONSTRUCTION CONCRETE CL-650 (525mm² AND LARGER) OR PVC DR35 (450mm² AND SMALLER). PVC PIPE SHALL BE USED IN ACCORDANCE TO OPSD 806.040 EXCLUDING THE USE OF DR41.
NON-REINFORCED CONSTRUCTION PIPE MAY BE USED FOR SIZES OF MAINLINE SEWER UP TO AND INCLUDING 375mm².
REINFORCED CONSTRUCTION PIPE MAY BE USED FOR ALL SIZES OF MAINLINE SEWER.
2. MINIMUM PIPE SIZE, INCLUDING CATCHBASIN LEADS, SHALL BE 300mm².
3. RIGID PIPE BEDDING SHALL BE IN ACCORDANCE WITH OPSS 401. BEDDING AND BACKFILLING TO BE IN ACCORDANCE WITH OPSS 802.030, 802.031, 802.032, 802.033 OR 802.034 AS APPLICABLE. UNLESS OTHERWISE SPECIFIED BY A GEOTECHNICAL CONSULTANT.
4. FLEXIBLE PIPE BEDDING SHALL BE IN ACCORDANCE WITH OPSS 401. BEDDING AND BACKFILLING TO BE IN ACCORDANCE WITH OPSS 802.010, 802.013, OR 802.014 AS APPLICABLE. UNLESS OTHERWISE SPECIFIED BY A GEOTECHNICAL CONSULTANT.
5. PRECAST STORM MANHOLES SHALL BE PER OPSS 701.010 (1200mm²), 701.011 (1500mm²) OR 701.012 (1800mm²) WITH FRAME AND GRATE PER OPSS 401.010 TYPE 'A' AND HOLLOW RECTANGULAR LADDER RUNGS OPSS 405.010. CATCHBASIN MANHOLE FRAME AND GRATE PER OPSS 400.020. BENCHING SHALL BE PROVIDED IN ALL MANHOLES AS PER OPSS 701.010.
6. EXTERNAL DROP STRUCTURES SHALL BE PROVIDED WHEN THE DIFFERENCE IN INVERT ELEVATION IS GREATER THAN 600mm. ALL MAINTENANCE HOLE DROP STRUCTURES ARE TO BE IN ACCORDANCE WITH OPSS 1003.010. THE USE OF INTERNAL DROP STRUCTURES IS NOT PERMITTED.
7. PRECAST CATCHBASINS ARE TO BE OPSS 705.010 (SINGLE) OR 705.020 (DOUBLE) WITH FRAME AND GRATE OPSS 400.020. CATCHBASIN LEADS AND MANHOLE LEADS SHALL HAVE SUMPS PER OPSS 705.010.
8. ALL CONNECTIONS OF FLEXIBLE SEWER PIPE TO ANY STRUCTURE SHALL BE WATERTIGHT. CONNECTIONS TO ALL STRUCTURES INCLUDING EXISTING STRUCTURES WILL REQUIRE A CORED PIPE OPENING. RIGID PIPE SHALL BE GROUDED IN PLACE. PIPE SUPPORT AT ALL STRUCTURES TO BE IN ACCORDANCE WITH OPSS 708.020.
9. ROOF LEADERS SHALL NOT BE DIRECTLY CONNECTED TO THE TOWN SEWER SYSTEMS. LEADERS SHALL DISCHARGE TO LANDSCAPED AREA OR LANDSCAPED AREA DRAINING TO ONE OF THE ABOVE STRUCTURES. THE END OF THE LOT WHERE POSSIBLE. ROOF LEADER OUTLETS SHALL NOT BE CLOSER THAN 1.0m FROM THE FRONT PROPERTY LINE.
10. FROST STRAPS REQUIRED ON ALL MANHOLES AS PER OPSS 701.100. FROST STRAPS SHALL BE CONTINUOUS AND EXTEND A MINIMUM OF 4m BELOW GRATE.
11. CULVERTS ARE NOT TO EXTEND TO DITCH INVERT BUT ARE TO BE 0.6m SHORTER TO AVOID IMPEDING DITCH FLOW.
12. THE MINIMUM SIZE FOR ROAD CROSSING CULVERTS SHALL BE 600mm. CULVERTS SHALL BE INSTALLED IN ACCORDANCE WITH OPSS 440.040 AND DRAINING TO ONE OF THE ABOVE STRUCTURES WITH THE APPROPRIATE OPSS, ENTRANCE AND OTHER INLINE DITCH CULVERTS SHALL BE MINIMUM 500mm DIAMETER AND A MAXIMUM LENGTH OF 9m WITHOUT PROVIDING ACCESS.
13. DRAINAGE DRAINS SHALL NOT BE CONNECTED DIRECTLY TO THE TOWN SEWER SYSTEMS UNDER ANY CIRCUMSTANCES. A SUMP PUMP SYSTEM MAY DISCHARGE TO A 100mm² RESIDENTIAL STORM SEWER SERVICE CONNECTION WITH AN AIR GAP AS PER TOWN STANDARD DRAWING 4.4.1A (URBAN). WHERE STORM SEWER CONNECTIONS ARE NOT AVAILABLE, THE SUMP PUMP SYSTEM SHALL DISCHARGE TO A SPLASH PAD IN A LANDSCAPED AREA WITH THE WATER DRAINING TO SIDE YARD SWALES AND DIRECTED TO THE REAR OF THE LOT WHERE POSSIBLE AS PER TOWN STANDARD DRAWING 4.4.1B (RURAL).
14. SERVICE CONNECTIONS:
 - A. STORM SEWER CONNECTIONS ARE PERMITTED ONLY ONE SERVICE CONNECTION. WYE (DOUBLE) CONNECTIONS ARE NOT PERMITTED.
 - B. STORM SERVICE SHALL HAVE A MINIMUM 1.2m COVER AND SHALL BE INSTALLED WITH A MINIMUM GRADE OF 1.0%.
 - C. ALL STORM SERVICE CONNECTIONS TO THE MAINLINE SHALL BE PREFABRICATED TEES OR FACTORY-MADE FITTINGS.

1. ALL WATERMAIN SHALL BE CONSTRUCTED IN ACCORDANCE WITH OPSS MUNI 441 AND AWWA C605-94 STANDARDS, LATEST REVISION..
2. WATERMAIN PIPE SHALL BE PVC D1818 (SIZES UP TO 300mm), CONFORMING TO AWWA C900. ALL PIPE MATERIALS SHALL MEET NSF/ANSI 61 CERTIFICATION. A DIFFERENT PIPE STRENGTH OR TYPE MAY BE REQUIRED BY THE MUNICIPALITY FOR SPECIAL CONDITIONS.
3. WATERMAIN DEFLECTION SHALL NOT EXCEED MANUFACTURER'S RECOMMENDATIONS, WHERE DEFLECTION CAN NOT MEET MANUFACTURERS RECOMMENDATIONS, CONTRACTOR TO INSTALL THE REQUIRED MANUFACTURED BEND AS NECESSARY.
4. WATERMAIN BEDDING SHALL BE GRANULAR "A" OR AN APPROVED EQUIVALENT AS PER OPSD 80.010 AND AS RECOMMENDED BY THE GEOTECHNICAL ENGINEER.
5. THE COMPLETE WATER SYSTEM INCLUDING SERVICE CONNECTIONS TO THE PROPERTY LINE AND HYDRANTS SHALL BE TESTED IN ACCORDANCE WITH "THE BLUE MOUNTAIN WATERMAIN COMMISSIONING PROTOCOL" AVAILABLE ON THE TOWN'S WEBSITE. TESTING OF THE WATER SYSTEM SHALL BE DONE WITH THE PARTICIPATION OF THE WATER DEPARTMENT.
6. ALL TESTING REQUIRES NOTIFICATION IN WRITING, 48 HOURS PRIOR TO ALL TESTING.
7. ALL CONNECTIONS TO EXISTING MUNICIPAL SUPPLY MAINS MUST BE WITNESSED AND INSPECTED BY THE MUNICIPALITY OR REPRESENTATIVE AND GIVING 48 HOURS NOTICE PRIOR TO BACKFILLING OPERATIONS.
8. THE PVC PIPE INSTALLATION SHALL INCLUDE TRACER WIRE. TRACER WIRE TO BE 10 GAUGE, MULTI-STRAND SHALL BE PLACED ON OR ATTACHED TO THE EXISTING LENGTH OF PVC WATERMAIN. ALL CONNECTIONS SHALL BE MADE WITH "DRYCONN WATERPROOF CONNECTORS" OR APPROVED EQUIV. MUNICIPALITY MUST BE ON SITE DURING ANY TRACER WIRE CONTINUITY TESTING.
9. THE MINIMUM COVER ON WATERMAINS SHALL BE 1.7m. WHEN COVER IS LESS THAN 1.7m, CONTRACTOR TO PROVIDE INSULATION PER DETAIL ON DWG D73.
10. A MINIMUM HORIZONTAL SEPARATION OF 2.5m SHALL BE MAINTAINED BETWEEN THE WATERMAIN AND ANY SEWER.
11. CATHODIC PROTECTION REQUIRED ON ALL METALLIC FITTINGS AND PIPE AS PER OPSD 702 & MUNI STANDARD.
12. MECHANICAL JOINT RESTRAINTS SHALL BE REQUIRED AT ALL CHANGES IN PIPE DIRECTION, TERMINATIONS AND ANY LOCATION WHERE THRUST PRESSURES MAY OCCUR. WHERE SOIL CONDITIONS ARE SUSPECT, SUCH AS IN DISTURBED SOILS OR SOILS WITH BEARING CAPACITY OF LESS THAN 200kPa, PIPE RESTRAINTERS SHALL BE USED. SEE TOWN STANDARDS OF APPROPRIATE PRODUCT REQUIREMENTS. THE USE OF THREADED RODS IN JOINT RESTRAINT IS NOT PERMITTED. CONTRACTOR SHALL PROVIDE SHOP DRAWINGS OF MECHANICAL RESTRAINT INSTALLATION LOCATIONS PRIOR TO WATERMAIN INSTALLATION.
13. ALL HYDRANTS SHALL BE PAINTED CHROME YELLOW. ALL HYDRANTS SHALL HAVE A FLEXSTEAK HYDRANT MARKER MODEL C804, 1.2m LONG, COLOUR YELLOW WITH A REFLECTIVE HYDRANT GRAPHIC ON BOTH SIDES AT THE TOP OF THE MARKER. THE REQUIRED HYDRANT MARKER IS POSITIONED ON THE RIGHT FOOT AS VIEWED FROM THE STREET.
14. ISOLATION VALVES SHALL BE RESILIENT WEDGE GATE VALVES WITH MECHANICAL JOINT ENDS, OPEN LEFT, CLOSE RIGHT OR MECHANICAL VALVE BOXES SH-10 BE V2000 SLIDE TYPE 1.6S TO 2.1S OR CAT VB-003S ITEM V6864A COMPOSITE COMPLETE WITH GUIDE PLATE AND DUCTILE ADJUSTABLE TOP AND LID OR APPROVED EQUIV. WITH CAP, PAINTED BLUE.
15. VALVE BOX COVER TO BE STAMPED "WATER".

1. WATER SERVICE CONNECTIONS SHALL BE INSTALLED IN ACCORDANCE WITH OPSP 1104.010 AND 1104.020 AS APPLICABLE.
2. EACH HOUSING UNIT SHALL HAVE A SEPARATE 25mmØ MIN. CROSSLINKED POLYETHYLENE SDR9 REHAU'S MUNIPELEX OR IPEX (BLUE904) WATER SERVICE. A CURB STOP AND EXTENSION SERVICE AND MAIN STOP MUST BE INSTALLED ON EACH SERVICE USING COMPRESSION JOINT FITTINGS. TRACER WIRE SHALL BE PLACED ALONG THE ENTIRE LENGTH OF EACH SERVICE LINE.
3. WATER SERVICE FITTINGS SHALL BE AS FOLLOWS:
 - MAIN STOPS ARE TO BE MUELLER 300 B-2500BN.
 - CURB STOPS ARE TO BE SELF DRAINING, MUELLER 300 B-2520GN.
 - SERVICE BOXES ARE TO BE OF ALL IRON/STEEL CONSTRUCTION AND SUPPLIED WITH STAINLESS STEEL RODS, MUELLER 801 (25mm), 802 (31--50mm) OR EQUIVALENT.
4. CURB STOPS SHALL BE LOCATED AT THE LIMITS OF THE SERVICE CORRIDOR OR PER THE TYPICAL ROAD CROSS SECTION. CURB STOPS AND WATER SERVICE TAILS (AS SPECIFIED) TO BE SUPPLIED WITH A 89mm X 38mm MARKER FROM THE INVERT OF THE SERVICE TO 600mm ABOVE GRADE PAINTED BLUE.
5. SERVICE CONNECTIONS TO WATERMANS SHALL BE MADE BY DIRECT TAPPING OR WITH PVC OR DUCTILE IRON PIPE SERVICE SADDLES. SERVICE SADDLES TO BE ROBAR SERIES 2606 PRODUCT #2626 & TAPPING SADDLE TO BE ROBAR 680.
6. SERVICE CONNECTIONS SHALL BE LEFT WITH A TAIL ABOVE GRADE & CAPPED OR CRIMPED. TAIL LOCATION TO BE AS SPECIFIED ON TYPICAL ROAD CROSS SECTIONS.
7. SERVICE CONNECTIONS WITH RESIDUAL PRESSURES EXCEEDING 550 kPa (80psi) MUST BE EQUIPPED WITH PRESSURE REDUCING DEVICES UPSTREAM OF WATER METER IN FUTURE HOMES.
8. WATER SERVICES THAT ARE LOCATED IN DRIVEWAYS TO HAVE APPROVED ACCESS CAP WITH ADJUSTABLE VALVE BOX INSD AS PER APPROVED WATER METER INSTALLATION RECOMMENDATIONS.
9. ALL WATER SERVICES SHALL BE METERED INCLUDING PRIVATE IRRIGATION & PRIVATE FIRE LINES AND OTHER EXTERIOR USES IN ACCORDANCE WITH BY-LAW No. 2008-02 "REGULATION OF WATER SUPPLY IN THE TOWN OF THE BLUE MOUNTAINS".

1. MAIN SEWERS SHALL BE PVC SDR 35 WITH RUBBER GASKET CONNECTIONS AND MIN. SIZE OF 200mmØ. ALL SANITARY SEWER PIPES SHALL CONFORM TO THE REQUIREMENTS OF CSA AND OPSB.
2. SANITARY FORCE-MAIN PIPE DESIGN SHOULD REFERENCE MCEP GUIDELINES, ONTARIO PROVINCIAL STANDARDS AND TO REQUIREMENTS.
3. RIGID PIPE BEDDING SHALL BE IN ACCORDANCE WITH OPSB 401.01 OR AS INCREASED BY THE GEOTECHNICAL REPORT. BEDDING AND BACKFILLING TO BE IN ACCORDANCE WITH OPSB 402.030, 802.031, 802.032, 802.033 OR 802.034 AS APPLICABLE.
4. FLEXIBLE PIPE BEDDING SHALL BE IN ACCORDANCE WITH OPSB 401 OR AS INCREASED BY THE GEOTECHNICAL REPORT. BEDDING AND BACKFILLING TO BE IN ACCORDANCE WITH OPSB 802.010, 802.013, OR 802.014 AS APPLICABLE.
5. PRECAST SANITARY MANHOLES SHALL CONFORM WITH OPSD 701.010 (1200mmØ) WITH HOLLOW RECTANGULAR LADDER RUNGS OPSD 405.010. BENCHING SHALL BE PROVIDED IN ALL MANHOLES AS PER OPSD 701.021.
6. EXTERNAL DROP STRUCTURES SHALL BE PROVIDED WHEN THE DIFFERENCE IN INVERT ELEVATION IS GREATER THAN 600mm. ALL MAINTENANCE HOLE DROP STRUCTURES ARE TO BE IN ACCORDANCE WITH OPSD 1003.010. THE USE OF AN INTERNAL DROP STRUCTURE IS NOT PERMITTED.
7. ALL CONNECTIONS OF FLEXIBLE SEWER PIPE TO ANY STRUCTURE SHALL BE WATERTIGHT. CONNECTIONS TO ALL STRUCTURES INCLUDING EXISTING STRUCTURES WILL REQUIRE A CORED PIPE OPENING. RIGID PIPE SHALL BE GROUPE PLATE. PIPE SUPPORT AT ALL STRUCTURES TO BE IN ACCORDANCE WITH OPSD 708.020.
8. IN CASES WHERE SANITARY MAINTENANCE HOLES ARE LOCATED IN AREAS WHERE STORMWATER OVERLAND FLOW OR STORMWATER SURFACE PONDING IS DESIGNED TO TAKE PLACE, A WATERTIGHT MAINTENANCE HOLE COVER SHALL BE USED AS PER OPSD 401.050. NO MORE THAN TWO CONSECUTIVE MAINTENANCE HOLES IN SERIES MAY HAVE WATER COVERS WITHOUT PROVIDING SUFFICIENT VENTILATION.
9. MANHOLE COVERS SHALL BE JW150 CLOSETED COVER OR 401.010A (OR APPROVED EQUAL) AND INSTALLED AS PER MUNICIPAL STANDARD.
10. HOUSE CONNECTIONS SHALL BE PVC SDR 28 WITH RUBBER GASKET CONNECTIONS AND SHALL BE 125mmØ SERVICE CONNECTIONS TO HAVE A MINIMUM 2.0% SLOPE. SANITARY SERVICES TO BE TERMINATED AT LIMITS OF SERVICE CORRIDOR WITH INVERT MINIMUM 0.5m BELOW UNDERSIDE OF FOOTING OF UNIT. EACH PROPERTY IS PERMITTED ONLY ONE SERVICE CONNECTION. WYE (DOUBLE) CONNECTIONS ARE NOT PERMITTED.
11. SHOP MANUFACTURED "TEE" CONNECTIONS SHALL BE USED FOR HOUSE SERVICE CONNECTIONS ON 200mm and 250mm SEWERS.
12. 125mmØ SERVICE CONNECTIONS SHALL BE LOCATED AT THE LIMITS OF THE SERVING CORRIDOR WITH A 125mmX100mm REDUCED, WATER TIGHT PLUG SUITABLY BRACED TO WITHSTAND TEST PRESSURES & 89mm x 38mm WOODEN MARKER PLACED FROM THE INVERT OF THE CONNECTION TO 600mm ABOVE GRADE PAINTED GREEN.
13. ALL LPS CURB STOPS ARE TO HAVE 89mm x 38mm WOODEN MARKER PLACED FROM THE INVERT OF THE CONNECTION TO 600mm ABOVE GRADE PAINTED GREEN. LPS CURB STOPS MUST BE EASILY DIFFERENTIATED FROM WATER CURB STOPS.
14. FROST STRAPS REQUIRED ON ALL MANHOLES AS PER OPSD 701.100. FROST STRAPS SHALL BE CONTINUOUS AND EXTEND A MINIMUM OF 4m BELOW GRADE.
15. THE COMPLETE SEWER SYSTEM INCLUDING SERVICE CONNECTIONS TO THE PROPERTY LINE AND MAINTENANCE HOLES SHALL BE TESTED IN ACCORDANCE WITH OPSB AND THE BLUE MOUNTAIN SANITARY SEWER COMMISSIONING PROTOCOL. ALL SERVICE CONNECTIONS TO BE TESTED IN ACCORDANCE WITH ALL RELEVANT SERVICE CONNECTIONS. ALL PIPE WORKS SHALL HAVE A CCTV INSPECTION AS PER OPSB 409 COMPLETED AS PART OF THE PRELIMINARY AND FINAL ACCEPTANCE INSPECTIONS.



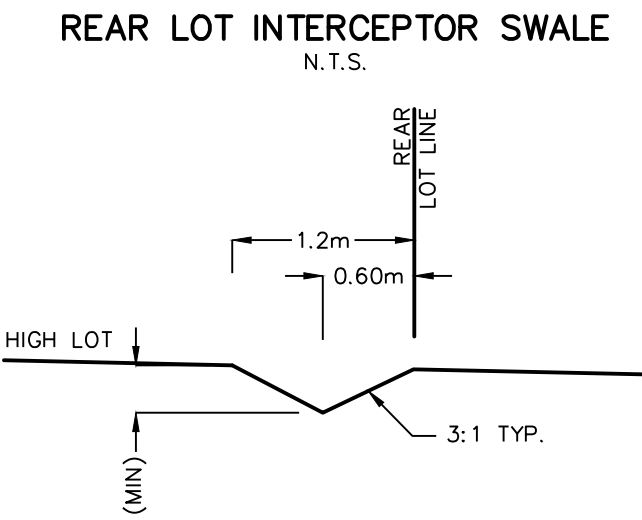
Nottawasaga Valley Conservation Authority					APRD:	DATE: 03.03.06
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TYPICAL DETAIL OF SILT/SEDIMENT FENCE	NO.	REVISION	APR'D	DATE		

TYPICAL LOT GRADING RELATIONSHIPS
SCALE: N.T.S.

ELEVATION 'B'
HIGH LOT CORNER
ADJACENT DWELLING
2.0m RADIUS (MIN)
BREAK POINT
ADJACENT DWELLING
DRIVEWAY
SIDE YARD SWALE TO BE MIN. 0.15m AND CONTINUOUS BETWEEN LOTS.
INTERCEPTOR SWALE. SEE NOTE 8.
ADJACENT DWELLING
2.0m RADIUS (MIN)
PLAN 'B' SPLIT LOT DRAINAGE

ELEVATION 'A'
HIGH LOT CORNER
ADJACENT DWELLING
SIDE YARD SWALE. SEE NOTE 9.
ADJACENT DWELLING
BREAK POINT VARIES. SEE NOTE 7.
DRIVEWAY
FRONT
SIDE YARD SWALE
ADJACENT DWELLING
PLAN 'A' REAR TO FRONT DRAINAGE

2. DRAIN DROPS TO DISCHARGE TO SWALES AS SPECIFIED.
3. MAXIMUM SLOPE ON DRIVEWAY TO BE 8.0% AS MEASURED ALONG THE % OF DRIVEWAY.
4. A 0.6% MINIMUM SLOPE TO BE MAINTAINED OF THE REAR YARD AREA SHALL BE GRADED AT 2%-5% SLOPE.
5. GRADE AROUND HOUSES SHALL BE MINIMUM OF 2% AWAY FROM HOUSES.
6. RETAINING WALLS, TIMBER OR OF ANY OTHER MATERIAL TO BE APPROVED BY THE TOWN OF THE BLUE MOUNTAINS BUILDING DEPARTMENT.
7. TOP OF FOUNDATION WALL TO BE MINIMUM 0.15m (MIN.) ABOVE FINISHED GRADE.
8. TERRACE REQUIRED IF SLOPE IN FRONT YARD EXCEEDS 6.0% TERRACING HEIGHT DIFFERENCE TO BE A MAXIMUM OF 1.0m WITH A SLOPE OF 3:1.
9. CUTTING SWALES TO BE CONSTRUCTED AT A MINIMUM 2.0% GRADE AND TO BE CONTINUOUS WITH SIDE YARD SWALE. CUT-OFF SWALES TO BE A MINIMUM OF 0.15m LOWER THAN GRADE AT HOUSE FOR LOTS WITH BACK TO FRONT DRAINAGE THAT DO NOT DRAIN ABUTTING LOTS TO THE REAR.
10. INTERCEPTOR SWALES TO BE CONSTRUCTED AT A MINIMUM 2.0% GRADE. FLOW FROM INTERCEPTOR SWALE TO SIDE YARD SWALE BY MINIMUM 0.6% GRADE (MIN.) CURVE. HIGH POINT TO BE CONSTRUCTED 2.0m (MIN.) FROM THE % OF THE SIDE YARD SWALE ON THE LOWER LOT.
11. INTERCEPTOR SWALES TO BE CONSTRUCTED ON THE HIGH LOT. INTERCEPTOR SWALES TO BE MINIMUM 0.15m DEEP.
12. SIDE YARD SWALE DEPTH TO BE A MINIMUM 0.15m FOR ALL LOTS.
13. SIDE YARD SWALE TO BE CONTINUOUS AT A MINIMUM 2.0% GRADE AND A MAXIMUM 6.0% GRADE (MIN.) CURVE.
14. 150mm TOPSOIL SHALL BE APPLIED TO EACH LOT PRIOR TO SODDING.



THIS DRAWING IS THE EXCLUSIVE PROPERTY OF C.F. CROZIER & ASSOCIATES INC. AND THE MODIFICATION AND/OR REPRODUCTION OF ANY PART OF THIS DRAWING IS STRICTLY PROHIBITED WITHOUT WRITTEN AUTHORIZATION FROM THIS OFFICE. 2. THE DIGITAL FILES CONTAIN INTELLECTUAL AND DIGITAL DATA PROPERTY THAT IS THE EXCLUSIVE PROPERTY OF C.F. CROZIER & ASSOCIATES INC. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS, LEVELS, AND DATUMS ON SITE AND REPORT ANY DISCREPANCIES OR OMISSIONS TO C.F. CROZIER & ASSOCIATES INC. PRIOR TO CONSTRUCTION. 4. THIS DRAWING IS TO BE READ AND UNDERSTOOD IN CONJUNCTION WITH ALL OTHER PLANS AND DOCUMENTS APPLICABLE TO THIS PROJECT. 5. ALL EXISTING UNDERGROUND UTILITIES TO BE VERIFIED IN THE FIELD BY THE CONTRACTOR PRIOR TO CONSTRUCTION. 6. DO NOT SCALE DRAWINGS.		TEMPORARY BENCHMARKS SBM#1-ELEVATION:227.78 CONCRETE PIN IN HYDRO POLE AT SOUTH EAST CORNER OF GREY ROAD No. 19 AND STREET B INTERSECTION.	Town	<table><tr><th>No.</th><th>ISSUE</th><th>DATE: YYYY/MM/DD</th></tr><tr><td>0</td><td>ISSUED FOR 1st SUBMISSION SPA</td><td>2026/06/26</td></tr><tr><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td></tr></table>	No.	ISSUE	DATE: YYYY/MM/DD	0	ISSUED FOR 1st SUBMISSION SPA	2026/06/26																												Engineer	Engineer	Project HOME FARM RENTAL DEVELOPMENT TOWN OF THE BLUE MOUNTAINS Drawing CONSTRUCTION NOTES AND DETAILS	<table><tr><td>Drawn By</td><td>B.B.</td><td>Design By</td><td>B.B.</td><td>Project</td><td>721-3464</td></tr><tr><td>Check By</td><td>B.H./J.E./R.W.</td><td>Check By</td><td>B.H./J.E./R.W.</td><td>Drawing</td><td>C901</td></tr></table>	Drawn By	B.B.	Design By	B.B.	Project	721-3464	Check By	B.H./J.E./R.W.	Check By	B.H./J.E./R.W.	Drawing	C901
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