MILLCROFT GREENS CORPORATION

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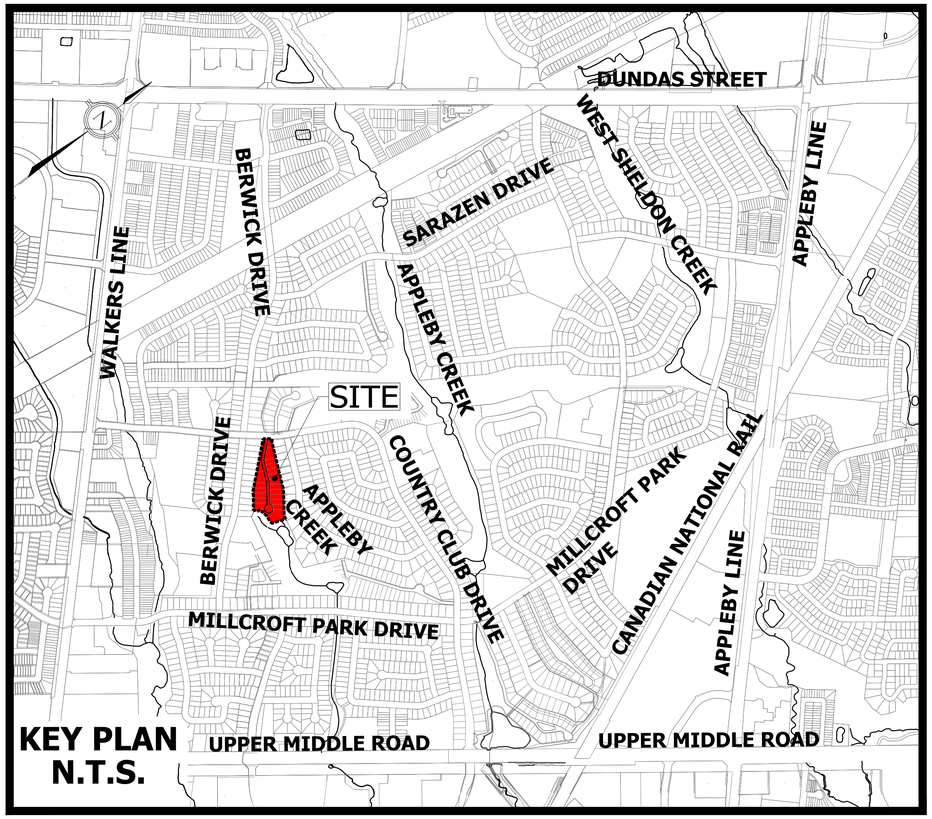
BLOCK H

PLAN OF SURVEY OF BLOCK 107 PLAN 20M-414 AND PART OF LOT 8, CONCESSION 1, SOUTH OF DUNDAS STREET (GEOGRAPHIC TOWNSHIP OF NELSON)

FIRST SUBMISSION - SEPT. 25, 2025

CITY No.

REGION DEVELOPMENT PROJECT No.



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LEGEND:

SITE LIMITS

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File: F:\PROJECTS\25-342 MILLCROFT PHASE 2\DRAWINGS\PRELIMINARY ENGINEERING & FIGURES\AREA H\000 - COVER & NOTES\000_COVER.DWG - REVISED BY:<agrimm> - 05, December 05, 2025 8:20 PM

GENERAL NOTES:

1. THE LOCATION OF ALL UNDERGROUND AND ABOVEGROUND UTILITIES AND STRUCTURES IS NOT NECESSARILY SHOWN ON THESE DRAWINGS, AND, WHERE SHOWN, THE ACCURACY OF THE LOCATION 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.
2. ALL AREAS DISTURBED BY THE CONTRACTOR DURING THE CONSTRUCTION OF THE WORKS SHOWN HEREIN SHALL BE RESTORED TO ORIGINAL CONDITION OR BETTER TO THE SATISFACTION OF THE CITY OF BURLINGTON AND THE REGION OF HALTON, ESPECIALLY IN THE REGIONAL ROAD ALLOWANCE FROM EQUIPMENT, ETC. A MINIMUM OF 150mm OF TOPSOIL AND No. 1 GRADE NURSERY SOD WILL BE REQUIRED FOR IMPACTED AREAS.
3. ANY PUBLIC RIGHT OF WAY DISTURBED DURING CONSTRUCTION TO BE RESTORED TO ORIGINAL CONDITION OR BETTER, TO THE SATISFACTION OF THE REGIONAL MUNICIPALITY OF HALTON. GRASSED AREAS TO BE TOPPED WITH 150mm TOPSOIL AND SODDED. ALL EXISTING SERVICES TO BE ADJUSTED TO SUIT NEW GRADES.
4. CITY OF BURLINGTON AND REGION OF HALTON STANDARD DRAWINGS AND O.P.S.D. WITH REGIONAL AMENDMENTS FOR SANITARY SEWERS AND WATERMAINS SHALL CONSTITUTE PART OF THE ENGINEERING DESIGN AND CONSTRUCTION CONTRACT. ALSO, REGION OF HALTON'S WATER AND WASTEWATER LINEAR DESIGN MANUAL OCTOBER 2019 VERSION 5.0 SHALL CONSTITUTE AS PART OF THE ENGINEERING DESIGN AND CONSTRUCTION CONTRACT, WHERE APPLICABLE.
5. ALTERNATIVE MATERIALS MAY BE ACCEPTABLE, PROVIDED APPROVAL HAS FIRST BEEN OBTAINED FROM THE PROJECT ENGINEER AND THE REGIONAL COMMISSIONER OF PUBLIC WORKS AND THE CITY OF BURLINGTON DIRECTOR OF ENGINEERING SERVICES.
6. NO BLASTING IS PERMITTED.
7. GRANULAR BACKFILL AROUND MANHOLES AND CATCHBASINS SHALL BE COMPACTED BY MECHANICAL MEANS TO A MINIMUM OF 98% S.P.D.
8. ROOF WATER DOWNSPOUTS MUST SPILL ONTO GROUND VIA CONCRETE SPLASH PADS.
9. CLASS `B' BEDDING ON ALL SEWERS AND CONNECTIONS TO BE AS PER CITY OF BURLINGTON AND REGION OF HALTON STANDARDS.
10. ANY AREAS WITHIN THE ROW WHICH REQUIRE FILL IN EXCESS OF 0.30m ARE SUBJECT TO COMPACTION TESTING TO THE SATISFACTION OF THE CITY AND ENGINEER. LIFTS SHOULD NOT BE NO MORE THAN 200mm (OR LESS IF THE BACKFILLING CONDITIONS DICTATE) AND UNIFORMLY COMPACTED TO ACHIEVE AT LEAST 95% OF THE MAXIMUM STANDARD PROCTOR DRY DENSITY WITH THE MOISTURE CONTENT ON THE WET SIDE OF THE OPTIMUM. TEST RESULTS MUST SHOW A MINIMUM COMPACTION OF 95% SPD AT ALL DEPTHS.
11. MANHOLE AND CATCHBASIN COVERS ARE TO BE SET FLUSH WITH BASE COURSE ASPHALT AND ADJUSTED TO FINAL GRADE PRIOR TO INSTALLING TOP LIFT OF ASPHALT. FINAL ADJUSTMENTS AS PER S-130.
12. ALL TRENCHES WITHIN EXISTING R.O.W. ARE TO BE BACKFILLED WITH GRANULAR B AS PER CITY STANDARDS.
13. EROSION AND SILTATION CONTROL WORKS SHALL BE IN CONFORMANCE WITH THE EROSION AND SEDIMENT CONTROL PLAN. THE CONTRACTOR AND ENGINEER SHALL ENSURE THEY ARE IN PLACE PRIOR TO START OF CONSTRUCTION AND MAINTAINED THROUGHOUT.
14. BENCHMARK - ELEVATIONS ARE GEODETIC AND ARE REFERRED TO THE CITY OF BURLINGTON VERTICAL BENCHMARK NUMBER 414 HAVING AN ORTHOMETRIC ELEVATION OF 139.893 METRES. ELEVATIONS ARE REFERENCED TO THE CANADIAN GEODETIC VERTICAL DATUM OF 1928, 1978 ADJUSTMENT (CGVD-1928:1978).BRASS PLAQUE SET ON SOUTHWEST CORNER OF WING WALL OF CULVERT 0.50M FROM SOUTH END AND 0.13M BELOW TOP OF WALL ON MILLCROFT PARK DRIVE AND APPROXIMATELY 40M EAST OF COUNTRY CLUB DRIVE ON THE SOUTH SIDE OF THE ROAD.
15. THE WORK PERFORMED UNDER APPROVAL OF THESE DRAWINGS SHALL HAVE A MINIMUM TWO (2) YEAR GUARANTEE AND MAINTENANCE PERIOD THAT WILL STAY IN EFFECT UNTIL ACCEPTANCE BY THE APPLICABLE AGENCY (CITY/REGION) OR THE PROJECT ENGINEER UNTIL THERE ARE NO DEFICIENCIES RECORDED.
16. ANY SOILS INFORMATION SHOWN ON THE DRAWINGS IS FOR THE REFERENCE OF THE ENGINEER ONLY AND IS FROM THE SOIL REPORTS PREPARED BY DS CONSULTANTS LTD. FILE # 19-199-106 DATED AUGUST 21 2025. THE ENGINEER ACCEPTS NO RESPONSIBILITY FOR THE INTERPRETATION OF SAID REPORT OR SOIL INFORMATION SHOWN.
17. A MINIMUM HORIZONTAL SEPARATION OF 2.5 METERS MUST BE MAINTAINED BETWEEN WATERMAINS AND SANITARY OR STORM SEWERS, INCLUDING SERVICE LATERALS.
18. CONTRACTOR IS RESPONSIBLE FOR MAINTAINING GRADING, DRAINAGE, AND SILTATION CONTROL DEVICES IN GOOD WORKING ORDER DURING AND AFTER CONSTRUCTION FOR ALL WORKS WITHIN THE RIGHT-OF-WAYS.
19. COMPACTION OF BACKFILL FOR ALL SEWERS AND WATERMAIN SHALL HAVE LIFT THICKNESS NOT EXCEEDING SPECIFICATIONS IN THE GEOTECHNICAL INVESTIGATION PREPARED BY DS CONSULTANTS LTD. FILE # 19-199-106 DATED AUGUST 21 2025.
20. ANY RELOCATION OF SERVICES/UTILITIES/STREET TREES/ETC. IS THE RESPONSIBILITY OF THE OWNER/DEVELOPER.
21. ALL CONSTRUCTION SIGNAGE SHALL CONFORM TO BOOK 7 - TEMPORARY CONDITIONS OF THE ONTARIO TRAFFIC CONTROL MANUAL.
22. ALL WORK TO BE COMPLETED IN ACCORDANCE WITH THE "OCCUPATIONAL HEALTH AND SAFETY ACT". THE GENERAL CONTRACTOR IS DEEMED TO BE THE CONSTRUCTOR AS DEFINED IN THE ACT.
23. THE CONSULTANT AND CONTRACTOR SHALL ENSURE THAT THE REGIONAL AND CITY ROADS ARE KEPT CLEAN AT ALL TIMES. THEY SHALL BE INSPECTED MULTIPLE TIMES DAILY AND CLEANED IMMEDIATELY AS OBSERVED AS NEEDED OR AS INSTRUCTED BY THE REGION AND THE CITY.
24. ALL TRENCHES WITHIN ANY PUBLIC R.O.W. ARE TO BE REINSTATED AS PER CITY OF BURLINGTON STANDARD DRAWINGS S-114A & S-114B AND TO THE SATISFACTION OF THE CITY INSPECTOR.
25. CONSTRUCTION ACCESS LOCATION(S) MUST MEET THE REQUIREMENTS OF THE CITY OF BURLINGTON AND REGION OF HALTON, INCLUDING PERMITS.
26. CONTRACTOR TO USE APPROVED MANUFACTURERS PRODUCTS LIST FOR WATER SYSTEMS, REV. 9, JULY 2020. AT THE TIME OF CONSTRUCTION THE REGION'S NEWEST LIST WILL APPLY.
27. CONTRACTOR TO USE APPROVED MANUFACTURERS PRODUCTS LIST FOR WASTEWATER SYSTEMS, REV. 7, FEBRUARY 2020. AT THE TIME OF CONSTRUCTION THE REGION'S NEWEST LIST WILL APPLY.
28. THE CONTRACTOR AND ENGINEERING CONSULTANT MUST FAMILIARIZE THEMSELVES WITH HALTON REGION'S AMENDMENTS TO THE ONTARIO PROVINCIAL STANDARD SPECIFICATIONS (OPSS), APRIL 2019, AND INTEGRATE THEM INTO THE DESIGN. THE MOST CURRENT AMENDMENTS WILL APPLY AT THE TIME OF CONSTRUCTION.
29. AS CONSTRUCTED DRAWINGS FOR PUBLIC WORKS TO BE PROVIDED IN ACCORDANCE WITH CITY/REGION STANDARDS IN SUPPORT OF COMMISSIONING.
30. ALL MODIFICATIONS WITHIN THE HALTON REGION PROPERTY REQUIRE A DEVELOPMENT SERVICING AGREEMENT. NO PUBLIC ROAD ALLOWANCE MODIFICATIONS OR OCCUPANCY IS PERMITTED UNLESS INCLUDED INTO A DEVELOPMENT SERVICING AGREEMENT. THE DEVELOPMENT SERVICING AGREEMENT MUST BE EXECUTED PRIOR TO ANY DEVELOPMENT RELATED MODIFICATIONS TO THE REGIONAL ROAD ALLOWANCE.
31. UNAUTHORIZED OCCUPANCY OF THE REGION'S PUBLIC PROPERTY IS NOT PERMITTED, INCLUDING ANY EQUIPMENT OR MATERIAL STORAGE, AND INCLUDING TRADE AND/OR CONTRACTOR PARKING.
32. NO ENCROACHMENT OBJECTS ARE PERMITTED TO BE INSTALLED ON THE REGION'S PUBLIC PROPERTY SUCH AS FENCING, BOULDERS OR OTHER HARDSCAPING. ALL OBJECTS CONSIDERED ENCROACHMENTS ARE TO REMAIN ON THE PRIVATE SIDE OF PROPERTY LINE.
33. NO PRIVATE ADVERTISING SIGNAGE IS PERMITTED TO BE INSTALLED ON THE REGION'S PUBLIC PROPERTY AS PER BY-LAW 36-01. ANY SIGNAGE ON PRIVATE PROPERTY MUST MEET CITY OF BURLINGTON SET-BACK REQUIREMENTS FROM THE PROPERTY LINE.
34. NO SHORING/TIE-BACKS ARE PERMITTED WITHIN THE REGION'S ROAD ALLOWANCE.
35. NO ABOVE GRADE OBJECTS ARE TO BE INSTALLED WITHIN 0.5M OF PEDESTRIAN PATHWAY FOR PATHWAY MAINTENANCE PURPOSES.
36. ALL MODIFICATIONS TO AND NEWLY PROPOSED PEDESTRIAN INFRASTRUCTURE WITHIN THE REGIONAL ROAD ALLOWANCE MUST MEET AODA AND REGULATORY COMPLIANCE.
37. PATHWAYS ACROSS THE WIDTH OF AN ACCESS ARE REQUIRED TO BE DESIGNED TO WITHSTAND HEAVY VEHICLE LOADING.
38. ANY WORKS WITHIN THE MUNICIPAL RIGHT OF WAY MAY REQUIRE A MUNICIPAL CONSENT PERMIT, CONTACT engpermitrequests@burlington.ca FOR DETAILS. CONTRACTOR TO APPLY FOR MUNICIPAL CONSENT.
39. PROTECTIVE MEASURES SHALL BE EMPLOYED FOR TREE PROTECTION, AS PER THE LOCAL CITY/TOWN AND REGION STANDARDS.
40. THE PROJECT'S CIVIL ENGINEERING CONSULTING FIRM IS REQUIRED TO HAVE FULL-TIME INSPECTION STAFF ON SITE FOR THE FULL AMOUNT OF TIME THE CONTRACTOR IS ON SITE. THE CONSULTING ENGINEERING FIRM'S INSPECTOR WILL BE THE REGION'S AND THE CITY'S SOLE CONTACT FOR ALL PUBLIC COMPLAINTS AND EMERGENCY ISSUES, ETC. AS THEY ARISE. THE CONSULTING FIRM IS REQUIRED TO PROVIDE A STAFF PERSON'S 24-HOUR EMERGENCY CONTACT NAME AND PHONE NUMBER FOR THE DURATION OF THE CONSTRUCTION WORKS PROJECT.

RESTORATION OF PUBLIC RIGHT OF WAY NOTES:

1. ALL AREAS DISTURBED BY THE CONTRACTOR DURING THE CONSTRUCTION OF THE WORKS ARE TO BE RESTORED TO ORIGINAL CONDITION OR BETTER AS PER S-114, S-114A, S-114B, AS DETERMINED BY THE ENGINEER, AND TO THE SATISFACTION OF CITY STAFF. ALL GRASS AND VEGETATION COVERED AREAS TO BE RESTORED BY PLACING 150mm OF TOPSOIL AND No. 1 GRADE NURSERY SOD TO THE SATISFACTION OF THE CITY OF BURLINGTON AND THE REGION OF HALTON, UNLESS OTHERWISE NOTED.
2. ROCK CHECK DAMS AND STRAW BALES ARE TO BE LOCATED IN ALL EXISTING DITCHES AS DIRECTED BY THE ENGINEER, THE CITY OF BURLINGTON AND/OR REGION OF HALTON.
3. CONTRACTOR IS RESPONSIBLE FOR MAINTAINING GRADE, DRAINAGE AND SILTATION CONTROL DEVICES IN GOOD WORKING ORDER DURING AND AFTER CONSTRUCTION FOR ALL WORKS WITHIN THE RIGHT OF WAY.

SANITARY SEWER NOTES:

1. MANHOLES AS PER O.P.S.D. 701.010 WITH FRAME AND COVER AS PER O.P.S.D. 401.010 TYPE 'A'.
2. SEWER PIPE TO BE PVC SDR 35 (GREEN IN COLOR), OR RIBBED CONFORMING TO CSA B-182.4, OPSS 1841, OPSD 806.040 AND 806.060 AS PER RH WWLDM 3.7.1.b.
3. ALL SERVICE CONNECTIONS TO BE 125mm DIA DR 28 (GREEN IN COLOR) FOR SINGLE LOT CONNECTIONS. DUAL CONNECTIONS ARE NOT PERMITTED. LOCATIONS AND ELEVATIONS AS PER PLAN AND PROFILE DRAWINGS.
4. SERVICE CONNECTIONS EXCEEDING 4.50m REQUIRE RISERS AS PER OPSD 1006.010.
5. SAFETY GRATES ARE NOT ALLOWED IN HALTON REGION.
6. COVER SHALL BE MINIMUM 2.75m BELOW THE CENTERLINE OF THE ROAD ALLOWANCE AND NOT LESS THAN 1.4m FROM THE GROUND SURFACE.
7. UNLESS OTHERWISE INDICATED BY GEOTECHNICAL REPORT, GRANULAR 'A' SHALL BE USED FOR BEDDING AND COVER AND GRANULAR 'B' TYPE I OR APPROVED SELECT NATIVE MATERIAL SHALL BE USED FOR TRENCH BACKFILL. MATERIAL SHALL ALSO CONFORM TO OPSD 802.030, 802.031 & 802.033 (RH AMD. APR. 2019).
8. BENCHING TO OBVERT IS REQUIRED TO PROVIDE A SMOOTH TRANSITION THROUGH THE MANHOLE.
9. ALL SANITARY SEWER MANHOLE LIDS ARE TO BE CAST WITH THE WORDS 'DANGER' AND 'SANITARY'.
10. ALL MANHOLES ARE TO BE WATERPROOFED AND TESTED TO CONFIRM THAT THEY ARE WATER TIGHT. WATERPROOFING SHALL BE INSTALLED ON THE EXTERIOR OF ALL MANHOLES. WATERPROOFING SHALL BE A NON-TOXIC, NON-FLAMMABLE, FAST CURING MATERIAL TO ANSI/NSF STANDARD 61, BARRIER MATERIALS.
11. INLET AND OUTLET PIPES JOINING THE SANITARY MANHOLES, WHETHER EXISTING MANHOLES OR NEW, SHALL HAVE GASKETTED FLEXIBLE WATERTIGHT CONNECTIONS, AS PER MOE 5.9.6.
12. ALL NEW WASTEWATER MAINS CONNECTING TO THE EXISTING SYSTEM SHALL BE PLUGGED AT THE CONNECTION POINT TO THE ACTIVE SYSTEM UNTIL WRITTEN APPROVAL FROM HALTON REGION HAS BEEN RECEIVED TO ACCEPT FLOWS.
13. THE CONTRACTOR WILL UNDERTAKE THE CLOSED CIRCUIT TELEVISION INSPECTION (CCTV) OF THE WASTEWATER MAINS (SANITARY SEWERS) PRIOR TO PRELIMINARY ACCEPTANCE AND PRIOR TO FINAL ACCEPTANCE, AND IN BOTH CASES CERTIFY THE DEFICIENT FREE CONDITION OF THE WASTEWATER MAINS IN REPORTS TO THE SATISFACTION OF THE ENGINEER.
14. AIR AND MANDREL TESTING OF THE SANITARY SEWERS IS TO BE CONDUCTED POST CONSTRUCTION, UTILIZING AN APPROVED CONTRACTOR.
15. SANITARY SEWERS ARE NOT PERMITTED TO ACCEPT ANY STORM DRAINAGE INCLUDING FOUNDATION, ROOF DRAINAGE AND WEEPING TILE CONNECTIONS.
16. SERVICE CONNECTIONS TO SEWER MAIN SHALL BE PERPENDICULAR AND IN LIMITED CASES AT A MAXIMUM OF 45 DEGREES FROM THE HORIZONTAL. INSTALLATION SHALL BE AS PER OPSD 1006.010 & 4006.020 AS AMENDED AND AS PER HALTON REGION STANDARDS RH 302.01 AND 302.02.

WATERMAIN NOTES:

1. ALL CONSTRUCTION TO CONFORM TO HALTON REGION'S WATER AND WASTEWATER LINEAR DESIGN MANUAL, VERSION 5 OCTOBER 2019.
2. WATERMAINS 150mm TO 300mm TO BE P.V.C. CL.235 (DR-18) WITH GASKETED JOINTS AS PER AWWA C-900, C-905 & C-907.
3. MAXIMUM ALLOWABLE PIPE JOINT DEFLECTION SHALL BE 50% OF THE MANUFACTURER'S SPECIFICATIONS. JOINT DEFLECTION TO BE AVOIDED, BENDS TO BE USED WHERE POSSIBLE. BARREL DEFLECTION IS NOT PERMITTED.
4. ALL WATER AND SERVICE CONNECTIONS UP TO 50mm DIAMETER TO BE TYPE 'K' SOFT COPPER TUBING MEETING AWWA C800 (LATEST VERSION) AND AS PER OPSD 1104.010 AND 1104.020.
5. A MIN. HORIZONTAL SEPARATION OF 2.5m BETWEEN WATERMAINS AND SEWERS, INCLUDING SERVICE LATERALS MUST BE MAINTAINED. A MINIMUM VERTICAL SEPARATION OF 0.15m MUST BE MAINTAINED IF WATERMAIN CROSSES ABOVE SEWERS. IF WATERMAIN CROSSES BELOW, A MINIMUM OF 0.50m MUST BE MAINTAINED. THE DISTANCE SHALL BE MEASURED FROM THE NEAREST EDGES OR OUTSIDE SURFACES.
6. WATERMAIN BEDDING REQUIREMENTS SHALL BE DETERMINED BY THE DEPTH OF BURY OF THE PIPE, SOIL TYPE AND TRENCH CONDITIONS. AS A MINIMUM, WATERMAIN SHALL BE LAID ON 150mm OF GRANULAR 'A' BEDDING AND CONFORM TO OPSD 801.010 AND OPSS 401 (FLEXIBLE PIPES). REGIONAL MUNICIPALITY OF HALTON APPROVED MECHANICAL RESTRAINTS SHALL BE USED ON ALL STANDARD BENDS.
7. ALL HYDRANTS AS PER OPSD 1105.010 (AS AMENDED BY REGION OF HALTON) AND SHALL MEET THE REQUIREMENTS OF A.W.W.A. C-502 SPECIFICATIONS.
   - TWO (2) 63.5mm (2 1/2") WITH CSA STANDARD THREAD, 63.6 I.D., 79.5mm O.D., 5 THREADS PER 25mm, 31.75mm SQUARE OPERATING NUT; AND
   - ONE (1) 100mm (4") STORZ PUMPER CONNECTION AS PER CAN/ULC #S-520, 31.75mm SQUARE OPERATING NUT, STORZ CAP PAINTED GLOSS BLACK.
   - ALL HYDRANT LATERALS SHALL HAVE A 150mm SECONDARY VALVE & BOX AND ANCHOR TEE RIGHT AT THE MAIN.
   - IF HYDRANT BARREL DEPTH EXCEEDS 1.7m, A HYDRANT THAT CAN BE RAISED FROM THE BOTTOM WITHOUT INCREASING THE ROD LENGTH IS TO BE USED.
   - HYDRANT BREAKOFF FLANGE SHALL BE LOCATED BETWEEN 0mm AND 50mm ABOVE FINISHED GRADE AS PER HALTON REGION STANDARDS.
8. ALL SACRIFICIAL ANODES SHALL CONFORM TO A.S.T.M. B-418 TYPE II AND SHALL BE MADE OF HIGH GRADE ELECTROLYTIC ZINC, 99.99% PURE. MINIMUM WEIGHT OF ANODE TO BE 14.5kg.
9. ALL METALLIC WATERMAINS, FITTINGS, HYDRANTS AND RESTRAINERS TO HAVE ONE ZINC ANODE PER LENGTH OF PIPE IN SIZES ACCORDING TO THE FOLLOWING TABLE AND INSTALLED IN ACCORDANCE WITH OPSS 442 AND OPSD 1109.010 & 1109.011.

PIPE / FITTING SIZE (mm)	ZINC ANODE SIZE (KG)
150	11
200	11
300	11
400	11
450	11
HYDRANT	11

COPPER SERVICE (mm)	ZINC ANODE SIZE (KG)
20, 25, 40 AND 50	5.5 (<= 26m IN LENGTH)
20, 25, 40 AND 50	11 (> 26m IN LENGTH)

10. ANODE INSTALLATION IS NOT REQUIRED WITHIN VALVE-CHAMBERS, DRAIN CHAMBERS OR AIR RELEASE CHAMBER.
11. ALL WELD CONNECTIONS TO BE COATED WITH "TC MASTIC" OR APPROVED EQUIVALENT.
12. FOR ALL ANODES CONNECTED TO NEW PIPE, FITTINGS OR TO EXISTING METALLIC WATERMAINS, A CADWELDER AND CA-15 OR EQUIVALENT CARTRIDGE SHALL BE USED, ANODE INSTALLATION SHALL BE PERFORMED IN ACCORDANCE WITH THE MANUFACTURERS INSTRUCTIONS.
13. WHERE NEW PIPE IS TO BE CONNECTED TO EXISTING DUCTILE IRON OR CAST IRON PIPE A 14.5 KG MAGNESIUM ANODE IS TO BE CONNECTED TO THE FIRST LENGTH OF EXISTING PIPE AS PER OPSS 442 AND OPSD 1109.010 & 1109.011.
14. ALL VALVES TO OPEN LEFT (COUNTER-CLOCKWISE) AND SHALL HAVE 50mm SQUARE STANDARD AWWA OPERATING NUT.
15. BACKFILL SHALL BE 100% SPMDD BENEATH ROADS, SIDEWALKS, CURBS AND 95% SPMDD ELSEWHERE AND CONFORM TO OPSS MUNI. 401 GRANULAR 'B' TYPE I OR II OR APPROVED SELECT NATIVE MATERIAL. LOOSE MATERIAL SHALL BE COMPACTED TO 95% SPMDD BEFORE SUBSEQUENT LAYERS ARE PLACED.
16. THE TOP OF THE WATERMAIN SHALL HAVE A MINIMUM OF 1.7m COVER, MEASURED FROM THE TOP OF THE PIPE TO THE FINISHED GRADE, EXCEPT WHERE NOTED ON THE DRAWINGS.
17. ALL VALVE CHAMBERS SHALL BE PRECAST CONCRETE IN ACCORDANCE WITH REGIONAL MUNICIPALITY OF HALTON STANDARDS RH 402.020 AND RH 402.080.
18. GATE VALVES CONFORMING TO A.W.W.A. C509 OR C515 STANDARDS ARE REQUIRED ON WATERMAINS 300mm AND UNDER. LINE GATE VALVES SHALL HAVE SCREW TYPE VALVE BOXES.
19. ANY SERVICE CONNECTION (BOTH WATER AND WASTEWATER) THAT WILL NOT BE UTILIZED WILL BE REQUIRED TO BE DISCONNECTED AT THEIR RESPECTIVE MAINS, PRIOR TO ASSUMPTION OF THE WATER AND WASTEWATER SYSTEM BY THE REGION.
20. ALL WATERMAIN FITTINGS SHALL HAVE MECHANICAL JOINTS AND VALVES IN CHAMBERS SHALL BE FLANGED.

WATERMAIN NOTES:

21. TRACER WIRE SHALL BE INSTALLED ON ALL NEW INSTALLATIONS OF POLYVINYL CHLORIDE (PVC) WATERMAIN PIPE FOR LOCATING PURPOSES. A SOLID 10 GAUGE TWU COPPER WIRE SHALL BE INSTALLED ALONG THE TOP OF THE PIPE, STRAPPED TO THE PIPE AT 6m INTERVALS.
22. THE TRACER WIRE SHALL BE INSTALLED BETWEEN EACH VALVE AND/OR THE END OF THE NEW WATERMAIN TO ENSURE A CONTINUOUS SIGNAL FOR LOCATING THE MAIN. JOINTS IN THE TRACER WIRE BETWEEN VALVES ARE DISCOURAGED, BUT WHEN NECESSARY, MUST BE WATERPROOFED (REFER TO OPSD 1109.025) AND DONE IN SUCH A WAY TO ENSURE ELECTRICAL CONDUCTIVITY. AT EACH VALVE, A LOOP OF WIRE IS TO BE BROUGHT UP OUTSIDE THE VALVE BOX TO THE TOP OF THE BOX AS PER HALTON STANDARD DRAWING RH 406.010.
23. TRACER WIRE FOR HORIZONTAL DIRECTIONAL DRILLING AND PIPE BURSTING INSTALLATION SHALL BE IN ACCORDANCE WITH HALTON REGION'S AMENDMENTS TO OPSS.
24. ALL DOMESTIC CONNECTIONS SHALL BE 25mm DIAMETER. CURB STOP AND SERVICE BOX SHALL REQUIRE THE INSTALLATION OF STAINLESS-STEEL RODS AND STAINLESS STEEL COTTER PINS.
25. THE OPERATION OF THE EXISTING WATERMAIN SHALL BE BY REGION OF HALTON STAFF ONLY.
26. ALL VALVE CHAMBER COVERS ARE TO BE STAMPED 'DANGER' AND 'WATER'.
27. IN ADDITION TO STANDARD WATERMAIN CHLORINATION, PRESSURE TESTING AND WATER SAMPLING, ALL WATERMAINS WILL BE SWABBED THROUGH THE FIRE HYDRANTS OR AS DIRECTED BY THE REGION.
28. THE WATERMAINS MUST BE CONSTRUCTED ENTIRELY SEPARATE FROM THE EXISTING SYSTEM. CONNECTION TO THE EXISTING SYSTEM WILL ONLY BE ALLOWED ONCE THE NEW SYSTEM HAS HAD ALL OF ITS SWABBING PERFORMED, PRESSURE TESTING PASSED, CHLORINATION, FLUSHING AND BACTERIOLOGICAL TESTING RESULTS APPROVED.
29. COMPACTION OF BACKFILL FOR WATERMAIN SHALL HAVE LIFT THICKNESS NOT EXCEEDING SPECIFICATIONS IN THE GEOTECHNICAL INVESTIGATION PREPARED BY DS CONSULTANTS LTD. FILE # 19-199-100 R2 DATED NOVEMBER 2020.
30. MINIMUM SEPARATION FROM THE EDGE OF DRIVEWAY TO FACE OF HYDRANTS SHALL BE 1.2m.
31. ALL PLUGS, CAPS, TEES, BENDS AND FITTINGS SHALL BE MECHANICALLY RESTRAINED WITHIN THE WATER DISTRIBUTION SYSTEM OF HALTON REGION.

RECOMMENDED RESTRAINED LENGTHS OF PVC PIPE

Nom. Pipe Size (mm)	Hor. 45° Bend	Hor. 22.5° Bend	Hor. 11.25° Bend	Size of Size Tee	Valve/ Dead-End
150	1.34 m.	0.64 m.	0.34 m.	Br. Only	8.87 m.
200	1.77 m.	0.85 m.	0.43 m.	Br. Only	11.55 m.
300	2.50 m.	1.19 m.	0.61 m.	0.61 m.	16.58 m.

REDUCING TEES*

Nom. Size (mm)	Restrained Length	Nom. Size (mm)	Restrained Length
200 x 150	Br. Only	300 x 150	Br. Only
		300 x 200	Br. Only

* RECOMMENDED RESTRAINED LENGTHS FOR TEES ARE FOR THE BRANCH OUTLET AND ASSUME A MINIMUM 3 METER SECTION OF PIPE ATTACHED TO EACH SIDE OF THE RUN. RESTRAINT DEVICES SHOULD ALSO BE INSTALLED ON BOTH RUN JOINTS OF THE TEE ITSELF.

VERTICAL OFFSETS**

Nom. Size (mm)	45° Vertical Offset	22.5° Vertical Offset	11.25° Vertical Offset
150	3.69 m x 4.79 m	1.77 m x .79 m	0.18 m / 0.82 m
200	4.78 m x 2.16 m	2.29 m x 1.04 m	0.24 m / 1.07 m
300	6.86 m x 3.08 m	3.29 m x 1.46 m	0.34 m / 1.52 m

**FIRST NUMBER IS THE RECOMMENDED RESTRAINED LENGTH ON EACH SIDE OF THE DOWN BEND(S), THE SECOND NUMBER IS THE LENGTH FOR EACH SIDE OF THE UP BEND(S). IN THE EVENT THAT THE LENGTHS OVERLAP, ALL JOINTS OF THE OFFSET SHOULD BE RESTRAINED (LOW SIDE DEPTH = 3.048 m)

NOTE: ANY JOINTS THAT FALL WITHIN THESE RECOMMENDED LENGTHS SHOULD BE RESTRAINED. (ON EACH SIDE OF BENDS, ON THE BRANCH OUTLET OF TEES, AND BEFORE DEAD-ENDS.

Pipe	PVC, AWWA C-900
Soil	Soft to stiff, moist, mottled brown to reddish brown, silty clay, trace to some sand and gravel (Till)
Average Depth of Bury	1.7 m
Trench Type	2
Test Pressure	150 psi
Safety Factor	1.5 : 1 (based on test pressure)

32. ALL RESIDENTIAL WATER METERS ARE TO BE INSTALLED AS PER HALTON REGION STD. RH 500.010.
33. STAINLESS STEEL SERVICE SADDLES SHALL BE USED WHEN TAPPING WATER SERVICES.
34. AN ANCHOR TEE AND VALVE ASSEMBLY, RIGHT AT THE WATERMAIN, SHALL FEED ALL THE FIRE HYDRANTS.
35. OPSD 1105.010 TO BE AMENDED AS PER HALTON REGION' STANDARDS SO THAT DISTANCE BETWEEN THE BOTTOM OF THE BREAK OFF FLANGE AND FINISHED GRADE IS 0.0mm TO 50mm.
36. CONNECTION TO HALTON REGION'S LIVE WATER DISTRIBUTION SYSTEM WILL REQUIRE THE CONTRACTOR TO FOLLOW STANDARD OPERATING PROCEDURES AND UNDERTAKING MEASURES FOR THE WATERMAIN PIPE ISOLATION AND PRESSURE DOWN. THE ENGINEERING CONSULTANT TO WORK WITH THE REGION TO DETERMINE HOW MANY EXISTING PROPERTY OWNERS WILL BE AFFECTED BY THE WATERMAIN SHUT-DOWN AND PROVIDE A LETTER TO THE NEIGHBOURS ADVISING OF THE NOTICE OF INTERRUPTION OF THEIR WATER SERVICES.
37. ONLY HALTON REGION APPROVED, SPECIALIZED SUB-CONTRACTORS CAN BE UTILIZED FOR THE COMMISSIONING AND DISINFECTION OF WATERMAINS POST CONSTRUCTION.
38. WATERMAIN ISOLATION PLANS AND WATERMAIN COMMISSIONING PLANS ARE REQUIRED AT THE CONSTRUCTION STAGE FOR COMMISSIONING.
39. WATERMAINS FOR THE DEVELOPMENT MUST BE CONSTRUCTED ENTIRELY SEPARATE FROM THE EXISTING SYSTEM.

LOT GRADING NOTES:

1. LOT GRADING SHALL BE AS PER S-119M (LOT GRADING STANDARDS FOR SUBDIVISION LOTS). REFER TO DWG 701 FOR DETAIL.
2. THERE SHALL BE A 0.6m WIDE PATHWAY (AT 2.00% CROSS FALL SLOPE AWAY FROM THE FOUNDATION) AROUND ONE SIDE OF THE BUILDING TO ALLOW ACCESS TO THE REAR YARD AREA.
3. OUTSIDE GRADES AT FOUNDATION SHALL BE A MINIMUM OF 0.15m BELOW THE TOP OF THE FOUNDATION WALL.
4. THE BASE OF THE SWALE MUST BE A MINIMUM 0.2m BELOW THE OUTSIDE GRADE OF THE ADJACENT FOUNDATION.
5. WINDOW WELLS INCLUDING ACCURATE DIMENSIONS TO BE SHOWN ON THE LOT GRADING PLANS TO CONFIRM NO CONFLICTS WITH SWALES. WINDOW WELLS TO BE SET 0.2m ABOVE SWALE ELEVATION.
6. SWALES CONSTRUCTED AT <2% TO HAVE 150MM DIA SUBDRAIN WITH FILTER FABRIC SOCK EMBEDDED IN 300MM X 300MM OF 50MM CLEAR STONE AND CONNECTED TO NEAREST DOWNSTREAM CATCHBASIN.
7. ALL LOTS TO HAVE 300mm OF TOPSOIL.

UNDERGROUND STORM STORAGE:

1. STORM STORAGE TO BE STORMCON GREENSTORM MANAGEMENT SYSTEM AS SHOWN ON THE DRAWINGS.
2. NO SUBSTITUTIONS WILL BE ALLOWED FOR CHAMBER MATERIALS.
3. CONTRACTOR TO SUPPLY SHOP DRAWINGS FOR STORM STORAGE CHAMBER DESIGN. INVERTS FOR ALL INLETS AND OUTLETS TO BE SPECIFIED.
4. SHOP DRAWINGS TO BE SEALED BY A PROFESSIONAL ENGINEER CONSIDERING STRUCTURAL, FOUNDATION, AND UPLIFT REQUIREMENTS. FINAL INSTALLATION TO BE CERTIFIED BY THE PROFESSIONAL ENGINEER WHO SEALED THE SHOP DRAWINGS.
5. TANK PRICE TO INCLUDE COST OF IMPERVIOUS LINER WRAPPED OVER THE ENTIRE TOP OF STORAGE TANK UNLESS SPECIFIED OTHERWISE.

ROAD CONSTRUCTION NOTES:

1. ALL CURB AND GUTTER SHALL BE SEMI-MOUNTABLE OPSD 600.060 UNLESS OTHERWISE NOTED. CURBS THROUGH DRIVEWAYS TO BE FULL HEIGHT (I.E NO CURB CUTS AT DRIVEWAYS). STAGE CONSTRUCTION, UNLESS NOTED OTHERWISE.
2. SIDEWALK SHALL BE AS PER CITY OF BURLINGTON STD. S-121. ALL INTERSECTIONS ARE TO BE INSTALLED WITH DEPRESSIONS AS PER STD. S-123 UNLESS NOTED OTHERWISE. CURB AND SIDEWALK SHALL BE ADJACENT WHERE NOTED.
3. THE FOLLOWING PAVEMENT STRUCTURES SHALL BE USED, UNLESS OTHERWISE SPECIFIED:
4. PAVEMENT RESTORATION WITHIN PUBLIC ROW TO MATCH EXISTING AND TO THE SATISFACTION OF THE CITY.

PRIVATE ROAD (AS PER GEOTECH REPORT PREPARED BY DS CONSULTANTS LTD. FILE # 19-199-100 R2 DATED NOVEMBER 2020).

- 40mm - HL3 ASPHALT
- 50mm - HL8 ASPHALT
- 150mm - GRANULAR 'A'
- 350mm - GRANULAR 'B'

5. ROAD CROSS-SECTION LAYOUT SHALL BE IN ACCORDANCE WITH CITY STANDARDS
6. FULL LENGTH 100mm DIA. SUBDRAINS ARE TO BE INSTALLED UNDER CURBS UNLESS NOTED OTHERWISE.ON MONOSLOPED ROADS SUBDRAINS ONLY REQUIRED ON THE LOW SIDE OF THE ROAD.
7. CONTRACTOR TO ENSURE SUB-GRADE IS COMPACTED AS PER GEOTECHNICAL ENGINEER AND AS PER CITY OF BURLINGTON REQUIREMENTS.
8. BOULEVARDS TO HAVE A MINIMUM OF 150mm TOPSOIL AND No. 1 GRADE NURSERY SOD WITHIN THE RIGHT OF WAY.
9. ENTRANCES TO PRIVATE STREETS AS PER CITY STD. S-112.
10. CURB RUN OUTS AS PER OPSD 604.010 WITH ASPHALT SPILLWAY PER OPSD 605.040

STORM SEWER NOTES:

1. STORM MANHOLES AS PER O.P.S.D. 701.010, 701.070, WITH FRAME AND COVER AS PER O.P.S.D. 401.01 TYPE A AND STAMPED "DANGER AND STORM" WITH SIZE NOTED ON PLAN AND PROFILE DRAWINGS.
2. ALL STORM SEWERS UP TO AND INCLUDING 375mm DIAMETER ARE TO BE PVC SDR-35, IN ACCORDANCE WITH CSA B182.4 - 1992 OR LATEST AMENDMENT UNLESS OTHERWISE SPECIFIED. PVC SEWER MEETS THE CSA AND ASTM REQUIREMENTS AS NOTED WITHIN OPSS 1841. ALL STORM SEWERS 450mm OR LARGER ARE REINFORCED CONCRETE SEWER IN ACCORDANCE WITH CSA SPECIFICATION A2572. STANDARD MINIMUM CLASS OF CONCRETE SEWER AS PER OPSD 807.01. RIGID PIPE REQUIRES CONCRETE ENCASEMENT FOR THE FIRST PIPE LENGTH CONNECTING TO ANY APPURTENANCES.
3. CATCHBASINS SHALL CONFORM TO O.P.S.D. 705.010 FOR SINGLES AND O.P.S.D. 705.020 FOR DOUBLES. CATCHBASIN GRATES AS PER O.P.S.D. 400.10 CATCHBASIN CONNECTIONS TO BE AS PER TABLE 5.3 OF THE CITY'S SWM DESIGN GUIDELINES: SINGLE CB - 250mm DIA.; DOUBLE CB - 300mm DIA. CATCHBASIN LEADS TO BE A.S.T.M. D3034 PVC. SDR-35. STREET CB LEADS TO HAVE A MIN. SLOPE OF 2.00% UNLESS NOTED OTHERWISE. ALL CATCH BASIN LEADS ARE TO BE CONNECTED TO THE MAIN WITH MANUFACTURED TEES. REAR LOT CATCHBASIN SHALL BE SUMPLESS AND HAVE A CONCRETE ENCASED LEAD, WITH GRATES PER CITY STD. S-176 (BEEHIVE). DITCH INLET CATCH BASIN GRATES PER CITY STD. S-173.
4. ALL PRIVATE STREET CATCHBASINS TO BE EQUIPPED WITH CATCHBASIN SHIELDS OR APPROVED EQUIVALENT.
5. COMPACTION OF BACKFILL FOR STORM SEWERS SHALL HAVE LIFT THICKNESSES NOT EXCEEDING 200mm AS SPECIFIED IN THE GEOTECHNICAL INVESTIGATION PREPARED BY DS CONSULTANTS LTD. OR AS DIRECTED BY SOIL ENGINEERS ON SITE.
6. SILT SAC TO BE PLACED IN ALL STREET AND REAR LOT CB'S TO TRAP SEDIMENT. THESE SILT TRAPS ARE TO BE CLEANED REGULARLY BY THE CONTRACTOR AND NOT TO BE REMOVED UNTIL SUCH TIME AS THE CURBS ARE CONSTRUCTED AND BOULEVARDS ARE SODDED OR BACKYARDS ARE GRADED AND SODDED. SILT SAC FOR SILT CONTROL TO BE TERRATRACK 24-15 OR APPROVED EQUIVALENT.
7. CATCH BASIN FRAMES AND GRATES TO BE SET TO BASE COURSE ASPHALT GRADE PRIOR TO INSTALLATION OF BASE COURSE ASPHALT. CATCH BASINS SHALL BE SET TO FINAL GRADE PRIOR TO SURFACE COURSE ASPHALT AS PER OPSD 704.010. MANHOLE FRAMES AND GRATES AND WATER VALVE BOXES TO BE SET TO BASE ASPHALT PRIOR TO INSTALLATION OF BASE COURSE ASPHALT. MANHOLE FRAMES AND GRATES AND WATER VALVE BOXES TO BE ADJUSTED TO FINAL GRADE AFTER INSTALLATION OF SURFACE ASPHALT.
8. BEDDING TO BE PER OPSD 802.010 AND 802.030 DEPENDANT ON SEWER MATERIAL.
9. STORM MANHOLE BENCHING AS PER OPSD 701.021 AND TO SPRING LINE OF PIPE. FOR REGIONAL MANHOLES, BENCHING TO OBVERT IS REQUIRED TO PROVIDE SMOOTH TRANSITION THROUGH THE MANHOLE.
10. OGS UNITS TO BE INSTALLED ON PRIVATE PROPERTY TO BE ETV CERTIFIED. SUBSTITUTIONS MUST BE APPROVED BY ENGINEER/CITY.
11. SLOPE OF STORM SEWERS LESS THAN 0.50% TO BE VERIFIED PRIOR TO BACKFILLING.

SUMP PUMPS

1. SUMP PUMPS TO BE INSTALLED IN ALL DWELLING UNITS. REFER TO DETAIL ON SHEET 701.
2. WHERE A SUMP PUMP IS PROPOSED, A "GOOSE NECK" CONNECTION SHOULD BE PROVIDED THAT ENSURES THE PUMPED FLOWS ARE PUMPED TO AN ELEVATION OF AT LEAST 0.15m ABOVE FINAL GROUND ELEVATION PRIOR TO DISCHARGE EITHER TO SURFACE OR TO A PRIVATE FOUNDATION DRAIN LATERAL. A BACKFLOW VALVE MUST BE IMPLEMENTED.
3. WHERE SUMP PUMP DRAINAGE IS TO BE COLLECTED BY A PRIVATE LATERAL, A SURFACE OVERFLOW SHALL BE PROVIDED.
4. SUMP DISCHARGES CANNOT BE IN A RESIDENTIAL SIDE YARD.
5. WHERE A SUMP PUMP LINE DISCHARGES TO SURFACE, FLOWS SHALL BE DIRECTED TO CONCRETE PADS, AND THEN TO PERVIOUS GRASSED OR LANDSCAPED ARES FOR INFILTRATION. DISCHARGE POINTS SHOULD BE LOCATED A MINIMUM OF 0.6M AWAY FROM THE BUILDING EDGE (WITH CONCRETE SPLASH PADS) AND SHOULD DIRECT FLOWS AWAY FROM THE BUILDING (AND AWAY FROM ADJACENT BUILDINGS) IN CONJUNCTION WIT THE SITE GRADING PLAN. SUMP PUMP DISCHARGES SHOULD BE SEPARATED BY A MINIMUM OF 1.8M FROM ROOF LEADER/DOWNSPOUT DISCHARGES.
6. STANDARD CITY NOTE NOT APPLICABLE TO THIS PROJECT AS SUMP PUMPS TO BE DISCHARGED TO STORM SEWER LATERALS

BENCHMARK

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BRASS PLAQUE SET ON SOUTHWEST CORNER OF WING WALL OF CULVERT 0.50m FROM SOUTH END AND 0.13m BELOW TOP OF WALL ON MILLCROFT PARK DRIVE AND APPROXIMATELY 40m EAST OF COUNTRY CLUB DRIVE ON THE SOUTH SIDE OF THE ROAD.

NO.	DATE	BY	REVISIONS
1	SEPT. 25, 2025	S.A.H.	FIRST SUBMISSION

DESIGN	A.G.	CHECKED	S.H.	DATE: JULY 2025
DRAWN	A.A.	CHECKED	S.H.	
REFERENCES:				SCALE
FIELD NOTES: N.T.S				

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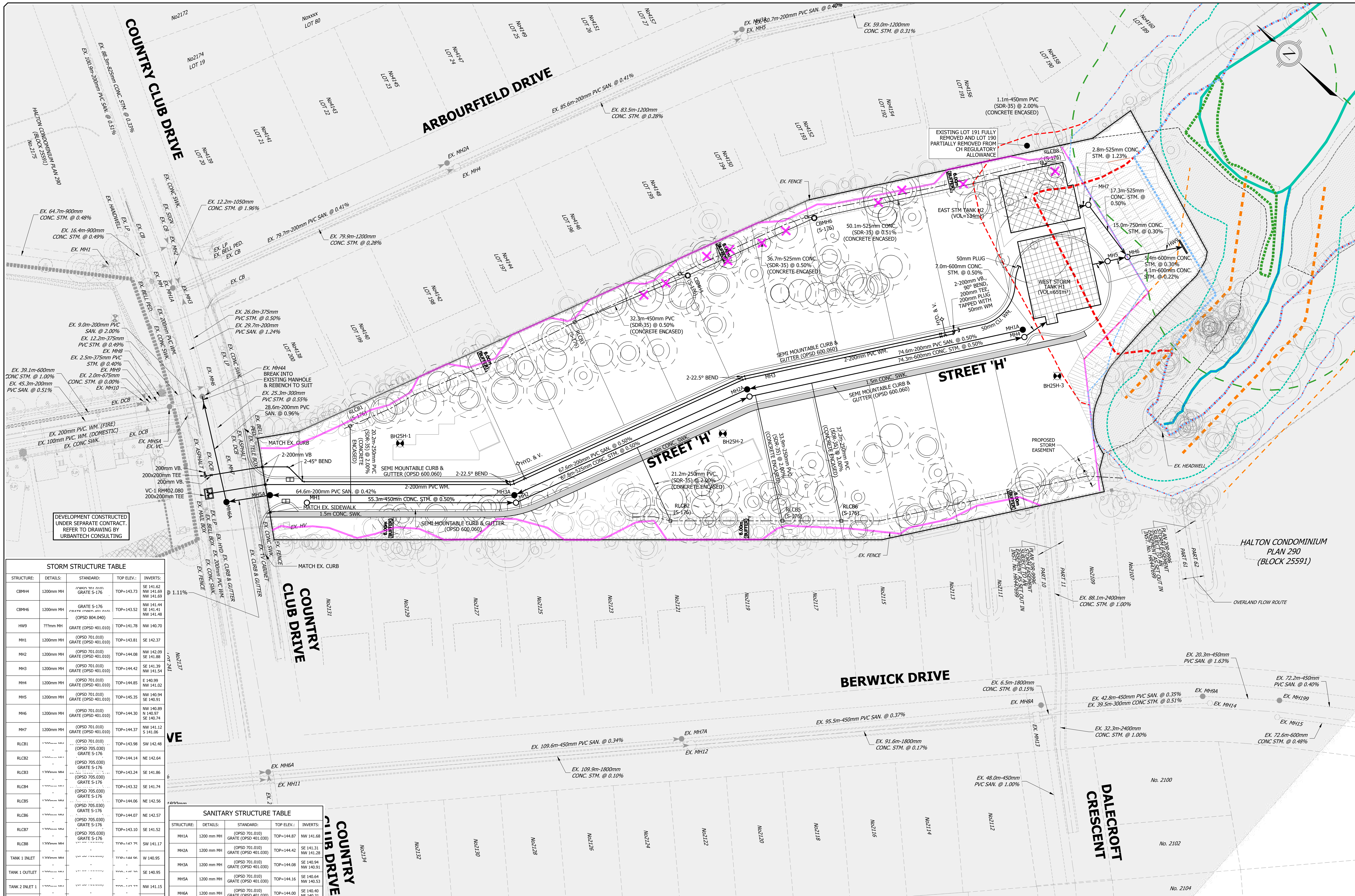
Halton REGION

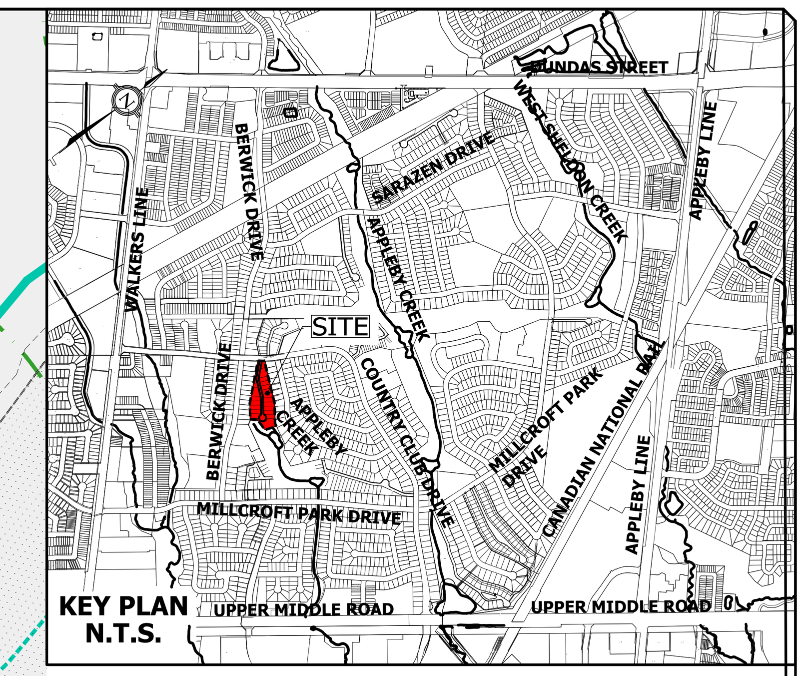
CITY OF Burlington

MILLCROFT GREENS CORPORATION
BLOCK H

GENERAL NOTES

CITY FILE No.	REGION DEVELOPMENT PROJECT NUMBER:
X	X
CONTRACT NO. 25-342	DRAWING No. **H-100**





KEY PLAN
N.T.S.

LEGEND

- STORM SEWER AND MANHOLE
- SANITARY SEWER AND MANHOLE
- WATERMAIN
- EXISTING STORM SEWER AND MANHOLE
- EXISTING SANITARY SEWER AND MANHOLE
- EXISTING WATERMAIN
- SINGLE STORM SERVICE CONNECTION
- SINGLE SANITARY SERVICE CONNECTION
- WATER SERVICE CONNECTION
- SINGLE/REARLOT CATCHBASIN
- DOUBLE CATCHBASIN
- HYDRANT & VALVE
- VALVE AND BOX
- EXISTING SINGLE/REARLOT CATCHBASIN
- EXISTING DOUBLE CATCHBASIN
- EXISTING HYDRANT & VALVE
- EXISTING VALVE & BOX
- MAXIMUM 3:1 SLOPE (UNLESS OTHERWISE NOTED)
- EXISTING WATERCOURSE
- LIMIT OF PROPERTY
- CHAINLINK FENCE
- PROPOSED STREET LIGHT
- PROPOSED TRANSFORMER
- SUMP PUMP (DIRECTLY CONNECTED TO THE STORM SEWER)
- HYDRO BOX
- BOREHOLE LOCATION
- EXISTING DEVELOPMENT LANDS
- 6.0m BUFFER TO BE REGRADED WHERE NECESSARY AND RESTORED
- LIMIT OF DISTURBANCE
- EXISTING FIBRE OPTICS
- EXISTING GAS MAIN
- EXISTING HYDRO
- EXISTING TV
- EXISTING TELE CABLE
- MEANDER BELT
- MEANDER BELT +15.0m OFFSET
- WETLANDS (TERRASTORY)
- WETLANDS (TERRASTORY) +30.0m OFFSET
- PROPOSED FLOODPLAIN
- PROPOSED FLOODPLAIN +15.0m OFFSET
- EXISTING FLOODPLAIN
- EXISTING FLOODPLAIN +15.0m OFFSET
- FISH HABITAT
- FISH HABITAT +15.0m OFFSET
- LIMIT OF DEVELOPMENT

STORM STRUCTURE TABLE

STRUCTURE:	DETAILS:	STANDARD:	TOP ELEV.:	INVERTS:
CBMH4	1200mm MH	(OPSD 701.010) GRATE S-176	TOP=143.73	SE 141.62 NW 141.69 NW 141.69
CBMH6	1200mm MH	GRATE S-176 GRATE (OPSD 401.010)	TOP=143.52	NW 141.44 SE 141.41 NW 141.48
HW9	???mm MH	(OPSD 804.040) GRATE (OPSD 401.010)	TOP=141.78	NW 140.70
MH1	1200mm MH	(OPSD 701.010) GRATE (OPSD 401.010)	TOP=143.81	SE 142.37
MH2	1200mm MH	(OPSD 701.010) GRATE (OPSD 401.010)	TOP=144.08	NW 142.09 SE 141.88
MH3	1200mm MH	(OPSD 701.010) GRATE (OPSD 401.010)	TOP=144.42	SE 141.39 NW 141.54
MH4	1200mm MH	(OPSD 701.010) GRATE (OPSD 401.010)	TOP=144.85	E 140.99 NW 141.02
MH5	1200mm MH	(OPSD 701.010) GRATE (OPSD 401.010)	TOP=145.35	NW 140.94 SE 140.91
MH6	1200mm MH	(OPSD 701.010) GRATE (OPSD 401.010)	TOP=144.30	NW 140.89 N 140.97 SE 140.74
MH7	1200mm MH	(OPSD 701.010) GRATE (OPSD 401.010)	TOP=144.37	NW 141.12 S 141.06
RLCB1	1200mm MH -	(OPSD 701.010) GRATE (OPSD 401.010) (OPSD 705.030) GRATE S-176	TOP=143.98	SW 142.48
RLCB2	1200mm MH -	(OPSD 705.030) GRATE S-176	TOP=144.14	NE 142.64
RLCB3	1200mm MH -	(OPSD 705.030) GRATE S-176	TOP=143.24	SE 141.86
RLCB4	1200mm MH -	(OPSD 705.030) GRATE S-176	TOP=143.32	SE 141.74
RLCB5	1200mm MH -	(OPSD 705.030) GRATE S-176	TOP=144.06	NE 142.56
RLCB6	1200mm MH -	(OPSD 705.030) GRATE S-176	TOP=144.07	NE 142.57
RLCB7	1200mm MH -	(OPSD 705.030) GRATE S-176	TOP=143.10	SE 141.52
RLCB8	1200mm MH -	(OPSD 701.010) -	TOP=142.75 -	SW 141.17
TANK 1 INLET	1200mm MH -	(OPSD 701.010) -	TOP=144.96 -	W 140.95
TANK 1 OUTLET	1200mm MH -	(OPSD 701.010) -	TOP=145.30 -	SE 140.95
TANK 2 INLET 1	1200mm MH -	(OPSD 701.010) -	TOP=143.37 -	NW 141.15
TANK 2 INLET 2	1200mm MH	(OPSD 701.010)	TOP=142.97	NE 141.15

SANITARY STRUCTURE TABLE

STRUCTURE:	DETAILS:	STANDARD:	TOP ELEV.:	INVERTS:
MH1A	1200 mm MH	(OPSD 701.010) GRATE (OPSD 401.030)	TOP=144.87	NW 141.68
MH2A	1200 mm MH	(OPSD 701.010) GRATE (OPSD 401.030)	TOP=144.42	SE 141.31 NW 141.28
MH3A	1200 mm MH	(OPSD 701.010) GRATE (OPSD 401.030)	TOP=144.08	SE 140.94 NW 140.91
MH5A	1200 mm MH	(OPSD 701.010) GRATE (OPSD 401.030)	TOP=144.16	SE 140.64 NW 140.53
MH6A	1200 mm MH	(OPSD 701.010) GRATE (OPSD 401.030)	TOP=144.00	SE 140.40 NE 140.31

BENCHMARK

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NO.	DATE	BY	REVISIONS
1	SEPT. 25, 2025	S.A.H.	FIRST SUBMISSION

DESIGN	A.G.	CHECKED	S.H.	DATE JULY 2025
DRAWN	A.A.	CHECKED	S.H.	
REFERENCES:				SCALE 1:500
FIELD NOTES:				

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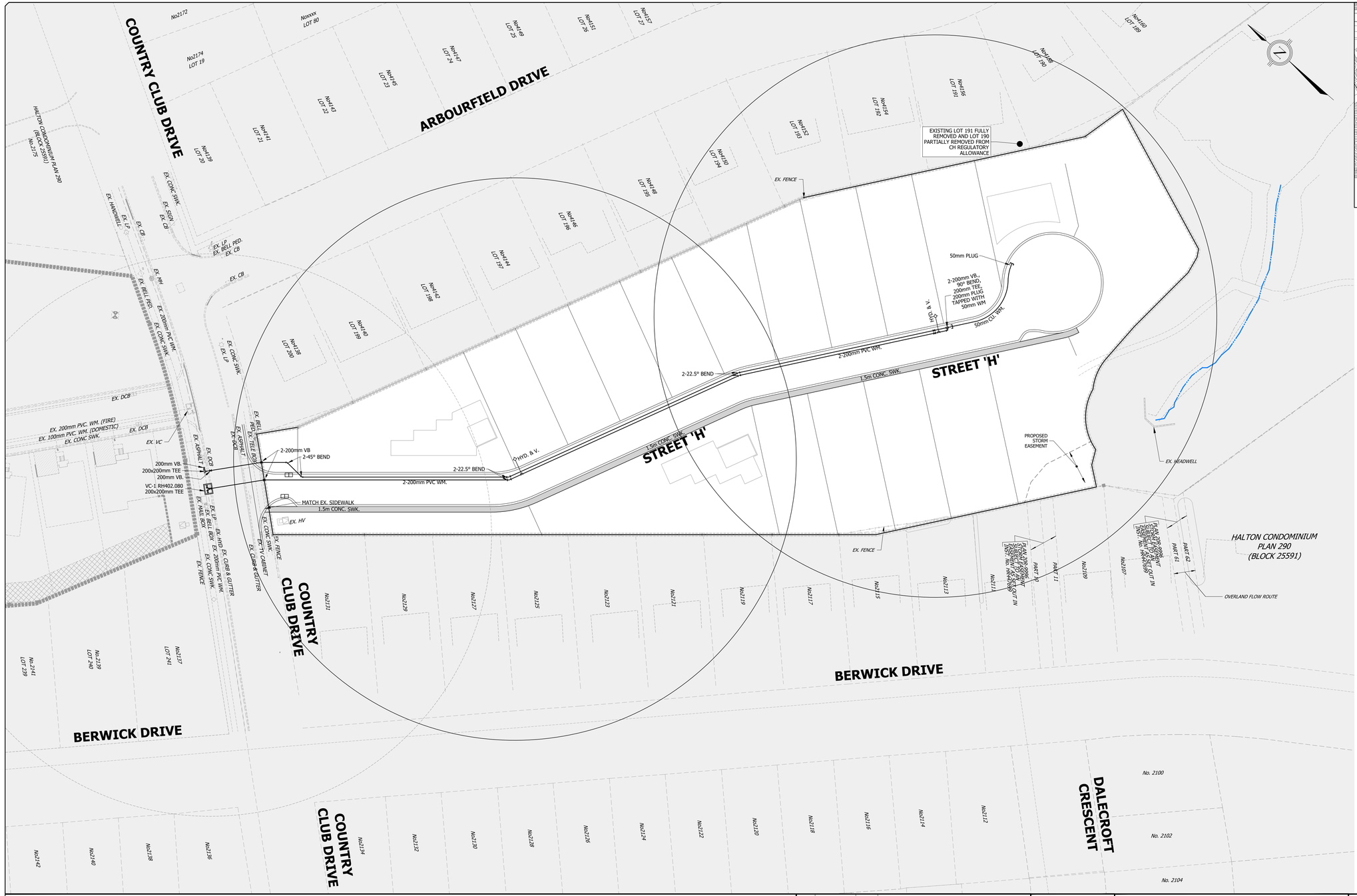
Halton REGION
CITY OF Burlington

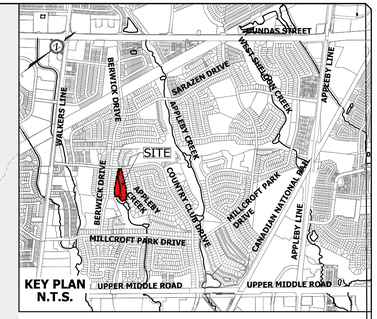
MILLCROFT GREENS CORPORATION
BLOCK H

SERVICING PLAN

CITY FILE No.	REGION DEVELOPMENT PROJECT NUMBER:
X	X
CONTRACT NO. 25-342	DRAWING No. H-101

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LEGEND

- WATERMAIN
- EXISTING WATERMAIN
- WATER SERVICE CONNECTION
- SINGLE/REARLOT CATCHBASIN
- DOUBLE CATCHBASIN
- HYDRANT & VALVE
- VALVE AND BOX
- EXISTING SINGLE/REARLOT CATCHBASIN
- EXISTING DOUBLE CATCHBASIN
- EXISTING HYDRANT & VALVE
- EXISTING VALVE & BOX
- EXISTING WATERCOURSE
- LIMIT OF PROPERTY
- CHAINLINK FENCE
- EXISTING DEVELOPMENT LANDS
- 6.0M BUFFER TO BE REGRADED WHERE NECESSARY AND RESTORED
- LIMIT OF DISTURBANCE
- LIMIT OF DEVELOPMENT
- PROPOSED HYDRANT COVERAGE (R=75.0m)
- EXISTING HYDRANT COVERAGE (R=75.0m)

BENCHMARK

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DESIGN	A.G.	CHECKED	S.H.	DATE: JULY 2025
DRAWN	A.A.	CHECKED	S.H.	
REFERENCES:				SCALE: 1:500
FIELD NOTES:				


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MILLCROFT GREENS CORPORATION
BLOCK H

WATER DISTRIBUTION PLAN

CITY FILE No.	REGION DEVELOPMENT PROJECT NUMBER:
X	X
CONTRACT NO.	DRAWING No.
25-342	H-102

File: F:\PROJECTS\25-342 MILLCROFT PHASE 2\DRAWINGS\PRELIMINARY ENGINEERING & FIGURES\AREA H\100 - GENERAL PLAN\103_WATER DISTRIBUTION PLAN.DWG - REVISED BY:<xprimm> : 05, December 05, 2025 8:22 PM



BENCHMARK

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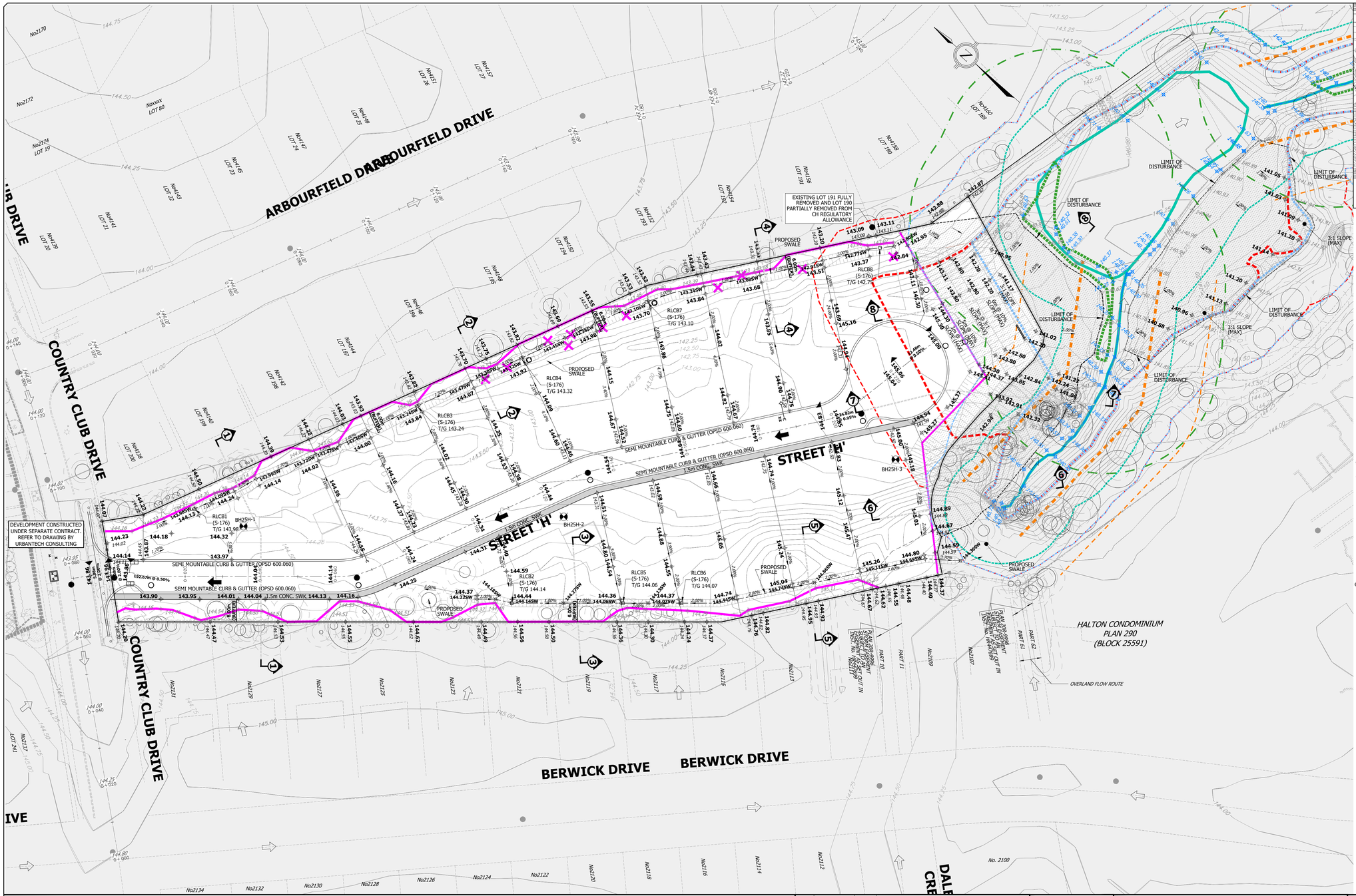
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MILLCROFT GREENS CORPORATION
BLOCK H

CONSTRAINT MAPPING PLAN

CITY FILE No. X	REGION DEVELOPMENT PROJECT NUMBER: X
CONTRACT NO. 25-342	DRAWING No. H-103

File: F:\PROJECTS\25-342 MILLCROFT PHASE 2\DRAWINGS\PRELIMINARY ENGINEERING & FIGURES\AREA H\100 - GENERAL PLAN\102_CONSTRAINT MAPPING PLAN.DWG - REVISED BY<agrimm> : 05, December 05, 2025 8:23 PM



LEGEND

- 138.63 — PROPOSED ELEVATION
- 140.43G — PROPOSED GUTTER ELEVATION
- 140.35TC — PROPOSED TOP OF CURB ELEVATION
- 140.63TW — PROPOSED TOP OF WALL ELEVATION
- 139.66BW — PROPOSED BOTTOM OF WALL ELEVATION
- 139.66 — EXISTING WATER ELEVATION
- 137.63 — EXISTING ELEVATION
- 139.49 / 139.49 — PROPOSED/EXISTING ELEVATION
- 138.00 — EXISTING CONTOUR AND ELEVATION
- MAXIMUM 3:1 SLOPE (UNLESS OTHERWISE NOTED)
- STORM MANHOLE
- SANITARY MANHOLE
- EXISTING STORM MANHOLE
- EXISTING SANITARY MANHOLE
- SINGLE CATCHBASIN
- DOUBLE CATCHBASIN
- HYDRANT & VALVE
- VALVE & BOX
- EXISTING SINGLE CATCHBASIN
- EXISTING DOUBLE CATCHBASIN
- EXISTING HYDRANT & VALVE
- EXISTING VALVE & BOX
- LIMIT OF PROPERTY
- CHAINLINK FENCE
- BOREHOLE LOCATION
- EXISTING TREES TO BE PRESERVED
- PROPOSED OVERLAND FLOW DIRECTION
- EXISTING OVERLAND FLOW DIRECTION
- 3 — SECTION MARKER (REFER TO DWG. H-202-H-203)
- PROPOSED SWALE
- TREE PRESERVATION FENCE
- EXISTING WATERCOURSE
- PROPOSED FLOOD LINE
- PROPOSED FLOOD LINE +15.0m OFFSET
- EXISTING FLOOD LINE
- EXISTING FLOOD LINE +15.0m OFFSET
- MEANDER BELT
- MEANDER BELT +15.0m OFFSET
- WETLANDS (TERRASTORY)
- WETLANDS (TERRASTORY) +30.0m OFFSET
- FISH HABITAT
- FISH HABITAT +15.0m OFFSET
- EXISTING DEVELOPMENT LANDS
- 6.0m BUFFER TO BE REGRADED WHERE NECESSARY AND RESTORED
- LIMIT OF DISTURBANCE
- LIMIT OF DEVELOPMENT

BENCHMARK

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NO.	DATE	BY	REVISIONS
1	SEPT. 25, 2025	S.A.H.	FIRST SUBMISSION

DESIGN	A.G.	CHECKED	S.H.	DATE	JULY 2025
DRAWN	A.A.	CHECKED	S.H.		
REFERENCES:				SCALE	1:500
FIELD NOTES:					

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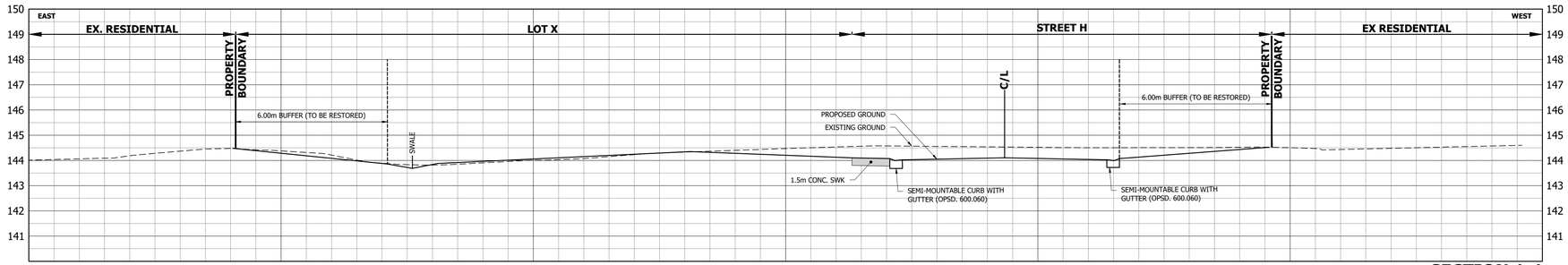
Halton REGION
CITY OF Burlington

MILLCROFT GREENS CORPORATION
BLOCK H

GRADING PLAN

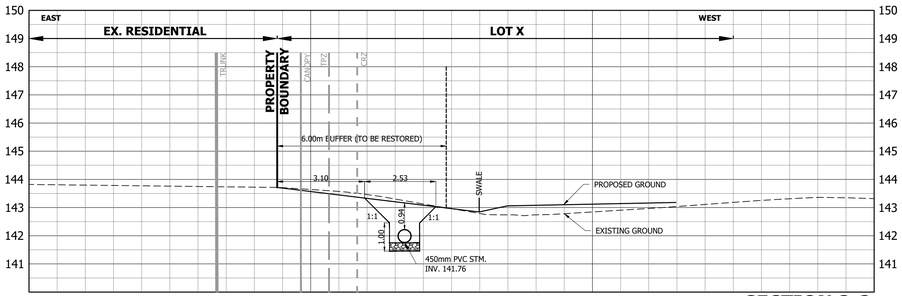
CITY FILE No.	REGION DEVELOPMENT PROJECT NUMBER:
X	X
CONTRACT NO.	DRAWING No.
25-342	H-201

File: F:\PROJECTS\25-342 MILLCROFT PHASE 2\DRAWINGS\PRELIMINARY ENGINEERING & FIGURES\AREA H\200 - GRADING\201_GRADING PLAN.DWG - REVISED BY:<agrimm> : 05, December 05, 2025 8:25 PM



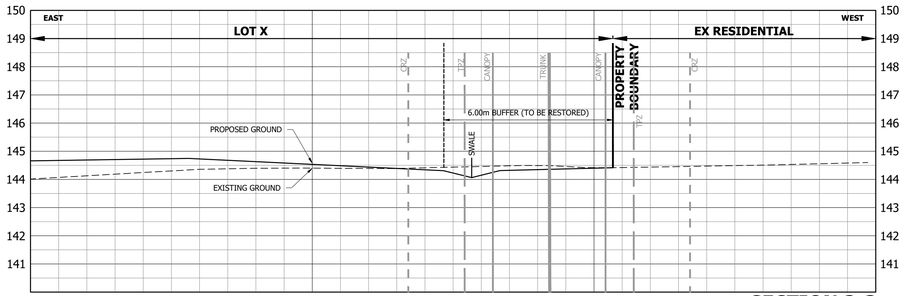
SECTION 1-1

H 1:100
V 1:100



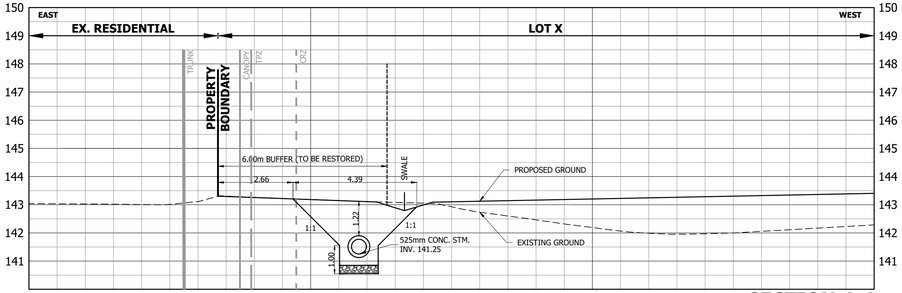
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H 1:100
V 1:100



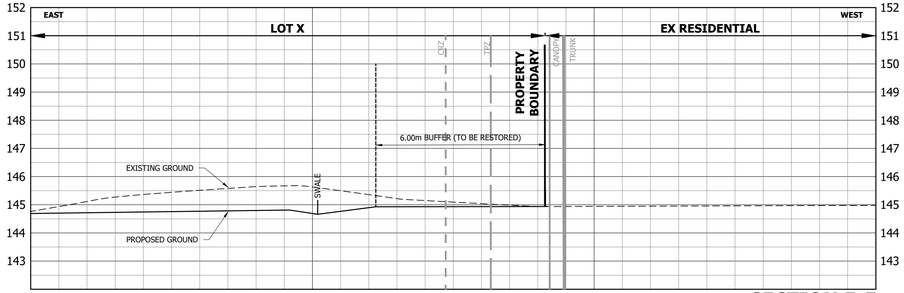
SECTION 3-3

H 1:100



SECTION 4-4

H 1:100
V 1:100



SECTION 5-5

H 1:100
V 1:100

BENCHMARK

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Halton REGION
City of Burlington

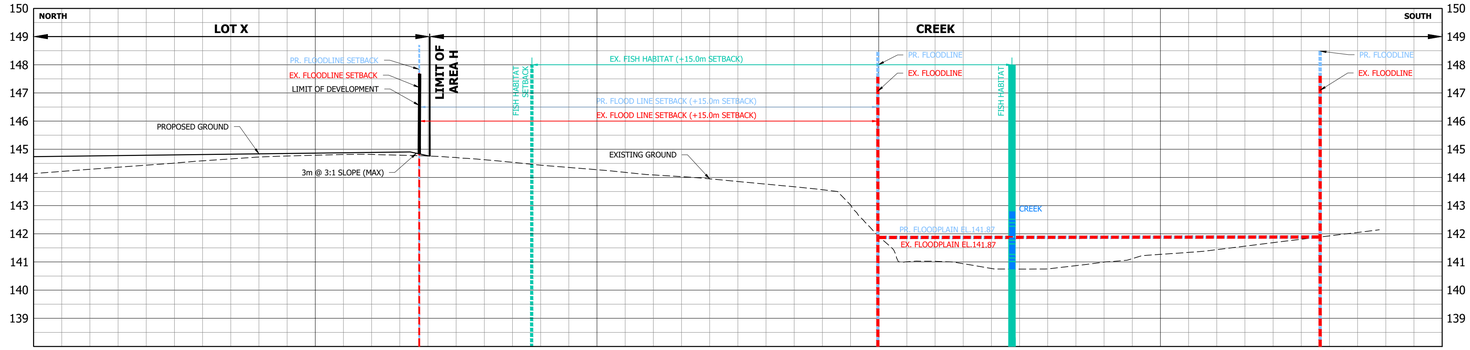
MILLCROFT GREENS CORPORATION

BLOCK H

SECTIONS

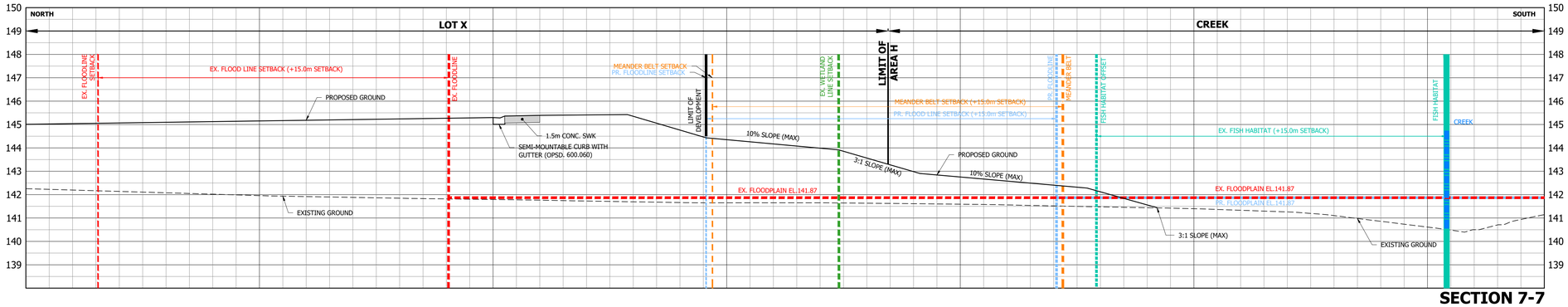
CITY FILE No.	REGION DEVELOPMENT PROJECT NUMBER:
X	X
CONTRACT NO.	DRAWING No.
25-342	H-202

File: F:\PROJECTS\25-342 MILLCROFT PHASE 2\DRAWINGS\PRELIMINARY ENGINEERING & FIGURES\AREA H\200 - GRADING\203_SECTIONS.DWG - REVISED BY:<xrefmm> - 05, December 05, 2025 8:27 PM



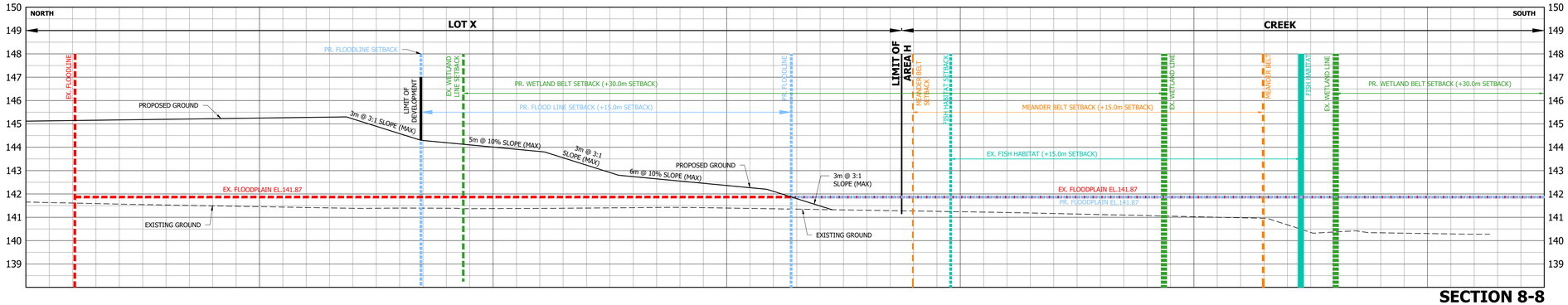
SECTION 6-6

H 1:100
V 1:100



SECTION 7-7

H 1:100
V 1:100



SECTION 8-8

H 1:100
V 1:100

BENCHMARK

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Halton Region

City of Burlington

MILLCROFT GREENS CORPORATION

BLOCK H

SECTIONS

CITY FILE No. X	REGION DEVELOPMENT PROJECT NUMBER: X
CONTRACT NO. 25-342	DRAWING No. H-203

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LEGEND

- STORM MANHOLE
- SANITARY MANHOLE
- EXISTING STORM MANHOLE
- EXISTING SANITARY MANHOLE
- SINGLE CATCHBASIN
- DOUBLE CATCHBASIN
- HYDRANT & VALVE
- VALVE & BOX
- EXISTING SINGLE CATCHBASIN
- EXISTING DOUBLE CATCHBASIN
- EXISTING HYDRANT & VALVE
- EXISTING VALVE & BOX
- LIMIT OF PROPERTY
- EXISTING TREES TO BE PRESERVED
- LIMIT OF DEVELOPMENT
- EXISTING WATERCOURSE
- PROPOSED FLOOD LINE
- FLOOD LINE +15.0m OFFSET
- EXISTING FLOOD LINE
- EXISTING MEANDER BELT +15.0m OFFSET
- MEANDER BELT
- MEANDER BELT +15.0m OFFSET
- WETLAND (TERRASTORY)
- WETLANDS (TERRASTORY) +30.0m OFFSET
- DEPTH OF STORAGE REMOVED (m³)
- DEPTH OF STORAGE GAINED (m³)
- EXISTING DEVELOPMENT LANDS
- 6.0m BUFFER TOBE REGRADED WHERE NECESSARY AND RESTORED
- LIMIT OF DISTURBANCE

REGIONAL FLOOD PLAIN STORAGE	
GAIN	650m³
REMOVED	640m³
NET GAIN	10m³

BENCHMARK

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Halton REGION

CITY OF Burlington

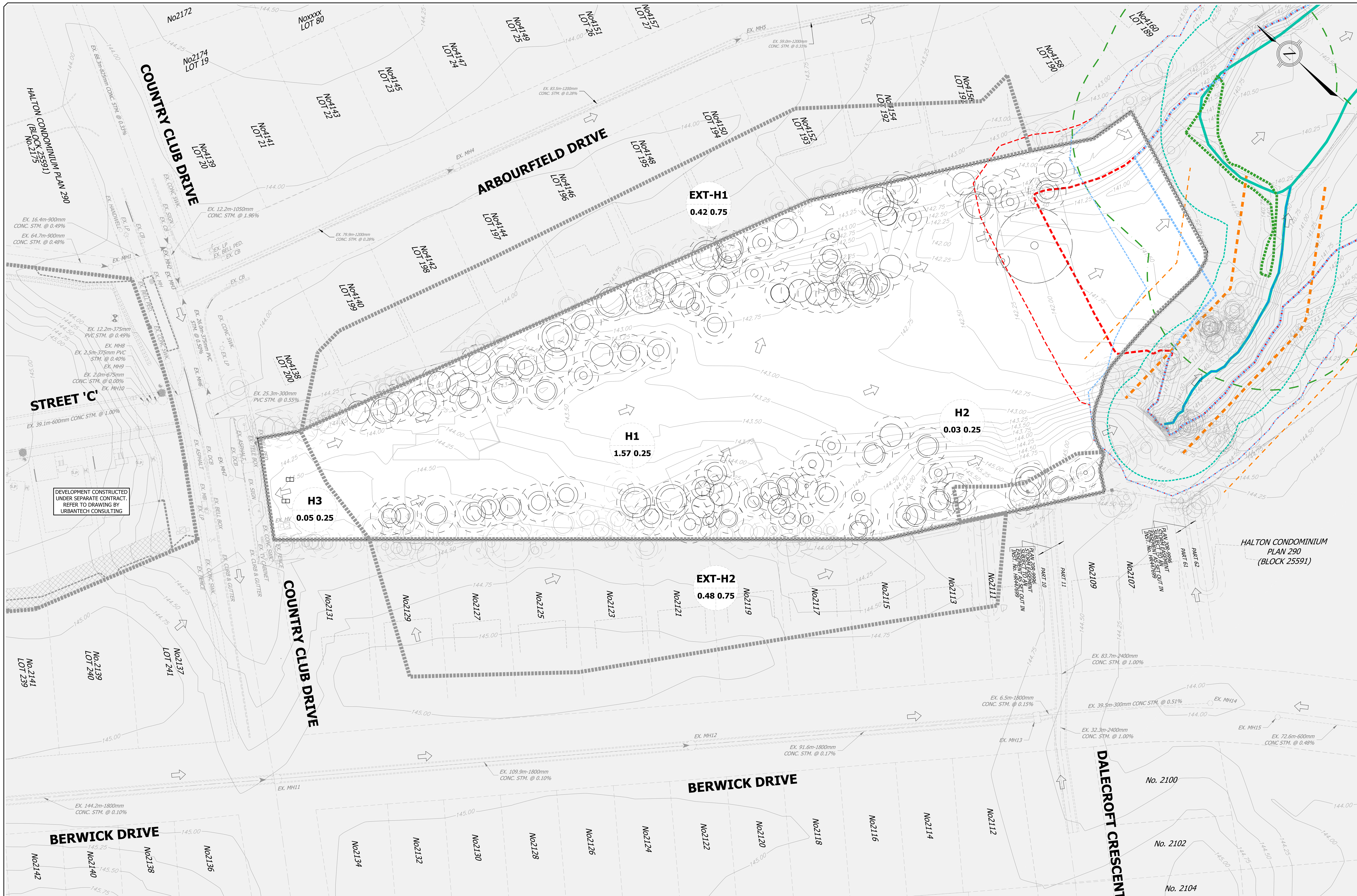
MILLCROFT GREENS CORPORATION

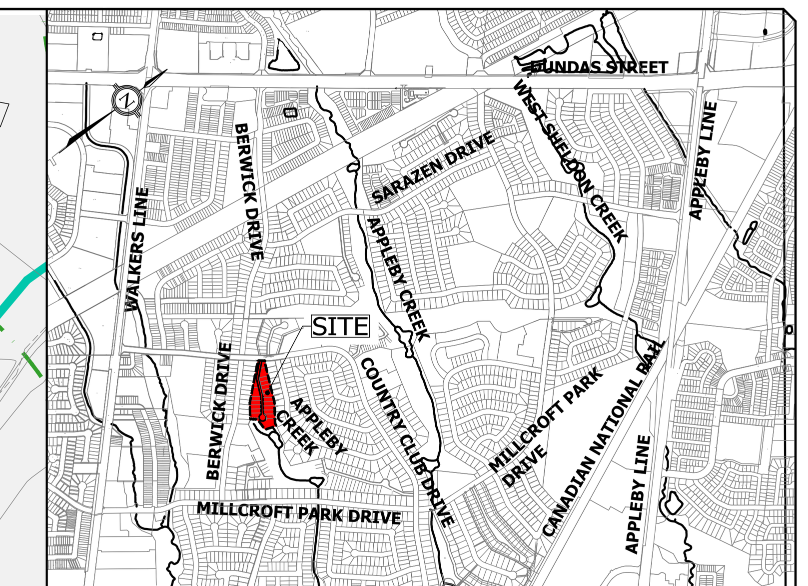
BLOCK H

FLOODPLAIN COMPENSATION PLAN

CITY FILE No.	REGION DEVELOPMENT PROJECT NUMBER:
X	X
CONTRACT NO.	DRAWING No.
25-342	H-204

File: F:\PROJECTS\25-342 MILLCROFT PHASE 2\DRAWINGS\PRELIMINARY ENGINEERING & FIGURES\AREA H\200 - GRADING\205_FLOOD PLAIN COMPENSATION PLAN.DWG - REVISED BY:<agrimm> : 05. December 05, 2025 8:30 PM





KEY PLAN
N.T.S.

LEGEND

- EXISTING STORM SEWER AND MANHOLE
- EXISTING EXTERNAL DRAINAGE BOUNDARY
- E-03A / 0.42 / 0.30: AREA ID; WEIGHTED RUNOFF COEFFICIENT; DRAINAGE AREA (ha)
- EXISTING SINGLE/REARLOT CATCHBASIN
- EXISTING DOUBLE CATCHBASIN
- EXISTING WATERCOURSE
- LIMIT OF PROPERTY
- EXISTING OVERLAND FLOW DIRECTION
- EXISTING CONTOUR AND ELEVATION (138.00)
- EXISTING DEVELOPMENT LANDS
- MEANDER BELT
- MEANDER BELT 15.0m OFFSET
- WETLANDS (TERRASTORY)
- WETLANDS (TERRASTORY) +30.0m OFFSET
- FISH HABITAT
- FISH HABITAT 15.0m OFFSET
- EXISTING FLOODLINE
- EXISTING FLOODLINE +15.0m OFFSET

BENCHMARK

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FIELD NOTES:				

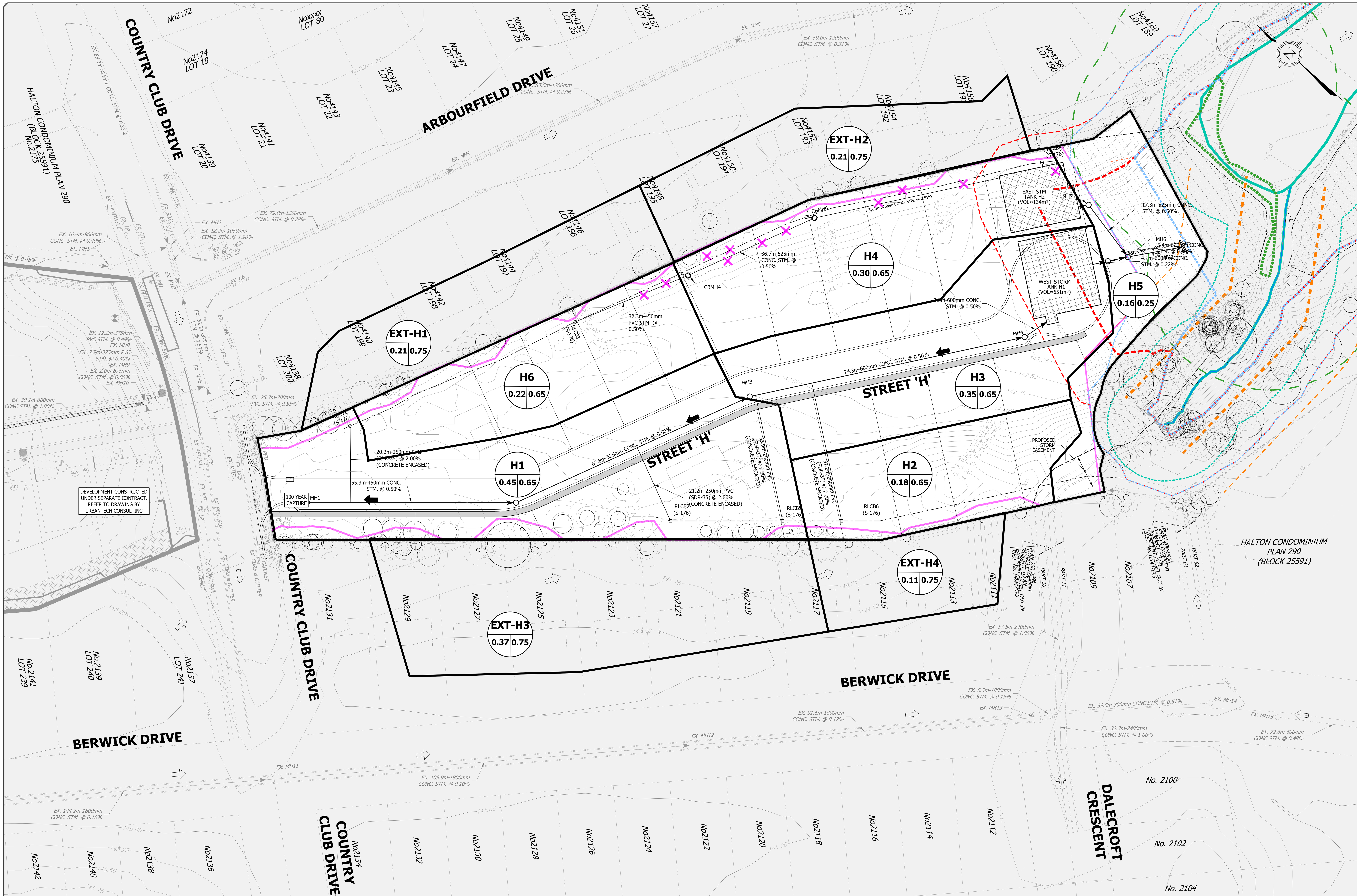
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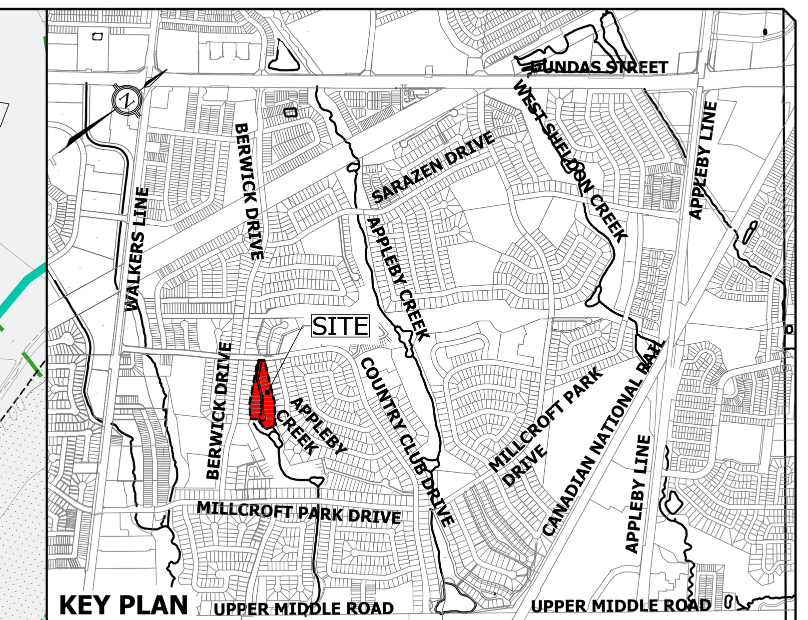
MILLCROFT GREENS CORPORATION
BLOCK H

EXISTING STORM DRAINAGE PLAN

CITY FILE No.	REGION DEVELOPMENT PROJECT NUMBER:
X	X
CONTRACT NO. 25-342	DRAWING No. H-301

File: F:\PROJECTS\25-342 MILLCROFT PHASE 2\DRAWINGS\PRELIMINARY ENGINEERING & FIGURES\AREA H\300 - DRAINAGE\301_EXISTING STORM PLAN.DWG - REVISED BY<agrimm> : 05, December 05, 2025 8:31 PM





KEY PLAN
N.T.S.

LEGEND

- STORM SEWER AND MANHOLE
- EXISTING STORM SEWER AND MANHOLE
- SINGLE STORM SERVICE CONNECTION
- STORM DRAINAGE AREA BOUNDARY
- EXISTING STORM DRAINAGE AREA BOUNDARY
- SINGLE/REARLOT CATCHBASIN
- DOUBLE CATCHBASIN
- EXISTING SINGLE/REARLOT CATCHBASIN
- EXISTING DOUBLE CATCHBASIN
- EXISTING WATERCOURSE
- LIMIT OF PROPERTY
- LIMIT OF DEVELOPMENT
- PROPOSED OVERLAND FLOW DIRECTION
- EXISTING OVERLAND FLOW DIRECTION
- EXISTING CONTOUR AND ELEVATION
- C6 — CATCHMENT ID; 0.18 — DRAINAGE AREA (ha); 0.66 — RUNOFF COEFFICIENT
- E05-C — EXISTING CATCHMENT ID; 0.09 — EXISTING DRAINAGE AREA (ha); 0.4 — EXISTING RUNOFF COEFFICIENT
- EXISTING DEVELOPMENT LANDS
- LIMIT OF DISTURBANCE
- PROPOSED FLOOD LINE
- FLOOD LINE 15.0m OFFSET
- MEANDER BELT
- MEANDER BELT 15.0m OFFSET
- WETLANDS (TERRASTORY)
- WETLANDS (TERRASTORY) +30.0m OFFSET
- FISH HABITAT
- FISH HABITAT 15.0m OFFSET

BENCHMARK

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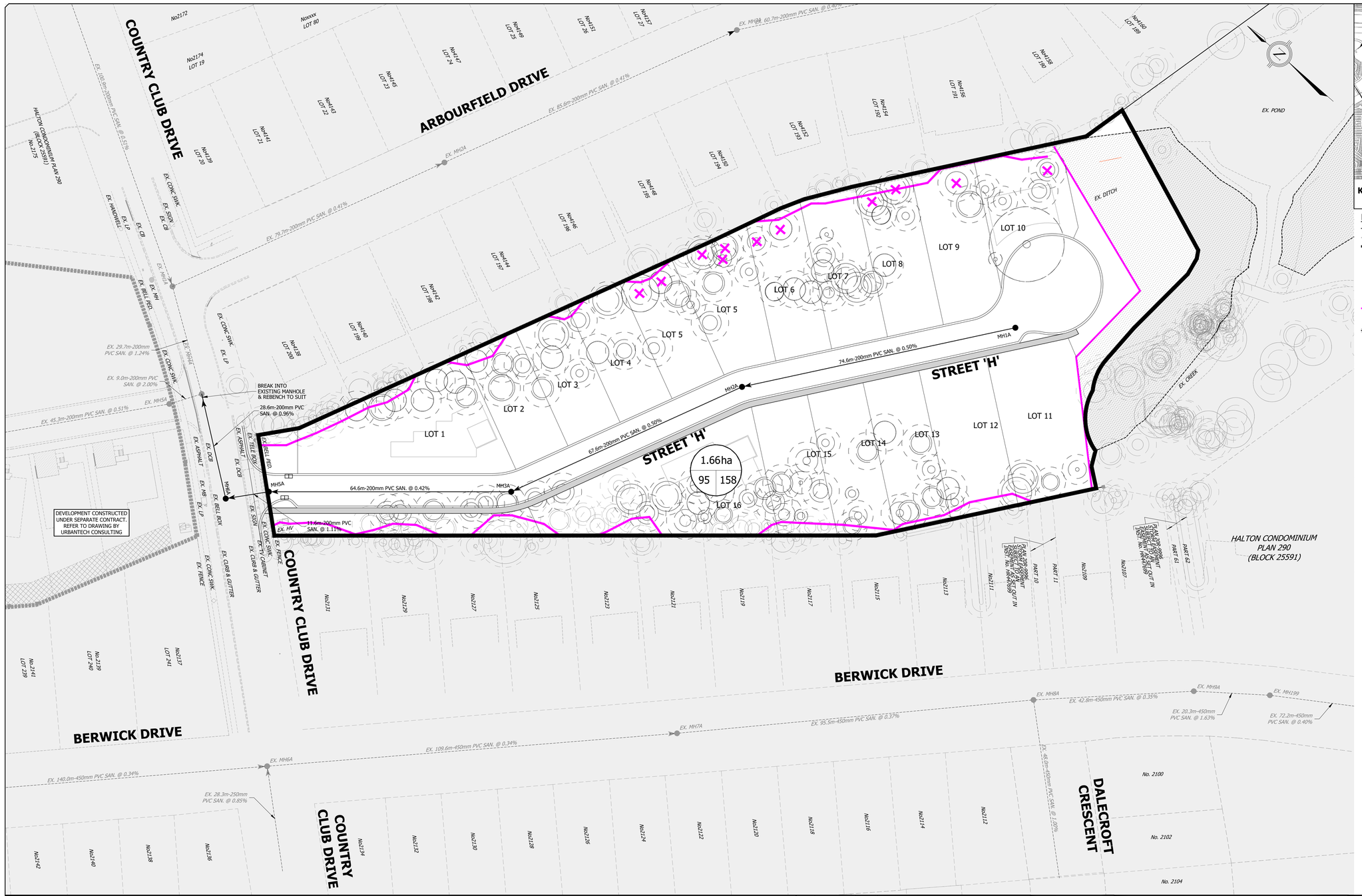
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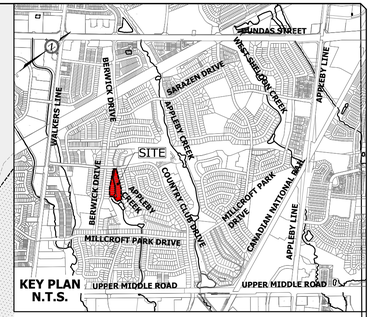
MILLCROFT GREENS CORPORATION
BLOCK H

PROPOSED STORM DRAINAGE PLAN

CITY FILE No.	REGION DEVELOPMENT PROJECT NUMBER:
X	X
CONTRACT NO. 25-342	DRAWING No. H-302

File: F:\PROJECTS\25-342 MILLCROFT PHASE 2\DRAWINGS\PRELIMINARY ENGINEERING & FIGURES\AREA H\300 - DRAINAGE\302_PROPOSED STORM PLAN.DWG - REVISED BY<agrimm> : 05, December 05, 2025 8:32 PM





LEGEND

- SANITARY SEWER AND MANHOLE
- EXISTING SANITARY SEWER AND MANHOLE
- SANITARY DRAINAGE AREA BOUNDARY
- 2.95ha — DRAINAGE AREA (ha)
- 55 | 163 — POPULATION
- DENSITY (PERSONS/HECTARE)
- LIMIT OF DEVELOPMENT
- EXISTING WATERCOURSE
- LIMIT OF PROPERTY
- EXISTING DEVELOPMENT LANDS
- 6.0M BUFFER TO BE REGRADED WHERE NECESSARY AND RESTORED
- LIMIT OF DISTURBANCE

BENCHMARK

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City of Burlington

MILLCROFT GREENS CORPORATION
BLOCK H

SANITARY DRAINAGE PLAN

CITY FILE No.	REGION DEVELOPMENT PROJECT NUMBER:
X	X
CONTRACT NO.	DRAWING No.
25-342	H-303

File: F:\PROJECTS\25-342 MILLCROFT PHASE 2\DRAWINGS\PRELIMINARY ENGINEERING & FIGURES\AREA H\300 - DRAINAGE\303_SANITARY PLAN.DWG - REVISED BY:<xrefs> - 05, December 05, 2025 8:32 PM

DEVELOPMENT CONSTRUCTED UNDER SEPARATE CONTRACT. REFER TO DRAWING BY URBANTECH CONSULTING

COUNTRY CLUB DRIVE

DALECROFT CRESCENT

BERWICK DRIVE

ARBOURFIELD DRIVE

VERMONT CRESCENT

MUIRFIELD COURT

HALTON CONDOMINIUM PLAN 290 (BLOCK 25591)

EX. 144.2m-1800mm CONC. STM. @ 0.10%

EX. 109.9m-1800mm CONC. STM. @ 0.10%

EX. 91.6m-1800mm CONC. STM. @ 0.17%

EX. 6.5m-1800mm CONC. STM. @ 0.15%

EX. 32.3m-2400mm CONC. STM. @ 1.00%

EX. 88.1m-2400mm CONC. STM. @ 1.00%

EX. 39.5m-300mm CONC STM. @ 0.51%

EX. 21.6m-600mm CONC. STM. @ 0.40%

EX. MH9

EX. 2.5m-375mm PVC STM. @ 0.40%

EX. MH8

EX. 12.2m-375mm PVC STM. @ 0.49%

EX. MH6

EX. MH7

EX. 39.1m-600mm CONC. STM. @ 1.00%

EX. MH10

EX. 2.0m-675mm CONC STM. @ 0.00%

EX. MH3

EX. 26.0m-375mm PVC STM. @ 0.50%

EX. 25.3m-300mm PVC STM. @ 0.55%

EX. 64.7m-900mm CONC. STM. @ 0.48%

EX. 16.4m-900mm CONC. STM. @ 0.49%

EX. MH4

EX. MH2

EX. 88.3m-825mm CONC. STM. @ 0.33%

EX. 12.2m-1050mm CONC. STM. @ 1.96%

EX. 79.9m-1200mm CONC. STM. @ 0.28%

EX. 83.5m-1200mm CONC. STM. @ 0.28%

EX. MH5

EX. 59.0m-1200mm CONC. STM. @ 0.31%

EX. 58.5m-1200mm CONC. STM. @ 0.31%

EX. MH11

EX. MH12

EX. MH13

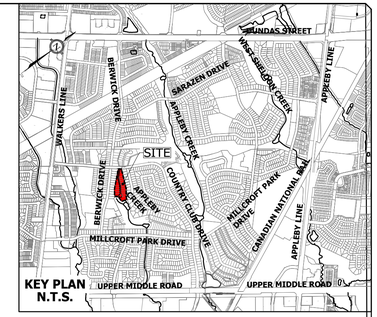
EX. MH14

EX. MH15

34459.25
142.12

34356
141.86

34412.72
141.88



KEY PLAN N.T.S.

LEGEND

- EXISTING STORM SEWER AND MANHOLE
- EXISTING WATERCOURSE
- EXISTING DEVELOPMENT LANDS
- LIMIT OF SUBDIVISION
- EXISTING OVERLAND FLOW ROUTE
- 286 — RIVER STATION
- 138.42 — RIVER SECTION / FLOOD ELEVATION
- EXISTING FLOOD LINE
- FLOOD LINE +15.0m OFFSET

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Halton REGION

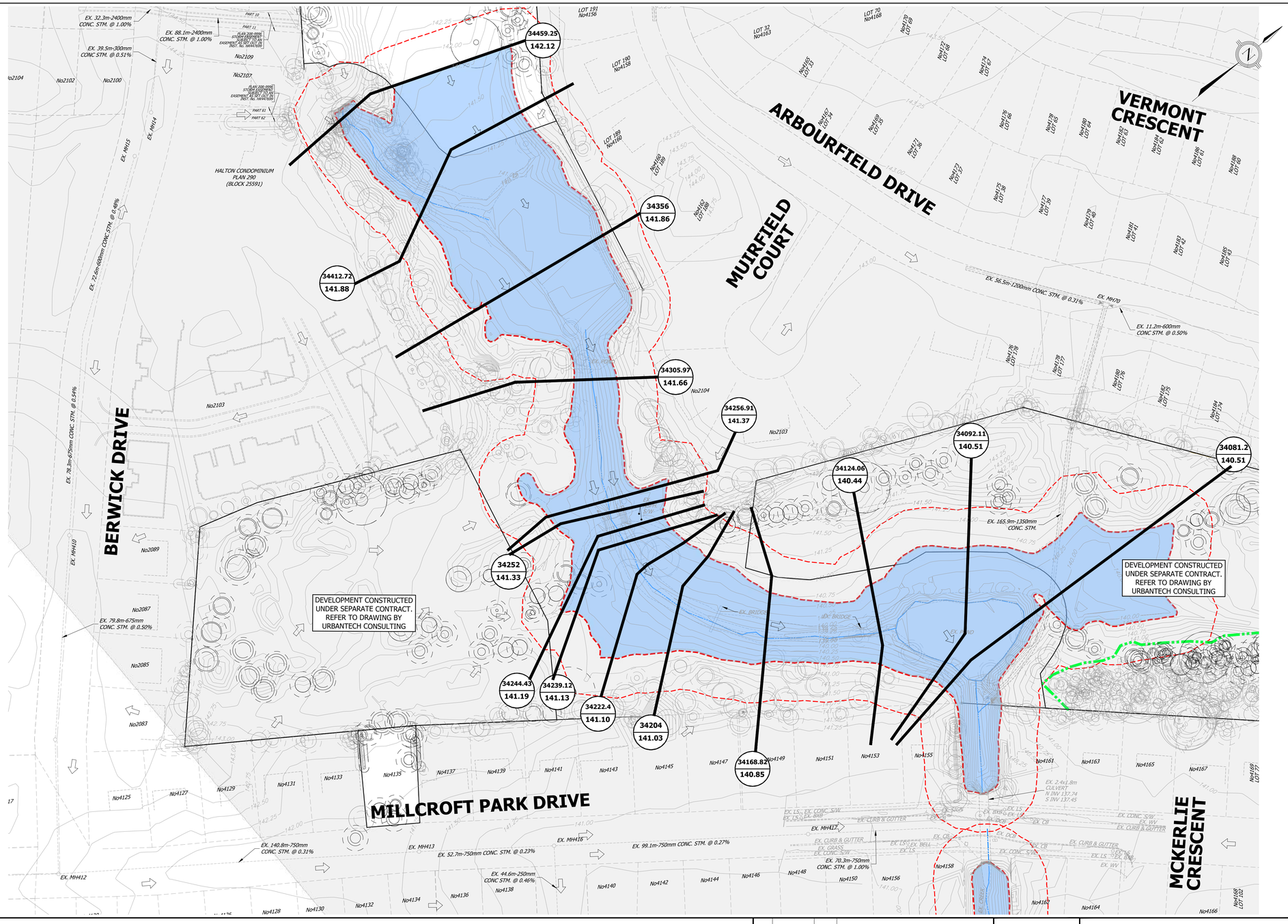
City of Burlington

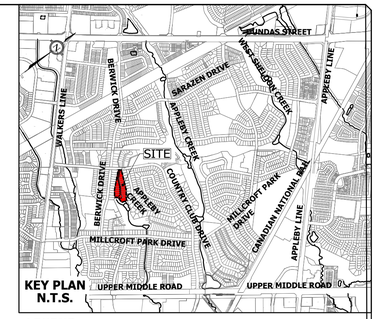
MILLCROFT GREENS CORPORATION
BLOCK H

EXISTING FLOODPLAIN PLAN

CITY FILE No.	REGION DEVELOPMENT PROJECT NUMBER:
X	X
CONTRACT NO. 25-342	DRAWING No. H-501

File: F:\PROJECTS\25-342 MILLCROFT PHASE 2\DRAWINGS\PRELIMINARY ENGINEERING & FIGURES\AREA H\500 - CHANNEL\501_EXISTING FLOODPLAIN PLAN.DWG - REVISED BY<xgrimm> - 05, December 05, 2025 8:33 PM





LEGEND

- EXISTING STORM SEWER AND MANHOLE
- EXISTING WATERCOURSE
- EXISTING DEVELOPMENT LANDS
- LIMIT OF SUBDIVISION
- EXISTING OVERLAND FLOW ROUTE
- 286 / 138.42 — RIVER STATION / RIVER SECTION / FLOOD ELEVATION
- EXISTING FLOOD LINE
- FLOOD LINE +15.0m OFFSET

BENCHMARK

ELEVATIONS ARE GEODETIC AND ARE REFERRED TO THE CITY OF BURLINGTON VERTICAL BENCHMARK NUMBER 414 HAVING AN ORTHOMETRIC ELEVATION OF 139.89 METRES. ELEVATIONS ARE REFERENCED TO THE CANADIAN GEODETIC VERTICAL DATUM OF 1928, 1978 ADJUSTMENT (CGVD-1928:1978).
BRASS PLAQUE SET ON SOUTHWEST CORNER OF WING WALL OF CULVERT 0.50m FROM SOUTH END AND 0.13m BELOW TOP OF WALL ON MILLCROFT PARK DRIVE AND APPROXIMATELY 40m EAST OF COUNTRY CLUB DRIVE ON THE SOUTH SIDE OF THE ROAD.

NO.	DATE	BY	REVISIONS
1	SEPT. 25, 2025	S.A.H.	FIRST SUBMISSION

DESIGN	A.G.	CHECKED	S.H.	DATE	JULY 2025
DRAWN	A.A.	CHECKED	S.H.		
REFERENCES:				SCALE	1:750
FIELD NOTES:					

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Halton REGION
CITY OF Burlington

MILLCROFT GREENS CORPORATION
BLOCK H

EXISTING FLOODPLAIN PLAN

CITY FILE No.	REGION DEVELOPMENT PROJECT NUMBER:
X	X
CONTRACT NO.	DRAWING No.
25-342	H-502

File: P:\PROJECTS\25-342 MILLCROFT PHASE 2\DRAWINGS\PRELIMINARY ENGINEERING & FIGURES\AREA H\500 - CHANNEL\502_EXISTING FLOODPLAIN PLAN.DWG - REVISED BY:<agrimm> : 05, December 05, 2025 8:35 PM

DEVELOPMENT CONSTRUCTED UNDER SEPARATE CONTRACT. REFER TO DRAWING BY URBANTECH CONSULTING

COUNTRY CLUB DRIVE

DALECROFT CRESCENT

BERWICK DRIVE

ARBOURFIELD DRIVE

VERMONT CRESCENT

MUIRFIELD COURT

STREET 'H'

HALTON CONDOMINIUM PLAN 290 (BLOCK 25591)

EX. 144.2m-1800mm CONC. STM. @ 0.10%

EX. 109.9m-1800mm CONC. STM. @ 0.10%

EX. 91.6m-1800mm CONC. STM. @ 0.17%

EX. 6.5m-1800mm CONC. STM. @ 0.15%

EX. 32.3m-2400mm CONC. STM. @ 1.00%

EX. 88.1m-2400mm CONC. STM. @ 1.00%

EX. 39.5m-300mm CONC STM. @ 0.51%

EX. 71.4m-600mm CONC. STM. @ 0.60%

EX. 2.5m-375mm PVC STM. @ 0.40%

EX. 12.2m-375mm PVC STM. @ 0.49%

EX. 26.0m-375mm PVC STM. @ 0.50%

EX. 25.3m-300mm PVC STM. @ 0.55%

EX. 39.1m-600mm CONC STM. @ 1.00%

EX. 2.0m-675mm CONC STM. @ 0.00%

EX. 64.7m-900mm CONC. STM. @ 0.48%

EX. 16.4m-900mm CONC. STM. @ 0.49%

EX. 88.3m-825mm CONC. STM. @ 0.33%

EX. 12.2m-1050mm CONC. STM. @ 1.96%

EX. 79.9m-1200mm CONC. STM. @ 0.28%

EX. 83.5m-1200mm CONC. STM. @ 0.28%

EX. 59.0m-1200mm CONC. STM. @ 0.31%

EX. 56.5m-1200mm CONC. STM. @ 0.31%

MH1

20.2m-250mm PVC (SDR-35) @ 2.00% (CONCRETE ENCASED)

55.3m-450mm CONC. STM. @ 0.50%

MH2

67.8m-525mm CONC. STM. @ 0.50%

21.2m-250mm PVC (SDR-35) @ 2.00% (CONCRETE ENCASED)

32.3m-450mm PVC STM. @ 0.50%

CBMH4

MH3

36.7m-525mm CONC. STM. @ 0.50%

75.0m-250mm PVC (SDR-35) @ 2.00% (CONCRETE ENCASED)

37.2m-250mm PVC (SDR-35) @ 2.00% (CONCRETE ENCASED)

CBMH6

74.3m-600mm CONC. STM. @ 0.50%

50.1m-525mm CONC. STM. @ 0.51%

MH4

7.0m-600mm CONC. STM. @ 0.50%

WEST STORM TANK H1 (VOL=435m³)

EAST STM TANK H1 (VOL=1340m³)

2.8m-525mm CONC. STM. @ 1.23%

MH7

5.4m-600mm CONC. STM. @ 1.20%

4.1m-600mm CONC. STM. @ 0.22%

150m-750mm CONC. STM. @ 0.00%

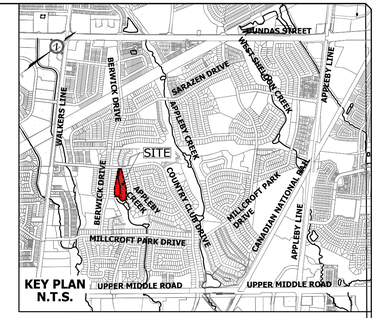
MH6

HW9

34459.25
142.12

34356
141.79

34412.72
141.81



KEY PLAN N.T.S.

LEGEND

- EXISTING STORM SEWER AND MANHOLE
- STORM SEWER AND MANHOLE
- EXISTING WATERCOURSE
- LIMIT OF PROPERTY
- LIMIT OF DEVELOPMENT
- PROPOSED OVERLAND FLOW ROUTE
- EXISTING OVERLAND FLOW ROUTE
- 286 / 138.42 — RIVER STATION / RIVER SECTION / FLOOD ELEVATION
- PROPOSED FLOOD LINE
- FLOOD LINE +15.0m OFFSET
- EXISTING DEVELOPMENT LANDS
- 6.0M BUFFER TO BE REGRADED WHERE NECESSARY AND RESTORED
- LIMIT OF DISTURBANCE

BENCHMARK

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Halton REGION

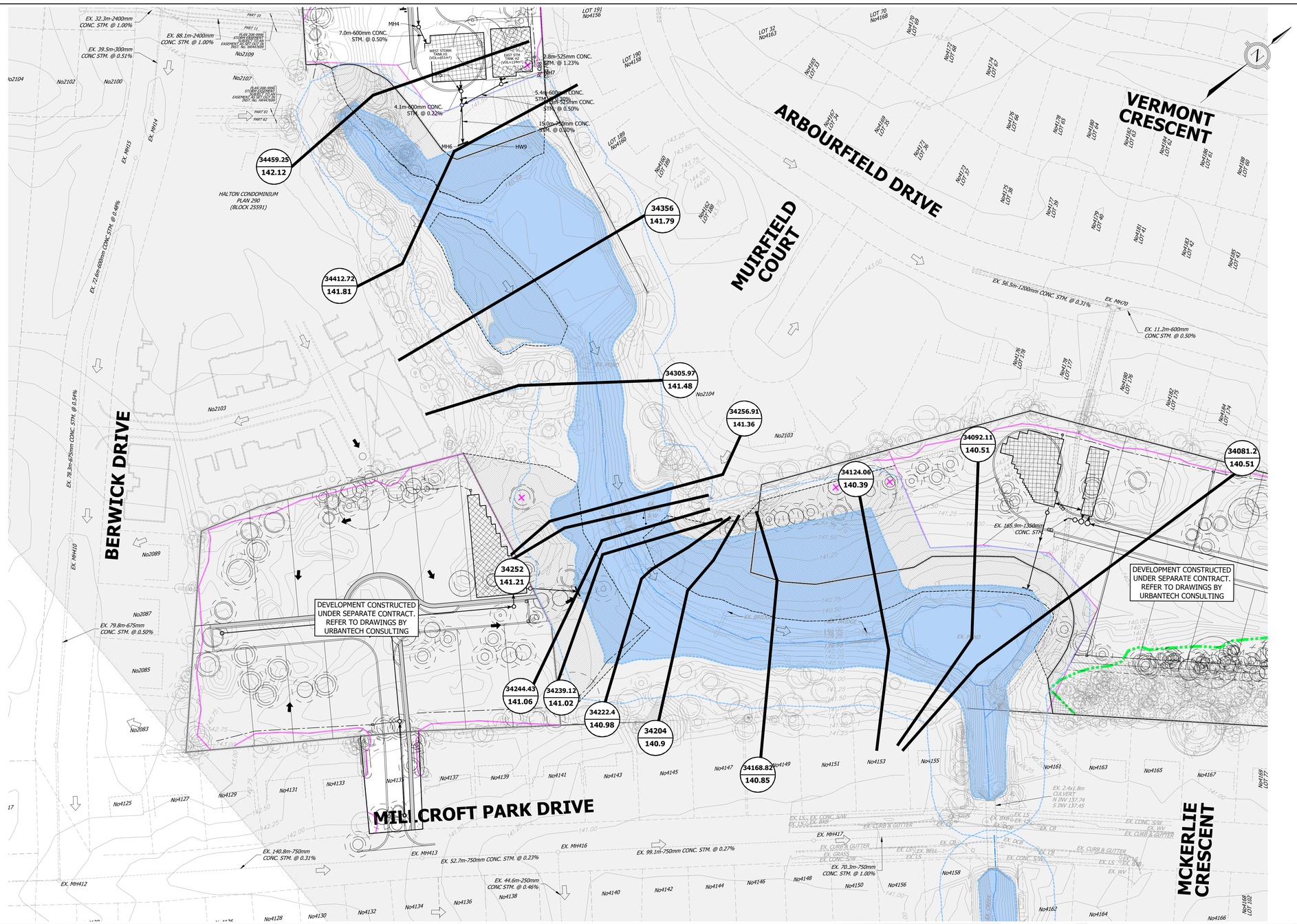
City of Burlington

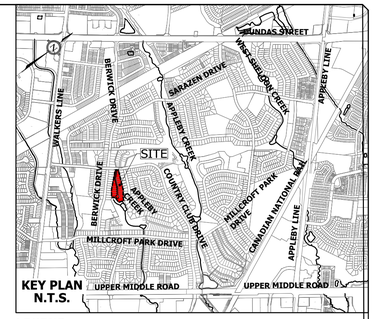
MILLCROFT GREENS CORPORATION
BLOCK H

PROPOSED FLOODPLAIN PLAN

CITY FILE No.	REGION DEVELOPMENT PROJECT NUMBER:
X	X
CONTRACT NO.	DRAWING No.
25-342	H-503

File: F:\PROJECTS\25-342 MILLCROFT PHASE 2\DRAWINGS\PRELIMINARY ENGINEERING & FIGURES\AREA H\500 - CHANNEL\503_PROPOSED FLOODPLAIN PLAN.DWG - REVISED BY:<xgrimm> - 05, December 05, 2025 8:36 PM





LEGEND

- EXISTING STORM SEWER AND MANHOLE
- STORM SEWER AND MANHOLE
- EXISTING WATERCOURSE
- LIMIT OF PROPERTY
- LIMIT OF DEVELOPMENT
- PROPOSED OVERLAND FLOW ROUTE
- EXISTING OVERLAND FLOW ROUTE
- 286 / 138.42 — RIVER STATION, RIVER SECTION, FLOOD ELEVATION
- PROPOSED FLOOD LINE
- FLOOD LINE +15.0m OFFSET
- EXISTING DEVELOPMENT LANDS
- 6.0M BUFFER TO BE REGRADED WHERE NECESSARY AND RESTORED
- LIMIT OF DISTURBANCE

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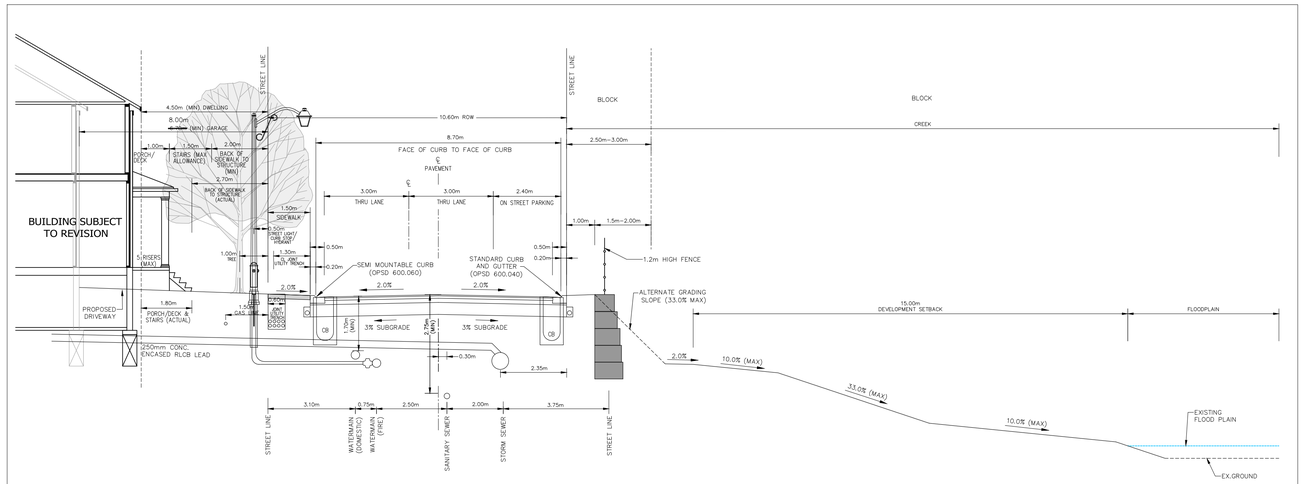
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BLOCK H

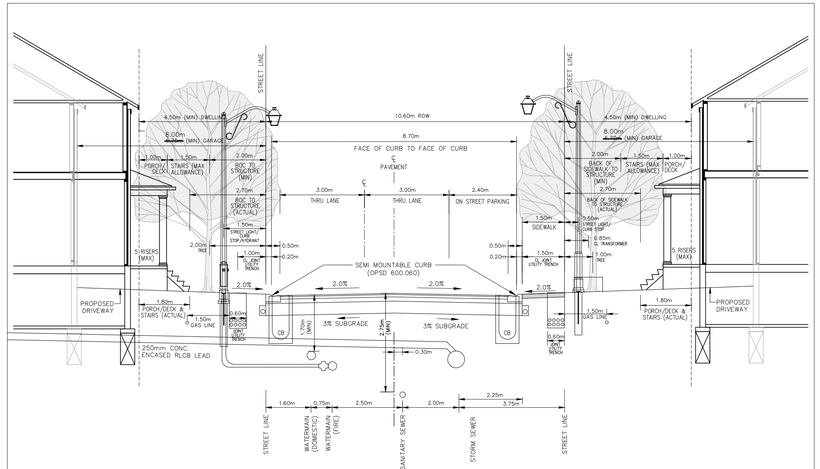
PROPOSED FLOODPLAIN PLAN

CITY FILE No.	REGION DEVELOPMENT PROJECT NUMBER:
X	X
CONTRACT NO.	DRAWING No.
25-342	H-504

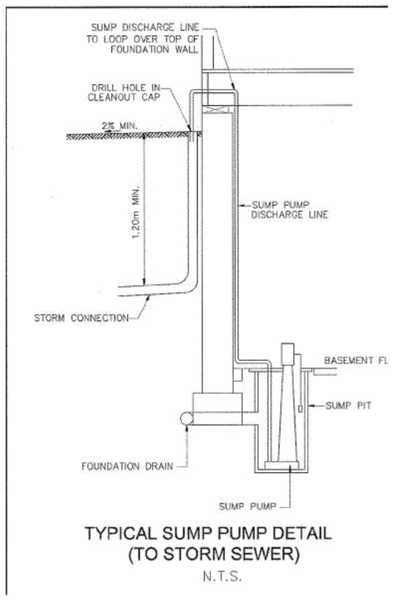
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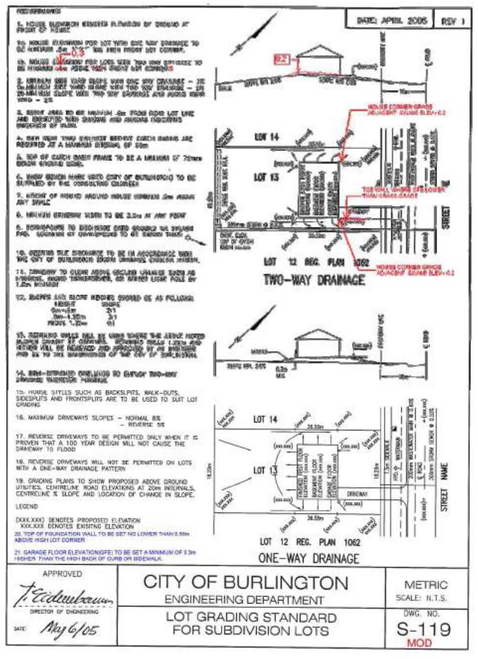
CONDOMINUM ROAD WITH NHS
10.60m R.O.W
2 THRU LANES WITH PARKING / 8.70m PAVEMENT
SCALE: N.T.S.



CONDOMINUM ROAD
10.60m R.O.W
2 THRU LANES WITH PARKING / 8.70m PAVEMENT
SCALE: N.T.S.



TYPICAL SUMP PUMP DETAIL
(TO STORM SEWER)
N.T.S.



BENCHMARK

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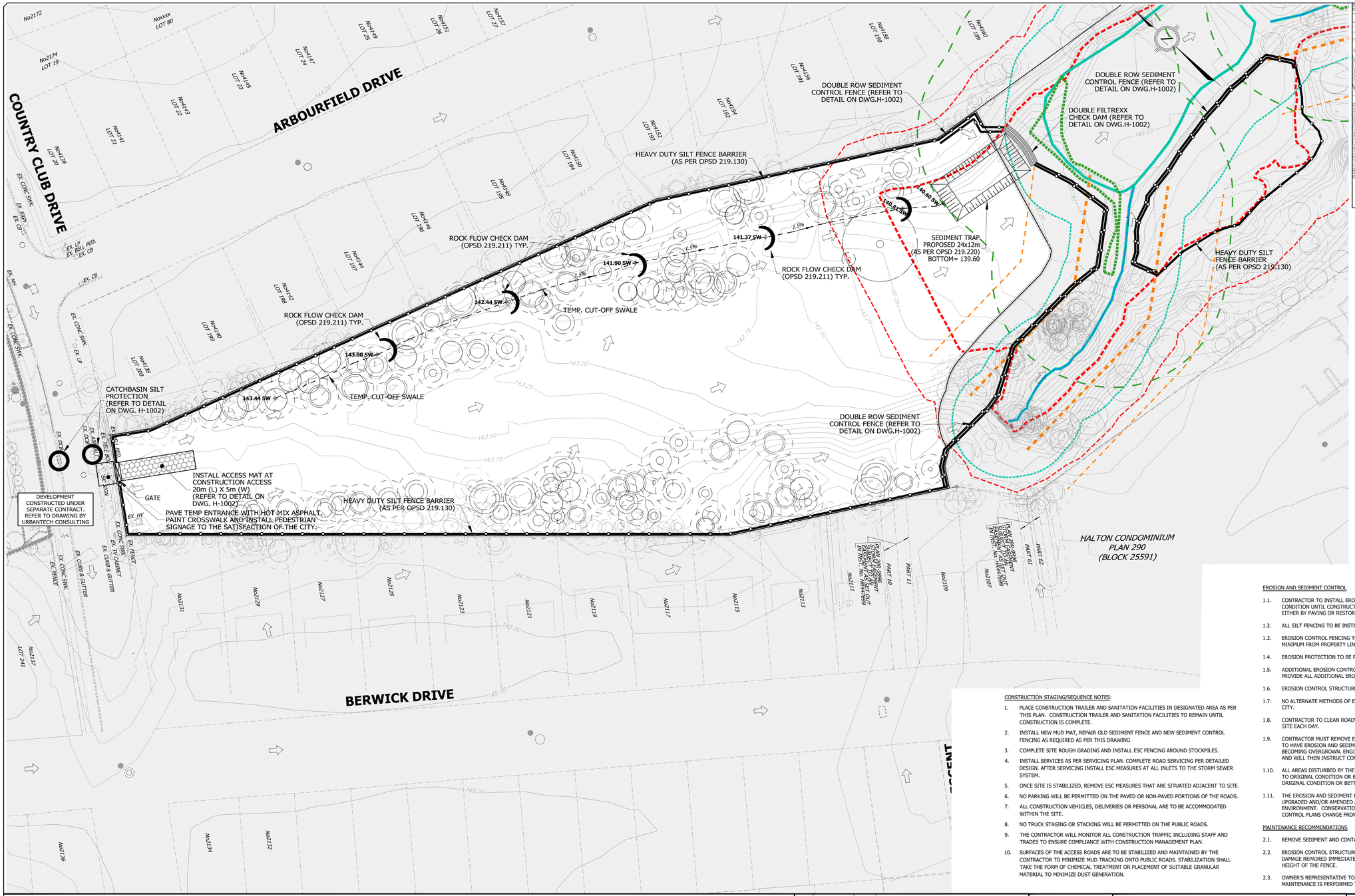
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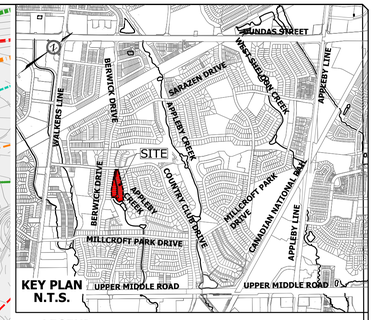
Halton REGION
CITY OF Burlington

MILLCROFT GREENS CORPORATION
BLOCK H

SERVICING PLAN

CITY FILE No.	REGION DEVELOPMENT PROJECT NUMBER:
X	X
CONTRACT NO.	DRAWING No.
25-342	**H-701**





LEGEND

- EXISTING STORM MANHOLE
- EXISTING SANITARY MANHOLE
- EXISTING SINGLE/REARLOT CATCHBASIN
- EXISTING DOUBLE CATCHBASIN
- EXISTING HYDRANT & VALVE
- EXISTING VALVE & BOX
- CATCHBASIN SILT PROTECTION (REFER TO DWG H-1002)
- EXISTING CONTOUR & ELEVATION
- MAXIMUM 3:1 SLOPE (UNLESS OTHERWISE NOTED)
- HEAVY DUTY SILT FENCE (REFER TO DWG H-1002)
- DOUBLE ROW HEAVY DUTY SILT FENCE (REFER TO DWG H-1002)
- EXISTING DEVELOPMENT LANDS
- LIMIT OF PROPERTY
- EXISTING WATERCOURSE
- MEANDER BELT
- MEANDER BELT +15.0m OFFSET
- WETLANDS (TERRASTORY)
- WETLANDS (TERRASTORY) +30.0m OFFSET
- EXISTING FLOODPLAIN
- EXISTING FLOODPLAIN +15.0m OFFSET
- FISH HABITAT
- FISH HABITAT +15.0m OFFSET
- EXISTING TREES TO BE PRESERVED
- EXISTING TREES
- EXISTING OVERLAND FLOW DIRECTION

EROSION AND SEDIMENT CONTROL

1.1. CONTRACTOR TO INSTALL EROSION CONTROL MEASURES AS SHOWN PRIOR TO CONSTRUCTION AND MAINTAIN IN GOOD CONDITION UNTIL CONSTRUCTION IS COMPLETED AND ALL DISTURBED GROUND SURFACES HAVE BEEN RESTABILIZED EITHER BY PAVING OR RESTORATION OF VEGETATIVE COVER..

1.2. ALL SILT FENCING TO BE INSTALLED PRIOR TO ANY AREA GRADING, EXCAVATING OR DEMOLITION COMMENCING.

1.3. EROSION CONTROL FENCING TO BE INSTALLED AROUND BASE OF ALL STOCKPILES. ALL STOCKPILES TO BE KEPT 2.5M MINIMUM FROM PROPERTY LINE, 15m FROM ANY WATER COURSE/WETLAND.

1.4. EROSION PROTECTION TO BE PROVIDED AROUND ALL STORM CBS.

1.5. ADDITIONAL EROSION CONTROL MEASURES MAY BE REQUIRED AS SITE DEVELOPMENT PROGRESSES. CONTRACTOR TO PROVIDE ALL ADDITIONAL EROSION CONTROL STRUCTURES.

1.6. EROSION CONTROL STRUCTURES TO REMAIN IN PLACE UNTIL ALL DISTURBED GROUND SURFACES HAVE BEEN RESTABILIZED.

1.7. NO ALTERNATE METHODS OF EROSION PROTECTION SHALL BE PERMITTED UNLESS APPROVED BY THE ENGINEER AND THE CITY.

1.8. CONTRACTOR TO CLEAN ROADWAY AND SIDEWALKS OF SEDIMENTS RESULTING FROM CONSTRUCTION TRAFFIC FROM THE SITE EACH DAY.

1.9. CONTRACTOR MUST REMOVE EROSION AND SEDIMENTATION FENCING PRIOR TO COMPLETION OF PROJECT. CONTRACTOR TO HAVE EROSION AND SEDIMENTATION FENCE INSPECTED WHEN VEGETATION HAS ESTABLISHED, BUT PRIOR TO FENCE BECOMING OVERGROWN. ENGINEER'S REPRESENTATIVE TO DETERMINE IF VEGETATION HAS REACHED THE CRITICAL POINT AND WILL THEN INSTRUCT CONTRACTOR TO REMOVE FENCE.

1.10. ALL AREAS DISTURBED BY THE CONTRACTOR DURING CONSTRUCTION OF THE WORKS SHOWN HEREON SHALL BE RESTORED TO ORIGINAL CONDITION OR BETTER. ALL GRASS AND VEGETATION COVERED AREAS SHALL BE RESTORED TO THE ORIGINAL CONDITION OR BETTER AS DETERMINED BY THE ENGINEER.

1.11. THE EROSION AND SEDIMENT CONTROL STRATEGIES OUTLINED ON THE PLANS ARE NOT STATIC AND MAY NEED TO BE UPGRADED AND/OR AMENDED AS SITE CONDITIONS CHANGE TO PREVENT SEDIMENT RELEASES TO THE NATURAL ENVIRONMENT. CONSERVATION HALTON SHALL BE CONTACTED IMMEDIATELY SHOULD THE EROSION AND SEDIMENT CONTROL PLANS CHANGE FROM THE APPROVED PLANS. FAILED ESC MEASURES SHALL BE REPAIRED IMMEDIATELY.

MAINTENANCE RECOMMENDATIONS

2.1. REMOVE SEDIMENT AND CONTAMINANTS ANNUALLY AND REINSTATE ACCORDING TO THE DESIGN OUTLINED ON THIS PLAN.

2.2. EROSION CONTROL STRUCTURES TO BE INSPECTED BI-WEEKLY AND/OR AFTER SIGNIFICANT RAIN EVENTS AND ANY DAMAGE REPAIRED IMMEDIATELY. SEDIMENTS TO BE REMOVED WHEN ACCUMULATIONS REACH A MAXIMUM OF 1/3 THE HEIGHT OF THE FENCE.

2.3. OWNER'S REPRESENTATIVE TO MONITOR EROSION CONTROL STRUCTURES TO ENSURE FENCING IS INSTALLED AND MAINTENANCE IS PERFORMED TO CITY REQUIREMENTS.

CONSTRUCTION STAGING/SEQUENCE NOTES:

1. PLACE CONSTRUCTION TRAILER AND SANITATION FACILITIES IN DESIGNATED AREA AS PER THIS PLAN. CONSTRUCTION TRAILER AND SANITATION FACILITIES TO REMAIN UNTIL CONSTRUCTION IS COMPLETE.
2. INSTALL NEW MUD MAT, REPAIR OLD SEDIMENT FENCE AND NEW SEDIMENT CONTROL FENCING AS REQUIRED AS PER THIS DRAWING
3. COMPLETE SITE ROUGH GRADING AND INSTALL ESC FENCING AROUND STOCKPILES.
4. INSTALL SERVICES AS PER SERVICING PLAN. COMPLETE ROAD SERVICING PER DETAILED DESIGN. AFTER SERVICING INSTALL ESC MEASURES AT ALL INLETS TO THE STORM SEWER SYSTEM.
5. ONCE SITE IS STABILIZED, REMOVE ESC MEASURES THAT ARE SITUATED ADJACENT TO SITE.
6. NO PARKING WILL BE PERMITTED ON THE PAVED OR NON-PAVED PORTIONS OF THE ROADS.
7. ALL CONSTRUCTION VEHICLES, DELIVERIES OR PERSONAL ARE TO BE ACCOMMODATED WITHIN THE SITE.
8. NO TRUCK STAGING OR STACKING WILL BE PERMITTED ON THE PUBLIC ROADS.
9. THE CONTRACTOR WILL MONITOR ALL CONSTRUCTION TRAFFIC INCLUDING STAFF AND TRADES TO ENSURE COMPLIANCE WITH CONSTRUCTION MANAGEMENT PLAN.
10. SURFACES OF THE ACCESS ROADS ARE TO BE STABILIZED AND MAINTAINED BY THE CONTRACTOR TO MINIMIZE MUD TRACKING ONTO PUBLIC ROADS. STABILIZATION SHALL TAKE THE FORM OF CHEMICAL TREATMENT OR PLACEMENT OF SUITABLE GRANULAR MATERIAL TO MINIMIZE DUST GENERATION.

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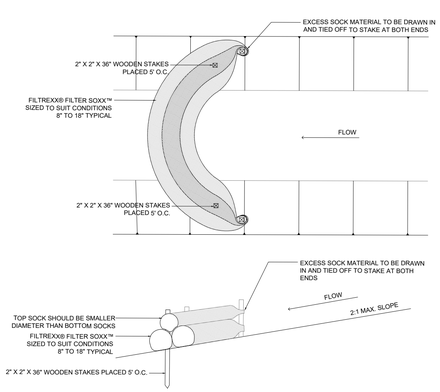
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MILLCROFT GREENS CORPORATION
BLOCK H

EROSION & SEDIMENT CONTROL PLAN

CITY FILE No.	REGION DEVELOPMENT PROJECT NUMBER:
X	X
CONTRACT NO. 25-342	DRAWING No. H-1001

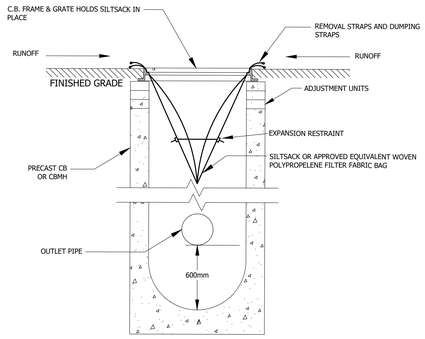
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FILTREXX® FILTER SOXX

NTS

NOTES:
1. ALL MATERIAL TO MEET FILTREXX® SPECIFICATIONS.
2. CHECK DAMS SHOULD BE USED IN AREAS THAT DRAIN 10 ACRES OR LESS.
3. SEDIMENT SHOULD BE REMOVED FROM BEHIND CHECK DAM ONCE THE ACCUMULATED HEIGHT HAS REACHED 1/2 THE HEIGHT OF THE CHECK DAM.
4. CHECK DAM CAN BE DIRECT SEEDED AT THE TIME OF INSTALLATION.
5. CONTRACTOR IS REQUIRED TO BE A FILTREXX CERTIFIED INSTALLER.

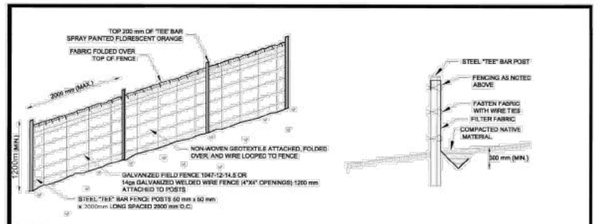


MAINTENANCE SCHEDULE

-INSPECT AFTER EVERY MAJOR RAIN EVENT.
-INSPECT EVERY 3 WEEKS MINIMUM.
-SILTSACK SHOULD NEVER BE OVER HALF FULL
-FULL BAG CAN BE REMOVED, DUMPED, CLEANED AND REUSED (TO REMOVE INSERT 25mm REBAR INTO REMOVAL FLAP POCKETS) (TO DUMP INSERT 25mm REBAR INTO BOTH DUMPING STRAPS)

SILTSACK DETAIL

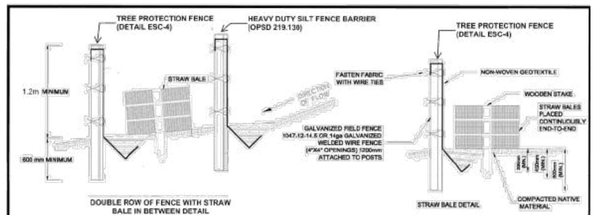
N.T.S.



NOTES:
1. SEDIMENT CONTROL FENCE SHOULD BE ALIGNED WITH CONTOURS FOR SHEET OVERLAND FLOW.
2. SEDIMENT CONTROL FENCE IS TO BE LOCATED IN AREAS OF LOW SEDIMENT YIELD ON SLOPES THAT CONFORM TO MTO DRAINAGE MANUAL VOLUME 2 CHART F4-3C TOPOGRAPHIC FACTOR LS BASED ON SLOPE LENGTH AND GRADIENT.
3. SEDIMENT CONTROL FENCE SHALL BE INSTALLED WITH FILTER MEDIA FABRIC TIED INTO THE SOIL A MINIMUM OF 300 mm BY EITHER STATIC SLICING OR TRENCH METHODS WITH COMPACTION OF TRENCH MATERIAL MEETING 95% STANDARD PROCTOR DENSITY.
4. STEEL "T" BAR POSTS ARE TO BE SPACED A MAXIMUM DISTANCE OF 2000 mm ON CENTER.
5. FROZEN GROUND CONDITIONS REQUIRE FILTER FABRIC TO BE BACKFILLED IN TRENCH WITH CLEAR STONE.
6. GEOTEXTILE FABRIC TO BE COMPRISED OF NON-WOVEN U.V. STABILIZED MATERIAL FABRIC TO BE FOLDED OVER TOP OF FENCE A MINIMUM OF 300 mm AND WIRE FASTENED.
7. CONSTRUCTION OPERATIONS SHALL BE CARRIED OUT IN SUCH A MANNER THAT EROSION AND WATER POLLUTION IS MINIMIZED.
8. ALL DIMENSIONS IN MILLIMETRES UNLESS OTHERWISE SHOWN.

TREE PROTECTION FENCE

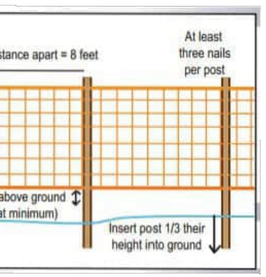
DETAIL - ESC-4



NOTES:
1. SEDIMENT CONTROL FENCE SHOULD BE ALIGNED WITH CONTOURS FOR SHEET OVERLAND FLOW.
2. SEDIMENT CONTROL FENCE IS TO BE LOCATED IN AREAS OF LOW SEDIMENT YIELD ON SLOPES THAT CONFORM TO MTO DRAINAGE MANUAL VOLUME 2 CHART F4-3C TOPOGRAPHIC FACTOR LS BASED ON SLOPE LENGTH AND GRADIENT.
3. SEDIMENT CONTROL FENCE SHALL BE INSTALLED WITH FILTER MEDIA FABRIC TIED INTO THE SOIL A MINIMUM OF 300 mm BY EITHER STATIC SLICING OR TRENCH METHODS WITH COMPACTION OF TRENCH MATERIAL MEETING 95% STANDARD PROCTOR MAXIMUM DRY DENSITY.
4. STEEL "T" BAR POSTS ARE TO BE SPACED A MAXIMUM DISTANCE OF 2000 mm ON CENTER.
5. STRAW BALES TO BE PLACED END-TO-END CONTINUOUSLY BETWEEN SEDIMENT CONTROL FENCES.
6. FROZEN GROUND CONDITIONS REQUIRE FILTER FABRIC TO BE BACKFILLED IN TRENCH WITH CLEAR STONE.
7. GEOTEXTILE FABRIC TO BE COMPRISED OF NON-WOVEN U.V. STABILIZED MATERIAL FABRIC TO BE FOLDED OVER TOP OF FENCE A MINIMUM OF 300 mm AND WIRE FASTENED.
8. CONSTRUCTION OPERATIONS SHALL BE CARRIED OUT IN SUCH A MANNER THAT EROSION AND WATER POLLUTION IS MINIMIZED.
9. ALL DIMENSIONS IN MILLIMETRES UNLESS OTHERWISE SHOWN.

DOUBLE ROW SEDIMENT CONTROL FENCE

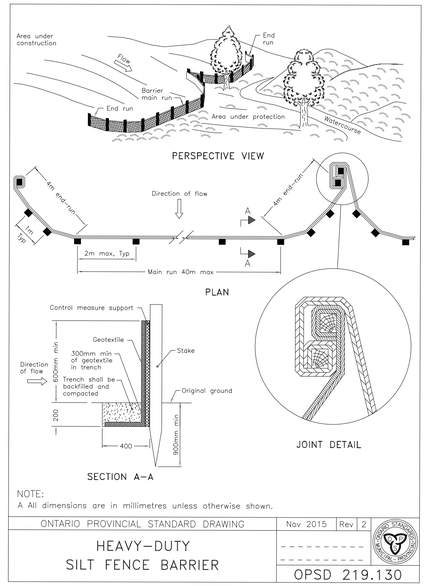
DETAIL - ESC-5



- SNOW FENCE SHOULD BE ATTACHED ON THE UPWIND SIDE OF THE THICKER WOODEN POST SO IT WILL BLOW AGAINST THE POST. INSERT THE POST 1/3 THEIR HEIGHT INTO THE GROUND. PLACE THE POSTS NO MORE THAN 8' APART.
- PULL THE FENCE TAUGHT AND NAIL THE SMALLER WOODEN POST TO THE UPWIND SIDE. THIS PREVENTS THE WIND FROM TEARING WHEN THE WIND WHIPS AGAINST THE POST. USE AT LEAST THREE NAILS FOR EACH POST TO PREVENT THE FENCE FROM SLIPPING UP AND DOWN THE POST.
- PLASTIC CABLE IS AN OPTION FOR ADDITIONAL SECURITY. LACE THE CABLE THROUGH THE APERTURES IN THE TOP AND BOTTOM EDGES OF THE FENCE.
- TO CONNECT FENCE SECTIONS, OVERLAP THE TWO ADJOINING ENDS BY AT LEAST 6' AND WEAVE THROUGH THE OVERLAPPING ENDS. SECURE TIES.
- TENAX SNOW FENCE CAN BE LEFT UP ALL YEAR AS A WIND BREAKER.

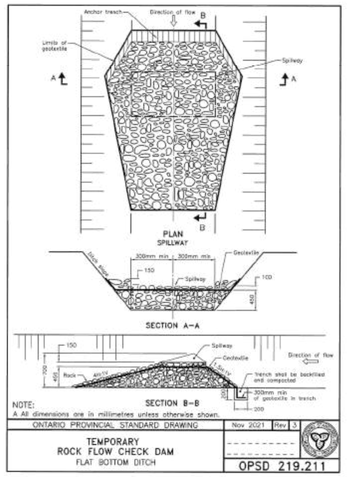
WE DO NOT RECOMMEND THE USE OF METAL POSTS TO SECURE THE PLASTIC SNOW FENCE. WOODEN POSTS ALLOW A CERTAIN FLEXIBILITY THAT IS IMPORTANT FOR BREAKING WIND.

SNOW FENCE DETAIL



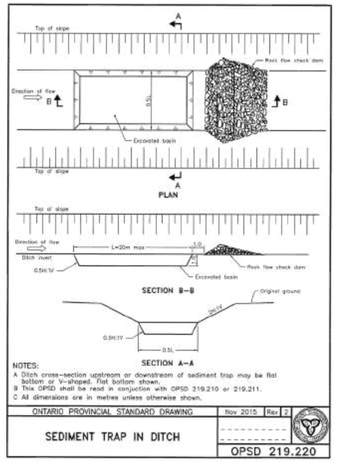
NOTE:
A All dimensions are in millimetres unless otherwise shown.

ONTARIO PROVINCIAL STANDARD DRAWING	Nov 2015	Rev 2
HEAVY-DUTY SILT FENCE BARRIER		
	OPSD 219.130	



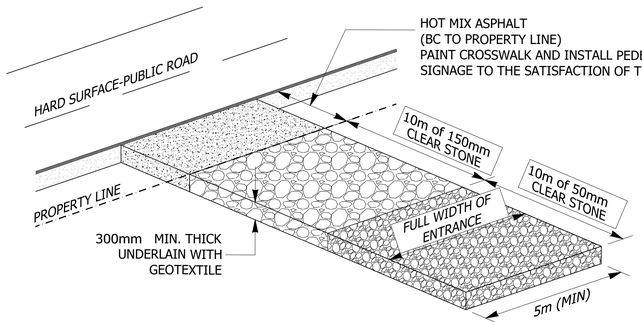
NOTE:
A All dimensions are in millimetres unless otherwise shown.

ONTARIO PROVINCIAL STANDARD DRAWING	Nov 2021	Rev 3
TEMPORARY ROCK FLOW CHECK DAM FLAT BOTTOM DITCH		
	OPSD 219.211	



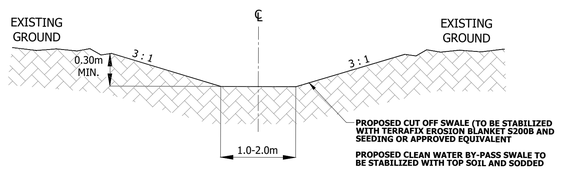
NOTES:
A Ditch cross-section upstream or downstream of sediment trap may be flat bottom or V-shaped. Flat bottom shown.
B This OPSD shall be read in conjuction with OPSD 219.210 or 219.211.
C All dimensions are in metres unless otherwise shown.

ONTARIO PROVINCIAL STANDARD DRAWING	Nov 2015	Rev 2
SEDIMENT TRAP IN DITCH		
	OPSD 219.220	



CONSTRUCTION ACCESS DETAIL

N.T.S.



TEMPORARY CUT-OFF SWALE

N.T.S.

BENCHMARK

ELEVATIONS ARE GEODETIC AND ARE REFERRED TO THE CITY OF BURLINGTON VERTICAL BENCHMARK NUMBER 414 HAVING AN ORTHOMETRIC ELEVATION OF 139.89 METRES. ELEVATIONS ARE REFERENCED TO THE CANADIAN GEODETIC VERTICAL DATUM OF 1928, 1978 ADJUSTMENT (CGVD-1928:1978).
BRASS PLAQUE SET ON SOUTHWEST CORNER OF WING WALL OF CULVERT 0.50m FROM SOUTH END AND 0.13m BELOW TOP OF WALL ON MILLCROFT PARK DRIVE AND APPROXIMATELY 40m EAST OF COUNTRY CLUB DRIVE ON THE SOUTH SIDE OF THE ROAD.

NO.	DATE	BY	REVISIONS
1	SEPT. 25, 2025	S.A.H.	FIRST SUBMISSION

DESIGN	A.G.	CHECKED	S.H.	DATE JULY 2025
DRAWN	A.A.	CHECKED	S.H.	
REFERENCES:				SCALE N.T.S
FIELD NOTES:				

URBANTECH

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Halton REGION

City of Burlington

MILLCROFT GREENS CORPORATION
BLOCK H
EROSION & SEDIMENT CONTROL DETAILS

CITY FILE No.	REGION DEVELOPMENT PROJECT NUMBER:
X	X
CONTRACT NO.	DRAWING No.
25-342	**H-1002**

File: F:\PROJECTS\25-342 MILLCROFT PHASE 2\DRAWINGS\PRELIMINARY ENGINEERING & FIGURES\AREA H\1000 - EROSION\1002-EROSION & SEDIMENT CONTROL DETAILS.DWG - REVISED BY:<xrefmm> - 05, December 05, 2025 8:38 PM