
DRAWINGS

GENERAL NOTES:

- ALL DIMENSIONS AND ELEVATIONS ARE IN METERS, PIPE SIZE IN MILLIMETERS, UNLESS OTHERWISE SPECIFIED.
- STANDARD DRAWINGS AND SPECIFICATIONS OF THE TOWN OF MILTON, THE REGIONAL MUNICIPALITY OF HALTON, THE MINISTRY OF TRANSPORTATION AND THE ONTARIO PROVINCIAL STANDARD DRAWINGS AND SPECIFICATIONS ARE PART OF THE PLANS OF THE SUBDIVISION.
- SOIL AND GEOTECHNICAL INFORMATION FROM GEOTECHNICAL INVESTIGATION REPORT T16647-T DATED JULY 29, 2016 AND SUPPLEMENTARY GEOTECHNICAL INVESTIGATION REPORT T22885 DATED JUNE 17, 2022. ALL SERVICES BUILT IN FILL TO BE CERTIFIED BY THE GEOTECHNICAL ENGINEER. ALL BOREHOLES SHOWN ON THE DRAWING ARE FOR INFORMATION ONLY. REFER TO GEOTECHNICAL INVESTIGATION REPORTS FOR DETAILS.
- ALL SILT CONTROL AND EROSION PROTECTION MEASURES ARE TO BE IN PLACE PRIOR TO THE COMMENCEMENT OF CONSTRUCTION AND SHALL REMAIN IN PLACE AND BE MAINTAINED BY THE CONTRACTOR UNTIL CONSTRUCTION IS COMPLETE AND THE GRASS HAS ESTABLISHED GROUND COVER SUBJECT TO APPROVAL BY THE TOWN.
- INFORMATION REGARDING ANY EXISTING SERVICES AND/OR UTILITIES SHOWN IN THIS SET OF PLANS IS FURNISHED AS THE BEST AVAILABLE INFORMATION. THE CONTRACTOR SHALL INTERPRET THIS INFORMATION AS THEY SEE FIT, WITH THE UNDERSTANDING THAT THE OWNER AND TOWN DISCLAIM ALL RESPONSIBILITY FOR ITS ACCURACY AND/OR SUFFICIENCY. THE CONTRACTOR SHALL CONFIRM THE SIZE, LOCATION AND ELEVATION IN THE FIELD PRIOR TO CONSTRUCTION OF ANY EXISTING SERVICES AND/OR UTILITIES AND IS RESPONSIBLE FOR THE PROTECTION OF THESE SERVICES/UTILITIES TO THE SATISFACTION OF THE AUTHORITY HAVING JURISDICTION.
- ALL DIMENSIONS AND ELEVATIONS SHALL BE CHECKED AND VERIFIED IN THE FIELD BY THE CONTRACTOR PRIOR TO CONSTRUCTION AND THEY SHALL REPORT ANY DISCREPANCIES IMMEDIATELY TO THE ENGINEER. (DETAILS ARE NOT TO BE SCALED FROM DRAWINGS)
- ALL AREAS DISTURBED BY THE CONTRACTOR DURING THE CONSTRUCTION WORKS SHOWN HEREON SHALL BE RESTORED TO ORIGINAL CONDITION OR BETTER. ALL GRASS AND VEGETATION COVERED AREAS SHALL BE RESTORED BY PLACING 400MM OF HORTICULTURAL GRADE TOPSOIL AS PER SECTION 1.1.8.2 OF THE TOWN'S ENGINEERING AND PARKS STANDARDS MANUAL (EPSM) AND NO. 1 NURSERY SOD OR ADEQUATE SEED AND MULCH TO ESTABLISH A GRASS COVER TO THE SATISFACTION OF THE TOWN OF MILTON, THE REGIONAL MUNICIPALITY OF HALTON OR CONSERVATION HUNTER.
- ALL NATIVE TRENCH BACKFILL MATERIAL TO BE COMPACTED TO 95% STANDARD PROCTOR DENSITY (SPD). THE UPPER 600MM OF THE TRENCH ON THE TRAVELLED PORTION OF THE ROAD TO BE COMPACTED TO 98% SPD AND UNTRAVELLED PORTIONS TO 95% SPD. NATIVE MATERIAL WILL BE SUBJECT TO THE APPROVAL OF THE TOWN. SHOULD THE MATERIAL BE FOUND TO BE UNACCEPTABLE, THEN APPROVED IMPORTED GRANULAR MATERIAL WILL BE REQUIRED.
- GRANULAR MATERIAL USED FOR BACKFILL, SHALL BE PLACED IN LAYERS 150MM IN DEPTH MAXIMUM AND COMPACTED TO 100% STANDARD PROCTOR MAXIMUM DRY DENSITY.
- ALTERNATIVE MATERIAL MAY BE ACCEPTABLE, PROVIDED APPROVAL HAS BEEN FIRST OBTAINED FROM THE TOWN OF MILTON COMMISSIONER OF DEVELOPMENT SERVICES.
- NO STOCKPILING OR STORAGE OF MATERIALS IS PERMITTED ON TOWN PARK BLOCKS. INSTALL TEMPORARY FENCING ALONG PARK PERIMETER AND MAINTAIN IN A STATE OF GOOD REPAIR UNTIL ACCEPTANCE BY THE TOWN.
- ALL FENCING SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE TOWN OF MILTON ENGINEERING AND PARK STANDARDS.
- ALL CONSTRUCTION AND TRENCHING WORK TO BE DONE IN ACCORDANCE WITH THE 'CONSTRUCTION SAFETY ACT' AND THE 'THE OCCUPATIONAL HEALTH AND SAFETY ACT'. THE CONTRACTOR SHALL BE DEEMED TO BE 'THE CONTRACTOR AS DEFINED IN THE ACT.'
- ALL CONSTRUCTION SIGNAGE MUST CONFORM TO THE M.T.O., 'ONTARIO TRAFFIC MANUAL, BOOK 7.'
- THE OWNER IS RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS FROM THE DEVELOPMENT SERVICES DEPARTMENT, TOWN OF MILTON, FOR THE PURPOSE OF VEHICULAR ACCESS TO THE PROPERTY (ENTRANCE PERMIT) AND SERVICING EXCAVATIONS WITHIN THE MUNICIPAL ROAD ALLOWANCE (ROAD OCCUPANCY PERMIT).
- THE TOWN OF MILTON, REGION OF HALTON, AND CONSERVATION HUNTER ARE TO BE NOTIFIED 48 HOURS PRIOR TO THE START OF CONSTRUCTION IN ORDER TO ARRANGE FOR INSPECTION.
- TOWN OF MILTON BY-LAWS APPLY TO ALL CONSTRUCTION WORKS: BY-LAW 035-2020 (OBSTRUCTING, ENCUMBERING, OR FOULING (MUD TRACKING)), BY-LAW 133-2012 (NOISE), AND BY-LAW 094-2022 (SITE ALTERATION)
- WORK AND MATERIALS SHALL CONFORM TO THE LATEST REVISIONS OF THE STANDARDS AND SPECIFICATIONS OF THE TOWN OF MILTON, THE REGION OF HALTON AND ONTARIO PROVINCIAL STANDARD DRAWINGS (OPSD) AND SPECIFICATIONS (OPSS), AS AMENDED BY THE TOWN OF MILTON AND THE REGION OF HALTON.
- EXISTING WELLS AND PRIVATE SEWAGE DISPOSAL SYSTEMS SHALL BE DECOMMISSIONED BY THE CONTRACTOR IN ACCORDANCE WITH M.O.E. REQUIREMENTS.
- THERE WILL BE NO SUBSTITUTION OF MATERIALS UNLESS PRIOR WRITTEN APPROVAL BY THE MUNICIPAL COMMISSIONER OF DEVELOPMENT SERVICES HAS BEEN OBTAINED.
- PRIOR TO CONSTRUCTION OF THE SITE SHALL BE CARRIED OUT UNDER THE FULL-TIME INSPECTION AND TESTING OF GEOTECHNICAL ENGINEER IN ORDER TO ENSURE THAT THE RECOMMENDATIONS ARE CORRECTLY IMPLEMENTED AND ALSO TO PROVIDE ANY ADDITIONAL RECOMMENDATIONS THAT MAY BE REQUIRED.
- REFERENCE TO STANDARD DRAWINGS SHALL MEAN THE STANDARD DRAWINGS OF THE CORPORATION OF THE TOWN OF MILTON AND THE REGIONAL MUNICIPALITY OF HALTON UNLESS OTHERWISE NOTED. THESE SHALL BE THE REVISION IN EFFECT AS OF THE DATE OF THEIR APPROVAL OF THE CONSTRUCTION DRAWINGS.
- THE NOTES ON THIS SHEET APPLY TO ALL WORKS UNDER THIS SITE PLAN UNLESS OTHERWISE NOTED ON THE DETAIL DRAWINGS.
- PREVIOUS AREAS THROUGHOUT THE SITE TO USE 400mm OF TOPSOIL, PER THE SPECIFICATIONS IN THE SITE WIDE WATER BALANCE REPORT PREPARED BY TERRAPROBE DATED APRIL 12, 2023.
- COMPLY WITH THE CODE AND MOE GUIDELINES FOR THE INSTALLATION, MATERIALS, CONNECTIONS AND TESTING. TESTING OF THE SANITARY SEWERS SHALL BE IN ACCORDANCE WITH OPSS 410. STANDARD AND WATER AS PER OBC IN COORDINATION WITH REGION INSPECTOR.

ROADWORK NOTES:

- ALL WORK TO BE CONSTRUCTED IN ACCORDANCE WITH TOWN OF MILTON SPECIFICATIONS FOLLOWING MATERIALS AND DEPTHS INDICATED IN THE TOWN'S ENGINEERING AND PARKS STANDARDS MANUAL.
- ALL TOPSOIL AND ORGANIC MATERIAL WITHIN ROAD ALLOWANCE SHALL BE STRIPPED PRIOR TO THE COMMENCEMENT OF CONSTRUCTION.
- NATIVE SUB-GRADE SHALL HAVE A CROSSFALL OF 3% AND THE MATERIAL SHALL BE APPROVED BY THE GEOTECHNICAL CONSULTANT.
- ADDITIONAL SUBGRADE PREPARATION SHALL BE REQUIRED AS RECOMMENDED IN THE GEOTECHNICAL INVESTIGATION AND WHEN INSTRUCTED BY THE GEOTECHNICAL INSPECTOR.
- PRIOR TO PLACING TOPSOIL, THE SUB-GRADE MATERIAL MUST BE PROOF ROLLED IN THE PRESENCE OF THE TOWN AND THE GEOTECHNICAL CONSULTANT. THE SUITABILITY AND COMPACTION OF THE SUB-GRADE MATERIAL SHALL BE CONFIRMED BY THE GEOTECHNICAL CONSULTANT PRIOR TO INSTALLATION OF ANY GRANULAR MATERIALS.
- ALL GRANULAR MATERIAL SHALL BE COMPACTED TO 100% STANDARD PROCTOR DENSITY. ALL NATIVE FILL WITHIN THE ROAD ALLOWANCE TO BE COMPACTED TO 98% STANDARD PROCTOR DENSITY. THE SUITABILITY AND COMPACTION OF ALL FILL MATERIALS SHALL BE CONFIRMED BY THE GEOTECHNICAL CONSULTANT PRIOR TO INSTALLATION OF ANY ROAD BASE MATERIALS.
- MANHOLES AND CATCHBASINS TO BE SET WITHIN THE PLACEMENT OF GRADE PRIOR TO INSTALLING TOP OF ASPHALT.
- RECYCLED ASPHALT PRODUCT (RAP) IS NOT PERMITTED IN SURFACE COURSE (HL-1 OR HL-3), OR IN BINDER COURSE (HL-8) DESIGN MIXES. NO OTHER RECYCLED ADDITIVES ALLOWED.
- ASPHALT MIX DESIGNS MUST BE PROVIDED TO THE TOWN, FOR APPROVAL, NO LESS THAN TWO WEEKS PRIOR TO SCHEDULE PAVING.
- THE FIRST ASPHALT SAMPLE MUST BE TAKEN FROM THE FIRST LOAD DELIVERED TO THE SITE ON THE FIRST DAY OF PAVEMENT. TEST RESULTS FOR THIS SAMPLE TO BE READY WITHIN 24 HOURS.
- TOP COURSE LAYERS THROUGHOUT THE SITE TO USE 400mm OF TOPSOIL, PER THE SPECIFICATIONS IN THE SITE WIDE WATER BALANCE REPORT PREPARED BY TERRAPROBE DATED APRIL 12, 2023.
- THE MATERIAL SPECIFICATION FOR PERFORMANCE GRADED ASPHALT CEMENT SHALL BE PER OPSS/MM 1101. THE USE OF ASPHALT CEMENT THAT HAS BEEN MODIFIED WITH VACUUM TOWER ASPHALT EXTENDERS (VTAE) SHALL NOT BE USED IN SURFACE AND BINDER COURSE. AFTER ALL SERVICES INSTALLED, TACK COAT REQUIRED PRIOR TO TOP.
- BE REQUIRED TO SUBMIT A FORMAL LETTER FROM THE AC SUPPLIER THAT CERTIFIES THE AC PROVIDED FOR THE PROJECT HAS NOT BEEN MODIFIED WITH VTAE'S.
- A SHUTTLE BUGGY ASPHALT MATERIAL TRANSFER VEHICLE (AMTV) IS REQUIRED FOR ALL PAVING OPERATIONS, INCLUDING OPERATIONS USING ONLY ONE PAYER.
- PAVING IN ECHELON IS MANDATORY FOR THE PLACEMENT OF BINDER AND SURFACE COURSE ASPHALT. THE PAVERS SHALL BE OPERATED AT THE SAME TIME AND MAINTAIN A DISTANCE OF NOT MORE THAN 50 M FROM EACH OTHER SO THAT A HOT JOINT IS OBTAINED BETWEEN THE LANES OF MIXTURES BEING PLACED. THE CONTRACTOR SHALL SUPPLY SUFFICIENT PERSONNEL TO ADEQUATELY CONTROL BOTH SPREADING OPERATIONS SIMULTANEOUSLY.
- WHERE THE ENTIRE WIDTH OF THE PROPOSED PAVEMENT PLATFORM CANNOT BE PAVED IN ECHELON WITH TWO PAVERS, ONE LONGITUDINAL CONSTRUCTION JOINT IS PERMITTED. EACH HALF OF THE ROAD SHALL BE PAVED IN ECHELON RESULTING IN ONLY ONE LONGITUDINAL JOINT IN THE BINDER AND SURFACE COURSES LOCATED AT THE CENTERLINE OF THE ROAD. THE JOINT SHALL BE LOCATED TO ENSURE IT DOES NOT ALIGN WITH THE WHEEL PATH OF TRAFFIC.
- ANY PAVING ACTIVITIES NOT CONSISTENT WITH THIS APPROACH MUST BE APPROVED AT THE DISCRETION OF TOWN STAFF.
- IN-DEPTH PRESERVATIVE ASPHALT SEALANT IN THE PRESENCE OF THE CONSTRUCTION OF ALL TOWN ROADS. THE IN-DEPTH PRESERVATIVE SEALING SHALL BE APPLIED AFTER ALL THE ASPHALT TESTING HAVE BEEN COMPLETED AND ACCEPTED. REFER TO APPENDIX D-4 FOR SPECIFICATIONS.
- PAINTED PAVEMENT MARKINGS MUST BE INSTALLED ON BASE COURSE PRIOR TO BUILDING PERMIT ISSUANCE AND RE-APPLIED ANNUALLY, AS DIRECTED BY THE TOWN.
- FULL LENGTH 100MM DIAMETER PERFORATED, FILTER CLOTH WRAPPED, PLASTIC CORRUGATED SUB-DRAINAGE TO BE INSTALLED PER TOWN OF MILTON STANDARD DRAWING E-24. SUB-DRAINS ARE TO BE CONTINUOUS AND ALLOW WATER TO FLOW OVER CURB AND GUTTER.
- ALL PRIMARY HYDRO, TELECOMMUNICATION CABLE, GAS LINE AND CABLE T.V. SHALL BE PLACED UNDERGROUND IN LOCATION SHOWN ON THE ROAD SECTIONS LISTED IN THE STANDARD DRAWINGS.

MINOR LOCAL ROADS

- 400mm HL-3 HIGH STABILITY
- 100mm HL-8
- 150mm of 19mm LIMESTONE
- 300 GRANULAR "B", TYPE II

DRIVEWAYS, CURB & GUTTER NOTES:

- DRIVEWAY ENTRANCES SHALL BE PAVED BETWEEN BACK OF CURB AND PROPERTY LINE AND CONSTRUCTED WITH A MINIMUM OF 200MM GRANULAR "A", PAVED WITH A MINIMUM 75MM HL-3A IN TWO LIFTS AND PAVED PRIOR TO PLACEMENT OF TOP ASPHALT.
- MAXIMUM DRIVEWAY SLOPE NOT TO EXCEED 6% AND 5% APRON, MINIMUM DRIVEWAY SLOPE IS NOT LESS THAN 2%
- CONCRETE CURB AND GUTTER SHALL BE TWO-STAGE AS PER OPSP 600.070 AND SEMI-MOUNTABLE CURB AS PER 600.060. ALL CURBS TO UTILIZE 32 MPA CONCRETE (CSA A23.1), AS PER SECTION 1.1.6.1.B, TWO-STAGE THREE-KEY CURB" IS PREFERRED.
- CURBS SHALL BE DEPRESSED AT ALL INTERSECTIONS, PEDESTRIAN CROSSINGS, WALKWAYS, AND PARK/OPEN SPACE ENTRANCES IN ACCORDANCE WITH OPSP 310.030 TO ACCOMMODATE WHEELCHAIR ACCESS RAMP. CURB CUTS ARE NOT PERMITTED, WHERE THE CURB DEPRESSION FOR SIDEWALK AT INTERSECTION RADIUS IS NOT A CONTINUOUS APRON; AND THE BARRIER SECTION OF CURB BETWEEN CURB DEPRESSIONS IS LESS THAN 1.0M, IT SHALL ALSO BE DEPRESSED.
- WHERE CURB RAMP OR DEPRESSED CURBS ARE PROVIDED AT PEDESTRIAN CROSSINGS THEY MUST HAVE TACTILE WALKING SURFACE INDICATORS AS PER OPSP 310.033 MODIFIED BY THE TOWN OF MILTON.
- ALL TACTILE SURFACES SHALL BE RAISED TACTILE PROFILES, BE LOCATED AT THE BOTTOM PORTION OF THE DEPRESSED CURB THAT IS FLUSH WITH THE ROAD, WITH A CLEARANCE BETWEEN 150 MM AND 200 MM FROM THE CURB EDGE, BE A MINIMUM OF 610 MM IN DEPTH, LINE-UP PARALLEL TO THE CURB RADIUS AND COVER THE LENGTH OF THE CURB DEPRESSION, THE TACTILE SURFACES MUST BE CAST IRON, POWDER COATED DARK GREY, AND REMOVABLE. THE TACTILE SURFACES SHALL BE OF UNIFORM QUALITY AND FREE FROM SURFACE DEFECTS. MANUFACTURERS INCLUDE NEENAH FOUNDRY COMPANY, ADVANTAGE CAST IRON, TUFFILE, OR ANOTHER MANUFACTURER APPROVED BY THE TOWN OF MILTON. THE TACTILE SURFACES MUST BE INSTALLED IN FRESH CONCRETE FLUSH WITH THE ADJACENT SIDEWALK RESULTING IN A SNUG FIT BETWEEN TILES TO LIMIT WATER INFILTRATION AROUND THE PERIMETER OF THE SYSTEM AND BETWEEN TILES AND THE INSTALLATION PROCEDURES SHALL BE ACCORDING TO THE MANUFACTURER'S SPECIFICATIONS.

STORM SEWER NOTES:

- ALL SEWERS TO BE INSTALLED BY LASER AND CHECKED PRIOR TO BACKFILLING.
- THE UPSTREAM LEG OF ALL STORM SEWERS SHALL HAVE A MINIMUM SLOPE OF 1% UNLESS FUTURE DEVELOPMENT(S) TO THE UPSTREAM SIDE CANNOT ACCOMMODATE THE MINIMUM GRADE.
- ALL STORM SEWER TO HAVE RUBBER GASKETS JOINTS. ALL CONCRETE SEWER PIPES SHALL MEET CSA SPECIFICATIONS A257.1 (LATEST AMENDMENT) UNLESS OTHERWISE NOTED. CONCRETE PIPE USED WITHIN THE PUBLIC RIGHT OF WAY SHALL BE CONCRETE.
- ALL PVC PIPES SHALL MEET CSA REQUIREMENTS AS NOTED ON OPSS 1841.
- FOR MAIN SEWER PIPE OF ALL SIZES, PREFABRICATED TEES FROM THE PLANT SHALL BE UTILIZED UNLESS OTHERWISE APPROVED BY THE TOWN.
- JOINT BURIAL/COMMON TRENCHING WITH WASTEWATER SEWERS WILL ONLY BE CONSIDERED ON A 16-METRE RIGHT-OF-WAY AND WHEN SUPPORTED BY A SOILS REPORT PREPARED BY A QUALIFIED GEOTECHNICAL CONSULTANT.
- COMMON TRENCH SEWERS TO BE INSTALLED AS PER THE REGIONAL MUNICIPALITY OF HALTON STANDARD DRAWING S7 AND THE TOWN OF MILTON STANDARD DRAWING E-16.
- SEPARATE TRENCH SPACING TO BE 3.0M MINIMUM FROM CENTRE TO CENTRE. BEDDING SHALL BE CLASS "B" UNLESS OTHERWISE NOTED.
- APPROVED BACKFILL MATERIAL SHALL BE PLACED IN ACCORDANCE WITH OPSS 514, 515, AND 516. COMPACTION SOIL DENSITY TESTING SHALL BE CARRIED OUT TO ENSURE ADEQUATE COMPACTION AND STABILITY OF FILL AND TEST RESULTS SHALL BE SUBMITTED TO THE TOWN OF MILTON.
- WHERE TRENCH WIDTH IS OVER-EXCAVATED, CONTRACTOR TO INCREASE STRUCTURAL CAPACITY OF SEWER BEDDING AT THEIR OWN EXPENSE, AS DIRECTED BY THE CONSULTANT IN ACCORDANCE WITH THE REQUIREMENTS OF THE GEOTECHNICAL CONSULTANT. THE CONTRACTOR SHALL ALSO BE RESPONSIBLE FOR EXTRA TEMPORARY AND/OR PERMANENT REPAIRS MADE NECESSARY BY THE WIDENED TRENCH. BEDDING MATERIAL TO BE APPROVED BY THE TOWN AND GEOTECHNICAL ENGINEER.
- APPROVED NATIVE MATERIAL OR GRANULAR BACKFILL AS SPECIFIED BY THE GEOTECHNICAL CONSULTANT TO BE INSTALLED ON ALL PIPES AS PER OPSP 802.010, 802.030, 802.031, AND 802.032 AS MODIFIED BY THE TOWN OF MILTON ENGINEERING AND PARKS STANDARDS SO THAT EMBEDMENT BEDDING AND COVER MATERIAL IS GRANULAR "A" OR OTHER MATERIAL APPROVED BY THE TOWN.
- ALL NATIVE TRENCH BACKFILL MATERIAL TO BE COMPACTED TO 95% STANDARD PROCTOR DENSITY (SPD). THE UPPER 600MM OF THE TRENCH ON THE TRAVELED PORTION OF THE ROAD TO BE COMPACTED TO 98% SPD AND UNTRAVELED PORTIONS TO 95% SPD. NATIVE MATERIAL WILL BE SUBJECT TO THE APPROVAL OF THE TOWN. SHOULD THE MATERIAL BE FOUND TO BE UNACCEPTABLE, THEN APPROVED IMPORTED GRANULAR MATERIAL WILL BE REQUIRED.
- GRANULAR BACKFILL TO BE COMPACTED TO 98% SPD.
- THE LOCATIONS OF ANTI-SEEPAGE COLLARS SHOULD BE DETERMINED BY THE PROJECT GEOTECHNICAL CONSULTANT DURING SEWER CONSTRUCTION ON THE SITE. ANTI-SEEPAGE COLLARS SHOULD BE INSTALLED AT LOCATIONS WHERE THE SHALE AND/OR GROUNDWATER ARE ENCOUNTERED WITHIN INVERT DEPTHS OF THE SEWERS, IN ORDER TO PREVENT EROSION OF THE GRANULAR BEDDING PLACED IN THE SEWER TRENCH.
- STORM SEWER PIPES LARGER THAN 450MM ARE TO BE BENECHED THROUGHOUT TO THE CROWN OF PIPES ON A VERTICAL PROJECTION FROM SPRING LINE. STORM SEWER PIPES 450MM AND SMALLER ARE TO BE BENECHED TO SPRING LINE.
- FOR UNDERGROUND SERVICES WHERE WEATHERED SHALE MAY BE ENCOUNTERED, THE PROJECT GEOTECHNICAL ENGINEER SHOULD BE CONSULTED FOR CONSTRUCTION REQUIREMENTS.
- UNLESS OTHERWISE SPECIFIED, ALL PVC STORM MAINLINE SEWERS ARE TO BE SDR-35 AND ALL CONCRETE STORM MAINLINE SEWERS ARE TO BE 65-D.

STORM MANHOLE NOTES:

- MANHOLE FRAME AND COVER TO BE OPSP 401.010 "A" STAMPED WITH THE WORD "STORM". SAFETY PLATFORM PER OPSP 404.020 TO BE INSTALLED IN MANHOLES WHERE DEPTH EXCEEDS 5.0M. MANHOLE BENCHING AS PER OPSP 701.021, UNLESS OTHERWISE SPECIFIED. MANHOLES STEPS AS PER OPSP 405.010/405.020.
- GRANULAR BACKFILL AROUND MANHOLES AND MANHOLES CATCHBASINS TO BE PLACED A MINIMUM OF 600MM AROUND THE MANHOLE UP TO SUB-GRADE ELEVATION.
- THE FIRST JOINT OUT OF A MANHOLE TO BE CONCRETE ENCASED, IF CONCRETE PIPE IS USED; OR HAVE A FLEXIBLE JOINT, IF PVC PIPE IS USED; IN CONFORMANCE WITH OPSP 708.020.
- TOP MANHOLE COVER TO BE SET FLUSH WITH BACK COURSE ASPHALT GRADE AND THEN ADJUSTED TO FINAL GRADE WITH MODULOC RINGS WHEN TOP LIFT OF ASPHALT IS PLACE.
- THE DIRECTION OF FLOW IN ANY MAINTENANCE HOLE WILL NOT BE PERMITTED AT ACUTE INTERIOR ANGLES.
- DROP STRUCTURES SHALL CONFORM TO OPSP 1003.020.
- ALL MAINTENANCE HOLE CHAMBERS OPENINGS MUST BE LOCATED ON THE UPSTREAM SIDE OF THE MAINTENANCE HOLE.
- THE BENCHING IN ALL MAINTENANCE HOLES MUST NOT BE LESS THAN 225MM IN WIDTH AT ANY POINT IN THE MAINTENANCE HOLE.
- SEE DRAWING 16 FOR OPSP SPECIFICATIONS OF STM MANHOLES.

SUMP PUMP NOTES:

- SUMP PUMPS SHALL BE PROVIDED IN ACCORDANCE WITH SECTION 1.1.27.1, STD DWG. E-25, TO THE SATISFACTION OF THE TOWN OF MILTON, UNLESS OTHERWISE SPECIFIED.
- SUMP PUMPS SHALL OUTLET TO GRADE LOCATED 3.0M FROM ANY DOWNSPOUT IN THE REAR YARD AND DISCHARGE ONTO CONCRETE SPLASH PAD.
- BACK TO FRONT DRAINING LOTS FRONTING BY SIDEWALKS, REAR LANE TOWNHOUSES, AND OTHER LOCATIONS SUCH AS CORNER LOTS WITH SIDEWALK SHALL HAVE SUMP PUMP CONNECTED TO STORM SERVICE LATERALS, EQUIPPED WITH BACKFLOW PREVENTERS.

STORM SERVICE LATERALS NOTES:

- STORM SERVICE LATERALS TO BE MINIMUM 150MM IN DIAMETER, PVC SDR28 @ MINIMUM 2% SLOPE, RUBBER GASKET TYPE JOINTS, AND SHALL CONFORM TO CSA B-182.1-M-1977 (COLOR WHITE COVE).
- ALL DOWNSPOUTS SHALL DISCHARGE ONTO APPROVED SODDED AREAS USING SPLASH PADS FOR EROSION CONTROL.
- LOCATION OF STORM SERVICE LATERALS TO BE MARKED WITH A 50MM X 100MM WOOD MARKER PLACED FROM THE INVERT OF THE STORM SERVICE TO 1.0M ABOVE GROUND LEVEL TO BE PLACED AT THE ENDS OF EACH RESIDENTIAL CONNECTION (STREET LINE), TOP 0.5M OF THE MARKER TO BE PAINTED WHITE.
- MINIMUM DEPTHS OF THE STORM SERVICE LATERAL TO BE 1.2M AT STREET LINE MEASURED FROM THE LATERAL ORBERT TO FINISH GROUND SURFACE ELEVATION.
- ALL CONNECTION TO NEW STORM SEWER SHALL BE MADE WITH APPROVED PRE-MANUFACTURED TEES.
- COMMON SERVICE CONNECTION TRENCH SHALL BE PER TOWN OF MILTON STANDARD DRAWINGS E-16. STORM CONNECTION TO BE SECURELY PLUGGED AT THE END WITH AN APPROVED MECHANICAL PLUG.
- REAR TO FRONT DRAINING LOTS FRONTED BY SIDEWALK, REAR LANE TOWNHOUSES, AND CORNER LOT WITH SIDEWALKS DRAINING SHALL HAVE SUMP PUMPS CONNECTED TO THE STORM SERVICE LATERALS, EQUIPPED WITH BACKFLOW PREVENTERS. ALL OTHER UNITS SHALL BE EQUIPPED WITH SUMP PUMPS DISCHARGING TO SURFACE AS PER TOWN OF MILTON STANDARD E-25.

GRADING NOTES:

- DRIVEWAYS SHALL BE GRADED AT MINIMUM OF 2% AND MAXIMUM OF 6% SLOPE FROM THE GARAGE TO BACK OF SIDEWALK.
- ALL DOWNSPOUTS SHALL DISCHARGE ONTO APPROVED SODDED AREAS USING SPLASH PADS FOR EROSION CONTROL.
- ALL YARD SURFACES FRONT AND REAR SHALL HAVE A MINIMUM SLOPE OF 2.0%.
- REAR YARDS ARE TO HAVE A MINIMUM OF 75% OF THE YARD AREA AT A SLOPE OF NO GREATER THAN 5%. ALL YARDS TO BE SODDED WITH 150MM THICK TOPSOIL.
- ALL AREAS BEYOND THE LIMITS OF THE SITE WHICH ARE DISTURBED DURING CONSTRUCTION SHALL BE RESTORED TO THE SATISFACTION OF THE AUTHORITIES HAVING JURISDICTION, AT THE CONTRACTORS EXPENSE.
- PRIOR TO THE COMMENCEMENT OF SITE GRADING WORKS, ALL SILT CONTROL AND EROSION PROTECTION MEASURES ARE TO BE IN PLACE PRIOR TO THE COMMENCEMENT OF CONSTRUCTION AND SHALL REMAIN IN PLACE AND BE MAINTAINED BY THE CONTRACTOR UNTIL CONSTRUCTION IS COMPLETE AND THE GRASS HAS ESTABLISHED GROWTH, SUBJECT TO APPROVAL BY THE TOWN.
- BUILDINGS DETOINED AS REQUIRING ENGINEERED FILL (E.F.) ARE ESTIMATED AND FOR REFERENCE ONLY. FINAL E.F. REQUIREMENTS ARE TO BE DETERMINED ON-SITE BY THE PROJECT GEOTECHNICAL CONSULTANT. E.F. SHOWN ON THE PLANS INDICATE THAT FILL IS REQUIRED, BELOW AND UP TO 0.5m ABOVE THE ASSUMED UNDER SIDE OF FOOTING WITHIN THE BUILDING ELEVATION, AS SHOWN ON THE PLAN.

CATCHBASIN NOTES:

- SINGLE ROAD CATCHBASINS AS PER OPSP 705.010 AND DOUBLE CATCHBASINS AS PER 705.020. FRAME AND GRATE TO BE FLUSH TYPE OPSP 400.010. THE FIRST JOINT OUT OF A ROAD CATCHBASIN TO BE CONCRETE ENCASED, IF CONCRETE PIPE IS USED; OR HAVE A FLEXIBLE JOINT, IF PVC PIPE IS USED; IN CONFORMANCE WITH OPSP 708.020. ALL CATCHBASINS TO HAVE COMPLETE GRANULAR BACKFILL.
- REAR YARD CATCHBASINS AS PER OPSP 705.010, FRAME AND GRATE TO BE FLUSH TYPE OPSP 400.020. THE FIRST JOINT OUT OF A REAR YARD CATCHBASIN TO BE CONCRETE ENCASED, IF CONCRETE PIPE IS USED; OR FULLY CONCRETE ENCASED FROM CATCHBASIN TO PROPERTY LINE, IF PVC PIPE IS USED. REAR YARD CATCHBASINS TO BE SLEEPSLESS. PIPE BEDDING TO BE HL8 STONE, MINIMUM 150MM UNDER PIPE, TO SPRING AND 2.0M DEEP FOR BEDDING, BACKFILLED WITH 600MM OF HIGH PERFORMANCE STONE.
- DITCH INLET CATCHBASINS AS PER OPSP 705.030, FRAME AND GRATE TO BE FLUSH TYPE OPSP 400.010.
- ALL CATCHBASINS TO BE BACKFILLED WITH 600MM OF HIGH PERFORMANCE STONE.
- LEADS TO BE CONNECTED TO MAIN LINE SEWER IN ACCORDANCE WITH OPSP 708.030.
- ALL SINGLE CATCHBASIN LEADS TO BE 250MM IN DIAMETER @ 1.00% MINIMUM SLOPE. ALL DOUBLE CATCHBASIN LEADS TO BE 300MM IN DIAMETER @ 1.00% MINIMUM SLOPE. ALL LEADS TO BE MAXIMUM 25M IN LENGTH.
- FOR REAR LOT/YARD CATCHBASINS, THE MINIMUM CATCHBASIN LEAD CONNECTION DIAMETER WILL BE 250MM AND THE MINIMUM GRADE WILL BE 0.5%.
- FILTER FABRIC TO BE PLACED ON ALL STREETS AND REAR YARD CATCHBASINS. SILT TRAPS ARE TO BE CLEANED REGULARLY AND INSPECTED AFTER EACH RAINFALL BY THE CONTRACTOR AND NOT TO BE REMOVED UNTIL SUCH TIME AS THE CURBS ARE CONSTRUCTED AND BOULEVARD ARE SODDED OR BACKYARDS ARE GRADED AND SODDED. SEDIMENTS TO BE REMOVED AND FILTER CLOTHS REPLACED AS NECESSARY.

WATER NOTES:

- ALL WATERMAIN INSTALLATION SHALL CONFORM TO THE LATEST REVISIONS OF THE ONTARIO PROVINCIAL STANDARD DRAWINGS (OPSD) AND SPECIFICATIONS (OPSS) AS AMENDED BY THE REGION OF HALTON.
- WATERMAIN MATERIAL AND FITTINGS ARE TO BE PVC PRESSURE CLASS 235 SDR-18 AS PER AWWA C900, C905, & C907.
- A SOLID 10 GAUGE TWL COPPER WIRE SHALL BE INSTALLED THROUGH THE METALLIC PIPE, STRAPPED TO THE PIPE AT 6 m INTERVALS. THE TRACER WIRE SHALL BE INSTALLED BETWEEN EACH VALVE AND/OR THE END OF THE NEW WATERMAIN. JOINTS IN THE TRACER WIRE BETWEEN VALVES ARE NOT PERMITTED. 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.
- ALL WATER SERVICES ARE TO BE 25mm DIA. TYPE K SOFT COPPER FOR RESIDENTIAL DWELLINGS AND 25mm DIA. TYPE K SOFT COPPER FOR INDUSTRIAL AND COMMERCIAL PREMISES AS PER OPSP 1104.010 AND 1104.020 UNLESS OTHERWISE SPECIFIED. WATER SERVICES SHALL BE MARKED WITH A "2x4", EXTENDING FROM THE INVERT TO 1.0 m ABOVE GRADE PAINTED BLUE. ALL WATER SERVICES SHALL BE PROVIDED WITH A MAIN STOP, CURB STOP AND SERVICE BOX AT THE PROPERTY LINE. VALVE BOX STEM EXTENSION RODS ARE TO BE USED ON WATER SERVICES UP TO AND INCLUDING 32 mm.
- THE CONTRACTOR SHALL PROVIDE ALL TEMPORARY CAPS, PLUGS AND BLOW-OFFS REQUIRED FOR TESTING THE WATERMAIN.
- MINIMUM ALLOWABLE PIPE JOINT DEFLECTION OF THE WATERMAIN SHALL BE 50% OF THE MANUFACTURER'S SPECIFICATIONS. PIPE BARREL DEFLECTION IS STRICTLY PROHIBITED.
- CORROSION PROTECTION IS REQUIRED FOR ALL METALLIC PIPE, VALVES, FITTINGS, SERVICES AND HYDRANTS. CATHODIC PROTECTION (ZINC ANODE) AS PER REGIONAL DESIGN STANDARDS AND SPECIFICATIONS.
- VALVE CHAMBER FRAMES AND COVERS TO BE AS PER REGION OF HALTON STANDARD DRAWING RH 405.010. ALL VALVES ARE TO BE CI EPOXY COATED.
- WATERMAIN BEDDING SHALL BE IN ACCORDANCE WITH OPSP 402.010 OR 402.014 UNLESS OTHERWISE SPECIFIED. BEDDING AND COVER MATERIAL SHALL BE SPECIFIED BY PROJECT GEOTECHNICAL ENGINEER TO THE SATISFACTION OF THE REGION OF HALTON, AS A MINIMUM REQUIREMENT WATERMAIN SHALL BE LAID ON 150mm OF GRANULAR "A" bedding and conform to OPSS MUNI 401.
- APPROVED BACKFILL MATERIAL SHALL BE PLACED IN ACCORDANCE WITH OPSP 401, 515, AND 516. BACKFILL SHALL BE 100% SPMD BENEATH ROADS, SIDEWALKS, CURBS OR 95% SPMD ELSWHERE AND CONFORM TO OPSS MUNI 401 GRANULAR "B" TYPE I OR II OR APPROVED SELECT NATIVE. LOOSE MATERIAL SHALL BE COMPACTED TO 95% SPMD BEFORE SUBSEQUENT LAYER ARE PLACED. COMPACTION SOIL DENSITY TESTING SHALL BE CARRIED OUT TO ENSURE ADEQUATE COMPACTION AND STABILITY OF FILL AND TEST RESULTS SHALL BE SUBMITTED TO THE TOWN AND REGION OF HALTON.
- WATERMAIN AND WATER SERVICES INSTALLED WITHIN 2.5 m FROM A CATCHBASIN OR MANHOLE SHALL BE INSULATED TO THE SATISFACTION OF THE REGION OF HALTON.
- WATERMAIN WATER SERVICES SHALL BE INSTALLED WITH A MINIMUM DEPTH OF COVER OF 1.7 METERS.
- WATERMANS SHALL BE LAID WITH AT LEAST 2.5m HORIZONTAL SEPARATION FROM ANY SEWERS OR SEWER MANHOLES. UNDER UNUSUAL CONDITIONS, WHERE CONGESTION WITH OTHER UTILITIES WILL PREVENT A CLEAR HORIZONTAL SEPARATION OF 2.5m, A WATERMAIN MAY BE Laid CLOSER TO A SEWER PROVIDED THAT THE VERTICAL SEPARATION OF THE SEWER IS AT LEAST 0.5m BELOW THE WATERMAIN. ALL DISTANCES SHALL BE MEASURED FROM THE NEAREST EDGES OR OUTSIDE SURFACES, WHERE NEITHER HORIZONTAL OR VERTICAL CLEARANCE CAN BE PHYSICALLY ACHIEVED, WHERE APPLICABLE, THE SEWER MAIN SHALL BE CONSTRUCTED WITH JOINTS THAT ARE EQUIVALENT TO WATERMAIN STANDARDS OF CONSTRUCTION.
- MINIMUM SEPARATION/CLEARANCE SHALL BE 150mm, WHERE WATERMANS CROSS OVER MAINLINE SEWERS AND LATERALS AND 500mm WHERE THE WATERMAIN CROSSES UNDER. (THE DISTANCE SHALL BE MEASURED FROM THE NEAREST EDGES OR OUTSIDE SURFACES), IF THE MINIMUM COVER OF THE WATERMAIN OR WATER SERVICE CONNECTION CANNOT BE OBTAINED AS A RESULT OF THE WATERMAIN OR WATER SERVICE CONNECTION CROSSING ABOVE THE SEWER, THE WATERMAIN OR WATER SERVICE CONNECTION SHALL BE CONSTRUCTED UNDER THE SEWER OR INSULATED FOR ITS ENTIRE LENGTH USING PIPE-INSULATED PIPE UNTIL THE MINIMUM DEPTH (1.7m) IS OBTAINED. WHEN CROSSING OVER A STORM SEWER THE STORM SEWER MUST ALSO BE INSULATED WITH MINIMUM 100mm EXTRUDED FOAM (H 100) INSULATION, REFER TO HALTON REGION STANDARD DRAWING RH 408.010 & 408.011.
- ALL SERVICES TAPPING TO EXISTING MAINS ARE TO BE DONE BY REGIONAL FORCES. CONNECTIONS ARE NOT TO BE MADE TO THE EXISTING MAIN UNTIL THE NEW MAIN IS COMPLETED, TESTED, SWABBED AND DISINFECTED.
- NO WATERMAIN OR APPURTENANCE SHALL BE PLACED ON PREVIOUSLY EXCAVATED SOIL UNLESS PROPER ENGINEERED SUPPORT IS IN PLACE TO THE SATISFACTION OF THE REGION AND THE PROJECT GEOTECHNICAL ENGINEER.
- REGIONAL MUNICIPALITY OF HALTON APPROVED MECHANICAL RESTRAINT JOINTS ARE TO BE USED ON ALL BENDS, ALL PIPES AND FITTINGS IN FILL SECTIONS, ALL VALVE CHAMBERS, AND ALL PLUGS, CAPS, HYDRANTS, TEES, BRANCH CONNECTIONS, LINE VALVES AND HORIZONTAL BENDS WHERE DISTURBED SOIL IS ENCOUNTERED.
- MINIMUM COVER OVER HYDRANT LATERAL SHALL BE 1.7m. IF A HYDRANT MAIN VALVE SEAT EXCEEDS 1.7m, A SUITABLE HYDRANT BOTTOM EXTENSION MUST BE USED AND PLACED BETWEEN BOOT AND HYDRANT BARREL - REFER TO HALTON REGION STANDARD DRAWING RH 407.010
- IF HYDRANT BARREL DEPTH EXCEEDS 1.7m, A HYDRANT THAT CAN BE RAISED FROM THE BOTTOM WITHOUT INCREASING ROD LENGTH IS TO BE USED.

STORM PUMPER CONNECTIONS:

- TWO (2) @ 63.5 mm (2 1/2") WITH CSA STANDARD THREAD, 63.5 mm I.D., 79.4 mm O.D., 5 THREADS PER 25 mm, 31.75 mm SQUARE OPERATING NUT; AND
- ONE (1) 100 mm (4") STORM PUMPER CONNECTION AS PER CAN/ULC #5-520, 31.75 mm SQUARE OPERATING NUT, AND STORZ CAP PAINTED GLOSS BLACK

- HYDRANTS SHALL BE MANUFACTURED IN ACCORDANCE WITH AWWA STANDARD AND SHALL CONFORM TO THE REGIONAL STANDARD SPECIFICATIONS. ALL HYDRANTS SHALL BE INSTALLED AS PER OPSP 1105.010, AS AMENDED BY THE REGION OF HALTON STANDARD DRAWING RH 407.010.
- FIRE HYDRANTS SHALL BE INSTALLED WITH FLANGE SET BETWEEN 0 mm AND 50 mm ABOVE FINISHED GRADE. ALL HYDRANTS LATERALS SHALL HAVE A 150 mm SECONDARY VALVE, VALVE BOX AND ANCHOR TEE.
- MINIMUM SEPARATION DISTANCE FROM THE EDGE OF DRIVEWAY TO THE FACE OF THE FIRE HYDRANT SHALL BE 1.0m.
- VALVE CHAMBER SHALL BE PRECAST CONCRETE CHAMBER AS PER REGION STD. RH.402.010, RH.402.020 OR RH.402.040. THREE VALVES ARE REQUIRED AT A TEE INTERSECTION AND FOUR VALVES ARE REQUIRED AT A CROSS INTERSECTION UNLESS OTHERWISE NOTED.
- LINE VALVES SHALL BE THE SAME SIZE AS WATERMAIN COMPLETED WITH VALVE BOX AND EXTENSION.
- RESILIENT SEAT GATE VALVES CONFORMING TO AWWA C509 OR C515 (LATEST REVISION) MAY BE USED FOR WATERMANS 400mm DIA. AND SMALLER. RESILIENT SEAT GATE VALVES CONFORMING TO AWWA C515 (LATEST REVISION) SHALL BE USED FOR WATERMANS LARGER THAN 400mm
- CATCH BASIN LEADS TO BE INSTALLED WITH MINIMUM 0.15m CLEARANCE WHERE CROSSING UNDER WATERMAIN.
- WATERMANS WILL BE SUBJECT TO PRESSURE TESTING AND FIRE FLOW TESTING AS DIRECTED BY HALTON REGION.
- AN INSPECTOR FROM THE REGION OF HALTON MUST BE PRESENT ON SITE DURING ANY LIVE-TAP WATER SERVICE CONNECTIONS.

EROSION AND SEDIMENT CONTROL NOTES:

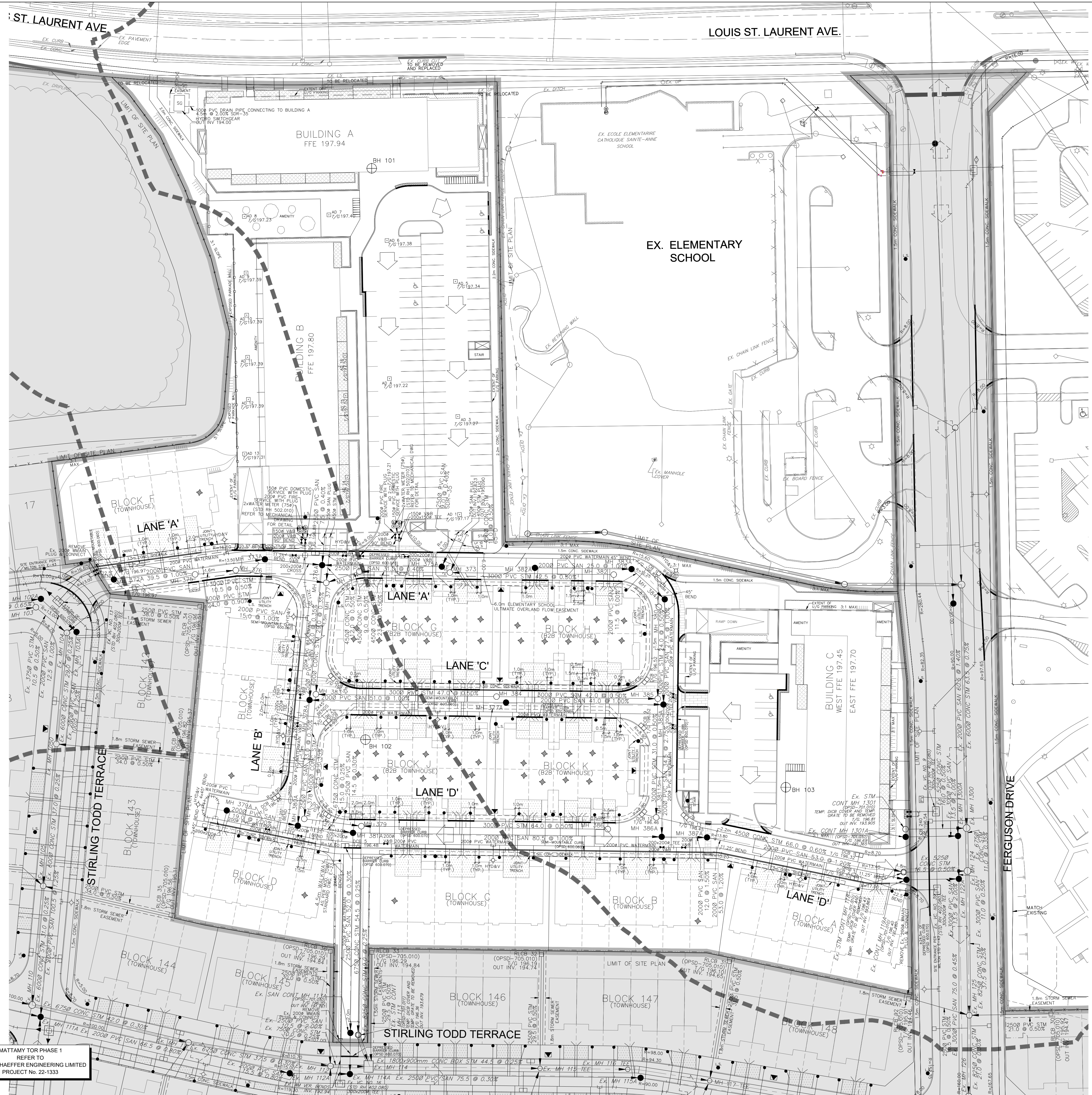
- EROSION AND SEDIMENT CONTROLS ARE REQUIRED IN ACCORDANCE WITH THE TOWN OF MILTON BY-LAW 33-2004, AS AMENDED. GRADING IS PROHIBITED UNTIL THE ABOVE BY-LAW IS SATISFIED.
- REFER TO SITUATION CONTROL DRAWINGS FOR REQUIREMENTS.
- PRIOR TO TOPSOIL STRIPPING, EARTHWORKS, OR UNDERGROUND CONSTRUCTION, EROSION AND SEDIMENT CONTROLS SHALL BE IMPLEMENTED TO THE SATISFACTION OF THE AUTHORITY HAVING JURISDICTION.
- SEDIMENT CONTROL PONDS TO BE CONSTRUCTED UNDER THE SUPERVISION OF THE PROJECT GEOTECHNICAL ENGINEER. ALL BERM MATERIAL TO BE APPROVED BY PROJECT GEOTECHNICAL ENGINEER PRIOR TO PLACEMENT. THE CONTRACTOR SHALL MAINTAIN ALL WORKS UNTIL SERVICING CONSTRUCTION IS COMPLETED TO THE SATISFACTION OF THE ENGINEER AND THE TOWN OF MILTON.
- SEDIMENT CONTROL FENCE SHALL BE CLEANED AND MAINTAINED THROUGHOUT CONSTRUCTION.
- SEDIMENT CONTROL FENCE TO REMAIN IN PLACE UNTIL THE WORKING AREA HAS BEEN STABILIZED AND VEGETATED.
- ACCUMULATED SEDIMENT TO BE REMOVED OFF SITE PRIOR TO THE REMOVAL OF SEDIMENT CONTROL FENCE.
- CONTRACTOR TO INSTALL MUD MAT AT THE CONSTRUCTION ACCESS IN ORDER TO PREVENT THE TRACKING OF MUD ONTO THE ADJACENT ROADS IN ACCORDANCE WITH THE TOWN OF MILTON BY-LAW 035-2020. MUD MAT TO BE A MINIMUM OF 30m LONG, 5m WIDE AND SHALL CONSIST OF 0.45m OF 50mm CLEAR STONE FOR FIRST 15m WITH REMAINING 15m CONSISTING OF 0.30m OF 150mm RIF RAP.
- IN ACCORDANCE WITH THE TOWN OF MILTON BY-LAW 035-2020, THE CONTRACTOR SHALL CLEAN THE ADJACENT ROADS ON A REGULAR BASIS TO THE SATISFACTION OF THE AUTHORITY HAVING JURISDICTION AND/OR IMMEDIATELY UPON NOTIFICATION BY THE AUTHORITY HAVING JURISDICTION.
- FILTER FABRIC TO BE PLACED IN ALL STREET AND REAR LOT CATCHBASINS. THESE SILT TRAPS ARE TO BE CLEANED REGULARLY AND INSPECTED AFTER EACH RAINFALL 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. SEDIMENT TO BE REMOVED AND FILTER CLOTH REPLACED AS NECESSARY.
- SEDIMENT CONTROL PONDS TO BE CLEANED WHEN THEY BECOME HALF FULL OF SEDIMENT.
- ALL DISTURBED GROUND OR TOPSOIL STOCKPILE LEFT INACTIVE FOR MORE THAN 30 DAYS SHALL BE STABILIZED BY SEEDING, SODDING, MULCHING OR COVERING, OR OTHER EQUIVALENT CONTROL MEASURE, UNLESS OTHERWISE AUTHORIZED BY THE TOWN OF MILTON.
- ALL EROSION AND SEDIMENT CONTROL DEVICES ARE TO BE INSPECTED BY THE CONSULTING ENGINEER EVERY ONE WEEK AND AFTER EACH RAINFALL OF 1 cm OR GREATER TO ENSURE THAT THEY ARE IN PROPER WORKING CONDITION.

SANITARY NOTES:

- ALL SANITARY SEWER INSTALLATION SHALL CONFORM TO THE LATEST REVISIONS OF THE ONTARIO PROVINCIAL STANDARD DRAWINGS (OPSD) AND SPECIFICATIONS (OPSS) AS AMENDED BY THE REGION OF HALTON.
- UNLESS OTHERWISE SPECIFIED, ALL SANITARY MAINLINE SEWERS ARE TO BE PVC DR 35 APPROVED AS PER CSA 182.2, OPSS 1841 OR LATEST AMENDMENT.
- FOR SANITARY LATERALS, A 2.0R MINIMUM GRADE IS TO BE PROVIDED. THE COVER AT THE PROPERTY LINE SHALL BE 2.95m, WHERE THIS IS NOT ACHIEVABLE, THE SANITARY LATERAL SHALL BE INSTALLED AT THE MINIMUM 2.0R GRADE FROM THE SEWER TO THE PROPERTY LINE. THE COVER SHALL BE GREATER THAN 2.95m AT THE PROPERTY LINE.
- ALL SANITARY LATERALS ARE TO BE PVC DR28, GREEN IN COLOUR, AND MARKED WITH A "2x4", EXTENDING FROM THE INVERT TO 1.0 m ABOVE GRADE PAINTED GREEN. SINGLE CONNECTIONS FOR RESIDENTIAL UNITS ARE 125 mm DIA. ALL RESIDENTIAL SANITARY CONNECTIONS SHOULD BE EXTENDED 1.5m INTO LOTS/BLOCKS HORIZONTALLY.
- SANITARY MANHOLE FRAME AND COVERS TO BE AS PER OPSP 401.010 TYPE "A" WITH "SAN" CAST IN.
- ALL SANITARY MANHOLES ARE TO BE WATER TIGHT. WATERPROOFING SHALL BE INSTALLED AROUND ALL EXTERIOR SECTION JOINTS, AND THE WATERPROOF MEMBRANE SHALL EXTEND COMPLETELY AROUND ALL JOINTS WITH A MINIMUM 300 mm WIDE STRIP CENTERED ON THE JOINT.
- DROP STRUCTURES SHALL BE PROVIDED WHERE THE DIFFERENCE IN ELEVATION IS GREATER THAN 1.2m IN ACCORDANCE WITH OPSP 1003.020.
- SANITARY SEWER MANHOLES SHALL BE BENECHED TO THE PIPE OBVERT, OTHERWISE IN ACCORDANCE WITH OPSP 701.021.
- BEDDING MATERIAL FOR PVC SANITARY PIPE SHOULD BE IN ACCORDANCE WITH OPSP-802.010, TYPE 1 OR 2 SOILS, GRANULAR "A" OR EQUIVALENT; FOR CONCRETE SANITARY PIPE, OPSP-802.030, CLASS "B", GRANULAR "A" OR EQUIVALENT, WITH GRANULAR "A" COVER FOR BEDDING MATERIAL IN SHALE EXCAVATION, REFER TO GEOTECHNICAL REPORT FOR RECOMMENDATIONS, WHERE WATER-BEARING SILTS AND SANDS ARE PRESENT, THE PIPE JOINTS SHOULD BE LEAK-PROOF, OR WRAPPED WITH AN APPROPRIATE WATERPROOF MEMBRANE.
- THE SANITARY SEWER CLASSES HAVE BEEN DESIGNED BASED ON BEDDING CONDITIONS SPECIFIED. ADDITIONAL BEDDING, A DIFFERENT TYPE OF BEDDING OR A HIGHER PIPE STRENGTH MAY BE REQUIRED (AT THE CONTRACTORS OWN EXPENSE) WHERE THE SPECIFIED TRENCH WIDTH IS EXCEEDED. ADDITIONALLY THE CONTRACTOR SHALL BE REQUIRED TO PROVIDE AND BE RESPONSIBLE FOR EXTRA TEMPORARY AND/OR PERMANENT REPAIRS MADE NECESSARY BY THE WIDENED TRENCH.
- APPROVED BACKFILL MATERIAL SHALL BE PLACED IN ACCORDANCE WITH OPSS 514, 515, AND 516. COMPACTION SOIL DENSITY TESTING SHALL BE CARRIED OUT TO ENSURE ADEQUATE COMPACTION AND STABILITY OF FILL AND TEST RESULTS SHALL BE SUBMITTED TO TOWN OF MILTON AND THE REGION OF HALTON.
- CONNECTION RISERS ARE REQUIRED WHERE THE SEWER MAIN IS 4.5m DEEP.

RE: PROPOSED U/G SERVICES

PROPOSED UNDERGROUND SERVICES WITHIN EXISTING ROW TO BE CONSTRUCTED AS PER THE FOLLOWING:



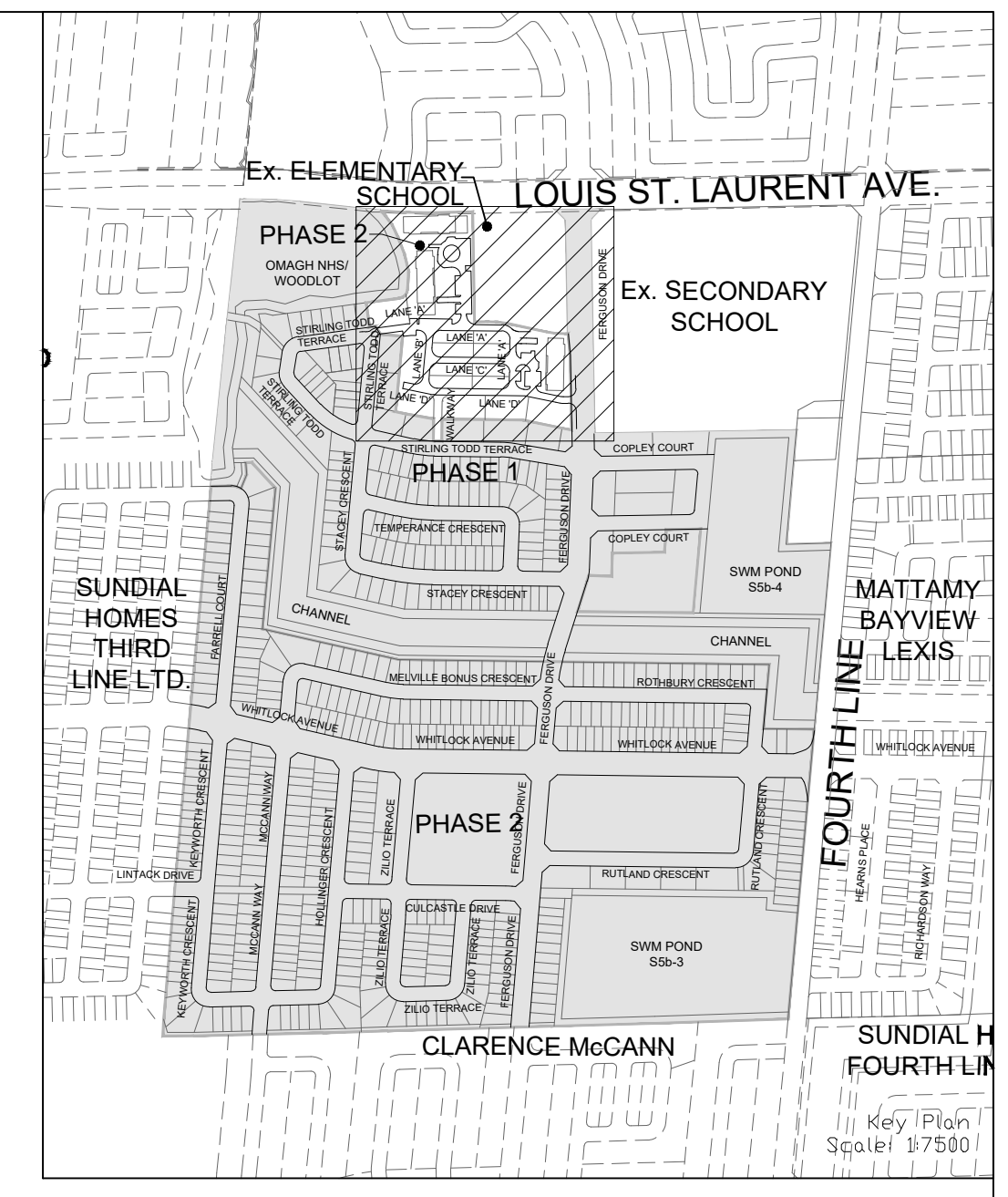
MATTAMY TOR PHASE 1
REFER TO
DAVID SCHAEFFER ENGINEERING LIMITED
PROJECT No. 22-1533

NOTES:

- ALL EXISTING BUILDINGS, POST & WIRE FENCE, TREES, UTILITY POLES, CULVERTS AND RETAINING WALLS, ETC. WITHIN LOTS AND BLOCKS TO BE REMOVED, UNLESS OTHERWISE NOTED.
- EXISTING MH AND CB COVERS, WATER V&Bs, WATER V&Cs AND UTILITY FEDESTALS ETC. TO BE ADJUSTED WITHIN NEW ROADWAYS AND BOULEVARDS, WHERE APPLICABLE.
- CONTRACTOR TO VERIFY THE PRECISE LOCATIONS AND INVERT ELEVATIONS OF EX. UNDERGROUND SERVICES AND EX. UTILITIES PRIOR TO STARTING CONSTRUCTION.
- ANY DISTURBED AREA DURING CONSTRUCTION TO BE RESTORED TO THE ORIGINAL CONDITION OR BETTER TO THE SATISFACTION OF THE AUTHORITIES HAVING JURISDICTION.
- WRITTEN PERMISSION REQUIRED FOR WORK ON ADJACENT LANDS.
- SERVING AND GRADING DESIGN FOR FUTURE LOTS LANDS SHOWN ON THE DRAWINGS ARE CONCEPTUAL, WHICH ARE TO BE FURTHER REVIEWED / FINALIZED UPON FUTURE DEVELOPMENT.
- SUMP PUMPS SHALL BE PROVIDED IN ACCORDANCE WITH SECTION 1.1.27.1, STD DWG. E-25, TO THE SATISFACTION OF THE TOWN OF MILTON, UNLESS OTHERWISE SPECIFIED.
- THE LOCATIONS OF ANTI-SEEPAGE COLLARS SHALL BE DETERMINED BY THE PROJECT GEOTECHNICAL ENGINEER DURING SEWER CONSTRUCTION ON THE SITE.
- EXISTING WATERMAIN STUBS WILL REQUIRE SWAGING, FLUSHING, AND SAMPLING WORK TO BE COMPLETED BY REGION OF HALTON STAFF AT THE DEVELOPER'S EXPENSE.
- INSULATION REQUIRED FOR WATERMAIN/WATER SERVICE WHERE THE SEPARATION BETWEEN WATERMAIN/WATER SERVICE AND OTHER SERVICES AND STRUCTURES IS LESS THAN 1.2m AND/OR THE COVER IS LESS THAN 1.7m (SEE REGION STANDARD RH 408.010).
- ALL VALVES TO BE CAST IRON EPOXY COATED.
- BARRICADES AND SIGNAGE TO BE REMOVED ONLY AFTER WRITTEN DIRECTION IS PROVIDED BY THE TOWN OF MILTON ENGINEERING DEPARTMENT.
- ALL FILL SHALL BE COMPACTED TO 95% STANDARD PROCTOR DENSITY. FIELD COMPACTION TESTING SHALL BE UNDERTAKEN TO THE SATISFACTION OF THE DIRECTOR, DEVELOPMENT ENGINEERING.

LEGEND

- STORM MANHOLE
- CATCHBASIN MANHOLE
- SANITARY MANHOLE
- SANITARY MANHOLE BY OTHERS
- PAIRED SINGLE SANITARY HOUSE CONNECTION
- SINGLE SANITARY HOUSE CONNECTION
- SINGLE STORM HOUSE CONNECTION
- DOUBLE STORM HOUSE CONNECTION
- WATER CONNECTION
- JOINT UTILITY TRENCH
- HYDRANT
- TEE
- VALVE & BOX
- VALVE & CHAMBER
- L.S. LIGHT STANDARD
- STREETLIGHT PEDESTAL
- HYDRO TRANSFORMER
- SINGLE/DOUBLE CATCHBASIN
- SUMP PUMP TO DISCHARGE TO STORM CONNECTION
- TACTILE PLATES
- BORHOLE
- OVERLAND FLOW DIRECTION
- EXTERNAL OVERLAND FLOW DIRECTION
- CURB WITH DEPRESSED SECTION
- DEPRESSED BARRIER CURB (OPSD 600.070)
- SEMI-MOUNTABLE CURB (OPSD 600.060)
- 1.5m HIGH CHAIN LINK FENCE (TOWN STD. NO. E27)
- 1.8m PRIVACY FENCE (TOWN STD. NO. E28)
- CH APPROX. REGULATION LIMIT
- PHASE LINE
- OTHER PHASES



NOT FOR CONSTRUCTION

TOPOGRAPHIC INFORMATION
TOPOGRAPHIC INFORMATION PROVIDED BY R-PE SURVEYING LTD., REFERENCE No. 22-049, CAD FILE No.22049tp05, SURVEY RECEIVED FEBRUARY 16, 2023.

LEGAL INFORMATION
SITE PLAN PROVIDED BY KNYMH INC., PROJECT NUMBER 21407, FOR GARITO BARBUTO TOR PH 2 BLOCK 458, RECEIVED SEPTEMBER 11, 2024.

BENCHMARK (MINISTRY OF TRANSPORTATION)
No. 00819828155 ELEVATION = 185.351m

No.	DATE	DESCRIPTION	APPROVED
2	24-10-07	C.J.M. 2nd SUBMISSION	
1	24-04-05	C.J.M. 1st SUBMISSION	

SCALE:	1:500	0	5	10	15	20
APPROVALS	FIELD NOTES					
MUNICIPAL APPROVAL	BELL <input type="checkbox"/> HYDRO <input type="checkbox"/>					
DEVELOPMENT SERVICES	GAS <input type="checkbox"/> CABLE <input type="checkbox"/>					
	TRAFFIC <input type="checkbox"/> WATER <input type="checkbox"/>					
	STAMP					
REGIONAL APPROVAL	DESIGN OF SANITARY, WATER SERVICES AND REGIONAL ROAD WORKS APPROVED SUBJECT TO DETAIL CONSTRUCTION CONFORMING TO HALTON REGION STANDARDS & SPECIFICATIONS & LOCAL APPROVAL FROM AREA MUNICIPALITY					
LEGISLATIVE AND PLANNING SERVICES	DATE					

DSEL 600 Alden Road, Suite 606
Markham, Ontario, L3R 0E7
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Fax: (905) 475-3081
www.DSEL.ca

MILTON TOWN OF MILTON DEVELOPMENT SERVICES
TOWN OF MILTON FILE No: XXXXXXX

Halton The Regional Municipality of Halton
REGION OF HALTON FILE No: XXXXXXX

DEVELOPER: **MATTAMY (BROWNIDGE) LIMITED**

DEVELOPMENT MANAGER: **mattamy HOMES** PROJECT: **TOR SUBNODE SITEPLAN**

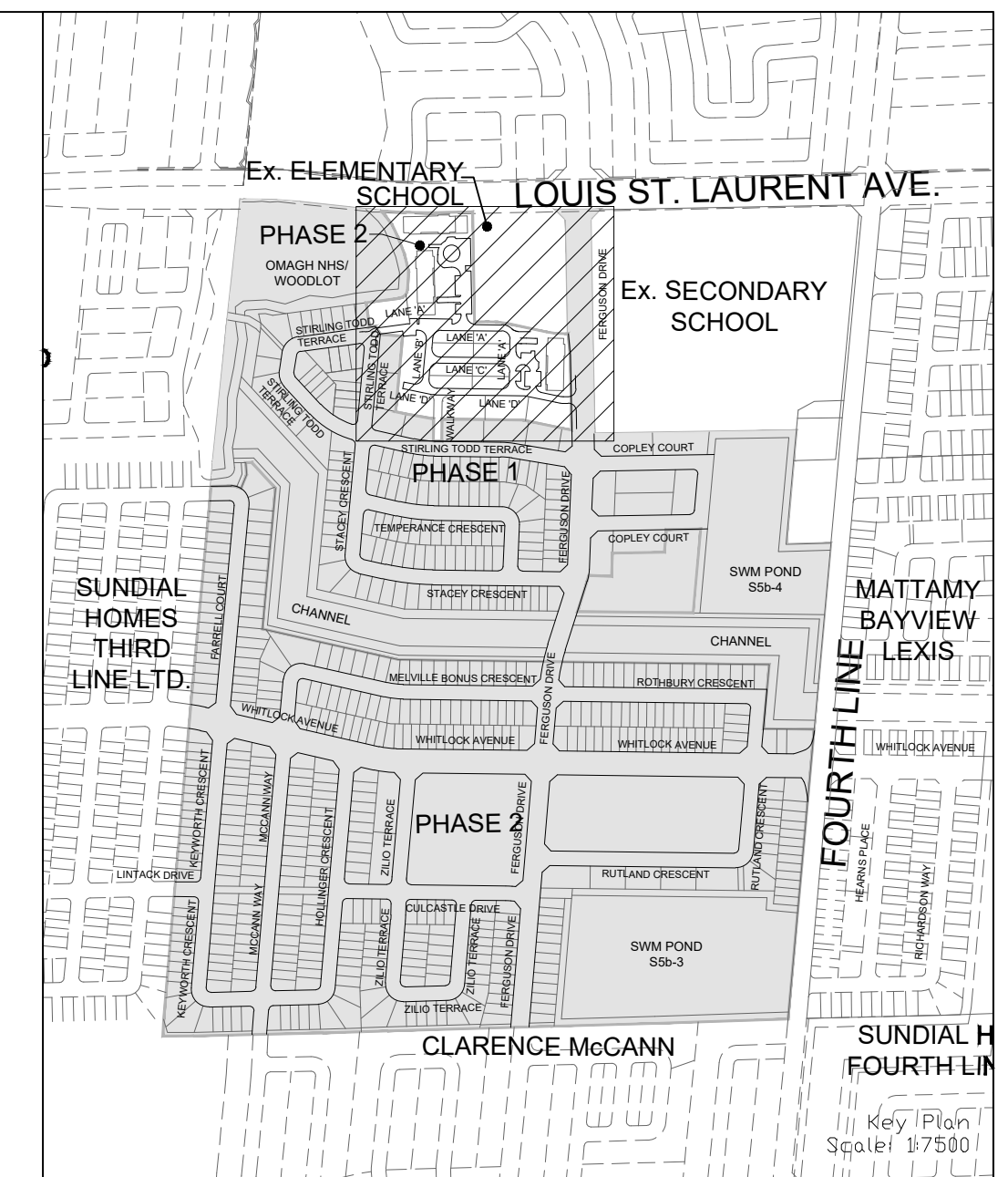
TITLE: **SITE SERVICING PLAN** © DSEL

DRAWN BY: H.P.	CHECKED BY: E.G.
DESIGNED BY: H.C.	CHECKED BY: C.J.M.
PROJECT NO. 24-1377	SHEET 2 OF 18



- NOTES:**
1. ALL EXISTING BUILDINGS, POST & WIRE FENCE, TREES, UTILITY POLES, CULVERTS AND RETAINING WALLS, ETC. WITHIN LOTS AND BLOCKS TO BE REMOVED, UNLESS OTHERWISE NOTED.
 2. EXISTING MH AND CB COVERS, WATER V&Bs, WATER V&Cs AND UTILITY PEDESTALS ETC. TO BE ADJUSTED WITHIN NEW ROADWAYS AND BOULEVARDS, WHERE APPLICABLE.
 3. CONTRACTOR TO VERIFY THE PRECISE LOCATIONS AND INVERT ELEVATIONS OF EX. UNDERGROUND SERVICES AND EX. UTILITIES PRIOR TO STARTING CONSTRUCTION.
 4. ANY DISTURBED AREA DURING CONSTRUCTION TO BE RESTORED TO THE ORIGINAL CONDITION OR BETTER TO THE SATISFACTION OF THE AUTHORITIES HAVING JURISDICTION.
 5. WRITTEN PERMISSION REQUIRED FOR WORK ON ADJACENT LANDS.
 6. WORKS WITHIN THE CH REGULATION LIMIT WILL REQUIRE A PERMIT FROM CONSERVATION HALTON UNDER ONTARIO REGULATION 162/06.
 7. SERVICES AND GRADING DESIGN FOR FUTURE LOTS LANDS SHOWN ON THE DRAWINGS ARE CONCEPTUAL, WHICH ARE TO BE FURTHER REVIEWED/FINALIZED UPON FUTURE DEVELOPMENT.
 8. BARRICADES AND SIGNAGE TO BE REMOVED ONLY AFTER WRITTEN DIRECTION IS PROVIDED BY THE TOWN OF MILTON ENGINEERING DEPARTMENT.
 9. ALL FILL SHALL BE COMPACTED TO 95% STANDARD PROCTOR DENSITY AND COMPACTION TESTING SHALL BE UNDERTAKEN TO THE SATISFACTION OF THE DIRECTOR, DEVELOPMENT ENGINEERING.

- LEGEND**
- PROPOSED ELEVATION
 - EXISTING ELEVATION
 - EXISTING CONTOUR ELEVATION
 - FUTURE ELEVATION
 - SPECIFIED HOUSE GRADE
 - FRONT/REAR HOUSE GRADE
 - UNDERSIDE OF FOOTING
 - SPLIT DRAINING LOT (TYPE A) (TOWN STD. NO. E20)
 - PROPOSED OVERLAND FLOW
 - EXTERNAL OVERLAND FLOW
 - STORM MANHOLE
 - CATCHBASIN MANHOLE
 - SANITARY MANHOLE
 - SANITARY MANHOLE BY OTHERS
 - SINGLE/REARLOT CATCHBASIN
 - DOUBLE CATCHBASIN
 - HYDRANT
 - VALVE & CHAMBER
 - HYDRO TRANSFORMER
 - L.S. LIGHT STANDARD
 - STREETLIGHT PEDESTAL
 - SUMP PUMP TO DISCHARGE TO STORM CONNECTION
 - E.F. ENGINEERED FILL (REFER TO DWG. NO.1)
 - TACTILE PLATES
 - 3:1 MAXIMUM SLOPE
 - CURB WITH DEPRESSED SECTION
 - DEPRESSED BARRIER CURB (OPSD 600.070)
 - SEMI-MOUNTABLE CURB (OPSD 600.060)
 - 1.5m HIGH CHAIN LINK FENCE (TOWN STD. NO. E27)
 - 1.8m PRIVACY FENCE (TOWN STD. NO. E28)
 - CH APPROX. REGULATION LIMIT
 - STATIC PONDING AREA
 - PHASE LINE
 - OTHER PHASES



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 No. 00819828155 ELEVATION = 185.351m

No.	DATE	BY	DESCRIPTION	APPROVED
2	24-10-07	C.J.M.	2nd SUBMISSION	
1	24-04-05	C.J.M.	1st SUBMISSION	

SCALE:	1:500	REFERENCES
APPROVALS		
MUNICIPAL APPROVAL		FIELD NOTES
DEVELOPMENT SERVICES	DATE	BELL <input type="checkbox"/> HYDRO <input type="checkbox"/>
REGIONAL APPROVAL		GAS <input type="checkbox"/> CABLE <input type="checkbox"/>
LEGISLATIVE AND PLANNING SERVICES	DATE	TRAFFIC <input type="checkbox"/> WATER <input type="checkbox"/>
		STAMP

DSEL
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 Fax: (905) 475-3081
 www.DSEL.ca

MILTON TOWN OF MILTON DEVELOPMENT SERVICES
 TOWN OF MILTON FILE NO: XXXXXXX

Halton REGION The Regional Municipality of Halton
 REGION OF HALTON FILE NO: XXXXXXX

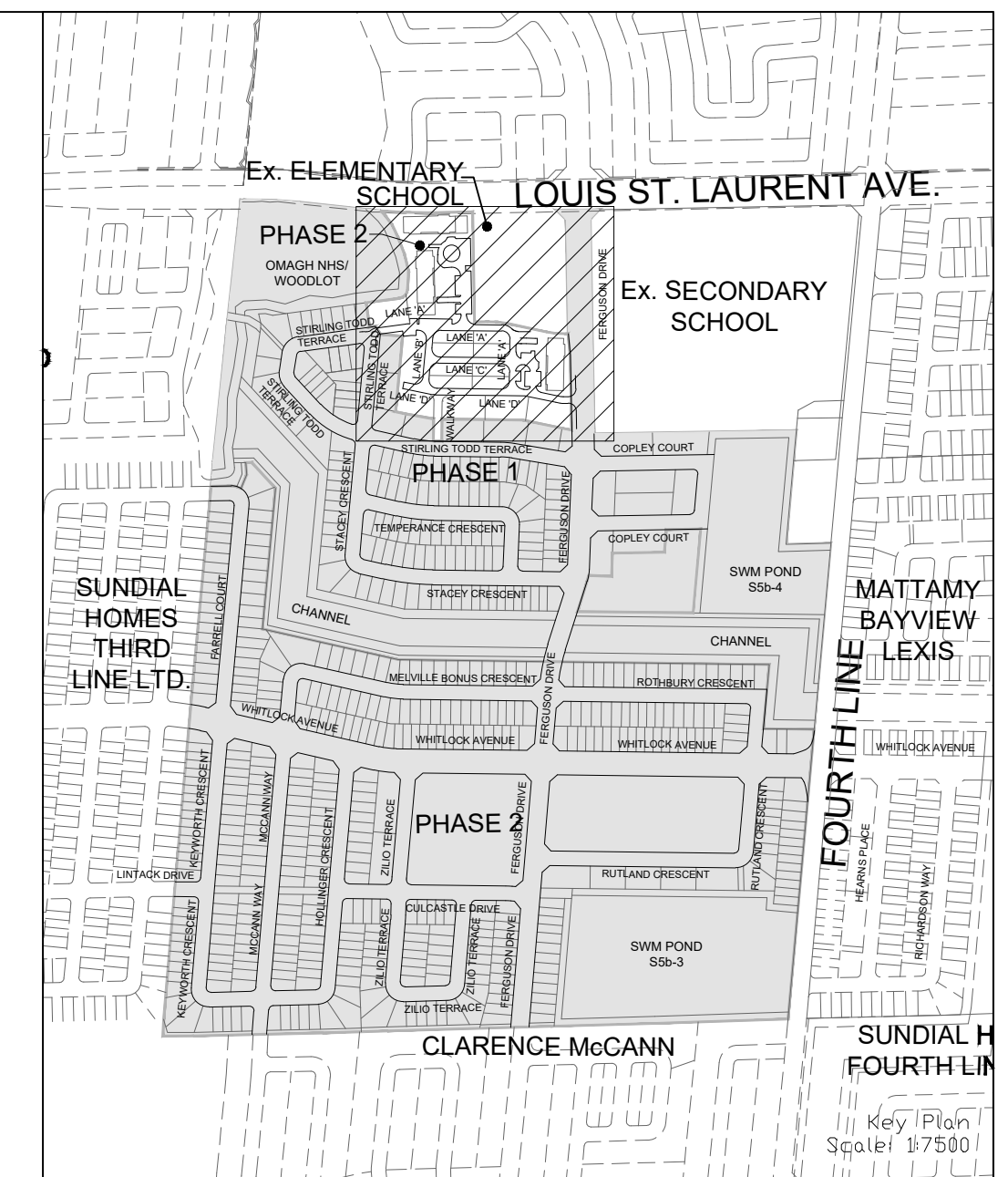
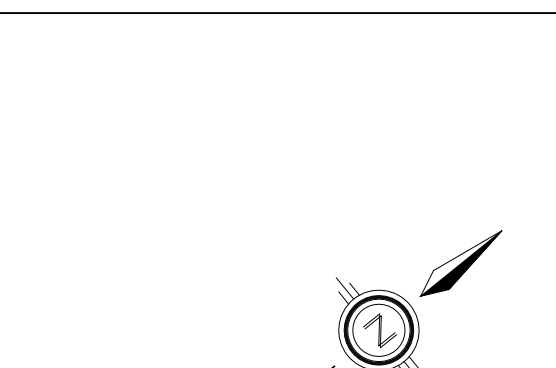
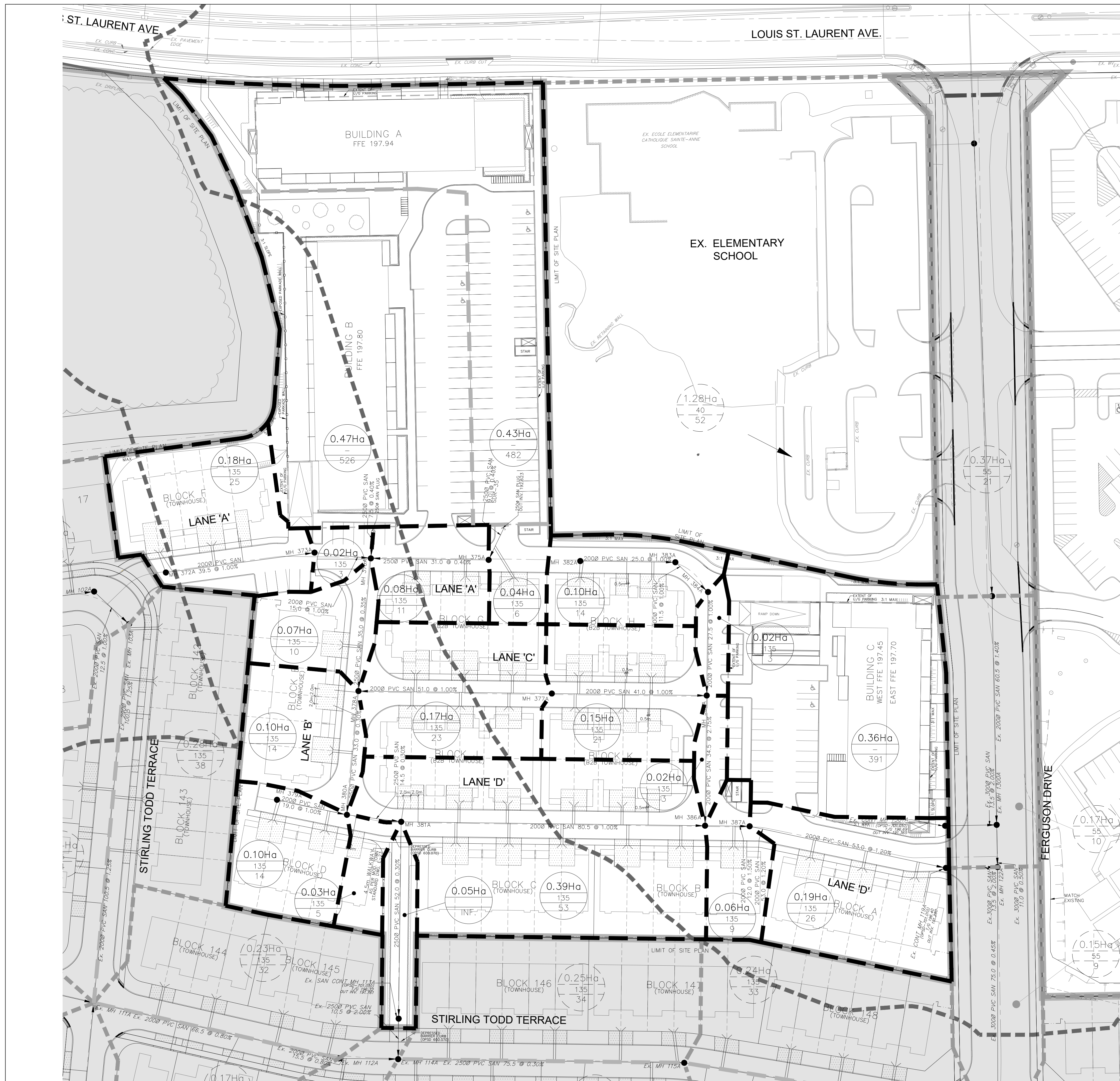
DEVELOPER
MATTAMY (BROWNIDGE) LIMITED

DEVELOPMENT MANAGER

PROJECT
TOR SUBNODE SITEPLAN

TITLE
GRADING PLAN © DSEL

DRAWN BY: H.P. **CHECKED BY:** E.G.
DESIGNED BY: H.C. **CHECKED BY:** C.J.M.
PROJECT NO. 24-1377 **SHEET 3 OF 18**



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LEGAL INFORMATION
 SITE PLAN PROVIDED BY KNYMH INC., PROJECT NUMBER 21407,
 FOR GARITO BARBUTO TOR PH 2 BLOCK 45B, RECEIVED SEPTEMBER 11, 2024.

BENCHMARK (MINISTRY OF TRANSPORTATION)
 No. 00819828155 ELEVATION = 185.351m

No.	DATE	BY	DESCRIPTION	APPROVED
2	24-10-07	C.J.M.	2nd SUBMISSION	
1	24-04-05	C.J.M.	1st SUBMISSION	

SCALE:	1:500	0	5	10	15	20
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APPROVALS	FIELD NOTES
MUNICIPAL APPROVAL	BELL <input type="checkbox"/> HYDRO <input type="checkbox"/>
DEVELOPMENT SERVICES	GAS <input type="checkbox"/> CABLE <input type="checkbox"/>
	TRAFFIC <input type="checkbox"/> WATER <input type="checkbox"/>
REGIONAL APPROVAL	STAMP

LEGISLATIVE AND PLANNING SERVICES	DATE	600 Alden Road, Suite 606 Markham, Ontario, L3R 0E7 Tel: (905) 475-3080 Fax: (905) 475-3081 www.DSEL.ca
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	TOWN OF MILTON DEVELOPMENT SERVICES	TOWN OF MILTON FILE No: XXXXXXX
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	The Regional Municipality of Halton	REGION OF HALTON FILE No: XXXXXXX
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DEVELOPER	MATTAMY (BROWNBRIDGE) LIMITED
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DEVELOPMENT MANAGER		PROJECT	TOR SUBNODE SITEPLAN
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TITLE	SANITARY DRAINAGE PLAN	© DSEL
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DRAWN BY: H.P.	CHECKED BY: E.G.
DESIGNED BY: H.C.	CHECKED BY: C.J.M.
PROJECT NO. 24-1377	SHEET 4 OF 18

LEGEND

- 0.82Ha
135
111
AREA IN HECTARES
POPULATION DENSITY (PERSONS PER HECTARE)
POPULATION
- 1.09Ha
135
148
AREA IN HECTARES (EXTERNAL)
POPULATION DENSITY (PERSONS PER HECTARE)
POPULATION
- DIRECTION OF FLOW
- SANITARY MANHOLE
- SANITARY MANHOLE BY OTHERS
- PAIRED SINGLE SANITARY HOUSE CONNECTION
- SANITARY SINGLE HOUSE CONNECTION
- SANITARY SEWER TRIBUTARY BOUNDARY
- SANITARY TRIBUTARY SUB-CATCHMENT BOUNDARY
- EXTERNAL SANITARY SEWER TRIBUTARY BOUNDARY
- OTHER PHASES

DAVID SCHAEFFER ENGINEERING LTD.
 600 ALDEN ROAD, SUITE 606
 MARKHAM, ONTARIO
 L3R 0E7
 TEL: (905) 475-3080
 FAX: (905) 475-3081

THE REGIONAL MUNICIPALITY OF HALTON

SANITARY SEWER DESIGN

Single Family: 55 pph
 Semi-detached: 400 pph
 Townhouse: 135 pph
 Commercial: 90 pph
 Community Services: 40 pph
 School: 40 pph
 Infil Flow (INF): 0.28 L/s/ha

SHEET No.: 1 OF 1
 LOCATION: TOR PH2 - SUBNODE
 PROJECT No.: 24-1377
 DATE: 25 Mar 2024
 DESIGNED BY: H.C.
 CHECKED BY: C.J.M.

Note: To be conservative, industrial Kavis considered to be 1

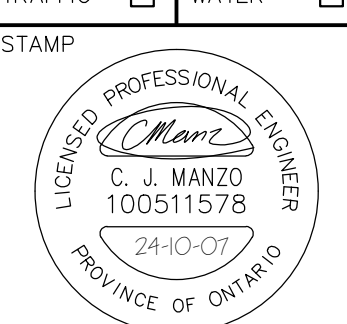




n (PVC): 0.013
 n (Conc): 0.013

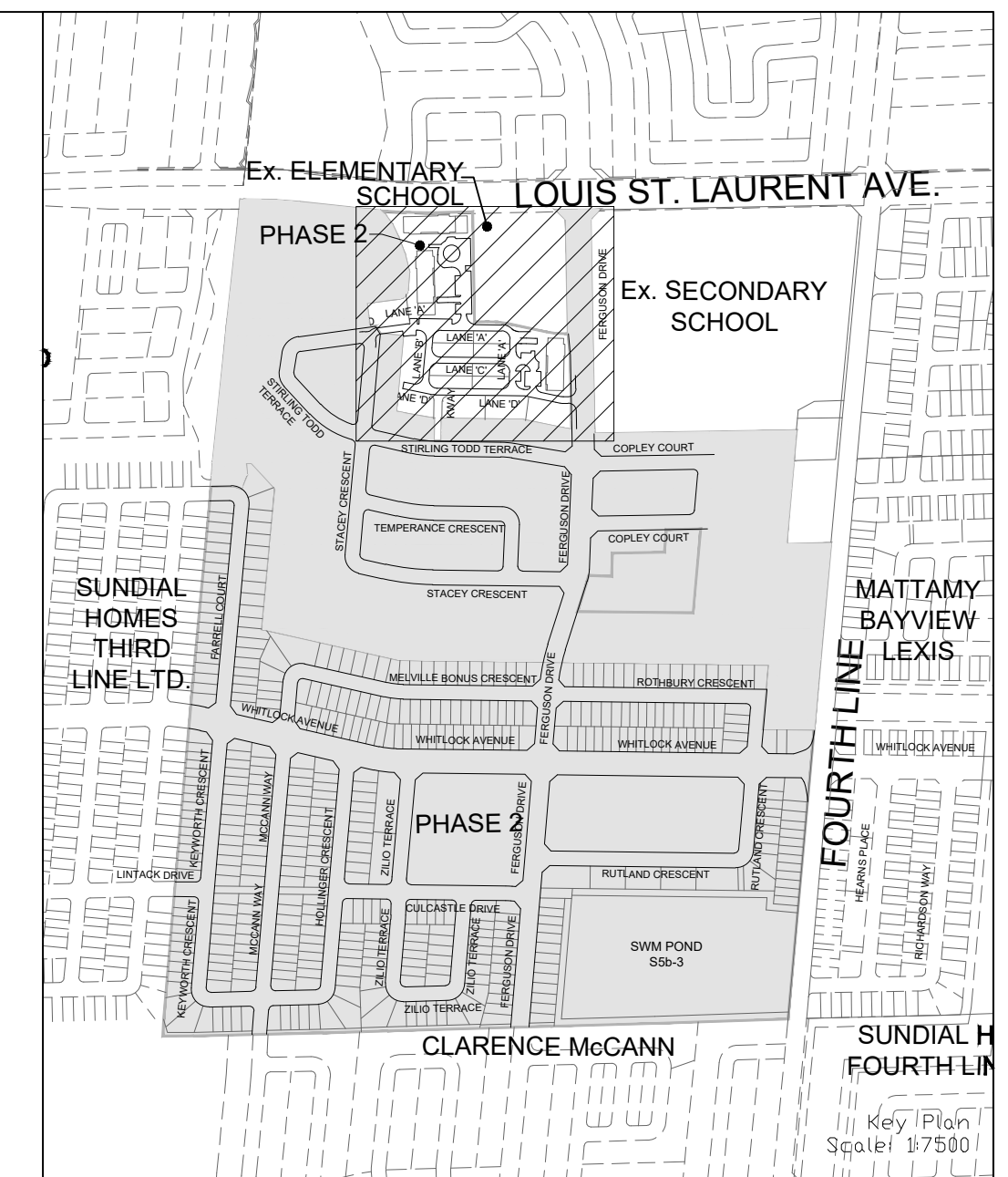
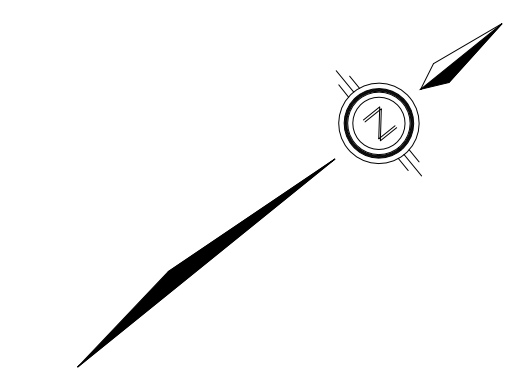
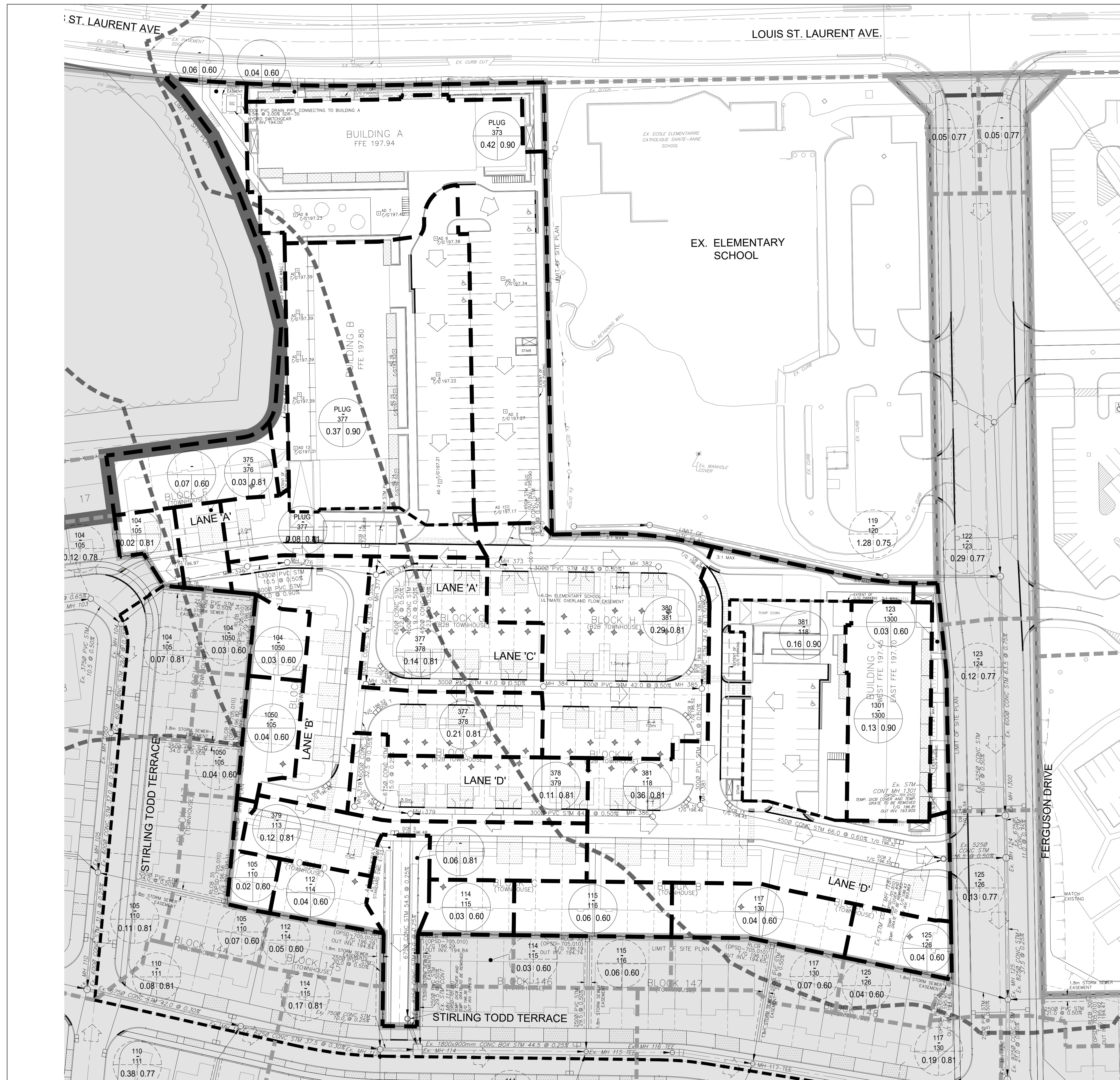
STREET	MANHOLE		LENGTH (m)	TRIBUTARY AREA HECTARE					TOTAL	POPULATION TRIBUTARY					TOTAL	AVG L/s INC.	AVG L/s TOTAL	PEAKING FACTOR	MAX L/s	INF. L/s	MAX FLOW EXP.	SEWER		PIPE		REMARKS				
	FROM	TO		INCREMENT	INCREMENT	INCREMENT	INCREMENT	INCREMENT		INCREMENT	INCREMENT	INCREMENT	INCREMENT	INCREMENT								INCREMENT	INCREMENT	INCREMENT	INCREMENT		INCREMENT	INCREMENT	INCREMENT	INCREMENT
LANE 'B'	PLUG	376A	7.50			0.47							526		526	1.67	1.67	3.96	6.63	0.13	6.76	250	0.40	37.61	0.77	0.58	PVC	SDR-35	0.18	
													0.20		28															
													0.55		499															
	376A	378A	35.00			0.07							10		1063	0.03	3.38	3.78	12.79	0.36	13.15	250	0.35	35.18	0.72	0.66	PVC	SDR-35	0.37	
													0.17		23															
	378A	380A	33.00			0.10							14		1100	0.04	3.50	3.77	13.20	0.44	13.64	250	0.30	32.57	0.66	0.63	PVC	SDR-35	0.42	
													1.56		1100															
WALKWAY																														
													1.69		1119															
	381A	Ex. CTRL 113A	52.00					0.05					1119	0.00	3.56	3.75	13.36	0.49	13.84	250	0.30	32.57	0.66	0.64	PVC	SDR-35	0.43			
		Ex. CTRL 113A	10.50										1119	0.00	3.56	3.75	13.36	0.49	13.84	250	2.00	84.10	1.71	1.25	PVC	SDR-35	0.16			
													1.74		1119															
													1.74		1119															
													1.74		1119															
LANE 'C'	377A	378A	51.00			0.17							23		23	0.07	0.07	4.00	0.29	0.05	0.34	200	1.00	32.80	1.04	0.33	PVC	SDR-35	0.01	
													0.17		23															
	377A	385A	41.00			0.15							21		21	0.07	0.07	4.00	0.27	0.04	0.31	200	1.00	32.80	1.04	0.32	PVC	SDR-35	0.01	
													0.15		21															
													0.15		21															
LANE 'A'	372A	373A	39.50			0.18							25		25	0.08	0.08	4.00	0.32	0.05	0.37	200	1.00	32.80	1.04	0.33	PVC	SDR-35	0.01	
	373A	376A	15.00			0.02							3		28	0.01	0.09	4.00	0.36	0.06	0.41	200	1.00	32.80	1.04	0.35	PVC	SDR-35	0.01	
													0.20		28															
													0.04		6															
	PLUG	375A	9.00			0.43							482	1.53	1.55	3.98	6.18	0.13	6.31	250	0.40	37.61	0.77	0.57	PVC	SDR-35	0.17			
	375A	376A	31.00			0.08							11	0.04	1.59	3.97	6.31	0.15	6.46	250	0.40	37.61	0.77	0.57	PVC	SDR-35	0.17			
													0.55		499															
													0.55		499															
	382A	383A	25.00			0.10							14	0.04	0.04	4.00	0.18	0.03	0.21	200	1.00	32.80	1.04	0.29	PVC	SDR-35	0.01			
	383A	384A	11.50										14	0.00	0.04	4.00	0.18	0.03	0.21	200	1.00	32.80	1.04	0.29	PVC	SDR-35	0.01			
	384A	385A	27.50			0.02							3	0.01	0.05	4.00	0.22	0.03	0.25	200	1.00	32.80	1.04	0.30	PVC	SDR-35	0.01			
													0.15		21															
													0.29		41	0.01	0.13	4.00	0.52	0.08	0.60	200	2.75	54.39	1.73	0.55	PVC	SDR-35	0.01	
													0.29		41															
LANE 'D'	379A	380A	19.00			0.10							14	0.04	0.04	4.00	0.18	0.03	0.21	200	1.00	32.80	1.04	0.29	PVC	SDR-35	0.01			
													1.56		1100															
	380A	381A	14.50			0.03							5	0.02	3.56	3.77	13.43	0.47	13.90	250	0.30	32.57	0.66	0.64	PVC	SDR-35	0.43			
													1.69		1119															
													1.69		1119															
	381A	386A	80.50			0.39							53	0.17	0.17	4.00	0.67	0.11	0.78	200	1.00	32.80	1.04	0.43	PVC	SDR-35	0.02			
													0.29		41															
													0.74		103	0.03	0.33	4.00	1.31	0.21	1.52	200	1.50	40.17	1.28	0.60	PVC	SDR-35	0.04	
	387A	Ex. CTRL 119A	53.00			0.19							26	0.08	0.41	4.00	1.64	0.26	1.90	200	1.20	35.93	1.14	0.60	PVC	SDR-35	0.05			
													0.93		129	0.00	0.41	4.00	1.64	0.26	1.90	300	2.00	136.76	1.93	0.67	PVC	SDR-35	0.01	
													0.93		129															
													0.93		129															

NOT FOR CONSTRUCTION

TOPOGRAPHIC INFORMATION
 TOPOGRAPHIC INFORMATION PROVIDED BY R-PE SURVEYING LTD.,
 REFERENCE No. 22-049, CAD FILE No.22049tp05, SURVEY
 RECEIVED FEBRUARY 16, 2023.

LEGAL INFORMATION
 SITE PLAN PROVIDED BY KNYMH INC., PROJECT NUMBER 21407,
 FOR GARITO BARBUTO TOR PH 2 BLOCK 45B, RECEIVED SEPTEMBER 11, 2024.
 BENCHMARK (MINISTRY OF TRANSPORTATION)
 No. 00819828155 ELEVATION = 185.351m

2. 24-10-07 C.J.M. 2nd SUBMISSION		
1. 24-04-05 C.J.M. 1st SUBMISSION		
No. DATE BY DESCRIPTION		APPROVED
SCALE: NTS	REFERENCES	
APPROVALS		FIELD NOTES
MUNICIPAL APPROVAL	BELL <input type="checkbox"/> HYDRO <input type="checkbox"/>	
DEVELOPMENT SERVICES	GAS <input type="checkbox"/> CABLE <input type="checkbox"/>	
	TRAFFIC <input type="checkbox"/> WATER <input type="checkbox"/>	
REGIONAL APPROVAL		
LEGISLATIVE AND PLANNING SERVICES	DATE	
		
		
		
DEVELOPER: MATTAMY (BROWNRIDGE) LIMITED		
DEVELOPMENT MANAGER		PROJECT
		TOR SUBNODE SITEPLAN
TITLE: SANITARY DESIGN SHEETS © DSEL		
DRAWN BY: H.P.	CHECKED BY: E.G.	
DESIGNED BY: H.C.	CHECKED BY: C.J.M.	
PROJECT NO. 24-1377	SHEET 5 OF 18	



NOT FOR CONSTRUCTION

TOPOGRAPHIC INFORMATION
 TOPOGRAPHIC INFORMATION PROVIDED BY R-PE SURVEYING LTD.,
 REFERENCE No. 22-049, CAD FILE No.22049tp05, SURVEY
 RECEIVED FEBRUARY 16, 2023.

LEGAL INFORMATION
 SITE PLAN PROVIDED BY KNYMH INC., PROJECT NUMBER 21407,
 FOR GARITO BARBUTO TOR PH 2 BLOCK 458, RECEIVED SEPTEMBER 11, 2024.

BENCHMARK (MINISTRY OF TRANSPORTATION)
 No. 00819828155 ELEVATION = 185.351m

No.	DATE	BY	DESCRIPTION	APPROVED
2	24-10-07	C.J.M.	2nd SUBMISSION	
1	24-04-05	C.J.M.	1st SUBMISSION	

SCALE: 1:500	REFERENCES
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APPROVALS	FIELD NOTES
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MUNICIPAL APPROVAL	BELL	HYDRO
DEVELOPMENT SERVICES	GAS	CABLE
	TRAFFIC	WATER

REGIONAL APPROVAL
 DESIGN OF SANITARY, WATER SERVICES AND REGIONAL ROAD
 WORKS APPROVED SUBJECT TO DETAIL CONSTRUCTION CONFORMING
 TO HALTON REGION STANDARDS & SPECIFICATIONS & LOCATIONAL
 APPROVAL FROM AREA MUNICIPALITY



DSEL 600 Alden Road, Suite 606
 Markham, Ontario, L3R 0E7
 Tel: (905) 475-3080
 Fax: (905) 475-3081
 www.DSEL.ca

MILTON TOWN OF MILTON DEVELOPMENT SERVICES TOWN OF MILTON FILE No: XXXXXXX

Halton The Regional Municipality of Halton REGION OF HALTON FILE No: XXXXXXX

DEVELOPER: **MATTAMY (BROWNIDGE) LIMITED**

DEVELOPMENT MANAGER: **mattamy HOMES** PROJECT: **TOR SUBNODE SITEPLAN**

TITLE: **STORM DRAINAGE PLAN** © DSEL

LEGEND

- MH 303, MH 304: UPSTREAM MH TO DOWNSTREAM MH
- 0.06, 0.75: RUN-OFF COEFFICIENT
- 0.06, 0.75: DRAINAGE AREA IN HECTARES
- UPSMH, DWSM: UPSTREAM MH TO DOWNSTREAM MH
- 0.10, 0.50: RUN-OFF COEFFICIENT
- 0.10, 0.50: DRAINAGE AREA IN HECTARES (EXTERNAL)
- External flow direction symbols
- External overland flow direction symbols
- Single/double catchbasin symbols
- Sump pump to discharge to storm connection symbols
- Storm sewer tributary boundary symbols
- Storm tributary sub-catchment boundary symbols
- External storm tributary boundary symbols
- Other phases symbol

LOCATION			CONTRIBUTING AREA				FLOW			SEWER DESIGN										
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)	(18)	(19)	(20)	(21)
STREET	FROM MANHOLE	TO MANHOLE	AREA "A" (ha)	STORM COEFFICIENT "C"	SECTION A/C	ACCUMULATE A/C	HYDRATIONAL INTENSITY "I" (mm/hr)	FLOW Q (L/s)	LENGTH (m)	SLOPE (%)	DIAMETER (mm)	FULL FLOW CAPACITY (L/s)	FULL FLOW VELOCITY (m/s)	TIME OF FLOW IN PIPE (min)	TIME OF CONCENTRATION (min)	FALL IN PIPE SECTION (m)	MANHOLE INLET INVERT (m)	MANHOLE LOSSES (m)	MANHOLE OUTLET INVERT (m)	PIPE % CAPACITY
LANE 'B'				0.08	0.81	0.06									10.00					
		PLUG		0.37	0.90	0.33								10.00						
		377					105.37	116	12.0	0.50	450	202	1.27	0.16	10.16					58%
Contribution From LANE 'A', Pipe 374 - 377															11.05					
Contribution From LANE 'A', Pipe 376 - 377															10.41					
		377		0.14	0.81	0.11									10.00					
Contribution From LANE 'C', Pipe 384 - 383							100.05	254	29.0	0.35	600	363	1.28	0.38	11.42					70%
To LANE 'D', Pipe 378 - 379															10.69					
		383		0.21	0.81	0.17	98.28	296	32.5	0.35	600	363	1.28	0.42	11.84					81%
WALKWAY																				
Contribution From LANE 'D', Pipe 378 - 379															12.06					
Contribution From LANE 'D', Pipe 386 - 379															10.93					
		379	Ex. CTRL 113	0.12	0.81	0.10									10.00					
To STIRLING TODD TERRACE (PHASE 1), Pipe Ex 114 - Ex 115 TEE							95.46	347	54.5	0.25	675	420	1.17	0.77	12.83					83%
		Ex. CTRL 113	Ex. 114	0.06	0.81	0.05	92.25	348	9.0	0.25	825	848	1.59	0.09	12.93					
LANE 'C'																				
To LANE 'A', Pipe 385 - 381															10.61					0%
		384	385				105.37	0	42.0	0.50	300	81	1.14	0.61	10.61					
To LANE 'B', Pipe 383 - 378															10.00					
		384	383				105.37	0	47.0	0.50	300	81	1.14	0.69	10.69					0%

NOTES:
 Q = 2.78AC I L/s Initial time of concentration = 10 min.
 C = Runoff Co-efficient
 I = Intensity (mm/hr)
 A = Area (hectares)
 n = 0.013 (conc.) for sewers =>525mm

PROJECT: TOR PH2-SUBNODE
 PROJECT NO: 24-1377
 CONSULTANT: DAVID SCHAEFFER ENGINEERING LTD.

DESIGNED BY: H.C.
 CHECKED BY: C.J.M.
 DATE: 09 Sep 2024
TOWN OF MILTON
 STORM SEWER DESIGN
 SHEET 1 OF 3

LOCATION			CONTRIBUTING AREA				FLOW			SEWER DESIGN										
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)	(18)	(19)	(20)	(21)
STREET	FROM MANHOLE	TO MANHOLE	AREA "A" (ha)	STORM COEFFICIENT "C"	SECTION A/C	ACCUMULATE A/C	HYDRATIONAL INTENSITY "I" (mm/hr)	FLOW Q (L/s)	LENGTH (m)	SLOPE (%)	DIAMETER (mm)	FULL FLOW CAPACITY (L/s)	FULL FLOW VELOCITY (m/s)	TIME OF FLOW IN PIPE (min)	TIME OF CONCENTRATION (min)	FALL IN PIPE SECTION (m)	MANHOLE INLET INVERT (m)	MANHOLE LOSSES (m)	MANHOLE OUTLET INVERT (m)	PIPE % CAPACITY
LANE 'A'																				
		375	376												10.37					9%
To LANE 'B', Pipe 377 - 383															10.45					7%
		376	377												10.41					
Contribution From LANE 'C', Pipe 384 - 385															10.00					
		380	385												10.37					82%
To LANE 'D', Pipe 381 - 118															10.23					
		385	381												102.18					80%
Contribution From LANE 'D', Pipe 382 - 373															10.37					0%
		382	373												105.37					0%
To LANE 'B', Pipe 377 - 383															105.37					55%
		PLUG													111					53%
		373	374												102.15					52%
		374	377												100.62					52%
LANE 'D'																				
To WALKWAY, Pipe 379 - 113															105.37					0%
		386	379												0.00					
Contribution From LANE 'A', Pipe 385 - 381															0.23					
		381	Ex. CTRL 118												0.36					
															0.16					
															0.90					
															0.14					
															0.06					
															99.97					83%

NOTES:
 Q = 2.78AC I L/s Initial time of concentration = 10 min.
 C = Runoff Co-efficient
 I = Intensity (mm/hr)
 A = Area (hectares)
 n = (conc.) for sewers =>525mm

PROJECT: TOR PH2-SUBNODE
 PROJECT NO: 24-1377
 CONSULTANT: DAVID SCHAEFFER ENGINEERING LTD.

DESIGNED BY: H.C.
 CHECKED BY: C.J.M.
 DATE: 09 Sep 2024
TOWN OF MILTON
 STORM SEWER DESIGN
 SHEET 2 OF 3

LOCATION			CONTRIBUTING AREA				FLOW			SEWER DESIGN										
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)	(18)	(19)	(20)	(21)
STREET	FROM MANHOLE	TO MANHOLE	AREA "A" (ha)	STORM COEFFICIENT "C"	SECTION A/C	ACCUMULATE A/C	HYDRATIONAL INTENSITY "I" (mm/hr)	FLOW Q (L/s)	LENGTH (m)	SLOPE (%)	DIAMETER (mm)	FULL FLOW CAPACITY (L/s)	FULL FLOW VELOCITY (m/s)	TIME OF FLOW IN PIPE (min)	TIME OF CONCENTRATION (min)	FALL IN PIPE SECTION (m)	MANHOLE INLET INVERT (m)	MANHOLE LOSSES (m)	MANHOLE OUTLET INVERT (m)	PIPE % CAPACITY
To FERGUSON DRIVE (PHASE 1), Pipe Ex 124 - Ex 125																				
		Ex. CTRL 118	Ex. 124												0.00					58%
Contribution From LANE 'B', Pipe 383 - 378															1.08					
		378	379												1.21					
To WALKWAY, Pipe 379 - 113															1.21					77%

NOTES:
 Q = 2.78AC I L/s Initial time of concentration = 10 min.
 C = Runoff Co-efficient
 I = Intensity (mm/hr)
 A = Area (hectares)
 n = (conc.) for sewers =>525mm

PROJECT: TOR PH2-SUBNODE
 PROJECT NO: 24-1377
 CONSULTANT: DAVID SCHAEFFER ENGINEERING LTD.

DESIGNED BY: H.C.
 CHECKED BY: C.J.M.
 DATE: 09 Sep 2024
TOWN OF MILTON
 STORM SEWER DESIGN
 SHEET 3 OF 3

NOT FOR CONSTRUCTION

TOPOGRAPHIC INFORMATION
 TOPOGRAPHIC INFORMATION PROVIDED BY R-PE SURVEYING LTD.,
 REFERENCE No. 22-049, CAD FILE No.22049tp05, SURVEY
 RECEIVED FEBRUARY 16, 2023.

LEGAL INFORMATION
 SITE PLAN PROVIDED BY KNYMH INC., PROJECT NUMBER 21407,
 FOR GARITO BARBUTO TOR PH 2 BLOCK 458, RECEIVED SEPTEMBER 11, 2024.

BENCHMARK (MINISTRY OF TRANSPORTATION)
 No. 00819828155 ELEVATION = 185.351m

2. 24-10-07	C.J.M.	2nd SUBMISSION	
1. 24-04-05	C.J.M.	1st SUBMISSION	
No.	DATE	BY	DESCRIPTION
			APPROVED

SCALE: NTS	REFERENCES
APPROVALS	
MUNICIPAL APPROVAL	BELL <input type="checkbox"/> HYDRO <input type="checkbox"/>
DEVELOPMENT SERVICES	GAS <input type="checkbox"/> CABLE <input type="checkbox"/>
	TRAFFIC <input type="checkbox"/> WATER <input type="checkbox"/>
REGIONAL APPROVAL	STAMP
DESIGN OF SANITARY, WATER SERVICES AND REGIONAL ROAD WORKS APPROVED SUBJECT TO DETAIL CONSTRUCTION CONFORMING TO HALTON REGION STANDARDS & SPECIFICATIONS & LOCAL APPROVAL FROM AREA MUNICIPALITY	
LEGISLATIVE AND PLANNING SERVICES	DATE

DSEL 600 Alden Road, Suite 606
 Markham, Ontario, L3R 0E7
 Tel: (905) 475-3080
 Fax: (905) 475-3981
 www.DSEL.ca

MILTON TOWN OF MILTON
 DEVELOPMENT SERVICES FILE No: XXXXXXX

Halton The Regional Municipality of Halton REGION OF HALTON FILE No: XXXXXXX

DEVELOPER: **MATTAMY (BROWNBRIDGE) LIMITED**

DEVELOPMENT MANAGER: **mattamy HOMES** PROJECT: **TOR SUBNODE SITEPLAN**

TITLE: **STORM DESIGN SHEETS** © DSEL

DRAWN BY: H.P. CHECKED BY: E.G.
 DESIGNED BY: H.C. CHECKED BY: C.J.M.
 PROJECT NO: **24-1377** SHEET **7** OF **18**

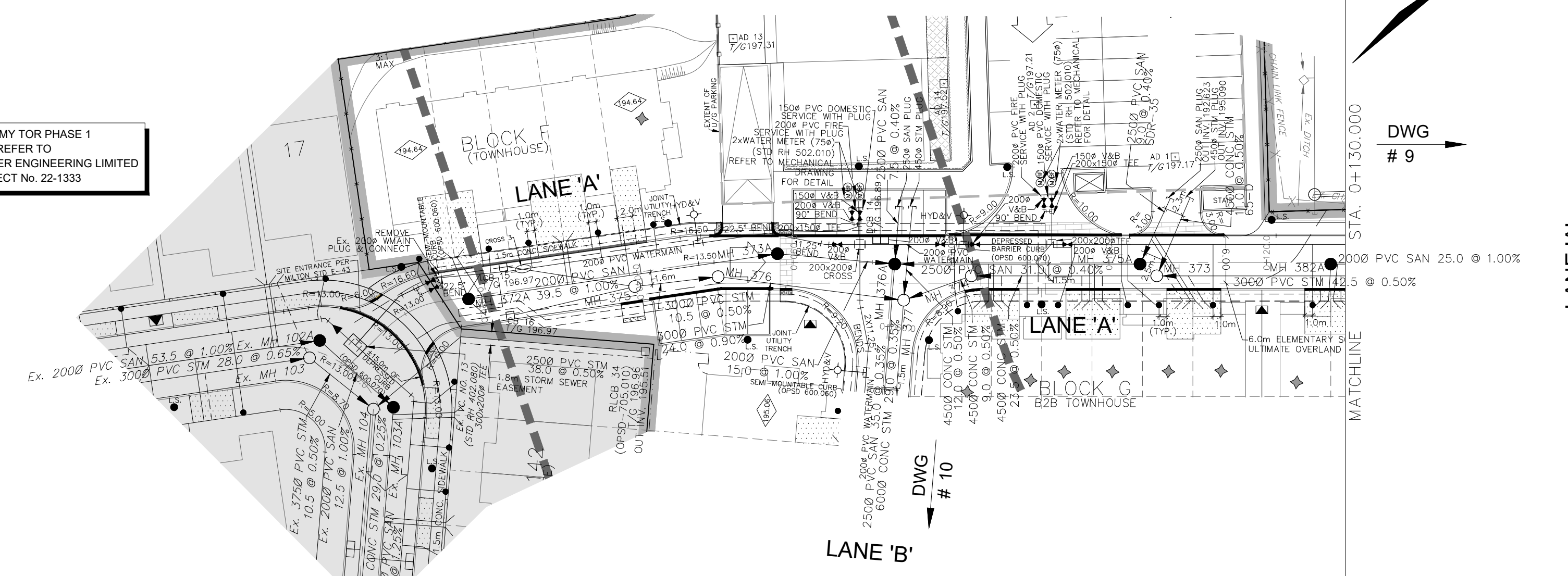
PAVEMENT DESIGN

- 40mm HL-3
- 50mm HL-8
- 150mm OF 19mm LIMESTONE
- 300mm GRANULAR "B", TYPE II

NOTES:

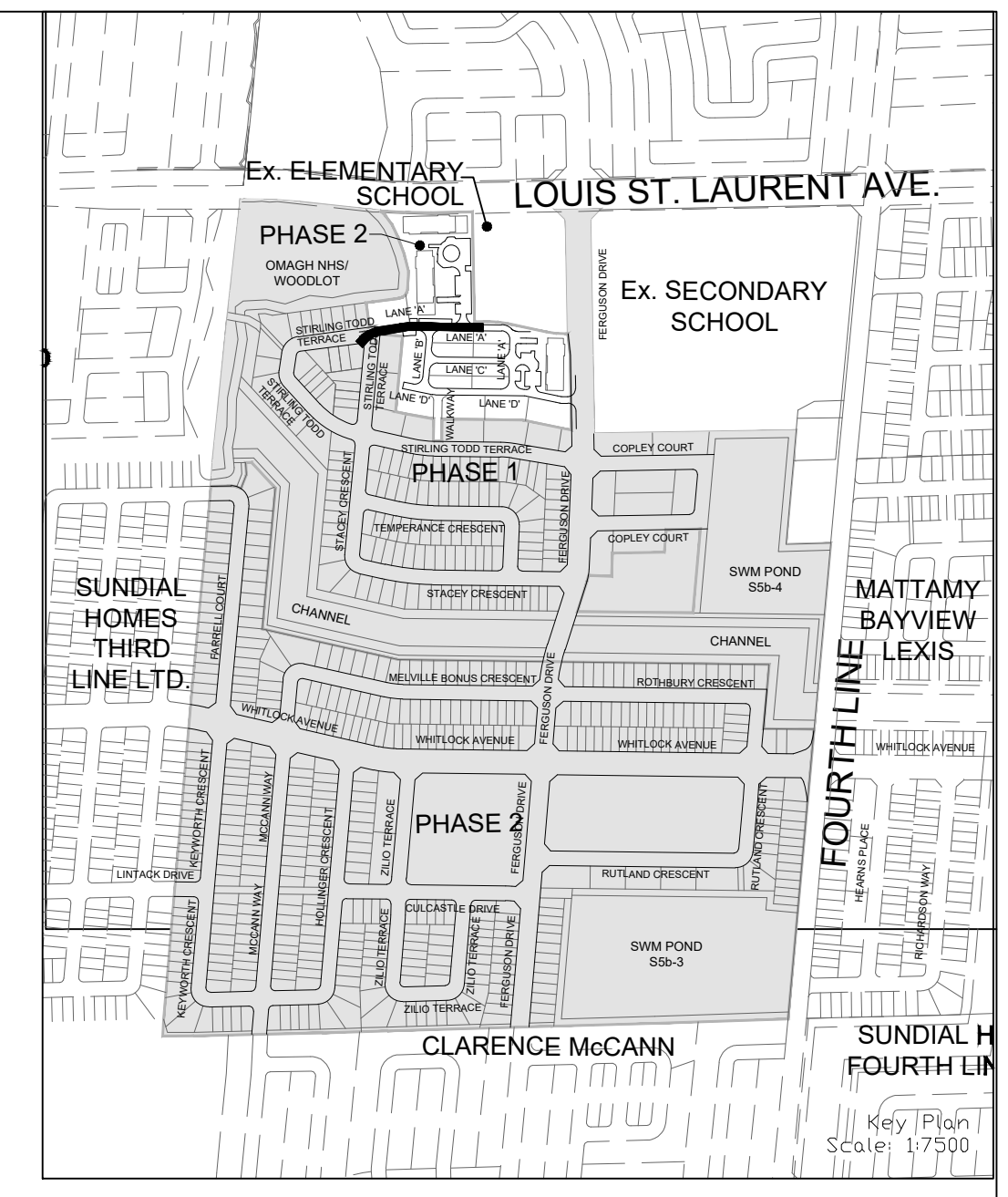
1. ALL EXISTING BUILDINGS, POST & WIRE FENCE, TREES, UTILITY POLES, CULVERTS AND RETAINING WALLS, ETC. WITHIN LOTS AND BLOCKS TO BE REMOVED, UNLESS OTHERWISE NOTED.
2. EXISTING MH AND CB COVERS, WATER V&Bs, WATER V&Cs AND UTILITY PEDESTALS ETC. TO BE ADJUSTED WITHIN NEW ROADWAYS AND BOULEVARDS, WHERE APPLICABLE.
3. CONTRACTOR TO VERIFY THE PRECISE LOCATIONS AND INVERT ELEVATIONS OF EX. UNDERGROUND SERVICES AND EX. UTILITIES PRIOR TO STARTING CONSTRUCTION.
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9. ALL RESIDENTIAL UNITS EXCEPT CONDO AND SCHOOL BLOCKS SHOULD HAVE PRESSURE REDUCING VALVES.
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13. SUMP PUMPS SHALL OUTLET ONTO CONCRETE SPLASH PAD LOCATED IN THE REAR YARD.

MATTAMY TOR PHASE 1
REFER TO
DAVID SCHAEFFER ENGINEERING LIMITED
PROJECT No. 22-1333



LEGEND

- STORM MANHOLE
- CATCHBASIN MANHOLE
- SANITARY MANHOLE
- SANITARY MANHOLE BY OTHERS
- STORM MANHOLE BY OTHERS
- PAIRED SINGLE SANITARY HOUSE CONNECTION
- SINGLE SANITARY HOUSE CONNECTION
- SINGLE STORM HOUSE CONNECTION
- WATER CONNECTION
- HYDRANT
- TEE
- CURB STOP SERVICE VALVE & BOX
- VALVE & CHAMBER
- HYDRO TRANSFORMER
- LIGHT STANDARD
- SINGLE/DOUBLE CATCHBASIN
- SUMP PUMP TO DISCHARGE TO STORM CONNECTION
- BOREHOLE
- STREETLIGHT PEDESTAL
- ANTI-SEEPAGE COLLAR
- ACUSTIC FENCE (TOWN STD. NO. E29)
- 1.5m HIGH CHAIN LINK FENCE (TOWN STD. NO. E27)
- 1.8m PRIVACY FENCE (TOWN STD. NO. E28)
- TEMPORARY PROTECTION FENCE (TOWN STD. NO. P-3)
- PROPOSED OVERLAND FLOW
- EXTERNAL OVERLAND FLOW
- CH APPROX. REGULATION LIMIT
- PHASE LINE
- OTHER PHASES



NOT FOR CONSTRUCTION

TOPOGRAPHIC INFORMATION
TOPOGRAPHIC INFORMATION PROVIDED BY R-PE SURVEYING LTD., REFERENCE No. 22-049, CAD FILE No.22049ip05, SURVEY RECEIVED FEBRUARY 16, 2023.

LEGAL INFORMATION
SITE PLAN PROVIDED BY KNYMH INC., PROJECT NUMBER 21407, FOR GARITO BARBUTO TOR PH 2 BLOCK 458, RECEIVED SEPTEMBER 11, 2024.

BENCHMARK (MINISTRY OF TRANSPORTATION)
No. 00819828155 ELEVATION = 185.351m

No.	DATE	BY	DESCRIPTION	APPROVED
2.	24-10-07	C.J.M.	2nd SUBMISSION	
1.	24-04-05	C.J.M.	1st SUBMISSION	

SCALE: HORZ 1:500 VERT. 1:50

REFERENCES: BELL, HYDRO, GAS, CABLE, TRAFFIC, WATER

APPROVALS: MUNICIPAL, DEVELOPMENT SERVICES, REGIONAL, LEGISLATIVE AND PLANNING SERVICES

STAMP: LICENSED PROFESSIONAL ENGINEER C. J. MANZO 100511578 24-10-07 PROVINCE OF ONTARIO

DSEL 600 Alden Road, Suite 606 Markham, Ontario, L3R 0E7 Tel: (905) 475-3080 Fax: (905) 475-3081 www.DSEL.ca

MILTON TOWN OF MILTON DEVELOPMENT SERVICES TOWN OF MILTON FILE No: XXXXXXX

Halton REGION The Regional Municipality of Halton REGION OF HALTON FILE No: XXXXXXX

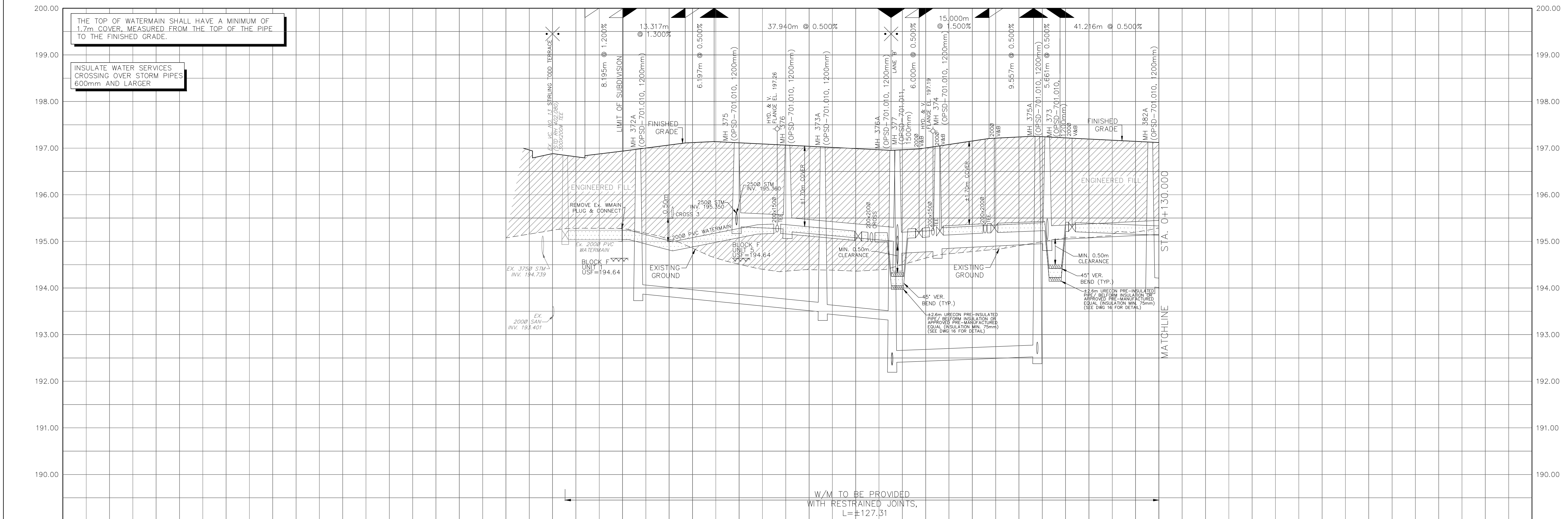
DEVELOPER: **MATTAMY (BROWNIDGE) LIMITED**

DEVELOPMENT MANAGER: **mattamy HOMES** PROJECT: **TOR SUBNODE SITEPLAN**

TITLE: **LANE 'A'** © DSEL

STA. 0+000.000 TO STA. 0+130.000

DRAWN BY: H.P.	CHECKED BY: E.G.
DESIGNED BY: H.C.	CHECKED BY: C.J.M.
PROJECT NO. 24-1377	SHEET 8 OF 18



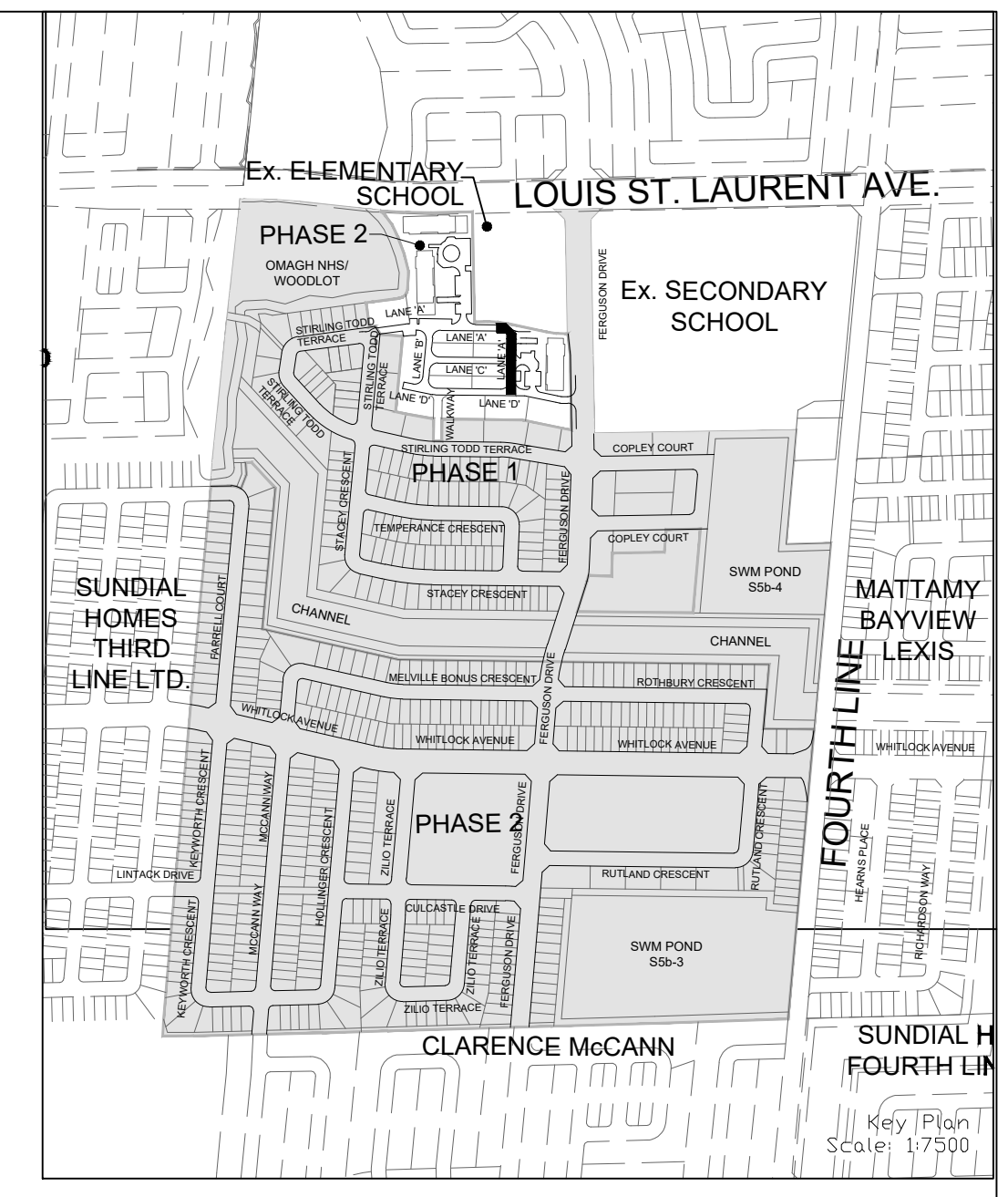
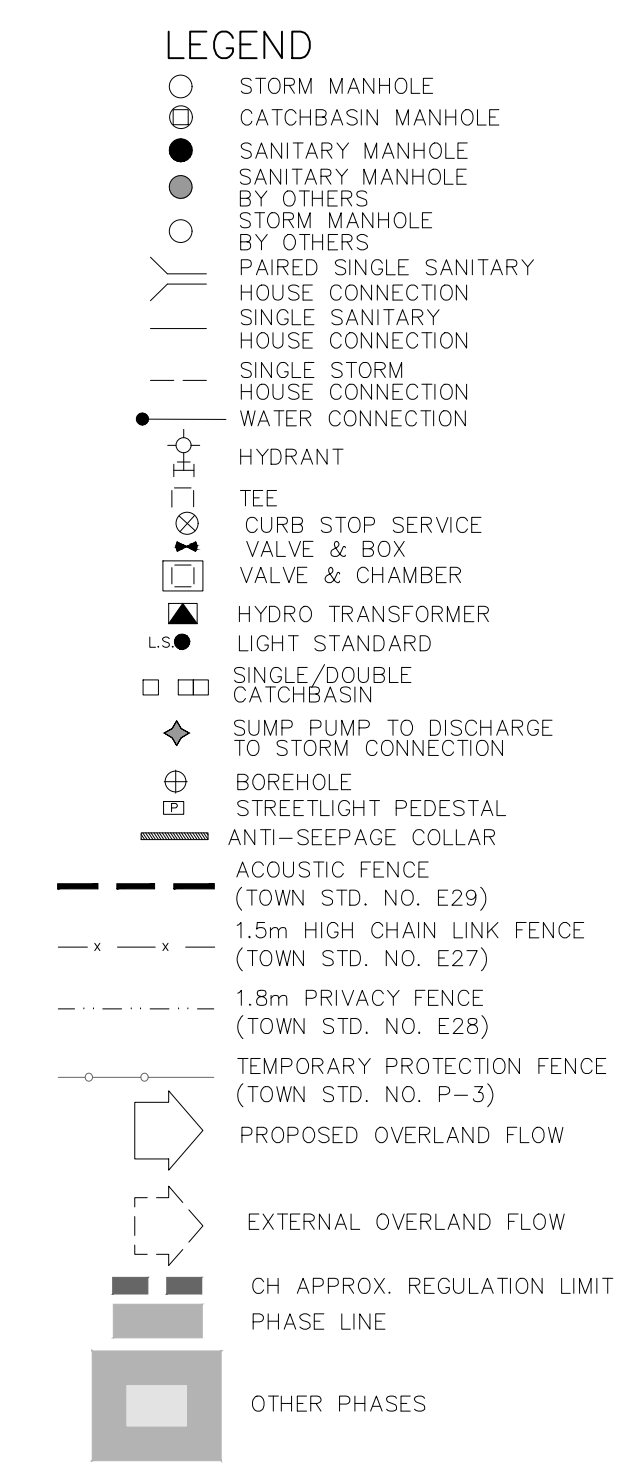
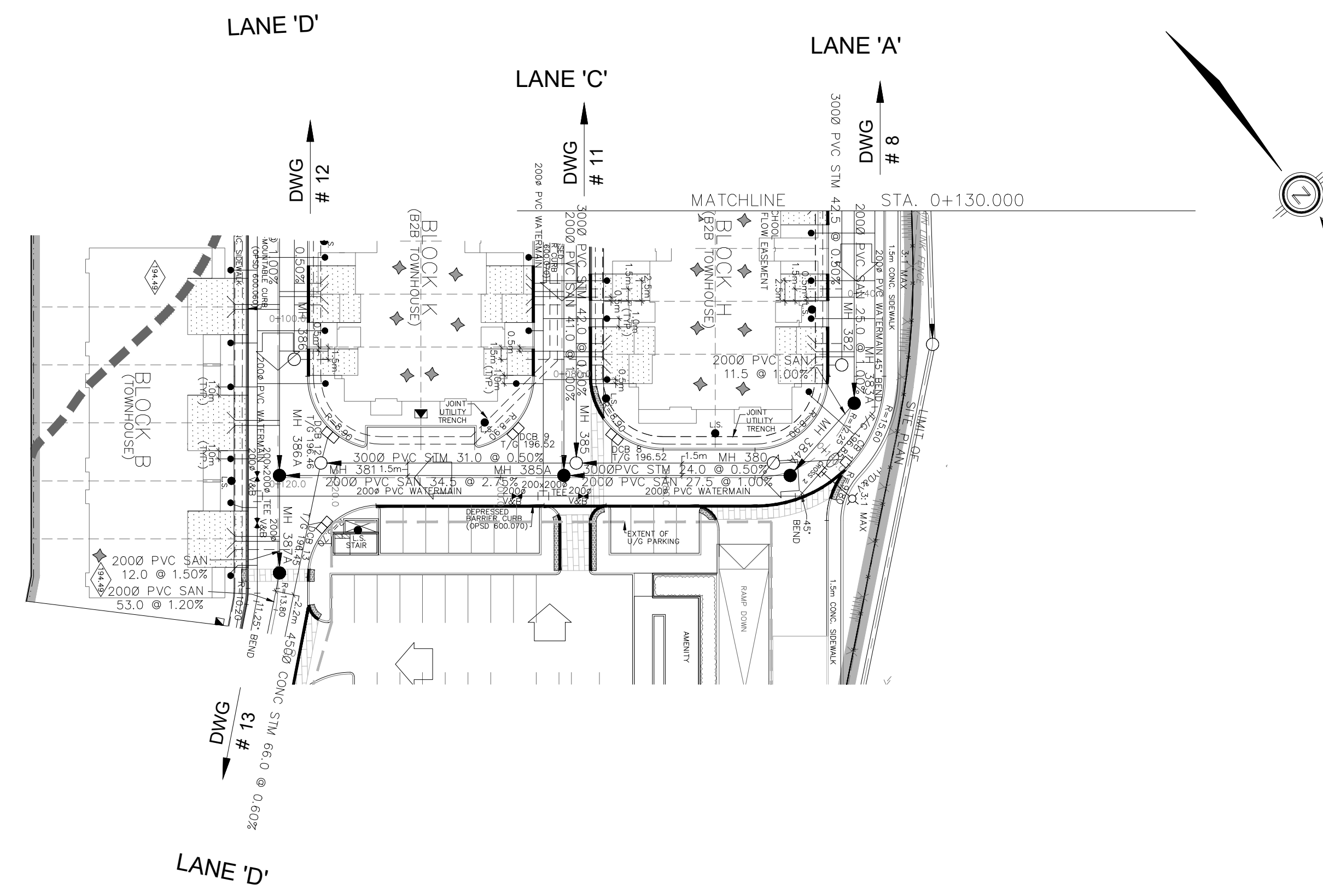
PIPE TYPE	START STA.	END STA.	DIAMETER	SLOPE	INVERT
2008 PVC SAN	0+000.000	0+006.933	39.5	1.00%	196.84
2008 PVC SAN	0+006.933	0+015.128	39.5	1.00%	196.94
2008 PVC SAN	0+015.128	0+020.000	39.5	1.00%	197.00
2008 PVC SAN	0+020.000	0+028.445	39.5	1.00%	197.11
2008 PVC SAN	0+028.445	0+034.642	39.5	1.00%	197.14
2008 PVC SAN	0+034.642	0+040.000	39.5	1.00%	197.11
2008 PVC SAN	0+040.000	0+060.000	39.5	1.00%	197.00
2008 PVC SAN	0+060.000	0+072.562	39.5	1.00%	196.95
2008 PVC SAN	0+072.562	0+076.662	39.5	1.00%	196.98
2008 PVC SAN	0+076.662	0+080.000	39.5	1.00%	197.00
2008 PVC SAN	0+080.000	0+093.582	39.5	1.00%	197.21
2008 PVC SAN	0+093.582	0+100.000	39.5	1.00%	197.24
2008 PVC SAN	0+100.000	0+103.139	39.5	1.00%	197.25
2008 PVC SAN	0+103.139	0+108.800	39.5	1.00%	197.23
2008 PVC SAN	0+108.800	0+120.000	39.5	1.00%	197.17

PAVEMENT DESIGN

- 40mm HL-3
- 50mm HL-8
- 150mm OF 19mm LIMESTONE
- 300mm GRANULAR "B", TYPE II

NOTES:

1. ALL EXISTING BUILDINGS, POST & WIRE FENCE, TREES, UTILITY POLES, CULVERTS AND RETAINING WALLS, ETC. WITHIN LOTS AND BLOCKS TO BE REMOVED, UNLESS OTHERWISE NOTED.
2. EXISTING MH AND CB COVERS, WATER V&Bs, WATER V&Cs AND UTILITY PEDESTALS ETC. TO BE ADJUSTED WITHIN NEW ROADWAYS AND BOULEVARDS, WHERE APPLICABLE.
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 BENCHMARK (MINISTRY OF TRANSPORTATION)
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1.	24-04-05	C.J.M.	1st SUBMISSION	

SCALE: HORIZ 1:500 VERT 1:50

REFERENCES

APPROVALS

MUNICIPAL APPROVAL

DEVELOPMENT SERVICES

REGIONAL APPROVAL

DESIGN OF SANITARY, WATER SERVICES AND REGIONAL ROAD WORKS APPROVED SUBJECT TO DETAIL CONSTRUCTION CONFORMING TO HALTON REGION STANDARDS & SPECIFICATIONS & LOCAL APPROVAL FROM AREA MUNICIPALITY

LEGISLATIVE AND PLANNING SERVICES

STAMP: LICENSED PROFESSIONAL ENGINEER C. J. MANZO 100511578 24-10-07 PROVINCE OF ONTARIO

DSEL 600 Alden Road, Suite 606 Markham, Ontario, L3R 0E7 Tel: (905) 475-3080 Fax: (905) 475-3081 www.DSEL.ca

MILTON TOWN OF MILTON DEVELOPMENT SERVICES TOWN OF MILTON FILE No: XXXXXXX

Halton REGION The Regional Municipality of Halton REGION OF HALTON FILE No: XXXXXXX

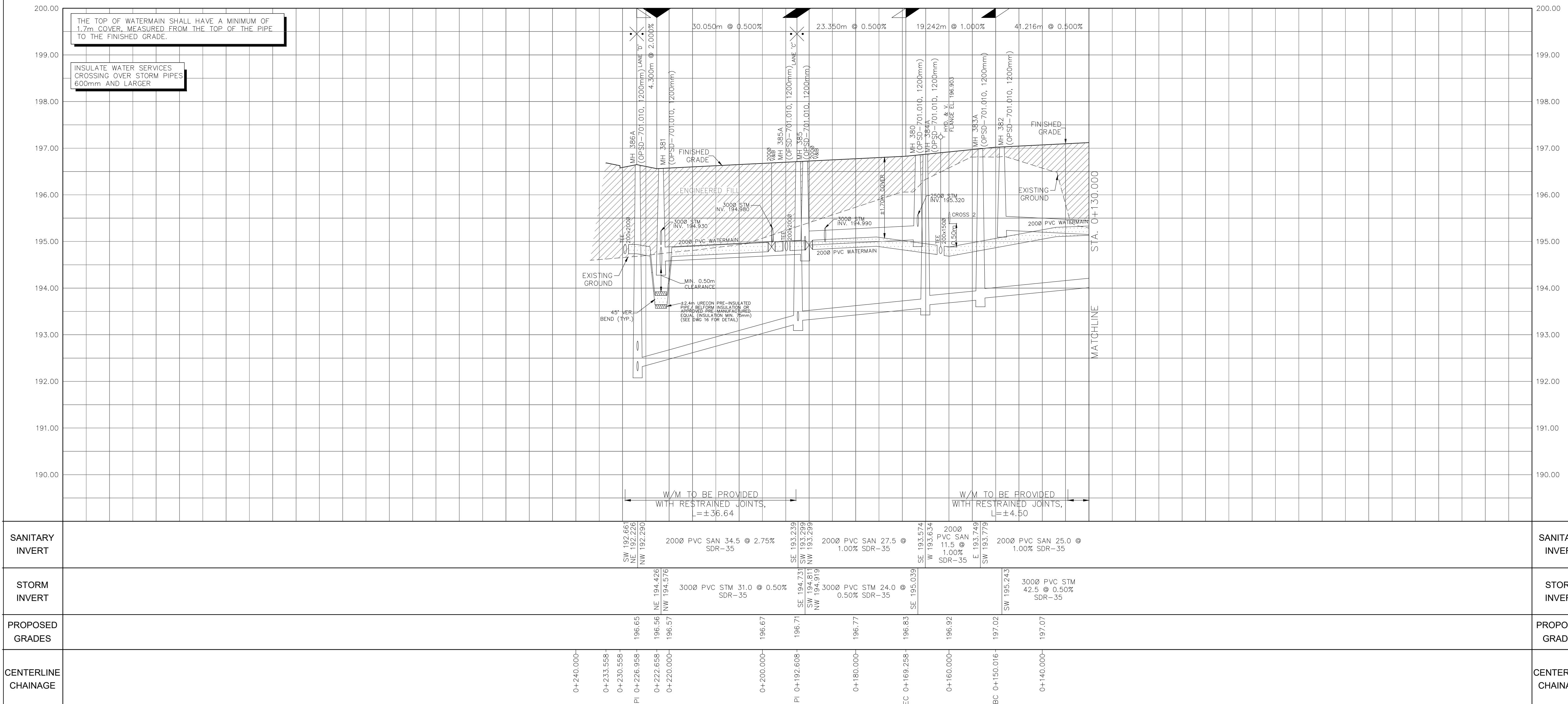
DEVELOPER: **MATTAMY (BROWNBRIDGE) LIMITED**

DEVELOPMENT MANAGER: **mattamy HOMES** PROJECT: **TOR SUBNODE SITEPLAN**

TITLE: **LANE 'A'** © DSEL

STA. 0+130.000 TO STA. 0+236.958

DRAWN BY: H.P.	CHECKED BY: E.G.
DESIGNED BY: H.C.	CHECKED BY: C.J.M.
PROJECT NO. 24-1377	SHEET 9 OF 18



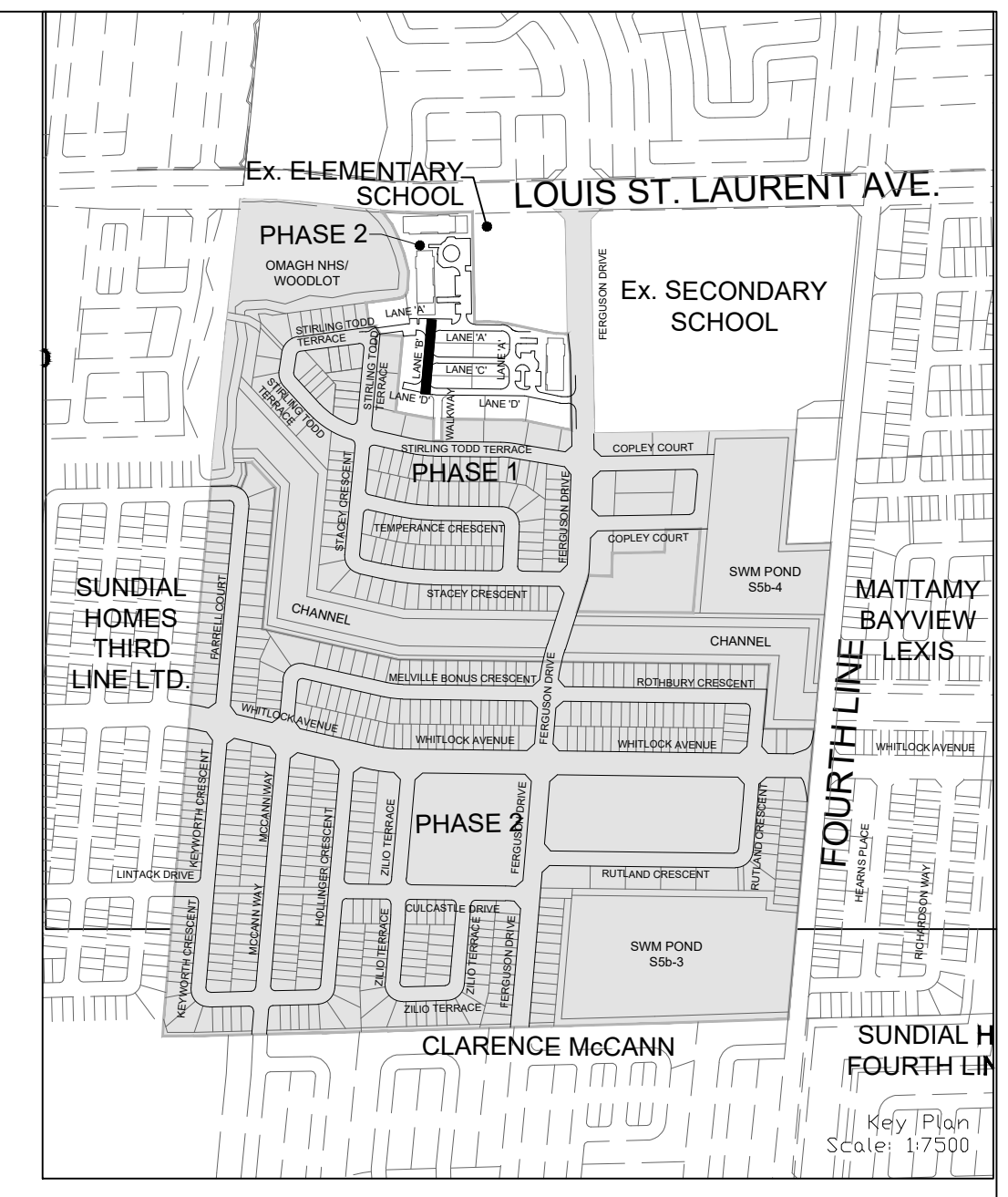
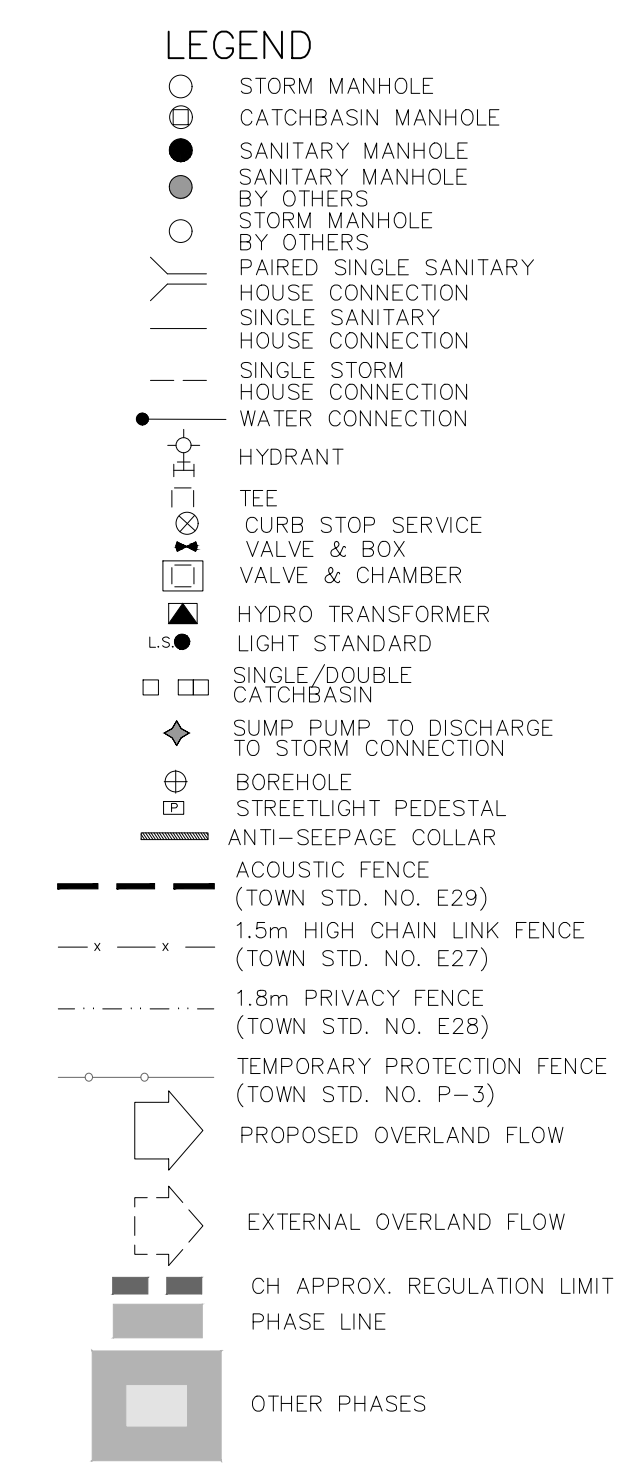
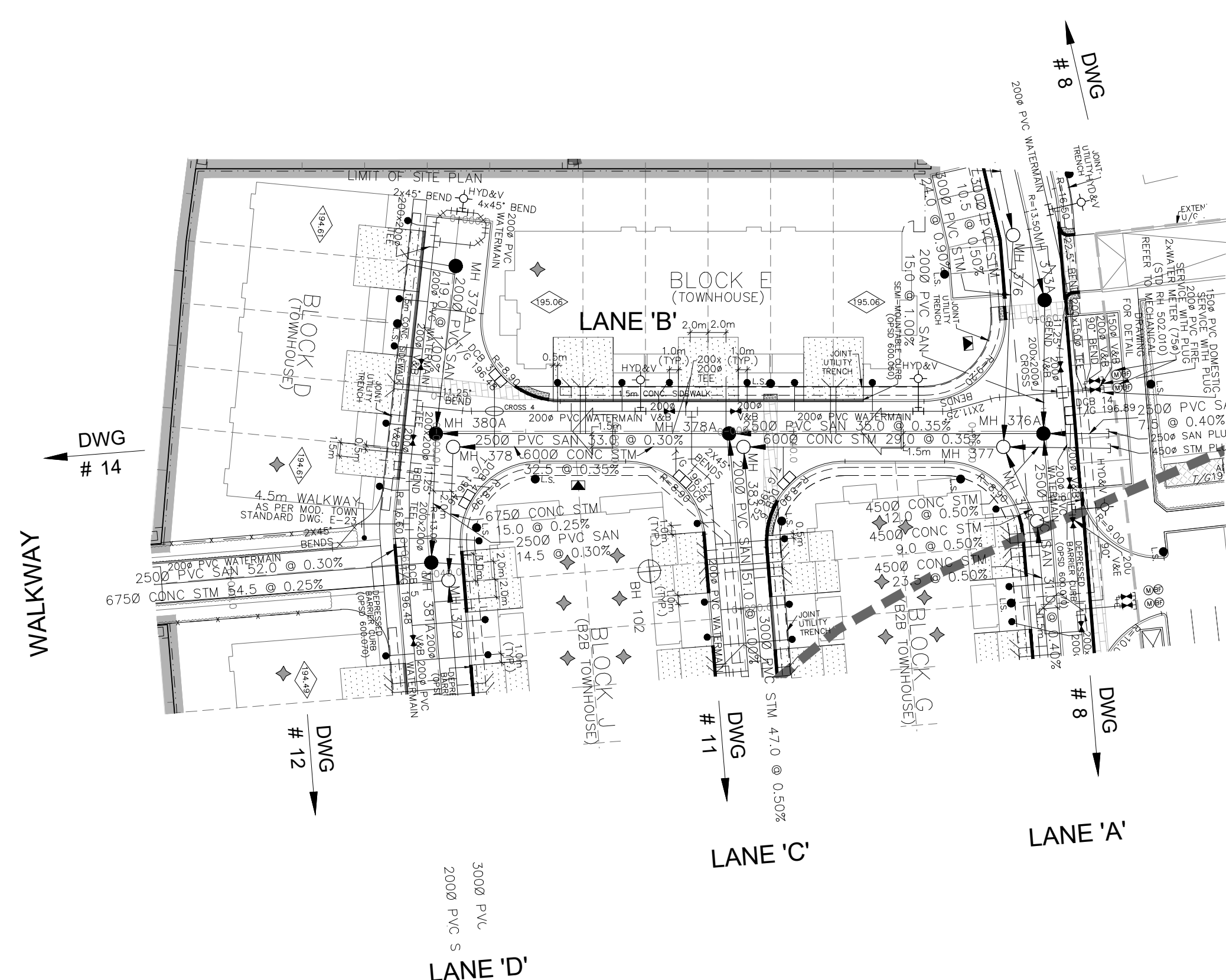
PIPE TYPE	START STATION	END STATION	SIZE & SLOPE	INVERT ELEVATION
SANITARY INVERT	0+192.661	0+220.000	2000 PVC SAN 34.5 @ 2.75% SDR-35	192.261
STORM INVERT	0+194.273	0+200.000	3000 PVC STM 31.0 @ 0.50% SDR-35	194.273
PROPOSED GRADES	0+192.608	0+196.67		196.67
CENTERLINE CHAINAGE	0+240.000	0+140.000		

PAVEMENT DESIGN

- 40mm HL-3
- 50mm HL-8
- 150mm OF 19mm LIMESTONE
- 300mm GRANULAR "B", TYPE II

NOTES:

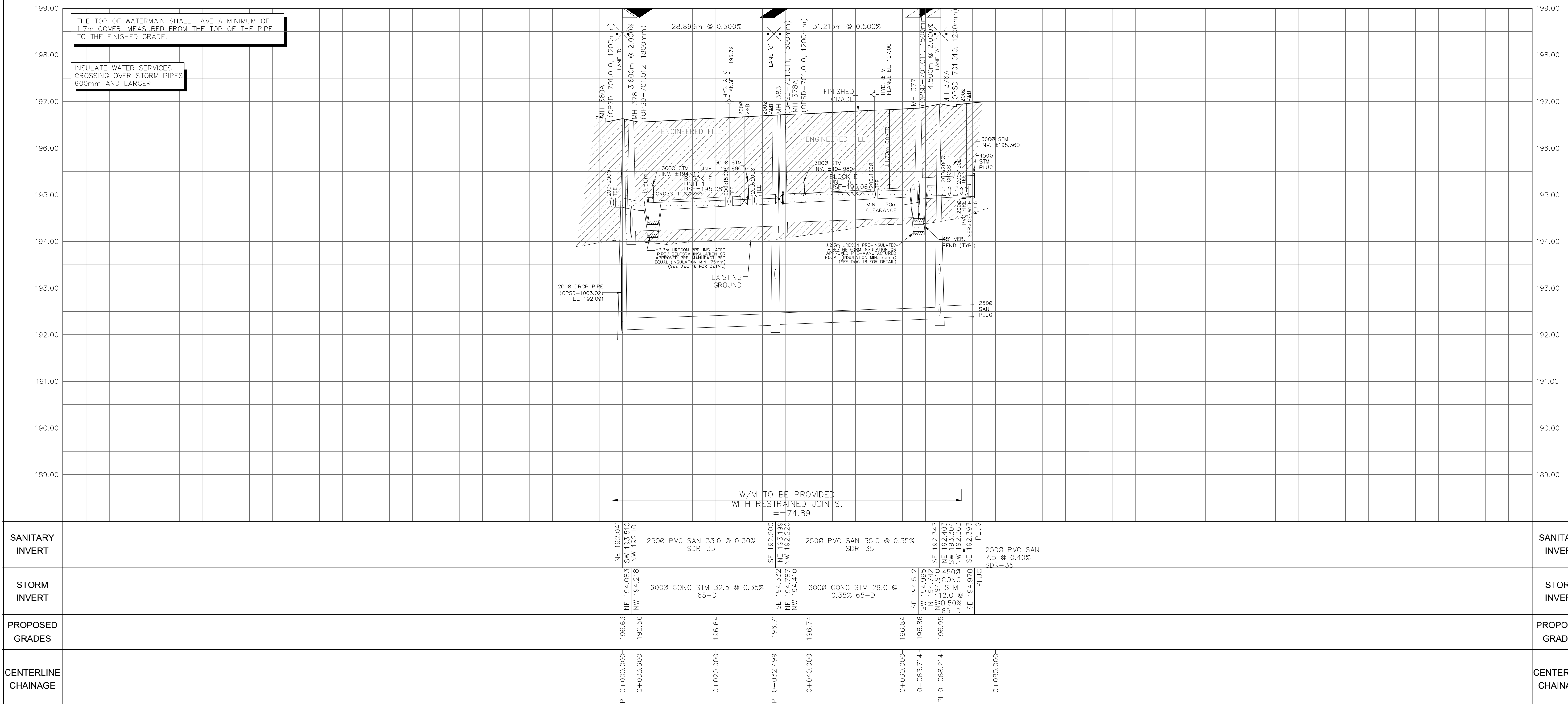
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 REFERENCE No. 22-049, CAD FILE No.22049ip05, SURVEY
 RECEIVED FEBRUARY 16, 2023.

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 FOR GARITO BARBUTO TOR PH 2 BLOCK 458, RECEIVED SEPTEMBER 11, 2024.
BENCHMARK (MINISTRY OF TRANSPORTATION)
 No. 00819828155 ELEVATION = 185.351m



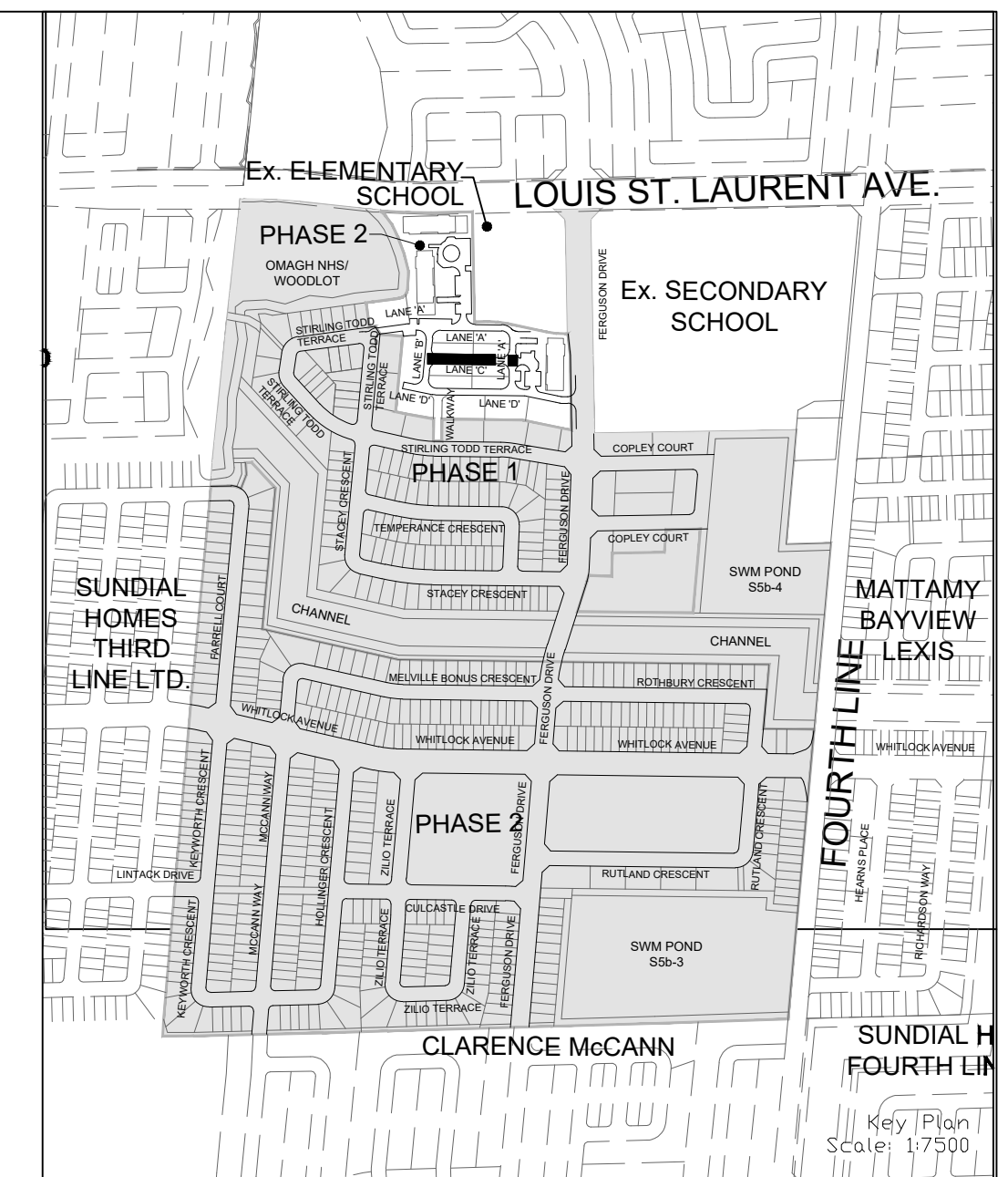
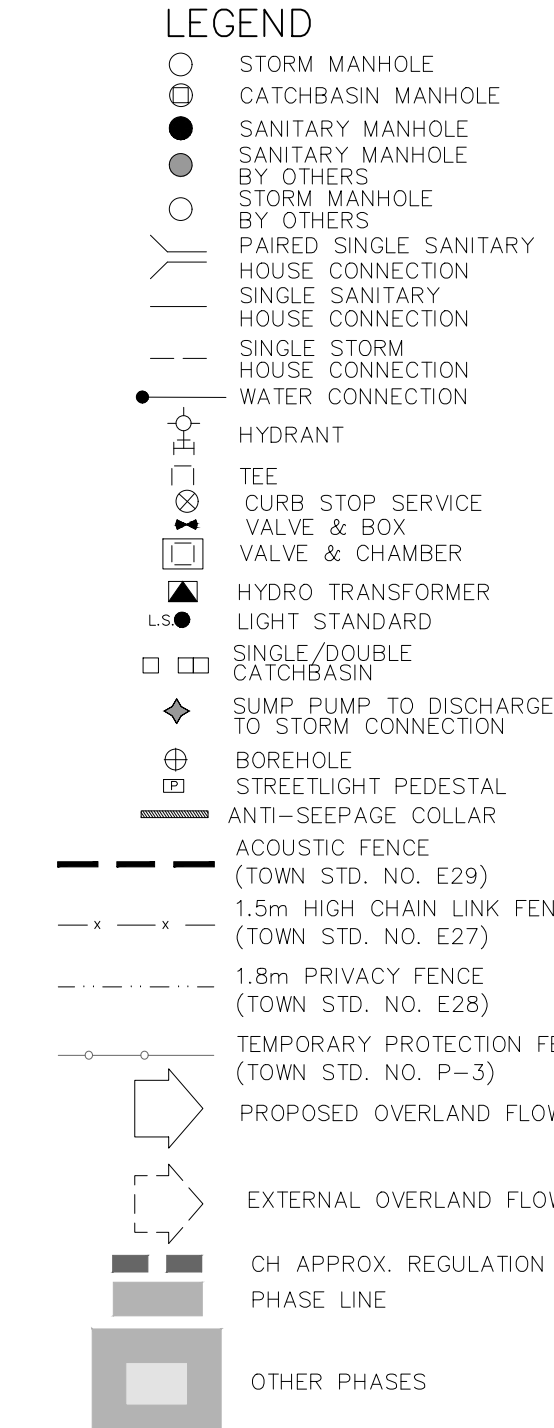
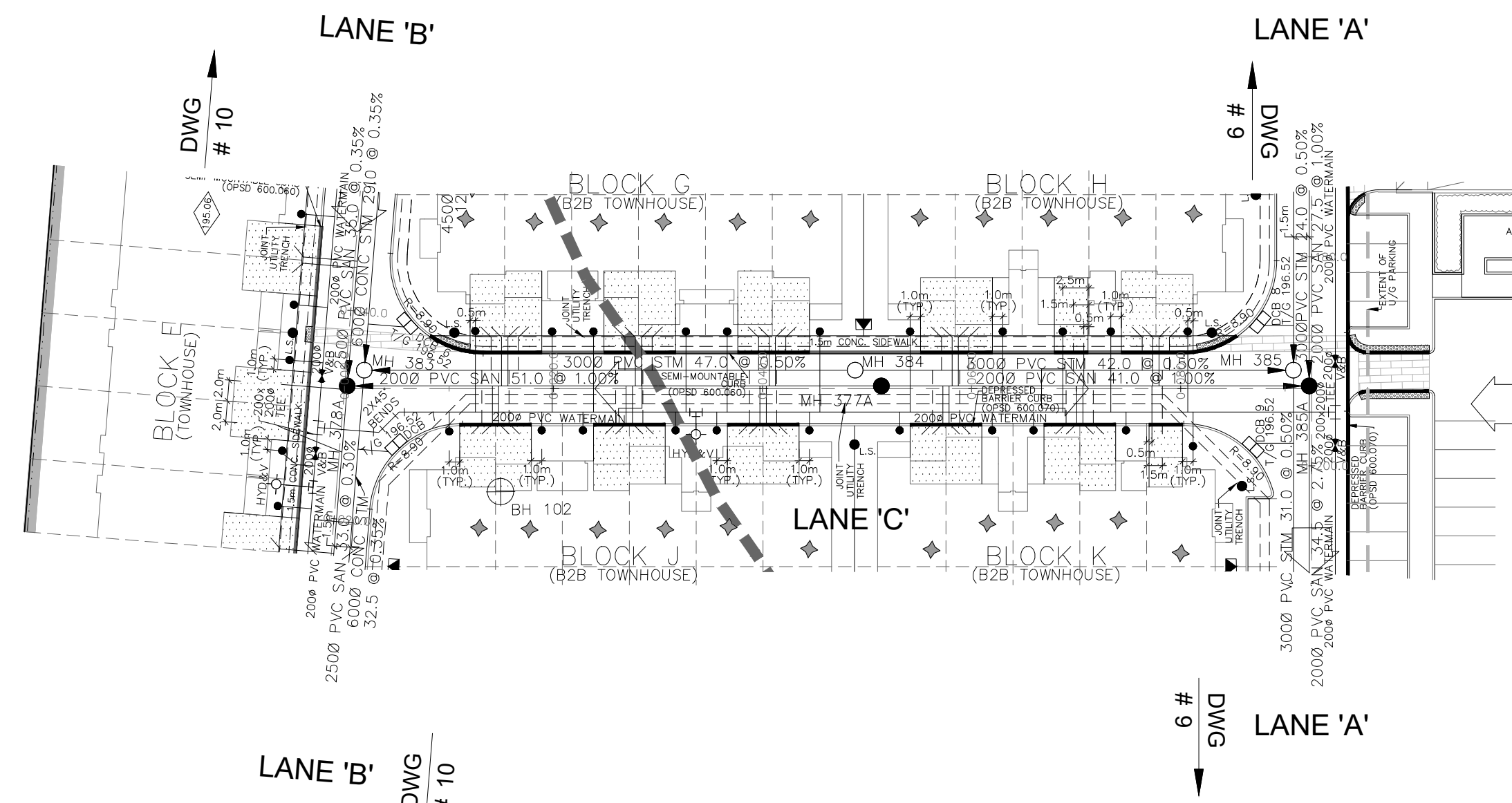
2. 24-10-07 C.J.M. 2nd SUBMISSION		APPROVED
1. 24-04-05 C.J.M. 1st SUBMISSION		
No.	DATE	DESCRIPTION
SCALE: HORZ 1:500 VERT. 1:50		
APPROVALS		FIELD NOTES
MUNICIPAL APPROVAL		BELL <input type="checkbox"/> HYDRO <input type="checkbox"/>
DEVELOPMENT SERVICES	DATE	GAS <input type="checkbox"/> CABLE <input type="checkbox"/>
REGIONAL APPROVAL		TRAFFIC <input type="checkbox"/> WATER <input type="checkbox"/>
LEGISLATIVE AND PLANNING SERVICES		STAMP
		600 Alden Road, Suite 606 Markham, Ontario, L3R 0E7 Tel: (905) 475-3080 Fax: (905) 475-3081 www.DSEL.ca
TOWN OF MILTON DEVELOPMENT SERVICES		TOWN OF MILTON FILE No: XXXXXXX
The Regional Municipality of Halton		REGION OF HALTON FILE No: XXXXXXX
DEVELOPER		
MATTAMY (BROWNBRIDGE) LIMITED		
DEVELOPMENT MANAGER		PROJECT
		TOR SUBNODE SITEPLAN
TITLE		
LANE 'B' © DSEL		
STA. 0+000.000 TO STA. 0+78.214		
DRAWN BY: H.P.		CHECKED BY: E.G.
DESIGNED BY: H.C.		CHECKED BY: C.J.M.
PROJECT NO.		
24-1377		SHEET 10 OF 18

PAVEMENT DESIGN

- 40mm HL-3
- 50mm HL-8
- 150mm OF 19mm LIMESTONE
- 300mm GRANULAR "B", TYPE II

NOTES:

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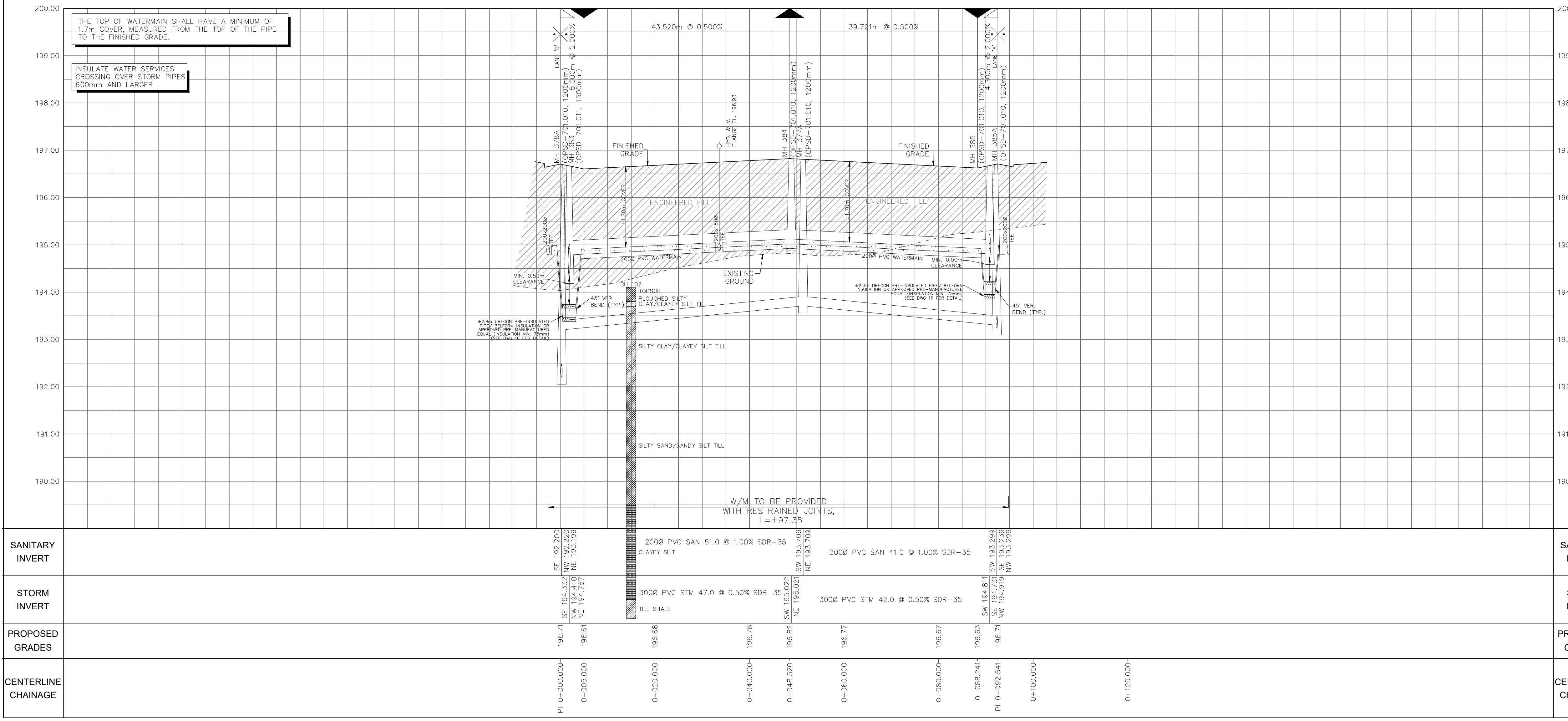


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1. 24-04-05 C.J.M. 1st SUBMISSION			
No.	DATE	BY	DESCRIPTION
SCALE:		REFERENCES	
HORIZ: 1:500		0 5 10 15 20	
VERT: 1:50		APPROVALS	
MUNICIPAL APPROVAL		FIELD NOTES	
DEVELOPMENT SERVICES		BELL <input type="checkbox"/> HYDRO <input type="checkbox"/>	
DATE		GAS <input type="checkbox"/> CABLE <input type="checkbox"/>	
		TRAFFIC <input type="checkbox"/> WATER <input type="checkbox"/>	
REGIONAL APPROVAL		STAMP	
DESIGN OF SANITARY, WATER SERVICES AND REGIONAL ROAD WORKS APPROVED SUBJECT TO DETAIL CONSTRUCTION CONFORMING TO HALTON REGION STANDARDS & SPECIFICATIONS & LOCATIONAL APPROVAL FROM AREA MUNICIPALITY			
LEGISLATIVE AND PLANNING SERVICES		DATE	
		600 Alden Road, Suite 606 Markham, Ontario, L3R 0E7 Tel: (905) 475-3080 Fax: (905) 475-3081 www.DSEL.ca	
		TOWN OF MILTON DEVELOPMENT SERVICES FILE No: XXXXXXX	
		The Regional Municipality of Halton REGION OF HALTON FILE No: XXXXXXX	
DEVELOPER		MATTAMY (BROWN RIDGE) LIMITED	
DEVELOPMENT MANAGER		PROJECT	
		TOR SUBNODE SITEPLAN	
TITLE		LANE 'C' © DSEL	
PROPOSED GRADES		STA. 0+000.000 TO STA. 0+102.541	
CENTERLINE CHAINAGE		DRAWN BY: H.P. CHECKED BY: E.G. DESIGNED BY: H.C. CHECKED BY: C.J.M. PROJECT NO. 24-1377 SHEET 11 OF 18	



THE TOP OF WATERMAIN SHALL HAVE A MINIMUM OF 1.7m COVER, MEASURED FROM THE TOP OF THE PIPE TO THE FINISHED GRADE.

INSULATE WATER SERVICES CROSSING OVER STORM PIPES 600mm AND LARGER

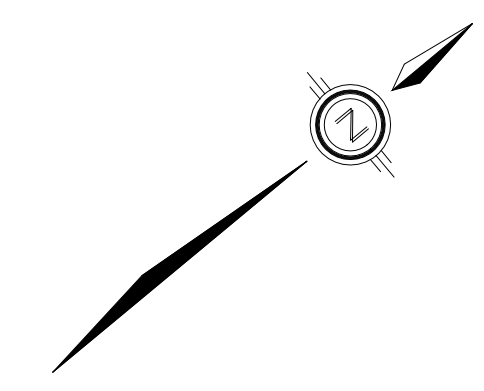
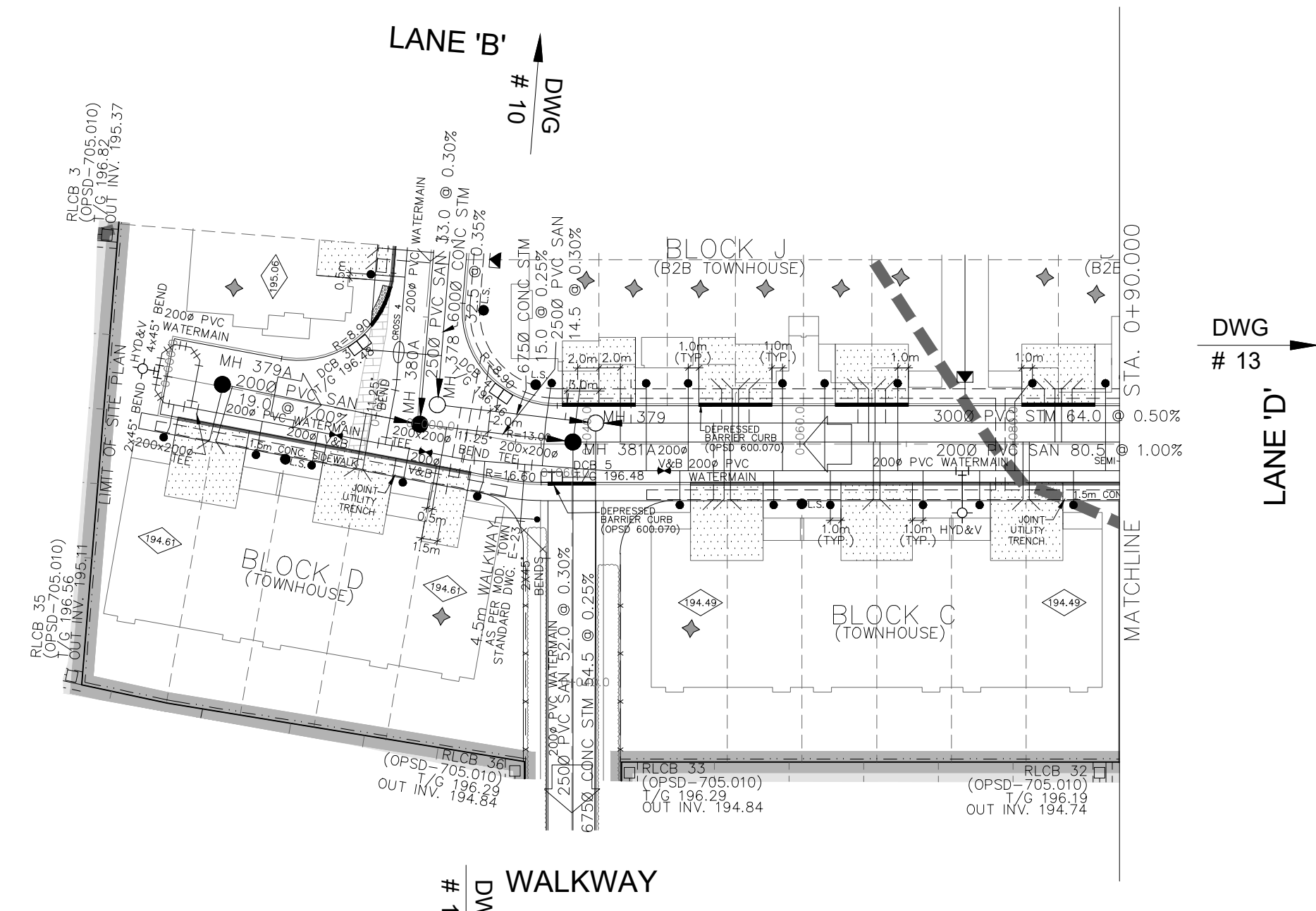
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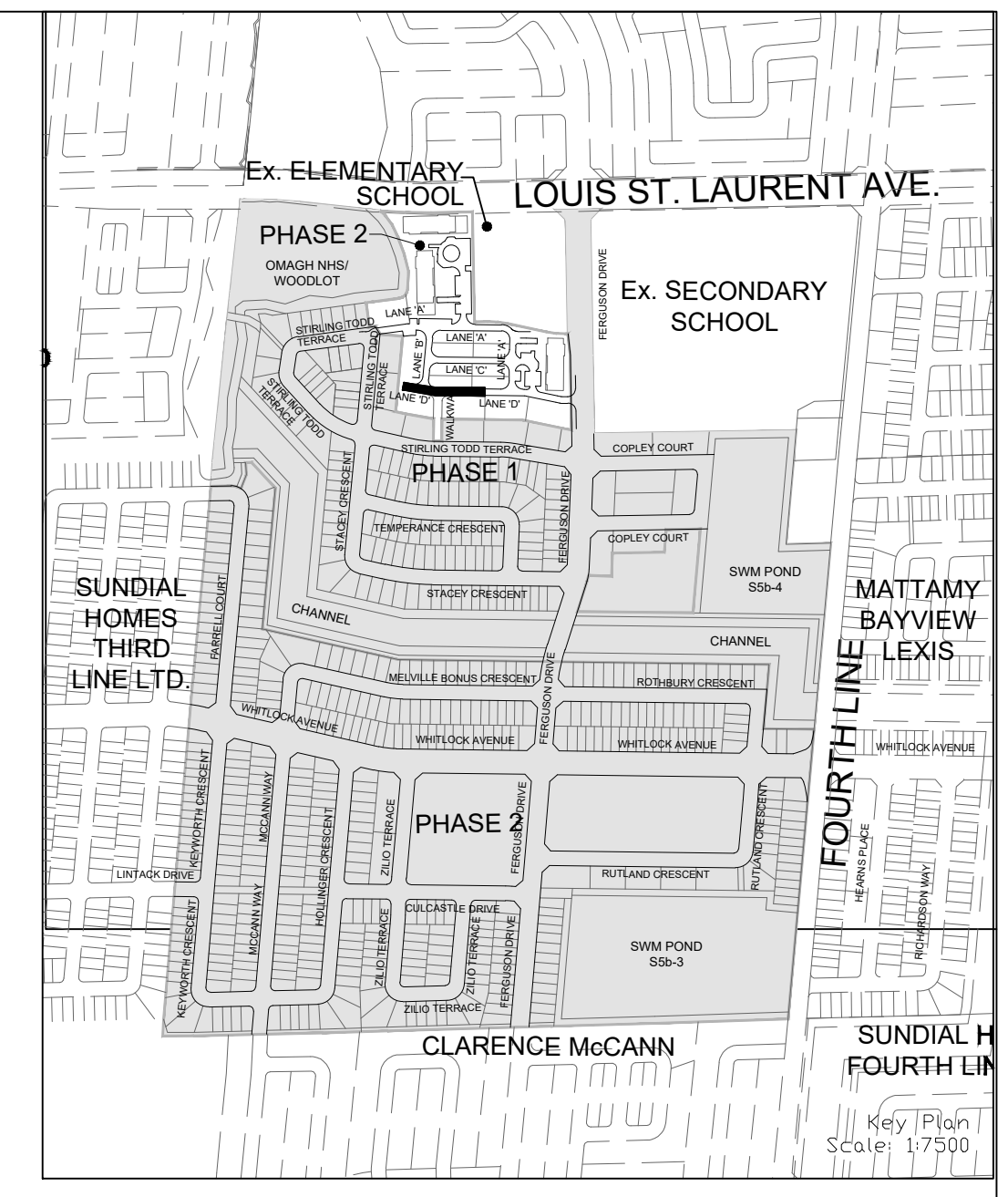
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9. ALL RESIDENTIAL UNITS EXCEPT CONDO AND SCHOOL BLOCKS SHOULD HAVE PRESSURE REDUCING VALVES
10. THE LOCATIONS OF ANTI-SEEPAGE COLLARS SHALL BE DETERMINED BY THE PROJECT GEOTECHNICAL ENGINEER DURING SEWER CONSTRUCTION ON THE SITE
11. EXISTING WATERMAIN STUBS WILL REQUIRE SWABBING, FLUSHING, AND SAMPLING. WORK TO BE COMPLETED BY REGION OF HALTON STAFF AT THE DEVELOPER'S EXPENSE
12. INSULATION REQUIRED FOR WATERMAIN/WATER SERVICE WHERE THE SEPARATION BETWEEN WATERMAIN/WATER SERVICES AND OTHER SERVICES AND STRUCTURES IS LESS THAN 1.2m AND/OR THE COVER IS LESS THAN 1.7m (SEE REGION STANDARD RH 408.020)
13. SUMP PUMPS SHALL OUTLET ONTO CONCRETE SPLASH PAD LOCATED IN THE REAR YARD.

MATTAMY TOR PHASE 1
REFER TO
DAVID SCHEFFER ENGINEERING LIMITED
PROJECT No. 22-1333



- LEGEND**
- STORM MANHOLE
 - CATCHBASIN MANHOLE
 - SANITARY MANHOLE
 - SANITARY MANHOLE BY OTHERS
 - STORM MANHOLE BY OTHERS
 - PAIRED SINGLE SANITARY HOUSE CONNECTION
 - SINGLE SANITARY HOUSE CONNECTION
 - SINGLE STORM HOUSE CONNECTION
 - WATER CONNECTION
 - HYDRANT
 - TEE
 - CURB STOP SERVICE VALVE & BOX
 - VALVE & CHAMBER
 - HYDRO TRANSFORMER
 - LIGHT STANDARD
 - SINGLE/DOUBLE CATCHBASIN
 - SUMP PUMP TO DISCHARGE TO STORM CONNECTION
 - BOREHOLE
 - STREETLIGHT PEDESTAL
 - ANTI-SEEPAGE COLLAR
 - ACOUSTIC FENCE (TOWN STD. NO. E29)
 - 1.5m HIGH CHAIN LINK FENCE (TOWN STD. NO. E27)
 - 1.8m PRIVACY FENCE (TOWN STD. NO. E28)
 - TEMPORARY PROTECTION FENCE (TOWN STD. NO. P-3)
 - PROPOSED OVERLAND FLOW
 - EXTERNAL OVERLAND FLOW
 - CH APPROX. REGULATION LIMIT
 - PHASE LINE
 - OTHER PHASES



NOT FOR CONSTRUCTION

TOPOGRAPHIC INFORMATION
TOPOGRAPHIC INFORMATION PROVIDED BY R-PE SURVEYING LTD., REFERENCE No. 22-049, CAD FILE No.22049ip05, SURVEY RECEIVED FEBRUARY 16, 2023.

LEGAL INFORMATION
SITE PLAN PROVIDED BY KNYMH INC., PROJECT NUMBER 21407, FOR GARITO BARBUTO TOR PH 2 BLOCK 458, RECEIVED SEPTEMBER 11, 2024.

BENCHMARK (MINISTRY OF TRANSPORTATION)
No. 00819828155 ELEVATION = 185.351m

No.	DATE	BY	DESCRIPTION	APPROVED
2.	24-10-07	C.J.M.	2nd SUBMISSION	
1.	24-04-05	C.J.M.	1st SUBMISSION	

SCALE: HORIZ 1:500 VERT 1:50

REFERENCES

APPROVALS

MUNICIPAL APPROVAL

DEVELOPMENT SERVICES

REGIONAL APPROVAL

LEGISLATIVE AND PLANNING SERVICES

600 Alden Road, Suite 606 Markham, Ontario, L3R 0E7 Tel: (905) 475-3080 Fax: (905) 475-3081 www.DSEL.ca

TOWN OF MILTON DEVELOPMENT SERVICES

The Regional Municipality of Halton

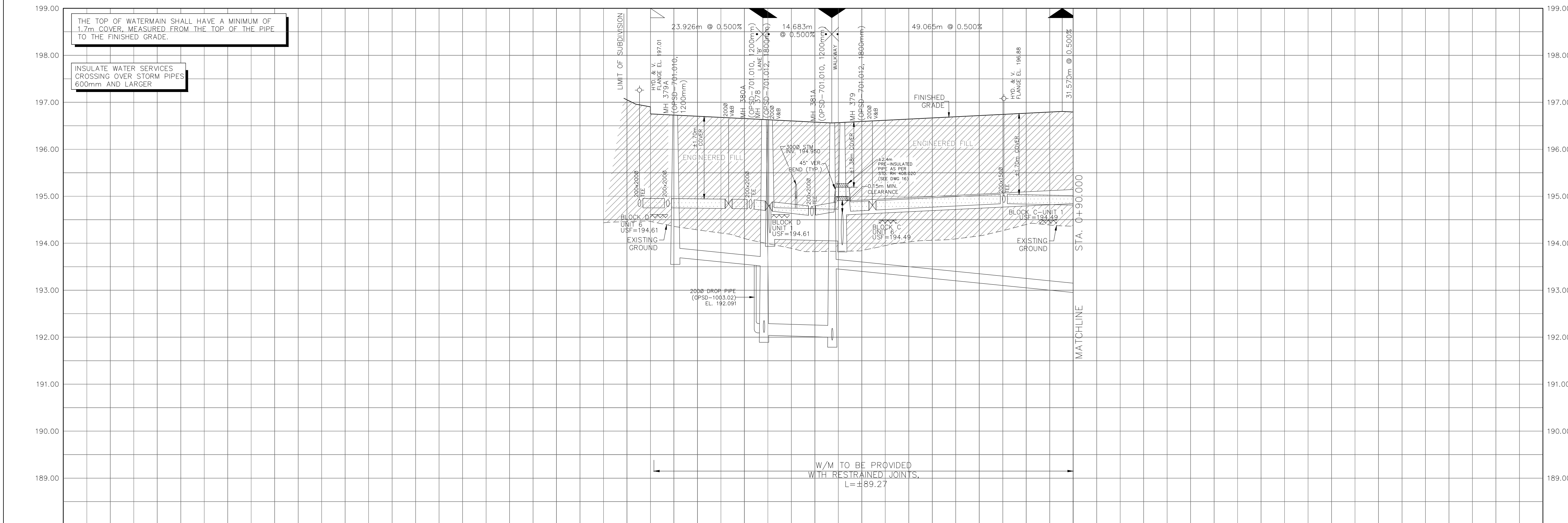
DEVELOPER: MATTAMY (BROWNBRIDGE) LIMITED

DEVELOPMENT MANAGER: mattamy HOMES

PROJECT: TOR SUBNODE SITEPLAN

TITLE: LANE 'D' © DSEL

STAMP: LICENSED PROFESSIONAL ENGINEER C. J. MANZO 100511578 24-10-07 PROVINCE OF ONTARIO



PIPE TYPE	START STA.	END STA.	DIAMETER	GRADE	INVERT	OUTLET
SANITARY INVERT	193.700	194.61	200Ø PVC SAN	1.00%	194.61	200Ø DROOP PIPE (OPSD-1013.02) EL. 192.091
SANITARY INVERT	194.61	194.49	250Ø PVC SAN	0.30%	194.49	
SANITARY INVERT	194.49	196.67	200Ø PVC SAN	1.00%	196.67	
STORM INVERT	194.61	194.49	675Ø CONC STM	0.25%	194.49	
STORM INVERT	194.49	196.67	300Ø PVC STM	0.50%	196.67	
PROPOSED GRADES	194.61	196.67				
CENTERLINE CHAINAGE	0+000.000	0+020.000				

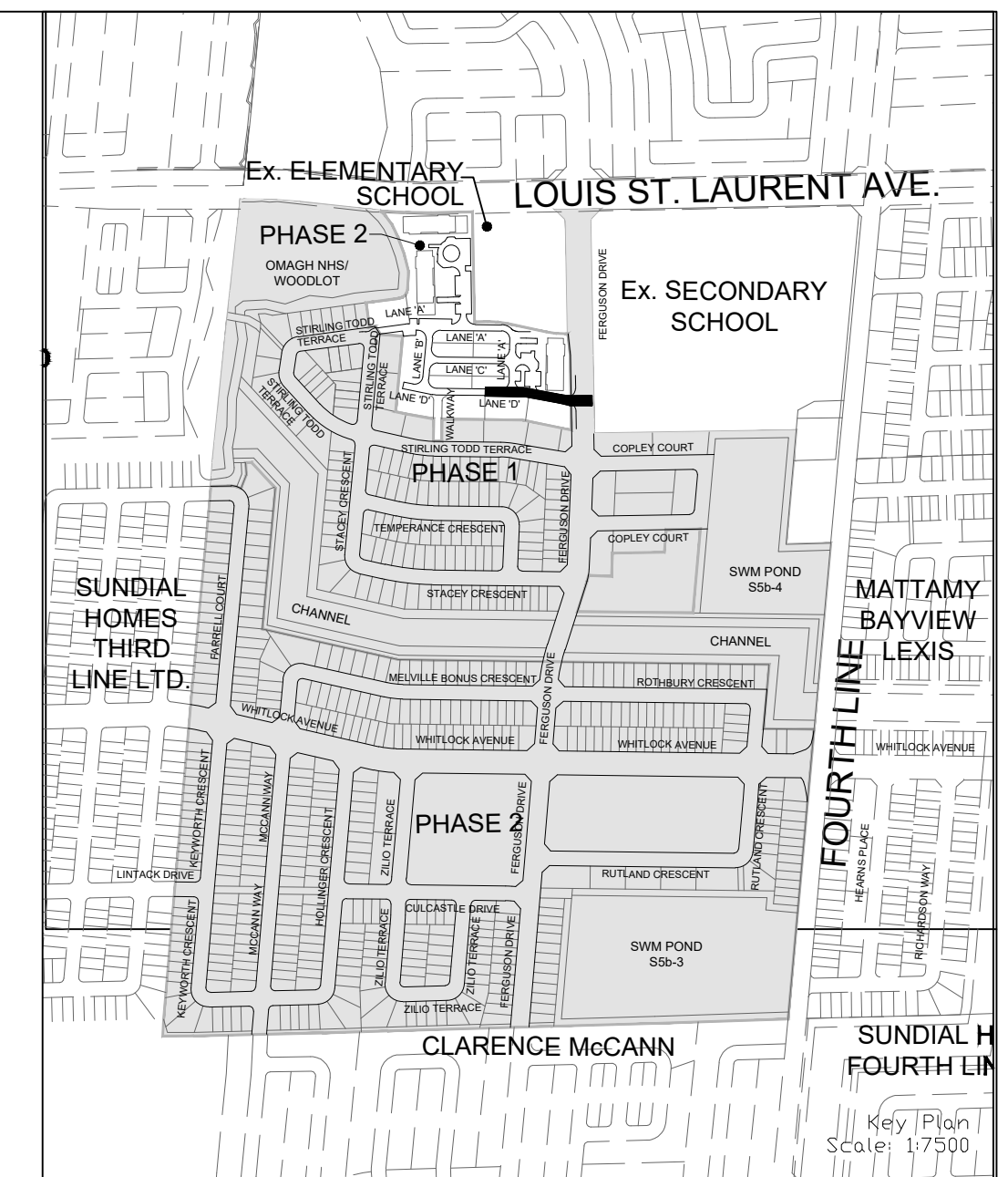
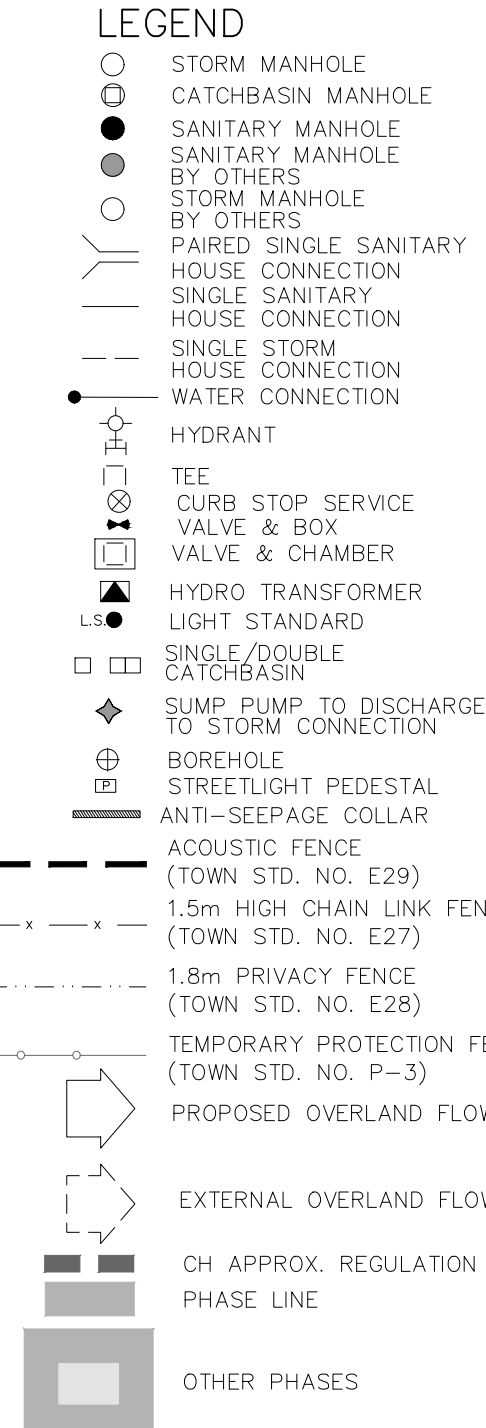
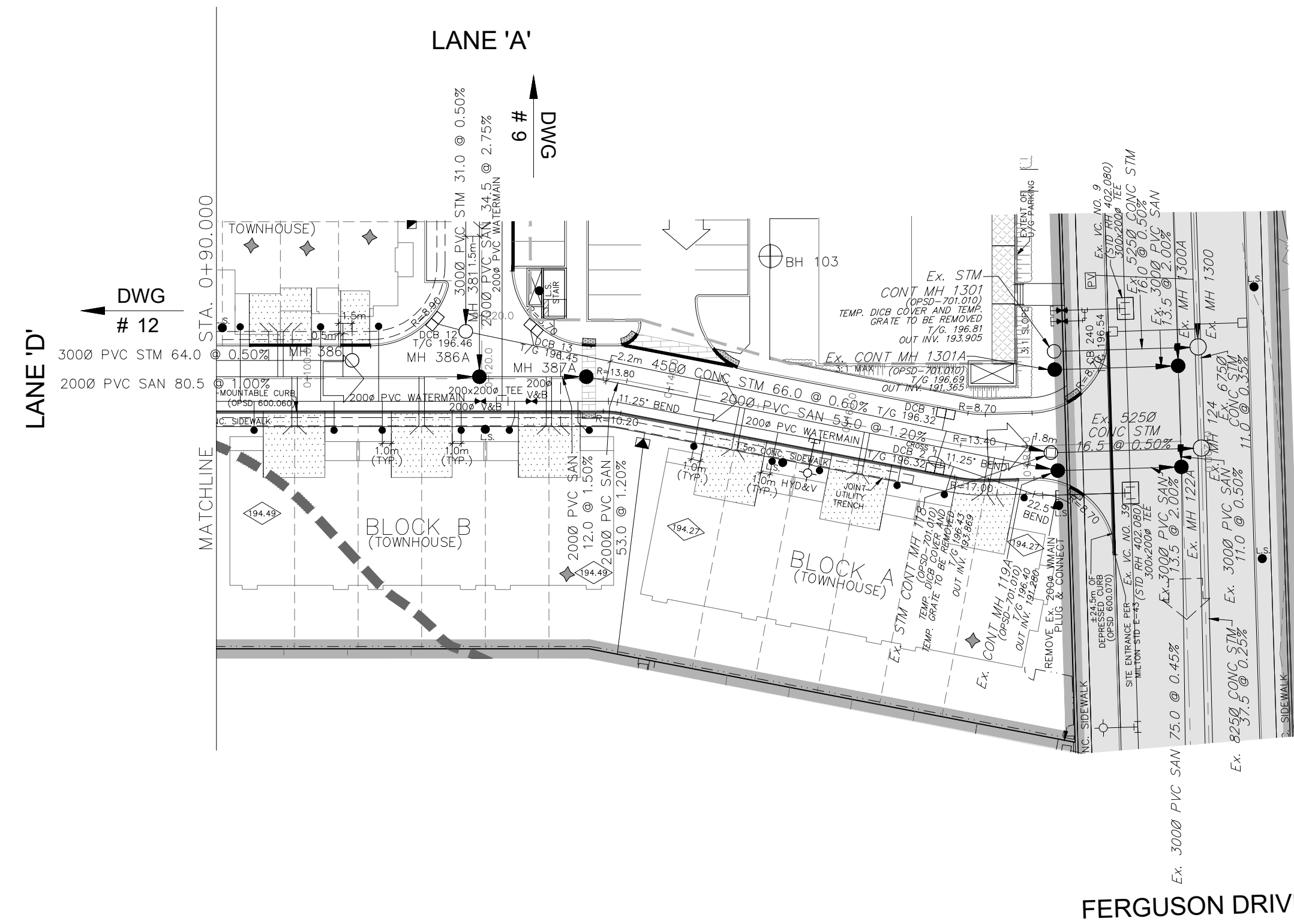
FILE No:	XXXXXXX
REGION FILE No:	XXXXXXX
DEVELOPER:	MATTAMY (BROWNBRIDGE) LIMITED
DEVELOPMENT MANAGER:	mattamy HOMES
PROJECT:	TOR SUBNODE SITEPLAN
TITLE:	LANE 'D' © DSEL
STA. 0+000.000 TO STA. 0+900.000	
DRAWN BY: H.P.	CHECKED BY: E.G.
DESIGNED BY: H.C.	CHECKED BY: C.J.M.
PROJECT NO. 24-1377	SHEET 12 OF 18

PAVEMENT DESIGN

- 40mm HL-3
- 50mm HL-8
- 150mm OF 19mm LIMESTONE
- 300mm GRANULAR "B", TYPE II

NOTES:

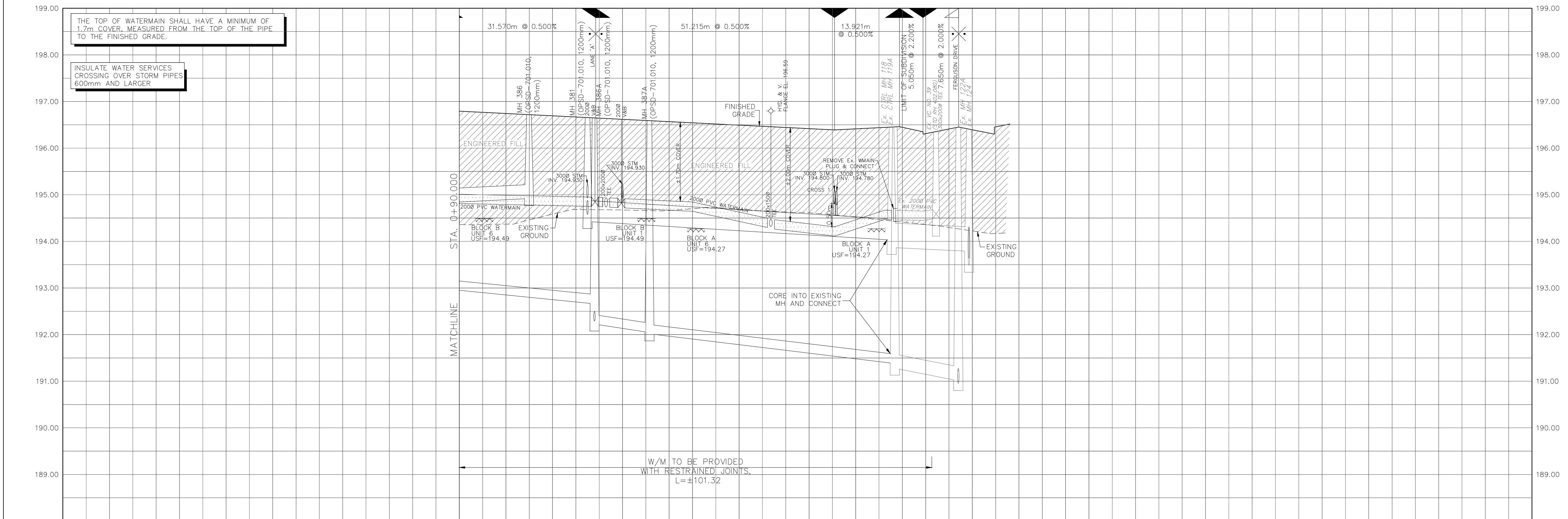
- ALL EXISTING BUILDINGS, POST & WIRE FENCE, TREES, UTILITY POLES, CULVERTS AND RETAINING WALLS, ETC. WITHIN LOTS AND BLOCKS TO BE REMOVED, UNLESS OTHERWISE NOTED.
- EXISTING MH AND CB COVERS, WATER V&Bs, WATER V&Cs AND UTILITY PEDESTALS ETC. TO BE ADJUSTED WITHIN NEW ROADWAYS AND BOULEVARDS, WHERE APPLICABLE.
- CONTRACTOR TO VERIFY THE PRECISE LOCATIONS AND INVERT ELEVATIONS OF EX. UNDERGROUND SERVICES AND EX. UTILITIES PRIOR TO STARTING CONSTRUCTION.
- ANY DISTURBED AREA DURING CONSTRUCTION TO BE RESTORED TO THE ORIGINAL CONDITION OR BETTER TO THE SATISFACTION OF THE AUTHORITIES HAVING JURISDICTION.
- WRITTEN PERMISSION REQUIRED FOR WORK ON ADJACENT LANDS.
- SERVING AND GRADING DESIGN FOR FUTURE LOTS LANDS SHOWN ON THE DRAWINGS ARE CONCEPTUAL, WHICH ARE TO BE FURTHER REVIEWED / FINALIZED UPON FUTURE DEVELOPMENT.
- WORKS WITHIN THE CH REGULATION LIMIT WILL REQUIRE A PERMIT FROM CONSERVATION HALTON UNDER ONTARIO REGULATION 162/06.
- ALL DWELLINGS WITH THE EXCEPTION OF SLAB-ON-GRADE UNITS, SHALL BE PROVIDED WITH SUMP PUMPS IN ACCORDANCE WITH SECTION 1.1.27.1, STD DWG. E-25, TO THE SATISFACTION OF THE TOWN OF MILTON.
- ALL RESIDENTIAL UNITS EXCEPT CONDO AND SCHOOL BLOCKS SHOULD HAVE PRESSURE REDUCING VALVES.
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- INSULATION REQUIRED FOR WATERMAIN/WATER SERVICE WHERE THE SEPARATION BETWEEN WATERMAIN/WATER SERVICES AND OTHER SERVICES AND STRUCTURES IS LESS THAN 1.2m AND/OR THE COVER IS LESS THAN 1.7m (SEE REGION STANDARD RH 408.020).
- SUMP PUMPS SHALL OUTLET ONTO CONCRETE SPLASH PAD LOCATED IN THE REAR YARD.



NOT FOR CONSTRUCTION

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 REFERENCE No. 22-049, CAD FILE No.22049tp05, SURVEY
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LEGAL INFORMATION
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 FOR GARITO BARBUTO TOR PH 2 BLOCK 458, RECEIVED SEPTEMBER 11, 2024.
BENCHMARK (MINISTRY OF TRANSPORTATION)
 No. 00819828155 ELEVATION = 185.351m



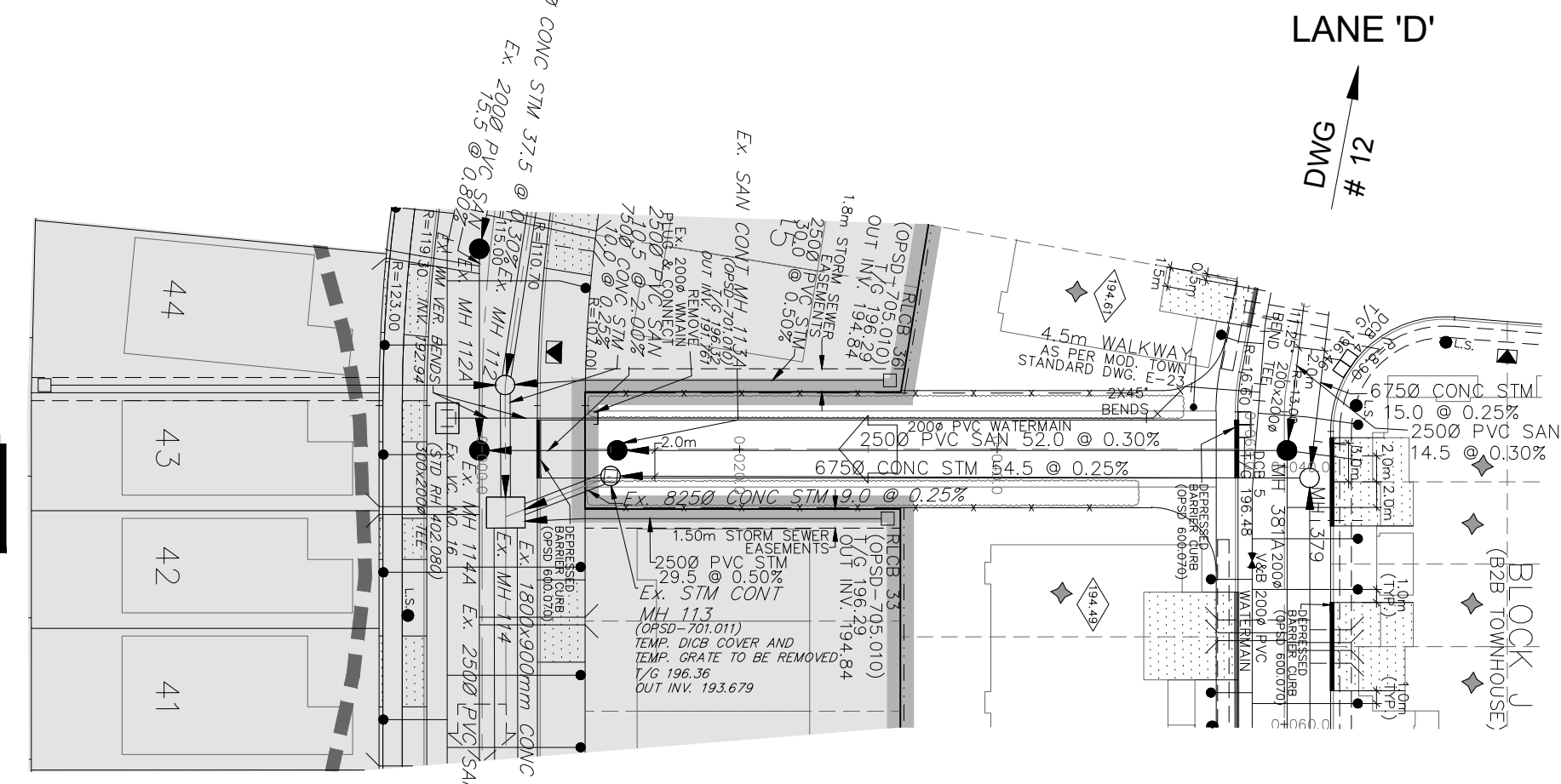
SANITARY INVERT	2008 PVC SAN 80.5 @ 1.00% SDR-35	2008 PVC SAN 12.0 @ 1.50% SDR-35	2008 PVC SAN 53.0 @ 1.20% SDR-35	3008 PVC SAN 13.5 @ 2.00% SDR-35	3008 PVC SAN 16.5 @ 0.50% SDR-35
STORM INVERT	3008 PVC STM 64.0 @ 0.50% SDR-35	4500 CONC STM 66.0 @ 0.60% 65-D			
PROPOSED GRADES	196.74	196.62	196.54	196.44	196.39
CENTERLINE CHAINAGE	0+100.000	0+120.000	0+140.000	0+160.000	0+170.459

2. 24-10-07 C.J.M. 2nd SUBMISSION 1. 24-04-05 C.J.M. 1st SUBMISSION		APPROVED
No. DATE BY DESCRIPTION		
SCALE: HORZ: 1:500 VERT: 1:50	REFERENCES	
APPROVALS		FIELD NOTES
MUNICIPAL APPROVAL		BELL <input type="checkbox"/> HYDRO <input type="checkbox"/> GAS <input type="checkbox"/> CABLE <input type="checkbox"/> TRAFFIC <input type="checkbox"/> WATER <input type="checkbox"/>
DEVELOPMENT SERVICES DATE		STAMP
REGIONAL APPROVAL DESIGN OF SANITARY, WATER SERVICES AND REGIONAL ROAD WORKS APPROVED SUBJECT TO DETAIL CONSTRUCTION CONFORMING TO HALTON REGION STANDARDS & SPECIFICATIONS & LOCAL APPROVAL FROM AREA MUNICIPALITY		
LEGISLATIVE AND PLANNING SERVICES DATE		
		600 Alden Road, Suite 606 Markham, Ontario, L3R 0E7 Tel: (905) 475-3080 Fax: (905) 475-3081 www.DSEL.ca
TOWN OF MILTON DEVELOPMENT SERVICES		TOWN OF MILTON FILE No: XXXXXXX
The Regional Municipality of Halton		REGION OF HALTON FILE No: XXXXXXX
DEVELOPER MATTAMY (BROWNBRIDGE) LIMITED		
DEVELOPMENT MANAGER 		PROJECT TOR SUBNODE SITEPLAN
TITLE LANE 'D' © DSEL		
STA. 0+90.000 TO STA. 0+207.080		
DRAWN BY: H.P. DESIGNED BY: H.C. PROJECT NO. 24-1377		CHECKED BY: E.G. CHECKED BY: C.J.M. SHEET 13 OF 18

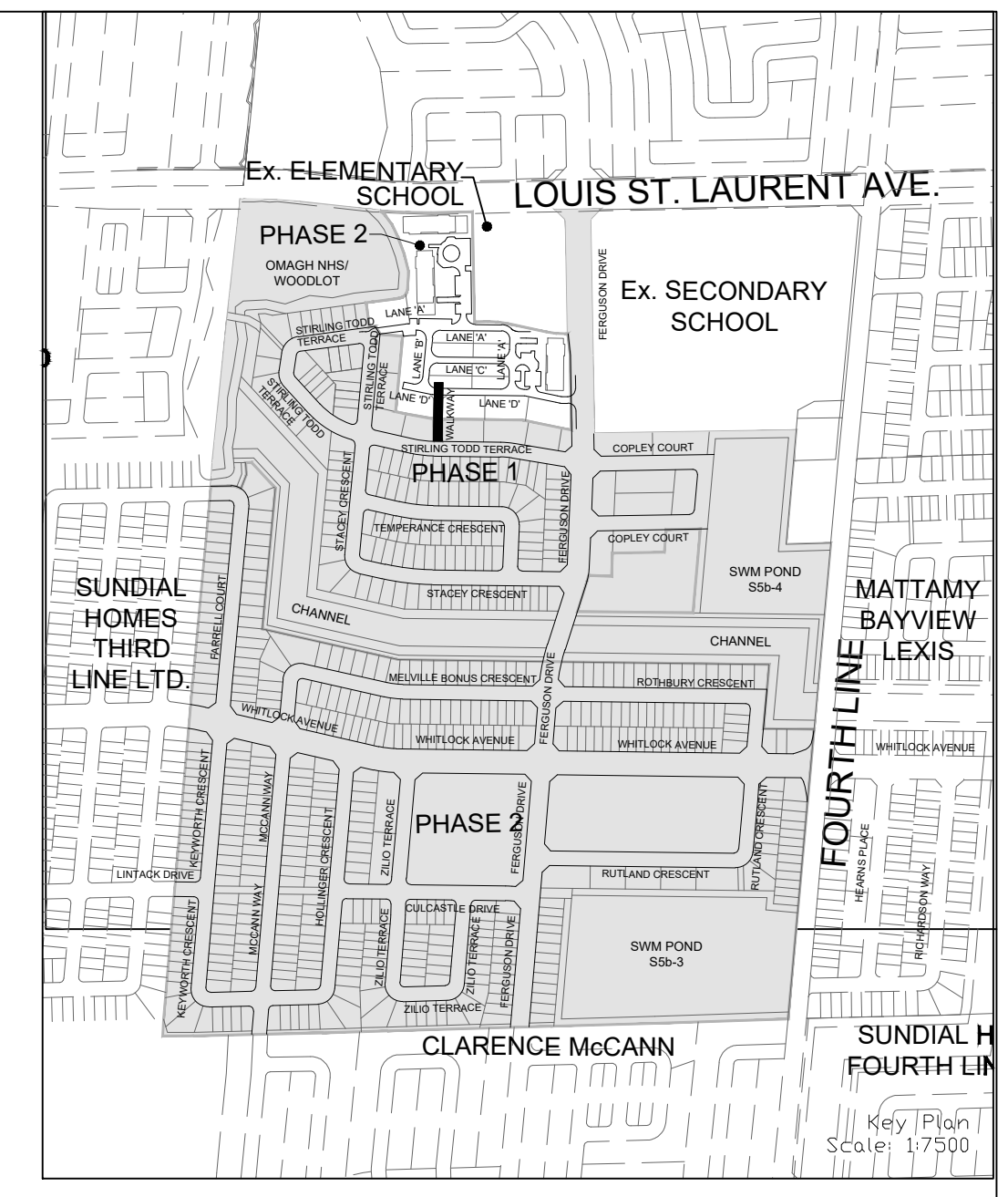
NOTES:

- ALL EXISTING BUILDINGS, POST & WIRE FENCE, TREES, UTILITY POLES, CULVERTS AND RETAINING WALLS, ETC. WITHIN LOTS AND BLOCKS TO BE REMOVED, UNLESS OTHERWISE NOTED
- EXISTING MH AND CB COVERS, WATER V&Bs, WATER V&Cs AND UTILITY PEDESTALS ETC. TO BE ADJUSTED WITHIN NEW ROADWAYS AND BOULEVARDS, WHERE APPLICABLE
- CONTRACTOR TO VERIFY THE PRECISE LOCATIONS AND INVERT ELEVATIONS OF EX. UNDERGROUND SERVICES AND EX. UTILITIES PRIOR TO STARTING CONSTRUCTION
- ANY DISTURBED AREA DURING CONSTRUCTION TO BE RESTORED TO THE ORIGINAL CONDITION OR BETTER TO THE SATISFACTION OF THE AUTHORITIES HAVING JURISDICTION
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- WORKS WITHIN THE CH REGULATION LIMIT WILL REQUIRE A PERMIT FROM CONSERVATION HALTON UNDER ONTARIO REGULATION 162/06
- ALL DWELLINGS WITH THE EXCEPTION OF SLAB-ON-GRADE UNITS, SHALL BE PROVIDED WITH SUMP PUMPS IN ACCORDANCE WITH SECTION 11.27.1, STD DWG. E-25, TO THE SATISFACTION OF THE TOWN OF MILTON
- ALL RESIDENTIAL UNITS EXCEPT CONDO AND SCHOOL BLOCKS SHOULD HAVE PRESSURE REDUCING VALVES
- THE LOCATIONS OF ANTI-SEEPAGE COLLARS SHALL BE DETERMINED BY THE PROJECT GEOTECHNICAL ENGINEER DURING SEWER CONSTRUCTION ON THE SITE
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- INSULATION REQUIRED FOR WATERMAIN/WATER SERVICE WHERE THE SEPARATION BETWEEN WATERMAIN/WATER SERVICES AND OTHER SERVICES AND STRUCTURES IS LESS THAN 1.2m AND/OR THE COVER IS LESS THAN 1.7m (SEE REGION STANDARD RH 408.020)
- SUMP PUMPS SHALL OUTLET ONTO CONCRETE SPLASH PAD LOCATED IN THE REAR YARD.

MATTAMY TOR PHASE 1
REFER TO
DAVID SCHAEFFER ENGINEERING LIMITED
PROJECT No. 22-1333



- LEGEND**
- STORM MANHOLE
 - CATCHBASIN MANHOLE
 - SANITARY MANHOLE
 - SANITARY MANHOLE BY OTHERS
 - STORM MANHOLE BY OTHERS
 - PAIRED SINGLE SANITARY HOUSE CONNECTION
 - SINGLE SANITARY HOUSE CONNECTION
 - SINGLE STORM HOUSE CONNECTION
 - WATER CONNECTION
 - HYDRANT
 - TEE
 - CURB STOP SERVICE VALVE & BOX
 - VALVE & CHAMBER
 - HYDRO TRANSFORMER
 - LIGHT STANDARD
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 - ACOUSTIC FENCE (TOWN STD. NO. E29)
 - 1.5m HIGH CHAIN LINK FENCE (TOWN STD. NO. E27)
 - 1.8m PRIVACY FENCE (TOWN STD. NO. E28)
 - TEMPORARY PROTECTION FENCE (TOWN STD. NO. P-3)
 - PROPOSED OVERLAND FLOW
 - EXTERNAL OVERLAND FLOW
 - CH APPROX. REGULATION LIMIT PHASE LINE
 - OTHER PHASES



NOT FOR CONSTRUCTION

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TOPOGRAPHIC INFORMATION PROVIDED BY R-PE SURVEYING LTD., REFERENCE No. 22-049, CAD FILE No.22049ip05, SURVEY RECEIVED FEBRUARY 16, 2023.

LEGAL INFORMATION
SITE PLAN PROVIDED BY KNYMH INC., PROJECT NUMBER 21407, FOR GARITO BARBUTO TOR PH 2 BLOCK 458, RECEIVED SEPTEMBER 11, 2024.

BENCHMARK (MINISTRY OF TRANSPORTATION)
No. 00819828155 ELEVATION = 185.351m

No.	DATE	BY	DESCRIPTION	APPROVED
2	24-10-07	C.J.M.	2nd SUBMISSION	
1	24-04-05	C.J.M.	1st SUBMISSION	

SCALE: HORZ 1:500 VERT 1:50

REFERENCES

APPROVALS

MUNICIPAL APPROVAL

DEVELOPMENT SERVICES

REGIONAL APPROVAL

DESIGN OF SANITARY, WATER SERVICES AND REGIONAL ROAD WORKS APPROVED SUBJECT TO DETAIL CONSTRUCTION CONFORMING TO HALTON REGION STANDARDS & SPECIFICATIONS & LOCAL APPROVAL FROM AREA MUNICIPALITY

LEGISLATIVE AND PLANNING SERVICES

600 Alden Road, Suite 606
Markham, Ontario, L3R 0E7
Tel: (905) 475-3080
Fax: (905) 475-3081
www.DSEL.ca

TOWN OF MILTON DEVELOPMENT SERVICES

The Regional Municipality of Halton

DEVELOPER: MATTAMY (BROWNBRIDGE) LIMITED

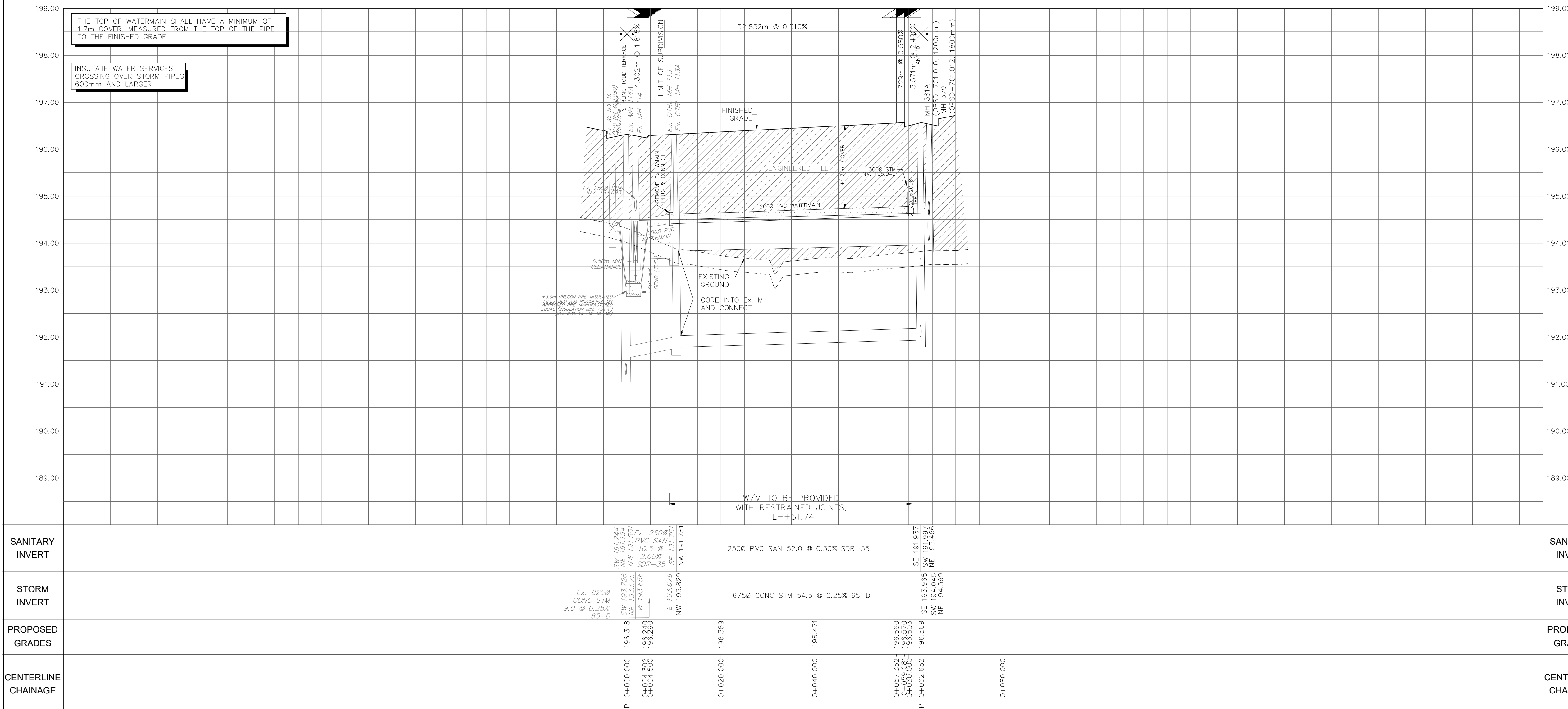
DEVELOPMENT MANAGER: mattamy HOMES

PROJECT: TOR SUBNODE SITEPLAN

TITLE: WALKWAY © DSEL

STA. 0+000.000 TO STA. 0+723.319

DRAWN BY: H.P. CHECKED BY: E.G.
DESIGNED BY: H.C. CHECKED BY: C.J.M.
PROJECT NO. 24-1377 SHEET 14 OF 18

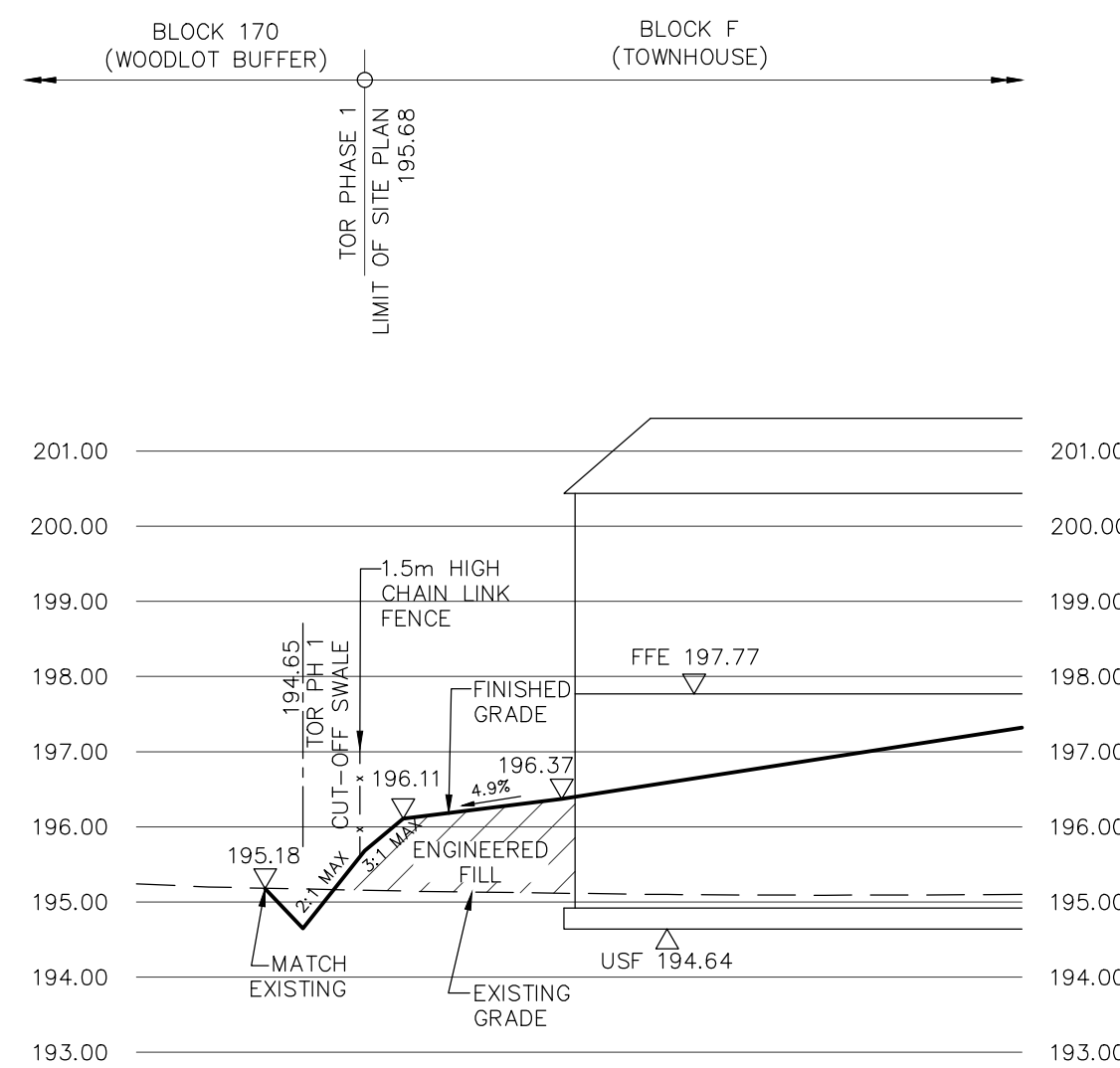


THE TOP OF WATERMAIN SHALL HAVE A MINIMUM OF 1.7m COVER, MEASURED FROM THE TOP OF THE PIPE TO THE FINISHED GRADE.

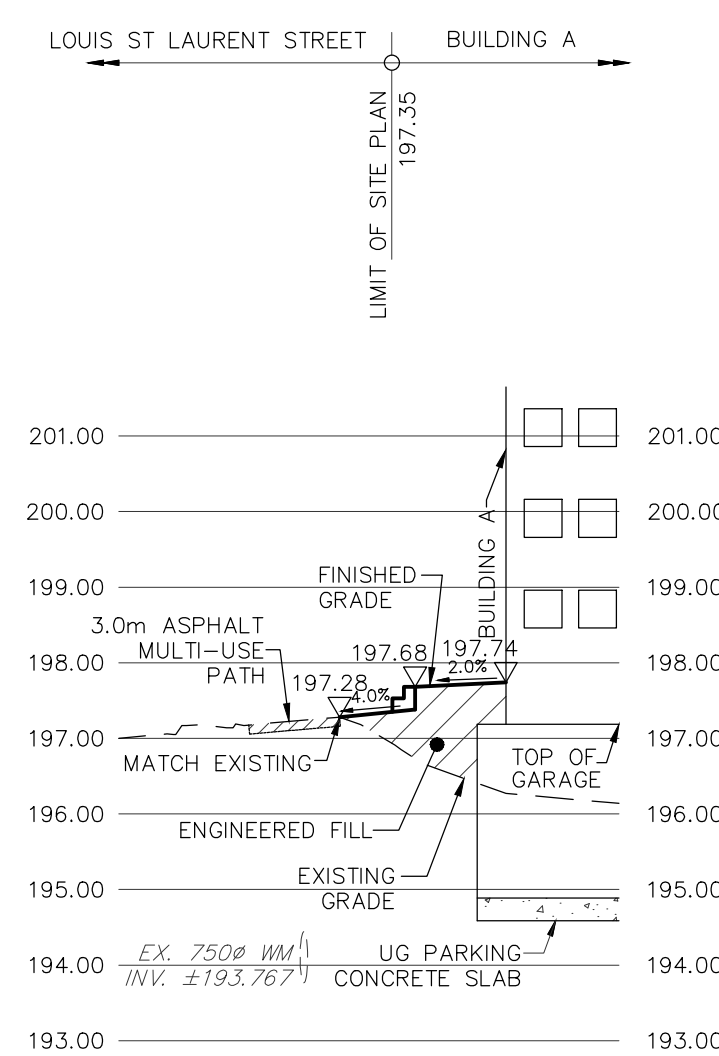
INSULATE WATER SERVICES CROSSING OVER STORM PIPES 600mm AND LARGER

W/M TO BE PROVIDED WITH RESTRAINED JOINTS, L=±51.74

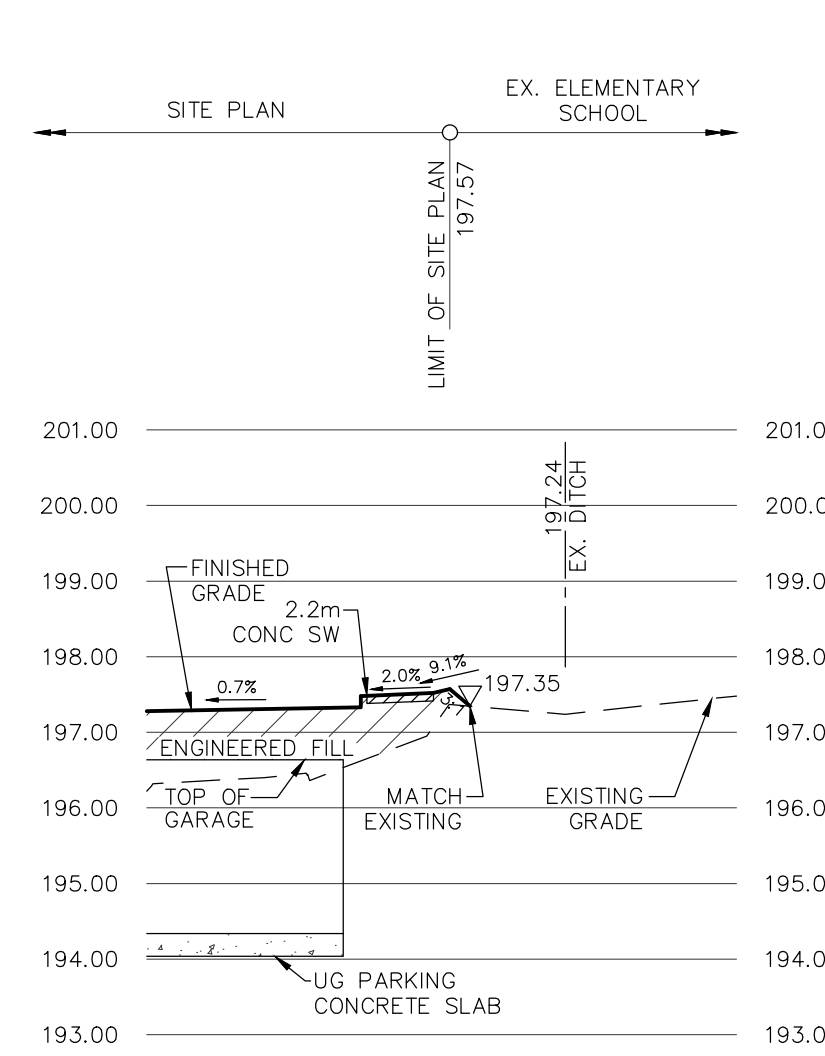
STATION	PROPOSED GRADES	CENTERLINE CHAINAGE
PI 0+000.000	196.318	0+000.000
0+020.000	196.369	0+020.000
0+040.000	196.471	0+040.000
0+057.352	196.560	0+057.352
0+062.652	196.569	0+062.652
PI 0+080.000	194.599	0+080.000



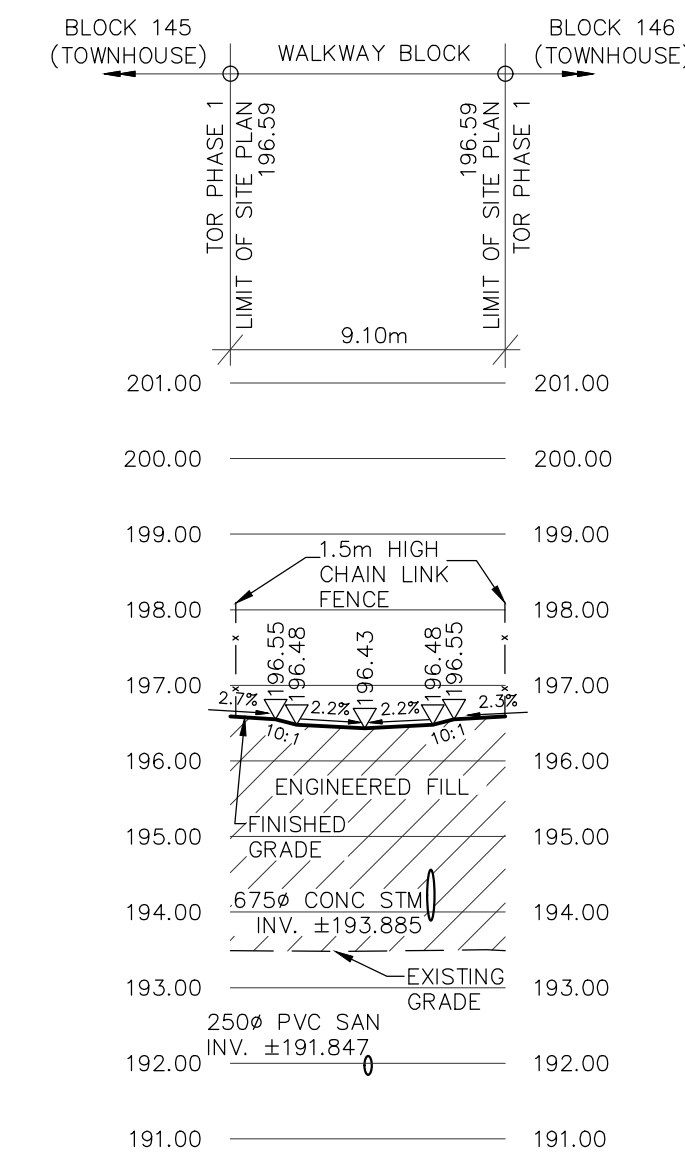
SECTION 1-1
(SEE DWG. 3)
SCALE HOR. 1:250
VER. 1:100



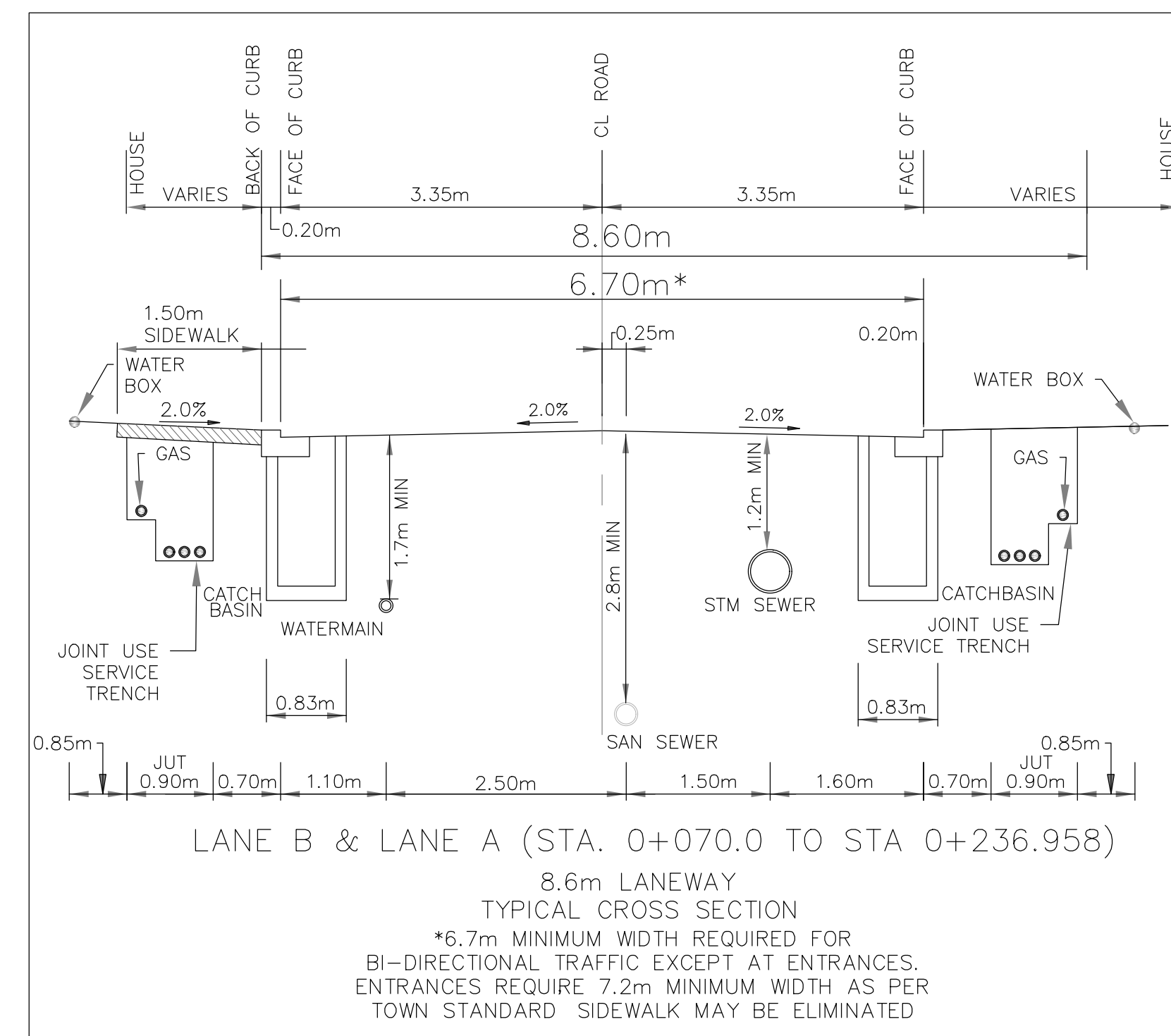
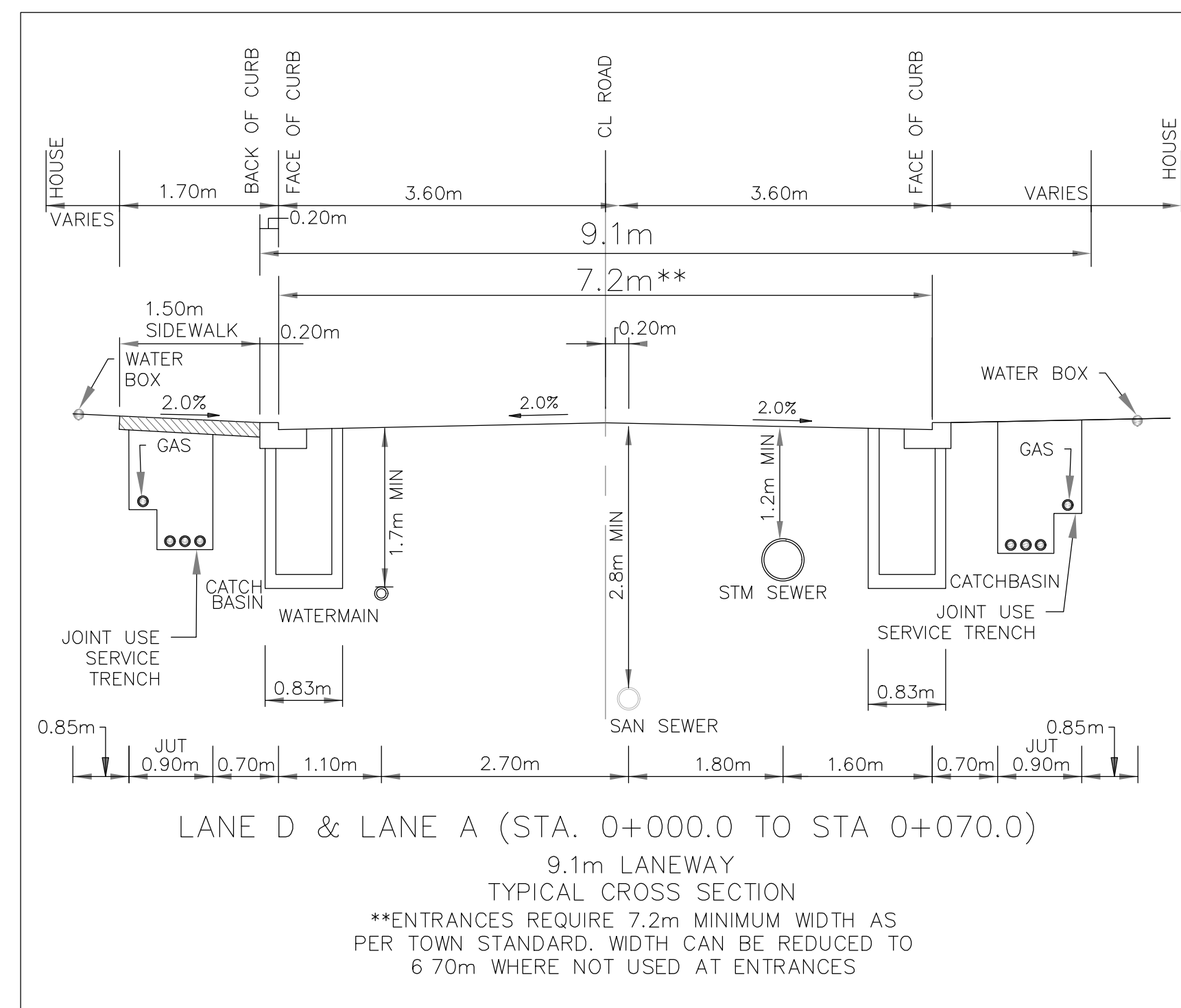
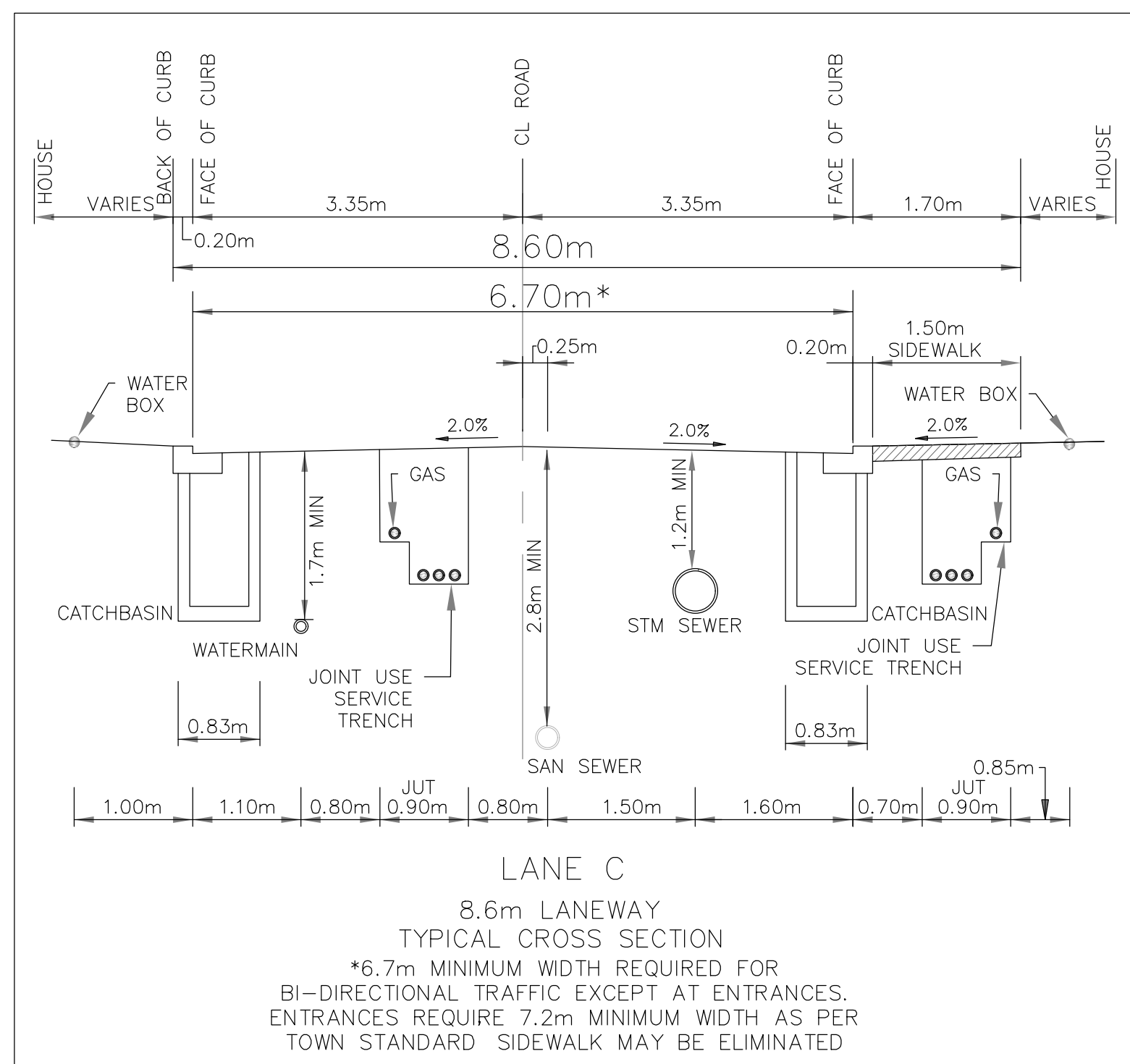
SECTION 2-2
(SEE DWG. 3)
SCALE HOR. 1:250
VER. 1:100



SECTION 3-3
(SEE DWG. 3)
SCALE HOR. 1:250
VER. 1:100



SECTION 4-4
(SEE DWG. 3)
SCALE HOR. 1:250
VER. 1:100



NOT FOR CONSTRUCTION

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REFERENCE No. 22-049, CAD FILE No.22049tp05, SURVEY
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No. 00819828155 ELEVATION = 185.351m

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2	24-10-07	C.J.M.	2nd SUBMISSION	
1	24-04-05	C.J.M.	1st SUBMISSION	

SCALE: NTS	REFERENCES
APPROVALS	
MUNICIPAL APPROVAL	FIELD NOTES
DEVELOPMENT SERVICES _____ DATE _____	BELL <input type="checkbox"/> HYDRO <input type="checkbox"/>
	GAS <input type="checkbox"/> CABLE <input type="checkbox"/>
	TRAFFIC <input type="checkbox"/> WATER <input type="checkbox"/>
REGIONAL APPROVAL	STAMP
DESIGN OF SANITARY, WATER SERVICES AND REGIONAL ROAD WORKS APPROVED SUBJECT TO DETAIL CONSTRUCTION CONFORMING TO HALTON REGION STANDARDS & SPECIFICATIONS & LOCALATIONAL APPROVAL FROM AREA MUNICIPALITY	
LEGISLATIVE AND PLANNING SERVICES _____ DATE _____	

DSEL
600 Alden Road, Suite 606
Markham, Ontario, L3R 0E7
Tel: (905) 475-3080
Fax: (905) 475-3081
www.DSEL.ca

MILTON TOWN OF MILTON
DEVELOPMENT SERVICES
TOWN OF MILTON
FILE No: XXXXXXX

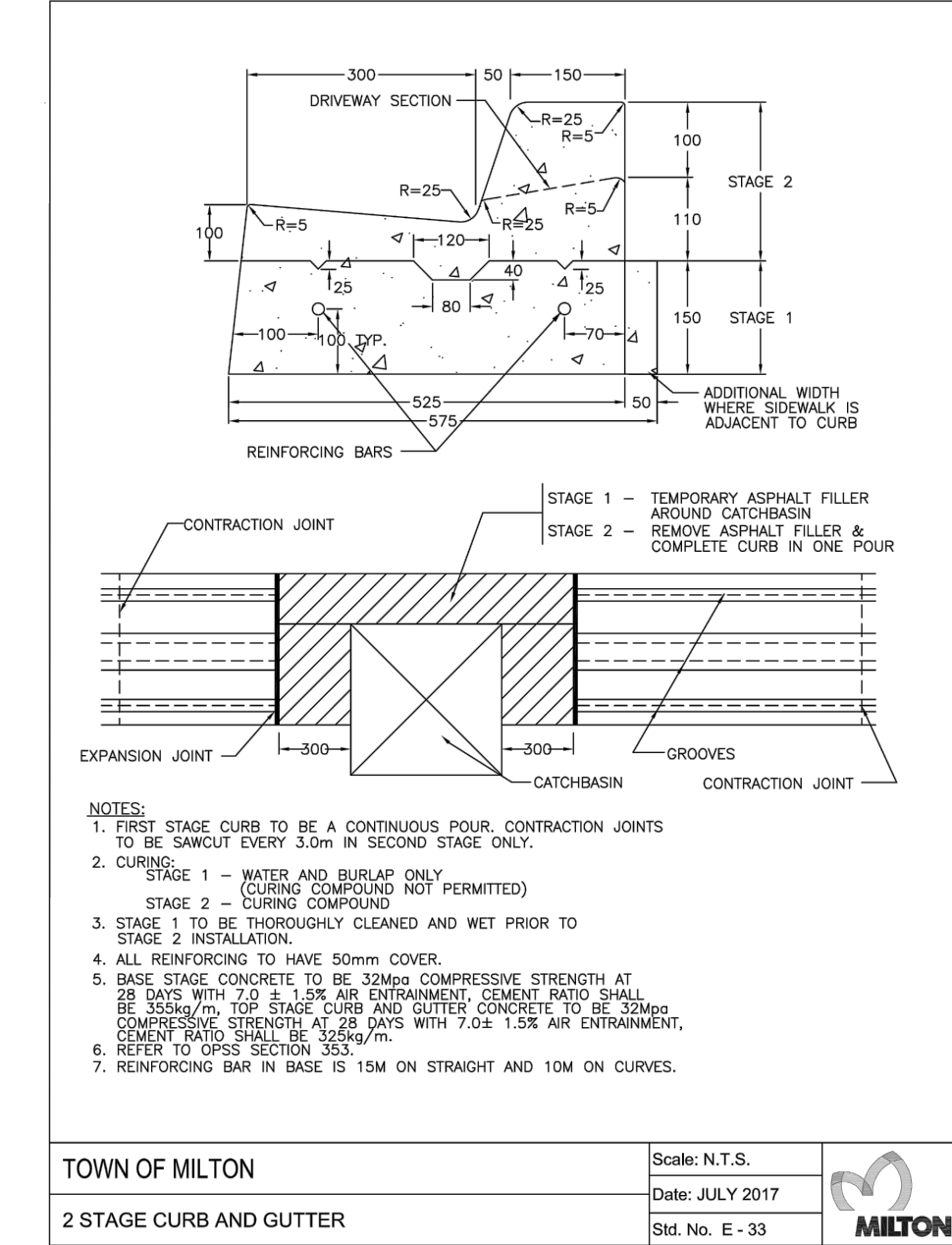
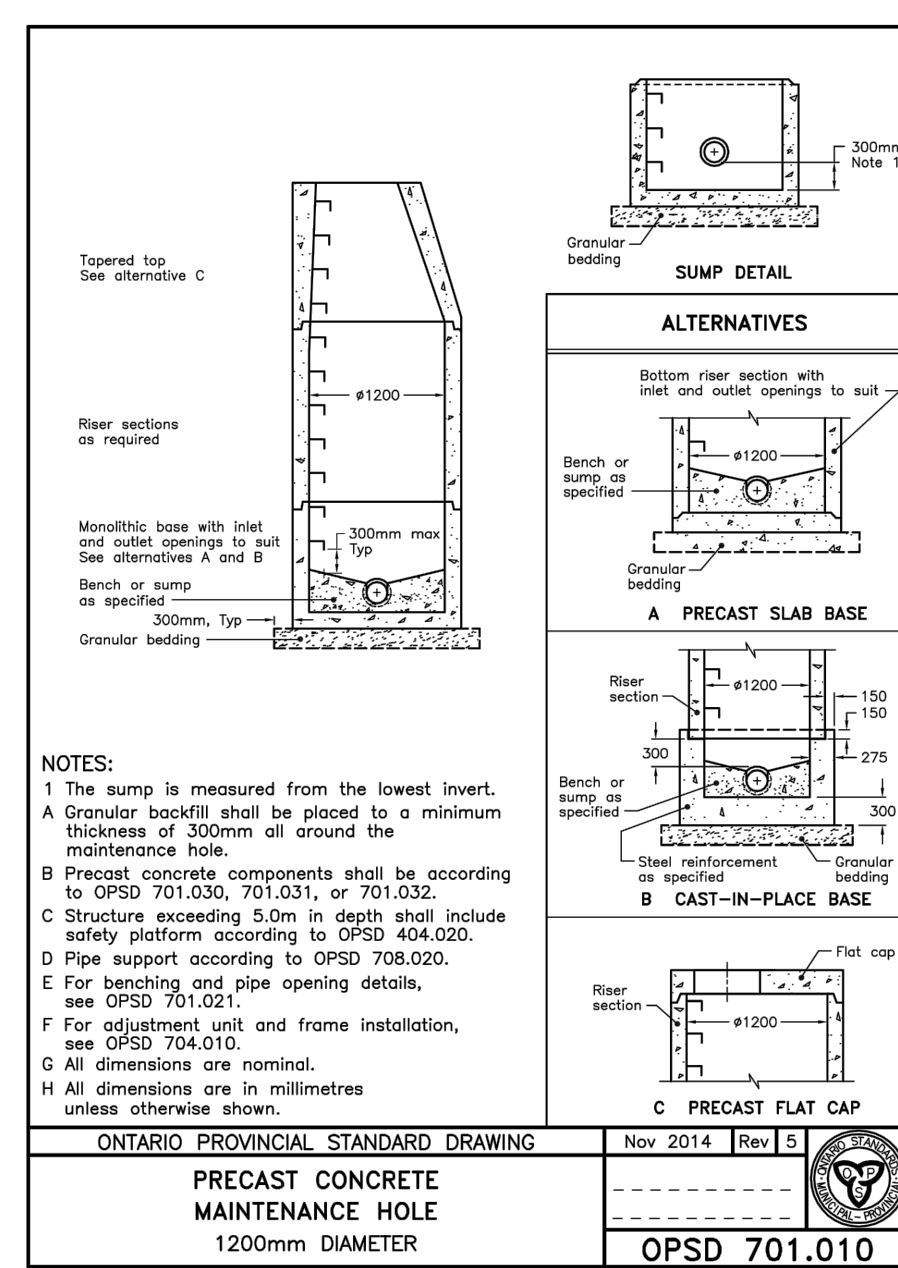
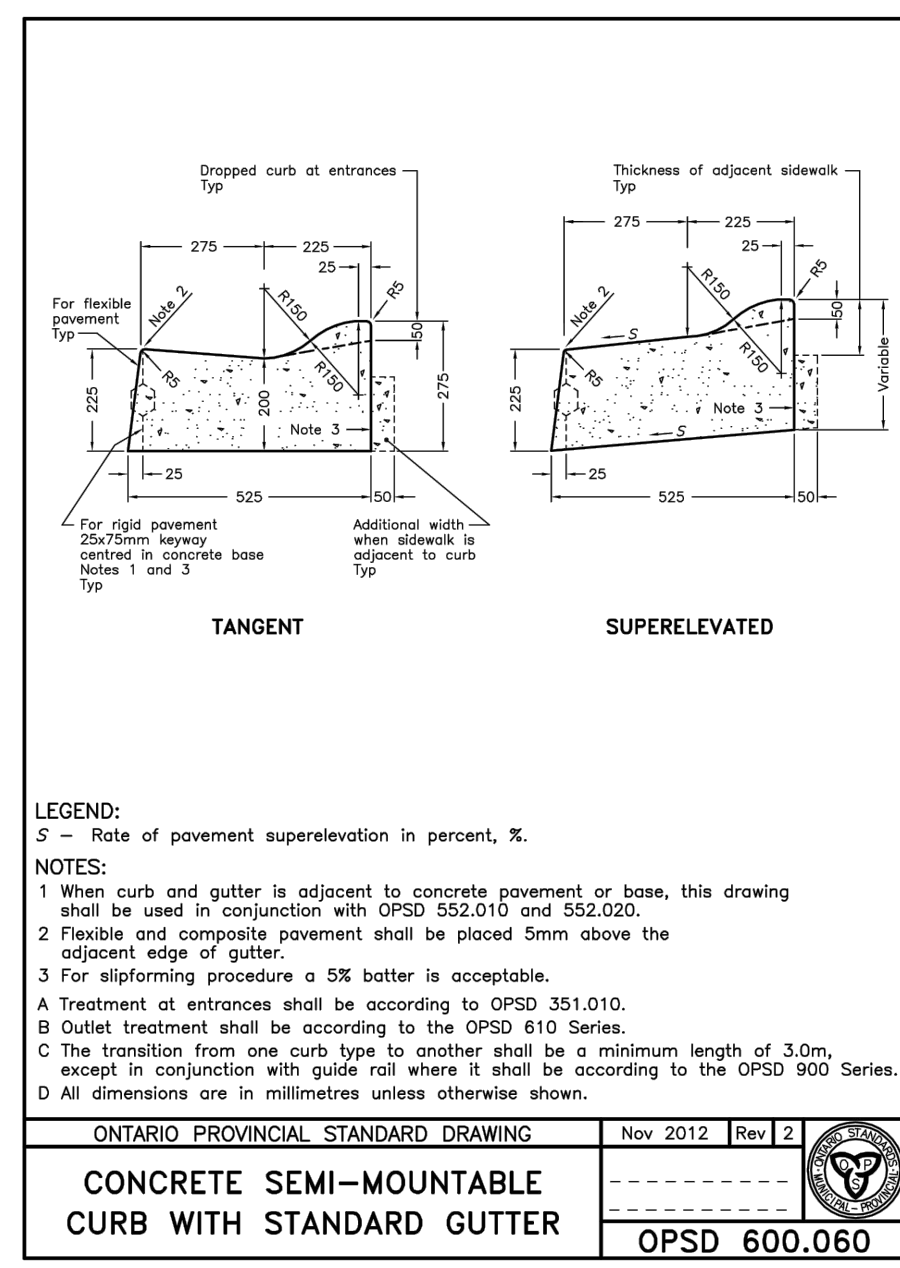
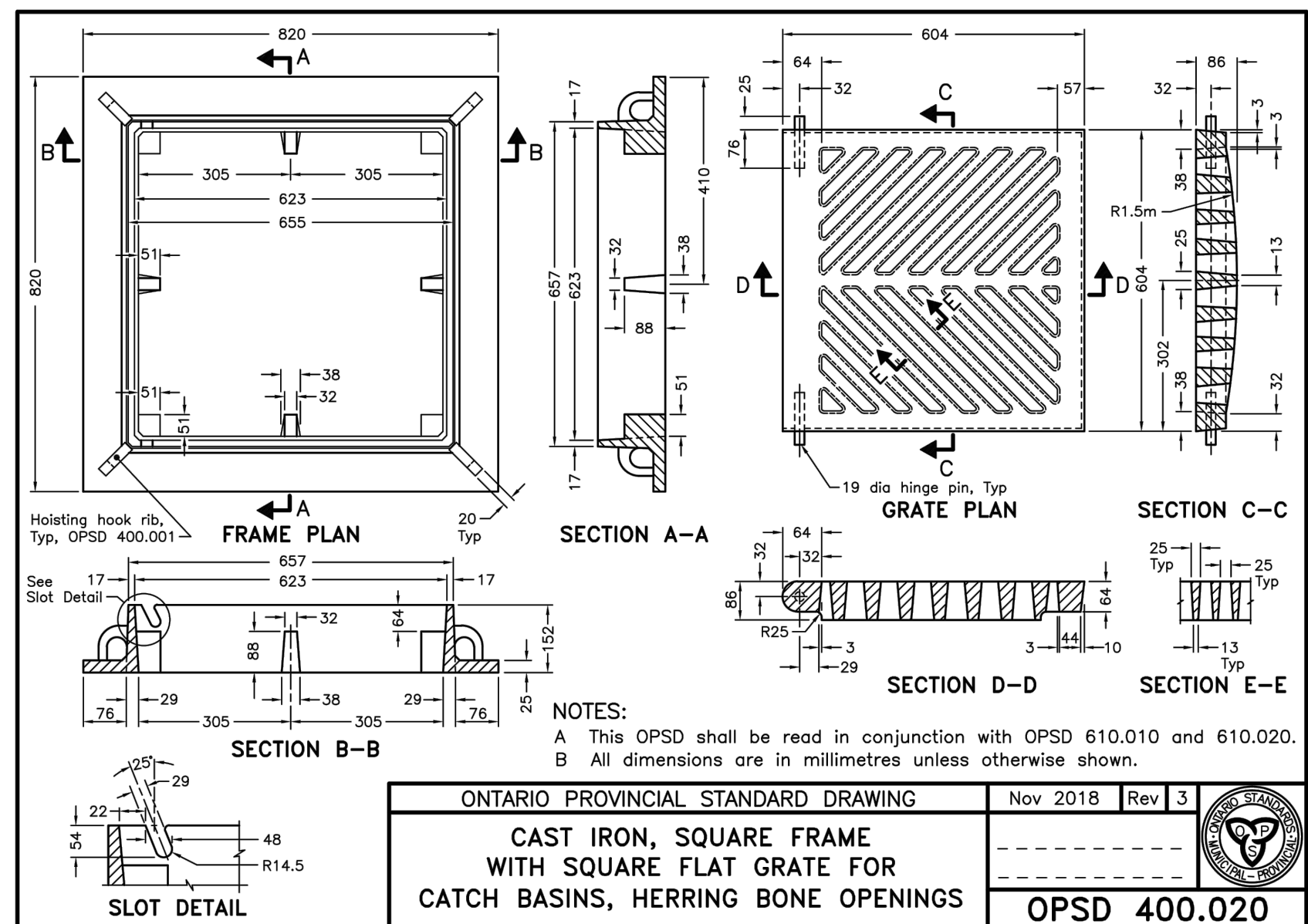
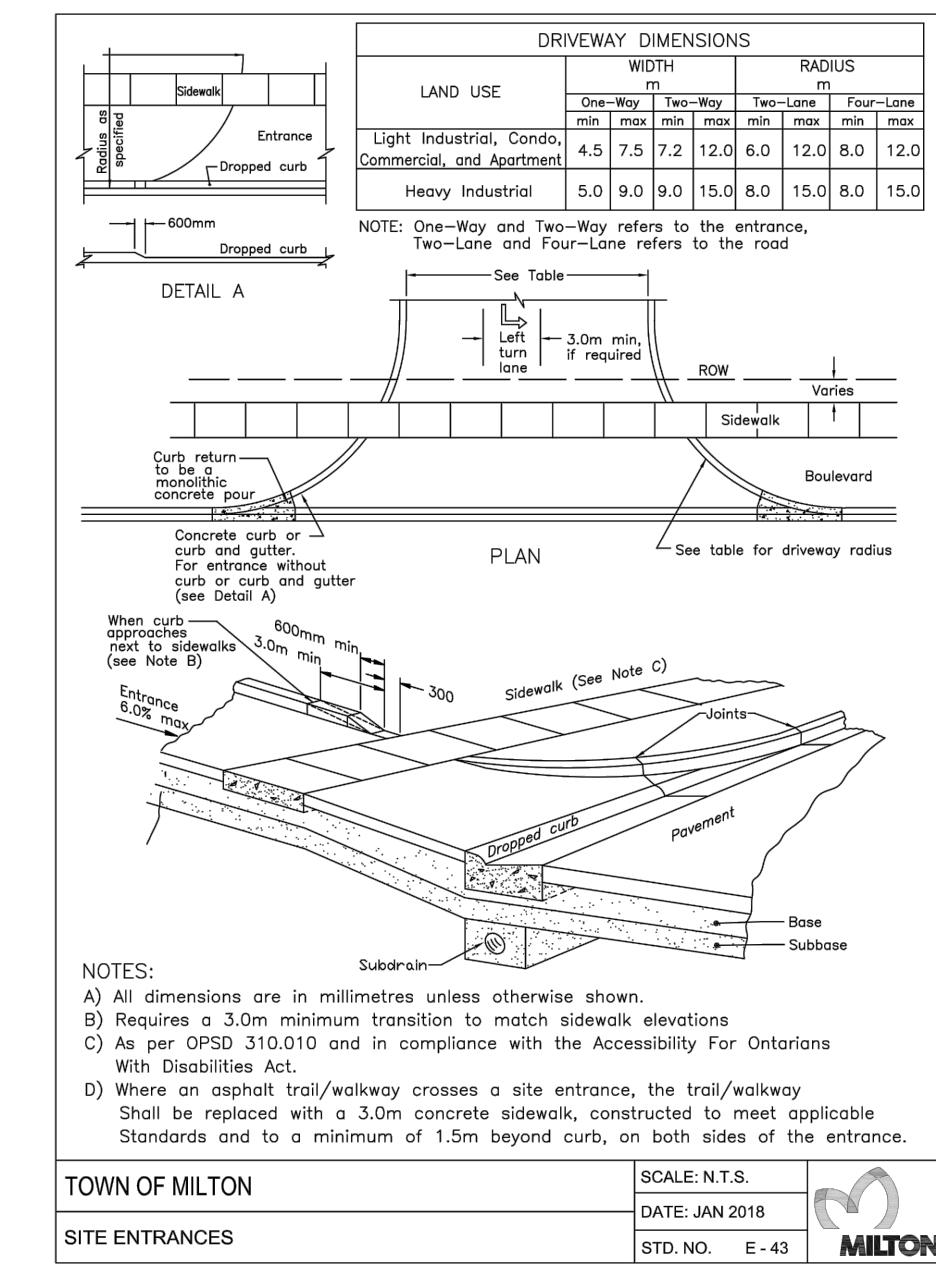
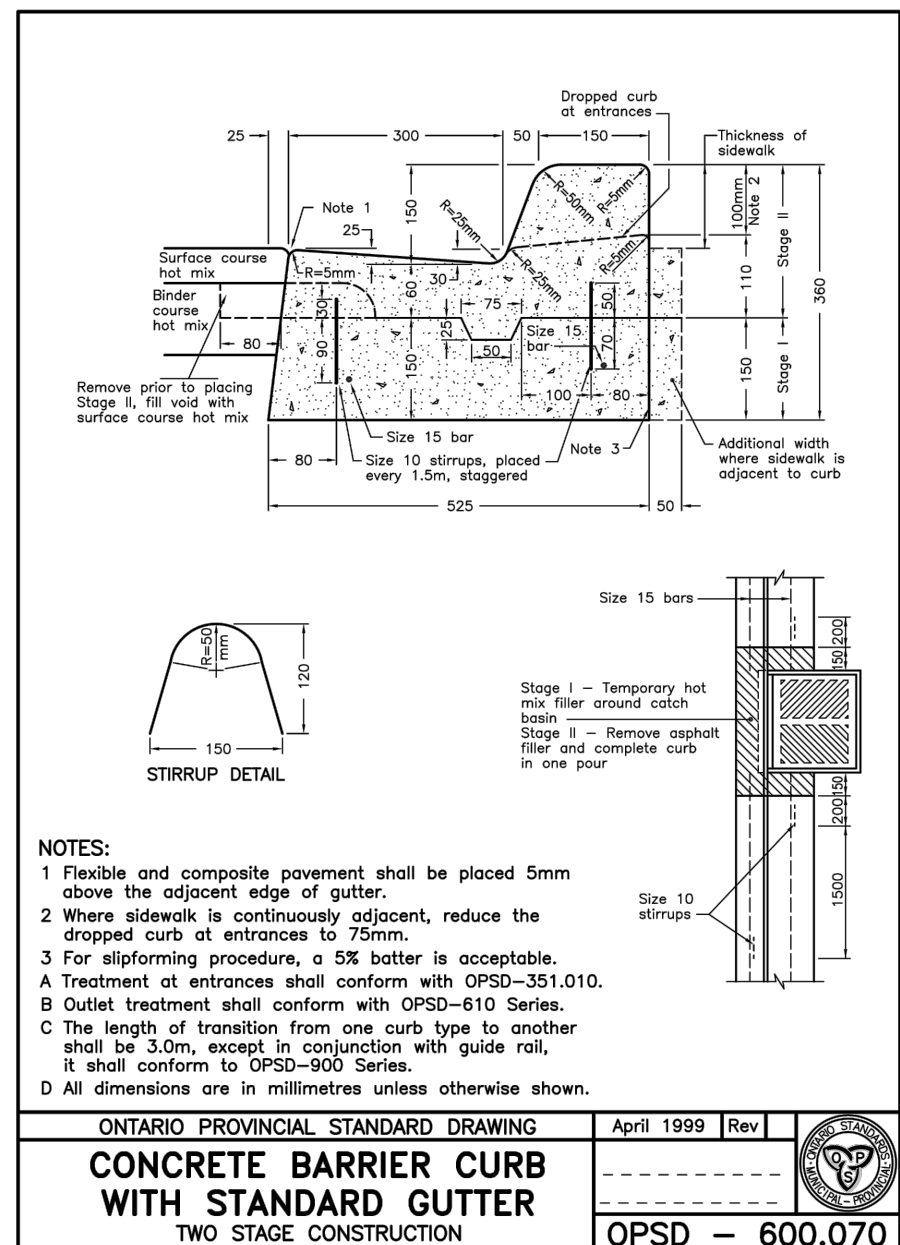
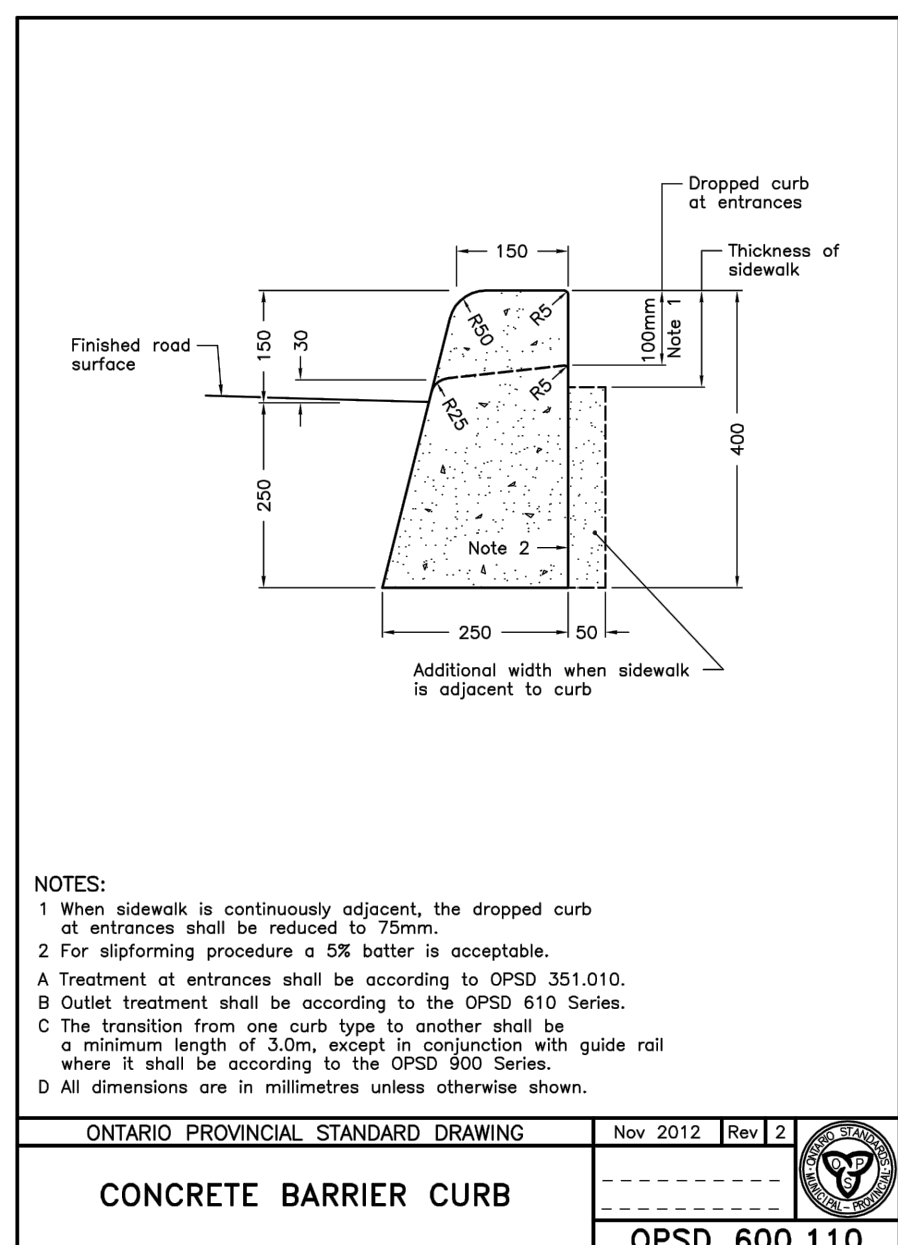
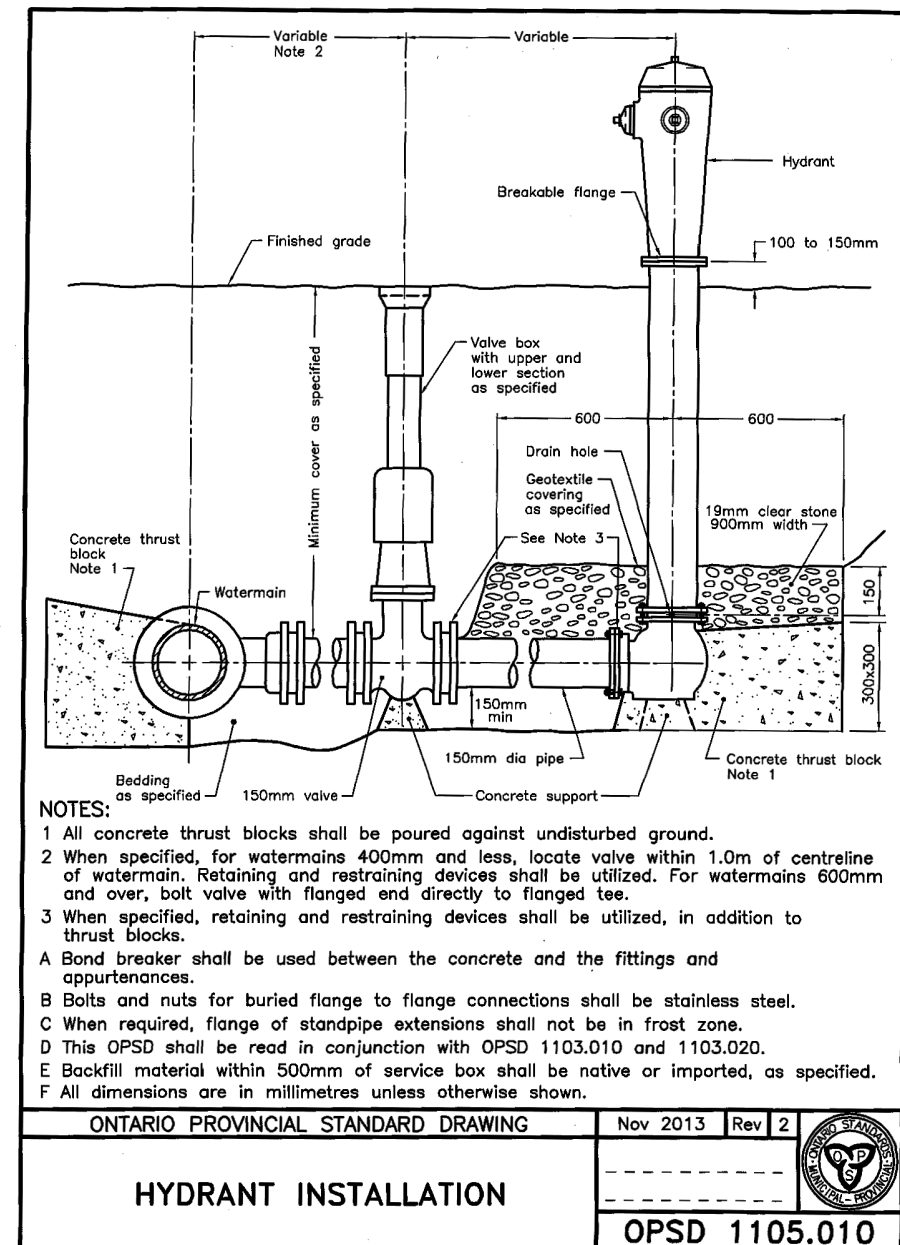
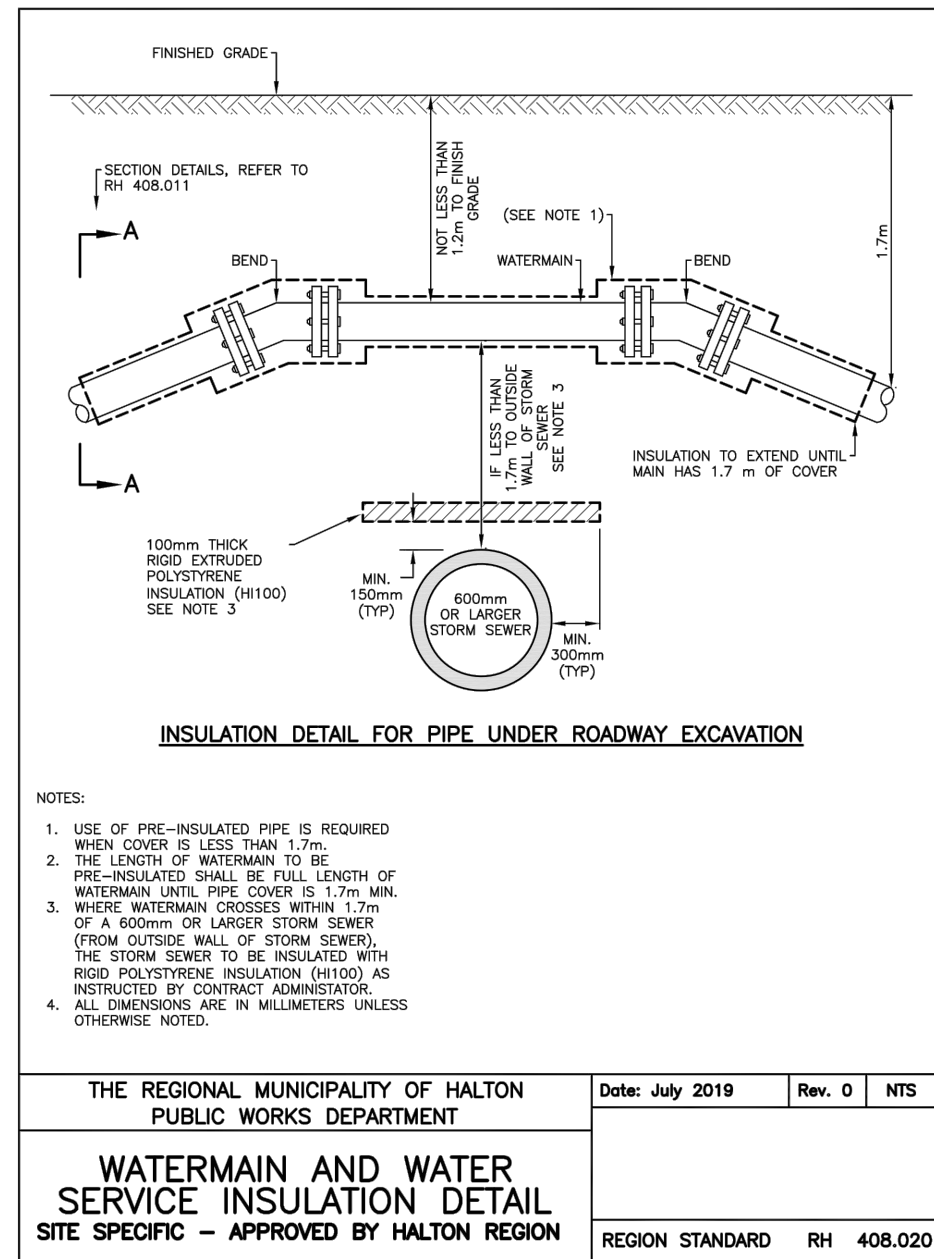
Halton REGION
The Regional Municipality of Halton
REGION OF HALTON
FILE No: XXXXXXX

DEVELOPER
MATTAMY (BROWNBRIDGE) LIMITED

DEVELOPMENT MANAGER PROJECT
mattamy TOR SUBNODE SITEPLAN

TITLE
STANDARD ROADWAY SECTIONS & CROSS SECTIONS © DSEL

DRAWN BY: H.P.	CHECKED BY: E.G.
DESIGNED BY: H.C.	CHECKED BY: C.J.M.
PROJECT NO. 24-1377	SHEET 15 OF 18



CB No.	FRAME ELEV	INVERT ELEV	CB LEAD			LEAD INV @ MAIN/MH
			LENGTH	SIZE (mm)	SLOPE (%)	
DCB 1	196.32	194.82	2	300	1	194.80
DCB 2	196.32	194.82	4.5	300	1	194.78
DCB 3	196.48	194.98	7.5	300	1	194.91
DCB 4	196.46	194.96	1.5	300	1	194.95
DCB 5	196.48	194.98	4	300	1	194.94
DCB 6	196.52	195.02	4	300	1	194.98
DCB 7	196.52	195.02	3.5	300	1	194.99
DCB 8	196.52	195.02	3	300	1	194.99
DCB 9	196.52	195.02	4	300	1	194.98
DCB 12	196.46	194.96	3.5	300	1	194.93
DCB 13	196.45	194.95	2	300	1	194.93
DCB 14	196.89	195.39	3.5	300	1	195.36
CB 1	196.85	195.40	8.5	250	1	195.32
CB 15	196.97	195.52	17	250	1	195.35
CB 16	196.97	195.52	16	250	1	195.36

NOT FOR CONSTRUCTION

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LEGAL INFORMATION
SITE PLAN PROVIDED BY KNYMH INC., PROJECT NUMBER 21407,
FOR GARITO BARBUTO TOR PH 2 BLOCK 458, RECEIVED SEPTEMBER 11, 2024.

BENCHMARK (MINISTRY OF TRANSPORTATION)
No. 00819828155 ELEVATION = 185.351m

No.	DATE	BY	DESCRIPTION	APPROVED
2	24-10-07	C.J.M.	2nd SUBMISSION	
1	24-04-05	C.J.M.	1st SUBMISSION	

SCALE: NTS

APPROVALS

MUNICIPAL APPROVAL

DEVELOPMENT SERVICES

REGIONAL APPROVAL

DESIGN OF SANITARY, WATER SERVICES AND REGIONAL ROAD WORKS APPROVED SUBJECT TO DETAIL CONSTRUCTION CONFORMING TO HALTON REGION STANDARDS & SPECIFICATIONS & LOCAL APPROVAL FROM AREA MUNICIPALITY

LEGISLATIVE AND PLANNING SERVICES

REFERENCES

FIELD NOTES

BELL HYDRO

GAS CABLE

TRAFFIC WATER

STAMP

LICENSED PROFESSIONAL ENGINEER
C. J. MANZO
100511578
24-10-07
PROVINCE OF ONTARIO

DSEL 600 Alden Road, Suite 606
Markham, Ontario, L3R 0E7
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MILTON TOWN OF MILTON DEVELOPMENT SERVICES TOWN OF MILTON FILE NO: XXXXXXX

Halton The Regional Municipality of Halton REGION OF HALTON FILE NO: XXXXXXX

DEVELOPER: **MATTAMY (BROWNIDGE) LIMITED**

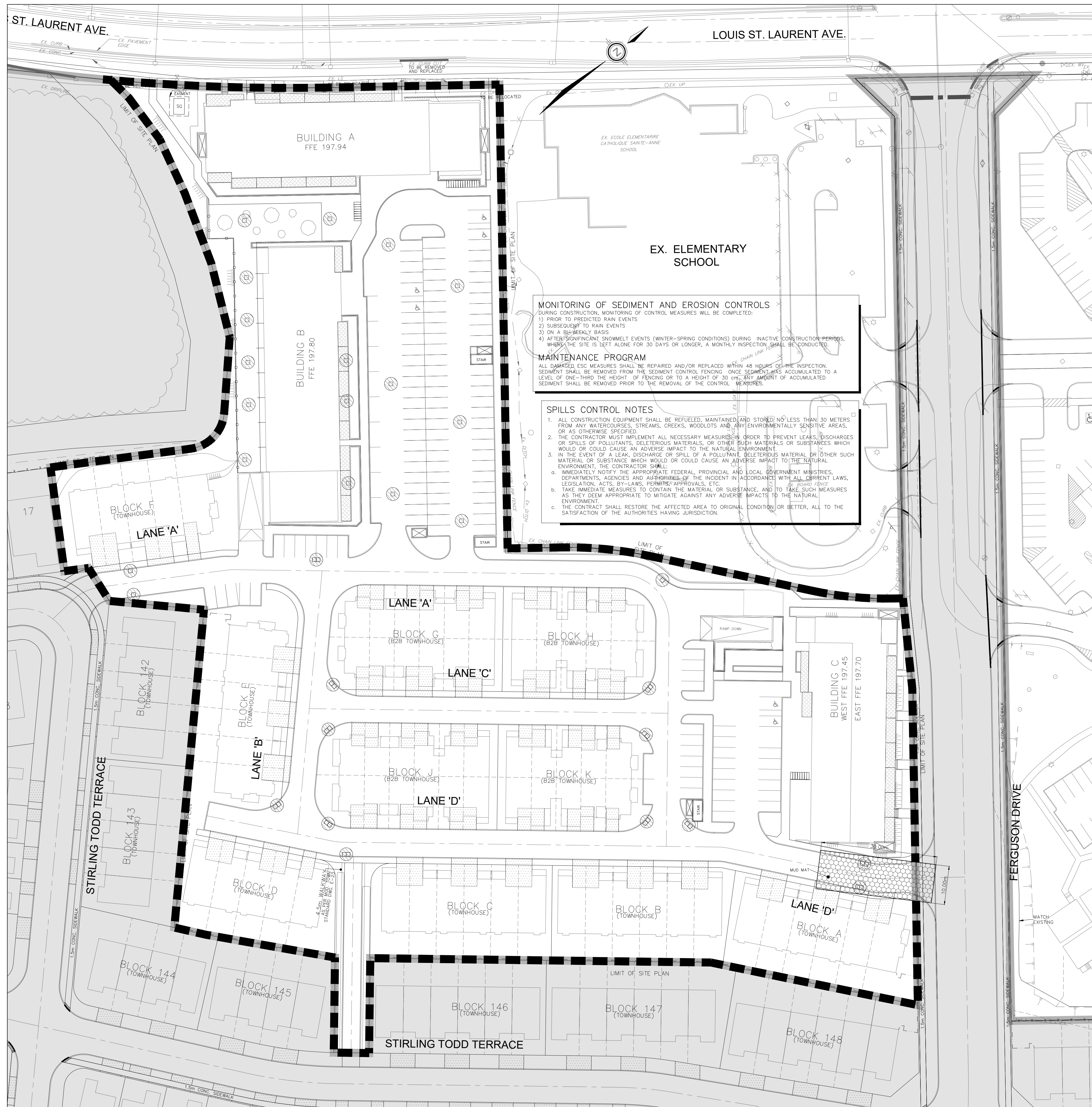
DEVELOPMENT MANAGER: **mattamy** PROJECT: **TOR SUBNODE SITEPLAN**

TITLE: **DETAILS AND TABLES** © DSEL

DRAWN BY: H.P. CHECKED BY: E.G.

DESIGNED BY: H.C. CHECKED BY: C.J.M.

PROJECT NO. **24-1377** SHEET **16** OF **18**



NOTE:
EXISTING WATERMAIN STUBS WILL REQUIRE SWABBING, FLUSHING AND SAMPLING WORK TO BE COMPLETED BY REGION OF HALTON STAFF AT THE DEVELOPER'S EXPENSE.

NOTE:
SERVING AND GRADING DESIGN FOR FUTURE LOTS LANDS SHOWN ON THE DRAWINGS ARE CONCEPTUAL, WHICH ARE TO BE FURTHER REVIEWED / FINALIZED UPON FUTURE DEVELOPMENT

ANY AREAS DISTURBED DURING CONSTRUCTION TO BE RESTORED TO THE ORIGINAL CONDITION OR BETTER TO THE SATISFACTION OF THE AUTHORITIES HAVING JURISDICTION

CONTRACTOR TO VERIFY THE PRECISE LOCATIONS AND INVERT ELEVATIONS OF EX. UNDERGROUND SERVICES AND EX. UTILITIES PRIOR TO STARTING CONSTRUCTION

WRITTEN PERMISSION REQUIRED FOR WORK ON ADJACENT LANDS

NOTE:
ALL EXISTING BUILDINGS, BARN, POST & WIRE FENCES, TREES, UTILITY WIRES, POLES AND CULVERTS WITHIN LOTS AND BLOCKS TO BE REMOVED, UNLESS OTHERWISE NOTED

NOTE:
INSULATION REQUIRED FOR WATERMAIN / WATER SERVICES WHERE THE SEPARATION BETWEEN WATERMAIN / WATER SERVICES AND OTHER SERVICES AND STRUCTURES IS LESS THAN 1.2m AND THE COVER IS LESS THAN 1.7m. (SEE REGION STANDARD #4-408.010)

NOTE:
BARRICADES AND SIGNAGE TO BE REMOVED ONLY AFTER WRITTEN DIRECTION IS PROVIDED BY THE TOWN OF MILTON ENGINEERING DEPT.

NOTE:
FOR DETAIL NOTES, REFER TO DRAWING No. 1

THIS PLAN IS INTENDED TO ASSIST THE CONTRACTOR IN THE LAYOUT AND CONSTRUCTION OF THE SILTATION CONTROL FEATURES ONLY. THIS DRAWING SHALL NOT BE USED FOR CONSTRUCTION OF SITE SERVICES.

MONITORING OF SEDIMENT AND EROSION CONTROLS
DURING CONSTRUCTION, MONITORING OF CONTROL MEASURES WILL BE COMPLETED:

- 1) PRIOR TO PREDICTED RAIN EVENTS
- 2) SUBSEQUENT TO RAIN EVENTS
- 3) ON A BI-WEEKLY BASIS
- 4) AFTER SIGNIFICANT SNOWMELT EVENTS (WINTER-SPRING CONDITIONS) DURING INACTIVE CONSTRUCTION PERIODS, WHERE THE SITE IS LEFT ALONE FOR 30 DAYS OR LONGER, A MONTHLY INSPECTION SHALL BE CONDUCTED.

MAINTENANCE PROGRAM
ALL DAMAGED ESC MEASURES SHALL BE REPAIRED AND/OR REPLACED WITHIN 48 HOURS OF THE INSPECTION. SEDIMENT SHALL BE REMOVED FROM THE SEDIMENT CONTROL FENCING ONCE SEDIMENT HAS ACCUMULATED TO A LEVEL OF ONE-THIRD THE HEIGHT OF FENCING OR TO A HEIGHT OF 30 cm. ANY AMOUNT OF ACCUMULATED SEDIMENT SHALL BE REMOVED PRIOR TO THE REMOVAL OF THE CONTROL MEASURES.

SEDPILL CONTROL NOTES

1. ALL CONSTRUCTION EQUIPMENT SHALL BE REFUELED, MAINTAINED AND STORED NO LESS THAN 30 METERS FROM ANY WATERCOURSES, STREAMS, CREEKS, WOODLOTS AND ANY ENVIRONMENTALLY SENSITIVE AREAS, OR AS OTHERWISE SPECIFIED.
2. THE CONTRACTOR MUST IMPLEMENT ALL NECESSARY MEASURES IN ORDER TO PREVENT LEAKS, DISCHARGES OR SPILLS OF POLLUTANTS, DELETERIOUS MATERIALS OR SUBSTANCES WHICH WOULD OR COULD CAUSE AN ADVERSE IMPACT TO THE NATURAL ENVIRONMENT.
3. IN THE EVENT OF A LEAK, DISCHARGE OR SPILL OF A POLLUTANT, DELETERIOUS MATERIAL OR OTHER SUCH MATERIAL OR SUBSTANCE WHICH WOULD OR COULD CAUSE AN ADVERSE IMPACT TO THE NATURAL ENVIRONMENT, THE CONTRACTOR SHALL:
 - a. IMMEDIATELY NOTIFY THE APPROPRIATE FEDERAL, PROVINCIAL AND LOCAL GOVERNMENT MINISTRIES, DEPARTMENTS, AGENCIES AND AUTHORITIES OF THE INCIDENT IN ACCORDANCE WITH ALL CURRENT LAWS, LEGISLATION, ACTS, BY-LAWS, PERMITS/ APPROVALS, ETC.
 - b. TAKE IMMEDIATE MEASURES TO CONTAIN THE MATERIAL OR SUBSTANCE, AND TO TAKE SUCH MEASURES AS THEY DEEM APPROPRIATE TO MITIGATE AGAINST ANY ADVERSE IMPACTS TO THE NATURAL ENVIRONMENT.
 - c. THE CONTRACT SHALL RESTORE THE AFFECTED AREA TO ORIGINAL CONDITION OR BETTER, ALL TO THE SATISFACTION OF THE AUTHORITIES HAVING JURISDICTION.

ALL EROSION & SEDIMENT CONTROL MEASURES SHALL BE IN PLACE PRIOR TO THE START OF ANY EARTHWORKS OPERATIONS

EROSION AND SEDIMENT CONTROL NOTES:

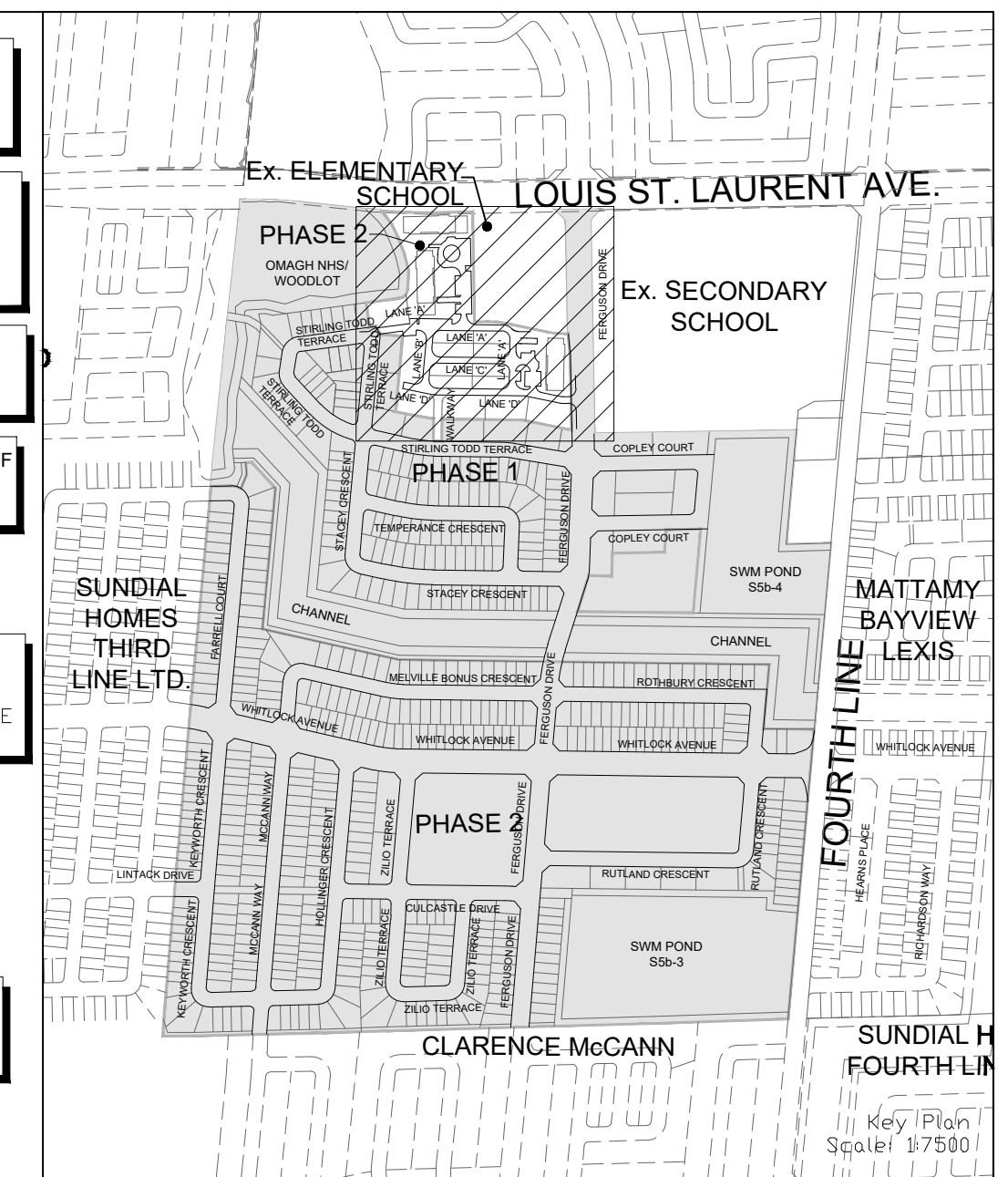
1. EROSION AND SEDIMENT CONTROLS ARE REQUIRED IN ACCORDANCE WITH THE TOWN OF MILTON BY-LAW 104-2007, AS AMENDED. GRADING IS PROHIBITED UNTIL THE ABOVE BY-LAW IS SATISFIED.
2. PRIOR TO TOPSOIL STRIPPING, EARTHWORKS, OR UNDERGROUND CONSTRUCTION, EROSION AND SEDIMENT CONTROLS SHALL BE IMPLEMENTED TO THE SATISFACTION OF THE AUTHORITY HAVING JURISDICTION.
3. SEDIMENT CONTROL FENCE SHALL BE CLEANED AND MAINTAINED IN GOOD REPAIR BY CONTRACTOR.
4. SEDIMENT CONTROL FENCE TO REMAIN IN PLACE UNTIL THE WORKING AREA HAS BEEN STABILIZED AND REVEGETATED.
5. ACCUMULATED SEDIMENT TO BE REMOVED OFF SITE PRIOR TO THE REMOVAL OF SEDIMENT CONTROL FENCE.
6. CONTRACTOR TO INSTALL MUD MAT AT THE CONSTRUCTION ACCESS IN ORDER TO PREVENT THE TRACKING OF MUD ONTO THE ADJACENT ROADS IN ACCORDANCE WITH THE TOWN OF MILTON BY-LAW 160-2005. MUD MAT TO BE A MINIMUM OF 30m LONG, 5m WIDE AND SHALL CONSIST OF 0.45m OF 50mm CLEAR STONE FOR FIRST 15m WITH REMAINING 15m CONSISTING OF 150mm RIP RAP.
7. IN ACCORDANCE WITH THE TOWN OF MILTON BY-LAW 160-2005, THE CONTRACTOR SHALL CLEAN THE ADJACENT ROADS ON A REGULAR BASIS TO THE SATISFACTION OF THE AUTHORITY HAVING JURISDICTION AND/OR IMMEDIATELY UPON NOTIFICATION BY THE AUTHORITY HAVING JURISDICTION.
8. FILTER FABRIC TO BE PLACED IN ALL STREET AND REAR LOT CATCHBASINS. THESE SILT TRAPS ARE TO BE CLEANED REGULARLY AND INSPECTED AFTER EACH RAINFALL 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. SEDIMENT TO BE REMOVED AND FILTER CLOTH REPLACED AS NECESSARY.
9. ALL DISTURBED GROUND OR TOPSOIL STOCKPILE LEFT INACTIVE FOR MORE THAN 30 DAYS SHALL BE STABILIZED BY SEEDING, SODDING, MULCHING OR COVERING, OR OTHER EQUIVALENT CONTROL MEASURE, UNLESS OTHERWISE AUTHORIZED BY THE TOWN OF MILTON.
10. ALL EROSION AND SEDIMENT CONTROL DEVICES ARE TO BE INSPECTED BY THE ENVIRONMENTAL CONSULTANT ONCE PER WEEK AND AFTER EACH RAINFALL OF 1 cm OR GREATER TO ENSURE THAT THEY ARE IN PROPER WORKING CONDITION.

CONSERVATION OF HALTON SPECIFIC SEDIMENT & EROSION CONTROL REQUIREMENTS

1. ENVIRONMENTAL INSPECTORS USED ON THE PROJECT ARE TO BE QUALIFIED PROFESSIONALS TRAINED IN SEDIMENT AND EROSION CONTROLS (CERTIFIED INSPECTOR OF SEDIMENT AND EROSION CONTROL (CISEC), CERTIFIED PROFESSIONAL ENGINEER IN EROSION AND SEDIMENT CONTROL (PEESC) OR APPROVED EQUIVALENT).
2. THE DEVELOPER IS RESPONSIBLE FOR ENSURING THAT THE EROSION AND SEDIMENT CONTROLS ARE MAINTAINED AND OPERATING AS INTENDED, INCLUDING MAKING FIELD ADJUSTMENTS AS NECESSARY, TO THE SATISFACTION OF THE TOWN OF MILTON AND CONSERVATION HALTON, TO ENSURE ADEQUATE EROSION AND SEDIMENT CONTROL PROTECTION.
3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROPER INSTALLATION, MAINTENANCE AND REMOVAL OF ALL TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES DURING CONSTRUCTION, AS DIRECTED BY THE ENGINEER.
4. ADDITIONAL EROSION AND SEDIMENT CONTROL MEASURES MAY BE REQUIRED AND SHALL BE DETERMINED BY THE ENGINEER OR ENVIRONMENTAL CONSULTANT.
5. CONSTRUCTION SHOULD BE AVOIDED DURING UNUSUALLY WET, RAINY OR WINTER THAW CONDITIONS.
6. MACHINERY IS TO ARRIVE ON SITE IN A CLEAN CONDITION (INCLUDING FREE OF MUD / SOIL / DIRT FROM OTHER LOCATIONS, INCLUDING CLEAN WHEELS / TIRES / TRACKS) AND IS TO BE MAINTAINED FREE OF FLUID LEAKS.
7. NO CONSTRUCTION ACTIVITY OR MACHINERY SHALL INTRUDE BEYOND THE SILT FENCE. ALL CONSTRUCTION VEHICLES SHALL LEAVE THE SITE AT THE DESIGNATED LOCATION SHOWN ON THE PLAN.
8. THE CONTRACTOR MUST HAVE SEVERAL SPILL RESPONSE KITS ON-SITE AT ALL TIMES.
9. THE ESC STRATEGIES ON THESE PLANS ARE NOT STATIC AND MAY NEED TO BE UPGRADED / AMENDED AS SITE CONDITIONS CHANGE TO PREVENT SEDIMENT RELEASES TO THE NATURAL ENVIRONMENT.
10. ACCUMULATED SEDIMENT TO BE USED ONSITE OR REMOVED OFFSITE PRIOR TO THE REMOVAL OF THE SILT FENCE.

LEGEND

- PROPERTY LINE
- SILT FENCE
- LIMIT OF SITE PLAN
- STREET OR SILT PROTECTION (SEE DETAIL ON DRAWING 18)



NOT FOR CONSTRUCTION

TOPOGRAPHIC INFORMATION
TOPOGRAPHIC INFORMATION PROVIDED BY R-PE SURVEYING LTD., REFERENCE No. 22-049, CAD FILE No.22049tp05, SURVEY RECEIVED FEBRUARY 16, 2023.

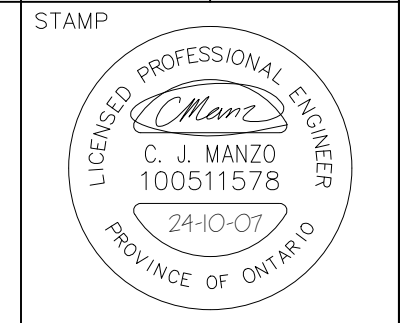
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No.	DATE	DESCRIPTION	APPROVED
2	24-10-07	C.J.M. 2nd SUBMISSION	
1	24-04-05	C.J.M. 1st SUBMISSION	

SCALE: 1:500	REFERENCES
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APPROVALS	FIELD NOTES
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MUNICIPAL APPROVAL	BELL <input type="checkbox"/> HYDRO <input type="checkbox"/>
DEVELOPMENT SERVICES	GAS <input type="checkbox"/> CABLE <input type="checkbox"/>
	TRAFFIC <input type="checkbox"/> WATER <input type="checkbox"/>
	STAMP



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TOWN OF MILTON
DEVELOPMENT SERVICES
TOWN OF MILTON
FILE No: XXXXXXX

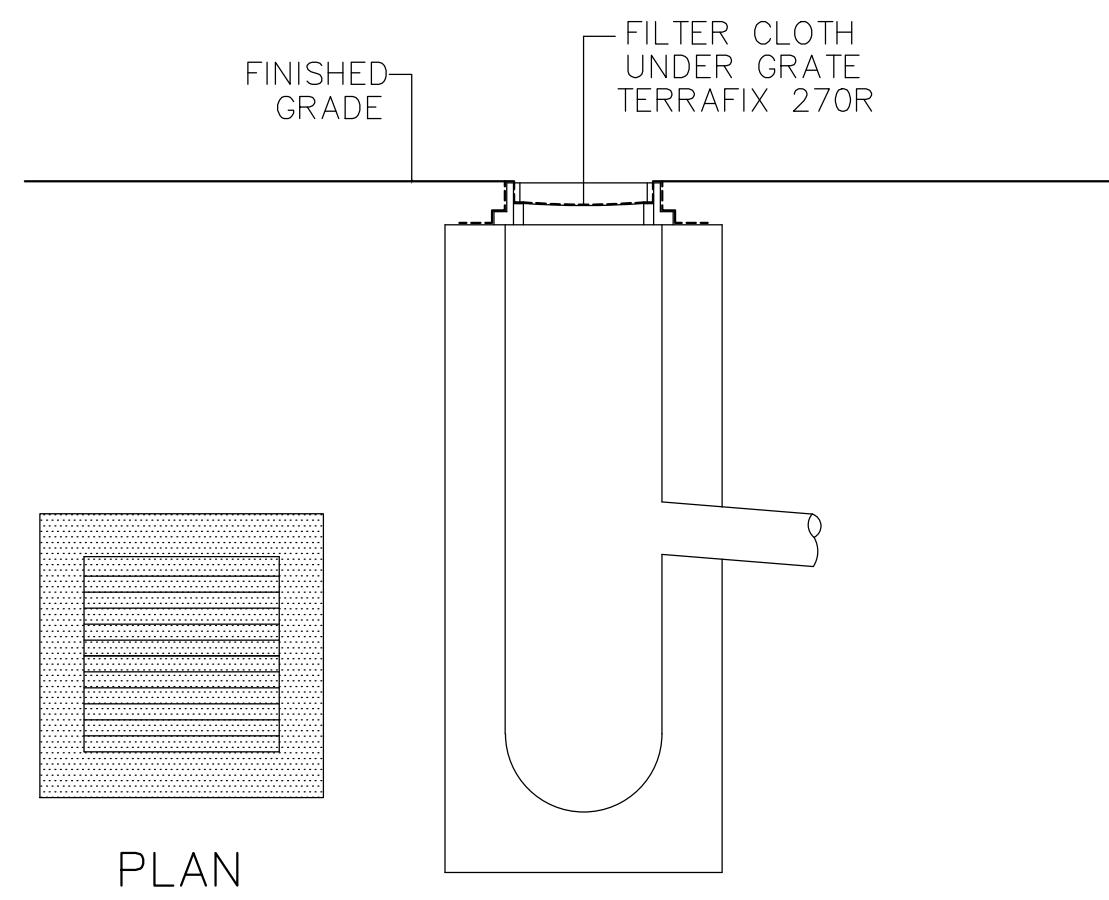
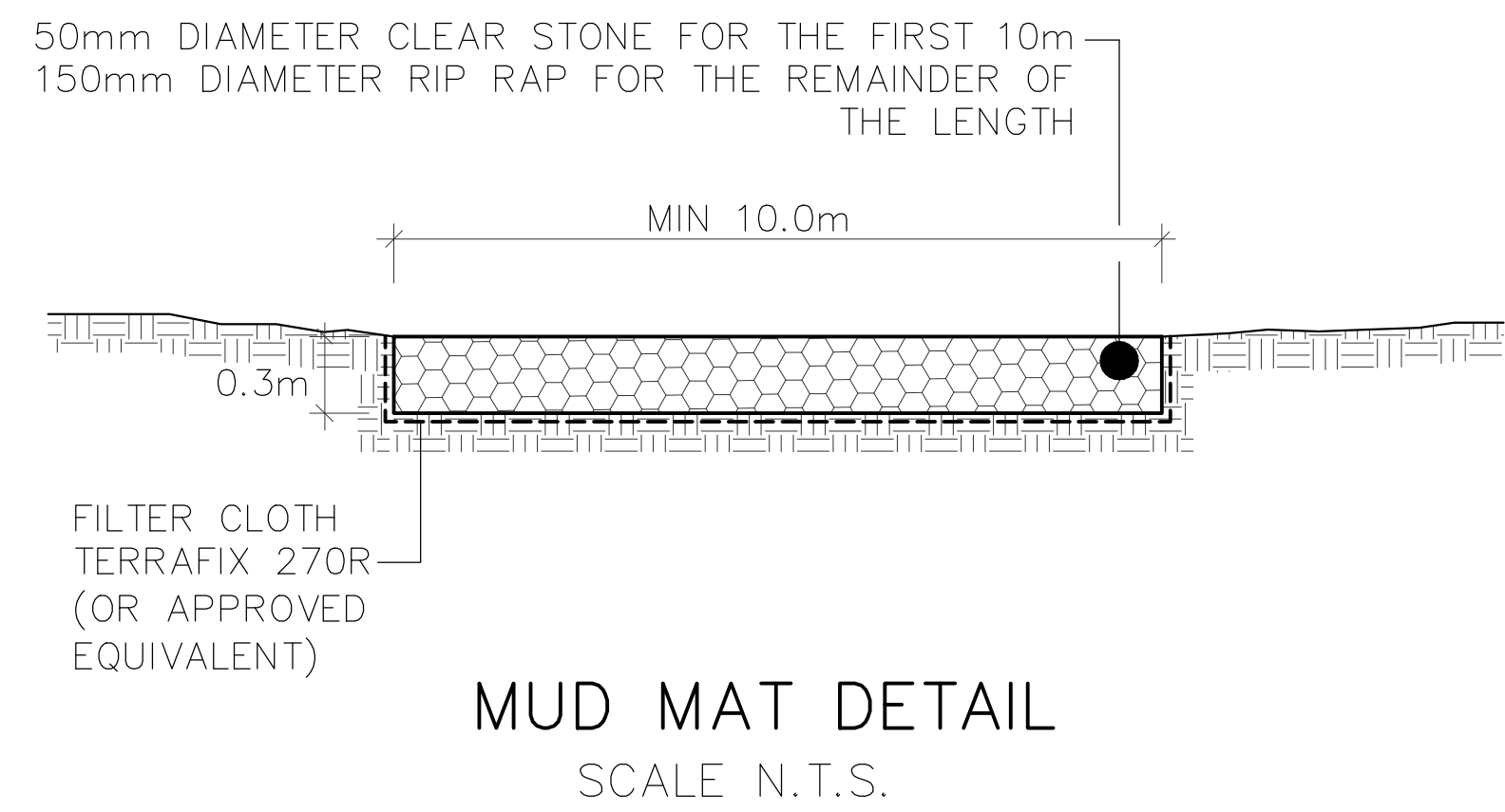
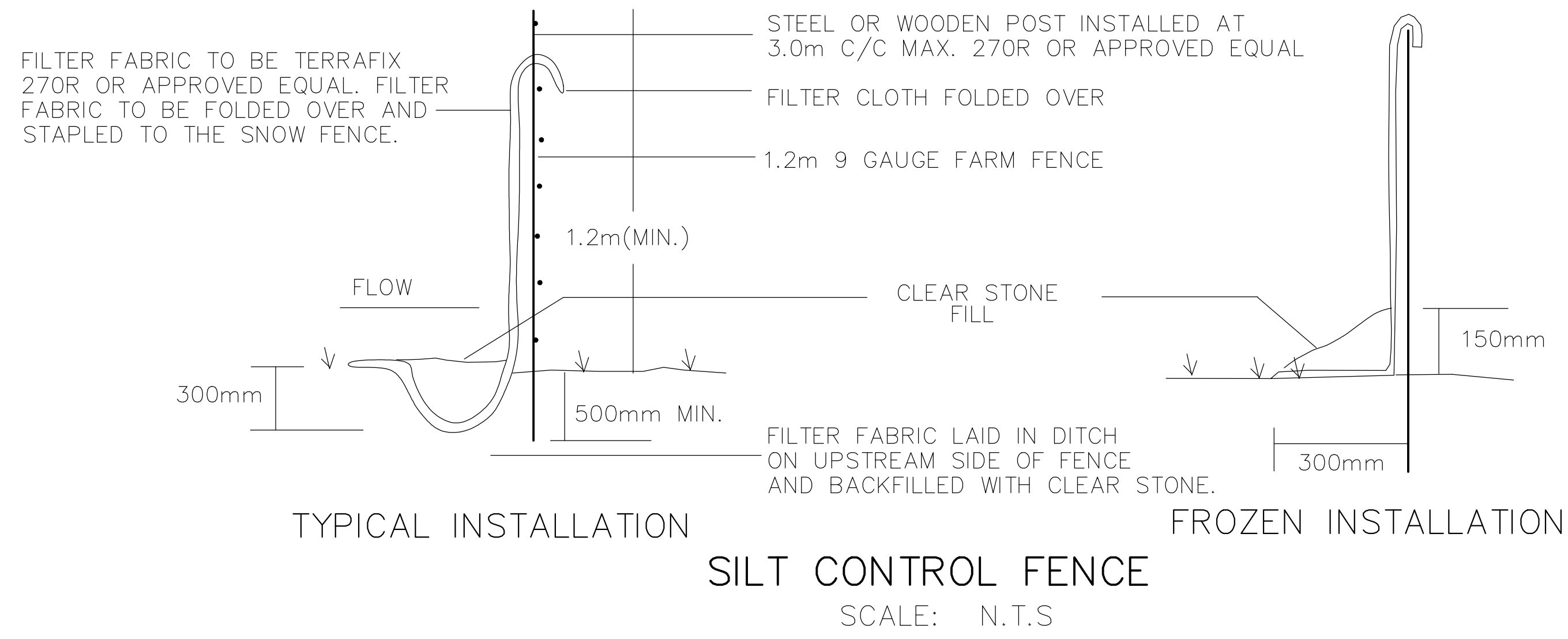
Halton REGION
The Regional Municipality of Halton
REGION OF HALTON
FILE No: XXXXXXX

DEVELOPER
MATTAMY (BROWNBRIDGE) LIMITED

DEVELOPMENT MANAGER PROJECT
mattamy HOMES **TOR SUBNODE SITEPLAN**

TITLE
EROSION CONTROL PLAN © DSEL

DRAWN BY: H.P. CHECKED BY: E.G.
DESIGNED BY: H.C. CHECKED BY: C.J.M.
PROJECT NO. 24-1377 SHEET 17 OF 18



NOT FOR CONSTRUCTION

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SCALE: NTS	REFERENCES
APPROVALS	FIELD NOTES
MUNICIPAL APPROVAL	BELL <input type="checkbox"/> HYDRO <input type="checkbox"/>
DEVELOPMENT SERVICES _____ DATE _____	GAS <input type="checkbox"/> CABLE <input type="checkbox"/>
	TRAFFIC <input type="checkbox"/> WATER <input type="checkbox"/>
REGIONAL APPROVAL	STAMP
DESIGN OF SANITARY, WATER SERVICES AND REGIONAL ROAD WORKS APPROVED SUBJECT TO DETAIL CONSTRUCTION CONFORMING TO HALTON REGION STANDARDS & SPECIFICATIONS & LOCALITIONAL APPROVAL FROM AREA MUNICIPALITY	
LEGISLATIVE AND PLANNING SERVICES _____ DATE _____	

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MILTON TOWN OF MILTON
DEVELOPMENT SERVICES FILE No: XXXXXXXX

Halton REGION The Regional Municipality of Halton REGION OF HALTON FILE No: XXXXXXXX

DEVELOPER
MATTAMY (BROWNRIDGE) LIMITED

DEVELOPMENT MANAGER PROJECT
 TOR SUBNODE SITEPLAN

TITLE
EROSION CONTROL PLAN DETAILS © DSEL

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DESIGNED BY: H.C.	CHECKED BY: C.J.M.
PROJECT NO. 24-1377	SHEET 18 OF 18