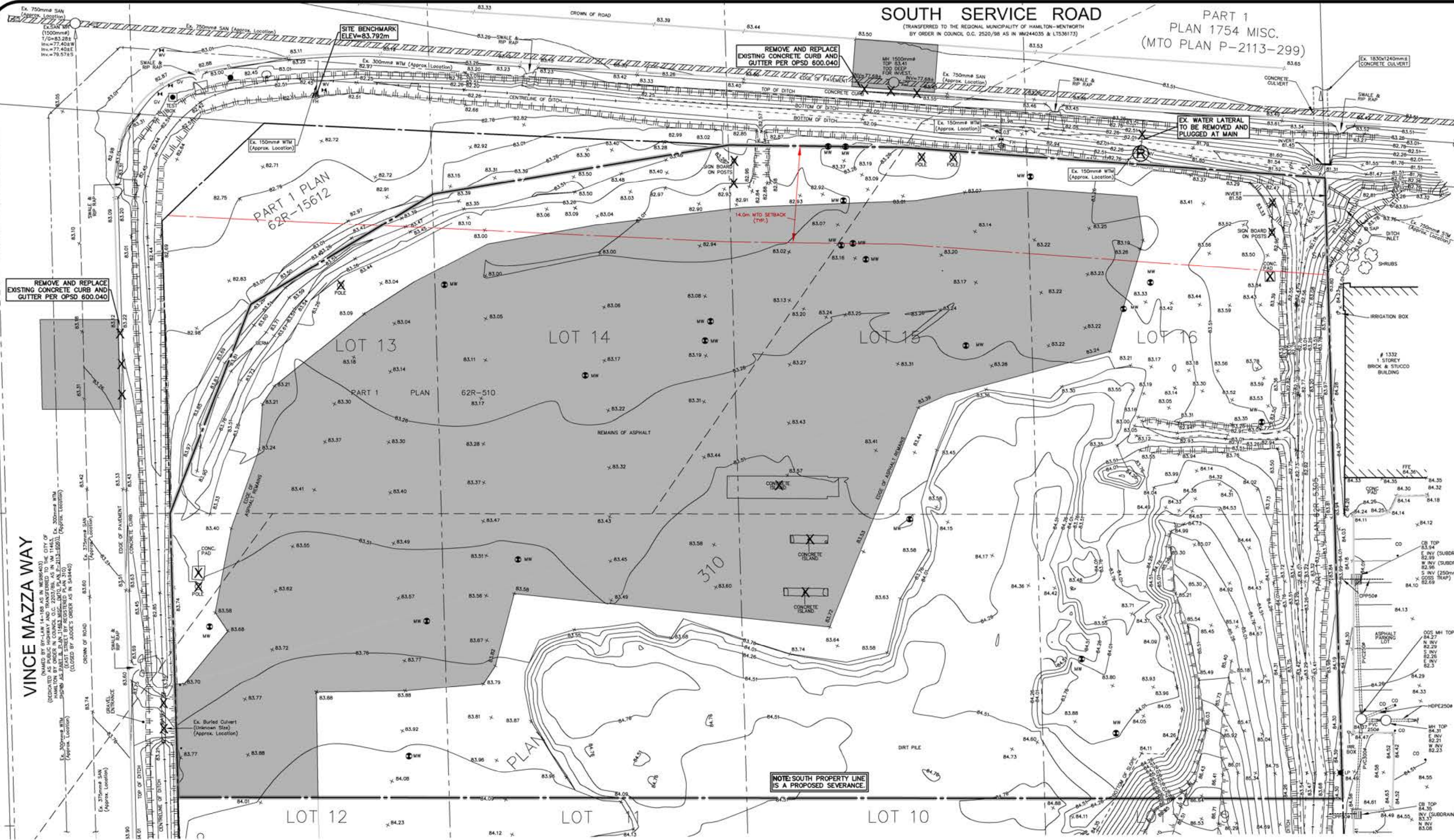
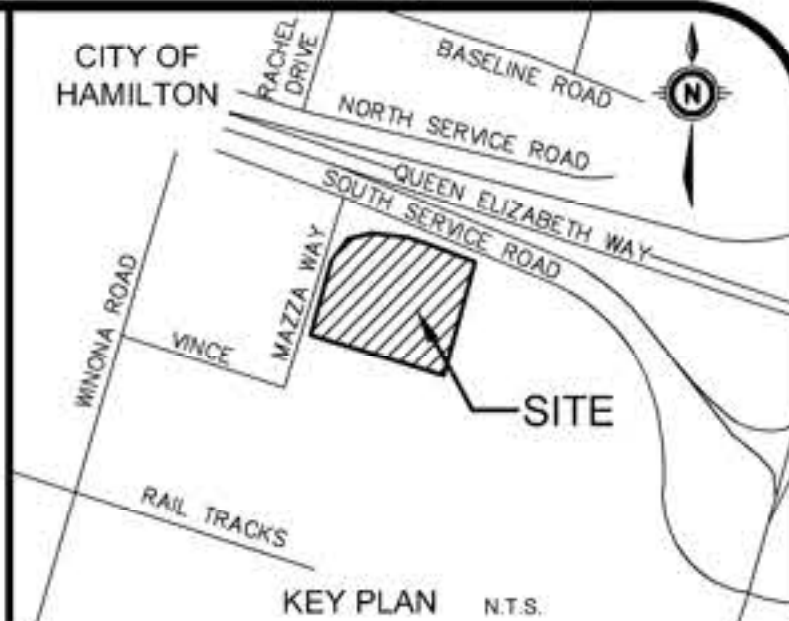




GEODETIC BM	ELEV. =	m
REFER TO DRAWING CREATED BY SURVEYORS ON SITE INC. DATED FEBRUARY 3, 2026.		
SITE BENCHMARK	ELEV. =	m
REFER TO DRAWING CREATED BY SURVEYORS ON SITE INC. DATED FEBRUARY 3, 2026.		
0 4 8 12 16 20 24m		

NOTE TO CONTRACTOR:

DO NOT SCALE DRAWINGS.

CONTRACTORS MUST CHECK AND VERIFY ALL DIMENSIONS AND REPORT ANY DISCREPANCIES TO THE ENGINEER BEFORE PROCEEDING WITH THE WORK.

ALL DRAWINGS REMAIN THE PROPERTY OF THE ENGINEER AND SHALL NOT BE REPRODUCED OR REUSED WITHOUT THE ENGINEER'S WRITTEN PERMISSION.

THE OWNER/ARCHITECT/CONTRACTOR IS ADVISED THAT M.T.E. CONSULTANTS INC. CANNOT CERTIFY ANY COMPONENT OF THE SITE WORKS NOT INSPECTED DURING CONSTRUCTION. IT IS THE RESPONSIBILITY OF THE GENERAL CONTRACTOR TO NOTIFY M.T.E. CONSULTANTS INC. PRIOR TO COMMENCEMENT OF CONSTRUCTION TO ARRANGE FOR INSPECTION.

- NOTE:**
1. PROPERTY LINE IS APPROXIMATE ONLY AND SHOULD NOT BE USED FOR DETERMINING SETBACKS OR LAYOUT.
 2. EXISTING TOPOGRAPHICAL INFORMATION PROVIDED BY SURVEYORS ON SITE INC., DATED FEBRUARY 11, 2026.
 3. THIS PLAN IS PART OF A SET OF PLANS WHICH COMPRISE OF C1.1, C1.2, C2.1, C2.2, C2.3 & C2.4.
 4. INVERTS ARE APPROXIMATE ONLY, CONTRACTOR TO FIELD VERIFY AND REPORT ANY DISCREPANCIES TO ENGINEER.

1	ISSUED FOR ZBA	AXIS	2026-08-26
No.	REVISION/ISSUANCE	BY	YVY-MMD



CLIENT

LIVWELL DEVELOPMENTS

499 BRANT STREET BURLINGTON

PROJECT

1310 SOUTH SERVICE ROAD

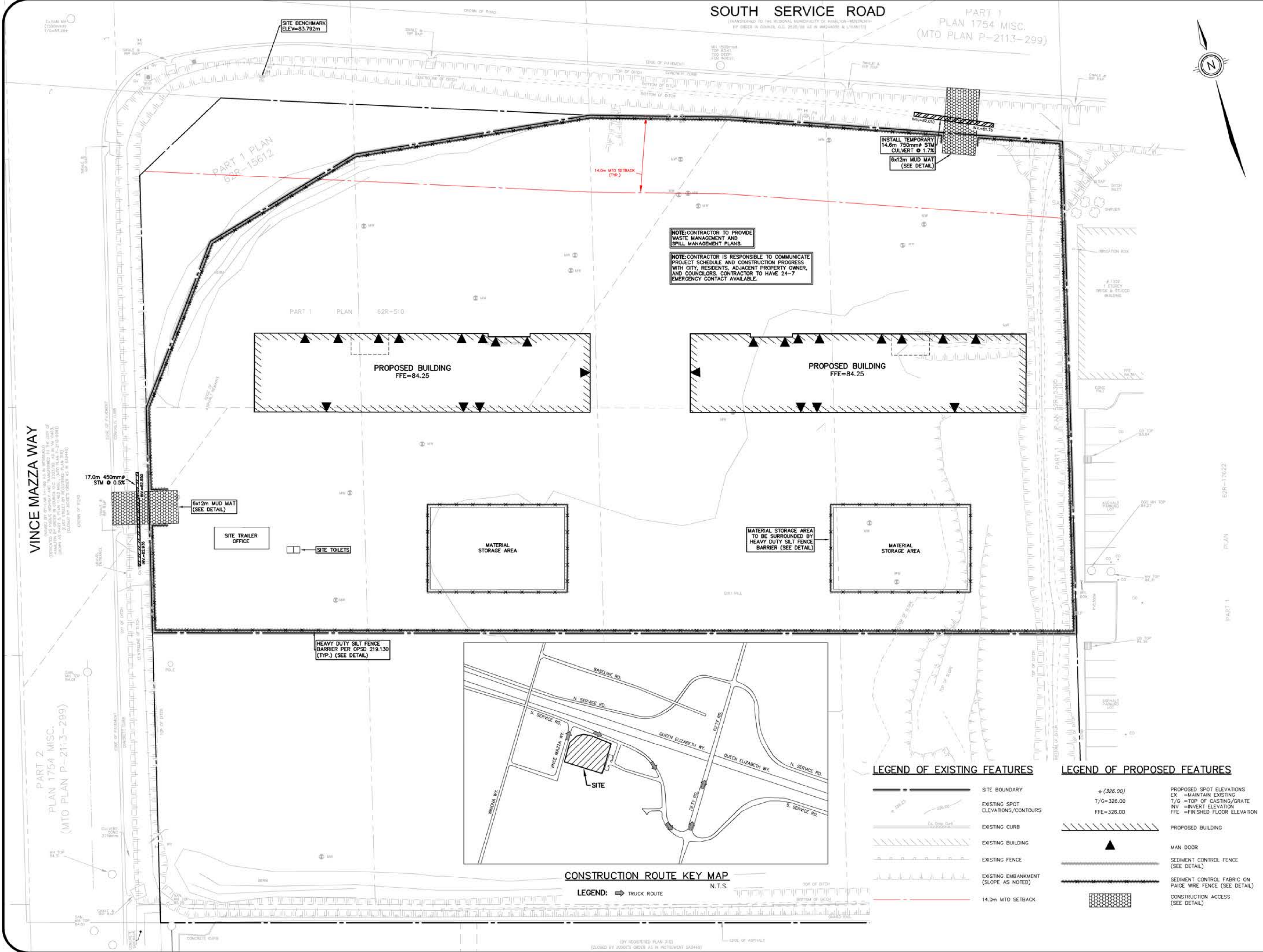
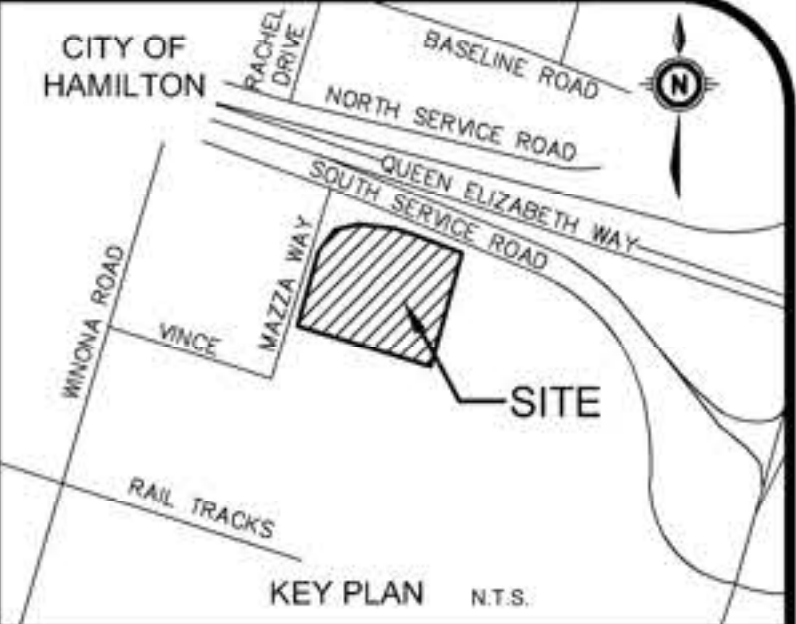
HAMILTON ONTARIO

DRAWING

EXISTING CONDITIONS AND REMOVALS PLAN	
Design By	LJF
Project Manager	A. SAWATSKY
Drawn By	GLC/GGC
Project No.	65075_001
Checked By	AXS
Drawing No.	
Date	2026-03-11
Scale	1:300
C1.1	
Sheet 1 of 6	

LEGEND OF EXISTING FEATURES

- SITE BOUNDARY
- EXISTING SPOT ELEVATIONS/CONTOURS
- EXISTING CURB
- EXISTING BUILDING
- EXISTING FENCE
- EXISTING EMBANKMENT (SLOPE AS NOTED)
- EXISTING SANITARY SEWER
- EXISTING WATERMAIN
- EXISTING STORM SEWER
- 14.0m MTO SETBACK
- REMOVALS
- HARD SURFACE REMOVALS



GEODETC BM	ELEV. =	m
REFER TO DRAWING CREATED BY SURVEYORS ON SITE INC. DATED FEBRUARY 3, 2026.		
SITE BENCHMARK	ELEV. =	m
REFER TO DRAWING CREATED BY SURVEYORS ON SITE INC. DATED FEBRUARY 3, 2026.		
0 4 8 12 16 20 24m		

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- NOTE:**
- PROPERTY LINE IS APPROXIMATE ONLY AND SHOULD NOT BE USED FOR DETERMINING SETBACKS OR LAYOUT.
 - EXISTING TOPOGRAPHICAL INFORMATION PROVIDED BY SURVEYORS ON SITE INC., DATED FEBRUARY 11, 2026.

1	ISSUED FOR ZBA	AXS	2026-08-26
No.	REVISION/ISSUANCE	BY	YYYY-MM-DD



CLIENT	
LIVWELL DEVELOPMENTS	
499 BRANT STREET	BURLINGTON
PROJECT	
1310 SOUTH SERVICE ROAD	
HAMILTON	ONTARIO
DRAWING	
CONSTRUCTION MANAGEMENT PLAN	
Design By	LJF
Project Manager	A. SAWATSKY
Drawn By	GLC/GGC
Project No.	65075_001
Checked By	AXS
Drawing No.	
Date	2026-08-24
Scale	1:300
C1.2	
Sheet 2 of 6	

SOUTH SERVICE ROAD

PART 1
PLAN 1754 MISC.
(MTO PLAN P-2113-299)



GEODETIC BM	ELEV. =	m
REFER TO DRAWING CREATED BY SURVEYORS ON SITE INC. DATED FEBRUARY 3, 2026.		
SITE BENCHMARK	ELEV. =	m
REFER TO DRAWING CREATED BY SURVEYORS ON SITE INC. DATED FEBRUARY 3, 2026.		
0 4 8 12 16 20 24m		

NOTE TO CONTRACTOR:

DO NOT SCALE DRAWINGS.

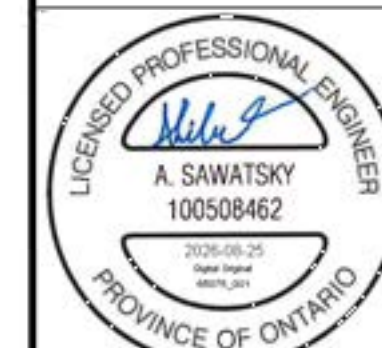
CONTRACTORS MUST CHECK AND VERIFY ALL DIMENSIONS AND REPORT ANY DISCREPANCIES TO THE ENGINEER BEFORE PROCEEDING WITH THE WORK.

ALL DRAWINGS REMAIN THE PROPERTY OF THE ENGINEER AND SHALL NOT BE REPRODUCED OR REUSED WITHOUT THE ENGINEER'S WRITTEN PERMISSION.

THE OWNER/ARCHITECT/CONTRACTOR IS ADVISED THAT M.T.E. CONSULTANTS INC. CANNOT CERTIFY ANY COMPONENT OF THE SITE WORKS NOT INSPECTED DURING CONSTRUCTION. IT IS THE RESPONSIBILITY OF THE GENERAL CONTRACTOR TO NOTIFY M.T.E. CONSULTANTS INC. PRIOR TO COMMENCEMENT OF CONSTRUCTION TO ARRANGE FOR INSPECTION.

- NOTE:**
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 - EXISTING TOPOGRAPHICAL INFORMATION PROVIDED BY SURVEYORS ON SITE INC. DATED FEBRUARY 11, 2026.
 - THIS PLAN IS PART OF A SET OF PLANS WHICH COMPRISE OF C1.1, C1.2, C2.1, C2.2, C2.3 & C2.4.
 - INVERTS ARE APPROXIMATE ONLY, CONTRACTOR TO FIELD VERIFY AND REPORT ANY DISCREPANCIES TO ENGINEER.

1	ISSUED FOR ZBA	AXS	2026-08-26
No.	REVISION/ISSUANCE	BY	YYYY-MM-DD



CLIENT
LIVWELL DEVELOPMENTS

499 BRANT STREET BURLINGTON
PROJECT

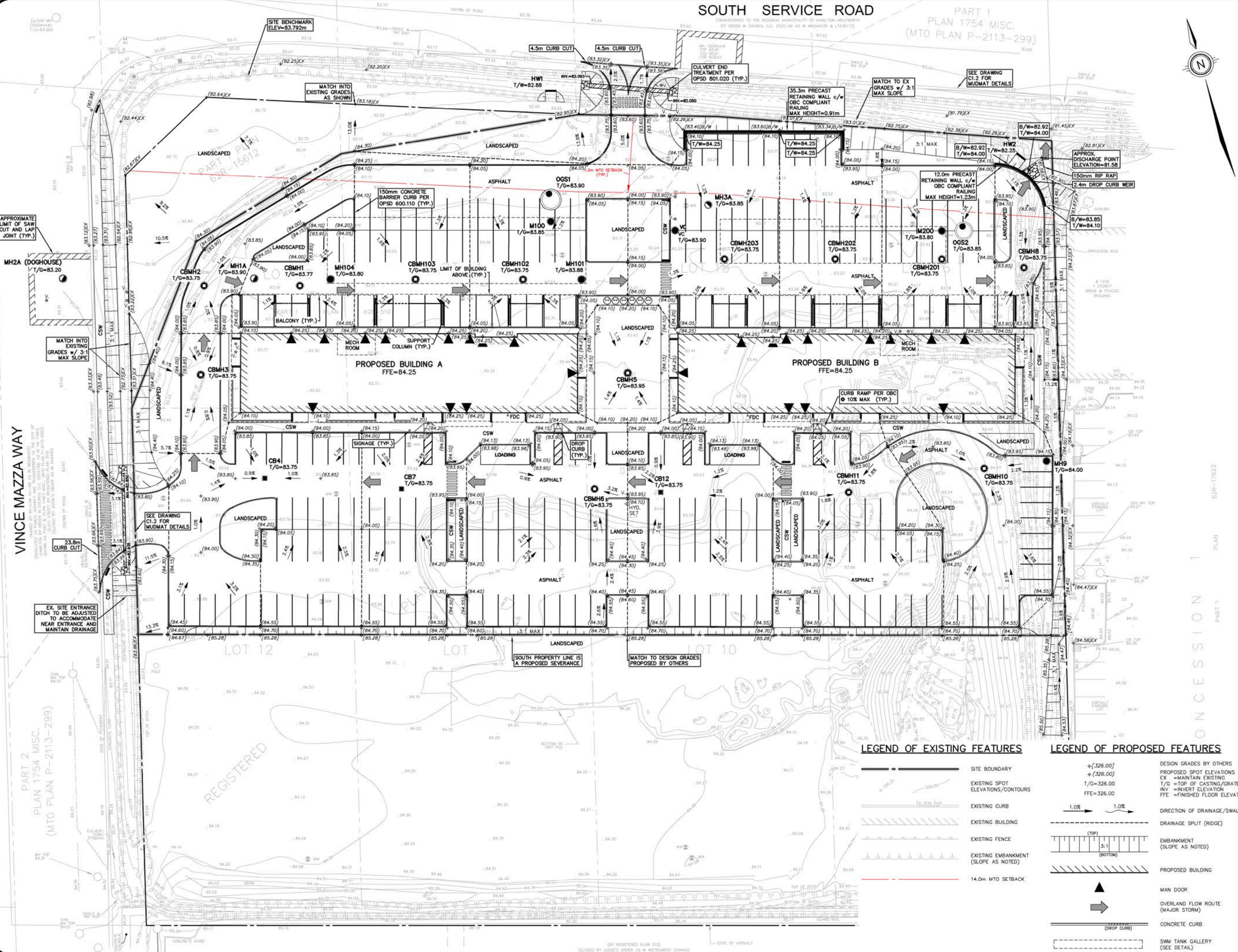
1310 SOUTH SERVICE ROAD
HAMILTON ONTARIO

SITE GRADING PLAN

Design By	LJF	Project Manager	A. SAWATSKY
Drawn By	GLC/GGC	Project No.	65075_001
Checked By	AXS	Drawing No.	C2.1
Date	2026-05-15	Scale	1:300
Scale	1:300	Sheet	3 of 6

VINCE MAZZA WAY

PART 2
PLAN 1754 MISC.
(MTO PLAN P-2113-299)

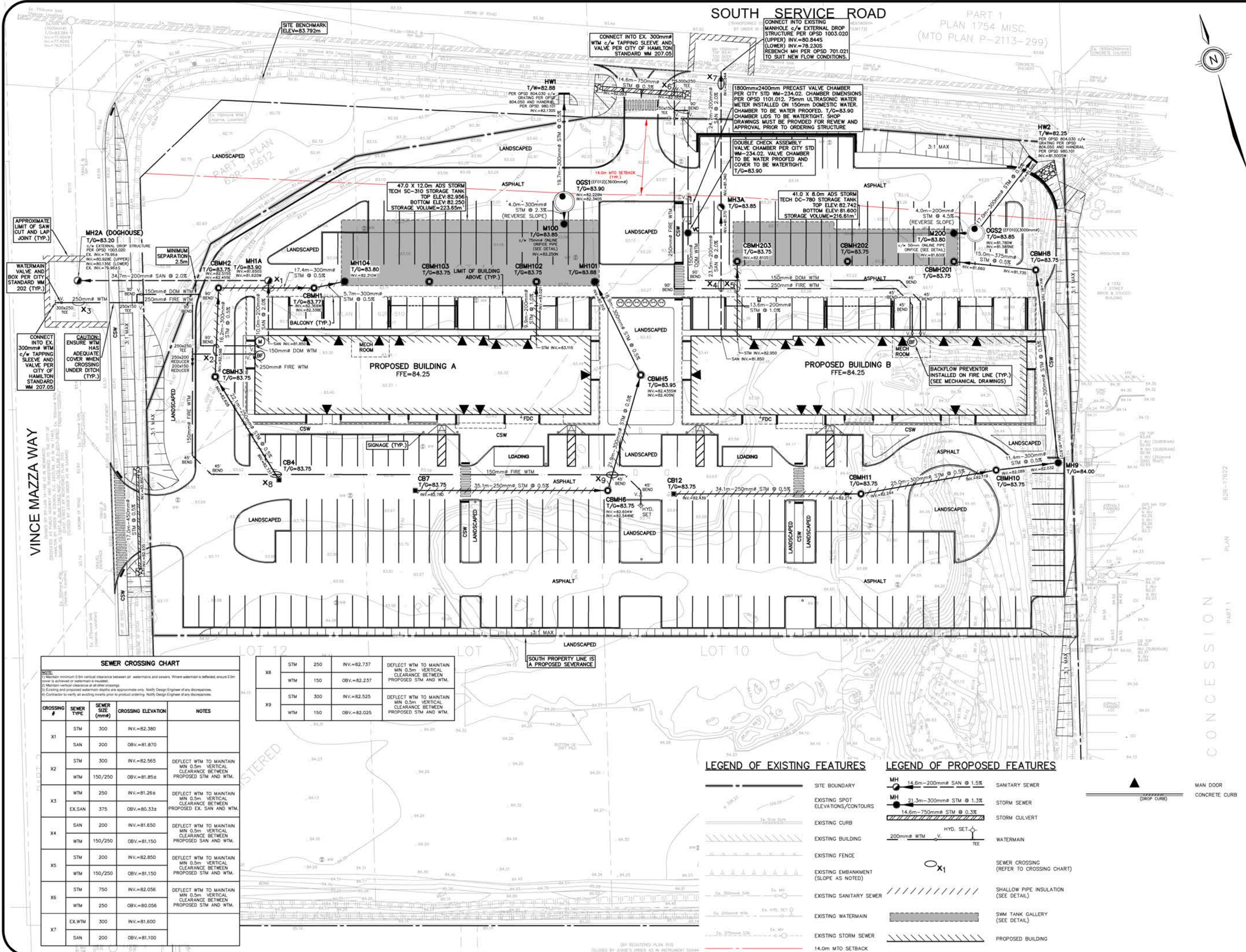


LEGEND OF EXISTING FEATURES

- SITE BOUNDARY
- EXISTING SPOT ELEVATIONS/CONTOURS
- EXISTING CURB
- EXISTING BUILDING
- EXISTING FENCE
- EXISTING EMBANKMENT (SLOPE AS NOTED)
- 14.0m MTO SETBACK

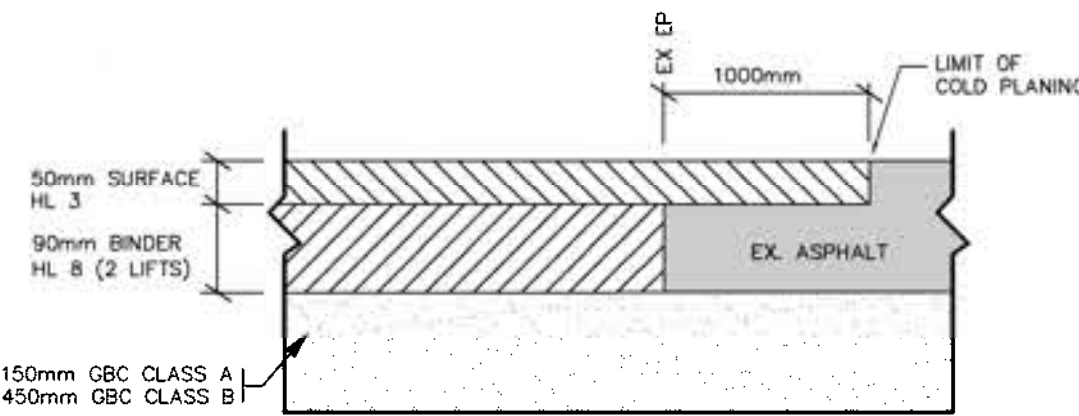
LEGEND OF PROPOSED FEATURES

- PROPOSED SPOT ELEVATIONS
- PROPOSED MAINTAIN EXISTING
- PROPOSED TOP OF CASTING/GRATE
- PROPOSED INVERT ELEVATION
- PROPOSED FINISHED FLOOR ELEVATION
- DIRECTION OF DRAINAGE/SWALE
- DRAINAGE SPLIT (RIDGE)
- EMBANKMENT (SLOPE AS NOTED)
- PROPOSED BUILDING
- MAN DOOR
- OVERLAND FLOW ROUTE (MAJOR STORM)
- CONCRETE CURB
- SWM TANK GALLERY (SEE DETAIL)

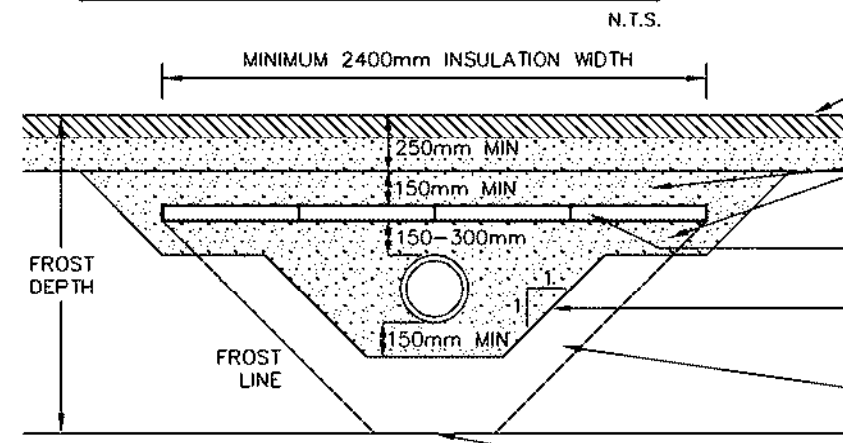


CONSTRUCTION NOTES AND SPECIFICATIONS

1. GENERAL
- 1.1. THESE PLANS ARE NOT FOR CONSTRUCTION UNTIL SIGNED AND SEALED BY ENGINEER AND APPROVED BY THE CITY OF HAMILTON.
- 1.2. THESE PLANS ARE TO BE USED FOR SERVING AND GRADING ONLY. ANY OTHER INFORMATION FOR CONSTRUCTION PURPOSES ONLY. THESE PLANS MUST NOT BE USED TO SITE THE PROPOSED BUILDING.
- 1.3. NO CHANGES ARE TO BE MADE WITHOUT THE APPROVAL OF THE DESIGN ENGINEER.
- 1.4. THESE PLANS ARE NOT TO BE REPRODUCED IN WHOLE OR IN PART WITHOUT THE PERMISSION OF MTE CONSULTANTS INC.
- 1.5. THE APPROVAL OF THESE PLANS DO NOT EXEMPT THE OWNER'S BONDED CONTRACTOR FROM THE REQUIREMENTS TO OBTAIN THE VARIOUS PERMITS NORMALLY REQUIRED TO COMPLETE A CONSTRUCTION PROJECT, SUCH AS, BUT NOT LIMITED TO THE FOLLOWING:
- 1.5.1. ROAD CUT PERMIT
- 1.5.2. APPROACH APPROVAL PERMITS
- 1.5.3. COMMITTEE OF ADJUSTMENT
- 1.5.4. SEWER PERMITS
- 1.5.5. RELOCATION OF SERVICES
- 1.5.6. ENCROACHMENT AGREEMENTS
- 1.6. PRIOR TO CONSTRUCTION, THE CONTRACTOR MUST:
- 1.6.1. CHECK AND VERIFY ALL EXISTING CONDITIONS, LOCATIONS AND ELEVATIONS WHICH INCLUDES BUT IS NOT LIMITED TO THE BENCHMARK ELEVATIONS, EXISTING SERVICE CONNECTIONS AND EXISTING INVERTS, REPORT ALL DISCREPANCIES TO THE ENGINEER PRIOR TO PROCEEDING.
- 1.6.2. OBTAIN ALL UTILITY LOCATES AND REQUIRED PERMITS AND LICENSES.
- 1.6.3. VERIFY THAT THE FINISHED FLOOR ELEVATIONS AND BASEMENT FLOOR ELEVATIONS (WHICH MAY APPEAR ON THIS PLAN) COMPLY WITH THE FINAL ARCHITECTURAL DRAWINGS.
- 1.6.4. CONFIRM ALL DRAWINGS USED FOR CONSTRUCTION ARE OF THE MOST RECENT REVISION.
- 1.7. THE CONTRACTOR SHALL ASSUME ALL LIABILITY FOR ANY DAMAGE TO EXISTING WORKS.
- 1.8. ALL WORKS ON A MUNICIPAL RIGHT-OF-WAY WILL BE INSTALLED BY THE OWNER'S BONDED CONTRACTOR UPON APPLICATION BY OWNER AT OWNER'S EXPENSE. UNDER THE ROAD CUT PERMIT, THE CONTRACTOR IS TO MAKE CONNECTION TO THE SERVICES AND MAKE AND MAINTAIN THE TEMPORARY REPAIR OVER THE CUT, WITH PERMANENT REPAIR BEING MADE BY THE CITY CONTRACTOR AT THE OWNER/OWNER'S CONTRACTOR COST. THE CONTRACTOR IS RESPONSIBLE FOR RESTORATION OF ALL BOULEVARD AREAS.
- 1.9. CONSTRUCTION OF SEWERS, WATERMANS, AND RELATED APPURTENANCES SHALL BE UNDERTAKEN IN ACCORDANCE WITH THE CITY OF HAMILTON CONSTRUCTION AND MATERIALS SPECIFICATIONS MANUAL (LATEST EDITION), THE ONTARIO PROVINCIAL STANDARD DRINKING (OPSD), AND MINISTRY OF THE ENVIRONMENT GUIDELINES (LATEST EDITION). THE CITY DRAWINGS SHALL TAKE PRECEDENT OVER THE OPSD DRAWINGS.
- 1.10. ALL SEWERS ARE TO BE INSTALLED WITH A MINIMUM COVER OF 2.0m AT THE PROPERTY LINE BELOW THE FINAL ROAD GRADE OR AT SUCH HIGHER ELEVATION ONLY AS MAY BE NECESSITATED BY THE ELEVATION OF THE MAIN SEWER. ON PRIVATE PROPERTY THE MINIMUM COVER IS TO BE NO LESS THAN 1.2m.
- 1.11. FLEXIBLE SANITARY AND STORM SEWERS SHALL BE CONNECTED TO MANHOLES USING KOB-W-SEA BOOTS OR APPROVED EQUIVALENT. RIGID SANITARY AND STORM SEWER CONNECTIONS TO MANHOLES SHALL BE GROUDED IN PLACE. ALL CONNECTIONS TO MANHOLES SHALL BE IN ACCORDANCE WITH OPSD 407. ANY CONNECTIONS TO CATCHBASINS SHALL BE GROUDED IN PLACE.
- 1.12. INFORMATION REGARDING ANY EXISTING SERVICES AND/OR UTILITIES SHOWN ON THE APPROVED SET OF CONSTRUCTION DRAWINGS IS FURNISHED AS THE BEST AVAILABLE INFORMATION. THE CONTRACTOR SHALL INTERPRET THIS INFORMATION AS HE SEES FIT WITH THE UNDERSTANDING THAT THE OWNER AND HIS AGENTS DISCLAIM ALL RESPONSIBILITY FOR ITS ACCURACY AND/OR SUFFICIENCY.
- 1.13. NO BLASTING WILL BE PERMITTED.
- 1.14. ALTERNATIVE MATERIALS WILL NOT BE ALLOWED UNLESS FIRST APPROVED IN WRITING BY THE CONSULTANT AND THE CITY OF HAMILTON.
- 1.15. APPROVED FILL, FREE OF DELETERIOUS AND ORGANIC MATERIAL AND BOULDERS SHALL BE COMPACTED TO A DRY DENSITY NOT LESS THAN 95% OF THE STANDARD PROCTOR DENSITY. AFTER COMPACTION, SOIL DENSITY TESTS SHALL BE CONDUCTED TO ENSURE ADEQUATE COMPACTION AND STABILITY OF THE FILL AND TEST RESULTS SHALL BE SUBMITTED TO THE ENGINEER.
- 1.16. CONTRACTOR IS RESPONSIBLE FOR CONTACTING ENGINEER 48 HRS PRIOR TO COMMENCING WORK TO ARRANGE FOR INSPECTION. ENGINEER TO DETERMINE DEGREE OF INSPECTION AND TESTING REQUIRED. INSPECTION OF CERTAIN EXISTING SERVICE INSTALLATION AS MANDATED BY ONTARIO BUILDING CODE DIVISION C, PART 1, SECTION 1.2.2, GENERAL REVISION. FAILURE TO NOTIFY ENGINEER WILL RESULT IN EXTENSIVE POST CONSTRUCTION INSPECTION AT CONTRACTORS EXPENSE.
- 1.17. PLAN TO BE READ IN CONJUNCTION WITH MTE DRAWING C1.1, C1.2, C2.1, C2.2, C2.3 AND C2.4.
- 1.18. PLAN TO BE READ IN CONJUNCTION WITH SWM REPORT PREPARED BY MTE CONSULTANTS INC.
- 1.19. SITE PLAN INFORMATION TAKEN FROM PLAN PREPARED BY PATRICK DAVID TROTTER ARCHITECT, DATED AUGUST 06, 2026.
- 1.20. EXISTING TOPOGRAPHIC AND LEGAL INFORMATION TAKEN FROM PLAN PREPARED BY SURVEYORS ON SITE INC., DATED FEBRUARY 18, 2026. MTE ASSUMES THAT ALL TOPOGRAPHICAL INFORMATION IS AN ACCURATE REPRESENTATION OF CURRENT CONDITIONS.
- 1.21. RETAINING WALLS TO BE DESIGNED BY OTHERS. FOR WALLS EXCEEDING 1.0m IN HEIGHT, SHOP DRAWINGS MUST BE SUBMITTED FOR REVIEW AND APPROVAL AND BUILDING PERMIT MUST BE OBTAINED. RETAINING WALLS OVER 0.6m IN HEIGHT REQUIRE GUARDS. HIGH SIDE OF RETAINING WALLS TO BE BACKFILLED WITH FREE DRAINING MATERIAL.
- 1.22. SITE SERVING CONTRACTOR TO TERMINATE ALL SERVICES 1.0 METRES FROM FOUNDATION WALL.
- 1.23. FILTER FABRIC TO BE TERRAFIX 270R OR APPROVED EQUIVALENT.
- 1.24. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL TRAFFIC AND SAFETY MEASURES DURING THE CONSTRUCTION PERIOD INCLUDING THE SUPPLY, INSTALLATION AND REMOVAL OF ALL NECESSARY SIGNALS, DELINEATORS, MARKERS, AND SIGNAGE. ALL SIGNS, ETC. SHALL CONFORM TO THE STANDARDS OF THE CITY OF CAMBRIDGE AND THE MTO MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES.
- 1.25. THE POSITION OF POLE LINES, CONDUITS, WATERMANS, SEWERS AND OTHER UNDERGROUND AND OVERGROUND UTILITIES AND STRUCTURES IS NOT NECESSARILY SHOWN ON THE CONTRACT DRAWINGS, AND, WHERE SHOWN, THE ACCURACY OF THE POSITION OF SUCH UTILITIES AND STRUCTURES IS NOT GUARANTEED. BEFORE STARTING WORK, THE CONTRACTOR SHALL INFORM HIMSELF OF THE EXACT LOCATION OF ALL SUCH UTILITIES AND STRUCTURES AND SHALL ASSUME ALL LIABILITY FOR DAMAGE TO THEM.
- 1.26. CONTRACTOR TO MAINTAIN A "CONFINED TRENCH CONDITION" IN ALL SEWER AND SERVICE TRENCHES.
- 1.27. FOLLOWING COMPLETION OF PROPOSED WORKS AND PRIOR TO OCCUPANCY INSPECTION, ALL STORM AND SANITARY SEWERS ARE TO BE FLUSHED, AND ALL CATCHBASIN AND CATCHBASIN MANHOLE SUMPS ARE TO BE CLEANED OF DEBRIS AND SILT.
- 1.28. CONTRACTOR TO COMPLY WITH O.R.E.G. 406/19 FOR MANAGEMENT OF EXCESS SOILS AS APPLICABLE.
- 1.29. APPROVAL OF THIS DRAWING IS FOR MATERIAL ACCEPTABILITY AND COMPLIANCE WITH MUNICIPAL AND PROVINCIAL SPECIFICATIONS AND STANDARDS ONLY. APPROVAL AND INSPECTION BY THE CITY OF THE WORKS DOES NOT CERTIFY THE LINE AND GRADE OF THE WORKS AND IT IS THE OWNER'S RESPONSIBILITY TO HAVE THEIR ENGINEER CERTIFY THIS ACCORDINGLY.
2. STORM SEWERS
- 2.1. PIPE BEDDING FOR RIGID PIPE TO BE CLASS "B" AS PER OPSD 802.030. PIPE BEDDING FOR FLEXIBLE PIPE TO BE AS PER OPSD 802.010. BEDDING MATERIAL AND COVER MATERIAL TO BE GRAN. "A" TRENCH BACKFILL TO BE NATIVE MATERIAL REPLACED IN 300mm LIFTS AND COMPACTED TO 95% STANDARD PROCTOR DENSITY.
- 2.2. STORM SEWERS 200mm TO 375mm SHALL BE POLYVINYL CHLORIDE (PVC) PIPE SDR35 ASTM-D3034 WITH INTEGRAL BELL AND SPIGOT UTILIZING FLEXIBLE ELASTOMERIC SEALS.
- 2.3. STORM SEWERS, 450mm AND LARGER, SHALL BE POLYVINYL CHLORIDE (PVC) PIPE SDR35 ASTM-D3034 WITH INTEGRAL BELL AND SPIGOT UTILIZING FLEXIBLE ELASTOMERIC SEALS OR CONCRETE PIPE, CSA-A257.2 65-D WITH RUBBER GASKET JOINT WITH INTEGRAL BELL AND SPIGOT UTILIZING FLEXIBLE ELASTOMERIC SEALS.
- 2.4. FACTORY FABRICATED TEES SHALL BE USED FOR ALL STORM SERVICE CONNECTIONS.
- 2.5. MANHOLES AND MANHOLE CATCHBASINS TO BE 1200mm DIAMETER PRECAST WITH ALUMINIUM STEPS AT 300mm CENTRES AS PER OPSD 701.010 UNLESS OTHERWISE SPECIFIED. (NO SUMPS)
- 2.6. CATCHBASINS TO BE 600mm SQUARE PRECAST AS PER OPSD 705.010, MODIFIED WITH A GOGS TRAP AS PER SEW-304. (GOGS TRAPS ARE NOT REQUIRED ON CB'S WITHIN GRASSED AREAS).
- 2.7. ALL STORM STRUCTURES TO HAVE A MINIMUM 600mm DEEP SUMP.
- 2.8. MANHOLE AND CATCHBASIN, FRAMES, GRATES, CASTINGS AND LIDS TO BE QUALITY GREY IRON ASTM A48 CLASS 30B.
- 2.9. STORM MANHOLE LIDS TO BE PER OPSD 401.010 - TYPE "A" CATCHBASIN AND CATCHBASIN MANHOLE GRATES TO BE PER OPSD 400.100. DITCH INLET CATCHBASIN GRATES TO BE PER OPSD 403.010.
- 2.10. ADJUSTMENT UNITS FOR STORM STRUCTURES TO BE IN ACCORDANCE WITH OPSD 704.010 OR 704.011.
- 2.11. STORM SEWERS AND SERVICES TO HAVE MINIMUM 1.2m COVER, WHERE COVER OVER SERVICES IS DEFICIENT, THE CONTRACTOR SHALL LONGITUUDINALLY CENTER OVER THE PIPE, PLASTISPAN H.D. BELOW GRADE RIGID INSULATION OR APPROVED EQUIVALENT, WITH OVERLAPPING JOINTS. INSULATION TO BE 1950mm WIDE AND 75mm THICK.
- 2.12. CONTRACTOR RESPONSIBLE FOR TESTING OF STORM SEWERS IN ACCORDANCE WITH OPSS 410.
- 2.13. CULVERTS SHALL BE MINIMUM 14 GAGE INSTALLED AS PER OPSS 421 AND OPSD 802.010 (TYPE 2, USING GRAN "A" FOR COVER AND BEDDING MATERIAL).
- 2.14. STORMCEPTOR MANUFACTURER TO PROVIDE WRITTEN CERTIFICATION OF THE INSTALLATION TO THE ENGINEER AND THE CITY.
- 2.15. UNDER NO CIRCUMSTANCES SHALL THE BUILDING FOUNDATION DRAINS BE CONNECTED DIRECTLY TO THE STORM SEWER SYSTEM.
- 2.16. ALL WEEPING TILE DRAINAGE TO BE PUMPED TO THE STORM SEWER SYSTEM.
3. SANITARY SEWERS
- 3.1. PIPE BEDDING FOR RIGID PIPE TO BE CLASS "B" AS PER OPSD 802.030. PIPE BEDDING FOR FLEXIBLE PIPE TO BE AS PER OPSD 802.010. BEDDING MATERIAL AND COVER MATERIAL TO BE GRAN. "A" TRENCH BACKFILL TO BE NATIVE MATERIAL REPLACED IN 300mm LIFTS AND COMPACTED TO 95% STANDARD PROCTOR DENSITY.
- 3.2. SANITARY SEWERS 150mm AND SMALLER SHALL BE POLYVINYL CHLORIDE (PVC) PIPE SDR28 ASTM-D3034 WITH INTEGRAL BELL AND SPIGOT UTILIZING FLEXIBLE ELASTOMERIC SEALS.
- 3.3. SANITARY SEWERS GREATER THAN 150mm SHALL BE POLYVINYL CHLORIDE (PVC) PIPE DR35 ASTM-D3034 WITH INTEGRAL BELL AND SPIGOT UTILIZING FLEXIBLE ELASTOMERIC SEALS.
- 3.4. MANHOLES TO BE 1200mm DIAMETER PRECAST WITH ALUMINIUM STEPS AT 300mm CENTRES AS PER OPSD 701.010.
- 3.6. MANHOLES TO BE BENCHED PER OPSD 701.021.
- 3.7. SANITARY MANHOLE LIDS TO BE PER OPSD 401.010 - TYPE "A". SANITARY MANHOLE LIDS TO BE WATER TIGHT PER OPSD 401.030 WHEN LOCATED IN SWM PONDING AREA.
- 3.8. MANHOLE FRAMES, CASTINGS AND LIDS TO BE QUALITY GREY IRON ASTM A48 CLASS 30B.
- 3.9. ADJUSTMENT UNITS FOR SANITARY STRUCTURES TO BE IN ACCORDANCE WITH OPSD 704.010 OR 704.011.
- 3.10. FACTORY FABRICATED WYES SHALL BE USED FOR ALL SANITARY SERVICE CONNECTIONS.
- 3.11. SANITARY SEWERS AND SERVICES TO HAVE MINIMUM 1.2m COVER, WHERE COVER OVER SERVICES IS DEFICIENT, THE CONTRACTOR SHALL LONGITUUDINALLY CENTER OVER THE PIPE, PLASTISPAN H.D. BELOW GRADE RIGID INSULATION OR APPROVED EQUIVALENT, WITH OVERLAPPING JOINTS. INSULATION TO BE 1950mm WIDE AND 75mm THICK.
- 3.12. CONTRACTOR RESPONSIBLE FOR TESTING OF SANITARY SEWERS IN ACCORDANCE WITH OPSS 409.
4. WATERMANS
- 4.1. PIPE BEDDING AND COVER MATERIAL FOR WATERMANS AND SERVICES TO BE INSTALLED AS PER CITY OF HAMILTON STANDARD DRAWING No. WM-200.01 (CONCRETE AND PVC), AND WM-200.02 (DUCTILE IRON). BOTH BEDDING AND COVER MATERIAL TO BE GRANULAR "A" OR WATERMANS AND SERVICES GREATER THAN 50mm AND GRANULAR "D" FOR SERVICES 50mm AND SMALLER. TRENCH BACKFILL TO BE NATIVE MATERIAL REPLACED IN 300mm LIFTS AND COMPACTED TO 95% STANDARD PROCTOR DENSITY.
- 4.2. ALL MATERIALS AND CONSTRUCTION METHODS MUST CORRESPOND TO THE CURRENT CITY OF HAMILTON STANDARDS.
- 4.3. FOR SERVICES GREATER THAN 50mm, THE PROPOSED WATER SERVICE BOTH WITHIN THE ROAD ALLOWANCE AND ON PRIVATE PROPERTY MAY EITHER BE DUCTILE IRON (CLASS 52), COPPER, OR PVC RATED AT MINIMUM WORKING PRESSURE OF 150 PSI (DR18). SERVICE 50mm AND LESS MUST BE COPPER WITHIN THE ROAD ALLOWANCE, HOWEVER, PVC OR AN ALTERNATE MATERIAL APPROVED FOR USE UNDER THE ONTARIO BUILDING CODE MAY BE USED ON PRIVATE PROPERTY.
- 4.4. PVC WATER MAIN/SERVICE MATERIAL, CATHODIC PROTECTION, TRACER WIRE ETC. MUST BE AS PER FORM 400.
- 4.5. MAIN STOPS, CURB STOPS AND COUPLINGS SHALL BE AWWA C-800 COPPER TO COPPER FLANGED OR COMPRESSION CONNECTION OR APPROVED EQUIVALENT.
- 4.6. A MINIMUM HORIZONTAL SEPARATION OF 2.5m IS TO BE MAINTAINED BETWEEN SEWERS AND WATERMAIN, WHERE THE WATERMAIN GRADES OVER THE SEWER. A MINIMUM VERTICAL SEPARATION IS TO BE MAINTAINED PER CITY OF HAMILTON STANDARDS.
- 4.7. ALL WATERMANS AND SERVICES TO HAVE MINIMUM 1.6m COVER TO TOP OF PIPE, WHERE COVER OVER SERVICES IS DEFICIENT, THE CONTRACTOR SHALL LONGITUUDINALLY CENTER OVER THE PIPE, PLASTISPAN H.D. BELOW GRADE RIGID INSULATION OR APPROVED EQUIVALENT, WITH OVERLAPPING JOINTS. INSULATION TO BE 1950mm WIDE AND 75mm THICK.
- 4.8. CITY OF HAMILTON TO SUPPLY AND INSTALL WATER METER BY APPOINTMENT UNDER THE WATER METER PERMIT. CONTRACTOR TO INSTALL METER SPACER (OBTAINED FROM CITY). ALL VALVES, PIPING AND REMOTE METER READOUT AT LOCATION ON BUILDING EXTERIOR ACCEPTABLE TO MUNICIPALITY. INTERNAL METERS TO BE INSTALLED AT FLOOR GRADE AS PER WM-210.
- 4.9. AS A FIRE SERVICE IS PROPOSED TO THE BUILDING, A BACKFLOW PREVENTOR MAY BE REQUIRED IN ACCORDANCE WITH THE ONTARIO BUILDING CODE. IF A BACKFLOW PREVENTOR IS REQUIRED IT MUST BE LOCATED AT THE SERVICE POINT OF ENTRY TO THE BUILDING.
- 4.10. ALL WATERMAIN TO BE PRESSURE TESTED IN ACCORDANCE WITH OPSS 441, AND HAMILTON FORM 400.10.06. ALL TESTING AND DISINFECTION TO BE COMPLETED UNDER THE SUPERVISION OF THE ENGINEER. (FOR SUBMIT WATER COMMISSIONING PLAN IN ACCORDANCE WITH CITY OF HAMILTON SPECIFICATIONS. THIS PLAN MUST BE APPROVED BY THE CITY OF HAMILTON PRIOR TO ANY WATERMAIN WORK).
- 4.11. ALL PROPOSED WATER PIPING MUST BE ISOLATED FROM EXISTING LINES IN ORDER TO ALLOW INDEPENDENT PRESSURE TESTING AND CHLORINATING FROM EXISTING SYSTEM.
- 4.11.1. WATERMAIN SHUTDOWN
- 4.11.2. MAXIMUM 4 HOUR SHUTDOWN OF EXISTING MAIN AT A TIME CONVENIENT TO THE CITY OF HAMILTON AND ABUTTING USERS.
- 4.11.3. CONTRACTOR TO GIVE 48 HOUR PRIOR NOTIFICATION USING THE "CITY OF HAMILTON NOTICE OF SHUTDOWN" FOR ALL AFFECTED AREAS.
- 4.11.4. IN THE EVENT A SCHEDULED SHUTDOWN IS CANCELLED BY THE CITY OF HAMILTON, THE CONTRACTOR SHALL HAVE NO CLAIMS AGAINST THE CITY.
- 4.12. ANCHOR OR THRUST BLOCKS ARE TO BE INSTALLED AT ALL WATER SERVICE ELBOWS, TEES, PLUGS ETC. FOR 300mm DIAMETER WATER SERVICES AND SMALLER, ANCHOR BLOCKS ARE TO BE AS PER WM-204.01, FOR WATER SERVICES GREATER THAN 300mm, ANCHOR BLOCKS ARE TO BE AS PER WM-204.02 TO WM-204.13 AS APPLICABLE.
- 4.13. PVC WATERMAIN SHALL HAVE TWO STRANDED COPPER, ANGR TRACER WIRE STRAPPED TO TOP AT 5 METRE INTERVALS. TRACER WIRE SHALL BE BROUGHT TO THE SURFACE AT ALL HYDRANTS AND CAD WELDED TO THE LOWER FLANGE OF THE PORTANT. CATHODIC PROTECTION TO BE PROVIDED FOR ALL PVC WATER SERVICE AND MAIN INSTALLATION IN ACCORDANCE WITH CITY OF HAMILTON STANDARD FORM 400.
- 4.14. ALL HYDRANTS ARE TO BE INSTALLED AS PER WM-203.01 AND ARE TO BE COMPLETE WITH A SECONDARY VALVE. SECONDARY VALVES ARE TO BE CLOSE COUPLED TO THE HYDRANT IN ALL CASES, AND ARE TO OPEN RIGHT IN THE ORIGINAL CITY OF HAMILTON (PRIOR TO AMALGAMATION), AND LEFT IN THE OTHER CITY. MUNICIPAL STRUCTURES TO REMAIN IN PLACE UNTIL ALL DISTURBED SURFACES HAVE BEEN REESTABLISHED.
- 4.15. SERVICE BOXES TO BE MUELLER H-10300 SERIES, CLOW "D" SERIES COMPLETE WITH ROD AND PLUG OR EQUIVALENT AS PER THE APPROVED WATERMAIN PRODUCTS LIST, CITY OF HAMILTON CONSTRUCTION AND MATERIAL SPECIFICATIONS MANUAL.
- 4.16. ALL CHECK VALVES TO BE CRANE SERIES 125, MODEL No. 373 (DIRECT BURY TYPE) OR APPROVED EQUIVALENT.
- 4.17. ALL UNUSED WATER SERVICES ARE TO BE PROPERLY ABANDONED.
- 4.18. ALL BACKFLOW PREVENTION DEVICES MUST BE SELECTED, INSTALLED & MAINTAINED IN ACCORDANCE WITH THE CITY OF HAMILTON'S BACKFLOW PREVENTION BY-LAW #10-103, INCLUDING THE MANUFACTURER'S SPECIFICATIONS FOR INSTALLATION ETC., AND GUIDELINES SET OUT IN THE MOST RECENT VERSIONS OF THE "AWWA CANADIAN CROSS CONNECTION CONTROL MANUAL" AND THE "CSA B64.10 / 07 / B64.10.1-07 STANDARDS". IN SELECTING A BACKFLOW DEVICE FOR A PROPERTY, CONTRACTOR MUST BE AWARE OF THE POSSIBILITY OF USES OF THE SITE WHICH COULD RESULT IN A HIGHER RISK TO THE MUNICIPAL DRINKING WATER SYSTEM, THIS MAKING THE DEVICE CHOICE INADEQUATE FOR THE NEW PURPOSE AND REQUIRING FUTURE CHANGE OUT AT THE OWNER'S EXPENSE.
5. GRADING NOTES
- 5.1. ANY CHANGES IN GRADES AND CATCH BASINS REQUIRE THE APPROVAL OF THE DIRECTOR OF DEVELOPMENT ENGINEERING, PLANNING AND ECONOMIC DEVELOPMENT DEPARTMENT.
- 5.2. FILTER FABRIC TO BE TERRAFIX 270R OR APPROVED EQUAL.
- 5.3. MAXIMUM GRASSED SLOPE TO BE 3:1. SLOPES GREATER THAN 3:1 TO BE LANDSCAPED WITH LOW MAINTENANCE GROUND COVER.
- 5.4. MINIMUM ASPHALT GRADE TO BE 1.0%, MINIMUM GUTTERLINE GRADE TO BE 0.5%.
- 5.5. CONTRACTOR TO MATCH EXISTING GRADES AT PROPERTY LINE UNLESS OTHERWISE NOTED.
- 5.6. ALL DRIVEWAYS FROM PROPERTY LINES FOR THE FIRST 7.5m SHALL BE WITHIN 5% MAX. GRADE, THEREAFTER, ALL DRIVEWAYS SHALL BE WITHIN 10% MAXIMUM GRADES.
- 5.7. PRIOR TO REMOVING ANY EXCESS SOILS FROM THE SITE, CONTRACTOR TO CONTACT THE ARCHITECT FOR DIRECTION ON CREATING EARTHEN BERMS ON-SITE.
- 5.8. ALL LANDSCAPED AREAS ARE TO HAVE A MINIMUM 2.0% SLOPE.
6. RESTORATIONS
- 6.1. ALL RESTORATIONS TO CONFORM TO HAMILTON FORM 300.30.
- 6.2. RESTORATIONS OF ROAD OVER UTILITY CUTS IN ROAD TO BE AS PER STANDARD DRAWINGS RD-100.01 AND RD-100.02, WITH GRANULAR "A" BEDDING. THE CONTRACTOR MUST BE BONDED WITH THE CITY OF HAMILTON AND MAKE AND MAINTAIN THE TEMPORARY ROAD REPAIR OVER THE CUT, WITH PERMANENT REPAIR BEING MADE BY THE CITY CONTRACTOR AT THE OWNER/OWNER'S CONTRACTOR COST.
- 6.3. ALL BOULEVARDS TO BE RESTORED WITH #1 NURSERY SOD ON A MINIMUM 100mm OF SELECT TOPSOIL.
- 6.4. CONTRACTOR SHALL CO-ORDINATE THE REMOVAL AND RESTORATION OF EXISTING PARKING MARKS AND/OR STREET SIGNS WITH THE CITY OF HAMILTON TRAFFIC DEPARTMENT.
- 6.5. ALL FENCES AFFECTED BY CONSTRUCTION SHALL BE REMOVED, TEMPORARILY RELOCATED AND/OR STOCKPILED IF APPROVED BY THE ENGINEER, AND REINSTATED UPON COMPLETION OF CONSTRUCTION.
7. SEWER ABANDONMENT NOTES
- 7.1. ALL EXISTING UNUSED SEWERS MUST BE PROPERLY ABANDONED, BY EITHER COMPLETELY REMOVING THOSE SEWERS FROM THE GROUND OR BY GROUTING EITHER END OF THE SEWER WITH A MINIMUM 300mm THICK CONCRETE PLUG.
- 7.2. UNUSED MAINTENANCE HOLES AND CATCH BASINS MUST BE COMPLETELY REMOVED.
- 7.3. OPENING IN MAINTENANCE HOLES WHERE SERVICES WERE REMOVED MUST BE BRICKED AND PARDED.
8. EROSION AND SEDIMENT CONTROL
- 8.1. CONTRACTOR TO INSTALL EROSION CONTROL MEASURES AS SHOWN PRIOR TO CONSTRUCTION AND MAINTAIN IN GOOD CONDITION UNTIL CONSTRUCTION IS COMPLETED AND VEGETATIVE COVER IS ESTABLISHED, BUT PRIOR TO FENCE BECOMING OVERGROWN. ENGINEER'S REPRESENTATIVE TO DETERMINE IF VEGETATION HAS REACHED THE CRITICAL POINT AND WILL THEN INSTRUCT CONTRACTOR TO REMOVE FENCE.
- 8.2. ALL EROSION AND SEDIMENT CONTROL MEASURES (TEMPORARY SEDIMENT CONTROL FENCES, STORM SEWER BULKHEADS, ROCK CHECK DAMS, WORK LIMIT FENCES, SEDIMENT BASINS, ETC.) MUST BE INSTALLED PRIOR TO COMMENCEMENT OF CONSTRUCTION.
- 8.3. TEMPORARY VEHICLE TRUCKING CONTROLS TO BE CONSTRUCTED AS PER REQUIREMENTS IN EROSION & SEDIMENT CONTROL GUIDELINE FOR URBAN CONSTRUCTION" DATED DECEMBER 2006, AT ALL ACCESS POINTS. CONTRACTOR SHALL MAINTAIN THESE AS REQUIRED AND AS DIRECTED BY THE CITY ENGINEER.
- 8.4. OVERLAND SHEET FLOW EROSION PROTECTION SHALL BE AS PER OPSD 219.130. IF EXCESSIVE SEDIMENT BUILDUP/BLOCKAGE OCCURS (VISUAL INSPECTION) THEN REPLACEMENT OF THE FILTER CLOTH IS REQUIRED.
- 8.5. CATCH BASIN SEDIMENT CONTROL DEVICE, I.E. "SILTSACK" BY ACF ENVIRONMENT OR APPROVED EQUIVALENT, TO BE PLACED AS PER MANUFACTURER'S RECOMMENDATIONS (SEE DETAIL). REGULAR MAINTENANCE IS REQUIRED ("SILTSACK" SUMPS SHALL BE INSPECTED FOR SEDIMENT ACCUMULATION AND FILTER CLOTH BLOCKAGE ON A WEEKLY BASIS). THESE SEDIMENT TRAPS ARE NOT TO BE REMOVED UNTIL THE CURBS AND THE BOULEVARDS SODDED. SEDIMENT TRAPS SHALL ALSO BE PLACED AS PER DETAIL AT ALL CATCH BASINS LOCATIONS IN AREAS TO BE VEGETATED AND MAINTAINED UNTIL GROUND COVER IS ESTABLISHED.
- 8.6. ALL SILT FENCING TO BE INSTALLED PRIOR TO ANY AREA GRADING, EXCAVATING OR DEMOLITION COMMENCING.
- 8.7. EROSION CONTROL FENCING TO BE INSTALLED AROUND BASE OF ALL STOCKPILES.
- 8.8. MUD MATS TO BE PROVIDED ON-SITE AT ALL LOCATIONS WHERE CONSTRUCTION VEHICLES EXIT THE SITE. MUD MATS SHALL BE A MINIMUM OF 3.0m LONG, 15.0m LONG (LENGTH MAY VARY DEPENDING ON SITE LAYOUT) AND 0.3m DEEP AND SHALL CONSIST OF 200mm CLEAR STONE MATERIAL OR APPROVED EQUIVALENT. PROPOSED EROSION PROTECTION TO BE INTO MUD MAT. CONTRACTOR TO ENSURE ALL VEHICLES LEAVE THE SITE VIA THE MUD MAT AND THAT THE MAT IS MAINTAINED IN A MANNER TO MAXIMIZE EFFECTIVENESS AT ALL TIMES.
- 8.9. TOPSOIL PILES SHALL BE TEMPORARILY SEEDED TO PREVENT EROSION. PLACEMENT OF VEGETATION SHALL BE IN ACCORDANCE WITH OPSS 572. WHERE REQUIRED, EROSION CONTROL BLANKETS SHALL BE PLACED AS PER OPSS 572, AT THE DIRECTION OF THE CITY ENGINEER.
- 8.10. ADDITIONAL EROSION CONTROL MEASURES MAY BE REQUIRED AS SITE DEVELOPMENT PROGRESSES. CONTRACTOR TO PROVIDE ALL ADDITIONAL EROSION CONTROL STRUCTURES. EROSION CONTROL STRUCTURES TO REMAIN IN PLACE UNTIL ALL DISTURBED SURFACES HAVE BEEN REESTABLISHED.
- 8.11. NO ALTERNATE METHODS OF EROSION PROTECTION SHALL BE PERMITTED UNLESS APPROVED BY THE ENGINEER AND THE CITY OF HAMILTON DEPARTMENT OF PUBLIC WORKS.
- 8.12. CONTRACTOR TO CLEAN ROADWAY AND SIDEWALKS OF SEDIMENTS RESULTING FROM CONSTRUCTION TRAFFIC FROM THE SITE EACH DAY.
- 8.13. ALL DISTURBED AREAS NOT SCHEDULED FOR FURTHER CONSTRUCTION WITHIN 45 DAYS WILL BE PROVIDED WITH A SUITABLE TEMPORARY MULCH AND SEED COVERED WITHIN 7 DAYS OF THE COMPLETION OF THAT PARTICULAR PHASE OF CONSTRUCTION.
- 8.14. ALL DISTURBED EXTERNAL AREAS SHALL BE REVEGETATED WITH PERMANENT COVER (AS DETAILED) WITHIN 7 DAYS OF THE COMPLETION OF THAT PARTICULAR PHASE OF CONSTRUCTION.
- 8.15. ADDITIONAL EROSION AND SEDIMENT CONTROL LOCATIONS/ MEASURES MAY BE REQUIRED AS DETERMINED BY THE CITY/CONSERVATION AUTHORITY.
9. MAINTENANCE RECOMMENDATIONS
- 9.1. DURING THE COURSE OF CONSTRUCTION CONTRACTOR TO REMOVE SEDIMENT AND CONTAMINANTS FROM STORMWATER MANAGEMENT FACILITIES MONTHLY, FOLLOWING CONSTRUCTION CONTRACT COMPLETION, OWNER TO HIRE QUALIFIED CONTRACTOR TO REMOVE SEDIMENT AND CONTAMINANTS ANNUALLY AND REINSTATE STORMWATER MANAGEMENT FACILITIES ACCORDING TO THE DESIGN OUTLINED ON THIS PLAN, AS REQUIRED.
- 9.2. ALL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE VISUALLY INSPECTED AFTER EACH WORKING DAY AND MAINTAINED WHEN REQUIRED AS DIRECTED BY THE CONSULTANT AND TO THE SATISFACTION OF THE CITY/CONSERVATION AUTHORITY. THE CONSULTANT SHALL KEEP A DAILY RECORD OF INSPECTION, MAINTENANCE, ETC. AND PRESENT THE CITY WITH A COPY OF REPORT ON A MONTHLY BASIS.
- 9.3. OWNER'S REPRESENTATIVE TO MONITOR EROSION CONTROL STRUCTURES TO ENSURE FENCING IS INSTALLED AND MAINTENANCE IS PERFORMED TO CITY REQUIREMENTS.
- 9.4. THE PROPOSED STORMCEPTOR(DGS) WILL REQUIRE REGULAR ANNUAL MAINTENANCE. OWNER TO ENTER INTO A MAINTENANCE AGREEMENT WITH A SUITABLE CONTRACTOR TO COMPLETE THIS WORK.
- 9.5. REGULAR MAINTENANCE FOR ALL CATCH BASINS (ON THE PUBLIC ROADWAY AND ON PRIVATE PROPERTY) AND INLET CHAMBERS IS REQUIRED (SEDIMENT TRAPS AND SUMPS SHALL BE INSPECTED FOR SEDIMENT ACCUMULATION, TRASH BUILDUP AND FILTER CLOTH BLOCKAGE ON A WEEKLY BASIS) AND AFTER EACH MAJOR RAINFALL EVENT, ACCUMULATED SEDIMENT SHALL BE REMOVED BY MECHANICAL MEANS. FLUSHING OF SEDIMENT INTO THE STORMWATER SEWER SYSTEM IS PROHIBITED. IF STANDING WATER REMAINS IN THE CATCH BASIN 24 HOURS (MINIMUM) AFTER A STORM THEN CLEANING OR REPLACEMENT CLOTH IS REQUIRED.



ASPHALT JOINT DETAIL



DESIGNATED ACCESS FOR ALL CONSTRUCTION TRAFFIC. INSTALL 'MUD MAT', AS PER DETAIL BELOW, PRIOR TO ANY OTHER CONSTRUCTION. MAT TO BE MAINTAINED IN GOOD WORKING ORDER UNTIL GRADING WORKS ARE COMPLETED AND ROAD BASE HAS BEEN CONSTRUCTED.

CONSTRUCTION ACCESS DETAIL

PAVEMENT STRUCTURE (ASPHALT AND/OR GRANULAR), OR SELECT NATIVE MATERIAL AND TOPSOIL, AS SPECIFIED ON DRAWINGS

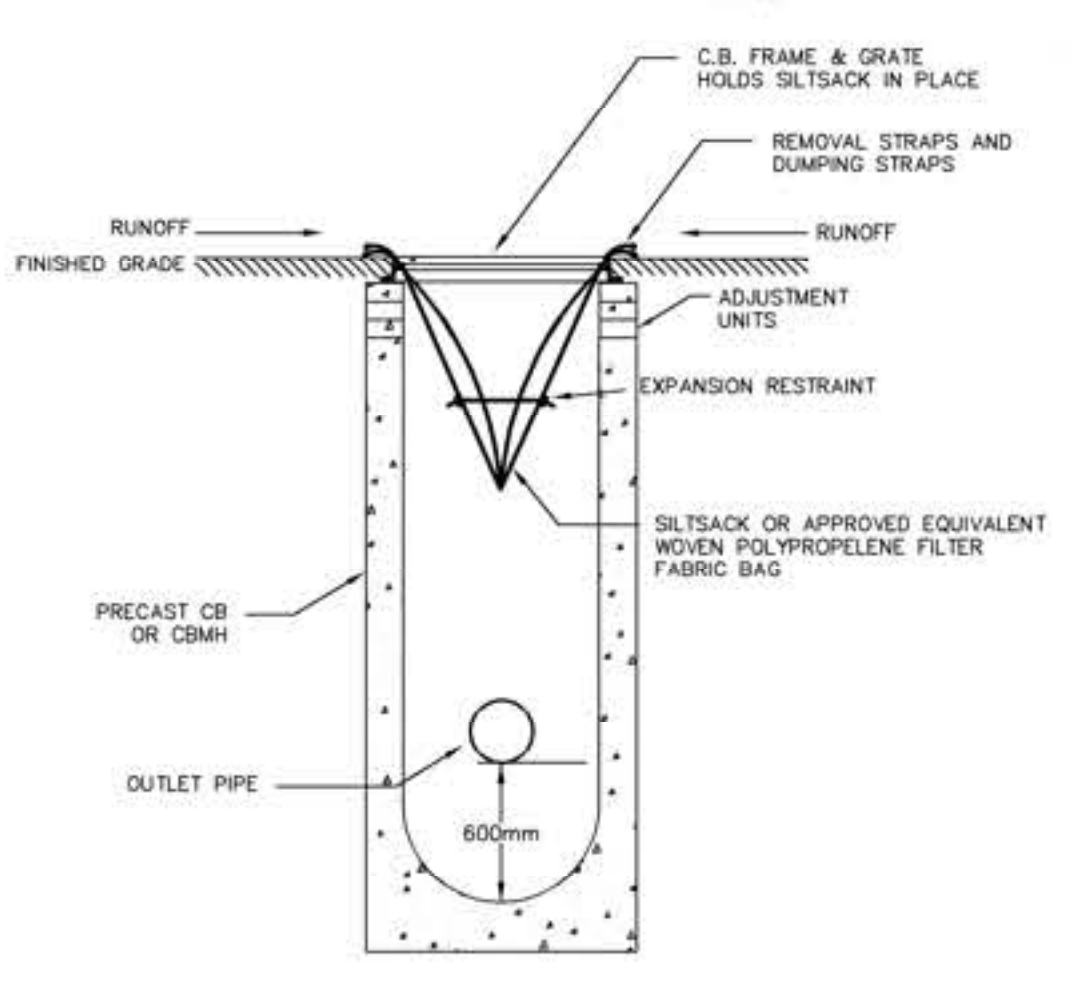
RIGID EPS-INSULATION BOARD PER SPECIFICATION NOTES (MINIMUM R10-THICKNESS, TYPICALLY 50-65mm)

NOTE: TRENCH SIDE SLOPES SHALL BE MAXIMUM 1:1 SLOPE, NO VERTICAL SECTIONS ALLOWED UNLESS INDICATED IN DETAIL

NATIVE SOILS - WHERE NATIVE SOIL IS SOFT AND/OR OF ORGANIC CONTENT, REMOVED TO DEPTH OF 150mm OF PIPE INSULATION TO BE MAXIMUM 1:1 SLOPE, NO VERTICAL SECTIONS ALLOWED UNLESS INDICATED IN DETAIL

FROST DEPTH - PROTECT SOIL ZONE UNDER PIPE FROM FREEZING REFER TO OPSD 3400.011 FOR SPECIFIC LOCAL FROST DEPTH

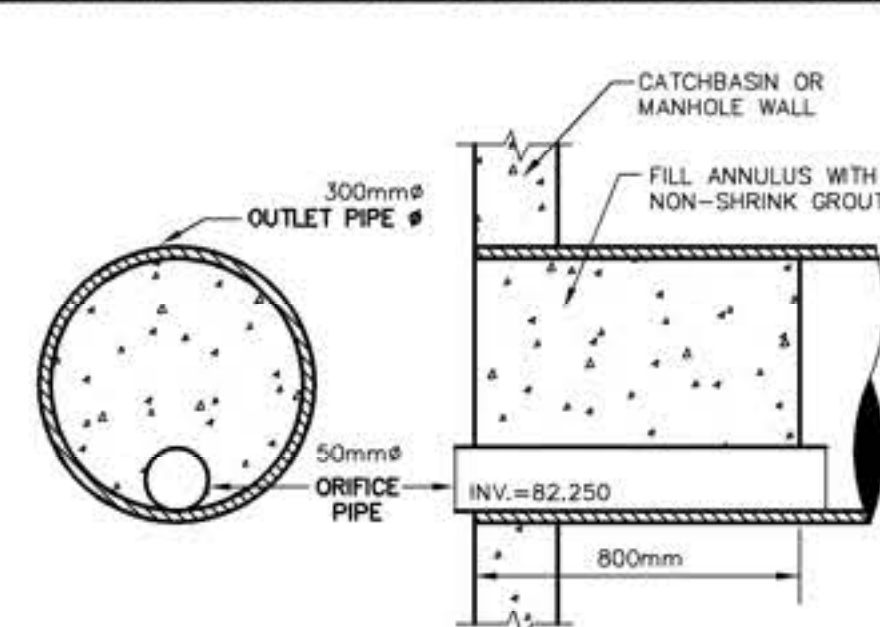
SEWER PIPE INSULATION DETAIL
FOR SEWER PIPES HAVING LESS THAN 1200mm COVER AND MINIMUM 615mm COVER
N.T.S.



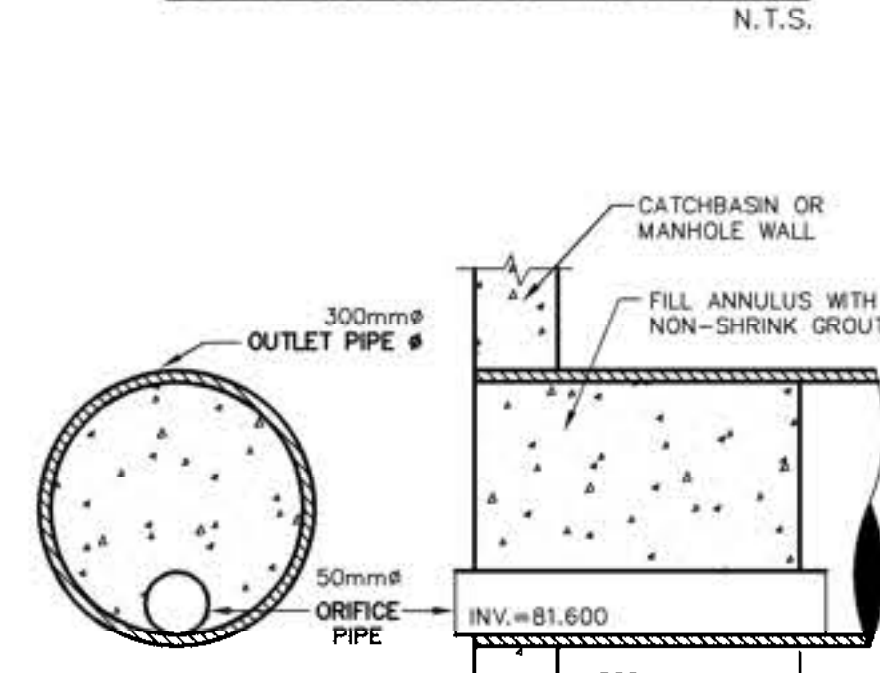
MAINTENANCE SCHEDULE

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

TEMPORARY SILTSACK SILTATION CONTROL IN CB



ON-LINE GROUTED ORIFICE DETAIL
BETWEEN MH100 AND OGS1



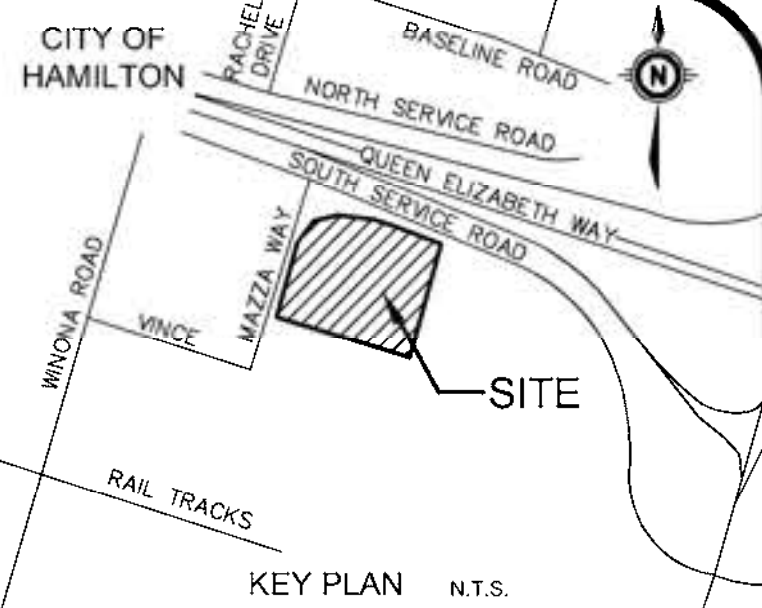
ON-LINE GROUTED ORIFICE DETAIL
BETWEEN MH200 AND OGS2



PAVEMENT STRUCTURE

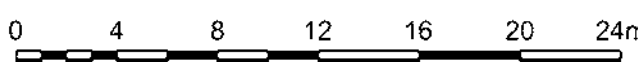
MATERIAL	RECOMMENDED THICKNESS	
	LIGHT TRAFFIC	HEAVY TRAFFIC
ASPHALTIC CONCRETE	HL3 HL4 or HL8	40mm 60mm
GRANULAR 'A' BASE	150mm	150mm
GRANULAR 'B' SUBBASE	450mm	450mm

BASED ON GEOTECHNICAL INVESTIGATION PREPARED BY: Company Name - Date



GEODETIC BM ELEV. = m
REFER TO DRAWING CREATED BY SURVEYORS ON SITE INC. DATED FEBRUARY 3, 2026.

SITE BENCHMARK ELEV. = m
REFER TO DRAWING CREATED BY SURVEYORS ON SITE INC. DATED FEBRUARY 3, 2026.



NOTE TO CONTRACTOR:

DO NOT SCALE DRAWINGS.

CONTRACTORS MUST CHECK AND VERIFY ALL DIMENSIONS AND REPORT ANY DISCREPANCIES TO THE ENGINEER BEFORE PROCEEDING WITH THE WORK.

ALL DRAWINGS REMAIN THE PROPERTY OF THE ENGINEER AND SHALL NOT BE REPRODUCED OR REUSED WITHOUT THE ENGINEER'S WRITTEN PERMISSION.

THE OWNER/ARCHITECT/CONTRACTOR IS ADVISED THAT M.T.E. CONSULTANTS INC. CANNOT CERTIFY ANY COMPONENT OF THE SITE WORKS NOT INSPECTED DURING CONSTRUCTION. IT IS THE RESPONSIBILITY OF THE GENERAL CONTRACTOR TO NOTIFY M.T.E. CONSULTANTS INC. PRIOR TO COMMENCEMENT OF CONSTRUCTION TO ARRANGE FOR INSPECTION.

NOTE:

1. PROPERTY LINE IS APPROXIMATE ONLY AND SHOULD NOT BE USED FOR DETERMINING SETBACKS OR LAYOUT.
2. EXISTING TOPOGRAPHICAL INFORMATION PROVIDED BY SURVEYORS ON SITE INC., DATED FEBRUARY 11, 2026.
3. THIS PLAN IS PART OF A SET OF PLANS WHICH COMPRISE OF C1.1, C1.2, C2.1, C2.2, C2.3 & C2.4.
4. INVERTS ARE APPROXIMATE ONLY, CONTRACTOR TO FIELD VERIFY AND REPORT ANY DISCREPANCIES TO ENGINEER.

1	ISSUED FOR ZBA	AXIS	2026-08-26
No.	REVISION/ISSUANCE	BY	YVYV-MR-00



CLIENT

LIVWELL DEVELOPMENTS

499 BRANT STREET BURLINGTON

PROJECT

1310 SOUTH SERVICE ROAD

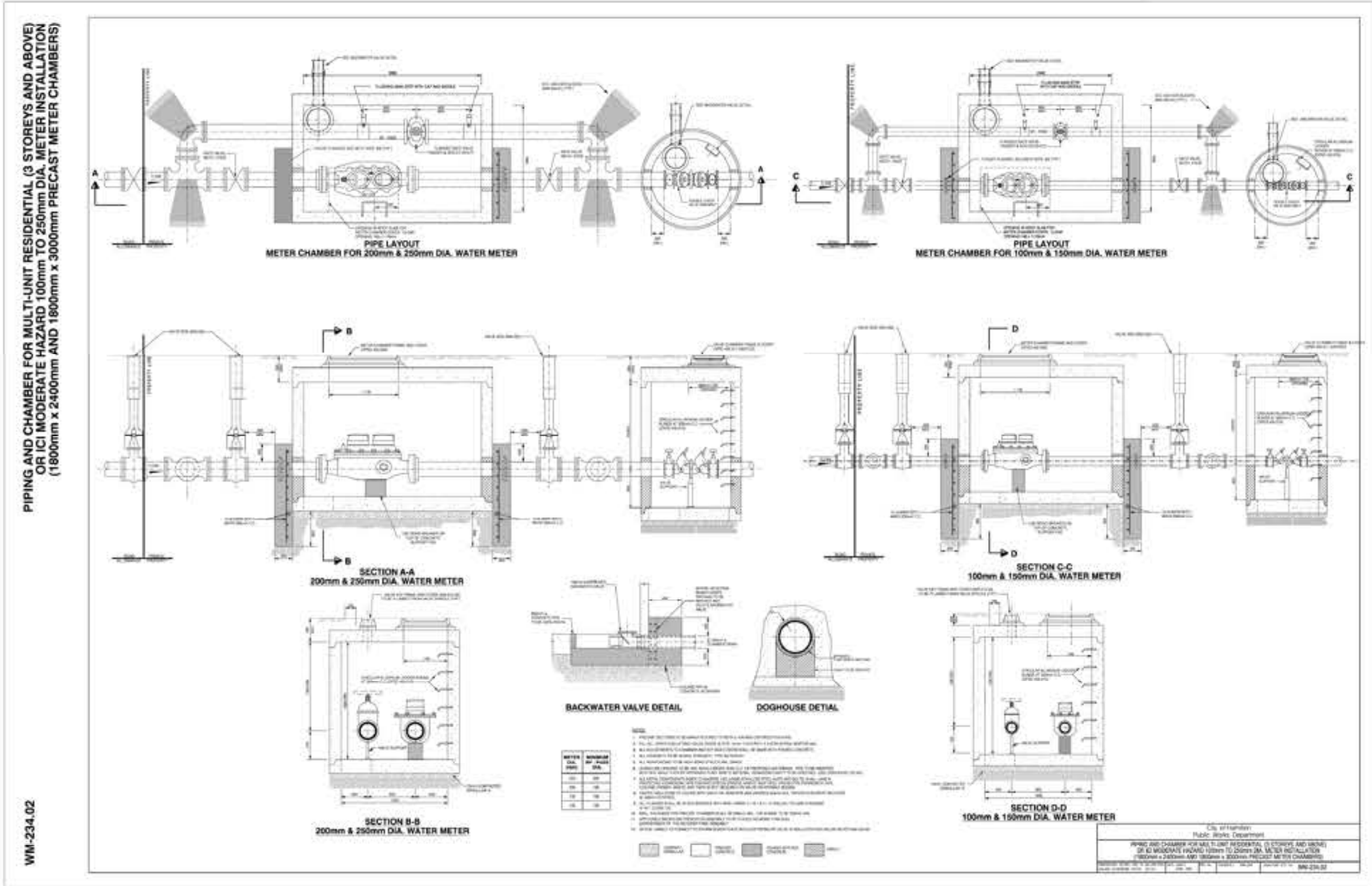
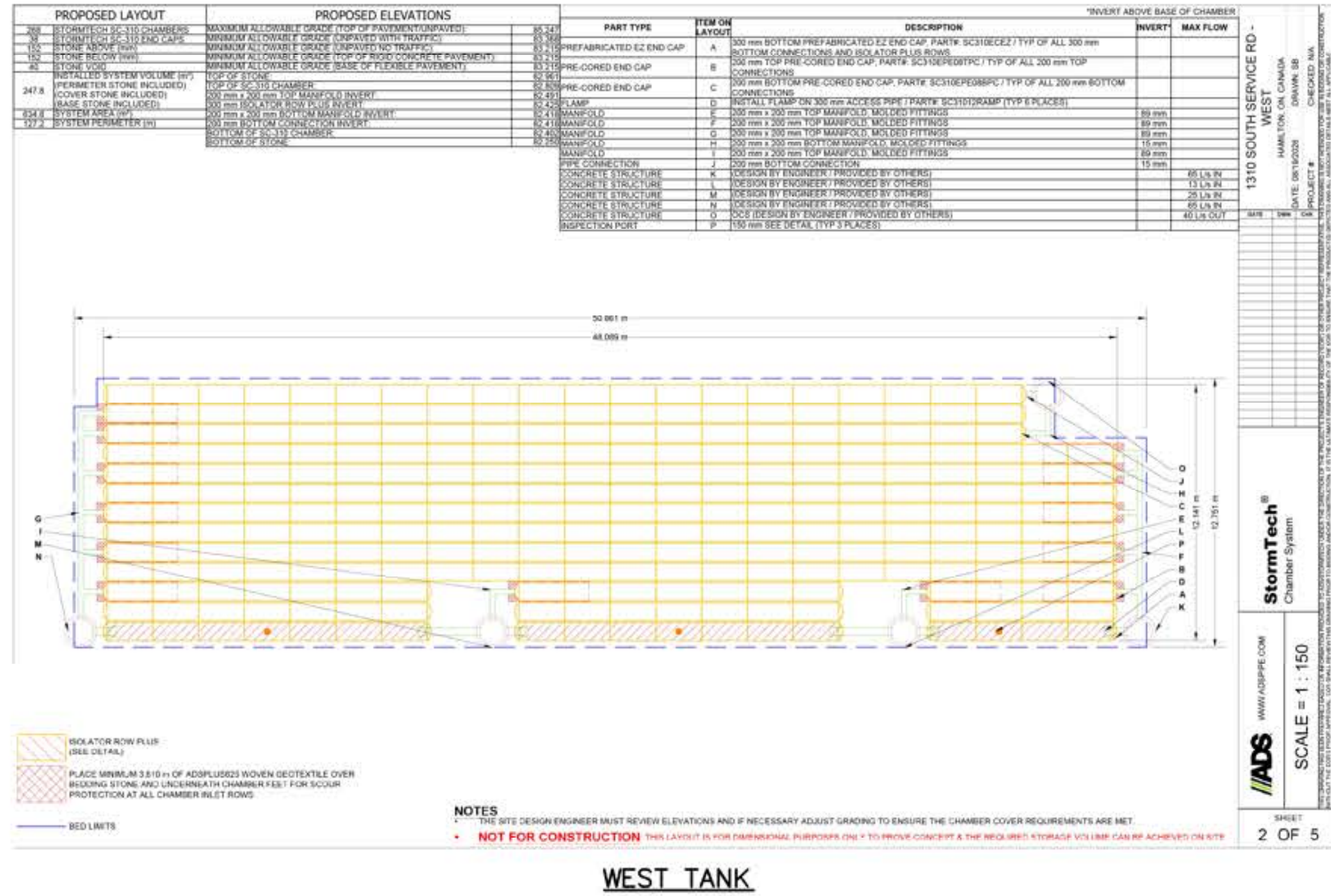
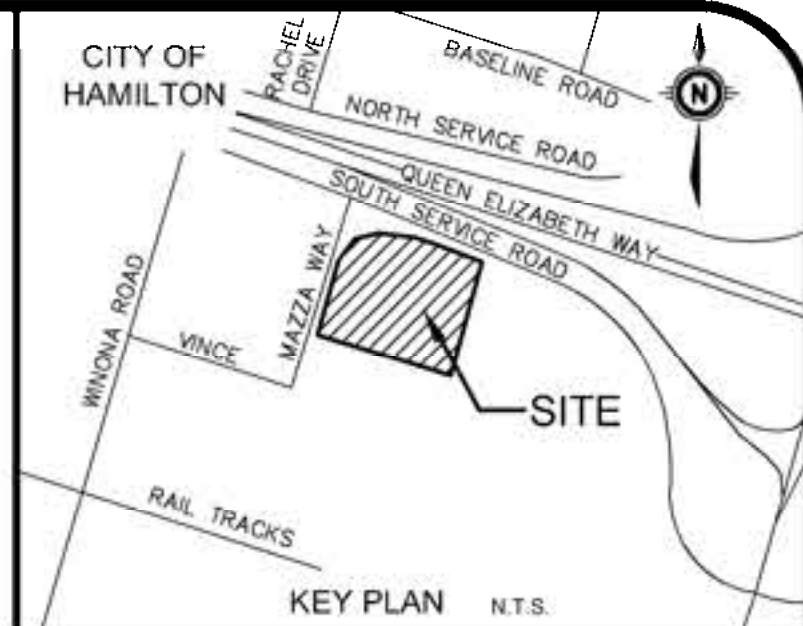
HAMILTON ONTARIO

DRAWING

NOTES & DETAILS PLAN

Design By	LJF	Project Manager	A.SAWATSKY
Drawn By	GLO/GCC	Project No.	65075_001
Checked By	AXS	Drawing No.	
Date	2026-05-15		
Scale	1:300	Sheet	5 of 6

C2.3



GEODETIC BM ELEV. = m
REFER TO DRAWING CREATED BY SURVEYORS ON SITE INC. DATED FEBRUARY 3, 2026.

SITE BENCHMARK ELEV. = m
REFER TO DRAWING CREATED BY SURVEYORS ON SITE INC. DATED FEBRUARY 3, 2026.



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1	ISSUED FOR ZBA	AXIS	2026-08-26
No.	REVISION/ISSUANCE	BY	YVYV-MHGD



CLIENT

LIVWELL DEVELOPMENTS

499 BRANT STREET BURLINGTON

PROJECT

1310 SOUTH SERVICE ROAD

HAMILTON ONTARIO

DRAWING

Design By	LJF	Project Manager	A. SAWATSKY
Drawn By	GLC/GCC	Project No.	65075_001
Checked By	AXS	Drawing No.	C2.4
Date	2026-05-15		
Scale	1:300	Sheet	6 of 6

