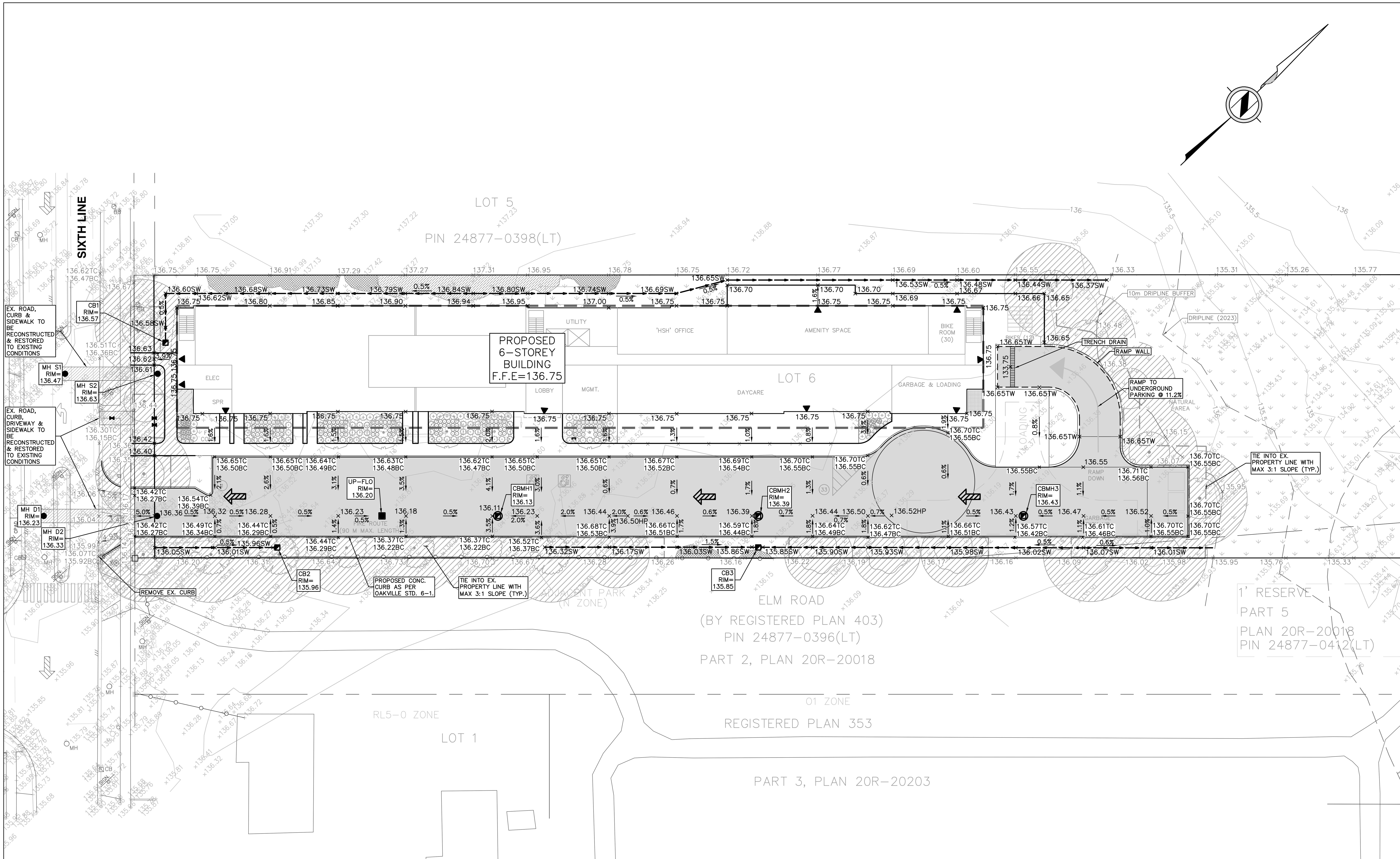
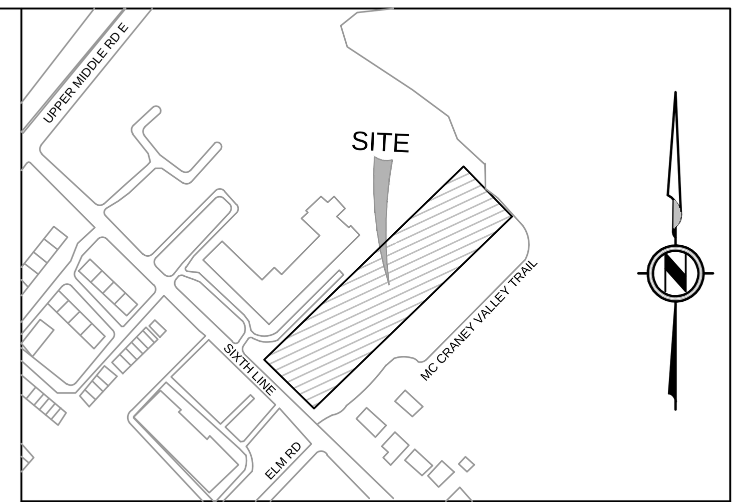




LEGEND

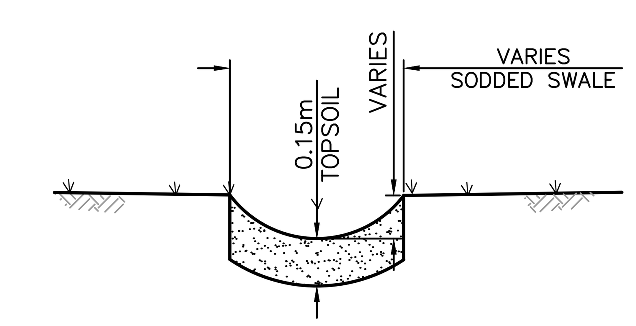
- PROPERTY LINE
- BARRIER CURB
- EX. EDGE OF ASPHALT
- PROPOSED ASPHALT
- PROPOSED SWALE
- ROAD RESTORATION
- EXISTING ELEVATION — 135.00 ×
- PROPOSED ELEVATION — 135.00 ×
- PROPOSED TOP OF CURB — 135.00TC ×
- PROPOSED BOTTOM OF CURB — 135.00BC ×
- PROPOSED SWALE ELEVATION — 135.00SW ×
- PROPOSED HIGH POINT — 135.00HP ×
- PROPOSED GRADE — 2.0%
- BUILDING ENTRANCE
- EXISTING OVERLAND FLOW ROUTE
- PROPOSED OVERLAND FLOW ROUTE
- EXISTING/PROPOSED CATCH BASIN
- EXISTING/PROPOSED CATCH BASIN MANHOLE
- EXISTING/PROPOSED MANHOLE

GENERAL NOTES:

1. CONTRACTOR TO VERIFY THE LOCATION AND INVERTS OF EXISTING WATER, STORM AND SANITARY CONNECTIONS TO THE SITE. REPORT TO THE ENGINEER ANY DISCREPANCIES PRIOR TO START OF CONSTRUCTION.
2. ALL BUILDINGS & ROADS ARE TO BE LOCATED BY CO-ORDINATES AS CALCULATED BY A ONTARIO LAND SURVEYOR.
3. THE CONTRACTOR MUST CONTACT THE ENGINEER PRIOR TO CONSTRUCTION TO SCHEDULE AN ON-SITE PRE-CONSTRUCTION MEETING DURING WHICH CONSTRUCTION METHODS, TIMING, AND INSPECTION WILL BE DISCUSSED.
4. NO ROOFTOP STORAGE PROPOSED
5. THE DEPTH OF PONDING AND DEPTH OF FLOW WILL NOT EXCEED 0.3m.

SITE GRADING:

1. ALL DIMENSIONS AND ELEVATIONS ARE IN METERS UNLESS OTHERWISE NOTED.
2. ALL ELEVATIONS ARE TO GEODETIC DATUM.
3. ALL EXCAVATION, FILL PLACEMENT AND COMPACTION TO BE IN ACCORDANCE WITH GEOTECHNICAL CONSULTANTS REPORT.
4. CONTRACTOR TO EMPLOY GEOTECHNICAL CONSULTANT FOR PERFORMANCE OF IN PLACE TESTING DURING THE PREPARATION OF THE SUBGRADE AND CONSTRUCTION OF THE ROAD STRUCTURE TO VERIFY THE ADEQUACY OF PROPOSED ROAD STRUCTURE AND SUBGRADE.
5. CHANGES TO GRADE SHALL BE FORMED BY SMOOTH CURVES.
6. IT IS THE RESPONSIBILITY OF THE APPLICANT TO ENSURE COMPLIANCE WIT ALL APPLICABLE PROVINCIAL STANDARDS AND TO OBTAIN ALL PROVINCIAL APPROVALS, INCLUDING BUT NOT LIMITED TO ENVIRONMENTAL COMPLIANCE APPROVALS.



TYPICAL SWALE DETAIL
N.T.S.

NOTICE TO CONTRACTOR

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REV	MM/DD/YY	DESCRIPTION	BY	APP
2	08/29/2025	FIRST SPA SUBMISSION	IA	JC
1	07/04/2025	ISSUED FOR COORDINATION	IA	JC

LICENSED PROFESSIONAL ENGINEER
J.M. CESARIO
100525531
2025-09-02
PROVINCE OF ONTARIO

ENGINEER STAMP

PLAN OF SURVEY OF LOT 6 AND BLOCK A, REGISTERED PLAN 403
TOWN OF OAKVILLE
REGIONAL MUNICIPALITY OF HALTON

LEGAL DESCRIPTION

ELEVATIONS ARE REFERRED TO THE TOWN OF OAKVILLE BENCHMARK No 227, LOCATED ON SOUTH END OF CONCRETE DOOR SILL AT 1334 SIXTH LINE, HAVING AN ELEVATION OF 131.831m.
VERTICAL DATUM: CANADIAN GEODETIC DATUM, 1928 (PRE: 1978 SOUTHERN ONTARIO READJUSTMENT)

BENCHMARK

APLIN MARTIN
Aplin & Martin Consultants Ltd.
354 Davis Road, Suite 403, Oakville, ON, L6J 2X2
Tel: (905) 582-0630, Fax: (416) 644-1889, Email: general@aplinmartin.com

CLIENT
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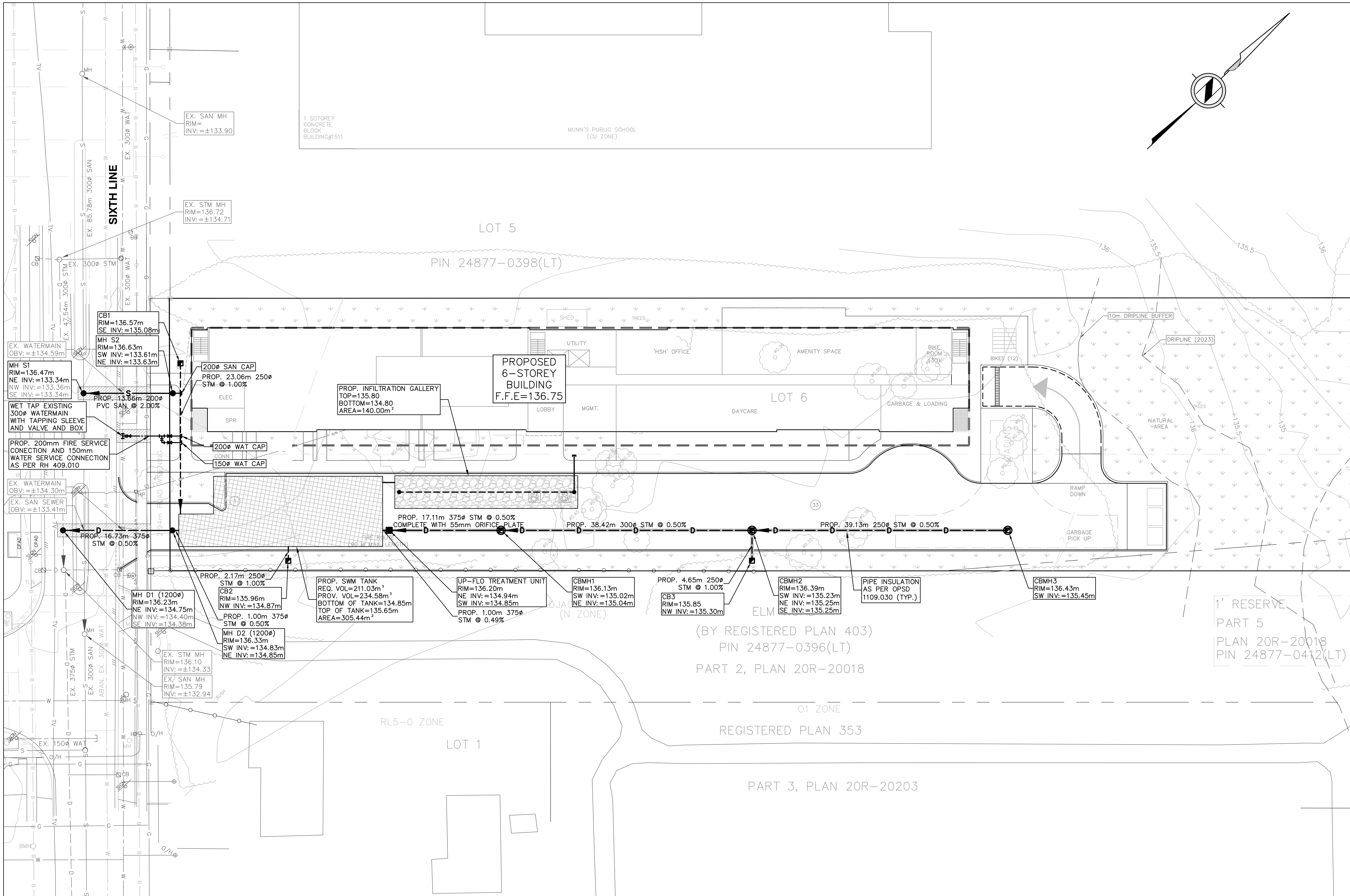
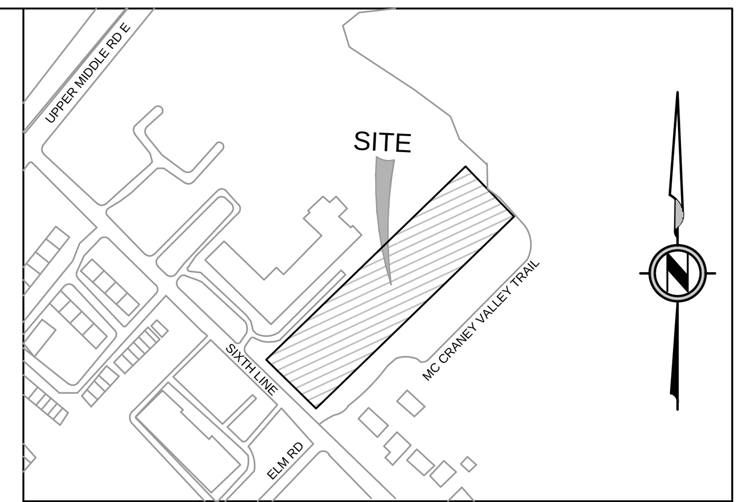
PROJECT
MIXED USE RESIDENTIAL DEVELOPMENT
1493 SIXTH LINE, OAKVILLE, ON, L6H 1X8

DRAWING TITLE
GRADING PLAN

DESIGN: IA	DATE: JUNE 2025	SCALE: 1:300
DRAWN: HS	PROJECT NO.: 25-7018	
CHECKED: JC	DRAWING NO.: C01	REV.: 2
APPROVED: JC		

0 3 1:300 15m





LEGEND

PROPERTY LINE	
EXISTING SANITARY	S
EXISTING STORM	D
EXISTING WATER	W
PROPOSED STORM	D
PROPOSED SANITARY	S
PROPOSED WATER SERVICE	
EXISTING OVERHEAD HYDRO	
PROPOSED PIPE INSULATION	
EXISTING/PROPOSED SAN MANHOLE	
EXISTING/PROPOSED STM MANHOLE	
EXISTING/PROPOSED CATCH BASIN	
PROPOSED CATCH BASIN MANHOLE	
EXISTING HYDRO POLE	
EXISTING FIRE HYDRANT	
EXISTING METER CHAMBER	M
EXISTING GATE VALVE	
PROPOSED GATE VALVE	
EXISTING GAS	G
EXISTING UG BELL NETWORK	B
EXISTING UG TV NETWORK	TV
EXISTING WATERMAIN	W
ABANDONED WATERMAIN	W
PROPOSED WATERMAIN	W
PROPOSED WATER SERVICE	
PROPOSED BARRIER CURB	
EXISTING CONCRETE SIDEWALK	

REV	MM/DD/YY	DESCRIPTION	BY	APP
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PROJECT

MIXED USE RESIDENTIAL DEVELOPMENT

1493 SIXTH LINE, OAKVILLE, ON, L6H 1X8

DRAWING TITLE

SERVICING PLAN

NOTICE TO CONTRACTOR

IT IS THE RESPONSIBILITY OF THE CONTRACTOR'S SURVEYOR TO VERIFY THAT ALL LEGAL SURVEY DIMENSIONS SHOWN ON THE ENGINEERS DRAWINGS AGREE WITH THOSE ON THE REGISTERED LEGAL SURVEY PLAN. SHOULD THERE BE ANY DISCREPANCIES, THEN IMMEDIATELY NOTIFY THE ENGINEER OF RECORD

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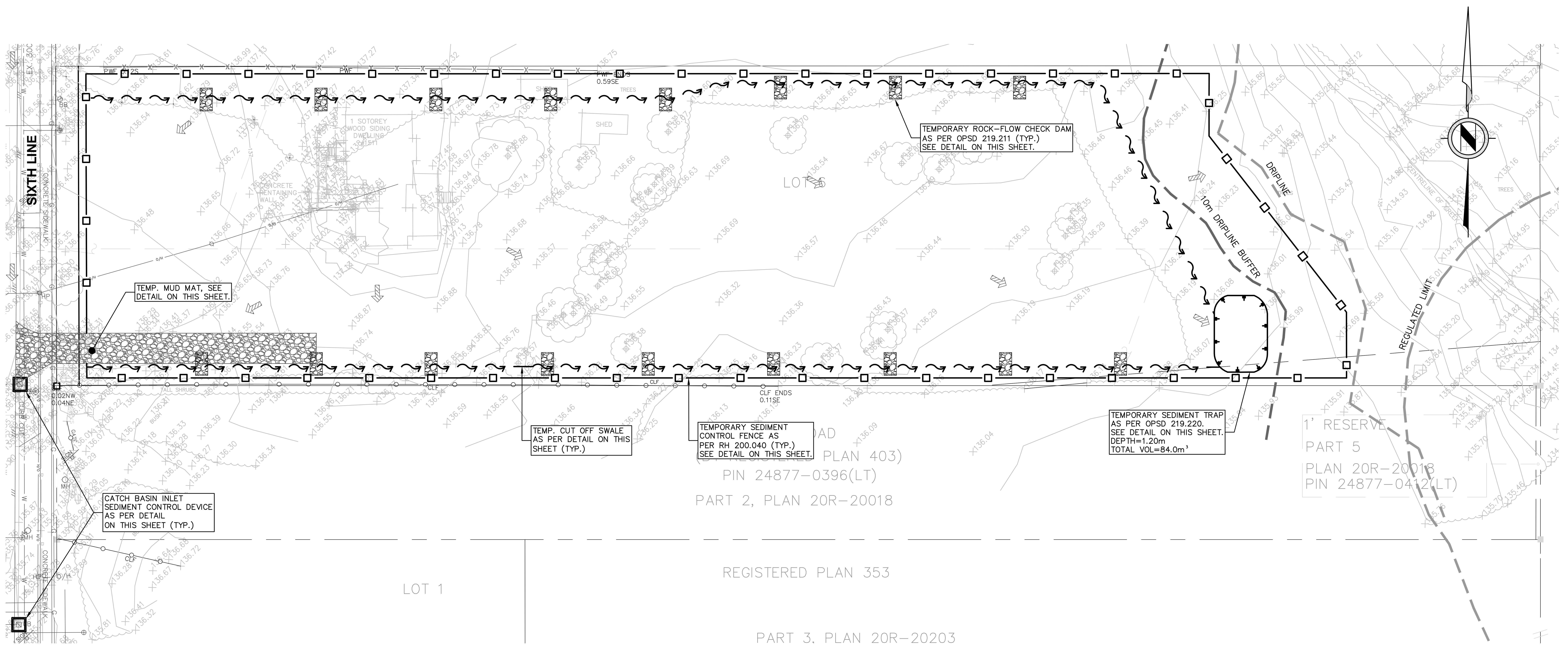
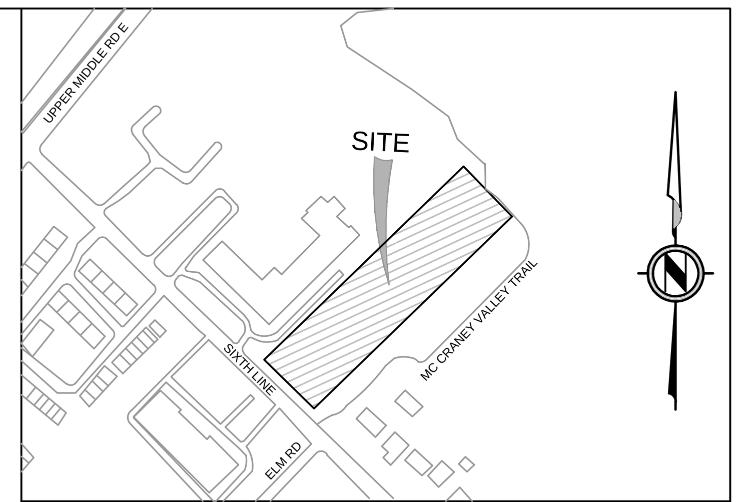
DESIGN	DATE	SCALE
IA	JUNE 2025	1:300
DRAWN	PROJECT NO.	
HS	25-7018	
CHECKED	DRAWING NO.	REV.
JC	C02	2
APPROVED		
JC		

0 3 1:300 15m



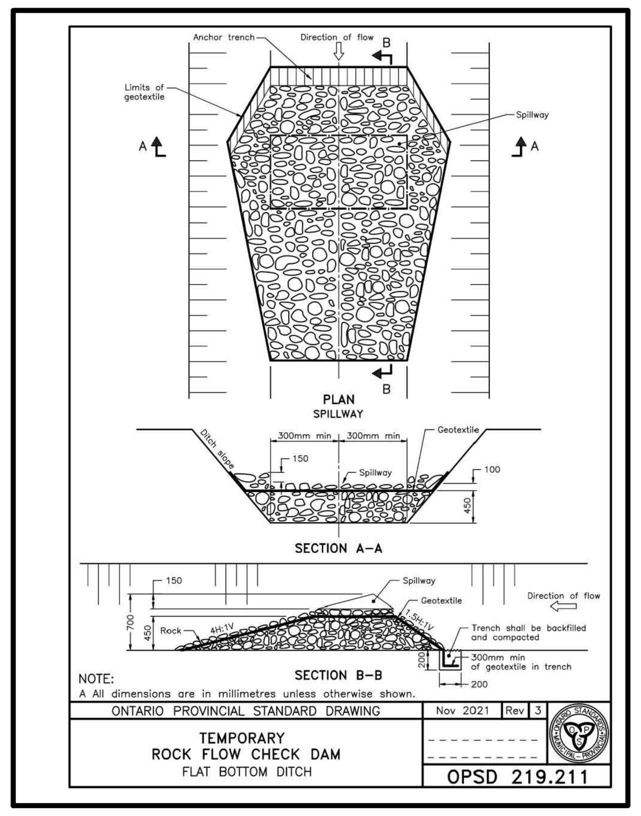


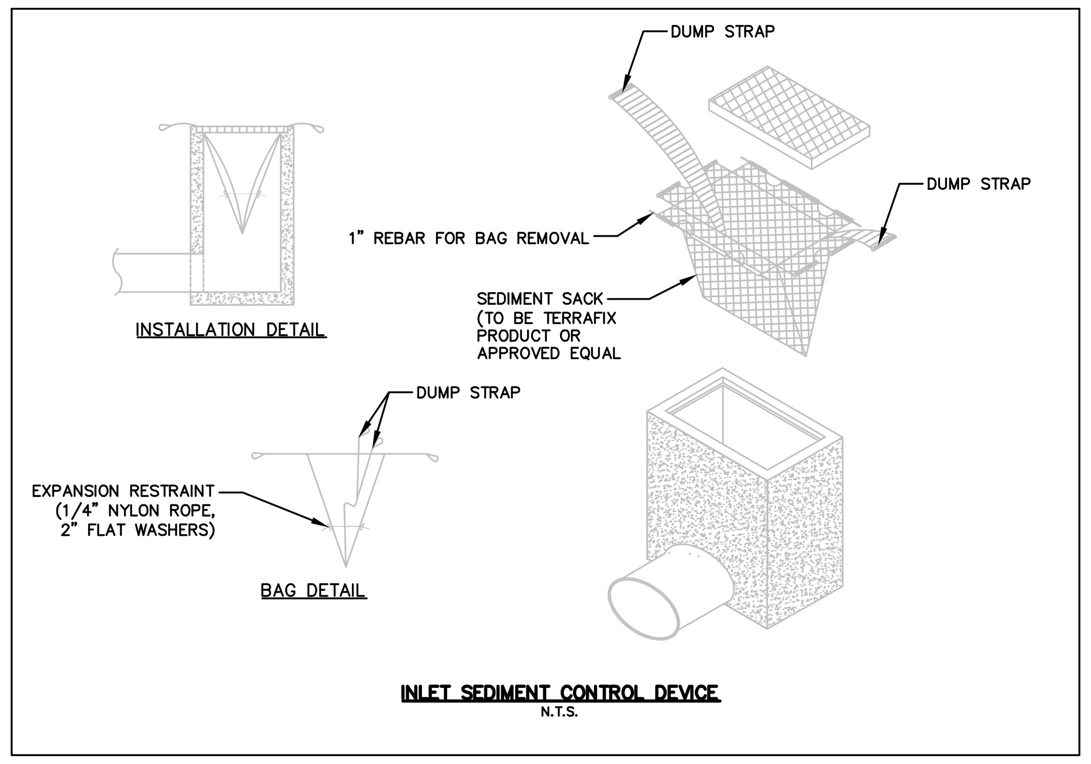
LEGEND

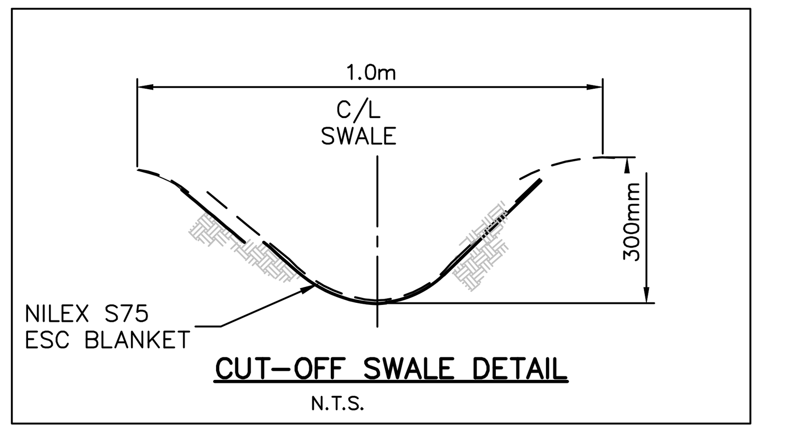
PROPERTY LINE	
PROPOSED SILT FENCE	
PROPOSED SWALE	
PROPOSED TOP OF BANK	
PROPOSED BOTTOM OF BANK	
CULVERT	
EXISTING CONTOURS	250.5
EXISTING CATCH BASINS PROTECTION	
EXISTING OVERLAND FLOW ROUTE	
EXISTING ELEVATION	x136.04
TEMPORARY MUD MAT	

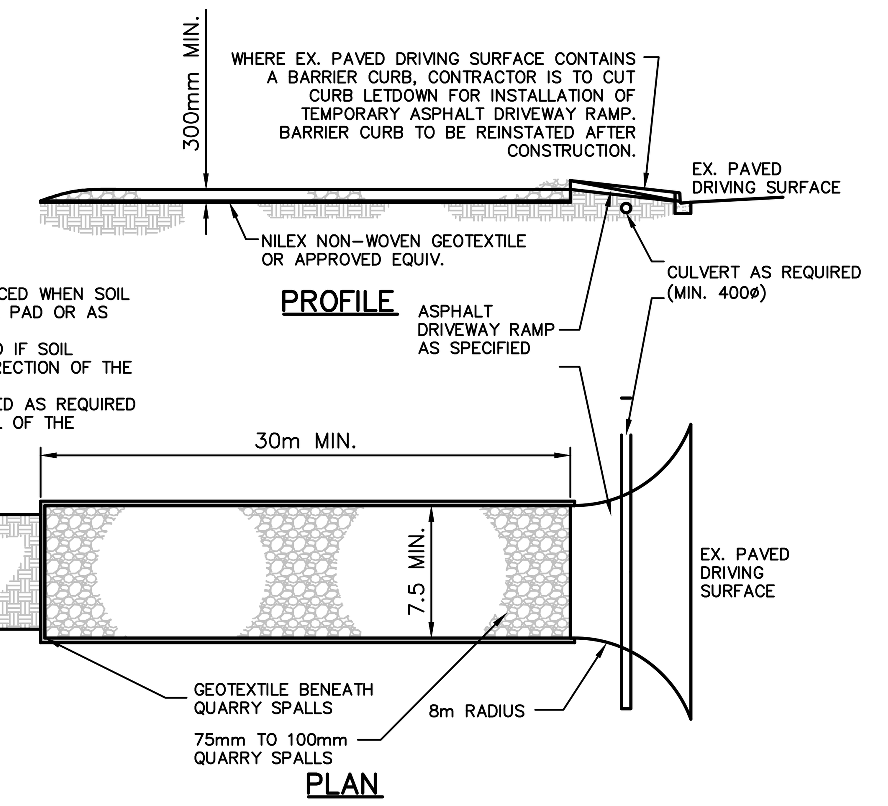
EROSION & SEDIMENT CONTROL NOTES:

1. THE CONTRACTOR SHALL ENDEAVOUR TO PREVENT MUD TRACKING ONTO EXISTING RIGHTS–OF WAY AND SHALL PROVIDE FOR CLEAN UP AT HIS OWN EXPENSE AS DIRECTED BY THE ENGINEER. THE CONTRACTOR SHALL ALSO BE RESPONSIBLE TO CONTROL DUST IN THE PROJECT AND HE SHALL PROVIDE, AT HIS OWN EXPENSE, CONTROLLING MEASURES AS DIRECTED BY THE ENGINEER AND THE TOWN.
2. ALL EXTERNAL AREAS DISTURBED DUE TO CONSTRUCTION SHALL BE RESTORED TO THEIR ORIGINAL CONDITION OR BETTER TO THE SATISFACTION OF THE TOWN.
3. PRIOR TO THE COMMENCEMENT OF SITE GRADING WORKS, ALL SILTATION CONTROL DEVICES SHALL BE INSTALLED AND OPERATIONAL. THE EXACT LOCATION TO BE DETERMINED IN THE FIELD AND APPROVED BY THE TOWN OF OAKVILLE. THE CONTRACTOR SHALL MAINTAIN ALL WORKS UNTIL SERVICING CONSTRUCTION IS COMPLETED TO THE SATISFACTION OF THE ENGINEER AND THE TOWN OF OAKVILLE.
4. ALL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE ROUTINELY INSPECTED AND MAINTAINED IN PROPER WORKING ORDER AND CLEANED PERIODICALLY AS REQUIRED BY THE COMISSIONER OF ENGINEERING.
5. ALL CONSTRUCTION VEHICLES SHALL EXIT THE SITE VIA THE TEMPORARY CONSTRUCTION ACCESS.
6. SILT CONTROL FENCE TO REMAIN IN PLACE UNTIL THE WORKING AREA HAS BEEN STABILIZED AND VEGETATED, TO THE SATISFACTION OF THE TOWN OF OAKVILLE.
7. CONTRACTOR TO CLEAN ADJACENT ROADS ON A REGULAR BASIS OF THE SATISFACTION OF THE AFFECTED AUTHORITY.
8. THE LOCATION AND ELEVATION OF ALL EXISTING SERVICES AND UTILITIES ARE TO BE VERIFIED IN THE FIELD BY THE CONTRACTOR AT THEIR EXPENSE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE RESTORATION AND / OR REPAIR OF EXISTING UTILITIES DISTURBED DURING CONSTRUCTION.
9. ALL WORK SHALL BE COMPLETED IN ACCORDANCE WITH THE "OCCUPATIONAL HEALTH AND SAFETY ACT AND REGULATIONS FOR CONSTRUCTION PROJECTS." THE GENERAL CONTRACTOR SHALL BE DESIGNATED AS THE CONSTRUCTOR AS IN THE ACT.
10. IF ANY AREA OF THE SITE IS SCHEDULED TO REMAIN UNTOUCHED FOR THE MORE THAN 30 DAYS, IT SHOULD BE SEEDED IMMEDIATELY.
11. ALL WORKS TO BE IN ACCORDANCE WITH TOWN OF OAKVILLE BY–LAW 2003–021
12. THE EROSION AND SEDIMENT CONTROLS SHALL BE MODIFIED AS NECESSARY AND IN AN APPROPRIATE FASHION TO ENSURE ADEQUATE PROTECTION OF THE RECEIVING WATERCOURSE AND NATURAL HERITAGE SYSTEM.
13. EROSION & SEDIMENT CONTROLS WITHIN THE REGULATED AREA MUST BE INSTALLED, MAINTAINED AND REMOVED TO THE SATISFACTION OF CONSERVATION AHLTON. CONSERVATION HALTON DOES NOT REQUIRE THAT THE EXACT LOCATION BE DETERMINED IN THE FIELD IN CONSULTATION WITH CH STAFF.
14. ALL EROSION AND SEDIMENT CONTROLS ARE TO BE INSTALLED ACCORDING TO THE APPROVED PLANS PRIOR TO COMMENCEMENT OF ANY EARTH MOVING WORK ON THE SITE AND SHALL REMAIN IN PLACE UNTIL ALL DISTURBED AREAS ARE STABILIZED WITH THE INTENDED GROUND COVER.
15. EROSION AND SEDIMENT CONTROLS SHALL BE INSPECTED BY THE BUILDER/DEVELOPER:
i. WEEKLY
ii. BEFORE AND AFTER ANY PREDICTED RAINFALL EVENT
iii. FOLLOWING AN UNPREDICTED RAINFALL EVENT
iv. DAILY, DURING EXTENDED DURATION RAINFALL EVENTS
v. AFTER SIGNIFICANT SNOW MELT EVENTS
16. EROSION AND SEDIMENT CONTROLS SHALL BE MAINTAINED IN PROPER WORKING ORDER AT ALL TIMES. DAMAGED OR CLOGGED DEVICES SHALL BE REPAIRED WITHIN 48 HOURS.
17. WHERE A SITE REQUIRES DEWATERING AND WHERE THE EXPELLED WATER CAN BE FREELY RELEASED TO A SUITABLE RECEIVER, THE EXPELLED WATER SHALL BE TREATED TO CAPTURE SUSPENDED PARTICLES GREATER THAN 40 MICRON IN SIZE. THE CAPTURED SEDIMENT SHALL BE DISPOSED OF PROPERLY PER MOECC GUIDELINES. THE CLEAN EXPELLED WATER SHLAL FREELY RELEASE TO A SUITABLE RECEIVER THAT DOES NOT CREATE DOWNSTREAM ISSUES INCLUDING BUT NOT LIMITED TO EROSION, FLOODING – NUISANCE OR OTHERWISE, INTERFERENCE ISSUES, ETC.
18. EXISTING STORM SEWER AND DRAINAGE DITCHES ADJACENT TO THE WORKS SHALL BE PROTECTED AT ALL TIMES FROM THE ENTRY OF SEDIMENT/SILT THAT MAY MIGRATE FROM THE SITE. FOR STORM SEWERS: ALL INLETS (REAR LOT CATCHBASINS, ROAD CATCHBASINS, PIPE INLETS, ETC.) MUST BE SECURED/FITTED WITH SILTATION CONTROL MEASURES. FOR DRAINAGE DITCHES: THE INSTALLATION OF ROCK CHECK DAMS, SILTATION FENCE, SEDIMENT CONTAINMENT DEVICES MUST BE INSTALLED TO TRAP AND CONTAIN SEDIMENT. THESE SILTATION CONTROL DEVICES SHALL BE INSPECTED AND MAINTAINED PER ITEMS 15 AND 16 ABOVE.
19. IN THE EVENT OF A SPILL (RELEASE OF DELETERIOUS MATERIAL) ON OR EMANATING FROM THE SITE, THE OWNER OR OWNERS AGENT SHALL IMMEDIATELY NOTIFY THE MOECC AND FOLLOW ANY PRESCRIBED CLEAN UP PROCEDURE. THE OWNER OF OWNERS AGENT WILL ADDITIONALLY IMMEDIATELY NOTIFY THE TOWN.





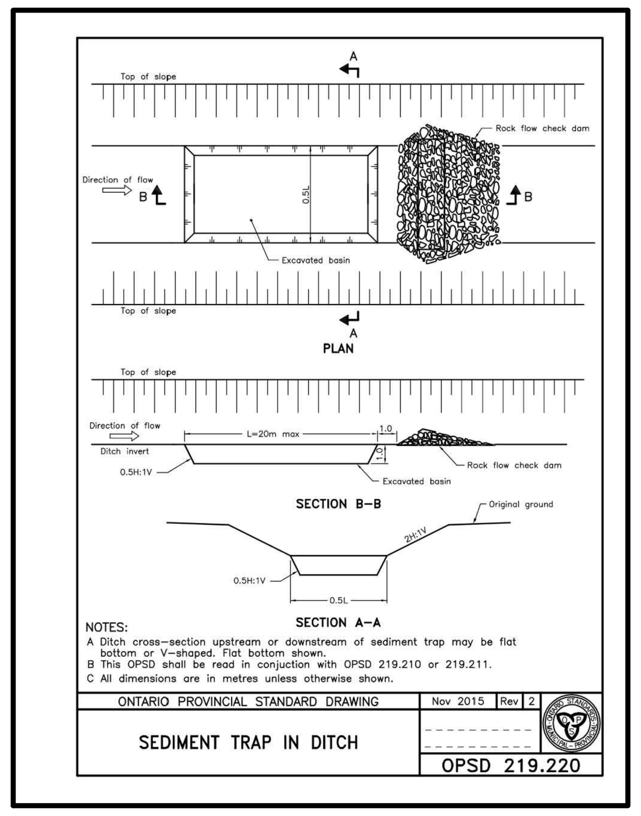


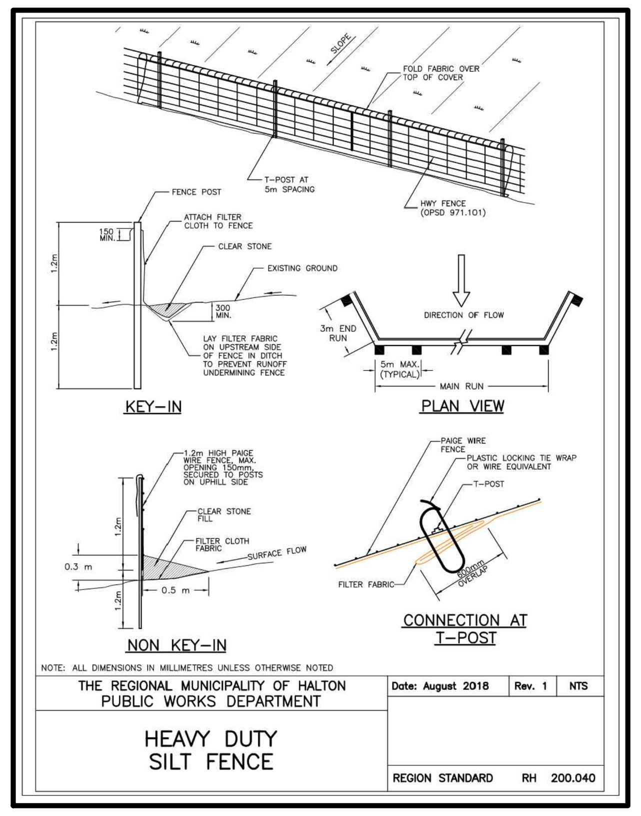


NOTES:

1. PAD SHALL BE REMOVED AND REPLACED WHEN SOIL IS EVIDENT ON THE SURFACE OF THE PAD OR AS DIRECTED BY THE ENGINEER
2. PAD THICKNESS SHALL BE INCREASED IF SOIL CONDITIONS DICTATE OR PER THE DIRECTION OF THE ENGINEER.
3. MINIMUM DIMENSIONS MAY BE MODIFIED AS REQUIRED BY SITE CONDITIONS UPON APPROVAL OF THE ENGINEER.

TEMPORARY CONSTRUCTION ACCESS MUD MAT
N.T.S.





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LICENSED PROFESSIONAL ENGINEER
J. M. CESARIO
100525531
2025-09-02
PROVINCE OF ONTARIO
ENGINEER STAMP

PLAN OF SURVEY OF LOT 6 AND BLOCK A, REGISTERED PLAN 403 TOWN OF OAKVILLE REGIONAL MUNICIPALITY OF HALTON
LEGAL DESCRIPTION

ELEVATIONS ARE REFERRED TO THE TOWN OF OAKVILLE BENCHMARK No 227, LOCATED ON SOUTH END OF CONCRETE DOOR SILL AT 1334 SIXTH LINE, HAVING AN ELEVATION OF 131.831m. VERTICAL DATUM: CANADIAN GEODETIC DATUM, 1928 (PRE: 1978 SOUTHERN ONTARIO READJUSTMENT)
BENCHMARK

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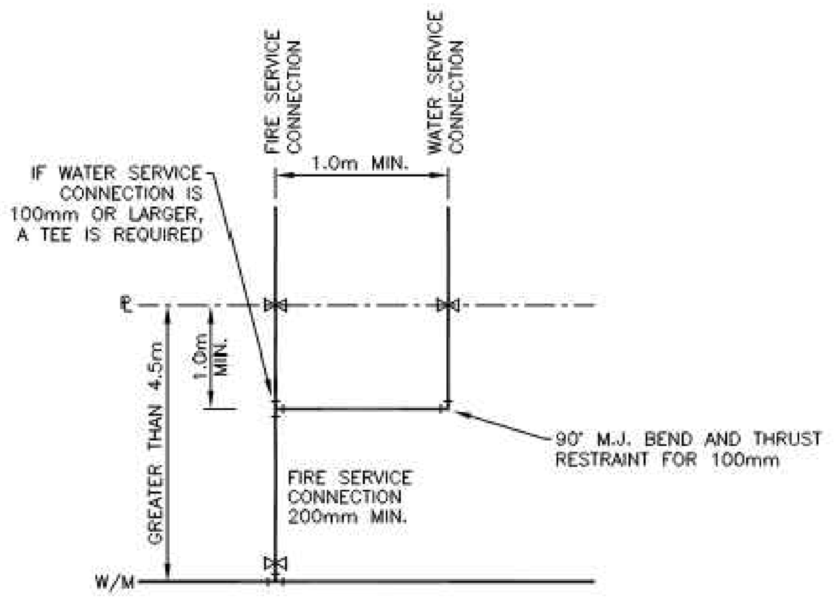
PROJECT
MIXED USE RESIDENTIAL DEVELOPMENT
1493 SIXTH LINE, OAKVILLE, ON, L6H 1X8

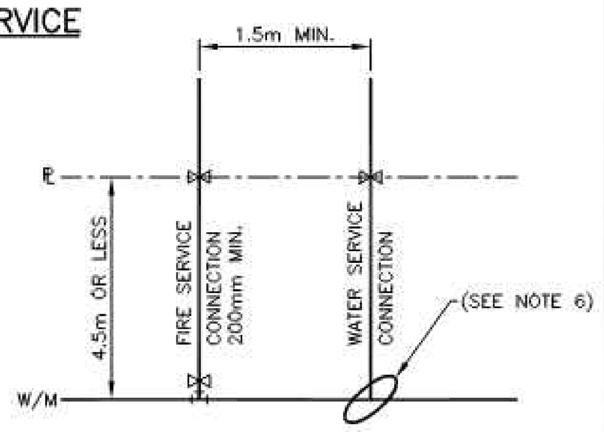
DRAWING TITLE
EROSION & SEDIMENT CONTROL PLAN

DESIGN	DATE	SCALE
IA	JUNE 2025	1:300
DRAWN	PROJECT NO.	
HS	25-7018	
CHECKED	DRAWING NO.	REV.
JC	C03	2
APPROVED		
JC		

0 3 1:300 15m



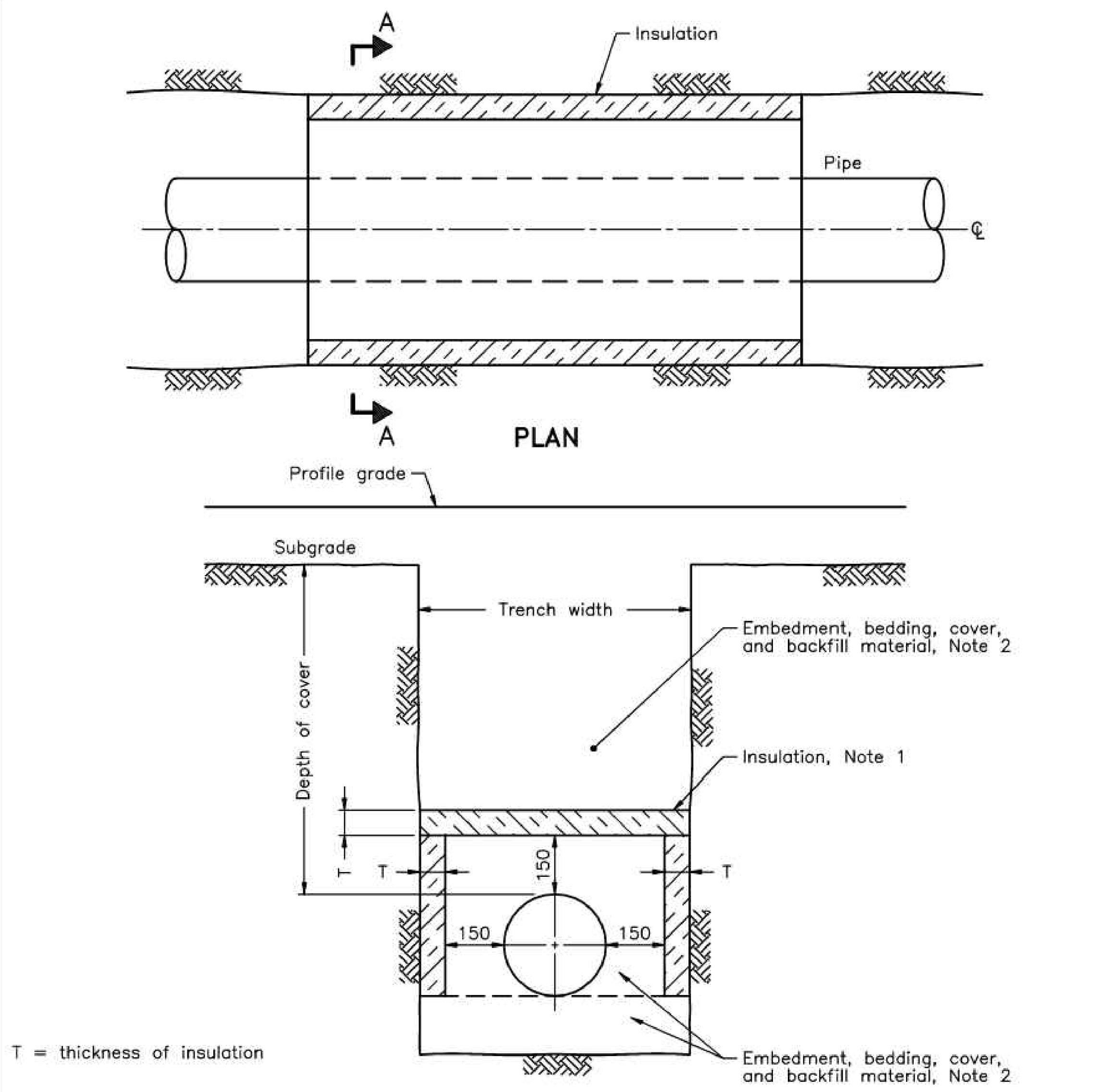
GREATER THAN 4.5m SERVICE



LESS THAN 4.5m SERVICE

NOTES
1. COMPRESSION TYPE FITTINGS ONLY. NO SOLDERED JOINTS ARE PERMITTED BEFORE THE WATER METER.
2. WATER SERVICE CONNECTION 25, 38, 50 TO BE TYPE 'K' SOFT COPPER, 100 AND LARGER TO BE PVC OR DI.
3. FIRE SERVICE CONNECTION TO BE MIN. 200mm.
4. IF THE WATERMAIN IS 4.5m OR LESS FROM THE PROPERTY LINE, THEN 2 SEPARATE CONNECTIONS ARE REQUIRED.
5. TAPPING SLEEVE TO BE PRESSURE TESTED BY CONTRACTOR BEFORE MAIN IS TAPPED.
6. ALL SERVICE CONNECTIONS TO PVC PIPE REQUIRE SADDLES. ALL SERVICE CONNECTIONS 50mm OR LESS TO HAVE A MAIN STOP, CURB STOP AND BOX. ALL SERVICES GREATER THAN 50mm REQUIRE A TAPPING SLEEVE AND VALVE OR AN ANCHOR TEE WITH A GATE VALVE AND BOX AT THE MAIN IN ADDITION TO A PROPERTY LINE GATE VALVE AND BOX.
7. ALL GATE VALVES TO HAVE VALVE BOXES.
8. ALL DIMENSIONS IN MILLIMETRES UNLESS OTHERWISE NOTED.

THE REGIONAL MUNICIPALITY OF HALTON PUBLIC WORKS DEPARTMENT	Date: August 2018	Rev. 2	NTS
WATER SERVICE AND FIRE SERVICE CONNECTION INSTALLATIONS	REGION STANDARD	RH 409.010	

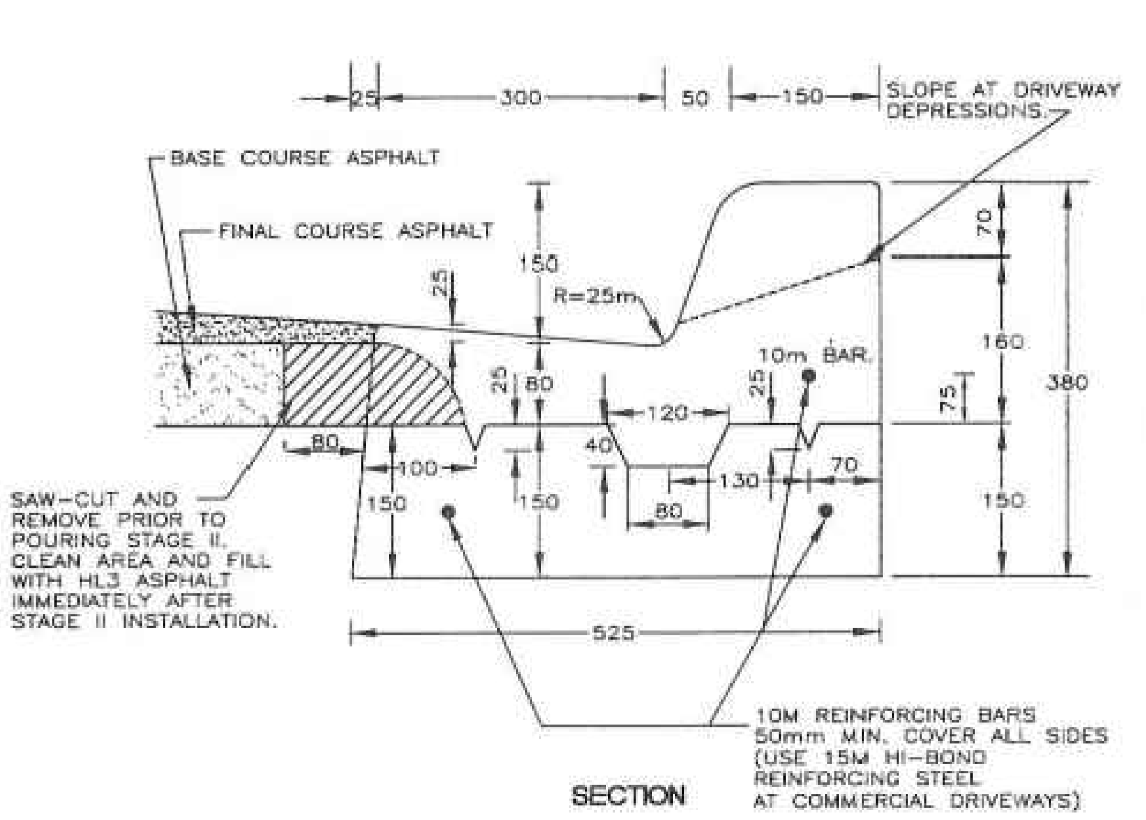


T = thickness of insulation

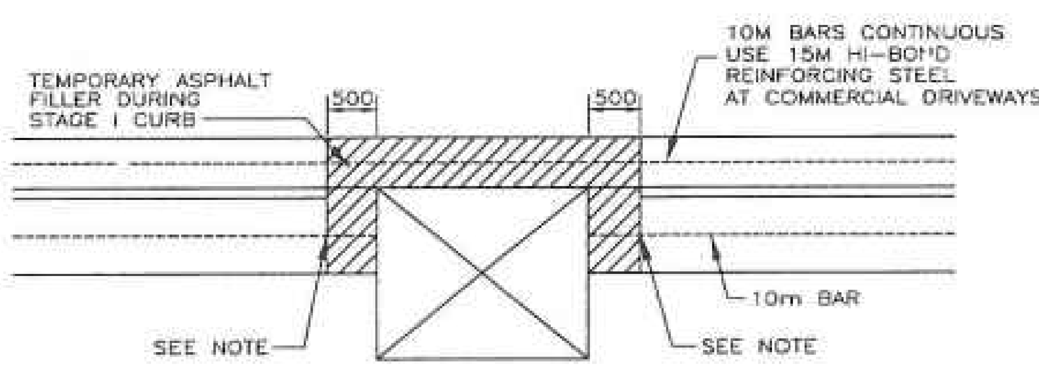
SECTION A–A
TYPICAL PIPE INSULATION DETAIL

NOTES:
1 The insulation material shall be extruded polystyrene according to OPSS 1605 with a minimum compressive strength of 275 kPa.
2 Pipe embedment or bedding, cover, and backfill shall be according to:
a) Flexible OPSD 802.010, 802.013, 802.020, and 802.023.
b) Rigid – OPSD 802.030, 802.031, 802.032, 802.033, 802.050, 802.051, 802.052, and 802.053.
A Minimum insulation thickness shall be 50mm.
B Joints shall be staggered for multiple insulation sheets.
C This OPSD is to be read in conjunction with OPSD 3090.100 and 3090.101.
D All dimensions are in millimetres unless otherwise shown.

ONTARIO PROVINCIAL STANDARD DRAWING	Nov 2020	Rev	1
INSULATION FOR SEWERS AND WATERMAINS IN SHALLOW TRENCHES	OPSD 1109.030		



SECTION



PLAN AT CATCHBASIN

NOTES:
1.–PRIOR TO CATCH-BASIN FINAL ADJUSMENT, SAWCUT BOTH TOP & BOTTOM STAGE CURB ALONG SAME VERTICAL PLANE 500mm FROM EDGE OF CATCH-BASIN. DOWEL TWO (2) 10m BARS 150mm INTO EXISTING BASE CURBS, HAND FORM AND POUR FULL CURB SECTION AT CATCH-BASIN.
2.–CONCRETE AS PER OPSS 1350

DIMENSIONS IN mm EXCEPT AS NOTED

MUNICIPALITY: TOWN OF OAKVILLE	
TWO STAGE EXTRUDED CONCRETE CURB AND GUTTER	
APPROVED DIRECTOR OF PUBLIC WORKS	STD. 6-1
	REVISION DATE FEBRUARY 1999

GENERAL NOTES:

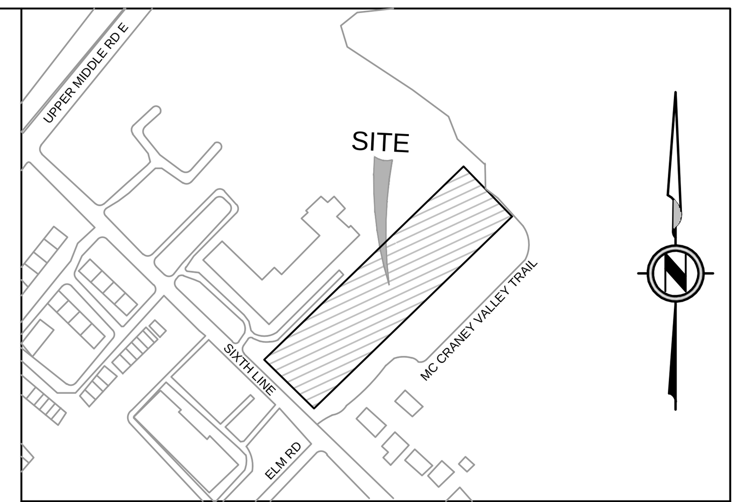
1. STANDARD DRAWINGS AND SPECIFICATIONS OF THE TOWN OF OAKVILLE AND THE REGION OF HALTON SHOULD BE READ IN CONJUNCTION WITH THE INFORMATION HEREIN.
2. MATERIAL SUBSTITUTIONS MUST HAVE PRIOR APPROVAL OF THE ENGINEER, TOWN OF OAKVILLE & REGION OF HALTON AND ANY OTHER REGULATORY AGENCIES HAVING JURISDICTION.
3. NO BLASTING IS REQUIRED OR ALLOWED.
4. COMPACTION OF GRANULAR BACKFILL AROUND CATCHBASINS AND MANHOLES TO BE 95% S.P.M.D.D. AND SHALL BE COMPACTED MECHANICALLY.
5. SEWER BEDDING TO BE AS PER TOWN OF OAKVILLE STANDARDS.
6. FILL AREAS GREATER THAN 0.3m WITHIN MUNICIPAL RIGHT-OF-WAY ARE SUBJECT TO COMPACTION TESTS TO ACHIEVE 100% S.P.M.D.D.
7. SET MANHOLE AND CATCHBASIN TOPS FLUSH WITH HL8 ASPHALT AND ARE TO BE ADJUSTED TO FINAL GRADE PRIOR TO PLACING FINAL LIFT OF ASPHALT.
8. TOWN OF OAKVILLE STANDARD 6-1 TO BE USED FOR CURB AND GUTTER WITHIN THE RIGHT-OF-WAY UNLESS OTHERWISE NOTED.
9. TOWN OF OAKVILLE STANDARD 6-3 TO BE USED FOR ALL SIDEWALK WITHIN THE RIGHT-OF-WAY. SIDEWALK DEPRESSIONS TO BE INSTALLED AT INTERSECTIONS. INTERSECTION RADII TO BE 7.50m UNLESS OTHERWISE NOTED.
10.
11. PAVEMENT STRUCTURES ARE AS PER SOIL INVESTIGATION REPORT TO BRONTE GREEN CORPORATION "PROPOSED RESIDENTIAL DEVELOPMENT" BY SOIL ENGINEERS LTD., REFERENCE NO. 1611-S034(A), DATED APRIL 2017: 40mm HL3 ASPHALT SURFACE COURSE 50mm HL8 ASPHALT BINDER COURSE 150mm GRANULAR 'A' BASE 350mm – 50mm CRUSHER-RUN LIMESTONE GRANULAR SUB-BASE
12. ANY ORGANIC MATERIAL OR TOPSOIL WITHIN FUTURE ROAD ALLOWANCES SHALL BE STRIPPED PRIOR TO CONSTRUCTION.
13. ALL TRENCHES WITHIN EXISTING R.O.W. TO BE BACKFILLED WITH GRANULAR MATERIAL AND COMPACTED TO 95% S.P.M.D.D.
14. ALL TRENCHES WITHIN A REGIONAL R.O.W. TO BE BACKFILLED WITH GRANULAR MATERIAL AND COMPACTED TO 98% S.P.M.D.D.
15. SUBDRAINS TO BE INSTALLED AS PER TOWN OF OAKVILLE STD. 6-2 UNLESS OTHERWISE NOTED.
16. ALL MATERIALS SHALL MEET OR EXCEED ONTARIO PROVINCIAL STANDARD AND TOWN STANDARD SPECIFICATIONS
17.
18. WATERMAINS AND SANITARY SEWERS TO CONFORM TO LATEST REGIONAL MUNICIPALITY OF HALTON SPECIFICATIONS AND REQUIREMENTS.
19. REFER TO ONTARIO BUILDING CODE SECTION 7.2.4.4 REGARDING FITTINGS RESTRICTED IN USE.
20. REFER TO ONTARIO BUILDING CODE SECTION 7.2.10.5 REGARDING SADDLE HUBS.
21. REFER TO ONTARIO BUILDING CODE SECTION 7.3.5.4 REGARDING FROST PROTECTION OF SERVICES.
22. REFER TO ONTARIO BUILDING CODE SECTION 7.3.5.7 REGARDING SPATIAL SEPARATION OF SERVICES

WATERMAINS:

1. 150mm DIA. TO 300mm DIA. WATERMAIN TO BE PVC CL.235 (DR-18) WITH GASKETED JOINTS PER AWWA C-900, C-905 & C-907..
2. MINIMUM HORIZONTAL SEPARATION OF 2.5m BETWEEN WATERMAINS AND SEWERS. A 0.5m SEPARATION BETWEEN WATERMAINS AND SEWERS MUST BE MAINTAINED AT ALL CROSSING LOCATIONS.
3. BEDDING TO BE SUITABLE GRANULAR 'A' MATERIAL WITH MINIMUM 150mm DEPTH AND SHALL CONFORM TO OPSS 514
4. ALL WATERMAIN WILL BE SUBJECT TO PRESSURE TESTING AND FIRE FLOW TESTING AS DIRECTED BY HALTON REGION
5. SACRIFICIAL ANODES SHALL CONFORM TO ASTM B-418 TYPE II AND SHALL BE MADE OF HIGH GRADE ELECTROLYTIC ZINC, 99.99% PURE.
6. ALL METALLIC WATERMAINS, FITTING, HYDRANTS AND RESTRAINERS TO HAVE ONE ZINC ANODE PER LENGTH OF PIPE IN SIZES IN ACCORDANCE WITH TABLE IN OAKVILLE GENERAL ENGINEERING NOTES AND IN ACCORDANCE WITH REGION OF HALTON STANDARD DRAWING RH 420.01 AND RH 420.02.
7. ANODES ARE NOT REQUIRED WITHIN VALVE-CHAMBERS, DRAIN CHAMBERS OR AIR RELEASE CHAMBER.
8. WELD CONNECTIONS TO BE COATED WITH "TC MASTIC" OR APPROVED EQUIVALENT.
9. FOR ALL ANODES CONNECTED TO NEW PIPE, FITTINGS OR TO EXISTING METALLIC WATERMAINS, A CADWELDER AND CA-15 OR EQUIVALENT CARTRIDGE SHALL BE USED. ANODE INSTALLATION SHALL BE PERFORMED IN ACCORDANCE WITH THE MANUFACTURERS INSTRUCTIONS.
10. WHERE NEW PIPE IS TO BE CONNECTED TO EXISTING DUCTILE IRON OR CAST IRON PIPE A 14.5 KG MAGNESIUM ANODE IS TO BE CONNECTED TO THE FIRST LENGTH OF EXISTING PIPE, AS PER REGION OF HALTON STANDARD DRAWING RH 420.01.
11. VALVES TO OPEN LEFT (COUNTER CLOCKWISE) AND HAVE A STANDARD 50mm SQUARE OPERATION NUT.
12. ALL PLUGS, CAPS, TEES & HYDRANTS AND BENDS WILL HAVE APPROVED MECHANICAL THRUST RESTRAINTS. CONCRETE THRUST BLOCKS SHALL ONLY BE USED IN SPECIAL CIRCUMSTANCES WITH THE APPROVAL OF THE REGION OF HALTON.
13. WATERMAIN INSTALLATION WITHIN EXISTING R.O.W. SHALL BE BACKFILLED WITH GRANULAR 'A'.
14. GATE VALVES CONFORMING TO AWWA C500 AND THE REGION OF HALTON SPECIFICATIONS SHALL BE PROVIDED ON WATERMAINS UP TO AND INCLUDING 300mm DIA.
15. WATERMAIN FITTINGS TO HAVE MECHANICAL JOINTS.
16. VERTICAL OR HORIZONTAL PIPE DEFLECTION TO BE IN ACCORDANCE WITH THE MANUFACTURES SPECIFICATIONS.
17. TRACER WIRE SHALL BE INSTALLED ON ALL NEW PVC AND POLYETHYLENE PIPE. A SOLID GAUGE TWU COPPER WIRE SHALL BE INSTALLED ALONG THE TOP OF THE PIPE STRAPPED TO THE PIPE AT 6m INTERVALS. THE WIRE SHALL BE INSTALLED BETWEEN EACH VALVE AND/OR THE END OF THE NEW PVC WATERMAIN. JOINTS IN THE WIRE ARE NOT PERMITTED. AT EACH VALVE, A LOOP OF WIRE IS TO BE BROUGHT UP INSIDE THE VALVE BOX TO THE TOP OF THE BOX AS PER HALTON STD DRAWING RH 4--4.04 OR RH 400.05
18. HYDRANTS TO BE INSTALLED SUCH THAT THE LOWER ROD STEM SHALL NOT EXCEED 1.7m MEASURED FROM THE BREAKOFF FLANGE.
19. ALL HYDRANTS AS PER O.P.S.D. 1105.010 AND RH400.02 TO HAVE STEAMER CONNECTIONS.
STORZ PUMPER CONNECTIONS
TWO (2) 63.5mm (2 1/2") WITH CSA STANDARD THREAD, 63.5mm I.D., 79.4mm O.D., 5 THREADS PER 25mm, 31.75mm SQUARE OPERATING NUT; AND
ONE (1) 100mm (4") STORZ PUMPER CONNECTION AS PER CAN/ULC #S-520, 31.75mm SQUARE OPERATING UNIT, AND STORE CAP PAINTED GLOSS BLACK.
20. MINIMUM DEPTH OF COVER OVER WATERMAIN SHALL BE 1.70m MEASURED FROM THE ROAD CENTERLINE ELEVATION.
21. MINIMUM SEPARATION DISTANCE BETWEEN THE EDGE OF DRIVEWAY AND FACE OF FIRE HYDRANT IS 1.0

STORM SEWERS:

1. MANHOLES TO BE AS PER O.P.S.D. 701.010 – 701.015 WITH COVER AND FRAME AS PER O.P.S.D.
2. CONCRETE PIPE TO BE CLASS 65-D AS PER CSA A257.2, PVC SDR 35 OR RIBBED PVC CONFORMING TO CSA B.182.2 (MAX PVC = 600mm DIA).
3. CATCHBASINS TO BE AS PER O.P.S.D. 705.01 FOR SINGLES AND 705.02 FOR DOUBLES. GRATES TO BE AS PER O.P.S.D. 400.11. CATCHBASINS LEADS TO BE 250mm DIA. FOR SINGLES AND 300mm DIA FOR DOUBLES AS PER CSA B182.2 SDR-35.
4. ALL POLYVINYL CHLORIDE (PVC.) PIPE SHALL MEET THE C.S.A. REQUIREMENTS AS NOTED WITHIN THE OPSS 1841, THE PIPE MATERIAL SHALL HAVE A CELL CLASSIFICATION OF 12454-B OR 12454-C OR ASTM STD. D-3034 AND OPSS 1841.
5. SILT TRAPS WITH FILTER FABRIC TO BE INSTALLED ON ALL CATCHBASINS AS PER THE EROSION AND SEDIMENT CONTROL PLAN. TRAPS TO BE CLEANED REGULARLY BY THE CONTRACTOR. TRAPS ARE NOT TO BE REMOVED UNTIL CURBS ARE CONSTRUCTED AND BOULEVARDS ARE SODDED AND BACKYARDS ARE GRADED AND SODDED.
6. RUBBER GASKETED JOINTS ARE TO BE USED ON ALL STORM SEWER.
7. CONNECTIONS TO MAIN SEWERS SHALL BE ACHIEVED USING 'Y' FITTINGS ONLY.
8. THE AREA DRAIN SPECIFIED BY THE MECHANICAL ENGINEER IS AS FOLLOWS: ZURN Z-610-H-ADJ 12" [305] SQUARE TOP ADJUSTABLE FLOOR DRAIN, DURA-COATED CAST IRON BOTTOM OUTLET BODY, CLAMPING COLLAR, ADJUSTABLE LEVELING FRAME, WITH HEAVY-DUTY CAST IRON HINGED SLOTTED GRATE.



LEGEND

REV	MM/DD/YY	DESCRIPTION	BY	APP
2	08/29/2025	FIRST SPA SUBMISSION	IA	JC
1	07/04/2025	ISSUED FOR COORDINATION	IA	JC

LICENSED PROFESSIONAL ENGINEER
J. M. CESARIO
100525531
2025-09-02
PROVINCE OF ONTARIO
ENGINEER STAMP

PLAN OF SURVEY OF LOT 6 AND BLOCK A, REGISTERED PLAN 403
TOWN OF OAKVILLE
REGIONAL MUNICIPALITY OF HALTON

LEGAL DESCRIPTION

ELEVATIONS ARE REFERRED TO THE TOWN OF OAKVILLE BENCHMARK No 227, LOCATED ON SOUTH END OF CONCRETE DOOR SILL AT 1334 SIXTH LINE, HAVING AN ELEVATION OF 131.831m.
VERTICAL DATUM: CANADIAN GEODETIC DATUM, 1928 (PRE: 1978 SOUTHERN ONTARIO READJUSTMENT)

BENCHMARK

APLIN MARTIN

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Tel: (905) 582-0630, Fax: (416) 644-1889, Email: general@aplinmartin.com

CLIENT
innovative
s|h|s

PROJECT
MIXED USE RESIDENTIAL DEVELOPMENT
1493 SIXTH LINE, OAKVILLE, ON, L6H 1X8

DRAWING TITLE
ESC - NOTES & DETAILS

NOTICE TO CONTRACTOR

IT IS THE RESPONSIBILITY OF THE CONTRACTOR'S SURVEYOR TO VERIFY THAT ALL LEGAL SURVEY DIMENSIONS SHOWN ON THE ENGINEERS DRAWINGS AGREE WITH THOSE ON THE REGISTERED LEGAL SURVEY PLAN. SHOULD THERE BE ANY DISCREPANCIES, THEN IMMEDIATELY NOTIFY THE ENGINEER OF RECORD

THE LOCATION OF EXISTING UNDERGROUND UTILITIES ARE SHOWN IN AN APPROXIMATE WAY ONLY & HAVE NOT BEEN INDEPENDENTLY VERIFIED BY THE OWNER OR ITS REPRESENTATIVE. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF ALL EXISTING UTILITIES BEFORE COMMENCING WORK, AND AGREES TO BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH MIGHT BE OCCASIONED BY THE CONTRACTOR'S FAILURE TO EXACTLY LOCATE AND PRESERVE ANY AND ALL UNDERGROUND UTILITIES.

DESIGN IA	DATE JUNE 2025	SCALE 1:300	
DRAWN HS	PROJECT NO. 25–7018		
CHECKED JC	DRAWING NO. C04		REV. 2
APPROVED JC			

0 3 1:300 15m