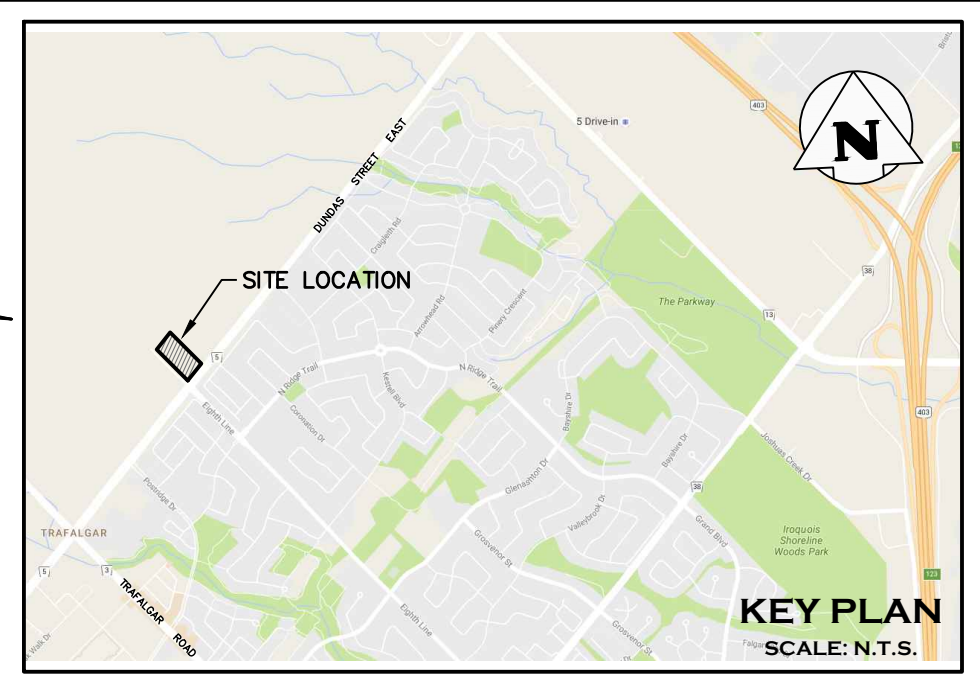
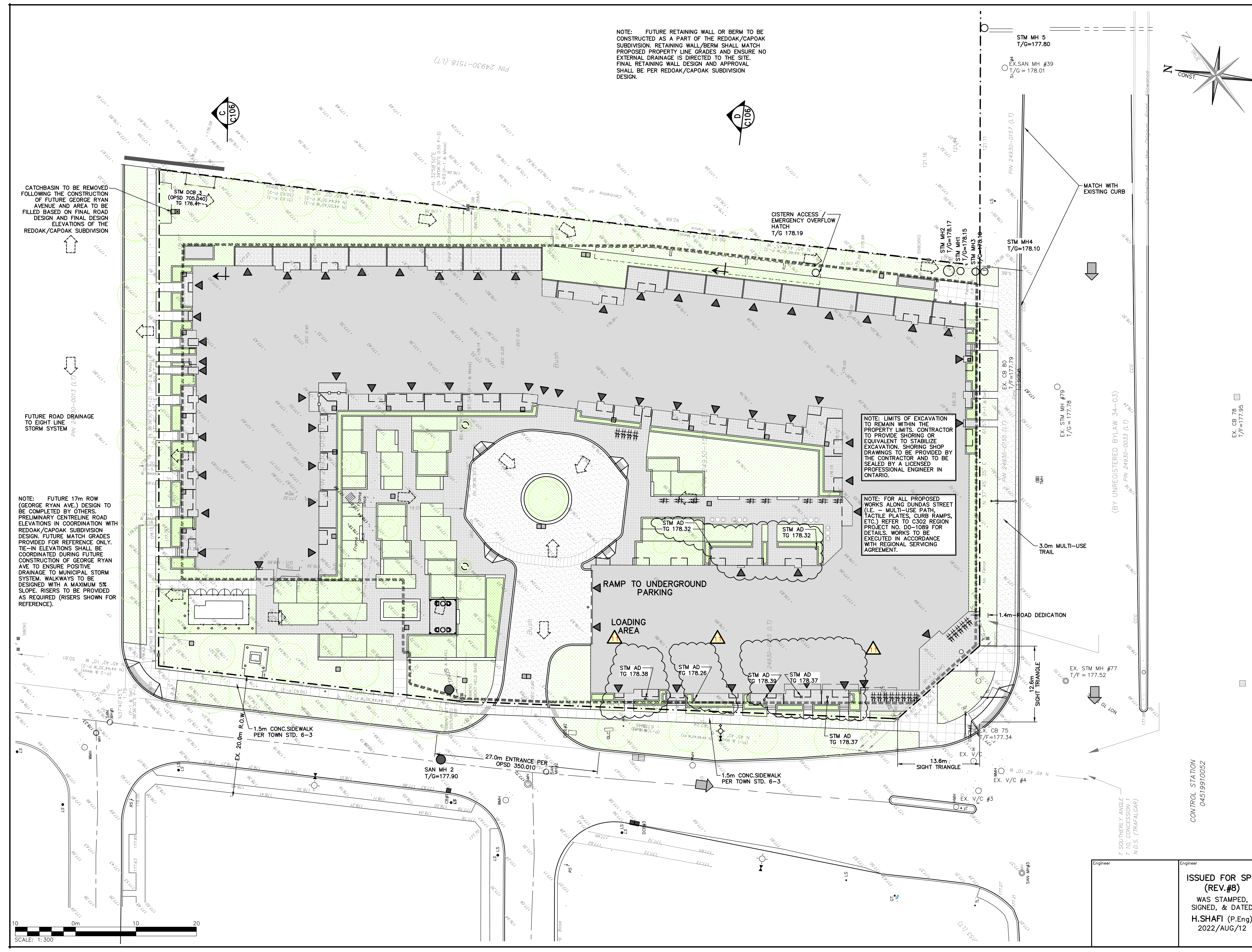


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LEGEND

- PROPERTY LINE
- - - EXISTING CONTOUR (0.5m)
- - - EXISTING CONTOUR (1.0m)
- - - EXISTING DITCH
- x - x - EXISTING FENCE
- x215.00 EXISTING GRADE
- x215.00 PROPOSED GRADE
- x215.00 PROPOSED GRADE (TO MATCH EXISTING)
- 2.0% FUTURE GRADE
- 2.0% PROPOSED MINOR FLOW DIRECTION
- 2.0% PROPOSED GRASSED SWALE
- PROPOSED RETAINING WALL
- PROPOSED SLOPE (3:1 MAX.)
- BUILDING ENTRANCE (PERSONNEL DOOR)
- BUILDING ENTRANCE (OVERHEAD DOOR)
- PROPOSED MAJOR OVERLAND FLOW DIRECTION
- EXISTING MAJOR OVERLAND FLOW DIRECTION
- PROPOSED EXTENTS OF U/G PARKING
- PROPOSED EXTENTS OF OVERHEAD ROOFTOP
- EASEMENT LINE

NOTE: TOTAL GREEN ROOF AREA = 1126.0 m². REFER TO ARCHITECTURAL PLANS FROM BARON NELSON ARCHITECTS FOR DETAILS.

13	ISSUED FOR DRAFT PLAN OF CONDOMINIUM	2024/FEB/16
12	ISSUED FOR ECA APPROVAL	2024/JAN/15
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10	ISSUED FOR CONSTRUCTION	2022/OCT/04
9	ISSUED FOR CONDITIONAL PERMIT	2022/AUG/29
8	ISSUED FOR SPA	2022/AUG/12
7	ISSUED FOR PERMIT RESUBMISSION	2022/JUNE/29
No.	ISSUE / REVISION	YYYY/MM/DD

SURVEY NOTES:
 SURVEY COMPLETED BY CUNNINGHAM MCCONNELL LIMITED. (2019/FEB/11)
 PLAN No.: 44-16-1 OLS FILE No.: 44-160TM
 BEARINGS ARE GRID, NAD 83, 6' U.T.M., ZONE 17, CENTRAL MERIDIAN 81° WEST LONGITUDE, BEING RELATED TO CONTROL STATIONS 04519910052 & 00819800334
 DISTANCES ARE GRID AND CAN BE CONVERTED TO GRID BY MULTIPLYING BY THE SCALE FACTOR OF 0.9997217

SITE PLAN NOTES:
 DESIGN ELEMENTS ARE BASED ON SITE PLAN BY BARON NELSON ARCHITECTS INC. (2022/JULY/25)

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 ALL EXISTING UNDERGROUND UTILITIES TO BE VERIFIED IN THE FIELD BY THE CONTRACTOR PRIOR TO CONSTRUCTION.

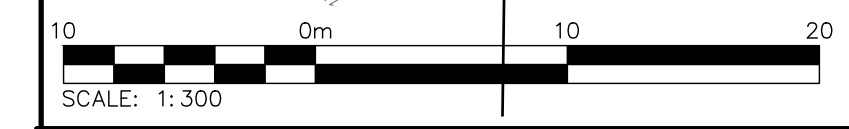
Project: **OAKVILLE URBAN CORE DEVELOPMENT**
1005 DUNDAS ST & 3033 EIGHTH LINE
 TOWN OF OAKVILLE

Drawing: **SITE GRADING PLAN**

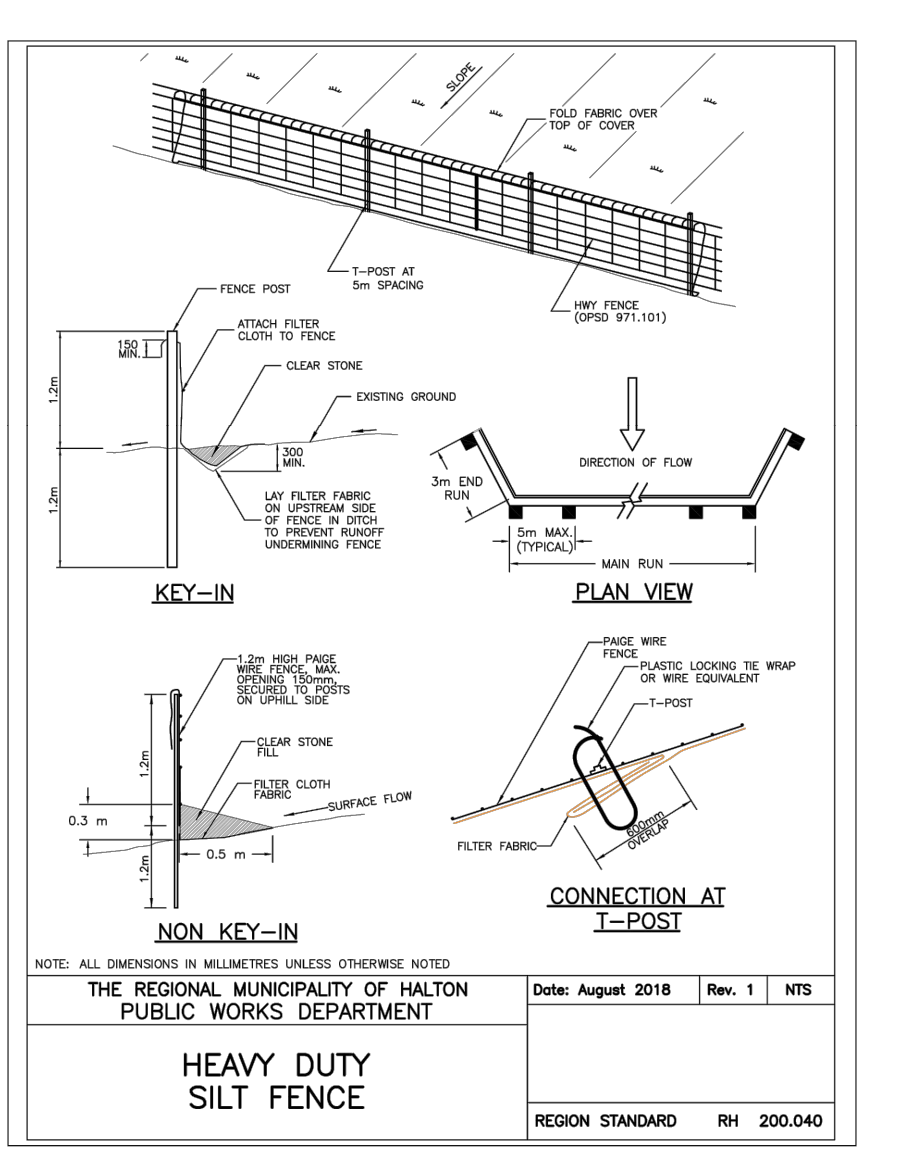
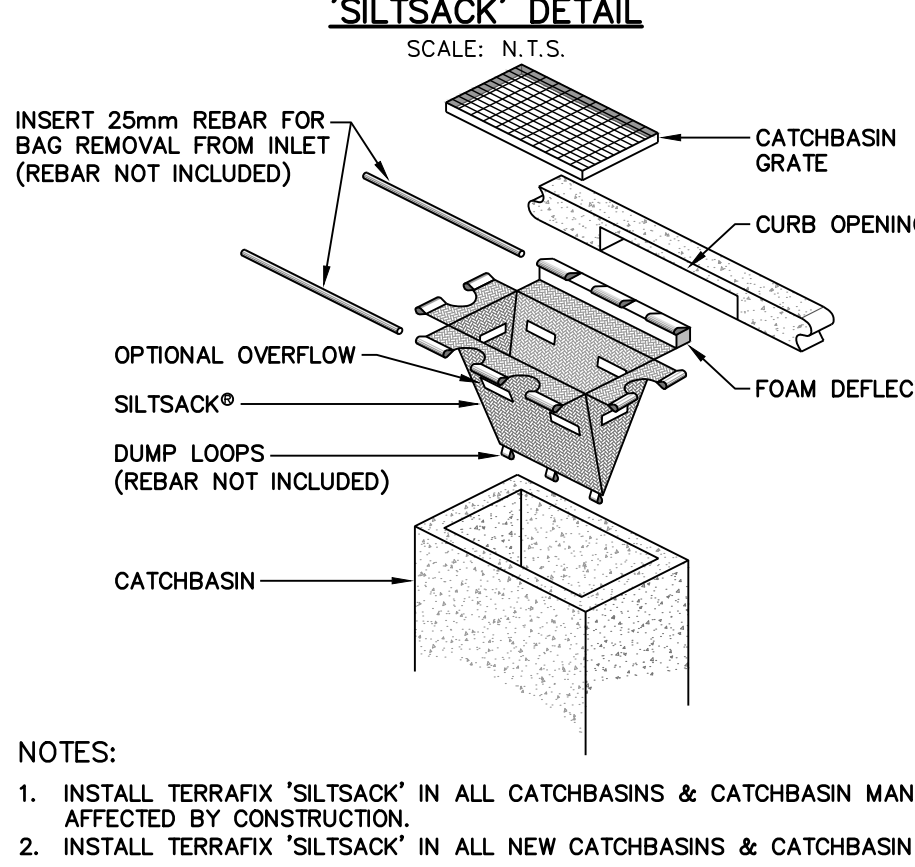
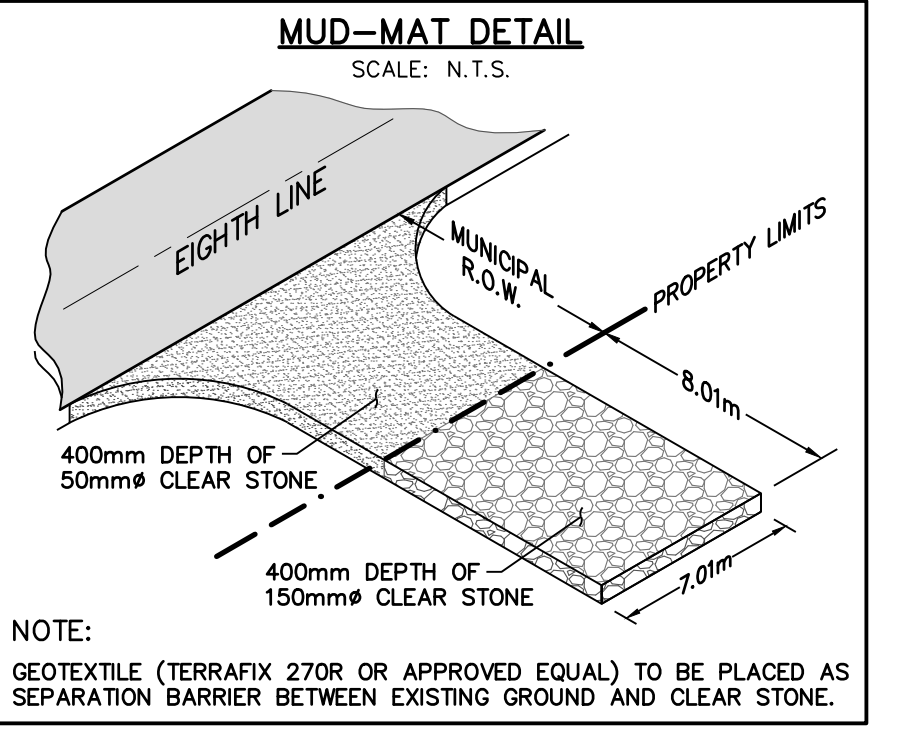
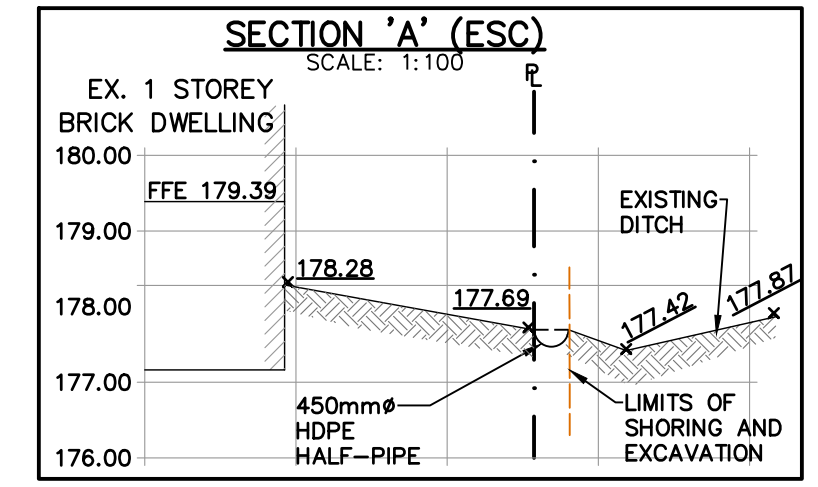
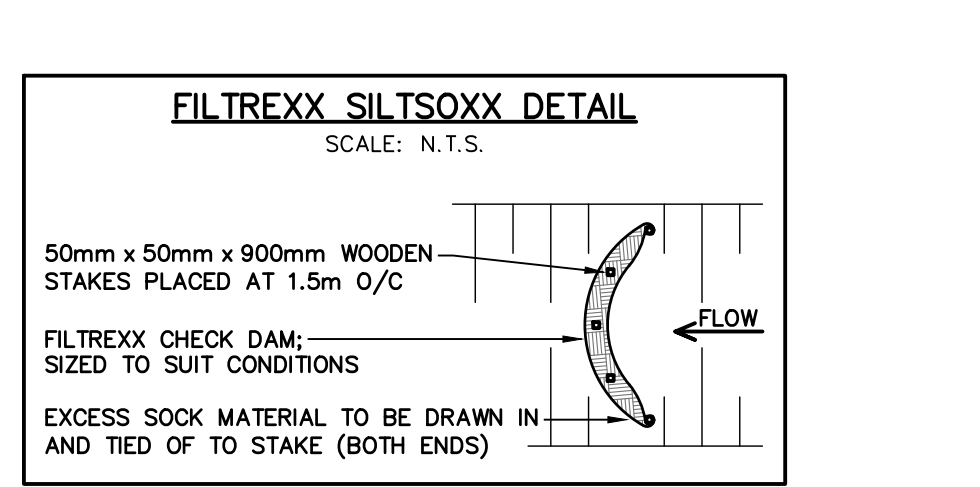
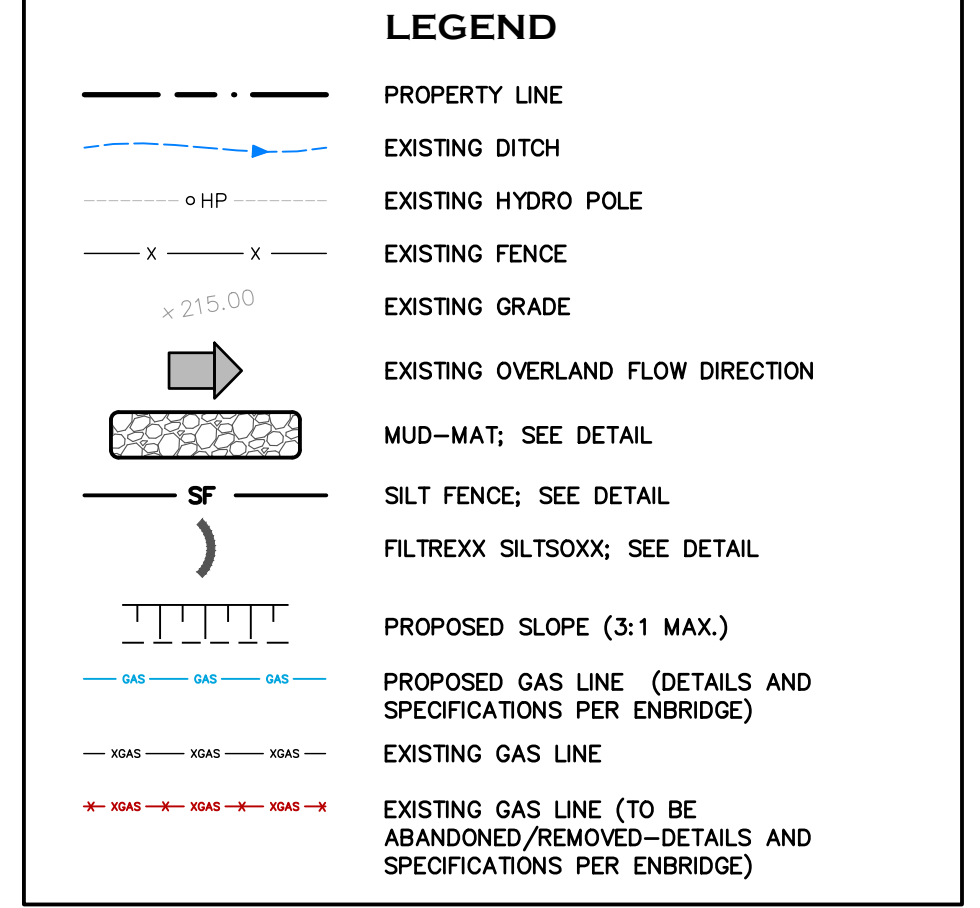
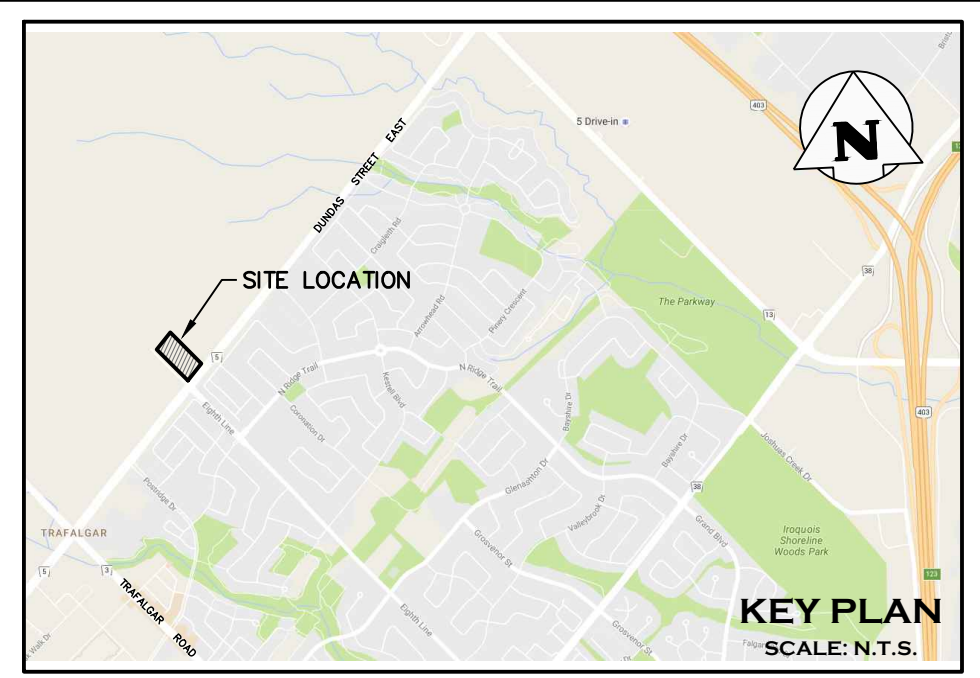
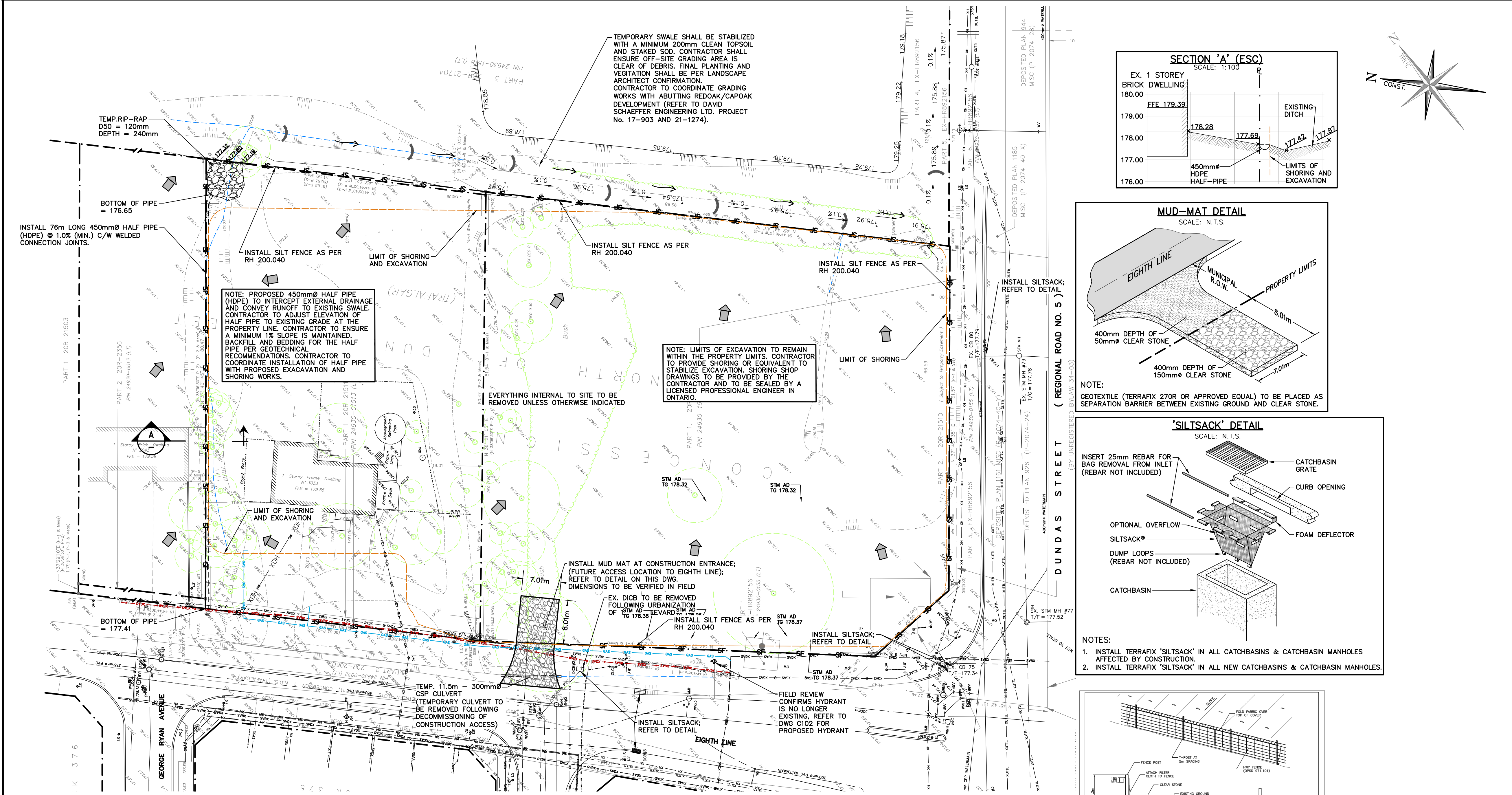
Engineer: **CROZIER & ASSOCIATES** Consulting Engineers
 2800 HIGH POINT DRIVE SUITE 100 MILTON, ON L9T 6P4 905 875 0026 T 905 875 4915 F WWW.CFCROZIER.CA

ISSUED FOR SPA (REV.#8)
 WAS STAMPED, SIGNED, & DATED
 H.SHAFI (P.Eng)
 2022/AUG/12

Drawn	J.B.	Design	J.B.	Project No.	1642-5143
Check	H.S.	Check	A.S.	Scale	1:300
				Dwg	C 103



\\1600\1642-1005 Dundas St. & 3033 Eighth Line\CAD\Civil\Sheets\5143_C00.dwg, 2024-02-16 4:50:06 PM, AutoCAD PDF (General Documentation).pc3



EROSION & SEDIMENT CONTROL NOTES:

- 1.0 GENERAL NOTES**
- 1.1 ALL CONSTRUCTION EQUIPMENT TO REMAIN ON-SITE FOR THE DURATION OF ALL CONSTRUCTION ACTIVITIES. NO EXTERNAL ACCESS IS REQUIRED.
 - 1.2 CONTRACTOR SHALL NOTIFY THE TOWN AND ENGINEER IN WRITING WITHIN 48 HOURS OF COMMENCING ANY SITE WORKS.
 - 1.3 CONTRACTOR SHALL NOTIFY TOWN AND ENGINEER IN WRITING OF THE COMPLETION OF ANY CONTROL MEASURES WITHIN 24 HOURS AFTER THEIR INSTALLATIONS.
 - 1.4 CONTRACTOR SHALL OBTAIN PERMISSION FROM THE DIRECTOR (ENGINEERING, TOWN OF OAKVILLE), PRIOR TO MODIFYING THE CONTROL PLAN.
 - 1.5 CONTRACTOR SHALL MAINTAIN ALL ROAD DRAINAGE SYSTEMS, STORMWATER DRAINAGE SYSTEMS, AND CONTROL MEASURES IDENTIFIED IN THIS GRADING PLAN.
 - 1.6 CONTRACTOR SHALL IMMEDIATELY REPAIR ANY SILTATION OR EROSION DAMAGE TO ADJOINING SURFACES AND DRAINAGE-WAYS RESULTING FROM LAND DEVELOPING OR DISTURBING ACTIVITIES.
 - 1.7 CONTRACTOR SHALL INSPECT THE CONSTRUCTION CONTROL MEASURES AT LEAST ONCE PER WEEK AND AFTER EACH RAINFALL OF AT LEAST 10mm AND MAKE NEEDED REPAIRS.
 - 1.8 CONTRACTOR MUST ALLOW EMPLOYEES OF THE TOWN TO ENTER THE SITE FOR THE PURPOSE OF INSPECTING FOR COMPLIANCE WITH THE CONTROL PLAN OR FOR PERFORMING ANY WORK NECESSARY TO BRING THE SITE INTO COMPLIANCE WITH THE CONTROL PLAN.
 - 1.9 CONTRACTOR MUST MAINTAIN A COPY OF THIS GRADING PLAN ON THE SITE.
 - 1.10 CONTRACTOR TO REVIEW CONDITIONS OF ALL APPROVALS PRIOR TO CONSTRUCTION.
 - 1.11 ALL STOCKPILE SIDE SLOPES TO BE 4:1 MAX. ANY STOCKPILES LEFT UNDISTURBED FOR 30 DAYS ARE TO BE SEEDED WITH NATIVE GRASS.
 - 1.12 CONTRACTOR TO INSTALL ROCK CHECK DAMS, SILT FENCE, AND STRAW BALE SEDIMENT CONTROLS AS PER DRAWINGS AND ELSEWHERE AS NOTED BY THE ENGINEER.
- 2.0 MAINTENANCE & OPERATION OF SEDIMENT CONTROLS**
- 2.1 SILT FENCE TO BE INSTALLED IN LOCATIONS SHOWN ON PLAN AND AS DIRECTED BY SITE ENGINEER.
 - 2.2 SILT FENCE MUST BE INSPECTED WEEKLY FOR RIPS OR TEARS, BROKEN STAKES, BLOW-OUTS AND ACCUMULATION OF SEDIMENT.
 - 2.3 SILT FENCE MUST BE INSPECTED FOLLOWING ALL 10mm OR GREATER RAIN STORM EVENT OR AS DIRECTED BY ENGINEER.

TOWN OF OAKVILLE STANDARD ESC NOTES:

- 2.4 SEDIMENT MUST BE REMOVED FROM SILT FENCE WHEN ACCUMULATION REACHES 50% OF THE HEIGHT OF FENCE.
 - 2.5 ALL SILT FENCES MUST BE REMOVED ONLY WHEN THE ENTIRE SITE IS STABILIZED AND AS DIRECTED BY THE SITE ENGINEER.
 - 2.6 REMOVE ACCUMULATED SEDIMENT UPSTREAM OF ROCK CHECK DAM IF GREATER THAN ONE HALF OF DAM HEIGHT.
 - 2.7 SILT REMOVAL FROM ROCK CHECK DAMS MUST BE UNDERTAKEN WITH CARE TO MINIMIZE DOWNSTREAM SEDIMENTATION IN SWALE OR DITCH.
 - 2.8 SEDIMENT TO BE CLEANED FROM TEMPORARY SEDIMENT POND ONCE ACCUMULATION REACHES 50% OF FOREBAY CAPACITY. SEDIMENT SHALL BE CLEANED FROM PUBLIC ROADS AT THE END OF EACH DAY.
 - 2.9 EXISTING STREET CATCHBASINS AT CONSTRUCTION ENTRANCES TO HAVE SILT SACKS INSTALLED AND INSPECTED FOLLOWING ALL 10mm OR GREATER RAIN STORM EVENTS, OR AS DIRECTED BY ENGINEER.
 - 2.10 UPON INSTALLATION OF ALL FUTURE CATCHBASINS, CATCHBASIN MANHOLES, AND DOUBLE CATCHBASIN MANHOLES, GRATES SILT SACKS ARE TO BE INSTALLED AND INSPECTED FOLLOWING ALL 10mm OR GREATER RAIN STORM EVENTS, OR AS DIRECTED BY ENGINEER.
- 3.0 CONSTRUCTION NOTES**
- 3.1 ALL BLOCK AND AREA GRADING MUST COMPLY WITH THE TOWN OF OAKVILLE STANDARDS UNLESS OTHERWISE NOTED.
 - 3.2 ENGINEERED FILL TO BE PLACED IN 300mm THICK LIFTS AND MECHANICALLY COMPACTED TO 100% SPDMO AS RECOMMENDED AND APPROVED BY GEOTECHNICAL ENGINEER.
 - 3.3 ENGINEERED FILL PAD TO HAVE POSITIVE DRAINAGE AND SLOPE DOWN TO MATCH EXISTING GROUND.
 - 3.4 COMPACTION RESULTS AND CERTIFICATION FROM GEOTECHNICAL ENGINEER REQUIRED FOR ALL ENGINEERED FILL.
 - 3.5 GEOTECHNICAL ENGINEER SHALL ASSESS AND CONFIRM SUITABILITY OF EXISTING INSITU SOILS TO ACCEPT ENGINEERED FILL AND MEET SPECIFICATIONS.
 - 3.6 ALL FILLING OPERATIONS TO BE GRADED TO ENSURE SHEET FLOW DRAINAGE TO TEMPORARY INTERCEPTOR SWALES AND TEMPORARY SEDIMENT POND AS NOTED ON THIS PLAN AND THE SITE ALTERATION PLAN (DWG 102) FOR PRE-GRADING.
 - 3.7 THE LOCATION OF ALL UNDERGROUND AND ABOVEGROUND UTILITIES AND STRUCTURES IS NOT NECESSARILY SHOWN ON THESE DRAWINGS, AND, WHERE SHOWN, THE ACCURACY OF THE LOCATION OF SUCH UTILITIES AND STRUCTURES IS NOT GUARANTEED. BEFORE STARTING WORK, THE CONTRACTOR SHALL DETERMINE THE EXACT HORIZONTAL AND VERTICAL LOCATION OF ALL SUCH UTILITIES AND STRUCTURES, AND SHALL ASSUME ALL LIABILITY FOR DAMAGE TO THEM. THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ENGINEER OF ANY CONFLICTS WITH THE EXISTING UTILITIES.

TOWN OF OAKVILLE STANDARD ESC NOTES:

- a) 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 GRADUATION.
- b) 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
- c) EROSION AND SEDIMENT CONTROLS SHALL BE MAINTAINED IN PROPER WORKING ORDER AT ALL TIMES. DAMAGED OR CLOGGED DEVICES SHALL BE REPAIRED WITHIN 48 HOURS.
- d) 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 SHALL 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.
- e) 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 B AND C ABOVE.
- f) 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 AN APPROVED CLEAN UP PROCEDURE. THE OWNER OR OWNERS AGENT WILL ADDITIONALLY IMMEDIATELY NOTIFY THE TOWN.

EROSION & SEDIMENT CONTROL NOTES:

1. EROSION & SEDIMENT CONTROL MEASURES MUST BE INSTALLED PRIOR TO THE COMMENCEMENT OF SITE WORKS.
2. EROSION & SEDIMENT CONTROLS MUST BE INSPECTED ON A REGULAR BASIS AND AFTER EVERY RAIN FALL EVENT, AND MUST BE MAINTAINED AND REPAIRED IN A TIMELY MANNER TO PREVENT SEDIMENT FROM LEAVING THE SITE.
3. EXISTING AND PROPOSED CATCHBASINS ARE TO BE PROTECTED WITH FILTER CLOTH AND 150mm OF 50mm STONE COVER DURING CONSTRUCTION.
4. IT IS REQUIRED TO STABILIZE ALL AREAS THAT WILL REMAIN DISTURBED FOR MORE THAN 30 DAYS.
5. MUD MAT, SILT FENCE, AND CATCHBASIN PROTECTION ARE NOT TO BE REMOVED UNTIL COMPLETION OF CONSTRUCTION.

No.	ISSUE / REVISION	DATE
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 (2022/JULY/25)

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OAKVILLE URBAN CORE DEVELOPMENT
1005 DUNDAS ST & 3033 EIGHTH LINE
TOWN OF OAKVILLE

EROSION AND SEDIMENT CONTROL PLAN

CROZIER & ASSOCIATES
 Consulting Engineers

2800 HIGH POINT DRIVE
 SUITE 100
 MILTON, ON L7T 6P4
 905.875.0026 T
 905.875.4915 F
 WWW.CFCROZIER.CA

ISSUED FOR SPA (REV.#8)
 WAS STAMPED, SIGNED, & DATED
 H.SHAFI (P.Eng)
 2022/AUG/12

Drawn	J.B.	Design	J.B.	Project No.	1642-5143	
Check	H.S.	Check	A.S.	Scale	1:400	
					Dwg.	C 101

SUMP DETAIL

ALTERNATIVES

A PRECAST SLAB BASE

B CAST-IN-PLACE BASE

C PRECAST FLAT CAP

NOTES:

- The sump is measured from the lowest invert.
- Granular backfill shall be placed to a minimum thickness of 300mm all around the maintenance hole.
- Precast concrete components shall be according to OPSD 701.030, 701.031, or 701.032.
- Structure exceeding 5.0m in depth shall include safety platform according to OPSD 404.020.
- Pipe support according to OPSD 708.020.
- For benching and pipe opening details, see OPSD 701.021.
- For adjustment unit and frame installation, see OPSD 704.010.
- All dimensions are nominal.
- All dimensions are in millimetres unless otherwise shown.

ONTARIO PROVINCIAL STANDARD DRAWING
PRECAST CONCRETE MAINTENANCE HOLE
 1200mm DIAMETER
 Nov 2014 Rev 5
OPSD 701.010

1. Right angle bend
2. Tee connection
3. Three way junction
4. Four way junction
5. Straight through
6. Dead end
7. Wye connection
8. 45° bend

Maintenance Hole Diameter	No. 1-4			No. 5 and 6		No. 8	
	Inlet Hole	Outlet Hole	No. 7	Inlet Hole	Outlet Hole	Inlet Hole	Outlet Hole
1200	700	860	780	700	860	700	860
1500	860	1220	960	860	1170	860	1170
1800	1220	1485	1220	1220	1485	1220	1485
2400	1485	2020	1760	1485	2020	1485	2020
3000	1930	2450	2300	1930	2450	1930	2450
3600	2470	3085	2730	2470	3085	2470	3085

NOTES:

- Slopes shall be maintained from the outlet hole opening for top of benching.
- Concrete for benching shall be 30MPa.
- When benching is hand-finished, it shall be given wood float finish, channel shall be given steel trowel finish.
- Benching slope and height shall be as specified.
- When specified, maintenance holes that are 1200mm in diameter with a uniform channel for 200 or 250mm pipe may be pre-benched at the manufacturer with standardized benching slope and channel orientation.
- All dimensions are nominal.
- All dimensions are in millimetres unless otherwise shown.

ONTARIO PROVINCIAL STANDARD DRAWING
MAINTENANCE HOLE BENCHING AND PIPE OPENING ALTERNATIVES
 Nov 2014 Rev 4
OPSD 701.021

SECTION A - A
SECTION B - B

NOTES:

- REINFC. CONC. PRECAST CHAMBER OR MONOLITHIC CHAMBER TO MEET CURRENT OPSD.
- STEPS: 1ST STEP TO BE 450mm BELOW FINISHED ROAD GRADE. LAST STEP TO BE 300mm ABOVE BASE.
- VALVES TO BE FLANGED.
- THE TOP OF THE ROOF SLAB OF VALVE CHAMBERS SHALL BE MIN. 600mm BELOW FINISHED GRADE. AN ENGINEERED COLLAR MAY BE REQUIRED TO MAKE UP FOR ELEVATION DIFFERENCES.
- ADJUSTMENT UNITS TO BE MIN. 150mm TO MAX. 300mm.
- PARGING MIX ON ALL BRICK WORK TO BE 1:3 MORTAR MIX AND BE APPLIED 15mm THICK.
- ALL JOINTS AND LIFTING HOLES IN CHAMBER SECTIONS TO BE COMPLETELY FILLED WITH 1:3 MORTAR MIX AND POINTED BEFORE BACKFILLING.
- JOINT FILLER RUBBER GASKET BETWEEN ALL PRECAST SECTIONS (TYPICAL).
- RESTRAINING RODS AND T-HEAD BOLT WITH NUT ARE CORROSION-RESISTANT, FLUOROPOLYMER COATED, HIGH-STRENGTH LOW-ALLOY STEEL THAT CONFORMS TO ANS/AWSA C11/A21.11.
- FOR 300mm AND 400mm TEES, THE MAIN LINE CAN BE OFFSET FROM THE CENTRELINE OF CHAMBER UP TO 200mm AS NOTED.
- PETROLATUM COATING ON ALL FITTINGS AND BOLTS.
- ALL DIMENSIONS IN MILLIMETRES UNLESS OTHERWISE NOTED.
- PARGING MIX ON ALL BRICK WORK TO BE 1:3 MORTAR MIX.
- RUBBERIZED ROLL-TYPE BITUMINOUS WATERPROOFING MEMBRANE AND PRIMER, WATERPROOFING SHALL EXTEND COMPLETELY AROUND ALL JOINTS WITH A MINIMUM 300mm WIDE STRIP CENTERED ON THE JOINT, INSTALLED AS PER MANUFACTURER'S RECOMMENDATIONS.

THE REGIONAL MUNICIPALITY OF HALTON
 PUBLIC WORKS DEPARTMENT
PRECAST VALVE CHAMBERS FOR MAXIMUM 4 VALVES
 150mm TO 300mm
 Date: March 2019 Rev. 3 NTS
 REGION STANDARD RH 402.020

LAND USE	WIDTH m		RADIUS m	
	One-Way	Two-Way	min	max
Light Industrial, Commercial, and Apartment	4.5	7.5	7.2	12.0
Heavy Industrial	5.0	9.0	9.0	15.0

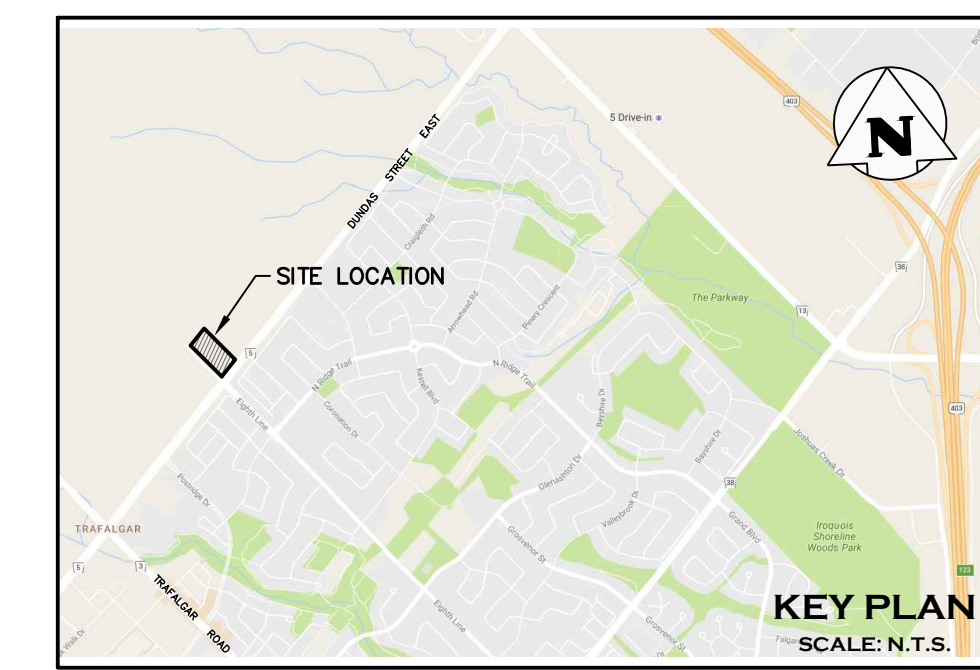
DRIVEWAY DIMENSIONS

PLAN

NOTES:

- All dimensions are in millimetres unless otherwise shown.

ONTARIO PROVINCIAL STANDARD DRAWING
URBAN INDUSTRIAL, COMMERCIAL, AND APARTMENT ENTRANCES
 Nov 2018 Rev 2
OPSD 350.010



PIPE IN SUPPORTED EXCAVATION
PIPE IN UNSUPPORTED EXCAVATION
PIPE IN UNSUPPORTED EXCAVATION
PIPE IN SUPPORTED EXCAVATION

CLASS B BEDDING
CLASS C BEDDING

LEGEND:
 D - Inside diameter
 OD - Outside diameter

Pipe Inside Diameter	Clearance mm
900 or less	300
Over 900	500

NOTES:

- Height of fill is measured from the finished surface to top of pipe.
- The minimum bedding depth below the pipe shall be 0.15D in no case shall this dimension be less than 150mm or greater than 300mm.
- The pipe bed shall be compacted and shaped to receive the bottom of the pipe.
- Pipe culvert frost treatment shall be according to OPSD 803.030 and 803.031.
- Condition of excavation is symmetrical about centreline of pipe.
- Soil types as defined in the Occupational Health and Safety Act and Regulations for Construction Projects.
- All dimensions are in metres unless otherwise shown.

ONTARIO PROVINCIAL STANDARD DRAWING
RIGID PIPE BEDDING, COVER, AND BACKFILL
 TYPE 1 OR 2 SOIL - EARTH EXCAVATION
 Nov 2015 Rev 3
OPSD 802.030

PIPE IN SUPPORTED EXCAVATION
PIPE IN UNSUPPORTED EXCAVATION
PIPE IN UNSUPPORTED EXCAVATION
PIPE IN SUPPORTED EXCAVATION

CLASS B BEDDING
CLASS C BEDDING

LEGEND:
 D - Inside diameter
 OD - Outside diameter

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ONTARIO PROVINCIAL STANDARD DRAWING
RIGID PIPE BEDDING, COVER, AND BACKFILL
 TYPE 3 SOIL - EARTH EXCAVATION
 Nov 2015 Rev 3
OPSD 802.031

STREETLINE
STREETLINE

OPTIONAL JOINT USE TRENCH DETAIL FOR GAS, TELECOM AND HYDRO

TOWN OF OAKVILLE
STANDARD STREET SECTION
 LOCAL ROADWAY
 20.0m RIGHT OF WAY
 EMPLOYMENT AREAS
 STD 7-22B
 REVISION DATE: 2011-2013

No.	ISSUE / REVISION	DATE
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 PLAN No.: 44-16-1 OLS FILE No.: 44-16/1M
 BEARINGS ARE GRID, NAD 83, 6' U.T.M., ZONE 17, CENTRAL MERIDIAN 81' WEST LONGITUDE, BEING RELATED TO CONTROL STATIONS 04519910052 & 00819800334
 DISTANCES ARE GROUND AND CAN BE CONVERTED TO GRID BY MULTIPLYING BY THE SCALE FACTOR OF 0.9997217

SITE PLAN NOTES:

DESIGN ELEMENTS ARE BASED ON SITE PLAN BY BARON NELSON ARCHITECTS INC. (2022/JULY/25)

DRAWING NOTES:

THIS DRAWING IS THE EXCLUSIVE PROPERTY OF C.F. CROZIER & ASSOCIATES INC. AND THE REPRODUCTION OF ANY PART OF IT WITHOUT PRIOR WRITTEN CONSENT OF THIS OFFICE IS STRICTLY PROHIBITED.

THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS, LEVELS, AND DATUMS ON SITE AND REPORT ANY DISCREPANCIES OR OMISSIONS TO THIS OFFICE PRIOR TO CONSTRUCTION.

THIS DRAWING IS TO BE READ AND UNDERSTOOD IN CONJUNCTION WITH ALL OTHER PLANS AND DOCUMENTS APPLICABLE TO THIS PROJECT. DO NOT SCALE THIS DRAWING.

ALL EXISTING UNDERGROUND UTILITIES TO BE VERIFIED IN THE FIELD BY THE CONTRACTOR PRIOR TO CONSTRUCTION.

GREATER THAN 4.5m SERVICE
LESS THAN 4.5m SERVICE

NOTES:

- CONNECTION TYPE FITTINGS ONLY. NO SOLDERED JOINTS ARE PERMITTED BEFORE THE WATER METE.
- WATER SERVICE CONNECTION IS 25.0mm TO 100.0mm. FIRE SERVICE CONNECTION IS 100.0mm TO 150.0mm.
- FIRE SERVICE CONNECTION TO BE MIN. 300mm.
- IF THE WATER MAIN IS 4.5m OR LESS FROM THE PROPERTY LINE, SERVICE IS PROVIDED BY CONNECTION BEFORE AREA IS EXCAVATED. IF SERVICE CONNECTION IS MORE THAN 4.5m FROM PROPERTY LINE, ALL SERVICE CONNECTIONS SHALL BE MADE AT MAIN STOP CURB STOP AND BOX. ALL SERVICE CONNECTIONS SHALL BE MADE AT MAIN STOP CURB STOP AND BOX. ALL SERVICE CONNECTIONS SHALL BE MADE AT MAIN STOP CURB STOP AND BOX. ALL SERVICE CONNECTIONS SHALL BE MADE AT MAIN STOP CURB STOP AND BOX.
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THE REGIONAL MUNICIPALITY OF HALTON
 PUBLIC WORKS DEPARTMENT
WATER SERVICE AND FIRE SERVICE CONNECTION INSTALLATIONS
 Date: August 2018 Rev. 1 NTS
 REGION STANDARD RH 409.010

BIRD CAGE CATCHBASIN FRAME AND COVER

NOTES:

- FRAME TO BE 2 A WETHERSPROOF & SON LTD. NO. 4011 OR EQUAL.
- COVER TO BE 2 A WETHERSPROOF & SON LTD. NO. 4011 OR EQUAL.
- FRAME AND COVER WEIGHT 186 kg.
- TO BE USED IN DITCHES, WATERCOURSES AND WHERE COVERED BY THE CURB.

MUNICIPALITY: TOWN OF OAKVILLE
 STANDARD 5-1
 REVISION DATE: 07/20/1995
 DIRECTOR OF PUBLIC WORKS

CONCRETE SIDEWALK DETAIL

SPECIFICATIONS & NOTES:

- CONCRETE SHALL BE AS PER OPSD 3350 AND A MINIMUM CONCRETE COVER OF 35mm Rq/m3
- IF COMMERCIAL DRIVEWAYS USE 150mm H-BOND REINFORCING STEEL BARS AT 300mm SPACING AT SIDEWALK
- JOINTS TO BE INSTALLED AS FOLLOWS:
 1) TYPICAL JOINTS AT 1.5m SPACING.
 2) TRANSVERSE JOINTS AT 25m SPACING OR AT ANY DIRECTIONAL CHANGE.
 3) CURING MEMBRANE (WHITE PIGMENTED) TO BE APPLIED AT RATE OF 4 SQUARE METRES PER LITRE.
- IN SANITARY AREA, A 0.15mm POLY SHEET TO BE INSTALLED IN PLACE OF SAND LEVELLING
- AT EACH END OF A DRIVEWAY FOR TYPE 'A' SIDEWALK, THE HEIGHT OF THE CURB SHALL BE VARIED FROM NORMAL HEIGHT TO DRIVEWAY HEIGHT OVER A DISTANCE OF 600mm.

MUNICIPALITY: TOWN OF OAKVILLE
 STANDARD 6-3
 REVISION DATE: 05/01/2003
 DIRECTOR OF PUBLIC WORKS

Engineer

ISSUED FOR SPA (REV.#8)
 WAS STAMPED, SIGNED, & DATED
 H.SHAFI (P.Eng)
 2022/AUG/12

CROZIER & ASSOCIATES
 Consulting Engineers

2800 HIGH POINT DRIVE
 SUITE 100
 MILTON, ON L9T 6P4
 905 875-0026 T
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 WWW.CFCROZIER.CA

Drawn: J.B. Design: J.B. Project No: **1642-5143**
 Check: H.S. Check: A.S. Scale: 1:300 Dwg: **C 104A**

CONSTRUCTION NOTES:

1.0 GENERAL

- 1.1 THE LOCATION OF ALL UNDERGROUND AND ABOVEGROUND UTILITIES AND STRUCTURES IS NOT NECESSARILY SHOWN ON THESE DRAWINGS, AND WHERE SHOWN, THE ACCURACY OF THE LOCATION OF SUCH UTILITIES AND STRUCTURES IS NOT GUARANTEED. BEFORE STARTING WORK, THE CONTRACTOR SHALL DETERMINE THE EXACT HORIZONTAL AND VERTICAL LOCATION OF ALL SUCH UTILITIES AND STRUCTURES, AND SHALL ASSUME ALL LIABILITY FOR DAMAGE TO THEM. THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ENGINEER OF ANY CONFLICTS WITH THE EXISTING UTILITIES.
1.2 ALL AREAS DISTURBED BY THE CONTRACTOR DURING THE CONSTRUCTION OF THE WORKS SHOWN HEREIN SHALL BE RESTORED TO ORIGINAL CONDITION OR BETTER AS DETERMINED BY THE PUBLIC WORKS DEPARTMENT AND ADJACENT LANDOWNERS. ALL GRASS AND VEGETATION COVERED AREAS SHALL BE RESTORED BY PLACING 100mm OF TOPSOIL AND NO. 1 NURSERY SOD TO ESTABLISH A GRASS COVER TO THE SATISFACTION OF THE TOWN UNLESS NOTED OTHERWISE.
1.3 TOWN OF OAKVILLE AND REGION OF HALTON STANDARD DRAWINGS AND OPSD WITH REGIONAL AMENDMENTS FOR SANITARY SEWERS AND WATERMAINS SHALL CONSTITUTE PART OF THE ENGINEERING DESIGN AND CONSTRUCTION CONTRACT. CONTRACTOR TO MAINTAIN CURRENT COPY OF TOWN, REGION AND ONTARIO STANDARDS ON SITE AT ALL TIMES.
1.4 ALTERNATIVE MATERIALS MAY BE ACCEPTABLE, PROVIDED APPROVAL HAS FIRST BEEN OBTAINED FROM THE TOWN ENGINEER AND/OR THE REGIONAL COMMISSIONER OF PUBLIC WORKS.
1.5 NO BLASTING IS PERMITTED.
1.6 MANHOLE AND VALVE CHAMBER COVERS ARE TO BE SET FLUSH WITH BASE COURSE ASPHALT AND ADJUSTED TO FINAL GRADE PRIOR TO INSTALLING TOP LIFT OF ASPHALT.
1.7 ALL TRENCHES WITHIN EXISTING R.O.W. ARE TO BE BACKFILLED IN ACCORDANCE WITH TOWN OF OAKVILLE REQUIREMENTS.
1.8 ALL MANHOLES, CATCHBASINS HYDRANTS, BOLLARDS AND SERVICE BOXES TO BE SUPPORTED BY A SQUARE CONCRETE COLLAR.
1.9 ALL DIMENSIONS TO BE CHECKED AND VERIFIED ON THE SITE PRIOR TO ANY CONSTRUCTION. ANY DISCREPANCIES ARE TO BE REPORTED TO THE ENGINEER BEFORE PROCEEDING.
1.10 CONTRACTOR TO PROVIDE SHOP DRAWINGS OF ALL MATERIALS AND PRODUCTS FOR REVIEW BY THE ENGINEER PRIOR TO INSTALLATION.
1.11 REFER TO TOWN AND REGION STANDARDS AND SPECIFICATIONS FOR LIST OF APPROVED MANUFACTURERS AND MATERIALS.
1.12 ENCRoACHMENT ONTO ADJACENT PROPERTIES IS NOT PERMITTED UNLESS OTHERWISE NOTED AND INSTRUCTED BY THE ENGINEER.
1.13 THE APPROVAL OF THIS PLAN DOES NOT EXEMPT THE OWNER'S CONTRACTOR FROM OBTAINING AND PAYING FOR PERMITS.
1.14 THIS PLAN IS TO BE READ IN CONJUNCTION WITH THE SITE PLAN, LANDSCAPE PLAN, SITE ELECTRICAL PLANS, AND ANY OTHER PLANS OR DRAWINGS WHICH DEPICT WORKS THAT ARE PROPOSED FOR THIS SITE.
1.15 THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL TRAFFIC CONTROL AND SAFETY MEASURES DURING THE CONSTRUCTION PERIOD, INCLUDING THE SUPPLY, INSTALLATION AND REMOVAL OF ALL NECESSARY SIGNAGE, DELINEATORS, MARKERS AND BARRIERS. ALL SIGNS, ETC. SHALL CONFORM TO THE STANDARDS AND SPECIFICATIONS FOR THE TOWN AND THE MTO MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES FOR ONTARIO.
1.16 THE CONTRACTOR SHALL ENDEAVOR TO PREVENT MUD TRACKING ONTO ADJACENT LANDS AND EXISTING ROADS AND SHALL PROVIDE FOR CLEANUP AT OWN EXPENSE AS DIRECTED BY THE TOWN AND ENGINEER. THE CONTRACTOR SHALL ALSO BE RESPONSIBLE TO CONTROL DUST ON THE PROJECT AND HE SHALL PROVIDE AT OWN EXPENSE DUST CONTROLLING MEASURES AS DIRECTED.
1.17 THE CONTRACTOR IS LOCATING AND PROTECTING ALL EXISTING ABOVE AND BELOW GROUND UTILITIES PRIOR TO AND DURING CONSTRUCTION.
1.18 ANY UTILITY RELOCATIONS DUE TO THIS DEVELOPMENT TO BE UNDERTAKEN AT THE EXPENSE OF THE OWNER.
1.19 ALL CONSTRUCTION WORK IS TO BE CARRIED OUT IN ACCORDANCE WITH THE REQUIREMENTS OF THE OCCUPATIONAL HEALTH AND SAFETY ACT AND REGULATIONS FOR CONSTRUCTIONS PROJECTS.
1.20 CONSTRUCTION ACCESS SHALL BE CONSTRUCTED PER DETAIL ON THIS PLAN, AND AS PER TOWN ENTRANCE PERMIT.
1.21 ALL EXISTING SEWERS ARE TO BE CONFIRMED ON SITE PRIOR TO CONSTRUCTION INCLUDING SEWER INVERTS, MATERIAL TYPE, AND SIZE. ANY DISCREPANCIES SHALL BE REPORTED TO THE ENGINEER.
1.22 CONTRACTOR SHALL FLUSH AND VIDEO STORM AND SANITARY SEWERS UPON INSTALLATION AND PROVIDE VIDEO TO ENGINEER. UPON COMPLETION OF LANDSCAPING, CONTRACTOR SHALL RE-FLUSH AND RE-VIDEO STORM AND SANITARY SEWERS AND PROVIDE SECOND VIDEO TO THE ENGINEER.
1.23 CONTRACTOR SHALL PROVIDE A DIGITAL AS-BUILT SURVEY OF ALL UNDERGROUND AND ABOVEGROUND WORKS TO THE SATISFACTION OF THE ENGINEER.
1.24 CONTRACTOR TO INSTALL A SNOW FENCE ON THE PERIMETER OF THE PROPERTY AND AT LOCATIONS DETERMINED BY THE MANAGER, DEVELOPMENT ENGINEERING, TOWN OF MILTON, PRIOR TO COMMENCEMENT OF ANY WORK. SNOW FENCE TO REMAIN IN PLACE FOR THE DURATION OF THE CONTRACT OR AS DIRECTED BY THE MANAGER, DEVELOPMENT ENGINEERING, TOWN OF MILTON.
1.25 SILT CONTROLS ARE TO BE IN PLACE PRIOR TO THE START OF SITE WORKS AND ARE TO BE MAINTAINED FOR THE DURATION OF THE CONSTRUCTION.
1.26 PRIOR TO COMMENCEMENT OF ANY WORKS WITHIN THE MUNICIPAL ROAD ALLOWANCE, THE OWNER IS RESPONSIBLE TO OBTAIN ALL NECESSARY PERMITS FROM THE ENGINEERING SERVICES DEPARTMENT, TOWN OF MILTON, FOR THE PURPOSES OF VEHICULAR ACCESS TO THE PROPERTY, (ENTRANCE PERMIT), AND SERVICING EXCAVATIONS, (ROAD OCCUPANCY PERMIT), WITHIN THE MUNICIPAL RIGHT OF ALLOWANCE.

2.0 SANITARY SEWERS

- 2.1 SANITARY MANHOLES AS PER O.P.S.D. 701.010 WITH FRAMES AND COVERS AS PER OPSD 401.010 TYPE 'A' UNLESS OTHERWISE NOTED ON THE DRAWINGS. COVERS TO BE EMBOSSED WITH THE WORD "SANITARY", LETTERS 75mm HIGH. THE WORD "SAN", "STORM" OR "WATER" TO BE CAST INTO LID IN ADDITION TO "DANGER". THE MINIMUM LETTER SIZE SHALL BE 75mm (3 INCHES) IN HEIGHT.
2.2 BENCHING IN MANHOLES TO BE AS PER OPSD 701.021 AS AMENDED BY THE REGION OF HALTON. BENCHING IN SANITARY MANHOLES TO BE TO THE OVERT OF THE PIPE.
2.3 SAFETY PLATFORMS AS PER OPSD 404.020 TO BE INSTALLED ONLY IN MANHOLES WHERE DEPTHS EXCEED 10.0m AS DIRECTED BY THE REGION AND AS INDICATED ON THE PROFILE DRAWINGS.
2.4 ALL SANITARY SERVICES TO BUILDINGS TO BE PVC SDR 28 IN ACCORDANCE WITH CSA-B182.2, ASTM D-3034 OR LATEST REVISIONS. RUBBER GASKET.
2.5 ALL SANITARY SERVICES TO BUILDINGS SHALL BE AT A MINIMUM SLOPE OF 1.0% (UNLESS NOTED OTHERWISE). ALL SERVICES TO TERMINATE 1.0m FROM BUILDING AND PLUGGED AND CAPPED WITH MANUFACTURER'S APPROVED PRODUCT.
2.6 SERVICES TO BE MIN. 2.15m AND MAX. 2.75m DEEP AT PROPERTY LINE. RISERS SHALL BE USED WHERE NOTED AS PER OPSD 1006.01.
2.7 CLASS "B" BEDDING ON ALL SEWERS AND CONNECTIONS AS PER THE REGION OF HALTON, UNLESS NOTED OTHERWISE.
2.8 GRANULAR BACKFILL AROUND MANHOLES SHALL BE COMPACTED BY MECHANICAL MEANS TO A MINIMUM OF 95% SPD.
2.9 ALL TESTING OF SANITARY SERVICES TO BE IN ACCORDANCE WITH OPSD.
2.10 EXISTING SANITARY MANHOLE(S) TO BE RE-BENCHED AND PARGED AS REQUIRED.
2.11 THE CONTRACTOR IS RESPONSIBLE FOR ALL REQUIRED TESTING BY THE MUNICIPALITY AND/OR ENGINEER AS APPLICABLE WHICH INCLUDES BUT NOT LIMITED TO:
SANITARY SEWERS
- PRECONSTRUCTION FLUSH & VIDEO OF EXISTING PRIVATE OR MUNICIPAL SEWERS TO CONFIRM CONDITIONS OF ANY SEWER TIES IN, TO THE SATISFACTION OF THE ENGINEER/MUNICIPALITY AS APPLICABLE.
- FLUSH & VIDEO ALL STORM AND SANITARY SEWERS AND PROVIDE THREE PHYSICAL COPIES OF REPORTS AND VIDEOS. THIS INCLUDES MAINLINE SEWERS, LATERALS, LEADS & SERVICES UP TO THE STUB. THE CCTV INSPECTION, INCLUDING FLUSHING AND CLEANING, IS TO BE CARRIED OUT AS DETAILED IN OPSD 409. ONE FLUSH & CCTV VIDEO ROUND IS TO BE COMPLETED AFTER THE PLACEMENT OF BASE ASPHALT. SECOND ROUND OF FLUSH & CCTV TO BE COMPLETED AFTER THE PLACEMENT OF TOP ASPHALT AND COMPLETION OF ALL LANDSCAPING. THIS ITEM TO ALSO INCLUDE THE CLEANING OF ALL STRUCTURES.
- MANDREL TESTING PER THE OPSD FOR ALL FLEXIBLE SANITARY AND STORM PIPES AFTER INSTALLATION, PRIOR BASE ASPHALT PLACEMENT.
- AIR TESTING FOR SANITARY SEWERS & STRUCTURES PRIOR BASE ASPHALT PLACEMENT, IF REQUESTED BY MUNICIPALITY.

- 3.0 WATERMAIN
3.1 WATERMAINS 100mm OR GREATER TO BE PVC CL150 (DR-18) WITH GASKETED JOINTS.
3.2 WATERMAINS GREATER THAN 200mm TO BE AWWA C900 PVC HIGH PRESSURE CLASS 200 WITH GASKETED JOINTS.
3.3 ALL WATER SERVICES (DOMESTIC & FIRE) TO BE EXTENDED 1.0m INTO THE BUILDING AND BE CAPPED WITH A MANUFACTURER APPROVED PRODUCT, AND BE MECHANICALLY RESTRAINED. THE FIRE LINE ENTERING THE BUILDING SHALL BE CLASS S2 CEMENT LINED DUCTILE IRON PIPE, BEGINNING A MINIMUM OF 1.5m OUTSIDE THE BUILDING FACE.
3.4 A MIN. HORIZONTAL SEPARATION OF 2.5m MUST BE MAINTAINED BETWEEN WATERMAINS AND SANITARY OR STORM SEWERS, INCLUDING SERVICE LATERALS.
3.5 A MIN. VERTICAL SEPARATION OF 0.5m BETWEEN WATERMAINS AND SEWERS MUST BE MAINTAINED.
3.6 CLASS "B" BEDDING ON ALL WATERMAINS AS PER THE REGION OF HALTON, UNLESS NOTED OTHERWISE.
3.7 ALL HYDRANTS AS PER OPSD 1105.01 TO HAVE STEAMER CONNECTIONS. HYDRANTS TO BE SUPPLIED WITH 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 NUT, AND STORZ CAP PAINTED GLOSS BLACK.
3.8 HYDRANTS SHALL BE INSTALLED SUCH THAT THE ROD STEM LENGTH SHALL NOT EXCEED 1.7m MEASURED FROM THE BREAK-OFF FLANGE. IF HYDRANT BARREL LENGTH EXCEEDS 1.7m THEN A HYDRANT THAT CAN BE RAISED FROM THE BOTTOM WITHOUT INCREASING ROD LENGTH IS TO BE USED.
3.9 ALL METALLIC WATERMAINS, FITTINGS, HYDRANTS AND RESTRAINERS TO HAVE CATHODIC PROTECTION IN ACCORDANCE WITH REGION OF HALTON STANDARD DRAWINGS RH 420.010 AND RH 420.020.
3.10 ALL SACRIFICIAL ANODES SHALL CONFORM TO A.S.T.M. B-418 TYPE II AND SHALL BE MADE OF HIGH GRADE ELECTROLYTIC ZINC, 99.99% PURE.
3.11 ANODE INSTALLATION IS NOT REQUIRED WITHIN VALVE-CHAMBERS, DRAIN CHAMBERS OR AIR RELEASE CHAMBERS.
3.12 ALL WELD CONNECTIONS TO BE COATED WITH "TC MASTIC" OR APPROVED EQUIVALENT.
3.13 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 MANUFACTURER'S INSTRUCTIONS.
3.14 WHERE NEW PIPE IS TO BE CONNECTED TO EXISTING DUCTILE IRON OR CAST IRON PIPE A 14.5KG MAGNESIUM ANODE IS TO BE CONNECTED TO THE FIRST LENGTH OF EXISTING PIPE, AS PER REGION OF HALTON STANDARD DRAWING RH 420.010.
3.15 ALL VALVES TO OPEN LEFT (COUNTER-CLOCKWISE) AND SHALL HAVE 50mm SQUARE STANDARD AWWA OPERATING NUT.
3.16 ALL PLUGS, CAPS, TEES, AND BENDS SHALL BE MECHANICALLY RESTRAINED AS PER MANUFACTURER'S SPECIFICATIONS. RESTRAINTS SHALL MEET UNI-B-13-92.
3.17 WHERE WATERMAIN IS PLACED IN FILL OR IN PREVIOUSLY DISTURBED GROUND ALL JOINTS TO BE MECHANICALLY RESTRAINED.
3.18 MINIMUM DEPTH OF COVER OVER WATERMAIN SHALL BE 1.7m.
3.19 THE DEPTH OF WATER SERVICES AT PROPERTY LINE SHOULD BE A MINIMUM OF 1.7m AND A MAXIMUM OF 2.0m. THE DISTANCE BETWEEN THE GROUND ELEVATION AND THE TOP OF THE ROD SHOULD BE BETWEEN 0.5m AND 1.0m.
3.20 WATER SERVICES CROSSING THE STORM SEWER TO HAVE MIN. 1.7m OF COVER. WHERE THIS CANNOT BE ACHIEVED, WATER SERVICES TO CROSS STORM SEWER TO BE UNDER STORM SEWER.
3.21 GATE VALVES CONFORMING TO AWWA C500 STANDARDS ARE REQUIRED ON WATERMAINS 300mm AND UNDER. LINE GATE VALVES SHALL HAVE AUGER OF SCREW TYPE VALVE BOXES.
3.22 ALL WATERMAIN FITTINGS SHALL HAVE MECHANICAL JOINTS.
3.23 VERTICAL AND HORIZONTAL ALIGNMENT OF WATERMAIN TO BE ACHIEVED BY DEFLECTION OF JOINTS AS PER MANUFACTURER'S SPECIFICATIONS. DEFLECTION IN THE BARREL IS NOT PERMITTED.
3.24 TRACER WIRE IS TO BE INSTALLED ON ALL NEW INSTALLATIONS OF PVC WATERMAIN PIPE FOR LOCATING PURPOSES. A SOLID 10 GAUGE TWO COPPER WIRE IS TO BE INSTALLED ALONG THE PIPE, STRAPPED TO THE PIPE AT 6m INTERVALS. JOINTS IN THE WIRE BETWEEN VALVES ARE NOT PERMITTED.
3.25 THE INSPECTOR MAY TEST THE TRACING WIRE FOR CONDUCTIVITY. IF THE TRACING WIRE IS NOT CONTINUOUS FROM VALVE TO VALVE, THE CONTRACTOR SHALL, AT HIS OWN EXPENSE, REPLACE OR REPAIR THE WIRE.
3.26 ALL WATER CUSTOMERS SUPPLIED BY A WATERMAIN TO BE SHUT DOWN SHALL BE NOTIFIED BY THE CONTRACTOR AT LEAST 24 HOURS IN ADVANCE OF THE SHUT DOWN AS PER REGION OF HALTON SPECIFICATIONS. NOTIFICATION SHALL TAKE PLACE UNDER THE ENGINEER'S DIRECTION.
3.27 OPERATION OF EXISTING WATERMAINS SHALL BE BY REGION OF HALTON STAFF ONLY.
3.28 WATERMAIN TESTING PROCEDURES TO MEET CRITERIA OF REGION OF HALTON, UNLESS OTHERWISE SPECIFIED. PRESSURE TEST REQUIRED AT 22PSID FOR 2HRS.
3.29 SERVICE CONNECTIONS FROM REGIONAL WATERMAIN TO BE ISOLATED DURING TESTING PROCEDURES, TO THE SATISFACTION OF THE REGION OF HALTON.
3.30 MODEL OF POST INDICATING VALVES TO MEET CRITERIA OF REGION OF HALTON AND FIRE DESIGN CONSULTANT.
3.31 MODEL OF CHECK VALVES TO MEET CRITERIA OF REGION OF HALTON AND FIRE DESIGN CONSULTANT.
3.32 THE CONTRACTOR TO INCLUDE IN THEIR SCOPE, THIRD PARTY TESTING INCLUDING REPORTS FOR ALL APPLICABLE WATERMAIN TESTING INCLUDING BUT NOT LIMITED TO FLUSHING, SWABBING, PRESSURE TESTING, CHLORINATION, BACKFLOW PREVENTOR TESTING, CONTINUITY TESTING & HYDRANT FLOW TESTING.

4.0 STORM SEWERS

- 4.1 ALL STORM SEWERS 450mm AND SMALLER TO BE PVC SDR-35 OR ULTRA-RIB CSA-B182.4, ASTM F794, ASTM D1784 OR LATEST REVISIONS.
4.2 ALL STORM SEWERS 525mm AND LARGER TO BE CONCRETE PER OPSD 1820 AND OPSD 1821.
4.3 BEDDING AND COVER FOR PVC SEWERS (FLEXIBLE PIPE) AS PER OPSD 802.010.
4.4 BEDDING AND COVER FOR CONCRETE SEWERS (RIGID PIPE) AS PER OPSD 802.030.
4.5 ALL STORM SERVICES TO BUILDINGS SHALL BE AT A MINIMUM SLOPE OF 1.0% (UNLESS NOTED OTHERWISE) ON THE "SNOW FENCE" TO TERMINATE 1.0m FROM BUILDING AND CAPPED WITH MANUFACTURER'S APPROVED PRODUCT.
4.6 STORM MANHOLES SHALL BE AS PER OPSD AS SPECIFIED. BENCHING TO SPRINGLINE OF PIPE AS PER OPSD 701.021. FRAME & COVER AS PER OPSD 401.010 TYPE "A". COVERS TO BE EMBOSSED WITH THE WORD "STORM", LETTERS 75mm HIGH. THE WORD "SAN", "STORM" OR "WATER" TO BE CAST INTO LID IN ADDITION TO "DANGER". THE MINIMUM LETTER SIZE SHALL BE 75mm (3 INCHES) IN HEIGHT.
4.7 ALL CATCH BASIN MANHOLES AS PER OPSD 705.010 AS SPECIFIED. FRAMES AND GRATES AS PER OPSD 400.010 WHEN ADJACENT TO CURB & 400.020 IN ALL OTHER CASES.
4.8 ALL MANHOLE AND CATCH BASIN ADJUSTMENTS SHALL BE AS PER OPSD 704.010. MAXIMUM OF THREE (3) UNITS AND 300mm HIGH, WHERE EXCEEDED CAST-IN-PLACE OR PRE-CAST RISER SECTIONS SHALL BE PROVIDED.
4.9 ALL SAFETY GRATES AS PER OPSD 404.020 FOR MANHOLES WHERE DEPTHS EXCEED 5.0m.
4.10 EXISTING STORM MANHOLE(S) TO BE RE-BENCHED TO OVERT OF PIPE AND PARGED AS REQUIRED.
4.11 ALL CATCH BASIN CONNECTIONS SHALL BE AS PER OPSD 708.010 (RIGID PIPE) AND OPSD 708.030 (FLEXIBLE PIPE).
4.12 ALL SEWER SERVICE CONNECTIONS FOR FLEXIBLE PIPE SHALL BE AS PER OPSD 1006.020.
4.13 ALL TESTING OF STORM SERVICES TO BE IN ACCORDANCE WITH ONTARIO PROVINCIAL STANDARD SPECIFICATIONS.
4.14 ALL CATCH BASIN LEADS TO BE 300mm UNLESS NOTED OTHERWISE.
4.15 INSULATION AS PER 1109.030 WHERE MINIMUM COVER OF 1.2 m CAN NOT BE MET.
4.16 THE CONTRACTOR IS RESPONSIBLE FOR ALL REQUIRED TESTING BY THE MUNICIPALITY AND/OR ENGINEER AS APPLICABLE WHICH INCLUDES BUT NOT LIMITED TO:
STORM SEWERS
- PRECONSTRUCTION FLUSH & VIDEO OF EXISTING PRIVATE OR MUNICIPAL SEWERS TO CONFIRM CONDITIONS OF ANY SEWER TIES IN, TO THE SATISFACTION OF THE ENGINEER/MUNICIPALITY AS APPLICABLE.
- FLUSH & VIDEO ALL STORM AND SANITARY SEWERS AND PROVIDE THREE PHYSICAL COPIES OF REPORTS AND VIDEOS. THIS INCLUDES MAINLINE SEWERS, LATERALS, LEADS & SERVICES UP TO THE STUB. THE CCTV INSPECTION, INCLUDING FLUSHING AND CLEANING, IS TO BE CARRIED OUT AS DETAILED IN OPSD 409. ONE FLUSH & CCTV VIDEO ROUND IS TO BE COMPLETED AFTER THE PLACEMENT OF BASE ASPHALT. SECOND ROUND OF FLUSH & CCTV TO BE COMPLETED AFTER THE PLACEMENT OF TOP ASPHALT AND COMPLETION OF ALL LANDSCAPING. THIS ITEM TO ALSO INCLUDE THE CLEANING OF ALL STRUCTURES.
- MANDREL TESTING PER THE OPSD FOR ALL FLEXIBLE SANITARY AND STORM PIPES AFTER INSTALLATION, PRIOR BASE ASPHALT PLACEMENT.
- AIR TESTING FOR SANITARY SEWERS & STRUCTURES PRIOR BASE ASPHALT PLACEMENT, IF REQUESTED BY MUNICIPALITY.

5.0 ROADWORKS

- 5.1 SUBGRADE TO BE PROOF ROLLED AND CERTIFIED PRIOR TO PLACING GRANULAR MATERIAL.
5.2 ASPHALTIC CONCRETE AND GRANULAR 'A' & 'B' BASE TO BE CONSTRUCTED AS PER GEOTECHNICAL REPORT PREPARED BY SPL CONSULTANTS.
5.3 H/3 AND H/8 TO BE COMPACTED TO 97% MARSHALL DENSITY, OR AS DIRECTED BY GEOTECHNICAL ENGINEER.
5.4 CONCRETE PAVEMENT TO BE CLASS OF EXPOSURE C-2 (NON-REINFORCED) 32MPa, CSA A23.1 OR OPSD MUNI 1350, OR AS DIRECTED BY GEOTECHNICAL ENGINEER.
5.5 GRANULAR 'A' & 'B' BASE TO BE COMPACTED TO 100% STANDARD PROCTOR MAXIMUM DRY DENSITY, ASTM-D698, OR AS DIRECTED BY GEOTECHNICAL ENGINEER.
5.6 ALL GRANULAR AND ASPHALT MATERIAL PLACEMENT TO BE IN ACCORDANCE WITH OPSD 314 & OPSD 310.
5.7 ALL CONCRETE CURB AS PER OPSD 600.040 AND SIDEWALK TO BE CONSTRUCTED IN ACCORDANCE WITH TOWN OF OAKVILLE STANDARDS.
5.8 ALL CURB AND RETAINING WALL SUBDRAINS TO BE CONSTRUCTED TO TOWN OF OAKVILLE STANDARDS, OR AS DIRECTED BY GEOTECHNICAL CONSULTANT.
5.9 SUBDRAINS TO BE PROVIDED IN ALL PARKING AREAS, EXTENDING FROM AND BETWEEN ALL CATCHBASINS. SUBDRAINS TO BE SPECIFIED BY GEOTECHNICAL ENGINEER.
5.10 ALL PAVEMENT REINSTATEMENT SHALL BE AS PER OPSD 509.010, FOR UTILITY CUTS, BACKFILL AS PER TOWN STD.
5.11 ALL ROAD RESTORATIONS AS PER REGION OF HALTON STD. 600.010 TO 600.050 TO EXISTING CONDITIONS OR BETTER.

6.0 AS-BUILT SURVEY

- 6.1 THE CONTRACTOR IS TO SUPPLY ALL AS-BUILT INFORMATION TO THE ENGINEER UPON COMPLETION OF WORKS. AS-BUILT INFORMATION TO INCLUDE A FULL TOPOGRAPHIC SURVEY OF THE SITE. THE AS-BUILT TO ALSO INCLUDE BUT NOT LIMITED TO: LAYOUT OF ALL SEWERS AND WATERMAIN, INVERTS AND TOP OF COVER/GRATES AT STRUCTURES, HEADWALLS AND ANY STORM WATER MANAGEMENT FEATURES.
6.2 THE AS-BUILT TO ALSO INCLUDE BUT NOT LIMITED TO CURBS, SIDEWALKS LONGITUDINAL AND CROSSFALL SLOPES, CENTER LINE OF ROADS AND EDGE OF PAVEMENT TO CHECK CROSS FALLS AND ROAD/PARKING LOT GRATES, HANDICAP RAMPS, ETC.. ANY DEVIATIONS FROM THE ORIGINAL DESIGN ARE TO BE INCLUDED IN THE AS-BUILT DRAWINGS. INFORMATION IS TO BE SUPPLIED TO THE CONTRACT ADMINISTRATOR IN BOTH CAD & PDF FORMATS.
6.3 THE AS-BUILT INFORMATION WILL BE REQUIRED ONCE AT BASE ASPHALT PLACEMENT COMPLETION AND AGAIN AFTER THE COMPLETION OF TOP ASPHALT & LANDSCAPING.
6.4 THE CONTRACTOR TO INCLUDE IN THEIR SCOPE TO CONFIRM CONDITIONS OF ANY WATERMAIN ELEMENTS (HYDRANTS, VALVE BOXES, WATER CHAMBERS, ETC) A MINIMUM THREE TIES IN TO EXISTING ABOVE GROUND VISIBLE PERMANENT REPERs (I.E. EXISTING POLES, CATCHBASINS, ETC.).

7.0 PERMITS

- 7.1 THE CONTRACTOR IS RESPONSIBLE FOR APPLYING, RECEIVING AND PAYING FOR ALL PERMITS REQUIRED TO CONSTRUCT THE WORKS INCLUDED IN CONTRACT. THE CONTRACTOR SHALL ALSO COMPLY WITH ALL CONDITIONS DICTATED BY SUCH PERMITS AT NO EXTRA COST TO THE OWNER.
7.2 CONTRACTOR SHALL OBTAIN ALL NECESSARY PERMITS AND APPROVALS PRIOR TO COMMENCING CONSTRUCTION. ALL PERMITS AND ASSOCIATED DRAWINGS AND CONDITIONS MUST BE ON-SITE AND AVAILABLE UPON REQUEST.

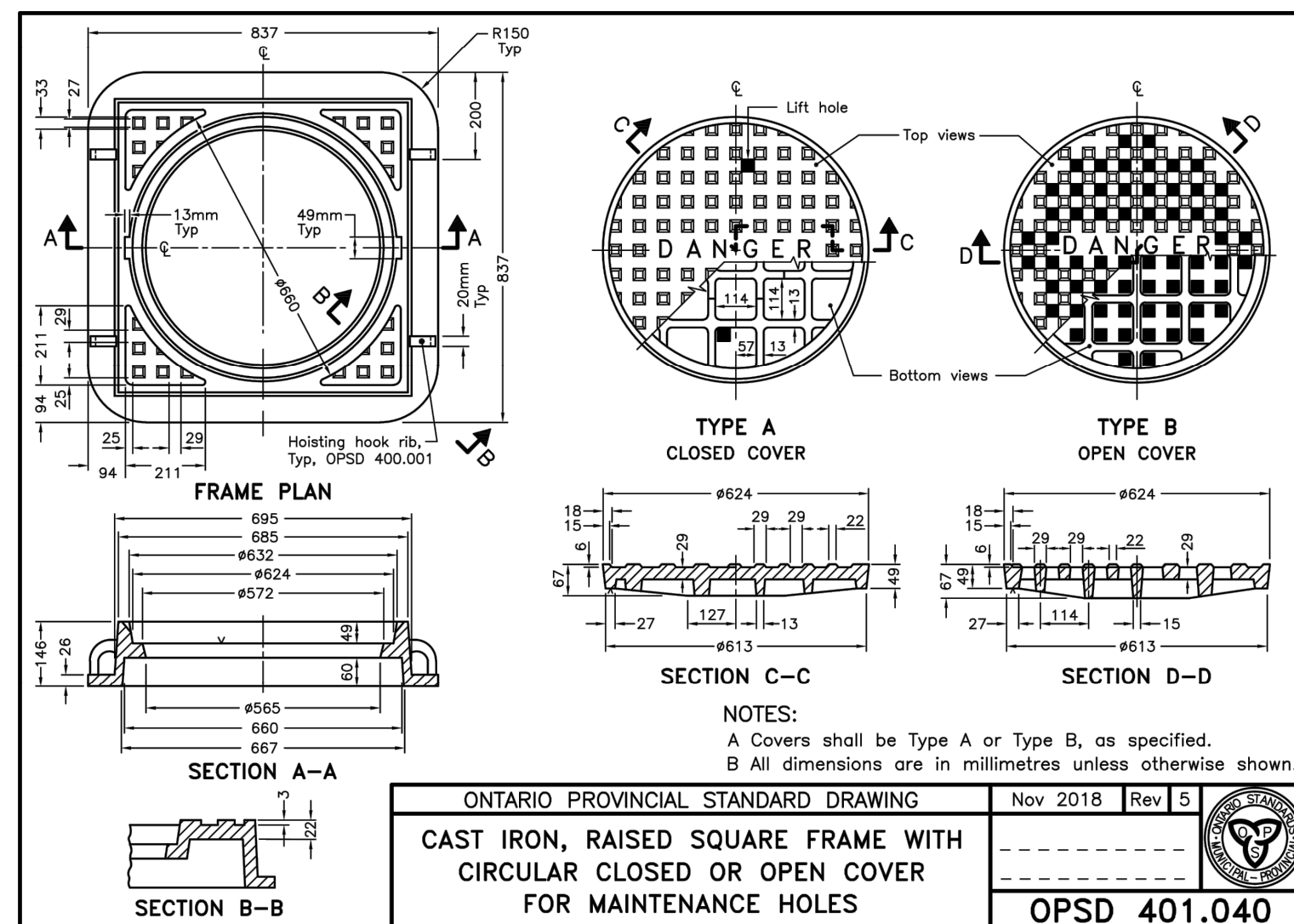
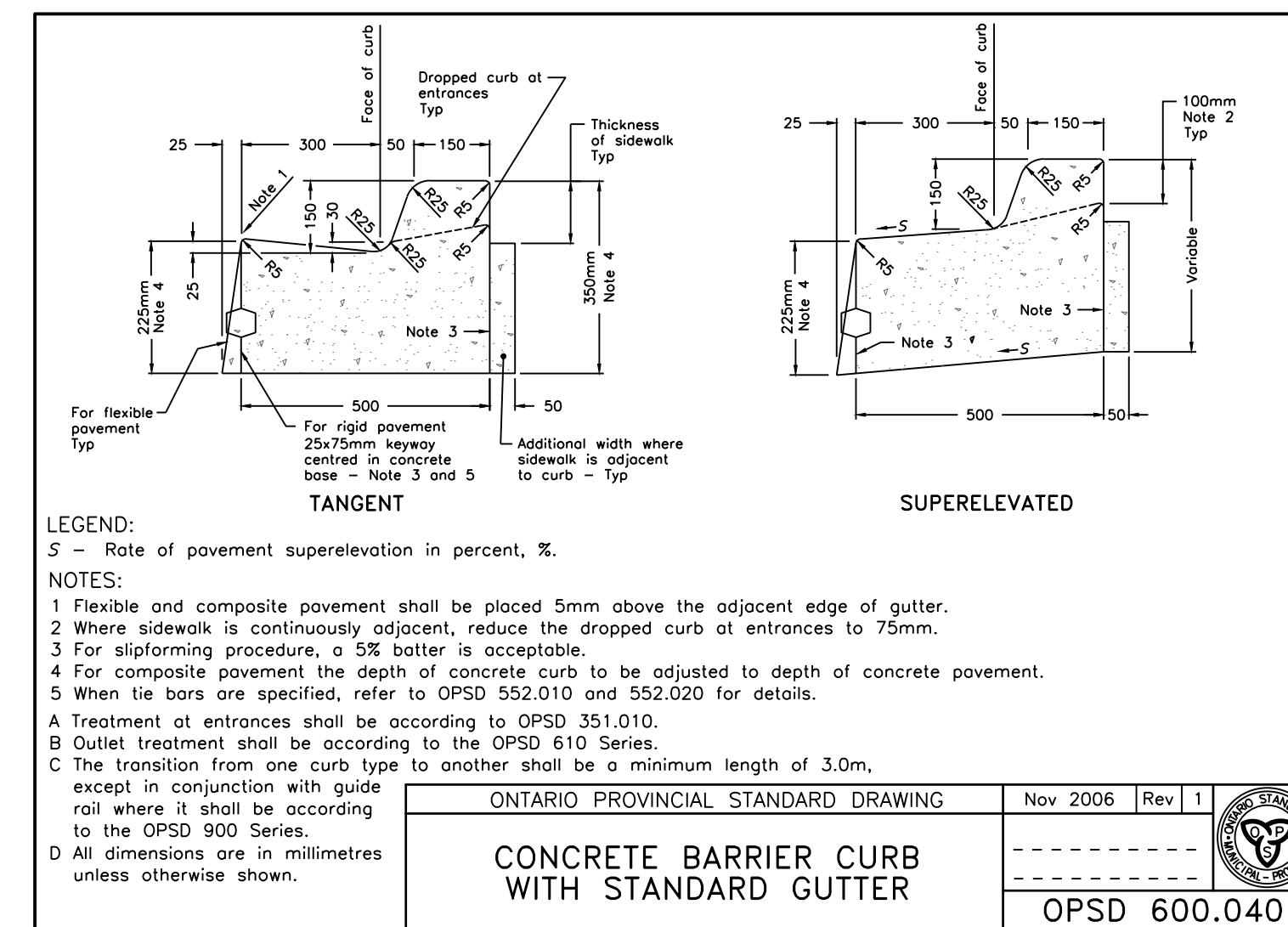
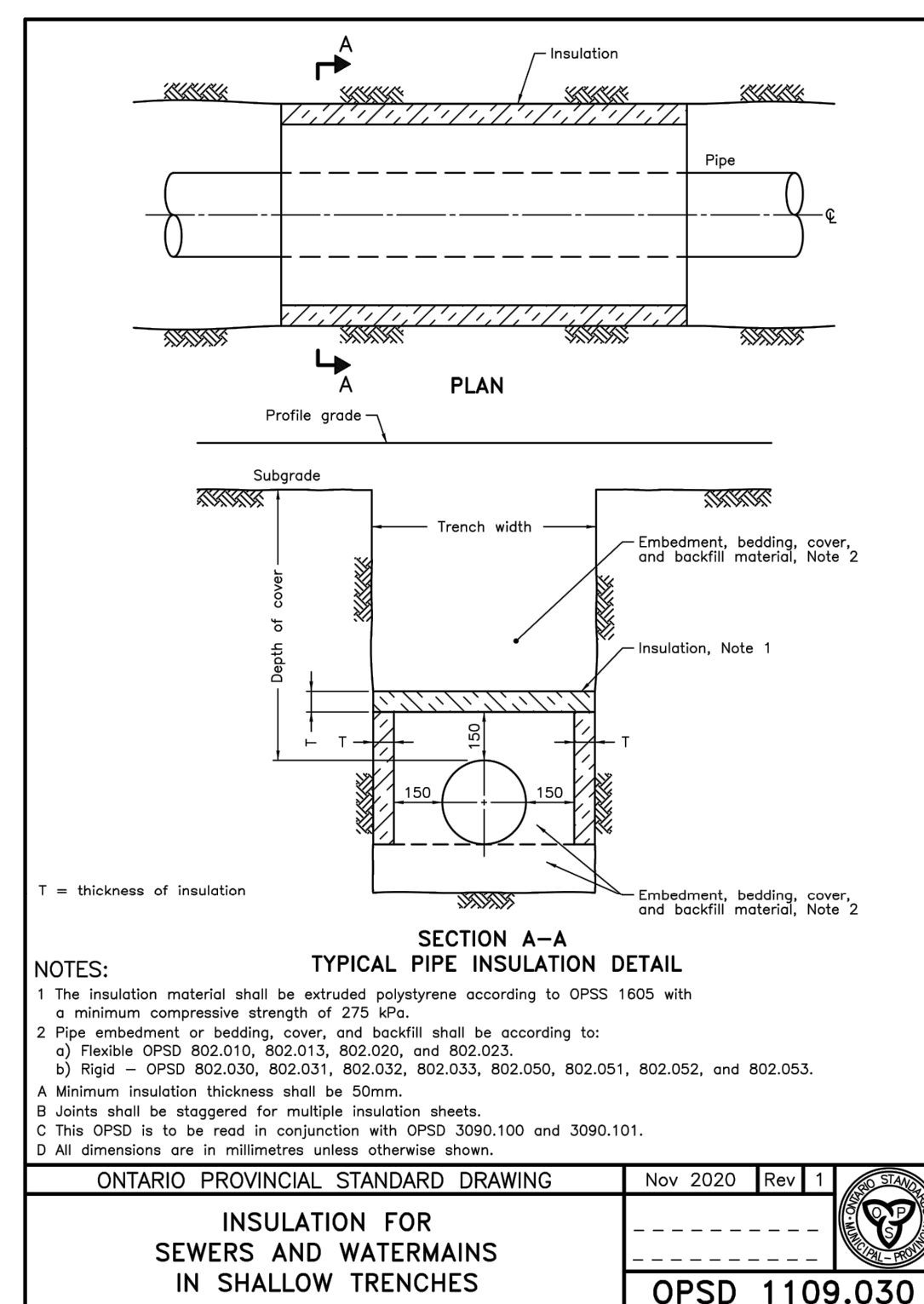
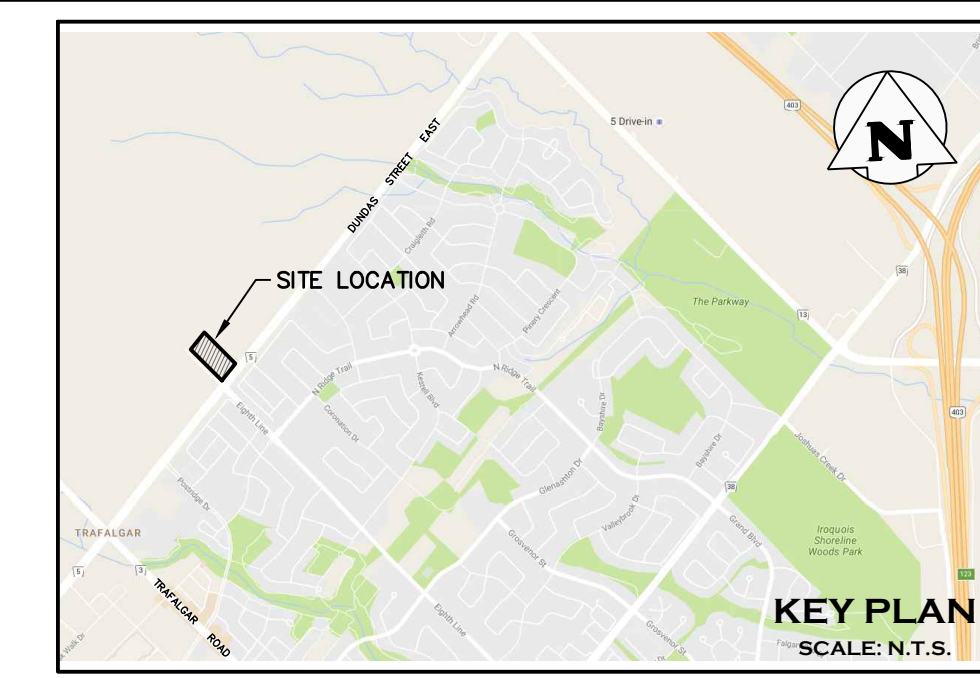


Table with 2 columns: No. and ISSUE / REVISION. Includes revision history for draft plan, ECA approval, construction, conditional permit, SPA, and permit resubmission.

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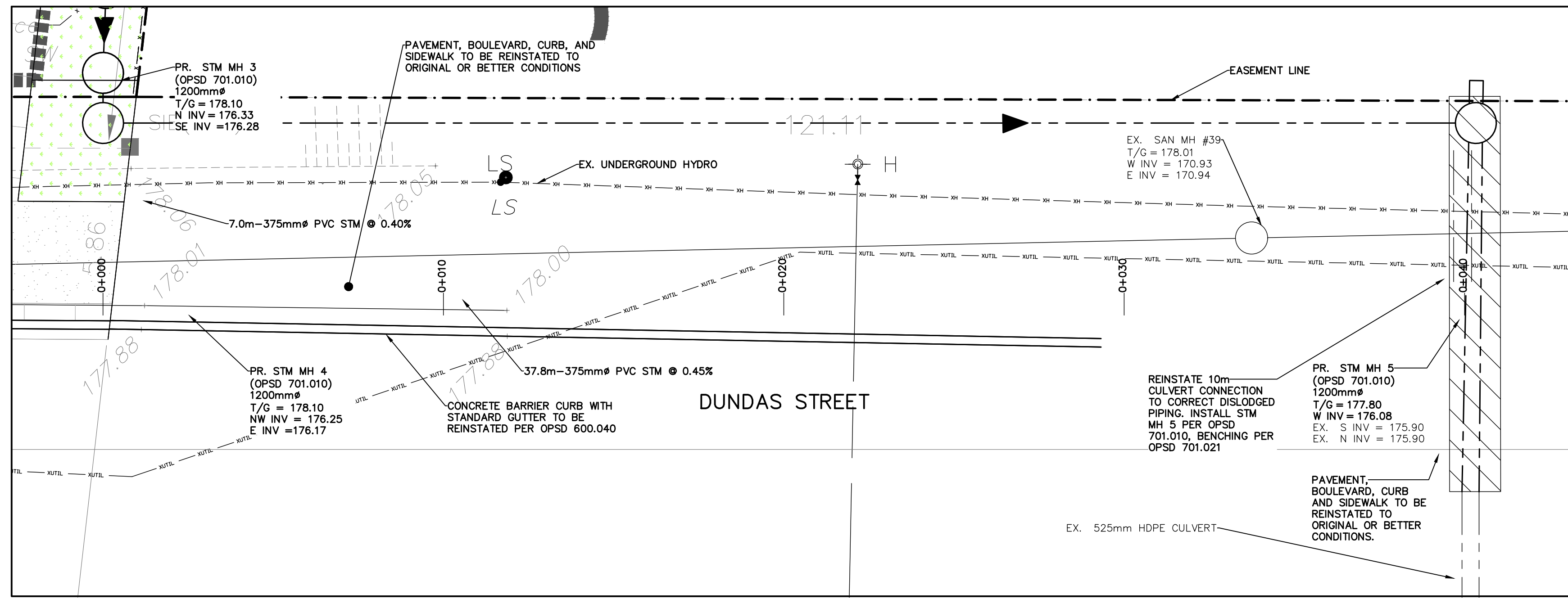
SURVEY NOTES: SURVEY COMPLETED BY CUNNINGHAM MCCONNELL LIMITED. (2019/FEB/11) PLAN NO: 44-16-1. OLS FILE NO.: 44-16/1M. BEARINGS ARE GRID, NAD 83, 6' U.T.M., ZONE 17, CENTRAL MERIDIAN 81° WEST LONGITUDE, BEING RELATED TO CONTROL STATIONS 04519910052 & 00819800334. DISTANCES ARE GROUND AND CAN BE CONVERTED TO GRID BY MULTIPLYING BY THE SCALE FACTOR OF 0.9997217.

DESIGN ELEMENTS ARE BASED ON SITE PLAN BY BARON NELSON ARCHITECTS INC. (2022/JULY/25). DRAWING NOTES: THIS DRAWING IS THE EXCLUSIVE PROPERTY OF C.F. CROZIER & ASSOCIATES INC. AND THE REPRODUCTION OF ANY PART OF IT WITHOUT PRIOR WRITTEN CONSENT OF THIS OFFICE IS STRICTLY PROHIBITED.

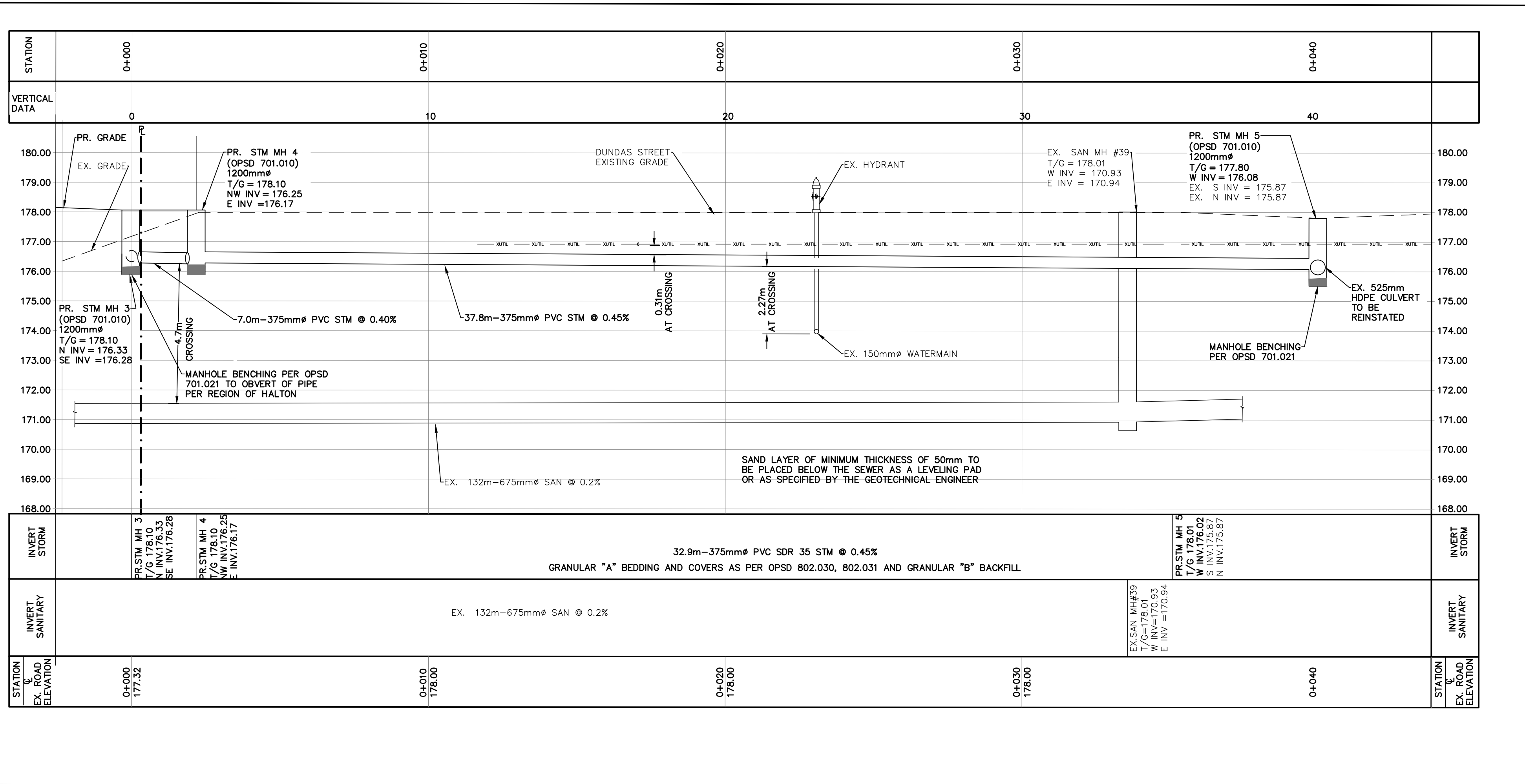
CONSTRUCTION NOTES AND DETAILS. OAKVILLE URBAN CORE DEVELOPMENT 1005 DUNDAS ST & 3033 EIGHTH LINE TOWN OF OAKVILLE.

Engineering details including project name, drawing title, issue status (ISSUED FOR SPA), date (2022/AUG/12), scale (1:300), and sheet number (C 104). Includes logos for Crozier & Associates Consulting Engineers and project information.

PLAN AT DUNDAS STREET
SCALE 1:100

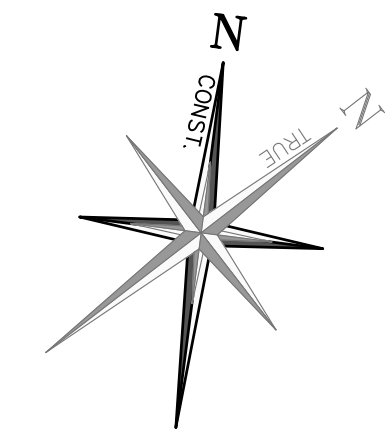


DUNDAS STREET PROFILE
VERT. SCALE 1:100
HOR. SCALE 1:100



NOTE:
PLAN AND PROFILE SHOWN FOR REFERENCE. FINAL PLAN AND PROFILE SHALL BE PER ENGINEERING SUBMISSION UNDER SEPARATE COVER TO THE REGION OF HALTON. FINAL DESIGN APPROVAL SHALL BE PER THE SERVICING AGREEMENT WITH HALTON REGION.

FOR GENERAL NOTES REFER TO DRAWING C104



LEGEND

	PROPERTY LINE
	EXISTING WATERMAIN & GATE VALVE
	EXISTING FIRE HYDRANT AND GATE VALVE
	EXISTING STORM SEWER
	EXISTING HYDRO POLE & OVERHEAD WIRES
	EXISTING CATCHBASIN
	EXISTING SANITARY SEWER
	EXISTING MANHOLE
	PROPOSED STORM SEWER
	PROPOSED STORM MANHOLE
	EXISTING HYDRO
	EXISTING UTILITIES

- EXISTING UTILITIES AND SERVICES**
- CONTRACTOR SHALL NOTE THAT THE CONSTRUCTION ZONE HAS NUMEROUS EXISTING UNDERGROUND UTILITIES AND SERVICES, SOME OF WHICH ARE TO BE ABANDONED OR REMOVED, AND OTHERS WHICH ARE TO BE PROTECTED AND MAINTAINED IN SERVICE.
 - PRIOR TO CONSTRUCTION THE CONTRACTOR SHALL RETAIN THE SERVICES OF A COMPANY, WHICH SPECIALIZES IN SUBSURFACE UTILITY ENGINEERING FOR THE PURPOSES OF LOCATING, MARKING AND SURVEYING ALL UNDERGROUND UTILITIES AND SERVICES. ALL CURRENT METHODS SHALL BE USED FOR THESE LOCATIONS INCLUDING ELECTRONIC METHODS, VACUUM EXCAVATIONS, SURVEYING MANHOLES AND CHAMBERS, ETC.
 - THE UTILITIES AND SERVICES SHALL BE SURVEYED AND TIED IN TO THE PROJECT COORDINATE SYSTEM. A COPY OF THE SURVEY SHALL BE PROVIDED TO THE ENGINEER FOR RECORD PURPOSES.
 - ANY CONFLICT WITH PROPOSED WORKS SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER.
 - THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL LOCATIONS FOR PROTECTION AND TEMPORARY RELOCATION OF UNDERGROUND UTILITIES AND SERVICES AS REQUIRED FOR THE COMPLETE INSTALLATION OF THE PROPOSED WORKS.

No.	ISSUE / REVISION	DATE
13	ISSUED FOR DRAFT PLAN OF CONDOMINIUM	2024/FEB/16
12	ISSUED FOR ECA APPROVAL	2024/JAN/15
11	ISSUED FOR SI 053	2023/AUG/21
10	ISSUED FOR CONSTRUCTION	2022/OCT/04
9	ISSUED FOR CONDITIONAL PERMIT	2022/AUG/29
8	ISSUED FOR SPA	2022/AUG/12
7	ISSUED FOR PERMIT RESUBMISSION	2022/JUNE/29
No.	ISSUE / REVISION	YYYY/MM/DD

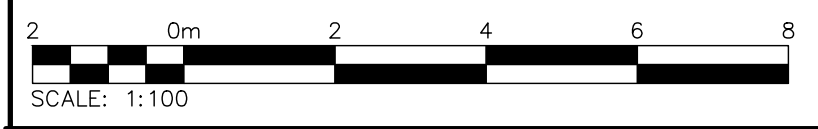
SURVEY NOTES:
SURVEY COMPLETED BY CUNNINGHAM MCCONNELL LIMITED. (2019/FEB/11)
PLAN No.: 44-16-1 OLS FILE No.: 44-16UTM
BEARINGS ARE GRID, NAD 83, 6' U.T.M., ZONE 17, CENTRAL MERIDIAN 81° WEST
LONGITUDE, BEING RELATED TO CONTROL STATIONS 04519910052 & 00819800334
DISTANCES ARE GROUND AND CAN BE CONVERTED TO GRID BY MULTIPLYING BY THE SCALE FACTOR OF 0.9997217

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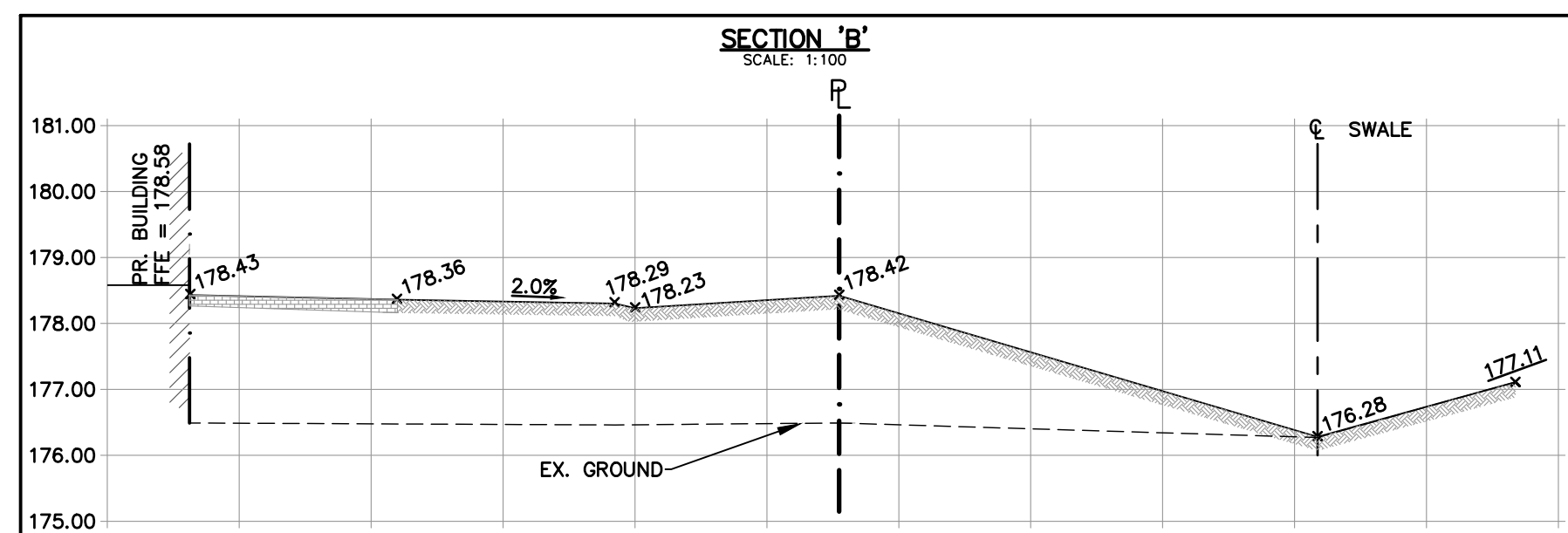
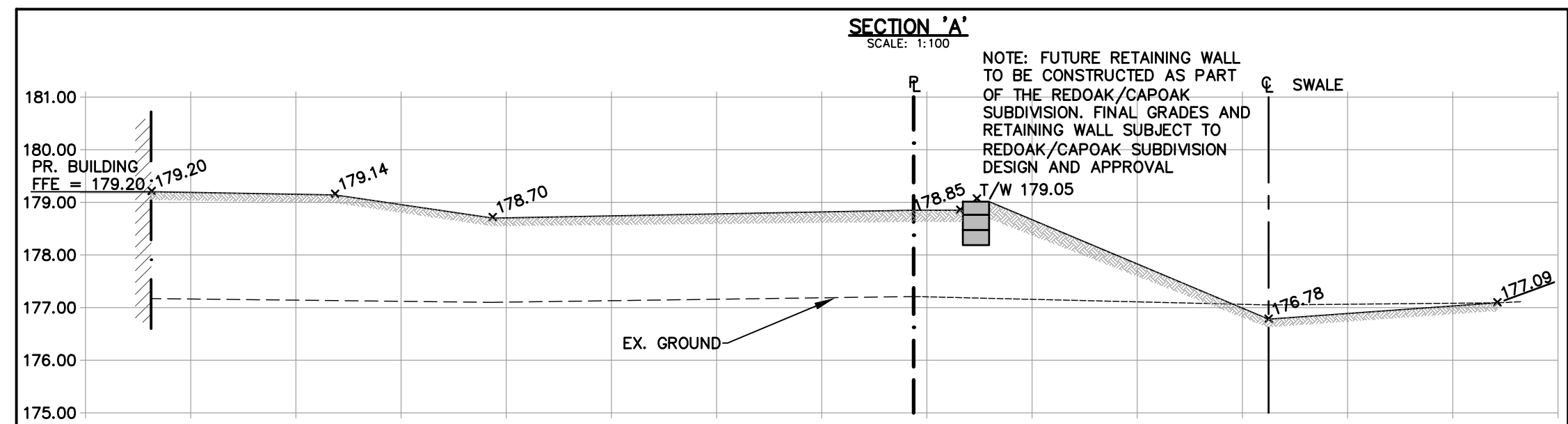
Project:
OAKVILLE URBAN CORE DEVELOPMENT
1005 DUNDAS ST & 3033 EIGHTH LINE
TOWN OF OAKVILLE

Drawing:
PLAN AND PROFILE 91.8m EAST OF
EIGHTH LINE AND DUNDAS STREET
INTERSECTION

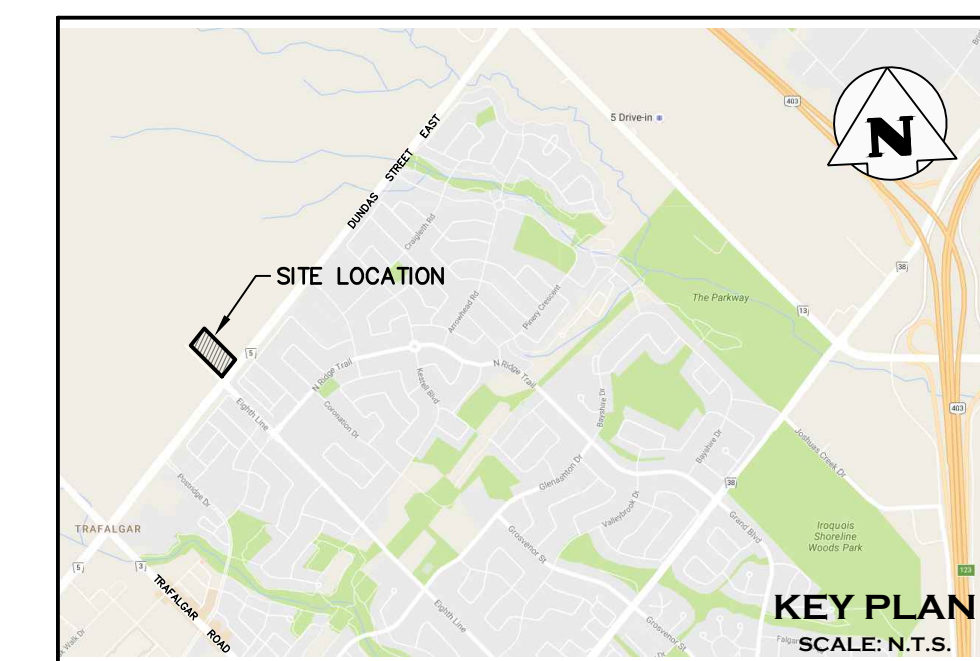
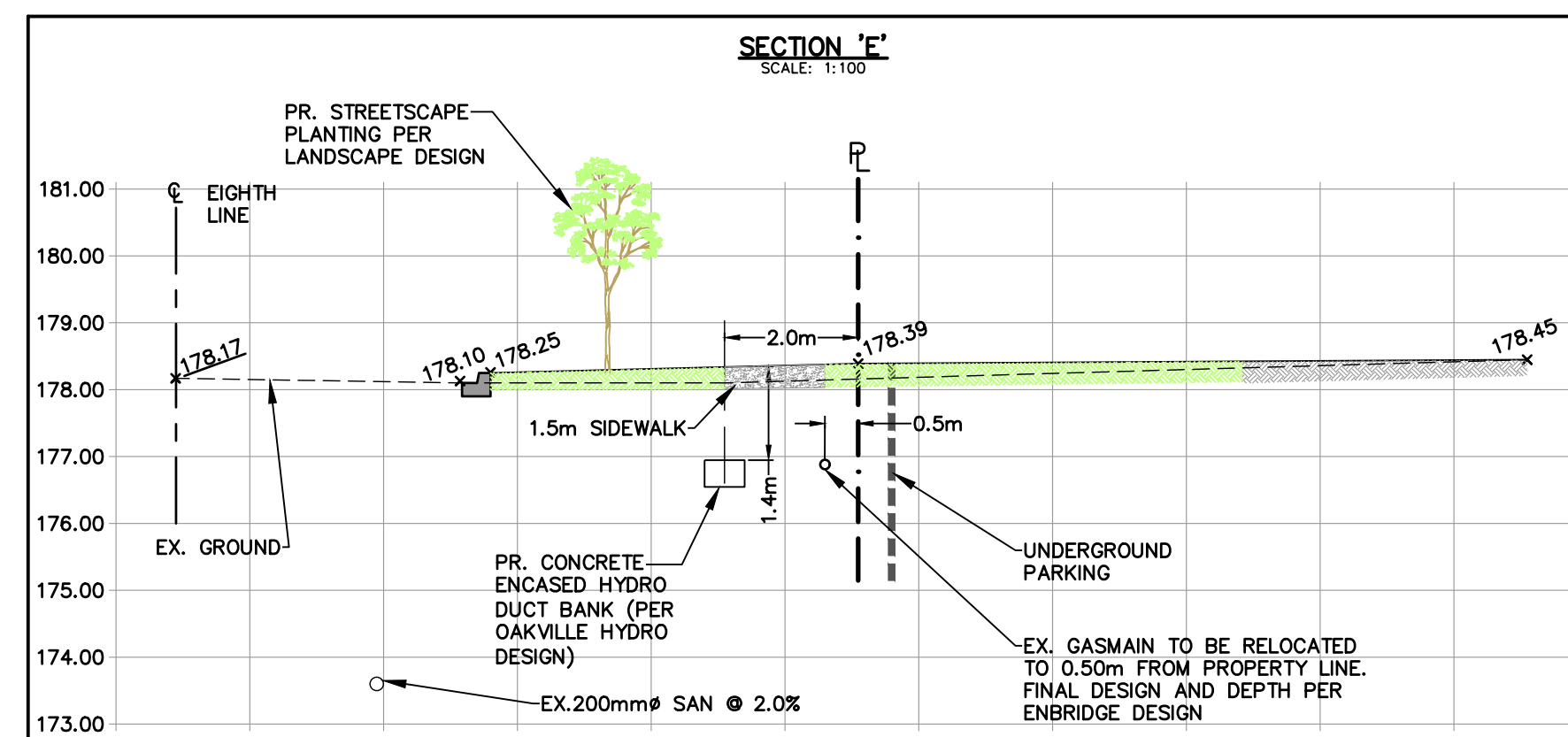


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Drawn	Design				Project No.
Check	H.S.	Scale	1:100	Dwg.	C 105

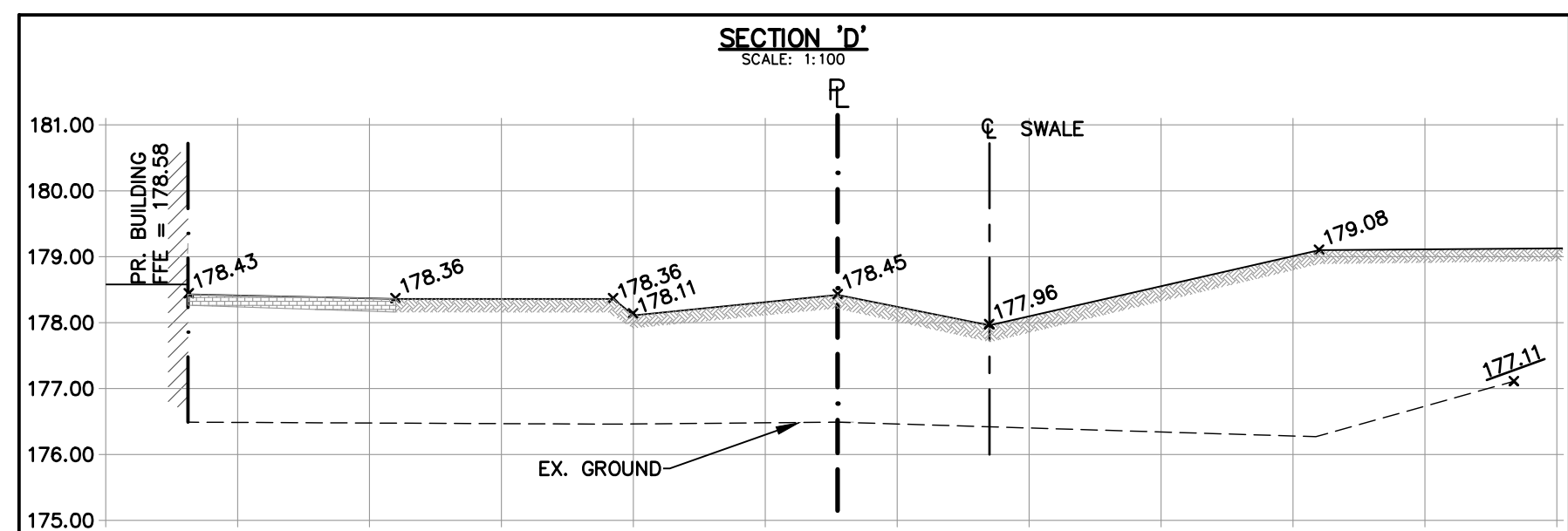
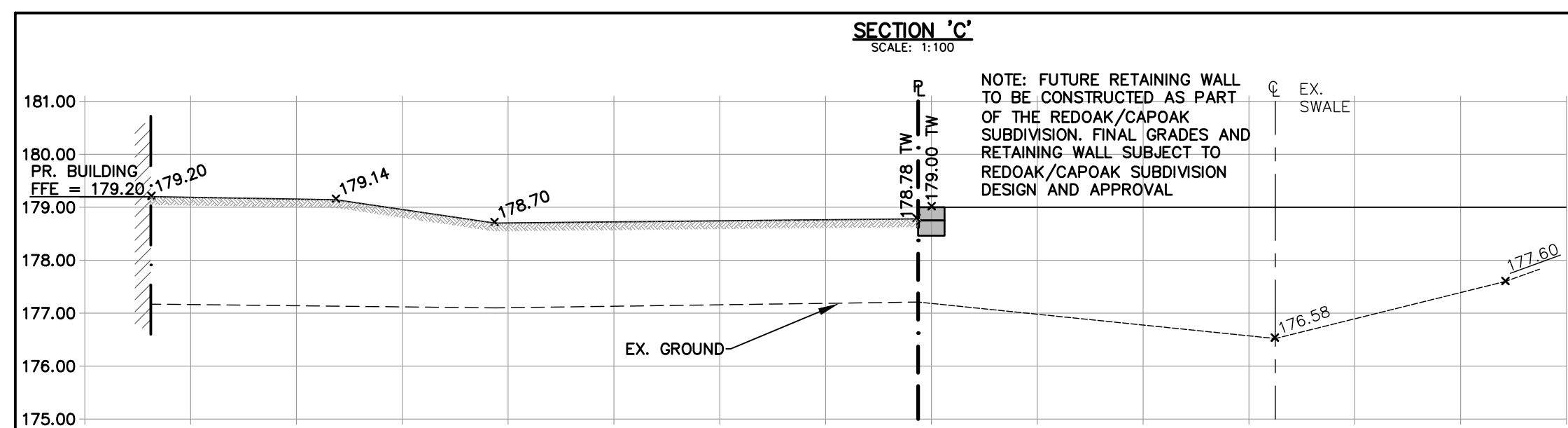
INTERIM CONDITIONS SECTIONS



EIGHTH LINE BOULEVARD CROSS-SECTION



ULTIMATE CONDITIONS SECTIONS



13	ISSUED FOR DRAFT PLAN OF CONDOMINIUM	2024/FEB/16
12	ISSUED FOR ECA APPROVAL	2024/JAN/15
11	ISSUED FOR SI 053	2023/AUG/21
10	ISSUED FOR CONSTRUCTION	2022/OCT/04
9	ISSUED FOR CONDITIONAL PERMIT	2022/AUG/29
8	ISSUED FOR SPA	2022/AUG/12
7	ISSUED FOR PERMIT RESUBMISSION	2022/JUNE/29
No.	ISSUE / REVISION	YYYY/MM/DD

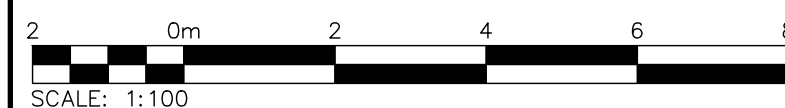
SURVEY NOTES:
 SURVEY COMPLETED BY CUNNINGHAM McCONNELL LIMITED. (2019/FEB/11)
 PLAN No.: 44-16-1 OLS FILE No.: 44-160TM
 BEARINGS ARE GRID, NAD 83, 6' U.T.M., ZONE 17, CENTRAL MERIDIAN 81° WEST
 LONGITUDE, BEING RELATED TO CONTROL STATIONS 04519910052 & 00819800334
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 (2022/JULY/25)

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Project
OAKVILLE URBAN CORE DEVELOPMENT
1005 DUNDAS ST & 3033 EIGHTH LINE
 TOWN OF OAKVILLE

Drawing
SECTIONS



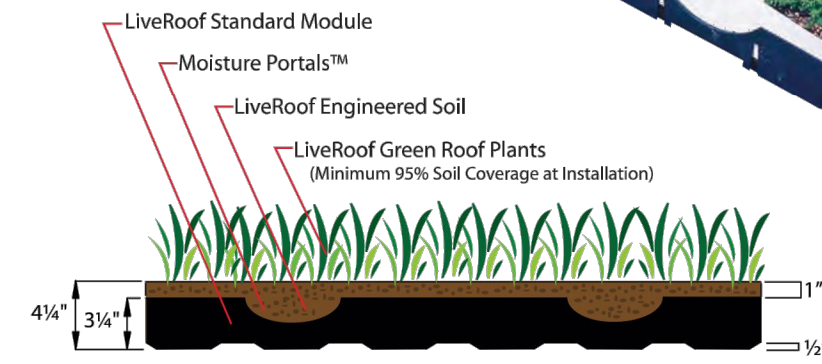
Engineer	Engineer	ISSUED FOR SPA (REV.#8) WAS STAMPED, SIGNED, & DATED H.SHAFI (P.Eng) 2022/AUG/12	2800 HIGH POINT DRIVE SUITE 100 MILTON, ON L9T 6P4 905 875-0026 T 905 875-4915 F WWW.CFCROZIER.CA
Drawn	Design		
Check	Check	Scale	Dwg.
D.B.	J.B.	1642-5143	C 106
H.S.	A.S.	1:100	



LiveRoof[®] Green Roof Systems "The Hybrid System"

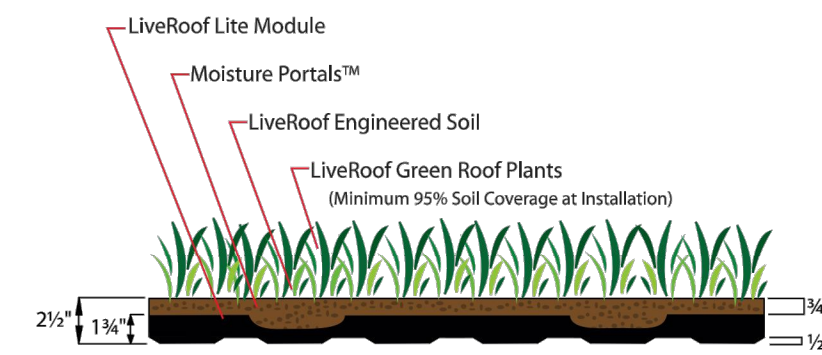
Standard

Soil Depth: Appx. 4 1/4"
Module Size: 1' x 2' x 3 1/4"
Weight: Appx. 27-29 lbs/sf saturated and vegetated.
Dry Weight: Appx. 20 lbs/sf (confirm with local grower).
Merits: Maximizes storm water management, integrates perfectly with new construction and often times existing buildings.
Plants: Succulent ground covers, water conserving accent plants, and hardy spring blooming bulbs.



Lite

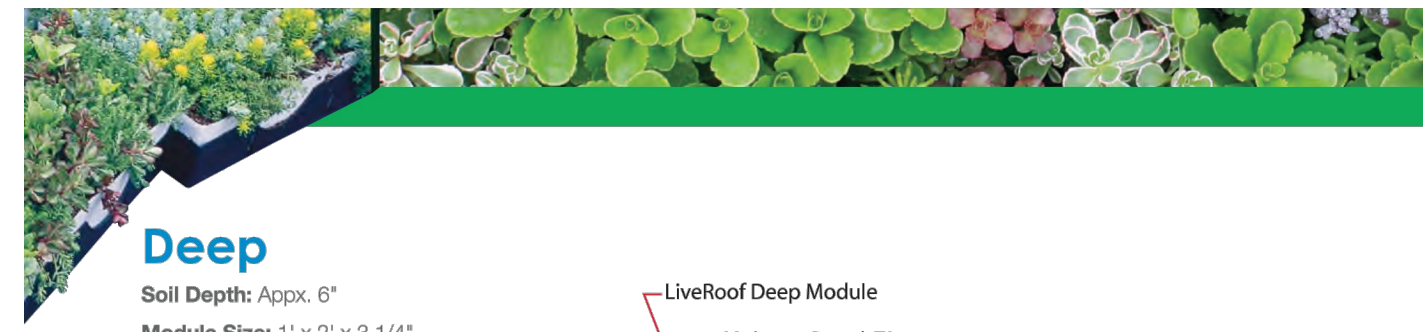
Soil Depth: Appx. 2 1/2"
Module Size: 1' x 2' x 1 3/4"
Weight: Appx. 15-17 lbs/sf saturated and vegetated.
Dry Weight: Appx. 12 lbs/sf (confirm with local grower).
Merits: Ideal for retrofit projects where load limitations exist.
Plants: Succulent ground covers and water conserving accent plants.
Note: Not recommended for hot climates.



X-Lite System is also available in some regions. 10 lbs./sq. ft.

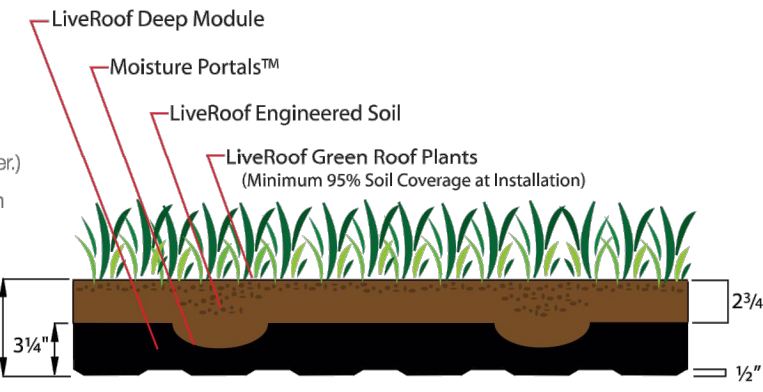
See inside back cover for LiveRoof grower nearest you.

Copyright 2019



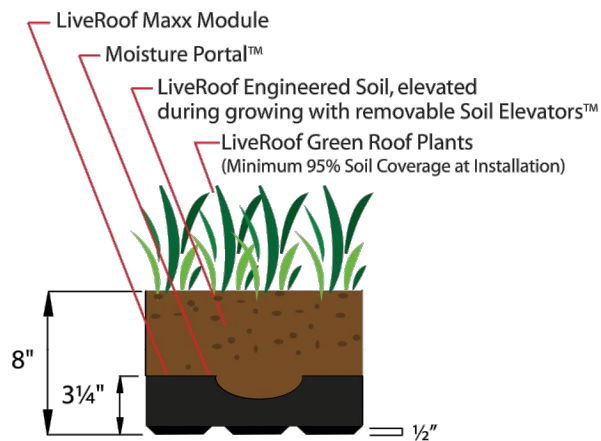
Deep

Soil Depth: Appx. 6"
Module Size: 1' x 2' x 3 1/4"
Weight: Appx. 40-50 lbs/sf saturated and vegetated.
Dry Weight: Appx. 30 lbs/sf (confirm with local grower).
Merits: When irrigated, expands plant options to an array of drought resistant conventional and native perennials, grasses, and vegetables.
Plants: Succulent ground covers, and highly drought tolerant native and adapted non-native perennials, grasses, and vegetables.



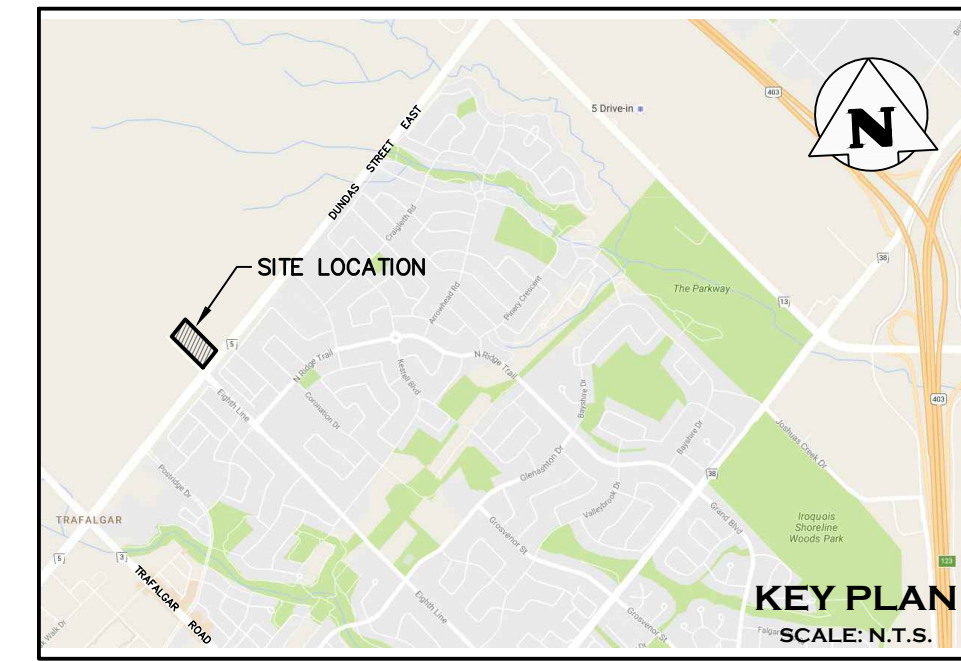
Maxx 8"

Soil Depth: Appx. 8"
Module Size: 1' x 1' x 3 1/4" Integrates with LiveRoof Standard and Deep systems.
Weight: Appx. 60-65 lbs/sf when saturated and vegetated.
Dry Weight: Appx. 40 lbs/sf (confirm with local grower).
Merits: Meets municipal codes in locales with 8 inch soil depth requirement. Provides greater perimeter ballast and supports drought resistant perennials, grasses, and vegetables, and can be used to optimize biodiversity.
Plants: Succulent ground covers, drought tolerant native and adapted non-native perennials, grasses, vegetables, vines and shrubs.



See inside back cover for LiveRoof grower nearest you.

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NOTE:
 CONTRACTOR TO OBTAIN SHOP DRAWING FROM THE MANUFACTURER FOR THE GREEN ROOF SYSTEM. THE FINAL INSTALLED SYSTEM SHALL BE PER LANDSCAPE AND ARCHITECTURAL REVIEW AND CONFIRMATION.

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8	ISSUED FOR SPA	2022/AUG/12
7	ISSUED FOR PERMIT RESUBMISSION	2022/JUNE/29
No.	ISSUE / REVISION	YYYY/MM/DD

SURVEY NOTES:
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 PLAN No.: 44-16-1 OLS FILE No.: 44-1607M
 BEARINGS ARE GRID, NAD 83, 6' U.T.M., ZONE 17, CENTRAL MERIDIAN 81° WEST
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Project
**OAKVILLE URBAN CORE DEVELOPMENT
 1005 DUNDAS ST & 3033 EIGHTH LINE
 TOWN OF OAKVILLE**

Drawing
GREEN ROOF SPECIFICATIONS

Engineer	Engineer	ISSUED FOR SPA (REV.#8) WAS STAMPED, SIGNED, & DATED H.SHAFI (P.Eng) 2022/AUG/12		<p>2800 HIGH POINT DRIVE SUITE 100 MILTON, ON L9T 6P4 905 875-0026 T 905 875-4915 F WWW.CFCROZIER.CA</p>	
Drawn	D.B.	Design	J.B.		Project No. 1642-5143
Check	H.S.	Check	A.S.	Scale	1:100 Dwg. C 107

N:\1600\1642-1005 Dundas St. Inc\5143-1005 Dundas St. & 3033 Eighth Line\CAD\Civil_Sheets\5143_C00.dwg, 2024-02-16 4:58:37 PM, AutoCAD PDF (General Documentation).pc3

- GENERAL NOTES:**
- ALL DIMENSIONS INDICATED ARE IN MILLIMETERS (INCHES) UNLESS OTHERWISE SPECIFIED.
 - JELLYFISH STRUCTURE INLET AND OUTLET PIPE SIZE AND ORIENTATION SHOWN FOR INFORMATIONAL PURPOSES ONLY.
 - UNLESS OTHERWISE NOTED, BYPASS INFRASTRUCTURE, SUCH AS ALL UPSTREAM DIVERSION STRUCTURES, CONNECTING STRUCTURES, OR PIPE CONDUITS CONNECTING TO COMPLETE THE JELLYFISH SYSTEM SHALL BE PROVIDED AND ADDRESSED SEPARATELY.
 - DRAWING FOR INFORMATION PURPOSES ONLY. REFER TO ENGINEER'S SITE/UTILITY PLAN FOR STRUCTURE ORIENTATION.
 - NO PRODUCT SUBSTITUTIONS SHALL BE ACCEPTED UNLESS SUBMITTED 10 DAYS PRIOR TO PROJECTS BID DATE, OR AS DIRECTED BY THE ENGINEER OF RECORD.

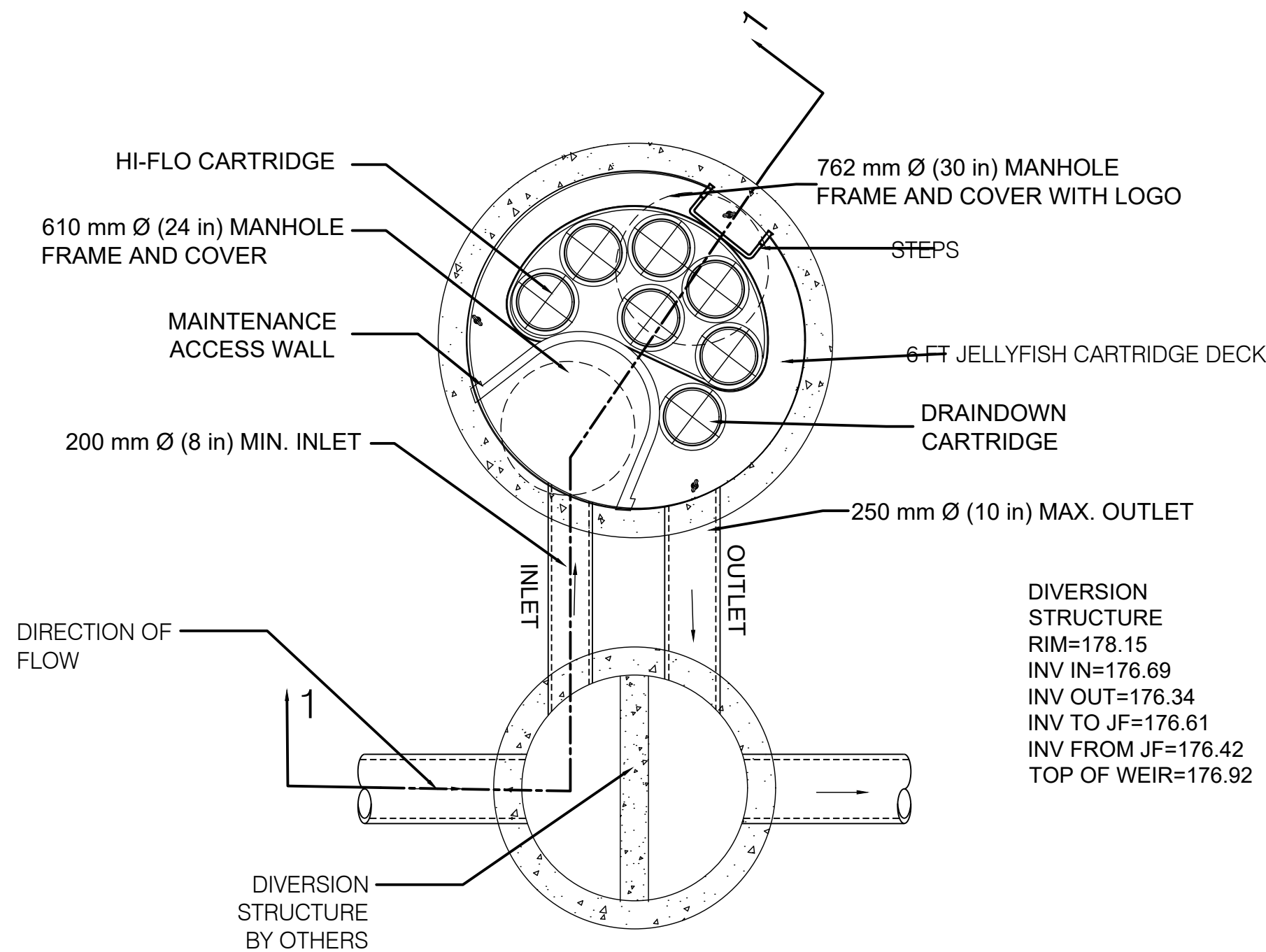
- JELLYFISH STRUCTURE & DESIGN NOTES:**
- 762 MM Ø (30") MAINTENANCE ACCESS WALL TO BE USED FOR CLEANOUT AND ACCESS BELOW CARTRIDGE DECK.
 - CASTINGS OR DOORS OF THE JELLYFISH MANHOLE STRUCTURE TO EXTEND TO DESIGN FINISH GRADE. DEPTHS IN EXCESS OF 3.65 M (12') MAY REQUIRE THE DESIGN AND INSTALLATION OF INTERMEDIATE SAFETY GRATES OR OTHER STRUCTURAL ELEMENTS.
 - CASTINGS AND GRADE RINGS, OR DOORS AND DOOR RISERS, OR BOTH, SHALL BE GROUTED FOR WATER/TIGHTNESS.
 - STRUCTURE SHALL MEET AASHTO HS-20, ASSUMING EARTH COVER OF 0' - 3' AND GROUNDWATER ELEVATION AT, OR BELOW, THE OUTLET PIPE INVERT ELEVATION. ENGINEER OF RECORD TO CONFIRM ACTUAL GROUNDWATER ELEVATION. CASTINGS SHALL MEET AASHTO M306 LOAD RATING AND BE CAST WITH THE IMBRIUM LOGO.
 - ALL STRUCTURAL SECTIONS AND PARTS TO MEET OR EXCEED ASTM C-478, ASTM C-443, AND ASTM D-4097 CORRESPONDING TO AASHTO SPECIFICATIONS, AND ANY OTHER SITE OR LOCAL STANDARDS.
 - CONCRETE RISER SECTIONS FROM BOTTOM TO TOP WILL BE ADDED AS REQUIRED INCLUDING TRANSITION PIECES TO SMALLER DIAMETER RISERS FOR SURFACE ACCESSES WHERE WARRANTED BY SERVING DEPTH.
 - IF MINIMUM DEPTH FROM TOP OF CARTRIDGE DECK TO BOTTOM OF STRUCTURAL TOP SLAB CANNOT BE ACHIEVED DUE TO PIPING INVERT ELEVATIONS OR OTHER SITE CONSTRAINTS, ALTERNATIVE HATCH CONFIGURATIONS MAY BE AVAILABLE. HATCH DOORS SHOULD BE SIZED TO PROVIDE FULL ACCESS ABOVE THE CARTRIDGES TO ACCOMMODATE MAINTENANCE.
 - STEPS TO BE APPROXIMATELY 330 MM (13") APART AND DIMENSIONS MUST MEET LOCAL STANDARDS. STEPS MUST BE INSTALLED AFTER CARTRIDGE DECK IS IN PLACE.
 - CONFIGURATION OF INLET AND OUTLET PIPE CAN VARY TO MEET SITES NEEDS.
 - IT IS THE RESPONSIBILITY OF OTHERS TO PROPERLY PROTECT THE TREATMENT DEVICE, AND KEEP THE DEVICE OFFLINE DURING CONSTRUCTION. FILTER CARTRIDGES SHALL NOT BE INSTALLED UNTIL THE PROJECT SITE IS CLEAN AND FREE OF DEBRIS, BY OTHERS. THE PROJECT SITE INCLUDES ANY SURFACE THAT CONTRIBUTES STORM DRAINAGE TO THE TREATMENT DEVICE. CARTRIDGES SHALL BE FURNISHED NEW, AT THE TIME OF FINAL ACCEPTANCE.
 - THIS DRAWING MUST BE VIEWED IN CONJUNCTION WITH THE STANDARD JELLYFISH SPECIFICATION, AND STORMWATER QUALITY FILTER TREATMENT JELLYFISH DOCUMENTS.

- INSTALLATION NOTES:**
- ANY SUB-BASE, BACKFILL DEPTH, AND/OR ANTI-FLOTATION PROVISIONS ARE SITE-SPECIFIC DESIGN CONSIDERATIONS AND SHALL BE SPECIFIED BY ENGINEER OF RECORD.
 - CONTRACTOR TO PROVIDE EQUIPMENT WITH SUFFICIENT LIFTING AND REACH CAPACITY TO LIFT AND SET THE STRUCTURE (LIFTING CLUTCHES PROVIDED).
 - CONTRACTOR WILL INSTALL AND LEVEL THE STRUCTURE, SEALING THE JOINTS, LINE ENTRY AND EXIT POINTS (NON-SHRINK GROUT WITH APPROVED WATERSTOP OR FLEXIBLE BOOT).
 - CONTRACTOR TO TAKE APPROPRIATE MEASURES TO PROTECT CARTRIDGES FROM CONSTRUCTION-RELATED EROSION RUNOFF.
 - CARTRIDGE INSTALLATION, BY IMBRIUM, SHALL OCCUR ONLY AFTER SITE HAS BEEN STABILIZED AND THE JELLYFISH UNIT IS CLEAN AND FREE OF DEBRIS. CONTACT IMBRIUM TO COORDINATE CARTRIDGE INSTALLATION WITH SITE STABILIZATION.

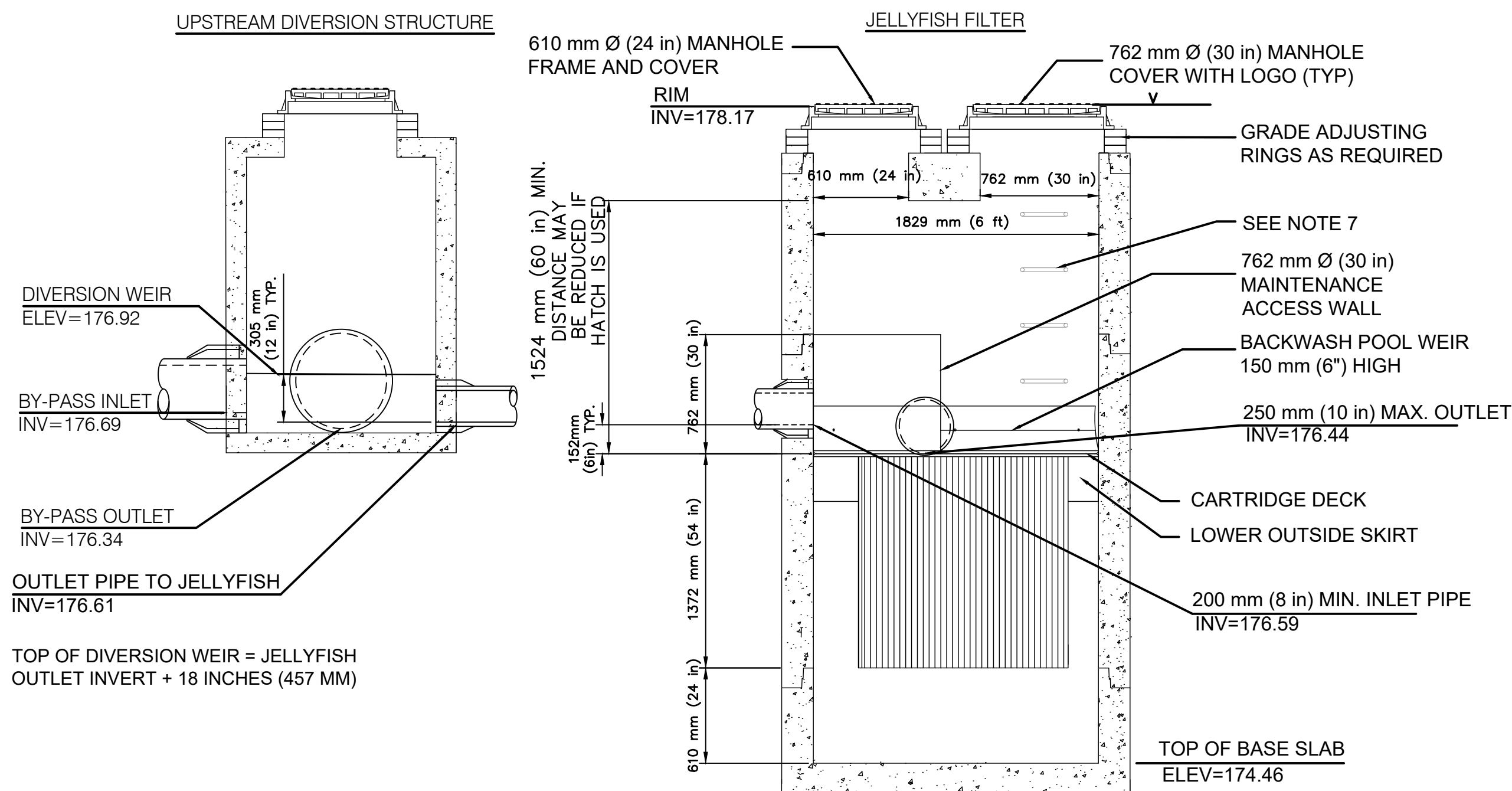
STANDARD OFFLINE JELLYFISH RECOMMENDED PIPE DIAMETERS			
MODEL DIAMETER (m)	MINIMUM ANGLE INLET/OUTLET PIPES	MINIMUM INLET PIPE DIAMETER (mm)	MINIMUM OUTLET PIPE DIAMETER (mm)
1.2	62	150	200
1.8	59	200	250
2.4	52	250	300
3.0	48	300	450
3.6	40	300	450

CONTACT IMBRIUM SYSTEMS FOR ALTERNATE PIPE DIAMETERS

FOR SITE SPECIFIC DRAWINGS PLEASE CONTACT YOUR LOCAL JELLYFISH FILTER REPRESENTATIVE. SITE SPECIFIC DRAWINGS ARE BASED ON THE BEST AVAILABLE INFORMATION AT THE TIME. SOME FIELD REVISIONS TO THE SYSTEM LOCATION OR CONNECTION PIPING MAY BE NECESSARY BASED ON AVAILABLE SPACE OR SITE CONFIGURATION REVISIONS. ELEVATIONS SHOULD BE MAINTAINED EXCEPT WHERE NOTED ON BYPASS STRUCTURE.

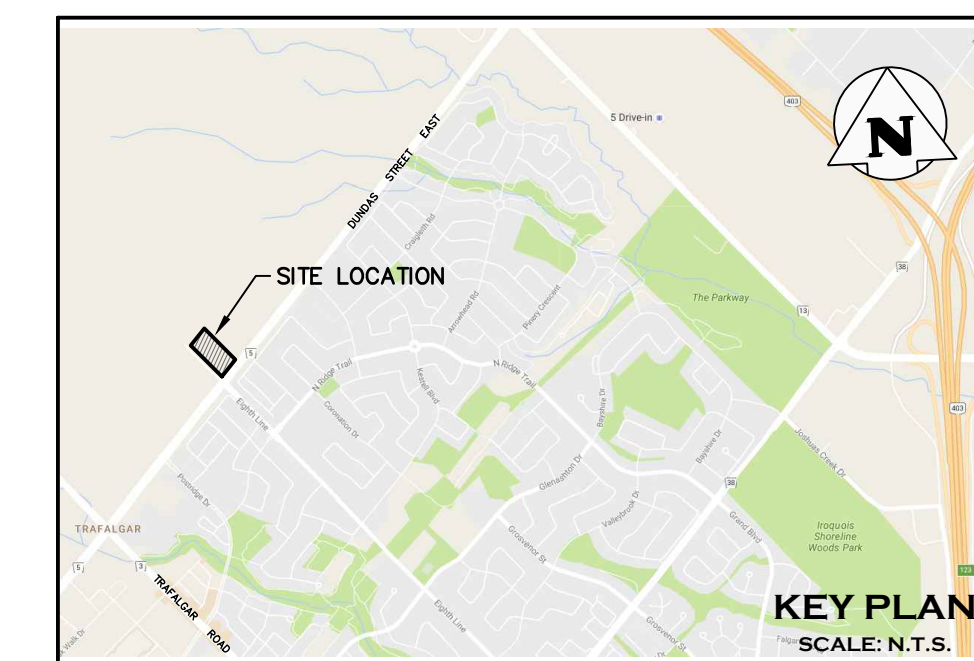


OFFLINE LAYOUT



CROSS SECTION 1-1

1219 mm x 1219 mm (48 in x 48 in) OPTIONAL HATCH



JELLYFISH DESIGN NOTES

JELLYFISH TREATMENT CAPACITY IS A FUNCTION OF THE CARTRIDGE SELECTION AND THE NUMBER OF CARTRIDGES. THE STANDARD MANHOLE STYLE IS SHOWN. Ø1829 mm (72") MANHOLE JELLYFISH PEAK TREATMENT CAPACITY IS 32.8 L/s (1.16 CFS). TREATMENT FLOW RATE IS BASED ON 457 MM (18") OF HEAD PRESSURE.

CARTRIDGE SELECTION	54"	40"	27"	15"
CARTRIDGE DEPTH	90"	76"	63"	51"
OUTLET INVERT TO STRUCTURE BASE SLAB	5.09 / 2.55	3.68 / 1.84	2.55 / 1.27	1.41 / 0.71
SEDIMENT CAPACITY HIGH-FLO / DRAINDOWN (kg) (per cart)	57 / 28	42 / 21	28 / 14	16 / 8
MAX. CARTS HIGH-FLO/DRAINDOWN	6 / 1			
MAX. SEDIMENT CAPACITY (kg)	370	273	182	104
MAX. TREATMENT (L/s)	32.8	24.6	16.4	9.06

NOTE: SHOP DRAWING PROVIDED FOR MUNICIPAL APPROVAL ONLY. CONTRACTOR TO OBTAIN SHOP DRAWING FROM SUPPLIER FOR ENGINEER REVIEW AND APPROVAL.

No.	ISSUE / REVISION	DATE
13	ISSUED FOR DRAFT PLAN OF CONDOMINIUM	2024/FEB/16
12	ISSUED FOR ECA APPROVAL	2024/JAN/15
11	ISSUED FOR SI 053	2023/AUG/21
10	ISSUED FOR CONSTRUCTION	2022/OCT/04
9	ISSUED FOR CONDITIONAL PERMIT	2022/AUG/29
8	ISSUED FOR SPA	2022/AUG/12
7	ISSUED FOR PERMIT RESUBMISSION	2022/JUNE/29
No.	ISSUE / REVISION	YYYY/MM/DD

SURVEY NOTES:
 SURVEY COMPLETED BY CUNNINGHAM McCONNELL LIMITED. (2019/FEB/11)
 PLAN No.: 44-16-1 OLS FILE No.: 44-160TM
 BEARINGS ARE GRID, NAD 83, 6' U.T.M., ZONE 17, CENTRAL MERIDIAN 81° WEST
 LONGITUDE, BEING RELATED TO CONTROL STATIONS 04519910052 & 00819800334
 DISTANCES ARE GROUND AND CAN BE CONVERTED TO GRID BY MULTIPLYING BY THE SCALE FACTOR OF 0.9997217

SITE PLAN NOTES:
 DESIGN ELEMENTS ARE BASED ON SITE PLAN BY BARON NELSON ARCHITECTS INC. (2022/JULY/25)

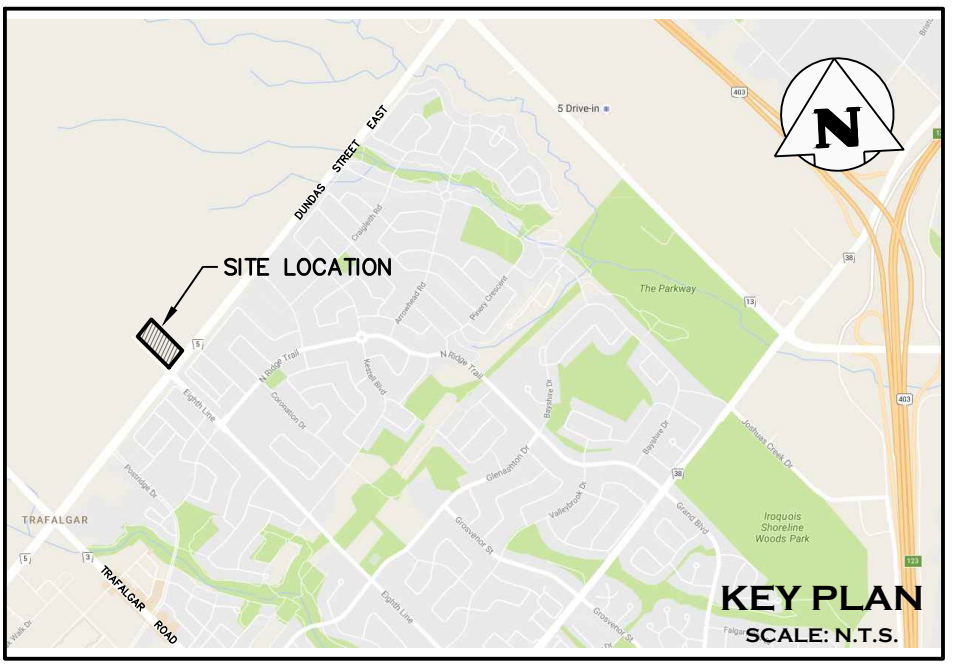
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Project
OAKVILLE URBAN CORE DEVELOPMENT
 1005 DUNDAS ST & 3033 EIGHTH LINE
 TOWN OF OAKVILLE

JELLYFISH DETAIL

Engineer	Engineer	ISSUED FOR SPA (REV.#8) WAS STAMPED, SIGNED, & DATED H.SHAFI (P.Eng) 2022/AUG/12	<p>2800 HIGH POINT DRIVE SUITE 100 MILTON, ON L9T 6P4 905 875-0026 T 905 875-4915 F WWW.CFCROZIER.CA</p>
Drawn	Design	Project No. 1642-5143	
Check	Check	Scale	<p>NTS</p> <p>Dwg. C 108</p>

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LEGEND	
	PROPERTY LINE
	EXISTING CONTOUR (0.5m)
	EXISTING CONTOUR (1.0m)
	EXISTING DITCH
	EXISTING GRADE
	EXISTING OVERLAND FLOW DIRECTION
	EXISTING STORM DRAINAGE CATCHMENT
	CATCHMENT I.D.
	AREA (ha) RUNOFF COEFFICIENT

No.	ISSUE / REVISION	DATE
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9	ISSUED FOR CONDITIONAL PERMIT	2022/AUG/29
8	ISSUED FOR SPA	2022/AUG/12
7	ISSUED FOR PERMIT RESUBMISSION	2022/JUNE/29
No.	ISSUE / REVISION	YYYY/MM/DD

SURVEY NOTES:
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 SCALE FACTOR OF 0.9997217

SITE PLAN NOTES:
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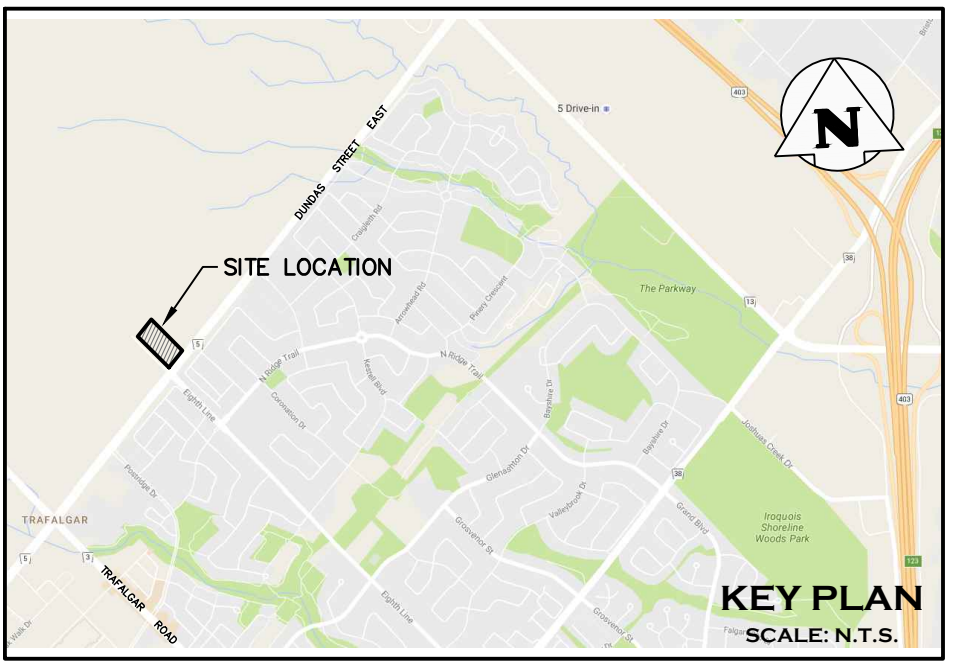
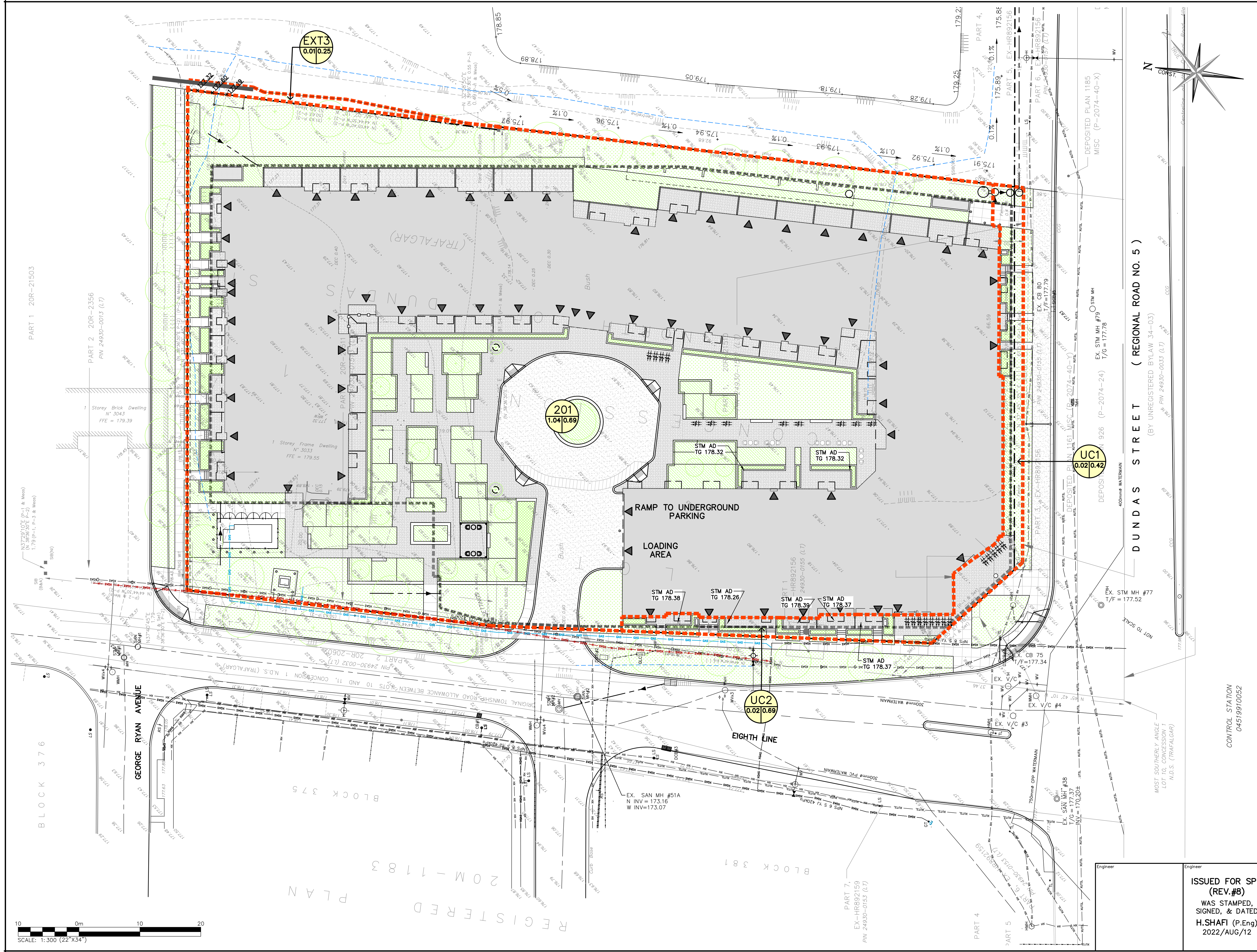
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Project:
 OAKVILLE URBAN CORE DEVELOPMENT
 1005 DUNDAS ST & 3033 EIGHTH LINE
 TOWN OF OAKVILLE

Drawing:
 PRE-DEVELOPMENT
 DRAINAGE PLAN

		2800 HIGH POINT DRIVE SUITE 100 MILTON, ON L9T 6P4 905.875.0026 T 905.875.4915 F WWW.CFCROZIER.CA	
ISSUED FOR SPA (REV.#8) WAS STAMPED, SIGNED, & DATED H.SHAFI (P.Eng) 2022/AUG/12	Engineer J.B. H.S.	Design J.B. A.S.	Project No. 1642-5143 Scale 1:300 Dwg FIG 1

N:\1600\1642-1005 Dundas St Inc\5143-C00.dwg, 2024-02-16 5:01:05 PM, AutoCAD PDF (General Documentation).pc3



LEGEND

- PROPERTY LINE
- - - EXISTING CONTOUR (0.5m)
- - - EXISTING CONTOUR (1.0m)
- - - EXISTING DITCH
- - - EXISTING GRADE
- ×175.00 PROPOSED OVERLAND FLOW DIRECTION
- PROPOSED STORM DRAINAGE CATCHMENT
- ID
- ARC
- CATCHMENT I.D.
- AREA (ha) | RUNOFF COEFFICIENT
- PROPOSED EXTENTS OF U/G PARKING

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Project:
 OAKVILLE URBAN CORE DEVELOPMENT
 1005 DUNDAS ST & 3033 EIGHTH LINE
 TOWN OF OAKVILLE

Drawing:
 POST-DEVELOPMENT
 DRAINAGE PLAN

<p>Engineer: ISSUED FOR SPA (REV.#8) WAS STAMPED, SIGNED, & DATED H.SHAFI (P.Eng) 2022/AUG/12</p>		<p>Engineer:</p>	
<p>Company: 2800 HIGH POINT DRIVE SUITE 100 MILTON, ON L9T 6P4 905 875-0026 T 905 875-4915 F WWW.CFCROZIER.CA</p>		<p>Project No.: 1642-5143 Scale: 1:300 Dwg. No.: FIG 2</p>	
<p>Drawn: J.B. Check: I.C.</p>	<p>Design: J.B. Check: H.S.</p>	<p>Project No.: 1642-5143 Scale: 1:300 Dwg. No.: FIG 2</p>	<p>Project No.: 1642-5143 Scale: 1:300 Dwg. No.: FIG 2</p>

