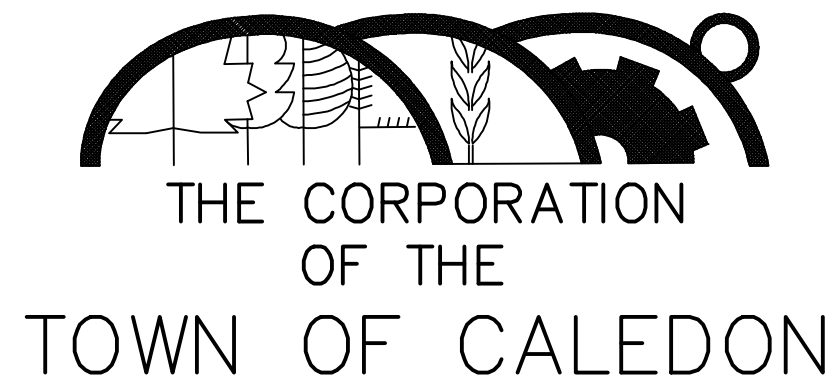
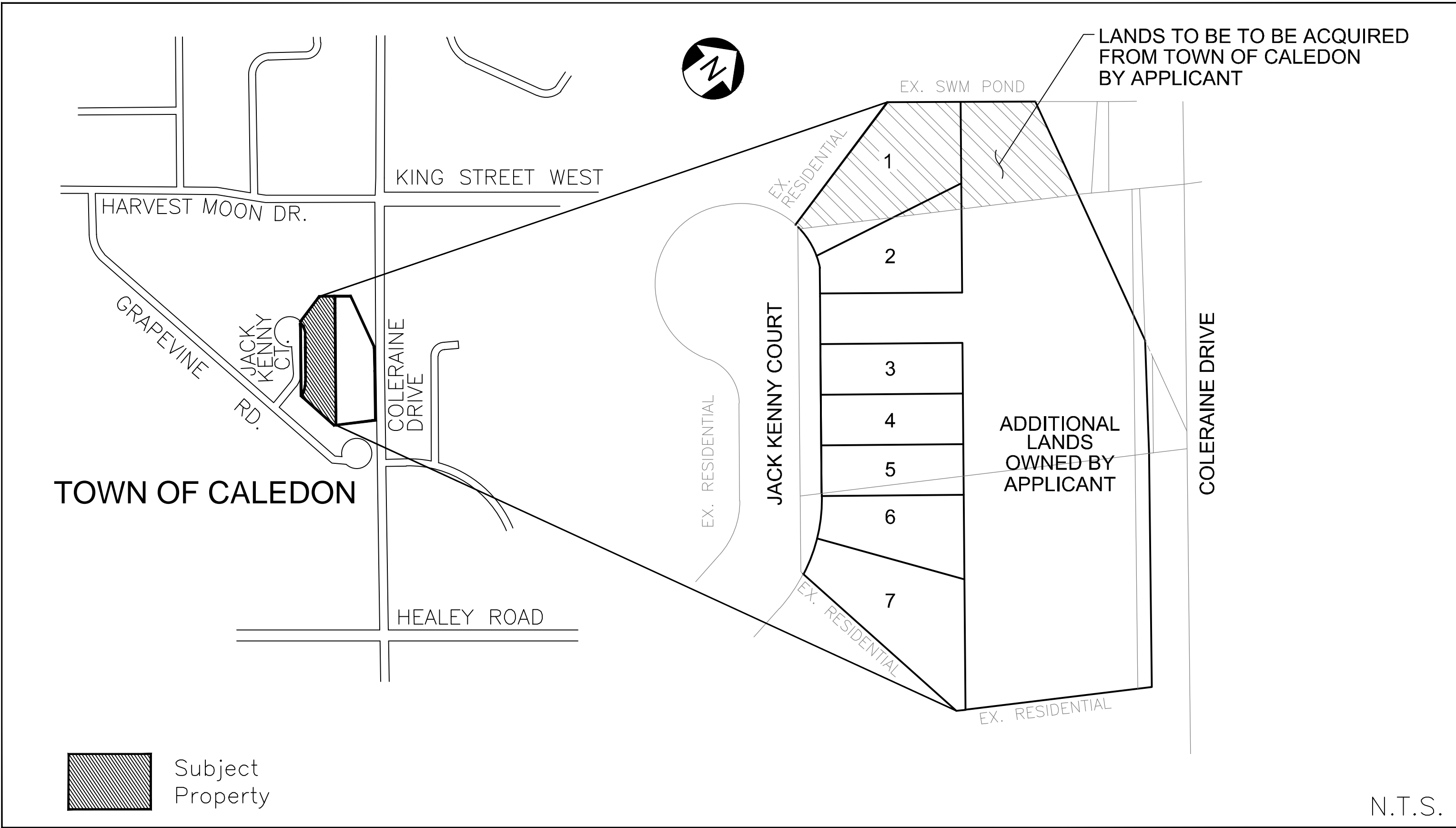


JACK KENNY COURT LOTS 1-7 PRELIMINARY ENGINEERING DRAWINGS
DRAFT PLAN 21T-13002C
PART OF LOT 8, CONCESSION 5 (ALB)
AND
PART OF BLOCK 307 ON 43M-1324 (ALB)
TOWN OF CALEDON, REGIONAL MUNICIPALITY OF PEEL

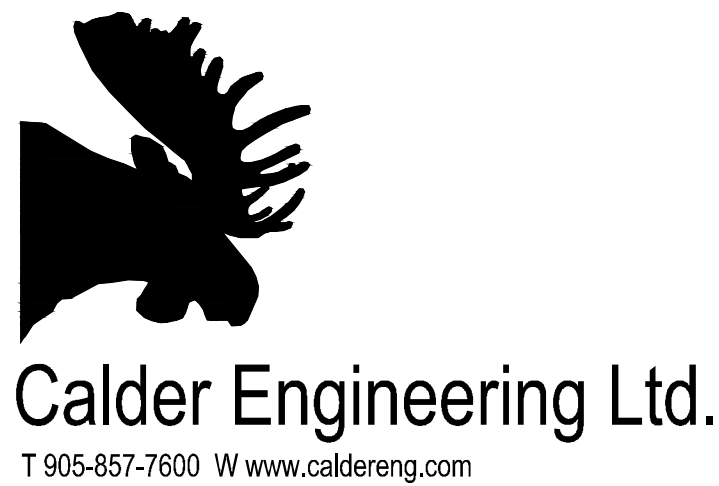
LIST OF DRAWINGS

GENERAL PLAN	09-193-01
GRADING PLAN	09-193-02
EROSION AND SEDIMENT CONTROL PLAN (1/2) STAGES 1-4	09-193-03A
EROSION AND SEDIMENT CONTROL PLAN (2/2) STAGES 5-9	09-193-03B
CROSS-SECTIONS	09-193-04
DETAILS	09-193-05

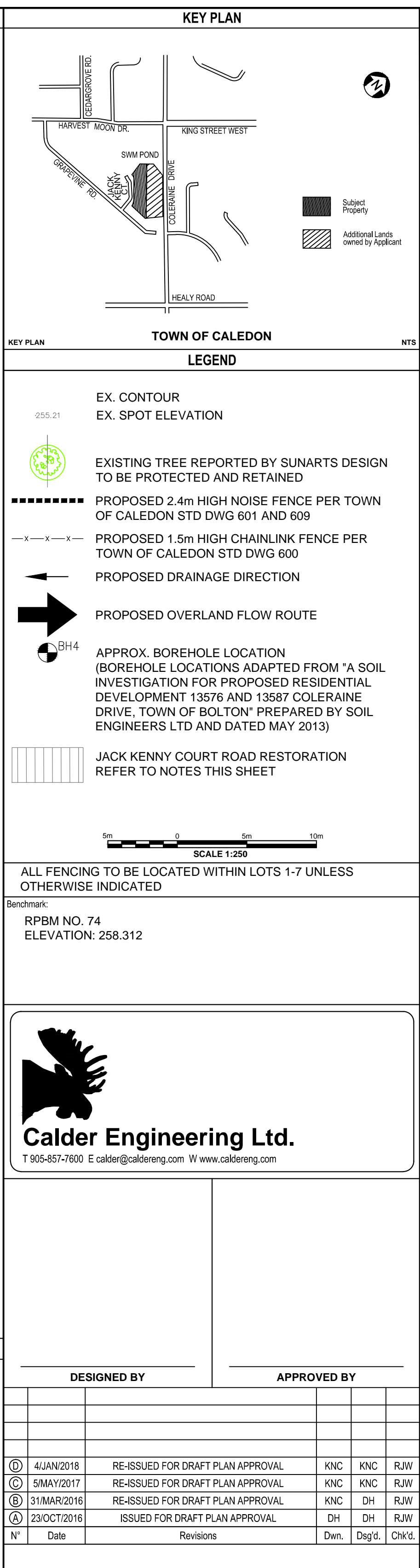
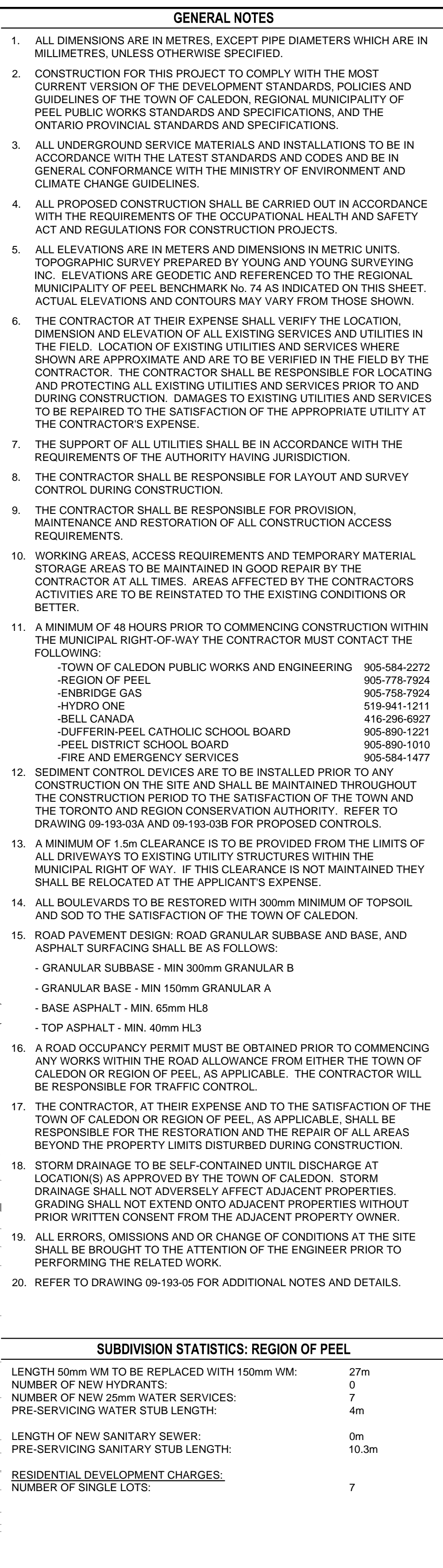



LIST OF TOWN INFRASTRUCTURE

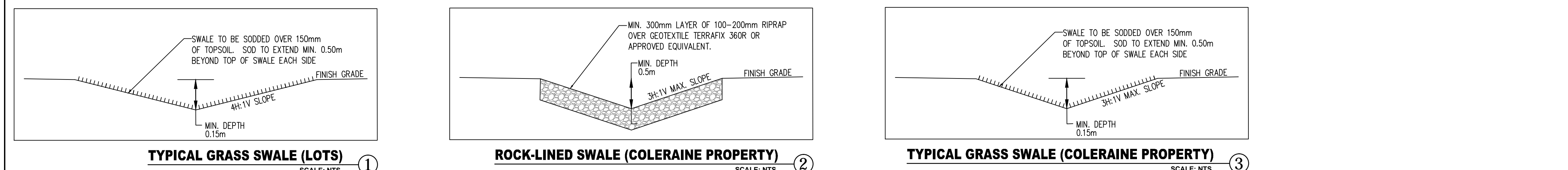
LENGTH OF ROAD (EXISTING TO BE RECONSTRUCTED):	59m
METERS OF STORM SEWER:	0 m
NUMBER OF MANHOLES:	0
NUMBER OF CATCHBASINS:	0
NUMBER OF STREETLIGHTS:	0



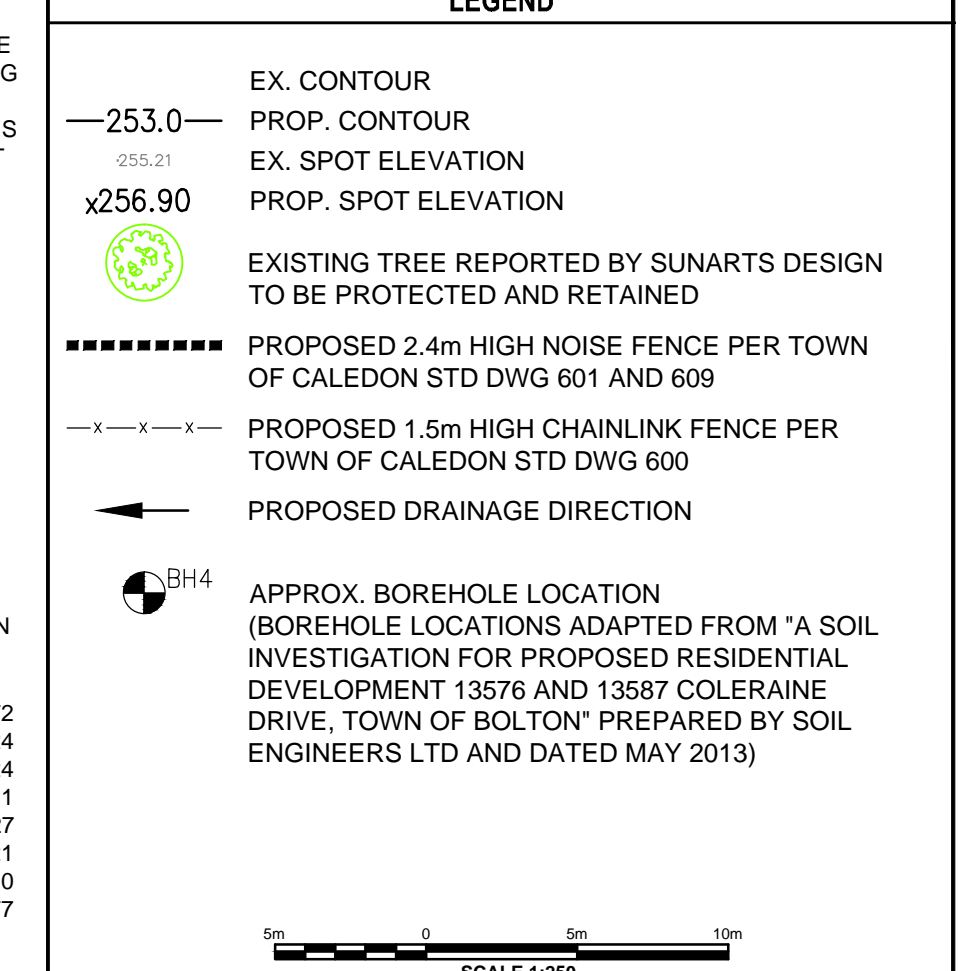
1361605 ONTARIO LIMITED
39 ABBEYWOOD GATE
THORNHILL, ON L4J 8P1



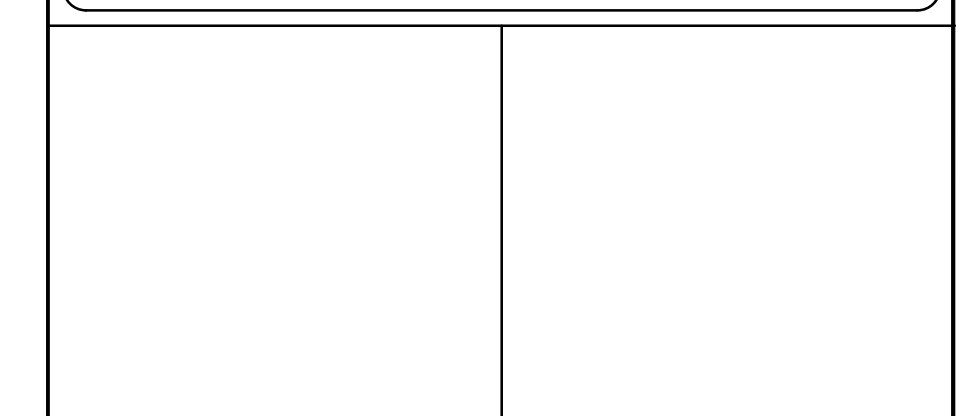
<p align="center">REGION OF PEELE</p>			
<p align="center">  THE CORPORATION OF THE TOWN OF CALEDON </p>			
<p>Client: 1361605 Ontario Limited</p>			
<p>Project Name: PROPOSED RESIDENTIAL DEVELOPMENT LOTS 1 - 7 JACK KENNY COURT</p>			
<p>Title Name: GENERAL PLAN</p>			
<p>Drawing N°:</p> <p align="center">09-193-01</p>	<p>Sheet N°: 1 OF 1</p> <p>Scale: 1:250</p>	<p>Rev. N°:</p>	<p align="center">(D)</p>




- PRELIMINARY**
SUBJECT TO DETAILED DESIGN

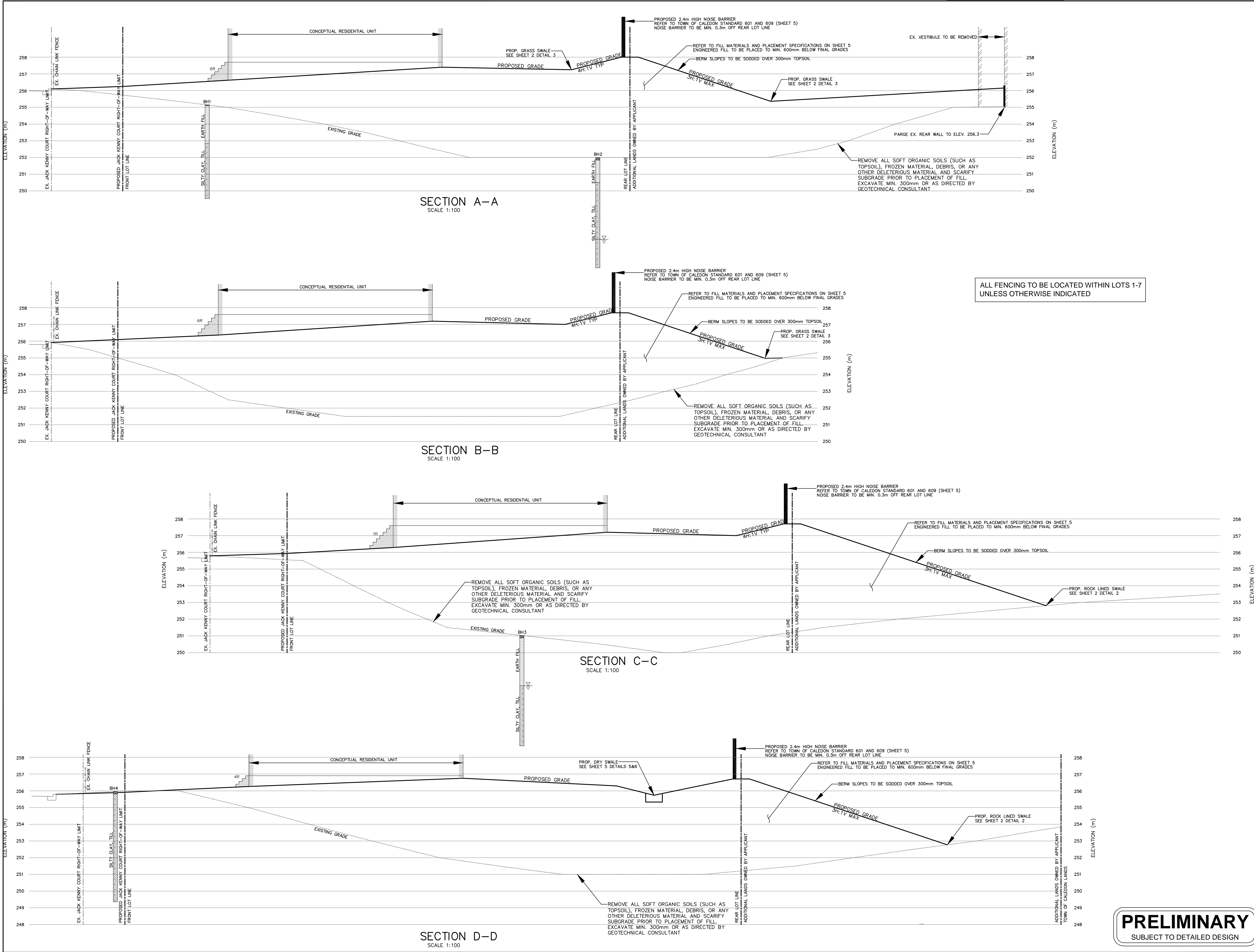


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<h1 style="text-align: center;">REGION OF PEEL</h1>			
 <p style="text-align: center;">THE CORPORATION OF THE</p> <h2 style="text-align: center;">TOWN OF CALEDON</h2>			
<p>Client:</p> <p style="text-align: center;">1361605 Ontario Limited</p>			
<p>Project Name:</p> <p style="text-align: center;">PROPOSED RESIDENTIAL DEVELOPMENT LOTS 1 - 7 JACK KENNY COURT</p>			
<p>Title Name:</p> <p style="text-align: center;">GRADING PLAN</p>			
<p>Drawing N°:</p> <p style="text-align: center;">09-193-02</p>	<p>Sheet N°:</p> <p style="text-align: center;">1 OF 1</p>	<p>Rev. N°:</p> <p style="text-align: center;">(D)</p>	
<p>Scale:</p> <p style="text-align: center;">1" = 100'</p>			

1. INSTALLATION OF TEMPORARY EROSION AND SEDIMENT CONTROLS INCLUDING PERIMETER SILTATION FENCING, MUD MAT AT SITE ENTRANCE AND CRUSHED STONE BERM AT THE CULVERT INTLET. CLEARING AND GRUBBING.
2. TOPSOIL STRIPPING AND STOCKPILING. ENCLOSE STOCKPILES WITH SILTATION FENCING.
3. FILL, IMPORT AND SITE GRADING TO PREPARATION ELEVATIONS.
4. CONSTRUCTION OF UNDERGROUND SERVICES AND INSTALLATION OF CATCHBASIN SEDIMENT CONTROLS (STD. 303 - CATCH BASIN SEDIMENT BARRIER), ADDITIONAL SEDIMENT CURB FENCING AND CRUSHED STONE BERMS AND RESTORATION OF LANDS EAST OF THE DEVELOPMENT LIMITS.
5. BASE COURSE CONSTRUCTION AND PLACEMENT OF BASE COURSE ASPHALT.
6. BUILDER HOME CONSTRUCTION.
7. LAYMENT OF TOP COURSE ASPHALT AND TOP CURB CONSTRUCTION.
8. BOULEVARD CONSTRUCTION AND RESTORATION.



KEY PLAN

TOWN OF CALEDON

BOREHOLE RECORD LEGEND

TOPSOIL
EARTH FILL
SILTY CLAY, TILL
WATER LEVEL UPON COMPLETION
IF NONE INDICATED, BOREHOLE WAS DRY UPON COMPLETION

BOREHOLE RECORDS ADAPTED FROM "A SOIL INVESTIGATION FOR PROPOSED RESIDENTIAL DEVELOPMENT 13576 AND 13584 COLERAINE DRIVE, TOWN OF BOLTON" PREPARED BY SOIL ENGINEERS LTD. AND DATED MAY 2013.

BOREHOLE RECORDS PROJECTED TO THE CLOSEST CROSS-SECTION.

REFER TO SHEET 09-193-01 FOR A DEPICTION OF THE LANDS TO BE ACQUIRED BY THE APPLICANT FROM THE TOWN OF CALEDON.

Benchmark:
RPBM NO. 74
ELEVATION: 258.312

Calder Engineering Ltd.
T 905-857-7600 E calder@caldereng.com W www.caldereng.com

DESIGNED BY

APPROVED BY

N°	Date	Revisions	Dwn.	Dsg'd.	Chk'd.
①	4/JAN/2018	RE-ISSUED FOR DRAFT PLAN APPROVAL	KNC	KNC	RJW
②	5/MAY/2017	RE-ISSUED FOR DRAFT PLAN APPROVAL	KNC	AAF	RJW
③	31/MAR/2016	RE-ISSUED FOR DRAFT PLAN APPROVAL	KNC	DH	RJW
④	23/OCT/2016	ISSUED FOR DRAFT PLAN APPROVAL	DH	DH	RJW

REGION OF PEEL

TOWN OF CALEDON

Client:
1361605 Ontario Limited

Project Name:
**PROPOSED RESIDENTIAL DEVELOPMENT
LOTS 1 - 7 JACK KENNY COURT**

Title Name:
CROSS SECTIONS

Drawing N°:
09-193-04

Sheet N°:
1 OF 1

Scale:
1:100

Rev. N°:
D

PRELIMINARY
SUBJECT TO DETAILED DESIGN

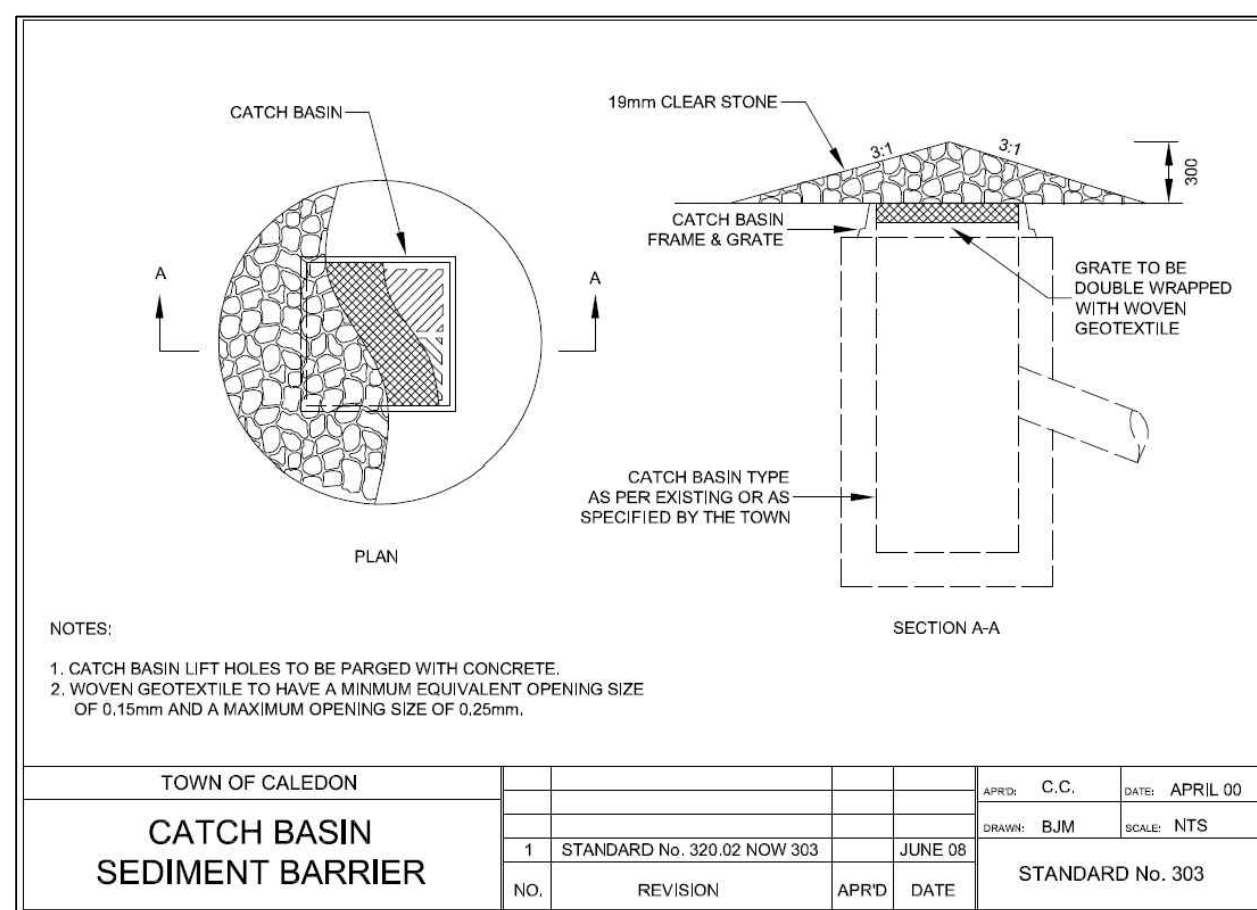
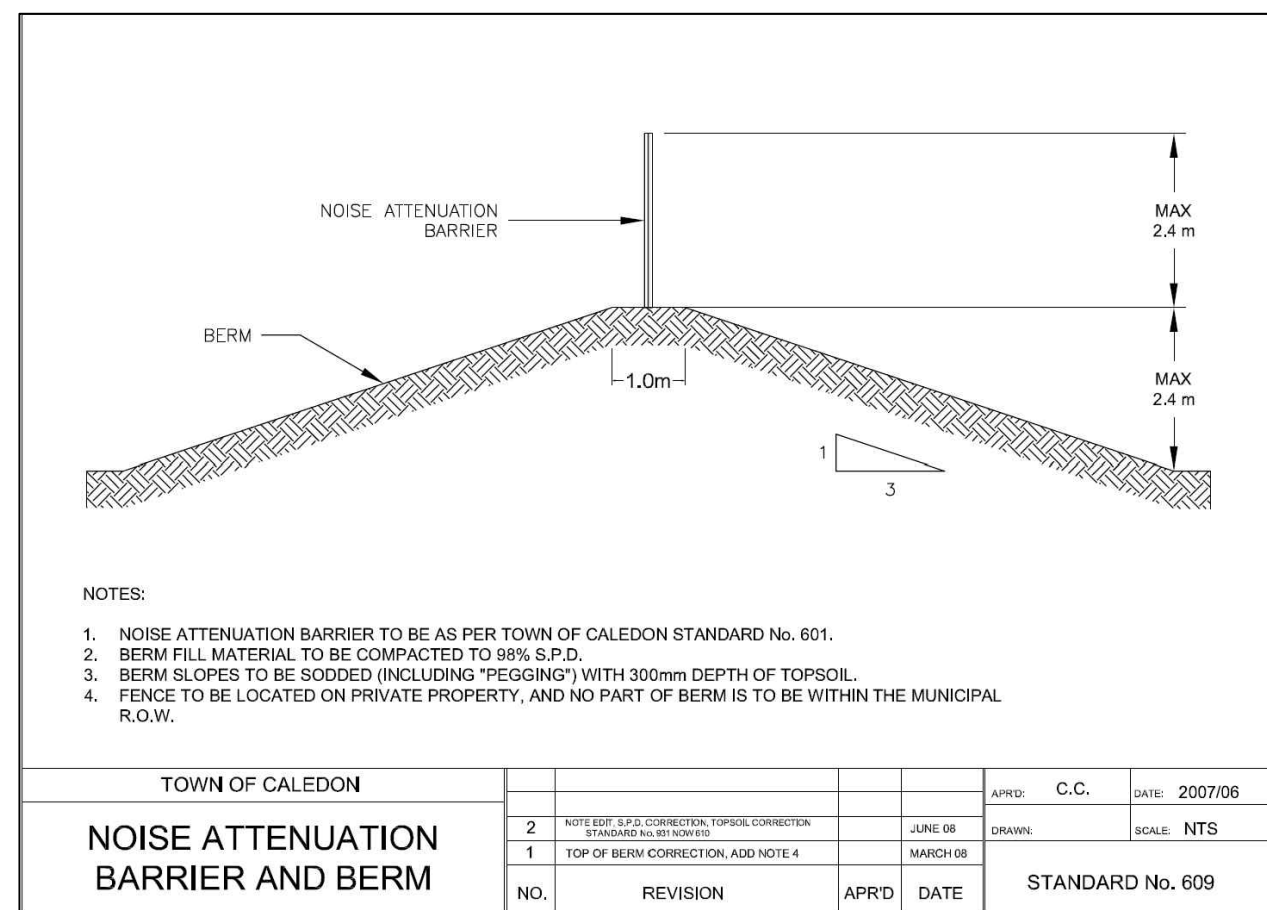
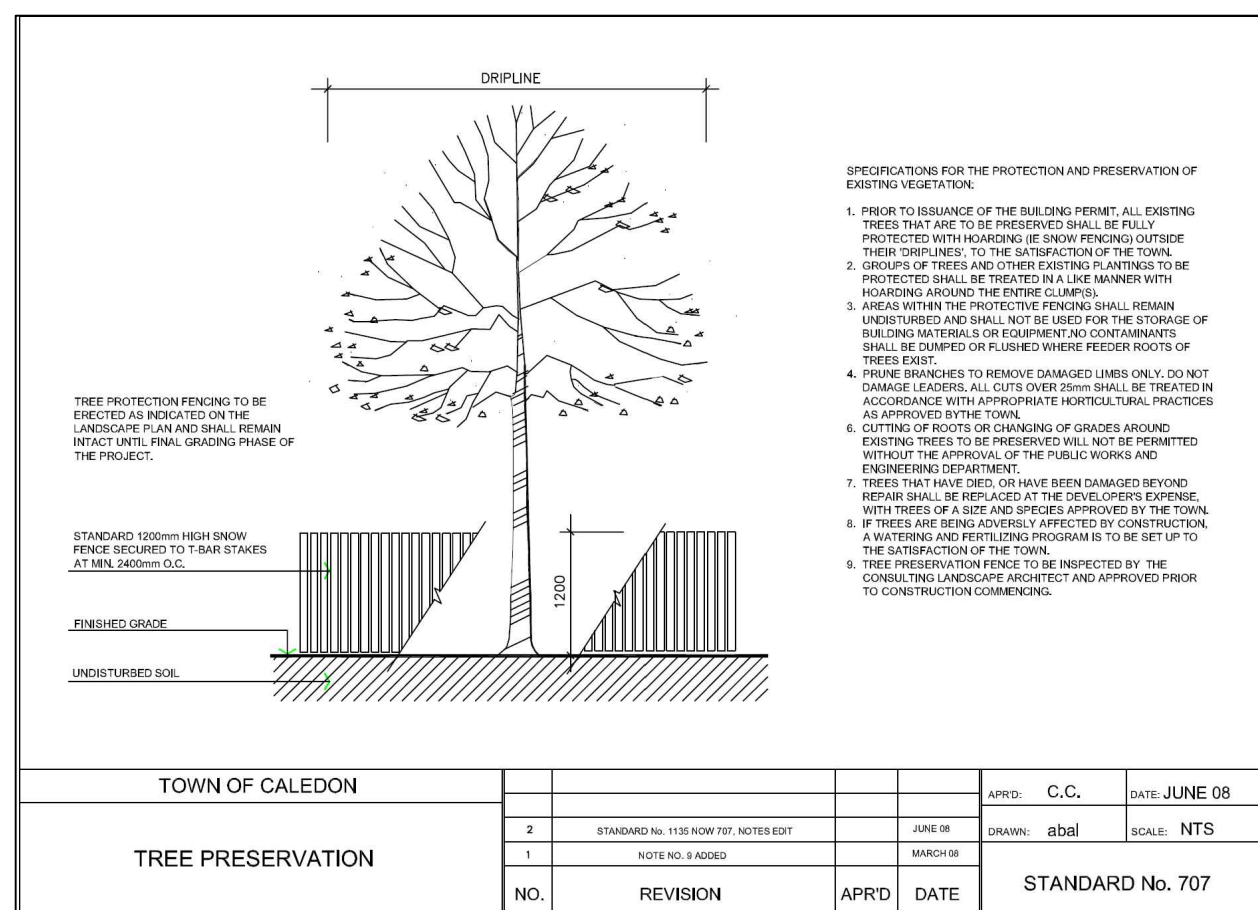
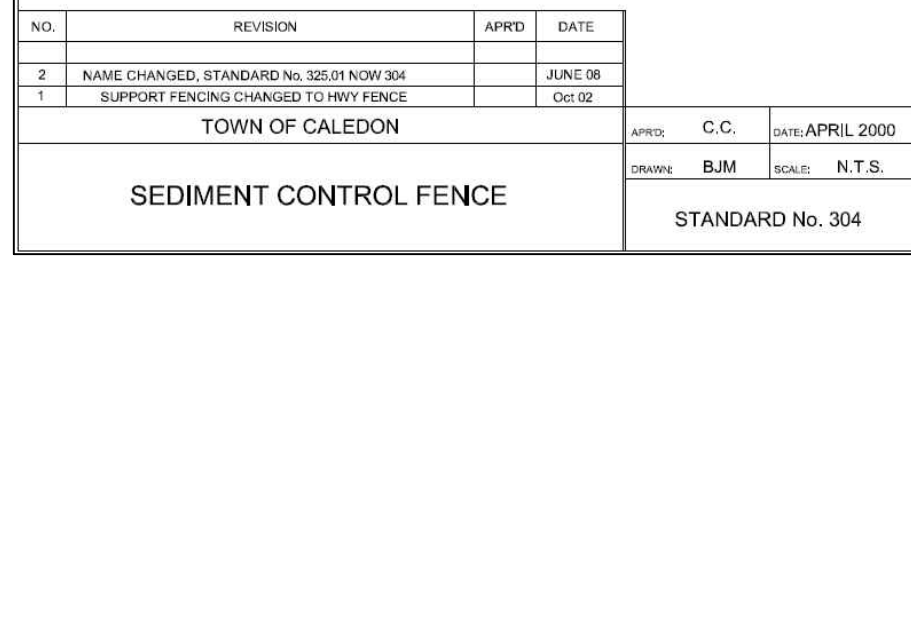
1. NOTES BASED ON THE SOIL INVESTIGATION REPORT PREPARED FOR THIS PROJECT. REPORT IS ENTITLED "A SOIL INVESTIGATION FOR PROPOSED RESIDENTIAL DEVELOPMENT, 13576 AND 13584 COLERAINE DRIVE, TOWN OF BOLTON", PREPARED BY SOIL ENGINEERS LTD. AND DATED MAY 2013. REFERENCE NO. 1006-S045. REFER TO THE AFOREMENTIONED REPORT FOR ADDITIONAL INFORMATION.
2. ALL TOPSOILS, ORGANICS AND EARTH FILL MUST BE REMOVED, AND THE SUBGRADE MUST BE INSPECTED AND PROOF-ROLLED PRIOR TO ANY FILL PLACEMENT. BADLY WEATHERED SOIL MUST BE SUBEXCAVATED, SORTED FREE OF TOPSOIL INCLUSIONS AND DELETERIOUS MATERIALS, IF ANY, AERATED AND PROPERLY COMPACTED.
3. INORGANIC SOILS MUST BE USED, AND THEY MUST BE UNIFORMLY COMPACTED IN LIFTS 20cm THICK TO AT LEAST 90% OF THEIR MAXIMUM STANDARD PROCTOR DRY DENSITY UP TO THE PROPOSED ELEVATION OF THE LOT SUBGRADE. THE SOIL MOISTURE MUST BE PROPERLY CONTROLLED ON THE WET SIDE OF OPTIMUM. IF FOUNDATIONS ARE TO BE BUILT SOON AFTER THE FILL PLACEMENT, THE DENSIFICATION PROCESS FOR THE ENGINEERED FILL MUST BE INCREASED TO 100% OF THE MAXIMUM STANDARD PROCTOR COMPACTION.
4. IF IMPORTED FILL IS TO BE USED, THE HAULER IS RESPONSIBLE FOR ITS ENVIRONMENTAL QUALITY AND MUST PROVIDE A DOCUMENT TO CERTIFY THAT THE MATERIAL IS FREE OF HAZARDOUS CONTAMINANTS.
5. IF THE ENGINEERED FILL IS TO BE LEFT OVER THE WINTER MONTHS, ADEQUATE EARTH COVER OR EQUIVALENT MUST BE PROVIDED FOR PROTECTION AGAINST FROST ACTION.
6. THE ENGINEERED FILL MUST EXTEND OVER THE ENTIRE GRADED AREA, AND THE FILL ENVELOPE MUST BE CLEARLY AND ACCURATELY DEFINED IN THE FIELD AND BE PRECISELY DOCUMENTED BY QUALIFIED SURVEYORS.
7. FOUNDATIONS PARTIALLY ON ENGINEERED FILL MUST BE REINFORCED AND DESIGNED BY A STRUCTURAL ENGINEER TO PROPERLY DISTRIBUTE THE STRESS INDUCED BY THE ABRUPT DIFFERENTIAL SETTLEMENT BETWEEN THE NATURAL SOILS AND ENGINEERED FILL.
8. THE ENGINEERED FILL MUST NOT BE PLACED DURING THE PERIOD FROM LATE NOVEMBER TO EARLY APRIL, WHEN FREEZING AMBIENT TEMPERATURES OCCUR EITHER PERSISTENTLY OR INTERMITTENTLY.
9. WHERE THE GROUND IS WET DUE TO SUBSURFACE WATER SEEPAGE, AN APPROPRIATE SUBDRAIN SYSTEM MUST BE IMPLEMENTED PRIOR TO THE FILL PLACEMENT.
10. WHERE FILL IS TO BE PLACED ON A BANK STEEPER THAN 1V:3H, THE FACE OF THE BANK MUST BE FLATTENED TO 3H SO THAT IT IS SUITABLE FOR SAFE OPERATION OF THE COMPACTOR AND THE REQUIRED COMPACTION CAN BE OBTAINED.
11. THE FILL OPERATION MUST BE INSPECTED ON A FULL-TIME BASIS BY A QUALIFIED TECHNICIAN UNDER THE DIRECTION OF A GEOTECHNICAL ENGINEER.
12. THE FOOTINGS AND UNDERGROUND SERVICES SUBGRADE MUST BE INSPECTED BY THE GEOTECHNICAL CONSULTING FIRM THAT INSPECTED THE ENGINEERED FILL PLACEMENT.
13. ANY EXCAVATION CARRIED OUT IN CERTIFIED ENGINEERED FILL MUST BE REPORTED TO THE GEOTECHNICAL CONSULTANT WHO INSPECTED THE FILL PLACEMENT IN ORDER TO DOCUMENT THE LOCATIONS OF EXCAVATION AND/OR INSPECT REINSTATEMENT OF THE EXCAVATED AREAS TO ENGINEERED FILL STATUS. IF CONSTRUCTION ON THE ENGINEERED FILL DOES NOT COMMENCE WITHIN A PERIOD OF 2 YEARS FROM THE DATE OF CERTIFICATION, THE CONDITION OF THE ENGINEERED FILL MUST BE ASSESSED FOR RE-CERTIFICATION.
14. DESPITE STRINGENT CONTROL IN THE PLACEMENT OF ENGINEERED FILL, VARIATIONS IN SOIL TYPE AND DENSITY MAY OCCUR IN THE ENGINEERED FILL. THEREFORE, THE STRIP FOOTINGS AND THE UPPER SECTION OF THE FOUNDATION WALLS CONSTRUCTED ON ENGINEERED FILL MAY REQUIRE CONTINUOUS REINFORCEMENT WITH STEEL BARS, DEPENDING ON THE UNIFORMITY OF THE SOILS IN THE ENGINEERED FILL AND THE THICKNESS OF THE ENGINEERED FILL UNDERLYING THE FOUNDATIONS. SINCE THE FOUNDATIONS ARE TO BE CONSTRUCTED ON ENGINEERED FILL, THE REQUIRED NUMBER AND SIZE OF REINFORCING BARS MUST BE ASSESSED BY CONSIDERING THE UNIFORMITY AS WELL AS THE THICKNESS OF THE ENGINEERED FILL BENEATH THE FOUNDATIONS. IN SEVER CONSTRUCTION, THE ENGINEERED FILL IS CONSIDERED TO HAVE THE SAME STRUCTURAL PROFICIENCY AS A NATURAL INORGANIC SOIL.
15. IF ENGINEERED FILL EXCEEDS 5.0m IN DEPTH, CONSTRUCTION OF FOUNDATIONS MUST NOT BEGIN UNTIL 1 YEAR AFTER COMPLETION OF THE ENGINEERED FILL PLACEMENT.
16. NATIVE TOPSOIL AND TOPSOIL FILL NOT TO BE BURIED WITHIN BUILDING ENVELOPE OR DEEPER THAN 1.2m BELOW THE EXTERIOR FINISHED GRADE.
17. EARTH FILL FOUND AT THE SITE EXTENDS TO DEPTHS OF 1.5m, 2.3m AND 3.0m BELOW THE PREVAILING GROUND SURFACE, AND APPEARS TO BE SPOIL FROM VICINAL CONSTRUCTION. THE DENSITY OF THE FILL IS NON-UNIFORM AND CONSISTS OF TOPSOIL INCLUSIONS AND OTHER DELETERIOUS MATERIAL, RENDERING THE FILL UNSUITABLE FOR SUPPORTING FOUNDATIONS. FOR OTHER STRUCTURAL USE, THE FILL MUST BE SUBEXCAVATED, INSPECTED, ASSESSED, SORTED FREE OF TOPSOIL INCLUSIONS AND OTHER DELETERIOUS MATERIALS, AERATED AND PROPERLY COMPACTED. IF IT IS IMPRACTICAL TO SORT THE TOPSOIL AND OTHER DELETERIOUS MATERIALS FROM THE FILL, THEN THE FILL MUST BE WASTED AND REPLACED WITH PROPERLY COMPACTED INORGANIC FILL.
18. DUE TO THE PRESENCE OF TOPSOIL, TOPSOIL FILL, EARTH FILL AND WEATHERED SOIL, THE FOOTING SUBGRADE MUST BE INSPECTED BY A GEOTECHNICAL ENGINEER OR A GEOTECHNICAL TECHNICIAN UNDER THE SUPERVISION OF A GEOTECHNICAL ENGINEER OR BY A BUILDING INSPECTOR WHO HAS GEOTECHNICAL EXPERIENCE, TO ASSESS ITS SUITABILITY FOR BEARING THE DESIGNED FOUNDATIONS.

1. PLACEMENT AND COMPACTION OF FILL MATERIALS SHALL COMMENCE IN THE LOWEST AREAS OF WORK. NO FILL SHALL BE PLACED UNTIL THE OWNER'S REPRESENTATIVE HAS APPROVED THE FOUNDATION PREPARATION.
2. PLACEMENT AND COMPACTION OF THE FILL SHALL BE DONE IN HORIZONTAL LIFTS. LOOSE LIFT THICKNESS SHALL NOT EXCEED 200mm. THE FILL SURFACE SHALL BE SLOPE TO PROVIDE DRAINAGE DURING CONSTRUCTION.
3. FILL PLACEMENT WITHIN 3m OF CONCRETE STRUCTURES, PIPES OR OTHER OBSTACLES SHALL BE KEPT ONE LIFT HIGHER THAN THE SURROUNDING AREA. IT SHALL BE COMPACTED WITH EQUIPMENT WHICH IS SUITABLE FOR WORKING IN A CONFINED SPACE (AND, IF NECESSARY, PLACED BY HAND USING LIFT THICKNESSES OF ONE HALF THE NORMAL THICKNESS).
4. CARE SHOULD BE TAKEN TO ENSURE THAT SEGREGATION OF FILL MATERIAL DOES NOT OCCUR. MATERIAL THAT HAS SEGREGATED DURING TRANSPORTATION OR PLACING SHOULD BE MIXED PRIOR TO PLACEMENT.
5. THE FILL SHALL BE FREE FROM LENSES, POCKETS OR LAYERS OF MATERIAL WHICH ARE SIGNIFICANTLY DIFFERENT IN GRADATION FROM SURROUNDING MATERIAL OF THE SAME ZONE.
6. FILL MATERIAL SHALL NOT BE EXPOSED TO FROST AND FROZEN MATERIAL SHALL BE REMOVED.
7. MAXIMUM DIFFERENCE IN ELEVATION BETWEEN ADJACENT COMPACTED SURFACES SHALL BE ONE LIFT THICKNESS.
8. ANY DAMAGE TO PLACED FILL DUE TO CONSTRUCTION TRAFFIC SHALL BE REPAIRED PRIOR TO PLACEMENT OF THE NEXT LIFT. THIS MAY INCLUDE, BUT SHALL NOT BE LIMITED TO, THE REMOVAL OF RUTS, REMOVAL OF CONTAMINATED FILL MATERIAL, AND REPAIRS TO FILL BOUNDARIES.

STD. NO. 219	TYPICAL 100mm SUBDRAIN DETAIL
STD. NO. 301	LOT DRAINAGE AND GRADING
STD. NO. 303	CATCH BASIN SEDIMENT BARRIER
STD. NO. 304	SEDIMENT CONTROL FENCING
STD. NO. 402	DRIVEWAY ENTRANCE DETAIL
STD. NO. 501	STORM SEWER SERVICE CONNECTION FOR RIGID PIPE
STD. NO. 502	SERVICE CONNECTION IN COMMON TRENCH
STD. NO. 503	BEEHIVE CATCH BASIN, CAST IRON FRAME AND FLAT SQUARE GRATE
STD. NO. 600	CHAIN LINK FENCE
STD. NO. 601	ACOUSTIC FENCE
STD. NO. 609	NOISE ATTENUATION BARRIER AND BERM
STD. NO. 707	TREE PRESERVATION

STD. NO. 1-5-1	WATERMAIN BEDDING
STD. NO. 1-7-1	WATERMAIN SERVICE CONNECTIONS
STD. NO. 2-4-2	SERVICE CONNECTIONS FOR FLEXIBLE PIPE
STD. NO. 2-4-3	DOUBLE SERVICE CONNECTIONS IN COMMON TRENCH

OPSD 206.050	SUBDRAIN PIPE, CONNECTION AND OUTLET, RURAL
OPSD 219.210	ROCK CHECK DAM
OPSD 600.610	CONCRETE BARRIER CURB WITH STANDARD GUTTER
OPSD 701.010	PRECAST CONCRETE MAINTENANCE HOLE, 1200mm DIAM
OPSD 701.012	PRECAST CONCRETE MAINTENANCE HOLE, 1800mm DIAM
OPSD 705.010	PRECAST CONCRETE CATCH BASIN, 600 x 600mm
OPSD 705.030	PRECAST CONCRETE DITCH INLET, 600mm x 600mm
OPSD 708.030	CATCH BASIN CONNECTION FOR RIGID MAIN PIPE SEWER



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DESIGNED BY			APPROVED BY		
①	4/JAN/2018	RE-ISSUED FOR DRAFT PLAN APPROVAL	KNC	KNC	
②	5/MAY/2017	RE-ISSUED FOR DRAFT PLAN APPROVAL	KNC	KNC	
③	31/MAR/2016	RE-ISSUED FOR DRAFT PLAN APPROVAL	KNC	DH	
④	23/OCT/2016	ISSUED FOR DRAFT PLAN APPROVAL	DH	DH	
N°	Date	Revisions	Dwn.	Dgd'.	

THE CORPORATION

1361605 Ontario Limited

DETAILS

Drawing N°: 09-193-05	Sheet N°: 1 OF 1	Rev. N°: ()
	Scale: 1:100	