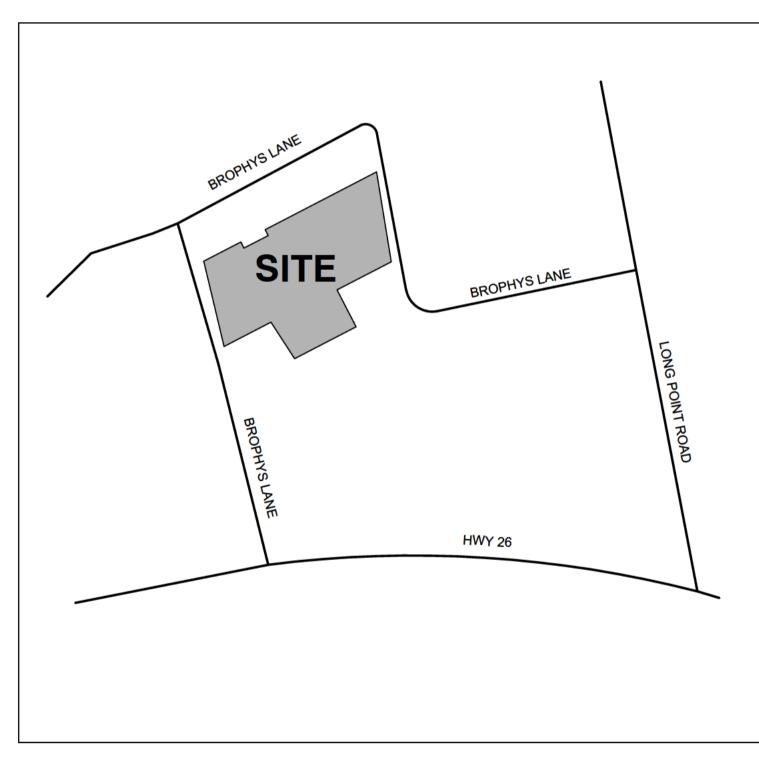
# L&W PROPERTIES LTD.

# PROPOSED DETACHED RESIDENTIAL SUBDIVISION

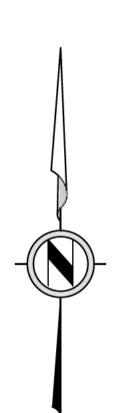
# P2452E



**DEVELOPMENT ENGINEERING** 



**SITE LOCATION** 



MUNICIPALITY:

TOWN OF THE BLUE MOUNTAINS

32 MILL STREET THE BLUE MOUNTAINS, ON NOH 2PO

T: (519)-599-3131

### **DRAWING INDEX**

20-7031-C01 COVER SHEET

20-7031-C02 SITE GRADING PLAN

20-7031-C03 SITE SERVICING PLAN - NORTH

20-7031-C04 SITE SERVICING PLAN - SOUTH

20-7031-C05 STORM DRAINAGE AREA PLAN - PRE

20-7031-C06 STORM DRAINAGE AREA PLAN - POST

20-7031-C07 SANITARY DRAINAGE AREA PLAN

20-7031-C09 EROSION & SEDIMENT CONTROL DETAILS

20-7031-C10 PLAN & PROFILE BROPHYS LANE (0+000 - 0+180)

20-7031-C11 PLAN & PROFILE BROPHYS LANE (0+180 - 0+360)

20-7031-C12 PLAN & PROFILE LANE A (0+000-0+300)

20-7031-C13 STANDARD NOTES

20-7031-C14 STANDARD DETAILS

20-7031-C15 STANDARD DETAILS

20-7031-C16 RETAINING WALL DETAILS

20-7031-C17 COMPOSITE UTILITY PLAN

20-7031-C18 COMPOSITE UTILITY PLAN

# DEVELOPER ADDRESS:

246 RIVERSIDE DRIVE, TORONTO, ON M6S 4A9

# PROJECT LOCATION:

139 BROPHYS LANE, BLUE MOUNTAIN, ON

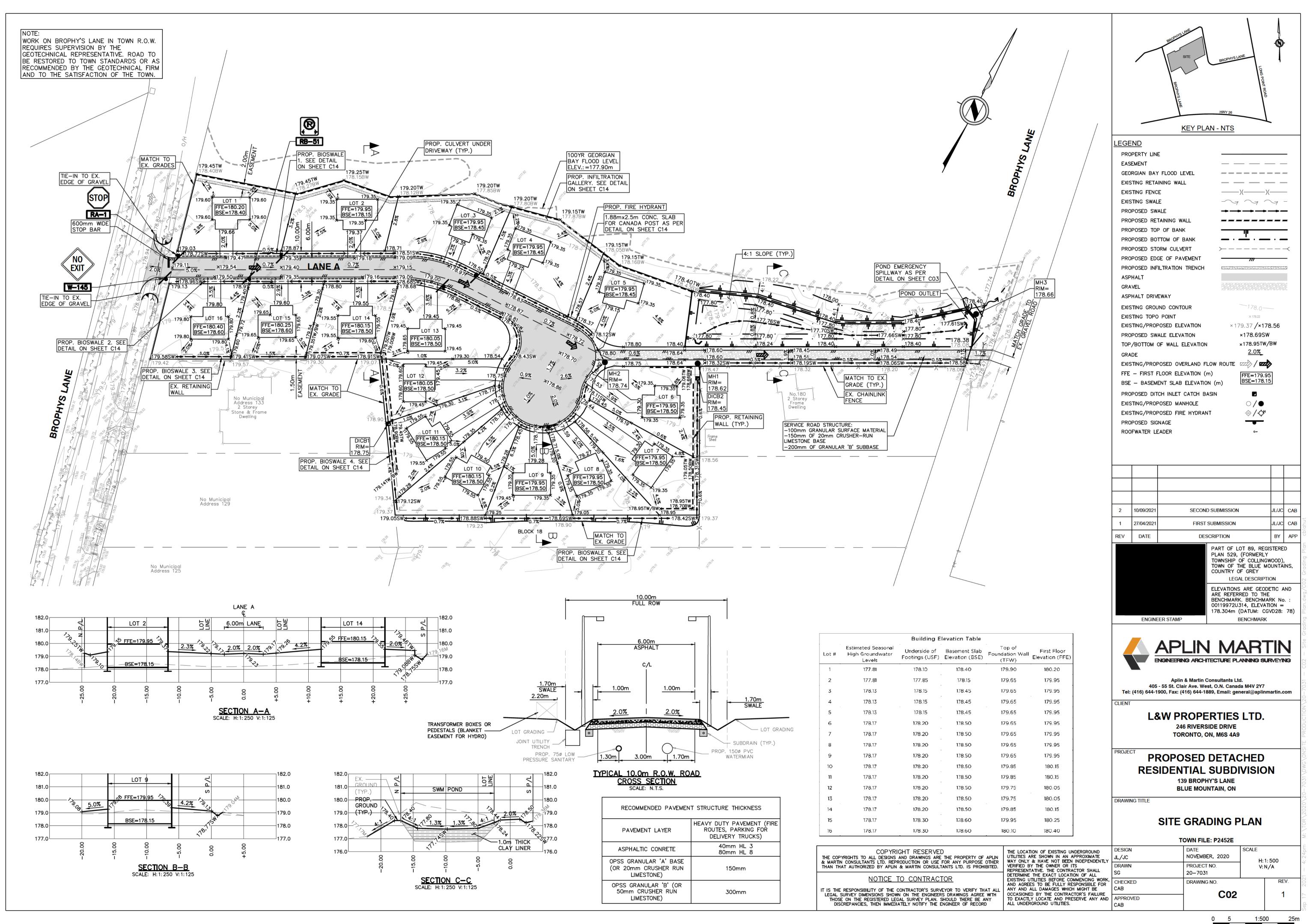
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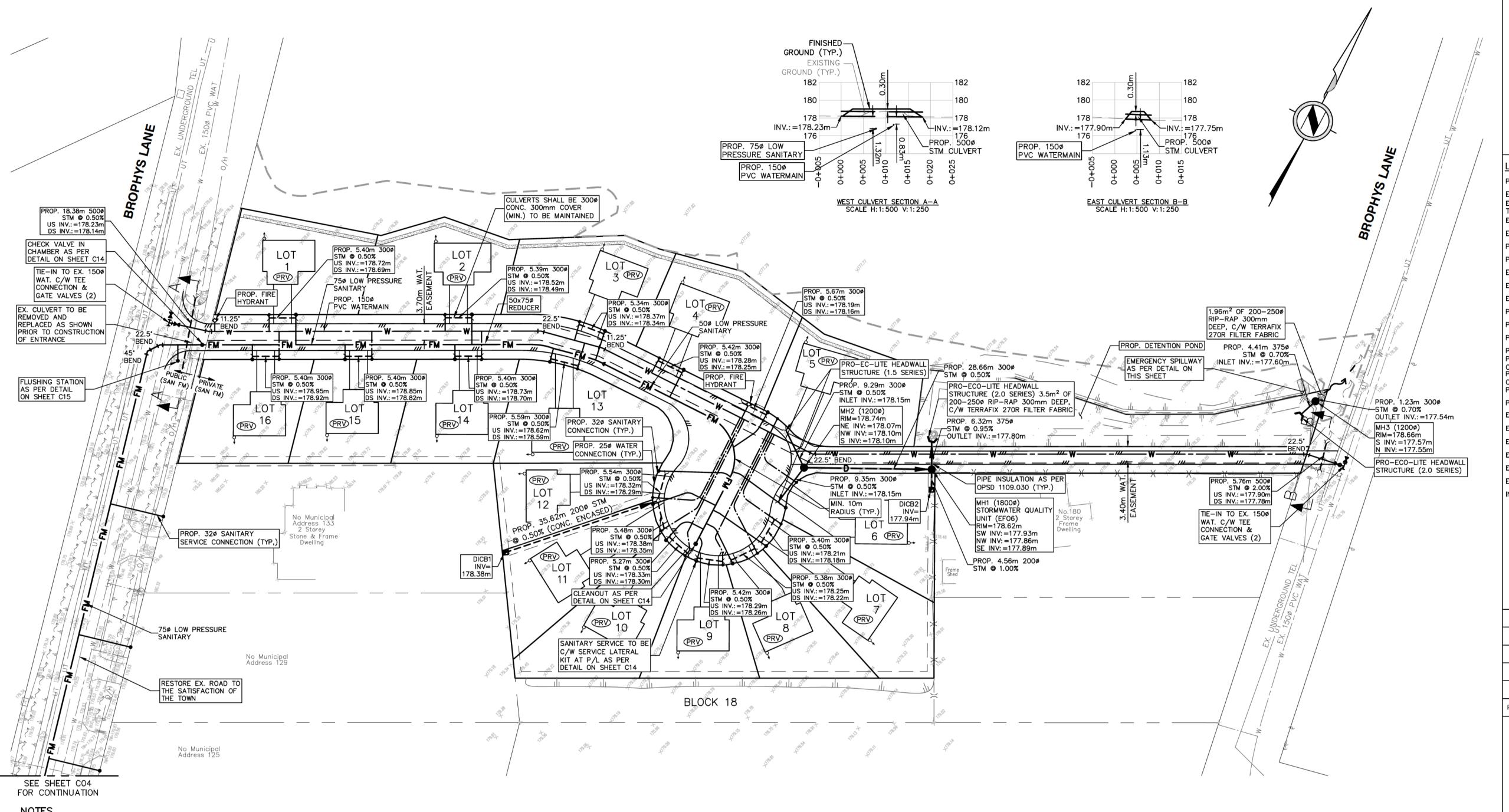
PLAN OF LOT 89, REGISTERED PLAN 529, (FORMERLY TOWNSHIP OF COLLINGWOOD), TOWN OF THE BLUE MOUNTAINS, COUNTRY OF GREY

OWNER'S ENGINEER:

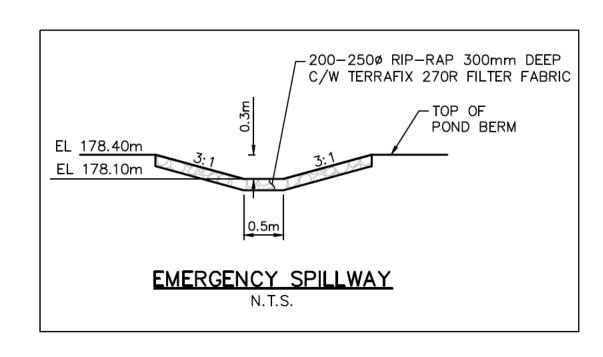


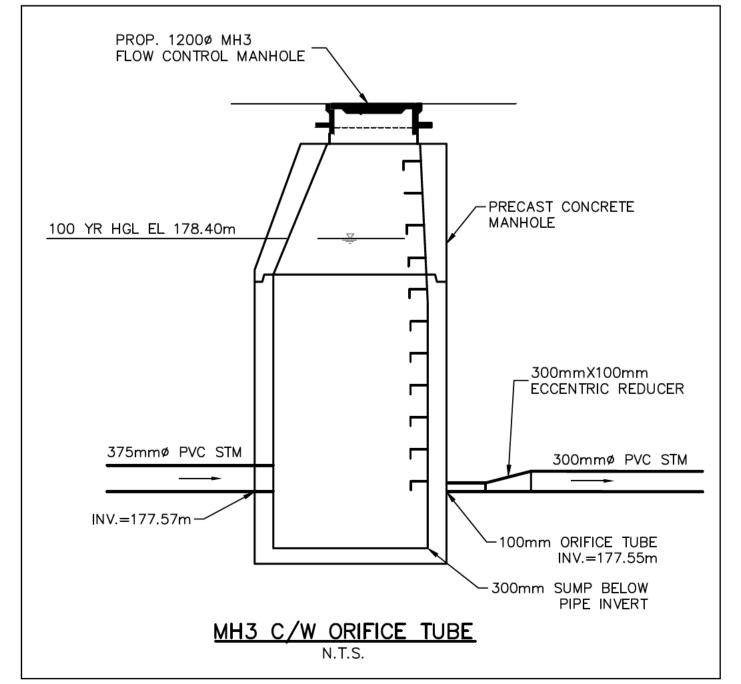
Aplin & Martin Consultants Ltd. 405 - 55 St. Clair Ave. West, O.N. Canada M4V 2Y7 Tel: (416) 644-1900, Fax: (416) 644-1889, Email: general@aplinmartin.com





- 1. ALL RESIDENTIAL DWELLINGS TO COME COMPLETE WITH INDIVIDUAL INTERNAL WATER METERS WITHIN THE UNITS.
- 2. ALL RESIDENTIAL SUMP PUMPS TO BE DISCHARGED AT GRADE DIRECTED TOWARDS RIGHT-OF-WAY.
- 3. ALL RESIDENTIAL DWELLINGS TO COME COMPLETE WITH INTERNAL GRINDER PUMPS AND DISCHARGED TO THE 32¢ LOW-PRESSURE SANITARY SERVICE LATERAL. REFER TO PUMP STATION SPECIFICATIONS ON THIS SHEET.
- 4. ONE-WAY EMERGENCY & RESIDENTIAL ACCESS TO BE MAINTAINED DURING CONSTRUCTION OF WORKS ON BROPHY'S.
- 5. EXTERNAL WORKS ON BROPHY'S LANE REQUIRES A MUNICIPAL AND OCCUPANCY PERMIT FROM THE TOWN.
- 6. RESIDENTIAL CURB CAPS, ISOLATION VALVES AND FLUSHING CONNECTION VALVE BOX CAPS TO BE DENOTED "SEWER".
- 7. FORCEMAIN TESTING AS PER OPSS 412 IS TO BE THE TOWN'S SATISFACTION (PLAN TO BE SUBMITTED WELL IN
- 8. CONNECTIONS TO MAINTENANCE HOLES MUST BE WATERTIGHT WITH MECHANICAL CONNECTOR.
- 9. TRACER WIRE TO BE INSTALLED ON LOW PRESSURE FORCEMAIN.





#### WATERMAIN JOINT RESTRAINT CALCULATION DATA

CONTRACTOR SHALL INSTALL APPROVED JOINT RESTRAINTS ON ALL W/M JOINTS FOR THE IDENTIFIED LENGTH ON BOTH SIDES OF FITTING

PIPE MATERIAL: PVC SOILTYPE: SM (SANDY SILT) FACTOR OF SAFETY: 2.0

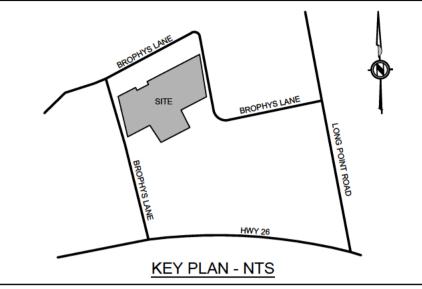
TRENCH TYPE: 5 (PIPE COMPLETELY EMBEDDED IN BEDDING MATERIA TEST PRESSURE: 200 PSI

JOINT RESTRAINT LENGTHS					
FITTING TYPE	DEPTH (m)	MAINLINE DIA. (mm)	MAINLINE RESTRAINED LENGTH (m)	BRANCH RESTRAINED LENGTH (m)	
11.25	1.7	150	1.0	-	
22.5	1.7	150	1.5	-	
TEE	1.7	150	2.0	4.0	

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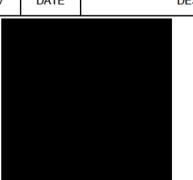
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	THE LOCATION OF EXISTING UNDERGROUND	D
,	UTILITIES ARE SHOWN IN AN APPROXIMATE WAY ONLY & HAVE NOT BEEN INDEPENDENTLY	J
	VERIFIED BY THE OWNER OR ITS	DI
	REPRESENTATIVE. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF ALL	S
L	EXISTING UTILITIES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



LEGEND	
PROPERTY LINE	
EXISTING WATERMAIN EXISTING UNDERGROUND TELECOMMUNICATION EXISTING OVERHEAD HYDRO	W
EXISTING EDGE OF GRAVEL	
PROPOSED TOP OF BANK	
PROPOSED BOTTOM OF BANK	
EXISTING TOP OF BANK	
EXISTING DITCH CENTERLINE	~ ~ ~ ~ ~ ~ ~ ~ ~
EXISTING RETAINING WALL	
PROPOSED LOW PRESSURE SANITARY	FM
PROPOSED STORM SEWER	—D———
PROPOSED WATERMAIN	— W—————
PROPOSED STORM CULVERT PROPOSED SANITARY SERVICE C/W VALVE BOX PROPOSED WATER SERVICE C/W CURB STOP PROPOSED EDGE OF PAVEMENT	
PROPOSED INFILTRATION TRENCH	
EXISTING/PROPOSED FIRE HYDRANT	·
EXISTING WATER VALVE	$\bowtie$
EXISTING/PROPOSED MANHOLE	○/●
EXISTING BELL PEDESTAL	
EXISTING HYDRO POLE	0
EXISTING GUY WRE	$\rightarrow$
INTERNAL PRESSURE REDUCING VALVE	PRV

2	10/09/2021	SECOND SUBMISSION	JL/JC	CAB
1	27/04/2021	FIRST SUBMISSION	JL/JC	CAB
REV	DATE	DESCRIPTION	BY	APP



ENGINEER STAMP

PART OF LOT 89, REGISTERED PLAN 529, (FORMERLY TOWNSHIP OF COLLINGWOOD), TOWN OF THE BLUE MOUNTAINS, COUNTRY OF GREY LEGAL DESCRIPTION

ELEVATIONS ARE GEODETIC AND ARE REFERRED TO THE BENCHMARK, BENCHMARK No. : 00119972U314, ELEVATION = 178.304m (DATUM: CGVD28: 78) BENCHMARK

ENGINEERING ARCHITECTURE PLANNING SURVEYING Aplin & Martin Consultants Ltd.

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# L&W PROPERTIES LTD.

246 RIVERSIDE DRIVE TORONTO, ON, M6S 4A9

# PROPOSED DETACHED RESIDENTIAL SUBDIVISION

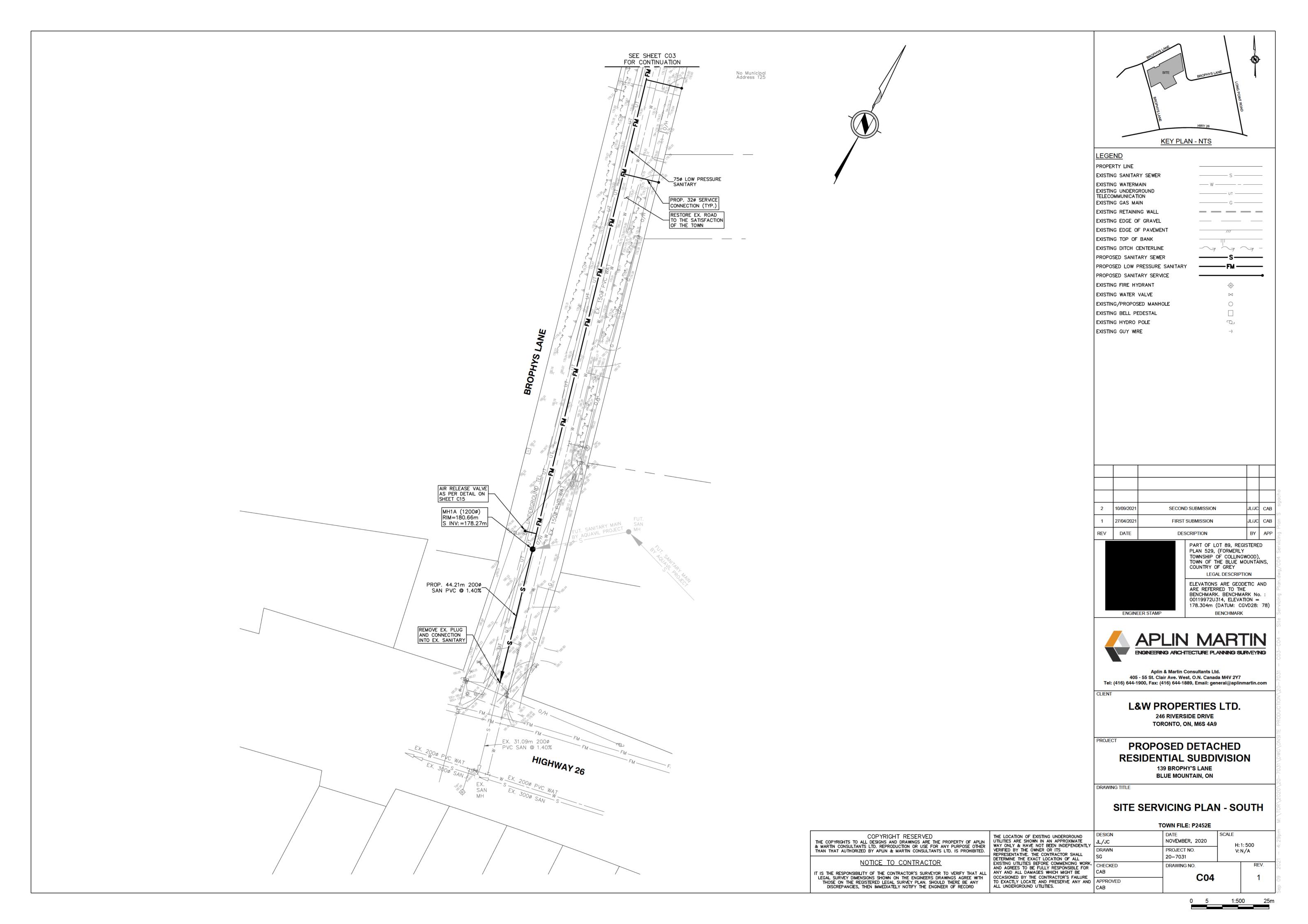
139 BROPHY'S LANE **BLUE MOUNTAIN, ON** 

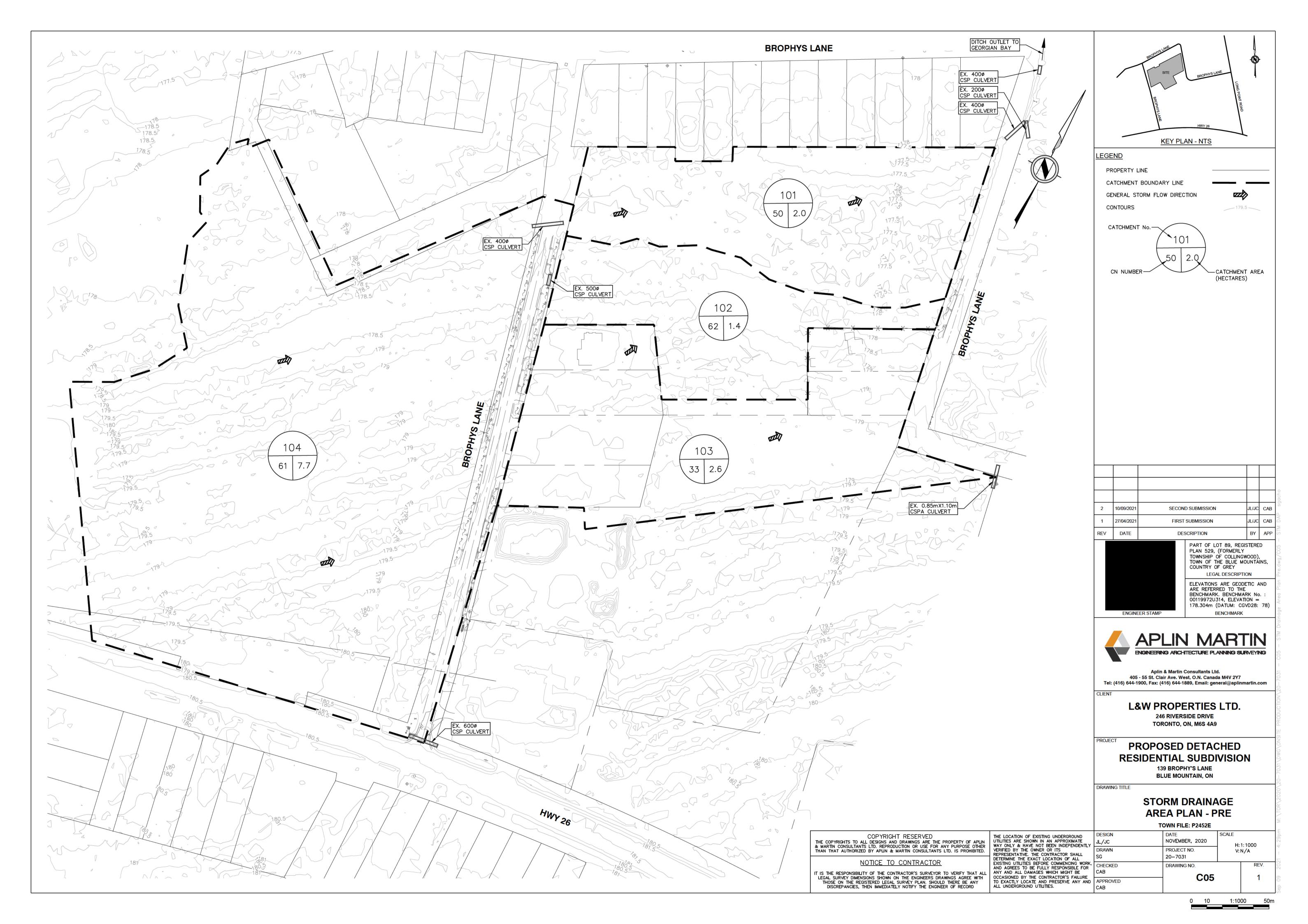
DRAWING TITLE

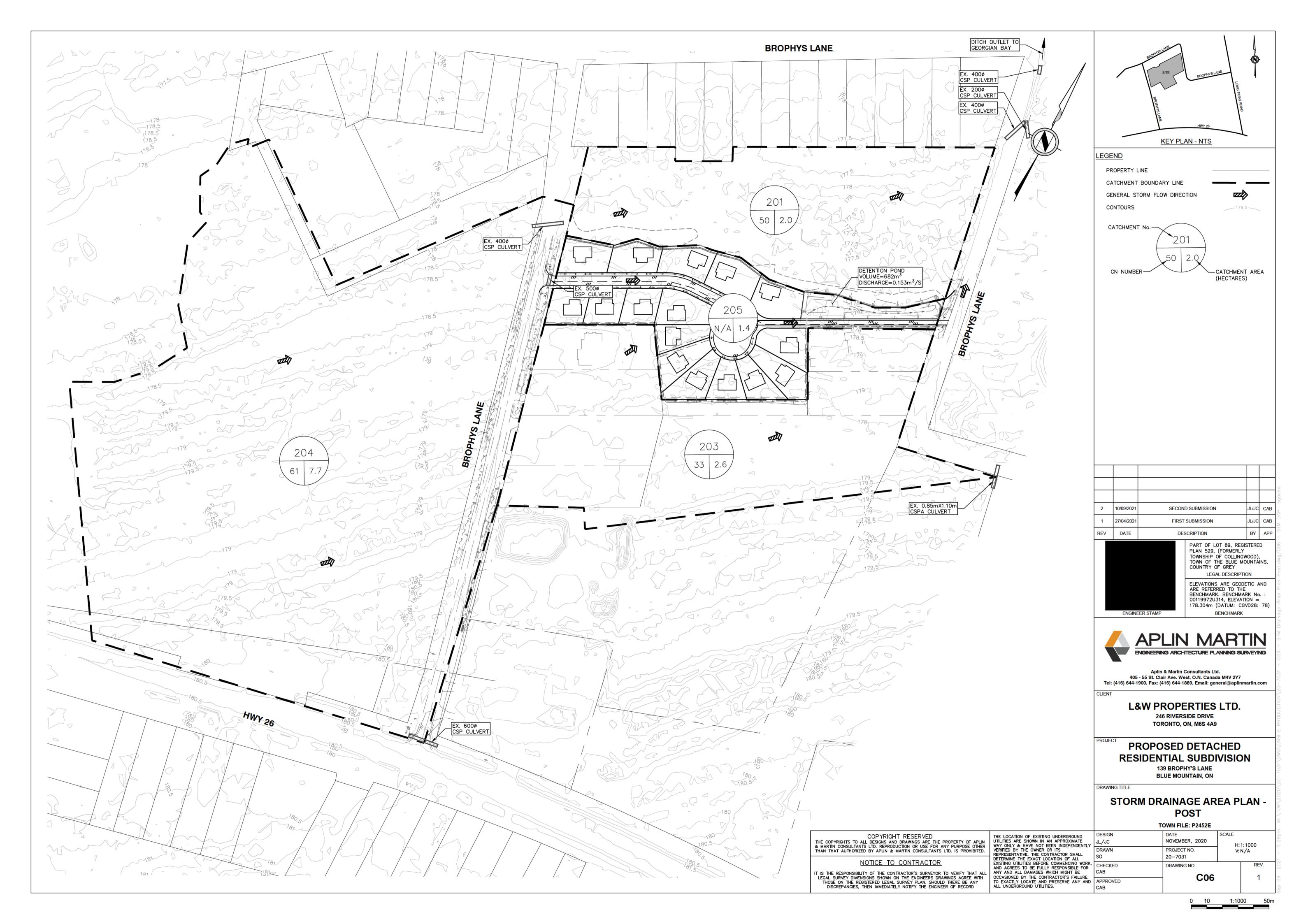
#### SITE SERVICING PLAN - NORTH

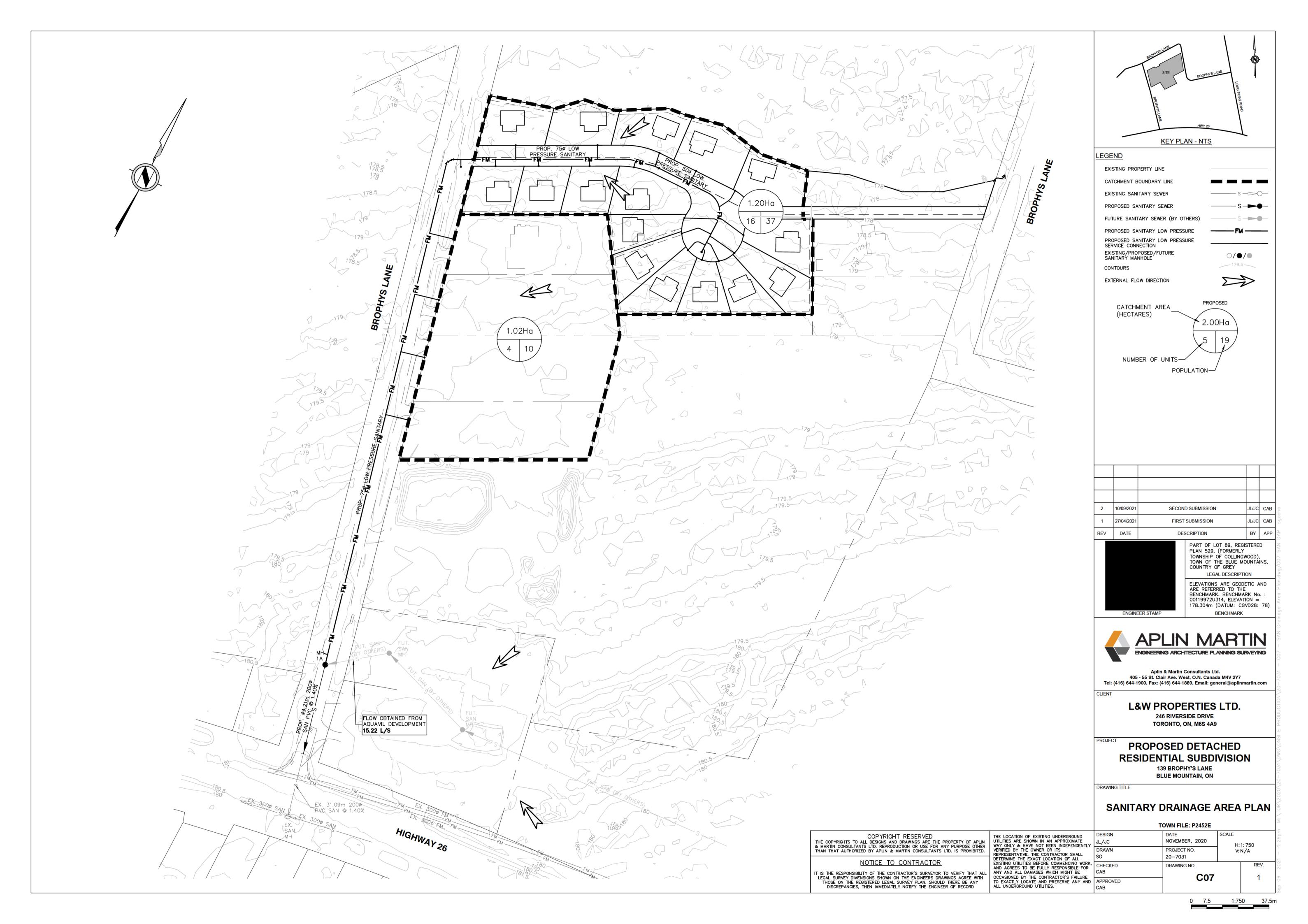
TOWN	FILE:	P2452

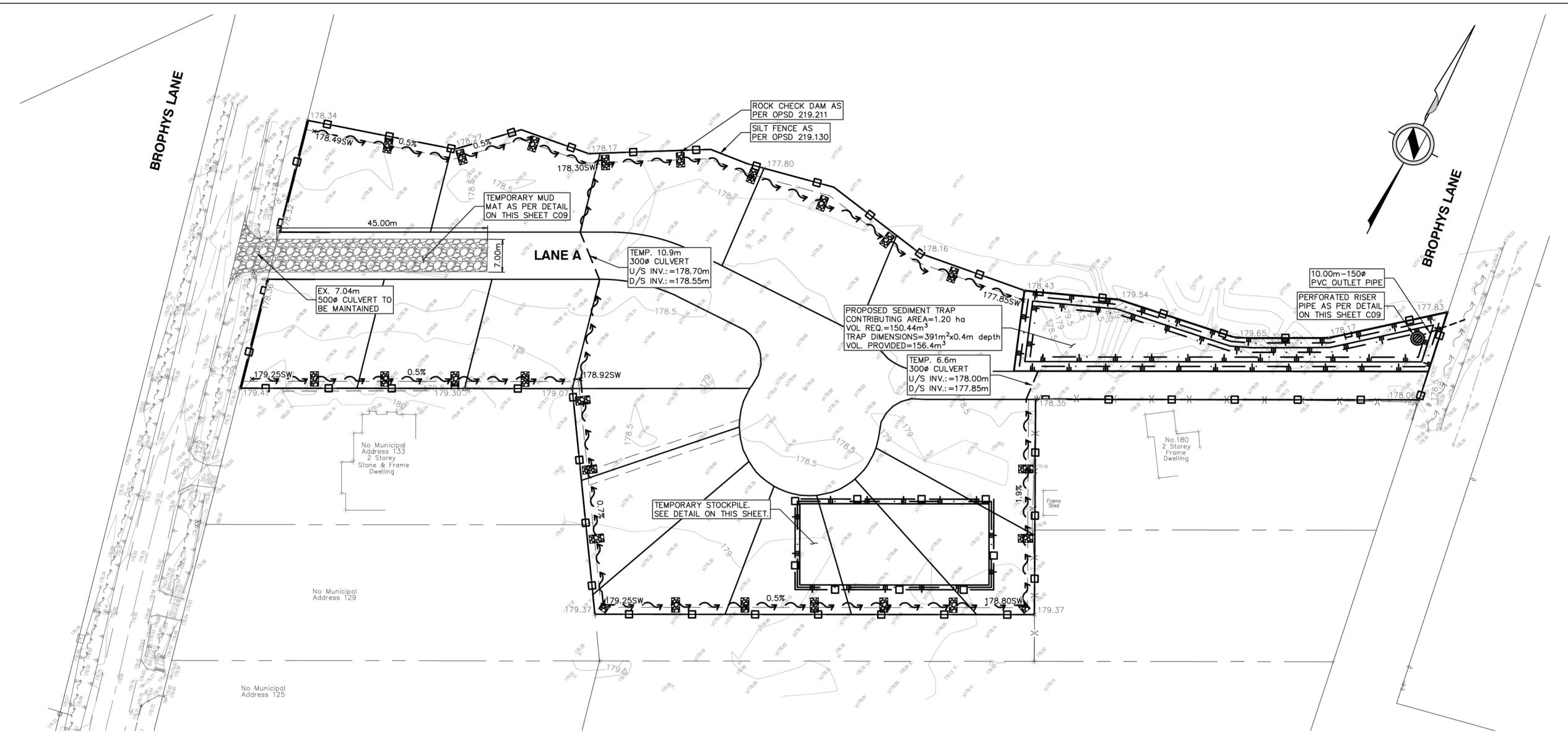
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AND	APPROVED CAB	C03		'





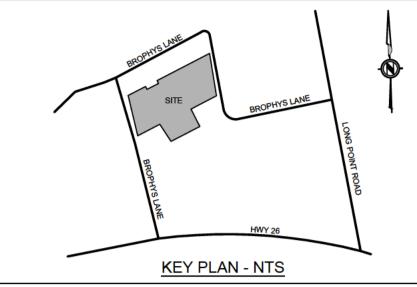






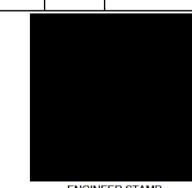
## EROSION AND SEDIMENT CONTROL

- EROSION AND SEDIMENT CONTROL (ESC) MEASURES WILL BE EROSION AND SEDIMENT CONTROL (ESC) MEASURES WILL BE IMPLEMENTED PRIOR TO, AND MAINTAINED DURING CONSTRUCTION PHASES, TO PREVENT ENTRY OF SEDIMENT INTO THE WATER. ALL DAMAGED EROSION AND SEDIMENT CONTROL MEASURES SHOULD BE REPAIRED OR REPLACED WITHIN 48 HOURS OF INSPECTION OR BOTH.
- . ALL DISTURBED AREAS WILL BE MINIMIZED TO THE EXTENT POSSIBLE, ALL DISTURBED AREAS WILL BE MINIMIZED TO THE EXTENT POSSIBLE, AND TEMPORARILY OR PERMANENTLY STABILIZED OR RESTORED AS THE WORK PROGRESSES.
- 3. THE EROSION AND SEDIMENT CONTROL STRATEGIES OUTLINED ON THE THE EROSION AND SEDIMENT CONTROL STRATEGIES OUTLINED ON THE PLANS ARE NOT STATIC AND MAY NEED TO BE UPGRADED/AMENDED AS SITE CONDITIONS CHANGE TO MINIMIZE SEDIMENT LADEN RUNOFF FROM LEAVING THE WORK ARÉA. IF THE PRESCRIBED MEASURES ON THE PLANS ARE NOT EFFECTIVE IN PREVENTING THE RELEASE OF A DELETERIOUS SUBSTANCE, THEN ALTERNATIVE MEASURES MUST BE IMPLEMENTED IMMEDIATELY TO MINIMIZE POTENTIAL ECOLOGICAL IMPACTS AND THE ENGINEER SHOULD BE IMMEDIATELY CONTACTED. ADDITIONAL ESC MATERIALS TO BE KEPT ON SITE AND USED AS NECESSARY.
- 4. ALL ACTIVITIES, INCLUDING MAINTENANCE PROCEDURES, WILL BE CONTROLLED TO PREVENT THE ENTRY OF PETROLEUM PRODUCTS, DEBRIS, RUBBLE, CONCRETE OR OTHER DELETERIOUS SUBSTANCES INTO THE WATER. VEHICULAR REFUELING AND MAINTENANCE AND REFUELING WILL BE CONDUCTED A MINIMUM OF 30 M FROM
- 5. ALL GRADES WITHIN THE REGULATORY FLOOD PLAN WILL BE ALL GRADES WITHIN THE REGULATORY FLOOD PLAN WILL BE MAINTAINED OR MATCHED.
- 6. THE SEDIMENT AND EROSION CONTROL MEASURES THAT ARE NOTED ARE TO REMAIN IN PLACE UNTIL CONSTRUCTION ACTIVITIES ARE COMPLETED AND THE DISTURBED AREAS ARE REVEGETATED AND/OR OTHERWISE STABILIZED IMMEDIATELY FOLLOWING CONSTRUCTION ACTIVITIES.



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178.5
858

10/09/2021	SECOND SUBMISSION		JL/JC	CAB
27/04/2021	FIRST SUBMISSION		JL/JC	CAB
DATE	DESCRIPTION		BY	APP
_	27/04/2021	27/04/2021 FIRST	27/04/2021 FIRST SUBMISSION	27/04/2021 FIRST SUBMISSION JL/JC



PLAN 529, (FORMERLY TOWNSHIP OF COLLINGWOOD),
TOWN OF THE BLUE MOUNTAINS,
COUNTRY OF GREY

00119972U314, ELEVATION =

178.304m (DATUM: CGVD28: 78)

BENCHMARK

PART OF LOT 89, REGISTERED

LEGAL DESCRIPTION ELEVATIONS ARE GEODETIC AND ARE REFERRED TO THE BENCHMARK, BENCHMARK No. :

**ENGINEER STAMP** 



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246 RIVERSIDE DRIVE TORONTO, ON, M6S 4A9

PROJECT PROPOSED DETACHED RESIDENTIAL SUBDIVISION

> 139 BROPHY'S LANE **BLUE MOUNTAIN, ON**

DRAWING TITLE

**EROSION & SEDIMENT CONTROL PLAN** 

**TOWN FILE: P2452E** 

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AND AGREES TO BE FULLY RESPONSIBLE F

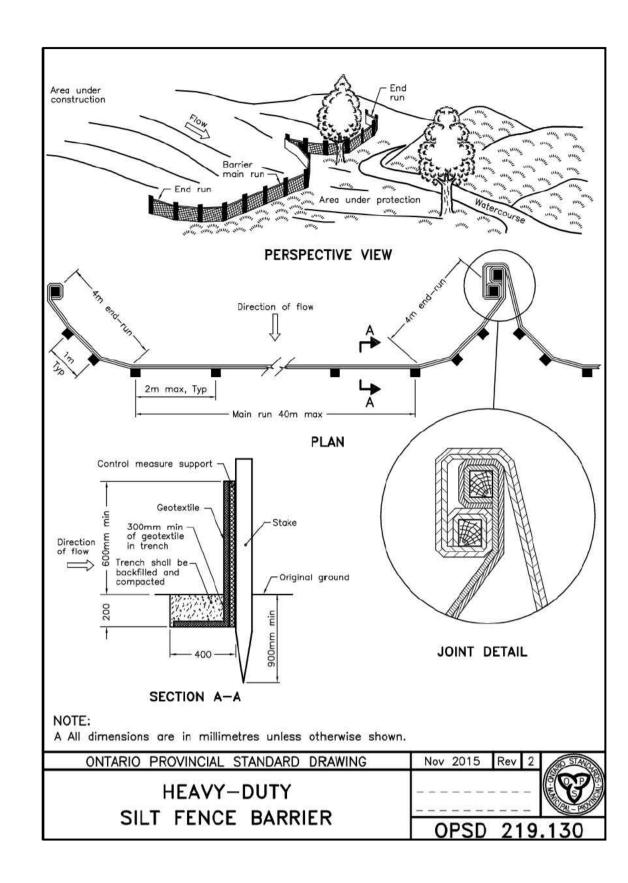
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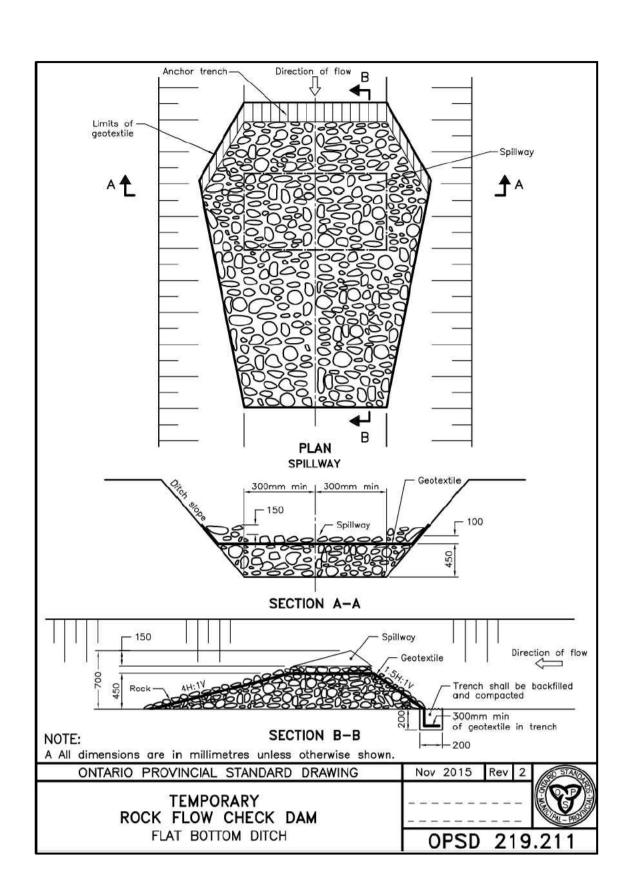
OCCASIONED BY THE CONTRACTOR'S FAILUIT

TO EXACTLY LOCATE AND PRESERVE ANY ALL UNDERGROUND UTILITIES.

THE LOCATION OF EXISTING UNDERGROUND THE LOCATION OF EXISTING UNDERGROUND UTILITIES ARE SHOWN IN AN APPROXIMATE WAY ONLY & HAVE NOT BEEN INDEPENDENTIVERIFIED BY THE OWNER OR ITS REPRESENTATIVE. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF ALL EXISTING UTILITIES BEFORE COMMENCING WOR AND AGREES TO BE FULLY RESPONSIBLE FOR AND ASPECT OF THE PROPERTY OF THE PROPER OCCASIONED BY THE CONTRACTOR'S FAILURE TO EXACTLY LOCATE AND PRESERVE ANY AN ALL UNDERGROUND UTILITIES.

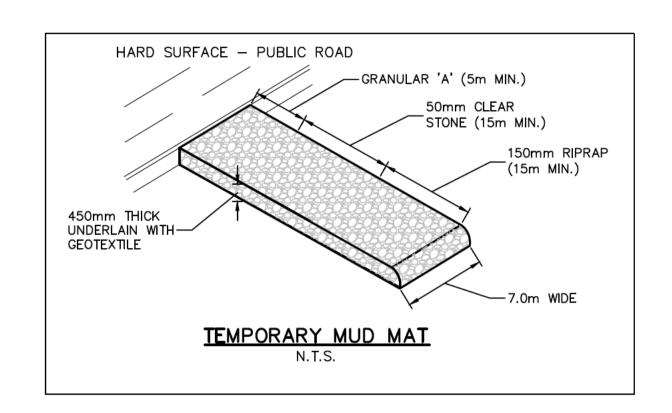
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AND	APPROVED CAB	C08		<b>I</b>

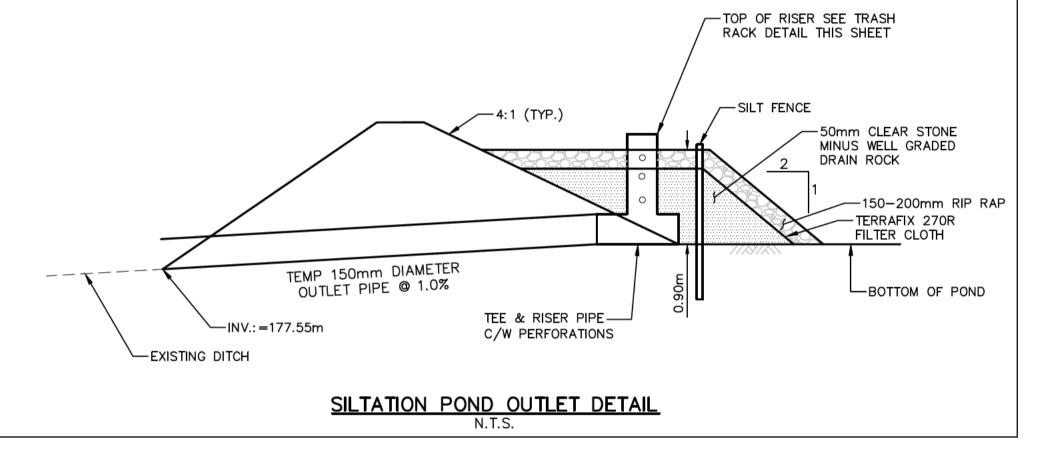


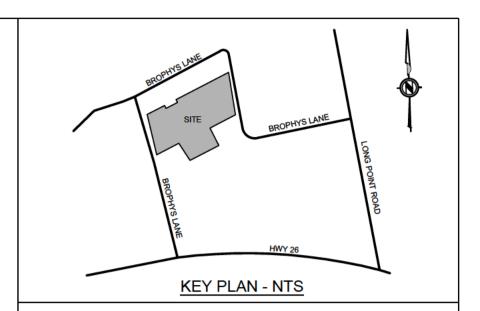


# 10m BARS-TACK WELD 150mmø\_ RISER **ELEVATION** TRASH RACK DETAIL N.T.S.

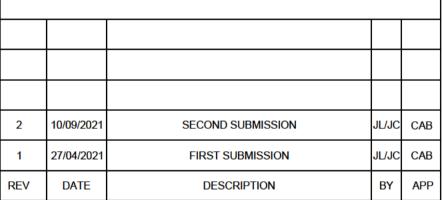
50mm







<u>LEGEND</u>



ENGINEER STAMP

PART OF LOT 89, REGISTERED PLAN 529, (FORMERLY TOWNSHIP OF COLLINGWOOD),
TOWN OF THE BLUE MOUNTAINS,
COUNTRY OF GREY LEGAL DESCRIPTION

ELEVATIONS ARE GEODETIC AND ARE REFERRED TO THE BENCHMARK, BENCHMARK No. : 00119972U314, ELEVATION =

178.304m (DATUM: CGVD28: 78) BENCHMARK



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246 RIVERSIDE DRIVE TORONTO, ON, M6S 4A9

PROJECT PROPOSED DETACHED RESIDENTIAL SUBDIVISION

> 139 BROPHY'S LANE **BLUE MOUNTAIN, ON**

DRAWING TITLE

**EROSION & SEDIMENT CONTROL DETAILS** 

TOWN EILE, BOAFOE

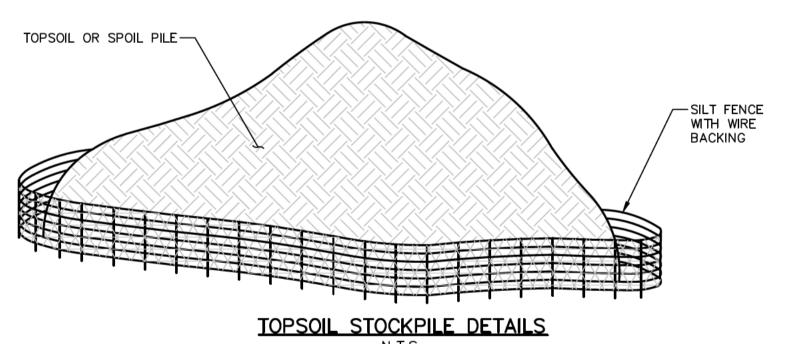
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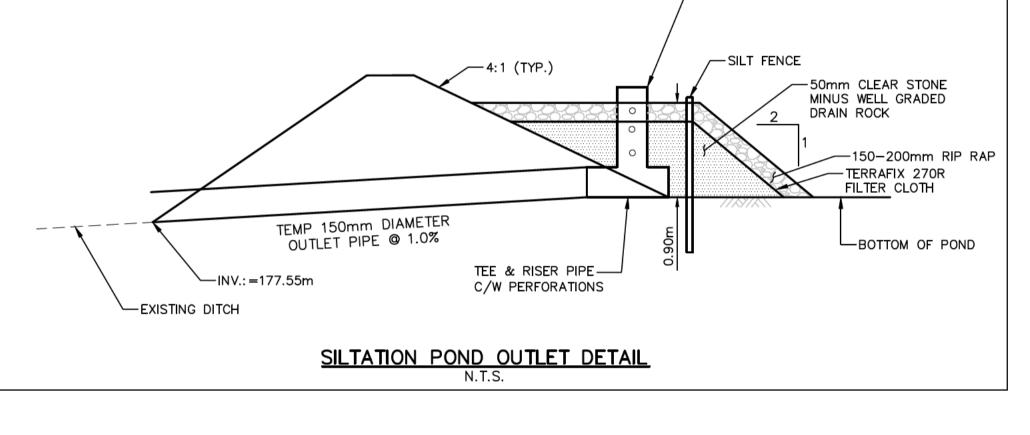
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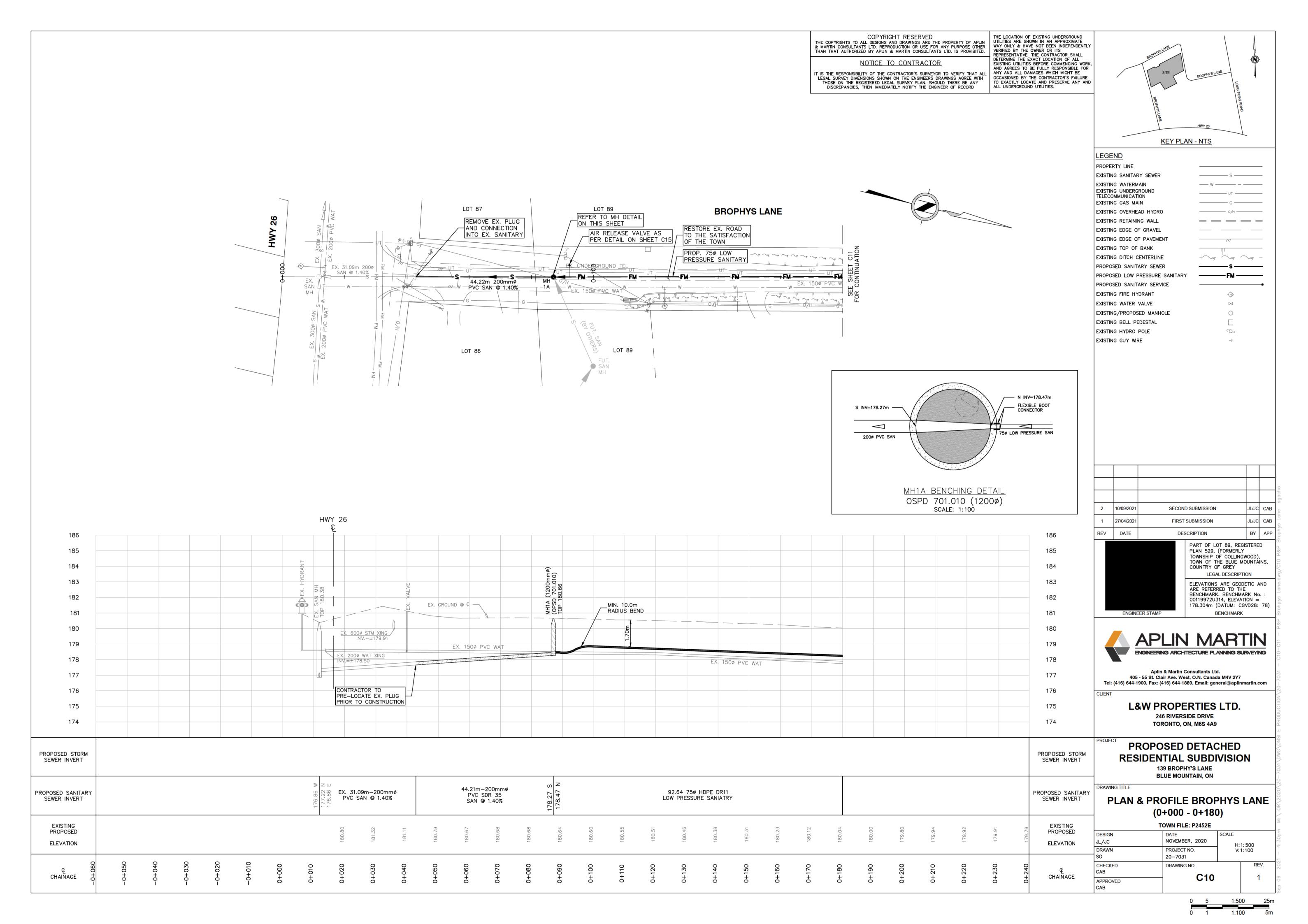
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L <b>L</b>	DRAWN SG	PROJECT NO. 20-7031		
WORK, FOR URE	CHECKED CAB	DRAWING NO.		REV.
AND	APPROVED	Cus		'

#### NOTES:

- 1. PILES CONTAINING MORE THAN 100 CUBIC METERS OF TOPSOIL OR SPOIL SHALL BE LOCATED A MINIMUM OF 15 METERS FROM A ROADWAY, WATERCOURSE OR CHANNEL.
- 2. PILES LEFT IN PLACE FOR MORE THAN 14 DAYS SHALL BE STABILIZED WITH A TARP, MULCH, VEGETATIVE COVER OR OTHER ACCEPTABLE MEANS.
- 3. ONTARIO REGULATION 406/19 , EXCESS SOIL MANAGEMENT TO







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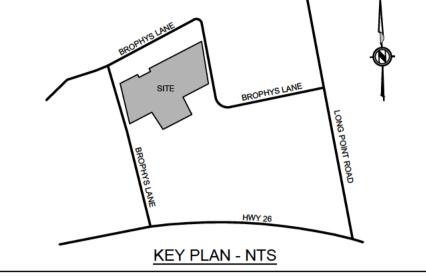
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**LEGEND** 

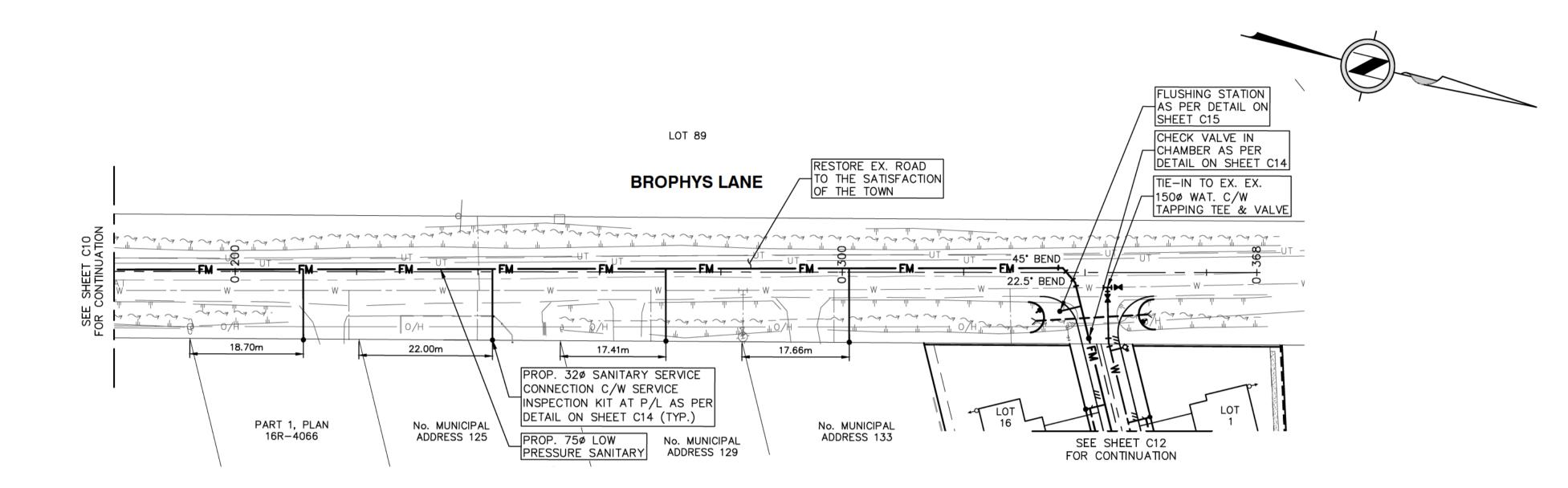
PROPERTY LINE

EXISTING WATERMAIN

EXISTING UNDERGROUND TELECOMMUNICATION



— W — — — —



EXISTING OVERHEAD HYDRO	o/H
EXISTING EDGE OF GRAVEL	
EXISTING TOP OF BANK	
EXISTING DITCH CENTERLINE	~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~
EXISTING RETAINING WALL	
PROPOSED LOW PRESSURE SANITARY	———FM ———
PROPOSED STORM SEWER	
PROPOSED WATERMAIN	— W—————
PROPOSED STORM CULVERT	
PROPOSED SANITARY SERVICE	
PROPOSED WATER SERVICE	<del></del>
PROPOSED SWALE	<del></del>
PROPOSED EDGE OF PAVEMENT	
EXISTING FIRE HYDRANT	- <del>(</del> )-
EXISTING WATER VALVE	$\bowtie$
EXISTING/PROPOSED MANHOLE	○/●
EXISTING BELL PEDESTAL	
EXISTING HYDRO POLE	Q
EXISTING GUY WIRE	$\rightarrow$

EX. GROUN	0 @ C —					
		7			MIN. 10.0m	
		۳0/2.			- / KADIOS BEIND	
	•	EX. 1500 PVC	WAT			
	PROP. 32¢ SAN CONN INV.:=178.17m	PROP. 32¢ SAN CONN. INV.:=178.04m	PROP. 32¢ SAN CONN. INV.:=178.00m	PROP. 32¢ SAN CONN. INV.: =177.71m	TIE-IN TO EX. 150Ø WAT. C/W TAPPING	
					INV.=±176.98	
			EX. 150¢ PVC	EX. 150¢ PVC WAT	EX. 150Ø PVC WAT	MIN. 10.0m RADIUS BEND  EX. 150¢ PVC WAT

PROPOSED STORM

SEWER INVERT

© CHAINAGE

2	10/09/2021	SECON	JL/JC	CA	
1	27/04/2021	FIRST SUBMISSION			CA
ΕV	DATE	DESCRIPTION			AP
			PART OF LOT 89, REGIS PLAN 529, (FORMERLY TOWNSHIP OF COLLINGW TOWN OF THE BLUE MO COUNTRY OF GREY LEGAL DESCRIPTION	OOD), UNTA	,

TOWNSHIP OF COLLINGWOOD),
TOWN OF THE BLUE MOUNTAINS,
COUNTRY OF GREY

LEGAL DESCRIPTION

ELEVATIONS ARE GEODETIC AND
ARE REFERRED TO THE
BENCHMARK. BENCHMARK No.:
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ENGINEER STAMP

APLIN MARTIN ENGINEERING ARCHITECTURE PLANNING SURVEYING

BENCHMARK

Aplin & Martin Consultants Ltd.
405 - 55 St. Clair Ave. West, O.N. Canada M4V 2Y7
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L&W PROPERTIES LTD.

246 RIVERSIDE DRIVE TORONTO, ON, M6S 4A9

PROPOSED SANITARY SEWER INVERT													160.3 LOW F	55m 75ø HD PRESSURE S	DPE DR11 SANIATRY											PROF S	POSED SANITARY SEWER INVERT	DRAWING
EXISTING PROPOSED 15.081	180.46	180.38	180.31	180.23	180.12	180.04	180.00	179.80	179.94	179.92	179.91	179.79	179.81	179.81	179.76	179.71	179.65	179.56	179.45	179.34	179.20	179.07	179.02	178.93			EXISTING PROPOSED ELEVATION	DESIGN JL/JC

PROPOSED DETACHED
RESIDENTIAL SUBDIVISION

139 BROPHY'S LANE
BLUE MOUNTAIN, ON

DRAWING TITLE

CHECKED

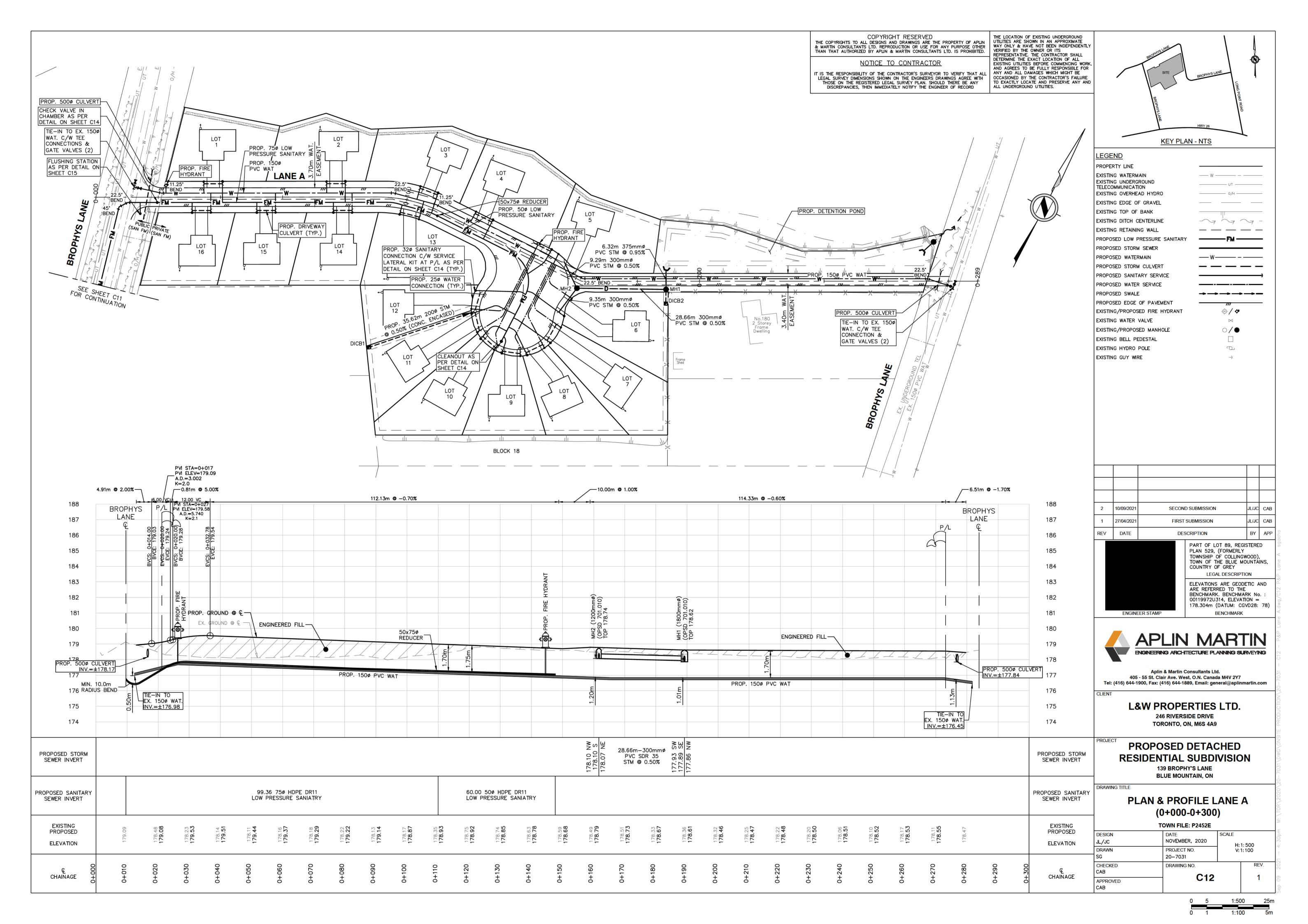
APPROVED

PROPOSED STORM SEWER INVERT

> € CHAINAGE

PLAN & PROFILE BROPHYS LANE (0+180 - 0+360)

0	5	1:500	25m
0	1	1:100	5m



#### ENGINEERING DRAWING NOTES

#### <u>GENERAL</u>

- 1. GRANULAR BACKFILL AROUND MANHOLES AND CATCHBASINS SHALL BE GRANULAR 'B' COMPACTED BY MECHANICAL MEANS TO A MINIMUM OF 100% S.P.M.D.D
- 2. MINIMUM WIDTH OF BENCHING IN MANHOLES SHALL BE 230MM OR AS SPECIFIED ON DRAWINGS.
- 3. MANHOLE AND CATCHBASIN COVERS SHALL BE SET FLUSH WITH HL8 ASPHALT AND ADJUSTED TO GRADE PRIOR TO INSTALLING TOP COURSE OF ASPHALT.
- 4. ALL MANHOLE CHAMBER OPENING SHALL BE LOCATED ON THE UPSTREAM SIDE OF THE
- 5. UNLESS OTHERWISE NOTED, DIMENSIONS FROM STREET LINE ARE TO CENTERLINE OF SEWER OR MANHOLE..
- 6. THE FOLLOWING PAVEMENT STRUCTURES (COMPACTED DEPTH) SHALL BE USED, UNLESS OTHERWISE SPECIFIED:
- PAVEMENT STRUCTURES:
- 40mm OF HL3 ASPHALT SURFACE COURSE
- 80mm OF HL8 ASPHALT BASE COURSE
- 150mm OF 20mm CRUSHER—RUN LIMESTONE BASE
- 300mm OF GRANULAR 'B' SUBBASE
- 9. DRIVEWAYS SHALL BE PAVED IN ACCORDANCE WITH THE FOLLOWING:
- 40mm OF HL3 SURFACE ASPHALT
- 40mm OF HL8 ASPHALT
- 150mm OF 20mm CRUSHER—RUN LIMESTONE BASE
- 200mm OF GRANULAR 'B' SUBBASE
- 10. GRANULAR 'A' AND GRANULAR 'B' BASE MATERIALS ARE TO BE COMPACTED TO 100%
- 11. SUBGRADE IS TO BE COMPACTED TO 98% SPMDD FOR AT LEAST THE UPPER 500mm UNLESS ACCEPTED BY THE GEOTECHNICAL ENGINEER.
- 12. A PROOF ROLL IS REQUIRED OF THE ROAD SUBBASE AND SHALL BE WITNESSED BY THE TOWN, GEOTECHNICAL CONSULTANT AND CONTRCTOR. A PROOF ROLL OF GRANULAR B MAY BE REQUIRED AT THE TOWN OR GEOTECHNICAL CONSULTANT'S DISCRETION.
- 13. SILTATION AND EROSION CONTROL WORKS SHALL BE AS SHOWN ON THE EROSION AND SEDIMENT CONTROL PLANS DRAWING NUMBER 20-7031-C08.
- 14. SILTATION CONTROL MEASURES SHALL BE IN PLACE PRIOR TO START OF CONSTRUCTION.
- 15. FOR DETAILS NOT SHOWN ON THESE DRAWINGS, REFERENCE SHOULD BE MADE TO THE DESIGN STANDARDS OF THE TOWN OF THE BLUE MOUNTAINS.
- 16. DESIGN BASED ON THE TOWN OF THE BLUE MOUNTAINS STANDARDS (CURRENT EDITION)
- 17. AN IN-DEPTH COMMUNICATION PLAN AND MEASURES WILL BE REQUIRED TO BE SUBMITTED TO THE TOWN'S SATISFACTION PRIOR TO CONSTRUCTION. THE PLAN WILL ADDRESS ITEMS SUCH AS, BUT NOT LIMITED TO, PROJECT NOTIFICATION SIGNS, NOTICE TO EXISTING RESIDENTS. AND NOTIFICATION TO THE TOWN AT CONSTRUCTION MILESTONES.

#### **EROSION & SEDIMENT CONTROL**

- 1. SEDIMENT AND EROSION CONTROL MEASURES WILL BE IMPLEMENTED PRIOR TO. AND MAINTAINED DURING CONSTRUCTIONS PHASES, TO PREVENT ENTRY OF SEDIMENT INTO
- 2. THE EROSION AND SEDIMENT CONTROL STRATEGIES OUTLINED ON THE PLANS ARE NOT STATIC AND MAY NEED TO BE UPGRADED/AMENDED AS SITE CONDITIONS CHANGE TO PREVENT SEDIMENT RELEASES TO THE NATURAL ENVIRONMENT.
- 3. ALL EROSION AND SEDIMENT CONTROL MEASURES SHOULD BE INSPECTED WEEKLY, AFTER EVERY RAINFALL AND SIGNIFICANT SNOW MELT EVENT. AND DAILY DURING PERIODS OF EXTENDED RAIN OR SNOW MELT.
- 4. ALL DAMAGED EROSION AND SEDIMENT CONTROL MEASURES SHOULD BE REPAIRED AND/OR REPLACED WITHIN 48 HOURS OF THE INSPECTION.
- 5. ALL ACTIVITIES, INCLUDING MAINTENANCE PROCEDURES, WILL BE CONTROLLED TO PREVENT THE ENTRY OF PETROLEUM PRODUCTS, DEBRIS, RUBBLE, CONCRETE OR OTHER DELETERIOUS SUBSTANCES INTO THE WATER. VEHICULAR REFUELING AND MAINTENANCE WILL BE CONDUCTED 30 METERS FROM THE WATER.
- 6. ALL DISTURBED AREAS WILL BE STABILIZED AND RESTORED WITH NATIVE/NON-INVASIVE SPECIES UPON COMPLETION OF THE WORK.
- 7. A REHABILITATION PLAN IS TO BE IMPLEMENTED TO RESTORE THE CONSTRUCTION SITE BACK TO ITS PRE- CONSTRUCTION STATE, OR BETTER.
- 8. THE CONTRACTOR SHALL MONITOR THE WEATHER SEVERAL DAYS IN ADVANCE OF THE ONSET OF THE PROJECT TO ENSURE THAT THE WORKS WILL BE CONDUCTED DURING FAVORABLE WEATHER CONDITIONS.

#### <u>GRADING</u>

- 1. ALL EXTERNAL SITE AREAS DISTURBED BY THE ACTIVITIES OF THE CONTRACTOR SHALL BE RESTORED TO EXISTING CONDITION OR BETTER AND TO THE SATISFACTION OF THE TOWN. GRASSED AREAS SHALL BE RESTORED BY PLACING 150mm TOPSOIL AND SOD. ALL BOULEVARDS TO BE SODDED.
- 2. TOPSOIL IN FILL AREAS TO BE STRIPPED. ALL FILL MATERIAL SHALL BE APPROVED FOR SUITABILITY BY THE GEOTECHNICAL ENGINEER PRIOR TO ANY FILLING OR REUSE OF EXCAVATED MATERIAL. APPROVED FILL MATERIAL SHALL BE COMPACTED TO THE SATISFACTION OF THE GEOTECHNICAL ENGINEER.
- 3. ALL RAINWATER LEADERS SHALL DISCHARGE ONTO SPLASH PADS AT GROUND LEVEL.
- 4. THE SOIL'S CONSULTANT SHALL VERIFY THE SUITABILITY OF THE ENGINEERED FILL AT THE SOURCE PRIOR TO HAULING ANY MATERIAL ON SITE.
- 5. ALL FILL SHALL BE PLACED AND COMPACTED TO 95% STANDARD PROCTOR DENSITY (SPD) IN MAXIMUM 0.20m LIFTS TO SUBGRADE. FILL SHALL BE COMPACTED TO 98% SPD AS DIRECTED BY THE CONSULTANT.
- 6. EXISTING BOUNDARY ELEVATION ALONG THE SITE PERIMETER SHALL REMAIN UNDISTURBED. DRAINAGE RECEIVED FROM ADJACENT PROPERTIES SHALL BE ACCOMMODATED AND DRAINAGE FROM THE SUBJECT LANDS SHALL BE SELF-CONTAINED.
- 7. PAVEMENT GRADES (MIN. 0.5%, MAX. 6.0%).
- 8. DRIVEWAY GRADES (MIN. 2.0%, MAX. 6.0%).
- 9. BOULEVARD GRADES ARE TO BE (MIN. 2.0% TO MAX. 5.0%).
- 10. DRAINAGE SWALES WITH GRADES (MIN. 2.0%, MAX. 5.0%).
- 11. MINIMUM DEPTH OF PONDING FOR A SWALE SHALL BE 350mm.
- 12. MAXIMUM GRADE BETWEEN HOUSES SHALL NOT EXCEED 4 HORIZONTAL TO 1 VERTICAL.
- 13. SLOPES IN LANDSCAPED AREAS AND ON BERMS SHALL NOT EXCEED 3 HORIZONTAL TO 1 VERTICAL WITH A MAXIMUM VERTICAL ELEVATION NOT IN EXCESS OF THE APPLICABLE TOWN STANDARD.
- 14. ALL GRADING TO CONFORM TO THE TOWN OF THE BLUE MOUNTAINS CRITERIA AND O.P.S.D.
- 15. ALL CONSTRUCTION TO BE CARRIED OUT IN ACCORDANCE WITH THE MOST CURRENT DESIGN CRITERIA, STANDARDS, AND SPECIFICATIONS OF THE TOWN OF THE BLUE MOUNTAINS AND O.P.S.D.

#### WATERMAIN

- 1. WATERMAINS 150mmø TO 300mmø SHALL BE PVC CL. 150 (DR-18) CONFORMING TO A.W.W.A. C905 AND C.S.A. B137.3 OR LATEST REVISION THEREOF WITH GASKETED JOINTS AND BE PROVIDED WITH 10 GAUGE SOLID COPPER TRACER WIRE.
- 2. A MIN. HORIZONTAL SEPARATION OF 2.5m AND A MIN. VERTICAL SEPARATION OF 0.30m BETWEEN WATERMAINS AND SEWERS MUST BE MAINTAINED IF WATERMAIN IS ABOVE SEWER OR 0.50m ABOVE WATERMAIN, OUTSIDE TO OUTSIDE OF PIPES.
- 3. WATERMAIN BEDDING AND EMBEDMENT MATERIAL SHALL BE GRANULAR AS PER O.P.S.D. 802.010 GRANULAR 'A' TO CONFORM TO O.P.S.S. 1010.
- 4. ALL HYDRANTS SHALL BE MUELLER (CENTURY) OR AVK (2780 SERIES), OPEN LEFT AND SHALL BE PAINTED CHROME YELLOW. ALL HYDRANTS SHALL HAVE A FLEXSTAKE HYDRANT MARKER MODEL FHV804, 1.2m LONG, COLOUR YELLOW WITH A REFLECTIVE HYDRANT GRAPHIC ON BOTH SIDES AT THE TOP OF THE MARKER AND PROVIDE STORZ FITTING ON ALL STEAMER PORTS.
- 5. A SECONDARY FIRE HYDRANT MARKER SHALL BE INSTALLED 0.3m BEHIND EACH HYDRANT. THE SIGN SHALL BE REFLECTIVE WITH A RED HYDRANT ON A WHITE BACKGROUND AND MEASURE 0.3m X 0.3m. THE SIGN SHALL BE MOUNTED 1.5m ABOVE GRADE.
- 6. ALL PLUGS, CAPS, TEES AND BENDS SHALL HAVE THRUST BLOCKS OR BE MECHANICALLY RESTRAINED.
- 7. THRUST BLOCKS TO CONFORM TO O.P.S.S. 1103.010 (HORIZONTAL) AND JOINT RESTRAINTS ARE AS PER THE TOWN OF THE BLUE MOUNTAINS SPECIFICATIONS.
- 8. MINIMUM DEPTH OF COVER OVER WATERMAIN SHALL BE 1.70m AND MAXIMUM DEPTH SHALL BE 2.5m.
- 9. GATE VALVES SHALL BE RESIDENT SEAT VALVES WITH MECHANICAL JOINT, OPEN LEFT, MUELLER (A-2360 OR A-2361), CLOW F-6100) OR AVK (SERIES 45/65). VALVE BOXES SHALL BE BIBBY OR STAR (VB666A) C/W GUIDE PLATE AND DUCTILE ADJUSTABLE TOP AND LID.
- 10. WATER SERVICE CONNECTIONS SHALL BE 25mm DIAMETER TYPE 'K' SOFT COPPER, REHAU'S MUNICIPLEX (BLUE) OR SERIES 160 PE C/W SHUT OFF AT PROPERTY LINE AS PER THE TOWN OF THE BLUE MOUNTAINS SPECIFICATIONS.
- 11. CATHODIC PROTECTION IS REQUIRED ON ALL METALLIC FITTINGS AS PER THE TOWN OF THE BLUE MOUNTAINS SPECIFICATIONS.
- 12. ALL TESTING TO BE IN ACCORDANCE WITH THE TOWN'S WATERMAIN COMMISSIONING PROTOCOL.
- 13. ALL CHEMICALS AND MATERIALS USED IN THE ALTERATION OR OPERATION OF THE DRINKING WATER SYSTEM SHALL MEET ALL APPLICABLE STANDARDS SET BY BOTH THE AMERICAN WATER WORKS ASSOCIATION ("AWWA") AND THE AMERICAN NATIONAL STANDARDS INSTITUTE ("ANSI") SAFETY CRITERIA STANDARDS NSF/60. NSF/61 AND NSF/372.
- 14. PROOF OF NSF CERTIFICATION FOR ALL COMPONENTS IS REQUIRED FOR CONNECTIONS OF NEW WATERMAIN TO TOWN SYSTEM, PER THE TOWN'S WATERMAIN COMMISSIONING PROTOCOL.

#### SANITARY SEWERS

- 1. SANITARY MANHOLES AS PER O.P.S.D. 701.010 WITH FRAMES AND COVERS AS PER O.P.S.D. 401.010 TYPE 'A'.
- 2. SANITARY MANHOLE TOPS TO BE STAMPED "SANITARY". SANITARY SEWER PIPES SHALL BE PVC OR CONCRETE AND AS SHOWN ON DRAWINGS. PVC PIPE SHALL BE SDR-35 CONFORMING TO C.S.A. SPECIFICATION B182.2-M1990 AND B182.4-M1992 OR LATEST REVISION THEREOF. 300mm AND SMALLER CONCRETE PIPES TO BE NON-REINFORCED EXTRA STRENGTH CONFORMING TO C.S.A. SPECIFICATION A257.1-M1982 DR LATEST REVISION THEREOF.
- ALL STRUCTURES TO HAVE FROST STRAPS AS PER OPSD 701.100.
- 4. BEDDING FOR PVC SANITARY SEWERS TO BE AS PER O.P.S.D. 802.010 WITH GRANULAR 'A' BEDDING AND O.P.S.D 802.030. CLASS 'B' WITH GRANULAR 'A' BEDDING FOR CONCRETE PIPES.
- 5. BENCHING TO BE AS PER O.P.S.D. 701.021 WITH MINIMUM WIDTH OF 230mm OR AS SPECIFIED ON DRAWINGS.
- 6. SAFETY PLATFORMS TO BE AS PER O.P.S.D. 404.020 AND TO BE INSTALLED IN MANHOLES WHERE DEPTH EXCEEDS 5.0m.
- 7. DROP STRUCTURES SHALL BE AS PER O.P.S.D. 1003.010 OR 1003.020.
- 8. SANITARY LATERALS TO BE 125mm DIAMETER PVC SDR-28 CONFORMING TO C.S.A. SPECIFICATION B182.2.

#### LOW PRESSURE SANITARY SEWER

- 1. LOW PRESSURE SANITARY SYSTEM TO BE SDR11 HDPE FUSION WELD JOINTS, WITH
- 2. FLUSHING PORTS IN CHAMBERS, EQUIPPED WITH QUICK CONNECT FITTINGS, REQUIRED ALONG THE LOW PRESSURE SANITARY MAIN, IN THE TOWN ROW (OR CONDOMINIUM COMMON ELEMENT) AT SHARP BENDS, INCLUDING TEE INTERSECTIONS AND A MINIMUM 300 M SPACING.
- INSULATION WHEN COVER IS LESS THAN 1.7m.
- 4. SERVICE LATERALS KITS SHALL INCLUDE STAINLESS CHECK VALVE/CURB STOP VALVE ASSEMBLY LOCATED ENTIRELY WITHIN TOWN ROAD ROW (OR CONDOMINIUM COMMON ELEMENT). SERVICE BOX TO HAVE STAINLESS STEEL STEM. VALVE BOX COVERS TO BE STAMPED "SEWER".
- 5. SERVICE LATERAL PIPING TO BE MINIMUM 32mm DIA, POLYETHYLENE (PE) DR-11 TUBING, COMPRESSION JOINT CONNECTIONS REQUIRING A STAINLESS-STEEL TUBE LINER WITH A FLUTED END AS SUPPLIED BY THE CORPORATION STOP MANUFACTURER.
- 6. ALL STRUCTURES TO HAVE FROST STRAPS AS PER OPSD 701.100.

#### STORM SEWERS

- 1. STORM SEWER PIPES 300mm AND 375mm SHALL BE C.S.A. B182.4 RIBBED PVC SDR 35 CONFORMING TO C.S.A. SPECIFICATION B182.2-M1990 AND B182.4-M1992 OR LATEST REVISION THEREOF. STORM SEWER PIPES INCLUDING AND LARGER THAN 45Dmmo SHALL BE REINFORCED CONCRETE CONFORMING TO C.S.A. SPECIFICATION A257.2-M1982 OR LATEST REVISION THEREOF. PIPE JOINTS SHALL BE BY MEANS OF APPROVED RUBBER GASKETS CONFORMING TO C.S.A. SPECIFICATION A257.3-M1982 OR LA TEST REVISION
- 2. SEWER BEDDING AND BACKFILL FOR STORM SEWER SHALL BE AS PER O.P.S.D. 802.030 CLASS 'B' WITH GRANULAR 'A' BEDDING FOR CONCRETE PIPE. 802.010 FOR PVC PIPE AND 802.050 CLASS 'B' BEDDING FOR HORIZONTAL ELLIPTICAL PIPE.
- 3. STORM MANHOLES AS PER 0.P.S.D. 701.010, 701.011, 701.012, 701.013 AND WITH SIZE AS NOTED ON DRAWINGS.
- 4. FRAME AND COVER AS PER O.P.S.D. 401.010 TYPE 'B'. SAFETY PLATFORMS AS PER O.P.S.D. 404.020 AND SHALL BE INSTALLED IN MANHOLES WHERE DEPTH EXCEEDS 5.0m. STORM MANHOLE BENCHING TO BE TO OBVERT OF PIPE AND AS PER 0.P.S.D. 701.021. MINIMUM 230mm IN WIDTH AND TO CROWN OR AS SPECIFIED ON DRAWINGS.
- 5. ALL STRUCTURES TO HAVE FROST STRAPS AS PER OPSD 701.100.
- 6. CATCHBASINS SHALL BE AS PER O.P.S.D. 705.020 (DOUBLE) AND 705.010 (SINGLE) WITH FRAMES AND GRATES AS PER O.P.S.D. 400.100. CATCHBASIN CONNECTIONS SHALL BE AS PER O.P.S.D. 708.030. CATCH BASIN LATERAL - 300mmø.
- 7. DITCH INLET CATCH BASINS SHALL CONFORM TO OPSD 705.10 WITH FRAME AND GRATE AS PER OPSD 403.010.

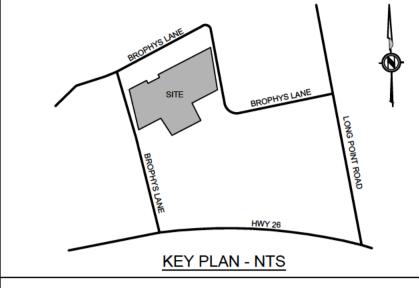
#### UTILITY NOTES

- 1. THE LOCATION OF EXISTING UTILITIES ARE APPROXIMATE. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF UTILITIES BY CONSULTING THE APPROPRIATE MUNICIPAL AND/OR UTILITY AUTHORITIES AND REPORT ANY DISCREPANCIES TO THE ENGINEER PRIOR TO COMMENCING WORK.
- 2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING ADEQUATE PROTECTION FOR UTILITIES AGAINST DAMAGE DURING CONSTRUCTION.
- 3. UTILITY DUCTS SHALL BE PLACED PRIOR TO THE COMMENCEMENT OF ROAD BASE CONSTRUCTION AND CAPPED IN ACCORDANCE WITH THE REQUIREMENTS OF THE UTILITY AUTHORITY.

THE COPYRIGHTS TO ALL DESIGNS AND DRAWINGS & MARTIN CONSULTANTS LTD. REPRODUCTION OR I THAN THAT AUTHORIZED BY APLIN & MARTIN CON

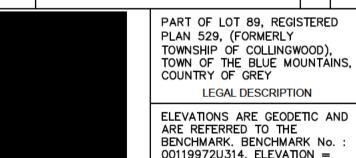
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4. PRIOR TO INSTALLING UTILITIES, BOULEVARD GRADING SHALL BE COMPLETED TO WITHIN 150mm OF PROPOSED FINAL GRADING ELEVATIONS.



<u>LEGEND</u>

JL/JC CAB 10/09/2021 SECOND SUBMISSION 27/04/2021 JL/JC CAB FIRST SUBMISSION BY APP **REV** DATE DESCRIPTION



ENGINEERING ARCHITECTURE PLANNING SURVEYING

178.304m (DATUM: CGVD28: 78)

BENCHMARK

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L&W PROPERTIES LTD. 246 RIVERSIDE DRIVE TORONTO, ON, M6S 4A9

ENGINEER STAMP

PROJECT PROPOSED DETACHED RESIDENTIAL SUBDIVISION 139 BROPHY'S LANE

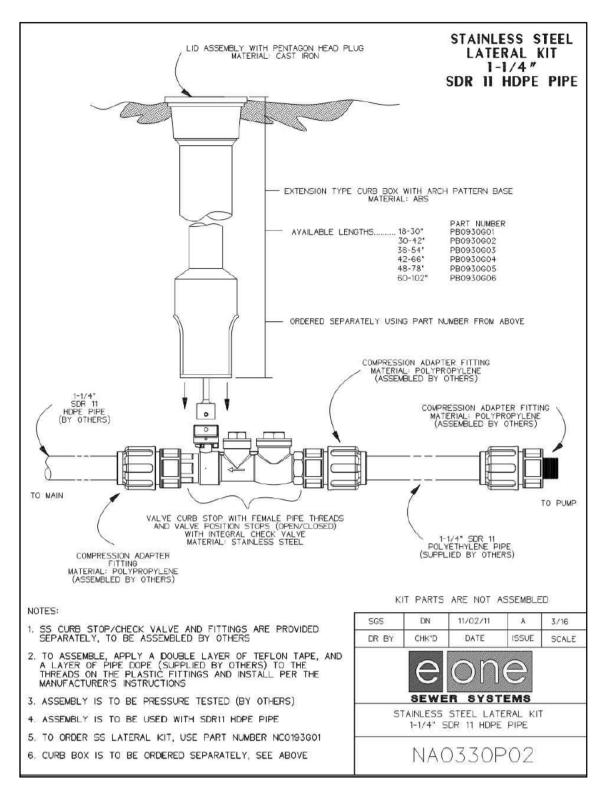
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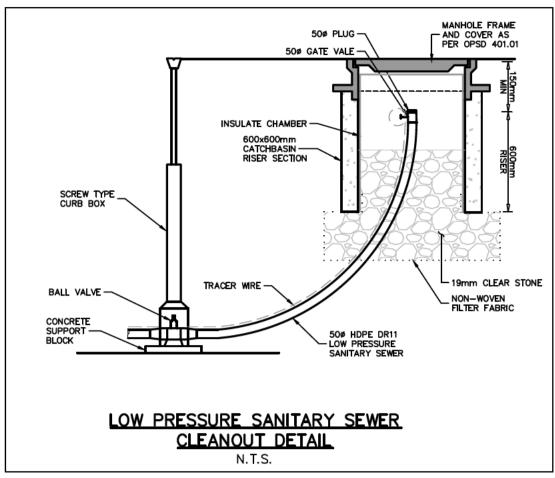
STANDARD NOTES

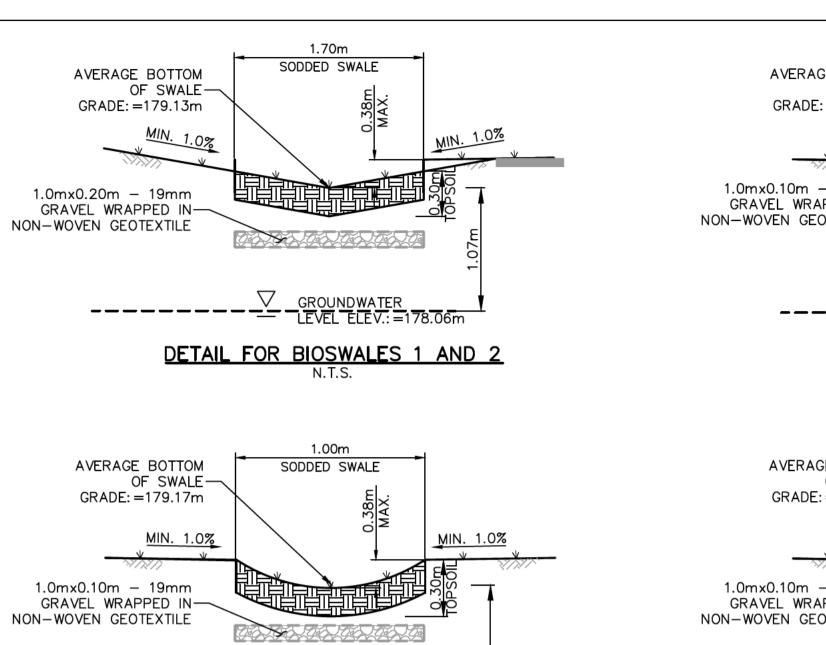
**BLUE MOUNTAIN, ON** 

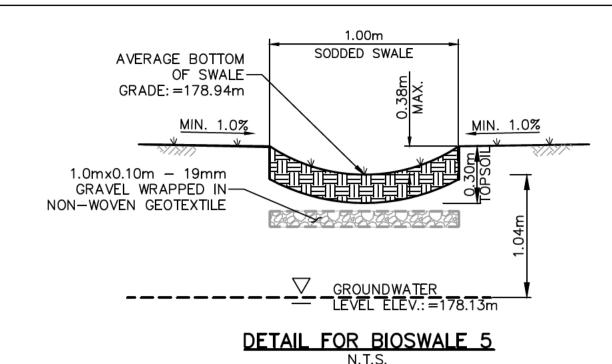
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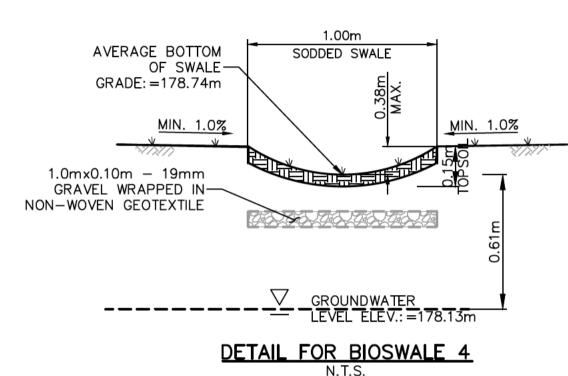
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COPYRIGHT RESERVED	THE LOCATION OF EXISTING UNDERGROUND	DESIGN	DATE	SCALE		
E COPYRIGHTS TO ALL DESIGNS AND DRAWNGS ARE THE PROPERTY OF APLIN MARTIN CONSULTANTS LTD. REPRODUCTION OR USE FOR ANY PURPOSE OTHER	UTILITIES ARE SHOWN IN AN APPROXIMATE WAY ONLY & HAVE NOT BEEN INDEPENDENTLY VERIFIED BY THE OWNER OR ITS	JL/JC	NOVEMBER, 2020			
AN THAT AUTHORIZED BY APLIN & MARTIN CONSULTANTS LTD. IS PROHIBITED.		DRAWN	PROJECT NO.	N/	Α	
NOTICE TO CONTRACTOR	REPRESENTATIVE. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF ALL	SG	20-7031			
NOTICE TO CONTRACTOR	EXISTING UTILITIES BEFORE COMMENCING WORK, AND AGREES TO BE FULLY RESPONSIBLE FOR	CHECKED	DRAWING NO.		REV.	
S THE RESPONSIBILITY OF THE CONTRACTOR'S SURVEYOR TO VERIFY THAT ALL	ANY AND ALL DAMAGES WHICH MIGHT BE	CAB	040		4	
EGAL SURVEY DIMENSIONS SHOWN ON THE ENGINEERS DRAWINGS AGREE WITH THOSE ON THE REGISTERED LEGAL SURVEY PLAN. SHOULD THERE BE ANY	OCCASIONED BY THE CONTRACTOR'S FAILURE TO EXACTLY LOCATE AND PRESERVE ANY AND	APPROVED	C13		I	
DISCREPANCIES, THEN IMMEDIATELY NOTIFY THE ENGINEER OF RECORD	ALL UNDERGROUND UTILITIES.	CAB				





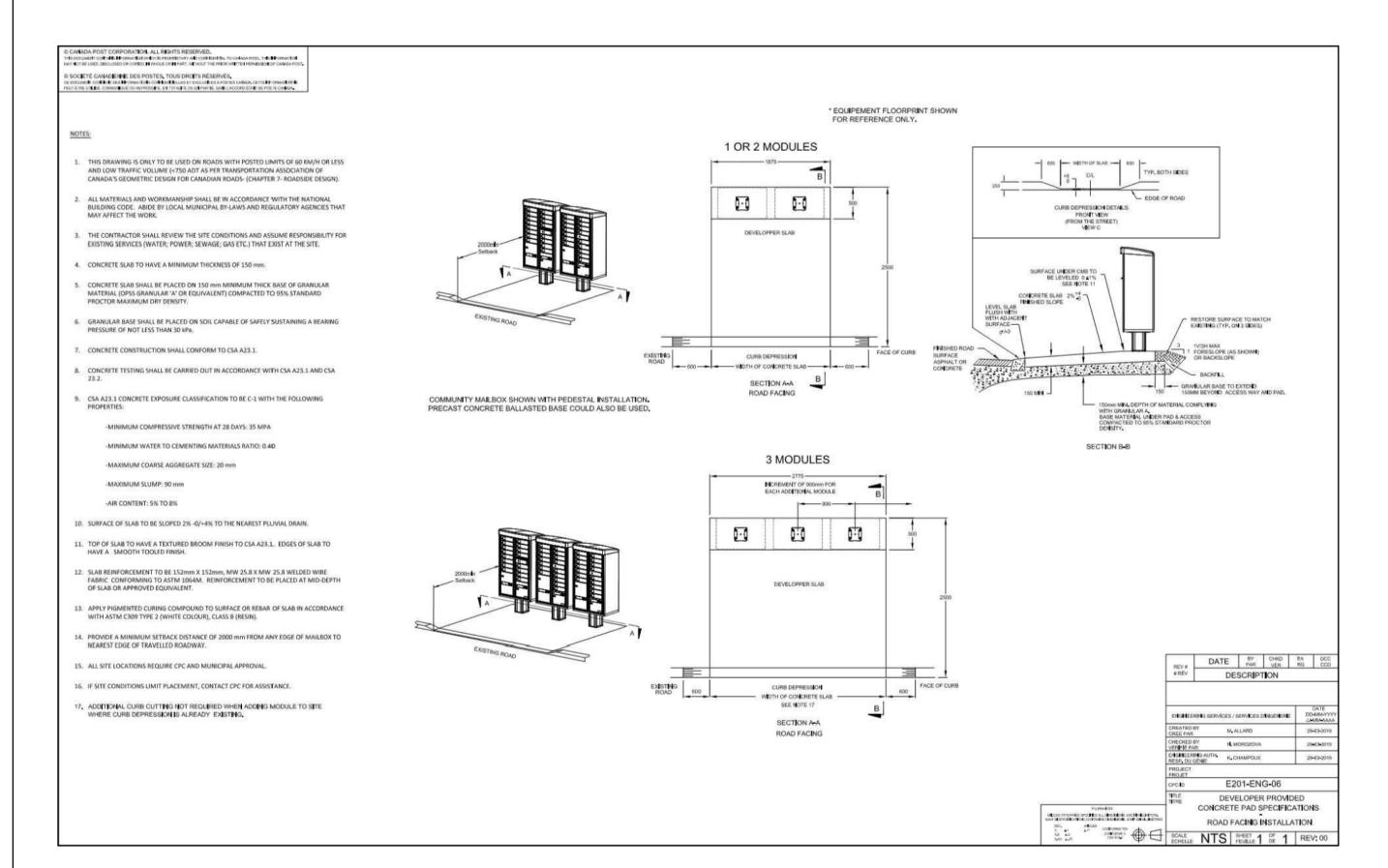


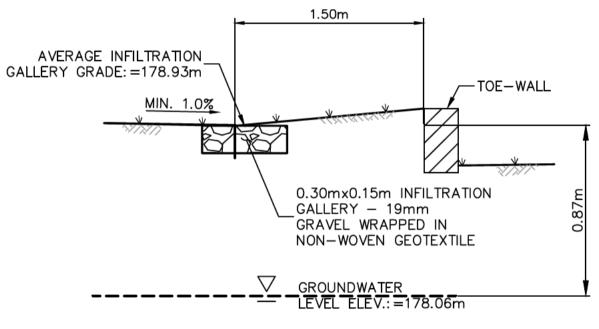




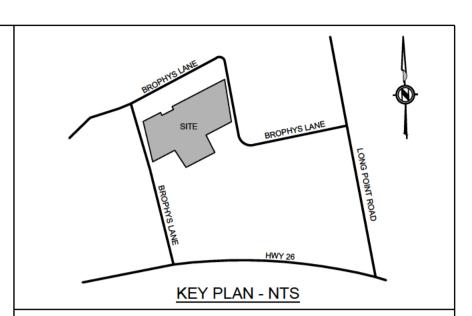
**DETAIL FOR BIOSWALE 3** 

GROUNDWATER
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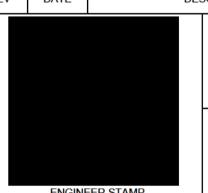


DETAIL FOR INFILTRATION GALLERY
N.T.S.



LEGEND

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1	0/09/2021	SECONI	D SUBMISSION	JL/JC	CAB	sgac
2	27/04/2021	FIRST	SUBMISSION	JL/JC	CAB	ails
'	DATE	DES	SCRIPTION	BY	APP	Det
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PART OF LOT 89, REGISTERED PLAN 529, (FORMERLY TOWNSHIP OF COLLINGWOOD),
TOWN OF THE BLUE MOUNTAINS,
COUNTRY OF GREY LEGAL DESCRIPTION ELEVATIONS ARE GEODETIC AND ARE REFERRED TO THE BENCHMARK, BENCHMARK No.

00119972U314, ELEVATION =

178.304m (DATUM: CGVD28: 78)

BENCHMARK

ENGINEER STAMP



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PROJECT PROPOSED DETACHED RESIDENTIAL SUBDIVISION 139 BROPHY'S LANE

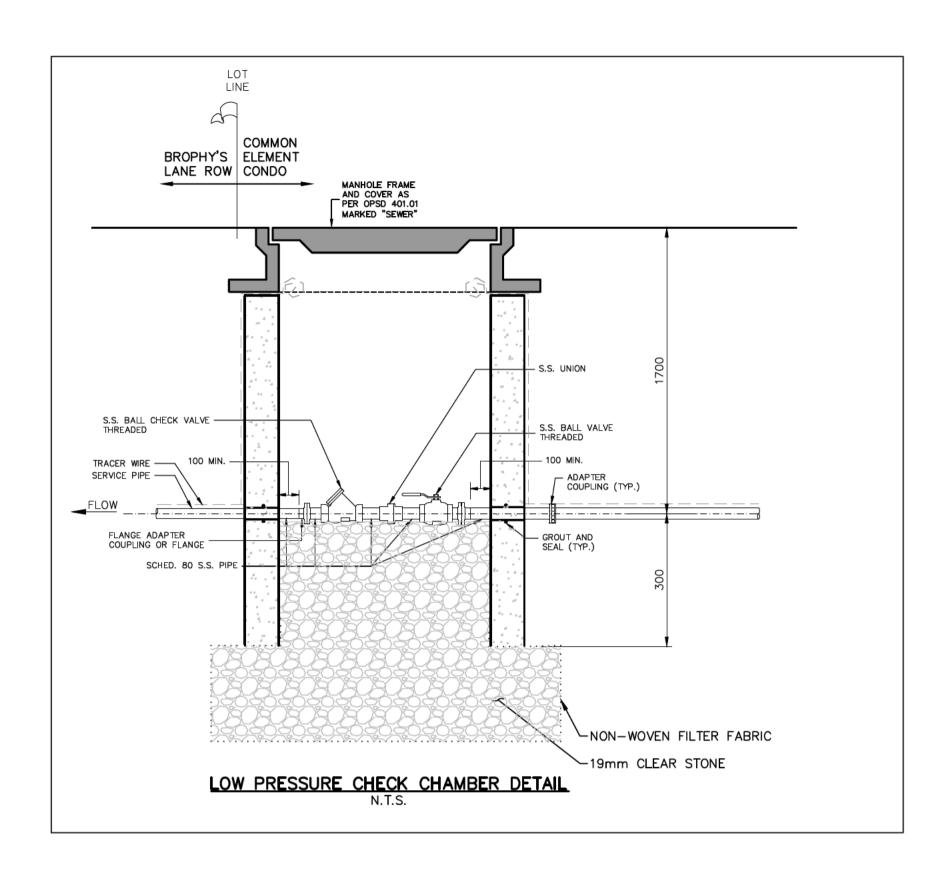
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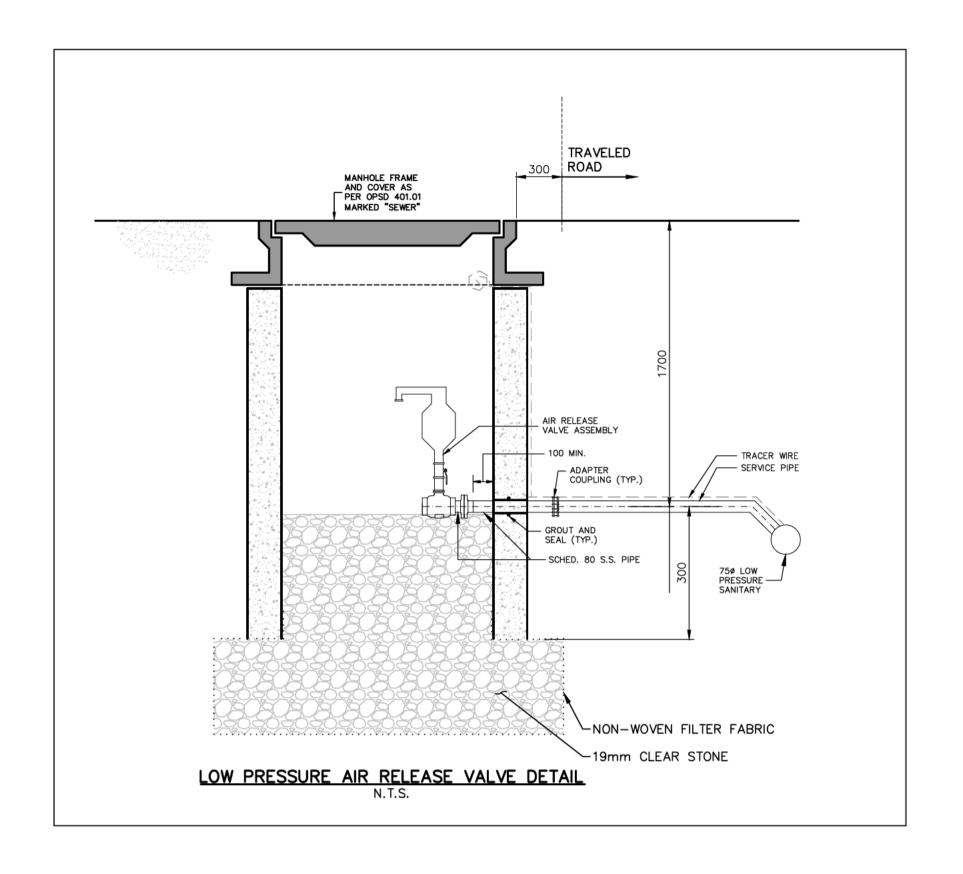
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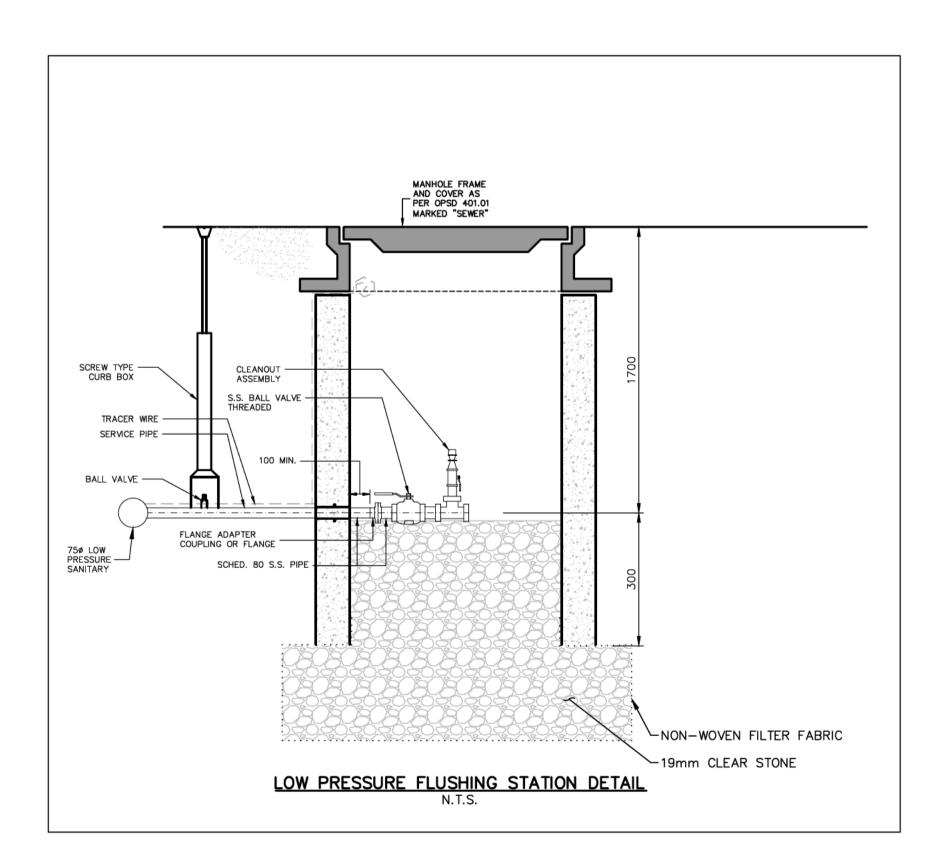
**BLUE MOUNTAIN, ON** 

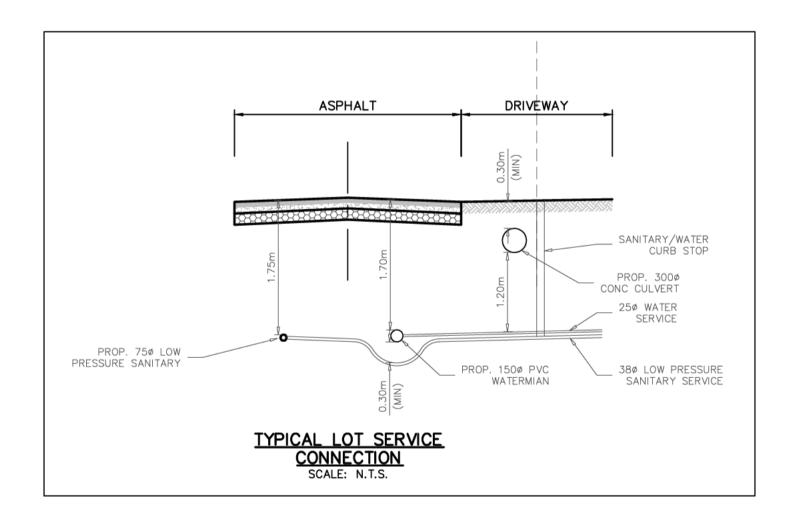
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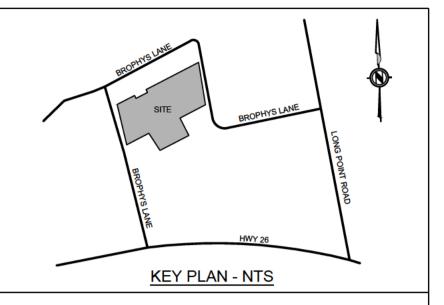
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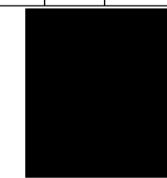






<u>LEGEND</u>

2	10/09/2021	SECOND SUBMISSION	JL/JC	CAB
1	27/04/2021	FIRST SUBMISSION	JL/JC	CAB
REV	DATE	DESCRIPTION	BY	APP



PART OF LOT 89, REGISTERED
PLAN 529, (FORMERLY
TOWNSHIP OF COLLINGWOOD),
TOWN OF THE BLUE MOUNTAINS,
COUNTRY OF GREY

LEGAL DESCRIPTION ELEVATIONS ARE GEODETIC AND ARE REFERRED TO THE BENCHMARK. BENCHMARK No.: 00119972U314, ELEVATION = 178.304m (DATUM: CGVD28: 78)

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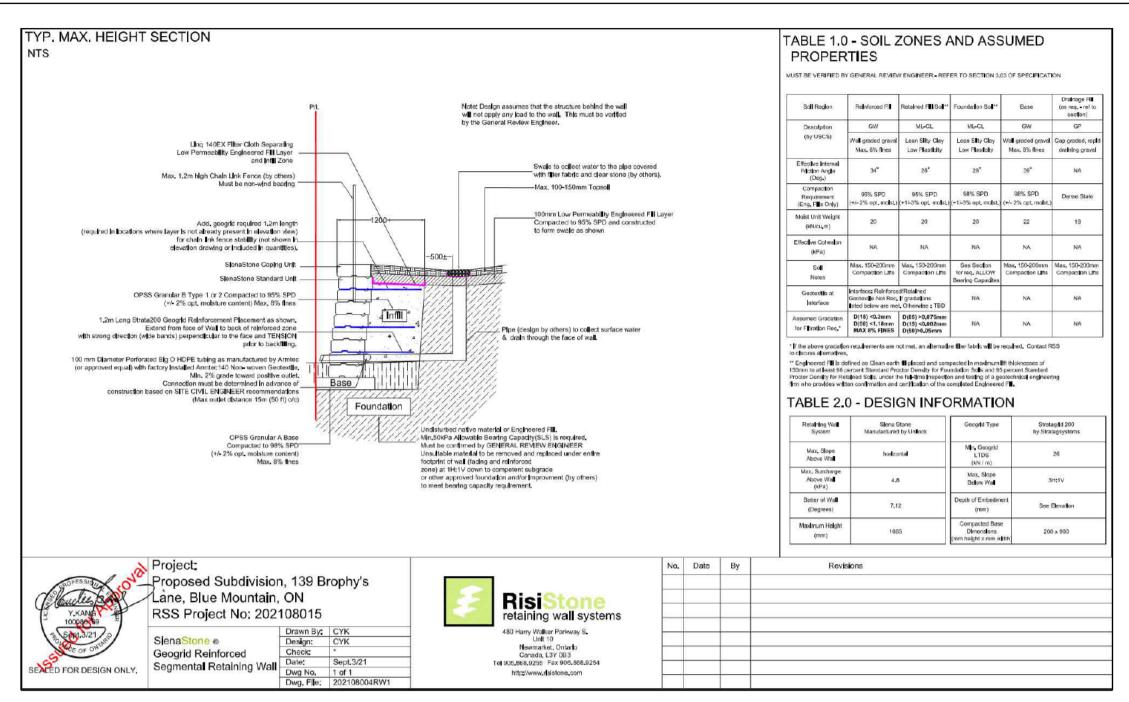
PROPOSED DETACHED RESIDENTIAL SUBDIVISION 139 BROPHY'S LANE

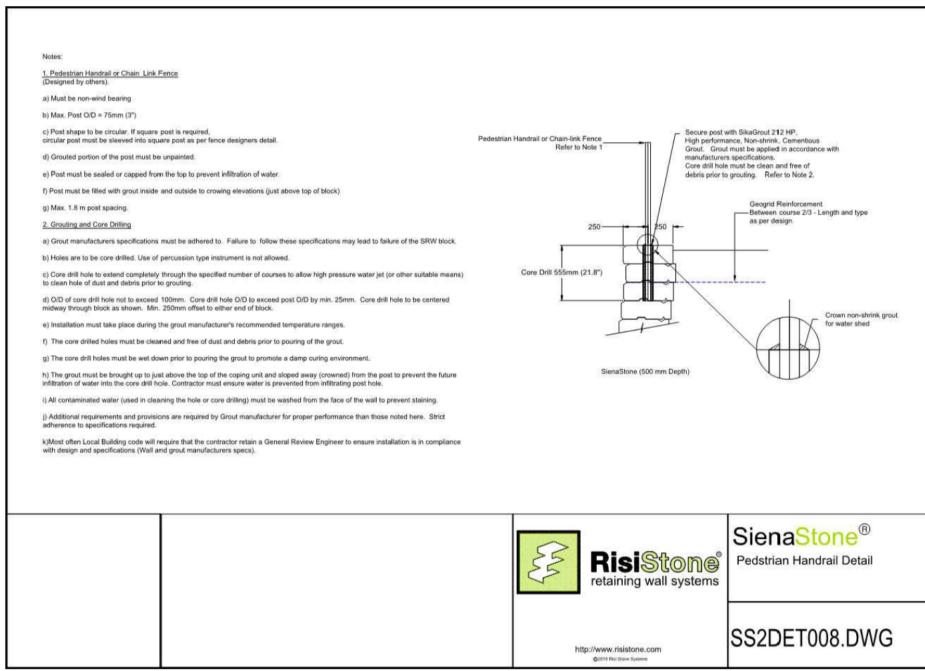
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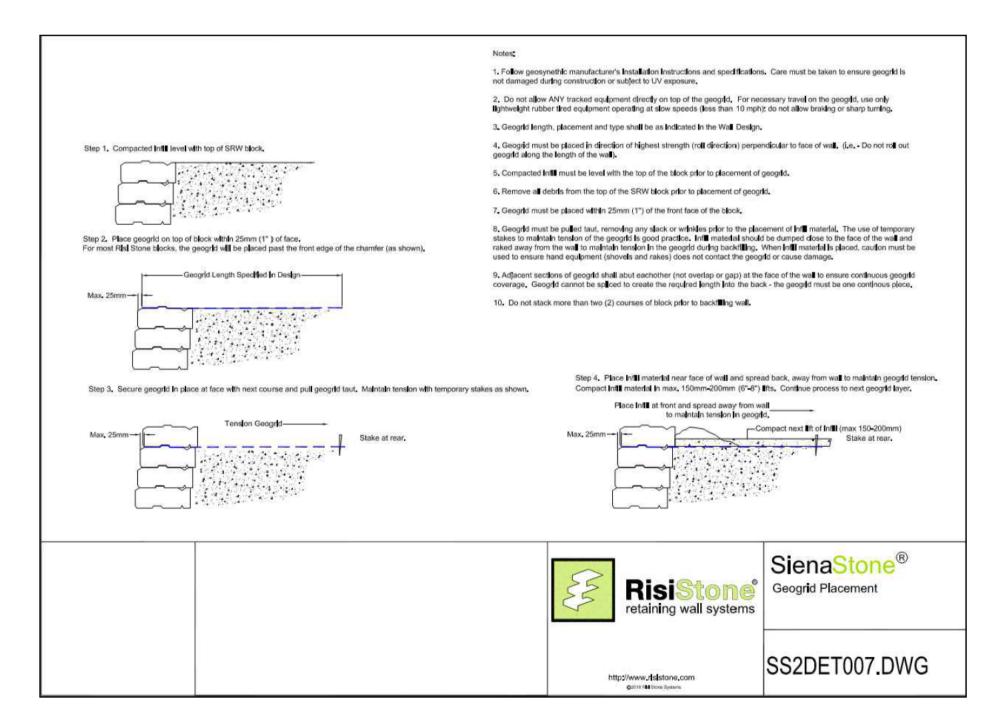
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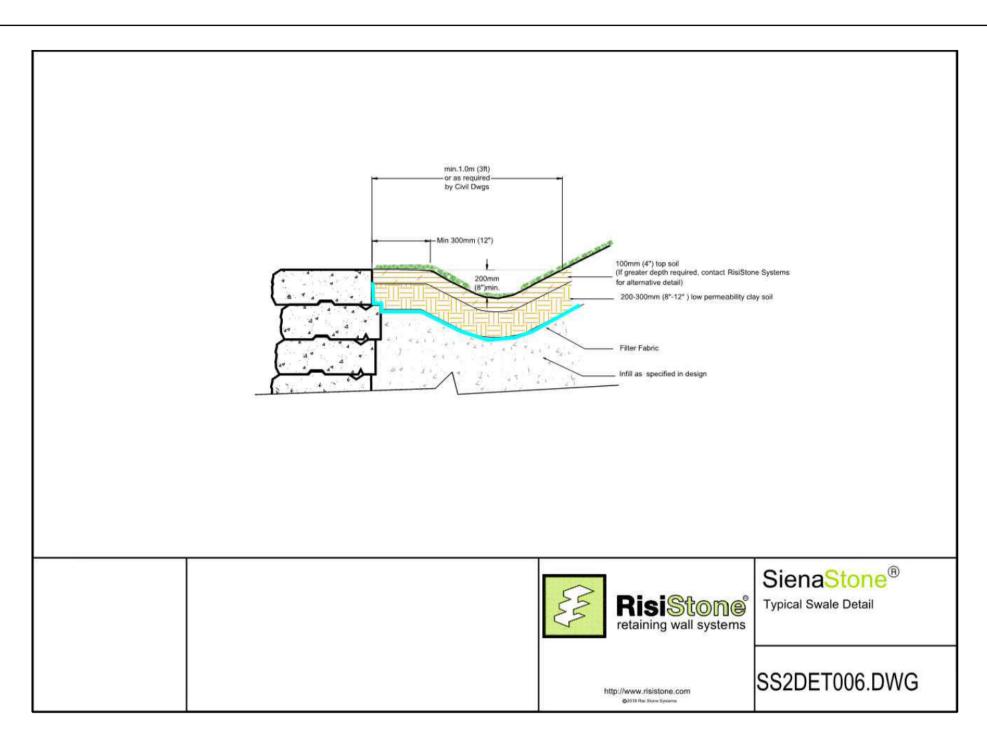
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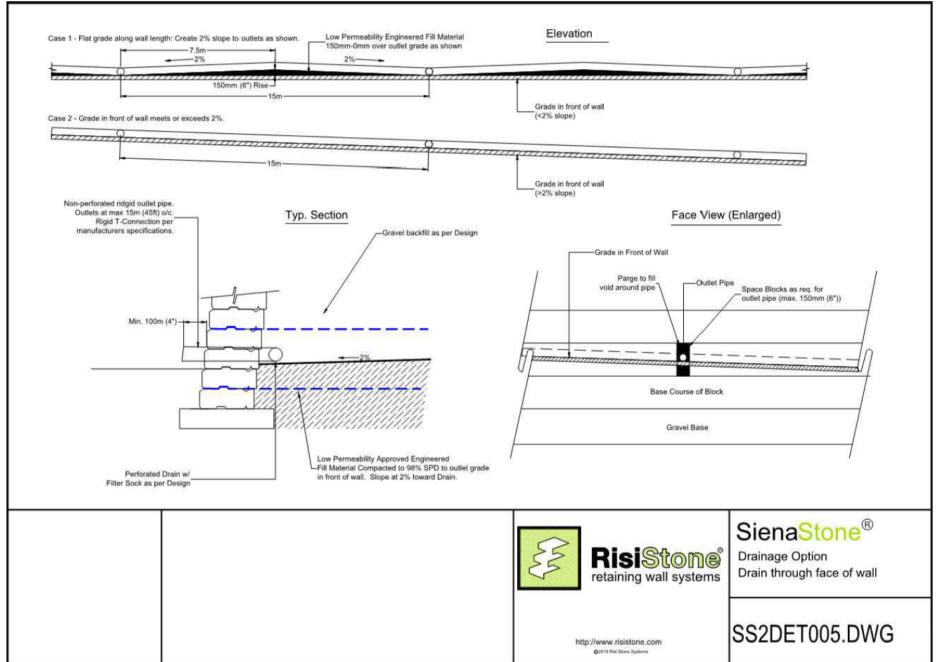
10	OWN FILE: P2452E				
DESIGN JL/JC	DATE NOVEMBER, 2020	SCALE			
DRAWN SG	PROJECT NO. 20-7031	N/	/A		
CHECKED CAB	DRAWING NO.		REV.		
APPROVED CAB	CIS		<b> </b>		

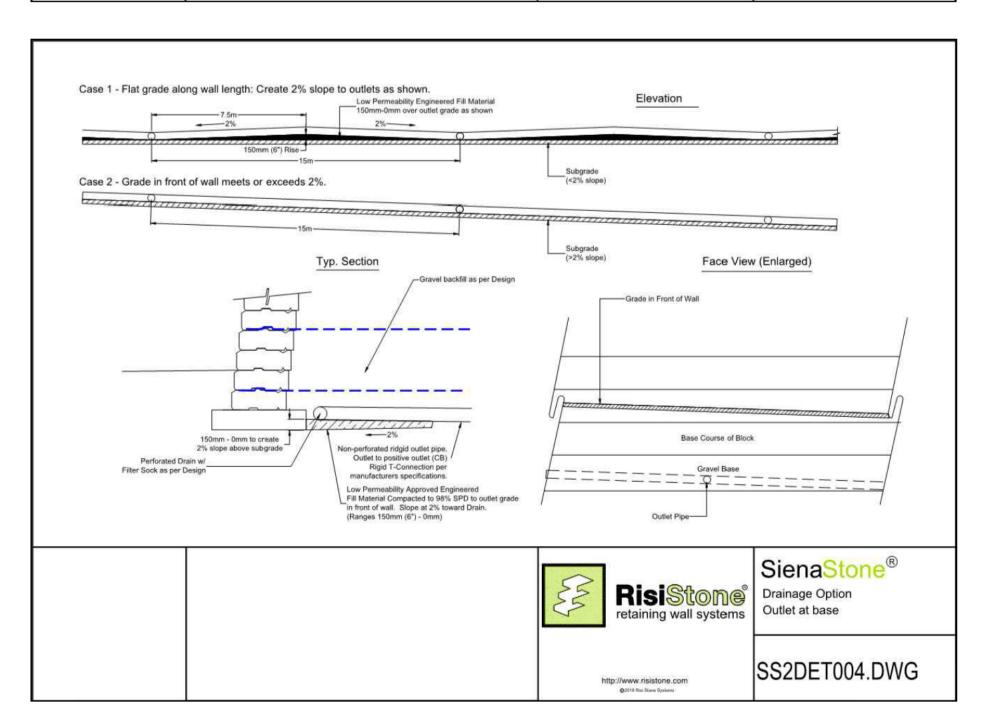


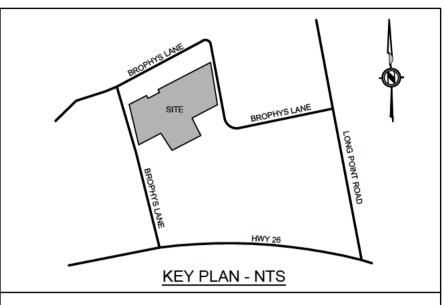












<u>LEGEND</u>

2	10/09/2021	SECOND SUBMISSION	JL/JC	CAB	
1	27/04/2021	FIRST SUBMISSION	JL/JC	CAB	aacha
ΕV	DATE	DESCRIPTION	BY	APP	Ŭ.

PART OF LOT 89, REGISTERED PLAN 529, (FORMERLY TOWNSHIP OF COLLINGWOOD),
TOWN OF THE BLUE MOUNTAINS,
COUNTRY OF GREY LEGAL DESCRIPTION ELEVATIONS ARE GEODETIC AND ARE REFERRED TO THE

BENCHMARK. BENCHMARK No. : 00119972U314, ELEVATION = 178.304m (DATUM: CGVD28: 78) BENCHMARK

ENGINEER STAMP



Aplin & Martin Consultants Ltd. 405 - 55 St. Clair Ave. West, O.N. Canada M4V 2Y7 Tel: (416) 644-1900, Fax: (416) 644-1889, Email: general@aplinmartin.com

PROJECT

L&W PROPERTIES LTD.

246 RIVERSIDE DRIVE TORONTO, ON, M6S 4A9

PROPOSED DETACHED

**RESIDENTIAL SUBDIVISION** 139 BROPHY'S LANE **BLUE MOUNTAIN, ON** 

DRAWING TITLE

# **RETAINING WALL DETAILS**

TOWN EILE, DOAFSE

10	OWN FILE: P2452E			
DESIGN JL/JC	DATE NOVEMBER, 2020	<b>,</b>		
DRAWN SG	PROJECT NO. 20-7031	N/	/A	
CHECKED CAB	DRAWING NO.		REV.	
APPROVED CAB	CIO		'	

