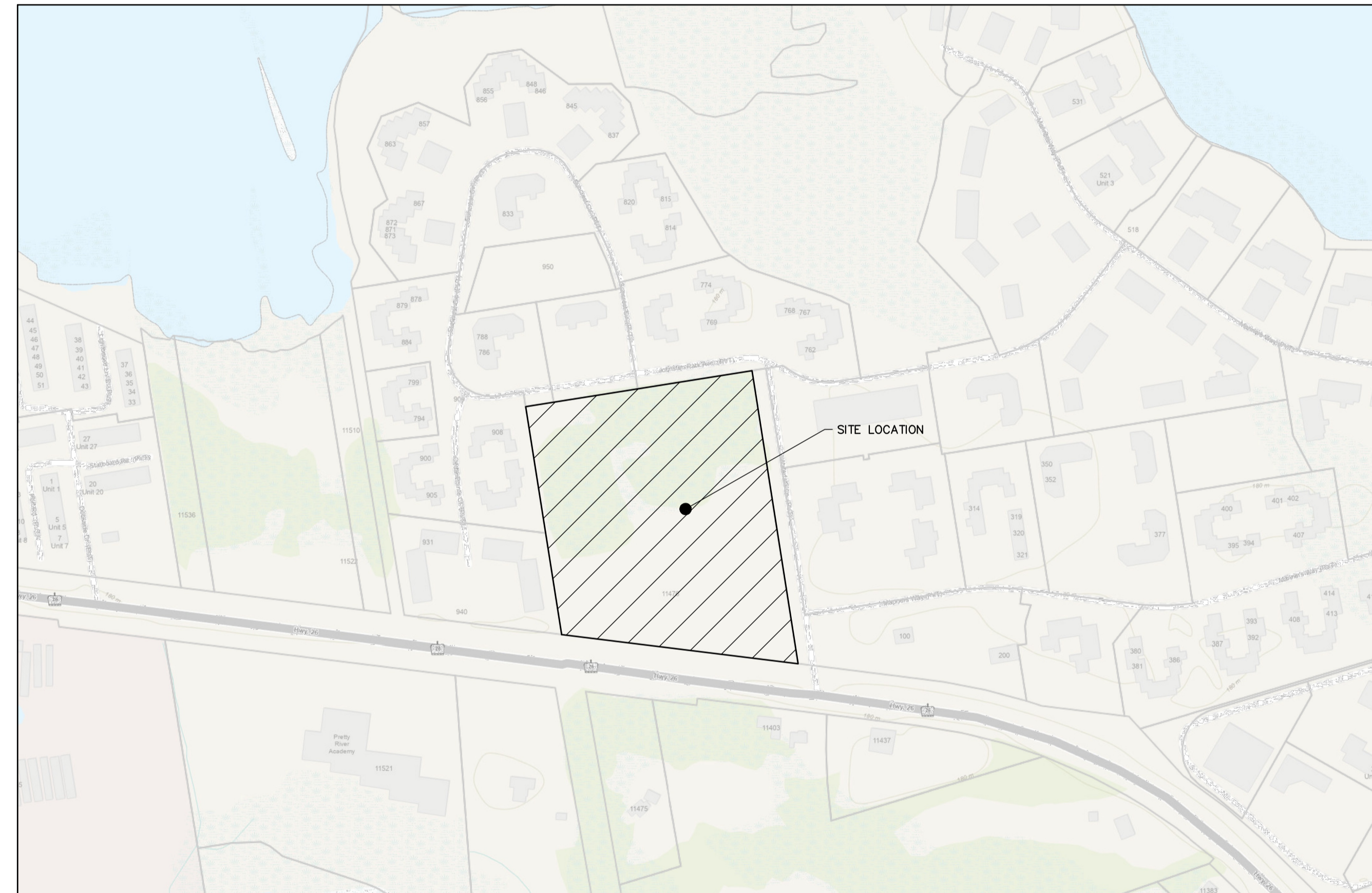


11476 HIGHWAY 26 TOWN OF COLLINGWOOD



KEY PLAN

LEGEND

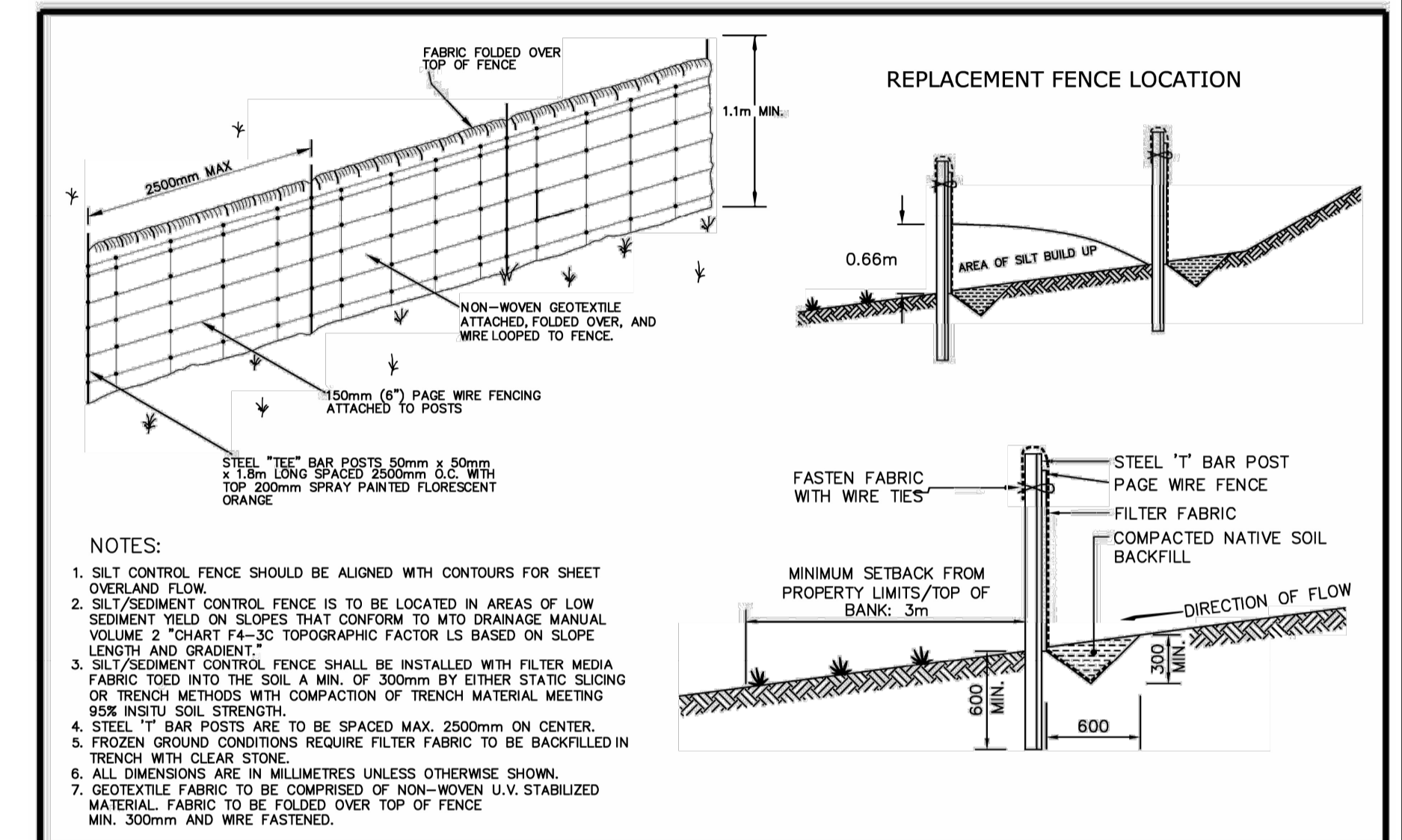
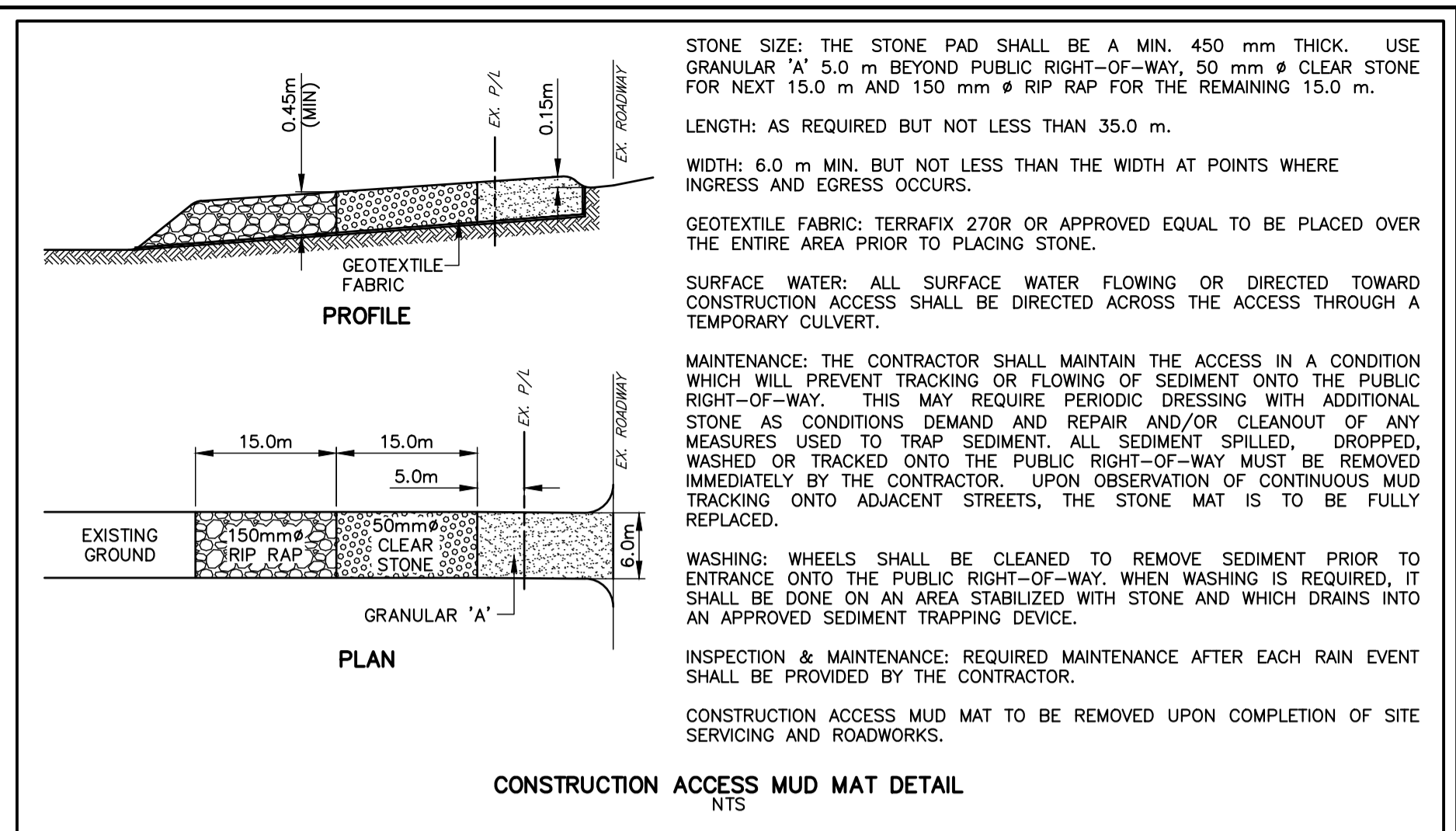
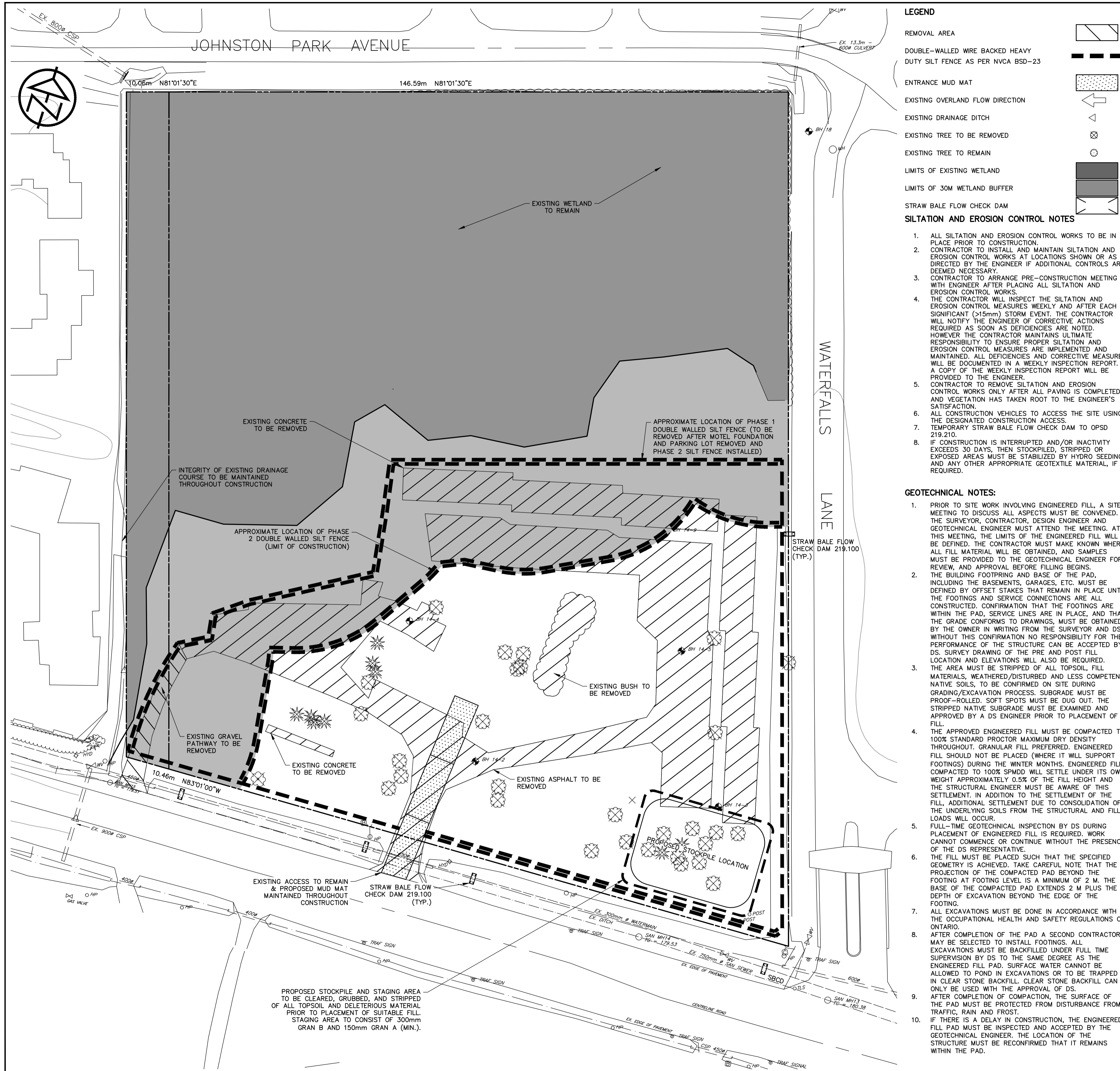
PROPERTY LINE	----
EXISTING CENTERLINE	----
PROPOSED CENTERLINE	----
EXISTING EDGE OF ASPHALT	----
PROPOSED EDGE OF ASPHALT	----
EXISTING EDGE OF SHOULDER	----
PROPOSED EDGE OF SHOULDER	----
EXISTING DITCH/DIRECTION OF FLOW	----
PROPOSED DITCH/DIRECTION OF FLOW	----
EXISTING SANITARY SEWER/SIZE/DIRECTION OF FLOW	200# SAN
PROPOSED SANITARY SEWER/SIZE/DIRECTION OF FLOW	200# SAN
EXISTING SANITARY SERVICE	----
PROPOSED SANITARY SERVICE	----
EXISTING SANITARY FORCEMAIN/SIZE/DIRECTION OF FLOW	200# SAN F/M
EXISTING WATERMAIN/SIZE	150# W/M
PROPOSED WATERMAIN/SIZE	150# W/M
EXISTING WATER SERVICE	----
PROPOSED WATER SERVICE	----
EXISTING STORM SEWER/SIZE/DIRECTION OF FLOW	375# STM
PROPOSED STORM SEWER/SIZE/DIRECTION OF FLOW	375# STM
EXISTING CULVERT	----
PROPOSED CULVERT	----
PROPOSED SWALE LOCATION	----
PROPOSED JOINT HYDRO, BELL AND ROGERS	----
EXISTING GAS MAIN	----
PROPOSED GAS MAIN	----
EXISTING FENCELINE	----
PROPOSED FENCELINE	----
EXISTING BUSHLINE	----
EXISTING CONTOUR	179.00
EXISTING SPOT ELEVATION	x 179.00
PROPOSED SPOT ELEVATION	x 179.00
EXISTING GRADING DIRECTION	----
PROPOSED GRADING DIRECTION	----
PROPOSED REAR YARD OVERFLOW ROUTE	----
PROPOSED SWALE LOCATION	----
EXISTING TEMPORARY BENCHMARK	• TEM
EXISTING STANDARD IRON BAR	• SIB
EXISTING BOREHOLE/NUMBER	• BH#
EXISTING HYDRO TRANSFORMER	• HT
EXISTING CABLE PEDESTAL	• CP
EXISTING BELL PEDESTAL	• BP
EXISTING BELL MAINTENANCE HOLE	○ BELL MH
EXISTING BELL POLE	○ BP
EXISTING HYDRO POLE	○ HP
EXISTING HYDRO GUY WIRE	—
PROPOSED WALL MOUNTED LIGHT	• L
PROPOSED HYDRO PEDESTAL	• HP
PROPOSED ROGERS BOX	• RB
PROPOSED BELL PEDESTAL	• BP
PROPOSED BELL HAND WELL	• BH
EXISTING DECIDUOUS TREE	•
EXISTING CONIFEROUS TREE	•
EXISTING SANITARY MAINTENANCE HOLE/NUMBER	○ SAN MH17
PROPOSED SANITARY MAINTENANCE HOLE/NUMBER	● SAN MH17
EXISTING HYDRANT AND VALVE	• HYD & WV
PROPOSED HYDRANT AND VALVE	• HYD & WV
EXISTING WATER VALVE	• WV
PROPOSED WATER VALVE	• WV
PROPOSED CURB STOP VALVE	• CSV
EXISTING STORM MAINTENANCE HOLE	○ STM MH20
PROPOSED STORM MAINTENANCE HOLE/NUMBER	● STM MH9
EXISTING CATCH BASIN	□ CBM# 18
PROPOSED CATCH BASIN	■ CB
PROPOSED CATCH BASIN MAINTENANCE HOLE/NUMBER	○ CBM#12
PROPOSED PARKING SPACE	①
PROPOSED STRAW BALE CHECK DAM	▬ SB

DRAWING LIST

Sheet Number	Drawing	Description
1	120232-TP-1	TITLE PAGE
2	120232-EC-1	EROSION CONTROL AND CONSTRUCTION COORDINATION PLAN
3	120232-SSG-1	SITE GRADING & SERVICING PLAN
4	120232-DE-1	DETAILS AND NOTES



THIRD SUBMISSION
Contract No. : 120232



Nottawasaga Valley Conservation Authority		APR'D:	DATE: 03.06.24		
TYPICAL DETAIL OF SILT/SEDIMENT FENCE		DRAWN: A.S.C	SCALE: NTS		
NO.	REVISION	APR'D	DATE		
			BSD-23		
PERIOD	MONITORING LOCATION	PARAMETERS	MONITORING FREQUENCY	TRIGGER FOR MITIGATION	MITIGATION MEASURES/COMMENTS
Pre-Construction	Dewatering Discharge	PWQO Metals	Once during trial dewatering	Exceeds the PWQO	Modify treatment method and/or shut down.
During Construction	Dewatering Discharge	PWQO Metals	Weekly, then every four weeks after three consecutive weekly compliant samples	Exceeds the PWQO	Modify/change treatment method and/or shut down.
		Turbidity	Daily until stable, then weekly. Minimum of five samples	Exceeds 35 NTU	Reduce pumping and/or improve sediment/erosion control measures
	Discharge Point	Impact Assessment	At each sampling event	Sedimentation, erosion	Reduce pumping and/or improve sediment/erosion control measures
	On-site monitoring wells	Water level meter	Every two weeks	Water level to be no more than 1 m lower than proposed depth of excavation	Reduce pumping
	Wetland Piezometers P21 and P22	Water level	Weekly, then every four weeks after three consecutive weekly compliant samples	Water level in P21 at or below 0.1 m bgs (elevation 177.8 m asl).	LGL will be notified within 6 hours of noting water levels below the trigger limit. Mitigation measures will be discussed and approved by LGL and Tatham within 24 hours of noting water levels below the trigger limit. Potential mitigation measures could include a reduced dewatering pumping rate, the re-direction of treated dewatering discharge to feature, and/or ultimately the cessation of dewatering efforts. Tatham will provide recommendation to the dewatering contractor with 24 hours of noting water levels below the trigger limit.
	On-site monitoring wells	Water level meter	Every two weeks for four weeks, then every four weeks until 90% recovery	Water level recovery less than 90% of baseline level	Continue monitoring
Post-Construction	Wetland Piezometers	Water level meter	Every two weeks for four weeks, then every four weeks until 90% recovery	Water level recovery less than 90% of baseline level	Continue monitoring

- 11. CONTRACTORS TO HAVE COPIES ON SITE OF FOLLOWING REPORTS FOR REFERENCE:**
- CONSTRUCTION MANAGEMENT PLAN
 - WATER TAKING & DISCHARGE PLAN
 - SOIL MANAGEMENT PLAN
 - GEOTECHNICAL INVESTIGATION
 - HYDROGEOLOGICAL INVESTIGATION
- ADJACENT PROPERTY IMPACT NOTES:**
- PRIOR TO ANY WORK BEING UNDERTAKEN, THE CONTRACTOR SHALL OBTAIN AND PAY FOR A ROAD OCCUPANCY PERMIT FROM THE TOWN. THE PERMIT SHALL BE TAKEN OUT IN THE NAME OF CONTRACTOR.
 - ALL ADJACENT PROPERTIES DISTURBED BY THE CONSTRUCTION SHALL BE NOTIFIED BY LETTER DELIVERED DIRECTLY TO ADJACENT PROPERTY OWNERS.
 - THE CONTRACTOR WILL PROVIDE WEEKLY CONSTRUCTION UPDATES AS THEY RELATE TO STREET CLOSURES, LARGE DELIVERIES, GARBAGE COLLECTION AND/OR ANY POTENTIAL DISTURBANCES TO THE COMMUNITY.

DISCLAIMER AND COPYRIGHT

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TATHAM ENGINEERING LIMITED CLAIMS COPYRIGHT TO THIS DRAWING WHICH MAY NOT BE USED FOR ANY PURPOSE OTHER THAN THAT PROVIDED IN THE CONTRACT BETWEEN THE OWNER/CLIENT AND THE ENGINEER WITHOUT THE EXPRESS CONSENT OF TATHAM ENGINEERING LIMITED.

BENCHMARKS

TBM1 - ELEVATION 179.57
NAIL SPIKE IN HYDRO POLE ON NORTH SIDE OF HIGHWAY 26 WEST OF THE EXISTING ASPHALT ENTRANCE.

TBM2 - ELEVATION 179.56
NAIL SPIKE IN HYDRO POLE ON NORTH SIDE OF HIGHWAY 26 EAST OF THE EXISTING ASPHALT ENTRANCE.

NOTES

- LEGAL AND TOPOGRAPHIC SURVEY INFORMATION PROVIDED BY VAN HARTEN SURVEYING INC., MARCH 22, 2023.

No.	REVISION DESCRIPTION	DATE	ENGINEER STAMP
1.	FIRST SUBMISSION	FEB/2023	
2.	NVCA (SECOND) SUBMISSION	JUN/2025	
3.	ZONING APPLICATION	APR/2026	

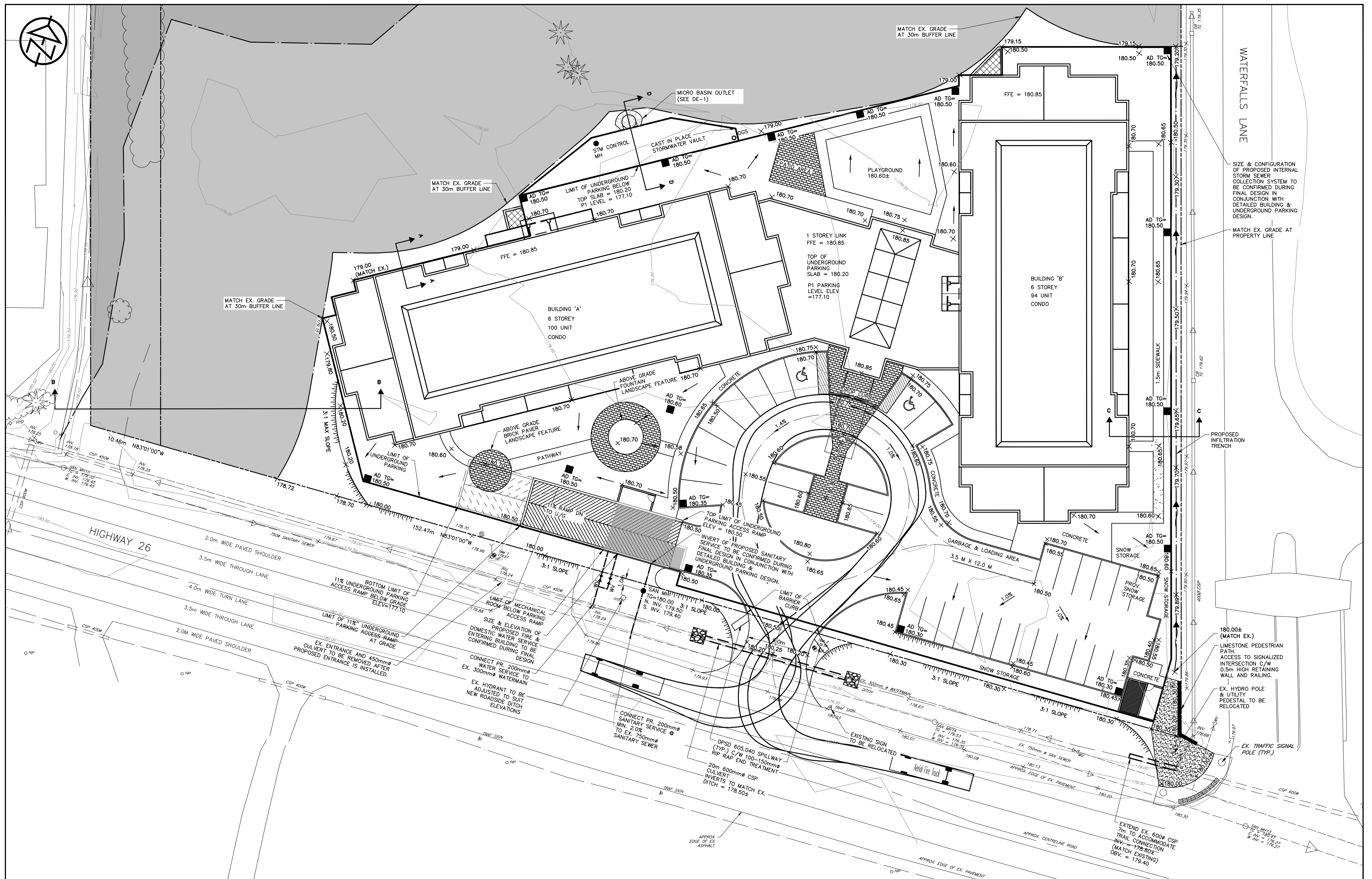
11476 HIGHWAY 26 TOWN OF COLLINGWOOD

EROSION CONTROL AND CONSTRUCTION COORDINATION PLAN

DESIGN: KRS/KRL
FILE: 120232
DRAWN: KRL/NAM
CHECK: KRS

DATE: OCT 2022
SCALE: 1:500

EC-1



WATERFALLS LANE

SIZE & CONFIGURATION OF PROPOSED INTERNAL STORM SEWER COLLECTION SYSTEM TO BE CONFIRMED DURING FINAL DESIGN IN CONJUNCTION WITH DETAILED BUILDING & UNDERGROUND PARKING DESIGN.

MATCH EX. GRADE AT PROPERTY LINE

PROPOSED INFILTRATION TRENCH

180.00± (MATCH EX.) LIMESTONE PEDESTRIAN PATH. ACCESS TO SIGNALIZED INTERSECTION C/W 0.5m HIGH RETAINING WALL AND RAILING.

EX. HYDRO POLE & UTILITY PEDESTAL TO BE RELOCATED

EX. TRAFFIC SIGNAL POLE (TYP.)

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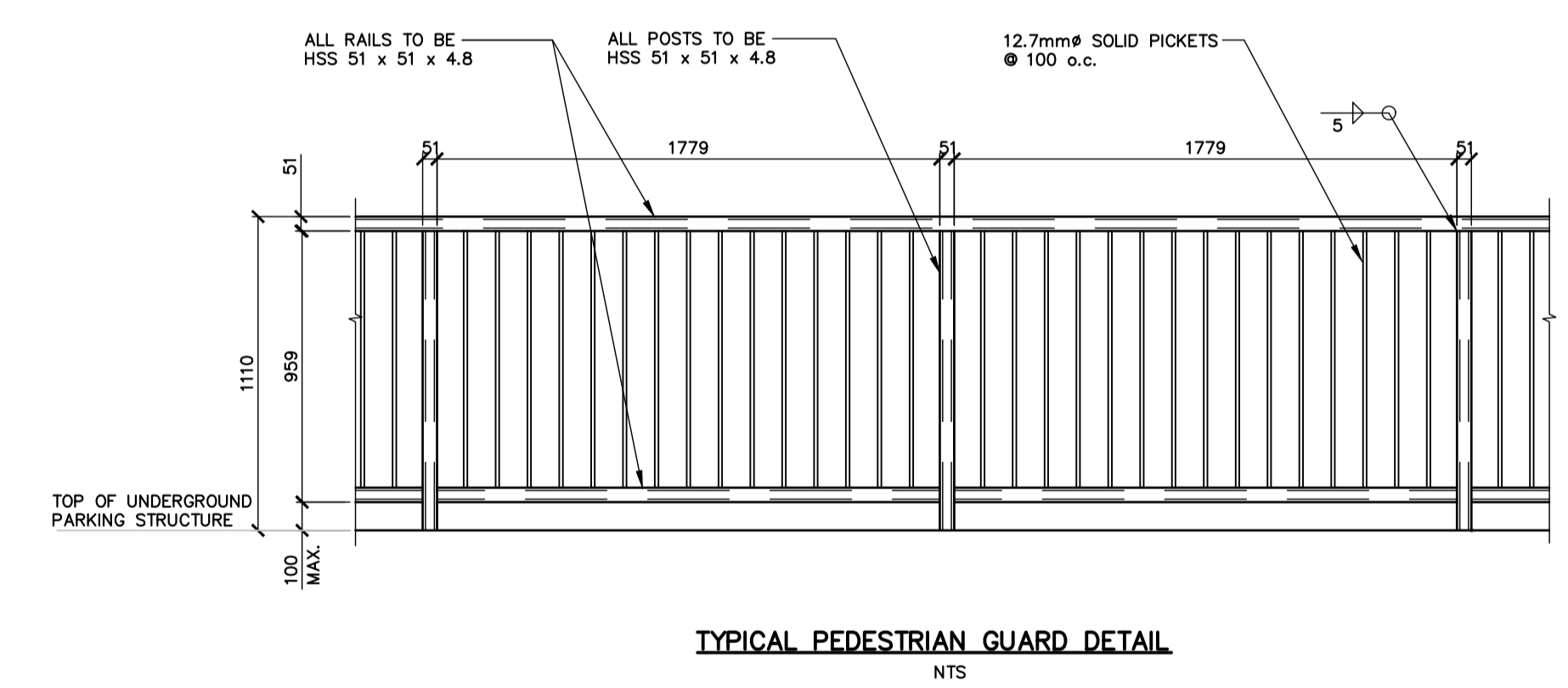
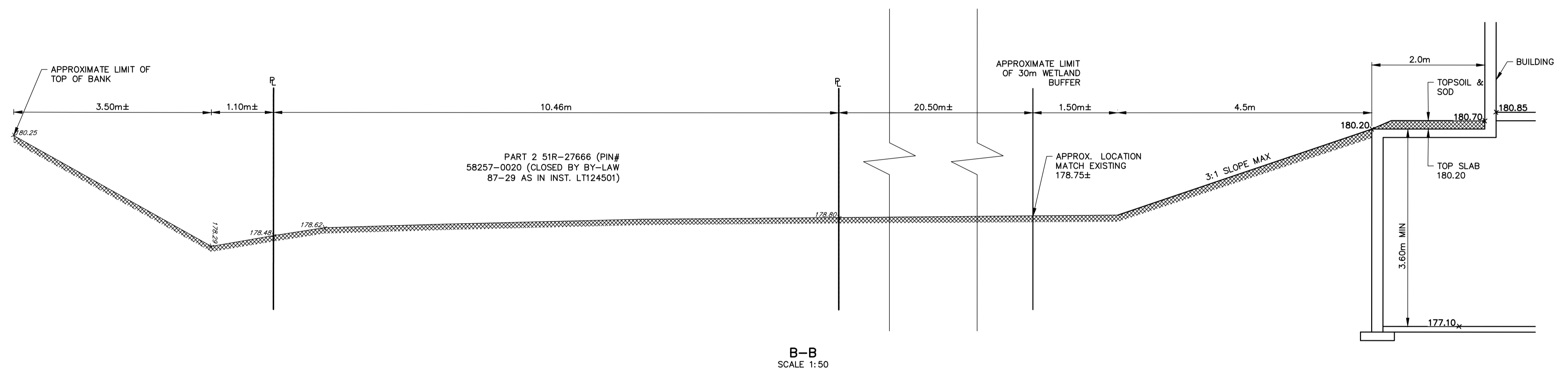
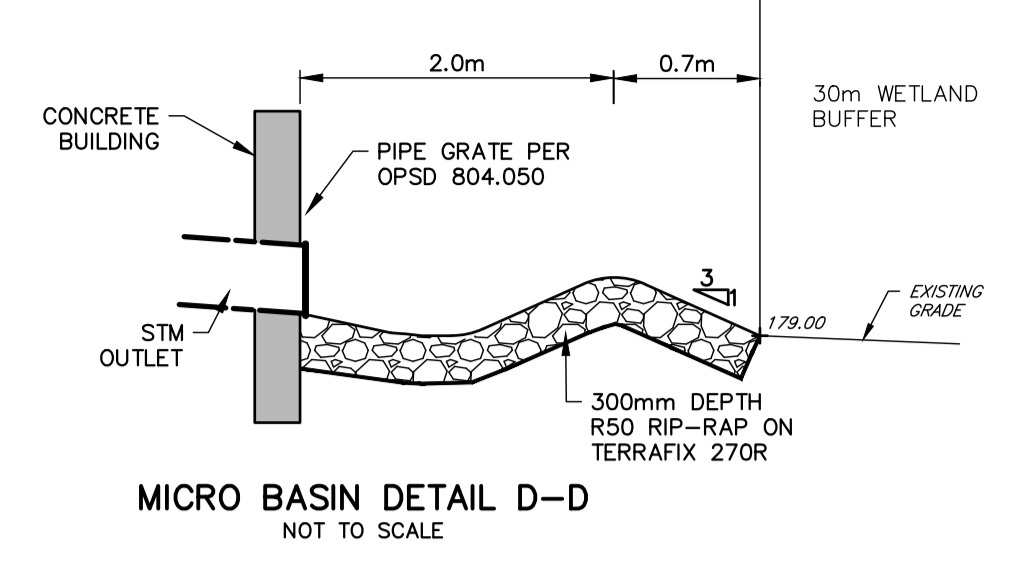
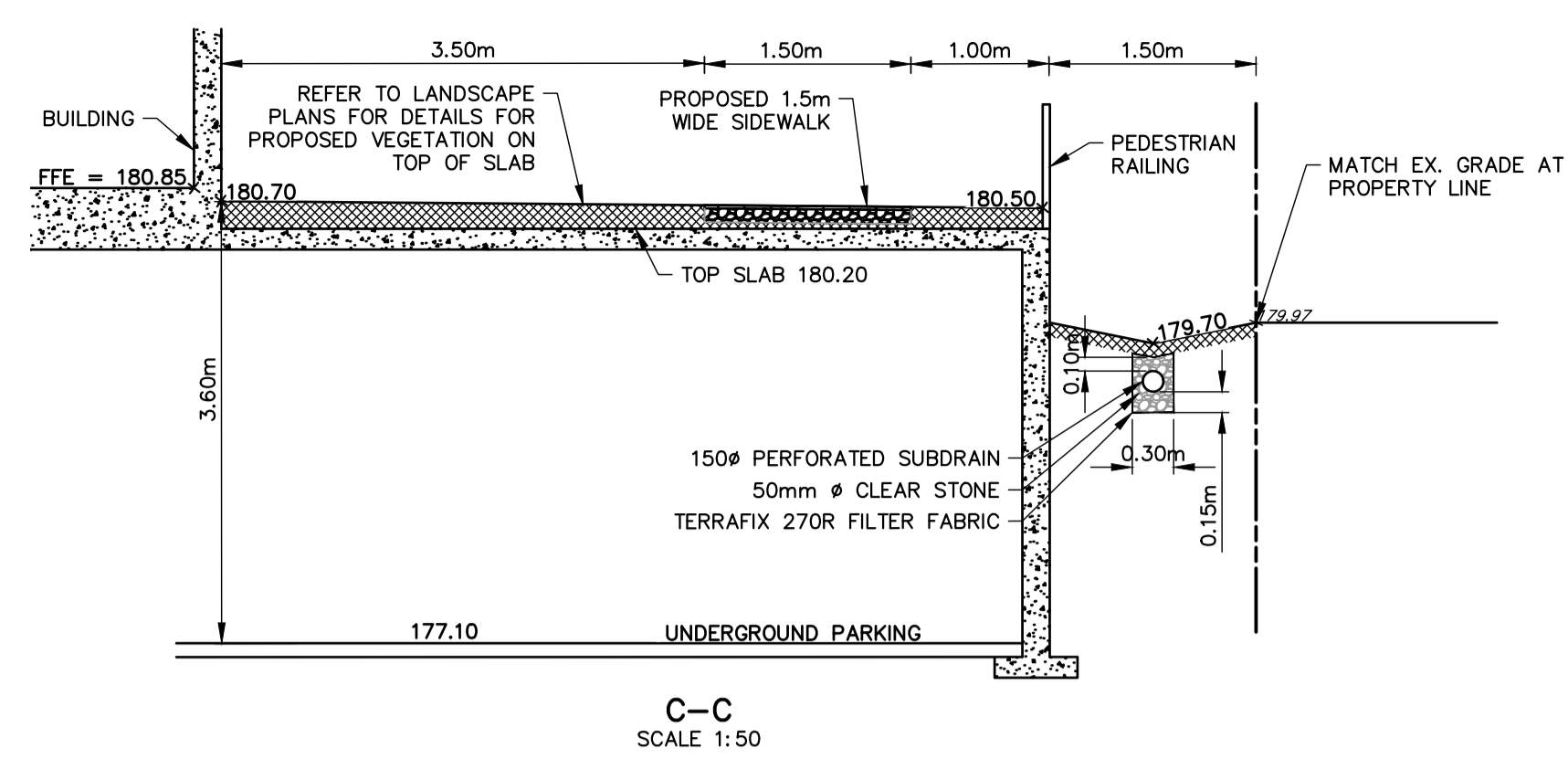
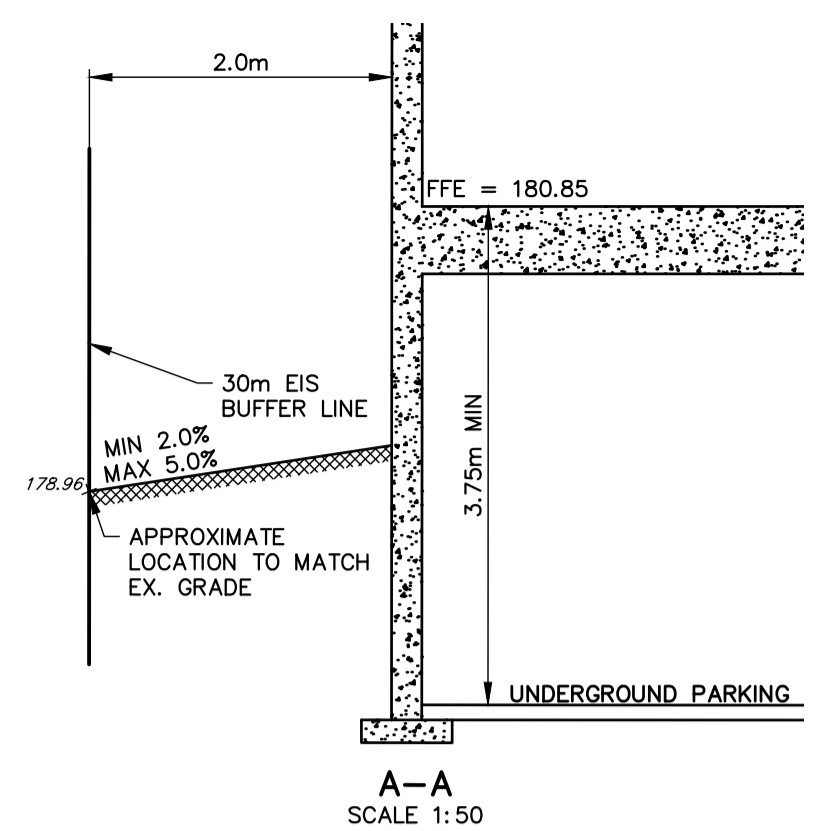
K. R. SANSOM
 K. R. SANSOM
 PROFESSIONAL ENGINEER
 PROVINCE OF ONTARIO

**11476 HIGHWAY 26
 TOWN OF COLLINGWOOD**

**SITE GRADING &
 SERVICING PLAN**

TATHAM ENGINEERING

DESIGN: KRS/KRL FILE: 120232 DWG:
 DRAWN: KRL/NAM DATE: OCT 2022 **SSG-1**
 CHECK: KRS SCALE: 1:250



- GENERAL NOTES**
- POSTS SHALL BE CONNECTED TO TOP OF UNDERGROUND PARKING STRUCTURE.
 - ANCHORS SHALL BE INSTALLED ACCORDING TO MANUFACTURER'S SPECIFICATIONS.
 - POSTS AND RAILINGS SHALL BE HOT DIP GALVANIZED ACCORDING TO ASTM A123 AFTER FABRICATION.
 - POSTS SHALL BE VERTICAL. ALL EXPOSED CORNERS SHALL BE GROUND SMOOTH.
 - WELDING SHALL BE ACCORDING TO CSA W59.
 - PROVIDE TWO COATS OF GALVAFROD FOR ALL JOINTS THAT ARE FIELD WELDED.
 - ALL STEEL SHALL BE ASTM A500 GRADE C.
 - CONTRACTOR IS TO VERIFY ALL DRAWING MEASUREMENTS IN THE FIELD.
 - PEDESTRIAN GUARD HAS BEEN DESIGNED IN ACCORDANCE WITH CBC 4.1.5.14 - LOADS ON GUARDS.

- NOTES:**
- GENERAL**
 - All work to be carried out in accordance with Town of Collingwood Standards and OPS Standards, where conflict occurs, most stringent standard to govern.
 - All topsoil and excess earth excavation to be removed to an approved site as approved by the engineer.
 - The owners Engineer shall provide benchmark elevations for the contractor. The contractor shall be responsible for the detailed layout of the work.
 - All property bars to be preserved and replaced by OLS at contractor's expense if removed during construction.
 - The contractor shall make his own arrangements for the supply of temporary water and power.
 - Dewatering to be carried out in accordance with OPSS-517 and 518. Maintain all trenches in a dry condition.
 - All engine driven pumps to be adequately silenced, suitable for operation in a residential district.
 - Backfill and embedment material to be compacted to a dry density of at least 95% of the material's standard proctor maximum dry density (SPMDD). Backfill and embedment to OPSD-802.010, granular 'A' embedment.
 - Backfill to be select native material as approved by the engineer or imported select subgrade material to OPSS 1010. Backfill to be placed in maximum 200 mm thick lifts.
 - Disturbed areas to be reinstated to previous condition or better.
 - Reinstatement of all disturbed boulevards and ditches to include re-grading and 150 mm topsoil and sod all in accordance with OPSS.MUNI 802 & 803.
 - The contractor is responsible to notify all utility companies prior to commencing work and coordinate construction accordingly.
 - PARKING LOT REINSTATEMENT**
 - Subgrade and boulevard material to be compacted to a minimum dry density of at least 95% of the material's standard proctor maximum dry density (SPMDD).
 - Granular 'A' and 'B' to be compacted to 100% of the material's respective standard proctor maximum dry density (SPMDD).
 - Roadways and parking areas to be reinstated with min. 300 mm granular 'B' type 1, 150 mm granular 'A', 50 mm HL8 base and 40 mm HL3 surface course asphalt.
 - Joints with existing asphalt within site to be saw cut straight prior to placing new asphalt. Provide a lap joint on Town ROW where applicable.
 - All asphalt material and placement to be in accordance with OPSS-310.
 - Concrete barrier curb to OPSD 600.110.
 - Concrete sidewalk to OPSD 310.010, 310.020 and 310.033.
 - Tactile plates to OPSD 310.039.
 - Culvert installation to OPSS 421.
 - WATER MAIN**
 - All ductile iron water main to OPSD 802.030 Class B bedding, (granular 'A' bedding material). All PVC water main to OPSD 802.010, granular 'A' embedment.
 - Thrust protection for bends and fittings to include both restrainers (Romac grip ring) and thrust blocks to OPSD-1103.010 and 1103.020.
 - General installation and testing of water main and appurtenances to be in accordance with OPSS 441 and all specifications referenced within those sections.
 - Method for testing (pressure, chlorination and bacteriological) shall be completed to the satisfaction of the Town.
 - All testing to be completed (pressure, chlorination and bacteriological) to the satisfaction of the Town before final connection is made to the existing water main.
 - Minimum cover on water main to be 1.7 m unless otherwise specified.
 - Clearance between water main and sewer to be a minimum of 0.5 m vertical where water main is below sewer or 2.5 m minimum horizontal separation. Where water main is above sewer, the minimum separation to be 150 mm (bedding material).
 - MATERIALS**
 - Water main on Town ROW - ductile iron class 52, cement lined. Conductivity connectors to be used on all joints as per manufacture recommendation. Mechanical joints to AWWA/ANSI C153/A21.53
 - Water main on private lands - PVC DR18
 - Hydrants - Century number 1, open left (o/l), 2 hose CSA, 33 pumper port, 6" MJ base, draining, yellow base with silver bonnet and ports.
 - Valves - resilient seated, RSGV, mechanical joint, open left Clow or Mueller with 5 sl-48 sliding valve box.
 - Mechanical joint ductile fittings - AWWA/ANSI C153/A21.53
 - Restrainer - Romac grip ring or approved equivalent.
 - Tracer wires-12 AWG TMI, connectors to be approved by the engineer.
 - Storm Sewer - PVC DR35, smooth wall HDPE (Boss 2000) with Bell and Spigot (min. pipe stiffness = 320kPa), concrete or approved equal.
 - Storm service connections to be PVC DR 28, colour white.
 - Subdrain to be Big 'O' with geotextile filter sock or approved equivalent.
 - Filter Fabric - Terrafix 270R or approved equal.
 - All specific aggregates to OPSS 1010.

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ENGINEER STAMP

11476 HIGHWAY 26
TOWN OF COLLINGWOOD

DETAILS PLAN

TATHAM ENGINEERING

DESIGN: KRS/KRL FILE: 120232 DWG: **DE-1**
DRAWN: KRL/NAM DATE: OCT 2022
CHECK: KRS SCALE: 1:25