

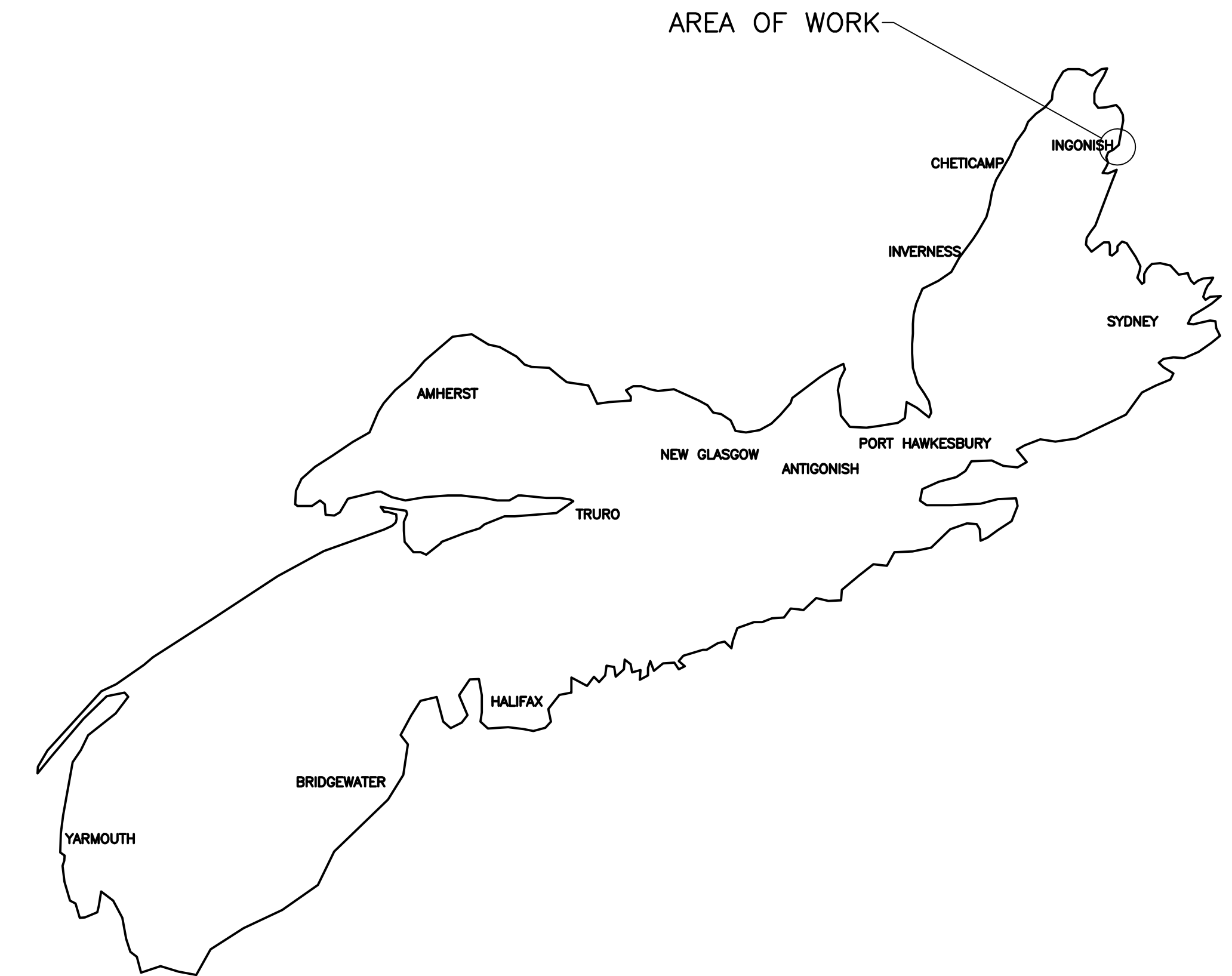


Parcs
Canada

Parks
Canada

CAPE BRETON HIGHLANDS NATIONAL PARK BROAD COVE BIN WALL REMEDICATION NOVA SCOTIA

PROJECT NO. 2039



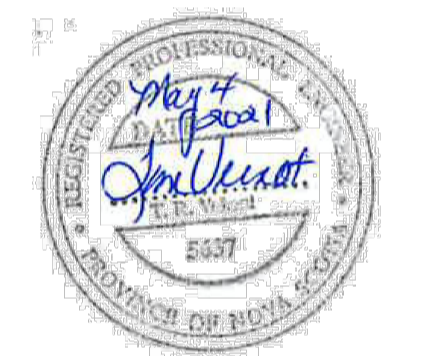
DRAWING LIST

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- C02 DISPERSION SYSTEM LAYOUT
- C03 BIN WALL SLOPE STABILIZATION SITE PLAN
- C04 SLOPE STABILIZATION SECTIONS
- C05 DISPERSION FIELD SURFACE GRADING
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LANDSCAPING

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- L02 BIN WALL SLOPE STABILIZATION PLANTING PLAN
- L02 BIN WALL SLOPE STABILIZATION PLANTING PLAN



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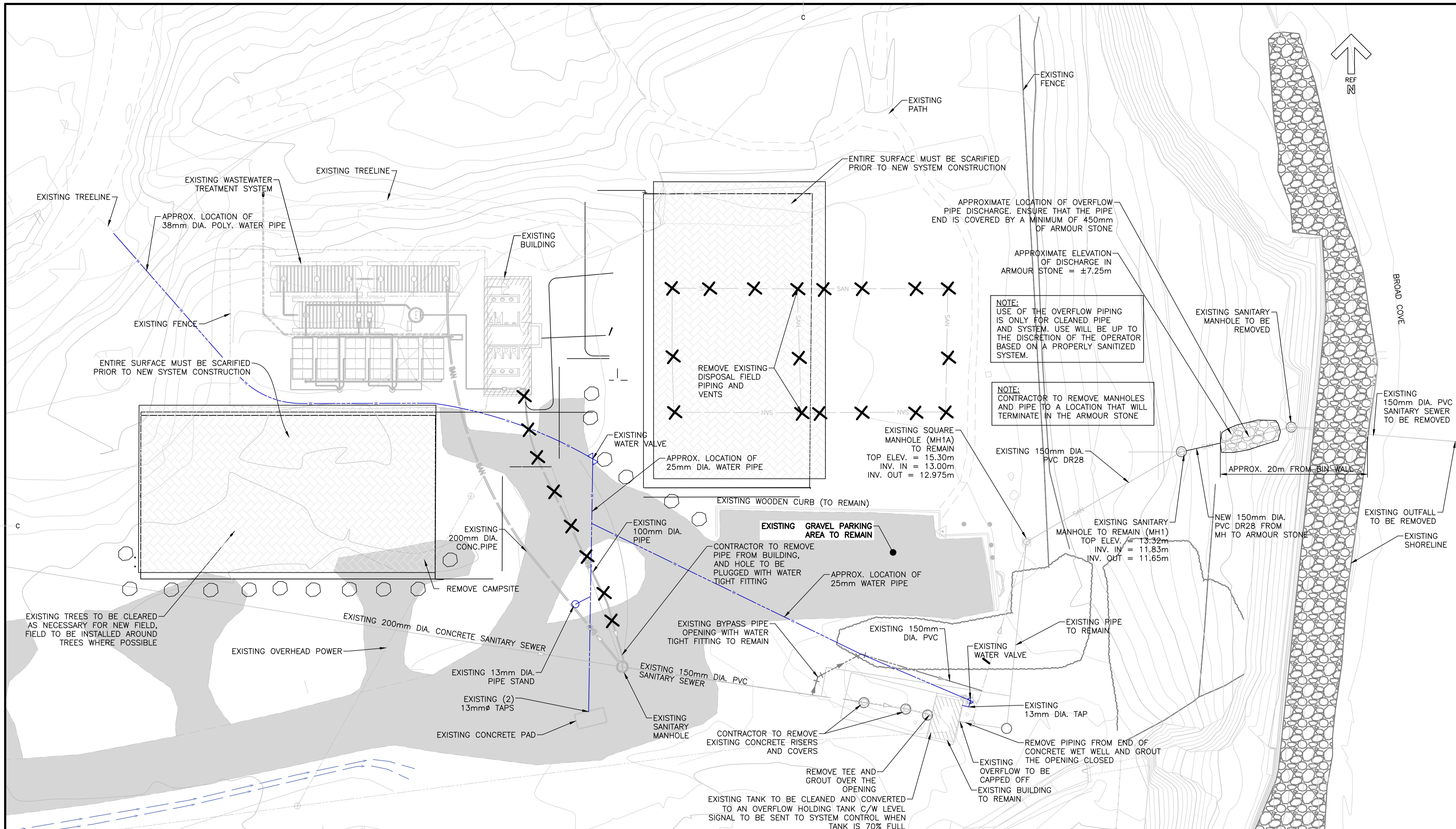
CAPE BRETON HIGHLANDS NATIONAL PARK
BROAD COVE BIN WALL REMEDIATION

drawing dessin

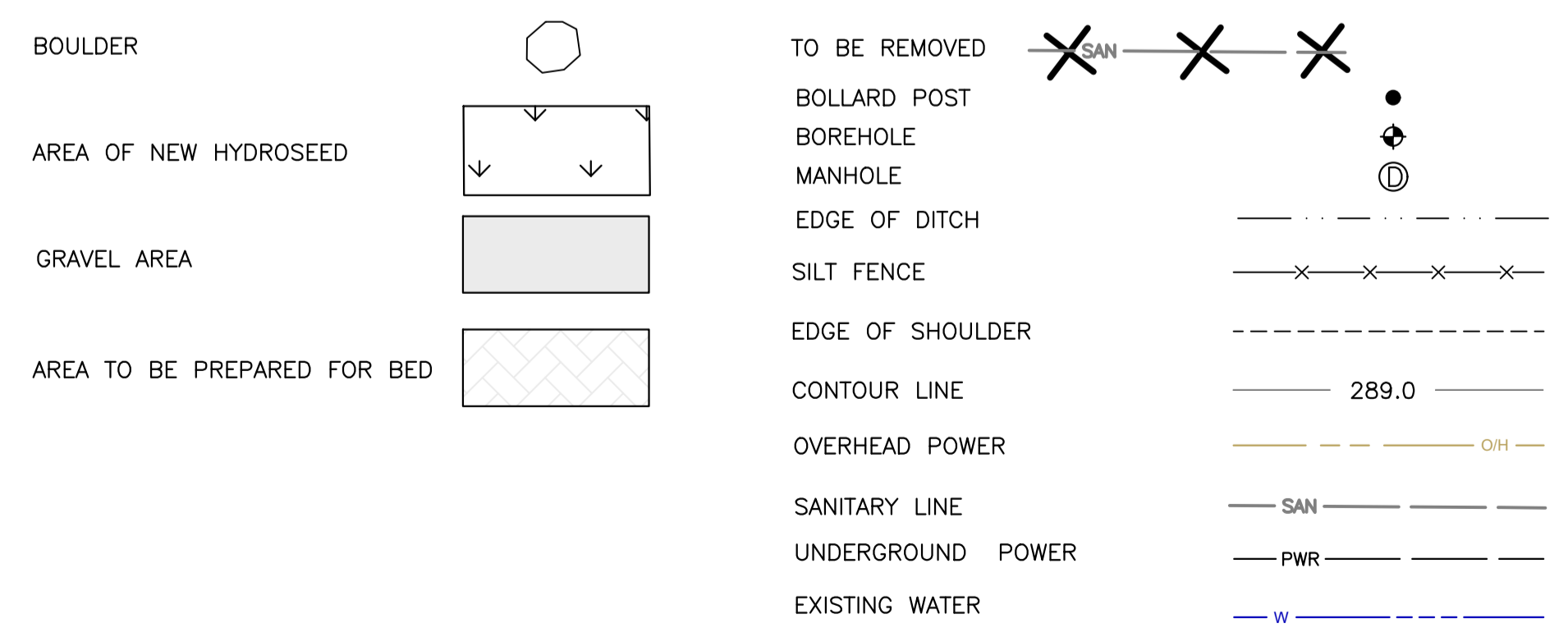
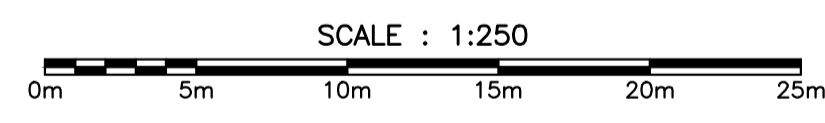
EXISTING SEPTIC FIELD REMOVALS PLAN

designed	J. BABIN P. ENG	conçu
date	DECEMBER 6 2019	
drawn	A. CALDWELL P. TECH	dessiné
date	DECEMBER 6 2019	
approved	J. BABIN P. ENG	approuvé
date	DECEMBER 6 2019	
Tender		Soumission
PWGSC Project Manager	Administrateur de projets TPSGC	
project number		no. du projet

2039
drawing no. C01 no. du dessin



- NOTES:
1. THE CONTRACTOR IS RESPONSIBLE TO CONFIRM LOCATION OF ALL UNDERGROUND INFRASTRUCTURE IN PROPOSED WORK AREAS INCLUDING BUT NOT LIMITED TO WATER, SANITARY, STORM, ELECTRICAL, COMMUNICATIONS, ETC. SERVICES.
 2. THE CONTRACTOR IS RESPONSIBLE FOR EROSION AND SEDIMENTATION CONTROL, DUST CONTROL, MUD AND DIRT REMOVAL ON ROADWAYS AND GRAVEL MAINTENANCE, AS PER SPECIFICATION, FOR THE DURATION OF THE PROJECT.
 3. ALL APPLICABLE MUNICIPAL PERMITS MUST BE OBTAINED BY CONTRACTOR IN ADVANCE OF CONSTRUCTION.
 4. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO HAVE ALL INFRASTRUCTURE, LOCATED IN THE FIELD BY UTILITY OWNERS PRIOR TO THE START OF ANY EXCAVATION ACTIVITIES.
 5. ALL APPLICABLE MUNICIPAL BY-LAWS, PROVINCIAL AND FEDERAL STATUTES AND REGULATIONS MUST BE ADHERED TO.
 6. CONTRACTOR IS RESPONSIBLE TO TAKE ALL NECESSARY PRECAUTIONS NOT TO DAMAGE EXISTING STRUCTURES, RETAINING WALL, CONCRETE WALKWAY, SHEDS, BUILDINGS, ETC. THROUGHOUT CONSTRUCTION ACTIVITIES. ANY DAMAGE IS TO BE REPAIRED OR REPLACED AT CONTRACTOR'S EXPENSE. THE CONTRACTOR SHALL TAKE PHOTOS OF ALL EXISTING NEIGHBORING STRUCTURES PRIOR TO THE START OF ANY CONSTRUCTION ACTIVITIES AND SUBMIT TO DEPARTMENTAL REPRESENTATIVE.
 7. DISTURBED LANDSCAPED AREAS TO BE REINSTATED WITH 100mm SCREENED TOP SOIL AND HYDROSEEDING.
 8. THE CONTRACTOR SHALL ENSURE THE WORKS ARE PHASED IN A MANNER TO MAINTAIN CONTINUAL ACCESS TO SITE BY OWNER, INCLUDING TEMPORARY VEHICLE PARKING.
 9. UNLESS OTHERWISE NOTED ALL SURFACES ARE TO BE REINSTATED TO THEIR ORIGINAL CONDITION BY CONTRACTOR IF DISTURBED FOR CONSTRUCTION OF NEW SYSTEM OR REMOVAL OF EXISTING INFRASTRUCTURE. REINSTATEMENT TO BE ACCEPTED BY DEPARTMENTAL REPRESENTATIVE
 10. AFTER EXISTING GROUND HAS BEEN SCARIFIED AS INDICATED, DO NOT OPERATE OR TRAVERSE HEAVY MACHINERY ACROSS AREA UNLESS APPROVED BY DEPARTMENTAL REPRESENTATIVE



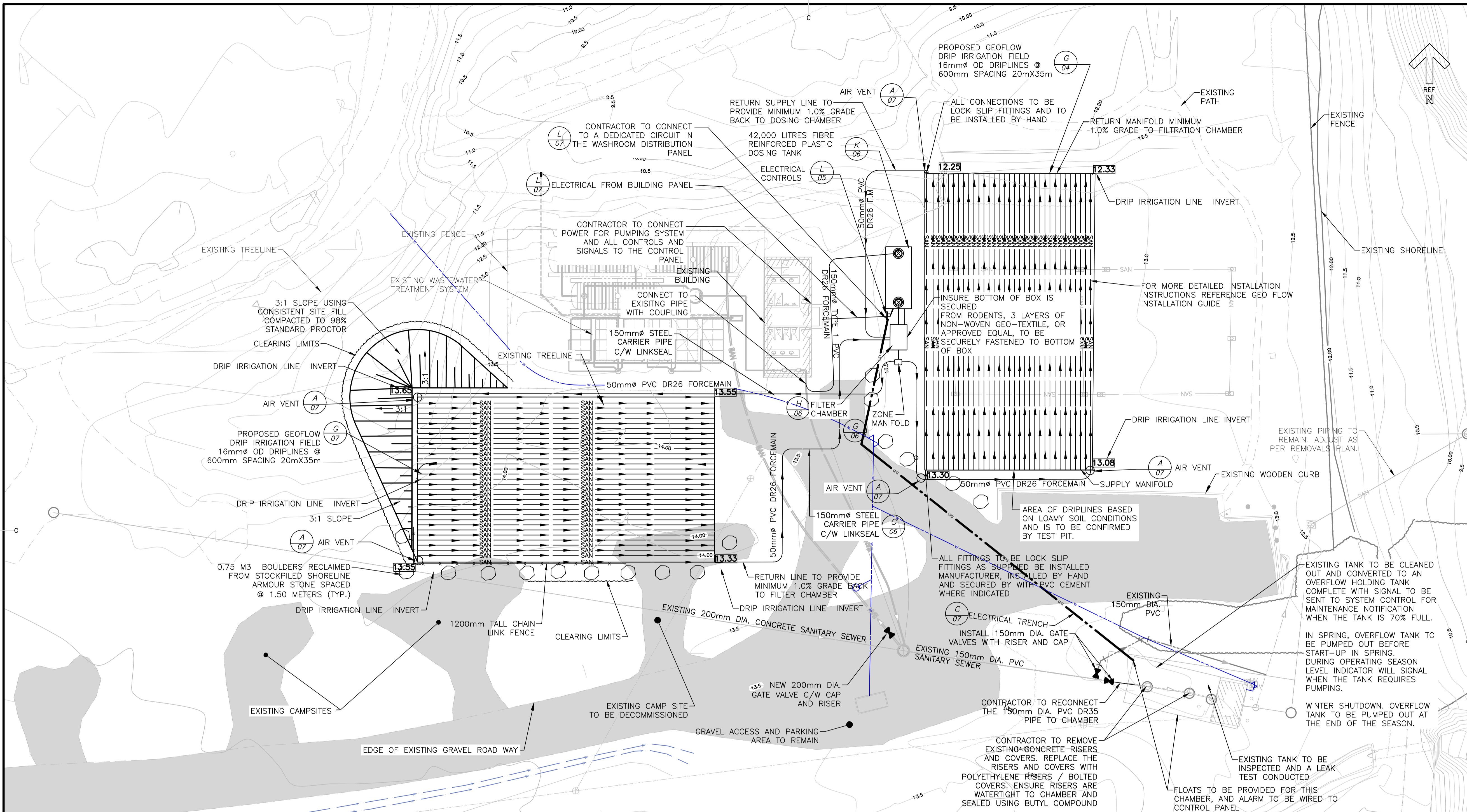


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CAPE BRETON HIGHLANDS NATIONAL PARK BROAD COVE BIN WALL REMEDIATION

DISPERSION SYSTEM LAYOUT

designed	J. BABIN P. ENG	conçu
date	DECEMBER 6 2019	
drawn	A. CALDWELL P. TECH	dessiné
date	DECEMBER 6 2019	
approved	J. BABIN P. ENG	approuvé
date	DECEMBER 6 2019	
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PWGSC Project Manager	Administrateur de projets TPSGC	
project number	2039	no. du projet
drawing no.	C02	no. du dessin

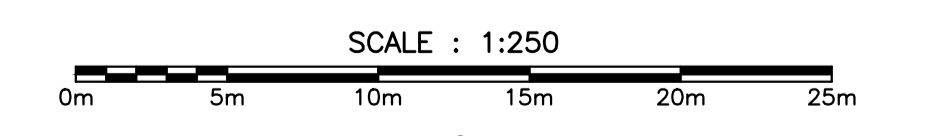


NOTES:

1. THE CONTRACTOR IS RESPONSIBLE TO CONFIRM LOCATION OF ALL UNDERGROUND INFRASTRUCTURE IN PROPOSED WORK AREAS INCLUDING BUT NOT LIMITED WATER, SANITARY, STORM, ELECTRICAL, COMMUNICATIONS, ETC. SERVICES.
2. THE CONTRACTOR IS RESPONSIBLE FOR EROSION AND SEDIMENTATION CONTROL, DUST CONTROL, MUD AND DIRT REMOVAL ON ROADWAYS AND GRAVEL MAINTENANCE, AS PER SPECIFICATION, FOR THE DURATION OF THE PROJECT.
3. ALL APPLICABLE MUNICIPAL PERMITS MUST BE OBTAINED BY CONTRACTOR IN ADVANCE OF CONSTRUCTION.
4. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO HAVE ALL INFRASTRUCTURE, LOCATED IN THE FIELD BY UTILITY OWNERS PRIOR TO THE START OF ANY EXCAVATION ACTIVITIES.
5. ALL APPLICABLE MUNICIPAL BY-LAWS, PROVINCIAL AND FEDERAL STATUTES AND REGULATIONS MUST BE ADHERED TO.
6. REFER TO SPECIFICATIONS FOR ADJUSTMENTS OF EXISTING STRUCTURES.
7. CONTRACTOR IS RESPONSIBLE TO TAKE ALL NECESSARY PRECAUTIONS NOT TO DAMAGE EXISTING STRUCTURES, RETAINING WALL, CONCRETE WALKWAY, SHEDS, BUILDINGS, ETC. THROUGHOUT CONSTRUCTION ACTIVITIES. ANY DAMAGE IS TO BE REPAIRED OR REPLACED AT CONTRACTOR'S EXPENSE. THE CONTRACTOR SHALL TAKE PHOTOS OF ALL EXISTING NEIGHBORING STRUCTURES PRIOR TO THE START OF ANY CONSTRUCTION ACTIVITIES AND SUBMIT TO BGIS PROJECT MANAGER.
8. DISTURBED LANDSCAPED AREAS TO BE REINSTATED WITH 100mm SCREENED TOP SOIL AND HYDROSEEDING.
9. THE CONTRACTOR SHALL ENSURE THE WORKS ARE PHASED IN A MANNER TO MAINTAIN CONTINUAL ACCESS TO SITE BY OWNER, INCLUDING TEMPORARY VEHICLE PARKING.
10. ANY REQUIRED TRAFFIC CONTROL IS RESPONSIBILITY OF THE CONTRACTOR.
11. SYSTEM IS INTENDED FOR NON FREEZING OPERATION CONDITIONS. ALL PIPES TO BE DRAINED TO AVOID FREEZING. ALL PIPING MUST BE GRADED CONSISTENTLY AND UNIFORMLY WITH NO HIGH OR LOW SPOTS BACK TO THE DOSING TANK.
12. GENERALLY SURFACE IS PREPARED TO GRADES SHOWN AND DRIP LINES ARE PLOWED INTO THE SOIL TO THE GRADES SHOWN USING SPECIALIZED PLOW GEAR. ALTERNATIVELY THE LINES CAN BE INSTALLED ON A PREPARED SURFACE THEN COVERED TO THE GRADES.

NOTE:
VALVES TO BE SET FOR PARK OPERATION AND CLOSE-DOWN. OVERFLOW TANK TO BE ACTIVE (VALVE OPEN) DURING CAMPING SEASON. BY-PASS VALVE TO REMAIN CLOSED DURING CAMPING SEASON.

NOTE:
FOR WINTER OPERATION, SANITIZE THE PIPING AND TANK AS REQUIRED. OPEN THE BY-PASS VALVE AND CLOSE THE OVERFLOW TANK VALVE.



- BOLLARD POST
- BOREHOLE
- MANHOLE
- EDGE OF DITCH
- SILT FENCE
- EDGE OF SHOULDER
- CONTOUR LINE
- OVERHEAD POWER
- SANITARY LINE
- UNDERGROUND POWER
- EXISTING WATER BOULDER
- AREA OF NEW HYDROSEED
- GRAVEL AREA



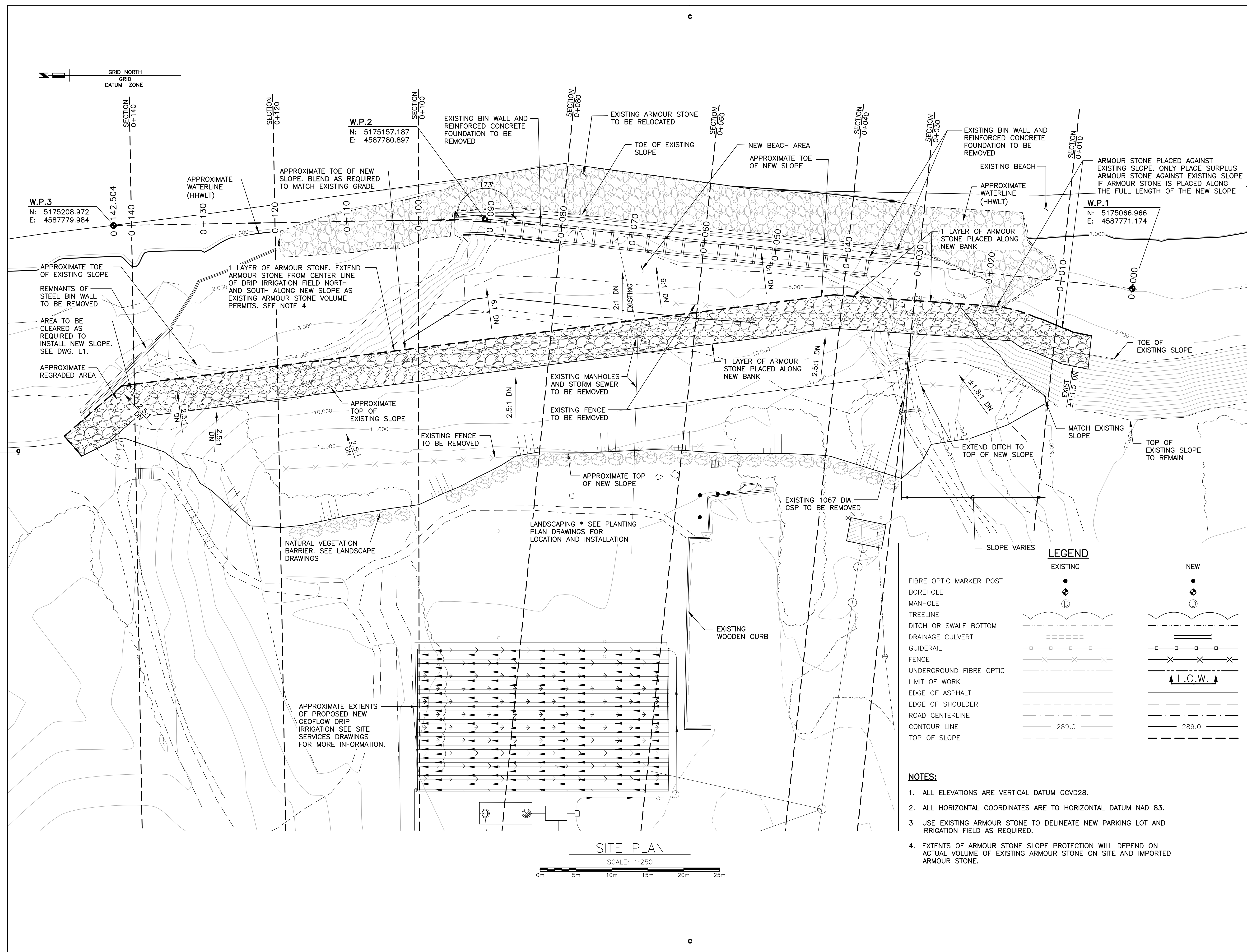
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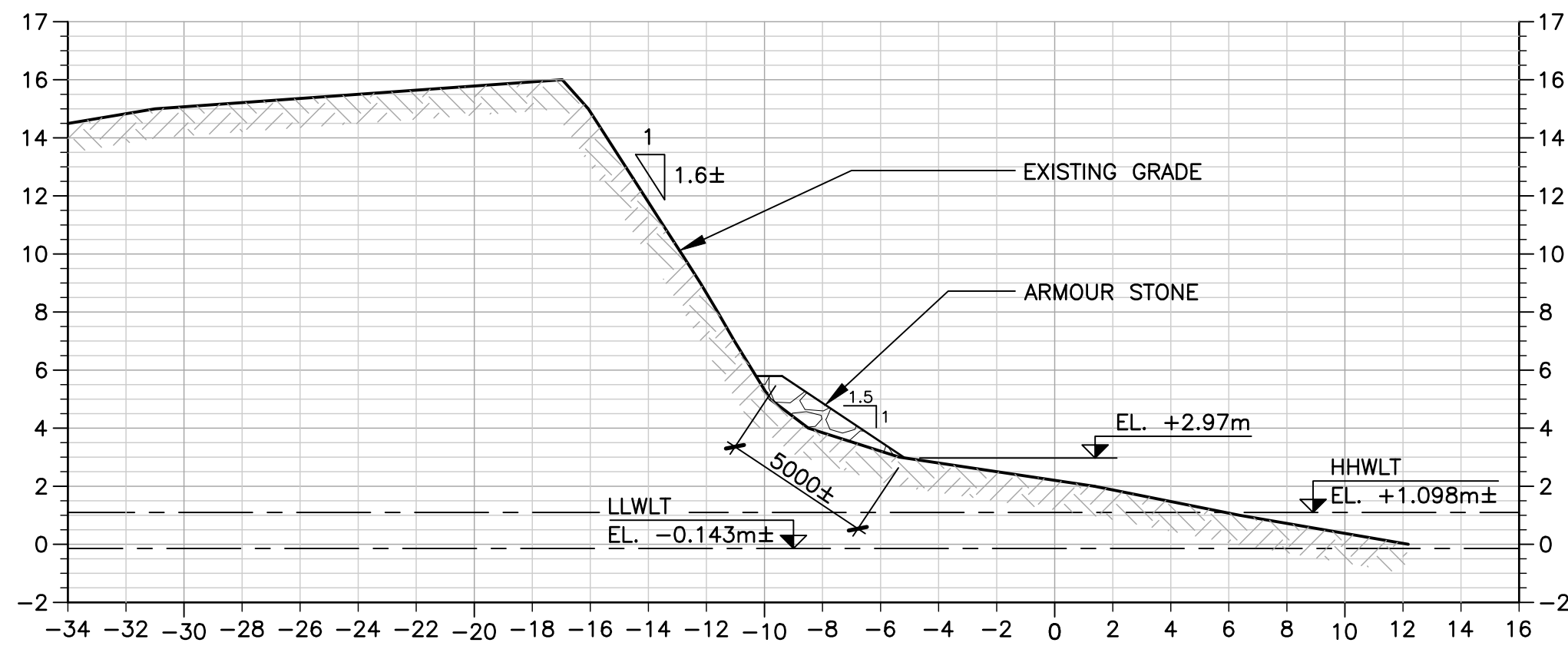
**CAPE BRETON HIGHLANDS NATIONAL PARK
BROAD COVE BIN WALL REMEDIATION**

drawing dessin

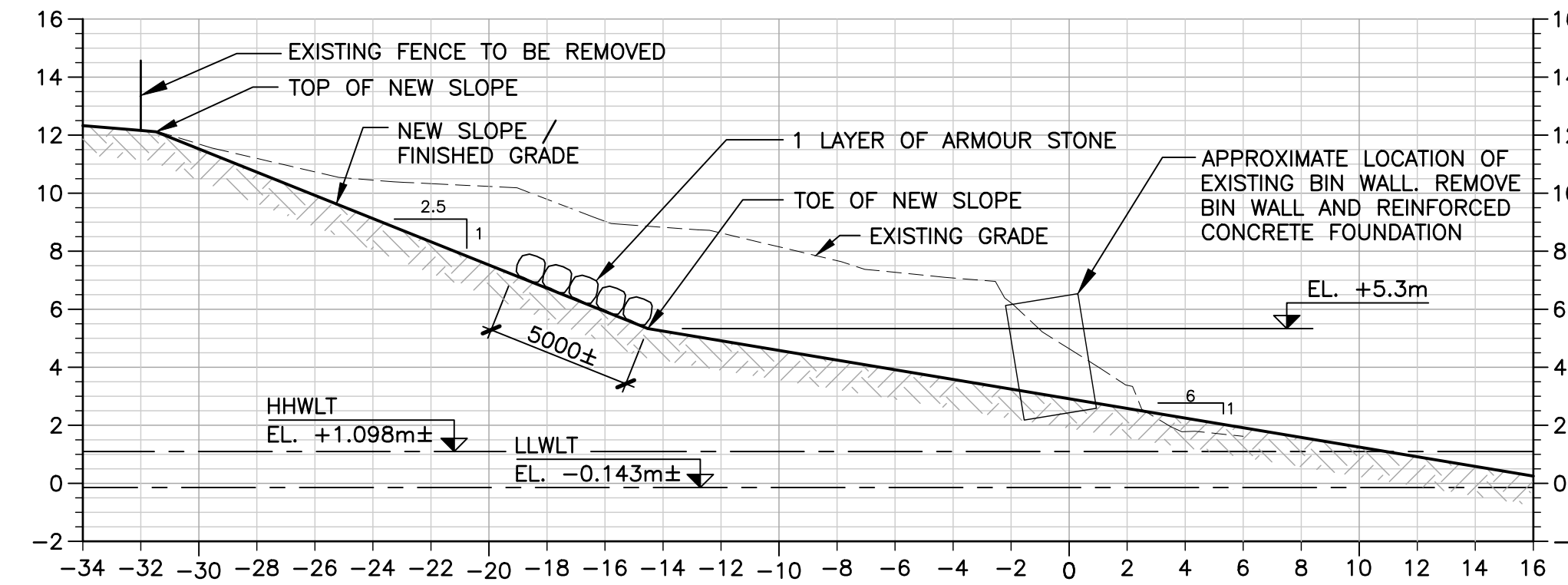
BIN WALL SLOPE STABILIZATION SITE PLAN

designed	M. PERTUS	conçu
date	MARCH 20, 2020	
drawn	D. LARADE	dessiné
date	MARCH 20, 2020	
approved	M. REYNOLDS	approuvé
date	MARCH 20, 2020	
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FWGSC Project Manager	Administrateur de projets TPSGC	
project number	no. du projet	
	2039	
drawing no.	no. du dessin	
	C03	

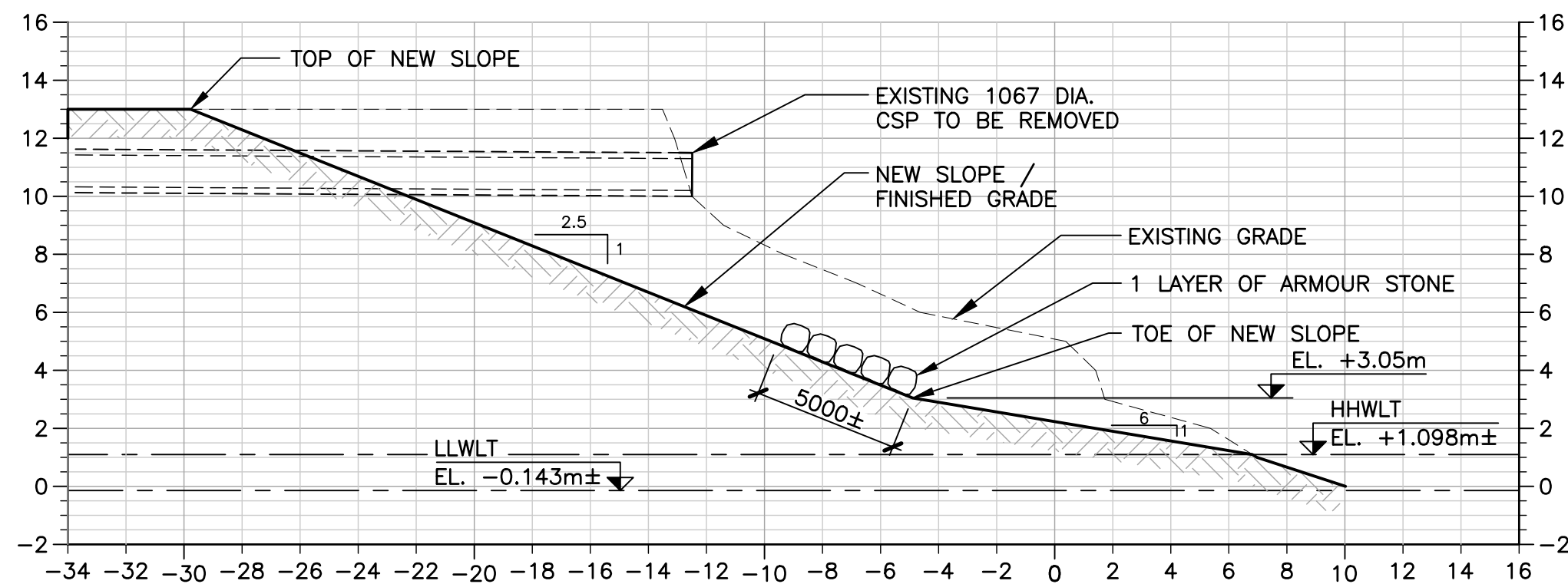




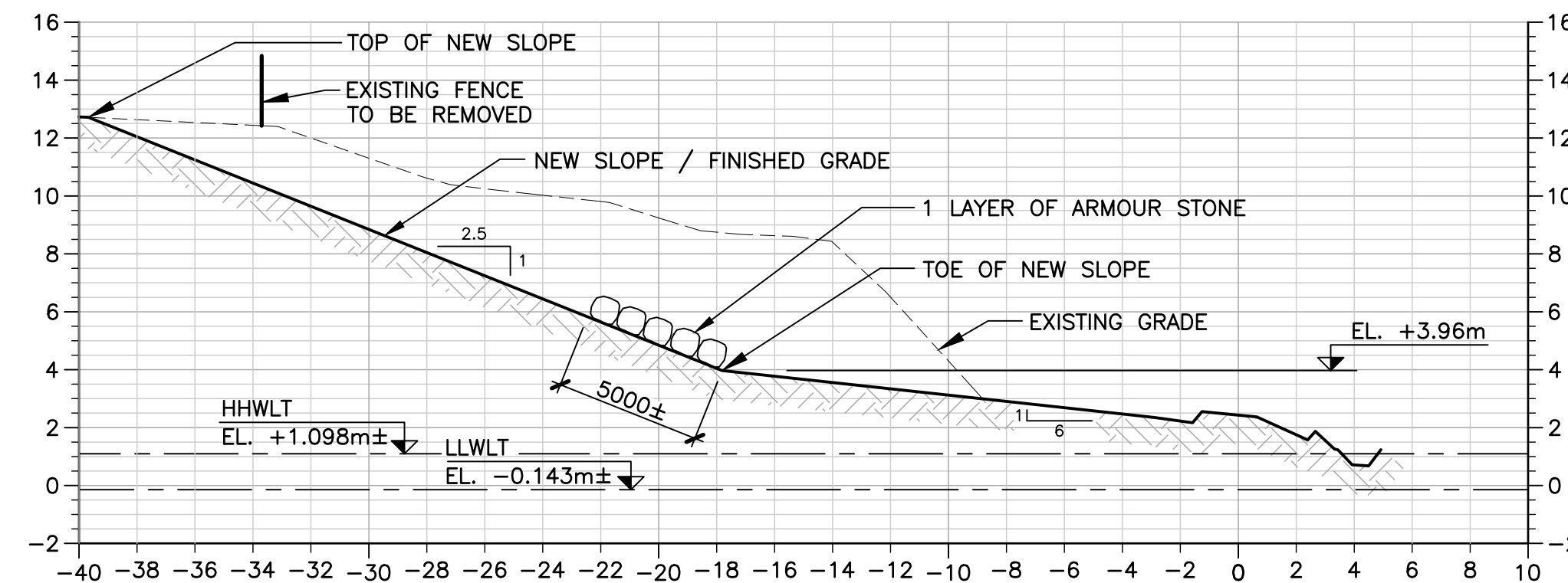
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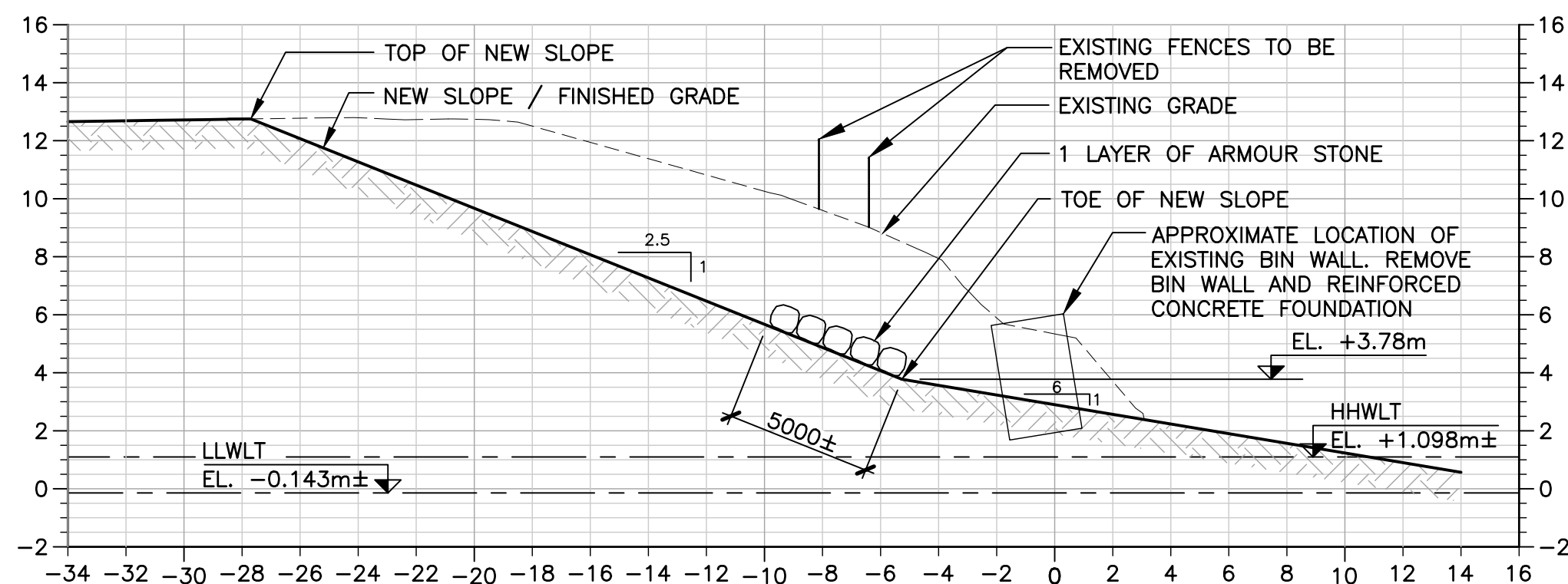
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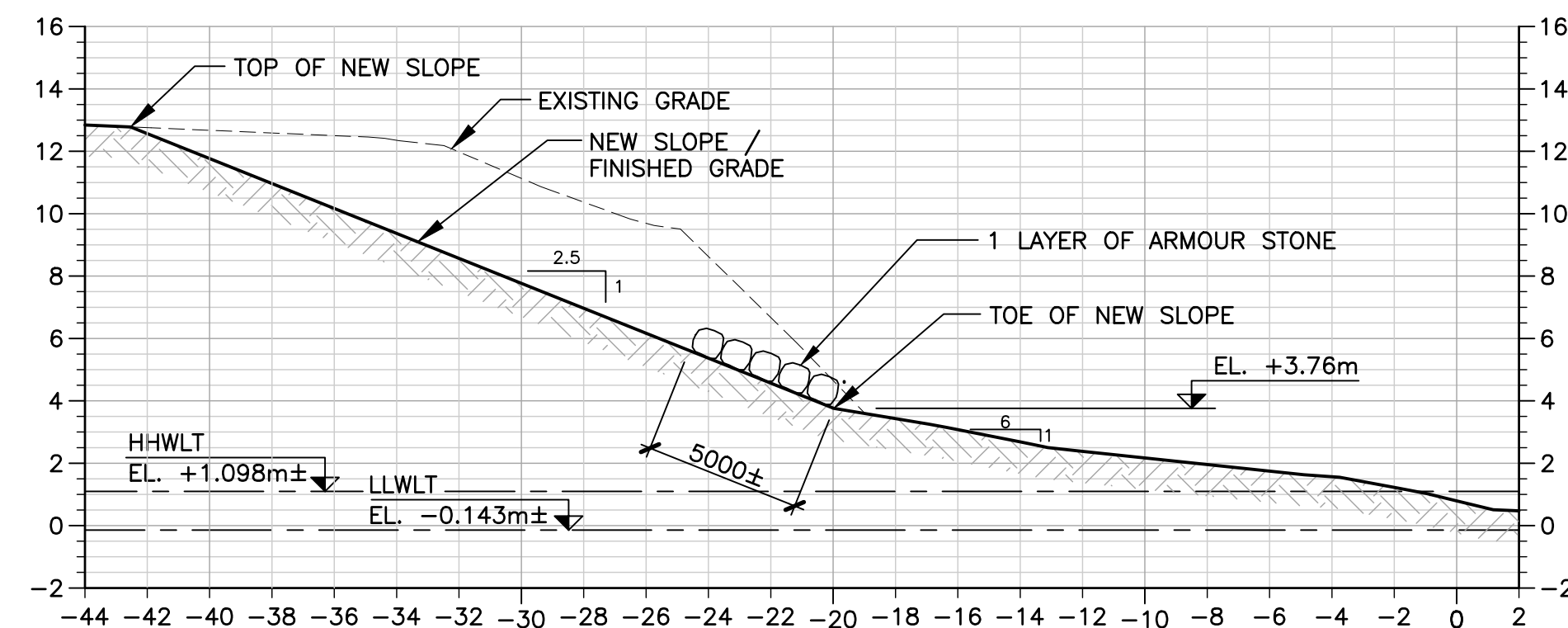
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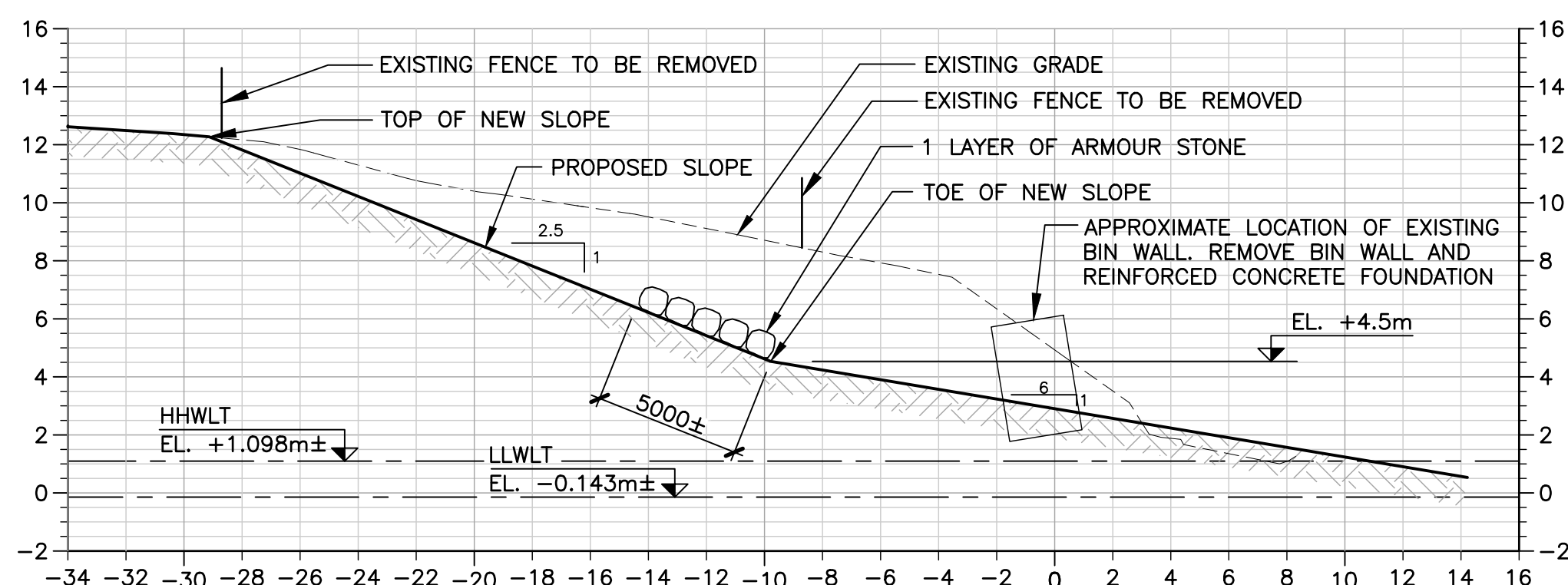
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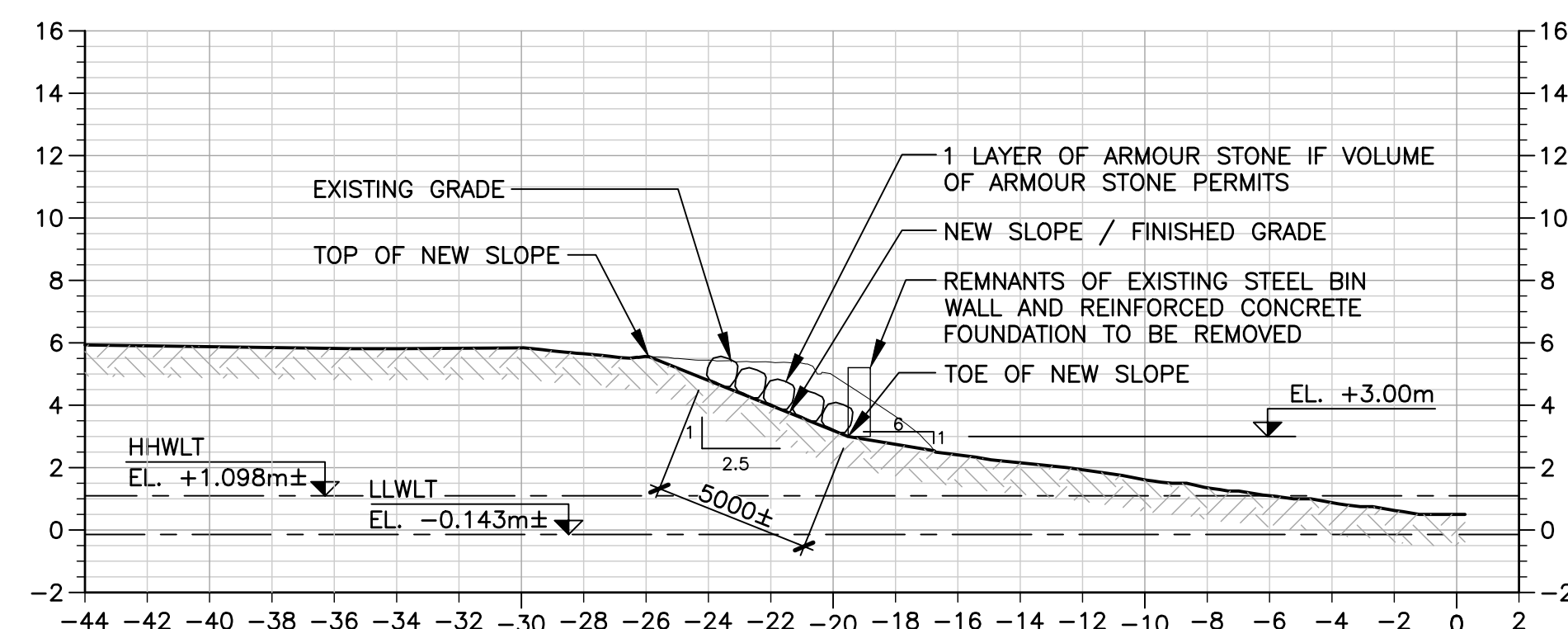
SECTION AT 0+040
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SECTION AT 0+120
1 : 200



SECTION AT 0+060
1 : 200



SECTION AT 0+140
1 : 200



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CAPE BRETON HIGHLANDS NATIONAL PARK
BROAD COVE BIN WALL REMEDIATION

SLOPE STABILIZATION SECTIONS

designed	M. PERTUS	conçu
date	MARCH 20, 2020	
drawn	D. LARADE	dessiné
date	MARCH 20, 2020	
approved	M. REYNOLDS	approuvé
date	MARCH 20, 2020	
Tender		Soumission

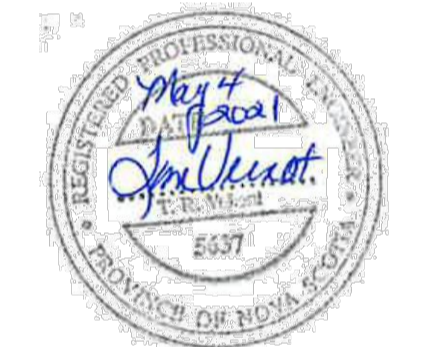
FWGSC Project Manager Administrateur de projets TPSGC

project number no. du projet

2039

drawing no. no. du dessin

C04



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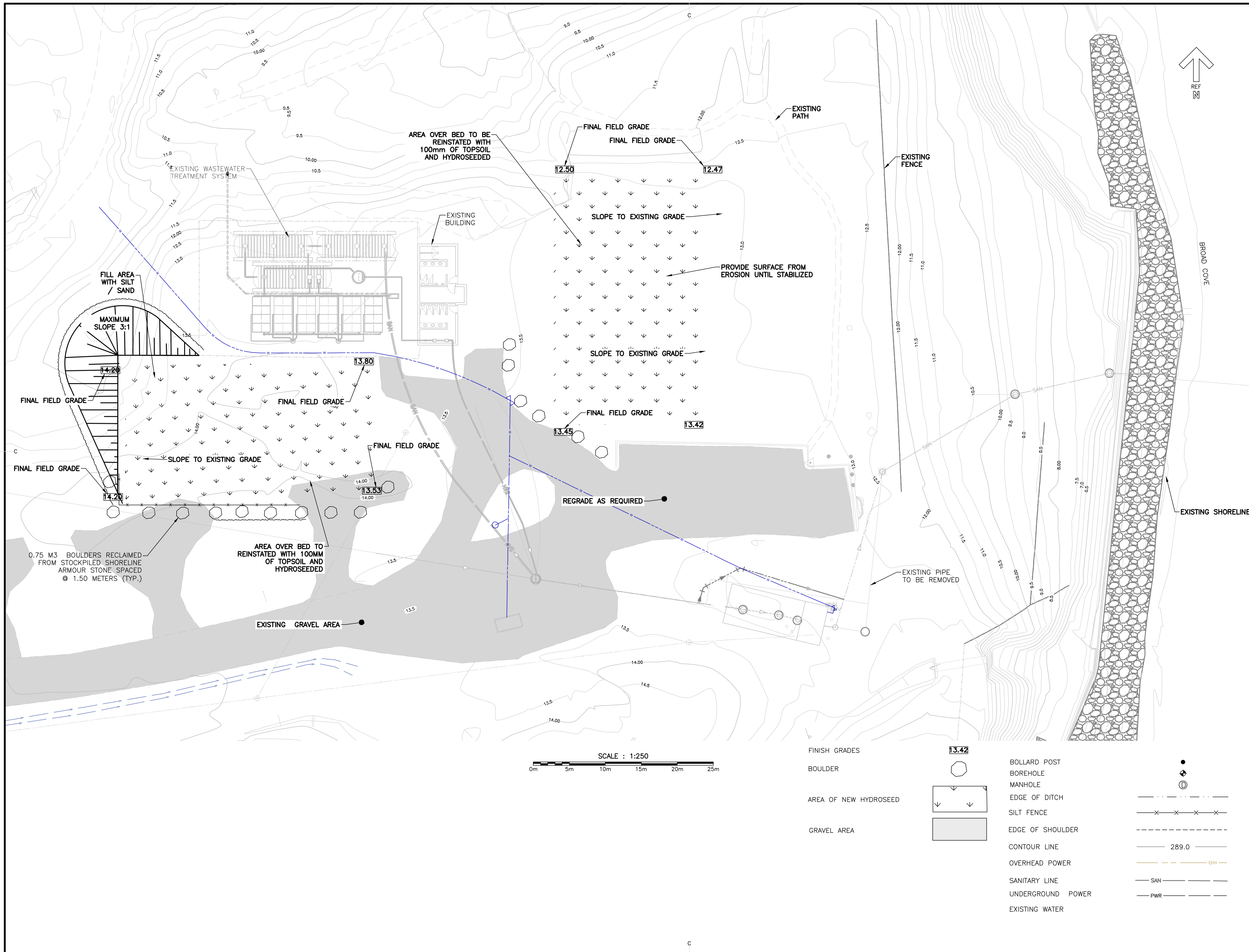
**CAPE BRETON HIGHLANDS NATIONAL PARK
BROAD COVE BIN WALL REMEDIATION**

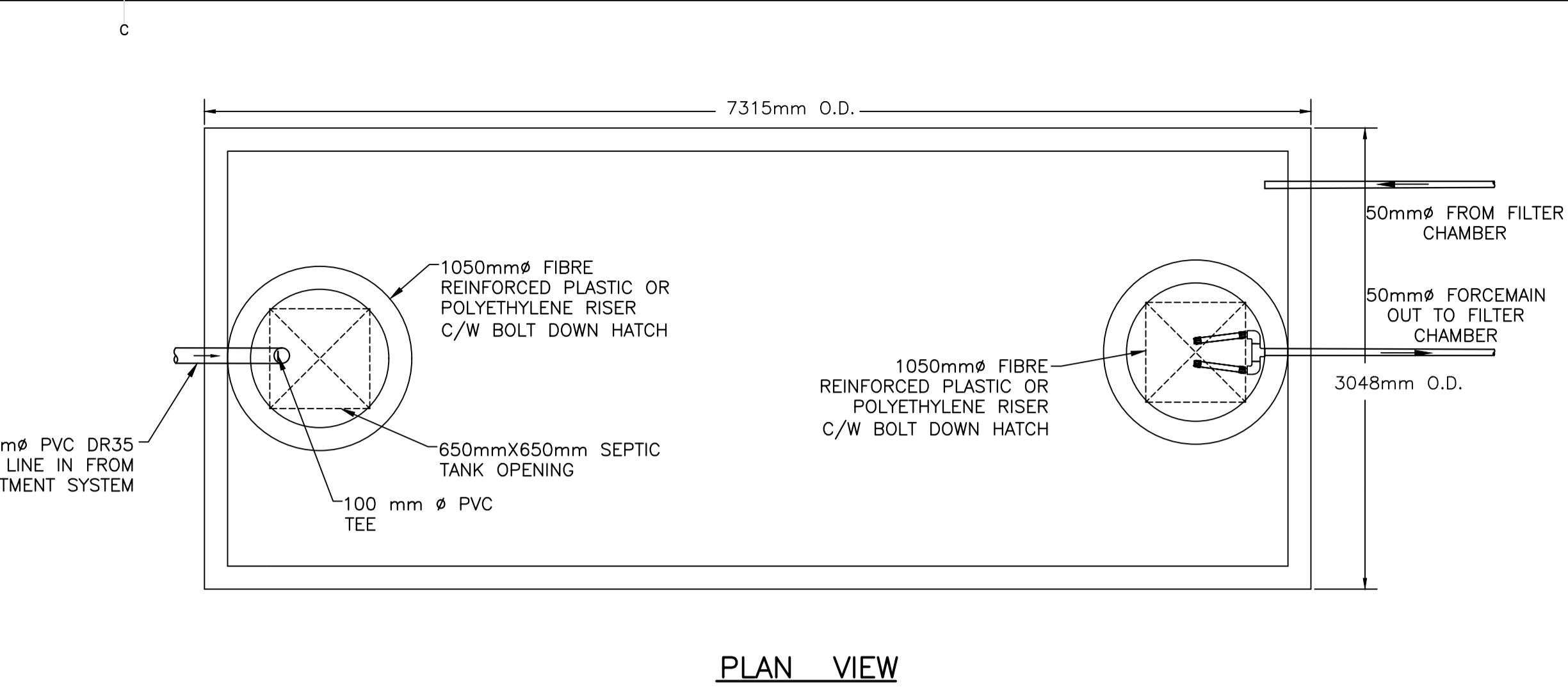
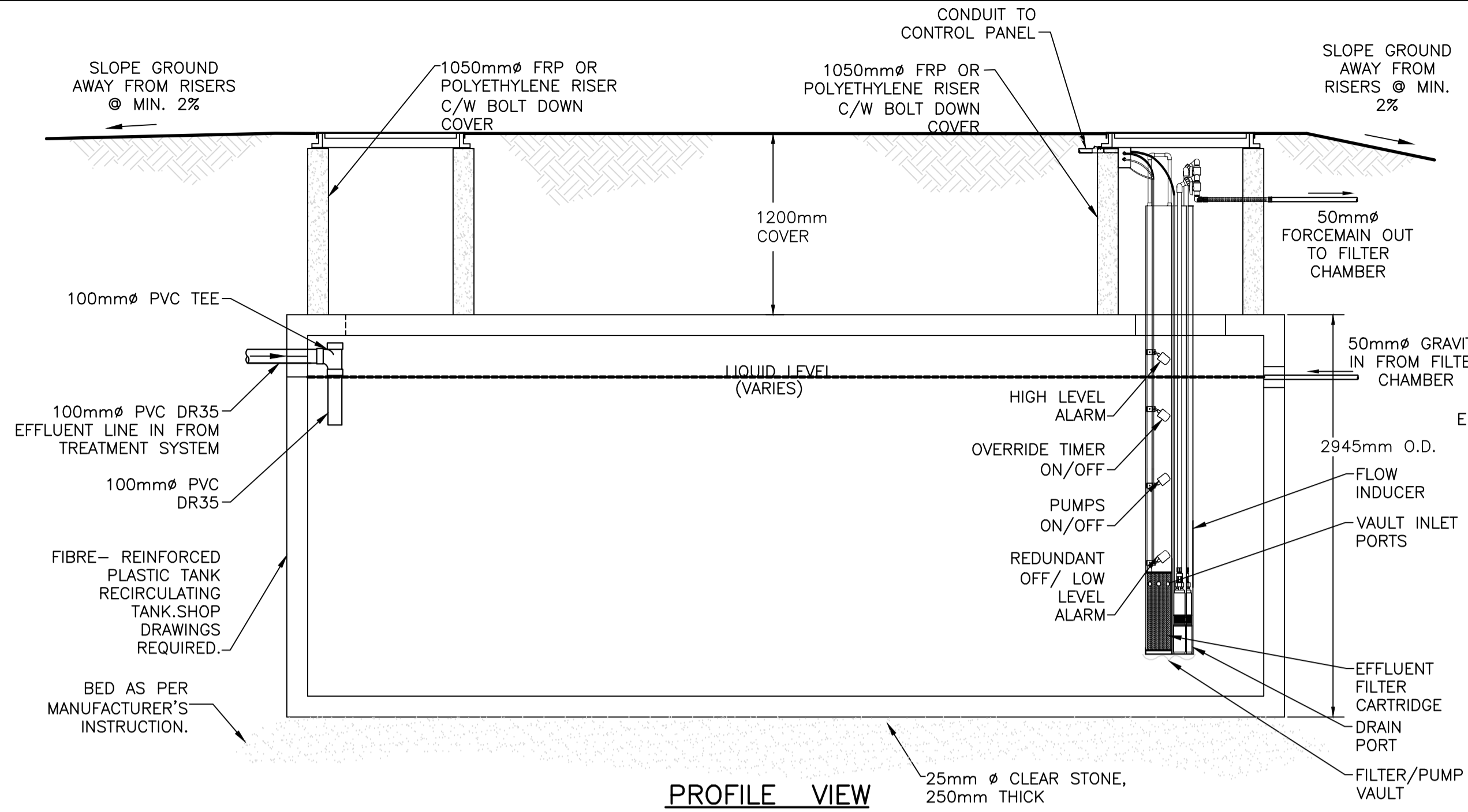
DISPERSION FIELD SURFACE GRADING

designed	J. BABIN P. ENG	conçu
date	DECEMBER 6 2019	
drawn	A. CALDWELL P. TECH	dessiné
date	DECEMBER 6 2019	
approved	J. BABIN P. ENG	approuvé
date	DECEMBER 6 2019	
Tender		Soumission

PWGSC Project Manager / Administrateur de projets TPSGC
 project number / no. du projet: **2039**

drawing no. / no. du dessin: **C05**





K (42,000L) DRIP IRRIGATION DOSING TANK

NOTE:
-TANK STRUCTURAL DESIGN BY CONTRACTOR, SHOP DRAWINGS TO BE SUBMITTED FOR REVIEW.
-TANK TO BE VACUUM OR HYDRO TESTED.
-TANK TO BE CONSTRUCTED TO CSA.

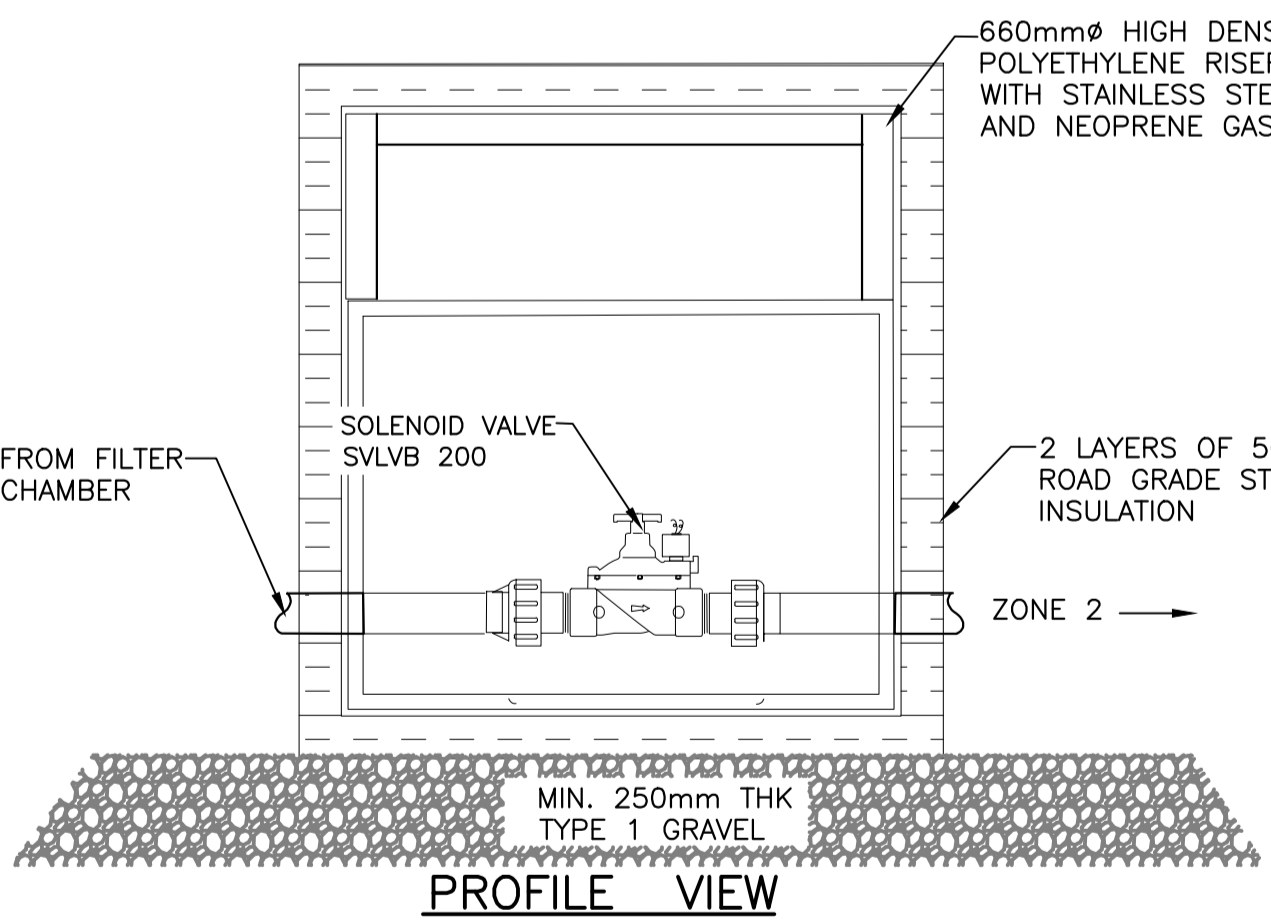
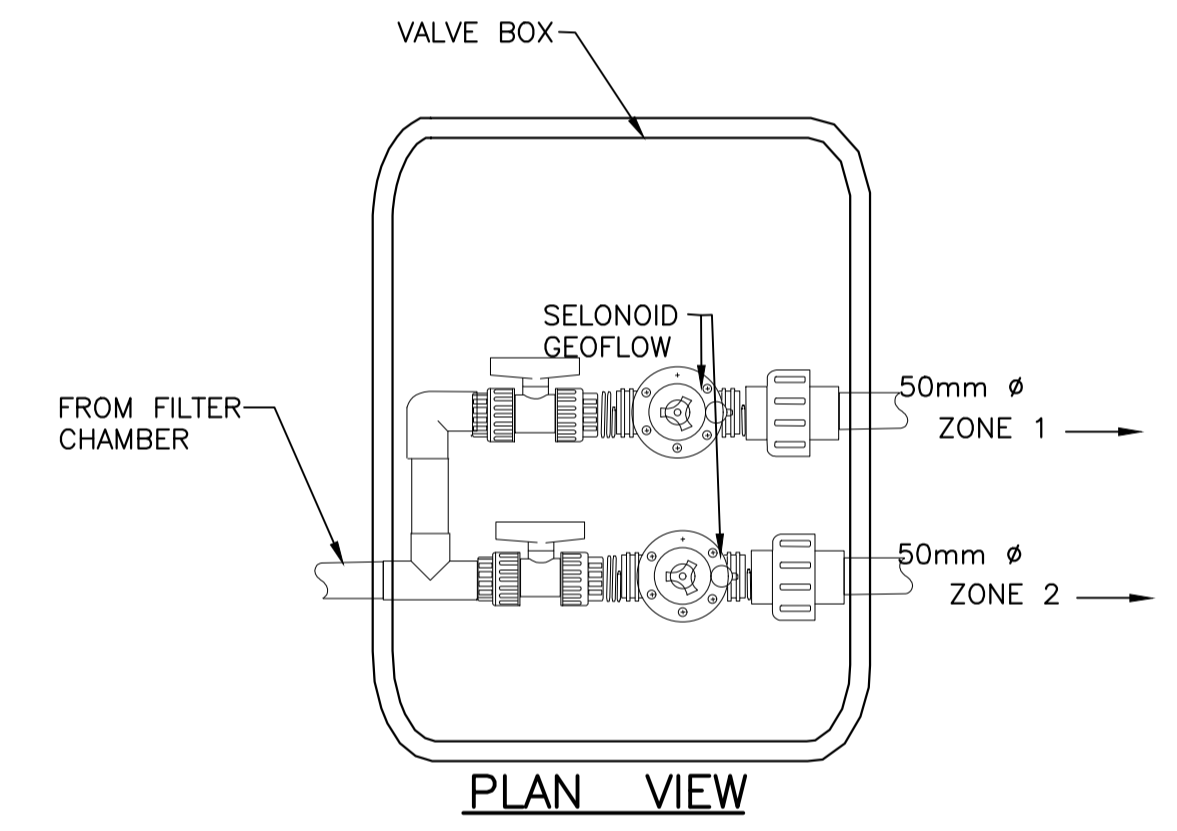
K (42,000L) DRIP IRRIGATION DOSING TANK

OPERATING LEVELS

- HIGH LEVEL ALARM
2600mm ABOVE TANK BOTTOM
- VERRIDE TIMER ON/OFF
2300mm ABOVE TANK BOTTOM
- PUMPS ON/OFF
2000mm ABOVE TANK BOTTOM
- REDUNDANT OFF/LOW LEVEL ALARM
1480mm ABOVE TANK BOTTOM
- EFFLUENT FILTER INLET PORTS
1100mm ABOVE TANK BOTTOM
- HIGH LEVEL ALARM SIGNAL TO CONTROL PANEL
- LOW LEVEL ALARM SIGNAL TO CONTROL PANEL
- PUMP FAILURE ALARM SIGNAL TO CONTROL PANEL

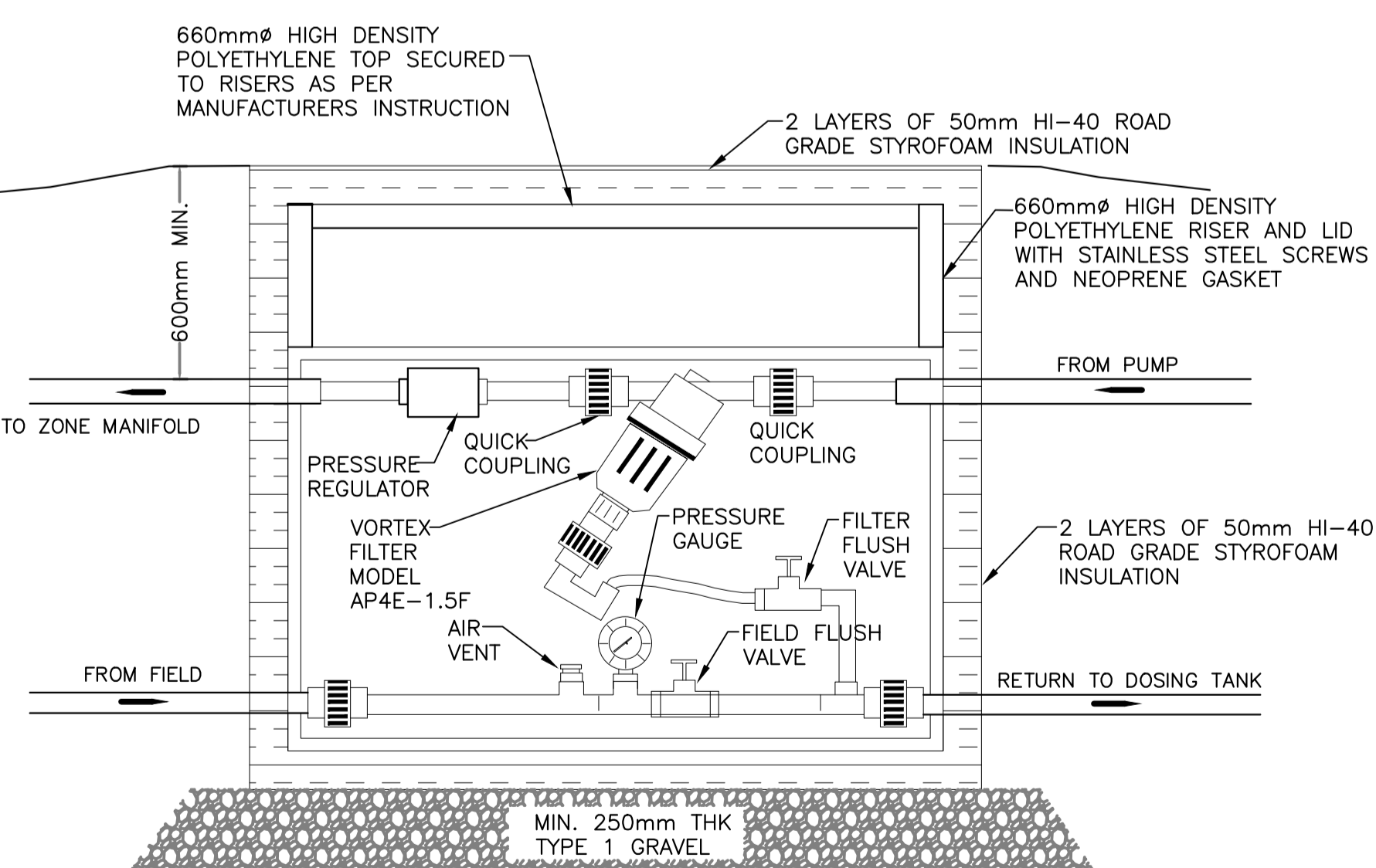
NOTE:

1. SECONDARY RISER REQUIRED FOR RECIRCULATING TANK ONLY.
2. SPLITTER VALVE REQUIRED IN RECIRCULATING TANK ONLY.
3. TANK STRUCTURAL DESIGN BY CONTRACTOR, ENGINEERED STAMPED (SEALED BY A PROFESSIONAL ENGINEER) SHOP DRAWINGS TO BE SUBMITTED FOR REVIEW.
4. TANK TO BE VACUUM OR HYDRO TESTED.
5. TANK TO BE CONSTRUCTED TO CSA B66-M90
6. THE PUMP WILL DUPLEX SYSTEM BE SIZED TO PROVIDE 25 PSI TO THE HEADER OF THE FIELD, PUMP CURVES TO CURVES TO BE SUBMITTED WITH SHOP DRAWING



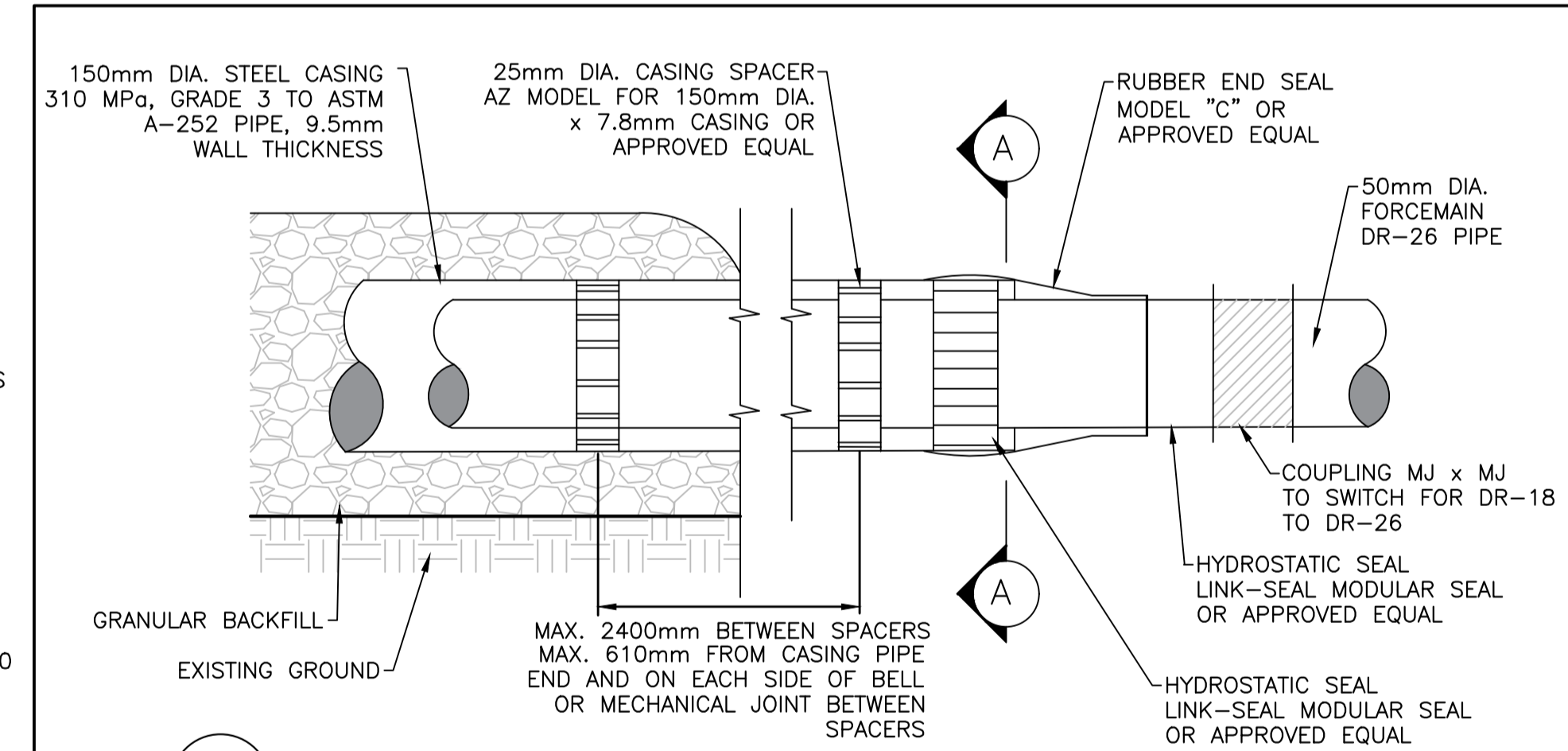
G ZONE MANIFOLD
N.T.S.

- NOTE:
1. INDEX VALVES TO BE SET AS PER MANUFACTURERS INSTRUCTIONS FOR TWO ZONES
 2. VALVE BOX TO BE INSULATED WITH TWO LAYERS OF 50mm HI-40 ROAD GRADE INSULATION
 3. PRESSURE REGULATOR : PMR-30-HF

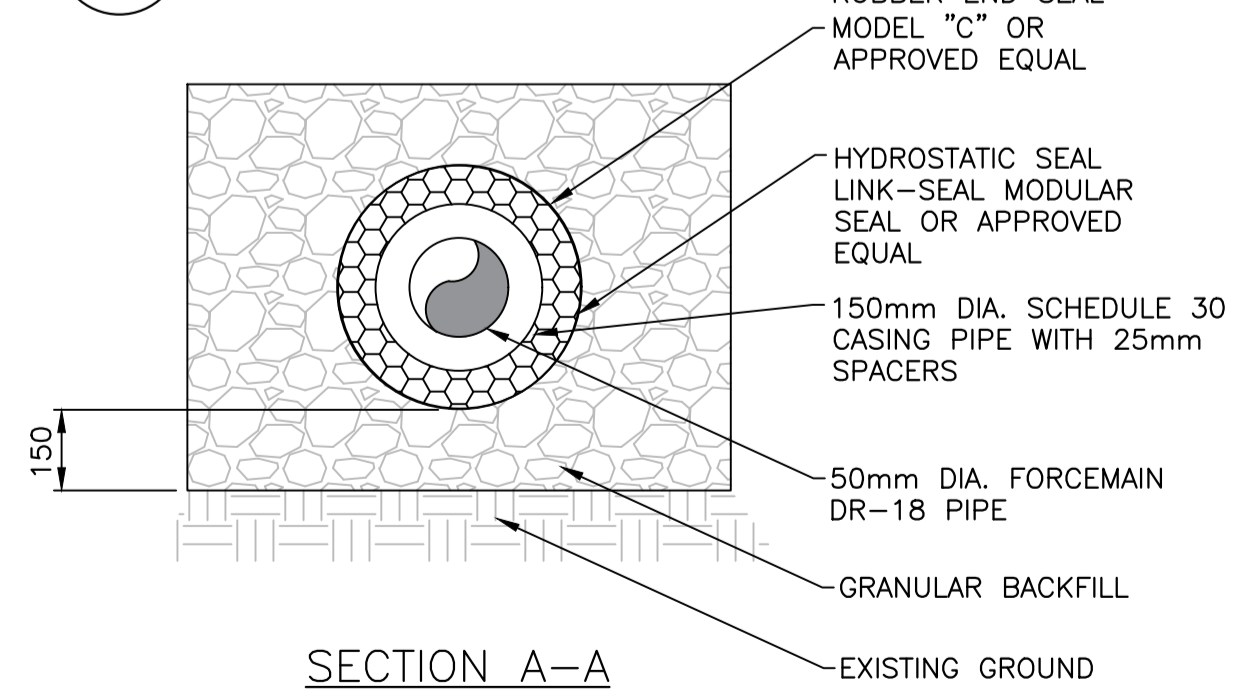


H FILTER CHAMBER DETAIL
N.T.S.

- NOTE:
1. FIELD FLUSH VALVE : GEOFLOW 1" BALL VALVE
 2. AIR VENT APVK100M
 3. PRESSURE REGULATOR : PMR-30-HF



C 50mm DIA. FORCEMAIN PIPE END DETAIL
N.T.S.



CASING PIPE INSTALLATION DETAIL
N.T.S.



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CAPE BRETON HIGHLANDS NATIONAL PARK BROAD COVE BIN WALL REMEDIATION

drawing design

SEPTIC SYSTEM DETAILS AND NOTES

designed	J. BABIN P. ENG	conçu
date	DECEMBER 6 2019	
drawn	A. CALDWELL P. TECH	dessiné
date	DECEMBER 6 2019	
approved	J. BABIN P. ENG	approuvé
date	DECEMBER 6 2019	
Tender		Soumission

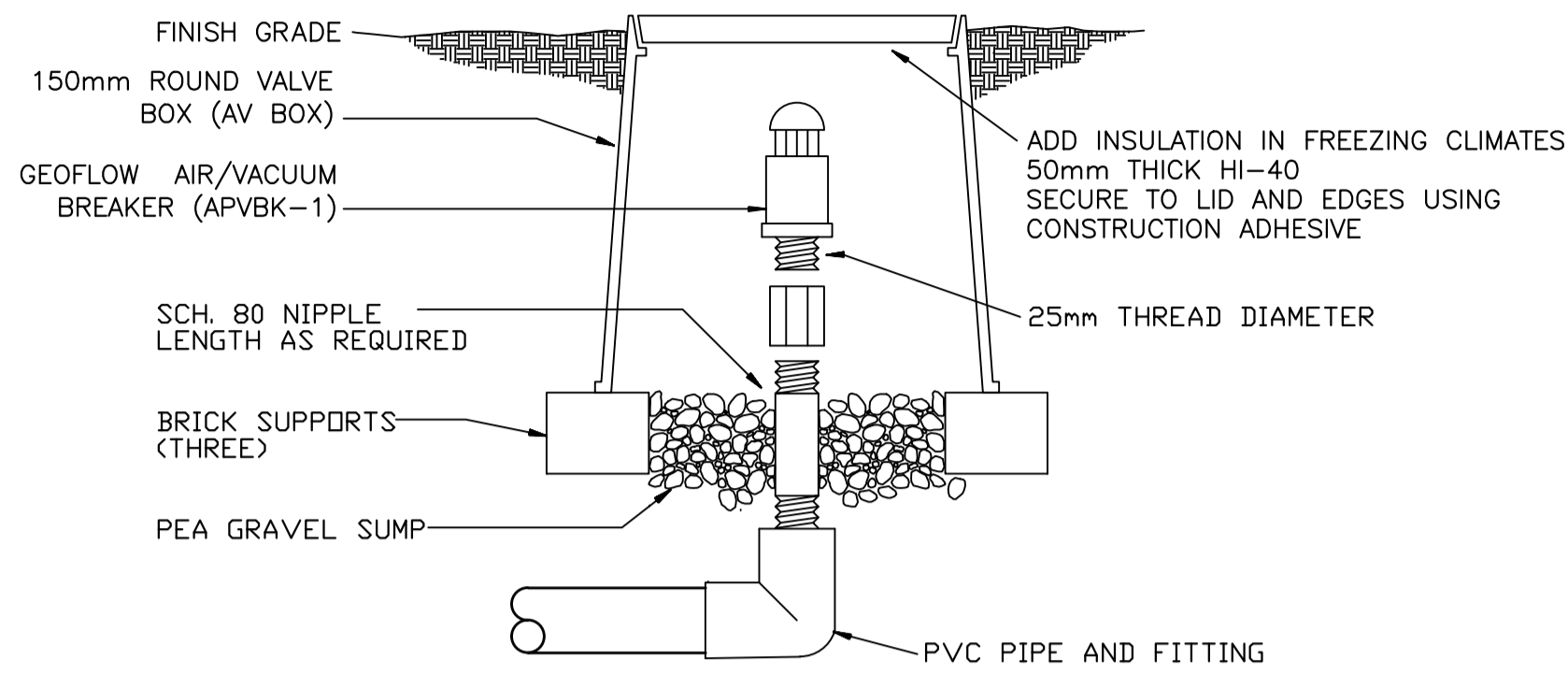
PWSC Project Manager Administrateur de projets TPSGC
project number no. du projet

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drawing no. no. du dessin

C06

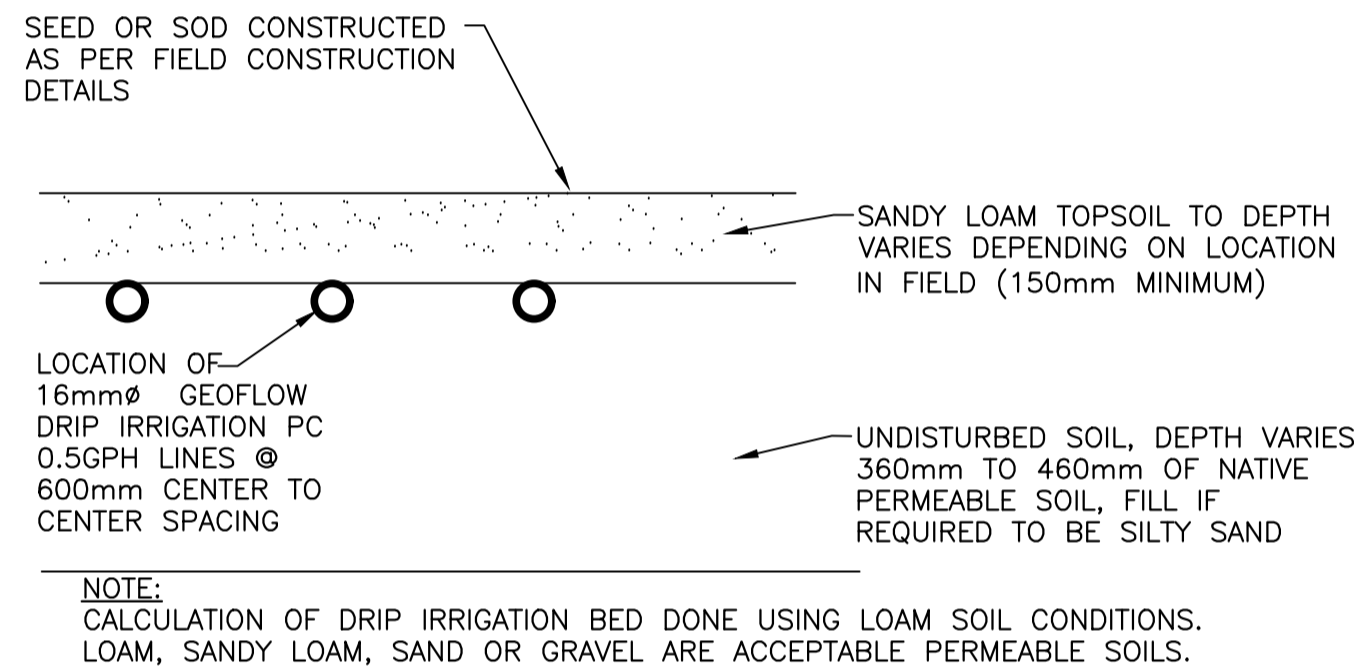
- NOTE:**
1. FIELD FLUSH VALVE : GEOFLOW 1" BALL VALVE
 2. AIR VENT APVBK100M
 3. PRESSURE REGULATOR : PMR-30-HF



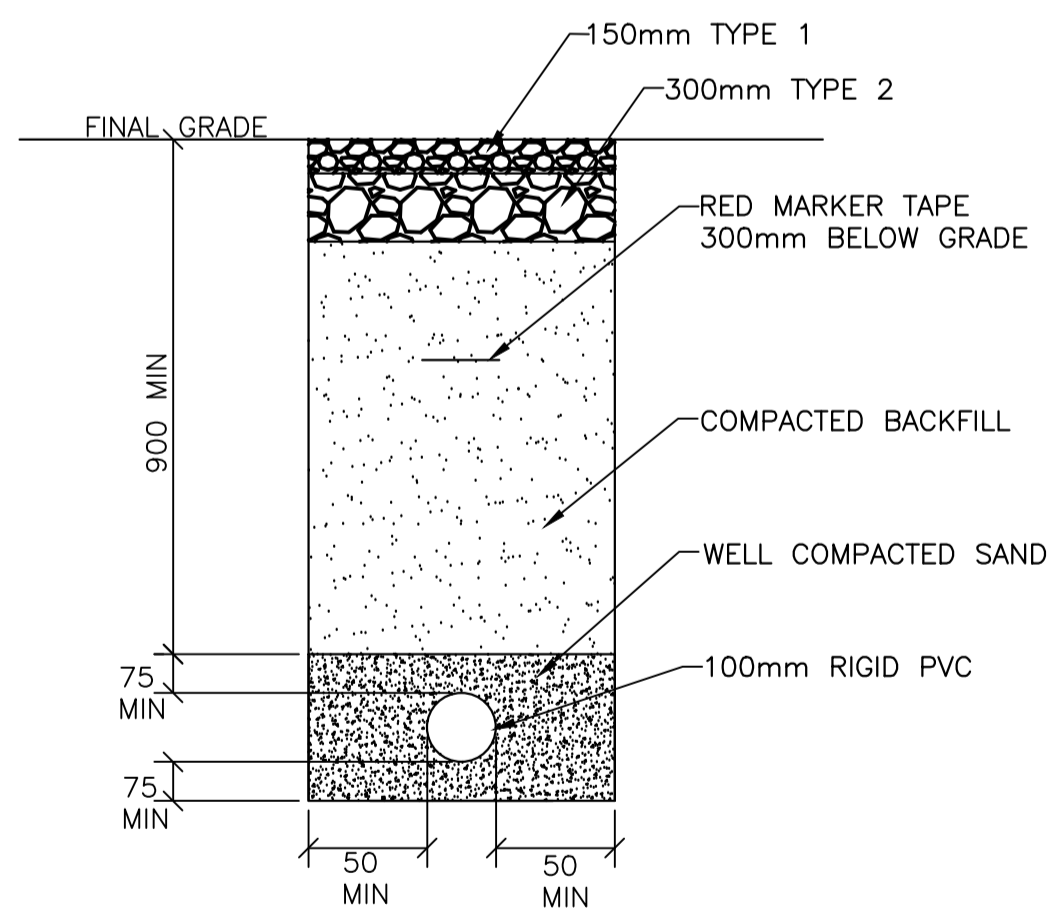
A AIR/VACUUM BREAKER
N.T.S.

SEQUENCE OF CONSTRUCTION:

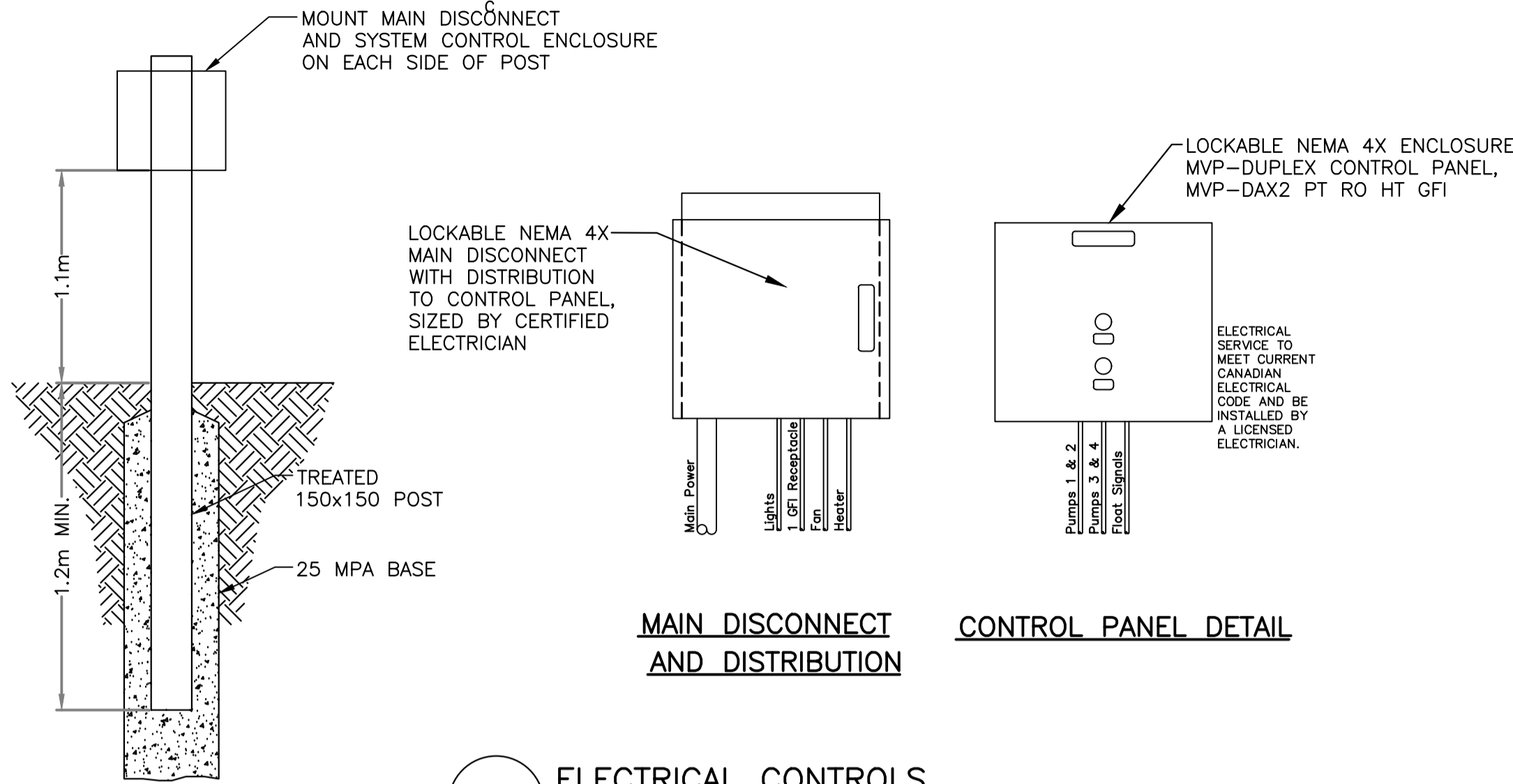
1. EXCAVATE TO SUBGRADES IN ACCORDANCE TO PLAYING FIELD SPECIFICATIONS.
2. CONSTRUCT FIELD FINISHED GRADES TO SPECIFICATIONS.
3. TRENCH FOR DRIPLINES 600mm O.C.
4. ENSURE SLOPE FROM TOP MANIFOLD TO LOWER MANIFOLD IS MINIMUM 1.0%.
5. GEO FLOW TUBING TO BE INSTALLED AT A DEPTH OF 150mm TO 250mm, COVER TO BE INSTALLED WITH NO HIGH POINTS OR LOW POINTS



G DRIPLINE CROSS SECTION
N.T.S.



B DETAIL - ELECTRICAL TRENCH
N.T.S.



L ELECTRICAL CONTROLS
N.T.S.

CONSTRUCTION NOTES

1. SUB SURFACE DISPERSION SYSTEM DESIGNED FOR 42,000 LITRES/DAY AVERAGE DAILY FLOWS. WORK TO BE CONSISTENT WITH NSDEL ON-SITE DISPOSAL SYSTEM TECHNICAL GUIDELINES LATEST EDITION.
2. CONTRACTOR TO OBTAIN ALL NECESSARY PERMITS REQUIRED TO PERFORM WORKS. COMPLY WITH ALL PERMIT REQUIREMENTS AND CONDITIONS.
3. DEVIATION FROM THESE DRAWINGS WILL ONLY BE PERMITTED WITH PRIOR WRITTEN CONSENT OF: DEPARTMENTAL REPRESENTATIVE.
3. ALL WORKS MUST BE COMPLETED IN ACCORDANCE WITH:
 - THE NOVA SCOTIA ON-SITE SEWAGE DISPOSAL SYSTEMS REGULATIONS, MAY 20, 2017
 - ON-SITE SEWAGE DISPOSAL SYSTEM TECHNICAL GUIDELINES, JUNE, 2013
 - THE STANDARD SPECIFICATION FOR MUNICIPAL SERVICES (CURRENT EDITION)
 - THE OCCUPATIONAL HEALTH AND SAFETY ACT
 - SPECIFIC CONDITIONS OF NSDEL APPROVAL
4. ALL ELECTRICAL SERVICING TO BE INSTALLED TO CURRENT CODE.
5. THE SYSTEM AND ALL COMPONENTS MUST BE LOCATED AND STAKED ON SITE PRIOR TO ANY CONSTRUCTION TAKING PLACE.
6. ALL TANKS AND PUMP CHAMBERS MUST BE VACUUM/HYDROSTATIC TESTED TO ENSURE THERE ARE NO LEAKS.
7. ALL PIPEWORK TO BE LOW PRESSURE AIR TESTED.
8. THE INSTALLATION OF THE ON-SITE DISPOSAL SYSTEMS MUST BE INSPECTED BY A QUALIFIED PERSON OTHER THAN THE CONTRACTOR
9. TANK CAPACITIES AS SHOWN.
11. PIPE BEDDING TO BE 25mm MINUS, CLASS "B" OR SELECT BACKFILL UNLESS OTHERWISE SPECIFIED.
12. INSTALLATION OF ALL ELECTRICAL, MECHANICAL AND PIPEWORK COMPONENTS FOR THE OPERATION OF THE PUMP, AS WELL AS ALL INCIDENTALS ASSOCIATED WITH INSTALLATION, STARTUP AND REINSTATEMENT ARE THE RESPONSIBILITY OF THE CONTRACTOR.
13. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL TRAFFIC CONTROL AND SAFETY MEASURES DURING WORK.
14. CONTRACTOR IS RESPONSIBLE TO SUBMIT AN EROSION AND SEDIMENTATION CONTROL PLAN TO THE DEPARTMENTAL REPRESENTATIVE FOR THE PROTECTION OF NATURAL WATERCOURSES FROM DAMAGE DUE TO SILTATION RUNOFF FROM THE CONSTRUCTION SITE. ACCEPTABLE CONSTRUCTION PROCEDURES MAY BE OBTAINED FROM "EROSION AND SEDIMENTATION CONTROL HANDBOOK FOR CONSTRUCTION SITES", CURRENT EDITION, BY NSDEL.
15. CONTRACTOR SHALL DESIGN, INSTALL AND MAINTAIN ADEQUATE TEMPORARY BRACING AND SHORING OF ALL STRUCTURAL ELEMENTS FOR STABILITY AND SAFETY WHERE REQUIRED DURING CONSTRUCTION.
16. CONTRACTOR TO INSPECT SEDIMENT CONTROL MEASURES REGULARLY AND IMMEDIATELY BEFORE AND AFTER A RAIN EVENT AND MAKE NECESSARY REPAIRS.
17. ALL MEASUREMENTS SHOWN IN BRACKETS , (100), ARE MILLIMETRES UNLESS OTHERWISE NOTED
18. AVOID DAMAGE TO SITE DURING CONSTRUCTION. IF POSSIBLE, DELIVER FILL MATERIALS TO THE SITE DURING DRY CONDITIONS. MINIMIZE DAMAGE BY LIMITING TRAVEL, MATCHING EQUIPMENT TO SEASONAL CONDITIONS AND GENERALLY KEEPING MACHINERY ON THE UP-SLOPE SIDE OF THE SYSTEM.
19. SANITARY SYSTEM GRAVITY PIPING TO BE PVC DR35 INSTALLED AT A MINIMUM 2.0% GRADE UNLESS OTHERWISE SPECIFIED.
20. ALL ACCESS RISERS TO BE CONCRETE WITH CAST FRAME AND IMP R-12 BOLT DOWN COVER, UNLESS OTHERWISE SPECIFIED.
21. CONTRACTOR TO CONFIRM GRADES AND REPORT ANY DISCREPANCIES TO THE ENGINEER.
22. DISTURBED AREAS NOT OTHERWISE STABILIZED TO BE HYDROSEEDDED AND HAYED UPON CONSTRUCTION COMPLETION AS DIRECTED BY THE ENGINEER.
23. EXISTING CONDITIONS TO BE VERIFIED IN FIELD PRIOR TO CONSTRUCTION. DISCREPANCIES TO BE REPORTED IMMEDIATELY TO THE ENGINEER.
24. INSULATION (LOAD RATED TYPE IV) IS REQUIRED ON ALL PIPEWORK WITH LESS THAN 1200mm OF COMMON COVER OR AS INDICATED ON THE APPROVED DRAWINGS.
25. ALL ELECTRICAL SERVICING TO BE INSTALLED TO CURRENT ELECTRICAL CODE BY A QUALIFIED ELECTRICIAN.
26. GEOTECHNICAL CERTIFICATION IS THE RESPONSIBILITY OF THE CONTRACTOR AS REQUIRED.
27. GEOTECHNICAL ENGINEERING REQUIREMENTS REGARDING INSTALLATION OF PIPEWORK AND TANKAGE ARE THE RESPONSIBILITY OF THE CONTRACTOR.
28. SUPPLY AND INSTALL THE CONTROL PANEL (MOUNT IN THE ROOM COORDINATED WITH OTHER DISCIPLINES). PUMPING CHAMBER POWER SUPPLY REQUIRED TO OPERATE PROPOSED PUMPS AS INDICATED. THIS WORK TO BE COORDINATED WITH THE BUILDING MECHANICAL AND ELECTRICAL CONTRACTORS AND IN ACCORDANCE TO NOVA SCOTIA POWER.
29. ALL BENDS TO BE LONG RADIUS BENDS.
30. IF GROUNDWATER LEVEL AROUND PUMP CHAMBER EXCEEDS AN ELEVATION ABOVE HALF THE TANK, CONTACT THE ENGINEER.
31. PUMPS AS SPECIFIED
32. THIS DRAWING IS TO BE READ IN CONJUNCTION WITH OTHER DISCIPLINES. ANY CONFLICT OR DISCREPANCY IS TO BE REPORTED IMMEDIATELY TO THE ENGINEER.



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revisions		date
project		projct

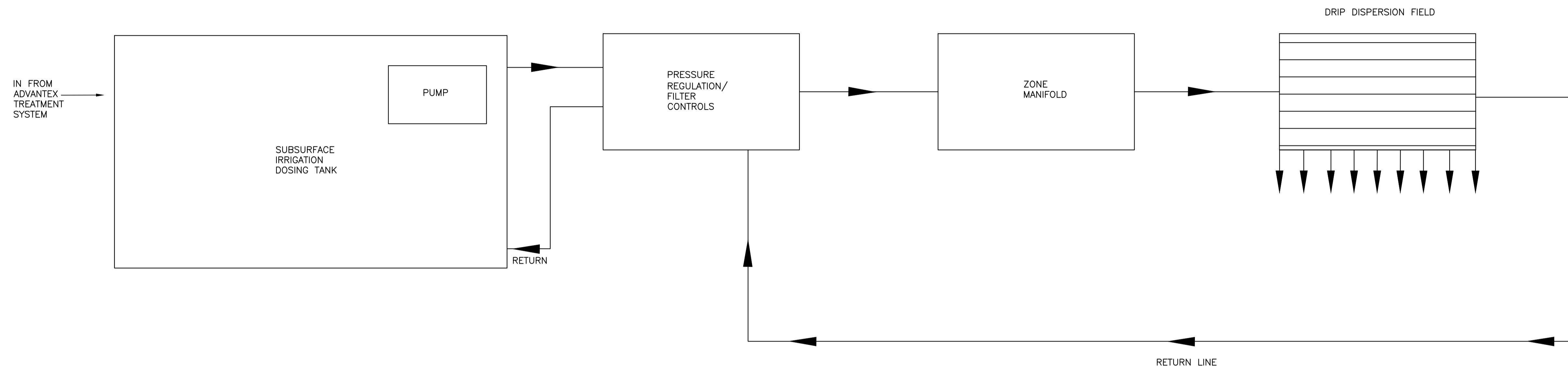
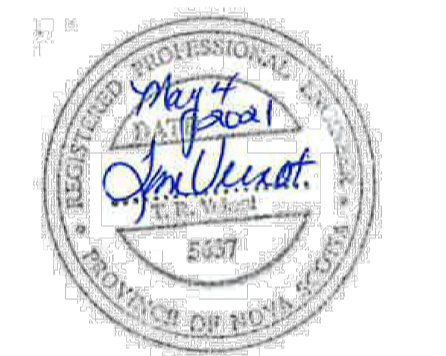
CAPE BRETON HIGHLANDS NATIONAL PARK BROAD COVE BIN WALL REMEDIATION

drawing dessin

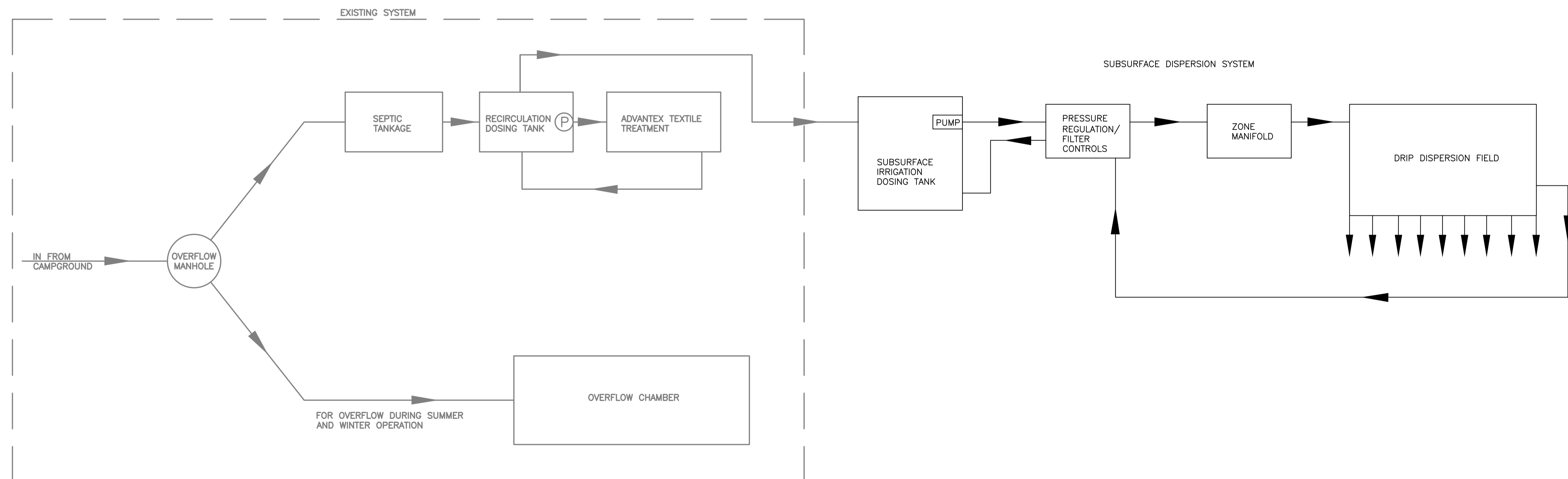
SEPTIC SYSTEM DETAILS AND NOTES

designed	J. BABIN P. ENG	conçu
date	DECEMBER 6 2019	
drawn	A. CALDWELL P. TECH	dessiné
date	DECEMBER 6 2019	
approved	J. BABIN P. ENG	approuvé
date	DECEMBER 6 2019	
Tender		Soumission

PWGSC Project Manager	Administrateur de projets TPSGC
project number	no. du projet
2039	
drawing no.	no. du dessin
C07	



DRIP FLOW DIAGRAM



OVERALL FLOW DIAGRAM

1	ISSUED FOR TENDER	MAR 26 2021
revisions		date

CAPE BRETON HIGHLANDS NATIONAL PARK
BROAD COVE BIN WALL REMEDIATION

DRIP FLOW DIAGRAM

designed	J. BABIN P. ENG	conçu
date	DECEMBER 6 2019	
drawn	A. CALDWELL P. TECH	dessiné
date	DECEMBER 6 2019	
approved	J. BABIN P. ENG	approuvé
date	DECEMBER 6 2019	

PWGSC Project Manager Administrateur de projets TPSGC

project number 2039 no. du projet

drawing no. C08 no. du dessin



AREA TO BE SALVAGED, SEE NOTES



A	ISSUED FOR TENDER	MAR 26 2021
revisions		date
project		project

**BROAD COVE
BIN WALL
REMEDiation
CAPE BRETON HIGHLANDS
NATIONAL PARK**

drawing dessin

**BIN WALL
SLOPE STABILIZATION
EXISTING CONDITIONS**

designed	B. PARKER	conçu
date	MARCH 26 2021	
drawn	M. BEATTIE	dessiné
date	MARCH 26 2021	
approved	B. PARKER	approuvé
date	MARCH 26 2021	
Tender		Soumission

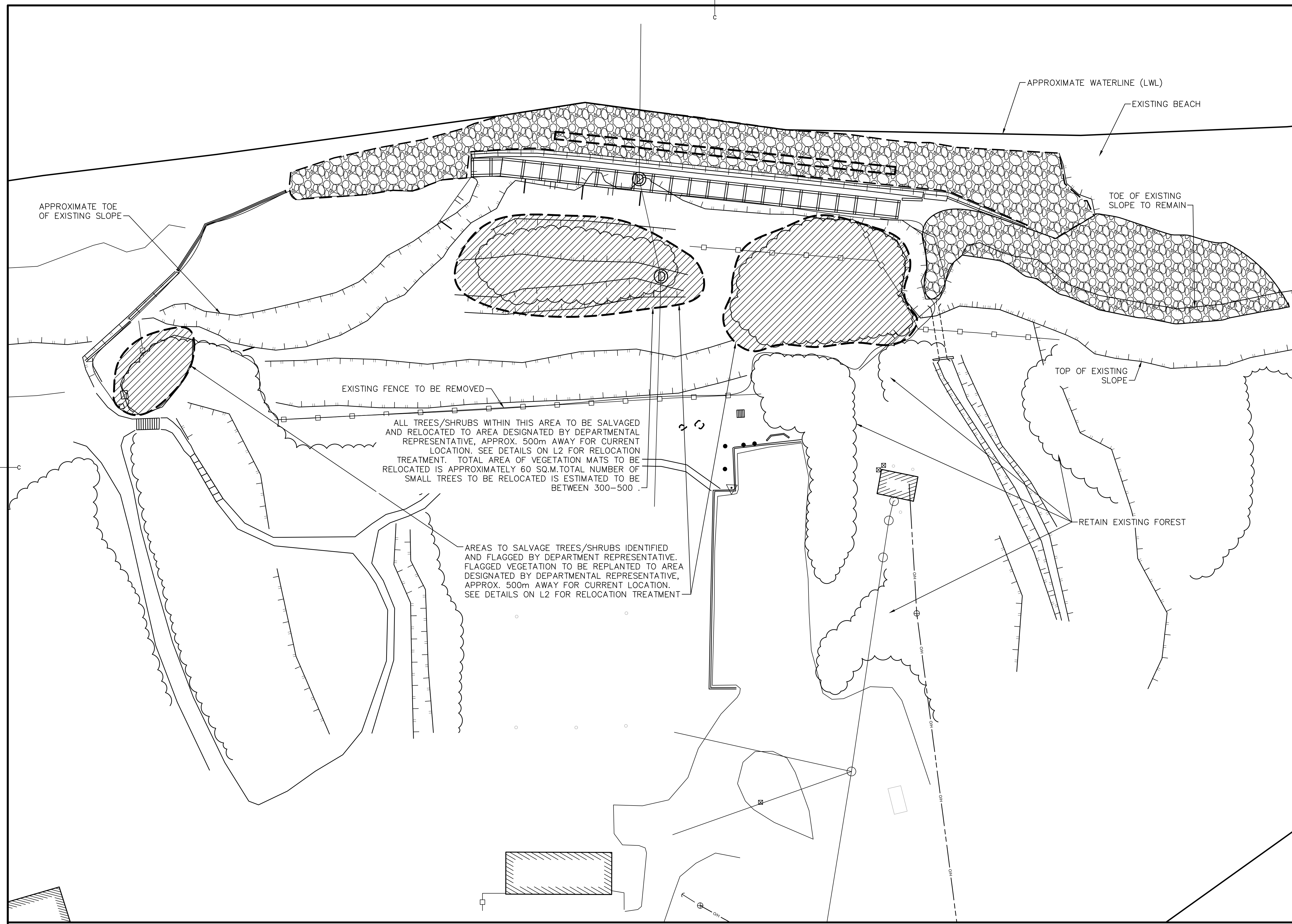
FWGSC Project Manager Administrateur de projets TPSGC

project number no. du projet

2039

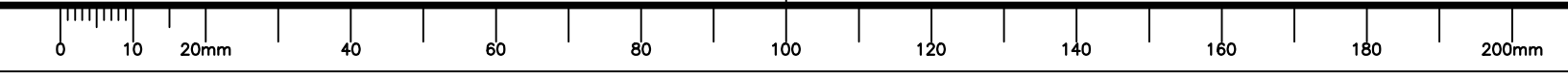
drawing no. no. du dessin

L1



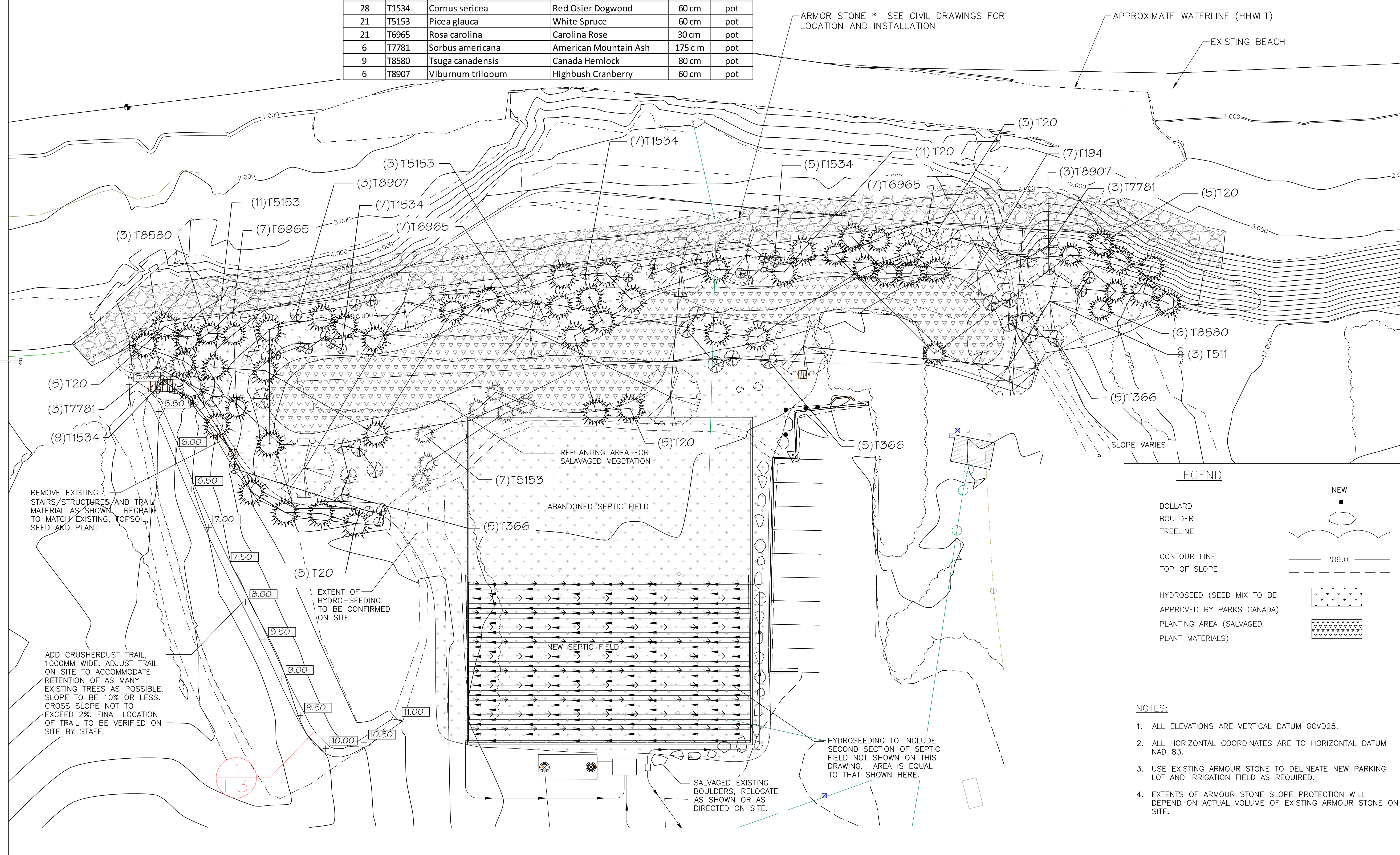
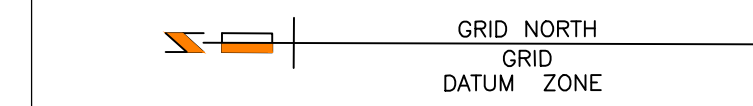
PRESERVATION PLAN

SCALE: 1:250





Qty	Code	Botanical Name	Common Name	Size	Remarks
Trees & Shrubs					
34	T20	Abie balsamea	Balsam Fir	60 cm	pot
7	T194	Acer rubrum	Red Maple	200 cm	pot
15	T366	Amelanchier canadensis	Serviceberry	150 cm	pot
3	T511	Betula alleghanensis	Yellow Birch	225 cm	pot
28	T1534	Cornus sericea	Red Osier Dogwood	60 cm	pot
21	T5153	Picea glauca	White Spruce	60 cm	pot
21	T6965	Rosa carolina	Carolina Rose	30 cm	pot
6	T7781	Sorbus americana	American Mountain Ash	175 cm	pot
9	T8580	Tsuga canadensis	Canada Hemlock	80 cm	pot
6	T8907	Viburnum trilobum	Highbush Cranberry	60 cm	pot



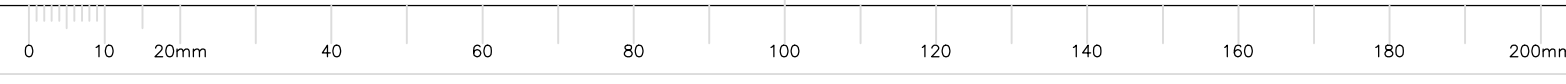
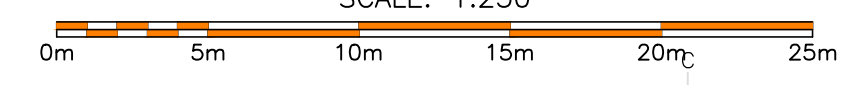
LEGEND

- NEW: [Symbol]
- BOLLARD: [Symbol]
- BOULDER: [Symbol]
- TREELINE: [Symbol]
- CONTOUR LINE: [Symbol] 289.0
- TOP OF SLOPE: [Symbol]
- HYDROSEED (SEED MIX TO BE APPROVED BY PARKS CANADA): [Symbol]
- PLANTING AREA (SALVAGED PLANT MATERIALS): [Symbol]

- NOTES:**
- ALL ELEVATIONS ARE VERTICAL DATUM GCV28.
 - ALL HORIZONTAL COORDINATES ARE TO HORIZONTAL DATUM NAD 83.
 - USE EXISTING ARMOUR STONE TO DELINEATE NEW PARKING LOT AND IRRIGATION FIELD AS REQUIRED.
 - EXTENTS OF ARMOUR STONE SLOPE PROTECTION WILL DEPEND ON ACTUAL VOLUME OF EXISTING ARMOUR STONE ON SITE.

SITE PLAN

SCALE: 1:250



A	ISSUED FOR TENDER	MAR 26 2021
revisions		date
project		proj
BROAD COVE BIN WALL REMEDIATION CAPE BRETON HIGHLANDS NATIONAL PARK		
drawing		dessin
BIN WALL SLOPE STABILIZATION PLANTING PLAN		
designed	B. PARKER	conçu
date	MARCH 26 2021	
drawn	M. BEATTIE	dessiné
date	MARCH 26 2021	
approved	B. PARKER	approuvé
date	MARCH 26 2021	
Tender		Soumission
FWGSC Project Manager	Administrateur de projets TPSGC	
project number		no. du projet
	2039	
drawing no.		no. du dessin
	L2	

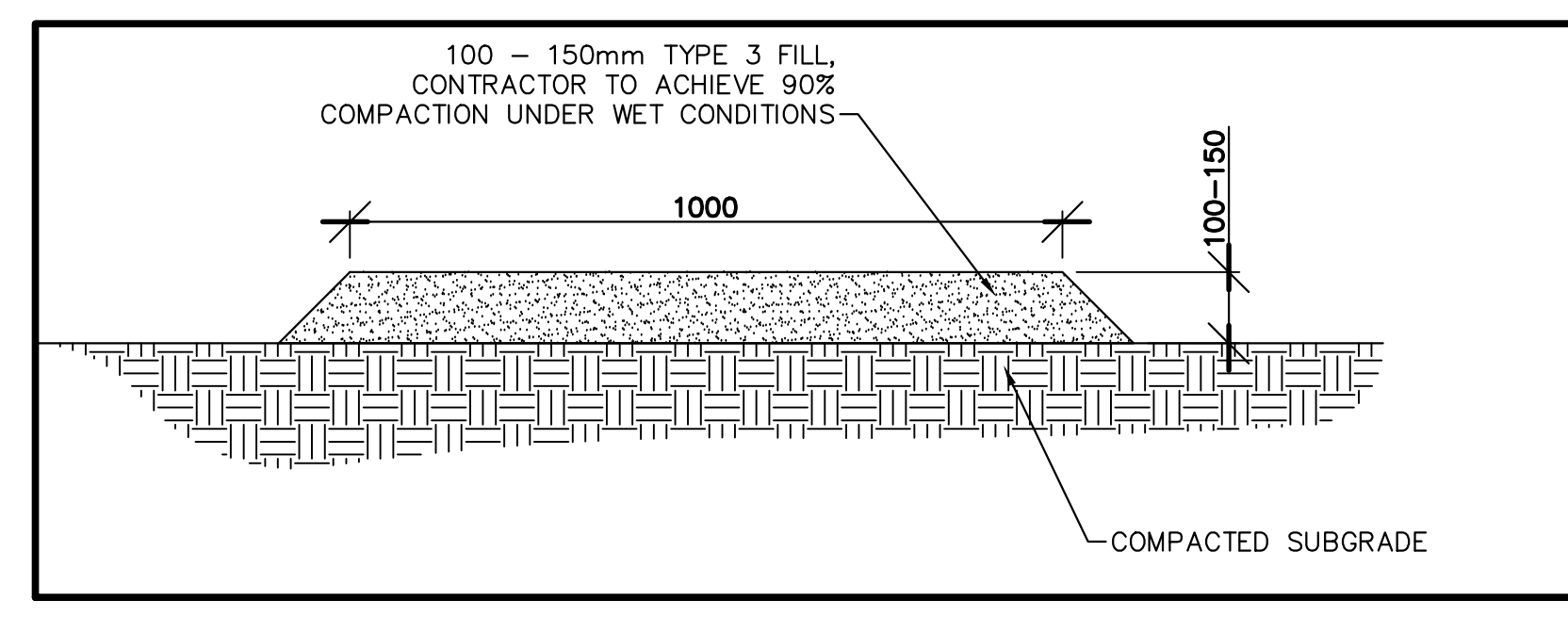
A	ISSUED FOR TENDER	MAR 26 2021
revisions		date
project		projct

**BROAD COVE BIN WALL REMEDIATION
CAPE BRETON HIGHLANDS NATIONAL PARK**

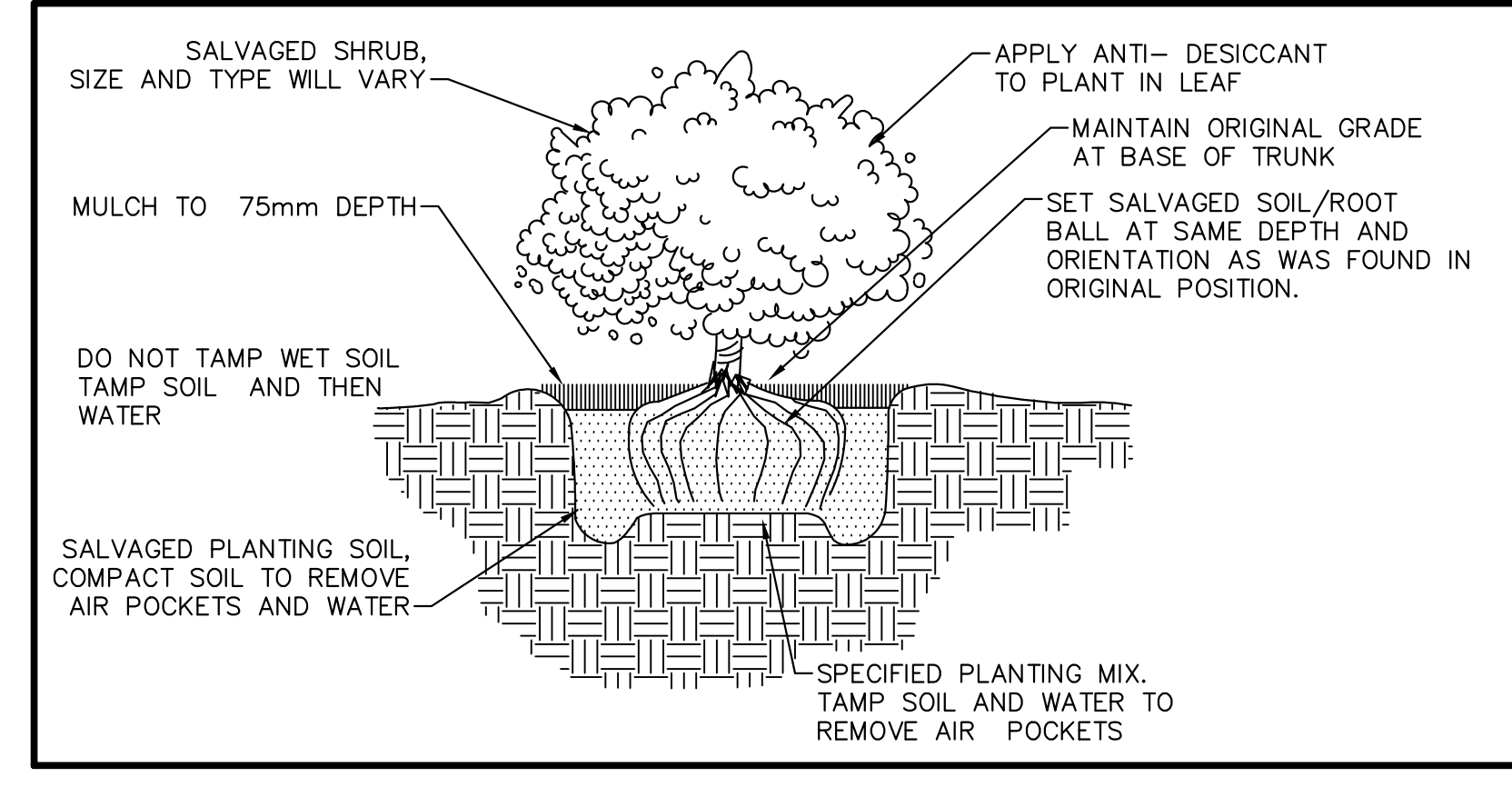
drawing dessin

BIN WALL SLOPE STABILIZATION DETAILS

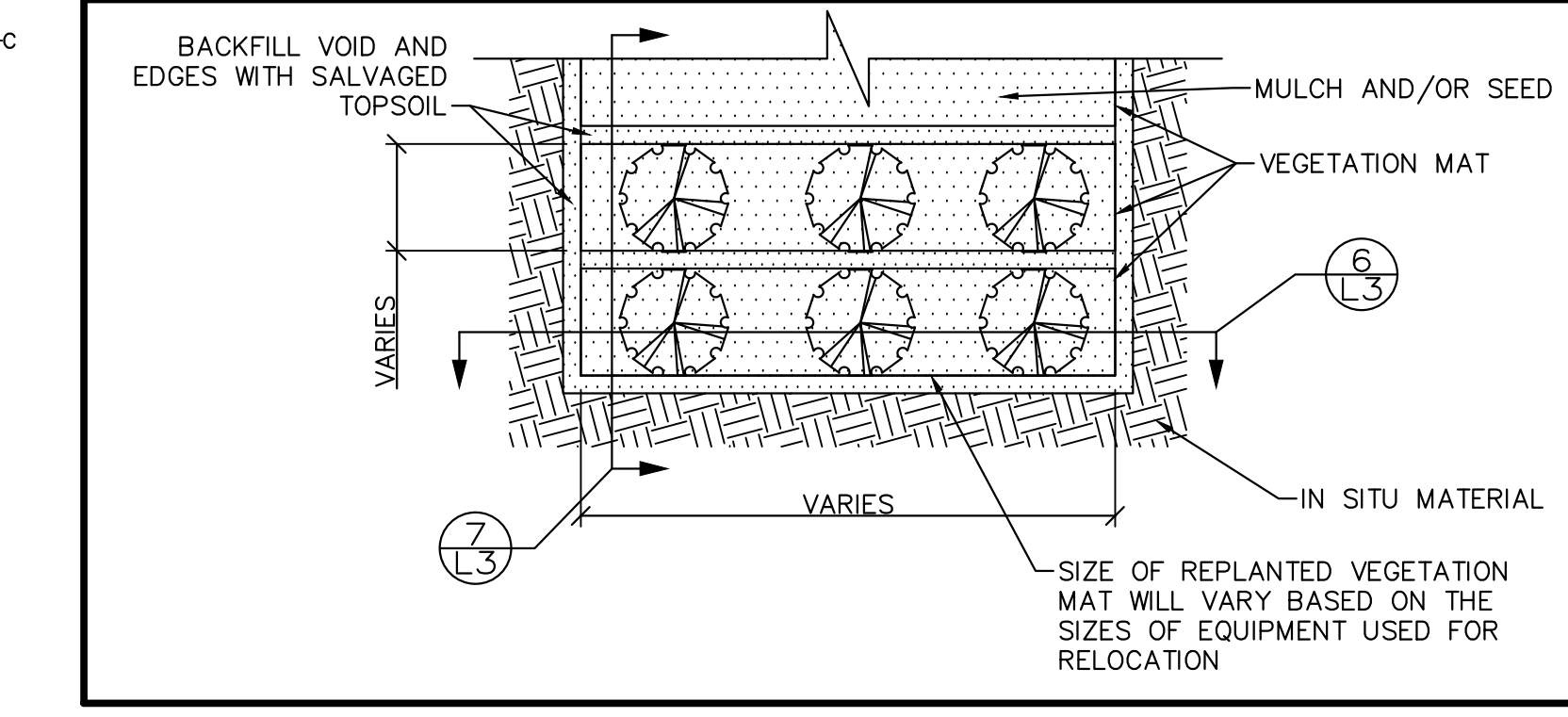
designed	B. PARKER	conçu
date	MARCH 26 2021	
drawn	M. BEATTIE	dessiné
date	MARCH 26 2021	
approved	B. PARKER	approuvé
date	MARCH 26 2021	
Tender		Soumission
FWGSC Project Manager	Administrateur de projets TPSGC	
project number		no. du projet
	2039	
drawing no.		no. du dessin
	L3	



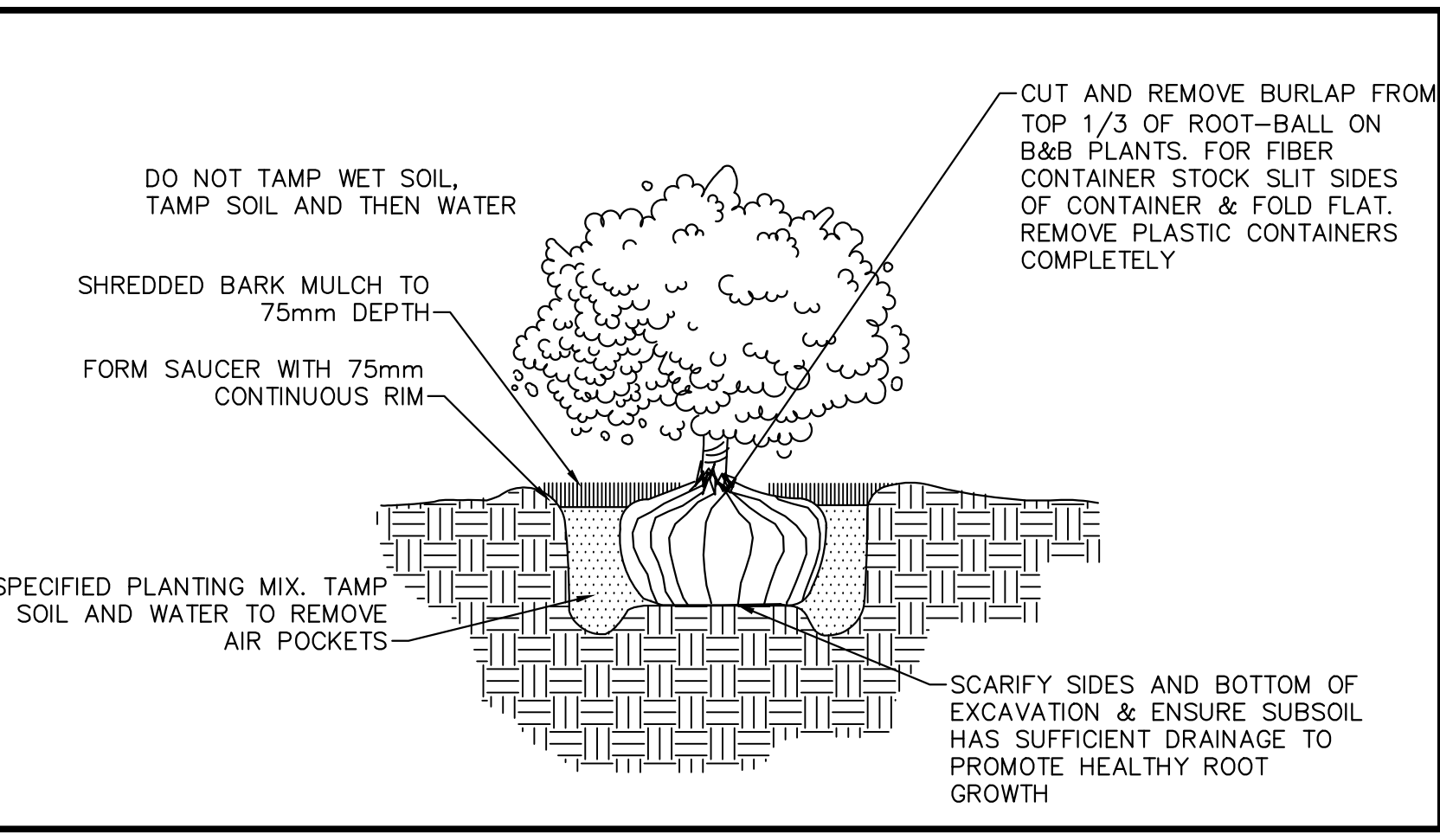
1 SALVAGED SHRUB RELOCATION
SCALE: 1:10



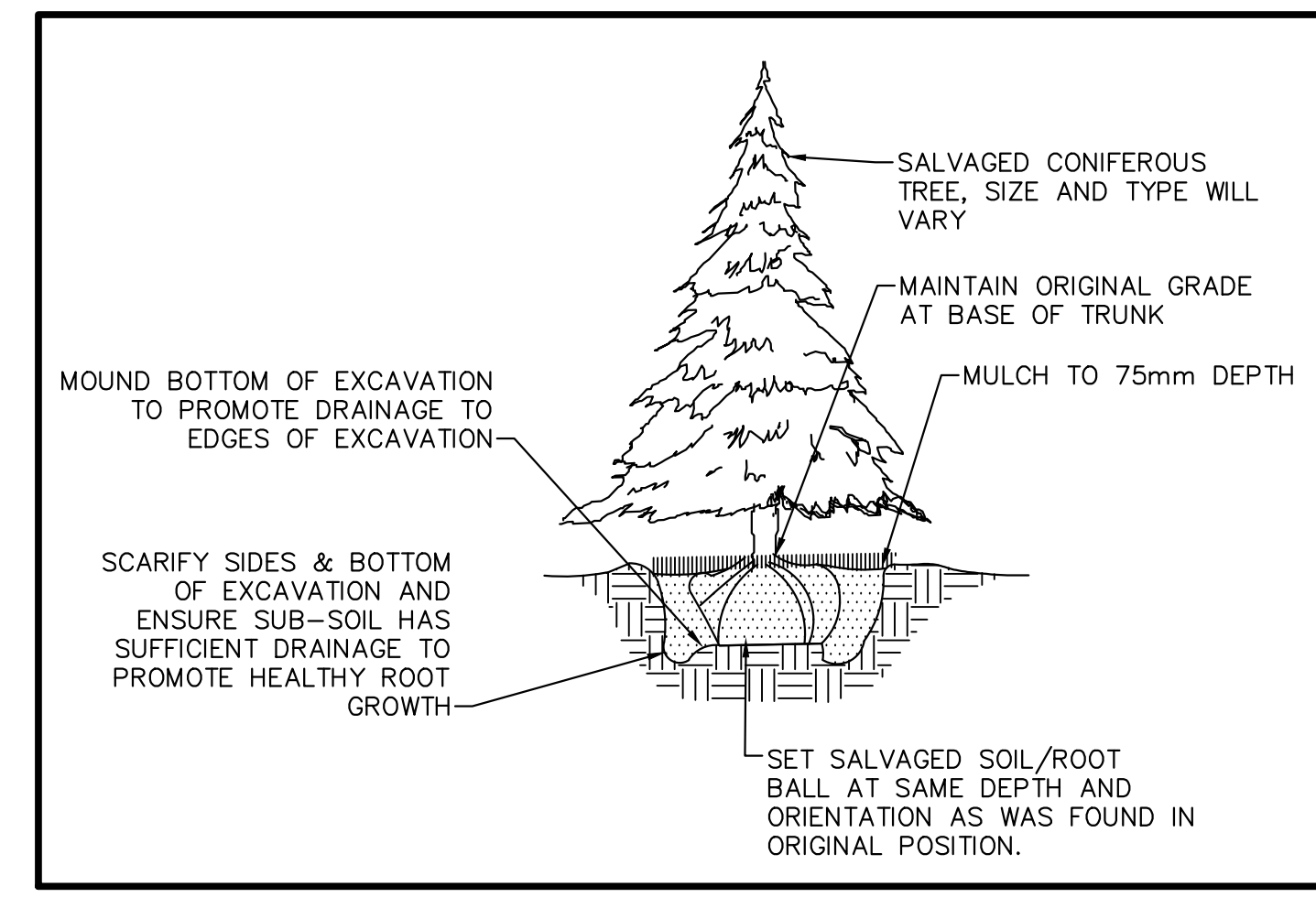
2 SALVAGED SHRUB RELOCATION
NOT TO SCALE



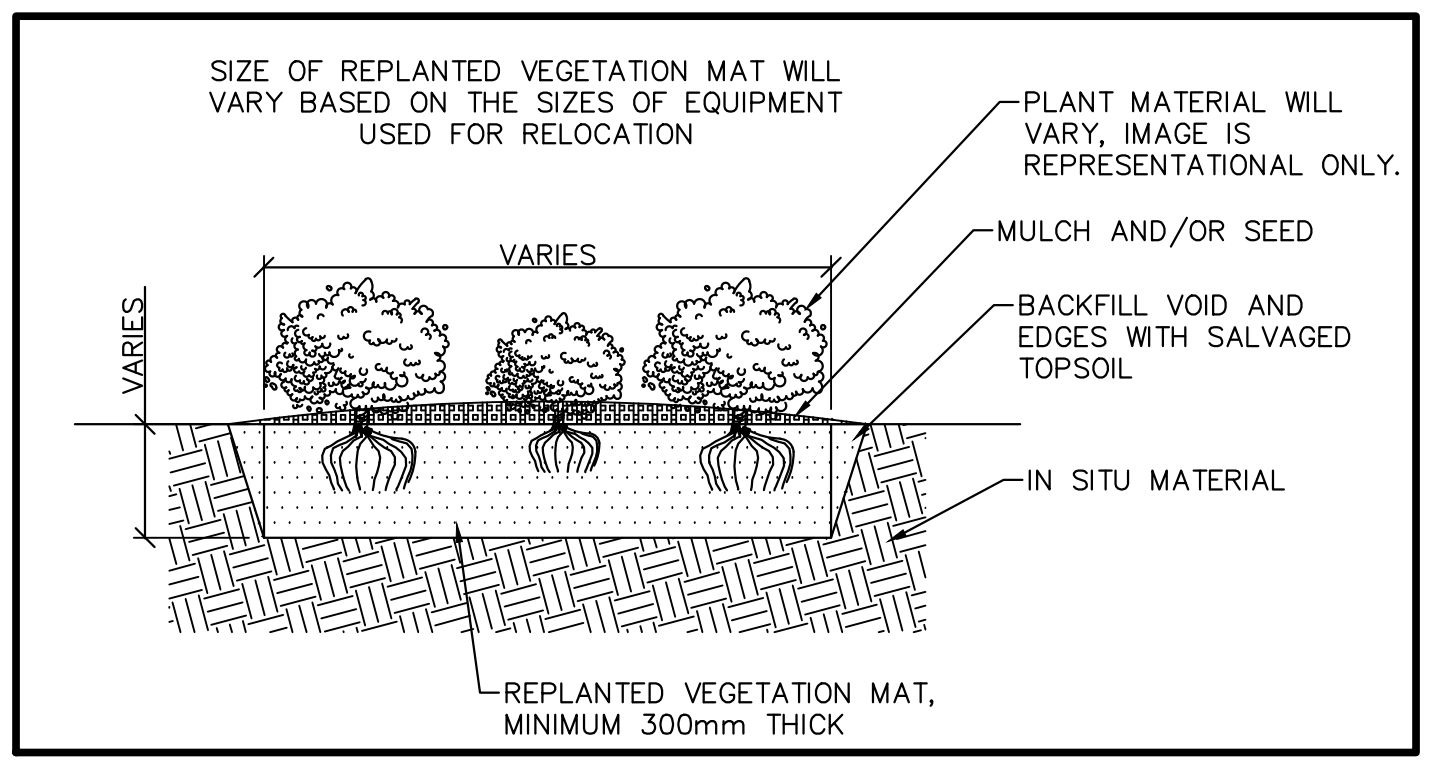
5 PLANTING MAT PLAN VIEW (TYP.)
SCALE 1:20



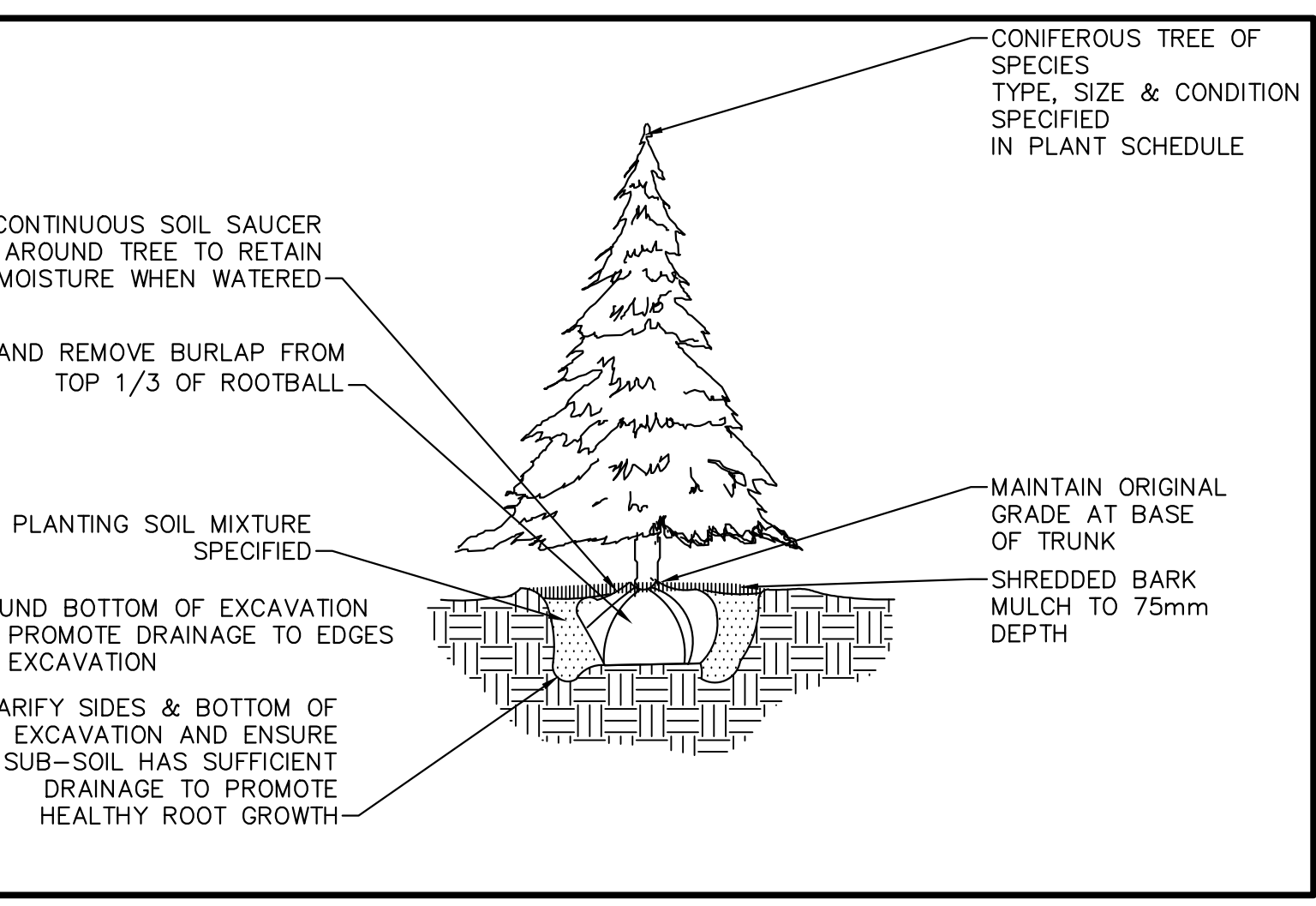
8 SHRUB PLANTING
NOT TO SCALE



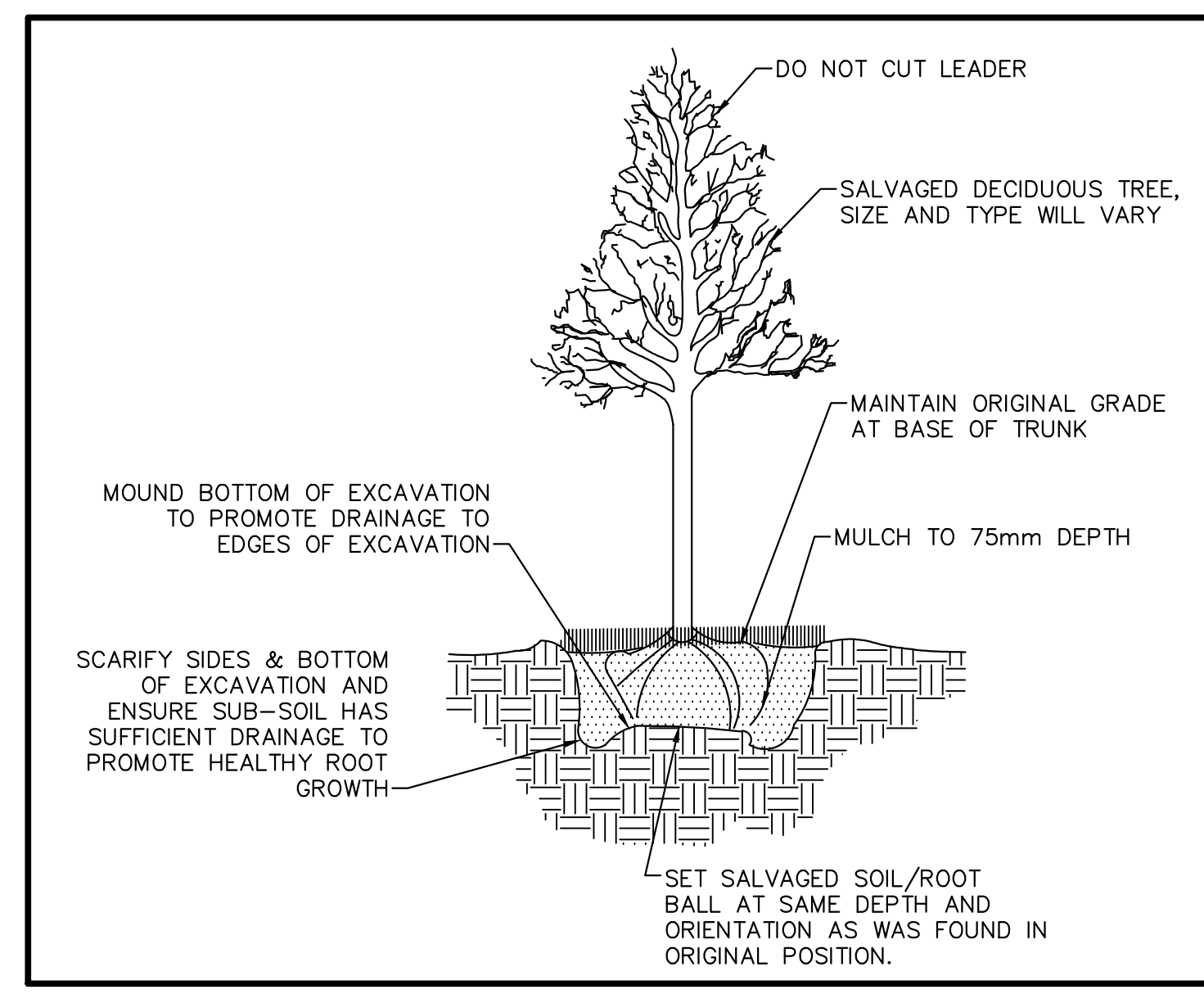
3 SALVAGED CONIFEROUS TREE RELOCATION
NOT TO SCALE



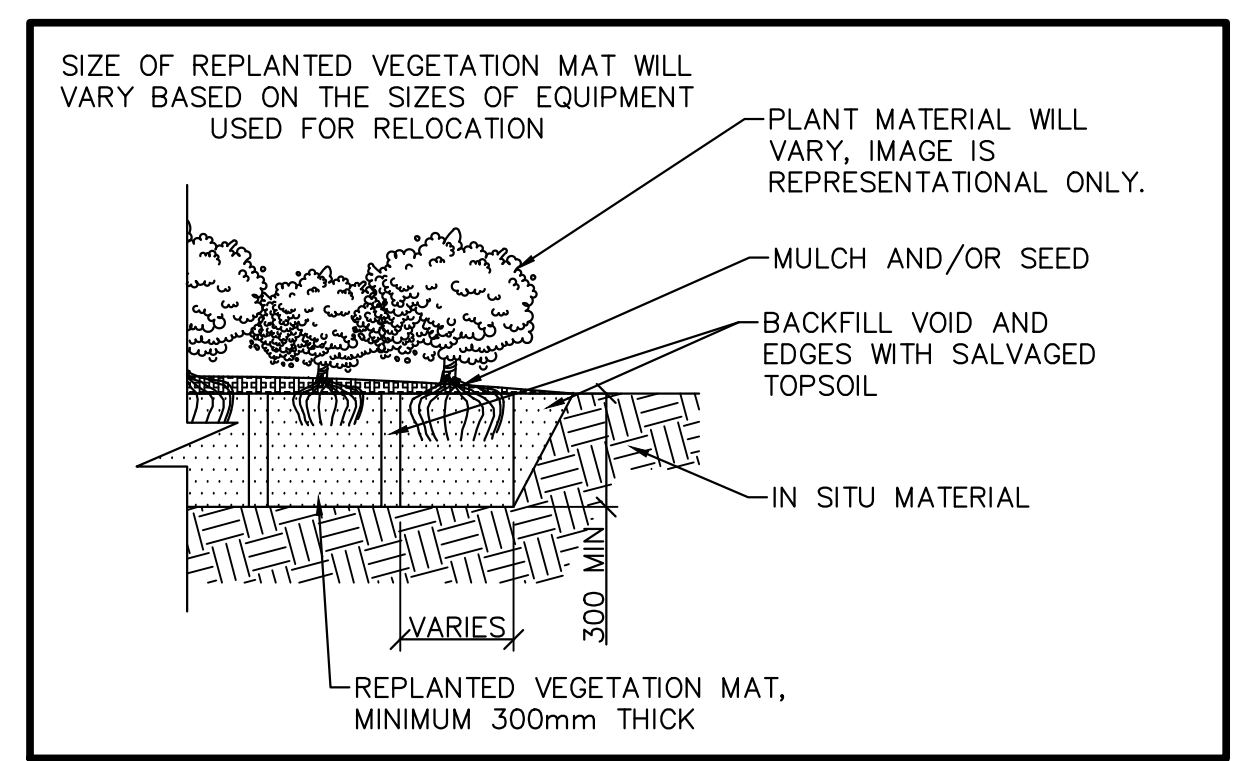
6 PLANTING MAT SECTION (TYP.)
SCALE 1:20



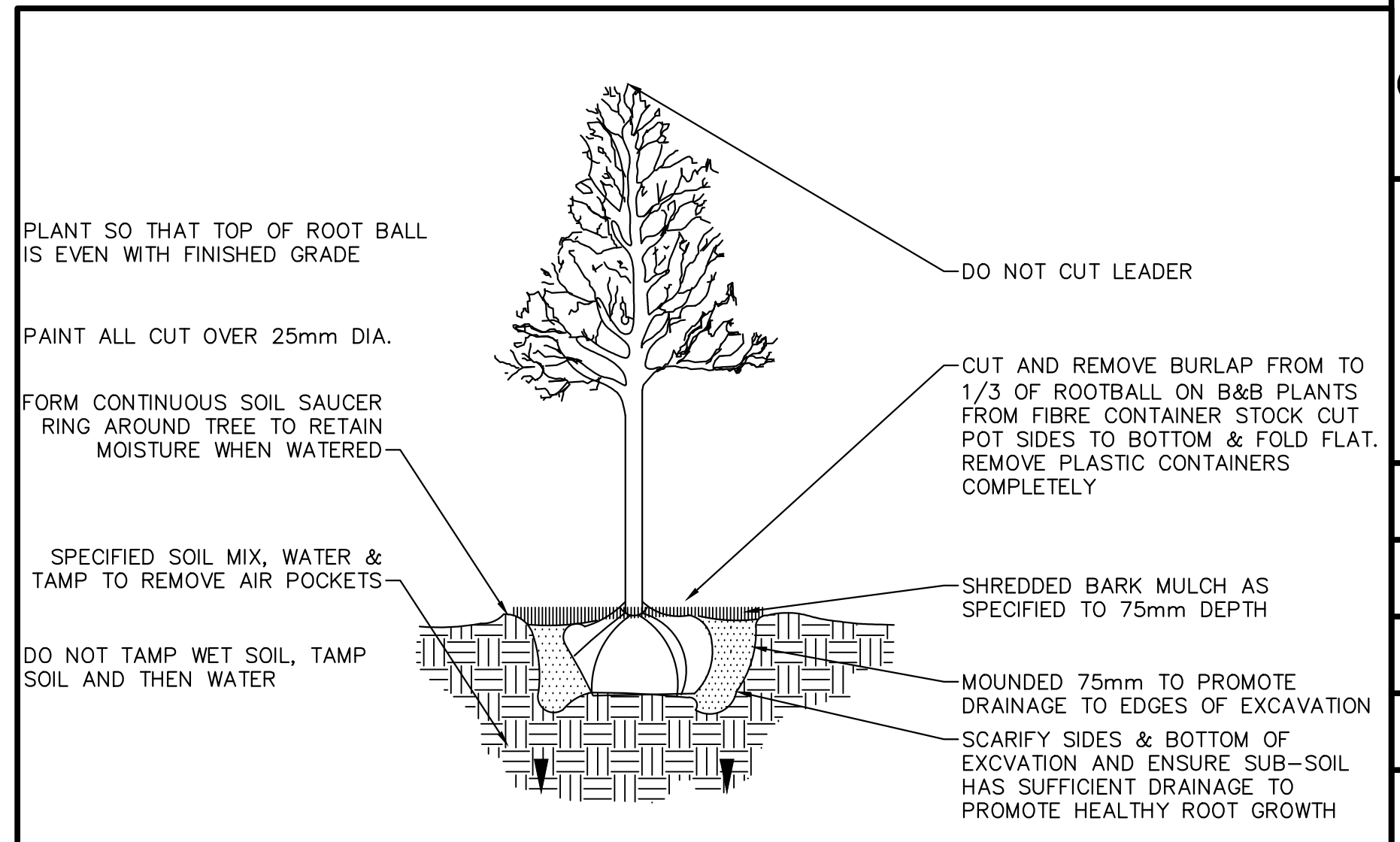
9 CONIFEROUS TREE PLANTING
NOT TO SCALE



4 SALVAGED DECIDUOUS TREE RELOCATION
NOT TO SCALE



7 PLANTING MAT SECTION (TYP.)
SCALE 1:20



10 DECIDUOUS TREE PLANTING
NOT TO SCALE