





-  EXISTING GRAVEL DRIVEWAY
-  EXISTING ASPHALT DRIVEWAY
-  PROPOSED TRAIL


PREPARED FOR: 	PREPARED BY: ONSITE ENGINEERING LTD. www.onsite-engineering.ca COURTENAY OFFICE #201- 780 GRANT AVENUE COURTENAY, BC V9N 2T3 PH.: 778-647-5643 FAX: 866-235-6943 EGBC PERMIT TO PRACTICE No.: 1002678
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TRAIL LAYOUT FOR THE DENMAN ISLAND TRAIL

DWG No:1077-21-000	SHEET: 1 OF 25
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DESIGN BY: MICHAEL HANSON, P.ENG.
 DESIGN DATE: MARCH 29, 2022
 REVIEWED BY: JEREMY ARAKI, P.ENG.
 DRAWN BY: STEFANIE NOACK
 SITE VISIT: ONSITE ENGINEERING LTD.
 SITE VISIT DATES: DECEMBER 23, 2021
 FILE NAME: 1077-21 DENMANTRAIL.DWG
 SCALE: AS NOTED
 REVISION NUMBER: 4
 REVISION DATE: OCTOBER 27, 2022
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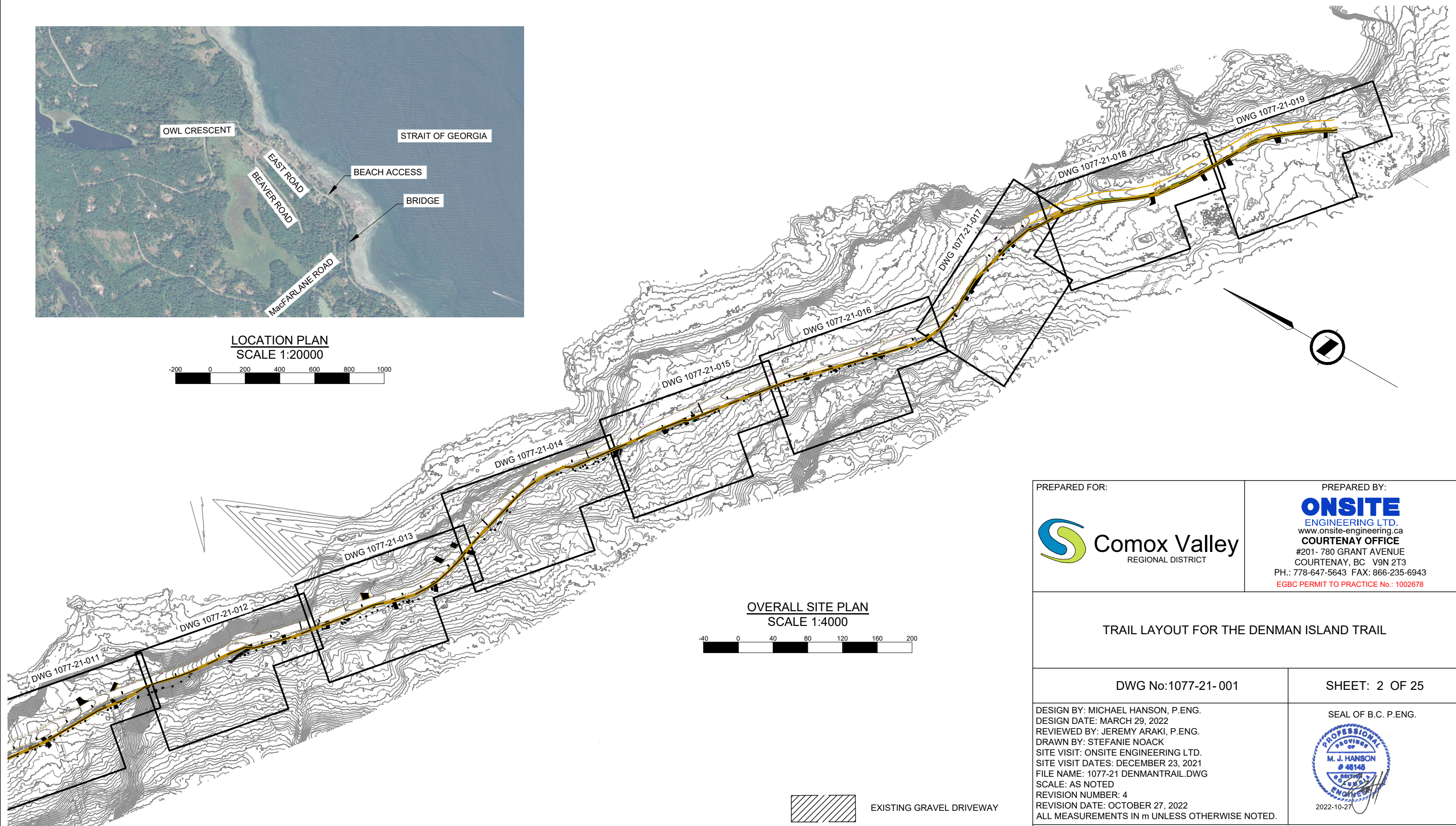
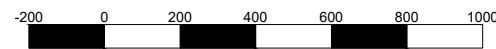
SEAL OF B.C. P.ENG.



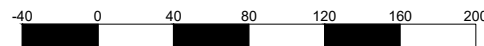
EDGE OF DITCH	---	WATER VALVE	
DITCH CENTERLINE	---	FIRE HYDRANT	
EDGE OF GRAVEL	---	WATER SERVICE	
EDGE OF PAVEMENT	---	IRRIGATION CONTROL VALVE	
FENCE	---	UTILITY POLE	
SIGN		GUY WIRE ANCHOR	
IRON PIN	●	SURVEY MONUMENT	






LOCATION PLAN
SCALE 1:20000



OVERALL SITE PLAN
SCALE 1:4000



-  EXISTING GRAVEL DRIVEWAY
-  EXISTING ASPHALT DRIVEWAY
-  PROPOSED TRAIL

PREPARED FOR:



PREPARED BY:

ONSITE
ENGINEERING LTD.

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COURTENAY OFFICE

#201- 780 GRANT AVENUE

COURTENAY, BC V9N 2T3

PH.: 778-647-5643 FAX: 866-235-6943

EGBC PERMIT TO PRACTICE No.: 1002678

TRAIL LAYOUT FOR THE DENMAN ISLAND TRAIL

DWG No:1077-21-001









SHEET: 2 OF 25

DESIGN BY: MICHAEL HANSON, P.ENG.
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SEAL OF B.C. P.ENG.



2022-10-27




EDGE OF DITCH	---	WATER VALVE	
DITCH CENTERLINE	---	FIRE HYDRANT	
EDGE OF GRAVEL	---	WATER SERVICE	
EDGE OF PAVEMENT	---	IRRIGATION CONTROL VALVE	
FENCE	-x-	UTILITY POLE	
SIGN		GUY WIRE ANCHOR	
IRON PIN	•	SURVEY MONUMENT	

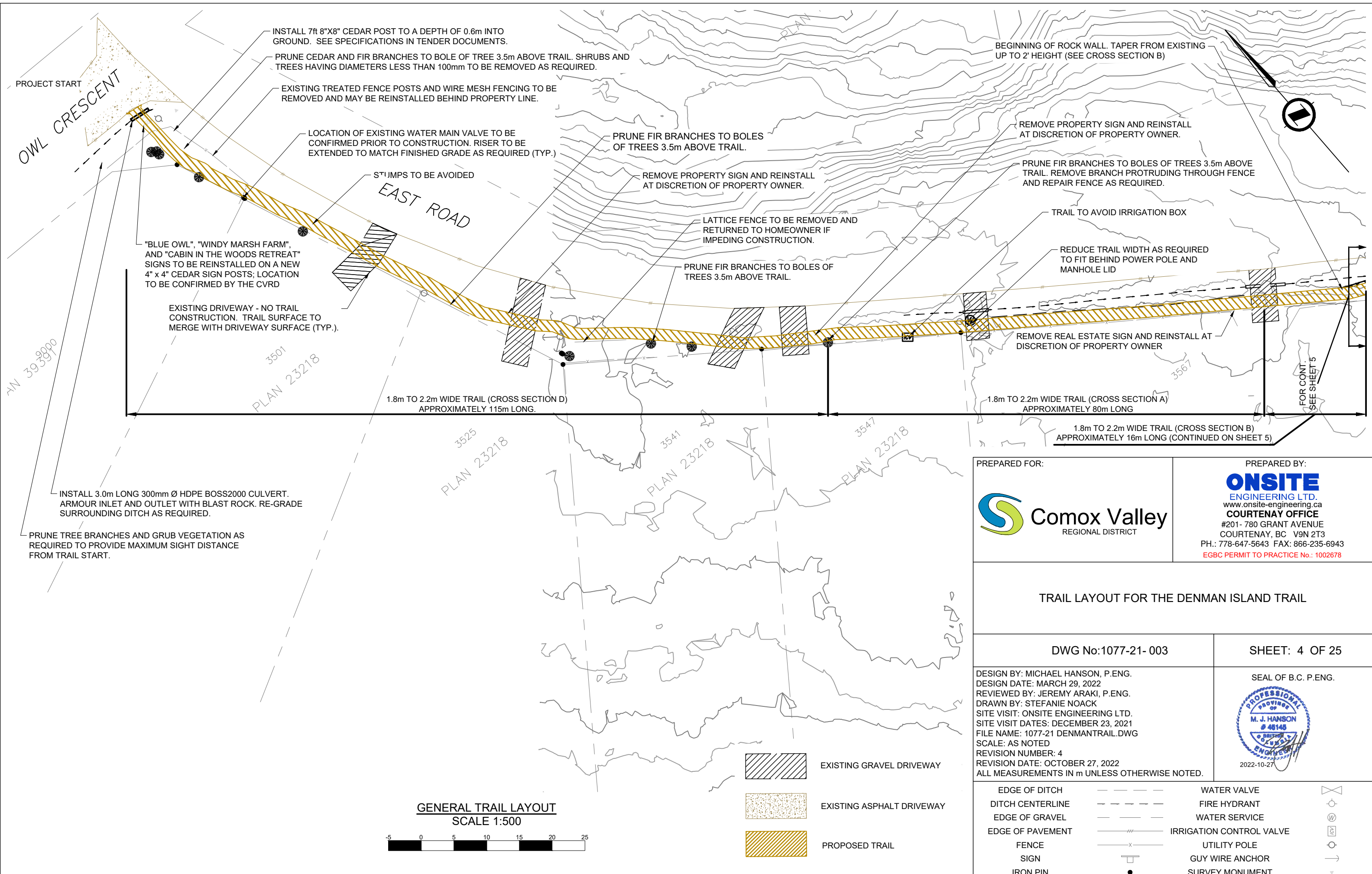
GENERAL NOTES:

1. CONTACT BCI AND HAVE ALL UTILITIES MARKED PRIOR TO EXCAVATION. NOTE THAT WHERE EXCAVATION SPECIFICATIONS ON THESE DRAWINGS CONFLICT WITH WORKSAFE BC REGULATIONS, WORKSAFE BC REGULATIONS ARE TO GOVERN.
2. MINIMIZE ANY EXCAVATION OF THE EXISTING DITCHES. EXCAVATED DITCH SLOPES MUST MATCH EXISTING DITCH GRADE. THE PREFERRED DITCH SLOPE IS 4H:1V IF UNABLE TO MATCH EXISTING DITCH SLOPE.
3. ANY EXCAVATED DITCH SLOPES MUST BE REVEGETATED IMMEDIATELY WITH GRASS SEED.
4. TRAIL SURFACE ELEVATIONS MUST MATCH WITH EXISTING DRIVEWAY ELEVATIONS.
5. COMPACT ALL TRAIL SURFACE TO APPROXIMATELY 95% STANDARD PROCTOR DRY DENSITY. TESTING IS NOT REQUIRED. COMPACTION/COMPACTION METHODOLOGY MUST BE APPROVED BY THE DESIGN ENGINEER OR THEIR DESIGNATE.
6. ALL FILLS ARE IMPORTED GRANULAR PIT RUN GRAVEL LOCATED ON SWAN ROAD, DENMAN ISLAND.
7. HYDROSEED ANY DISTURBED AREAS AND STRIP ALONG CROSS SECTION D WITH QUALITY SEEDS ORCHARD STAR MIX.
8. SUBMITTALS: SAFETY PLAN, PIT RUN GRAVEL, 10mm OR BETTER CRUSHED AGGREGATE SURFACING GRAVEL, AND 19mm ROAD BASE GRAVEL SAMPLES AND SUPPLIER.
9. TESTING WILL BE PROVIDED BY OWNER ON AN AS NEED BASIS.
10. FINAL CLEAN UP TO SATISFACTION OF MINISTRY OF TRANSPORTATION AND INFRASTRUCTURE.
11. NO STEEL TRACKED MACHINES ON ASPHALT WITHOUT PROTECTIVE MATTING.
12. TREES LOCATED WITHIN 1.0m OF THE EDGE OF THE TRAIL AS NOTED ON THE GENERAL TRAIL LAYOUT DRAWINGS SHALL BE PRUNED TO THE BOLES OF THE TREE, 3.5m ABOVE THE FINISHED TRAIL GROUND ELEVATION, UNLESS OTHERWISE NOTED. TREES AND SHRUBS LOCATED FURTHER THAN 1.0m AWAY FROM THE EDGE OF THE TRAIL WHOSE BRANCHES IMPACT THE TRAIL MUST BE PRUNED AT LEAST 1.0m BACK FROM THE EDGE OF THE TRAIL AND 3.5m ABOVE THE FINISHED TRAIL GROUND ELEVATION, UNLESS OTHERWISE NOTED.
13. PREFERRED TRAIL WIDTH IS 2.2m AND IS TO BE ACCOMMODATED WHEREVER POSSIBLE. WHERE NOT POSSIBLE, TRAIL WIDTH IS TO BE MAXIMIZED, AND IN ACCORDANCE WITH THE DRAWINGS AND SPECIFICATIONS.

THE CONTRACTOR SHALL:

1. AS PER SECTION 20.0, GIVE ALL NECESSARY NOTICES, IDENTIFY ALL UNDERGROUND AND ABOVE GROUND SERVICES AND COMPLY WITH ALL RELATED CONSTRUCTION AND DIGGING GUIDELINES.
2. BE AWARE THAT IN THE EVENT THAT AN ACTIVITY OR EVENT OCCURS WHICH CONTRAVENES THE TERMS OF THE CONTRACT, THE CVRD MAY ISSUE A STOP WORK ORDER DIRECTING THE IMMEDIATE SUSPENSION OF ALL OR A PORTION OF THE ACTIVITIES OF CONCERN, AND MAY UNDERTAKE OR ORDER REMEDIAL MEASURES TO BE CONDUCTED AS DEEMED NECESSARY. THE COST OF ANY WORK STOPPAGES AND/OR REMEDIAL WORKS NECESSARY SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
3. ENSURE ALL CONSTRUCTION EQUIPMENT USED IN CONJUNCTION WITH THE PROJECT IS IN GOOD REPAIR, HAS UNDERGONE A RECENT MECHANICAL INSPECTION AND IS INSPECTED DAILY TO ENSURE THEY ARE FREE OF LEAKS WHICH COULD RELEASE FUEL, OILS, HYDRAULIC FLUIDS, ANTIFREEZE OR OTHER SUBSTANCES DELETERIOUS TO AQUATIC LIFE AND TO THE MARINE ENVIRONMENT. ANY LEAKS SHALL BE REPORTED IMMEDIATELY AND REPAIRED PRIOR TO CONTINUING WORK.
4. BE RESPONSIBLE FOR ALL ENVIRONMENTAL PROTECTION PROCEDURES FOR HANDLING AND STORAGE OF ALL HAZARDOUS MATERIALS INCLUDING OIL, GREASE, AND FUELS. ANY SPILL SHALL BE REPORTED TO THE BC PROVINCIAL EMERGENCY PROGRAM (1-800-663-3456). SPILL CLEAN-UP IS THE RESPONSIBILITY OF THE CONTRACTOR AND SHALL BE DONE IMMEDIATELY AT THE SPILL SITE AND TO ALL AFFECTED SURROUNDING AREAS.
5. BE RESPONSIBLE FOR SEDIMENT AND EROSION CONTROL MEASURES TO PREVENT THE RELEASE OF DELETERIOUS MATERIALS TO AQUATIC HABITAT.
6. PROTECT ALL SURVEY MONUMENTS WITHIN THE PROJECT BOUNDARIES DURING THE COURSE OF THE WORK. SURVEY PINS DISTURBED DURING THE COURSE OF CONSTRUCTION SHALL BE REPLACED BY A BC LAND SURVEYOR AT THE CONTRACTOR'S EXPENSE.
7. KEEP ALL PUBLIC ROADWAYS AFFECTED BY THE WORK IN A CLEAN STATE AT ALL TIMES AND FREE OF EQUIPMENT AND MATERIALS AT ALL TIMES WHEN CONSTRUCTION ACTIVITY IS NOT UNDERWAY. DUST CONTROL MEASURES SHALL ALSO BE EMPLOYED.
8. UNLESS OTHERWISE IDENTIFIED IN THE DRAWINGS, ALL GRASS AREAS TO BE REINSTATED WITH TOPSOIL AND SEEDING TO EXISTING OR BETTER CONDITION. THE CONTRACTOR IS RESPONSIBLE FOR A 1 YEAR MAINTENANCE PERIOD OF ALL WORKS.
9. NOT RECEIVE COMPENSATION FOR ANY LOSSES THE CONTRACTOR MAY INCUR AS A RESULT OF WORK BEING DELAYED OR SUSPENDED FOR REASONS THAT ARE BEYOND THE CONTROL OF THE CVRD. THIS INCLUDES RESTRICTION OF ACCESS TO THE WORK SITE FOR REASONS OF EXTREME FIRE HAZARD OR WEATHER CONDITIONS.
10. DISPOSE OF ALL GRUBBED VEGETATION, PRUNED BRANCHES, EXCAVATED OVERBURDEN, AND ANY OTHER SUCH MATERIALS AT AN APPROVED LOCATION OFF SITE.

PREPARED FOR: 	PREPARED BY:  ENGINEERING LTD. www.onsite-engineering.ca COURTENAY OFFICE #201- 780 GRANT AVENUE COURTENAY, BC V9N 2T3 PH.: 778-647-5643 FAX: 866-235-6943 EGBC PERMIT TO PRACTICE No.: 1002678
TRAIL LAYOUT FOR THE DENMAN ISLAND TRAIL	
DWG No:1077-21-002	SHEET: 3 OF 25
DESIGN BY: MICHAEL HANSON, P.ENG. DESIGN DATE: MARCH 29, 2022 REVIEWED BY: JEREMY ARAKI, P.ENG. DRAWN BY: STEFANIE NOACK SITE VISIT: ONSITE ENGINEERING LTD. SITE VISIT DATES: DECEMBER 23, 2021 FILE NAME: 1077-21 DENMANTRAIL.DWG SCALE: AS NOTED REVISION NUMBER: 4 REVISION DATE: OCTOBER 27, 2022 ALL MEASUREMENTS IN m UNLESS OTHERWISE NOTED.	SEAL OF B.C. P.ENG.  2022-10-27
EDGE OF DITCH - - - - - DITCH CENTERLINE - - - - - EDGE OF GRAVEL - - - - - EDGE OF PAVEMENT - - - - - FENCE - - - - - SIGN - - - - - IRON PIN ●	WATER VALVE ☒ FIRE HYDRANT ⊕ WATER SERVICE ⊕ IRRIGATION CONTROL VALVE ⊕ UTILITY POLE ⊕ GUY WIRE ANCHOR → SURVEY MONUMENT ▼



PROJECT START
OWL CRESCENT

INSTALL 7ft 8"x8" CEDAR POST TO A DEPTH OF 0.6m INTO GROUND. SEE SPECIFICATIONS IN TENDER DOCUMENTS.
PRUNE CEDAR AND FIR BRANCHES TO BOLE OF TREE 3.5m ABOVE TRAIL. SHRUBS AND TREES HAVING DIAMETERS LESS THAN 100mm TO BE REMOVED AS REQUIRED.

EXISTING TREATED FENCE POSTS AND WIRE MESH FENCING TO BE REMOVED AND MAY BE REINSTALLED BEHIND PROPERTY LINE.

LOCATION OF EXISTING WATER MAIN VALVE TO BE CONFIRMED PRIOR TO CONSTRUCTION. RISER TO BE EXTENDED TO MATCH FINISHED GRADE AS REQUIRED (TYP.)

PRUNE FIR BRANCHES TO BOLES OF TREES 3.5m ABOVE TRAIL.

BEGINNING OF ROCK WALL. TAPER FROM EXISTING UP TO 2' HEIGHT (SEE CROSS SECTION B)

REMOVE PROPERTY SIGN AND REINSTALL AT DISCRETION OF PROPERTY OWNER.

PRUNE FIR BRANCHES TO BOLES OF TREES 3.5m ABOVE TRAIL. REMOVE BRANCH PROTRUDING THROUGH FENCE AND REPAIR FENCE AS REQUIRED.

REMOVE PROPERTY SIGN AND REINSTALL AT DISCRETION OF PROPERTY OWNER.

LATTICE FENCE TO BE REMOVED AND RETURNED TO HOMEOWNER IF IMPEDING CONSTRUCTION.

TRAIL TO AVOID IRRIGATION BOX

"BLUE OWL", "WINDY MARSH FARM", AND "CABIN IN THE WOODS RETREAT" SIGNS TO BE REINSTALLED ON A NEW 4" x 4" CEDAR SIGN POSTS; LOCATION TO BE CONFIRMED BY THE CVRD

EXISTING DRIVEWAY - NO TRAIL CONSTRUCTION. TRAIL SURFACE TO MERGE WITH DRIVEWAY SURFACE (TYP.).

PRUNE FIR BRANCHES TO BOLES OF TREES 3.5m ABOVE TRAIL.

REDUCE TRAIL WIDTH AS REQUIRED TO FIT BEHIND POWER POLE AND MANHOLE LID

REMOVE REAL ESTATE SIGN AND REINSTALL AT DISCRETION OF PROPERTY OWNER

1.8m TO 2.2m WIDE TRAIL (CROSS SECTION D) APPROXIMATELY 115m LONG.

1.8m TO 2.2m WIDE TRAIL (CROSS SECTION A) APPROXIMATELY 80m LONG

1.8m TO 2.2m WIDE TRAIL (CROSS SECTION B) APPROXIMATELY 16m LONG (CONTINUED ON SHEET 5)

N 39° 30' 00"

PLAN 23218

PLAN 23218

PLAN 23218

PLAN 23218

FOR CONT. SEE SHEET 5

INSTALL 3.0m LONG 300mm Ø HDPE BOSS2000 CULVERT. ARMOUR INLET AND OUTLET WITH BLAST ROCK. RE-GRADE SURROUNDING DITCH AS REQUIRED.

PRUNE TREE BRANCHES AND GRUB VEGETATION AS REQUIRED TO PROVIDE MAXIMUM SIGHT DISTANCE FROM TRAIL START.

PREPARED FOR:



PREPARED BY:

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TRAIL LAYOUT FOR THE DENMAN ISLAND TRAIL

DWG No: 1077-21- 003




SHEET: 4 OF 25

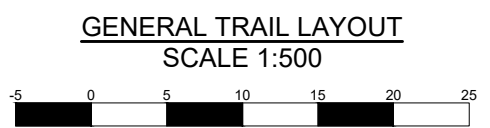
DESIGN BY: MICHAEL HANSON, P.ENG.
DESIGN DATE: MARCH 29, 2022
REVIEWED BY: JEREMY ARAKI, P.ENG.
DRAWN BY: STEFANIE NOACK
SITE VISIT: ONSITE ENGINEERING LTD.
SITE VISIT DATES: DECEMBER 23, 2021
FILE NAME: 1077-21 DENMANTRAIL.DWG
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

SEAL OF B.C. P.ENG.

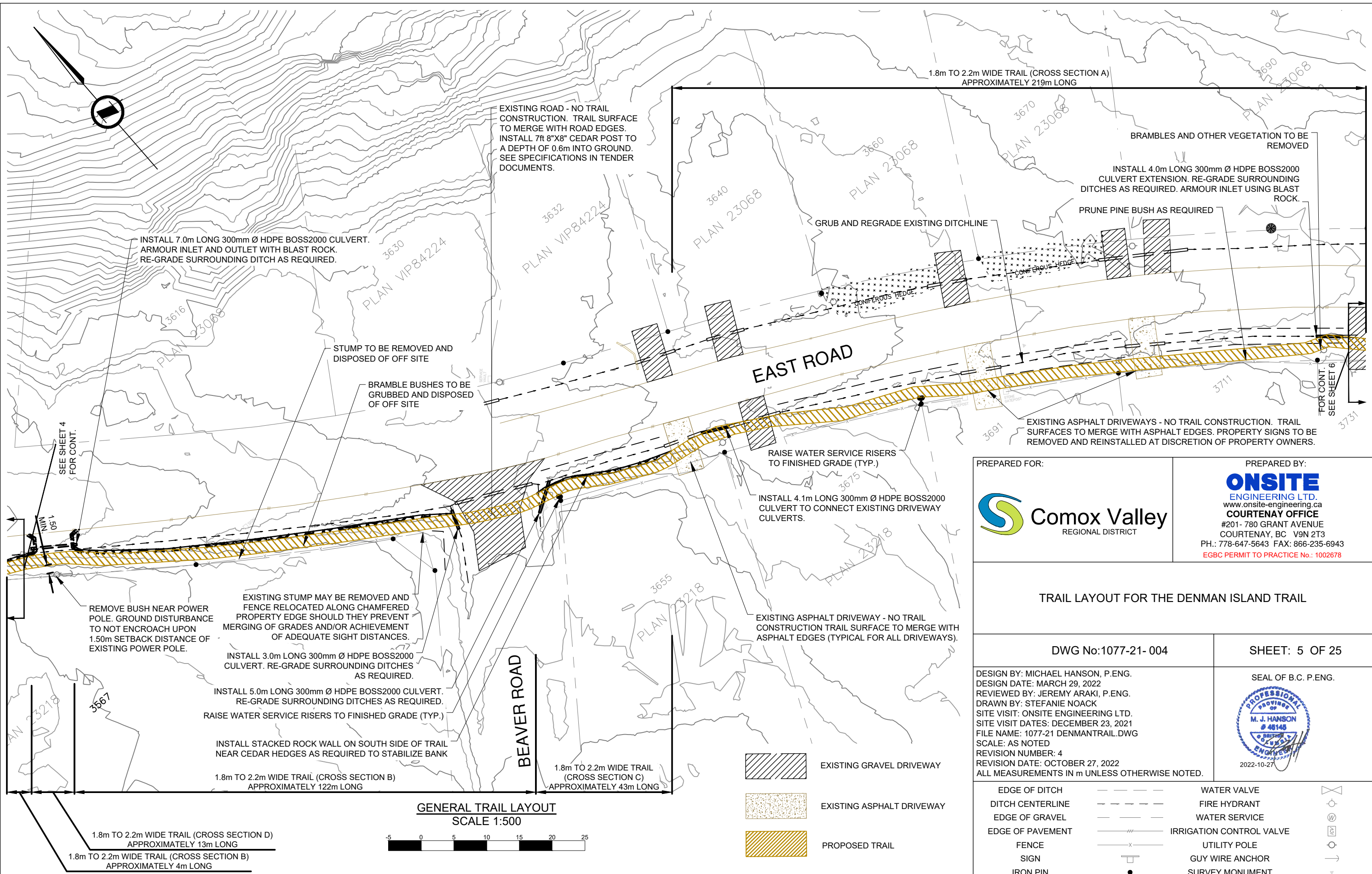


2022-10-27

-  EXISTING GRAVEL DRIVEWAY
-  EXISTING ASPHALT DRIVEWAY
-  PROPOSED TRAIL



EDGE OF DITCH	---	WATER VALVE	
DITCH CENTERLINE	---	FIRE HYDRANT	
EDGE OF GRAVEL	---	WATER SERVICE	
EDGE OF PAVEMENT	---	IRRIGATION CONTROL VALVE	
FENCE	---	UTILITY POLE	
SIGN		GUY WIRE ANCHOR	
IRON PIN	●	SURVEY MONUMENT	



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TRAIL LAYOUT FOR THE DENMAN ISLAND TRAIL

DWG No: 1077-21- 004

SHEET: 5 OF 25

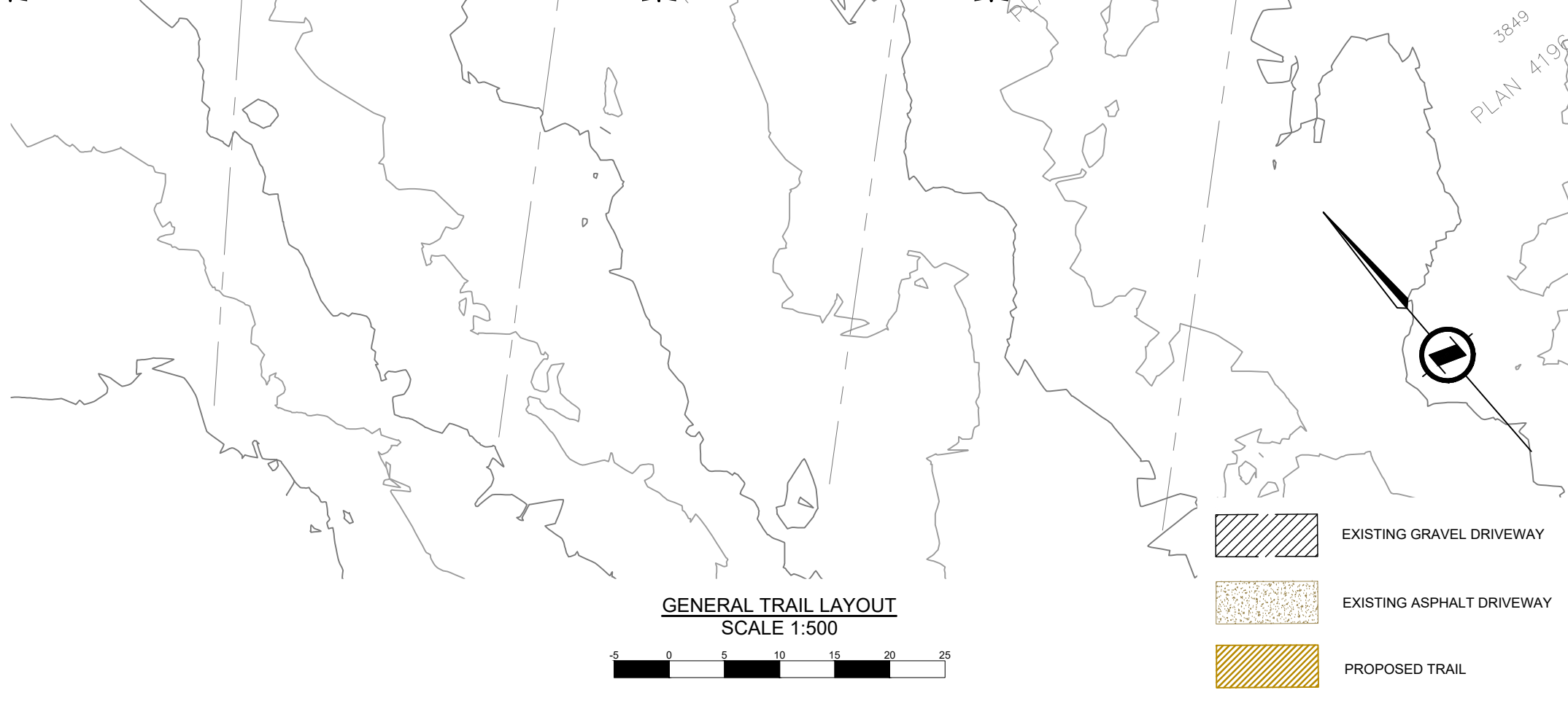
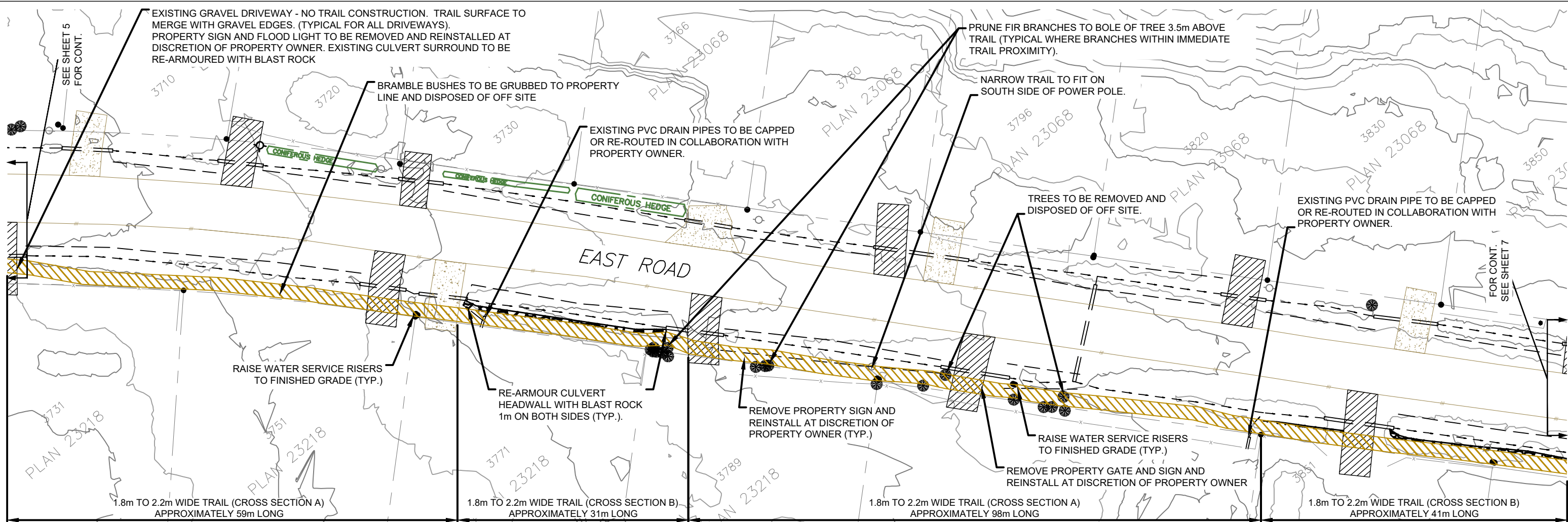
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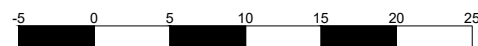
2022-10-27




EDGE OF DITCH	---	WATER VALVE	⊗
DITCH CENTERLINE	- - - -	FIRE HYDRANT	⊙
EDGE OF GRAVEL	---	WATER SERVICE	⊕
EDGE OF PAVEMENT	///	IRRIGATION CONTROL VALVE	⊞
FENCE	-x-	UTILITY POLE	⊙
SIGN	⊞	GUY WIRE ANCHOR	→
IRON PIN	●	SURVEY MONUMENT	▽













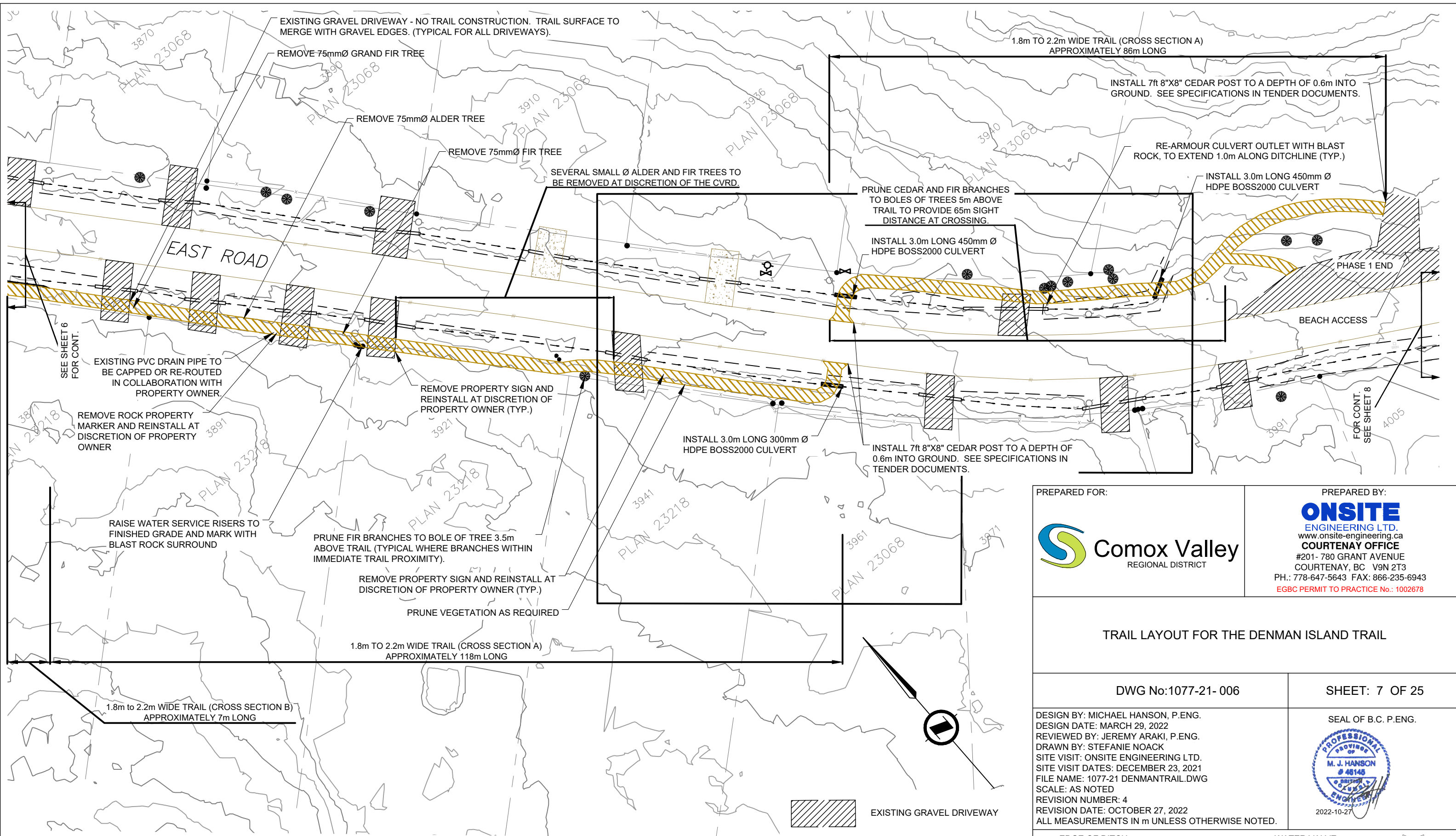


GENERAL TRAIL LAYOUT
SCALE 1:500



-  EXISTING GRAVEL DRIVEWAY
-  EXISTING ASPHALT DRIVEWAY
-  PROPOSED TRAIL

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TRAIL LAYOUT FOR THE DENMAN ISLAND TRAIL	
DWG No: 1077-21- 005	SHEET: 6 OF 25
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SEAL OF B.C. P.ENG.  2022-10-27	
EDGE OF DITCH - - - - - DITCH CENTERLINE - - - - - EDGE OF GRAVEL - - - - - EDGE OF PAVEMENT - - - - - FENCE - x - - - SIGN  IRON PIN ●	WATER VALVE  FIRE HYDRANT  WATER SERVICE  IRRIGATION CONTROL VALVE  UTILITY POLE  GUY WIRE ANCHOR  SURVEY MONUMENT 



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TRAIL LAYOUT FOR THE DENMAN ISLAND TRAIL

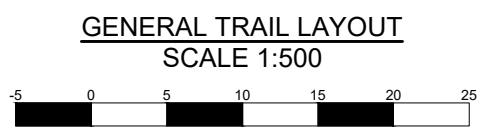
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SHEET: 7 OF 25

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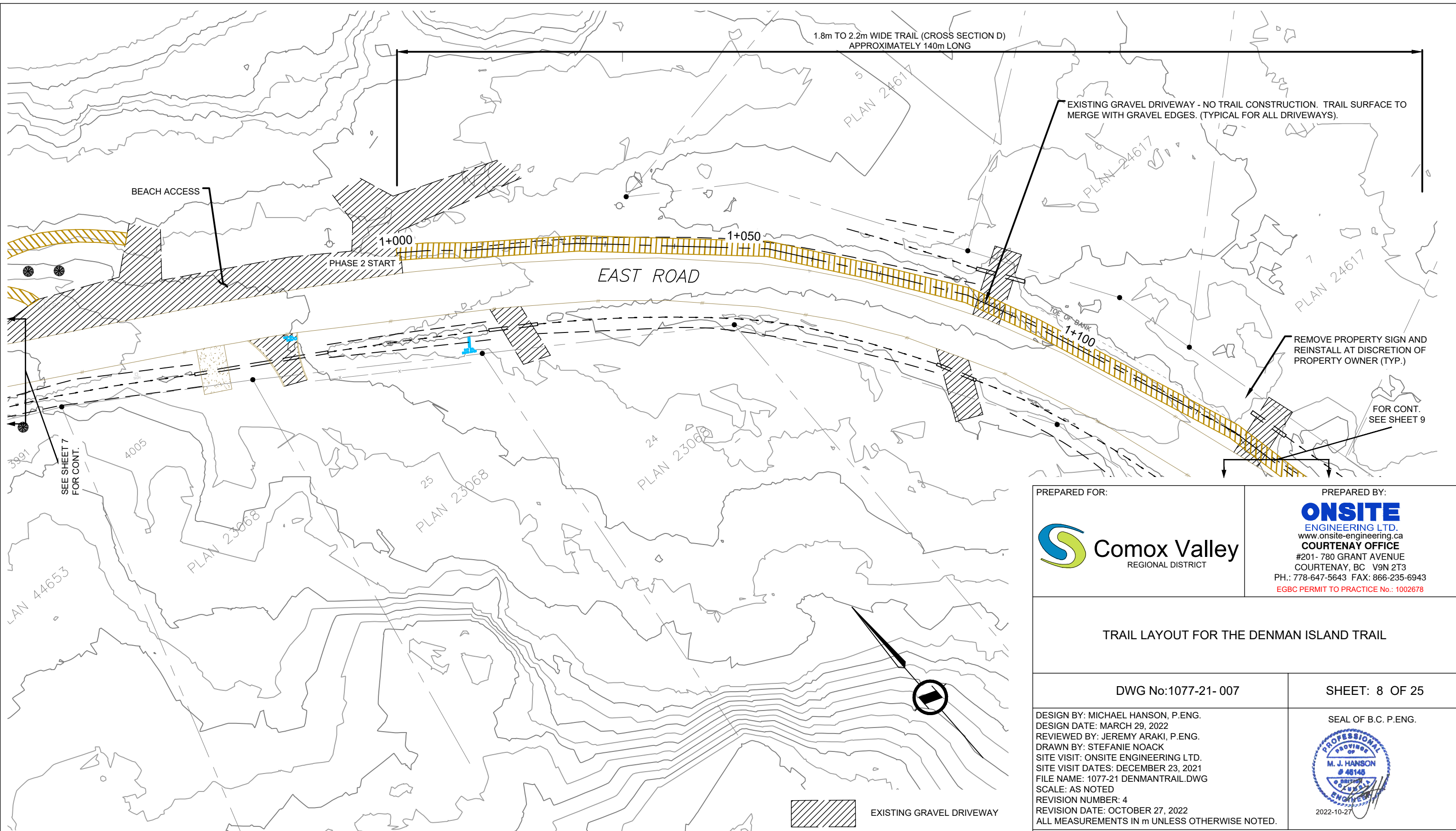
SEAL OF B.C. P.ENG.

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FENCE	-x-	UTILITY POLE	
SIGN		GUY WIRE ANCHOR	
IRON PIN	•	SURVEY MONUMENT	



SEE SHEET 7 FOR CONT.




EXISTING GRAVEL DRIVEWAY - NO TRAIL CONSTRUCTION. TRAIL SURFACE TO MERGE WITH GRAVEL EDGES. (TYPICAL FOR ALL DRIVEWAYS).


REMOVE PROPERTY SIGN AND REINSTALL AT DISCRETION OF PROPERTY OWNER (TYP.)

FOR CONT. SEE SHEET 9

GENERAL TRAIL LAYOUT
SCALE 1:500



-  EXISTING GRAVEL DRIVEWAY
-  EXISTING ASPHALT DRIVEWAY
-  PROPOSED TRAIL


PREPARED FOR:  Comox Valley REGIONAL DISTRICT	PREPARED BY: ONSITE ENGINEERING LTD. www.onsite-engineering.ca COURTENAY OFFICE #201- 780 GRANT AVENUE COURTENAY, BC V9N 2T3 PH.: 778-647-5643 FAX: 866-235-6943 EGBC PERMIT TO PRACTICE No.: 1002678
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TRAIL LAYOUT FOR THE DENMAN ISLAND TRAIL

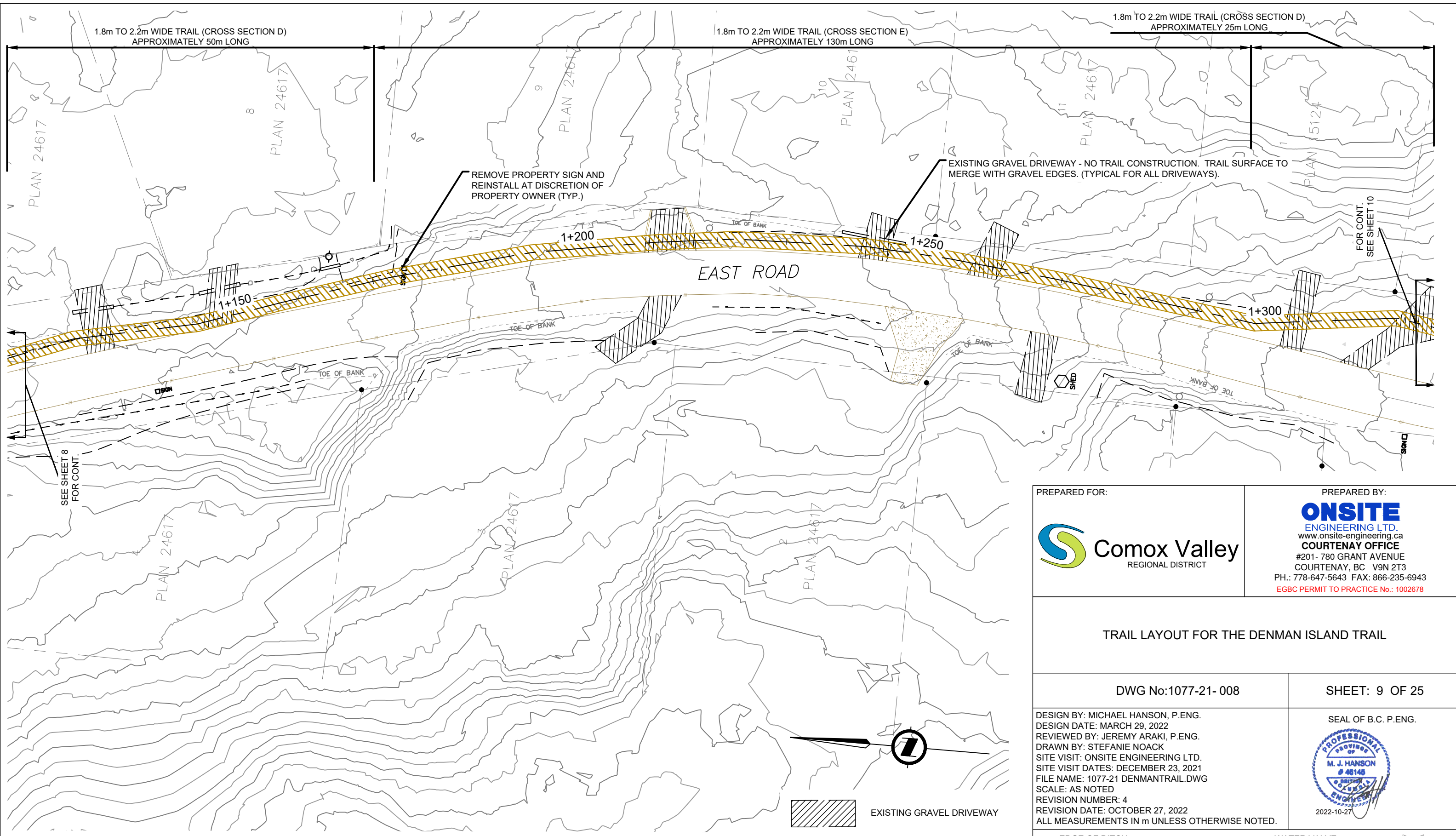
DWG No:1077-21- 007	SHEET: 8 OF 25
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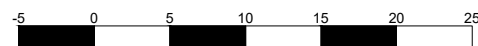
SEAL OF B.C. P.ENG.






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DITCH CENTERLINE	---	FIRE HYDRANT	⊙
EDGE OF GRAVEL	---	WATER SERVICE	⊕
EDGE OF PAVEMENT	---	IRRIGATION CONTROL VALVE	⊞
FENCE	---	UTILITY POLE	⊙
SIGN	---	GUY WIRE ANCHOR	→
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GENERAL TRAIL LAYOUT
SCALE 1:500



-  EXISTING GRAVEL DRIVEWAY
-  EXISTING ASPHALT DRIVEWAY
-  PROPOSED TRAIL

PREPARED FOR:



PREPARED BY:

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TRAIL LAYOUT FOR THE DENMAN ISLAND TRAIL









DWG No:1077-21- 008

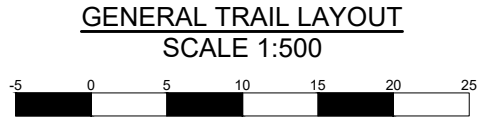
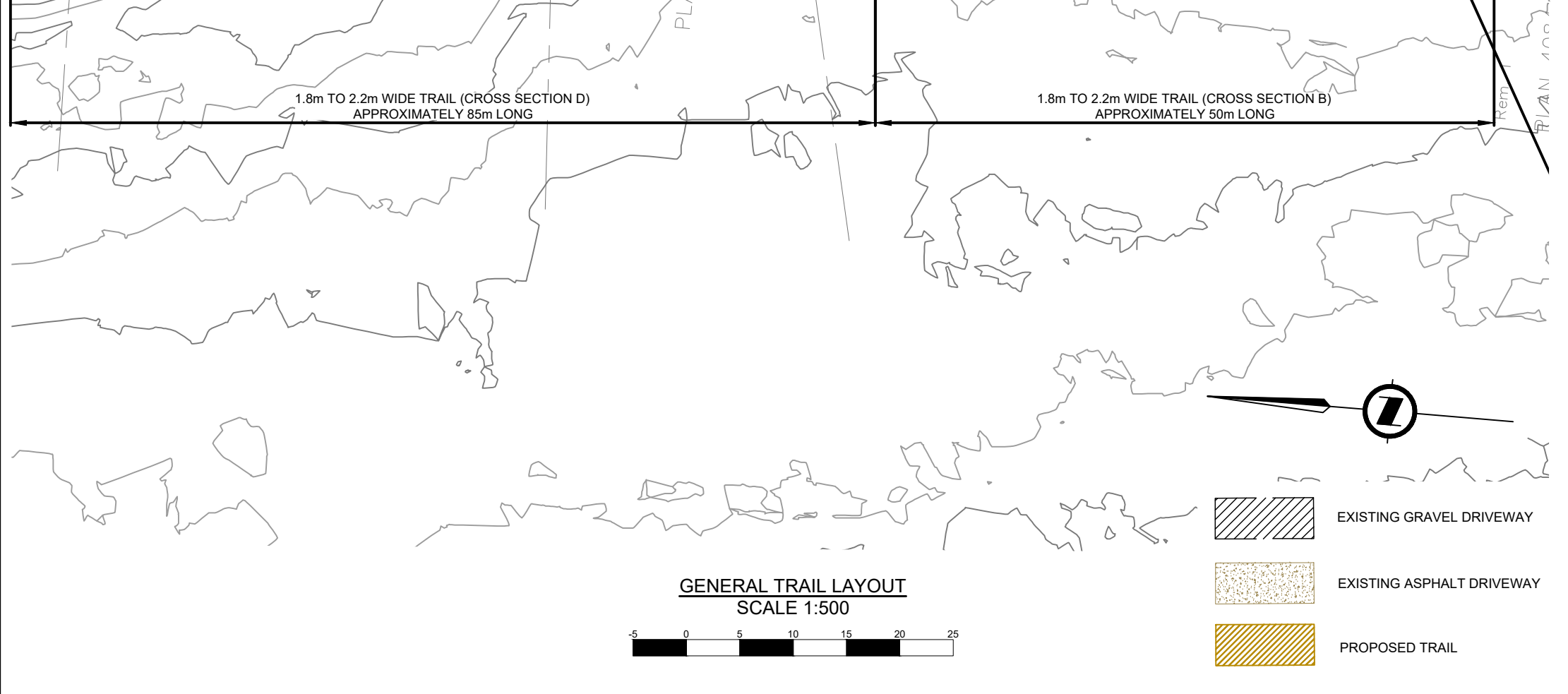
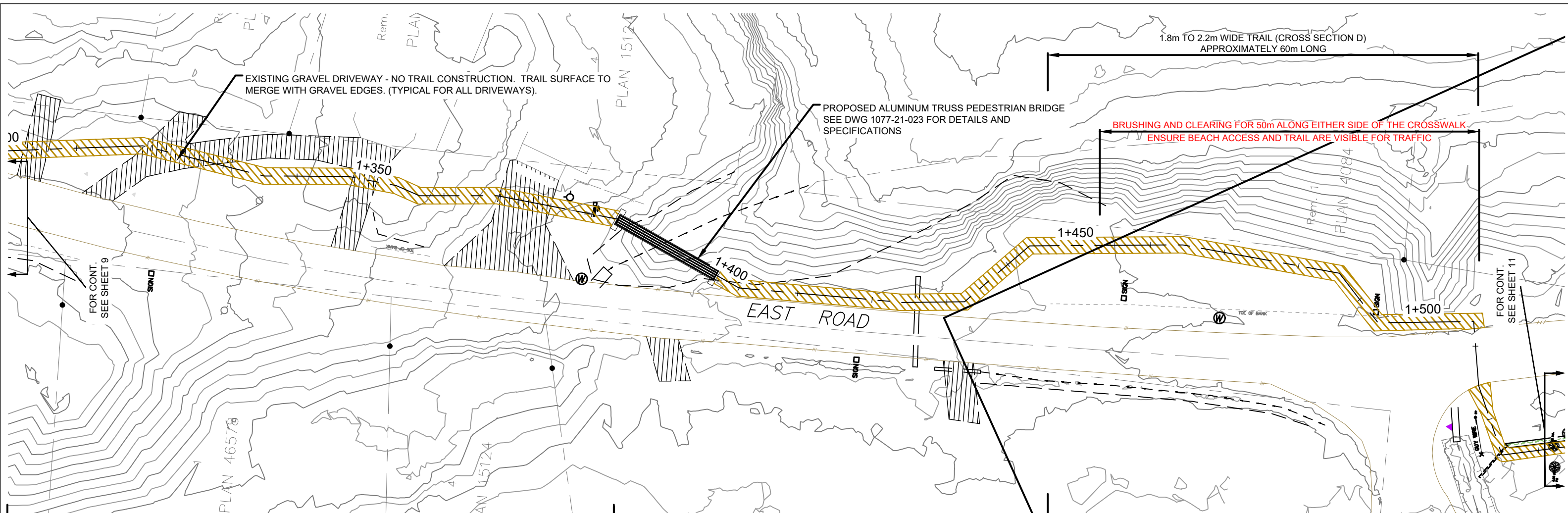
SHEET: 9 OF 25

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REVISION NUMBER: 4
REVISION DATE: OCTOBER 27, 2022
ALL MEASUREMENTS IN m UNLESS OTHERWISE NOTED.

SEAL OF B.C. P.ENG.



EDGE OF DITCH	---	WATER VALVE	
DITCH CENTERLINE	---	FIRE HYDRANT	
EDGE OF GRAVEL	---	WATER SERVICE	
EDGE OF PAVEMENT	---	IRRIGATION CONTROL VALVE	
FENCE	-x-	UTILITY POLE	
SIGN		GUY WIRE ANCHOR	
IRON PIN	•	SURVEY MONUMENT	



- EXISTING GRAVEL DRIVEWAY
- EXISTING ASPHALT DRIVEWAY
- PROPOSED TRAIL

PREPARED FOR: Comox Valley REGIONAL DISTRICT	PREPARED BY: ONSITE ENGINEERING LTD. www.onsite-engineering.ca COURTENAY OFFICE #201- 780 GRANT AVENUE COURTENAY, BC V9N 2T3 PH.: 778-647-5643 FAX: 866-235-6943 EGBC PERMIT TO PRACTICE No.: 1002678
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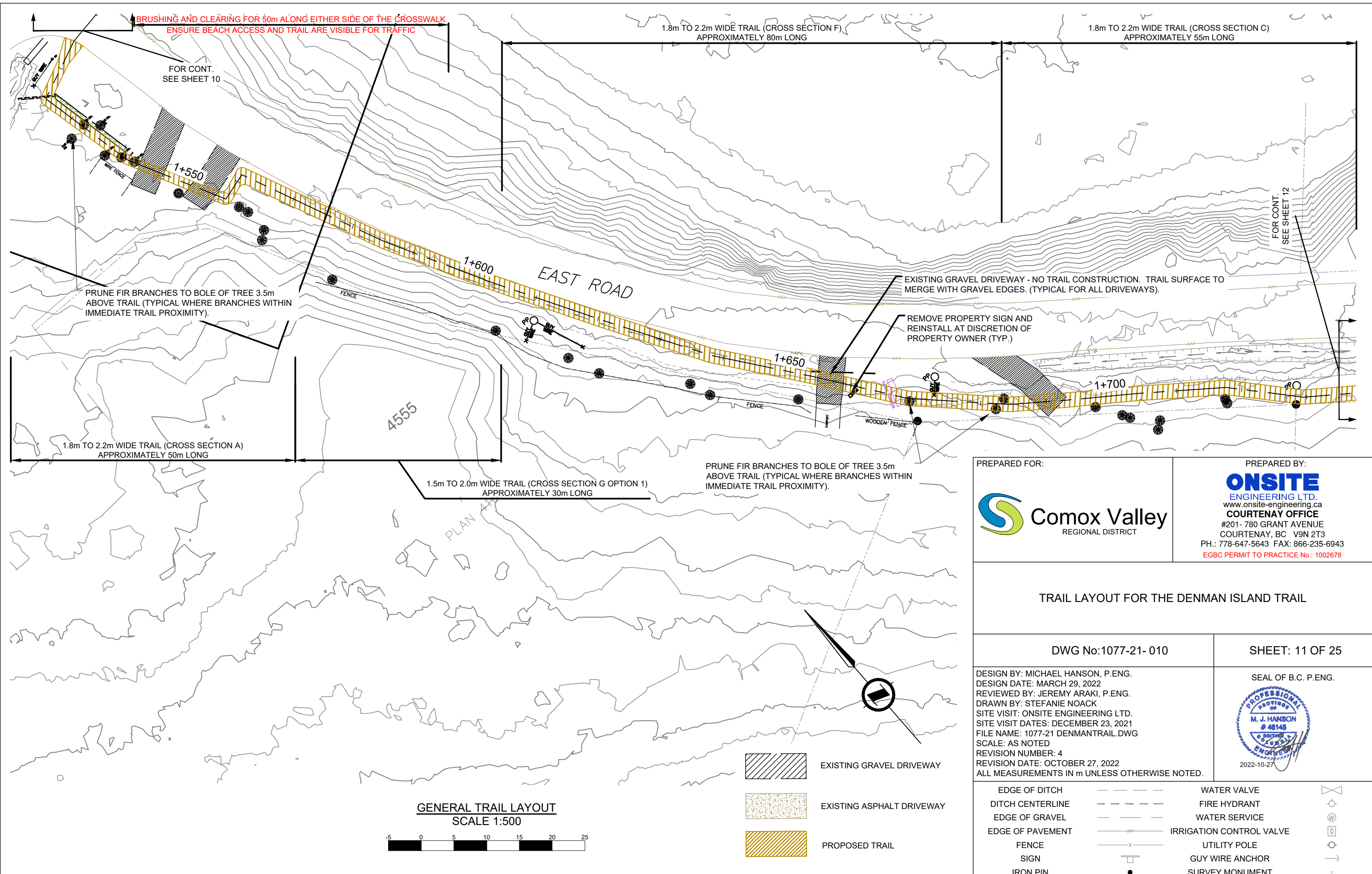
TRAIL LAYOUT FOR THE DENMAN ISLAND TRAIL

DWG No: 1077-21- 009	SHEET: 10 OF 25
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DESIGN BY: MICHAEL HANSON, P.ENG.
 DESIGN DATE: MARCH 29, 2022
 REVIEWED BY: JEREMY ARAKI, P.ENG.
 DRAWN BY: STEFANIE NOACK
 SITE VISIT: ONSITE ENGINEERING LTD.
 SITE VISIT DATES: DECEMBER 23, 2021
 FILE NAME: 1077-21 DENMANTRAIL.DWG
 SCALE: AS NOTED
 REVISION NUMBER: 4
 REVISION DATE: OCTOBER 27, 2022
 ALL MEASUREMENTS IN m UNLESS OTHERWISE NOTED.

SEAL OF B.C. P.ENG.

EDGE OF DITCH	---	WATER VALVE	
DITCH CENTERLINE	---	FIRE HYDRANT	
EDGE OF GRAVEL	---	WATER SERVICE	
EDGE OF PAVEMENT	---	IRRIGATION CONTROL VALVE	
FENCE	-x-	UTILITY POLE	
SIGN		GUY WIRE ANCHOR	
IRON PIN	•	SURVEY MONUMENT	



BRUSHING AND CLEARING FOR 50m ALONG EITHER SIDE OF THE CROSSWALK
ENSURE BEACH ACCESS AND TRAIL ARE VISIBLE FOR TRAFFIC

FOR CONT.
SEE SHEET 10

1.8m TO 2.2m WIDE TRAIL (CROSS SECTION F)
APPROXIMATELY 80m LONG

1.8m TO 2.2m WIDE TRAIL (CROSS SECTION C)
APPROXIMATELY 55m LONG

FOR CONT.
SEE SHEET 12

PRUNE FIR BRANCHES TO BOLE OF TREE 3.5m
ABOVE TRAIL (TYPICAL WHERE BRANCHES WITHIN
IMMEDIATE TRAIL PROXIMITY).

EXISTING GRAVEL DRIVEWAY - NO TRAIL CONSTRUCTION. TRAIL SURFACE TO
MERGE WITH GRAVEL EDGES. (TYPICAL FOR ALL DRIVEWAYS).

REMOVE PROPERTY SIGN AND
REINSTALL AT DISCRETION OF
PROPERTY OWNER (TYP.)

PRUNE FIR BRANCHES TO BOLE OF TREE 3.5m
ABOVE TRAIL (TYPICAL WHERE BRANCHES WITHIN
IMMEDIATE TRAIL PROXIMITY).

1.8m TO 2.2m WIDE TRAIL (CROSS SECTION A)
APPROXIMATELY 50m LONG

1.5m TO 2.0m WIDE TRAIL (CROSS SECTION G OPTION 1)
APPROXIMATELY 30m LONG

PREPARED FOR:



PREPARED BY:

ONSITE
ENGINEERING LTD.
www.onsite-engineering.ca
COURTENAY OFFICE
#201- 780 GRANT AVENUE
COURTENAY, BC V9N 2T3
PH.: 778-647-5643 FAX: 866-235-6943
EGBC PERMIT TO PRACTICE No.: 1002678

TRAIL LAYOUT FOR THE DENMAN ISLAND TRAIL

DWG No: 1077-21- 010

SHEET: 11 OF 25

DESIGN BY: MICHAEL HANSON, P.ENG.
DESIGN DATE: MARCH 29, 2022
REVIEWED BY: JEREMY ARAKI, P.ENG.
DRAWN BY: STEFANIE NOACK
SITE VISIT: ONSITE ENGINEERING LTD.
SITE VISIT DATES: DECEMBER 23, 2021
FILE NAME: 1077-21 DENMANTRAIL.DWG
SCALE: AS NOTED
REVISION NUMBER: 4
REVISION DATE: OCTOBER 27, 2022
ALL MEASUREMENTS IN m UNLESS OTHERWISE NOTED.

SEAL OF B.C. P.ENG.



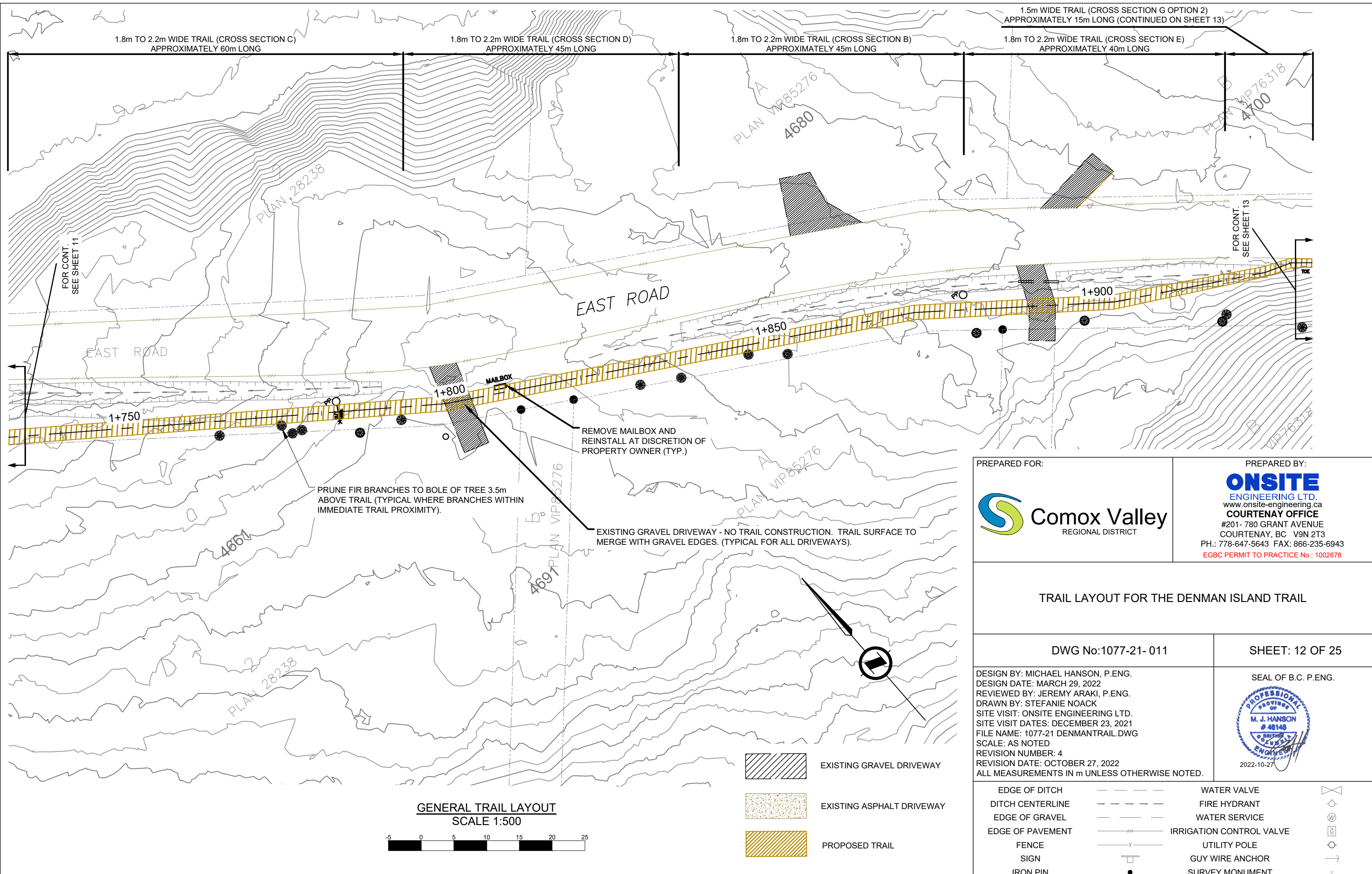
2022-10-27



- EXISTING GRAVEL DRIVEWAY
- EXISTING ASPHALT DRIVEWAY
- PROPOSED TRAIL

- | | | | |
|------------------|-----|--------------------------|--|
| EDGE OF DITCH | --- | WATER VALVE | |
| DITCH CENTERLINE | --- | FIRE HYDRANT | |
| EDGE OF GRAVEL | --- | WATER SERVICE | |
| EDGE OF PAVEMENT | --- | IRRIGATION CONTROL VALVE | |
| FENCE | -x- | UTILITY POLE | |
| SIGN | | GUY WIRE ANCHOR | |
| IRON PIN | • | SURVEY MONUMENT | |

GENERAL TRAIL LAYOUT
SCALE 1:500






PREPARED FOR: 	PREPARED BY:  ONSITE ENGINEERING LTD. www.onsite-engineering.ca COURTENAY OFFICE #201- 780 GRANT AVENUE COURTENAY, BC V9N 2T3 PH.: 778-647-5643 FAX: 866-235-6943 EGBC PERMIT TO PRACTICE No.: 1002678
--	---

TRAIL LAYOUT FOR THE DENMAN ISLAND TRAIL

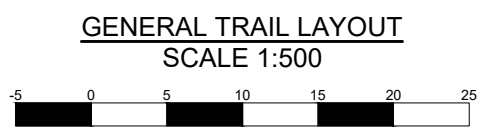
DWG No:1077-21- 011	SHEET: 12 OF 25
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DESIGN BY: MICHAEL HANSON, P.ENG.
 DESIGN DATE: MARCH 29, 2022
 REVIEWED BY: JEREMY ARAKI, P.ENG.
 DRAWN BY: STEFANIE NOACK
 SITE VISIT: ONSITE ENGINEERING LTD.
 SITE VISIT DATES: DECEMBER 23, 2021
 FILE NAME: 1077-21 DENMANTRAIL.DWG
 SCALE: AS NOTED
 REVISION NUMBER: 4
 REVISION DATE: OCTOBER 27, 2022
 ALL MEASUREMENTS IN m UNLESS OTHERWISE NOTED.

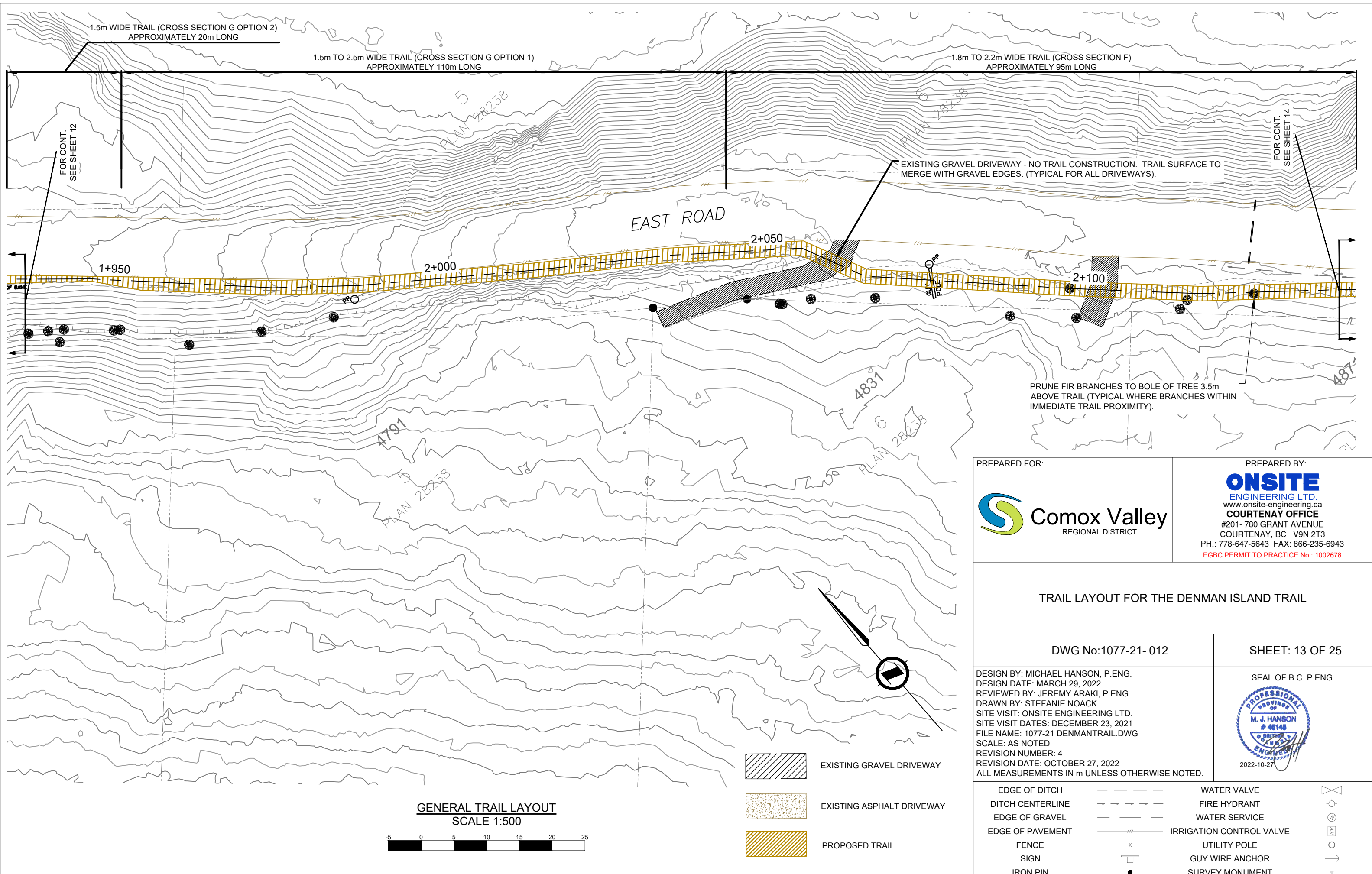
SEAL OF B.C. P.ENG.




EDGE OF DITCH	---	WATER VALVE	⊗
DITCH CENTERLINE	---	FIRE HYDRANT	⊙
EDGE OF GRAVEL	---	WATER SERVICE	⊖
EDGE OF PAVEMENT	---	IRRIGATION CONTROL VALVE	⊞
FENCE	-x-	UTILITY POLE	⊙
SIGN	⊥	GUY WIRE ANCHOR	→
IRON PIN	●	SURVEY MONUMENT	▽












-  EXISTING GRAVEL DRIVEWAY
-  EXISTING ASPHALT DRIVEWAY
-  PROPOSED TRAIL



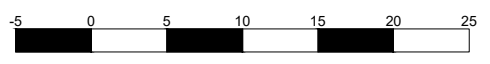
PREPARED FOR: 	PREPARED BY: ONSITE ENGINEERING LTD. www.onsite-engineering.ca COURTENAY OFFICE #201- 780 GRANT AVENUE COURTENAY, BC V9N 2T3 PH.: 778-647-5643 FAX: 866-235-6943 EGBC PERMIT TO PRACTICE No.: 1002678
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TRAIL LAYOUT FOR THE DENMAN ISLAND TRAIL

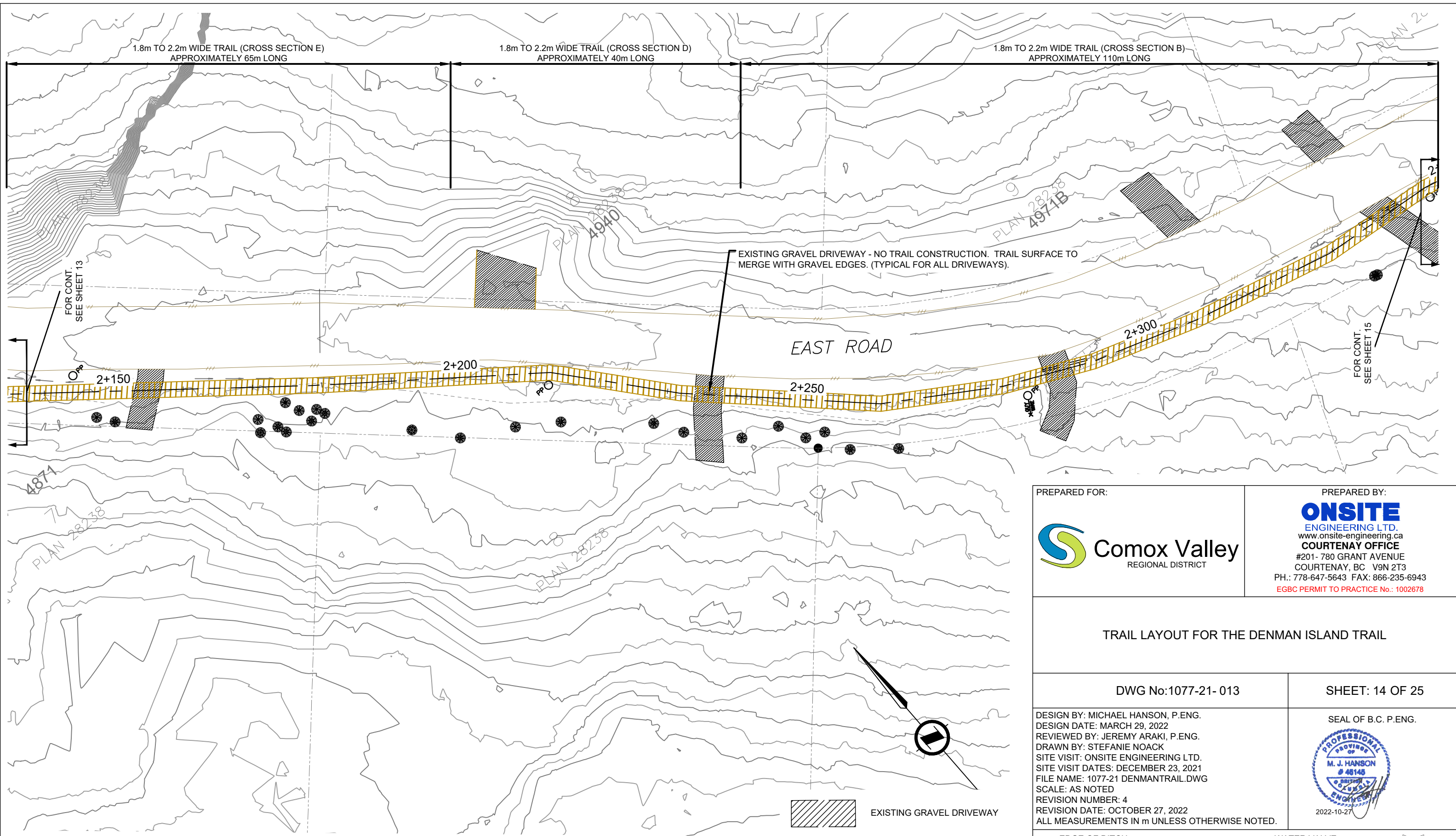
DWG No: 1077-21-012	SHEET: 13 OF 25
DESIGN BY: MICHAEL HANSON, P.ENG. DESIGN DATE: MARCH 29, 2022 REVIEWED BY: JEREMY ARAKI, P.ENG. DRAWN BY: STEFANIE NOACK SITE VISIT: ONSITE ENGINEERING LTD. SITE VISIT DATES: DECEMBER 23, 2021 FILE NAME: 1077-21 DENMANTRAIL.DWG SCALE: AS NOTED REVISION NUMBER: 4 REVISION DATE: OCTOBER 27, 2022 ALL MEASUREMENTS IN m UNLESS OTHERWISE NOTED.	SEAL OF B.C. P.ENG.  2022-10-27

EDGE OF DITCH	---	WATER VALVE	
DITCH CENTERLINE	---	FIRE HYDRANT	
EDGE OF GRAVEL	---	WATER SERVICE	
EDGE OF PAVEMENT	---	IRRIGATION CONTROL VALVE	
FENCE	-x-	UTILITY POLE	
SIGN		GUY WIRE ANCHOR	
IRON PIN	•	SURVEY MONUMENT	

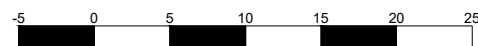
GENERAL TRAIL LAYOUT
SCALE 1:500






-  EXISTING GRAVEL DRIVEWAY
-  EXISTING ASPHALT DRIVEWAY
-  PROPOSED TRAIL



GENERAL TRAIL LAYOUT
SCALE 1:500



-  EXISTING GRAVEL DRIVEWAY
-  EXISTING ASPHALT DRIVEWAY
-  PROPOSED TRAIL

PREPARED FOR:



PREPARED BY:

ONSITE
ENGINEERING LTD.

www.onsite-engineering.ca

COURTENAY OFFICE

#201- 780 GRANT AVENUE

COURTENAY, BC V9N 2T3

PH.: 778-647-5643 FAX: 866-235-6943

EGBC PERMIT TO PRACTICE No.: 1002678

TRAIL LAYOUT FOR THE DENMAN ISLAND TRAIL









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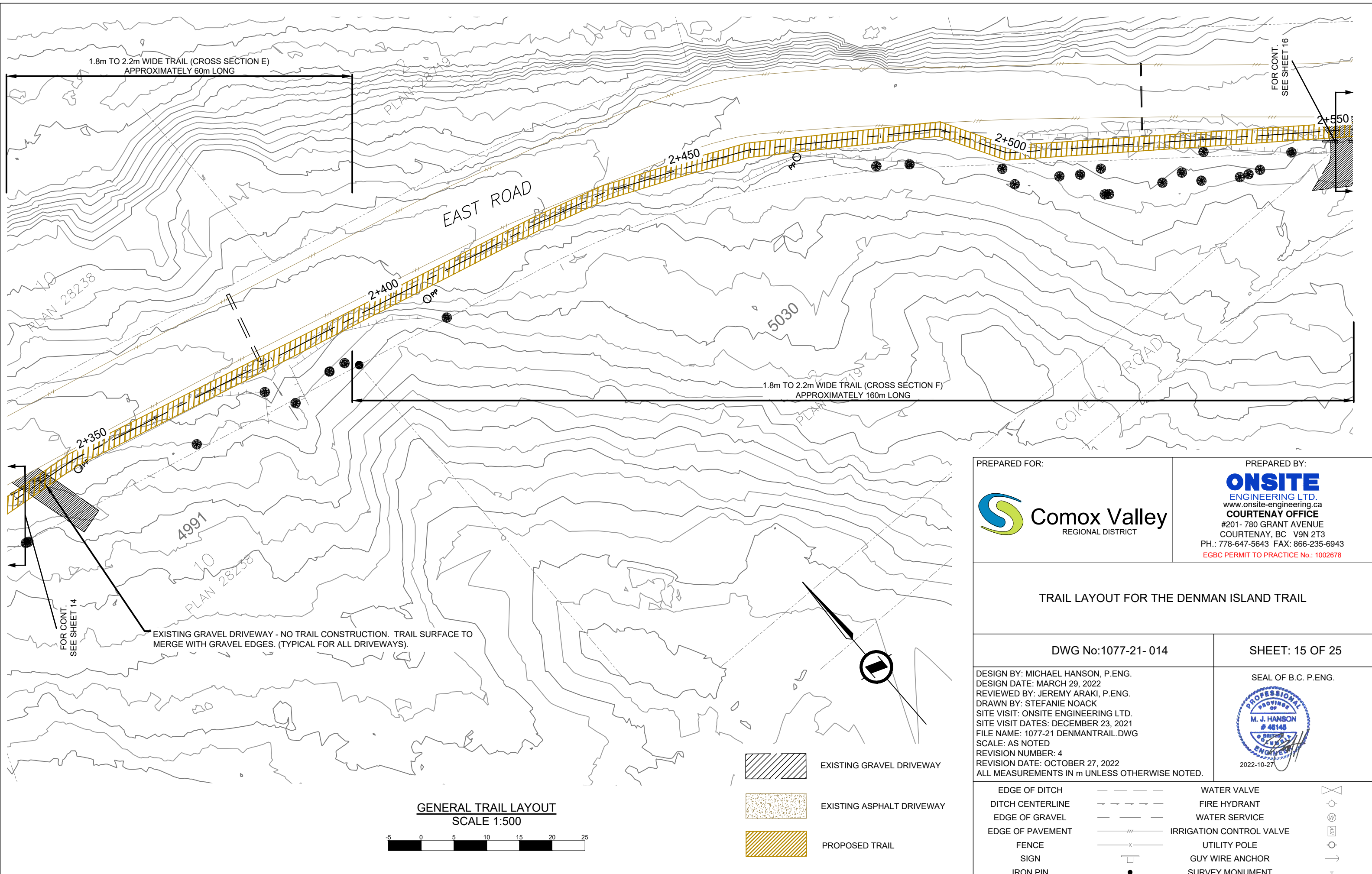
SHEET: 14 OF 25

DESIGN BY: MICHAEL HANSON, P.ENG.
 DESIGN DATE: MARCH 29, 2022
 REVIEWED BY: JEREMY ARAKI, P.ENG.
 DRAWN BY: STEFANIE NOACK
 SITE VISIT: ONSITE ENGINEERING LTD.
 SITE VISIT DATES: DECEMBER 23, 2021
 FILE NAME: 1077-21 DENMANTRAIL.DWG
 SCALE: AS NOTED
 REVISION NUMBER: 4
 REVISION DATE: OCTOBER 27, 2022
 ALL MEASUREMENTS IN m UNLESS OTHERWISE NOTED.

SEAL OF B.C. P.ENG.



EDGE OF DITCH	---	WATER VALVE	
DITCH CENTERLINE	---	FIRE HYDRANT	
EDGE OF GRAVEL	---	WATER SERVICE	
EDGE OF PAVEMENT	---	IRRIGATION CONTROL VALVE	
FENCE	-x-	UTILITY POLE	
SIGN		GUY WIRE ANCHOR	
IRON PIN	•	SURVEY MONUMENT	



PREPARED FOR: 	PREPARED BY: ONSITE ENGINEERING LTD. www.onsite-engineering.ca COURTENAY OFFICE #201- 780 GRANT AVENUE COURTENAY, BC V9N 2T3 PH.: 778-647-5643 FAX: 866-235-6943 EGBC PERMIT TO PRACTICE No.: 1002678
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TRAIL LAYOUT FOR THE DENMAN ISLAND TRAIL

DWG No:1077-21- 014	SHEET: 15 OF 25
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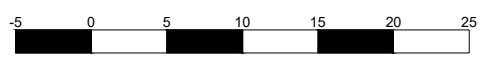
DESIGN BY: MICHAEL HANSON, P.ENG.
 DESIGN DATE: MARCH 29, 2022
 REVIEWED BY: JEREMY ARAKI, P.ENG.
 DRAWN BY: STEFANIE NOACK
 SITE VISIT: ONSITE ENGINEERING LTD.
 SITE VISIT DATES: DECEMBER 23, 2021
 FILE NAME: 1077-21 DENMANTRAIL.DWG
 SCALE: AS NOTED
 REVISION NUMBER: 4
 REVISION DATE: OCTOBER 27, 2022
 ALL MEASUREMENTS IN m UNLESS OTHERWISE NOTED.

SEAL OF B.C. P.ENG.

- EXISTING GRAVEL DRIVEWAY
- EXISTING ASPHALT DRIVEWAY
- PROPOSED TRAIL

EDGE OF DITCH	---	WATER VALVE	
DITCH CENTERLINE	---	FIRE HYDRANT	
EDGE OF GRAVEL	---	WATER SERVICE	
EDGE OF PAVEMENT	---	IRRIGATION CONTROL VALVE	
FENCE	-x-	UTILITY POLE	
SIGN		GUY WIRE ANCHOR	
IRON PIN	•	SURVEY MONUMENT	

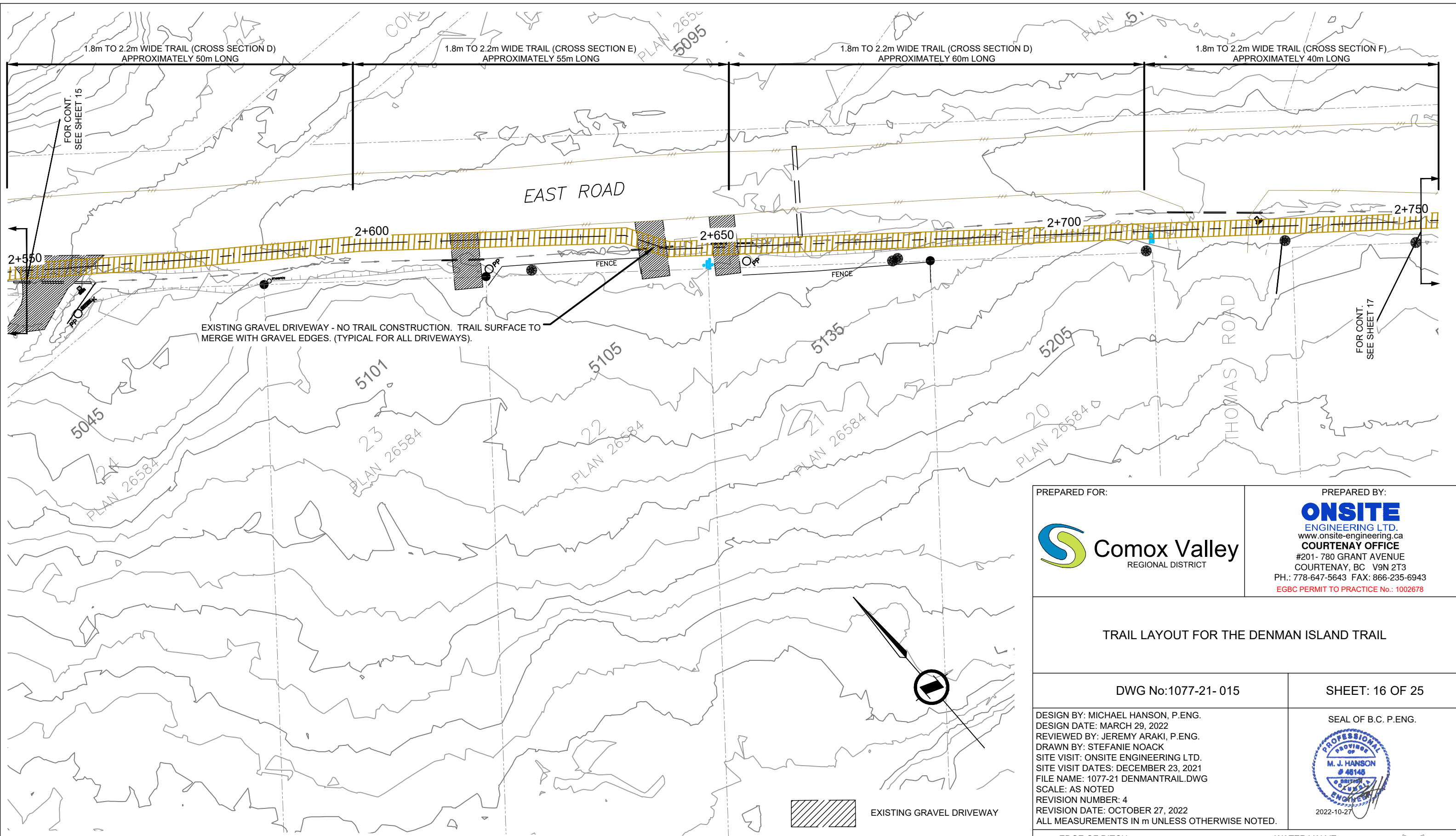
GENERAL TRAIL LAYOUT
SCALE 1:500



EXISTING GRAVEL DRIVEWAY - NO TRAIL CONSTRUCTION. TRAIL SURFACE TO MERGE WITH GRAVEL EDGES. (TYPICAL FOR ALL DRIVEWAYS).

FOR CONT. SEE SHEET 14

FOR CONT. SEE SHEET 16



1.8m TO 2.2m WIDE TRAIL (CROSS SECTION D) APPROXIMATELY 50m LONG

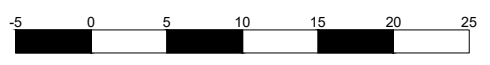
1.8m TO 2.2m WIDE TRAIL (CROSS SECTION E) APPROXIMATELY 55m LONG




1.8m TO 2.2m WIDE TRAIL (CROSS SECTION D) APPROXIMATELY 60m LONG


1.8m TO 2.2m WIDE TRAIL (CROSS SECTION F) APPROXIMATELY 40m LONG

EXISTING GRAVEL DRIVEWAY - NO TRAIL CONSTRUCTION. TRAIL SURFACE TO MERGE WITH GRAVEL EDGES. (TYPICAL FOR ALL DRIVEWAYS).

GENERAL TRAIL LAYOUT
SCALE 1:500



-  EXISTING GRAVEL DRIVEWAY
-  EXISTING ASPHALT DRIVEWAY
-  PROPOSED TRAIL


<p>PREPARED FOR:</p> 	<p>PREPARED BY:</p> <p>ONSITE ENGINEERING LTD. www.onsite-engineering.ca COURTENAY OFFICE #201- 780 GRANT AVENUE COURTENAY, BC V9N 2T3 PH.: 778-647-5643 FAX: 866-235-6943 EGBC PERMIT TO PRACTICE No.: 1002678</p>
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TRAIL LAYOUT FOR THE DENMAN ISLAND TRAIL

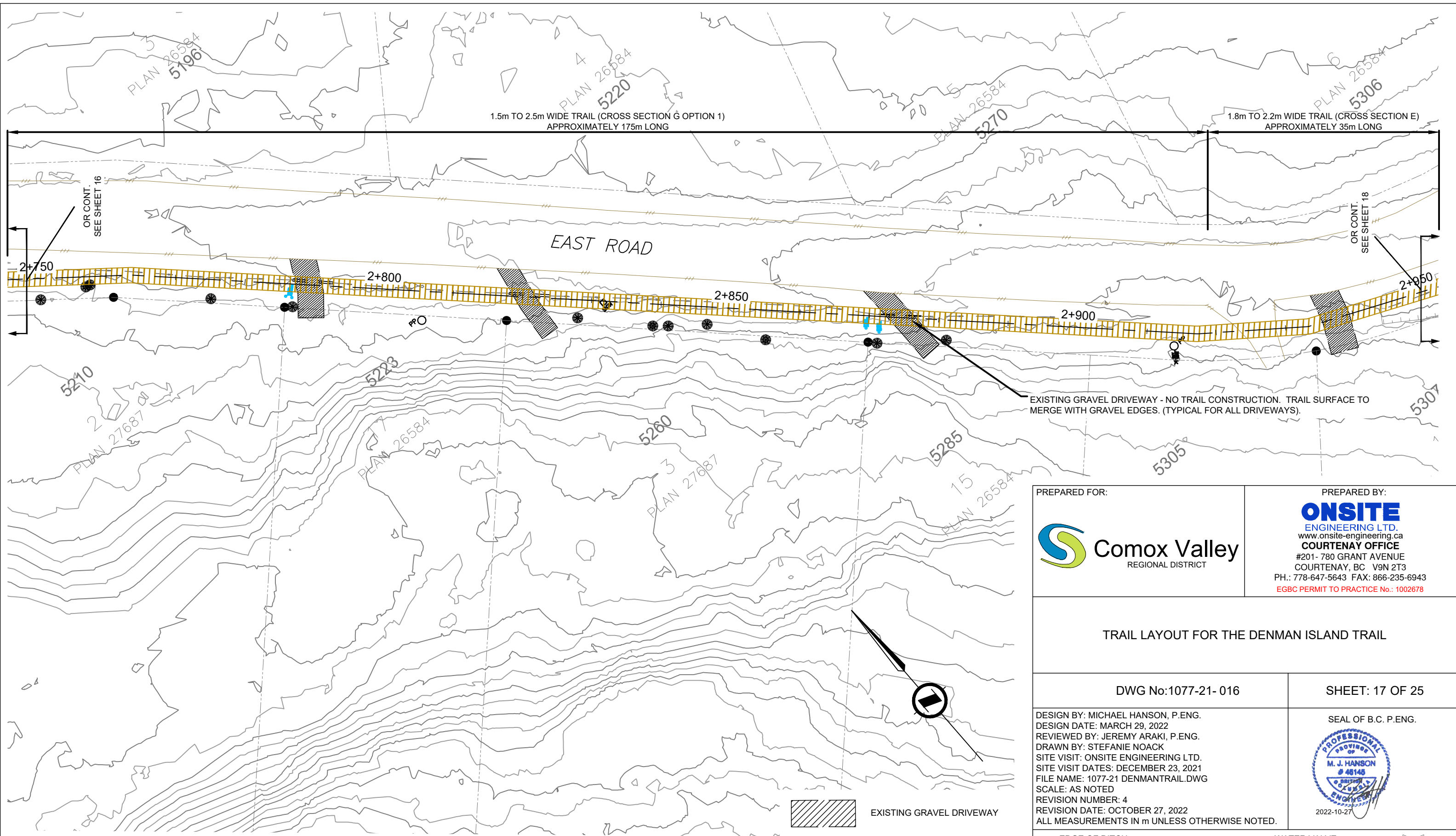
DWG No: 1077-21- 015	SHEET: 16 OF 25
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DESIGN BY: MICHAEL HANSON, P.ENG.
 DESIGN DATE: MARCH 29, 2022
 REVIEWED BY: JEREMY ARAKI, P.ENG.
 DRAWN BY: STEFANIE NOACK
 SITE VISIT: ONSITE ENGINEERING LTD.
 SITE VISIT DATES: DECEMBER 23, 2021
 FILE NAME: 1077-21 DENMANTRAIL.DWG
 SCALE: AS NOTED
 REVISION NUMBER: 4
 REVISION DATE: OCTOBER 27, 2022
 ALL MEASUREMENTS IN m UNLESS OTHERWISE NOTED.

SEAL OF B.C. P.ENG.
















EDGE OF DITCH	---	WATER VALVE	⊗
DITCH CENTERLINE	---	FIRE HYDRANT	⊙
EDGE OF GRAVEL	---	WATER SERVICE	⊖
EDGE OF PAVEMENT	---	IRRIGATION CONTROL VALVE	⊞
FENCE	---	UTILITY POLE	⊙
SIGN	⊞	GUY WIRE ANCHOR	→
IRON PIN	●	SURVEY MONUMENT	▽

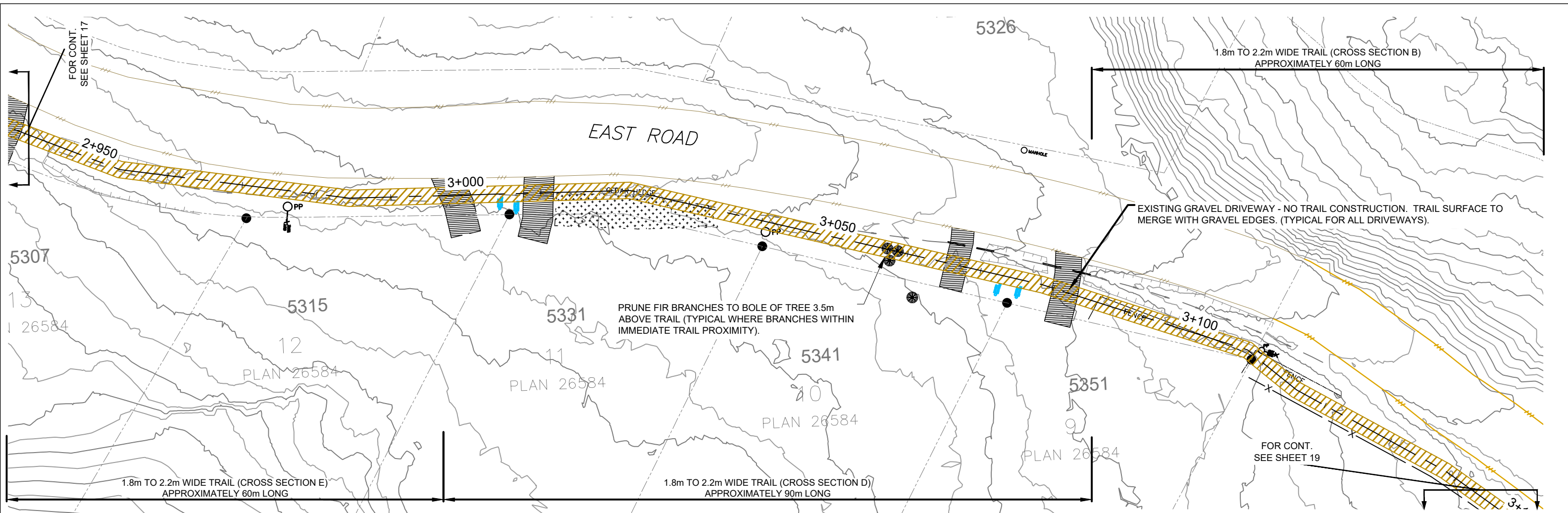


GENERAL TRAIL LAYOUT
SCALE 1:500

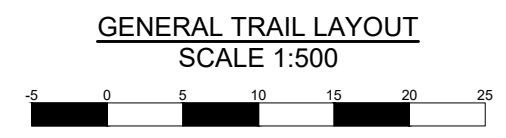


-  EXISTING GRAVEL DRIVEWAY
-  EXISTING ASPHALT DRIVEWAY
-  PROPOSED TRAIL

<p>PREPARED FOR:</p> 	<p>PREPARED BY:</p> <p>ONSITE ENGINEERING LTD. www.onsite-engineering.ca COURTENAY OFFICE #201- 780 GRANT AVENUE COURTENAY, BC V9N 2T3 PH.: 778-647-5643 FAX: 866-235-6943 EGBC PERMIT TO PRACTICE No.: 1002678</p>
<p>TRAIL LAYOUT FOR THE DENMAN ISLAND TRAIL</p>	
<p>DWG No: 1077-21- 016</p>	<p>SHEET: 17 OF 25</p>
<p>DESIGN BY: MICHAEL HANSON, P.ENG. DESIGN DATE: MARCH 29, 2022 REVIEWED BY: JEREMY ARAKI, P.ENG. DRAWN BY: STEFANIE NOACK SITE VISIT: ONSITE ENGINEERING LTD. SITE VISIT DATES: DECEMBER 23, 2021 FILE NAME: 1077-21 DENMANTRAIL.DWG SCALE: AS NOTED REVISION NUMBER: 4 REVISION DATE: OCTOBER 27, 2022 ALL MEASUREMENTS IN m UNLESS OTHERWISE NOTED.</p>	
<p>SEAL OF B.C. P.ENG.</p> 	
<p>EDGE OF DITCH - - - - -</p> <p>DITCH CENTERLINE - - - - -</p> <p>EDGE OF GRAVEL - - - - -</p> <p>EDGE OF PAVEMENT - - - - -</p> <p>FENCE - x - - -</p> <p>SIGN </p> <p>IRON PIN ●</p>	<p>WATER VALVE </p> <p>FIRE HYDRANT </p> <p>WATER SERVICE </p> <p>IRRIGATION CONTROL VALVE </p> <p>UTILITY POLE </p> <p>GUY WIRE ANCHOR </p> <p>SURVEY MONUMENT </p>



NOTES:
 1. ROAD EDGE AND DITCH CENTER ARE APPROXIMATE. REVIEW TRAIL LOCATION ON SITE.



- EXISTING GRAVEL DRIVEWAY
- EXISTING ASPHALT DRIVEWAY
- PROPOSED TRAIL

PREPARED FOR: Comox Valley REGIONAL DISTRICT	PREPARED BY: ONSITE ENGINEERING LTD. www.onsite-engineering.ca COURTENAY OFFICE #201- 780 GRANT AVENUE COURTENAY, BC V9N 2T3 PH.: 778-647-5643 FAX: 866-235-6943 EGBC PERMIT TO PRACTICE No.: 1002678
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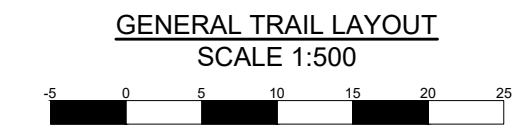
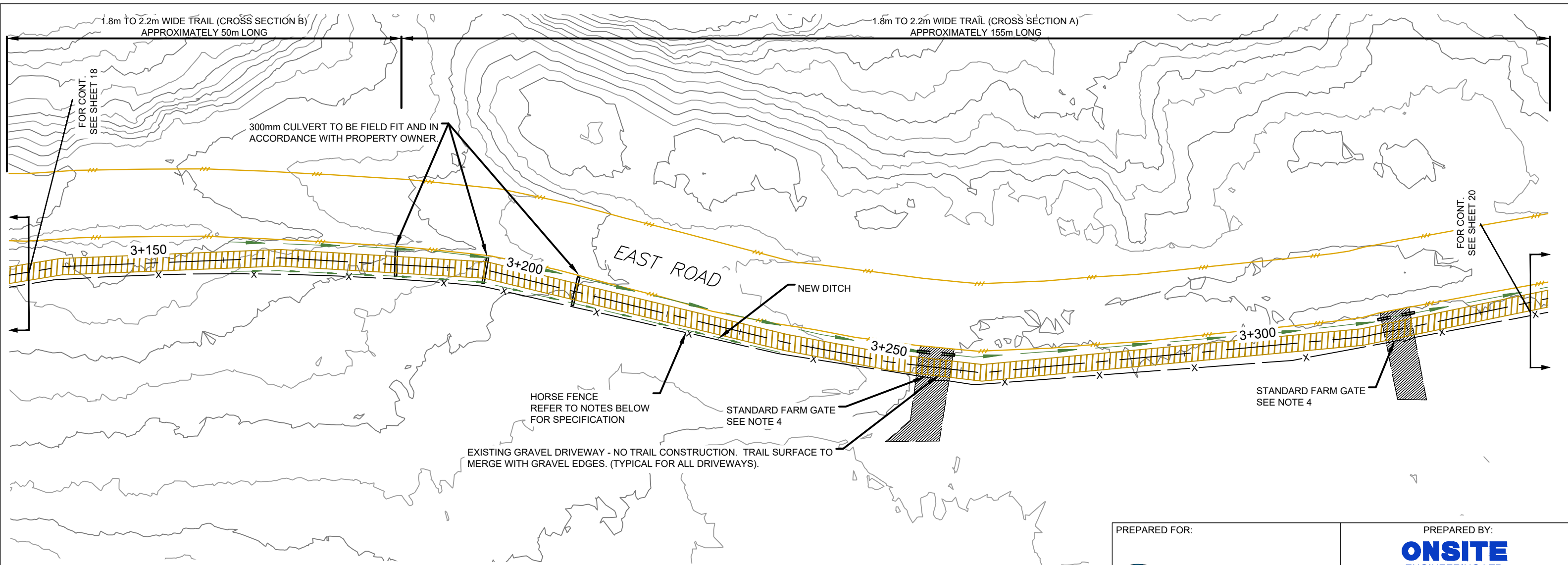
TRAIL LAYOUT FOR THE DENMAN ISLAND TRAIL

DWG No: 1077-21- 017	SHEET: 18 OF 25
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DESIGN BY: MICHAEL HANSON, P.ENG.
 DESIGN DATE: MARCH 29, 2022
 REVIEWED BY: JEREMY ARAKI, P.ENG.
 DRAWN BY: STEFANIE NOACK
 SITE VISIT: ONSITE ENGINEERING LTD.
 SITE VISIT DATES: DECEMBER 23, 2021
 FILE NAME: 1077-21 DENMANTRAIL.DWG
 SCALE: AS NOTED
 REVISION NUMBER: 4
 REVISION DATE: OCTOBER 27, 2022
 ALL MEASUREMENTS IN m UNLESS OTHERWISE NOTED.

SEAL OF B.C. P.ENG.

EDGE OF DITCH	---	WATER VALVE	
DITCH CENTERLINE	---	FIRE HYDRANT	
EDGE OF GRAVEL	---	WATER SERVICE	
EDGE OF PAVEMENT	---	IRRIGATION CONTROL VALVE	
FENCE	-x-	UTILITY POLE	
SIGN		GUY WIRE ANCHOR	
IRON PIN	•	SURVEY MONUMENT	



NOTES:

1. HORSE FENCE TO BE SIX FEET HIGH AND INCLUDE 5 - 12' LONG, 3"-4" Ø TREATED GRADE-A RAILS PER SECTION.
2. FENCING POSTS TO BE 8' LONG, 6"Ø, TREATED AND VIBRATED IN AT TEN FOOT CENTERS.
3. POSTS AND RAILS TO BE FASTENED WITH 7" HD GRK SCREWS.
4. FENCE TO INCLUDE 3 ENTRANCE FARM GATES, CONFORMING TO STANDARD HEIGHTS WITH DOUBLE WING TYPE INCLUDING LATCHES.
5. ROAD EDGE AND DITCH CENTER ARE APPROXIMATE. REVIEW TRAIL LOCATION ON SITE.

	EXISTING GRAVEL DRIVEWAY
	EXISTING ASPHALT DRIVEWAY
	PROPOSED TRAIL

PREPARED FOR: 	PREPARED BY: ONSITE ENGINEERING LTD. www.onsite-engineering.ca COURTENAY OFFICE #201- 780 GRANT AVENUE COURTENAY, BC V9N 2T3 PH.: 778-647-5643 FAX: 866-235-6943 EGBC PERMIT TO PRACTICE No.: 1002678
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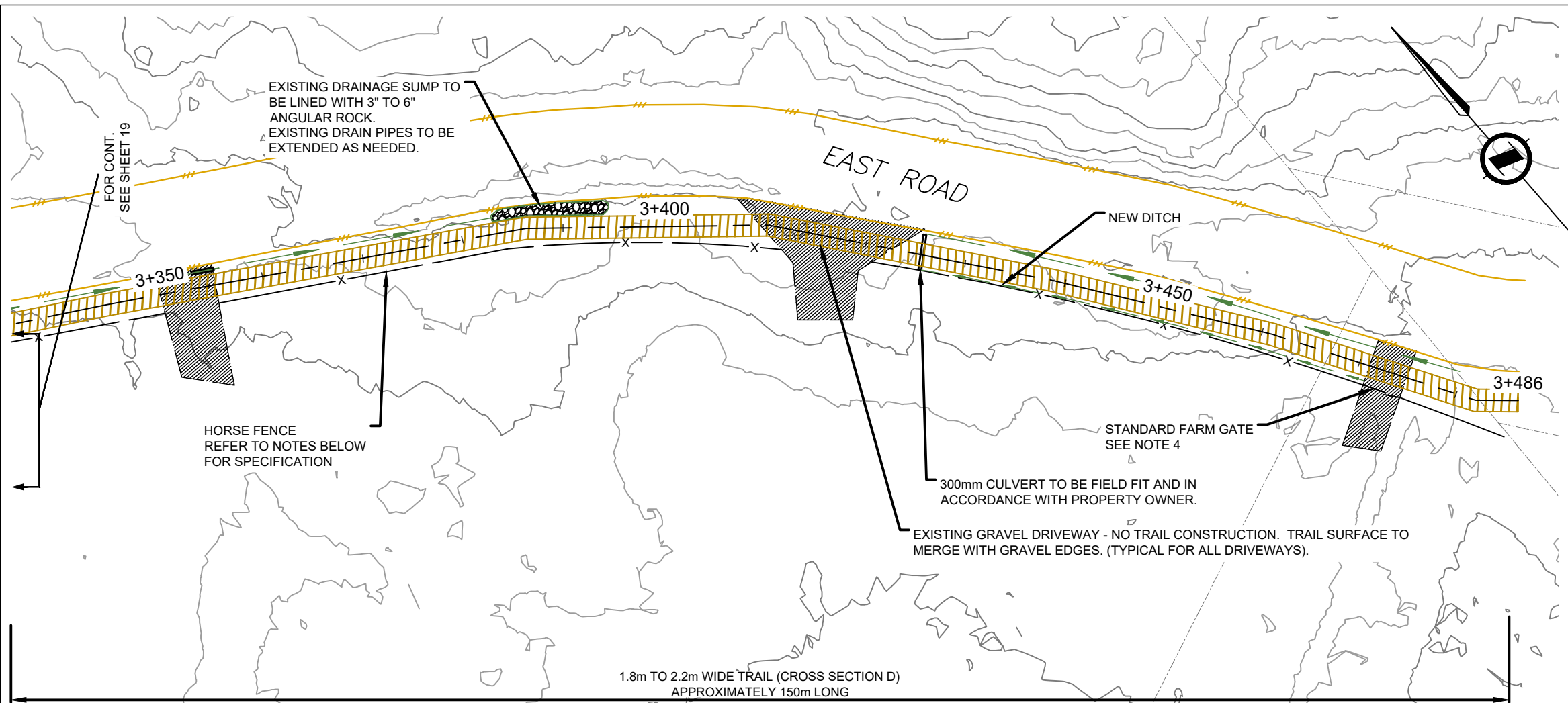
TRAIL LAYOUT FOR THE DENMAN ISLAND TRAIL

DWG No:1077-21- 018	SHEET: 19 OF 25
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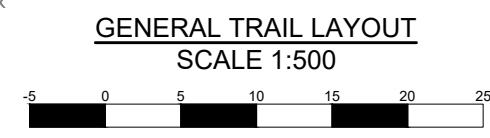
DESIGN BY: MICHAEL HANSON, P.ENG.
 DESIGN DATE: MARCH 29, 2022
 REVIEWED BY: JEREMY ARAKI, P.ENG.
 DRAWN BY: STEFANIE NOACK
 SITE VISIT: ONSITE ENGINEERING LTD.
 SITE VISIT DATES: DECEMBER 23, 2021
 FILE NAME: 1077-21 DENMANTRAIL.DWG
 SCALE: AS NOTED
 REVISION NUMBER: 4
 REVISION DATE: OCTOBER 27, 2022
 ALL MEASUREMENTS IN m UNLESS OTHERWISE NOTED.

SEAL OF B.C. P.ENG.

EDGE OF DITCH	---	WATER VALVE	
DITCH CENTERLINE	---	FIRE HYDRANT	
EDGE OF GRAVEL	---	WATER SERVICE	
EDGE OF PAVEMENT	---	IRRIGATION CONTROL VALVE	
FENCE	-x-	UTILITY POLE	
SIGN		GUY WIRE ANCHOR	
IRON PIN	•	SURVEY MONUMENT	



- NOTES:
1. HORSE FENCE TO BE SIX FEET HIGH AND INCLUDE 5 - 12' LONG, 3"-4" Ø TREATED GRADE-A RAILS PER SECTION.
 2. FENCING POSTS TO BE 8' LONG, 6"Ø, TREATED AND VIBRATED IN AT TEN FOOT CENTERS.
 3. POSTS AND RAILS TO BE FASTENED WITH 7" HD GRK SCREWS.
 4. FENCE TO INCLUDE 3 ENTRANCE FARM GATES, CONFORMING TO STANDARD HEIGHTS WITH DOUBLE WING TYPE INCLUDING LATCHES.
 5. ROAD EDGE AND DITCH CENTER ARE APPROXIMATE. REVIEW TRAIL LOCATION ON SITE.



EXISTING DRAINAGE SUMP @ STA. 3+390

- EXISTING GRAVEL DRIVEWAY
- EXISTING ASPHALT DRIVEWAY
- PROPOSED TRAIL

PREPARED FOR: 	PREPARED BY: ONSITE ENGINEERING LTD. www.onsite-engineering.ca COURTENAY OFFICE #201- 780 GRANT AVENUE COURTENAY, BC V9N 2T3 PH.: 778-647-5643 FAX: 866-235-6943 EGBC PERMIT TO PRACTICE No.: 1002678
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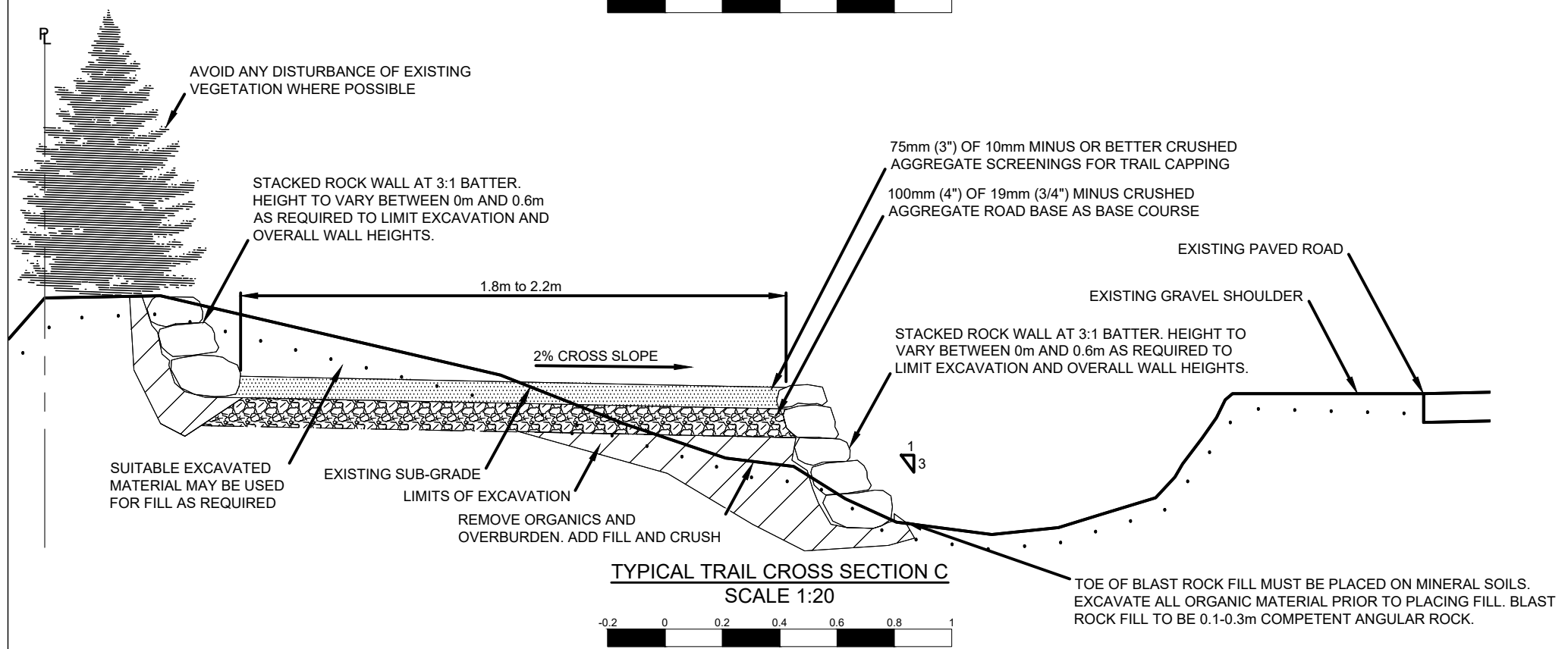
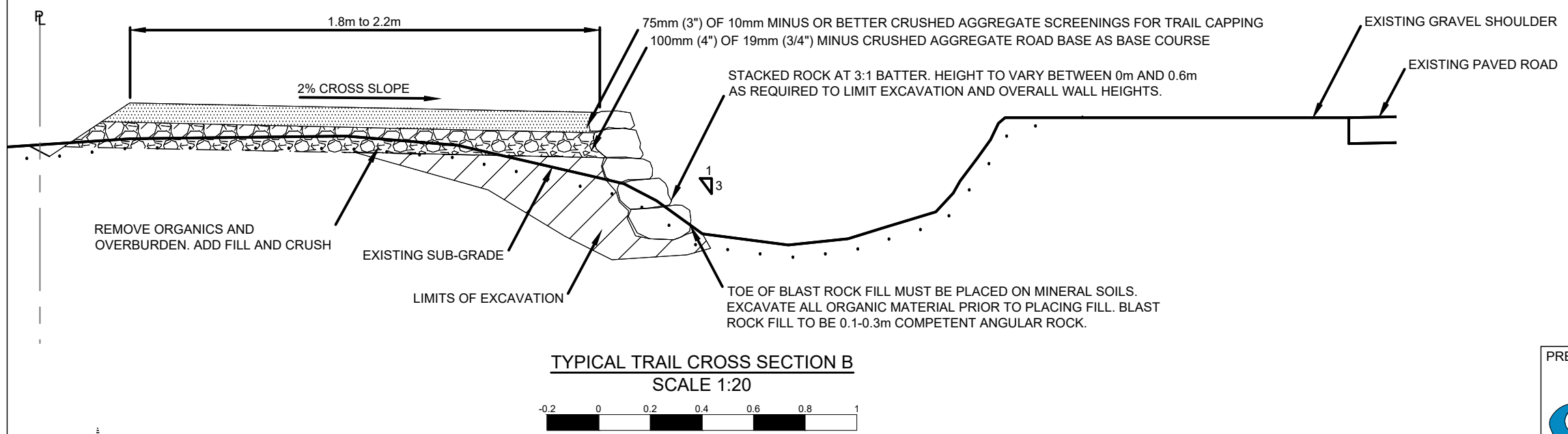
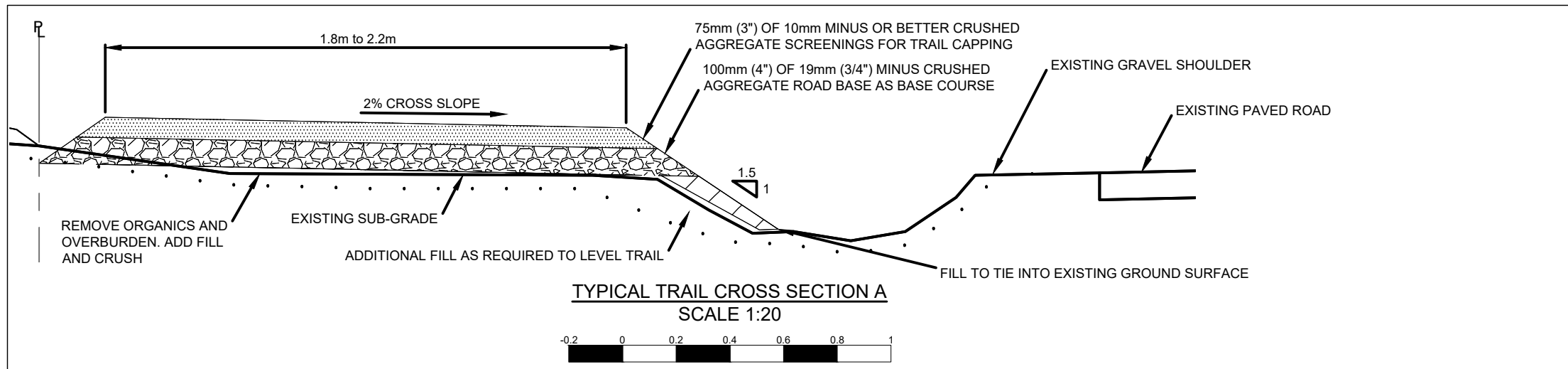
TRAIL LAYOUT FOR THE DENMAN ISLAND TRAIL

DWG No: 1077-21- 019 SHEET: 20 OF 25

DESIGN BY: MICHAEL HANSON, P.ENG.
DESIGN DATE: MARCH 29, 2022
REVIEWED BY: JEREMY ARAKI, P.ENG.
DRAWN BY: STEFANIE NOACK
SITE VISIT: ONSITE ENGINEERING LTD.
SITE VISIT DATES: DECEMBER 23, 2021
FILE NAME: 1077-21 DENMANTRAIL.DWG
SCALE: AS NOTED
REVISION NUMBER: 4
REVISION DATE: OCTOBER 27, 2022
ALL MEASUREMENTS IN m UNLESS OTHERWISE NOTED.

SEAL OF B.C. P.ENG.

EDGE OF DITCH	---	WATER VALVE	
DITCH CENTERLINE	---	FIRE HYDRANT	
EDGE OF GRAVEL	---	WATER SERVICE	
EDGE OF PAVEMENT	---	IRRIGATION CONTROL VALVE	
FENCE	—x—	UTILITY POLE	
SIGN		GUY WIRE ANCHOR	
IRON PIN	●	SURVEY MONUMENT	



PREPARED FOR:	PREPARED BY:
	 ONSITE ENGINEERING LTD. www.onsite-engineering.ca COURTENAY OFFICE #201- 780 GRANT AVENUE COURTENAY, BC V9N 2T3 PH.: 778-647-5643 FAX: 866-235-6943 EGBC PERMIT TO PRACTICE No.: 1002678

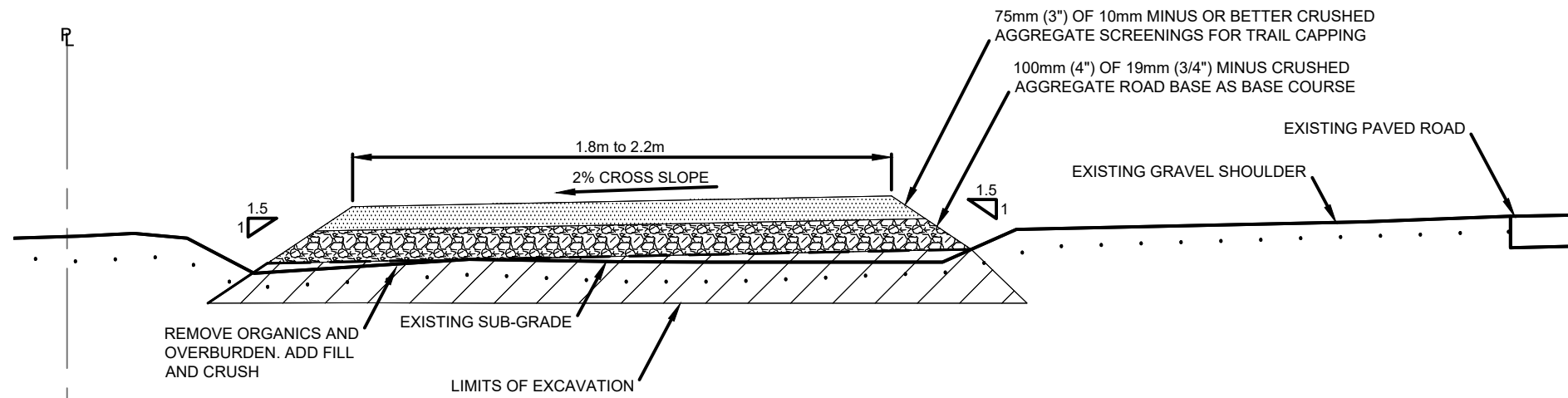
TRAIL LAYOUT FOR THE DENMAN ISLAND TRAIL

DWG No: 1077-21- 020	SHEET: 21 OF 25
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DESIGN BY: MICHAEL HANSON, P.ENG.
 DESIGN DATE: MARCH 29, 2022
 REVIEWED BY: JEREMY ARAKI, P.ENG.
 DRAWN BY: STEFANIE NOACK
 SITE VISIT: ONSITE ENGINEERING LTD.
 SITE VISIT DATES: DECEMBER 23, 2021
 FILE NAME: 1077-21 DENMANTRAIL.DWG
 SCALE: AS NOTED
 REVISION NUMBER: 4
 REVISION DATE: OCTOBER 27, 2022
 ALL MEASUREMENTS IN m UNLESS OTHERWISE NOTED.

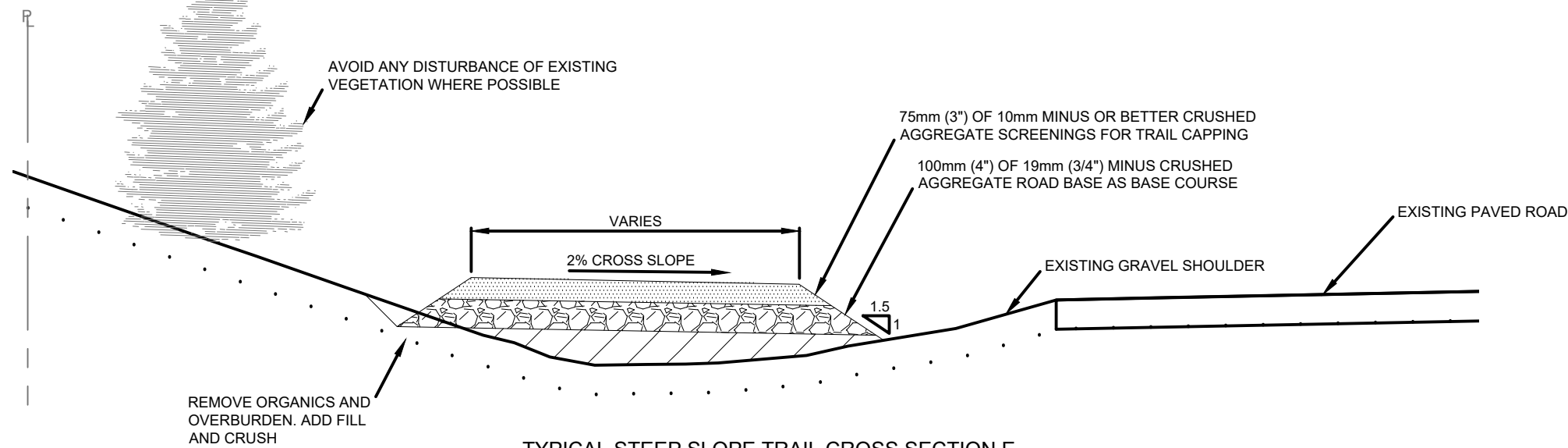
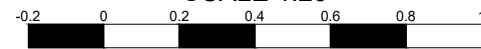
SEAL OF B.C. P.ENG.

EDGE OF DITCH	---	WATER VALVE	
DITCH CENTERLINE	---	FIRE HYDRANT	
EDGE OF GRAVEL	---	WATER SERVICE	
EDGE OF PAVEMENT	---	IRRIGATION CONTROL VALVE	
FENCE	-x-	UTILITY POLE	
SIGN		GUY WIRE ANCHOR	
IRON PIN	•	SURVEY MONUMENT	



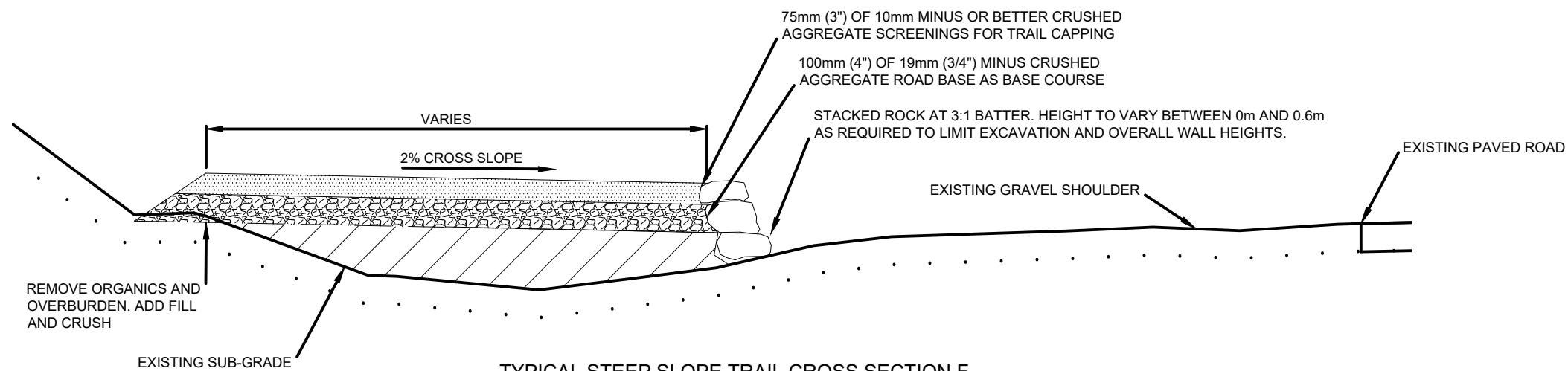
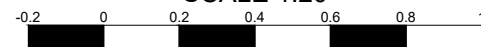
TYPICAL TRAIL CROSS SECTION D

SCALE 1:20



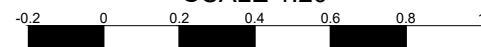
TYPICAL STEEP SLOPE TRAIL CROSS SECTION E

SCALE 1:20



TYPICAL STEEP SLOPE TRAIL CROSS SECTION F

SCALE 1:20



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COURTENAY OFFICE

#201- 780 GRANT AVENUE

COURTENAY, BC V9N 2T3

PH.: 778-647-5643 FAX: 866-235-6943

EGBC PERMIT TO PRACTICE No.: 1002678

TRAIL LAYOUT FOR THE DENMAN ISLAND TRAIL

DWG No:1077-21- 021

SHEET: 22 OF 25

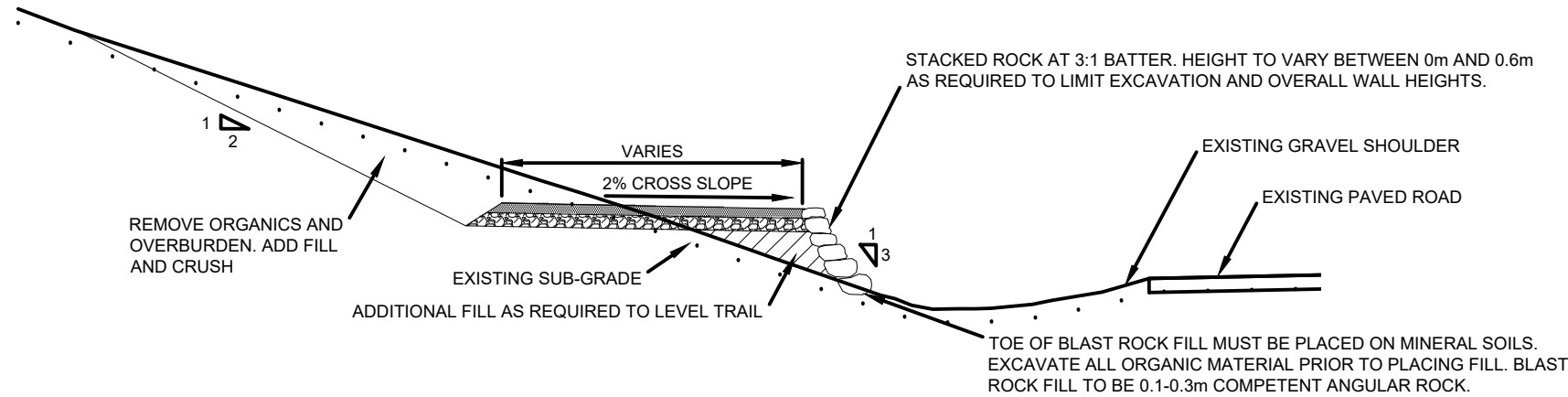
DESIGN BY: MICHAEL HANSON, P.ENG.
DESIGN DATE: MARCH 29, 2022
REVIEWED BY: JEREMY ARAKI, P.ENG.
DRAWN BY: STEFANIE NOACK
SITE VISIT: ONSITE ENGINEERING LTD.
SITE VISIT DATES: DECEMBER 23, 2021
FILE NAME: 1077-21 DENMANTRAIL.DWG
SCALE: AS NOTED
REVISION NUMBER: 4
REVISION DATE: OCTOBER 27, 2022
ALL MEASUREMENTS IN m UNLESS OTHERWISE NOTED.

SEAL OF B.C. P.ENG.

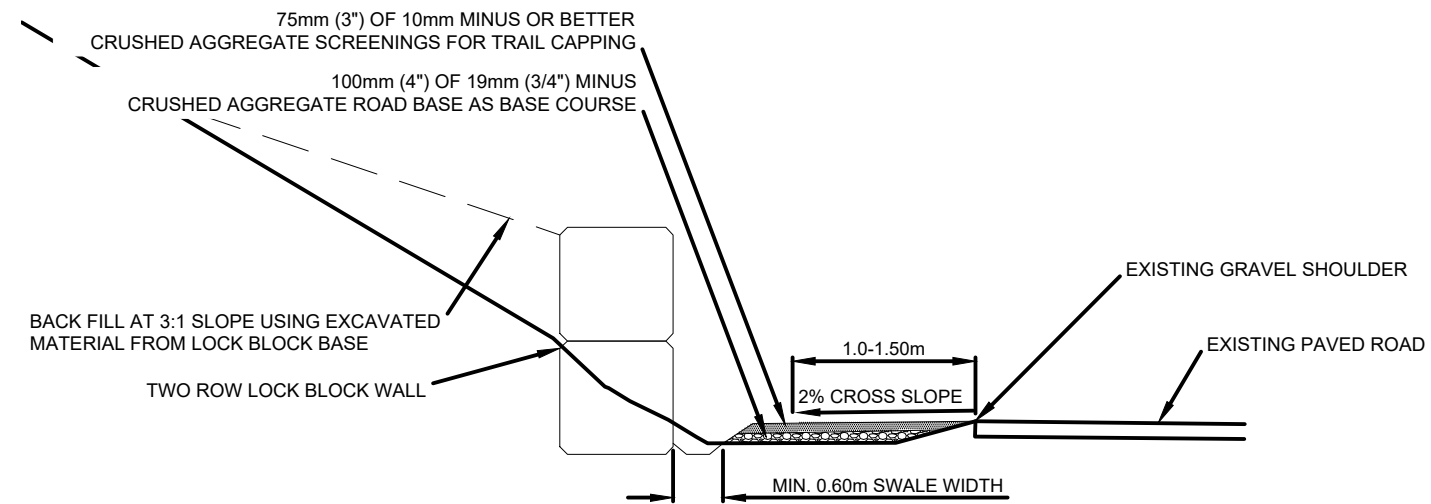


2022-10-27

EDGE OF DITCH	---	WATER VALVE	⊗
DITCH CENTERLINE	---	FIRE HYDRANT	⊙
EDGE OF GRAVEL	---	WATER SERVICE	⊗
EDGE OF PAVEMENT	---	IRRIGATION CONTROL VALVE	⊗
FENCE	---	UTILITY POLE	⊙
SIGN	---	GUY WIRE ANCHOR	→
IRON PIN	●	SURVEY MONUMENT	▼



TYPICAL STEEP SLOPE TRAIL CROSS SECTION G - OPTION 1
SCALE 1:50



TYPICAL STEEP SLOPE TRAIL CROSS SECTION G - OPTION 2
SCALE 1:50



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EGBC PERMIT TO PRACTICE No.: 1002678

TRAIL LAYOUT FOR THE DENMAN ISLAND TRAIL

DWG No:1077-21- 022

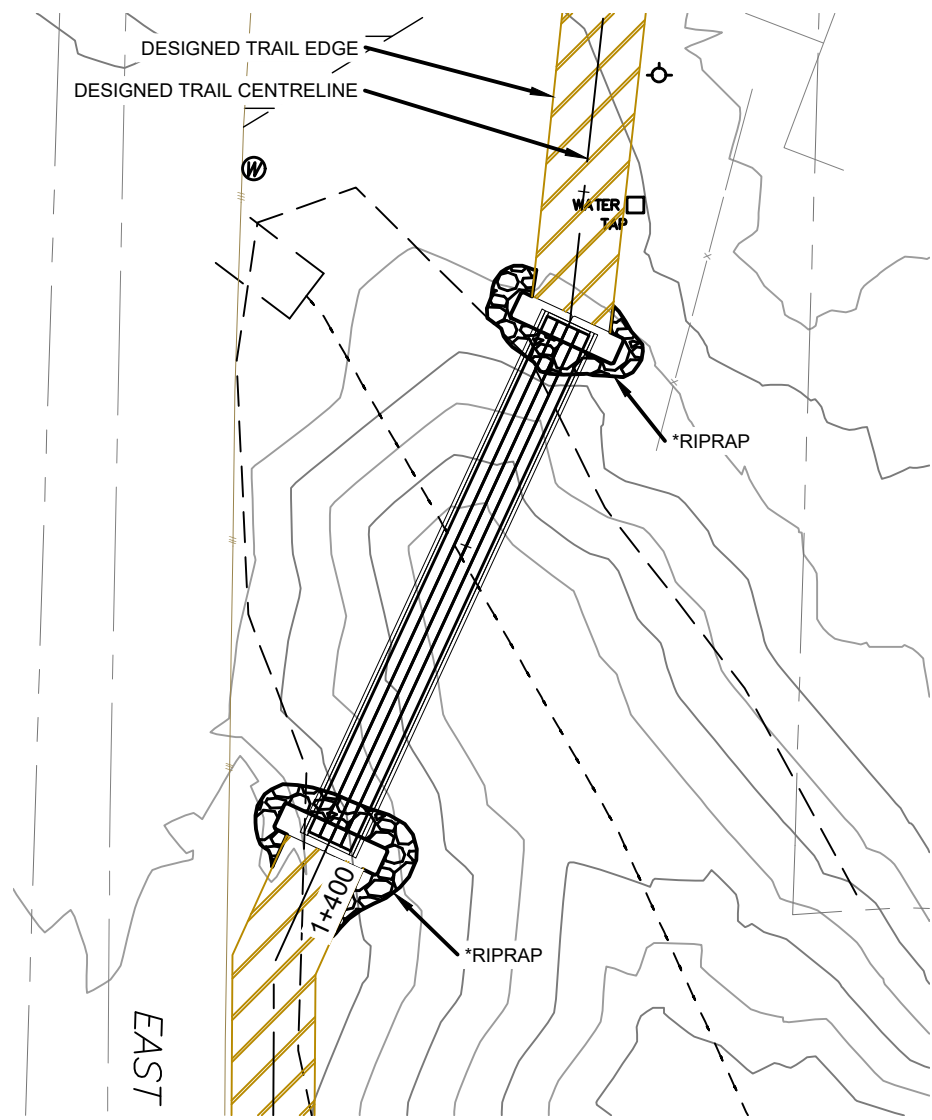
SHEET: 23 OF 25

DESIGN BY: MICHAEL HANSON, P.ENG.
DESIGN DATE: MARCH 29, 2022
REVIEWED BY: JEREMY ARAKI, P.ENG.
DRAWN BY: STEFANIE NOACK
SITE VISIT: ONSITE ENGINEERING LTD.
SITE VISIT DATES: DECEMBER 23, 2021
FILE NAME: 1077-21 DENMANTRAIL.DWG
SCALE: AS NOTED
REVISION NUMBER: 4
REVISION DATE: OCTOBER 27, 2022
ALL MEASUREMENTS IN m UNLESS OTHERWISE NOTED.

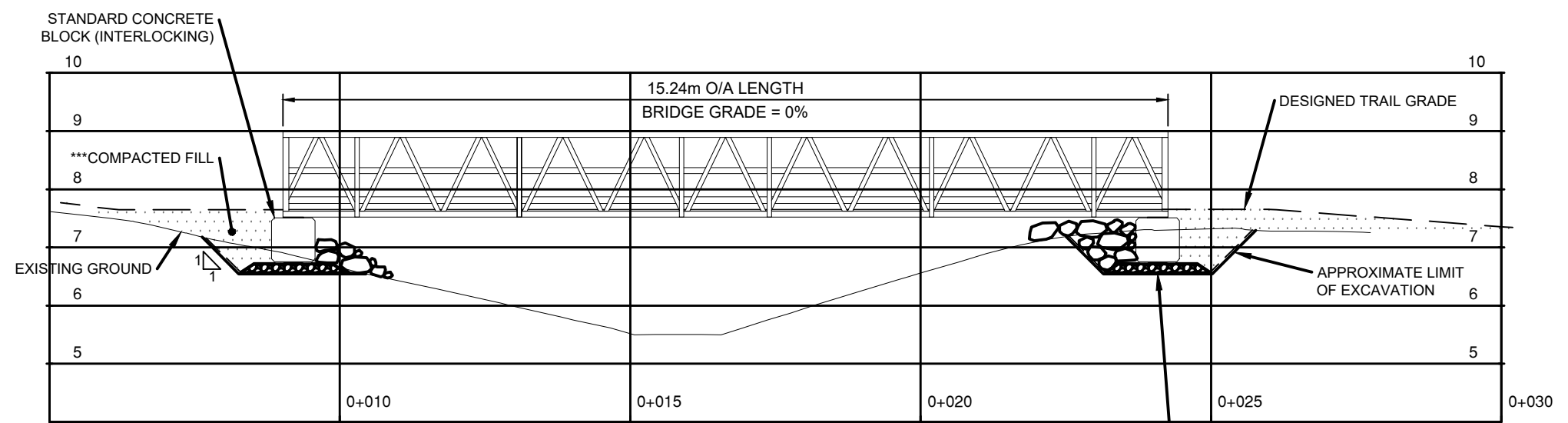
SEAL OF B.C. P.ENG.



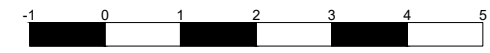
EDGE OF DITCH	----	WATER VALVE	⊗
DITCH CENTERLINE	----	FIRE HYDRANT	⊙
EDGE OF GRAVEL	----	WATER SERVICE	⊕
EDGE OF PAVEMENT	----	IRRIGATION CONTROL VALVE	⊞
FENCE	—x—	UTILITY POLE	⊙
SIGN	⊞	GUY WIRE ANCHOR	→
IRON PIN	●	SURVEY MONUMENT	▼



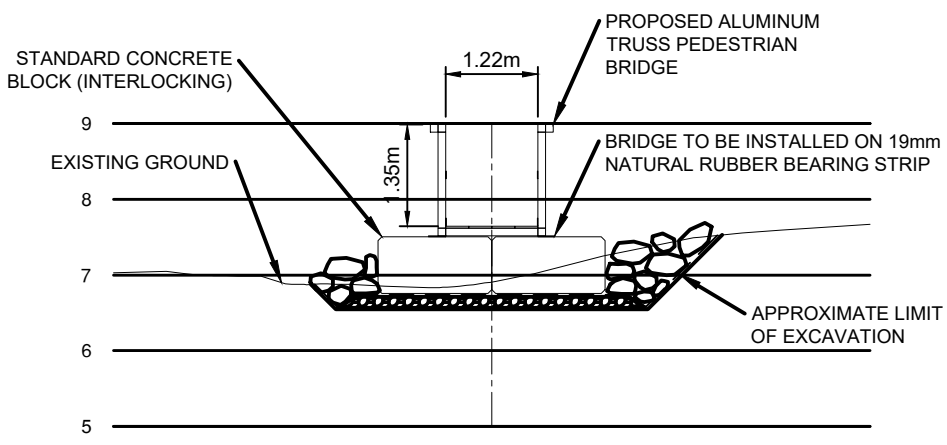
PLAN VIEW BRIDGE 3
SCALE 1:200



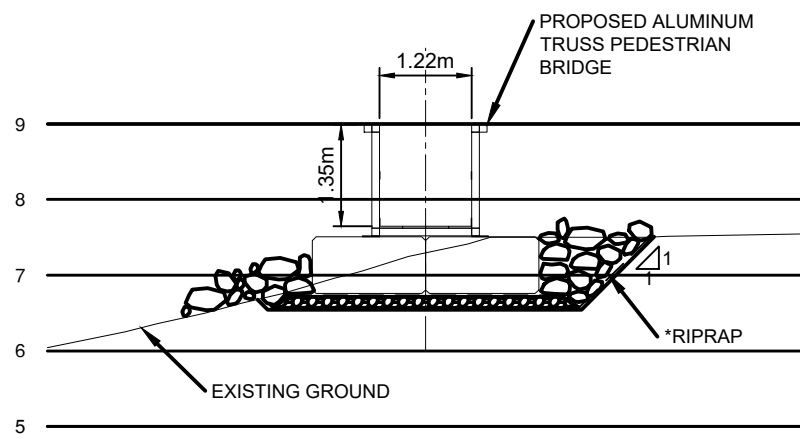
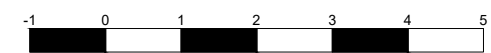
ELEVATION VIEW BRIDGE 3
SCALE 1:100



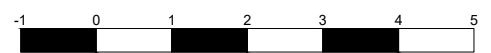
COMPACTED LEVELING COURSE (MIN. 0.15m DEEP) WRAPPED WITH MIRAFI 180N NON-WOVEN GEOTEXTILE OR APPROVED EQUIVALENT. ALL EXPOSED NON-WOVEN GEOTEXTILE TO BE COVERED WITH RIPRAP TO PROVIDE UV PROTECTION.



LOW CHAIN ABUTMENT CROSS SECTION
SCALE 1:100



HIGH CHAIN ABUTMENT CROSS SECTION
SCALE 1:100



***COMPACTED FILL GRANULAR FILL TO BE COMPACTED TO AT LEAST 95% OF THE STANDARD PROCTOR MAXIMUM DRY DENSITY.

PREPARED FOR: 	PREPARED BY: ONSITE ENGINEERING LTD. www.onsite-engineering.ca COURTENAY OFFICE #201- 780 GRANT AVENUE COURTENAY, BC V9N 2T3 PH.: 778-647-5643 FAX: 866-235-6943 EGBC PERMIT TO PRACTICE No.: 1002678
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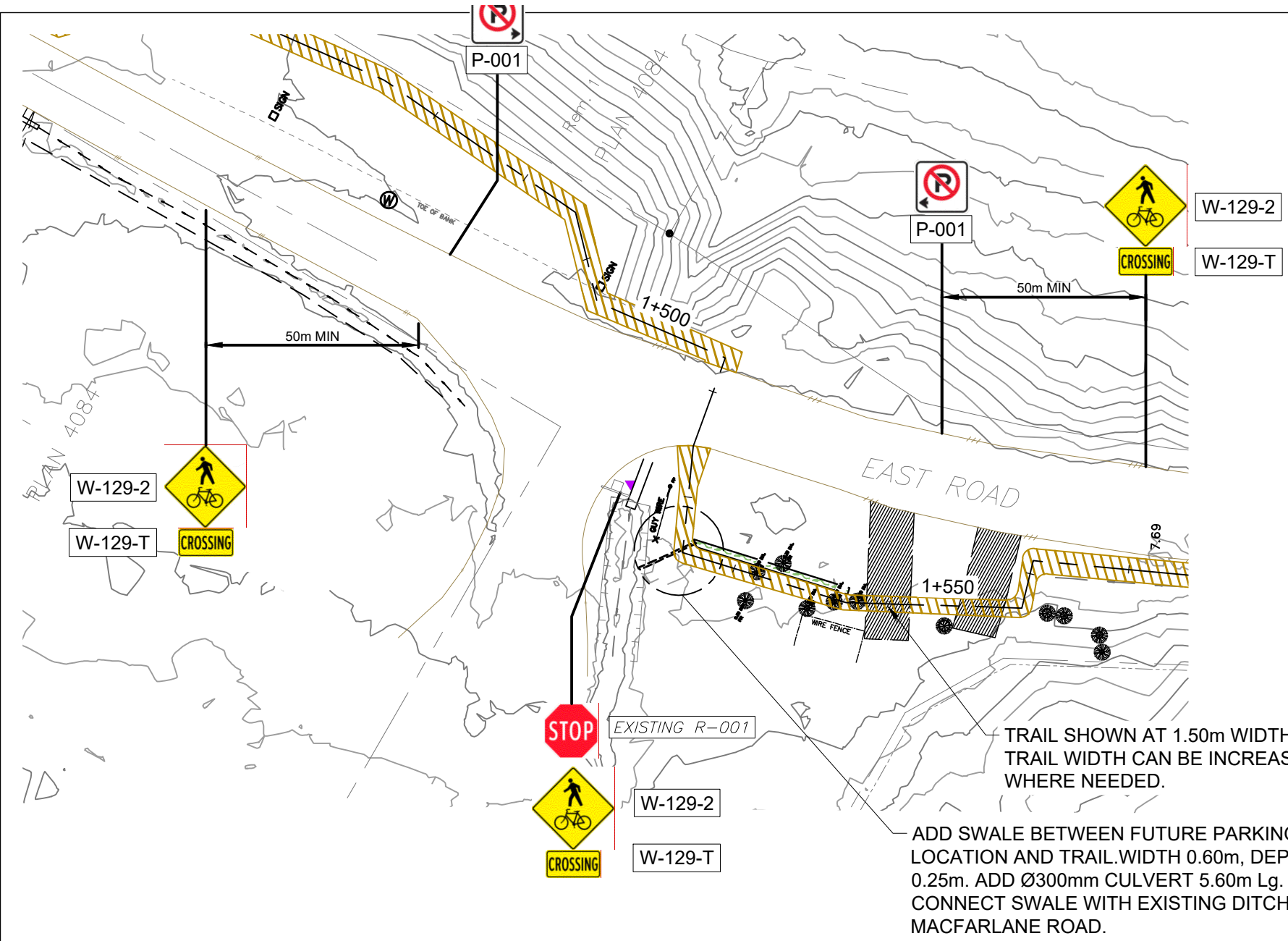
TRAIL LAYOUT FOR THE DENMAN ISLAND TRAIL

DWG No: 1077-21- 023 SHEET: 24 OF 25

DESIGN BY: MICHAEL HANSON, P.ENG.
 DESIGN DATE: MARCH 29, 2022
 REVIEWED BY: JEREMY ARAKI, P.ENG.
 DRAWN BY: STEFANIE NOACK
 SITE VISIT: ONSITE ENGINEERING LTD.
 SITE VISIT DATES: DECEMBER 23, 2021
 FILE NAME: 1077-21 DENMANTRAIL.DWG
 SCALE: AS NOTED
 REVISION NUMBER: 4
 REVISION DATE: OCTOBER 27, 2022
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SEAL OF B.C. P.ENG.

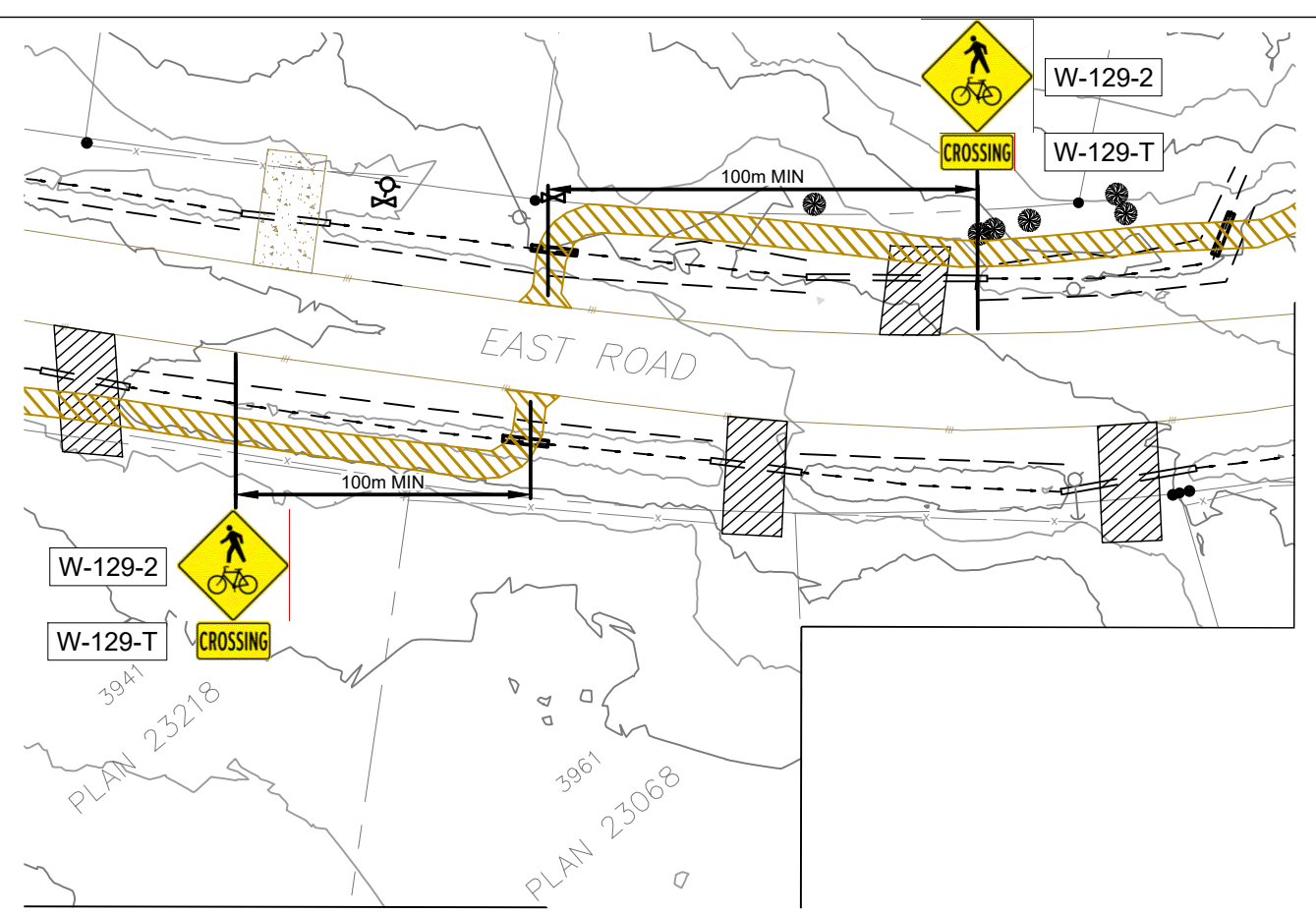
EDGE OF DITCH	---	WATER VALVE	
DITCH CENTERLINE	---	FIRE HYDRANT	
EDGE OF GRAVEL	---	WATER SERVICE	
EDGE OF PAVEMENT	---	IRRIGATION CONTROL VALVE	
FENCE	-x-	UTILITY POLE	
SIGN		GUY WIRE ANCHOR	
IRON PIN	•	SURVEY MONUMENT	



MACFARLANE ROAD INTERSECTION LAYOUT
SCALE N.T.S.

ADD SWALE BETWEEN FUTURE PARKING LOCATION AND TRAIL. WIDTH 0.60m, DEPTH 0.25m. ADD Ø300mm CULVERT 5.60m Lg. TO CONNECT SWALE WITH EXISTING DITCH AT MACFARLANE ROAD.

NOTE:
KEEP WORKZONE AWAY FROM POWER POLE AND GUY WIRE (MIN 4x DIA. OF POWER POLE) TO AVOID INTERFERENCE.



3961 EAST ROAD TRAIL CROSSING LAYOUT
SCALE N.T.S.

PREPARED FOR: Comox Valley REGIONAL DISTRICT	PREPARED BY: ONSITE ENGINEERING LTD. www.onsite-engineering.ca COURTENAY OFFICE #201- 780 GRANT AVENUE COURTENAY, BC V9N 2T3 PH.: 778-647-5643 FAX: 866-235-6943 EGBC PERMIT TO PRACTICE No.: 1002678
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TRAIL LAYOUT FOR THE DENMAN ISLAND TRAIL

DWG No: 1077-21- 023	SHEET: 25 OF 25
----------------------	-----------------

DESIGN BY: MICHAEL HANSON, P.ENG.
DESIGN DATE: MARCH 29, 2022
REVIEWED BY: JEREMY ARAKI, P.ENG.
DRAWN BY: STEFANIE NOACK
SITE VISIT: ONSITE ENGINEERING LTD.
SITE VISIT DATES: DECEMBER 23, 2021
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SEAL OF B.C. P.ENG.

EDGE OF DITCH	---	WATER VALVE	⊗
DITCH CENTERLINE	---	FIRE HYDRANT	⊙
EDGE OF GRAVEL	---	WATER SERVICE	⊙
EDGE OF PAVEMENT	---	IRRIGATION CONTROL VALVE	⊙
FENCE	-x-	UTILITY POLE	⊙
SIGN	⊥	GUY WIRE ANCHOR	→
IRON PIN	•	SURVEY MONUMENT	▽