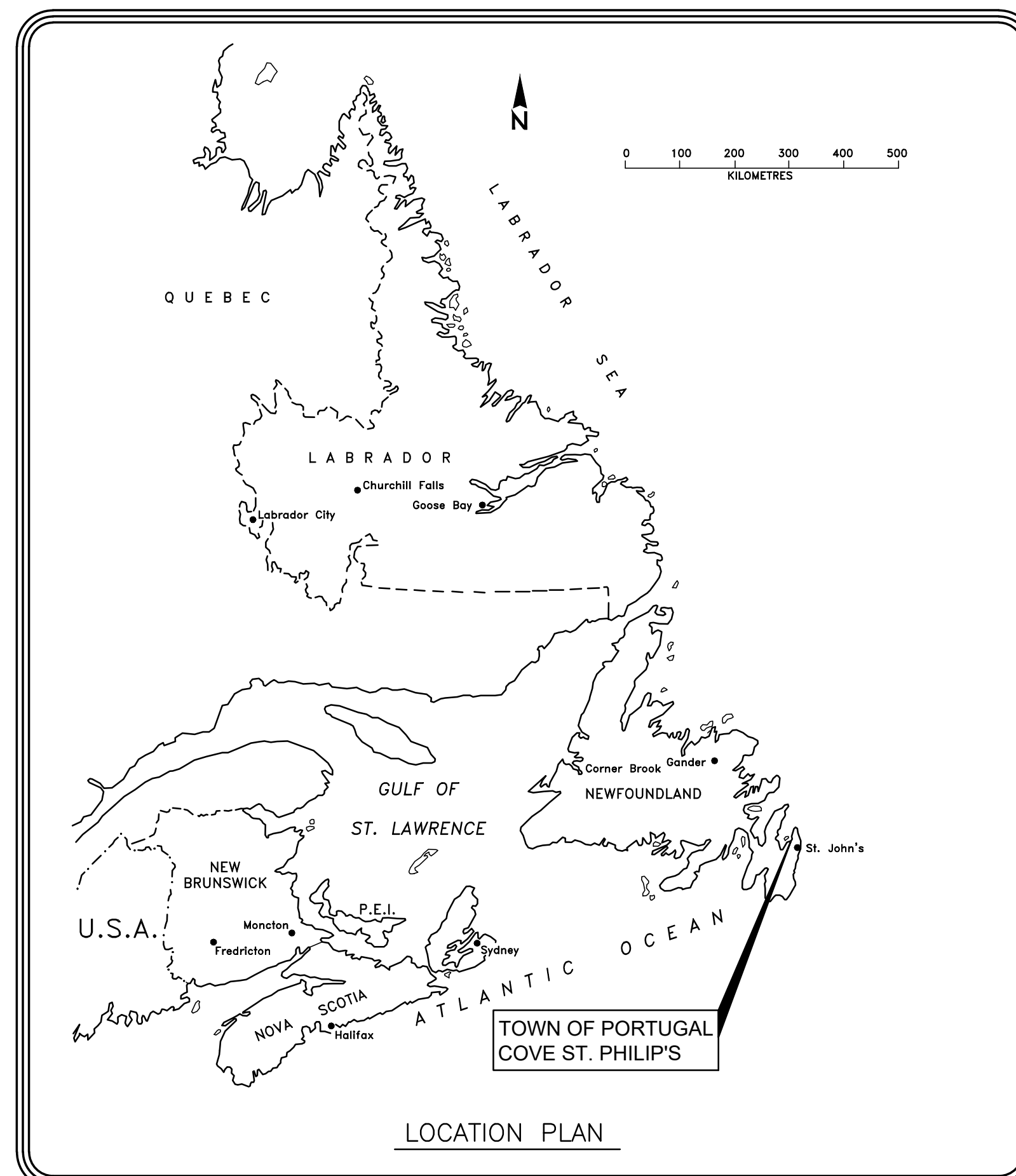


TOWN OF PORTUGAL COVE ST. PHILIP'S NEWFOUNDLAND AND LABRADOR

WESTER POINT COASTAL EROSION



LIST OF DRAWINGS

- C1
SITE LOCATION PLAN
- C2
SITE PLAN
- C3
SECTIONS
- D1
NOTES & DETAILS

ISSUED FOR TENDER
JUNE 2020

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ENGINEERING LTD.

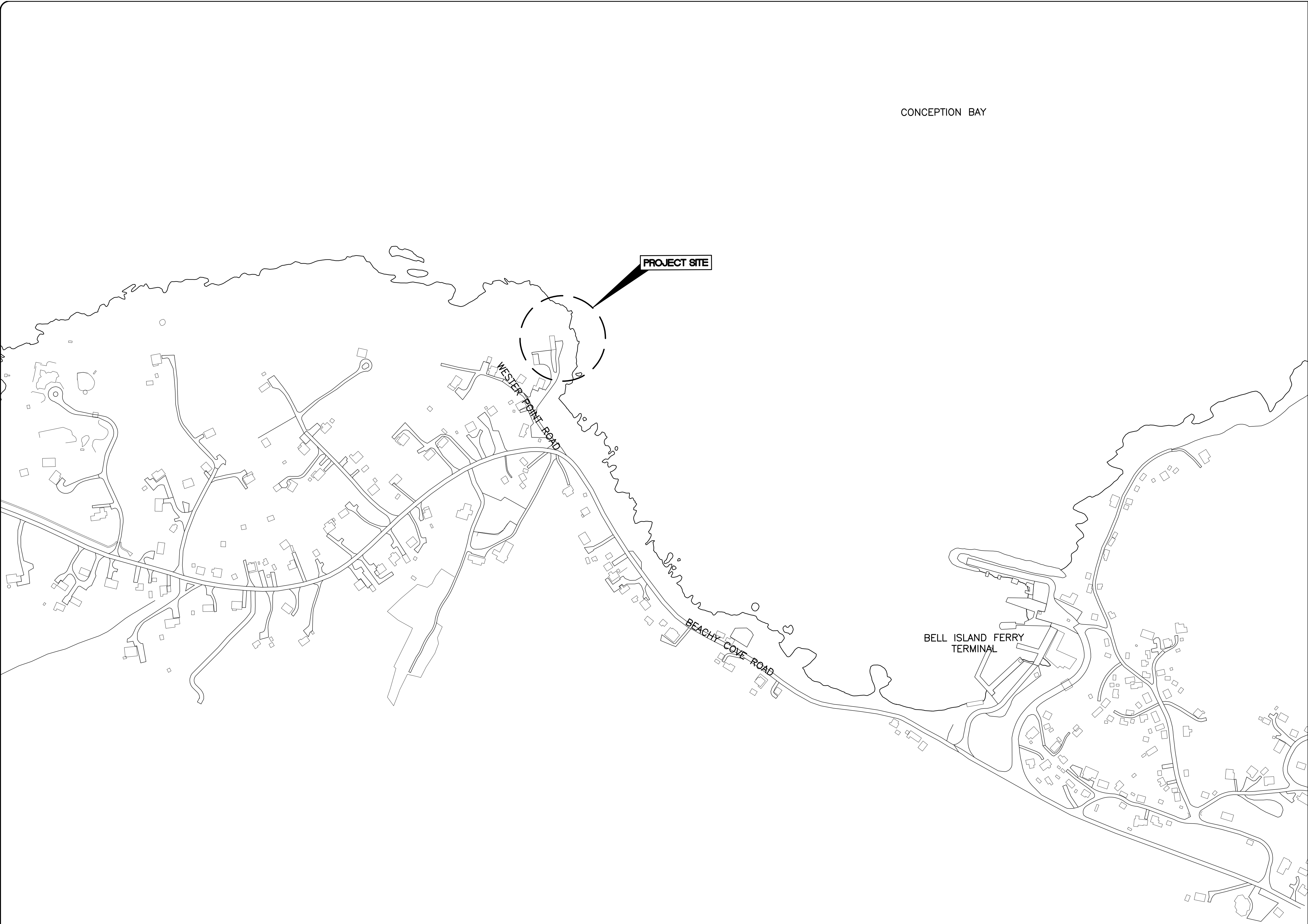
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ST. JOHN'S, NL FAX: (709) 368-0318
A1E 2Z6 info@DynamicEngineering.ca

CLIENT PROJECT No.:

DEL PROJECT No.:

20207



PLAN — SITE LOCATION PLAN

0 50 100m

Scale 1:2500

NOTES:

0	ISSUED FOR TENDER	RHM	06/26/20
No.	REVISIONS	BY	DATE

A

A — PLAN, SECTION, ELEVATION, OR DETAIL No.

B

B — No. OF DRAWING WHERE ABOVE IS DRAWN

REFERENCE:

STAMP:

PROFESSIONAL ENGINEER
Newfoundland and Labrador
REGISTERED PROFESSIONAL ENGINEER
RUSSELL H MURPHY
SIGNATURE
06/26/20
DATE
NEWFOUNDLAND & LABRADOR

PERMIT STAMP:

PROVINCE OF NEWFOUNDLAND AND LABRADOR
PERMIT HOLDER
This Permit Allows
DYNAMIC ENGINEERING LTD.
To practice Professional Engineering
in Newfoundland and Labrador
Permit No. as issued by PEG N0579
which is valid for the year 2020

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TOWN OF
PORTUGAL COVE —
ST. PHILIP'S

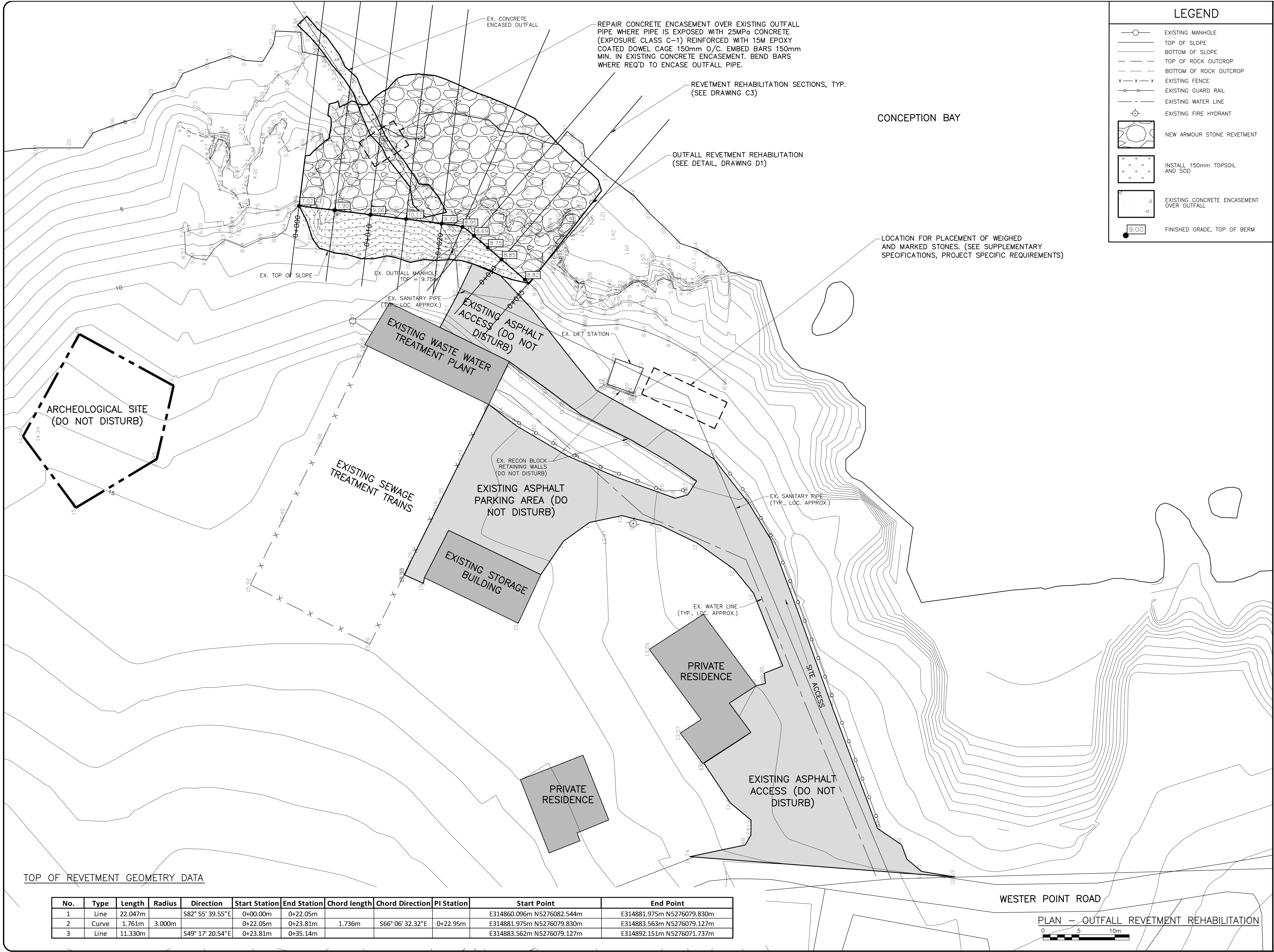
PROJECT TITLE:

WESTER POINT
COASTAL EROSION

DRAWING TITLE:

SITE LOCATION PLAN

DRAWN/DESIGNED BY:	DATE:	
RHM	APRIL 2020	
APPROVED BY:	SCALE:	
RHM	AS SHOWN	
PROJECT No.:	DRAWING No.:	REV.:
20207	C1	0



LEGEND

- EXISTING MANHOLE
- TOP OF SLOPE
- BOTTOM OF SLOPE
- TOP OF ROCK OUTCROP
- BOTTOM OF ROCK OUTCROP
- EXISTING FENCE
- EXISTING GUARD RAIL
- EXISTING WATER LINE
- EXISTING FIRE HYDRANT
- NEW ARMOUR STONE REVETMENT
- INSTALL 150mm TOPSOIL AND SOD
- EXISTING CONCRETE ENCASUREMENT OVER OUTFALL
- FINISHED GRADE, TOP OF BERM

NOTES:

- DO NOT SCALE FROM DRAWINGS. ALL ELEVATIONS AND DIMENSIONS ARE IN METRES UNLESS OTHERWISE NOTED. ALL ELEVATIONS ARE BASED ON GEODETIC DATUM.
- ALL WORK MUST BE PERFORMED IN ACCORDANCE WITH THE LATEST EDITIONS OF THE DEPARTMENT OF MUNICIPAL AFFAIRS "MUNICIPAL WATER, SEWER AND ROAD SPECIFICATIONS" (MASTER SPEC) LATEST EDITION, AND THE TOWN OF PORTUGAL COVE ST. PHILIP'S REGULATIONS OR STANDARDS, LATEST EDITION.
- CONTRACTOR SHALL CONFIRM LOCATION, ALIGNMENT, INVERTS AND TYPE OF MATERIAL OF ALL UNDERGROUND INFRASTRUCTURE AND SHALL NOTIFY THE ENGINEER/OWNER OF ANY DISCREPANCIES PRIOR TO COMMENCING ANY WORK.
- TOPOGRAPHICAL SURVEY AND DESIGN REFERENCED TO NLCMB303281 - N5276352.257, E315734.459, ELEV. 38.693
- CONTRACTOR SHALL ADHERE TO ALL REGULATORY GUIDELINES FOR WORKING NEAR OR IN WATER AND ALL ASSOCIATED COSTS ARE INCIDENTAL TO THE WORK.
- FOR ADDITIONAL NOTES AND DETAILS REFER TO SHEET D1.

No.	ISSUED FOR TENDER	RHM	06/26/20
REVISIONS			
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CLIENT:

TOWN OF PORTUGAL COVE - ST. PHILIP'S

PROJECT TITLE:

WESTER POINT COASTAL EROSION

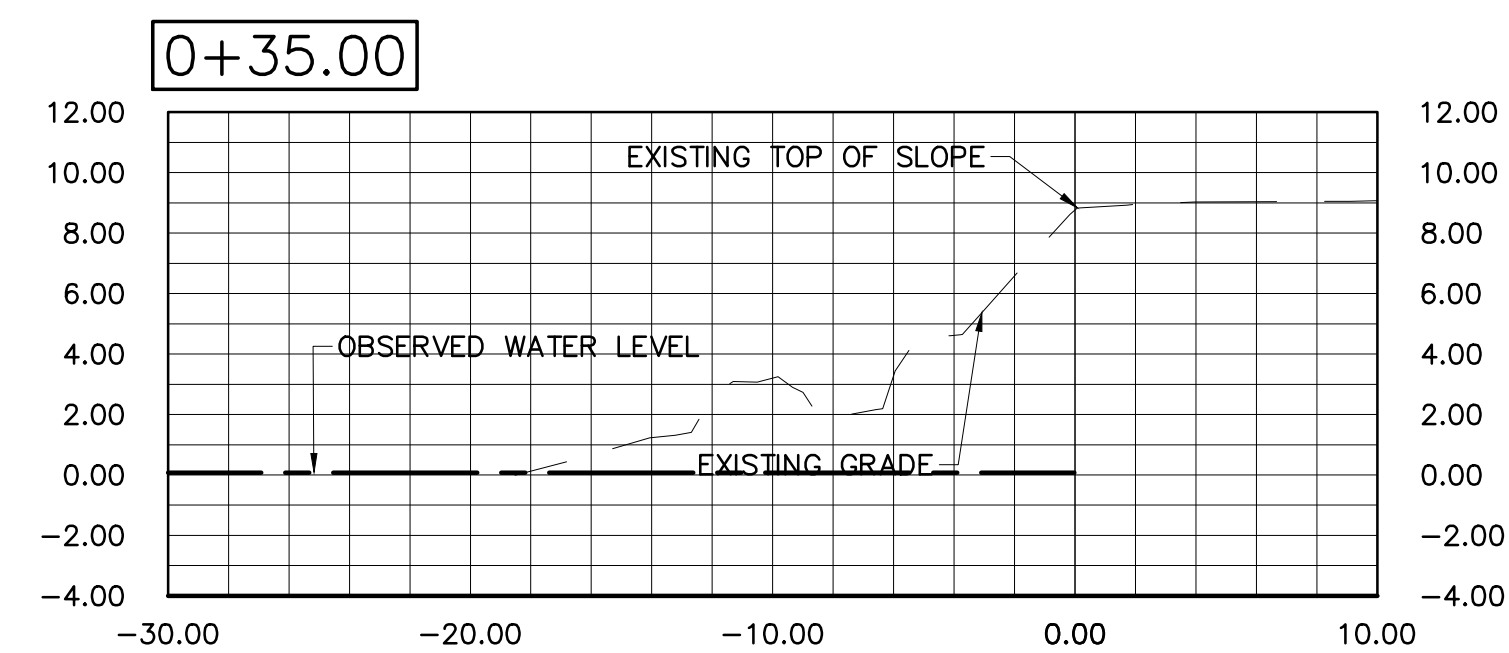
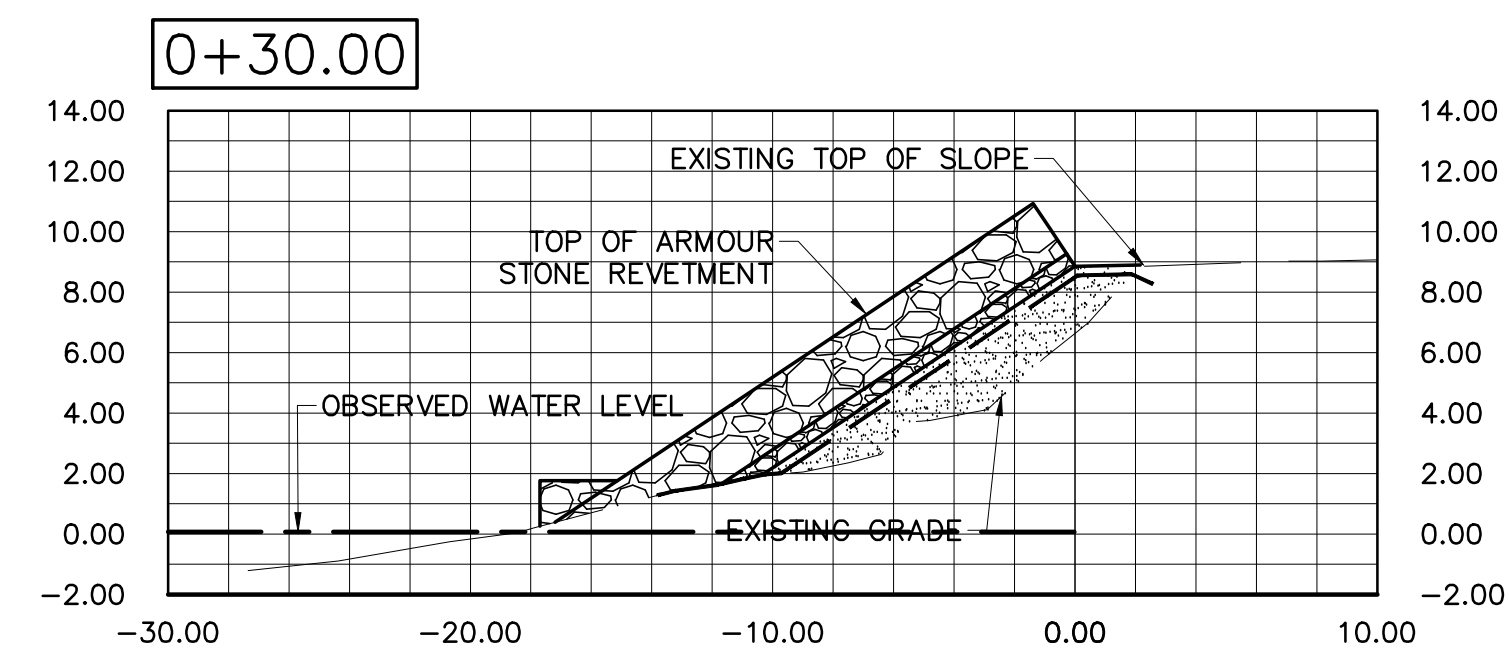
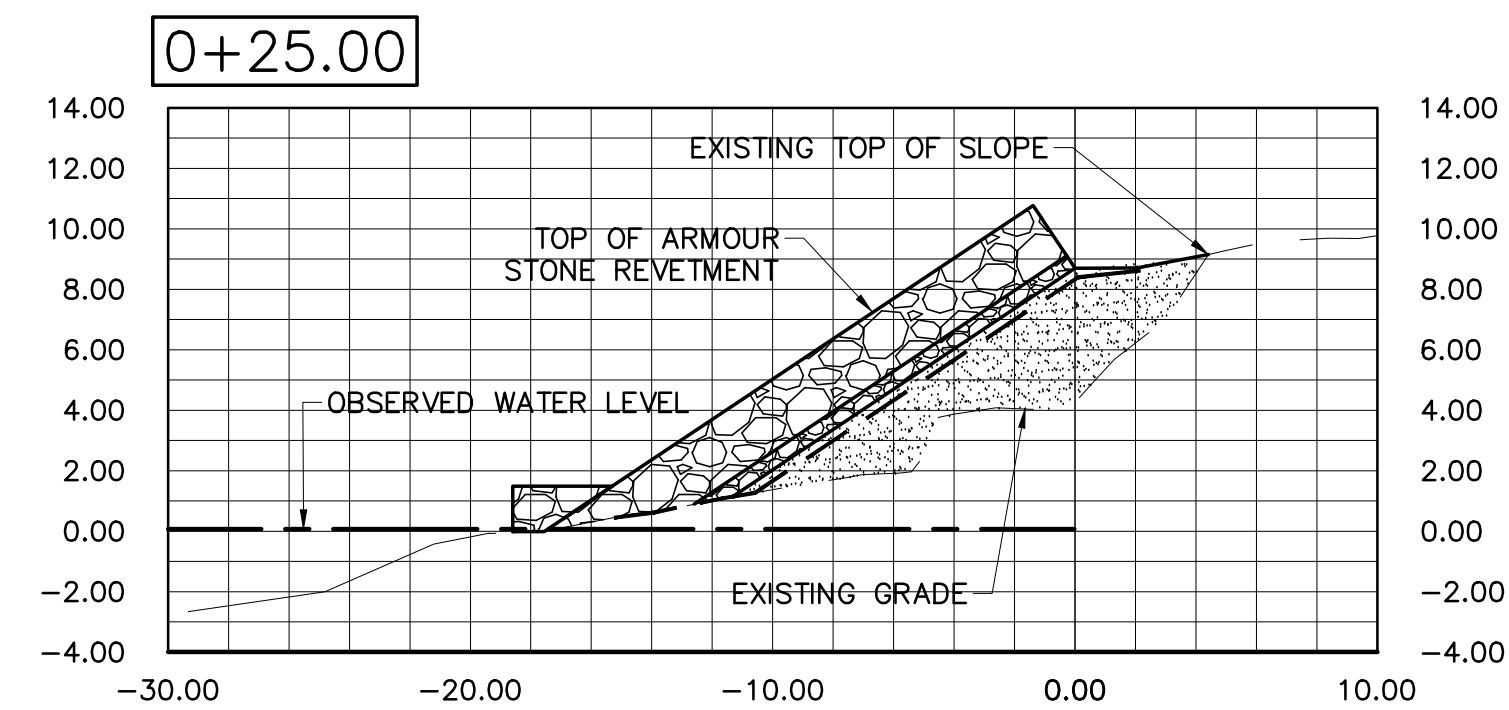
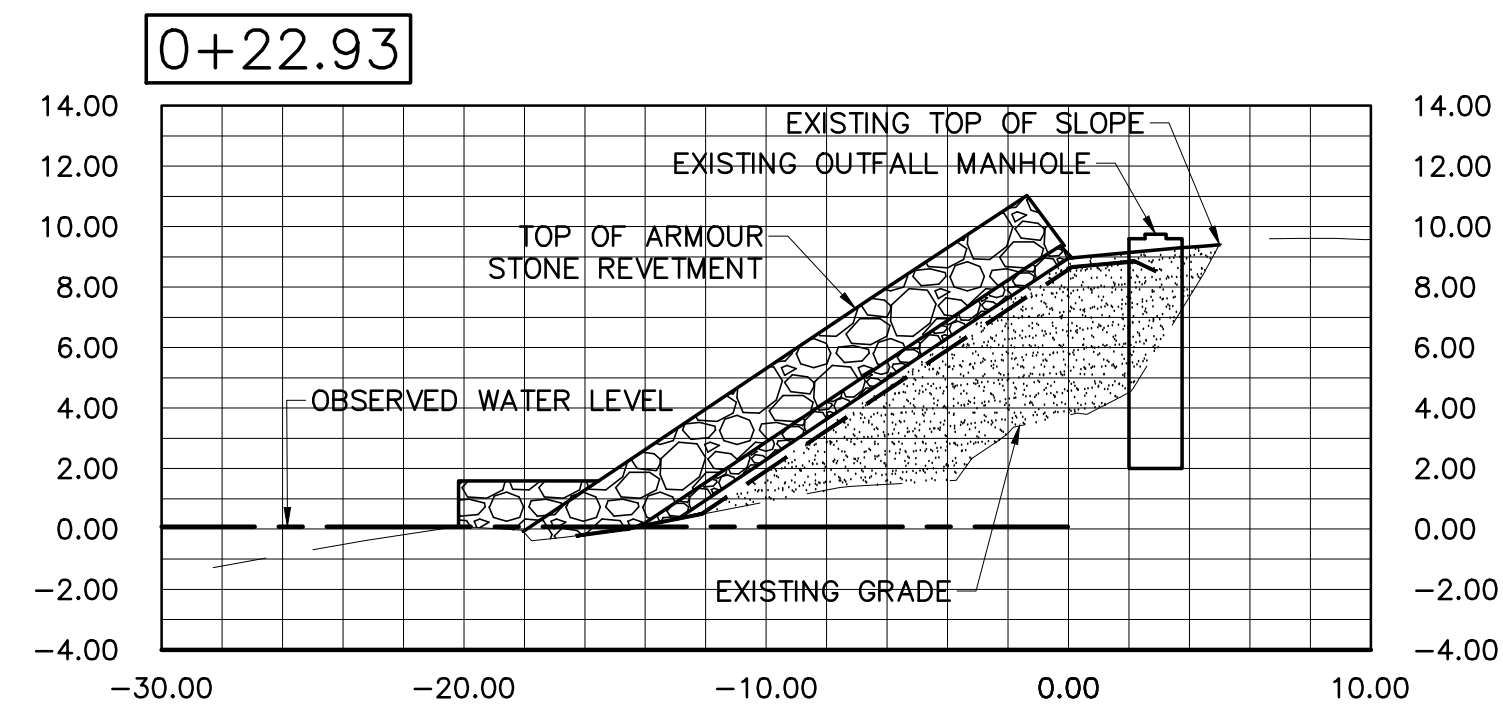
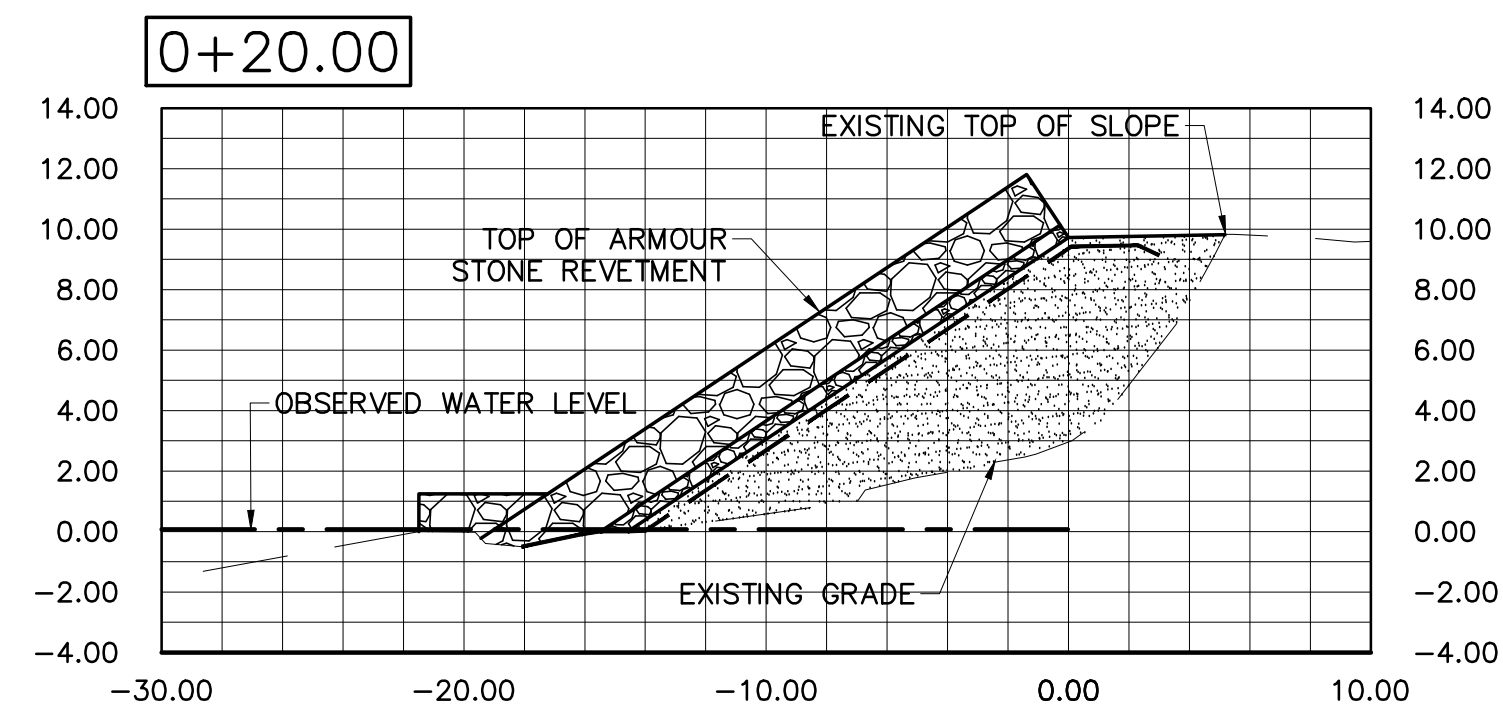
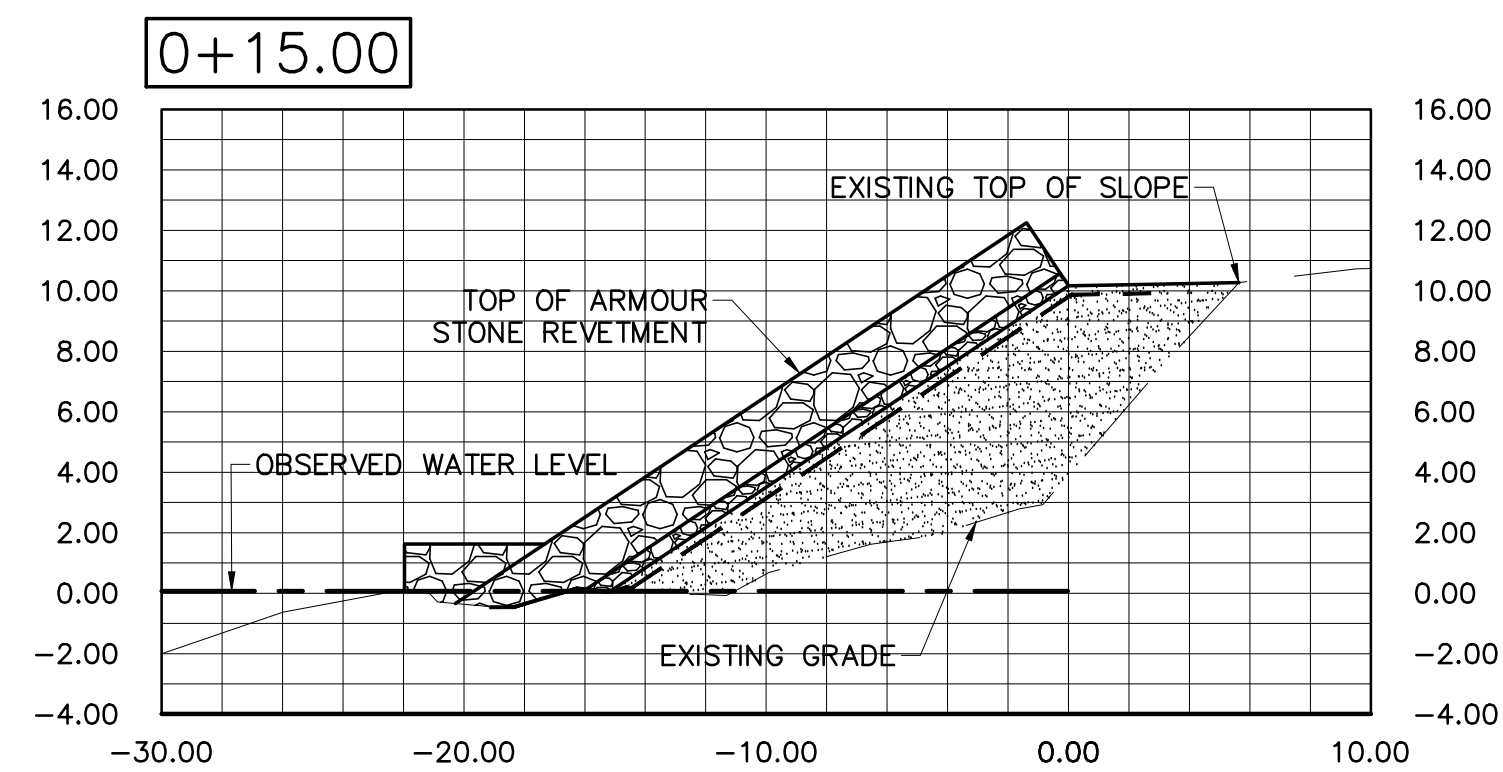
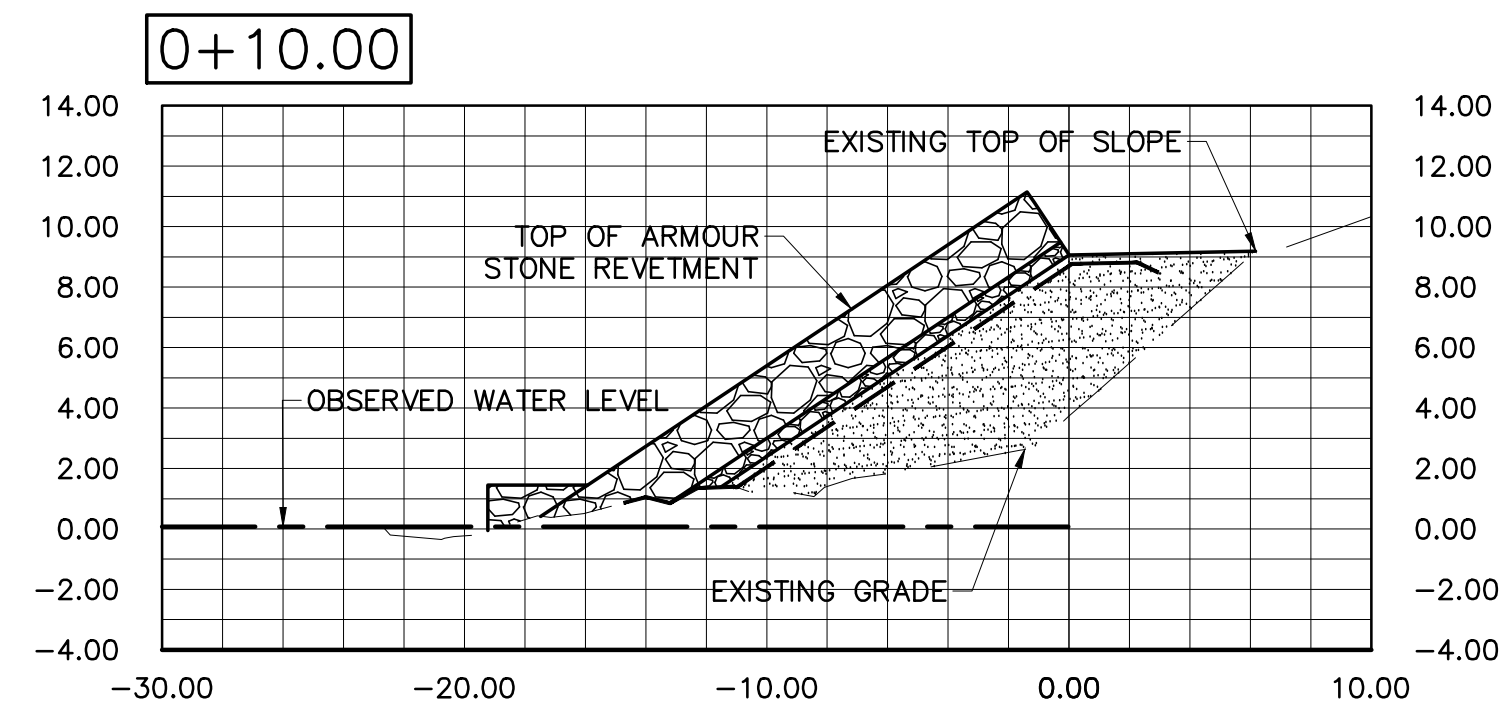
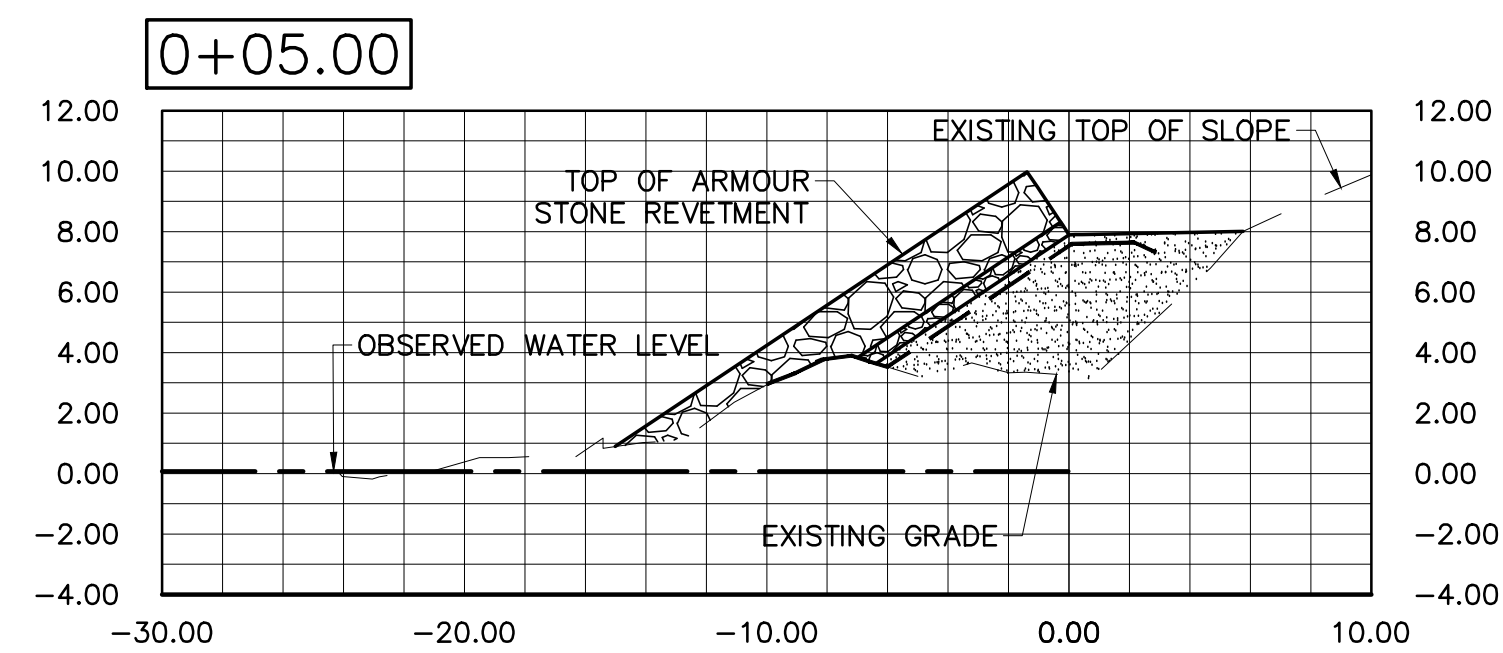
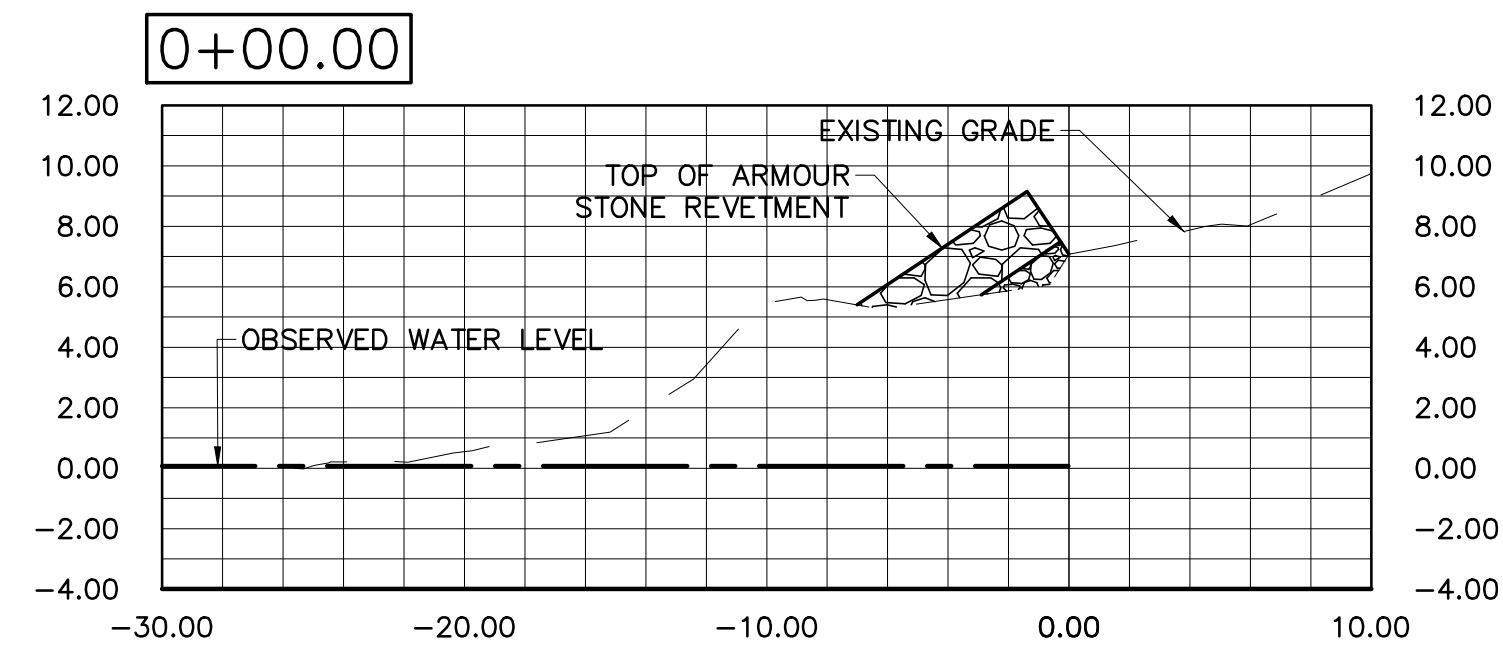
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SITE PLAN

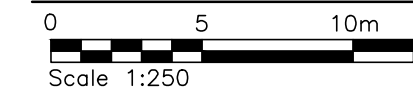
DRAWN/DESIGNED BY: RHM DATE: APRIL 2020

APPROVED BY: RHM SCALE: AS SHOWN

PROJECT No.: 20207 DRAWING No.: C2 REV.: 0



SECTIONS — OUTFALL REVETMENT REHABILITATION



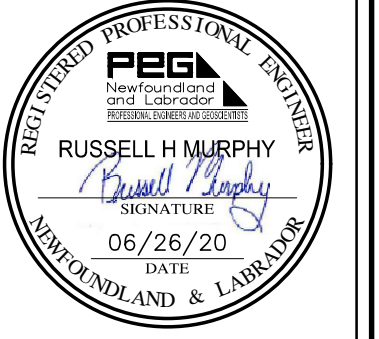
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CLIENT:

TOWN OF
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ST. PHILIP'S

PROJECT TITLE:

WESTER POINT
COASTAL EROSION

DRAWING TITLE:

SECTIONS

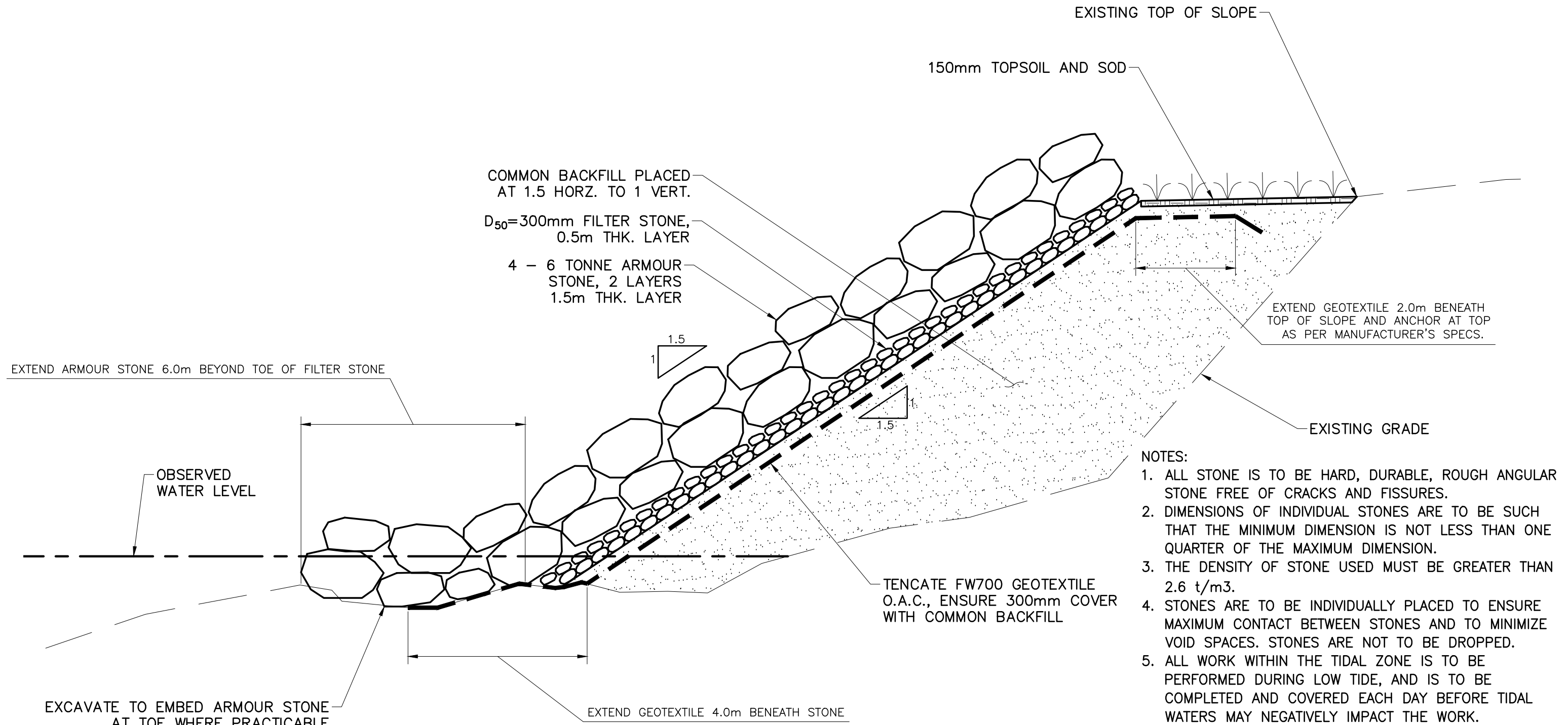
DRAWN/DESIGNED BY:	RHM	DATE:	APRIL 2020
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APPROVED BY:	RHM	SCALE:	AS SHOWN
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PROJECT No.:	20207	DRAWING No.:	C3	REV.:	0
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NOTES:

- DO NOT SCALE FROM DRAWINGS. ALL MEASUREMENTS ARE IN METERS UNLESS OTHERWISE NOTED. ALL ELEVATIONS ARE BASED ON GEODETIC DATUM.
- ALL WORK MUST BE PERFORMED IN ACCORDANCE WITH THE REQUIREMENTS OF THE APPLICABLE SECTIONS OF THE MUNICIPAL WATER, SEWER AND ROAD SPECIFICATIONS, LATEST EDITION, AS PUBLISHED BY THE GOVERNMENT OF NEWFOUNDLAND AND LABRADOR, DEPARTMENT OF MUNICIPAL AFFAIRS AND ENVIRONMENT, AND THE TOWN OF PORTUGAL COVE ST. PHILIP'S REGULATIONS OR STANDARDS, LATEST EDITION.
- CONTRACTOR SHALL CONFIRM LOCATION, ALIGNMENT, INVERTS, AND TYPES OF MATERIAL OF ALL UNDERGROUND SERVICES AND SHALL NOTIFY THE ENGINEER/OWNER OF ANY DISCREPANCIES PRIOR TO COMMENCING ANY WORK.
- CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND SITE CONDITIONS AND NOTIFY THE ENGINEER/OWNER OF ANY DISCREPANCIES AND/OR UNSATISFACTORY CONDITIONS OR CONFLICTS, PRIOR TO STARTING WORK.
- CONTRACTOR SHALL LOCATE ALL EXISTING U/G POWER AND TELECOMMUNICATIONS LINES IN CONJUNCTION WITH UTILITY COMPANY AND OBTAIN ANY REQUIRED PERMITS. LINES SHALL BE KEPT IN SERVICE WHERE TRENCHING AND EXCAVATION ENCOUNTERS U/G LINES. CONTRACTOR SHALL SUBMIT SUPPORT AND BRACING DETAILS TO UTILITY COMPANY FOR APPROVAL, AND COPY TO ENGINEER, PRIOR TO UNDERMINING POWER OR TELECOMMUNICATIONS SERVICES.
- PRIOR TO COMMENCING ANY CONSTRUCTION, IT IS RECOMMENDED THAT THE CONTRACTOR CARRY OUT DETAILED SURVEY'S, INCLUDING CROSS-SECTIONS, TO CONFIRM GRADES, ELEVATIONS AND PROFILES. ALL SURVEYS TO BE CONFIRMED WITH ENGINEER.
- CONTRACTOR SHALL CO-ORDINATE AND OBTAIN ANY AND ALL PERMITS REQUIRED FROM THE APPLICABLE AUTHORITIES AND UTILITIES.
- ACCESS TO EXISTING PROPERTIES SHALL BE MAINTAINED AT ALL TIMES.
- ALL SLOPED SURFACES SHALL HAVE A MAXIMUM SLOPE OF 2H:1V AND BE LANDSCAPED, UNLESS NOTED OTHERWISE.
- ALL EXISTING STRUCTURES, UTILITIES, LANDSCAPING, NATURAL VEGETATION, ETC., DISTURBED BY NEW CONSTRUCTION WHICH ARE NOT DESIGNATED TO BE RELOCATED OR RECONSTRUCTED SHALL BE REINSTATED AT THE CONTRACTOR'S EXPENSE TO A CONDITION AS GOOD AS OR BETTER THAN PRIOR TO CONSTRUCTION.
- CONTRACTOR IS RESPONSIBLE TO CO-ORDINATE WITH THE AUTHORITIES TO LOCATE EXISTING UNDERGROUND INFRASTRUCTURE (i.e. TELEPHONE, CABLE, POWER LINES, ETC.), PRIOR TO COMMENCING WORK.
- CONTRACTOR IS RESPONSIBLE FOR LAYOUT OF PROPOSED DESIGN IN THE FIELD AND COLLECTING AS-BUILT INFORMATION USING SURVEY GRADE GPS EQUIPMENT.
- CONTRACTOR IS RESPONSIBLE TO ESTABLISH AND VERIFY BENCHMARKS ON SITE AND TO PROVIDE ENGINEER WITH REQUIRED AS-BUILT DATA COLLECTED WITH SURVEY GRADE GPS EQUIPMENT. ALL REQUIRED AS-BUILT DATA AND RECORDS ARE TO BE SUBMITTED TO THE CONSULTANT AS SOON AS POSSIBLE UPON COMPLETION OF THE WORK. THE CONSULTANT WILL REVIEW THE SUBMITTED DATA AND RECORDS TO CONFIRM THAT IT IS CORRECT AND COMPLETE.
- CONTRACTOR TO ENSURE THAT NECESSARY MITIGATION MEASURES FOR WORK NEAR A WATER BODY ARE IN PLACE WHICH FOLLOWS BEST PRACTICES AS SET OUT BY THE DEPARTMENT OF ENVIRONMENT AND MEASURES SHALL BE TAKEN TO AVOID HARM TO FISH HABITAT AS PER THE DFO FISHERIES ACT.
- GEOTECHNICAL QA/QC TESTING SHALL BE REQUIRED TO CONFIRM MATERIALS MEET SPECIFICATIONS. CONTRACTOR TO INCLUDE COSTS OF ALL GEOTECHNICAL SERVICES IN CONTRACT AND SHALL COORDINATE THESE SERVICES DURING CONSTRUCTION.
- SITE EXCAVATED MATERIAL STOCKPILED FOR RE-USE IN REVETMENT CONSTRUCTION SHALL BE APPROVED BY THE ENGINEER PRIOR TO RE-USE.
- CONTRACTOR IS RESPONSIBLE TO OBTAIN ACCESS TO SITE AND ALL COSTS ASSOCIATED WITH ACCESSING THE SITE ARE TO BE INCLUDED IN THE PRICES QUOTED.



- NOTES:
- ALL STONE IS TO BE HARD, DURABLE, ROUGH ANGULAR STONE FREE OF CRACKS AND FISSURES.
 - DIMENSIONS OF INDIVIDUAL STONES ARE TO BE SUCH THAT THE MINIMUM DIMENSION IS NOT LESS THAN ONE QUARTER OF THE MAXIMUM DIMENSION.
 - THE DENSITY OF STONE USED MUST BE GREATER THAN 2.6 t/m³.
 - STONES ARE TO BE INDIVIDUALLY PLACED TO ENSURE MAXIMUM CONTACT BETWEEN STONES AND TO MINIMIZE VOID SPACES. STONES ARE NOT TO BE DROPPED.
 - ALL WORK WITHIN THE TIDAL ZONE IS TO BE PERFORMED DURING LOW TIDE, AND IS TO BE COMPLETED AND COVERED EACH DAY BEFORE TIDAL WATERS MAY NEGATIVELY IMPACT THE WORK. CONTRACTOR SHALL MAKE NO CLAIM FOR LOSS OR DAMAGE OF MATERIALS USED IN THE WORK DUE TO TIDAL WATERS.
 - EXISTING MATERIALS AND LARGE STONE CURRENTLY ON SITE MAY BE INCORPORATED INTO THE WORK SHOULD IT CONFORM TO THE SPECIFICATIONS.

NOTES:

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COASTAL EROSION

DRAWING TITLE:

NOTES & DETAILS

DRAWN/DESIGNED BY:	RHM	DATE:	APRIL 2020
APPROVED BY:	RHM	SCALE:	AS SHOWN
PROJECT No.:	20207	DRAWING No.:	D1
		REV.:	0