

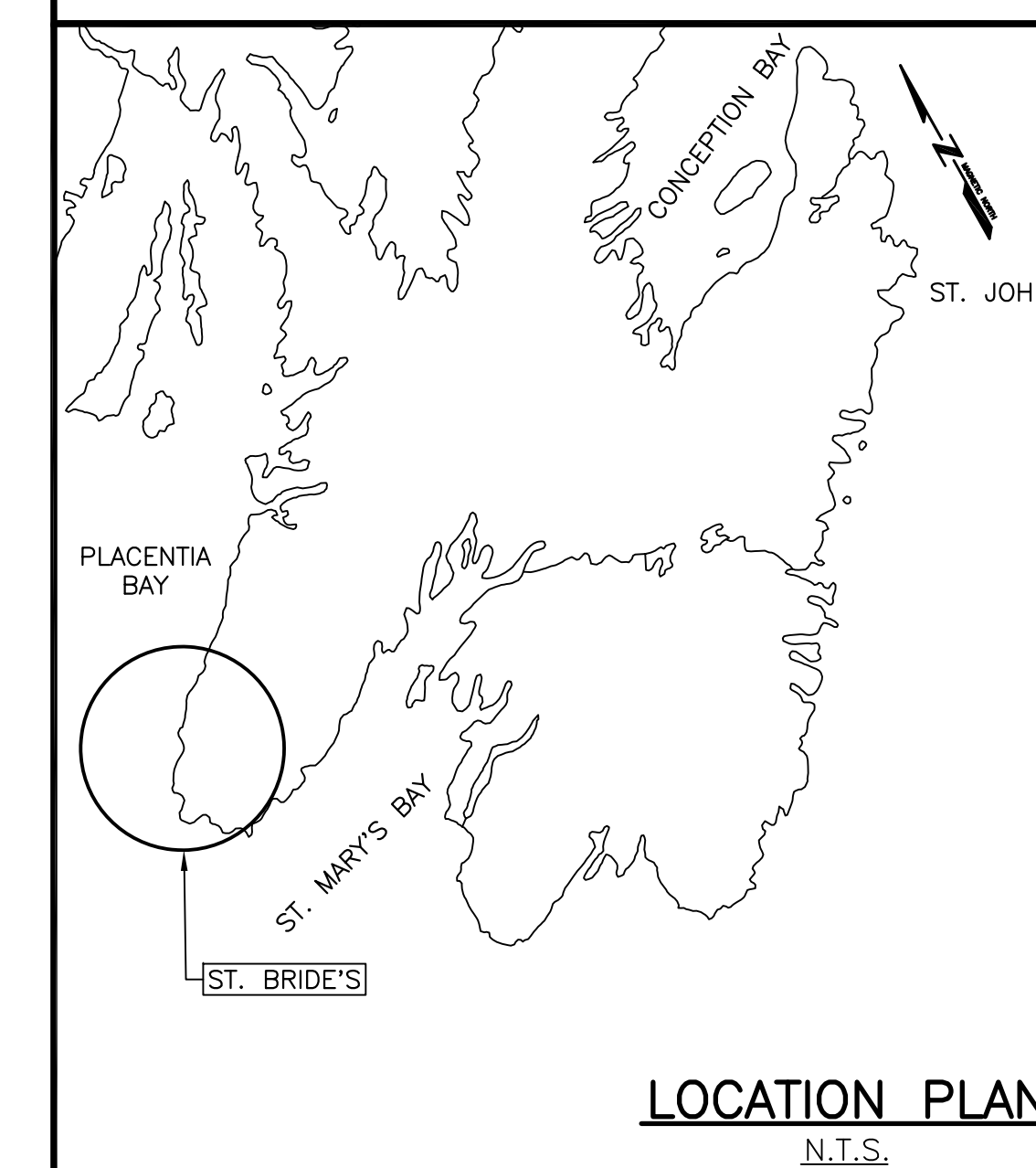
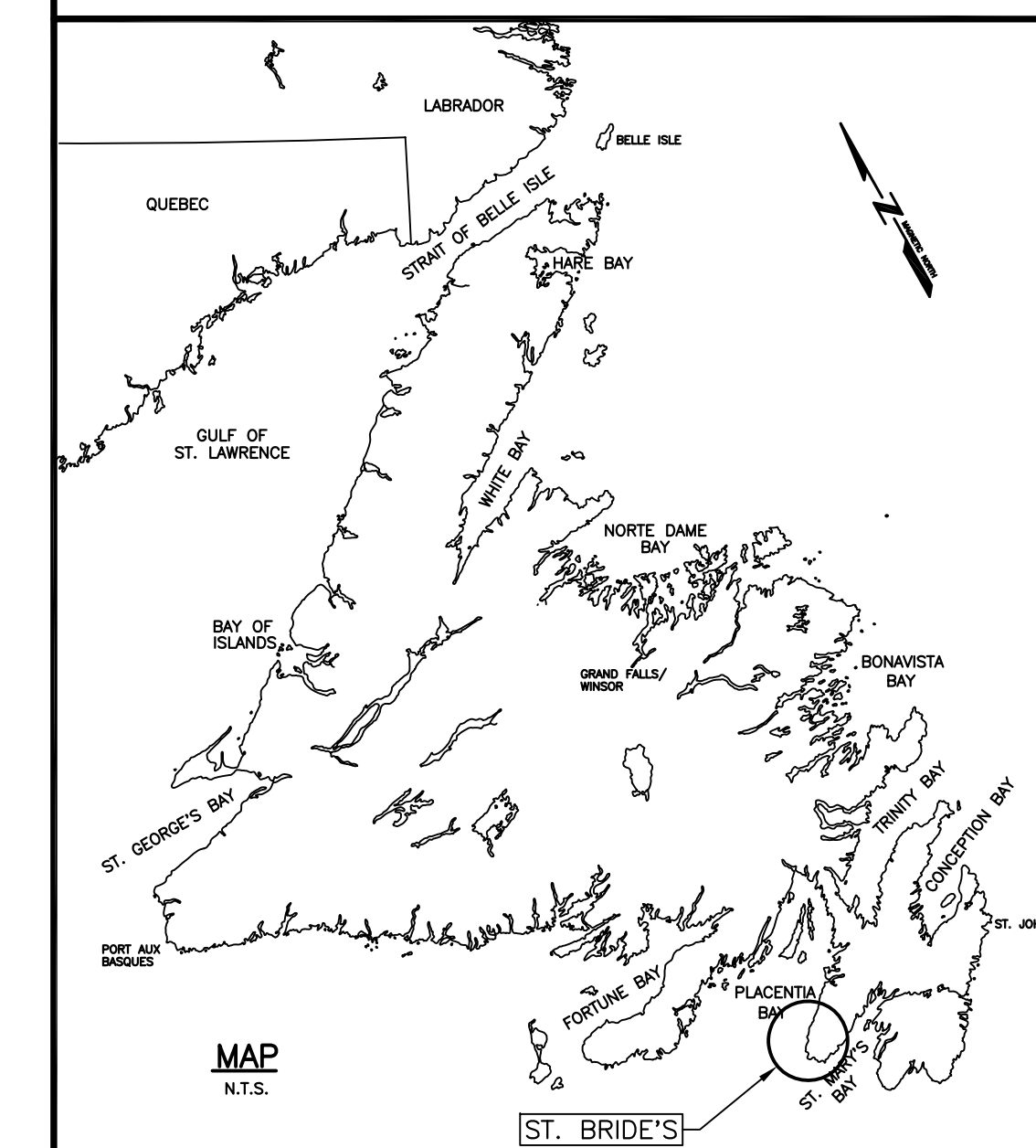


FISHERIES AND OCEANS
CANADA

SHORELINE PROTECTION
ST. BRIDE'S
NEWFOUNDLAND AND LABRADOR

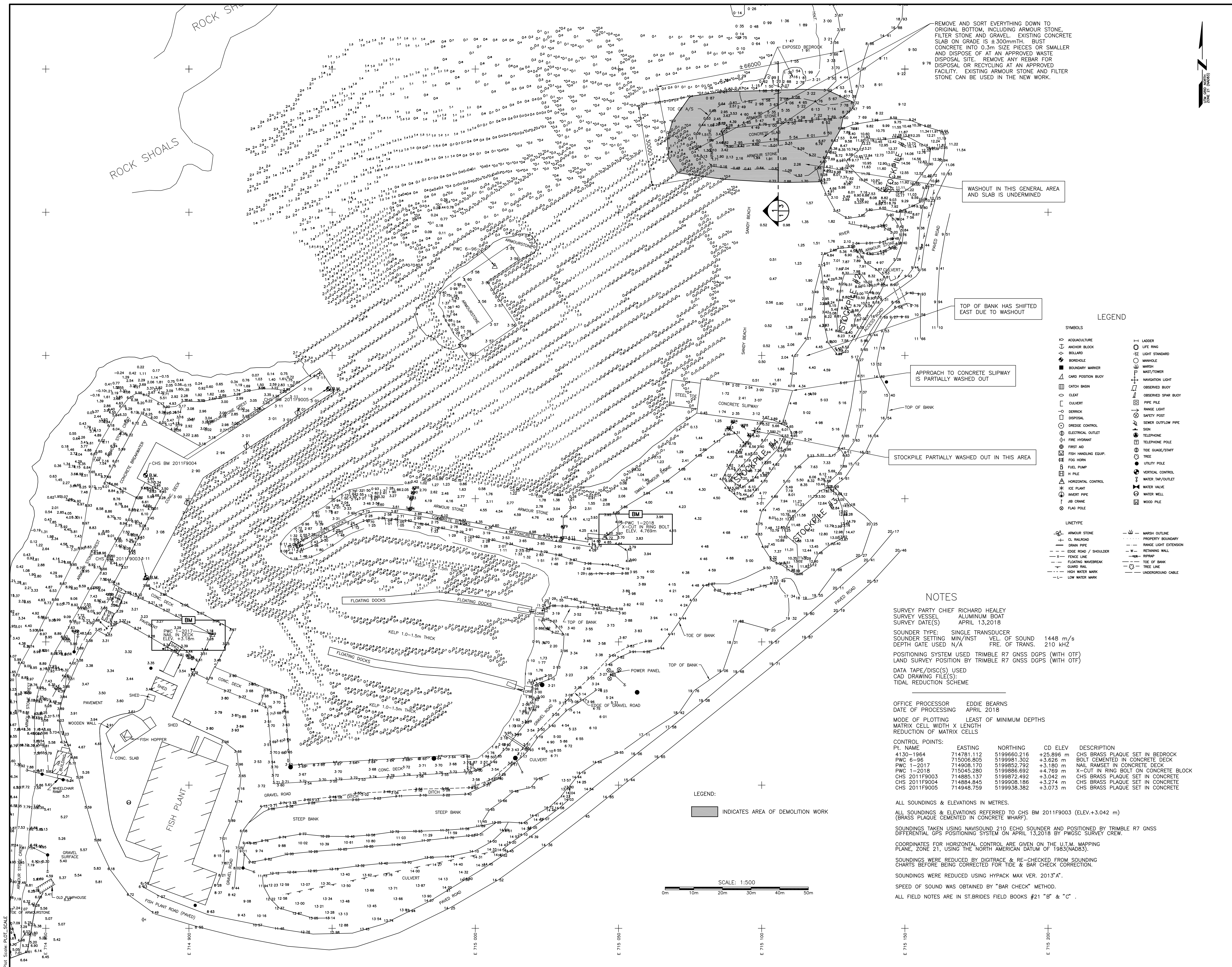
PROJECT No. C2-00473
ISSUED FOR TENDER

SMALL CRAFT HARBOURS



LIST OF DRAWINGS:

- C1 OF 4 SOUNDING AND TOPOGRAPHIC SURVEY
- C2 OF 4 NEW SITE PLAN
- C3 OF 4 SECTIONS
- C4 OF 4 SECTIONS



NOTES:

1. ALL ELEVATIONS ARE IN METRES UNLESS OTHERWISE NOTED.
2. ALL DIMENSIONS ARE IN MILLIMETRES UNLESS OTHERWISE NOTED.

PROVINCE OF NEWFOUNDLAND
PERMIT HOLDER
This Permit Allows
APN ENGINEERING INC.

To practice Professional Engineering in Newfoundland and Labrador: 2011/0005
Permit No. as issued by APBNL F0282
which is valid for the year 2022

REGISTERED PROFESSIONAL ENGINEER
NEIL C. HUNT
4/19/2022
NEWFOUNDLAND & LABRADOR

SYMBOLS	SYMBOLS
ACQUACULTURE	LINDER
ANCHOR BLOCK	LIFE RING
BOLLARD	LIGHT STANDARD
BORERHOLE	MANHOLE
BOUNDARY MARKER	MARSH
CARD POSITION BUOY	MAST/TOWER
CATCH BASIN	NAVIGATION LIGHT
CLEAT	OBSERVED BUOY
CONCRETE	PIPE PILE
CULVERT	RANGE LIGHT
DAM	SAFETY LIGHT
DISPOSAL	SEWER OUTFLOW PIPE
ELECTRICAL OUTLET	SIGN
FIRE HYDRANT	TELEPHONE POLE
FIRST AID	TIDE GAUGE/STAFF
FISH HANDLING EQUIP.	TREE
FUEL PUMP	UTILITY POLE
H PILE	VERTICAL CONTROL
HORIZONTAL CONTROL	WATER DAP/DOCKET
ICE PLANT	WATER WALL
INLET PIPE	WATER WELL
J BOX	WOOD PILE
FLAG POLE	

REVISIONS	DATE
B	ISSUED FOR TENDER 4/19/22
A	ISSUED FOR REVIEW 2/14/22

project: **SHORELINE PROTECTION ST. BRIDE'S, NL**

drawing: **C2-00473**

designed: N.H. concu

date: APRIL 19, 2022

drawn: P.H. dessine

date: APRIL 19, 2022

approved: [Signature] approve

Tender: [Signature] Soumission

project number: **C2-00473**

drawing no.: **C1**

SOUNDING AND TOPOGRAPHIC SURVEY

designed: N.H. concu

date: APRIL 19, 2022

drawn: P.H. dessine

date: APRIL 19, 2022

approved: [Signature] approve

Tender: [Signature] Soumission

project number: **C2-00473**

drawing no.: **C1**

NOTES

SURVEY PARTY CHIEF RICHARD HEALEY
SURVEY VESSEL ALUMINUM BOAT
SURVEY DATE(S) APRIL 13, 2018

SOUNDER TYPE: SINGLE TRANSDUCER
SOUNDER SETTING MIN/INST VEL. OF SOUND 1448 m/s
DEPTH GATE USED N/A

POSITIONING SYSTEM USED TRIMBLE R7 GNSS DGPS (WITH OTF)
LAND SURVEY POSITION BY TRIMBLE R7 GNSS DGPS (WITH OTF)

DATA TAPE/DISC(S) USED
CAD DRAWING FILE(S):
TIDAL REDUCTION SCHEME

OFFICE PROCESSOR EDDIE BEARNS
DATE OF PROCESSING APRIL 2018

MODE OF PLOTTING LEAST OF MINIMUM DEPTHS
MATRIX CELL WIDTH X LENGTH
REDUCTION OF MATRIX CELLS

CONTROL POINTS:

PL. NAME	EASTING	NORTHING	CD ELEV	DESCRIPTION
4130-1964	714781.112	5199660.218	+25.896 m	CHS BRASS PLAQUE SET IN BEDROCK
PWC 6-96	715006.805	519981.302	+3.626 m	BOLT CEMENTED IN CONCRETE DECK
PWC 1-2017	714908.170	519852.792	+3.180 m	NAIL RAMSET IN CONCRETE DECK
PWC 1-2018	715045.280	519886.692	+4.769 m	X-CUT IN RING BOLT ON CONCRETE BLOCK
CHS 2011F9003	714885.137	519887.492	+3.042 m	CHS BRASS PLAQUE SET IN CONCRETE
CHS 2011F9004	714884.845	519890.186	+3.274 m	CHS BRASS PLAQUE SET IN CONCRETE
CHS 2011F9005	714948.759	519938.382	+3.073 m	CHS BRASS PLAQUE SET IN CONCRETE

ALL SOUNDINGS & ELEVATIONS IN METRES.

ALL SOUNDINGS & ELEVATIONS REFERRED TO CHS BM 2011F9003 (ELEV.+3.042 m)
(BRASS PLAQUE CEMENTED IN CONCRETE WHARF).

SOUNDINGS TAKEN USING NAVISOUND 210 ECHO SOUNDER AND POSITIONED BY TRIMBLE R7 GNSS
DIFFERENTIAL GPS POSITIONING SYSTEM ON APRIL 13, 2018 BY PWGSC SURVEY CREW.

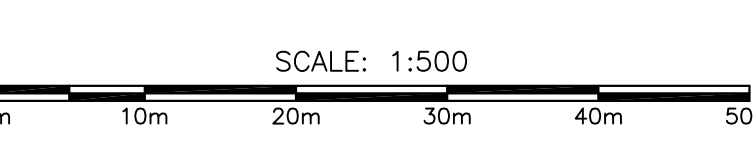
COORDINATES FOR HORIZONTAL CONTROL ARE GIVEN ON THE U.T.M. MAPPING
PLANE, ZONE 21, USING THE NORTH AMERICAN DATUM OF 1983(NAD83).

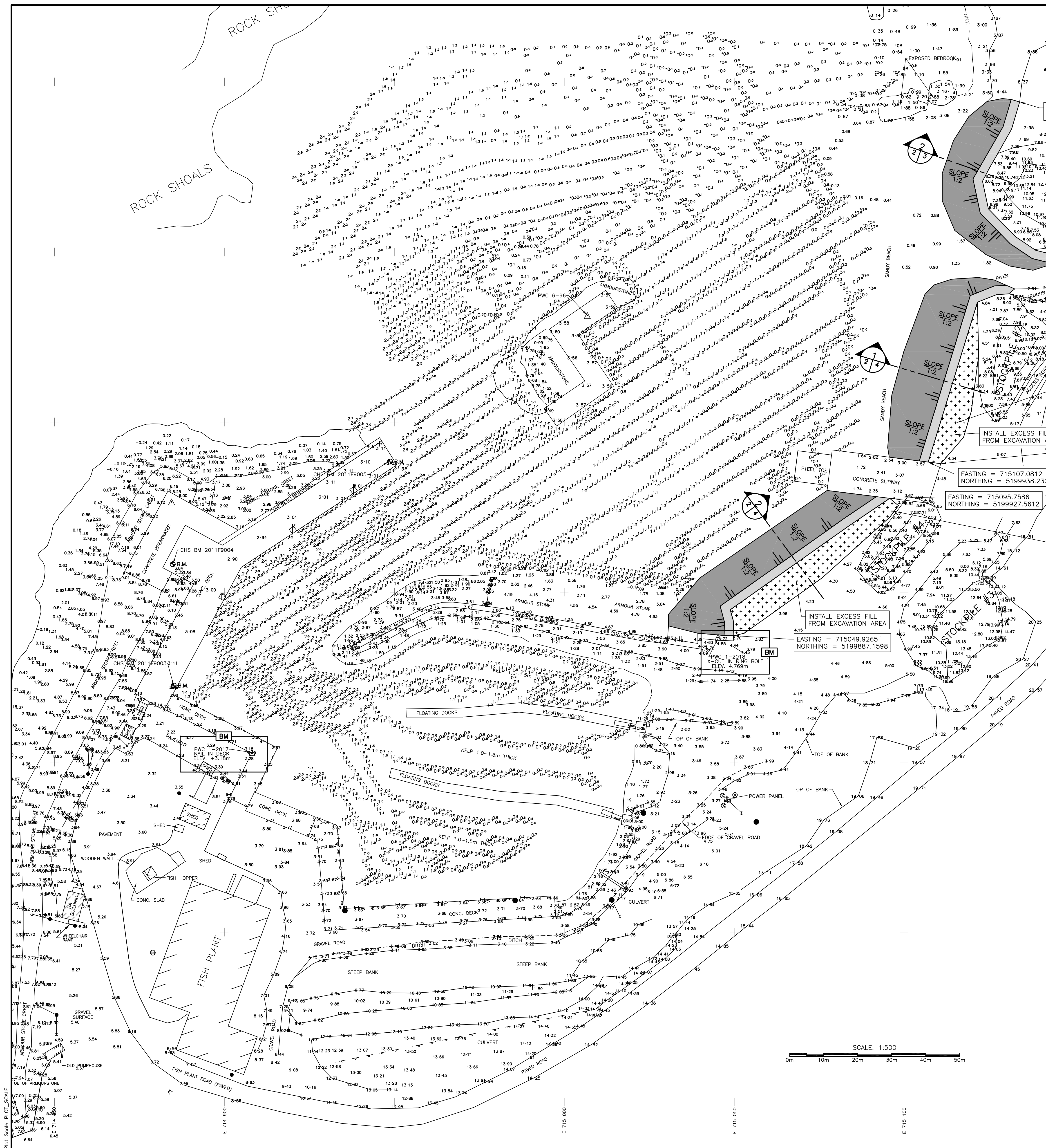
SOUNDINGS WERE REDUCED BY DIGITRACE & RE-CHECKED FROM SOUNDING
CHARTS BEFORE BEING CORRECTED FOR TIDE & BAR CHECK CORRECTION.

SOUNDINGS WERE REDUCED USING HYPACK MAX VER. 2013*A.

SPEED OF SOUND WAS OBTAINED BY "BAR CHECK" METHOD.

ALL FIELD NOTES ARE IN ST.BRIDES FIELD BOOKS #21 "B" & "C".





NOTE:
 1. ALL EXCAVATED MATERIAL TO BE USED ON SITE. NO REQUIREMENT TO DISPOSE OF EXISTING ROCK AND GRAVEL FILL OFF SITE. CONTRACTOR RESPONSIBLE TO MAKE OWN ASSESSMENT OF QUANTITY OF ROCK AND GRAVEL FILL REQUIRED TO COMPLETE WORK AS SHOWN (ADDITIONAL ROCK AND GRAVEL FILL COSTS, IF REQUIRED, TO BE CARRIED IN THE LUMP SUM ARRANGEMENT).

LEGEND:
 [Symbol] INDICATES NEW ARMOUR STONE SIDE SLOPES
 [Symbol] INDICATES NEW ARMOUR STONE CREST

LEGEND

SYMBOLS

- ACQUACULTURE
- ANCHOR BLOCK
- BOLLARD
- BOREHOLE
- BOUNDARY MARKER
- CARD POSITION BUOY
- CATCH BASIN
- CLEAT
- CUVERT
- DEMURK
- DISPOSAL
- DROPSIDE CONTROL
- ELECTRICAL OUTLET
- FIRE HYDRANT
- FIRST AID
- FISH HANDLING EQUIP.
- FOG HORN
- FUEL PUMP
- H FILE
- HORIZONTAL CONTROL
- ICE PLANT
- INLET PIPE
- JOB CAME
- FLAG POLE
- LADDER
- LIFE RING
- LIGHT STANDARD
- MANHOLE
- MARSH
- MAST/TOWER
- NAVIGATION LIGHT
- OBSERVED BUOY
- OBSERVED SPAR BUOY
- PIPE PILE
- RANGE LIGHT
- SAFETY POST
- SEWER OUTFLOW PIPE
- SIGN
- TELEPHONE POLE
- TIDE GAUGE/STAFF
- TREE
- UTILITY POLE
- VERTICAL CONTROL
- WATER DAY/DOCKET
- WATER WELLS
- WOOD PILE

LINE TYPE

- ARMOUR STONE
- CL RAILROAD
- PROPERTY BOUNDARY
- RANGE LIGHT EXTENSION
- RAIN PIPE
- RETAINING WALL
- FENCE LINE / SHOULDER
- FLOTTING WATERBREAK
- FLUTING WATERBREAK
- TOE OF BANK
- TREE LINE
- HIGH WATER MARK
- LOW WATER MARK
- MARSH OUTLINE
- PROPERTY BOUNDARY
- RANGE LIGHT EXTENSION
- RETAINING WALL
- FENCE LINE / SHOULDER
- FLOTTING WATERBREAK
- FLUTING WATERBREAK
- TOE OF BANK
- TREE LINE
- HIGH WATER MARK
- LOW WATER MARK

NOTES

SURVEY PARTY CHIEF RICHARD HEALEY
 SURVEY VESSEL ALUMINUM BOAT
 SURVEY DATE(S) APRIL 13, 2018

SOUNDER TYPE: SINGLE TRANSDUCER
 SOUNDER SETTING: MIN/INST VEL. OF SOUND 1448 m/s
 DEPTH GATE USED: N/A FREQ. OF TRANS. 210 KHZ

POSITIONING SYSTEM USED: TRIMBLE R7 GNSS DGPS (WITH OTF)
 LAND SURVEY POSITION BY TRIMBLE R7 GNSS DGPS (WITH OTF)

DATA TAPE/DISC(S) USED:
 CAD DRAWING FILE(S):
 TIDAL REDUCTION SCHEME

OFFICE PROCESSOR: EDDIE BEARNS
 DATE OF PROCESSING: APRIL 2018

MODE OF PLOTTING: LEAST OF MINIMUM DEPTHS
 MATRIX CELL WIDTH X LENGTH: 10.00 X 10.00
 REDUCTION OF MATRIX CELLS

CONTROL POINTS:

PL. NAME	EASTING	NORTHING	CD ELEV	DESCRIPTION
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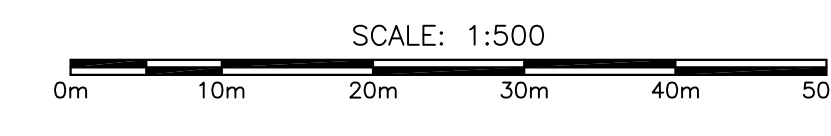
COORDINATES FOR HORIZONTAL CONTROL ARE GIVEN ON THE U.T.M. MAPPING PLANE, ZONE 21, USING THE NORTH AMERICAN DATUM OF 1983(NAD83).

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ALL FIELD NOTES ARE IN ST.BRIDES FIELD BOOKS #21 "B" & "C".



Fisheries and Oceans Canada / **Pêches et Océans Canada**

SMALL CRAFT HARBOURS

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PROVINCE OF NEWFOUNDLAND PERMIT HOLDER
 This Permit Allows
APN ENGINEERING INC.
 To practice Professional Engineering in Newfoundland and Labrador. *see ULO*
 Permit No. as issued by APBNL F0282 which is valid for the year 2022.

REGISTERED PROFESSIONAL ENGINEER
NEIL C. HUNT
 4/19/2022
 NEWFOUNDLAND & LABRADOR

B	ISSUED FOR TENDER	4/19/22
A	ISSUED FOR REVIEW	2/14/22
revisions		date
project		project

SHORELINE PROTECTION
ST. BRIDE'S, NL

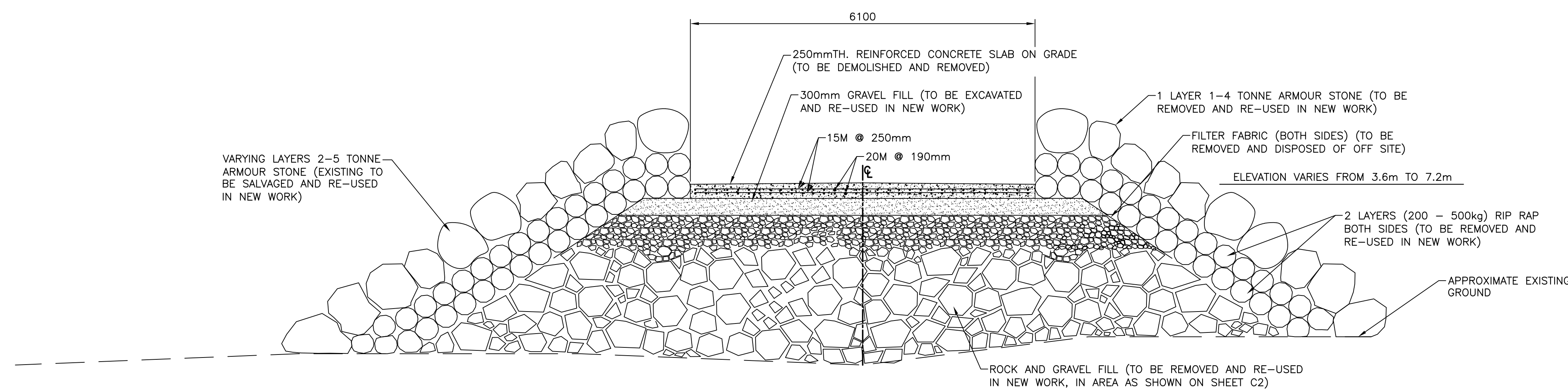
NEW SITE PLAN

designed N.H. concu
 date APRIL 19, 2022
 drawn P.H. dessine
 date APRIL 19, 2022
 approved
 Tender Paul Curran Soumission
 DFO Project Manager
 project number no. du projet
C2-00473
 drawing no. no. du dessin
C2

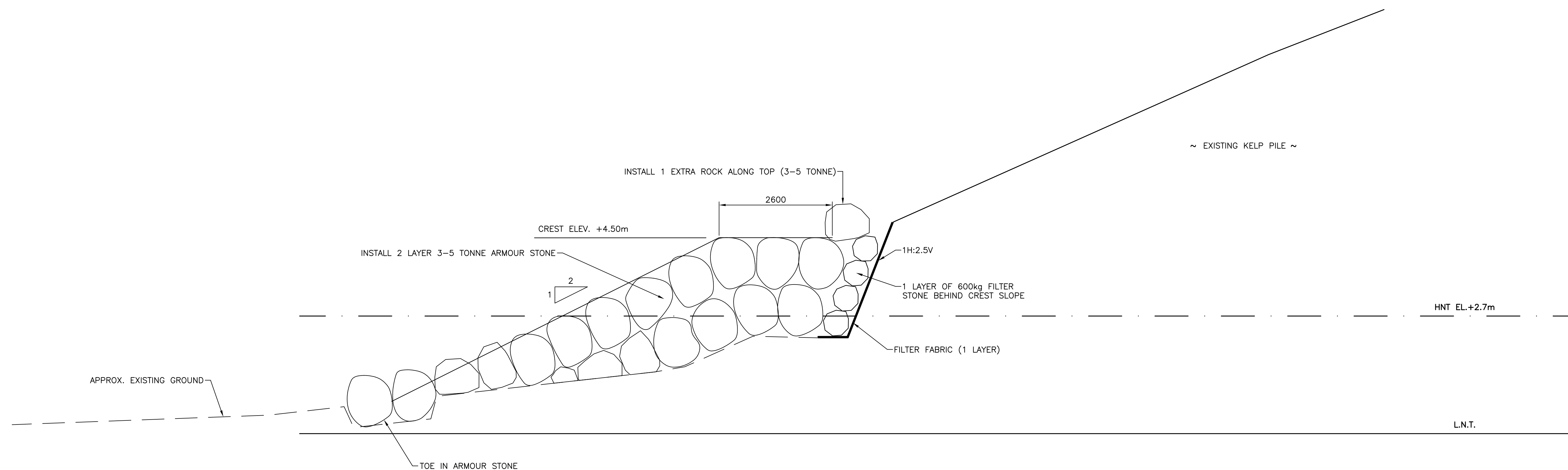
SMALL CRAFT HARBOURS



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SECTION - EXISTING TO BE REMOVED 1
 SCALE : 1:50
 0m 1m 2m 3m 4m 5m



SECTION - NEW 2
 SCALE : 1:50
 0m 1m 2m 3m 4m 5m

PROVINCE OF NEWFOUNDLAND
 PERMIT HOLDER
 This Permit Allows
 APN ENGINEERING INC.
 To practice Professional Engineering
 in Newfoundland and Labrador. *Neil C. Hunt*
 Permit No. as issued by APBNL F0282
 which is valid for the year 2022.

REGISTERED PROFESSIONAL ENGINEER
 NEIL C. HUNT
 SIGNATURE
 4/19/22
 DATE
 NEWFOUNDLAND & LABRADOR

B	ISSUED FOR TENDER	4/19/22
A	ISSUED FOR REVIEW	2/14/22
revisions		date

project SHORELINE PROTECTION
 project ST. BRIDE'S, NL

drawing dessein
 drawing no. C3

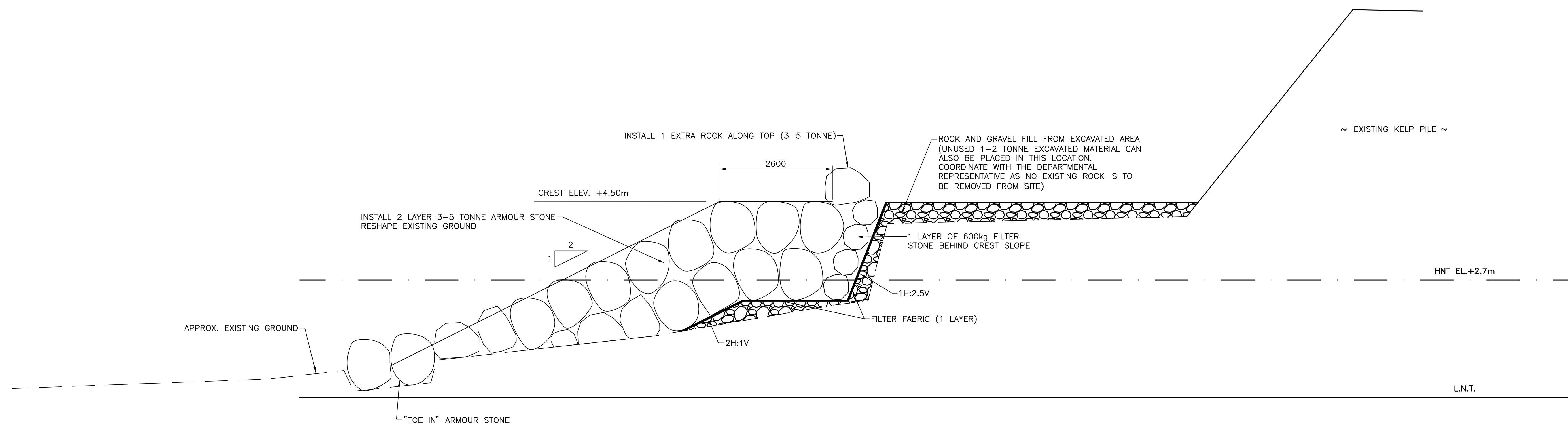
designed N.H.	conçu
date APRIL 19, 2022	
drawn P.H.	dessiné
date APRIL 19, 2022	
approved	approuvé

Tender Paul Curran Submission
 DFO Project Manager
 project number C2-00473
 drawing no. C3

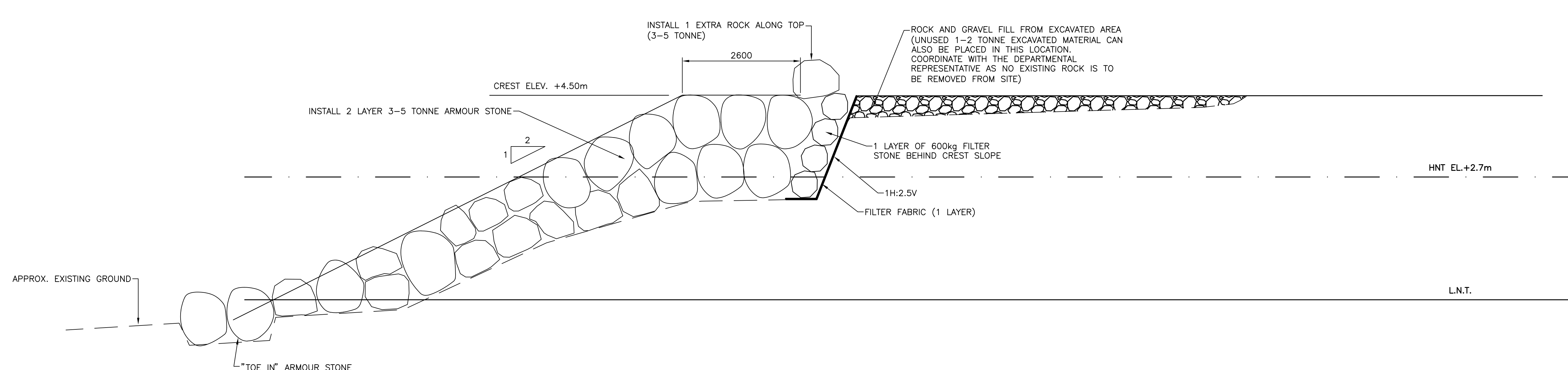
SMALL CRAFT HARBOURS



- NOTES:
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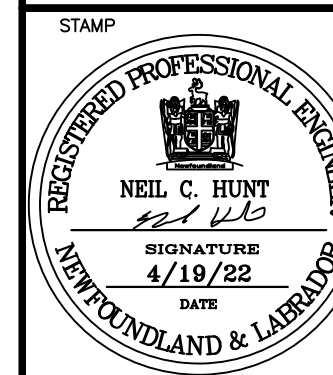


SECTION - NEW
SCALE : 1:50



SECTION - NEW
SCALE : 1:50

PROVINCE OF NEWFOUNDLAND
PERMIT HOLDER
This Permit Allows
AFN ENGINEERING INC.
To practice Professional Engineering
in Newfoundland and Labrador: *Neil C. Hunt*
Permit No. as issued by APBNL: *FO282*
which is valid for the year 2022.



B	ISSUED FOR TENDER	4/19/22
A	ISSUED FOR REVIEW	2/14/22
revisions		date

project SHORELINE PROTECTION
ST. BRIDE'S, NL

drawing desin
SECTIONS

designed N.H.	concu
date APRIL 19, 2022	
drawn P.H.	desine
date APRIL 19, 2022	
approved	approve

Tender *Paul Curran* Soumission
DFO Project Manager
project number C2-00473 no. du projet
drawing no. C4 no. du dessin