

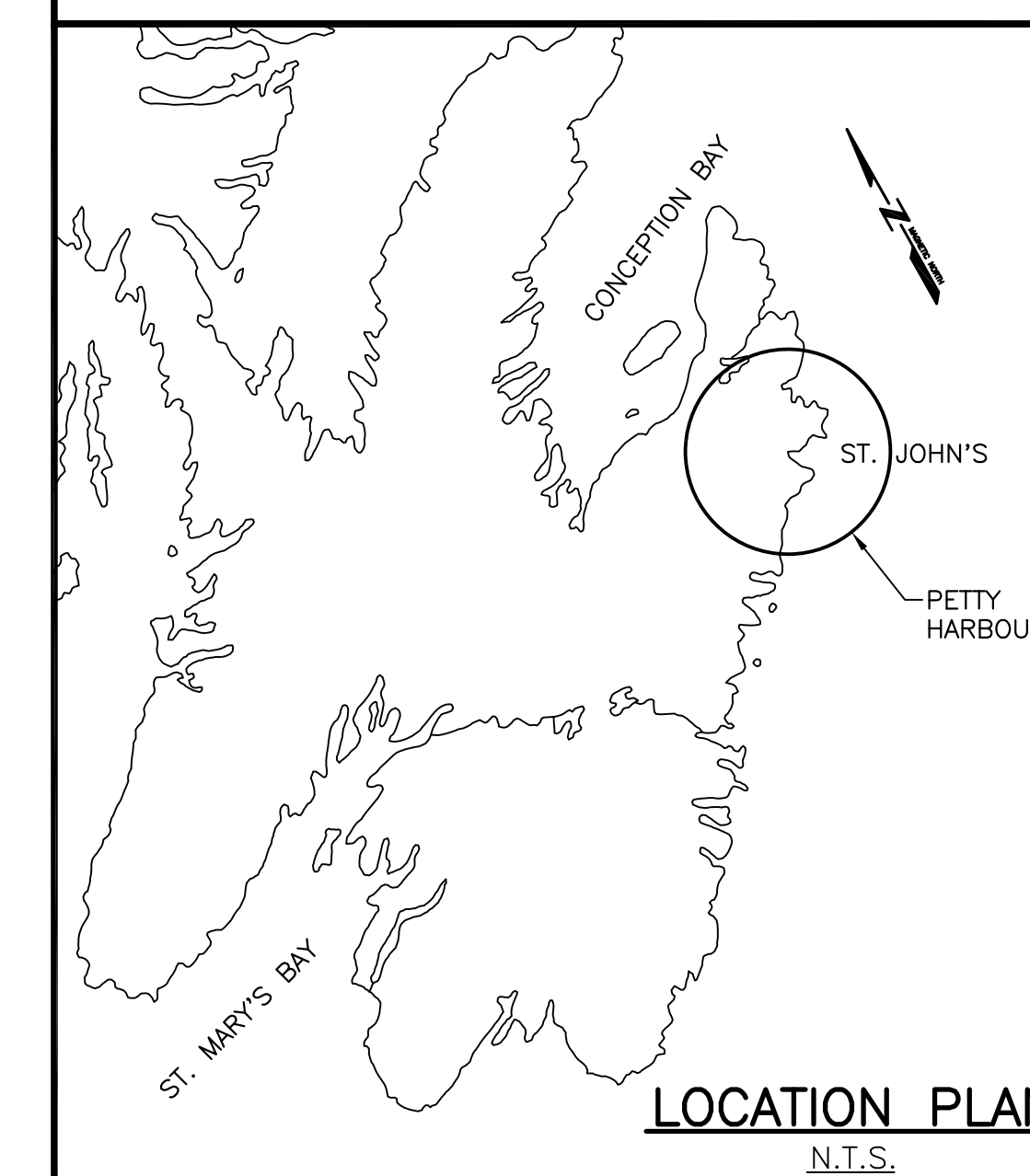
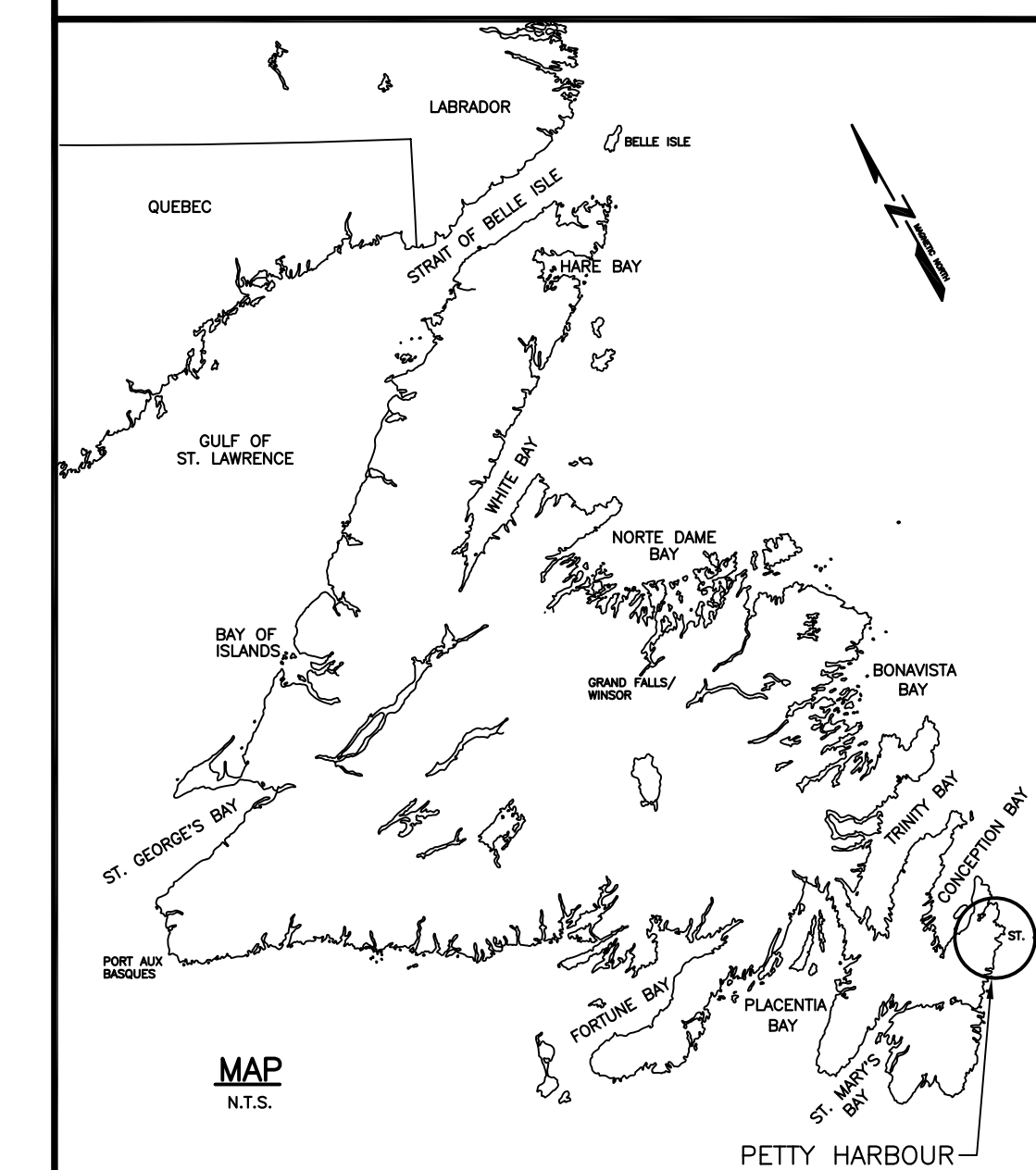


FISHERIES AND OCEANS  
CANADA

# HARBOUR IMPROVEMENTS PETTY HARBOUR NEWFOUNDLAND AND LABRADOR

PROJECT No. 720714  
ISSUED FOR TENDER

SMALL CRAFT HARBOURS



## LIST OF DRAWINGS:

- C1 OF 6 GENERAL LOCATION PLAN
- C2 OF 6 DEMOLITION PLAN
- C3 OF 6 NEW SITE PLAN
- C4 OF 6 NEW WHARF PLAN AND LAYOUT
- C5 OF 6 NEW WHARF ELEVATIONS
- C6 OF 6 NEW WHARF SECTIONS AND DETAILS

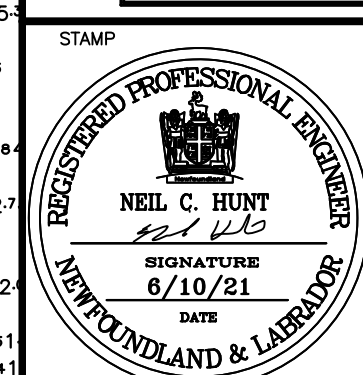


SMALL CRAFT HARBOURS



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. Permit No. as issued by APGNL F0292 which is valid for the year 2021.



B ISSUED FOR TENDER 6/10/21

A ISSUED FOR REVIEW 2/17/20

revisions date date

project project

HARBOUR IMPROVEMENTS  
 PETTY HARBOUR, NL

GENERAL LOCATION PLAN

designed N.H. concu

date JUNE 10, 2021 date

drawn P.H. desine

date JUNE 10, 2021 date

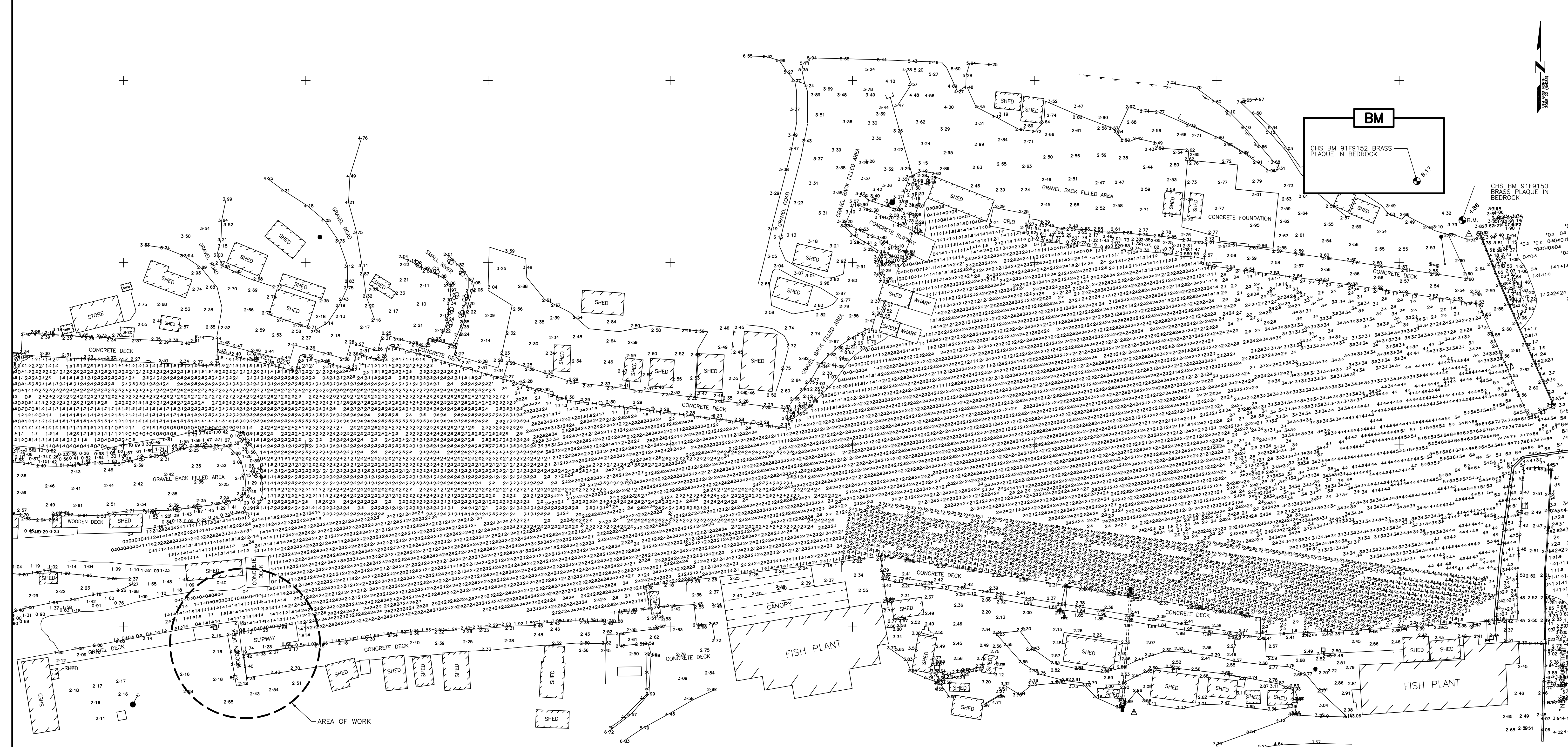
approved approve

Tender Paul Curran Soumission

DFD Project Manager

project number 720714 no. du projet

drawing no. C1 OF 6 no. du dessin



SURVEY NOTES

SURVEY PARTY CHIEF RICHARD HEALEY  
 SURVEY VESSEL ALUMINUM BOAT  
 SURVEY DATE(S) BETWEEN JUNE 01,2010 & SEPTEMBER 22,2015

SAUNDER TYPE SINGLE TRANSDUCER  
 SAUNDER SETTING MIN/INST VEL OF SOUND 1520 m/s  
 DEPTH GATE USED N/A FRE. OF TRANS. 210 KHZ

POSITIONING SYSTEM USED DGPS (WITH OTF)  
 LAND SURVEY POSITION BY DGPS (WITH OTF)  
 DATA TYPE/DEVICE USED  
 CAD DRAWING FILE(S)

TIDAL REDUCTION SCHEME REAL TIME DGPS (WITH OTF)

OFFICE PROCESSOR EDDIE BEARNS  
 DATE OF PROCESSING SEPTEMBER 2015

MODE OF PLOTTING LEAST OF MINIMUM DEPTHS  
 MATRIX CELL WIDTH X LENGTH 1.0 x 1.0  
 REDUCTION OF MATRIX CELLS

CONTROL POINTS:	EASTING	NORTHING	CD ELEV	DESCRIPTION
025803	372572.766	5258920.675		PROVINCIAL BRASS PLAQUE IN BEDROCK
026599	370810.165	5258579.702		PROVINCIAL BRASS PLAQUE IN BEDROCK
PWC 'A'	371510.063	5258141.342	+2.423 m	SPIKE IN DECK
PWC 1-1989	371522.277	5258188.074	+2.592 m	SPIKE IN DECK
PWC 2-1989	371446.795	5258108.059	+2.720 m	X-OUT IN BOLT OF MOORING CLEAT
PWC 5-1989	371195.825	5258174.240	+2.462 m	BOLT IN CONC. DECK
PWC 8-1989	371293.818	5258108.619	+2.546 m	BOLT IN CONC. DECK
MON. 3	371584.283	5258139.181	+4.575 m	BOLT CEMENTED IN BEDROCK
BM 91F9150	371517.343	5258211.659	+4.857 m	CHS PLAQUE SET IN BEDROCK

ALL SOUNDINGS & ELEVATIONS IN METRES.  
 ALL SOUNDINGS & ELEVATIONS REFERRED TO CHS BM 91F9150 ELEV. +4.857 m (BRASS PLAQUE SET IN BEDROCK NEAR THE NORTHERN END OF THE NORTH BREAKWATER.)

SOUNDINGS TAKEN USING NAVSOUND 210 ECHO SAUNDER AND POSITIONED BY TIMBLE DIFFERENTIAL GPS POSITIONING SYSTEM BETWEEN APRIL 20,2005 & SEPT. 22,2015 BY PWGSC SURVEY CREW.

COORDINATES FOR HORIZONTAL CONTROL ARE GIVEN ON THE U.T.M. MAPPING PLANE, ZONE 22, 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.

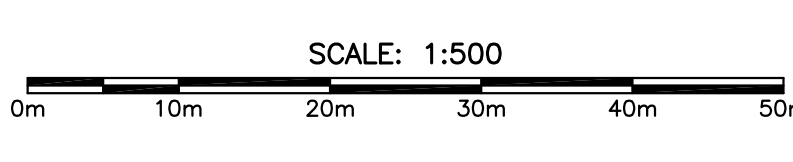
SOUNDINGS WERE REDUCED USING HYPACK MAX VER. 2013"A".

ALL FIELD NOTES ARE PETTY HARBOUR BOOKS 93A & 93B.

LEGEND

- SYMBOLS**
- AQUACULTURE
  - ⊕ ANCHOR BLOCK
  - BOLLARD
  - BOREHOLE
  - ◆ BOUNDARY MARKER
  - △ CARD POSITION BUOY
  - ▭ CATCH BASIN
  - CLEAT
  - CULVERT
  - DERROCK
  - DISPOSAL
  - DREDGE CONTROL
  - ELECTRICAL OUTLET
  - FIRE HYDRANT
  - FIRST AID
  - FISH HANDLING EQUIP.
  - FOG HORN
  - FUEL PUMP
  - H PILE
  - HORIZONTAL CONTROL
  - ICE PLANT
  - INVERT PIPE
  - JIB CRANE
  - FLAG POLE
  - ⊥ LADDER
  - LIFE RING
  - ⊥ LIGHT STANDARD
  - MANHOLE
  - MARSH
  - MAST/TOWER
  - NAVIGATION LIGHT
  - OBSERVED BUOY
  - OBSERVED SPUR BUOY
  - PIPE PILE
  - RANGE LIGHT
  - SAFETY POST
  - SEWER OUTFLOW PIPE
  - SIGN
  - TELEPHONE
  - TELEPHONE POLE
  - TIDE GAUGE/STAFF
  - TREE
  - UTILITY POLE
  - VERTICAL CONTROL
  - WATER TAP/OUTLET
  - WATER VALVE
  - WATER WELL
  - WOOD PILE

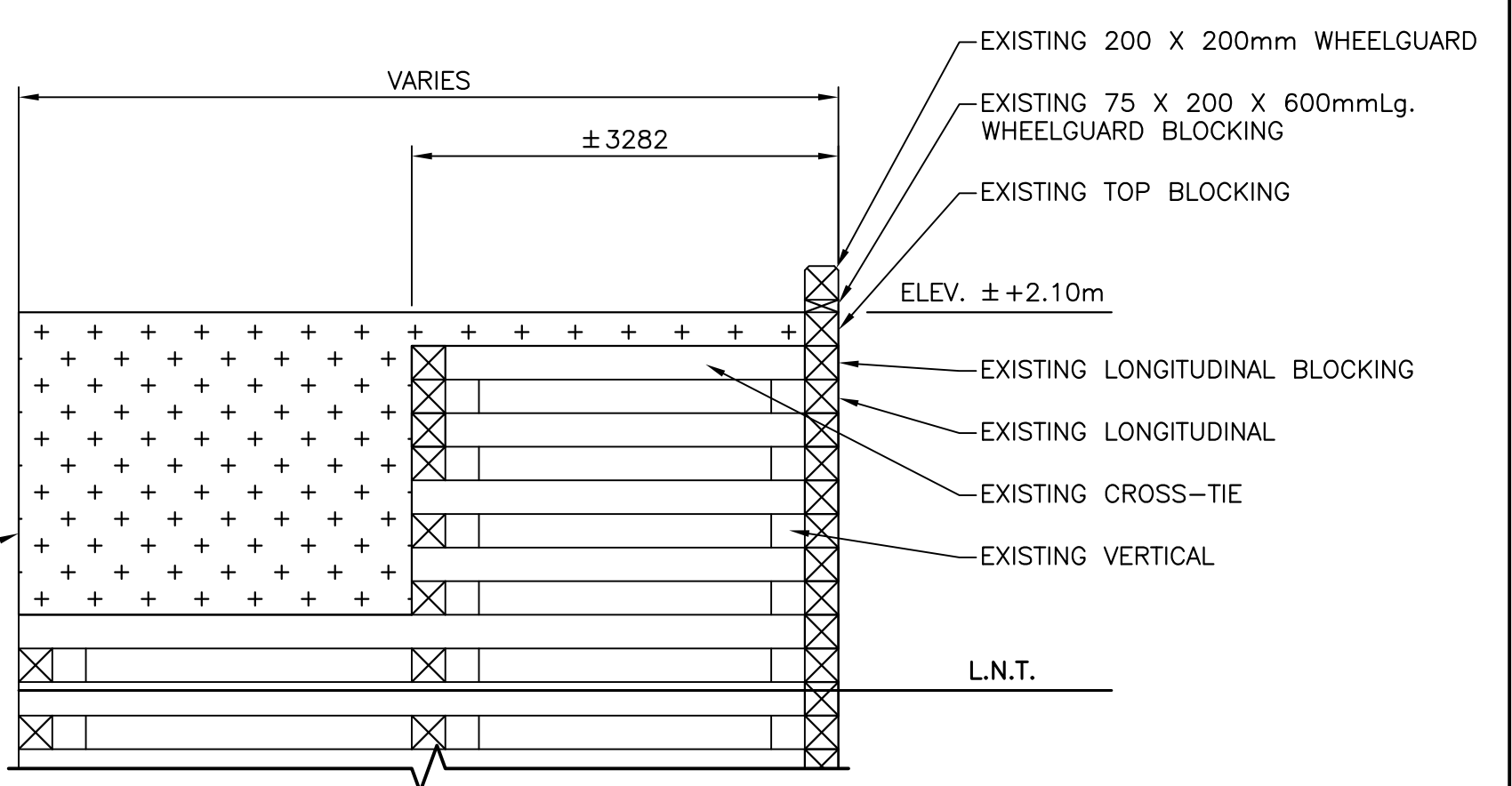
- LINE TYPE**
- ARMOUR STONE
  - CL RAILROAD
  - DRAIN PIPE
  - EDGE ROAD / SHOULDER
  - FENCING
  - FLOATING WAVEREAK
  - GUARD RAIL
  - HIGH WATER MARK
  - LOW WATER MARK
  - MARSH OUTLINE
  - PROPERTY BOUNDARY
  - RANGE LIGHT EXTENSION
  - RETAINING WALL
  - RIPRAP
  - TIDE OF BANK
  - TREE LINE
  - UNDERGROUND CABLE



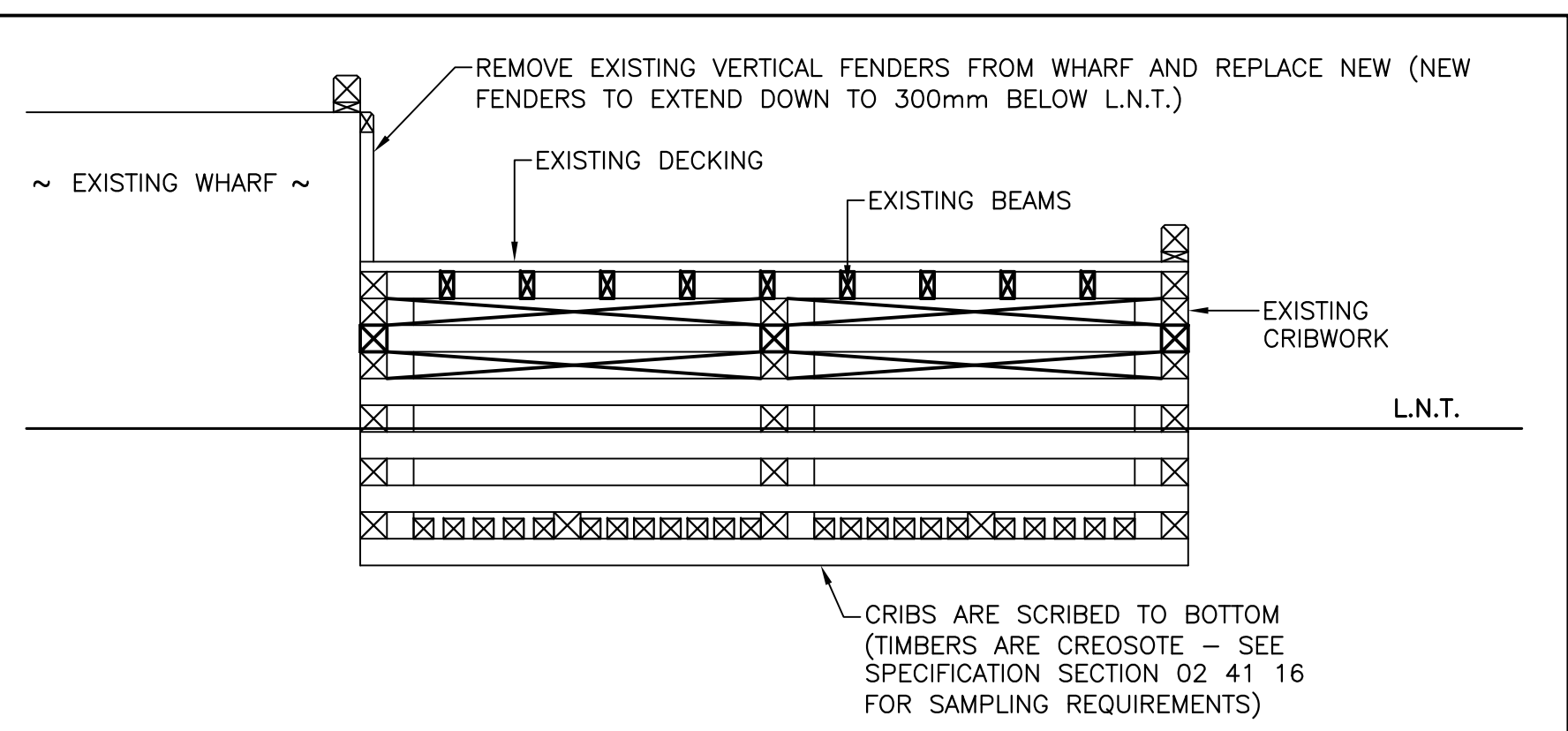
Plot Scale: PLOT SCALE



- NOTES:**
- VISIT SITE PRIOR TO TENDER CLOSE TO CONFIRM ALL CRITICAL DIMENSIONS. EXISTING CONDITIONS MAY VARY FROM THAT SHOWN.
  - FENDERS NOT SHOWN. ALL TIMBER IS CREOSOTE. DISPOSE OF AT THE ROBIN HOOD BAY REGIONAL WASTE DISPOSAL FACILITY. SEE SPECIFICATION SECTION 02 41 16 FOR SAMPLING REQUIREMENTS. CRIB SEAT ELEVATIONS ARE UNKNOWN BUT ARE NOT EXPECTED TO BE GREATER THAN 2m BELOW L.N.T.
  - SUBMIT UNDERWATER DIVING VIDEO CONFIRMING THAT ALL WHARF AND SLIPWAY INFRASTRUCTURE HAS BEEN REMOVED TO THE APPROVAL OF THE DEPARTMENTAL REPRESENTATIVE.



**SECTION - WHARF TO BE REMOVED (1/2)**  
SCALE: N.T.S.



**SECTION - SLIPWAY TO BE REMOVED (2/2)**  
SCALE: N.T.S.

**SURVEY NOTES**

**SURVEY PARTY CHIEF:** RICHARD HEALEY  
**SURVEY VESSEL:** ALUMINUM BOAT  
**SURVEY DATE(S):** BETWEEN JUNE 01, 2010 & SEPTEMBER 22, 2015  
**SOUNDER TYPE:** SINGLE TRANSDUCER  
**SOUNDER SETTING:** MIN/INST. WEL OF SOUND 1520 m/s  
**DEPTH GATE USED:** N/A  
**FRE. OF TRANS.:** 210 KHZ  
**POSITIONING SYSTEM USED:** DGPS (WITH OTF)  
**LAND SURVEY POSITION BY:** DGPS (WITH OTF)  
**DATA TAPE/DISC(S) USED:**  
**CAD DRAWING FILE(S):**  
**TIDAL REDUCTION SCHEME:** REAL TIME DGPS (WITH OTF)

**OFFICE PROCESSOR:** EDDIE BEARNS  
**DATE OF PROCESSING:** SEPTEMBER 2015

**MODE OF PLOTTING:** EAST OF MINIMUM DEPTHS  
**MATRIX CELL WIDTH X LENGTH:** 1.0 x 1.0  
**REDUCTION OF MATRIX CELLS:**

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ALL SOUNDINGS & ELEVATIONS IN METRES.

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SOUNDINGS WERE REDUCED USING HYPACK MAX VER. 2013.4".

ALL FIELD NOTES ARE PETTY HARBOUR BOOKS 93A & 93B.

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

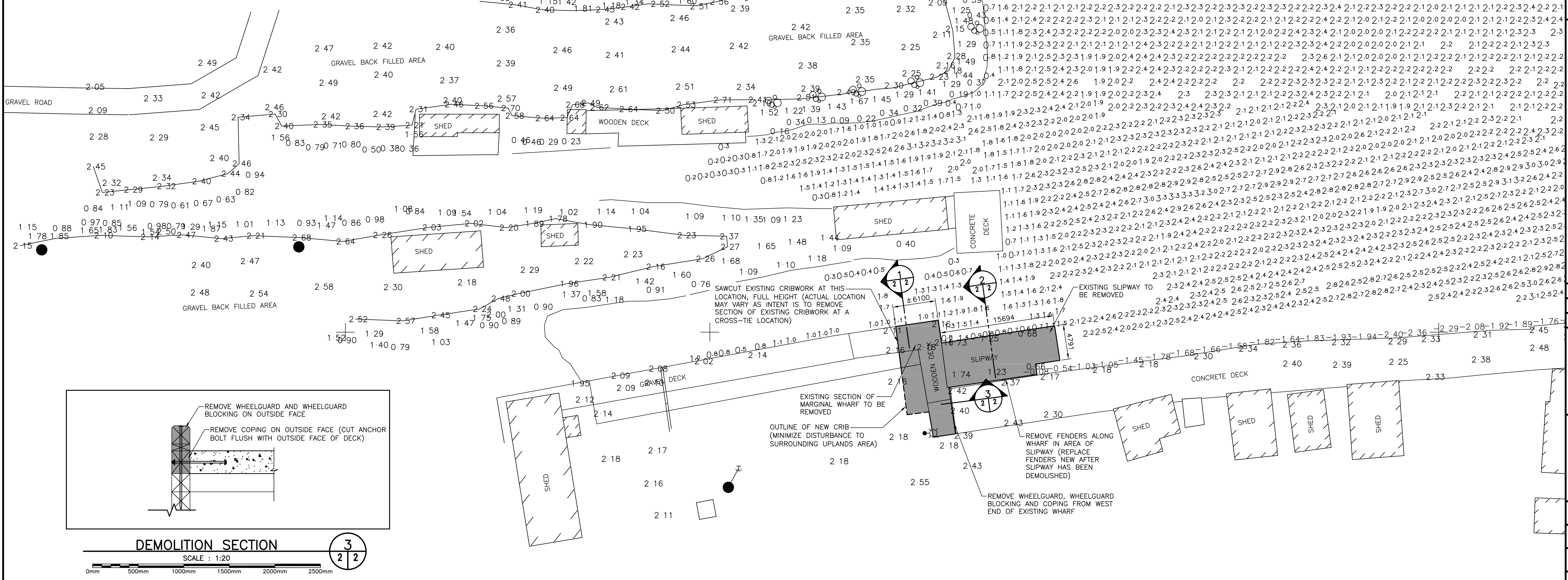
**SMALL CRAFT HARBOURS**

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

To practice Professional Engineering in Newfoundland and Labrador: *see 11/10*  
 Permit No. as issued by APBNL: *FD282*  
 which is valid for the year: *2021*

**REGISTERED PROFESSIONAL ENGINEER**  
**NEIL C. HUNT**  
 09/10/21  
 NEWFOUNDLAND & LABRADOR



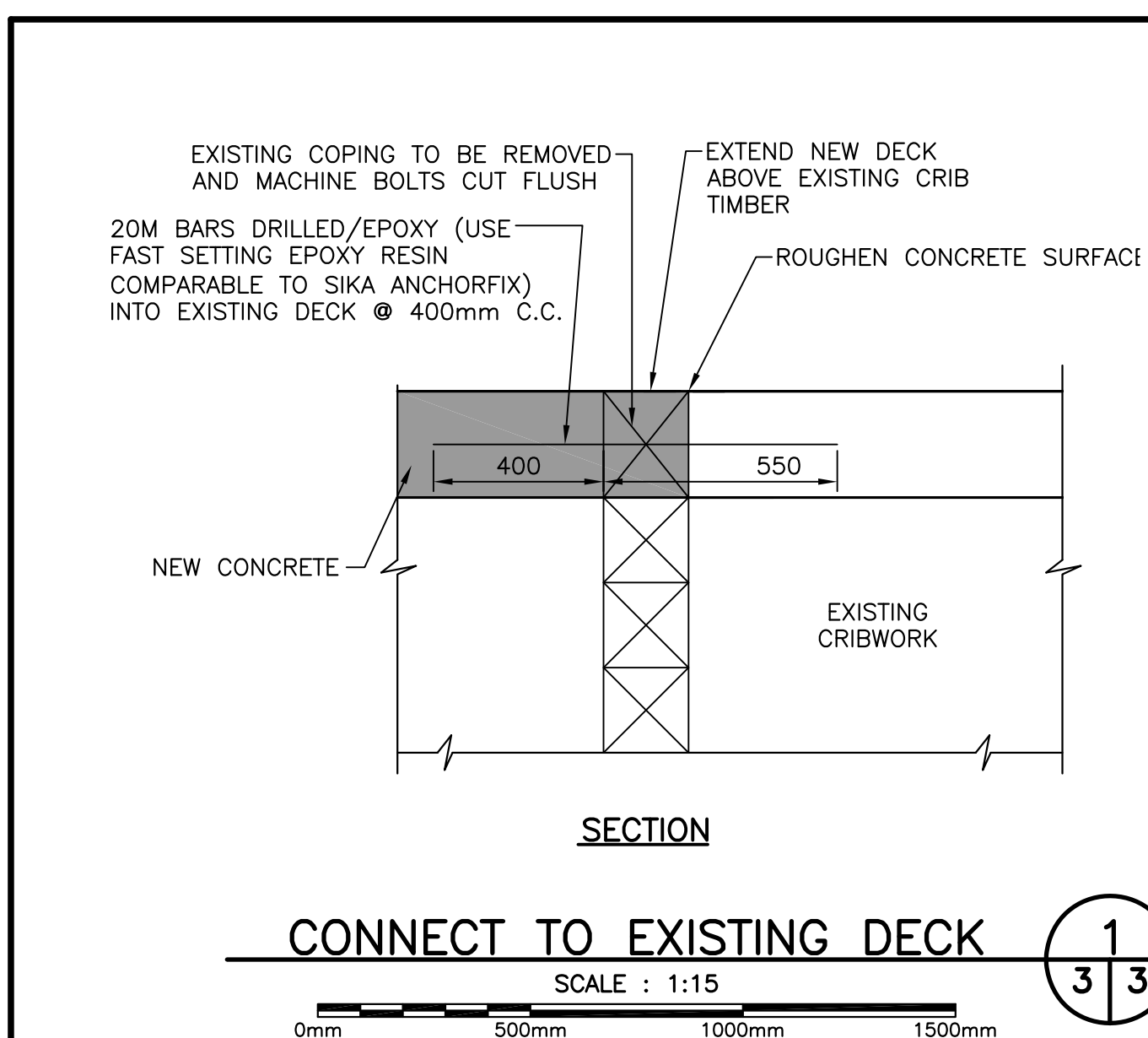
**DEMOLITION PLAN**  
SCALE: 1:20

SCALE: 1:250

**LEGEND:**  
 AREA OF DEMOLITION

B	ISSUED FOR TENDER	6/10/21
A	ISSUED FOR REVIEW	2/17/20
revisions	date	
project	project	
<b>HARBOUR IMPROVEMENTS</b>		
<b>PETTY HARBOUR, NL</b>		
drawing	dessin	
<b>DEMOLITION PLAN</b>		
designed N.H.	concu	
date	JUNE 10, 2021	
drawn P.H.	dessine	
date	JUNE 10, 2021	
approved	approuve	
Tender Paul Curran	Soumission	
DFO Project Manager		
project number	no. du projet	720714
drawing no.	no. du dessin	C2 OF 6





**SURVEY NOTES**

**SURVEY PARTY CHIEF:** RICHARD HEALEY  
**SURVEY VESSEL:** ALUMINUM BOAT  
**SURVEY DATE(S):** BETWEEN JUNE 01, 2010 & SEPTEMBER 22, 2015

**SOUNDER TYPE:** SINGLE TRANSDUCER  
**SOUNDER SETTING:** MING INST. VEL. OF SOUND 1520 m/s  
**DEPTH GATE USED:** N/A  
**FRE. OF TRANS.:** 210 kHz

**POSITIONING SYSTEM USED:** DGPS (WITH OTF)  
**LAND SURVEY POSITION BY:** DGPS (WITH OTF)

**DATA TAPE/DISC(S) USED:**  
**CAD DRAWING FILE(S):**

**TIDAL REDUCTION SCHEME:** REAL TIME DGPS (WITH OTF)

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

**SMALL CRAFT HARBOURS**

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**OFFICE OF PROCESSING:** EDDIE BEARNS, SEPTEMBER 2015

**MODE OF PLOTTING:** EAST OF MINIMUM DEPTHS  
**MATRIX CELL WIDTH X LENGTH:** 1.0 x 1.0  
**REDUCTION OF MATRIX CELLS:**

**CONTROL POINTS:**

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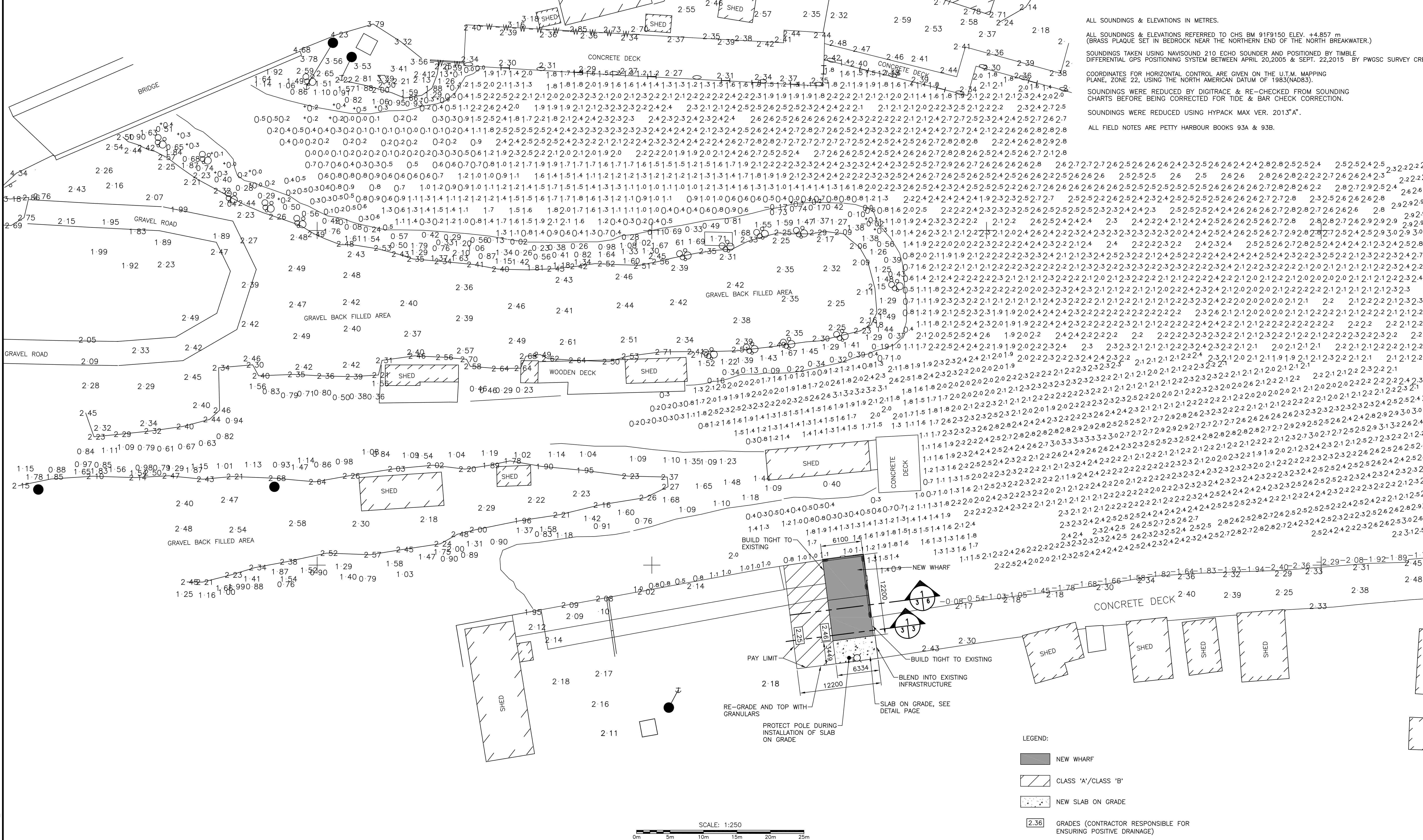
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ALL FIELD NOTES ARE PETTY HARBOUR BOOKS 93A & 93B.



- LEGEND:**
- NEW WHARF
  - CLASS 'A'/CLASS 'B'
  - NEW SLAB ON GRADE
  - GRADES (CONTRACTOR RESPONSIBLE FOR ENSURING POSITIVE DRAINAGE)

**PROVINCE OF NEWFOUNDLAND**

**PERMIT HOLDER:** This Permit Allows  
**APN ENGINEERING INC.**

To practice Professional Engineering in Newfoundland and Labrador: *see 1110*  
 Permit No. as issued by APBNG, F0292, which is valid for the year 2021.

**REGISTERED PROFESSIONAL ENGINEER**

**NEIL C. HUNT**  
 06/10/21  
 NEWFOUNDLAND & LABRADOR

B	ISSUED FOR TENDER	6/10/21
A	ISSUED FOR REVIEW	2/17/20
revisions	date	
project	project	
<b>HARBOUR IMPROVEMENTS</b>		
<b>PETTY HARBOUR, NL</b>		
drawing	design	
<b>NEW SITE PLAN</b>		
designed N.H.	concu	
date	JUNE 10, 2021	
drawn	P.H.	designe
date	JUNE 10, 2021	
approved	approval	
Tender	Submission	
DFD Project Manager		
project number	no. du projet	720714
drawing no.	no. du dessin	C3 OF 6

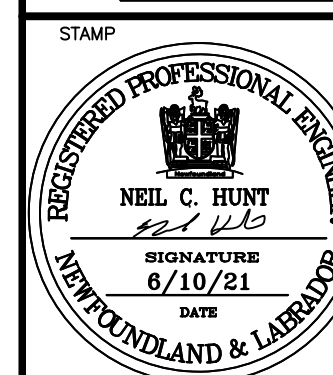


SMALL CRAFT HARBOURS



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 in Newfoundland and Labrador: 501 110  
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revisions		date
project		projct

HARBOUR  
 IMPROVEMENTS  
 PETTY HARBOUR, NL

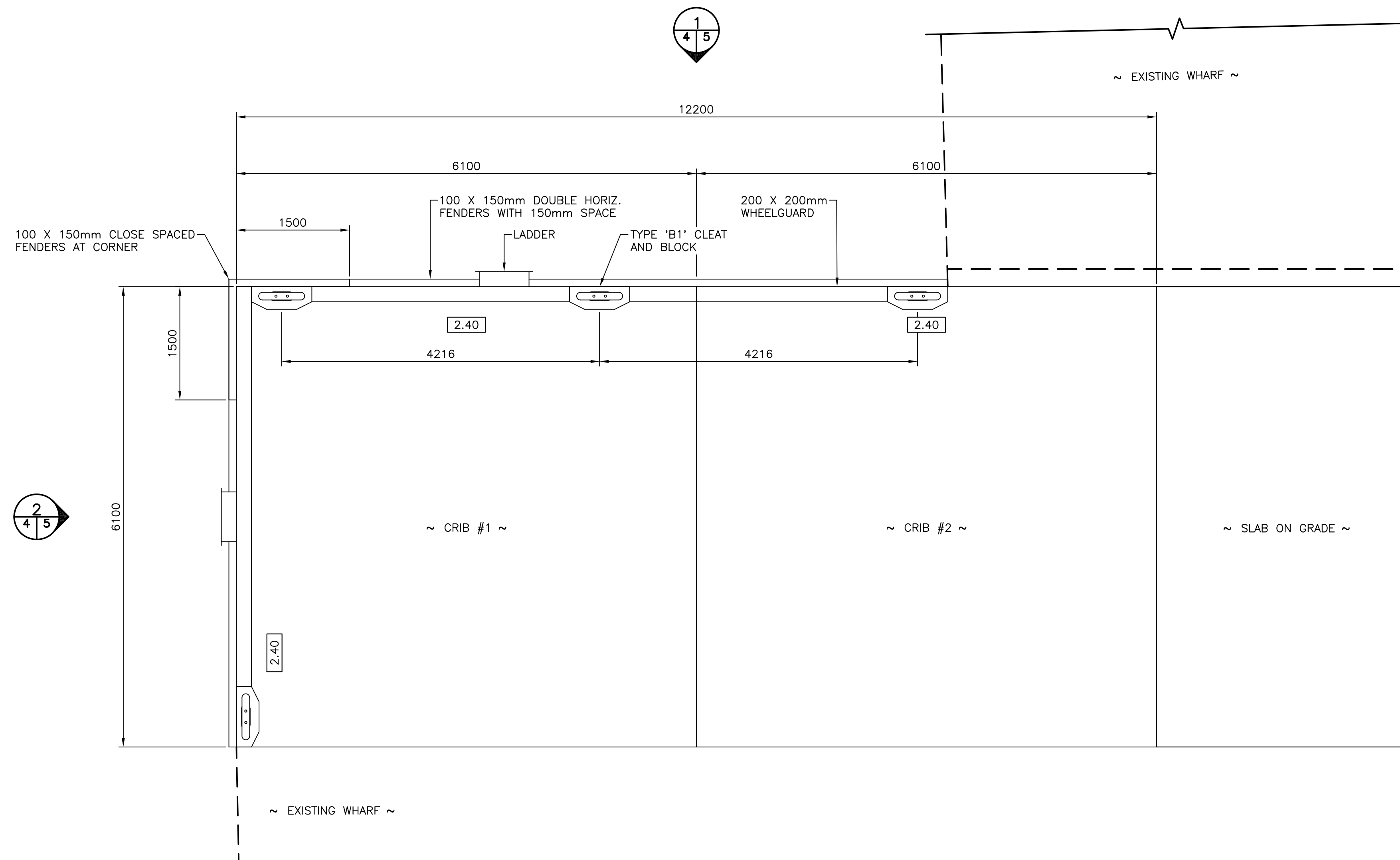
drawing dessin

NEW WHARF PLAN  
 AND LAYOUT

designed N.H. concu  
 date JUNE 10, 2021  
 drawn P.H. dessine  
 date JUNE 10, 2021  
 approved approve

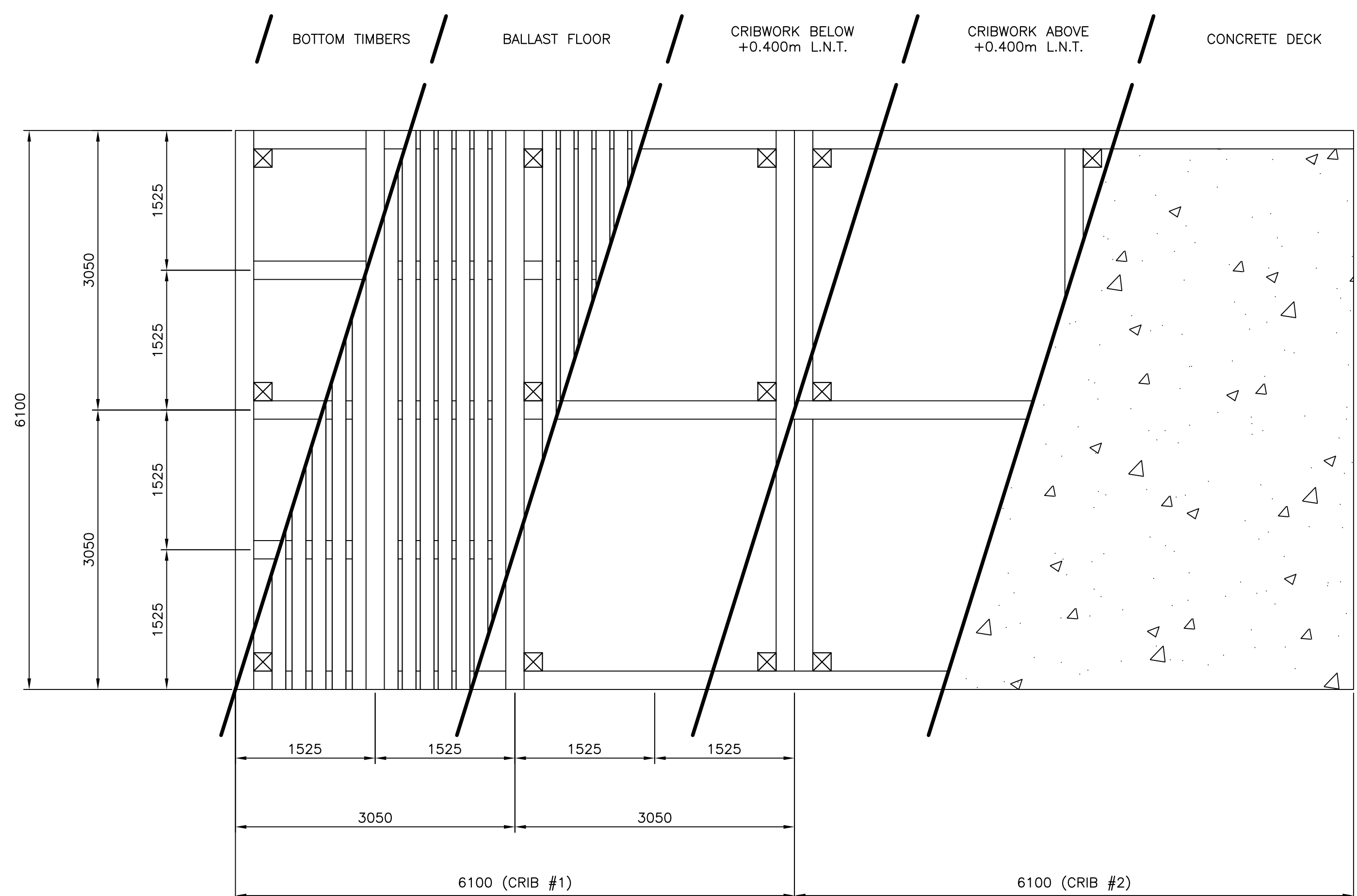
Tender Paul Curran Soumission  
 DFO Project Manager  
 project number 720714 no. du projet

drawing no. C4 OF 6 no. du dessin

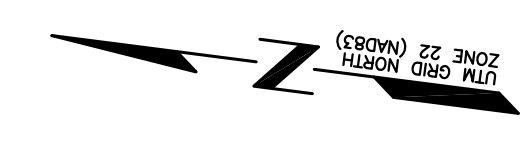
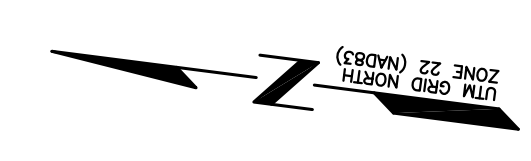


- LEGEND:
- LADDER
  - TYPE 'B1' CLEAT AND BLOCK
  - 2.40 GRADE

MARGINAL WHARF PLAN 1  
 SCALE : 1:40  
 0mm 1mm 2mm 3mm 4mm 5mm



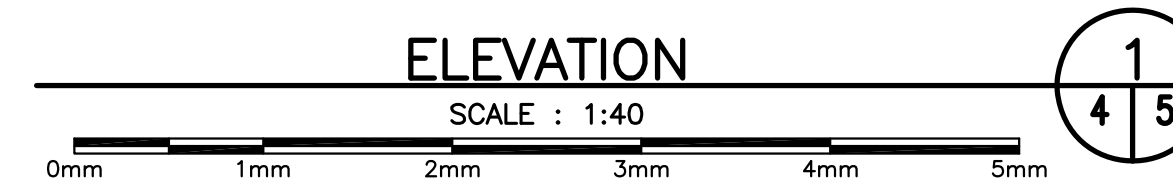
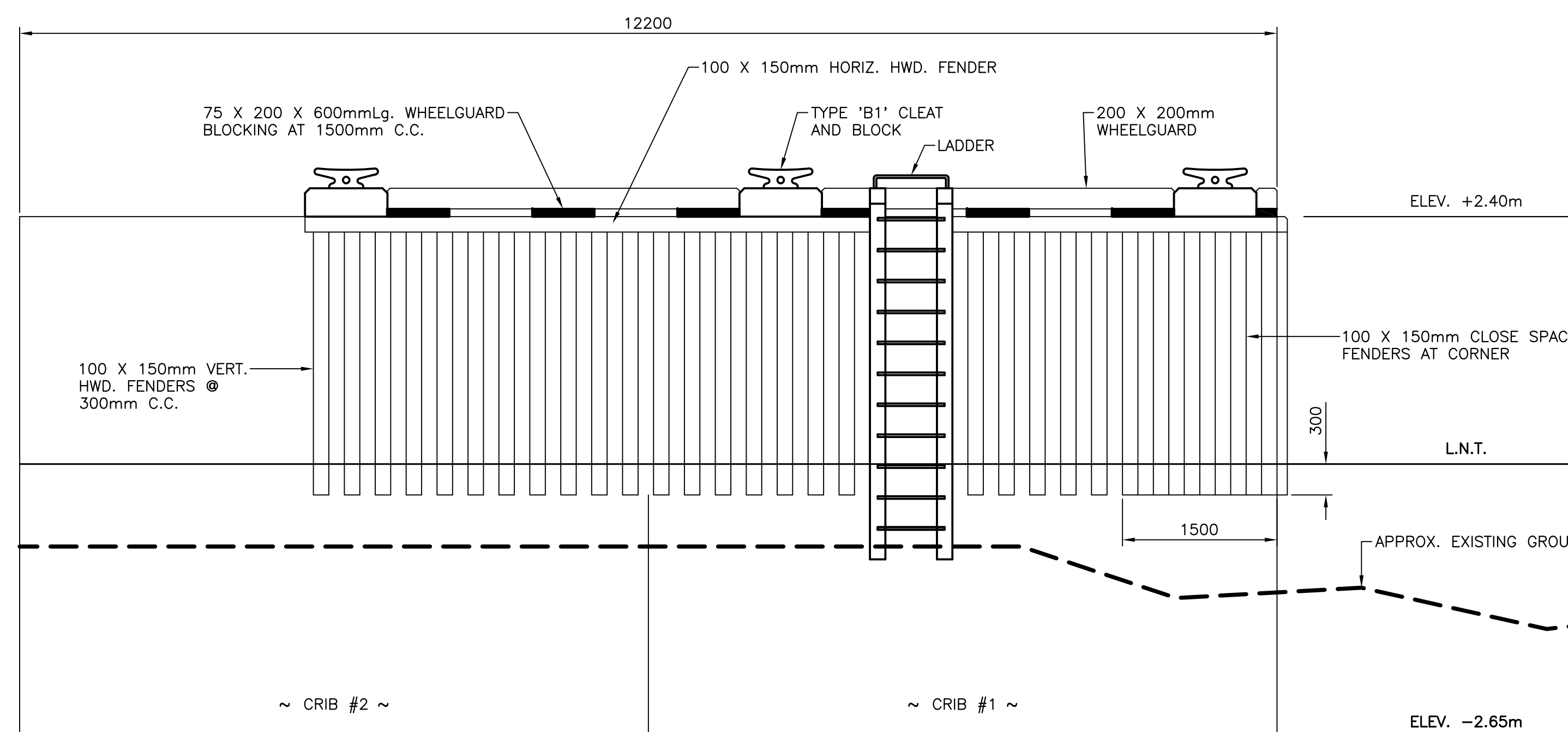
MARGINAL WHARF PLAN 2  
 SCALE : 1:40  
 0mm 1mm 2mm 3mm 4mm 5mm



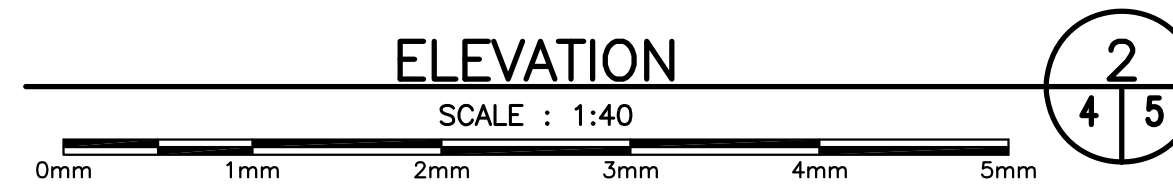
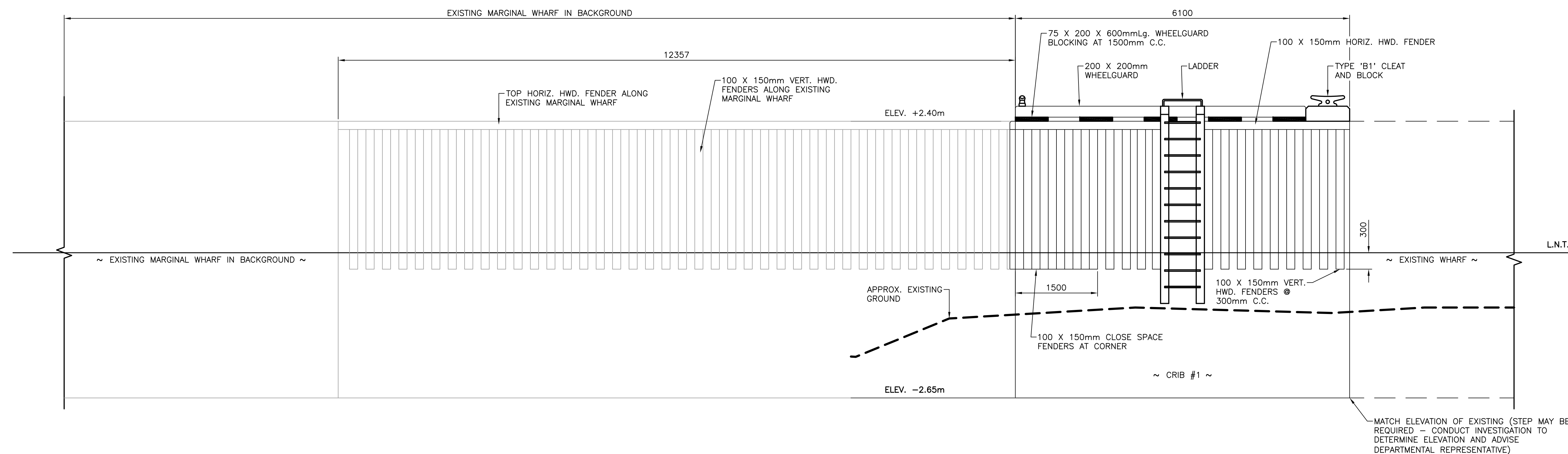
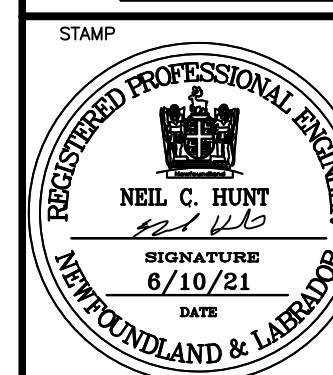
SMALL CRAFT HARBOURS



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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 APEGL, F0282,  
which is valid for the year 2021.



B	ISSUED FOR TENDER	6/10/21
A	ISSUED FOR REVIEW	2/17/20
revisions		date

project

**HARBOUR IMPROVEMENTS**

**PETTY HARBOUR, NL**

project

drawing

**NEW WHARF ELEVATIONS**

dessin

designed N.H.	concu
date JUNE 10, 2021	
drawn P.H.	dessine
date JUNE 10, 2021	
approved	approuvé

Tender *Paul Curran* Submission

DFO Project Manager

project number 720714 no. du projet

drawing no. C5 OF 6 no. du dessin

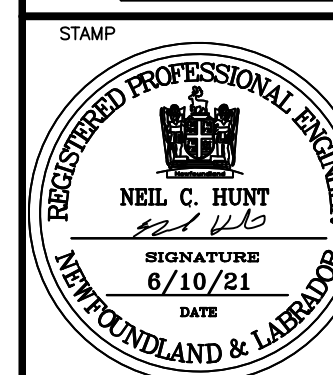


SMALL CRAFT HARBOURS



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project		project

HARBOUR IMPROVEMENTS  
 PETTY HARBOUR, NL

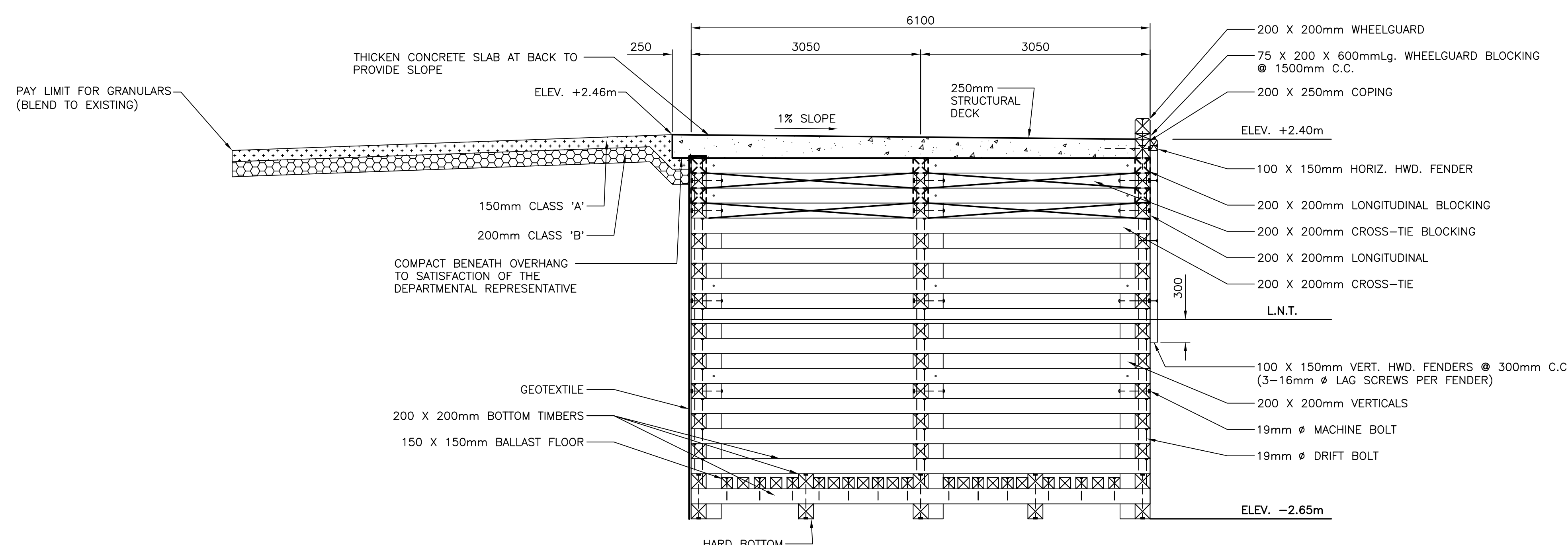
NEW WHARF SECTIONS AND DETAILS

designed N.H.	concu
date JUNE 10, 2021	
drawn P.H.	dessine
date JUNE 10, 2021	
approved	approuvé

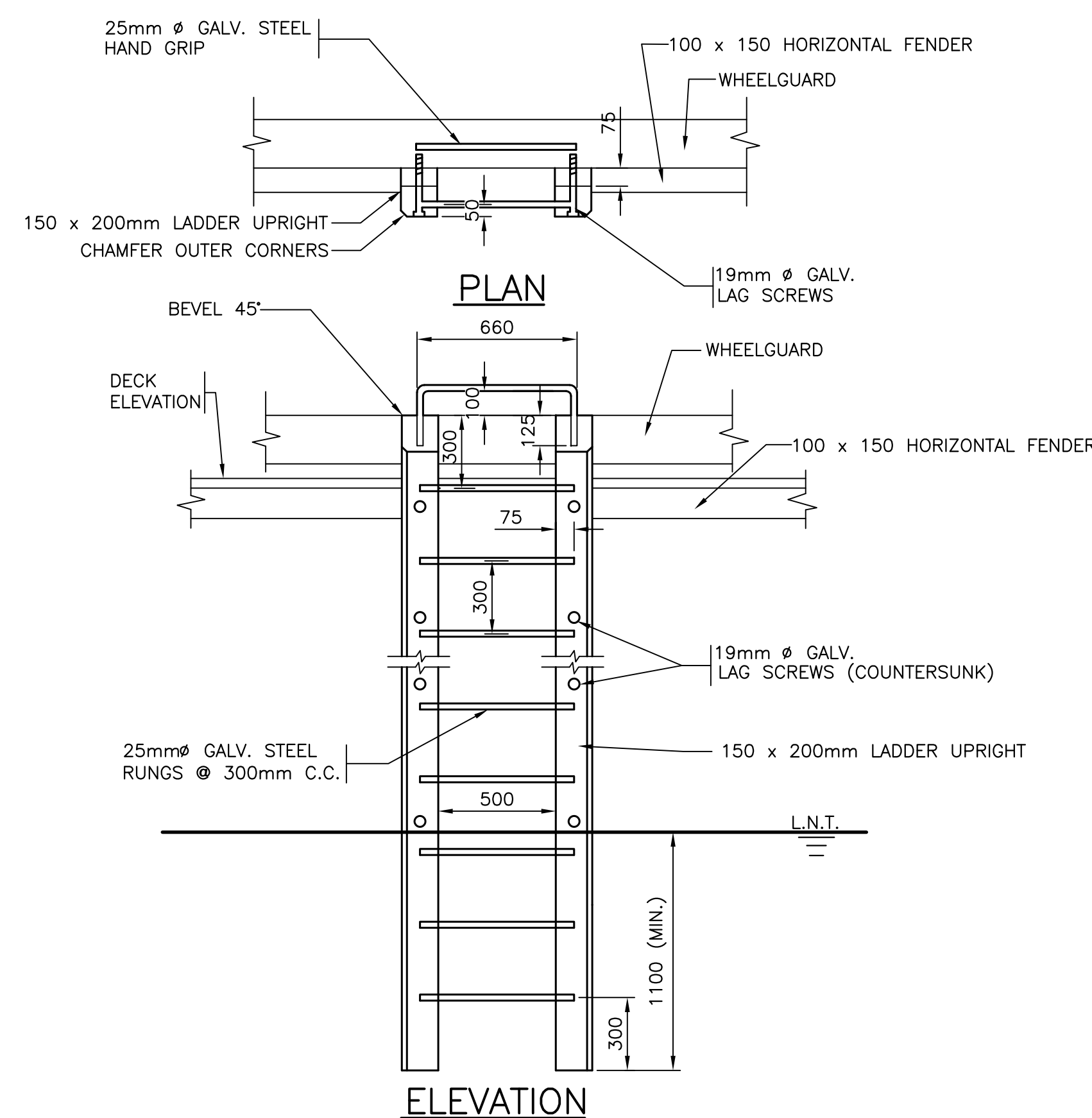
Tender Paul Curran Submission  
 DFO Project Manager

720714

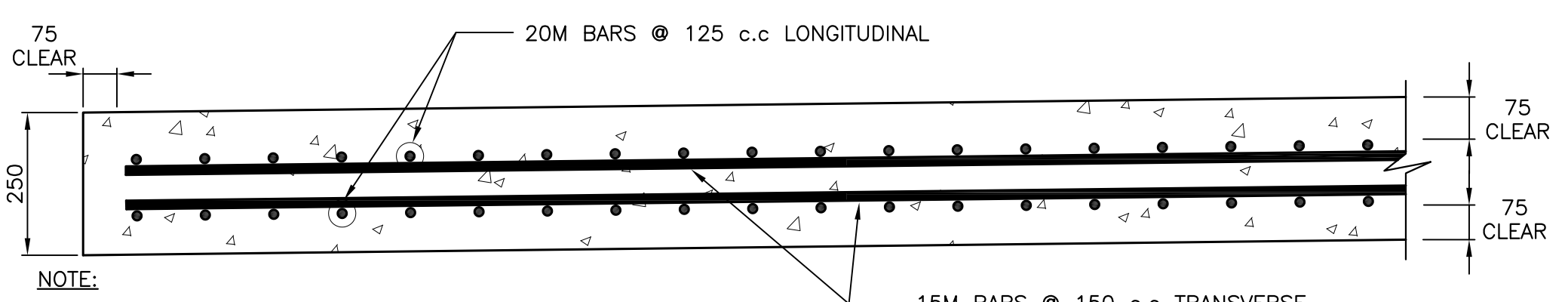
NOTE:  
 1. DECK REBAR OMITTED FOR CLARITY.



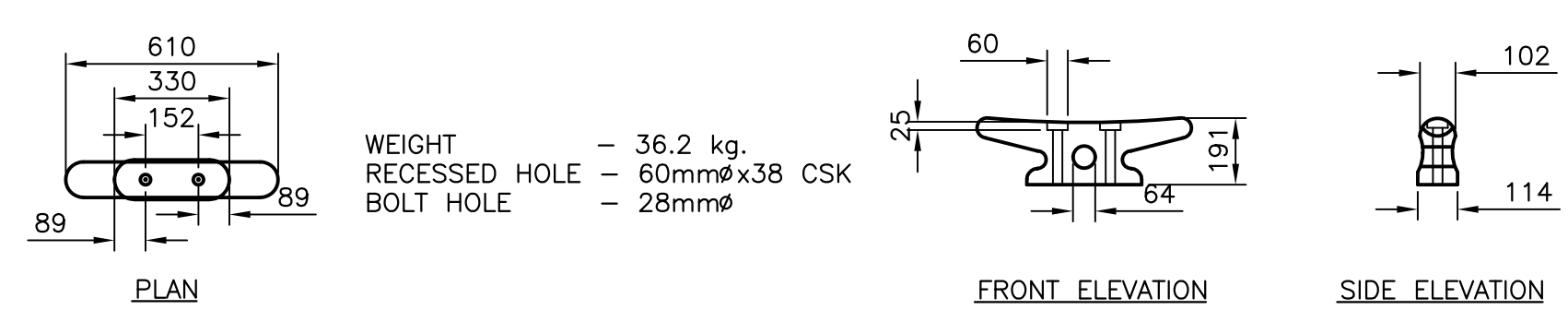
SECTION - CRIB  
 SCALE/ÉCHELLE: 1:40  
 1/6



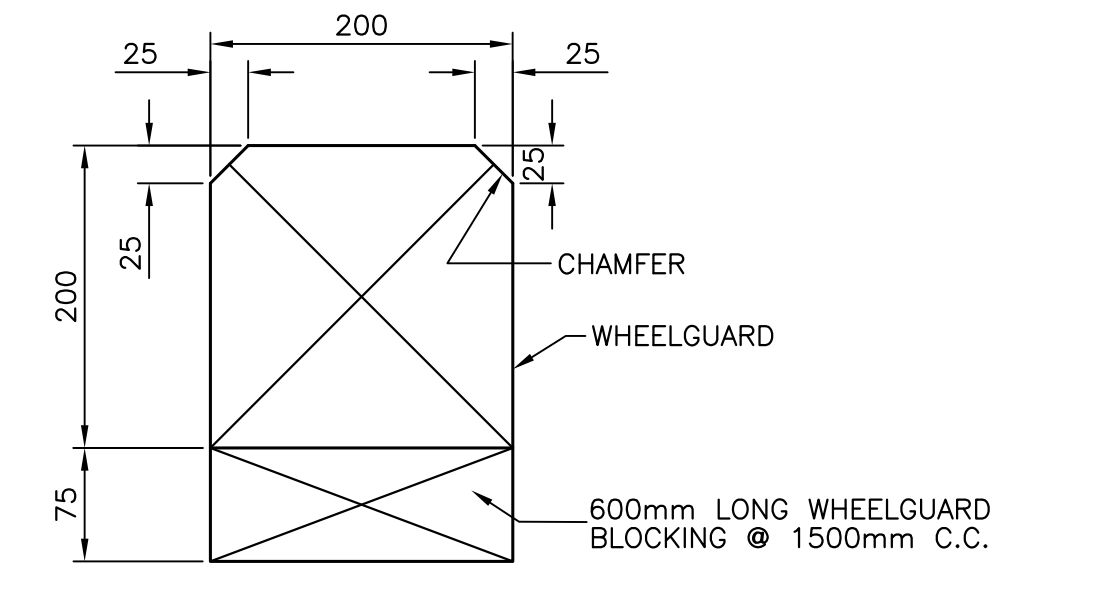
LADDER DETAIL  
 SCALE: 1:20  
 9/6



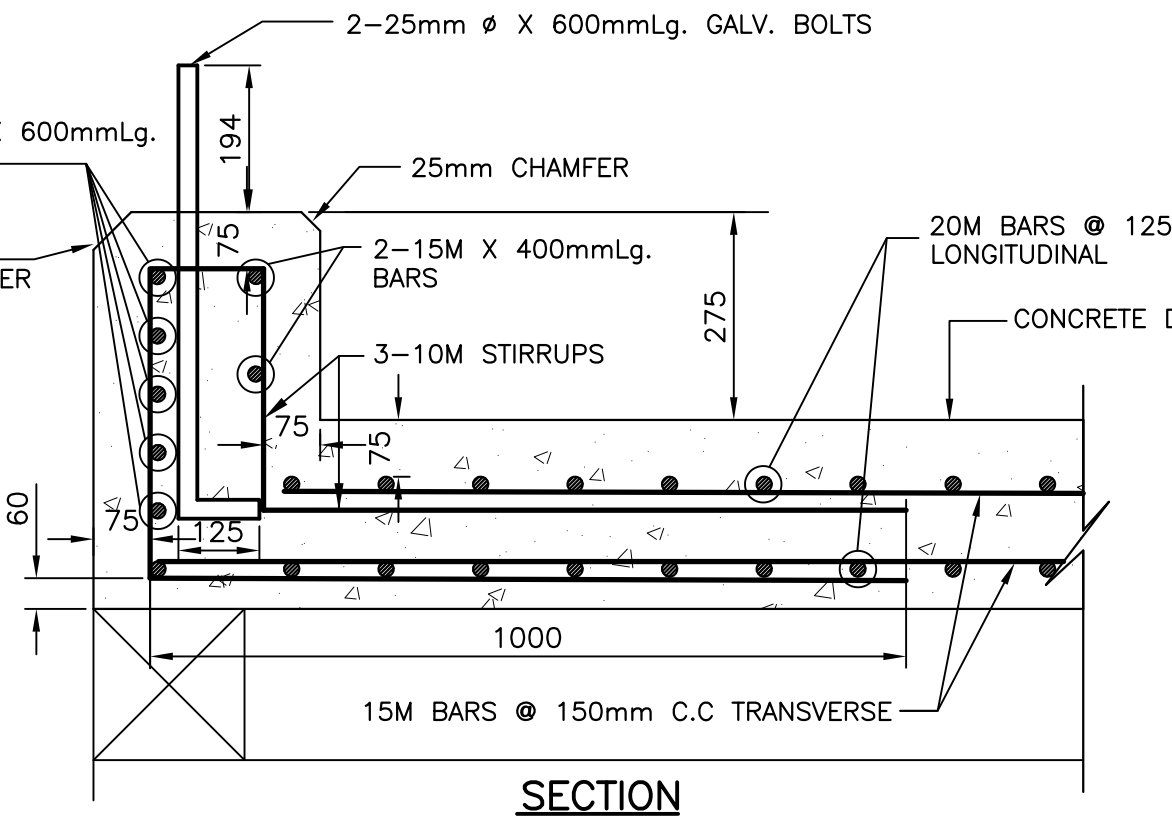
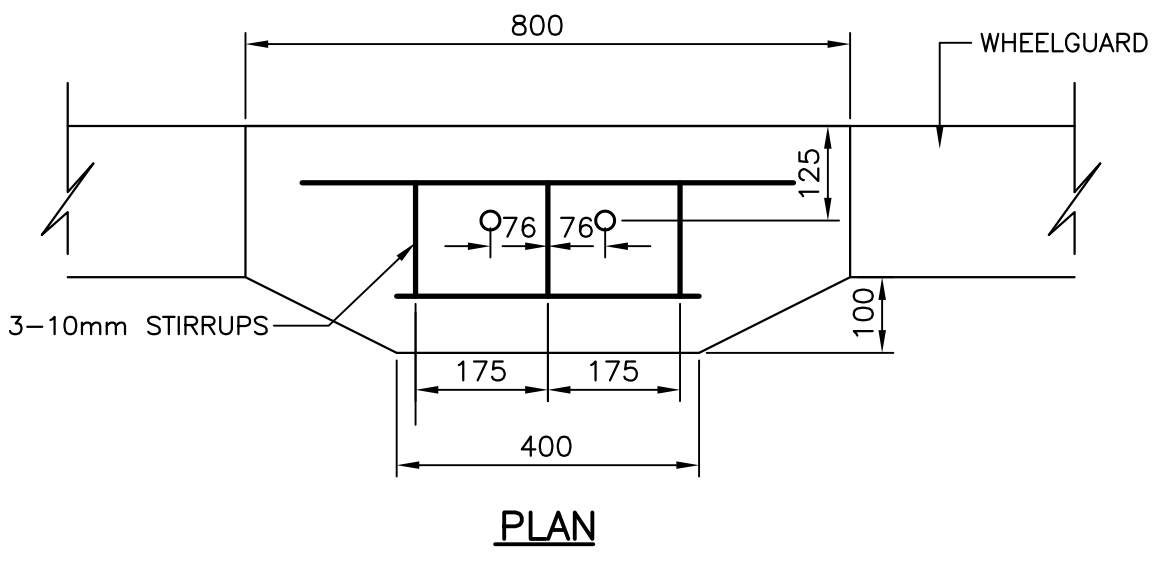
STRUCTURAL DECK  
 SCALE: 1:10  
 2/6



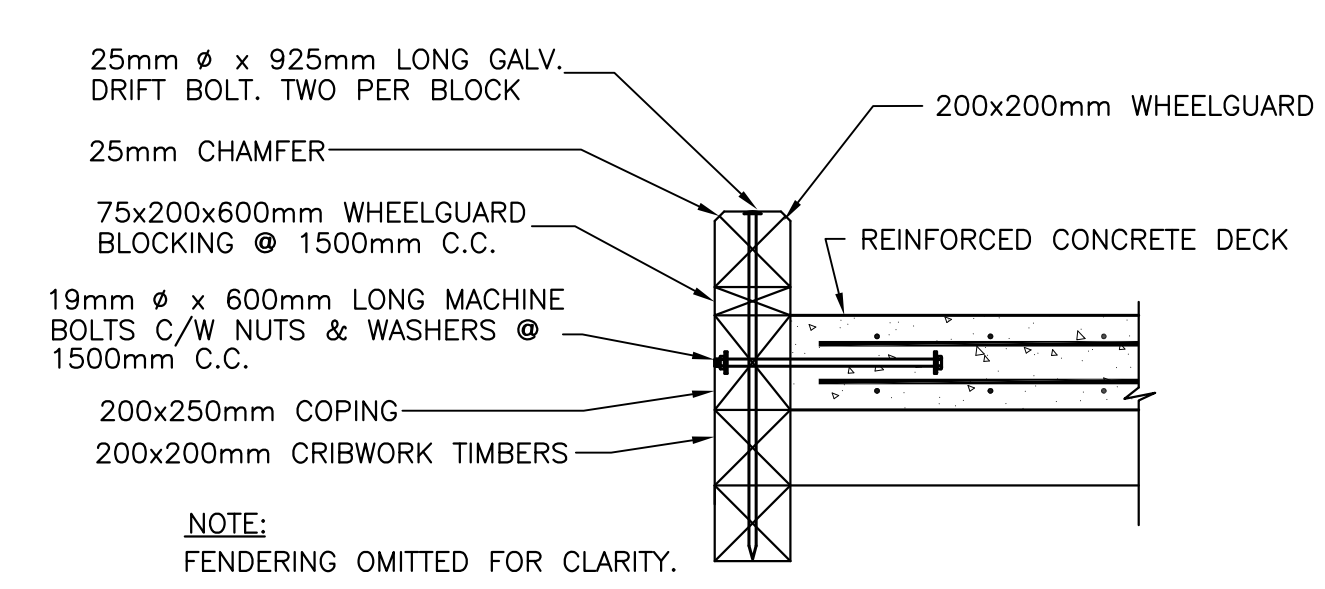
TYPE 'B1' CLEAT  
 SCALE: 1:20  
 6/6



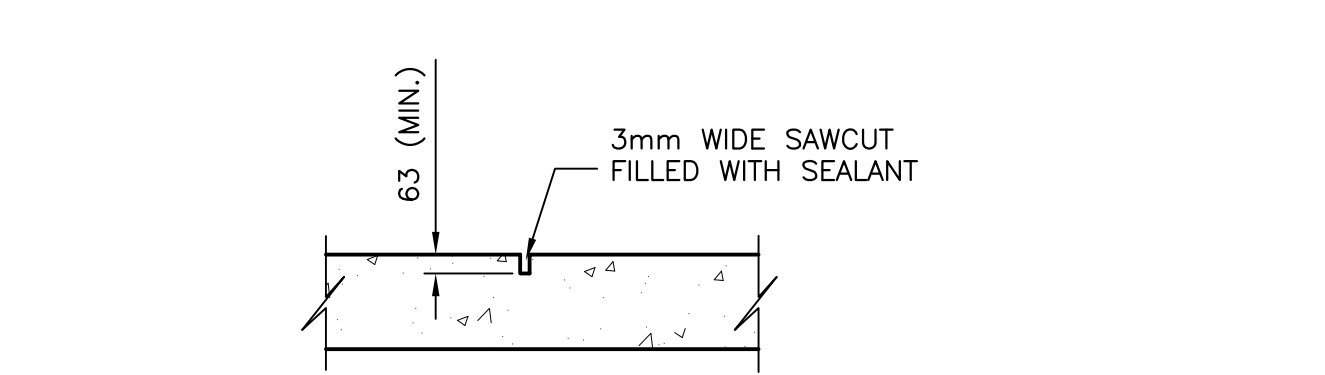
WHEELGUARD SECTION  
 SCALE: 1:5  
 3/6



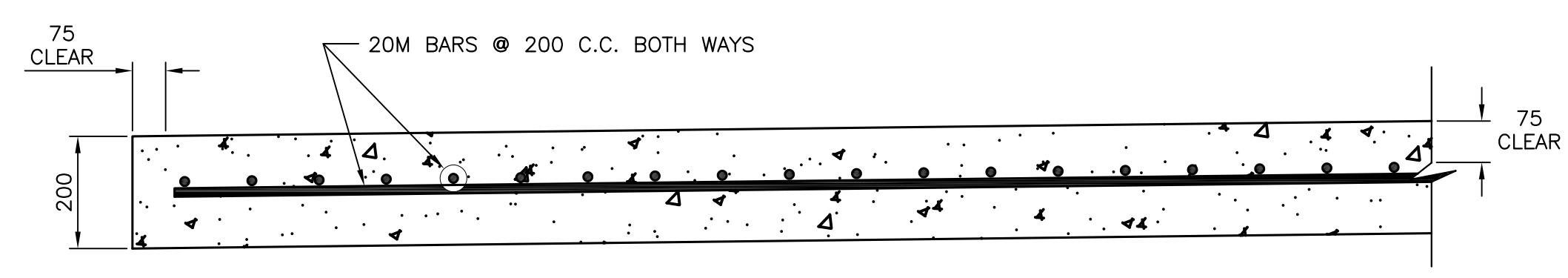
TYPE 'B1' CLEAT AND BLOCK  
 SCALE: 1:10  
 7/6



WHEELGUARD AND COPING DETAIL  
 SCALE: 1:20  
 4/6



TYPICAL CONTROL JOINT DETAIL  
 SCALE: 1:20  
 5/6



SLAB ON GRADE REINFORCING  
 SCALE: N.T.S.  
 8/6