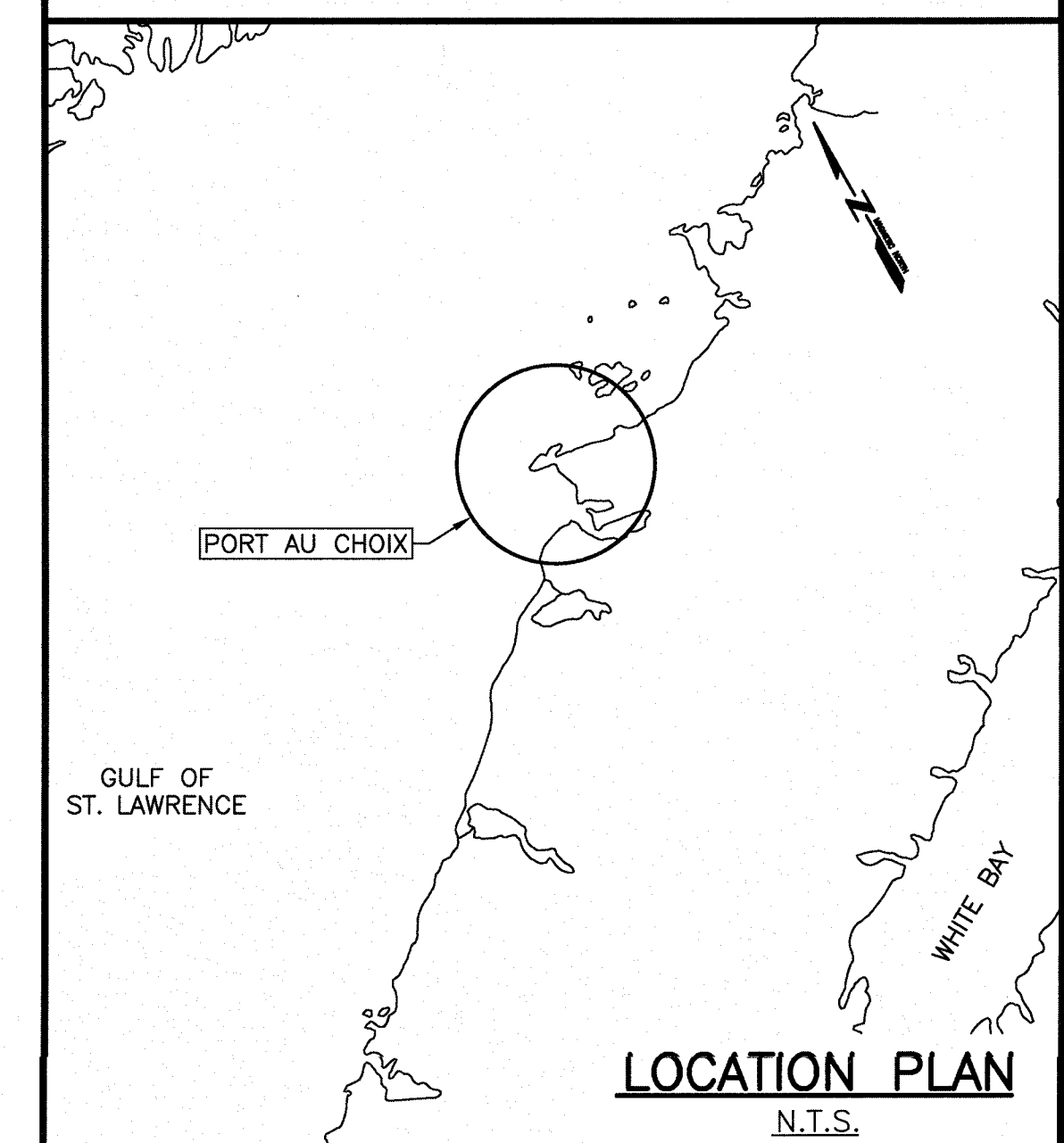
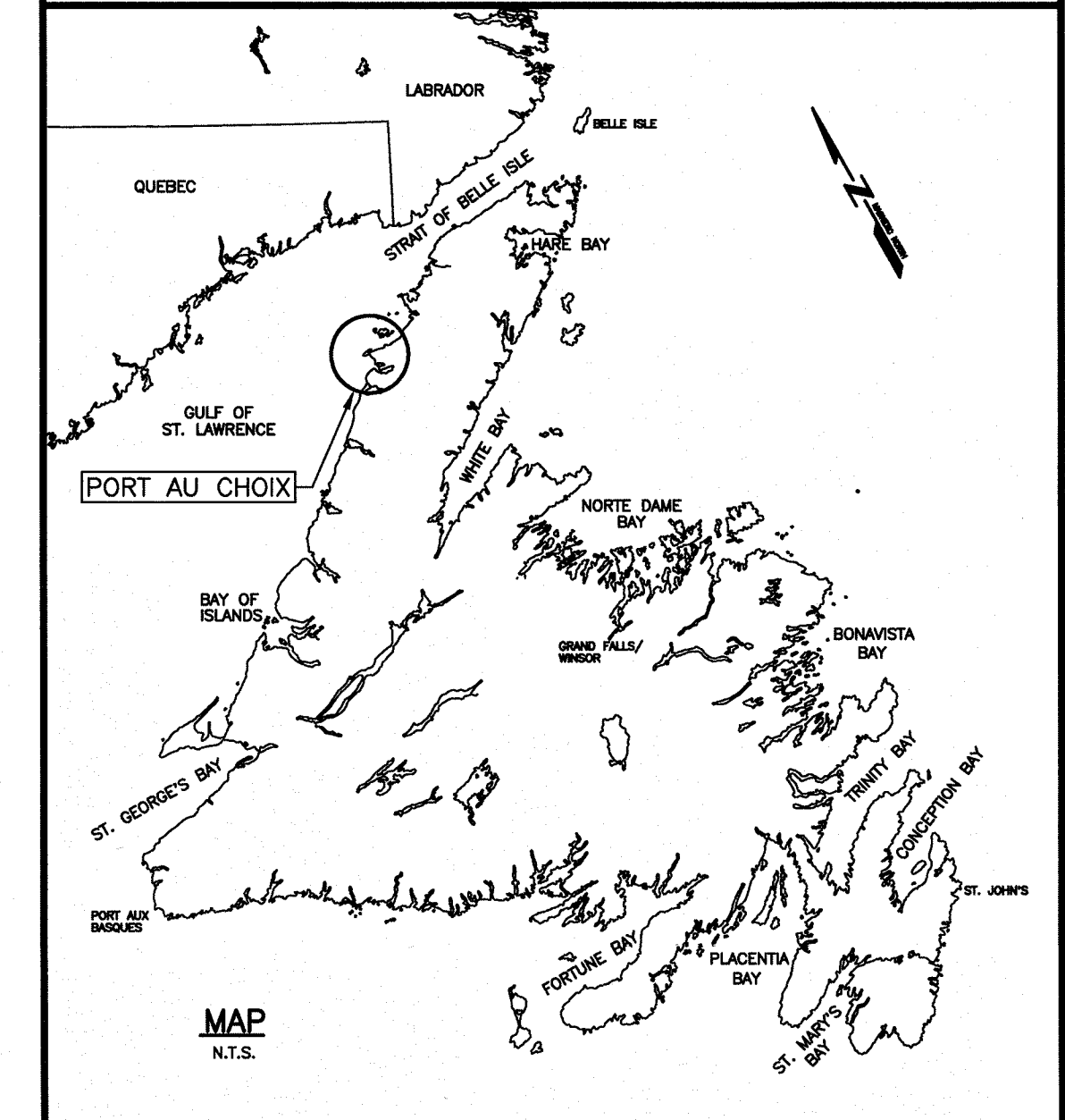


FISHERIES AND OCEANS  
CANADA

WHARF REPAIRS  
PORT AU CHOIX  
NEWFOUNDLAND AND LABRADOR

PROJECT No. 722592  
ISSUED FOR TENDER

SMALL CRAFT HARBOURS



LIST OF DRAWINGS:

C1 OF 5	SOUNDING AND TOPOGRAPHIC SURVEY
C2 OF 5	AREA 1
C3 OF 5	AREA 2
C4 OF 5	AREA 3
C5 OF 5	AREA 4

**NOTES**

SURVEY PARTY CHIEF RICHARD HEALEY  
 SURVEY VESSEL ALUMINUM BOAT  
 SURVEY DATE(S) OCTOBER 24, 2016, DECEMBER 08, 2016, JUNE 22, 2017 & AUG. 22, 2017  
 SOUNDER TYPE SINGLE TRANSDUCER  
 SOUNDER SETTING MIN/INST VEL. OF SOUND 1502 m/s  
 DEPTH GATE USED N/A FRE. 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 AUGUST 2017

MODE OF PLOTTING  
 MATRIX CELL WIDTH X LENGTH  
 REDUCTION OF MATRIX CELLS

PL NAME	EASTING	NORTHING	CD ELEV	DESCRIPTION
BM 1-1981	475036.970	561915.386	+2.456 m	CHS BRASS PLAQUE SET IN BERDOCK
PWC 3-93	475036.970	561915.386	+2.472 m	CHS BRASS PLAQUE SET IN CONCRETE DECK
BM 1-1981	475036.977	5617176.094	+2.472 m	BOLT SET IN CONCRETE DECK
PWC 3-93	475036.977	5617176.094	+2.472 m	BOLT SET IN CONCRETE DECK
BM 1-1981	475036.445	5617345.125	+2.941 m	CHS BRASS PLAQUE IN CONCRETE BOLLARD
BM 2-1981	475066.509	5617076.973	+4.512 m	CHS BRASS PLAQUE IN CONCRETE WALL
PWC 2-14	475029.698	5617099.010	+6.140 m	NAIL DRIVEN IN PAVEMENT
PWC 2-14	475029.698	5617099.010	+6.140 m	NAIL IN CONCRETE SIDEWALK

**ALL SOUNDINGS & ELEVATIONS IN METRES.**

ALL SOUNDINGS & ELEVATIONS REFERRED TO CHS BM 1-1981 ELEV. +2.441m (BRASS PLAQUE SET IN CONCRETE BOLLARD OR CHS BM 2-1981 ELEV. +4.512m (BRASS PLAQUE IN WALL))

SOUNDINGS TAKEN USING NAVSOUND 210 ECHO SOUNDER AND POSITIONED BY TRIMBLE R7 GNSS DIFFERENTIAL GPS POSITIONING SYSTEM BETWEEN OCTOBER 24, 2016 & AUGUST 22, 2017 BY PWCS 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 PORT AUX CHOIX BOOK #42.

**LEGEND**

- SYMBOLS**
- ANCHORAGE
  - ANCHOR BLOCK
  - BOLLARD
  - BREWERIE
  - BEACON/MARKER
  - CARD POSITION BUOY
  - DATED MARK
  - CLAY
  - CULVERT
  - BORROW
  - DISPOSAL
  - BREAKER CONTROL
  - ELECTRICAL OUTLET
  - FIRE HYDRANT
  - FIRST AID
  - FISH HANDLING EQUIP.
  - FUEL PUMP
  - H FILE
  - HORIZONTAL CONTROL
  - ICE PLANT
  - INVERT PIPE
  - JOB CRANE
  - FLAG POLE
- LINE TYPE**
- ARMOR STONE
  - CL WALLING
  - BRAN PIPE
  - EDGE ROAD / SHOULDER
  - FENCE LINE
  - FLIGHTING WATERWAY
  - GRAVE RAIL
  - HIGH WATER MARK
  - LOW WATER MARK
- MARKER**
- LASSER
  - LIFT RING
  - LIGHT STANDARD
  - MANHOLE
  - MARKER
  - MAST/TOWER
  - NAVIGATION LIGHT
  - OBSERVED BUOY
  - OBSERVED SWM BUOY
  - PIPE PILE
  - RANGE LIGHT
  - SAFETY POST
  - SEWER OUTFLOW PIPE
  - SSM
  - TELEPHONE
  - TELEPHONE POLE
  - THE GUARD/STAFF
  - TRUSS
  - UTILITY POLE
  - FISH MARK
  - VERTICAL CONTROL
  - WATER TAP/VALVE
  - WATER VALVE
  - WATER WELL
  - WIND PILE
- WASH OUTLINE**
- PROPERTY BOUNDARY
  - RANGE LIGHT EXTENSION
  - RETAINING WALL
  - SEWER
  - TIDE OF BANK
  - TREE LINE
  - UNDERGROUND CABLE



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

**SMALL CRAFT HARBOURS**

**NOTES:**

- ALL ELEVATIONS ARE IN METRES UNLESS OTHERWISE NOTED.
- 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, *see U.E.C.*  
 Permit No. as issued by APEBNL, F0292, which is valid for the year 2018.

**NEIL C. HUNT**  
 REGISTERED PROFESSIONAL ENGINEER  
 7/13/18  
 NEWFOUNDLAND & LABRADOR

---

B	ISSUED FOR TENDER	7/13/18
A	ISSUED FOR REVIEW	7/4/18
revisions	date	
project	project	

**WHARF REPAIRS  
PORT AU CHOIX, NL**

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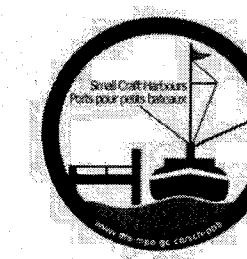
**SOUNDING AND  
TOPOGRAPHIC SURVEY**

designed N.H. concur  
 date JULY 13, 2018  
 drawn P.H. dessine  
 date JULY 13, 2018  
 approved approuve

Tender *Paul Rennie* Soumission  
 DFO Project Manager  
 project number **722592** no. du projet

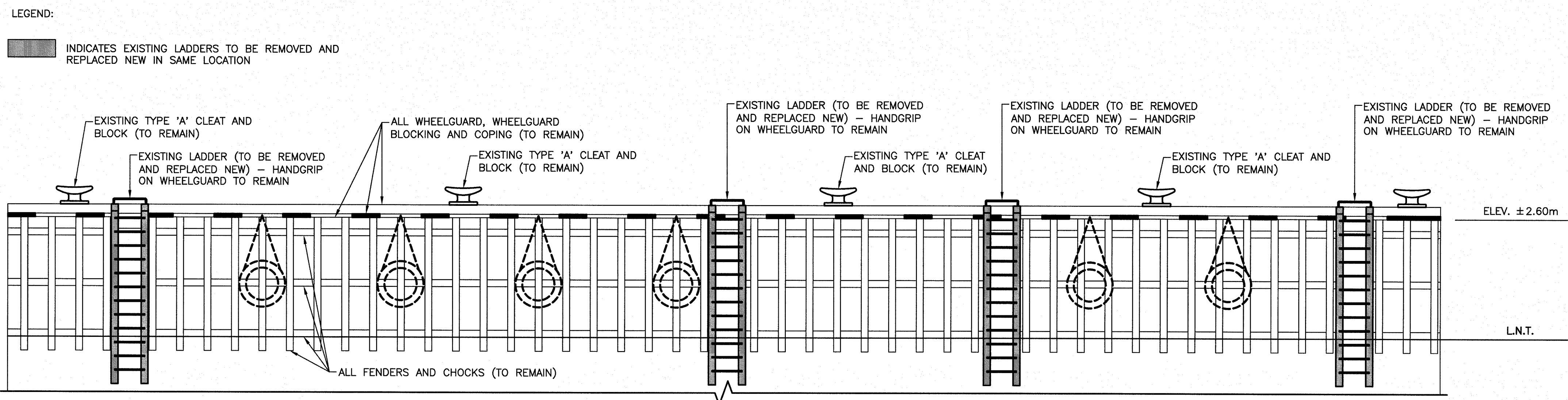
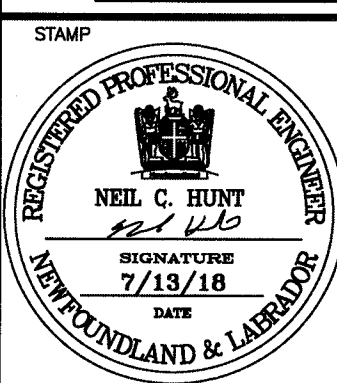
**C1**

SMALL CRAFT HARBOURS



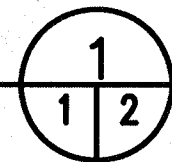
- NOTES:
1. ALL ELEVATIONS ARE IN METRES UNLESS OTHERWISE NOTED.
  2. ALL DIMENSIONS ARE IN MILLIMETRES UNLESS OTHERWISE NOTED.

PROVINCE OF NEWFOUNDLAND  
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 which is valid for the year 2018.



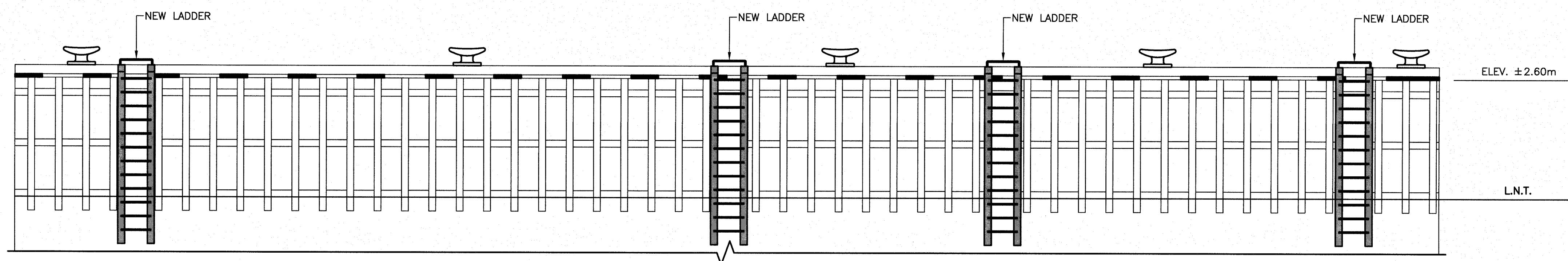
ELEVATION - EXISTING

SCALE : 1:60



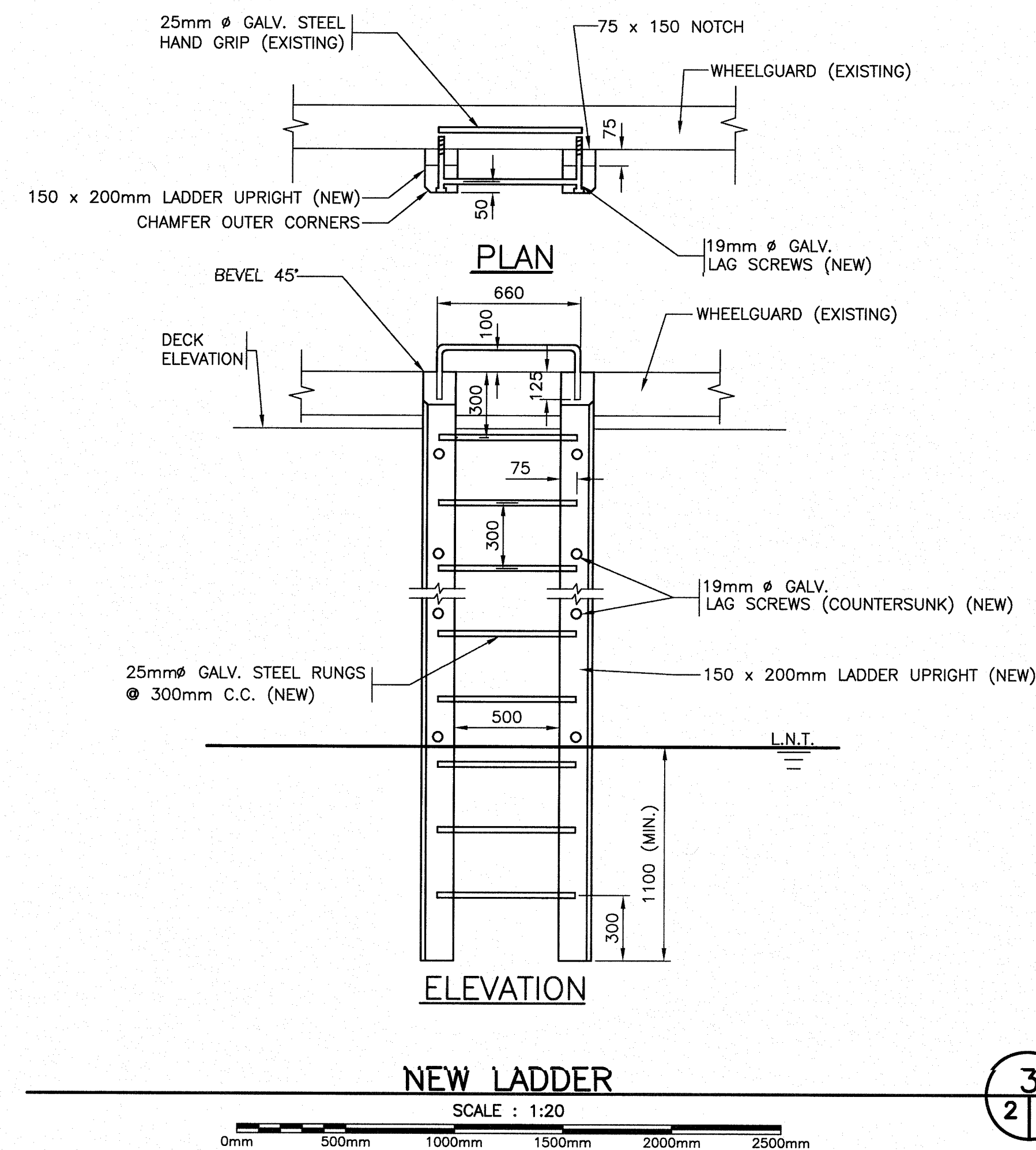
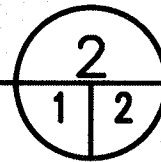
LEGEND:  
 ■ INDICATES NEW WORK

NOTE:  
 1. EXISTING RUBBER TIRES NOT SHOWN ON THIS ELEVATION VIEW.



ELEVATION - NEW

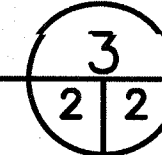
SCALE : 1:60



ELEVATION

NEW LADDER

SCALE : 1:20



B	ISSUED FOR TENDER	7/13/18
A	ISSUED FOR REVIEW	7/4/18
revisions	date	
project	project	

WHARF REPAIRS  
 PORT AU CHOIX, NL

AREA 1

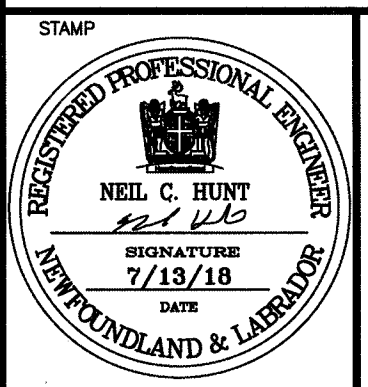
designed N.H.	conco
date JULY 13, 2018	dessine
drawn P.H.	approved
date JULY 13, 2018	no. du projet
approved	no. du dessin
Tender Paul Renna	
DFO Project Manager	
project number 722592	
drawing no. C2	

SMALL CRAFT HARBOURS



- NOTES:
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  2. ALL DIMENSIONS ARE IN MILLIMETRES UNLESS OTHERWISE NOTED.

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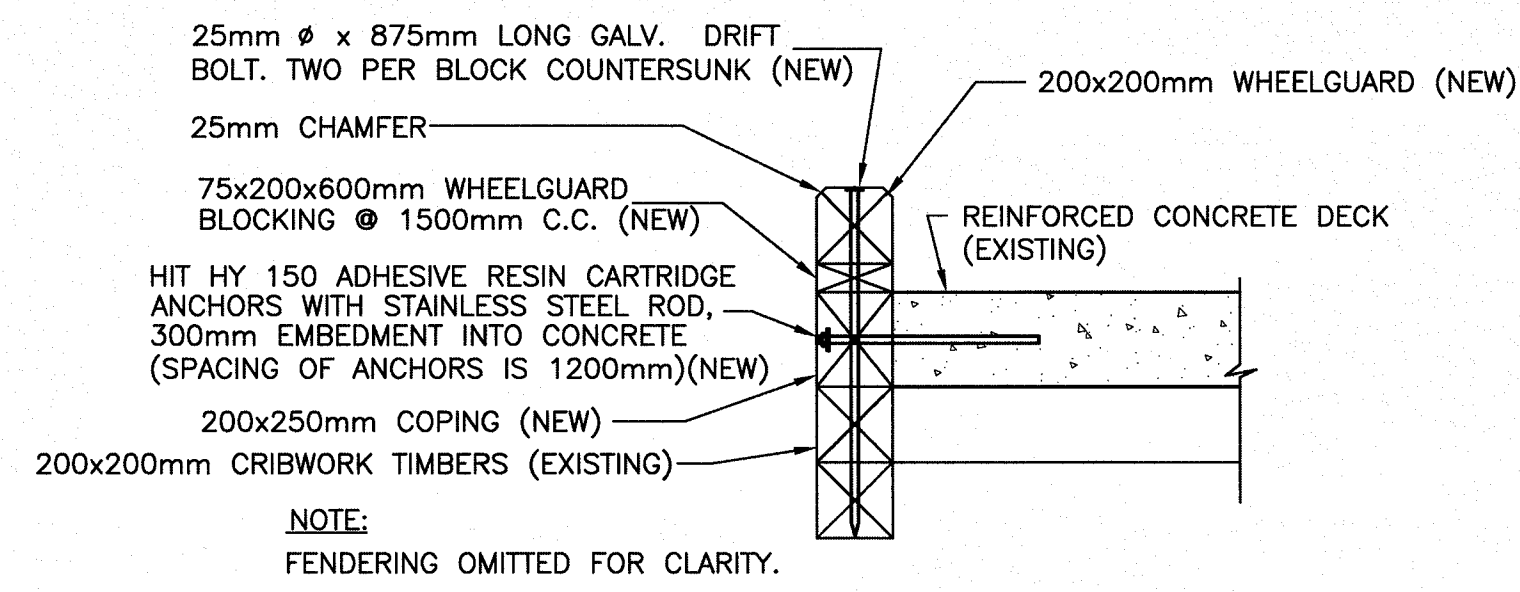
B	ISSUED FOR TENDER	7/13/18
A	ISSUED FOR REVIEW	7/4/18
revisions		date
project		project

WHARF REPAIRS  
 PORT AU CHOIX, NL

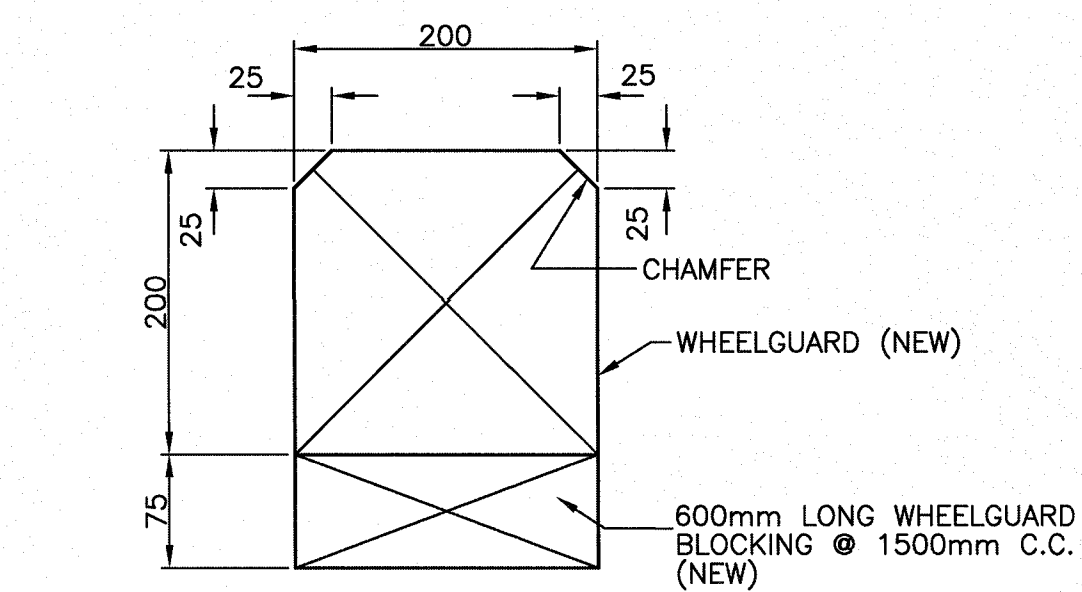
drawing dessin

AREA 2

designed N.H.	conçu
date JULY 13, 2018	
drawn P.H.	dessiné
date JULY 13, 2018	
approved	approuvé
Tender Paul Curran	Submission
DFO Project Manager	
project number 722592	no. du projet
drawing no. C3	no. du dessin

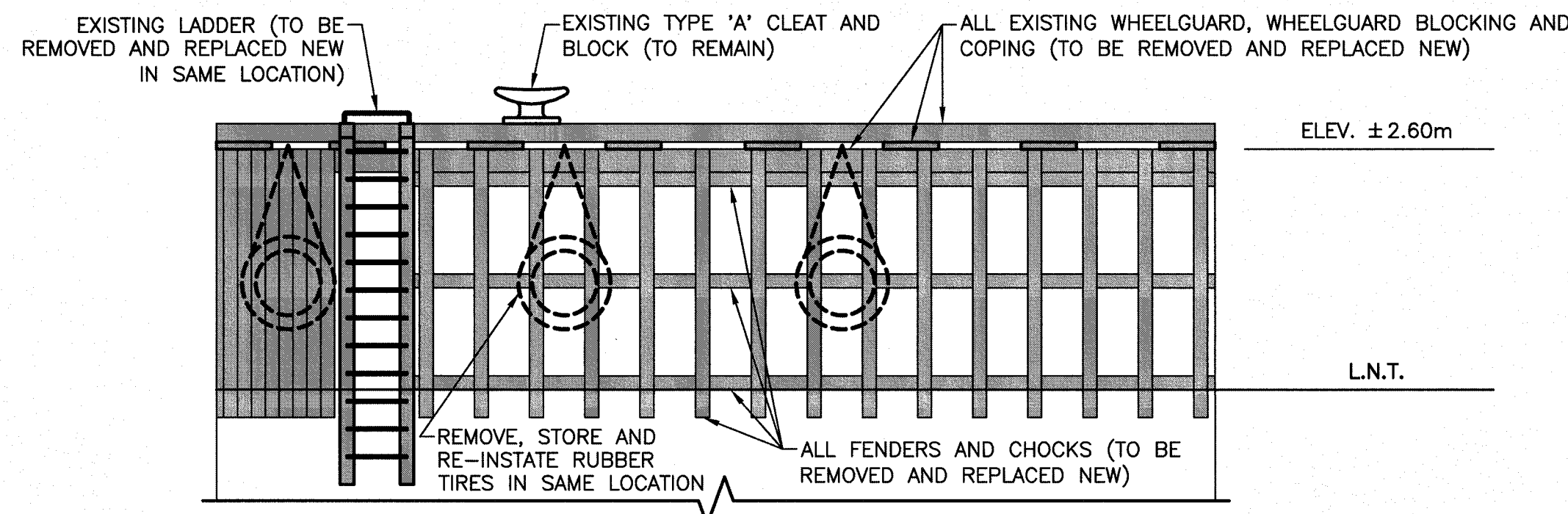


WHEELGUARD AND COPING DETAIL (3)  
 SCALE: 1:20



WHEELGUARD SECTION (4)  
 SCALE: 1:5

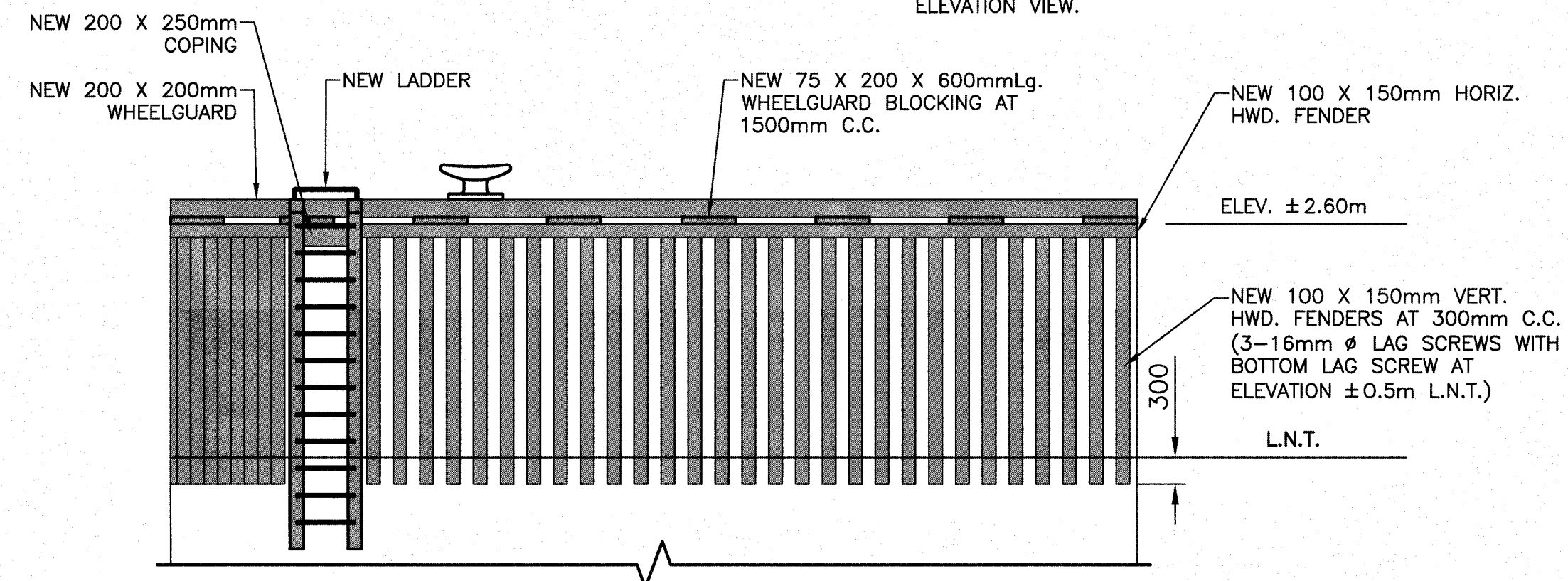
LEGEND:  
 [Hatched Box] INDICATES EXISTING LADDERS, WHEELGUARD, WHEELGUARD BLOCKING, COPING, FENDERS AND CHOCKS TO BE REMOVED



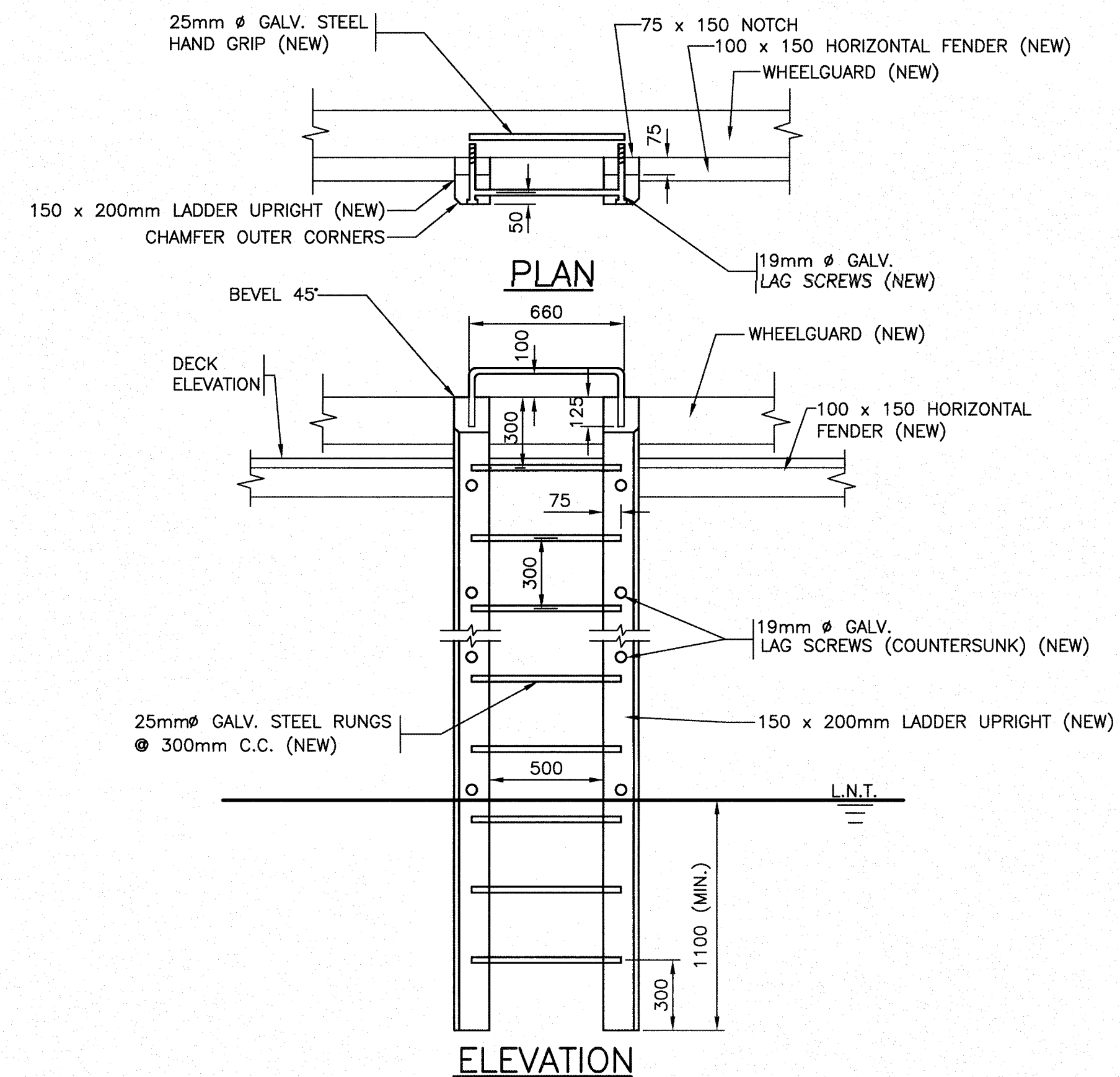
ELEVATION - EXISTING (1)  
 SCALE: 1:60

- NOTES:
1. STAGGERING OF LAG SCREWS IN FENDERS IS TO BE EXPECTED DUE TO POTENTIAL POOR CONDITION OF EXISTING CRIB TIMBERS. IN THIS REGARD DO NOT ARBITRARILY PRE-DRILL HOLES IN FENDERS UNTIL SUITABLE ATTACHMENT LOCATION IS CONFIRMED TO BE ACCEPTABLE TO DEPARTMENTAL REPRESENTATIVE.
  2. SIZE OF COPING MAY VARY. BE PREPARED TO RIP TIMBER AND FIELD TREAT TO SUIT SITE CONDITION.
  3. RE-INSTATED RUBBER TIRES NOT SHOWN ON THIS ELEVATION VIEW.

LEGEND:  
 [Hatched Box] INDICATES NEW WORK

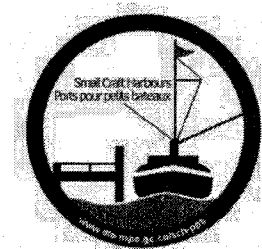


ELEVATION - NEW (2)  
 SCALE: 1:60

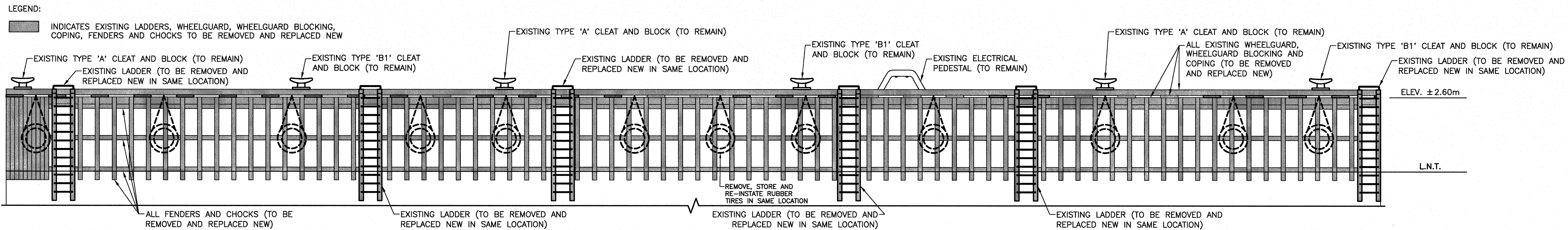


NEW LADDER DETAIL (5)  
 SCALE: 1:20

SMALL CRAFT HARBOURS

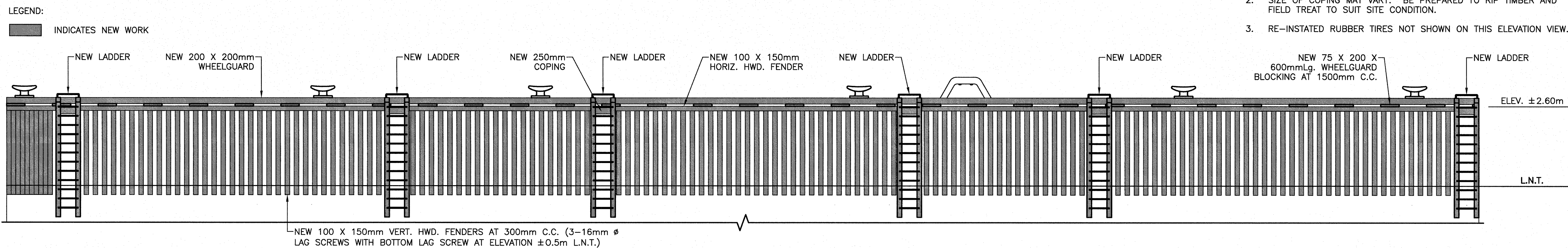
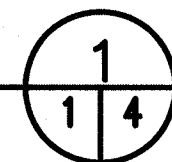


- NOTES:
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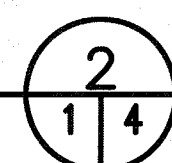
ELEVATION - EXISTING

SCALE : 1:75



ELEVATION - NEW

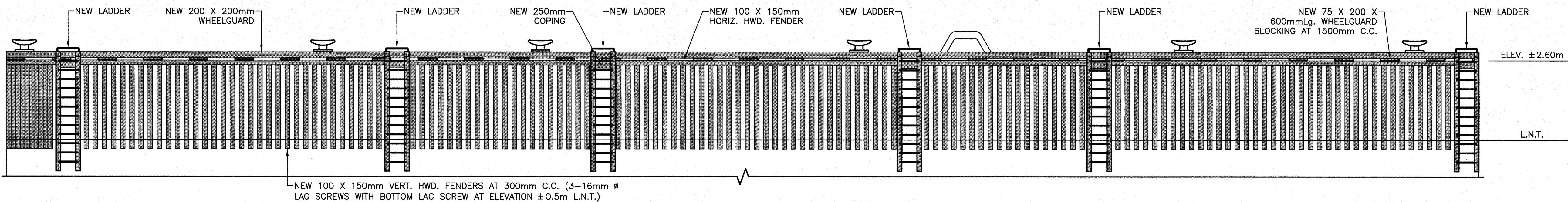
SCALE : 1:75



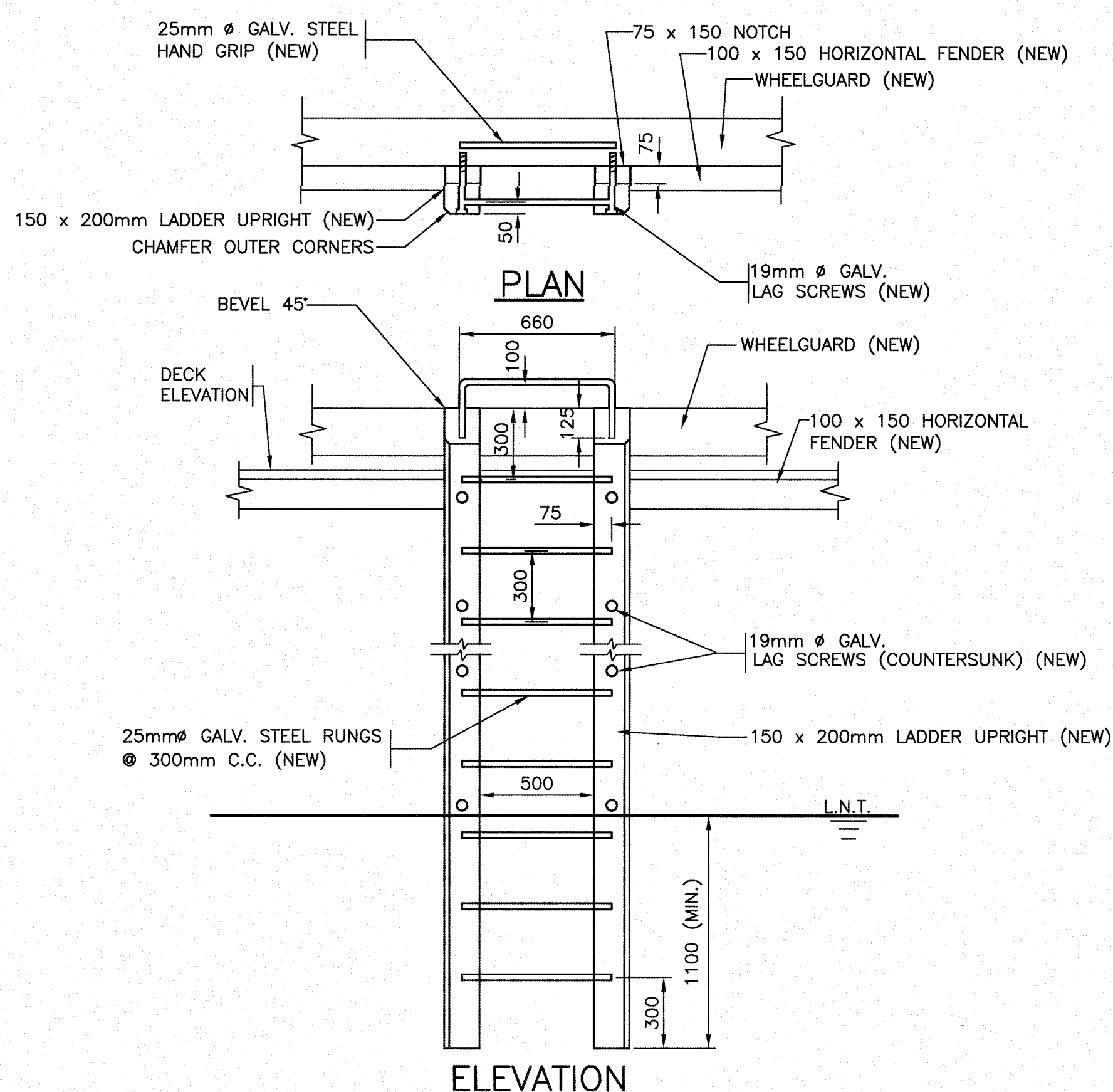
NOTES:

1. STAGGERING OF LAG SCREWS IN FENDERS IS TO BE EXPECTED DUE TO POTENTIAL POOR CONDITION OF EXISTING CRIB TIMBERS. IN THIS REGARD DO NOT ARBITRARILY PRE-DRILL HOLES IN FENDERS UNTIL SUITABLE ATTACHMENT LOCATION IS CONFIRMED TO BE ACCEPTABLE TO DEPARTMENTAL REPRESENTATIVE.
2. SIZE OF COPING MAY VARY. BE PREPARED TO RIP TIMBER AND FIELD TREAT TO SUIT SITE CONDITION.
3. RE-INSTATED RUBBER TIRES NOT SHOWN ON THIS ELEVATION VIEW.

LEGEND:  
INDICATES NEW WORK



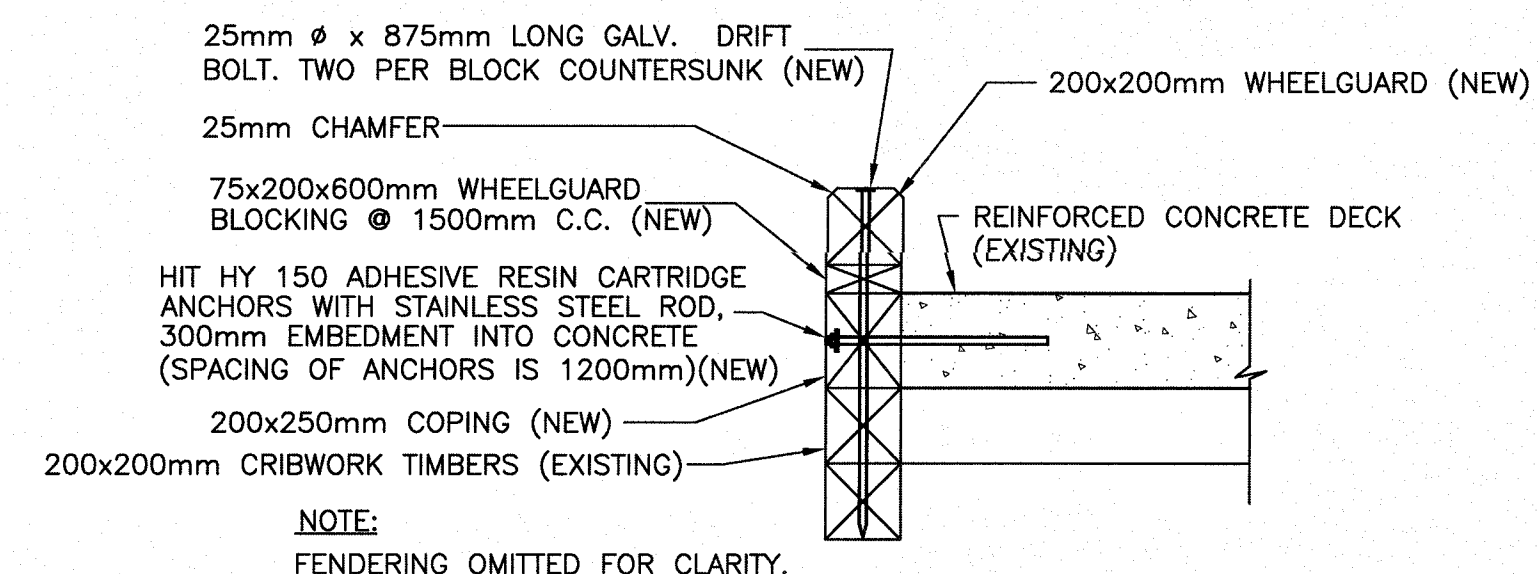
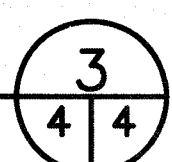
NEW 100 X 150mm VERT. HWD. FENDERS AT 300mm C.C. (3-16mm Ø LAG SCREWS WITH BOTTOM LAG SCREW AT ELEVATION ±0.5m L.N.T.)



NEW LADDER DETAIL

SCALE : 1:20

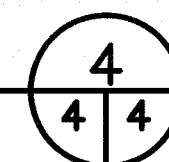
0mm 500mm 1000mm 1500mm 2000mm 2500mm



WHEELGUARD AND COPING DETAIL

SCALE : 1:20

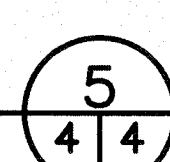
0mm 500mm 1000mm 1500mm 2000mm 2500mm



WHEELGUARD SECTION

SCALE : 1:5

0mm 100mm 200mm 300mm 400mm 500mm



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revisions		date
project		project

WHARF REPAIRS  
PORT AU CHOIX, NL

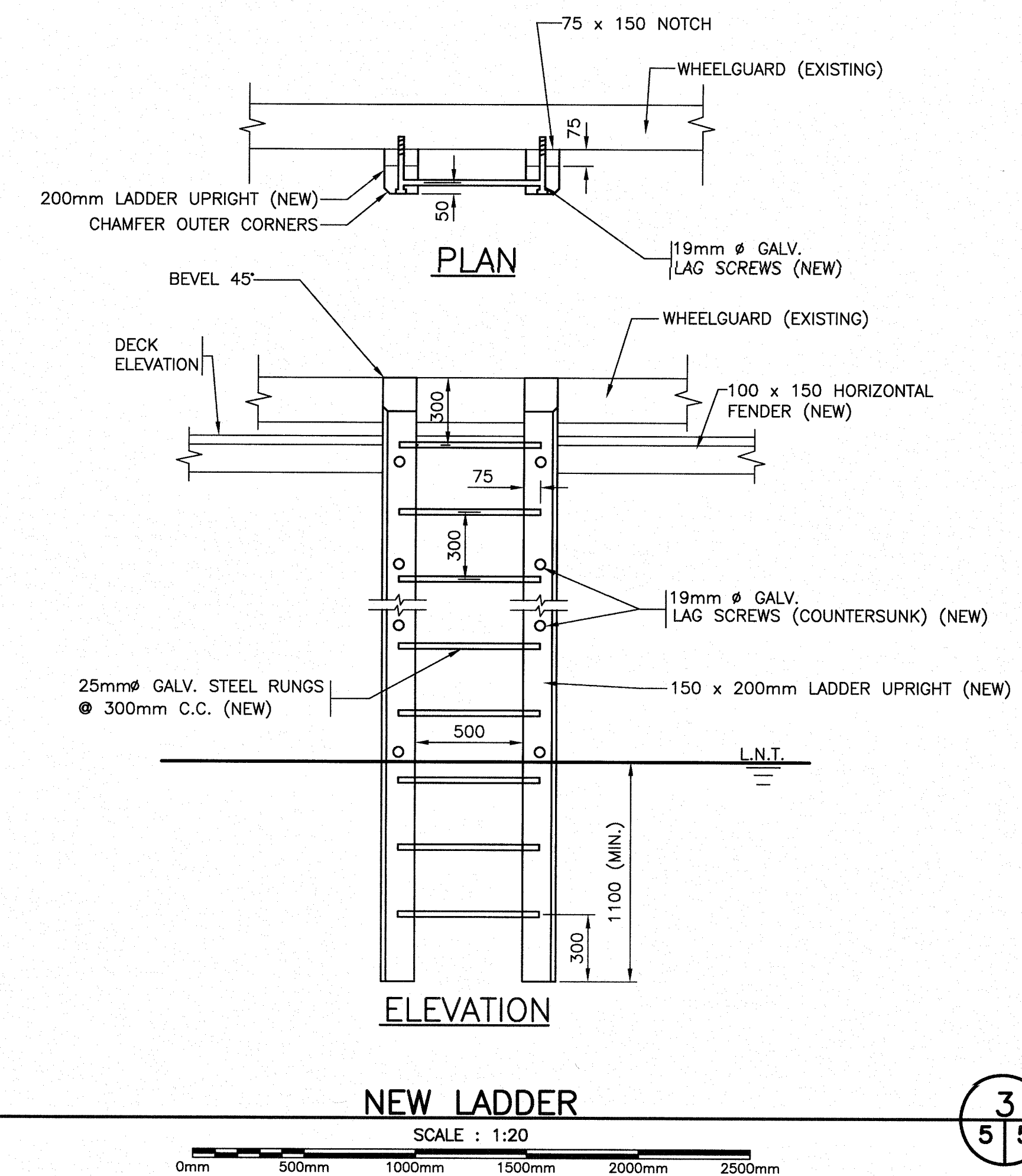
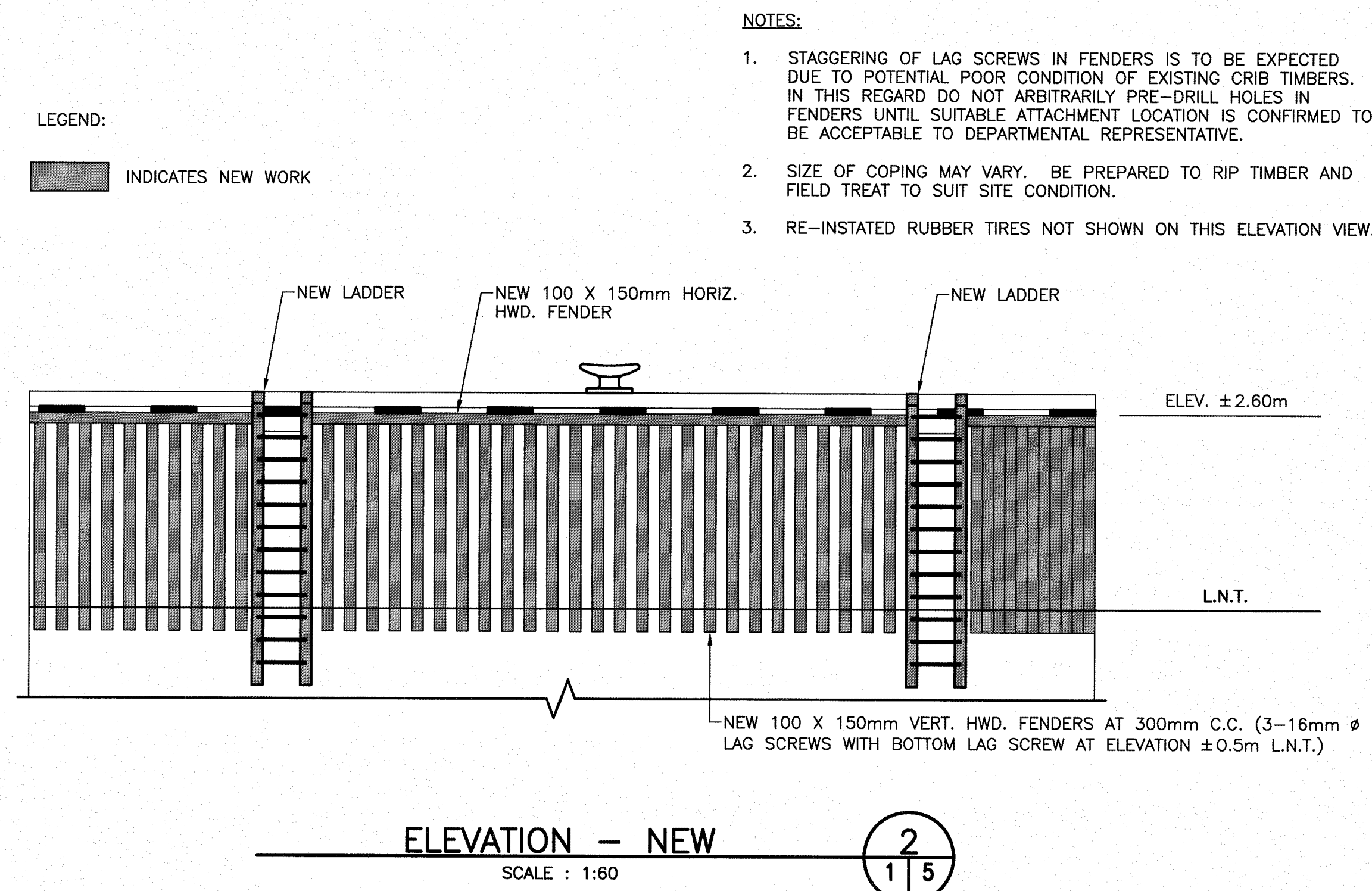
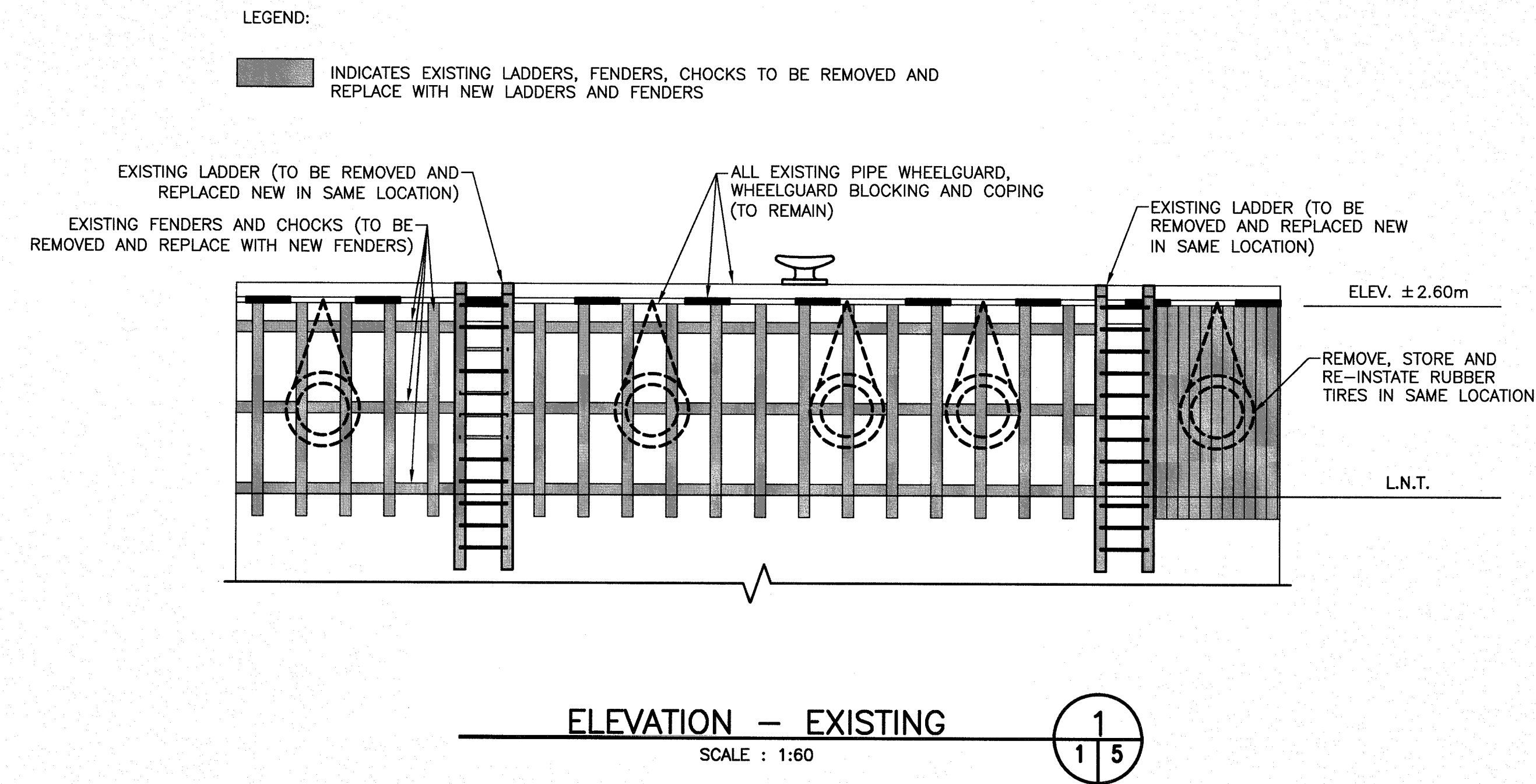
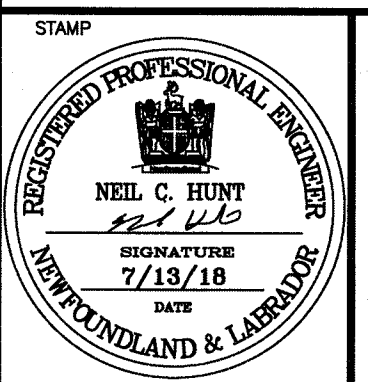
drawing	design
AREA 3	
designed N.H.	conc
date	JULY 13, 2018
drawn	P.H. design
date	JULY 13, 2018
approved	approve
Tender	Paul Pechee Submission
DFO Project Manager	
project number	722592 no. du projet
drawing no.	C4 no. du dessin

SMALL CRAFT HARBOURS



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revisions		date
project		project

WHARF REPAIRS  
 PORT AU CHOIX, NL

drawing design

AREA 4

designed N.H.	concu
date JULY 13, 2018	
drawn P.H.	designe
date JULY 13, 2018	
approved	approve

Tender Paul Curran	Submission
DFO Project Manager	
project number 722592	no. du projet
drawing no. C5	no. du dessin