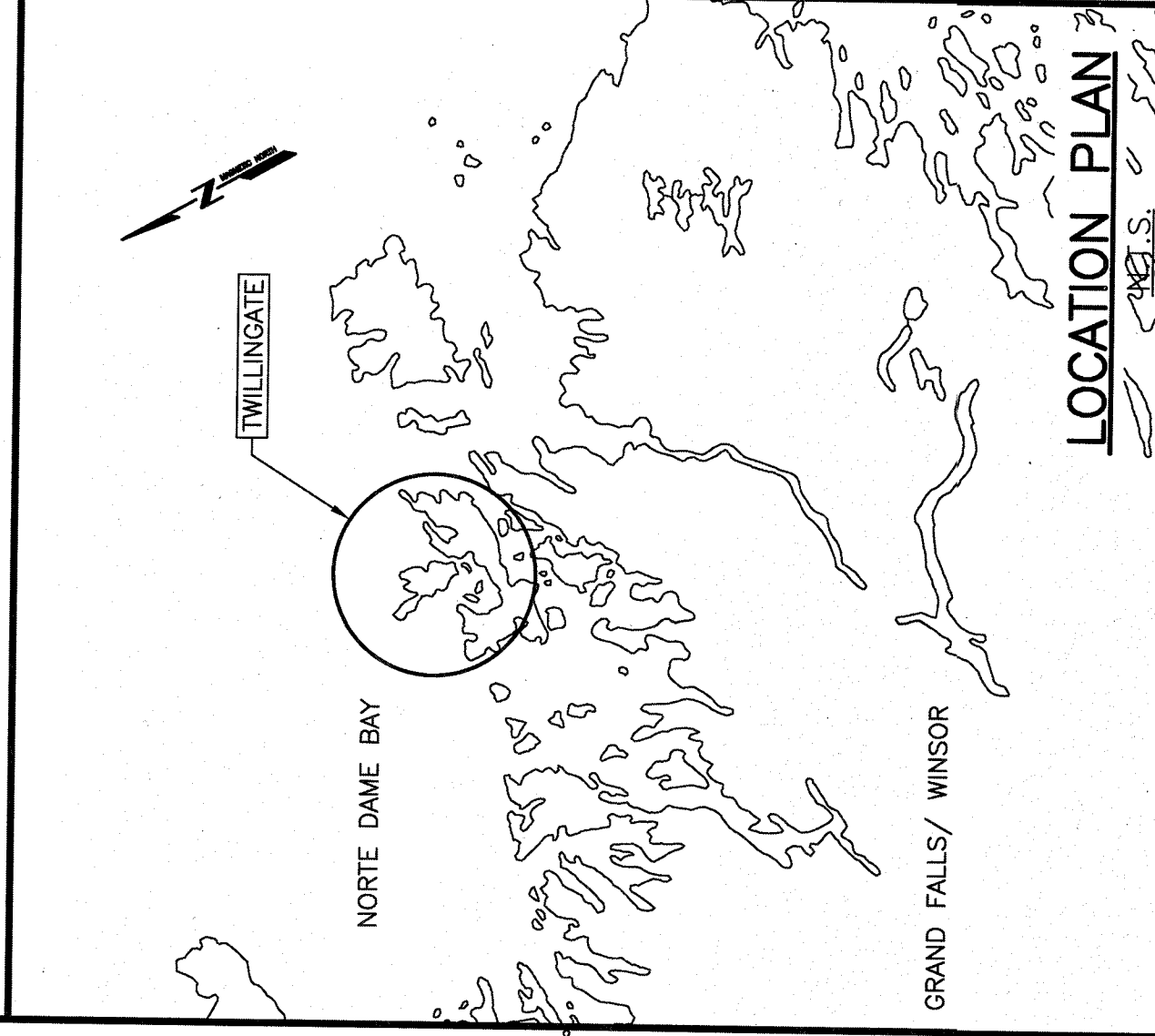
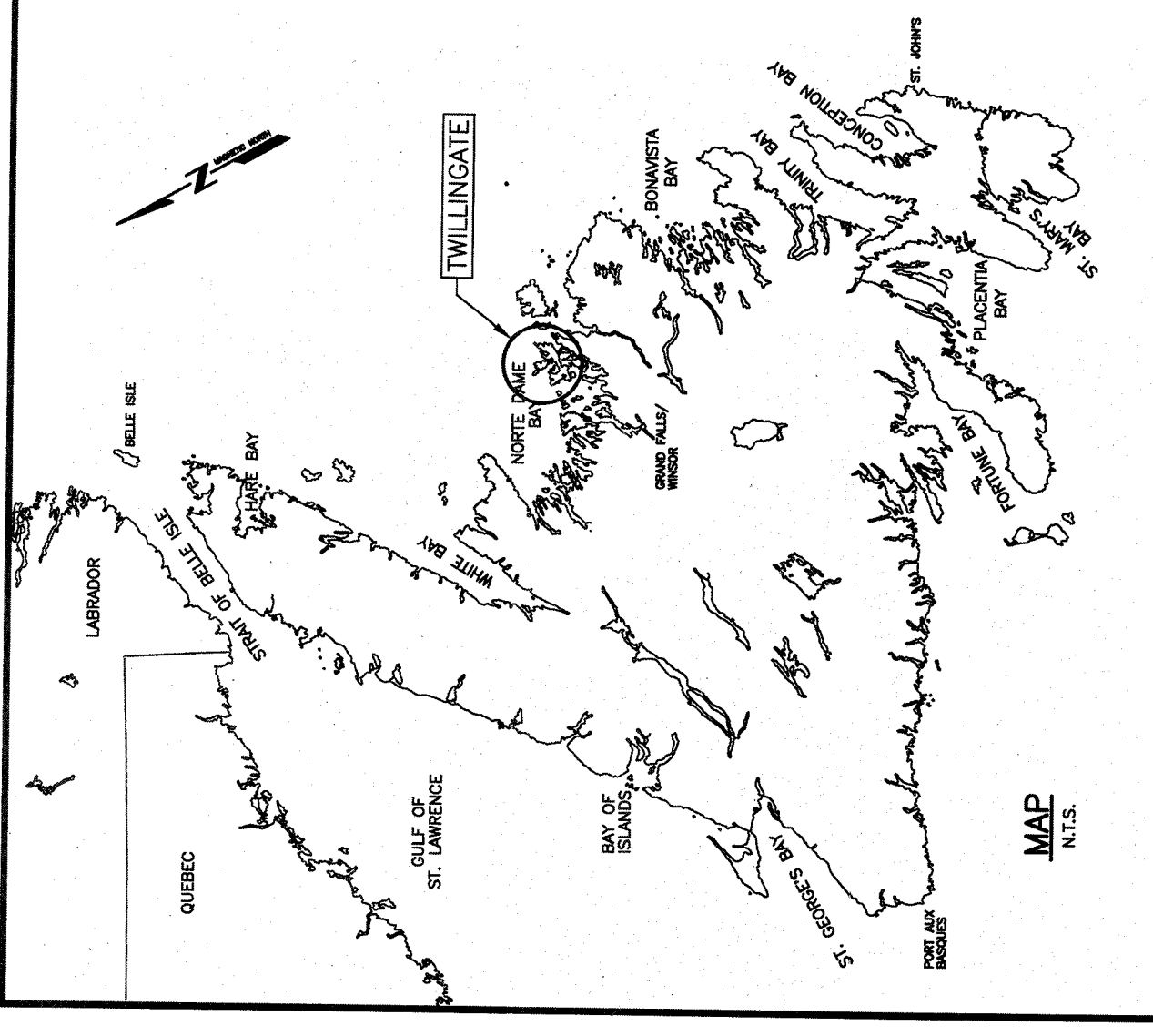
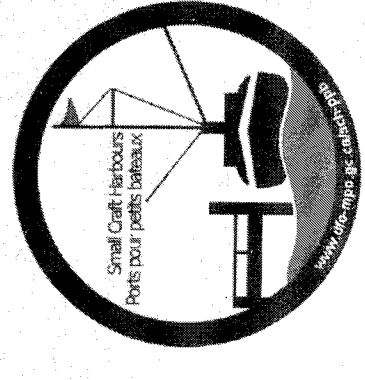


FISHERIES AND OCEANS
CANADA

SMALL CRAFT HARBOURS

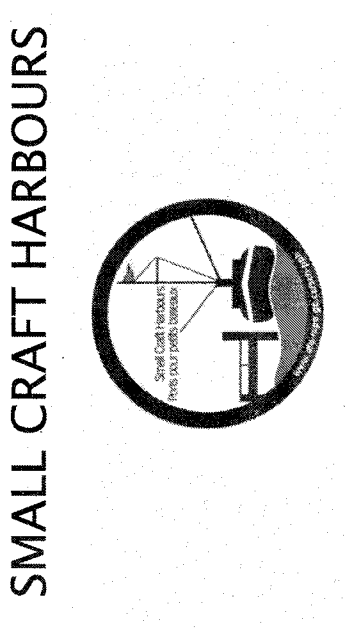


**WHARF REPAIRS
TWILLINGATE
NEWFOUNDLAND AND LABRADOR**

PROJECT No. 722591

LIST OF DRAWINGS:

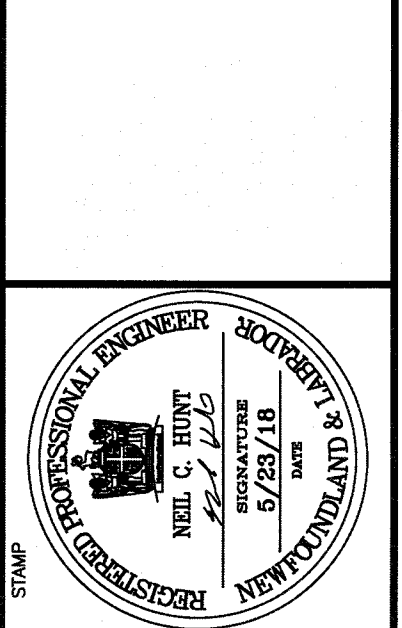
C1	OF	7	SOUNDING AND TOPOGRAPHIC SURVEY
C2	OF	7	WORK PLAN
C3	OF	7	EXISTING ELEVATIONS
C4	OF	7	EXISTING ELEVATION AND SECTION
C5	OF	7	NEW ELEVATIONS
C6	OF	7	NEW ELEVATION AND SECTION
C7	OF	7	DETAILS



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 The Permit Allows ANY ENGINEERING INC.



ISSUED FOR TENDER 3/16/18

WHARF REPAIRS TWILLINGATE, NL

SOUNDING AND TOPOGRAPHIC SURVEY

Table with columns for date, name, and role. Includes dates like MAY 15, 2018 and names like P.H., approved.

722591 C1

LEGEND

- SYMBOLS: ADMIRALTY, ANCHOR BLOCK, BOUNDARY, etc.
LINEWORK: ANCHOR BLOCK, PROPERTY BOUNDARY, etc.

SURVEY NOTES

SURVEY PARTY CHIEF RICHARD HEALEY
SURVEY VESSEL ALUMINUM BOAT
SURVEY DATES BETWEEN JUNE 07, 2007 & SEPTEMBER 29, 2010
SOUNDING METHOD SINGLE TRANSDUCER
LAND SURVEY POSITION BY TRIMBLE 5700 GPS

SYMBOLS

- ADMIRALTY, ANCHOR BLOCK, BOUNDARY, etc.

LINEWORK

- ANCHOR BLOCK, PROPERTY BOUNDARY, etc.

CONTROL POINTS

DESCRIPTION: BRASS PLACQUE SET IN BEDROCK
PROVINCIAL BRASS PLACQUE SET IN CONCRETE DECK
X-CUT IN COVER OF MANHOLE

ALL SOUNDINGS & ELEVATIONS REFERRED TO CHS BM 916094 ELEV. 4.387 m

(BRASS PLACQUE SET IN CONCRETE DECK AT GOVT. WHARF IN TWILLINGATE).
SOUNDINGS TAKEN USING AWAUSSOUND 210 ECHO SOUNDER AND POSITIONED BY TRIMBLE DIFFERENTIAL GPS POSITIONING SYSTEM ON JUNE 07, 2007, NOV 23, 2009 & SEPTEMBER 29, 2010.

SOUNDINGS WERE REDUCED BY DISTANCE & RE-CHECKED FROM SOUNDING SPEED OF SOUND WAS OBTAINED USING TRIMBLE CHECK CORRECTION.

SOUNDINGS WERE REDUCED USING TRIMBLE CHECK CORRECTION.
SOUNDINGS WERE REDUCED USING HYDRAK MAX VERA.3.

ALL FIELD NOTES ARE IN TWILLINGATE 700S.

ALL FIELD NOTES ARE IN TWILLINGATE 700S.

COORDINATES FOR HORIZONTAL CONTROL ARE GIVEN ON THE UTM MAPPING

COORDINATES FOR HORIZONTAL CONTROL ARE GIVEN ON THE UTM MAPPING FORAL ZONE 21, USING THE NORTH AMERICAN DATUM OF 1983 (NAD83).

SOUNDINGS WERE REDUCED BY DISTANCE & RE-CHECKED FROM SOUNDING

SOUNDINGS WERE REDUCED BY DISTANCE & RE-CHECKED FROM SOUNDING SPEED OF SOUND WAS OBTAINED USING TRIMBLE CHECK CORRECTION.

SOUNDINGS WERE REDUCED USING TRIMBLE CHECK CORRECTION.

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ALL FIELD NOTES ARE IN TWILLINGATE 700S.

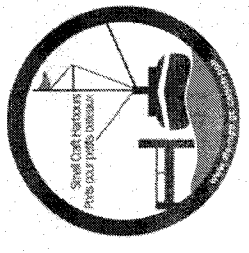


- SYMBOLS: ARCHITECTURE, ANCHOR BLOCK, ANCHOR, BENT, BRIDGE, CANAL, CONCRETE, ELEVATION, FENCE, FISH PLANT, GROUND, LAUNCH, LIFT, LIFT BRIDGE, MARSH, MOUND, NAVIGATION LIGHT, OBSTACLE, ROYAL CANADIAN MOUNTED POLICE, SAFETY POST, SHED, SIGN, SLOPE, TELEPHONE POLE, TREE, UTILITY POLE, VERTICAL CONTROL, WATER VALVE, WATER WHEEL, WOOD PILE.
- LINE TYPE: ANCHOR, CANAL, CONCRETE, FENCE, FISH PLANT, GROUND, LAUNCH, LIFT, LIFT BRIDGE, MARSH, MOUND, NAVIGATION LIGHT, OBSTACLE, ROYAL CANADIAN MOUNTED POLICE, SAFETY POST, SHED, SIGN, SLOPE, TELEPHONE POLE, TREE, UTILITY POLE, VERTICAL CONTROL, WATER VALVE, WATER WHEEL, WOOD PILE.

SURVEY NOTES
SURVEY PARTY CHIEF: RICHARD HEALEY
SURVEY VESSEL: ALUMINUM BOAT
SURVEY DATE(S): BETWEEN JUNE 07, 2007 & SEPTEMBER 29, 2010
SOUNDER TYPE: SINGLE TRANSDUCER
SOUNDER SETTING: 1500 MHz
SOUNDING SPEED: 1480 M/S
WAVELENGTH: 200 M
PRECISION: 1/1000 M
LAND SURVEY POSITION BY: TRIMBLE 5700 GPS
DATA TYPE/DISC(S): USED
CAD DRAWING FILE(S):
TIDAL REDUCTION SCHEME:
OFFICE PROCESSOR: EDIE BEARNS
DATE OF PROCESSING: OCTOBER 2010
MARK OF SOUNDING: 1/1000 M
MATRIX CELL WIDTH X LENGTH: 10.00 X 10.00 M
REDUCTION OF MATRIX CELLS:
CONTROL POINTS: EASTING, NORTHING, OLD ELEVATION
7662359, 6615244, 5502822, 224.125
8892334, 6612784, 5502136, 270.432
8892334, 6612784, 5502136, 270.432
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PWC 1-06, 6614389, 5502529, 270.432
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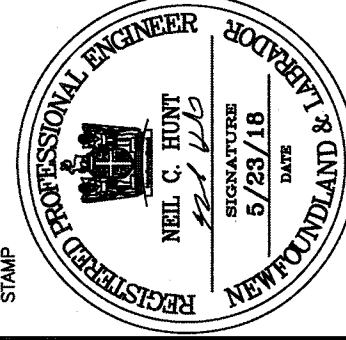
NOTES:
1. ALL SOLID WASTE MATERIAL SHALL BE TRANSPORTED TO AN APPROVED WASTE ACTIVITY CANNOT BE DISRUPTED AND FREE ACCESS MUST BE MAINTAINED TO THE AREA DURING CONSTRUCTION. CONTRACTOR TO ARRANGE FOR SUFFICIENT STORAGE OF MATERIALS ETC. CONTRACTOR TO MAKE ARRANGEMENTS FOR SPACE AND ACCESS WILL BE THE RESPONSIBILITY OF THE CONTRACTOR.
2. EXISTING SITE INFORMATION ON THE DRAWINGS SHALL NOT BE INTERFERED FOR "AS-BUILT" DRAWINGS. THE INFORMATION'S PRESENT ON THE DRAWINGS SHALL BE CONSIDERED ONLY. CONTRACTORS ARE ADVISED TO VISIT THE SITE TO ASSESS THE SCOPE OF WORK ASSOCIATED WITH THIS PROJECT.
3. ALL SOUNDINGS AND ELEVATIONS REFERRED TO CHS BM 9116094 ELEV. 4.3187 m (BRASS PLaque SET IN CONCRETE DECK AT GOVT. WHARF IN TWILLINGATE).
SOUNDINGS TAKEN USING NAVSOUND 210 ECHO SOUNDER AND POSITIONED BY TRIMBLE DIFFERENTIAL GPS POSITIONING SYSTEM ON JUNE 07, 2007, NOV. 23, 2009 & SEPTEMBER 29, 2010.
COORDINATES FOR HORIZONTAL CONTROL ARE GIVEN ON THE LITM. MAPPING BOARD, ZONE 21, USING THE NORTH AMERICAN DATUM OF 1983 (NAD83).
SOUNDINGS WERE REDUCED BY DISTANCE & RE-CHECKED FROM SOUNDING BEING CORRECTED FOR TIDE & BAR CHECK CORRECTION.
SOUNDING SPEED WAS 1480 M/S.
SOUNDINGS WERE REDUCED USING HYDRAC, MAX VERT. 4.3.
ALL FIELD NOTES ARE IN TWILLINGATE #209.





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

PROVINCE OF NEWFOUNDLAND
 PERMIT HOLDER
 The Permit Allows
 APN ENGINEERING INC.
 To install, Maintain, Repair, Upgrade, Operate, and Demolish
 in Newfoundland and Labrador.
 Permit No. as issued by APPROV. OFFICE.
 Valid to 31st Dec 2021.

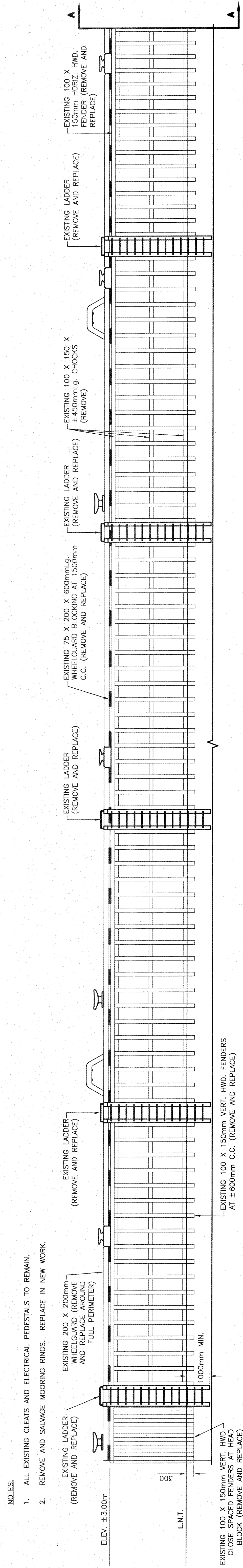


ISSUED FOR TENDER	5/16/18
revisions	date
project	project

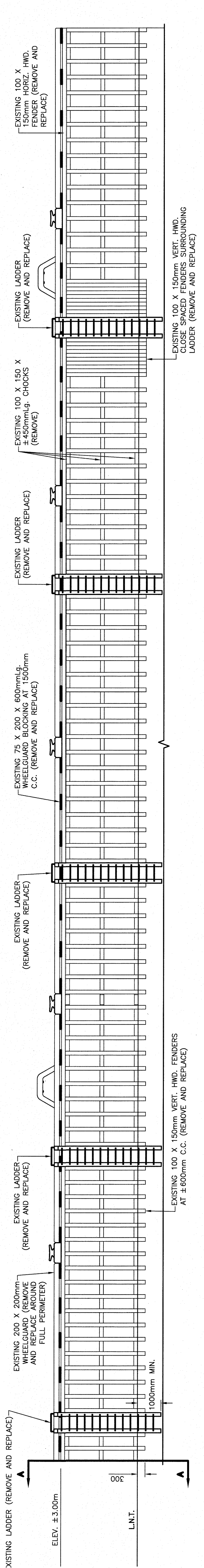
WHARF REPAIRS
 TWILLINGATE, NL

EXISTING ELEVATIONS

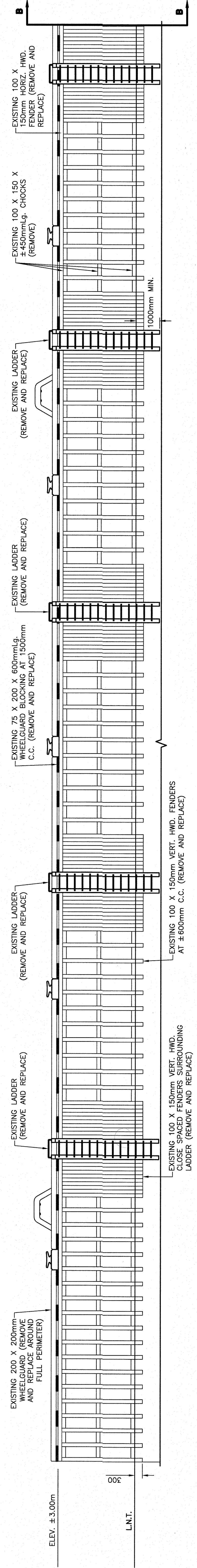
designed N.H.	conced
drawn P.H.	checked
date MAY 15, 2018	approved
date MAY 15, 2018	approved
client P.H.	approved
contractor P.H.	approved
project number 722591	no. of sheets
drawing no. C3	no. of sheets



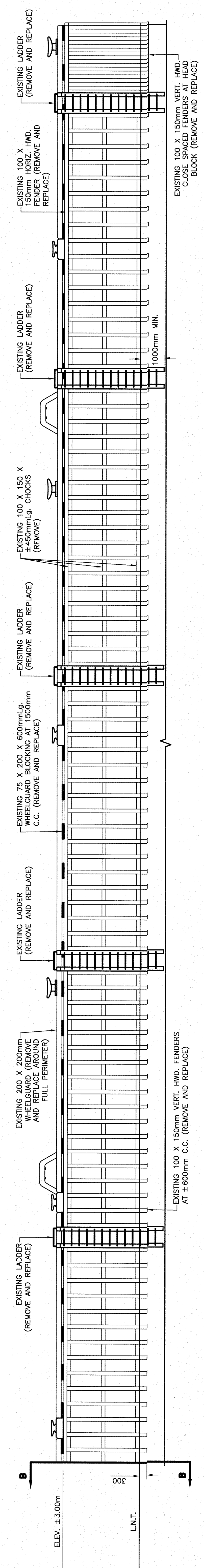
EXISTING ELEVATION - EAST SIDE (STATION 0+56.339 TO 0+112.68)



EXISTING ELEVATION - EAST SIDE (STATION 0+00 TO 0+56.339)



EXISTING ELEVATION - WEST SIDE (STATION 0+00 TO 0+56.339)



EXISTING ELEVATION - WEST SIDE (STATION 0+56.339 TO 0+112.68)

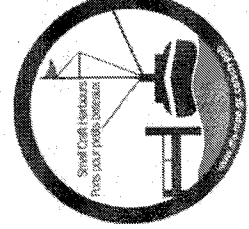
NOTES:
 1. ALL EXISTING CLEATS AND ELECTRICAL PEDESTALS TO REMAIN.
 2. REMOVE AND SALVAGE MOORING RINGS. REPLACE IN NEW WORK.

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 1. ALL EXISTING CLEATS AND ELECTRICAL PEDESTALS TO REMAIN.
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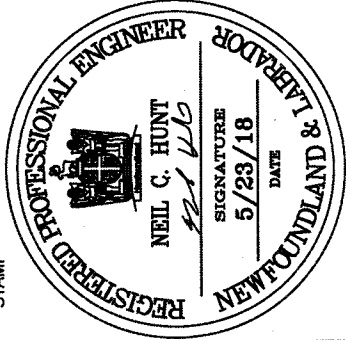
NOTES:
 1. ALL EXISTING CLEATS AND ELECTRICAL PEDESTALS TO REMAIN.
 2. REMOVE AND SALVAGE MOORING RINGS. REPLACE IN NEW WORK.

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
APY ENGINEERING INC.
Professional Engineering
in Newfoundland and Labrador
Registration No. 20182.
which is valid for the year 2018.

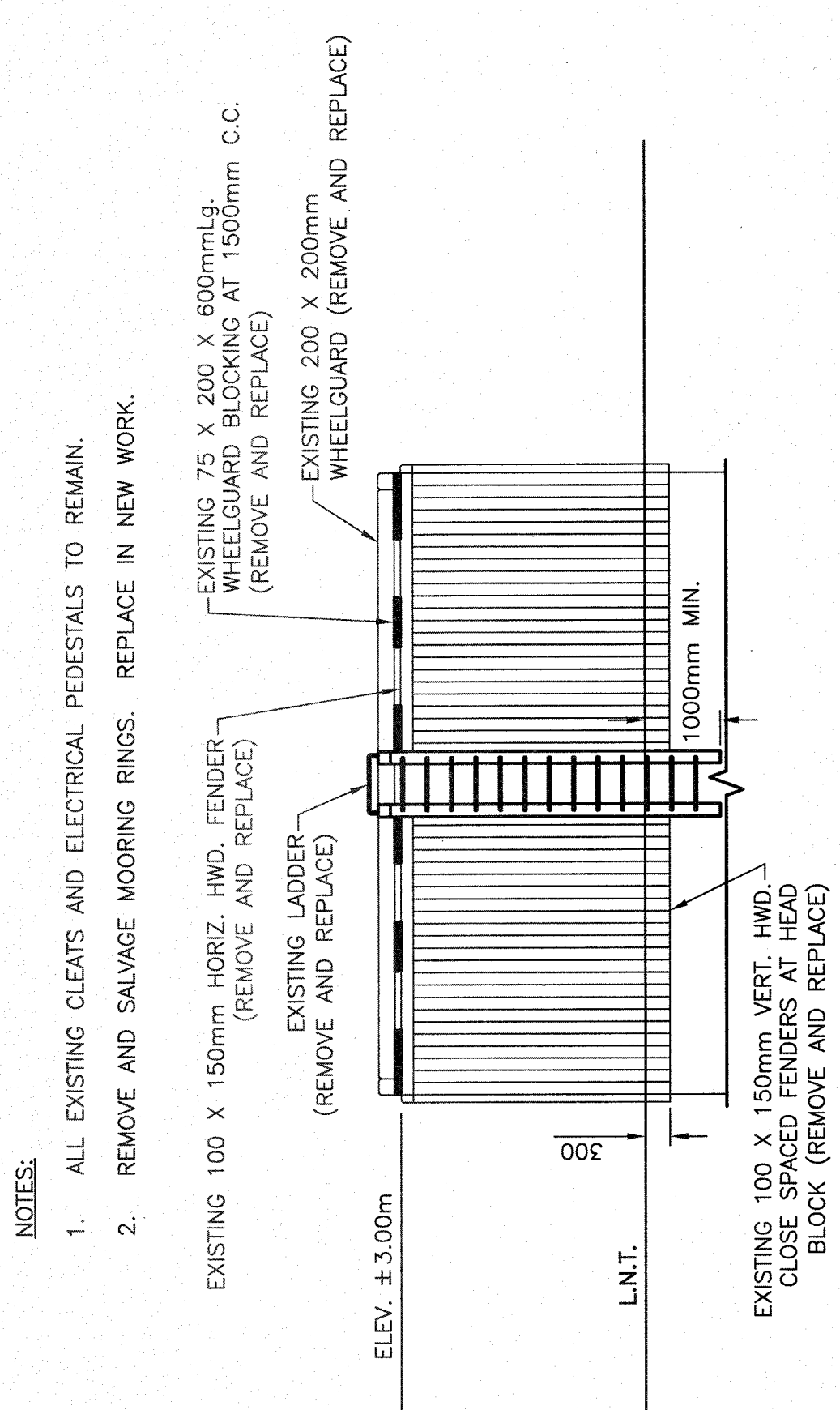


A	ISSUED FOR TENDER	5/16/18
revisions		date
project		

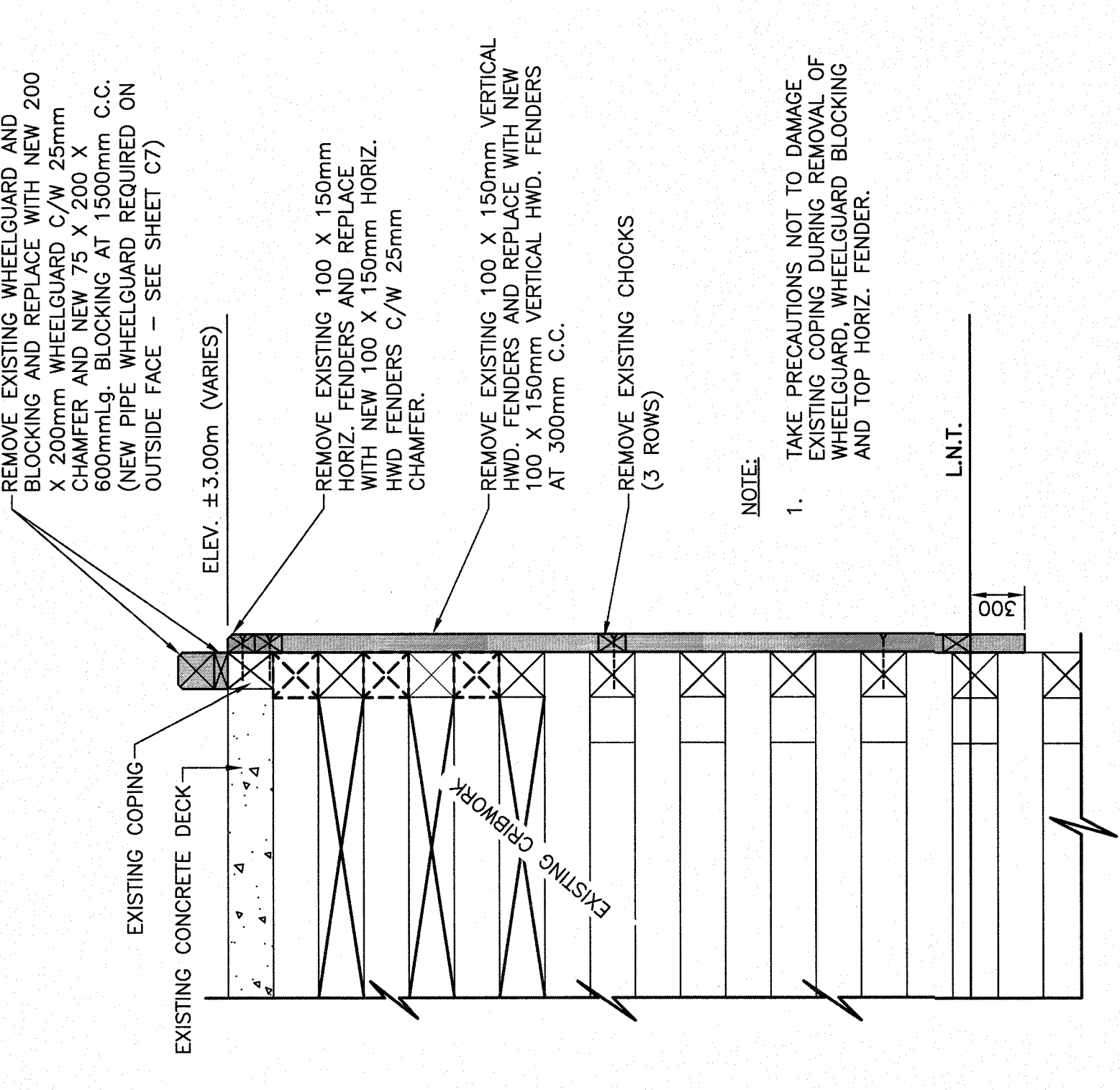
WHARF REPAIRS
TWILLINGATE, NL

drawing
detail
EXISTING ELEVATION
AND SECTION

designed N.H.	constr.
date MAY 15, 2018	
drawn P.H.	detail
date MAY 15, 2018	
approved	approval
Tender Project Manager	Submission
project number 722591	no. of print
drawing no. C4	no. of detail

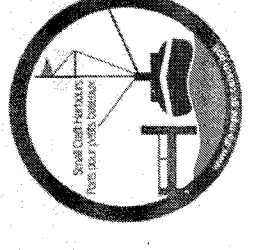


EXISTING ELEVATION - SOUTH SIDE
SCALE: 1:75



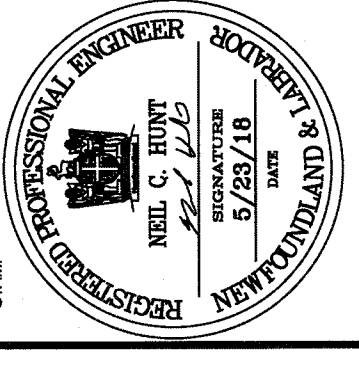
EXISTING SECTION
SCALE: 1:30

NOTE:
1. TAKE PRECAUTIONS NOT TO DAMAGE EXISTING COPING DURING REMOVAL OF WHEELGUARD. WHEELGUARD BLOCKING AND TOP HORIZ. FENDER.



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
ANY ENGINEERING INC.
To execute Professional Engineering
in Newfoundland and Labrador.
Permit No. as issued by APPRNT, 2018B.
Valid to valid for the year 2018.



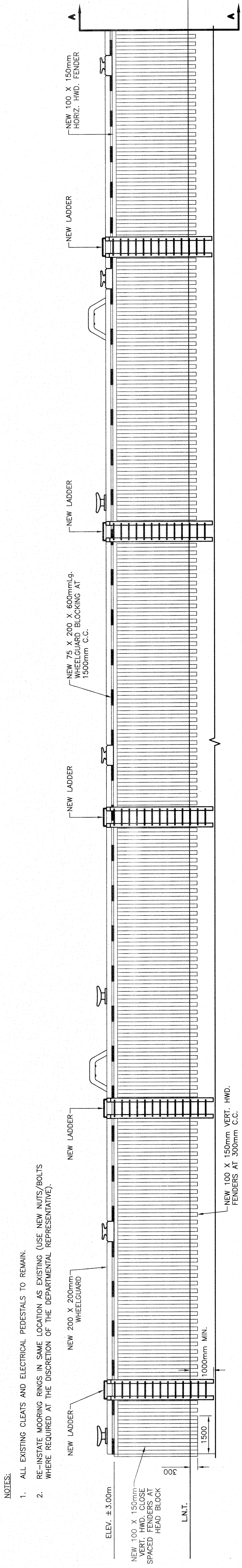
ISSUED FOR TENDER	5/16/18
revision	date
project	

WHARF REPAIRS
TWILLINGATE, NL

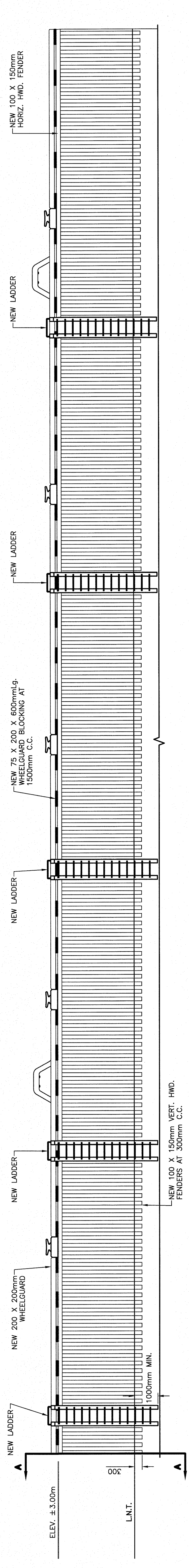
NEW ELEVATIONS

designed N.H.	conced
date	MAY 15, 2018
drawn P.H.	checked
date	MAY 15, 2018
approved	approved

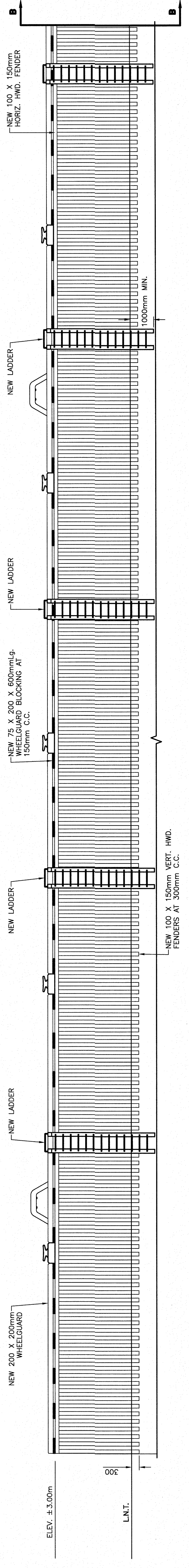
Tender	Paul Curran
USD project manager	
project number	722591
rev. no. on print	
drawing no.	C5



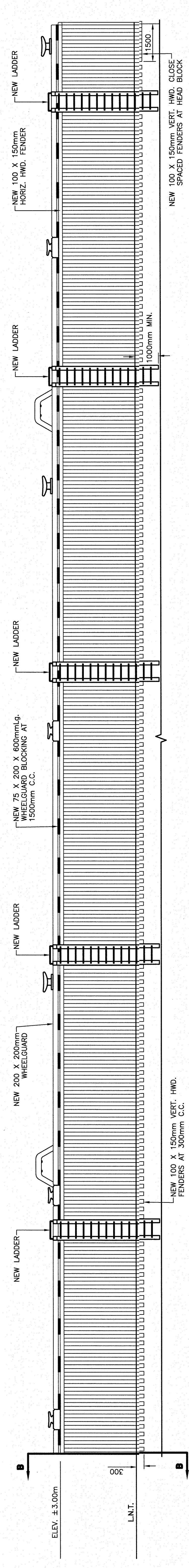
NEW ELEVATION - EAST SIDE (STATION 0+56.339 TO 0+112.68) 1/25



NEW ELEVATION - EAST SIDE (STATION 0+00 TO 0+56.339) 2/25



NEW ELEVATION - WEST SIDE (STATION 0+00 TO 0+56.339) 3/25



NEW ELEVATION - WEST SIDE (STATION 0+56.339 TO 0+112.68) 4/25

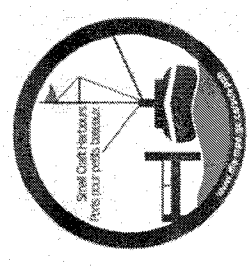
NOTES:
1. ALL EXISTING CLEATS AND ELECTRICAL PEDESTALS TO REMAIN.
2. RE-INSTATE MOORING RINGS IN SAME LOCATION AS EXISTING (USE NEW NUTS/BOLTS WHERE REQUIRED AT THE DISCRETION OF THE DEPARTMENTAL REPRESENTATIVE).

NOTES:
1. ALL EXISTING CLEATS AND ELECTRICAL PEDESTALS TO REMAIN.
2. RE-INSTATE MOORING RINGS IN SAME LOCATION AS EXISTING (USE NEW NUTS/BOLTS WHERE REQUIRED AT THE DISCRETION OF THE DEPARTMENTAL REPRESENTATIVE).

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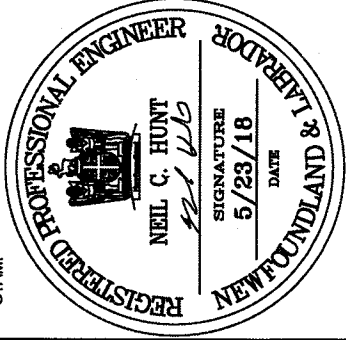
NOTES:
1. ALL EXISTING CLEATS AND ELECTRICAL PEDESTALS TO REMAIN.
2. RE-INSTATE MOORING RINGS IN SAME LOCATION AS EXISTING (USE NEW NUTS/BOLTS WHERE REQUIRED AT THE DISCRETION OF THE DEPARTMENTAL REPRESENTATIVE).

SMALL CRAFT HARBOURS



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

PROVINCE OF NEWFOUNDLAND
PERMIT HOLDER
This Permit Allows
APR ENGINEERING INC.
To practice Professional Engineering
in Newfoundland and Labrador.
The Permit Holder's name and
number shall be on all drawings
which is valid for the year 2018.



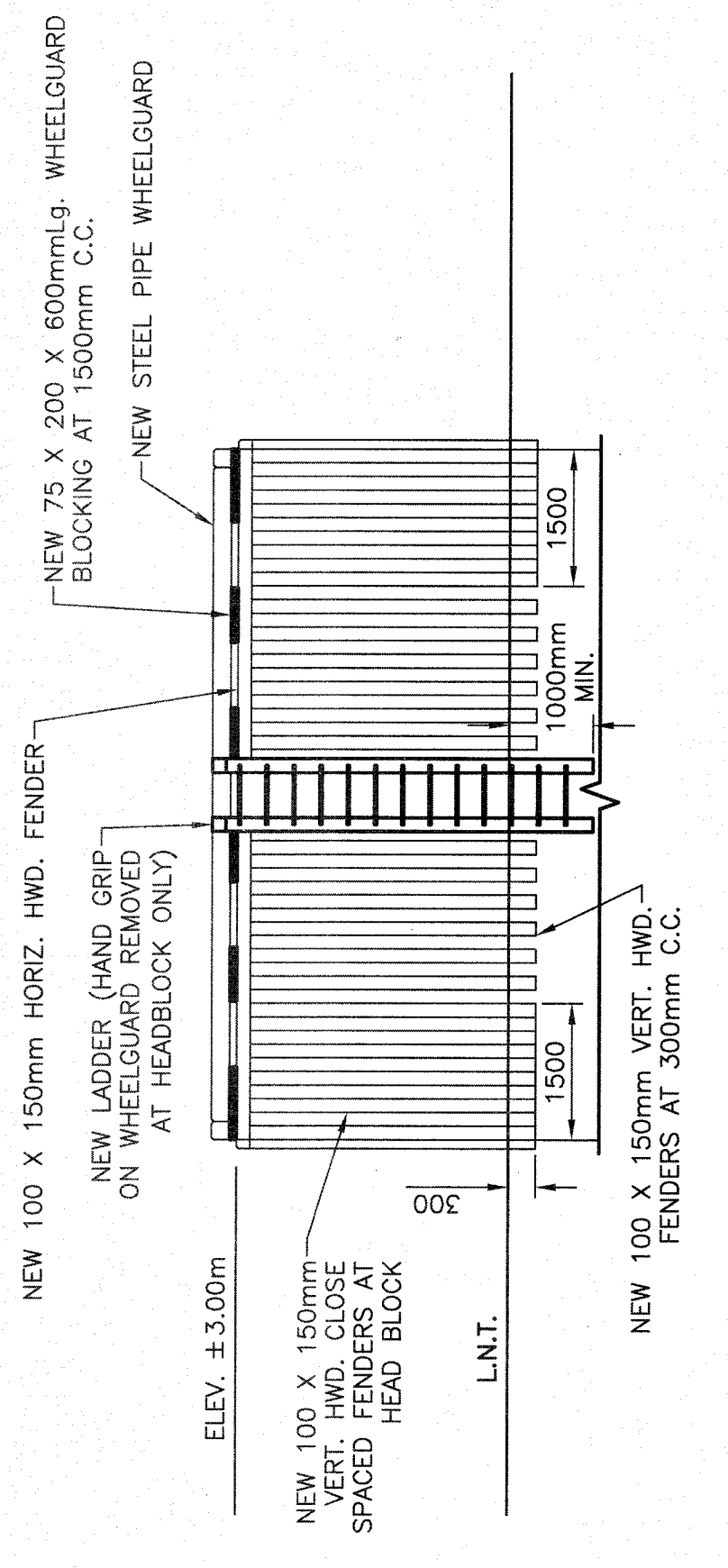
A.	ISSUED FOR TENDERS	5/16/18
revisions		date
project		

WHARF REPAIRS
TWILLINGATE, NL

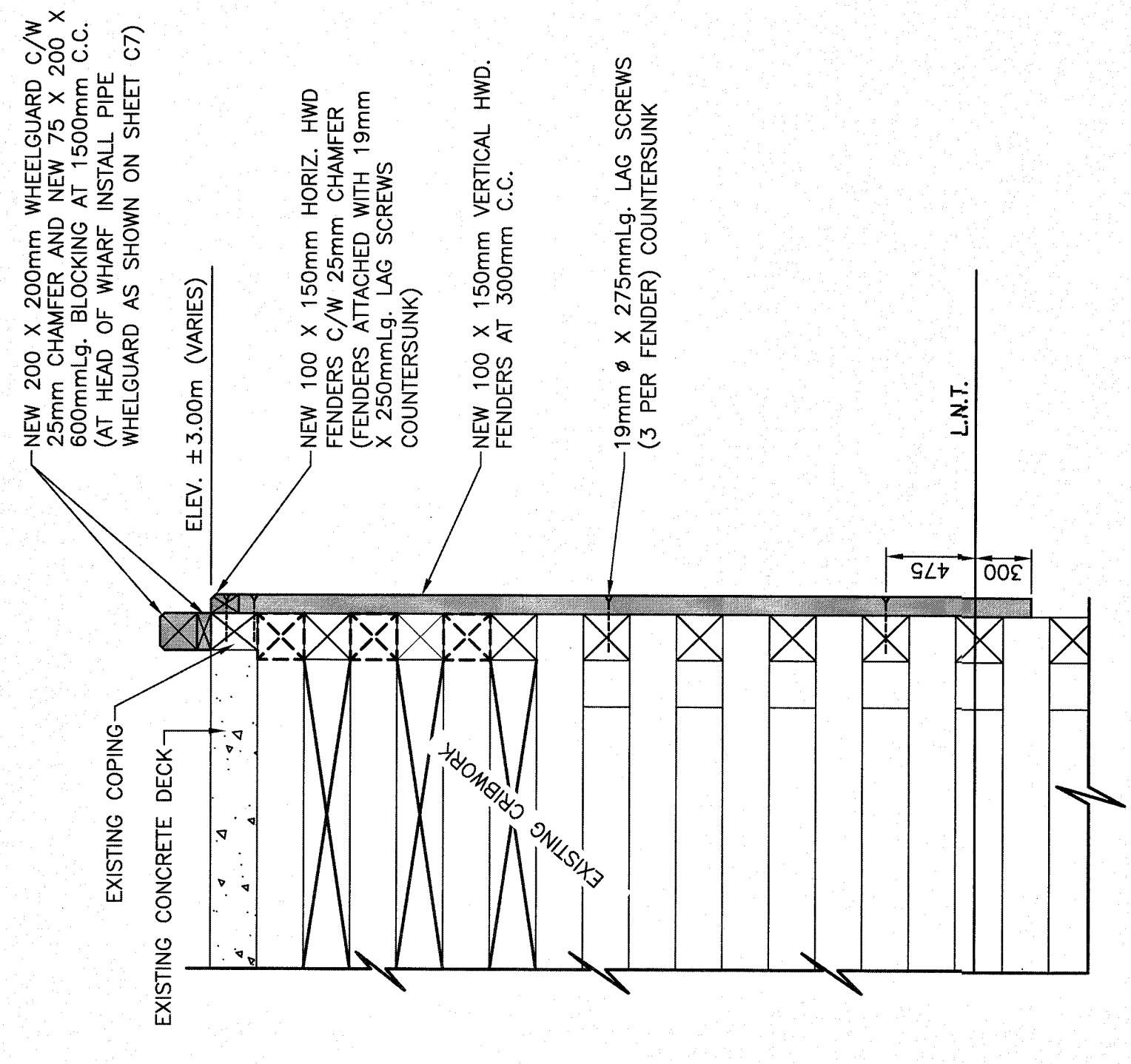
drawing
design
NEW ELEVATION AND SECTION

designed N.H.	constr.
date MAY 15, 2018	
drawn P.H.	checked
date MAY 15, 2018	approved
approved	
Tracer <i>Neil C. Hony</i>	Summation
DTO Project Manager	
project number 722591	no. of sheet
drawing no. C6	

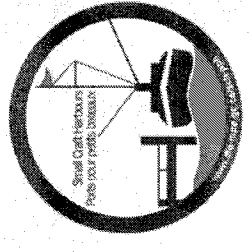
- NOTES:
- ALL EXISTING CLEATS AND ELECTRICAL PEDESTALS TO REMAIN.
 - RE-INSTATE MOORING RINGS IN SAME LOCATION AS EXISTING (USE NEW NUTS/BOLTS WHERE REQUIRED AT THE DISCRETION OF THE DEPARTMENTAL REPRESENTATIVE).



NEW ELEVATION - SOUTH SIDE
SCALE: 1:75
2 | 6

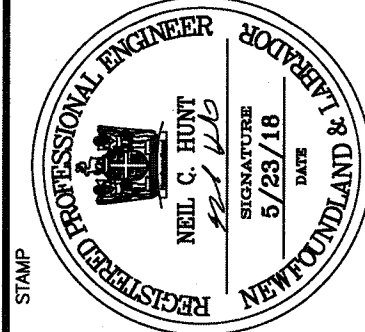


NEW SECTION (TYPICAL)
SCALE: 1:30
2 | 6



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
ART ENGINEERING INC.
To Carry Out the Work of Designing
and Constructing the Wharf
at Twillingate and Ladder
Permit No. as issued by A.P.P.N. 20882.
Valid in full for the year 2018.



ISSUED FOR TENDER	5/16/18
revision	date
project	project

WHARF REPAIRS
TWILLINGATE, NL

drawing	design
DETAILS	

designed N.H.	checked
date MAY 15, 2018	date
drawn P.H.	designed
date MAY 15, 2018	date
approved	approved
drawn Paul Curran	drawn
project number 722591	project number
no. of sheets	no. of sheets
722591	722591
C7	C7

