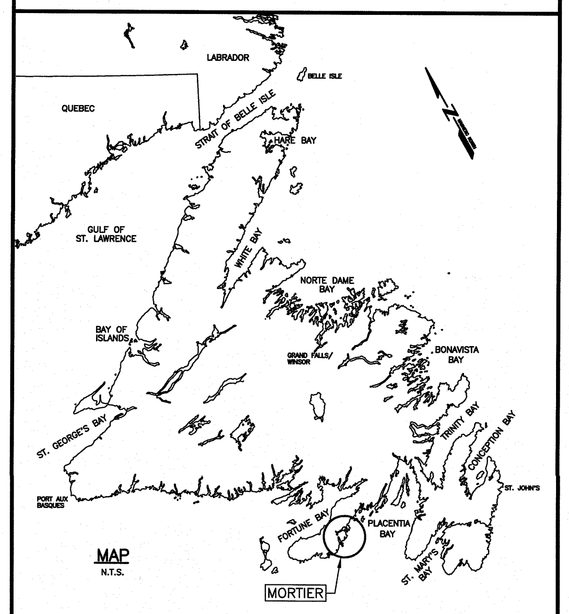
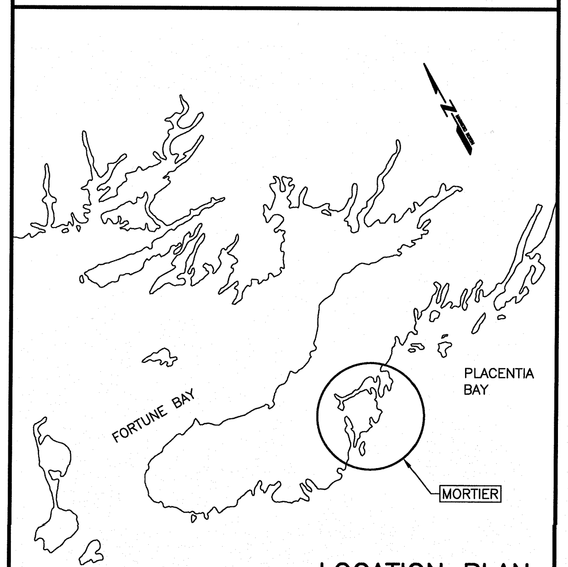
FISHERIES AND OCEANS
CANADA

SMALL CRAFT HARBOURS



MAP
N.T.S.



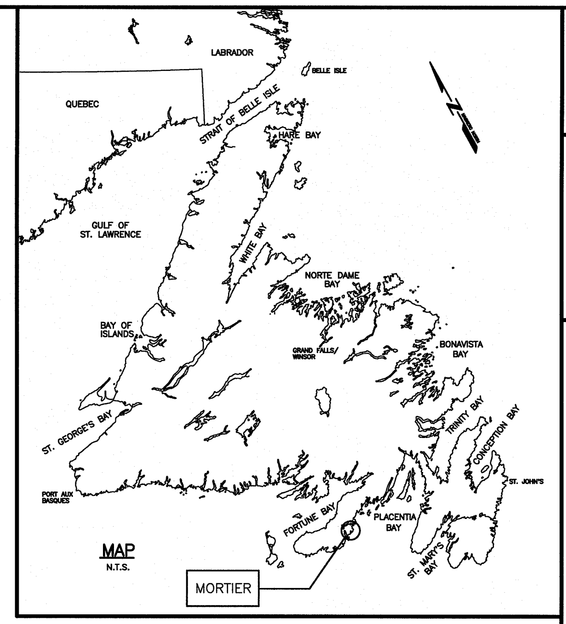
LOCATION PLAN
N.T.S.

HARBOUR DIVESTITURE
MORTIER
NEWFOUNDLAND AND LABRADOR

PROJECT No. 721640

LIST OF DRAWINGS:

C1 OF 7 EXISTING SITE PLAN
C2 OF 7 DEMOLITION PLAN
C3 OF 7 NEW SITE PLAN
C4 OF 7 WHARF LAYOUT
C5 OF 7 ELEVATIONS
C6 OF 7 SECTIONS
C7 OF 7 DETAILS



MAP
N.T.S.

LEGEND

SYMBOLS

ACQUACULTURE
ANCHOR BLOCK
BOLLARD
BOREHOLE
BOUNDARY MARKER
CARD POSITION BUOY
CATCH BASIN
CLEAT
CULVERT
DERRICK
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
MARKOLE
MARSH
MAST/TOWER
NAVIGATION LIGHT
OBSERVED BUOY
OBSERVED SPAR BUOY
PIPE PILE
RANGE LIGHT
SAFETY POST
SEWER OUTFLOW PIPE
SIGN
TELEPHONE
TELEPHONE POLE
TIDE GUAGE/STAFF
TREE
UTILITY POLE
VERTICAL CONTROL
WATER TAP/OUTLET
WATER VALVE
WATER WELL
WOOD PILE

LINETYPE

ARMOUR STONE
CL RAILROAD
DRAIN PIPE
EDGE ROAD / SHOULDER
FENCE LINE
FLOATING WAVEBREAK
GUARD RAIL
HIGH WATER MARK
LOW WATER MARK
MARSH OUTLINE
PROPERTY BOUNDARY
RANGE LIGHT EXTENSION
RETAINING WALL
RIPRAP
TOE OF BANK
TREE LINE
UNDERGROUND CABLE

NOTES

SURVEY PARTY CHIEF RICHARD HEALEY
SURVEY VESSEL ALUMINUM BOAT
SURVEY DATE(S) AUGUST 17–18,2015

SOUNDER TYPE: SINGLE TRANSDUCER
SOUNDER SETTING MIN/INST **VEL. OF SOUND** 1520 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 2015

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
PWC 3–84	642938.64	5216495.50	+3.97 m	SPIKE IN A LARGE BOULDER
PWC 1–2015	642942.32	5216551.28	+3.23 m	IRON PIN IN GRAVEL NEAR GOV'T WHARF
PWC 2–2015	642899.76	5216601.66	+2.65 m	NAIL SET IN BEDROCK

ALL SOUNDINGS & ELEVATIONS IN METRES.

ALL SOUNDINGS & ELEVATIONS REFERRED TO PWC 3–84 ELEV. +3.97 m (SPIKE IN LARGE BOULDER) AND WAS ESTIBLISHED BY WATER LEVEL TRANSFER FROM CHS BM "VICK" ELEV 3.978m AT MARYSTOWN.

SOUNDINGS TAKEN USING NAVISOUND 210 ECHO SOUNDER AND POSITIONED BY TRIMBLE R7 GNSS DIFFERENTIAL GPS POSITIONING SYSTEM BETWEEN AUGUST 17–18,2015 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 FERRYLAND BOOK #241.

Fisheries and Oceans Canada / Pêches et Océans Canada

SMALL CRAFT HARBOURS

NOTES:

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

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PERMIT HOLDER
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project / projet

HARBOUR DIVESTITURE

MORTIER, NL

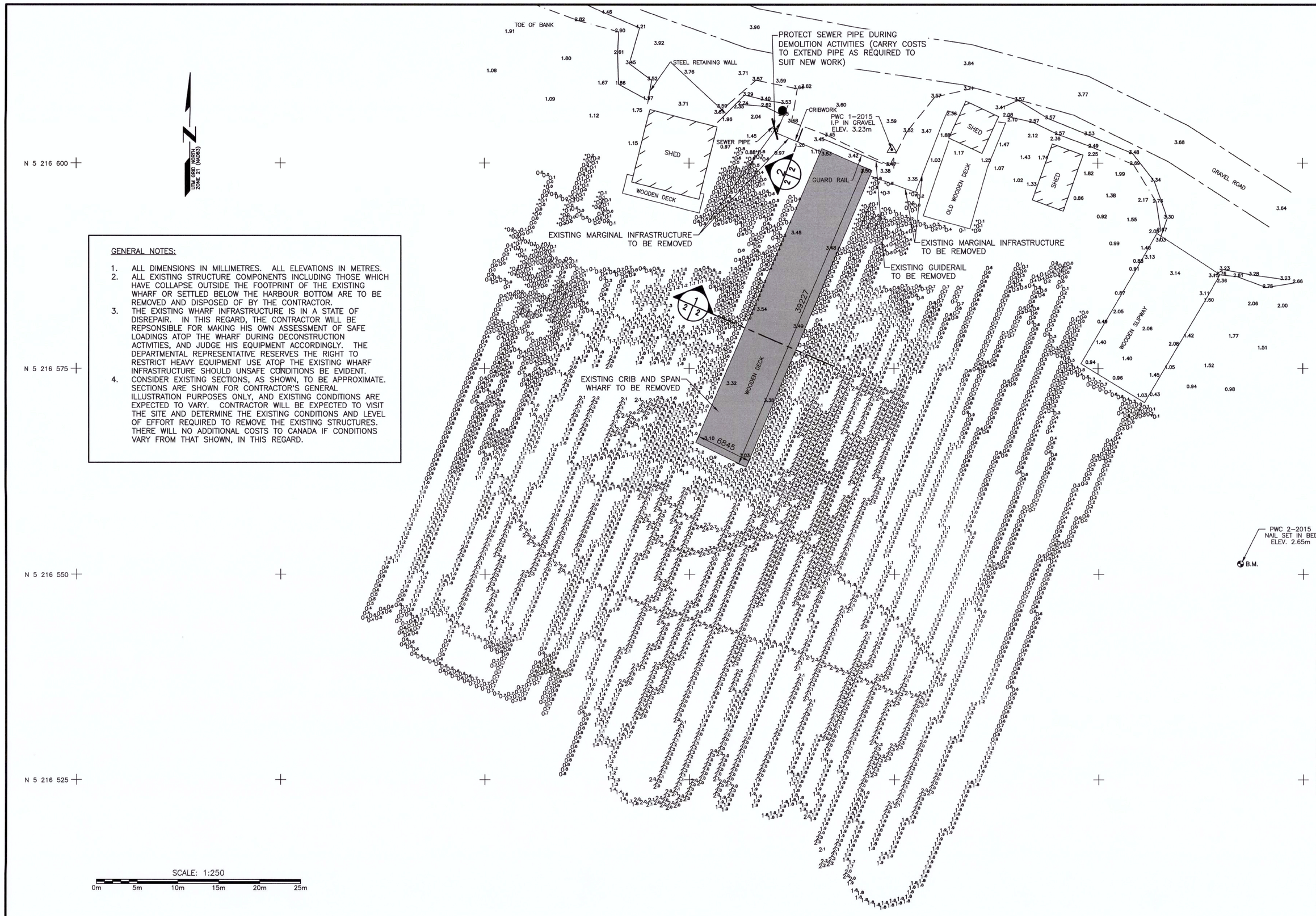
drawing / dessin

EXISTING SITE PLAN

designed N.H. / concu
date JANUARY 31, 2016
drawn P.H. / dessine
date JANUARY 31, 2016
approved / approuve
Tender / Soumission
DFO Project Manager
project number / no. du projet 721640
drawing no. / no. du dessin C1

Plot Scale: PLOT_SCALE

EDRM Document No.



GENERAL NOTES:

1. ALL DIMENSIONS IN MILLIMETRES. ALL ELEVATIONS IN METRES.
2. ALL EXISTING STRUCTURE COMPONENTS INCLUDING THOSE WHICH HAVE COLLAPSE OUTSIDE THE FOOTPRINT OF THE EXISTING WHARF OR SETTLED BELOW THE HARBOUR BOTTOM ARE TO BE REMOVED AND DISPOSED OF BY THE CONTRACTOR.
3. THE EXISTING WHARF INFRASTRUCTURE IS IN A STATE OF DISREPAIR. IN THIS REGARD, THE CONTRACTOR WILL BE REPSONSIBLE FOR MAKING HIS OWN ASSESSMENT OF SAFE LOADINGS ATOP THE WHARF DURING DECONSTRUCTION ACTIVITIES, AND JUDGE HIS EQUIPMENT ACCORDINGLY. THE DEPARTMENTAL REPRESENTATIVE RESERVES THE RIGHT TO RESTRICT HEAVY EQUIPMENT USE ATOP THE EXISTING WHARF INFRASTRUCTURE SHOULD UNSAFE CONDITIONS BE EVIDENT.
4. CONSIDER EXISTING SECTIONS, AS SHOWN, TO BE APPROXIMATE. SECTIONS ARE SHOWN FOR CONTRACTOR'S GENERAL ILLUSTRATION PURPOSES ONLY, AND EXISTING CONDITIONS ARE EXPECTED TO VARY. CONTRACTOR WILL BE EXPECTED TO VISIT THE SITE AND DETERMINE THE EXISTING CONDITIONS AND LEVEL OF EFFORT REQUIRED TO REMOVE THE EXISTING STRUCTURES. THERE WILL NO ADDITIONAL COSTS TO CANADA IF CONDITIONS VARY FROM THAT SHOWN, IN THIS REGARD.

LEGEND

SYMBOLS

ACQUACULTURE, ANCHOR BLOCK, BOLLARD, BOREHOLE, BOUNDARY MARKER, CARD POSITION BUOY, CATCH BASIN, CLEAT, CULVERT, DEBRICK, 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 SPAR BUOY, PIPE PILE, RANGE LIGHT, SAFETY POST, SEWER OUTFLOW PIPE, SIGN, TELEPHONE, TELEPHONE POLE, TIDE GUAGE/STAFF, TREE, UTILITY POLE, VERTICAL CONTROL, WATER TAK/OUTLET, WATER VALVE, WATER WELL, WOOD PILE

LINETYPE

ARMOUR STONE, CL RAILROAD, DRAIN PIPE, EDGE ROAD / SHOULDER, FENCE LINE, FLOATING WAVEBREAK, GUARD RAIL, HIGH WATER MARK, LOW WATER MARK, MARSH OUTLINE, PROPERTY BOUNDARY, RANGE LIGHT EXTENSION, RETAINING WALL, RIPRAP, TOE OF BANK, TREE LINE, UNDERGROUND CABLE

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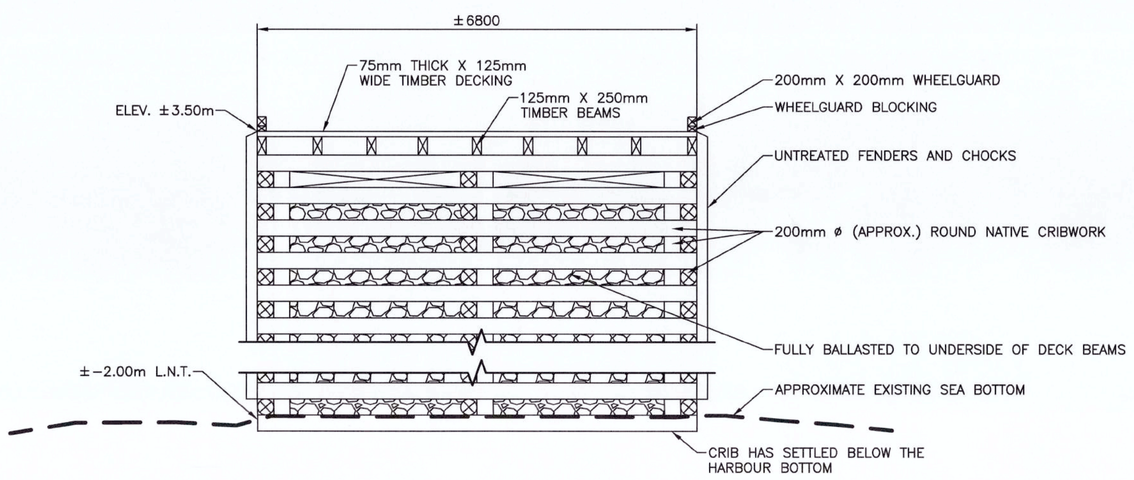
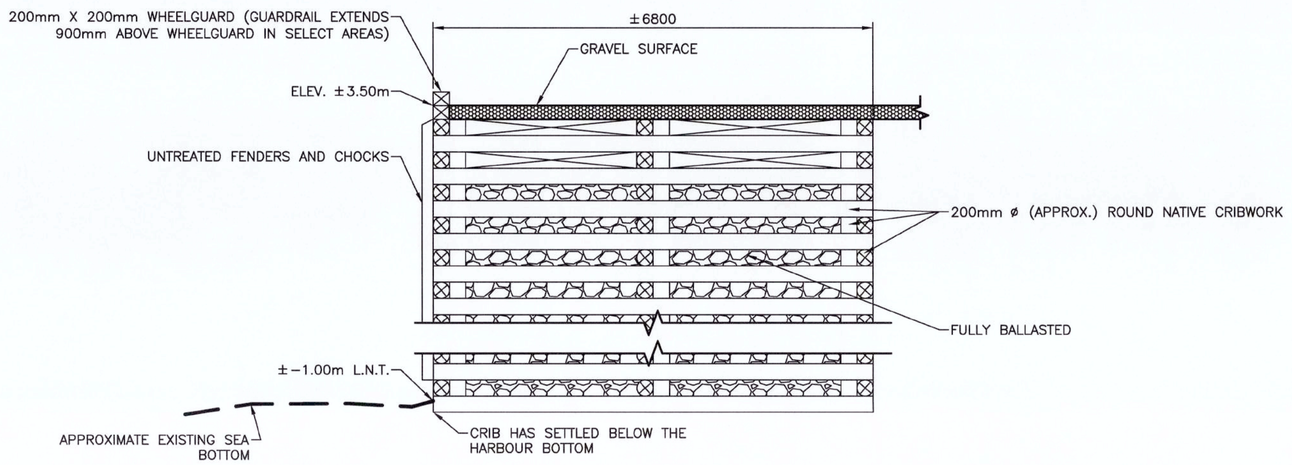


DEMOLITION SECTION AT WHARF (1/2 | 2/2)
SCALE: N.T.S.



DEMOLITION SECTION AT MARGINAL (2/1 | 1/1)
SCALE: N.T.S.

Fisheries and Oceans Canada / Pêches et Océans Canada

SMALL CRAFT HARBOURS

NOTES:

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revisions		date
B	ISSUED FOR TENDER	31/01/16
A	ISSUED FOR REVIEW	20/12/15

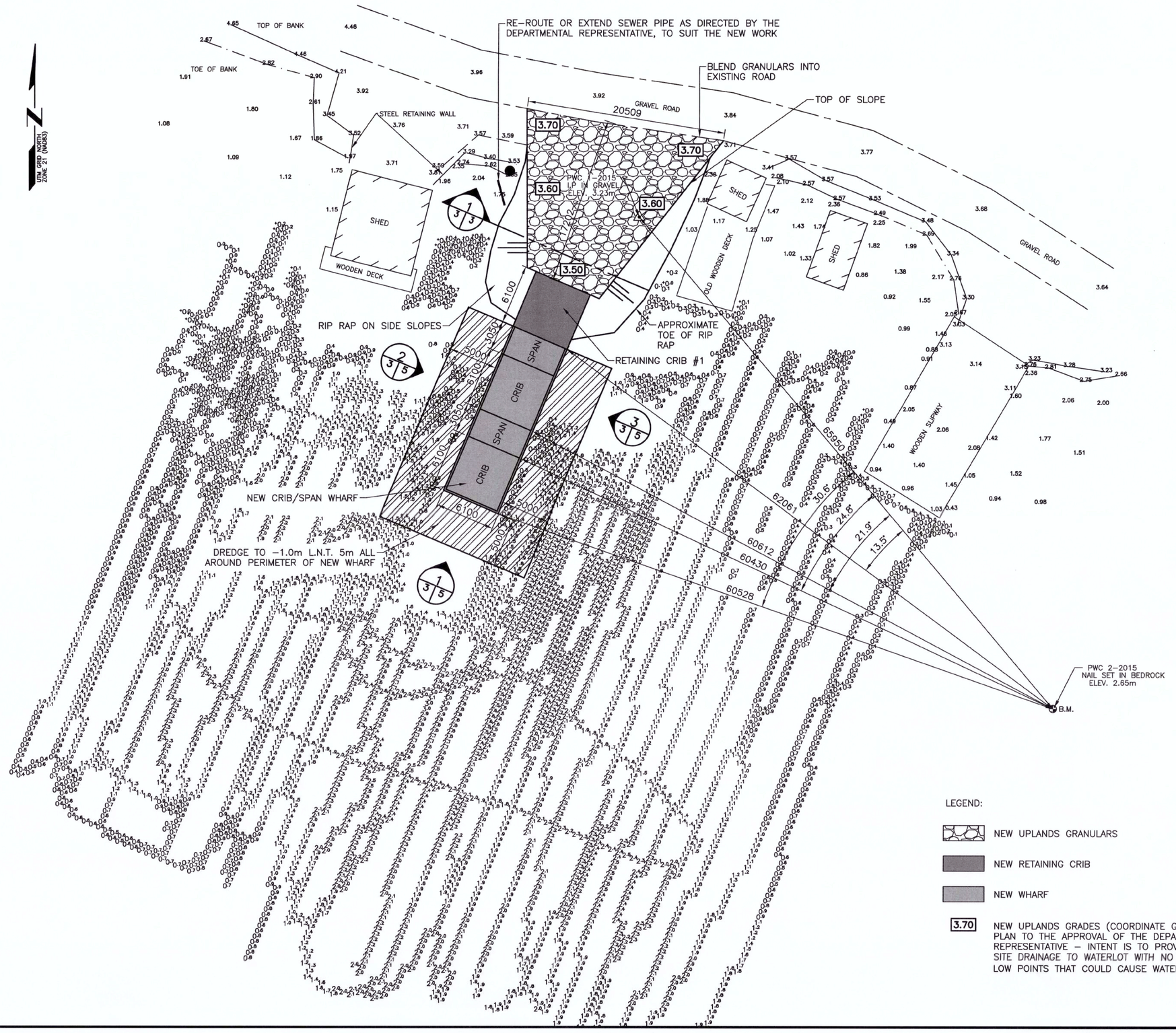
project / projet
HARBOUR DIVESTITURE
MORTIER, NL

drawing / dessin
DEMOLITION PLAN

designed N.H. / concu
date JANUARY 31, 2016
drawn P.H. / dessine
date JANUARY 31, 2016
approved / approuve
Tender / Soumission
DFO Project Manager
project number / no. du projet 721640
drawing no. / no. du dessin C2

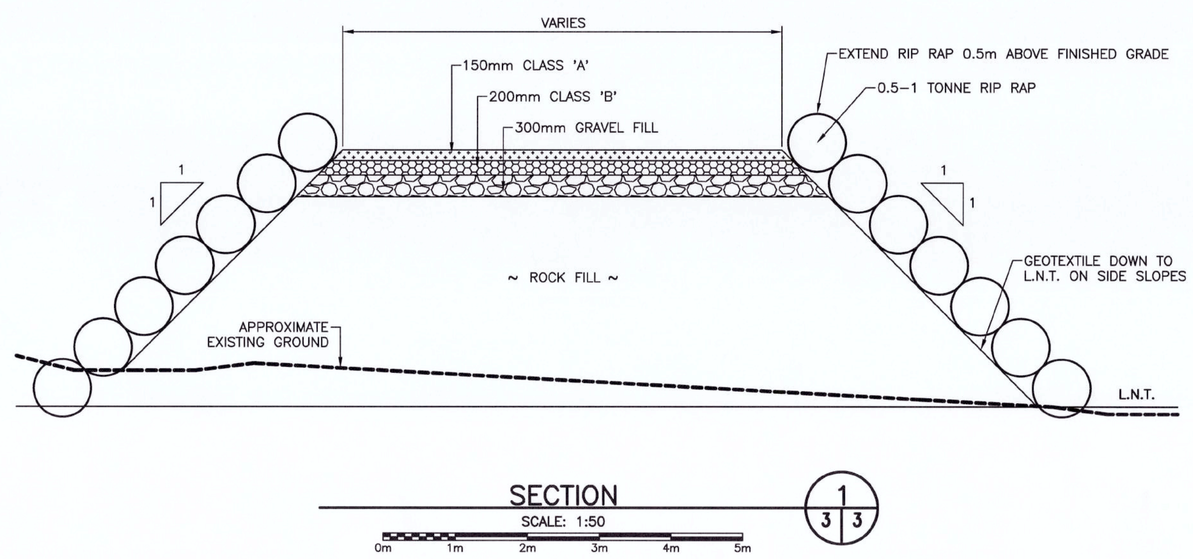
Plot Scale: PLOT_SCALE

EDRM Document No.



LEGEND:

- NEW UPLANDS GRANULARS
- NEW RETAINING CRIB
- NEW WHARF
- 3.70 NEW UPLANDS GRADES (COORDINATE GRADING PLAN TO THE APPROVAL OF THE DEPARTMENTAL REPRESENTATIVE – INTENT IS TO PROVIDE POSITIVE SITE DRAINAGE TO WATERLOT WITH NO HIGH OR LOW POINTS THAT COULD CAUSE WATER PONDING)



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SMALL CRAFT HARBOURS

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HARBOUR DIVESTITURE
MORTIER, NL

drawing / dessin
NEW SITE PLAN

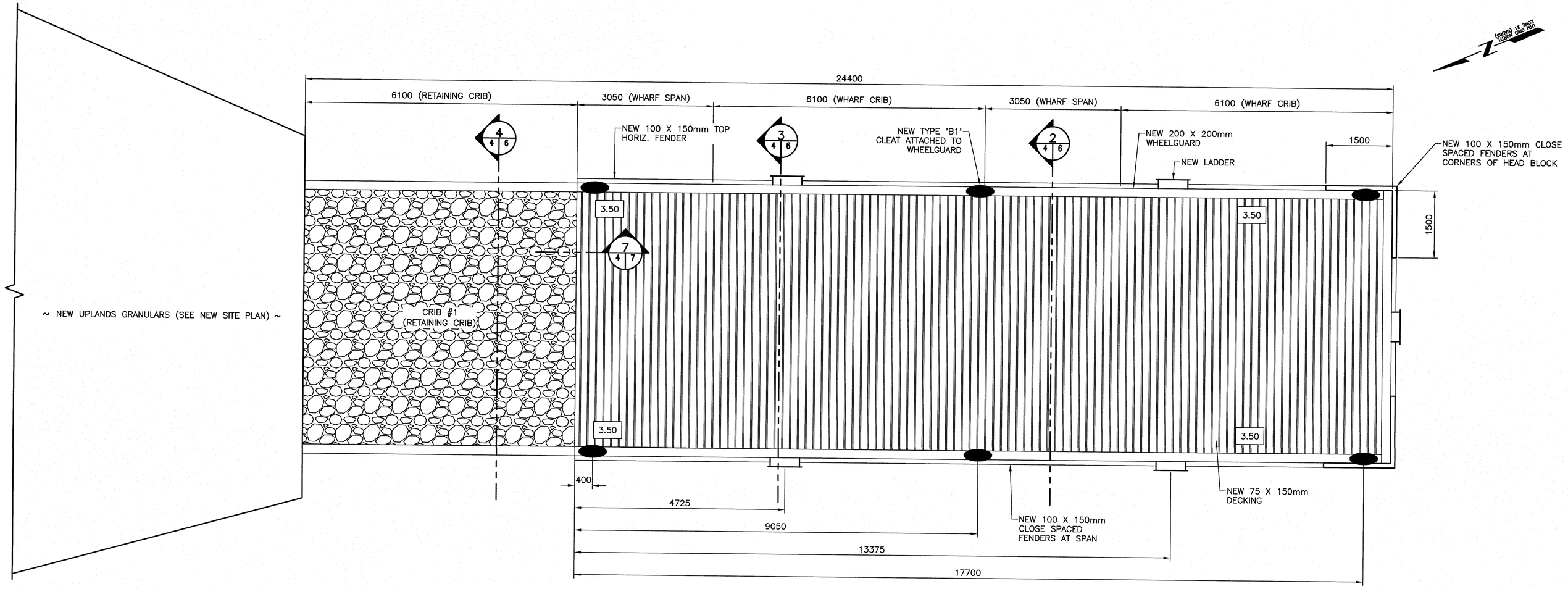
designed N.H. / concu
date JANUARY 31, 2016
drawn P.H. / dessine
date JANUARY 31, 2016
approved / approuve
Tender / Soumission
DFO Project Manager
project number / no. du projet
721640
drawing no. / no. du dessin
C3

EDRM Document No.

Plot Scale: PLOT_SCALE

LEGEND:

- TYPE 'B1' CLEAT ATTACHED TO WHEELGUARD
- LADDER
- 3.50 GRADES



WHARF LAYOUT

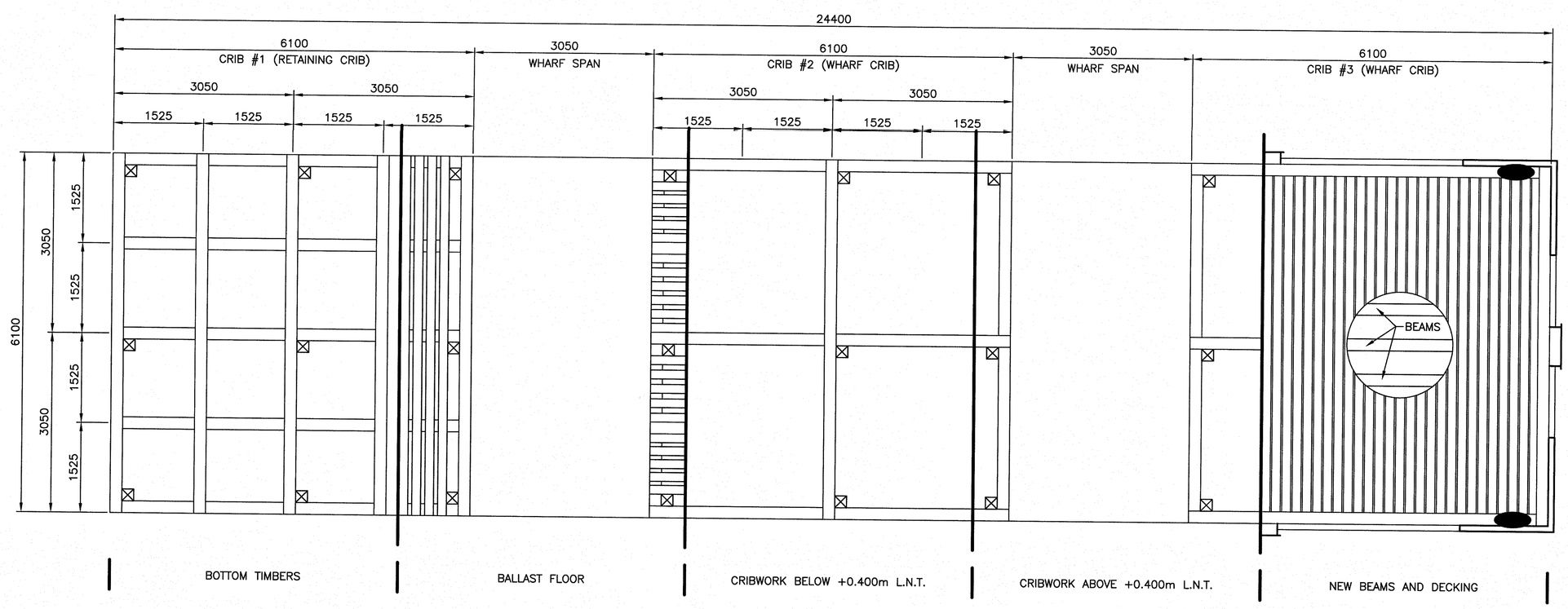
SCALE: 1:50

0m 1m 2m 3m 4m 5m

1 / 4 4

NOTE:

1. MARRY CRIBS 1 AND 2 AS SPECIFIED.



WHARF LAYOUT

SCALE: 1:50

0m 1m 2m 3m 4m 5m

2 / 4 4

Fisheries and Oceans Canada / Pêches et Océans Canada

SMALL CRAFT HARBOURS

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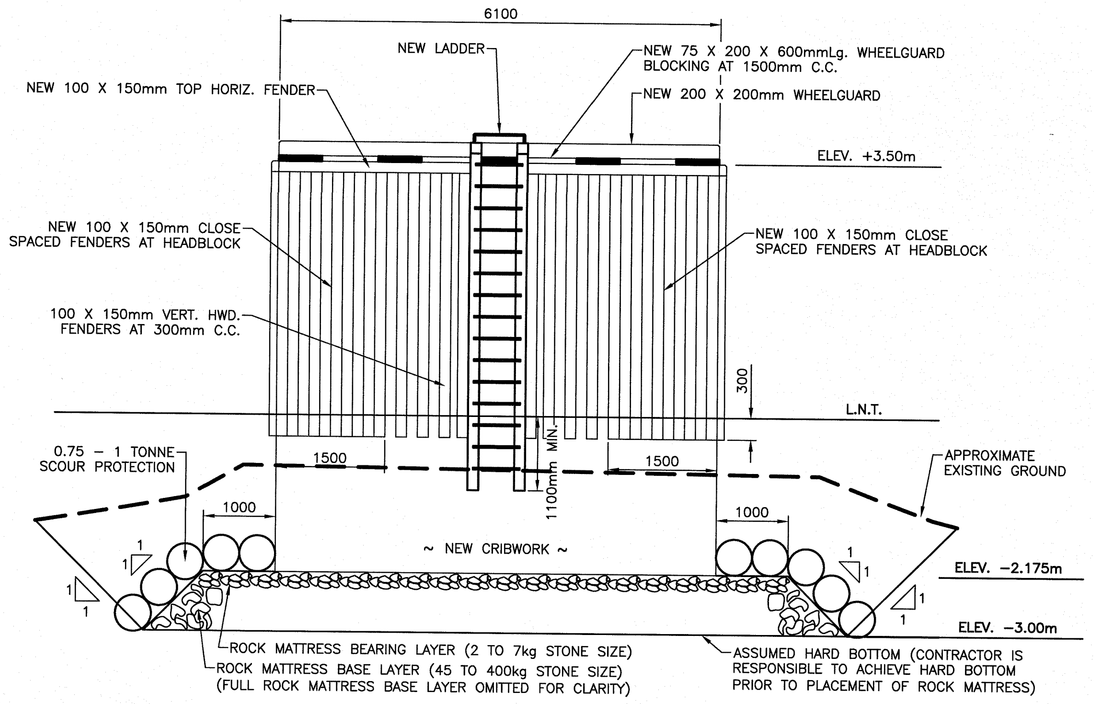
MORTIER, NL

drawing / dessin
WHARF LAYOUT

designed / concu: N.H.
date: JANUARY 31, 2016
drawn / dessine: P.H.
date: JANUARY 31, 2016
approved / approuve:
Tender / Soumission: DFO Project Manager
project number / no. du projet: 721640
drawing no. / no. du dessin: C4

Plot Scale: PLOT_SCALE

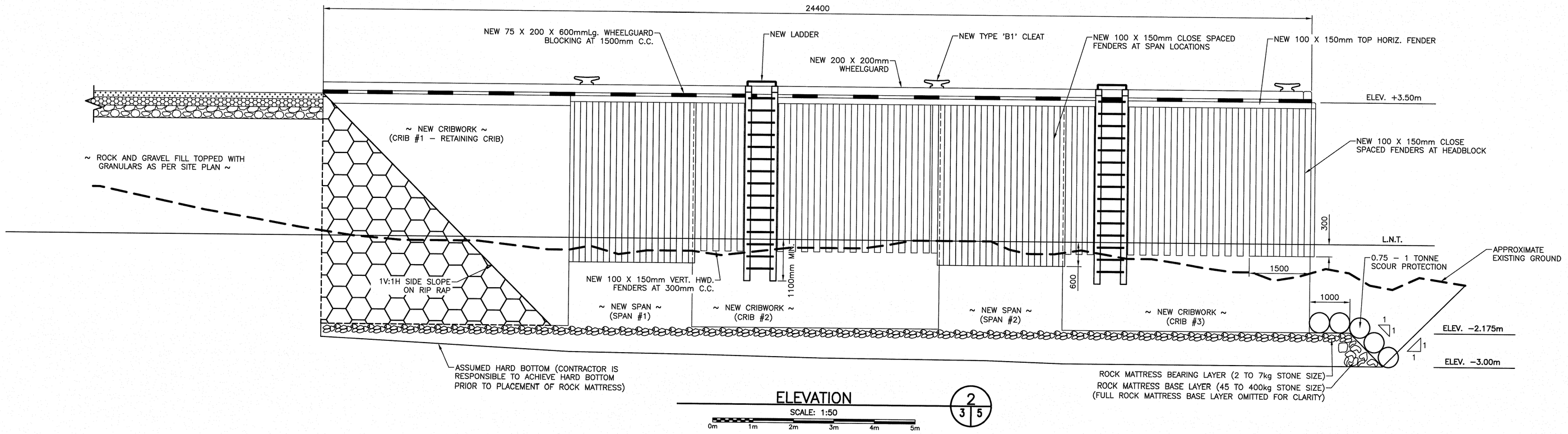
EDRM Document No.



ELEVATION 1 (3 | 5)

SCALE: 1:50

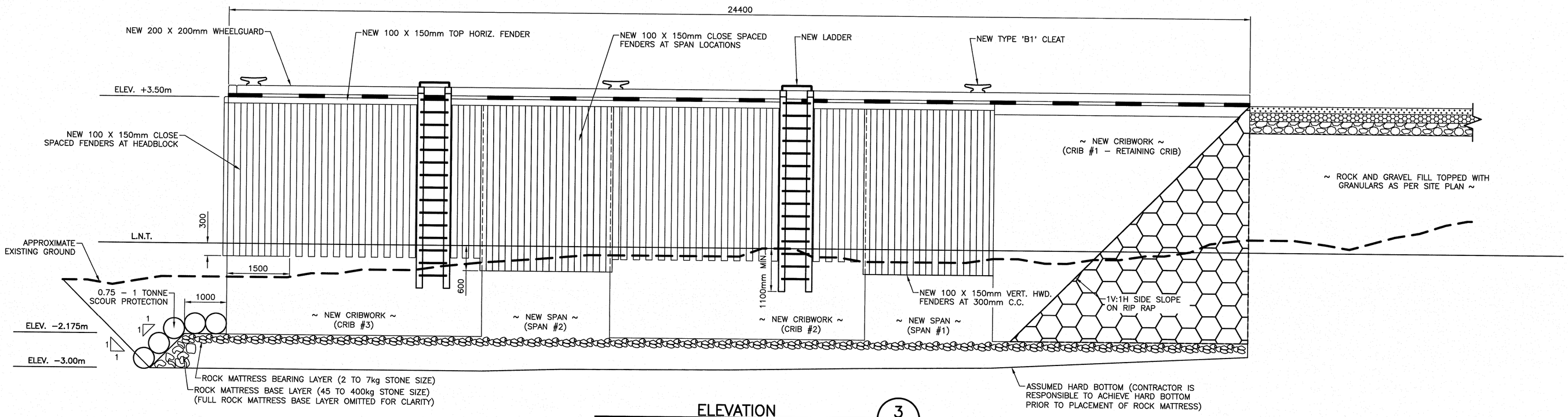
0m 1m 2m 3m 4m 5m



ELEVATION 2 (3 | 5)

SCALE: 1:50

0m 1m 2m 3m 4m 5m



ELEVATION 3 (3 | 5)

SCALE: 1:50

0m 1m 2m 3m 4m 5m

Plot Scale: PLOT_SCALE

Fisheries and Oceans Canada / Pêches et Océans Canada

SMALL CRAFT HARBOURS

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project / projet: HARBOUR DIVESTITURE MORTIER, NL

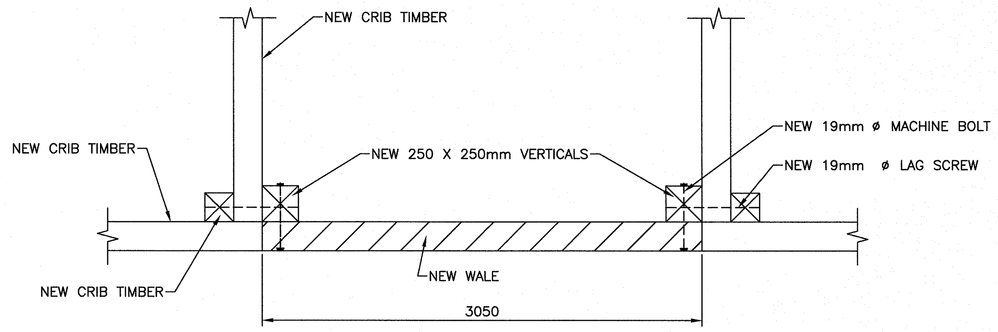
drawing / dessin: ELEVATIONS

designed / concu: N.H.
date: JANUARY 31, 2016
drawn / dessine: P.H.
date: JANUARY 31, 2016
approved / approuve:
Tender / Soumission: DFO Project Manager
project number / no. du projet: 721640
drawing no. / no. du dessin: C5

EDRM Document No.

NOTE:

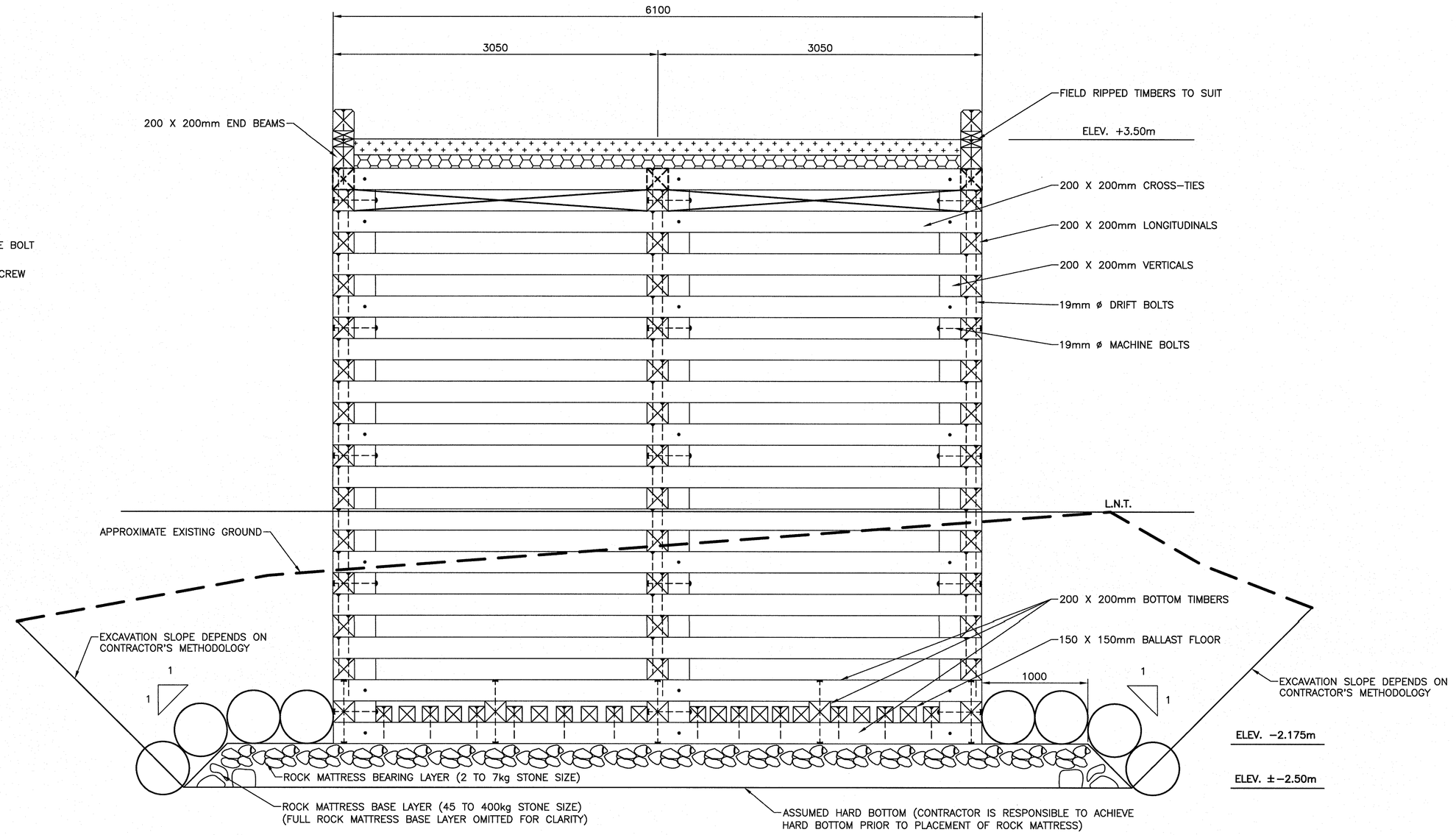
1. FENDERING OMITTED FOR CLARITY.



DETAIL AT SPAN (EACH SIDE) 1/6 6

SCALE: N.T.S.

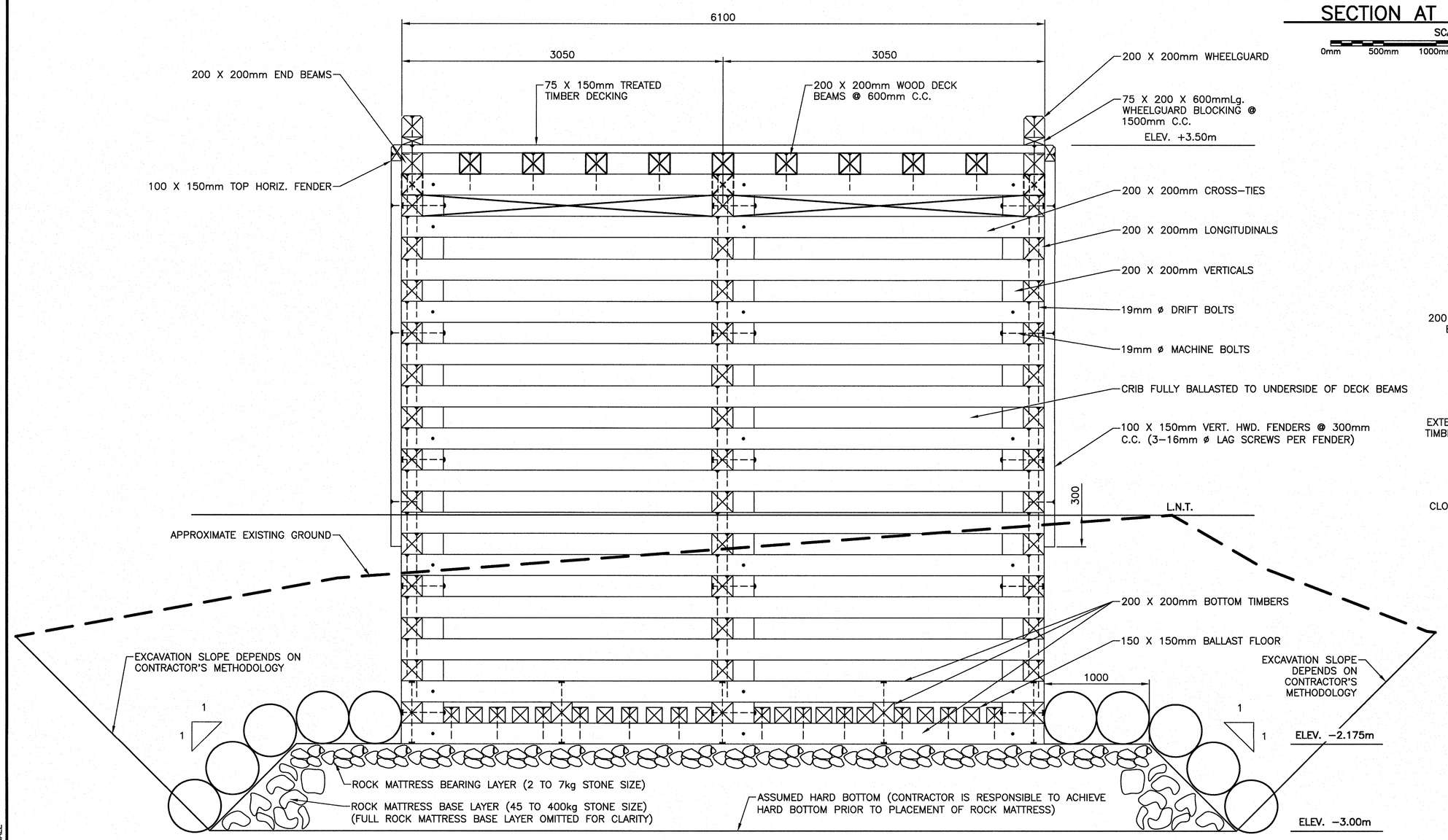
THE CONTRACTOR SHALL BE RESPONSIBLE TO PLACE ROCK MATTRESS/CRIBWORK ON HARD BOTTOM. THE CONTRACTOR SHALL DEMONSTRATE THROUGH THE USE OF EXCAVATION/DREDGING EQUIPMENT OR OTHER MEANS, THAT SUFFICIENT MATERIAL HAS BEEN REMOVED TO ENSURE ROCK MATIRESS/CRIBWORK WILL COME TO REST ON HARD BOTTOM. ONCE THE CONTRACTOR HAS DETERMINED THAT HARD BOTTOM HAS BEEN ACHIEVED THROUGH EXCAVATION/DREDGING EQUIPMENT, THE CONTRACTOR SHALL THOROUGHLY PROBE THE AREA IN A MINIMUM 1.0m X 1.0m GRID TO CONFIRM THAT ALL LOOSE AND SOFT UNSOUND SOILS HAVE BEEN REMOVED TO HARD BOTTOM. ALL PROBING ACTIVITIES TO BE COMPLETED BY DIVERS USING A 15mm DIAMETER X 2000mm STEEL ROD DRIVEN WITH A 2.5kg HAMMER. UNLESS OTHERWISE DIRECTED BY THE DEPARTMENTAL REPRESENTATIVE, HARD BOTTOM IS ACHIEVED WHEN THE PROBE CANNOT PENETRATE MORE THAN 400mm INTO THE UNDERLYING SOILS, WITHIN THE FOOTPRINT OF THE AREA TO RECEIVE ROCK MATTRESS/CRIBWORK. ALL WORK TO BE OVERSEEN BY THE ONSITE INSPECTOR. IF THE PROBE PENETRATIONS EXCEED 400mm, THEN THE CONTRACTOR SHALL BE RESPONSIBLE TO CONTINUE EXCAVATING/DREDGING TO A DEPTH WHICH HARD BOTTOM IS REACHED AND RE-PROBE TO ACHIEVE THE REQUIREMENTS NOTED ABOVE. THE CONTRACTOR AND THE DEPARTMENTAL REPRESENTATIVE SHALL AGREE ON SITE AS TO WHEN THE DEPTHS REQUIRED TO REACH HARD BOTTOM ARE MET.



SECTION AT RETAINING CRIB 4/6 4

SCALE: 1:25

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



SECTION AT WHARF CRIB 3/6 4

SCALE: 1:25

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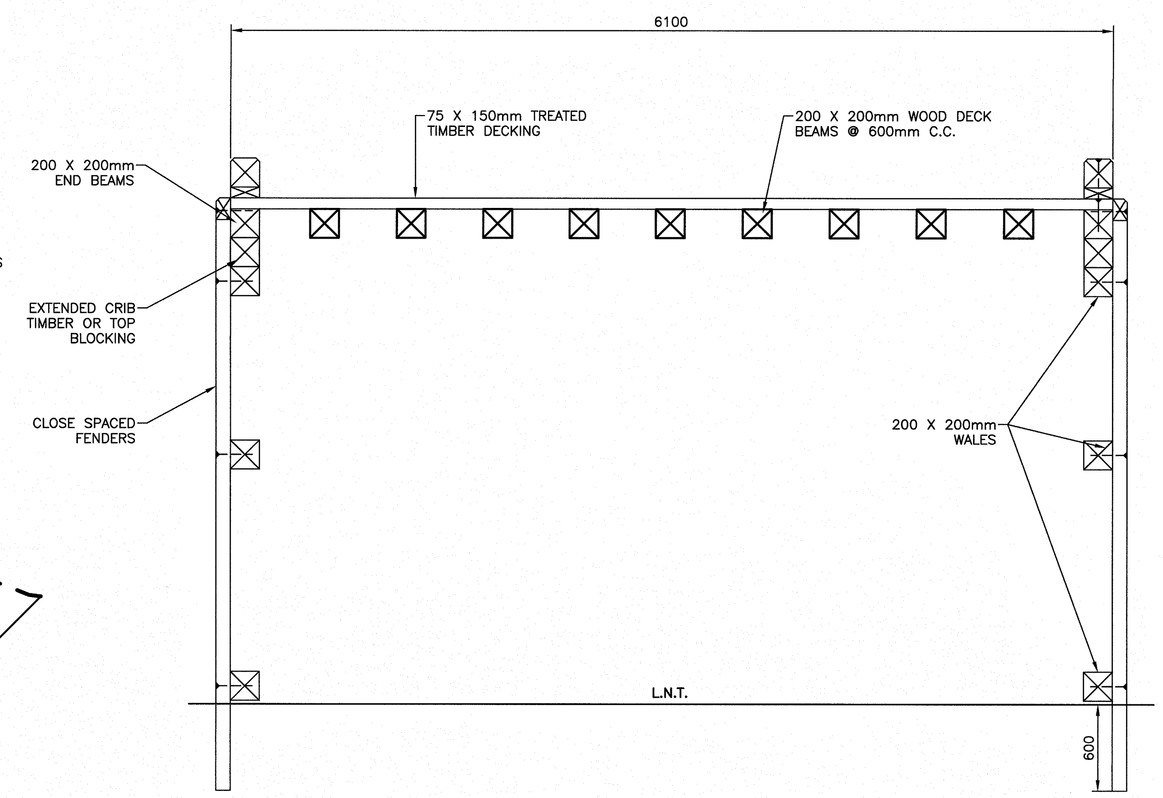

SECTION AT SPAN 2/6 4

SCALE: 1:25

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

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SMALL CRAFT HARBOURS

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PERMIT HOLDER
This Permit Allows
AFN ENGINEERING INC.
To practice Professional Engineering in Newfoundland and Labrador.
Permit No. as issued by APEGNL F0292
which is valid for the year 2016

STAMP
REGISTERED PROFESSIONAL ENGINEER
NEIL C. HUNT
SIGNATURE
31/01/16
DATE
NEWFOUNDLAND & LABRADOR

revisions		date
B	ISSUED FOR TENDER	31/01/16
A	ISSUED FOR REVIEW	20/12/15

project / projet

HARBOUR DIVESTITURE

MORTIER, NL

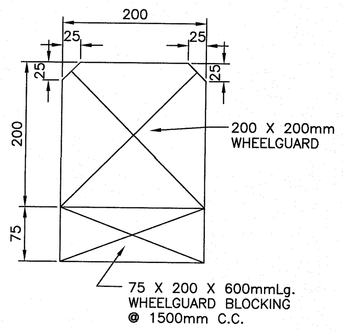
drawing / dessin

SECTIONS

designed N.H. / concu
date JANUARY 31, 2016
drawn P.H. / dessine
date JANUARY 31, 2016
approved / approuve
Tender / Soumission
DFO Project Manager
project number / no. du projet 721640
drawing no. / no. du dessin C6

EDRM Document No.

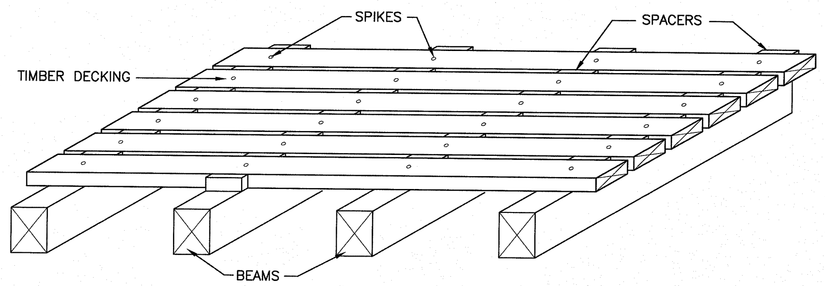
Plot Scale: PLOT_SCALE



WHEELGUARD DETAIL (1 / 7 7)

SCALE: 1:5

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



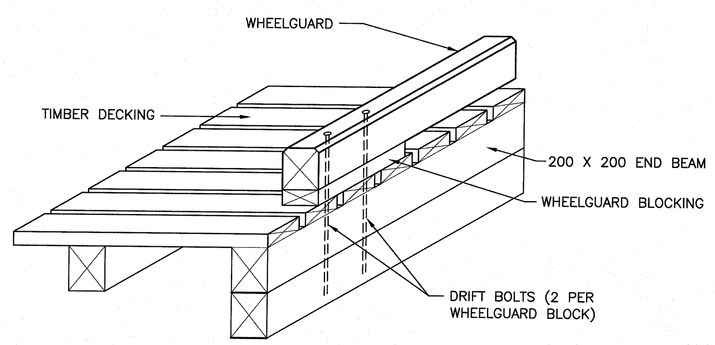
NOTE:

1. DECKING TO BE IN ONE COMPLETE LENGTH FOR ENTIRE WIDTH OF CRIB. ONE (1) SINGLE NAIL IN CENTER BEAMS, TWO (2) DOUBLE NAILS AT EXTERIOR BEAMS.

TIMBER DECK NAILING DETAIL (2 / 7 7)

SCALE : 1:20

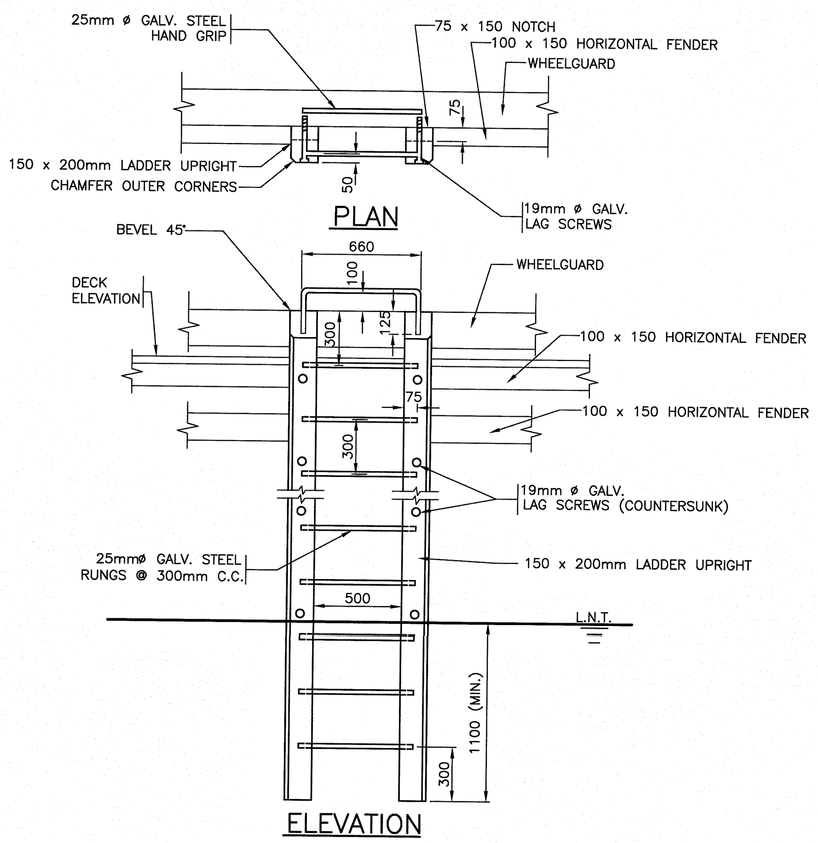
0mm 500mm 1000mm 1500mm 2000mm 2500mm



WHEELGUARD ON TIMBER DECK (3 / 7 7)

SCALE : 1:20

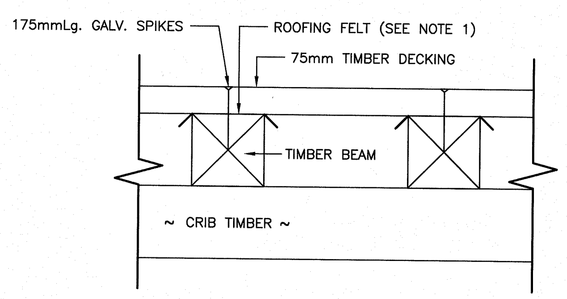
0mm 500mm 1000mm 1500mm 2000mm 2500mm



LADDER DETAIL (5 / 7 7)

SCALE : 1:20

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



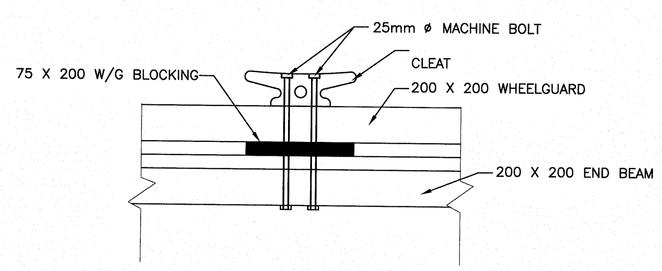
NOTE:

1. ROOFING FELT TO BE PLACED ALONG TOP OF ALL BEAMS, FULL LENGTH, FOR WIDTH OF BEAMS AND EXTENDING MIN. 50mm OUT OVER EACH EDGE. FELT TO BE SECURED TO THE TOP OF TIMBER WITH ROOFING CEMENT FOR FULL LENGTH.

DECK DETAIL (4 / 7 7)

SCALE : 1:10

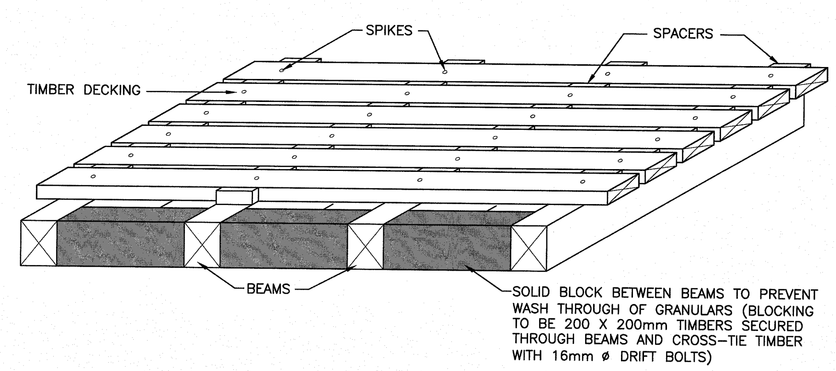
0mm 100 200 300 400 500 600 700 800 900 1000mm



TYPE "B1" CLEAT ATTACHED TO WHEELGUARD (6 / 7 7)

SCALE : 1:20

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



BLOCKING DETAIL (7 / 4 7)

SCALE : 1:20

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

Fisheries and Oceans Canada / Pêches et Océans Canada

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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