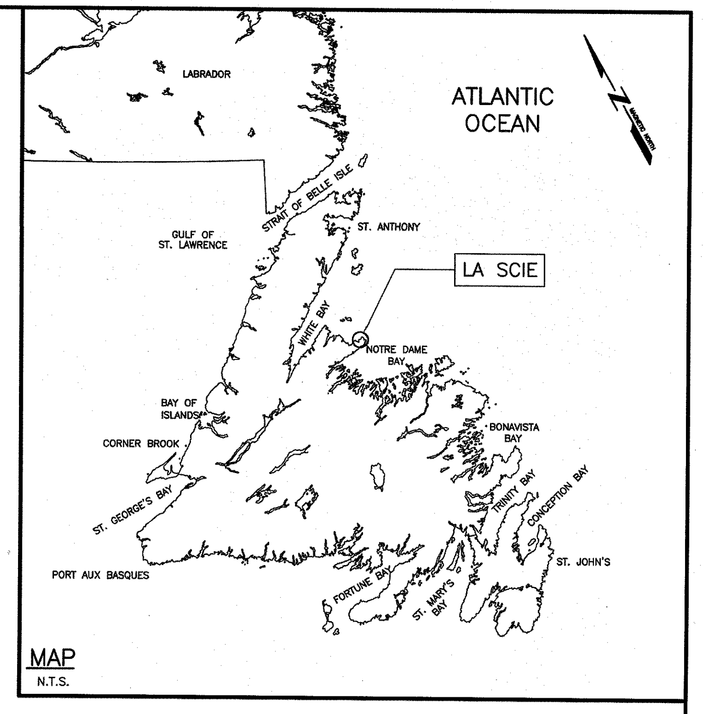
Fisheries and Oceans Canada | Pêches et Océans Canada

Small Craft Harbours | Ports Pour Petits Bateaux

Newfoundland Region
St. John's, NL.



MAP
N.T.S.

WHARF REPAIRS

LA SCIE

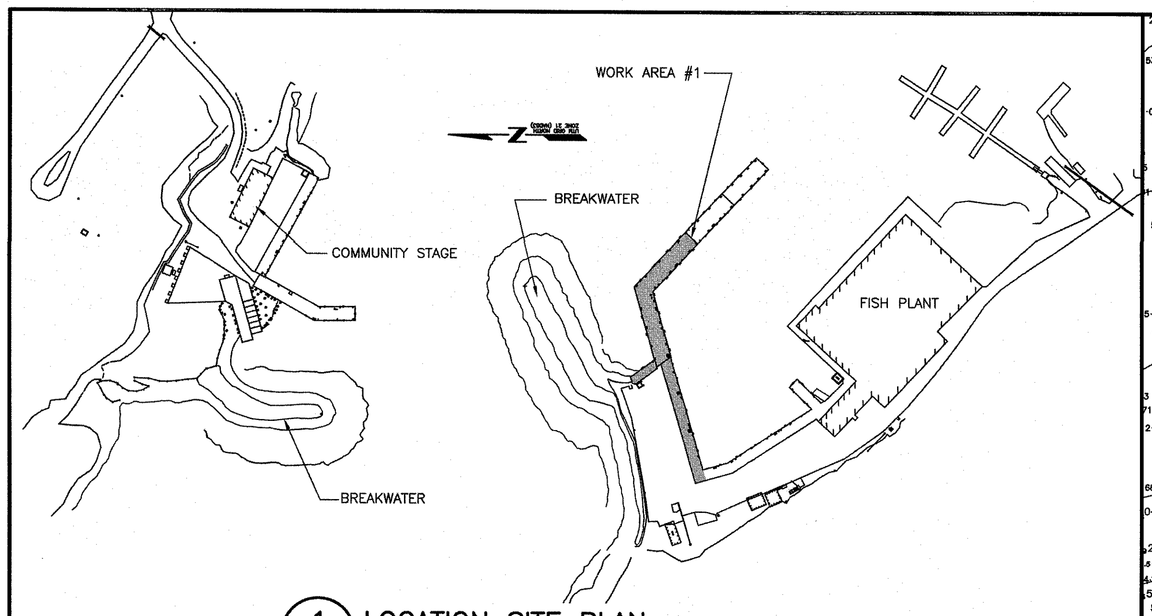
NEWFOUNDLAND AND LABRADOR

PROJECT NO. 723245

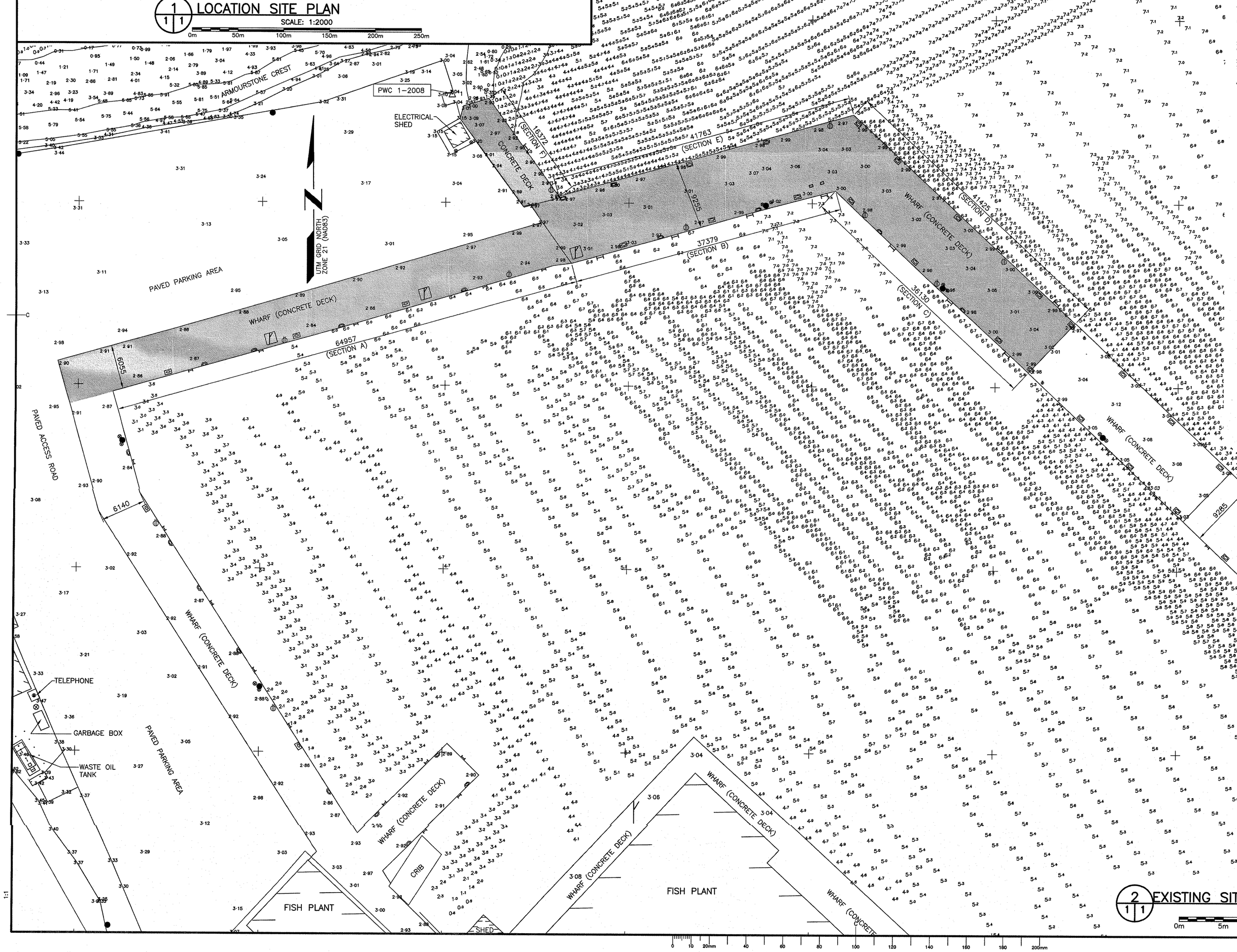
DRAWING LIST

CIVIL

Canada



1/1 LOCATION SITE PLAN
SCALE: 1:2000
0m 50m 100m 150m 200m 250m



2/1 EXISTING SITE PLAN – WORK AREA #1
SCALE: 1:250
0m 5m 10m 15m 20m 25m

SURVEY NOTES

SURVEY PARTY CHIEF RICHARD HEALEY
SURVEY VESSEL ALUMINUM BOAT
SURVEY DATE(S) NOVEMBER 13,2013

SOUNDER TYPE: SINGLE TRANSDUCER
SOUNDER SETTING MIN/INST VEL. OF SOUND 1465 m/s
DEPTH GATE USED N/A FRE. OF TRANS. 200 kHZ

POSITIONING SYSTEM USED TRIMBLE R7 GPS
LAND SURVEY POSITION BY TRIMBLE 5700 GPS

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

TIDAL REDUCTION SCHEME

OFFICE PROCESSOR RICHARD HEALEY
DATE OF PROCESSING NOVEMBER 13,2013

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
7602289	600188.179	5535229.604		PROVINCAL BRASS PLAQUE SET IN BEDROCK
7602290	600361.233	5534878.057		PROVINCAL BRASS PLAQUE SET IN BEDROCK
PWC 1–95	600197.513	5535451.800	+3.047 m	BOLT SET IN CONCRETE DECK
BM 3–87	600286.205	5535464.070	+7.736 m	SPIKE DRIVEN IN BEDROCK
PWC BM2–06	600084.757	5535240.718	+4.314 m	NAIL RAMSET IN CONCRETE DECK
BM 01F9803	600198.102	5535472.361	+1.978 m	CHS BRASS PLAQUE IN BOULDER NEAR SLIPWAY
BM 01F9003	600205.704	5535472.779	+3.103 m	CHS BRASS PLAQUE IN CONCRETE DECK
BM 01F9101			+5.613 m	CHS BRASS PLAQUE IN BEDROCK NEAR WHINCH HOUSE
PWC 1–2008	600150.858	5535264.827	+3.085 m	BOLT SET IN CONCRETE BOLLARD

ALL SOUNDINGS & ELEVATIONS IN METRES.

ALL SOUNDINGS & ELEVATIONS REFERRED TO CHS BM 01F9003 ELEV.+3.103 m (BRASS PLAQUE SET IN CONCRETE DECK).

SOUNDINGS TAKEN USING NAVISOUND 210 ECHO SOUNDER AND POSITIONED BY TRIMBLE DIFFERENTIAL GPS POSITIONING SYSTEM NOVEMBER 13,2013 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.

SPEED OF SOUND WAS OBTAINED USIND A DIGIBAR–PRO VELOCIMETER. SOUNDINGS WERE REDUCED USING HYPACK MAX VER.4.3.

ALL FIELD NOTES ARE IN LA SCIE BOOK #62.

SURVEY LEGEND

SYMBOLS

- ACQUACULTURE
- ANCHOR BLOCK
- BOREHOLE
- BOUNDARY MARKER
- CATCH BASIN
- CONTROL VALVES
- CULVERT
- DISPOSAL
- ELECTICAL BOX
- ELECTRICAL OUTLET
- FIRE HYDRANT
- FIRST AID
- FUEL PUMP
- HORIZONTAL CONTROL
- INVERT PIPE
- FLAG POLE
- LADDER
- LIFE RING
- LIGHT STANDARD
- MANHOLE
- MARSH
- RANGE LIGHT
- SAFETY POST
- SEWER OUTFLOW PIPE
- SIGN
- TELEPHONE
- TELEPHONE POLE
- TOWER
- 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
- GUARD RAIL
- MARSH OUTLINE
- PROPERTY BOUNDARY
- RANGE LIGHT EXTENSION
- RETAINING WALL
- RIPRAP
- TOE OF BANK
- TREE LINE
- UNDERGROUND CABLE

GENERAL NOTES:

1. ALL DIMENSIONS ARE IN MILLIMETERS UNLESS SPECIFIED OTHERWISE.
2. ALL ELEVATIONS ARE IN METERS.
3. DO NOT SCALE FROM DRAWINGS, USE DIMENSIONS SHOWN.

GENERAL LEGEND

DENOTES AREA OF WHARF REPAIRS

Fisheries and Oceans Canada / Pêches et Océans Canada

SMALL CRAFT HARBOURS

REGISTERED PROFESSIONAL ENGINEER PEGNL Newfoundland and Labrador CHADY FISHER 20/06/11 NEWFOUNDLAND & LABRADOR

PROVINCE OF NEWFOUNDLAND AND LABRADOR
PEGNL Newfoundland and Labrador
PERMIT HOLDER
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C	ISSUED FOR 99% REVIEW	20/06/09
B	ISSUED FOR 66% REVIEW	20/06/02
A	ISSUED FOR 33% REVIEW	20/05/22

project / projet
WHARF REPAIRS LA SCIE, NL

drawing / dessin
EXISTING SITE PLAN WORK AREA #1

designed C. FISHER / concu
date MAY, 2020
drawn R. SNOW / dessine
date MAY, 2020
approved / approuve
date
Tender / Soumission
DFO Project Manager / Administrateur de projets MPO
project number / no. du projet: 723245
drawing no. / no. du dessin: C1 OF 11

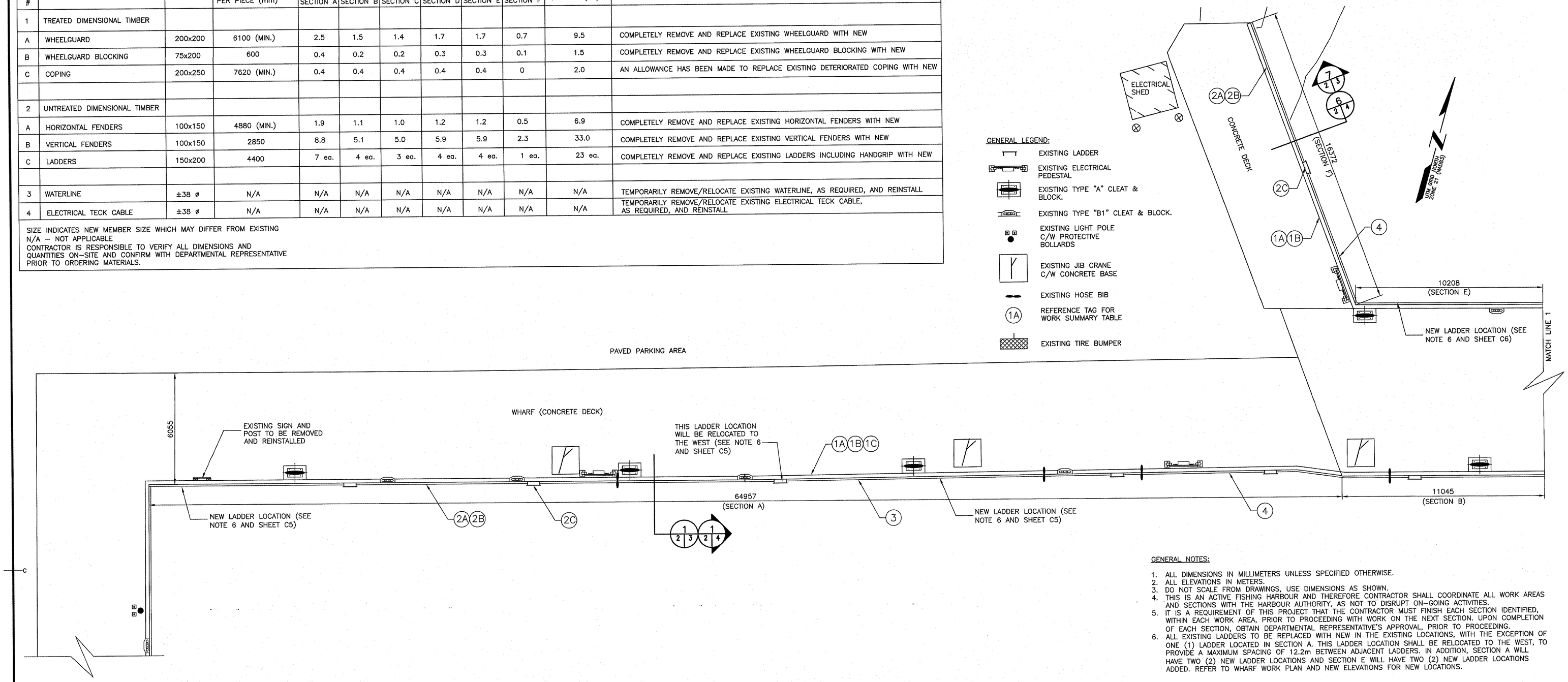
WORK AREA #1 — WORK SUMMARY TABLE

ITEM #	ITEM	SIZE (mm)	APPROXIMATE LENGTH PER PIECE (mm)	ESTIMATED QUANTITY (m^3) SECTION A	SECTION B	SECTION C	SECTION D	SECTION E	SECTION F	TOTAL ESTIMATED QUANTITY (m^3)	DESCRIPTION (FOR EACH WHARF SECTION IDENTIFIED)
1	TREATED DIMENSIONAL TIMBER										
A	WHEELGUARD	200x200	6100 (MIN.)	2.5	1.5	1.4	1.7	1.7	0.7	9.5	COMPLETELY REMOVE AND REPLACE EXISTING WHEELGUARD WITH NEW
B	WHEELGUARD BLOCKING	75x200	600	0.4	0.2	0.2	0.3	0.3	0.1	1.5	COMPLETELY REMOVE AND REPLACE EXISTING WHEELGUARD BLOCKING WITH NEW
C	COPING	200x250	7620 (MIN.)	0.4	0.4	0.4	0.4	0.4	0	2.0	AN ALLOWANCE HAS BEEN MADE TO REPLACE EXISTING DETERIORATED COPING WITH NEW
2	UNTREATED DIMENSIONAL TIMBER										
A	HORIZONTAL FENDERS	100x150	4880 (MIN.)	1.9	1.1	1.0	1.2	1.2	0.5	6.9	COMPLETELY REMOVE AND REPLACE EXISTING HORIZONTAL FENDERS WITH NEW
B	VERTICAL FENDERS	100x150	2850	8.8	5.1	5.0	5.9	5.9	2.3	33.0	COMPLETELY REMOVE AND REPLACE EXISTING VERTICAL FENDERS WITH NEW
C	LADDERS	150x200	4400	7 ea.	4 ea.	3 ea.	4 ea.	4 ea.	1 ea.	23 ea.	COMPLETELY REMOVE AND REPLACE EXISTING LADDERS INCLUDING HANDGRIP WITH NEW
3	WATERLINE	±38 ø	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	TEMPORARILY REMOVE/RELOCATE EXISTING WATERLINE, AS REQUIRED, AND REINSTALL
4	ELECTRICAL TECK CABLE	±38 ø	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	TEMPORARILY REMOVE/RELOCATE EXISTING ELECTRICAL TECK CABLE, AS REQUIRED, AND REINSTALL

SIZE INDICATES NEW MEMBER SIZE WHICH MAY DIFFER FROM EXISTING
N/A – NOT APPLICABLE
CONTRACTOR IS RESPONSIBLE TO VERIFY ALL DIMENSIONS AND QUANTITIES ON-SITE AND CONFIRM WITH DEPARTMENTAL REPRESENTATIVE PRIOR TO ORDERING MATERIALS.

GENERAL LEGEND:

- EXISTING LADDER
- EXISTING ELECTRICAL PEDESTAL
- EXISTING TYPE "A" CLEAT & BLOCK.
- EXISTING TYPE "B1" CLEAT & BLOCK.
- EXISTING LIGHT POLE C/W PROTECTIVE BOLLARDS
- EXISTING JIB CRANE C/W CONCRETE BASE
- EXISTING HOSE BIB
- REFERENCE TAG FOR WORK SUMMARY TABLE
- EXISTING TIRE BUMPER



GENERAL NOTES:

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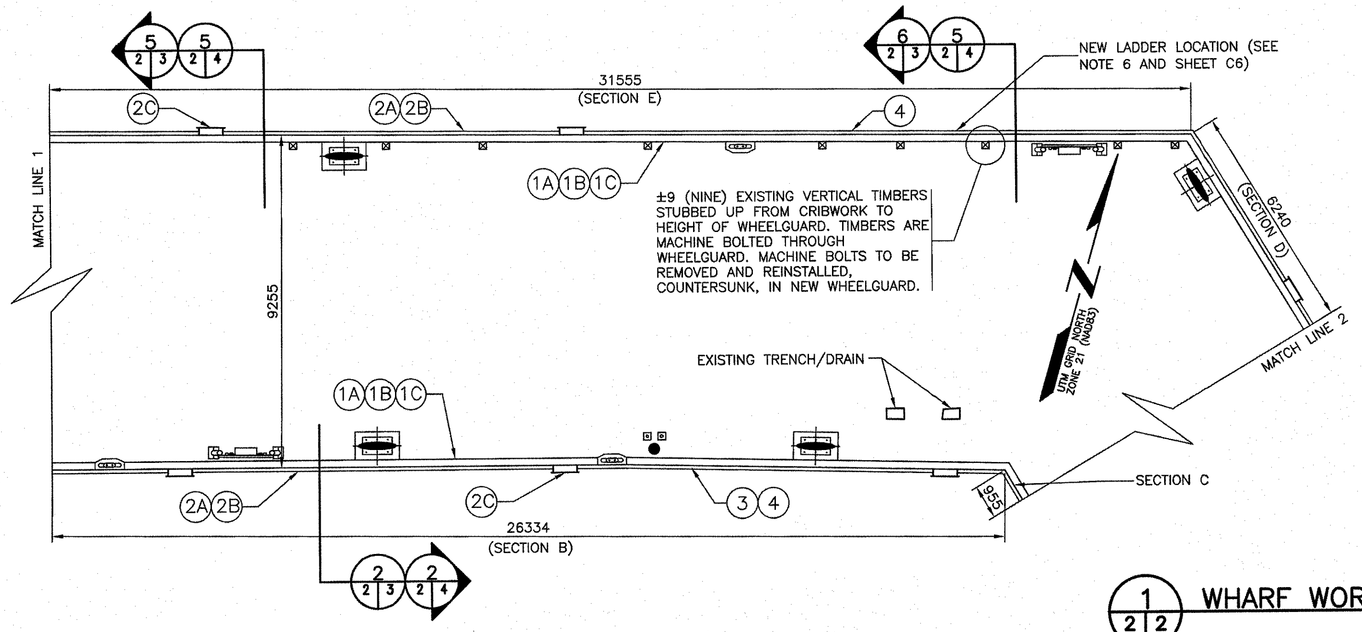
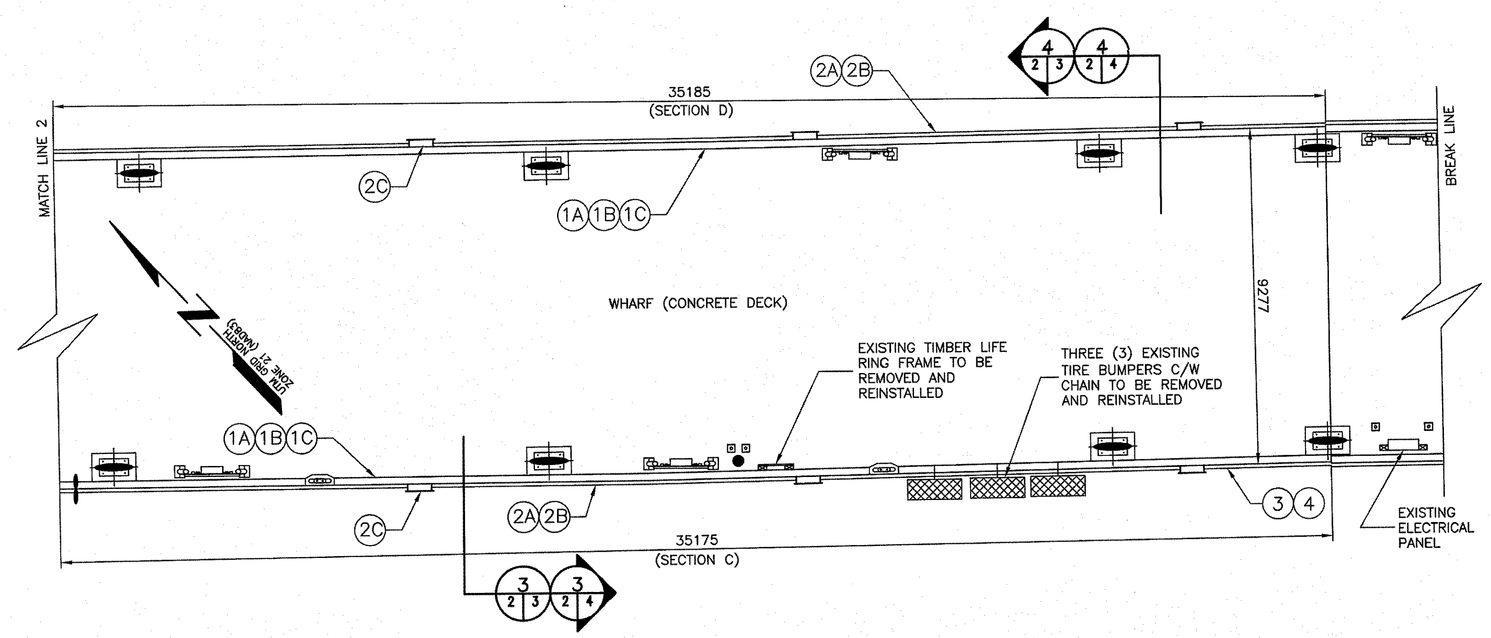
2. ALL ELEVATIONS IN METERS.
3. DO NOT SCALE FROM DRAWINGS, USE DIMENSIONS AS SHOWN.
4. THIS IS AN ACTIVE FISHING HARBOUR AND THEREFORE CONTRACTOR SHALL COORDINATE ALL WORK AREAS AND SECTIONS WITH THE HARBOUR AUTHORITY, AS NOT TO DISRUPT ON-GOING ACTIVITIES.
5. IT IS A REQUIREMENT OF THIS PROJECT THAT THE CONTRACTOR MUST FINISH EACH SECTION IDENTIFIED, WITHIN EACH WORK AREA, PRIOR TO PROCEEDING WITH WORK ON THE NEXT SECTION. UPON COMPLETION OF EACH SECTION, OBTAIN DEPARTMENTAL REPRESENTATIVE'S APPROVAL, PRIOR TO PROCEEDING.
6. ALL EXISTING LADDERS TO BE REPLACED WITH NEW IN THE EXISTING LOCATIONS, WITH THE EXCEPTION OF ONE (1) LADDER LOCATED IN SECTION A. THIS LADDER LOCATION SHALL BE RELOCATED TO THE WEST, TO PROVIDE A MAXIMUM SPACING OF 12.2m BETWEEN ADJACENT LADDERS. IN ADDITION, SECTION A WILL HAVE TWO (2) NEW LADDER LOCATIONS AND SECTION E WILL HAVE TWO (2) NEW LADDER LOCATIONS ADDED. REFER TO WHARF WORK PLAN AND NEW ELEVATIONS FOR NEW LOCATIONS.





1/2 WHARF WORK PLAN – WORK AREA #1

SCALE : 1:100

0m. 1m. 2m. 3m. 4m. 5m. 6m. 7m. 8m. 9m. 10m.

Fisheries and Oceans Canada / Pêches et Océans Canada

SMALL CRAFT HARBOURS

REGISTERED PROFESSIONAL ENGINEER — PEGL Newfoundland and Labrador — CHADWICK FISHER — SIGNATURE — DATE 20/06/11 — NEWFOUNDLAND & LABRADOR

PROVINCE OF NEWFOUNDLAND AND LABRADOR
PERMIT HOLDER
This Permit Allows
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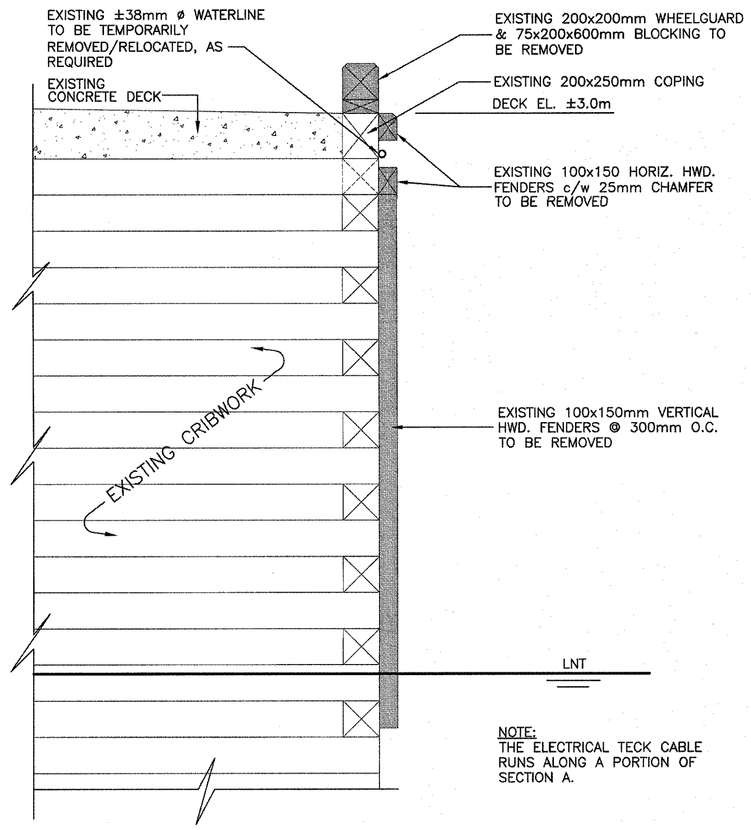
A	ISSUED FOR 33% REVIEW	20/05/22

project / projet: WHARF REPAIRS LA SCIE, NL

drawing / dessin: WHARF WORK PLAN WORK AREA #1

designed / concu: C. FISHER
date: MAY, 2020
drawn / dessine: R. SNOW
date: MAY, 2020
approved / approuve:
date:
Tender / Soumission:
DFO Project Manager / Administrateur de projets MPO:
project number / no. du projet: 723245
drawing no. / no. du dessin: C2 OF 11

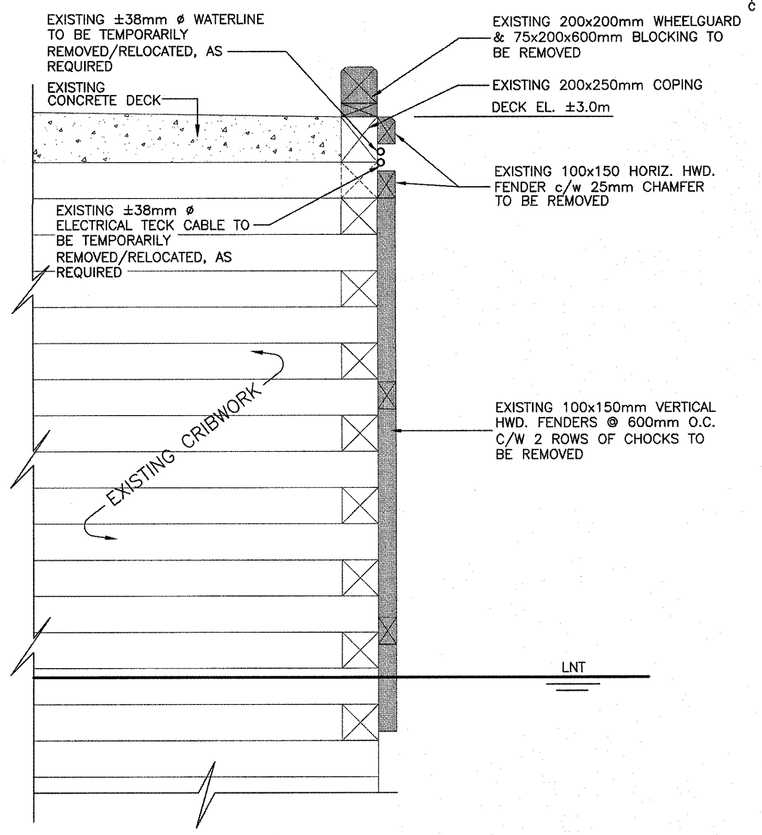


NOTE:
THE ELECTRICAL TECK CABLE RUNS ALONG A PORTION OF SECTION A.

1/2|3 EXISTING DEMOLITION SECTION A

SCALE : 1:20

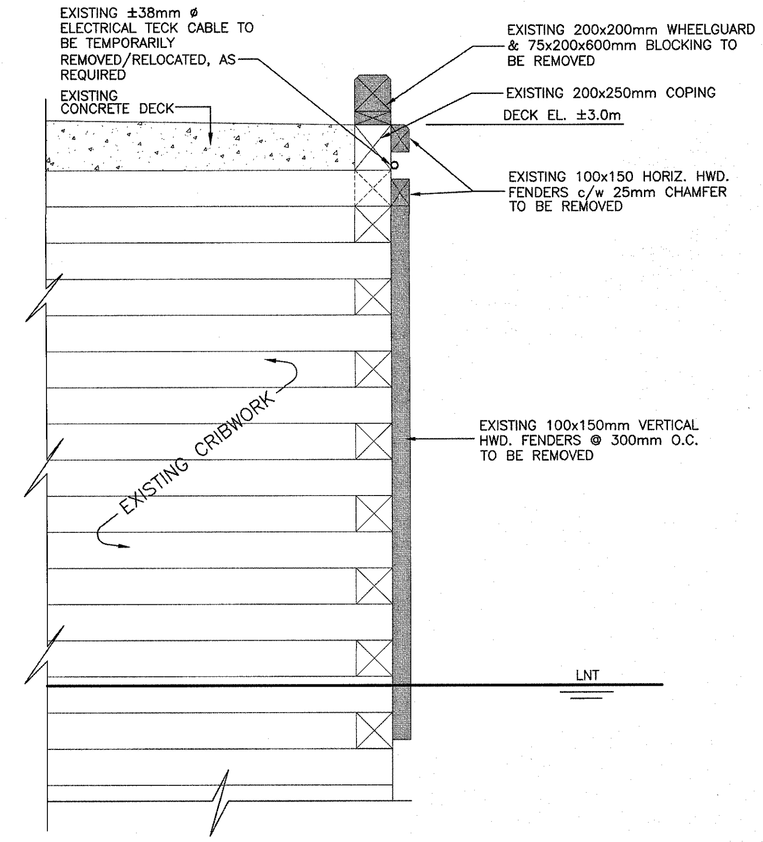
0mm 500mm 1000mm 1500mm 2000mm 2500mm



3/2|3 EXISTING DEMOLITION SECTION C

SCALE : 1:20

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



5/2|3 EXISTING DEMOLITION SECTION E1

SCALE : 1:20

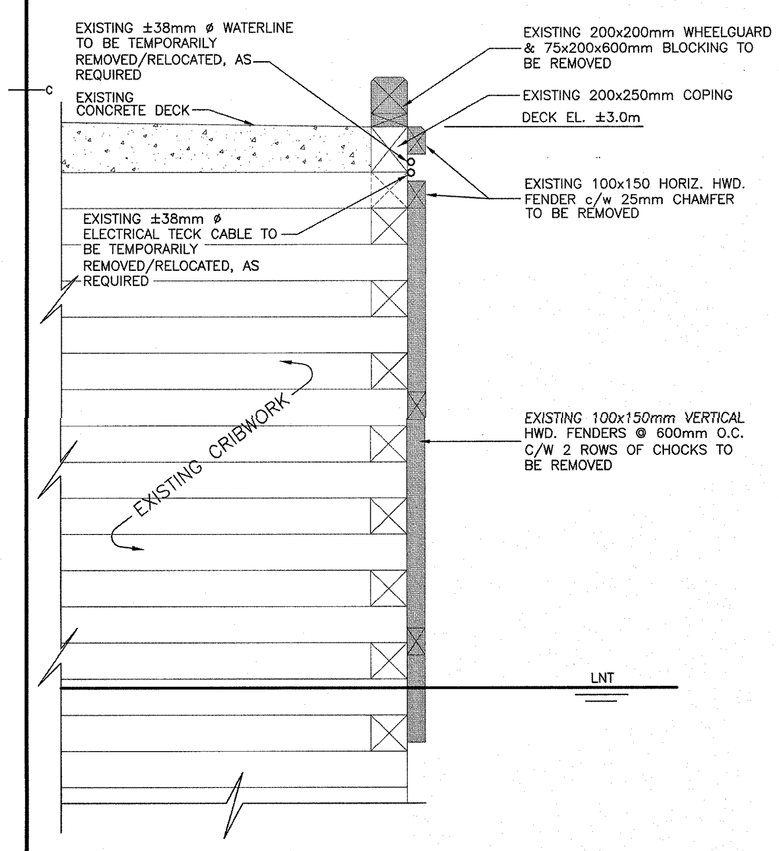
0mm 500mm 1000mm 1500mm 2000mm 2500mm

GENERAL NOTES:

1. ALL DIMENSIONS IN MILLIMETRES UNLESS SPECIFIED OTHERWISE.
2. ALL SOUNDINGS AND ELEVATIONS IN METRES UNLESS OTHERWISE SPECIFIED.
3. DO NOT SCALE FROM DRAWINGS, USE DIMENSIONS AS SHOWN.
4. THE CONTRACTOR SHALL DETERMINE WHAT SAFETY MEASURES NEED TO BE TAKEN DURING DEMOLITION/CONSTRUCTION ACTIVITIES.
5. ENSURE ALL ITEMS WHICH ARE DESIGNATED FOR REMOVAL ARE FULLY EXTRACTED IN THEIR ENTIRETY. CONTRACTOR TO DISPOSE OF ALL DEMOLISHED MATERIALS AT A PROVINCIALLY APPROVED WASTE DISPOSAL FACILITY.
6. RELIABLE AS-BUILT INFORMATION IS LIMITED. EXISTING WHARF PLANS AND SECTIONS ARE SHOWN FOR INFORMATION ONLY. CONTRACTOR TO BASE COSTS FOR DEMOLITION AND ASSOCIATED RISKS ACCORDINGLY.
7. THIS IS AN ACTIVE FISHING HARBOUR AND THEREFORE CONTRACTOR SHALL COORDINATE ALL WORK AREAS AND SECTIONS WITH THE HARBOUR AUTHORITY, AS NOT TO DISRUPT ON-GOING ACTIVITIES.
8. IT IS A REQUIREMENT OF THIS PROJECT THAT THE CONTRACTOR MUST FINISH EACH SECTION IDENTIFIED, WITHIN EACH WORK AREA, PRIOR TO PROCEEDING WITH WORK ON THE NEXT SECTION. UPON COMPLETION OF EACH SECTION, OBTAIN DEPARTMENTAL REPRESENTATIVE'S APPROVAL, PRIOR TO PROCEEDING.
9. REFER TO SECTION 02 41 16-SITE WORK, DEMOLITION AND REMOVAL.
10. CONTRACTOR SHALL AVOID DAMAGING EXISTING REMAINING COPING DURING DEMOLITION AND REMOVAL ACTIVITIES. ALL COPING DAMAGED, DURING CONSTRUCTION ACTIVITIES, WILL BE REPLACED AT THE CONTRACTOR'S OWN EXPENSE.
11. AS NOTED IN THE WORK SUMMARY TABLE AN ALLOWANCE HAS BEEN MADE TO REPLACE ANY EXISTING DETERIORATED COPING PIECES. COORDINATE WITH DEPARTMENTAL REPRESENTATIVE, AND OBTAIN APPROVAL, PRIOR TO COPING REPLACEMENT.
12. IF EITHER OF THE ELECTRICAL OR WATERLINE(S) HAVE TO BE DISCONNECTED DURING CONSTRUCTION ACTIVITIES, CONTRACTOR WILL BE REQUIRED TO PROVIDE AND MAINTAIN TEMPORARY ELECTRICAL POWER AND WATER TO THE AFFECTED AREAS.

LEGEND

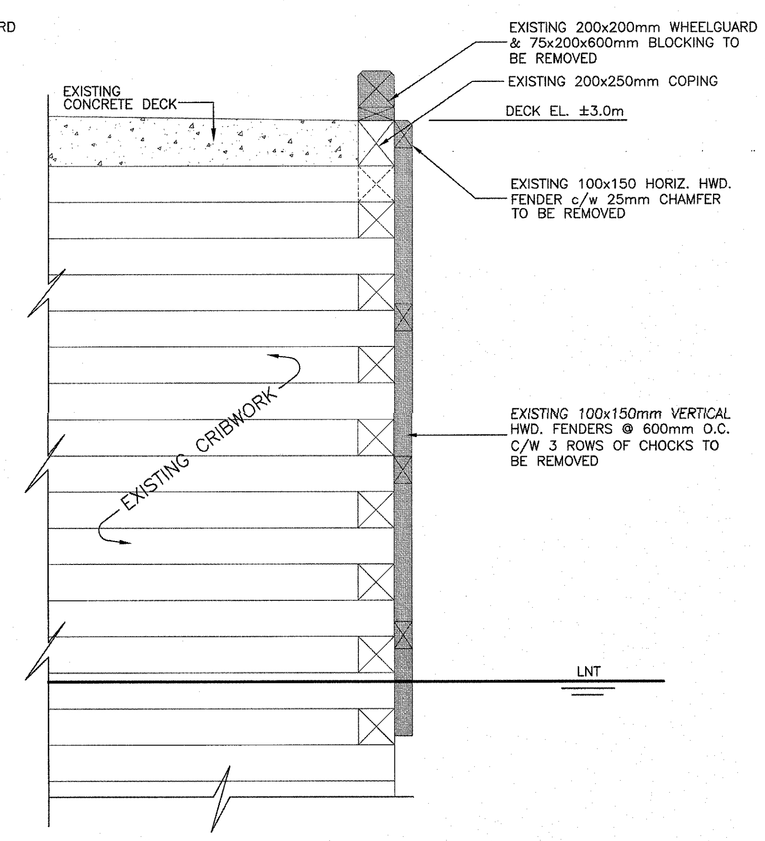
DENOTES ITEMS TO BE COMPLETELY REMOVED AND DEMOLISHED



2/2|3 EXISTING DEMOLITION SECTION B

SCALE : 1:20

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



4/2|3 EXISTING DEMOLITION SECTION D

SCALE : 1:20

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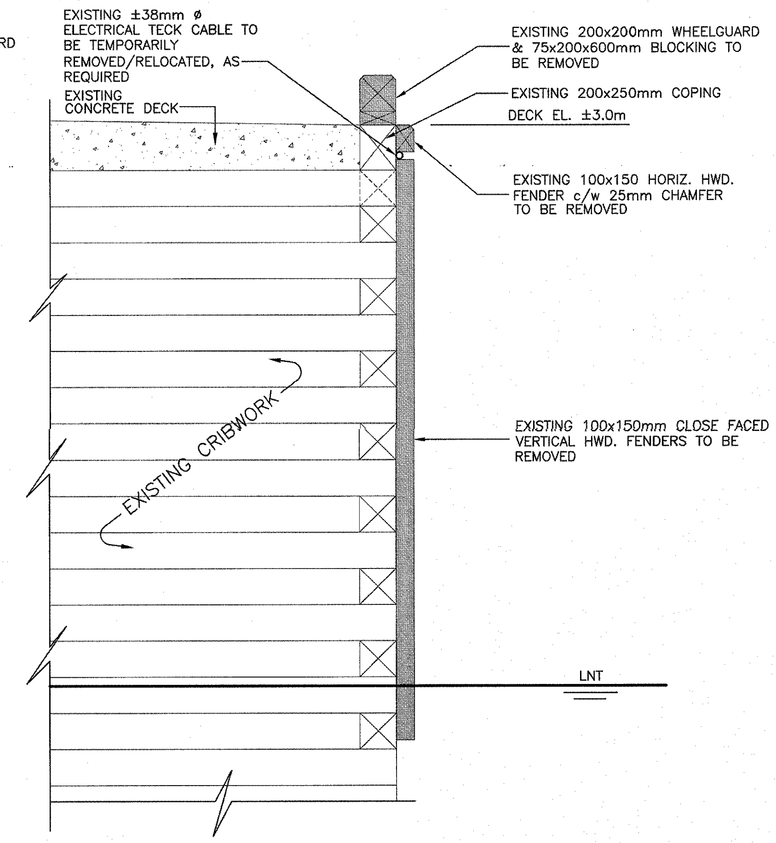

6/2|3 EXISTING DEMOLITION SECTION E2

SCALE : 1:20

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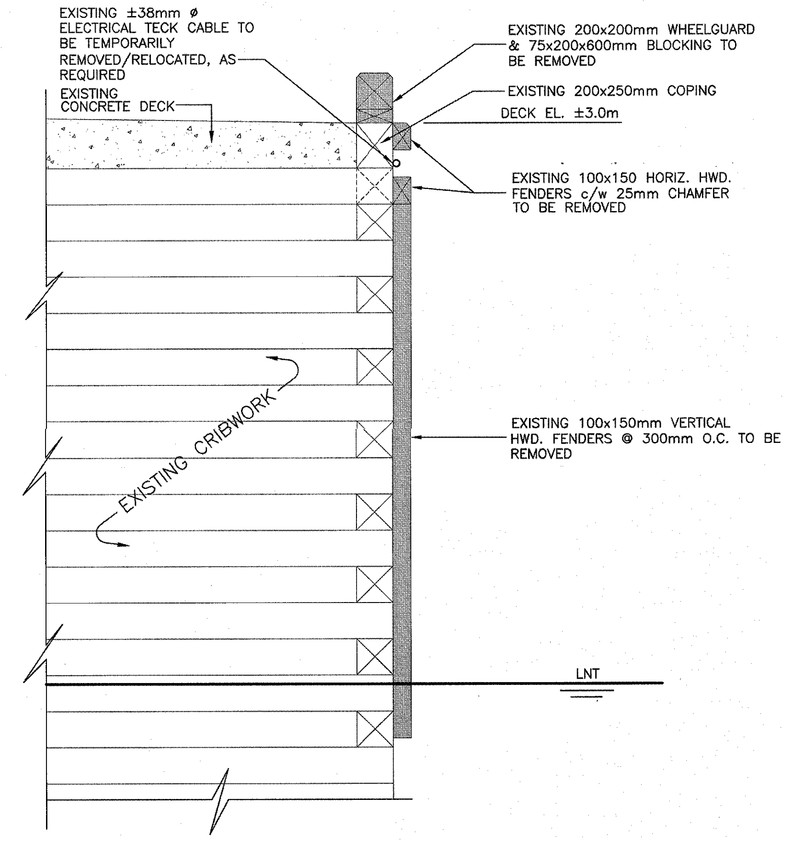

7/2|3 EXISTING DEMOLITION SECTION F

SCALE : 1:20

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

Fisheries and Oceans Canada / Pêches et Océans Canada

SMALL CRAFT HARBOURS

REGISTERED PROFESSIONAL ENGINEER
PEGL Newfoundland and Labrador
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20/06/11
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A	ISSUED FOR 33% REVIEW	20/05/22

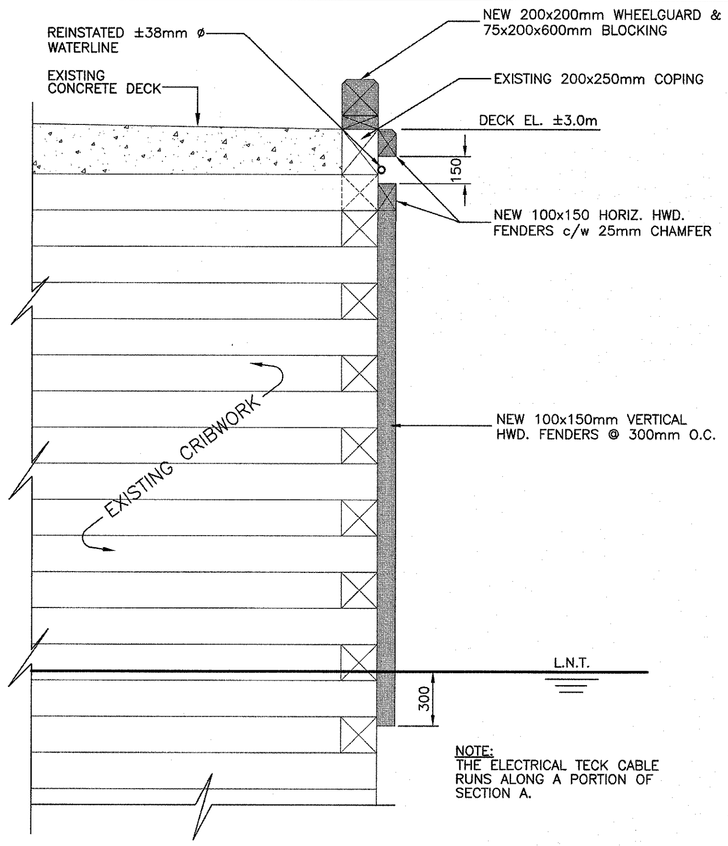
project / projet

WHARF REPAIRS
LA SCIE, NL

drawing / dessin

EXISTING DEMOLITION SECTIONS
WORK AREA #1

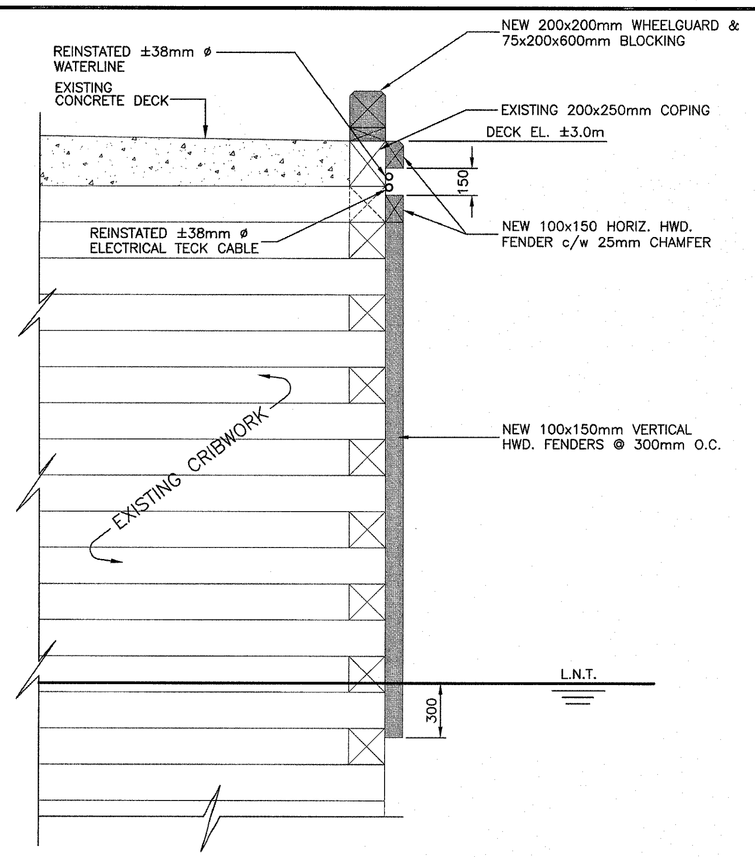
designed / concu: C. FISHER
date: MAY, 2020
drawn / dessine: R. SNOW
date: MAY, 2020
approved / approuve
date
Tender / Soumission
DFO Project Manager / Administrateur de projets MPO
project number / no. du projet: 723245
drawing no. / no. du dessin: C3 OF 11



1/2 NEW SECTION A

SCALE : 1:20

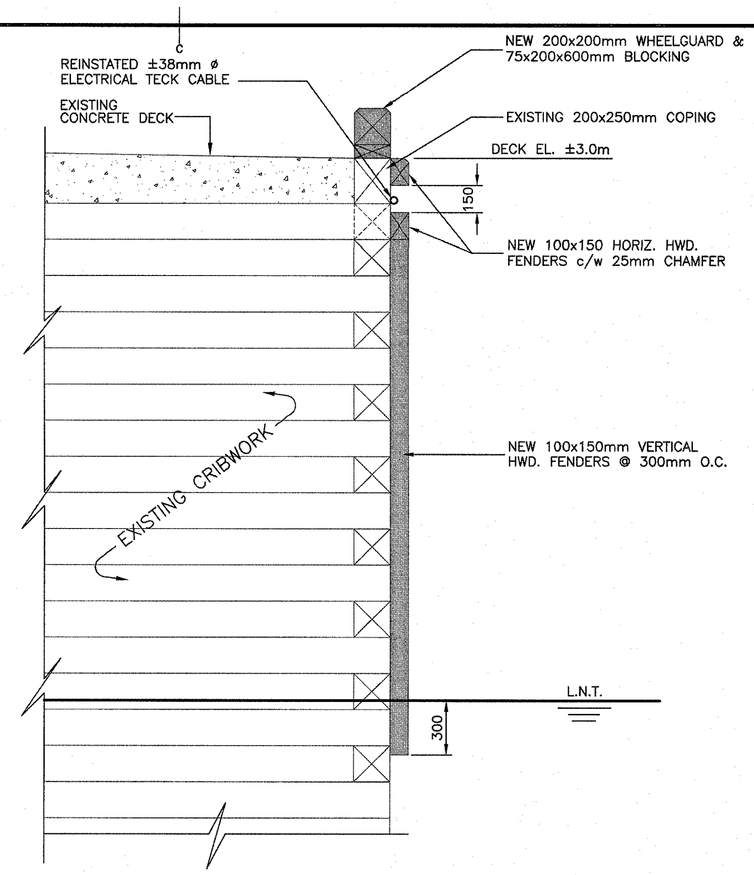
0mm 500mm 1000mm 1500mm 2000mm 2500mm



3/2 NEW SECTION C

SCALE : 1:20

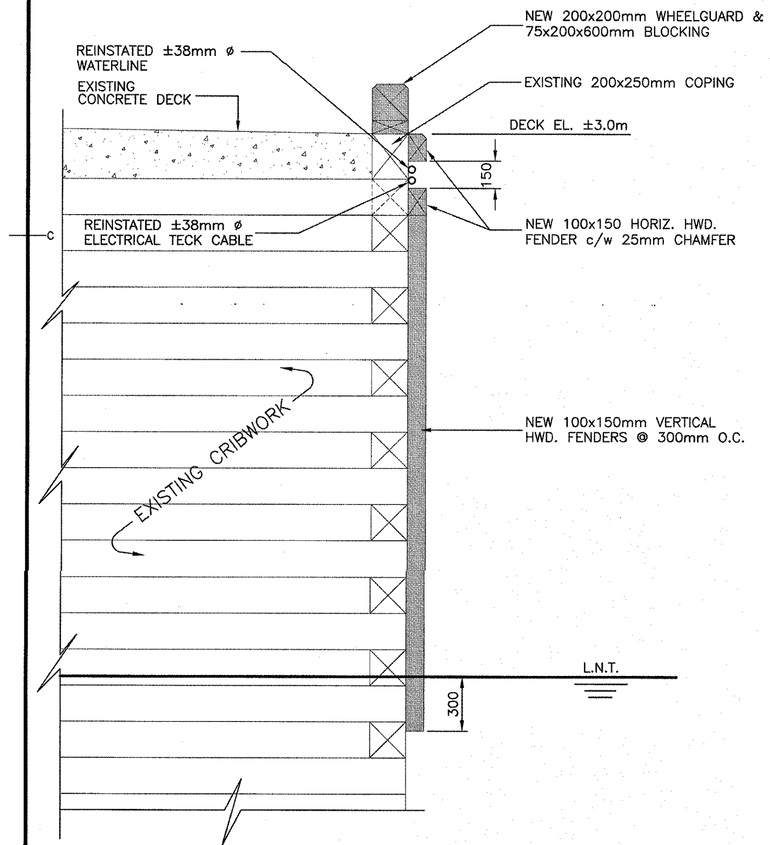
0mm 500mm 1000mm 1500mm 2000mm 2500mm



5/2 NEW SECTION E

SCALE : 1:20

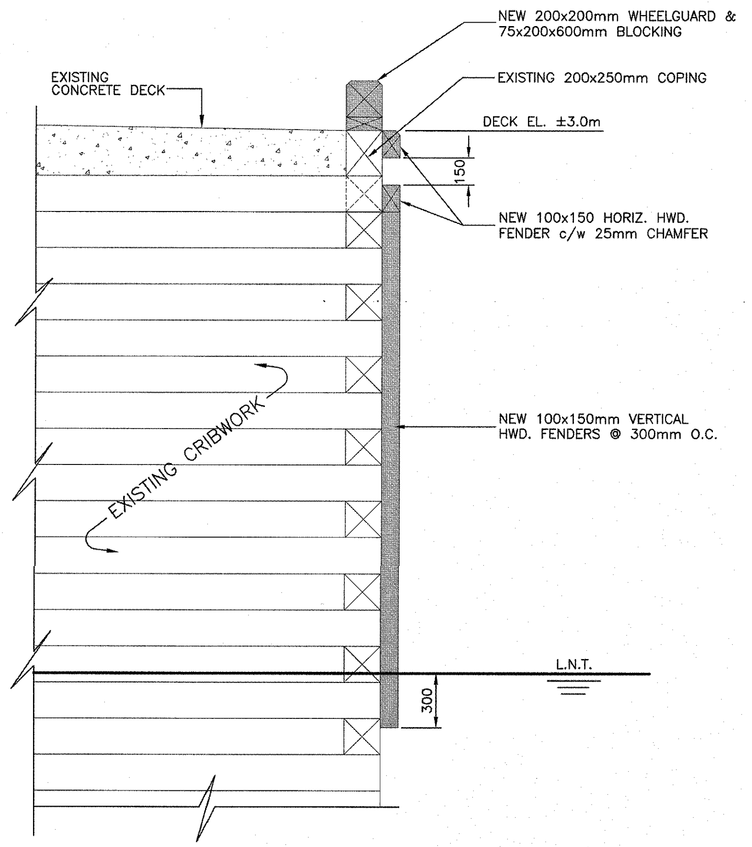
0mm 500mm 1000mm 1500mm 2000mm 2500mm



2/2 NEW SECTION B

SCALE : 1:20

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



4/2 NEW SECTION D

SCALE : 1:20

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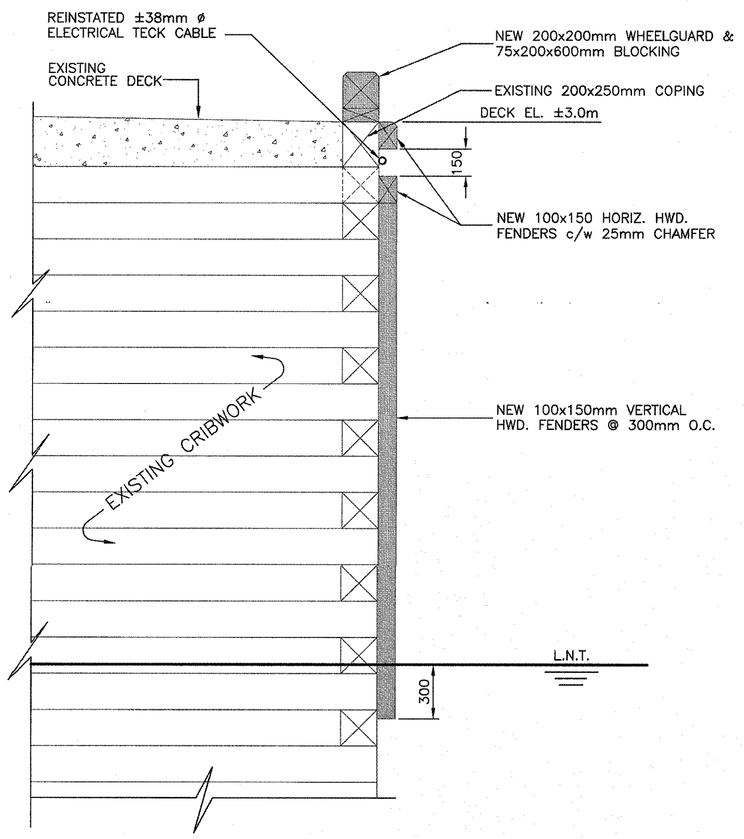
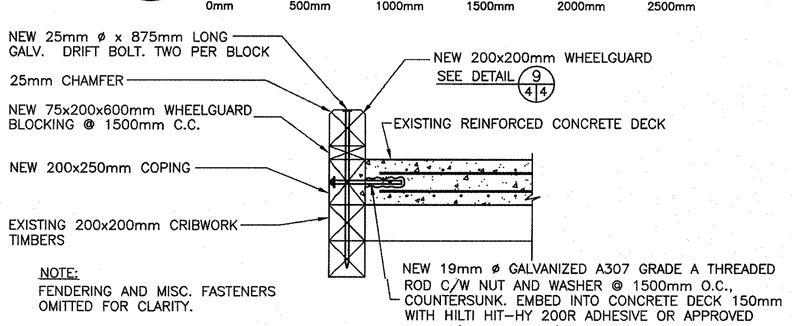


6/2 NEW SECTION F

SCALE : 1:20

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



7/4 4 NEW WHEELGUARD AND NEW COPING DETAIL

SCALE : 1:20

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

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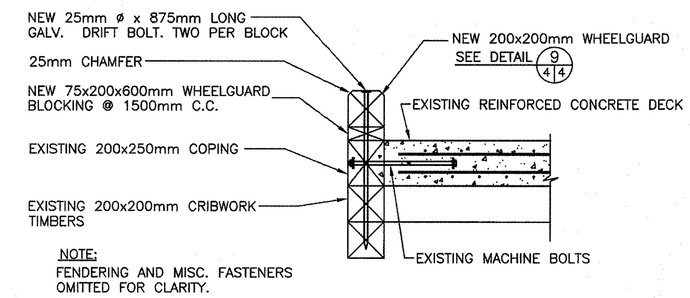
6. ALL MACHINE BOLTS TO BE 19mm DIAMETER (GALVANIZED), UNLESS OTHERWISE NOTED.
7. ALL DRIFT BOLTS TO BE 19mm DIAMETER (GALVANIZED), UNLESS OTHERWISE NOTED.
8. ALL TIMBER TO BE TREATED TO CSA 080, LATEST EDITION, UNLESS OTHERWISE NOTED.
9. GALVANIZING WILL CONFORM TO ASTM A123/A123M, LATEST EDITION.
10. ALL LAG SCREWS TO BE GALVANIZED AND SIZED AS PER FOLLOWING:
    LADDER UPRIGHTS – 19mm ø
    FENDERING – 16mm ø
11. ALL EXISTING ELECTRICAL AND WATERLINES TO BE REINSTATED TO MATCH EXISTING SITE CONDITIONS, INCLUDING ALL HOOK-UPS, TRANSITIONS, BLOCKING, FASTENING CLIPS, FASTENERS, ETC. IF NECESSARY, PROVIDE NEW MATERIAL. WHERE EXISTING IS EITHER DAMAGED OR UNUSABLE, TO REINSTATE LINES.
12. IF EXISTING COPING MACHINE BOLTS ARE IN GOOD CONDITION, CONTRACTOR MAY REUSE IN NEW WORK, IF APPROVED BY THE DEPARTMENTAL REPRESENTATIVE. IF NOT, CUT EXISTING BOLTS FLUSH WITH CONCRETE DECK AND INSTALL NEW THREADED RODS AS SPECIFIED.

LEGEND (DETAILS 1–6):

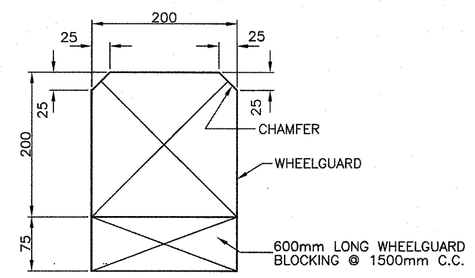
DENOTES NEW ITEMS



8/4 4 NEW WHEELGUARD AND EXISTING COPING DETAIL

SCALE : 1:20

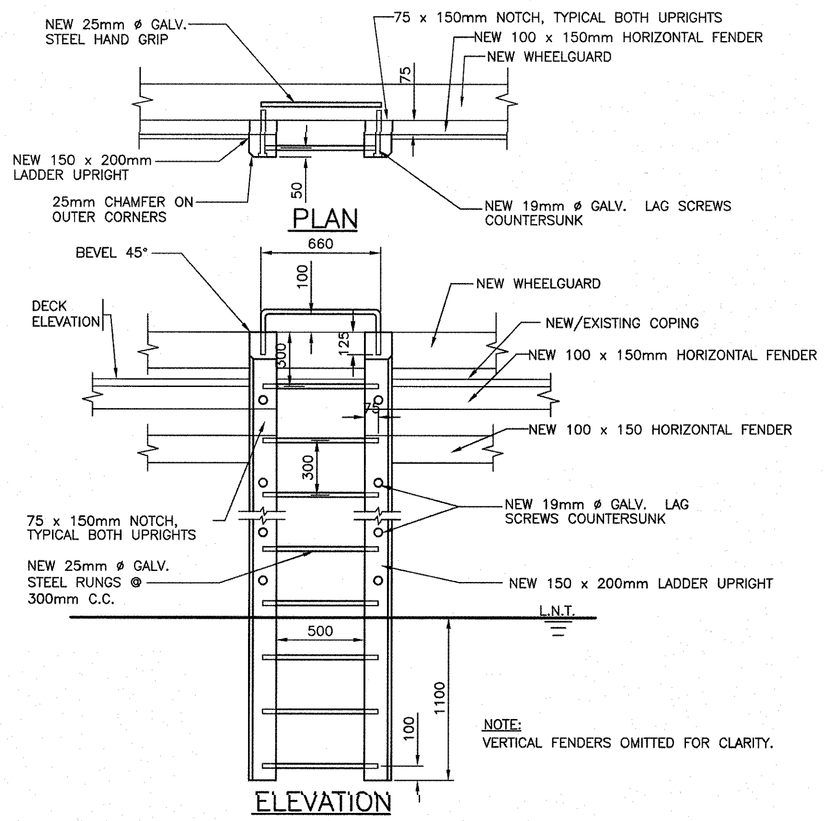
0mm 500mm 1000mm 1500mm 2000mm 2500mm



9/4 4 NEW WHEELGUARD SECTION

SCALE: 1:5

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



10/4 4 NEW LADDER DETAILS

SCALE : 1:20

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

Fisheries and Oceans Canada / Pêches et Océans Canada

SMALL CRAFT HARBOURS

REGISTERED PROFESSIONAL ENGINEER
PEGNL Newfoundland and Labrador
CHARLES FISHER
20/06/11
NEWFOUNDLAND & LABRADOR

PROVINCE OF NEWFOUNDLAND AND LABRADOR
PEGNL Newfoundland and Labrador
PERMIT HOLDER
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Permit No. as issued by PEG NO4453 which is valid for the year 2020.

revisions		date
D	ISSUED FOR TENDER	20/06/11
C	ISSUED FOR 99% REVIEW	20/06/09
B	ISSUED FOR 66% REVIEW	20/06/03
A	ISSUED FOR 33% REVIEW	20/05/22

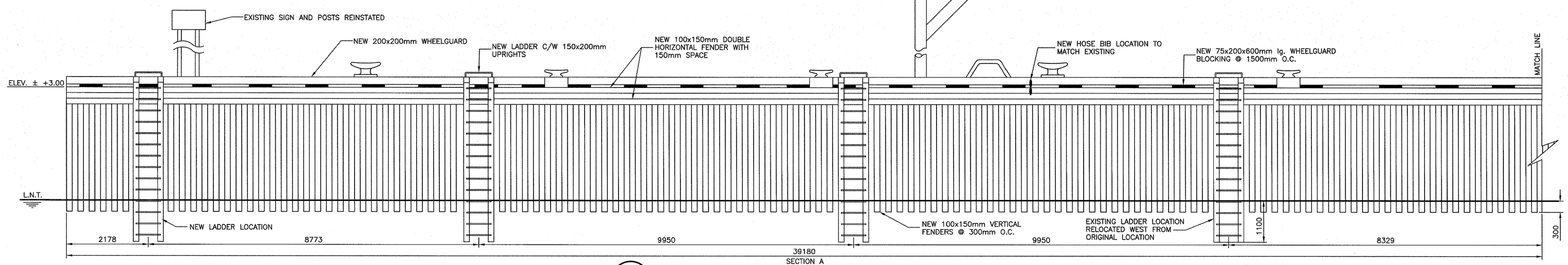
project / projet

WHARF REPAIRS LA SCIE, NL

drawing / dessin

NEW SECTIONS AND DETAILS WORK AREA #1

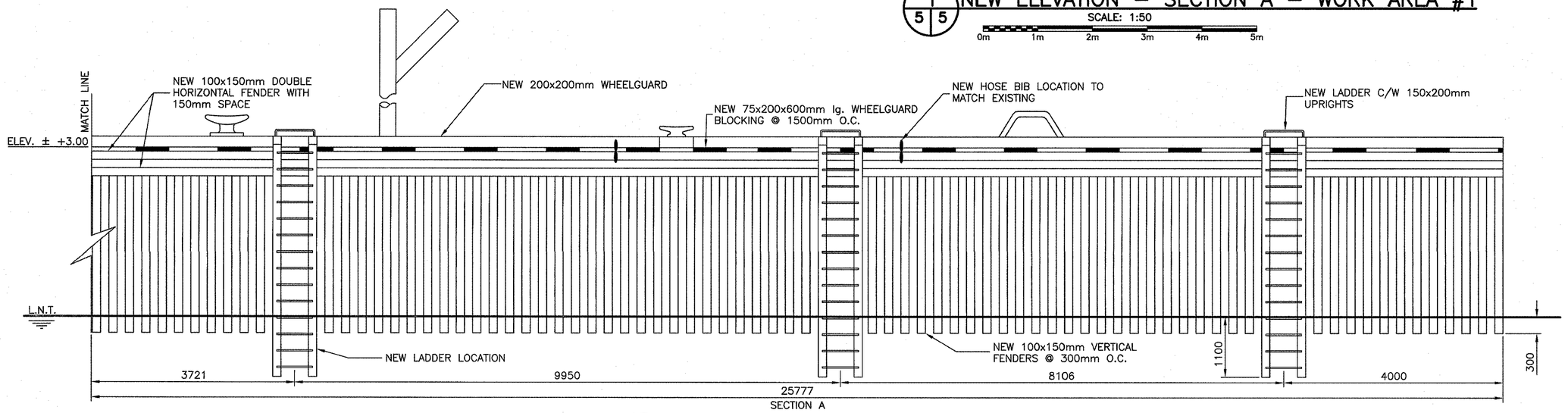
designed C. FISHER / conçu
date MAY, 2020
drawn R. SNOW / dessiné
date MAY, 2020
approved / approuvé
date
Tender / Soumission
DFO Project Manager / Administrateur de projets MPO
project number / no. du projet: 723245
drawing no. / no. du dessin: C4 OF 11



1/5 5/5 NEW ELEVATION – SECTION A – WORK AREA #1

SCALE: 1:50

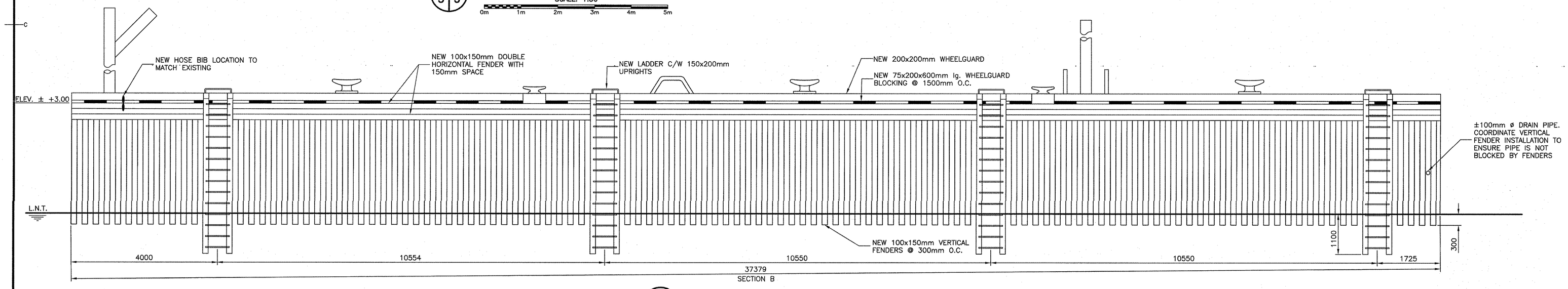
0m 1m 2m 3m 4m 5m



2/5 5/5 NEW ELEVATION – SECTION A – WORK AREA #1

SCALE: 1:50

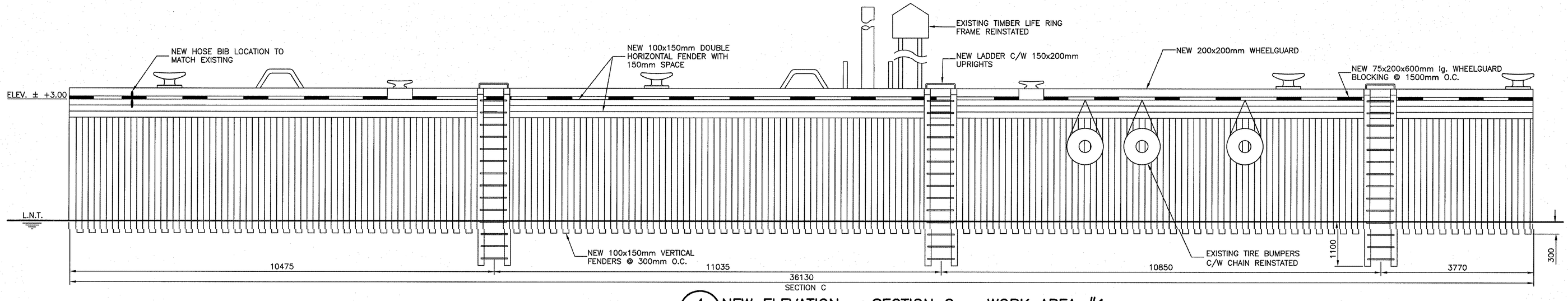
0m 1m 2m 3m 4m 5m



3/5 5/5 NEW ELEVATION – SECTION B – WORK AREA #1

SCALE: 1:50

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



4/5 5/5 NEW ELEVATION – SECTION C – WORK AREA #1

SCALE: 1:50

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

0 10 20mm 40 60 80 100 120 140 160 180 200mm

NOTES:

1. ALL DIMENSIONS IN MILLIMETRES UNLESS SPECIFIED OTHERWISE.
2. ALL ELEVATIONS IN METRES.
3. DO NOT SCALE FROM DRAWINGS, USE DIMENSIONS AS SHOWN.
4. THIS IS AN ACTIVE FISHING HARBOUR AND THEREFORE CONTRACTOR SHALL COORDINATE ALL WORK AREAS AND SECTIONS WITH THE HARBOUR AUTHORITY, AS NOT TO DISRUPT ON-GOING ACTIVITIES.
5. IT IS A REQUIREMENT OF THIS PROJECT THAT THE CONTRACTOR MUST FINISH EACH SECTION IDENTIFIED, WITHIN EACH WORK AREA, PRIOR TO PROCEEDING WITH WORK ON THE NEXT SECTION. UPON COMPLETION OF EACH SECTION, OBTAIN DEPARTMENTAL REPRESENTATIVE'S APPROVAL, PRIOR TO PROCEEDING.
6. ALL EXISTING LADDERS TO BE REPLACED WITH NEW IN THE EXISTING LOCATIONS, WITH THE EXCEPTION OF ONE (1) LADDER LOCATED IN SECTION A. THIS LADDER LOCATION SHALL BE RELOCATED TO THE WEST, TO PROVIDE A MAXIMUM SPACING OF 12.2m BETWEEN ADJACENT LADDERS. IN ADDITION, SECTION A WILL HAVE TWO (2) NEW LADDER LOCATIONS AND SECTION E WILL HAVE TWO (2) NEW LADDER LOCATIONS ADDED. REFER TO WHARF WORK PLAN AND NEW ELEVATIONS FOR NEW LOCATIONS.
7. ALL EXISTING ELECTRICAL AND WATERLINES TO BE REINSTATED TO MATCH EXISTING SITE CONDITIONS, INCLUDING ALL HOOK-UPS, TRANSITIONS, BLOCKING, FASTENING CLIPS, FASTENERS, ETC. IF NECESSARY, PROVIDE NEW MATERIAL, WHERE EXISTING IS EITHER DAMAGED OR UNUSABLE, TO REINSTATE LINES.
8. NOTCH/TERMINATE TOP HORIZONTAL FENDERS AT HOSE BIB LOCATIONS, AS REQUIRED, TO REINSTATE WATERLINE.
9. ALL MACHINE BOLTS TO BE 19mm DIAMETER (GALVANIZED), UNLESS OTHERWISE NOTED.
10. ALL DRIFT BOLTS TO BE 19mm DIAMETER (GALVANIZED), UNLESS OTHERWISE NOTED.
11. ALL TIMBER TO BE TREATED TO CSA O80, LATEST EDITION, UNLESS OTHERWISE NOTED.
12. GALVANIZING WILL CONFORM TO ASTM A123/A123M, LATEST EDITION.
13. ALL LAG SCREWS TO BE GALVANIZED AND SIZED AS PER FOLLOWING:
    LADDER UPRIGHTS – 19mm ø
    FENDERING – 16mm ø
14. SPACING BETWEEN LADDERS SHALL IN NO CASE EXCEED 12.2m O.C.
15. ALL EXISTING MISCELLANEOUS ITEMS TO BE REINSTATED AS PER EXISTING SITE CONDITIONS, INCLUDING BUT NOT NECESSARY LIMITED TO, SIGN AND POSTS, TIRE BUMPERS, LIFE RING FRAME, ETC., INCLUDING ALL FASTENERS AND BLOCKING. IF NECESSARY, PROVIDE NEW MATERIAL, WHERE EXISTING IS EITHER DAMAGED OR UNUSABLE, TO REINSTATE ITEMS.

Fisheries and Oceans Canada / Pêches et Océans Canada

SMALL CRAFT HARBOURS

REGISTERED PROFESSIONAL ENGINEER
PEGL Newfoundland and Labrador
CRAIG Y. FISHER
SIGNATURE
20/06/11
DATE
NEWFOUNDLAND & LABRADOR

PROVINCE OF NEWFOUNDLAND AND LABRADOR
PERMIT HOLDER
This Permit Allows
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Member No. 04378
To practice Professional Engineering in Newfoundland and Labrador.
Permit No. as issued by PEG N0453
which is valid for the year 2020.

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A	ISSUED FOR 33% REVIEW	20/05/22

project / projet

WHARF REPAIRS LA SCIE, NL

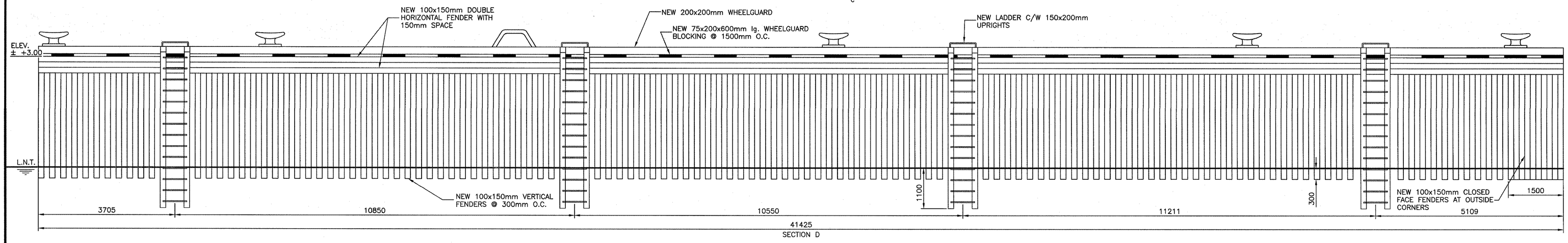
drawing / dessin

NEW ELEVATIONS WORK AREA #1 (SHEET 1 OF 2)

designed C. FISHER
date MAY, 2020
drawn R. SNOW
date MAY, 2020
approved
date
Tender
DFO Project Manager / Administrateur de projets MPO

project number / no. du projet: 723245

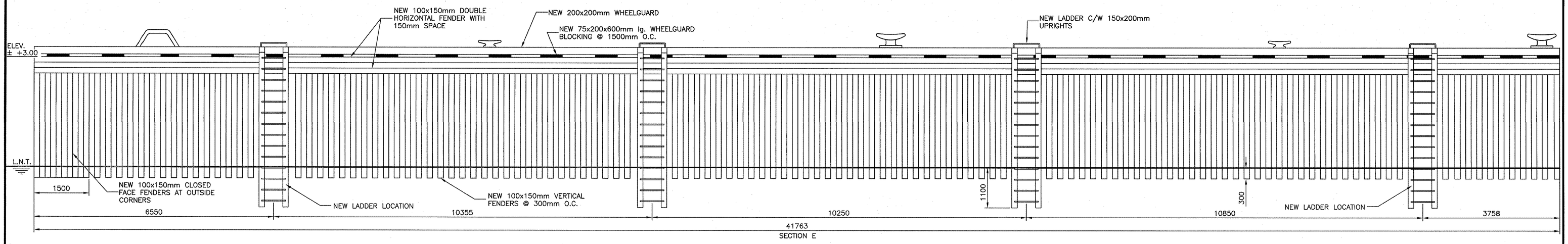
drawing no. / no. du dessin: C5 OF 11



1 (6|6) NEW ELEVATION – SECTION D – WORK AREA #1

SCALE: 1:50

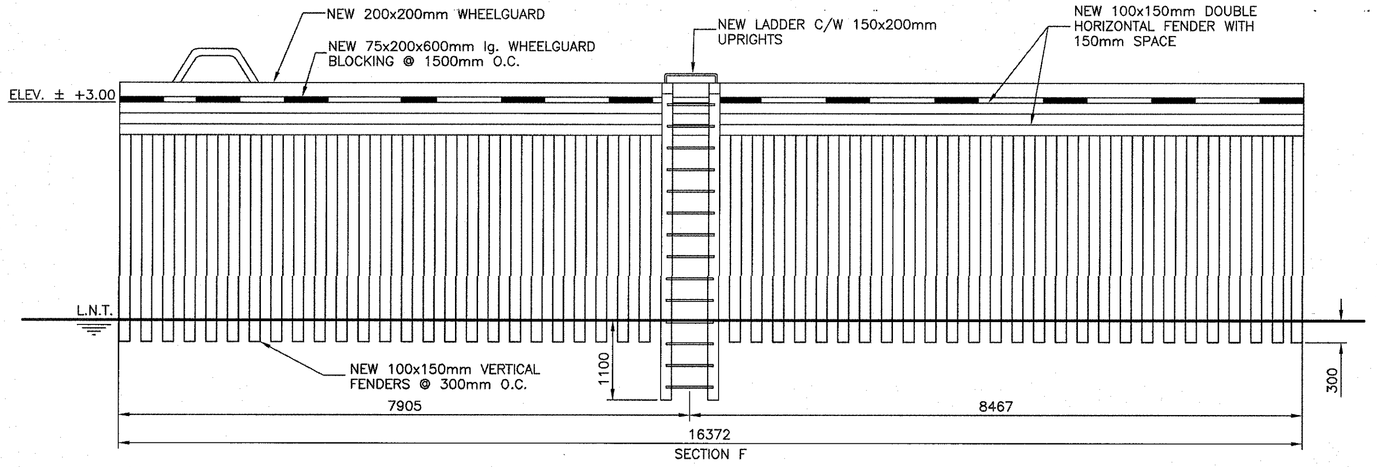
0m 1m 2m 3m 4m 5m



2 (6|6) NEW ELEVATION– SECTION E – WORK AREA #1

SCALE: 1:50

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



3 (6|6) NEW ELEVATION – SECTION F – WORK AREA #1

SCALE: 1:50

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

NOTES:

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8. NOTCH/TERMINATE TOP HORIZONTAL FENDERS AT HOSE BIB LOCATIONS, AS REQUIRED, TO REINSTATE WATERLINE.
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10. ALL DRIFT BOLTS TO BE 19mm DIAMETER (GALVANIZED), UNLESS OTHERWISE NOTED.
11. ALL TIMBER TO BE TREATED TO CSA 080, LATEST EDITION, UNLESS OTHERWISE NOTED.
12. GALVANIZING WILL CONFORM TO ASTM A123/A123M, LATEST EDITION.
13. ALL LAG SCREWS TO BE GALVANIZED AND SIZED AS PER FOLLOWING:
    LADDER UPRIGHTS – 19mm ø
    FENDERING – 16mm ø
14. SPACING BETWEEN LADDERS SHALL IN NO CASE EXCEED 12.2m O.C.
15. ALL EXISTING MISCELLANEOUS ITEMS TO BE REINSTATED AS PER EXISTING SITE CONDITIONS, INCLUDING BUT NOT NECESSARY LIMITED TO, SIGN AND POSTS, TIRE BUMPERS, LIFE RING FRAME, ETC., INCLUDING ALL FASTENERS AND BLOCKING. IF NECESSARY, PROVIDE NEW MATERIAL, WHERE EXISTING IS EITHER DAMAGED OR UNUSABLE, TO REINSTATE ITEMS.

Fisheries and Oceans Canada / Pêches et Océans Canada

SMALL CRAFT HARBOURS

REGISTERED PROFESSIONAL ENGINEER
PEGL Newfoundland and Labrador
CHADY V. FISHER
20/06/11
NEWFOUNDLAND & LABRADOR

PROVINCE OF NEWFOUNDLAND AND LABRADOR
PEGL Newfoundland and Labrador
PERMIT HOLDER
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which is valid for the year 2020.

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B	ISSUED FOR 66% REVIEW	20/06/03
A	ISSUED FOR 33% REVIEW	20/05/22

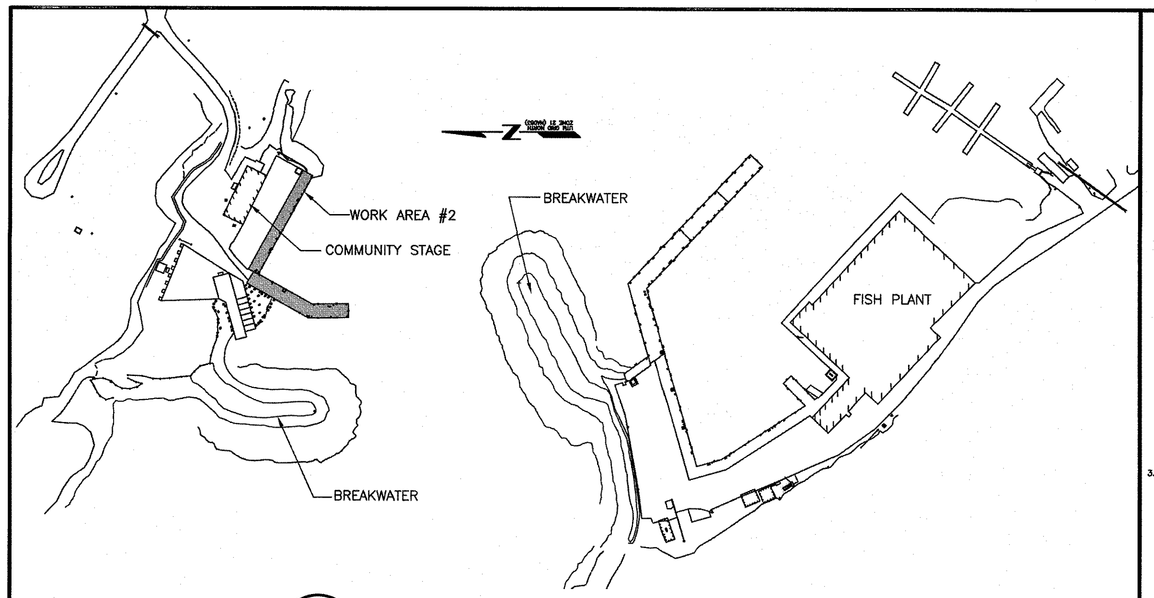
project / projet

WHARF REPAIRS
LA SCIE, NL

drawing / dessin

NEW ELEVATIONS
WORK AREA #1
(SHEET 2 OF 2)

designed C. FISHER / concu
date MAY, 2020
drawn R. SNOW / dessine
date MAY, 2020
approved / approuvé
date
Tender / Soumission
DFO Project Manager / Administrateur de projets MPO
project number / no. du projet
723245
drawing no. / no. du dessin
C6 OF 11



1/77 LOCATION SITE PLAN
SCALE: 1:2000
0m 50m 100m 150m 200m 250m

GENERAL NOTES:

1. ALL DIMENSIONS ARE IN MILLIMETERS UNLESS SPECIFIED OTHERWISE.
2. ALL ELEVATIONS ARE IN METERS.
3. DO NOT SCALE FROM DRAWINGS, USE DIMENSIONS SHOWN.

GENERAL LEGEND

DENOTES AREA OF WHARF REPAIRS

SURVEY LEGEND

SYMBOLS

ACQUACULTURE
ANCHOR BLOCK
BOREHOLE
BOUNDARY MARKER
CATCH BASIN
CONTROL VALVES
CULVERT
DISPOSAL
ELECTICAL BOX
ELECTRICAL OUTLET
FIRE HYDRANT
FIRST AID
FUEL PUMP
HORIZONTAL CONTROL
INVERT PIPE
FLAG POLE
LADDER
LIFE RING
LIGHT STANDARD
MANHOLE
MARSH
RANGE LIGHT
SAFETY POST
SEWER OUTFLOW PIPE
SIGN
TELEPHONE
TELEPHONE POLE
TOWER
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
GUARD RAIL
MARSH OUTLINE
PROPERTY BOUNDARY
RANGE LIGHT EXTENSION
RETAINING WALL
RIPRAP
TOE OF BANK
TREE LINE
UNDERGROUND CABLE

SURVEY NOTES

SURVEY PARTY CHIEF RICHARD HEALEY
SURVEY VESSEL ALUMINUM BOAT
SURVEY DATE(S) NOVEMBER 13,2013

SOUNDER TYPE: SINGLE TRANSDUCER
SOUNDER SETTING MIN/INST VEL. OF SOUND 1465 m/s
DEPTH GATE USED N/A FRE. OF TRANS. 200 kHZ

POSITIONING SYSTEM USED TRIMBLE R7 GPS
LAND SURVEY POSITION BY TRIMBLE 5700 GPS

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

TIDAL REDUCTION SCHEME

OFFICE PROCESSOR RICHARD HEALEY
DATE OF PROCESSING NOVEMBER 13,2013

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
76G2289	600188.179	5535229.604		PROVINCAL BRASS PLAQUE SET IN BEDROCK
76G2290	600361.233	5534878.057		PROVINCAL BRASS PLAQUE SET IN BEDROCK
PWC 1-95	600197.513	5535451.800	+3.047 m	BOLT SET IN CONCRETE DECK
BM 3-87	600296.205	5535464.070	+7.736 m	SPIKE DRIVEN IN BEDROCK
PWC BM2-06	600084.757	5535240.718	+4.314 m	NAIL RAMSET IN CONCRETE DECK
BM 01F9003	600198.102	5535472.361	+1.978 m	CHS BRASS PLAQUE IN BOULDER NEAR SLIPWAY
BM 01F9003	600205.704	5535472.779	+3.103 m	CHS BRASS PLAQUE IN CONCRETE DECK
BM 01F9101			+5.613 m	CHS BRASS PLAQUE IN BEDROCK NEAR WHINCH HOUSE
PWC 1-2008	600150.858	5535264.827	+3.085 m	BOLT SET IN CONCRETE BOLLARD

ALL SOUNDINGS & ELEVATIONS IN METRES.

ALL SOUNDINGS & ELEVATIONS REFERRED TO CHS BM 01F9003 ELEV.+3.103 m (BRASS PLAQUE SET IN CONCRETE DECK).

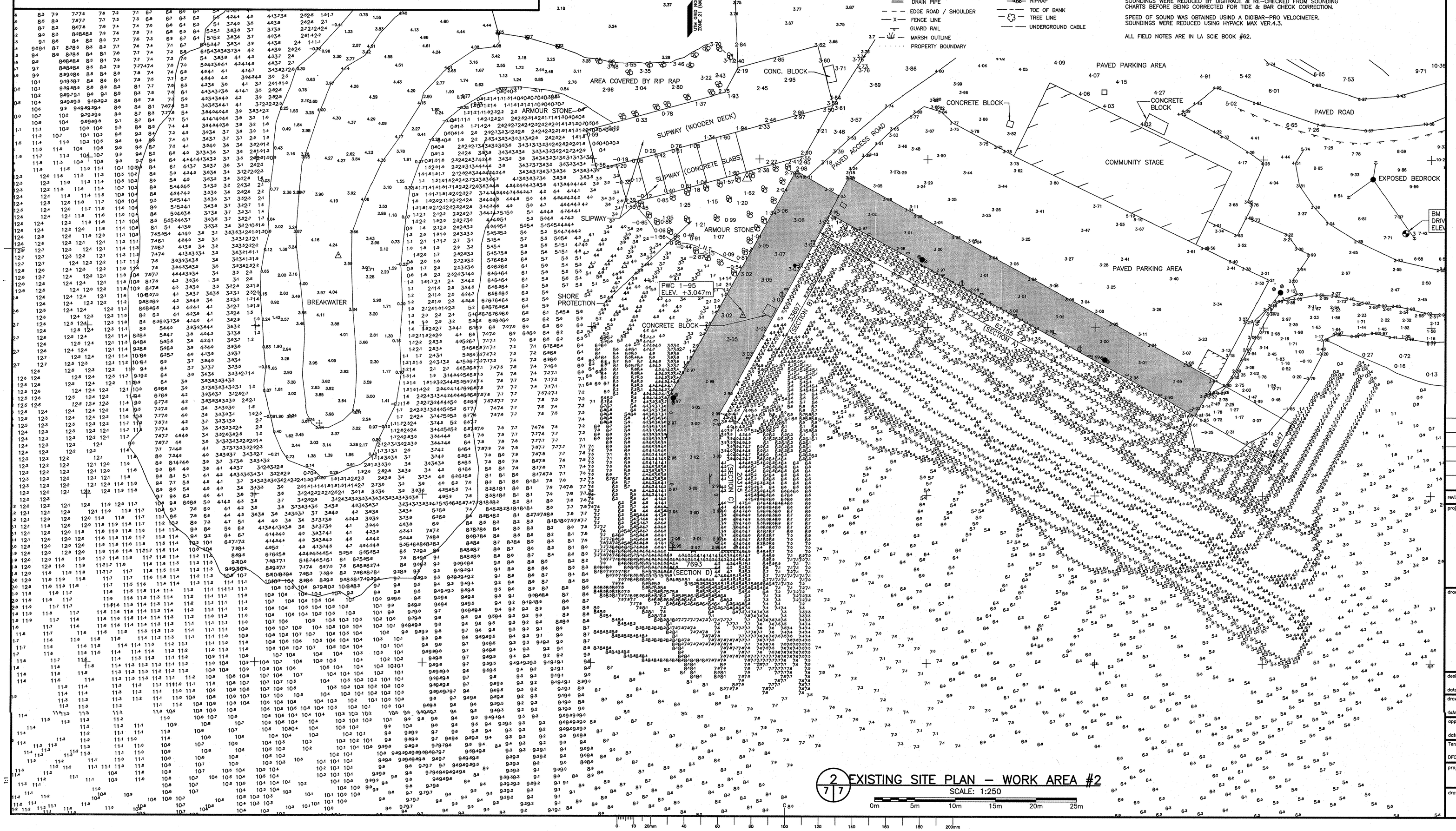
SOUNDINGS TAKEN USING NAVISOUND 210 ECHO SOUNDER AND POSITIONED BY TRIMBLE DIFFERENTIAL GPS POSITIONING SYSTEM NOVEMBER 13,2013 BY PWGSC SURVEY CREW.

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.

SPEED OF SOUND WAS OBTAINED USIND A DIGIBAR-PRO VELOCIMETER. SOUNDINGS WERE REDUCED USING HYPACK MAX VER.4.3.

ALL FIELD NOTES ARE IN LA SCIE BOOK #62.



2/77 EXISTING SITE PLAN – WORK AREA #2
SCALE: 1:250
0m 5m 10m 15m 20m 25m

Fisheries and Oceans Canada / Pêches et Océans Canada

SMALL CRAFT HARBOURS

REGISTERED PROFESSIONAL ENGINEER
PEGL Newfoundland and Labrador
CHAD Y. FISHER
20/06/11
NEWFOUNDLAND & LABRADOR

PROVINCE OF NEWFOUNDLAND AND LABRADOR
PEGL Newfoundland and Labrador
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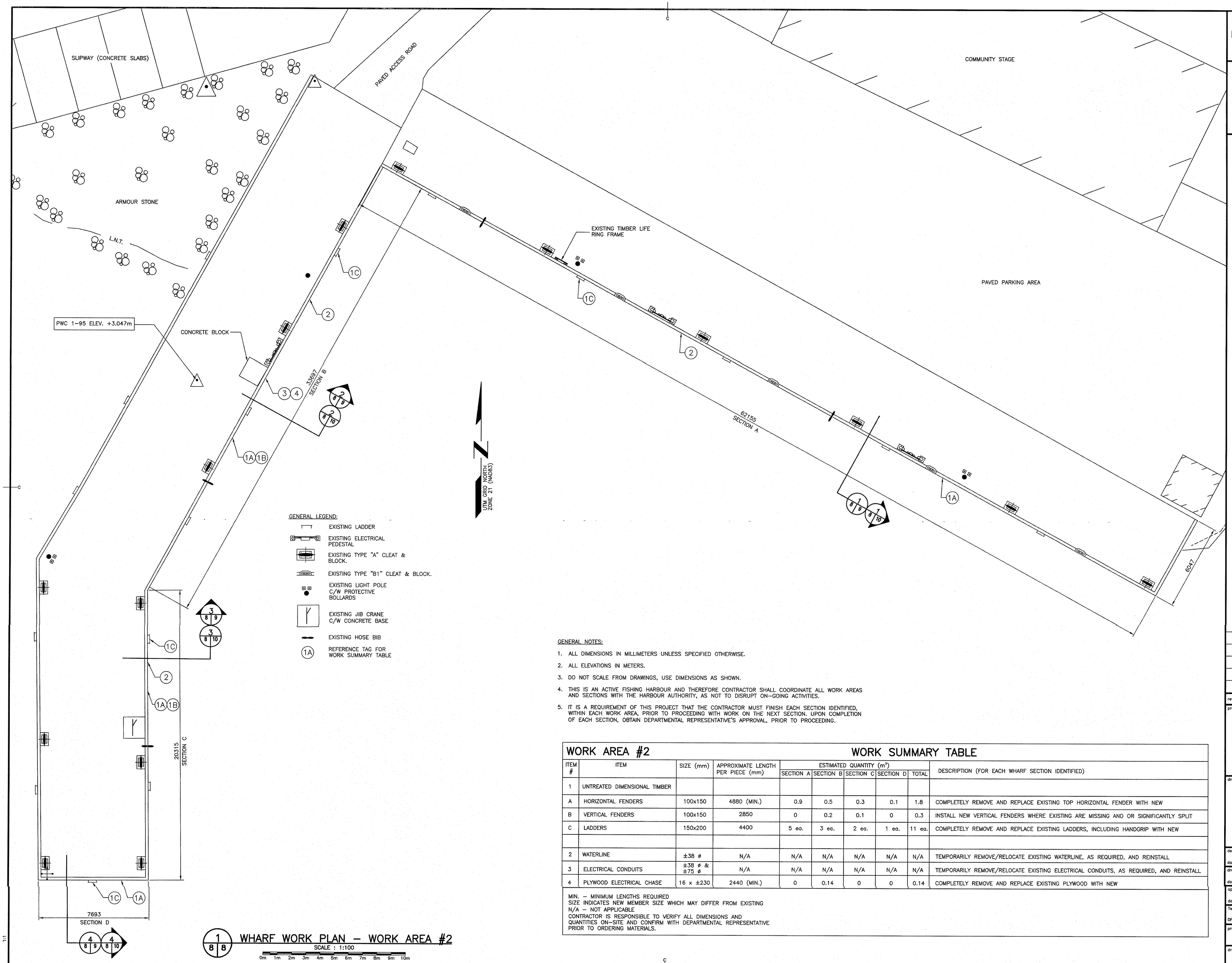
B	ISSUED FOR 66% REVIEW	20/06/02
A	ISSUED FOR 33% REVIEW	20/05/22

project / projet
WHARF REPAIRS LA SCIE, NL

drawing / dessin
EXISTING SITE PLAN WORK AREA #2

designed C. FISHER
date MAY, 2020
drawn R. SNOW
date MAY, 2020
approved
date
Tender / Soumission
DFO Project Manager / Administrateur de projets MPO
project number / no. du projet 723245
drawing no. / no. du dessin C7 OF 11



1 8 8 WHARF WORK PLAN – WORK AREA #2

SCALE : 1:100

0m 1m 2m 3m 4m 5m 6m 7m 8m 9m 10m

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5. IT IS A REQUIREMENT OF THIS PROJECT THAT THE CONTRACTOR MUST FINISH EACH SECTION IDENTIFIED, WITHIN EACH WORK AREA, PRIOR TO PROCEEDING WITH WORK ON THE NEXT SECTION. UPON COMPLETION OF EACH SECTION, OBTAIN DEPARTMENTAL REPRESENTATIVE'S APPROVAL, PRIOR TO PROCEEDING.

WORK AREA #2 — WORK SUMMARY TABLE

ITEM #	ITEM	SIZE (mm)	APPROXIMATE LENGTH PER PIECE (mm)	ESTIMATED QUANTITY (m^3) SECTION A	SECTION B	SECTION C	SECTION D	TOTAL	DESCRIPTION (FOR EACH WHARF SECTION IDENTIFIED)
1	UNTREATED DIMENSIONAL TIMBER								
A	HORIZONTAL FENDERS	100x150	4880 (MIN.)	0.9	0.5	0.3	0.1	1.8	COMPLETELY REMOVE AND REPLACE EXISTING TOP HORIZONTAL FENDER WITH NEW
B	VERTICAL FENDERS	100x150	2850	0	0.2	0.1	0	0.3	INSTALL NEW VERTICAL FENDERS WHERE EXISTING ARE MISSING AND OR SIGNIFICANTLY SPLIT
C	LADDERS	150x200	4400	5 ea.	3 ea.	2 ea.	1 ea.	11 ea.	COMPLETELY REMOVE AND REPLACE EXISTING LADDERS, INCLUDING HANDGRIP WITH NEW
2	WATERLINE	±38 ø	N/A	N/A	N/A	N/A	N/A	N/A	TEMPORARILY REMOVE/RELOCATE EXISTING WATERLINE, AS REQUIRED, AND REINSTALL
3	ELECTRICAL CONDUITS	±38 ø & ±75 ø	N/A	N/A	N/A	N/A	N/A	N/A	TEMPORARILY REMOVE/RELOCATE EXISTING ELECTRICAL CONDUITS, AS REQUIRED, AND REINSTALL
4	PLYWOOD ELECTRICAL CHASE	16 x ±230	2440 (MIN.)	0	0.14	0	0	0.14	COMPLETELY REMOVE AND REPLACE EXISTING PLYWOOD WITH NEW

MIN. – MINIMUM LENGTHS REQUIRED
SIZE INDICATES NEW MEMBER SIZE WHICH MAY DIFFER FROM EXISTING
N/A – NOT APPLICABLE
CONTRACTOR IS RESPONSIBLE TO VERIFY ALL DIMENSIONS AND QUANTITIES ON-SITE AND CONFIRM WITH DEPARTMENTAL REPRESENTATIVE PRIOR TO ORDERING MATERIALS.

Fisheries and Oceans Canada / Pêches et Océans Canada

SMALL CRAFT HARBOURS

REGISTERED PROFESSIONAL ENGINEER — PEG Newfoundland and Labrador — CHADWICK FISHER — 20/06/11 — NEWFOUNDLAND & LABRADOR

PROVINCE OF NEWFOUNDLAND AND LABRADOR
PERMIT HOLDER
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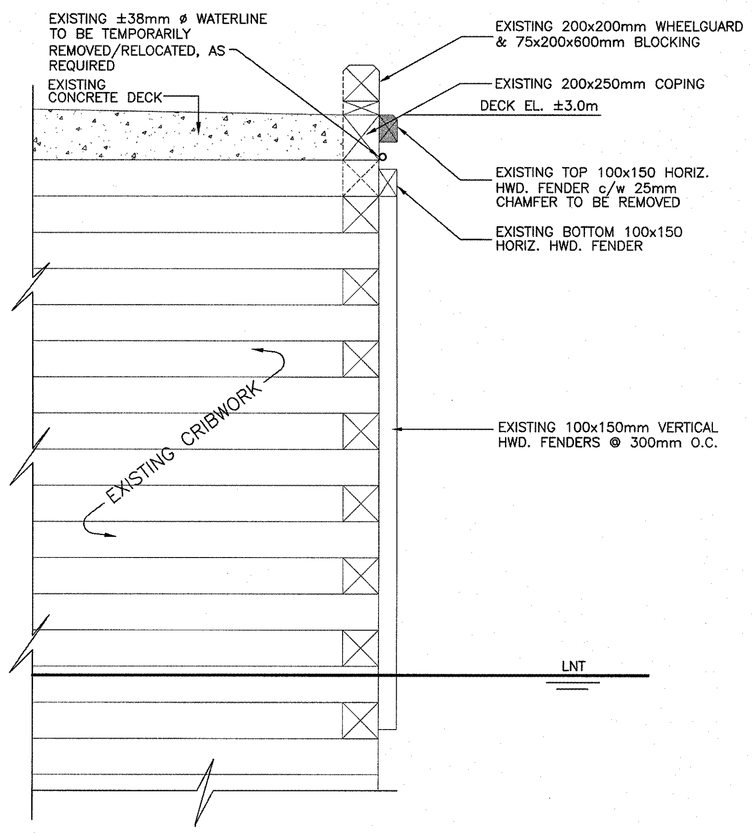
project / projet

WHARF REPAIRS LA SCIE, NL

drawing / dessin

WHARF WORK PLAN – WORK AREA #2

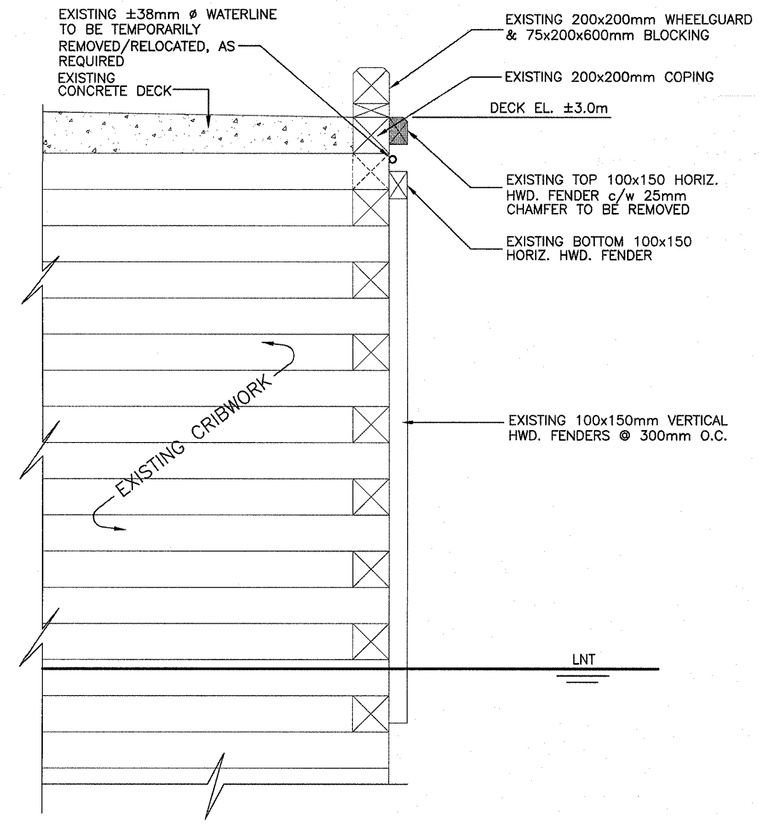
designed C. FISHER concu
date MAY, 2020
drawn R. SNOW dessine
date MAY, 2020
approved approuve
date
Tender Soumission
DFO Project Manager Administrateur de projets MPO
project number / no. du projet: 723245
drawing no. / no. du dessin: C8 OF 11



1 / 8 9 EXISTING DEMOLITION SECTION A

SCALE : 1:20

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



3 / 8 9 EXISTING DEMOLITION SECTION C

SCALE : 1:20

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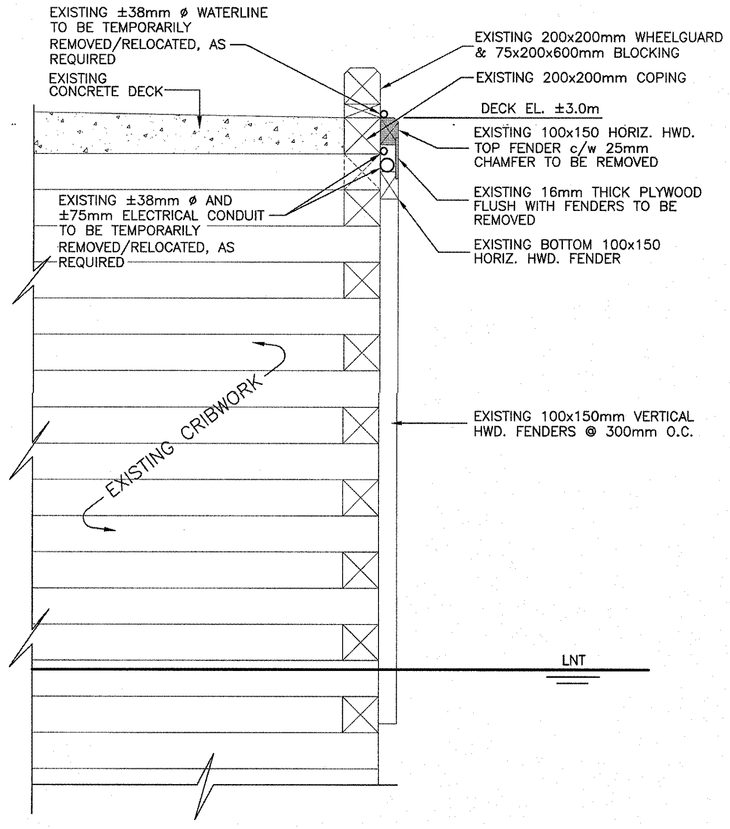

2 / 8 9 EXISTING DEMOLITION SECTION B

SCALE : 1:20

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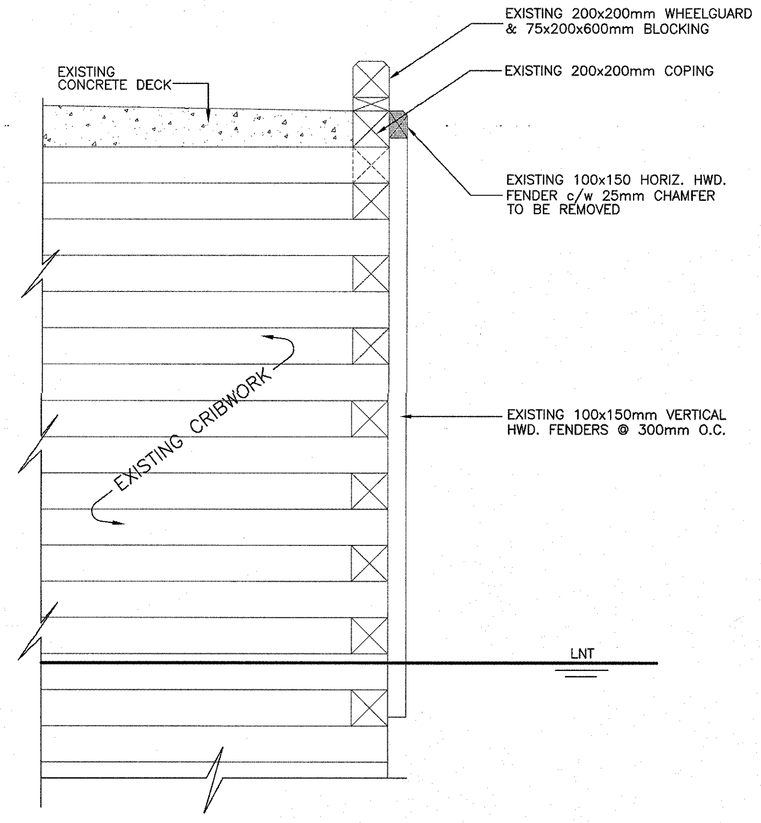

4 / 8 9 EXISTING DEMOLITION SECTION D

SCALE : 1:20

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

GENERAL NOTES:

1. ALL DIMENSIONS IN MILLIMETRES UNLESS SPECIFIED OTHERWISE.
2. ALL SOUNDINGS AND ELEVATIONS IN METRES UNLESS OTHERWISE SPECIFIED.
3. DO NOT SCALE FROM DRAWINGS, USE DIMENSIONS AS SHOWN.
4. THE CONTRACTOR SHALL DETERMINE WHAT SAFETY MEASURES NEED TO BE TAKEN DURING DEMOLITION/CONSTRUCTION ACTIVITIES.
5. ENSURE ALL ITEMS WHICH ARE DESIGNATED FOR REMOVAL ARE FULLY EXTRACTED IN THEIR ENTIRETY. CONTRACTOR TO DISPOSE OF ALL DEMOLISHED MATERIALS AT A PROVINCIALLY APPROVED WASTE DISPOSAL FACILITY.
6. RELIABLE AS-BUILT INFORMATION IS LIMITED. EXISTING WHARF PLANS AND SECTIONS ARE SHOWN FOR INFORMATION ONLY. CONTRACTOR TO BASE COSTS FOR DEMOLITION AND ASSOCIATED RISKS ACCORDINGLY.
7. THIS IS AN ACTIVE FISHING HARBOUR AND THEREFORE CONTRACTOR SHALL COORDINATE ALL WORK AREAS AND SECTIONS WITH THE HARBOUR AUTHORITY, AS NOT TO DISRUPT ON-GOING ACTIVITIES.
8. IT IS A REQUIREMENT OF THIS PROJECT THAT THE CONTRACTOR MUST FINISH EACH SECTION IDENTIFIED, WITHIN EACH WORK AREA, PRIOR TO PROCEEDING WITH WORK ON THE NEXT SECTION. UPON COMPLETION OF EACH SECTION, OBTAIN DEPARTMENTAL REPRESENTATIVE'S APPROVAL, PRIOR TO PROCEEDING.
9. REFER TO SECTION 02 41 16-SITE WORK, DEMOLITION AND REMOVAL.
10. CONTRACTOR SHALL AVOID DAMAGING EXISTING REMAINING COPING DURING DEMOLITION AND REMOVAL ACTIVITIES. ALL COPING DAMAGED, DURING CONSTRUCTION ACTIVITIES, WILL BE REPLACED AT THE CONTRACTOR'S OWN EXPENSE.
11. IF EITHER OF THE ELECTRICAL OR WATERLINE(S) HAVE TO BE DISCONNECTED DURING CONSTRUCTION ACTIVITIES, CONTRACTOR WILL BE REQUIRED TO PROVIDE AND MAINTAIN TEMPORARY ELECTRICAL POWER AND WATER TO THE AFFECTED AREAS.

LEGEND

DENOTES ITEMS TO BE COMPLETELY REMOVED AND DEMOLISHED

Fisheries and Oceans Canada / Pêches et Océans Canada

SMALL CRAFT HARBOURS

REGISTERED PROFESSIONAL ENGINEER PEGNL Newfoundland and Labrador CHARLY FISHER 20/06/11 NEWFOUNDLAND & LABRADOR

PROVINCE OF NEWFOUNDLAND AND LABRADOR
PEGNL Newfoundland and Labrador
PERMIT HOLDER
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Member No. 04378
To practice Professional Engineering in Newfoundland and Labrador.
Permit No. as issued by PEG N0453
which is valid for the year 2020.

revisions		date
D	ISSUED FOR TENDER	20/06/11
C	ISSUED FOR 99% REVIEW	20/06/09
B	ISSUED FOR 66% REVIEW	20/06/03
A	ISSUED FOR 33% REVIEW	20/05/22

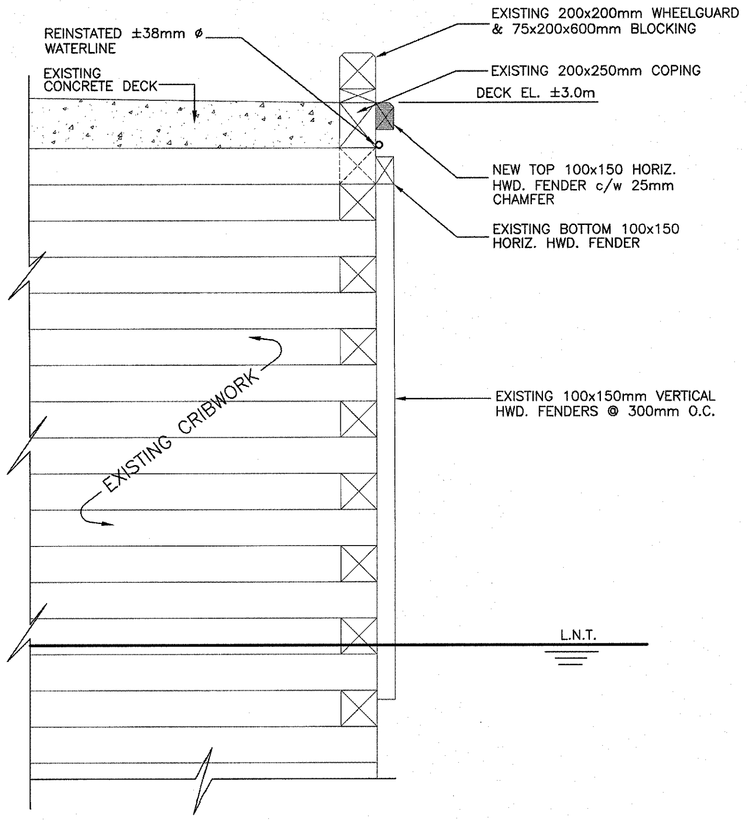
project / projet

WHARF REPAIRS LA SCIE, NL

drawing / dessin

EXISTING DEMOLITION SECTIONS WORK AREA #2

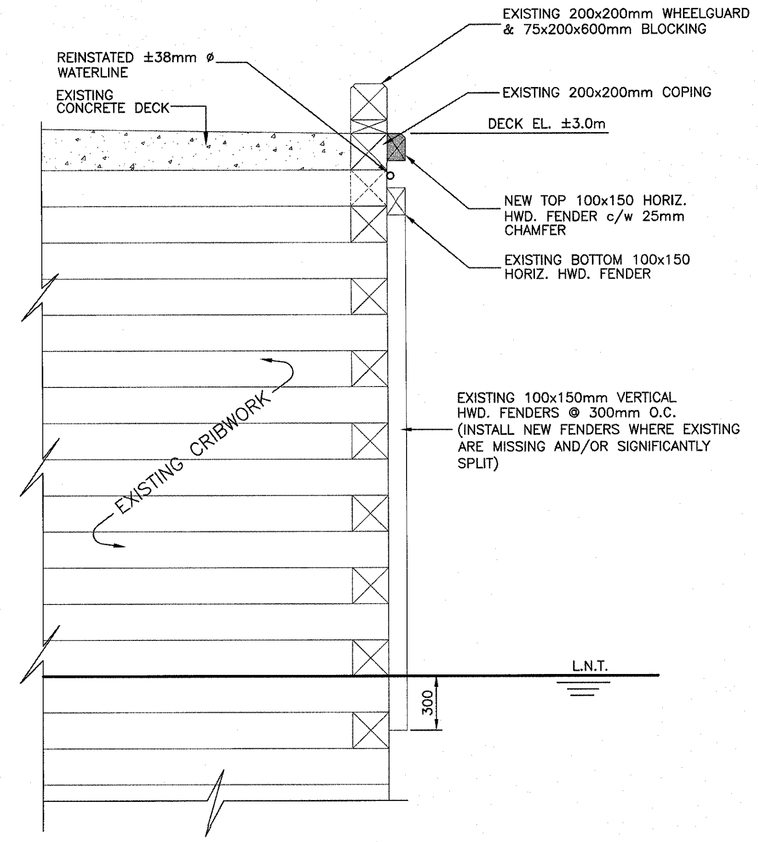
designed / concu: C. FISHER
date: APRIL, 2020
drawn / dessine: R. SNOW
date: APRIL, 2020
approved / approuve
date
Tender / Soumission: Paul Curran
DFO Project Manager / Administrateur de projets MPO
project number / no. du projet: 723245
drawing no. / no. du dessin: C9 OF 11



1 / 8 10 NEW SECTION A

SCALE : 1:20

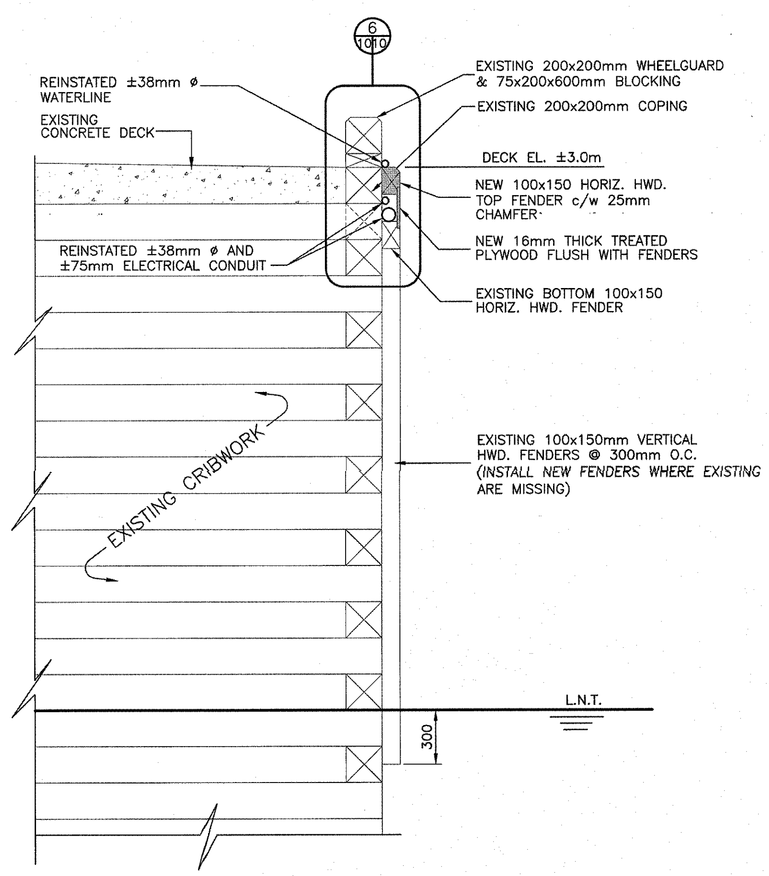
0mm 500mm 1000mm 1500mm 2000mm 2500mm



3 / 8 10 NEW SECTION C

SCALE : 1:20

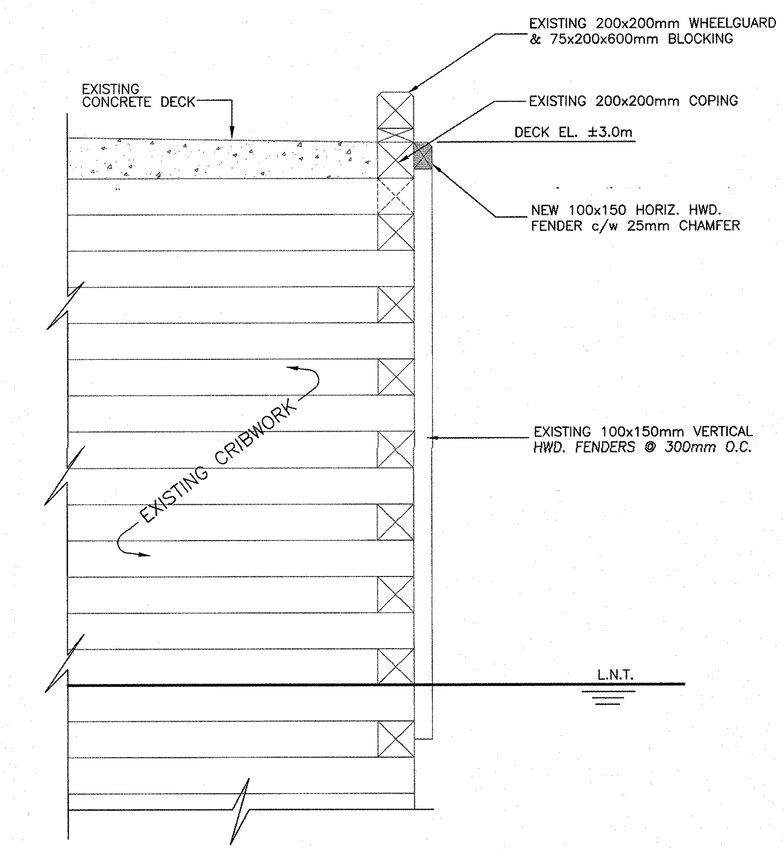
0mm 500mm 1000mm 1500mm 2000mm 2500mm



2 / 8 10 NEW SECTION B

SCALE : 1:20

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



4 / 8 10 NEW SECTION D

SCALE : 1:20

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

NOTES:

1. ALL DIMENSIONS IN MILLIMETRES UNLESS SPECIFIED OTHERWISE.
2. ALL ELEVATIONS IN METRES.
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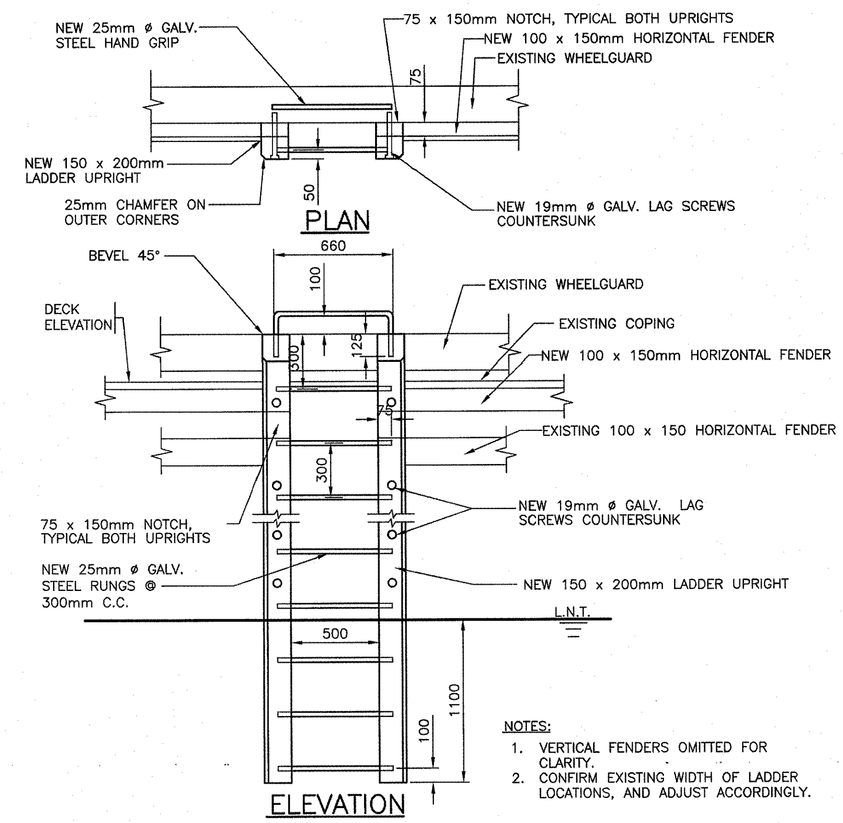
4. THIS IS AN ACTIVE FISHING HARBOUR AND THEREFORE CONTRACTOR SHALL COORDINATE ALL WORK AREAS AND SECTIONS WITH THE HARBOUR AUTHORITY, AS NOT TO DISRUPT ON-GOING ACTIVITIES.
5. IT IS A REQUIREMENT OF THIS PROJECT THAT THE CONTRACTOR MUST FINISH EACH SECTION IDENTIFIED, WITHIN EACH WORK AREA, PRIOR TO PROCEEDING WITH WORK ON THE NEXT SECTION. UPON COMPLETION OF EACH SECTION, OBTAIN DEPARTMENTAL REPRESENTATIVE'S APPROVAL, PRIOR TO PROCEEDING
6. ALL MACHINE BOLTS TO BE 19mm DIAMETER (GALVANIZED), UNLESS OTHERWISE NOTED.
7. ALL DRIFT BOLTS TO BE 19mm DIAMETER (GALVANIZED), UNLESS OTHERWISE NOTED.
8. ALL TIMBER TO BE TREATED TO CSA 080, LATEST EDITION, UNLESS OTHERWISE NOTED.
9. GALVANIZING WILL CONFORM TO ASTM A123/A123M, LATEST EDITION.
10. ALL LAG SCREWS TO BE GALVANIZED AND SIZED AS PER FOLLOWING:
    LADDER UPRIGHTS – 19mm ø
    FENDERING – 16mm ø
11. ALL EXISTING ELECTRICAL AND WATERLINES TO BE REINSTATED TO MATCH EXISTING SITE CONDITIONS, INCLUDING ALL HOOK-UPS, TRANSITIONS, BLOCKING, FASTENING CLIPS, FASTENERS, ETC. IF NECESSARY, PROVIDE NEW MATERIAL, WHERE EXISTING IS EITHER DAMAGED OR UNUSABLE, TO REINSTATE LINES.

LEGEND

DENOTES NEW ITEMS (DETAILS 1–4 AND 6)



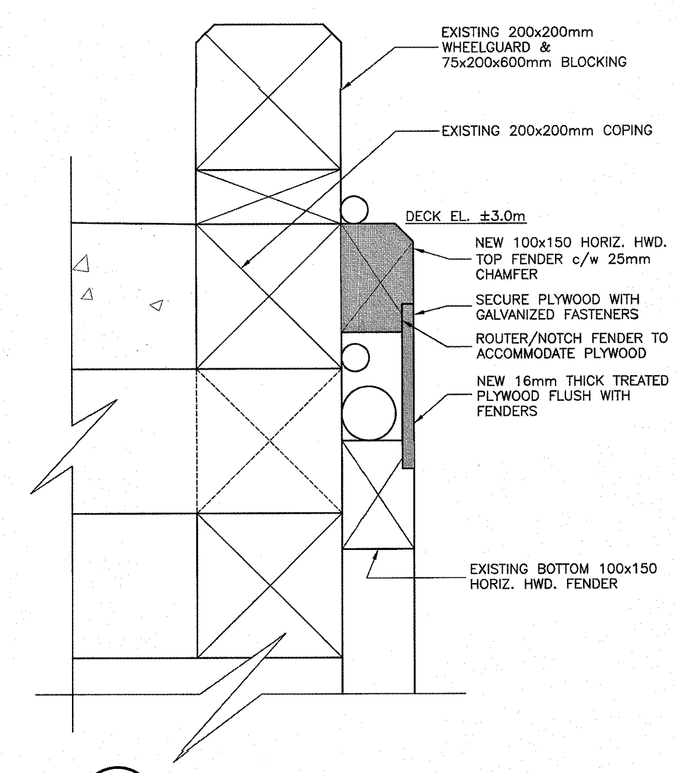
NOTES:

1. VERTICAL FENDERS OMITTED FOR CLARITY.
2. CONFIRM EXISTING WIDTH OF LADDER LOCATIONS, AND ADJUST ACCORDINGLY.

5 / 10 10 NEW LADDER DETAILS

SCALE : 1:20

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



6 / 10 10 PLYWOOD CHASE

SCALE: 1:5

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

Fisheries and Oceans Canada / Pêches et Océans Canada

SMALL CRAFT HARBOURS

REGISTERED PROFESSIONAL ENGINEER PEGL Newfoundland and Labrador CHARLY FISHER signature 20/06/11 date NEWFOUNDLAND & LABRADOR

PROVINCE OF NEWFOUNDLAND AND LABRADOR
PEGL Newfoundland and Labrador
PERMIT HOLDER
This Permit Allows
Meridian Engineering Inc.
Member No. 04378
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Permit No. as issued by PEG NO4378
which is valid for the year 2020.

revisions		date
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C	ISSUED FOR 99% REVIEW	20/06/09
B	ISSUED FOR 66% REVIEW	20/06/03
A	ISSUED FOR 33% REVIEW	20/05/22

project / projet

WHARF REPAIRS LA SCIE, NL

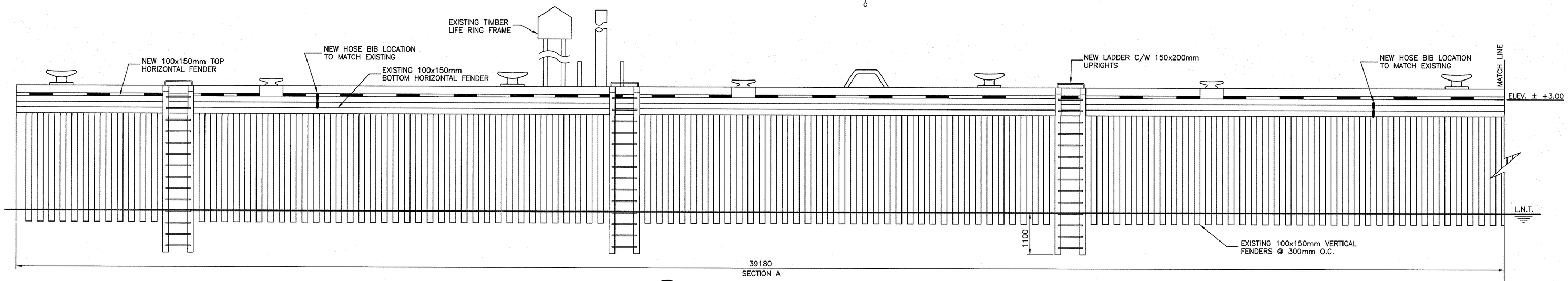
drawing / dessin

NEW SECTIONS AND DETAILS WORK AREA #2

designed C. FISHER / concu
date APRIL, 2020
drawn R. SNOW / dessine
date APRIL, 2020
approved / approuve
date
Tender / Soumission
DFO Project Manager / Administrateur de projets MPO

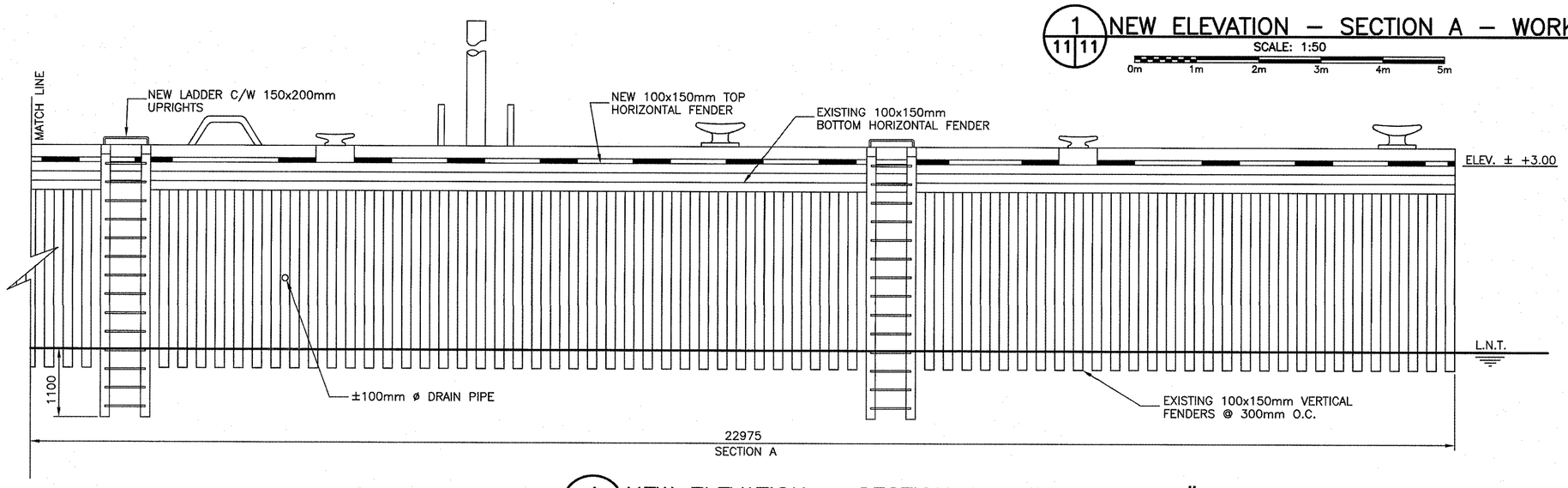
project number / no. du projet: 723245

drawing no. / no. du dessin: C10 OF 11



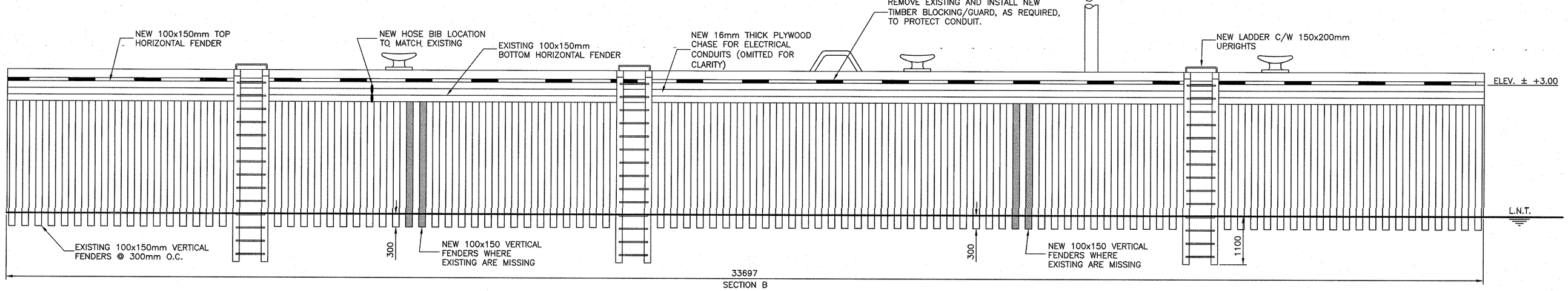
1 / 11|11 NEW ELEVATION – SECTION A – WORK AREA #2

SCALE: 1:50



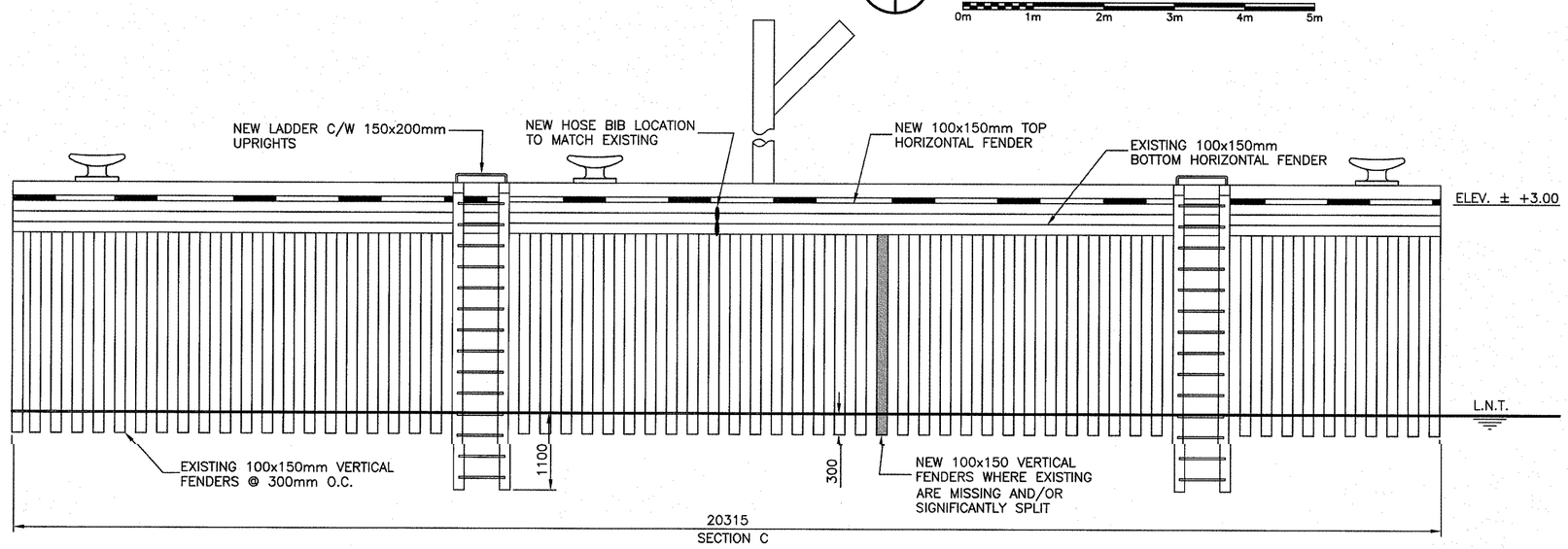
1 / 11|11 NEW ELEVATION – SECTION A – WORK AREA #2

SCALE: 1:50



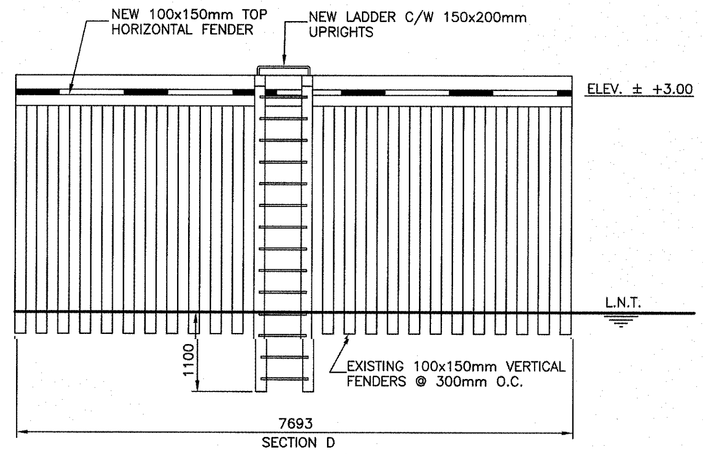
2 / 11|11 NEW ELEVATION – SECTION B – WORK AREA #2

SCALE: 1:50



3 / 11|11 NEW ELEVATION – SECTION C – WORK AREA #2

SCALE: 1:50



4 / 11|11 NEW ELEVATION – SECTION D – WORK AREA #2

SCALE: 1:50

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12. NOTCH/TERMINATE TOP HORIZONTAL FENDERS AT HOSE BIB LOCATIONS, AS REQUIRED, TO REINSTATE WATERLINE.

Fisheries and Oceans Canada / Pêches et Océans Canada

SMALL CRAFT HARBOURS

REGISTERED PROFESSIONAL ENGINEER
PEGL Newfoundland and Labrador
CHADY V. FISHER
signature 20/06/11
NEWFOUNDLAND & LABRADOR

PROVINCE OF NEWFOUNDLAND AND LABRADOR
PEGL Newfoundland and Labrador
PERMIT HOLDER
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B	ISSUED FOR 66% REVIEW	20/06/03
A	ISSUED FOR 33% REVIEW	20/05/22

project / projet

WHARF REPAIRS LA SCIE, NL

drawing / dessin

NEW ELEVATIONS WORK AREA #2

designed C. FISHER / concu
date MAY, 2020
drawn R. SNOW / dessine
date MAY, 2020
approved / approuve
date
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DFO Project Manager / Administrateur de projets MPO
project number / no. du projet
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C11 OF 11