



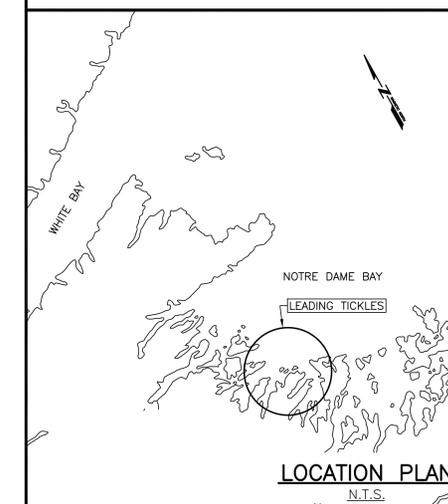
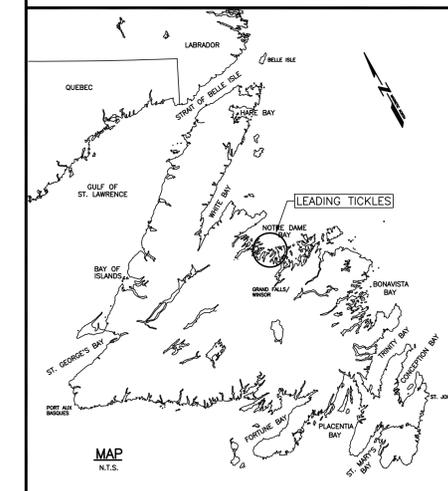
FISHERIES AND OCEANS
CANADA

SMALL CRAFT HARBOURS



WHARF REPAIRS
LEADING TICKLES
NEWFOUNDLAND AND LABRADOR

PROJECT No. C2-00087
RE-ISSUED FOR TENDER



LIST OF DRAWINGS:

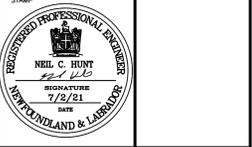
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SMALL CRAFT HARBOURS



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

PROVINCE OF NEWFOUNDLAND
 PERMIT HOLDER
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 APN ENGINEERING INC.
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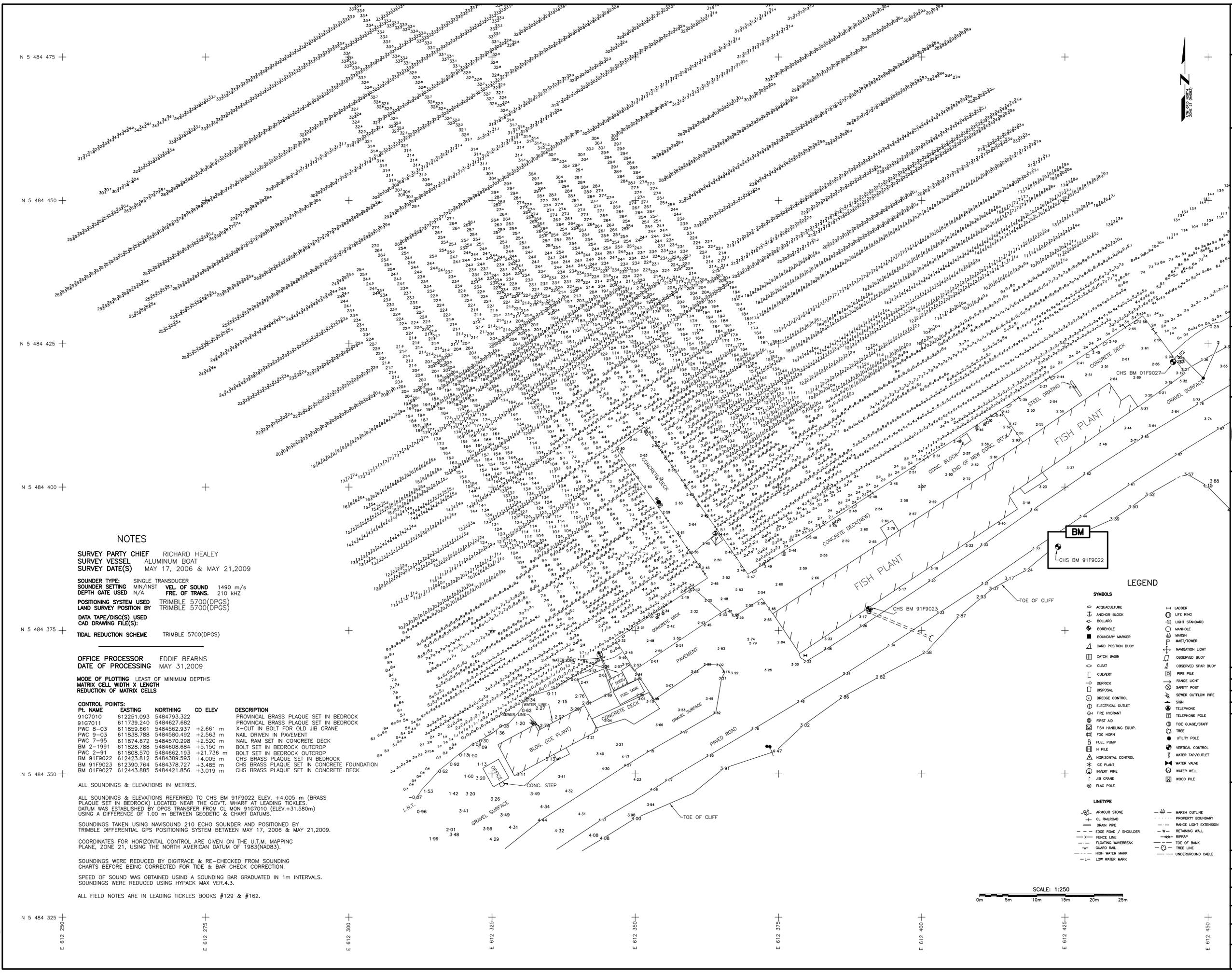


C	ISSUED FOR TENDER	7/2/21
B	RE-ISSUED FOR REVIEW	6/19/21
A	ISSUED FOR REVIEW	3/3/21
revisions		date

WHARF REPAIRS
 LEADING TICKLES, NL

SOUNDING AND TOPOGRAPHIC SURVEY

designed	N.H.	concu
date	JULY 2, 2021	
drawn	P.H.	dessine
date	JULY 2, 2021	
approved		approve
Tender		Submission
DFD Project Manager		
project number	C2-00087	no. du projet
drawing no.	C1	no. du dessin



NOTES

SURVEY PARTY CHIEF RICHARD HEALEY
 SURVEY VESSEL ALUMINUM BOAT
 SURVEY DATE(S) MAY 17, 2006 & MAY 21, 2009
 SOUNDER TYPE: SINGLE TRANSDUCER
 SOUNDER SETTING MIN/INST VEL OF SOUND 1490 m/s
 DEPTH GATE USED N/A FRE. OF TRANS. 210 KHZ
 POSITIONING SYSTEM USED TRIMBLE 5700(DPGS)
 LAND SURVEY POSITION BY TRIMBLE 5700(DPGS)
 DATA TAPE/DISC(S) USED
 CAD DRAWING FILE(S)
 TIDAL REDUCTION SCHEME TRIMBLE 5700(DPGS)

OFFICE PROCESSOR EDDIE BEARNS
 DATE OF PROCESSING MAY 31, 2009

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

CONTROL POINTS:

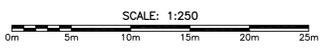
PT. NAME	EASTING	NORTHING	CD ELEV	DESCRIPTION
91G7010	612251.093	5484793.322		PROVINCIAL BRASS PLAQUE SET IN BEDROCK
91G7011	611739.240	5484627.682		PROVINCIAL BRASS PLAQUE SET IN BEDROCK
PWC 8-03	611859.661	5484562.937	+2.661 m	X-CUT IN BOLT FOR OLD JIB CRANE
PWC 9-03	611838.788	5484580.492	+2.563 m	NAIL DRIVEN IN PAVEMENT
PWC 7-95	611874.672	5484570.298	+2.520 m	NAIL RAM SET IN CONCRETE DECK
BM 2-1991	611928.788	5484608.684	+5.150 m	BOLT SET IN BEDROCK OUTCROP
PWC 2-91	611808.570	5484662.193	+21.736 m	BOLT SET IN BEDROCK OUTCROP
BM 91F9022	612423.812	5484389.593	+4.005 m	CHS BRASS PLAQUE SET IN BEDROCK
BM 91F9023	612390.764	5484378.727	+3.485 m	CHS BRASS PLAQUE SET IN CONCRETE FOUNDATION
BM 01F9027	612443.895	5484421.856	+3.019 m	CHS BRASS PLAQUE SET IN CONCRETE DECK

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 SOUNDINGS TAKEN USING NAVISOUND 210 ECHO SOUNDER AND POSITIONED BY TRIMBLE DIFFERENTIAL GPS POSITIONING SYSTEM BETWEEN MAY 17, 2006 & MAY 21, 2009.
 COORDINATES FOR HORIZONTAL CONTROL ARE GIVEN ON THE U.T.M. MAPPING PLANE, ZONE 21, USING THE NORTH AMERICAN DATUM OF 1983(NAD83).

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 ALL FIELD NOTES ARE IN LEADING TICKLES BOOKS #129 & #162.

LEGEND

- SYMBOLS**
- ANCHOR BLOCK
 - BOLLARD
 - BORHOLE
 - BOUNDARY MARKER
 - CARD POSITION BUOY
 - CATCH BASIN
 - CLEAT
 - CULVERT
 - DERRIK
 - DISPOSAL
 - DREDGE CONTROL
 - ELECTRICAL OUTLET
 - FIRE HYDRANT
 - FUEL PUMP
 - FIRST AID
 - FISH HANDLING EQUIP.
 - FOG HORN
 - H PILE
 - HORIZONTAL CONTROL
 - ICE PLANT
 - INVERT PIPE
 - JIB CRANE
 - FLAG POLE
 - ACQUACULTURE
 - LIFERING
 - LIGHT STANDARD
 - MANHOLE
 - MARSH
 - MAST/TOWER
 - NAVIGATION LIGHT
 - OBSERVED BUOY
 - OBSERVED SPAR BUOY
 - PIPE LINE
 - RANGE LIGHT
 - SAFETY POST
 - SEWER OUTFLOW PIPE
 - SON
 - TELEPHONE
 - TELEPHONE POLE
 - TIDE GAUGE/STAFF
 - TREE
 - UTILITY POLE
 - VERTICAL CONTROL
 - WATER IN/OUTLET
 - WATER VALVE
 - WATER WELL
 - WOOD PILE
- LINE TYPE**
- ARMOUR STONE
 - CL RAILROAD
 - DRAIN PIPE
 - EDGE ROAD / SHOULDER
 - FENCE LINE
 - FENCING
 - FLOATING WAVEBREAK
 - GUARD RAIL
 - HIGH WATER MARK
 - LOW WATER MARK
 - MARSH OUTLINE
 - PROPERTY BOUNDARY
 - RANGE LIGHT EXPOSED
 - RETAINING WALL
 - RIPRAP
 - TOE OF BANK
 - TREE LINE
 - UNDERGROUND CABLE

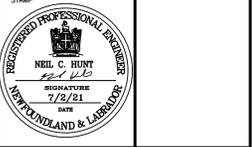


SMALL CRAFT HARBOURS



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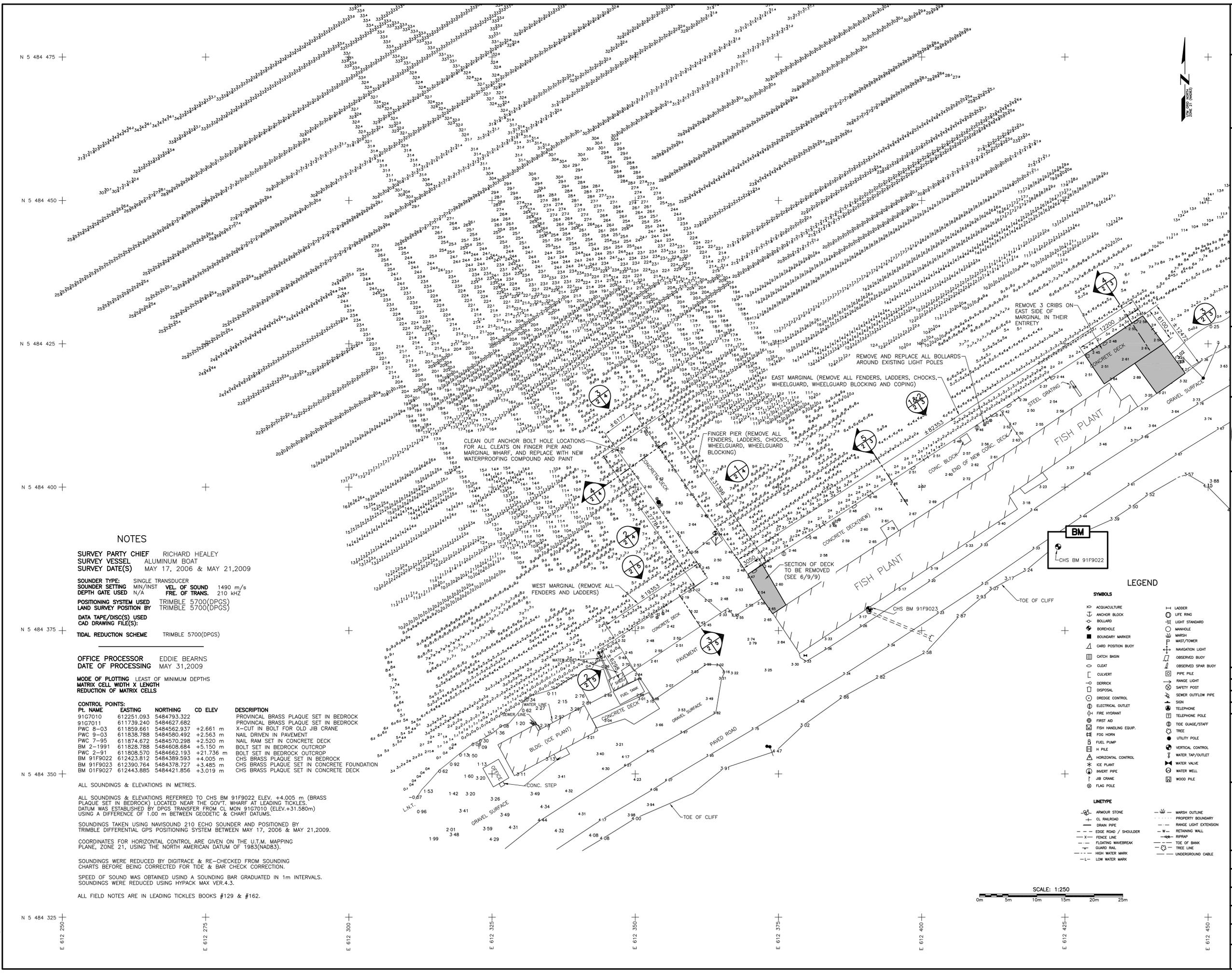


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WHARF REPAIRS
 LEADING TICKLES, NL

DEMOLITION PLAN

designed N.H. concu
 date JULY 2, 2021
 drawn P.H. dessine
 date JULY 2, 2021
 approved approve
 Tender Soumission
 DFO Project Manager
 project number no. du projet
C2-00087
 drawing no. no. du dessin
C2



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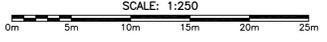
OFFICE PROCESSOR EDDIE BEARNS
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SMALL CRAFT HARBOURS



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 2. ALL DIMENSIONS ARE IN MILLIMETRES UNLESS OTHERWISE NOTED.

- NOTES:
1. SEE ELECTRICAL DRAWINGS FOR ALL ELECTRICAL DEMOLITION ITEMS.
 2. ALL CREOSOTE TIMBER TO BE DISPOSED OF AT A PROVINCIALLY APPROVED WASTE SITE SUCH AS NORRIS ARM.

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 PERMIT HOLDER
 This Permit Allows
 APN ENGINEERING INC.
 To practice Professional Engineering
 in Newfoundland and Labrador: 5011 ULO
 Permit No. as issued by APBNL F0282
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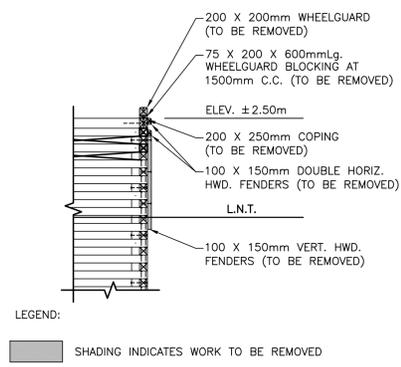
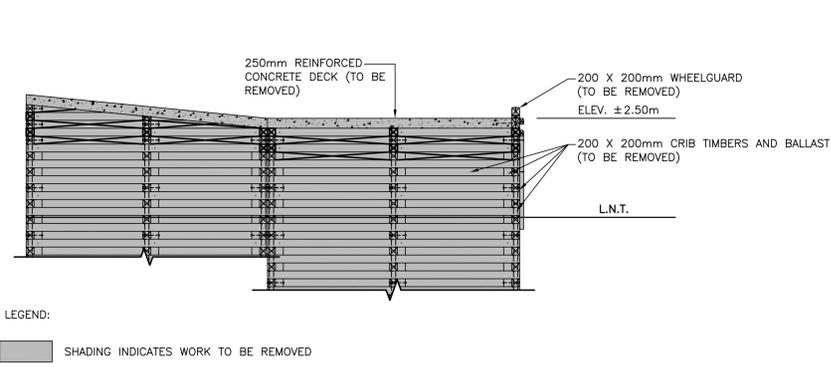
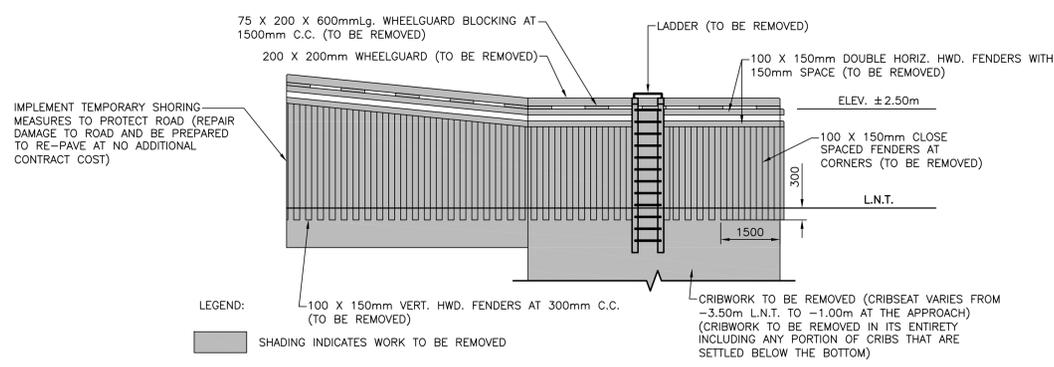
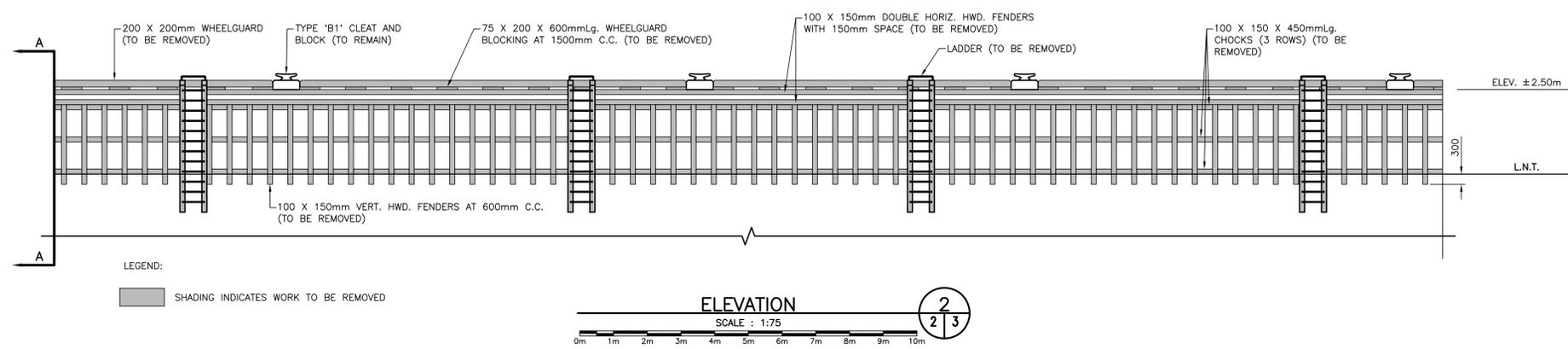
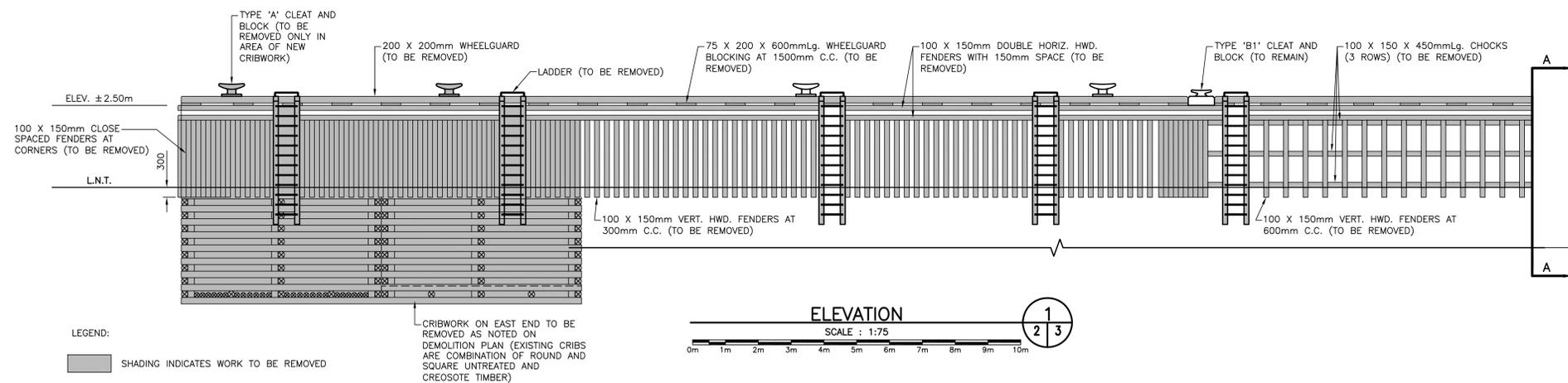
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B	RE-ISSUED FOR REVIEW	6/19/21
A	ISSUED FOR REVIEW	3/3/21
revisions		date

WHARF REPAIRS
 LEADING TICKLES, NL

DEMOLITION ELEVATIONS AND SECTIONS - EAST MARGINAL

designed N.H. concu
 date JULY 2, 2021
 drawn P.H. dessine
 date JULY 2, 2021
 approved approve

Tender Submission
 DFO Project Manager
 project number no. du projet
C2-00087
 drawing no. no. du dessin
C3



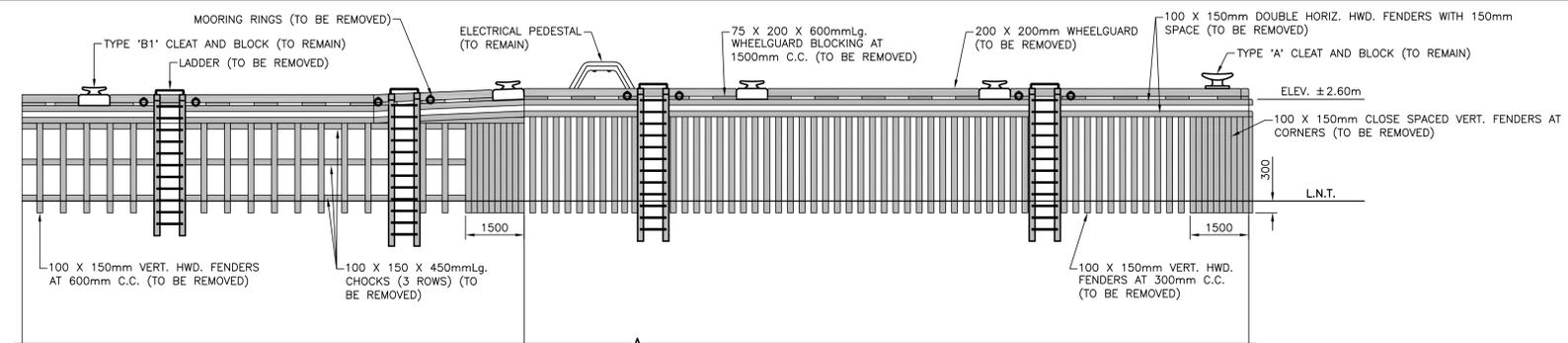
SMALL CRAFT HARBOURS



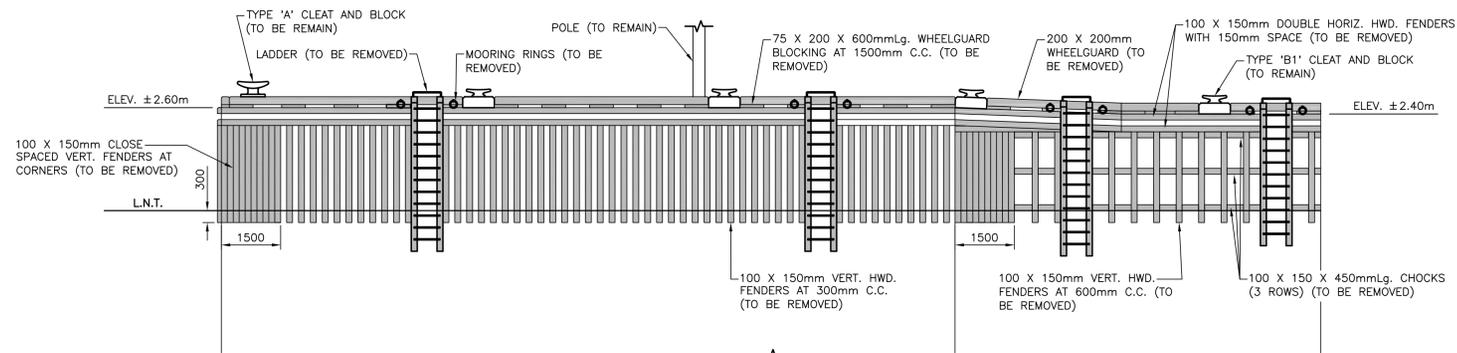
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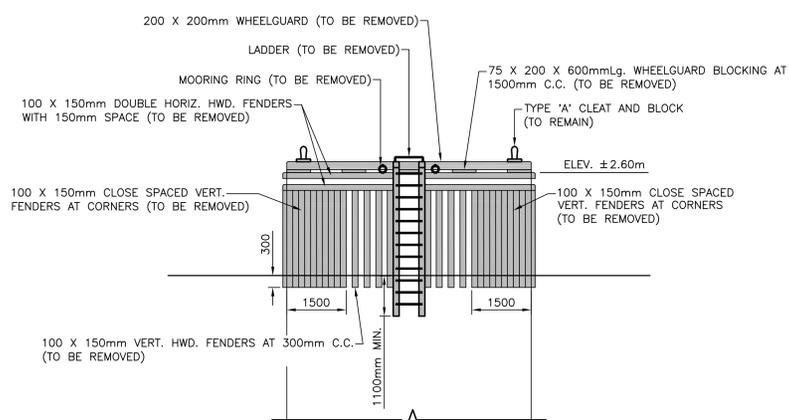
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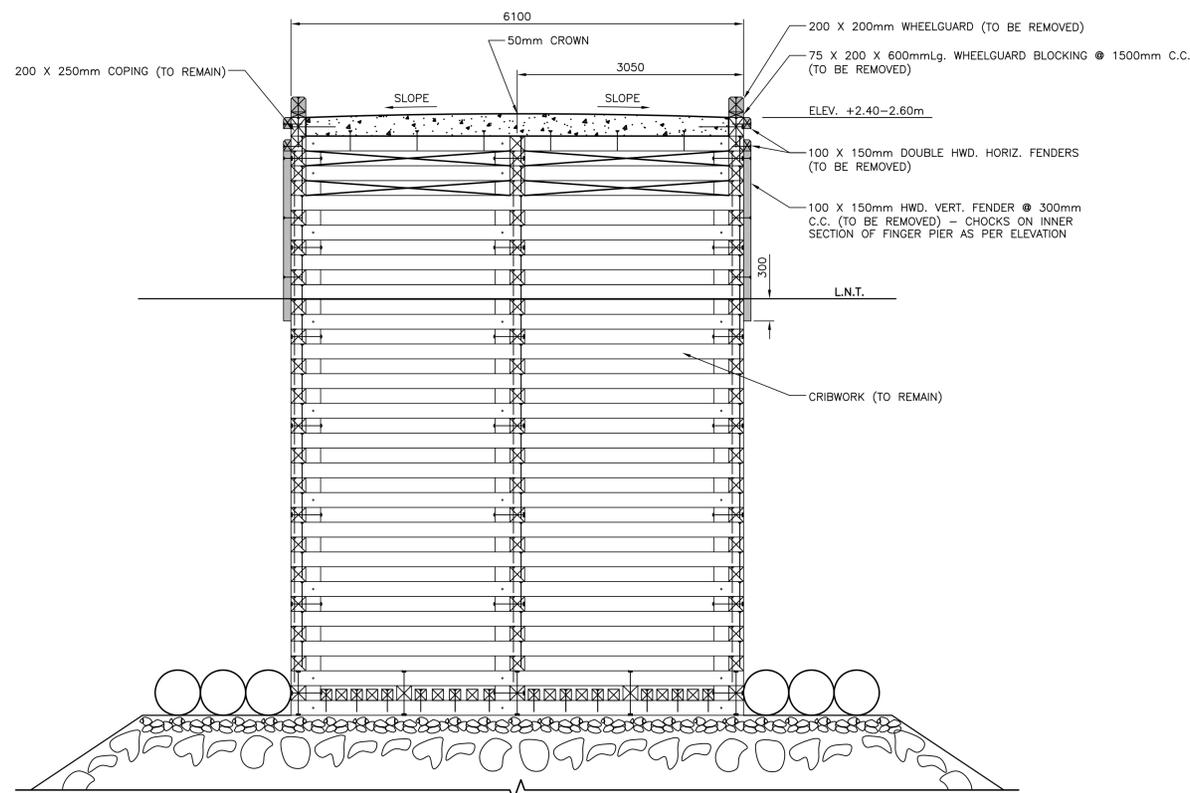
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 SHADING INDICATES WORK TO BE REMOVED



LEGEND:
 SHADING INDICATES WORK TO BE REMOVED



LEGEND:
 SHADING INDICATES WORK TO BE REMOVED



LEGEND:
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project	project	

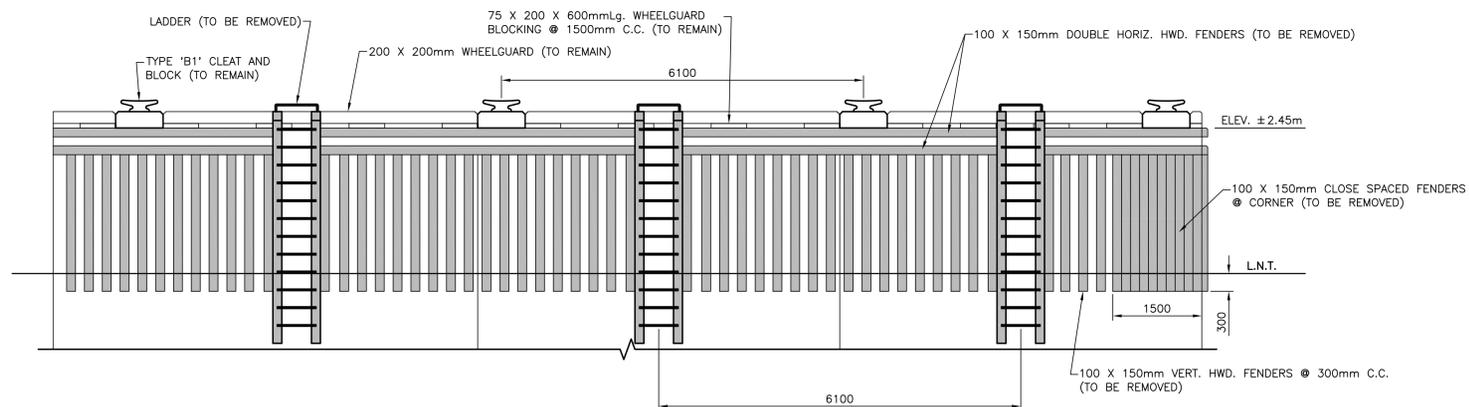
WHARF REPAIRS
 LEADING TICKLES, NL

DEMOLITION ELEVATIONS
 AND SECTION -
 FINGER PIER

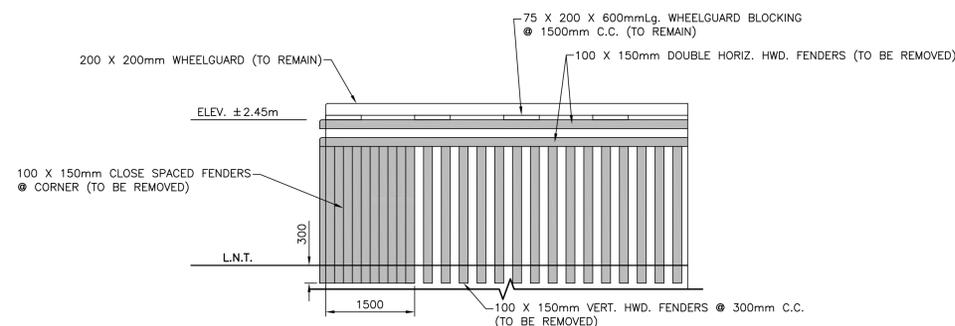
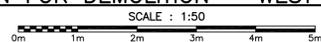
designed N.H.	concu
date JULY 2, 2021	
drawn P.H.	dessine
date JULY 2, 2021	
approved	approve
Tender	Submission
DFD Project Manager	
project number C2-00087	no. du projet
drawing no. C4	no. du dessin



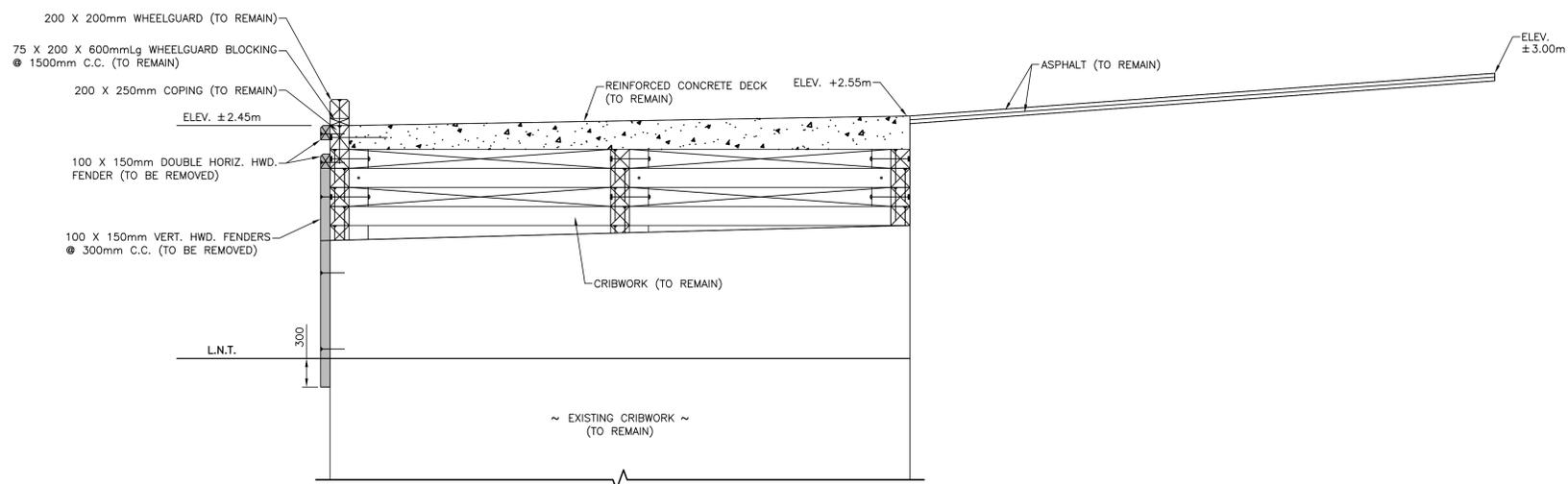
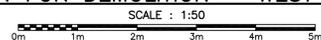
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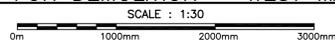
ELEVATION FOR DEMOLITION – WEST MARGINAL 1



ELEVATION FOR DEMOLITION – WEST MARGINAL 2



SECTION FOR DEMOLITION – WEST MARGINAL 3



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project		project

WHARF REPAIRS
 LEADING TICKLES, NL

drawing dessin

DEMOLITION ELEVATIONS
 AND SECTION –
 WEST MARGINAL

designed N.H. concu

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drawn P.H. dessine

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approved approve

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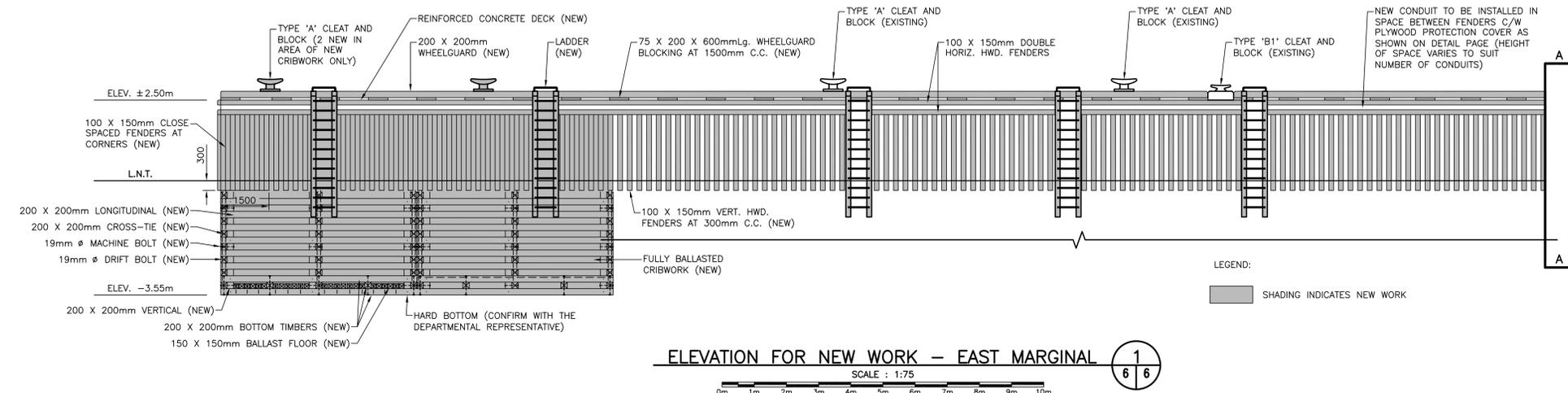
C5

SMALL CRAFT HARBOURS

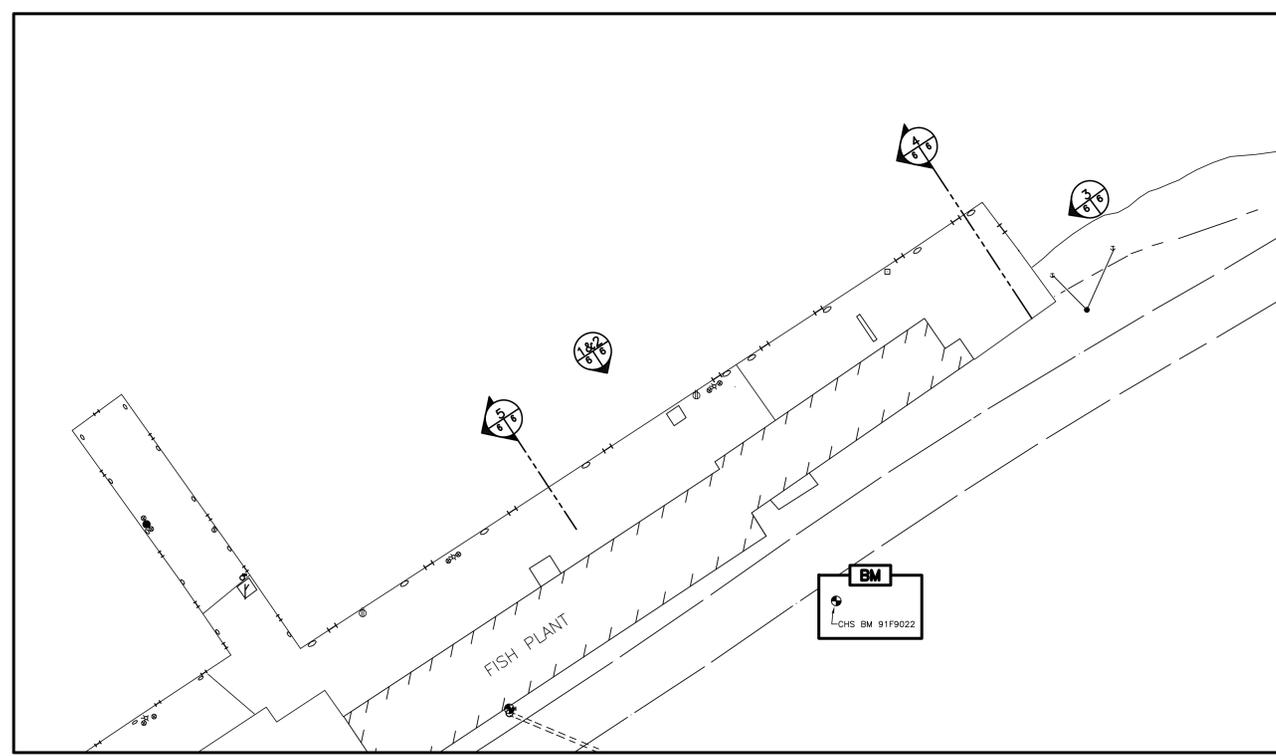
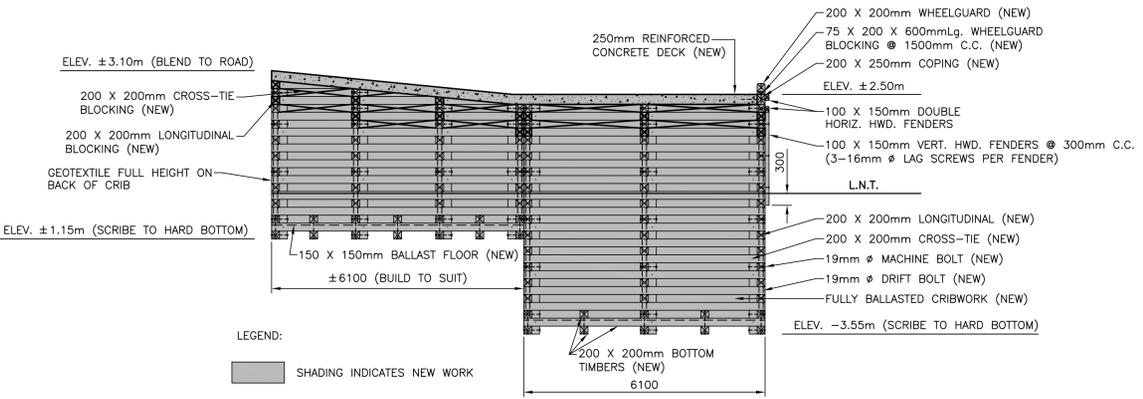
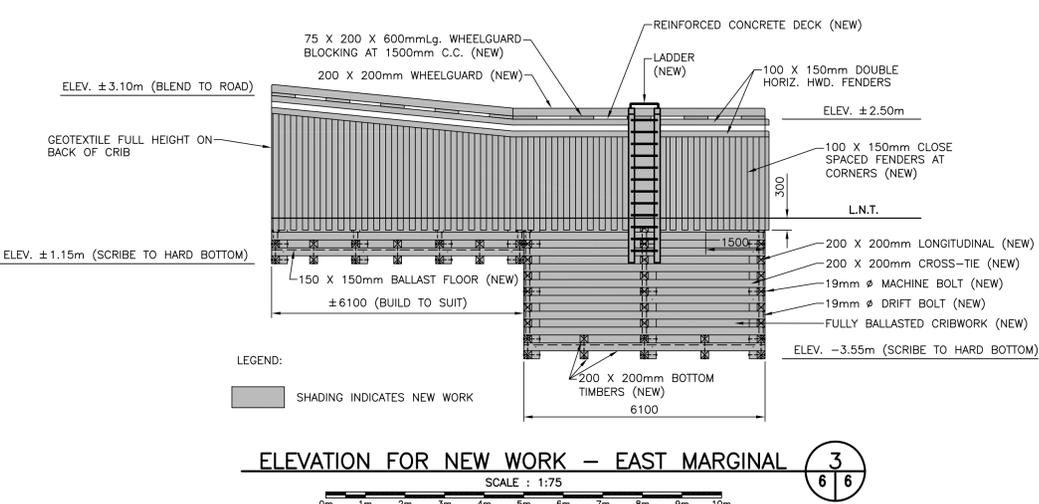
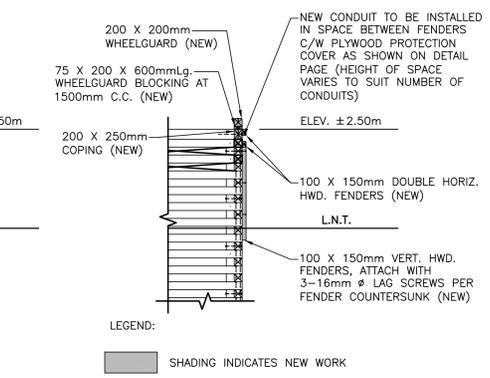
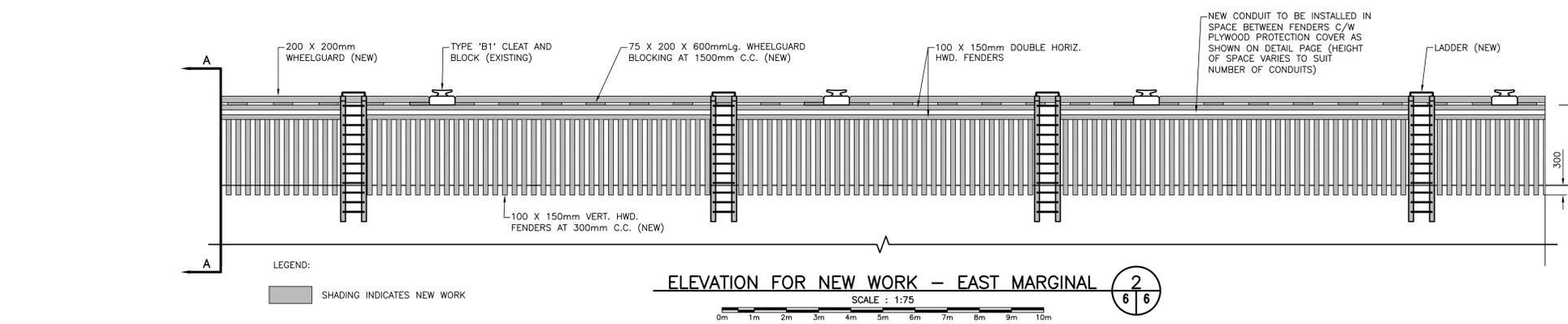


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NOTE:
 1. RE-INSTATE EXISTING MOORING RINGS ON NEW WHEELGUARD. LOCATION TO MATCH EXISTING.
 2. SEE ELECTRICAL PLAN FOR PEDESTAL, POLE AND JIB CRANE LOCATIONS.

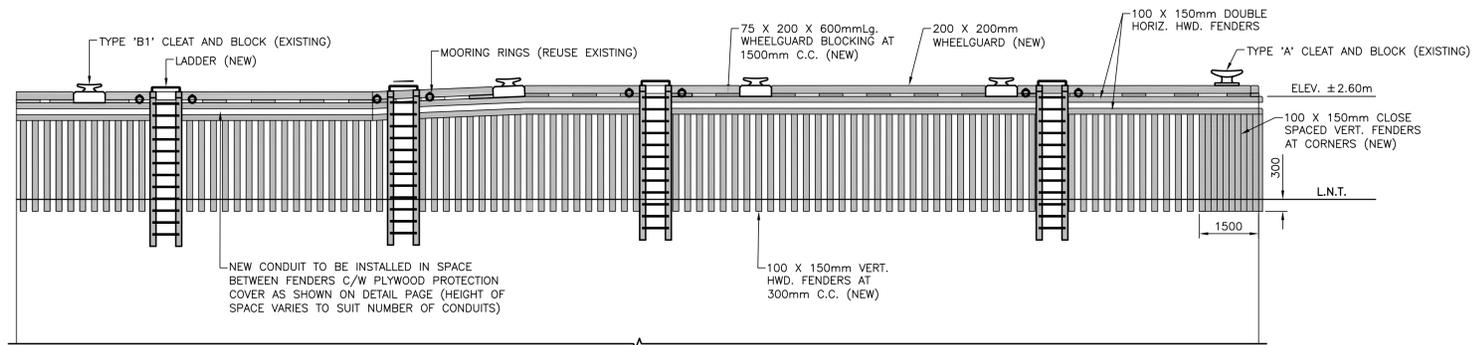


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WHARF REPAIRS
 LEADING TICKLES, NL

NEW ELEVATIONS AND SECTIONS - EAST MARGINAL

designed	N.H.	concu
date	JULY 2, 2021	
drawn	P.H.	dessine
date	JULY 2, 2021	
approved		approuve
Tender		Submission
DFO Project Manager		
project number	C2-00087	no. du projet
drawing no.	C6	no. du dessin

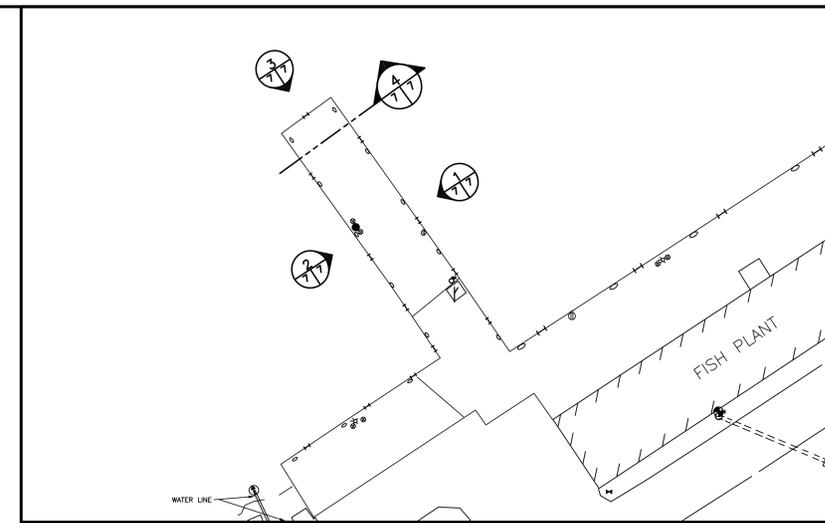


LEGEND:
 SHADING INDICATES NEW WORK

ELEVATION FOR NEW WORK – FINGER PIER 1/77

SCALE : 1:75
 0m 1m 2m 3m 4m 5m 6m 7m 8m 9m 10m

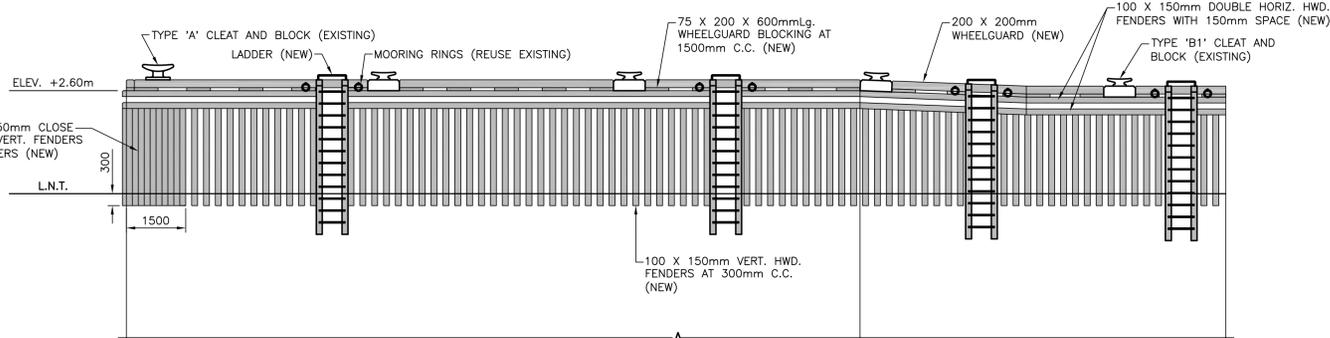
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KEY PLAN

SCALE : N.T.S.

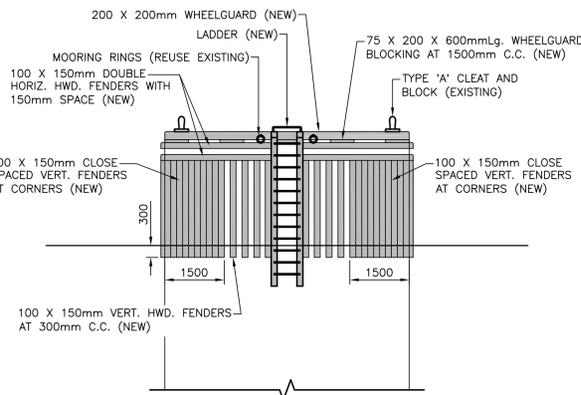
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ELEVATION FOR NEW WORK – FINGER PIER 2/77

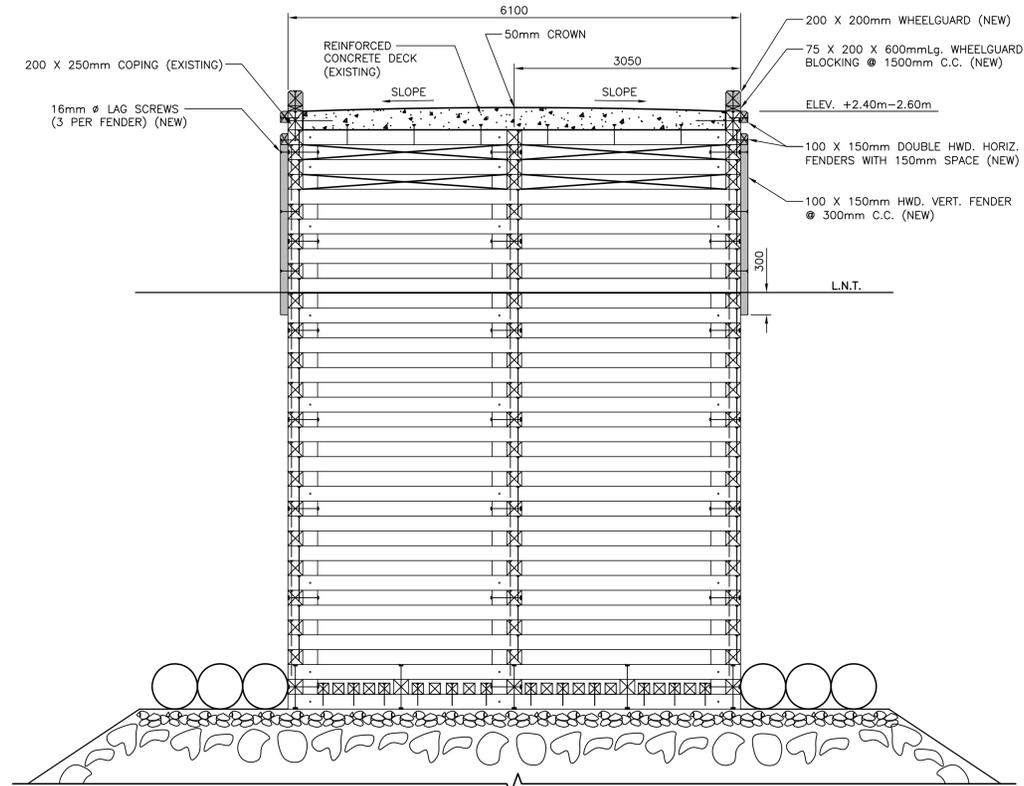
SCALE : 1:75
 0m 1m 2m 3m 4m 5m 6m 7m 8m 9m 10m



LEGEND:
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ELEVATION FOR NEW WORK – FINGER PIER 3/77

SCALE : 1:75
 0m 1m 2m 3m 4m 5m 6m 7m 8m 9m 10m



LEGEND:
 SHADING INDICATES NEW WORK

SECTION FOR NEW WORK – FINGER PIER 4/77

SCALE: 1:40
 0mm 1mm 2mm 3mm 4mm 5mm



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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C	ISSUED FOR TENDER	7/2/21
B	RE-ISSUED FOR REVIEW	6/19/21
A	ISSUED FOR REVIEW	3/3/21
revisions		date
project		project

WHARF REPAIRS
LEADING TICKLES, NL

NEW ELEVATIONS AND SECTION – FINGER PIER

designed N.H. concu
 date JULY 2, 2021
 drawn P.H. dessine
 date JULY 2, 2021
 approved
 approval

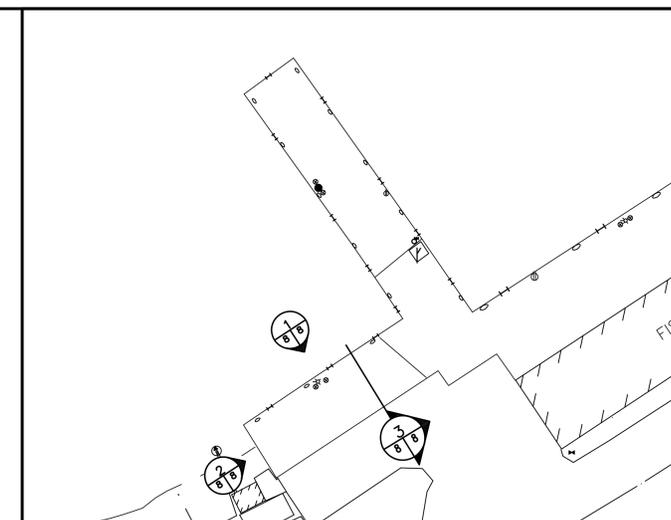
Tender Submission
 DFO Project Manager
 project number no. du projet
C2-00087

drawing no. no. du dessin
C7

SMALL CRAFT HARBOURS



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



KEY PLAN

SCALE : N.T.S.

- NOTE:
1. RE-INSTATE EXISTING MOORING RINGS ON NEW WHEELGUARD. LOCATION TO MATCH EXISTING. WHERE EXISTING MOORING RINGS ARE DAMAGED OR HAVE BEEN LET GO FROM THE STRUCTURE, SUPPLY AND INSTALL NEW.

PROVINCE OF NEWFOUNDLAND
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A	ISSUED FOR REVIEW	3/3/21
revisions		date
project		projct

WHARF REPAIRS
LEADING TICKLES, NL

drawing dessin

NEW ELEVATION
AND SECTION -
WEST MARGINAL

designed N.H. concu

date JULY 2, 2021

drawn P.H. dessine

date JULY 2, 2021

approved approve

Tender Submission

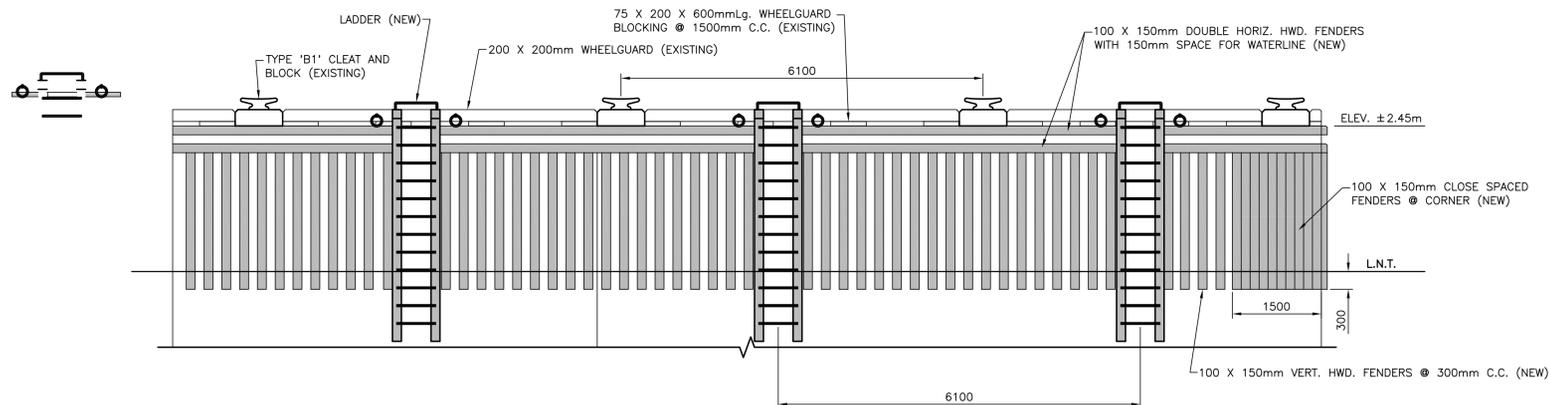
DFO Project Manager

project number no. du projet

C2-00087

drawing no. no. du dessin

C8



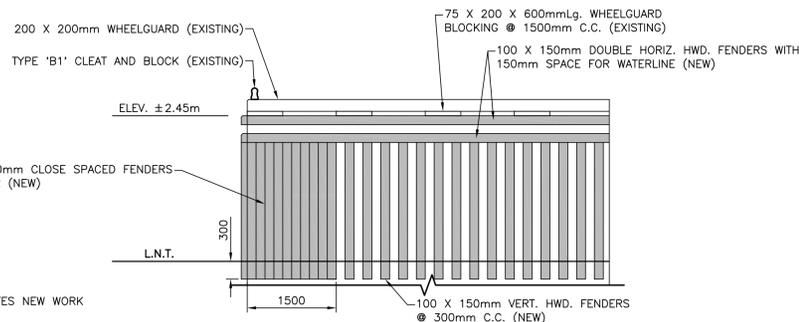
ELEVATION FOR NEW WORK - WEST MARGINAL

1
8 | 8

SCALE : 1:50



LEGEND:
SHADING INDICATES NEW WORK



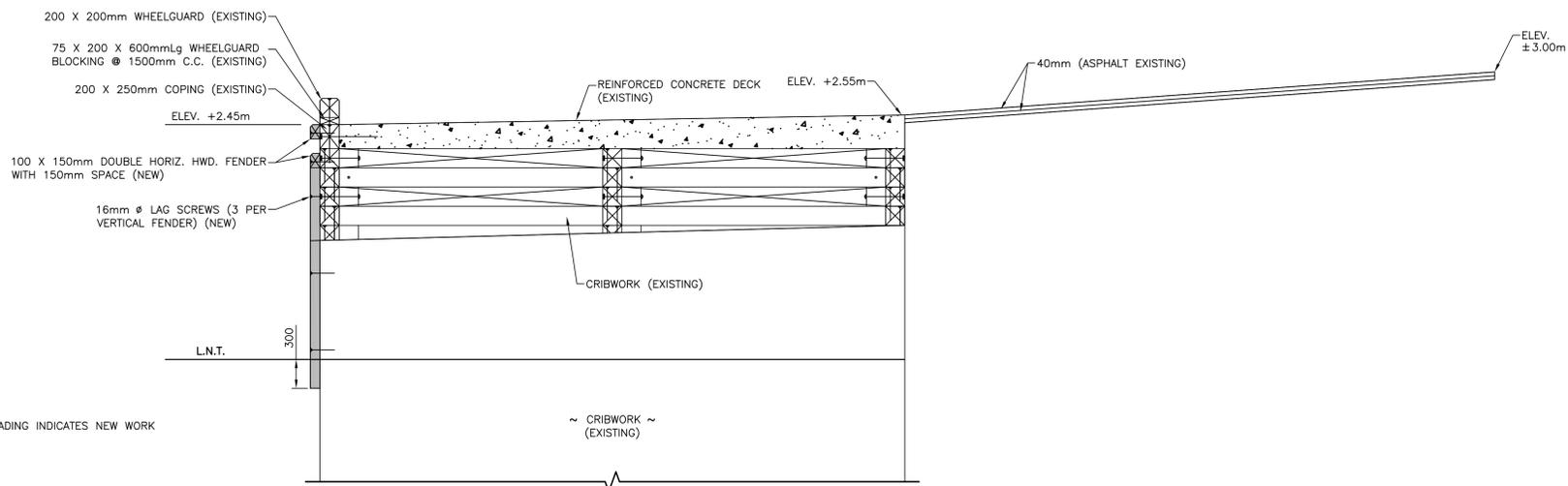
ELEVATION FOR NEW WORK - WEST MARGINAL

2
8 | 8

SCALE : 1:50



LEGEND:
SHADING INDICATES NEW WORK



SECTION FOR NEW WORK - WEST MARGINAL

3
8 | 8

SCALE : 1:30



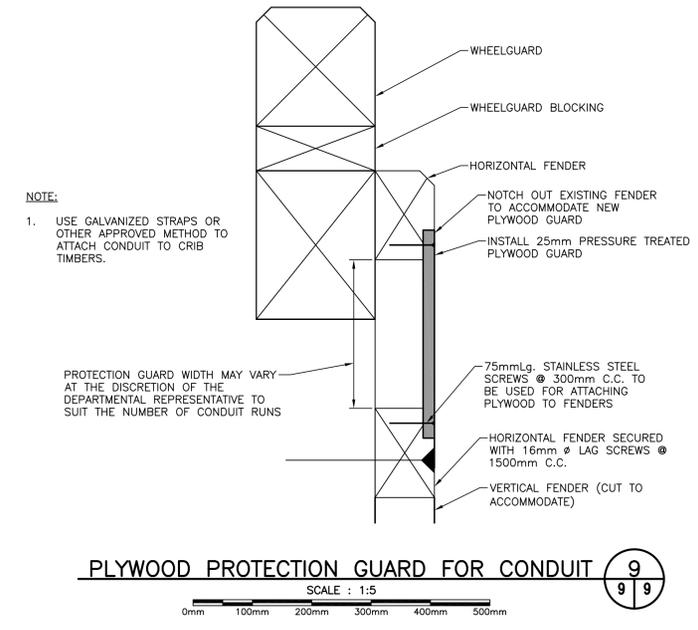
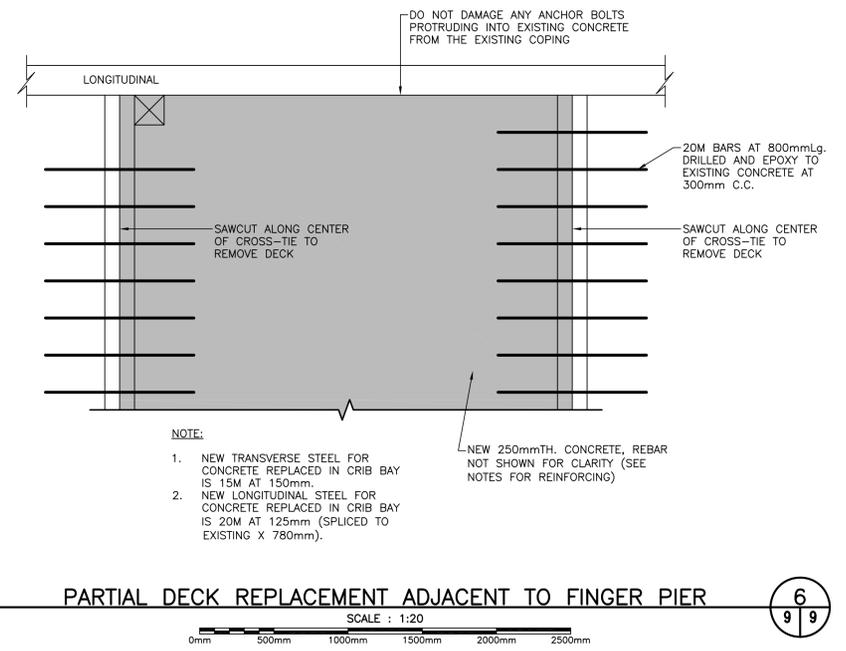
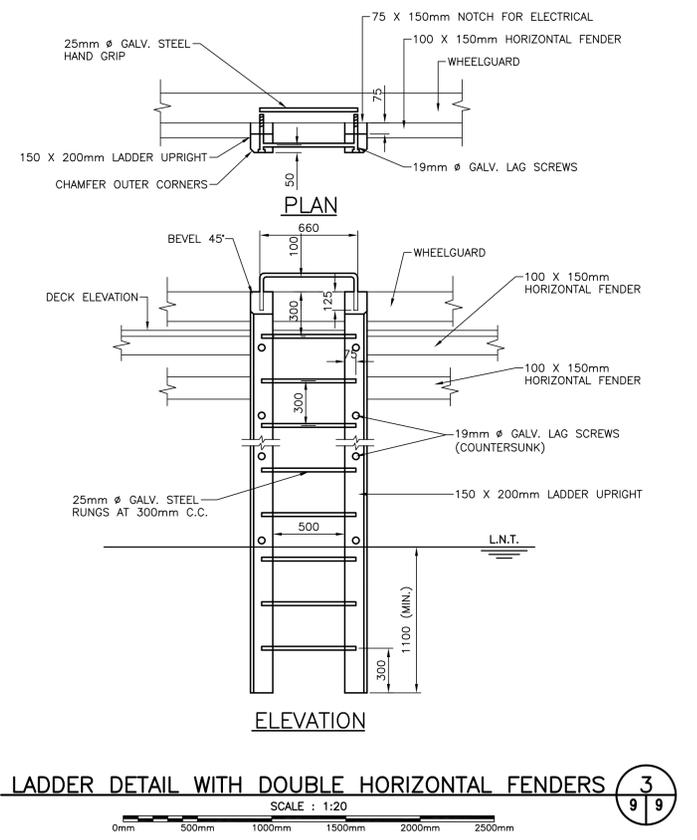
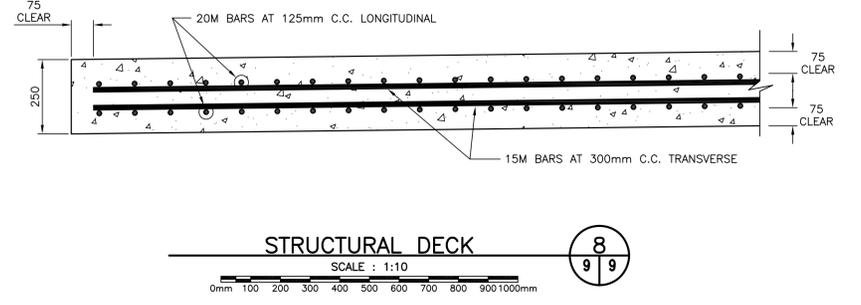
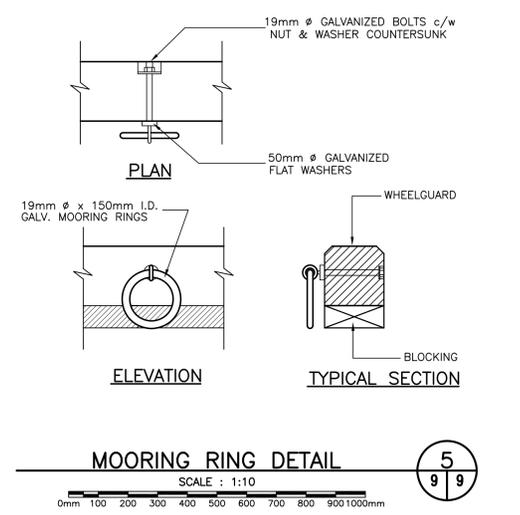
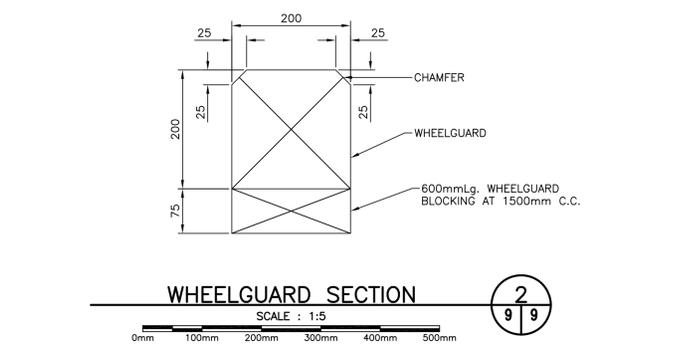
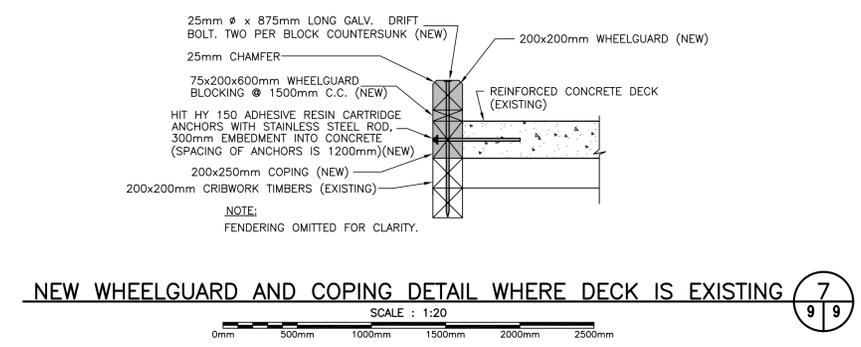
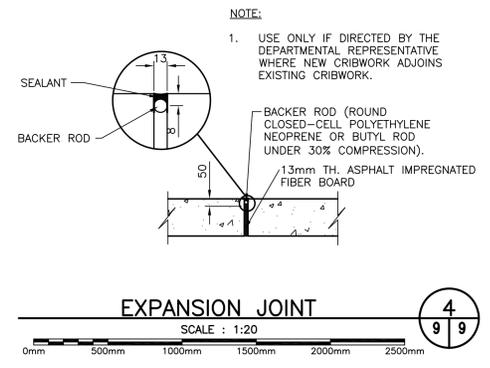
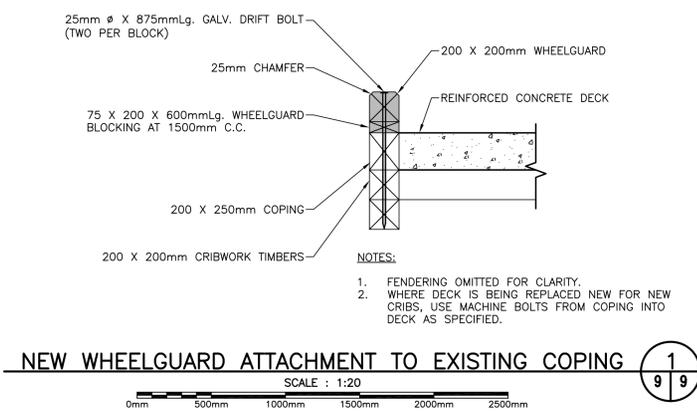
LEGEND:
SHADING INDICATES NEW WORK

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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Plot Scale: PLOT_SCALE

C	ISSUED FOR TENDER	7/2/21
B	RE-ISSUED FOR REVIEW	6/19/21
A	ISSUED FOR REVIEW	3/3/21
revisions		date
project		project
WHARF REPAIRS LEADING TICKLES, NL		
drawing		design
MISCELLANEOUS DETAILS		
designed	N.H.	concu
date	JULY 2, 2021	
drawn	P.H.	desine
date	JULY 2, 2021	
approved		approve
Tender		Submission
DFO Project Manager		
project number	C2-00087	no. du projet
drawing no.	C9	no. du dessin

SMALL CRAFT HARBOURS



- NOTES:
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 in Newfoundland and Labrador. *Neil C. Hunt*
 Permit No. as issued by APBNL F0282
 which is valid for the year 2021.



C	ISSUED FOR TENDER	7/2/21
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A	ISSUED FOR REVIEW	3/3/21
revisions		date

project _____ projet _____

WHARF REPAIRS
 LEADING TICKLES, NL

drawing _____ dessin _____

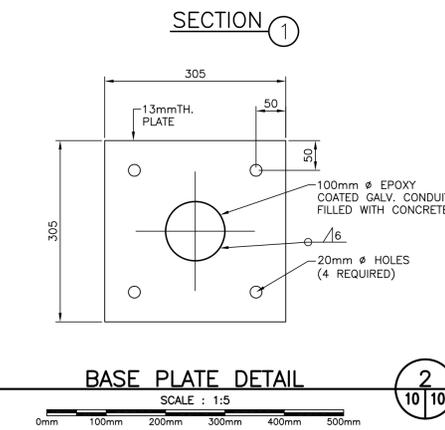
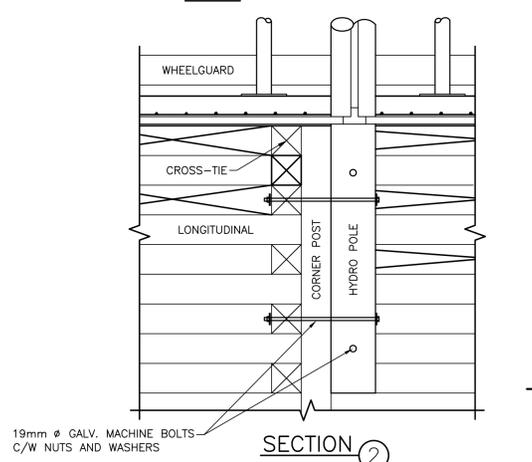
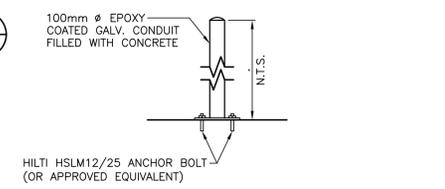
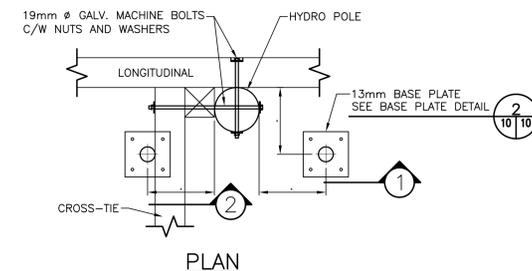
MISCELLANEOUS
 DETAILS

designed N.H. _____ conceu _____
 date JULY 2, 2021
 drawn P.H. _____ dessiné _____
 date JULY 2, 2021
 approved _____ approuvé _____

Tender _____ Soumission _____

DFD Project Manager
 project number C2-00087 no. du projet

drawing no. C10 no. du dessin



SMALL CRAFT HARBOURS



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PROVINCE OF NEWFOUNDLAND
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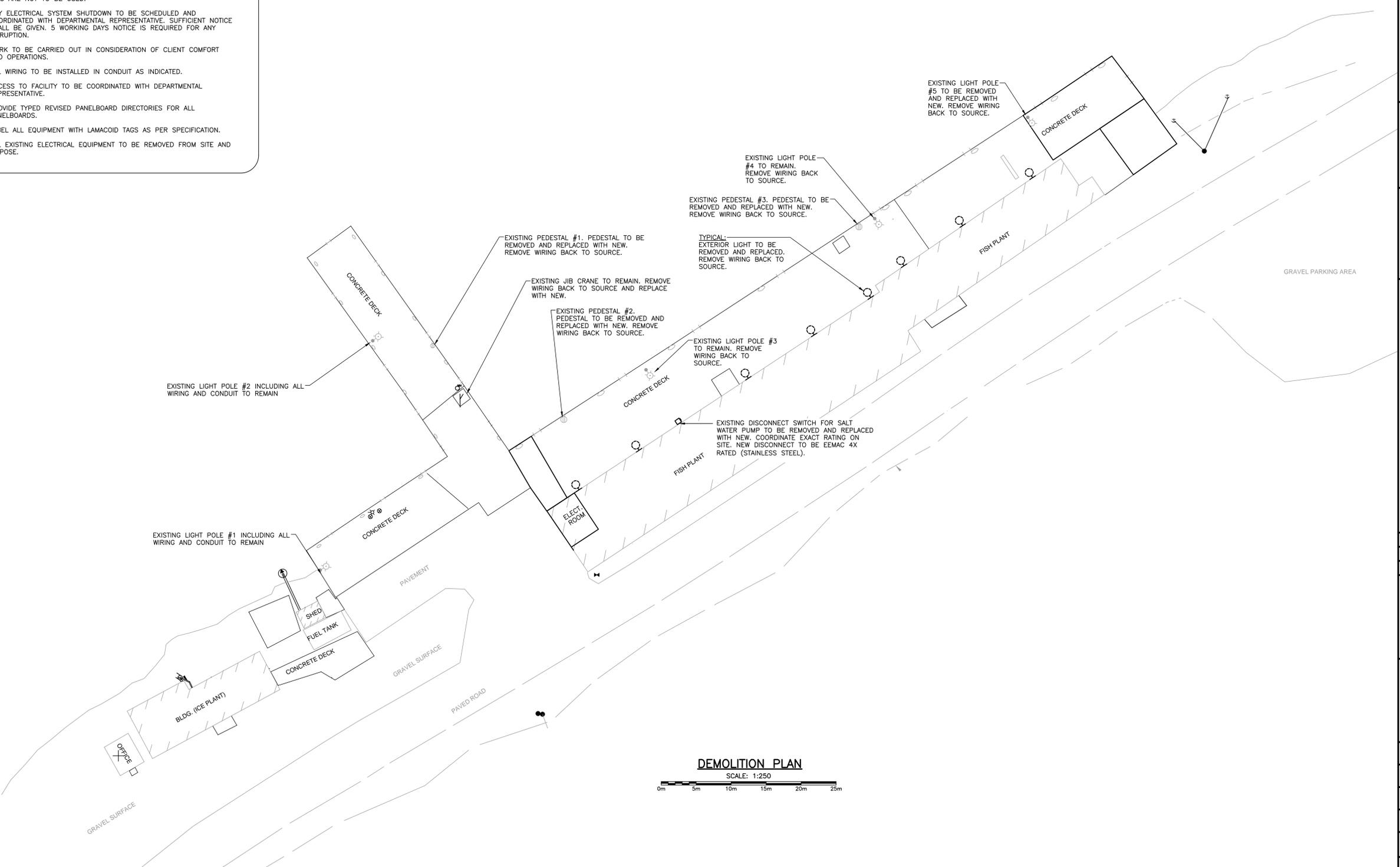


ELECTRICAL LEGEND

- ⊕ EXISTING ELECTRICAL PEDESTAL.
- ⌋ EXISTING JIB CRANE.
- ⊙ EXISTING LIGHT POLE

GENERAL NOTES:

1. CONTRACTOR MUST VERIFY ALL DIMENSIONS AND CONDITIONS ON SITE BEFORE PROCEEDING WITH ANY PORTION OF THIS WORK. DO NOT SCALE FROM DRAWINGS. CONTRACTOR TO ASSESS WORK AREA IN ADVANCE WITH DEPARTMENTAL REPRESENTATIVE FOR COORDINATION OF RELATED DAILY WORK SCHEDULES, PARKING, BUILDING ACCESS, AND STORAGE OF EQUIPMENT.
2. ALL WORK TO BE IN ACCORDANCE WITH THE LATEST REQUIREMENTS OF: THE NATIONAL BUILDING CODE OF CANADA, LATEST EDITION; CANADIAN ELECTRICAL CODE, CURRENT EDITION; ANY OTHER AUTHORITIES HAVING JURISDICTION.
3. WORK SHALL BE SCHEDULED DURING NORMAL WORKING HOURS. CONTRACTOR MAY WORK AFTER NORMAL WORKING HOURS AS COORDINATED BY DEPARTMENTAL REPRESENTATIVE.
4. CONTRACTOR SHALL BE RESPONSIBLE FOR CLEAN UP AND DISPOSALS OF WORK AREA ON A DAILY BASIS. AFTER EACH WORKING SHIFT BUILDING TO BE CLEANED AND FREE OF DEBRIS. BUILDING GARBAGE BINS ARE NOT TO BE USED.
5. ANY ELECTRICAL SYSTEM SHUTDOWN TO BE SCHEDULED AND COORDINATED WITH DEPARTMENTAL REPRESENTATIVE. SUFFICIENT NOTICE SHALL BE GIVEN. 5 WORKING DAYS NOTICE IS REQUIRED FOR ANY DISRUPTION.
6. WORK TO BE CARRIED OUT IN CONSIDERATION OF CLIENT COMFORT AND OPERATIONS.
7. ALL WIRING TO BE INSTALLED IN CONDUIT AS INDICATED.
8. ACCESS TO FACILITY TO BE COORDINATED WITH DEPARTMENTAL REPRESENTATIVE.
9. PROVIDE TYPED REVISED PANELBOARD DIRECTORIES FOR ALL PANELBOARDS.
10. LABEL ALL EQUIPMENT WITH LAMACOID TAGS AS PER SPECIFICATION.
11. ALL EXISTING ELECTRICAL EQUIPMENT TO BE REMOVED FROM SITE AND DISPOSE.



DEMOLITION PLAN
 SCALE: 1:250
 0m 5m 10m 15m 20m 25m

0	ISSUED FOR TENDER	07/06/21
A	ISSUED FOR REVIEW	06/18/21
revisions		date
project		project

WHARF REPAIRS
LEADING TICKLES, NL

drawing desin

DEMOLITION PLAN

designed K.N. concu

date JULY 2021

drawn R.J. desine

date JULY 2021

approved D.H. approve

JULY 2021

Tender Submission

DFO Project Manager

project number no. du projet

C2-00087

drawing no. no. du dessin

E1

SMALL CRAFT HARBOURS



NOTES:
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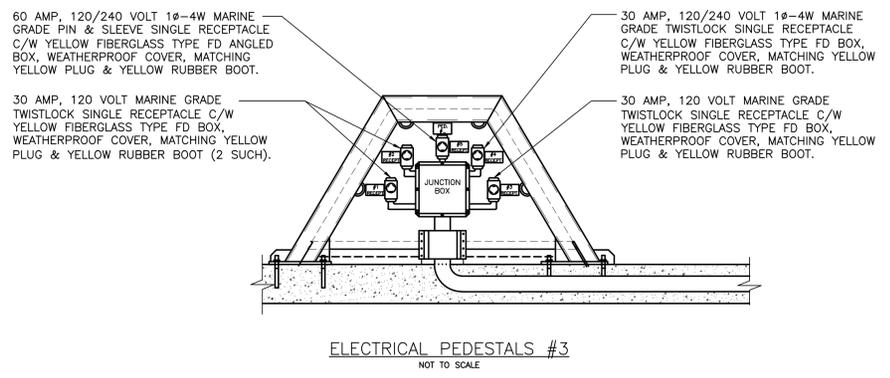
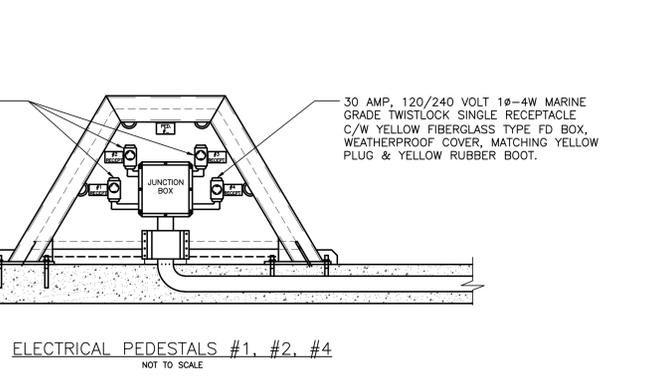
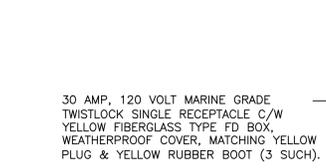
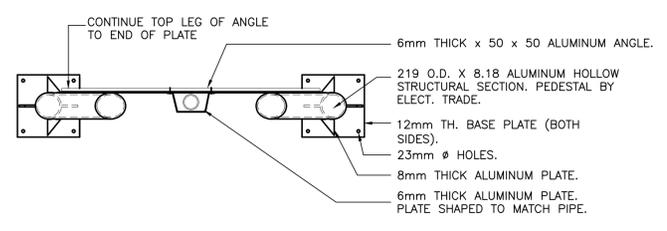
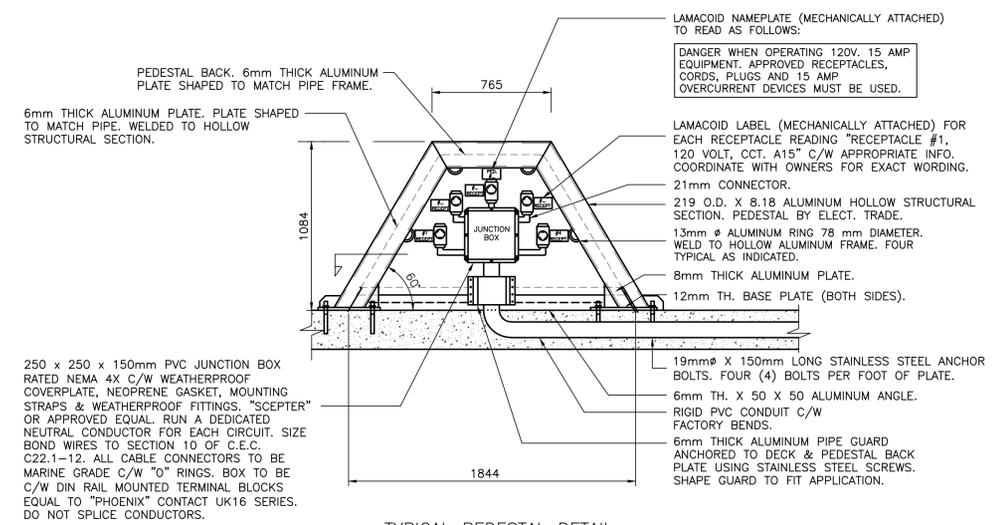
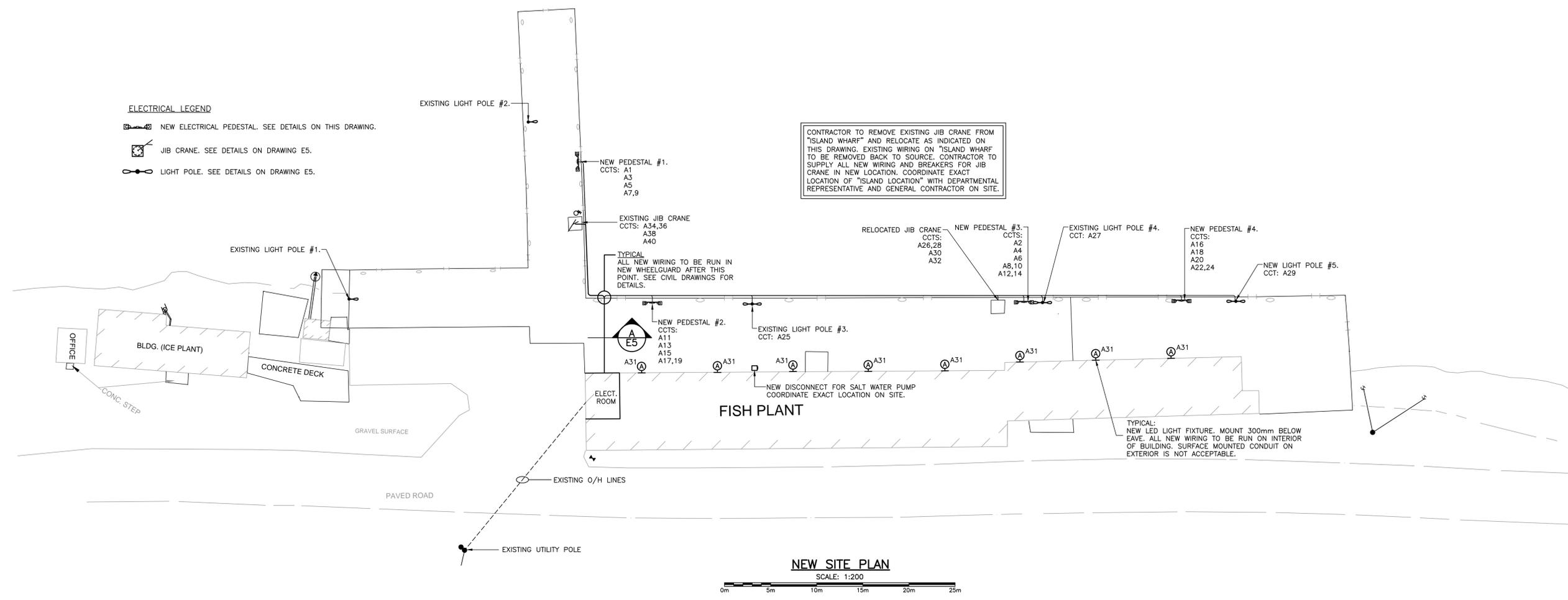
PROVINCE OF NEWFOUNDLAND
 PERMIT HOLDER
 Class "A"
 This Permit Allows
CROSSIE ENGINEERING LIMITED
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REGISTERED PROFESSIONAL ENGINEER
PEG
 KENNETH P. NEIL
 JULY 6, 2021
 NEWFOUNDLAND & LABRADOR

ELECTRICAL LEGEND

- NEW ELECTRICAL PEDESTAL. SEE DETAILS ON THIS DRAWING.
- JIB CRANE. SEE DETAILS ON DRAWING E5.
- LIGHT POLE. SEE DETAILS ON DRAWING E5.

CONTRACTOR TO REMOVE EXISTING JIB CRANE FROM "ISLAND WHARF" AND RELOCATE AS INDICATED ON THIS DRAWING. EXISTING WIRING ON "ISLAND WHARF" TO BE REMOVED BACK TO SOURCE. CONTRACTOR TO SUPPLY ALL NEW WIRING AND BREAKERS FOR JIB CRANE IN NEW LOCATION. COORDINATE EXACT LOCATION OF "ISLAND WHARF" WITH DEPARTMENTAL REPRESENTATIVE AND GENERAL CONTRACTOR ON SITE.



Q	ISSUED FOR TENDER	07/06/21
A	ISSUED FOR REVIEW	06/18/21
revisions		date
project		project

WHARF REPAIRS
LEADING TICKLES, NL
NEW SITE PLAN & PEDESTAL DETAILS

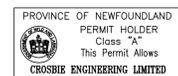
designed K.N.	concu
date JULY 2021	
drawn R.J.	desine
date JULY 2021	
approved D.H.	approve
date JULY 2021	
Tender	Submission
DFO Project Manager	no. du projet
C2-00087	
drawing no.	no. du dessin
E2	

SMALL CRAFT HARBOURS



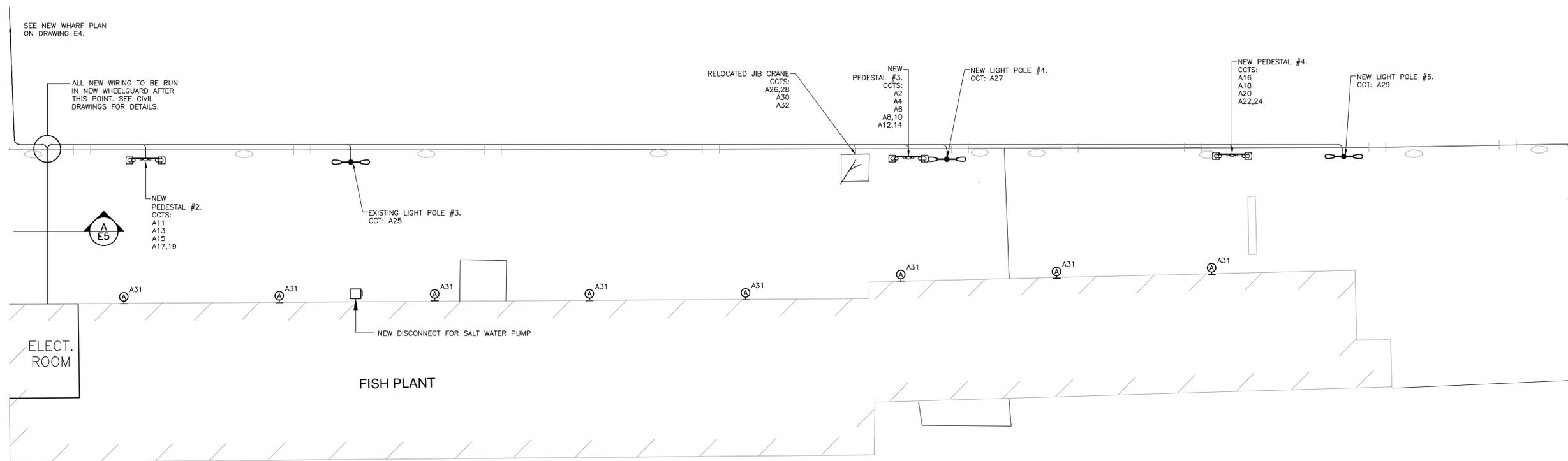
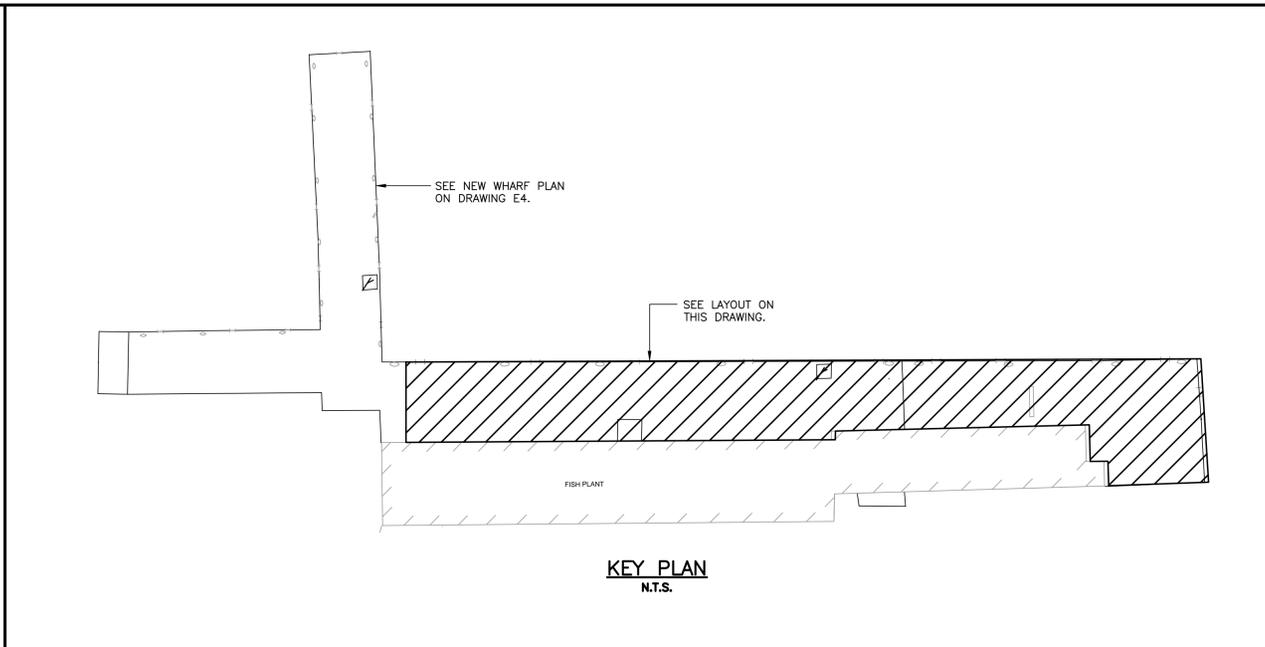
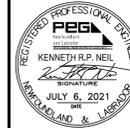
NOTES:

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STAMP



NEW WHARF PLAN

SCALE : 1:100



0	ISSUED FOR TENDER	07/06/21
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A	ISSUED FOR REVIEW	06/18/21
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revisions		date
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project		project
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WHARF REPAIRS
LEADING TICKLES, NL

drawing dessin

NEW WHARF PLAN

designed K.N. concu

date JULY 2021

drawn R.J. dessine

date JULY 2021

approved D.H. approuve

JULY 2021

Tender Soumission

DFO Project Manager

project number no. du projet

C2-00087

drawing no. no. du dessin

E3

SMALL CRAFT HARBOURS



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PROVINCE OF NEWFOUNDLAND
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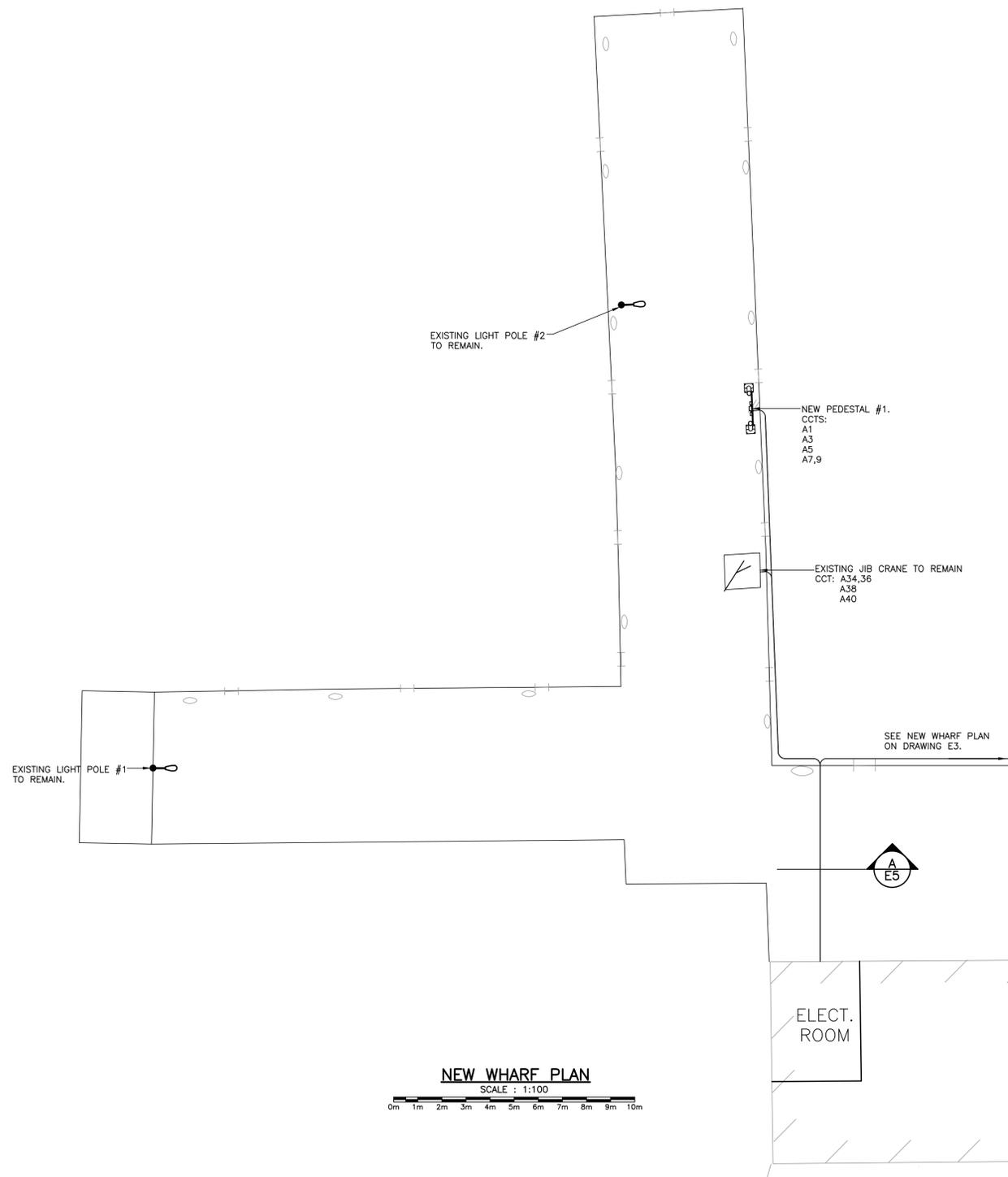
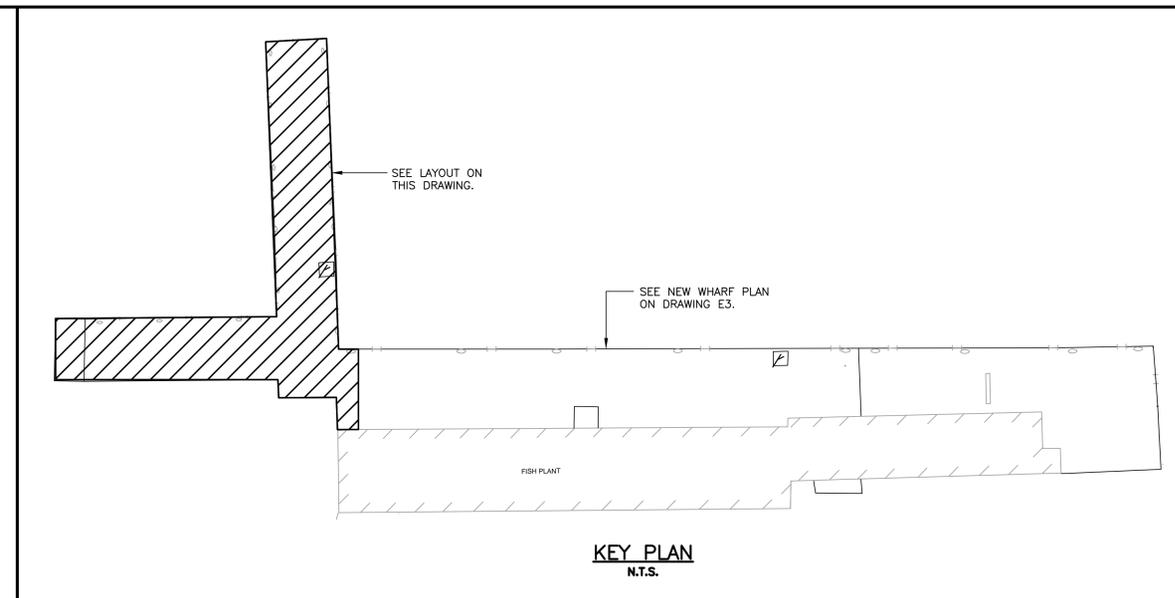
0	ISSUED FOR TENDER	07/06/21
A	ISSUED FOR REVIEW	06/18/21
revisions		date

project: WHARF REPAIRS
 projet: LEADING TICKLES, NL

drawing: NEW WHARF PLAN

designed K.N. concu
 date JULY 2021
 drawn R.J. dessine
 date JULY 2021
 approved D.H. approuvé
 date JULY 2021

Tender: Submission
 DFO Project Manager
 project number: C2-00087
 drawing no.: E4



NEW WHARF PLAN
 SCALE : 1:100
 0m 1m 2m 3m 4m 5m 6m 7m 8m 9m 10m

LIGHT FIXTURES AND MOUNTING HARDWARE TO BE SUPPLIED BY OWNER AND INSTALLED BY ELECTRICAL CONTRACTOR. ELECTRICAL CONTRACTOR SHALL SUPPLY AND INSTALL ALL REQUIRED MOUNTING HARDWARE, WIRING, CONDUIT, LEG BOLTS, ETC. AS REQUIRED.

LIQUID TIGHT FLEX TO FIXTURE.
100 X 100 X 100mm RIGID PVC JUNCTION BOX C/W WEATHERPROOF COVERPLATE, NEOPRENE GASKET & MOUNTING STRAPS. THREADED HUBS FOR CONDUITS. PROVIDE WEATHERPROOF FITTINGS.

PROVIDE 2-HOLE STRAPS
EXISTING JIB CRANE INSTALLED BY GENERAL CONTRACTOR.
2 #10 RW90 + 1 #12 TW GROUND IN 27mm RIGID PVC CONDUIT. PROVIDE STRAPS AS PER CODE REQUIREMENTS.

BROKEN LINE INDICATES EXISTING. SOLID LINE INDICATES NEW.

NOTES
1. PROVIDE NECESSARY BRACKETS AND APPROVED WELDING PROCEDURES TO SUPPORT LIGHT FIXTURES TO CRANE TOWER. PROVIDE CORROSION RESISTANT PAINT TO MATCH EXISTING AND SAFETY CHAIN FROM STRUCTURE TO LIGHT FIXTURE.

ENCLOSURE TO BE PROVIDED BY OWNER.

15A, 120V RECEPTACLE C/W WEATHERPROOF COVER AS PER CANADIAN ELECTRICAL CODE.

NOTE:
1. LIGHTS FOR JIB CRANE, JIB CRANE AND ASSOCIATED EQUIPMENT WILL BE SUPPLIED BY OWNER AND INSTALLED BY ELECTRICAL CONTRACTOR. REPLACE EXISTING EQUIPMENT AS REQUIRED. EQUIPMENT TO BE PICKED UP BY ELECTRICAL CONTRACTOR AT DFO'S WAREHOUSE IN DONOVAN'S INDUSTRIAL PARK, MOUNT PEARL, NL. CONTACT PROJECT MANAGER FOR DETAILS.

LIQUID TIGHT FLEX CONDUIT STRAP CONDUIT TO JIB CRANE.
RIGID GALVANIZED 90 DEGREE CONDUIT BEND AND CONDUIT.
RIGID GALVANIZED LB AROUND BASE OF JIB CRANE.
ALUMINUM PROTECTIVE PLATE

ENSURE CONDUIT IS BROUGHT UP ON THE SIDE OF THE JIB CRANE NEXT TO WHEEL GUARD TO PREVENT DAMAGE FROM EQUIPMENT. RIGID GALVANIZED 90 DEGREE CONDUIT BEND AND CONDUIT.

PVC TO GALVANIZED CONDUIT.

EXISTING JIB CRANE DETAIL

N.T.S.

EXISTING JIB CRANE INSTALLED BY GENERAL CONTRACTOR. CONTRACTOR TO REMOVE EXISTING JIB CRANE FROM "ISLAND WHARF" AND RELOCATE AS INDICATED ON DRAWING E2. EXISTING WIRING ON "ISLAND WHARF" TO BE REMOVED BACK TO SOURCE. CONTRACTOR TO SUPPLY ALL NEW WIRING AND BREAKERS FOR JIB CRANE IN NEW LOCATION. COORDINATE EXACT LOCATION OF "ISLAND WHARF" WITH DEPARTMENTAL REPRESENTATIVE AND GENERAL CONTRACTOR ON SITE.

BROKEN LINE INDICATES EXISTING. SOLID LINE INDICATES NEW.

ENCLOSURE TO BE PROVIDED BY OWNER.

15A, 120V RECEPTACLE C/W WEATHERPROOF COVER AS PER CANADIAN ELECTRICAL CODE.

NOTE:
1. EXISTING JIB CRANE RELOCATED FROM "ISLAND WHARF". SEE NOTE WITHIN THIS DETAIL FOR FURTHER INFORMATION. ASSOCIATED EQUIPMENT WILL BE SUPPLIED BY OWNER AND INSTALLED BY ELECTRICAL CONTRACTOR. REPLACE EXISTING EQUIPMENT AS REQUIRED. EQUIPMENT TO BE PICKED UP BY ELECTRICAL CONTRACTOR AT DFO'S WAREHOUSE IN DONOVAN'S INDUSTRIAL PARK, MOUNT PEARL, NL. CONTACT PROJECT MANAGER FOR DETAILS. COORDINATE ON SITE.

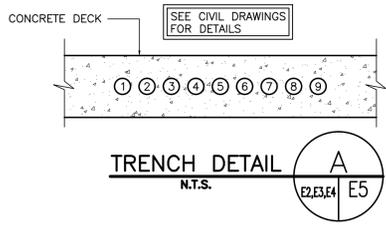
LIQUID TIGHT FLEX CONDUIT STRAP CONDUIT TO JIB CRANE.
RIGID GALVANIZED 90 DEGREE CONDUIT BEND AND CONDUIT.
RIGID GALVANIZED LB AROUND BASE OF JIB CRANE.
ALUMINUM PROTECTIVE PLATE

ENSURE CONDUIT IS BROUGHT UP ON THE SIDE OF THE JIB CRANE NEXT TO WHEEL GUARD TO PREVENT DAMAGE FROM EQUIPMENT. RIGID GALVANIZED 90 DEGREE CONDUIT BEND AND CONDUIT.

PVC TO GALVANIZED CONDUIT.

RELOCATED JIB CRANE DETAIL

N.T.S.



SYMBOL	UNDERGROUND WIRE AND CONDUIT SIZE
①	6 #12 RW90 (CONTROLS) + 4 #10 RW90 (JIB CRANE RECEPTACLE + LIGHT) + 2 #12 TW GROUND + 3 #8 RW90 (JIB CRANE) + 1 #10 TW GROUND IN 53mm RIGID PVC CONDUIT (EXISTING JIB CRANE)
②	3 #8 RW90 + 6 #6 RW90 + 1 #6 TW GROUND IN 53mm RIGID PVC CONDUIT (PEDESTAL #1)
③	2 #10 RW90 + 1 #12 TW GROUND IN 27mm RIGID PVC CONDUIT (NEW LIGHT POLE #5)
④	3 #6 RW90 + 6 #4 RW90 + 1 #4 TW GROUND 53mm RIGID PVC CONDUIT (PEDESTAL #4)
⑤	2 #10 RW90 + 1 #12 TW GROUND IN 27mm RIGID PVC CONDUIT (EXISTING LIGHT POLE #4)
⑥	3 #6 RW90 + 6 #4 RW90 + 3 #3 RW90 + 1 #3 TW GROUND 53mm RIGID PVC CONDUIT (PEDESTAL #3)
⑦	6 #12 RW90 (CONTROLS) + 2 #10 RW90 (JIB CRANE LIGHT) + 1 #12 TW GROUND + 2 #8 RW90 (JIB CRANE RECEPT) + 1 #10 TW GROUND + 3 #8 RW90 (JIB CRANE) + 1 #10 TW GROUND IN 53mm RIGID PVC CONDUIT (RELOCATED JIB CRANE)
⑧	2 #10 RW90 + 1 #12 TW GROUND IN 27mm RIGID PVC CONDUIT (EXISTING LIGHT POLE #3)
⑨	9 #8 RW90 + 1 #8 TW GROUND IN 53mm RIGID PVC CONDUIT (PEDESTAL #2)

LIGHT FIXTURES, PHOTOCELL, UPSWING ARM AND LAMP TO BE SUPPLIED BY OWNER AND INSTALLED BY ELECTRICAL CONTRACTOR. OWNER SUPPLIED MATERIALS TO BE PICKED UP BY THE CONTRACTOR AT DFO'S WAREHOUSE IN MOUNT PEARL, NL. ELECTRICAL CONTRACTOR SHALL SUPPLY AND INSTALL ALL OTHER REQUIRED JUNCTION BOXES, CONDUIT, COVERPLATES, ETC FOR A COMPLETE INSTALLATION. FIXTURES SHALL BE MOUNTED 8.8 METERS ABOVE FINISHED DECK.

BROKEN LINE INDICATES EXISTING. SOLID LINE INDICATES NEW.

MIN. 6mm THICK ALUMINUM COVERPLATE FOR MECHANICAL PROTECTION. SHAPE COVER TO SUIT. USE STAINLESS STEEL SCREWS TO FASTEN TO WOODEN POLE.

RIGID PVC CONDUIT C/W WIRING IN WHEELGUARD. SEE CIVIL FOR INSTALLATION DETAILS.

EXISTING LIGHT POLE DETAIL

N.T.S.

LIGHT FIXTURES, PHOTOCELL, UPSWING ARM AND LAMP TO BE SUPPLIED BY OWNER AND INSTALLED BY ELECTRICAL CONTRACTOR. OWNER SUPPLIED MATERIALS TO BE PICKED UP BY THE CONTRACTOR AT DFO'S WAREHOUSE IN MOUNT PEARL, NL. ELECTRICAL CONTRACTOR SHALL SUPPLY AND INSTALL ALL OTHER REQUIRED JUNCTION BOXES, CONDUIT, COVERPLATES, ETC FOR A COMPLETE INSTALLATION. FIXTURES SHALL BE MOUNTED 8.8 METERS ABOVE FINISHED DECK.

COORDINATE THE INSTALLATION OF ALL WOODEN POLES WITH GENERAL CONTRACTOR AND IN ACCORDANCE WITH CIVIL SPECIFICATION.

CONTRACTOR TO ORIENTATE LIGHTING FIXTURES FOR OPTIMUM PERFORMANCE.

MIN. 6mm THICK ALUMINUM COVERPLATE FOR MECHANICAL PROTECTION. SHAPE COVER TO SUIT. USE STAINLESS STEEL SCREWS TO FASTEN TO WOODEN POLE.

HORIZONTAL FENDERS

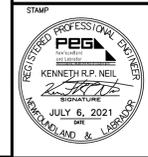
NEW LIGHT POLE DETAIL

N.T.S.

SMALL CRAFT HARBOURS



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



0	ISSUED FOR TENDER	07/06/21
A	ISSUED FOR REVIEW	06/18/21
revisions		date
project		project

**WHARF REPAIRS
LEADING TICKLES, NL**

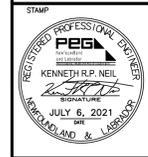
ELECTRICAL DETAILS

designed K.N.	concu
date JULY 2021	
drawn R.J.	desine
date JULY 2021	
approved D.H.	approve
date JULY 2021	
Tender	Submission
DFO Project Manager	
project number	no. du projet
C2-00087	
drawing no.	no. du dessin
E5	

SMALL CRAFT HARBOURS



NOTES:
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A	ISSUED FOR REVIEW	06/18/21
revisions		date
project		project

WHARF REPAIRS
LEADING TICKLES, NL

ELECTRICAL DETAILS

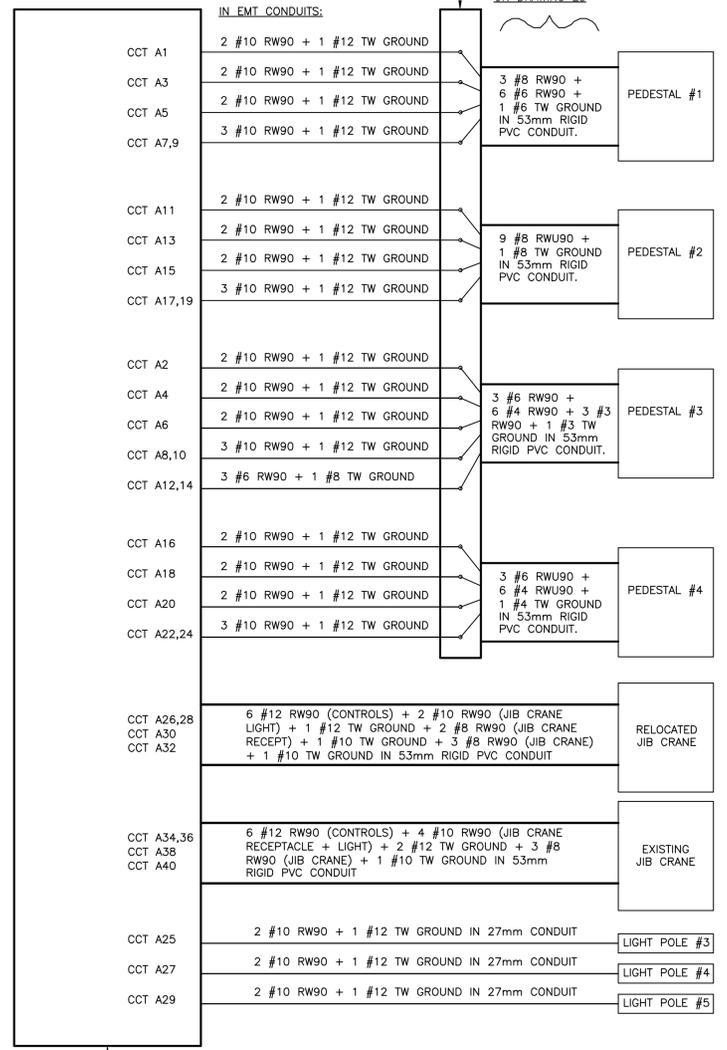
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Tender	Submission
DFO Project Manager	
project number	no. du projet

C2-00087

drawing no. E6 no. du dessin

TERMINATING BOX WITHIN ELECTRICAL ENCLOSURE. BOX TO BE C/W DIN RAIL MOUNTED TERMINAL BLOCKS EQUAL TO "PHOENIX" CONTACT UK16 SERIES. DO NOT SPLICE CONDUCTORS.

UNDERGROUND - SEE TRENCH DETAILS ON DRAWING E5



TERMINATING BOX DETAIL
N.T.S.

NEW PANEL

VOLTS	120/240	PANEL NAME	"A"	MAINS RATED	400 AMP
PHASE	1	LOCATION	ELECTRICAL ENCLOSURE	MOUNTING SURFACE	
WIRE	3	FED FROM	MAIN DISCONNECT SWITCH & CT CABINET	CIRCUITS	84

DESIGNATION	WATTAGE		U/G WIRE	WIRE BKR	CCT	A	B	CCT	BKR	WIRE	U/G WIRE	WATTAGE		DESIGNATION	
	Ø A	Ø B										Ø A	Ø B		
GF30 PEDESTAL #1 - RECEPT #1	2880	6	10	30	1			2	30	10	4	2880	PEDESTAL #3 - RECEPT #1	GF30	
GF30 PEDESTAL #1 - RECEPT #2	2880	6	10	30	3			4	30	10	4	2880	PEDESTAL #3 - RECEPT #2	GF30	
GF30 PEDESTAL #1 - RECEPT #3	2880	6	10	30	5			6	30	10	4	2880	PEDESTAL #3 - RECEPT #3	GF30	
GF30 PEDESTAL #1 - RECEPT #4	2880	8	10	30	7			8	30	10	6	2880	PEDESTAL #3 - RECEPT #4	GF30	
GF30 PEDESTAL #2 - RECEPT #1	2880	8	10	30	11			12	60	2	6	5760	PEDESTAL #3 - RECEPT #5	ST	
GF30 PEDESTAL #2 - RECEPT #2	2880	8	10	30	13			14	2	6	3	5760	PEDESTAL #4 - RECEPT #1	GF30	
GF30 PEDESTAL #2 - RECEPT #3	2880	8	10	30	15			16	30	10	4	2880	PEDESTAL #4 - RECEPT #2	GF30	
GF30 PEDESTAL #2 - RECEPT #4	2880	8	10	30	17			18	30	10	4	2880	PEDESTAL #4 - RECEPT #3	GF30	
GF30 PEDESTAL #2 - RECEPT #4	2880	8	10	30	19			20	30	10	4	2880	PEDESTAL #4 - RECEPT #4	GF30	
E,GF30 EXISTING LIGHT POLE #1	300	E	E	15	21			22	30	2	10	6	2880	PEDESTAL #4 - RECEPT #4	GF30
E,GF30 EXISTING LIGHT POLE #2	300	E	E	15	23			24	2	8	8	1400	2880		
GF30 LIGHT POLE #3	300	10	10	15	25			26	30	2	8	1400	RELOCATED JIB CRANE	GF30	
GF30 LIGHT POLE #4	300	10	10	15	27			28	2	8	8	1400	RELOCATED JIB CRANE RECEPTACLE	GF	
GF30 LIGHT POLE #5	300	10	10	15	29			30	15	8	8	120	RELOCATED JIB CRANE LIGHT	GF30	
E EXISTING CIRCUIT		E	E	15	31			32	15	10	10	300	EXISTING JIB CRANE	GF30	
E EXISTING CIRCUIT		E	E	15	33			34	30	2	8	1400	EXISTING JIB CRANE RECEPTACLE	GF	
E EXISTING CIRCUIT		E	E	15	35			36	2	8	8	1400	EXISTING JIB CRANE LIGHT	GF30	
E EXISTING CIRCUIT		E	E	15	37			38	15	10	10	120	EXISTING CIRCUIT	GF	
E EXISTING CIRCUIT		E	E	15	39			40	15	10	10	300	EXISTING CIRCUIT	GF30	
E EXISTING CIRCUIT		E	E	15	41			42	E	E			EXISTING CIRCUIT	E	
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E EXISTING CIRCUIT		E	E	15	79			80	E	E			EXISTING CIRCUIT	E	
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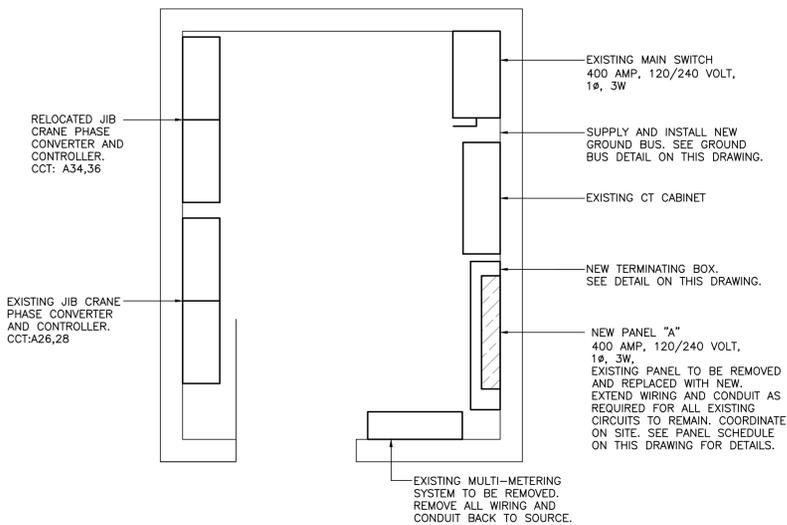
SERVICE DEMAND 47.12 KW 197 AMP

GF - INDICATES CLASS A GFCI CIRCUIT BREAKER
 GF30 - INDICATES GFCI CIRCUIT BREAKER WITH GROUND FAULT SETTING AT 30mA.
 ST - INDICATES C/W SHUNT TRIP BREAKER, AND CONNECTED TO A NEW 30 mA GROUND FAULT PROTECTION RELAY (EATON D64RPB100 OR APPROVED EQUAL, C/W ENCLOSURE), SUPPLY AND INSTALL C/W MOUNTING HARDWARE. COORDINATE ON SITE.
 E - INDICATES EXISTING CIRCUIT TO REMAIN. COORDINATE EXACT EXISTING CIRCUIT BREAKER RATING AND WIRE SIZE FOR EACH CIRCUIT ON SITE. SUPPLY AND INSTALL NEW CIRCUIT BREAKER TO MATCH EXISTING. EXTEND WIRING AND CONDUIT AS REQUIRED TO NEW PANEL LOCATION. COORDINATE ON SITE.

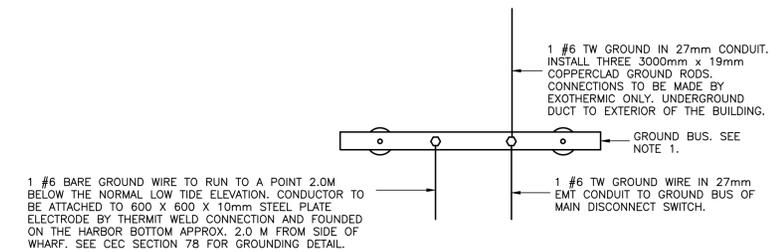
EXISTING MAIN ELECTRICAL SERVICE GROUND CONDUCTOR TO BE REMOVED AND REPLACED WITH NEW. COORDINATE ON SITE.

LIGHTING FIXTURE SCHEDULE

SYMBOL	LIGHT SOURCE	MOUNTING	LAMPS	VOLTS	MANUFACTURER	CAT. NO.	REMARKS
A	LED	EXTERIOR WALL	51W	120	LITHONIA	TWR1 LED ALO 40K MVOLT PE DDBTXD	C/W PHOTOCCELL



ELECTRICAL ROOM LAYOUT
N.T.S.



- NOTES:
- GROUND BUS TO BE 600mm x 50mm x 6mm COPPER. WALL MOUNT 450mm A.F.F. ON PORCELAIN STAND-OFF TYPE INSULATORS. MOUNT NEAR SERVICE ENTRANCE BOARD.
 - RESISTANCE TO GROUND SHALL NOT EXCEED 10 OHMS. TEST AND PROVIDE ENGINEER WITH RESULTS.
 - BOND ALL MECHANICAL EQUIPMENT SUCH AS DUCTWORK, PIPING, TANKS, ETC.

GROUND BUS DETAIL
N.T.S.