



Fisheries and Oceans
Canada

Pêches et Océans
Canada

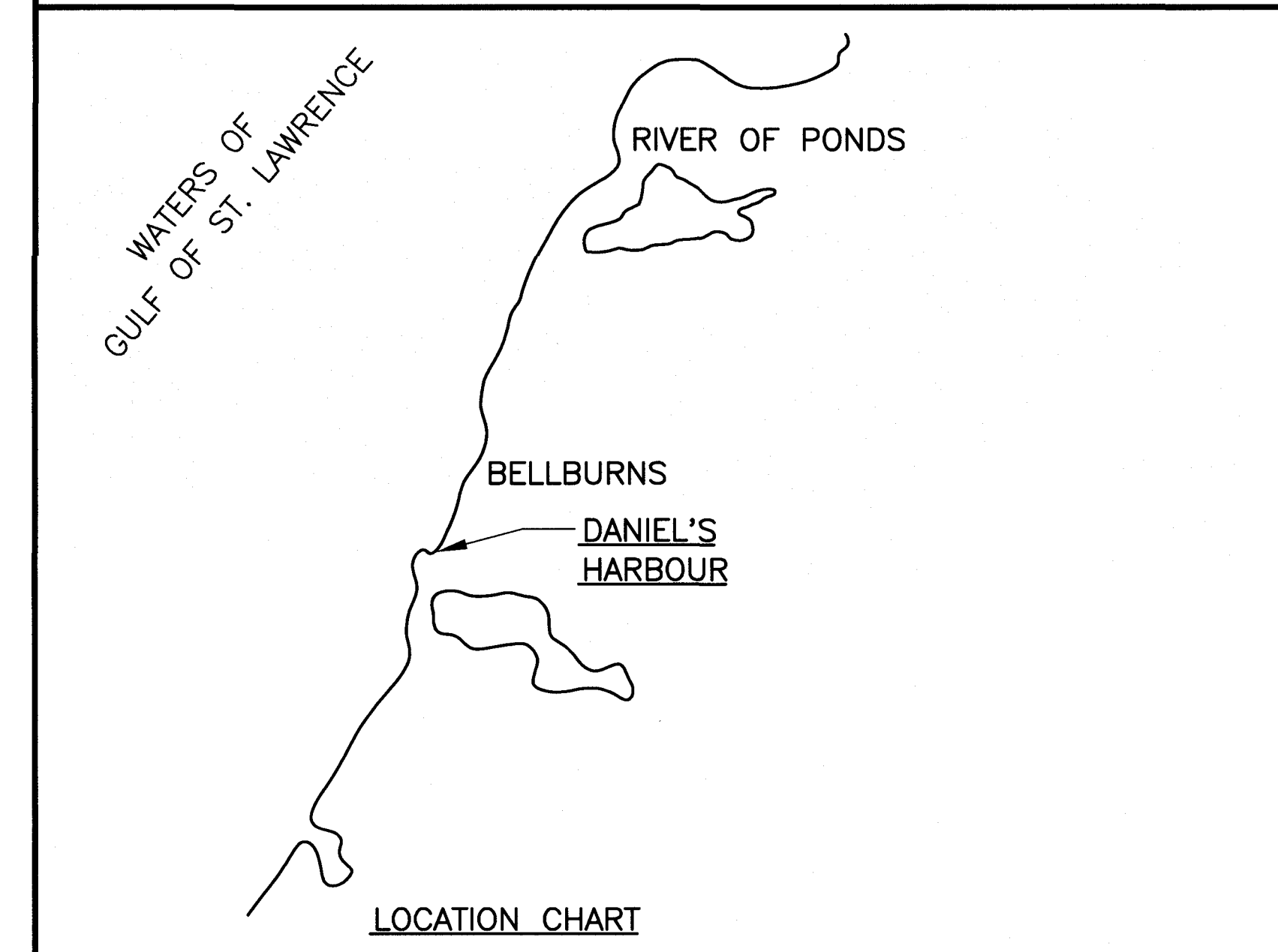
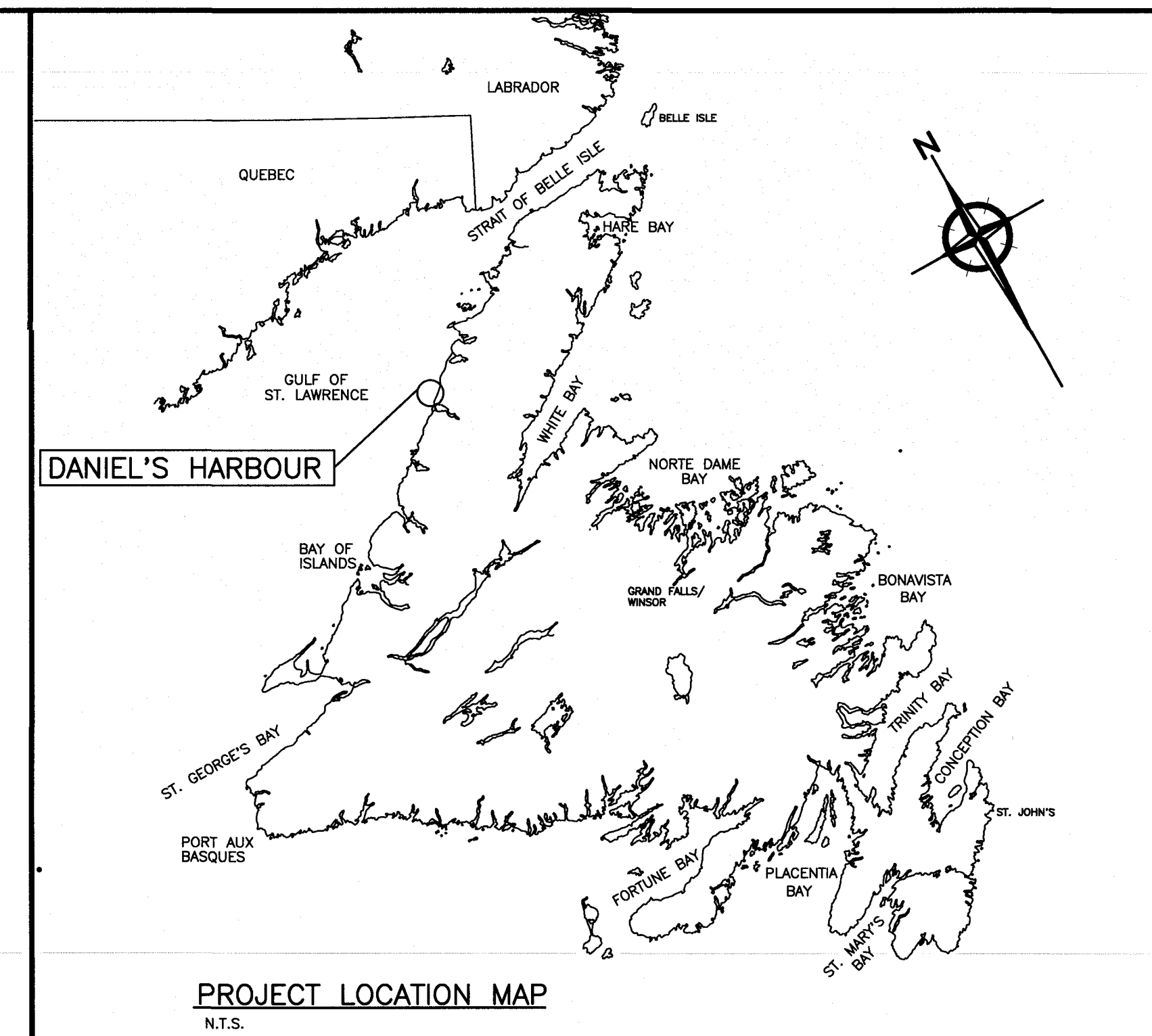


Small Craft Harbours Ports Pour Petits Bateaux
Newfoundland Region
St. John's, NL.

LAUNCHWAY, SLIPWAY AND WHARF REPAIRS DANIEL'S HARBOUR

LONG RANGE MOUNTAINS DISTRICT, NEWFOUNDLAND AND LABRADOR

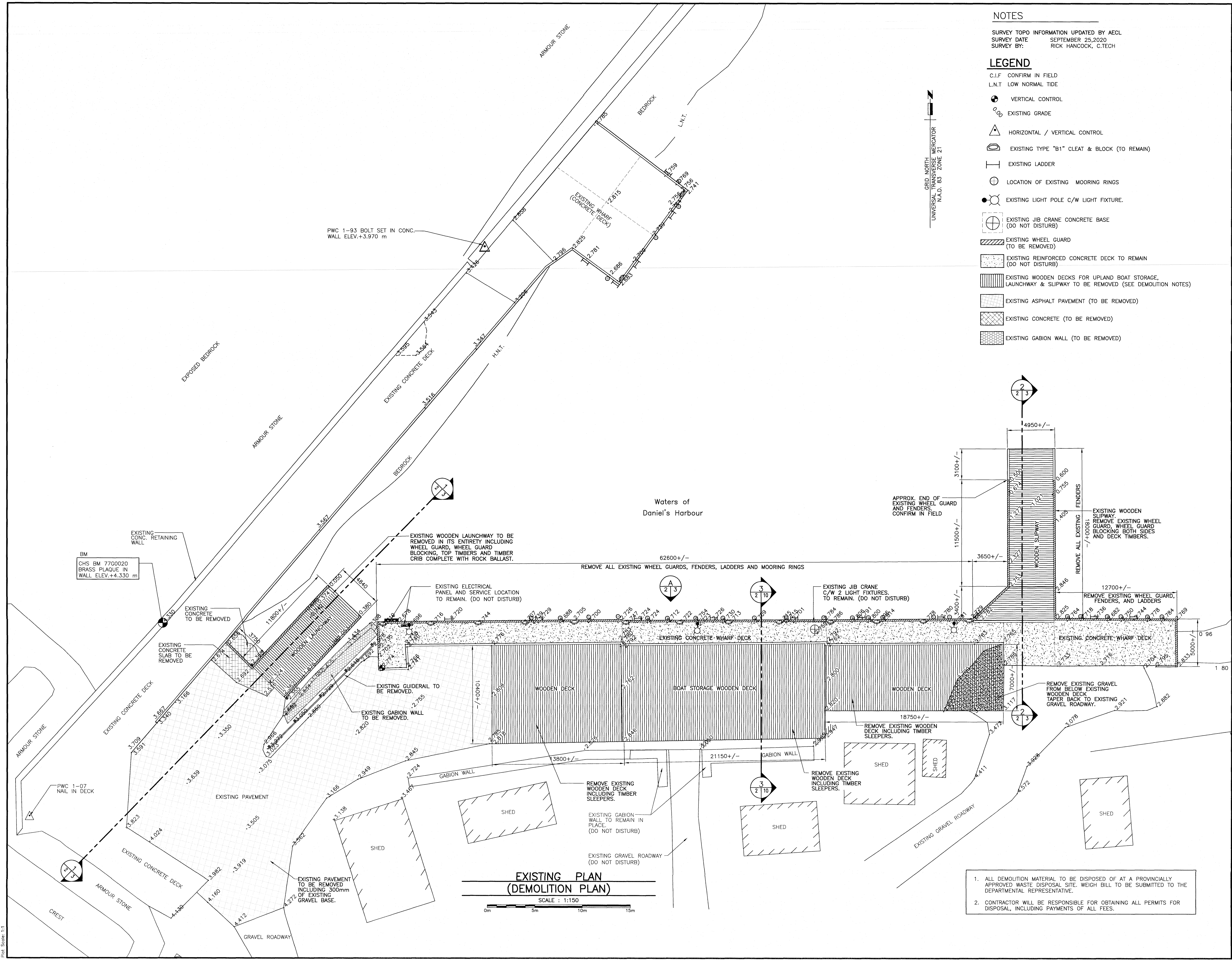
PROJECT NO. 723438



DRAWING LIST

DRAWING NO.	TITLE
1 OF 11	EXISTING SITE PLAN & TOPOGRAPHIC SURVEY
2 OF 11	EXISTING PLAN (DEMOLITION PLAN)
3 OF 11	EXISTING WHARF ELEVATION, EXISTING LAUNCHWAY SECTION AND EXISTING SLIPWAY SECTION (DEMOLITION)
4 OF 11	NEW PLAN
5 OF 11	NEW WHARF ELEVATIONS AND NEW LAUNCHWAY SECTION
6 OF 11	EXISTING SLIPWAY SECTIONS, NEW SLIPWAY BEAM PLAN, NEW SECTIONS AND DETAILS.
7 OF 11	LAUNCHWAY PLAN AND LAUNCHWAY SECTION
8 OF 11	NEW LAUNCHWAY CROSS SECTIONS AND PRECAST PANEL PLAN, SECTION AND DETAILS
9 OF 11	NEW LAUNCHWAY CROSS SECTIONS
10 OF 11	EXISTING BOAT STORAGE PARTIAL PLAN, NEW BOAT STORAGE PLAN, SECTIONS AND DETAILS
11 OF 11	MISC. SECTIONS AND DETAILS

Canada



- NOTES**
- SURVEY TOPO INFORMATION UPDATED BY AECL
 SURVEY DATE SEPTEMBER 25, 2020
 SURVEY BY: RICK HANCOCK, C.TECH
- LEGEND**
- C.I.F CONFIRM IN FIELD
 - L.N.T LOW NORMAL TIDE
 - VERTICAL CONTROL
 - EXISTING GRADE
 - HORIZONTAL / VERTICAL CONTROL
 - EXISTING TYPE "B1" CLEAT & BLOCK (TO REMAIN)
 - EXISTING LADDER
 - LOCATION OF EXISTING MOORING RINGS
 - EXISTING LIGHT POLE C/W LIGHT FIXTURE.
 - EXISTING JIB CRANE CONCRETE BASE (DO NOT DISTURB)
 - EXISTING WHEEL GUARD (TO BE REMOVED)
 - EXISTING REINFORCED CONCRETE DECK TO REMAIN (DO NOT DISTURB)
 - EXISTING WOODEN DECKS FOR UPLAND BOAT STORAGE, LAUNCHWAY & SLIPWAY TO BE REMOVED (SEE DEMOLITION NOTES)
 - EXISTING ASPHALT PAVEMENT (TO BE REMOVED)
 - EXISTING CONCRETE (TO BE REMOVED)
 - EXISTING GABION WALL (TO BE REMOVED)

Fisheries and Oceans Canada / Pêches et Océans Canada

SMALL CRAFT HARBOURS

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**EXISTING PLAN
 (DEMOLITION PLAN)**

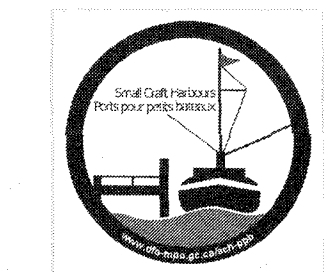
SCALE : 1:150

1. ALL DEMOLITION MATERIAL TO BE DISPOSED OF AT A PROVINCIALLY APPROVED WASTE DISPOSAL SITE. WEIGH BILL TO BE SUBMITTED TO THE DEPARTMENTAL REPRESENTATIVE.
2. CONTRACTOR WILL BE RESPONSIBLE FOR OBTAINING ALL PERMITS FOR DISPOSAL, INCLUDING PAYMENTS OF ALL FEES.

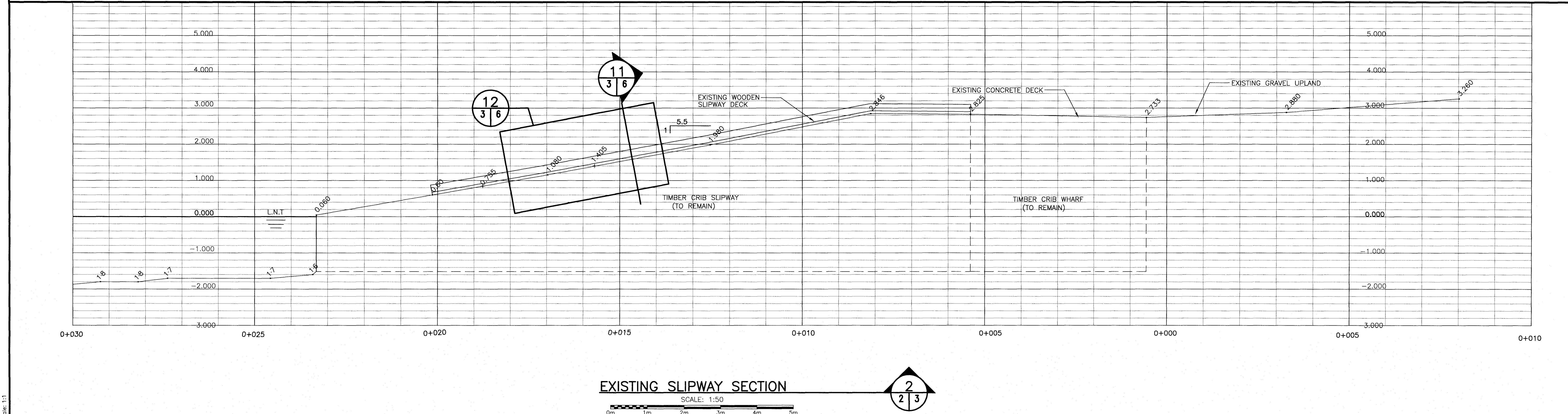
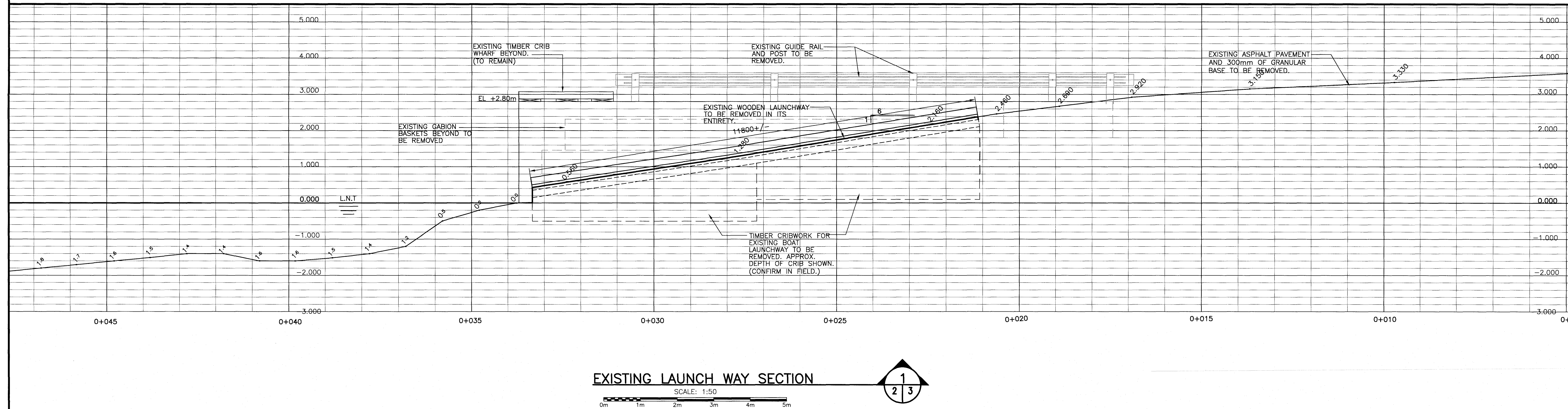
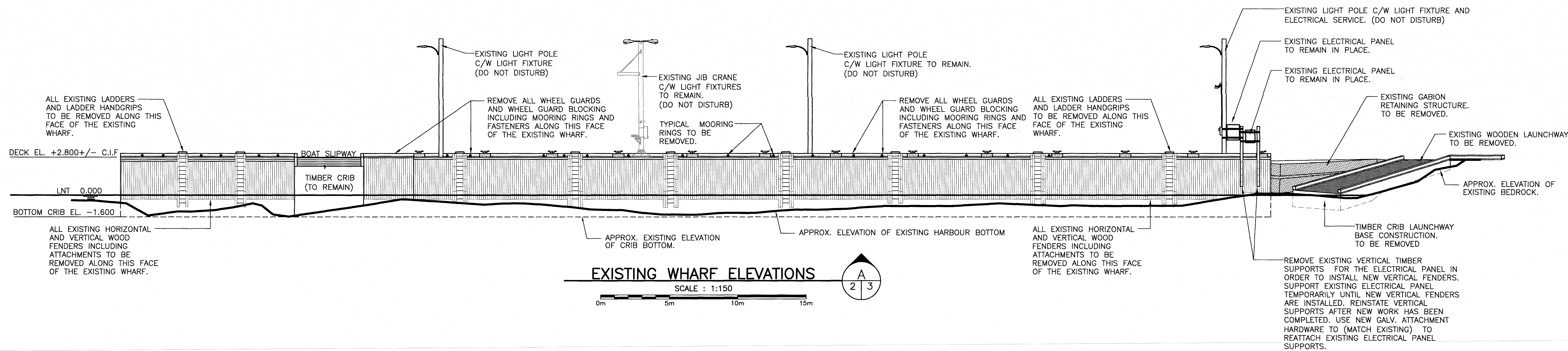
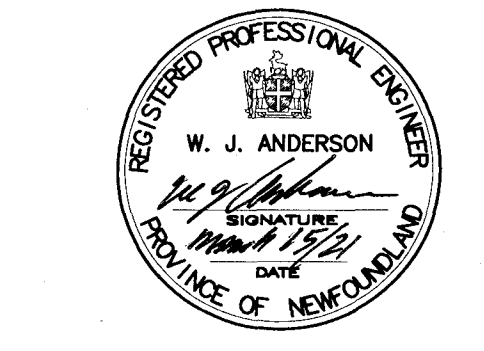
01	ISSUED FOR TENDER	16/03/21
revisions		date
project	LAUNCHWAY SLIPWAY AND WHARF REPAIRS DANIEL'S HARBOUR, NL	
drawing	design	
designed	W.J.ANDERSON concu	
date	MARCH, 2021	
drawn	R.S.H	
date	MARCH, 2021	
approved	approve	
date	approve	
Tender	Submission	
DFD Project Manager	no. du projet	
	723438	
drawing no.	no. du dessin	
	2 OF 11	

Plot Scale: 1:1

SMALL CRAFT HARBOURS



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01	ISSUED FOR TENDER	16/03/21
revisions		date

project
LAUNCHWAY SLIPWAY AND WHARF REPAIRS DANIEL'S HARBOUR, NL
 project

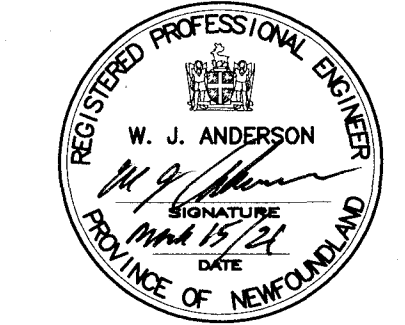
drawing
EXISTING WHARF ELEVATION, EXISTING LAUNCHWAY SECTION AND EXISTING SLIPWAY SECTION (DEMOLITION)
 dessin

designed W.J.ANDERSON concs
 date MARCH, 2021
 drawn R.S.H. dessin
 date MARCH, 2021
 approved
 date
 Tender Paul Curran Submission
 DFO Project no. 80092
 project number 723438 no. du projet
 drawing no. 3 OF 11 no. du dessin

SMALL CRAFT HARBOURS



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LEGEND

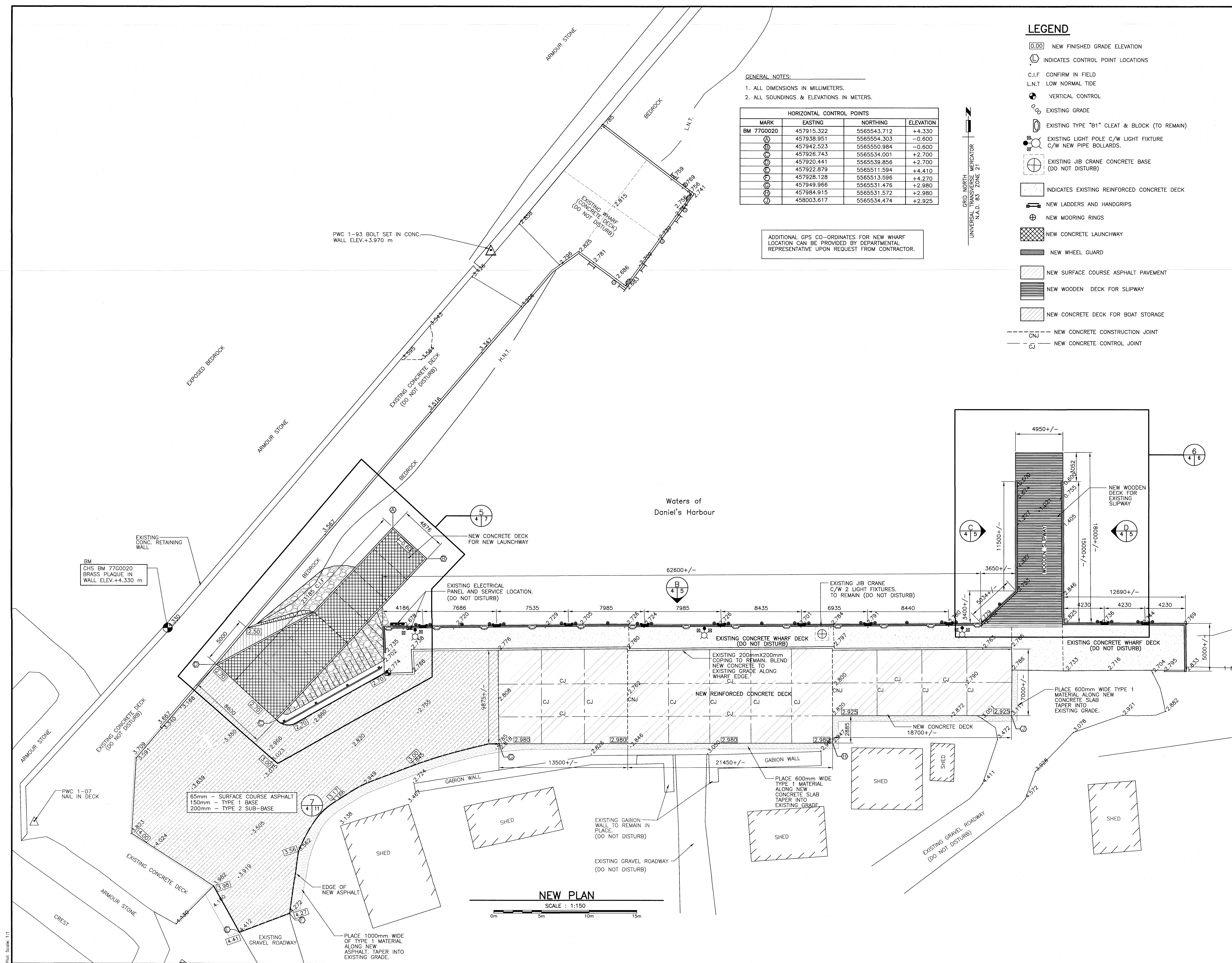
- 0.00 NEW FINISHED GRADE ELEVATION
- ⊕ INDICATES CONTROL POINT LOCATIONS
- C.I.F CONFIRM IN FIELD
- L.N.T LOW NORMAL TIDE
- ⊙ VERTICAL CONTROL
- 0.00 EXISTING GRADE
- ⊕ EXISTING TYPE "B1" CLEAT & BLOCK (TO REMAIN)
- ⊕ EXISTING LIGHT POLE C/W LIGHT FIXTURE
C/W NEW PIPE BOLLARDS.
- ⊕ EXISTING JIB CRANE CONCRETE BASE
(DO NOT DISTURB)
- ▭ INDICATES EXISTING REINFORCED CONCRETE DECK
- ⊕ NEW LADDERS AND HANDGRIPS
- ⊕ NEW MOORING RINGS
- ▨ NEW CONCRETE LAUNCHWAY
- ▨ NEW WHEEL GUARD
- ▨ NEW SURFACE COURSE ASPHALT PAVEMENT
- ▨ NEW WOODEN DECK FOR SLIPWAY
- ▨ NEW CONCRETE DECK FOR BOAT STORAGE
- CNJ --- NEW CONCRETE CONSTRUCTION JOINT
- - - CJ - - - NEW CONCRETE CONTROL JOINT

GENERAL NOTES:
 1. ALL DIMENSIONS IN MILLIMETERS.
 2. ALL SOUNDINGS & ELEVATIONS IN METERS.

HORIZONTAL CONTROL POINTS			
MARK	EASTING	NORTHING	ELEVATION
BM 7700020	457915.322	558543.712	+4.330
⊕	457938.951	558554.303	-0.600
⊕	457942.523	558550.984	-0.600
⊕	457926.743	558534.001	+2.700
⊕	457920.441	558539.856	+2.700
⊕	457922.879	558511.594	+4.410
⊕	457928.128	558513.596	+4.270
⊕	457949.966	558531.476	+2.980
⊕	457984.915	558531.572	+2.980
⊕	458003.617	558534.474	+2.925

ADDITIONAL GPS CO-ORDINATES FOR NEW WHARF LOCATION CAN BE PROVIDED BY DEPARTMENTAL REPRESENTATIVE UPON REQUEST FROM CONTRACTOR.

GRID NORTH
 UNIVERSAL TRANSVERSE MERCATOR
 N.A.D. 83 ZONE 21



NEW PLAN

SCALE : 1:150

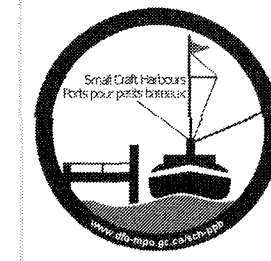


01	ISSUED FOR TENDER	16/03/21
revisions		date

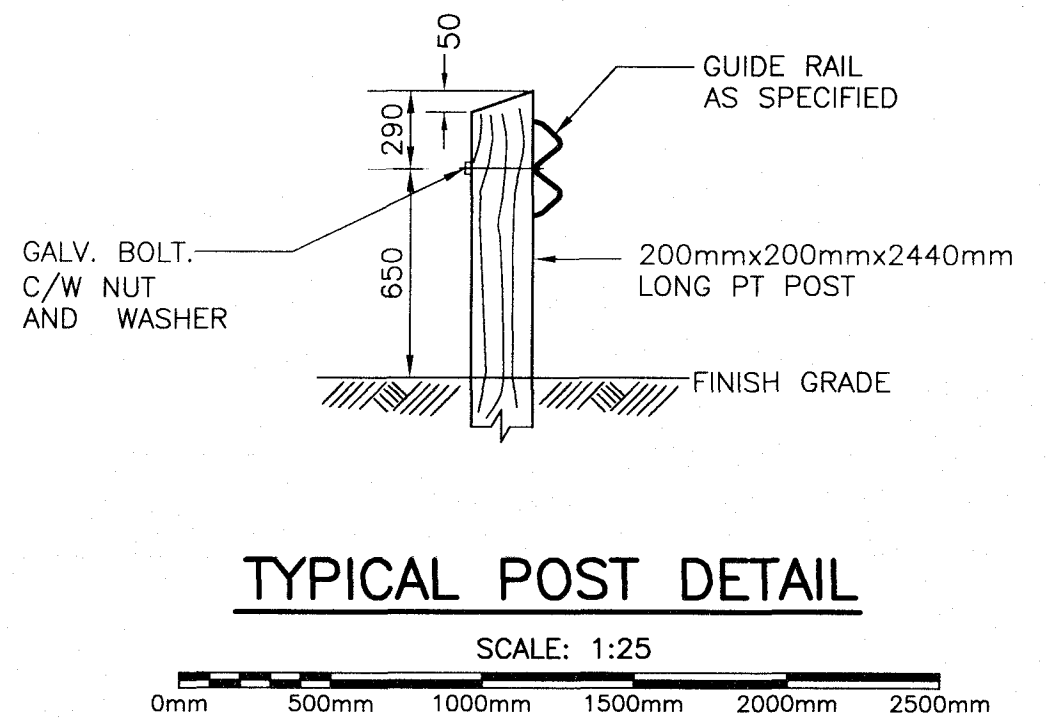
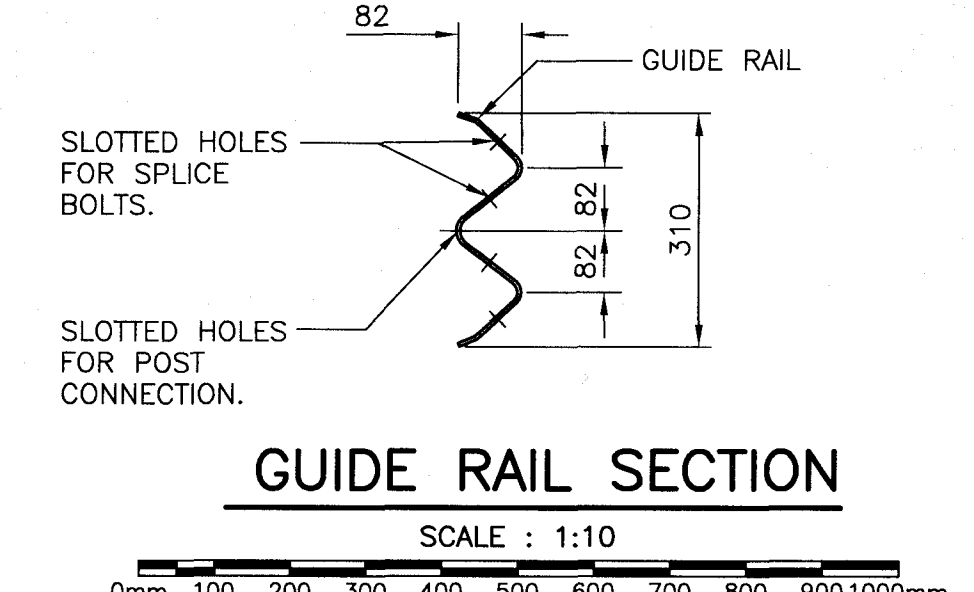
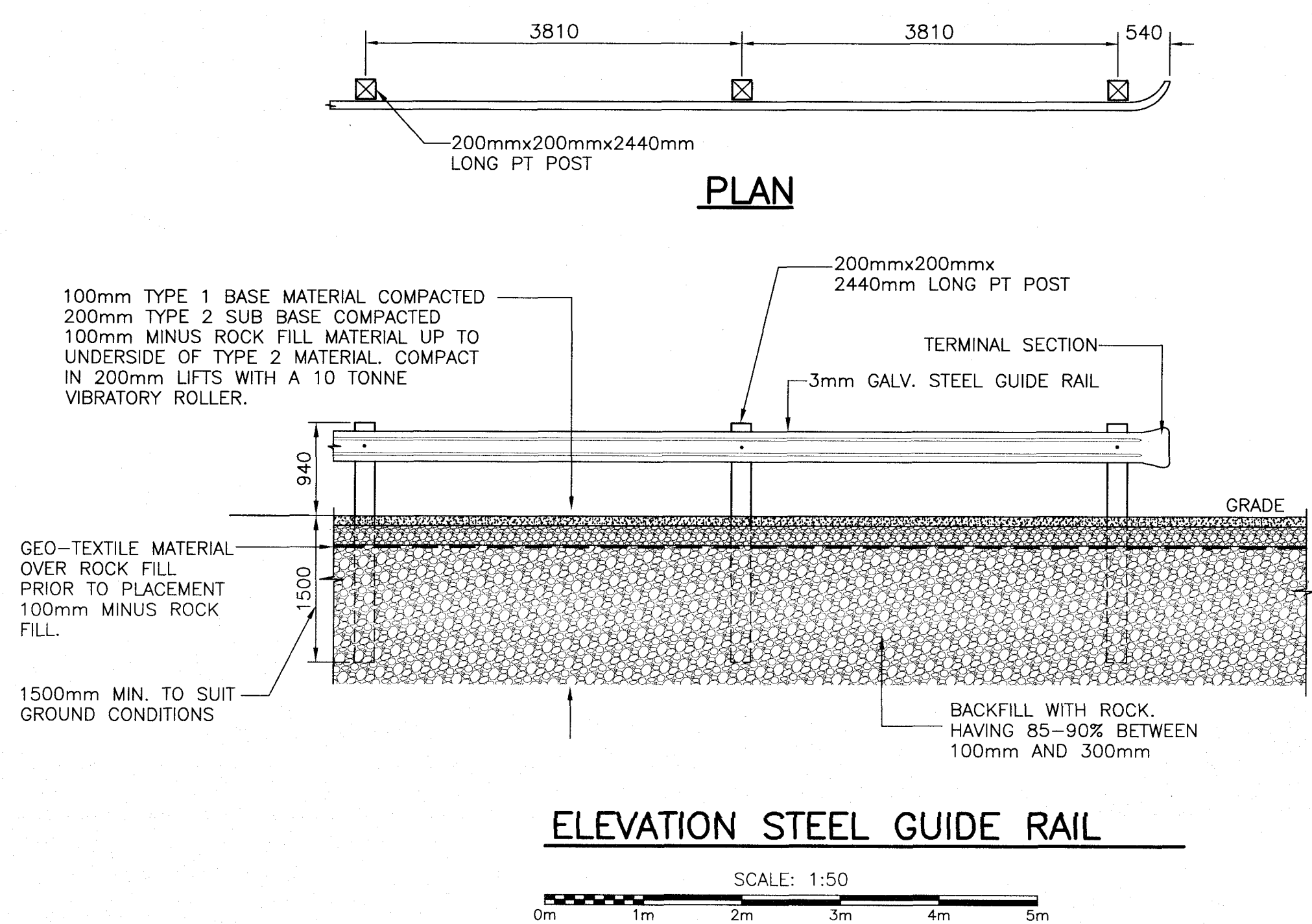
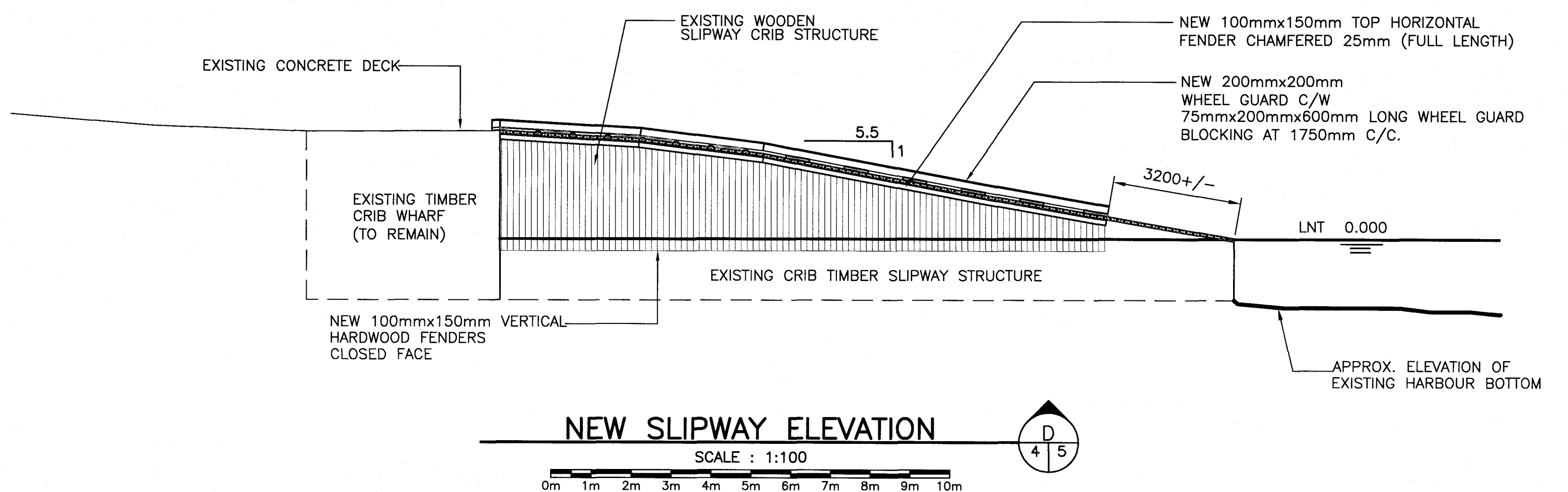
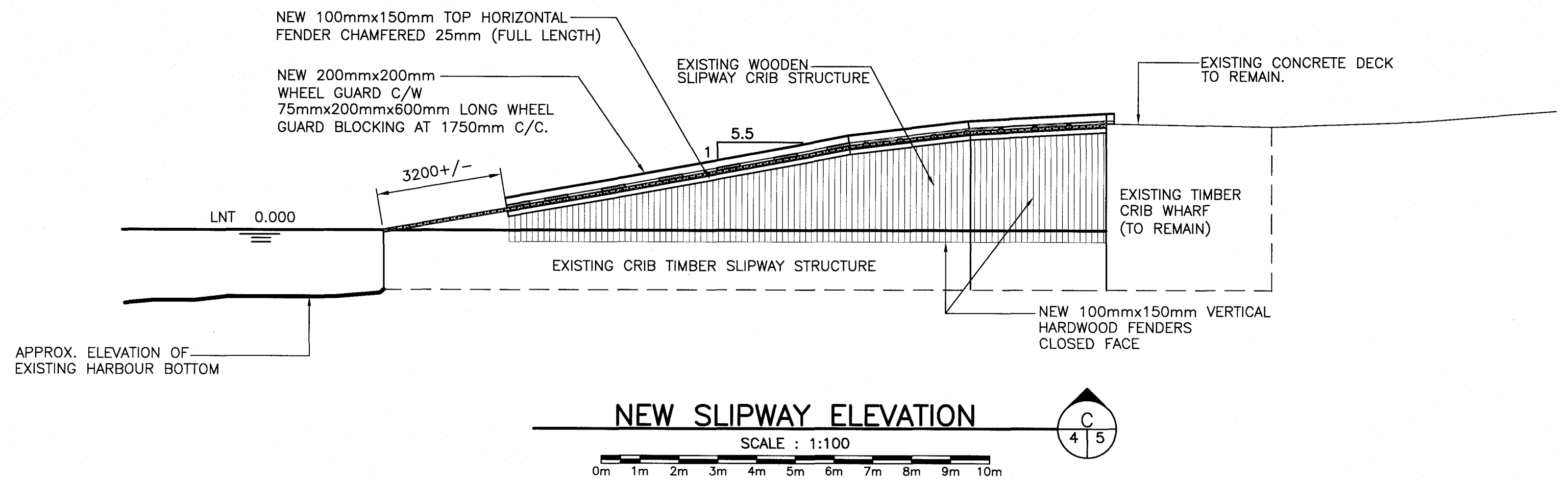
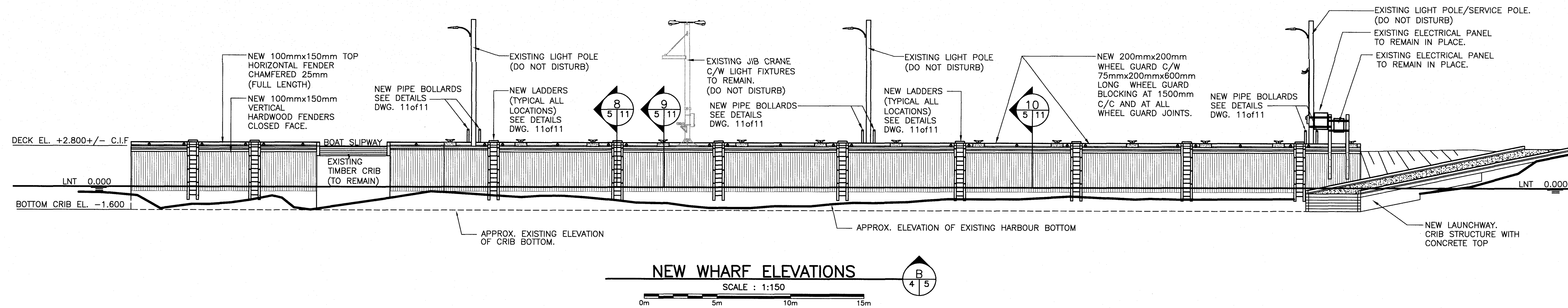
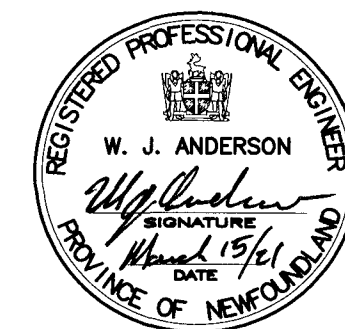
LAUNCHWAY AND WHARF REPAIRS DANIEL'S HARBOUR, NL

drawing	desin
designed	W.J.ANDERSON concu
date	MARCH, 2021
drawn	R.S.H. desine
date	MARCH, 2021
approved	approve
date	
Tender	Submission
DFO Project Manager	no. du projet
723438	
drawing no.	no. du dessin
4 OF 11	

SMALL CRAFT HARBOURS



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01	ISSUED FOR TENDER	16/03/21
revisions		date

project project
LAUNCHWAY SLIPWAY AND WHARF REPAIRS DANIEL'S HARBOUR, NL

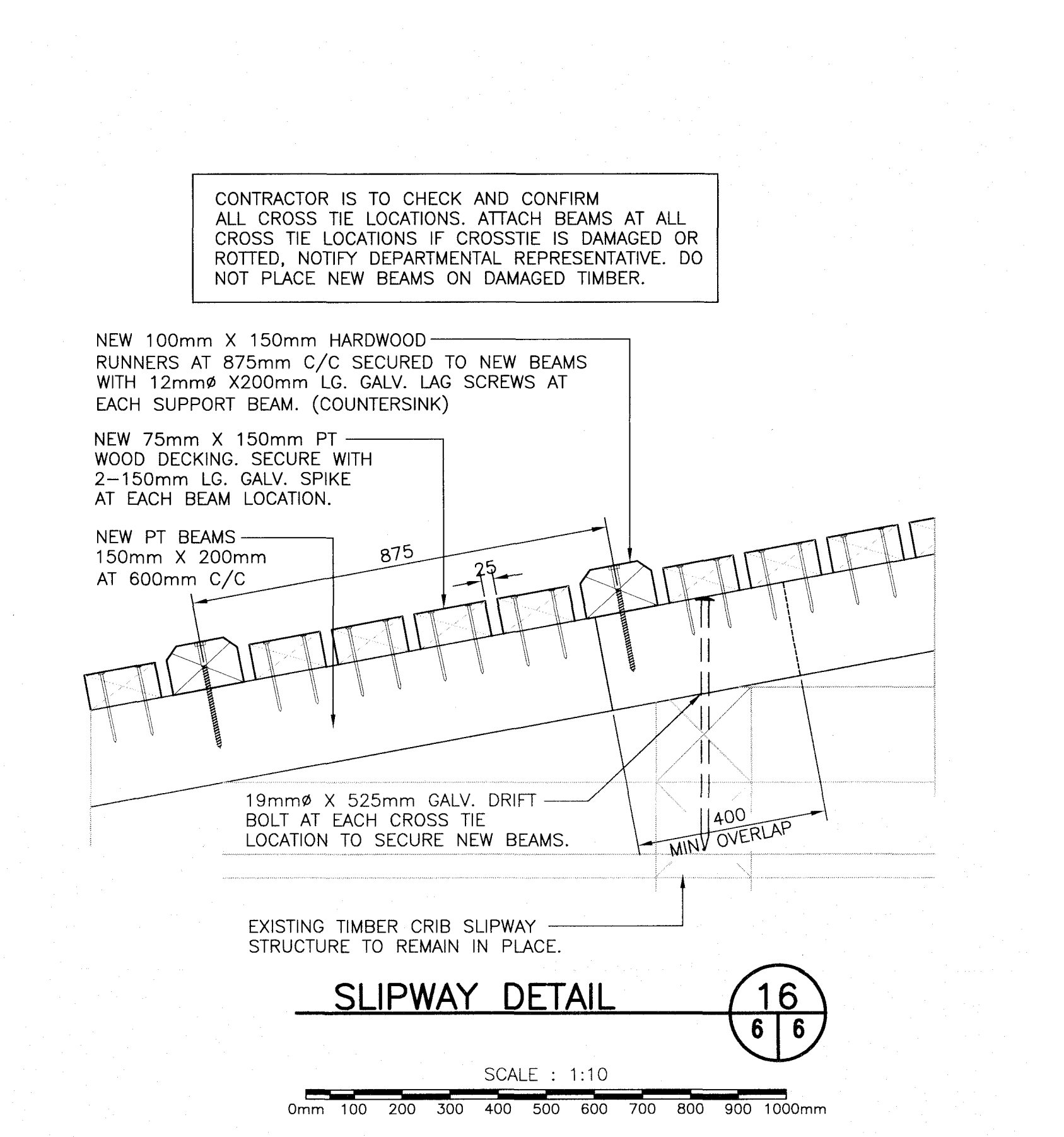
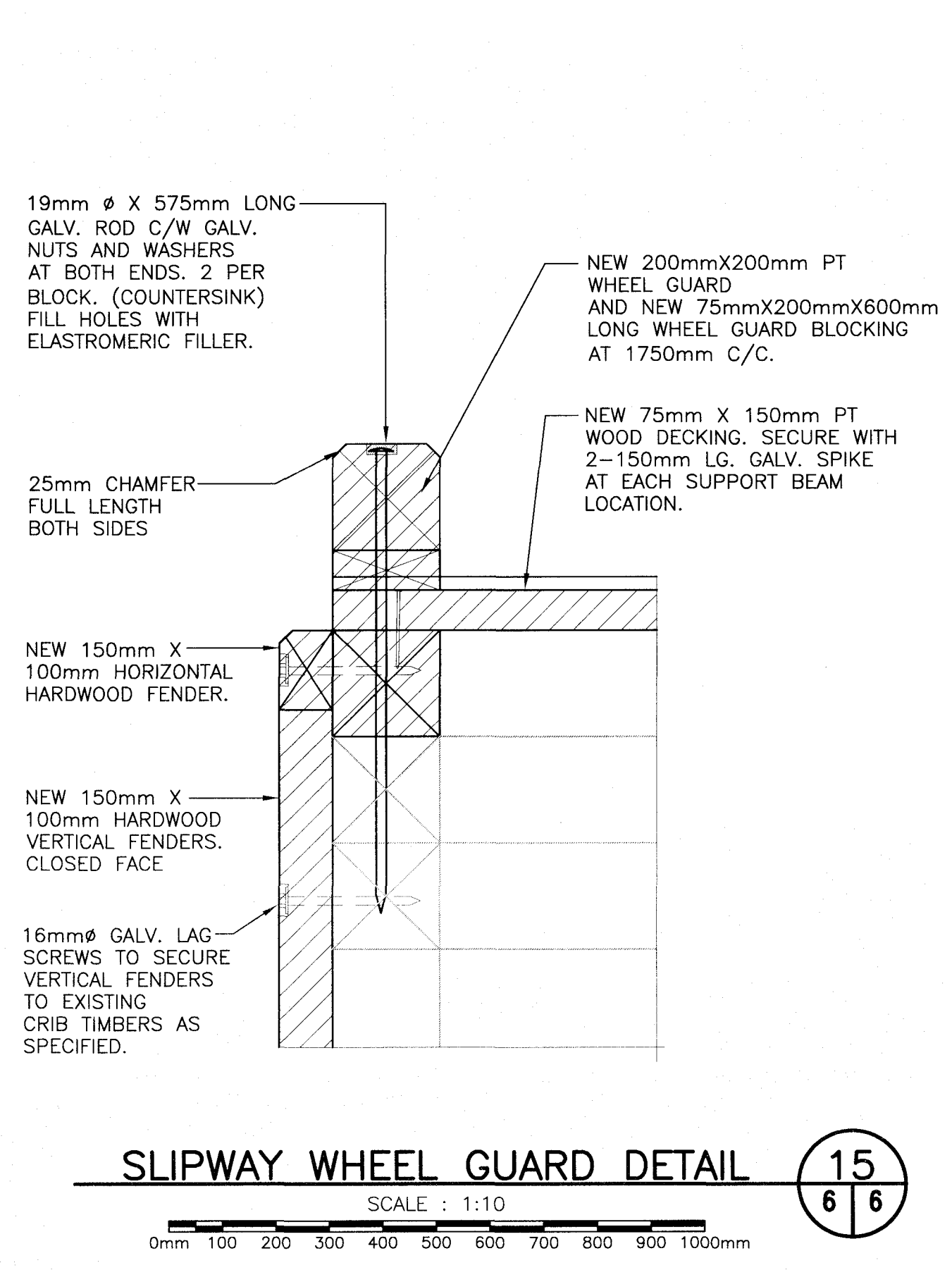
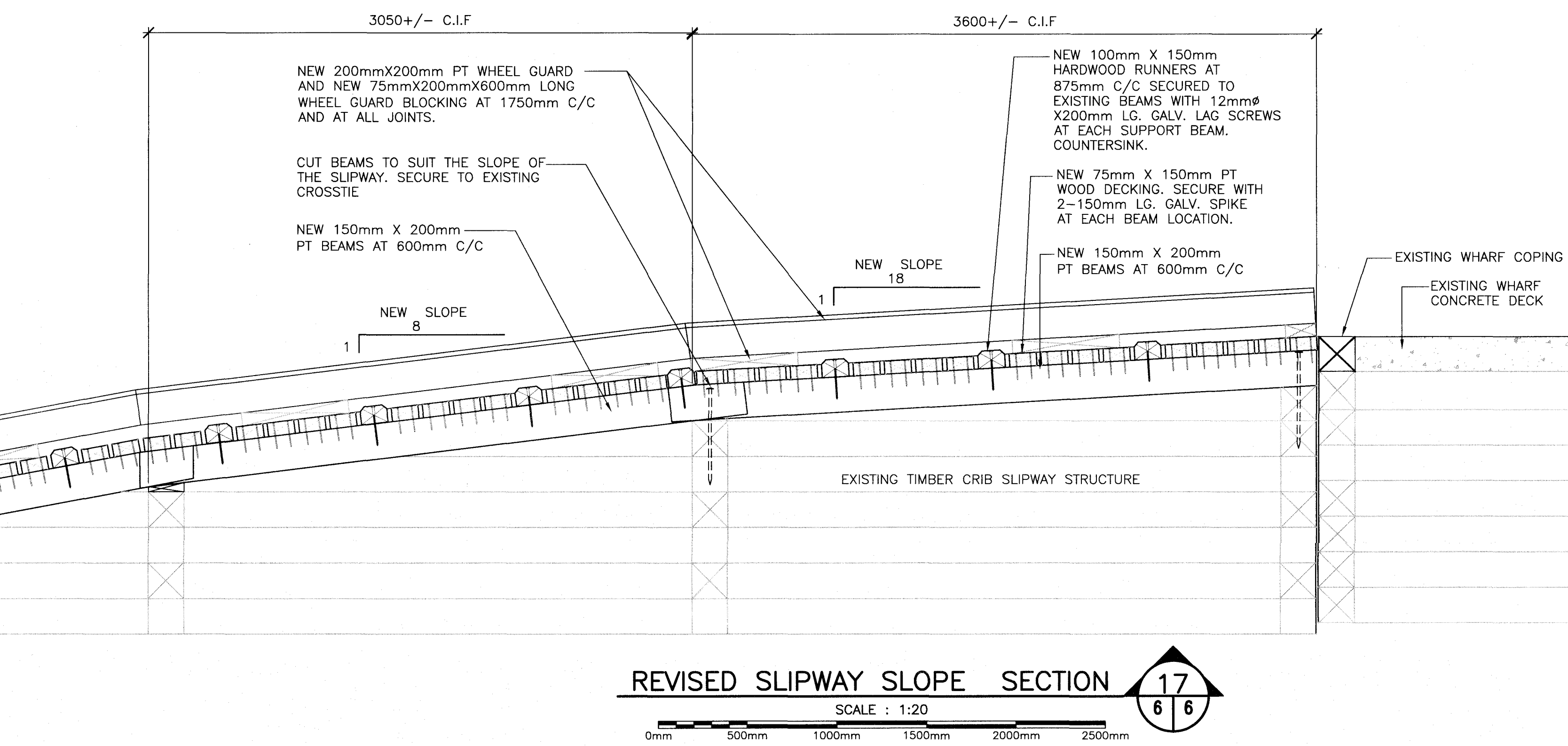
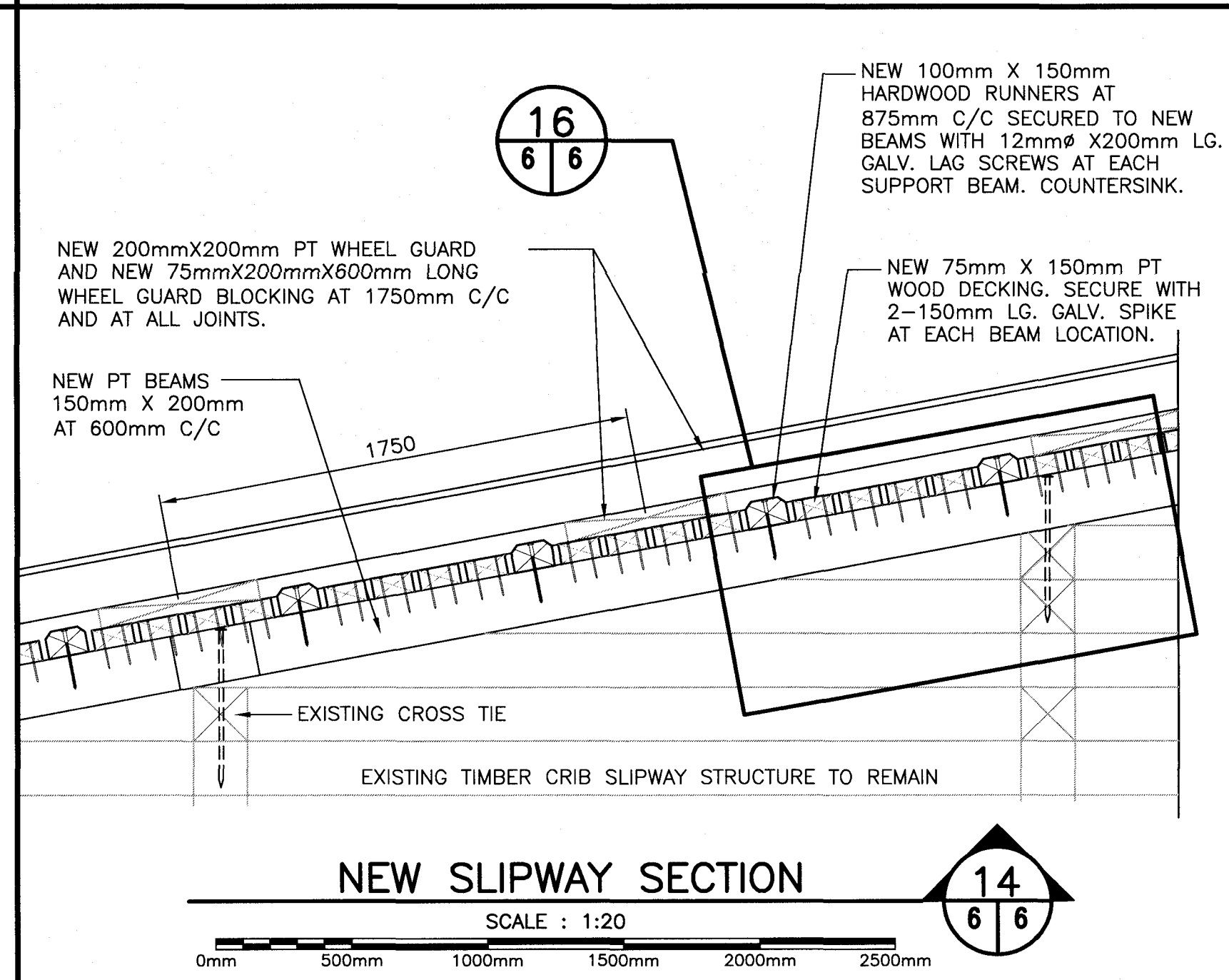
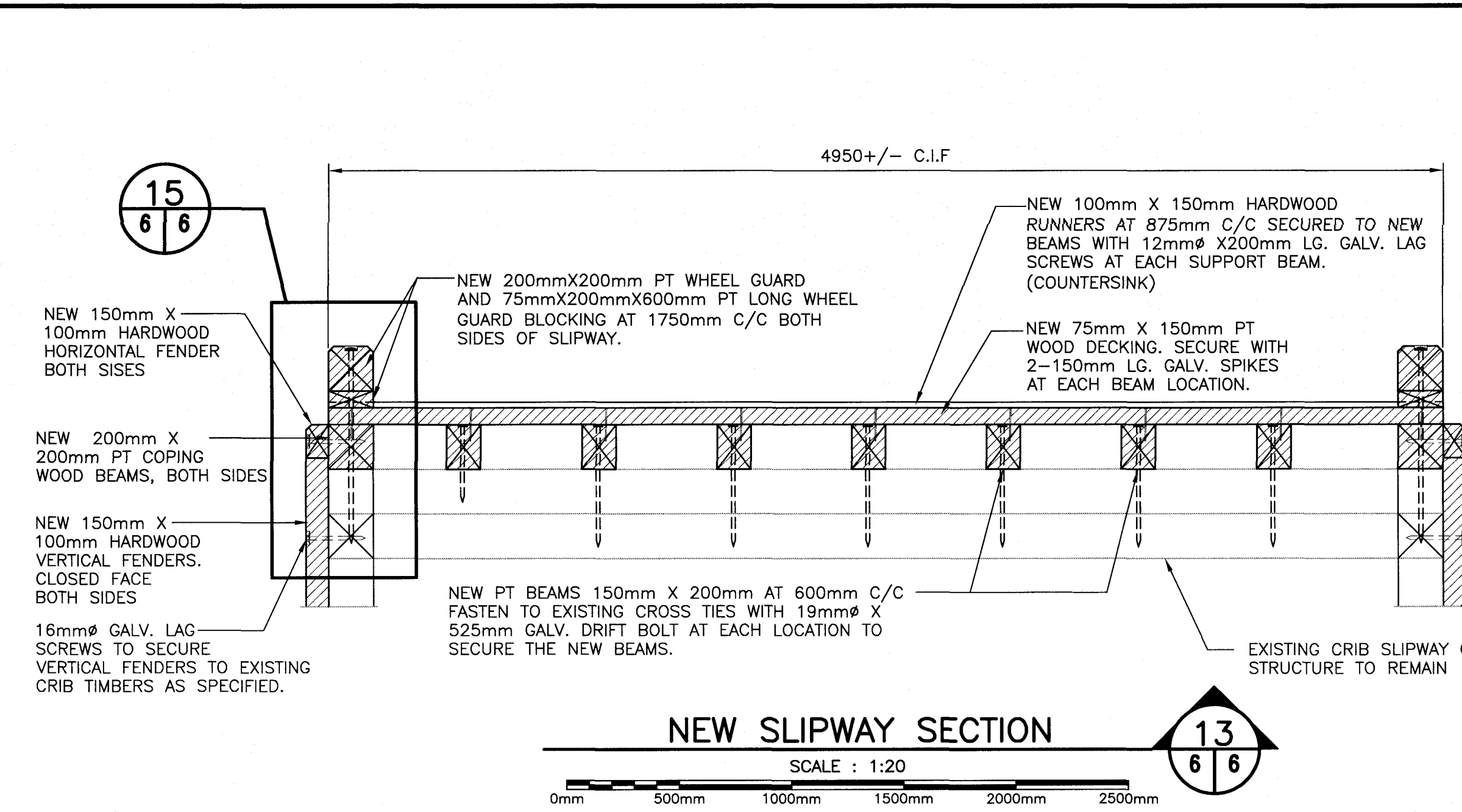
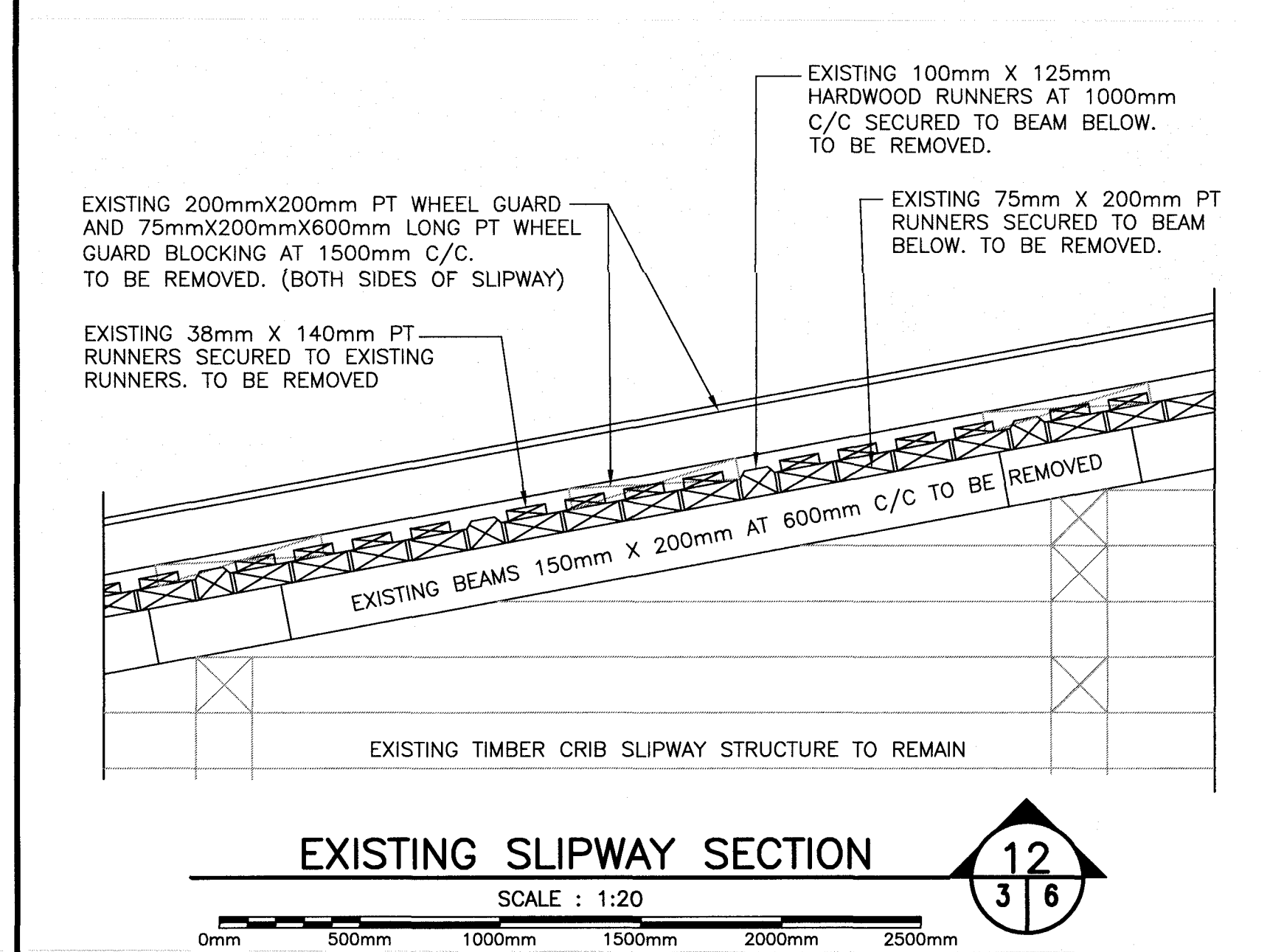
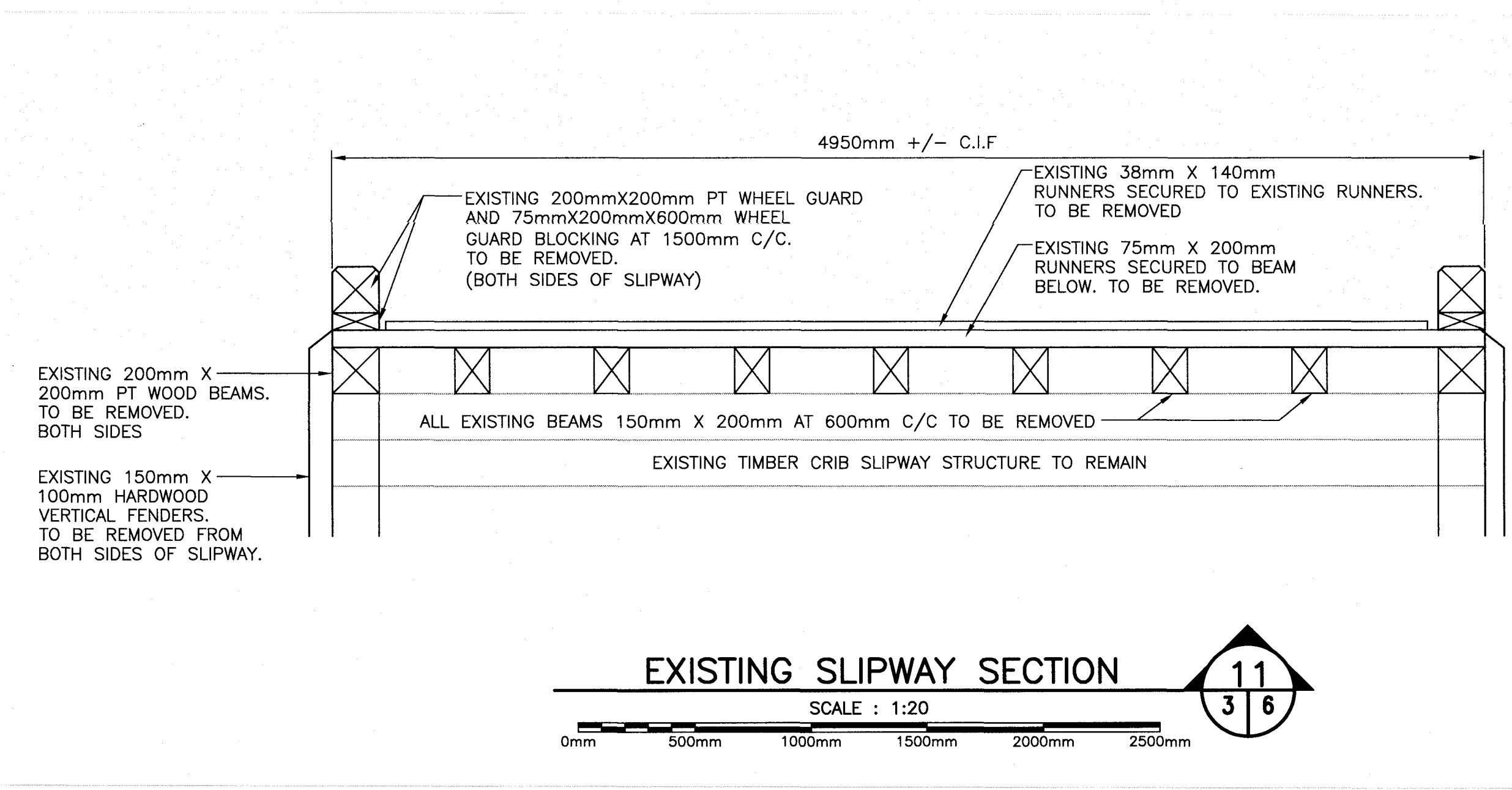
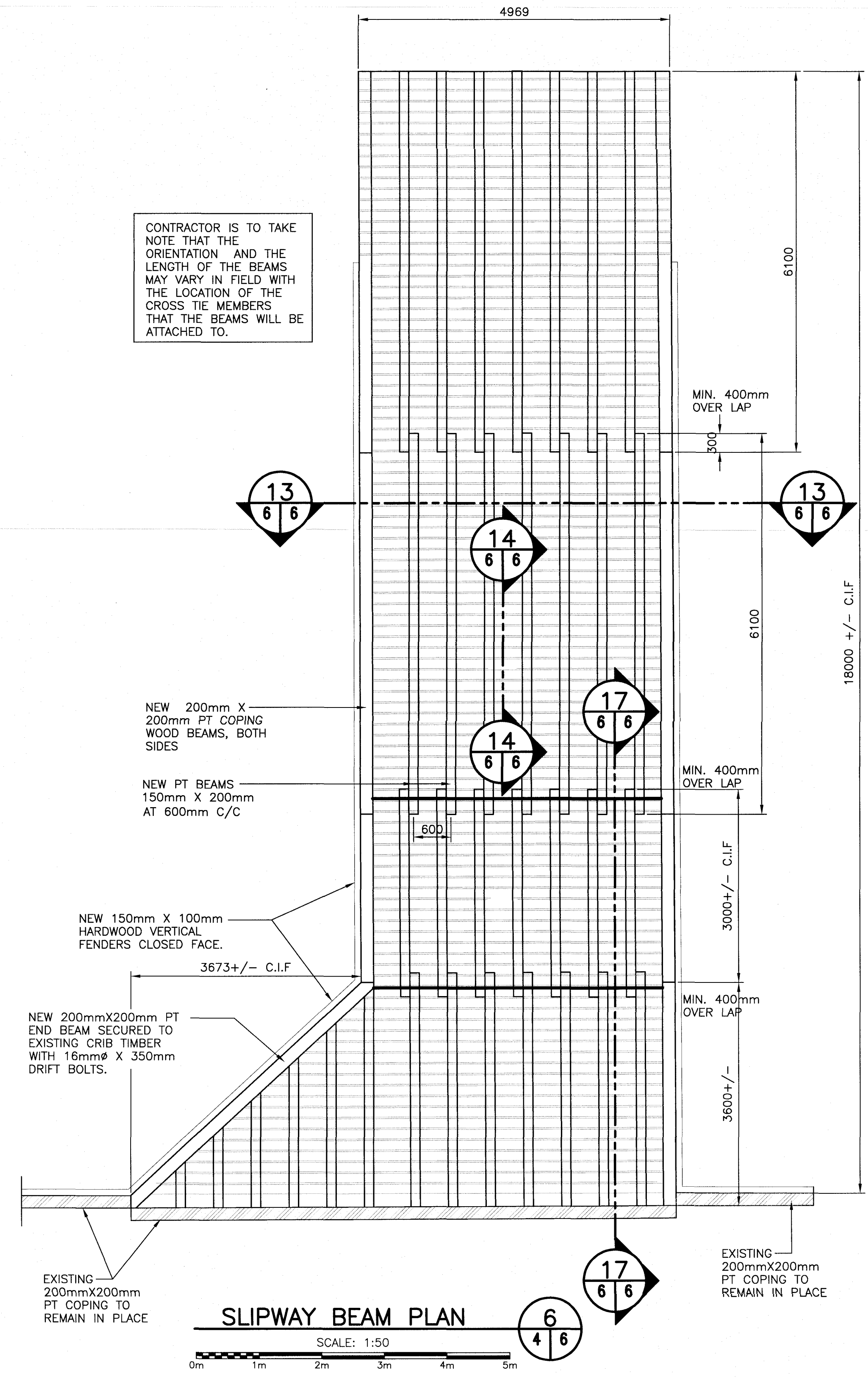
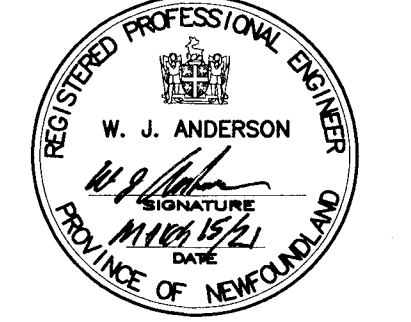
drawing design
NEW WHARF ELEVATIONS AND NEW LAUNCHWAY SECTION

designed W.J.ANDERSON concu
 date MARCH 2021
 drawn R.S.H. dessine
 date MARCH 2021
 approved approve
 date
 tender Submission
 SFD Project Manager Paul Curran
 project number 723438 no. du projet
 drawing no. 5 OF 11 no. du dessin

SMALL CRAFT HARBOURS



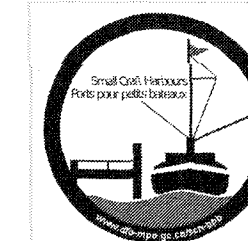
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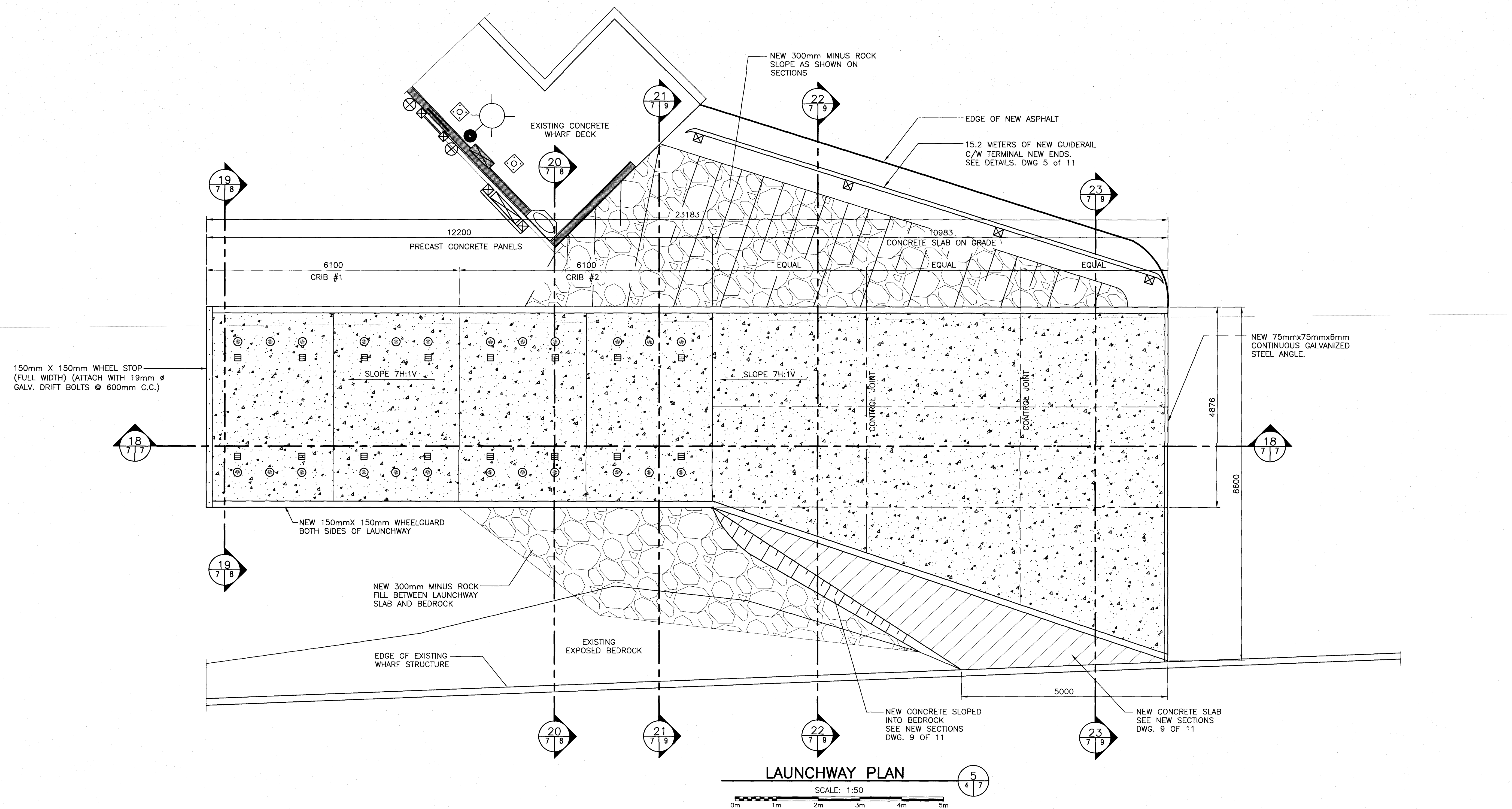
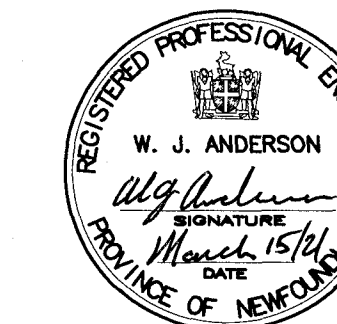
CONTRACTOR IS TO CHECK AND CONFIRM ALL CROSS TIE LOCATIONS. ATTACH BEAMS AT ALL CROSS TIE LOCATIONS IF CROSS TIE IS DAMAGED OR ROTTED, NOTIFY DEPARTMENTAL REPRESENTATIVE. DO NOT PLACE NEW BEAMS ON DAMAGED TIMBER.

01	ISSUED FOR TENDER	16/03/21
revisions		date
project	LAUNCHWAY SLIPWAY AND WHARF REPAIRS DANIEL'S HARBOUR, NL	
project	EXISTING SLIPWAY SECTIONS, NEW SLIPWAY BEAM PLAN NEW SECTIONS AND DETAILS	
designed	W.J. ANDERSON	conco
date	MARCH 2021	
drawn	R.S.H	designe
date	MARCH, 2021	
approved		approve
date		
Tender	Submission	
DFD Project Manager	no. du projet	
project number	723438	
drawing no.	no. du dessin	
	6 OF 11	

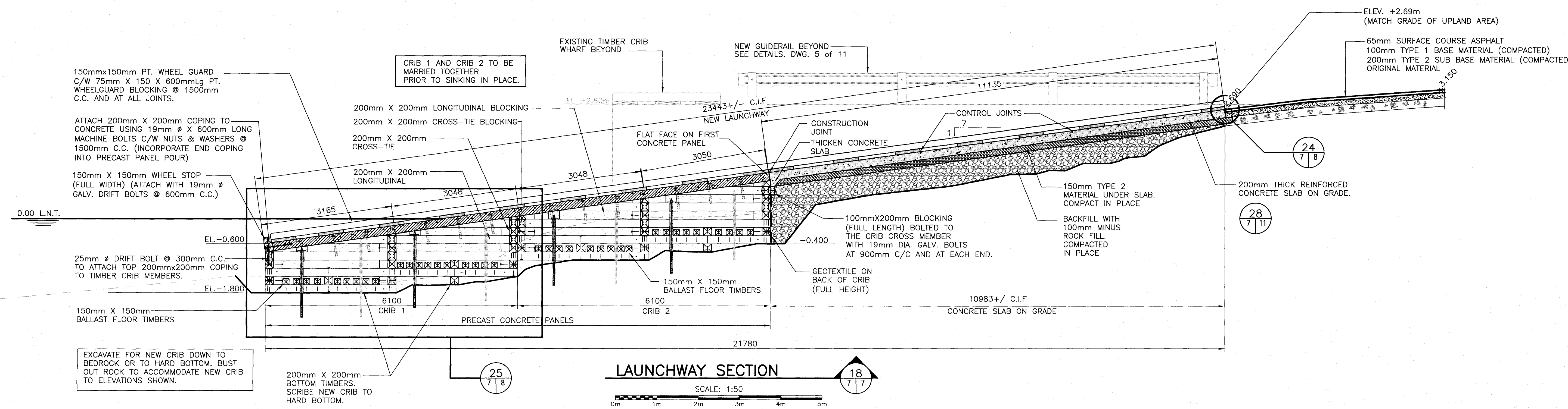
SMALL CRAFT HARBOURS



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LAUNCHWAY PLAN
 SCALE: 1:50



LAUNCHWAY SECTION
 SCALE: 1:50

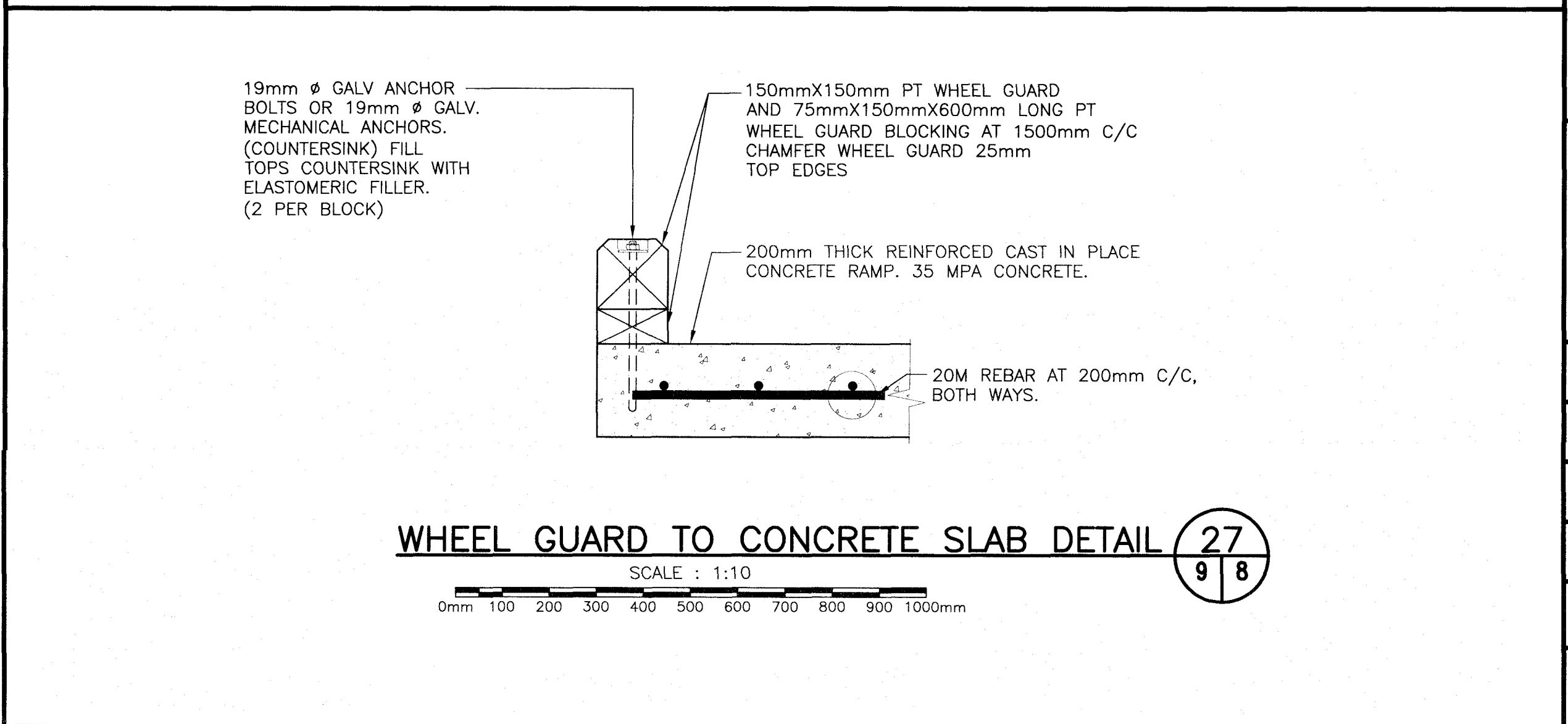
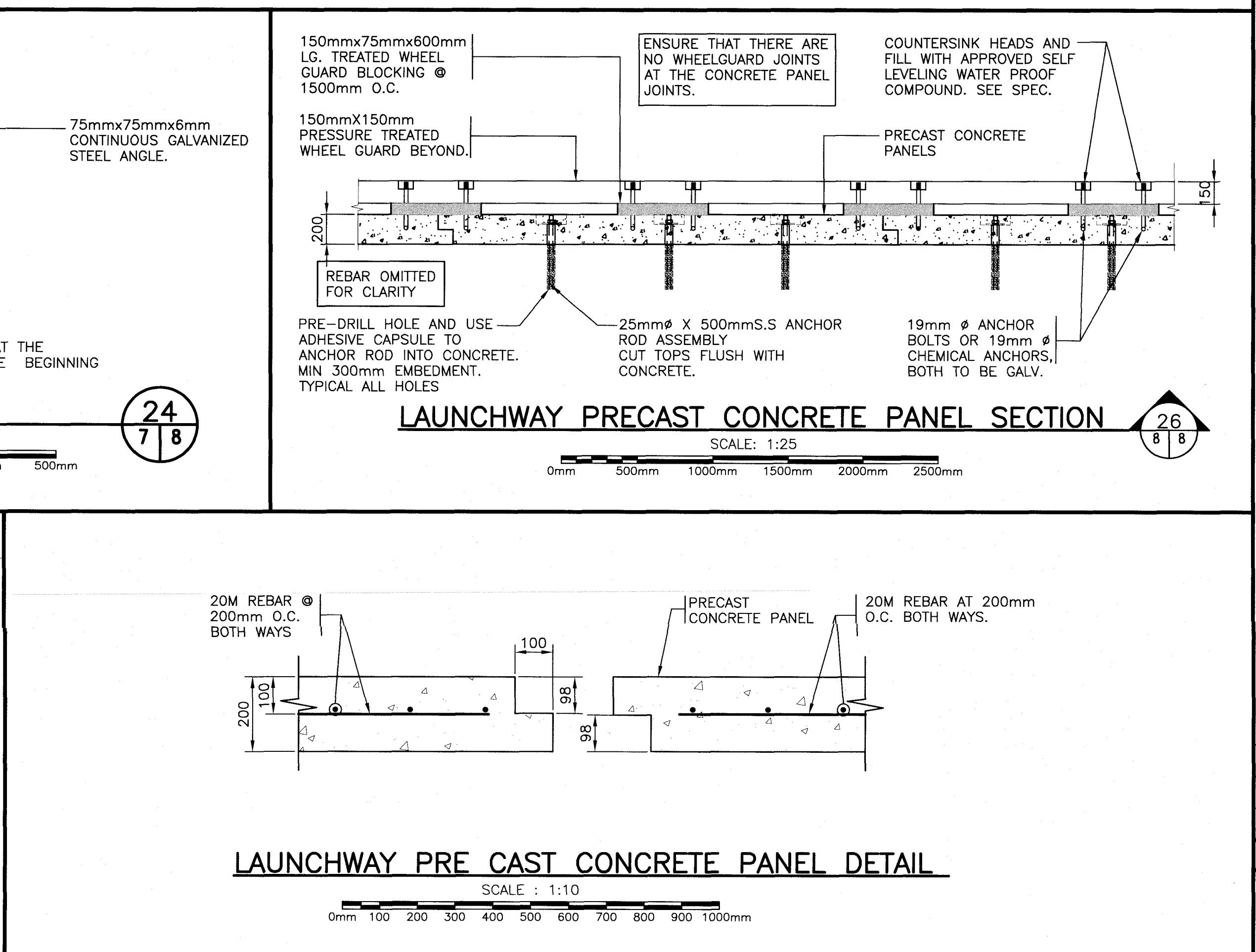
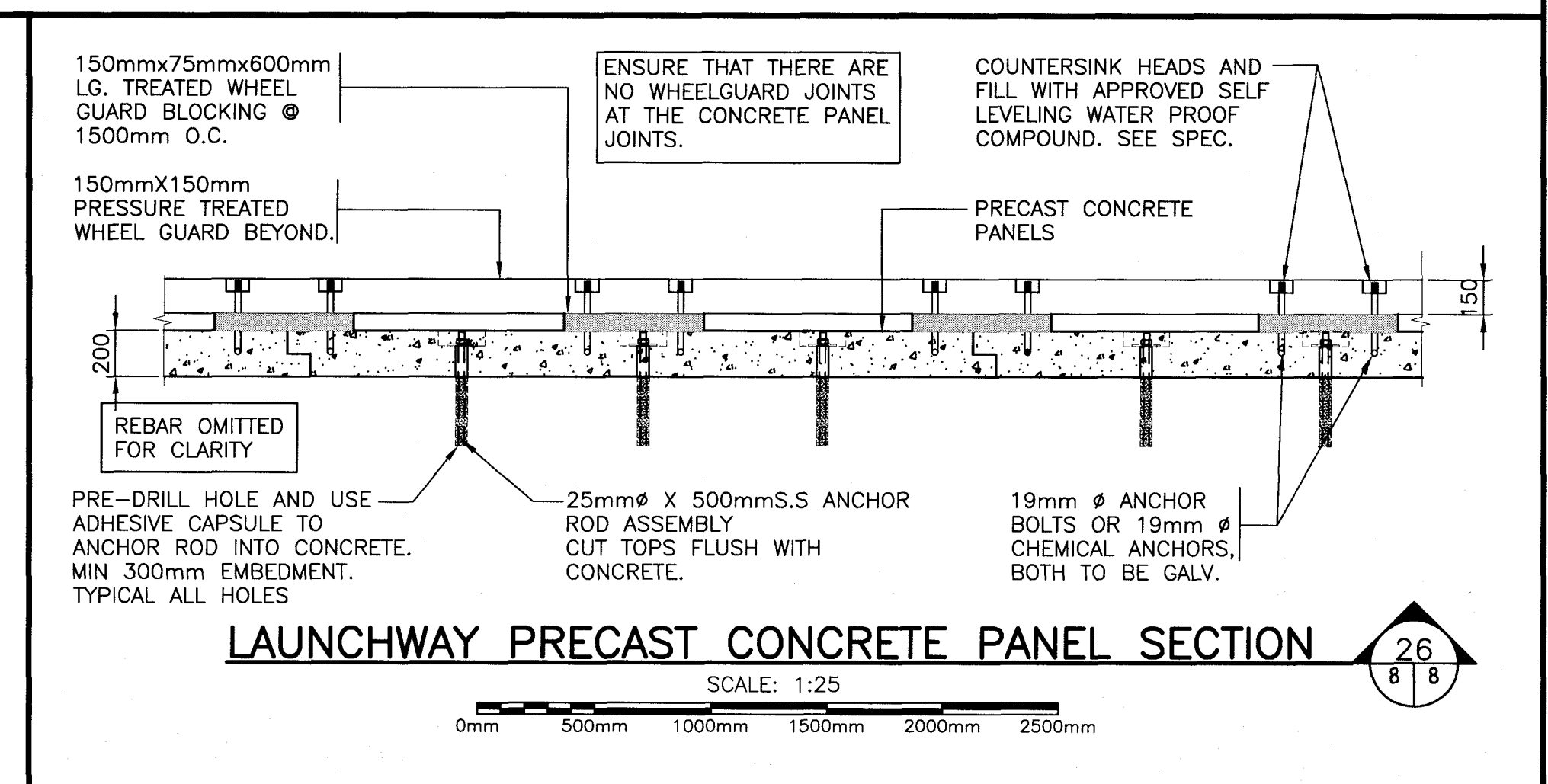
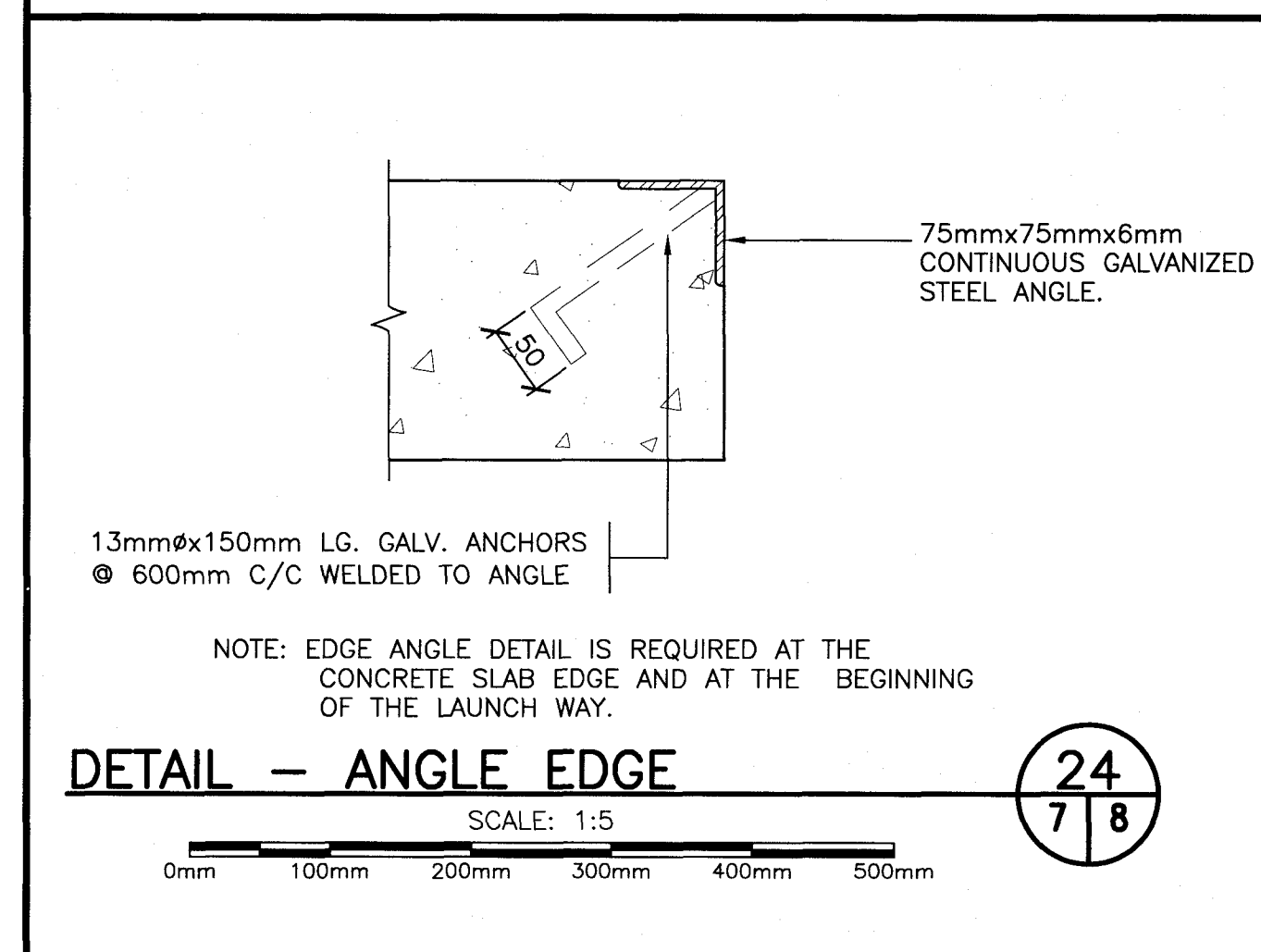
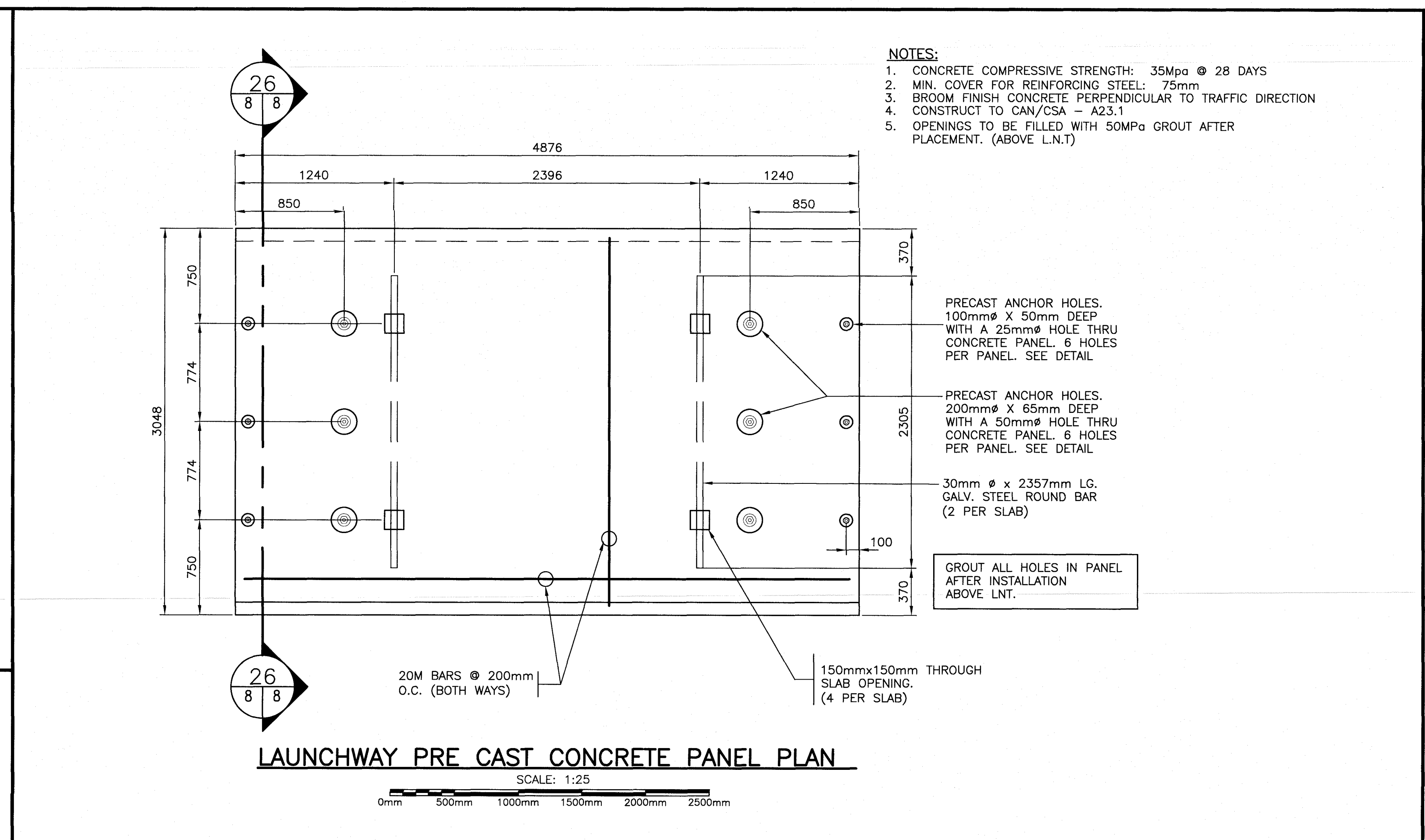
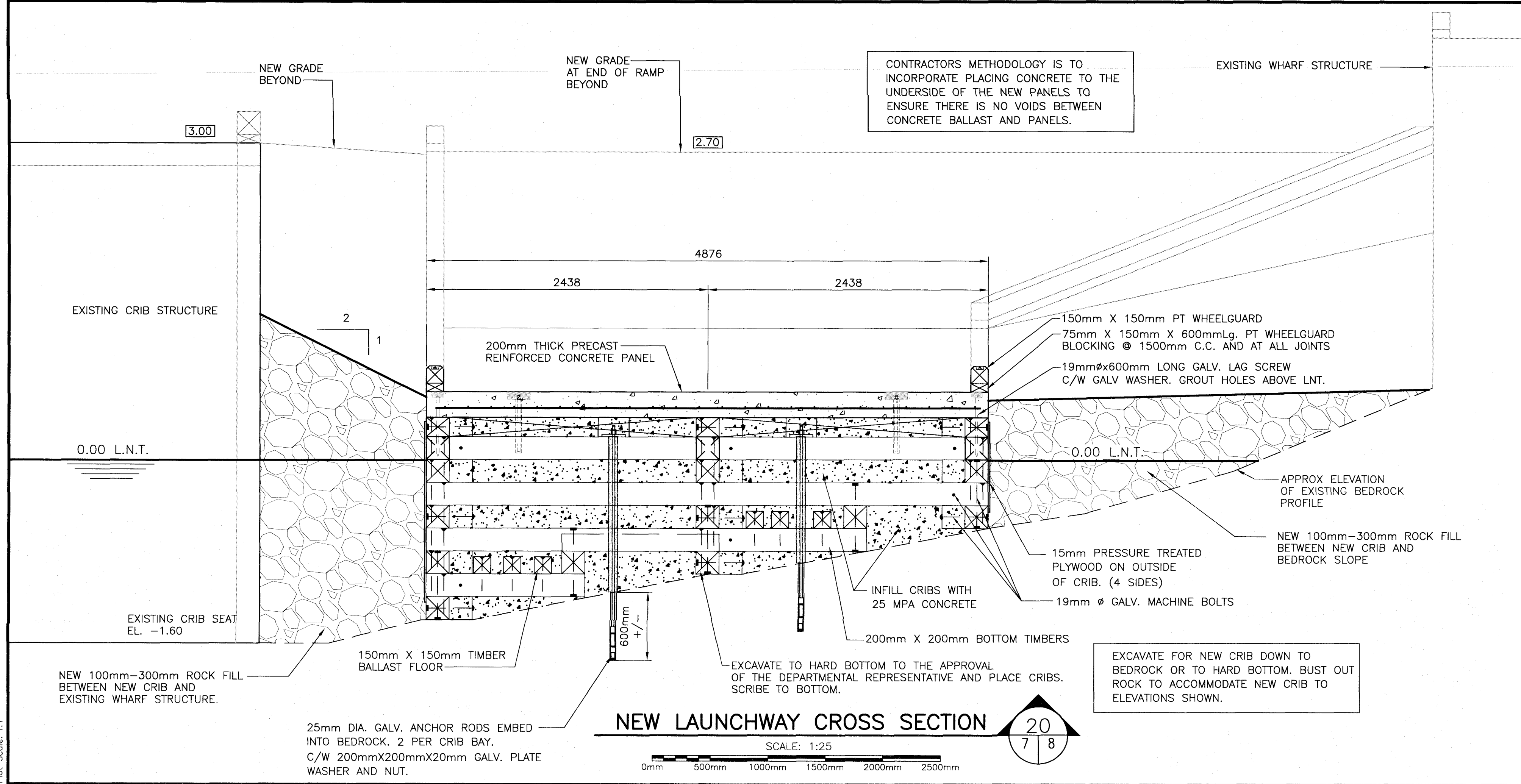
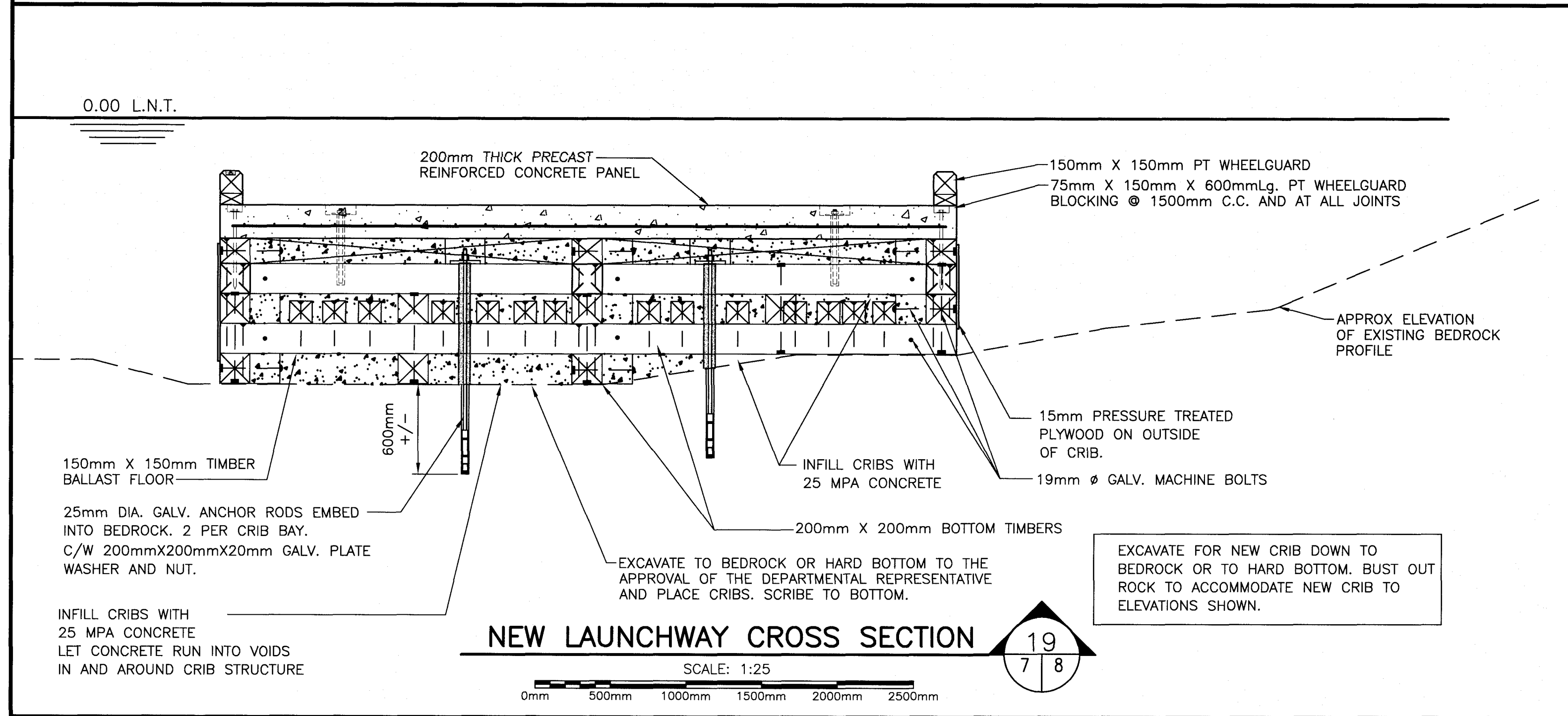
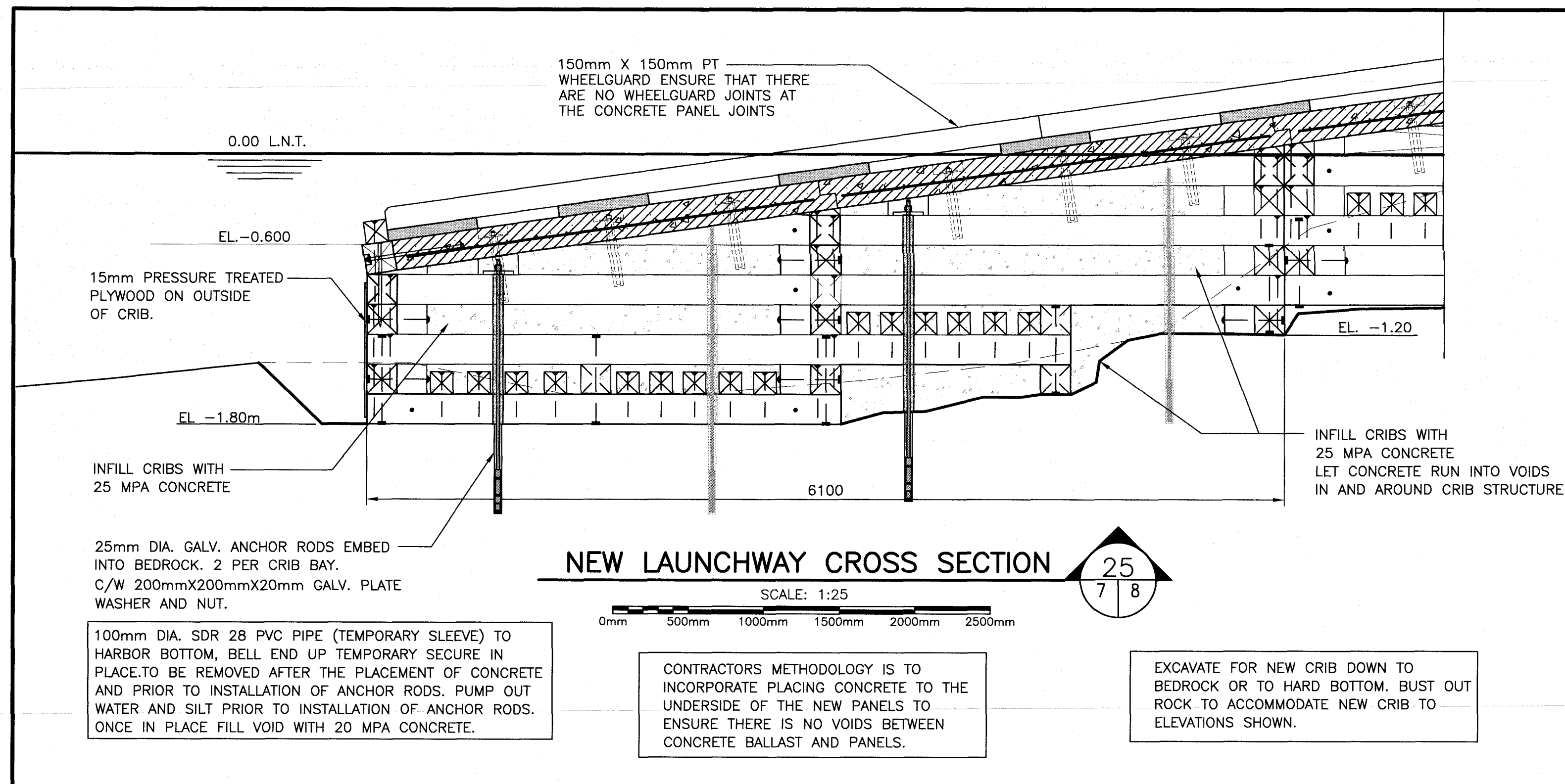
01	ISSUED FOR TENDER	16/03/21
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revisions	date
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project **LAUNCHWAY SLIPWAY AND WHARF REPAIRS DANIEL'S HARBOUR, NL** project

LAUNCHWAY PLAN AND LAUNCHWAY SECTION

designed	W.J. ANDERSON	concu
date	MARCH 2021	
drawn	R.S.H	dessine
date	MARCH 2021	
approved		approve
date		
Tender	<i>Paul Curran</i>	Sourmission
DFG Project Manager		
project number	723438	no. du projet
drawing no.	7 OF 11	no. du dessin



- NOTES:**
1. CONCRETE COMPRESSIVE STRENGTH: 35MPa @ 28 DAYS
 2. MIN. COVER FOR REINFORCING STEEL: 75mm
 3. BROOM FINISH CONCRETE PERPENDICULAR TO TRAFFIC DIRECTION
 4. CONSTRUCT TO CAN/CSA - A23.1
 5. OPENINGS TO BE FILLED WITH 50MPa GROUT AFTER PLACEMENT. (ABOVE L.N.T)

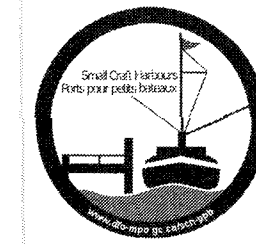
Fisheries and Oceans Canada / Pêches et Océans Canada

SMALL CRAFT HARBOURS

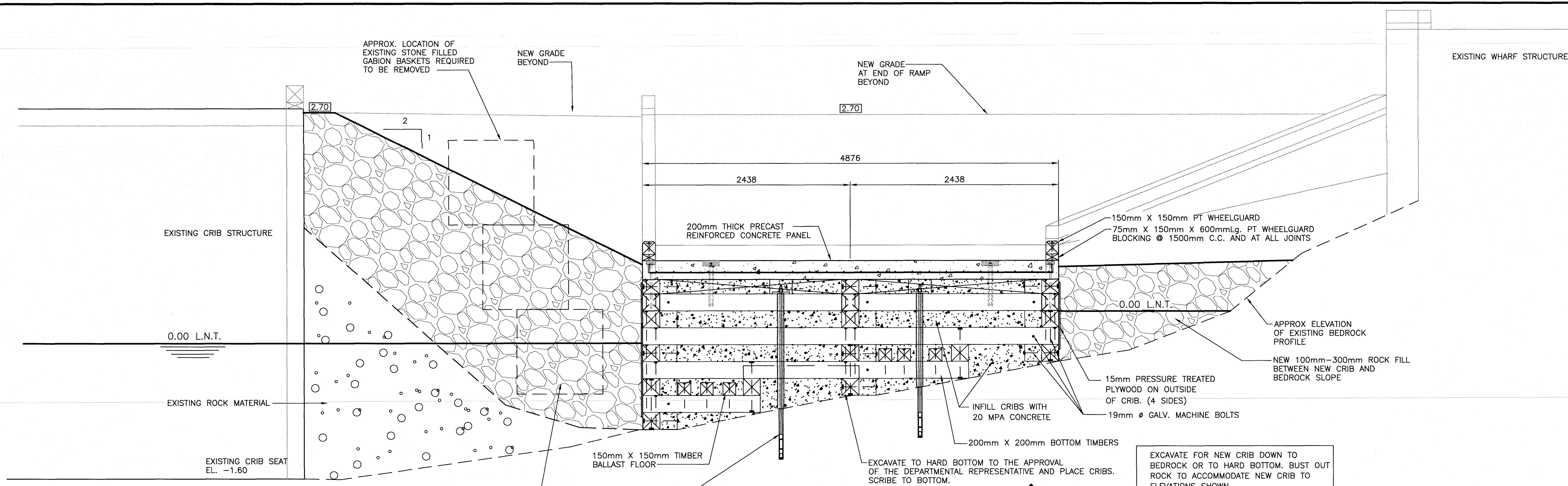
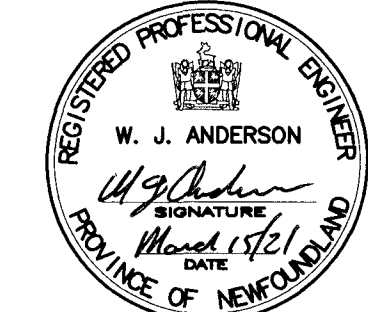
PROVINCE OF NEWFOUNDLAND
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ANDERSON ENGINEERING CONSULTANTS LTD.
To practice Professional Engineering in Newfoundland and Labrador, Permit No. 02 issued by APECO 80092 which is valid for the year 2021.

REGISTERED PROFESSIONAL ENGINEER
W. J. ANDERSON
PROVINCE OF NEWFOUNDLAND

01	ISSUED FOR TENDER	16/03/21
revisions		date
project	LAUNCHWAY SLIPWAY AND WHARF REPAIRS DANIEL'S HARBOUR, NL	project
design	NEW LAUNCHWAY CROSS SECTIONS AND PRECAST PANEL PLAN, SECTION AND DETAILS	design
designed	W.J. ANDERSON	concu
date	MARCH 2021	
drawn	R.S.H	designe
date	MARCH 2021	
approved		approve
date		
Tender	Paul Curran	Submission
DRD Project Manager		
project number	723438	no. du projet
drawing no.	8 OF 11	no. du dessin



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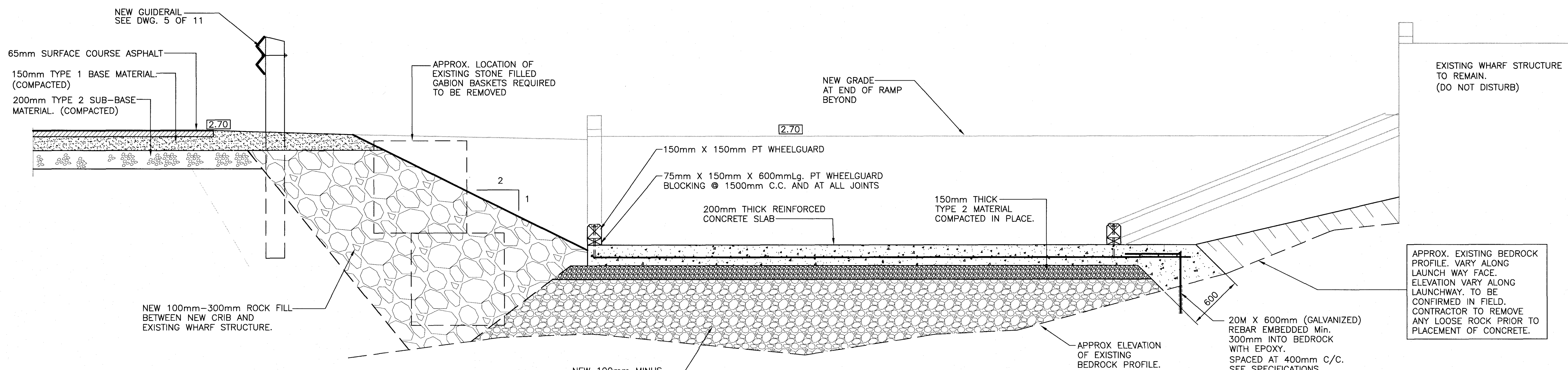


NEW LAUNCHWAY CROSS SECTION 21
 SCALE: 1:25

100mm DIA. SDR 28 PVC PIPE (TEMPORARY SLEEVE) TO HARBOR BOTTOM, BELL END UP TEMPORARY SECURE IN PLACE TO BE REMOVED AFTER THE PLACEMENT OF CONCRETE AND PRIOR TO INSTALLATION OF ANCHOR RODS. PUMP OUT WATER AND SILT PRIOR TO INSTALLATION OF ANCHOR RODS. ONCE IN PLACE FILL VOID WITH 20 MPA CONCRETE.

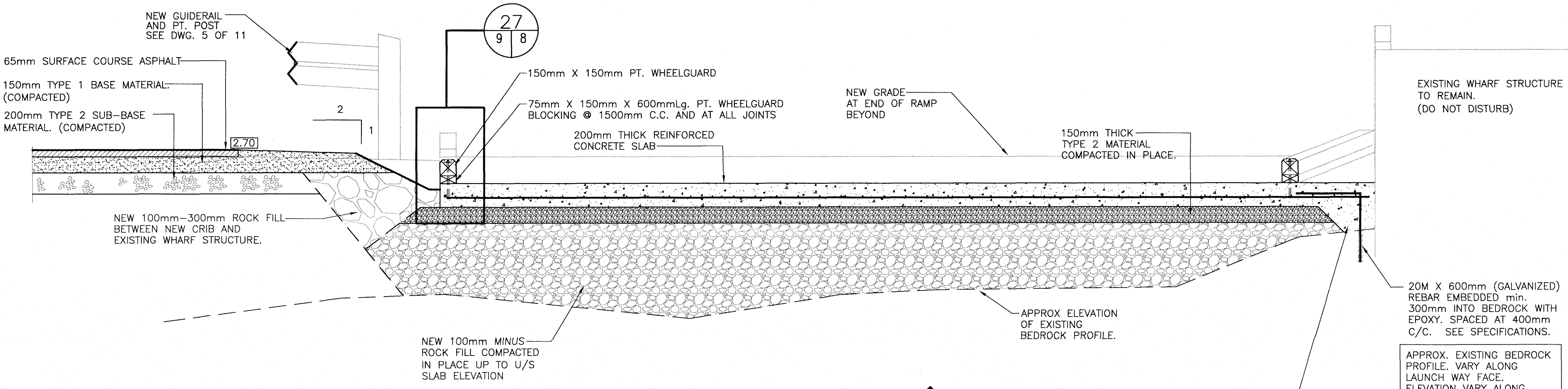
25mm DIA. GALV. ANCHOR RODS EMBED INTO BEDROCK, 2 PER CRIB BAY. C/W 200mm X 200mm X 20mm GALV. PLATE WASHER AND NUT.

EXCAVATE FOR NEW CRIB DOWN TO BEDROCK OR TO HARD BOTTOM. BUST OUT ROCK TO ACCOMMODATE NEW CRIB TO ELEVATIONS SHOWN.



NEW LAUNCHWAY CROSS SECTION 22
 SCALE: 1:25

APPROX. EXISTING BEDROCK PROFILE. VARY ALONG LAUNCH WAY FACE. ELEVATION VARY ALONG LAUNCHWAY. TO BE CONFIRMED IN FIELD. CONTRACTOR TO REMOVE ANY LOOSE ROCK PRIOR TO PLACEMENT OF CONCRETE.



NEW LAUNCHWAY CROSS SECTION 23
 SCALE: 1:25

APPROX. EXISTING BEDROCK PROFILE. VARY ALONG LAUNCH WAY FACE. ELEVATION VARY ALONG LAUNCHWAY. TO BE CONFIRMED IN FIELD. CONTRACTOR TO REMOVE ANY LOOSE ROCK PRIOR TO PLACEMENT OF CONCRETE.

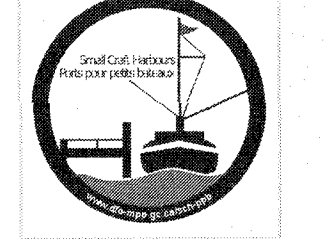
01	ISSUED FOR TENDER	16/03/21
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LAUNCHWAY SLIPWAY AND WHARF REPAIRS DANIEL'S HARBOUR, NL

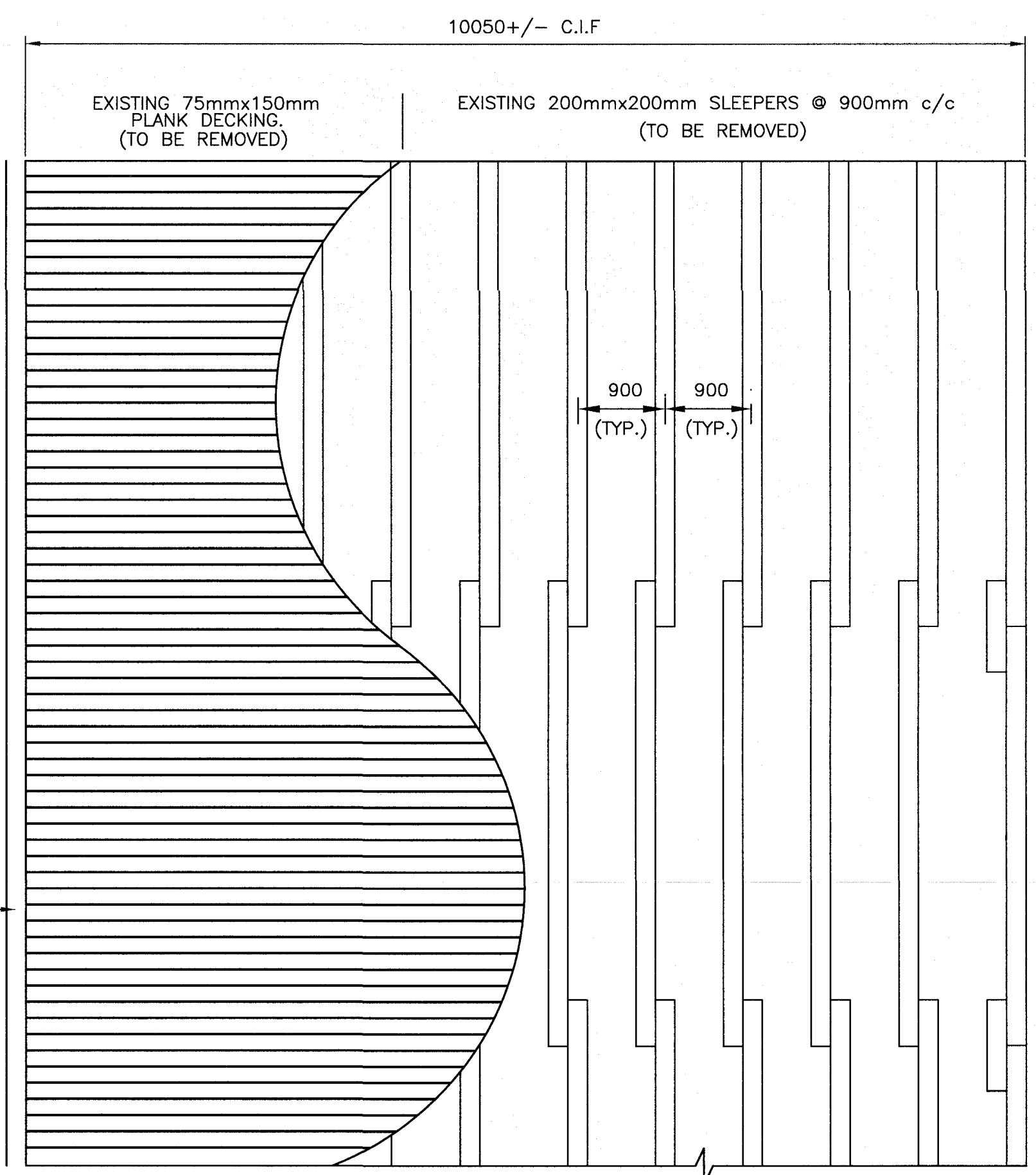
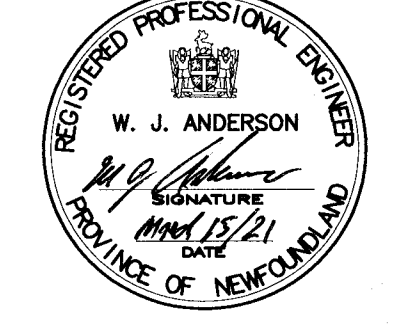
NEW LAUNCHWAY CROSS SECTIONS

designed	W.J. ANDERSON	concu
date	MARCH 2021	
drawn	R.S.H	dessine
date	MARCH 2021	
approved		approve
date		
Tender	Paul Curran	Submission
DFO Project Manager		
project number	723438	no. du projet
drawing no.	9 OF 11	no. du dessin

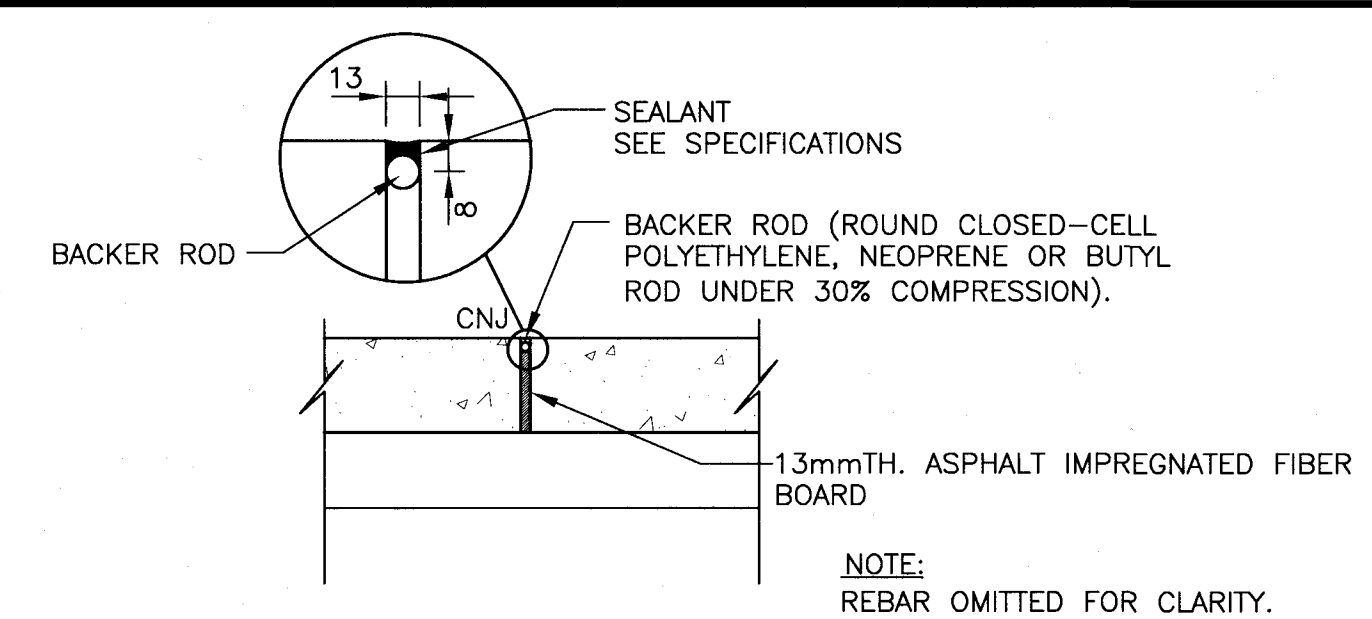
SMALL CRAFT HARBOURS



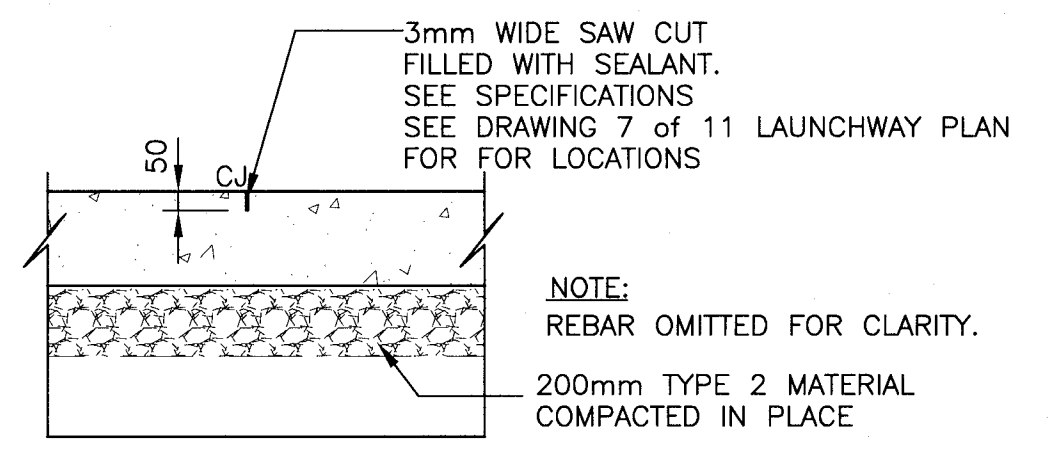
PROVINCE OF NEWFOUNDLAND
PERMIT HOLDER
 This Permit Allows
 ANDERSON ENGINEERING CONSULTANTS LTD.
 To practice Professional Engineering
 in Newfoundland and Labrador.
 Permit No. as Issued by APECN 80092
 which is valid for the year 2021.



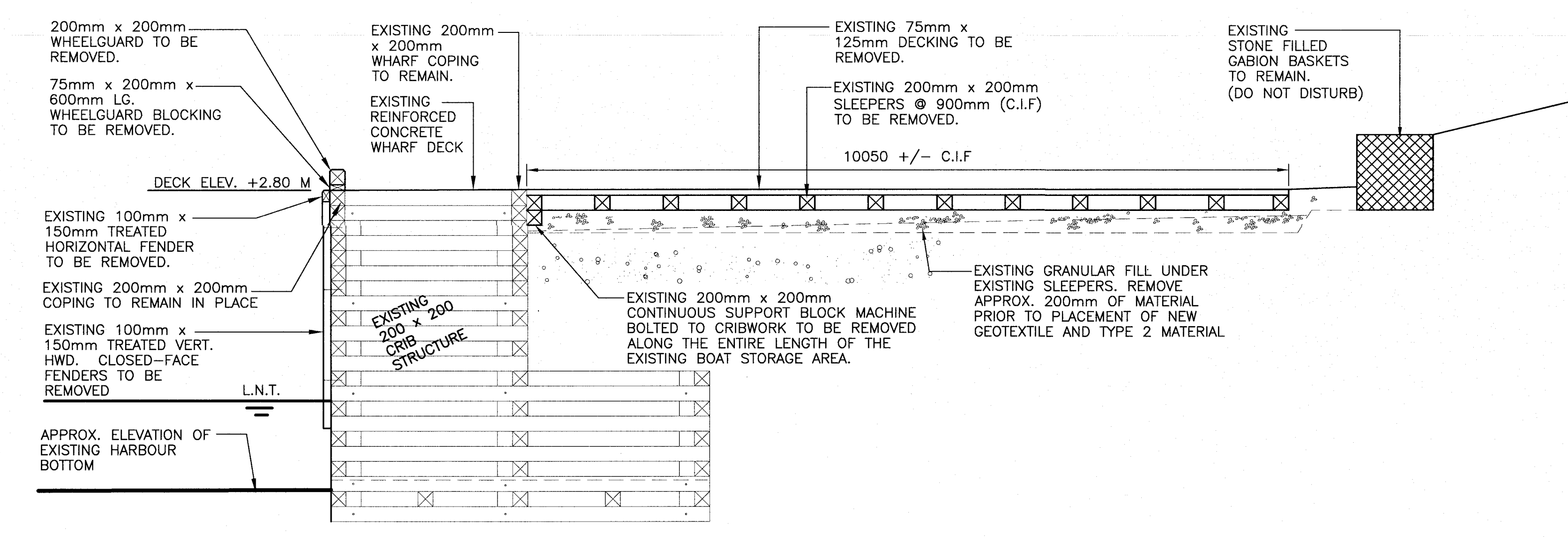
EXISTING BOAT STORAGE PARTIAL PLAN
 SCALE: 1:50



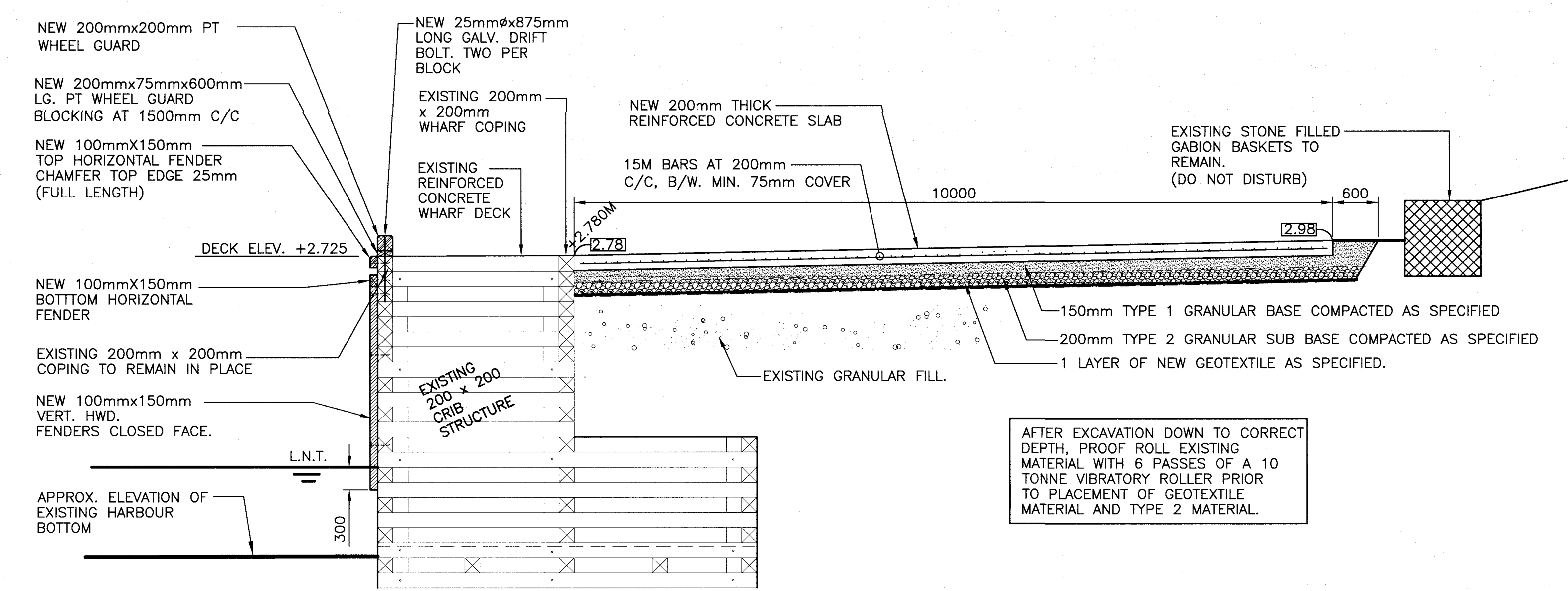
TYPICAL CONSTRUCTION JOINT DETAIL
 SCALE: 1:20



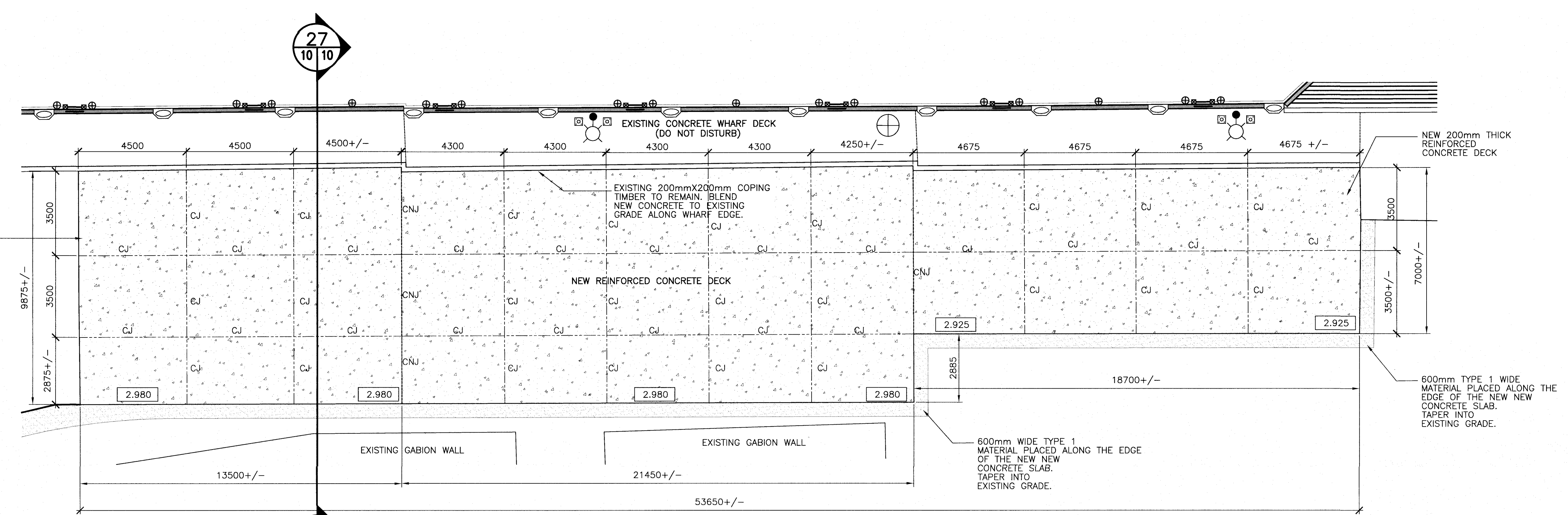
TYPICAL CONTROL JOINT DETAIL
 SCALE: 1:20



EXISTING SECTION (BOAT STORAGE)
 SCALE: 1:50



NEW SECTION (BOAT STORAGE)
 SCALE: 1:50



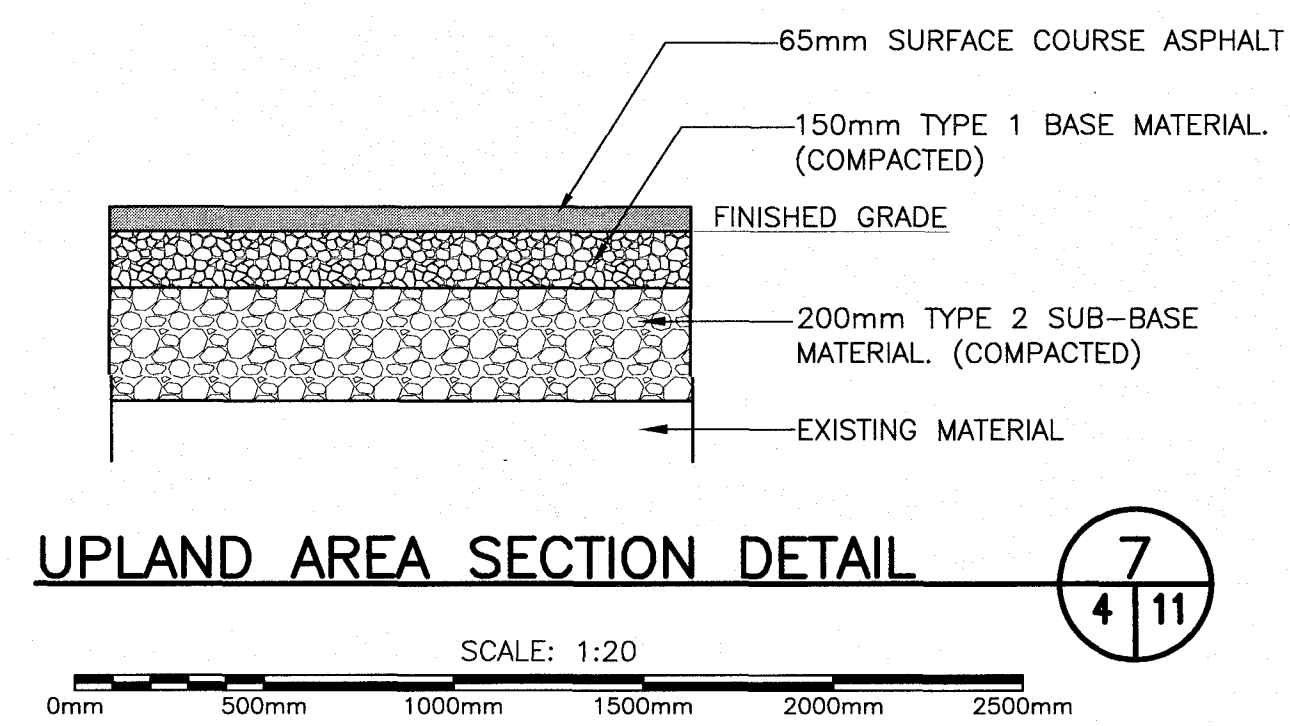
NEW CONCRETE BOAT STORAGE DECK PLAN
 SCALE: 1:100

01	ISSUED FOR TENDER	16/03/21
revisions		date

project
LAUNCHWAY SLIPWAY AND WHARF REPAIRS DANIEL'S HARBOUR, NL
 project

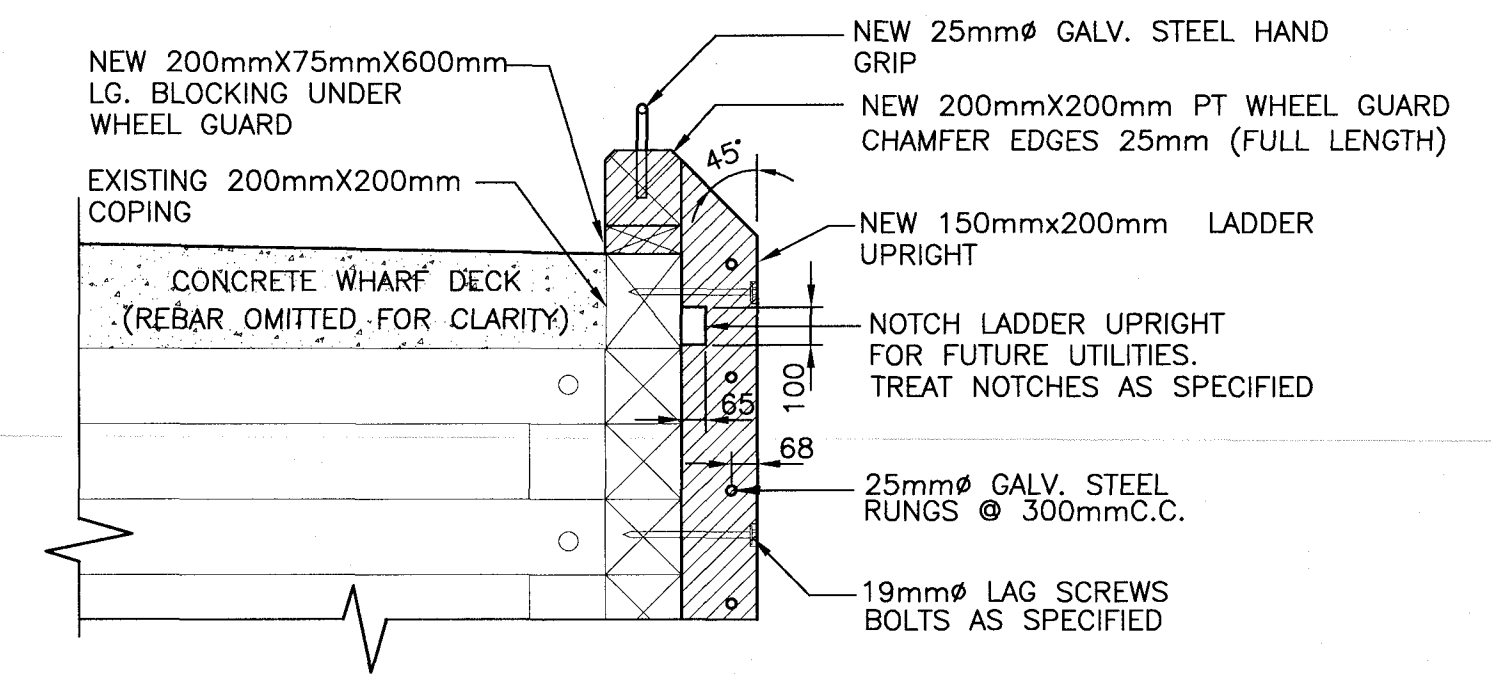
drawing
EXISTING BOAT STORAGE PARTIAL PLAN NEW BOAT STORAGE PLAN, SECTIONS AND DETAILS
 dessin

designed W.J.ANDERSON concu
 date MARCH, 2021
 drawn R.S.H. dessine
 date MARCH, 2021
 approved approve
 date
 Tender Paul Curran Submission
 DFO Project Manager
 project number 723438 no. du projet



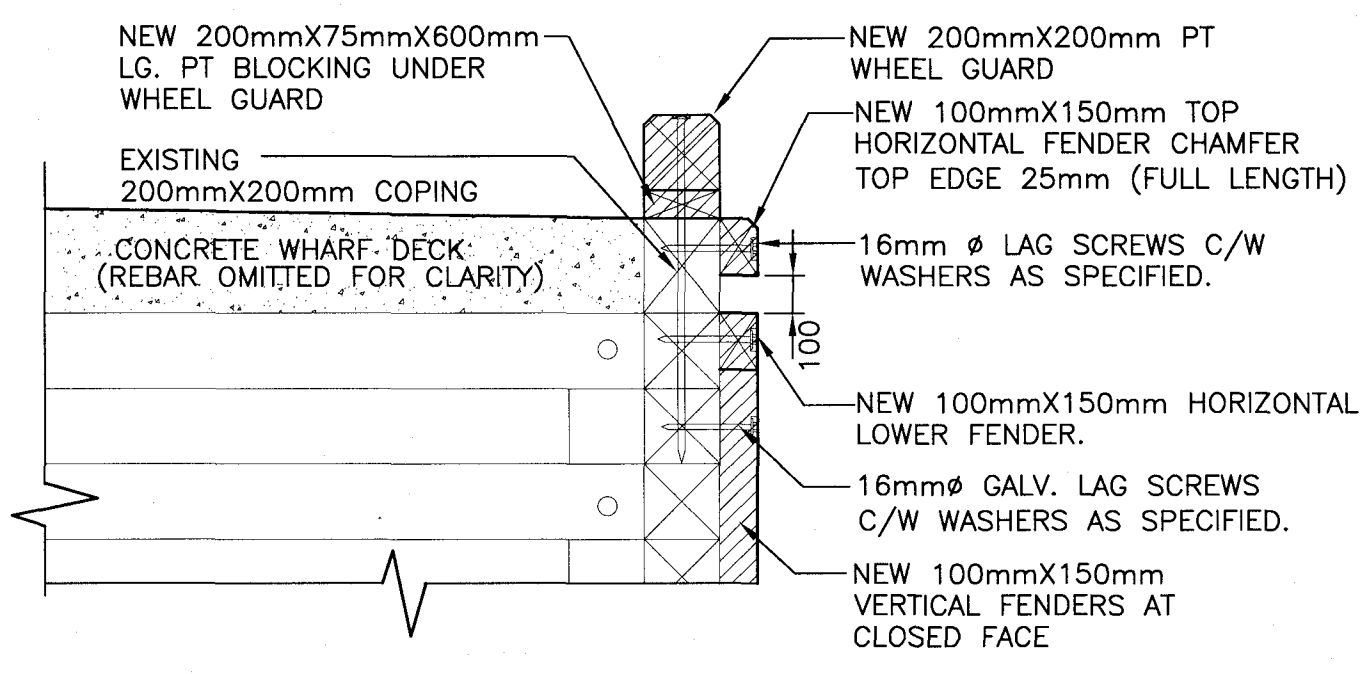
UPLAND AREA SECTION DETAIL (7/11)

SCALE: 1:20
0mm 500mm 1000mm 1500mm 2000mm 2500mm



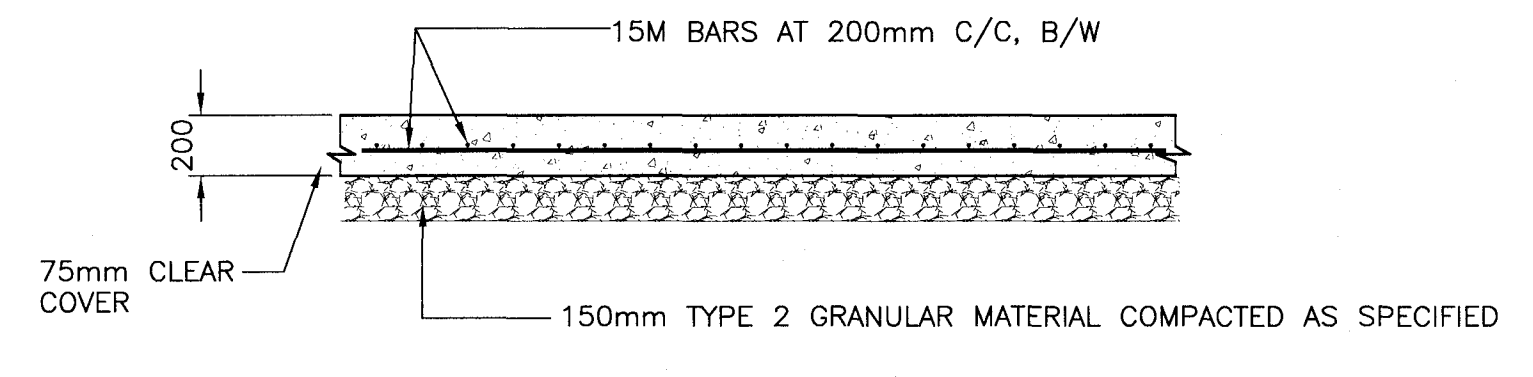
SECTION (8/11)

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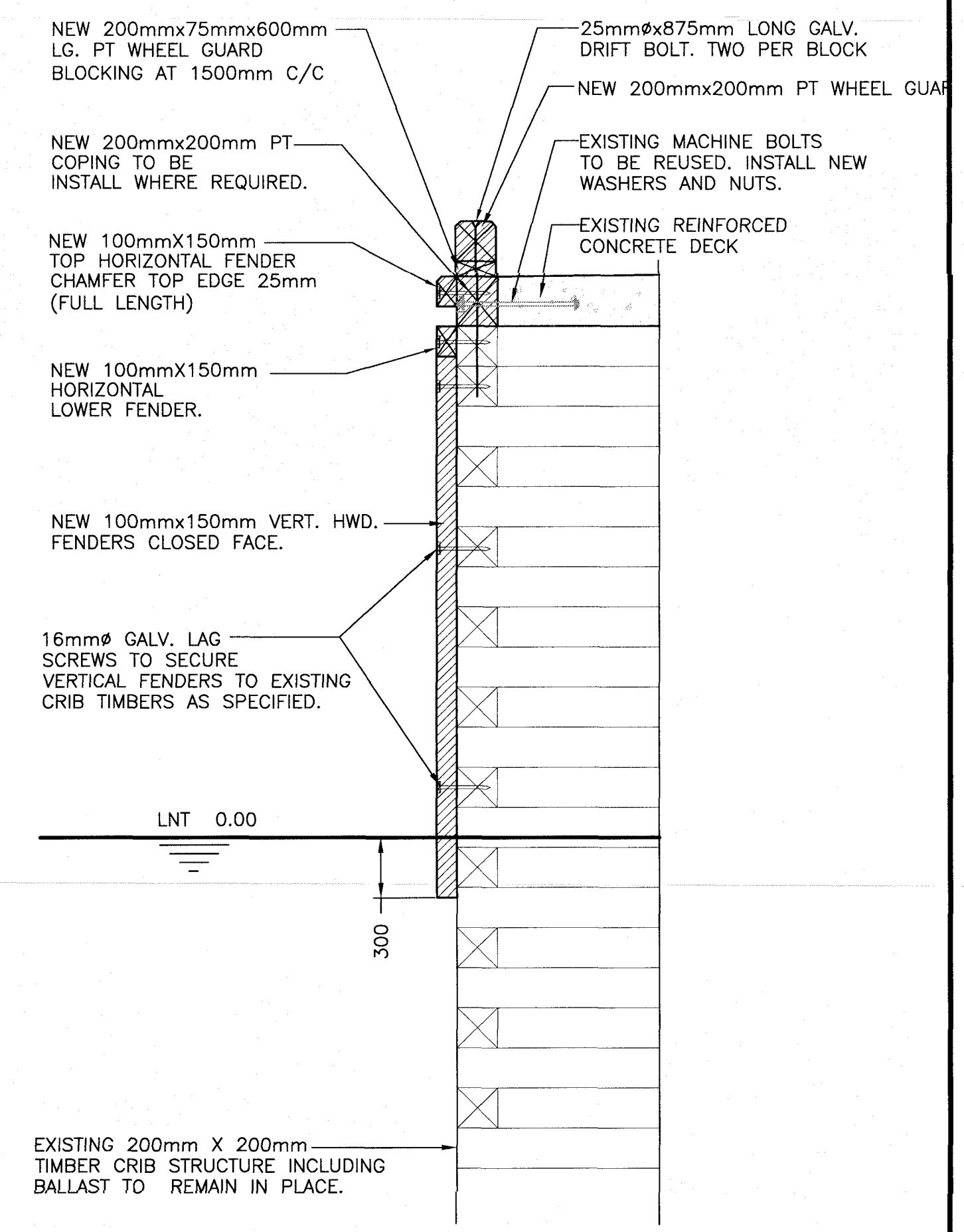
SECTION (9/11)

SCALE: 1:20
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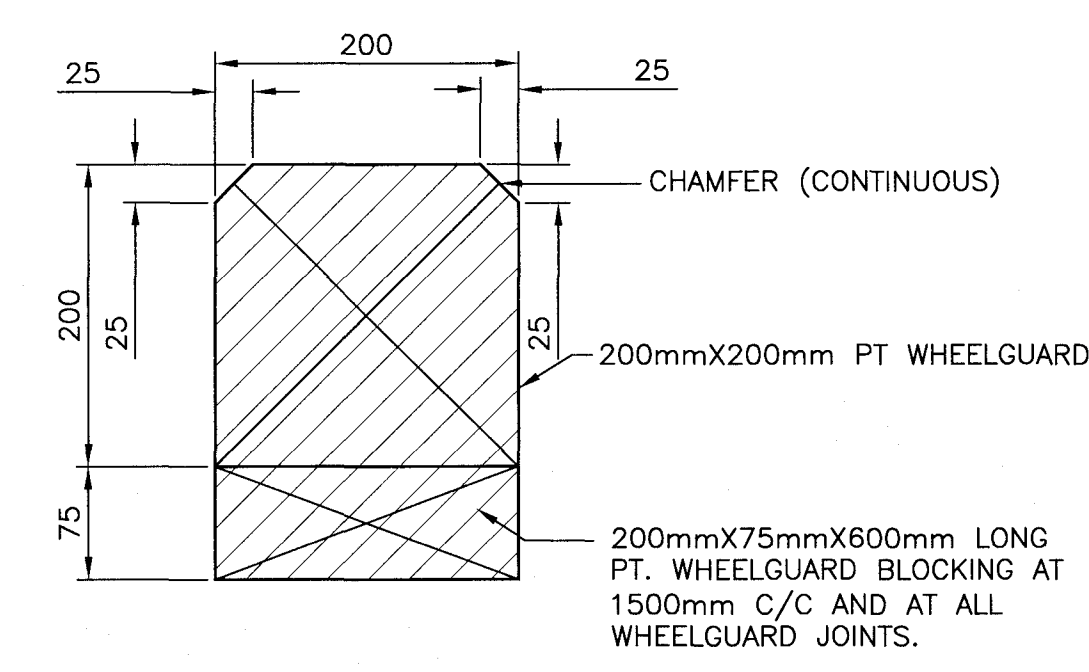
CONCRETE SLAB ON GRADE REINFORCING DETAIL (28/7/11)

SCALE: 1:25
0mm 500mm 1000mm 1500mm 2000mm 2500mm



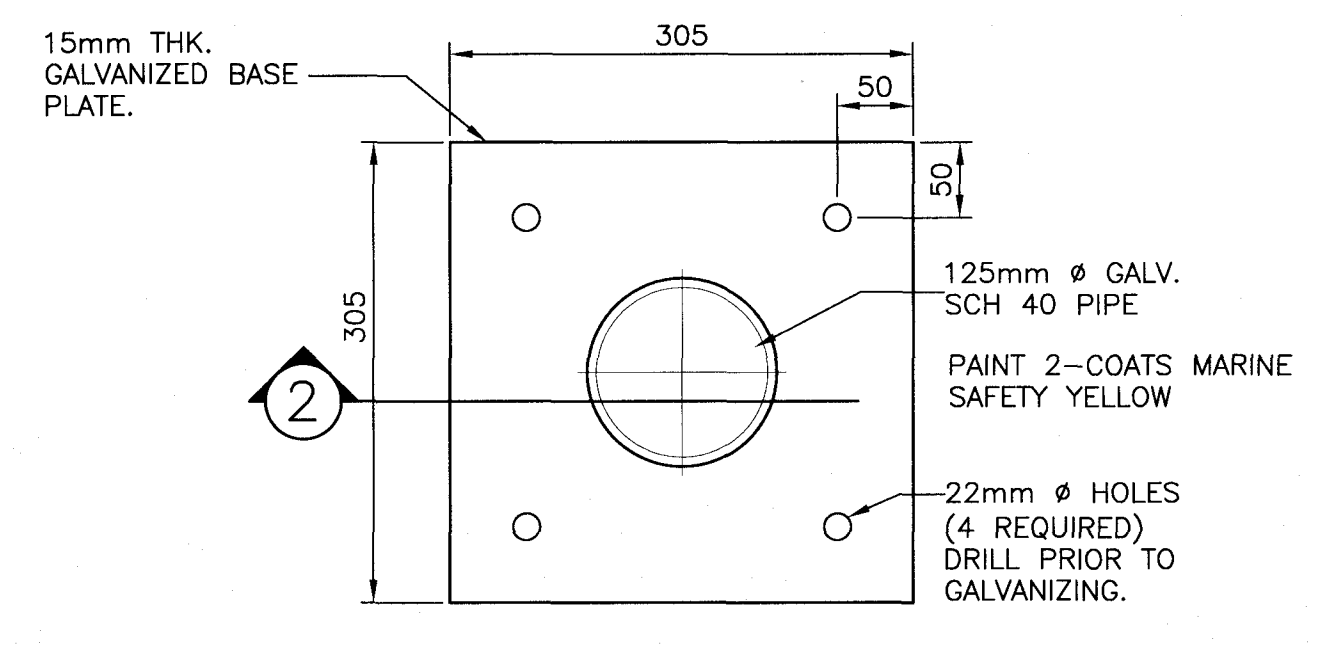
SECTION (10/5/11)

SCALE: 1:25
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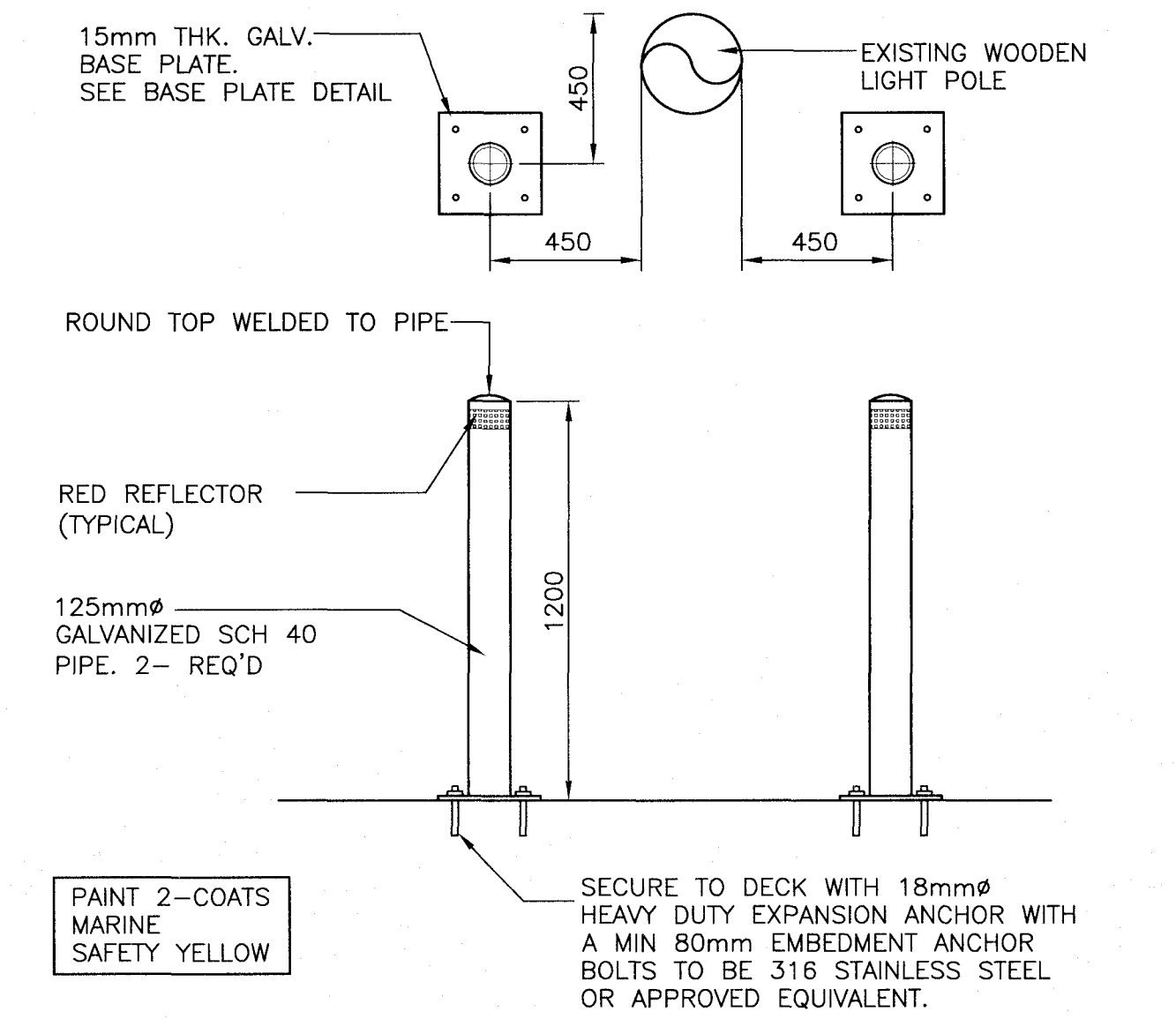
WHARF WHEELGUARD DETAIL

SCALE: 1:5
0mm 100mm 200mm 300mm 400mm 500mm



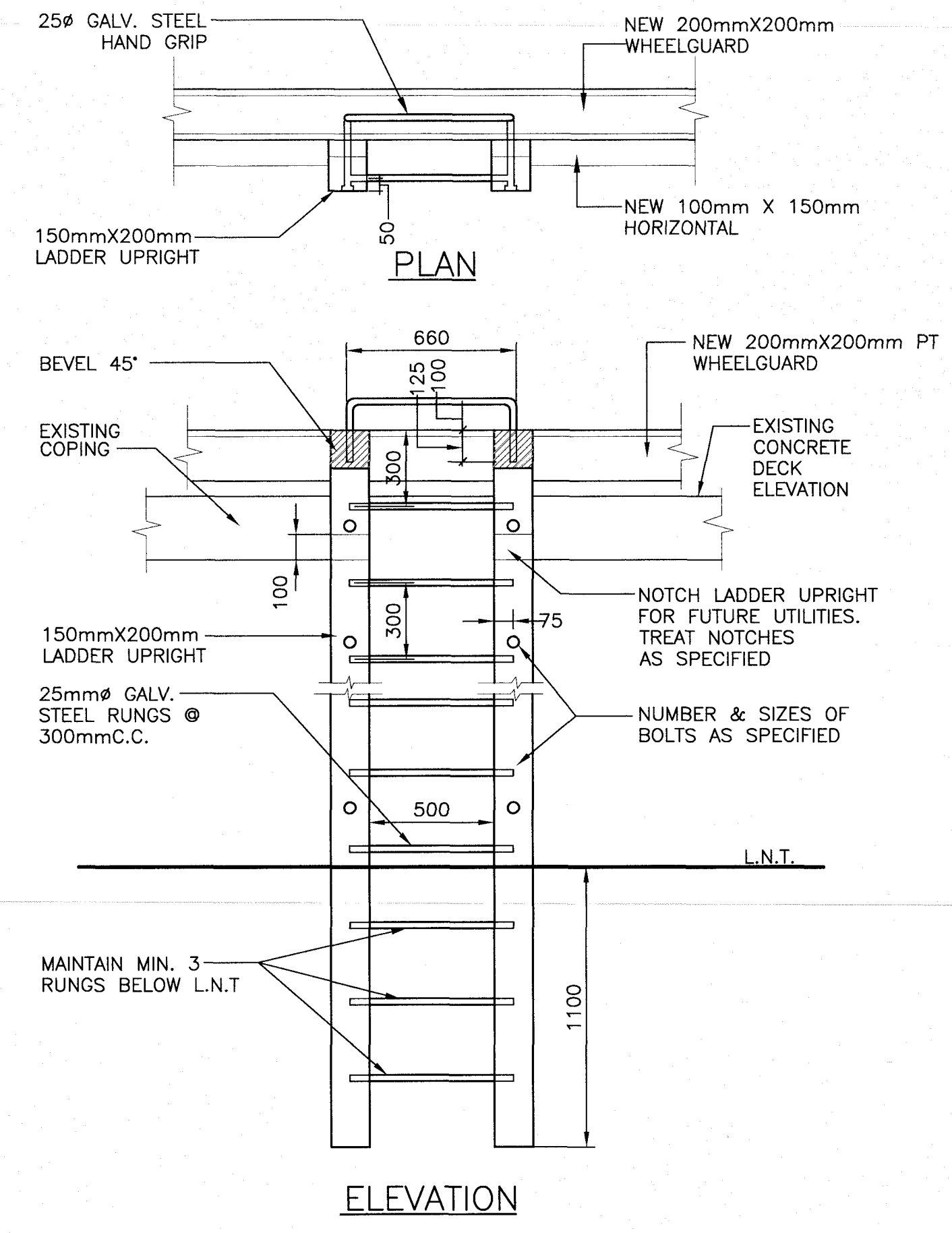
BOLLARD BASE PLATE DETAIL

SCALE: 1:5
0mm 100mm 200mm 300mm 400mm 500mm



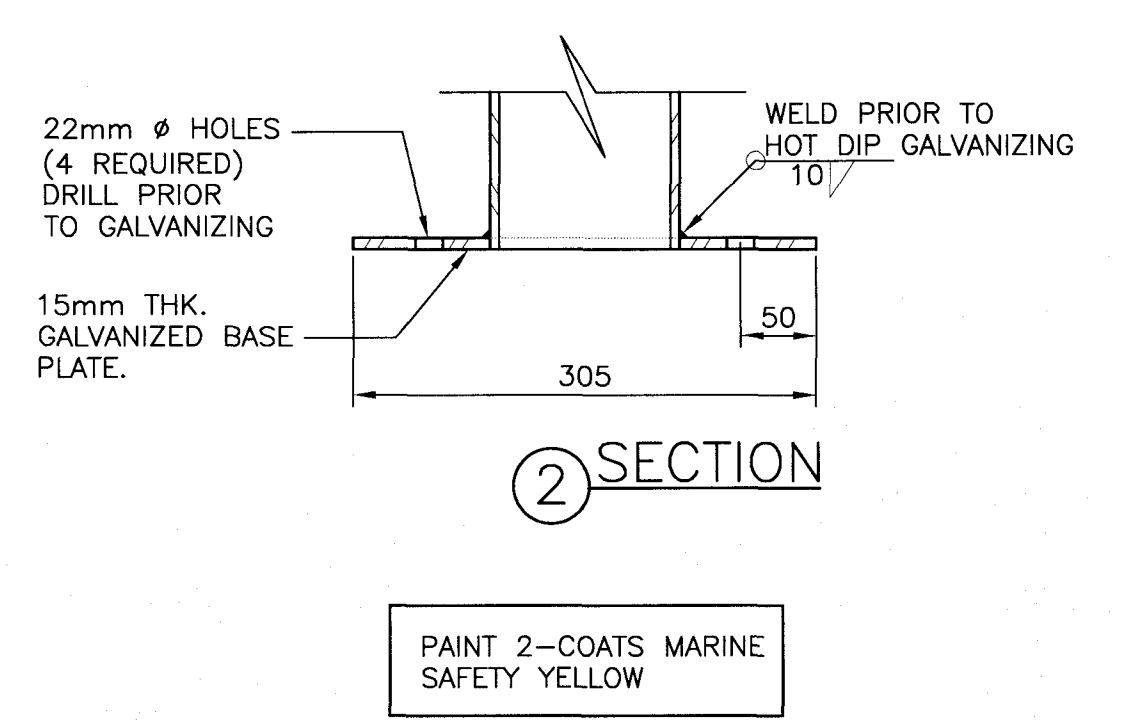
NEW BOLLARD DETAIL

SCALE: 1:20
0mm 500mm 1000mm 1500mm 2000mm 2500mm



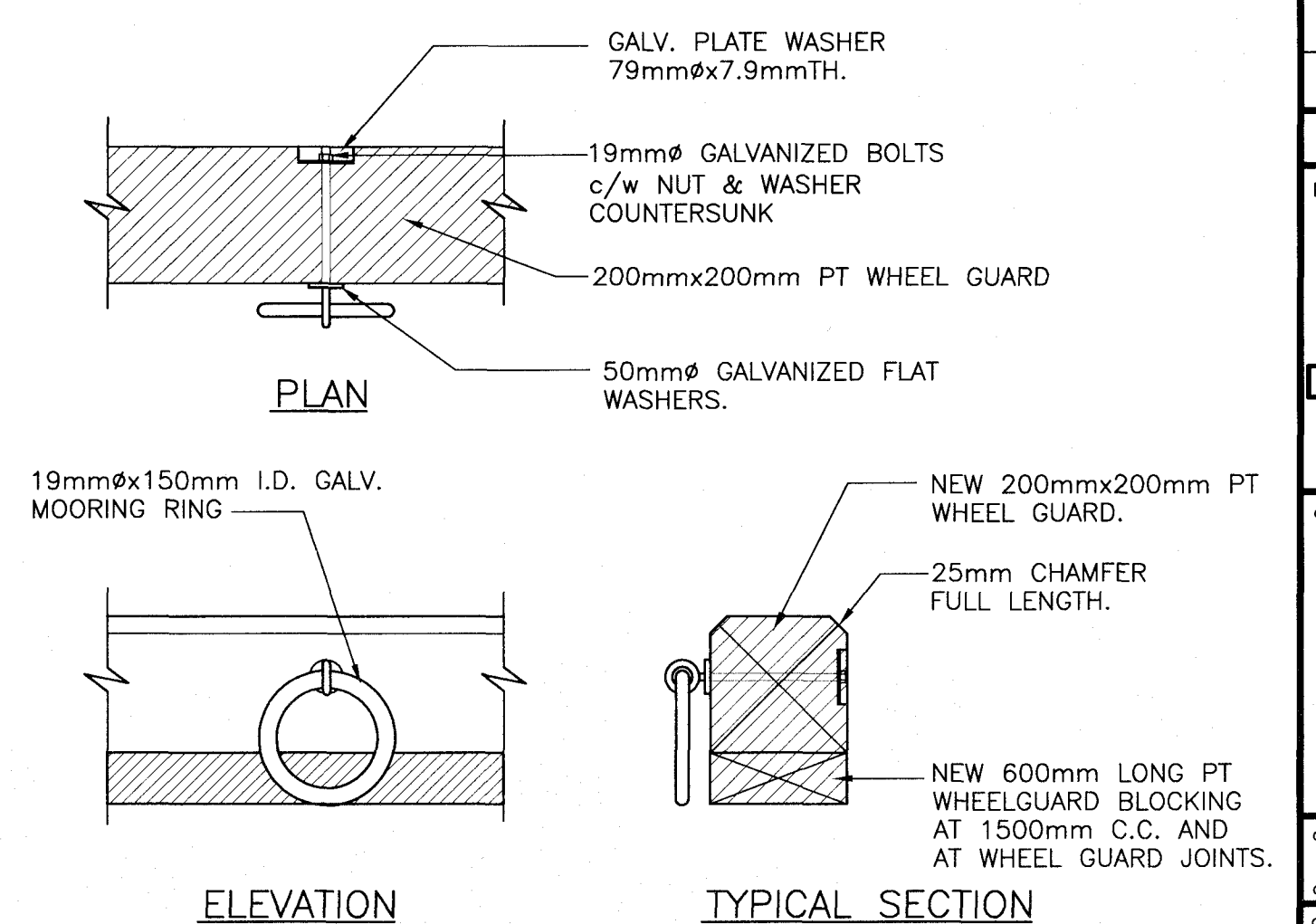
LADDER DETAIL

SCALE: 1:20
0mm 500mm 1000mm 1500mm 2000mm 2500mm



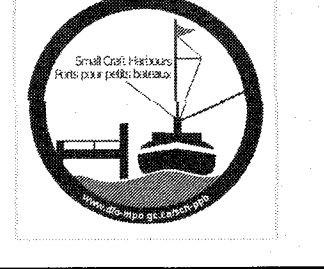
SECTION (2)

SCALE: 1:5
0mm 100mm 200mm 300mm 400mm 500mm

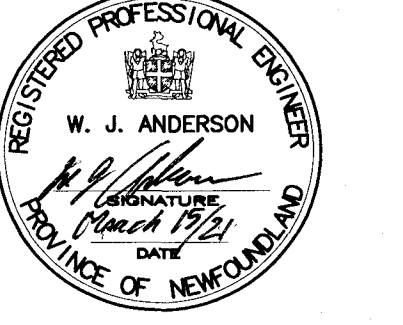


MOORING RING DETAIL

SCALE: 1:10
0mm 100 200 300 400 500 600 700 800 900 1000mm



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PERMIT HOLDER
ANDERSON ENGINEERING CONSULTANTS LTD.
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LAUNCHWAY
SLIPWAY AND
WHARF REPAIRS
DANIEL'S HARBOUR, NL

MISC. SECTIONS
AND DETAILS

designed	W.J. ANDERSON	conco
date	MARCH 2021	
drawn	R.S.H	designe
date	MARCH 2021	
approved		approve
date		
tender		source
DFD Project Manager	<i>Paul Curran</i>	
project number	723438	no. du projet
drawing no.		no. du dessin