

N 5 342 350

N 5 342 300

N 5 342 250

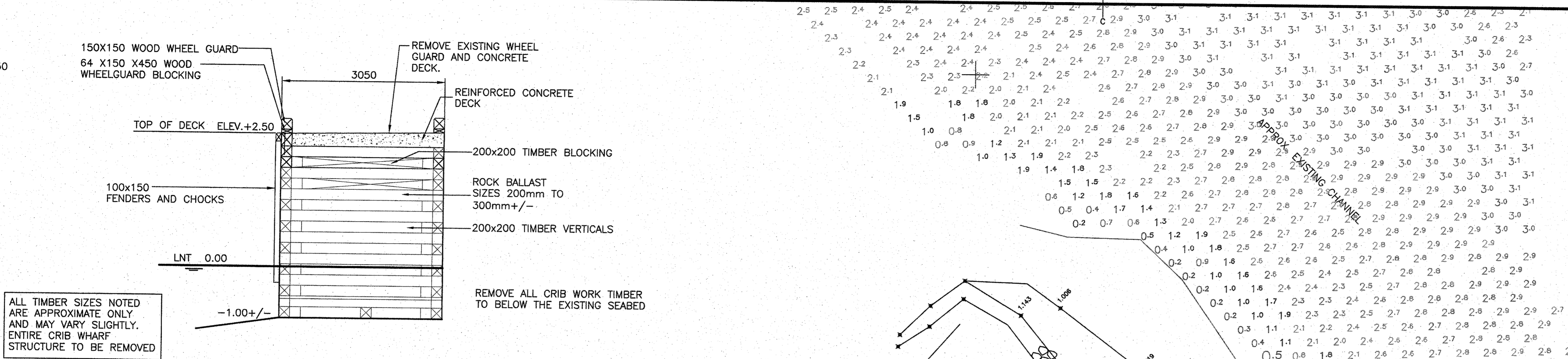
N 5 342 200

E 361 500

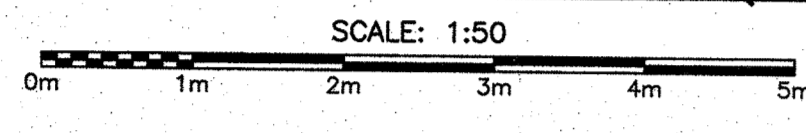
E 361 550

E 361 600

E 361 700



**EXISTING WHARF SECTION (TYPICAL)**

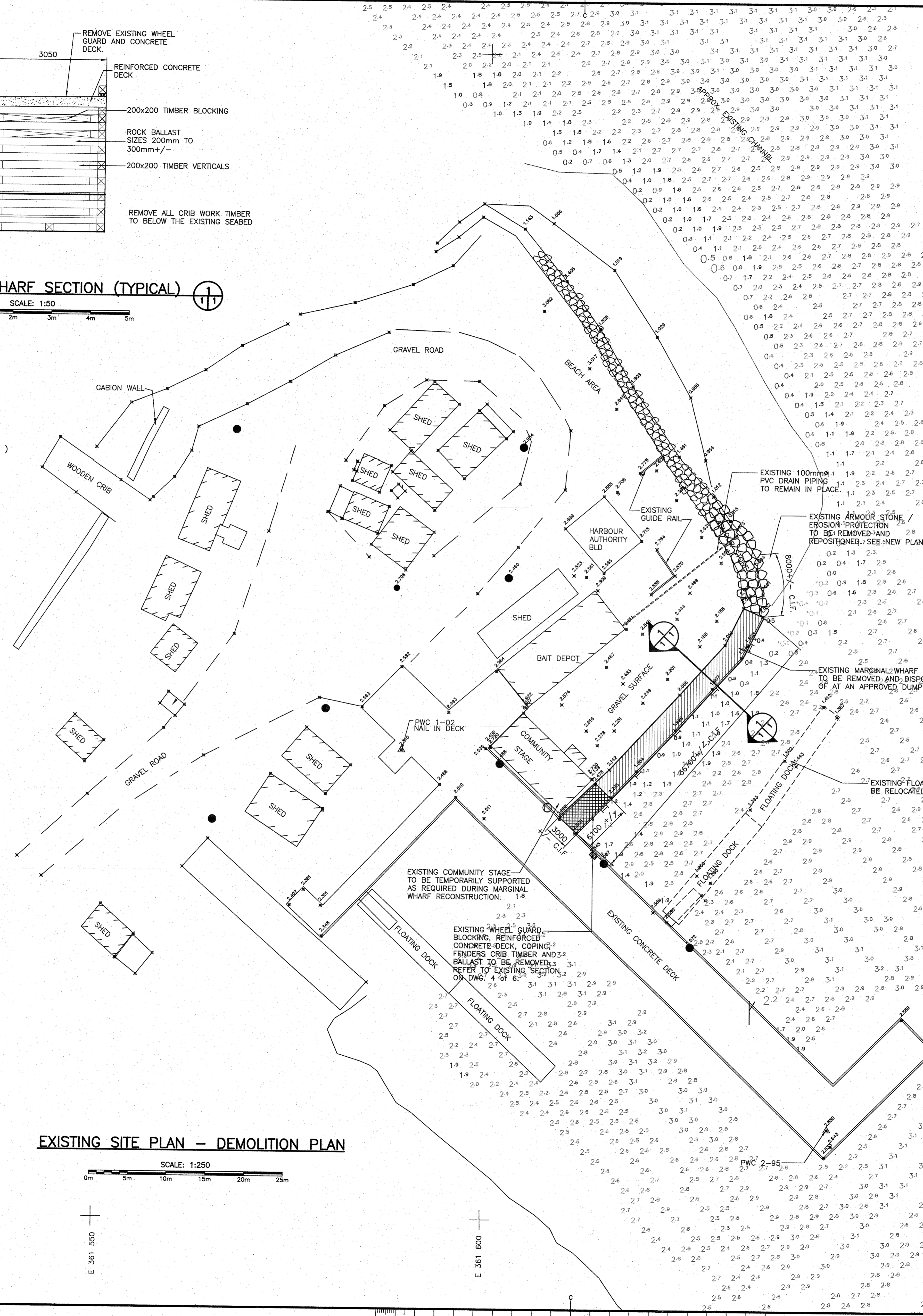


**LEGEND:**

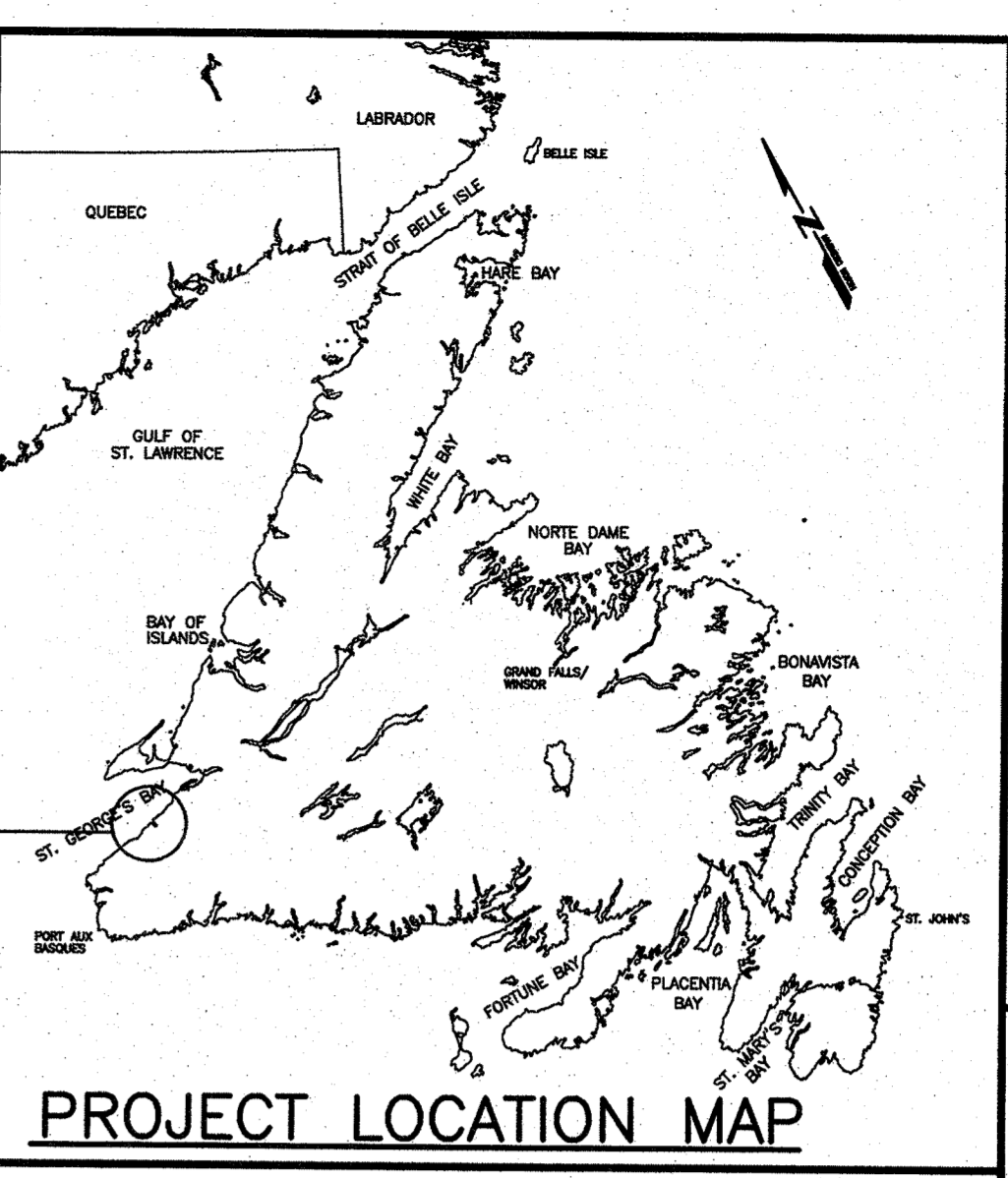
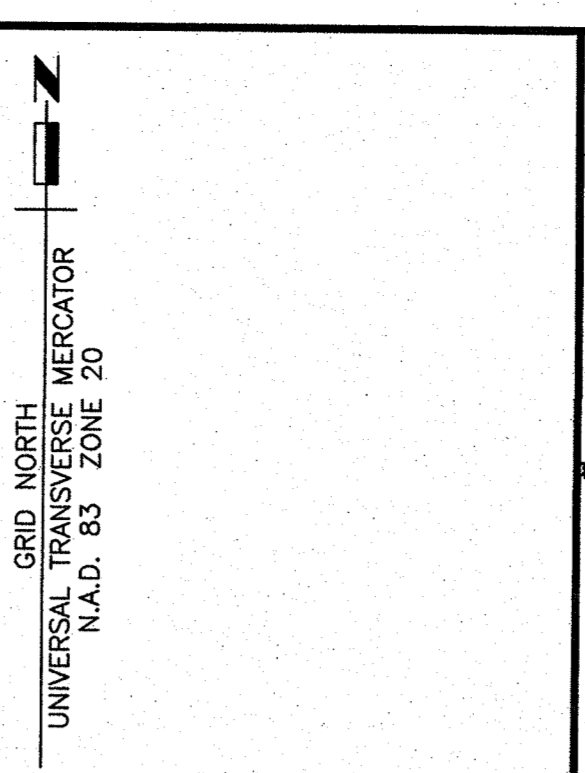
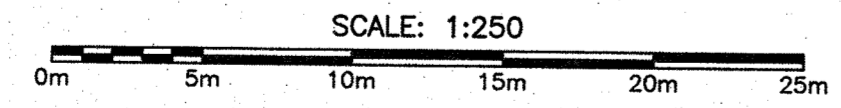
- AREA OF EXISTING CRIB MARGINAL WHARF TO REMAIN. (PARTIAL DEMOLITION REQUIRED)
- AREA OF EXISTING CRIB MARGINAL WHARF TO BE DEMOLISHED AND REMOVED

**SYMBOLS**

- EXISTING GRADE
- ANCHOR BLOCK
- BOLLARD
- BOREHOLE
- CATCH BASIN
- CLEAT
- CULVERT
- DREDGE CONTROL
- ELECTRICAL OUTLET
- FIRE HYDRANT
- FIRST AID
- HORIZONTAL CONTROL
- INVERT PIPE
- JIB CRANE
- TREE
- UTILITY POLE
- VERTICAL CONTROL
- LADDER
- LIFE RING
- LIGHT STANDARD
- MANHOLE
- MARSH
- MAST/TOWER
- NAVIGATION LIGHT
- OBSERVED BUOY
- OBSERVED SPAR BUOY
- RANGE LIGHT
- SAFETY POST
- SEWER OUTFLOW PIPE
- SIGN
- TELEPHONE
- TELEPHONE POLE
- TIDE GAUGE/STAFF
- WATER TAP/OUTLET
- WATER VALVE
- WATER WELL



**EXISTING SITE PLAN - DEMOLITION PLAN**



**PROJECT LOCATION MAP**

**GENERAL NOTES:**

1. ALL DIMENSIONS IN MILLIMETERS.
2. ALL SOUNDINGS & ELEVATIONS IN METERS.
3. CONTRACTOR TO VERIFY ALL DIMENSIONS AND ALL EXISTING SITE CONDITIONS IN THE FIELD. ALL ERRORS AND UNSATISFACTORY CONDITIONS TO BE REPORTED TO THE ENGINEER.
4. THE CONTRACTOR SHALL BE REQUIRED TO VISIT THE SITE AND TO BECOME FAMILIAR WITH THE EXISTING CONDITIONS PRIOR TO TENDERING THIS PROJECT. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO INFORM THE ENGINEER IN WRITING OF ANY DISCREPANCIES BETWEEN EXISTING CONDITIONS AND THE PROJECT DRAWINGS PRIOR TO TENDERING THE PROJECT.

**NOTES**

SURVEY PARTY CHIEF RICHARD HEALEY  
 SURVEY VESSEL ALUMINUM BOAT  
 SURVEY DATE(S) OCTOBER 27, 2010

SOUNDER TYPE: SINGLE TRANSDUCER  
 SOUNDER SETTING MIN/INST VEL. OF SOUND 1500 m/s  
 DEPTH GATE USED N/A FREQ. OF TRANS. 200 kHz

POSITIONING SYSTEM USED TRIMBLE 5700 GPS  
 LAND SURVEY POSITION BY TRIMBLE 5700 GPS  
 DATA TAPE/DISC(S) USED  
 CAD DRAWING FILE(S)

TIDAL REDUCTION SCHEME

OFFICE PROCESSOR EDDIE BEARNS  
 DATE OF PROCESSING NOVEMBER 2010

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
8404185	362505.222	5342525.004			PROVINCIAL BRASS PLAQUE SET IN BEDROCK
8404186	361585.594	5341444.039			PROVINCIAL BRASS PLAQUE SET IN BEDROCK
PWC 1-87	361489.197	5342155.351			I.P. SET IN CONCRETE
PWC 2-95	361644.379	5342211.957	+2.615 m		BOLT SET IN CONCRETE DECK
PWC 3-95	361585.283	5342277.088	+2.419 m		I.P. DRIVEN IN GRAVEL
PWC 1-02	361587.647	5342259.390	+2.510 m		NAIL IN CONCRETE DECK
PWC 5-95	362088.724	5341988.506	+3.525 m		SPIKE DRIVEN IN RETAINING WALL
BM 3-87	362088.724	5341988.506	+3.248 m		GEODETIC BRASS PLAQUE IN CONCRETE
76865					

ALL SOUNDINGS & ELEVATIONS IN METRES.

ALL SOUNDINGS & ELEVATIONS REFERRED TO BM 3-87 ELEV. +3.525 m (SPIKE DRIVEN IN WOODEN RETAINING WALL) ESTABLISHED BY 3-WIRE LEVELLING FROM GEODETIC BM 76865 ELEV. +3.528 m LOCATED AT ST. DAVID'S, N.L. ON MAY 09/1987 BY PWC SURVEY CREW. NOTE: USED 0.97 m AS THE DIFFERENCE BETWEEN GEODETIC & CHS DATUMS.

SOUNDINGS TAKEN USING NAVISOUND 210 ECHO SOUNDER AND POSITIONED BY TRIMBLE DIFFERENTIAL GPS POSITIONING SYSTEM ON OCTOBER 27, 2010.

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 SHEETS BEFORE BEING CORRECTED FOR TIDE & BAR CHECK CORRECTION. SOUNDINGS WERE REDUCED USING HYPACK MAX VER. 4.3.

ALL FIELD NOTES ARE IN CRABBE'S RIVER BOOK #507A.

Public Works and Government Services Canada / Travaux Publics et Services gouvernementaux Canada

Small Craft Harbours Ports Pour Petits Bateaux

PROVINCE OF NEWFOUNDLAND PERMIT HOLDER: The Permit Allows ANDERSON ENGINEERING CONSULTANTS LTD. To practice Professional Engineering in Newfoundland and Labrador. Permit No. as Issued by APOR/LSD022... valid to the year 2015.

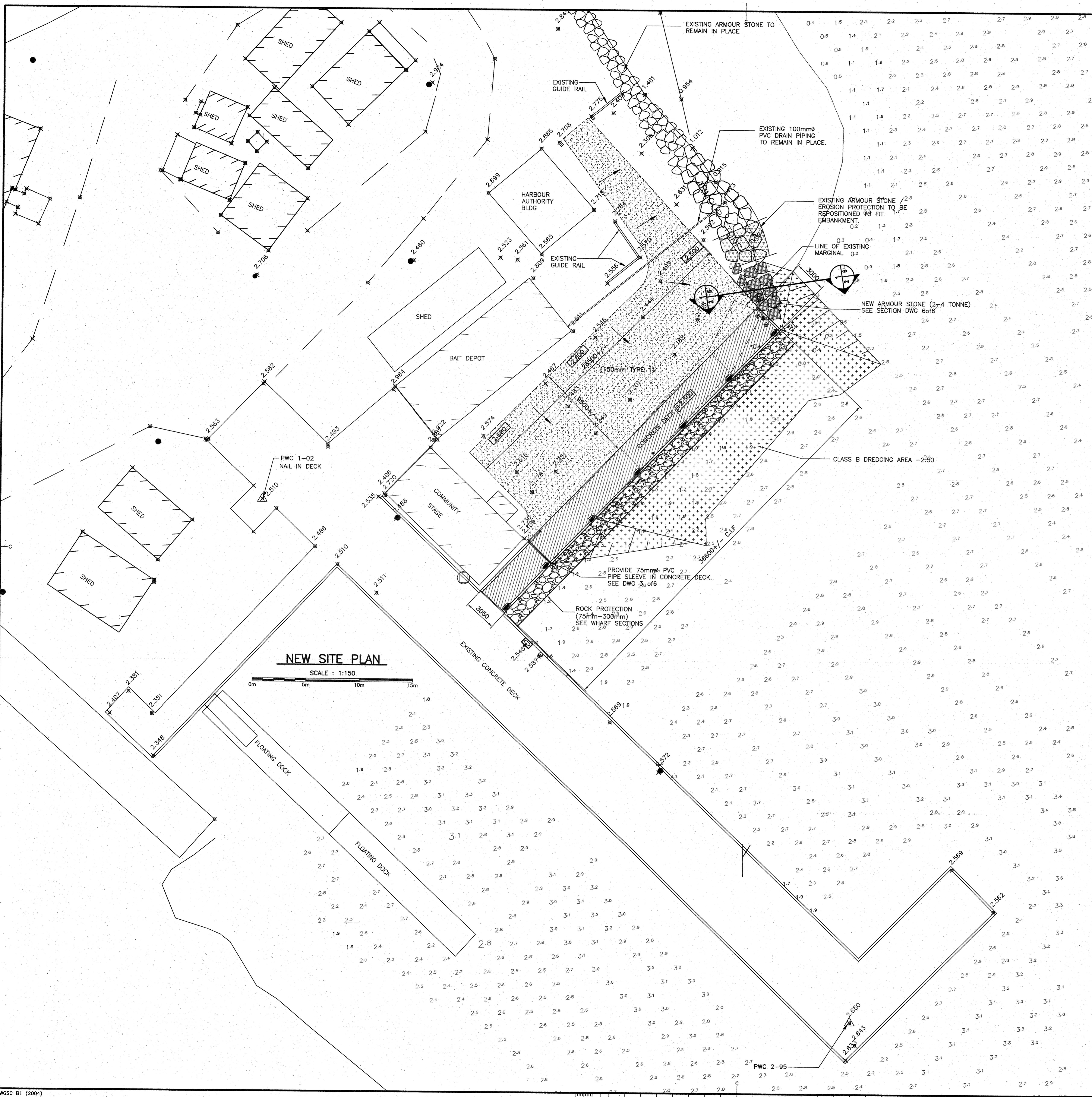
A	ISSUED FOR TENDER	20/01/15
---	-------------------	----------

project: MARGINAL WHARF RECONSTRUCTION ST. DAVID'S, (CRABBE'S RIVER) NL

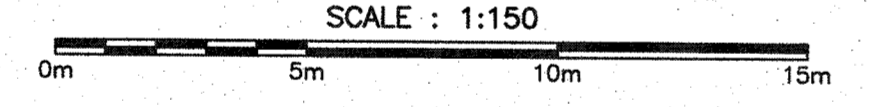
drawing: PROJECT LOCATION MAP, EXISTING SITE PLAN - DEMOLITION PLAN AND GENERAL NOTES

designed: W.J.A. conçu  
 date: JAN. 2015  
 drawn: R.S.H. dessiné  
 date: JAN. 2015  
 approved: approuvé  
 date:  
 Tender: Soumission  
 PWSC Project Manager: Administrateur de projets TPSGC  
 project number: 720405 no. du projet  
 drawing no.: 1 of 6 no. du dessin

E-DRM/GDD-E



**NEW SITE PLAN**  
SCALE : 1:150



**LEGEND**

- LADDER
- MOORING RINGS
- TYPE "B1" CLEAT & BLOCK
- 0.00 EXISTING GRADE ELEVATION
- 0.00 FINISHED GRADE ELEVATION
- INDICATED LIGHTING POLE
- CONTROL JOINT
- ⊗ HYDRO POLE C/W BOLLARDS
- △ HORIZONTAL CONTROL
- LIFE RING
- INDICATES CONTROL POINT LOCATIONS
- ▨ INDICATES AREA OF NEW CONCRETE DECK
- ▤ INDICATES NEW DREDGING AREA -2.50
- ▥ INDICATES AREA OF NEW UPLAND FILL AREA

GPS CO-ORDINATES FOR UPLAND FILL AREA CAN BE PROVIDED BY DEPARTMENTAL REPRESENTATIVE UPON REQUEST FROM CONTRACTOR.

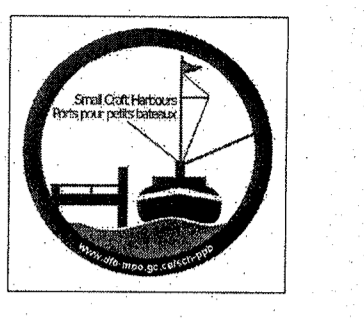
HORIZONTAL CONTROL POINTS		
MARK	EASTING	NORTHING
PWC 1-02	361589.368	5342260.380
(A)	361637.494	5342278.445
(B)	361635.331	5342278.526

GPS CO-ORDINATES FOR DREDGING CAN BE PROVIDED BY DEPARTMENTAL REPRESENTATIVE UPON REQUEST FROM CONTRACTOR.

**NOTES:**

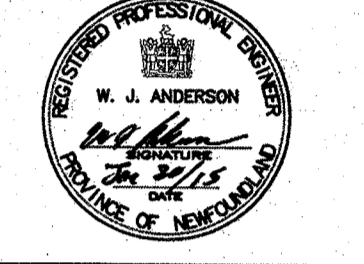
1. ALL DIMENSIONS IN MILLIMETERS.
2. ALL SOUNDINGS & ELEVATIONS IN METRES.
3. MINIMUM CONCRETE STRENGTH 35 MPa @28 DAYS
4. REINFORCING STEEL YIELD STRENGTH 400 MPa
5. REINFORCING STEEL SPLICES SHALL CONFORM TO A23.3, LATEST EDITION. REINFORCING STEEL TO BE LAPPED 900mm FOR LONGITUDINAL BARS. REINFORCING STEEL TO BE LAPPED 600mm FOR TRANSVERSE BARS
6. ALL REBAR TO HAVE MIN. COVER OF 75mm.
7. ALL MACHINE BOLTS TO BE 19mmØ (GALVANIZED)
8. ALL DRIFT BOLTS TO BE 19mmØ (GALVANIZED)
9. ALL LAG SCREWS TO BE GALVANIZED AND SIZED AS PER FOLLOWING:  
LADDER UPRIGHTS - 19mmØ  
FENDERING - 16mmØ
10. CONTRACTOR TO VERIFY ALL FIELD MEASUREMENTS FOR REQUIRED TIMBER PRIOR TO ORDERING.
11. ALL TIMBER TO BE TREATED EXCEPT FOR HARDWOOD ITEMS.
12. DECK DESIGN LOAD:  
- MS-150 FOR NEW WHARF STRUCTURE DECK.
13. NEW CRIB WORK TO REST ON ROCK MATTRESS.
14. CONTRACTOR TO VERIFY ALL DIMENSION AND ALL EXISTING SITE CONDITIONS IN THE FIELD. ALL ERRORS AND UNSATISFACTORY CONDITIONS IF NOTICED TO BE REPORTED TO THE DEPARTMENTAL REPRESENTATIVE.
15. IF TREATED TIMBER (CREOSOTE AND/OR CCA) ARE PRESENT IN EXISTING STRUCTURE TO BE REMOVED, THE CONTRACTOR TO DETERMINE LOCATION OF APPROVED WASTE DISPOSAL SITE FOR DISPOSAL OF TREATED TIMBERS AND INCLUDE COST IN BID ACCORDINGLY.

GRID NORTH  
UNIVERSAL TRANSVERSE MERCATOR  
N.A.D. 83 ZONE 20



Small Craft Harbours Ports Pour Petits Bateaux

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 APORL30082  
which is valid for the year 2015.

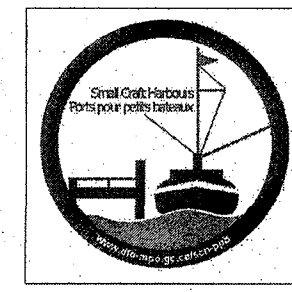


revisions	date
A	ISSUED FOR TENDER 20/01/15

**MARGINAL WHARF RECONSTRUCTION ST. DAVID'S, (CRABBE'S RIVER) NL**

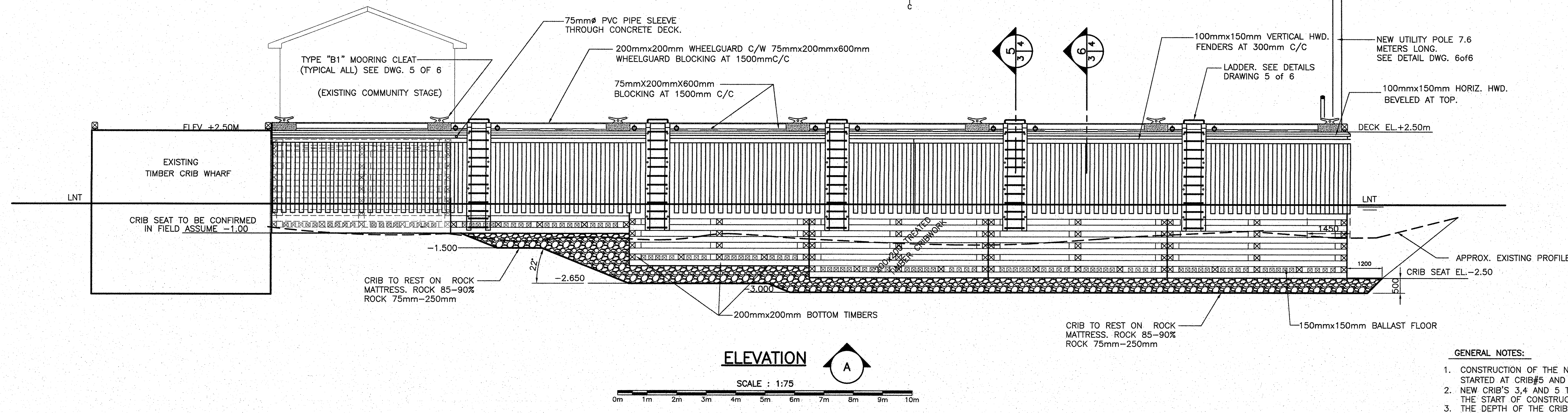
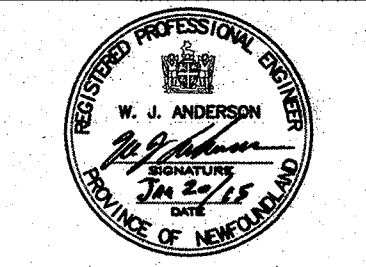
**NEW SITE PLAN AND DREDGING LIMITS**

designed	W.J.A.	conçu
date	JAN. 2015	
drawn	R.S.H.	dessiné
date	JAN. 2015	
approved		approuvé
date		
Tender	Paul Curran	Soumission
PWCSOC Project Manager	Administrateur de projets TPSCC	
project number	720405	no. du projet

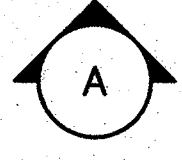


Small Craft Harbours Ports Pour Petits Bateaux

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 APEON\_2002\_2\_14  
which is valid for the year 2015

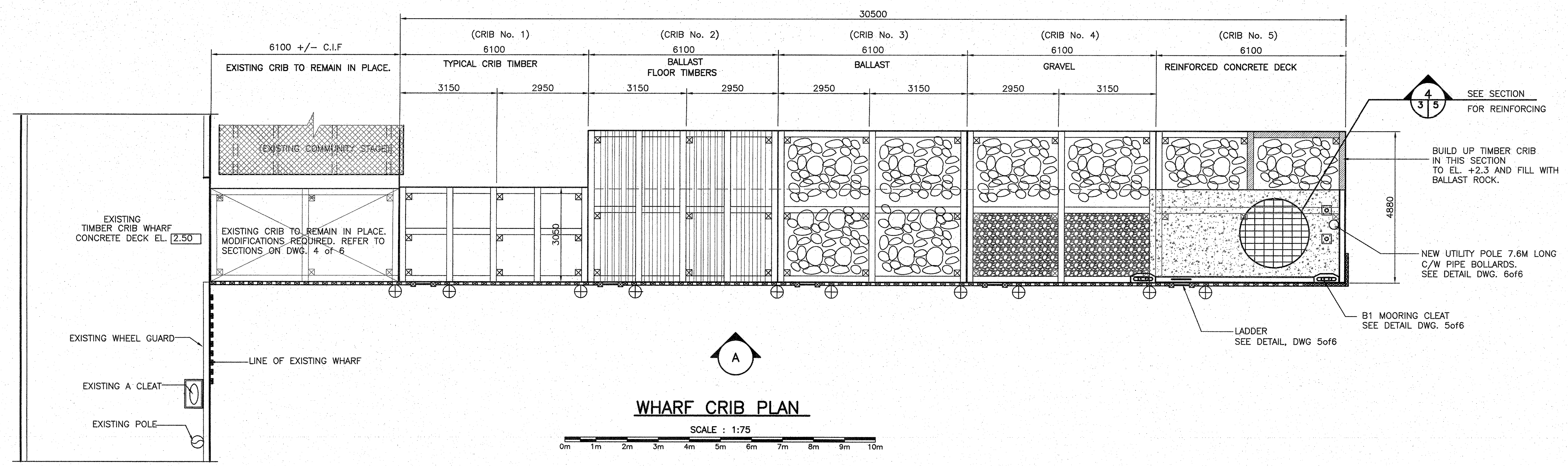


ELEVATION

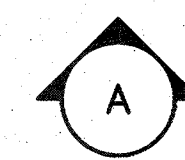


SCALE : 1:75

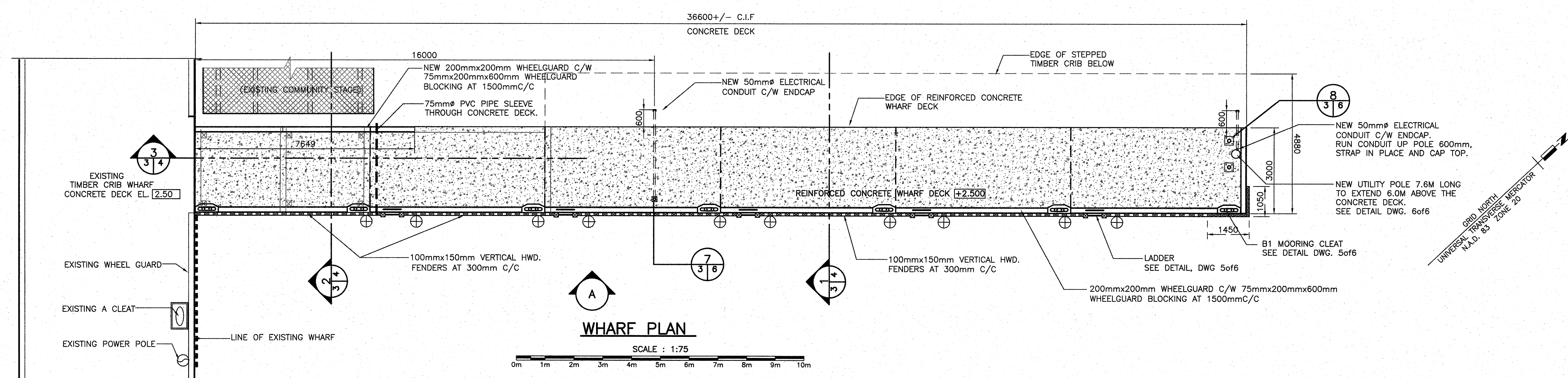
- GENERAL NOTES:
- CONSTRUCTION OF THE NEW MARGINAL WHARF TO BE STARTED AT CRIB#5 AND ADVANCED TO CRIB#1.
  - NEW CRIB'S 3,4 AND 5 TO BE INSTALLED PRIOR TO THE START OF CONSTRUCTION FOR CRIB NO.2.
  - THE DEPTH OF THE CRIB NO.2 TO BE AT EL. -2.14 +/- FIELD CONDITIONS WILL DICTATE THE CRIB SEAT DEPTH.
  - FOR CRIB NO.1 PROVIDE A ROCK MATTRESS TO ENSURE A LEVEL SURFACE BETWEEN THE EXISTING CRIB AND CRIB NO.2.



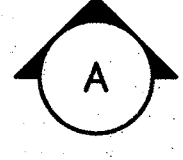
WHARF CRIB PLAN



SCALE : 1:75

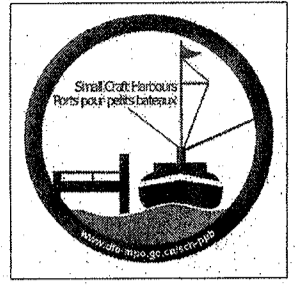


WHARF PLAN

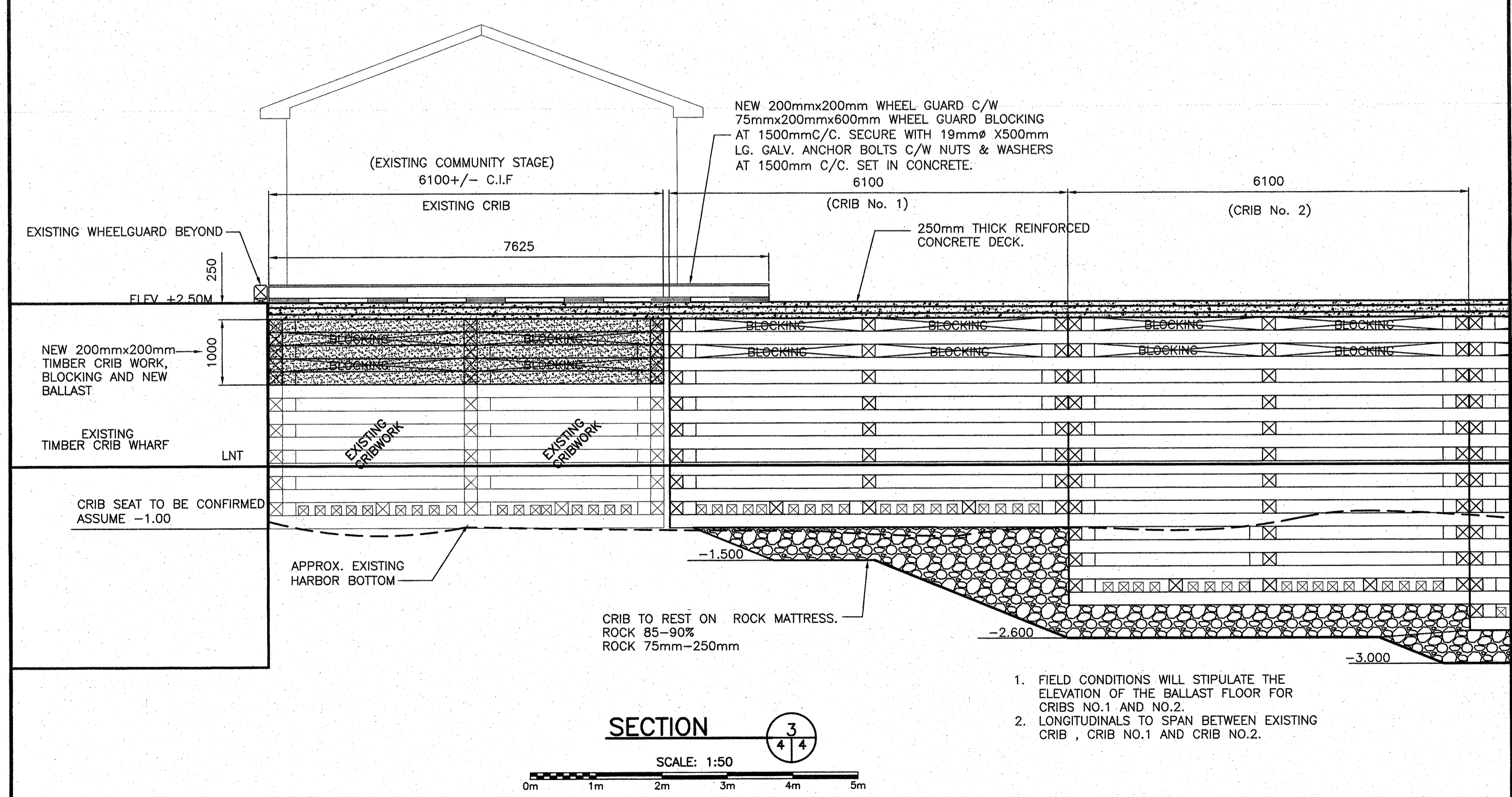
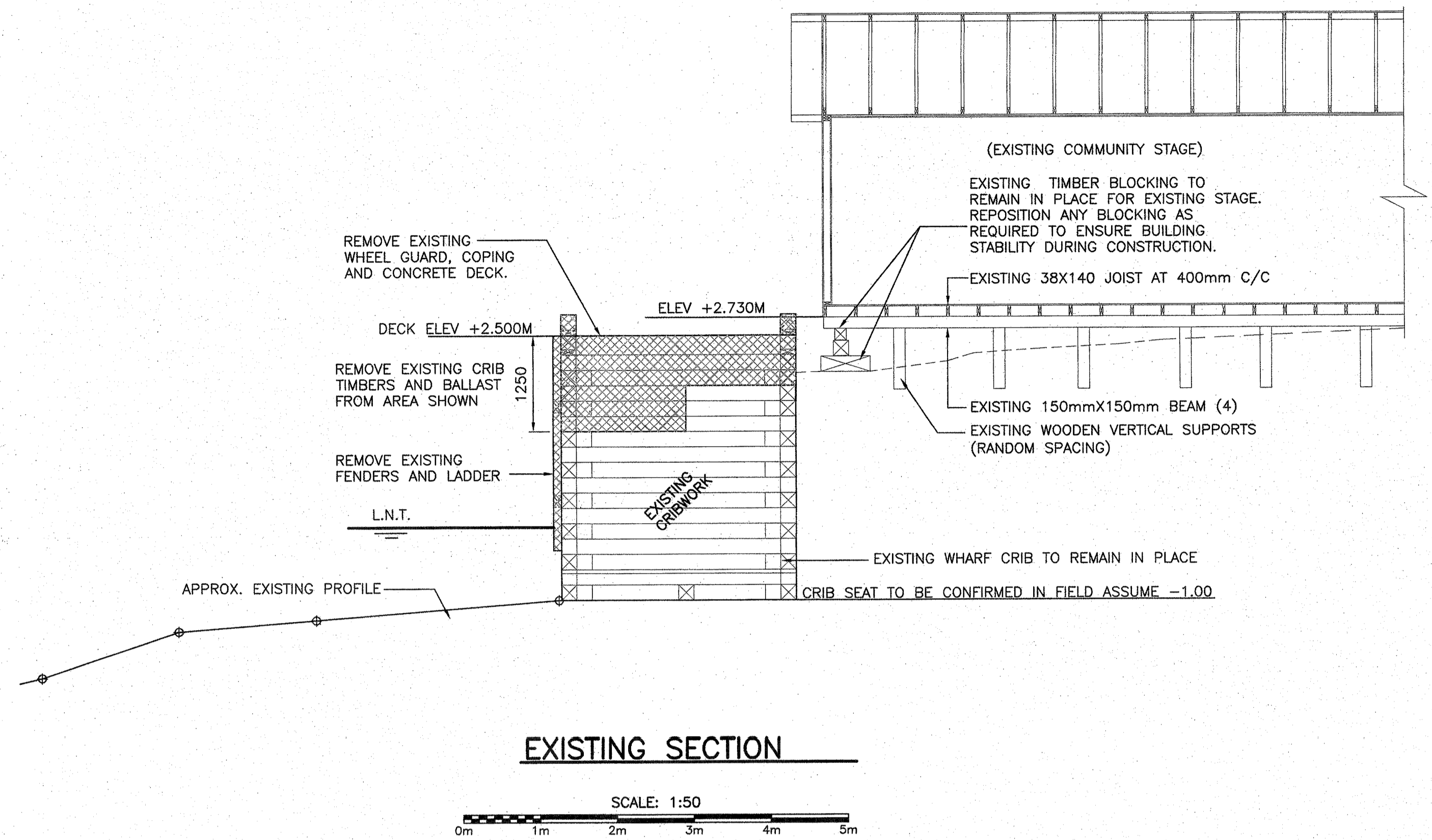
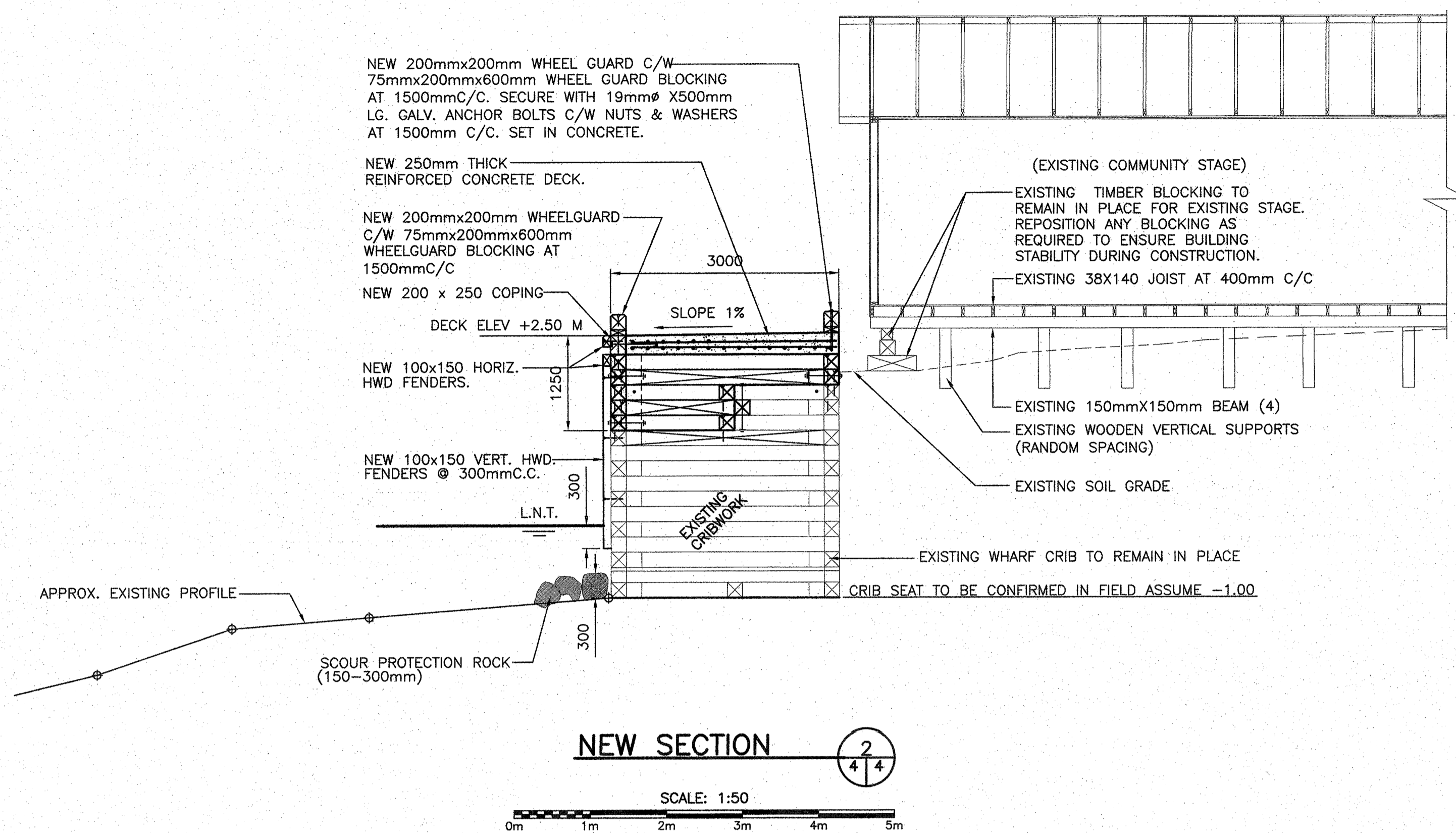
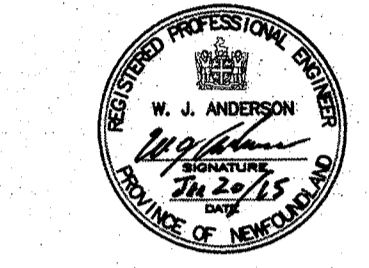
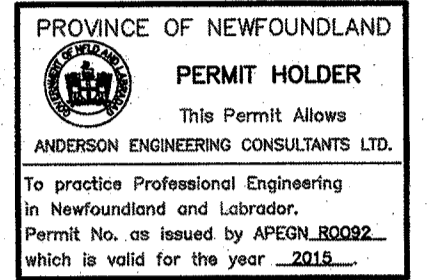


SCALE : 1:75

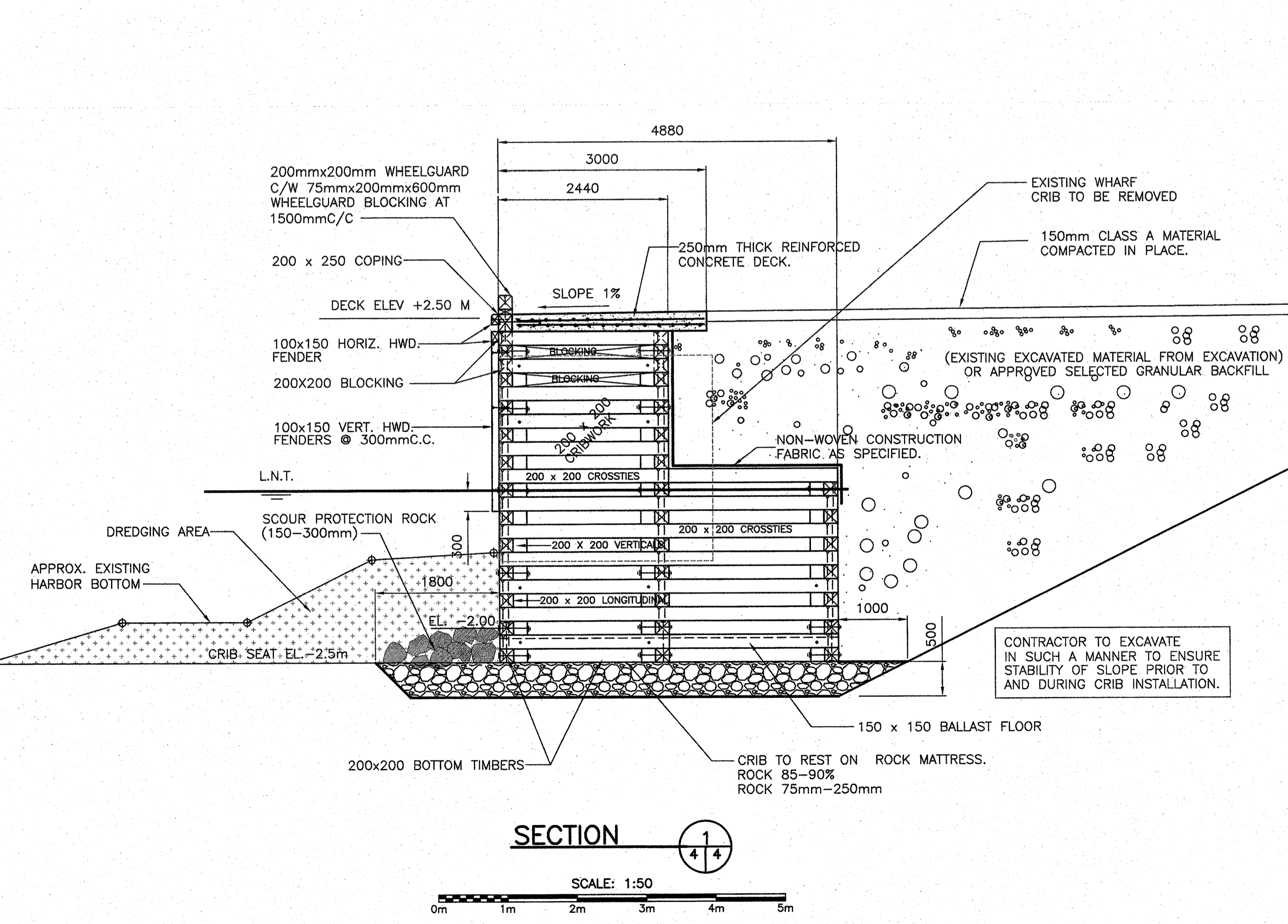
A	ISSUED FOR TENDER	20/01/15
revisions		date
project	MARGINAL WHARF RECONSTRUCTION ST. DAVID'S, (CRABBE'S RIVER) NL	
drawing	WHARF PLAN WHARF CRIB PLAN AND ELEVATION	
designed	W.J.A.	conçu
date	JAN. 2015	
drawn	R.S.H.	dessiné
date	JAN. 2015	
approved		approuvé
Tender	Paul Curran	
PWOSC Project Manager	Administrateur de projets TPSCC	
project number	720405	
drawing no.	3 of 6	



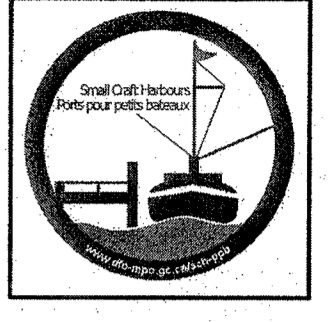
Small Craft Harbours Ports Pour Petits Bateaux



1. FIELD CONDITIONS WILL STIPULATE THE ELEVATION OF THE BALLAST FLOOR FOR CRIBS NO.1 AND NO.2.
2. LONGITUDINALS TO SPAN BETWEEN EXISTING CRIB , CRIB NO.1 AND CRIB NO.2.

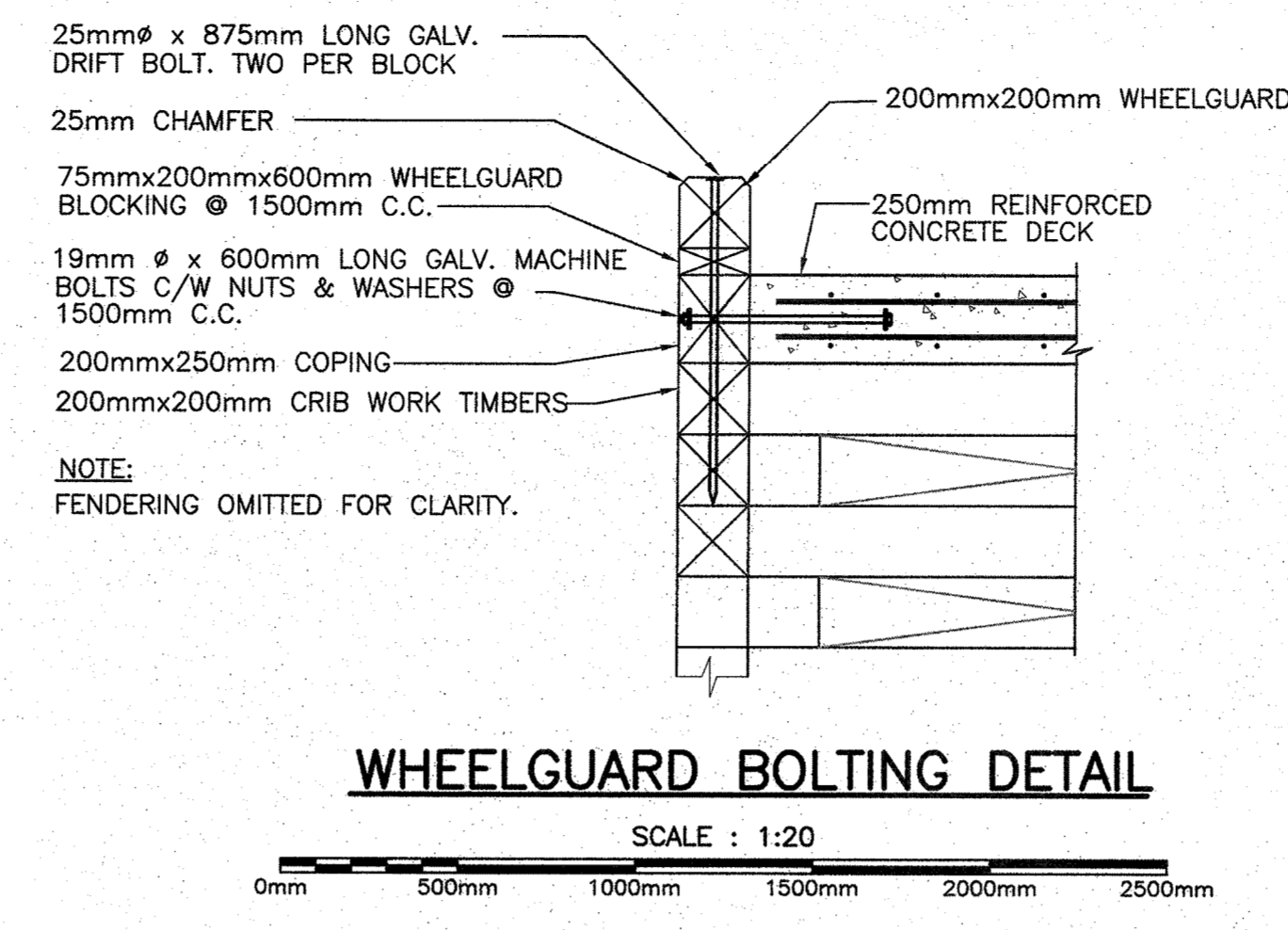
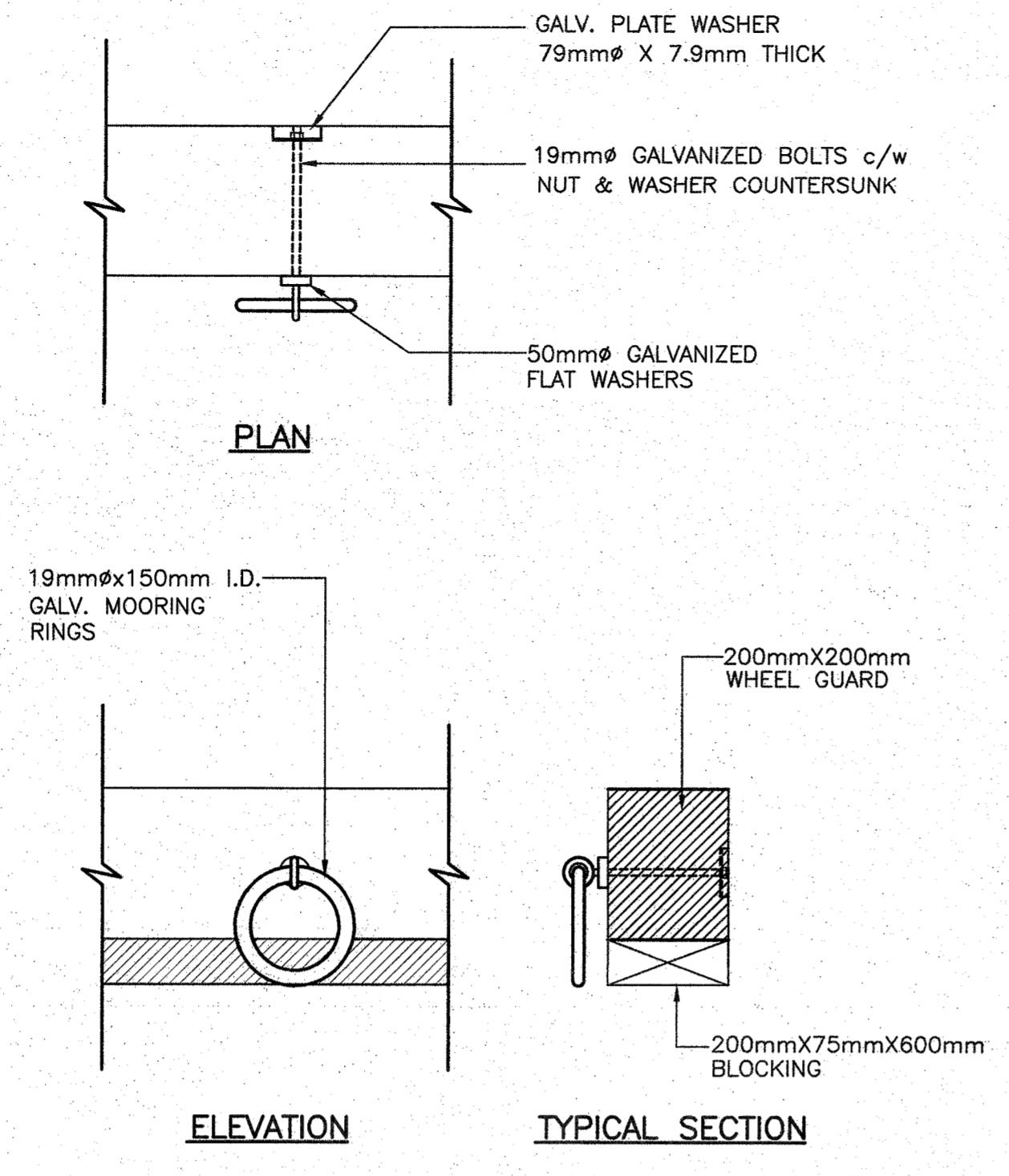
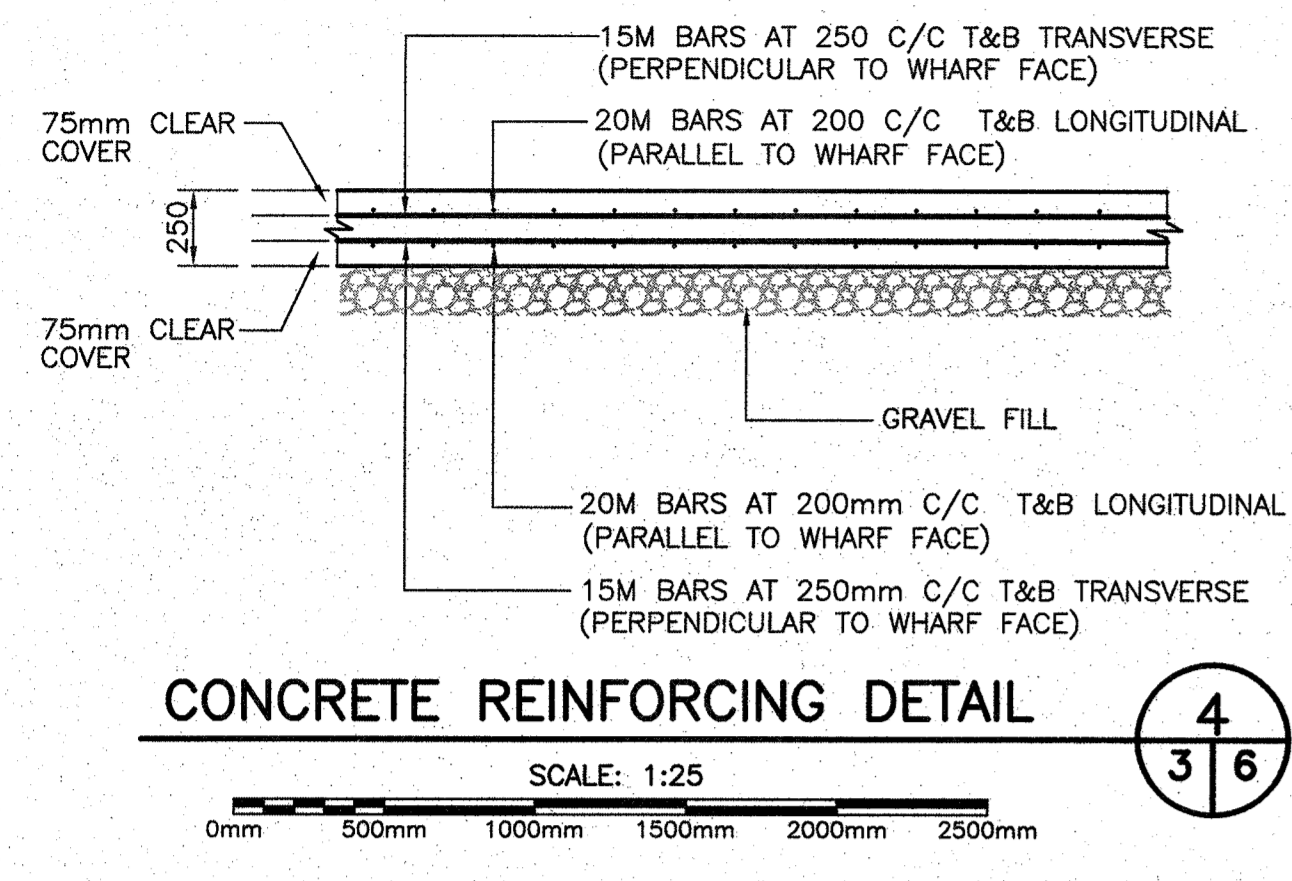
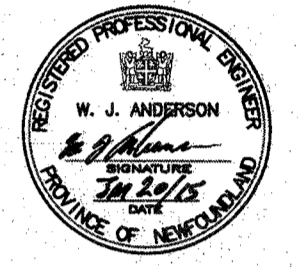


revisions	A	ISSUED FOR TENDER	20/01/15
project	MARGINAL WHARF RECONSTRUCTION ST. DAVID'S, (CRABBE'S RIVER) NL		
drawing	WHARF SECTIONS		
designed	W.J.A.	conçu	
date	JAN. 2015		
drawn	R.S.H.	dessiné	
date	JAN. 2014		
approved		approuvé	
date			
Tender	Paul Curran	Soumission	
PWSSC Project Manager	Administrateur de projets TPSGC		
project number	720405	no. du projet	
drawing no.	4 of 6	no. du dessin	

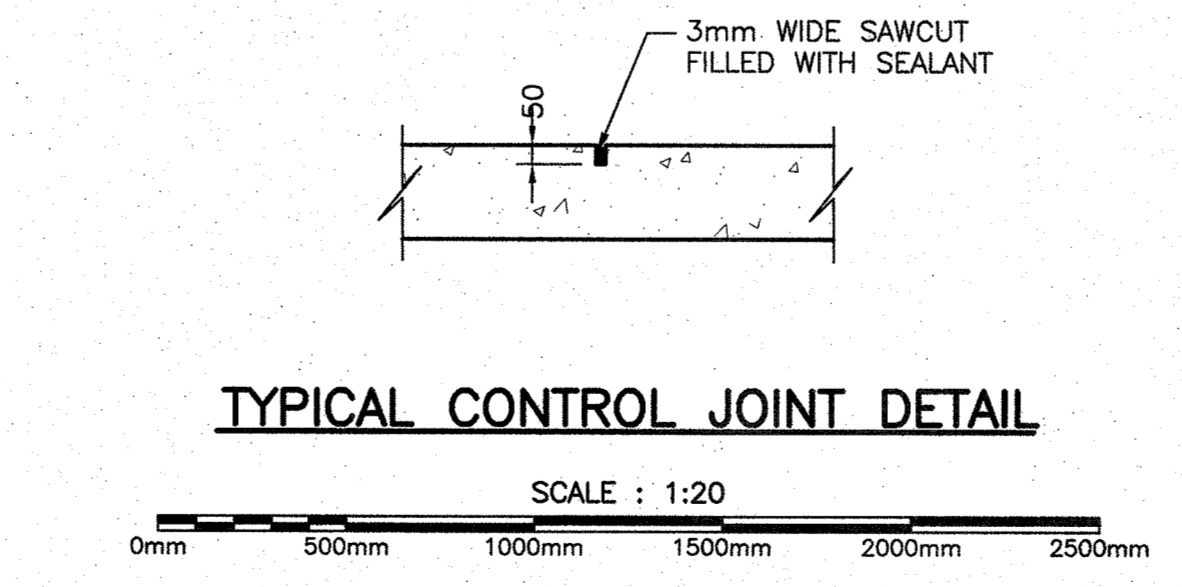
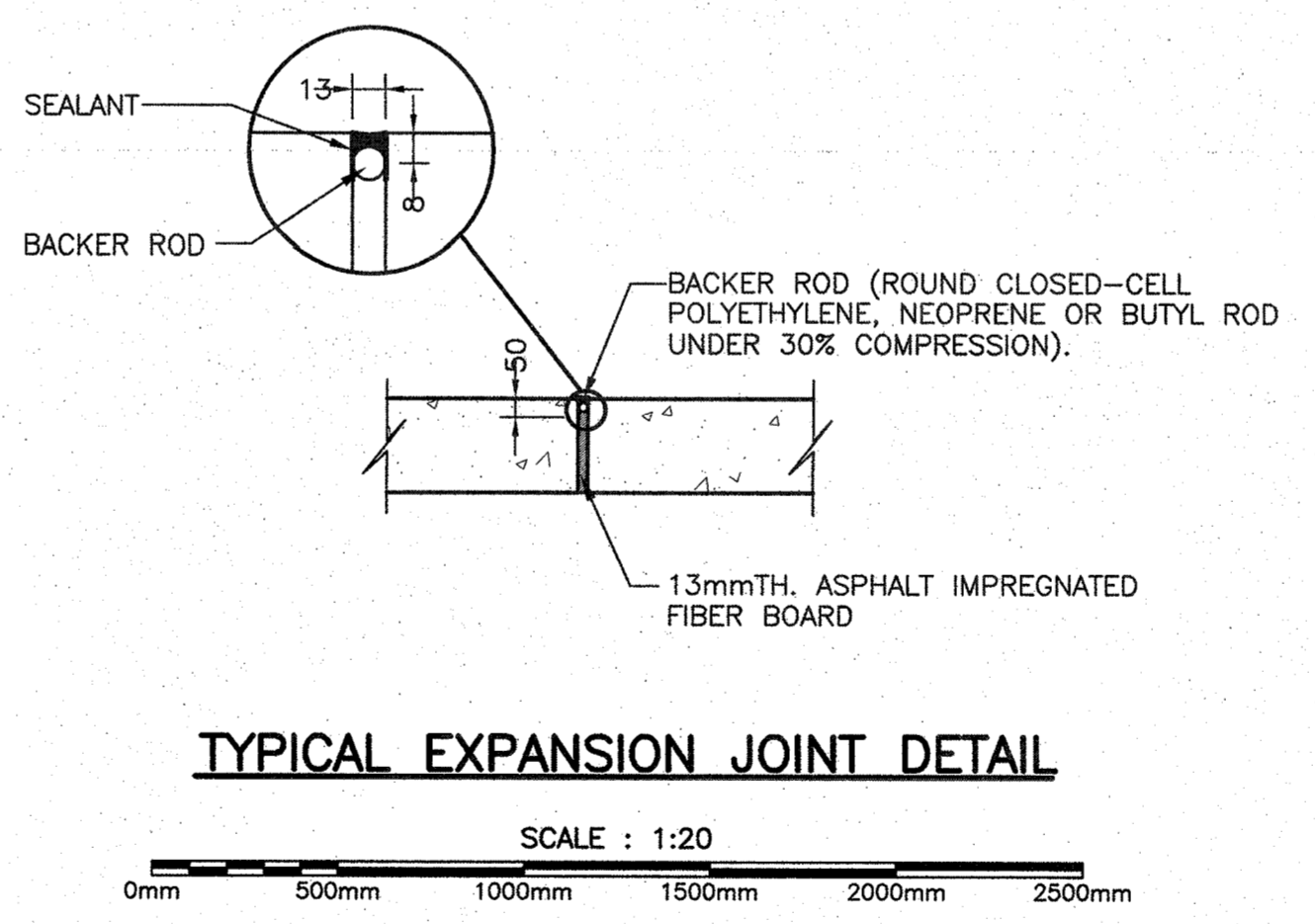
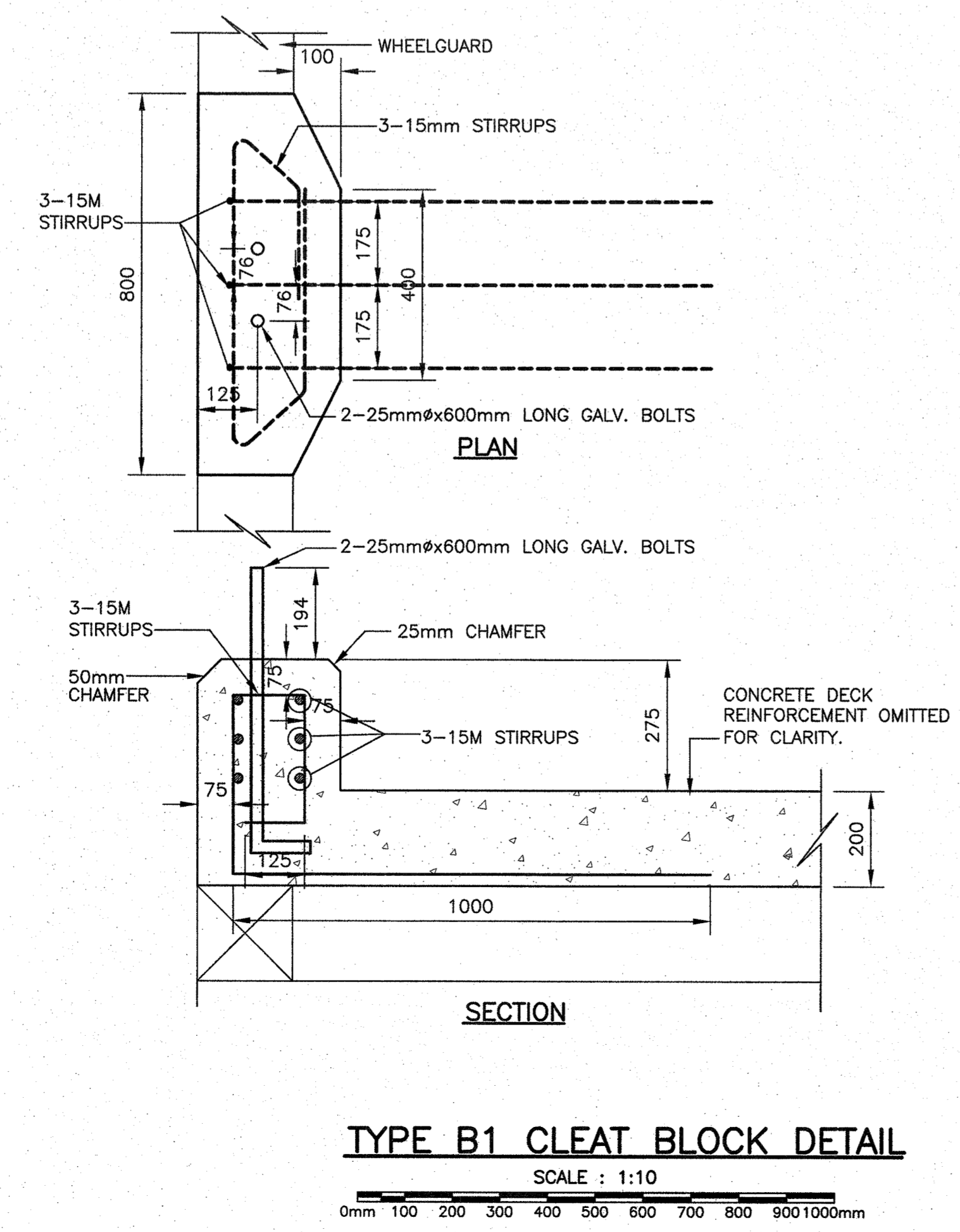
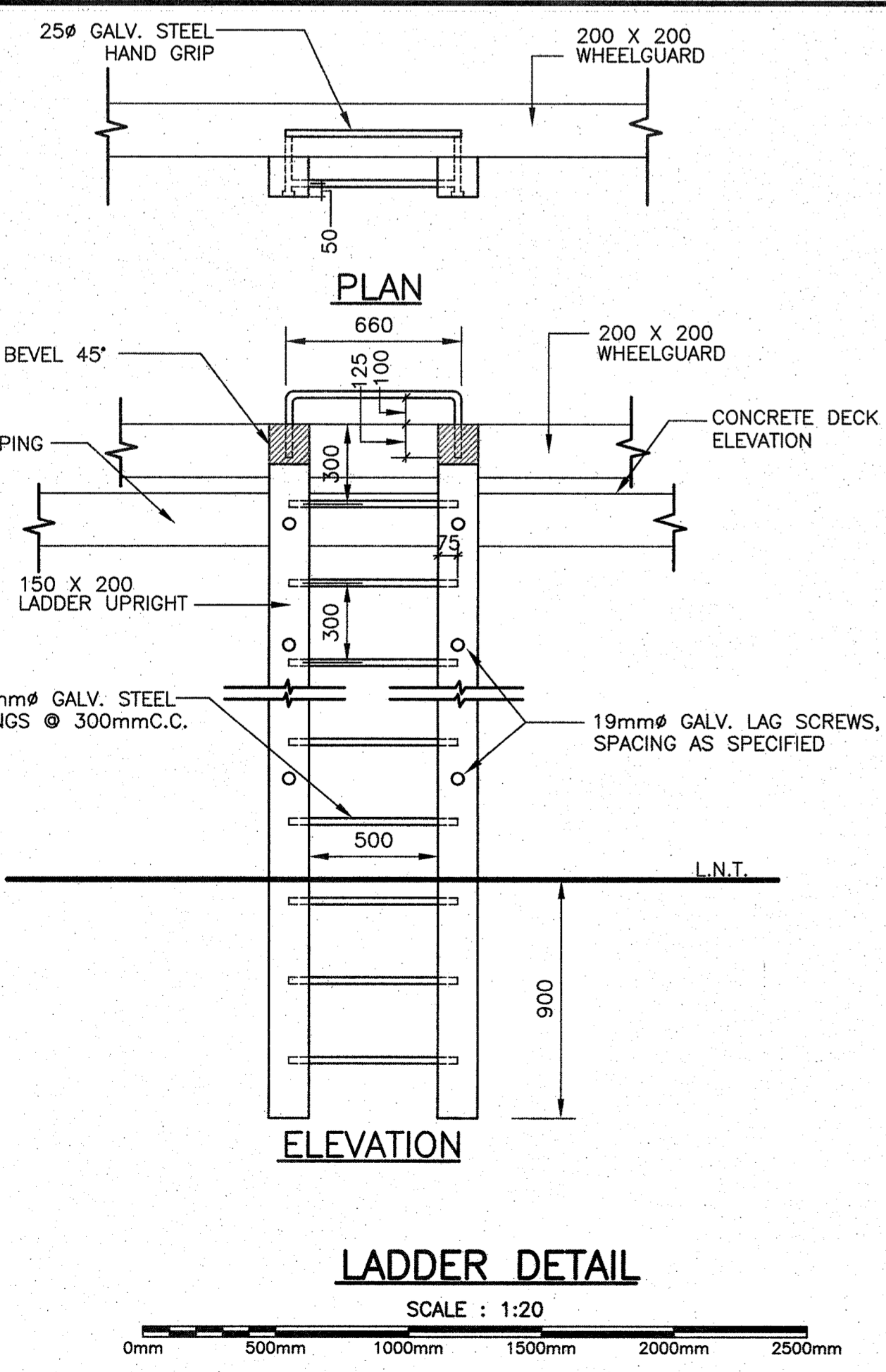
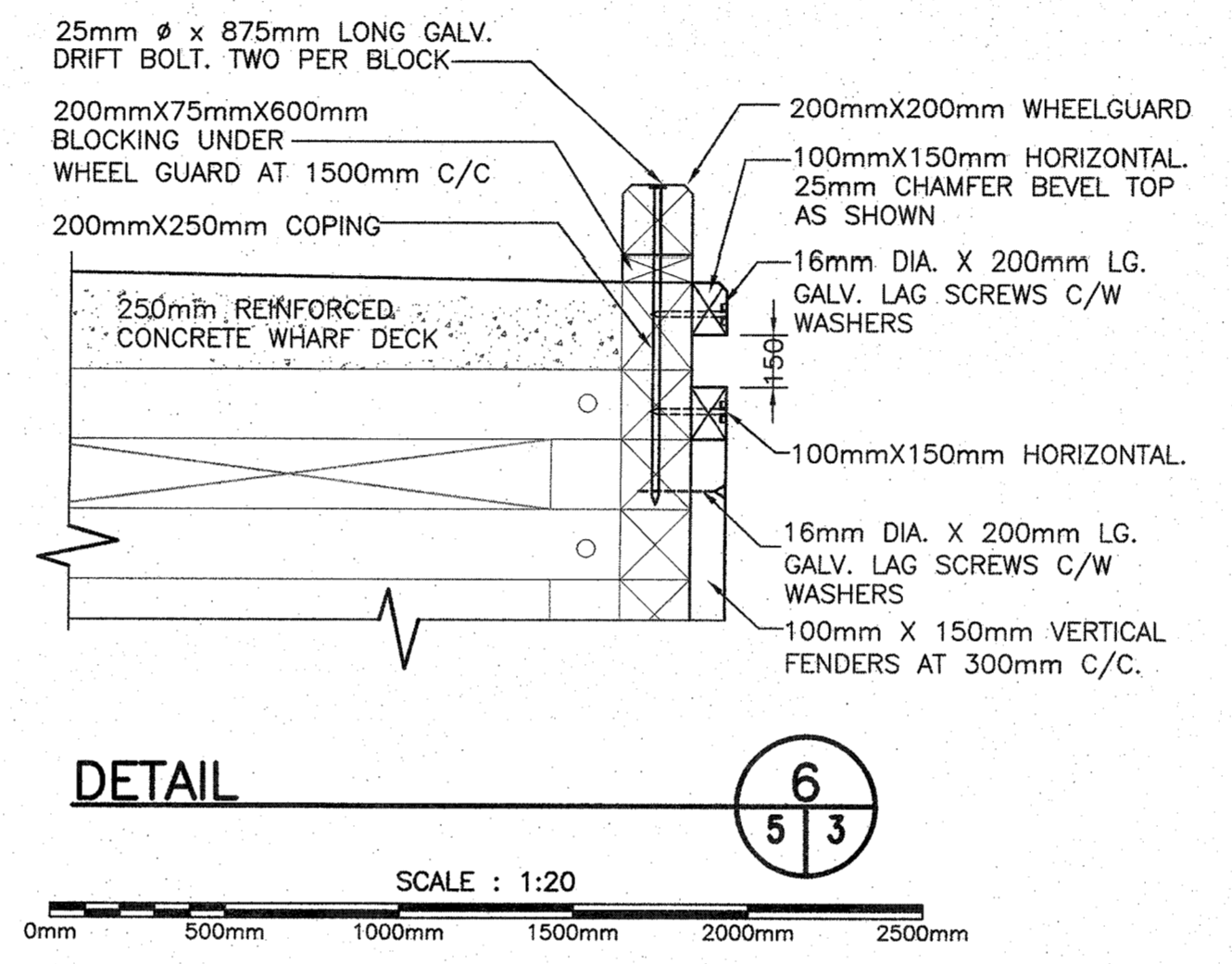
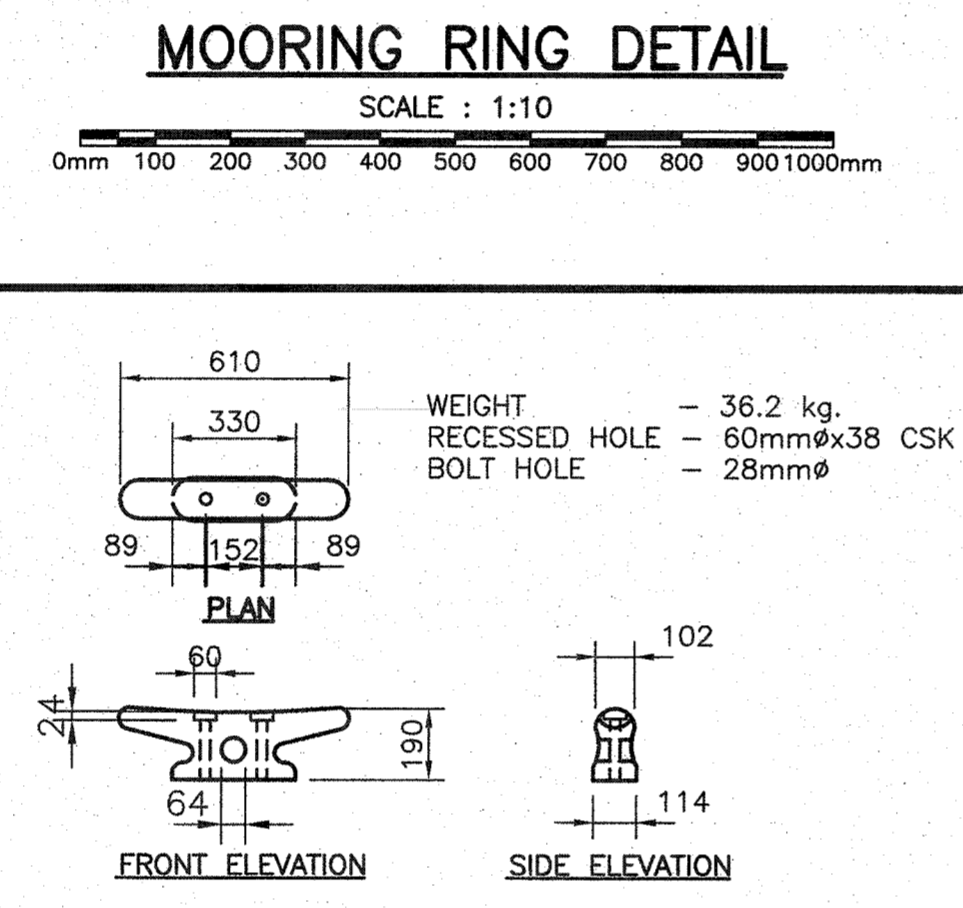
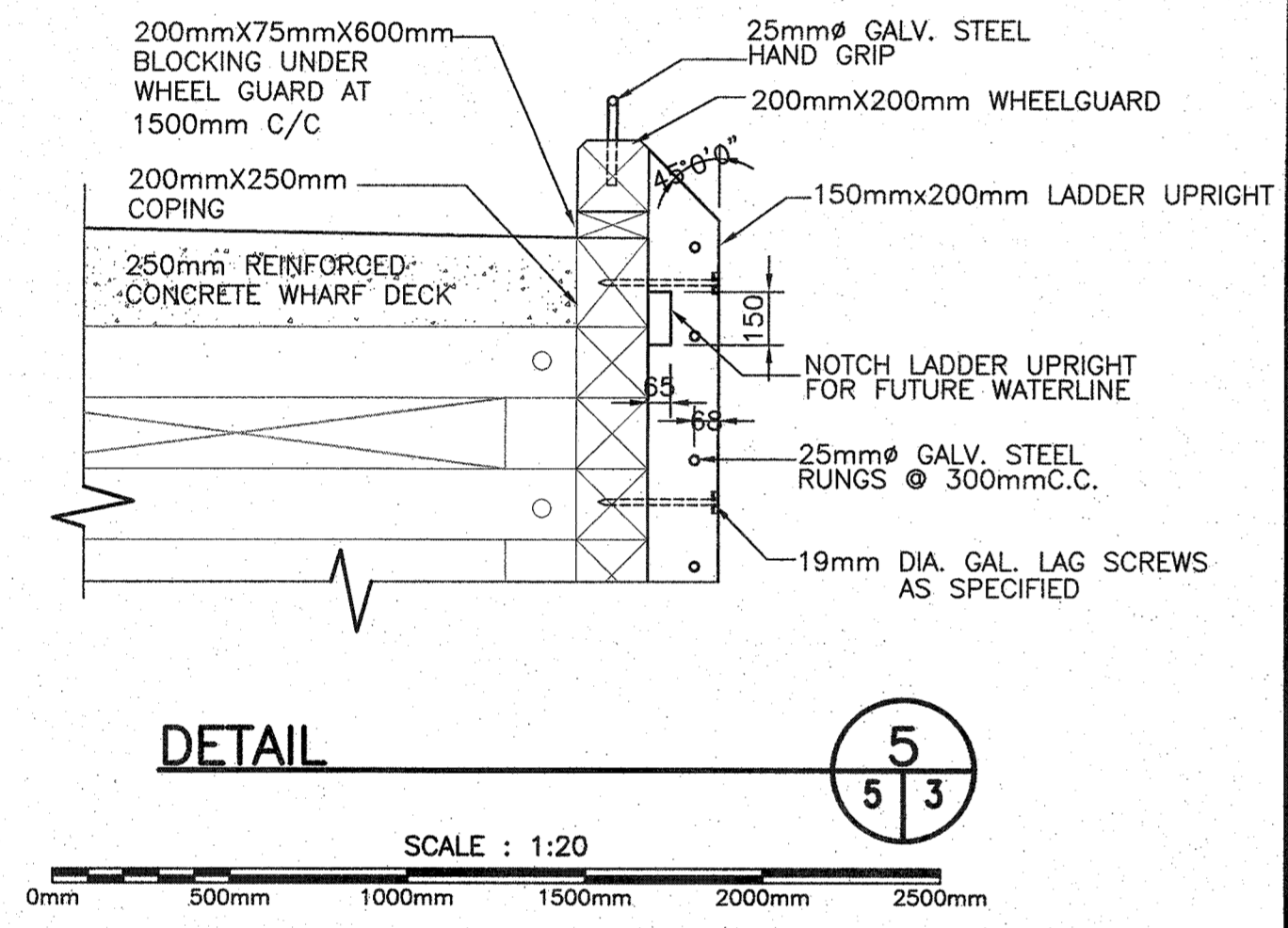


Small Craft Harbours Ports Pour Petits Bateaux

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 APELM 350292  
 which is valid for the year 2015.



- GENERAL NOTES:**
- DO NOT SCALE FROM DRAWINGS
  - ALL DIMENSIONS IN MILLIMETRES.
  - ALL DRIFT BOLTS 19mm, UNLESS OTHERWISE SPECIFIED.
  - ALL MACHINE BOLTS 19mm, UNLESS OTHERWISE SPECIFIED.
  - REINFORCING STEEL YIELD STRENGTH 400MPa.
  - MINIMUM CONCRETE COMPRESSIVE STRENGTH 35MPa @ 28 DAYS.
  - REINFORCING STEEL SPLICES TO CSA STANDARDS A23.3-04.
  - DECK DESIGN LOAD MS-150.
  - ALL TIMBER TO BE TREATED, UNLESS OTHERWISE SPECIFIED.
  - ALL HARDWARE TO BE GALVANIZED.
  - MINIMUM CONCRETE COVER 75mm.
  - NEW CRIB WORK TO REST ON ROCK MATTRESS.

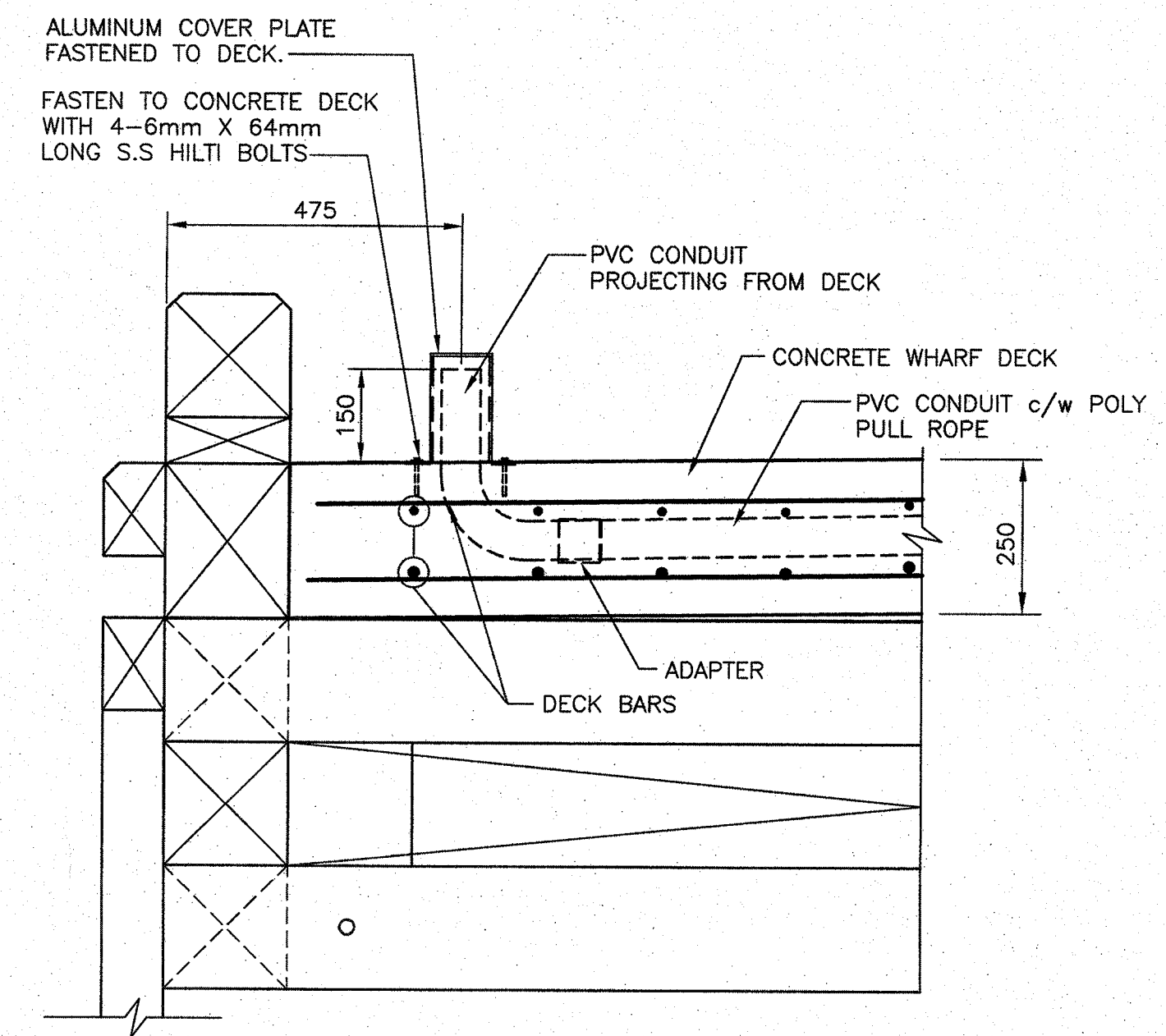
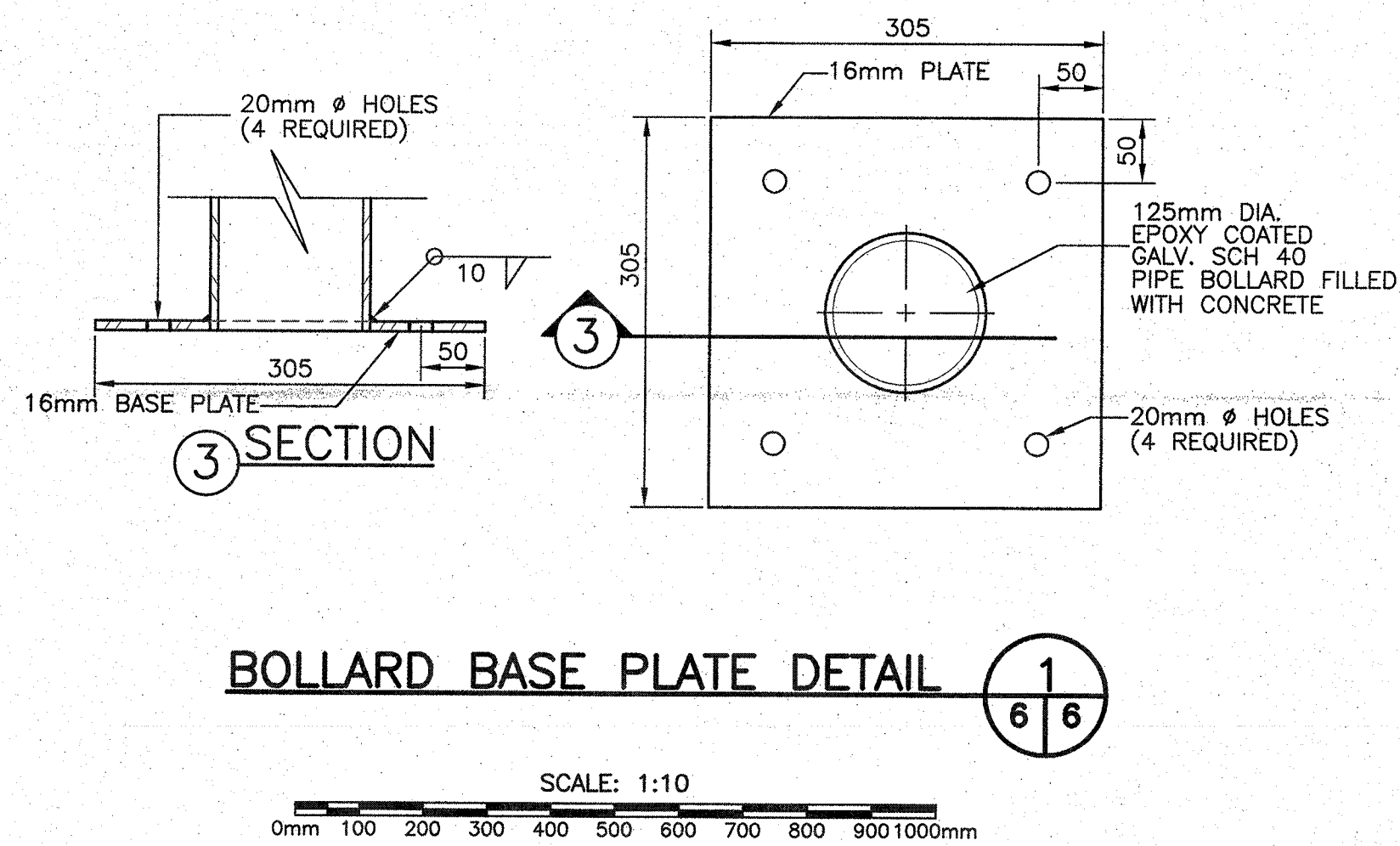
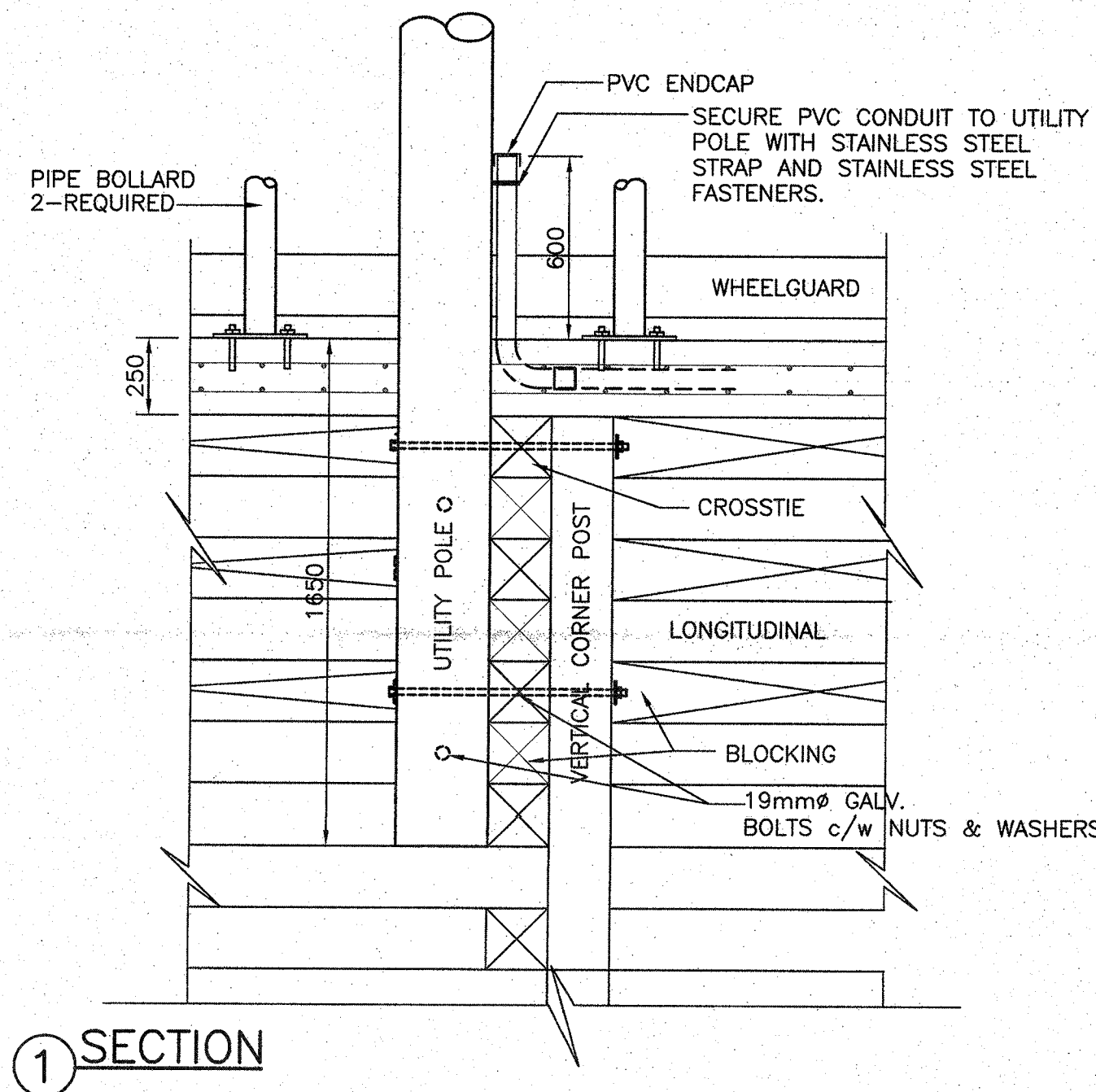
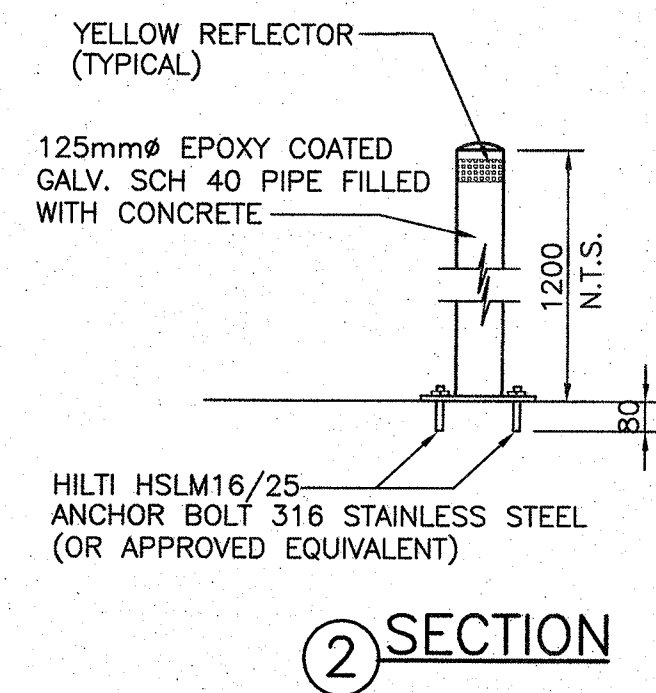
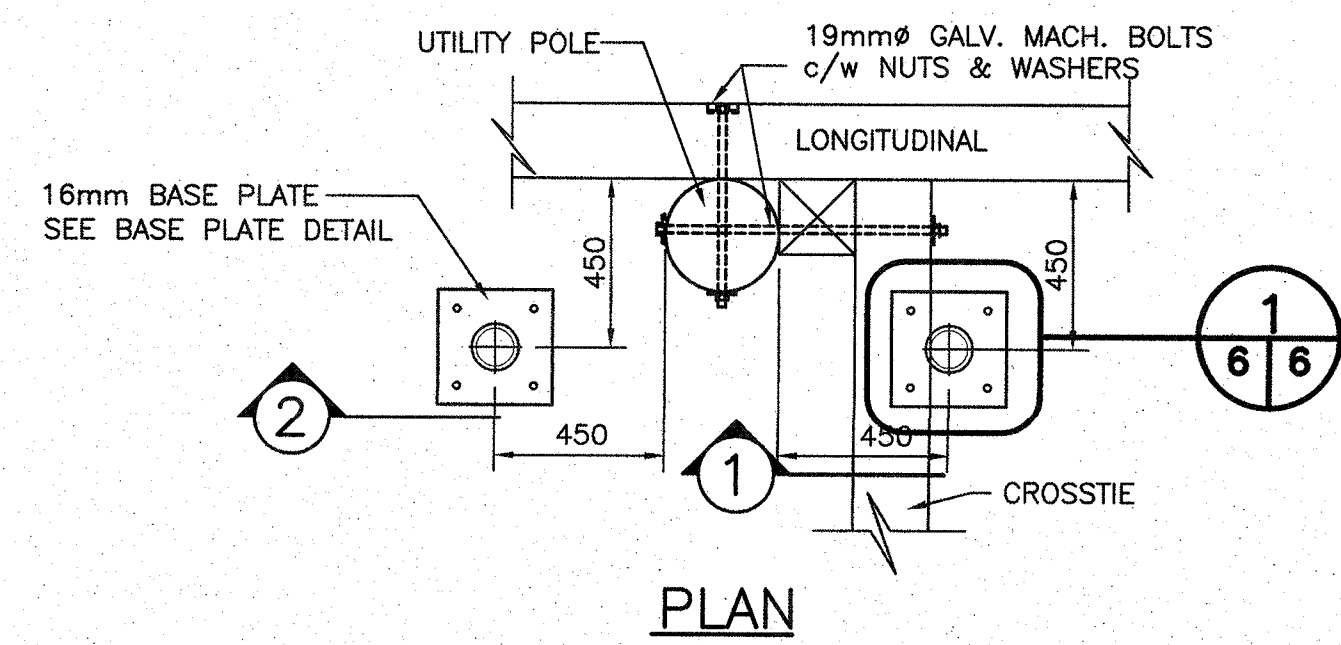


B	ISSUED FOR 99% REVIEW	06/01/15
A	ISSUED FOR CONCEPT REVIEW	04/12/14
	revisions	date

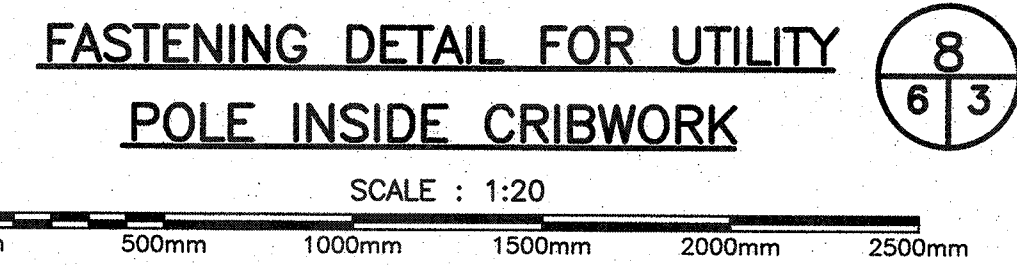
project MARGINAL WHARF RECONSTRUCTION ST. DAVID'S, (CRABBE'S RIVER) NL

drawing title MISC DETAILS AND GENERAL NOTES

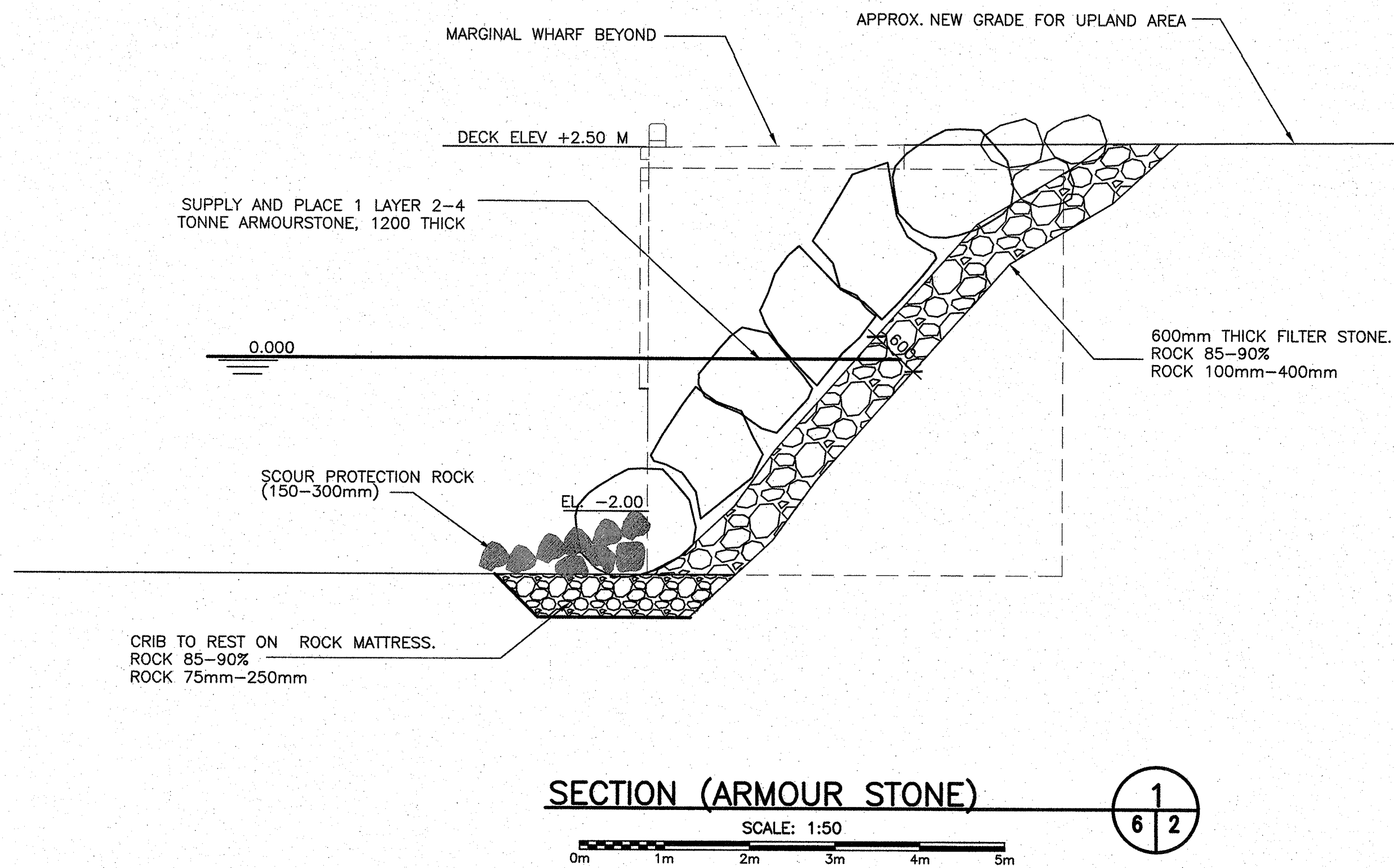
designed	W.J.A.	conpu
date	JAN. 2015	
drawn	R.S.H.	desain6
date	JAN. 2015	
approved		approv6
date		
Tender	Paul Curran	Submission
PWOSC Project Manager	Administrateur de projets TPSOC	
project number	720405	no. du projet
drawing no.	5 of 6	no. du dessin



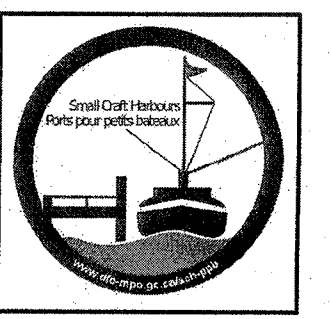
**PROTECTION PLATE DETAIL**  
(FUTURE ELECTRICAL PEDESTAL)  
SCALE: 1:10  
0mm 100 200 300 400 500 600 700 800 900 1000mm



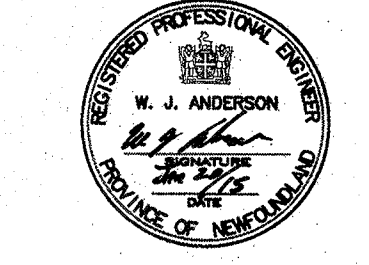
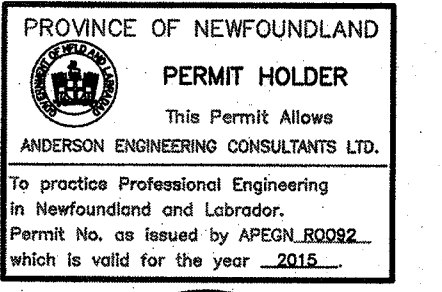
**FASTENING DETAIL FOR UTILITY POLE INSIDE CRIBWORK**  
SCALE: 1:20  
0mm 500mm 1000mm 1500mm 2000mm 2500mm



**SECTION (ARMOUR STONE)**  
SCALE: 1:50  
0m 1m 2m 3m 4m 5m



Small Craft Harbours Ports Pour Petits Bateaux



A	ISSUED FOR TENDER	01/11/14
revisions		date
project	MARGINAL WHARF RECONSTRUCTION ST. DAVID'S, (CRABBE'S RIVER) NL	projet
drawing	MISC. DETAILS AND SECTION.	dessin
designed	W.J.A	conçu
date	JAN. 2015	
drawn	R.S.H	dessiné
date	JAN. 20145	
approved		approuvé
date		
Tender	Paul Curran	Sourmission
PWSCC Project Manager	Administrateur de projets TPSCC	
project number	720405	no. du projet
drawing no.	6 of 6	no. du dessin