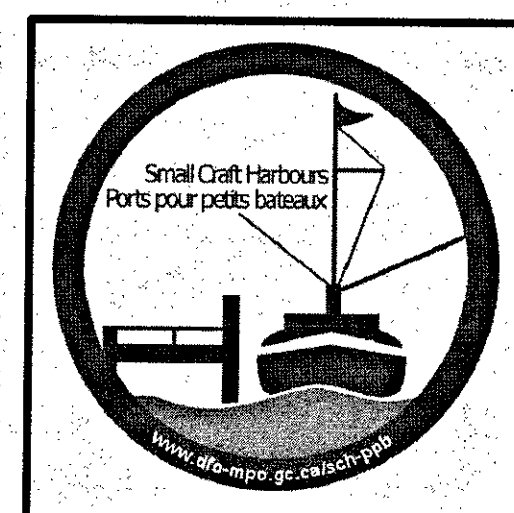




Fisheries and Oceans  
Canada

Pêches et Océans  
Canada



Small Craft Harbours  
Newfoundland Region  
St. John's, NL.

Ports Pour Petits Bateaux

## WHARF (#404) RECONSTRUCTION

# Codroy, NL

LONG RANGE MOUNTAINS DISTRICT, NEWFOUNDLAND AND LABRADOR

PROJECT NO. 704074

### DRAWING LIST

DRAWING NO.	TITLE
	COVER
1 OF 7	SITE LOCATION MAP, EXISTING SITE PLAN, DEMOLITION PLAN AND SECTION
2 OF 7	NEW SITE PLAN, WHARF PLAN
3 OF 7	NEW WHARF SECTIONS
4 OF 7	WHARF CRIB PLAN, WHARF ELEVATIONS AND DETAILS
5 OF 7	MISC. DETAILS
6 OF 7	MISC. DETAILS
7 OF 7	ELECTRICAL BUILDING PLAN, SECTION AND DETAILS
E1 OF 5	DEMOLITION SITE PLAN AND LEGEND
E2 OF 5	NEW SITE PLAN
E3 OF 5	NEW WHARF & PEDESTAL DETAILS
E4 OF 5	ELECTRICAL DETAILS
E5 OF 5	PANEL SCHEDULES & DETAILS

Canada



**SURVEY NOTES**

SURVEY PARTY CHIEF EDDIE BEARNS  
 SURVEY VESSEL ALUMINUM BOAT  
 SURVEY DATE(S) FEB.03,2012 & MAR. 01,2012  
 SOUNDER TYPE: SINGLE TRANSDUCER  
 SOUNDER SETTING MIN/INST VEL. OF SOUND 1520 m/s  
 DEPTH GATE USED N/A FRE. OF TRANS. 210 KHZ  
 POSITIONING SYSTEM USED DGPS (WITH OTF)  
 LAND SURVEY POSITION BY DGPS (WITH OTF)  
 DATA TAPE/DISC(S) USED  
 CAD DRAWING FILE(S):  
 TIDAL REDUCTION SCHEME

OFFICE PROCESSOR EDDIE BEARNS  
 DATE OF PROCESSING MARCH 2012

MODE OF PLOTTING AVERAGE DEPTHS  
 MATRIX CELL WIDTH X LENGTH  
 REDUCTION OF MATRIX CELLS

CONTROL POINTS:  
 PL. NAME EASTING NORTHING CD ELEV DESCRIPTION  
 84G4168 320790.322 5306664.098 PROVINCIAL BRASS PLAQUE IN ROCK  
 84G4169 321353.007 5305545.412 PROVINCIAL BRASS PLAQUE IN ROCK  
 PWC BM 1-87 +2.909 m X-CUT IN BOLT OF FISHERIES SIGN.  
 PWC 2-87 320746.807 5305719.448 +3.072 m BOLT CEMENTED IN CONCRETE DECK OF WHARF

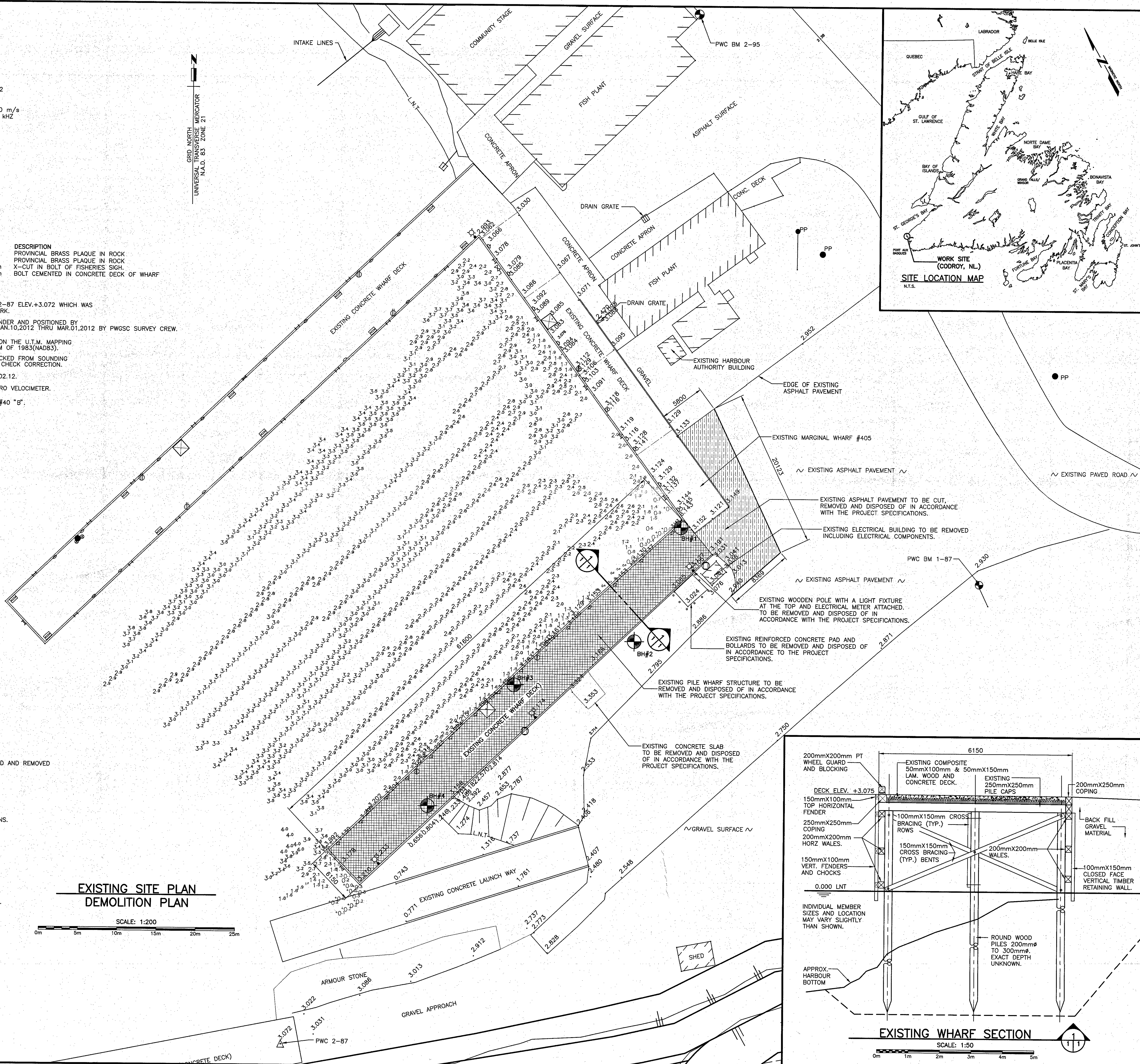
ALL SOUNDINGS & ELEVATIONS IN METRES.  
 ALL SOUNDINGS & ELEVATIONS REFERRED TO PWC 2-87 ELEV.+3.072 WHICH WAS ESTABLISHED BY LEVELING FROM THE CHS BENCH MARK.  
 SOUNDINGS TAKEN USING NAVISOUND 210 ECHO SOUNDER AND POSITIONED BY TRIMBLE DIFFERENTIAL GPS POSITIONING SYSTEM ON JAN.10,2012 THRU MAR.01,2012 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 FOR SOUNDING CHARTS BEFORE BEING CORRECTED FOR TIDE & BAR CHECK CORRECTION.  
 SOUNDINGS WERE REDUCED USING HYPACK MAX VER.02.12.  
 SPEED OF SOUND WAS OBTAINED USING A DIGIBAR-PRO VELOCIMETER.  
 ALL FIELD NOTES ARE IN CODROY BOOK #40 "A" & #40 "B".

**LEGEND**

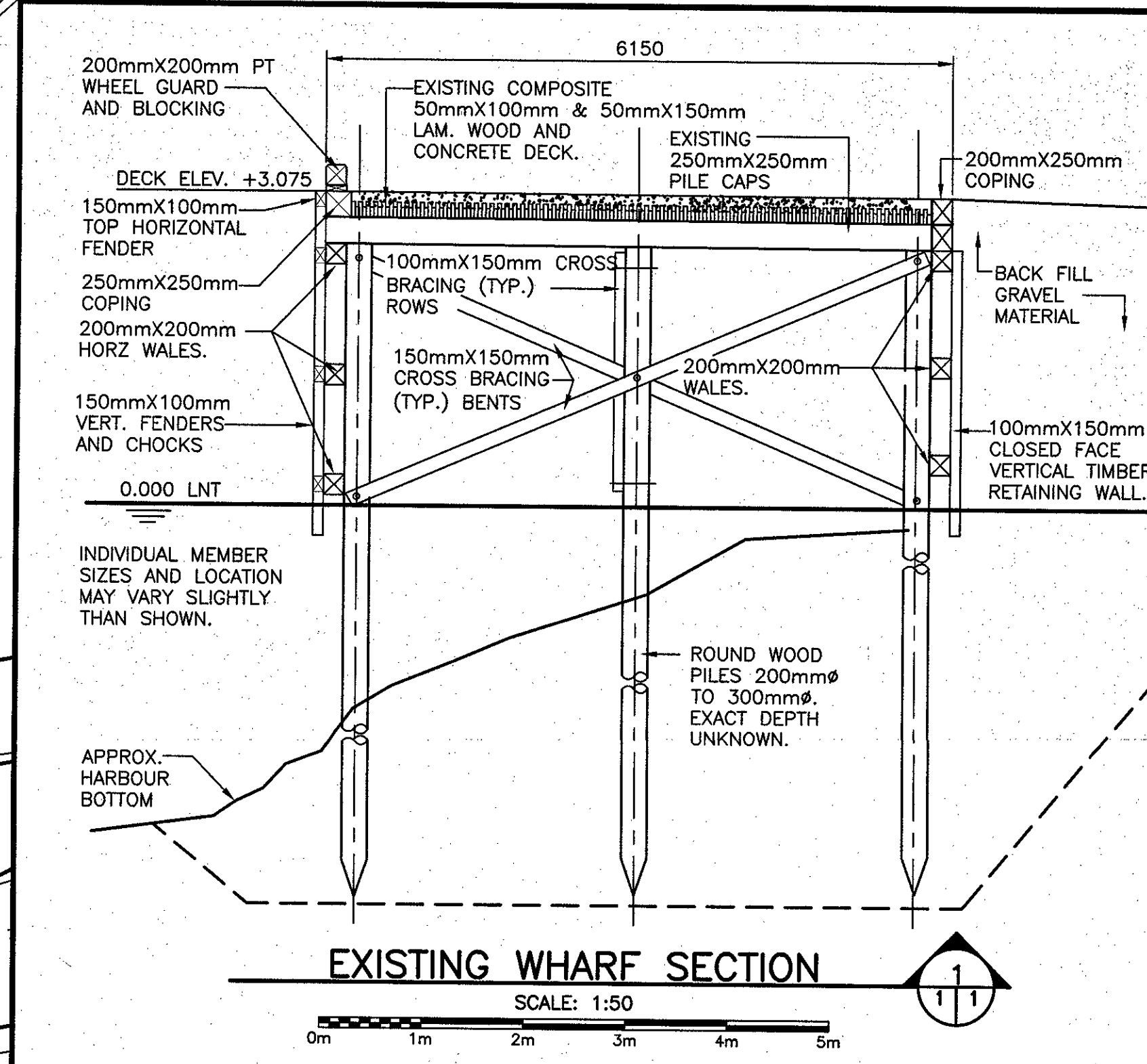
- EXISTING LIFE RING
- EXISTING HYDRO POLE
- △ HORIZONTAL /VERTICAL CONTROL
- 0.00 EXISTING GRADE ELEVATION
- EXISTING B1 CLEAT
- ▭ EXISTING TYPE "A" CLEAT & BLOCK
- ▭ EXISTING CULVERT
- EXISTING POLE WITH LIGHT FIXTURE
- EXISTING ELECTRICAL PEDESTAL
- ▭ EXISTING LADDER
- ▭ EXISTING WATER CONNECTION
- ▭ EXISTING JIB CRANE BASE
- ▭ INDICATES EXISTING WHARF TO BE DEMOLISHED AND REMOVED
- ▭ INDICATES EXISTING ASPHALT TO BE REMOVED
- BH#1 INDICATES BORE HOLE LOCATIONS. BORE HOLE INFORMATION CAN BE FOUND IN APPENDIX A OF THE TECHNICAL SPECIFICATIONS.

- GENERAL NOTES:**
- ALL DIMENSIONS IN MILLIMETERS.
  - ALL SOUNDINGS & ELEVATIONS IN METERS.
  - CONTRACTOR TO VERIFY ALL DIMENSIONS AND ALL EXISTING SITE CONDITIONS IN THE FIELD. ALL ERRORS AND UNSATISFACTORY CONDITIONS TO BE REPORTED TO THE DEPARTMENTAL REPRESENTATIVE.
  - THE CONTRACTOR SHALL VISIT THE SITE AND BECOME FAMILIAR WITH THE EXISTING CONDITIONS PRIOR TO BIDDING THIS PROJECT. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO INFORM THE DEPARTMENTAL REPRESENTATIVE IN WRITING OF ANY DISCREPANCIES IN EXISTING CONDITIONS AND THE PROJECT DRAWINGS.

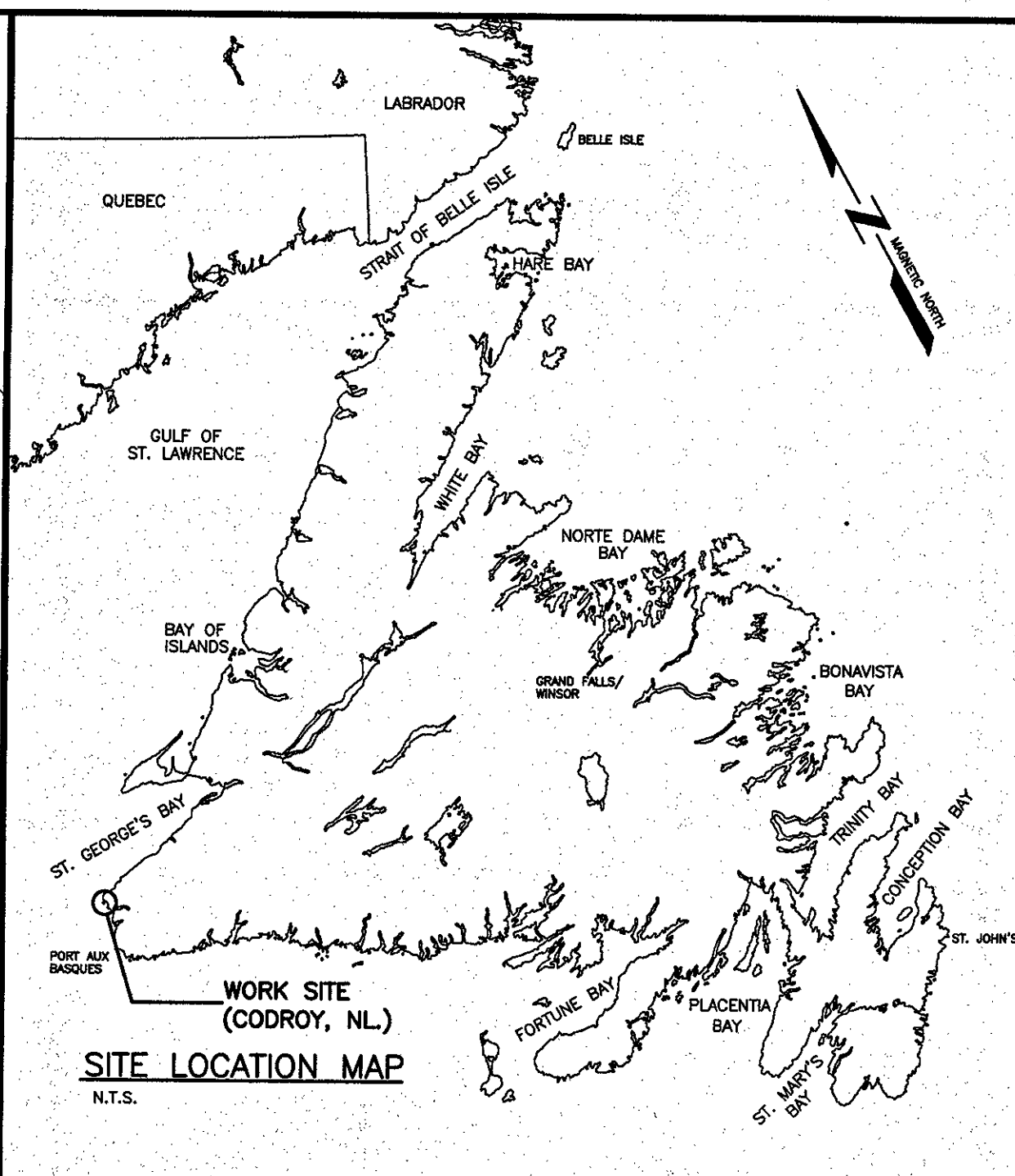
GRID NORTH  
 UNIVERSAL TRANSVERSE MERCATOR  
 N.A.D. 83, ZONE 21



**EXISTING SITE PLAN  
 DEMOLITION PLAN**  
 SCALE: 1:200



**EXISTING WHARF SECTION**  
 SCALE: 1:50



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**SMALL CRAFT HARBOURS**

PROVINCE OF NEWFOUNDLAND

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 Permit No. 99 issued by APECH 80092...  
 which is valid for the year 2012.

revisions	date
0	ISSUED FOR TENDER 25/01/17

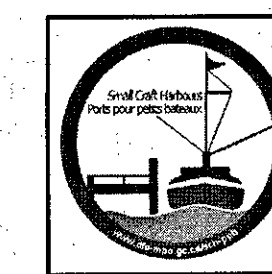
**WHARF (#404)  
 RECONSTRUCTION  
 CODROY, NL.**

**SITE LOCATION MAP,  
 EXISTING SITE PLAN,  
 DEMOLITION PLAN  
 AND SECTION**

designed W.J. ANDERSON conou  
 date JAN. 2017  
 drawn R.S.H. dessine  
 date JAN. 2017  
 approved  
 date  
 Tender Paul Curran Submission  
 DFO Project Manager  
 project number 704074 no. du projet  
 drawing no. 1 of 7 no. du dessin



SMALL CRAFT HARBOURS



EDGE OF EXISTING ASPHALT PAVEMENT

PROPOSED LOCATION OF NEW PT POWER POLE. TO BE CONFIRMED IN FIELD BY POWER COMPANY.

NEW 3050mmX3050mm ELECTRICAL SHED SEE DWG. 7 OF 7 FOR CONSTRUCTION DETAILS

2-NEW BOLLARDS. **11**  
2 5

NEW 100mmØ PVC, SDR28 DRAIN PIPING AT MIN 2% GRADE FROM ELECTRICAL BUILDING OUT TO UNDERSIDE OF THE EXISTING MARGINAL WOOD PILE WHARF.

ELECTRICAL CONDUIT TRENCH SEE ELECTRICAL DRAWINGS.

EXISTING ASPHALT PAVEMENT EDGE TO BE SAW CUT AND TACK COAT PRIOR TO PLACEMENT OF NEW ASPHALT PAVEMENT.

NEW 65mm ASPHALT PAVEMENT 100mm TYPE 1 BASE MATERIAL 150mm TYPE 2 SUB BASE MATERIAL COMMON GRAVEL FILL MATERIAL **12**  
2 5

EXISTING ASPHALT PAVEMENT EDGE TO BE SAW CUT AND TACK COAT PRIOR TO PLACEMENT OF NEW ASPHALT PAVEMENT.

NEW 12.2M HIGH PT WOODEN UTILITY POLE WITH 4-NEW BOLLARDS SEE DETAIL. **8**  
2 5

SAW CUT EDGE OF EXISTING ASPHALT PAVEMENT AND TACK COAT PRIOR TO PLACEMENT OF NEW ASPHALT PAVEMENT.

EXISTING ASPHALT PAVEMENT

NEW 65mm ASPHALT PAVEMENT 100mm TYPE 1 BASE MATERIAL 150mm TYPE 2 SUB BASE MATERIAL COMMON GRAVEL FILL MATERIAL **12**  
2 5

NEW 12.2M HIGH PT WOODEN UTILITY POLE WITH 4-NEW BOLLARDS SEE DETAIL. **8**  
2 5

EDGE OF NEW ASPHALT PAVEMENT

GRAVEL SURFACE

100mm THICK TYPE 1 MATERIAL (COMPACTED)

RIP-RAP STONE 500kg-750kg TONNE ROCK

EXISTING CONCRETE BOAT LAUNCH RAMP

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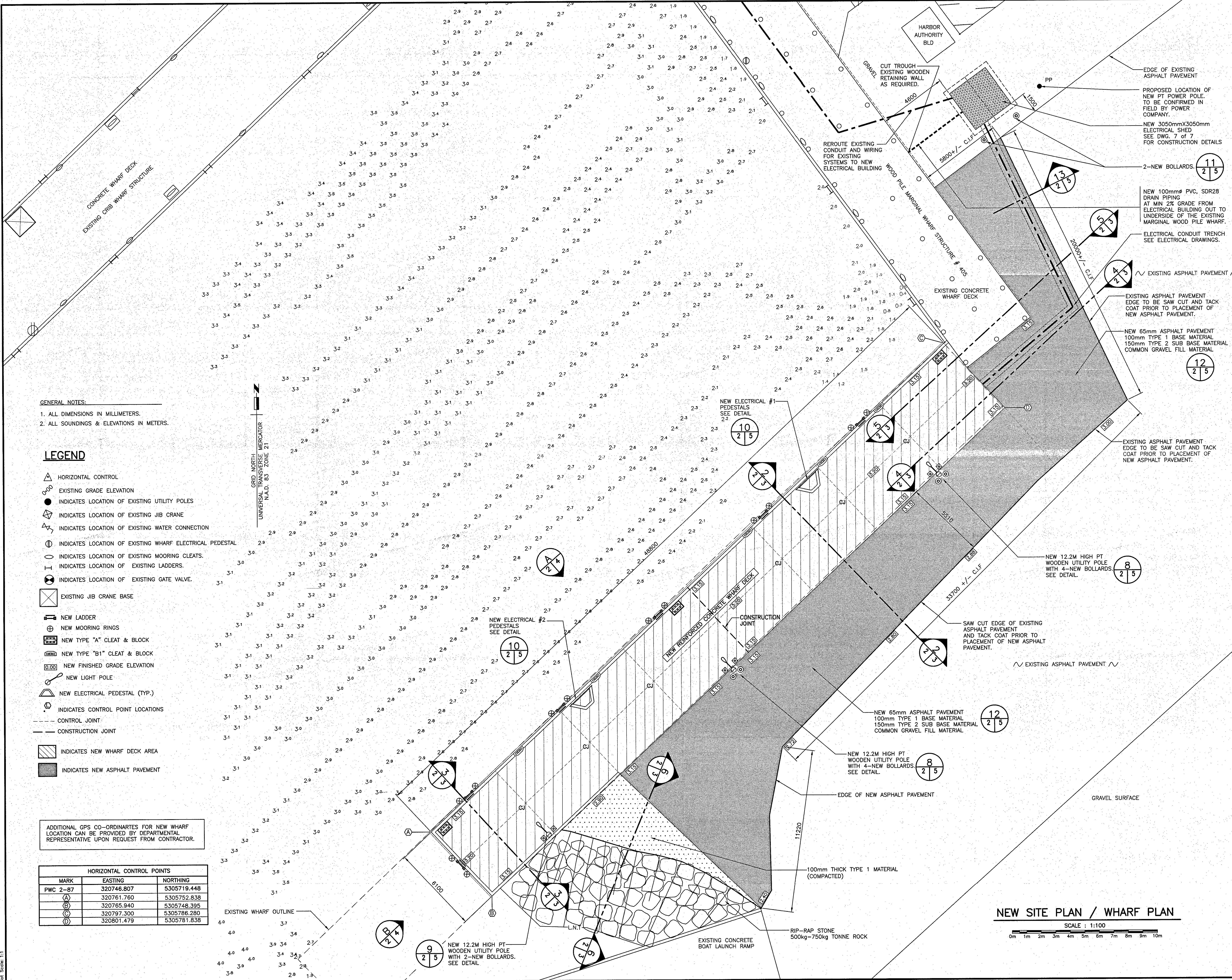
REGISTERED PROFESSIONAL ENGINEER  
W. J. ANDERSON  
No. 25177  
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0	ISSUED FOR TENDER	25/01/17
revisions		date
project	WHARF (#404) RECONSTRUCTION CODROY, NL.	project
drawing		design
designed	W.J. ANDERSON	concu
date	JAN. 2017	date
drawn	R.S.H	dessine
date	JAN. 2017	date
approved		approve
date		date
Tender	Paul Curran	Submission
DFD Project Manager		
project number	704074	no. du projet
drawing no.	2 of 7	no. du dessin

NEW SITE PLAN / WHARF PLAN

SCALE : 1:100

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



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

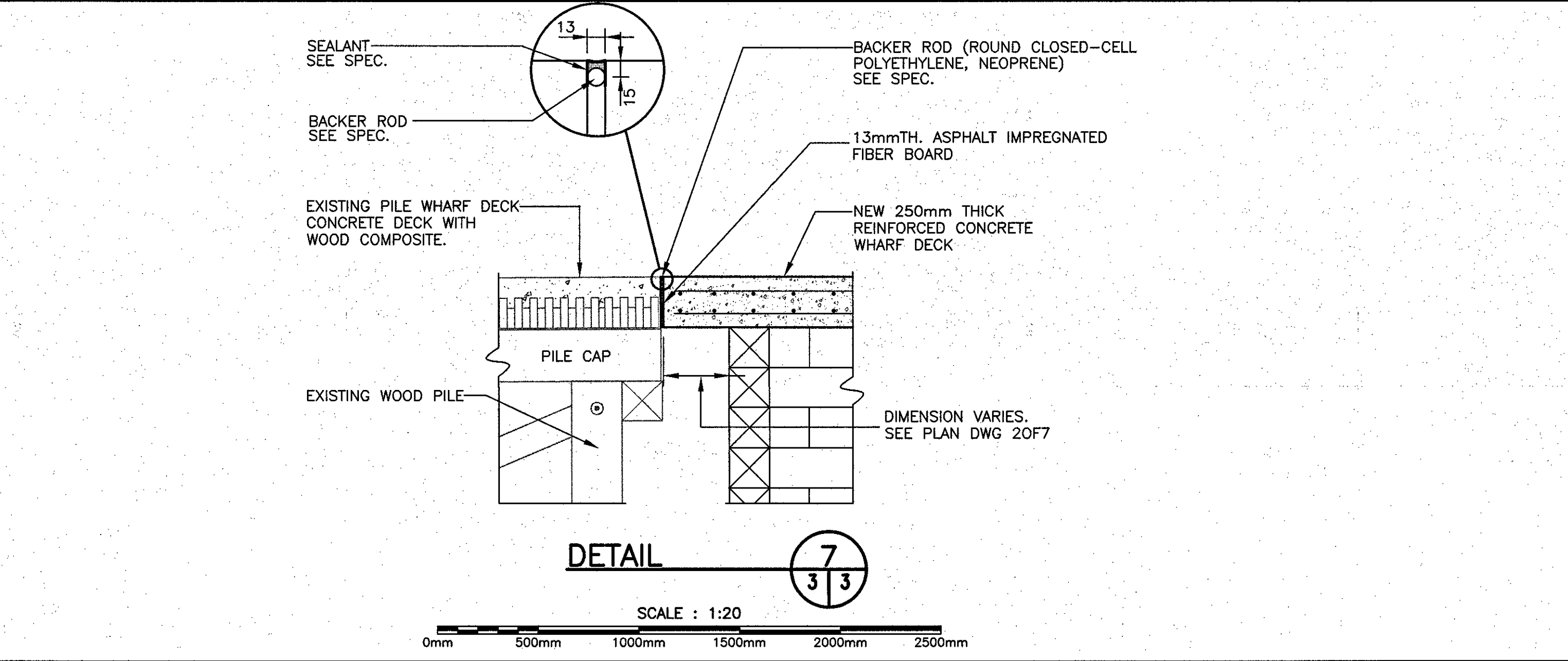
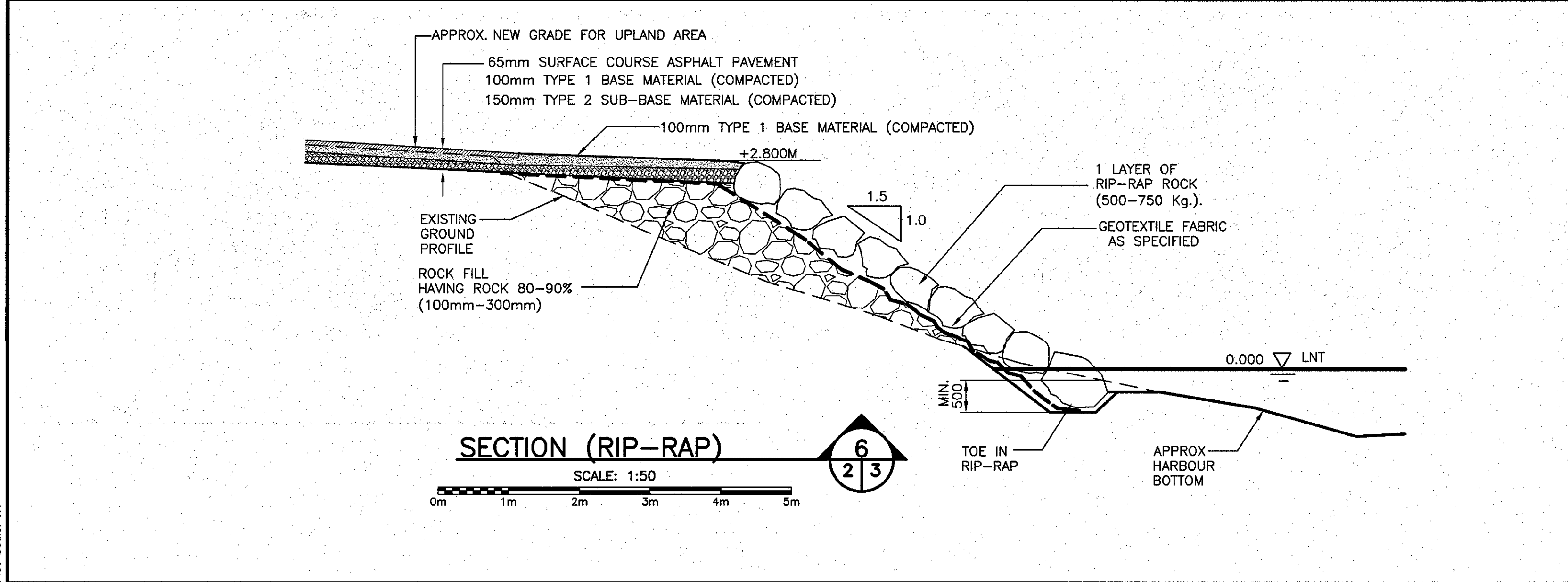
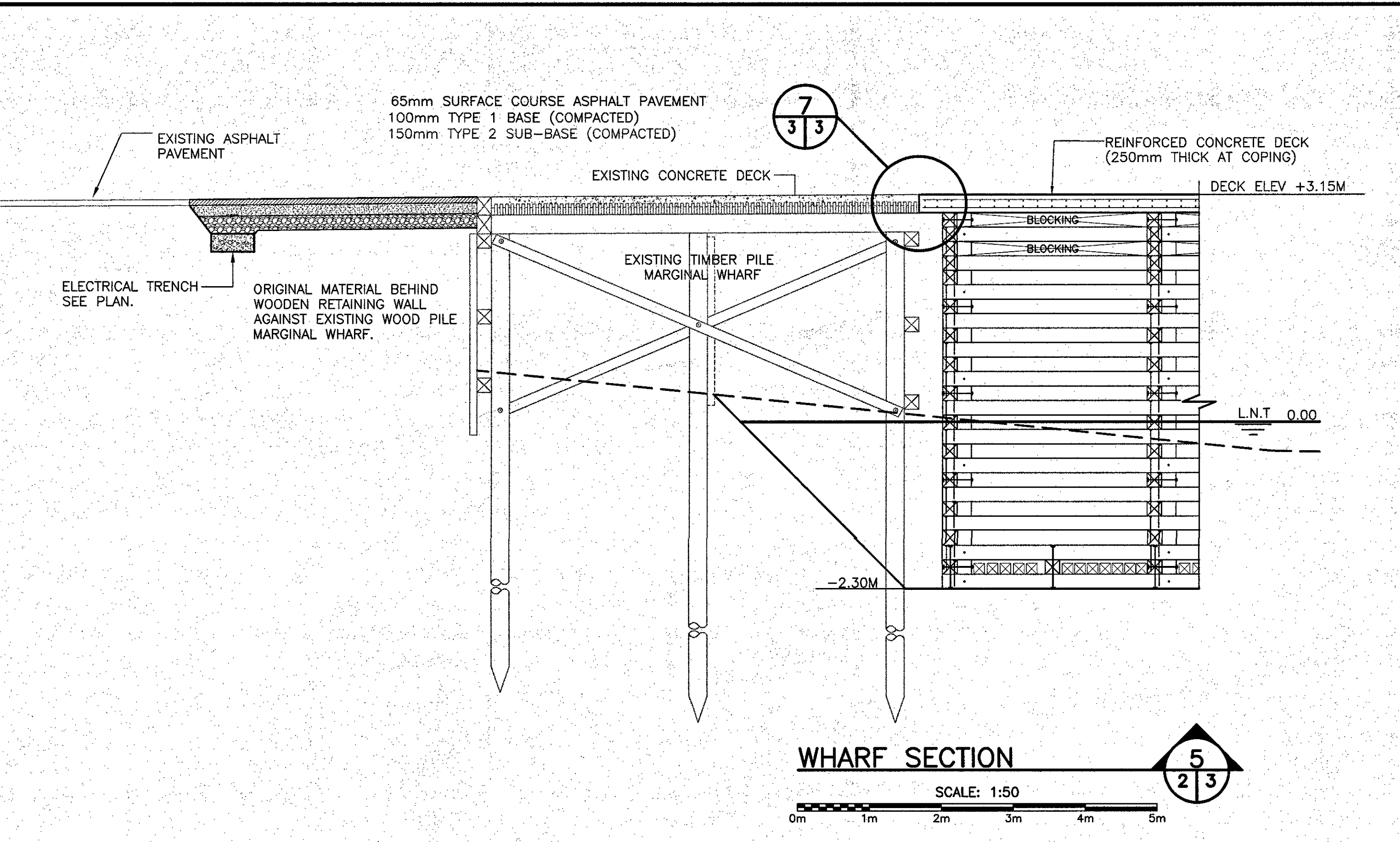
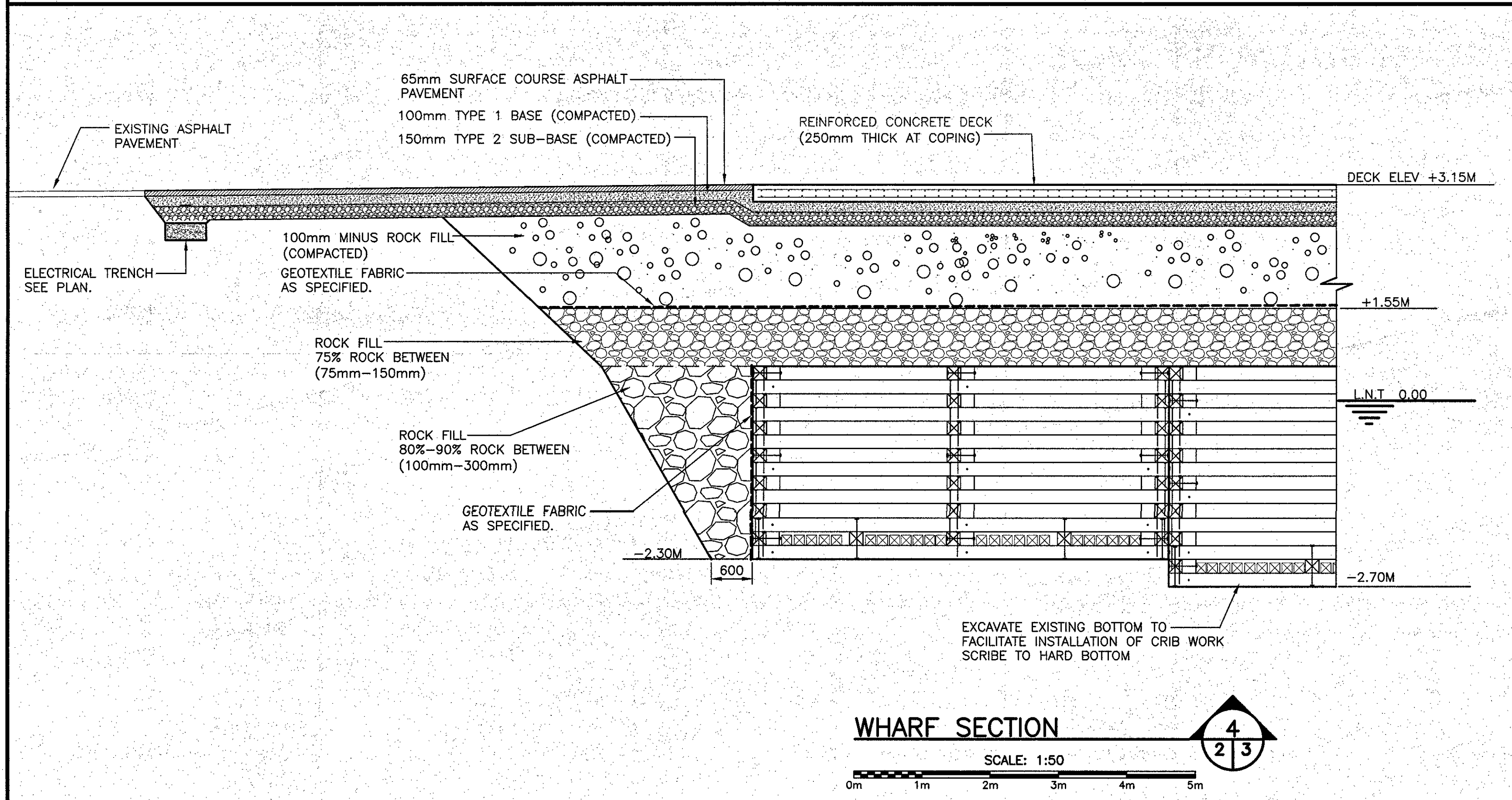
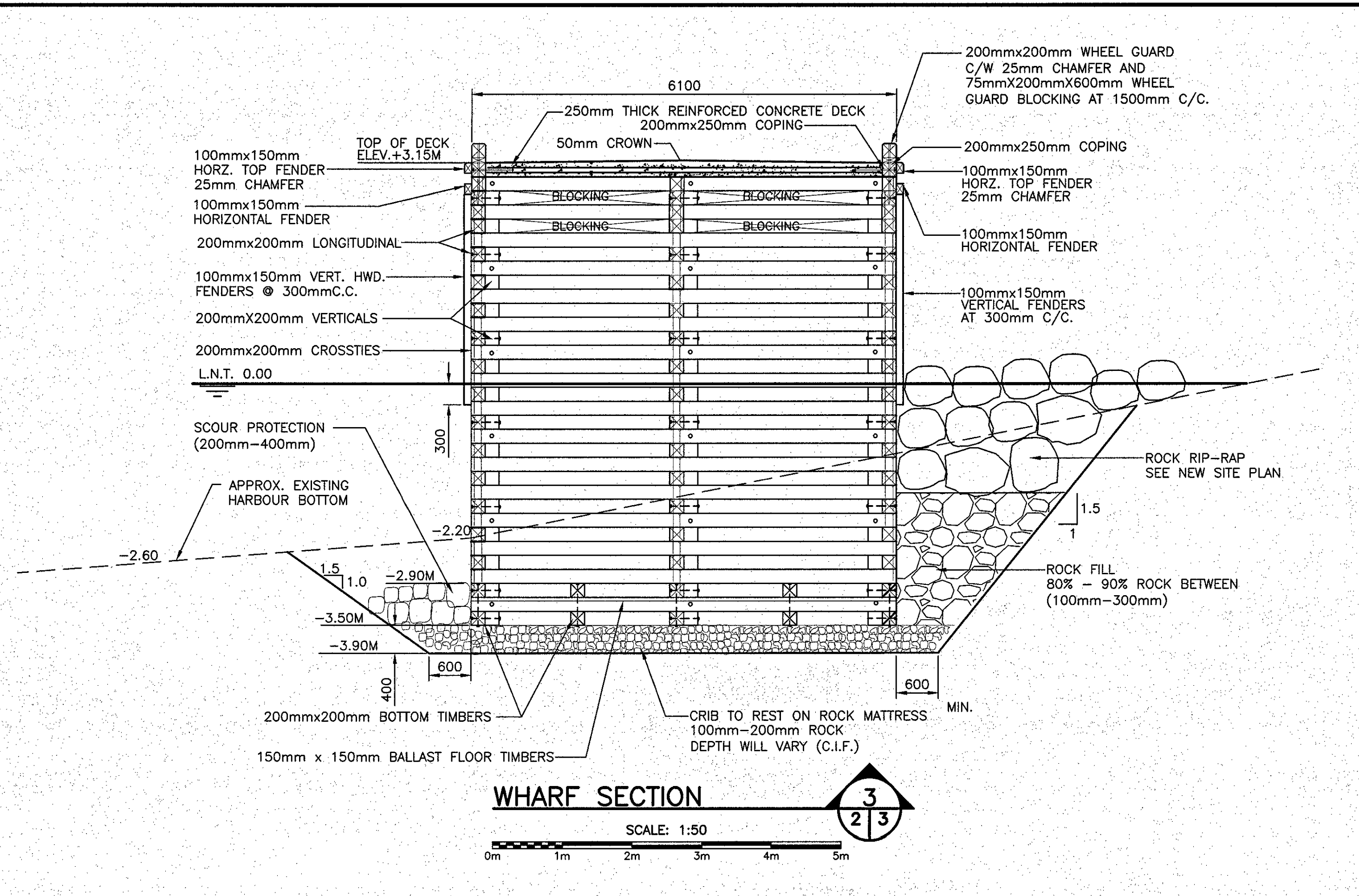
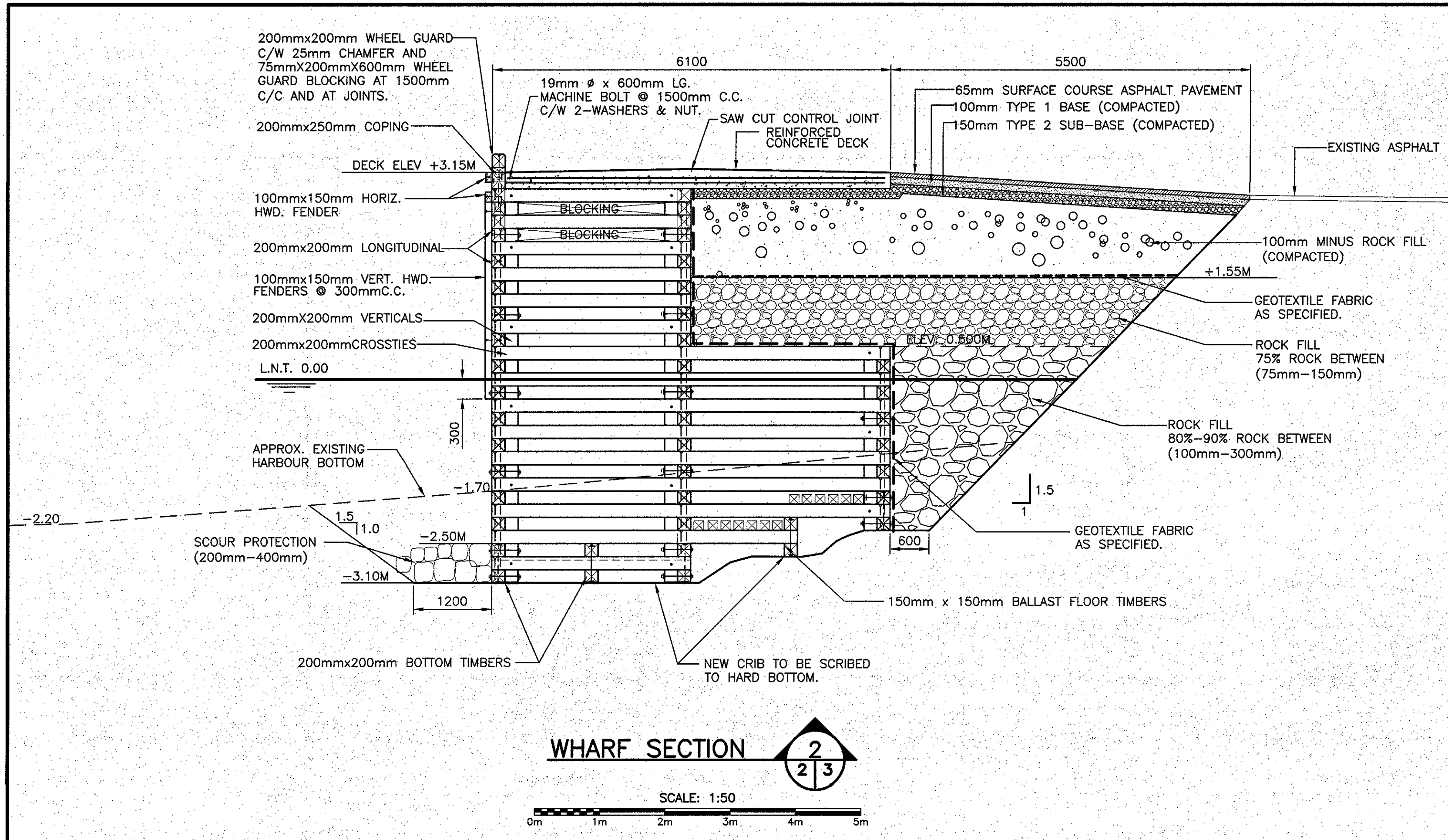
LEGEND

- HORIZONTAL CONTROL
- EXISTING GRADE ELEVATION
- INDICATES LOCATION OF EXISTING UTILITY POLES
- INDICATES LOCATION OF EXISTING JIB CRANE
- INDICATES LOCATION OF EXISTING WATER CONNECTION
- INDICATES LOCATION OF EXISTING WHARF ELECTRICAL PEDESTAL
- INDICATES LOCATION OF EXISTING MOORING CLEATS.
- INDICATES LOCATION OF EXISTING LADDERS.
- INDICATES LOCATION OF EXISTING GATE VALVE.
- EXISTING JIB CRANE BASE
- NEW LADDER
- NEW MOORING RINGS
- NEW TYPE "A" CLEAT & BLOCK
- NEW TYPE "B1" CLEAT & BLOCK
- NEW FINISHED GRADE ELEVATION
- NEW LIGHT POLE
- NEW ELECTRICAL PEDESTAL (TYP.)
- INDICATES CONTROL POINT LOCATIONS
- CONTROL JOINT
- CONSTRUCTION JOINT
- INDICATES NEW WHARF DECK AREA
- INDICATES NEW ASPHALT PAVEMENT

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

HORIZONTAL CONTROL POINTS		
MARK	EASTING	NORTHING
PWC 2-87	320746.807	5305719.448
(A)	320761.760	5305752.838
(B)	320765.940	5305748.395
(C)	320797.300	5305786.280
(D)	320801.479	5305781.838





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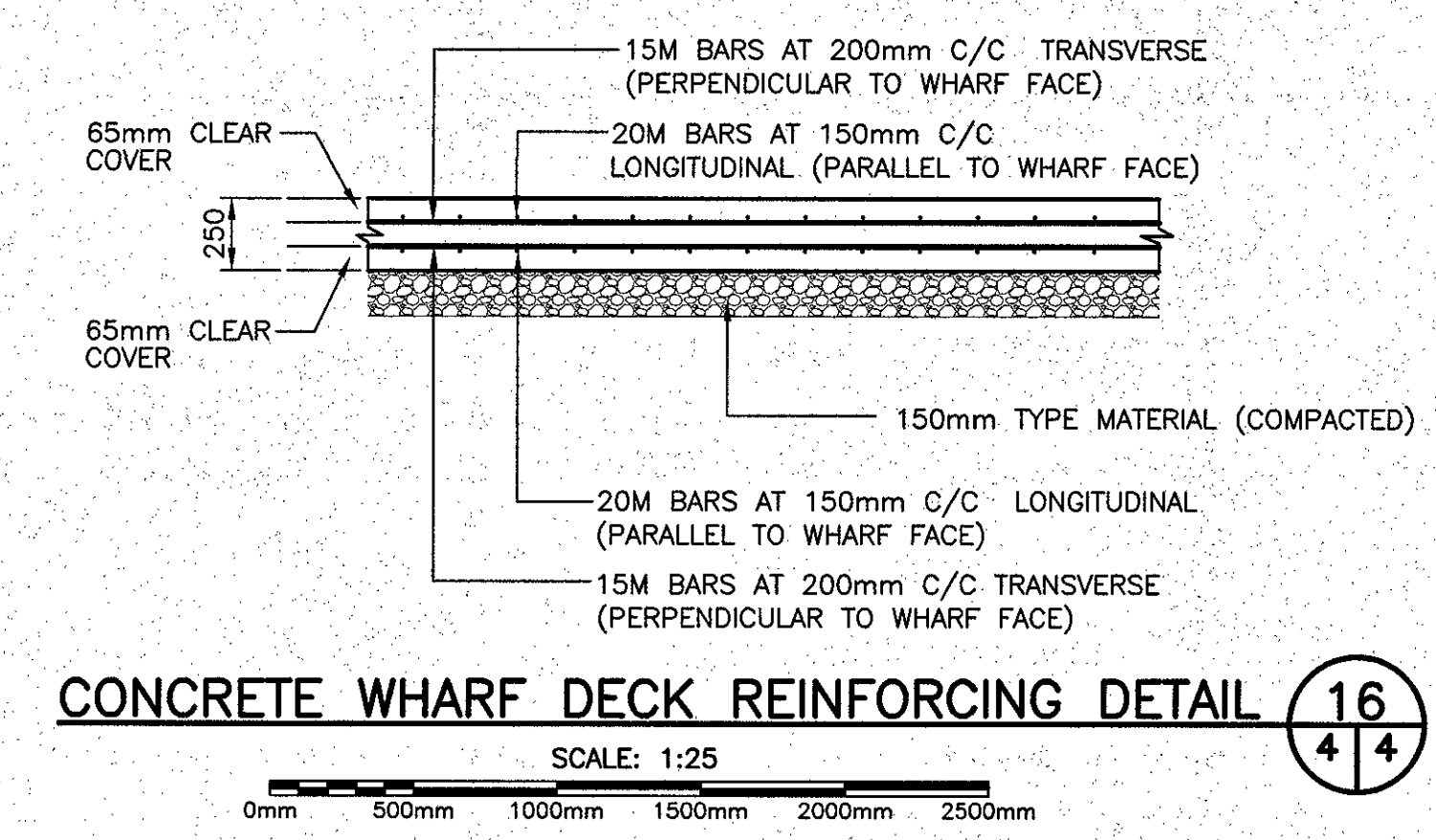
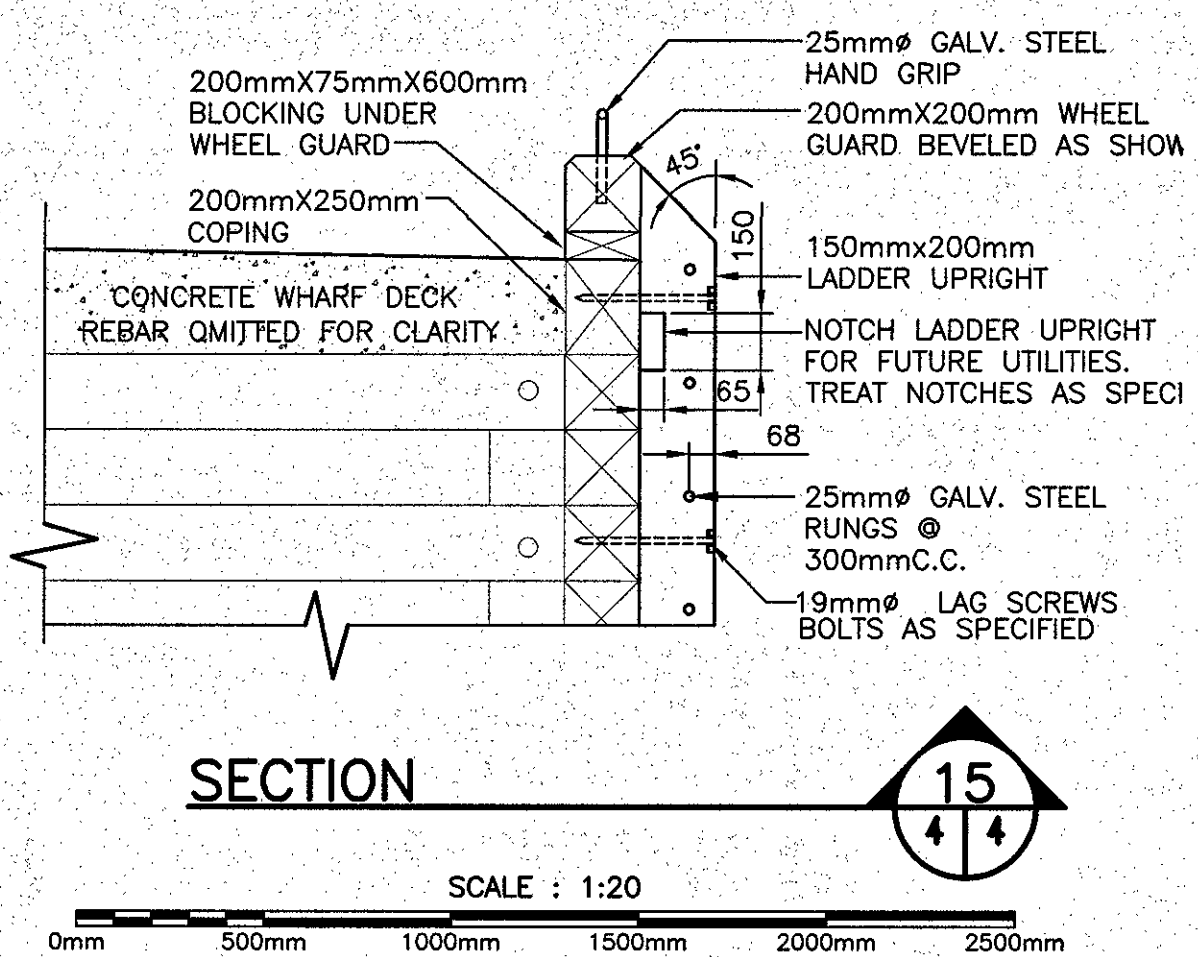
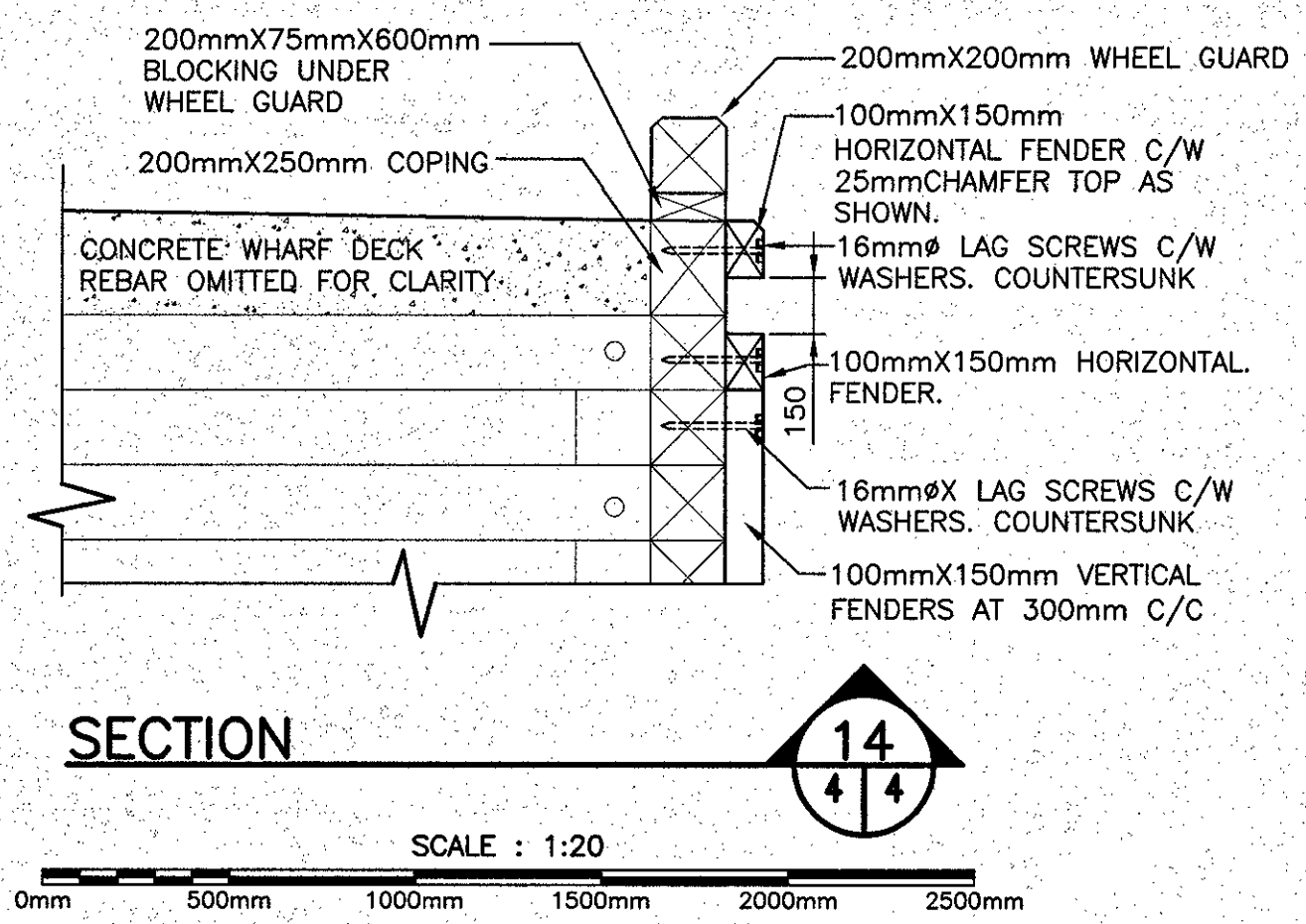
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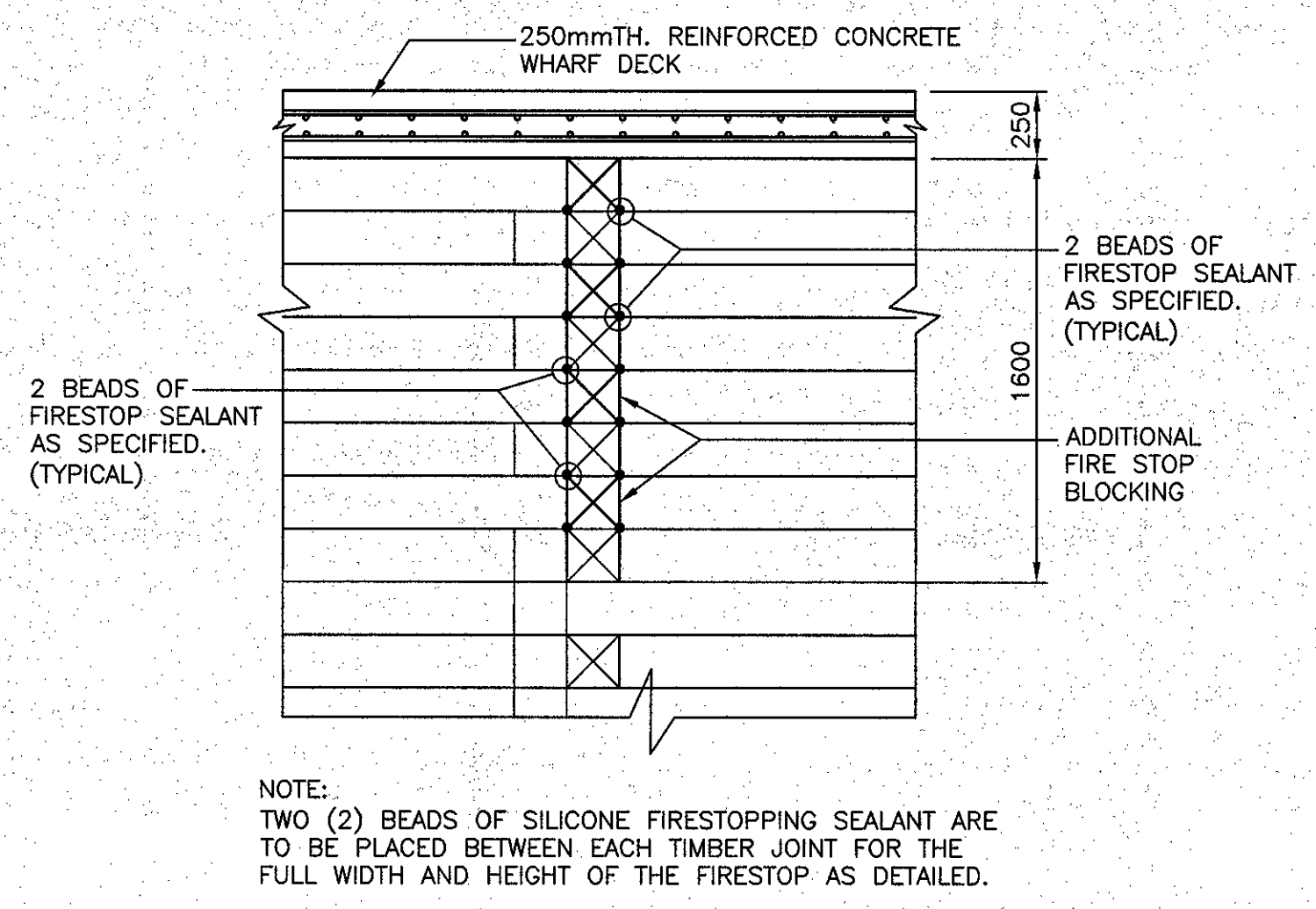
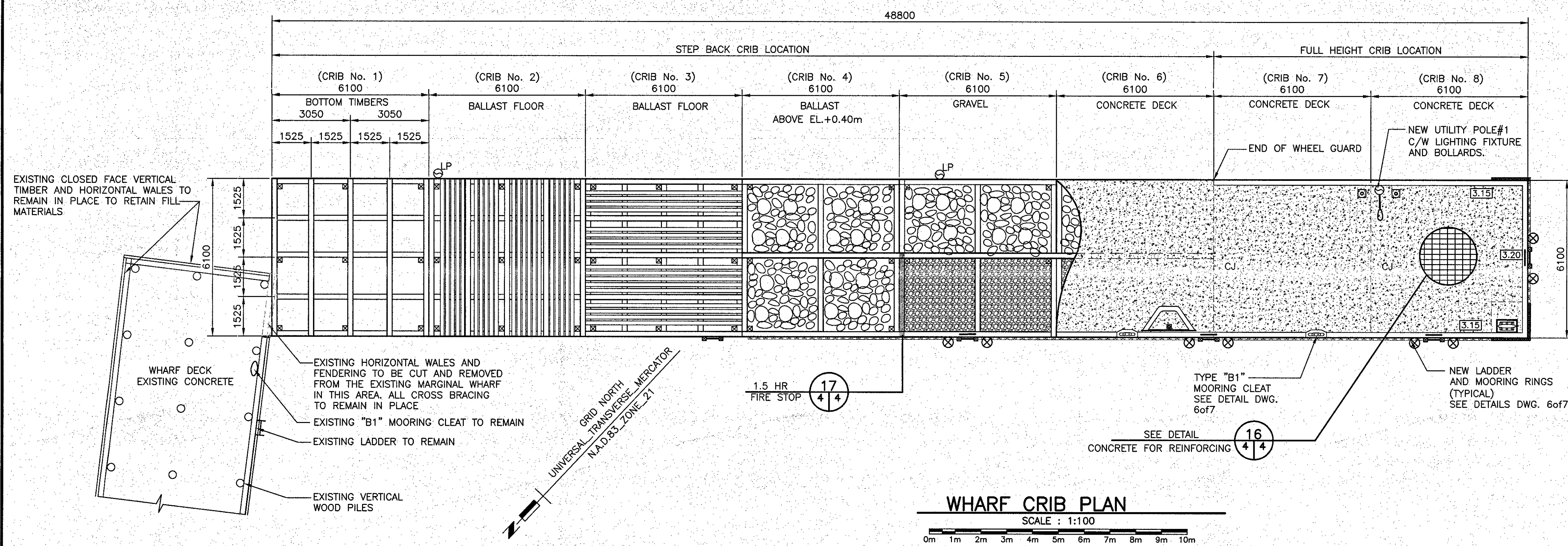
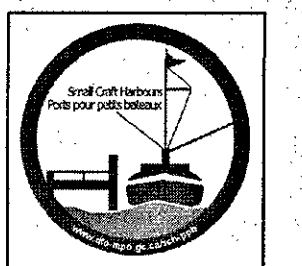
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revisions		date
project	<b>WHARF (#404) RECONSTRUCTION CODROY, NL.</b>	project
drawing	design	
designed	W.J. ANDERSON	conc.
date	JAN. 2017	
drawn	R.S.H	design
date	JAN. 2017	
approved		approve
date		
Tender	<i>Paul Curran</i>	Submission
DFO Project Manager		
project number	704074	no. du projet
drawing no.	3 of 7	no. du dessin

EDRM Document No. Not in System

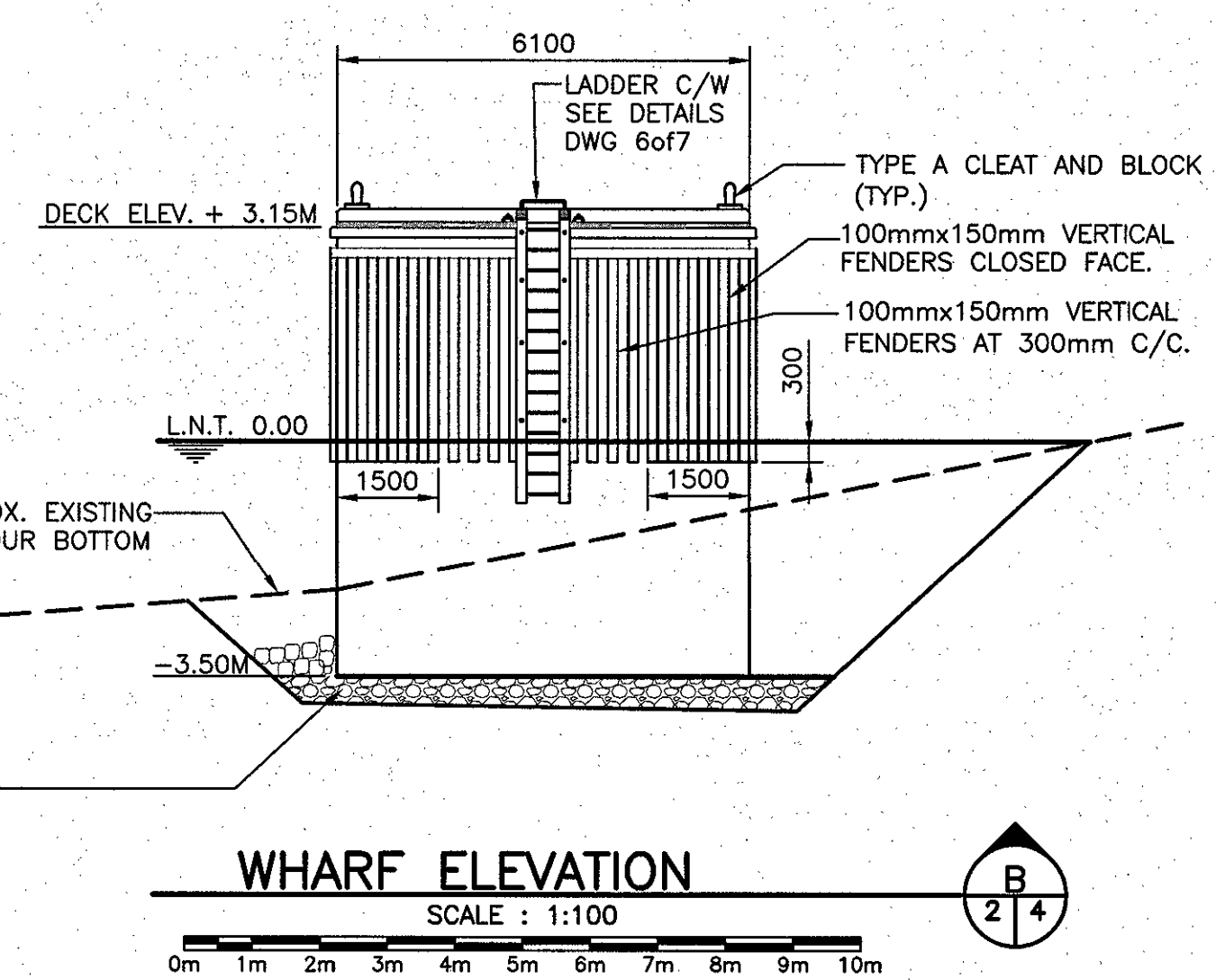
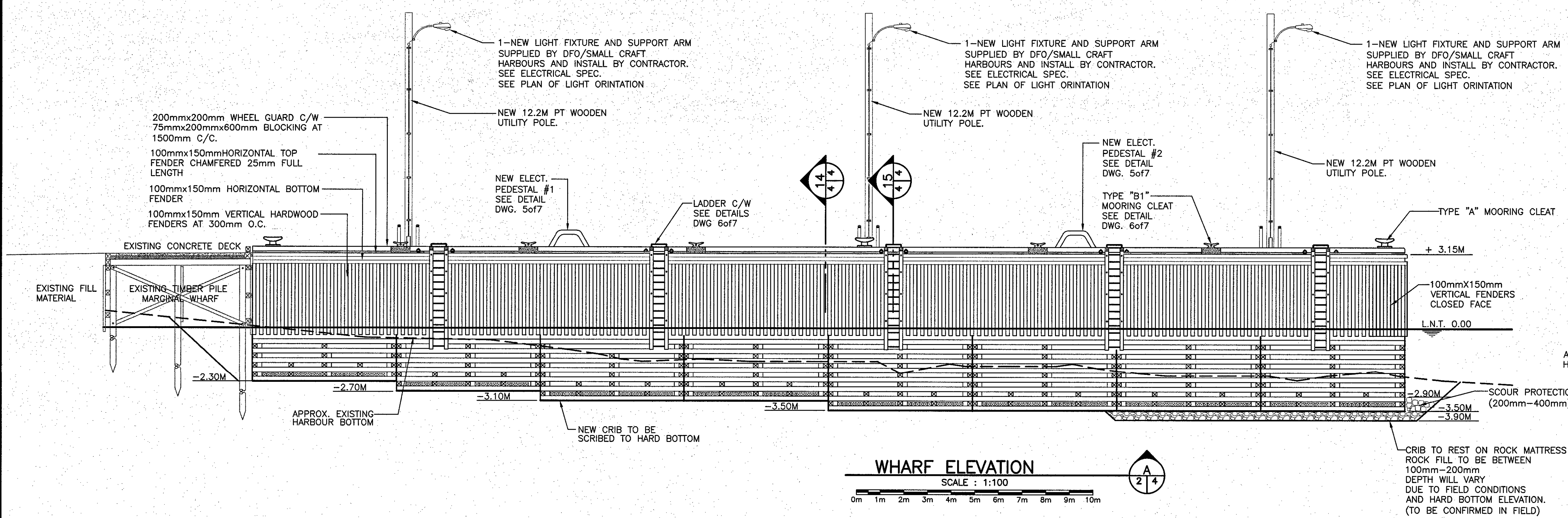
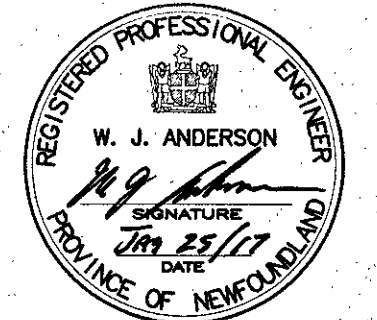




- NOTES:**
1. ALL DIMENSIONS IN MILLIMETERS.
  2. MINIMUM CONCRETE STRENGTH 35 MPa @28 DAYS
  3. REINFORCING STEEL YIELD STRENGTH 400 MPa
  4. REINFORCING STEEL SPLICES SHALL CONFORM TO A23.3, LATEST EDITION. REINFORCING STEEL TO BE LAPPED 900mm FOR LONGITUDINAL BARS. REINFORCING STEEL TO BE LAPPED 600mm FOR TRANSVERSE BARS
  5. ALL REBAR TO HAVE MIN. COVER OF 65mm.
  6. ALL MACHINE BOLTS 19mmØ (GALVANIZED)
  7. ALL DRIFT BOLTS TO BE 19mmØ (GALVANIZED)
  8. ALL LAG SCREWS TO BE GALVANIZED AND SIZED AS PER FOLLOWING:  
LADDER UPRIGHTS - 19mmØ FENDERING - 16mmØ
  9. CONTRACTOR TO VERIFY ALL FIELD MEASUREMENTS FOR REQUIRED CRIB TIMBER PRIOR TO ORDERING MATERIALS.
  10. ALL TIMBER TO BE PRESSURE TREATED.
  11. DECK DESIGN LOAD:  
CL-625 FOR NEW WHARF DECK STRUCTURE.
  12. NEW CRIB WORK TO BE SCRIBED TO HARD BOTTOM OR ROCK MATTRESS AS INDICATED ON DRAWINGS.
  13. CONTRACTOR TO VERIFY ALL DIMENSIONS AND ALL EXISTING SITE CONDITIONS IN THE FIELD. ALL ERRORS AND UNSATISFACTORY CONDITIONS TO BE REPORTED TO THE DEPARTMENTAL REPRESENTATIVE.
  14. THE CONTRACTOR SHALL VISIT THE SITE AND BECOME FAMILIAR WITH THE EXISTING CONDITIONS PRIOR TO BIDDING THIS PROJECT. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO INFORM THE DEPARTMENTAL REPRESENTATIVE IN WRITING OF ANY DISCREPANCIES BETWEEN EXISTING CONDITIONS AND THE PROJECT DRAWINGS.

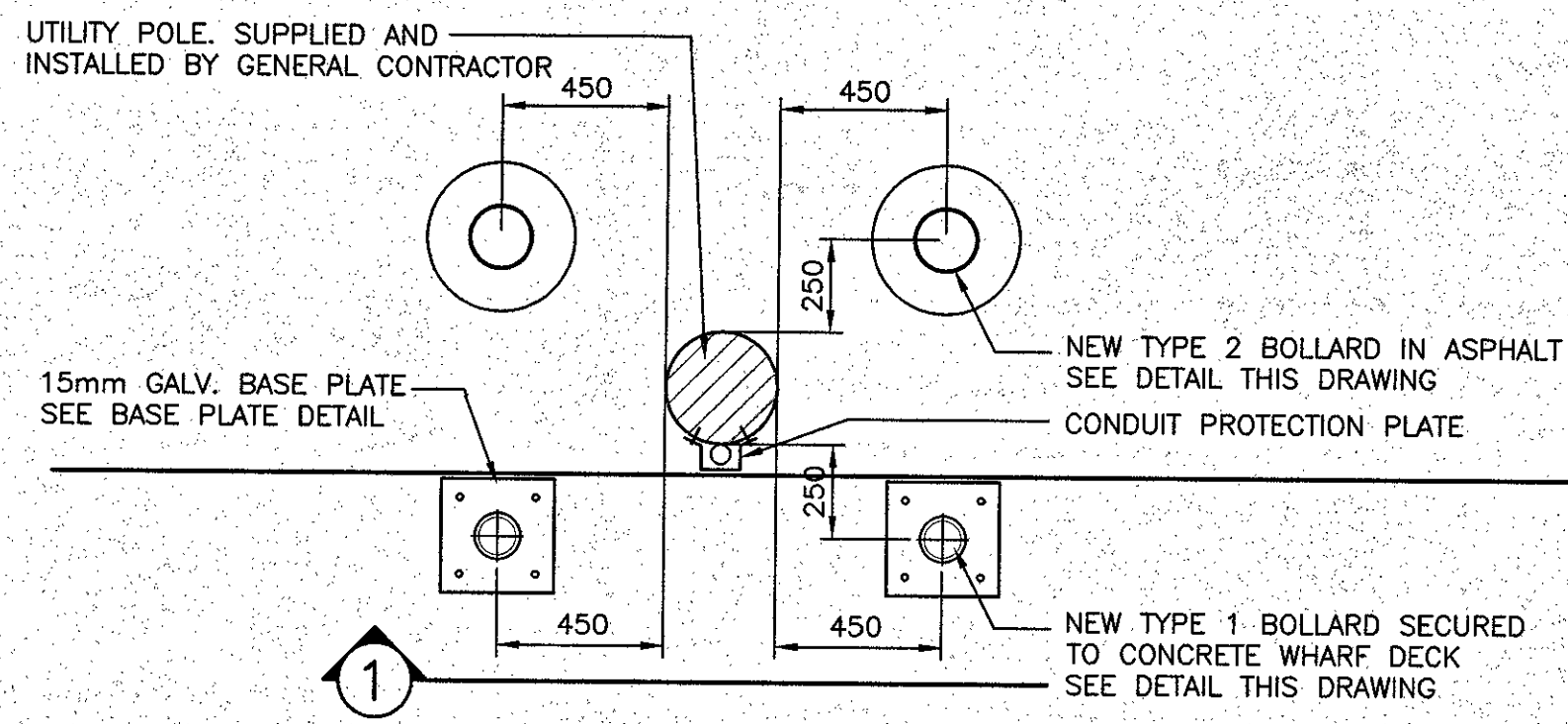


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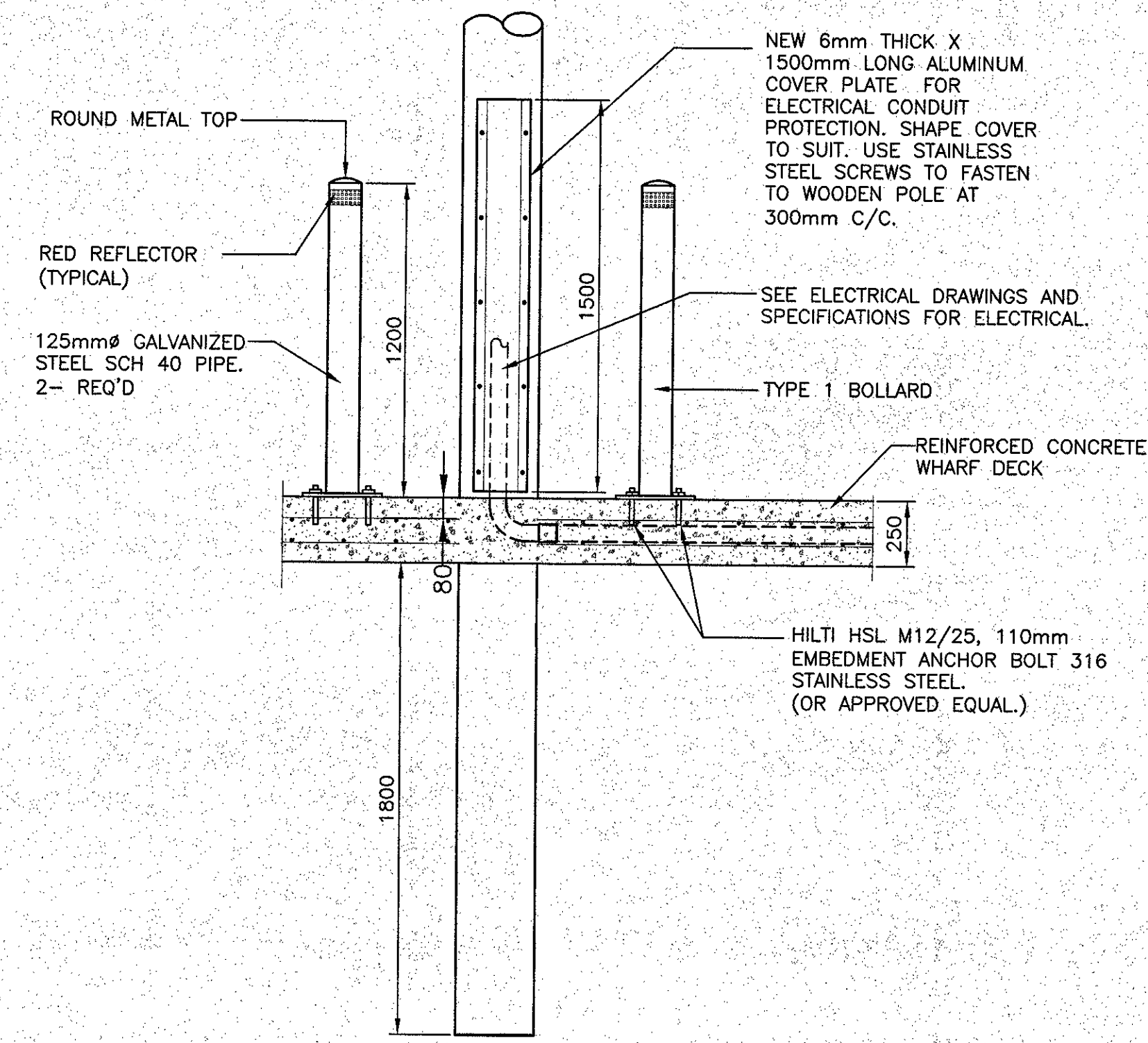


0	ISSUED FOR TENDER	25/01/17
revisions		date
project	WHARF (#404) RECONSTRUCTION CODROY, NL.	project
drawing	WHARF CRIB PLAN, WHARF ELEVATIONS AND DETAILS	design
designed	W.J. ANDERSON	concu
date	JAN. 2017	
drawn	R.S.H.	designer
date	JAN. 2017	
approved		approve
date		
Tender	Paul Curran	Submission
DFO Project Manager		
project number	704074	no. du projet
drawing no.	4 of 7	no. du dessin





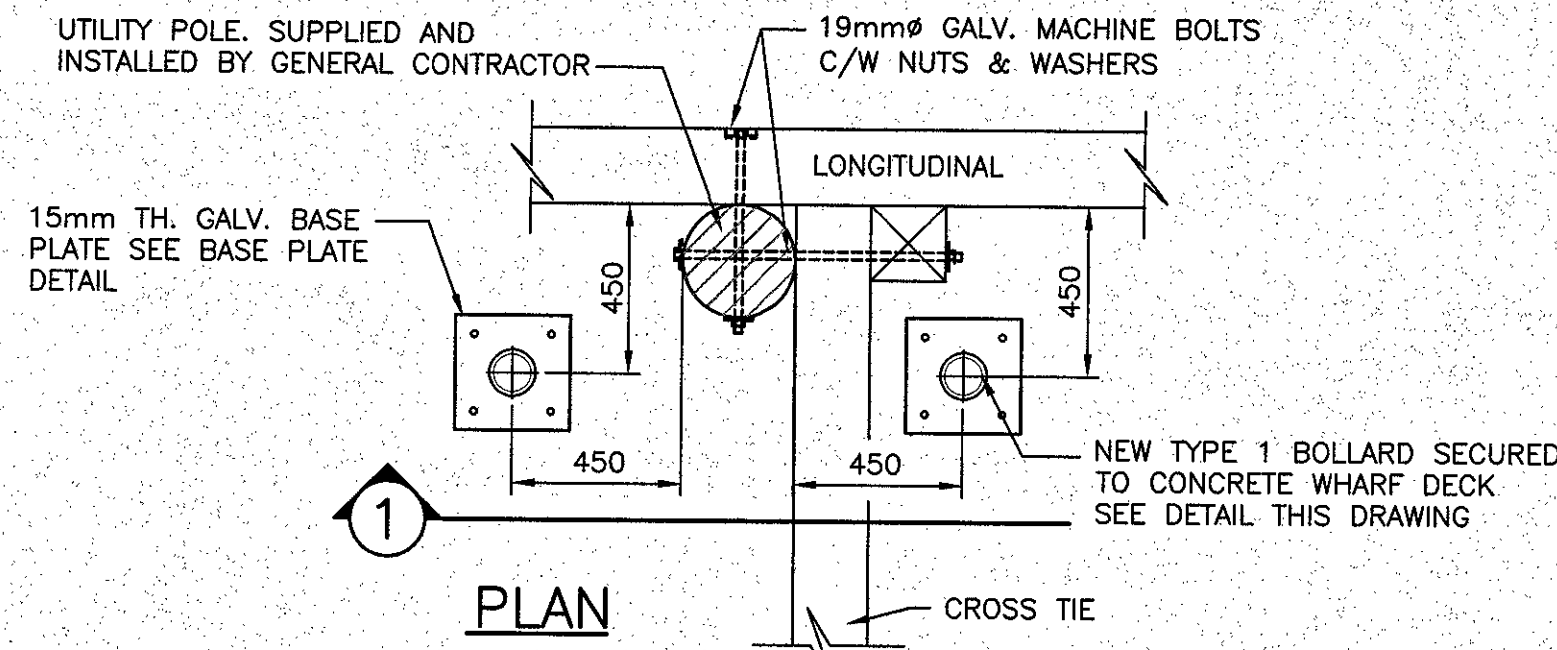
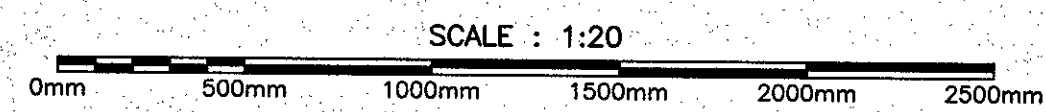
PLAN



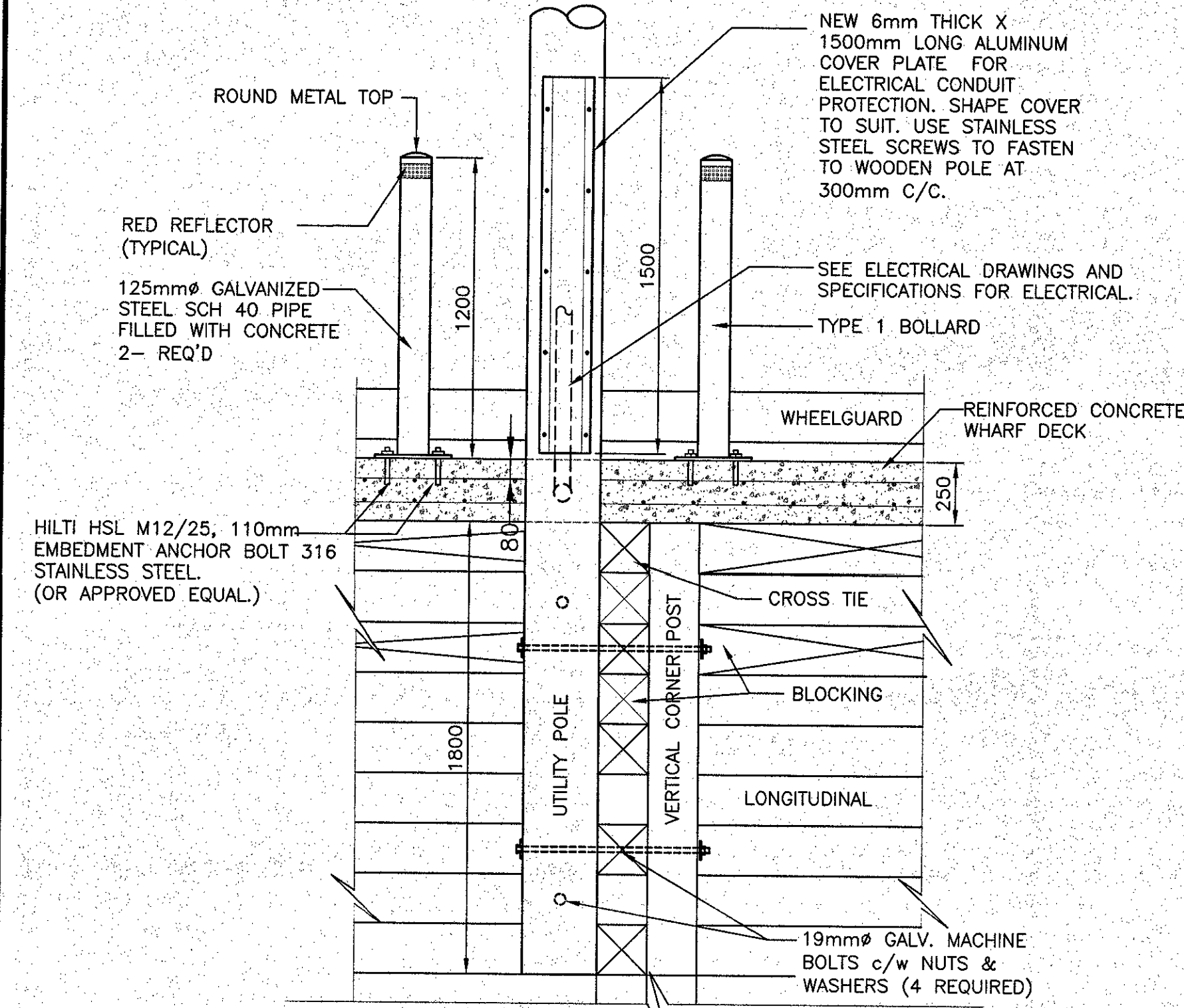
SECTION 1

BOLLARD DETAIL AT UTILITY POLE (TYPE 1 BOLLARD)

8  
2/5



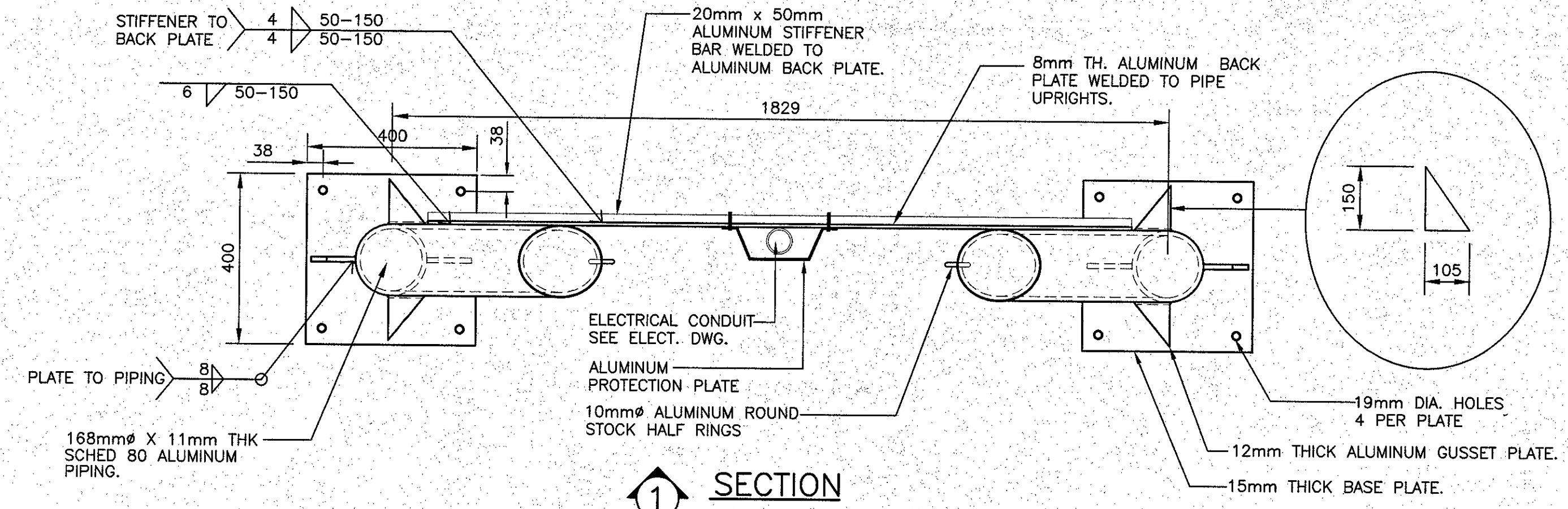
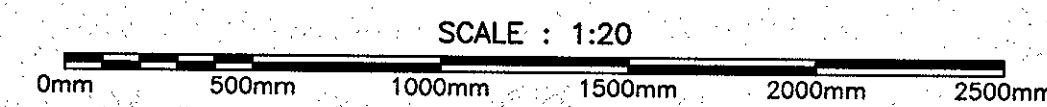
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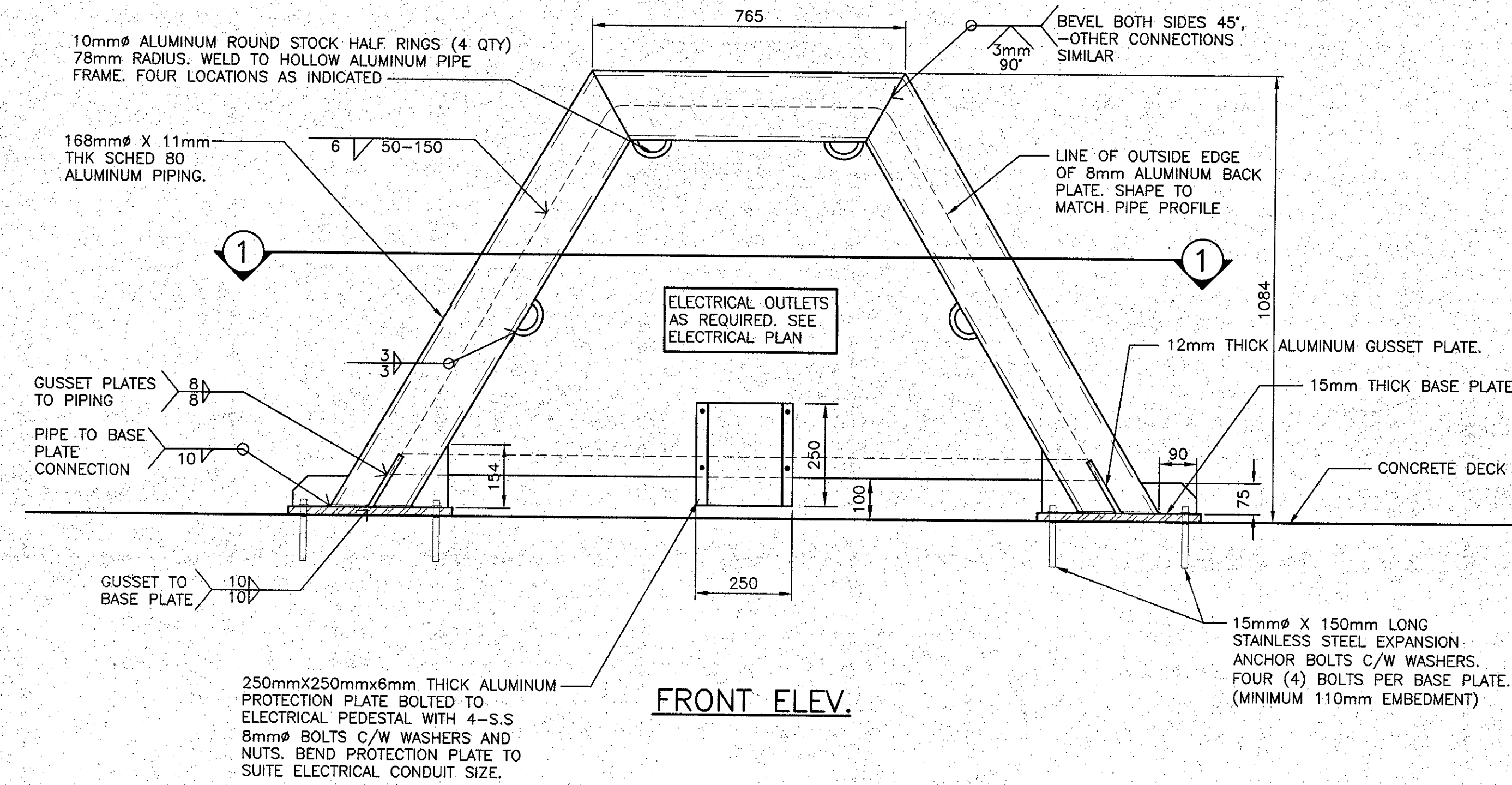
SECTION 1

FASTENING DETAIL FOR UTILITY POLE INSIDE CRIBWORK

9  
2/5



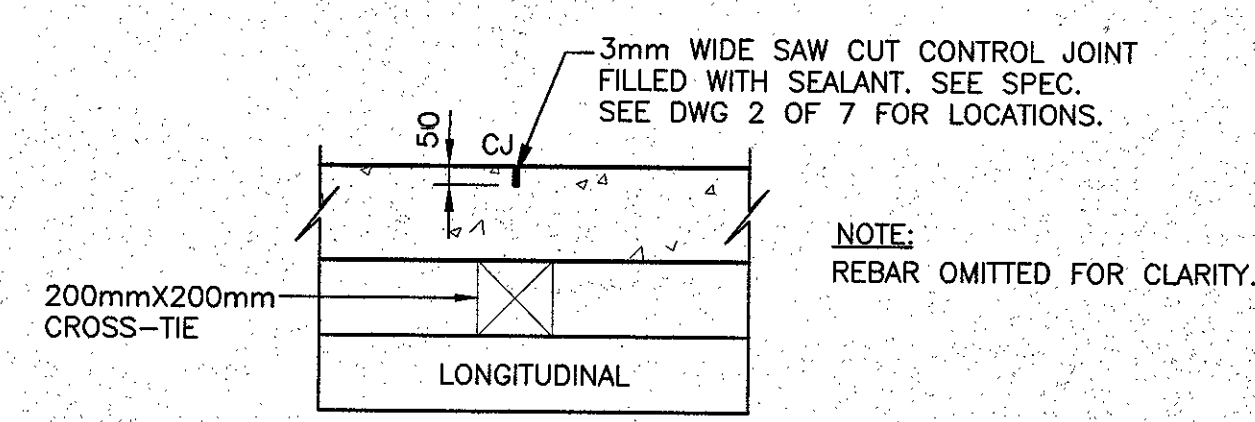
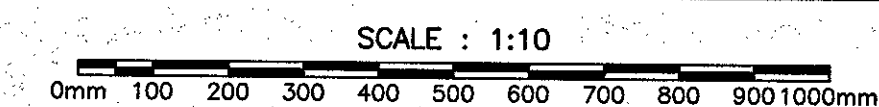
SECTION 1



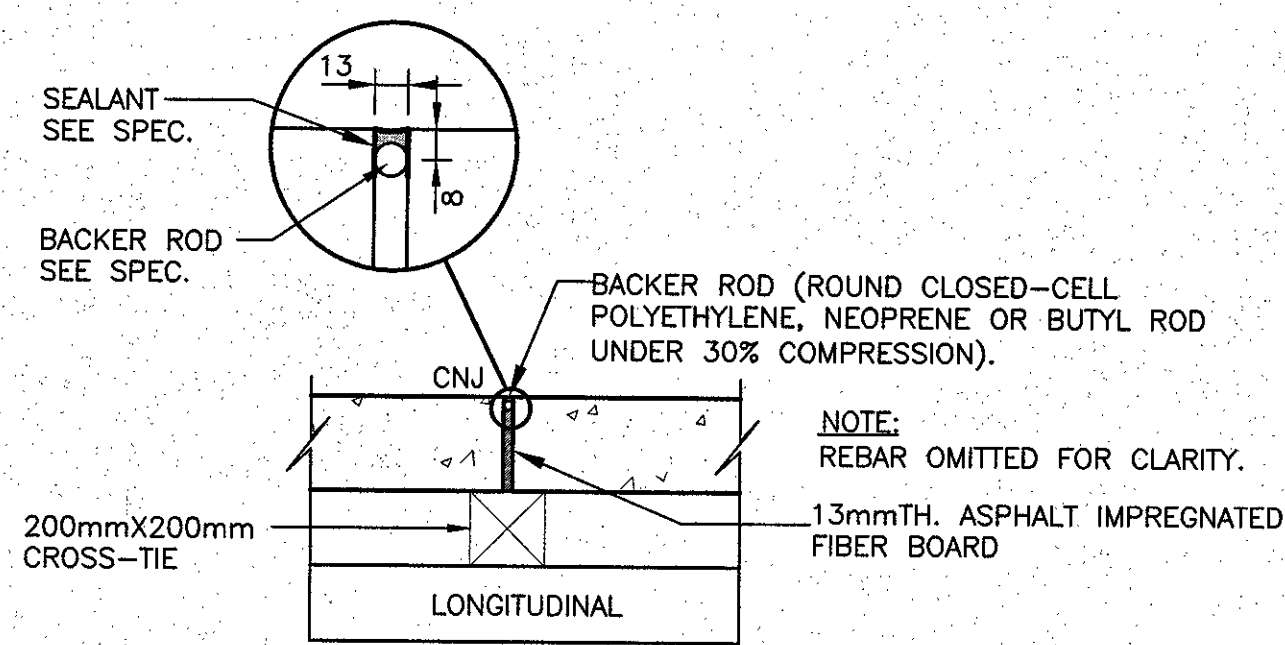
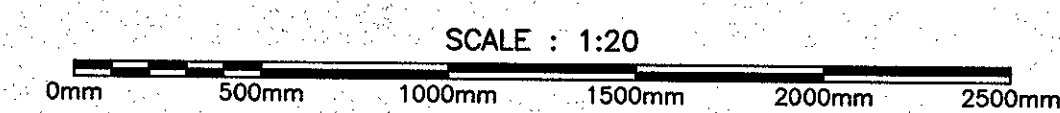
FRONT ELEV.

ELECTRICAL PEDESTAL DETAIL

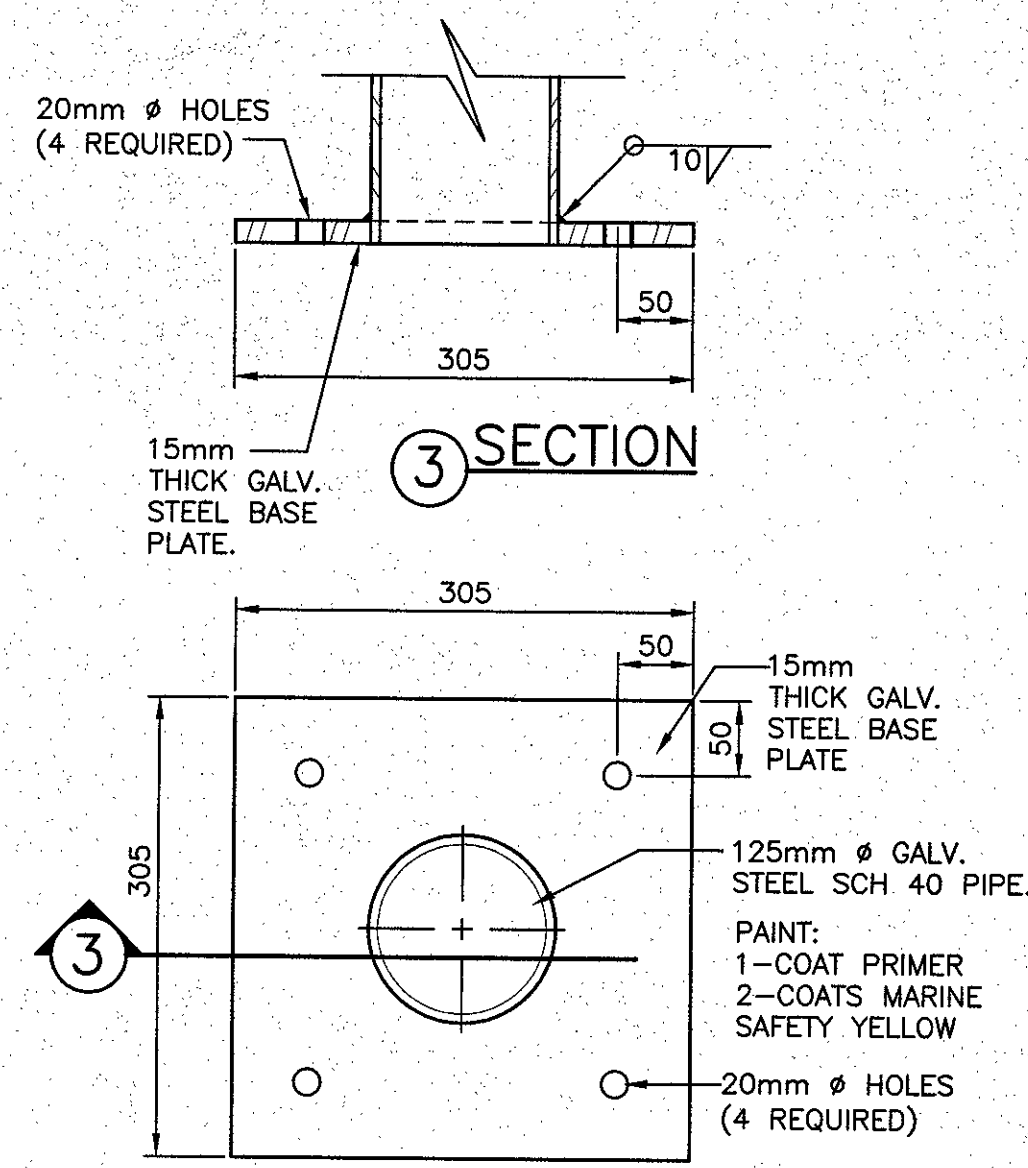
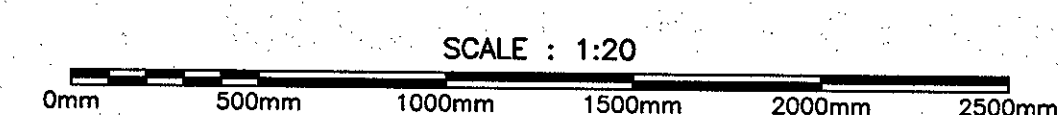
13  
5/11



TYPICAL CONTROL JOINT DETAIL

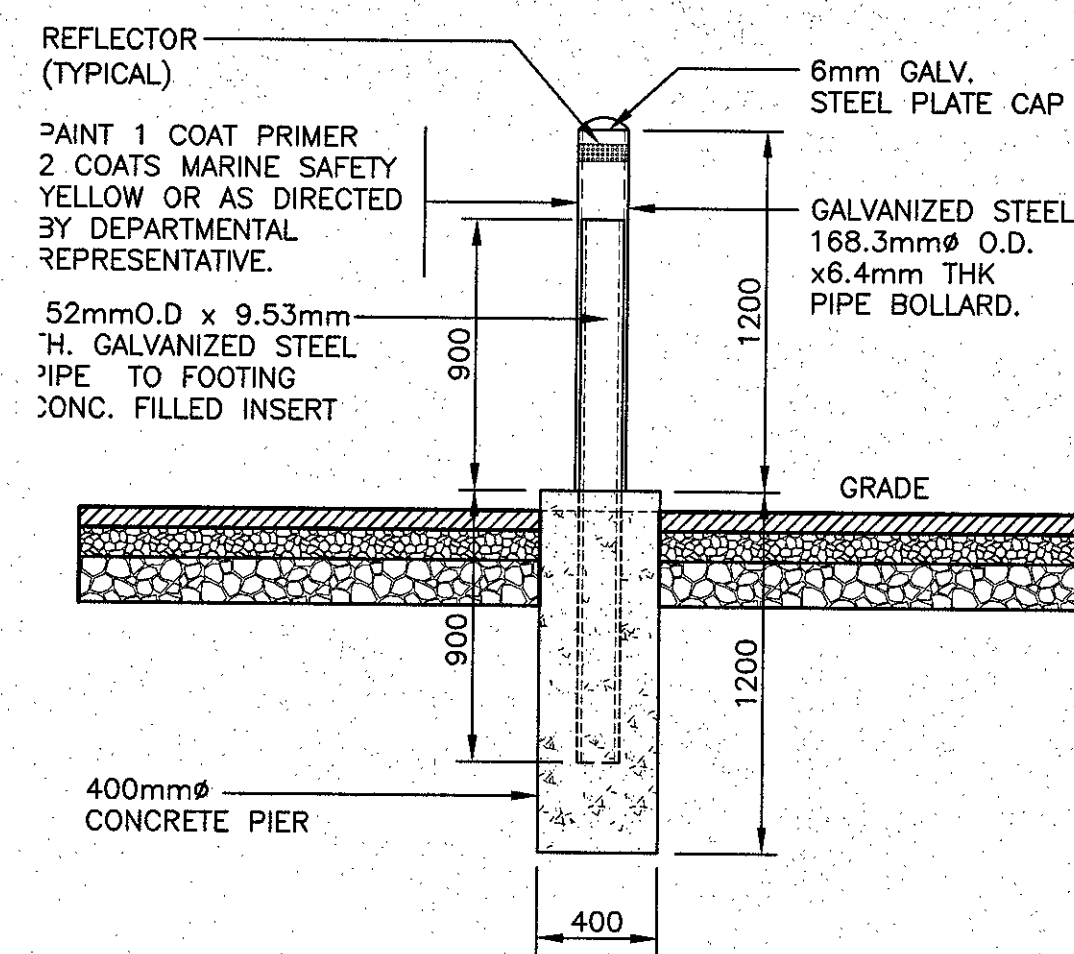
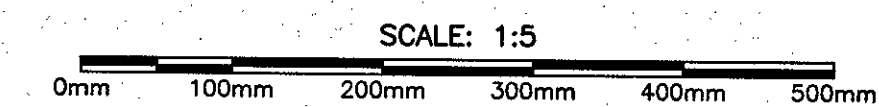


TYPICAL CONSTRUCTION JOINT DETAIL

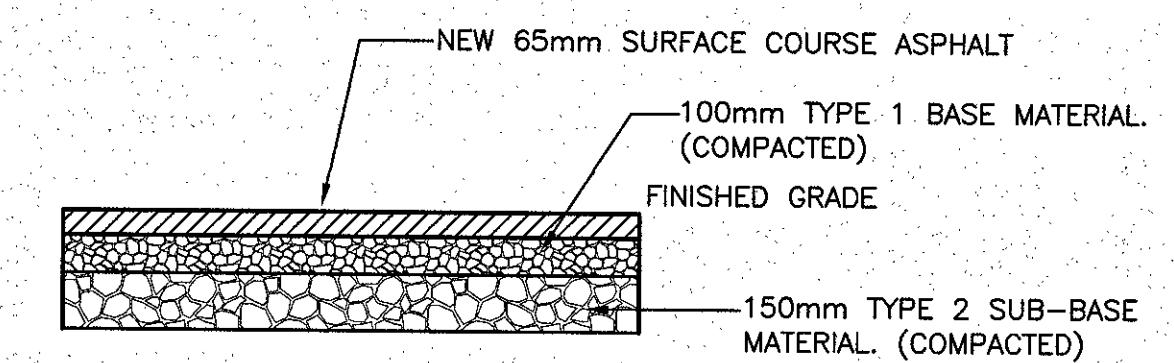
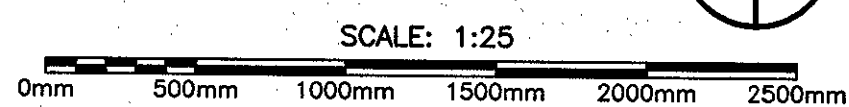


SECTION 3

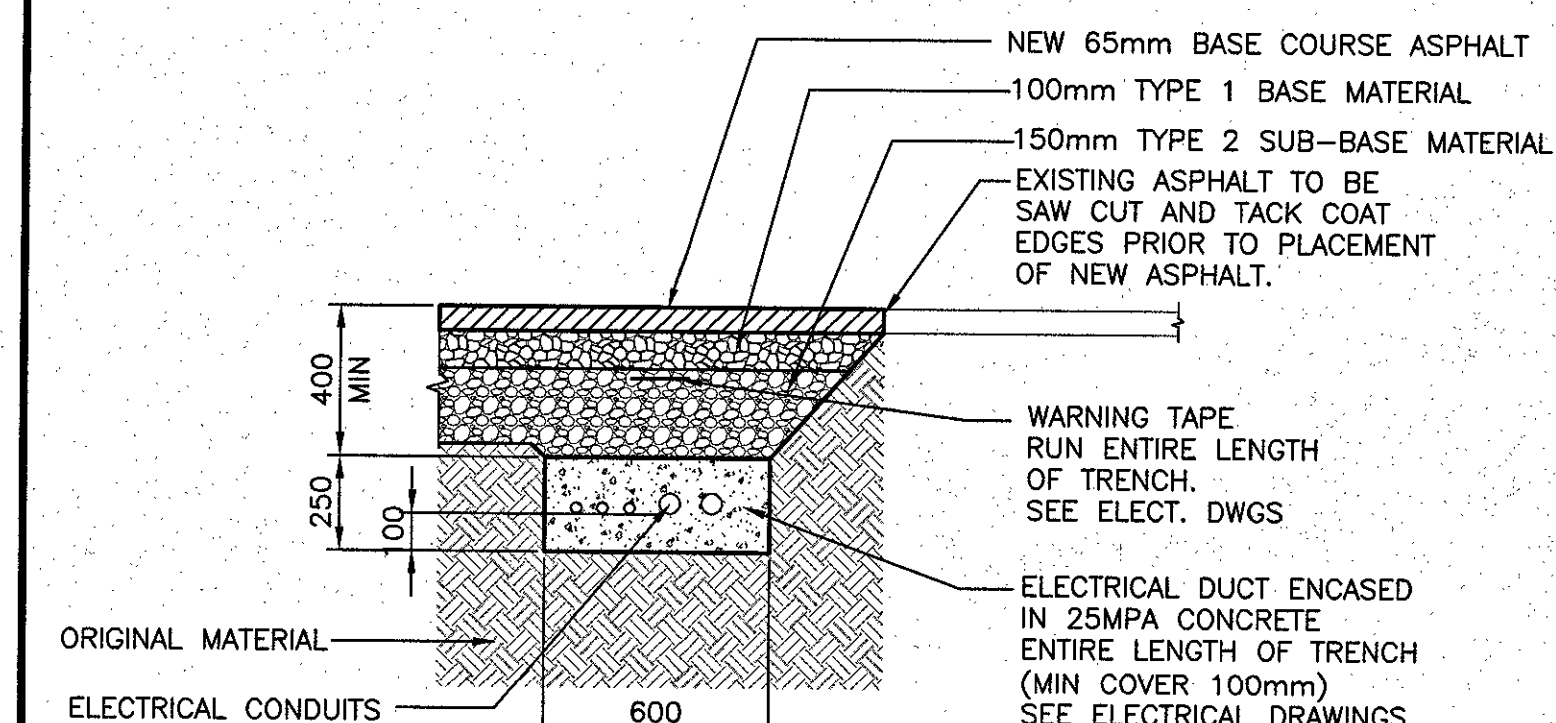
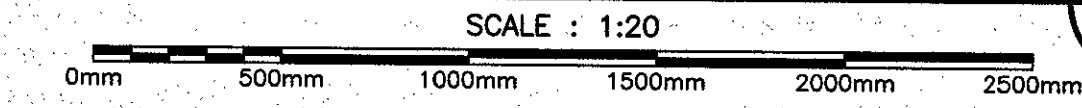
BOLLARD BASE PLATE DETAIL (TYPE 1 BOLLARD)



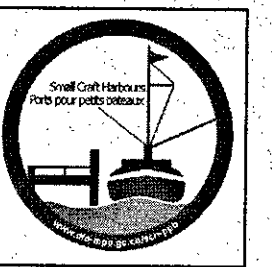
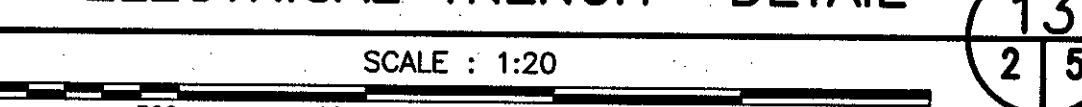
BOLLARD DETAIL (TYPE 2 BOLLARD)



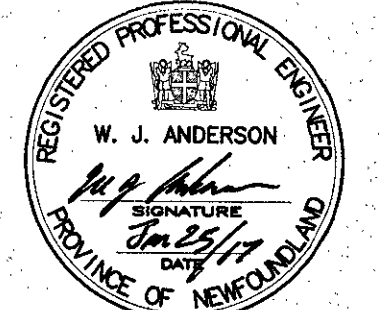
PARKING LOT SECTION DETAIL



ELECTRICAL TRENCH DETAIL



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Permit No. 06 issued by APECEN 06092...  
which is valid for the year 2012.



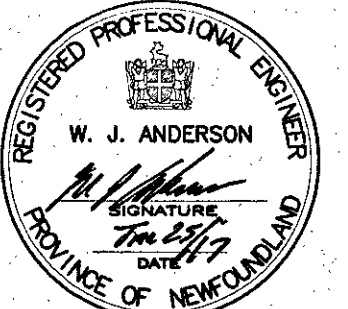
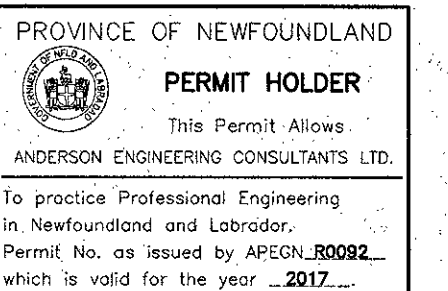
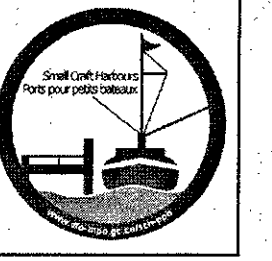
0	ISSUED FOR TENDER	25/11/17
revisions	date	project

WHARF (#404) RECONSTRUCTION CODROY, NL.

MISC. DETAILS

designed	W.J. ANDERSON	concu
date	JAN. 2017	
drawn	R.S.H	dessine
date	JAN. 2017	
approved		approve
date		
Tender		Submission
DFO Project Manager		
project number	704074	no. du projet
drawing no.	5 of 7	no. du dessin





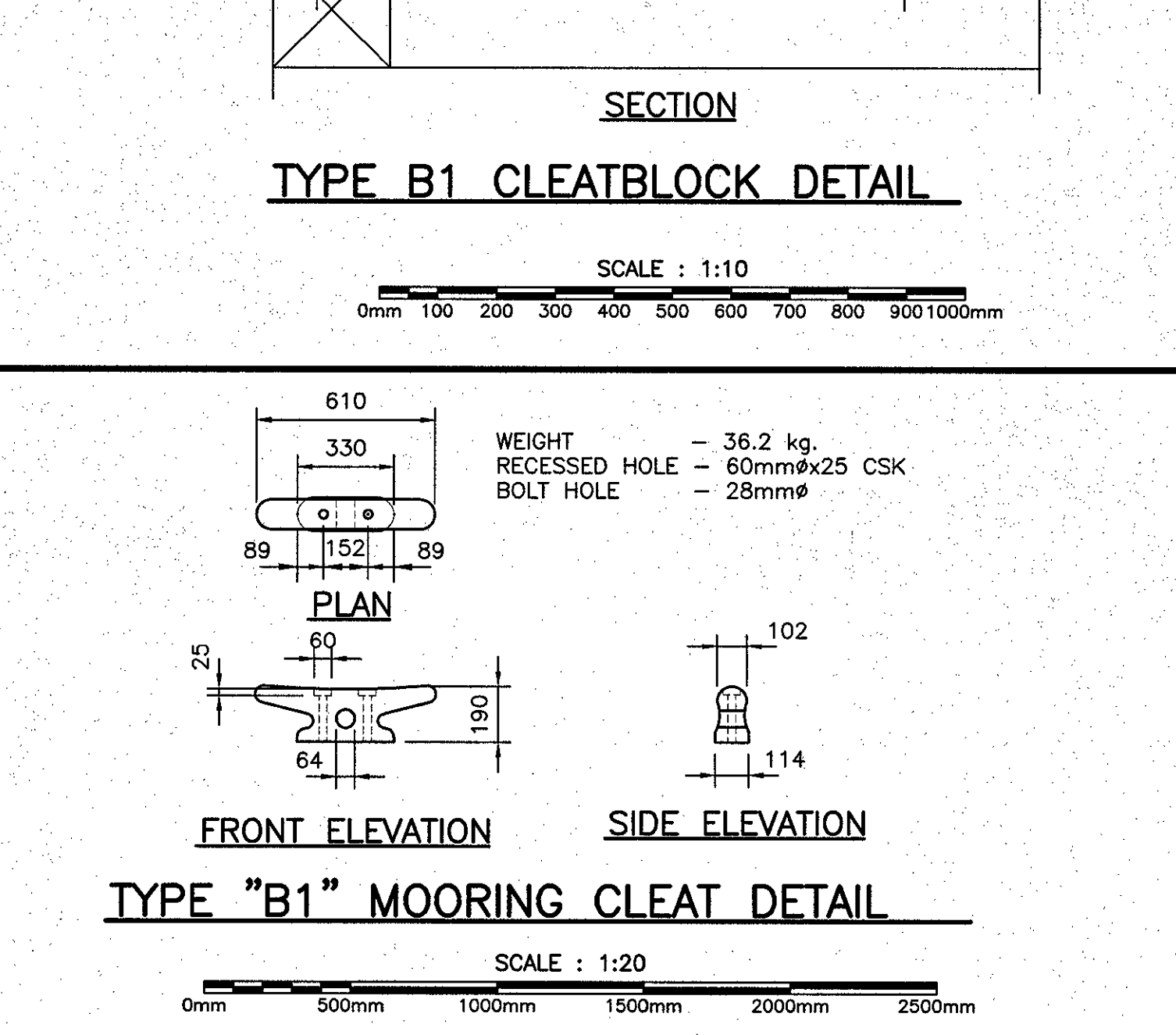
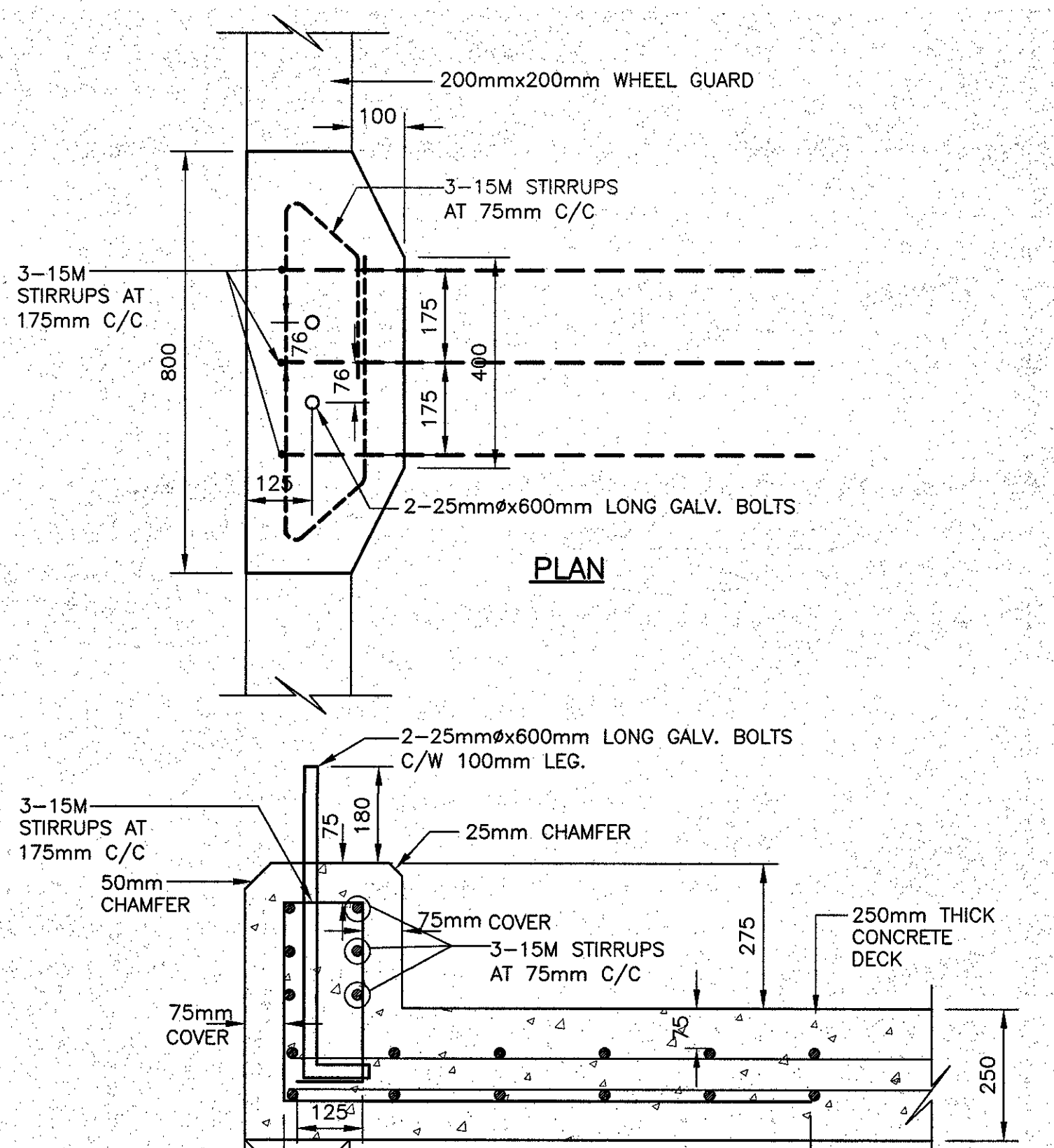
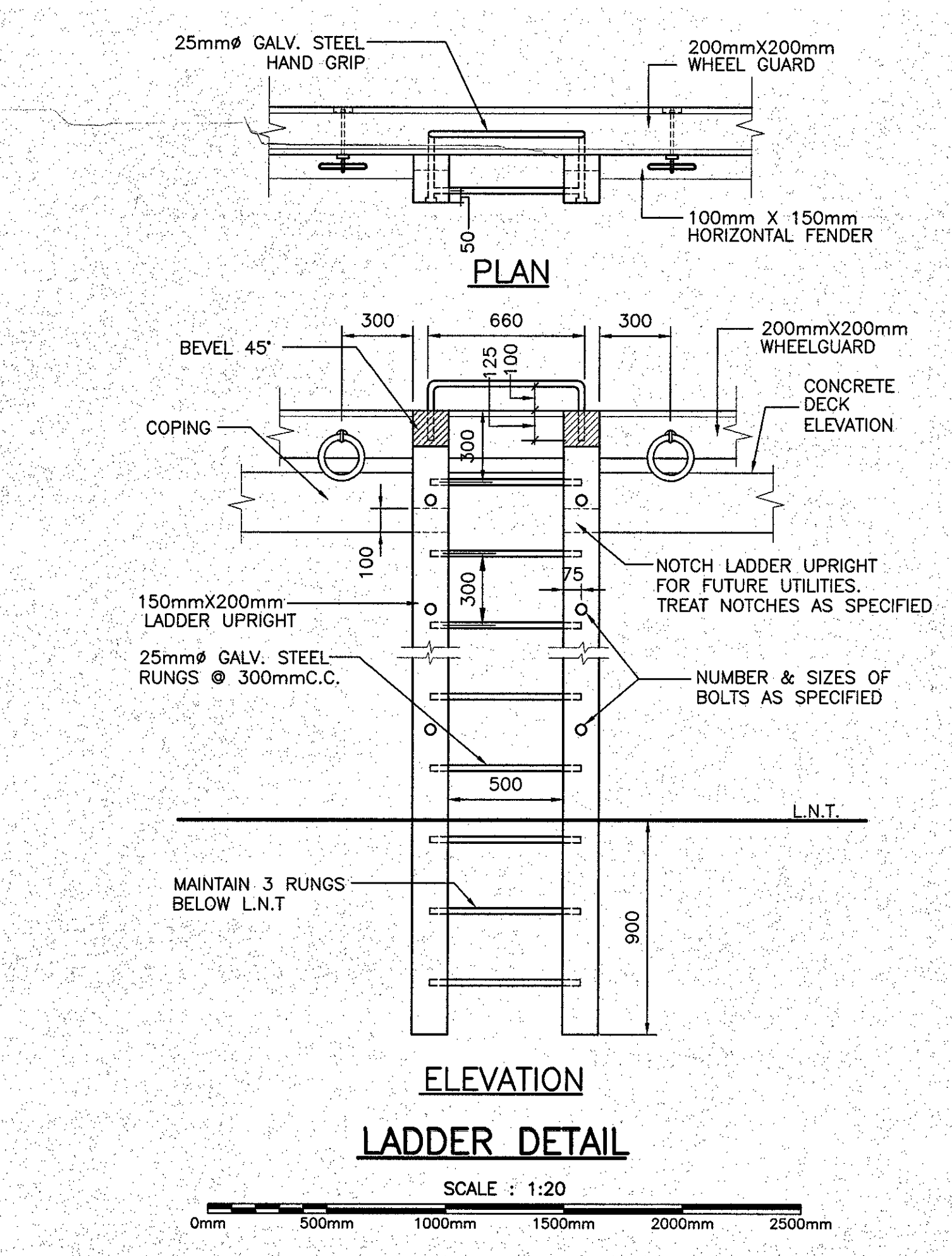
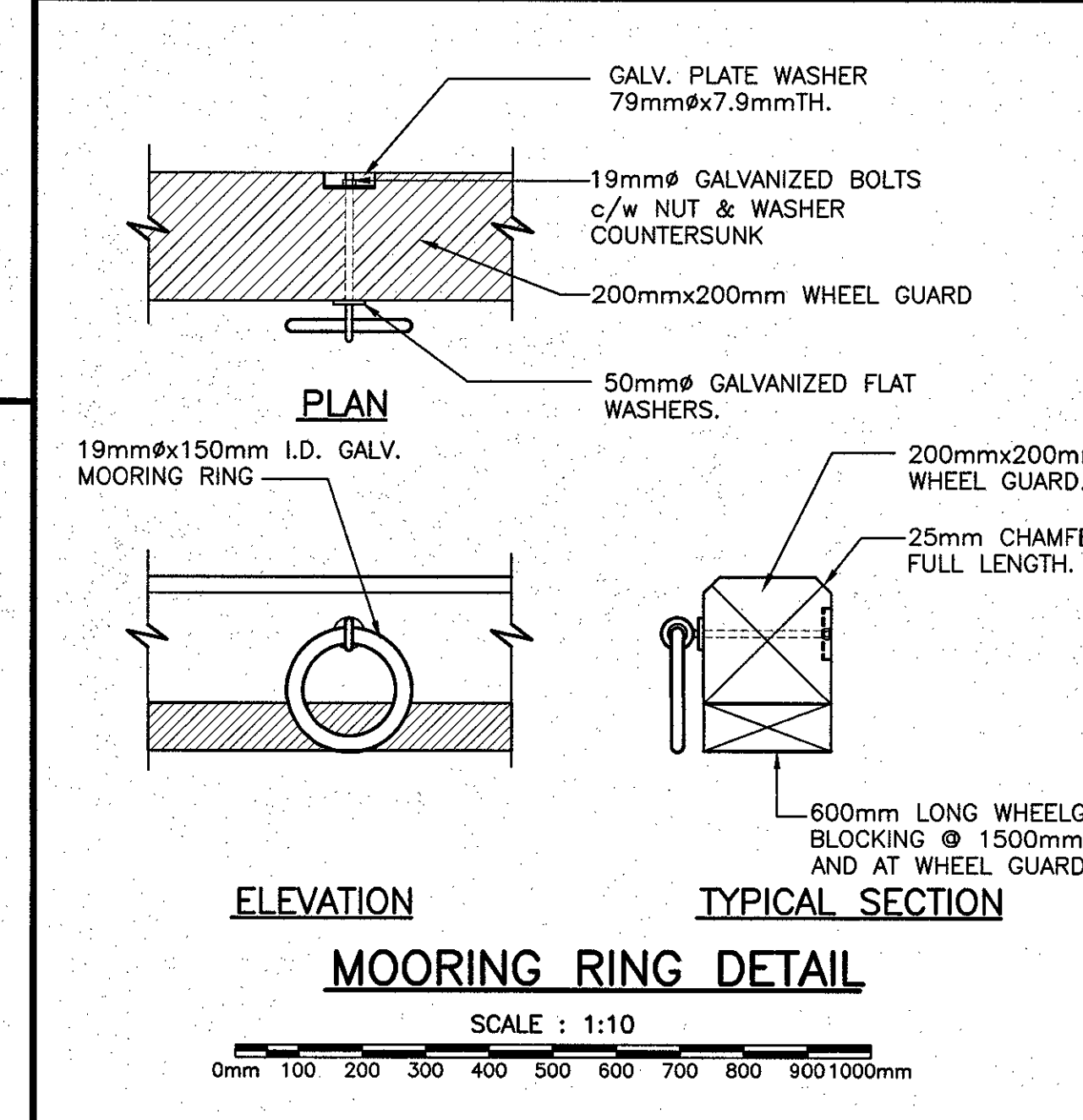
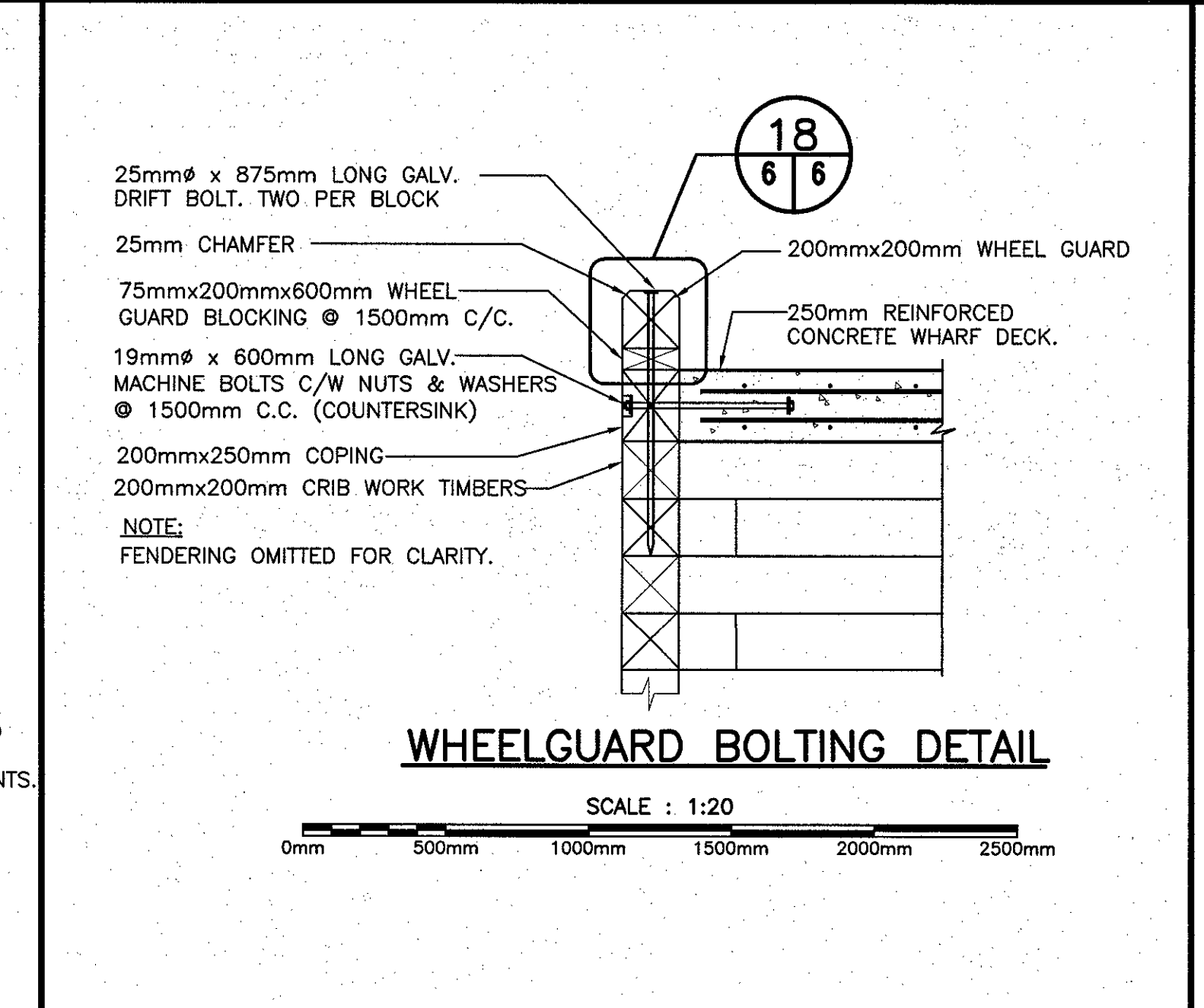
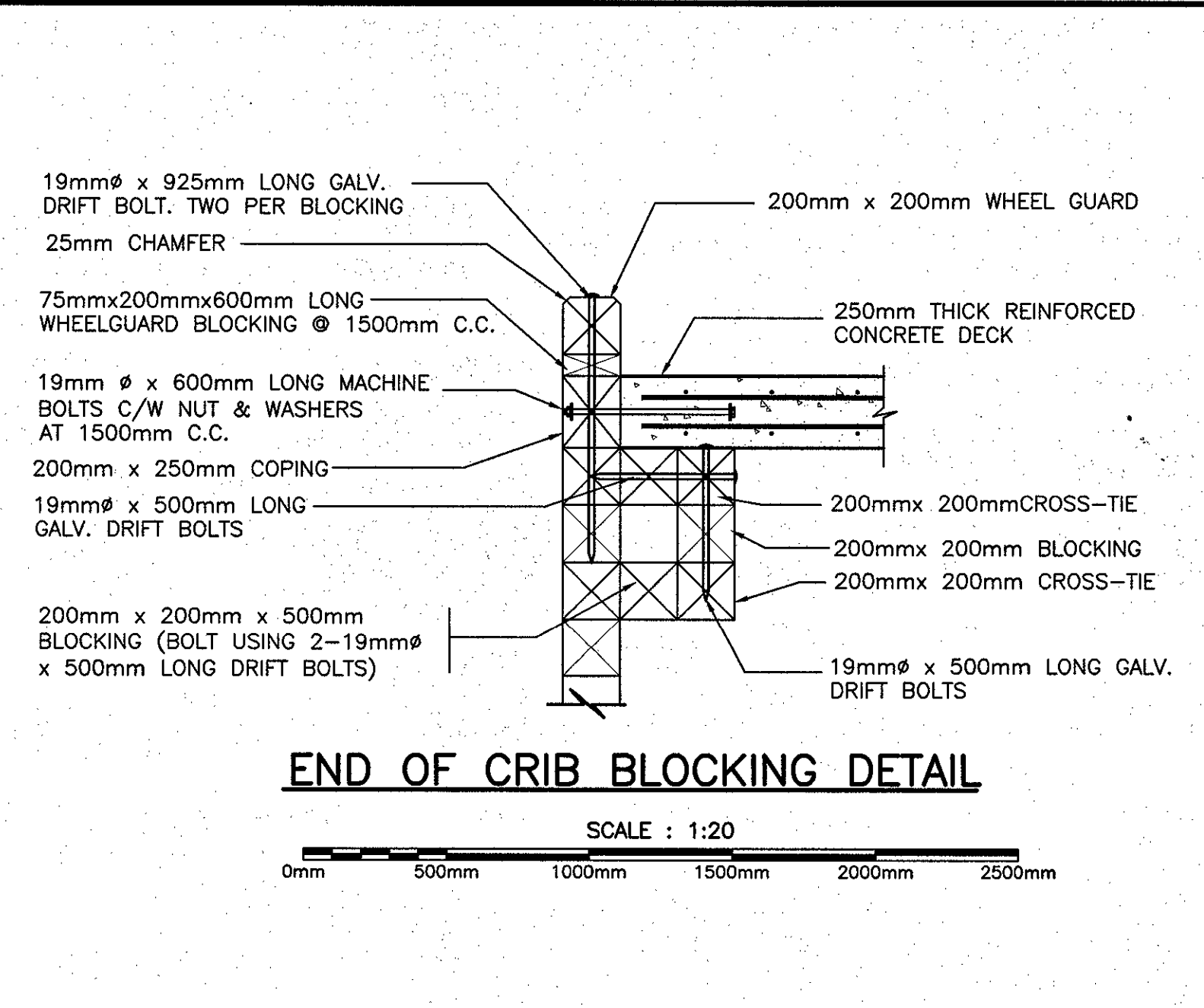
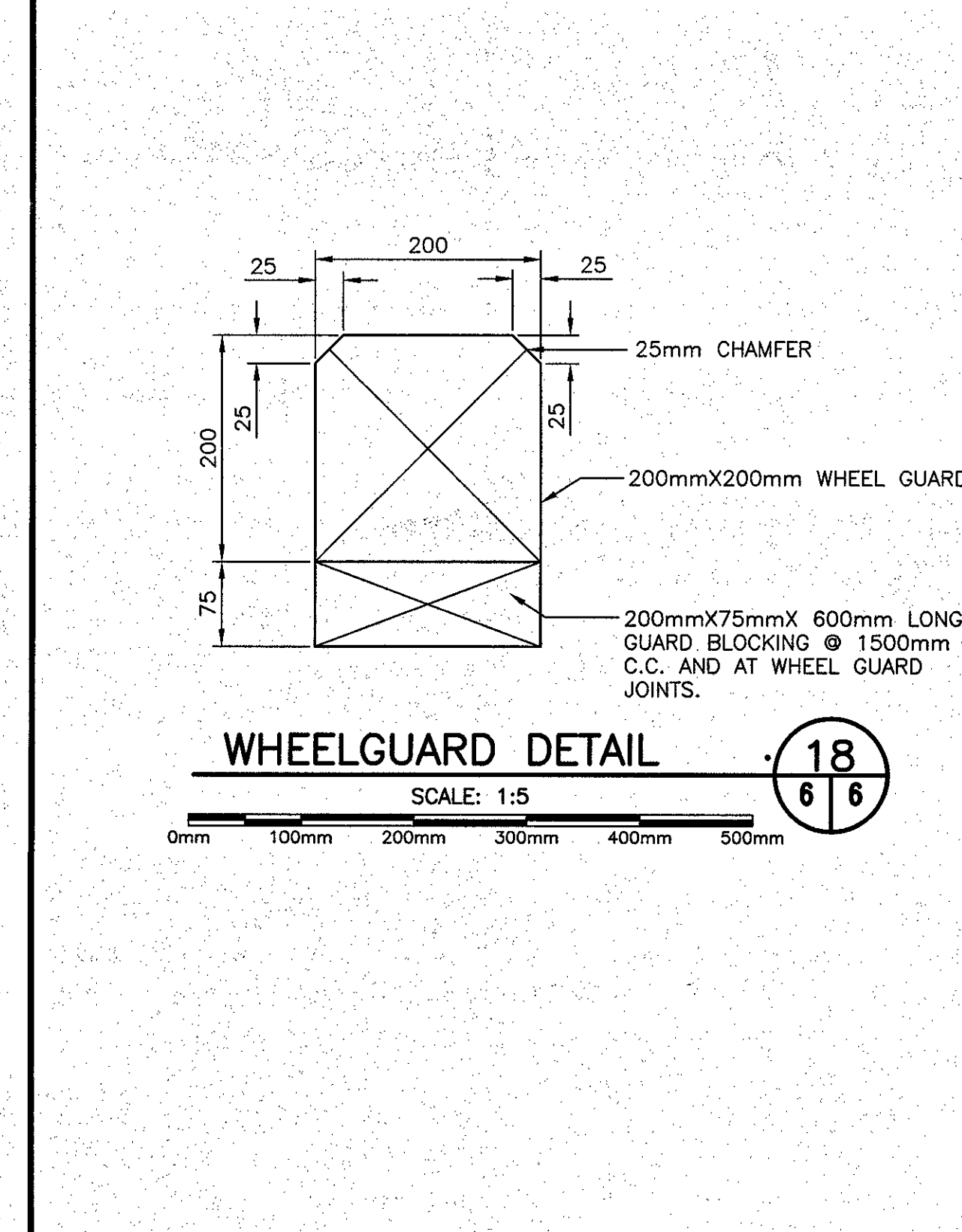
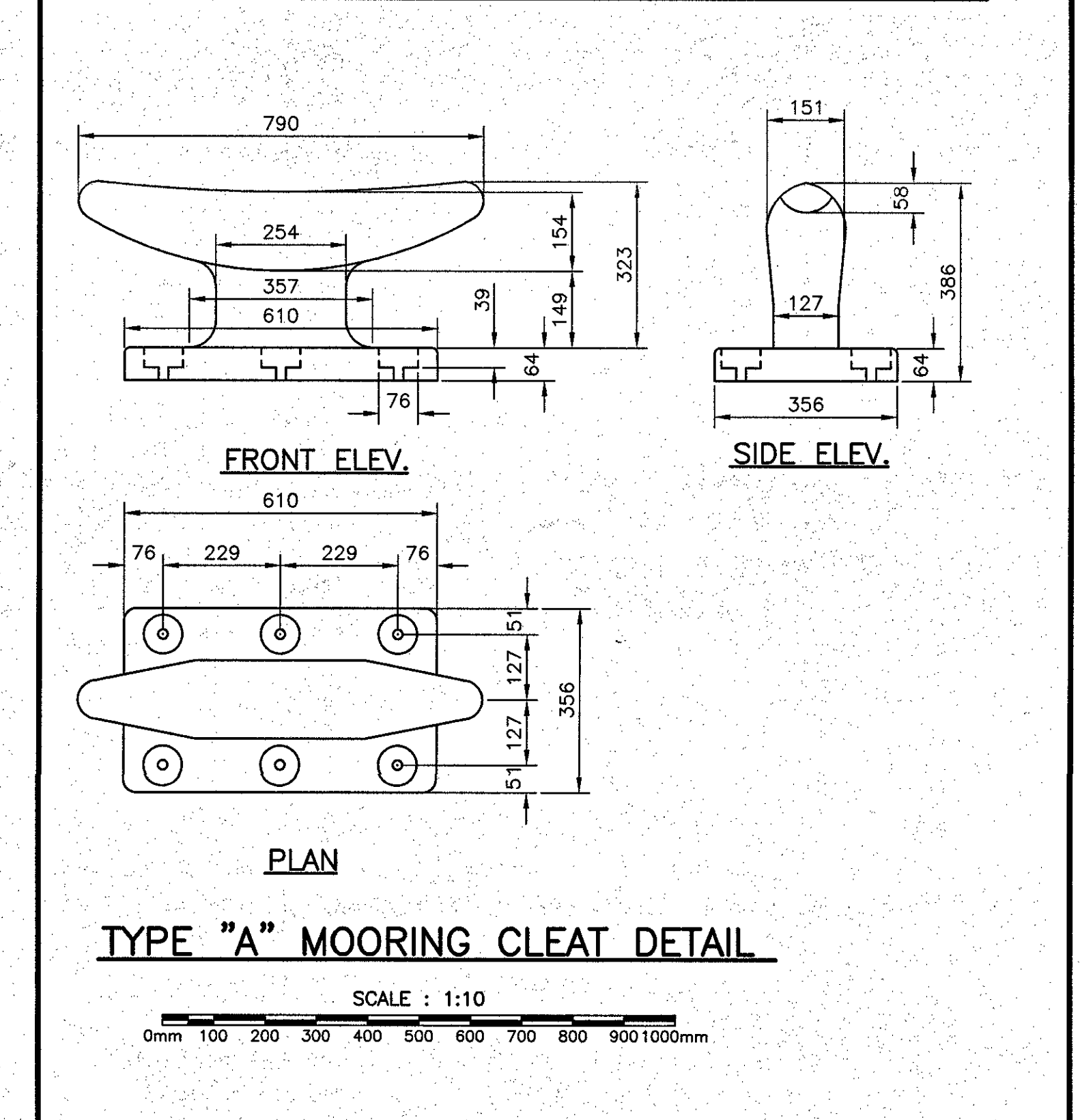
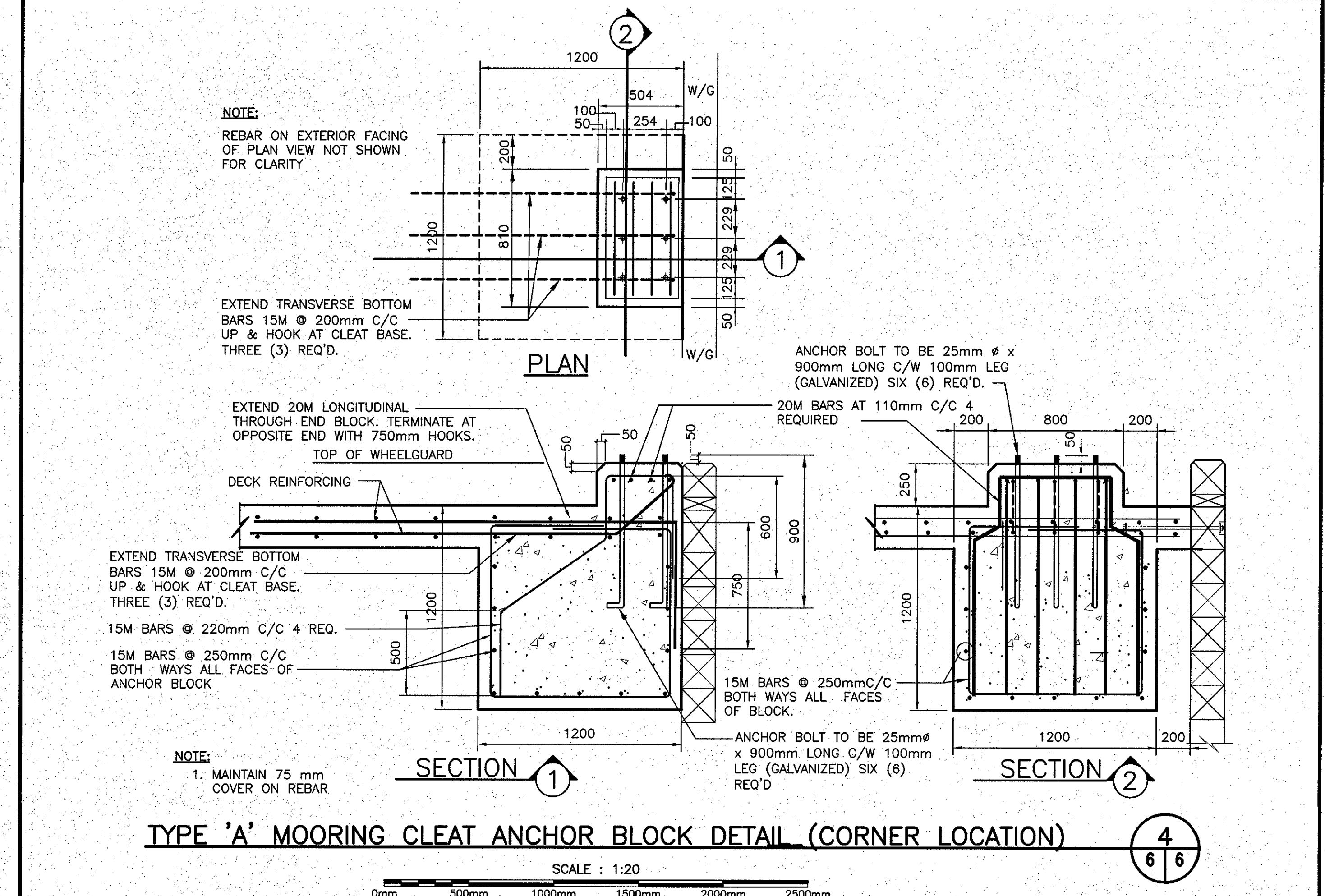
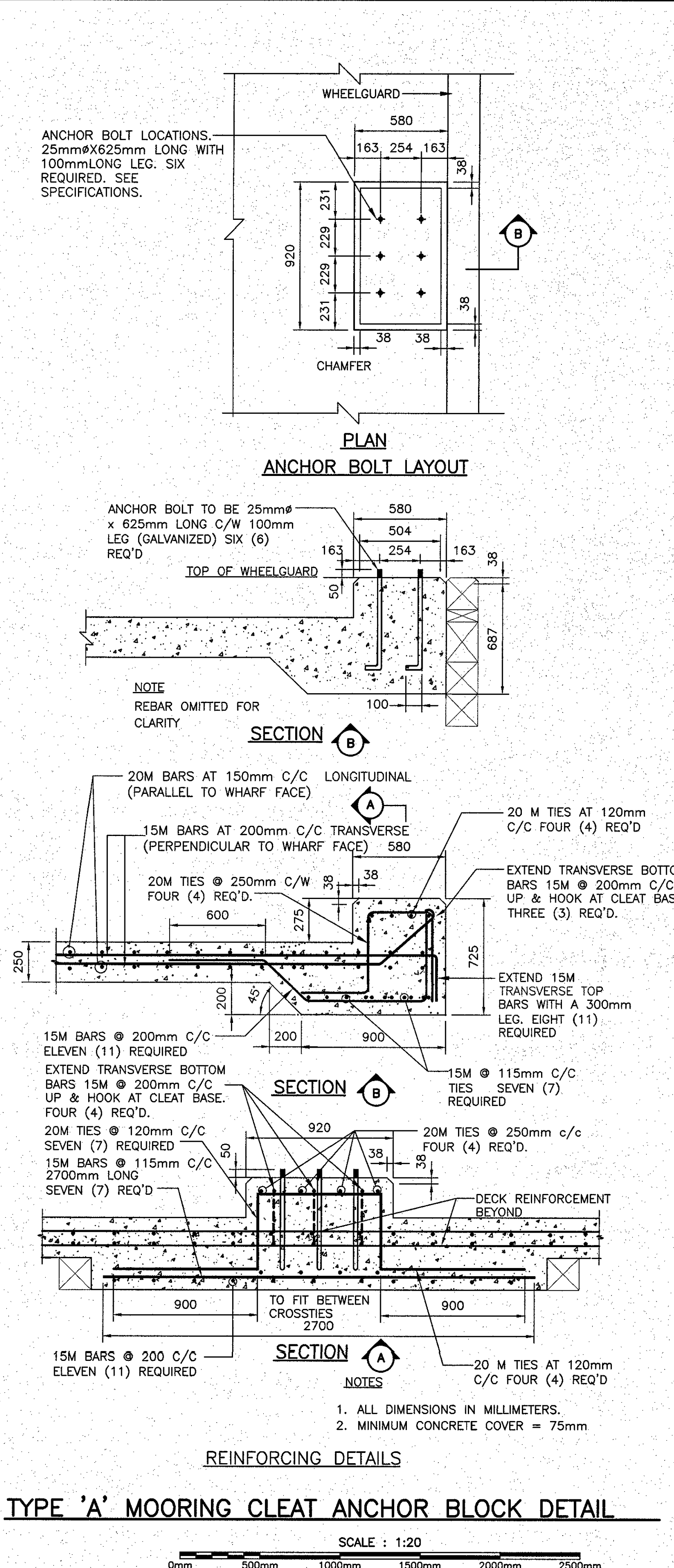
0	ISSUED FOR TENDER	25/01/17
revisions		date

project

**WHARF #404  
RECONSTRUCTION  
CODROY, NL.**

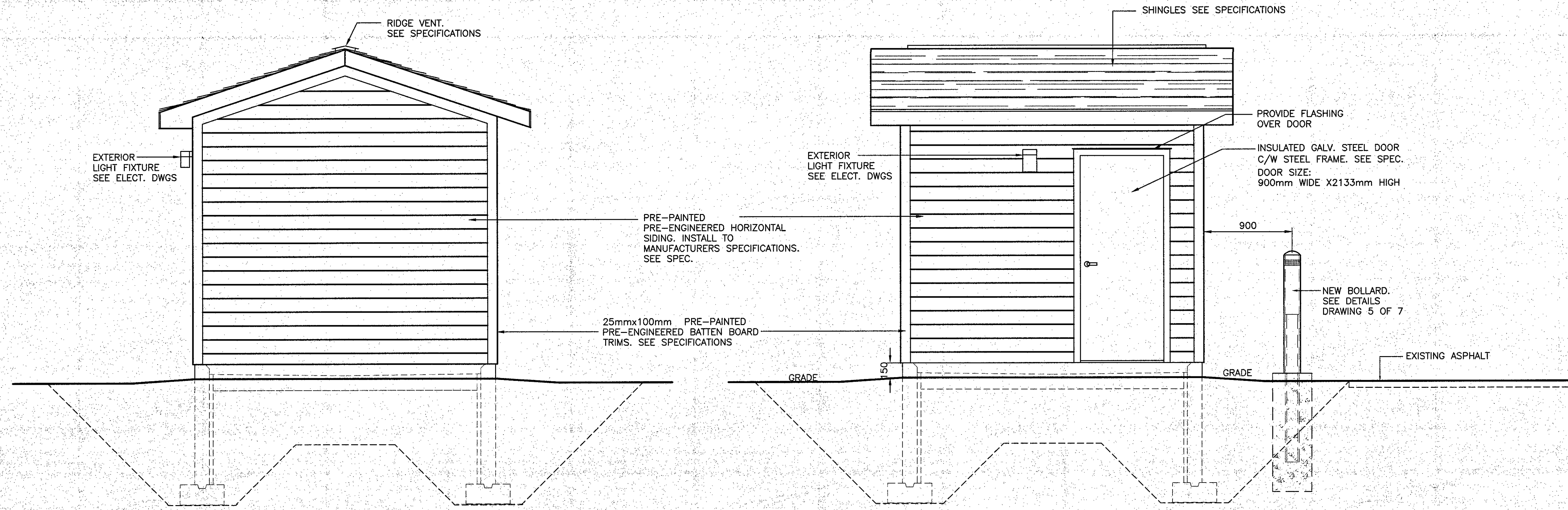
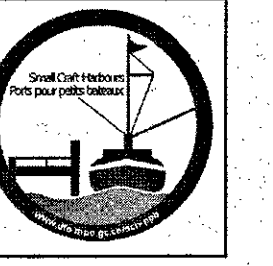
MISC. DETAILS

designed	W.J. ANDERSON	concep
date	JAN. 2017	
drawn	R.S.H	design
date	JAN. 2017	
approved		approve
date		
Tender	Paul Curran	Submission
DFD Project Manager		
project number	704074	no. du projet
drawing no.	6 of 7	no. du dessin





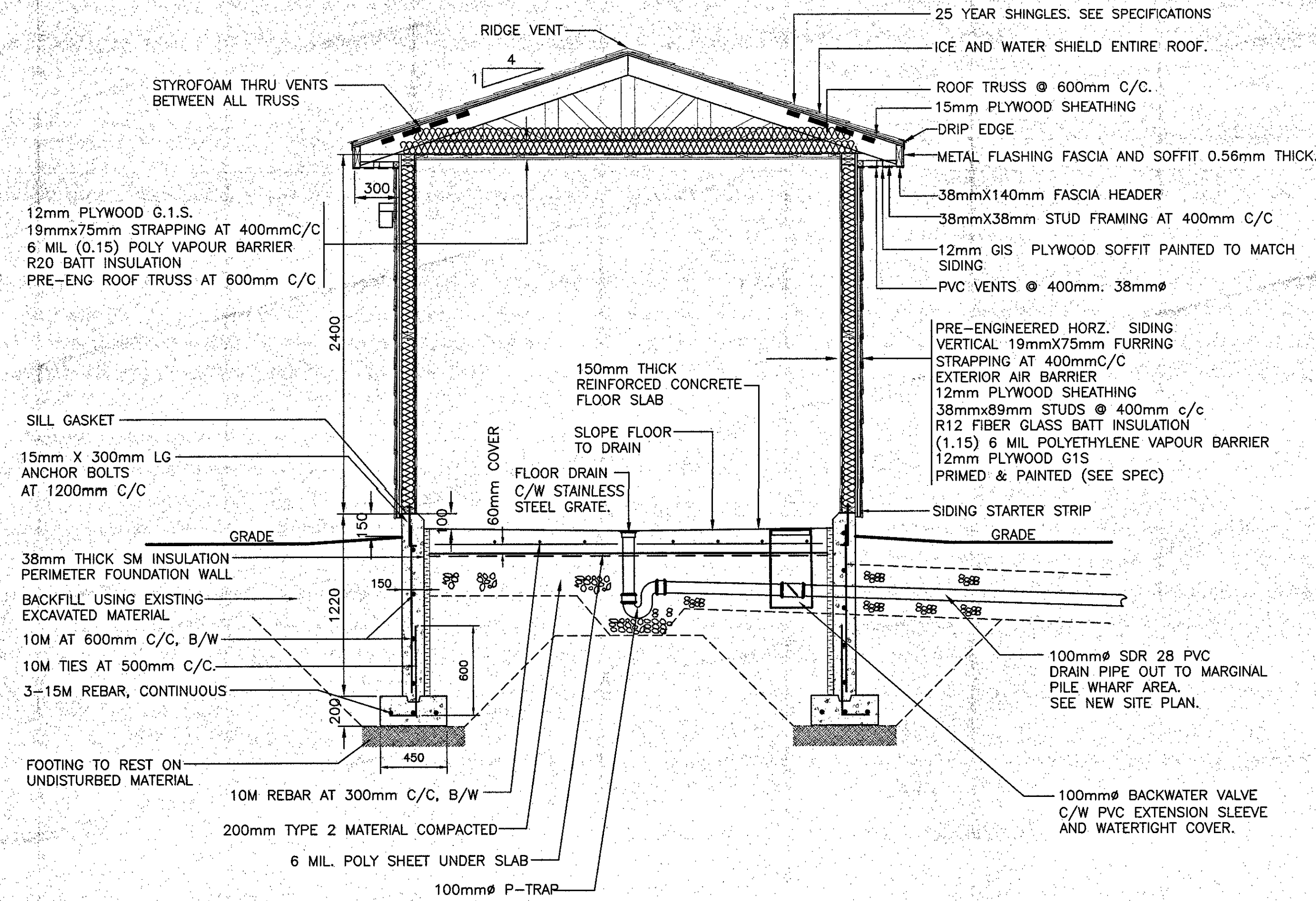
SMALL CRAFT HARBOURS



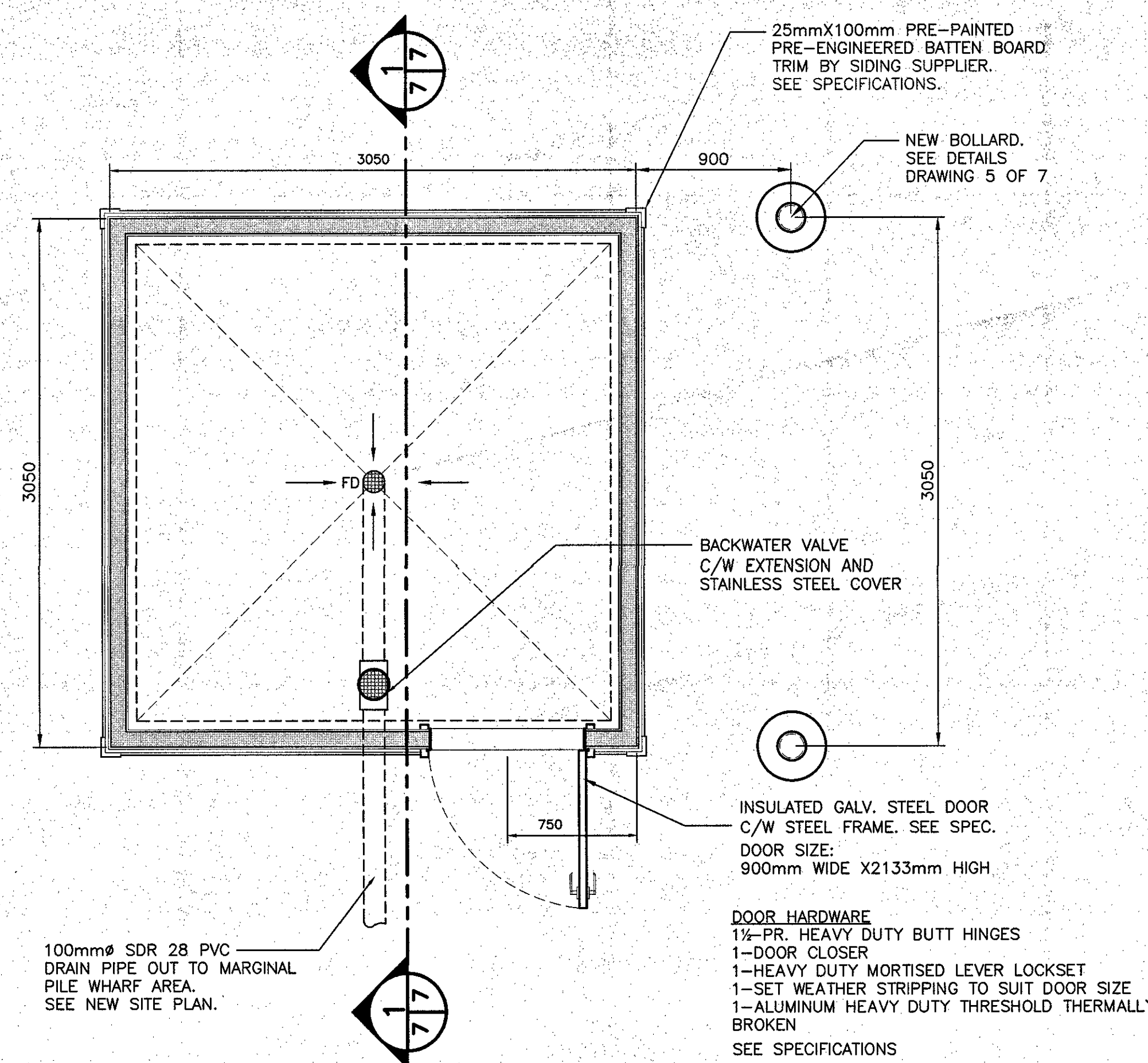
SIDE ELEVATION

FRONT ELEVATION

1. ROOF STRUCTURE SHALL BE DESIGNED TO SUPPORT THE FOLLOWING LOADS:  
 SPECIFIED ROOF SNOW LOAD 3.0 KN/M2  
 SPECIFIED ROOF DEAD LOAD 0.40 KN/M2



SECTION 1/1

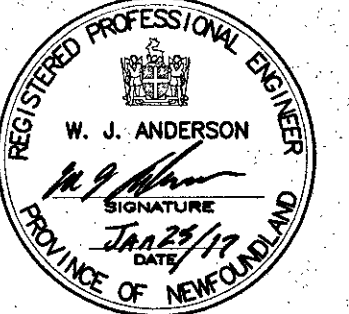


FLOOR PLAN

ELECTRICAL BUILDING

SCALE: 1:25

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 APEENL 20092...  
 which is valid for the year 2017...



0	ISSUED FOR TENDER	25/01/17
revisions		date
project		project

WHARF (#404)  
 RECONSTRUCTION  
 CODROY, NL.

ELECTRICAL BUILDING  
 PLAN, SECTION  
 AND DETAILS

designed	W.J. ANDERSON	concu
date	JAN. 2017	
drawn	R.S.H.	dessine
date	JAN. 2017	
approved		approuve
date		
Tender	<i>Paul Curran</i>	Submission
DFD Project Manager		
project number	704074	no. du projet
drawing no.	7 of 7	no. du dessin

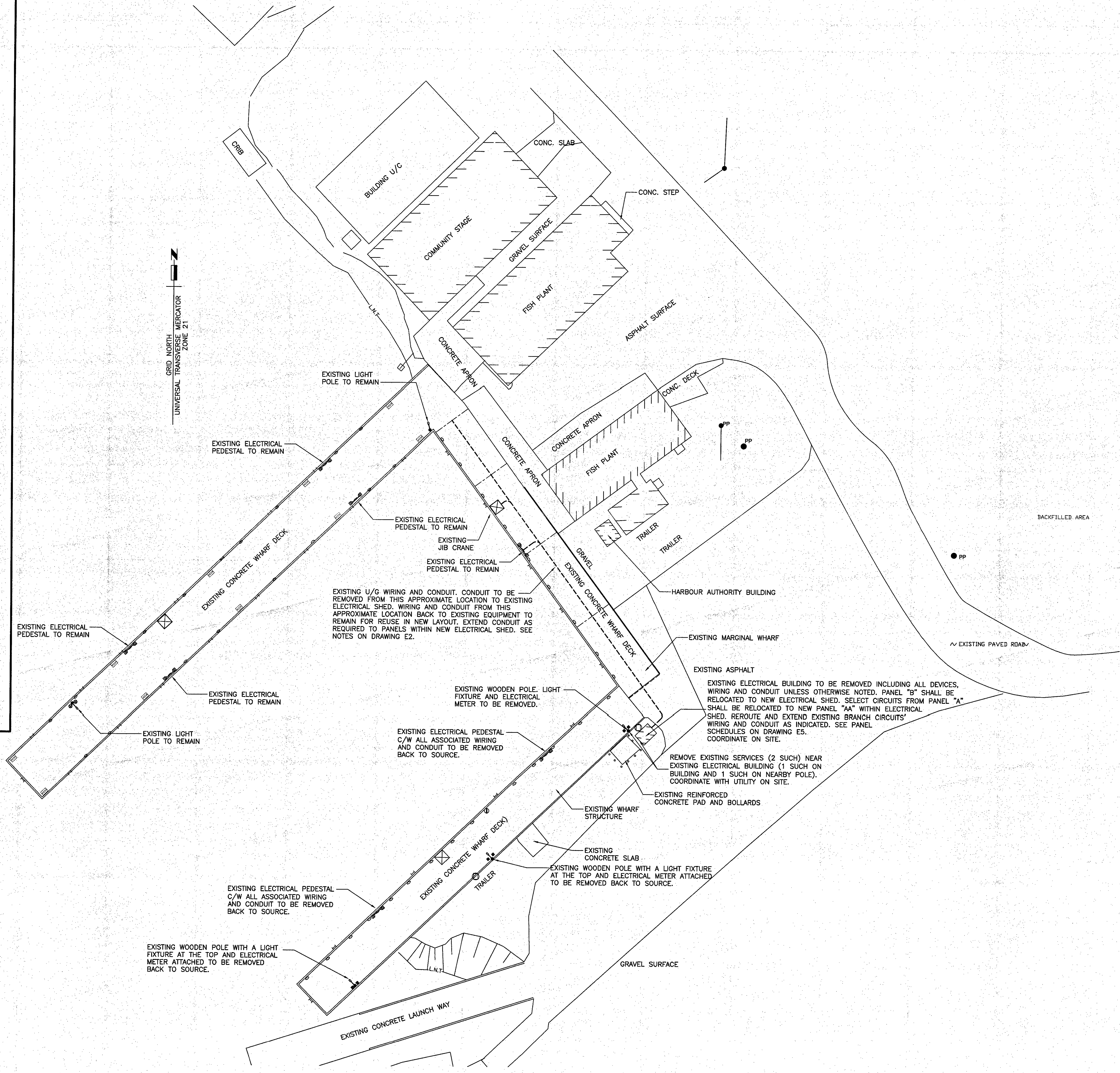


**ELECTRICAL LEGEND**

- (B) LED LIGHTING FIXTURE. TO BE PHILIPS #313LED16704K120 OR APPROVED EQUAL. SEE SPEC.
- (A) LED LIGHTING FIXTURE. TO BE PHILIPS #DWA43L940-4 C/W ACRYLIC LENS OR APPROVED EQUAL. SEE SPEC.
- Ⓢ SINGLE POLE TOGGLE SWITCH. 15 AMP, 120 VOLT, YELLOW, MARINE GRADE C/W PVC MARINE GRADE COVERPLATE. SEE SPEC. FOR MORE INFORMATION. MOUNT 1200mm ABOVE FINISHED FLOOR.
- (T) LINE VOLTAGE THERMOSTAT RATED 240 VOLT, 4500 WATTS, DPST, WHITE. MOUNT 1200mm AFF.
- SURFACE MOUNTED PANELBOARD
- LIGHT POLE AND FIXTURES. SEE DETAIL ON DRAWING E4.
- Ⓜ ELECTRICAL PEDESTAL. SEE DETAILS ON DRAWING E3.
- Ⓜ DUPLEX U-GROUND RECEPTACLE. 120 VOLT, 15 AMP, MARINE GRADE, YELLOW & C/W PVC MARINE GRADE COVERPLATE. WALL MOUNT 400mm ABOVE FINISHED FLOOR. "WP" INDICATES WEATHERPROOF GASKET AND COVERPLATE.
- Ⓜ TYPE CIRCUIT ELECTRIC HEATER.
- ⊗ JIB CRANE.

**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 OWNER 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 OWNER REPRESENTATIVE. BUILDING TO REMAIN OPERATIONAL DURING CONSTRUCTION.
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 AFTER NORMAL BUSINESS HOURS AND SHALL BE COORDINATED WITH OWNER 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 OWNER REPRESENTATIVE.
9. PROVIDE TYPED REVISED PANELBOARD DIRECTORIES FOR ALL PANELBOARDS WHERE BRANCH CIRCUITS WERE REMOVED, ADDED OR MODIFIED.
10. LABEL ALL EQUIPMENT WITH LAMACOID TAGS ACCORDING TO PWGSC STANDARDS.
11. ALL EXISTING ELECTRICAL EQUIPMENT REMOVED TO BE TURNED OVER TO OWNER. IF OWNER REFUSES THEN CONTRACTOR TO REMOVE FROM SITE AND DISPOSE.



**SITE PLAN - DEMOLITION**  
SCALE: 1:250

Pick Scale: 1:1

PWGSC B1

**SMALL CRAFT HARBOURS**



**NOTES**

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

**PERMIT**

PROVINCE OF NEWFOUNDLAND  
PERMIT HOLDER  
Class "A"  
This Permit Allows  
CROSSBIE ENGINEERING LIMITED  
To practice Professional Engineering  
in Newfoundland and Labrador  
Permit No. as issued by PEG-NS, 00123  
which is valid for the year 2017.

**STAMP**

REGISTERED PROFESSIONAL ENGINEER  
KENNETH R.P. NEIL  
JAN 02 17  
NEWFOUNDLAND & LABRADOR

0	ISSUED FOR TENDER	01/02/17
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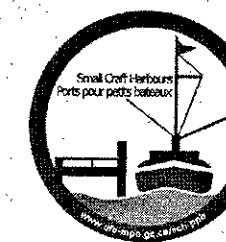
revisions	date
project	project

**WHARF #404  
RECONSTRUCTION  
CODROY, NL.**

**DEMOLITION SITE  
PLAN AND LEGEND**

designed	K.NEIL	conco
date	JAN. 2017	
drawn	B.COLLETT	dessin
date	JAN. 2017	
approved		approuvé
date		
Tender	Paul Curran	Soumission
DFD Project Manager		
project number	704074	no. du projet
drawing no.	E1 of 5	no. du dessin

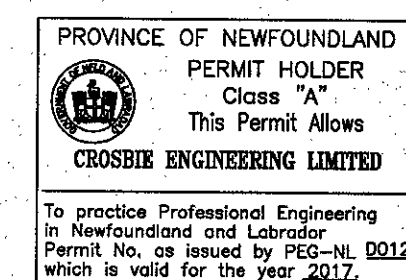




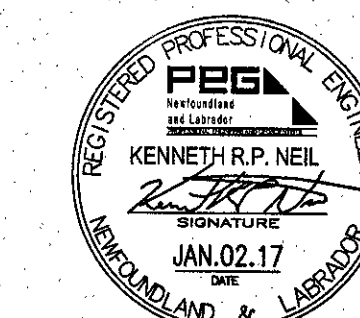
NOTES

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PERMIT



STAMP



0	ISSUED FOR TENDER	01/02/17
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revisions		date
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project		project
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**WHARF #404  
RECONSTRUCTION  
CODROY, NL.**

drawing		dessin
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**NEW SITE PLAN**

designed	K.NEIL	conçu
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date	JAN. 2017	
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drawn	B.COLLETT	dessiné
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date	JAN. 2017	
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approved		approuvé
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date		Submission
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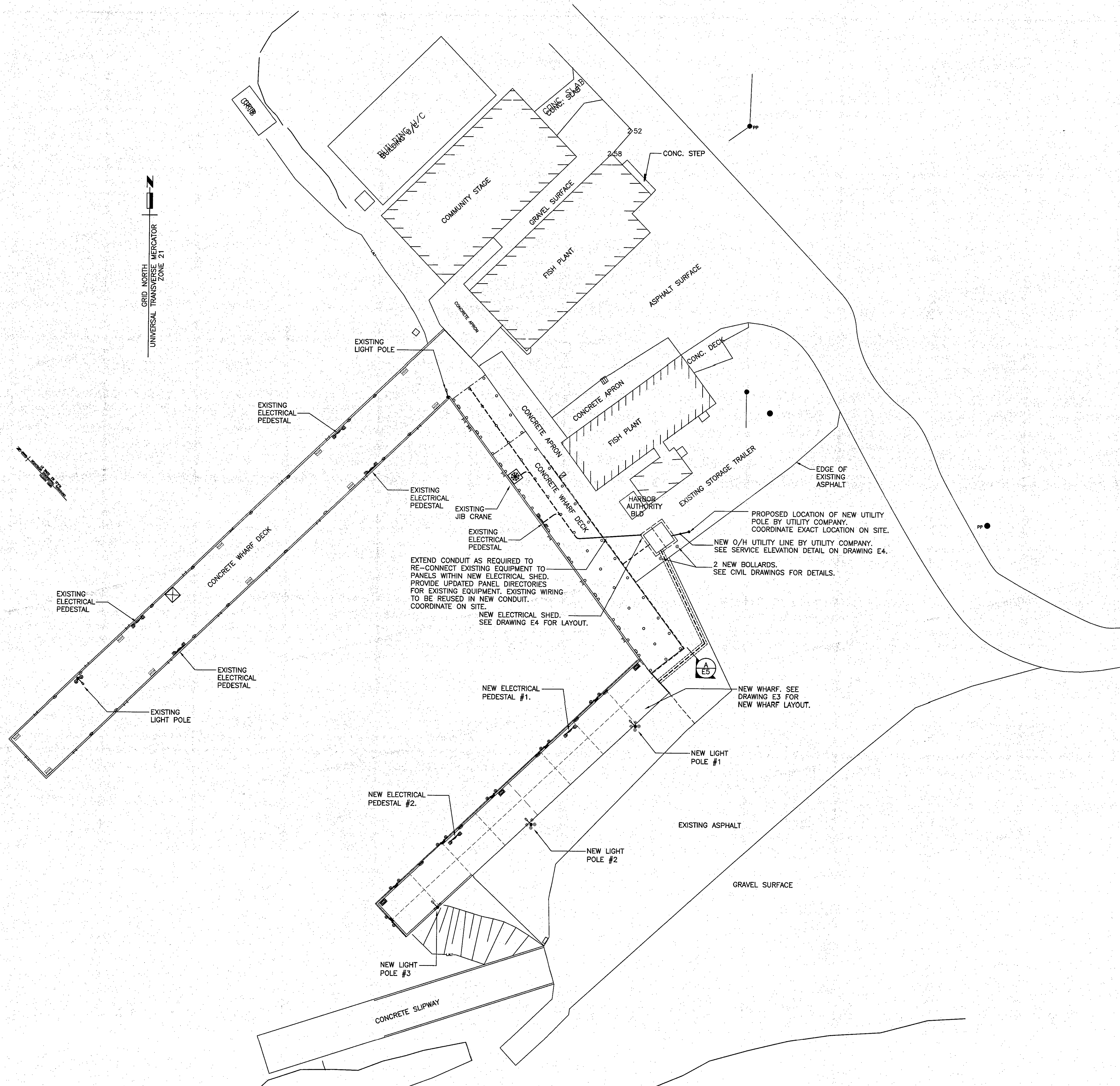
Tender *Paul Curran*  
DFO Project Manager

project number		no. du projet
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**704074**

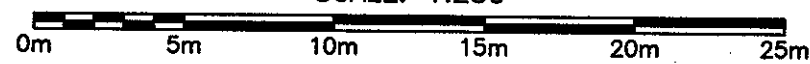
drawing no.		no. du dessin
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**E2 of 5**

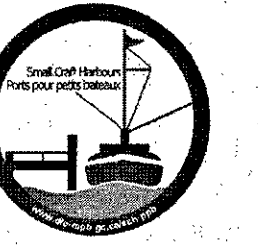


**SITE PLAN - NEW**

SCALE: 1:250

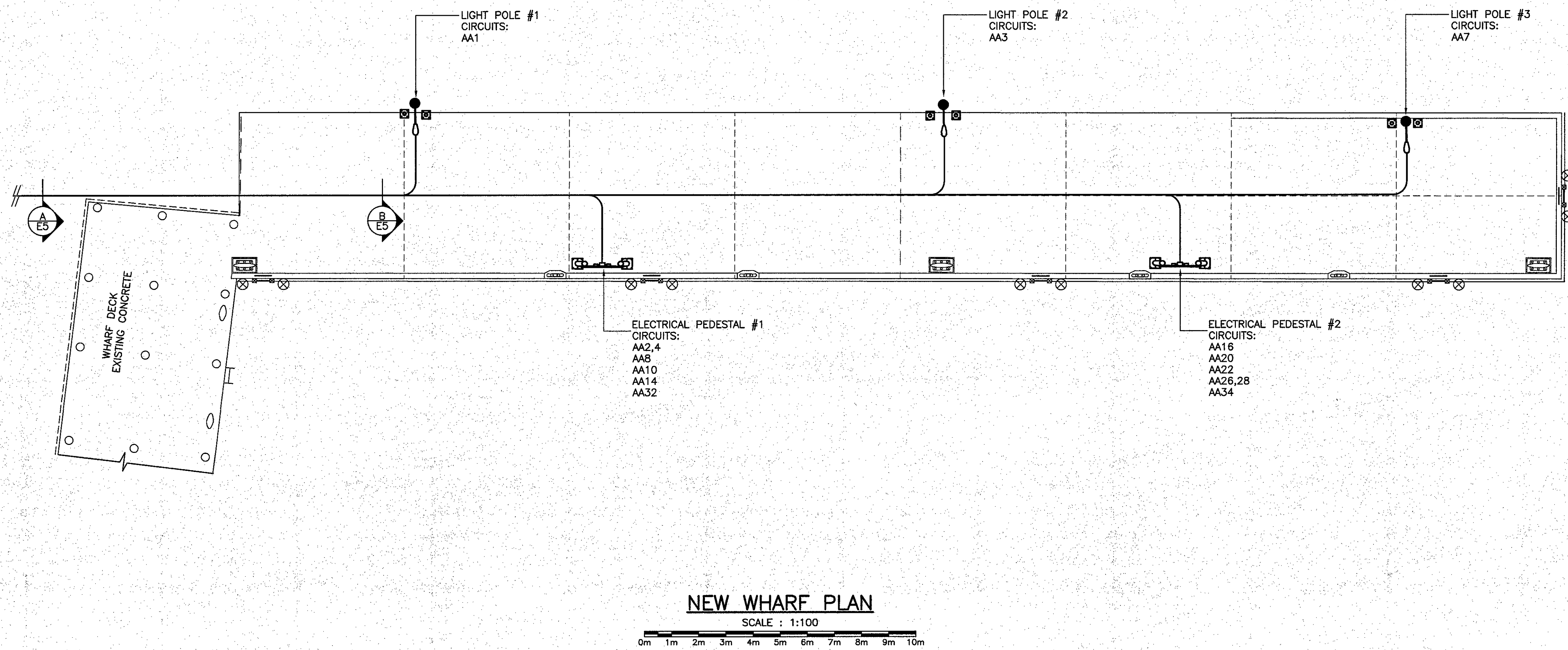




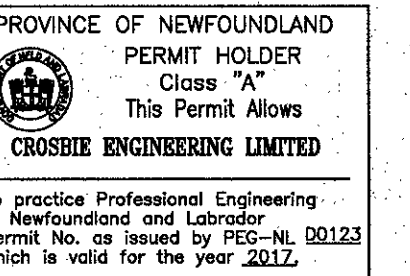


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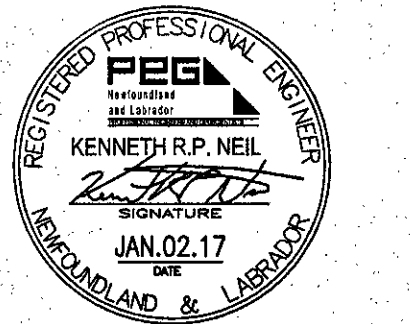
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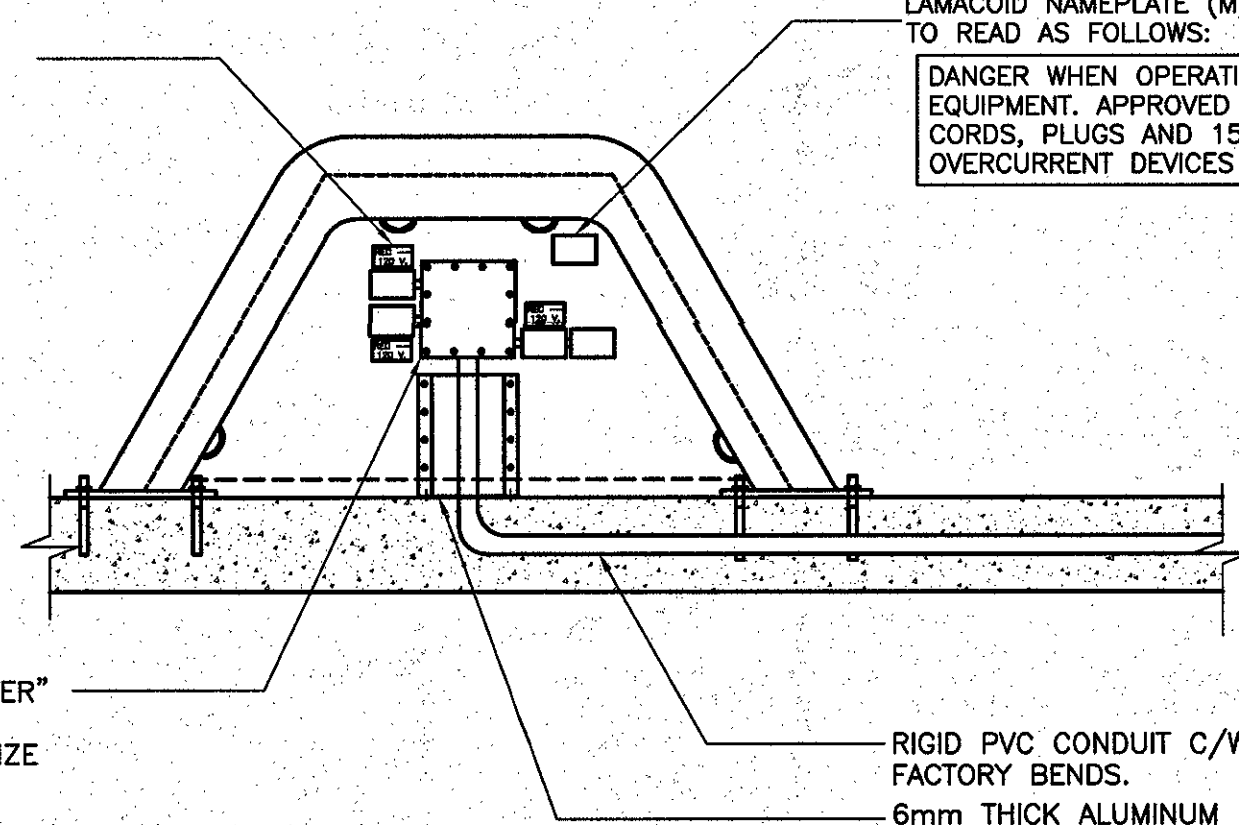
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LAMACOID LABEL (MECHANICALLY ATTACHED) FOR EACH RECEPTACLE READING "RECEPTACLE #1, 120 VOLT, C.T. A15" C/W APPROPRIATE INFO. COORDINATE WITH OWNERS FOR EXACT WORDING.

LAMACOID NAMEPLATE (MECHANICALLY ATTACHED) TO READ AS FOLLOWS:  
DANGER WHEN OPERATING 120V. 15 AMP EQUIPMENT. APPROVED RECEPTACLES, CORDS, PLUGS AND 15 AMP OVERCURRENT DEVICES MUST BE USED.

250 x 250 x 150mm PVC JUNCTION BOX RATED NEMA 4X C/W WEATHERPROOF COVERPLATE, NEOPRENE GASKET, MOUNTING STRAPS & WEATHERPROOF FITTINGS. "SCREPTER" OR APPROVED EQUAL. RUN A DEDICATED NEUTRAL CONDUCTOR FOR EACH CIRCUIT. SIZE BOND WIRES TO SECTION 10 OF C.E.C. C22.1-12. ALL CABLE CONNECTORS TO BE MARINE GRADE C/W "O" RINGS. BOX TO BE C/W DIN RAIL MOUNTED TERMINAL BLOCKS EQUAL TO "PHOENIX" CONTACT UK16 SERIES. DO NOT SPLICE CONDUCTORS.



**ELEVATION**

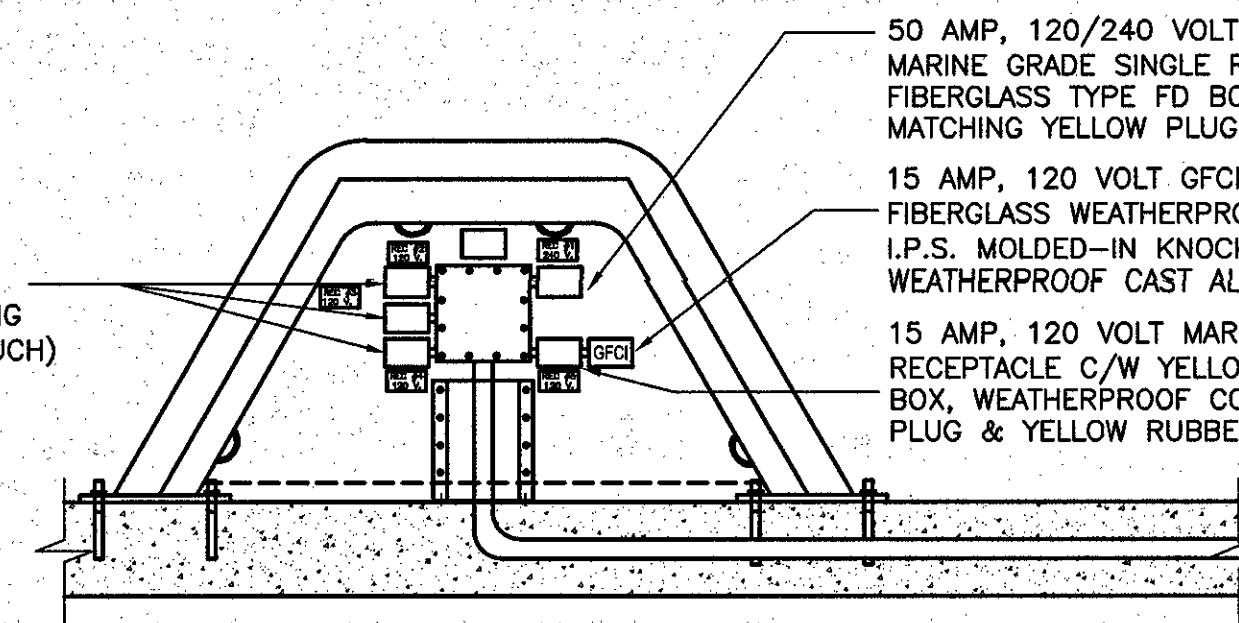
NOTE:

1. ELECTRICAL PEDESTAL SUPPLIED AND INSTALLED BY GENERAL CONTRACTOR. ELECTRICAL DEVICES SUPPLIED AND INSTALLED BY ELECTRICAL CONTRACTOR.
2. MOUNT RECEPTACLES IN PVC FD TYPE OUTLET BOX, COVER, GASKET & MOUNTING LUGS, HUBS, WEATHER PROOF FITTINGS, CAST "CROUSE HINDS" OR EQUAL, C/W 20mm.
3. UTILIZE RIGID PVC CONDUIT C/W MARINE GRADE FITTINGS. SECURE TO PEDESTAL USING 2 HOLE STRAPS & S.S. SCREWS. TYPICAL.

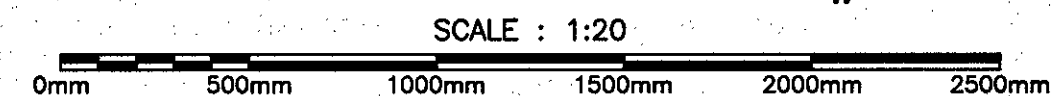
**TYPICAL ELECTRICAL PEDESTAL DETAIL**



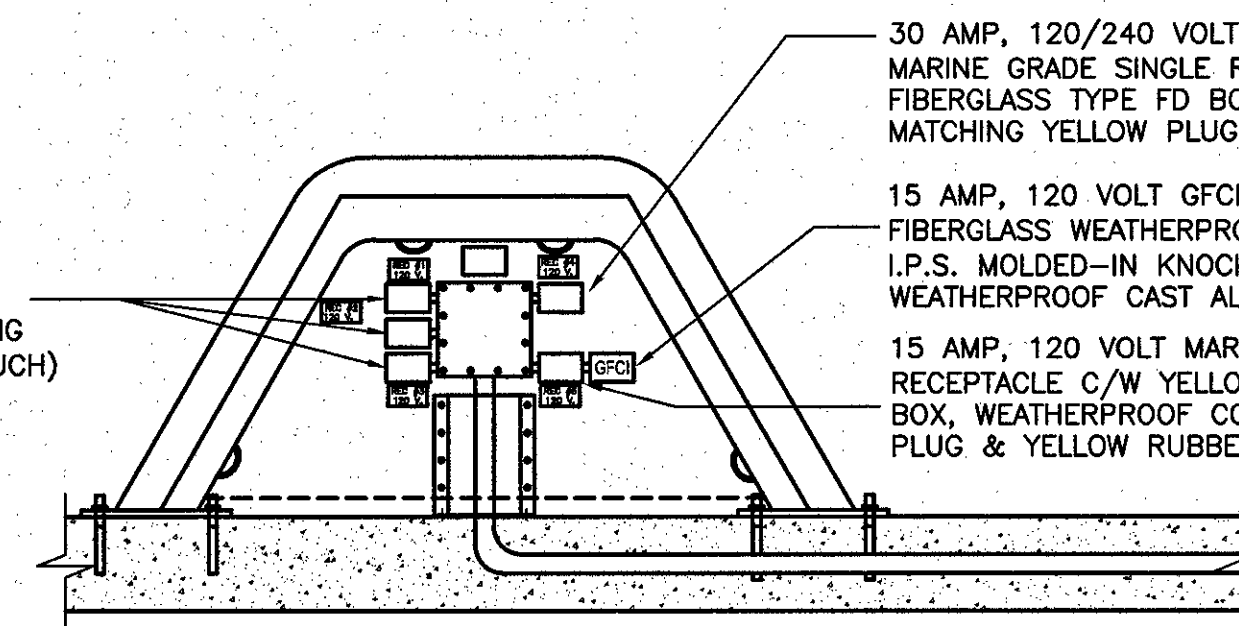
30 AMP, 120 VOLT MARINE GRADE TWISTLOCK SINGLE RECEPTACLE C/W YELLOW FIBERGLASS TYPE FD BOX, WEATHERPROOF COVER, MATCHING YELLOW PLUG & YELLOW RUBBER BOOT. (3 SUCH)



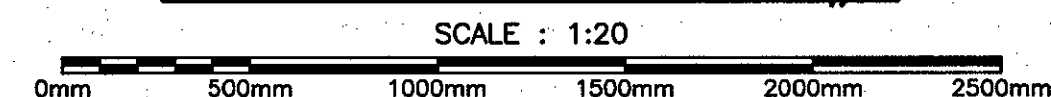
**ELECTRICAL PEDESTAL #1**



30 AMP, 120 VOLT MARINE GRADE TWISTLOCK SINGLE RECEPTACLE C/W YELLOW FIBERGLASS TYPE FD BOX, WEATHERPROOF COVER, MATCHING YELLOW PLUG & YELLOW RUBBER BOOT. (3 SUCH)



**ELECTRICAL PEDESTAL #2**



50 AMP, 120/240 VOLT 1Φ-4 WIRE TWIST LOCK MARINE GRADE SINGLE RECEPTACLE C/W YELLOW FIBERGLASS TYPE FD BOX, WEATHERPROOF COVER, MATCHING YELLOW PLUG & YELLOW RUBBER BOOT.  
15 AMP, 120 VOLT GFCI MODULE INSTALLED IN A FIBERGLASS WEATHERPROOF BOX WITH TWO 3/4" I.P.S. MOLDED-IN KNOCKOUTS C/W PVC WEATHERPROOF CAST ALUMINUM LIFT COVER PLATE.  
15 AMP, 120 VOLT MARINE GRADE DUPLEX RECEPTACLE C/W YELLOW FIBERGLASS TYPE FD BOX, WEATHERPROOF COVER, MATCHING YELLOW PLUG & YELLOW RUBBER BOOT.

0	ISSUED FOR TENDER	01/02/17
revisions		date
project		project

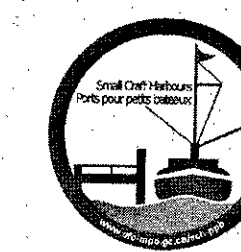
**WHARF #404  
RECONSTRUCTION  
CODROY, NL.**

**NEW WHARF &  
PEDESTAL DETAILS**

designed	K.NEIL	conciu
date	JAN. 2017	
drawn	B.COLLETT	desaine
date	JAN. 2017	
approved		approve
date		
Tender	<i>Paul Curran</i>	Submission
DFO Project Manager		
project number	704074	no. du projet
drawing no.	E3 of 5	no. du dessin



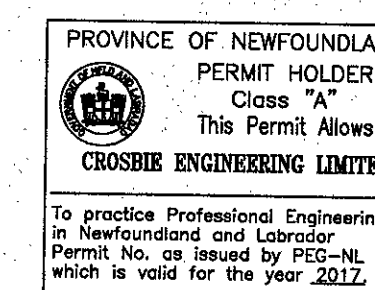
SMALL CRAFT HARBOURS



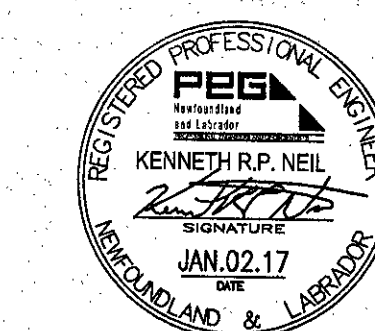
NOTES

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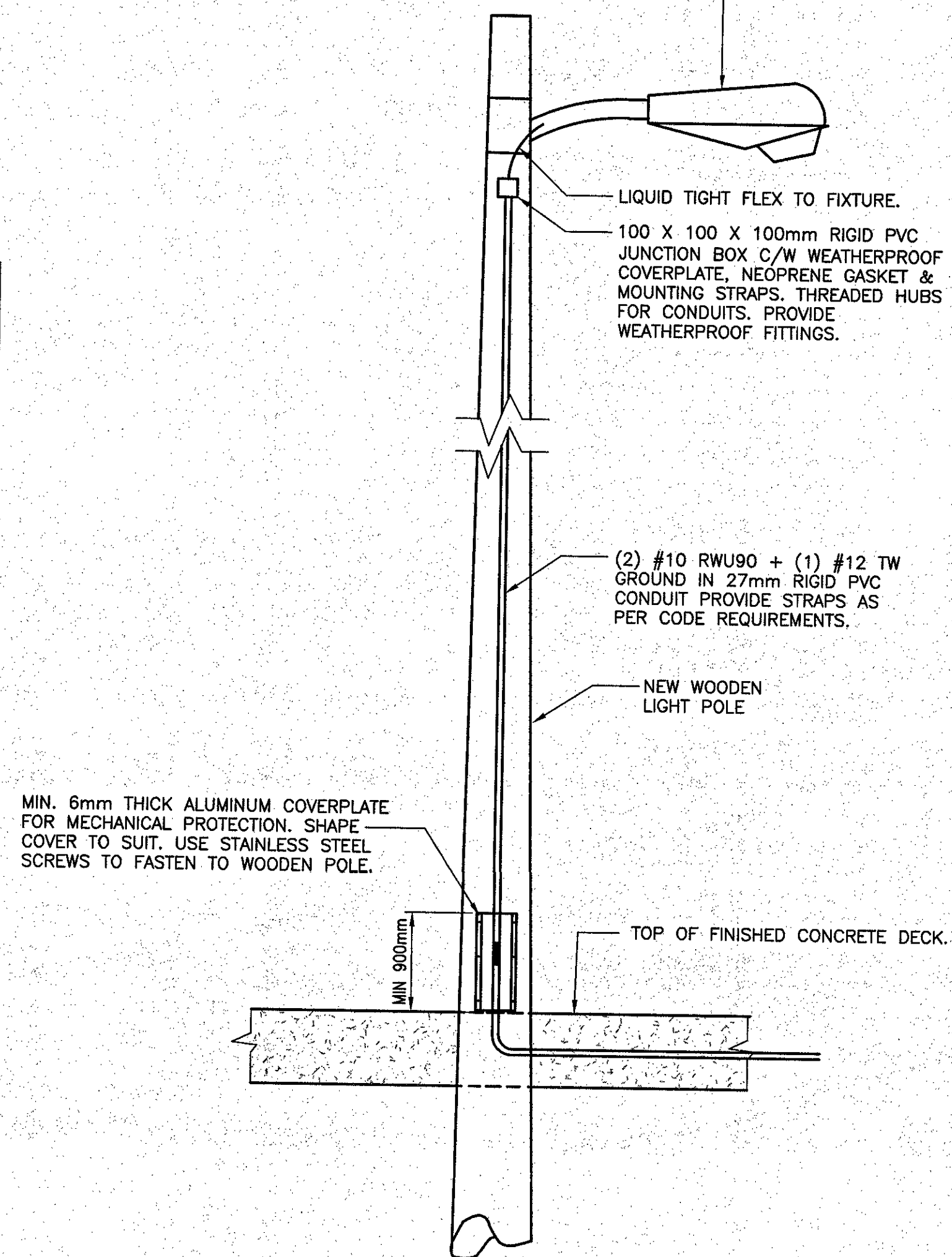


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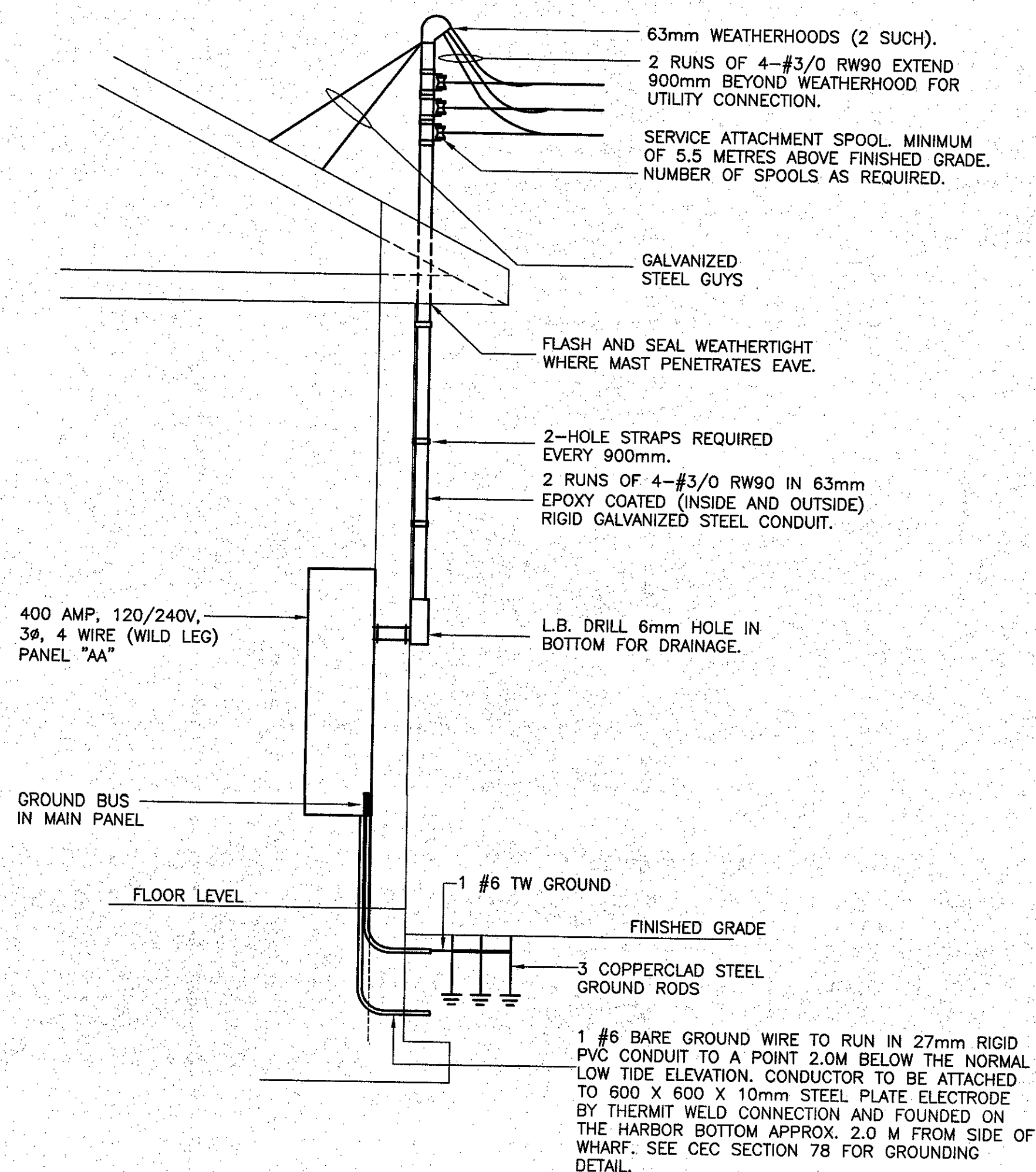
LIGHT FIXTURES, PHOTOCELLS, UPSWING ARMS AND LAMPS TO BE SUPPLIED BY OWNER AND INSTALLED BY ELECTRICAL CONTRACTOR. OWNER SUPPLIED MATERIALS TO BE PICKED UP BY THE CONTRACTOR AT DFO'S WAREHOUSE IN MOUNT PEARL, NL. ELECTRICAL CONTRACTOR SHALL SUPPLY AND INSTALL ALL OTHER REQUIRED JUNCTION BOXES, CONDUIT, COVERPLATES, ETC FOR A COMPLETE INSTALLATION.

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



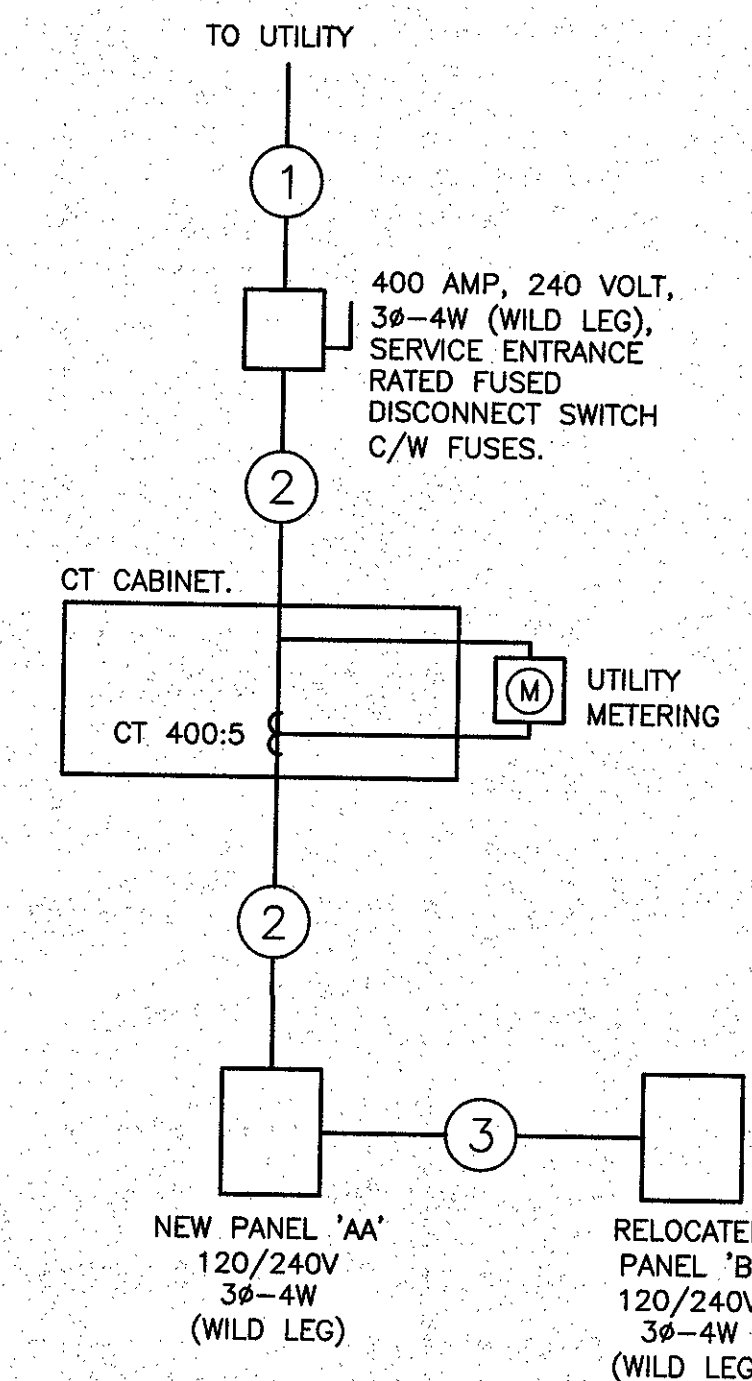
LIGHT POLE DETAIL  
N.T.S.

CONTRACTOR TO COORDINATE WITH UTILITY COMPANY NEW SERVICE REQUIREMENTS. ACTUAL MOUNTING HEIGHT OF SERVICE MAST TO BE COORDINATED WITH UTILITY COMPANY. ADJUST CONDUCTOR AND CONDUIT LENGTHS ON THIS DETAIL AS REQUIRED.



SERVICE ELEVATION DETAIL  
N.T.S.

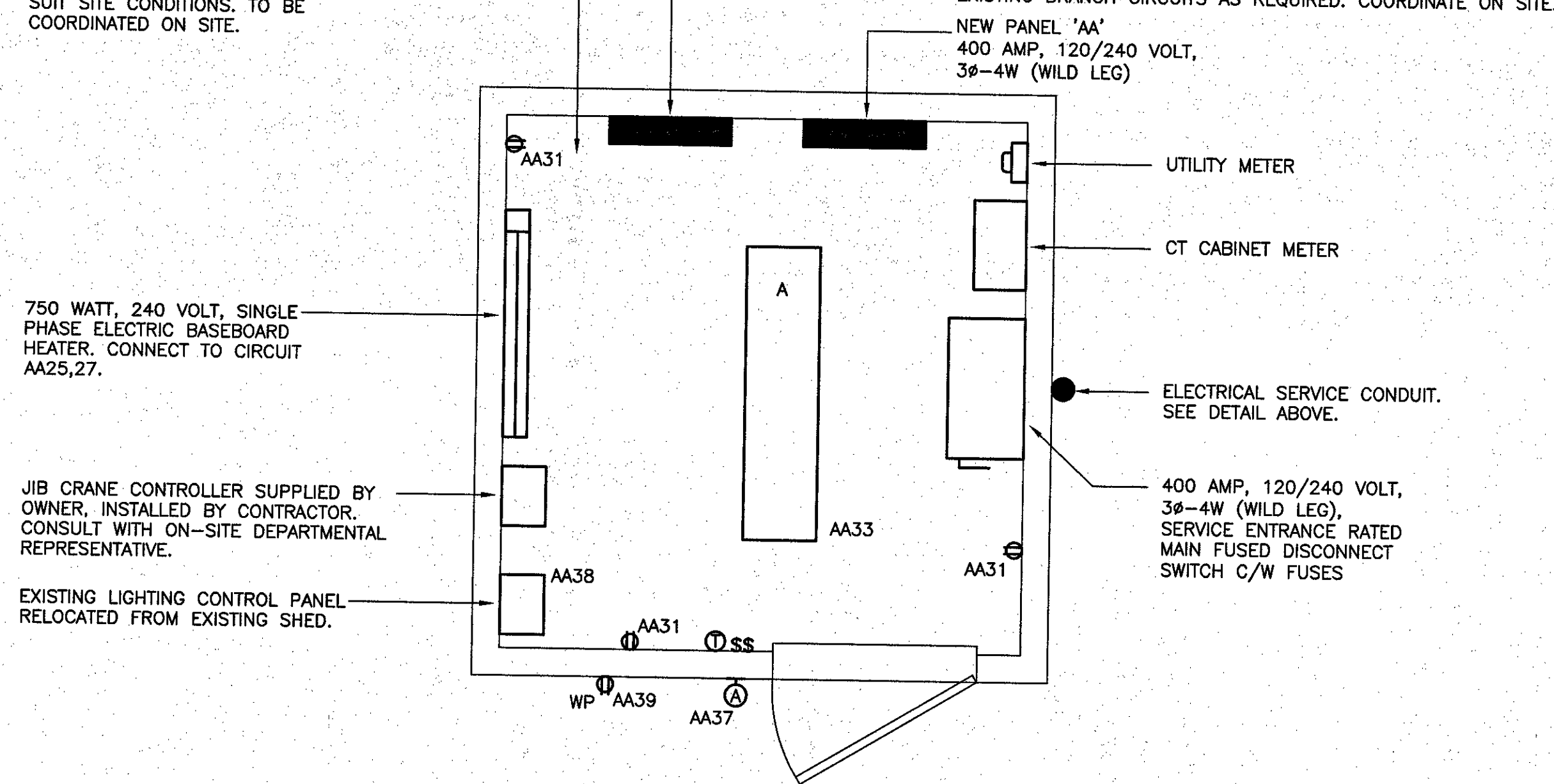
SYMBOL	WIRE AND CONDUIT SIZE
①	2 RUNS OF (4 #3/0 RW90 IN 63mm EPOXY COATED (INSIDE AND OUTSIDE) RIGID GALVANIZED STEEL CONDUIT).
②	2 RUNS OF (4 #3/0 RW90 + 1 #4 TW GROUND IN 53mm EMT CONDUIT).
③	4 #3/0 RW90 + 1 #4 TW GROUND IN 53mm EMT CONDUIT.



SINGLE LINE DIAGRAM  
N.T.S.

LAYOUT INDICATED IS APPROXIMATE ONLY. CONTRACTOR TO RELOCATE ELECTRICAL DEVICES IN SHED TO SUIT SITE CONDITIONS. TO BE COORDINATED ON SITE.

EXISTING PANEL 'B' RELOCATED FROM EXISTING SHED (WILD LEG). REROUTE AND EXTEND WIRING AND CONDUIT FOR ALL EXISTING BRANCH CIRCUITS AS REQUIRED. COORDINATE ON SITE.



ELECTRICAL SHED PLAN  
SCALE : 1:20



0	ISSUED FOR TENDER	01/02/17
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revisions		date
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project **WHARF #404 RECONSTRUCTION CODROY, NL.**

drawing design

ELECTRICAL DETAILS

designed K.NEIL conou

date JAN. 2017

drown B.COLLETT dessine

date JAN. 2017

approved approve

date

Tender Paul Curran Submission

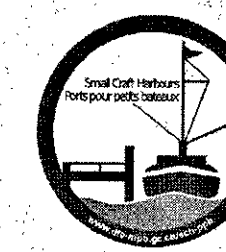
DFO Project Manager

project number **704074** no. du projet

drawing no. **E4 of 5** no. du dessin



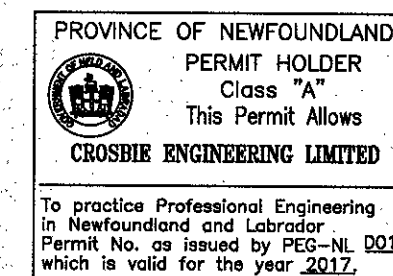
SMALL CRAFT HARBOURS



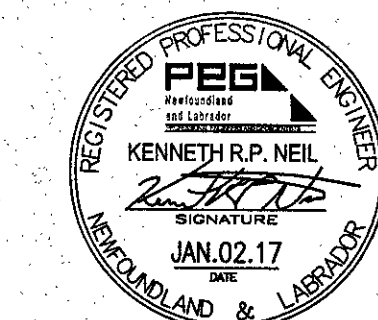
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PERMIT



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revisions		date
project		project

WHARF #404 RECONSTRUCTION CODROY, NL.

PANEL SCHEDULES & DETAILS

designed	K.NEIL	concu
date	JAN. 2017	
drawn	B.COLLETT	designe
date	JAN. 2017	
approved		approve
date		
Tender	Paul Curran	Submission
DFO Project Manager		
project number	704074	no. du projet
drawing no.		no. du dessin

NEW PANEL

CONTRACTOR TO CLEARLY INDICATE WITH LAMICOID LABEL ON FRONT OF PANEL THAT THIS PANEL HAS A WILD LEG.

VOLTS 120/240 (WILD LEG)	PANEL NAME "AA"	MAINS RATED 400 AMPS
PHASE 3	LOCATION ELECTRICAL SHED	MOUNTING SURFACE
WIRE 4	FED FROM UTILITY	ENTER AT
		CIRCUITS 60

DESIGNATION	WATTAGE		WIRE	BKR	CCT	A	B	C	CCT	BKR	WIRE	WATTAGE		DESIGNATION
	# A	# B										# A	# B	
LIGHT POLE #1	200		10	15	1				2	50	4	4200	4200	PEDESTAL #1 (RECEPT. #1)
LIGHT POLE #2		200	10	15	3				4	2				PEDESTAL #1 (RECEPT. #2)
SPACE					5				6					SPACE
LIGHT POLE #3		200	10	15	7				8	30	6	2520	2520	PEDESTAL #1 (RECEPT. #3)
SPACE					9				10	30	6	2520	2520	PEDESTAL #1 (RECEPT. #4)
SPACE					11				12					SPACE
SPACE					13				14	30	6	2520	2520	PEDESTAL #2 (RECEPT. #1)
SPACE					15				16	30	4	2520	2520	PEDESTAL #2 (RECEPT. #2)
** JIB CRANE LIGHTS (A20)		300	12	15	18				18					SPACE
SPACE					17				20	30	4	2520	2520	PEDESTAL #2 (RECEPT. #2)
SPACE					19				22	30	4	2520	2520	PEDESTAL #2 (RECEPT. #3)
SPACE					21				24					SPACE
HEAT - SHED	375		12	15	25				26	30	6	2520	2520	PEDESTAL #2 (RECEPT. #4)
SPACE		375	12	15	27				28	2	6	2520	2520	PEDESTAL #2 (RECEPT. #5)
RECEPT - SHED	360		12	15	31				30					SPACE
LIGHTING - SHED	150		12	15	33				32	15	8	1260	1260	PEDESTAL #1 (RECEPT. #5)
SPACE					35				34	15	6	1260	1260	PEDESTAL #2 (RECEPT. #5)
LIGHTING - SHED	150		12	15	37				36					SPACE
** EXTERIOR RECEPT	120		12	15	39				38	15	12	100	100	EXTERIOR LIGHTING CONTROL PANEL
SPACE					41				40	15				SPACE
** EXISTING CIRCUIT - POLE (A1)	300		15	43					42					SPACE
** EXISTING CIRCUIT - EXT. LIGHTING & RECEPT (A3)	300	300	20	45					44	15	120			EXISTING CIRCUIT - EXTERIOR RECEPT (A16)
SPACE					47				46	20		300		EXISTING CIRCUIT - POLE (A22)
** EXISTING CIRCUIT - EXTERIOR LIGHTING (A5)	300		20	49					48					SPACE
** EXISTING CIRCUIT - POLE (A7)	300	300	15	51					50	20	300			EXISTING CIRCUIT - POLE (A24)
SPACE					53				52	15				SPACE
** EXISTING CIRCUIT - POLE (A4)	300		20	55					54					SPACE
** EXISTING CIRCUIT - POLE (A6)	300		20	57					56	200				RELOCATED PANEL "B"
SPACE					59				58	3	3/0			
									60	3				

\* - INDICATES GFCI RECEPTACLE  
\*\* - INDICATES EXISTING CIRCUIT RELOCATED FROM EXISTING PANEL 'A'. REROUTE AND EXTEND WIRING AND CONDUIT AS REQUIRED. COORDINATE ON SITE EXACT CIRCUITS TO BE RELOCATED WITH DEPARTMENTAL REPRESENTATIVE.

TOTAL LOAD 65.1 KW 157 AMP

EXISTING PANEL RELOCATED TO NEW SHED

CONTRACTOR TO CLEARLY INDICATE WITH LAMICOID LABEL ON FRONT OF PANEL THAT THIS PANEL HAS A WILD LEG.

VOLTS 120/240 (WILD LEG)	PANEL NAME 'B'	MAINS RATED 200 AMPS
PHASE 3	LOCATION ELECTRICAL SHED	MOUNTING SURFACE
WIRE 4	FED FROM PANEL 'AA'	ENTER AT
		CIRCUITS 42

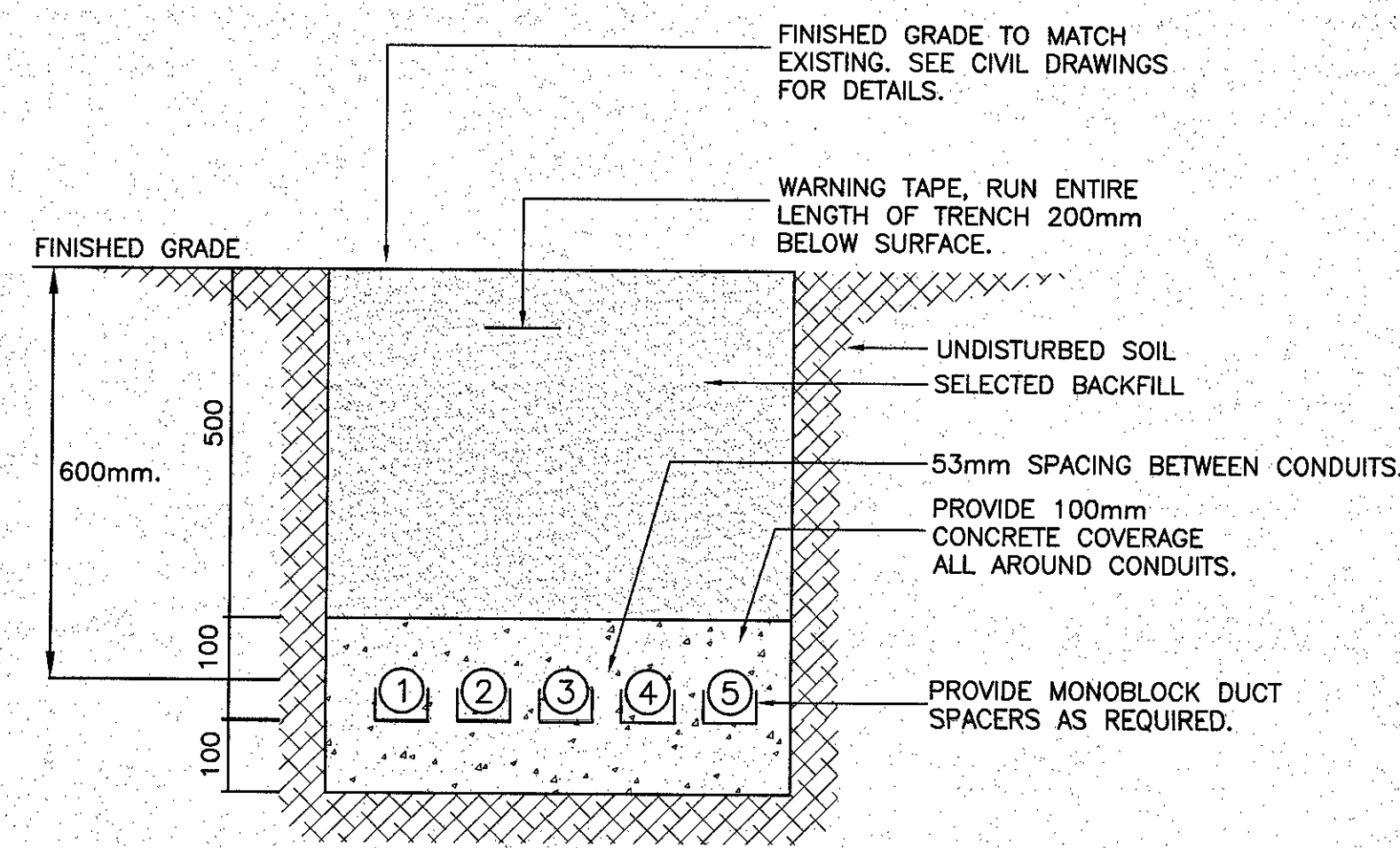
DESIGNATION	WATTAGE		WIRE	BKR	CCT	A	B	C	CCT	BKR	WIRE	WATTAGE		DESIGNATION
	# A	# B										# A	# B	
** PEDESTAL #1	1260		15	1					2	30		1400	1400	WINCH
** PEDESTAL #2		1260	15	3					4	3				WINCH
SPACE					5				6					SPACE
** PEDESTAL #3	1260		15	7					8	30	2520			PEDESTAL #5
** PEDESTAL #4		1260	15	9					10	30	2520			PEDESTAL #5
SPACE					11				12					SPACE
** PEDESTAL #1	2520		30	13					14	15	1260			PEDESTAL #5
** PEDESTAL #1		2520	30	15					16	30				SPACE
SPACE					17				18					SPACE
** PEDESTAL #1	2520		30	19					20	30				SPACE
** PEDESTAL #2		2520	30	21					22	30				SPACE
SPACE					23				24					SPACE
** PEDESTAL #2	2520		30	25					26	30				SPACE
** PEDESTAL #2		2520	30	27					28	30				SPACE
SPACE					29				30					SPACE
** PEDESTAL #3	2520		30	31					32	30				SPACE
** PEDESTAL #3		2520	30	33					34	30	2520			PEDESTAL #4
SPACE					35				36					SPACE
** PEDESTAL #3	2520		30	37					38	30	2520			PEDESTAL #4
** WINCH RECEPTACLE		120	15	39					40	30	2520			PEDESTAL #4
SPACE					41				42					SPACE

COORDINATE ON SITE EXACT CIRCUITS TO BE REMOVED FROM THE ELECTRICAL PEDESTALS REMOVED AND REPLACED. REMOVE WIRING AND CONDUIT AS REQUIRED FOR THESE CIRCUITS BACK TO SOURCE. CIRCUIT BREAKERS FOR THESE CIRCUITS TO REMAIN AS SPARES.

\* - INDICATES EXISTING CIRCUIT REROUTED & RELOCATED FROM EXISTING SHED. REROUTE AND EXTEND WIRING AND CONDUIT AS REQUIRED. COORDINATE ON SITE.

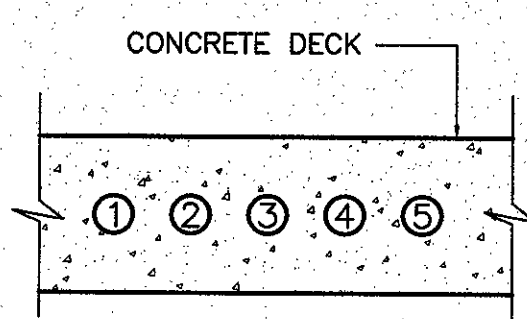
TOTAL LOAD 40.46 KW 98 AMP

- TRENCHING NOTES:
1. ALL TRENCHES SHALL BE BACKFILLED WITH SELECTED BACKFILL AND TAMPED IN 300mm LAYERS. EXCEPT AT ROAD CROSSINGS WHERE THE BACKFILL SHALL BE THE SAME MATERIAL AS THE ROAD BED AND TAMPED IN 150mm LAYERS. EXCESS FILL SHALL BE PLACED ON TOP TO ALLOW FOR SETTLING.
  2. THE DUCTS SHALL BE SUPPORTED BY APPROVED SPACERS. NO WIRE OR METAL TIES TO BE USED.
  3. COPPER FISH WIRE MINIMUM #8 MUST BE INSTALLED IN ALL DUCTS.
  4. ELECTRICAL DUCT MUST BE RIGID PVC OR APPROVED EQUIVALENT.
  5. ALL DUCTS AND FITTINGS MUST BE CSA APPROVED.
  6. ALL DUCTS ARE TO BE SECURELY CAPPED AT BOTH ENDS.
  7. ALL FITTINGS, COUPLINGS AND ADAPTERS ARE TO BE SOLVENT WELD.



SYMBOL	UNDERGROUND WIRE AND CONDUIT SIZE
①	2 #10 RWU90 + 1 #12 TW GROUND IN 27mm RIGID PVC CONDUIT (LIGHT POLE #1)
②	2 #10 RWU90 + 1 #12 TW GROUND IN 27mm RIGID PVC CONDUIT (LIGHT POLE #2)
③	2 #10 RWU90 + 1 #12 TW GROUND IN 27mm RIGID PVC CONDUIT (LIGHT POLE #3)
④	5 #6 RW90 + 6 #4 RW90 + 1 #4 TW GROUND IN 53mm RIGID PVC CONDUIT (PEDESTAL #2)
⑤	2 #8 RW90 + 6 #6 RW90 + 3 #4 RW90 + 1 #4 TW GROUND IN 53mm RIGID PVC CONDUIT (PEDESTAL #1)

TRENCH DETAIL A  
N.T.S.



- NOTES:
1. CONDUIT LOCATIONS ARE APPROXIMATE ONLY. ACTUAL CONDUIT LOCATIONS TO BE COORDINATED ON SITE.
  2. STEEL REINFORCEMENT OMITTED FOR CLARITY. SEE CIVIL DRAWINGS FOR DETAILS.

SYMBOL	UNDERGROUND WIRE AND CONDUIT SIZE
①	2 #10 RWU90 + 1 #12 TW GROUND IN 27mm RIGID PVC CONDUIT (LIGHT POLE #1)
②	2 #10 RWU90 + 1 #12 TW GROUND IN 27mm RIGID PVC CONDUIT (LIGHT POLE #2)
③	2 #10 RWU90 + 1 #12 TW GROUND IN 27mm RIGID PVC CONDUIT (LIGHT POLE #3)
④	5 #6 RW90 + 6 #4 RW90 + 1 #4 TW GROUND IN 53mm RIGID PVC CONDUIT (PEDESTAL #2)
⑤	2 #8 RW90 + 6 #6 RW90 + 3 #4 RW90 + 1 #4 TW GROUND IN 53mm RIGID PVC CONDUIT (PEDESTAL #1)

TRENCH DETAIL B  
N.T.S.