

# HORNSBY SHIRE COUNCIL

## PROPOSED PUBLIC PONTOON AT DANGAR ISLAND

DRAWING LIST	
DRAWING No.	DRAWING TITLE
30011999-1001	TITLE SHEET, DRAWING LIST AND GENERAL NOTES
30011999-1002	GENERAL ARRANGEMENT PLAN
30011999-1003	WHARF SECTIONS SHEET 1
30011999-1004	WHARF SECTIONS SHEET 2
30011999-1005	GANGWAY DETAILS

### GENERAL

THESE DRAWINGS SHALL BE READ IN CONJUNCTION WITH ALL OTHER DRAWINGS AND SPECIFICATIONS AND WITH SUCH OTHER WRITTEN INSTRUCTIONS AS MAY BE ISSUED DURING THE COURSE OF THE CONTRACT. ANY DISCREPANCY SHALL BE REFERRED TO THE PRINCIPAL'S AUTHORISED REPRESENTATIVE BEFORE PROCEEDING WITH THE WORK.

ALL MATERIALS AND WORKMANSHIP SHALL BE IN ACCORDANCE WITH THE RELEVANT AND CURRENT AUSTRALIAN STANDARDS.

ALL SETOUT ARRANGEMENTS AND DIMENSIONS SHOWN SHALL BE VERIFIED BY THE CONTRACTOR ON SITE BEFORE WORK COMMENCES. DRAWINGS SHALL NOT BE SCALED FOR DIMENSIONS.

BEFORE UNDERTAKING ANY WORK, ESTABLISH THE LOCATIONS OF ALL EXISTING SERVICES AFFECTED BY THE WORKS. IF NECESSARY, CARRY OUT PRELIMINARY INVESTIGATION TO DIAL-BEFORE-YOU-DIG. ADVISE THE PRINCIPAL'S AUTHORISED REPRESENTATIVE IF THERE ARE ANY UNKNOWN SERVICES WHICH CAN POTENTIALLY BE AFFECTED BY THE WORKS.

DURING CONSTRUCTION THE STRUCTURE SHALL BE MAINTAINED IN A STABLE CONDITION AND NO PART SHALL BE OVERSTRESSED. TEMPORARY BRACING AND BATTERS SHALL BE PROVIDED BY THE CONTRACTOR TO KEEP THE WORKS AND EXCAVATIONS STABLE AT ALL TIMES.

THE CONTRACTOR SHALL ENGAGE A TEMPORARY WORKS ENGINEER TO ADVISE ON THE LIFTING LOCATIONS AND SEQUENCING DURING TRANSPORTATION AND INSTALLATION. THE CONTRACTOR SHALL CERTIFY THE ADEQUACY OF THE WORKS FOR TRANSPORTATION AND INSTALLATION.

THE CONTRACTOR SHALL PROVIDE TEST CERTIFICATES FROM A N.A.T.A. APPROVED TESTING LABORATORY CERTIFYING THAT THE MATERIALS USED COMPLY WITH THE RELEVANT SPECIFICATIONS.

UNLESS NOTED OTHERWISE ALL LEVELS ARE IN METRES RELATIVE TO CHART DATUM. ALL DIMENSIONS ARE IN MILLIMETRES.

### PILING

PILING WORK SHALL BE CARRIED OUT IN ACCORDANCE WITH AS 2159 AND TO THE REQUIREMENTS SPECIFIED IN THE DRAWINGS & SPECIFICATIONS.

THE CONTRACTOR SHALL MAINTAIN A COPY OF AS 2159 ON SITE AT ALL TIMES DURING THE CONTRACT PERIOD.

STEEL PILES SHALL BE SUPPLIED MANUFACTURED AND FABRICATED IN ACCORDANCE WITH AS 1579 FOR WELDED TUBULAR STEEL PILES AND AS 1863 FOR COLD FORMED STEEL HOLLOW SECTIONS. ALL WORKMANSHIP AND MATERIALS SHALL BE IN ACCORDANCE WITH AS 4100 AND AS 1554 EXCEPT WHERE VARIED BY THE CONTRACT DOCUMENTS.

PRIOR TO INSTALLATION OF PILES THE CONTRACTOR SHALL PROBE THE PROPOSED PILE LOCATIONS IN ORDER TO ASSESS SEABED AND ROCK LEVELS. RESULTS OF PROBING SHALL BE MADE AVAILABLE TO THE PRINCIPAL'S AUTHORISED REPRESENTATIVE ON REQUEST.

ALL PILE TOES AND HEADS MUST BE PREPARED BY THE CONTRACTOR TO ENSURE THAT THEY WILL NOT BE DAMAGED DURING INSTALLATION. THE CONTRACTOR WILL BE REQUIRED TO SATISFY THE PRINCIPAL'S AUTHORISED REPRESENTATIVE OF THIS FOR THE PARTICULAR TYPE OF PILE AND METHOD OF INSTALLATION SELECTED.

THE CONTRACTOR SHALL MAINTAIN RECORDS FOR ALL PILES AS REQUIRED UNDER THE PROVISIONS OF CLAUSE 7.6 OF AS 2159. ACCURATE RECORDS OF ROCK LEVELS AND FOUNDING LEVEL OF PILES SHALL BE KEPT AND PROVIDED TO THE CONTRACTOR'S AUTHORISED PERSON WITHIN 7 DAYS OF INSTALLING THE PILE.

MINIMUM EMBEDMENT OF THE PILES SHALL BE AS SHOWN ON THE DRAWINGS. EMBEDMENT RELATES TO FIRM SAND OR CLAY OR SOCKETING INTO ROCK AND EXCLUDES SOFT SILTY MATERIAL.

IF NO ULTIMATE CAPACITY IS SHOWN, PROVIDE AT LEAST 300 MM ULTIMATE AXIAL CAPACITY PRIOR TO UNDERTAKING PILING WORKS. THE CONTRACTOR SHALL SUPPLY CALCULATIONS OF THE REQUIRED SET FOR APPROVAL BY THE PRINCIPAL'S AUTHORISED REPRESENTATIVE.

PILES SHALL BE DRIVEN SUCH THAT THE PILE AXIS IS WITHIN 75 MM OF THE SPECIFIED PLAN POSITION INDICATED ON THE DRAWINGS. MEASURED AT THE PILE HEAD, VARIATION FROM VERTICALITY OR THE BAKE SPECIFIED SHALL NOT EXCEED 1 IN 75. VARIATION FROM THE SPECIFIED ELEVATION OF TOP OF PILES SHALL BE WITHIN 10 MM AND THE PILE HEAD SHALL BE CUT SQUARE TO THE PILE AXIS UNLESS SHOWN OTHERWISE ON THE DRAWINGS.

### PILING cont'd

SOCKETED PILES SHALL BE PLACED AS FOLLOWS UNLESS OTHERWISE APPROVED BY THE PRINCIPAL'S AUTHORISED REPRESENTATIVE. HOLES SHALL BE BORED INTO SOUND ROCK TO RECEIVE THE PILES. THE DIAMETER OF THE HOLES SHALL BE LESS THAN THE OUTSIDE DIAMETER OF THE PILE. THE PILE SHALL BE DRIVEN INTO THE "INTERFERENCE FIT" HOLE.

THE CONTRACTOR SHALL ENSURE THAT THE CONSTRUCTION METHOD DOES NOT OVERSTRESS ANY ELEMENT OF THE WORKS, AND IN DETERMINING HIS PROPOSED CONSTRUCTION METHOD HE SHALL GIVE DUE CONSIDERATION TO THE EFFECTS OF NOISE AND VIBRATION ON THE SURROUNDING ENVIRONMENT.

ALL PILES SHALL BE INSTALLED UNDER PERIODIC INSPECTION OF THE PRINCIPAL'S AUTHORISED REPRESENTATIVE. THE CONTRACTOR SHALL PROVIDE ONE WORKING DAY'S NOTICE OF HIS INTENTION TO DRIVE PILES, SO THAT THE CONTRACTOR'S AUTHORISED PERSON CAN ARRANGE FOR ATTENDANCE.

THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE PRINCIPAL'S AUTHORISED REPRESENTATIVE IF IN THE CONTRACTOR'S OPINION, GROUND CONDITIONS VARY FROM THOSE SHOWN ON THE DRAWINGS OR INDICATED BY THE REPORT OF THE GEOTECHNICAL INVESTIGATION. WORK SHOULD HOWEVER PROCEED IN ACCORDANCE WITH THE CONTRACTOR'S APPROVED METHOD FOR INSTALLATION OF THE PILE THROUGH THE GROUND.

ANY PILES WHICH ARE DAMAGED DURING THE EXECUTION OF THE WORKS BY THE CONTRACTOR, OR WHICH DO NOT COMPLY WITH THE SPECIFIED TOLERANCES SHALL BE MADE GOOD OR REPLACED AS THE PRINCIPAL'S AUTHORISED REPRESENTATIVE MAY DIRECT, ALL AT THE CONTRACTOR'S EXPENSE.

A MINIMUM OF 80% OF ALL PILES SHALL BE DYNAMICALLY TESTED IN ACCORDANCE WITH THE REQUIREMENTS OF SECTION 8.4 OF AS2159.

REGARDLESS OF THE LOAD CRITERIA, PILES ARE TO BE FOUND TO A MINIMUM OF 2000mm INTO FIRM SAND OR CLAY OR BETTER UNLESS OTHERWISE SPECIFIED. UNLESS THE TEST LEVELS SPECIFIED HAVE BEEN ACHIEVED, WHEN A PENETRATION OF LESS THAN 20mm PER BLOW IS ACHIEVED, WITH THE SELECTED FINAL DRIVE HAMMER OPERATING AT NORMAL EFFICIENCY AND STROKE.

### STAINLESS STEEL

ALL WORKMANSHIP AND MATERIALS SHALL BE IN ACCORDANCE WITH AS 4473.

STAINLESS STEEL TO BE GRADE 316 OR BETTER, WHERE STAINLESS STEEL IS TO BE WELDED, GRADE 316L (LOW CARBON) OR GRADE 2205 DUPLEX IS TO BE USED.

ALL WELDING OF STAINLESS STEEL SHALL BE IN ACCORDANCE WITH AS 1554.4. CONTINUOUS SEAL WELDS UNO.

### ALUMINIUM

ALL WORKMANSHIP AND MATERIALS SHALL BE IN ACCORDANCE WITH CURRENT EDITIONS S.A.A. CODES AND AS1664 EXCEPT WHERE VARIED BY THE CONTRACT DOCUMENT.

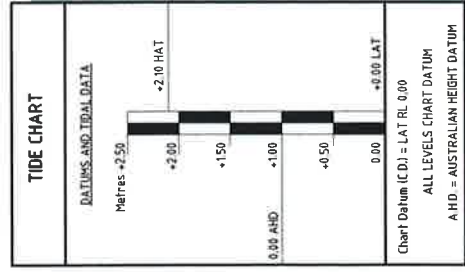
ALL ALUMINIUM SHALL BE IN ACCORDANCE WITH AS1664, & THE TYPE OF GRADE 6061-T6 UNLESS NOTED OTHERWISE IN THE DRAWINGS.

ALL WELDS SHALL BE FULL STRENGTH BUTT WELDS UNO. ALL WELDING SHALL BE PERFORMED BY QUALIFIED WELDER IN ACCORDANCE WITH AS1664 & AS1665 WELD CATEGORY B.

ALL HOLES SHALL BE 2mm LARGER THAN THE NOMINAL BOLT DIAMETER UNO. SLOTTED HOLES AND BOLT TENSILING SHALL COMPLY WITH AS1571. HOLES FOR HOLD DOWN BOLTS SHALL BE 4mm OVERSIZE UNO.

ALL BOLTS TO BE STAINLESS STEEL GRADE 316 MIN. WITH NEOPRENE WASHERS & BUSHES UNO.

SEAL THE ENDS OF ALL TUBULAR MEMBERS WITH 5mm THICK PLATES OF THE SAME GRADE & CONTINUOUS SEAL WELDS UNO.



## ISSUED FOR TENDER



NO.	NAME	DESIGNER	SCALE
1	G. CAMPBELL	SMC AUSTRALIA PTY LTD	AS NOTED
2	S. DRIVELY	SMC AUSTRALIA PTY LTD	AS NOTED
3	H. SARGER	SMC AUSTRALIA PTY LTD	AS NOTED
4	PROJECT MANAGER	SMC AUSTRALIA PTY LTD	AS NOTED

NO.	DATE	REVISION
1	18/02/2014	PRELIMINARY ISSUE
2	09/12/2016	ISSUED FOR CLIENT REVIEW
3	22/12/16	ISSUED FOR TENDER
4	07/03/17	REVISED FOR TENDER

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**LEGEND:**

- ① BERTHING PONTOON (CONCRETE DECK, NON-SLIP, COARSE BROOM FINISH)
- ② PONTOON PILES - 610 O.D. x 12.7 THK WALL GR 350
- ③ FENDER PILES - 508 O.D. x 16 THK WALL GR 350
- ④ WALKWAY PILES - 457 O.D. x 12.7 THK WALL GR 350

**NOTE**

- GANGWAY LENGTH HAS BEEN PROVIDED TO ALLOW A SLOPE OF 1 IN 14 AT THE 80% TIDE LEVEL OF APPROXIMATELY 0.55c D. (i.e. LESS THAN 20% OF THE TIDE GANGWAY SLOPE WILL EXCEED 1 IN 14, WITH MOST OF THAT THE OUTSIDE NORMAL OPERATIONAL HOURS).
- MAXIMUM GANGWAY SLOPE AT 0.0 CD TIDE IS APPROXIMATELY 1 IN 9.5

**CONSTRUCTION STAGING**

THE CONTRACTOR SHALL GIVE CAREFUL CONSIDERATION TO CONSTRUCTION STAGING OF THE PROPOSED FACILITY DUE TO THE CRITICAL NATURE OF THE EXISTING JETTY FOR ACCESS TO THE ISLAND.

PROVISION SHOULD BE MADE IN THE PROJECT SCHEDULE TO ALLOW THE SERVICES OPERATING AT DANGAR ISLAND JETTY TO OPERATE WITH MINIMAL DISRUPTION DURING THE CONSTRUCTION OF THE NEW FACILITIES AS FAR AS PRACTICAL THE PONTOON SHALL BE READY TO COMMENCE OPERATION AS SOON AS THE GANGWAY IS INSTALLED.

**INDICATIVE CONSTRUCTION SEQUENCE**

1. INSTALLATION OF THE PONTOON PILES.
2. INSTALLATION OF THE PONTOON
3. PREPARATION OF THE JETTY FOR GANGWAY INSTALLATION.
4. INSTALLATION OF THE GANGWAY.

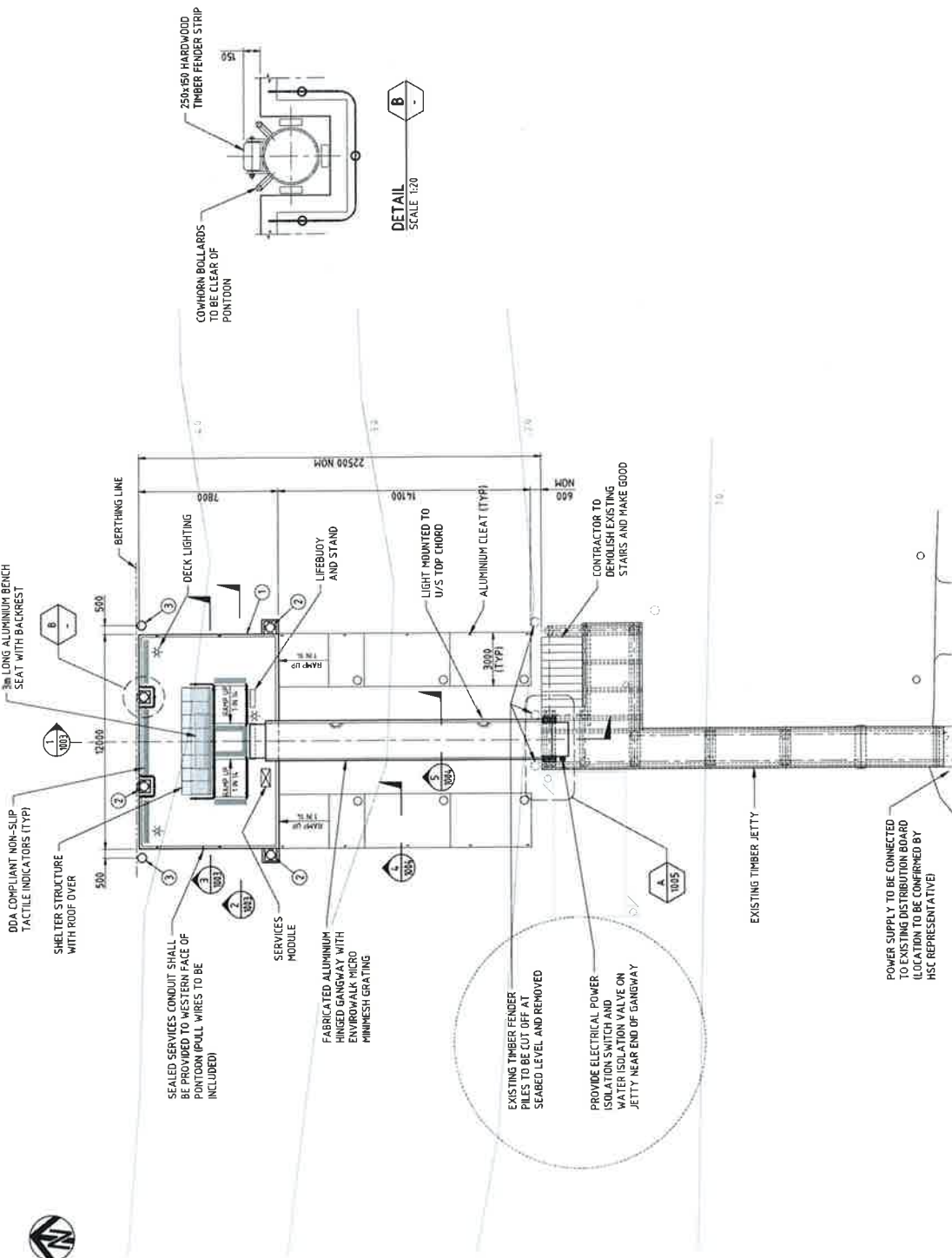
FOLLOWING INSTALLATION OF THE GANGWAY:

5. CONNECTION OF LIGHTING SERVICES
6. INSTALLATION OF WALKWAY PILES
7. FINAL SETOUT
8. DEMOBILISATION

**DESIGN CRITERIA**

THE STRUCTURAL COMPONENTS SHOWN ON THESE DRAWINGS SHALL BE DESIGNED IN ACCORDANCE WITH THE RELEVANT AUSTRALIAN STANDARDS INCLUDING AS 1170 AND AS 3962 FOR THE FOLLOWING LOADINGS:

ITEM	LIVE LOAD
FIXED STRUCTURE DECKS	3 kN/m <sup>2</sup>
GANGWAY	4 kN/m <sup>2</sup>
WAVE	1 IN 50YR Hs=0.9m (WEST) 1 IN 1YR Hs=0.6m (WEST)
CURRENT	1% ANNUAL EXCEEDANCE PROBABILITY 2.5m/s 20% ANNUAL EXCEEDANCE PROBABILITY 1.6m/s
DEBRIS	10kN/m FACE OF PONTOON
SHELTER STRUCTURE WIND LOAD	REGIONAL WIND SPEED - 15 TERRAIN CATEGORY - 15 TERRAIN HEIGHT MULTIPLIER - M <sub>top</sub> = 0.75 REGIONAL WIND SPEED - V <sub>ref</sub> = 46m/s



**GENERAL ARRANGEMENT PLAN**  
SCALE: 1:250

REV	DATE	DESCRIPTION	BY	CHECKED	DATE
01	23.02.2016	ISSUED FOR COMMUNITY CONSULTATION	J. DRAKE	G. CAMPBELL	
02	19.12.2016	ISSUED FOR CLIENT REVIEW	J. DRAKE	J. DRAKE	
03	22.12.2016	ISSUED FOR TENDER	J. DRAKE	J. DRAKE	
04	02.02.2017	RE-ISSUED FOR TENDER	J. DRAKE	J. DRAKE	
05	15.02.2017	RE-ISSUED FOR TENDER	J. DRAKE	J. DRAKE	
06	03.03.2017	RE-ISSUED FOR TENDER	J. DRAKE	J. DRAKE	

**ISSUED FOR TENDER**

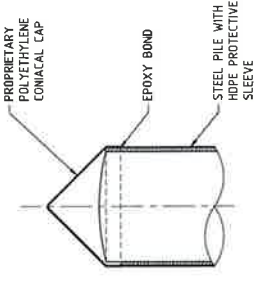
**SMC AUSTRALIA PTY LTD**  
SMC AUSTRALIA PTY LTD  
401/47 002 015 1st FL  
NEWCASTLE NSW 2300  
PH: 012 400 8000 FAX: 012 4001 9999  
SMC PROJECT NO: 30011999

**HORNSBY SHIRE COUNCIL**

PROJECT TITLE: HORNSBY SHIRE COUNCIL  
PROPOSED PUBLIC PONTOON AT DANGAR ISLAND  
**GENERAL ARRANGEMENT PLAN**

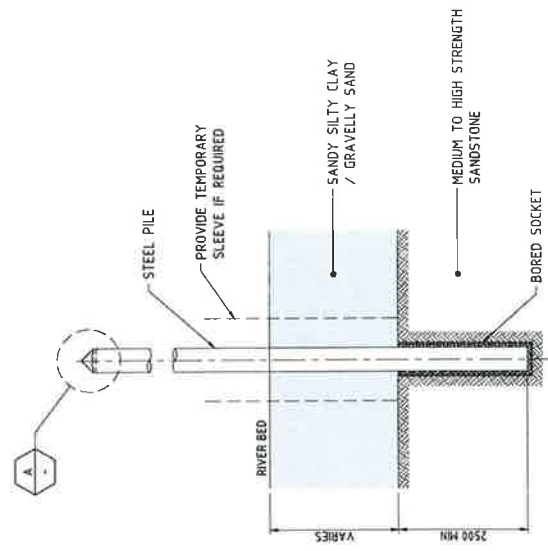
DATE: 03/03/2017  
DRAWN BY: J. DRAKE  
CHECKED BY: G. CAMPBELL  
PROJECT MANAGER: J. DRAKE  
PROJECT NUMBER: 30011999-1002



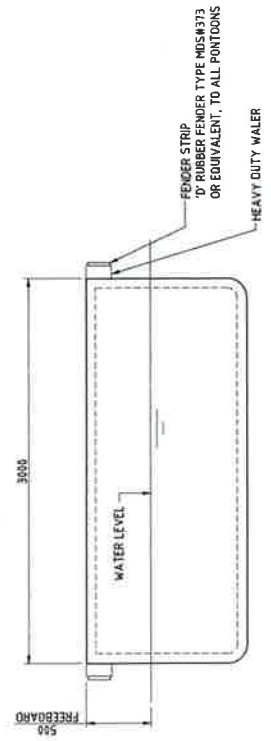


**DETAIL**  
SCALE 1:10

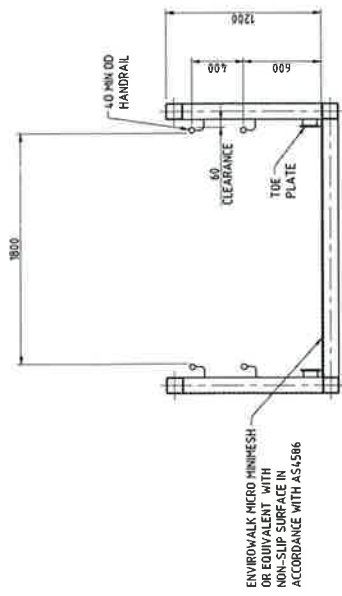
**PILE CAP DETAIL**



**PILE DETAIL**  
SCALE 1:50



**SECTION**  
SCALE 1:20



**SECTION**  
SCALE 1:20

**ISSUED FOR TENDER**



**SMC**  
SMC AUSTRALIA PTY LTD  
100 WILSON ST  
SYDNEY NSW 2000  
PH: 02 9555 9000 FAX: 02 9555 3000  
SMC PROJECT NO 30011999

SCALE 1:10

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SCALE 1:50

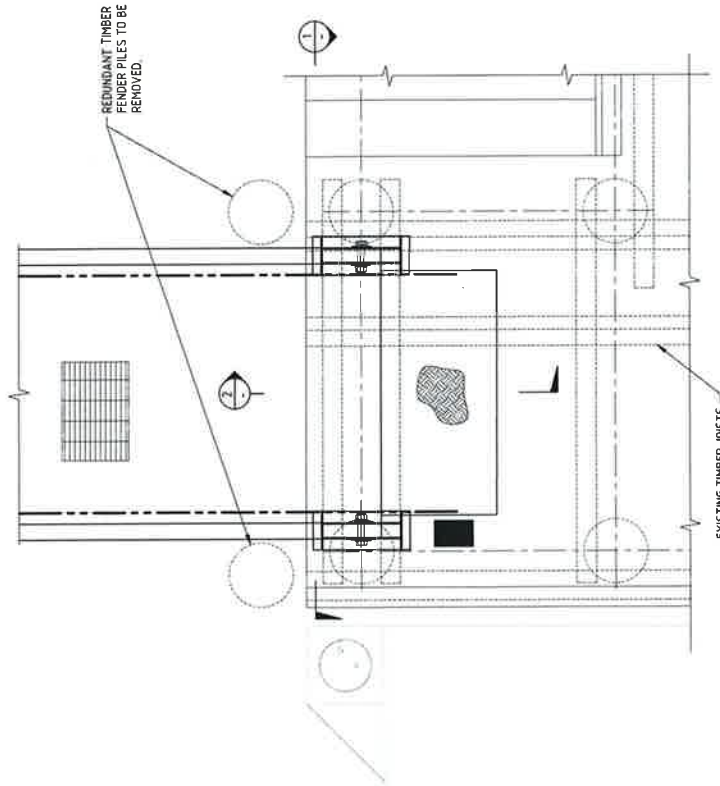
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SCALE 1:100

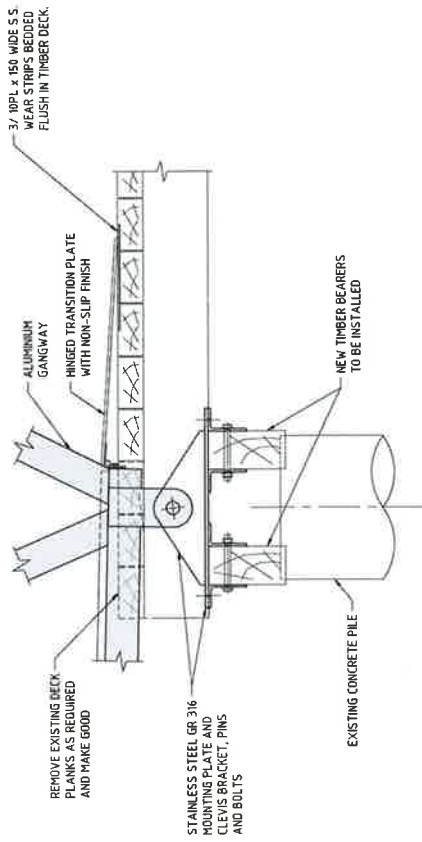
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NO	DATE	REVISION / DESCRIPTION	BY	CHECKED	TIME
01	19/02/2016	PRI-MARY ISSUE	G. CAMPBELL		10:42:27
02	09/12/2016	ISSUED FOR CLIENT REVIEW	S. DRAGEV		
03	23/12/2016	ISSUED FOR TENDER	H. SAGER		
04	01/03/2017	RE-ISSUED FOR TENDER			

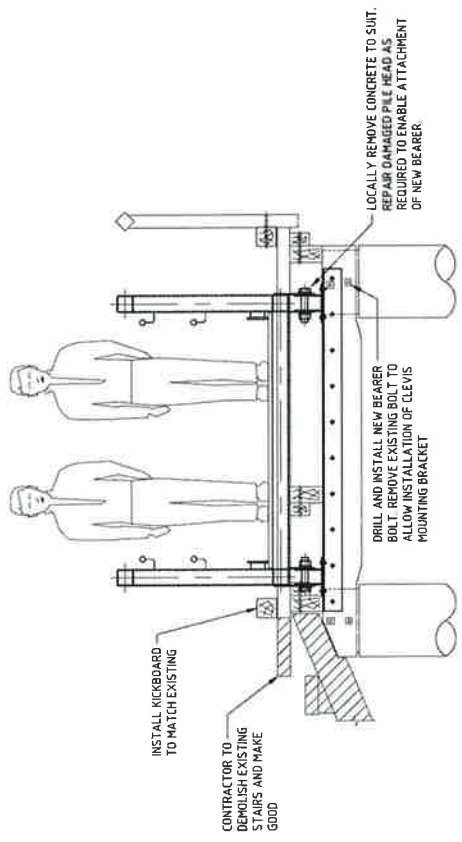
PROJECT TITLE	HORNSBY SHIRE COUNCIL PROPOSED PUBLIC PINTON AT DANGAR ISLAND WHARF SECTIONS SHEET 2
PROJECT NUMBER	30011999-1004
PROJECT DIRECTOR	TENDER



**DETAIL**  
SCALE 1:20  
**GANGWAY FIXED END**



**DETAIL**  
SCALE 1:10  
**GANGWAY ROLLER END**



**SECTION**  
SCALE 1:20

**SECTION**  
SCALE 1:10

ISSUED FOR TENDER

PROJECT TITLE: HORNSBY SHIRE COUNCIL PROPOSED PUBLIC PONTOON AT DANIGAR ISLAND GANGWAY DETAILS

CLIENT: HORNSBY SHIRE COUNCIL

DATE: 06/03/2019

PROJECT / DRAWING NO: 30011999-1005

SCALE: AS NOTED TENDER

PROJECT MANAGER: W. SAGER

PROJECT ENGINEER: S. DRAGLEY

PROJECT ARCHITECT: G. CAMPBELL

PROJECT CONTRACTOR: BULLOCK PT LTD

SMC AUSTRALIA PTY LTD  
14 HUNTER STREET  
NEWCASTLE NSW 2300  
PH: 41 111 111  
SMC PROJECT NO: 30011999

SMC PROJECT NO: 30011999

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05	27/02/2017	RE-ISSUED FOR TENDER	JK	JK	
06	01/03/2017	RE-ISSUED FOR TENDER	JK	JK	

SCALE	0	0.1	0.2	0.3	0.4	0.5
SCALE 1:10						
SCALE 1:20						

**ISSUED FOR TENDER**

PROJECT TITLE: HORNSBY SHIRE COUNCIL PROPOSED PUBLIC PONTOON AT DANIGAR ISLAND GANGWAY DETAILS

CLIENT: HORNSBY SHIRE COUNCIL

DATE: 06/03/2019

PROJECT / DRAWING NO: 30011999-1005

SCALE: AS NOTED TENDER

PROJECT MANAGER: W. SAGER

PROJECT ENGINEER: S. DRAGLEY

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