

6 January 2023

Michael Andrew Beare
C/- Project Urban (Trish Belt)
PO Box 638
MAROOCHYDORE BC QLD 4558

Dear Ms Belt,

Referral Agency Response – Approved with Conditions – RR2022/011/01

(GIVEN UNDER SECTION 56 PLANNING ACT 2016)

1. Application Details

This development application was **referred** to the Gladstone Ports Corporation Limited on **16 December 2022**.

Application Number:	RR2022/011/01
Applicant Name:	Michael Andrew Beare Trustee under instrument 721417513
Applicant Contact Details:	C/- Project Urban (Trish Belt) PO Box 638 MAROOCHYDORE BC QLD 4558 Trish.belt@projecturban.com.au
Approval Sought:	Operational works for Prescribed Tidal Works – Private Pontoon, restraint piles and walkway
Location Street Address:	24 O'Brien Street GRANVILLE QLD 4650
Location Real Property Description:	Lot 21 SP289765
Present Zoning:	Residential and Maryborough MSQ Port Area (tidal water)
Local Government Area:	Fraser Coast

2. Details of Proposed Development

- Operational works for Prescribed Tidal Works with Port Limits – Private Pontoon, restraint piles and walkway.

Establishment of a pontoon facility and ancillary structures within the Mary River at the riverfront of the site (24 O'Brien Street, Granville).

3. Referral Triggers

This development application was referred to the Gladstone Ports Corporation Limited under the following provision of the *Planning Regulation 2017*

Referral Trigger: Schedule 10, part 13, division 3, table 1, item 1 –

- a) Prescribed assessable development within limits of a port and
- b) On land below high-water mark and within the limits of a port under the *Transport Infrastructure Act 1994*.

4. Details of Referral Response

Referral agency powers: Referral agency powers are not limited in this response.

This development application has been assessed against port authority functions under the *Transport Infrastructure Act 1994*, Chapter 8, Part 3 as required in Schedule 10, Part 13, Division 3, Table 1, Item 4 of the *Planning Regulation 2017* and also matters referred to in Section 22, Part 3.

The Gladstone Ports Corporation Limited directs the assessment manager, under section 56(1)(b)(i) of the *Planning Act 2016* to give any development approval subject to development conditions staged in Attachment 1.

5. Approved Plans

Drawing/report title	Prepared by	Date	Reference no.
Site Plan and Water Allocation	The Marina Specialist Trading as the Jetty Specialist	16/03/2022	JSP-04643-01 Rev A
Layout Plan	The Marina Specialist Trading as the Jetty Specialist	16/03/2022	JSP-04643-02 Rev A
Elevation	The Marina Specialist Trading as the Jetty Specialist	31/05/2022	JSP-04643-013 Rev D
Starter Jetty Details	The Marina Specialist Trading as the Jetty Specialist	16/03/2022	JSP-04643-04 Rev A
Standard Catwalk Construction	The Marina Specialist Trading as the Jetty Specialist	14/01/2021	JSP-GW-006 Rev M
Headstock & Catwalk Connection	The Marina Specialist	06/10/2010	JSP-DS-040 Rev E
Pile Bracket Construction To suit 400Ø – 450Ø Piles & B Roller Bracket	The Marina Specialist Trading as the Jetty Specialist	09/09/2020	JSP-SD-142 Rev F

Drawing/report title	Prepared by	Date	Reference no.
Steel Pile & H.D.P.E. Sleeve Details	The Marina Specialist Trading as the Jetty Specialist	14/01/2019	JSP-SC-045 Rev B
FRP Reinforced Pontoon Construction Standard Flat Deck and Float A Boat Pontoons	The Marina Specialist Trading as the Jetty Specialist	09/09/2020	JSP-SD-212 Rev D

For further information please contact Trudi Smith, Planning Specialist on 07 4976 1314 or the undersigned on 07 4976 1287 or via email planning@gpcl.com.au .

Yours sincerely,



Erin Clark
Principal Planner

Cc: Assessment Manager – Fraser Coast Regional Council

Attachment 1 Referral Agency Conditions

General

1. Unless otherwise stated, all conditions must be complied with and completed prior to the commencement of the development.
2. Where additional “approval” is required under these conditions by the Referral Agency (Gladstone Ports Corporation Limited) for drawings or documentation the proponent must submit for review, amend to the satisfaction of, and obtain written approval from the Referral Agency.

Furthermore, the Referral Agency will require no less than 10 business days, unless otherwise conditioned by the Assessment Manager, to initially assess the drawings or documentation provided prior to the commencement of the works. Should further information be required for assessment, the Referral Agency will require a further 5 business days to complete the information request assessment and response.

3. The development must be a designed and constructed to mitigate potential adverse impacts to port functions, services and facilities, and to maintain safe navigable access within Port Limits.

Engineering

4. Upon completion of the works, the proponent must supply the Referral Agency with certification from an RPEQ Certified Engineer that the development is constructed as per design and generally in accordance with the Approved plans.
5. The proponent must inform the Referral Agency of completion of works within Port Limits within 14 days of practical completion and certify that the site is fit for purpose.
6. Any site lighting used during construction / development should not negatively impact on the visibility of Navigational Aids utilised for the primary shipping channels within Port Limits nor illuminate a landward glare beyond the site boundary. Lighting must be reviewed during construction and use of the development with respect to navigation. Where an issue is identified or a validated complaint received, the proponent must immediately rectify to the satisfaction of the Referral Agency.
7. Any material which is deposited or any debris which falls or is deposited within Port Limits during the construction of the approved development shall be removed by the applicant at their cost and expense prior to the commencement of the use of approved structure. The applicant is to notify the Referral Agency if any material or debris is deposited.
8. Upon completion of construction, the applicant shall provide the Referral Agency with written confirmation that the seabed is clear of foreign materials.
9. If, as a result of the works, or other cause attributable to the proponent, any bank or tidal structure within Port Limits is displaced, the proponent at its cost and expense shall restore the bank or structure to its former condition and take such other action as is necessary to ensure the stability of the bank or structure to the satisfaction of the Regional Harbour Master.

Construction Vessel Management

10. If deemed necessary by the Regional Harbour Master and prior to works within Port Limits commencing, supply to the Referral Agency a Marine Execution Plan that has been approved by the Regional Harbour Master, suitable to the scale of works being undertaken.
11. Prior to works within Port Limits commencing, the proponent or their contractor must supply to the Referral Agency for review and approval an Emergency Management Plan for the works within Port Limits for all potential incidents e.g. contaminant spill, riverine flood, adverse weather etc.
12. Prior to works within Port Limits commencing, the proponent or their contractor must supply to the Referral Agency for review and approval an Environmental Management Plan, work procedures or equivalent, for the construction works within Port Limits.
13. Environmental incident notification must be included in any Management Plans for the works within Port Limits.

Incident Notification

14. At all times, Gladstone Ports Corporation Environmental Hotline (07) 4976 1617 is to be notified of the occurrence of any:
 - a) Release / spill of contaminants (e.g. fuels / chemicals / sewerage) of any amount to water, and
 - b) Any environmental complains received by the holder of this approval.

Referral Agency Advice Notes

- A. Where the Applicant is required to submit further documentation to the Referral Agency, this is to be directed to the Planning section at planning@gpcl.com.au, including reference to the allocated referral response number.

Attachment 2 Approved Plans and Specifications

LOT 23

LOT 22

LOT 21
SP 289765

LOT 1
RP 143698

165861
120°44'

158794
120°43'40"

DUMPY-100
RL 3.962m

DUMPY-101
RL 3.537m

DUMPY-202
RL 2.25m

DUMPY-201
RL 2.0m

DUMPY-200
RL 2.0m

HWM

LWM

1500 WATER
ALLOCATION
BOUNDARY

WATER ALLOCATION
BOUNDARY

1500 WATER
ALLOCATION
BOUNDARY

EXISTING PONTOON

16300

28000

201.35 @ 210.44

← O'BRIEN ST →

Mary River

**SITE PLAN &
WATER ALLOCATION**
SCALE 1:500

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REV	DESCRIPTION	BY	DATE	APPD

ProjexPartners
PROJECT MANAGEMENT | ENGINEERING | PLANNING

CHECKED: *[Signature]* RPEQ: 6807 DATE: 12.08.2022

THE MARINA SPECIALIST
TRADING AS ACN 010633119 18 RON PARKINSON CRES
CORBOULD PARK QLD 4551 AUSTRALIA
THE Jetty SPECIALIST PHONE(07) 5492 5925

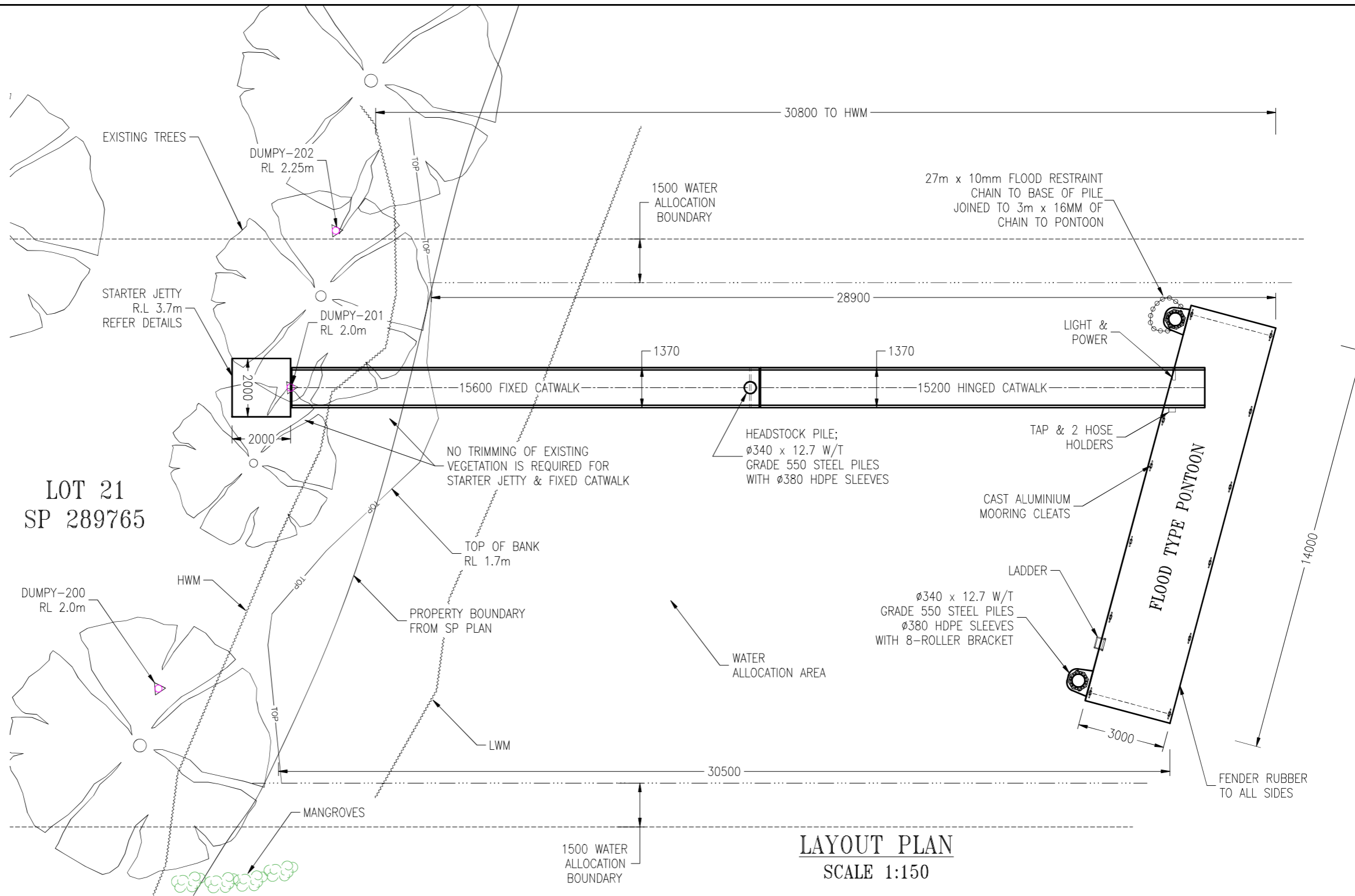
SURVEY DATA	
DATUM	
HORIZ. GRID	
HEIGHT ORIGIN	AHD DERRIVED
SURVEY BOOKS	

CLIENT: M BEARE
LOT 21 (24) O'BRIEN ST
GRANVILLE

PROJECT: PROPOSED PONTOON & CATWALK'S

TITLE: SITE PLAN & WATER ALLOCATION

DATE: 16/03/2022	UNITS: MM	SCALE: 1:500 1:100	SHEET: 1	A3
DRAWN: TDB	CHECKED: TDB	APPRD: TDB	DRG No: JSP-04643-01	REV: A



NOTES:

DESIGN LOADINGS:

LIVE LOAD:

PONTOON	- 1.5kPa
HINGED CATWALK	- 1.5kPa
FIXED CATWALK	- 2.0kPa
STARTER JETTY	- 2.0kPa

BERTHING:

MAXIMUM WET VESSEL LENGTH	- 16m
MAXIMUM WET VESSEL BEAM	- 5.2m

EXISTING STRUCTURES SHOWN IN APPROX POSITION

SPECIFICATIONS:

CARPET COLOUR	-	LIGHT GREY
CATWALK DECKING	-	ALUM & CARPET
STARTER JETTY DECKING	-	ALUM & CARPET
RUBBER FENDER COLOUR	-	
PILE CAPS	-	WHITE
LIGHT UNIT	-	LED, PE SWITCH, 1 SINGLE 15 AMP GPO

LAYOUT PLAN
SCALE 1:150

REV	DESCRIPTION	BY	DATE	APPD

ProjexPartners
PROJECT MANAGEMENT | ENGINEERING | PLANNING

CHECKED: *[Signature]* RPEQ: 6807 DATE: 12.08.2022

THE MARINA SPECIALIST
TRADING AS ACN 010633119 18 RON PARKINSON CRES CORBOULD PARK QLD 4551 AUSTRALIA PHONE(07) 5492 5925

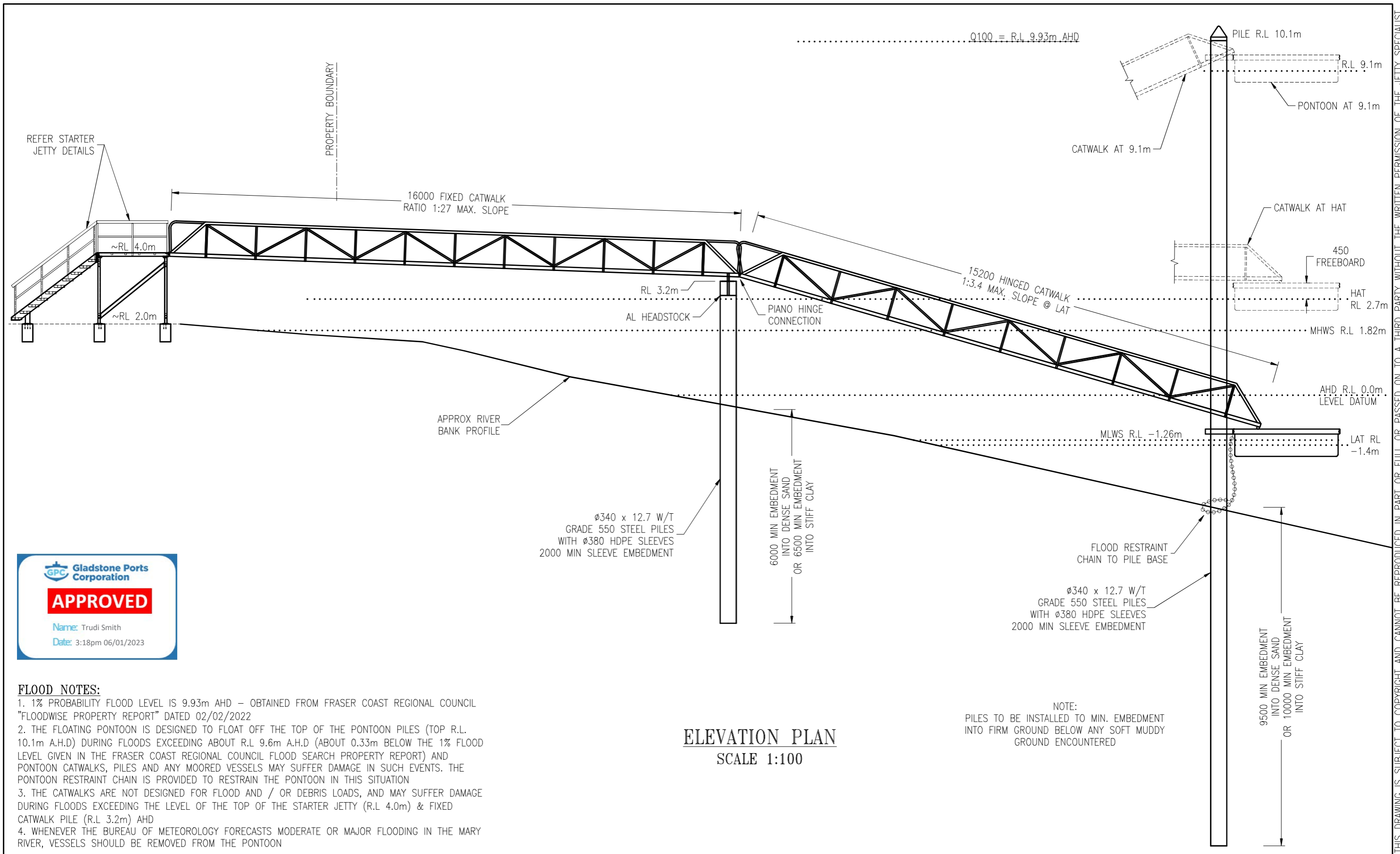
THE Jetty SPECIALIST

SURVEY DATA	
DATUM	
HORIZ. GRID	
HEIGHT ORIGIN	AHD DERRIVED
SURVEY BOOKS	

CLIENT: M BEARE LOT 21 (24) O'BRIEN ST GRANVILLE	PROJECT: PROPOSED PONTOON & CATWALK'S
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TITLE: LAYOUT PLAN	DATE: 16/03/2022	UNITS: MM	SCALE: 1:150	SHEET: 2	A3
DRAWN: TDB	CHECKED: TDB	APPRD: TDB	DRG No: JSP-04643-02	REV: A	

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FLOOD NOTES:

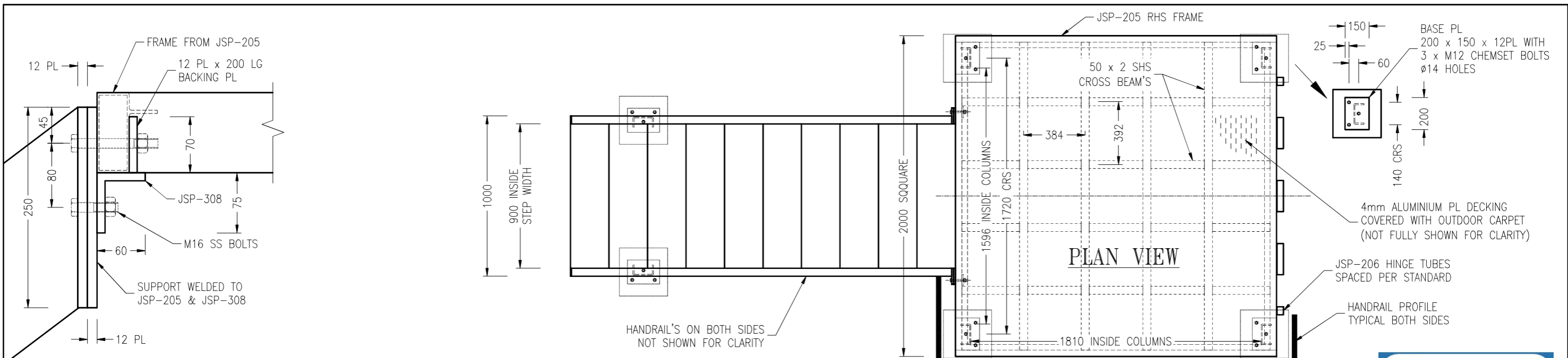
- 1% PROBABILITY FLOOD LEVEL IS 9.93m AHD - OBTAINED FROM FRASER COAST REGIONAL COUNCIL "FLOODWISE PROPERTY REPORT" DATED 02/02/2022
- THE FLOATING PONTOON IS DESIGNED TO FLOAT OFF THE TOP OF THE PONTOON PILES (TOP R.L. 10.1m A.H.D) DURING FLOODS EXCEEDING ABOUT R.L. 9.6m A.H.D (ABOUT 0.33m BELOW THE 1% FLOOD LEVEL GIVEN IN THE FRASER COAST REGIONAL COUNCIL FLOOD SEARCH PROPERTY REPORT) AND PONTOON CATWALKS, PILES AND ANY MOORED VESSELS MAY SUFFER DAMAGE IN SUCH EVENTS. THE PONTOON RESTRAINT CHAIN IS PROVIDED TO RESTRAIN THE PONTOON IN THIS SITUATION
- THE CATWALKS ARE NOT DESIGNED FOR FLOOD AND / OR DEBRIS LOADS, AND MAY SUFFER DAMAGE DURING FLOODS EXCEEDING THE LEVEL OF THE TOP OF THE STARTER JETTY (R.L. 4.0m) & FIXED CATWALK PILE (R.L. 3.2m) AHD
- WHENEVER THE BUREAU OF METEOROLOGY FORECASTS MODERATE OR MAJOR FLOODING IN THE MARY RIVER, VESSELS SHOULD BE REMOVED FROM THE PONTOON

NOTE:
PILES TO BE INSTALLED TO MIN. EMBEDMENT INTO FIRM GROUND BELOW ANY SOFT MUDDY GROUND ENCOUNTERED

ELEVATION PLAN
SCALE 1:100

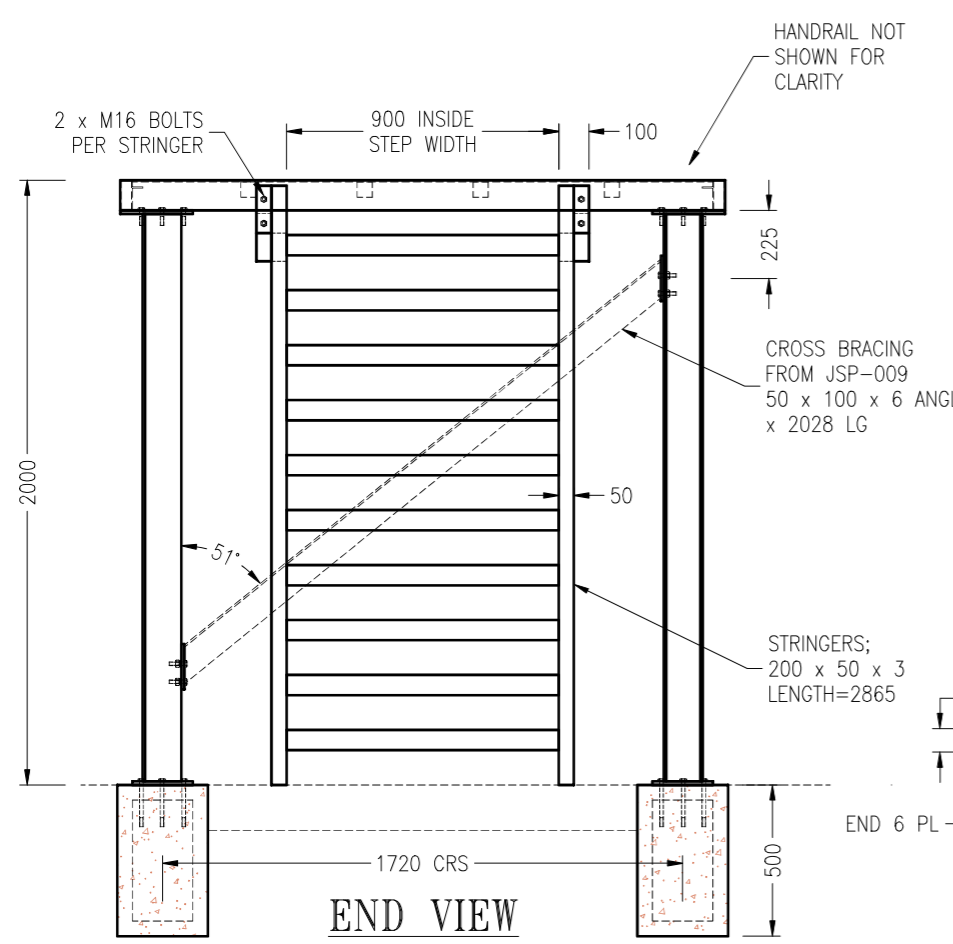
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								SURVEY DATA DATUM: HORIZ. GRID: HEIGHT ORIGIN: AHD DERRIVED SURVEY BOOKS:				CLIENT: M BEARE LOT 21 (24) O'BRIEN ST GRANVILLE				TITLE: ELEVATION							
PROJECT MANAGEMENT ENGINEERING PLANNING				TRADING AS ACN 010633119 18 RON PARKINSON CRES CORBOULD PARK QLD 4551 AUSTRALIA PHONE(07) 5492 5925				AS 1100				PROJECT: PROPOSED PONTOON & CATWALK'S				DATE: 16/03/2022 UNITS: MM SCALE: 1:100 SHEET: 3 DRAWN: TDB CHECKED: APPRD: DRG No: JSP-04643-03				REV: A3 D			
D INCREASED PILE HEIGHT & EMBEDMENT TDB 31/05/22 SB				C REVISED PILE WALL THICKNESS TO 12.7mm TDB 12/04/22 SB				B REVISED PILE HEIGHT RL & EMBEDMENT TDB 06/04/22 SB				REV DESCRIPTION BY DATE APPD				CHECKED: <i>Hall</i> RPEQ: 6807 DATE: 12.08.2022							

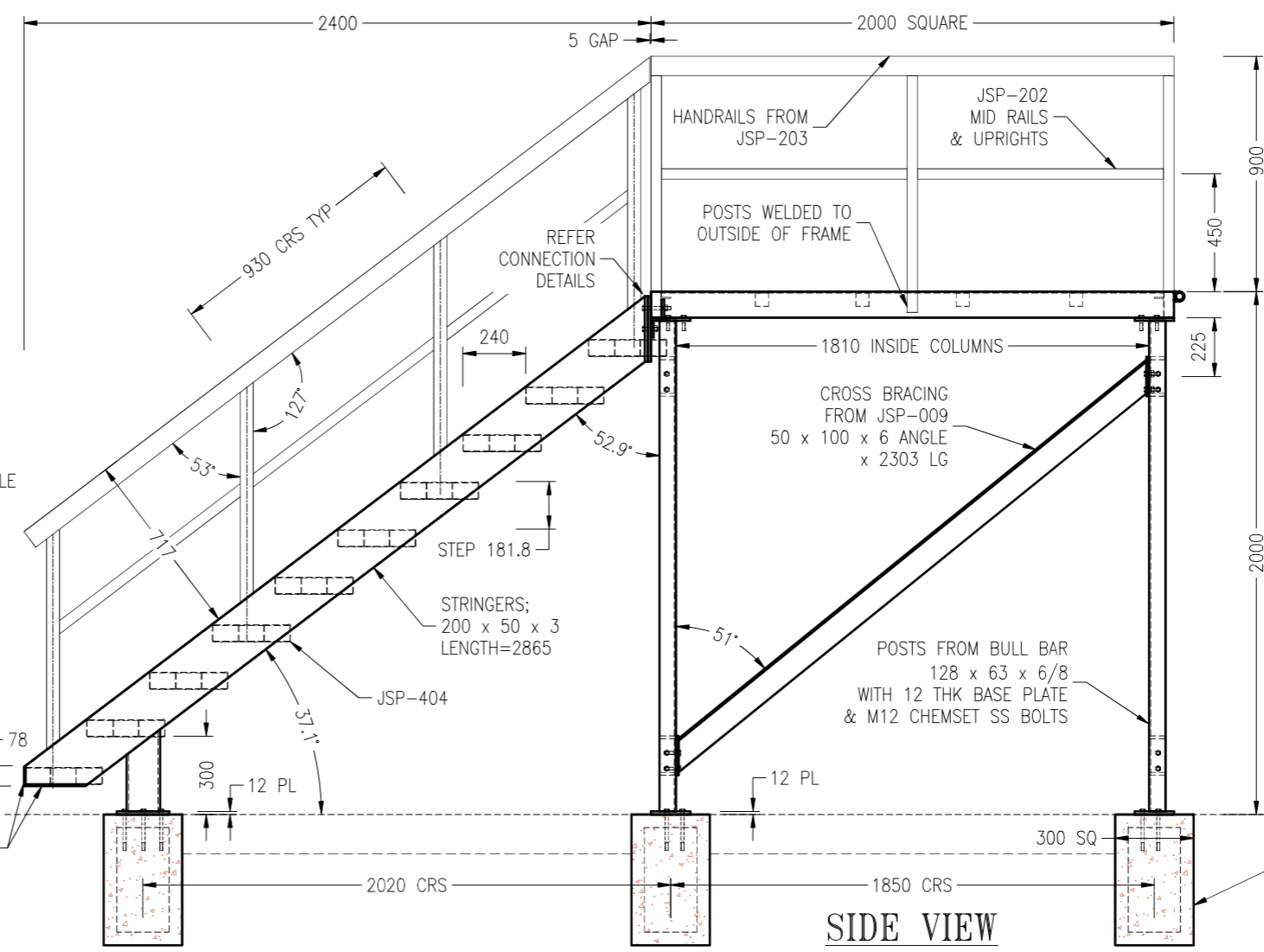


**CONNECTION
DETAILS**
SCALE 1:5

PLAN VIEW



END VIEW



SIDE VIEW

**STARTER JETTY
DETAILS**
SCALE 1:25

MASS (40mPa) CONCRETE FOOTINGS REINFORCED WITH G445A MESH CAGE (FOOTINGS/CONCRETE SLAB BY OTHERS)

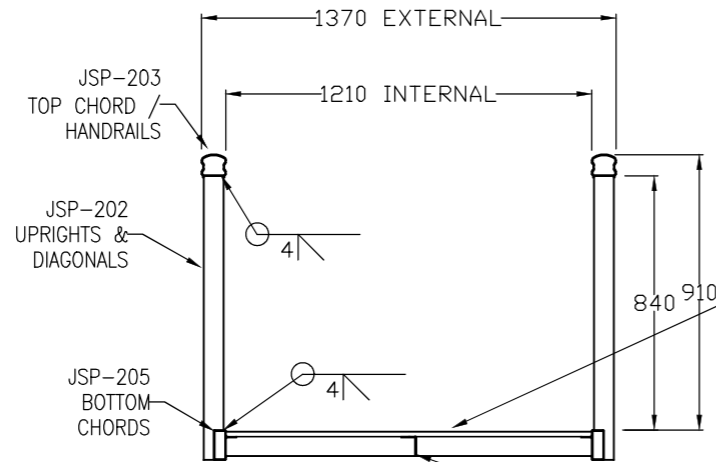
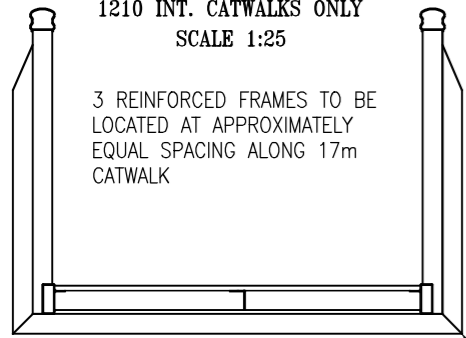
				THE MARINA SPECIALIST TRADING AS ACN 010633119 18 RON PARKINSON CRES CORBOULD PARK QLD 4551 AUSTRALIA PHONE (07) 5492 5925		SURVEY DATA DATUM HORIZ. GRID HEIGHT ORIGIN SURVEY BOOKS		CLIENT: M BEARE LOT 21 (24) O'BRIEN ST GRANVILLE PROJECT: PROPOSED PONTOON & CATWALK'S		TITLE: STARTER JETTY DETAILS DATE: 16/03/2022 UNITS: MM SCALE: 1:25 1:5 SHEET: 4 DRAWN: TDB CHECKED: [Signature] APPRD: [Signature] DRG No: JSP-04643-04		SHEET: 4 A3 REV: A		
REV	DESCRIPTION	BY	DATE	APPD	CHECKED: [Signature]	RPEQ: 6807	DATE: 12.08.2022	AS 1100	PROJECT:	DATE:	UNITS:	SCALE:	SHEET:	REV:

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REINFORCING FRAME

FOR 16.0m - 17m LONG
1210 INT. CATWALKS ONLY
SCALE 1:25

3 REINFORCED FRAMES TO BE LOCATED AT APPROXIMATELY EQUAL SPACING ALONG 17m CATWALK



SECTION A

SCALE 1:25

3mm ALUMINIUM PLATE FIXED TO FRAMING AT 250mm CRS WITH 4mm AL. RIVETS & COVERED WITH COMMERCIAL OUTDOOR CARPET. OR 125 X 25mm CCA TREATED & DRESSED F17 HARDWOOD PLANKS FIXED WITH 6 / 50 X 10 GAUGE STAINLESS STEEL SCREWS EACH PLANK.

JSP-002 ANGLE CROSS BEAMS AND LONGITUDINALS WELDED BETWEEN ALL CROSS MEMBERS FOR CATWALKS WITH TIMBER DECKING. (1.5kPa & 2kPa LIVE LOAD ONLY)

EXTRA JSP-202 FRAME STITCH WELDED TO OUTSIDE OF UPRIGHT

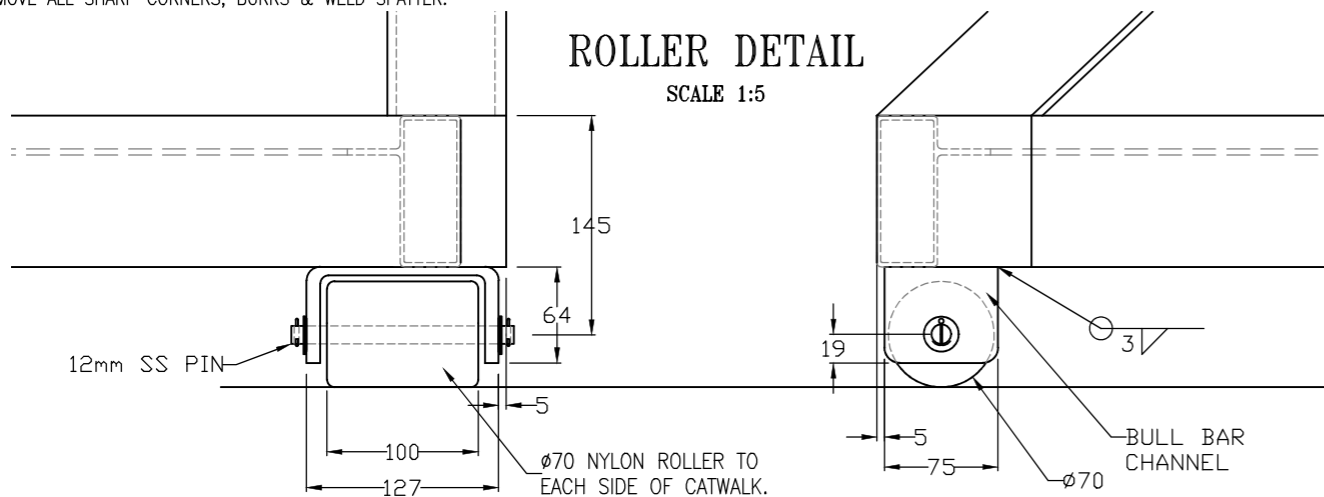
LIVE DECK LOAD	MAXIMUM CATWALK LENGTHS			
	1.5 kPa	2kPa	3kPa	4kPa
3 UPRIGHTS	7.5m	6.7m	6.0m	5.0m
5 UPRIGHTS	11.0m	10.0m	9.0m	8.5m
7 UPRIGHTS	13.0m	12.2m	11.5m	10.5m
9 UPRIGHTS	15.7m	13.9m	12.5m	11.0m
11 UPRIGHTS	17.7m	16.0m	12.7m	11.0m

NOTES:

- * ALL FRAMING MATERIAL TO BE ALUMINIUM
- * ALL ALUMINIUM WELDING IN ACCORDANCE WITH A.S. 1665
- * ALL S.S STEEL WELDING IN ACCORDANCE WITH A.S. 1554
- * ALL WELDS SHALL BE 4mm C.F.W. U.N.O.
- * ALL ALUMINIUM SECTIONS TO BE GRADE 6351-T5.
- * DIMENSION TOLERANCES U.N.O. SHALL BE:
FABRICATION - ± 2.0 MACHINING - UP TO 10mm ±0.1
> 10 TO 100mm ±0.2
> 100mm ± 0.5
ALL ANGLES ±1°
- * CATWALK TO BE NO LESS THAN 500mm ONTO PONTOON AT MEAN LOW WATER.
- * REMOVE ALL SHARP CORNERS, BURRS & WELD SPATTER.

ROLLER DETAIL

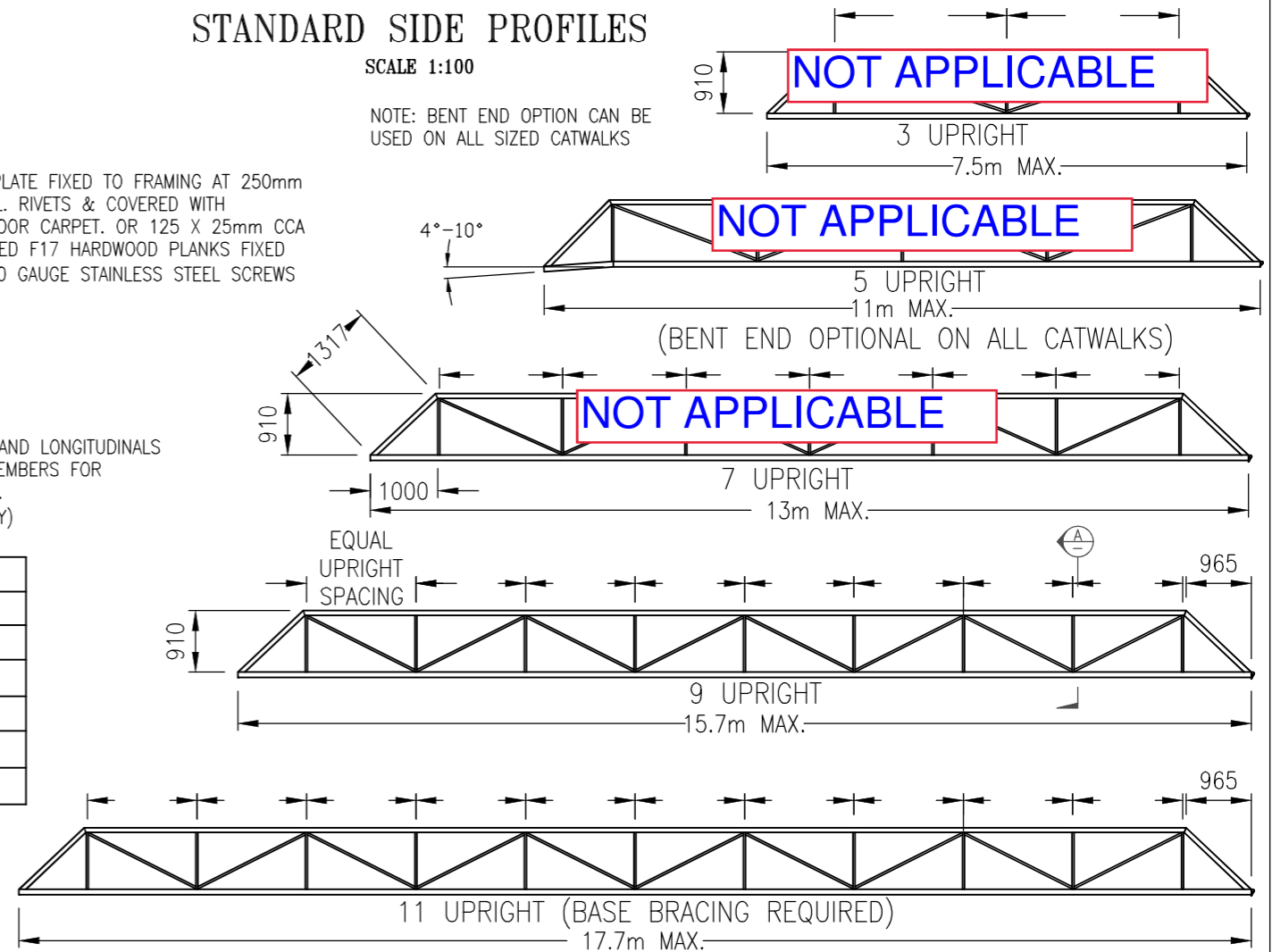
SCALE 1:5



STANDARD SIDE PROFILES

SCALE 1:100

NOTE: BENT END OPTION CAN BE USED ON ALL SIZED CATWALKS

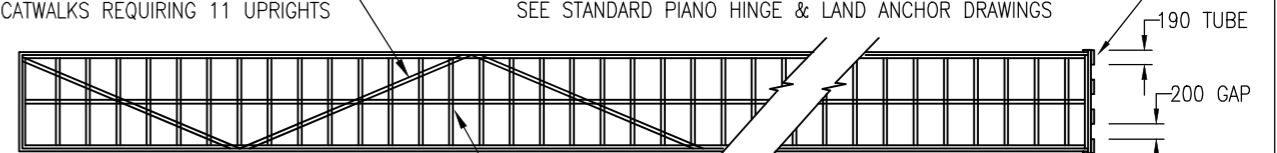


PROVIDE 50 X 6 FB DIAGONAL BRACING UNDER BASE AT 3500 LONG MAX SECTIONS FOR CATWALKS REQUIRING 11 UPRIGHTS

JSP-206 PIANO HINGE TUBES WELDED TO CATWALK END LENGTH AND SPACING TO SUIT STANDARD PIANO HINGE & LAND ANCHOR DRAWINGS

TYPICAL BASE DETAIL

SCALE 1:100



TIMBER DECK

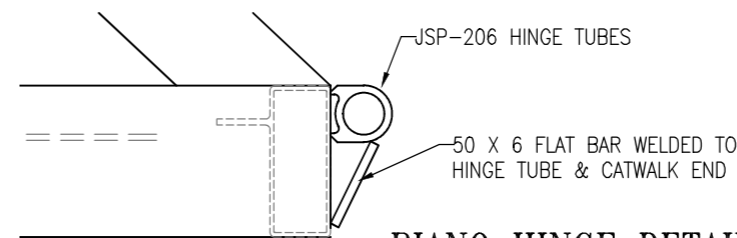
JSP-002 ANGLE CROSS BEAMS @ 600 CRS WITH CENTRAL LONGITUDINAL (1.5kPa & 2kPa LIVE LOAD ONLY)

ALUMINIUM DECK

50 X 2 SHS CROSS BEAMS @ 400 CRS WITH 3mm AL. PLATE DECK (NO LONGITUDINAL REQUIRED)

PIANO HINGE DETAIL

SCALE 1:5



REV	DESCRIPTION	BY	DATE	APPD
M	MAX LENGTHS AMENDED	MA	14/1/21	TC
L	ISSUED FOR EDGE ENGINEERS	MA	9/9/20	TC

EDGE CONSULTING ENGINEERS
Crichton EDGE Consulting Engineers
1st Floor, 28 Balaclava St
Woollongabba, QLD 4102
Mob +61 447 950 427
engineering@crichtonedge.com

CHECKED: *[Signature]* RPEQ: 5496 DATE: 14/01/2021

THE MARINA SPECIALIST
TRADING AS ACN 010633119
18 RON PARKINSON CRES
CORBOUND PARK
QLD 4551 AUSTRALIA
PHONE(07) 5492 5925

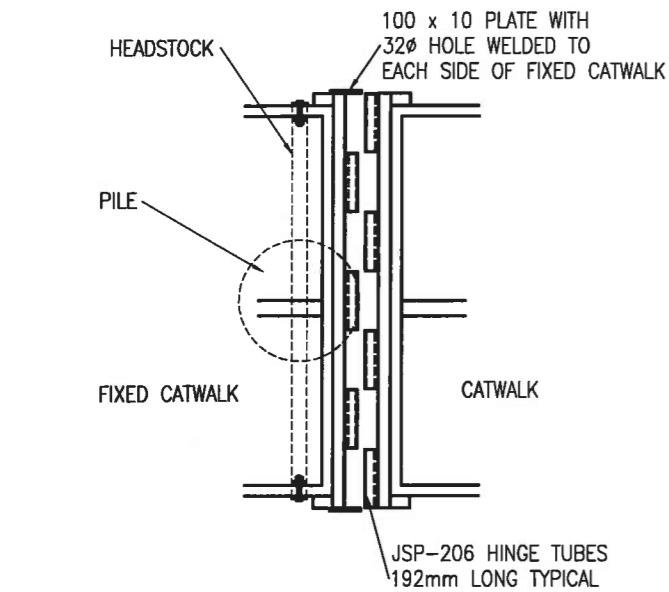
THE JETTY SPECIALIST

CLIENT: M BEARE
LOT 21 (24) O'BRIEN ST
GRANVILLE

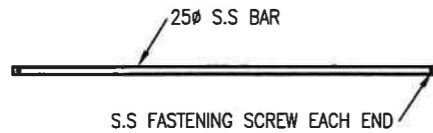
PROJECT: STANDARD DRAWING

TITLE: STANDARD CATWALK CONSTRUCTION

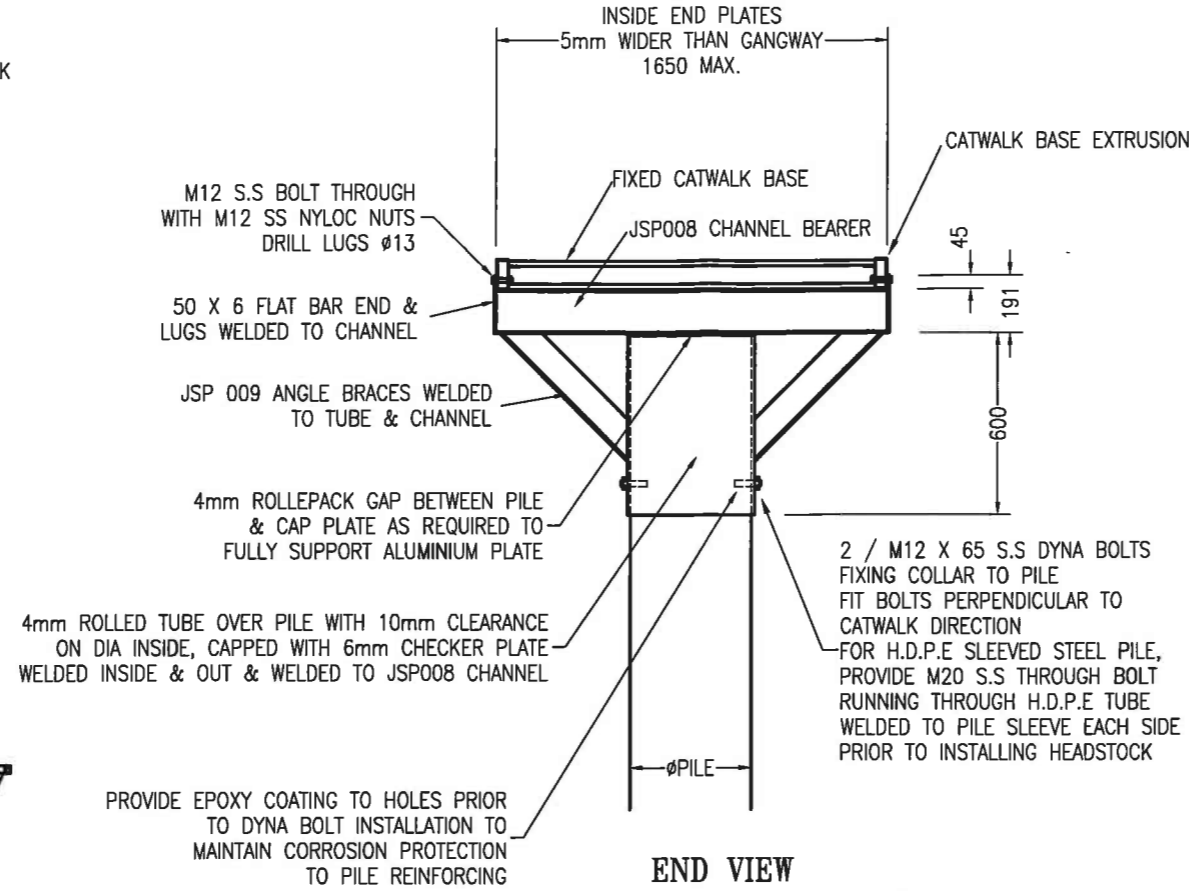
DATE: 12/3/03	UNITS: mm	SCALE: AS SHOWN	SHEET: 1	A3
DRAWN: M.A	CHECKED: M.A	APPRD: JSP-GW-006	DRG No: JSP-GW-006	REV: M



PIANO HINGE PLAN VIEW
SCALE 1:25

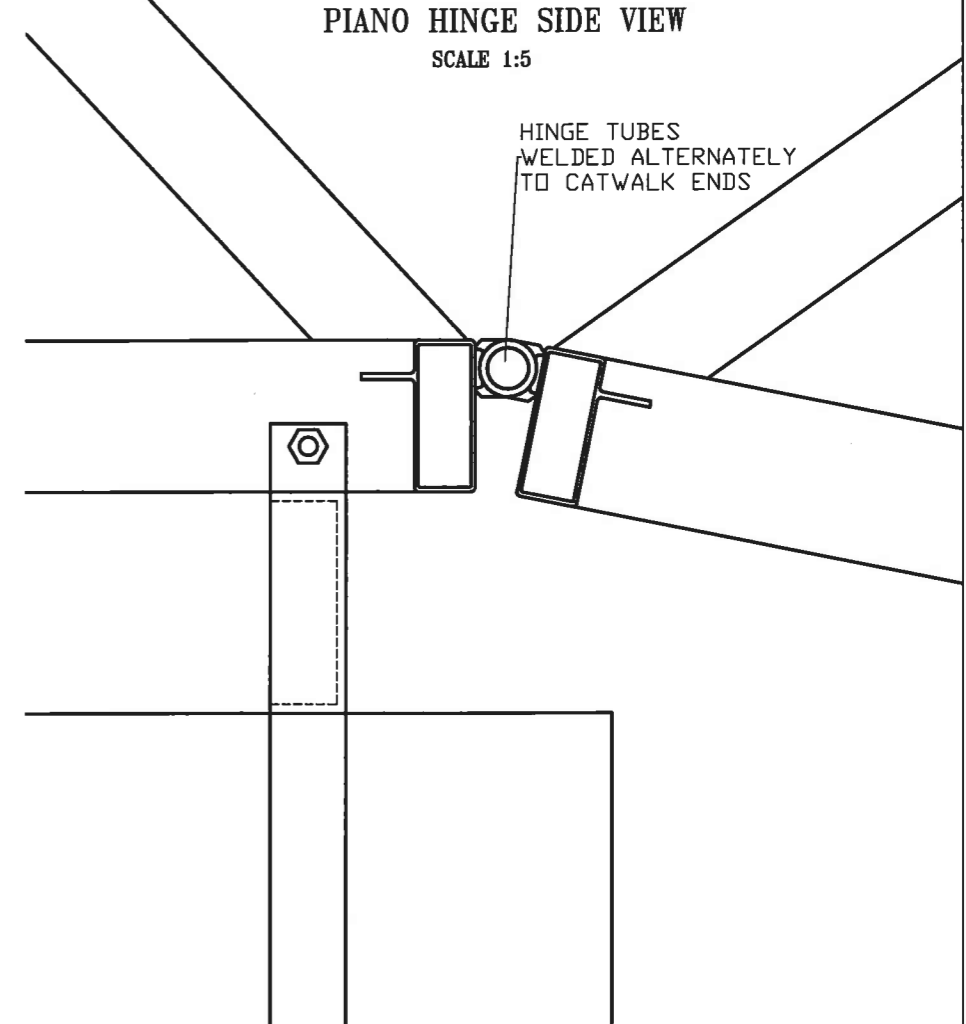


PIVOT PIN
SCALE 1:25



END VIEW HEADSTOCK DETAIL
SCALE 1:25

PROVIDE EPOXY COATING TO HOLES PRIOR TO DYNA BOLT INSTALLATION TO MAINTAIN CORROSION PROTECTION TO PILE REINFORCING



PIANO HINGE SIDE VIEW
SCALE 1:5

PIANO HINGE CONNECTION SEE DETAIL

ELEVATION
SCALE 1:25

PILE

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NOTES:
 ALL ALUMINIUM WORK TO COMPLY WITH AS1664.
 ALL BUTT WELDS TO BE FULL PENETRATION.
 ALUMINIUM TO BE GRADE 6351-T5.
 ALL BOLTS & FITTINGS TO BE 304 OR 316 STAINLESS STEEL.

REV	DATE	AMENDMENT	REQD
E	6/10/10	DYNA BOLTS REPLACE THROUGH BOLT	JSP
D	20/2/07	CHANGE CATWALK EXTRUSIONS	JSP
C	11/3/03	AMEND TO NEW CATWALK EXTRUSION	W/SHOP
B	16/9/02	AMEND HEADSTOCK DETAILS	W/SHOP

THE MARINA SPECIALIST
 TRADING AS ACN 010633119
 2 INDUSTRIAL AVE
 CALOUNDRA
 QLD. AUSTRALIA 4551
 PHONE (07)5492 5925
 FAX (07) 5492 6699

THE JETTY SPECIALIST

Cardno ACN: 051 074 992
 Cardno (Qld) Pty Ltd
 Level 1, 5 Gardner Close, Milton 4064
 P.O. Box 388, Toowong 4066.
 Ph (07) 3369 9822
 Fax (07) 3369 9722
 Email: cardno@cardno.com.au

CHECKED: *[Signature]* R.P.E.Q. DATE: 19.11.10

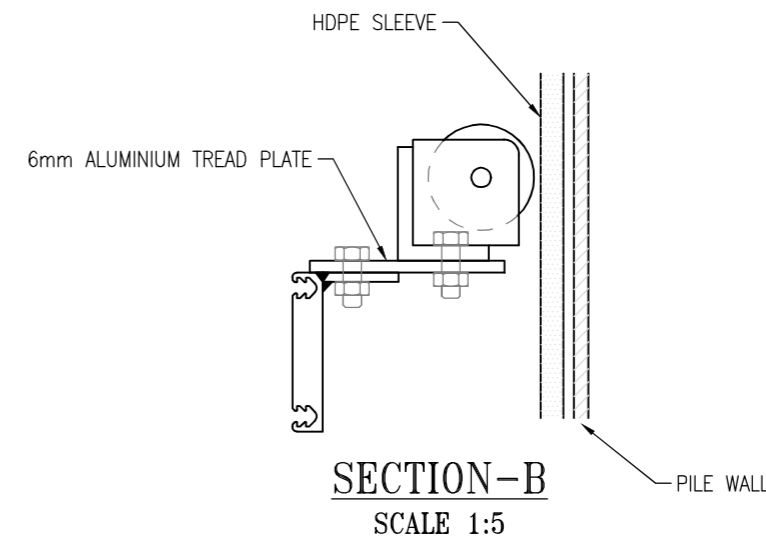
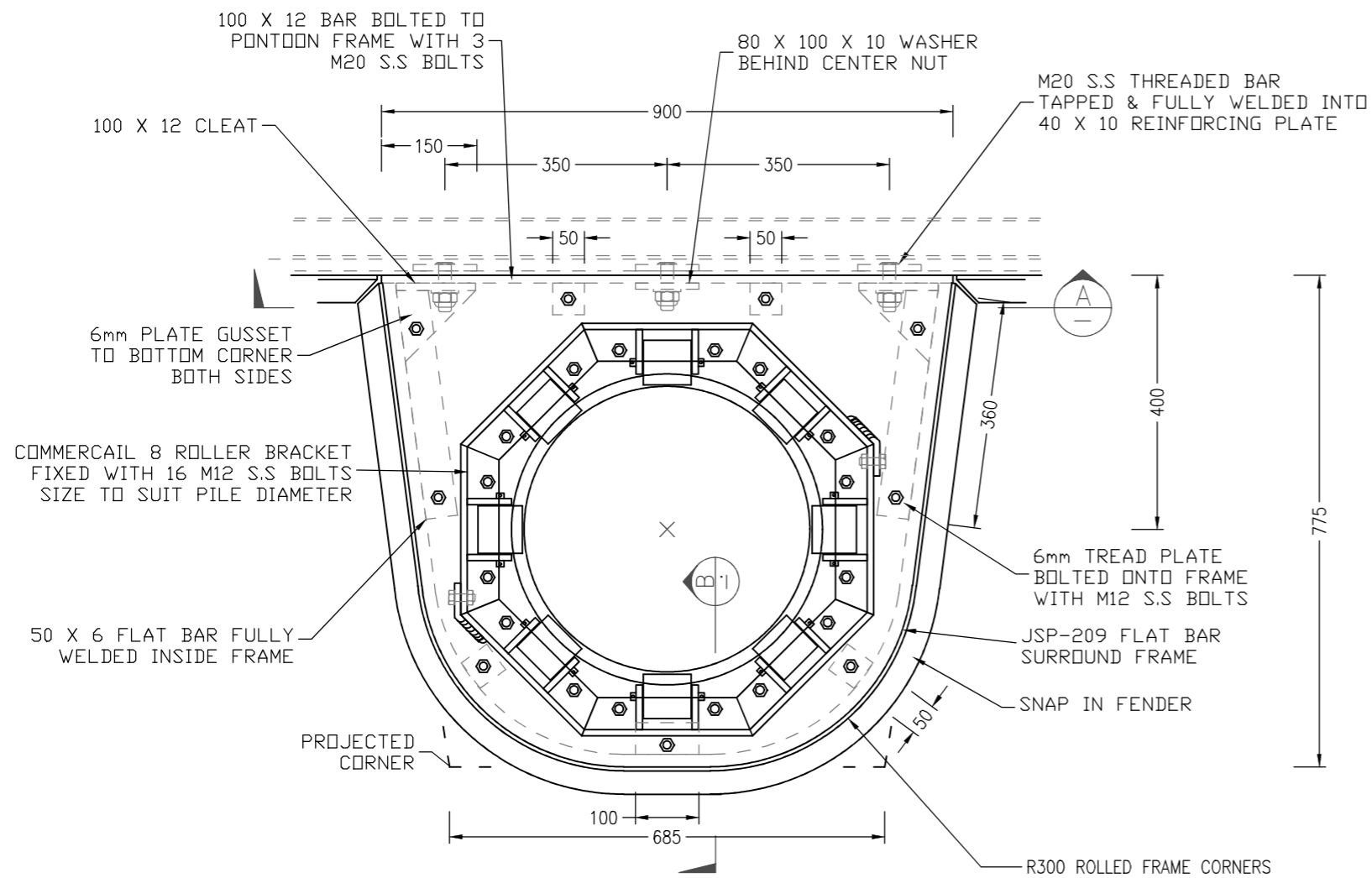
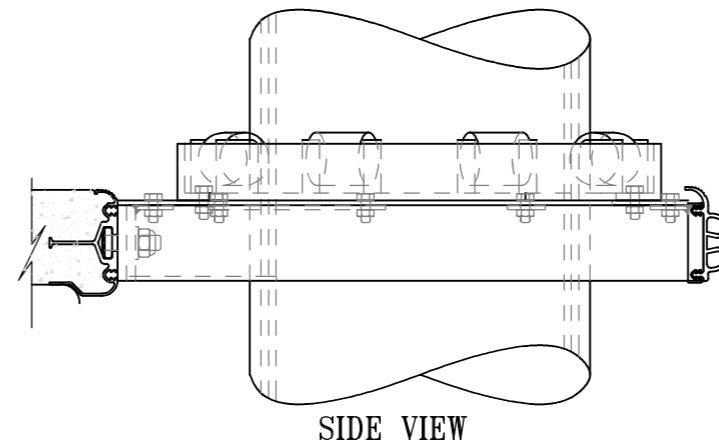
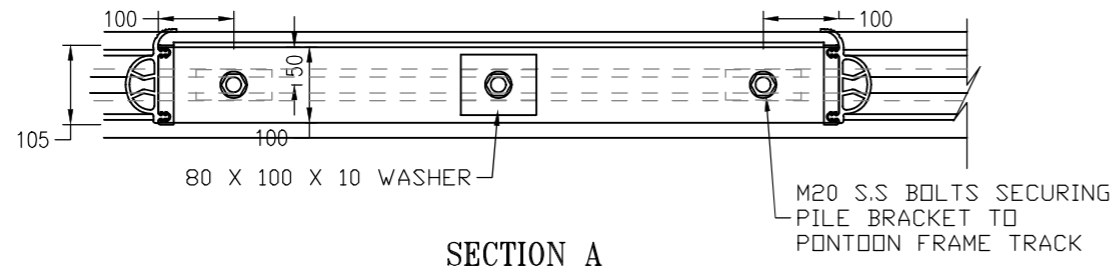
CLIENT: M BEARE
 LOT 21 (24) O'BRIEN ST
 GRANVILLE

PROJECT: STANDARD DRAWING

TITLE: HEADSTOCK & CATWALK CONNECTION

SCALE: AS SHOWN	DATE: 25/7/01	DRAWING NO: JSP-SD-040
DRAWN: MA	CHECKED:	DIMENSIONS: MILLIMETERS
		ISSUE: E

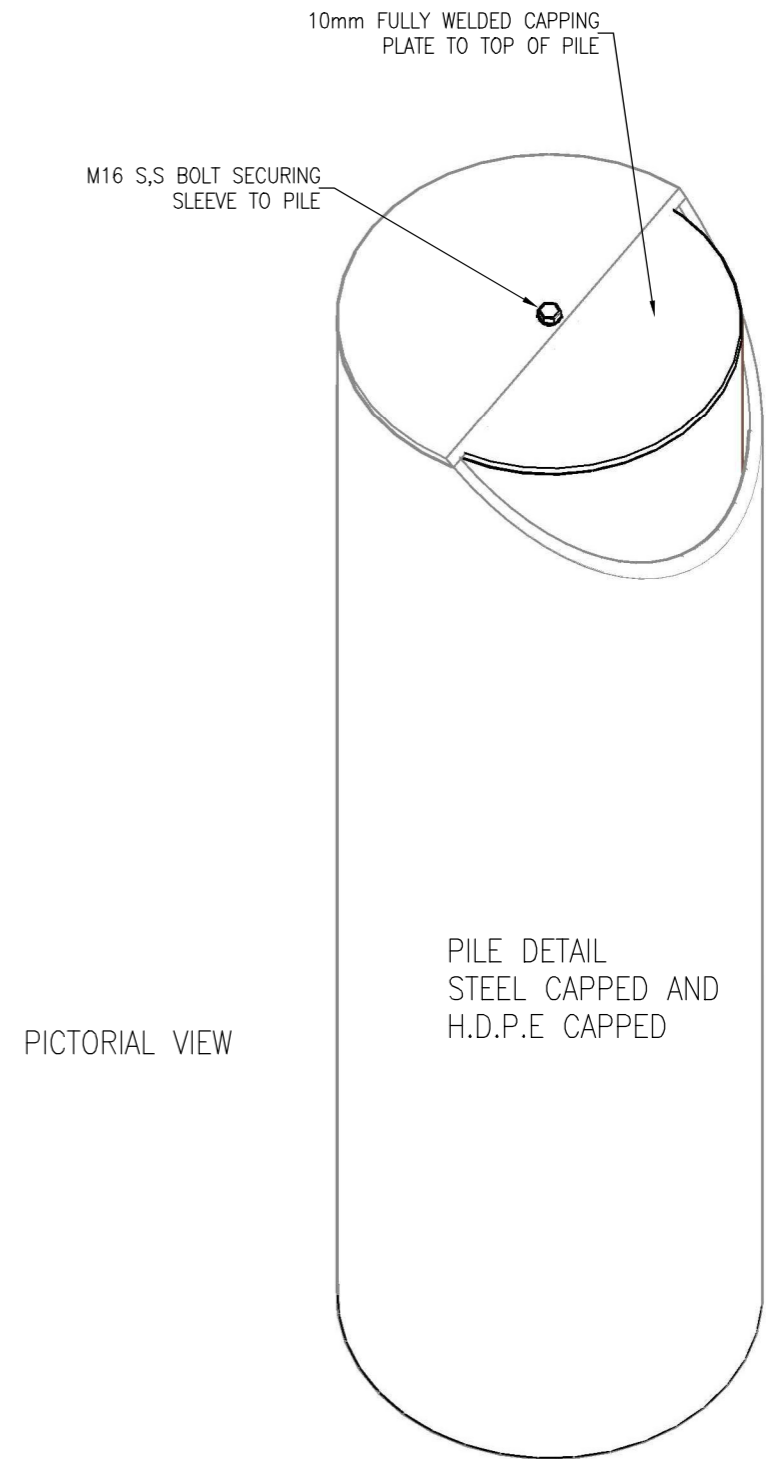
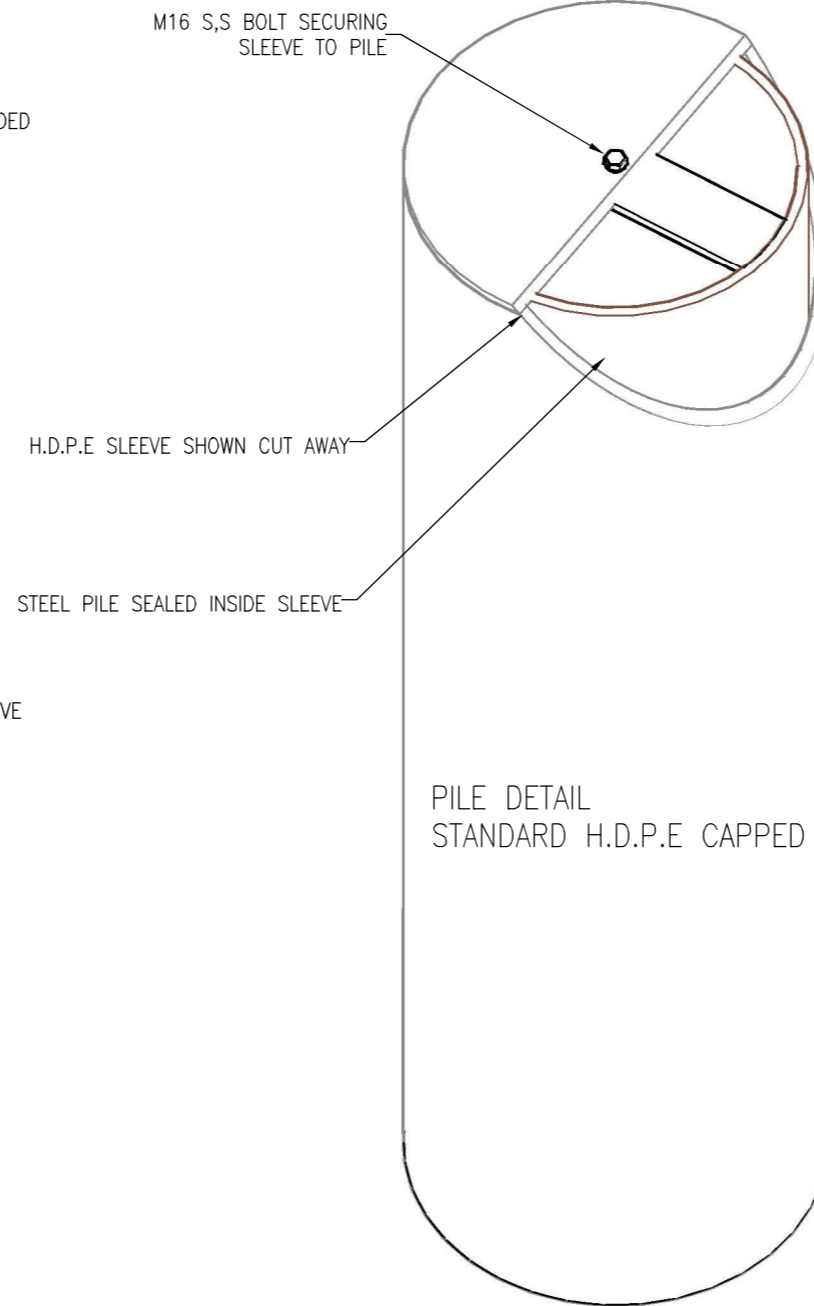
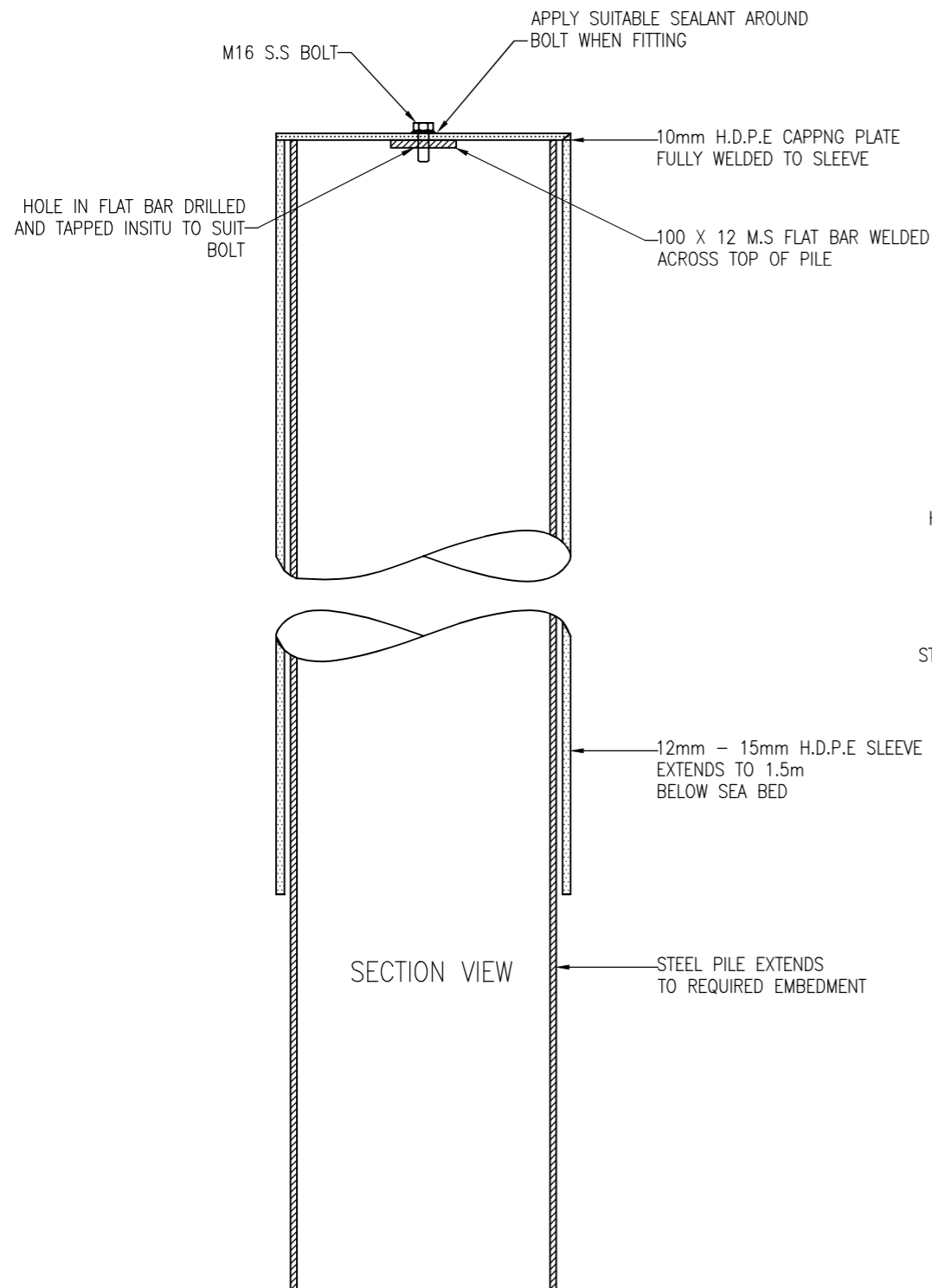
A3



- NOTES:**
- * ALL ALUMINIUM WORK TO COMPLY WITH AS1664.
 - * EXTRUDED ALUMINIUM TO BE GRADE 6351-T5 OR 6063.
 - * PLATE ALUMINIUM TO BE GRADE 5083.
 - * ALL ALUMINIUM WELDING IN ACCORDANCE WITH A.S. 1665
 - * ALL WELDS SHALL BE 4 C.F.W. OR THE THICKNESS OF THE THINNER MATERIAL.
 - * ALL BUTT WELDS TO BE FULL PENETRATION.
 - * ALL BOLTS & FITTINGS TO BE 304 OR 316 STAINLESS STEEL.
 - * ALL STAINLESS STEEL INCLUDING BOLTS, NUTS WASHERS SHALL BE GRADE 316.
 - * ALL WELDING SHALL BE IN ACCORDANCE WITH 1554.
 - * BOLT INSULATION SHALL BE ACHIEVED WITH A LIBERAL COATING OF DURALAC OR LANOCOTE APPLIED TO ALL CONTACTING SURFACES.
 - * DIMENSION TOLERANCES U.N.O. SHALL BE:
 - FABRICATION - ± 2.0 MACHINING - UP TO 10mm ±0.1
 - > 10 TO 100mm ±0.2
 - > 100mm ± 0.5
 - ALL ANGLES ±1°
 - * REMOVE ALL SHARP CORNERS, BURRS & WELD SPATTER.

ULTIMATE LOAD CAPACITY = 65kN

				 EDGE Consulting Engineers 1st Floor, 28 Balaclava St Woollongabba, QLD 4102 Mob +61 447 950 427 engineering@crichtonedge.com		THE MARINA SPECIALIST TRADING AS ACN 010633119  18 RON PARKINSON CRES CORBOUND PARK QLD 4551 AUSTRALIA PHONE(07) 5492 5925 FAX (07) 5492 6699		CLIENT: M BEARE LOT 21 (24) O'BRIEN ST GRANVILLE		TITLE: PILE BRACKET CONSTRUCTION TO SUIT 400φ - 450φ PILES & 8 ROLLER BRACKET			
				CHECKED:  RPEQ: 5496 DATE: 17/09/2020		PROJECT: STANDARD DRAWING		DATE: 26/6/07 UNITS: MM SCALE: 1:10 1:5 SHEET: 1 OF 1 A3					
F ISSUED FOR EDGE ENGINEERS MA 9/9/20 TC REV DESCRIPTION BY DATE APPD				DRAWN: MA CHECKED: PC APPRD: PC DRG No: JSP-SD-142 REV: F									



REV	DESCRIPTION	BY	DATE	APPD
B	SECURING BOLT & CAPPING UPDATED	MA	14/1/19	

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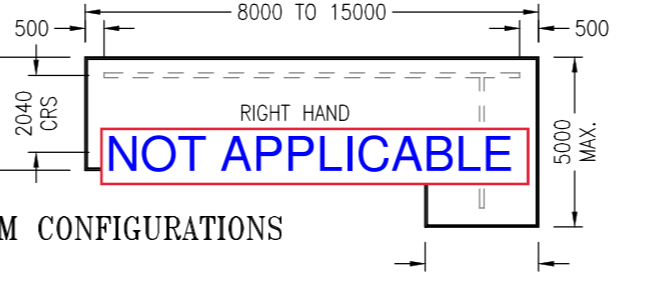
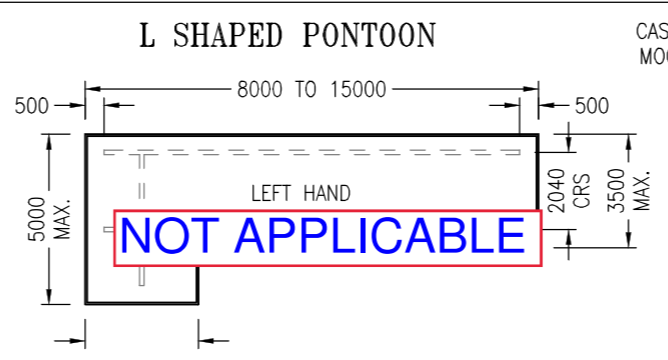
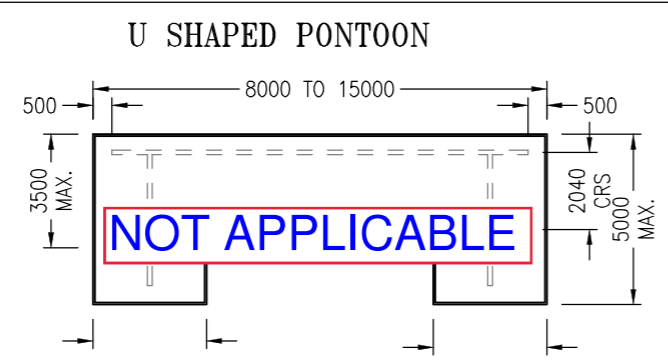
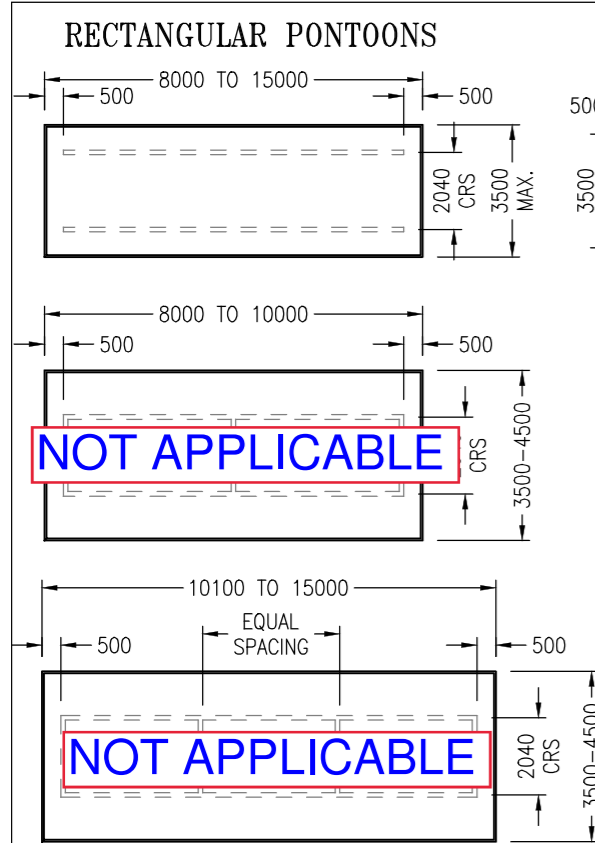
CHECKED: *[Signature]* RPEQ: 5496 DATE: 17/09/2020

THE MARINA SPECIALIST
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 PHONE(07) 5492 5925

CLIENT: M BEARE
 LOT 21 (24) O'BRIEN ST
 GRANVILLE
 PROJECT: STANDARD DRAWING

TITLE: STEEL PILE & H.D.P.E SLEEVE DETAIL

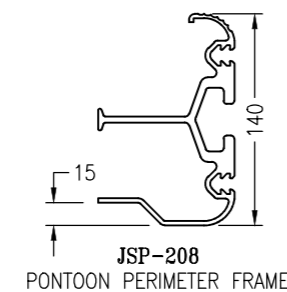
DATE: 6/11/06	UNITS: MM	SCALE: 1:10	SHEET: 1	A3
DRAWN: MA	CHECKED:	APPRD:	DRG No: JSP-SC-045	REV: B



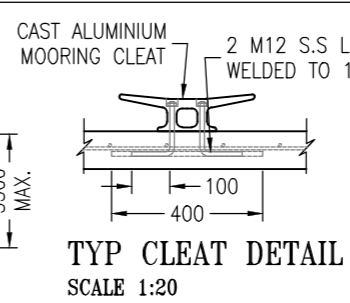
NOTE:
BEAMS NOT REQUIRED FOR PONTOONS
LESS THAN 8000 IN LENGTH

**STANDARD PONTOON SHAPES & BEAM CONFIGURATIONS
NOT TO SCALE**

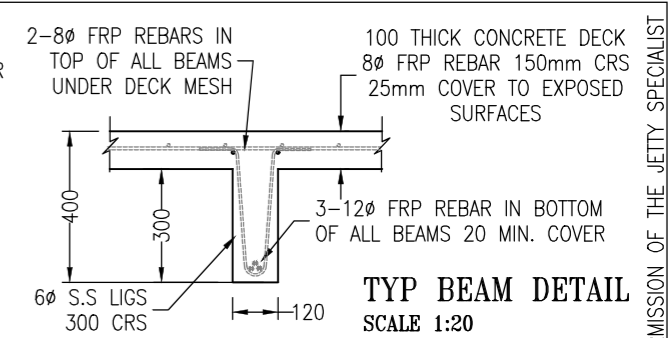
SEE SITE & LAYOUT PLAN FOR RELEVANT PILING POSITIONS, PONTOON DESIGN & ORIENTATION
SEE PILE BRACKET DRAWING FOR PILE BRACKET TO PONTOON CONNECTION DETAILS



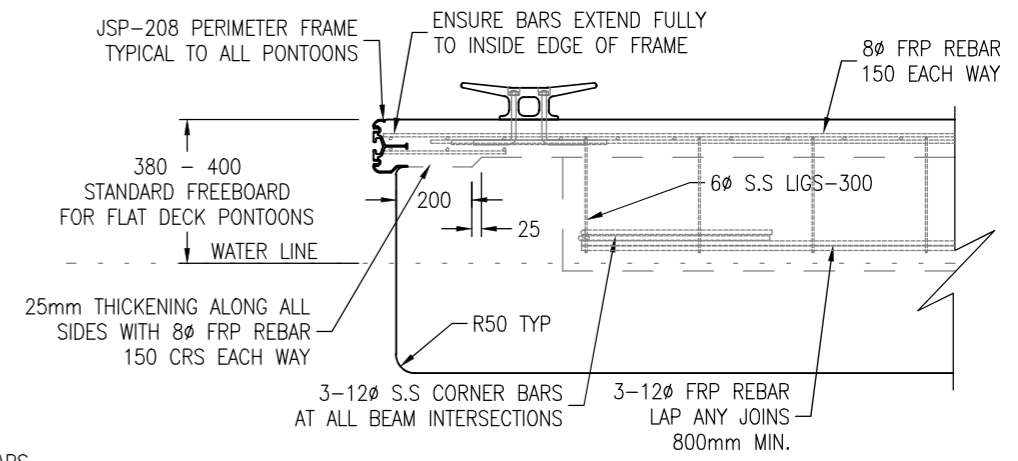
MAX DRY STORED BOAT DISPLACEMENTS		
PONTOON LENGTH	PONTOON WIDTH 3.5m - 4.5m	PONTOON WIDTH 3m MINIMUM
15m	3.5t	2.9t
14m	3.25t	2.75t
12m	3.0t	2.5t
10m	2.75t	2.3t
9m	2.4t	2.1t
8m	2.0t	1.8t
7m	1.8t	1.5t
6m	1.5t	1.3t
5m	1.0t	0.9t



TYP CLEAT DETAIL
SCALE 1:20



TYP BEAM DETAIL
SCALE 1:20



NOTES:

All concrete work to comply with AS3600. All concrete to be grade N50 (50MPa). Cover to reinforcement to exposed surfaces to be 25mm minimum. Reinforcing to be minimum of 8mm FRP bars at 150mm centres in each direction U.N.O. All 8φ bar laps to be 320mm. All 12φ bar laps to be 480mm.

All aluminium work to comply with AS1664. All welds to be 5mm CFW. All butt welds to be full penetration. Aluminium to be grade 6351-T5. Surface of aluminium in contact with concrete to be coated with zinc chromate primer or equivalent. Fabrication tolerance ± 5mm. All bolts and fittings to be 316 stainless steel.

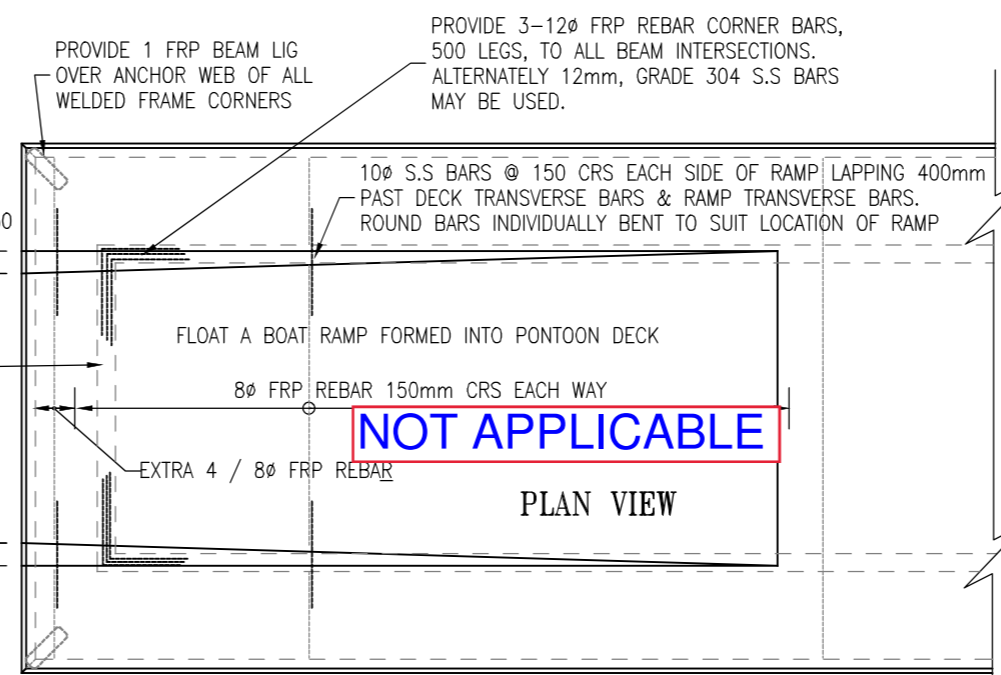
Flotation to comprise of grade SL expanded polystyrene foam with approved protective coating. The approved protective coating for the pontoon will form an impervious barrier to water & marine organisms; and is suitable for the marine environment.

Pontoons with Float-A-Boat ramps to have dry stored boat fully winched onto pontoon with 1m clear at rear.

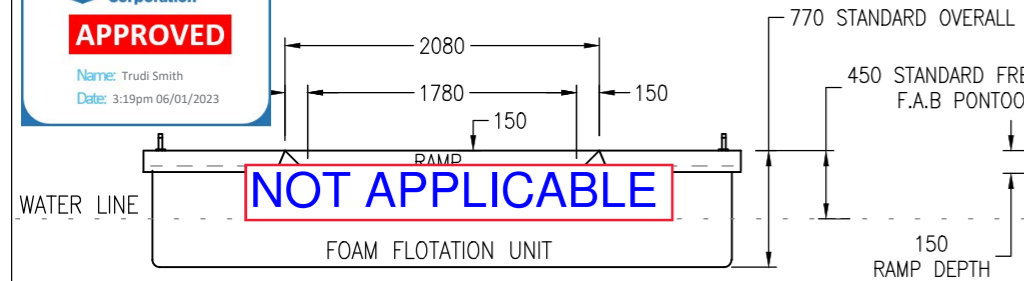
This pontoon facility has been designed to comply with all relevant Australian Standards. The pontoon will be stable at all times. The pontoon has been designed so that when the specified stability live load is distributed over half the width of the pontoon and over the walkway; there is not less than 75mm of reserve freeboard; the bottom corner of the pontoon does not emerge from the water, and the angle of tilt will not exceed 15°.

MAXIMUM DESIGN LIVE DECK LOADING: 3.0 kPa. (Structural & flotation)
1.5 kPa (Stability unrestricted access)
2.0 kPa (Stability restricted access)

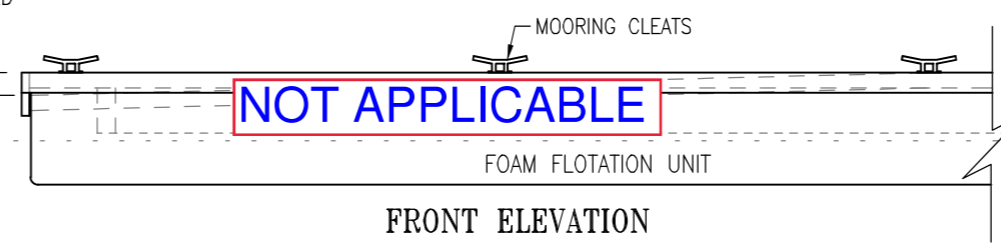
PONTOONS SUITABLE FOR PROTECTED SITES ONLY.
MAXIMUM WAVE HEIGHT: 300mm.
BOAT WAKE: 500mm.
MAXIMUM WIND VELOCITY: 41 m/s.



FLOAT A BOAT RAMP OPTION
SCALE 1:50



RAMP END VIEW



FRONT ELEVATION

REV	DESCRIPTION	BY	DATE	APPD
D	ISSUED FOR EDGE ENGINEERS	MA	9/9/20	TC
C	BAR SPACING REDUCED TO 150 CRS		17/11/17	
B	BAR DETAILS ALTERED IN RAMP DETAIL		21/11/16	

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CHECKED: [Signature] RPEQ: 5496 DATE: 17/09/2020

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QLD 4551 AUSTRALIA
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CLIENT: M BEARE
LOT 21 (24) O'BRIEN ST
GRANVILLE
PROJECT: STANDARD DRAWING

TITLE: FRP REINFORCED PONTOON CONSTRUCTION
STANDARD FLAT DECK AND FLOAT A BOAT PONTOONS
DATE: 28/7/16 UNITS: mm SCALE: AS SHOWN SHEET: 1 A3
DRAWN: M.A CHECKED: APPRD: DRG No: JSP-SD-212 REV: D

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