Queensland Government

22 April 2021

[redacted]
Sales Manager
The Marina Specialist Pty Ltd trading as The Jetty Specialist
18 Ron Parkinson Crescent
Bells Creek Qld 4551

Dear [redacted]

Contract Number: CN-14617
Southern Moreton Bay Islands (SMBI) - Ferry Terminals Upgrade - Construction
Project No. 1253968, 1671147 and 1836970
Marine Engineering Project No. TMR29-130

LETTER OF ACCEPTANCE

I am pleased to advise that the State of Queensland acting through the Department of Transport and Main Roads hereby accepts your tender submission dated 10 November 2020 for the above works for the contract sum of $21,962,001.16 (GST inclusive).

In accordance with the Conditions of Tendering, you are now bound by the Conditions of Contract. Your attention is drawn to Form C7872 - Requirements to be Executed by the Contractor, which is enclosed under a separate letter. Would you please satisfy these requirements within the time limits specified.

The Principal will be represented by the nominated delegates, as outlined in the General Conditions of Contract Annexure under Item 4 of the Contract. All correspondence to the Principal should be addressed accordingly.

Yours sincerely

[redacted]

Delegate of the Principal

Department of Transport and Main Roads
Program Management & Delivery
Floor 18 | 313 Adelaide Street | Brisbane | Qld | 4000
GPO Box 1549 | Brisbane | Qld | 4001

ABN 39 407 690 291

Our Ref: CN-14617
Enquiries: [redacted]
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Marine Execution Plan

Client: Department of Transport and Main Roads
Project: SMBI – Ferry Terminal Upgrade Project

Document Status - Updates				
Rev No.	Author	Reviewer	Approved for Issue	
			Signature	Date
0	JB	ML		12/08/2021

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Marine Execution Plan

Primary Vessel Name:	Cobia
Vessel Owner:	Morris Equipment Hire
Skipper:	TBA
Mooring Type:	Spud Bars
Number of operators:	2
Personnel on Barge:	TBC
Duration of project:	18 Months
Standards to comply:	National Law Act 2012 Transport Operation (Marine Safety) Act 1994 Maritime Safety (Domestic Commercial Vessel)

1. Introduction

The Jetty Specialist have been contracted by TMR to supply and install the new Ferry Terminals and all associated Landside works at Russell, Macleay, Lamb and Karragarra Islands in the Southern Moreton Bay region. These include the installation of single and double berth Ferry Pontoons, access Gangways, and concrete jetties as well as upgrades to the landside access to the new facilities. Also included are upgrades to the recreation pontoons at all Islands and a new floating walkway at Macleay Island.

The works involved within this plan include the utilization of a piling barge, dumb barges for material supply and at act as working platforms, smaller support work vessels and pusher boats. TJS will supply and install a series of 450mm diameter Piles with precast headstocks and precast deck planks as well as cast-in-situ concrete topping slabs for the concrete jetties. Either single or double berth aluminum pontoons will be installed with 4 x 900mm diameter Piles and 27m long Gangways to access the Pontoons from the concrete jetties. Russell Island also includes the installation of a new Gangway to access the Recreation Pontoons and Macleay Island includes for the installation of a new Floating Walkway running parallel to the existing boating ramp. All Islands include the upgrading of the existing Recreation Pontoons.

TJS's main working platform will be our Cobia Barge, this is a fully spudded barge and does not require mooring chains external of the barge's footprint, ensuring a minimal impact on surrounding traffic and allows safe passage for other vessels. The Cobia is approximately 22mx14.3m Steel barge with an 80T Crawler crane on board.

2. Operational Plan

TJS will establish marine based plant from our base on the Brisbane River in September 2021. Cobia will be pushed to site using TJS pusher barges from its current location on the Brisbane river. Support Barges will be pushed to our Marine Logistics Facility (MLF – 94-96 Beveridge Road, Thornlands) based on Epapah Creek in Thornlands ready to be loaded. Smaller Marine craft will be road transported to the MLF and launched from the existing slip way available at the MLF. All construction material will be road transported to the MLF and off-loaded ready to send to site as required, TJS will operate an 80t Crawler Crane at the MLF which is to be used to unload road transported material and load barges for delivery to site. Material supplied to site will be delivered by barge on an as needed basis to ensure a minimal footprint of plant onsite at any time. Prior to any movement of barges to site all required notifications are to be issued to all relevant governing bodies (MSQ, VTS, AMSA) within time required frames.

Site staff will mobilize to site separately and will be via the commercial Ferry services or in work boats as needs require and will be in place to ensure the safe mooring and securing of all plant and equipment as it arrives on site. Site staff will be in contact with off site management and staff, regarding progress and adherence to all relevant statutory and site requirements.

Cobia and all support vessels will be moored on or adjacent to site (please refer to Appendix B for anticipated staging). It is proposed the Dumb barge will be moored adjacent to Cobia whilst on site and be appropriately lit to allow clear passage for other marine traffic in the area.

Mandatory day shapes, lights and markers will be displayed on all vessels in accordance with the Maritime Safety Queensland requirements. Flags will be displayed on both barges during vessel operation to advise of slow/speed/no wash zones. Flashing Buoys are to be deployed around the Barges to provide additional visual notification during nighttime. Buoy Location will be marked up on plans so they can be established and maintained in position during the works.

Generally, all works are to be carried out in daylight hours only, the Barges are to be secured by spud legs or at site for the duration of the project. When not operational the vessel is spudded, lighting is utilized by the anchor light and a yellow flashing light will be positioned on the outer extremity of vessel.

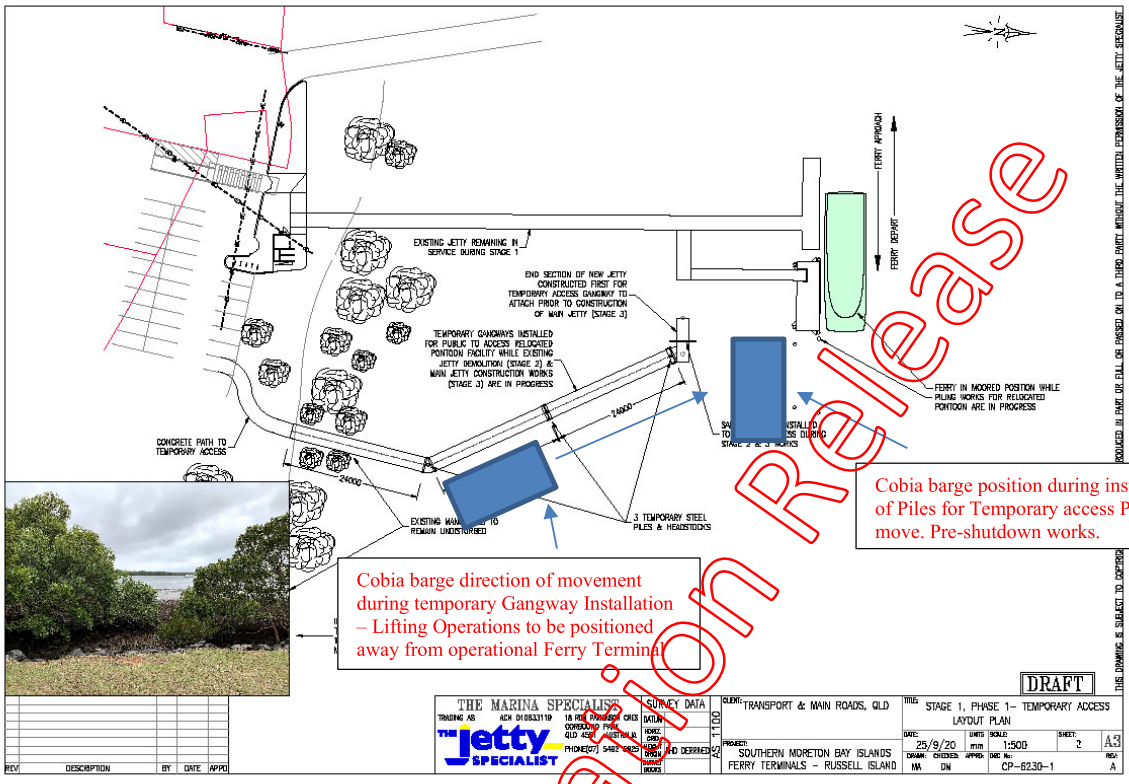
Night works are expected to be required at Russell Island to complete the changeover from existing Ferry access to temporary Ferry access and during the final installation of the Finger Jetty and Recreation Pontoon reconfiguration. During the changeover from existing Ferry access to the Temporary Construction access for the Ferries a period will exist where no access will be available to be Ferry Pontoon. Measures are to be in place to address emergency requirements during this period. A hour by hour program is attached in Appendix C showing the proposed sequence of works to establish the Temporary Gangway Access to the Ferry Pontoon.

Prior to mobilization to individual Islands, signage is to be placed at all boat ramps and Ferry Terminals notifying residents that construction is to commence, and that restrictions and periodic exclusions zones will be required.

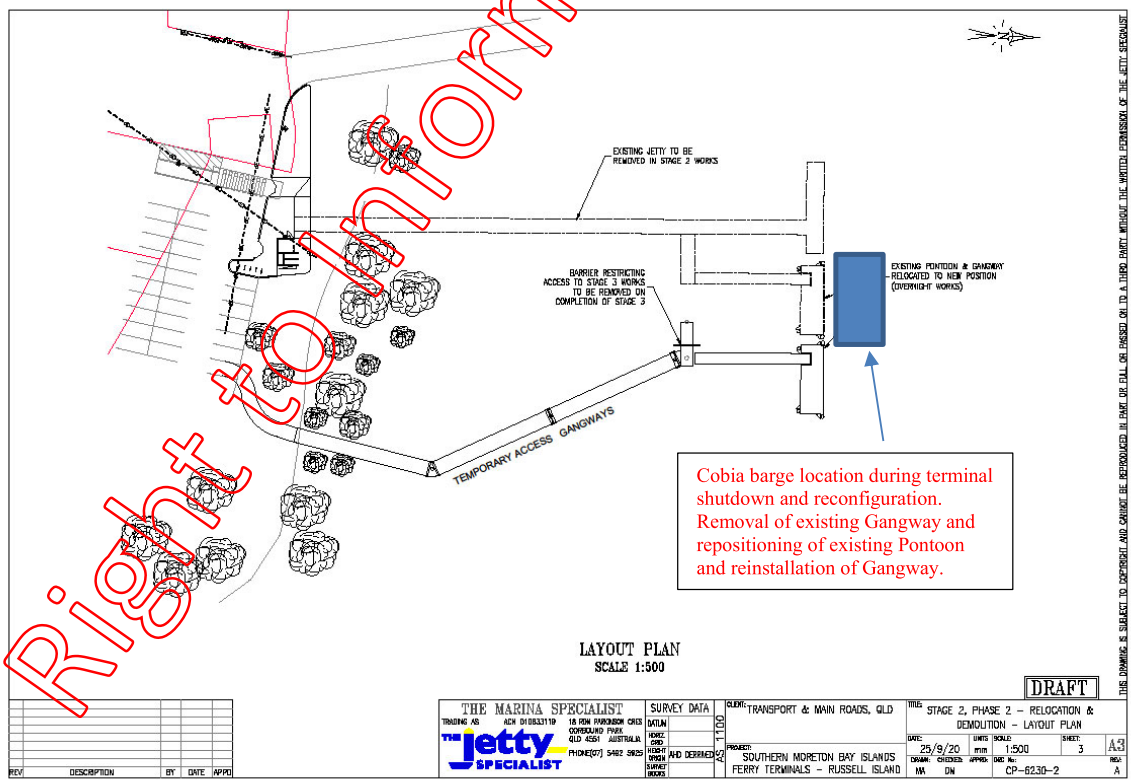
During the works all lifting is to be completed with cranes and supply barges positioned pointing away from the operational ferry terminals when possible. Prior to any lifting / pitching a visual scan is to be conducted by the lift supervisor of the area to ensure no recreational vessels or commercial operators are in the restricted area. Once loads are lifted / pitched the lift supervisor will ensure workers are positioned at the delivery end and only then will the load be slewed and placed into position. During Piling operations, it may be necessary to temporarily halt passengers using the jetties or gangways until the piles are in the gates of the leader rig and secure, this will be done by workers positioned landside and in contact with marine operations by radio/phone. At all times, commercial ferries will have priority, works will stop to allow free movement of commercial vessels to dock and load / unload passengers.

Cobia will be required to be moved on a regular basis during the works, this will be done using TJS pusher boats, only when the pusher boats have control of the barge will the spuds be lifted. The pusher barges will maneuver Cobia and supply barges under the supervision of the site foreman. All communications will be done via radio or hand directions. VTS will be monitored at all times during moves to ensure traffic movements are known. Sealink ferries schedule will be monitored and all moves impacting ferry movements planned to occur during times when they are not visible in the area. Regular communication between barge operations and Ferry operations will be established to ensure minimal interactions occurs.

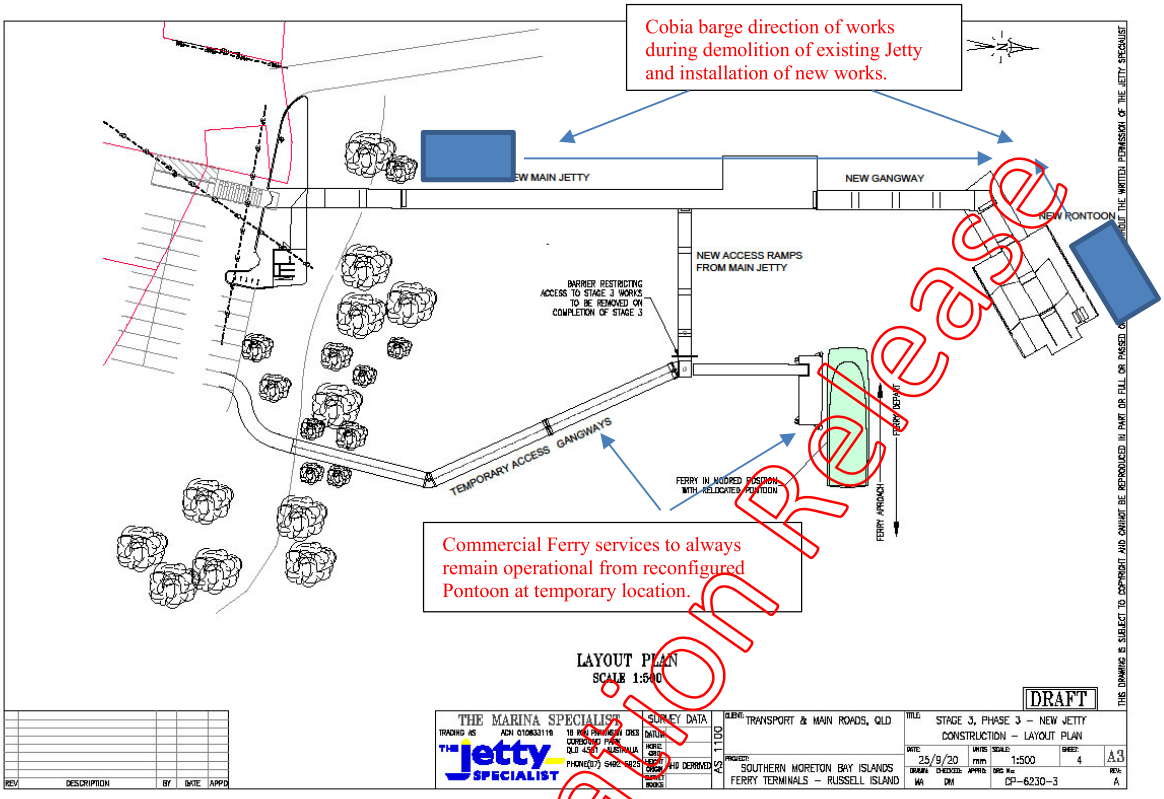
During the initial reconfiguration works at Russell Island to install a new temporary Gangway Access to allow constructions works to be separated from the commercial ferry operations it is required to temporarily remove the existing terminal gangway, relocate the existing Pontoon and reinstall the existing gangway. This is planned to happen during a complete shutdown of the ferry terminal (currently planned for Sunday to Monday night as largest time window). At this time emergency access for ambulance vessels will not be available from the current facilities. TJS propose to liaise with Sealink to temporarily move this facility to the mooring berth pontoons for the ferries.



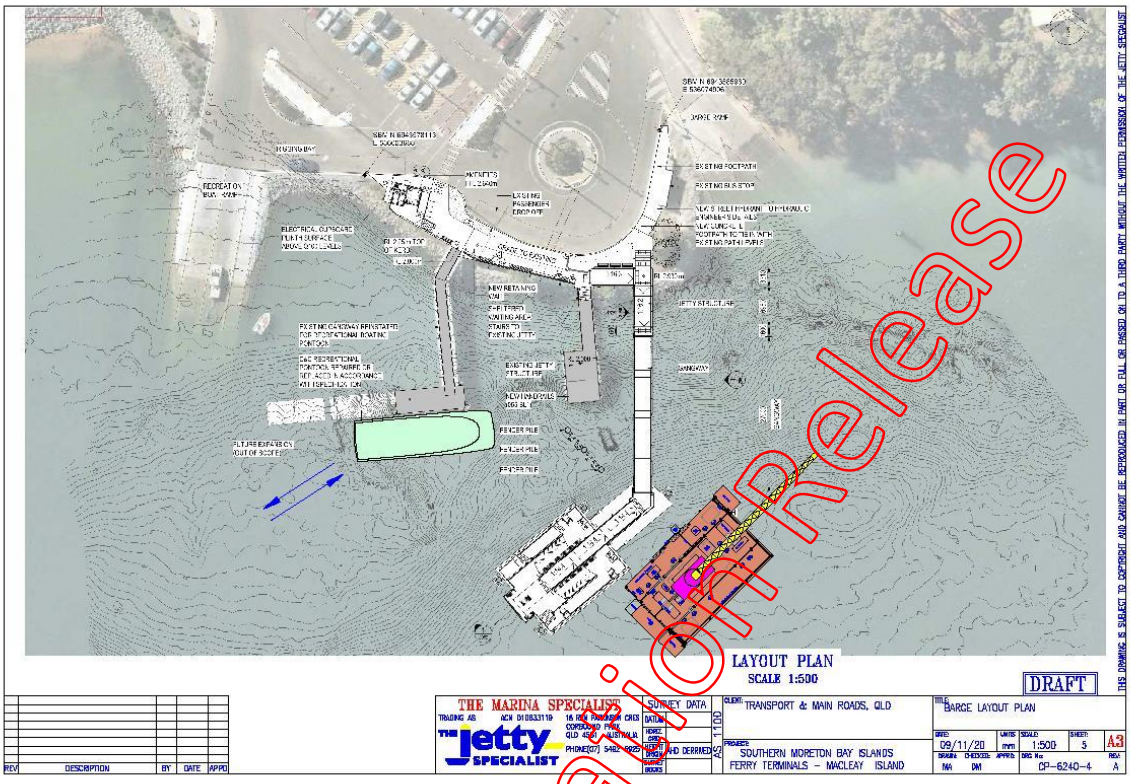
Stage 1 – Pile, Headstock, Landing and Gangway Installation - Proposed Phasing



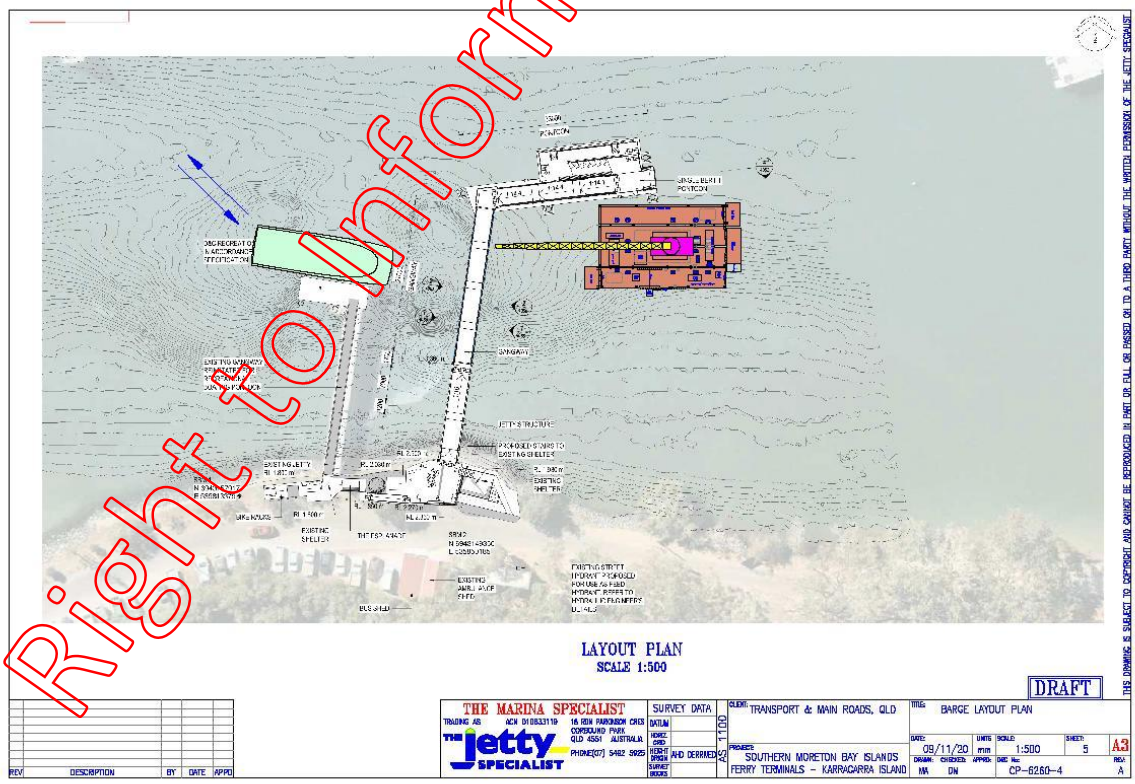
Stage 2 – Shutdown Works – Reposition Exiting Gangway and Access Pontoon



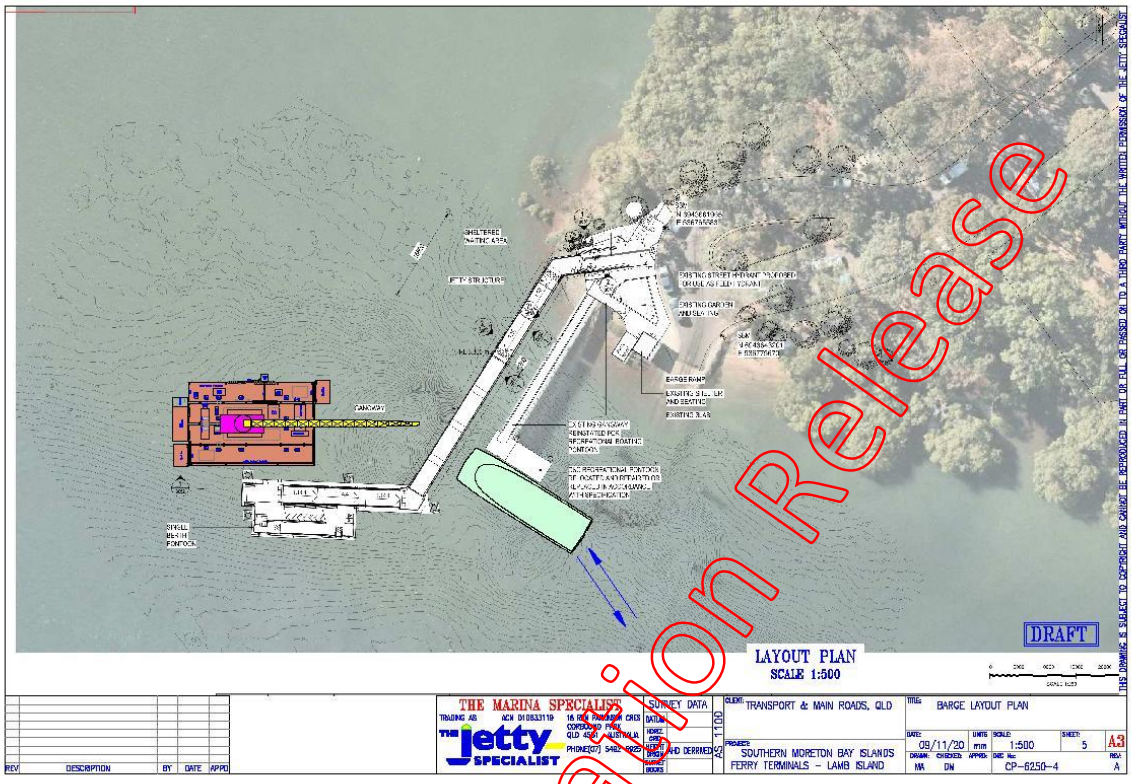
Stage 3 – Main Construction Works – Installation of new Jetty, Gangway and Pontoon



Main Construction Works Macleay Island – Installation of new Jetty, Gangway and Pontoon



Main Construction Works Karragarra Island – Installation of new Jetty, Gangway and Pontoon



Main Construction Works Lamb Island – Installation of new Jetty, Gangway and Pontoon

3. Vessel Specifications

Cobia (Piling Barge) – Certificate of Operation attached as apart of "Appendix A"

Specifications:

Overall length 22mx14.3m Steel barge with 80T Manitowoc on Board
Mooring Equipment: Hydraulic Spud Legs
Vibratory Hammer
Hydraulic adjustable pile frame & drilling equipment

Samson (Pusher Barge) – Certificate of Operation attached as a part of "Appendix A"

Specifications:

Overall length 5.97x3.37m Aluminum pusher barge

Pusher barge – sister ship to Samson

Small Aluminum dumb barge / barges –12-15m to be used as work platforms during jetty construction and movement of precast elements. They will also be used to deliver material from the Marine Logistic Facility to the various Islands.

4. Crew Qualifications

Site staff TBA

5. Maneuvering Plan

Initial mobilisation of Cobia to site and final demobilisation from site will utilise local tug supplier (Pacific Tug or Rising Pheonix Marine Services) both are familiar with the vessel and have towed the vessel within the area on previous occasions.

Movement of smaller supply vessels and dumb barges will utilise TJS specifically designed 6m pusher vessels with dumb barges supplying site from the marine logistics facility at Epapah creek. Due to the tidal access and restrictions in Epapah Creek it is envisaged that regularly during the program dumb barge and pusher will need to be anchored in the vicinity of the creek entrance / Victoria Point outside of all navigational channels to minimise disruptions and maximise movement effectiveness throughout the project. Dumb barges utilised as supply vessels will have a maximum 1m draft. Pusher vessels will have a variable draft up to maximum of 1.3m. This relatively low draft will allow vessels to ensure they can be safely anchored whilst not interfering with other vessels or navigational channels.
Vessels transiting to and from site will utilise marked navigational channels. All vessels to display lights / shapes / flags as required at all times. Pusher vessels will monitor VHF at all times when manned and in operation.

6. Communications

In accordance with section 5.1 of the Standard for Commercial Marine Activities TJS will contact the Brisbane Harbour Master or telephone through Brisbane VTS to advise commencement of works and arrival on site (dependent on weather). TJS's will notify Brisbane VTS via VHF or telephone of location/movements of vessel for the duration of the project. Vessels will monitor VHF channel for any notifications.

7. Incident Report

In accordance with section 5.5 of the Standard for Commercial Marine Activities and Australian Maritime Safety Authority requirements, all marine incidents are to be reported to AMSA with a preliminary report within 4hrs of incident occurring and an additional detailed report with within 72 hours. Brisbane MSQ Office will be notified of marine incidents occurring

Please find attached our internal procedure “Appendix C” for incident reporting and incident reporting form which also covers Marine Pollution Reporting and Environmental Incident Reporting.

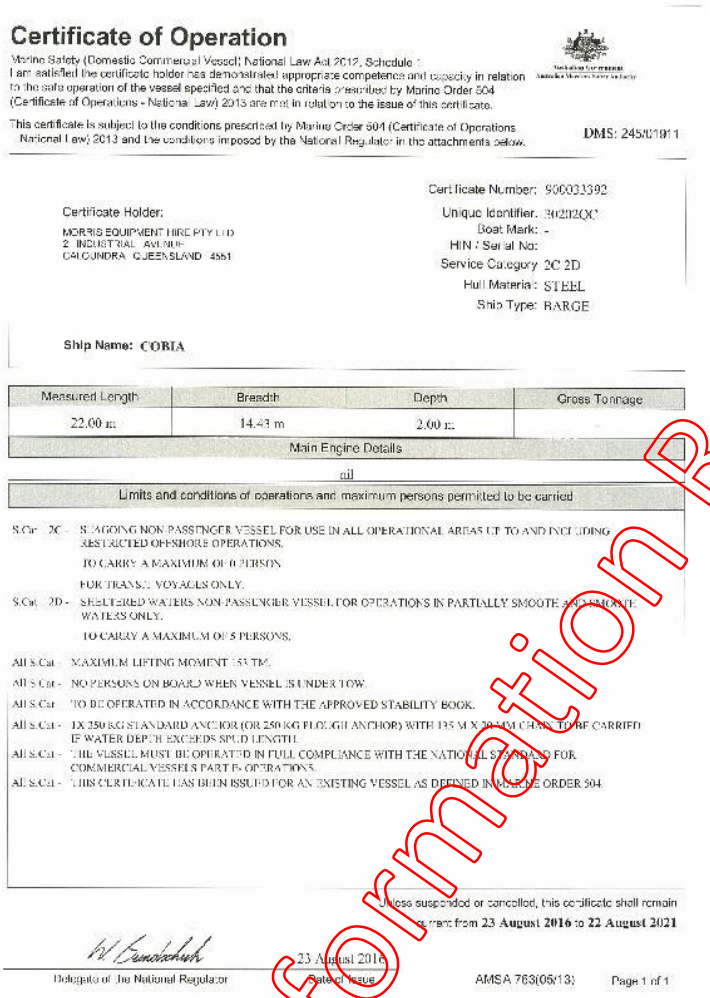
8. Evacuation Procedure

Emergency Procedure for Cobia forms a part of the “SMS”. Depending on the nature of the incident will determine which facilities or emergency services will be used/notified. This Emergency procedure goes further into specific details and procedures. TJS Barge foreman is inducted and trained in this procedure and will act according to the nature of any emergency or evacuation.

9. Cyclone/Extreme Weather Contingency Procedure

Refer to APPENDIX C

APPENDIX A – Vessels - Certificate of Operation



Certificate of Operation

Marine Safety (Domestic Commercial Vessel) National Law Act 2012, Schedule 1
I am satisfied the certificate holder has demonstrated appropriate competence and capacity in relation to the safe operation of the vessel specified and that the criteria prescribed by Marine Order 504 (Certificate of Operations - National Law) 2013 are met in relation to the issue of this certificate.

This certificate is subject to the conditions prescribed by Marine Order 504 (Certificate of Operations - National Law) 2013 and the conditions imposed by the National Regulator in the attachments below.

DMS: 245/01911

Certificate Holder:

MORRIS EQUIPMENT HIRE PTY LTD
2 INDUSTRIAL AVENUE
CALOUNDRA QUEENSLAND 4551

Certificate Number: 900031392
Unique Identifier: 3020200
Boat Mark: -
HIN / Serial No:
Service Category: 2C 2D
Hull Materia: STEEL
Ship Type: BARGE

Ship Name: COBIA

Measured Length	Breadth	Depth	Gross Tonnage
22.00 m	14.43 m	2.00 m	

Main Engine Details

nil

Limits and conditions of operations and maximum persons permitted to be carried

S.Cat - 2C - SEAGOING NON-PASSENGER VESSEL FOR USE IN ALL OPERATIONAL AREAS UP TO AND INCLUDING RESTRICTED OFFSHORE OPERATIONS.
TO CARRY A MAXIMUM OF 0 PERSON.
FOR TRANS-C VOYAGES ONLY.

S.Cat - 2D - SHELTERED WATERS NON-PASSENGER VESSEL FOR OPERATIONS IN PARTIALLY SMOOTH AND SMOOTH WATERS ONLY.
TO CARRY A MAXIMUM OF 5 PERSONS.

All S.Cat - MAXIMUM LIFTING MOMENT 153 TM.

All S.Cat - NO PERSONS ON BOARD WHEN VESSEL IS UNDER TOW.

All S.Cat - TO BE OPERATED IN ACCORDANCE WITH THE APPROVED STABILITY BOOK.

All S.Cat - 1X 250 KG STANDARD ANCHOR (OR 250 KG PLOUGH ANCHOR) WITH 135 M X 20 MM CHAIN TO BE CARRIED IF WATER DEPTH EXCEEDS SPUD LENGTH.

All S.Cat - THE VESSEL MUST BE OPERATED IN FULL COMPLIANCE WITH THE NATIONAL STANDARDS FOR COMMERCIAL VESSELS PART B- OPERATIONS.

All S.Cat - THIS CERTIFICATE HAS BEEN ISSUED FOR AN EXISTING VESSEL AS DEFINED IN MARINE ORDER 504

Unless suspended or cancelled, this certificate shall remain current from **23 August 2016** to **22 August 2021**

Delegate of the National Regulator

23 August 2016
Date of Issue

AMSA 763(05/13) Page 1 of 1

Australian Government
Australian Maritime Safety Authority

CERTIFICATE OF SURVEY

Marine Safety (Domestic Commercial Vessel) National Law Act 2012, Schedule 1
Marine Order 503 (Certificates of survey—national law) 2018

Name of Certificate Holder: MORRIS EQUIPMENT HIRE PTY LTD

Name of vessel SAMSON	**Type of vessel** Monohull	**Unique vessel identifier** 430267	**Certificate number** COS-81875 001
Measured length (m) 5.97	**Measured breadth (m)** 3.37	**Measured depth (m)** 1.000	**Gross tonnage (if applicable)**
Engine make/type	**Engine power (kW)** 197.8	**Hull material** Aluminium	**Survey frequency** LOW

Class(es) and number of persons this vessel is certified to carry

Class	Crew	Unberthed passengers	Berthed passengers	Special personnel
2C				
2E				

Conditions

- FOR 2C - TO CARRY A MAXIMUM OF 2 PERSONS
- MAXIMUM WAVE HEIGHT 1.5 METRE
- MAXIMUM BEAUFORT WIND SCALE 5
- NO PASSENGERS TO BE CARRIED.
- FOR 2E - TO CARRY A MAXIMUM OF 4 PERSONS.
- FOR ALL CLASSES - USL CODE SECTION 5 SUB SECTION 5.10: THE VESSEL IS NOT FITTED WITH HANDRAILS AROUND THE PERIPHERY OF THE MAIN DECK DUE TO INTERFERENCE WITH NORMAL OPERATIONS.
- THE VESSEL HANDRAILS AROUND THE PERIPHERY OF VAIN DECK MUST BE FITTED IN CLASS 2C OPERATIONS.
- PFD'S TO BE WORN AT ALL TIMES.
- THIS CERTIFICATE HAS BEEN ISSUED FOR AN EXISTING VESSEL AS DEFINED IN MARINE ORDER 503.

This certificate is in force until 23 February 2022, unless suspended or revoked.

DELEGATE OF THE NATIONAL REGULATOR
PO Box 2181, Canberra ACT 2601
p 1800 627 484
w www.amsa.gov.au

Certificate Number: COS-81875-001

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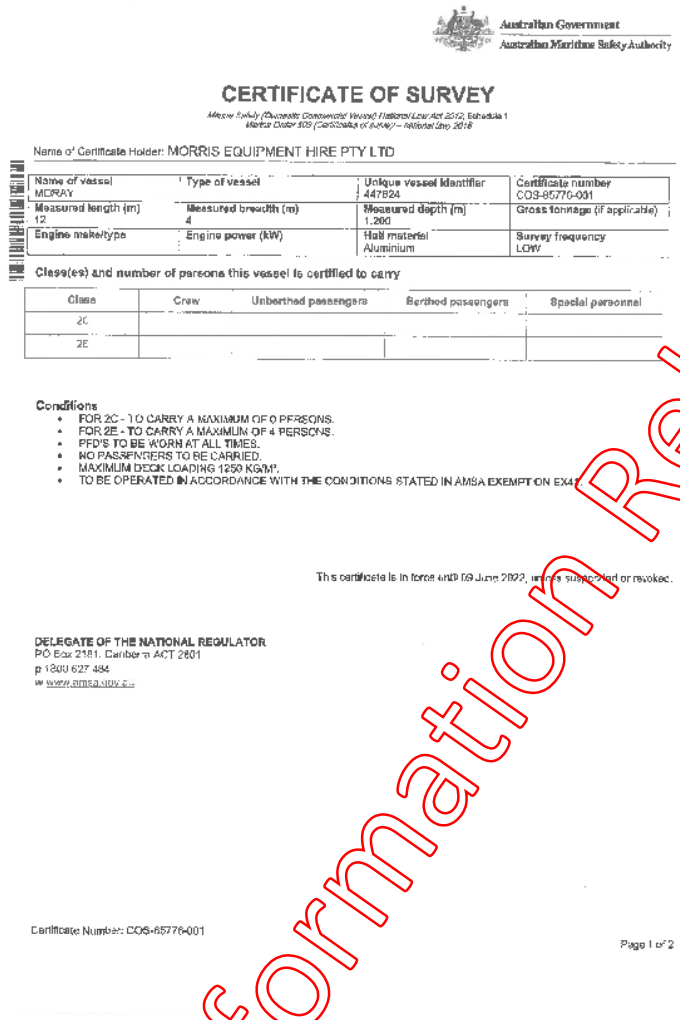

Australian Government
Australian Maritime Safety Authority

CERTIFICATE OF SURVEY

Marine Safety (Domestic Commercial Vessel) National Law Act 2012, Schedule 1
Marine Order 503 (Certificates of survey) – National Law 2018

Name of Certificate Holder: MORRIS EQUIPMENT HIRE PTY LTD

Name of vessel	Type of vessel	Unique vessel identifier	Certificate number
MORAY		447824	COS-85776-001
Measured length (m)	**Measured breadth (m)**	**Measured depth (m)**	**Gross tonnage (if applicable)**
12	4	1.200	
Engine make/type	**Engine power (kW)**	**Hull material**	**Survey frequency**
		Aluminium	LOW

Class(es) and number of persons this vessel is certified to carry

Class	Crew	Unberthed passengers	Berthed passengers	Special personnel
2C				
2E				

Conditions

- FOR 2C - TO CARRY A MAXIMUM OF 0 PERSONS.
- FOR 2E - TO CARRY A MAXIMUM OF 4 PERSONS.
- PFD'S TO BE WORN AT ALL TIMES.
- NO PASSENGERS TO BE CARRIED.
- MAXIMUM DECK LOADING 1250 KG/M².
- TO BE OPERATED IN ACCORDANCE WITH THE CONDITIONS STATED IN AMSA EXEMPTION EX4[illegible]

This certificate is in force until 09 June 2022, unless suspended or revoked.

DELEGATE OF THE NATIONAL REGULATOR
PO Box 2181, Canberra ACT 2601
p 1800 627 484
w www.amsa.gov.a...

Certificate Number: COS-85776-001

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APPENDIX B – Incident Procedure

1. **Injury / Casualty**
2. **Man Overboard M.O.B**
3. **Collision**
4. **Fire**
5. **Stranding or Grounding**
6. **Flooding**
7. **Abandon Ship**
8. **Pollution**

1) Injury / Casualty

Actions to be carried out

- ☐ Alert crew of situation
- ☐ Determine nature and extent of injuries and location of injured person. Recover person / casualty aboard
- ☐ Prepare area for use as sick bay (clear area, first aid kit oxygen medical reference etc on hand)
- ☐ Have any identified medical or emergency trained passengers on standby to assist
- ☐ Move person / casualty to sick bay
- ☐ Place appropriately qualified person or crewmember in charge of administering first aid
- ☐ Record details of incident, symptoms and any other relevant details (first aid administered etc)
- ☐ Contact medical aid (000, rescue helicopter, ambulance, 13HEALTH) as necessary.
- ☐ Co-ordinate treatment / evacuation of patient / casualty with medical aid (rescue helicopter, ambulance etc)
- ☐ Inform shore management of situation
- ☐ Continue treatment / care / monitoring of patient until relieved by medical personnel
- ☐ Give ***copy*** of recorded details to medical aid
- ☐ Officially record incident once situation finalised and inform shore management of outcome

2) Man Overboard

Actions to be carried out

- ☐ Provide a positioning aid
- ☐ Note Ships position, wind speed and direction and Time
- ☐ If in sight provide flotation device / life ring
- ☐ Sound three prolonged blasts of the ships whistle and repeat as necessary
- ☐ Post a lookout with instructions to maintain a continuous watch on the man overboard
- ☐ Commence a recovery manoeuvre such as a Williamson turn or use of pusher or tender vessel in case of fixed barge or if elected to do so
- ☐ Ensure an area is being prepared for use as Sick Bay
- ☐ Broadcast Urgency message to ships in vicinity
- ☐ Manoeuvre vessel for persons recovery
- ☐ Recover person via use of main vessel or other boat
- ☐ Upon Recovery move person to sick bay administer First aid to person as required
- ☐ Obtain persons particulars if conscious
- ☐ Inform Shore Management of vessels situation and position
- ☐ Liaise with authorities

3) Collision

Action to be carried out

- ☐ Sound the general emergency alarm (seven short one long)
- ☐ Manoeuvre the ship so as to minimise effect of collision
- ☐ Close watertight doors
- ☐ Switch on deck lighting at night
- ☐ Switch VHF to channel 16
- ☐ Muster crew at emergency Muster Station
- ☐ Confirm vessels position
- ☐ Sound Bilges and tanks after collision
- ☐ Check for Fire Damage
- ☐ Offer assistance to other ship
- ☐ Broadcast DISTRESS ALERT and MESSAGE if the ship is in grave and imminent danger and immediate assistance is required, otherwise broadcast an urgency message to ships in the vicinity.
- ☐ Inform Shore Management of Vessels Position and situation
- ☐ Report Incident

4) Fire

Action to be carried out

- ☐ Sound the Fire Alarm
- ☐ Muster crew
- ☐ Establish communications
- ☐ Check for missing and injured crew members
- ☐ On locating the fire notify all onboard of that location
- ☐ Bring fire pumps on line
- ☐ Assess Fire and Determine
  - The class of Fire _____
  - Appropriate extinguishing agent _____
  - Appropriate method of attack _____
  - How to prevent the spread of fire _____
  - The necessary personnel and fire fighting methods _____
- ☐ Fight fire using appropriate methods and equipment
- ☐ Confirm vessels stability and status
- ☐ Confirm Ships position
- ☐ Broadcast DISTRESS ALERT and MESSAGE if the ship is in grave and imminent danger and immediate assistance is required otherwise broadcast an urgency message to ships in the vicinity
- ☐ Prepare area for use as sick bay and treat injured persons as required
- ☐ Report ships position and predicament to shore management and authorities

5) Stranding or Grounding

Action to be carried out

- ☐ Stop engines / propulsion
- ☐ Sound general emergency alarm
- ☐ Close watertight doors
- ☐ Maintain a VHF watch on channel 16 and if appropriate on Channel 13
- ☐ Exhibit lights / shapes and make any appropriate sound signals
- ☐ Check hull for damage
- ☐ Sound bilges and tanks
- ☐ Prevent / minimise any environment harm / pollution
- ☐ Visually inspect compartments, where possible
- ☐ Sound around ship
- ☐ Determine which way deep water lies
- ☐ Determine the nature of the sea bed
- ☐ Obtain information on local currents and tides particularly details of the rise and fall of the tide
- ☐ Reduce the draft of the ship
- ☐ Confirm Ships Position
- ☐ If possible and safe to do so navigate the vessel to deeper water
- ☐ Broadcast DISTRESS ALERT and MESSAGE if the ship is in grave and imminent danger and immediate assistance is required, otherwise broadcast an URGENCY message to ships in the vicinity
- ☐ Inform Shore Management of vessels position and situation, record / report incident

6) Flooding

Actions to be carried out

- [ ] Sound the general alarm
- [ ] Close watertight doors
- [ ] Sound bilges and tanks
- [ ] Identify location of incoming water
- [ ] Shore up area to stem water flow
- [ ] Check bilge pump for operation
- [ ] Check auxiliary pumps for back up operation as required
- [ ] Broadcast DISTRESS ALERT and MESSAGE if the ship is in grave and imminent danger and immediate assistance is required otherwise broadcast an urgency message to ships in the vicinity
- [ ] Report ships position and predicament to shore management

7) Abandoning Ship

Actions to be carried out

- ☐ Broadcast DISTRESS ALERT and MESSAGE on the authority of Master
- ☐ Crew to report to emergency stations
- ☐ Instruct crew members to put on life jackets and wear adequate warm clothing
- ☐ Muster at Muster Stations
- ☐ Sound Abandon ship signal (one short and one long)
- ☐ Embark all passengers and crew in life-crafts and lifeboat
- ☐ Master to ensure all other Emergency equipment, ships logs additional safety and first aid equipment on tender or pusher
- ☐ Ensure all tender / pusher stay attached to vessel until last possible moment and then maintain as close a proximity to each other as possible
- ☐ Report ships position and predicament to shore management

8) Pollution

Actions to be carried out

- ☐ Stop any bunkering operations being conducted
- ☐ Identify source of pollution
- ☐ Put in control measures to stop or minimise further pollution
- ☐ Use any available controls to contain and clean up pollution (vessels equipment shore equipment if available)
- ☐ Contact authorities (EPA, Harbour control, MSQ)
- ☐ Liaise with shore authorities in clean up
- ☐ Report situation to shore management

APPENDIX C – CYCLONE CONTINGENCY PROCEDURE

The cyclone contingency plan for TJS will ultimately conform to the Cyclone contingency plan for the area and the natural disaster response plans within the area of operation. Typically Cyclone contingency plans can be found from Maritime Safety Queensland (when operating within Queensland) or the local Harbour Master. Additionally Marinas within cyclone prone regions will have Cyclone contingency plans and strategies in place.

The effective implementation of a cyclone contingency plan relies on the entire plan being implemented correctly with regard to all influencing factors. Thus the location which will ultimately be chosen for the vessel to be moored during an event will have to align with any other plans in place in the area. If the vessel is to operate within a region or area prone to Tropical cyclones during the cyclone season the local cyclone contingency plan is to be carried onboard and available for reference by the vessels crew.

Not withholding any alignment with existing area plans the following information should act as guidance to vessels master and crew for the preparation for a tropical cyclone in the vicinity. The below table is to be completed for the area which the vessel is operating in.

Quick reference table		
Safe haven / Position to moor COBIA	Vessel to be secured in most sheltered clear position on or adjacent to site	
Mooring Method	Spudded and Anchor	
Pusher Barge mooring position	Chained in position hipped up	
Support Vessels and Dumb Barges	Move to Logistics facility remove from water if required	
Local Emergency contacts	**MSQ**	36327500 business hours 33051700 after hours incident
	Harbour Master	RHMBrisbane@msq.qld.gov.au
	Redlands VMR	32067777

Actions to undertake in the Event of a tropical cyclone threat

- Move vessel to position where vessel is to remain moored for the event. Position is to be predetermined and Management is to be aware of vessels location and proposed location at all times.
- Spud vessel in and ensure depth and spud length appropriate for event (work on minimum 2.5m spud to be available at high tide for storm surge). Spuds are to be "tapped" in with drop hammer to ensure effective embedment for the event. (This will be under the direction of the barge foreman). Spud plates are to be chained down as per normal operating procedures (spud plates may be removed under barge foreman's direction this will depend on time available conditions at time and areas exposure).
- Vessels anchor is to be deployed and secured to vessel appropriately, again leave enough scope for 2.5m storm surge at high tide and some scope to allow catenary curve but not excessively large scope if obstructions are near. Direction for anchor to be laid from vessel will vary with location. Typically the strongest winds will come from the south east in the approach of the cyclone, following the cyclone passing these will back towards the North which typically offers less protection in most Queensland ports, depending upon the expected path and the surrounding protection the anchor direction will be chosen to best suit.
- Deck equipment which is possible to secure and store below decks is to be stowed appropriately.
- Additional deck equipment should be secured and strapped / chained down appropriately. Rig is to be laid down and chained down.
- Bilges are to be ensured dry. All Sea cocks are to be closed.
- Crane is to be slewed and slew brake engaged so as to offer minimal resistance. As a guide this should be such that the boom points in a North-westerly direction if possible. This will also orientate the barge as level trim will need to be ensured.
- Crane hooks to be secured (hooked up to the deck)
- Boom to be laid down to appropriate angle (lower angle less windage) will be determined by site and proximity to other vessels and structures.
- If vessel is to be secured or moored alongside a structure (Marina, Wharf, Jetty or pylons) care will have to be taken to ensure the orientation of the crane does not interfere with structure during the tidal cycle. This may mean orientation is determined by surrounding structure not direction in this instance.
- If possible Vessel is to seek shelter where it may be secured to additional structure (wharf, jetty etc). In this case additional lines should be run to secure vessel.
- All deck hatches are to be secured and shut.
- Harbour master / maritime authorities are to be advised of vessels location and measures put in place.
- Pusher Barge is to be removed and moored separately in Marina if possible, if not it is to be securely fastened to the vessel with rope and chain.

No staff to remain on the vessel during an event.

Any reasonable directions given by authorities (Maritime Safety Queensland, AMSA, Police, Emergency services personnel or Marina Management (if appropriate)) are to be followed.

Queensland Government

Queensland Treasury

SARA reference: 2005-16731 SDA

6 August 2020

Department of Transport and Main Roads
c/- Cardno
GPO Box 1412
BRISBANE QLD 4001

Email:

Dear Sir/Madam

SARA Decision notice— 166-174 The Esplanade, Karragarra Island

(Assessment Manager decision notice given under section 63 of the *Planning Act 2016*)

The development application described below was confirmed as properly made by the State Assessment and Referral Agency (SARA) on 13 May 2020.

Decision

Outcome:	Approved, subject to conditions
Date of decision:	6 August 2020
Conditions:	The approval is subject to the conditions in **Attachment 1**.
Advice:	Advice to the applicant is in **Attachment 2**.
Reasons:	The reasons for decisions are in **Attachment 3**.
Currency period:	This development approval will lapse if development is not started within the currency periods stated in section 85 of the *Planning Act 2016*.

Development Details

Description:	Development Permit for Operational Work for upgrading and replacing ferry terminals (jetties, gangways and pontoons)
SARA role:	Assessment manager
SARA trigger:	Schedule 8, Table 4, Item 3(e) - Operational work that is the removal, destruction or damage of a marine plant Schedule 8, Table 4, Item 3(l) – Operational work that is - (i) tidal works not in the tidal area for a local government area or strategic port land; or (ii) work carried out completely or partly within a coastal management district
SARA reference:	2005-16731 SDA

South East Queensland (South) regional office
Level 1, 7 Short Street, Southport
PO Box 3290, Australia Fair, Southport QLD 4215

Street address:	166-174 The Esplanade, Karragarra Island
Real property description:	Lot 2 on RP178377
Local government area:	Redland City Council
Applicant name:	Department of Transport and Main Roads c/- Cardno
Applicant contact details:	GPO Box 1412 Brisbane QLD 4001

Additional details

Native title considerations:	Native title is not extinguished, but is supressed for the life of the facility. As no notification is given to freehold property owners under the *Planning Act 2016*, no notification is required to be given to the native title parties.
Further development permits:	No further development permits are required to be obtained before the development can be carried out.
Level of assessment:	Code assessable

Dispute resolution

Representations:	The rights of applicants to make representations about this decision notice during the applicant's appeal period is set out in Chapter 3, Part 5 of the *Planning Act 2016*. Copies of the relevant provisions are in **Attachment 4**.
Appeal:	The rights of applicants to appeal to a tribunal or the Planning and Environment Court against decisions about a development application are set out in Chapter 6, Part 1 of the Planning Act. Copies of the relevant appeal provisions are in **Attachment 5**.

For further information please contact Planning Officer, on or via email SEQSouthPlanning@dsdmip.qld.gov.au who will be pleased to assist.

Yours sincerely

Manager, Planning and Development Services (SEQ South)

enc **Attachment** 1 – Assessment manager conditions
Attachment 2 – Advice to the applicant
Attachment 3 – Reasons for the decision
Attachment 4 – Negotiated decision provisions
Attachment 5 – Appeal provisions
Attachment 6 – Approved plans and specifications

cc Redland City Council, damailbox@redland.qld.gov.au

Attachment 1—Assessment manager conditions

(Given under section 63(2)(e)(ii) of the *Planning Act 2016*)
(Copies of the plans and specifications referenced below are found at **Attachment 6**)

No.	Conditions of Development Approval	Condition Timing
Development Permit for Operational Works (Tidal Works)		
Schedule 8, Table 4, Item 3 (l)(i) —The chief executive administering the *Planning Act 2016* nominates the Director-General of the Department of Environment and Science to be the enforcement authority for the development to which this development approval relates for the administration and enforcement of any matter relating to the following condition(s):		
1.	The construction of the jetty, pontoon and shoreline facilities, relocation of the pontoon and demolition activities must be undertaken generally in accordance with the following plans: a) Proposed Site Plan prepared by Queensland Government, dated 25-06-2020, Drawing Number: 4012, version 5. b) Landside and Jetty General Arrangement prepared Queensland Government, dated 25-06-2020, Drawing Number: 4020, version 5. c) Landside and Jetty Sections – Sheet 1 prepared by Queensland Government, dated 14-04-2020, Drawing Number: 4052, version 2. d) Architectural Pontoon Layout Plan prepared by Queensland Government, dated 14/04/2020, Drawing Number: 4070, version 4. e) Maritime Pile Plan prepared by Queensland Government, dated 14-04-2020, Drawing Number: 4305, version 4. f) Architectural Demolition Plan, prepared by Queensland Government, dated 02-07-2020, Drawing Number 4011, version 3.	For the duration of the works.
2.	For the proposed works, only use clean materials and ensure that the works do not cause contamination.	For the duration of the works.
3.	Erosion and sediment control measures which are in accordance with Best Practice Erosion and Sediment Control guidelines for Australia (International Erosion Control Association), are to be installed and maintained to prevent the release of sediment to tidal waters.	For the duration of the works.
4.	Should the jetty and/or pontoon structures collapse, fail or otherwise suffer structural consequences which impact their integrity or ability to function as intended, the works must be: a. reinstated in accordance with this development approval; or b. removed and disposed of at an appropriately licensed facility.	As soon as reasonably practicable subsequent to the damage.
5.	(a) Obtain RPEQ certification confirming that the tidal works, have been constructed in accordance with the current version of the Department's guideline 'Building and engineering standards for tidal works. (b) A copy of the certification must be provided to palm@des.qld.gov.au or mailed to: Department of Environment and Science	Within two (2) weeks of the completion of the works

No.	Conditions of Development Approval	Condition Timing
	Permit and Licence Management Implementation and Support Unit GPO Box 2454 Brisbane Qld 4001	
6.	Submit "As Constructed drawings" to palm@des.qld.gov.au or mail to: Department of Environment and Science Permit and Licence Management Implementation and Support Unit GPO Box 2454 Brisbane Qld 4001	Within two (2) weeks of the completion of the works.
7.	(a) In the event that the works cause disturbance or oxidisation of acid sulfate soil, the affected soil must be treated and thereafter managed (until the affected soil has been neutralised or contained) in accordance with the current *Queensland Acid Sulfate Soil Technical Manual: Soil management guidelines*, prepared by the Department of Science, Information Technology, Innovation and the Arts, 2014. (b) Certification by an appropriately qualified person, confirming that the affected soil has been neutralised or contained, in accordance with (a) above is to be provided to palm@des.qld.gov.au or mailed to: Department of Environment and Science Permit and Licence Management Implementation and Support Unit GPO Box 2454 Brisbane Qld 4001 Appropriately qualified person means a person or persons who has professional qualifications, training, skills and experience relevant to soil chemistry or acid sulfate soil management and can give authoritative assessment, advice and analysis in relation to acid sulfate soil management using the relevant protocols, standards, methods or literature	(a) Upon disturbance or oxidisation until the affected soil has been neutralised or contained. (b) At the time the soils have been neutralised or contained.
Development Permit for Operational Works (Removal, destruction or damage of a marine plants)		
Schedule 8, Table 4, Item 3 (e)—The chief executive administering the *Planning Act 2016* nominates the Director-General of the Department of Agriculture and Fisheries to be the enforcement authority for the development to which this development approval relates for the administration and enforcement of any matter relating to the following condition(s):		
8.	Development authorised under this approval is limited as follows: (a) operational works to permanently remove, damage, destroy marine plants being limited to 425 square metres of marine plants as shown in the construction footprint on: • Marine Plants in the study area Karragarra Island, prepared by Cardno, dated 2020-07-17, figure 02_ V4.mxd 03 as amended in red by SARA on 6 August 2020 to show the location of marine plants.	At all times.
9.	The construction of the jetty, pontoon and shoreline facilities, relocation of the pontoon and demolition activities must be carried	At all times

No.	Conditions of Development Approval	Condition Timing
	out generally in accordance with the following plans: a) Architectural Demolition Plan, prepared by Queensland Government, dated 02-072020, Drawing Number 4011, version 3. b) Proposed Site Plan prepared by Queensland Government, dated 25-06-2020, Drawing Number: 4012, version 5. c) Maritime Pile Plan prepared by Queensland Government, dated 14-04-2020, Drawing Number: 4305, version 4. d) Maritime Pile Plan prepared by Queensland Government, dated 14-04-2020, Drawing Number: 4306, version 1.	
	Provide written notice to notifications@daf.qld.gov.au, when the development authorised under this approval: (a) will start, and (b) when it has been completed. These notices must state this permit number: 2005-16731 SDA	(a) At least 5 business days but no greater than 20 business days prior to the commencement of the works. (b) Within 15 business days of the completion of the fisheries development works.
	Spoil is not disposed of on tidal lands or within waterways and is managed to prevent acid soil development	At all times.
	This fisheries development (as defined by the *Fisheries Act 1994*) constitutes a place that is required to be open for inspection by an inspector at all times, pursuant to section 145 of the *Fisheries Act 1994*.	At all times.
	Tidal land profiles that are temporarily disturbed by the development works, other than those within the permanent development footprint, as shown on Architectural Demolition Plan, prepared by Queensland Government, dated 02-07-2020, Drawing Number 4011, version 3 and Proposed Site Plan prepared by Queensland Government, dated 25/06/2020, Drawing Number: 4012, version 5, must be promptly restored to pre-work profiles.	Upon completion of the works the subject of this approval.
	Enter into an agreed delivery arrangement to deliver an environmental offset in accordance with the *Environmental Offsets Act 2014* to counterbalance the significant residual impacts on the matter/s of state environmental significance being 425 square metres of marine plants	Prior to commencing any works that impact on the marine plants

Attachment 2—Advice to the applicant

General advice	
1.	Terms and phrases used in this document are defined in the Planning Act 2016 its regulation or the State Development Assessment Provisions version 2.6 (SDAP). If a word remains undefined it has its ordinary meaning.
2.	**The removal, destruction or damage of marine plants** It is noted that a combined Significant Residual Impact area and nominated financial offset amount was provided by the applicant for all four ferry terminal upgrade applications in response to further advice Please note that a separate Notice of Election will be required for each development approval. The Notice of Election for the Significant Residual Impact of 425 square metres associated with this development approval (2005-16731 SDA) should be submitted to planningassessment@daf.qld.gov.au. An Agreed Delivery arrangement must be entered into prior to any impact on the Matters of State Environmental Significance (marine plants).

Attachment 3—Reasons for the decision

(Given under section 63(5) of the *Planning Act 2016*)

The reasons for SARA's decision are:

- The proposed development complies with the relevant performance outcomes of State code 8: Coastal development and tidal works and State code 11: Removal, destruction or damage of marine plants of the SDAP.
- All development components proposed to be located on tidal land have a functional requirement to be located there, including piling for jetties, pontoons, gangplanks and guide poles.
- The proposed development provides a public facility that supports essential public transport to and between the islands that cannot be practically provided in any other way.
- The proposed development will not increase the risk or impacts to people and property from coastal erosion, as it is located within a modified environment that has existing coastal protection works.
- Potential impacts to water quality will be regulated through design features and construction measures, as well as a Construction Environmental Management Plan and accompanying erosion and sediment control plan.
- The proposed development avoids, minimises and mitigates impacts on Matters of State Environmental Significance through its design, specific techniques used and retaining some of the existing structures.
- The proposed development results in a permanent impact of 425 square metres of marine plants, which constitutes a Significant Residual Impact and as such, an offset will be provided.

Material used in the assessment of the application:

- The development application material and submitted plans
- *Planning Act 2016*
- Planning Regulation 2017
- The SDAP as published by the SARA
- The Development Assessment Rules
- SARA DA Mapping system

Attachment 4—Negotiated decision provisions

Attachment 5—Appeal provisions

Attachment 6—Approved plans and specifications

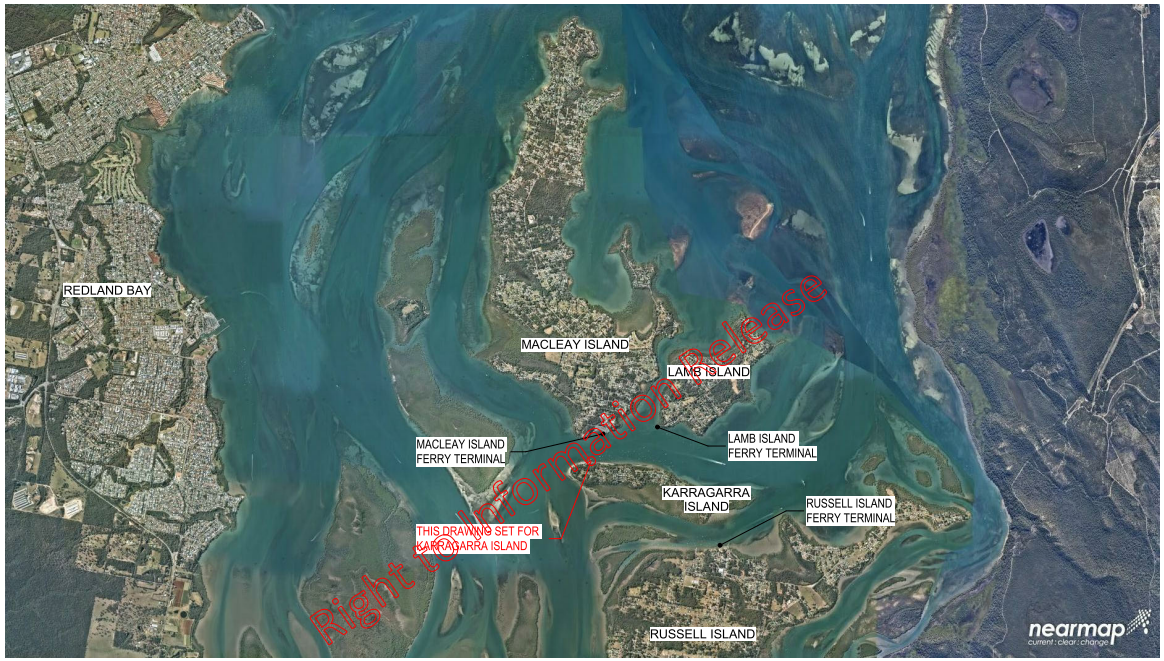
(given under section 43 (b) of the Planning Regulation 2017)

ISSUE FOR TENDER

SOUTHERN MORETON BAY ISLANDS FERRY TERMINALS DESIGN

KARRAGARRA ISLAND

Cardno architectus



3	ISSUED FOR TENDER		18-08-20	
2	PRELIMINARY DESIGN RE-ISSUE		17-01-20	
1	PRELIMINARY DESIGN ISSUE		08-11-19	
	Revisions/Descriptions	Certification	Date	Microfiled

CAD FILES: BIM 360://7905-29 SMBI Ferry Terminal Designs/46700408 – SMBI – Karragarra Island – PM – Jetty and Gangway.rvt

Last Modified: - 18/08/2020 3:27:00 PM

Associated Job Nos

Auxiliary Drg Nos

Survey Data	
Datum	GDA94
Horiz. Grid	MGA Z56
Height Origin	AHD
Survey Books	

Scales

Dimensions shown in millimetres except where shown otherwise

SOUTHERN MORETON BAY
SOUTHERN MORETON BAY ISLANDS
KARRAGARRA ISLAND

FERRY TERMINALS DESIGN

Drawn	GW
Checked	EC
Designed	LB
Design Review	MN
Date	18-08-2020

COVER SHEET AND LOCALITY PLAN

ENGINEERING CERTIFICATION (RPEQ)

ENG. AREA	NAME	SIGNATURE	NO.	DATE

Queensland Government

File No.	467/00408
Contract. No.	CN-12653
Drawing No.	4000 | 3
Project No.	TMR29-130
MRM_Detail (05/14)	BN-70-1

ISSUE FOR TENDER

Cardno architectus

KARRAGARRA ISLAND DRAWING LISTS

4000 COVER SHEET AND LOCALITY PLAN
4001 DRAWING LISTS
4002 STRUCTURAL LANDSIDE SHELTERS GENERAL NOTES SHEET 1
4003 STRUCTURAL LANDSIDE SHELTERS GENERAL NOTES SHEET 2
4006 MARITIME JETTY, GANGWAY AND PONTOON GENERAL NOTES SHEET 1
4007 MARITIME JETTY, GANGWAY AND PONTOON GENERAL NOTES SHEET 2
4008 MARITIME PONTOON SUPERSTRUCTURES GENERAL NOTES
4009 EXISTING PUBLIC UTILITIES PLAN

ARCHITECTURAL DRAWING LIST
4010 ARCHITECTURAL EXISTING CONDITIONS PLAN
4011 ARCHITECTURAL DEMOLITION PLAN
4012 ARCHITECTURAL PROPOSED SITE PLAN
4020 ARCHITECTURAL LANDSIDE AND JETTY GENERAL ARRANGEMENT PLAN
4030 ARCHITECTURAL LANDSIDE AND JETTY REFLECTED CEILING PLAN
4040 ARCHITECTURAL LANDSIDE AND JETTY ROOF PLAN
4050 ARCHITECTURAL LANDSIDE AND JETTY ELEVATIONS - SHEET 1
4051 ARCHITECTURAL LANDSIDE AND JETTY ELEVATIONS - SHEET 2
4052 ARCHITECTURAL LANDSIDE AND JETTY SECTIONS - SHEET 1
4053 ARCHITECTURAL LANDSIDE AND JETTY SECTIONS - SHEET 2
4054 ARCHITECTURAL LANDSIDE AND JETTY SECTIONS - SHEET 3
4055 ARCHITECTURAL LANDSIDE AND JETTY SECTIONS - SHEET 4
4060 ARCHITECTURAL LANDSIDE AND JETTY PERSPECTIVES
4065 ARCHITECTURAL LANDSIDE AND JETTY SCREEN ELEVATIONS
4070 ARCHITECTURAL PONTOON LAYOUT PLAN
4071 ARCHITECTURAL PONTOON REFLECTED CEILING PLAN
4072 ARCHITECTURAL PONTOON ROOF PLAN
4073 ARCHITECTURAL PONTOON ELEVATIONS
4075 ARCHITECTURAL PONTOON FINISHES PLAN
4080 ARCHITECTURAL PONTOON SECTIONS SHEET 1
4081 ARCHITECTURAL PONTOON SECTIONS SHEET 2
4082 ARCHITECTURAL PONTOON SECTIONS SHEET 3
4090 ARCHITECTURAL LANDSIDE AND JETTY STAIR DETAILS
4091 ARCHITECTURAL LANDSIDE AND JETTY RAMP DETAILS
4095 ARCHITECTURAL PONTOON GENERAL DETAILS ROOF
4096 ARCHITECTURAL PONTOON GENERAL DETAILS SLIDING GATE
4100 ARCHITECTURAL PONTOON PERSPECTIVES
4110 ARCHITECTURAL PONTOON SCREEN DETAILS - SHEET 1
4111 ARCHITECTURAL PONTOON SCREEN DETAILS - SHEET 2
4112 ARCHITECTURAL PONTOON SCREEN DETAILS - SHEET 3
4115 ARCHITECTURAL LANDSIDE AND JETTY GENERAL DETAILS GATE
4116 ARCHITECTURAL LANDSIDE AND JETTY GENERAL DETAILS SCREENS AND BALUSTRADES
4120 ARCHITECTURAL LANDSIDE AND JETTY DOOR AND GATE SCHEDULE

LANDSIDE STRUCTURES DRAWING LIST
4201 STRUCTURAL LANDSIDE SHELTERS FOOTING PLAN
4205 STRUCTURAL LANDSIDE SHELTERS SLAB PLAN
4220 STRUCTURAL LANDSIDE SHELTERS FOOTING AND SLAB DETAILS SHEET 1
4221 STRUCTURAL LANDSIDE SHELTERS FOOTING AND SLAB DETAILS SHEET 2
4222 STRUCTURAL LANDSIDE SHELTERS FOOTING AND SLAB DETAILS SHEET 3
4223 STRUCTURAL LANDSIDE SHELTERS FOOTING AND SLAB DETAILS SHEET 4
4227 STRUCTURAL LANDSIDE SHELTERS BULK EARTHWORKS SHEET 1
4228 STRUCTURAL LANDSIDE SHELTERS BULK EARTHWORKS SHEET 2
4230 STRUCTURAL LANDSIDE SHELTERS FRAMING PLAN
4235 STRUCTURAL LANDSIDE SHELTERS PURLIN PLAN
4240 STRUCTURAL LANDSIDE SHELTERS SECTIONS AND ELEVATIONS SHEET 1
4250 STRUCTURAL LANDSIDE SHELTERS STEEL DETAILS SHEET 1
4251 STRUCTURAL LANDSIDE SHELTERS STEEL DETAILS SHEET 2

MARITIME STRUCTURES DRAWING LIST
4301 MARITIME GENERAL ARRANGEMENT PLAN
4302 MARITIME GENERAL ELEVATION AND SECTIONS
4305 MARITIME PILE PLAN - SHEET 1
4306 MARITIME PILE PLAN - SHEET 2
4307 MARITIME PILE AND PILE PLUG DETAILS - MARITIME
4310 MARITIME JETTY HEADSTOCK PLAN
4311 MARITIME JETTY HEADSTOCK HS01 AND HS02 DETAILS
4312 MARITIME JETTY HEADSTOCK HS03 DETAILS
4313 MARITIME JETTY HEADSTOCK DETAILS
4314 MARITIME JETTY PRECAST DECK AND FLOOR FRAMING PLAN - MARITIME
4315 MARITIME JETTY PRECAST SLAB PC01 DETAILS
4316 MARITIME JETTY PRECAST SLAB PC02 DETAILS
4318 MARITIME JETTY INSITU SLAB PLAN
4319 MARITIME JETTY INSITU SLAB SECTION
4320 MARITIME JETTY FRAMING - EAST ELEVATION
4325 MARITIME JETTY SECTIONS
4340 MARITIME JETTY ROOF FRAMING PLAN
4345 MARITIME JETTY ROOF DETAILS - SHEET 1
4346 MARITIME JETTY ROOF DETAILS - SHEET 2
4347 MARITIME JETTY ROOF DETAILS - SHEET 3
4360 MARITIME PONTOON HULL PLANS SHEET 1
4361 MARITIME PONTOON HULL PLANS SHEET 2
4362 MARITIME PONTOON HULL PROFILES SHEET 1
4363 MARITIME PONTOON HULL PROFILES SHEET 2
4364 MARITIME PONTOON HULL SECTIONS SHEET 1
4365 MARITIME PONTOON HULL SECTIONS SHEET 2
4366 MARITIME PONTOON HULL DETAILS SHEET 1
4367 MARITIME PONTOON HULL DETAILS SHEET 2
4368 MARITIME PONTOON HULL DETAILS SHEET 3
4369 MARITIME PONTOON BRACKET DETAILS
4370 MARITIME PONTOON HATCH DETAILS
4371 MARITIME PONTOON WELD DETAILS
4372 MARITIME PONTOON BALLAST PLAN
4388 MARITIME PONTOON FURNITURE PLAN
4389 MARITIME PONTOON SECTION
4390 MARITIME PONTOON FURNITURE DETAILS
4391 MARITIME GANGPLANK DETAILS - SHEET 1
4392 MARITIME GANGPLANK DETAILS - SHEET 2
4393 MARITIME GANGPLANK DETAILS - SHEET 3
4394 MARITIME PILE BRACKET DETAILS
4396 MARITIME PONTOON BALLUSTRADE DETAILS - SHEET 1
4397 MARITIME PONTOON BALLUSTRADE DETAILS - SHEET 2
4398 MARITIME PONTOON ALUMINIUM BATTEN SCREEN DETAILS
4400 MARITIME PONTOON ROOF FRAMING PLAN
4405 MARITIME PONTOON FRAMING ELEVATIONS
4420 MARITIME PONTOON ROOF DETAILS SHEET 1
4421 MARITIME PONTOON ROOF DETAILS SHEET 2
4460 MARITIME RECREATIONAL FACILITIES EXISTING PONTOON REPURPOSING

ELECTRICAL DRAWING LIST
4500 ELECTRICAL LEGEND OF SYMBOLS
4501 ELECTRICAL GENERAL NOTES AND LUMINAIRE SCHEDULE
4502 ELECTRICAL ELECTRICAL INFRASTRUCTURE SITE PLAN
4503 ELECTRICAL COMMUNICATIONS INFRASTRUCTURE SITE PLAN
4510 ELECTRICAL LANDSIDE AND JETTY LIGHTING AND POWER LAYOUT
4515 ELECTRICAL LIGHTING CALCULATION SUMMARY AND CONTROL STRATEGY
4520 ELECTRICAL LANDSIDE AND JETTY SECURITY AND COMMUNICATIONS LAYOUT
4530 ELECTRICAL GANGWAY LIGHTING, POWER AND COMMUNICATIONS LAYOUT
4540 ELECTRICAL PONTOON LIGHTING, POWER AND COMMUNICATIONS LAYOUT
4600 ELECTRICAL ELECTRICAL SCHEMATICS (1 of 2)
4601 ELECTRICAL ELECTRICAL SCHEMATICS (2 of 2)
4610 ELECTRICAL SECURITY AND COMMUNICATIONS SCHEMATICS

HYDRAULIC DRAWING LIST
4705 HYDRAULICS LEGEND AND NOTES
4710 HYDRAULICS ALL SERVICES SITE PLAN
4720 HYDRAULICS ALL SERVICES FLOOR PLAN - SHEET 1
4721 HYDRAULICS ALL SERVICES FLOOR PLAN - SHEET 2
4722 HYDRAULICS ALL SERVICES ROOF PLAN - SHEET 1
4723 HYDRAULICS ALL SERVICES ROOF PLAN - SHEET 2
4740 HYDRAULICS ALL SERVICES DETAILS

SIGNAGE DRAWING LIST
4801 SIGNAGE AND WAYFINDING SITE PLAN
4802 SIGNAGE AND WAYFINDING LANDSIDE AND JETTY SIGN LOCATION PLAN
4805 SIGNAGE AND WAYFINDING PONTOON SIGN LOCATION PLAN
4807 SIGNAGE AND WAYFINDING GRAPHIC REFERENCE SHEET 1
4808 SIGNAGE AND WAYFINDING GRAPHIC REFERENCE SHEET 2
4810 SIGNAGE AND WAYFINDING PONTOON SIGN TYPE DRAWING - DR1A DIRECTIONAL SIGN - WALL MOUNTED
4814 SIGNAGE AND WAYFINDING LANDSIDE AND JETTY SIGN TYPE DRAWING - DR3A MAJOR DIRECTIONAL SIGN - OVER GATE
4818 SIGNAGE AND WAYFINDING LANDSIDE AND JETTY SIGN TYPE DRAWING - ID1A STATION IDENTIFICATION - TOTEM
4820 SIGNAGE AND WAYFINDING PONTOON SIGN TYPE DRAWING - ID2A TERMINAL IDENTIFICATION - FIXED TO STRUCTURE
4822 SIGNAGE AND WAYFINDING PONTOON SIGN TYPE DRAWING - ID3A TERMINAL IDENTIFICATION - INTEGRATED WITH FASCIA
4824 SIGNAGE AND WAYFINDING LANDSIDE AND JETTY SIGN TYPE DRAWING - ID4A STATION IDENTIFICATION SIGN - ON SHELTER
4826 SIGNAGE AND WAYFINDING LANDSIDE AND JETTY SIGN TYPE DRAWING - ID5A MINOR IDENTIFICATION SIGN - SUSPENDED
4828 SIGNAGE AND WAYFINDING PONTOON SIGN TYPE DRAWING - ID6A PLATFORM IDENTIFICATION - FIXED TO COLUMN
4834 SIGNAGE AND WAYFINDING SIGN TYPE DRAWING - IF2A & IF2B INFORMATION CABINETS
4838 SIGNAGE AND WAYFINDING PONTOON SIGN TYPE DRAWING - RG1A MINOR REGULATORY ADVICE - BALUSTRADE MOUNTED
4840 SIGNAGE AND WAYFINDING LANDSIDE AND JETTY SIGN TYPE DRAWING - RG1B MAJOR REGULATORY ADVICE - BALUSTRADE MOUNTED
4842 SIGNAGE AND WAYFINDING SIGN TYPE DRAWING - RG2A REGULATORY SIGN - VACATE SEAT
4844 SIGNAGE AND WAYFINDING SIGN TYPE DRAWING - RG2B REGULATORY SIGN - PWD ZONE
4846 SIGNAGE AND WAYFINDING PONTOON SIGN TYPE DRAWING - RG3A REGULATORY SIGN - GANGWAY WARNING
4848 SIGNAGE AND WAYFINDING PONTOON SIGN TYPE DRAWING - RG3B REGULATORY SIGN - PONTOON WARNING
4850 SIGNAGE AND WAYFINDING PONTOON SIGN TYPE DRAWING - RG4A REGULATORY SIGN - GATE WARNING
4852 SIGNAGE AND WAYFINDING LANDSIDE AND JETTY SIGN TYPE DRAWING - RG5A REGULATORY SIGN - STRUCTURAL LOADING

2	REVISED ISSUE FOR TENDER		31-08-20	
1	ISSUED FOR TENDER		18-08-20	
	Revisions/Descriptions	Certification	Date	Microfiled

CAD FILES: BIM 360://7905-29 SMBI Ferry Terminal Designs/46700408 – SMBI – Karragarra Island – PM – Jetty and Gangway.rvt

Last Modified :- 10/8/2020 2:46:48 PM

Associated Job Nos

Auxiliary Drg Nos

Survey Data

Datum	GDA94
Horiz. Grid	MGA Z56
Height Origin	AHD
Survey Books	

Scales

Dimensions shown in millimetres except where shown otherwise

SOUTHERN MORETON BAY
SOUTHERN MORETON BAY ISLANDS
KARRAGARRA ISLAND

FERRY TERMINALS DESIGN

Drawn	GW
Checked	EC
Designed	LB
Design Review	MN
Date	31-08-2020

DRAWING LISTS

ENGINEERING CERTIFICATION (RPEQ)

ENG. AREA	NAME	SIGNATURE	NO.	DATE

Queensland Government

File No.	467/00408
Contract. No.	CN-12653
Drawing No.	4001 | 2
Project No.	TMR29-130
MRM_Detail (05/14)	BN-70-1

ISSUE FOR TENDER

Cardno architectus

GENERAL NOTES:

1. THESE DRAWINGS AND NOTES ARE TO BE READ IN CONJUNCTION WITH ARCHITECTURAL AND OTHER WORKING DRAWINGS, SPECIFICATIONS, AND WITH SUCH FURTHER DETAILS, AND INSTRUCTIONS WHICH MAY BE ISSUED. REFER ALL DISCREPANCIES TO THE ENGINEER BEFORE PROCEEDING WITH WORK.
2. CONSTRUCTION OF ALL STRUCTURAL AND CIVIL WORK SHALL COMPLY WITH CURRENT EDITIONS OF RELEVANT SAA CODES.
3. DIMENSIONS SHALL BE VERIFIED BEFORE COMMENCING CONSTRUCTION. DO NOT SCALE DRAWINGS TO OBTAIN DIMENSIONS.
4. THROUGHOUT CONSTRUCTION THE STRUCTURE SHALL BE MAINTAINED IN A STABLE CONDITION AND NO PART SHALL BE OVER STRESSED.
5. CONSTRUCTION SYSTEMS, PROCEDURES AND METHODOLOGY OF STRUCTURAL AND CIVIL WORK SHALL ENSURE COMPLIANCE WITH THE LOCAL AUTHORITY WORKPLACE HEALTH AND SAFETY LEGISLATION.

DESIGN CRITERIA:

1. THE STRUCTURAL ELEMENTS SHOWN ON THESE DRAWINGS HAVE BEEN DESIGNED FOR THE FOLLOWING:
   WIND LOADS TO AS/NZS 1170.2
   REGION ..... B
   TERRAIN CATEGORY 1
   BCA STRUCTURE IMPORTANCE LEVEL 2
   Vdes, θ ..... 56.9 m/s
   EARTHQUAKE LOADS TO AS 1170.4
   BCA STRUCTURE IMPORTANCE LEVEL 2
   SITE SUBSOIL CLASS ..... Ce
   HAZARD FACTOR (Z) 0.08
   DESIGN CATEGORY 1
2. CONCRETE ELEMENTS HAVE BEEN DESIGNED FOR THE FOLLOWING DURABILITY EXPOSURE TO AS 3600 (B1 EXPOSURE U.N.O.)
   EXTERNAL B2
   INTERNAL ..... N/A
   FOOTINGS B2

SITE MANAGEMENT:

1. SITE CLASSIFICATION : CLASS H1 (HIGHLY REACTIVE)
2 GARDENS SHOULD NOT BE LOCATED WITHIN 2 METRES OF THE BUILDING.
3. TREES SHOULD NOT BE LOCATED WITHIN A DISTANCE EQUAL TO 0.75 TIMES THEIR MATURE HEIGHT FROM THE BUILDING.
4. SERVICE TRENCHES MUST BE KEPT AT LEAST 1500 mm CLEAR FROM THE BUILDING.
5. REPAIR ALL LEAKS IN DRAINAGE PIPES AS SOON AS THEY ARE DISCOVERED.
6. REFER TO CSIRO PAMPHLET BTF 18 "FOUNDATION MAINTENANCE AND FOOTING PERFORMANCE: A HOMEOWNERS GUIDE" AND FOLLOW RECOMMENDATIONS WITHIN.

DEMOLITION AND CLEARING NOTES:

1. PRIOR TO CLEARING AND DEMOLITION OPERATIONS REMOVE WITHOUT DAMAGING, ALL EXISTING INFRASTRUCTURE TO BE REUSED OR STORED AS NOTED AND DIRECTED BY THE SUPERINTENDENT.
2. CLEARING AND DEMOLITION OPERATIONS SHALL BE CARRIED OUT ONLY WITHIN THOSE AREAS AFFECTED BY THE PROPOSED WORKS UNLESS NOTED OTHERWISE.
3. DEMOLISH EXISTING REDUNDANT INFRASTRUCTURE SUCH AS KERBS, PAVEMENT SEALS, CONCRETE FOOTPATHS, ABANDONED SERVICE STRUCTURES ETC. TO A DEPTH OF 500mm BELOW PROPOSED PAVEMENT SUBGRADE LEVEL AND 300mm BELOW FINISHED LEVEL IN ALL OTHER AREAS AND REFILL AS NOTED BELOW. DISPOSE OF ALL SUCH MATERIAL OFF SITE.
4. CLEAR RUBBISH, SCRUB, TREES, STUMPS ETC. AND GRUB OUT STUMPS AND ROOTS OVER 50mm DIAMETER TO A DEPTH OF 500mm BELOW PROPOSED PAVEMENT SUBGRADE LEVEL AND 300mm BELOW FINISHED LEVEL IN ALL OTHER AREAS AND REFILL AS NOTED BELOW.
5. REFILL DEMOLITION EXCAVATIONS AND GRUB HOLES WITH ON SITE MATERIAL WON FROM CUT AREAS SUITABLE FOR USE AS FILL MATERIAL (REFER EARTHWORKS NOTES). PLACE AND COMPACT FILL MATERIAL IN ACCORDANCE WITH EARTHWORKS NOTES.

SAFETY IN DESIGN AND CONSTRUCTION:

1. ALL CONSTRUCTION WORK SHALL COMPLY WITH THE REQUIREMENTS OF THE LOCAL AUTHORITY WORKPLACE HEALTH AND SAFETY LEGISLATION.
2. CONSTRUCTION ACTIVITY CAN BE HAZARDOUS AND POTENTIAL SAFETY HAZARDS CONSIDERED BY THE DESIGNERS TO HAVE A HIGHER RISK THAN NORMAL CONSTRUCTION ACTIVITY ARE IDENTIFIED WITH APPROPRIATE NOTES IN THE DOCUMENTATION.
3. DESIGNERS GENERALLY HAVE A LOWER LEVEL OF APPRECIATION OF THE SAFETY RISKS AND HAZARDS INVOLVED IN CONSTRUCTION COMPARED TO THAT OF A COMPETENT BUILDER / CONTRACTOR AND THEREFORE ALL THE SAFETY RISKS AND HAZARDS APPLICABLE TO THIS PROJECT MAY NOT BE IDENTIFIED.
4. IT IS ESSENTIAL THAT PRIOR TO COMMENCEMENT OF CONSTRUCTION AN ADEQUATE SAFETY PLAN IS PREPARED BY THE BUILDER / CONTRACTOR FOR THE WORKS IN COMPLIANCE WITH STATUTORY REQUIREMENTS. THE SAFETY PLAN SHALL INCLUDE APPROPRIATE WORK METHOD STATEMENTS FOR ALL RISK ACTIVITIES. THE STRUCTURAL ENGINEER IS AVAILABLE TO BE CONSULTED IN REGARDS TO THE SAFETY PLANS.
5. PRIOR TO ANY ERECTION OF STRUCTURAL ELEMENTS THE CONTRACTOR SHALL HAVE COMPLETED A RISK ASSESSMENT OF ALL CONSTRUCTION PROCEDURES AND ENSURED THAT WHERE POSSIBLE, ALL RISKS HAVE BEEN ELIMINATED AND WHERE NOT POSSIBLE THEIR SAFETY PLAN HAS ADDRESSED THOSE ISSUES AND IT HAS BEEN FORMULATED AND DOCUMENTED FOR STRICT ADHERENCE DURING THE CONSTRUCTION WORKS.
6. PRIOR TO FABRICATION OF STEELWORK THE CONTRACTOR SHALL AGREE WITH THE ENGINEER ON AREAS OF RISK WHICH HAVE BEEN ADDRESSED BY THE DESIGN WHERE POSSIBLE AND AGREE ON SUITABLE CONSTRUCTION PROCEDURES WHERE AREAS OF RISK STILL EXIST.
7. PRIOR TO THE USE OF THE PROJECT AS DESIGNED, THE OWNER SHALL HAVE COMPLETED A RISK ASSESSMENT OF ALL WORK PRACTICES AND ENSURED THAT WHERE POSSIBLE ALL RISKS HAVE BEEN ELIMINATED AND WHERE NOT POSSIBLE THEIR SAFETY PLAN HAS ADDRESSED THOSE ISSUES AND IT HAS BEEN FORMULATED AND DOCUMENTED FOR STRICT ADHERENCE AFTER COMMISSIONING.

EARTHWORKS NOTES:

1. THE EARTHWORKS DRAWINGS AND THESE NOTES ARE TO BE READ IN CONJUNCTION WITH THE EARTHWORKS SPECIFICATION.
2. A SOILS INVESTIGATION OF THE SITE HAS BEEN CARRIED OUT BY PACIFIC GEOTECH PTY LTD (PG-1697, 2019-10-09, LTR VER 1) AND A COPY OF THIS REPORT IS AVAILABLE FOR VIEWING AT THE ENGINEERS OFFICE.
3. THE CONTRACTOR SHALL ALLOW TO ENGAGE AN APPROVED GEOTECHNICAL CONSULTANT TO CARRY OUT ALL INSPECTIONS, TESTING AND CERTIFICATIONS IN ACCORDANCE WITH THE EARTHWORKS SPECIFICATION.BELOW PROPOSED PAVEMENT SUBGRADE LEVEL AND 300mm BELOW FINISHED LEVEL IN ALL OTHER AREAS AND REFILL AS NOTED BELOW. DISPOSE OF ALL SUCH MATERIAL OFF SITE.
4. PRIOR TO COMMENCEMENT OF WORKS THE CONTRACTOR IS TO IDENTIFY AND BE SATISFIED OF THE CORRECT LOCATIONS OF ALL EXISTING SERVICES WHETHER INDICATED OR NOT ON THE PLANS. ANY DAMAGE TO EXISTING SERVICES IS TO BE RECTIFIED AS SOON AS POSSIBLE AT THE CONTRACTORS EXPENSE.
5. CARRY OUT ALL EARTHWORKS IN ACCORDANCE WITH THE EARTHWORKS SPECIFICATION.
6. ALL EXCAVATED BATTERS AND FILL EMBANKMENTS ARE TO BE INSPECTED AND APPROVED BY THE GEOTECHNICAL ENGINEER.
7. REFER TO STRUCTURAL DRAWINGS FOR DETAILED EXCAVATION.
8. REFER ALSO ARCHITECT, LANDSCAPE ARCHITECT AND HYDRAULICS ENGINEER FOR ADDITIONAL WORKS AND REQUIREMENTS.
9. PRIOR TO COMMENCEMENT OF WORK CONFIRM ALL BULK EXCAVATION LEVELS WITH THE ARCHITECT.

FOOTING NOTES:

1. THE BUILDER SHALL ALLOW TO ENGAGE AN APPROVED GEOTECHNICAL ENGINEER IN ACCORDANCE WITH THE EARTHWORKS AND OR THE BORED PIER SECTIONS OF THE SPECIFICATIONS TO CARRY OUT ALL INSPECTIONS AND TESTING TO CERTIFY THAT THE FOUNDING MATERIAL FOR HIGH LEVEL FOOTINGS AND OR THE CAPACITY OF BORED PIERS COMPLIES WITH THAT NOMINATED IN THE DOCUMENTATION. THE CERTIFICATION IS TO BE SIGNED BY A REGISTERED PROFESSIONAL ENGINEER OF QUEENSLAND.
2. AN ALLOWABLE BEARING PRESSURE FOR HIGH LEVEL FOOTINGS OF 50 kPa HAS BEEN ASSUMED IN THE DESIGN OF THE FOOTINGS.
3. WHERE REQUIRED FOUNDING MATERIAL IS DEEPER THAN THE UNDERSIDE OF THE HIGH LEVEL FOOTINGS AS DETAILED ALLOW TO BACKFILL ADDITIONAL EXCAVATION WITH N20 CONCRETE.
4. WHERE EXCAVATION WORK IS TO BE CARRIED OUT ADJACENT TO EXISTING FOOTINGS THE EXACT LEVEL OF THE UNDERSIDE OF THE FOOTINGS SHALL BE DETERMINED BY TEST PITS PRIOR TO EXCAVATION. UNDERPINNING SHALL BE CARRIED OUT AS DETAILED OR REQUIRED BY THE STRUCTURAL ENGINEER.
5. ALL FOOTING EXCAVATIONS SHALL BE FORMED AS NECESSARY WHEN EXCAVATED FACE IS NOT STABLE, DEWATERED AND CLEANED OF LOOSE AND SOFT MATERIAL PRIOR TO PLACING CONCRETE.
6. ALL WALLS AND COLUMNS SHALL BE CONCENTRIC WITH SUPPORTING FOOTINGS UNLESS NOTED OTHERWISE ON THE DRAWINGS.

SCREW PILING NOTES:

1. ALL SCREW PILING IS TO BE IN ACCORDANCE WITH THE SCREW PILING SPECIFICATION AND DETAILS AS SET OUT IN THE DOCUMENTATION.
2. SCREW PILES SHALL BE DESIGNED TO SUPPORT THE WORKING LOADS NOMINATED ON THE PILING LAYOUT PLAN AT A MIMIMUM ECCENTRICITY OF 50mm.
3. THE SCREW PILING CONTRACTOR IS TO SUBMIT THE FOLLOWING DETAILS TO THE ENGINEER FOR APPROVAL PRIOR TO COMMENCEMENT OF CONSTRUCTION :-
   - PROPOSED PILE TYPE/SIZE.
   - METHOD OF CONSTRUCTION.
   - DETAILS OF PROPOSED SPLICES AND CONNECTION OF THE SCREW PILE TO THE FOUNDATIONS
   - CALCULATIONS SUBSTANTIATING PILE LOAD CAPACITIES AND MINIMUM FOUNDING DEPTH.
   - PROPOSED TESTING METHODS TO PROVE SCREW PILE CAPACITIES IN ACCORDANCE WITH AS2159 PILING CODE AND THE SPECIFICATION.
   - ENGINEERING DESIGN CERTIFICATION SIGNED BY A REGISTERED PROFESSIONAL ENGINEER OF QLD OR RPEQ.
4. SCREW PILES SHALL BE DESIGNED FOR DURABILITY IN ACCORDANCE WITH AS2159 TAKING INTO ACCOUNT THE AGGRESSIVENESS OF THE GROUND AND THE ENVIRONMENTAL CONDITIONS.
5. SCREW PILES SHALL BE ANCHORED INTO THE FOUNDATIONS SO THAT THE DESIGN LOADS AND BENDING MOMENTS CAN BE SAFELY TRANSFERRED INTO THE PILES. THE CONNECTION OF THE SCREW PILES TO THE FOOTINGS IS THE RESPONSIBILITY OF THE SCREW PILING CONTRACTOR.
6. PRIOR TO COMMENCEMENT OF ANY SCREW PILING WORKS, THE BUILDER SHALL LOCATE ALL NEW AND EXISTING SERVICES RELATIVE TO THE PROPOSED SCREW PILE LOCATIONS. REFER TO THE RELEVANT AUTHORITY FOR MINIMUM CLEARANCE REQUIREMENTS. THE ENGINEER IS TO BE NOTIFIED OF ANY POTENTIAL CLASHES.
7. PILING CONTRACTOR IS TO MINIMISE ANY NOISE AND VIBRATION DUE TO PIER INSTALLATION ADJACENT TO EXISTING BUILDINGS AND SERVICES. REFER PILING SPECIFICATION FOR REQUIREMENTS.
8. THE SCREW PILING CONTACTOR SHALL TRIM ALL SCREW PILES TO SUIT THE LEVEL OF THE FOUNDATIONS SHOWN ON THE ENGINEER'S DRAWINGS.
9. THE SCREW PILING CONTRACTOR SHALL ALLOW TO ENGAGE A LICENCED SURVEROR TO UNDERTAKE A SURVEY OF THE "AS-CONSTRUCTED" SCREW PILE LOCATIONS AT PILE CUT-OFF LEVEL AND PROVIDE THE RESULTS TO THE ENGINEER PRIOR TO THE COMMENCEMENT OF FURTHER WORK.
10. AT THE COMPLETION OF THE PILING WORKS, THE PILING CONTRACTOR SHALL SUBMIT TO THE ENGINEER ALL PILING RECORDS REQUIRED BY SECTION 7 OF A2159 PILING CODE, INCLUDING SCREW PILE TORQUE FOR EACH PILE.

CONCRETE:

1. ALL MATERIALS AND WORKMANSHIP SHALL CONFORM WITH CURRENT EDITIONS OF AS 1379, AS 3600 AND AS3610 EXCEPT WHERE VARIED BY THE CONTRACT DOCUMENTS. REFER ALSO TO INSITU CONCRETE, FORMWORK AND REINFORCEMENT SECTION OF THE SPECIFICATIONS.
2. CONCRETE STRENGTH GRADE FOR PARTICULAR ELEMENTS SHALL BE AS NOTED ON THE DRAWINGS.
3. PROJECT ASSESSMENT OF STRENGTH IN ACCORDANCE WITH AS 1379 SHALL BE ADOPTED FOR SAMPLING AND TESTING. REFER TO SPECIFICATION FOR FREQUENCY OF TESTS.
4. SIZE OF ELEMENTS IS EXCLUSIVE OF APPLIED FINISHES. BEAMS DEPTHS INCLUDE SLAB THICKNESS AND ARE THE FIRST DIMENSION SPECIFIED, FOLLOWED BY WIDTH. UNLESS NOTED OTHERWISE ALL FORMED EDGES AND CORNERS OF CONCRETE MEMBERS SHALL HAVE 20mm CHAMFERS.
5. CONSTRUCTION JOINTS SHALL BE MADE ONLY AT APPROVED LOCATIONS, AND, IN BEAMS AND SLABS SHALL BE CONSTRUCTED WITH A SHEAR KEY TO ENGINEER'S DETAIL U.N.O. SURFACES OF CONCRETE AT ALL JOINTS SHALL BE THOROUGHLY MECHANICALLY SCABBLED, FULLY EXPOSING THE AGGREGATE MIX, UNLESS OTHERWISE NOTED.
6. ALL REINFORCEMENT SHALL BE TO AS/NZS 4671 AND REINFORCEMENT GRADE IS DESIGNATED AS FOLLOWS:-
   R: PLAIN ROUND BAR, GRADE 250
   N: DEFORMED BAR, GRADE 500
   SL/RL: WIRE REINFORCING FABRIC, GRADE 500
7. REINFORCEMENT SHALL BE BENT COLD IN ACCORDANCE WITH AS3600 EXCEPT WHERE APPROVED BY THE STRUCTURAL ENGINEER. NO REBENDING SHALL BE PERMITTED.
8. DO NOT CUT REINFORCEMENT ON SITE TO CLEAR PENETRATIONS. DISPLACE REINFORCEMENT SLIGHTLY AS NECESSARY TO CLEAR BLOCKOUTS.
9. CONCRETE COVER AND LAPS TO REINFORCEMENT SHALL BE AS NOTED ON THE DRAWINGS.
10. SLABS AND BEAMS SHALL BEAR ONLY ON LOAD BEARING ELEMENTS SHOWN ON THE PLANS. ALL OTHER NON LOAD BEARING ELEMENTS INCLUDING WINDOW MULLIONS, NON LOAD BEARING WALLS ETC. SHALL BE KEPT 20mm CLEAR FROM SOFFIT OF STRUCTURE.
11. MASONRY WALLS SHALL NOT BE ERECTED ON SUSPENDED SLABS AND BEAMS UNTIL ALL PROPPING HAS BEEN REMOVED U.N.O.
12. APPLY EVAPORATION RETARDER AND CURE ALL CONCRETE IN ACCORDANCE WITH THE CONCRETE SPECIFICATIONS
13. FORMWORK SHALL REMAIN UNDISTURBED FOR THE MINIMUM STRIPPING TIMES SPECIFIED IN AS3610, UNLESS OTHERWISE APPROVED

1	ISSUED FOR TENDER		14-08-20	
	Revisions/Descriptions	Certification	Date	Microfiled

CAD FILES | BIM 360://7905-29 SMBI Ferry Terminal Designs/46700408 – SMBI – Karragarra Island – S – LandStruct.rvt

Last Modified :- 17/09/2020 6:15:38 PM

Associated Job Nos

Auxiliary Drg Nos

Survey Data
Datum: GDA94
Horiz. Grid: MGA Z56
Height Origin:
Survey Books:

Scales
Dimensions shown in millimetres except where shown otherwise

SOUTHERN MORETON BAY
SOUTHERN MORETON BAY ISLANDS
KARRAGARRA ISLAND

FERRY TERMINALS DESIGN

Drawn	FS
Checked	JB
Designed	JT
Design Review	DF
Date	14-08-2020

STRUCTURAL
LANDSIDE SHELTERS
GENERAL NOTES SHEET 1

ENGINEERING CERTIFICATION (RPEQ)

ENG. AREA	NAME	SIGNATURE	NO.	DATE

Queensland Government

File No.	467/00408
Contract. No.	CN-12653
Drawing No.	4002 | 1
Project No.	TMR29-130
MRM_Detail (05/14)	BN-70-1

ISSUE FOR TENDER

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CONCRETE SHRINKAGE CRACKING:

THE STRUCTURAL ENGINEER IS TO BE NOTIFIED BY THE CLIENT, ARCHITECT OR BUILDER OF ANY SPECIAL SHRINKAGE CRACK PERFORMANCE REQUIREMENTS PRIOR TO THE CONSTRUCTION OF THE SLAB ON GROUND.

TO REDUCE THE LIKELIHOOD OF DRYING SHRINKAGE CRACKS FORMING IN CONCRETE SLABS ON GROUND, THE FOLLOWING GUIDELINES SHALL BE FOLLOWED;

1. ALL SLABS ON GROUND ARE TO BE CAST ON A 0.2mm (MIN) POLYTHENE SHEET OVER A SMOOTH SUBGRADE.
2. DO NOT ADD WATER TO THE CONCRETE MIX AFTER THE CONCRETE HAS LEFT THE PLANT UNLESS APPROVED BY THE CONCRETE MIX DESIGNER / SUPPLIER.
3. PLACE THE CONCRETE AS SOON AS POSSIBLE AFTER THE CONCRETE HAS BEEN BATCHED, BUT MUST NOT EXCEED 1 HOUR.
4. VIBRATE THE CONCRETE DURING PLACEMENT TO GIVE MAXIUM COMPACTION WITHOUT SEGREGATION. COMPACT THE CONCRETE PARTICULARLY AT SLAB EDGES, SLAB CORNERS AND AROUND ALL PENETRATIONS.
5. CLOSE ANY EARLY CRACKING IN THE SLAB BY RE-COMPACTING THE CONCRETE OR RE-TROWELLING THE SURFACE.
6. DO NOT PLACE CONCRETE UNDER THE FOLLOWING CONDITIONS.
   a. WHEN THE CONCRETE TEMPERATURE AT THE POINT OF DELIVERY EXCEEDS 35°C
   b. WHEN THE SURROUNDING TEMPERATURE EXCEEDS 38°C.
   c. WHEN THE SURROUNDING WIND SPEED EXCEEDS 10 KNOTS OR 20 km/hr
7. IMPLEMENT THE FOLLOWING PROCEDURES TO MITIGATE PREMATURE DRYING AND CRACKING OF THE CONCRETE.
   a. IN PREDICTED HOT CONDITIONS, PROGRAM THE CONCRETE PLACEMENT FOR THE COOLER PART OF THE DAY (e.g. EARLY MORNING).
   b. SPRAY EVAPORATIVE RETARDERS (e.g. ALIPHATIC ALCOHOL) OVER THE SURFACE IMMEDIATELY AFTER SCREEDING & WHILST BLEED WATER IS STILL PRESENT. RE-APPLY IF THE SURFACE IS LATER DISTURBED.
   c. ONCE THE SLAB IS FINISHED, COMMENCE CURING IMMEDIATELY. THE SLAB SHALL BE CURED FOR A MINIMUM OF 7 DAYS BY WATER PONDING, PLACEMENT OF IMPERVIOUS SHEETS OVER THE SLAB OR THE APPLICATION OF A CURING COMPOUND COMPLIANT WITH AS3799 AND APPLIED IN ACCORDANCE WITH THE MANUFACTURER'S SPECIFICATIONS.
8. ALL SHRINKAGE CRACKS GREATER THAN 0.2mm CRACK WIDTH ARE TO BE FILLED USING AN EPOXY GROUT INJECTED SYSTEM IN CONJUNCTION WITH PARCHEM NITOFILL LV OR APPROVED EQUIVALENT.

ANCHOR TESTING:

1. THE CONTRACTOR SHALL ALLOW FOR ALL COSTS ASSOCIATED WITH TESTING CHEMICAL AND MECHANICAL ANCHORS TO THE REQUIREMENTS AS FOLLOWS :-
2. TENSILE LOAD TESTS TO BE 100% OF THE TEST LOAD IN TENSION AS NOMINATED BELOW.
3. TESTS ARE TO BE CARRIED OUT BY A N.A.T.A. REGISTERED LABORATORY AND TEST CERTIFICATES ARE TO BE FORWARDED TO THE ENGINEER FOR REVIEW.
4. TEST PROCEDURE FOR ANCHORS
   4.1 A MINIMUM OF 10% OF THE TOTAL NUMBER OR 5 (WHICH EVER IS GREATER) FOR BOTH CHEMICAL AND MECHANICAL ANCHORS ARE TO BE TESTED.
   4.2 SHOULD AN ANCHOR FAIL THEN A FURTHER 10% ARE TO BE TESTED.
   4.3 SHOULD A FURTHER ANCHOR FAIL ALL ANCHORS ARE TO BE TESTED.
   4.5 ALL ADDITIONAL TESTING AT CONTRACTORS EXPENSE.
   4.5 ALL FAILED ANCHORS TO BE REMOVED AND REINSTALLED IN ACCORDANCE WITH THE MANUFACTURERS SPECIFICATION. ALL REINSTALLED ANCHORS TO BE TESTED.
   ALL FAILED ANCHORS TO BE REMOVED AND REINSTALLED IN ACCORDANCE WITH THE MANUFACTURERS SPECIFICATION. ALL REINSTALLED ANCHORS TO BE TESTED.
5. ALL CHEMICAL ADHESIVE ANCHORS ARE TO BE INSTALLED USING RAMSET CHEMSET INJECTION 801 WITH GALVANISED GRADE 5.8 CHEMSET ANCHOR STUDS OR APPROVED EQUIVALENT.

ANCHOR SIZE	DRILLED HOLE DIAMETER	EMBEDMENT DEPTH U.N.O.	TEST LOAD
M12	14	110mm	20kN
M16	18	125mm	30kN
M20	24	150mm	45kN

STRUCTURAL STEEL:

1. ALL MATERIALS AND WORKMANSHIP SHALL CONFORM WITH CURRENT EDITIONS OF AS4100, AS/NZS 1554 - 1 AND 2 AND AS4600 EXCEPT WHERE VARIED BY THE CONTRACT DOCUMENTS. REFER ALSO TO THE STRUCTURAL STEELWORK SECTION OF THE SPECIFICATIONS.
2. ALL STEEL SHALL COMPLY WITH THE FOLLOWING U.N.O. :-
   WELDED SECTION - GRADE 300 TO AS/NZS 3678.2
   ROLLED SECTION - GRADE 300 TO AS/NZS 3679.2
   SHS AND RHS - GRADE 350/GRADE 450 TO AS 1163
   CHS - GRADE 250/GRADE 350 TO AS 1163
   FLAT PLATE - GRADE 300 TO AS/NZS 3679.2
   STANDARD PLATE - GRADE 250 TO AS/NZS 3678
3. REFER TO ARCHITECT FOR FIRE RATING REQUIREMENTS.
4. THE CONTRACTOR SHALL UNLESS SPECIFIED ELSEWHERE:
   (A) PROVIDE AND EMPLOY ANY ADDITIONAL TEMPORARY BRACING ETC. NECESSARY TO ADEQUATELY HOLD STEELWORK IN POSITION DURING CONSTRUCTION.
   (B) PROVIDE ALL PACKS, CLEATS, BOLTS (INCL. H.D. BOLTS) ETC. REQUIRED FOR TEMPORARY AND PERMANENT ERECTION OF STEELWORK AND FOR ATTACHMENT OF TIMBER AND MISCELLANEOUS FRAMING.
   (C) SUBMIT TWO (2) COPIES OF WORKSHOP DRAWINGS TO THE ENGINEER FOR PERUSAL. FABRICATION SHALL NOT COMMENCE WITHOUT A WRITTEN RESPONSE.
5. FOR THE SURFACE TREATMENT REQUIREMENTS OF ALL STRUCTURAL STEELWORK REFER TO THE STRUCTURAL STEEL SPECIFICATION. MINIMUM TREATMENT SHALL BE AS FOLLOWS U.N.O. :-
   (A) ALL STEELWORK SHALL BE HOT DIPPED GALVANISED TO ACHIEVE A MINIMUM COATING MASS OF 600g/m2 (HDG600) IN ACCORDANCE WITH AS/NZS 4680.
6. ALL STRUCTURAL STEELWORK BELOW GROUND LEVEL TO BE PAINTED WITH 2 COATS OF HIGH QUALITY APPROVED BITUMEN PAINT AND ENCASED BY N25 CONCRETE 75mm ALL ROUND U.N.O.
7. PROPRIETARY ITEMS (E.G. PURLINS, ROOF/WALL SHEETING, BOLTS ETC.) SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S SPECIFICATION. FOR LAPPED PURLINS/GIRTS USE M12 4.6/S PURLIN BOLTS AND FOR UNLAPPED PURLINS/GIRTS USE M12 4.6/S SHOULDERED PURLIN BOLTS. SHOULDERED PURLIN BOLT HEAD TO BE AGAINST COLD FORMED SECTION. ALL PURLIN/GIRT BOLTS SHALL HAVE INTEGRAL WASHERS.
8. MINIMUM WELDING REQUIREMENTS IF NOT OTHERWISE SPECIFIED SHALL BE AS FOLLOWS:-
   ALL WELDS CATEGORY S.P 6mm CONTINUOUS FILLET WELDS, OR WHERE NOTED, COMPLETE PENETRATION BUTT WELDS (C.P.B.W.) USING ELECTRODES WITH A MINIMUM WELD TENSILE STRENGTH OF 480 MPa WITH CATEGORY S.P. INSPECTION WITH ALL WELDS 100% VISUALLY SCANNED, ALL TO AS/NZS 1554.1 UNLESS NOTED OTHERWISE. ALL WELDING SHALL BE PERFORMED BY A QUALIFIED WELDER IN ACCORDANCE WITH AS/NZS 1554.1.
9. SITE WELDS WHERE NOTED IN THE DOCUMENTATION SHALL BE THOROUGHLY WIRE BRUSHED CLEANED AND PAINTED IN ACCORDANCE WITH THE SPECIFICATION.
10. THE ARCHITECT OR ENGINEER MAY ORDER NON-DESTRUCTIVE TESTING OF SELECTED WELDS. WELDS PROVED TO BE BELOW THE SPECIFIED QUALITY SHALL BE CUT OUT, REWELDED AND RE- TESTED AT CONTRACTOR'S EXPENSE.
11. ALL BOLTS, NUTS AND WASHERS, INCLUDING HOLD DOWN BOLTS, CAST-IN FERRULES, CAST-IN PLATES AND MASONRY ANCHORS ARE TO BE HOT DIP GALVANISED U.N.O. ALL GALVANISED COMPONENTS TO BE CAST INTO CONCRETE MUST BE PASSIVATED.
12. BOLT TYPES SHALL BE AS FOLLOWS:-
    * 4.6/S - COMMERCIAL BOLTS TO AS1111 AND AS1112, SNUG TIGHTENED
    * 8.8/S - HIGH STRENGTH STRUCTURAL BOLTS TO AS/NZS 1252, SNUG TIGHTENED ONLY.
13. ALL STRUCTURAL STEEL FIXING DETAILS ARE TO BE BASED ON AISC STANDARDIZED STRUCTURAL CONNECTIONS U.N.O
14. ALL PLATES TO BE FROM STANDARD SQUARE EDGE FLATS U.N.O
15. THE CONTACT SURFACES FOR HIGH STRENGTH FULLY TENSIONED BOLTED CONNECTIONS SHALL BE CLEAN "AS ROLLED" AND NOT PAINTED. FULLY TENSION BOLTS BY THE "PART TURN METHOD OF TIGHTENING", OR BY LOAD INDICATING WASHERS.
16. ROD BRACING MEMBERS SHALL BE SCREW FIXED OR SIMILARLY HUNG FROM PURLINS AT 3.0m MAXIMUM CENTRES.
17. ALL PURLINS, GIRTS AND BRIDGING SHALL BE EITHER LYSAGHT OR STRAMIT. PURLINS GIRTS AND BRIDGING BY OTHER MANUFACTURERS SHALL BE SUBMITTED FOR APPROVAL SUPPORTED BY SUBMISSION OF SECTION PROPERTIES, PURLIN CAPACITY CALCULATIONS AND BRIDGING CAPACITY CALCULATIONS PRODUCED AND DETAILED FOR THIS PROJECT. ALL SECTIONS SHALL BE PRODUCED FROM GALVANISED STEEL TO AS1397 AND DESIGNED IN ACCORDANCE WITH AS4600.
18. ALL HANGERS FOR SUPPORT OF SERVICES AND CEILINGS TO BE ATTACHED TO THE WEBS OF PURLINS.
19. EDGES OF ROOF SHEETING THAT ARE REQUIRED TO BE CUT TO SUIT CHANGES IN DIRECTION OF THE ROOF SHALL BE SUPPORTED BY TRIMMER PURLINS OF SAME TYPE AND SIZE AS THE MAIN ROOF PURLINS AND FIXED WITH 6 PLATE BRACKETS AND 2M12 4.6/S EACH LEG TYPICAL U.N.O. SIMILAR IS REQUIRED AT ALL ROOF PENETRATIONS TYPICAL U.N.O.

LIGHT GAUGE STEEL FRAMING:

1. ALL LIGHT GAUGE FRAMING TO BE MANUFACTURED BY RONDO BUILDING SERVICES OR AN ALTERNATIVE APPROVED MANUFACTURER.
2. ALL STUDS SHALL BE LIPPED WALL STUDS U.N.O.
3. WALL STUD TRACKS SHALL BE CONTINUOUS TOP AND BOTTOM OF ALL STUD WALLS AND AS FOLLOWS U.N.O. :-

STUD SIZE	WALL STUD TRACK	RONDO PART NO.
92	94.5 x 1.15mm	680

4. DEFLECTION HEAD TRACKS SHALL NOT BE USED U.N.O.
5. PROVIDE ONE ROW OF NOGGING TO ALL WALLS TYPICAL U.N.O.
6. ALL NOGGING TO HAVE MINIMUM THICKNESS OF 1.15mm BMT.
7. WALL STUDS OR BOXED WALL STUDS SHALL BE SINGLE LENGTH SECTIONS. SPLICES IN WALL STUDS SHALL NOT BE USED.
8. ALL TEK SCREWS TO BE MANUFACTURED BY ITW BUILDEX OR APPROVED EQUIVALENT. PREDRILLED HOLES TO BE NOT GREATER THAN 2mm IN DIAMETER LARGER THAN THE TEK SCREW GAUGE.
9. OVERALL DIMENSIONS OF FRAMES TO BE CHECKED AND VERIFIED BY A SITE MEASURE CARRIED OUT BY THE CONTRACTOR PRIOR TO FABRICATION OF FRAMES.

PURLIN NOTES:

1. ALL PURLINS, GIRTS AND BRIDGING SHALL BE EITHER LYSAGHT OR STRAMIT. PURLINS GIRTS AND BRIDGING BY OTHER MANUFACTURERS SHALL BE SUBMITTED FOR APPROVAL SUPPORTED BY SUBMISSION OF SECTION PROPERTIES, PURLIN CAPACITY CALCULATIONS AND BRIDGING CAPACITY CALCULATIONS PRODUCED AND DETAILED FOR THIS PROJECT.
2. ALL SECTIONS SHALL BE PRODUCED FROM GALVANISED STEEL TO AS1397 AND DESIGNED IN ACCORDANCE WITH AS4600.
3. INDUSTRIAL GALVANISE COATING (PERMAGAL) SHALL BE APPLIED TO ALL PURLINS AND ACCESSORIES AFTER MANUFACTURING TO ENSURE THAT THERE ARE NO EXPOSED OR UNTREATED SURFACES IN ACCORDANCE WITH AS4680
4. ALL SECTIONS SHOULD BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS, WITH PARTICULAR REGARD TO BOLT LOCATION.
5. GENERAL PURPOSE BRACKETS (GPB'S) & CLAMP TYPE CONNECTIONS SHALL NOT BE USED.
6. REFER TO STRUCTURAL STEEL SPECIFICATION FOR BOLTING OF PURLINS/GIRTS.
7. USE M12 4.6/S GALVANISED FASCIA PURLIN BOLTS FOR ALL BARGE & FASCIA PURLINS.
8. ALL WORK SHALL BE COMPLETED IN A WORKMANLIKE MANNER PRIOR TO INSTALLATION OF THE CLADDING MATERIAL.
9. PURLIN LAPS TO BE AS FOLLOWS:

SIZE	LAP
SZ100	600
SZ150	900
SZ200	900
SZ250	900
SZ300	900

10. THE NUMBER OF PURLINS SHOWN ON PLAN ARE INDICATIVE ONLY.
    THE ACTUAL NUMBER OF PURLINS SHALL BE DETERMINED BY THE SHOP DETAILER BASED ON THE SPECIFIED MAXIMUM PURLIN SPACING AND EXTENT SPECIFIED SHOWN ON PLAN.

1	ISSUED FOR TENDER		14-08-20	
	Revisions/Descriptions	Certification	Date	Microfiled

Associated Job Nos

Auxiliary Drg Nos

Survey Data: Datum GDA94; Horiz. Grid MGA Z56; Height Origin; Survey Books

Scales

Dimensions shown in millimetres except where shown otherwise

SOUTHERN MORETON BAY
SOUTHERN MORETON BAY ISLANDS
KARRAGARRA ISLAND

FERRY TERMINALS DESIGN

Drawn FS
Checked JB
Designed JT
Design Review DF
Date 14-08-2020

STRUCTURAL
LANDSIDE SHELTERS
GENERAL NOTES SHEET 2

ENGINEERING CERTIFICATION (RPEQ)

ENG. AREA	NAME	SIGNATURE	NO.	DATE

Queensland Government

File No. 467/00408
Contract. No. CN-12653
Drawing No. 4003 | 1
Project No. TMR29-130
MRM_Detail (05/14) BN-70-1

CAD FILES BIM 360://7905-29 SMBI Ferry Terminal Designs/46700408 – SMBI – Karragarra Island – S – LandStruct.rvt

Last Modified: - 17/09/2020 6:15:45 PM

ISSUE FOR TENDER

Cardno architectus

GENERAL

1. THESE GENERAL NOTES SHALL BE READ IN CONJUNCTION WITH THE TECHNICAL SPECIFICATION. IN THE EVENT OF ANY INCONSISTENCY, THE DRAWINGS SHALL TAKE PRECEDENCE.
2. ALL DIMENSIONS GIVEN ARE NOMINAL AND SHALL BE CONFIRMED BY THE CONTRACTOR ON SITE. THESE DRAWINGS ARE NOT TO BE SCALED.
3. SETTING OUT AND OFF-SITE FABRICATION DIMENSIONS SHALL BE VERIFIED BY THE CONTRACTOR, PRIOR TO COMMENCING WORKS.
4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ENSURING THAT THE STRUCTURE AND THE RELATED ELEMENTS ARE MAINTAINED IN A STABLE CONDITION AND ARE PREVENTED FROM BEING OVER STRESSED DURING CONSTRUCTION.
5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE DESIGN AND SAFETY OF TEMPORARY WORKS AND CHECKING PERMANENT STRUCTURES FOR THE CONSTRUCTION AND TEMPORARY LOADS.
6. THE CONTRACTOR SHALL SUBMIT A PROJECT HOLD POINT REGISTER AS PART OF THE PROJECT MANAGEMENT PLAN WHICH IS TO BE REVIEWED AND APPROVED BY THE SUPERINTENDENT.
7. AT THE COMPLETION OF CONSTRUCTION, THE CONTRACTOR IS RESPONSIBLE FOR PRODUCING AS BUILT DRAWINGS FOR DELIVERY TO THE SUPERINTENDENT.
8. AT THE COMPLETION OF THE CONSTRUCTION, THE CONTRACTOR IS REQUIRED TO UNDERTAKE A HYDROGRAPHIC SURVEY OF THE SITE TO BE PROVIDED TO THE SUPERINTENDENT.
9. ALL STATUTORY AUTHORITY SERVICES MUST BE MAINTAINED AND PROTECTED BY THE CONTRACTOR AT ALL TIMES. NO INFORMATION REGARDING EXISTING SERVICES IS PROVIDED BY CARDNO'S DESIGN DOCUMENTATION. THE CONTRACTOR IS TO PERFORM THEIR OWN INVESTIGATION OF STATUTORY AUTHORITY RECORDS AND/OR SITE PLANS. SERVICES SHALL BE LOCATED AND PROVEN ON SITE BY THE CONTRACTOR PRIOR TO THE COMMENCEMENT OF WORKS IN THEIR VICINITY.
10. CONTRACTOR SHALL PROVIDE STABLE SIDE SLOPE, BENCHING AND/OR SHORING AS REQUIRED FOR STABILISING SIDES OF EXCAVATIONS. THE CONTRACTOR IS RESPONSIBLE FOR THE CERTIFICATION OF ALL SUCH TEMPORARY WORKS.

DESIGN CRITERIA

1. WORKS HAVE BEEN DESIGNED IN ACCORDANCE WITH THE FOLLOWING STANDARDS:
   - AS 2159 PILING-DESIGN AND INSTALLATION
   - AS 1657 FIXED PLATFORMS, WALKWAYS, STAIRWAYS LADDERS - DESIGN, CONSTRUCTION AND INSTALLATION
   - AS 1428 DESIGN FOR ACCESS AND MOBILITY
   - AS 4997 MARITIME STRUCTURES
   - AS 3600: 2009 CONCRETE STRUCTURES
   - AS 4100 STEEL STRUCTURES
   - AS 1554 STRUCTURAL STEEL WELDING
   - BS 6349 (SET) MARITIME STRUCTURES
   - AS 1170 (SET) STRUCTURAL DESIGN ACTIONS
   - AS 2758.1: 2014 AGGREGATES AND ROCK FOR ENGINEERING PURPOSES
   - AS 2312 GUIDE TO PROTECTION OF STRUCTURAL STEEL AGAINST ATMOSPHERIC CORROSION BY THE USE OF PROTECTIVE COATINGS
   - AS 1720 TIMBER STRUCTURES
2. DESIGN LIFE:

STRUCTURE	DESIGN LIFE (YEARS)
JETTY (INCLUDING TUBULAR PILING)	50
JETTY STEEL CANOPY FRAME	50
PONTOON	50
GANGWAY	50
FENDERS, LADDERS AND MOORING CLEATS	15
FENDER FIXING	15

DESIGN VESSELS

VESSEL	MAXIMUM DISPLACEMENT (t)	LENGTH (m)	BEAM (m)	DRAFT (m)
PERULPA (PASSENGER FERRY)	41.94	22.264	6.243	0.75
JUMPINPIN (PASSENGER FERRY)	41.32	22.264	6.243	0.75
KURROWERA 1 (PASSENGER FERRY)	46.54	25.35	6.25	1.106
A. L. ROBB (PASSENGER FERRY)	41.87	25.35	6.25	1.102
WATER BUS-KALAMARU (AMBULANCE VESSEL)	28.89	20.80	6.38	0.868
KITTY KAT (AMBULANCE VESSEL)	16.06	12.47	5.70	1.08

- PONTOON
THE DESIGN APPROACH VELOCITY IS 0.3m/s PERPENDICULAR TO THE BERTHING FACE, CONSIDERING THIRD-BERTHING POINT.
DESIGN NORMAL BERTHING ENERGY = 3.23 kNm
DESIGN ABNORMAL BERTHING ENERGY = 6.47 kNm

- FENDER PILES
THE DESIGN APPROACH VELOCITY IS 2.31m/s PERPENDICULAR TO THE BERTHING FACE, CONSIDERING END BERTHING POINT
DESIGN BERTHING ENERGY = 137.16 kNm

VERTICAL LOADING

LOAD		LIMIT
PEDESTRIAN CROWD LOAD	UNIFORMLY DISTRIBUTED LOAD	5 kPa
MOTOR VEHICLE	SINGLE AXLE LIMIT	3 t

ENVIRONMENTAL LOADS

1. ROOF WIND LOADING
   - 500 YR ARI WIND SPEED (3 SECOND GUST): 57 m/s
   - 25 YR ARI WIND SPEED (3 SECOND GUST): 39 m/s
   - 200 YR ARI WIND SPEED (30 SECOND GUST): 38 m/s
   - 200 YR ARI WIND SPEED (3 SECOND GUST): 52 m/s
   - 200 YR ARI CURRENT SPEED: 1.5 m/s
   - 200 YR ARI Hs (PRESENT DAY CYCLONIC CONDITION): 1.12 m
   - 200 YR ARI Hs (2069 CYCLONIC CONDITION): 1.3 m
   - SEA LEVEL RISE 0.5 m

DIMENSION LEVELS

1. ALL DIMENSIONS ARE IN MILLIMETRES UNLESS OTHERWISE STATED
2. REDUCED LEVELS AND CHAINAGES ARE IN METRES. ALL LEVELS ARE TO AUSTRALIAN HEIGHT DATUM (AHD) UNO.

DEMOLITION

1. ALL DEMOLITION SHALL BE IN ACCORDANCE WITH AS2601.
2. THE CONTRACTOR IS TO PROVIDE ADEQUATE TEMPORARY SUPPORT TO ADJACENT STRUCTURES WHERE REQUIRED.
3. THE CONTRACTOR SHALL PROVIDE ALL ADEQUATE TEMPORARY SUPPORT AND TIE DOWNS AS THEY DEEM NECESSARY TO SAFELY SUPPORT THE EXISTING STRUCTURE AND PORTIONS OF THE EXISTING STRUCTURE DURING DEMOLITION.
4. THE CONTRACTOR SHALL PROVIDE ALL MATERIAL NECESSARY FOR TEMPORARY PROPPING AND SUPPORT.
5. THE CONTRACTOR SHALL TAKE ALL THE NECESSARY STEPS TO ENSURE THAT THE EXISTING JETTY STRUCTURE, UTILITY SERVICES AND DECK FURNITURE ARE NOT DAMAGED BY DEMOLITION WORKS.

DEMOLITION (CONT.)

6. THE CONTRACTOR IS TO REMOVE AND DISPOSE ALL DEMOLITION MATERIALS OFF SITE IN A LEGAL MANNER, INCLUDING EXCESS SITE FILL. HOWEVER THE CONTRACTOR IS TO NOTE THE ADDITIONAL CONDITIONS STATED IN THE TECHNICAL SPECIFICATION CONCERNING THE RETENTION OF CERTAIN MATERIALS.
7. CONTRACTOR TO INSPECT SITE PRIOR TO TENDER SUBMISSION AND INCLUDE ALL NECESSARY ALLOWANCES FOR DEMOLITION.

PILING

1. ALL PILES SHALL BE GRADE 350MPA OR BETTER.
2. ALL WORKMANSHIP AND MATERIALS SHALL BE IN ACCORDANCE WITH AS2159 AND THE SPECIFICATION.
3. ALL PILES SHALL BE DRIVEN TO THE LINES, LEVELS, AND DIMENSIONS SPECIFIED ON THE CONSTRUCTION DRAWINGS.
4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE CHOICE OF SUITABLE CONSTRUCTION PLANT AND TEMPORARY WORKS TO ACHIEVE THE MINIMUM LEVELS SPECIFIED. EQUIPMENT SHALL BE SUFFICIENTLY ROBUST, HEAVY AND POWERFUL TO DRIVE THE PILES TO THE LEVELS SPECIFIED.
5. THE CONTRACTOR SHALL ENSURE ALL PILES ARE HANDLED IN A SAFE MANNER THAT WILL PREVENT DAMAGE TO THE PILES/SHEET PILES AND/OR EXISTING SERVICES AND ASSETS.
6. THE TOP OF THE STEEL PILES TO BE CAST INTO CONCRETE SHALL BE CLEAN AND FREE OF LOOSE RUST, MILLSCALE, EARTH, OIL AND GREASE.
7. AS PART OF THE CONTRACTOR'S ASSESSMENT OF GEOTECHNICAL INFORMATION, THE CONTRACTOR SHALL REFER TO THE "GEOTECHNICAL REPORT: PROPOSED JETTIES LAMB ISLAND, MACLEAY ISLAND, KARRAGARRA ISLAND AND RUSSELL ISLAND, MORETON BAY 77TREDLAND CITY COUNCIL, REPORT NO. PG-1697" BY PACIFIC GEOTECH, DATED JULY 2018.
8. PRIOR TO TENDER SUBMISSION, THE CONTRACTOR SHALL VISIT THE SITE AND SATISFY HIMSELF TO THE ACCESS REQUIREMENTS AND TEMPORARY WORKS REQUIRED TO SATISFY THEIR CONSTRUCTION METHODS.
9. PILES ARE TO BE INSTALLED BY AN EXPERIENCED SPECIALIST PILING CONTRACTOR. THE NAME AND DETAILS OF THE PROPOSED SPECIALIST PILING CONTRACTOR SHALL BE SUBMITTED AS PART OF THE TENDER.
10. THE CONTRACTOR'S RESPONSIBILITIES INCLUDE BUT ARE NOT LIMITED TO:
    - TEMPORARY WORKS AND CONSTRUCTION METHODS TO ACHIEVE PILE EMBEDMENT REQUIREMENTS.
    - ASSESSING THE IMPACTS OF THEIR CONSTRUCTION METHODS ON PILE PERFORMANCE, INCLUDING ANY RELEVANT TEMPORARY OR CONSTRUCTION LOADS.
    - DEALING WITH OBSTRUCTIONS IF ENCOUNTERED.
11. GROUND CONDITIONS CAN BE EXPECTED TO VARY. DUE ALLOWANCE SHALL BE MADE BY THE CONTRACTOR FOR CHANGES IN PILE LENGTH.
12. PREDRILLING IS NOT ACCEPTABLE. IF IT IS REQUIRED, DESIGNER SHALL BE NOTIFIED AND AMENDMENT IN PILE LENGTH BE OBTAINED.
13. IT IS THE CONTRACTORS RESPONSIBILITY TO DESIGN A PILE SHOE (IF IN THE OPINION OF THE CONTRACTOR IT IS REQUIRED FOR DRIVING THE PILES). THE PILE SHOE SHALL BE FLUSHED WITH OUTSIDE DIAMETER.
14. PILES SHALL BE PDA/CAPWAP TESTED TO VERIFY THEIR STRUCTURAL INTEGRITY AND CAPACITY. A MINIMUM OF 10% OF PILES ARE TO BE PDA TESTED. ALL PILES ARE TO BE PDM TESTED. BASED ON TESTING REGIME STIPULATED, A GEOTECHNICAL STRENGTH REDUCTION FACTOR OF 0.6 HAS BEEN ADOPTED FOR COMPRESSION AND TENSION.
15. PRIOR TO CONSTRUCTION, IT IS THE RESPONSIBILITY OF THE PILING CONTRACTOR TO UNDERTAKE DRIVEABILITY ASSESSMENTS BASED ON PROPOSED HAMMER AND DRIVING SYSTEM TO BE USED ON SITE AND CONSIDERING OTHER FACTORS SUCH AS PILE SPLICES, DRIVING INTERRUPTIONS, ETC. THIS IS TO ENSURE THAT THE PROPOSED PILE TERMINATION DEPTHS CAN BE ACHIEVED WITHOUT DAMAGING THE PILES WITH THE EQUIPMENT PROPOSED TO BE USED ON SITE.
16. PILE STRESSES DURING DRIVING SHALL NOT EXCEED 80% OF THE YIELD STRENGTH OF THE PILE SECTIONS.
17. PILE DRIVING RECORDS SHALL BE SUPPLIED TO THE ADMINISTRATOR ON A DAILY BASIS. THE ADMINISTRATOR SHALL REVIEW PILING DRIVING RECORDS AND PDA/CAPWAP RESULTS FOR ALL NOMINATED PILES AND CONFIRM PILE INTEGRITY AS PER THE REQUIREMENTS IN THE PROJECT TECHNICAL SPECIFICATIONS.
18. ALL PONTOON PILES SHALL HAVE A CAPPING PLATE WELDED AT TOPS TO PROVIDE A SEAL TO PREVENT AIR FROM ENTERING PILE INTERNALS.
19. ALL PONTOON PILES SHALL BE FITTED WITH A POLYTHYLENE PILE CAP IN ACCORDANCE WITH MANUFACTURERS REQUIREMENTS.
20. PROTECTIVE COATING TO BE APPLIED TO ALL PONTOON PILES IN ACCORDANCE WITH PROJECT TECHNICAL SPECIFICATIONS.

PILING (CONT.)

21. ALL PILES TO BE WRAPPED WITH DENSO SEASHIELD 100 SERIES (OR APPROVED EQUIVALENT) TO BE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS. THE WRAPPING IS TO EXTEND FROM THE TOP OF PILE TO THE HIGHER OF:
    - 1M BELOW LAT OR;
    - 500MM BELOW THE SEABED
22. A PILE INSTALLATION TOLERANCE OF 75MM IN PLAN HAS BEEN ALLOWED FOR IN THE DESIGN. WHERE PILE INSTALLATION EXCEEDS THIS TOLERANCE, THE PILE IS TO BE FULLY EXTRACTED.

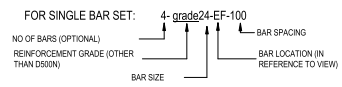
BOLTS/SCREWS

1. ALL BOLTS TO BE USED FOR STRUCTURAL STEEL WORK SHALL BE GALVANIZED GRADE 8.8 HIGH TENSILE BOLTS UNLESS NOTED OTHERWISE.
2. USE A NICKEL BASE LUBRICANT OR NICKEL IMPREGNATED TAPE ON THE THREADS OF ALL BOLTS BEFORE ASSEMBLY.
3. ALL STAINLESS STEEL FASTENERS SHALL BE FITTED WITH A STAINLESS STEEL 'NYLOC' NUT AND LOCK NUT AND STAINLESS STEEL WASHER UNDER NUT.
4. ALL DISSIMILAR METALS MUST BE ISOLATED WITH NYLON, HDPE, UHMW-PE, MEOPRENE OR OTHER APPROVED INERT MATERIAL.
5. ALL SCREWS SHALL BE APPROPRIATE FOR THE ASSOCIATED STRUCTURAL MEMBER TO MINIMIZE THE RISK OF GALVANIC CORROSION. WHERE DISSIMILAR METALS ARE USED NOTE 4 SHALL BE STRICTLY ADHERED TO.

REINFORCEMENT

1. SL, L - DENOTES GRADE D500L WIRE MESH TO AS/NZS 4671
   N - DENOTES GRADE D500N HOT ROLLED DEFORMED BARS TO AS/NZS 4671
   R - DENOTES GRADE R250N HOT ROLLED PLAIN BARS TO AS/NZS 4671
2. WELDING OF REINFORCEMENT SHALL NOT BE PERMITTED UNLESS SHOWN ON THE STRUCTURAL DRAWINGS. THESE WELDS SHALL DEVELOP THE FULL STRENGTH OF THE REINFORCING ELEMENT.
3. BARS SHALL BE NOTED AS BELOW IN EITHER FORMAT UNO.

   REINFORCEMENT DESIGNATION ON THE DRAWINGS IS AS FOLLOWS:



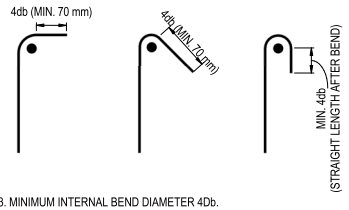
4. REINFORCEMENT SPACING NOT SHOWN SHALL BE TAKEN AS EQUAL
5. REINFORCING BARS SHOWN ON THESE DRAWINGS ARE DIAGRAMMATIC ONLY.
6. BARS SHOWN MAY REPRESENT MORE THAN ONE LENGTH AND/OR PROFILE.
7. BARS MAY NOT BE SHOWN IN TRUE POSITION FOR CLARITY.
8. ALL HOOKS, BENDS AND COGS ARE STANDARD AND SHALL BE IN ACCORDANCE WITH AUSTRALIAN STANDARD AS3600.
9. LAP SPLICES TO ALTERNATE AND NO MORE THAN 50% OF SPLICES SHALL BE IN ANY ONE SECTION.
10. LAP LENGTHS SHALL BE AS TABULATED BELOW UNLESS SHOWN OTHERWISE ON THE DRAWINGS.

BAR DIAMETER	MIN. LAP LENGTH
12	600
16	800
20	1000
24	1350
28	2010
32	2400

NOTE: (THE MINIMUM LAP LENGTH SHOWN SHALL BE INCREASED BY 25% FOR HORIZONTAL BARS WITH 300mm OR MORE CONCRETE CAST BELOW THE BAR) SIDE AND END LAPS IN WELDED MESH REINFORCEMENT SHALL BE 225mm, COMPRESSION BARS 35x BAR DIAMETER OF SMALLER LAPPED BARS.

REINFORCEMENT (CONT.)

11. MINIMUM YIELD STRENGTH OF REINFORCEMENT = 50 MPa UNLESS NOTED OTHERWISE.
12. ANCHORAGE OF SHEAR STIRRUPS OR SIMILAR TRANSVERSE REINFORCEMENT SHALL MEET THE FOLLOWING REQUIREMENTS.



13. MINIMUM INTERNAL BEND DIAMETER 4Db.

STRUCTURAL STEEL WORK

1. ALL STEEL WORKMANSHIP AND MATERIALS SHALL BE IN ACCORDANCE WITH AS 4100 AND THE SPECIFICATION.
2. UNLESS OTHERWISE NOTED ALL STEEL MATERIAL SHALL BE GRADE 350 TO AS/NZ 3679.1
3. ALL WELDS CATEGORY SP 6mm CONTINUOUS FILLET WELDS UNLESS NOTED OTHERWISE, COMPLETE PENETRATION BUTT WELDS (C.P.B.W.) USING E48XX ELECTRODES WITH CATEGORY S.P. INSPECTION WITH ALL WELDS 100% VISUALLY SCANNED, ALL TO AS/NZS 1554.1 UNLESS NOTED OTHERWISE. ALL WELDING SHALL BE PERFORMED BY A QUALIFIED WELDER IN ACCORDANCE WITH AS/NZS 1554.1.
4. WHERE MEMBERS ARE SHOWN AS A SINGLE MEMBER AND NO CONNECTION DETAILS ARE SHOWN, THE MEMBERS SHALL BE JOINED USING COMPLETE PENETRATION BUTT WELDS.
5. SITE WELDS SHALL BE THOROUGHLY WIRE BRUSHED CLEANED AND PAINTED IN ACCORDANCE WITH THE SPECIFICATION.
   ALL STEELWORKS SHALL BE COATED AS PER REQUIREMENTS IN THE SPECIFICATION
6. BUTT WELDS SHALL BE QUALIFIED COMPLETE PENETRATION BUTT WELDS AS DEFINED IN AS 1554 UNO.

EXISTING OPERATIONS

1. FERRY SERVICES SHALL CONTINUE TO OPERATE THROUGHOUT THE DURATION OF THE WORKS. THE CONTRACTOR SHALL ENSURE THAT FERRY SERVICES ARE NOT DISRUPTED BY THE WORKS OR BY ANY ASSOCIATED ACTIVITIES.

4	ISSUED FOR TENDER		18-08-20	
3	PRELIMINARY DESIGN RE-ISSUE		17-01-20	
2	PRELIMINARY DESIGN ISSUE		08-11-19	
1	ISSUED FOR INTERNAL REVIEW - QS		25-10-19	
	Revisions/Descriptions	Certification	Date	Microfiled

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CAD FILES | BIM 360://7905-29 SMBI Ferry Terminal Designs/46700408 – SMBI – Karragarra Island – PM – Jetty and Gangway.rvt

Associated Job Nos

Auxiliary Drg Nos

Survey Data
Datum GDA94
Horiz. Grid MGA Z56
Height Origin AHD
Survey Books

Scales
Dimensions shown in millimetres except where shown otherwise

SOUTHERN MORETON BAY
SOUTHERN MORETON BAY ISLANDS
KARRAGARRA ISLAND

FERRY TERMINALS DESIGN

Drawn GW
Checked EC
Designed LB
Design Review MN
Date 18-08-2020

MARITIME STRUCTURES
GENERAL NOTES - SHEET 1

ENGINEERING CERTIFICATION (RPEQ)

ENG. AREA	NAME	SIGNATURE	NO.	DATE

Queensland Government

File No.	467/00408
Contract. No.	CN-12653
Drawing No.	4006 | 4
Project No.	TMR29-130
MRM_Detail (05/14)	BN-70-1

ISSUE FOR TENDER

Cardno architectus

PRECAST CONCRETE

1. THE CONTRACTOR MAY CAST ANY OR ALL PRECAST COMPONENTS AS INSITU IF DESIRED.
2. ELEMENTS SHOWN AS CAST IN SITU SHALL NOT BE PRECAST.
3. IT IS THE CONTRACTORS RESPONSIBILITY TO DESIGN THE LIFTING SYSTEM INCLUDING THE SIZE, NUMBER AND POSITION OF THE HOOKS NOT TO OVERSTRESS THE SLAB.
4. SURFACE TO BE SCABBLED PRIOR TO PLACEMENT OF ADJACENT IN-SITU CONCRETE.
5. IT IS THE CONTRACTORS RESPONSIBILITY TO MAKE ALLOWANCE FOR TOLERANCE BETWEEN PRECAST DECK PLANKS.

CONCRETE/GROUT

1. ALL WORKMANSHIP AND MATERIALS SHALL BE IN ACCORDANCE WITH THE TECHNICAL SPECIFICATIONS AND THE FOLLOWING CODES:
   -AS4997
   -AS3600
   -AS3610
2. CONCRETE SHALL NOT BE PLACED FROM A HEIGHT OF MORE THAN 2m FROM THE POUR FACE.
3. CONCRETE FINISHES SHALL BE IN ACCORDANCE WITH THE TECHNICAL SPECIFICATION UNO.
4. SIZE OF CONCRETE ELEMENTS DO NOT INCLUDE THE THICKNESS OF APPLIED FINISHES.
5. NO PENETRATIONS, CHASES, OR EMBEDMENT OF PIPES OTHER THAN THOSE SHOWN ON THE STRUCTURAL DRAWINGS SHALL BE MADE. PIPES OR CONDUITS SHALL NOT BE PLACED WITHIN THE CONCRETE COVER TO REINFORCEMENT.
6. ALL CONCRETE WORK SHALL BE CURED IN ACCORDANCE WITH THE TECHNICAL SPECIFICATION.
7. ALL EDGES AND RE-ENTRANT CORNERS TO BE PROVIDED WITH A 25x25mm CHAMFER, UNO.
8. CONCRETE TO BE USED IN EACH ELEMENT OF THE WORK SHALL BE OF THE GRADE SHOWN BELOW UNLESS STATED OTHERWISE ON THE DRAWINGS. THE GRADE DESIGNATION SPECIFIES THE REQUIRED 28 DAYS STRENGTH.

ELEMENT	CONCRETE GRADE	CHARACTERISTIC COMP STRENGTH	EXPOSURE CLASSIFICATION	MIN. CONCRETE COVER (mm)
PRECAST CONCRETE (SOFFFIT)	N50	50	C2	65
IN SITU CONCRETE	N50	50	C1	50

EXCAVATION

1. CONTRACTOR SHALL PROVIDE STABLE SIDE SLOPE, BENCHING AND/ OR SHORING AS REQUIRED FOR STABILISING SIDES OF EXCAVATIONS.
2. CONTRACTOR SHALL PROVIDE COFFERDAM AND/ OR DEWATERING ARRANGEMENTS TO PROTECT CONSTRUCTION WORKS FROM FLOODING DUE TO TIDES, RAINFALL OR OTHER.
3. ENVIRONMENTAL CONTROLS SHALL BE INSTALLED TO THE REQUIREMENTS OF THE TECHNICAL SPECIFICATION.

TIDE DESCRIPTION

TIDAL PLANE	LEVEL (m LAT)	LEVEL (m AHD)
HAT	3.07	1.75
MHWS	2.45	1.13
MHWN	2.02	0.70
AHD	1.32	0.00
MSL	1.46	0.14
MLWN	0.89	-0.43
MLWS	0.47	-0.85
LAT	0.00	-1.32

PROTECTIVE COATINGS

1. AT COMPLETION OF CURING, SILANE WATER REPELLENT COATING WITH A FUGITIVE DYE SHALL BE APPLIED TO SOFFIT AND SEAWARD SIDE FACES OF ALL CONCRETE ELEMENTS IN ACCORDANCE WITH THE MANUFACTURER'S REQUIREMENTS AND THE TECHNICAL SPECIFICATION.

ALUMINIUM

1. ALL WORKMANSHIP AND MATERIALS SHALL BE IN ACCORDANCE WITH AS/NZS 1664.
2. ALL EXTRUDED ALUMINIUM SECTIONS SHALL COMPLY WITH AS/NZS 1866 - ALLOY 6060 - T6 OR 6060 - T5 OR 6351 - T5 OR 6082 - T5 OR 6082 - T6.
3. ALL ALUMINIUM PLATE SHALL COMPLY WITH AS/NZS 1734 - ALLOY 5083 - H112 OR 5086 - H112
4. ALL ALUMINIUM COMPONENTS SHALL BE FREE FROM EXCESSIVE TOOLMARKS, BURRS AND OTHER MANUFACTURING DEFECTS.
5. ALL WELDING SHALL BE IN ACCORDANCE WITH AS/NZS 1665. WELD QUALITY TO CATEGORY A.
6. WELDING CONSUMABLES TO BE 5356 TO AS 1665 UNLESS NOTED OTHERWISE.
7. ALL WORK SHALL BE NEATLY FINISHED WITH ALL SHARP EDGES GROUND SMOOTH.
8. ALL ALUMINIUM COMPONENTS SHALL BE CLEANED AND WELDING SLAG REMOVED BEFORE CLEAR ANODISING TO AS 1231.
9. WHERE SPECIFIED, STAINLESS STEEL BOLTS SHALL BE GRADE 316, NUTS AND WASHERS SHALL BE GRADE 316.
10. IN BOLTED JOINTS, CONTACT FACES OF ALUMINIUM AND THREADS OF BOLTS AND NUTS SHALL BE COATED WITH "DENSO" MULTI-PURPOSE PRIMER GREASE OR APPROVED EQUIVALENT AT ASSEMBLY. PROVIDE NYLON SEPARATOR BETWEEN STAINLESS STEEL BOLTS AND ALUMINIUM WHERE APPLICABLE.
11. WHERE SPECIFIED ON THE DRAWINGS, ALUMINIUM BOLTS, STUDS, WASHERS, NUTS AND OTHER ELEMENTS IN BOLTED CONNECTIONS SHALL BE OF GRADE 6061-T6. MINIMUM SHEAR STRENGTH 172MPa, MINIMUM TENSILE STRENGTH 290MPa.

ABBREVIATIONS

ACD	AUSTRALIAN CHART DATUM
AGD	AUSTRALIAN GEODETIC DATUM
AHD	AUSTRALIAN HEIGHT DATUM
BH	BORE HOLE
BTM	BOTTOM
CH	CHAINAGE
CJ	CONSTRUCTION JOINT
CL	CENTRELINE
COL	COLUMN
CRS	CENTRES
DN	NOMINAL DIAMETER
DRG	DRAWING
DRGS	DRAWINGS
EF	EACH FACE
EJ	EXPANSION JOINT
EW	EACH WAY
EX P	EXISTING PILE
EXB	EXISTING BEAM
EX HS	EXISTING HEADSTOCK
FDL	FINISHED DESIGN LEVEL
FF	FAR FACE
GALV	GALVANISED
HAT	HIGHEST ASTRONOMICAL TIDE
HD	HOLD DOWN
ID	INTERNAL DIAMETER
LAT	LOWEST ASTRONOMICAL TIDE
LIG	LIGATURE
MAX	MAXIMUM
MIN	MINIMUM
MHWS	MEAN HIGH WATER SPRINGS
MHWN	MEAN HIGH WATER NEAP
MSL	MEAN SEA LEVEL
MLWN	MEAN LOW WATER NEAP
MLWS	MEAN LOW WATER SPRINGS
NF	NEAR FACE
NO	NUMBER
NOM	NOMINAL
NTS	NOT TO SCALE
OD	OUTER DIAMETER
QTY	QUANTITY
RC	REINFORCED CONCRETE
REQD	REQUIRED
RL	REDUCED LEVEL
SS	STAINLESS STEEL
UNO	UNLESS NOTED OTHERWISE

2	ISSUED FOR TENDER		18-08-20	
1	PRELIMINARY DESIGN RE-ISSUE		17-01-20	
	Revisions/Descriptions	Certification	Date	Microfiled

CAD FILES | BIM 360://7905-29 SMBI Ferry Terminal Designs/46700408 – SMBI – Karragarra Island – PM – Jetty and Gangway.rvt

Associated Job Nos

Auxiliary Drg Nos

Survey Data

Datum	GDA94
Horiz. Grid	MGA Z56
Height Origin	AHD
Survey Books	

Scales

Dimensions shown in millimetres except where shown otherwise

SOUTHERN MORETON BAY
SOUTHERN MORETON BAY ISLANDS
KARRAGARRA ISLAND

FERRY TERMINALS DESIGN

Drawn	GW
Checked	EC
Designed	LB
Design Review	MN
Date	18-08-2020

MARITIME
STRUCTURES
GENERAL NOTES - SHEET 2

ENGINEERING CERTIFICATION (RPEQ)

ENG. AREA	NAME	SIGNATURE	NO.	DATE

Queensland Government

File No.	467/00408
Contract. No.	CN-12653
Drawing No.	4007 2
Project No.	TMR29-130
MRM_Detail (05/14)	BN-70-1

Last Modified: - 18/08/2020 9:27:28 PM

ISSUE FOR TENDER

Cardno architectus

GENERAL

G1 THESE DRAWINGS SHALL BE READ IN CONJUNCTION WITH ALL ARCHITECTURAL AND OTHER CONSULTANTS' DRAWINGS AND SPECIFICATIONS AND WITH SUCH OTHER WRITTEN INSTRUCTIONS AS MAY BE ISSUED DURING THE COURSE OF THE CONTRACT. ALL DISCREPANCIES SHALL BE REFERRED TO THE ADMINISTRATOR FOR DECISION BEFORE PROCEEDING WITH THE WORK.

G2 ALL DIMENSIONS ARE IN MILLIMETRES UNLESS STATED OTHERWISE. ALL LEVELS ARE EXPRESSED IN METRES.

G3 ALL DIMENSIONS RELEVANT TO SETTING OUT AND OFF-SITE WORK SHALL BE VERIFIED BY THE CONTRACTOR BEFORE CONSTRUCTION AND FABRICATION IS COMMENCED. THE ENGINEER'S DRAWINGS (INCLUSIVE OF ELECTRONIC COPIES) SHALL NOT BE SCALED.

G4 WORKMANSHIP AND MATERIALS ARE TO BE IN ACCORDANCE WITH THE RELEVANT CURRENT STANDARDS AUSTRALIA CODES INCLUDING ALL AMENDMENTS, AND THE LOCAL STATUTORY AUTHORITIES, EXCEPT WHERE VARIED BY THE CONTRACT DOCUMENTS.

G5 ALL PROPRIETARY PRODUCTS SHALL BE SUPPLIED AND INSTALLED IN STRICT ACCORDANCE WITH THE MANUFACTURER'S SPECIFICATIONS.

G6 SUBSTITUTION OF NOMINATED PRODUCTS AND MATERIALS SHALL ONLY OCCUR IF APPROVED BY CARDNO; NO SUBSTITUTIONS SHALL BE MADE OR SIZES OF STRUCTURAL MEMBERS VARIED WITHOUT OBTAINING THE APPROVAL OF THE ENGINEER. THE APPROVAL OF A SUBSTITUTION FROM THE ENGINEER SHALL NOT BE AN AUTHORISATION FOR AN EXTRA. ANY EXTRA INVOLVED SHALL BE TAKEN UP WITH THE ADMINISTRATOR BEFORE THE WORK COMMENCES.

G7 THE PRINCIPAL CONTRACTOR SHALL ALLOW IN HIS TENDER FOR APPROVED SUBSTITUTIONS DUE TO NON AVAILABILITY OF NOMINATED ITEMS.

G8 ALL INFORMATION INCLUDED IN THE STRUCTURAL ENGINEERING DOCUMENTATION IS FOR THE FINAL IN PLACE CONDITION OF THE STRUCTURE AND IS EXCLUSIVE OF TEMPORARY WORKS. THE PRINCIPAL CONTRACTOR IS RESPONSIBLE FOR ALL TEMPORARY WORKS AND THE ASSOCIATED COSTS. THE PRINCIPAL CONTRACTOR SHALL ENGAGE A TEMPORARY WORKS ENGINEER WHO SHALL BE RESPONSIBLE FOR THE DESIGN, DOCUMENTATION, CERTIFICATION AND SITE SUPERVISION OF ALL NECESSARY TEMPORARY WORKS. THE PRINCIPAL CONTRACTOR/TEMPORARY WORKS ENGINEER SHALL ENSURE THAT DURING CONSTRUCTION, THE STRUCTURE SHALL BE MAINTAINED IN A STABLE CONDITION AND THAT NO PART SHALL BE OVERSTRESSED. THE PRINCIPAL CONTRACTOR SHALL PROVIDE ALL TEMPORARY BRACING AND PROPPING AS NECESSARY, INCLUDING TEMPORARY SUPPORT FOR EXCAVATIONS.

G9 ALL COSTS INCURRED BY THE ENGINEER FOR ASSESSMENT OR APPROVAL OF SUBSTITUTED MEMBERS, ALTERNATIVE BUILDING SOLUTIONS OR TEMPORARY PROPPING WORKS SHALL BE BORNE BY THE PRINCIPAL CONTRACTOR.

G10 NO HOLES, RECESSES OR CHASES OTHER THAN THOSE SHOWN ON THE STRUCTURAL DRAWINGS SHALL BE MADE WITHOUT PRIOR APPROVAL OF THE ENGINEER.

G11 THE PRINCIPAL CONTRACTOR IS TO ENSURE THAT ALL MATERIALS ARE PROTECTED IN ACCORDANCE WITH THE PROJECT REQUIREMENTS, INCLUDING COMPLIANCE WITH THE BCA. THESE INCLUDE BUT ARE NOT LIMITED TO:

- FIRE RATINGS
- TERMITE PROTECTION
- DURABILITY

THE PRINCIPAL CONTRACTOR IS TO PROVIDE PROTECTION OR TREATMENT TO MATERIALS TO SATISFY THE ABOVE REQUIREMENTS.

G12 THE FOLLOWING ABBREVIATIONS USED IN THESE DRAWINGS ARE:

T	TOP	B	BOTTOM
BW	BOTH WAYS	CTS	CENTRES
EF	EACH FACE	EW	EACH WAY
FF	FAR FACE	NF	NEAR FACE
FW	FILLET WELD	PL	PLATE
CFW	CONTINUOUS FILLET WELD		
UNO	UNLESS NOTED OTHERWISE		

G13 THE PROJECT BUILDING CERTIFIER IS TO UNDERTAKE ALL MANDATORY SITE INSPECTIONS IN ACCORDANCE WITH THE REQUIREMENTS OF THE BUILDING CODE OF AUSTRALIA. ANY SITE INSPECTIONS UNDERTAKEN BY THE ENGINEER (CARDNO) ARE IN ADDITION TO THE BUILDING SURVEYOR'S INSPECTIONS AND ARE FOR THE PURPOSE OF PERIODICALLY REVIEWING CONSTRUCTION WORKS TO ENSURE COMPLIANCE BY THE PRINCIPAL CONTRACTOR WITH THE ENGINEER'S DESIGN INTENT AND NOT FOR THE COMPLIANCE WITH THE CERTIFICATION REQUIREMENTS OF THE BUILDING SURVEYOR.

G14 IT IS THE TENDERER'S / PRINCIPAL CONTRACTOR'S RESPONSIBILITY TO ENSURE ALL SUB-CONTRACTORS HAVE READ THIS DRAWING SHEET IN CONJUNCTION WITH ALL OTHER STRUCTURAL AND PROJECT DOCUMENTATION. THE TENDERER / PRINCIPAL CONTRACTOR SHALL ENSURE THAT SUB-CONTRACTORS ARE ISSUED ALL STRUCTURAL AND ALL OTHER PROJECT CONSULTANTS DRAWINGS.

STEELWORK

ST1 ALL WORKMANSHIP AND MATERIALS SHALL BE IN ACCORDANCE WITH AS4100. UNLESS NOTED OTHERWISE ALL STEEL SHALL AS A MINIMUM BE IN ACCORDANCE WITH:

AS/NZS3679 GRADE 300+ FOR ROLLED SECTIONS
AS1163 GRADE 350 FOR RHS/SHS SECTIONS
AS1163 GRADE 350 FOR CHS SECTIONS
AS/NZS3679 GRADE 350 FOR ALL HIGH STRENGTH STEEL

ST2 THE ERECTION CONTRACTOR SHALL BE RESPONSIBLE FOR ALL TEMPORARY BRACING NECESSARY TO STABILISE THE STRUCTURE DURING ERECTION AND LEAVE IN PLACE UNTIL PERMANENT BRACING ELEMENTS ARE CONSTRUCTED.

ST3 SHOP DETAIL DRAWINGS SHALL BE SUBMITTED IN HARD COPY FORMAT TO THE ENGINEER A MINIMUM OF 14 DAYS PRIOR TO THE SCHEDULED FABRICATION DATE. REVIEW OF SAME SHALL BE OBTAINED BEFORE COMMENCING FABRICATION. REVIEW WILL NOT COVER LAYOUT DIMENSIONS. ONLY ONE SET OF SHOP DRAWINGS WILL BE RETURNED.

ST4 FOR DETAILS OF APPLIED FINISHES TO ALL STEELWORK REFER TO ARCHITECTS DRAWINGS AND SPECIFICATION.

ST5 FILLET WELDS SHALL BE AT LEAST 6mm FILLET CONTINUOUS FOR THE FULL CONTACT OF THE MEMBER UNLESS NOTED OTHERWISE. ALL BUTT WELDS SHALL BE FULL STRENGTH COMPLETE PENETRATION WELDS. ELECTRODES SHALL COMPLY WITH AS1554 (BE49XX UNLESS NOTED OTHERWISE). ALL WELDS SHALL BE CATEGORY SP (STRUCTURAL PURPOSE) IN ACCORDANCE WITH AS/NZS1554 UNLESS NOTED OTHERWISE AND WELDING SHALL BE PERFORMED BY EXPERIENCED OPERATORS.

ST6 THE FABRICATION AND ERECTION OF THE STRUCTURAL STEELWORK SHALL BE SUPERVISED BY AN APPROVED INDEPENDENT WELDING INSPECTION SERVICE TO ENSURE THAT ALL REQUIREMENTS OF THE DESIGN ARE SATISFIED. THE COST OF THE SUPERVISION IS TO BE INCLUDED IN THE STEEL CONTRACTOR'S SCOPE.

ST7 BOLTS ARE DESIGNATED ON THE DRAWINGS BY THE NUMBER, DIAMETER, GRADE AND TIGHTENING PROCEDURE IN ACCORDANCE WITH ASI BOLTING PROCEDURES (STANDARDISED STRUCTURAL CONNECTIONS). ALL BOLTS SHALL BE COMMERCIAL GRADE TO AS 1111 OR HIGH TENSILE TO AS1252.

COMMERCIAL GRADE BOLTS.....4.6/S
HIGH TENSILE BOLTS SNUG TIGHT.....8.8/S
HIGH TENSILE BOLTS BEARING CONNECTION, FULLY TENSIONED...8.8/TB
HIGH TENSILE BOLTS FRICTION CONNECTION, FULLY TENSIONED...8.8/TF

REFER TO AS 4100 FOR THE PREPARATION OF THE MEMBER CONTACT SURFACES OF BEARING AND FRICTION CONNECTIONS. BOLTS SHALL BE TENSIONED IN A CONTROLLED MANNER TO THE REQUIREMENTS OF AS4100. WHERE FULLY TENSIONED BOLTS ARE REQUIRED LOAD INDICATING WASHERS ARE TO BE USED. ALL BOLTS HOLES SHALL BE 2mm LARGER THAN THE NOMINATED BOLT DIAMETER UNLESS NOTED OTHERWISE.

ST8 UNLESS NOTED OTHERWISE WELDS SHALL BE 6mm CONTINUOUS FILLET. BOLTS SHALL BE M20 8.8/S, MINIMUM 2 BOLTS PER CONNECTION, CLEATS AND GUSSETS 10mm THICK. ALL WELDS TO BE CLASS SP.

ST9 PURLIN CLEATS SHALL BE 8mm PLATES, 6 CFW & 2 M12 4.6/S BOLTS UNLESS NOTED OTHERWISE.

ST10 CLEATS, BRACKETS AND DRILLINGS FOR ARCHITECTURAL FIXINGS SHALL BE PROVIDED BY THE FABRICATOR.

ST11 THE ENDS OF ALL TUBULAR MEMBERS SHALL BE SEALED WITH NOMINAL THICKNESS PLATES AND CONTINUOUS FILLET WELD UNLESS NOTED OTHERWISE.

ST12 UNLESS OTHERWISE SPECIFIED ALL STEELWORK SHALL HAVE ONE SHOP COAT OF ZINC PHOSPHATE PRIMER TO AS/NZS2312. MEMBERS TO BE ENCASED IN CONCRETE, GALVANISED, FIRE SPRAYED OR 8.8/TF BOLTED CONNECTIONS SHALL NOT BE PAINTED IN THESE AREAS. TOUCH UP AFTER ERECTION AS NECESSARY. ALL PAINTING SHALL BE DONE ON CLEAN DRY SURFACES FREE FROM RUST, SCALE AND GREASE. ALL DAMAGED PAINTWORK, NUTS, BOLTS AND WASHERS AND CLEAN SITE WELDS SHALL RECEIVE ONE SITE COAT OF ZINC PHOSPHATE PRIMER. PAINT COLOUR TO ARCHITECT'S SPECIFICATION.

ST13 ALL EXTERNAL STEELWORK IS TO BE HOT DIP GALVANISED. GALVANISED MEMBERS SHALL CONFORM TO AS1214 AND AS/NZS4680. PREPARATION AND PRE-TREATMENT OF SURFACES SHALL BE IN ACCORDANCE WITH AS1627. ANY DAMAGED GALVANISED SURFACE SHALL RECEIVE ONE SITE COAT OF APPROVED ZINC EPOXY PAINT.

	Revisions/Descriptions	Certification	Date	Microfiled
4	ISSUED FOR TENDER		18-08-20	
3	PRELIMINARY DESIGN RE-ISSUE		17-01-20	
2	PRELIMINARY DESIGN ISSUE		08-11-19	
1	ISSUED FOR INTERNAL REVIEW - QS		25-10-19	

CAD FILES | BIM 360://7905-29 SMBI Ferry Terminal Designs/46700408-SMBI-Karragarra Island-S-Pontoon.rvt

Last Modified - 18/08/2020 5:20:27 PM

Associated Job Nos

Auxiliary Drg Nos

Survey Data: Datum GDA94; Horiz. Grid MGA Z56; Height Origin AHD; Survey Books

Scales

Dimensions shown in millimetres except where shown otherwise

SOUTHERN MORETON BAY
SOUTHERN MORETON BAY ISLANDS
KARRAGARRA ISLAND

FERRY TERMINALS DESIGN

Drawn H.G.
Checked P.S.
Designed C.M.
Design Review P.S.
Date 18-08-20

MARITIME
PONTOON
GENERAL NOTES

ENGINEERING CERTIFICATION (RPEQ)

ENG. AREA	NAME	SIGNATURE	NO.	DATE

Queensland Government

File No. 467/00408
Contract. No. CN-12653
Drawing No. 4008 | 4
Project No. TMR29-130

MRM_Detail (05/14) | BN-70-1

ISSUED FOR TENDER
31 August 2020

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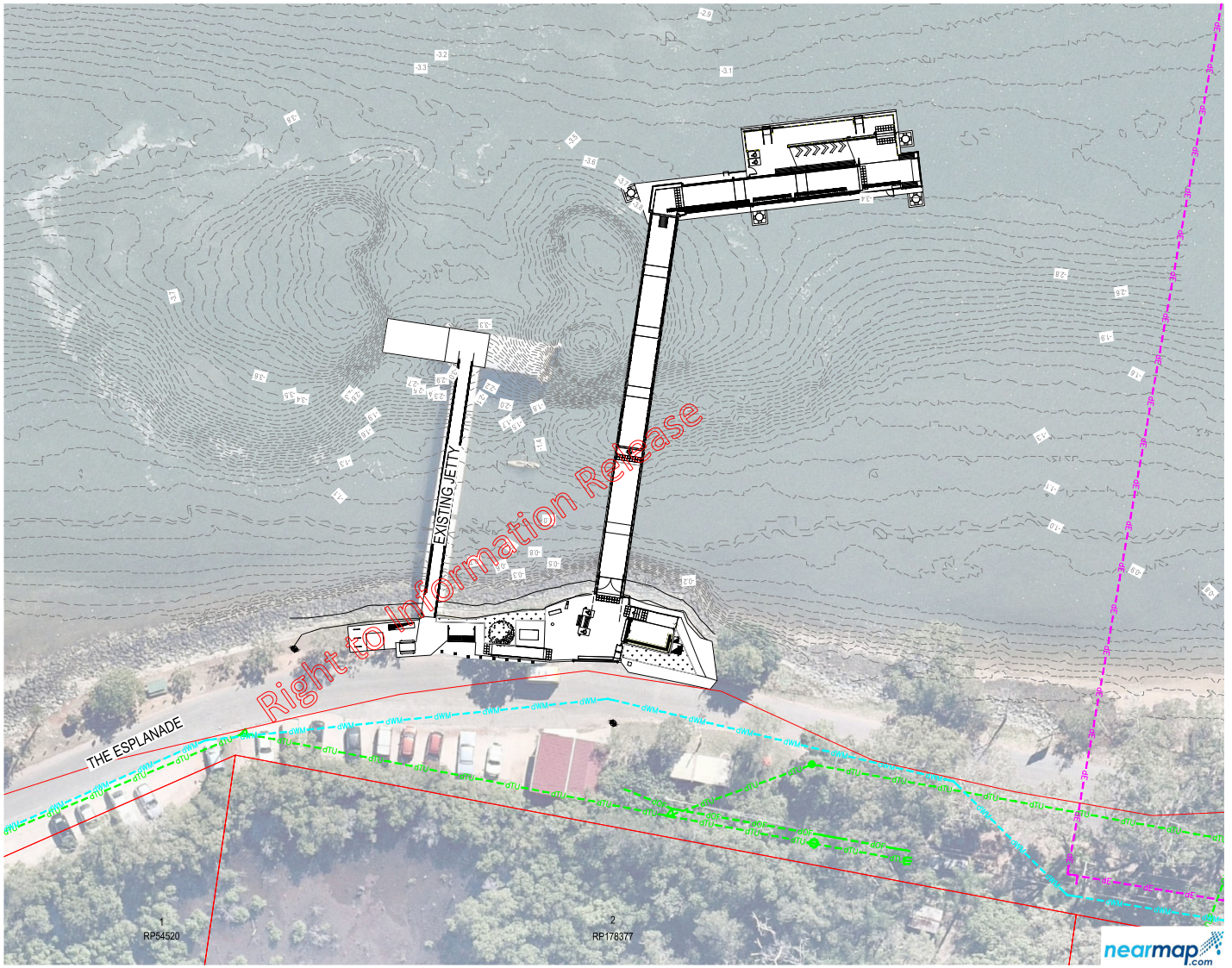

PUBLIC UTILITIES LAYOUT
SCALE 1:250

LEGEND:

- dTU — TELSTRA MAIN CABLE (DBYD)
- dE — CABLE VOLTAGE LESS THAN 33kV (DBYD)
- dWM — WATER MAIN (DBYD)
- dOF — OPTICAL FIBRE - NBN (DBYD)
- CADASTRAL BOUNDARY (DCDB)
- -1.0 — EXISTING CONTOUR

NOTES:

1. THE CONTRACTOR SHALL LOCATE AND LEVEL ALL EXISTING SERVICES PRIOR TO COMMENCING CONSTRUCTION, PROTECT AND MAKE ARRANGEMENTS WITH THE RELEVANT AUTHORITY TO RELOCATE AND/OR ADJUST IF NECESSARY. INFORMATION GIVEN TO THE DRAWINGS IN RESPECT TO SERVICES IS FOR GUIDANCE ONLY. IT IS NOT GUARANTEED COMPLETE NOR CORRECT.

2. ENERGEX ASSET RELOCATIONS ARE REQUIRED PRIOR TO THE COMMENCEMENT OF WORKS, THE CONTRACTOR SHALL COORDINATE THIS PROCESS WITH ENERGEX. REFER TO ELECTRICAL DESIGN DRAWINGS FOR FURTHER DETAILS.

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2	REVISED ISSUE FOR TENDER		27/08/2020	LG
1	ISSUE FOR TENDER		17/08/2020	LG
	Revisions/Descriptions	Certification	Date	Microfiled

Associated Job Nos

Auxiliary Drg Nos

Survey Data	
Datum	GDA94
Horiz. Grid	MGA ZONE 56
Height Origin	LAT OR AHD
Survey Books	

Scales
0 5 10m
SCALE 1:250 @A1

Dimensions shown in metres except where shown otherwise

SOUTHERN MORETON BAY
SOUTHERN MORETON BAY ISLANDS
KARRAGARRA ISLAND

FERRY TERMINALS DESIGN

Drawn	K.ALONZO
Checked	A.McCULLOCH
Designed	A.McCULLOCH
Design Review	L.GARSIDE
Date.	

EXISTING PUBLIC UTILITIES LAYOUT PLAN

ENGINEERING CERTIFICATION (RPEQ)

ENG. AREA	NAME	SIGNATURE	NO.	DATE
				-
				-
				-

Queensland Government

File No.	467/00408
Contract. No.	CN-12653
Drawing No.	4009 2
Project No.	TMR29-130
MRM_Detail (05/14)	BN-70-1-1

ISSUE FOR TENDER

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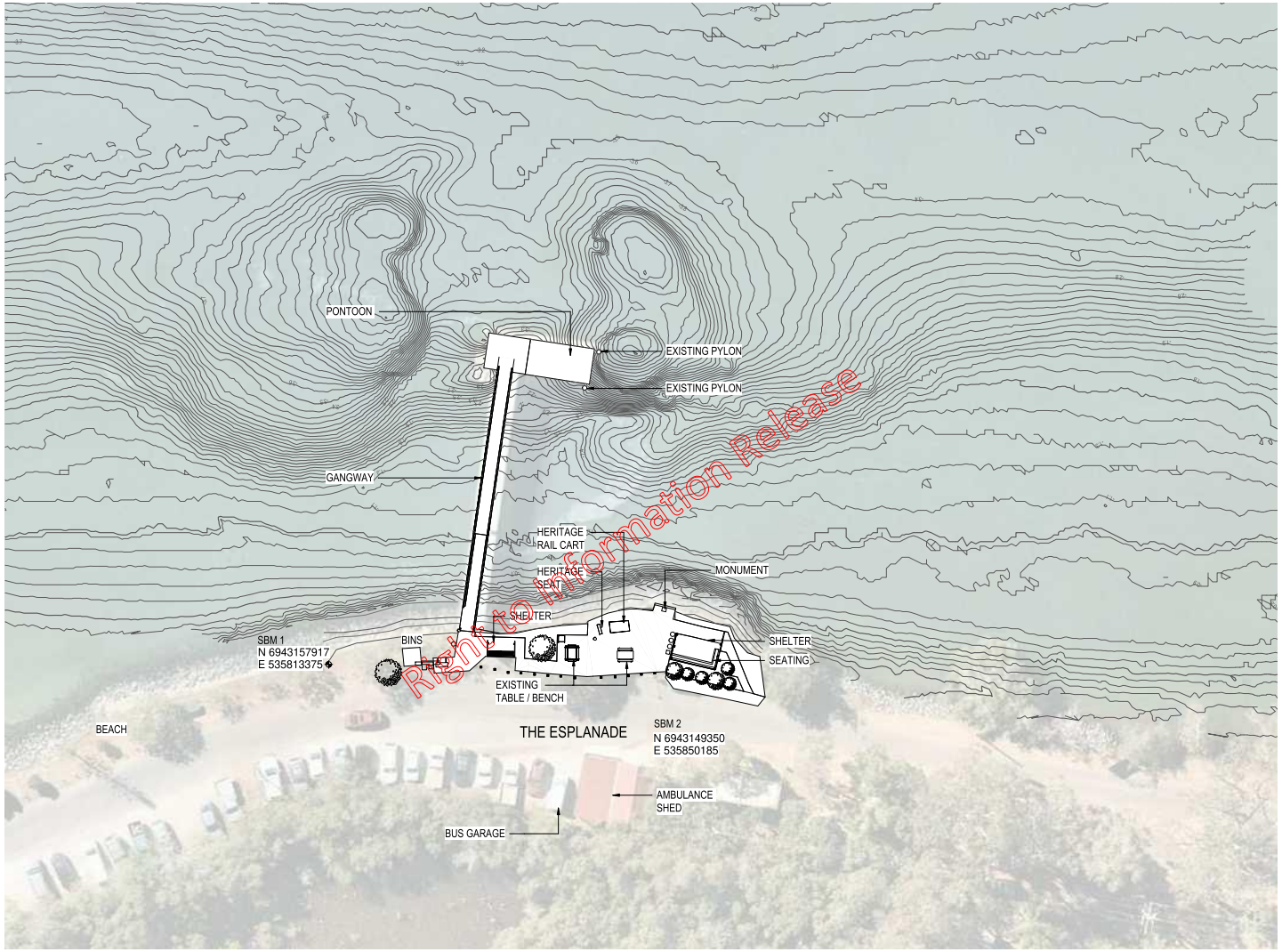

SBM1
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SBM2
N: 6943149350 E: 535850185

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SCALE 1:250

4	ISSUED FOR TENDER		14-08-20	
3	PRELIMINARY ISSUE		13-07-20	
2	PRELIMINARY DESIGN RE-ISSUE		15-01-20	
1	PRELIMINARY DESIGN ISSUE		08-11-19	
	Revisions/Descriptions	Certification	Date	Microfiled

CAD FILES: BIM 360://7905-29 SMBI Ferry Terminal Designs/46700408 - SMBI - Karragarra Island - A - Site and Jetty.rvt

Last Modified :- 17/09/2020 6:29:38 PM

Associated Job Nos

Auxiliary Drg Nos

Survey Data: Datum GDA94; Horiz. Grid MGA Z56; Height Origin AHD; Survey Books

Scales

Dimensions shown in millimetres except where shown otherwise

SOUTHERN MORETON BAY
SOUTHERN MORETON BAY ISLANDS
KARRAGARRA ISLAND
FERRY TERMINALS DESIGN

Drawn ML
Checked AR
Designed AR
Design Review AR
Date 11/08/20

ARCHITECTURAL

EXISTING CONDITIONS PLAN

ENGINEERING CERTIFICATION (RPEQ)

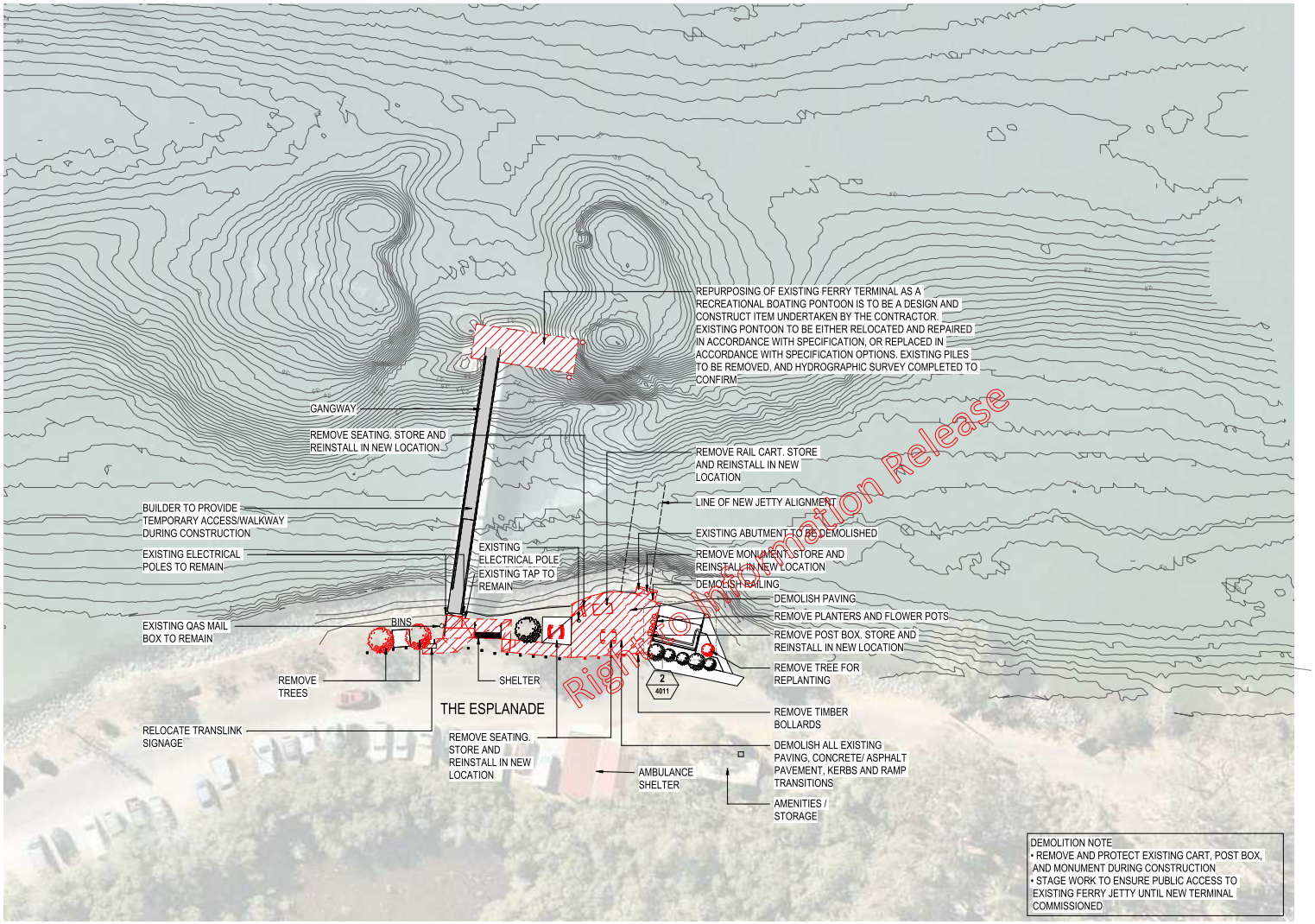
ENG. AREA	NAME	SIGNATURE	NO.	DATE

Queensland Government

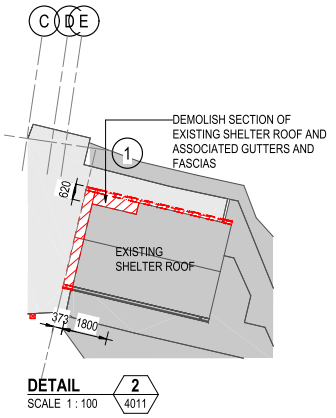
File No. 467/00408
Contract. No. CN-12653
Drawing No. 4010 4
Project No. TMR29-130
MRM_Detail (05/14) BN-70-1

ISSUE FOR TENDER

Cardno architectus



DEMOLITION NOTE
- REMOVE AND PROTECT EXISTING CART, POST BOX, AND MONUMENT DURING CONSTRUCTION
- STAGE WORK TO ENSURE PUBLIC ACCESS TO EXISTING FERRY JETTY UNTIL NEW TERMINAL COMMISSIONED



DETAIL 2 / 4011
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SCALE 1:250

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SCALE 1:100

6	REVISED ISSUE FOR TENDER		31-08-20	
5	ISSUED FOR TENDER		14-08-20	
4	PRELIMINARY ISSUE		13-07-20	
3	REVISED DEMOLITION PLAN		02-07-20	
2	PRELIMINARY DESIGN RE-ISSUE		15-01-20	
1	PRELIMINARY DESIGN ISSUE		08-11-19	
	Revisions/Descriptions	Certification	Date	Microfiled

CAD FILES: BIM 360://7905-29 SMBI Ferry Terminal Designs/46700408 - SMBI - Karragarra Island - A - Site and Jetty.rvt

Associated Job Nos

Auxiliary Drg Nos

Survey Data: Datum GDA94; Horiz. Grid MGA Z56; Height Origin AHD; Survey Books

Scales

Dimensions shown in millimetres except where shown otherwise

SOUTHERN MORETON BAY
SOUTHERN MORETON BAY ISLANDS
KARRAGARRA ISLAND

FERRY TERMINALS DESIGN

Drawn	ML
Checked	AR
Designed	AR
Design Review	AR
Date	11/08/20

ARCHITECTURAL

DEMOLITION PLAN

ENGINEERING CERTIFICATION (RPEQ)

ENG. AREA	NAME	SIGNATURE	NO.	DATE

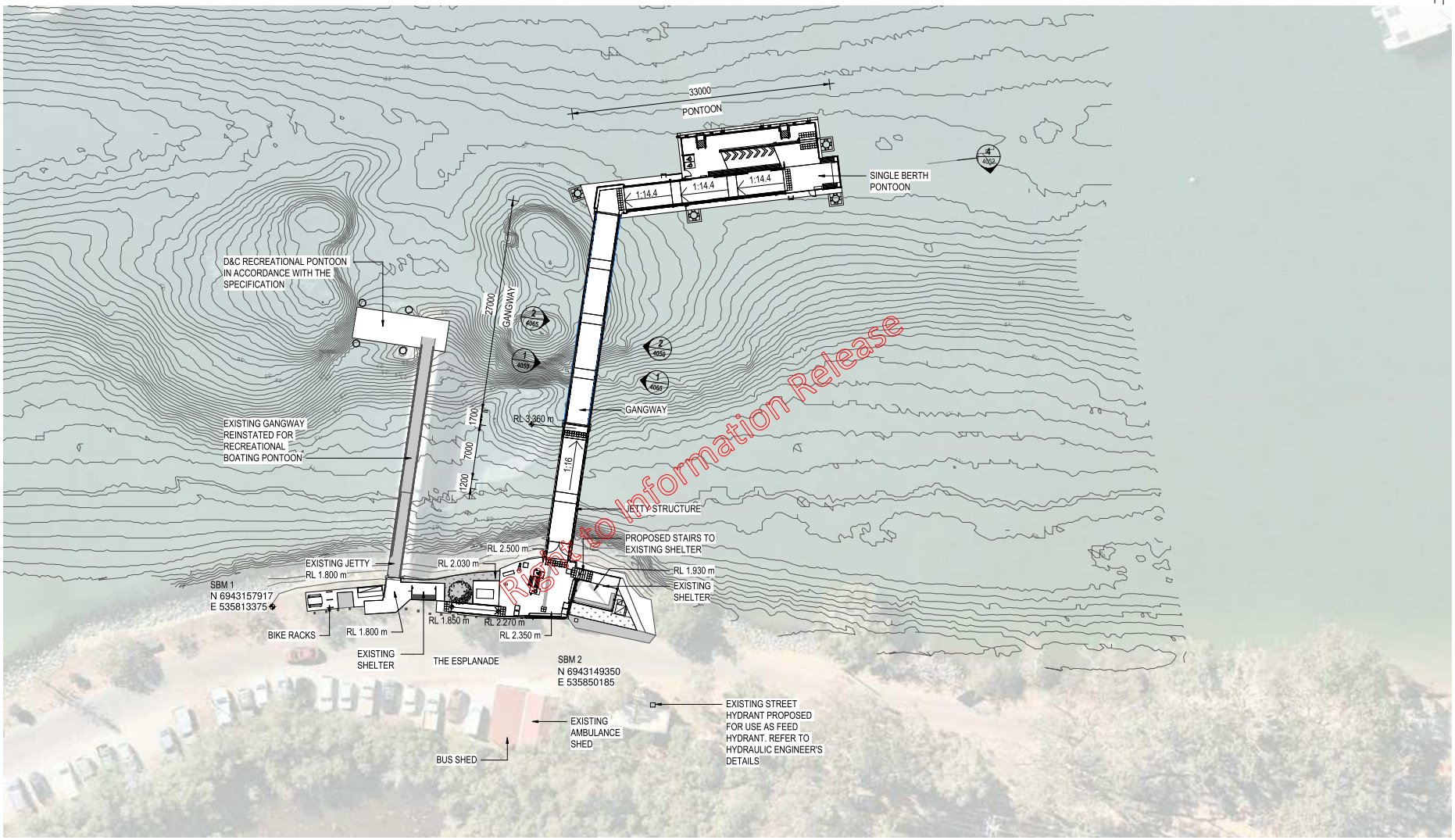
Queensland Government

File No.	467/00408
Contract. No.	CN-12653
Drawing No.	4011 6
Project No.	TMR29-130
MRM_Detail (05/14)	BN-70-1

Last Modified: - 31/08/2020 6:39:56 PM

ISSUE FOR TENDER

Cardno architectus



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SCALE 1:250

	Revisions/Descriptions	Certification	Date	Microfiled
8	REVISED ISSUE FOR TENDER		31-08-20	
7	ISSUED FOR TENDER		14-08-20	
6	PRELIMINARY ISSUE		13-07-20	
5	REVISED LANDSIDE LAYOUT		25-06-20	
4	PD REVISED LAYOUT ISSUE		14-04-20	
3	PRELIMINARY DESIGN RE-ISSUE		15-01-19	
2	PRELIMINARY DESIGN ISSUE		08-11-19	

CAD FILES: BIM 360://7905-29 SMBI Ferry Terminal Designs/46700408 - SMBI - Karragarra Island - A - Site and Jetty.rvt

Associated Job Nos

Auxiliary Drg Nos

Survey Data	
Datum	GDA94
Horiz. Grid	MGA Z56
Height Origin	AHD
Survey Books	

Scales

Dimensions shown in millimetres except where shown otherwise

SOUTHERN MORETON BAY
SOUTHERN MORETON BAY ISLANDS
KARRAGARRA ISLAND

FERRY TERMINALS DESIGN

Drawn	ML
Checked	AR
Designed	AR
Design Review	AR
Date	11/08/20

ARCHITECTURAL

PROPOSED SITE PLAN

ENGINEERING CERTIFICATION (RPEQ)

ENG. AREA	NAME	SIGNATURE	NO.	DATE

Queensland Government

File No.	467/00408
Contract. No.	CN-12653
Drawing No.	4012 8
Project No.	TMR29-130
MRM_Detail (05/14)	BN-70-1

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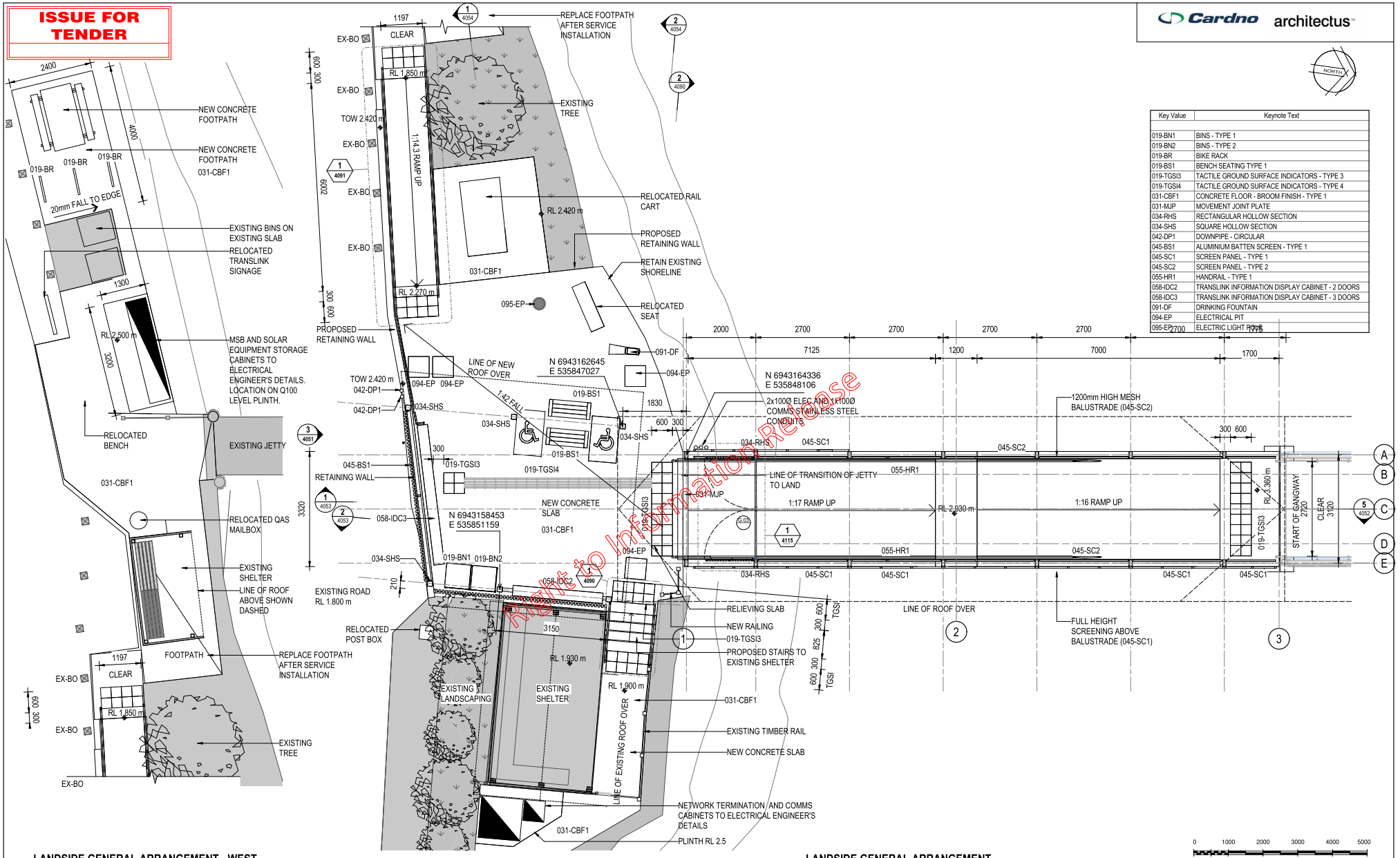
ISSUE FOR TENDER

Cardno architectus



Key Value	Keynote Text
019-BN1	BINS - TYPE 1
019-BN2	BINS - TYPE 2
019-BR	BIKE RACK
019-BS1	BENCH SEATING TYPE 1
019-TGSI3	TACTILE GROUND SURFACE INDICATORS - TYPE 3
019-TGSI4	TACTILE GROUND SURFACE INDICATORS - TYPE 4
031-CBF1	CONCRETE FLOOR - BROOM FINISH - TYPE 1
031-MJP	MOVEMENT JOINT PLATE
034-RHS	RECTANGULAR HOLLOW SECTION
034-SHS	SQUARE HOLLOW SECTION
042-DP1	DOWNPIPE - CIRCULAR
045-BS1	ALUMINIUM BATTEN SCREEN - TYPE 1
045-SC1	SCREEN PANEL - TYPE 1
045-SC2	SCREEN PANEL - TYPE 2
055-HR1	HANDRAIL - TYPE 1
058-IDC2	TRANSLINK INFORMATION DISPLAY CABINET - 2 DOORS
058-IDC3	TRANSLINK INFORMATION DISPLAY CABINET - 3 DOORS
091-DF	DRINKING FOUNTAIN
094-EP	ELECTRICAL PIT
095-EP	ELECTRIC LIGHT POLE

LANDSIDE GENERAL ARRANGEMENT - WEST
SCALE 1 : 50

LANDSIDE GENERAL ARRANGEMENT
SCALE 1 : 50

SCALE 1:50

No	Revisions/Descriptions	Certification	Date	Microfiled
8	REVISED ISSUE FOR TENDER		31-08-20	
7	ISSUED FOR TENDER		14-08-20	
6	PRELIMINARY ISSUE		13-07-20	
5	REVISED LANDSIDE LAYOUT		25-06-20	
4	PD REVISED LAYOUT ISSUE		14-04-20	
3	PRELIMINARY DESIGN RE-ISSUE		15-01-20	
2	PRELIMINARY DESIGN ISSUE		08-11-19	

CAD FILES: BIM 360://7905-29 SMBI Ferry Terminal Designs/46700408 - SMBI - Karragarra Island - A - Site and Jetty.rvt

Associated Job Nos

Auxiliary Drg Nos

Survey Data	
Datum	GDA94
Horiz. Grid	MGA Z56
Height Origin	AHD
Survey Books	

Scales

Dimensions shown in millimetres except where shown otherwise

SOUTHERN MORETON BAY
SOUTHERN MORETON BAY ISLANDS
KARRAGARRA ISLAND

FERRY TERMINALS DESIGN

Drawn	ML
Checked	AR
Designed	AR
Design Review	AR
Date	11/08/20

ARCHITECTURAL
LANDSIDE AND JETTY
GENERAL ARRANGEMENT

ENGINEERING CERTIFICATION (RPEQ)

ENG. AREA	NAME	SIGNATURE	NO.	DATE

Queensland Government

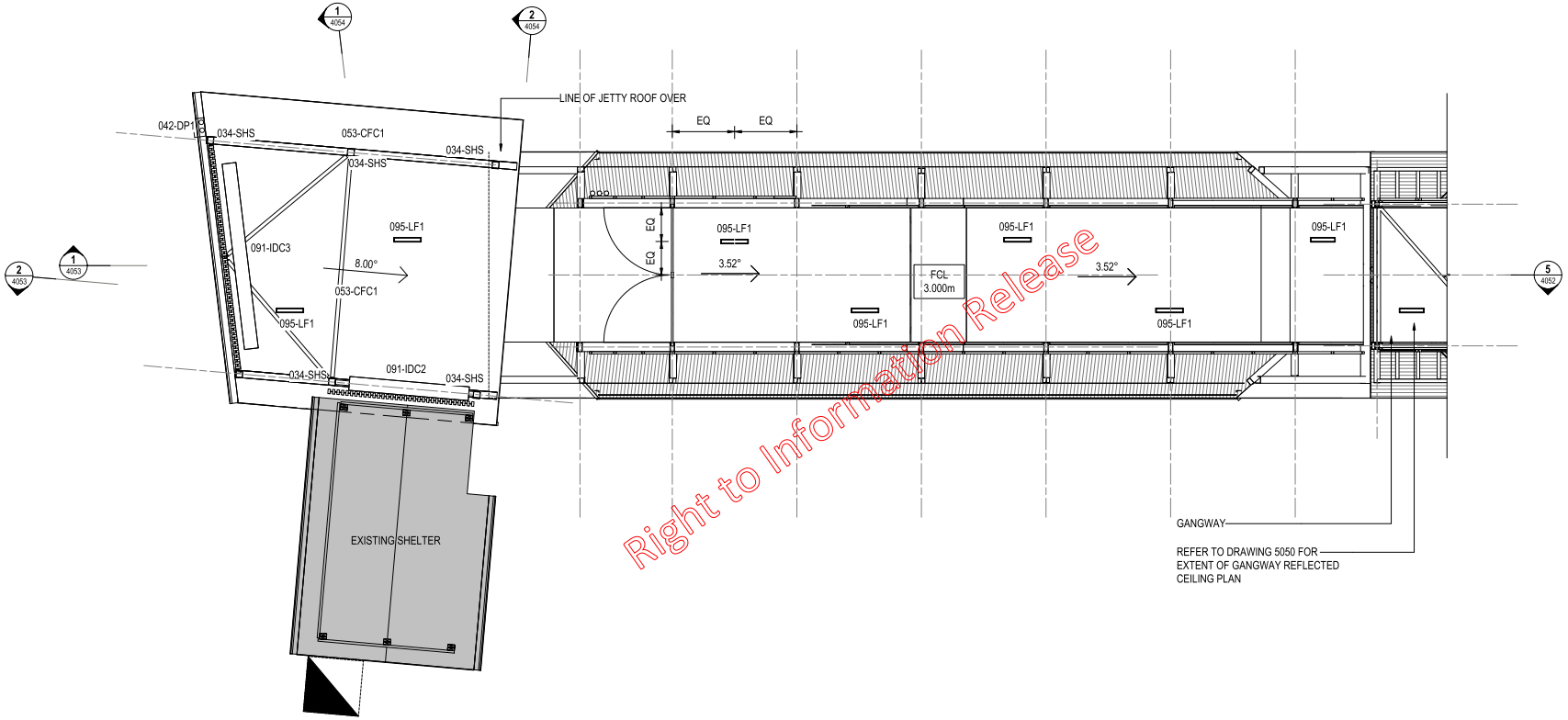
File No.	467/00408
Contract. No.	CN-12653
Drawing No.	4020 | 8
Project No.	TMR29-130
MRM_Detail (05/14)	BN-70-1

Last Modified :- 31/08/2020 8:38:43 PM

ISSUE FOR TENDER

Cardno architectus

Key Value	Keynote Text
034-SHS	SQUARE HOLLOW SECTION
042-DP1	DOWNPIPE - CIRCULAR
053-CFC1	CFC CEILING 1
091-IDC2	TRANSLINK INFORMATION DISPLAY CABINET - 2 DOORS
091-IDC3	TRANSLINK INFORMATION DISPLAY CABINET - 3 DOORS
095-LF1	RECESSED LINEAR LIGHT



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SCALE 1:50

4	ISSUED FOR TENDER		14-08-20	
3	PRELIMINARY ISSUE		13-07-20	
2	PRELIMINARY DESIGN RE-ISSUE		15-01-20	
1	PRELIMINARY DESIGN ISSUE		08-11-19	
	Revisions/Descriptions	Certification	Date	Microfiled

CAD FILES: BIM 360://7905-29 SMBI Ferry Terminal Designs/46700408 - SMBI - Karragarra Island - A - Site and Jetty.rvt

Last Modified :- 17/09/2020 5:30:16 PM

Associated Job Nos

Auxiliary Drg Nos

Survey Data	
Datum	GDA94
Horiz. Grid	MGA Z56
Height Origin	AHD
Survey Books	

Scales

Dimensions shown in millimetres except where shown otherwise

SOUTHERN MORETON BAY
SOUTHERN MORETON BAY ISLANDS
KARRAGARRA ISLAND

FERRY TERMINALS DESIGN

Drawn	ML
Checked	AR
Designed	AR
Design Review	AR
Date	11/08/20

ARCHITECTURAL
LANDSIDE AND JETTY
REFLECTED CEILING PLAN

ENGINEERING CERTIFICATION (RPEQ)

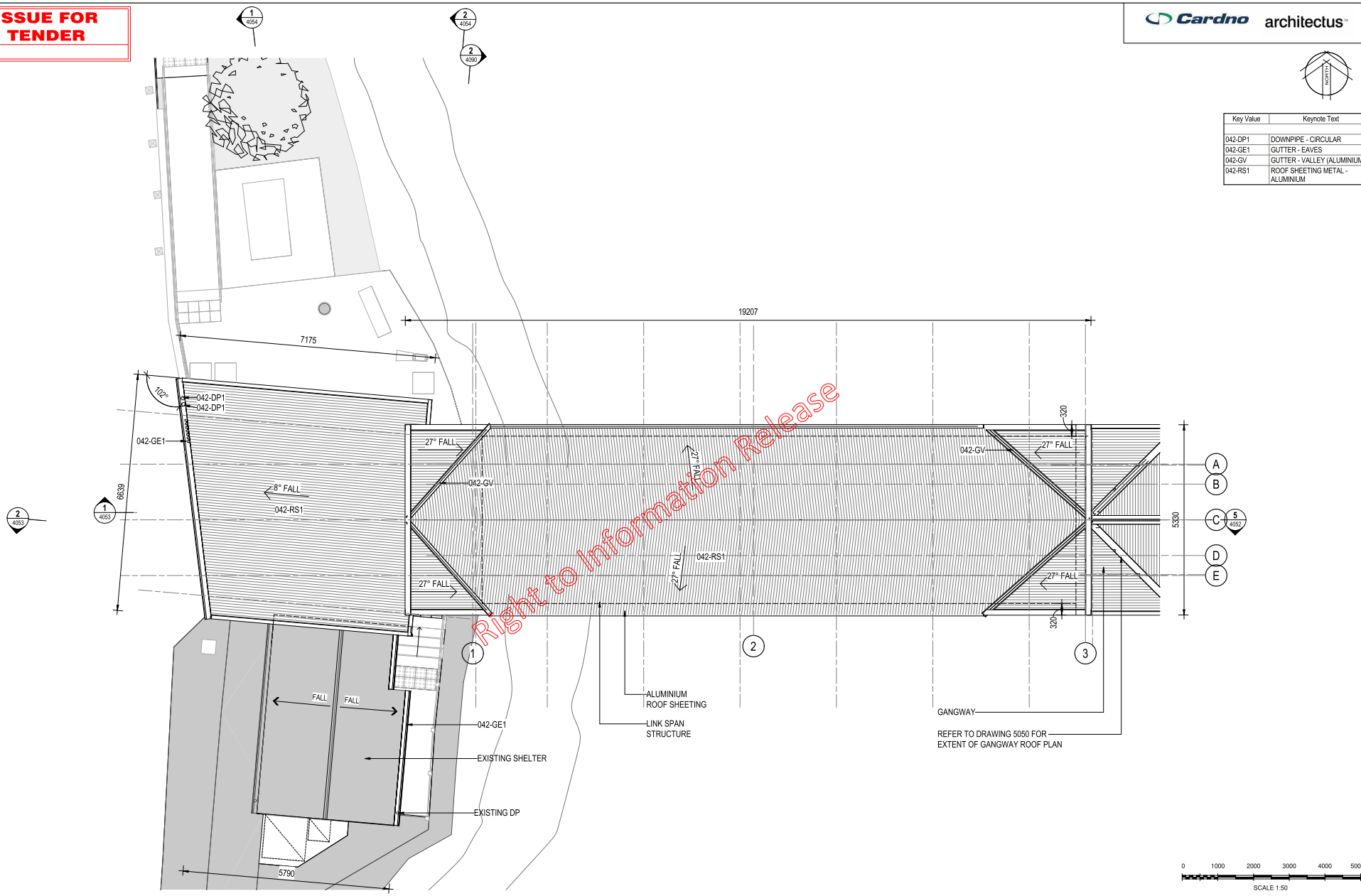
ENG. AREA	NAME	SIGNATURE	NO.	DATE

Queensland Government

File No.	467/00408
Contract. No.	CN-12653
Drawing No.	4030 | 4
Project No.	TMR29-130
MRM_Detail (05/14)	BN-70-1

ISSUE FOR TENDER

Cardno architectus



Key Value	Keynote Text
042-DP1	DOWNPIPE - CIRCULAR
042-GE1	GUTTER - EAVES
042-GV	GUTTER - VALLEY (ALUMINIUM)
042-RS1	ROOF SHEETING METAL - ALUMINIUM

	Revisions/Descriptions	Certification	Date	Microfiled
6	REVISED ISSUE FOR TENDER		31-08-20	
5	ISSUED FOR TENDER		14-08-20	
4	PRELIMINARY ISSUE		13-07-20	
3	PRELIMINARY DESIGN RE-ISSUE		15-01-20	
2	PRELIMINARY DESIGN ISSUE		08-11-19	
1	ISSUED FOR INTERNAL REVIEW - QS		25-10-19	

CAD FILES: BIM 360://7905-29 SMBI Ferry Terminal Designs/46700408 - SMBI - Karragarra Island - A - Site and Jetty.rvt

Last Modified: - 31/08/2020 6:38:33 PM

Associated Job Nos

Auxiliary Drg Nos

Survey Data: Datum GDA94; Horiz. Grid MGA Z56; Height Origin AHD; Survey Books

Scales: Dimensions shown in millimetres except where shown otherwise

SOUTHERN MORETON BAY
SOUTHERN MORETON BAY ISLANDS
KARRAGARRA ISLAND

FERRY TERMINALS DESIGN

Drawn	ML
Checked	AR
Designed	AR
Design Review	AR
Date	11/08/20

ARCHITECTURAL
LANDSIDE AND JETTY
ROOF PLAN

ENGINEERING CERTIFICATION (RPEQ)

ENG. AREA	NAME	SIGNATURE	NO.	DATE

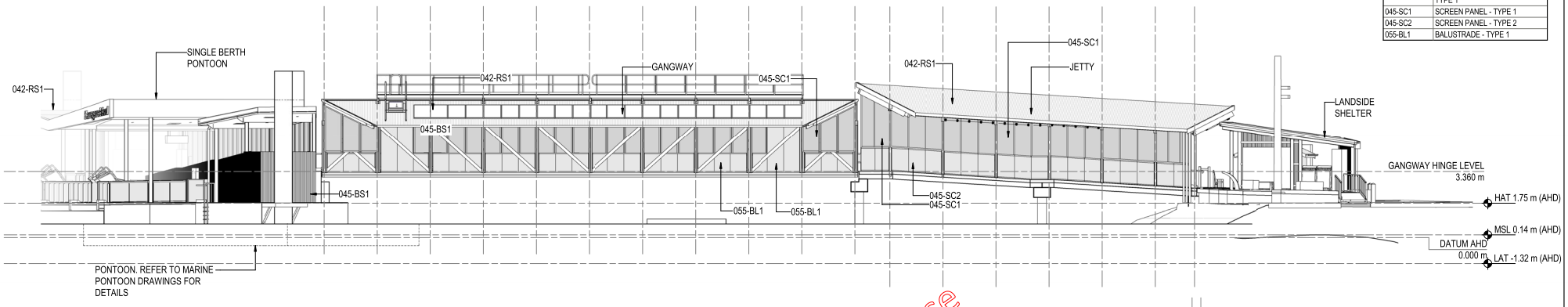
Queensland Government

File No.	467/00408
Contract. No.	CN-12653
Drawing No.	4040 6
Project No.	TMR29-130
MRM_Detail (05/14)	BN-70-1

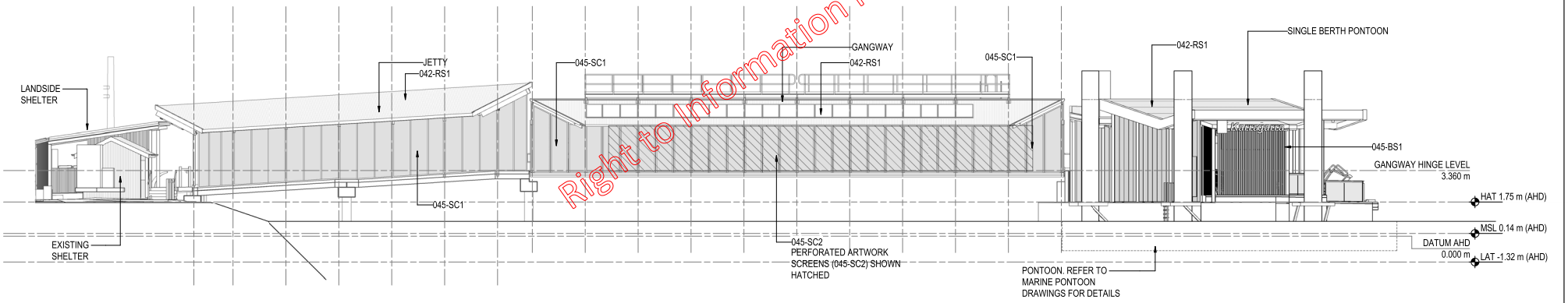
ISSUE FOR TENDER

Cardno architectus

Key Value	Keynote Text
042-RS1	ROOF SHEETING METAL - ALUMINIUM
045-BS1	ALUMINIUM BATTEN SCREEN - TYPE 1
045-SC1	SCREEN PANEL - TYPE 1
045-SC2	SCREEN PANEL - TYPE 2
055-BL1	BALUSTRADE - TYPE 1



ELEVATION 1
SCALE 1 : 100 (4012)



ELEVATION 2
SCALE 1 : 100 (4012)

TIDE DESCRIPTION

TIDAL PLANE	LEVEL (m LAT)	LEVEL (m AHD)
HAT	3.07	1.75
MHWS	2.45	1.13
MHWN	2.02	0.70
AHD	1.32	0.00
MSL	1.46	0.14
MLWN	0.89	-0.43
MLWS	0.47	-0.85
LAT	0.00	-1.32

NOTE
1. ELEVATION GENERATED WITH GANGWAY AT HORIZONTAL POSITION
2. REFER TO DRAWING 4065 FOR ANODISED COLOUR ARRANGEMENT

0 2000 4000 6000 8000 10000
SCALE 1:100

5	ISSUED FOR TENDER		14-08-20	
4	PRELIMINARY ISSUE		13-07-20	
3	PRELIMINARY DESIGN RE-ISSUE		15-01-20	
2	PRELIMINARY DESIGN ISSUE		08-11-19	
1	ISSUED FOR INTERNAL REVIEW - QS		25-10-19	
	Revisions/Descriptions	Certification	Date	Microfiled

CAD FILES: BIM 360://7905-29 SMBI Ferry Terminal Designs/46700408 - SMBI - Karragarra Island - A - Site and Jetty.rvt

Associated Job Nos
Auxiliary Drg Nos

Survey Data
Datum: GDA94
Horiz. Grid: MGA Z56
Height Origin: AHD
Survey Books:

Scales
Dimensions shown in millimetres except where shown otherwise

SOUTHERN MORETON BAY
SOUTHERN MORETON BAY ISLANDS
KARRAGARRA ISLAND

FERRY TERMINALS DESIGN

Drawn	ML
Checked	AR
Designed	AR
Design Review	AR
Date	11/08/20

ARCHITECTURAL
LANDSIDE AND JETTY
ELEVATIONS - SHEET 1

ENGINEERING CERTIFICATION (RPEQ)

ENG. AREA	NAME	SIGNATURE	NO.	DATE

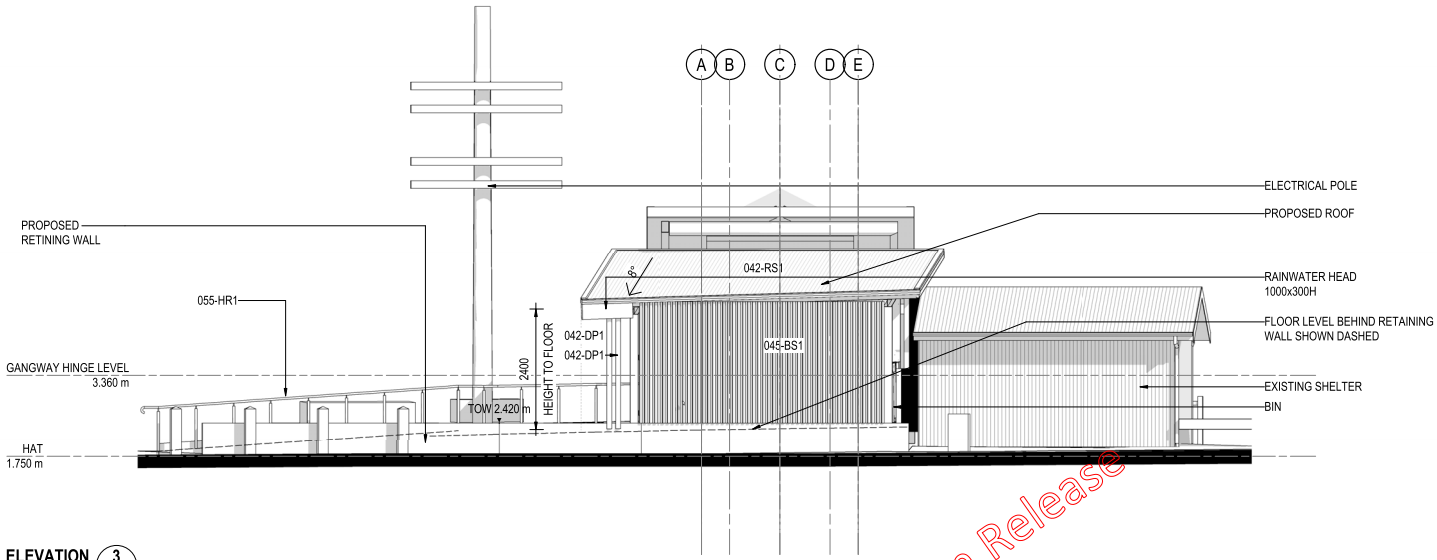
Queensland Government

File No.	467/00408
Contract. No.	CN-12653
Drawing No.	4050 5
Project No.	TMR29-130
MRM_Detail (05/14)	BN-70-1

Last Modified :- 17/09/2020 5:30:27 PM

ISSUE FOR TENDER

Cardno architectus



ELEVATION 3 / 4020
SCALE 1 : 50

Key Value	Keynote Text
042-DP1	DOWNPIPE - CIRCULAR
042-RS1	ROOF SHEETING METAL - ALUMINIUM
045-BS1	ALUMINIUM BATTEN SCREEN - TYPE 1
055-HR1	HANDRAIL - TYPE 1

TIDE DESCRIPTION

TIDAL PLANE	LEVEL (m LAT)	LEVEL (m AHD)
HAT	3.07	1.75
MHWS	2.45	1.13
MHWN	2.02	0.70
AHD	1.32	0.00
MSL	1.46	0.14
MLWN	0.89	-0.43
MLWS	0.47	-0.85
LAT	0.00	-1.32

NOTE: ELEVATION GENERATED WITH GANGWAY AT HORIZONTAL POSITION

0 1000 2000 3000 4000 5000
SCALE 1:50

3	REVISED ISSUE FOR TENDER		31-08-20	
2	ISSUED FOR TENDER		14-08-20	
1	PRELIMINARY ISSUE		13-07-20	
	Revisions/Descriptions	Certification	Date	Microfiled

CAD FILES: BIM 360://7905-29 SMBI Ferry Terminal Designs/46700408 - SMBI - Karragarra Island - A - Site and Jetty.rvt

Last Modified :- 31/08/2020 6:40:04 PM

Associated Job Nos
Auxiliary Drg Nos

Survey Data: Datum GDA94; Horiz. Grid MGA Z56; Height Origin; Survey Books

Scales
Dimensions shown in millimetres except where shown otherwise

SOUTHERN MORETON BAY
SOUTHERN MORETON BAY ISLANDS
KARRAGARRA ISLAND

FERRY TERMINALS DESIGN

Drawn	ML
Checked	AR
Designed	AR
Design Review	AR
Date	11/08/20

ARCHITECTURAL
LANDSIDE AND JETTY
ELEVATIONS - SHEET 2

ENGINEERING CERTIFICATION (RPEQ)

ENG. AREA	NAME	SIGNATURE	NO.	DATE

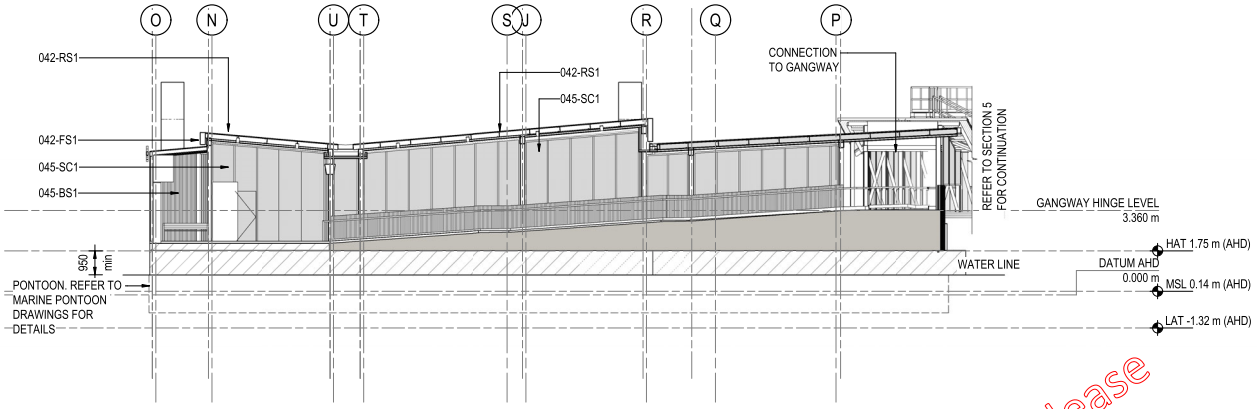
Queensland Government

File No.	467/00408
Contract. No.	CN-12653
Drawing No.	4051 3
Project No.	TMR29-130
MRM_Detail (05/14)	BN-70-1

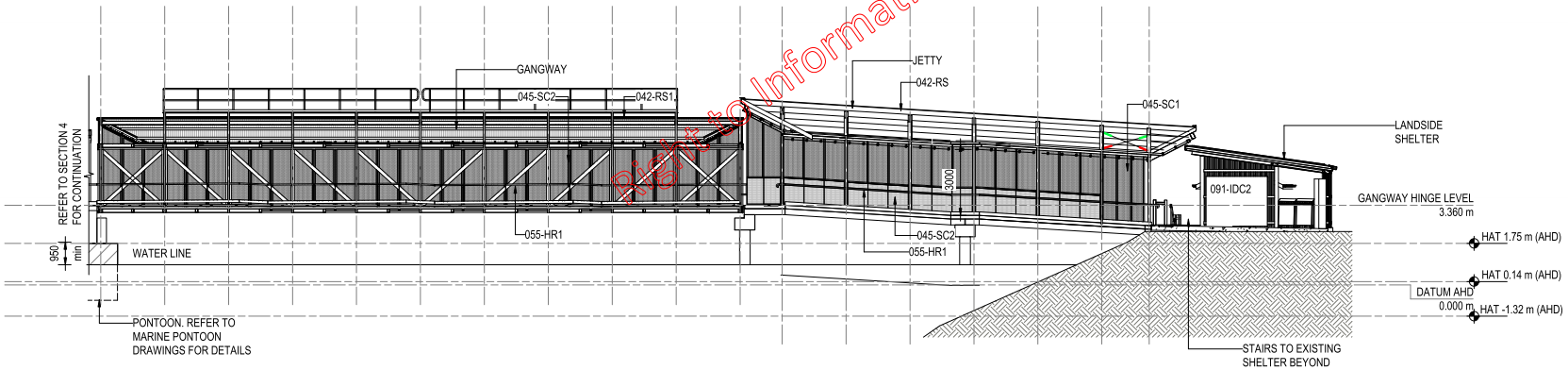
ISSUE FOR TENDER

Cardno architectus

Key Value	Keynote Text
042-FS1	ROOF - FASCIA - TYPE 1
042-RS	ROOF SHEETING METAL
042-RS1	ROOF SHEETING METAL - ALUMINIUM
045-BS1	ALUMINIUM BATTEN SCREEN - TYPE 1
045-SC1	SCREEN PANEL - TYPE 1
045-SC2	SCREEN PANEL - TYPE 2
055-HR1	HANDRAIL - TYPE 1
091-IDC2	TRANSLINK INFORMATION DISPLAY CABINET - 2 DOORS



SECTION 4
SCALE 1 : 100 (4012)



SECTION 5
SCALE 1 : 100 (4020)

TIDE DESCRIPTION

TIDAL PLANE	LEVEL (m LAT)	LEVEL (m AHD)
HAT	3.07	1.75
MHWS	2.45	1.13
MHWN	2.02	0.70
AHD	1.32	0.00
MSL	1.46	0.14
MLWN	0.89	-0.43
MLWS	0.47	-0.85
LAT	0.00	-1.32

NOTE: SECTION GENERATED WITH GANGWAY AT HORIZONTAL POSITION

0 1000 2000 3000 4000 5000
SCALE 1:50

4	ISSUED FOR TENDER		14-08-20	
3	PRELIMINARY ISSUE		13-07-20	
2	PD REVISED LAYOUT ISSUE		14-04-20	
1	PRELIMINARY DESIGN RE-ISSUE		15-01-20	
	Revisions/Descriptions	Certification	Date	Microfiled

CAD FILES: BIM 360://7905-29 SMBI Ferry Terminal Designs/46700408 - SMBI - Karragarra Island - A - Site and Jetty.rvt

Associated Job Nos
Auxiliary Drg Nos

Survey Data: Datum GDA94; Horiz. Grid MGA Z56; Height Origin AHD; Survey Books

Scales
Dimensions shown in millimetres except where shown otherwise

SOUTHERN MORETON BAY
SOUTHERN MORETON BAY ISLANDS
KARRAGARRA ISLAND

FERRY TERMINALS DESIGN

Drawn ML
Checked AR
Designed AR
Design Review AR
Date 11/08/20

ARCHITECTURAL
LANDSIDE AND JETTY
SECTIONS - SHEET 1

ENGINEERING CERTIFICATION (RPEQ)

ENG. AREA	NAME	SIGNATURE	NO.	DATE

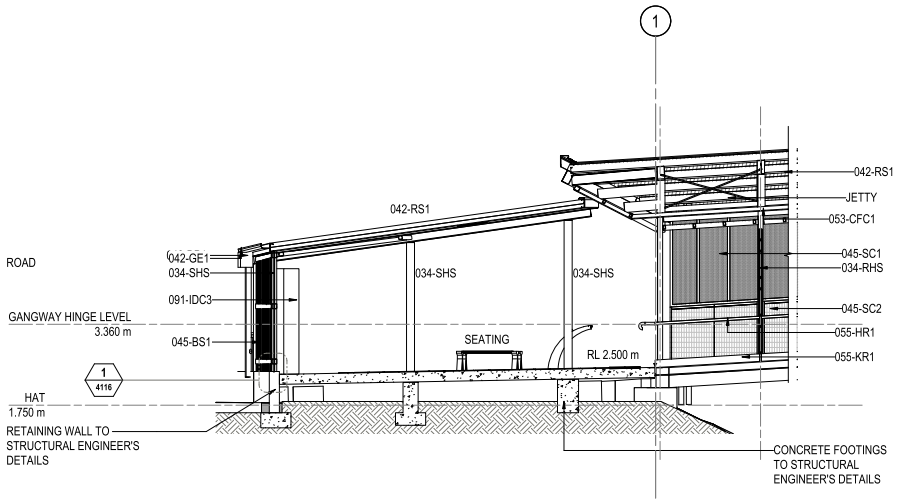
Queensland Government

File No.	467/00408
Contract. No.	CN-12653
Drawing No.	4052 4
Project No.	TMR29-130
MRM_Detail (05/14)	BN-70-1

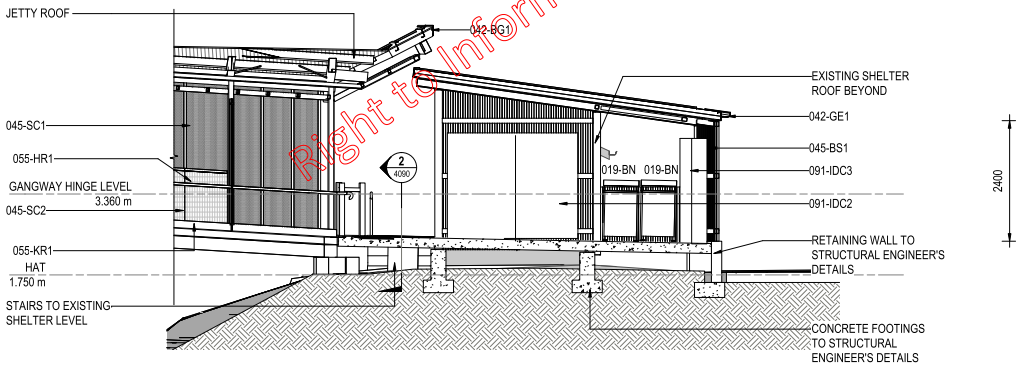
Last Modified: - 17/09/2020 6:30:38 PM

ISSUE FOR TENDER

Cardno architectus



SECTION 1 / 4020
SCALE 1 : 50



SECTION 2 / 4020
SCALE 1 : 50

Key Value	Keynote Text
019-BN	BINS
034-RHS	RECTANGULAR HOLLOW SECTION
034-SHS	SQUARE HOLLOW SECTION
042-BG1	ROOF CAPPING - BARGE - TYPE 1
042-DP1	DOWNPIPE - CIRCULAR
042-GE1	GUTTER - EAVES
042-RS1	ROOF SHEETING METAL - ALUMINIUM
045-BS1	ALUMINIUM BATTEN SCREEN - TYPE 1
045-SC1	SCREEN PANEL - TYPE 1
045-SC2	SCREEN PANEL - TYPE 2
053-CFC1	CFC CEILING 1
055-HR1	HANDRAIL - TYPE 1
055-KR1	KERB RAIL - TYPE 1
091-IDC2	TRANSLINK INFORMATION DISPLAY CABINET - 2 DOORS
091-IDC3	TRANSLINK INFORMATION DISPLAY CABINET - 3 DOORS

TIDE DESCRIPTION

TIDAL PLANE	LEVEL (m LAT)	LEVEL (m AHD)
HAT	3.07	1.75
MHWS	2.45	1.13
MHWN	2.02	0.70
AHD	1.32	0.00
MSL	1.46	0.14
MLWN	0.89	-0.43
MLWS	0.47	-0.85
LAT	0.00	-1.32

NOTE: SECTION GENERATED WITH GANGWAY AT HORIZONTAL POSITION

0 1000 2000 3000 4000 5000
SCALE 1:50

2	ISSUED FOR TENDER		14-08-20	
1	PRELIMINARY ISSUE		13-07-20	
	Revisions/Descriptions	Certification	Date	Microfiled

Last Modified :- 17/09/2020 6:30:42 PM

CAD FILES | BIM 360://7905-29 SMBI Ferry Terminal Designs/46700408 - SMBI - Karragarra Island - A - Site and Jetty.rvt

Associated Job Nos

Auxiliary Drg Nos

Survey Data: Datum GDA94; Horiz. Grid MGA Z56; Height Origin; Survey Books

Scales: Dimensions shown in millimetres except where shown otherwise

SOUTHERN MORETON BAY
SOUTHERN MORETON BAY ISLANDS
KARRAGARRA ISLAND

FERRY TERMINALS DESIGN

Drawn ML
Checked AR
Designed AR
Design Review AR
Date 11/08/20

ARCHITECTURAL
LANDSIDE AND JETTY
SECTIONS - SHEET 2

ENGINEERING CERTIFICATION (RPEQ)

ENG. AREA	NAME	SIGNATURE	NO.	DATE

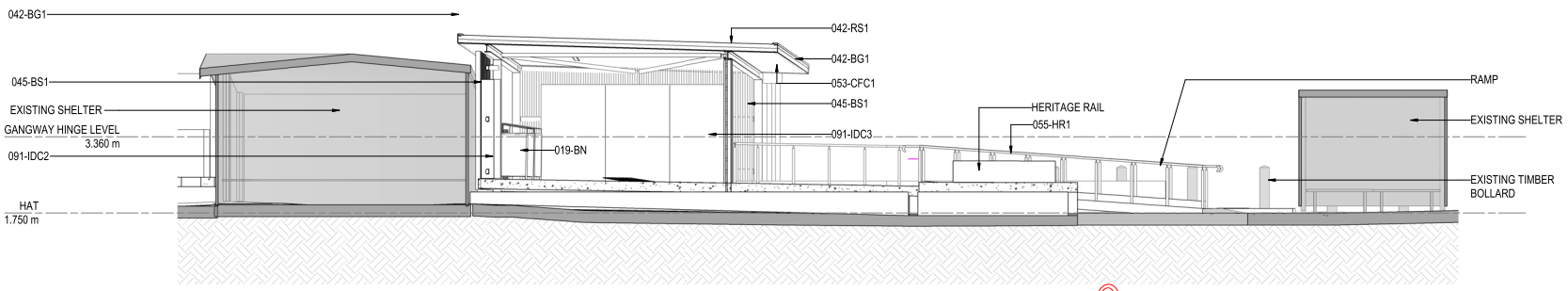
Queensland Government

File No.	467/00408
Contract. No.	CN-12653
Drawing No.	4053 2
Project No.	TMR29-130
MRM_Detail (05/14)	BN-70-1

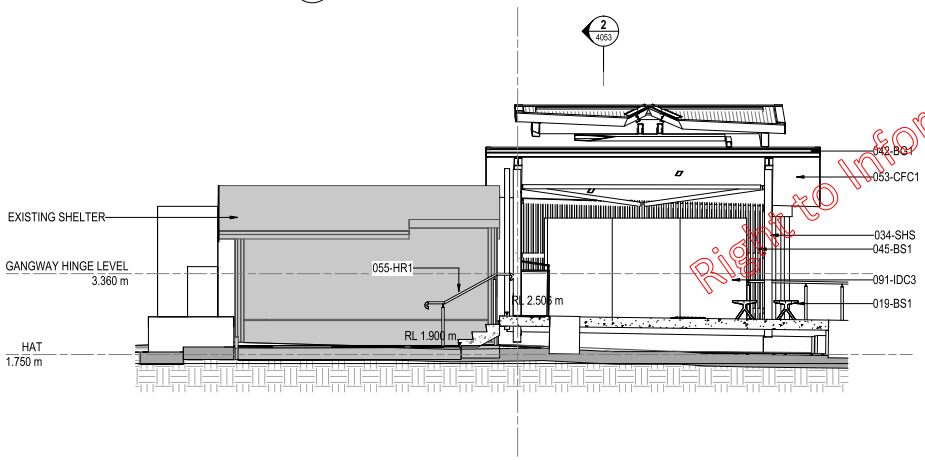
ISSUE FOR TENDER

Cardno architectus

Key Value	Keynote Text
019-BN	BINS
019-BS1	BENCH SEATING TYPE 1
034-SHS	SQUARE HOLLOW SECTION
042-BG1	ROOF CAPPING - BARGE - TYPE 1
042-RS1	ROOF SHEETING METAL - ALUMINIUM
045-BS1	ALUMINIUM BATTEN SCREEN - TYPE 1
053-CFC1	CFC CEILING 1
055-HR1	HANDRAIL - TYPE 1
091-IDC2	TRANSLINK INFORMATION DISPLAY CABINET - 2 DOORS
091-IDC3	TRANSLINK INFORMATION DISPLAY CABINET - 3 DOORS



SECTION 1
SCALE 1 : 50 (4020)



SECTION 2
SCALE 1 : 50 (4020)

TIDE DESCRIPTION

TIDAL PLANE	LEVEL (m LAT)	LEVEL (m AHD)
HAT	3.07	1.75
MHWS	2.45	1.13
MHWN	2.02	0.70
AHD	1.32	0.00
MSL	1.46	0.14
MLWN	0.89	-0.43
MLWS	0.47	-0.85
LAT	0.00	-1.32

NOTE: SECTION GENERATED WITH GANGWAY AT HORIZONTAL POSITION

0 1000 2000 3000 4000 5000
SCALE 1:50

1	ISSUED FOR TENDER		14-08-20	
	Revisions/Descriptions	Certification	Date	Microfiled

CAD FILES | BIM 360://7905-29 SMBI Ferry Terminal Designs/46700408 - SMBI - Karragarra Island - A - Site and Jetty.rvt

Last Modified :- 17/09/2020 6:30:47 PM

Associated Job Nos	
Auxiliary Drg Nos	
Survey Data	
Datum	GDA94
Horiz. Grid	MGA Z56
Height Origin	
Survey Books	
Scales	Dimensions shown in millimetres except where shown otherwise

SOUTHERN MORETON BAY
SOUTHERN MORETON BAY ISLANDS
KARRAGARRA ISLAND

FERRY TERMINALS DESIGN

Drawn	Author
Checked	Checker
Designed	Designer
Design Review Designer	
Date	11/08/20

ARCHITECTURAL
LANDSIDE AND JETTY
SECTIONS - SHEET 3

ENGINEERING CERTIFICATION (RPEQ)

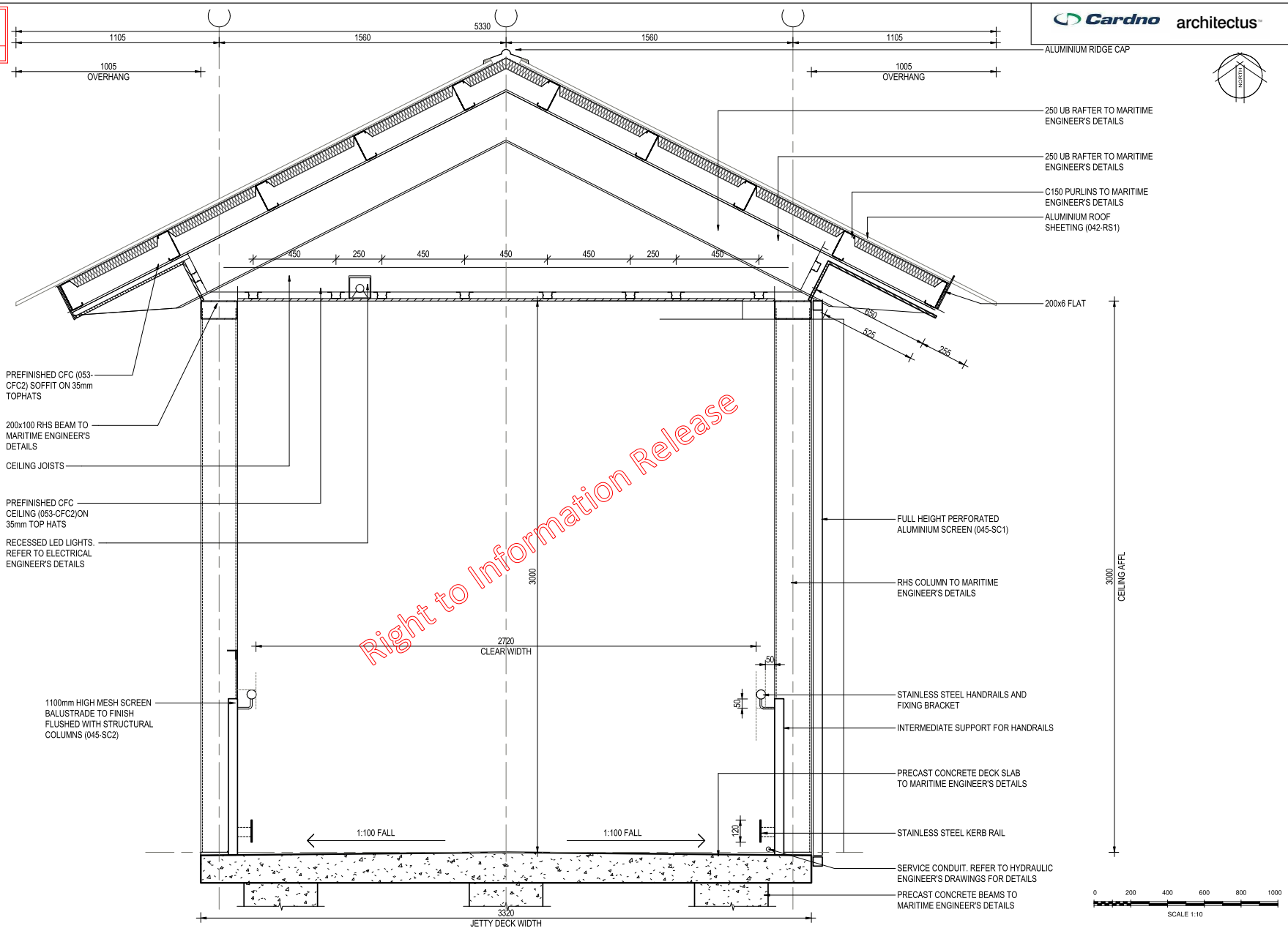
ENG. AREA	NAME	SIGNATURE	NO.	DATE

Queensland Government

File No.	467/00408
Contract. No.	CN-12653
Drawing No.	4054 1
Project No.	TMR29-130
MRM_Detail (05/14)	BN-70-1

ISSUE FOR TENDER

Cardno architectus



2	REVISED ISSUE FOR TENDER		31-08-20	
1	ISSUED FOR TENDER		14-08-20	
	Revisions/Descriptions	Certification	Date	Microfiled

CAD FILES: BIM 360://7905-29 SMBI Ferry Terminal Designs/46700408 - SMBI - Karragarra Island - A - Site and Jetty.rvt

Last Modified :- 31/08/2020 6:40:15 PM

Associated Job Nos

Auxiliary Drg Nos

Survey Data: Datum GDA94; Horiz. Grid MGA Z56; Height Origin; Survey Books

Scales: Dimensions shown in millimetres except where shown otherwise

SOUTHERN MORETON BAY
SOUTHERN MORETON BAY ISLANDS
KARRAGARRA ISLAND

FERRY TERMINALS DESIGN

Drawn	ML
Checked	AR
Designed	AR
Design Review	AR
Date	11/08/20

ARCHITECTURAL
LANDSIDE AND JETTY
SECTIONS - SHEET 4

ENGINEERING CERTIFICATION (RPEQ)

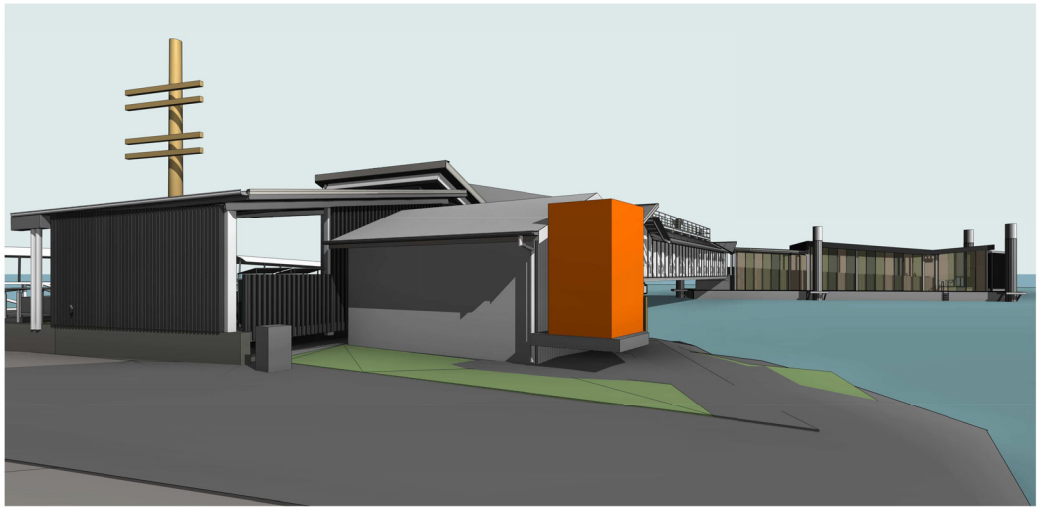
ENG. AREA	NAME	SIGNATURE	NO.	DATE

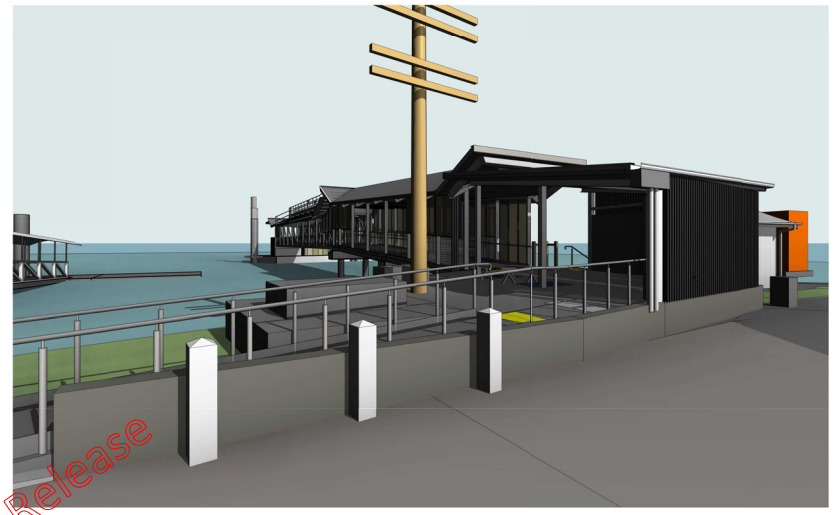
Queensland Government

File No.	467/00408
Contract. No.	CN-12653
Drawing No.	4055 2
Project No.	TMR29-130
MRM_Detail (05/14)	BN-70-1

ISSUE FOR TENDER

Cardno architectus





6	REVISED ISSUE FOR TENDER		31-08-20	
5	ISSUED FOR TENDER		14-08-20	
4	REVISED PERSPECTIVES		16-07-20	
3	PRELIMINARY DESIGN RE-ISSUE		15-01-20	
2	PRELIMINARY DESIGN ISSUE		08-11-19	
1	ISSUED FOR INTERNAL REVIEW - QS		25-10-19	
	Revisions/Descriptions	Certification	Date	Microfiled

CAD FILES: BIM 360://7905-29 SMBI Ferry Terminal Designs/46700408 - SMBI - Karragarra Island - A - Site and Jetty.rvt

Associated Job Nos

Auxiliary Drg Nos

Survey Data

Datum	GDA94
Horiz. Grid	MGA Z56
Height Origin	AHD
Survey Books	

Scales

Dimensions shown in millimetres except where shown otherwise

SOUTHERN MORETON BAY
SOUTHERN MORETON BAY ISLANDS
KARRAGARRA ISLAND

FERRY TERMINALS DESIGN

Drawn	ML
Checked	AR
Designed	AR
Design Review	AR
Date	11/08/20

ARCHITECTURAL
LANDSIDE AND JETTY
PERSPECTIVES

ENGINEERING CERTIFICATION (RPEQ)

ENG. AREA	NAME	SIGNATURE	NO.	DATE

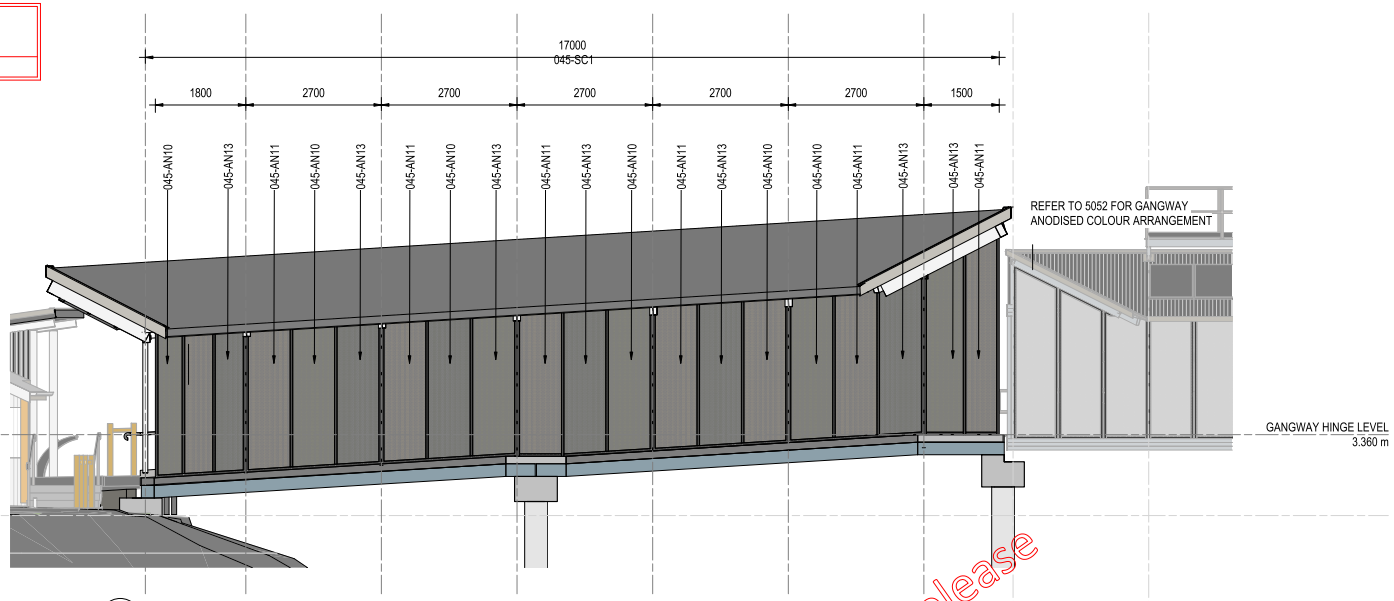
Queensland Government

File No.	467/00408
Contract. No.	CN-12653
Drawing No.	4060 | 6
Project No.	TMR29-130
MRM_Detail (05/14)	BN-70-1

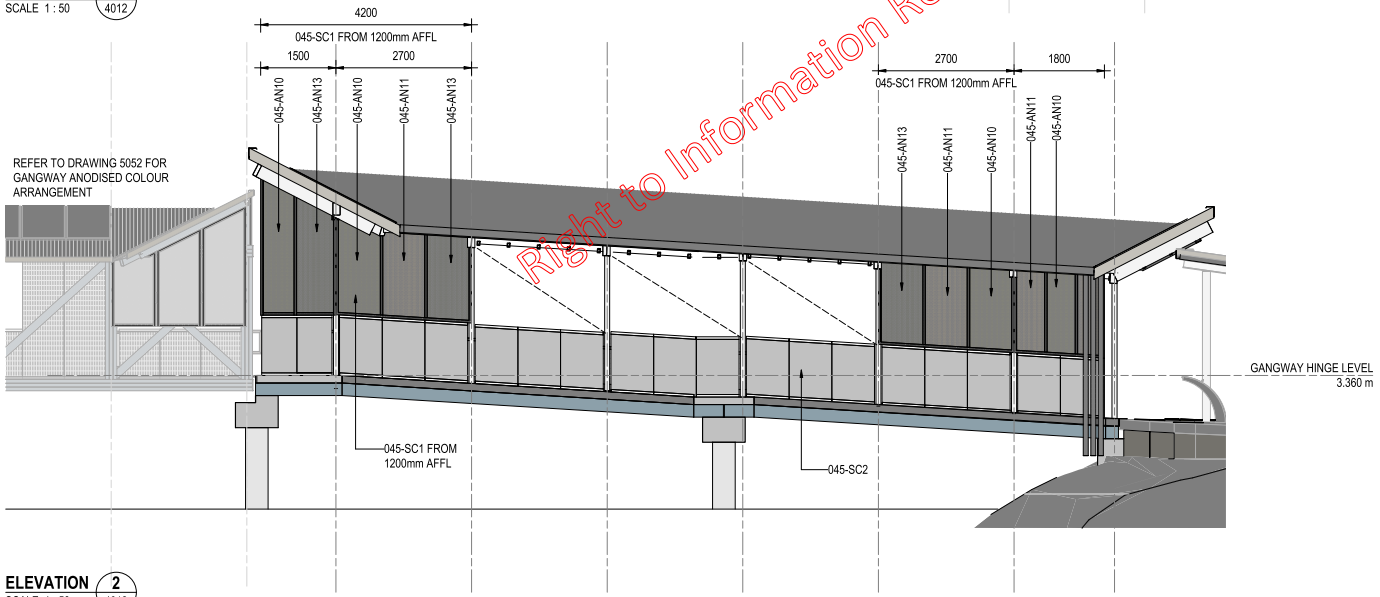
Last Modified :- 31/08/2020 6:39:59 PM

ISSUE FOR TENDER

Cardno architectus



ELEVATION 1 / 4012
SCALE 1 : 50



ELEVATION 2 / 4012
SCALE 1 : 50

Key Value	Keynote Text
045-AN10	ANODISED PANEL - TYPE 10
045-AN11	ANODISED PANEL - TYPE 11
045-AN13	
045-SC1	SCREEN PANEL - TYPE 1
045-SC2	SCREEN PANEL - TYPE 2

NOTE:

1. DRAWING TO BE PRINTED IN COLOUR
2. REFER TO ARCHITECTURAL SCHEDULE FOR ANODISED AND SCREEN DETAIL

0 1000 2000 3000 4000 5000
SCALE 1:50

1	ISSUED FOR TENDER		14-08-20	
	Revisions/Descriptions	Certification	Date	Microfiled

CAD FILES | BIM 360://7905-29 SMBI Ferry Terminal Designs/46700408 - SMBI - Karragarra Island - A - Site and Jetty.rvt

Last Modified :- 17/09/2020 6:31:31 PM

Associated Job Nos
Auxiliary Drg Nos

Survey Data
Datum: GDA94
Horiz. Grid: MGA Z56
Height Origin:
Survey Books:

Scales
Dimensions shown in millimetres except where shown otherwise

SOUTHERN MORETON BAY
SOUTHERN MORETON BAY ISLANDS
KARRAGARRA ISLAND

FERRY TERMINALS DESIGN

Drawn: Author
Checked: Checker
Designed: Designer
Design Review: Designer
Date: 11/08/20

ARCHITECTURAL
LANDSIDE AND JETTY
SCREEN ELEVATIONS

ENGINEERING CERTIFICATION (RPEQ)

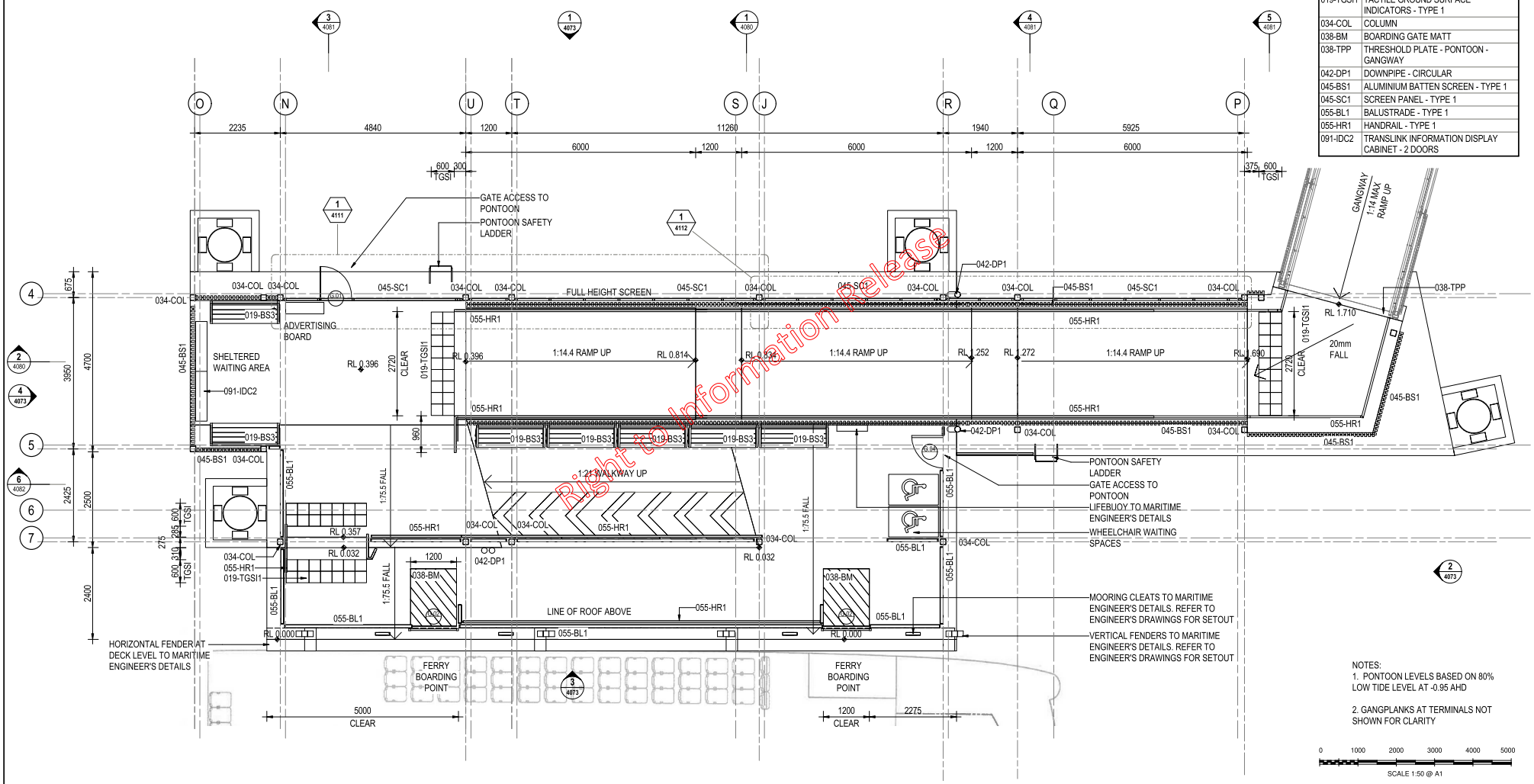
ENG. AREA	NAME	SIGNATURE	NO.	DATE

Queensland Government

File No.	467/00408
Contract. No.	CN-12653
Drawing No.	4065 | 1
Project No.	TMR29-130
MRM_Detail (05/14)	BN-70-1

ISSUE FOR TENDER

Cardno architectus



7	REVISED ISSUE FOR TENDER		31-08-20	
6	ISSUED FOR TENDER		14-08-20	
5	PRELIMINARY ISSUE		13-07-20	
4	PRELIMINARY ISSUE		08-07-20	
3	PD REVISED LAYOUT ISSUE		14-04-20	
2	PRELIMINARY DESIGN RE-ISSUE		15-01-20	
1	PRELIMINARY DESIGN ISSUE		08-11-19	
	Revisions/Descriptions	Certification	Date	Microfiled

Last Modified - 10/8/2020 12:25:25 PM

CAD FILES | BIM 360://7905-29 SMBI Ferry Terminal Designs/46700408 - SMBI - Karragarra Island - A - Pontoon_Single Berth.rvt

Associated Job Nos

Auxiliary Drg Nos

Survey Data: Datum GDA94; Horiz. Grid MGA Z56; Height Origin AHD; Survey Books

Scales

Dimensions shown in millimetres except where shown otherwise

SOUTHERN MORETON BAY
SOUTHERN MORETON BAY ISLANDS

FERRY TERMINALS DESIGN

Drawn ML | Checked AR | Designed AR | Design Review AR | Date 11.08.20

ARCHITECTURAL PONTOON LAYOUT PLAN

ENGINEERING CERTIFICATION (RPEQ)

ENG. AREA	NAME	SIGNATURE	NO.	DATE

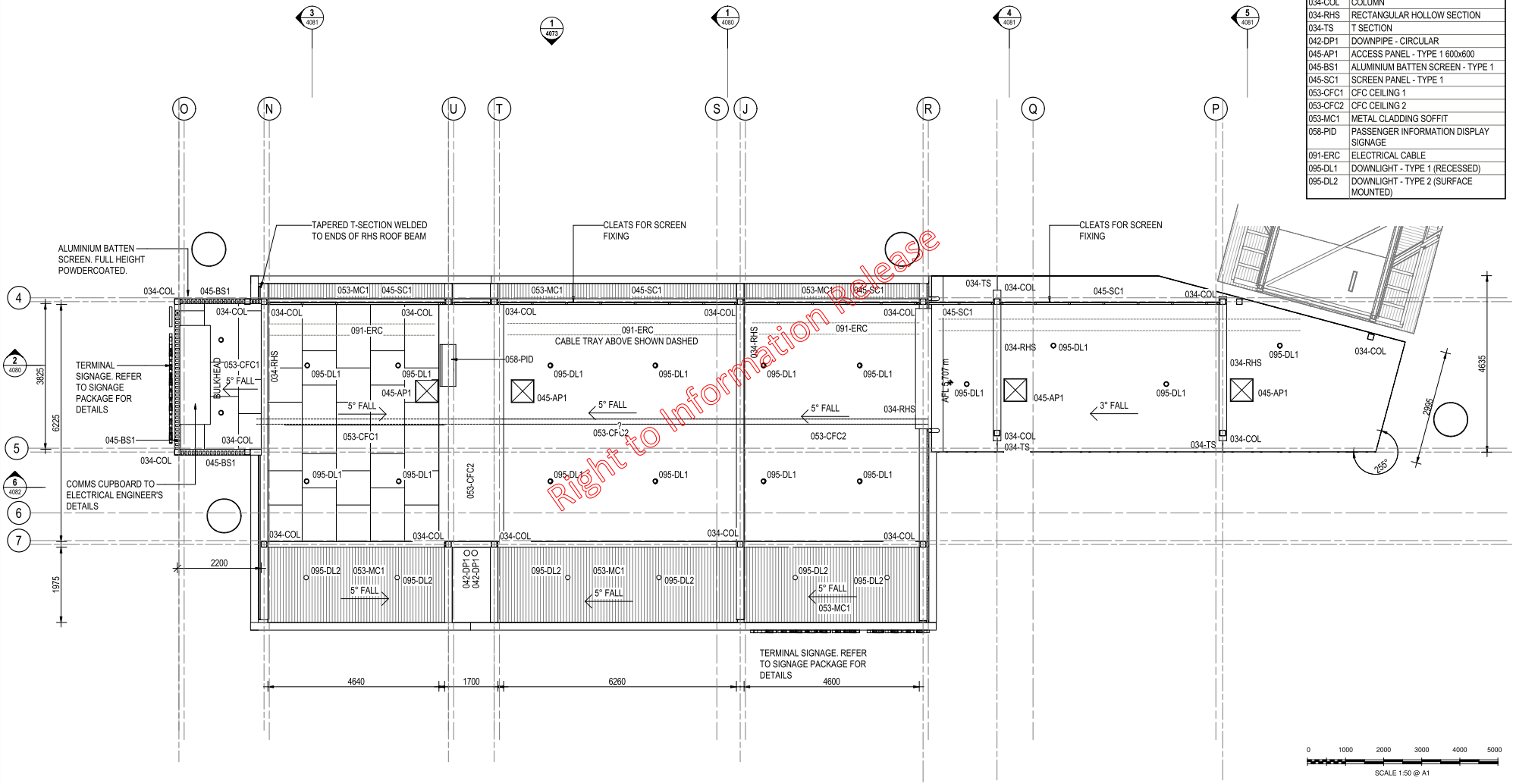
Queensland Government

File No.	467/00408
Contract. No.	CN-12653
Drawing No.	4070 | 7
Project No.	TMR29-130
MRM_Detail (05/14)	BN-70-1

ISSUE FOR TENDER

Cardno architectus

LEGEND	
Code	**Description**
034-COL	COLUMN
034-RHS	RECTANGULAR HOLLOW SECTION
034-TS	T SECTION
042-DP1	DOWNPIPE - CIRCULAR
045-AP1	ACCESS PANEL - TYPE 1 600x600
045-BS1	ALUMINIUM BATTEN SCREEN - TYPE 1
045-SC1	SCREEN PANEL - TYPE 1
053-CFC1	CFC CEILING 1
053-CFC2	CFC CEILING 2
053-MC1	METAL CLADDING SOFFIT
058-PID	PASSENGER INFORMATION DISPLAY SIGNAGE
091-ERC	ELECTRICAL CABLE
095-DL1	DOWNLIGHT - TYPE 1 (RECESSED)
095-DL2	DOWNLIGHT - TYPE 2 (SURFACE MOUNTED)



0 1000 2000 3000 4000 5000

SCALE 1:50 @ A1

4	ISSUED FOR TENDER		14-08-20
3	PRELIMINARY ISSUE		13-07-20
2	PRELIMINARY DESIGN RE-ISSUE		15-01-20
1	PRELIMINARY DESIGN ISSUE		08-11-19
	Revisions/Descriptions	Certification	Date

Microfiled

Associated Job Nos

Auxiliary Drg Nos

Survey Data	
Datum	GDA94
Horiz. Grid	MGA Z56
Height Origin	AHD
Survey Books	

Scales

Dimensions shown in millimetres except where shown otherwise

SOUTHERN MORETON BAY
SOUTHERN MORETON BAY ISLANDS
KARRAGARRA ISLAND

FERRY TERMINALS DESIGN

Drawn	ML
Checked	AR
Designed	AR
Design Review	
Date	14-08-20

ARCHITECTURAL
PONTOON
REFLECTED CEILING PLAN

ENGINEERING CERTIFICATION (RPEQ)

ENG. AREA	NAME	SIGNATURE	NO.	DATE

Queensland Government

File No.	467/00408
Contract. No.	CN-12653
Drawing No.	4071 | 4
Project No.	TMR29-130
MRM_Detail (05/14)	BN-70-1

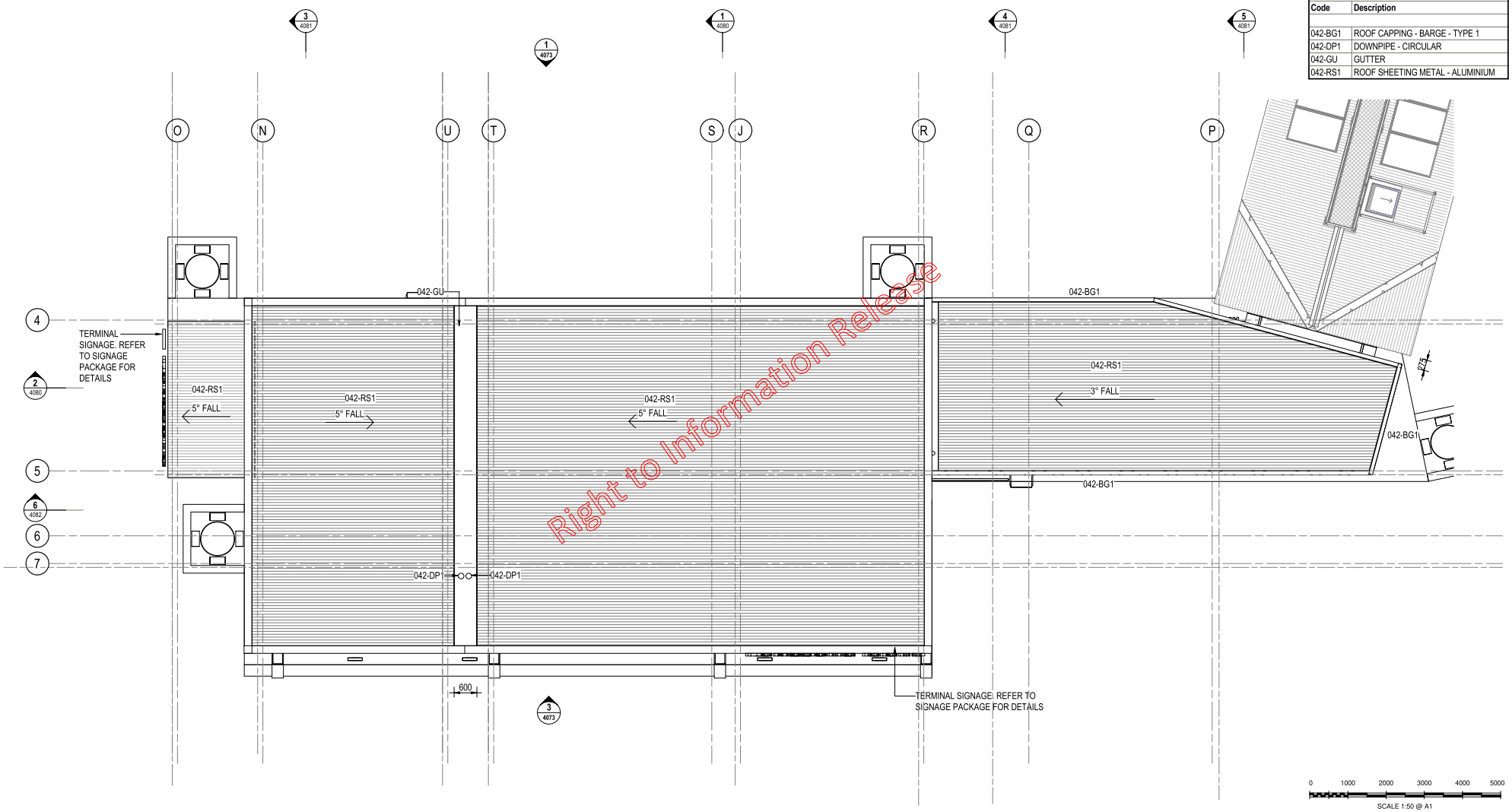
CAD FILES | BIM 360://7905-29 SMBI Ferry Terminal Designs/46700408 - SMBI - Karragarra Island - A - Pontoon_Single Berth.rvt

Last Modified :- 17/09/2020 6:04:39 PM

ISSUE FOR TENDER

Cardno architectus

LEGEND	
Code	**Description**
042-BG1	ROOF CAPPING - BARGE - TYPE 1
042-DP1	DOWNPIPE - CIRCULAR
042-GU	GUTTER
042-RS1	ROOF SHEETING METAL - ALUMINIUM



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SCALE 1:50 @ A1

	Revisions/Descriptions	Certification	Date	Microfiled
4	ISSUED FOR TENDER		14-08-20	
3	PRELIMINARY ISSUE		13-07-20	
2	PRELIMINARY DESIGN RE-ISSUE		15-01-20	
1	PRELIMINARY DESIGN ISSUE		08-11-19	

CAD FILES: BIM 360://7905-29 SMBI Ferry Terminal Designs/46700408 - SMBI - Karragarra Island - A - Pontoon_Single Berth.rvt

Last Modified :- 17/09/2020 6:04:34 PM

Associated Job Nos

Auxiliary Drg Nos

Survey Data	
Datum	GDA94
Horiz. Grid	MGA Z56
Height Origin	AHD
Survey Books	

Scales

Dimensions shown in millimetres except where shown otherwise

SOUTHERN MORETON BAY
SOUTHERN MORETON BAY ISLANDS
KARRAGARRA ISLAND

FERRY TERMINALS DESIGN

Drawn	ML
Checked	AR
Designed	AR
Design Review	
Date	14-08-20

ARCHITECTURAL
PONTOON
ROOF PLAN

ENGINEERING CERTIFICATION (RPEQ)

ENG. AREA	NAME	SIGNATURE	NO.	DATE

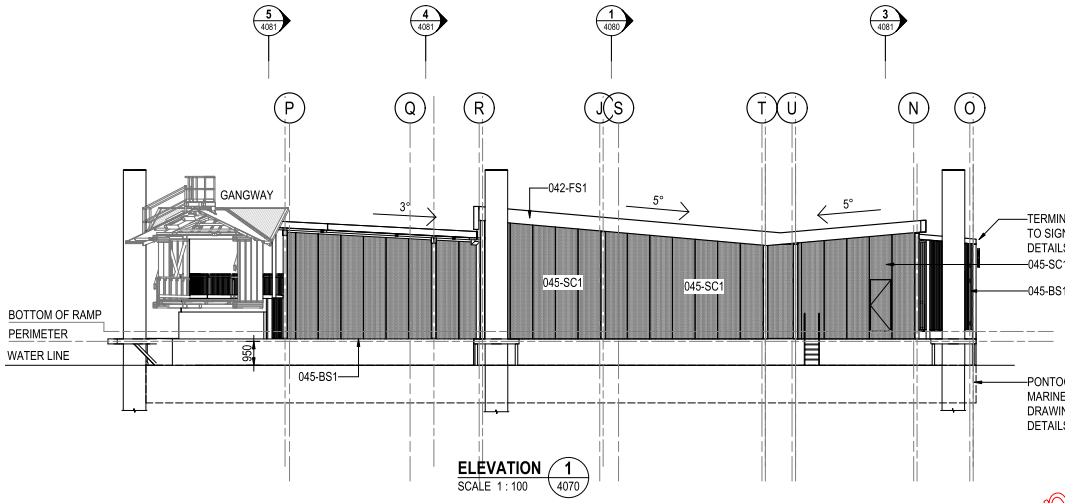
Queensland Government

File No.	467/00408
Contract. No.	CN-12653
Drawing No.	4072 4
Project No.	TMR29-130
MRM_Detail (05/14)	BN-70-1

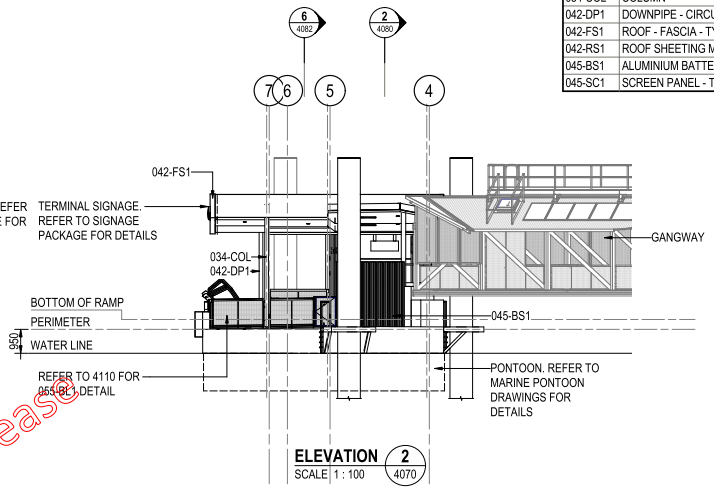
ISSUE FOR TENDER

Cardno architectus

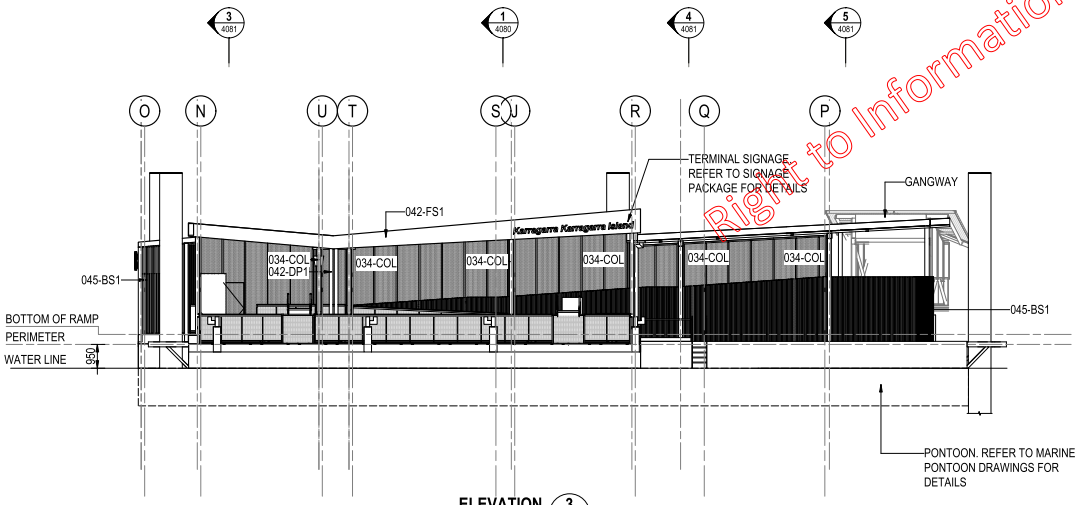
LEGEND	
Code	**Description**
034-COL	COLUMN
042-DP1	DOWNPIPE - CIRCULAR
042-FS1	ROOF - FASCIA - TYPE 1
042-RS1	ROOF SHEETING METAL - ALUMINIUM
045-BS1	ALUMINIUM BATTEN SCREEN - TYPE 1
045-SC1	SCREEN PANEL - TYPE 1



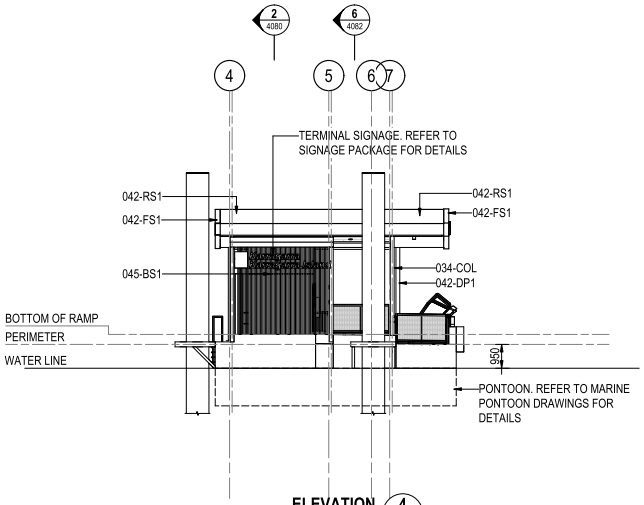
ELEVATION 1 (4070)
SCALE 1 : 100



ELEVATION 2 (4070)
SCALE 1 : 100



ELEVATION 3 (4070)
SCALE 1 : 100



ELEVATION 4 (4070)
SCALE 1 : 100

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SCALE 1:100 @ A1

5	REVISED ISSUE FOR TENDER		31-08-20	
4	ISSUED FOR TENDER		14-08-20	
3	PRELIMINARY ISSUE		13-07-20	
2	PRELIMINARY DESIGN RE-ISSUE		15-01-20	
1	PRELIMINARY DESIGN ISSUE		08-11-19	
	Revisions/Descriptions	Certification	Date	Microfiled

Last Modified - 10/9/2020 12:24:11 PM

CAD FILES | BIM 360://7905-29 SMBI Ferry Terminal Designs/46700408 - SMBI - Karragarra Island - A - Pontoon_Single Berth.rvt

Associated Job Nos

Auxiliary Drg Nos

Survey Data	
Datum	GDA94
Horiz. Grid	MGA Z56
Height Origin	AHD
Survey Books	

Scales

Dimensions shown in millimetres except where shown otherwise

SOUTHERN MORETON BAY
SOUTHERN MORETON BAY ISLANDS

FERRY TERMINALS DESIGN

Drawn	ML
Checked	AR
Designed	AR
Design Review	AR
Date	11.08.20

ARCHITECTURAL PONTOON ELEVATIONS

ENGINEERING CERTIFICATION (RPEQ)

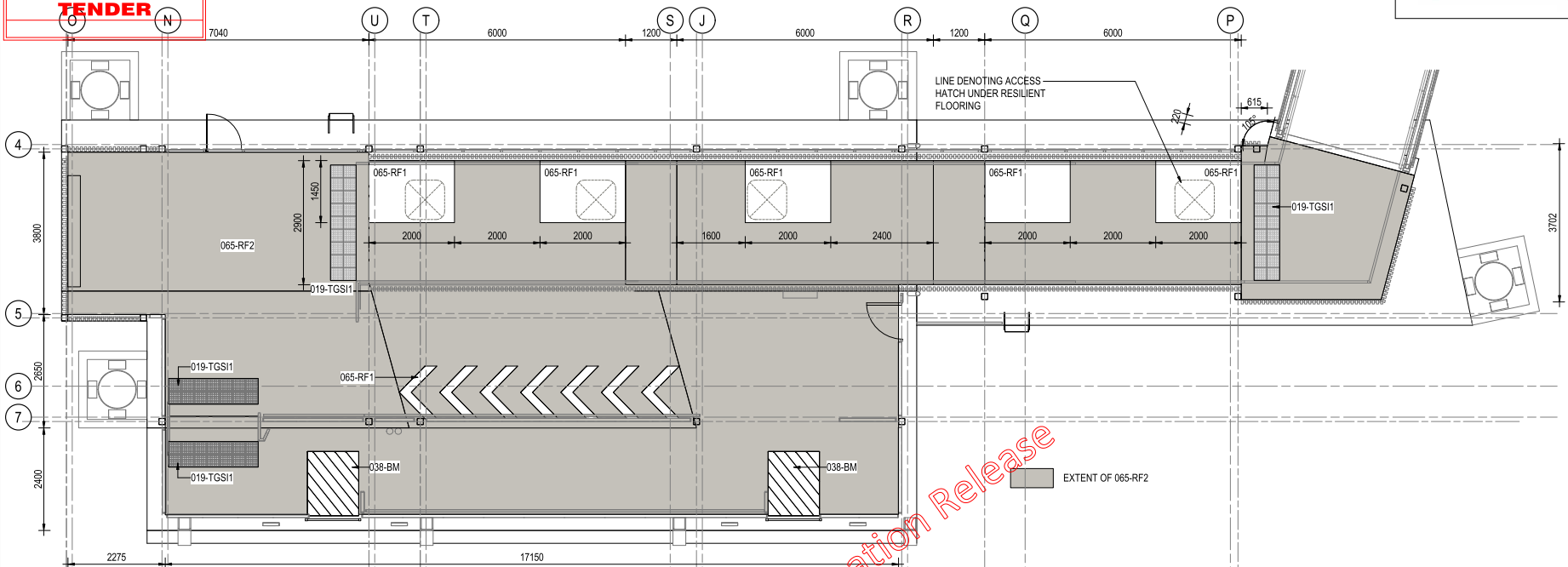
ENG. AREA	NAME	SIGNATURE	NO.	DATE

Queensland Government

File No.	467/00408
Contract. No.	CN-12653
Drawing No.	4073 5
Project No.	TMR29-130
MRM_Detail (05/14)	BN-70-1

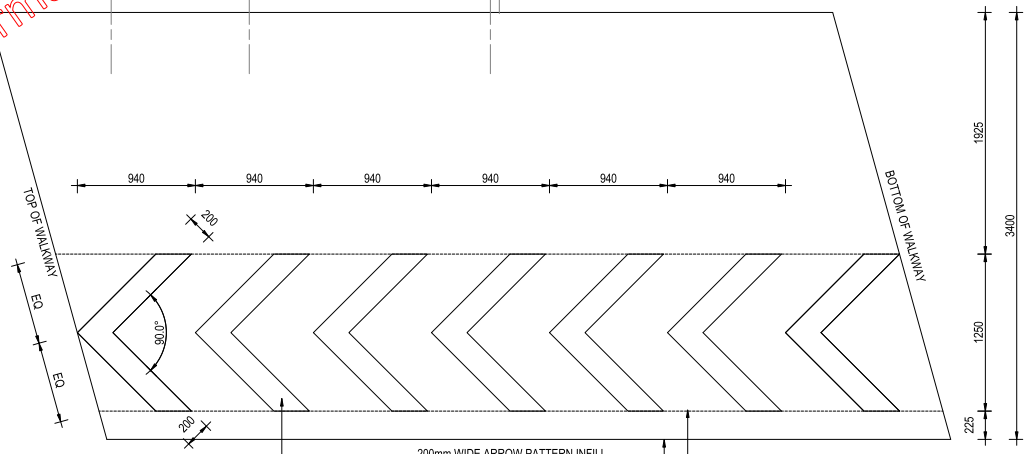
ISSUE FOR TENDER

Cardno architectus



FINISHES PLAN
SCALE 1 : 50

LEGEND	
Code	**Description**
019-TGSI1	TACTILE GROUND SURFACE INDICATORS - TYPE 1
038-BM	BOARDING GATE MATT
065-RF1	RESILIENT FLOORING - TYPE 1
065-RF2	RESILIENT FLOORING - TYPE 2



DETAIL 2 — 09.200
SCALE 1 : 20

0 500 1000 1500 2000 2500
SCALE 1:25 @ A1
0 1000 2000 3000 4000 5000
SCALE 1:50 @ A1

1	ISSUED FOR TENDER		14-08-20	
	Revisions/Descriptions	Certification	Date	Microfiled

Last Modified :- 17/09/2020 6:04:49 PM

CAD FILES | BIM 360://7905-29 SMBI Ferry Terminal Designs/46700408 - SMBI - Karragarra Island - A - Pontoon_Single Berth.rvt

Associated Job Nos
Auxiliary Drg Nos

Survey Data
Datum: GDA94
Horiz. Grid: MGA Z56
Height Origin: AHD
Survey Books:

Scales
Dimensions shown in millimetres except where shown otherwise

SOUTHERN MORETON BAY
SOUTHERN MORETON BAY ISLANDS
KARRAGARRA ISLAND

FERRY TERMINALS DESIGN

Drawn: ML
Checked: AR
Designed: AR
Design Review:
Date: 14-08-20

ARCHITECTURAL
PONTOON
FINISHES PLAN

ENGINEERING CERTIFICATION (RPEQ)

ENG. AREA	NAME	SIGNATURE	NO.	DATE

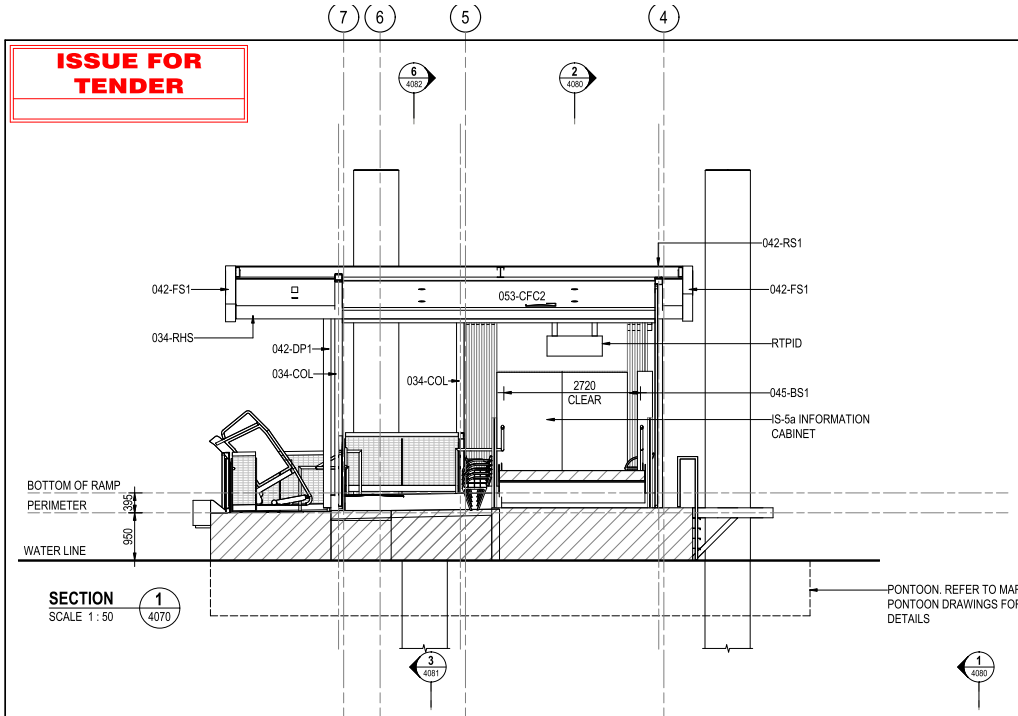
Queensland Government

File No.	467/00408
Contract. No.	CN-12653
Drawing No.	4075 | 1
Project No.	TMR29-130
MRM_Detail (05/14)	BN-70-1

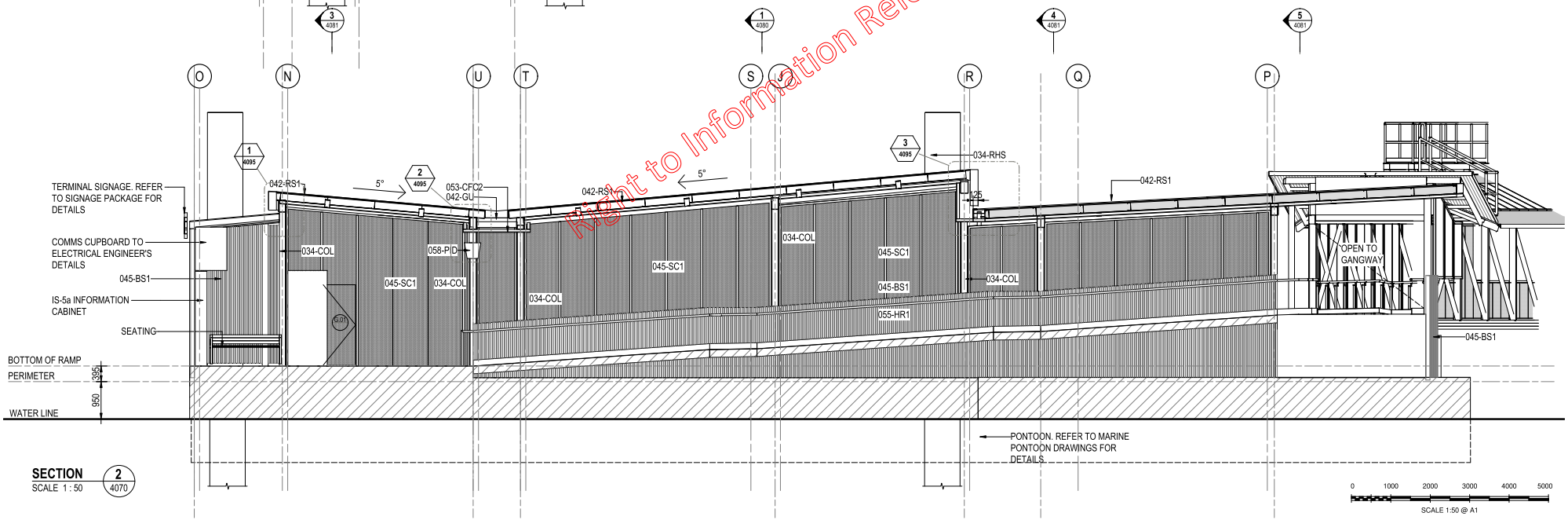
ISSUE FOR TENDER

Cardno architectus

LEGEND	
Code	**Description**
034-COL	COLUMN
034-RHS	RECTANGULAR HOLLOW SECTION
042-DP1	DOWNPIPE - CIRCULAR
042-FS1	ROOF - FASCIA - TYPE 1
042-GU	GUTTER
042-RS1	ROOF SHEETING METAL - ALUMINIUM
045-BS1	ALUMINIUM BATTEN SCREEN - TYPE 1
045-SC1	SCREEN PANEL - TYPE 1
053-CFC2	CFC CEILING 2
055-HR1	HANDRAIL - TYPE 1
058-PID	PASSENGER INFORMATION DISPLAY SIGNAGE
095-DL1	DOWNLIGHT - TYPE 1 (RECESSED)



SECTION 1 (4070) SCALE 1 : 50



SECTION 2 (4070) SCALE 1 : 50

0 1000 2000 3000 4000 5000
SCALE 1:50 @ A1

4	ISSUED FOR TENDER		14-08-20	
3	PRELIMINARY ISSUE		13-07-20	
2	PRELIMINARY DESIGN RE-ISSUE		15-01-20	
1	PRELIMINARY DESIGN ISSUE		08-11-19	
	Revisions/Descriptions	Certification	Date	Microfiled

Associated Job Nos

Auxiliary Drg Nos

Survey Data: Datum GDA94; Horiz. Grid MGA Z56; Height Origin AHD; Survey Books

Scales: Dimensions shown in millimetres except where shown otherwise

SOUTHERN MORETON BAY
SOUTHERN MORETON BAY ISLANDS
KARRAGARRA ISLAND

FERRY TERMINALS DESIGN

Drawn ML; Checked AR; Designed AR; Design Review; Date 14-08-20

ARCHITECTURAL
PONTOON
SECTIONS - SHEET 1

ENGINEERING CERTIFICATION (RPEQ)

ENG. AREA	NAME	SIGNATURE	NO.	DATE

Queensland Government

File No. 467/00408
Contract. No. CN-12653
Drawing No. 4080 | 4
Project No. TMR29-130
MRM_Detail (05/14) | BN-70-1

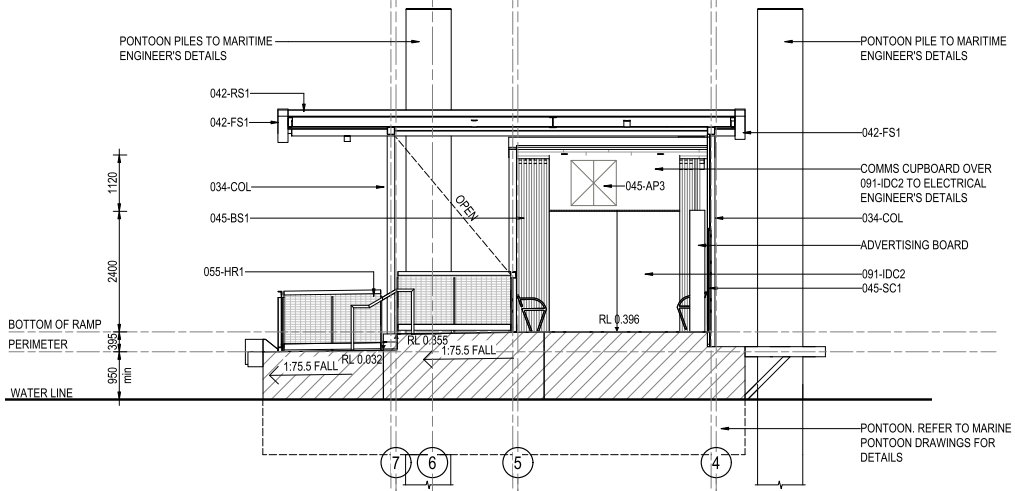
CAD FILES | BIM 360://7905-29 SMBI Ferry Terminal Designs/46700408 - SMBI - Karragarra Island - A - Pontoon_Single Berth.rvt

Last Modified :- 17/09/2020 6:04:59 PM

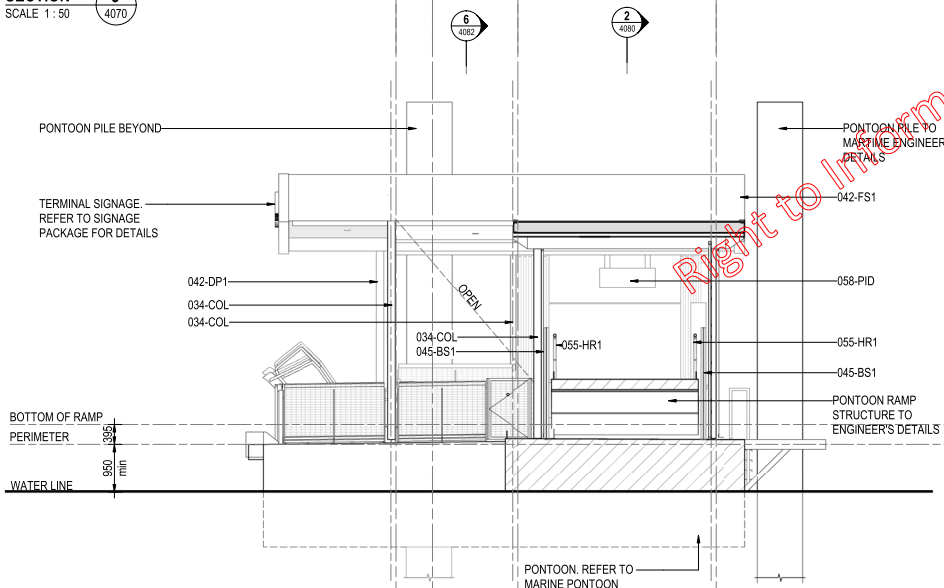
ISSUE FOR TENDER

Cardno architectus

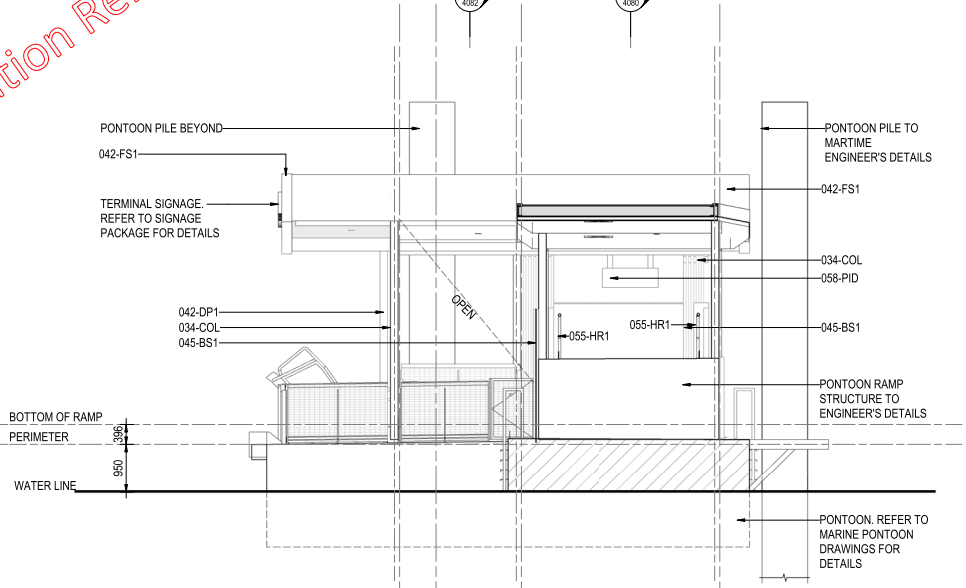
LEGEND	
Code	**Description**
034-COL	COLUMN
042-DP1	DOWNPIPE - CIRCULAR
042-FS1	ROOF - FASCIA - TYPE 1
042-RS1	ROOF SHEETING METAL - ALUMINIUM
045-AP3	ACCESS PANEL - TYPE 3 900x900
045-BS1	ALUMINIUM BATTEN SCREEN - TYPE 1
045-SC1	SCREEN PANEL - TYPE 1
055-HR1	HANDRAIL - TYPE 1
058-PID	PASSENGER INFORMATION DISPLAY SIGNAGE
091-IDC2	TRANSLINK INFORMATION DISPLAY CABINET - 2 DOORS



SECTION 3 SCALE 1 : 50 (4070)



SECTION 4 SCALE 1 : 50 (4070)



SECTION 5 SCALE 1 : 50 (4070)

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SCALE 1:50 @ A1

Rev	Revisions/Descriptions	Certification	Date	Microfiled
1	ISSUED FOR TENDER		14-08-20	

Associated Job Nos

Auxiliary Drg Nos

Survey Data	
Datum	GDA94
Horiz. Grid	MGA Z56
Height Origin	AHD
Survey Books	

Scales

Dimensions shown in millimetres except where shown otherwise

SOUTHERN MORETON BAY
SOUTHERN MORETON BAY ISLANDS
KARRAGARRA ISLAND

FERRY TERMINALS DESIGN

Drawn	ML
Checked	AR
Designed	AR
Design Review	
Date	14-08-20

ARCHITECTURAL
PONTOON
SECTIONS - SHEET 2

ENGINEERING CERTIFICATION (RPEQ)

ENG. AREA	NAME	SIGNATURE	NO.	DATE

Queensland Government

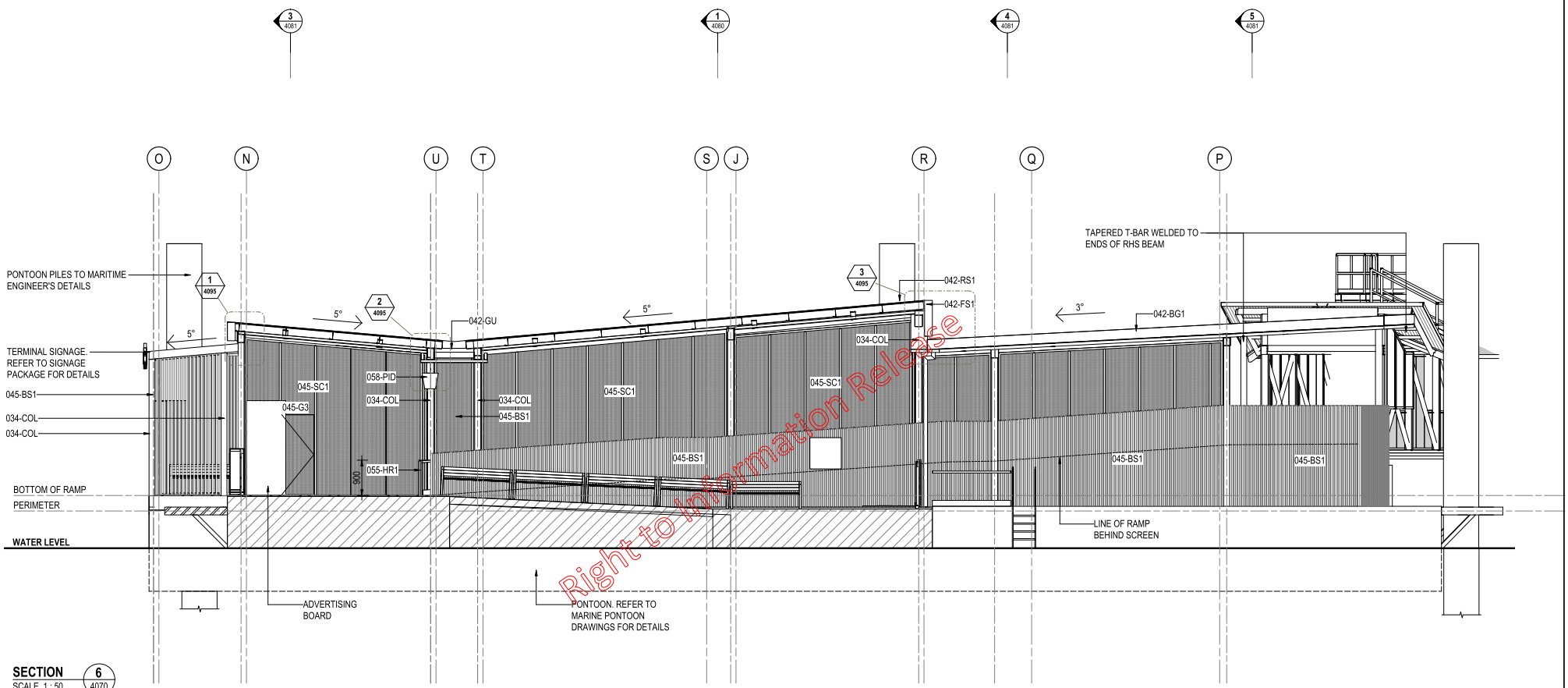
File No.	467/00408
Contract. No.	CN-12653
Drawing No.	4081 | 1
Project No.	TMR29-130
MRM_Detail (05/14)	BN-70-1

CAD FILES | BIM 360://7905-29 SMBI Ferry Terminal Designs/46700408 - SMBI - Karragarra Island - A - Pontoon_Single Berth.rvt

Last Modified :- 17/09/2020 6:05:02 PM

ISSUE FOR TENDER

Cardno architectus



SECTION 6 / 4070
SCALE 1 : 50

1	ISSUED FOR TENDER		14-08-20	
	Revisions/Descriptions	Certification	Date	Microfiled

CAD FILES | BIM 360://7905-29 SMBI Ferry Terminal Designs/46700408 - SMBI - Karragarra Island - A - Pontoon_Single Berth.rvt

Last Modified :- 17/09/2020 6:05:07 PM

Associated Job Nos

Auxiliary Drg Nos

Survey Data: Datum GDA94; Horiz. Grid MGA Z56; Height Origin AHD; Survey Books

Scales: Dimensions shown in millimetres except where shown otherwise

SOUTHERN MORETON BAY
SOUTHERN MORETON BAY ISLANDS
KARRAGARRA ISLAND

FERRY TERMINALS DESIGN

Drawn ML | Checked AR | Designed AR | Design Review | Date 14-08-20

ARCHITECTURAL
PONTOON
SECTIONS - SHEET 3

ENGINEERING CERTIFICATION (RPEQ)

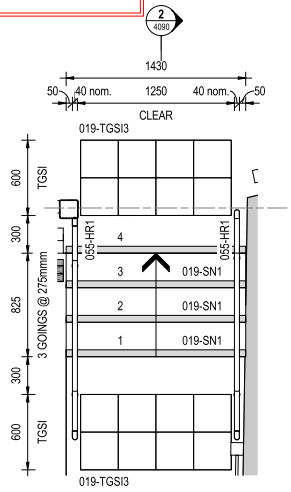
ENG. AREA	NAME	SIGNATURE	NO.	DATE

Queensland Government

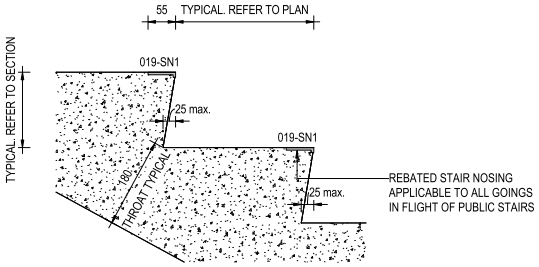
File No.	467/00408
Contract. No.	CN-12653
Drawing No.	4082 / 1
Project No.	TMR29-130
MRM_Detail (05/14)	BN-70-1

ISSUE FOR TENDER

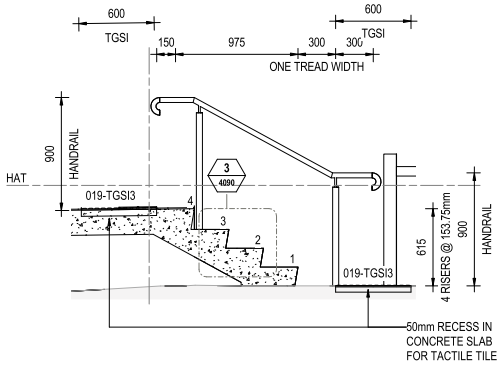
Cardno architectus



LANDSIDE STAIR DETAIL PLAN
SCALE 1 : 20



SECTION 3 / 4090
SCALE 1 : 5



SECTION 2 / 4020
SCALE 1 : 20

STAIR GENERAL NOTES:

1. MINIMUM 30% LUMINANCE CONTRAST TO BE ACHIEVED BETWEEN STAIR NOSING AND TREAD SURFACE

2. STAIR NOSING AND TREAD SURFACE TO HAVE A SLIP RESISTANCE RATING OF P3 OR R10 WHEN DRY, AND P4 OR R11 WHEN WET.

3. STAIR LANDINGS TO HAVE A SLIP RESISTANCE RATING OF P3 OR R10 WHEN DRY, AND P4 OR R11 WHEN WET.

4. ALL HANDRAILS AND SAFETY RAILS TO COMPLY WITH AS 1428.1 & 1428.2

	Revisions/Descriptions	Certification	Date	Microfiled
2	REVISED ISSUE FOR TENDER		31-08-20	
1	ISSUED FOR TENDER		14-08-20	

CAD FILES: BIM 360://7905-29 SMBI Ferry Terminal Designs/46700408 - SMBI - Karragarra Island - A - Site and Jetty.rvt

Associated Job Nos

Auxiliary Drg Nos

Survey Data: Datum GDA94; Horiz. Grid MGA Z56; Height Origin; Survey Books

Scales: Dimensions shown in millimetres except where shown otherwise

SOUTHERN MORETON BAY
SOUTHERN MORETON BAY ISLANDS
KARRAGARRA ISLAND

FERRY TERMINALS DESIGN

Drawn ML
Checked AR
Designed AR
Design Review AR
Date 11/08/20

ARCHITECTURAL
LANDSIDE AND JETTY
STAIR DETAILS

ENGINEERING CERTIFICATION (RPEQ)

ENG. AREA	NAME	SIGNATURE	NO.	DATE

Queensland Government

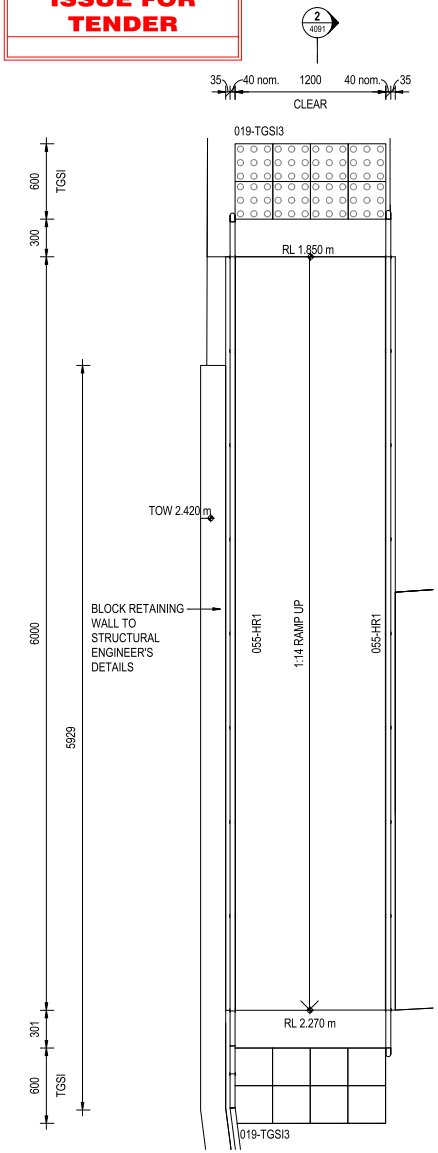
File No.	467/00408
Contract. No.	CN-12653
Drawing No.	4090 / 2
Project No.	TMR29-130

MRM_Detail (05/14) BN-70-1

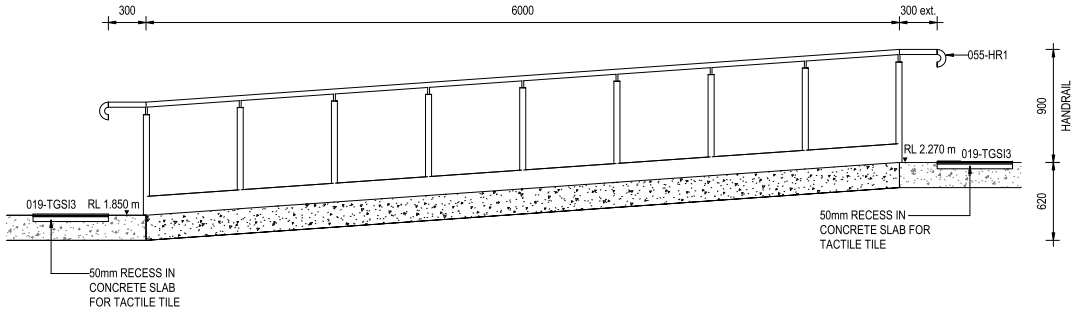
Last Modified :- 31/08/2020 6:40:22 PM

ISSUE FOR TENDER

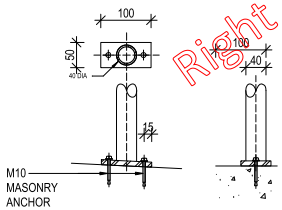
Cardno architectus



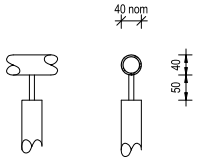
LANDSIDE RAMP DETAIL
SCALE 1 : 20



SECTION 2 / 4091
SCALE 1 : 20



HANDRAIL FIXING - BASE PLATE
SCALE 1 : 5



HANDRAIL FIXING - POST
SCALE 1 : 5

1	ISSUED FOR TENDER		14-08-20	
	Revisions/Descriptions	Certification	Date	Microfiled

CAD FILES: BIM 360://7905-29 SMBI Ferry Terminal Designs/46700408 - SMBI - Karragarra Island - A - Site and Jetty.rvt

Associated Job Nos
Auxiliary Drg Nos

Survey Data: Datum GDA94; Horiz. Grid MGA Z56; Height Origin; Survey Books

Scales: Dimensions shown in millimetres except where shown otherwise

SOUTHERN MORETON BAY
SOUTHERN MORETON BAY ISLANDS
KARRAGARRA ISLAND

FERRY TERMINALS DESIGN

Drawn	Author
Checked	Checker
Designed	Designer
Design Review	Designer
Date	11/08/20

ARCHITECTURAL
LANDSIDE AND JETTY
RAMP DETAILS

ENGINEERING CERTIFICATION (RPEQ)

ENG. AREA	NAME	SIGNATURE	NO.	DATE

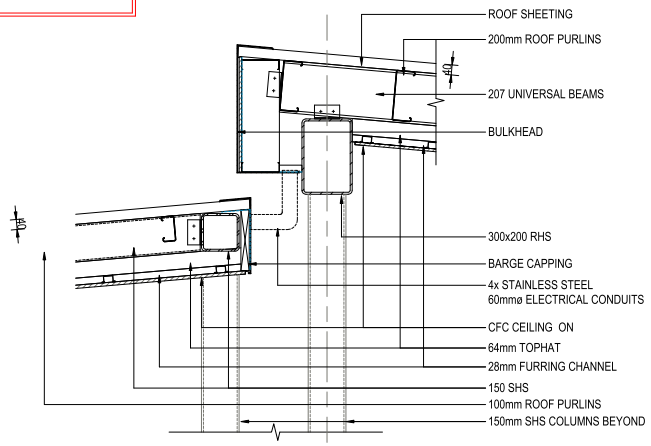
Queensland Government

File No.	467/00408
Contract. No.	CN-12653
Drawing No.	4091 | 1
Project No.	TMR29-130
MRM_Detail (05/14)	BN-70-1

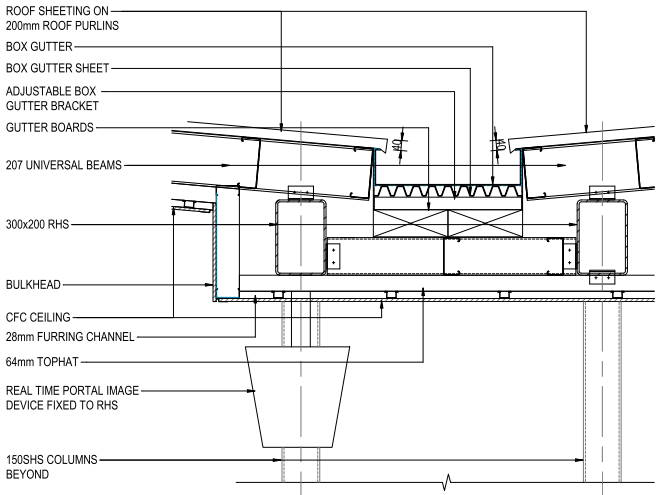
Last Modified :- 18/08/2020 5:54:51 PM

ISSUE FOR TENDER

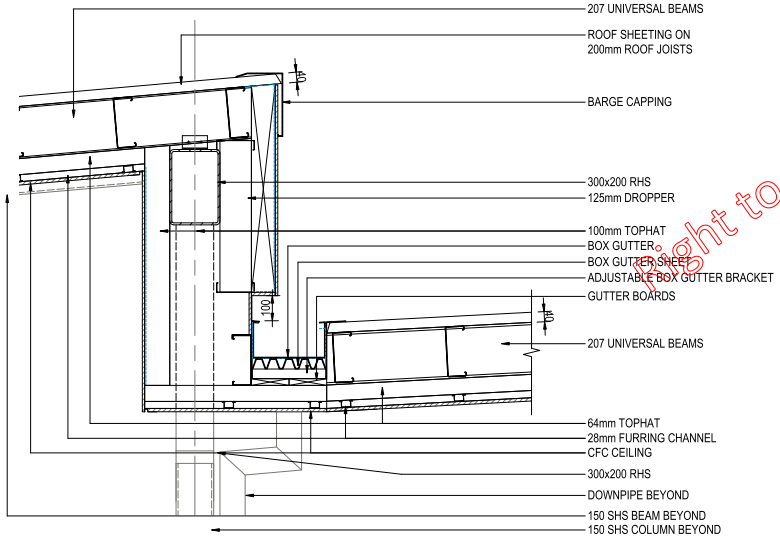
Cardno architectus



SECTION 1 / 09.200
SCALE 1 : 10



SECTION 2 / 09.200
SCALE 1 : 10



SECTION 3 / 09.200
SCALE 1 : 10

0 200 400 600 800 1000
SCALE 1:10 @ A1

1	ISSUED FOR TENDER		14-08-20	
	Revisions/Descriptions	Certification	Date	Microfiled

CAD FILES | BIM 360://7905-29 SMBI Ferry Terminal Designs/46700408 - SMBI - Karragarra Island - A - Pontoon_Single Berth.rvt

Last Modified: - 17/09/2020 6:05:11 PM

Associated Job Nos
Auxiliary Drg Nos

Survey Data
Datum: GDA94
Horiz. Grid: MGA Z56
Height Origin: AHD
Survey Books:

Scales
Dimensions shown in millimetres except where shown otherwise

SOUTHERN MORETON BAY
SOUTHERN MORETON BAY ISLANDS
KARRAGARRA ISLAND

FERRY TERMINALS DESIGN

Drawn: ML
Checked: AR
Designed: AR
Design Review:
Date: 14-08-20

ARCHITECTURAL
PONTOON
GENERAL DETAILS - ROOF

ENGINEERING CERTIFICATION (RPEQ)

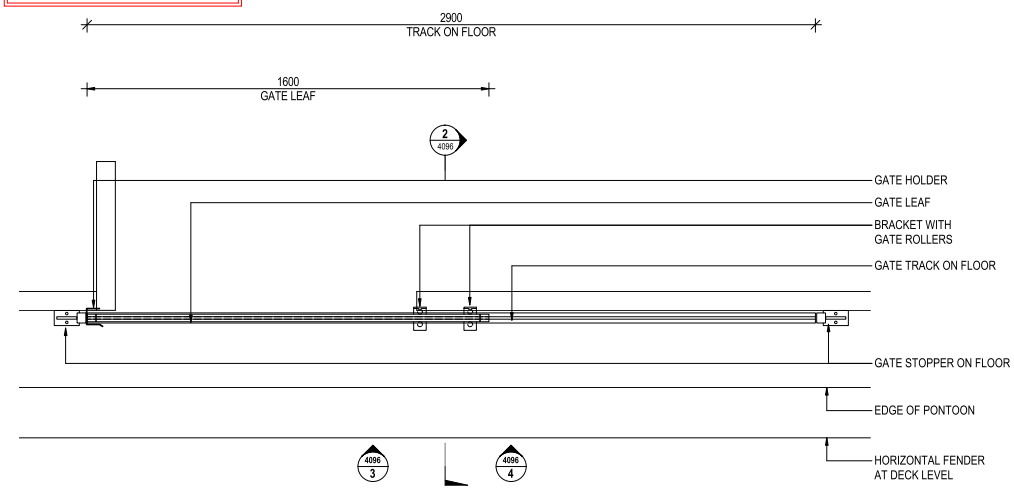
ENG. AREA	NAME	SIGNATURE	NO.	DATE

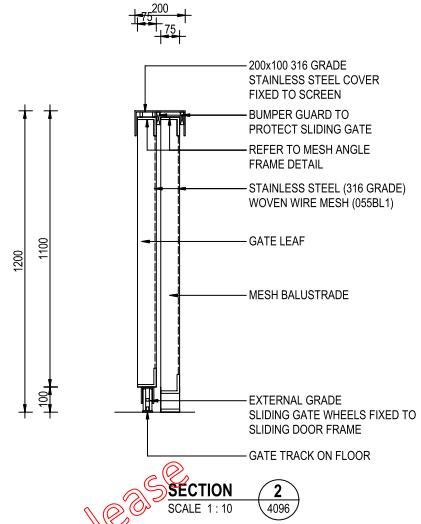
Queensland Government

File No.	467/00408
Contract. No.	CN-12653
Drawing No.	4095 1
Project No.	TMR29-130
MRM_Detail (05/14)	BN-70-1

ISSUE FOR TENDER

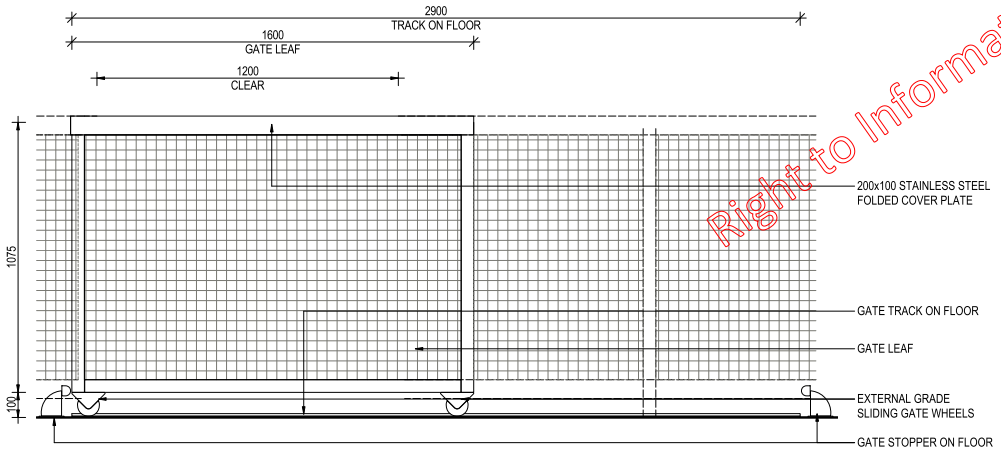
Cardno architectus



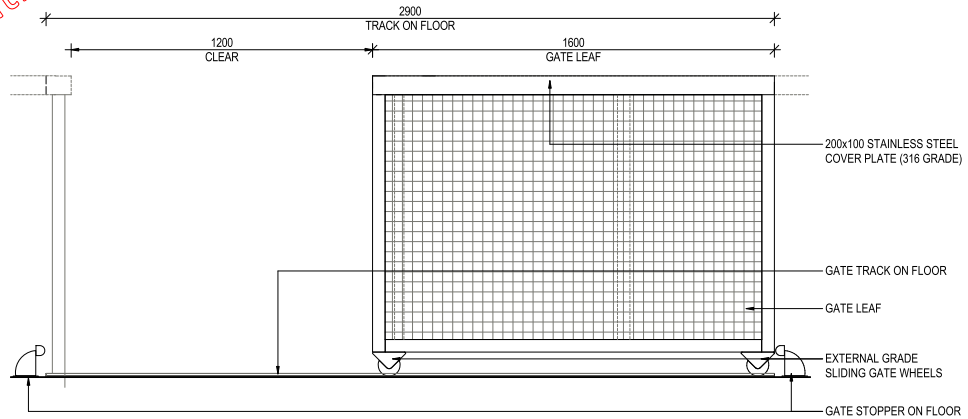


SECTION 2
SCALE 1 : 10 4096

PONTOON SLIDING GATE DETAIL PLAN
SCALE 1 : 10



ELEVATION 3
SCALE 1 : 5 4096



ELEVATION 4
SCALE 1 : 5 4096

2	REVISED ISSUE FOR TENDER		31-08-20	
1	ISSUED FOR TENDER		14-08-20	
	Revisions/Descriptions	Certification	Date	Microfiled

CAD FILES: BIM 360://7905-29 SMBI Ferry Terminal Designs/46700408 - SMBI - Karragarra Island - A - Site and Jetty.rvt

Associated Job Nos

Auxiliary Drg Nos

Survey Data: Datum GDA94; Horiz. Grid MGA Z56; Height Origin; Survey Books

Scales: Dimensions shown in millimetres except where shown otherwise

SOUTHERN MORETON BAY
SOUTHERN MORETON BAY ISLANDS
KARRAGARRA ISLAND

FERRY TERMINALS DESIGN

Drawn	ML
Checked	AR
Designed	AR
Design Review	AR
Date	11/08/20

ARCHITECTURAL
PONTOON
GENERAL DETAILS - SLIDING GATE

ENGINEERING CERTIFICATION (RPEQ)

ENG. AREA	NAME	SIGNATURE	NO.	DATE

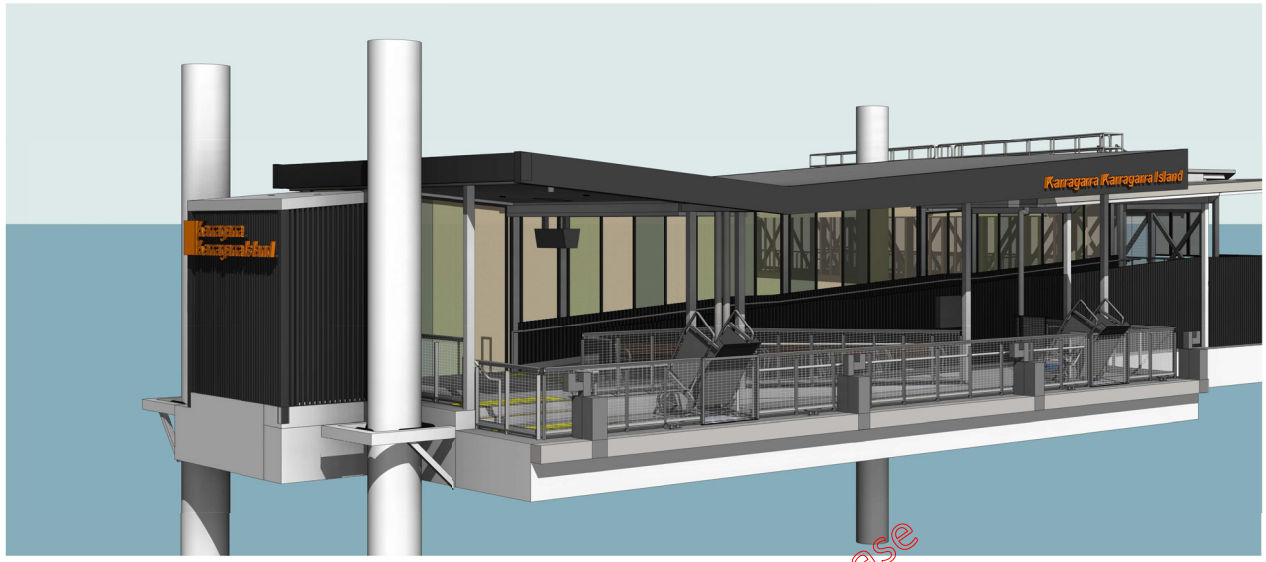
Queensland Government

File No.	467/00408
Contract. No.	CN-12653
Drawing No.	4096 2
Project No.	TMR29-130
MRM_Detail (05/14)	BN-70-1

Last Modified :- 31/08/2020 6:40:17 PM

ISSUE FOR TENDER

Cardno architectus



4	REVISED ISSUE FOR TENDER		31-08-20	
3	ISSUED FOR TENDER		14-08-20	
2	PRELIMINARY DESIGN RE-ISSUE		15-01-20	
1	PRELIMINARY DESIGN ISSUE		08-11-19	
	Revisions/Descriptions	Certification	Date	Microfiled

CAD FILES: BIM 360://7905-29 SMBI Ferry Terminal Designs/46700408 - SMBI - Karragarra Island - A - Pontoon_Single Berth.rvt

Associated Job Nos

Auxiliary Drg Nos

Survey Data

Datum	GDA94
Horiz. Grid	MGA Z56
Height Origin	AHD
Survey Books	

Scales

Dimensions shown in millimetres except where shown otherwise

SOUTHERN MORETON BAY
SOUTHERN MORETON BAY ISLANDS

FERRY TERMINALS DESIGN

Drawn	ML
Checked	AR
Designed	AR
Design Review	AR
Date	11.08.20

ARCHITECTURAL
PONTOON
PERSPECTIVES

ENGINEERING CERTIFICATION (RPEQ)

ENG. AREA	NAME	SIGNATURE	NO.	DATE

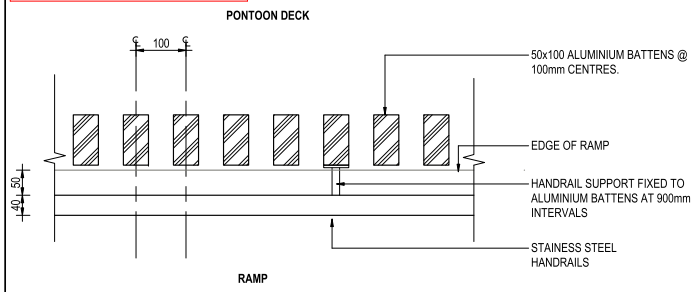
Queensland Government

File No.	467/00408
Contract. No.	CN-12653
Drawing No.	4100 | 4
Project No.	TMR29-130
MRM_Detail (05/14)	BN-70-1

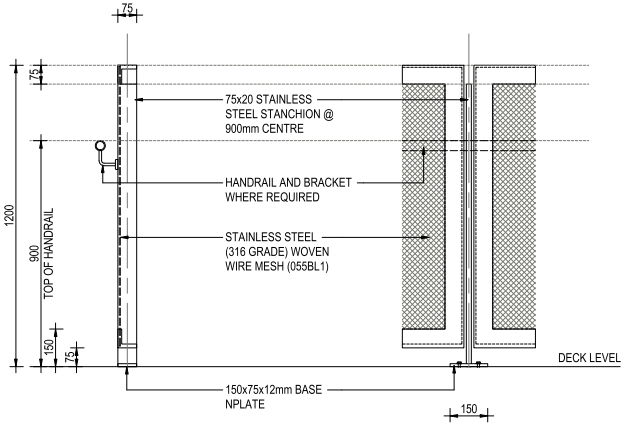
Last Modified :- 10/9/2020 12:25:15 PM

ISSUE FOR TENDER

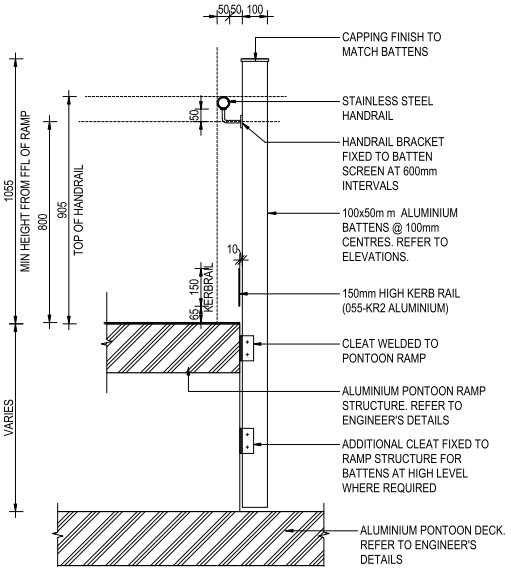
Cardno architectus



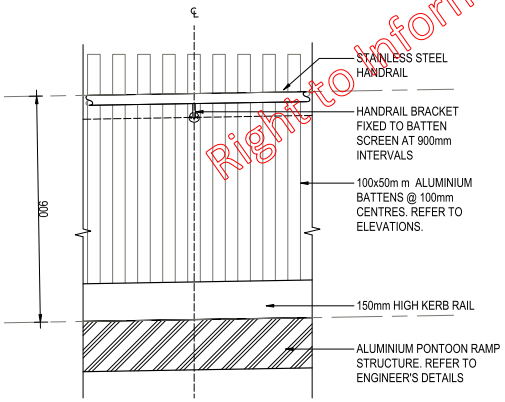
BATTEN SCREEN RAMP DETAIL PLAN
SCALE 1 : 5



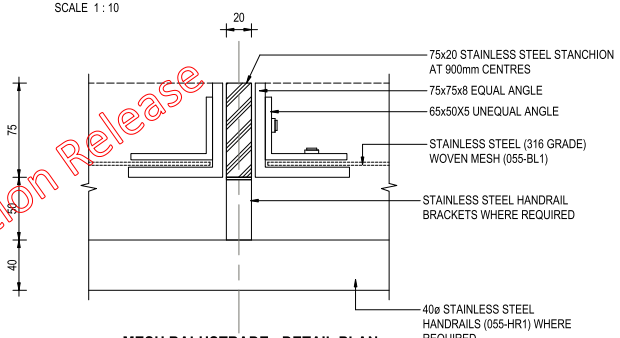
MESH BALUSTRADE - DETAIL SECTION AND ELEVATION
SCALE 1 : 10



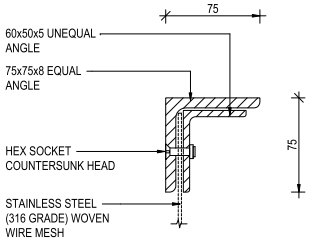
SECTION 2
SCALE 1 : 10 — 09.200



ELEVATION 3
SCALE 1 : 10 — 09.200



MESH BALUSTRADE - DETAIL PLAN
SCALE 1 : 2



MESH BALUSTRADE - MESH FRAME
SCALE 1 : 2

0 40 80 120 160 200
SCALE 1:2 @ A1

0 100 200 300 400 500
SCALE 1:5 @ A1

0 200 400 600 800 1000
SCALE 1:10 @ A1

1	ISSUED FOR TENDER	14-08-20	
	Revisions/Descriptions	Date	Microfiled

Certification

CAD FILES: BIM 360://7905-29 SMBI Ferry Terminal Designs/46700408 - SMBI - Karragarra Island - A - Pontoon_Single Berth.rvt

Last Modified: - 17/09/2020 6:05:16 PM

Associated Job Nos

Auxiliary Drg Nos

Survey Data: Datum GDA94; Horiz. Grid MGA Z56; Height Origin AHD; Survey Books

Scales: Dimensions shown in millimetres except where shown otherwise

SOUTHERN MORETON BAY
SOUTHERN MORETON BAY ISLANDS
KARRAGARRA ISLAND

FERRY TERMINALS DESIGN

Drawn ML; Checked AR; Designed AR; Design Review; Date 14-08-20

ARCHITECTURAL
PONTOON
SCREEN DETAILS - SHEET 1

ENGINEERING CERTIFICATION (RPEQ)

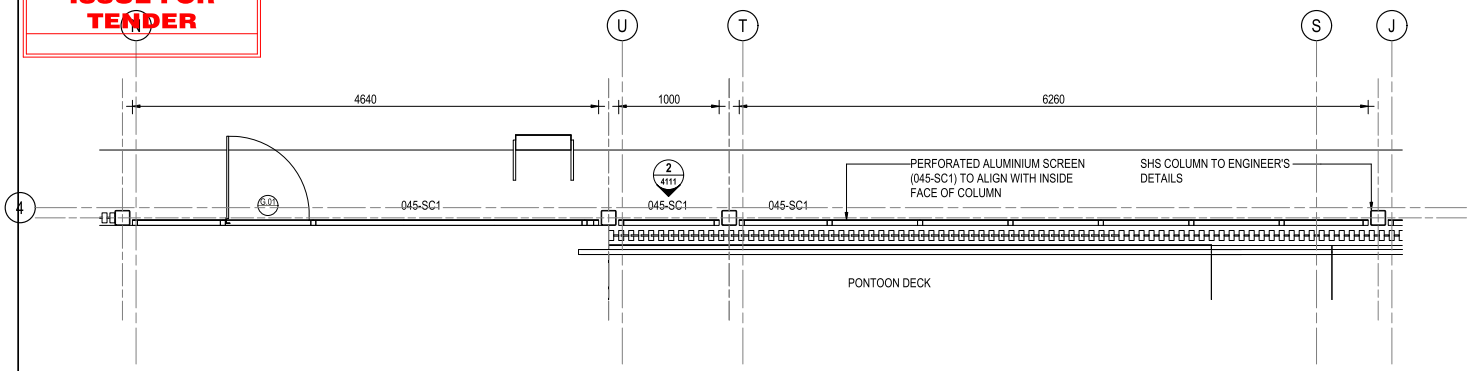
ENG. AREA	NAME	SIGNATURE	NO.	DATE

Queensland Government

File No.	467/00408
Contract. No.	CN-12653
Drawing No.	4110 | 1
Project No.	TMR29-130
MRM_Detail (05/14)	BN-70-1

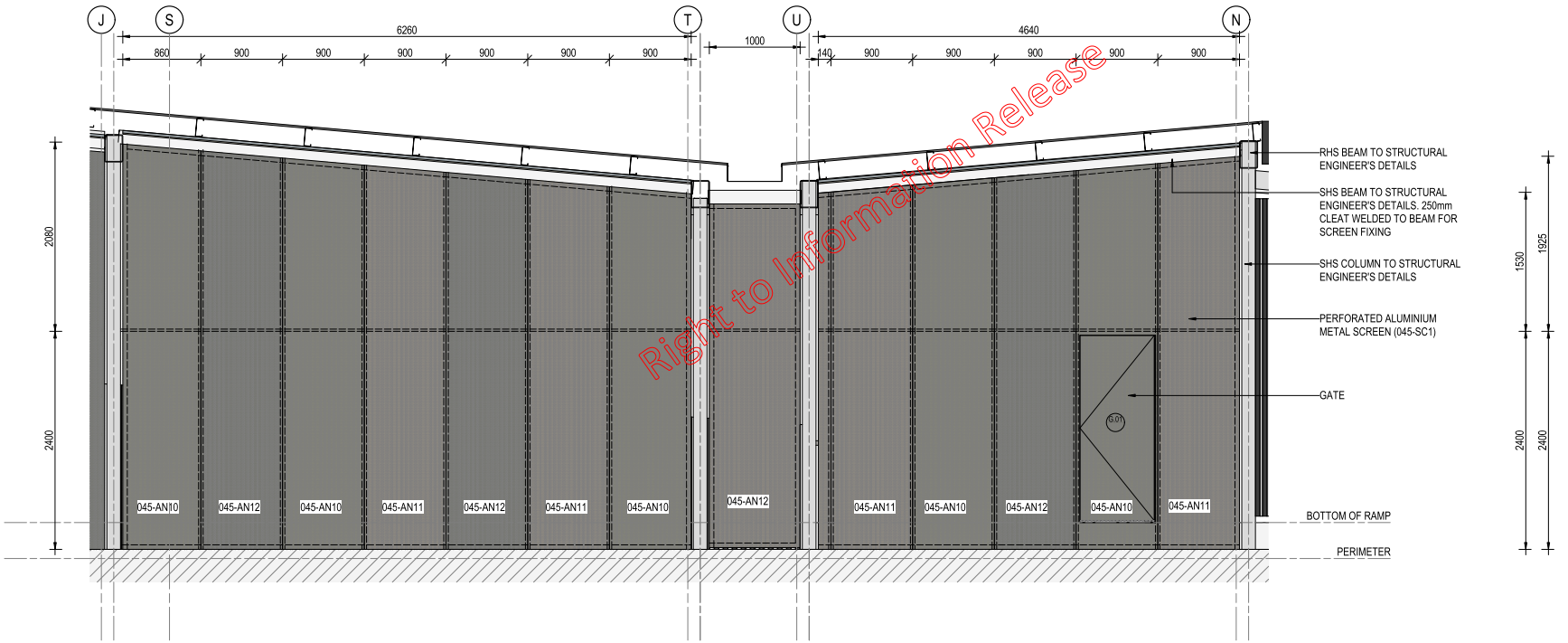
ISSUE FOR TENDER

Cardno architectus



SCREEN DETAIL PLAN

SCALE 1 : 25



NOTE:
1. DRAWING TO BE PRINTED IN COLOUR
2. REFER TO ARCHITECTURAL SCHEDULE FOR PERFORATED SCREEN AND ANODISED DETAILS

0 500 1000 1500 2000 2500

SCALE 1:25 @ A1

1	ISSUED FOR TENDER		14-08-20	
	Revisions/Descriptions	Certification	Date	Microfiled

Last Modified :- 17/09/2020 6:05:21 PM

CAD FILES | BIM 360://7905-29 SMBI Ferry Terminal Designs/46700408 - SMBI - Karragarra Island - A - Pontoon_Single Berth.rvt

Associated Job Nos	Survey Data	
	Datum	GDA94
Auxiliary Drg Nos	Horiz. Grid	MGA Z56
	Height Origin	AHD
	Survey Books	

Scales

Dimensions shown in millimetres except where shown otherwise

SOUTHERN MORETON BAY
SOUTHERN MORETON BAY ISLANDS
KARRAGARRA ISLAND

FERRY TERMINALS DESIGN

Drawn	ML
Checked	AR
Designed	AR
Design Review	
Date	14-08-20

ARCHITECTURAL
PONTOON
SCREEN DETAILS - SHEET 2

ENGINEERING CERTIFICATION (RPEQ)

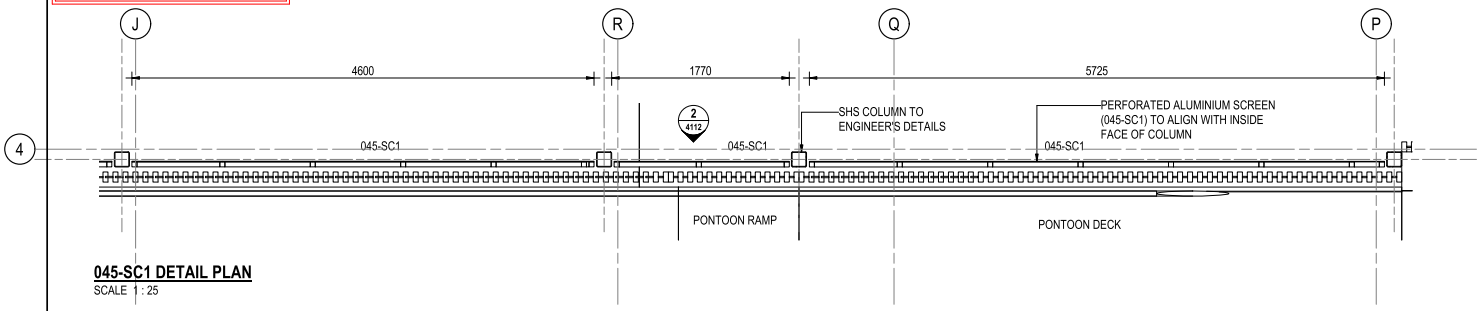
ENG. AREA	NAME	SIGNATURE	NO.	DATE

Queensland Government

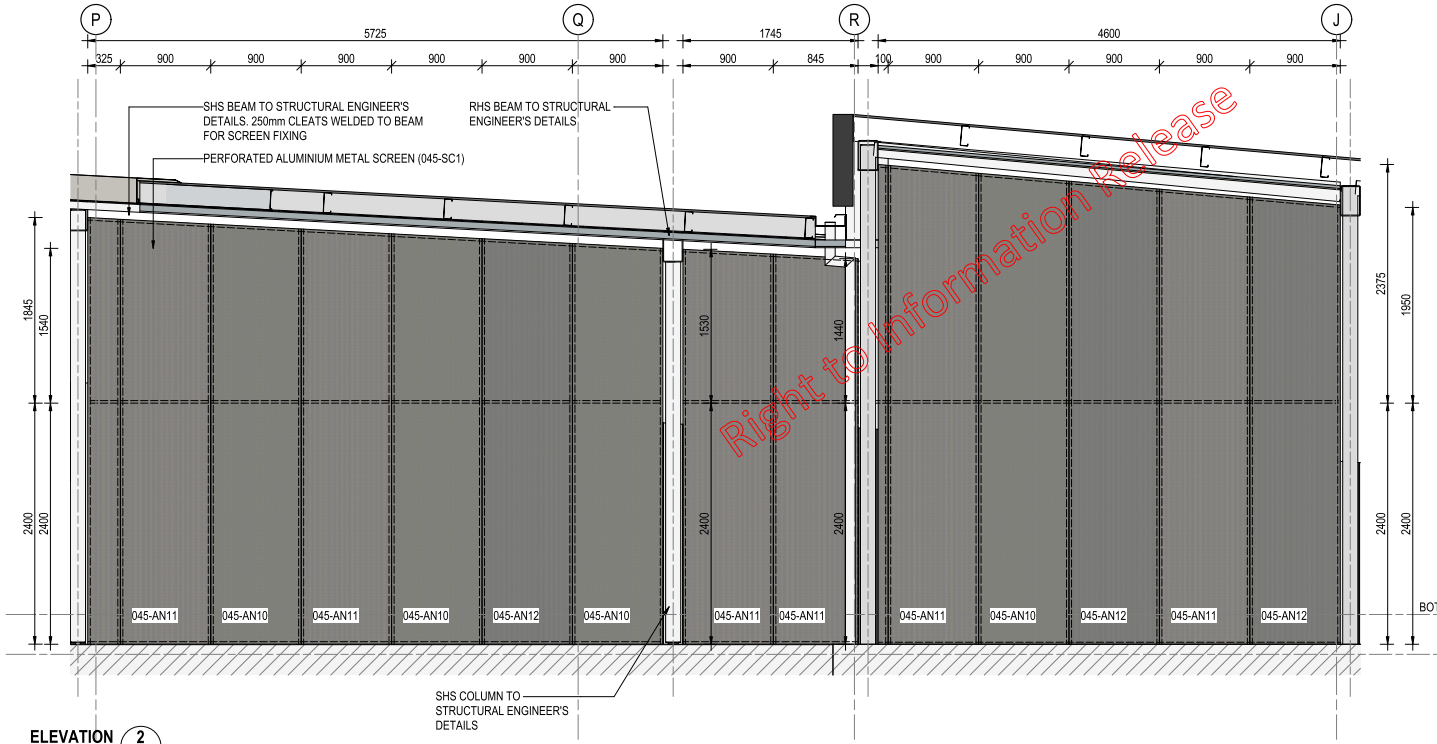
File No.	467/00408
Contract. No.	CN-12653
Drawing No.	4111 1
Project No.	TMR29-130
MRM_Detail (05/14)	BN-70-1

ISSUE FOR TENDER

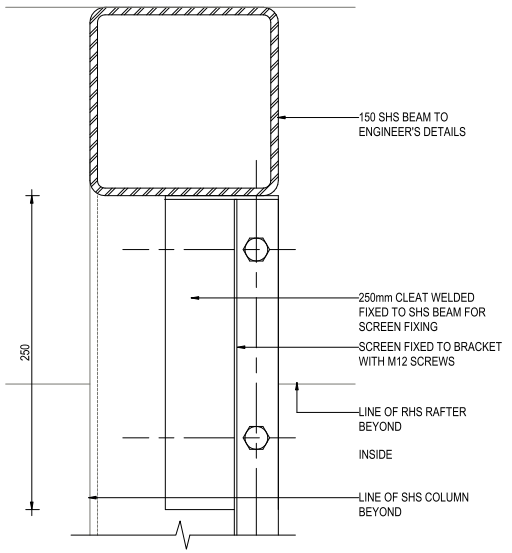
Cardno architectus



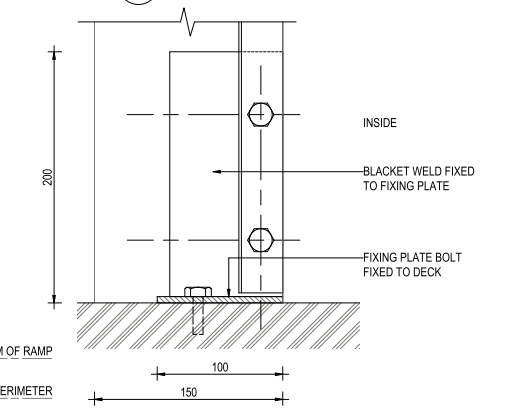
045-SC1 DETAIL PLAN
SCALE 1 : 25



ELEVATION 2 / 4111
SCALE 1 : 25



SECTION 3 / 09.200
SCALE 1 : 2



SECTION 4 / 09.200
SCALE 1 : 2

NOTE:
1. DRAWING TO BE PRINTED IN COLOUR
2. REFER TO ARCHITECTURAL SCHEDULE FOR PERFORATED SCREEN AND ANODISED DETAILS

0 500 1000 1500 2000 2500
SCALE 1:25 @ A1

1	ISSUED FOR TENDER		14-08-20	
	Revisions/Descriptions	Certification	Date	Microfiled

CAD FILES: BIM 360://7905-29 SMBI Ferry Terminal Designs/46700408 - SMBI - Karragarra Island - A - Pontoon_Single Berth.rvt

Last Modified: - 17/09/2020 6:05:29 PM

Associated Job Nos
Auxiliary Drg Nos

Survey Data
Datum: GDA94
Horiz. Grid: MGA Z56
Height Origin: AHD
Survey Books:

Scales
Dimensions shown in millimetres except where shown otherwise

SOUTHERN MORETON BAY
SOUTHERN MORETON BAY ISLANDS
KARRAGARRA ISLAND

FERRY TERMINALS DESIGN

Drawn: ML
Checked: AR
Designed: AR
Design Review:
Date: 14-08-20

ARCHITECTURAL
PONTOON
SCREEN DETAILS - SHEET 3

ENGINEERING CERTIFICATION (RPEQ)

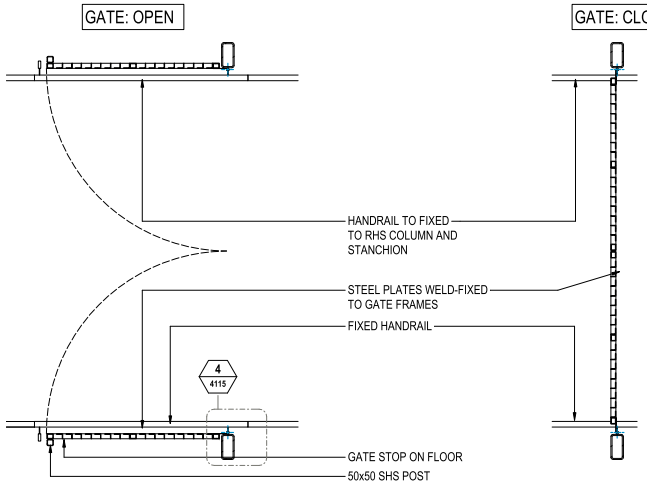
ENG. AREA	NAME	SIGNATURE	NO.	DATE

Queensland Government

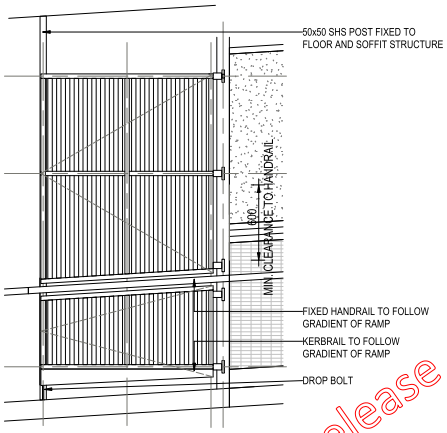
File No.	467/00408
Contract. No.	CN-12653
Drawing No.	4112 / 1
Project No.	TMR29-130
MRM_Detail (05/14)	BN-70-1

ISSUE FOR TENDER

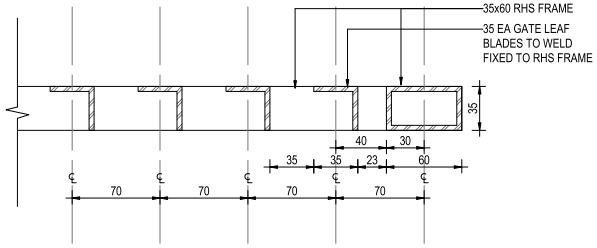
Cardno architectus



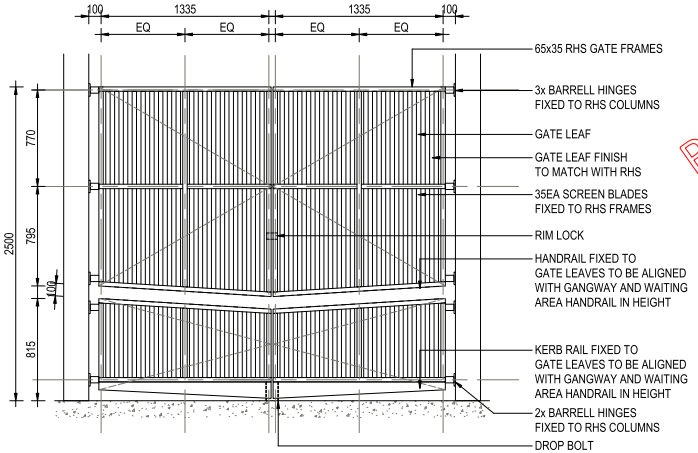
GATE 03 DETAIL PLAN
SCALE 1 : 20



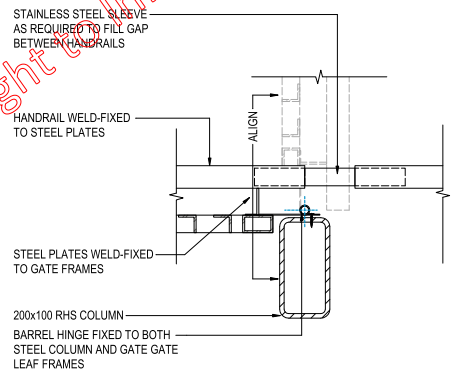
GATE DETAIL SECTION - OPEN - ON RAMP
SCALE 1 : 20



GATE DETAIL PLAN - BLADES
SCALE 1 : 2



GATE DETAIL ELEVATION
SCALE 1 : 20



GATE HINGE GENERAL DETAIL PLAN
SCALE 1 : 5

2	REVISED ISSUE FOR TENDER		31-08-20	
1	ISSUED FOR TENDER		14-08-20	
	Revisions/Descriptions	Certification	Date	Microfiled

CAD FILES | BIM 360://7905-29 SMBI Ferry Terminal Designs/46700408 - SMBI - Karragarra Island - A - Site and Jetty.rvt

Associated Job Nos | Auxiliary Drg Nos

Survey Data: Datum GDA94; Horiz. Grid MGA Z56; Height Origin; Survey Books

Scales: Dimensions shown in millimetres except where shown otherwise

SOUTHERN MORETON BAY
SOUTHERN MORETON BAY ISLANDS
KARRAGARRA ISLAND

FERRY TERMINALS DESIGN

Drawn ML | Checked AR | Designed AR | Design Review AR | Date 11/08/20

ARCHITECTURAL
LANDSIDE AND JETTY
GENERAL DETAILS - GATE

ENGINEERING CERTIFICATION (RPEQ)

ENG. AREA	NAME	SIGNATURE	NO.	DATE

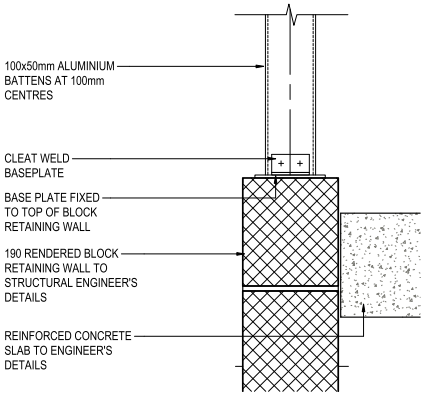
Queensland Government

File No.	467/00408
Contract. No.	CN-12653
Drawing No.	4115 | 2
Project No.	TMR29-130
MRM_Detail (05/14)	BN-70-1

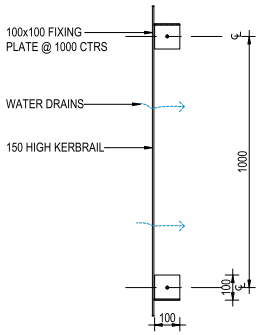
Last Modified :- 31/08/2020 6:40:11 PM

ISSUE FOR TENDER

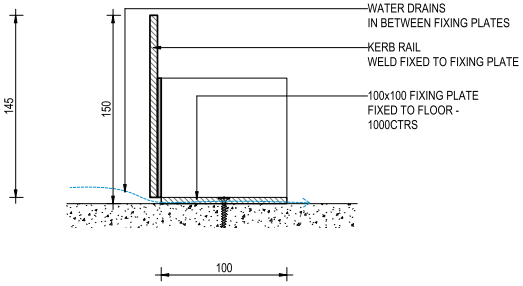
Cardno architectus



SECTION 1 / 4053
SCALE 1 : 5



TYPICAL JETTY DETAIL - KERBRAIL DETAIL PLAN
SCALE 1 : 10



TYPICAL JETTY DETAIL - KERBRAIL DETAIL SECTION
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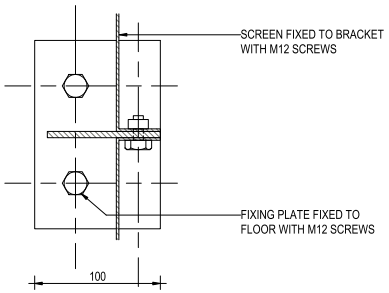
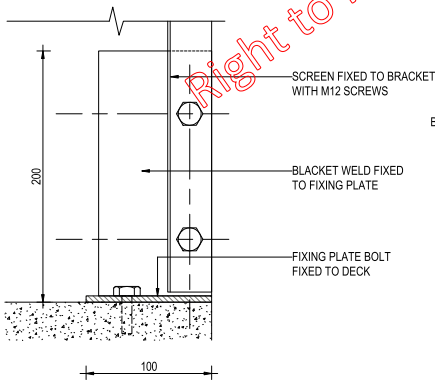
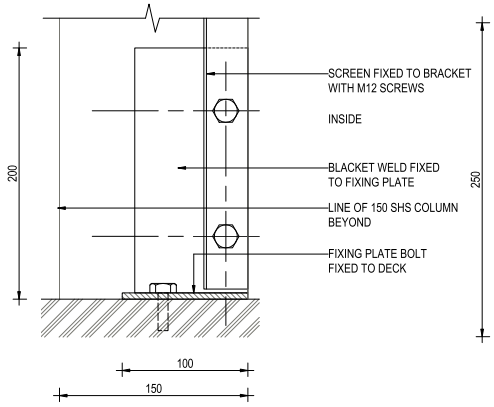


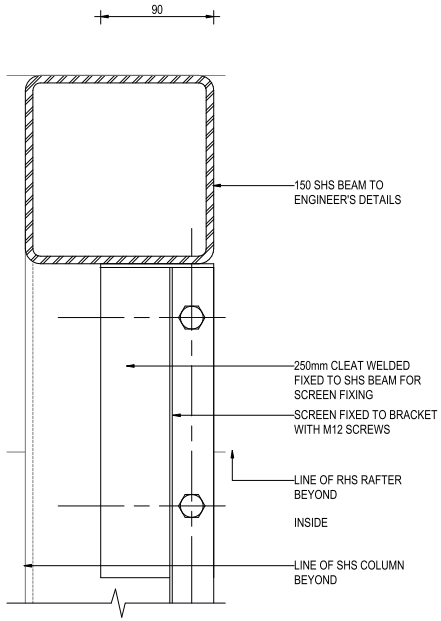
TYPICAL JETTY DETAIL - SCREEN DETAIL PLAN
SCALE 1 : 2



TYPICAL JETTY DETAIL - SCREEN DETAIL SECTION
SCALE 1 : 2



TYPICAL PONTOON DETAIL - SCREEN DETAIL SECTION BOTTOM
SCALE 1 : 2



TYPICAL PONTOON DETAIL - SCREEN DETAIL SECTION TOP
SCALE 1 : 2

1	ISSUED FOR TENDER		14-08-20	
	Revisions/Descriptions	Certification	Date	Microfiled

CAD FILES: BIM 360://7905-29 SMBI Ferry Terminal Designs/46700408 - SMBI - Karragarra Island - A - Site and Jetty.rvt

Last Modified :- 17/09/2020 6:31:45 PM

Associated Job Nos
Auxiliary Drg Nos

Survey Data: Datum GDA94; Horiz. Grid MGA Z56; Height Origin; Survey Books

Scales: Dimensions shown in millimetres except where shown otherwise

SOUTHERN MORETON BAY
SOUTHERN MORETON BAY ISLANDS
KARRAGARRA ISLAND

FERRY TERMINALS DESIGN

Drawn Author
Checked Checker
Designed Designer
Design Review Designer
Date 11/08/20

ARCHITECTURAL
LANDSIDE AND JETTY
GENERAL DETAILS - SCREENS AND BALUSTRADES

ENGINEERING CERTIFICATION (RPEQ)

ENG. AREA	NAME	SIGNATURE	NO.	DATE

Queensland Government

File No.	467/00408
Contract. No.	CN-12653
Drawing No.	4116 1
Project No.	TMR29-130
MRM_Detail (05/14)	BN-70-1

ISSUE FOR TENDER

Cardno architectus

GATE SCHEDULE

GATE NUMBER	GATE LEAF AND FRAME					GATE HARDWARE	NOTES
	GATE OPERATION	GATE LEAF TYPE	GATE FRAME AND FINISH	GATE HEIGHT	GATE WIDTH	SIGNAGE	
G.01	SINGLE SWING	SCREEN PANEL - TYPE 3	ALUMINIUM FRAME - ANODISED	2040	820	TBC	PERF SCREEN. REFER FINISHES SCHEDULE.
G.02	SINGLE SLIDER	SCREEN PANEL - TYPE 4	STAINLESS STEEL FRAME	1195	1300	TBC	2x GATES. REFER GATE DETAILS DRAWING
G.03	DOUBLE SWING	REFER GATE DETAILS DRAWINGS	STEEL FRAME - GALVANISED	2700	3070	TBC	REFER GATE DETAILS DRAWINGS
G.04	SINGLE SWING	SCREEN PANEL - TYPE 4	STAINLESS STEEL FRAME	1200	850	TBC	1x SWING PONTOON GATE

1	ISSUED FOR TENDER		14-08-20	
	Revisions/Descriptions	Certification	Date	Microfiled

CAD FILES: BIM 360://7905-29 SMBI Ferry Terminal Designs/46700408 - SMBI - Karragarra Island - A - Site and Jetty.rvt

Last Modified :- 17/09/2020 6:31:48 PM

Associated Job Nos

Auxiliary Drg Nos

Survey Data: Datum GDA94; Horiz. Grid MGA Z56; Height Origin; Survey Books

Scales

Dimensions shown in millimetres except where shown otherwise

SOUTHERN MORETON BAY
SOUTHERN MORETON BAY ISLANDS
KARRAGARRA ISLAND

FERRY TERMINALS DESIGN

Drawn Author
Checked Checker
Designed Designer
Design Review Designer
Date 11/08/20

ARCHITECTURAL
LANDSIDE AND JETTY
DOOR AND GATE SCHEDULE

ENGINEERING CERTIFICATION (RPEQ)

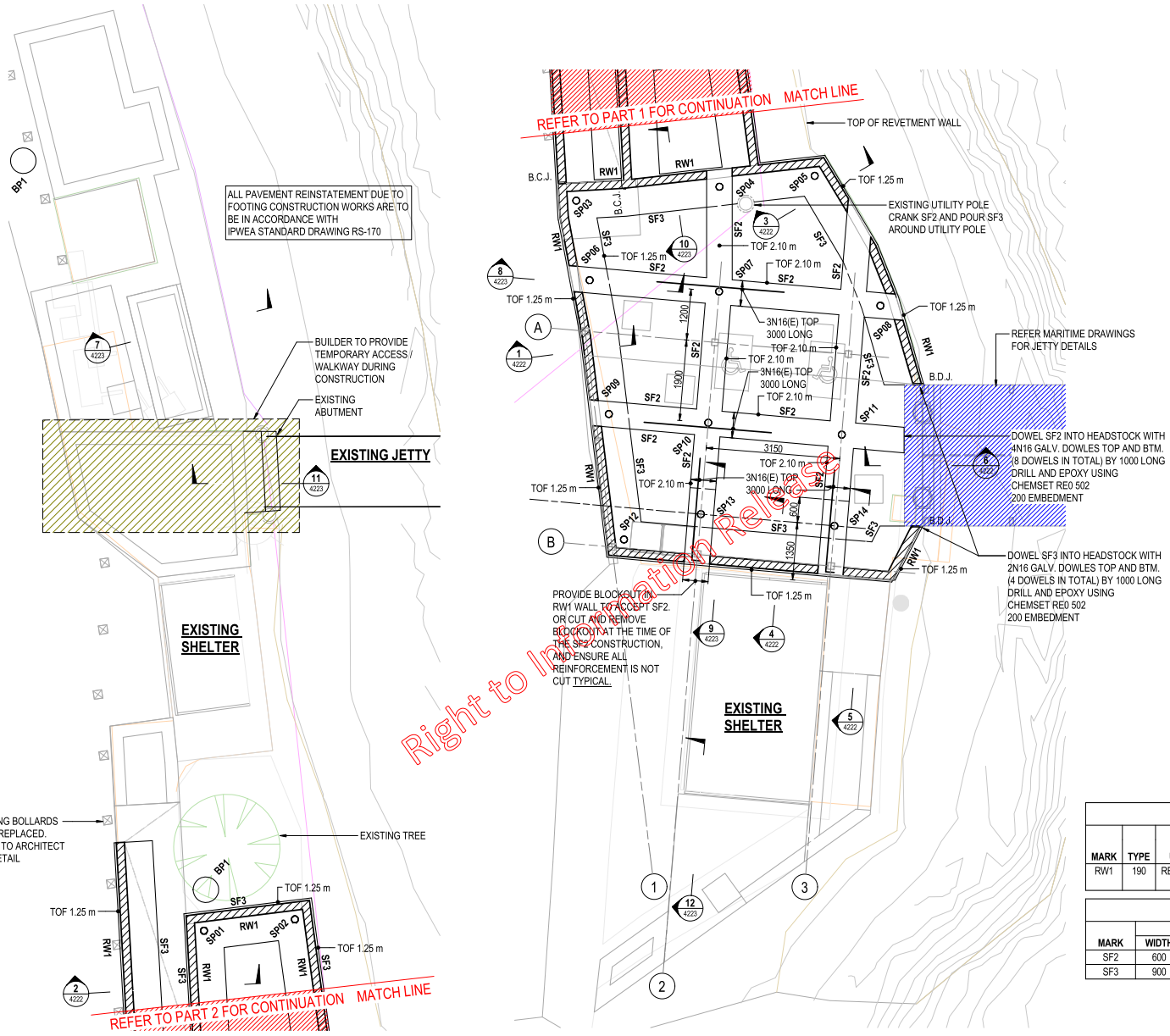
ENG. AREA	NAME	SIGNATURE	NO.	DATE

Queensland Government

File No. 467/00408
Contract. No. CN-12653
Drawing No. 4120 1
Project No. TMR29-130
MRM_Detail (05/14) BN-70-1

ISSUE FOR TENDER

Cardno architectus



Right to Information released

NOTES:

1. FOR ALL RELEVANT CONSTRUCTION NOTES REFER DRAWING No.s 4002 & 4003
2. FOR BULK EARTHWORKS DETAILS REFER DRAWING No.s 4227 & 4228
3. REINFORCEMENT COVER THE CLEAR COVER TO REINFORCEMENT SHALL BE AS FOLLOWS U.N.O.

COMPONENT	COVER (mm) U.N.O.
STRIP FOOTING	65 ALL ROUND TO TIES

4. REINFORCEMNT LAPS BAR LAPS SHALL BE AS FOLLOWS U.N.O.

BAR LAPS FOR FOOTINGS		
BAR SIZE	TOP BAR	BTM. BAR
N12	500	500
N16	700	700
N20	950	950

LEGEND

BCJ DENOTES BLOCK CONTROL JOINT REFER DETAIL

BDJ DENOTES BLOCK DOWEL JOINT REFER DETAIL

BP1 DENOTES UTILITY POLE TO SUPPLIERS DETAIL (REFER ELECTRICAL DRAWINGS FOR DETAILS) ALLOW 600 DIA. x 1800 DEEP BORED PIER 5N20 VERTICAL WITH N12-300 HELIX. N40 CONCRETE **(T.B.C.)**

SP## DENOTES SCREW PILES TO BE DESIGNED BY CERTIFIED BY PILING SUBCONTRACTOR. REFER DETAIL FOR LOADING

BLOCKWORK WALL SCHEDULE

MARK	TYPE	USAGE	REINFORCEMENT VERTICAL	REINFORCEMENT HORIZONTAL	CORE FILL CONCRETE STRENGTH	REMARKS
RW1	190	RETAINING WALL	N16-400	N12-200	N20	ALL REINFORCEMENT CENTRAL

STRIP FOOTING SCHEDULE

MARK	SIZE WIDTH	SIZE DEPTH	REINFORCEMENT TOP BARS	REINFORCEMENT BOTTOM BARS	REINFORCEMENT LIGS	CONCRETE STRENGTH
SF2	600	550	4N16	4N16	N12-300	N40
SF3	900	550	6N16	6N16	N12-300	N40

FOOTING PLAN - PART 1
SCALE 1 : 50

FOOTING PLAN - PART 2
SCALE 1 : 50

0 1000 2000 3000 4000 5000
SCALE 1:50

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REPRODUCTION OR READING IN OTHER THAN FULL COLOUR MAY IMPART FALSE OR MISSING INFORMATION

2	REVISED ISSUED FOR TENDER		01-09-20	
1	ISSUED FOR TENDER		14-08-20	
	Revisions/Descriptions	Certification	Date	Microfiled

CAD FILES | BIM 360://7905-29 SMBI Ferry Terminal Designs/46700408 – SMBI – Karragarra Island – S – LandStruct.rvt

Associated Job Nos
Auxiliary Drg Nos

Survey Data: Datum GDA94; Horiz. Grid MGA Z56; Height Origin; Survey Books

Scales: Dimensions shown in millimetres except where shown otherwise

SOUTHERN MORETON BAY
SOUTHERN MORETON BAY ISLANDS
KARRAGARRA ISLAND

FERRY TERMINALS DESIGN

Drawn FS | Checked JB | Designed JT | Design Review DF | Date 01-09-2020

STRUCTURAL
LANDSIDE SHELTERS
FOOTING PLAN

ENGINEERING CERTIFICATION (RPEQ)

ENG. AREA	NAME	SIGNATURE	NO.	DATE

Queensland Government

File No.	467/00408
Contract. No.	CN-12653
Drawing No.	4201 2
Project No.	TMR29-130
MRM_Detail (05/14)	BN-70-1

Last Modified :- 1/09/2020 8:45:36 PM

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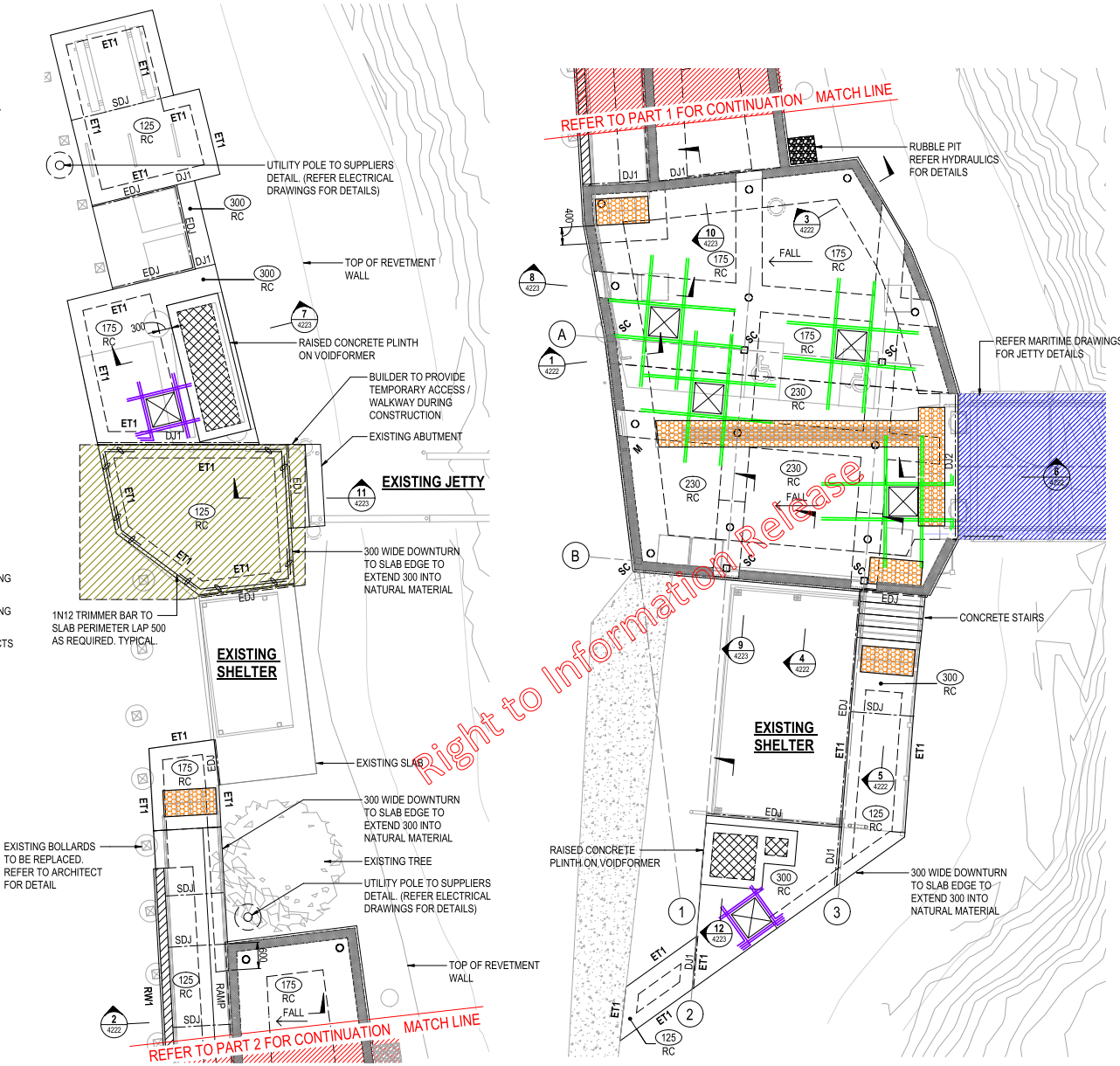
JOINT LEGEND

EDJ	DENOTES EXISTING DOWELLED JOINT
DJ1	DENOTES DOWELLED JOINT - TYPE 1
DJ2	DENOTES DOWELLED JOINT - TYPE 2
IJ	DENOTES ISOLATION JOINT
SDJ	DENOTES SAWN DOWEL JOINT

LEGEND

125 RC	DENOTES THICKNESS OF CONCRETE SLAB ON GROUND ON DPM WITH 1 LAYERS OF SL92 MESH, 45 TOP COVER
175 RC	DENOTES THICKNESS OF CONCRETE SLAB ON GROUND ON DPM WITH 2 LAYERS OF SL92 MESH, 45 TOP COVER AND 55 BTM COVER
230 RC	DENOTES THICKNESS OF CONCRETE SLAB ON GROUND ON DPM WITH 2 LAYERS OF SL92 MESH 45 TOP COVER AND 55 BTM COVER
300 RC	DENOTES THICKNESS OF CONCRETE SLAB ON GROUND ON DPM WITH 2 LAYERS OF SL92 MESH 45 TOP COVER AND 55 BTM COVER
	BLOCKWORK WALL OVER
	LOAD BEARING WALL UNDER
SC#	DENOTES STEEL COLUMN
ET#	DENOTES EDGE THICKENING
BW#	DENOTES BLOCKWORK WALL
	DENOTES TOP OF PROFILE STEP
	DENOTES 2N16 AT 100 CTS x 3000 LONG TRIMMER BARS TOP AND BTM.
	DENOTES 2N12 AT 100 CTS x 1200 LONG TRIMMER BARS TOP
	DENOTES 55 SETDOWN TO ARCHITECTS DETAILS



SLAB PLAN - PART 1
SCALE 1 : 50

SLAB PLAN - PART 2
SCALE 1 : 50

SCALE 1:50

NOTES:

1. FOR ALL RELEVANT CONSTRUCTION NOTES REFER DRAWING No.s 4002 & 4003
2. REFER TO ARCHITECTS DRAWINGS FOR ALL SETOUT, FINISHED FLOOR LEVELS, FALLS AND REBATES TYP. U.N.O.
3. **DESIGN LOADS**

AREA	SUPERIMPOSED DEAD LOAD	LIVE LOAD
CONCOURSE	1.0 kPa	5.0 kPa

4. **CONCRETE**
   ALL WORKMANSHIP, MATERIALS & TESTING SHALL BE IN ACCORDANCE WITH AS 3600 EXCEPT AS VARIED BY THE CONTRACT DOCUMENTS AND SPECIFICATION. ALL CONCRETE COMPONENTS SHALL BE NORMAL CLASS WITH A 28 DAY COMPRESSIVE STRENGTH OF 32MPa (ie.N32) EXCEPT WHERE VARIED BY THE TABLE BELOW.

   N DENOTES NORMAL CLASS CONCRETE WITH THE FOLLOWING PROPERTIES U.N.O.
   MAXIMUM AGGREGATE SIZE:- 20mm
   SLUMP:- 100mm ±15
   TESTING TYPE:- PROJECT ASSESSMENT

   S DENOTES SPECIAL CLASS CONCRETE WITH 650 NOMINAL (700 MAXIMUM) MICROSTRAIN SHRINKAGE AS PER THE CONCRETE SPECIFICATION U.N.O. S32(1) - DENOTES SPECIAL CLASS CONCRETE WITH 650 MICROSTRAIN MAXIMUM SHRINKAGE CONTROL AND HIGH EARLY STRENGTH TO SUIT POST TENSIONING.

COMPONENT	STRENGTH
RELIEVING SLAB	S40
SLAB ON GROUND	S40
COREFILL	N20

5. SLAB ON GROUND HAS BEEN DESIGNED ON THE ASSUMPTION OF A CLASS H1 SITE IN ACCORDANCE WITH AS2870
6. REFER TO THE ARCHITECTURAL DRAWINGS FOR ALL DEMOLITION DETAILS, NEW FINISHED SURFACE LEVELS, SETOUT, DIMENSIONS AND FINISHES.
7. THE CONTRACTOR SHALL ALLOW TO ENGAGE A SURVEYOR TO LOCATE ALL EXISTING SERVICES. THE EXISTING SERVICES NOTED ON THE PLAN ARE APPROXIMATE LOCATIONS ONLY.
8. **REFERENCE DOCUMENTS**

MRTS04	GENERAL EARTHWORKS
MRTS70	CONCRETE
MRTS71	REINFORCING STEELS

This Drawing has been prepared in COLOUR

2	REVISED ISSUE FOR TENDER		01-09-20	
1	ISSUED FOR TENDER		14-08-20	
	Revisions/Descriptions	Certification	Date	Microfiled

CAD FILES | BIM 360://7905-29 SMBI Ferry Terminal Designs/46700408 – SMBI – Karragarra Island – S – LandStruct.rvt

Associated Job Nos
Auxiliary Drg Nos

Survey Data: Datum GDA94; Horiz. Grid MGA Z56; Height Origin; Survey Books

Scales: Dimensions shown in millimetres except where shown otherwise

SOUTHERN MORETON BAY
SOUTHERN MORETON BAY ISLANDS
KARRAGARRA ISLAND

FERRY TERMINALS DESIGN

Drawn	FS
Checked	JB
Designed	JT
Design Review	DF
Date	01-09-2020

STRUCTURAL
LANDSIDE SHELTERS
SLAB PLAN

ENGINEERING CERTIFICATION (RPEQ)

ENG. AREA	NAME	SIGNATURE	NO.	DATE

Queensland Government

File No.	467/00408
Contract. No.	CN-12653
Drawing No.	4205 2
Project No.	TMR29-130
MRM_Detail (05/14)	BN-70-1

Last Modified :- 10/8/2020 8:45:58 PM

ISSUE FOR TENDER

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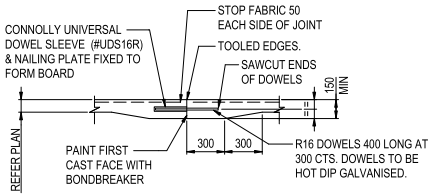
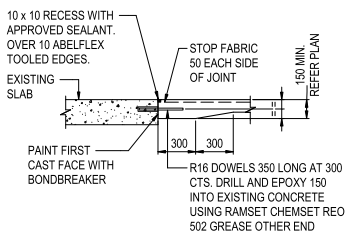
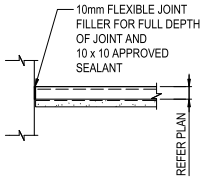


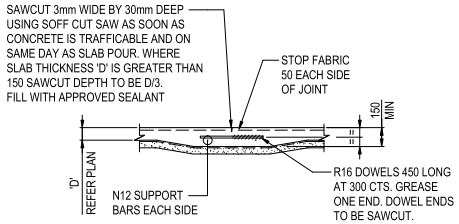
DOWEL JOINT - TYPE 1 (DJ1)
SCALE 1:20
WHERE SLAB THICKNESS IS GREATER THAN 150 NO THICKENING REQUIRED.



EXISTING DOWEL JOINT (EDJ)
SCALE 1:20
WHERE SLAB THICKNESS IS GREATER THAN 150 NO THICKENING REQUIRED.

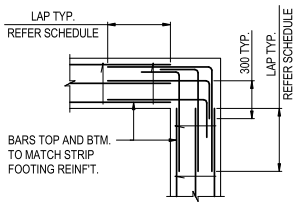


ISOLATION JOINT (IJ)
SCALE 1:20

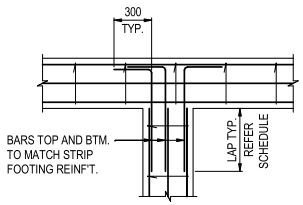


SAWN DOWELLED JOINT (SDJ)
SCALE 1:20
WHERE SLAB THICKNESS IS GREATER THAN 150 NO THICKENING REQUIRED.

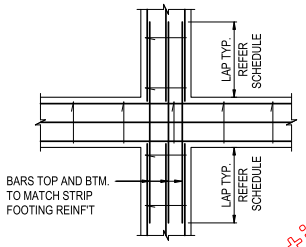
NOTES:
1. FOR ALL RELEVANT CONSTRUCTION NOTES REFER DRAWING No.s 4402 & 4403



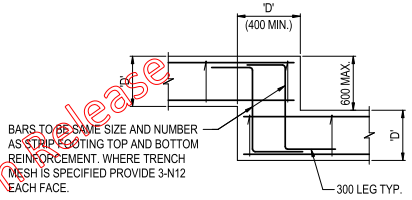
TYPICAL STRIP FOOTING CORNER DETAIL
SCALE 1:20



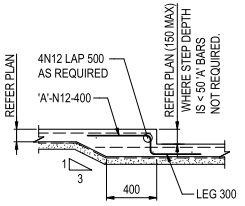
TYPICAL STRIP FOOTING 'T' INTERSECTION DETAIL
SCALE 1:20



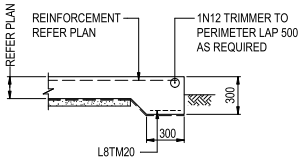
TYPICAL STRIP FOOTING INTERSECTION DETAIL
SCALE 1:20



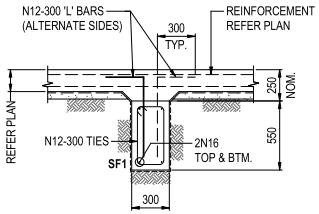
TYPICAL STRIP FOOTING STEP DETAIL STEP < 600
SCALE 1:20



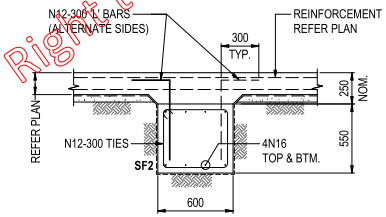
TYPICAL SLAB STEP DETAIL U.N.O.
SCALE 1:20



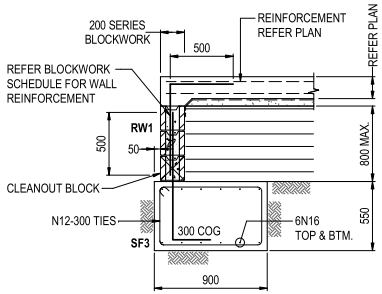
EDGE THICKENING (ET1)
SCALE 1:20



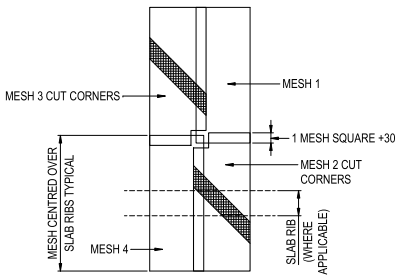
TYPICAL STRIP FOOTING (SF1) DETAIL
SCALE 1:20



TYPICAL STRIP FOOTING (SF2) DETAIL
SCALE 1:20



TYPICAL STRIP FOOTING (SF3) & RETAINING WALL (RW1) DETAIL
SCALE 1:20



TYPICAL MESH LAPPING DETAIL
SCALE 1:20
NOTE: LAP TO BE LOCATED 600 MIN. CLEAR FROM SLAB RIBS

0 400 800 1200 1600 2000
SCALE 1:20

1	ISSUED FOR TENDER		14-08-20	
	Revisions/Descriptions	Certification	Date	Microfiled

CAD FILES | BIM 360://7905-29 SMBI Ferry Terminal Designs/46700408 – SMBI – Karragarra Island – S – LandStruct.rvt

Last Modified: - 17/09/2020 6:16:19 PM

Associated Job Nos	Survey Data		Scales
	Datum	GDA94	
Auxiliary Drg Nos	Horiz. Grid	MGA Z56	
	Height Origin		
	Survey Books		Dimensions shown in millimetres except where shown otherwise

SOUTHERN MORETON BAY
SOUTHERN MORETON BAY ISLANDS
KARRAGARRA ISLAND

FERRY TERMINALS DESIGN

Drawn	FS
Checked	JB
Designed	JT
Design Review	DF
Date	14-08-2020

STRUCTURAL
LANDSIDE SHELTERS
FOOTING AND SLAB DETAILS SHEET 1

ENGINEERING CERTIFICATION (RPEQ)

ENG. AREA	NAME	SIGNATURE	NO.	DATE

Queensland Government

File No.	467/00408
Contract. No.	CN-12653
Drawing No.	4220 | 1
Project No.	TMR29-130
MRM_Detail (05/14)	BN-70-1

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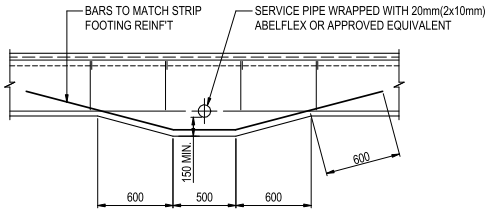
NOTES:

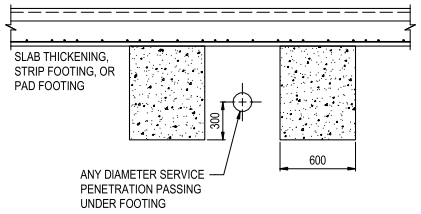
1. FOR ALL RELEVANT CONSTRUCTION NOTES REFER DRAWING No.s 4402 & 4403



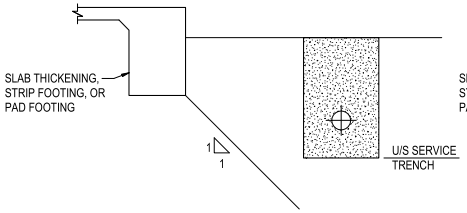
PENETRATION DETAIL FOR SERVICE PIPE PASSING THROUGH LOWER THIRD OF STRIP FOOTING

FOR PIPES RELEVANT TO THIS DETAIL REFER TO HYDRAULIC ENGINEERS DRAWINGS

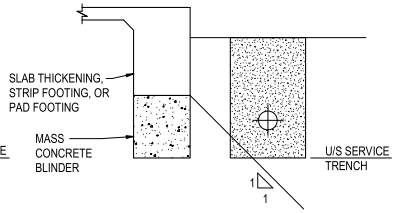
SCALE 1:20



ADDITIONAL MASS CONCRETE PIERS REQUIRED



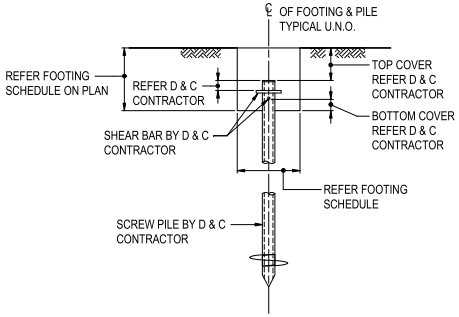
SERVICE TRENCH ADJACENT TO FOOTING. NO TREATMENT REQUIRED



SERVICE TRENCH IMMEDIATELY ADJACENT TO FOOTING. ADDITIONAL MASS CONCRETE BLINDER REQUIRED

SERVICE PENETRATION DETAILS

SCALE 1:20

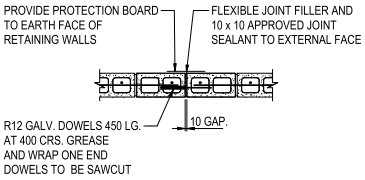


SCREW PILE LOAD SCHEDULE

MARK	ULS LOAD (kN)	ULS UPLIFT (kN)
SP01	125	-
SP02	125	-
SP03	200	-
SP04	450	-
SP05	125	-
SP06	225	-
SP07	300	-
SP08	225	-
SP09	275	-
SP10	300	-
SP11	200	-
SP12	125	-
SP13	300	-
SP14	300	-

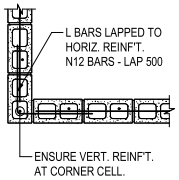
TYPICAL SCREW PILE TO STRIP FOOTING DETAIL

SCALE 1:20



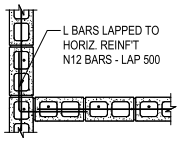
BLOCKWALL CONTROL JOINT (B.C.J.) DETAIL

SCALE 1:20



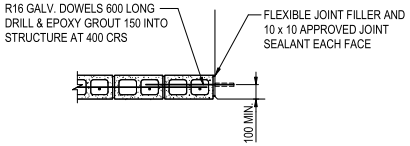
CORNER DETAIL

SCALE 1:20



INTERSECTION DETAIL

SCALE 1:20



BLOCKWALL DOWEL JOINT (B.D.J.) DETAIL

TYP. to COLUMNS / INSITU WALL / EXIST. STRUCTURES.

SCALE 1:20

0 400 800 1200 1600 2000

SCALE 1:20

1	ISSUED FOR TENDER		14-08-20	
	Revisions/Descriptions	Certification	Date	Microfiled

CAD FILES | BIM 360://7905-29 SMBI Ferry Terminal Designs/46700408 – SMBI – Karragarra Island – S – LandStruct.rvt

Associated Job Nos

Auxiliary Drg Nos

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Scales: Dimensions shown in millimetres except where shown otherwise

SOUTHERN MORETON BAY
SOUTHERN MORETON BAY ISLANDS
KARRAGARRA ISLAND

FERRY TERMINALS DESIGN

Drawn	FS
Checked	JB
Designed	JT
Design Review	DF
Date	14-08-2020

STRUCTURAL
LANDSIDE SHELTERS
FOOTING AND SLAB DETAILS SHEET 2

ENGINEERING CERTIFICATION (RPEQ)

ENG. AREA	NAME	SIGNATURE	NO.	DATE

Queensland Government

File No.	467/00408
Contract. No.	CN-12653
Drawing No.	4221 | 1
Project No.	TMR29-130
MRM_Detail (05/14)	BN-70-1

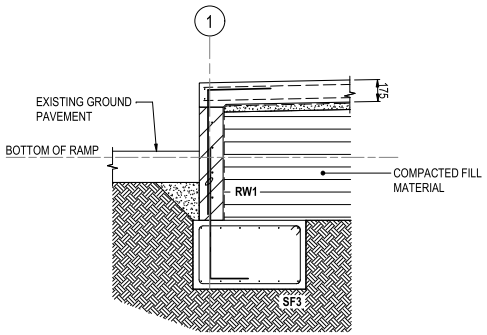
Last Modified: - 17/09/2020 6:16:27 PM

ISSUE FOR TENDER

Cardno architectus

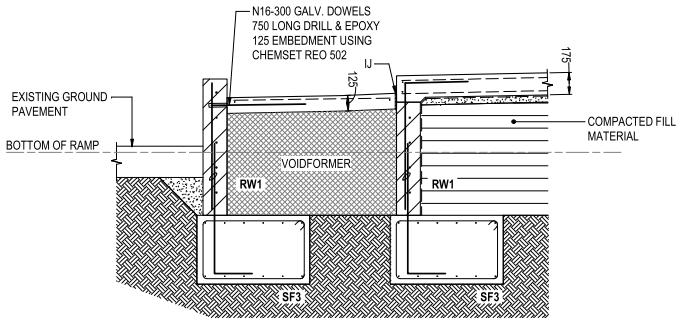
NOTES:

1. FOR ALL RELEVANT CONSTRUCTION NOTES REFER DRAWING No.s 4402 & 4403

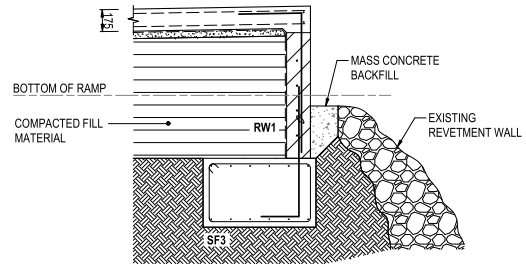


SECTION 1 / 4201
SCALE 1 : 20

ALL PAVEMENT REINSTATEMENT DUE TO FOOTING CONSTRUCTION WORKS ARE TO BE IN ACCORDANCE WITH IPWEA STANDARD DRAWING RS-170



SECTION 2 / 4201
SCALE 1 : 20



SECTION 3 / 4201
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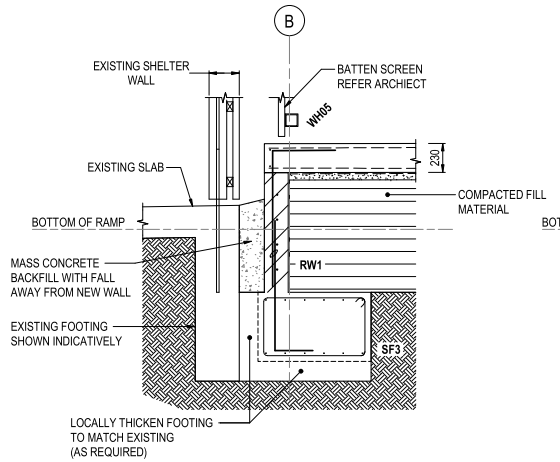
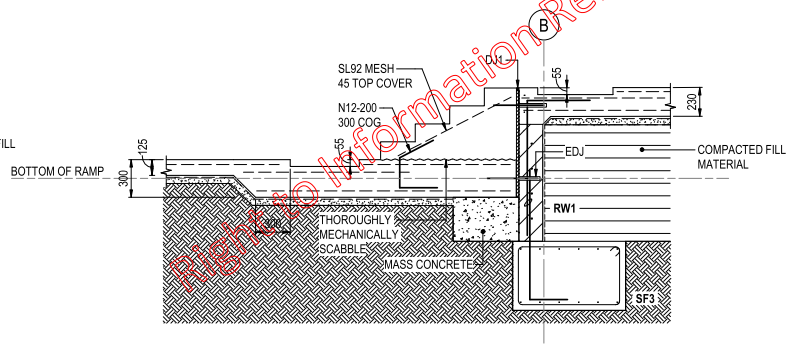


SECTION 4 / 4201
SCALE 1 : 20



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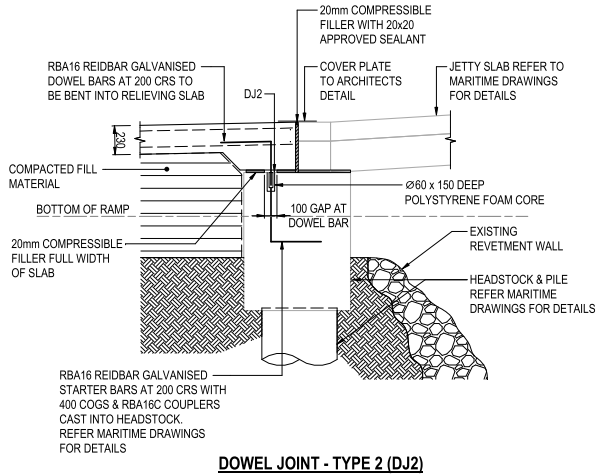

DOWEL JOINT - TYPE 2 (DJ2)

SECTION 6 / 4201
SCALE 1:20

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1	ISSUED FOR TENDER		14-08-20	
	Revisions/Descriptions	Certification	Date	Microfiled

CAD FILES | BIM 360://7905-29 SMBI Ferry Terminal Designs/46700408 – SMBI – Karragarra Island – S – LandStruct.rvt

Last Modified: - 17/09/2020 6:16:39 PM

Associated Job Nos		Survey Data	
		Datum	GDA94
Auxiliary Drg Nos		Horiz. Grid	MGA Z56
		Height Origin	
		Survey Books	

Scales
Dimensions shown in millimetres except where shown otherwise

SOUTHERN MORETON BAY
SOUTHERN MORETON BAY ISLANDS
KARRAGARRA ISLAND

FERRY TERMINALS DESIGN

Drawn	FS
Checked	JB
Designed	JT
Design Review	DF
Date	14-08-2020

STRUCTURAL
LANDSIDE SHELTERS
FOOTING AND SLAB DETAILS SHEET 3

ENGINEERING CERTIFICATION (RPEQ)

ENG. AREA	NAME	SIGNATURE	NO.	DATE

Queensland Government

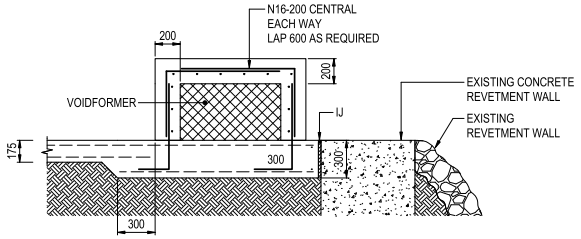
File No.	467/00408
Contract. No.	CN-12653
Drawing No.	4222 / 1
Project No.	TMR29-130
MRM_Detail (05/14)	BN-70-1

ISSUE FOR TENDER

Cardno architectus

NOTES:

1. FOR ALL RELEVANT CONSTRUCTION NOTES REFER DRAWING No.s 4402 & 4403



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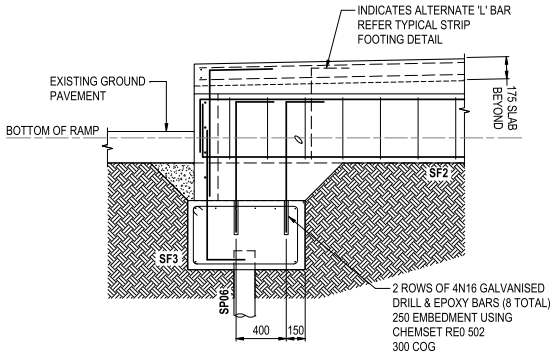

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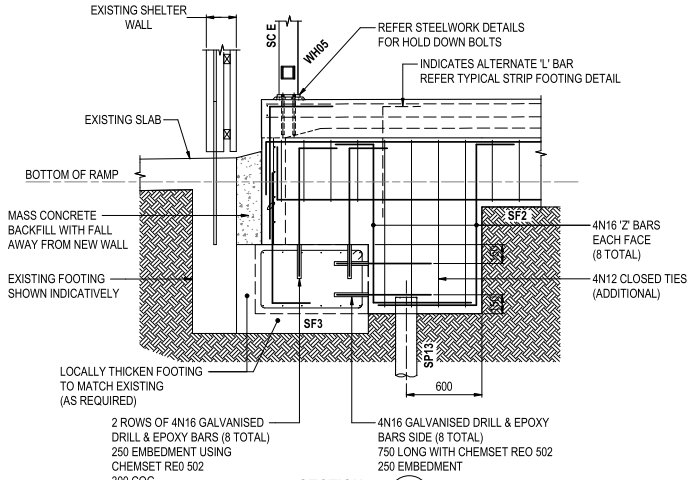

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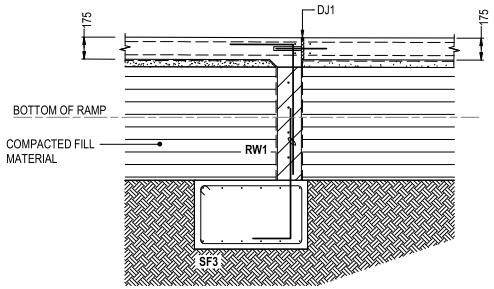

SECTION 10
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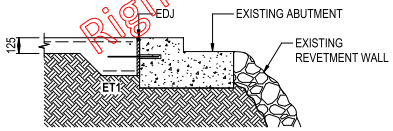

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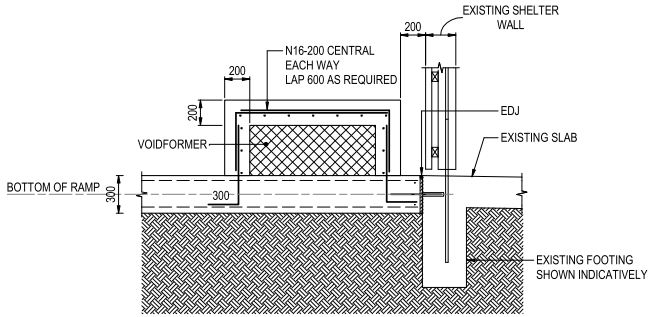

SECTION 12
SCALE 1 : 20 4201

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SCALE 1:20

2	REVISED ISSUE FOR TENDER		01-09-20	
1	ISSUED FOR TENDER		14-08-20	
	Revisions/Descriptions	Certification	Date	Microfiled

Associated Job Nos

Auxiliary Drg Nos

Survey Data: Datum GDA94; Horiz. Grid MGA Z56; Height Origin; Survey Books

Scales

Dimensions shown in millimetres except where shown otherwise

SOUTHERN MORETON BAY
SOUTHERN MORETON BAY ISLANDS
KARRAGARRA ISLAND

FERRY TERMINALS DESIGN

Drawn FS
Checked JB
Designed JT
Design Review DF
Date 01-09-2020

STRUCTURAL
LANDSIDE SHELTERS
FOOTING AND SLAB DETAILS SHEET 4

ENGINEERING CERTIFICATION (RPEQ)

ENG. AREA	NAME	SIGNATURE	NO.	DATE

Queensland Government

File No.	467/00408
Contract. No.	CN-12653
Drawing No.	4223 2
Project No.	TMR29-130
MRM_Detail (05/14)	BN-70-1

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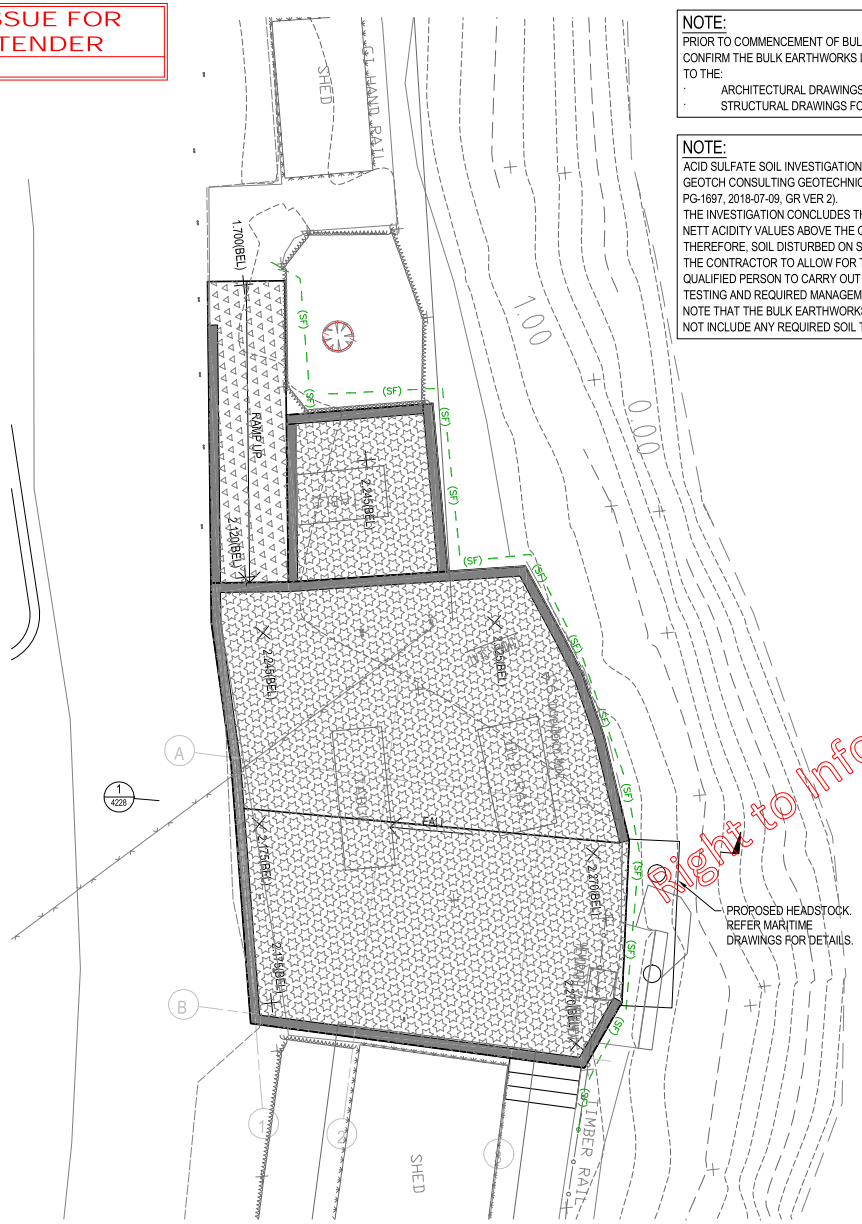
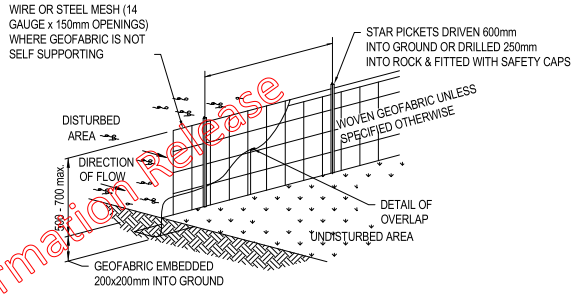
NOTE:
PRIOR TO COMMENCEMENT OF BULK EARTHWORKS, THE CONTRACTOR TO CONFIRM THE BULK EARTHWORKS LEVELS SHOWN ON THIS DRAWING, REFER TO THE:
- ARCHITECTURAL DRAWINGS FOR FINISHED SURFACE / FLOOR LEVELS,
- STRUCTURAL DRAWINGS FOR SLAB THICKNESS AND DETAILS.

NOTE:
ACID SULFATE SOIL INVESTIGATION HAS BEEN CARRIED OUT BY PACIFIC GEOTCH CONSULTING GEOTECHNICAL ENGINEERS (FILE REFERENCE: PG-1697, 2018-07-09, GR VER 2).
THE INVESTIGATION CONCLUDES THAT ALL TESTED SAMPLES RETURNED NETT ACIDITY VALUES ABOVE THE QASSIT DEFINED ACTION CRITERIA. THEREFORE, SOIL DISTURBED ON SITE SHOULD BE TREATED.
THE CONTRACTOR TO ALLOW FOR THE ENGAGEMENT OF A SUITABLY QUALIFIED PERSON TO CARRY OUT ALL REQUIRED ACID SULFATE SOIL TESTING AND REQUIRED MANAGEMENT PLAN TO TREAT DISTURBED SOILS.
NOTE THAT THE BULK EARTHWORKS LEVELS SHOWN ON THIS DRAWING DO NOT INCLUDE ANY REQUIRED SOIL TREATMENT.

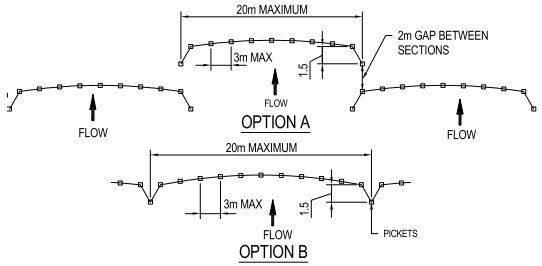
NOTE:
THIS DRAWING PROVIDES A CONCEPT SEDIMENT AND EROSION CONTROL PLAN ONLY. THE CONTRACTOR SHALL PREPARE A PLAN TO ADDRESS ALL SEDIMENT AND EROSION CONTROL MEASURES IN ACCORDANCE WITH BEST PRACTICE EROSION AND SEDIMENT CONTROL GUIDELINES FOR AUSTRALIA (INTERNATIONAL EROSION CONTROL ASSOCIATION) TO BE INSTALLED AND MAINTAINED TO PREVENT THE RELEASE OF SEDIMENT TO TIDAL WATERS.



LAYOUT
SCALE 1:50



SEDIMENT FILTER FENCE ISOMETRIC DETAIL
N.T.S.



SEDIMENT FILTER FENCE CONTOUR LAYING OPTIONS N.T.S
N.T.S.

REFER DRAWING 46700408-4228 FOR BULK EARTHWORKS AND EROSION AND SEDIMENT CONTROL NOTES.

LEGEND

DESIGN

- +2.020(BEL) — PROPOSED BULK EARTHWORKS LEVEL
- 225 SLAB ON GROUND — REFER STRUCTURAL DWGS FOR DETAILS
- 175 SLAB ON GROUND — REFER STRUCTURAL DWGS FOR DETAILS
- 125 SLAB ON GROUND — REFER STRUCTURAL DWGS FOR DETAILS
- 150 SLAB ON GROUND — REFER STRUCTURAL DWGS FOR DETAILS
- (SF) — SEDIMENT FENCE
- TREE TRUNK PROTECTION

EXISTING

- EXISTING MAJOR CONTOUR
- EXISTING MINIMUM CONTOUR
- EXISTING KERB & CHANNEL
- EXISTING WATER MAIN
- EXISTING SEWER MAIN
- ELECTRICAL (OVER HEAD)
- EXISTING TELSTRA
- EXISTING OPTIC FIBRE
- EXISTING STORMWATER
- EXISTING PROPERTY BOUNDARY
- EXISTING PROPERY BOUNDARY (DCDB)
- EXISTING GARDEN EDGE
- EXISTING RETAINING WALL
- EXISTING SIGN
- SE — EXISTING SEWER MANHOLE
- PP — EXISTING POWER POLE
- TE — EXISTING TELECOMMUNICATIONS PIT
- EL — EXISTING ELECTRICAL PIT
- WM — EXISTING WATER METER
- FH — EXISTING FIRE HYDRANT
- WV — EXISTING WATER VALVE
- EXISTING GULLY PIT
- MH SW — EXISTING STORM WATER MANHOLE
- EXISTING SPOT HEIGHT
- EXISTING TREE

0 1000 2000 3000 4000 5000
SCALE 1:50

This Drawing has been prepared in COLOUR
REPRODUCTION OR READING IN OTHER THAN FULL COLOUR MAY IMPART FALSE OR MISSING INFORMATION

1	ISSUED FOR TENDER		14-08-20	
	Revisions/Descriptions	Certification	Date	Microfiled

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CAD FILES | BIM 360://7905-29 SMBI Ferry Terminal Designs/46700408 – SMBI – Karragarra Island – S – LandStruct.rvt

Associated Job Nos	Survey Data	Scales
	Datum: GDA94	
Auxiliary Drg Nos	Horiz. Grid: MGA Z56	
	Height Origin:	
	Survey Books:	Dimensions shown in millimetres except where shown otherwise

SOUTHERN MORETON BAY
SOUTHERN MORETON BAY ISLANDS
KARRAGARRA ISLAND

FERRY TERMINALS DESIGN

Drawn	FS
Checked	JB
Designed	JT
Design Review	DF
Date	14-08-2020

STRUCTURAL
LANDSIDE SHELTERS
BULK EARTHWORKS SHEET 1

ENGINEERING CERTIFICATION (RPEQ)

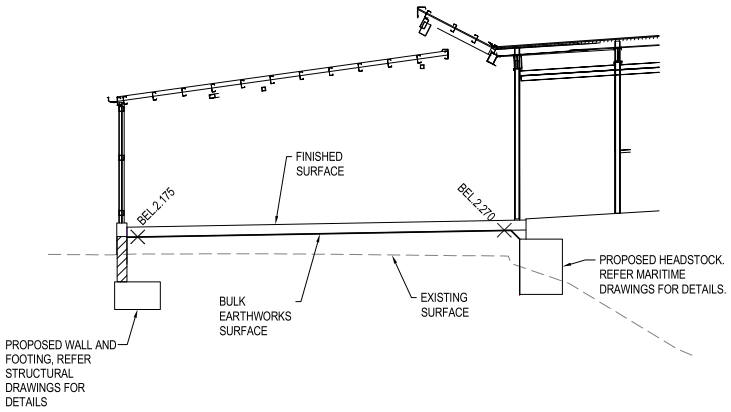
ENG. AREA	NAME	SIGNATURE	NO.	DATE

Queensland Government

File No.	467/00408
Contract. No.	CN-12653
Drawing No.	4227 | 1
Project No.	TMR29-130
MRM_Detail (05/14)	BN-70-1

ISSUE FOR TENDER

Cardno architectus



SECTION 1 / 4227
SCALE 1:50

EROSION MANAGEMENT NOTES:

1. ALL PERIMETER BANKS/SWALES SHALL HAVE UNINTERRUPTED POSITIVE GRADE TO AN OUTLET;
2. AT ALL TIMES THE CONTRACTOR SHALL MONITOR THE PREVAILING WEATHER CONDITIONS AND PROTECT ANY DOWNSTREAM CONSTRUCTION AND GULLY INLETS;
3. DURING CONSTRUCTION, ALL INLETS TO HAVE SILT PROTECTION IN ACCORDANCE WITH KERB INLET PROTECTION DETAIL AT LOCATIONS SHOWN OR AS DIRECTED BY THE ENGINEER;
4. THE EXTENT OF GRASSING SHALL BE DETERMINED BY THE PROJECT SUPERINTENDENT;
5. DUMPED ROCK SHALL NOT BE LESS THAN THE NOMINATED d50. IF THE NOMINATED SIZE IS NOT AVAILABLE, USE NEXT LARGER AVAILABLE SIZE APPROVED BY SUPERINTENDENT;

TOPSOIL STOCKPILE NOTES:

1. TOPSOIL TO BE TRANSPORTED IN DAMP CONDITION TO RETAIN SOIL STRUCTURE;
2. TOPSOIL STOCKPILES TO BE LOW FLAT LONG MOUNDS 2m HIGH MAX;
3. STOCKPILES SHALL HAVE DIVERSION DRAINS ON THE UP-SLOPE SIDES AND SILT FENCES ON THE DOWN-SLOPE SIDES;

SILT MANAGEMENT PROGRAM:

CLEARING	-EARTH BANK AND TABLE DRAIN TO BE CONSTRUCTED ALONG THE TOP OF THE EXTENT OF CLEARING FOR CLEAN WATER DIVERSION. -SILT FENCE, SAND BAGS AND EARTH BUNDS TO BE ERECTED AS INDICATED OR REQUIRED. -EXISTING GRASSED AREAS TO BE KEPT WHERE POSSIBLE. - BARRIER FENCING TO BE ERECTED AROUND ALL NON-DISTURBED AREAS TO PREVENT ACCESS BY CONSTRUCTION MACHINERY.
EARTHWORKS	-SILT FENCES AND EARTH BUNDS WITHIN ROADS TO BE ERECTED AS INDICATED OR REQUIRED. - HYDRO MULCHING OF ALL DISTURBED AREAS UNLESS NOTED OTHERWISE TO OCCUR WITHIN 48 HOURS OF REACHING FINISHED SURFACE. - AN ADEQUATE SUPPLY OF GEOTEXTILE MATERIAL SHOULD BE KEPT ON SITE TO ENSURE THE DISTURBED AREA CAN BE PHYSICALLY COVERED IN THE EVENT OF A HIGH INTENSITY RAINFALL EVENT PRIOR TO THE HYDRO MULCHING OCCURRING. -ALL VERGES TO BE TOP SOILED AND TURFED WITHIN 48 HOURS OF REACHING FINISHED SURFACE.
MAINTENANCE	-THE SILT FENCES ARE TO BE INSPECTED WEEKLY. ANY REPAIRS REQUIRED ARE TO BE EFFECTED IMMEDIATELY. -AFTER RAIN SILT IS TO BE CLEARED FROM ROADWAYS AND FOOTPATHS IMMEDIATELY AND CORRECTIVE ACTION TAKEN TO AVOID A REOCCURRENCE OF THE FAILURE. - SEDIMENT BASIN TO BE DOSED WITH FLOCCULANT, WITH TYPE AND RATE TO BE DETERMINED BY CONTRACTOR ON SITE AFTER EACH RAIN EVENT.

EARTHWORKS NOTES

1. STRIP THE CONSTRUCTION AREA OF ALL GRASS, SHRUBS, RUBBISH, DELETERIOUS MATERIAL, UNSUITABLE TOPSOIL AND ALL UNCONTROLLED FILL MATERIAL AS NOMINATED BY THE ENGINEER. DISPOSE OF ALL SUCH MATERIAL OFF SITE.
2. TOPSOIL AND UNCONTROLLED FILL APPROVED BY THE ENGINEER FOR REUSE, IS TO BE STOCKPILED ON SITE AS DIRECTED BY THE ENGINEER.
3. BULK EARTHWORKS IS TO BE CARRIED OUT IN ACCORDANCE WITH LOCAL COUNCIL STANDARDS AND THE REQUIREMENTS OF AS3798. GEOTECHNICAL SUPERVISION OF EARTHWORKS IS TO BE CARRIED OUT IN ACCORDANCE WITH THE EARTHWORKS SPECIFICATION BY A N.A.T.A. REGISTERED GEOTECHNICAL TESTING AUTHORITY AT THE CONTRACTORS COST. THE CONTRACTOR SHALL PROVIDE DETAILS OF ALL TESTING TO THE ENGINEER PROGRESSIVELY THROUGH THE WORKS AND NOTIFY THE ENGINEER OF ANY NON-CONFORMANCES. ALL NON CONFORMING WORK IS TO BE RECTIFIED AS DIRECTED BY THE ENGINEER.
4. PRIOR TO FILL OPERATIONS AND IN THE PRESENCE OF THE ENGINEER, PROOF ROLL THE FILL AREA SUBGRADE. REMOVE SOFT AND OR COMPRESSIBLE ZONES AND REPLACE WITH SELECT SITE MATERIAL COMPACTED TO A DENSITY CONSISTENT WITH THAT PRESCRIBED FOR PROPOSED FILLING ABOVE.
5. THE MAJORITY OF MATERIALS WON FROM PROPOSED EXCAVATIONS SHOULD BE SUITABLE FOR REUSE AS FILL MATERIAL APART FROM ANY OVERSIZE MATERIAL. MATERIALS SHALL BE FREE OF ORGANIC MATTER AND DELETERIOUS MATERIAL AND IN SUITABLY MOISTURE CONDITIONS. SUITABLE MATERIALS FOR FILLING SHOULD HAVE A MAXIMUM PARTICLE SIZE NOT EXCEEDING 75mm. OVERSIZE MATERIAL IS TO BE EITHER CRUSHED TO A PARTICLE SIZE =/< 75mm FOR REUSE AS FILL MATERIAL OR DISPOSED OF OFF-SITE. IT IS LIKELY THAT THE MATERIAL WON FROM PROPOSED EXCAVATIONS WILL REQUIRE CONDITIONING TO BRING IT TO OPTIMUM CONDITIONS. IF THE MATERIALS ARE OVERLY MOIST AND DIFFICULTY IN ACHIEVING COMPACTION IS ENCOUNTERED, THEN MATERIAL MOISTURE CONDITIONING WILL BE REQUIRED OR IMPORTED FILL USED.
6. PLACE FILL IN LAYERS OF LOOSE THICKNESS APPROPRIATE TO THE TYPE OF COMPACTION EQUIPMENT BEING USED AND NOT GREATER THAN 250mm. COMPACT EACH FILLING LAYER TO A DRY DENSITY RATIO OF 98% STANDARD IN ACCORDANCE WITH AS1289.5.1.1 OR TO AN ALTERNATIVE COMPACTION SPECIFICATION FOR IMPORTED CRUSHED ROCK. THE MOISTURE CONTENT OF FILL MATERIAL SHOULD BE MAINTAINED WITHIN THE RANGE OF -1% TO +2% OF THE OPTIMUM MOISTURE CONTENT.
7. EARTHWORKS PROFILES ARE TO BE TRANSITIONED UNIFORMLY BETWEEN PRESCRIBED SLOPES.
8. FOLLOWING COMPLETION OF BULK EARTHWORKS OPERATIONS THE CONTRACTOR IS TO NOTIFY THE ENGINEER. THE FINISHED SURFACE IS TO BE PROOF ROLLED IN THE PRESENCE OF THE ENGINEER PRIOR TO TOPSOILING.
9. STOCKPILED TOPSOIL IS TO BE SPREAD TO AN EVEN 100mm THICKNESS OVER ALL BATTERS AND SURROUNDING AREAS DISTURBED BY CONSTRUCTION ACTIVITIES. THE CONTRACTOR IS TO DISPOSE OF EXCESS TOPSOIL OFF SITE. ALL DISTURBED AREAS TO BE GRASS SEEDED TO ACHIEVE 80% GRASS COVER.
10. IT IS THE CONTRACTORS RESPONSIBILITY TO PROTECT THE SITE AND SURROUNDING AREAS FROM DAMAGE RESULTING FROM STORMWATER RUNOFF. TEMPORARY DIVERSION DRAINS AND OR OTHER DRAINAGE CONTROL DEVICES ARE TO BE IMPLEMENTED BY THE CONTRACTOR DURING CONSTRUCTION TO MINIMISE THE EFFECTS OF WEATHER. NO EXTENSIONS OF TIME WILL BE GRANTED SHOULD DAMAGE TO THE WORKS AND SURROUNDING AREAS RESULT FROM THE CONTRACTOR'S NEGLIGENCE IN NOT PROVIDING ADEQUATE PROTECTION.
11. IMPORTED FILL IMPORTED FILL MATERIAL IF ORDERED, SHALL BE LOW PLASTICITY GRANULAR FILL HAVING THE FOLLOWING CHARACTERISTICS:

MINIMUM CBR	10%
PLASTICITY INDEX	20% MAXIMUM
%PASSING 75mm SIEVE	100%
%PASSING 19mm SIEVE	80% MINIMUM
%PASSING 0.075mm SIEVE	30% MAXIMUM
LIQUID LIMIT	45% MAXIMUM
SHRINK/SWELL INDEX	1.0% MAXIMUM

12. EXCESS SPOIL MATERIAL GENERATED DURING CONSTRUCTION IS TO BE REMOVED FROM THE SITE BY THE CONTRACTOR.
13. ALL FILL MATERIAL PLACED ON THE SITE COMPRISING ONLY NATURAL EARTH AND ROCK IS TO BE FREE OF CONTAMINANTS (AS DEFINED BY SECTION 11 OF THE ENVIRONMENTAL PROTECTION ACT 1994), NOXIOUS, HAZARDOUS, DELETERIOUS AND ORGANIC MATERIALS. SUITABLE FILL MATERIAL IS DEEMED TO COMPLY WITH THE REQUIREMENTS OF CLAUSE 4.3, AS3798, GUIDELINES ON EARTHWORKS FOR COMMERCIAL AND RESIDENTIAL DEVELOPMENTS.

EROSION AND SEDIMENT CONTROL NOTES:

1. ALL SEDIMENT AND EROSION CONTROL DEVICES SHALL BE INSTALLED IN ACCORDANCE WITH IECA BEST PRACTICE EROSION AND SEDIMENT CONTROL GUIDELINE OR AS DETAILED ON THIS PLAN, OR AS REQUIRED FOR COMPLIANCE WITH THE REQUIREMENTS OF THE CONSTRUCTION ENVIRONMENTAL MANAGEMENT PLAN;
2. THE CONTRACTOR IS RESPONSIBLE FOR ENSURING EROSION AND SEDIMENT CONTROL DEVICES ARE INSPECTED AND MAINTAINED AS FOLLOWS:
   - A. DAILY CONSTRUCTION
     - (I) DAILY DURING DRY WEATHER
     - (II) PRIOR TO PREDICTED STORM EVENTS
     - (III) TWICE DAILY DURING PROLONGED RAIN
     - (IV) DURING AND AFTER MAJOR STORM EVENTS
   - B. DURING DEFECTS LIABILITY PERIOD
     - (I) WEEKLY DURING DRY WEATHER
     - (II) PRIOR TO PREDICTED STORM EVENTS
     - (III) TWICE WEEKLY DURING PROLONGED RAIN
     - (IV) DURING AND AFTER MAJOR STORM EVENTS
3. EROSION AND SEDIMENT CONTROL DEVICES (OTHER THAN THOSE DETAILED) SHALL BE INSTALLED WHERE NECESSARY AND AS DIRECTED ON SITE BY THE SUPERINTENDENT;
4. EROSION AND SEDIMENT CONTROL DEVICES ON THESE PLANS ARE INDICATIVE ONLY. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO ENSURE THAT THE INTENTS OF THESE PLANS AND THE CONSTRUCTION ENVIRONMENTAL MANAGEMENT PLAN AND THE SOIL SCIENTIST'S RECOMMENDATIONS ARE COMPLIED WITH;
5. EROSION AND SEDIMENT CONTROL DEVICES/STRATEGIES SHALL BE IMPLEMENTED PRIOR TO DISTURBANCE OF THE SITE, AND SHALL REMAIN IN PLACE UNTIL PERMANENT WORKS ARE COMPLETED AND CATCHMENT VEGETATION IS ESTABLISHED (75% GRASS COVER, MINIMUM);
6. ALL DISTURBED AREAS TO BE HYDROSEEDED & MULCHED AS SPECIFIED AS SOON AS WORKS ARE COMPLETED WITHIN 7 DAYS OF FINAL TRIMMING OF EARTHWORKS;
7. THE CONTRACTOR IS RESPONSIBLE FOR EROSION CONTROL AND DOWNSTREAM SEDIMENTATION DURING ALL STAGES OF CONSTRUCTION INCLUDING THE MAINTENANCE PERIOD;
8. AREAS OF WORKS THAT REQUIRE DISTURBANCE OF SOIL SHALL BE KEPT TO A MINIMUM TO LIMIT THE EXPOSURE OF SOIL TO RAIN-DROP IMPACT AND OTHER FORMS OF WIND/STORMWATER EROSION;
9. ALL STOCKPILES SHALL BE TEMPORARILY GRASSED AND GRADED TO ENSURE CONTROL OF RUNOFF. ALTERNATIVELY, SEDIMENT FENCES TO THE DOWNSTREAM FACE OF STOCKPILES SHALL BE INSTALLED, WITH CUT-OFF DRAINS UPSTREAM;
10. ON SEEDED OR EXPOSED EARTH SURFACES, EROSION PROTECTION IN THE FORM OF SURFACE ROUGHENING TO INCREASE INFILTRATION AND DELAY THE FORMATION OF RUTTING SHALL BE USED;
11. ALL TEMPORARY SWALES, CUT-OFF DRAINS AND BUNDS TO BE LINED WITH TURF OR 200mm THICK MATERIAL OF EMERSON CLASS 4 OR GREATER;
12. GRASS FILTER STRIPS 0.6m MIN WIDE SHALL BE PLACED ALONG BACK OF KERB AND CHANNEL, PATHWAYS AND OTHER IMPERVIOUS AREAS WITH 0.4m LATERAL TURF STRIPS PROVIDED AT 5.0m MAX SPACINGS. LOCATIONS SHALL BE CONFIRMED BY CONTRACTOR;
13. SUFFICIENT STOCKPILES OF MULCH/JUTE MATE/FLOCCULANT MUST BE RETAINED ON SITE AT ALL TIMES TO ENABLE ONGOING EROSION AND SEDIMENT CONTROL;
14. ALL SEDIMENT CONTROL DEVICES SHALL BE MONITORED AND CLEARED AND/OR REPAIRED WHENEVER THE ACCUMULATED SEDIMENT REDUCES THE CAPACITY BY 50%. MAINTENANCE OF DEVICES TO CONTINUE UNTIL SITE IS STABILISED;
15. RECORDS OF REPRESENTATIVE SAMPLING OF TSS, TURBIDITY & PH OF ANY FLOWS RELEASED FROM THE SEDIMENT BASINS IS TO BE MAINTAINED;
16. DUST CONTROL SCREENS SHALL BE CONSTRUCTED AROUND PERIMETER OF WORKS AS DIRECTED;
17. SEDIMENT BASINS SHALL BE CONSTRUCTED AT PRIMARY STAGES OF SITE EARTHWORKS AND DECOMMISSIONED ONCE SITE IS SUITABLY STABILISED;

DUST SUPPRESSION NOTES:

THE CONTRACTOR IS RESPONSIBLE FOR THE CONTROL OF ALL DUST EMISSIONS DURING ALL EARTHWORKS OPERATIONS. THE FOLLOWING LIST OF MEASURES MAY INCLUDE, BUT NOT BE LIMITED TO:

1. WATER TRUCKS OPERATING AS WARRANTED;
2. PRIOR TO COMMENCEMENT OF BULK EARTHWORKS, THE CONTRACTOR IS RESPONSIBLE FOR THE INSTALLATION OF A SPRINKLER SYSTEM IF WATER TRUCK OPERATION IS NOT ABLE TO BE UNDERTAKEN. A 100mm MINIMUM DIAMETER PRESSURE MAIN IS TO BE LAID, THE EXACT ALIGNMENT TO BE DETERMINED ON SITE BY THE SUPERVISING ENGINEER.
   A DIESEL PUMP WITH PRESSURE REDUCING VALVE WILL OPERATE DURING BULK EARTHWORKS. VALVES WILL BE LOCATED AT 100m INTERVALS ALONG THE MAIN FROM WHICH 'EASYSHIFT' SPRINKLERS (OR APPROVED EQUIVALENT) CONNECT. SPRINKLERS ARE TO HAVE A MINIMUM CAPACITY OF 0.7 LITRES PER SECOND, A MINIMUM 16m SPREAD RADIUS AND TRAFFICABLE HOSES. THE CONTRACTOR SHALL ENSURE ALL EXPOSED EARTHWORK AREAS ARE CONTINUALLY WATERED LIMITING THE OCCURRENCE OF DUST TO A LEVEL ACCEPTABLE TO BRISBANE CITY COUNCIL;
3. WINDBREAK SCREENS INCLUDING THE ORIENTATION OF TEMPORARY STOCKPILES TO MINIMISE THE EFFECT OF PREVAILING WINDS;
4. MINIMISATION OF VEHICULAR MOVEMENT EXCEPT FOR DESIGNATED TRAFFIC ROUTES;

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SCALE 1:50

1	ISSUED FOR TENDER		14-08-20	
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Associated Job Nos
Auxiliary Drg Nos

Survey Data: Datum GDA94; Horiz. Grid MGA Z56; Height Origin; Survey Books

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SOUTHERN MORETON BAY
SOUTHERN MORETON BAY ISLANDS
KARRAGARRA ISLAND

FERRY TERMINALS DESIGN

Drawn FS
Checked JB
Designed JT
Design Review DF
Date 14-08-2020

STRUCTURAL
LANDSIDE SHELTERS
BULK EARTHWORKS SHEET 2

ENGINEERING CERTIFICATION (RPEQ)

ENG. AREA	NAME	SIGNATURE	NO.	DATE

Queensland Government

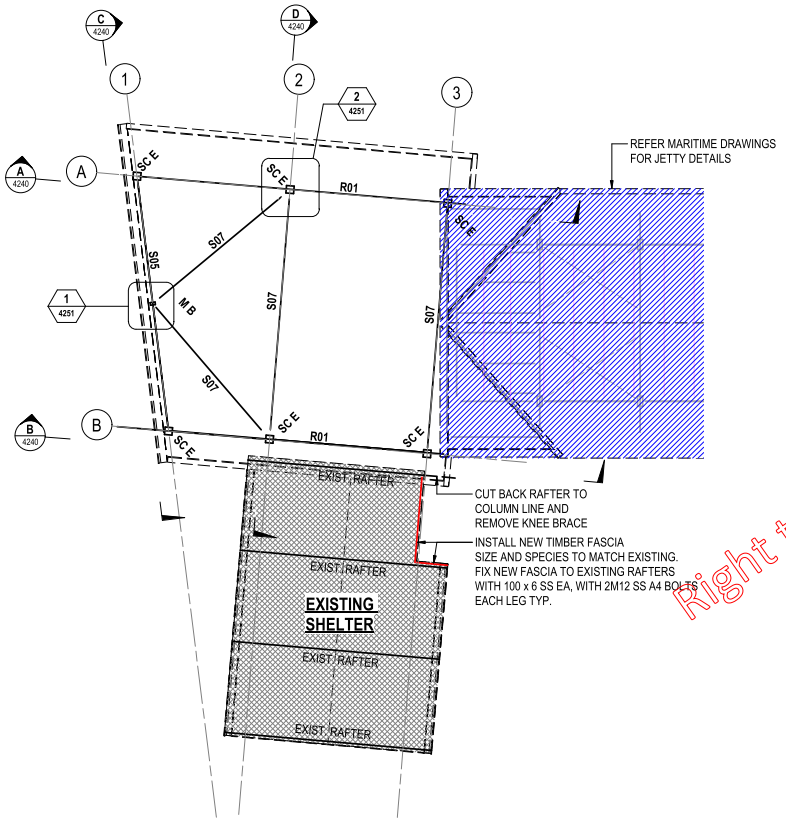
File No.	467/00408
Contract. No.	CN-12653
Drawing No.	4228 | 1
Project No.	TMR29-130
MRM_Detail (05/14)	BN-70-1

CAD FILES | BIM 360://7905-29 SMBI Ferry Terminal Designs/46700408 – SMBI – Karragarra Island – S – LandStruct.rvt

Last Modified: - 17/09/2020 6:17:09 PM

ISSUE FOR TENDER

Cardno architectus



ROOF FRAMING PLAN
SCALE 1 : 50

NORTH

NOTES:

1. FOR ALL RELEVANT CONSTRUCTION NOTES REFER DRAWING No.s 4002 & 4003
2. REFER TO CONSTRUCTION NOTES FOR SURFACE PROTECTION OF ALL STEELWORK
3. **ROOF LOADS**
   SUPERIMPOSED DEAD LOADS:
   GENERALLY 0.40 kPa
   SERVICES 0.10 kPa
   LIVE LOADS:
   GENERALLY 0.25 kPa
   WIND LOADS:
   REFER DRAWING 4002
4. REFER TO ARCHITECTURAL DRAWINGS FOR ALL DEMOLITIN DETAILS, NEW FINISHED SURFACE LEVELS, SETOUT, DIMENSIONS AND FINISHES.
5. **REFERENCE DOCUMENTS**
   MRTS78 FABRICATION OF STRUCTURAL STEELWORK
   MTS88 PROTECTIVE COATING FOR NEW WORK

STEEL MEMBER SCHEDULE

MARK	SIZE	REMARKS
R01	150 UC 37.2	RAFTER
S05	100 x 100 x 6.0 SHS	STRUT
S07	75x75x6.0 SHS	STRUT
WH05	100 x 100 x 6.0 SHS	WALL HEAD

STEEL COLUMN SCHEDULE

MARK	SIZE	REMARKS
MB	100x50x6.0 RHS	MULLION
SCE	150 x 150 x 6.0 SHS	STEEL COLUMN

0 1000 2000 3000 4000 5000
SCALE 1:50

This Drawing has been prepared in COLOUR
REPRODUCTION OR READING IN OTHER THAN FULL COLOUR MAY IMPART FALSE OR MISSING INFORMATION

1	ISSUED FOR TENDER		14-08-20	
	Revisions/Descriptions	Certification	Date	Microfiled

Associated Job Nos
Auxiliary Drg Nos

Survey Data: Datum GDA94; Horiz. Grid MGA Z56; Height Origin; Survey Books

Scales: Dimensions shown in millimetres except where shown otherwise

SOUTHERN MORETON BAY
SOUTHERN MORETON BAY ISLANDS
KARRAGARRA ISLAND

FERRY TERMINALS DESIGN

Drawn FS
Checked JB
Designed JT
Design Review DF
Date 14-08-2020

STRUCTURAL
LANDSIDE SHELTERS
FRAMING PLAN

ENGINEERING CERTIFICATION (RPEQ)

ENG. AREA	NAME	SIGNATURE	NO.	DATE

Queensland Government

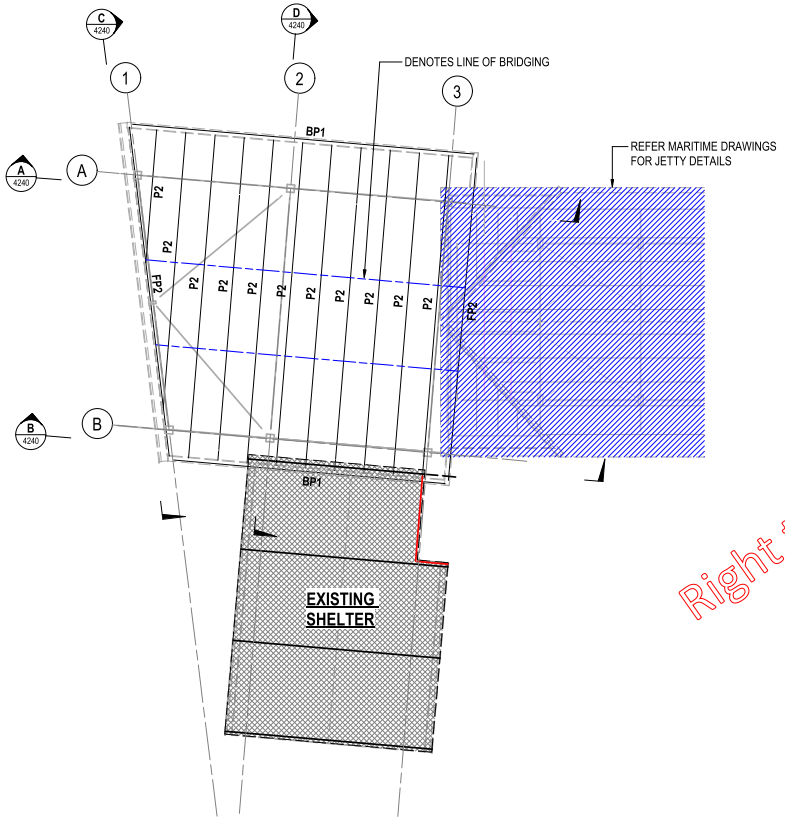
File No.	467/00408
Contract. No.	CN-12653
Drawing No.	4230 1
Project No.	TMR29-130
MRM_Detail (05/14)	BN-70-1

CAD FILES | BIM 360://7905-29 SMBI Ferry Terminal Designs/46700408 – SMBI – Karragarra Island – S – LandStruct.rvt

Last Modified :- 17/09/2020 6:17:17 PM

ISSUE FOR TENDER

Cardno architectus



PURLIN PLAN
SCALE 1 : 50

NOTES:

1. FOR ALL RELEVANT CONSTRUCTION NOTES REFER DRAWING No.s 4002 & 4003
2. REFER TO CONSTRUCTION NOTES FOR SURFACE PROTECTION OF ALL STEELWORK
3. **ROOF LOADS**
   SUPERIMPOSED DEAD LOADS:
   GENERALLY 0.40 kPa
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   WIND LOADS:
   REFER DRAWING 4002
4. REFER TO ARCHITECTURAL DRAWINGS FOR ALL DEMOLITIN DETAILS, NEW FINISHED SURFACE LEVELS, SETOUT, DIMENSIONS AND FINISHES.
5. **REFERENCE DOCUMENTS**
   MRTS78 FABRICATION OF STRUCTURAL STEELWORK
   MTS88 PROTECTIVE COATING FOR NEW WORK

PURLIN SCHEDULE

MARK	SIZE	REMARKS
BP1	SC15015	LYSAGHT PERMAGAL BARGE PURLIN
FP2	SC15024	LYSAGHT PERMAGAL FASCIA PURLIN
P2	SC15024	LYSAGHT PERMAGAL PURLINS AT 600 MAX. CTS BRIDGING AS NOTED ON THE DRAWING

0 1000 2000 3000 4000 5000
SCALE 1:50

This Drawing has been prepared in COLOUR
REPRODUCTION OR READING IN OTHER THAN FULL COLOUR MAY IMPART FALSE OR MISSING INFORMATION

1	ISSUED FOR TENDER		14-08-20	
	Revisions/Descriptions	Certification	Date	Microfiled

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Last Modified :- 17/08/2020 6:17:24 PM

Associated Job Nos
Auxiliary Drg Nos

Survey Data
Datum GDA94
Horiz. Grid MGA Z56
Height Origin
Survey Books

Scales
Dimensions shown in millimetres except where shown otherwise

SOUTHERN MORETON BAY
SOUTHERN MORETON BAY ISLANDS
KARRAGARRA ISLAND

FERRY TERMINALS DESIGN

Drawn FS
Checked JB
Designed JT
Design Review DF
Date 14-08-2020

STRUCTURAL
LANDSIDE SHELTERS
PURLIN PLAN

ENGINEERING CERTIFICATION (RPEQ)

ENG. AREA	NAME	SIGNATURE	NO.	DATE

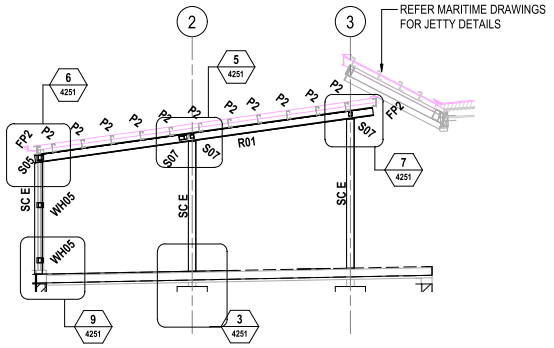
Queensland Government

File No.	467/00408
Contract. No.	CN-12653
Drawing No.	4235 1
Project No.	TMR29-130

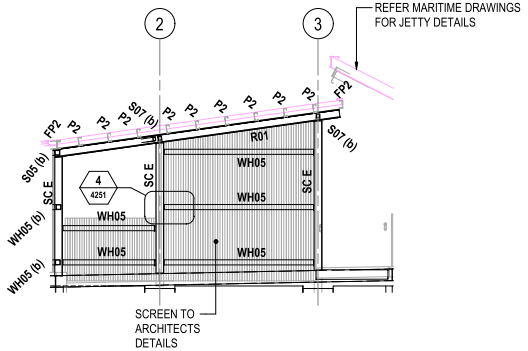
MRM_Detail (05/14) BN-70-1

ISSUE FOR TENDER

Cardno architectus



SECTION A (4230)
SCALE 1 : 50



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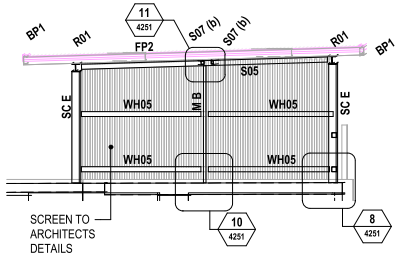

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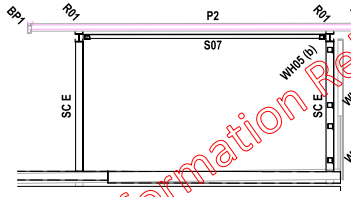

SECTION D (4230)
SCALE 1 : 50

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SCALE 1:50

1	ISSUED FOR TENDER		14-08-20	
	Revisions/Descriptions	Certification	Date	Microfiled

CAD FILES: BIM 360://7905-29 SMBI Ferry Terminal Designs/46700408 – SMBI – Karragarra Island – S – LandStruct.rvt

Associated Job Nos
Auxiliary Drg Nos

Survey Data	
Datum	GDA94
Horiz. Grid	MGA Z56
Height Origin	
Survey Books	

Scales
Dimensions shown in millimetres except where shown otherwise

SOUTHERN MORETON BAY
SOUTHERN MORETON BAY ISLANDS
KARRAGARRA ISLAND

FERRY TERMINALS DESIGN

Drawn	FS
Checked	JB
Designed	JT
Design Review	DF
Date	14-08-2020

STRUCTURAL
LANDSIDE SHELTERS
SECTIONS AND ELEVATIONS SHEET 1

ENGINEERING CERTIFICATION (RPEQ)

ENG. AREA	NAME	SIGNATURE	NO.	DATE

Queensland Government

File No.	467/00408
Contract. No.	CN-12653
Drawing No.	4240 | 1
Project No.	TMR29-130
MRM_Detail (05/14)	BN-70-1

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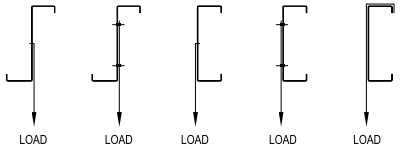
ISSUE FOR TENDER

Cardno architectus

SUSPENDING LOADS FROM PURLINS

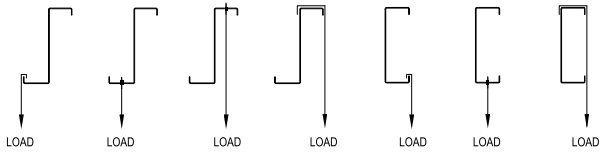
CEILINGS, SERVICES, ETC WHICH ARE SUSPENDED FROM PURLINS SHALL BE FIXED TO THE PURLINS WEBS ONLY.
NO LOADS SHALL BE SUSPENDED FROM, OR HOLES DRILLED THROUGH, PURLIN FLANGES.
WHERE NECESSARY TO HANG CEILINGS, SERVICES PIPES, DUCTWORK, ETC FROM STANDARD PURLINS THE BUILDER SHALL ONLY USE THE FOLLOWING APPROVED METHODS. REFER TO MANUFACTURER FOR APPROVED METHODS OF SUPPORTING LOADS FROM DOUBLE PURLINS.

APPROVED METHODS OF SUSPENDING FROM PURLINS

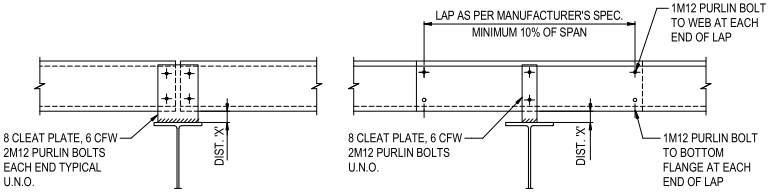


NON-APPROVED METHODS OF SUSPENDING FROM PURLINS

THE BUILDER SHALL NOT USE ANY OF THE FOLLOWING METHODS OF SUSPENSION

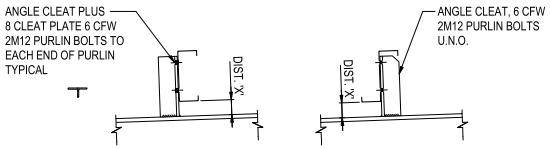


IF IN DOUBT OBTAIN APPROVAL FROM THE PROJECT ENGINEER FOR THE PROPOSED FIXING METHOD PRIOR TO COMMENCING ANY INSTALLATION. NOTE PARTICULARLY - LOAD SUSPENSION FROM PURLIN BRIDGING IS NOT PERMITTED.



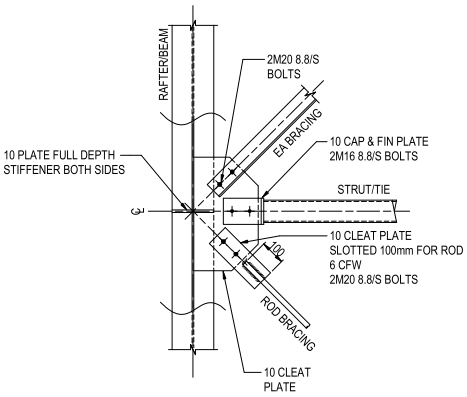
'C' PURLIN/GIRT DETAIL

'Z' PURLIN/GIRTLAP DETAIL

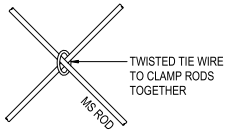


ANGLE CLEAT DETAILS

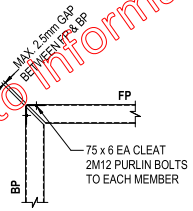
PURLIN CLEAT SCHEDULE	
CLEAT HEIGHT DIST 'X'	CLEAT
UP TO 50mm	8 PLATE
50mm TO 100mm	10 PLATE
100mm TO 250mm	75 x 10 EA
250mm AND OVER	90 x 10 EA
300mm DEEP PURLIN/GIRT SECTIONS SHALL HAVE A MINIMUM 12mm THICK CLEAT AND M16 PURLIN BOLTS (REFER MANUFACTURER'S SPECIFICATIONS).	



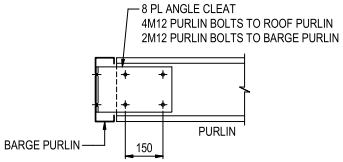
TYPICAL BRACING DETAIL
NTS



INTERSECTION DETAIL
ROD BRACING



TYPICAL FASCIA PURLIN (FP) TO BARGE PURLIN (BP) CONNECTION DETAIL
SCALE 1:10



TYPICAL DETAIL AT BARGE PURLIN
SCALE 1:10

0 200 400 600 800 1000
SCALE 1:10

NOTES:

1. FOR ALL RELEVANT CONSTRUCTION NOTES REFER DRAWING No.s 4002 & 4003
2. REFER TO STRUCTURAL STEELWORK SPECIFICATION FOR SURFACE PROTECTION OF ALL STEELWORK
3. ALL PLATES TO BE 10mm THICK U.N.O.
4. ALL BOLTS TO BE M16 8.8/S U.N.O.
5. ALL WELDS TO BE 6mm CFW U.N.O.
6. ALL ANCHORS TO BE RAMSET CHEMSET INJECTION 801 WITH GRADE 5.8 GALVANISED CHEMSET ANCHOR STUDS INSTALLED IN ACCORDANCE WITH MANUFACTURERS SPECIFICATIONS. U.N.O.

   M12 ANCHORS - 110 EMBEDMENT U.N.O.
   M16 ANCHORS - 125 EMBEDMENT U.N.O.
   M20 ANCHORS - 150 EMBEDMENT U.N.O.

   ALTERNATIVE EQUIVALENT ANCHORS TO BE SUBMITTED TO THE STRUCTURAL ENGINEER FOR APPROVAL PRIOR TO COMMENCEMENT OF WORK.

1	ISSUED FOR TENDER		14-08-20	
	Revisions/Descriptions	Certification	Date	Microfiled

CAD FILES | BIM 360://7905-29 SMBI Ferry Terminal Designs/46700408 – SMBI – Karragarra Island – S – LandStruct.rvt

Last Modified: - 17/09/2020 6:17:42 PM

Associated Job Nos
Auxiliary Drg Nos

Survey Data
Datum GDA94
Horiz. Grid MGA Z56
Height Origin
Survey Books

Scales
Dimensions shown in millimetres except where shown otherwise

SOUTHERN MORETON BAY
SOUTHERN MORETON BAY ISLANDS
KARRAGARRA ISLAND

FERRY TERMINALS DESIGN

Drawn FS
Checked JB
Designed JT
Design Review DF
Date 14-08-2020

STRUCTURAL
LANDSIDE SHELTERS
STEEL DETAILS SHEET 1
ENGINEERING CERTIFICATION (RPEQ)

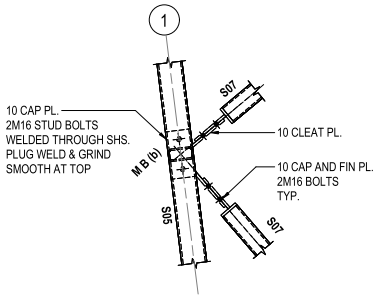
ENG. AREA	NAME	SIGNATURE	NO.	DATE

Queensland Government

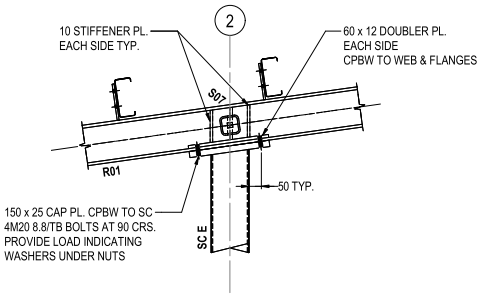
File No.	467/00408
Contract. No.	CN-12653
Drawing No.	4250 1
Project No.	TMR29-130
MRM_Detail (05/14)	BN-70-1

ISSUE FOR TENDER

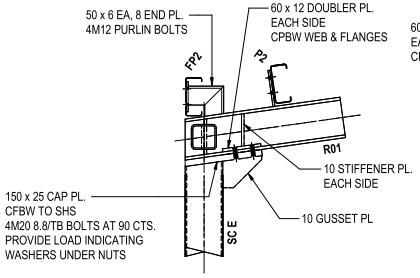
Cardno architectus



DETAIL 1 (4230) SCALE 1 : 10



DETAIL 5 (4240) SCALE 1 : 10



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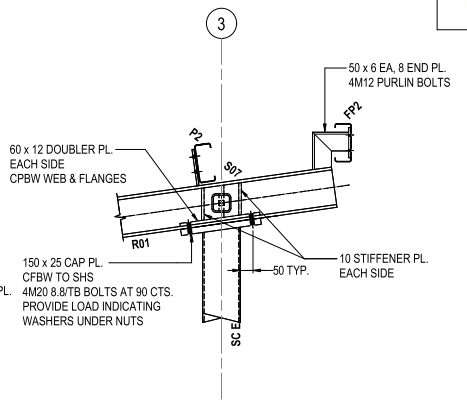

DETAIL 7 (4240) SCALE 1 : 10

NOTES:

1. FOR ALL RELEVANT CONSTRUCTION NOTES REFER DRAWING No.s 4002 & 4003
2. REFER TO STRUCTURAL STEELWORK SPECIFICATION FOR SURFACE PROTECTION OF ALL STEELWORK
3. ALL PLATES TO BE 10mm THICK U.N.O.
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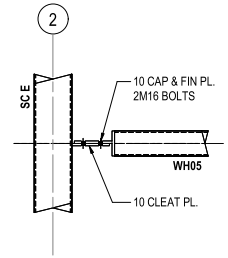
5. ALL WELDS TO BE 6mm CFW U.N.O.
6. ALL ANCHORS TO BE RAMSET CHEMSET INJECTION 801 WITH GRADE 5.8 GALVANISED CHEMSET ANCHOR STUDS INSTALLED IN ACCORDANCE WITH MANUFACTURERS SPECIFICATIONS. U.N.O.

   M12 ANCHORS - 110 EMBEDMENT U.N.O.
   M16 ANCHORS - 125 EMBEDMENT U.N.O.
   M20 ANCHORS - 150 EMBEDMENT U.N.O.

   ALTERNATIVE EQUIVALENT ANCHORS TO BE SUBMITTED TO THE STRUCTURAL ENGINEER FOR APPROVAL PRIOR TO COMMENCEMENT OF WORK.



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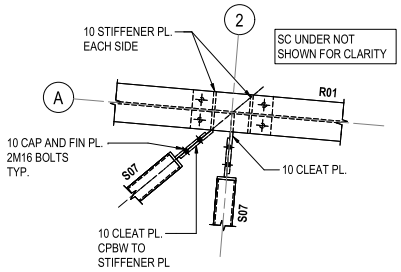

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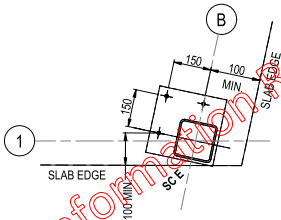
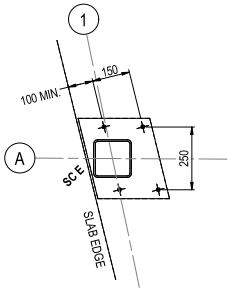


SECTION 8A (4251) SCALE 1 : 10



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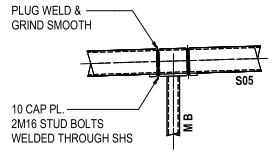

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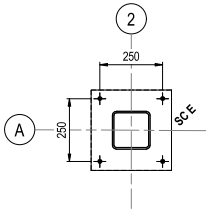

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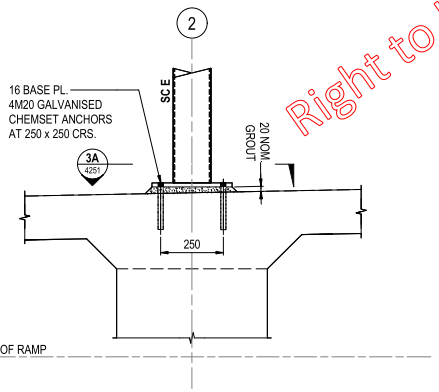

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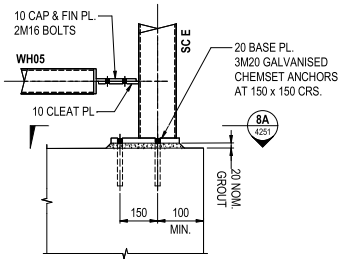

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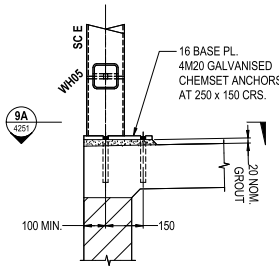

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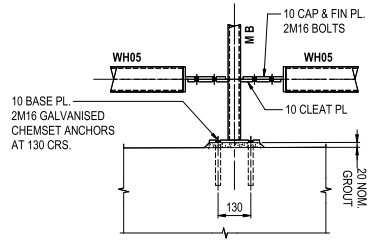

DETAIL 10 (4240) SCALE 1 : 10

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SCALE 1:10

1	ISSUED FOR TENDER		14-08-20	
	Revisions/Descriptions	Certification	Date	Microfiled

CAD FILES | BIM 360://7905-29 SMBI Ferry Terminal Designs/46700408 – SMBI – Karragarra Island – S – LandStruct.rvt

Last Modified: - 17/08/2020 6:17:33 PM

Associated Job Nos

Auxiliary Drg Nos

Survey Data: Datum GDA94; Horiz. Grid MGA Z56; Height Origin; Survey Books

Scales: Dimensions shown in millimetres except where shown otherwise

SOUTHERN MORETON BAY
SOUTHERN MORETON BAY ISLANDS
KARRAGARRA ISLAND

FERRY TERMINALS DESIGN

Drawn FS | Checked JB | Designed JT | Design Review DF | Date 14-08-2020

STRUCTURAL
LANDSIDE SHELTERS
STEEL DETAILS SHEET 2

ENGINEERING CERTIFICATION (RPEQ)

ENG. AREA	NAME	SIGNATURE	NO.	DATE

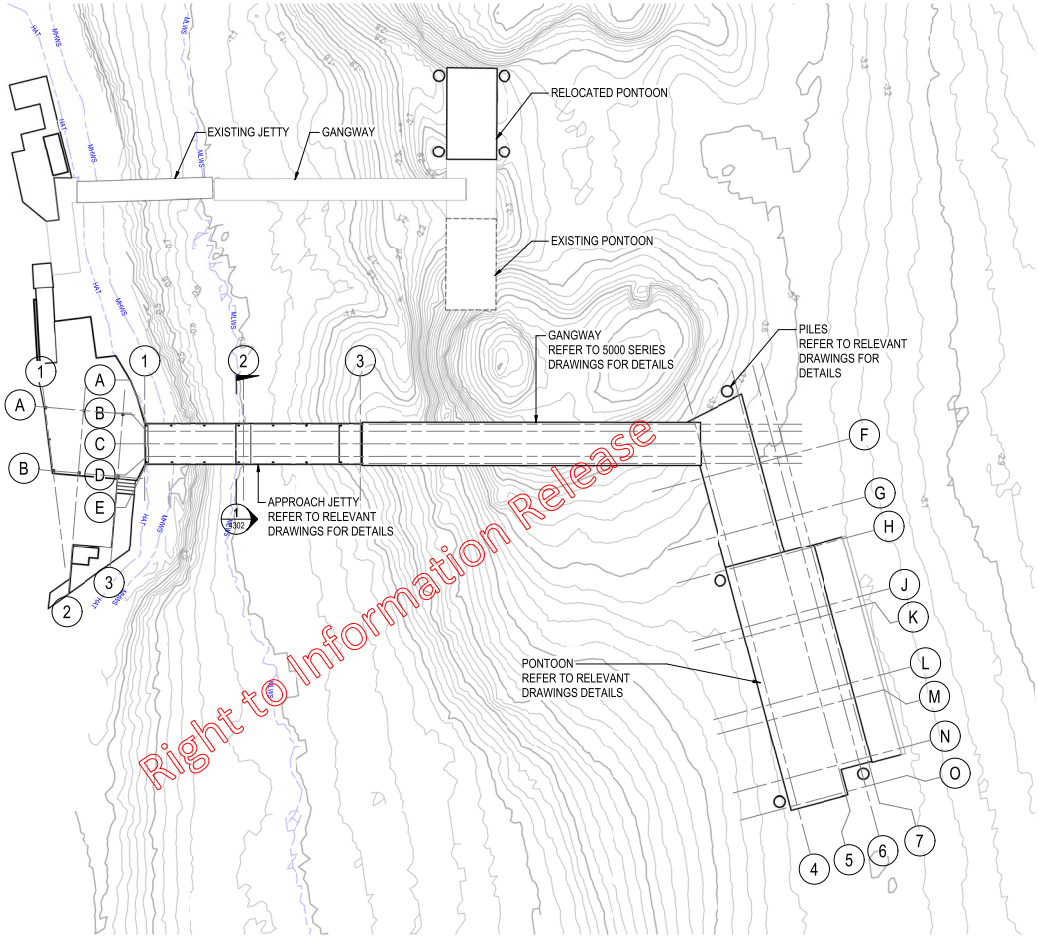
Queensland Government

File No.	467/00408
Contract. No.	CN-12653
Drawing No.	4251 | 1
Project No.	TMR29-130

MRM_Detail (05/14) | BN-70-1

ISSUE FOR TENDER

Cardno architectus



GENERAL ARRANGENMENT PLAN
SCALE 1 : 200

LEGEND

PROPOSED TIDAL CONTOURS (HAT, MHWS, MLWS)

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SCALE 1:200

	Revisions/Descriptions	Certification	Date	Microfiled
4	ISSUED FOR TENDER		18-08-20	
3	PRELIMINARY DESIGN RE-ISSUE		17-01-20	
2	PRELIMINARY DESIGN ISSUE		08-11-19	
1	ISSUED FOR INTERNAL REVIEW - QS		25-10-19	

CAD FILES: BIM 360://7905-29 SMBI Ferry Terminal Designs/46700408 – SMBI – Karragarra Island – PM – Jetty and Gangway.rvt

Associated Job Nos:
Auxiliary Drg Nos:

Survey Data: Datum GDA94; Horiz. Grid MGA Z56; Height Origin AHD; Survey Books

Scales: Dimensions shown in millimetres except where shown otherwise

SOUTHERN MORETON BAY
SOUTHERN MORETON BAY ISLANDS
KARRAGARRA ISLAND

FERRY TERMINALS DESIGN

Drawn GW
Checked EC
Designed LB
Design Review MN
Date 18-08-2020

MARITIME

GENERAL ARRANGEMENT PLAN

ENGINEERING CERTIFICATION (RPEQ)

ENG. AREA	NAME	SIGNATURE	NO.	DATE

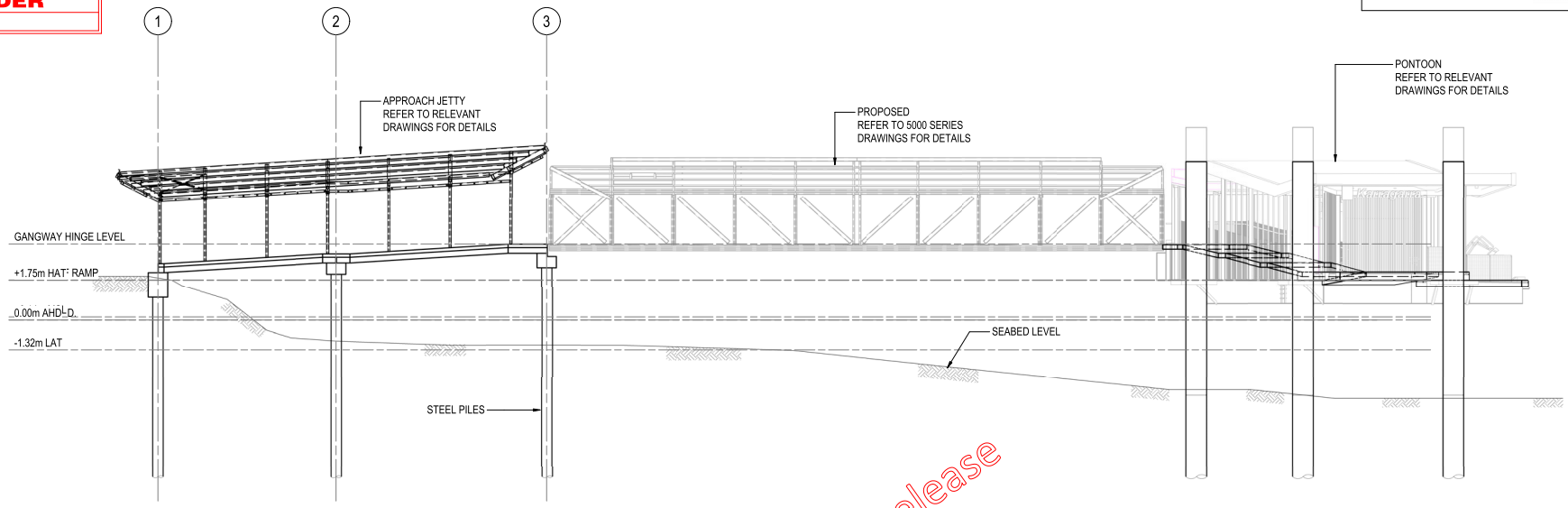
Queensland Government

File No.	467/00408
Contract. No.	CN-12653
Drawing No.	4301 | 4
Project No.	TMR29-130
MRM_Detail (05/14)	BN-70-1

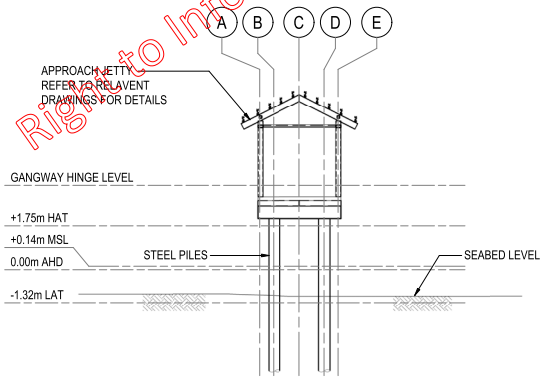
Last Modified: - 18/08/2020 9:27:41 PM

ISSUE FOR TENDER

Cardno architectus



EAST ELEVATION
SCALE 1 : 100



SECTION 1 / 4301
SCALE 1 : 100

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SCALE 1:100

1	ISSUED FOR TENDER		18-08-20	
	Revisions/Descriptions	Certification	Date	Microfiled

Associated Job Nos
Auxiliary Drg Nos

Survey Data: Datum GDA94; Horiz. Grid MGA Z56; Height Origin AHD; Survey Books

Scales
Dimensions shown in millimetres except where shown otherwise

SOUTHERN MORETON BAY
SOUTHERN MORETON BAY ISLANDS
KARRAGARRA ISLAND

FERRY TERMINALS DESIGN

Drawn GW
Checked EC
Designed LB
Design Review MN
Date 18-08-2020

MARITIME

GENERAL ELEVATION AND SECTIONS

ENGINEERING CERTIFICATION (RPEQ)

ENG. AREA	NAME	SIGNATURE	NO.	DATE

Queensland Government

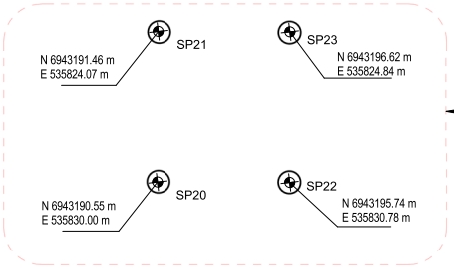
File No. 467/00408
Contract No. CN-12653
Drawing No. 4302 1
Project No. TMR29-130
MRM_Detail (05/14) BN-70-1

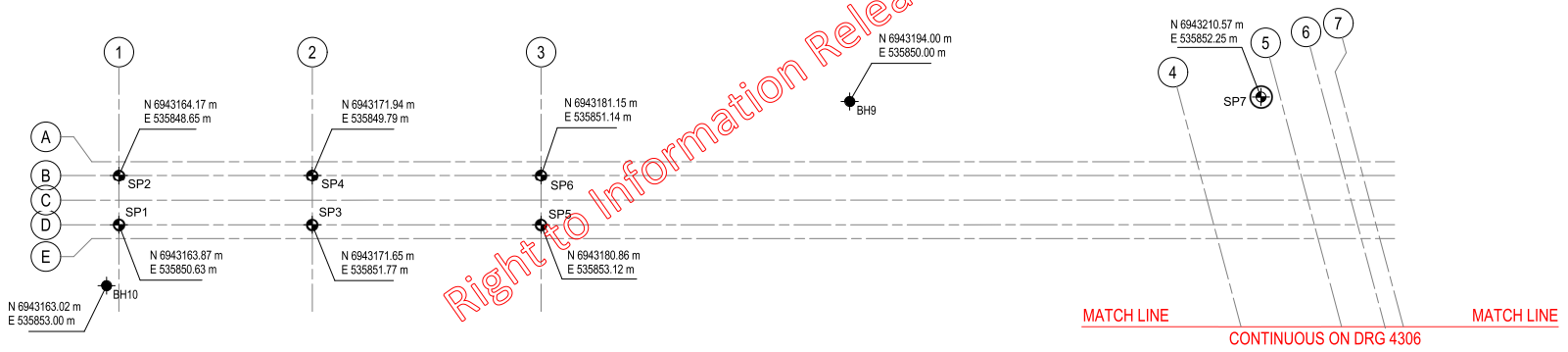
CAD FILES | BIM 360://7905-29 SMBI Ferry Terminal Designs/46700408 – SMBI – Karragarra Island – PM – Jetty and Gangway.rvt

Last Modified: - 18/08/2020 9:27:54 PM

ISSUE FOR TENDER

Cardno architectus





PILE SCHEDULE

MARK	SIZE	CUT OFF AHD (m)	TOE AHD (m)	ULS COMPRESSIVE DESIGN LOAD (kN)	ULS BENDING DESIGN LOAD (kNm)	ULS SHEAR DESIGN LOAD (kN)	REMARKS
SP1	Ø450 x 16	+1.0	-9.0	177	95	39	JETTY PILE
SP2	Ø450 x 16	+1.0	-9.0	177	95	39	JETTY PILE
SP3	Ø450 x 16	+2.03	-11.07	363	280	82	JETTY PILE
SP4	Ø450 x 16	+2.03	-11.07	363	280	82	JETTY PILE
SP5	Ø450 x 16	+2.32	-11.68	429	480	142	JETTY PILE
SP6	Ø450 x 16	+2.32	-11.68	429	480	142	JETTY PILE
SP7	Ø900 x16	+7.0m	-13.40	N/A	986	210	PONTOON GUIDE PILE
SP8	Ø900 x16	+7.0m	-13.40	N/A	986	210	PONTOON GUIDE PILE
SP9	Ø900 x16	+7.0m	-13.40	N/A	986	210	PONTOON GUIDE PILE
SP10	Ø900 x16	+7.0m	-13.40	N/A	986	210	PONTOON GUIDE PILE
SP20	TBC	TBC	TBC	N/A	N/A	N/A	REPURPOSED PONTOON GUIDE PILES
SP21	TBC	TBC	TBC	N/A	N/A	N/A	REPURPOSED PONTOON GUIDE PILES
SP22	TBC	TBC	TBC	N/A	N/A	N/A	REPURPOSED PONTOON GUIDE PILES
SP23	TBC	TBC	TBC	N/A	N/A	N/A	REPURPOSED PONTOON GUIDE PILES

PILE PLAN - PART A
SCALE 1 : 100

PILE ACTION KEY
NOTE: N* ACTION ACTING IN COMPRESSION

BORE HOLE NOTE:
REFER TO PACIFIC GEOTECH REPORT
REF. NO. PG-1697, 2018-07-09, GR VER 1

0 2000 4000 6000 8000 10000
SCALE 1:100

4	ISSUED FOR TENDER		18-08-20	
3	PRELIMINARY DESIGN RE-ISSUE		17-01-20	
2	PRELIMINARY DESIGN ISSUE		08-11-19	
1	ISSUED FOR INTERNAL REVIEW - QS		25-10-19	
	Revisions/Descriptions	Certification	Date	Microfiled

CAD FILES: BIM 360://7905-29 SMBI Ferry Terminal Designs/46700408 – SMBI – Karragarra Island – PM – Jetty and Gangway.rvt

Last Modified: - 18/09/2020 9:28:02 PM

Associated Job Nos
Auxiliary Drg Nos

Survey Data: Datum GDA94; Horiz. Grid MGA Z56; Height Origin AHD; Survey Books

Scales
Dimensions shown in millimetres except where shown otherwise

SOUTHERN MORETON BAY
SOUTHERN MORETON BAY ISLANDS
KARRAGARRA ISLAND

FERRY TERMINALS DESIGN

Drawn GW
Checked EC
Designed LB
Design Review MN
Date 18-08-2020

MARITIME

PILE PLAN - SHEET 1

ENGINEERING CERTIFICATION (RPEQ)

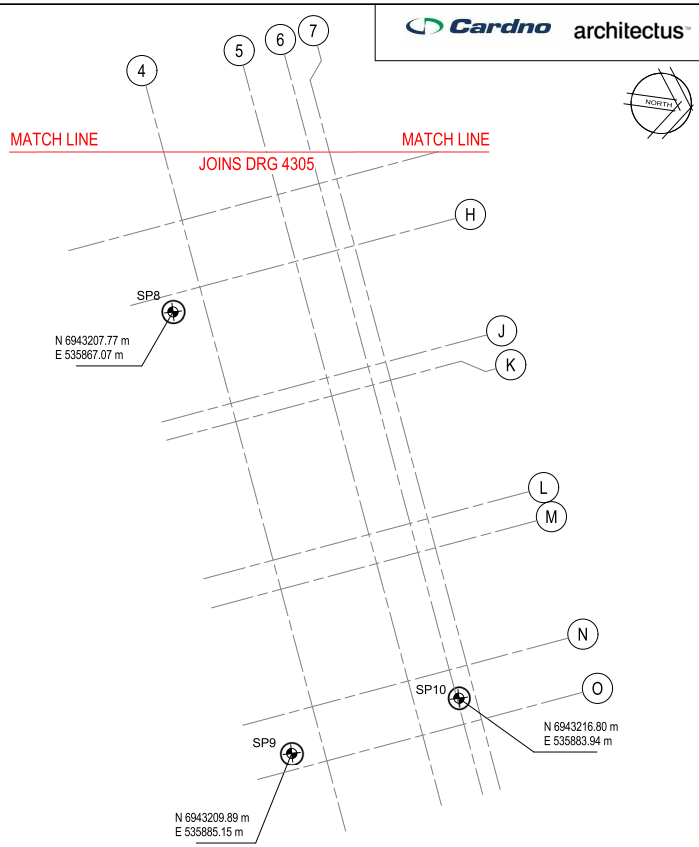
ENG. AREA	NAME	SIGNATURE	NO.	DATE

Queensland Government

File No.	467/00408
Contract. No.	CN-12653
Drawing No.	4305 | 4
Project No.	TMR29-130
MRM_Detail (05/14)	BN-70-1

ISSUE FOR TENDER

Cardno architectus



PILE SCHEDULE

MARK	SIZE	CUT OFF AHD (m)	TOE AHD (m)	ULS COMPRESSIVE DESIGN LOAD (kN)	ULS BENDING DESIGN LOAD (kNm)	ULS SHEAR DESIGN LOAD (kN)	REMARKS
SP1	Ø450 x 16	+1.0	-9.0	177	95	39	JETTY PILE
SP2	Ø450 x 16	+1.0	-9.0	177	95	39	JETTY PILE
SP3	Ø450 x 16	+2.03	-11.07	363	280	82	JETTY PILE
SP4	Ø450 x 16	+2.03	-11.07	363	280	82	JETTY PILE
SP5	Ø450 x 16	+2.32	-11.68	429	480	142	JETTY PILE
SP6	Ø450 x 16	+2.32	-11.68	429	480	142	JETTY PILE
SP7	Ø900 x16	+7.0m	-13.40	N/A	986	210	PONTOON GUIDE PILE
SP8	Ø900 x16	+7.0m	-13.40	N/A	986	210	PONTOON GUIDE PILE
SP9	Ø900 x16	+7.0m	-13.40	N/A	986	210	PONTOON GUIDE PILE
SP10	Ø900 x16	+7.0m	-13.40	N/A	986	210	PONTOON GUIDE PILE
SP20	TBC	TBC	TBC	N/A	N/A	N/A	REPURPOSED PONTOON GUIDE PILES
SP21	TBC	TBC	TBC	N/A	N/A	N/A	REPURPOSED PONTOON GUIDE PILES
SP22	TBC	TBC	TBC	N/A	N/A	N/A	REPURPOSED PONTOON GUIDE PILES
SP23	TBC	TBC	TBC	N/A	N/A	N/A	REPURPOSED PONTOON GUIDE PILES

PILE PLAN - PART B
SCALE 1 : 100

PILE ACTION KEY
NOTE: N° ACTION ACTING IN COMPRESSION

BORE HOLE NOTE:
REFER TO PACIFIC GEOTECH REPORT
REF. NO. PG-1697, 2018-07-09, GR VER 1

0 2000 4000 6000 8000 10000
SCALE 1:100

1	ISSUED FOR TENDER		18-08-20	
	Revisions/Descriptions	Certification	Date	Microfiled

CAD FILES | BIM 360://7905-29 SMBI Ferry Terminal Designs/46700408 – SMBI – Karragarra Island – PM – Jetty and Gangway.rvt

Associated Job Nos
Auxiliary Drg Nos

Survey Data: Datum GDA94; Horiz. Grid MGA Z56; Height Origin AHD; Survey Books

Scales: Dimensions shown in millimetres except where shown otherwise

SOUTHERN MORETON BAY
SOUTHERN MORETON BAY ISLANDS
KARRAGARRA ISLAND

FERRY TERMINALS DESIGN

Drawn	GW
Checked	EC
Designed	LB
Design Review	MN
Date	18-08-2020

MARITIME

PILE PLAN - SHEET 2

ENGINEERING CERTIFICATION (RPEQ)

ENG. AREA	NAME	SIGNATURE	NO.	DATE

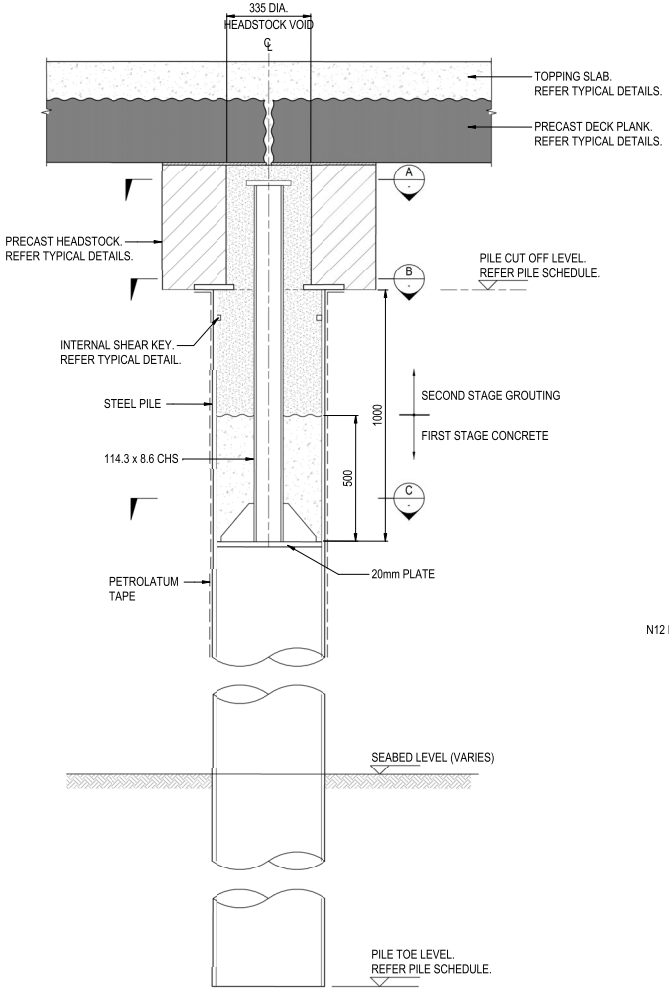
Queensland Government

File No.	467/00408
Contract. No.	CN-12653
Drawing No.	4306 | 1
Project No.	TMR29-130
MRM_Detail (05/14)	BN-70-1

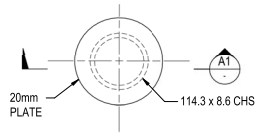
Last Modified :- 18/09/2020 9:26:10 PM

ISSUE FOR TENDER

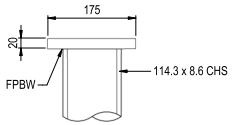
Cardno architectus



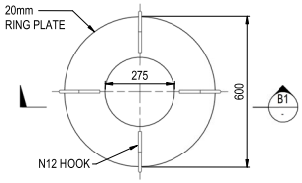
APPROACH JETTY
TYPICAL PILE AND PILE PLUG DETAIL
SCALE 1:10



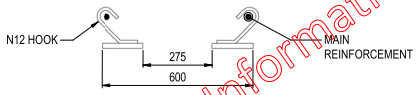
SECTION A
SCALE 1 : 5



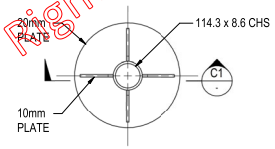
SECTION A1
SCALE 1 : 5



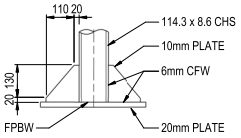
SECTION B
SCALE 1 : 10



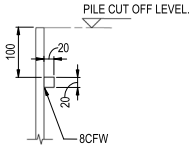
SECTION B1
SCALE 1 : 10



SECTION C
SCALE 1 : 10



SECTION C1
SCALE 1 : 10



TYPICAL SHEAR KEY DETAIL
SCALE 1 : 5

0 200 400 600 800 1000
SCALE 1:10

2	REVISED ISSUE FOR TENDER		31-08-20	
1	ISSUED FOR TENDER		18-08-20	
	Revisions/Descriptions	Certification	Date	Microfiled

CAD FILES | BIM 360://7905-29 SMBI Ferry Terminal Designs/46700408 – SMBI – Karragarra Island – PM – Jetty and Gangway.rvt

Last Modified: - 31/08/2020 11:18:30 PM

Associated Job Nos	
Auxiliary Drg Nos	

Survey Data	
Datum	GDA94
Horiz. Grid	MGA Z56
Height Origin	AHD
Survey Books	

Scales

Dimensions shown in millimetres except where shown otherwise

SOUTHERN MORETON BAY
SOUTHERN MORETON BAY ISLANDS
KARRAGARRA ISLAND

FERRY TERMINALS DESIGN

Drawn	GW
Checked	EC
Designed	LB
Design Review	MN
Date	31-08-2020

MARITIME

PILE AND PILE PLUG DETAILS

ENGINEERING CERTIFICATION (RPEQ)

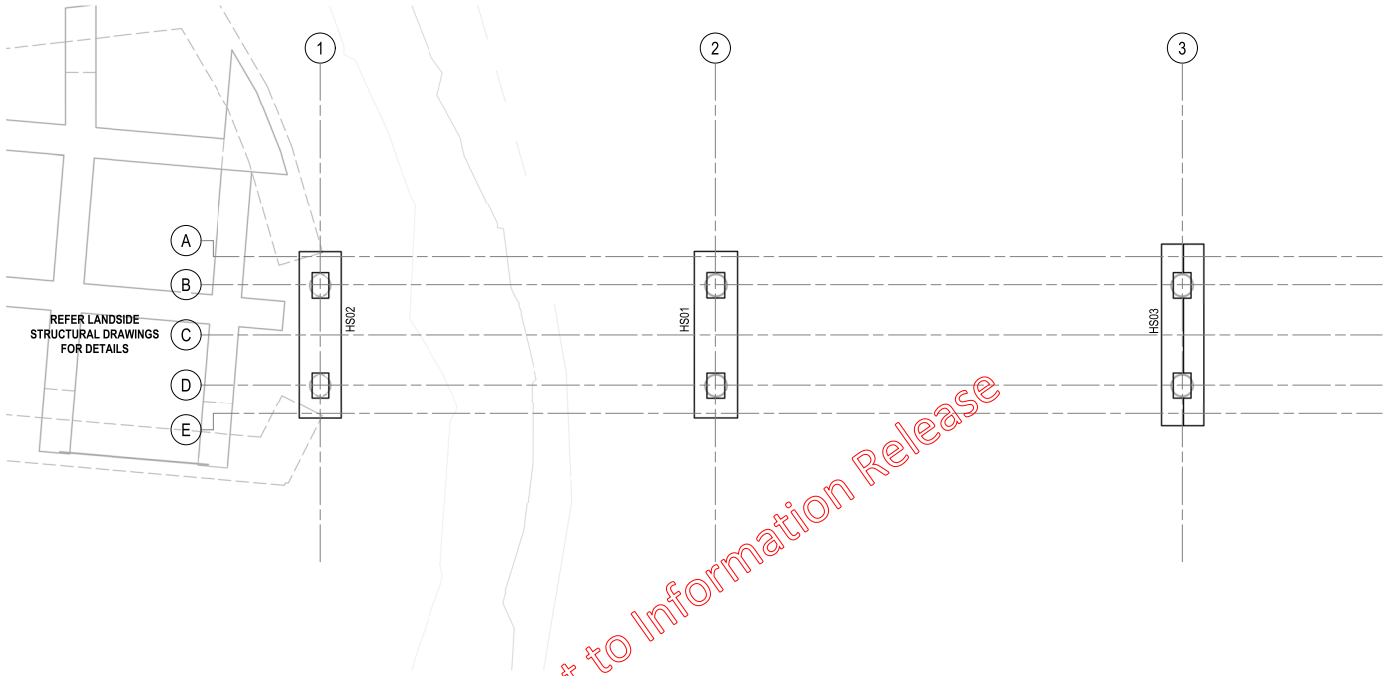
ENG. AREA	NAME	SIGNATURE	NO.	DATE

Queensland Government

File No.	467/00408
Contract. No.	CN-12653
Drawing No.	4307 | 2
Project No.	TMR29-130
MRM_Detail (05/14)	BN-70-1

ISSUE FOR TENDER

Cardno architectus



HEADSTOCK PLAN
SCALE 1 : 50

STRUCTURAL CONCRETE MEMBER SCHEDULE

MARK	SIZE (W x D)	REMARKS
HS01	850x500	PRECAST CONCRETE HEADSTOCK. REFER TO DRAWING 4311 FOR DETAILS
HS02	850x1100	PRECAST CONCRETE HEADSTOCK. REFER TO DRAWING 4311 FOR DETAILS
HS03	850x640	PRECAST CONCRETE HEADSTOCK. REFER TO DRAWING 4313 FOR DETAILS

0 1000 2000 3000 4000 5000
SCALE 1:50

2	ISSUED FOR TENDER		18-08-20	
1	PRELIMINARY DESIGN RE-ISSUE		17-01-20	
	Revisions/Descriptions	Certification	Date	Microfiled

CAD FILES: BIM 360://7905-29 SMBI Ferry Terminal Designs/46700408 – SMBI – Karragarra Island – PM – Jetty and Gangway.rvt

Last Modified - 18/09/2020 9:28:29 PM

Associated Job Nos

Auxiliary Drg Nos

Survey Data: Datum GDA94; Horiz. Grid MGA Z56; Height Origin; Survey Books

Scales: Dimensions shown in millimetres except where shown otherwise

SOUTHERN MORETON BAY
SOUTHERN MORETON BAY ISLANDS
KARRAGARRA ISLAND

FERRY TERMINALS DESIGN

Drawn GW
Checked EC
Designed LB
Design Review MN
Date 18-08-2020

MARITIME
JETTY
HEADSTOCK PLAN

ENGINEERING CERTIFICATION (RPEQ)

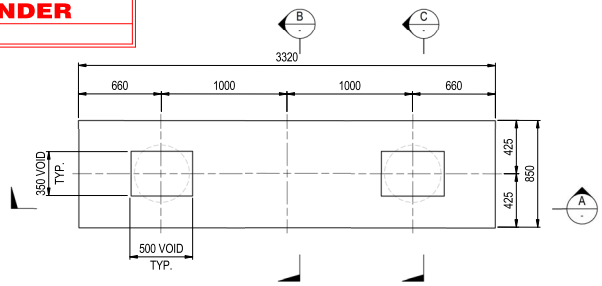
ENG. AREA	NAME	SIGNATURE	NO.	DATE

Queensland Government

File No. 467/00408
Contract. No. CN-12653
Drawing No. 4310 2
Project No. TMR29-130
MRM_Detail (05/14) BN-70-1

ISSUE FOR TENDER

Cardno architectus

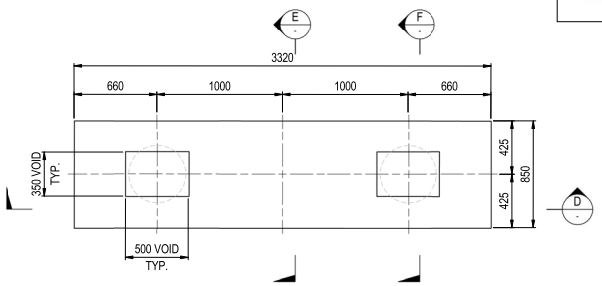


PLAN

TYPICAL PRECAST HEADSTOCK 'HS01' DETAIL

SCALE 1:20

NOTE: PILE PLUG REINFORCEMENT NOT SHOWN FOR CLARITY

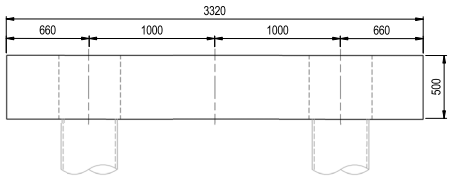


PLAN

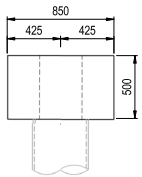
PRECAST HEADSTOCK 'HS02' DETAIL

SCALE 1:20

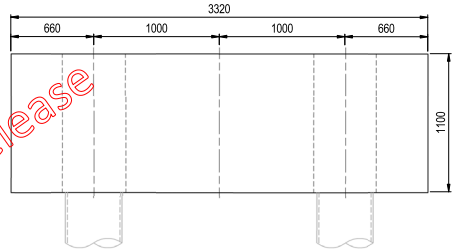
NOTE: PILE PLUG REINFORCEMENT NOT SHOWN FOR CLARITY



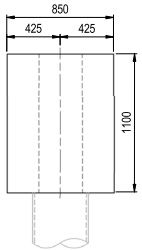
SECTION 'A' GEOMETRIC LAYOUT



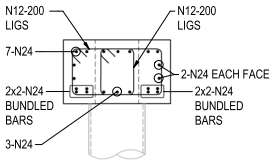
SECTION 'B' GEOMETRIC LAYOUT



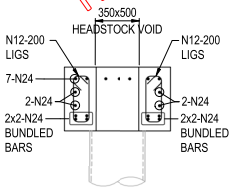
SECTION 'D' GEOMETRIC LAYOUT



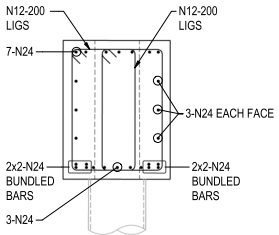
SECTION 'E' GEOMETRIC LAYOUT



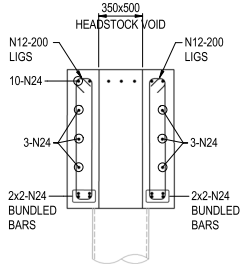
SECTION 'B' REINFORCEMENT DETAILS



SECTION 'C' REINFORCEMENT DETAILS



SECTION 'E' REINFORCEMENT DETAILS



SECTION 'F' REINFORCEMENT DETAILS

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SCALE 1:20

1	ISSUED FOR TENDER		18-08-20	
	Revisions/Descriptions	Certification	Date	Microfiled

CAD FILES | BIM 360://7905-29 SMBI Ferry Terminal Designs/46700408 – SMBI – Karragarra Island – PM – Jetty and Gangway.rvt

Last Modified: - 18/08/2020 9:28:38 PM

Associated Job Nos

Auxiliary Drg Nos

Survey Data: Datum GDA94; Horiz. Grid MGA Z56; Height Origin AHD; Survey Books

Scales: Dimensions shown in millimetres except where shown otherwise

SOUTHERN MORETON BAY
SOUTHERN MORETON BAY ISLANDS
KARRAGARRA ISLAND

FERRY TERMINALS DESIGN

Drawn GW | Checked EC | Designed LB | Design Review MN | Date 18-08-2020

MARITIME
JETTY
HEADSTOCK HS01 AND HS02 DETAILS

ENGINEERING CERTIFICATION (RPEQ)

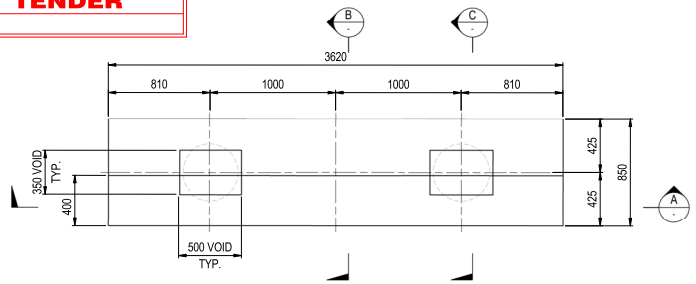
ENG. AREA	NAME	SIGNATURE	NO.	DATE

Queensland Government

File No.	467/00408
Contract. No.	CN-12653
Drawing No.	4311 | 1
Project No.	TMR29-130
MRM_Detail (05/14)	BN-70-1

ISSUE FOR TENDER

Cardno architectus

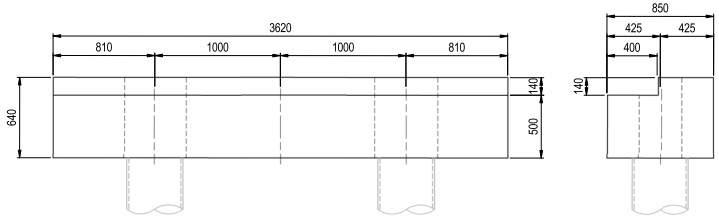


PLAN

TYPICAL PRECAST HEADSTOCK 'HS03' DETAIL

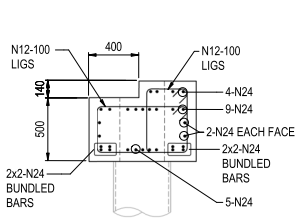
SCALE 1:20

NOTE: PILE PLUG REINFORCEMENT NOT SHOWN FOR CLARITY

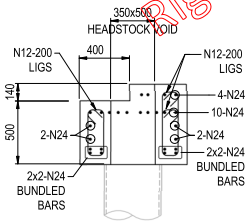


SECTION 'A'
GEOMETRIC LAYOUT

SECTION 'B'
GEOMETRIC LAYOUT



SECTION 'B'
REINFORCEMENT DETAILS



SECTION 'C'
REINFORCEMENT DETAILS

0 400 800 1200 1600 2000

SCALE 1:20

1	ISSUED FOR TENDER		18-08-20	
	Revisions/Descriptions	Certification	Date	Microfiled

CAD FILES: BIM 360://7905-29 SMBI Ferry Terminal Designs/46700408 – SMBI – Karragarra Island – PM – Jetty and Gangway.rvt

Last Modified: - 18/08/2020 9:28:47 PM

Associated Job Nos	Survey Data		Scales
	Datum	GDA94	
Auxiliary Drg Nos	Horiz. Grid	MGA Z56	
	Height Origin	AHD	
	Survey Books		Dimensions shown in millimetres except where shown otherwise

SOUTHERN MORETON BAY
SOUTHERN MORETON BAY ISLANDS
KARRAGARRA ISLAND

FERRY TERMINALS DESIGN

Drawn	GW
Checked	EC
Designed	LB
Design Review	MN
Date	18-08-2020

MARITIME
JETTY
HEADSTOCK HS03 DETAILS

ENGINEERING CERTIFICATION (RPEQ)

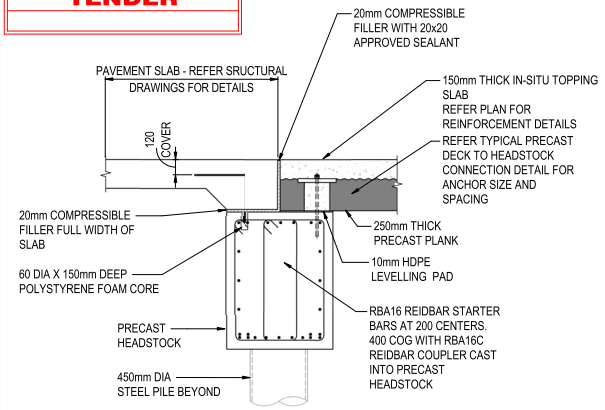
ENG. AREA	NAME	SIGNATURE	NO.	DATE

Queensland Government

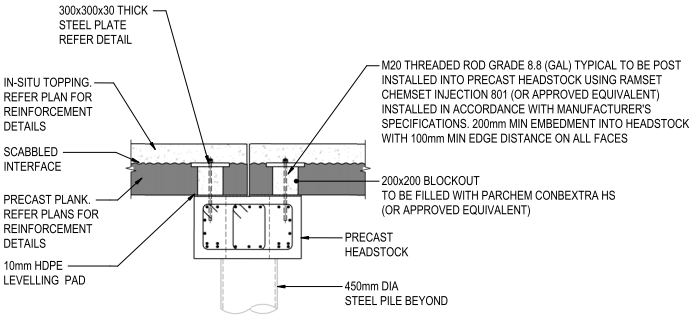
File No.	467/00408
Contract. No.	CN-12653
Drawing No.	4312 1
Project No.	TMR29-130
MRM_Detail (05/14)	BN-70-1

ISSUE FOR TENDER

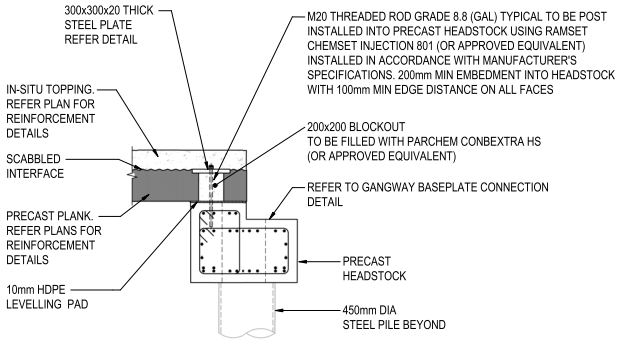
Cardno architectus



LANDSIDE TO HEADSTOCK CONNECTION DETAIL
SCALE 1:20



TYPICAL PRECAST SLAB TO HEADSTOCK CONNECTION DETAIL
SCALE 1:20



TYPICAL PRECAST SLAB TO GANGWAY HEADSTOCK CONNECTION DETAIL
SCALE 1:20

0 400 800 1200 1600 2000
SCALE 1:20

1	ISSUED FOR TENDER		18-08-20	
	Revisions/Descriptions	Certification	Date	Microfiled

CAD FILES | BIM 360://7905-29 SMBI Ferry Terminal Designs/46700408 – SMBI – Karragarra Island – PM – Jetty and Gangway.rvt

Last Modified:- 18/08/2020 9:28:57 PM

Associated Job Nos	Survey Data	
	Datum	GDA94
Auxiliary Drg Nos	Horiz. Grid	MGA Z56
	Height Origin	AHD
	Survey Books	

Scales
Dimensions shown in millimetres except where shown otherwise

SOUTHERN MORETON BAY
SOUTHERN MORETON BAY ISLANDS
KARRAGARRA ISLAND

FERRY TERMINALS DESIGN

Drawn	GW
Checked	EC
Designed	LB
Design Review	MN
Date	18-08-2020

MARITIME
JETTY
HEADSTOCK DETAILS

ENGINEERING CERTIFICATION (RPEQ)

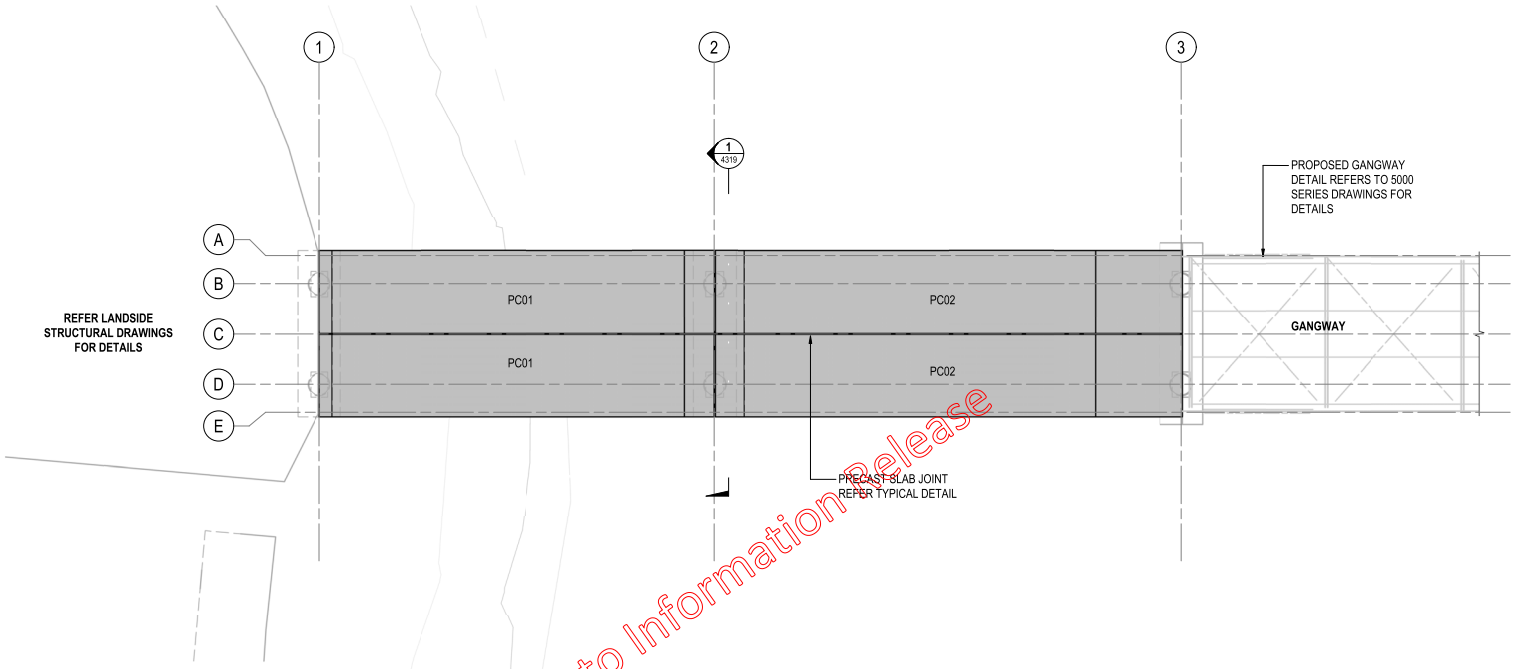
ENG. AREA	NAME	SIGNATURE	NO.	DATE

Queensland Government

File No.	467/00408
Contract. No.	CN-12653
Drawing No.	4313 | 1
Project No.	TMR29-130
MRM_Detail (05/14)	BN-70-1

ISSUE FOR TENDER

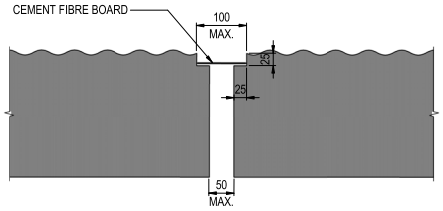
Cardno architectus



PRECAST DECK PLAN

SCALE 1 : 50

PRECAST SLAB SCHEDULE		
MARK	PRECAST DECKTHICKNESS	REINFORCEMENT
PC01	250	REFER TO DRAWING 4315 FOR DETAILS
PC02	250	REFER TO DRAWING 4316 FOR DETAILS



TYPICAL PRECAST SLAB JOINT DETAIL

SCALE 1:5

0 1000 2000 3000 4000 5000

SCALE 1:50

4	ISSUED FOR TENDER		18-08-20	
3	PRELIMINARY DESIGN RE-ISSUE		17-01-20	
2	PRELIMINARY DESIGN ISSUE		08-11-19	
1	ISSUED FOR INTERNAL REVIEW - QS		25-10-19	
	Revisions/Descriptions	Certification	Date	Microfiled

Last Modified :- 18/09/2020 3:29:11 PM

CAD FILES | BIM 360://7905-29 SMBI Ferry Terminal Designs/46700408 – SMBI – Karragarra Island – PM – Jetty and Gangway.rvt

Associated Job Nos

Auxiliary Drg Nos

Survey Data

Datum	GDA94
Horiz. Grid	MGA Z56
Height Origin	AHD
Survey Books	

Scales

Dimensions shown in millimetres except where shown otherwise

SOUTHERN MORETON BAY
SOUTHERN MORETON BAY ISLANDS
KARRAGARRA ISLAND

FERRY TERMINALS DESIGN

Drawn	GW
Checked	EC
Designed	LB
Design Review	MN
Date	18-08-2020

MARITIME
JETTY
PRECAST DECK AND FLOOR FRAMING PLAN - MARITIME

ENGINEERING CERTIFICATION (RPEQ)

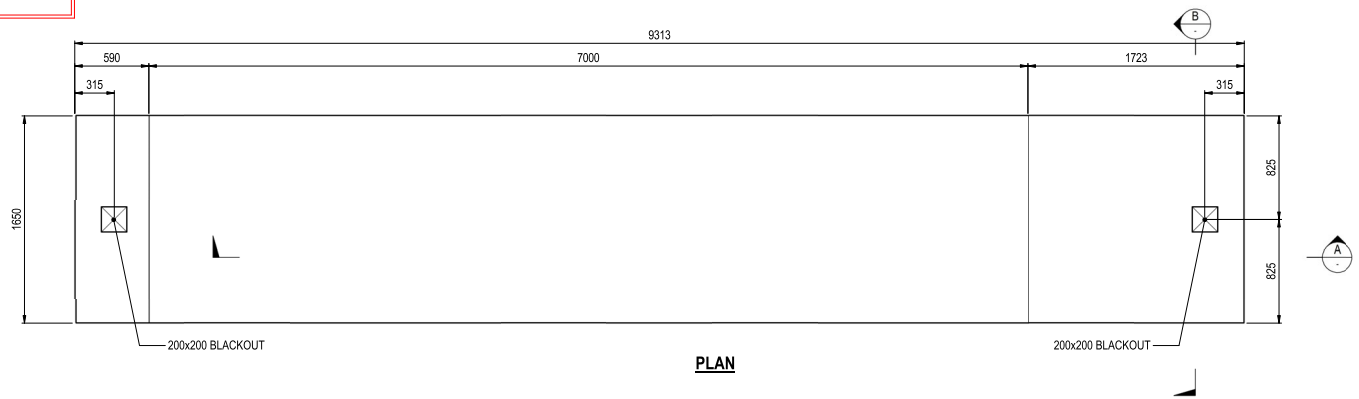
ENG. AREA	NAME	SIGNATURE	NO.	DATE

Queensland Government

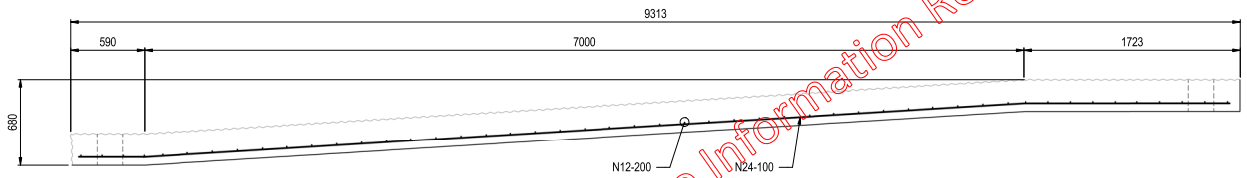
File No.	467/00408
Contract. No.	CN-12653
Drawing No.	4314 | 4
Project No.	TMR29-130
MRM_Detail (05/14)	BN-70-1

ISSUE FOR TENDER

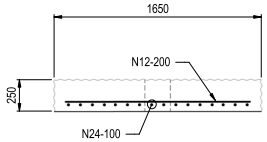
Cardno architectus



PLAN



SECTION A



SECTION B

TYPICAL PRECAST SLAB 'PC01' DETAIL

SCALE 1:20

0 400 800 1200 1600 2000

SCALE 1:20

1	ISSUED FOR TENDER		18-08-20	
	Revisions/Descriptions	Certification	Date	Microfiled

CAD FILES: BIM 360://7905-29 SMBI Ferry Terminal Designs/46700408 – SMBI – Karragarra Island – PM – Jetty and Gangway.rvt

Last Modified: - 18/08/2020 3:29:20 PM

Associated Job Nos

Auxiliary Drg Nos

Survey Data: Datum GDA94; Horiz. Grid MGA Z56; Height Origin AHD; Survey Books

Scales: Dimensions shown in millimetres except where shown otherwise

SOUTHERN MORETON BAY
SOUTHERN MORETON BAY ISLANDS
KARRAGARRA ISLAND

FERRY TERMINALS DESIGN

Drawn	GW
Checked	EC
Designed	LB
Design Review	MN
Date	18.08.2020

MARITIME
JETTY
PRECAST SLAB PC01 DETAILS

ENGINEERING CERTIFICATION (RPEQ)

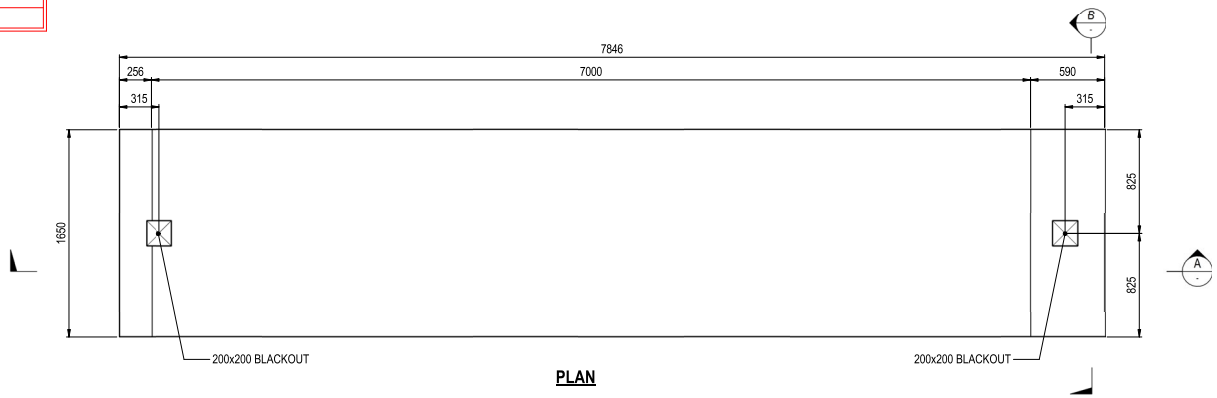
ENG. AREA	NAME	SIGNATURE	NO.	DATE

Queensland Government

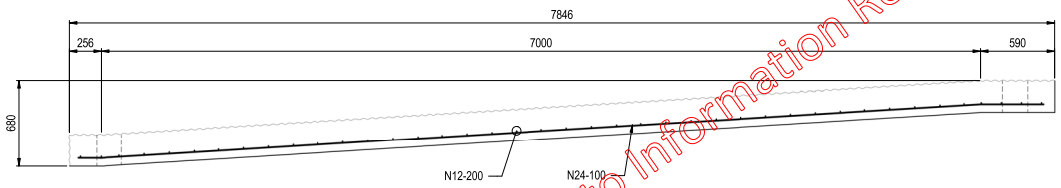
File No.	467/00408
Contract. No.	CN-12653
Drawing No.	4315 | 1
Project No.	TMR29-130
MRM_Detail (05/14)	BN-70-1

ISSUE FOR TENDER

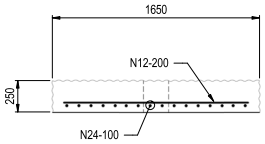
Cardno architectus



PLAN



SECTION A



SECTION B

TYPICAL PRECAST SLAB 'PC02' DETAIL

SCALE 1:20

0 400 800 1200 1600 2000

SCALE 1:20

4	ISSUED FOR TENDER		18-08-20	
3	PRELIMINARY DESIGN RE-ISSUE		17-01-20	
2	PRELIMINARY DESIGN ISSUE		08-11-19	
1	ISSUED FOR INTERNAL REVIEW - QS		25-10-19	
	Revisions/Descriptions	Certification	Date	Microfiled

CAD FILES: BIM 360://7905-29 SMBI Ferry Terminal Designs/46700408 – SMBI – Karragarra Island – PM – Jetty and Gangway.rvt

Last Modified: - 18/09/2020 9:29:39 PM

Associated Job Nos

Auxiliary Drg Nos

Survey Data: Datum GDA94; Horiz. Grid MGA Z56; Height Origin AHD; Survey Books

Scales

Dimensions shown in millimetres except where shown otherwise

SOUTHERN MORETON BAY
SOUTHERN MORETON BAY ISLANDS
KARRAGARRA ISLAND

FERRY TERMINALS DESIGN

Drawn GW
Checked EC
Designed LB
Design Review MN
Date 18-08-2020

MARITIME
JETTY
PRECAST SLAB PC02 DETAILS

ENGINEERING CERTIFICATION (RPEQ)

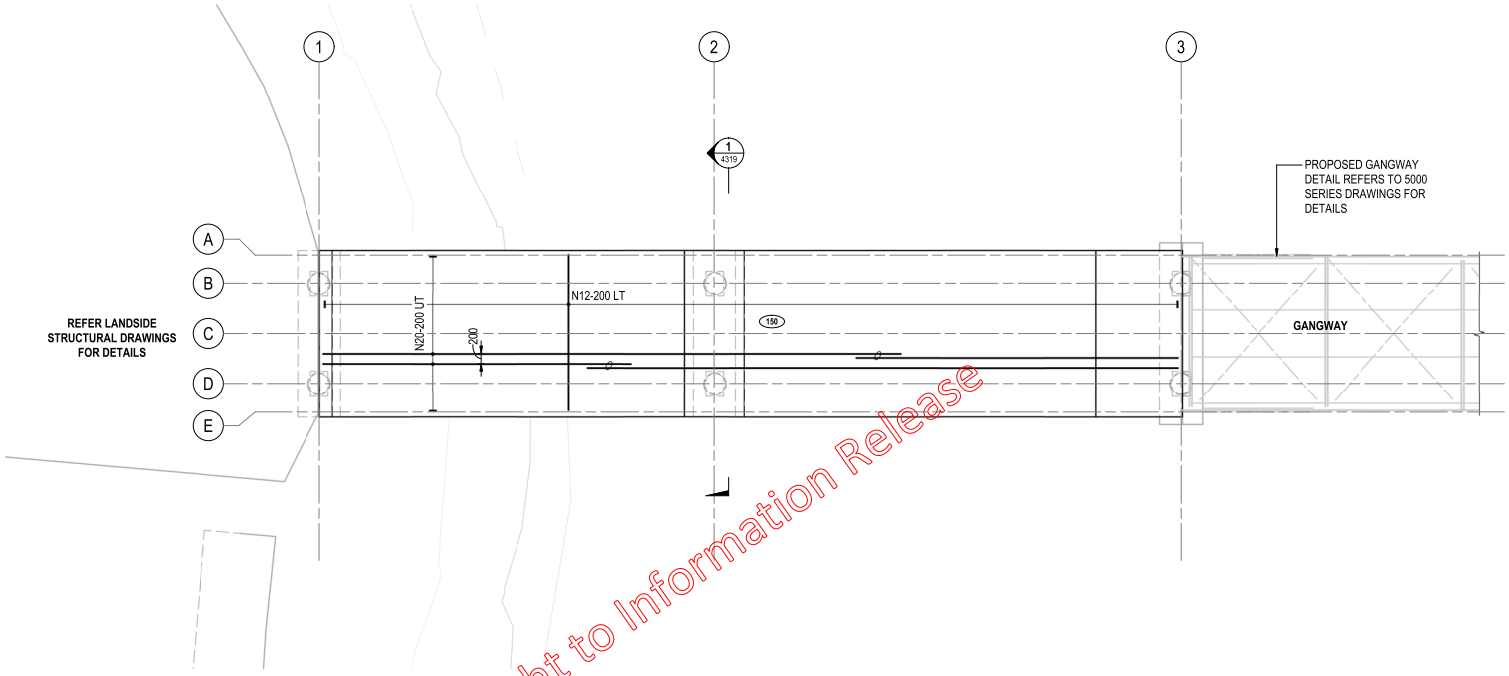
ENG. AREA	NAME	SIGNATURE	NO.	DATE

Queensland Government

File No. 467/00408
Contract. No. CN-12653
Drawing No. 4316 | 4
Project No. TMR29-130
MRM_Detail (05/14) | BN-70-1

ISSUE FOR TENDER

Cardno architectus



INSITU SLAB PLAN
SCALE 1 : 50

NOTE: STAGGERED REINFORCEMENT LAPS

LEGEND

(150)	DENOTES SLAB THICKNESS
UT	DENOTES UPPER TOP REINFORCEMENT
LT	DENOTES LOWER TOP REINFORCEMENT

0 1000 2000 3000 4000 5000
SCALE 1:50

1	ISSUED FOR TENDER		18-08-20	
	Revisions/Descriptions	Certification	Date	Microfiled

CAD FILES: BIM 360://7905-29 SMBI Ferry Terminal Designs/46700408 – SMBI – Karragarra Island – PM – Jetty and Gangway.rvt

Last Modified :- 18/09/2020 9:29:40 PM

Associated Job Nos

Auxiliary Drg Nos

Survey Data: Datum GDA94; Horiz. Grid MGA Z56; Height Origin AHD; Survey Books

Scales: Dimensions shown in millimetres except where shown otherwise

SOUTHERN MORETON BAY
SOUTHERN MORETON BAY ISLANDS
KARRAGARRA ISLAND

FERRY TERMINALS DESIGN

Drawn GW
Checked EC
Designed LB
Design Review MN
Date 18-08-2020

MARITIME
JETTY
INSITU SLAB PLAN

ENGINEERING CERTIFICATION (RPEQ)

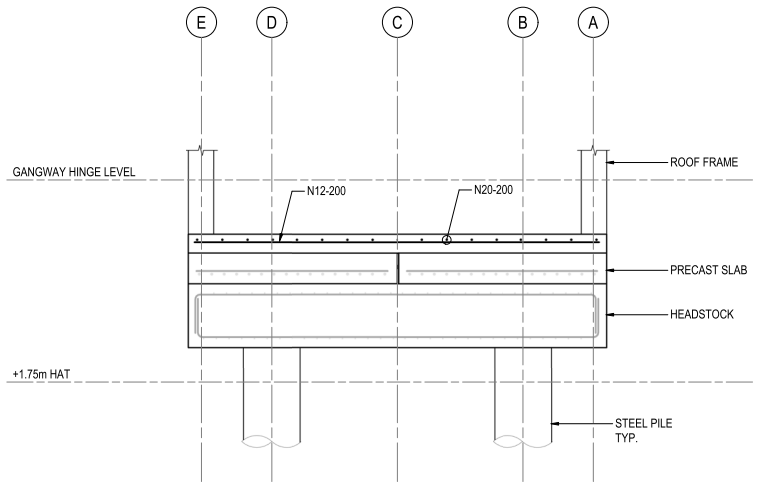
ENG. AREA	NAME	SIGNATURE	NO.	DATE

Queensland Government

File No.	467/00408
Contract. No.	CN-12653
Drawing No.	4318 | 1
Project No.	TMR29-130
MRM_Detail (05/14)	BN-70-1

ISSUE FOR TENDER

Cardno architectus



SECTION 1
SCALE 1 : 20 4314

0 400 800 1200 1600 2000
SCALE 1:20

1	ISSUED FOR TENDER		18-08-20	
	Revisions/Descriptions	Certification	Date	Microfiled

CAD FILES: BIM 360://7905-29 SMBI Ferry Terminal Designs/46700408 – SMBI – Karragarra Island – PM – Jetty and Gangway.rvt

Last Modified: - 18/08/2020 3:29:49 PM

Associated Job Nos

Auxiliary Drg Nos

Survey Data	
Datum	GDA94
Horiz. Grid	MGA Z56
Height Origin	AHD
Survey Books	

Scales

Dimensions shown in millimetres except where shown otherwise

SOUTHERN MORETON BAY
SOUTHERN MORETON BAY ISLANDS
KARRAGARRA ISLAND

FERRY TERMINALS DESIGN

Drawn	GW
Checked	EC
Designed	LB
Design Review	MN
Date	18-08-2020

MARITIME
JETTY
INSITU SLAB SECTION

ENGINEERING CERTIFICATION (RPEQ)

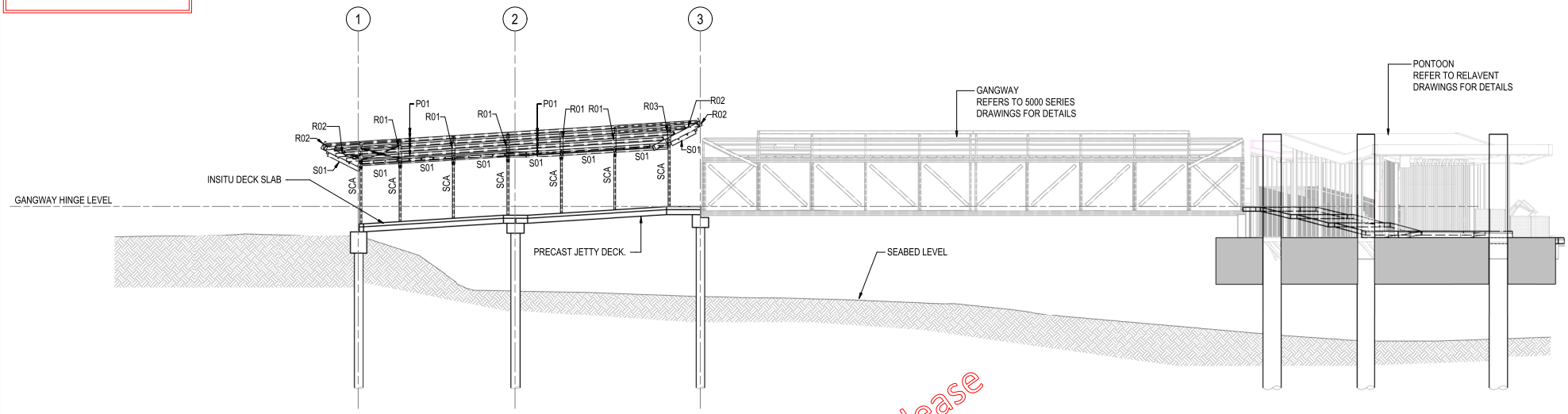
ENG. AREA	NAME	SIGNATURE	NO.	DATE

Queensland Government

File No.	467/00408
Contract. No.	CN-12653
Drawing No.	4319 | 1
Project No.	TMR29-130
MRM_Detail (05/14)	BN-70-1

ISSUE FOR TENDER

Cardno architectus



FRAMING - EAST ELEVATION

SCALE 1 : 100

STRUCTURAL STEEL COLUMN SCHEDULE

MARK	SIZE	REMARKS
SCA	200x100x9.0 RHS	STEEL COLUMN

STRUCTURAL PURLIN SCHEDULE

MARK	SIZE	REMARKS
P01	C15015	PURLINS AT 600 CTS WITH DOWN TURN LIP

STRUCTURAL STEEL MEMBER SCHEDULE

MARK	SIZE	REMARKS
R01	250UB31.4	RAFTER
R02	250x150x 5.0 RHS	RAFTER
R03	250x150x5.0 RHS	WELDED CANTILEVER RAFTER FRAME
R04	200x100x9.0 RHS	JACK RAFTER
R05	250x150x5.0 RHS	RIDGE BEAM
S01	200x100x4.0 RHS	STRUT
S02	100x5.0 SHS	STRUT
T01	20mm DIA. MS ROD	STEEL TIE ROD

0 2000 4000 6000 8000 10000

SCALE 1:100

	Revisions/Descriptions	Certification	Date	Microfiled
5	REVISED ISSUE FOR TENDER		31-08-20	
4	ISSUED FOR TENDER		18-08-20	
3	PRELIMINARY DESIGN RE-ISSUE		17-01-20	
2	PRELIMINARY DESIGN ISSUE		08-11-19	
1	ISSUED FOR INTERNAL REVIEW - QS		25-10-19	

CAD FILES: BIM 360://7905-29 SMBI Ferry Terminal Designs/46700408 – SMBI – Karragarra Island – PM – Jetty and Gangway.rvt

Last Modified: - 31/08/2020 3:14:45 PM

Associated Job Nos

Auxiliary Drg Nos

Survey Data

Datum	GDA94
Horiz. Grid	MGA Z56
Height Origin	AHD
Survey Books	

Scales

Dimensions shown in millimetres except where shown otherwise

SOUTHERN MORETON BAY
SOUTHERN MORETON BAY ISLANDS
KARRAGARRA ISLAND

FERRY TERMINALS DESIGN

Drawn	GW
Checked	EC
Designed	LB
Design Review	MN
Date	31-08-2020

MARITIME
JETTY
FRAMING - EAST ELEVATION

ENGINEERING CERTIFICATION (RPEQ)

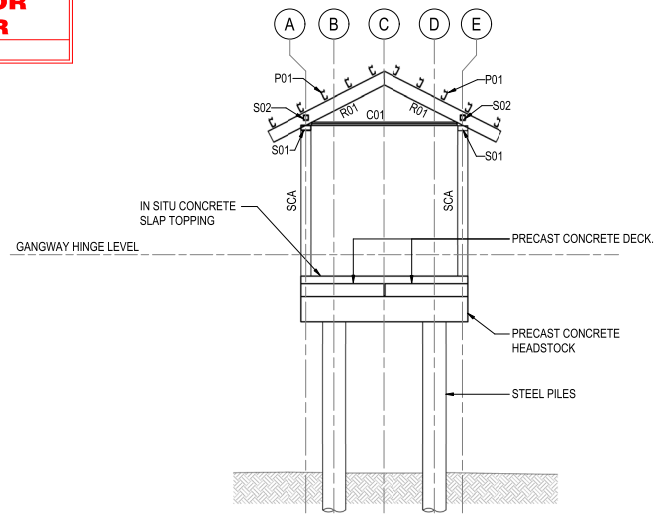
ENG. AREA	NAME	SIGNATURE	NO.	DATE

Queensland Government

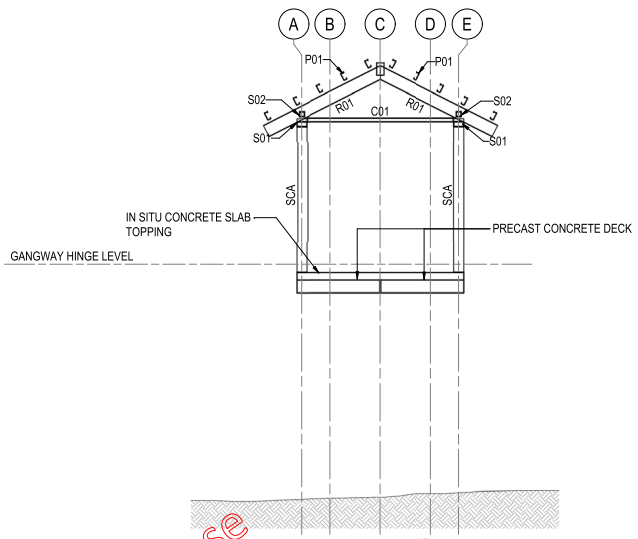
File No.	467/00408
Contract. No.	CN-12653
Drawing No.	4320 5
Project No.	TMR29-130
MRM_Detail (05/14)	BN-70-1

ISSUE FOR TENDER

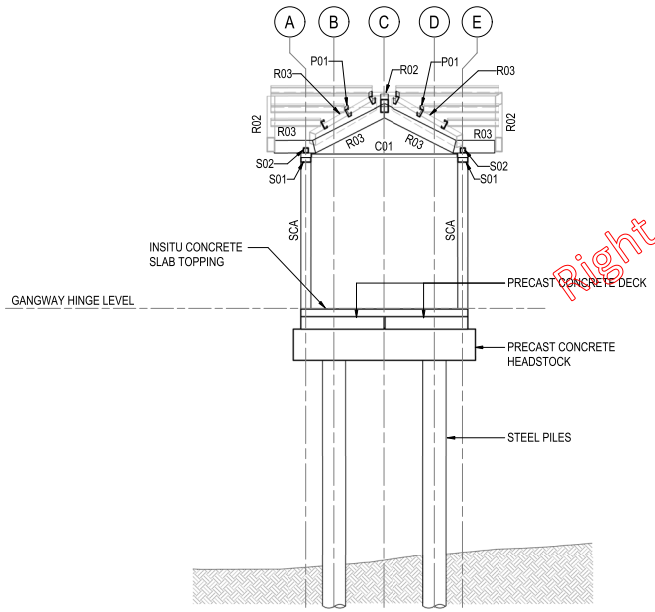
Cardno architectus



SECTION 1 (4340)
SCALE 1 : 50



SECTION 2 (4340)
SCALE 1 : 50



SECTION 3 (4340)
SCALE 1 : 50

0 1000 2000 3000 4000 5000
SCALE 1:50

3	REVISED ISSUE FOR TENDER		31-08-20	
2	ISSUED FOR TENDER		18-08-20	
1	PRELIMINARY DESIGN RE-ISSUE		17-01-20	
	Revisions/Descriptions	Certification	Date	Microfiled

CAD FILES: BIM 360://7905-29 SMBI Ferry Terminal Designs/46700408 – SMBI – Karragarra Island – PM – Jetty and Gangway.rvt

Associated Job Nos:
Auxiliary Drg Nos:

Survey Data	
Datum	GDA94
Horiz. Grid	MGA Z56
Height Origin	AHD
Survey Books	

Scales
Dimensions shown in millimetres except where shown otherwise

SOUTHERN MORETON BAY
SOUTHERN MORETON BAY ISLANDS
KARRAGARRA ISLAND

FERRY TERMINALS DESIGN

Drawn	GW
Checked	EC
Designed	LB
Design Review	MN
Date	31-08-2020

MARITIME
JETTY
SECTIONS

ENGINEERING CERTIFICATION (RPEQ)

ENG. AREA	NAME	SIGNATURE	NO.	DATE

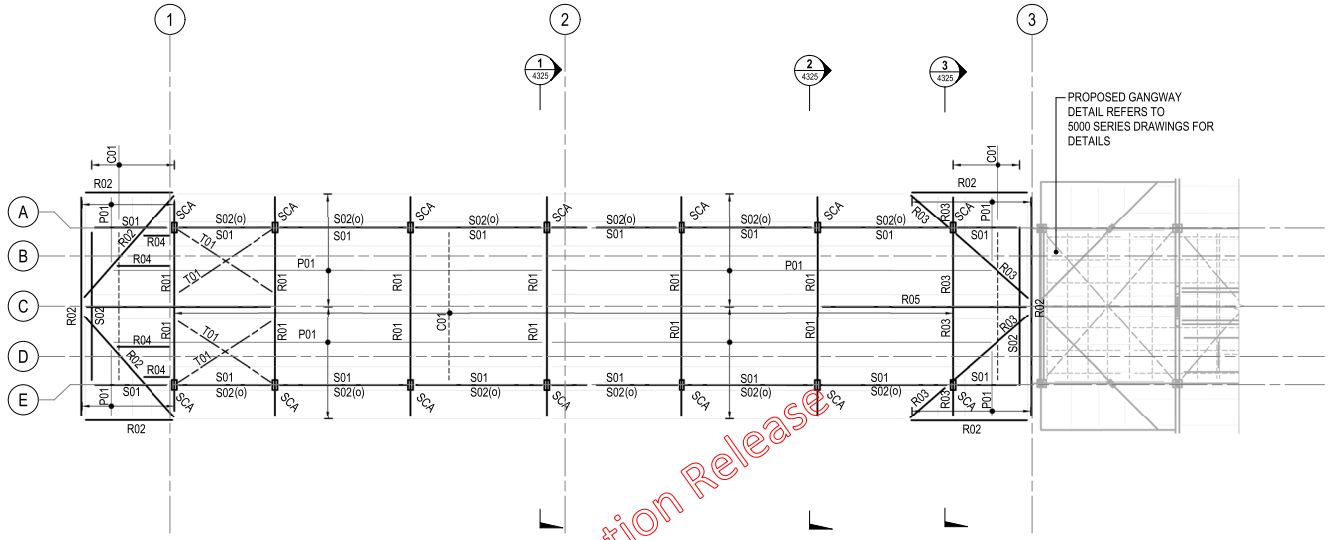
Queensland Government

File No.	467/00408
Contract. No.	CN-12653
Drawing No.	4325 | 3
Project No.	TMR29-130
MRM_Detail (05/14)	BN-70-1

Last Modified :- 31/08/2020 3:16:04 PM

ISSUE FOR TENDER

Cardno architectus



ROOF FRAMING PLAN

SCALE 1 : 50

LEGEND

(o) DENOTES MEMBER OVER

STRUCTURAL COLUMN SCHEDULE		
MARK	**SIZE**	**REMARKS**
SCA	200x100x9.0 RHS	STEEL COLUMN

STRUCTURAL PURLIN SCHEDULE		
MARK	**SIZE**	**REMARKS**
P01	C15015	PURLINS AT 600 CTS WITH DOWN TURN LIP

STRUCTURAL JOIST SCHEDULE		
MARK	**SIZE**	**REMARKS**
C01	75x50x4.0 RHS	CEILING JOIST AT 600 CTS MAX.

STRUCTURAL STEEL MEMBER SCHEDULE		
MARK	**SIZE**	**REMARKS**
R01	250UB31.4	RAFTER
R02	250x150x 5.0 RHS	RAFTER
R03	250x150x5.0 RHS	WELDED CANTILEVER RAFTER FRAME
R04	200x100x9.0 RHS	JACK RAFTER
R05	250x150x5.0 RHS	RIDGE BEAM
S01	200x100x4.0 RHS	STRUT
S02	100x5.0 SHS	STRUT
T01	20mm DIA. MS ROD	STEEL TIE ROD

0 1000 2000 3000 4000 5000

SCALE 1:50

	Revisions/Descriptions	Certification	Date	Microfiled
5	REVISED ISSUE FOR TENDER		31-08-20	
4	ISSUED FOR TENDER		18-08-20	
3	PRELIMINARY DESIGN RE-ISSUE		17-01-20	
2	PRELIMINARY DESIGN ISSUE		08-11-19	
1	ISSUED FOR INTERNAL REVIEW - QS		25-10-19	

Last Modified :- 31/08/2020 3:17:12 PM

CAD FILES | BIM 360://7905-29 SMBI Ferry Terminal Designs/46700408 – SMBI – Karragarra Island – PM – Jetty and Gangway.rvt

Associated Job Nos

Auxiliary Drg Nos

Survey Data	
Datum	GDA94
Horiz. Grid	MGA Z56
Height Origin	AHD
Survey Books	

Scales

Dimensions shown in millimetres except where shown otherwise

SOUTHERN MORETON BAY
SOUTHERN MORETON BAY ISLANDS
KARRAGARRA ISLAND

FERRY TERMINALS DESIGN

Drawn	GW
Checked	EC
Designed	LB
Design Review	MN
Date	31-08-2020

MARITIME
JETTY
ROOF FRAMING PLAN

ENGINEERING CERTIFICATION (RPEQ)

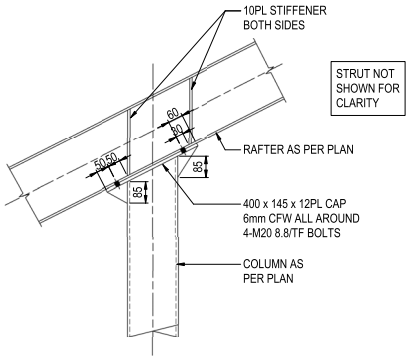
ENG. AREA	NAME	SIGNATURE	NO.	DATE

Queensland Government

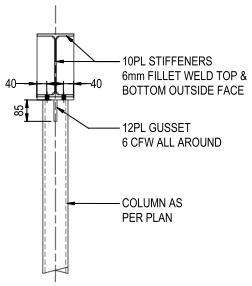
File No.	467/00408
Contract. No.	CN-12653
Drawing No.	4340 | 5
Project No.	TMR29-130
MRM_Detail (05/14)	BN-70-1

ISSUE FOR TENDER

Cardno architectus



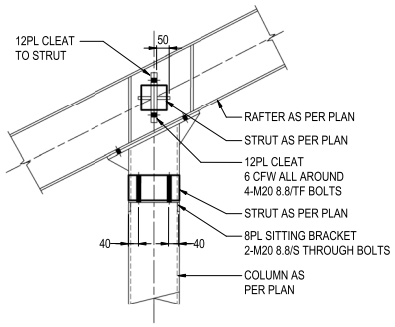
ELEVATION



SECTION

TYPICAL RAFTER TO COLUMN DETAIL

SCALE 1:10



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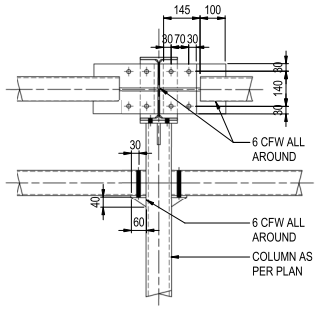
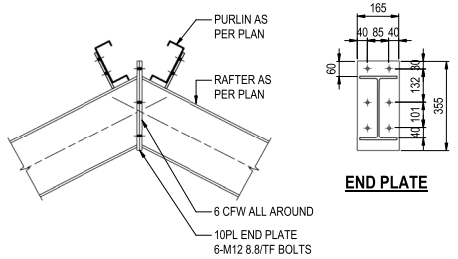


SECTION

TYPICAL STRUT TO COLUMN DETAIL

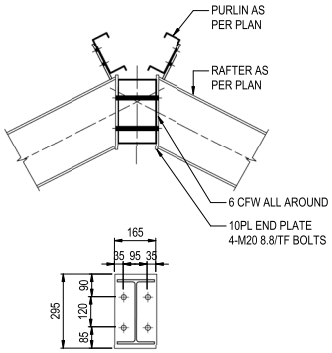
SCALE 1:10



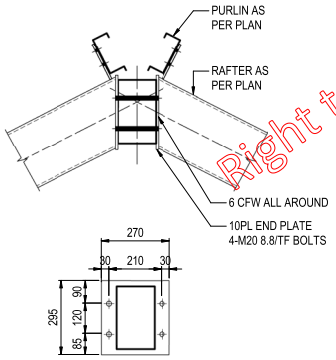
END PLATE

TYPICAL RIDGE CONNECTION DETAIL

SCALE 1:10



END PLATE



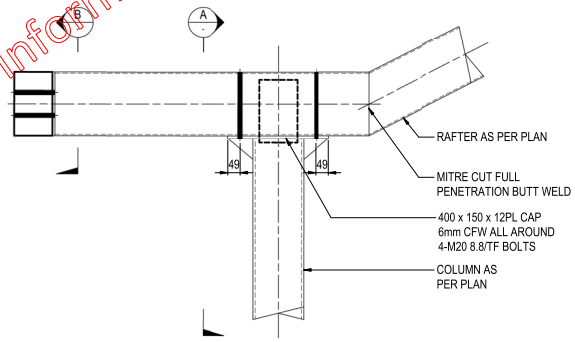
END PLATE

TYPICAL R01 TO R05 RIDGE CONNECTION DETAIL

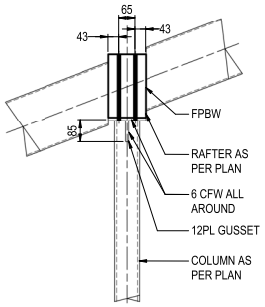
SCALE 1:10

TYPICAL R03 TO R03 RIDGE CONNECTION DETAIL

SCALE 1:10

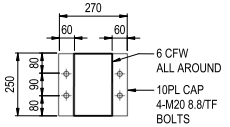


ELEVATION



SECTION A

SCALE 1:10



SECTION B

SCALE 1:10

TYPICAL RHS RAFTER TO COLUMN DETAIL

SCALE 1:10

0 200 400 600 800 1000

SCALE 1:10

2	REVISED ISSUE FOR TENDER		31-08-20	
1	ISSUED FOR TENDER		18-08-20	
	Revisions/Descriptions	Certification	Date	Microfiled

CAD FILES | BIM 360://7905-29 SMBI Ferry Terminal Designs/46700408 – SMBI – Karragarra Island – PM – Jetty and Gangway.rvt

Last Modified :- 31/08/2020 3:18:16 PM

Associated Job Nos	
Auxiliary Drg Nos	
Survey Data	
Datum	GDA94
Horiz. Grid	MGA Z56
Height Origin	AHD
Survey Books	
Scales	Dimensions shown in millimetres except where shown otherwise

SOUTHERN MORETON BAY
SOUTHERN MORETON BAY ISLANDS
KARRAGARRA ISLAND

FERRY TERMINALS DESIGN

Drawn	GW
Checked	EC
Designed	LB
Design Review	MN
Date	31-08-2020

MARITIME
JETTY
ROOF DETAILS - SHEET 1

ENGINEERING CERTIFICATION (RPEQ)

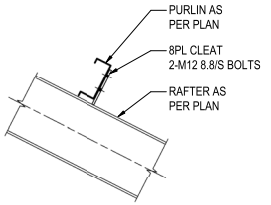
ENG. AREA	NAME	SIGNATURE	NO.	DATE

Queensland Government

File No.	467/00408
Contract. No.	CN-12653
Drawing No.	4345 2
Project No.	TMR29-130
MRM_Detail (05/14)	BN-70-1

ISSUE FOR TENDER

Cardno architectus



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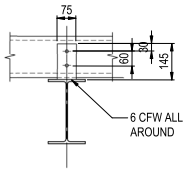

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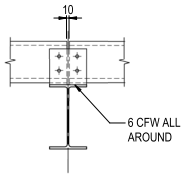

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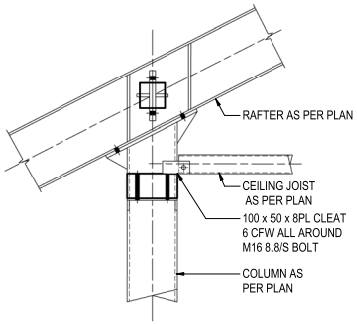

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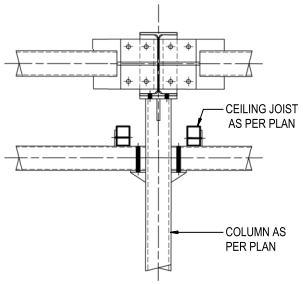

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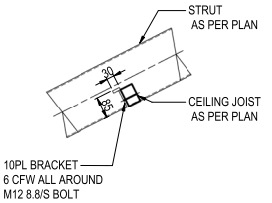

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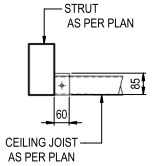
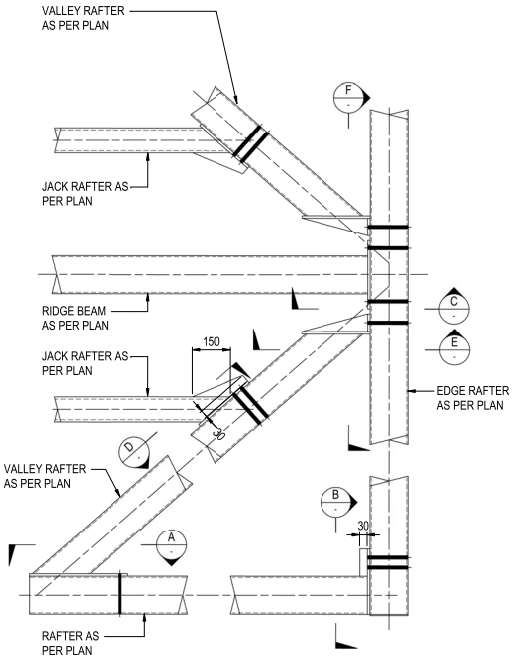


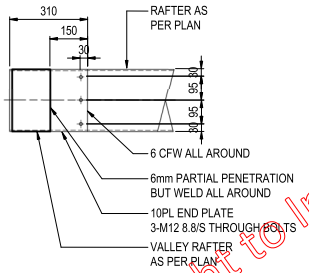
SECTION

TYPICAL PURLIN DETAILS

SCALE 1:10

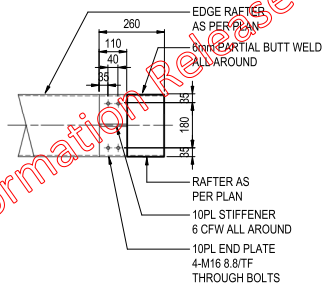


PLAN



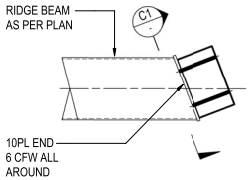
SECTION A

SCALE 1:10



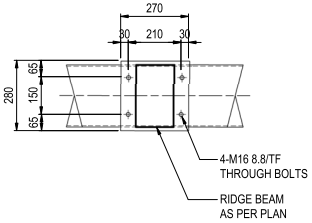
SECTION B

SCALE 1:10



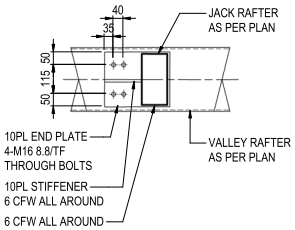
SECTION C

SCALE 1:10



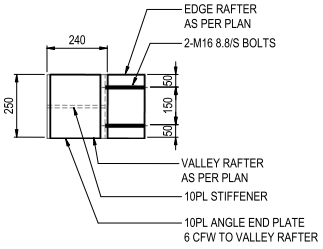
SECTION C1

SCALE 1:10



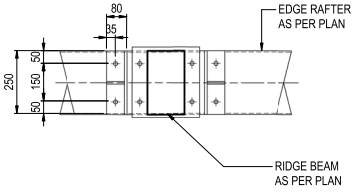
SECTION D

SCALE 1:10



SECTION E

SCALE 1:10



SECTION F

SCALE 1:10

TYPICAL CEILING JOIST CONNECTION DETAIL

SCALE 1:10

TYPICAL CEILING JOIST AT CANTILEVER AT STRUCTURE

SCALE 1:10

TYPICAL CANTILEVER ENDS CONNECTION DETAILS

SCALE 1:10

0 200 400 600 800 1000

SCALE 1:10

2	REVISED ISSUE FOR TENDER		31-08-20	
1	ISSUED FOR TENDER		18-08-20	
	Revisions/Descriptions	Certification	Date	Microfiled

CAD FILES | BIM 360://7905-29 SMBI Ferry Terminal Designs/46700408 – SMBI – Karragarra Island – PM – Jetty and Gangway.rvt

Associated Job Nos

Auxiliary Drg Nos

Survey Data: Datum GDA94; Horiz. Grid MGA Z56; Height Origin AHD; Survey Books

Scales

Dimensions shown in millimetres except where shown otherwise

SOUTHERN MORETON BAY
SOUTHERN MORETON BAY ISLANDS
KARRAGARRA ISLAND

FERRY TERMINALS DESIGN

Drawn GW | Checked EC | Designed LB | Design Review MN | Date 31-08-2020

MARITIME
JETTY
ROOF DETAILS - SHEET 2

ENGINEERING CERTIFICATION (RPEQ)

ENG. AREA	NAME	SIGNATURE	NO.	DATE

Queensland Government

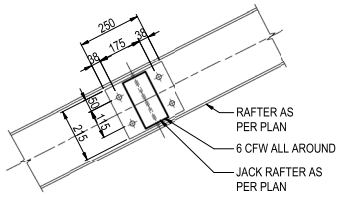
File No.	467/00408
Contract. No.	CN-12653
Drawing No.	4346 2
Project No.	TMR29-130

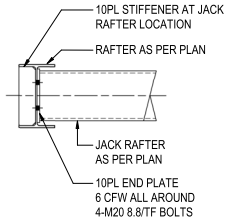
MRM_Detail (05/14) BN-70-1

Last Modified :- 31/08/2020 3:19:09 PM

ISSUE FOR TENDER

Cardno architectus

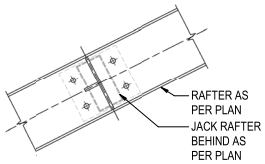


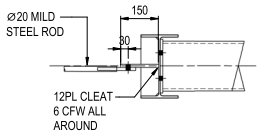


ELEVATION **SECTION**

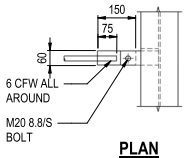
TYPICAL JACK RAFTER TO RAFTER DETAIL

SCALE 1:10





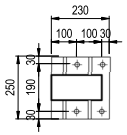
ELEVATION **SECTION**



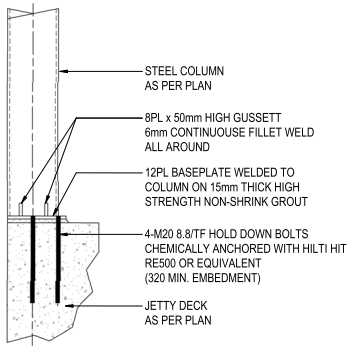
PLAN

TYPICAL TENSION ROD CONNECTION DETAILS

SCALE 1:10



BASEPLATE PLAN



TYPICAL JETTY COLUMN BASEPLATE DETAIL

SCALE 1:10

0 200 400 600 800 1000

SCALE 1:10

2	REVISED ISSUE FOR TENDER		31-08-20	
1	ISSUED FOR TENDER		18-08-20	
	Revisions/Descriptions	Certification	Date	Microfiled

CAD FILES | BIM 360://7905-29 SMBI Ferry Terminal Designs/46700408 – SMBI – Karragarra Island – PM – Jetty and Gangway.rvt

Last Modified - 31/08/2020 3:20:39 PM

Associated Job Nos	
Auxiliary Drg Nos	

Survey Data	
Datum	GDA94
Horiz. Grid	MGA Z56
Height Origin	AHD
Survey Books	

Scales

Dimensions shown in millimetres except where shown otherwise

SOUTHERN MORETON BAY
SOUTHERN MORETON BAY ISLANDS
KARRAGARRA ISLAND

FERRY TERMINALS DESIGN

Drawn	GW
Checked	EC
Designed	LB
Design Review	MN
Date	31-08-2020

MARITIME
JETTY
ROOF DETAILS - SHEET 3

ENGINEERING CERTIFICATION (RPEQ)

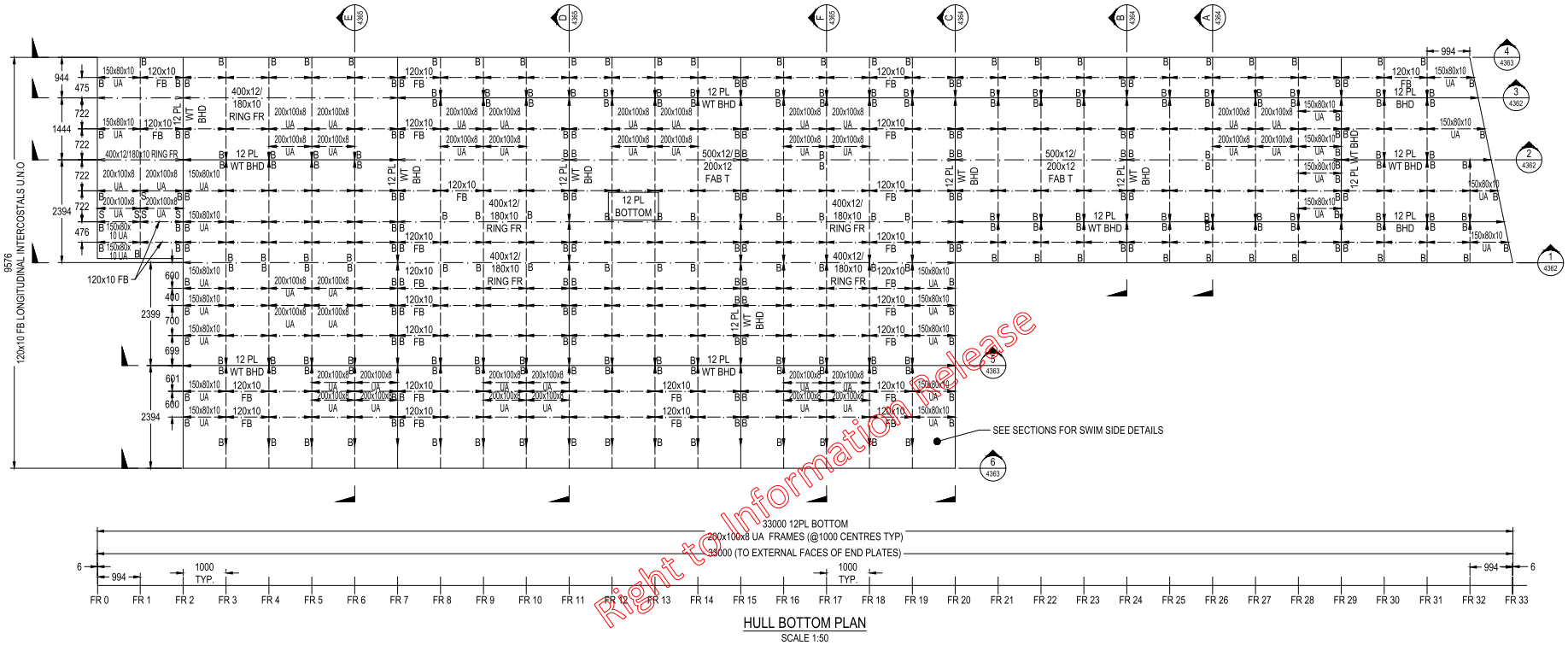
ENG. AREA	NAME	SIGNATURE	NO.	DATE

Queensland Government

File No.	467/00408
Contract. No.	CN-12653
Drawing No.	4347 2
Project No.	TMR29-130
MRM_Detail (05/14)	BN-70-1

ISSUE FOR TENDER

Cardno architectus



HULL BOTTOM PLAN
SCALE 1:50

NOTES

1. CONSTRUCTION SHALL BE TO THE SATISFACTION OF THE ATTENDING SURVEYOR.
2. ALUMINIUM PLATE SHALL BE GRADE 5083-H321 OR APPROVED EQUIVALENT. MIN MECHANICAL PROPERTIES: 125MPA YIELD, 275MPA UTS.
3. ALUMINIUM EXTRUSION SHALL BE GRADE 6061-T6 OR APPROVED EQUIVALENT. MIN MECHANICAL PROPERTIES: 125MPA YIELD, 190MPA UTS.
4. ALUMINIUM FILLER WIRE SHALL BE 5183 OR 5356.
5. WELDING SHALL BE IN ACCORDANCE WITH THE APPROVED WELD SCHEDULE & AS1665 FOR QUALITY.
6. DIMENSIONS ARE IN MILLIMETERS U.N.O.
7. ALL FRAMES FALL FORWARD FROM THE DATUM, AND OUTBOARD FROM THE CENTRELINE.
8. STRUCTURE IS SYMMETRICAL AROUND THE CENTRELINE UNLESS NOTED OTHERWISE.
9. ALL BRACKETS TYPE 1 U.N.O
10. FOR BALLAST TANK AND EXTERNAL HULL COATINGS, PLEASE REFER TO THE SPECIFICATION.
11. FOR CONSTRUCTION DISTORTION LIMITS REFER TO IACS NO.47 FOR GUIDANCE.
12. DRAWING TO BE READ IN CONJUNCTION WITH LATEST REVISION OF:
    - 4361: HULL PLANS SHEET 2
    - 4362: HULL PROFILES SHEET 1
    - 4363: HULL PROFILES SHEET 2
    - 4364: HULL SECTIONS SHEET 1
    - 4365: HULL SECTIONS SHEET 2
    - 4366: HULL DETAILS SHEET 1
    - 4367: HULL DETAILS SHEET 2
    - 4368: HULL DETAILS SHEET 3
    - 4369: BRACKET DETAILS
    - 4370: HATCH DETAILS
    - 4371: AL WELD SCHEDULE

LEGEND

STIFFENER TERMINATING	
GIRDER TERMINATING	
SEAM MARK TRANSVERSE	
SEAM MARK PROFILE	
STIFFENER SNIPE	
FACEBAR/RIDER SNIPE	
REVISION INDICATOR	
TURNING FRAME	
END FIXETY BRACKET	B
STIFFENER SNIPE	S

0 1000 2000 3000 4000 5000
SCALE 1:50 @ A1

	Revisions/Descriptions	Certification	Date	Microfiled
4	ISSUED FOR TENDER		14–08–20	
3	PRELIMINARY DESIGN RE–ISSUE		19–12–19	
2	PRELIMINARY DESIGN ISSUE		08–11–19	
1	ISSUED FOR INTERNAL REVIEW		25–10–19	

Associated Job Nos
Auxiliary Drg Nos

Survey Data: Datum, Horiz. Grid, Height Origin, Survey Books

Scales

Dimensions shown in millimetres except where shown otherwise

SOUTHERN MORETON BAY
SOUTHERN MORETON BAY ISLANDS
KARRAGARRA ISLAND

FERRY TERMINALS DESIGN

Drawn	S.H
Checked	O.D.S
Designed	N.E.B
Design Review	
Date.	14–08–20

MARITIME
PONTOON
HULL PLANS SHEET 1

ENGINEERING CERTIFICATION (RPEQ)

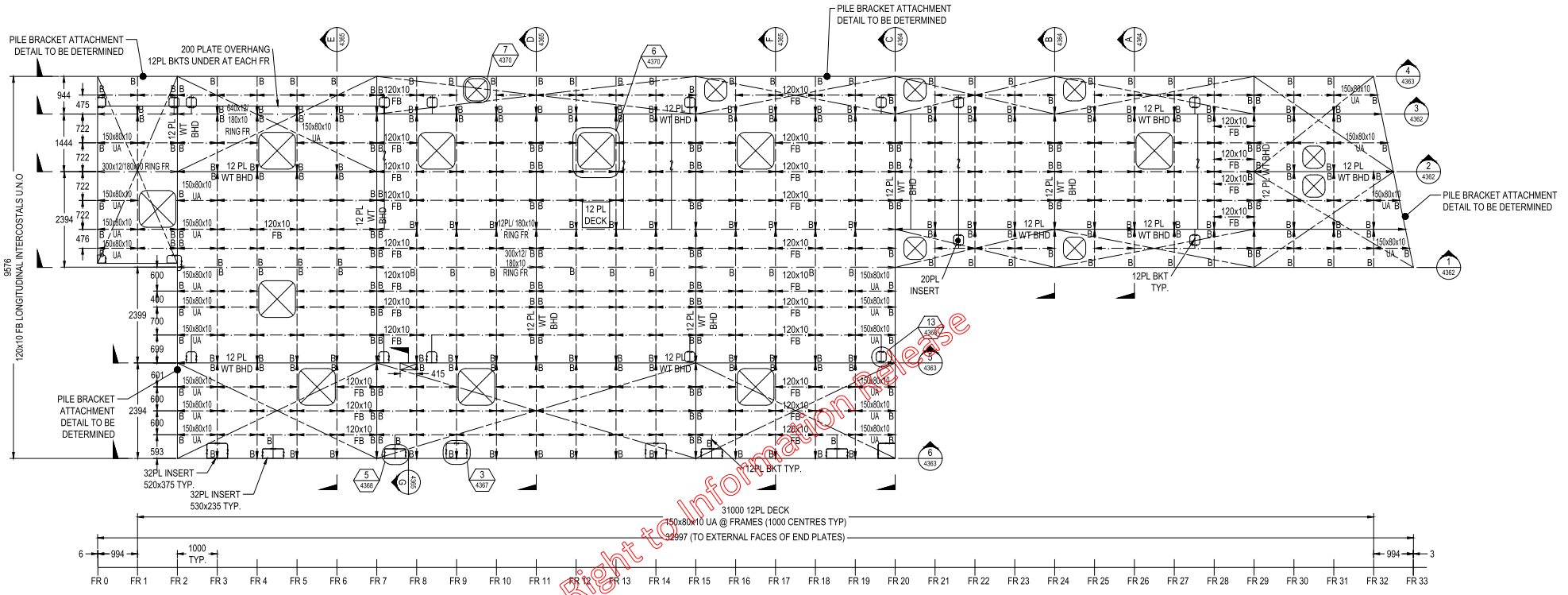
ENG. AREA	NAME	SIGNATURE	NO.	DATE

Queensland Government

File No.	467/00408
Contract. No.	CN–12653
Drawing No.	4360 | 4
Project No.	TMR29–130
MRM_Detail (05/14)	BN–70–1

ISSUE FOR TENDER

Cardno architectus



DECK PLAN
SCALE 1:50

NOTES

1. CONSTRUCTION SHALL BE TO THE SATISFACTION OF THE ATTENDING SURVEYOR.
2. ALUMINIUM PLATE SHALL BE GRADE 5083-H321 OR APPROVED EQUIVALENT. MIN MECHANICAL PROPERTIES: 125MPA YIELD, 275MPA UTS.
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11. FOR CONSTRUCTION DISTORTION LIMITS REFER TO IACS NO.47 FOR GUIDANCE.
12. DRAWING TO BE READ IN CONJUNCTION WITH LATEST REVISION OF:
    - 4360: HULL PLANS SHEET 1
    - 4362: HULL PROFILES SHEET 1
    - 4363: HULL PROFILES SHEET 2
    - 4364: HULL SECTIONS SHEET 1
    - 4365: HULL SECTIONS SHEET 2
    - 4366: HULL DETAILS SHEET 1
    - 4367: HULL DETAILS SHEET 2
    - 4368: HULL DETAILS SHEET 3
    - 4369: BRACKET DETAILS
    - 4370: HATCH DETAILS
    - 4371: AL WELD SCHEDULE

LEGEND

STIFFENER TERMINATING	
GIRDER TERMINATING	
SEAM MARK TRANSVERSE	
SEAM MARK PROFILE	
STIFFENER SNIPE	
FACEBAR/RIDER SNIPE	
REVISION INDICATOR	
TURNING FRAME	
END FIXETY BRACKET	B
STIFFENER SNIPE	S

0 1000 2000 3000 4000 5000
SCALE 1:50 @ A1

	Revisions/Descriptions	Certification	Date	Microfiled
4	ISSUED FOR TENDER		14-08-20	
3	PRELIMINARY DESIGN RE-ISSUE		19-12-19	
2	PRELIMINARY DESIGN ISSUE		08-11-19	
1	ISSUED FOR INTERNAL REVIEW		25-10-19	

Associated Job Nos
Auxiliary Drg Nos
Survey Data: Datum, Horiz. Grid, Height Origin, Survey Books
Scales
Dimensions shown in millimetres except where shown otherwise

SOUTHERN MORETON BAY
SOUTHERN MORETON BAY ISLANDS
KARRAGARRA ISLAND

FERRY TERMINALS DESIGN

Drawn S.H
Checked O.D.S
Designed N.E.B
Design Review
Date. 14-08-20

MARITIME
PONTOON
HULL PLANS SHEET 2

ENGINEERING CERTIFICATION (RPEQ)

ENG. AREA	NAME	SIGNATURE	NO.	DATE

Queensland Government

File No.	467/00408
Contract. No.	CN-12653
Drawing No.	4361 | 4
Project No.	TMR29-130
MRM_Detail (05/14)	BN-70-1

ISSUE FOR TENDER

Cardno architectus

LEGEND

STIFFENER TERMINATING	
GIRDER TERMINATING	
SEAM MARK TRANSVERSE	
SEAM MARK PROFILE	
STIFFENER SNIPE	
FACEBAR/RIDER SNIPE	
REVISION INDICATOR	
TURNING FRAME	
END FIXETY BRACKET	B
STIFFENER SNIPE	S

NOTES

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    - 4365: HULL SECTIONS SHEET 2
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    - 4367: HULL DETAILS SHEET 2
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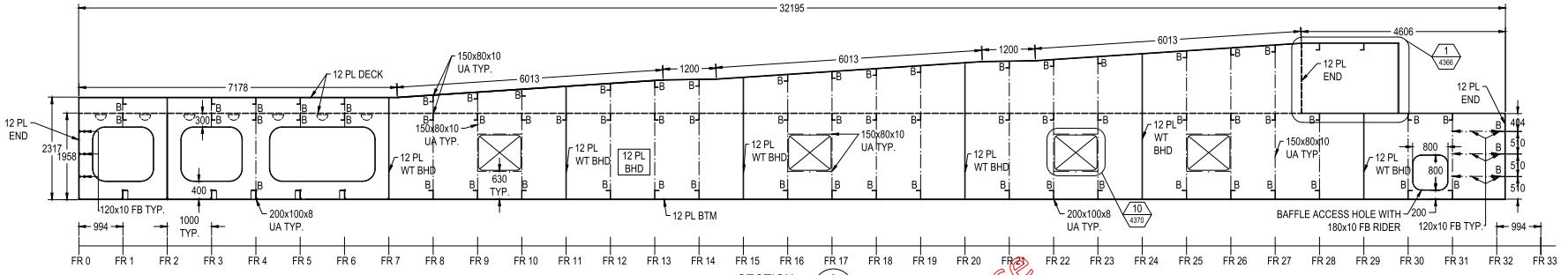
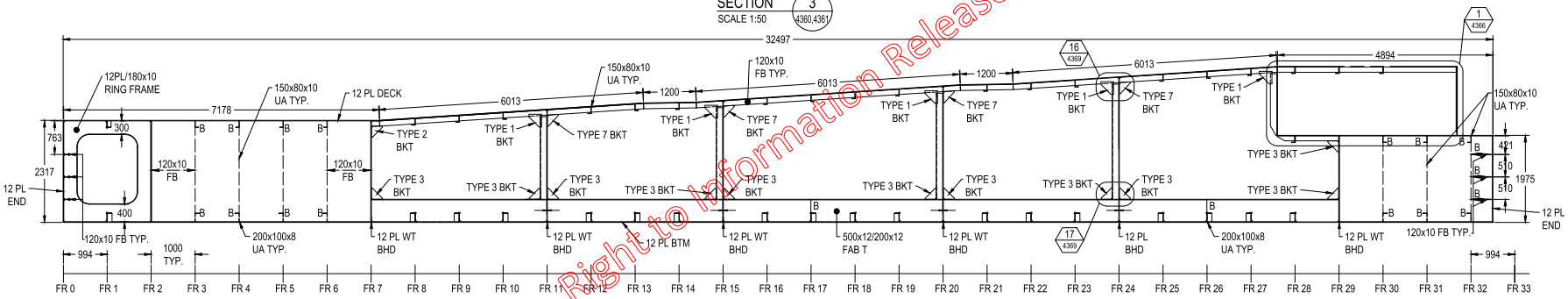
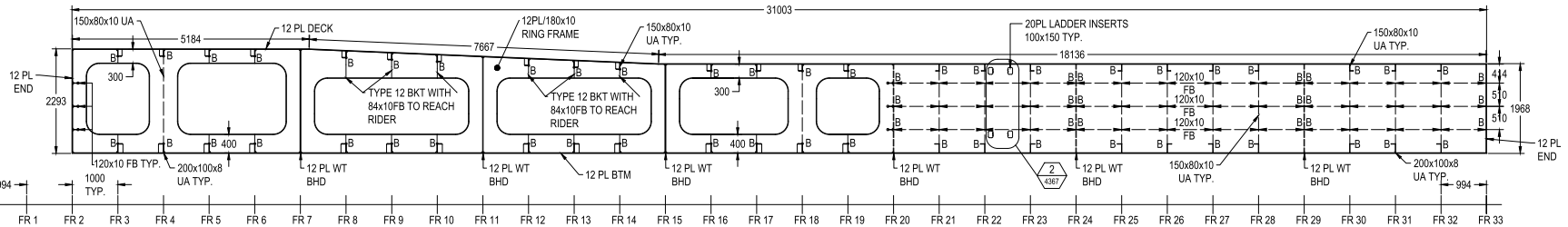
    - 4369: BRACKET DETAILS
    - 4370: HATCH DETAILS
    - 4371: AL WELD SCHEDULE



SECTION 3 (4360,4361) SCALE 1:50



SECTION 2 (4360,4361) SCALE 1:50



SECTION 1 (4360,4361) SCALE 1:50

0 1000 2000 3000 4000 5000
SCALE 1:50 @ A1

4	ISSUED FOR TENDER		14-08-20	
3	PRELIMINARY DESIGN RE-ISSUE		19-12-19	
2	PRELIMINARY DESIGN ISSUE		08-11-19	
1	ISSUED FOR INTERNAL REVIEW		25-10-19	
	Revisions/Descriptions	Certification	Date	Microfiled

Associated Job Nos

Auxiliary Drg Nos

Survey Data: Datum, Horiz. Grid, Height Origin, Survey Books

Scales

Dimensions shown in millimetres except where shown otherwise

SOUTHERN MORETON BAY
SOUTHERN MORETON BAY ISLANDS
KARRAGARRA ISLAND

FERRY TERMINALS DESIGN

Drawn	S.H
Checked	O.D.S
Designed	N.E.B
Design Review	
Date	14-08-20

MARITIME
PONTOON
HULL PROFILES SHEET 1

ENGINEERING CERTIFICATION (RPEQ)

ENG. AREA	NAME	SIGNATURE	NO.	DATE

Queensland Government

File No.	467/00408
Contract. No.	CN-12653
Drawing No.	4362 | 4
Project No.	TMR29-130
MRM_Detail (05/14)	BN-70-1

ISSUE FOR TENDER

Cardno architectus

LEGEND

STIFFENER TERMINATING	
GIRDER TERMINATING	
SEAM MARK TRANSVERSE	
SEAM MARK PROFILE	
STIFFENER SNIPE	
FACEBAR/RIDER SNIPE	
REVISION INDICATOR	
TURNING FRAME	B
END FIXETY BRACKET	S
STIFFENER SNIPE	

NOTES

1. CONSTRUCTION SHALL BE TO THE SATISFACTION OF THE ATTENDING SURVEYOR.
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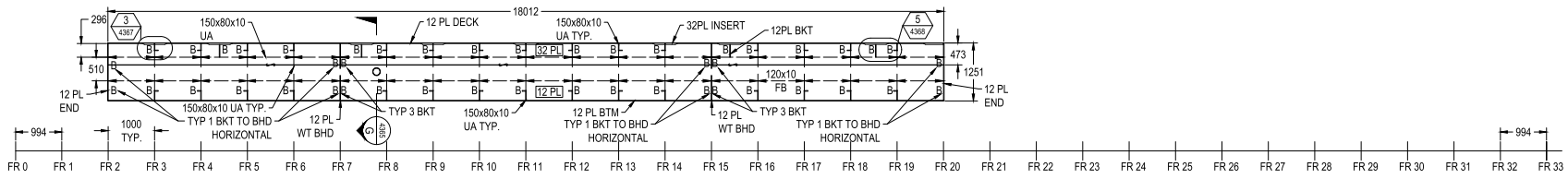
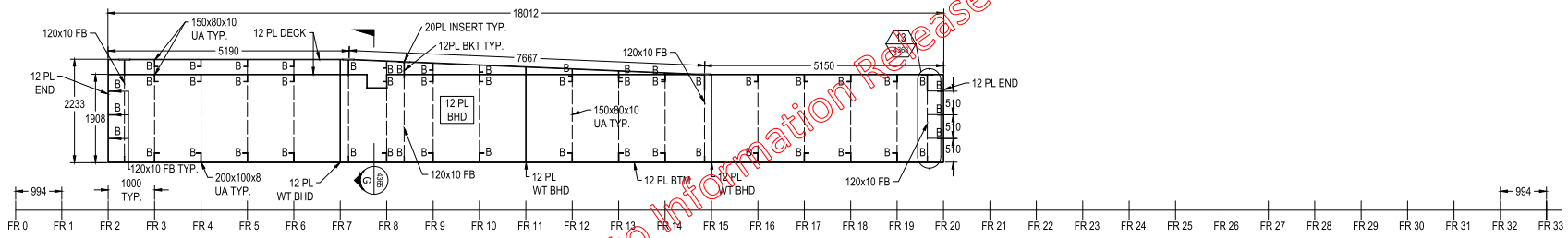
5. WELDING SHALL BE IN ACCORDANCE WITH THE APPROVED WELD SCHEDULE & AS1665 FOR QUALITY.
6. DIMENSIONS ARE IN MILLIMETERS U.N.O.
7. ALL FRAMES FALL FORWARD FROM THE DATUM, AND OUTBOARD FROM THE CENTRELINE.
8. STRUCTURE IS SYMMETRICAL AROUND THE CENTRELINE UNLESS NOTED OTHERWISE.
9. ALL BRACKETS TYPE 1 U.N.O
10. FOR BALLAST TANK AND EXTERNAL HULL COATINGS, PLEASE REFER TO THE SPECIFICATION.
11. FOR CONSTRUCTION DISTORTION LIMITS REFER TO IACS NO.47 FOR GUIDANCE.
12. DRAWING TO BE READ IN CONJUNCTION WITH LATEST REVISION OF:
    - 4360: HULL PLANS SHEET 1
    - 4361: HULL PLANS SHEET 2
    - 4362: HULL PROFILES SHEET 1
    - 4364: HULL SECTIONS SHEET 1
    - 4365: HULL SECTIONS SHEET 2
    - 4366: HULL DETAILS SHEET 1
    - 4367: HULL DETAILS SHEET 2
    - 4368: HULL DETAILS SHEET 3
    - 4369: BRACKET DETAILS
    - 4370: HATCH DETAILS
    - 4371: AL WELD SCHEDULE



SECTION 6 (4360,4361)
SCALE 1:50



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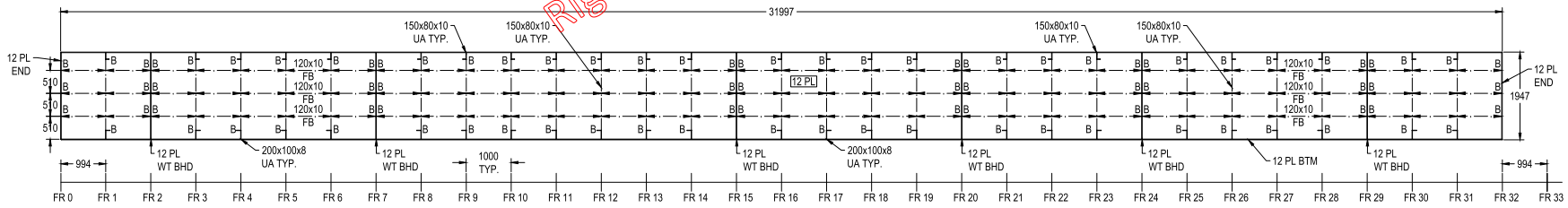
SCALE 1:50



SECTION 4 (4360,4361)
SCALE 1:50

0 1000 2000 3000 4000 5000
SCALE 1:50 @ A1

4	ISSUED FOR TENDER		14-08-20		
3	PRELIMINARY DESIGN RE-ISSUE		19-12-19		
2	PRELIMINARY DESIGN ISSUE		08-11-19		
1	ISSUED FOR INTERNAL REVIEW		25-10-19		
	Revisions/Descriptions	Certification	Date	Microfiled	

Associated Job Nos
Auxiliary Drg Nos

Survey Data: Datum, Horiz. Grid, Height Origin, Survey Books

Scales

Dimensions shown in millimetres except where shown otherwise

SOUTHERN MORETON BAY
SOUTHERN MORETON BAY ISLANDS
KARRAGARRA ISLAND

FERRY TERMINALS DESIGN

Drawn	S.H
Checked	O.D.S
Designed	N.E.B
Design Review	
Date.	14-08-20

MARITIME
PONTOON
HULL PROFILES SHEET 2

ENGINEERING CERTIFICATION (RPEQ)

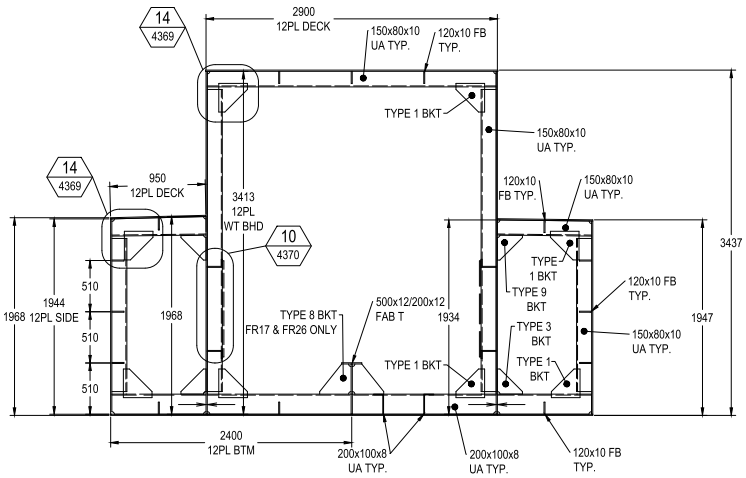
ENG. AREA	NAME	SIGNATURE	NO.	DATE

Queensland Government

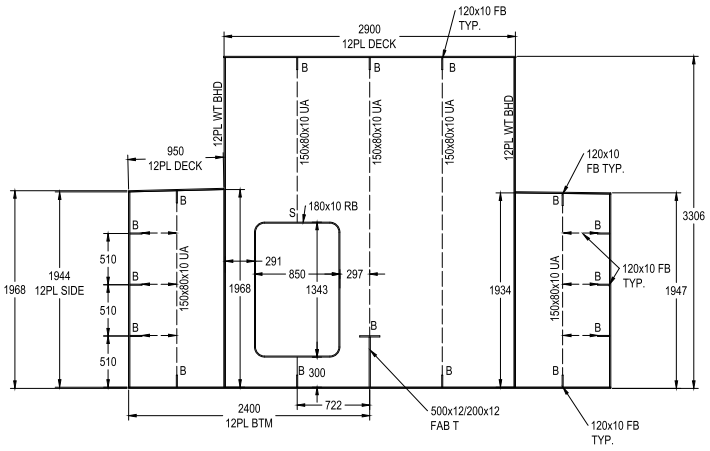
File No.	467/00408
Contract. No.	CN-12653
Drawing No.	4363 | 4
Project No.	TMR29-130
MRM_Detail (05/14)	BN-70-1

ISSUE FOR TENDER

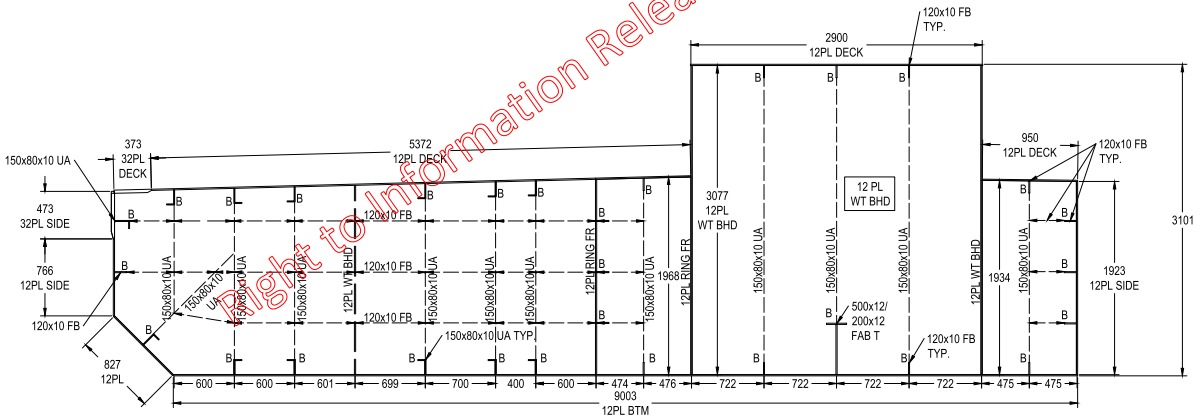
Cardno architectus



SECTION A (4360,4361)
SCALE 1:25



SECTION B (4360,4361)
SCALE 1:25



SECTION C (4360,4361)
SCALE 1:25

NOTES

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    - 4363: HULL PROFILES SHEET 2
    - 4365: HULL SECTIONS SHEET 2
    - 4366: HULL DETAILS SHEET 1
    - 4367: HULL DETAILS SHEET 2
    - 4368: HULL DETAILS SHEET 3
    - 4369: BRACKET DETAILS
    - 4370: HATCH DETAILS
    - 4371: AL WELD SCHEDULE

LEGEND

STIFFENER TERMINATING	
GIRDER TERMINATING	
SEAM MARK TRANSVERSE	A
SEAM MARK PROFILE	
STIFFENER SNIPE	
FACEBAR/RIDER SNIPE	
REVISION INDICATOR	△
TURNING FRAME	⌀
END FIXETY BRACKET	B
STIFFENER SNIPE	S

0 500 1000 1500 2000 2500
SCALE 1:25 @ A1

4	ISSUED FOR TENDER		14-08-20	
3	PRELIMINARY DESIGN RE-ISSUE		19-12-19	
2	PRELIMINARY DESIGN ISSUE		08-11-19	
1	ISSUED FOR INTERNAL REVIEW		25-10-19	
	Revisions/Descriptions	Certification	Date	Microfiled

Associated Job Nos
Auxiliary Drg Nos

Survey Data: Datum, Horiz. Grid, Height Origin, Survey Books

Scales

Dimensions shown in millimetres except where shown otherwise

SOUTHERN MORETON BAY
SOUTHERN MORETON BAY ISLANDS
KARRAGARRA ISLAND

FERRY TERMINALS DESIGN

Drawn	S.H.
Checked	O.D.S
Designed	N.E.B
Design Review	
Date.	14-08-20

MARITIME
PONTOON
HULL SECTIONS SHEET 1

ENGINEERING CERTIFICATION (RPEQ)

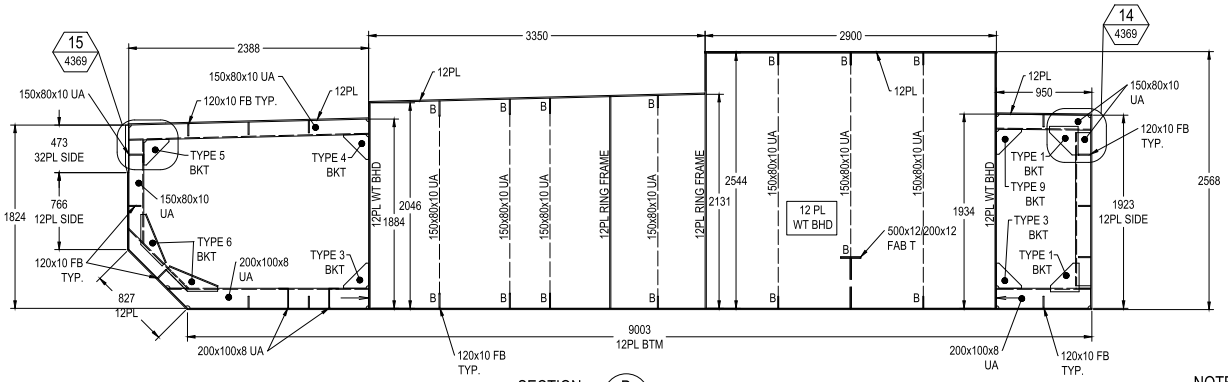
ENG. AREA	NAME	SIGNATURE	NO.	DATE

Queensland Government

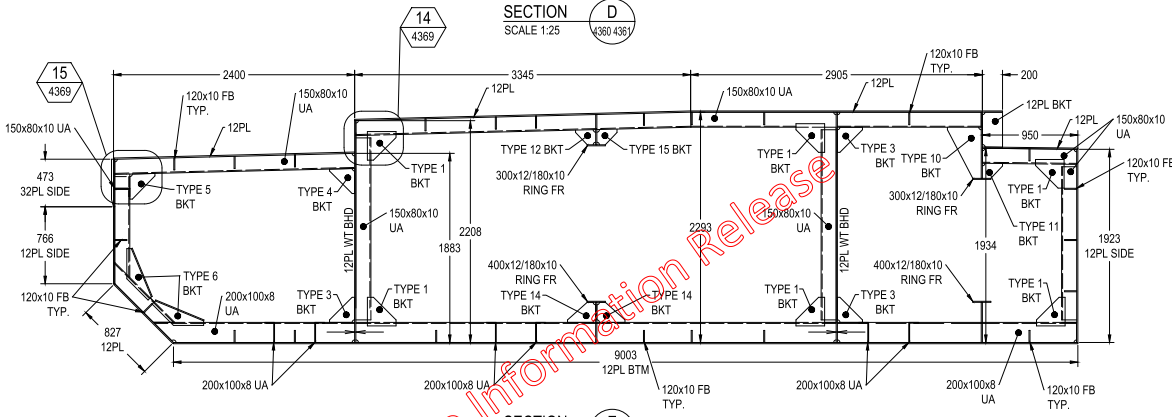
File No.	467/00408
Contract. No.	CN-12653
Drawing No.	4364 | 4
Project No.	TMR29-130
MRM_Detail (05/14)	BN-70-1

ISSUE FOR TENDER

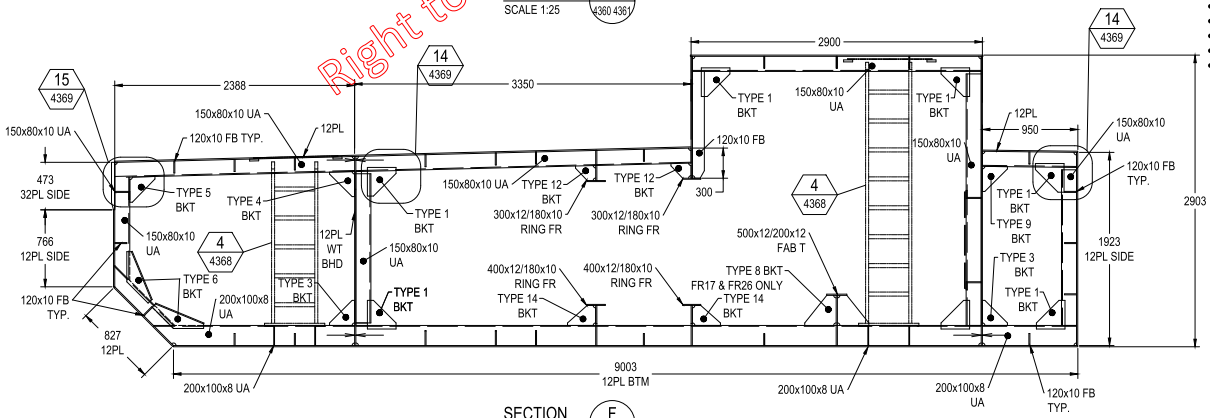
Cardno architectus



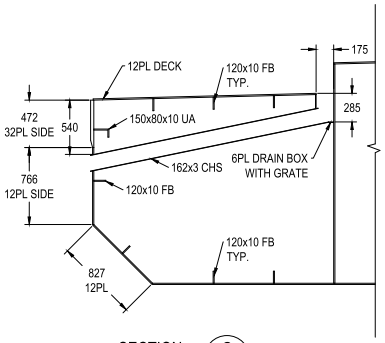
SECTION D (4360 4361)
SCALE 1:25



SECTION E (4360 4361)
SCALE 1:25



SECTION F (4360 4361)
SCALE 1:25



SECTION G (4361 4363)
SCALE 1:25

NOTES

1. CONSTRUCTION SHALL BE TO THE SATISFACTION OF THE ATTENDING SURVEYOR.
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    - 4363: HULL PROFILES SHEET 2
    - 4364: HULL SECTIONS SHEET 1
    - 4366: HULL DETAILS SHEET 1
    - 4367: HULL DETAILS SHEET 2
    - 4368: HULL DETAILS SHEET 3
    - 4369: BRACKET DETAILS
    - 4370: HATCH DETAILS
    - 4371: AL WELD SCHEDULE

LEGEND

STIFFENER TERMINATING	
GIRDER TERMINATING	
SEAM MARK TRANSVERSE	
SEAM MARK PROFILE	
STIFFENER SNIPE	
FACEBAR/RIDER SNIPE	
REVISION INDICATOR	
TURNING FRAME	
END FIXETY BRACKET	B
STIFFENER SNIPE	S

0 500 1000 1500 2000 2500
SCALE 1:25 @ A1

Revisions/Descriptions	Certification	Date	Microfiled
4 ISSUED FOR TENDER		14-08-20	
3 PRELIMINARY DESIGN RE-ISSUE		19-12-19	
2 PRELIMINARY DESIGN ISSUE		08-11-19	
1 ISSUED FOR INTERNAL REVIEW		25-10-19	

Associated Job Nos
Auxiliary Drg Nos
Survey Data: Datum, Horiz. Grid, Height Origin, Survey Books
Scales
Dimensions shown in millimetres except where shown otherwise

SOUTHERN MORETON BAY
SOUTHERN MORETON BAY ISLANDS
KARRAGARRA ISLAND

FERRY TERMINALS DESIGN

Drawn H.
Checked O.D.S
Designed N.E.B
Design Review
Date. 14-08-20

MARITIME
PONTOON
HULL SECTIONS SHEET 2

ENGINEERING CERTIFICATION (RPEQ)

ENG. AREA	NAME	SIGNATURE	NO.	DATE

Queensland Government

File No.	467/00408
Contract. No.	CN-12653
Drawing No.	4365 | 4
Project No.	TMR29-130
MRM_Detail (05/14)	BN-70-1

ISSUE FOR TENDER

Cardno architectus

LEGEND

STIFFENER TERMINATING	
GIRDER TERMINATING	
SEAM MARK TRANSVERSE	
SEAM MARK PROFILE	
STIFFENER SNIPE	
FACEBAR/RIDER SNIPE	
REVISION INDICATOR	
TURNING FRAME	
END FIXETY BRACKET	B
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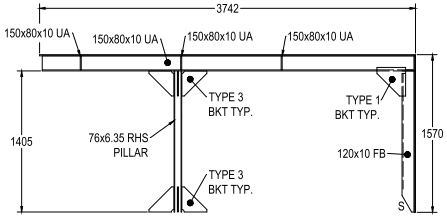
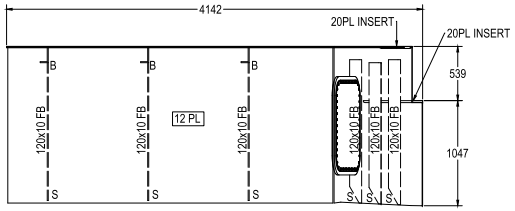
    - 4365: HULL SECTIONS SHEET 2
    - 4367: HULL DETAILS SHEET 2
    - 4368: HULL DETAILS SHEET 3
    - 4369: BRACKET DETAILS
    - 4370: HATCH DETAILS
    - 4371: AL WELD SCHEDULE



SECTION 4 (4366)
SCALE 1:25



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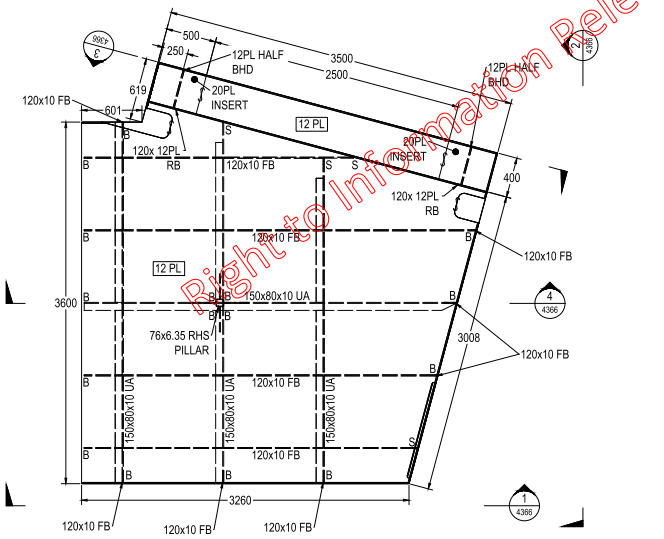
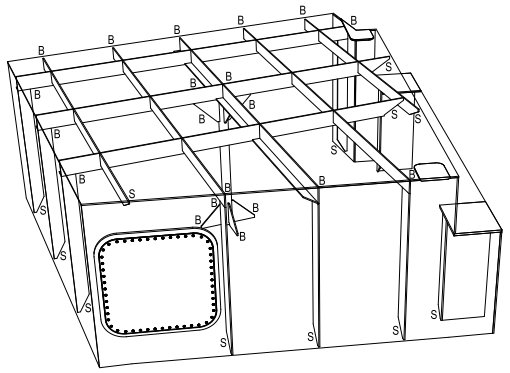
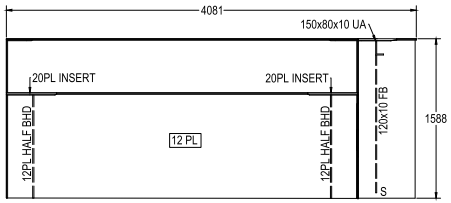
SCALE 1:25



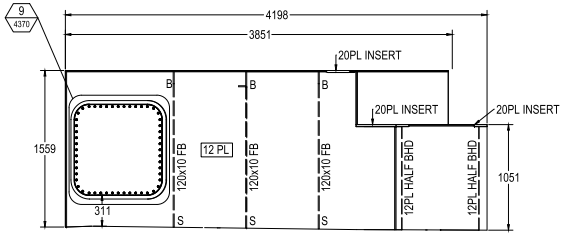
DETAIL 1 (4362 4363)
SCALE 1:25



KARRAGARRA PONTOON GANGWAY LANDING
SCALE NTS



SECTION 3 (4366)
SCALE 1:25



SECTION 2 (4366)
SCALE 1:25

0 500 1000 1500 2000 2500
SCALE 1:25 @ A1

4	ISSUED FOR TENDER		14-08-20	
3	PRELIMINARY DESIGN RE-ISSUE		19-12-19	
2	PRELIMINARY DESIGN ISSUE		06-12-19	
1	ISSUED FOR INTERNAL REVIEW		08-11-19	
	Revisions/Descriptions	Certification	Date	Microfiled

Associated Job Nos
Auxiliary Drg Nos

Survey Data: Datum, Horiz. Grid, Height Origin, Survey Books

Scales

Dimensions shown in millimetres except where shown otherwise

SOUTHERN MORETON BAY
SOUTHERN MORETON BAY ISLANDS
KARRAGARRA ISLAND

FERRY TERMINALS DESIGN

Drawn S.H
Checked O.D.S
Designed N.E.B
Design Review
Date 14-08-20

MARITIME
PONTOON
HULL DETAILS SHEET 1

ENGINEERING CERTIFICATION (RPEQ)

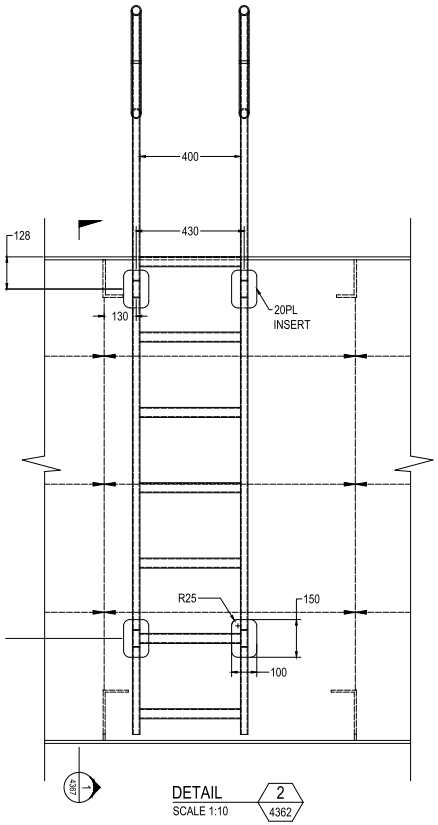
ENG. AREA	NAME	SIGNATURE	NO.	DATE

Queensland Government

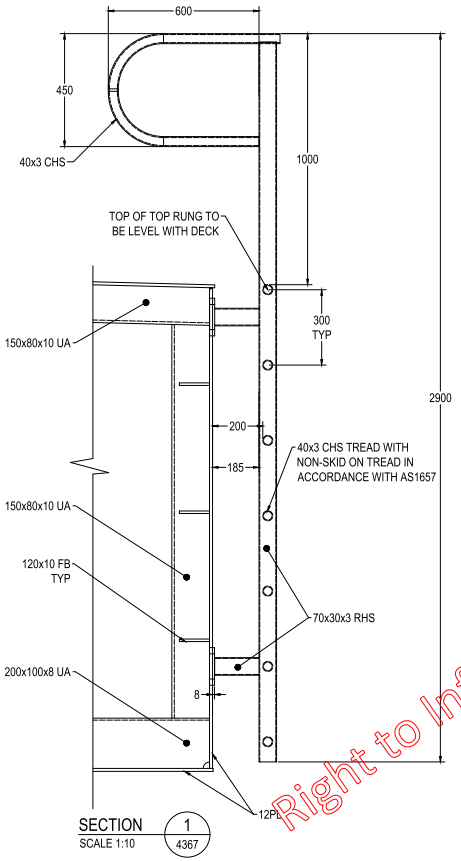
File No.	467/00408
Contract. No.	CN-12653
Drawing No.	4366 4
Project No.	TMR29-130
MRM_Detail (05/14)	BN-70-1

ISSUE FOR TENDER

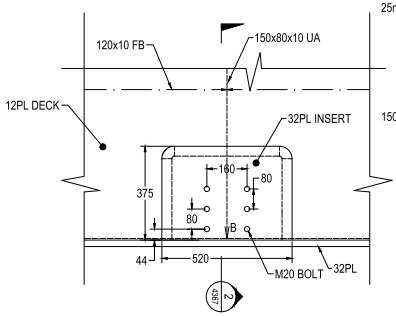
Cardno architectus

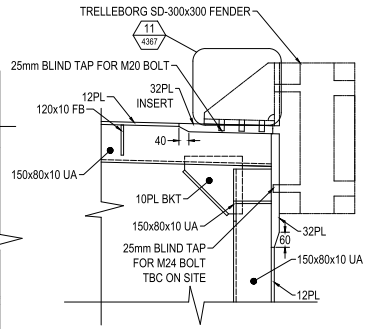


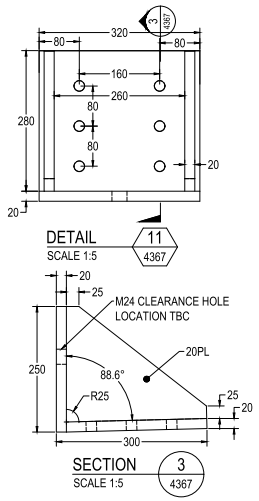
DETAIL 2 (4362) SCALE 1:10

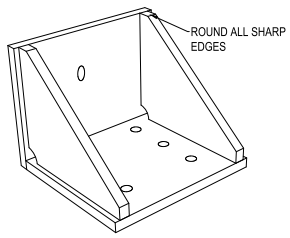


SECTION 1 (4367) SCALE 1:10









LEGEND

STIFFENER TERMINATING	
GIRDER TERMINATING	
SEAM MARK TRANSVERSE	
SEAM MARK PROFILE	
STIFFENER SNIPE	
FACEBAR/RIDER SNIPE	
REVISION INDICATOR	
TURNING FRAME	
END FIXETY BRACKET	B
STIFFENER SNIPE	S

NOTES

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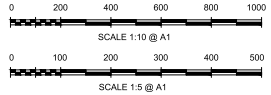
    - 4361: HULL PLANS SHEET 2
    - 4362: HULL PROFILES SHEET 1
    - 4363: HULL PROFILES SHEET 2
    - 4364: HULL SECTIONS SHEET 1
    - 4365: HULL SECTIONS SHEET 2
    - 4366: HULL DETAILS SHEET 1
    - 4368: HULL DETAILS SHEET 3
    - 4369: BRACKET DETAILS
    - 4370: HATCH DETAILS
    - 4371: AL WELD SCHEDULE



4	ISSUED FOR TENDER		14-08-20		
3	PRELIMINARY DESIGN RE-ISSUE		19-12-19		
2	PRELIMINARY DESIGN ISSUE		06-12-19		
1	ISSUED FOR INTERNAL REVIEW		08-11-19		
	Revisions/Descriptions	Certification	Date	Microfiled	

Associated Job Nos

Auxiliary Drg Nos

Survey Data: Datum; Horiz. Grid; Height Origin; Survey Books

Scales

Dimensions shown in millimetres except where shown otherwise

SOUTHERN MORETON BAY
SOUTHERN MORETON BAY ISLANDS
KARRAGARRA ISLAND

FERRY TERMINALS DESIGN

Drawn	N.E.B
Checked	O.D.S
Designed	N.E.B
Design Review	
Date.	14-08-20

MARITIME
PONTOON
HULL DETAILS SHEET 2

ENGINEERING CERTIFICATION (RPEQ)

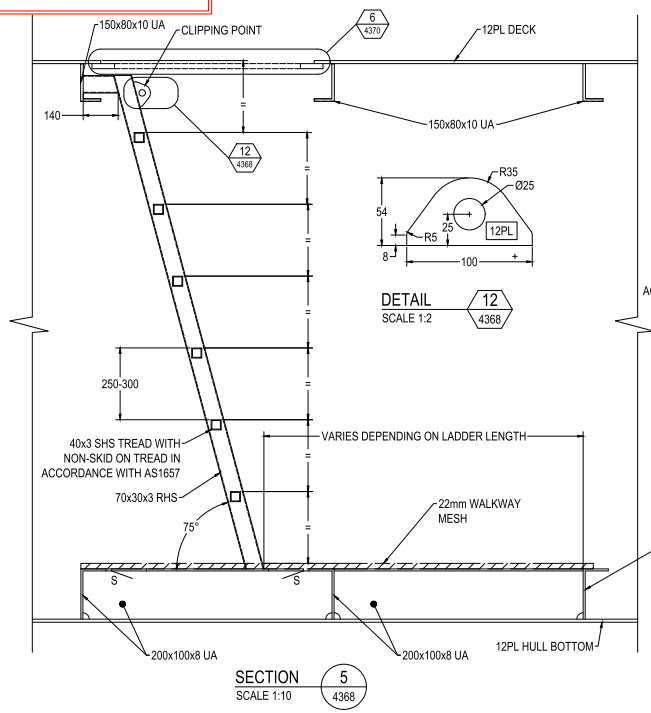
ENG. AREA	NAME	SIGNATURE	NO.	DATE

Queensland Government

File No.	467/00408
Contract. No.	CN-12653
Drawing No.	4367 | 4
Project No.	TMR29-130
MRM_Detail (05/14)	BN-70-1

ISSUE FOR TENDER

Cardno architectus



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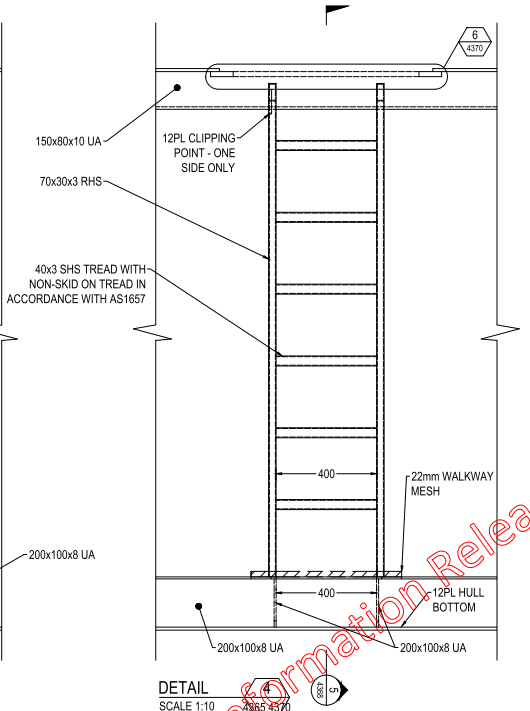
SCALE 1:2

SECTION 5 4368
SCALE 1:10



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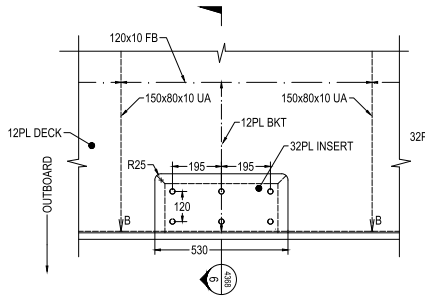

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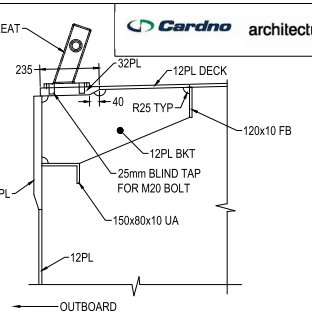

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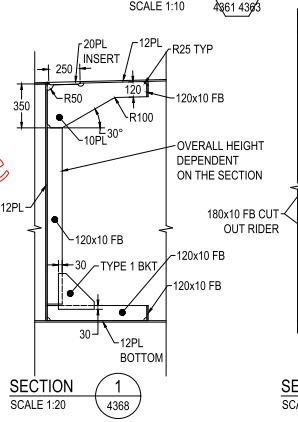
SCALE 1:10



SECTION 1 4368
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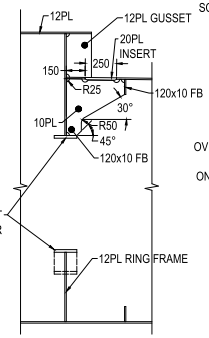

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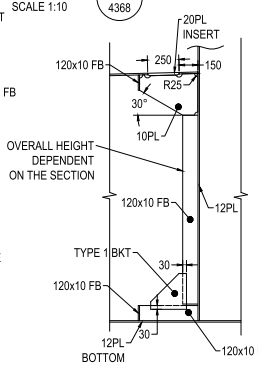
SCALE 1:20



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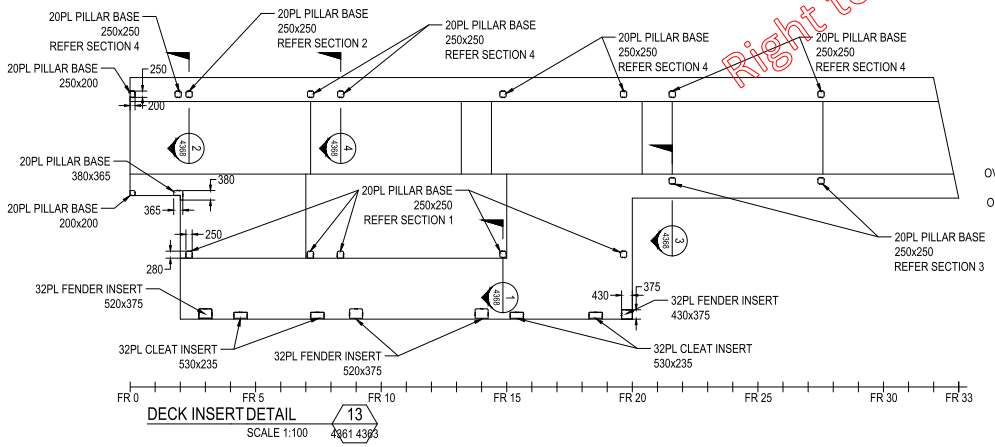
SCALE 1:20



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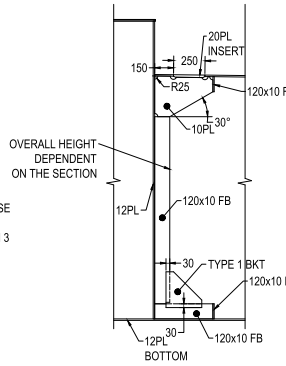

SECTION 4 4368
SCALE 1:20

NOTES

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    - 4369: BRACKET DETAILS
    - 4370: HATCH DETAILS
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LEGEND

STIFFENER TERMINATING	
GIRDER TERMINATING	
SEAM MARK TRANSVERSE	A
SEAM MARK PROFILE	
STIFFENER SNIPE	
FACEBAR/RIDER SNIPE	
REVISION INDICATOR	△
TURNING FRAME	⌀
END FIXETY BRACKET	B
STIFFENER SNIPE	S

0 2000 4000 6000 8000 10000
SCALE 1:100 @ A1

0 400 800 1200 1600 2000
SCALE 1:20 @ A1

0 200 400 600 800 1000
SCALE 1:10 @ A1

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	Revisions/Descriptions	Certification	Date	Microfiled

Associated Job Nos

Auxiliary Drg Nos

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SOUTHERN MORETON BAY
SOUTHERN MORETON BAY ISLANDS
KARRAGARRA ISLAND

FERRY TERMINALS DESIGN

Drawn	N.E.B
Checked	O.D.S
Designed	N.E.B
Design Review	
Date.	14-08-20

MARITIME
PONTOON
HULL DETAILS SHEET 3

ENGINEERING CERTIFICATION (RPEQ)

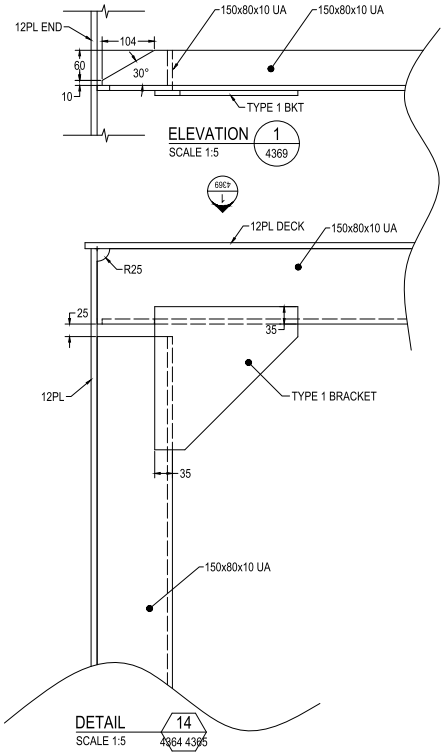
ENG. AREA	NAME	SIGNATURE	NO.	DATE

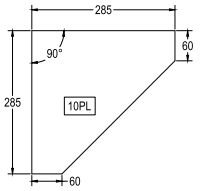
Queensland Government

File No.	467/00408
Contract. No.	CN-12653
Drawing No.	4368 | 4
Project No.	TMR29-130
MRM_Detail (05/14)	BN-70-1

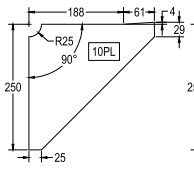
ISSUE FOR TENDER

Cardno architectus





TYPE 1 BRACKET
SCALE 1:5



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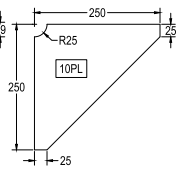

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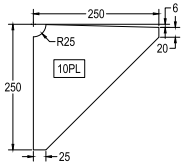

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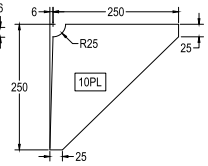

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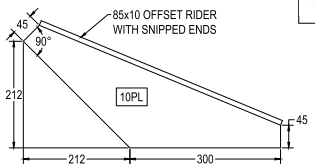

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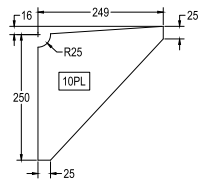
SCALE 1:5



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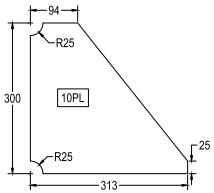

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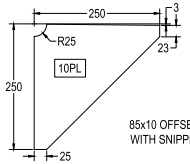

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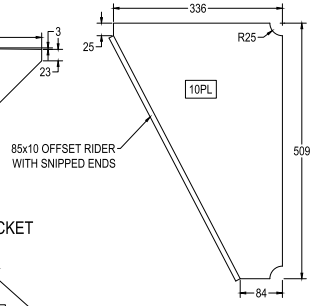
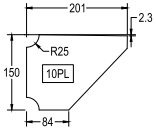
SCALE 1:5



TYPE 10 BRACKET
SCALE 1:5



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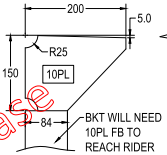
SCALE 1:5



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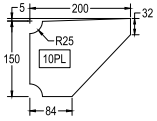

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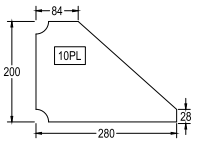

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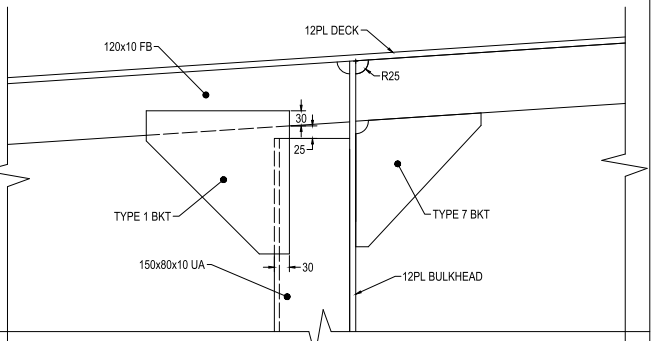
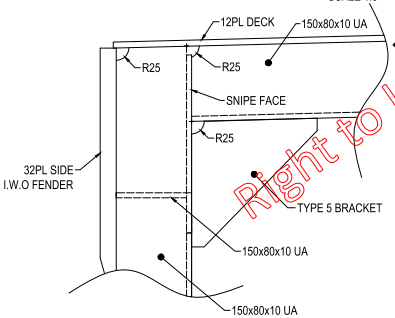
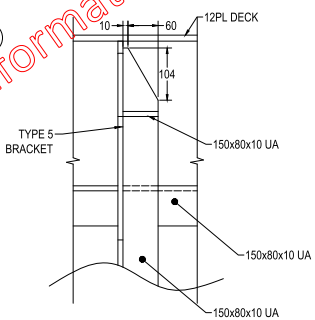
SCALE 1:5



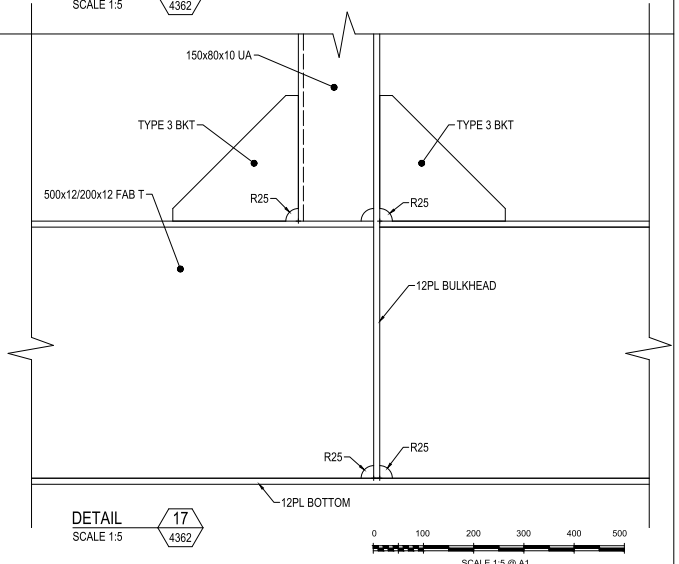
DETAIL 16 SCALE 1:5 4362



DETAIL 15 SCALE 1:5 4365



ELEVATION 2 SCALE 1:5 4369



DETAIL 17 SCALE 1:5 4362

0 100 200 300 400 500
SCALE 1:5 @ A1

NOTES

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LEGEND

STIFFENER TERMINATING	
GIRDER TERMINATING	
SEAM MARK TRANSVERSE	
SEAM MARK PROFILE	
STIFFENER SNIPE	
FACEBAR/RIDER SNIPE	
REVISION INDICATOR	
TURNING FRAME	
END FIXETY BRACKET	B
STIFFENER SNIPE	S

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SOUTHERN MORETON BAY
SOUTHERN MORETON BAY ISLANDS
KARRAGARRA ISLAND

FERRY TERMINALS DESIGN

Drawn	N.E.B
Checked	O.D.S
Designed	S.H
Design Review	
Date	14-08-20

MARITIME
PONTOON
HULL DETAILS SHEET 2

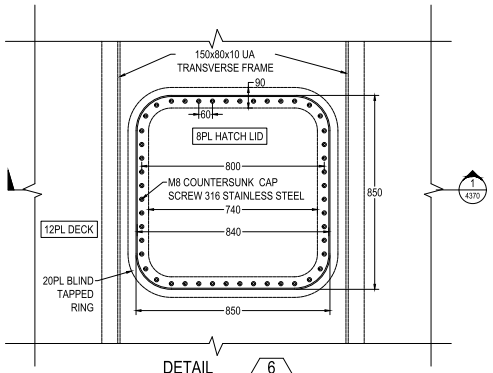
ENGINEERING CERTIFICATION (RPEQ)

ENG. AREA	NAME	SIGNATURE	NO.	DATE

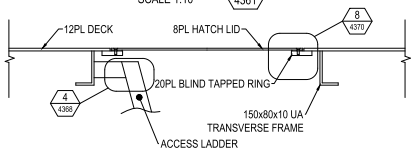
Queensland Government

File No.	467/00408
Contract. No.	CN-12653
Drawing No.	4369 4
Project No.	TMR29-130
MRM_Detail (05/14)	BN-70-1

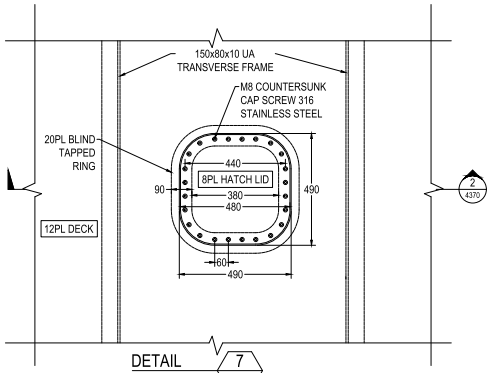
ISSUE FOR TENDER



DETAIL 6 (4361)
SCALE 1:10



SECTION 1 (4370)
SCALE 1:5



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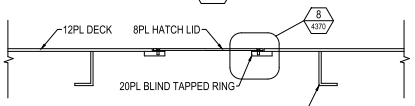

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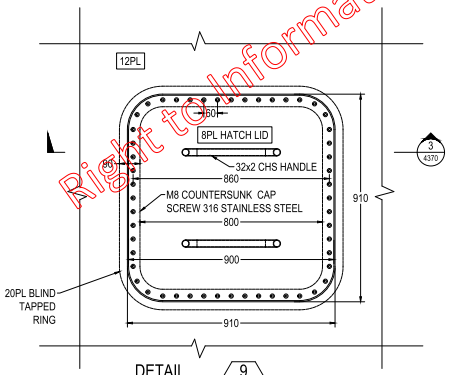
SCALE 1:5



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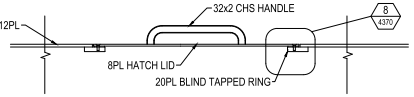
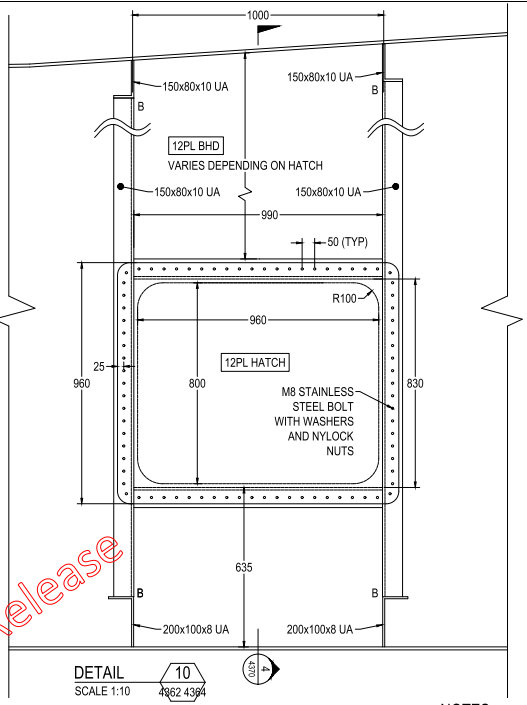
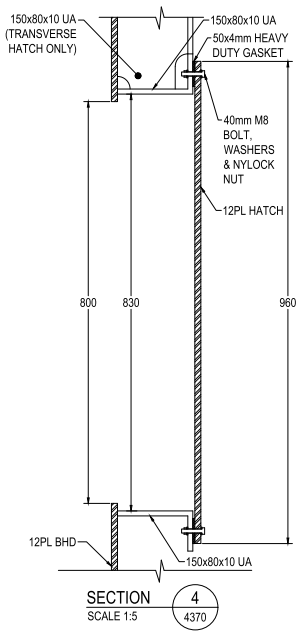
SCALE 1:10



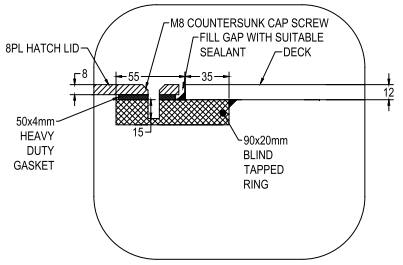
SECTION 3 (4370)
SCALE 1:5



DETAIL 10 (4362 4364)
SCALE 1:10



SECTION 4 (4370)
SCALE 1:5



DETAIL 8 (4370)
SCALE 1:2

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4. ALUMINIUM FILLER WIRE SHALL BE 5183 OR 5356.
5. WELDING SHALL BE IN ACCORDANCE WITH THE APPROVED WELD SCHEDULE & AS1665 FOR QUALITY.
6. DIMENSIONS ARE IN MILLIMETERS U.N.O.
7. ALL BRACKETS TYPE 1 U.N.O.
8. FOR BALLAST TANK AND EXTERNAL HULL COATINGS, PLEASE REFER TO THE SPECIFICATION.
9. FOR CONSTRUCTION DISTORTION LIMITS REFER TO IACS NO.47 FOR GUIDANCE.
10. DRAWING TO BE READ IN CONJUNCTION WITH LATEST REVISION OF:
    - 4360: HULL PLANS SHEET 1
    - 4361: HULL PLANS SHEET 2
    - 4362: HULL PROFILES SHEET 1
    - 4363: HULL PROFILES SHEET 2
    - 4364: HULL SECTIONS SHEET 1
    - 4365: HULL SECTIONS SHEET 2
    - 4366: HULL DETAILS SHEET 1
    - 4367: HULL DETAILS SHEET 2
    - 4368: HULL DETAILS SHEET 3
    - 4369: BRACKET DETAILS
    - 4371: AL WELD SCHEDULE

LEGEND

STIFFENER TERMINATING	
GIRDER TERMINATING	
SEAM MARK TRANSVERSE	
SEAM MARK PROFILE	
STIFFENER SNIPE	
FACEBAR/RIDER SNIPE	
REVISION INDICATOR	
TURNING FRAME	
END FIXETY BRACKET	B
STIFFENER SNIPE	S

0 200 400 600 800 1000
SCALE 1:10 @ A1

0 100 200 300 400 500
SCALE 1:5 @ A1

0 40 80 120 160 200
SCALE 1:2 @ A1

4	ISSUED FOR TENDER		14-08-20	
3	PRELIMINARY DESIGN RE-ISSUE		19-12-19	
2	PRELIMINARY DESIGN ISSUE		06-12-19	
1	ISSUED FOR INTERNAL REVIEW		08-11-19	
	Revisions/Descriptions	Certification	Date	Microfiled

Associated Job Nos
Auxiliary Drg Nos

Survey Data: Datum, Horiz. Grid, Height Origin, Survey Books

Scales

Dimensions shown in millimetres except where shown otherwise

SOUTHERN MORETON BAY
SOUTHERN MORETON BAY ISLANDS
KARRAGARRA ISLAND

FERRY TERMINALS DESIGN

Drawn N.E.B
Checked O.D.S
Designed N.E.B
Design Review
Date. 14-08-20

MARITIME
PONTOON
HATCH DETAILS

ENGINEERING CERTIFICATION (RPEQ)

ENG. AREA	NAME	SIGNATURE	NO.	DATE

Queensland Government

File No.	467/00408
Contract. No.	CN-12653
Drawing No.	4370 | 4
Project No.	TMR29-130
MRM_Detail (05/14)	BN-70-1

ISSUE FOR TENDER

Cardno architectus

Item	T1 (mm)	GR	Member 1	T2 (mm)	GR	Member 2	Weld Type	Nom. Leg Length (mm)	Nom. Throat Thk. (mm)	Nom. Weld Length (mm)	Spacing (ctrs) (mm)	Notes
1	12	5083-H321	12mm Side/End/Bottom/Bhd/Deck Plate	12	5083-H321	12mm Side/End/Bottom/Bhd/Deck Plate	DCF	6.5	4.5	-	-	Shell plate seams & bhds
2	12	5083-H321	12mm Bottom/Bhd/End Plate	12	5083-H321	500x12/200x12 Fab T	SIF	6.5	4.5	75	450 max	Shell & bhd plate to longitudinal CL girder
3	12	5083-H321	Fab T 12mm Web	12	5083-H321	Fab T 12mm Flange	SIF	6.5	4.5	75	450 max	Web to flange connection in Fab T
4	12	5083-H321	12mm End/Bottom/Bhd Plate	12	5083-H321	400x12/180x10 Ring Fr	SIF	6.5	4.5	75	450 max	Shell & bhd plate to longitudinal Ring Fr
5	12	5083-H321	Fab T 12mm Web	10	5083-H321	Fab T 10mm Flange	SIF	6.5	4.5	75	450 max	Web to flange connection in Fab T
6	12	5083-H321	12mm End/Bhd/Deck Plate	12	5083-H321	300x12/180x10 Ring Fr	SIF	6.5	4.5	75	450 max	Shell & bhd plate to longitudinal Ring Fr
7	12	5083-H321	12mm Side/Bottom/Bhd Plate	8	6061-T6	200x100x8 UA	SIF	6.5	4.5	75	450 max	Bottom transverse frames to shell & bhd plate
8	12	5083-H321	12mm Side/End/Bottom/Bhd/Deck Plate	10	5083-H321	120x10 FB	SIF	6.5	4.5	75	450 max	Longitudinal stiffeners to shell & bhd plate
9	12	5083-H321	12mm Side/End/Bhd/Deck Plate	10	6061-T6	150x80x10 UA	SIF	6.5	4.5	75	450 max	Transverse frames to shell & bhd plate
10	32	5083-H321	32mm Side Plate	12	5083-H321	12mm Side/End/Bhd/Deck Plate	DCF	6.5	4.5	-	-	32mm side plate to 12mm shell plate & bhds
11	32	5083-H321	32mm Side Plate	10	6061-T6	150x80x10 UA	SIF	6.5	4.5	75	450 max	Transverse frames to 32mm side plate
12	12	5083-H321	500x12/200x12 Fab T	8	6061-T6	200x100x8 UA	DCF	6.5	4.5	-	-	Termination
13	8	6061-T6	200x100x8 UA	8	6061-T6	200x100x8 UA	DCF	6.5	4.5	-	-	Termination
14	8	6061-T6	200x100x8 UA	10	5083-H321	120x10 FB	DCF	6.5	4.5	-	-	Termination
15	10	6061-T6	150x80x10 UA	10	5083-H321	120x10 FB	DCF	6.5	4.5	-	-	Termination
16	10	6061-T6	150x80x10 UA	12	5083-H321	12PL/180x10 Ring Fr	DCF	6.5	4.5	-	-	Termination
17	8	6061-T6	200x100x8 UA	12	5083-H321	12PL/180x10 Ring Fr	DCF	6.5	4.5	-	-	Termination
18	8	6061-T6	200x100x8 UA	10	5083-H321	10mm Bracket	DCF	6.5	4.5	-	-	Brackets
19	10	6061-T6	150x80x10 UA	10	5083-H321	10mm Bracket	DCF	6.5	4.5	-	-	Brackets
20	10	5083-H321	120x10 FB	10	5083-H321	10mm Bracket	DCF	6.5	4.5	-	-	Brackets
21	12	5083-H321	500x12/200x12 Fab T	10	5083-H321	10mm Bracket	DCF	6.5	4.5	-	-	Brackets
22	12	5083-H321	12mm Bhd Plate	10	5083-H321	10mm Bracket	DCF	6.5	4.5	-	-	Brackets
23	32	5083-H321	32mm Insert	12	5083-H321	12mm Side/End/Bhd/Deck Plate	DCF	6.5	4.5	-	-	32mm insert plate to 12mm shell plate & bhds
24	20	5083-H321	20mm Insert	12	5083-H321	12mm Side/End/Bhd/Deck Plate	DCF	6.5	4.5	-	-	20mm insert plate to 12mm shell plate & bhds

NOTES

1. WELD GUIDANCE IS PROVIDED BY REFERENCING AS4132.2-1993 AND LLOYD'S REGISTER RULES & REGULATIONS FOR THE CLASSIFICATION OF SPECIAL SERVICE CRAFT.
2. WELD SCHEDULE CONSIDERS STRUCTURALLY EFFECTIVE HULL ITEMS ONLY.
3. WELD STYLE ABBREVIATIONS: 'DCF' = DOUBLE CONTINUOUS FILLET; 'SIF' = STAGGERED INTERMITTENT FILLET; 'CIF' = CHAIN INTERMITTENT FILLET; 'SCF' = SINGLE CONTINUOUS FILLET; 'SLOT' = SLOT WELD.
4. ALL WELDERS TO BE CERTIFIED TO SATISFY AUSTRALIAN STANDARD REQUIREMENTS.
5. WELDING TECHNIQUES, MATERIALS AND METHODS SHALL BE TO AUSTRALIAN STANDARDS INCLUDING AS1665-2004 AND AS4132.2-1993.
6. WELDING SHALL BE TO THE SATISFACTION OF THE ATTENDING SURVEYOR.
7. CONTINUOUS WELDS SHALL BE EFFECTED AT ALL STIFFENER TERMINATIONS, BRACKETS, JOINS, INSERTS, BOLLARDS AND WATERTIGHT SEAMS.
8. AREAS OF HIGH STRESS ARE TO BE DOUBLE CONTINUOUS FILLET WELDED.
9. CHAIN INTERMITTENT FILLET WELDS ARE TO BE USED IF THERE IS INSUFFICIENT SPACE FOR STAGGERED INTERMITTENT FILLET WELDS.
10. THE PREPARATION OF PLATE IS TO BE ACCURATE AND UNIFORM. ALL JOINTS ARE TO BE PROPERLY ALIGNED AND CLOSED OR ADJUSTED BEFORE WELDING. EXCESSIVE FORCE IS NOT TO BE USED IN FAIRING AND CLOSING THE WORK. MEANS ARE TO BE PROVIDED FOR HOLDING THE WORK IN PROPER ALIGNMENT WITHOUT RIGID RESTRAINT DURING WELDING OPERATIONS.
11. THE SURFACES OF ALL PARTS TO BE WELDED ARE TO BE CLEAN. DRY AND FREE OF GREASE,OXIDE CUTTING FLUID OR OTHER CONTAMINANTS.
12. TACK WELDING SHOULD BE KEPT TO A MINIMUM AND WHERE USED SHOULD BE EQUAL IN QUALITY TO THE FINISHING WELDS. ALL DEFECTIVE TACKS ARE TO BE REMOVED BEFORE PLACEMENT OF FINAL WELDS.
13. THE SURFACES AND BOUNDARIES OF EACH RUN OF DEPOSIT ARE TO BE CLEANED THOROUGHLY AND FREED FROM SLAG BEFORE THE NEXT RUN IS APPLIED. BEFORE A MANUAL SEALING RUN IS PLACED TO THE BACK OF A WELD, THE ORIGINAL ROOT RUN IS TO BE CUT BACK TO SOUND METAL.
14. ALL FINISHED WELDS ARE TO BE SOUND, UNIFORM AND SUBSTANTIALLY FREE FROM SLAG INCLUSION, POROSITY, UNDERCUTTING OR OTHER DEFECTS. CARE IS TO BE TAKEN TO ENSURE ADEQUATE PENETRATION AND FUSION.
15. ALL PREPARATIONS ARE TO BE UNIFORM AND ACCURATE, PROPERLY ALIGNED AND CLOSED OR ADJUSTED BEFORE WELDING.
16. N.D.T. TO BE CARRIED OUT TO THE SURVEYOR'S SATISFACTION.
17. WHEN WELDING DIFFERENT ALLOY GRADES, ENSURE THE PROPER APPROVED FILLER RODS AND PROCEDURES ARE USED.
18. WHERE STIFFENING MEMBERS ARE ATTACHED BY CONTINUOUS FILLET WELDS AND CROSS COMPLETELY FINISHED BUTT OR SEAM WELDS, THESE WELDS ARE TO BE MADE FLUSH I.W.O THE FAYING SURFACE. SIMILARLY FOR BUT WELDS IN WEBS OF STIFFENING MEMBERS THESE ARE TO BE COMPLETED AND MADE FLUSH BEFORE THE FILLET WELD IS MADE. ENDS OF SUCH FLUSH PORTIONS ARE TO BE RUN OUT SMOOTHLY WITHOUT NOTCHES OR SUDDEN CHANGES OF SECTION. ALTERNATIVELY SCALLOPS MAY BE MADE TO FACILITATE THE WELD.
19. THE LENGTH OF DOUBLE CONTINUOUS FILLET WELDING IN WAY OF PRIMARY & SECONDARY MEMBER END CONNECTIONS TO PLATING IS NOT TO BE LESS THAN THE GREATER OF THE FOLLOWING:
    a. THE WEB DEPTH OF THE SMALLER STIFFENING MEMBER EXTENDING EITHER SIDE OF A STIFFENER CROSSING (WELD LENGTH IS REQUIRED ON BOTH SIDES OF THE CROSSING MEMBERS);
    b. TWICE THE HEIGHT OF THE STIFFENING MEMBER EXTENDING FROM EITHER END OF THE STIFFENER IF THE STIFFENER IS SNIPED;
    c. THE HEIGHT OF THE STIFFENING MEMBER PLUS THE LEG LENGTH OF THE ATTACHED BRACKET IF THE STIFFENER IS BRACKETED; OR
    d. 0.1 x STIFFENER SPAN.
11. DCF WELDING OF FLANGE TO WEB OF FAB T GIRDER MUST BE FOR A MINIMUM DISTANCE AS PER NOTE 10(c): L = a + h.
12. FOR CONSTRUCTION DISTORTION LIMITS REFER TO IACS NO.47 FOR GUIDANCE.
13. DRAWING TO BE READ IN CONJUNCTION WITH LATEST REVISION OF:
    - 1360: HULL PLANS SHEET 1
    - 1361: HULL PLANS SHEET 2
    - 1362: HULL PROFILES SHEET 1
    - 1363: HULL PROFILES SHEET 2
    - 1364: HULL SECTIONS SHEET 1
    - 1365: HULL SECTIONS SHEET 2
    - 1366: HULL DETAILS SHEET 1
    - 1367: HULL DETAILS SHEET 2
    - 1368: HULL DETAILS SHEET 3
    - 1369: BRACKET DETAILS
    - 1370: HATCH DETAILS

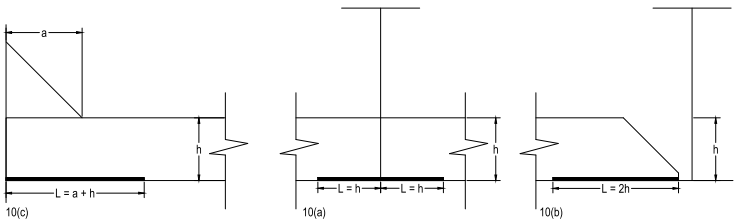
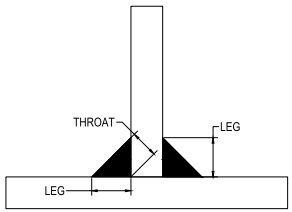
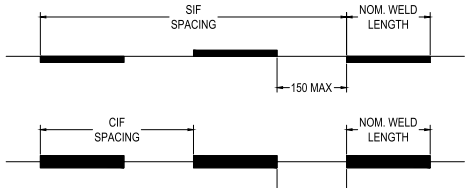


DIAGRAM FOR NOTE 10
h = SECONDARY MEMBER DEPTH
a = BRACKET ARM LENGTH
L = REQUIRED DEPTH OF DOUBLE CONTINUOUS WELD. IN NO CASE IS L TO BE LESS THAN 0.1 x STIFFENER SPAN





4	ISSUED FOR TENDER		14-08-20		
3	PRELIMINARY DESIGN RE-ISSUE		19-12-19		
2	PRELIMINARY DESIGN ISSUE		06-12-19		
1	ISSUED FOR INTERNAL REVIEW		08-11-19		
	Revisions/Descriptions	Certification	Date	Microfiled	

Associated Job Nos
Auxiliary Drg Nos

Survey Data: Datum, Horiz. Grid, Height Origin, Survey Books

Scales
Dimensions shown in millimetres except where shown otherwise

SOUTHERN MORETON BAY
SOUTHERN MORETON BAY ISLANDS
KARRAGARRA ISLAND

FERRY TERMINALS DESIGN

Drawn	N.E.B
Checked	O.D.S
Designed	N.E.B
Design Review	
Date	14-08-20

MARITIME
PONTOON
WELD SCHEDULE

ENGINEERING CERTIFICATION (RPEQ)

ENG. AREA	NAME	SIGNATURE	NO.	DATE

Queensland Government

File No.	467/00408
Contract. No.	CN-12653
Drawing No.	4371 | 4
Project No.	TMR29-130
MRM_Detail (05/14)	BN-70-1

ISSUE FOR TENDER

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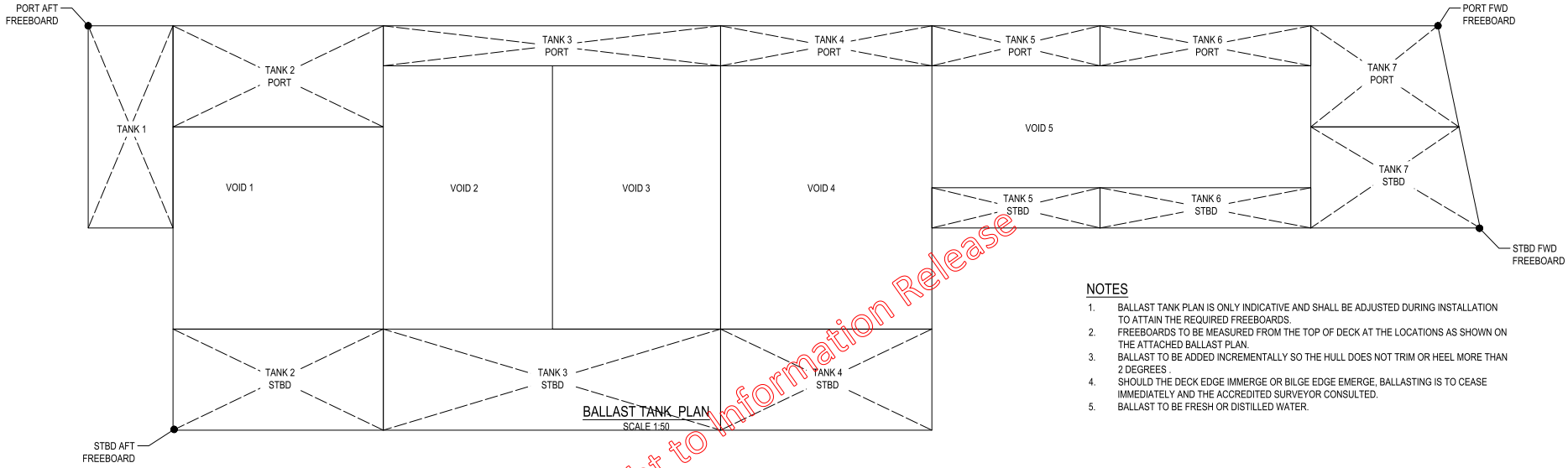

BALLAST TANK PLAN
SCALE 1:50

NOTES

1. BALLAST TANK PLAN IS ONLY INDICATIVE AND SHALL BE ADJUSTED DURING INSTALLATION TO ATTAIN THE REQUIRED FREEBOARDS.
2. FREEBOARDS TO BE MEASURED FROM THE TOP OF DECK AT THE LOCATIONS AS SHOWN ON THE ATTACHED BALLAST PLAN.
3. BALLAST TO BE ADDED INCREMENTALLY SO THE HULL DOES NOT TRIM OR HEEL MORE THAN 2 DEGREES .
4. SHOULD THE DECK EDGE IMMERGE OR BILGE EDGE EMERGE, BALLASTING IS TO CEASE IMMEDIATELY AND THE ACCREDITED SURVEYOR CONSULTED.
5. BALLAST TO BE FRESH OR DISTILLED WATER.

LOCATION	FREEBOARD (mm)
PORT AFT	1200
STBD AFT	1100
PORT FWD	1200
STBD FWD	1220

TANK	% FULL	SOUNDING (mm)	QUANTITY (m^3)
TANK 1	95	2180	19.6
TANK 2 PORT	83	1830	20.8
TANK 2 STBD	95	1790	19.3
TANK 3 PORT	0	0	0
TANK 3 STBD	45	885	14.8
TANK 4 PORT	0	0	0
TANK 4 STBD	0	0	0
TANK 5 PORT	0	0	0
TANK 5 STBD	30	595	2.2
TANK 6 PORT	0	0	0
TANK 6 STBD	95	1880	8.5
TANK 7 PORT	88	1730	12.9
TANK 7 STBD	95	1880	16.1

4	ISSUED FOR TENDER		14-08-20	
	Revisions/Descriptions	Certification	Date	Microfiled

Associated Job Nos

Auxiliary Drg Nos

Survey Data: Datum; Horiz. Grid; Height Origin; Survey Books

Scales

Dimensions shown in millimetres except where shown otherwise

SOUTHERN MORETON BAY
SOUTHERN MORETON BAY ISLANDS
KARRAGARRA ISLAND

FERRY TERMINALS DESIGN

Drawn	N.E.B
Checked	O.D.S
Designed	N.E.B
Design Review	
Date	14-08-20

MARITIME
PONTOON
BALLAST PLAN

ENGINEERING CERTIFICATION (RPEQ)

ENG. AREA	NAME	SIGNATURE	NO.	DATE

Queensland Government

File No.	467/00408
Contract. No.	CN-12653
Drawing No.	4372 | 4
Project No.	TMR29-130
MRM_Detail (05/14)	BN-70-1

ISSUE FOR TENDER

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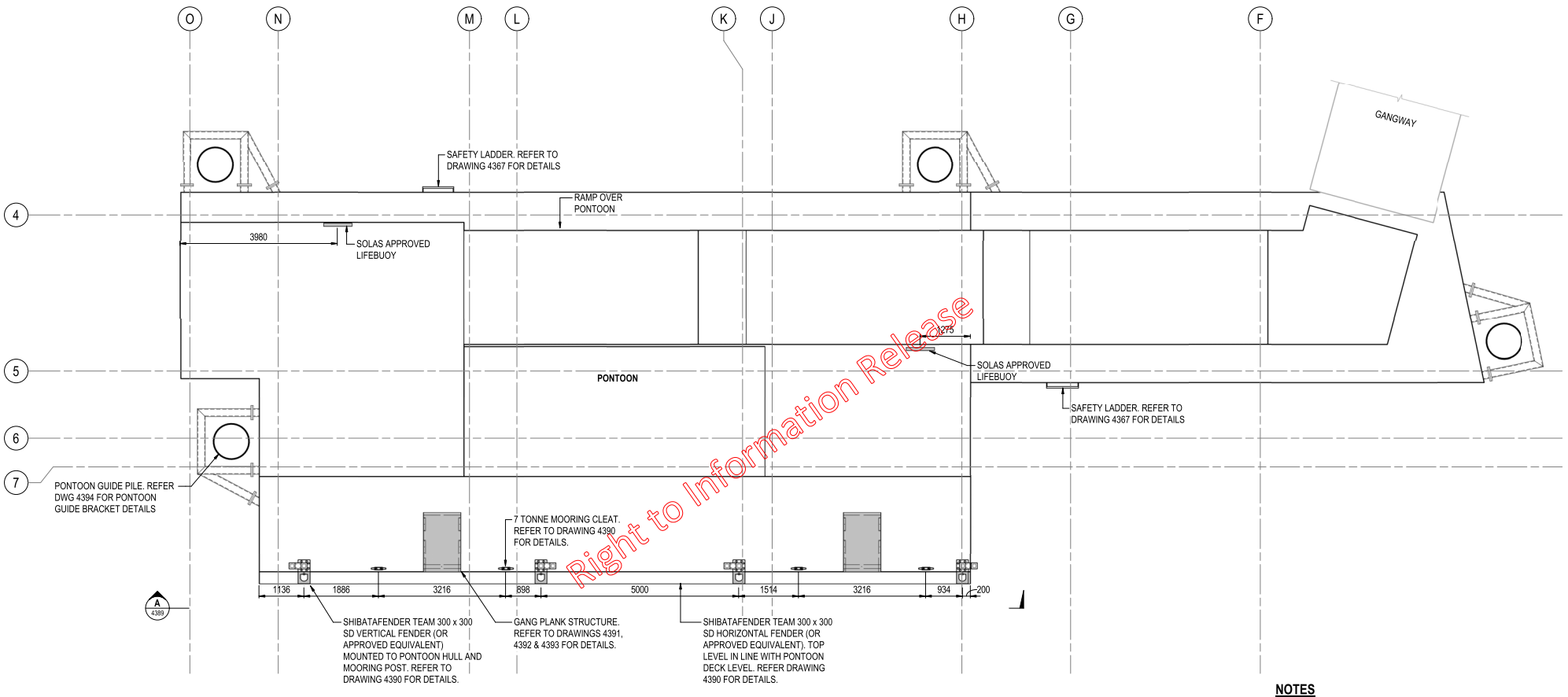


FURNITURE PLAN
SCALE 1 : 50

NOTES

1. VERTICAL FENDERS TO ALIGN WITH TRANVERSE FRAMES OF PONTOON HULL.
2. FENDERS TO BE INSTALLED IN ACCORDANCE WITH MANUFACTURER SPECIFICATIONS.
3. LIFEBUOY TO BE FITTED WITH BUOYANT LIFELINE THAT IS NON-KINKING, WITH DIAMETER GREATER THAN 8mm AND LENGTH GREATER THAN 30m.
4. LIFEBUOY TO BE CONTAINED IN TAMPER PROOF BOX, WHICH IS MOUNTED ON THE WALL/HANDRAIL. TAMPER PROOF BOX AND MOUNTING METHOD TO BE NOMINATED BY CONTRACTOR.

0 1000 2000 3000 4000 5000
SCALE 1:50

	Revisions/Descriptions	Certification	Date	Microfiled
7	REVISED ISSUE FOR TENDER		31-08-20	
6	ISSUED FOR TENDER		18-08-20	
5	DETAILED DESIGN ISSUE		23-07-20	
4	DETAILED DESIGN ISSUE		13-07-20	
3	PRELIMINARY DESIGN RE-ISSUE		17-01-20	
2	PRELIMINARY DESIGN ISSUE		08-11-19	
1	ISSUED FOR INTERNAL REVIEW - QS		25-10-19	

CAD FILES | BIM 360://7905-29 SMBI Ferry Terminal Designs/46700408 – SMBI – Karragarra Island – PM – Jetty and Gangway.rvt

Last Modified: - 31/08/2020 6:02:31 PM

Associated Job Nos

Auxiliary Drg Nos

Survey Data	
Datum	GDA94
Horiz. Grid	MGA Z56
Height Origin	AHD
Survey Books	

Scales

Dimensions shown in millimetres except where shown otherwise

SOUTHERN MORETON BAY
SOUTHERN MORETON BAY ISLANDS
KARRAGARRA ISLAND

FERRY TERMINALS DESIGN

Drawn	GW
Checked	EC
Designed	LB
Design Review	MN
Date	31-08-2020

MARITIME
PONTOON
FURNITURE PLAN - MARITIME

ENGINEERING CERTIFICATION (RPEQ)

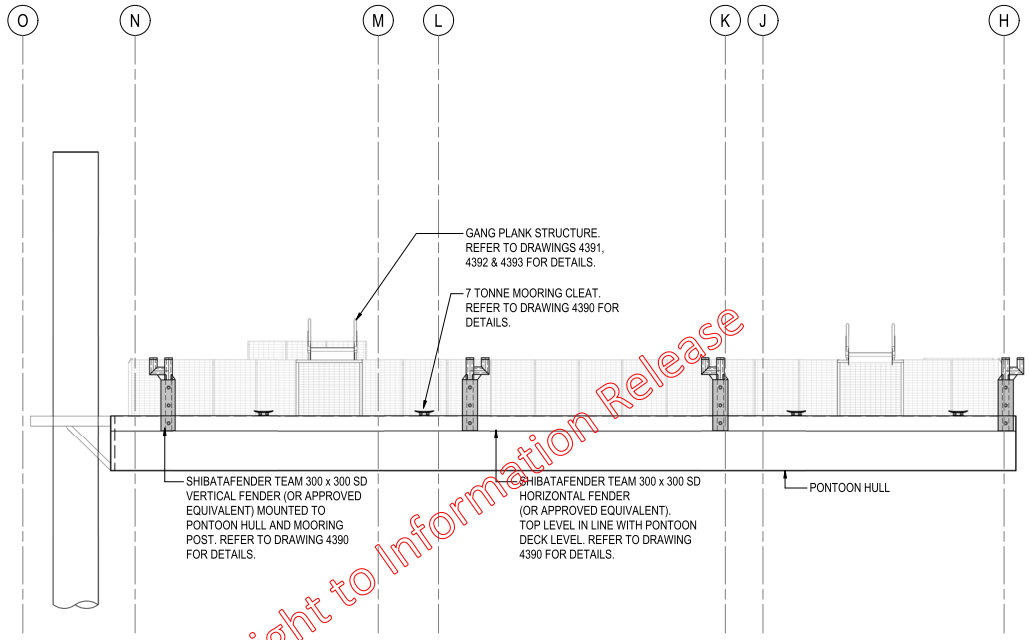
ENG. AREA	NAME	SIGNATURE	NO.	DATE

Queensland Government

File No.	467/00408
Contract. No.	CN-12653
Drawing No.	4388 | 7
Project No.	TMR29-130
MRM_Detail (05/14)	BN-70-1

ISSUE FOR TENDER

Cardno architectus



SECTION A
SCALE 1 : 50
4388

0 1000 2000 3000 4000 5000
SCALE 1:50

2	REVISED ISSUE FOR TENDER		31-08-20	
1	ISSUED FOR TENDER		18-08-20	
	Revisions/Descriptions	Certification	Date	Microfiled

CAD FILES: BIM 360://7905-29 SMBI Ferry Terminal Designs/46700408 – SMBI – Karragarra Island – PM – Jetty and Gangway.rvt

Last Modified :- 31/08/2020 6:02:39 PM

Associated Job Nos

Auxiliary Drg Nos

Survey Data
Datum: GDA94
Horiz. Grid: MGA Z56
Height Origin: AHD
Survey Books:

Scales
Dimensions shown in millimetres except where shown otherwise

SOUTHERN MORETON BAY
SOUTHERN MORETON BAY ISLANDS
KARRAGARRA ISLAND

FERRY TERMINALS DESIGN

Drawn: GW
Checked: EC
Designed: LB
Design Review: MN
Date: 31-08-2020

MARITIME
PONTOON
SECTION

ENGINEERING CERTIFICATION (RPEQ)

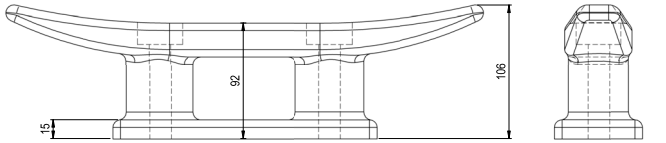
ENG. AREA	NAME	SIGNATURE	NO.	DATE

Queensland Government

File No.	467/00408
Contract. No.	CN-12653
Drawing No.	4389 | 2
Project No.	TMR29-130
MRM_Detail (05/14)	BN-70-1

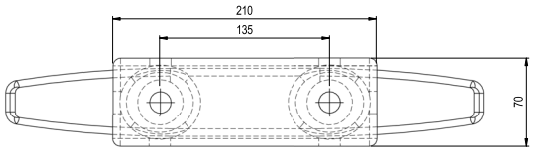
ISSUE FOR TENDER

Cardno architectus

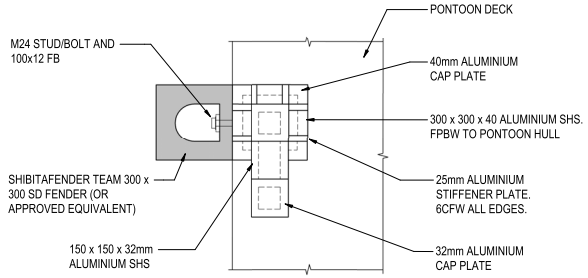


ELEVATION

SIDE ELEVATION



PLAN

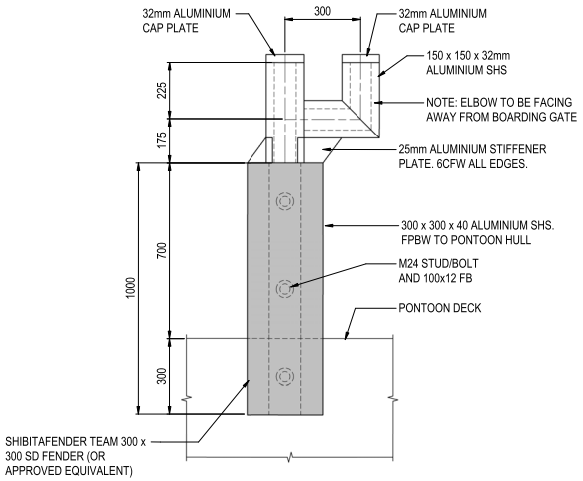


NOTES

1. 7 TONNE MOORING CLEAT TO BE SUPPLIED BY 'SUPERIOR JETTIES' AND MADE FROM GRADE 6061-T6 ALUMINIUM. THREADS TO BE WELDED TO PONTOON HULL OR THREADED INSERTS TO BE PROVIDED.
2. SHS MAY BE CUSTOM MADE USING ALUMINIUM FLAT BARS OF GRADE 5083-H321 OR APPROVED EQUILVANENT.
3. ALL WELDS TO BE FULL PENETRATION BUTT WELDS UNLESS NOTED OTHERWISE.
4. ALL ELEMENTS IN BOLTED CONNECTIONS TO BE ALUMINIUM GRADE 6061-T6 OR APPROVED EQUIVALENT. FENDER DETAILS TO BE CONFIRMED BY MANUFATURER PRIOR TO FABRICATION.
5. ANY BOLTS/STUDS ARE TO BE WELDED OR THREADED TO THE PONTOON HULL OFF SITE.
6. LOCALISED INTERNAL STIFFENING PROVIDED AS PER PONTOON HULL DRAWINGS.

7 TONNE MOORING CLEAT

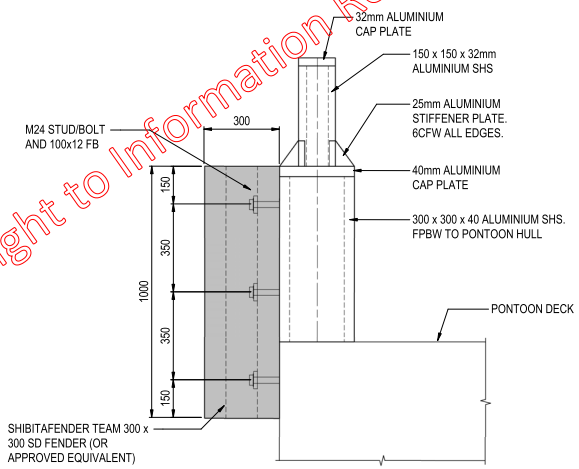
SCALE 1 : 2



TYPICAL VERTICAL FENDER AND MOORING POST PLAN

SCALE 1:10

NOTE: HORIZONTAL FENDER NOT SHOWN FOR CLARITY



TYPICAL VERTICAL FENDER AND MOORING POST FRONT ELEVATION

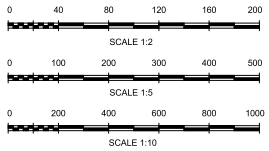
SCALE 1:10

NOTE: HORIZONTAL FENDER NOT SHOWN FOR CLARITY

TYPICAL VERTICAL FENDER AND MOORING POST SIDE ELEVATION

SCALE 1:10

NOTE: HORIZONTAL FENDER NOT SHOWN FOR CLARITY



	Revisions/Descriptions	Certification	Date	Microfiled
5	REVISED ISSUE FOR TENDER		31-08-20	
4	ISSUED FOR TENDER		18-08-20	
3	DETAILED DESIGN ISSUE		23-07-20	
2	PRELIMINARY DESIGN RE-ISSUE		17-01-20	
1	PRELIMINARY DESIGN ISSUE		08-11-19	

CAD FILES | BIM 360://7905-29 SMBI Ferry Terminal Designs/46700408 – SMBI – Karragarra Island – PM – Jetty and Gangway.rvt

Last Modified:- 31/08/2020 4:53:13 PM

Associated Job Nos

Auxiliary Drg Nos

Survey Data: Datum GDA94; Horiz. Grid MGA Z56; Height Origin; Survey Books

Scales

Dimensions shown in millimetres except where shown otherwise

SOUTHERN MORETON BAY
SOUTHERN MORETON BAY ISLANDS
KARRAGARRA ISLAND

FERRY TERMINALS DESIGN

Drawn GW
Checked EC
Designed LB
Design Review MN
Date 31-08-2020

MARITIME
PONTOON
FURNITURE DETAILS

ENGINEERING CERTIFICATION (RPEQ)

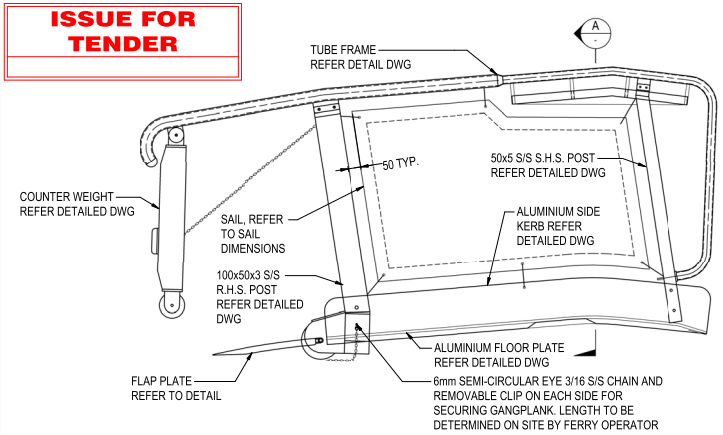
ENG. AREA	NAME	SIGNATURE	NO.	DATE

Queensland Government

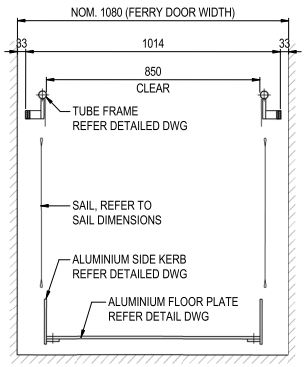
File No.	467/00408
Contract. No.	CN-12653
Drawing No.	4390 5
Project No.	TMR29-130
MRM_Detail (05/14)	BN-70-1

ISSUE FOR TENDER

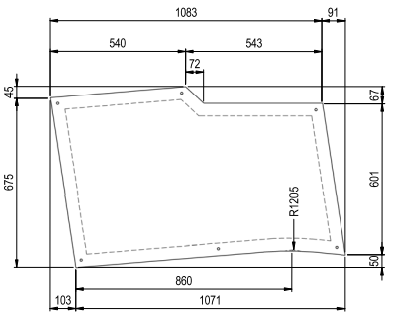
Cardno architectus



GANGPLANK - GENERAL ARRANGEMENT
SCALE 1:10



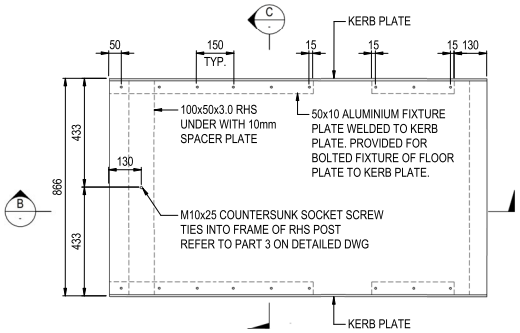
SECTION A
SCALE 1 : 10



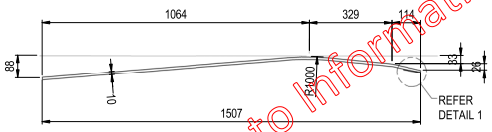
SAIL DIMENSIONS
SCALE 1:10

GANGPLANK NOTES
1. ALL S/S TO BE GRADE 316 ELECTROPOLISHED FINISH U.N.O.
2. FABRICATOR TO TRIAL FIT-UP HANDRAIL TO ENSURE MAX HEIGHT OF TOP RAIL ABOVE RAMP OF 1000mm AS PER AS 1428.1
3. ALL WELDS TO BE 6mm CONTINUOUS FILLET WELD U.N.O.

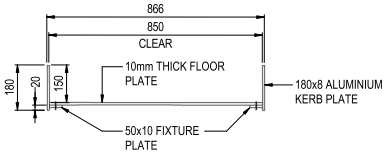
SAIL NOTES
1. SAIL TO BE MADE FROM "COMPLAN" 900 GRAMS PER SQUARE METER + 1 EYE LIG IN EACH CORNER AND 1 EYE LIG IN THE TOP AND BOTTOM SPANS.
2. SAIL TO BE FITTED WITH 2.5mm VB CHORD LASHINGS WITH BURNT ENDS TO PREVENT FRAYING.
3. SAIL DIMENSIONS ARE INDICATIVE. PRECISE SAIL DIMENSIONS SHALL BE BASED ON FABRICATION TEMPLATE DEVELOPED FROM THE FINAL FABRICATION STRUCTURE.



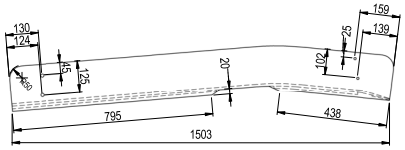
10mm THICK ALUMINIUM FLOOR PLATE PLAN (1 OFF)
SCALE 1:10



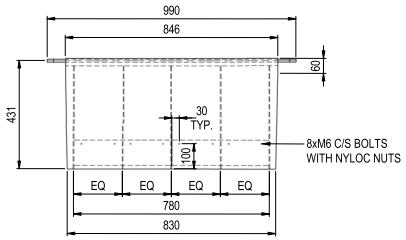
SECTION B
SCALE 1 : 10



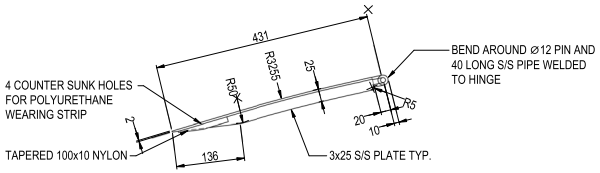
SECTION C
SCALE 1 : 10



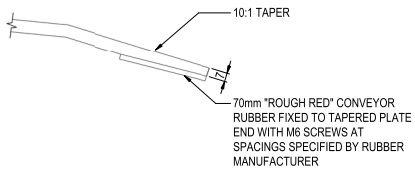
180x8 ALUMINIUM SIDE KERB PLATE ELEVATION (2 OFF - 1 LEFT AND 1 RIGHT)
SCALE 1:10



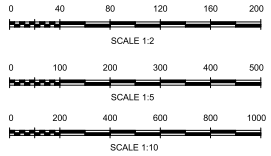
10mm HINGE S/S FLAP PLATE AND 12 DIA S/S PIN
SCALE 1:10



FLAP PLATE DETAIL
SCALE 1 : 5



DETAIL 1
SCALE 1:2



2	REVISED ISSUE FOR TENDER		31-08-20	
1	ISSUED FOR TENDER		18-08-20	
	Revisions/Descriptions	Certification	Date	Microfiled

CAD FILES | BIM 360://7905-29 SMBI Ferry Terminal Designs/46700408 – SMBI – Karragarra Island – PM – Jetty and Gangway.rvt

Last Modified: - 31/08/2020 5:03:22 PM

Associated Job Nos	
Auxiliary Drg Nos	
Survey Data	
Datum	GDA94
Horiz. Grid	MGA Z56
Height Origin	AHD
Survey Books	
Scales	Dimensions shown in millimetres except where shown otherwise

SOUTHERN MORETON BAY
SOUTHERN MORETON BAY ISLANDS
KARRAGARRA ISLAND

FERRY TERMINALS DESIGN

Drawn	GW
Checked	EC
Designed	LB
Design Review	MN
Date	31-08-2020

MARITIME
PONTOON
GANGPLANK DETAILS - SHEET 1

ENGINEERING CERTIFICATION (RPEQ)

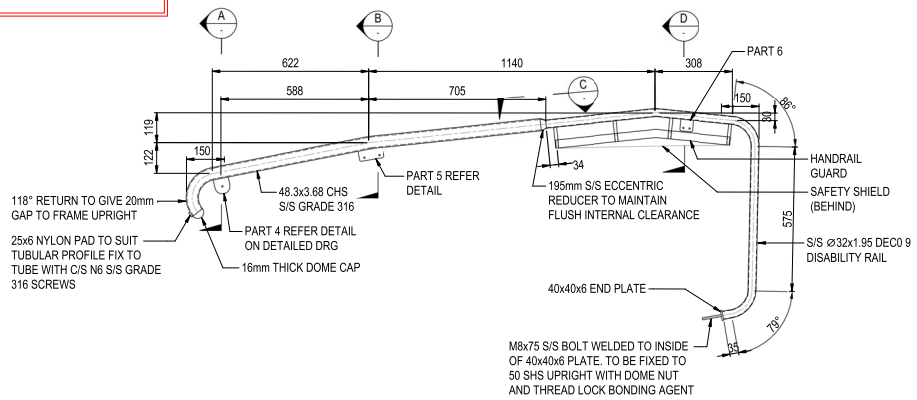
ENG. AREA	NAME	SIGNATURE	NO.	DATE

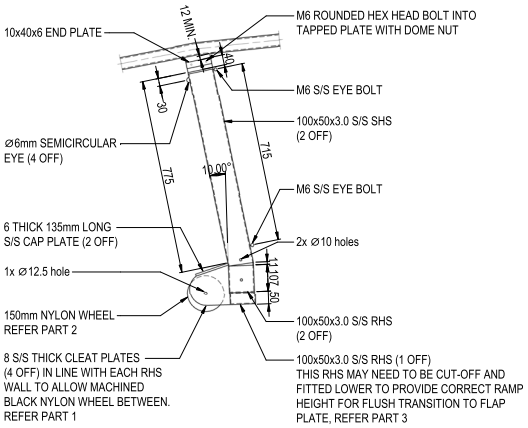
Queensland Government

File No.	467/00408
Contract. No.	CN-12653
Drawing No.	4391 2
Project No.	TMR29-130
MRM_Detail (05/14)	BN-70-1

ISSUE FOR TENDER

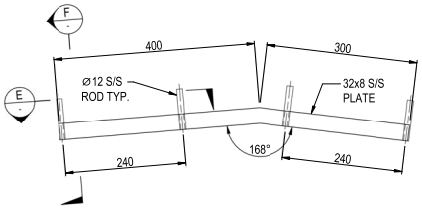
Cardno architectus





GANGPLANK NOTES

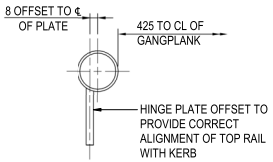
1. ALL S/S TO BE GRADE 316 ELECTROPOLISHED FINISH U.N.O.
2. FABRICATOR TO TRIAL FIT-UP HANDRAIL TO ENSURE MAX HEIGHT OF TOP RAIL ABOVE RAMP OF 1000mm AS PER AS 1428.1
3. ALL WELDS TO BE 6mm CONTINUOUS FILLET WELD U.N.O.



TUBE FRAME S/S GRADE 316 (2 OFF - 1 LEFT AND 1 RIGHT)
SCALE 1:10

100x50x3.0 RHS S/S POST
SCALE 1:10

HANDRAIL GUARD DETAIL
SCALE 1:5



SECTION A
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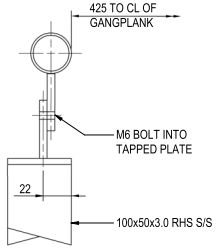

SECTION B
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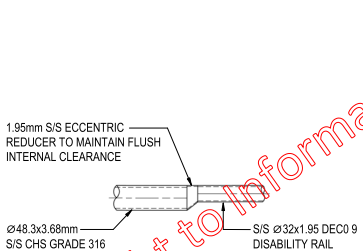
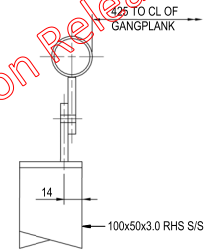


SECTION C
SCALE 1 : 5



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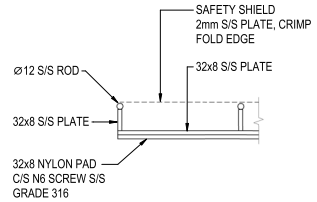

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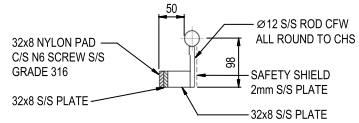

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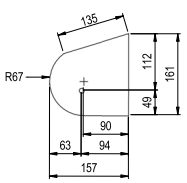
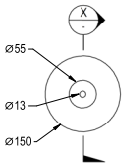
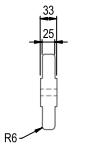


PART 1 (4 OFF)
SCALE 1:5



ELEVATION



SECTION X
SCALE 1 : 5

PART 2 (4 OFF)
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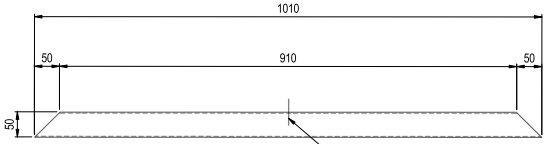

PART 3 (1 OFF)
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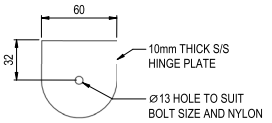
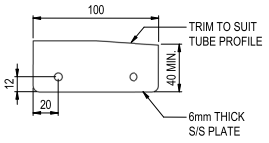
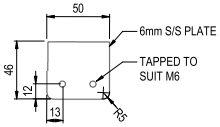


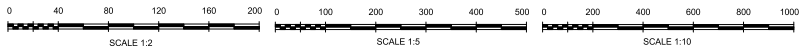
PART 4
SCALE 1:2



PART 5
SCALE 1:2



PART 6
SCALE 1:2



2	REVISED ISSUE FOR TENDER		31-08-20	
1	ISSUED FOR TENDER		18-08-20	
	Revisions/Descriptions	Certification	Date	Microfiled

CAD FILES | BIM 360://7905-29 SMBI Ferry Terminal Designs/46700408 – SMBI – Karragarra Island – PM – Jetty and Gangway.rvt

Last Modified: - 31/08/2020 5:03:39 PM

Associated Job Nos	
Auxiliary Drg Nos	

Survey Data	
Datum	GDA94
Horiz. Grid	MGA Z56
Height Origin	AHD
Survey Books	

Scales

Dimensions shown in millimetres except where shown otherwise

SOUTHERN MORETON BAY
SOUTHERN MORETON BAY ISLANDS
KARRAGARRA ISLAND

FERRY TERMINALS DESIGN

Drawn	GW
Checked	EC
Designed	LB
Design Review	MN
Date	31-08-2020

MARITIME
PONTOON
GANGPLANK DETAILS - SHEET 2

ENGINEERING CERTIFICATION (RPEQ)

ENG. AREA	NAME	SIGNATURE	NO.	DATE

Queensland Government

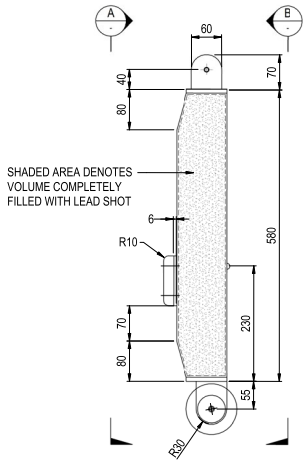
File No.	467/00408
Contract. No.	CN-12653
Drawing No.	4392 2
Project No.	TMR29-130
MRM_Detail (05/14)	BN-70-1

ISSUE FOR TENDER

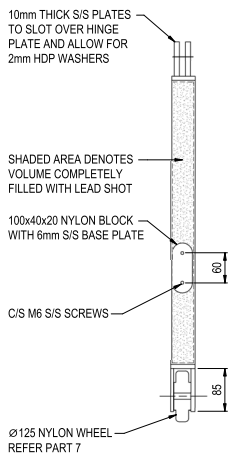
Cardno architectus

GANGPLANK NOTES

1. ALL S/S TO BE GRADE 316 ELECTROPOLISHED FINISH U.N.O.
2. FABRICATOR TO TRIAL FIT-UP HANDRAIL TO ENSURE MAX HEIGHT OF TOP RAIL ABOVE RAMP OF 1000mm AS PER AS 1428.1
3. ALL WELDS TO BE 6mm CONTINUOUS FILLET WELD U.N.O.



100x50x4.0 S/S RHS POST ELEVATION (2 OFF)
SCALE 1:5



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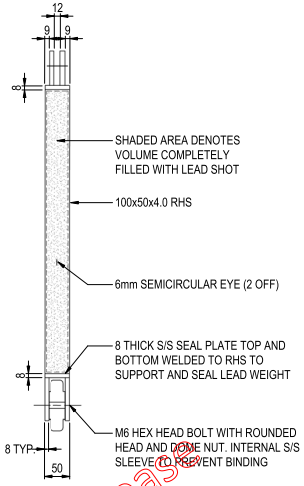

SECTION B
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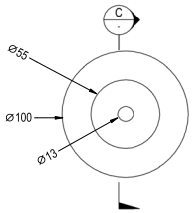
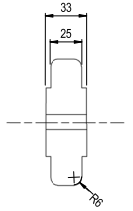
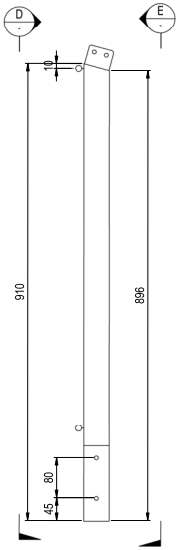


ELEVATION
SCALE 1:2



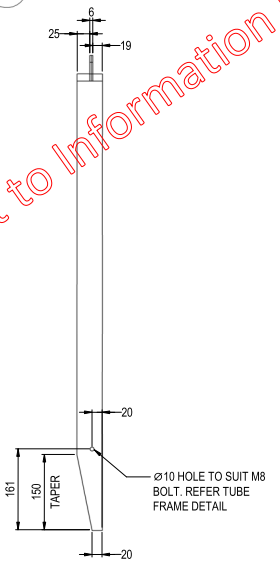
SECTION C
SCALE 1:2

PART 7
SCALE 1:2



50x50x5.0 SHS S/S POST ELEVATION
SCALE 1:5

SECTION D
SCALE 1 : 5



SECTION E
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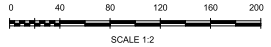


SCALE 1:2

SCALE 1:5

2	REVISED ISSUE FOR TENDER		31-08-20	
1	ISSUED FOR TENDER		18-08-20	
	Revisions/Descriptions	Certification	Date	Microfiled

CAD FILES: BIM 360://7905-29 SMBI Ferry Terminal Designs/46700408 – SMBI – Karragarra Island – PM – Jetty and Gangway.rvt

Last Modified: - 31/08/2020 5:03:47 PM

Associated Job Nos	
Auxiliary Drg Nos	
Survey Data	
Datum	GDA94
Horiz. Grid	MGA Z56
Height Origin	AHD
Survey Books	

Scales

Dimensions shown in millimetres except where shown otherwise

SOUTHERN MORETON BAY
SOUTHERN MORETON BAY ISLANDS
KARRAGARRA ISLAND

FERRY TERMINALS DESIGN

Drawn	GW
Checked	EC
Designed	LB
Design Review	MN
Date	31-08-2020

MARITIME
PONTOON
GANGPLANK DETAILS - SHEET 3

ENGINEERING CERTIFICATION (RPEQ)

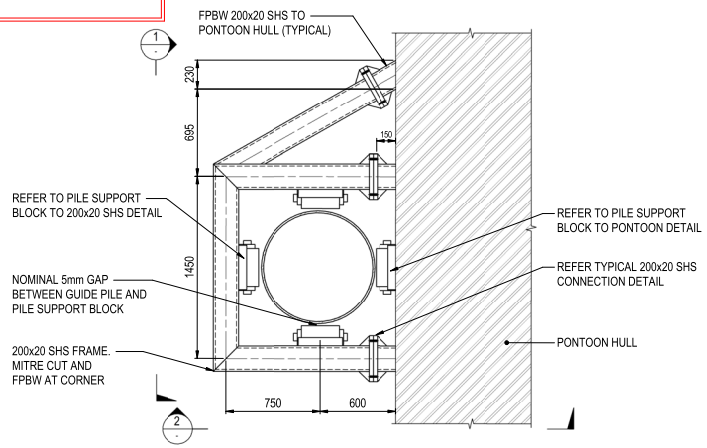
ENG. AREA	NAME	SIGNATURE	NO.	DATE

Queensland Government

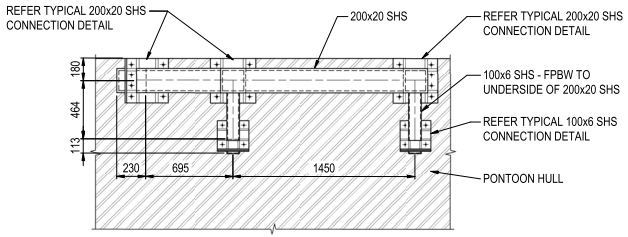
File No.	467/00408
Contract. No.	CN-12653
Drawing No.	4393 2
Project No.	TMR29-130
MRM_Detail (05/14)	BN-70-1

ISSUE FOR TENDER

Cardno architectus



PILE BRACKET DETAIL - PLAN VIEW
SCALE 1:20



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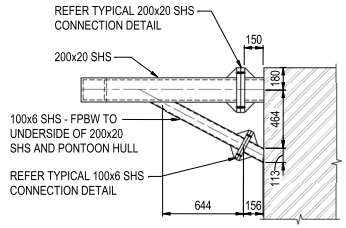
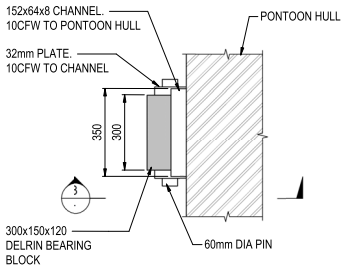
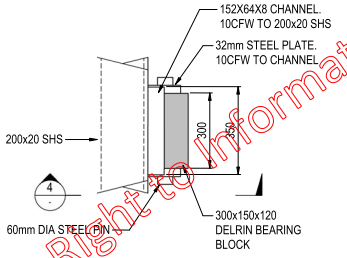
SCALE 1:20



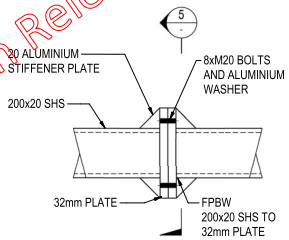
SECTION 2
SCALE 1:20



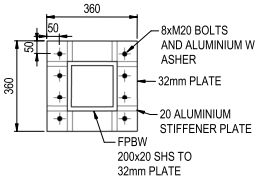
PILE SUPPORT BLOCK TO PONTOON DETAIL
SCALE 1:10



PILE SUPPORT BLOCK TO 200x20 SHS DETAIL
SCALE 1:10

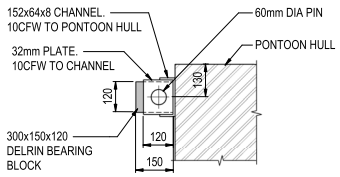


PLAN VIEW

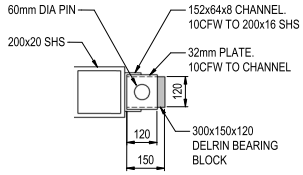


SECTION 5

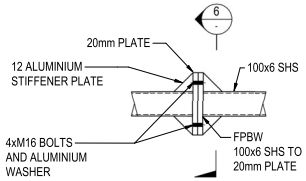
TYPICAL 200x20 SHS CONNECTION DETAIL
SCALE 1:10



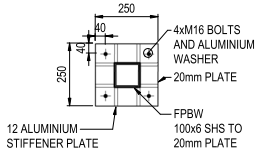
SECTION 3
SCALE 1:10



SECTION 4
SCALE 1:10



PLAN VIEW



SECTION 6

TYPICAL 100x6 SHS CONNECTION DETAIL
SCALE 1:10

PILE BRACKET NOTES

1. 200x16 SHS CROSS BRACE TO BE POSITIONED AS SHOWN ON DRAWING 4388.
2. 200x16 SHS MAY BE FABRICATED FROM ALUMINIUM GRADE 5083-H321 PLATE ELEMENTS.
3. ALL PLATES TO BE ALUMINIUM GRADE 5083-321.
4. PIN AND EXTRUSIONS TO BE ALUMINIUM GRADE 6061-T6.
5. BOLT GRADE 6061-T6. MINIMUM SHEAR STRENGTH 172 MPa, MINIMUM TENSILE STRENGTH 290 MPa.

0 400 800 1200 1600 2000
SCALE 1:20

0 200 400 600 800 1000
SCALE 1:10

2	REVISED ISSUE FOR TENDER		31-08-20	
1	ISSUED FOR TENDER		18-08-20	
	Revisions/Descriptions	Certification	Date	Microfiled

CAD FILES | BIM 360://7905-29 SMBI Ferry Terminal Designs/46700408 – SMBI – Karragarra Island – PM – Jetty and Gangway.rvt

Last Modified :- 31/08/2020 4:53:44 PM

Associated Job Nos	
Auxiliary Drg Nos	
Survey Data	
Datum	GDA94
Horiz. Grid	MGA Z56
Height Origin	AHD
Survey Books	

Scales
Dimensions shown in millimetres except where shown otherwise

SOUTHERN MORETON BAY
SOUTHERN MORETON BAY ISLANDS
KARRAGARRA ISLAND

FERRY TERMINALS DESIGN

Drawn	GW
Checked	EC
Designed	LB
Design Review	MN
Date	31-08-2020

MARITIME
PONTOON
PILE BRACKET DETAILS

ENGINEERING CERTIFICATION (RPEQ)

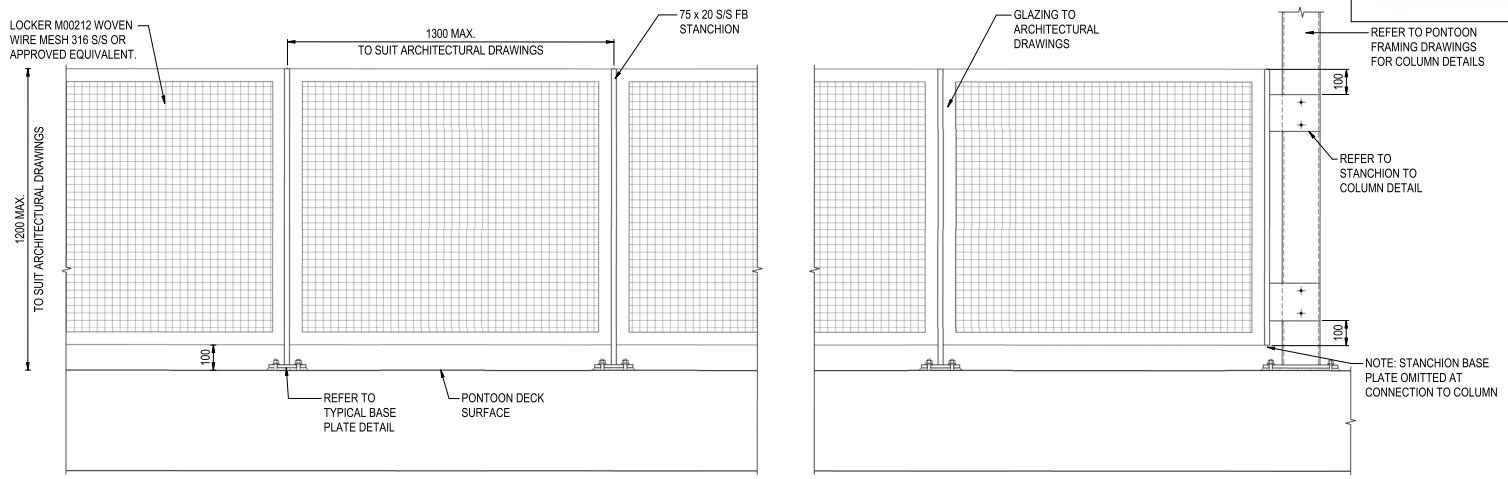
ENG. AREA	NAME	SIGNATURE	NO.	DATE

Queensland Government

File No.	467/00408
Contract. No.	CN-12653
Drawing No.	4394 2
Project No.	TMR29-130
MRM_Detail (05/14)	BN-70-1

ISSUE FOR TENDER

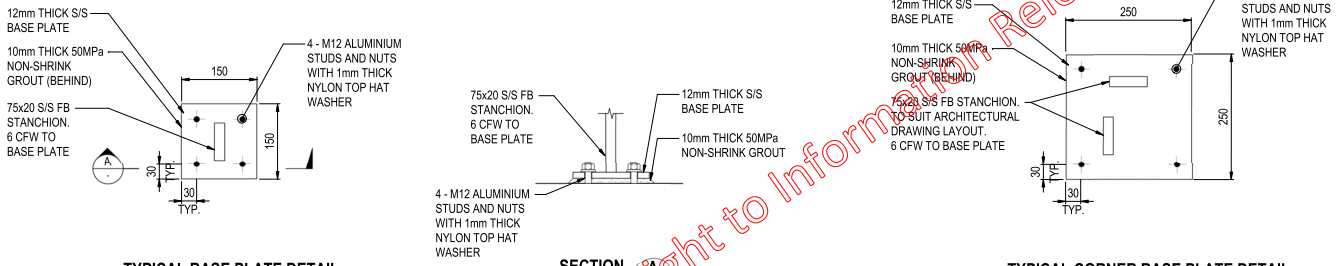
Cardno architectus



TYPICAL PONTOON MESH BALUSTRADE ELEVATION

SCALE 1:10

NOTE: HANDRAIL AND KICKPLATE NOT SHOWN.



TYPICAL BASE PLATE DETAIL

SCALE 1 : 5

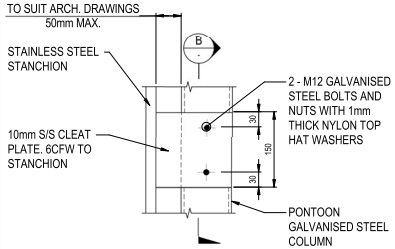
SECTION A

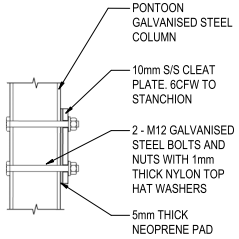
SCALE 1 : 5

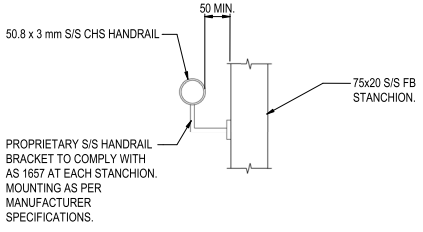
TYPICAL CORNER BASE PLATE DETAIL

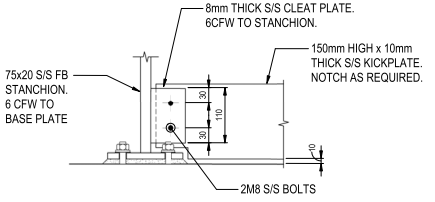
SCALE 1 : 5

NOTE: LARGER CORNER BASE PLATE TO BE USED WHEN THERE WOULD OTHERWISE BE CLASHES USING THE TYPICAL CORNER BASE PLATE.









NOTES:

1. PROVIDE DENSO MULTI-PURPOSE PRIMER GREASE OR APPROVED EQUIVALENT TO ALL SURFACES OF BOLTS AND STUDS AT DISSIMILAR METAL CONNECTIONS.
2. ALUMINIUM STUDS TO BE WELDED TO PONTOON HULL OR PROVIDE THREADED INSERTS.
3. CONTRACTOR TO FORM AROUND NON-SHRINK GROUT AT BASEPLATE WHILE CURING.
4. BALUSTRADE SCREENING ELEMENTS TO BE CONNECTED IN ACCORDANCE WITH MANUFACTURER RECOMMENDATIONS.
5. ALL WELDS SHALL BE FPBW UNO.

0 100 200 300 400 500

SCALE 1:5

0 200 400 600 800 1000

SCALE 1:10

TYPICAL STANCHION TO COLUMN DETAIL

SCALE 1 : 5

SECTION B

SCALE 1 : 5

TYPICAL HANDRAIL TO STANCHION DETAIL (WHERE REQUIRED)

SCALE 1 : 5

NOTE: TOP OF HANDRAIL 900mm FROM DECK LEVEL. REFER TO ARCHITECTURAL DRAWINGS FOR HANDRAIL LOCATIONS.

TYPICAL STANCHION TO KICKPLATE DETAIL (WHERE REQUIRED)

SCALE 1 : 5

NOTE: REFER TO ARCHITECTURAL DRAWINGS FOR KICKPLATE LOCATIONS. WOVEN WIRE MESH AND GLAZING NOT SHOWN.

1	ISSUED FOR TENDER		31-08-20	
	Revisions/Descriptions	Certification	Date	Microfiled

Last Modified: - 31/08/2020 5:03:35 PM

CAD FILES | BIM 360://79O5-29 SMBI Ferry Terminal Designs/46700408 – SMBI – Karragarra Island – PM – Jetty and Gangway.rvt

Associated Job Nos	
Auxiliary Drg Nos	
Survey Data	
Datum	GDA94
Horiz. Grid	MGA Z56
Height Origin	AHD
Survey Books	

Scales

Dimensions shown in millimetres except where shown otherwise

SOUTHERN MORETON BAY
SOUTHERN MORETON BAY ISLANDS
KARRAGARRA ISLAND

FERRY TERMINALS DESIGN

Drawn	GL
Checked	EC
Designed	LB
Design Review	MN
Date	31-08-2020

MARITIME
PONTOON
BALLUSTRADE DETAILS - SHEET 1

ENGINEERING CERTIFICATION (RPEQ)

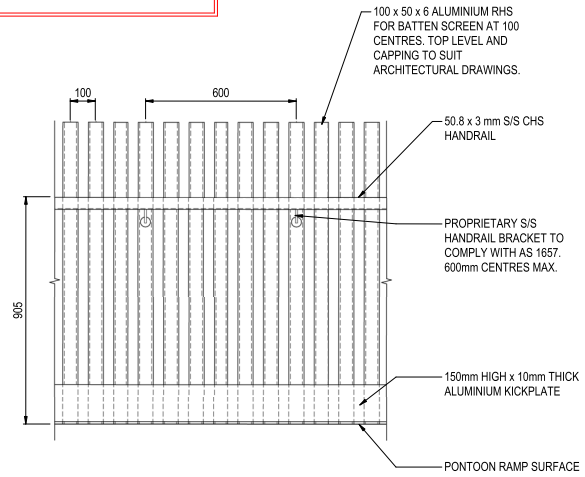
ENG. AREA	NAME	SIGNATURE	NO.	DATE

Queensland Government

File No.	467/00408
Contract. No.	CN-12653
Drawing No.	4396 1
Project No.	TMR29-130
MRM_Detail (05/14)	BN-70-1

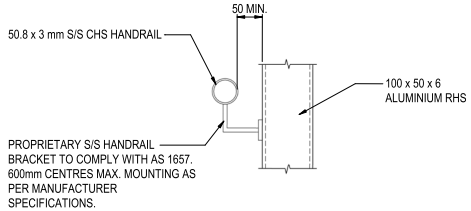
ISSUE FOR TENDER

Cardno architectus



TYPICAL ALUMINIUM BATTEN SCREEN ELEVATION

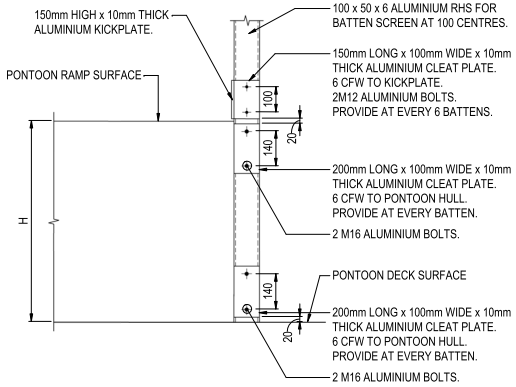
SCALE 1 : 10



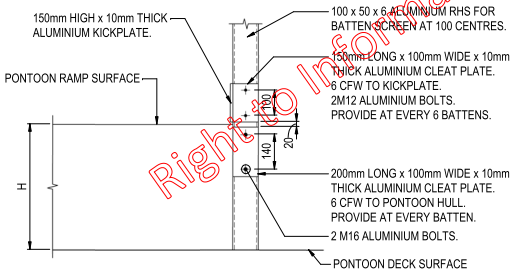
TYPICAL HANDRAIL TO ALUMINIUM BATTEN SCREEN DETAIL

SCALE 1 : 5

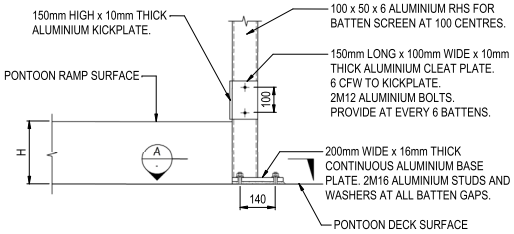
NOTE: TOP OF HANDRAIL 905mm FROM DECK LEVEL. PROVIDE ISOLATION BETWEEN S/S HANDRAIL BRACKET AND ALUMINIUM RHS APPROPRIATE TO MOUNTING METHOD AND AS RECOMENDED BY MANUFACTURER.



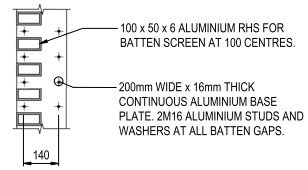
NOTE: USE DETAIL WHEN H > 600



NOTE: USE DETAIL WHEN 250 < H < 600



NOTE: USE DETAIL WHEN H < 250



SECTION A

SCALE 1 : 10

TYPICAL ALUMINIUM BATTEN SCREEN TO PONTOON HULL SECTIONS

SCALE 1 : 10

0 200 400 600 800 1000

SCALE 1:10

1	ISSUED FOR TENDER		31-08-20	
	Revisions/Descriptions	Certification	Date	Microfiled

CAD FILES | BIM 360://7905-29 SMBI Ferry Terminal Designs/46700408 – SMBI – Karragarra Island – PM – Jetty and Gangway.rvt

Last Modified :- 31/08/2020 5:04:05 PM

Associated Job Nos	
Auxiliary Drg Nos	
Survey Data	
Datum	GDA94
Horiz. Grid	MGA Z56
Height Origin	AHD
Survey Books	

Scales

Dimensions shown in millimetres except where shown otherwise

SOUTHERN MORETON BAY
SOUTHERN MORETON BAY ISLANDS
KARRAGARRA ISLAND

FERRY TERMINALS DESIGN

Drawn	GL
Checked	EC
Designed	LB
Design Review	MN
Date	31-08-2020

MARITIME
PONTOON
BALLUSTRADE DETAILS - SHEET 2

ENGINEERING CERTIFICATION (RPEQ)

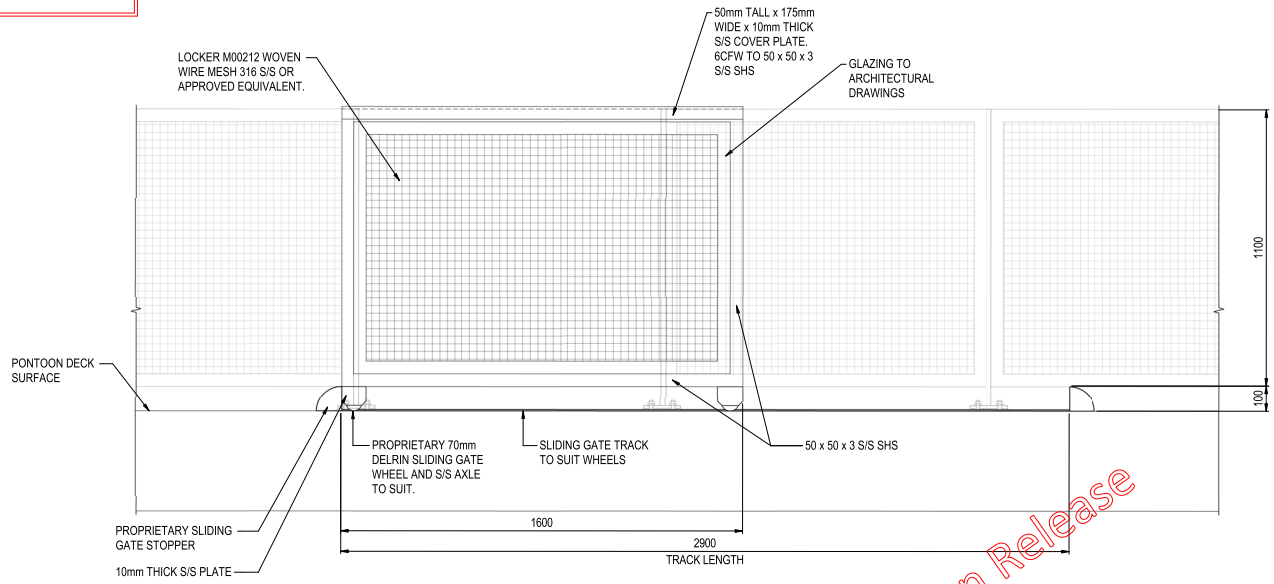
ENG. AREA	NAME	SIGNATURE	NO.	DATE

Queensland Government

File No.	467/00408
Contract. No.	CN-12653
Drawing No.	4397 | 1
Project No.	TMR29-130
MRM_Detail (05/14)	BN-70-1

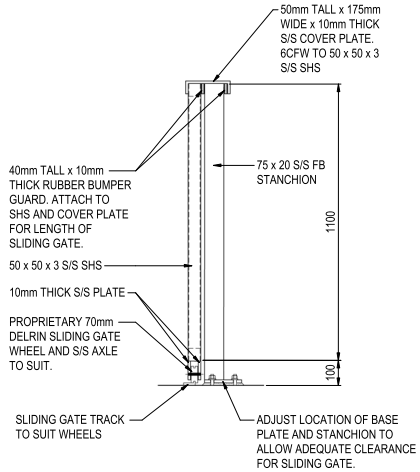
ISSUE FOR TENDER

Cardno architectus



SLIDING GATE ELEVATION

SCALE 1:10



SLIDING GATE SECTION

SCALE 1:10

NOTE: SECTION WHEN SLIDING GATE OVERLAPS WITH STANCHION.

0 200 400 600 800 1000

SCALE 1:10

1	ISSUED FOR TENDER		31-08-20	
	Revisions/Descriptions	Certification	Date	Microfiled

Last Modified :- 31/08/2020 5:04:14 PM

CAD FILES | BIM 360://7905-29 SMBI Ferry Terminal Designs/46700408 – SMBI – Karragarra Island – PM – Jetty and Gangway.rvt

Associated Job Nos	Survey Data	
	Datum	GDA94
Auxiliary Drg Nos	Horiz. Grid	MGA Z56
	Height Origin	AHD
	Survey Books	

Scales

Dimensions shown in millimetres except where shown otherwise

SOUTHERN MORETON BAY
SOUTHERN MORETON BAY ISLANDS
KARRAGARRA ISLAND

FERRY TERMINALS DESIGN

Drawn	GL
Checked	EC
Designed	LB
Design Review	MN
Date	31-08-2020

MARITIME
PONTOON
ALUMINIUM BATTEN SCREEN DETAILS

ENGINEERING CERTIFICATION (RPEQ)

ENG. AREA	NAME	SIGNATURE	NO.	DATE

Queensland Government

File No.	467/00408
Contract. No.	CN-12653
Drawing No.	4398 | 1
Project No.	TMR29-130
MRM_Detail (05/14)	BN-70-1

ISSUE FOR TENDER

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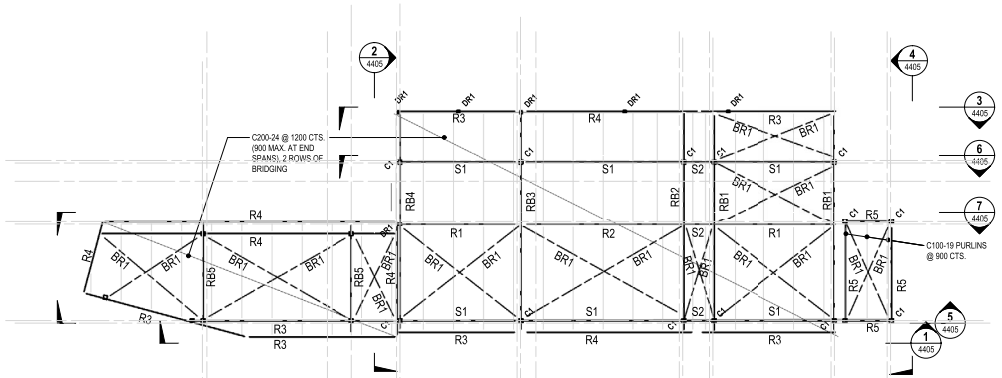
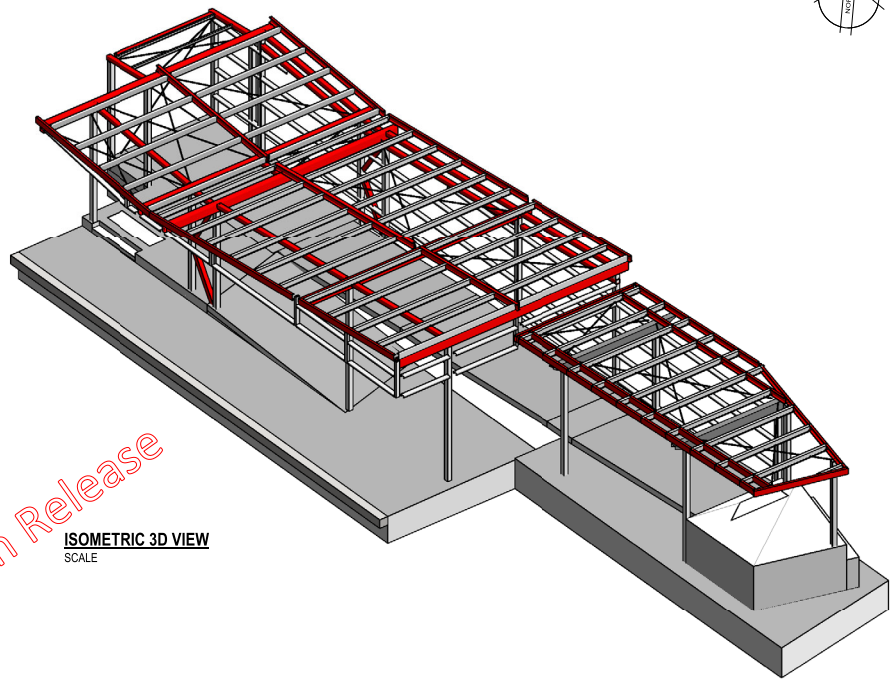


ROOF FRAMING PLAN
SCALE 1 : 100



ISOMETRIC 3D VIEW
SCALE

STRUCTURAL STEEL COLUMN SCHEDULE

MARK	SIZE	REMARKS
C1	150x9.0 SHS	COLUMN
DR1	125x75x6.0 RHS	DROPPER

STRUCTURAL MEMBER SCHEDULE

MARK	SIZE	REMARKS
BR1	20 Ø M.S. ROD	ROOF BRACE
R1	200UB18	RAFTER
R2	200UB25	RAFTER
R3	200PFC	RAFTER
R4	200PFC	RAFTER
R5	150x150x6.0SHS	RAFTER
RB1	300x200x8.0 RHS	ROOF BEAM
RB2	300x200x8.0 RHS	ROOF BEAM
RB3	300x200x8.0 RHS	ROOF BEAM
RB4	300x200x8.0 RHS	ROOF BEAM
RB5	300X200X8.0 RHS	ROOF BEAM
S1	150x150x6.0SHS	STRUT
S2	150x150x6.0SHS	STRUT
WB1	150x150x10EA	WALL BRACE
WB2	20 Ø M.S. ROD	WALL BRACE
WH1	150x150x9.0SHS	HEADER BEAM
WH2	150x150x5.0SHS	HEADER BEAM

NOTE:

STEEL MEMBERS SHALL BE HOT DIP GALVANISED. THE GALVANISED SURFACE SHALL BE SWEEP BLAST TO CREATE A SURFACE PROFILE OF BETWEEN 50-75 MICRONS. FINISH SURFACE WITH AN INTERZONE 954 HIGH SOLIDS, EPOXY ANTI-CORROSIVE SCHEME APPLIED IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATION (OR APPROVED EQUIVALENT)

0 2000 4000 6000 8000 10000
SCALE 1:100

4	ISSUED FOR TENDER		18-08-20	
3	PRELIMINARY DESIGN RE-ISSUE		17-01-20	
2	PRELIMINARY DESIGN ISSUE		08-11-19	
1	ISSUED FOR INTERNAL REVIEW - QS		25-10-19	
	Revisions/Descriptions	Certification	Date	Microfiled

CAD FILES: BIM 360://7905-29 SMBI Ferry Terminal Designs/46700408-SMBI-Karragarra Island-S-Pontoon.rvt

Last Modified :- 18/08/2020 5:20:34 PM

Associated Job Nos
Auxiliary Drg Nos

Survey Data
Datum: GDA94
Horiz. Grid: MGA Z56
Height Origin: AHD
Survey Books:

Scales
Dimensions shown in millimetres except where shown otherwise

SOUTHERN MORETON BAY
SOUTHERN MORETON BAY ISLANDS
KARRAGARRA ISLAND

FERRY TERMINALS DESIGN

Drawn: H.G.
Checked: P.S.
Designed: C.M.
Design Review: P.S.
Date: 18-08-20

MARITIME
PONTOON
ROOF FRAMING & PURLIN PLAN

ENGINEERING CERTIFICATION (RPEQ)

ENG. AREA	NAME	SIGNATURE	NO.	DATE

Queensland Government

File No. 467/00408
Contract. No. CN-12653
Drawing No. 4400 | 4
Project No. TMR29-130
MRM_Detail (05/14) | BN-70-1

ISSUE FOR TENDER

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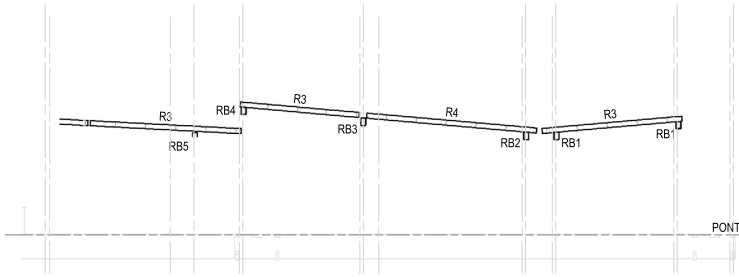

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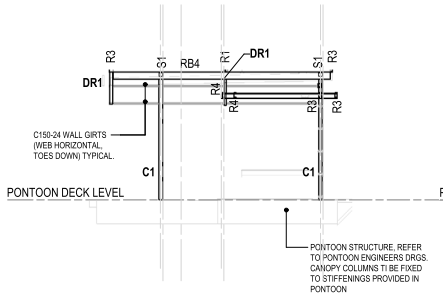

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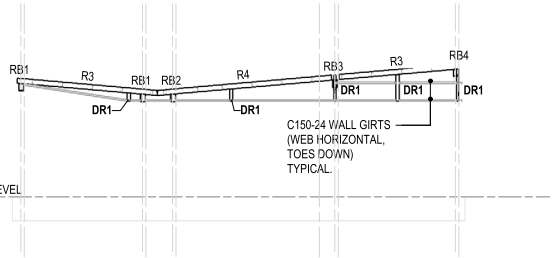

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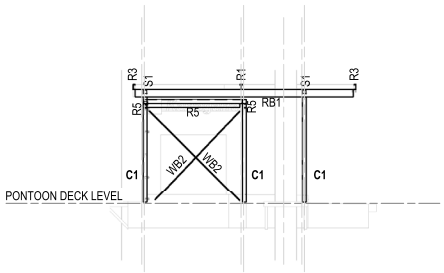

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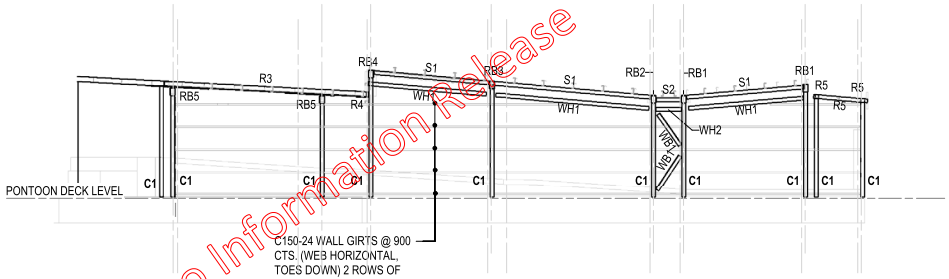

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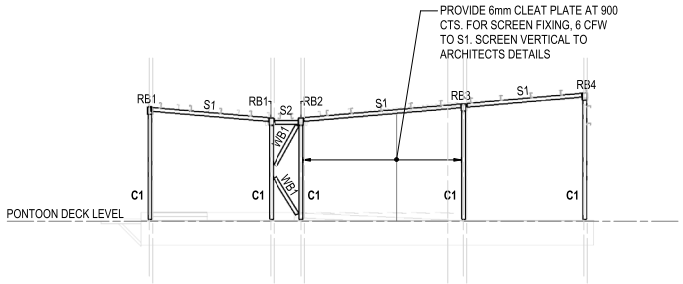

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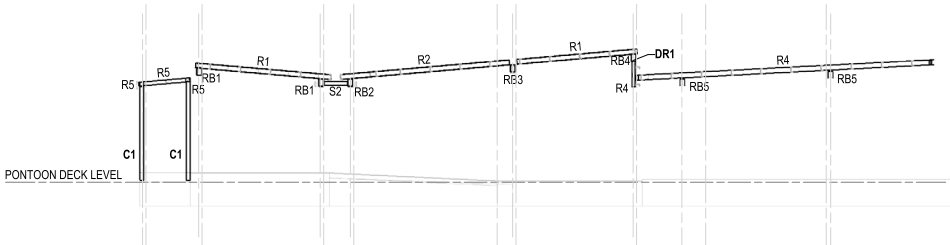


SECTION 7 (4400)
SCALE 1 : 100

0 2000 4000 6000 8000 10000
SCALE 1:100

4	ISSUED FOR TENDER		18-08-20	
3	PRELIMINARY DESIGN RE-ISSUE		17-01-20	
2	PRELIMINARY DESIGN ISSUE		08-11-19	
1	ISSUED FOR INTERNAL REVIEW - QS		25-10-19	
	Revisions/Descriptions	Certification	Date	Microfiled

CAD FILES: BIM 360://7905-29 SMBI Ferry Terminal Designs/46700408-SMBI-Karragarra Island-S-Pontoon.rvt

Last Modified :- 18/08/2020 5:20:41 PM

Associated Job Nos

Auxiliary Drg Nos

Survey Data: Datum GDA94; Horiz. Grid MGA Z56; Height Origin AHD; Survey Books

Scales

Dimensions shown in millimetres except where shown otherwise

SOUTHERN MORETON BAY
SOUTHERN MORETON BAY ISLANDS
KARRAGARRA ISLAND

FERRY TERMINALS DESIGN

Drawn H.G.
Checked P.S.
Designed C.M.
Design Review P.S.
Date 18-08-20

MARITIME
PONTOON
PONTOON FRAMING ELEVATIONS

ENGINEERING CERTIFICATION (RPEQ)

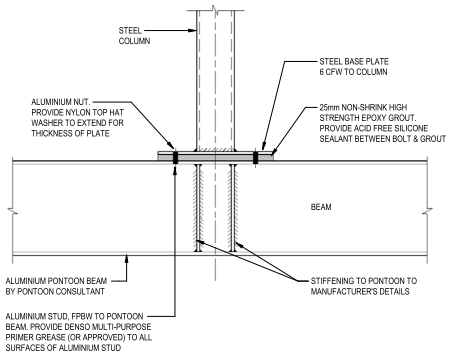
ENG. AREA	NAME	SIGNATURE	NO.	DATE

Queensland Government

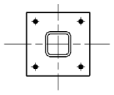
File No.	467/00408
Contract. No.	CN-12653
Drawing No.	4405 | 4
Project No.	TMR29-130
MRM_Detail (05/14)	BN-70-1

ISSUE FOR TENDER

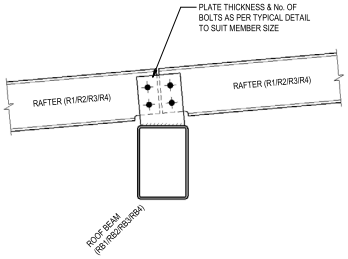
Cardno architectus



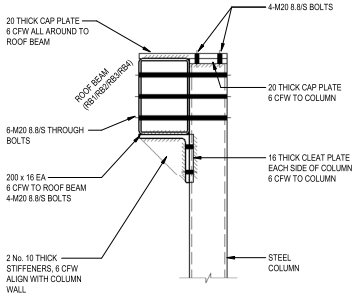
STEEL COLUMN TO PONTOON STIFFENING BEAM DETAIL
NTS



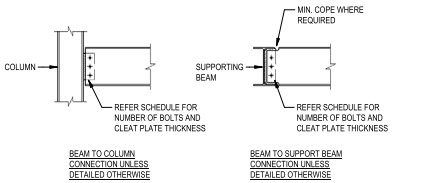
TYPICAL COLUMN BASE PLATE DETAIL
NTS



ROOF BEAM TO RAFTER CONNECTION DETAIL
NTS



ROOF BEAM TO COLUMN CONNECTION DETAIL
NTS

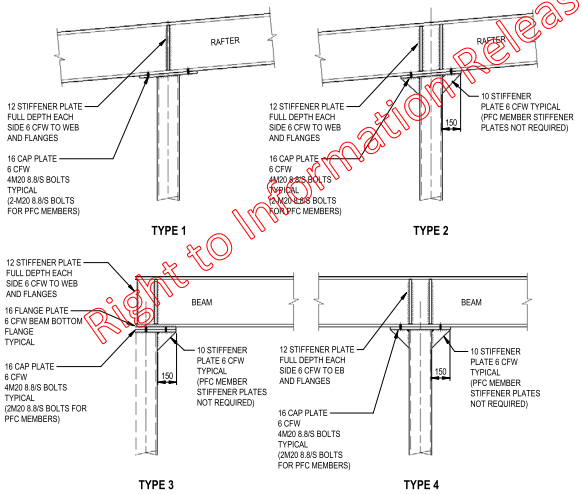


WEB SIDE PLATES
(REFER SCHEDULE BELOW FOR CLEAT PLATE AND BOLT DETAILS)

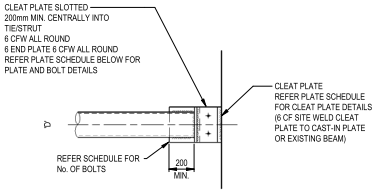
BEAM SIZE	CLEAT PLATE	No. BOLTS
360 UB	10mm	3
310 UB	10mm	3
250 UB	10mm	2
200 UB	10mm	2
180 UB	10mm	2
150 UB	10mm	2

BEAM SIZE	CLEAT PLATE	No. BOLTS
380 PFC	10mm	4
300 PFC	10mm	3
250 PFC	10mm	2
230 PFC	10mm	2
200 PFC	10mm	2
180 PFC	10mm	2
150 PFC	10mm	2

BEAM / RAFTER / COLUMN CONNECTION DETAILS U.N.O.
NTS



TYPICAL BEAM/RAFTER TO STEEL COLUMN DETAILS U.N.O.
NTS



ELEVATION

STRUT SIZE (D)			PLATES	BOLTS
75 SHS	75 RHS	76 CHS	10 PLATES	2-M20 8.8/S
90 SHS	100 RHS	89 CHS	10 PLATES	2-M20 8.8/S
100 SHS	125RHS	102/114 CHS	10 PLATES	2-M20 8.8/S
125 SHS	127 RHS	127/139 CHS	10 PLATES	2-M20 8.8/S
150 SHS	150 RHS	152/165 CHS	16 PLATES	3-M24 8.8/S
200/250 SHS	200 RHS	168/219 CHS	16 PLATES	3-M24 8.8/S

TYPICAL STRUT/TIE/R5 RAFTER DETAILS U.N.O.
NTS

NOTE:
1. ALL STEELWORK GRADE 300 PLUS
2. ALL EXTERNAL STEELWORK TO BE HOT DIPPED GALVANISED
3. ALL CLEAT PLATES GRADE 250 U.N.O.
4. ALL BOLTS M20 8.8/S U.N.O.
5. ALL WELDS (SP) 6mm CONTINUOUS FILLET (CFW) U.N.O.

5	REVISED ISSUE FOR TENDER		01-09-20	
4	ISSUED FOR TENDER		18-08-20	
3	PRELIMINARY DESIGN RE-ISSUE		17-01-20	
2	PRELIMINARY DESIGN ISSUE		08-11-19	
1	ISSUED FOR INTERNAL REVIEW - QS		25-10-19	
	Revisions/Descriptions	Certification	Date	Microfiled

CAD FILES: BIM 360://7905-29 SMBI Ferry Terminal Designs/46700408-SMBI-Karragarra Island-S-Pontoon.rvt

Associated Job Nos

Auxiliary Drg Nos

Survey Data: Datum GDA94; Horiz. Grid MGA Z56; Height Origin AHD; Survey Books

Scales

Dimensions shown in millimetres except where shown otherwise

SOUTHERN MORETON BAY
SOUTHERN MORETON BAY ISLANDS
KARRAGARRA ISLAND

FERRY TERMINALS DESIGN

Drawn H.G.
Checked P.S.
Designed C.M.
Design Review P.S.
Date 01-09-20

MARITIME
PONTOON
ROOF DETAILS - SHEET 1

ENGINEERING CERTIFICATION (RPEQ)

ENG. AREA	NAME	SIGNATURE	NO.	DATE

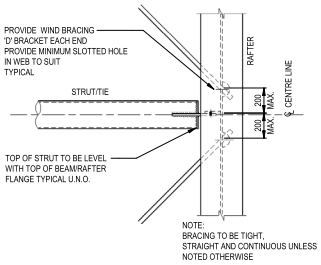
Queensland Government

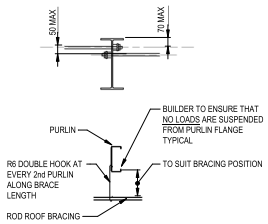
File No. 467/00408
Contract No. CN-12653
Drawing No. 4420 5
Project No. TMR29-130
MRM_Detail (05/14) BN-70-1

Last Modified: - 10/9/2020 11:42:09 AM

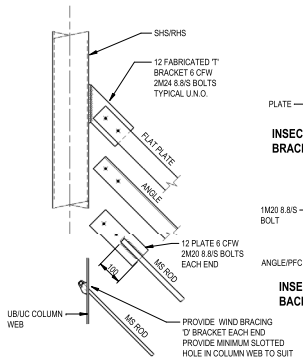
ISSUE FOR TENDER

Cardno architectus

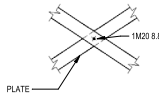




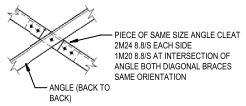
TYPICAL ROD ROOF BRACING DETAILS
NTS



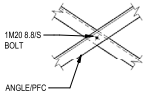
TYPICAL BRACING DETAILS
NTS



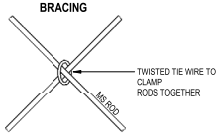
INSECTION DETAIL FLAT PLATE BRACING



INSECTION DETAIL ANGLE BRACING



INSECTION DETAIL BACK TO BACK ANGLE BRACING

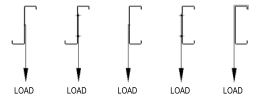


INSECTION DETAIL ROD BRACING

SUSPENDING LOADS FROM PURLINS

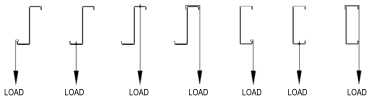
CEILINGS, SERVICES, ETC WHICH ARE SUSPENDED FROM PURLINS SHALL BE FIXED TO THE PURLINS WEBS ONLY.
NO LOADS SHALL BE SUSPENDED FROM, OR HOLES DRILLED THROUGH, PURLIN FLANGES.
WHERE NECESSARY TO HANG CEILINGS, SERVICES PIPES, DUCTWORK, ETC FROM STANDARD PURLINS THE BUILDER SHALL ONLY USE THE FOLLOWING APPROVED METHODS. REFER TO MANUFACTURER FOR APPROVED METHODS OF SUPPORTING LOADS FROM DOUBLE PURLINS.

APPROVED METHODS OF SUSPENDING FROM PURLINS

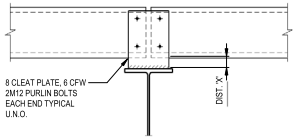


NON-APPROVED METHODS OF SUSPENDING FROM PURLINS

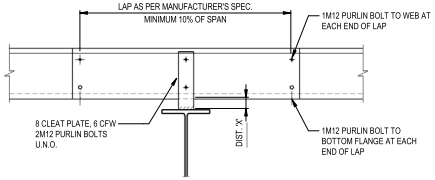
THE BUILDER SHALL NOT USE ANY OF THE FOLLOWING METHODS OF SUSPENSION.



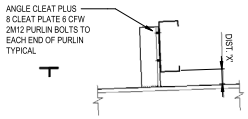
IF IN DOUBT OBTAIN APPROVAL FROM THE PROJECT ENGINEER FOR THE PROPOSED FIXING METHOD PRIOR TO COMMENCING ANY INSTALLATION.
NOTE PARTICULARLY - LOAD SUSPENSION FROM PURLIN BRIDGING IS NOT PERMITTED.

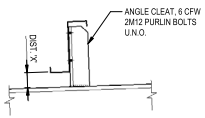


'C' PURLIN/GIRT DETAIL



'Z' PURLIN/GIRTLAP DETAIL



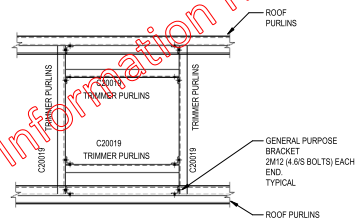


ANGLE CLEAT DETAILS
NTS

PURLIN CLEAT SCHEDULE

CLEAT HEIGHT DIST 'X'	CLEAT
UP TO 50mm	8 PLATE
50mm TO 100mm	10 PLATE
100mm TO 250mm	75 x 10 EA
250mm AND OVER	90 x 12 EA

300mm DEEP PURLIN/GIRT SECTIONS SHALL HAVE A MINIMUM 12mm THICK CLEAT AND M16 PURLIN BOLTS (REFER MANUFACTURER'S SPECIFICATIONS).



TYPICAL ROOF PENETRATION TRIMMER DETAIL
NTS

4	ISSUED FOR TENDER		18-08-20	
3	PRELIMINARY DESIGN RE-ISSUE		17-01-20	
2	PRELIMINARY DESIGN ISSUE		08-11-19	
1	ISSUED FOR INTERNAL REVIEW - QS		25-10-19	
	Revisions/Descriptions	Certification	Date	Microfiled

CAD FILES: BIM 360://7905-29 SMBI Ferry Terminal Designs/46700408-SMBI-Karragarra Island-S-Pontoon.rvt

Last Modified: - 18/08/2020 5:20:53 PM

Associated Job Nos

Auxiliary Drg Nos

Survey Data	
Datum	GDA94
Horiz. Grid	MGA Z56
Height Origin	AHD
Survey Books	

Scales

Dimensions shown in millimetres except where shown otherwise

SOUTHERN MORETON BAY
SOUTHERN MORETON BAY ISLANDS
KARRAGARRA ISLAND

FERRY TERMINALS DESIGN

Drawn	H.G.
Checked	P.S.
Designed	C.M.
Design Review	P.S.
Date	18-08-20

MARITIME
PONTOON
ROOF DETAILS - SHEET 2

ENGINEERING CERTIFICATION (RPEQ)

ENG. AREA	NAME	SIGNATURE	NO.	DATE

Queensland Government

File No.	467/00408
Contract. No.	CN-12653
Drawing No.	4421 | 4
Project No.	TMR29-130
MRM_Detail (05/14)	BN-70-1

ISSUE FOR TENDER

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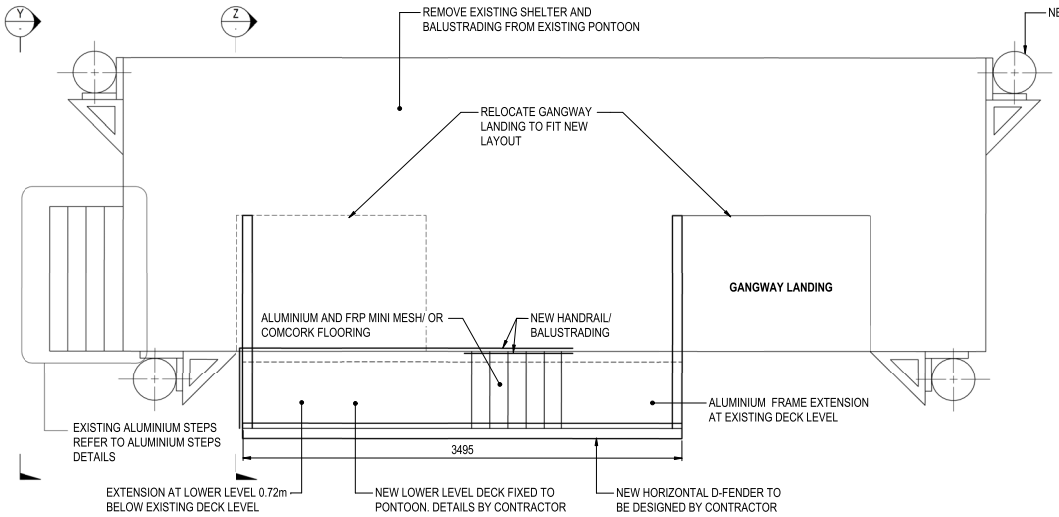
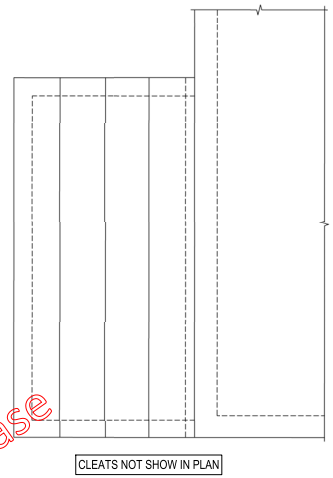
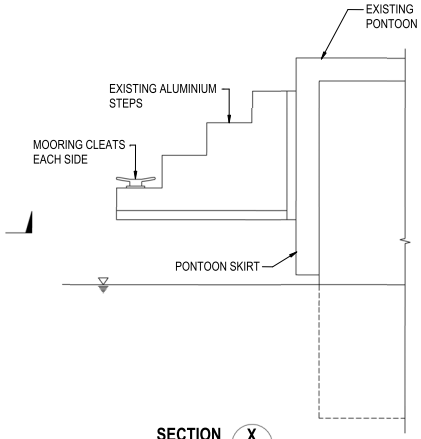


PLAN
SCALE 1 : 20

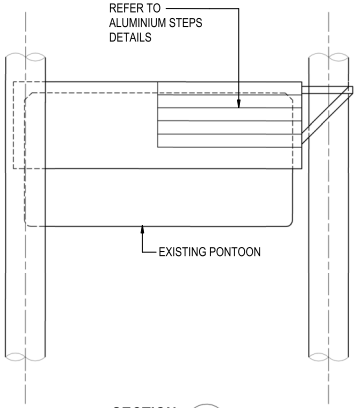




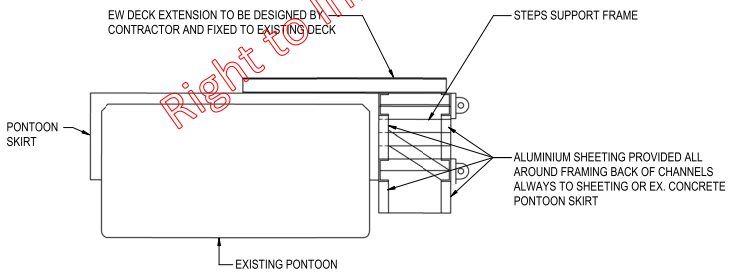
SECTION X
N.T.S.

NOTE:
ALL CONNECTIONS INTO EXISTING CONCRETE PONTOON ARE STAINLESS STEEL M16 CHEMSET.

EXISTING ALUMINIUM STEPS DETAILS
SCALE 1 : 20



SECTION Y
SCALE 1 : 20



SECTION Z
SCALE 1 : 20

NOTES
1. DESIGNS ARE CONCEPT ONLY.
2. DETAILED DESIGN AND CONSTRUCTION TO BE UNDERTAKEN BY THE CONTRACTOR.
3. REFER TO SPECIFICATIONS FOR RECREATIONAL BOATING PONTOON REQUIREMENTS AND PRICING OPTIONS.
4. NOT FOR CONSTRUCTION

0 400 800 1200 1600 2000
SCALE 1:20

No.	Revisions/Descriptions	Certification	Date	Microfiled
4	REVISED ISSUE FOR TENDER		31-08-20	
3	ISSUED FOR TENDER		18-08-20	
2	CONCEPT DESIGN ISSUE		13-07-20	
1	PRELIMINARY DESIGN RE-ISSUE		17-01-20	

CAD FILES: BIM 360://7905-29 SMBI Ferry Terminal Designs/46700408 – SMBI – Karragarra Island – PM – Jetty and Gangway.rvt

Last Modified: - 31/08/2020 4:54:17 PM

Associated Job Nos
Auxiliary Drg Nos

Survey Data: Datum GDA94; Horiz. Grid MGA Z56; Height Origin; Survey Books

Scales
Dimensions shown in millimetres except where shown otherwise

SOUTHERN MORETON BAY
SOUTHERN MORETON BAY ISLANDS
KARRAGARRA ISLAND

FERRY TERMINALS DESIGN

Drawn	GW
Checked	EC
Designed	LB
Design Review	MN
Date	31-08-2020

MARITIME
RECREATIONAL FACILITIES
EXISTING PONTOON REPURPOSING

ENGINEERING CERTIFICATION (RPEQ)

ENG. AREA	NAME	SIGNATURE	NO.	DATE

Queensland Government

File No.	467/00408
Contract. No.	CN-12653
Drawing No.	4460 | 4
Project No.	TMR29-130

MRM_Detail (05/14) BN-70-1

ISSUE FOR TENDER

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GENERAL

- REVISION CLOUD WHERE "#" DENOTES THE REVISION NUMBER
- SEALED PENETRATION
- EXISTING STRUCTURE WITH EXISTING LIGHTING TO BE RE-SUPPLIED, CLEANED AND RE-LAMPED

DISTRIBUTION

- EXISTING OVERHEAD ELECTRICAL LV CABLING TO BE REMOVED
- EXISTING IN-GROUND ELECTRICAL CONDUITS AND LV CABLING TO BE REMOVED
- RELOCATED OVERHEAD ELECTRICAL LV CABLING
- RELOCATED IN-GROUND ELECTRICAL CONDUITS AND LV CABLING
- EXISTING OVERHEAD ELECTRICAL LV CABLING TO REMAIN
- EXISTING IN-GROUND ELECTRICAL CONDUITS & LV CABLING TO REMAIN
- NEW INDICATIVE IN-GROUND ELECTRICAL CONDUITS BY ENERGEX (SUBJECT TO ENERGEX APPROVAL)
- NEW IN-GROUND uPVC HEAVY DUTY ORANGE ELECTRICAL CONDUITS
  - 1E100 — SIZE OF CONDUIT
  - NUMBER OF CONDUITS
- NEW ABB TYPE PA HEAVY WEIGHT IP68 (OR APPROVED EQUIVALENT) ELECTRICAL CONDUIT
  - 1E100 — SIZE OF CONDUIT
  - NUMBER OF CONDUITS
- EXISTING TELSTRA UNDERGROUND CONDUITS & CABLING TO BE REMOVED
- EXISTING TELSTRA UNDERGROUND CONDUITS & CABLING TO REMAIN
- EXISTING TELSTRA OVERHEAD CABLING TO REMAIN
- NEW IN-GROUND uPVC HEAVY DUTY WHITE COMMUNICATIONS CONDUIT
  - 1C100 — SIZE OF CONDUIT
  - NUMBER OF CONDUITS
- NEW ABB TYPE PA HEAVY WEIGHT IP68 (OR APPROVED EQUIVALENT) COMMUNICATIONS CONDUIT
  - 1C100 — SIZE OF CONDUIT
  - NUMBER OF CONDUITS
- C# — NEW ALUMINIUM COMMUNICATIONS CABLE TRAY WHERE '#' DENOTES CABLE LAYING WIDTH IN mm
  MODEL: EZYSTRUT ET3 CABLE TRAY A & ASSOCIATED FIXINGS
- C# — NEW ALUMINIUM ELECTRICAL CABLE TRAY WHERE '#' DENOTES CABLE LAYING WIDTH IN mm
  MODEL: EZYSTRUT ET3 CABLE TRAY A & ASSOCIATED FIXINGS
- EXISTING POLE TO BE REMOVED
- EXISTING POLE WITH STREET LIGHTING TO BE REMOVED / RELOCATED
- EXISTING POLE TO REMAIN
- EXISTING POLE WITH STREET LIGHTING TO REMAIN
- RELOCATED POLE WITH STREET LIGHTING
- EXISTING TELSTRA PLASTIC PIT WHERE '#' DENOTES PIT SIZE/TYPE
- NEW TELSTRA PLASTIC PIT WHERE '#' DENOTES PIT SIZE/TYPE

DISTRIBUTION (cont.)

- PROPOSED LV ELECTRICAL PIT (BY ENERGEX)
- EP — NEW POLYMER CONCRETE POWER CABLE PIT EMBOSSED WITH DESCRIPTOR OF 'ELECTRICITY'. COMPLETE WITH 'CLASS B' LID AND DRAINAGE TO ABSORPTION TRENCH. PROVIDE INFILL LIDS TO MATCH SURROUNDING PAVEMENT FINISH AS REQUIRED.
  SUPPLIER: ACO - CABLEMATE
  MODEL: TYPE 66H
- CP — NEW POLYMER CONCRETE POWER CABLE PIT EMBOSSED WITH DESCRIPTOR OF 'COMMUNICATIONS'. COMPLETE WITH 'CLASS B' LID AND DRAINAGE TO ABSORPTION TRENCH. PROVIDE INFILL LIDS TO MATCH SURROUNDING PAVEMENT FINISH AS REQUIRED.
  SUPPLIER: ACO - CABLEMATE
  MODEL: TYPE 66H

POWER

- NEW MAIN SWITCHBOARD
- SOLAR EQUIPMENT & BATTERY STORAGE CABINETS
- WP — GENERAL PURPOSE OUTLET. RATED 10A 230V U.N.O.
  MODEL: CLIPSAL 2000 SERIES (INDOOR IN AMENITY BLOCK)
  CLIPSAL 56 SERIES WHERE DENOTED AS WEATHERPROOF
- WEATHERPROOF SINGLE PHASE DIRECT CONNECTION / ISOLATOR. RATING AS NOTED.

COMMUNICATIONS

- EXISTING TELSTRA PAYPHONE TO BE RELOCATED
- NEW COMMUNICATIONS CABINET. REFER COMMUNICATIONS SCHEMATICS FOR FURTHER DETAILS.
- n — NEW COMMUNICATIONS RJ45 CAT 6A OUTLET WITHIN CEILING CAVITY WHERE 'n' DENOTES QUANTITY. COMPLETE WITH IP66/IP67 SURFACE MOUNT BOX AND DUST CAP WITH RETENTION TETHER.
  SUPPLIER: ANIXTER
  MODEL: SIEMON RUGGEDIZED G2 Z-MAX CATEGORY 6A SHIELDED OUTLET & X-IBOX-02

SECURITY

- C# — IP CCTV CAMERA WHERE '#' DENOTES CAMERA ID. REFER CAMERA SCHEDULE FOR FURTHER DETAILS.

LIGHTING

REFER LUMINAIRE SCHEDULE FOR SPECIFICATION DETAILS.

- DOWNLIGHT LUMINAIRE
- LINEAR TROFFER LUMINAIRE
- WALL LUMINAIRE
- SPOT LIGHT LUMINAIRE
- POLE MOUNT LUMINAIRE
- LIGHTING CIRCUITING

EMERGENCY & EXIT LIGHTING

REFER LUMINAIRE SCHEDULE FOR SPECIFICATION DETAILS.

- EXIT — MAINTAINED EMERGENCY EXIT LUMINAIRE
- NON-MAINTAINED EMERGENCY LUMINAIRE
- EM-R — EMERGENCY LIGHTING ROUTER
- EM-AC — EMERGENCY LIGHTING AREA CONTROLLER

LIGHTING CONTROL

- IP54 PIR MOTION DETECTOR COMPLETE WITH PE CELL AND COMPATIBLE WITH KNX LIGHTING CONTROL SYSTEM
  MOUNTING: SURFACE MOUNT
  SUPPLIER: CR ELECTRICS
  MODEL: STEINEL IS 3360 KNX
- IP54 PIR MOTION DETECTOR COMPLETE WITH PE CELL AND COMPATIBLE WITH KNX LIGHTING CONTROL SYSTEM
  MOUNTING: SURFACE MOUNT
  SUPPLIER: CR ELECTRICS
  MODEL: STEINEL IS 345

SCHEMATICS

- CIRCUIT BREAKER
- ISOLATOR
- RESIDUAL CURRENT DEVICE WITH OVERLOAD PROTECTION (30mA)
- CABLE / CONNECTION
- CONNECTION
- CONTACTOR
- INTERFACE CABLING
- BUSBAR
- # — CABLE ID
- SINGLE PHASE
- CURRENT TRANSFORMER
- FUSE
- ENCLOSURE
- DPM — DIGITAL POWER METER
- SURGE DIVERTER
- kWh — SUPPLY AUTHORITY METER
- ELTS — EMERGENCY LIGHTING TEST SWITCH
- 400W SOLAR PANEL, 19.9% MODULE EFFICIENCY, 2010Lx1000Wx40H mm
  SUPPLIER: ACW ENERGY
  MODEL: SUMEC PHONO SOLAR TWIN PLUS MODULE

	Revisions/Descriptions	Certification	Date	Microfiled
4	ISSUED FOR TENDER		31-07-20	
3	PRELIMINARY DESIGN RE-ISSUE		19-12-19	
2	PRELIMINARY DESIGN ISSUE		08-11-19	
1	ISSUE FOR INTERNAL REVIEW - QS		25-10-19	

Associated Job Nos

Auxiliary Drg Nos

Survey Data: Datum GDA94; Horiz. Grid MGA Z56; Height Origin AHD; Survey Books

Scales

Dimensions shown in millimetres except where shown otherwise

SOUTHERN MORETON BAY
SOUTHERN MORETON BAY ISLANDS
KARRAGARRA ISLAND

FERRY TERMINALS DESIGN

Drawn J.G.
Checked L.T.
Designed R.B.
Design Review
Date. 31-07-2020

ELECTRICAL

LEGEND OF SYMBOLS

ENGINEERING CERTIFICATION (RPEQ)

ENG. AREA	NAME	SIGNATURE	NO.	DATE
ELECTRICAL				31-07-2020

Queensland Government

File No.	467/00408
Contract. No.	CN-12653
Drawing No.	4500 | 4
Project No.	TMR29-130
MRM_Detail (05/14)	BN-70-1-2

ISSUE FOR TENDER

Cardno architectus

GENERAL NOTES:

1. ALL WORK SHALL BE CARRIED OUT IN ACCORDANCE WITH ALL RELEVANT AUSTRALIAN STANDARDS, IN PARTICULAR AS/NZS 3000:2018, AS/NZS 3008, AS/NZS 1158, AS/NZS 1680, ISO/IEC 11801, AS/NZS 3084 AND AS/NZS 61439. IN ADDITION, WORKS SHALL COMPLY WITH TRANSLINK STANDARDS, TMR STANDARDS AND THE REQUIREMENTS OF ALL RELEVANT AUTHORITIES HAVING JURISDICTION OVER THE WORKS INCLUDING SERVICE INSTALLATION RULES AND ELECTRICAL SAFETY REGULATIONS.
2. ALL WORKS SHALL BE CARRIED OUT IN ACCORDANCE WITH THE REQUIREMENTS OF THE ELECTRICAL SITE WORKS SPECIFICATION FOR ELECTRICAL SERVICES INCLUDING REQUIREMENTS FOR 'AS BUILT' DOCUMENTATION AND OPERATION & MAINTENANCE MANUALS.
3. CONTRACTOR SHALL VISIT THE SITE AND BECOME CONVERSANT WITH THE EXISTING SITE CONDITIONS AND SCOPE OF WORK REQUIRED UNDER THIS CONTRACT AND MAKE ALL THE REQUIRED ALLOWANCES TO COMPLETE THE WORKS.
4. THE CONTRACTOR SHALL LIAISE WITH ALL OTHER TRADES ON THE SITE AND COORDINATE THE ELECTRICAL INSTALLATION WHERE IT AFFECTS OTHER TRADES.
5. PROVIDE EARTHING TO ALL ELECTRICAL EQUIPMENT AND BOND ALL EXTRANEOUS METALLIC PARTS TO THE EQUIPOTENTIAL BONDING SYSTEM.
6. ALL CABLING INSTALLATION SHALL BE CONCEALED. WHERE IMPRACTICAL, OBTAIN CONSULTANT'S APPROVAL BEFORE PROCEEDING WITH ALTERNATIVE METHODS.
7. TRAFFOLYTE LABELLING SHALL BE PROVIDED FOR ALL OUTLETS AND SWITCHES TO INDICATE DISTRIBUTION BOARD AND CIRCUIT NUMBER.
8. CIRCUITS SHALL NOT BE LOADED IN EXCESS OF 70% OF THE RESPECTIVE CIRCUIT BREAKER RATING.
9. PROVIDE AND MAINTAIN TEMPORARY POWER SUPPLIES AND METERING DURING THE CONSTRUCTION PHASE. REMOVE SUCH TEMPORARY INSTALLATIONS ON COMPLETION OF THE WORKS.
10. THE ELECTRICAL CONTRACTOR SHALL PROGRESSIVELY REMOVE FROM THE SITE ALL RUBBISH, DEBRIS, MATERIAL CUTTINGS AND OTHER REDUNDANT MATERIAL, WHICH RESULT FROM THE WORKS OF THE CONTRACT.
11. PROVIDE A CERTIFICATE OF ELECTRICAL SAFETY ON COMPLETION OF THE WORKS.
12. THE ELECTRICAL CONTRACTOR SHALL COORDINATE ALL WORKS WITH CIVIL, WATER, MARITIME AND ARCHITECTURAL / LANDSCAPE DRAWINGS AND HEAD CONTRACTOR. ALL LOCATION SHALL BE CONFIRMED WITH THE CLIENT ON SITE.
13. THE ELECTRICAL LOAD SHALL BE BALANCED ACROSS THE 3 PHASES (MAX. OF 10% IMBALANCE BETWEEN THE MOST LIGHTLY LOADED PHASE AND THE MOST HIGHLY LOADED PHASE) AT FULL LOAD OPERATION OF ALL EQUIPMENT. THE POWER FACTOR OF THE INSTALLATION SHALL NOT BE LESS THAN 0.9 LAGGING.
14. CONTRACTOR TO CHECK ALL EQUIPMENT DETAILS WITH MANUFACTURER, FOR CONSTRUCTABILITY, PRIOR TO PLACING AN ORDER.
15. COORDINATE AND CONFIRM ALL COLOUR FINISHES PRIOR TO PLACING AN ORDER .
16. COORDINATE ALL CONCRETE SLABS, PLINTHS, BASE AND FOOTING DETAILS WITH MANUFACTURER AND OTHER TRADES.

DEMOLITION NOTES:

1. ENSURE THE CONTINUOUS OPERATION OF EXISTING ELECTRICAL AND COMMUNICATIONS SERVICES TO CONSTRUCTION STAGES OF THE EARLY WORKS UNLESS AGREED OTHERWISE.
2. ANY EXISTING ELECTRICAL AND COMMUNICATIONS SERVICES THAT ARE ALTERED/REMOVED OUTSIDE THE SPECIFIED SCOPE SHALL BE REINSTATED BY THE ELECTRICAL CONTRACTOR AT THEIR EXPENSE.
3. THE ELECTRICAL CONTRACTOR SHALL ENSURE ALL THE ITEMS OF ELECTRICAL EQUIPMENT REMOVED ARE OFFERED TO THE PROJECT MANAGER PRIOR TO OFFSITE DISPOSAL. EQUIPMENT TO BE RETAINED SHALL BE STORED ON SITE IN AGREED LOCATIONS AS INSTRUCTED BY THE CLIENT REPRESENTATIVE.
4. THE ELECTRICAL CONTRACTOR SHALL ALLOW TO INSPECT THE ENTIRE SITE PRIOR THE TENDERING TO UNDERSTAND THE TRUE NATURE OF THE WORKS AND MAKE ALLOWANCES FOR THE DISCONNECTION AND REMOVAL OF ALL REDUNDANT ELECTRICAL SERVICES EQUIPMENT WITHIN THE DEMOLITIONS WORKS AREAS AS NOTED ON THE CIVIL DRAWING REGARDLESS OF WHETHER IT IS INDICATED ON THE DRAWINGS.
5. THE CONTRACTOR IS TO ADVISE ON ANY REQUIREMENTS FOR THE REMOVAL/RELOCATION OF LIGHT FITTINGS, POWER OUTLETS, CONDUIT, CABLING AND OTHER MISCELLANEOUS EQUIPMENT REGARDLESS OF WHETHER IT IS INDICATED ON THE DRAWINGS.
6. THE CONTRACTOR SHALL LIAISE WITH THE PROJECT MANANGER REPRESENTATIVE TO COORDINATE ANY POWER OUTAGES REQUIRED AS PART OF THE UPGRADE WORKS.
7. ALL EQUIPMENT SUCH AS LIGHT FITTINGS, CABLES, PANELS ETC. LOCATED IN CLOSE PROXIMITY TO THE DEMOLITION SITE/CONSTRUCTION ZONES SHALL BE MECHANICALLY PROTECTED TO PREVENT DAMAGE.
8. THE ELECTRICAL CONTRACTOR SHALL UPDATE ALL DISTRIBUTION BOARD SCHEDULE WHERE NEW SUPPLIES HAVEN BEEN TAKEN AND/OR CIRCUITS REMOVED.
9. SERVICES SHOWN ON THE DRAWINGS ARE FOR A GUIDE ONLY AND EXACT LOCATION AND EXTENT SHALL BE CONFIRMED ONSITE.
10. ALL ELECTRICAL WORKS SHALL BE CARRIED OUT IN ACCORDANCE WITH AS/NZS 3000, BCA AND LOCAL GUIDELINES.
11. THIS DRAWING SHALL BE READ IN CONJUNCTION WITH THE CIVIL DRAWINGS FOR DEMOLITION STAGES OF WORKS.

ABBREVIATIONS

AFFL	ABOVE FINISHED FLOOR LEVEL
CL	CLEANER
CM	CEILING SURFACE MOUNTED
CP	CAPTIVE OUTLET
CS	CEILING SPACE MOUNTED
FOBOT	FIBRE OPTIC BREAK OUT TRAY
IC	INFORMATION CABINET
IS	ILLUMINATED SIGNAGE
HD	HAND DRYER
HL	HIGH LEVEL
MSB	MAIN SWITCHBOARD
PM	POLE MOUNTED
RTPID	REAL TIME PASSENGER INFORMATION DISPLAY
SP	SEPTIC PUMP CONTROL PANEL
VM	VENDING MACHINE
WAP	WIRELESS ACCESS POINT (FUTURE PROVISION)
WM	WALL MOUNTED
WP	WEATHERPROOF

LUMINAIRE SCHEDULE

DESIGNATION	FIXTURE TYPE	COLOUR TEMPERATURE	POWER CONSUMPTION	LUMINAIRE LUMENS	OPTICS	IP RATING	IK RATING	COLOUR	CONTROL GEAR	MOUNTING	SUPPLIER	MODEL	NOTES
D1	DOWNLIGHT	3000K	15W	1052lm	24 DEGREES	IP65	IK08	BLACK (TBC)	DALI DIMMABLE	CEILING RECESSED	BLUELAB DESIGN PTY LTD	A0686	HIGH CORROSION AND SALT SPRAY RESISTANCE
D2	DOWNLIGHT	3000K	15W	1052lm	24 DEGREES	IP65	IK08	BLACK (TBC)	DALI DIMMABLE	CEILING SURFACE MOUNTED (TO PURLINS)	BLUELAB DESIGN PTY LTD	H9935	HIGH CORROSION AND SALT SPRAY RESISTANCE
D3	DOWNLIGHT	3000K	10W	642lm	24 DEGREES	IP65	IK08	WHITE (TBC)	DALI DIMMABLE	CEILING RECESSED	BLUELAB DESIGN PTY LTD	A0685	HIGH CORROSION AND SALT SPRAY RESISTANCE
L1	LINEAR TROFFER	3000K	16W	1500lm	SATIN OPAL DIFFUSER	IP65	IK10	STAINLESS STEEL	DALI DIMMABLE	CEILING RECESSED	THORLUX LIGHTING	SOLITE	TAMPER PROOF, HIGH CORROSION AND SALT SPRAY RESISTANCE. REPLACABLE LED BOARDS, DIFFUSER AND DRIVERS.
P1	POLE	-	-	-	-	-	-	BLACK WITH PRIMER TO SUIT MARINE ENVIRONMENT		JETTY: BASE PLATE MOUNT (M16 RAG BOLT) / LANDSIDE: IN-GROUND MOUNT	VICPOLE	TAPERED OCTAGONAL COLUMN	COMPLETE WITH 80Wx285H mm DOOR OPENING AT 1000mm AFFL. PROVIDE 6A CIRCUIT BREAKER AND TERMINAL STRIP. INTERNAL WIRING TO LUMINAIRE HEAD SHALL BE MINIMUM 4mm2 2C+E. COORDINATE MOUNTING DETAILS WITH STRUCTURAL ENGINEER. MOUNTING IN ACCORDANCE WITH MANUFACTURER DETAILS.
	POLE TOP LUMINAIRE	3000K	42W	4780lm	PATHWAY DISTRIBUTION	IP66	IK10	BLACK (GRAPHITE)	DALI DIMMABLE	POLE TOP 4000mm AFFL	THORLUX LIGHTING	STARFLOOD	COMPLETE WITH PE CELL AND POLE TOP MOUNTING KIT
S1	SPOTLIGHT	3000K	15W	-	24 DEGREES W/ HONEYCOMB LENS	IP65	IK08	BLACK (TBC)	DALI DIMMABLE	FLANGE WITH POLE / BANDIT STRAP TO POLE	BLUELAB DESIGN PTY LTD	OUTDOOR FLOOD	FINAL MOUNTING DETAILS SHALL BE COORDINATED TO OPTIMISE ILLUMINATION ON FEATURE / ARTWORK.
W1	WALL LUMINAIRE	3000K	19.7W	2228lm	137x58 DEGREES (T2)	IP65	IK07	BLACK	DALI DIMMABLE	SURFACE MOUNTED TO STRUCTURE / WALL	LIGMAN	LEEDS 6	HIGH CORROSION AND SALT SPRAY RESISTANCE

EMERGENCY & EXIT LUMINAIRE SCHEDULE

DESIGNATION	FIXTURE TYPE	POWER CONSUMPTION	BATTERY	C0, C90	IP RATING	IK RATING	COMPATIBILITY	MOUNTING	SUPPLIER	MODEL	NOTES
EM1	NON-MAINTAINED EMERGENCY LUMINAIRE	1.0W	LiFePO4	C0:D63 C90:D63	IP54	-	COMPATIBLE WITH NEXUS RF CENTRAL MONITORING SYSTEM	RECESSED	STANILITE	PLATINUM SPITFIRE LED NON-MAINTAINED	RECESSED SPITFIRE INSTALLED AND FITTED COMPLETE WITH WEATHERPROOF, VANDAL PROOF INSTALLATION KIT
EX1	MAINTAINED EXIT LUMINAIRE	3.2W	LiFePO4	C0:D1.25 C90:C1.25	IP65	IK08	COMPATIBLE WITH NEXUS RF CENTRAL MONITORING SYSTEM	SURFACE / ROD SUSPENDED (CABLING CONCEALED) AT MAX. 2700mm AFFL	STANILITE	PLATINUM EXIT LED 24M	SINGLE OR DOUBLE SIDED AND WITH DIRECTIONAL ARROWS, AS REQUIRED.
EM-AC	HEADEND AREA CONTROLLER	-	LiFePO4	-	-	-	-	WALL MOUNTED	STANILITE	NEXUS RF AREA CONTROLLER	REFER ELECTRICAL SPECIFICATION
EM-R	ROUTER	-	LiFePO4	-	-	-	-	WITHIN CEILING CAVITY	STANILITE	NEXUS RF ROUTER	REFER ELECTRICAL SPECIFICATION

	Revisions/Descriptions	Certification	Date	Microfiled
5	REVISED ISSUE FOR TENDER		31-08-20	
4	ISSUED FOR TENDER		14-08-20	
3	PRELIMINARY DESIGN RE-ISSUE		19-12-19	
2	PRELIMINARY DESIGN ISSUE		08-11-19	
1	ISSUE FOR INTERNAL REVIEW - QS		25-10-19	

Associated Job Nos

Auxiliary Drg Nos

Survey Data: Datum GDA94; Horiz. Grid MGA Z56; Height Origin AHD; Survey Books

Scales

Dimensions shown in millimetres except where shown otherwise

SOUTHERN MORETON BAY
SOUTHERN MORETON BAY ISLANDS
KARRAGARRA ISLAND

FERRY TERMINALS DESIGN

Drawn J.G.
Checked L.T.
Designed R.B.
Design Review
Date. 31-07-2020

ELECTRICAL

GENERAL NOTES AND LUMINAIRE SCHEDULE

ENGINEERING CERTIFICATION (RPEQ)

ENG. AREA	NAME	SIGNATURE	NO.	DATE
ELECTRICAL				31-07-2020

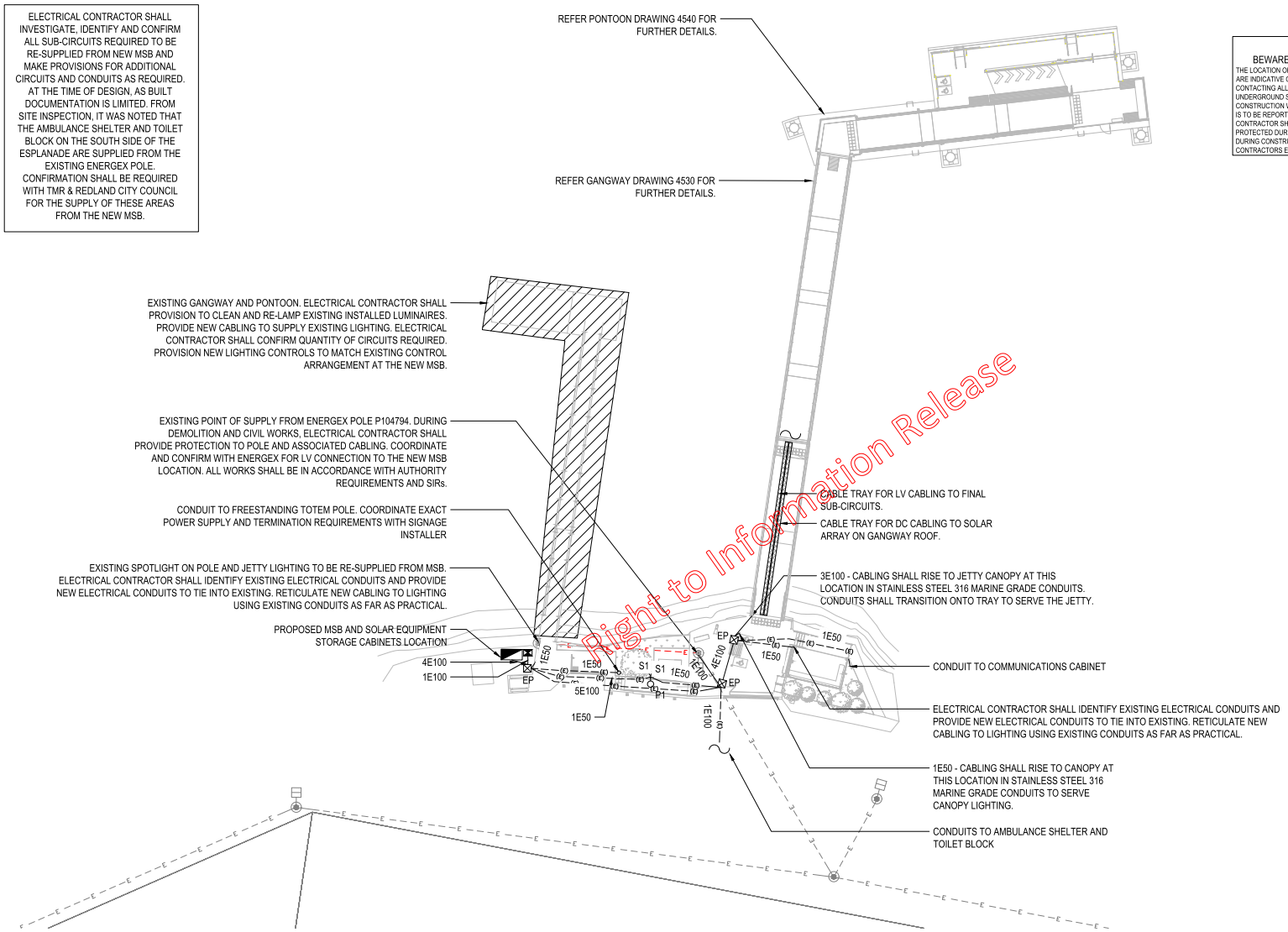
Queensland Government

File No.	467/00408
Contract. No.	CN-12653
Drawing No.	4501 5
Project No.	TMR29-130
MRM_Detail (05/14)	BN-70-1-2

ISSUE FOR TENDER

Cardno architectus

ELECTRICAL CONTRACTOR SHALL INVESTIGATE, IDENTIFY AND CONFIRM ALL SUB-CIRCUITS REQUIRED TO BE RE-SUPPLIED FROM NEW MSB AND MAKE PROVISIONS FOR ADDITIONAL CIRCUITS AND CONDUITS AS REQUIRED. AT THE TIME OF DESIGN, AS BUILT DOCUMENTATION IS LIMITED. FROM SITE INSPECTION, IT WAS NOTED THAT THE AMBULANCE SHELTER AND TOILET BLOCK ON THE SOUTH SIDE OF THE ESPLANADE ARE SUPPLIED FROM THE EXISTING ENERGEX POLE. CONFIRMATION SHALL BE REQUIRED WITH TMR & REDLAND CITY COUNCIL FOR THE SUPPLY OF THESE AREAS FROM THE NEW MSB.



WARNING

BEWARE OF UNDERGROUND SERVICES

THE LOCATION OF EXISTING UNDERGROUND SERVICES SHOWN ARE INDICATIVE ONLY. THE CONTRACTOR IS RESPONSIBLE FOR CONTACTING ALL AUTHORITIES TO DETERMINE THE LOCATION OF UNDERGROUND SERVICES PRIOR TO THE COMMENCEMENT OF CONSTRUCTION WORK. ANY CLASH OF WORKS WITH A SERVICE IS TO BE REPORTED TO THE ENGINEER IMMEDIATELY. THE CONTRACTOR SHALL ENSURE THAT ALL SERVICES ARE FULLY PROTECTED DURING CONSTRUCTION. ANY SERVICES DAMAGED DURING CONSTRUCTION SHALL BE REPAIRED AT THE CONTRACTORS EXPENSE.

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NORTH

NOTES:

1. THIS DRAWING SHALL BE PRINTED IN COLOUR.
2. THIS DRAWING SHALL BE READ IN CONJUNCTION WITH ELECTRICAL SPECIFICATION AND SCHEDULES AS WELL AS MARITIME, LANDSCAPE, ARCHITECTURE AND OTHER TRADES' DOCUMENTATION.
3. REFER TO 4500 & 4501 FOR LEGEND OF SYMBOLS AND GENERAL NOTES.
4. CABLE TRAYS SHALL RUN WITHIN CEILING CAVITY AS FAR AS PRACTICAL. COORDINATE CABLE TRAY RETICULATION AND SUPPORT WITH STRUCTURE. WHERE NOT CONCEALED BY CEILING (SUCH AS AT TRANSITION POINTS BETWEEN STRUCTURES), PROVIDE CUSTOM HEAVY DUTY MARINE GRADE STAINLESS STEEL 316 ENCLOSURE. CABLE TRAYS SHALL BE PROVIDED WITH EZYSTRUT NEMA 2 SPLICE PLATES AT TRANSITION POINTS TO ENABLE MOVEMNT BETWEEN ADJACENT STRUCTURES. CABLING SHALL BE PROVIDED WITH SUFFICIENT SLACK TO ENABLE MOVEMENT.
5. ELECTRICAL CONTRACTOR SHALL LIAISE WITH AND COORDINATE IN-GROUND CONDUIT RETICULATION PATHWAYS WITH ALL OTHER CONDUITS AND TRADES INCLUDING COMMUNICATIONS, STORMWATER & DRAINAGE. MAINTAIN SEGREGATION IN ACCORDANCE WITH AS/NZS 3000.
6. PROVIDE FLEXIBLE CONNECTION TO IN-GROUND CONDUITS IN SLABS WHERE LANDSIDE AND JETTY STRUCTURES CONNECT.
7. ALL PAVEMENT REINSTATEMENT WORKS ARE TO BE IN ACCORDANCE WITH IPWEA STANDARD DRAWING RS-170.

0 4000 8000 12000 16000 20000

SCALE 1:200

4	ISSUED FOR TENDER		14-08-20	
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2	PRELIMINARY DESIGN ISSUE		08-11-19	
1	ISSUE FOR INTERNAL REVIEW - QS		25-10-19	
`	Revisions/Descriptions	Certification	Date	Microfiled

Associated Job Nos

Auxiliary Drg Nos

Survey Data: Datum GDA94; Horiz. Grid MGA Z56; Height Origin AHD; Survey Books

Scales

Dimensions shown in millimetres except where shown otherwise

SOUTHERN MORETON BAY
SOUTHERN MORETON BAY ISLANDS
KARRAGARRA ISLAND

FERRY TERMINALS DESIGN

Drawn J.G.
Checked L.T.
Designed R.B.
Design Review
Date. 31-07-2020

ELECTRICAL

ELECTRICAL INFRASTRUCTURE SITE PLAN

ENGINEERING CERTIFICATION (RPEQ)

ENG. AREA	NAME	SIGNATURE	NO.	DATE
ELECTRICAL				31-07-2020

Queensland Government

File No.	467/00408
Contract. No.	CN-12653
Drawing No.	4502 | 4
Project No.	TMR29-130
MRM_Detail (05/14)	BN-70-1-1

ISSUE FOR TENDER

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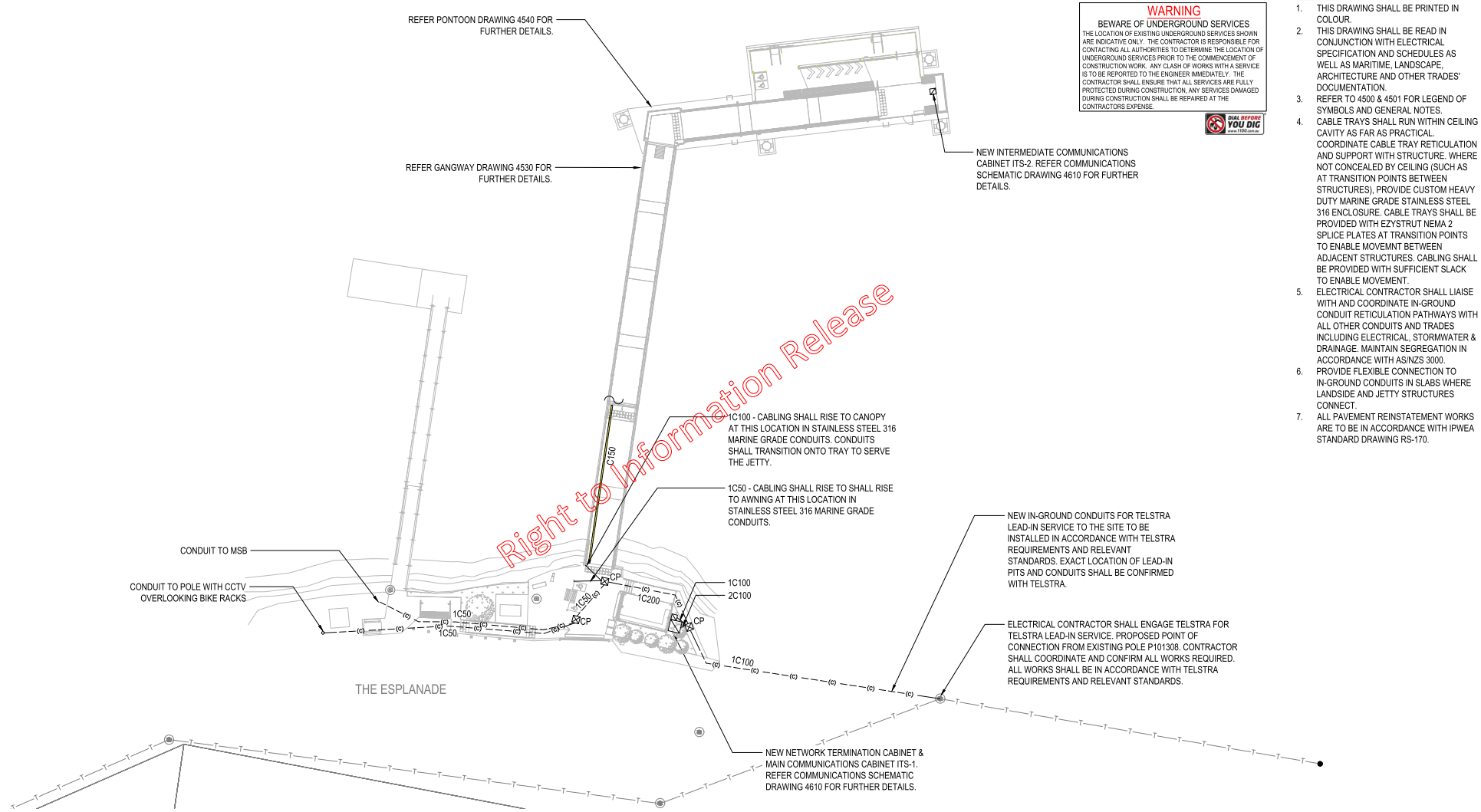

WARNING

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NOTES:

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3. REFER TO 4500 & 4501 FOR LEGEND OF SYMBOLS AND GENERAL NOTES.
4. CABLE TRAYS SHALL RUN WITHIN CEILING CAVITY AS FAR AS PRACTICAL. COORDINATE CABLE TRAY RETICULATION AND SUPPORT WITH STRUCTURE. WHERE NOT CONCEALED BY CEILING (SUCH AS AT TRANSITION POINTS BETWEEN STRUCTURES), PROVIDE CUSTOM HEAVY DUTY MARINE GRADE STAINLESS STEEL 316 ENCLOSURE. CABLE TRAYS SHALL BE PROVIDED WITH EZYSTRUT NEMA 2 SPLICE PLATES AT TRANSITION POINTS TO ENABLE MOVEMNT BETWEEN ADJACENT STRUCTURES. CABLING SHALL BE PROVIDED WITH SUFFICIENT SLACK TO ENABLE MOVEMENT.
5. ELECTRICAL CONTRACTOR SHALL LIAISE WITH AND COORDINATE IN-GROUND CONDUIT RETICULATION PATHWAYS WITH ALL OTHER CONDUITS AND TRADES INCLUDING ELECTRICAL, STORMWATER & DRAINAGE. MAINTAIN SEGREGATION IN ACCORDANCE WITH AS/NZS 3000.
6. PROVIDE FLEXIBLE CONNECTION TO IN-GROUND CONDUITS IN SLABS WHERE LANDSIDE AND JETTY STRUCTURES CONNECT.
7. ALL PAVEMENT REINSTATEMENT WORKS ARE TO BE IN ACCORDANCE WITH IPWEA STANDARD DRAWING RS-170.

4	ISSUED FOR TENDER		14-08-20	
3	PRELIMINARY DESIGN RE-ISSUE		19-12-19	
2	PRELIMINARY DESIGN ISSUE		08-11-19	
1	ISSUE FOR INTERNAL REVIEW - QS		25-10-19	
	Revisions/Descriptions	Certification	Date	Microfiled

Associated Job Nos

Auxiliary Drg Nos

Survey Data: Datum GDA94; Horiz. Grid MGA Z56; Height Origin AHD; Survey Books

Scales

Dimensions shown in millimetres except where shown otherwise

SOUTHERN MORETON BAY
SOUTHERN MORETON BAY ISLANDS
KARRAGARRA ISLAND

FERRY TERMINALS DESIGN

Drawn J.G.
Checked L.T.
Designed R.B.
Design Review
Date. 31-07-2020

ELECTRICAL

COMMUNICATIONS INFRASTRUCTURE SITE PLAN

ENGINEERING CERTIFICATION (RPEQ)

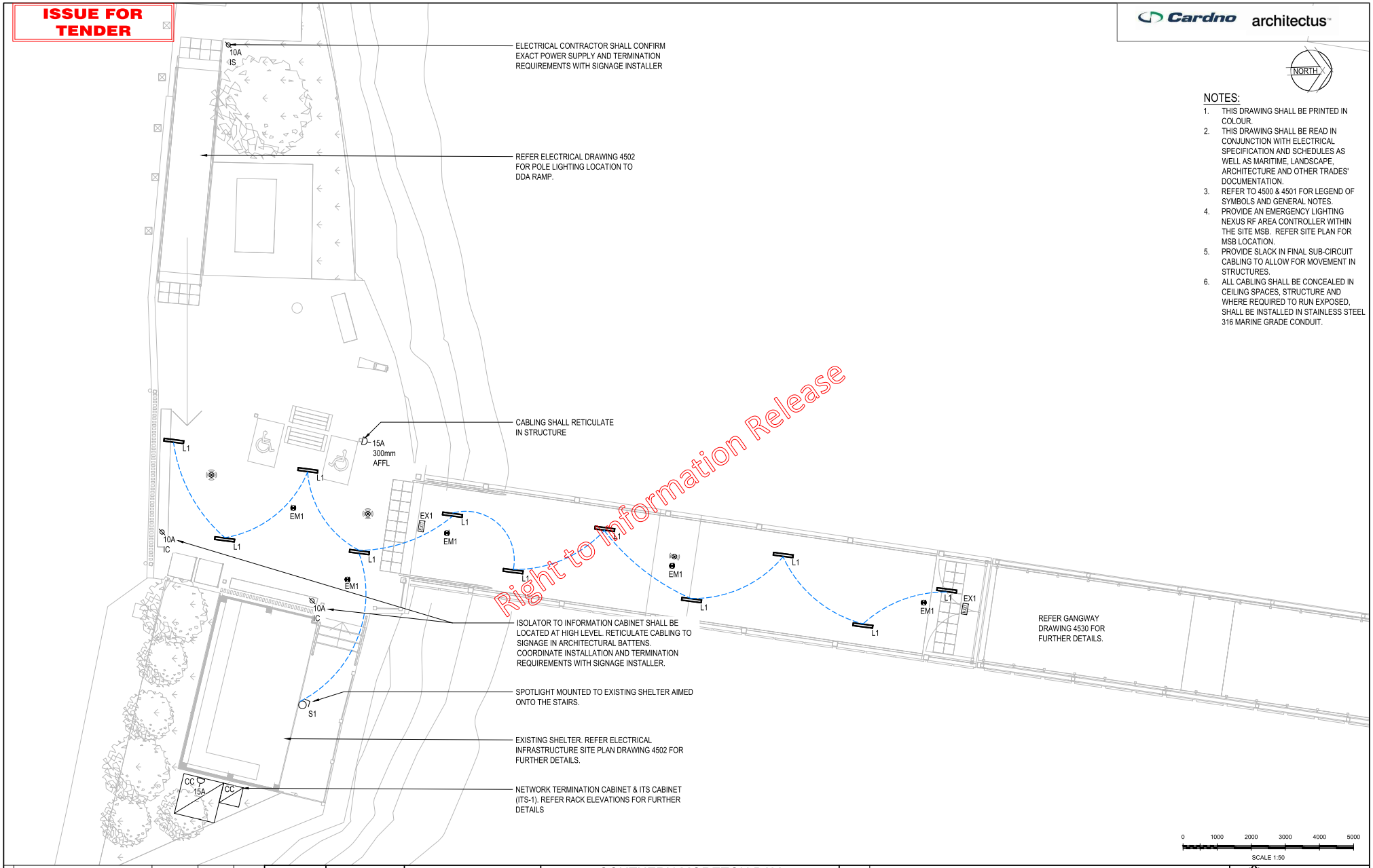
ENG. AREA	NAME	SIGNATURE	NO.	DATE
ELECTRICAL				31-07-2020

Queensland Government

File No.	467/00408
Contract. No.	CN-12653
Drawing No.	4503 | 4
Project No.	TMR29-130
MRM_Detail (05/14)	BN-70-1-1

ISSUE FOR TENDER

Cardno architectus



NOTES:

1. THIS DRAWING SHALL BE PRINTED IN COLOUR.
2. THIS DRAWING SHALL BE READ IN CONJUNCTION WITH ELECTRICAL SPECIFICATION AND SCHEDULES AS WELL AS MARITIME, LANDSCAPE, ARCHITECTURE AND OTHER TRADES' DOCUMENTATION.
3. REFER TO 4500 & 4501 FOR LEGEND OF SYMBOLS AND GENERAL NOTES.
4. PROVIDE AN EMERGENCY LIGHTING NEXUS RF AREA CONTROLLER WITHIN THE SITE MSB. REFER SITE PLAN FOR MSB LOCATION.
5. PROVIDE SLACK IN FINAL SUB-CIRCUIT CABLING TO ALLOW FOR MOVEMENT IN STRUCTURES.
6. ALL CABLING SHALL BE CONCEALED IN CEILING SPACES, STRUCTURE AND WHERE REQUIRED TO RUN EXPOSED, SHALL BE INSTALLED IN STAINLESS STEEL 316 MARINE GRADE CONDUIT.

0 1000 2000 3000 4000 5000

SCALE 1:50

4	ISSUED FOR TENDER		14-08-20	
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`	Revisions/Descriptions	Certification	Date	Microfiled

Associated Job Nos

Auxiliary Drg Nos

Survey Data	
Datum	GDA94
Horiz. Grid	MGA Z56
Height Origin	AHD
Survey Books	

Scales

Dimensions shown in millimetres except where shown otherwise

SOUTHERN MORETON BAY
SOUTHERN MORETON BAY ISLANDS
KARRAGARRA ISLAND

FERRY TERMINALS DESIGN

Drawn	J.G.
Checked	L.T.
Designed	R.B.
Design Review	
Date	31-07-2020

ELECTRICAL
LANDSIDE AND JETTY
LIGHTING AND POWER LAYOUT

ENGINEERING CERTIFICATION (RPEQ)

ENG. AREA	NAME	SIGNATURE	NO.	DATE
ELECTRICAL				31-07-2020

Queensland Government

File No.	467/00408
Contract. No.	CN-12653
Drawing No.	4510 | 4
Project No.	TMR29-130
MRM_Detail (05/14)	BN-70-1-1

ISSUE FOR TENDER

Cardno architectus

LIGHTING CALCULATION SUMMARY

DESIGN CRITERIA FOR EXTERNAL LIGHTING IS BASED ON TRANSLINK LIGHTING STANDARDS

DESIGN CRITERIA FOR INTERNAL LIGHTING (AMENITIES BLOCK) IS BASED ON AS/NZS 1680 AND AS/NZS 1428 FOR DDA AREAS

CALCULATION AREA	DESIGN CRITERIA	ILLUMINANCE UNITS	MAINTAINED AVERAGE ILLUMINANCE, Eh		MINIMUM POINT HORIZONTAL ILLUMINANCE, Eph		MINIMUM POINT VERTICAL ILLUMINANCE, Epv		UNIFORMITY		
			REQUIRED	CALCULATED	REQUIRED	CALCULATED	REQUIRED	CALCULATED	CALCULATION	REQUIRED	CALCULATED
GANGWAY	AS/NZS 1158 (2xP6)	LUX	≥42	66	≥14	18	≥14	24	MAX/AVG	≤8	1.5
JETTY WALKWAY	AS/NZS 1158 (2xP6)	LUX	≥42	101	≥14	64	≥14	19	MAX/AVG	≤8	1.3
SINGLE BERTH PONTOON	AS/NZS 1158 (2xP6)	LUX	≥42	93	≥14	27	≥14	17	MAX/AVG	≤8	2.4
UNCOVERED DDA RAMP (LANDSIDE)	AS/NZS 1158 (P6)	LUX	≥21	67	≥7	41	≥7	33	MAX/AVG	≤8	1.4
COVERED WAITING AREA (LANDSIDE)	AS/NZS 1158 (P6)	LUX	≥42	74	≥14	40	≥14	24	MAX/AVG	≤8	1.4

NOTES:

1. THIS DRAWING SHALL BE PRINTED IN COLOUR.
2. THIS DRAWING SHALL BE READ IN CONJUNCTION WITH ELECTRICAL SPECIFICATION AND SCHEDULES AS WELL AS MARITIME, LANDSCAPE, ARCHITECTURE AND OTHER TRADES' DOCUMENTATION.
3. LIGHTING CALCULATION SUMMARY IS BASED ON THE LIGHTING LAYOUTS SHOWN ON DRAWINGS AND WITH NOMINATED LUMINAIRE TYPES.

LIGHTING CONTROL STRATEGY

LOCATION/AREA	CONTROL DEVICE	OPERATING HOURS (I.E 4AM-10:55PM)	NIGHT TRANSITION PERIOD (I.E. 10:55PM-11PM)	AFTER HOURS (I.E. 11PM-3:55AM)	MORNING TRANSITION PERIOD (I.E. 3:55AM-4:00AM)
PONTOONS (EXCEPT WAYFINDING LUMINAIRES), GANGWAY, JETTY, SHELTERED WAITING AREAS AND COVERED WALKWAYS / RAMPS / STAIRS	TIME SCHEDULE	ALL LIGHTS ON TO REQUIRED LUX LEVELS*	DIM LUMINAIRES TO OFF OVER 5 MINS	ALL LIGHTS OFF	INCREASE LIGHTING TO REQUIRED LUX LEVEL OVER 5 MINS
	MOTION SENSOR	-	UPON DETECTION - ALL LIGHTS TO GRADUALLY INCREASE TO REQUIRED LUX LEVEL* OVER 10 SEC AND MAINTAIN ON TO END OF TRANSITION PERIOD.	UPON DETECTION - ALL LIGHTS ON TO 30% OF REQUORED LUX LEVELS*. WITH CONTINUED MOTION DETECTION, GRADUALLY INCREASE LIGHTING TO 50% OF REQUIRED LUX LEVELS OVER 10 SEC. AFTER 5 MINS OF NO DETECTION, GRADUALLY DIM	UPON DETECTION - ALL LIGHTS TO GRADUALLY INCREASE TO REQUIRED LUX LEVEL* OVER 10 SEC AND MAINTAIN ON TO END OF TRANSITION PERIOD.
	PE CELL	ALL LIGHTS DIM WITH DAYLIGHT TO MAINTAIN REQUIRED LUX LEVEL*	-	-	-
PONTOON WAYFINDING LUMINAIRES	TIME SCHEDULE	WAYFINDING LUMINAIRES ON TO REQUIRED LUX LEVELS*	WAYFINDING LUMINAIRES REMAIN ON	WAYFINDING LUMINAIRES REAMIN ON	WAYFINDING LUMINAIRES REMAIN ON
	PE CELL	LIGHTS TO DIM WITH DAYLIGHT TO MAINTAIN REQUIRED LUX LEVEL*	-	-	
UNCOVERED DDA RAMP & STAIRS ON LANDSIDE (POLE LIGHTING)	TIME SCHEDULE	ALL LIGHTS ON TO REQUIRED LUX LEVELS*	DIM LUMINAIRES TO OFF OVER 5 MINS	ALL LIGHTS OFF	INCREASE LIGHTING TO REQUIRED LUX LEVEL OVER 5 MINS
	PE CELL	LIGHTS TO DIM WITH DAYLIGHT TO MAINTAIN REQUIRED LUX LEVEL*	-	-	-
* REQUIRED LUX LEVEL IS DEFINED IN THE CALCULATION SUMMARY AS COMPLIANT WITH TRANSLINK LIGHTING STANDARDS, AS/NZS 1158, AS/NZS 1680 AND AS 1428. ELECTRICAL CONTRACTOR SHALL ALLOW TO MEASURE LUX LEVELS DURING COMMISSIONING TO ENSURE MAINTAINED AVERAGE ILLUMINANCE AND UNIFORMITY IS ACHIEVED INCLUDING THE					

3	ISSUED FOR TENDER		14-08-20	
2	PRELIMINARY DESIGN RE-ISSUE		19-12-19	
1	PRELIMINARY DESIGN ISSUE		28-11-19	
	Revisions/Descriptions	Certification	Date	Microfiled

Associated Job Nos

Auxiliary Drg Nos

Survey Data: Datum GDA94; Horiz. Grid MGA Z56; Height Origin AHD; Survey Books

Scales

Dimensions shown in millimetres except where shown otherwise

SOUTHERN MORETON BAY
SOUTHERN MORETON BAY ISLANDS
KARRAGARRA ISLAND

FERRY TERMINALS DESIGN

Drawn J.G. | Checked L.T. | Designed R.B. | Design Review | Date 31-07-2020

ELECTRICAL

LIGHTING CALCULATION SUMMARY AND CONTROL STRATEGY

ENGINEERING CERTIFICATION (RPEQ)

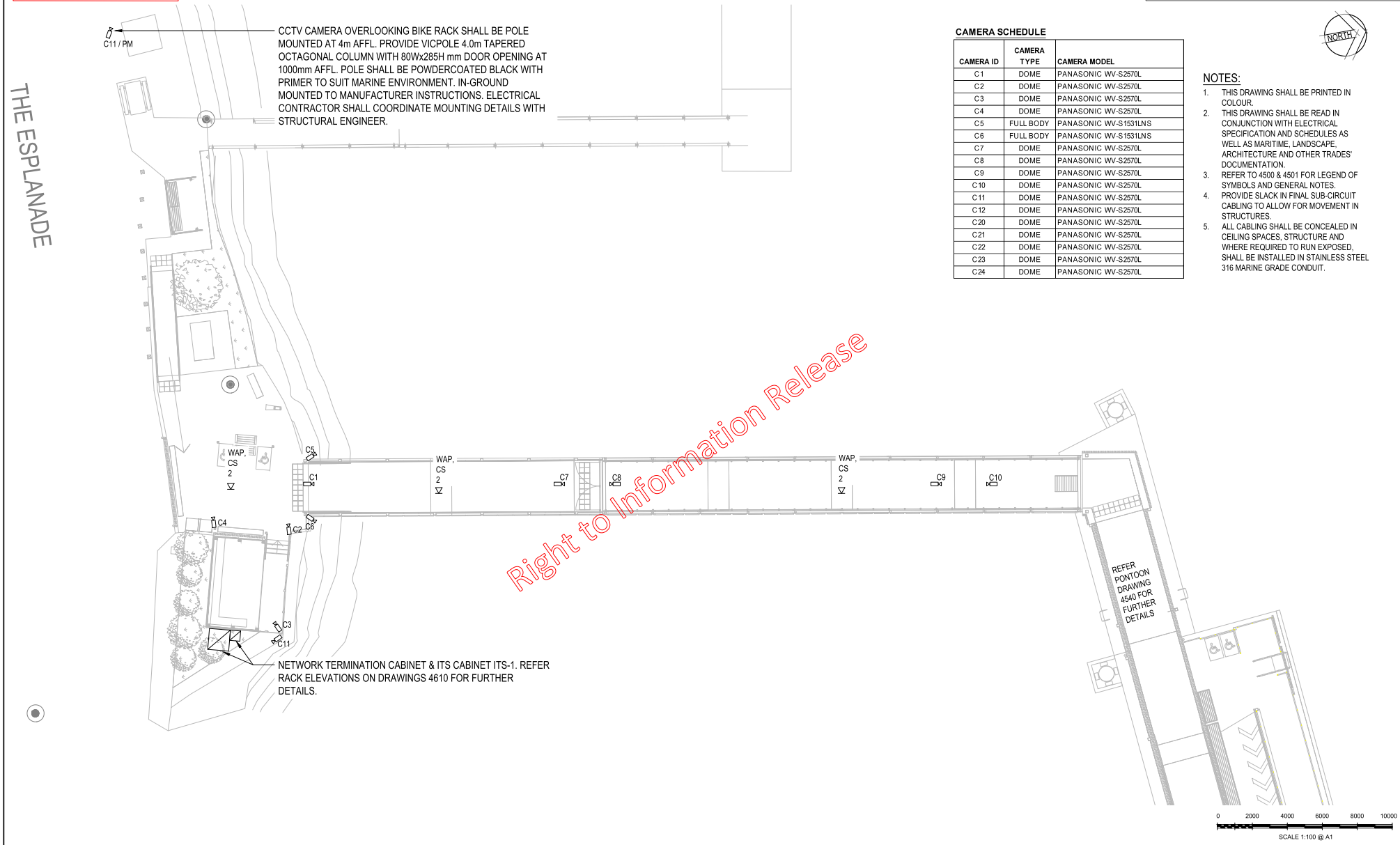
ENG. AREA	NAME	SIGNATURE	NO.	DATE
ELECTRICAL				31-07-2020

Queensland Government

File No.	467/00408
Contract. No.	CN-12653
Drawing No.	4515 3
Project No.	TMR29-130
MRM_Detail (05/14)	BN-70-1-1

ISSUE FOR TENDER

Cardno architectus



CAMERA SCHEDULE

CAMERA ID	CAMERA TYPE	CAMERA MODEL
C1	DOME	PANASONIC WV-S2570L
C2	DOME	PANASONIC WV-S2570L
C3	DOME	PANASONIC WV-S2570L
C4	DOME	PANASONIC WV-S2570L
C5	FULL BODY	PANASONIC WV-S1531LNS
C6	FULL BODY	PANASONIC WV-S1531LNS
C7	DOME	PANASONIC WV-S2570L
C8	DOME	PANASONIC WV-S2570L
C9	DOME	PANASONIC WV-S2570L
C10	DOME	PANASONIC WV-S2570L
C11	DOME	PANASONIC WV-S2570L
C12	DOME	PANASONIC WV-S2570L
C20	DOME	PANASONIC WV-S2570L
C21	DOME	PANASONIC WV-S2570L
C22	DOME	PANASONIC WV-S2570L
C23	DOME	PANASONIC WV-S2570L
C24	DOME	PANASONIC WV-S2570L

NORTH

NOTES:

1. THIS DRAWING SHALL BE PRINTED IN COLOUR.
2. THIS DRAWING SHALL BE READ IN CONJUNCTION WITH ELECTRICAL SPECIFICATION AND SCHEDULES AS WELL AS MARITIME, LANDSCAPE, ARCHITECTURE AND OTHER TRADES' DOCUMENTATION.
3. REFER TO 4500 & 4501 FOR LEGEND OF SYMBOLS AND GENERAL NOTES.
4. PROVIDE SLACK IN FINAL SUB-CIRCUIT CABLING TO ALLOW FOR MOVEMENT IN STRUCTURES.
5. ALL CABLING SHALL BE CONCEALED IN CEILING SPACES, STRUCTURE AND WHERE REQUIRED TO RUN EXPOSED, SHALL BE INSTALLED IN STAINLESS STEEL 316 MARINE GRADE CONDUIT.

	Revisions/Descriptions	Certification	Date	Microfiled
5	REVISED ISSUE FOR TENDER		31-08-20	
4	ISSUED FOR TENDER		14-08-20	
3	PRELIMINARY DESIGN RE-ISSUE		19-12-19	
2	PRELIMINARY DESIGN ISSUE		08-11-19	
1	ISSUE FOR INTERNAL REVIEW - QS		25-10-19	

Associated Job Nos

Auxiliary Drg Nos

Survey Data: Datum GDA94; Horiz. Grid MGA Z56; Height Origin AHD; Survey Books

Scales

Dimensions shown in millimetres except where shown otherwise

SOUTHERN MORETON BAY
SOUTHERN MORETON BAY ISLANDS
KARRAGARRA ISLAND

FERRY TERMINALS DESIGN

Drawn J.G.
Checked L.T.
Designed R.B.
Design Review
Date 31-07-2020

ELECTRICAL
LANDSIDE AND JETTY
SECURITY AND COMMUNICATIONS LAYOUT

ENGINEERING CERTIFICATION (RPEQ)

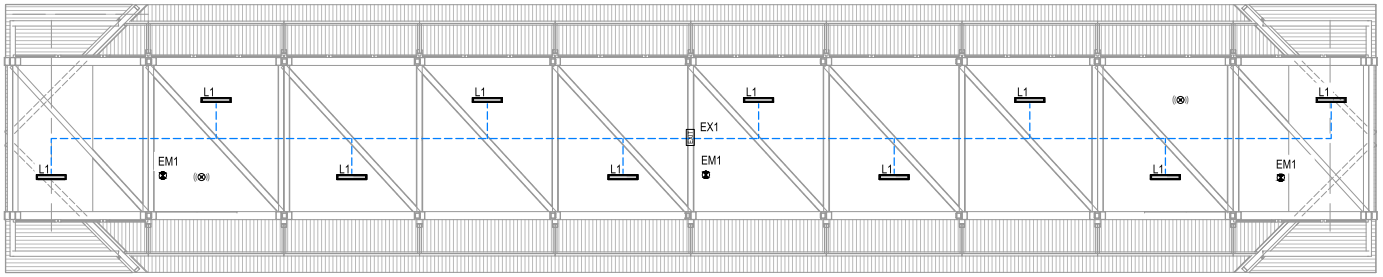
ENG. AREA	NAME	SIGNATURE	NO.	DATE
ELECTRICAL				31-07-2020

Queensland Government

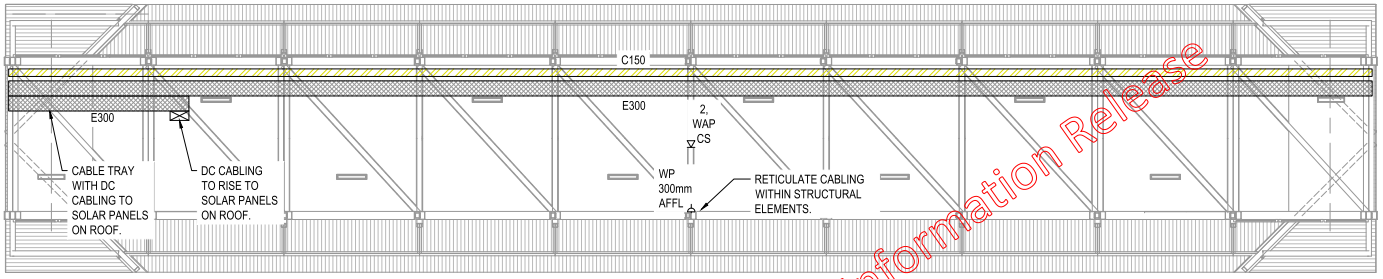
File No.	467/00408
Contract. No.	CN-12653
Drawing No.	4520 5
Project No.	TMR29-130
MRM_Detail (05/14)	BN-70-1-1

ISSUE FOR TENDER

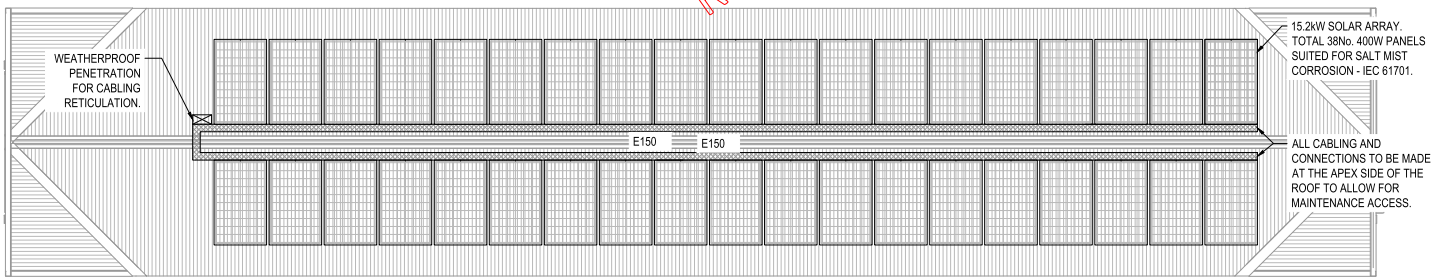
Cardno architectus



LIGHTING LAYOUT



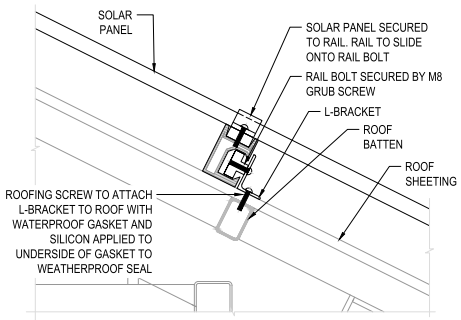
POWER & COMMUNICATIONS LAYOUT



ROOF LAYOUT

NOTES:

1. REFER DRAWINGS 4500 & 4501 FOR LEGEND OF SYMBOLS AND GENERAL NOTES.
2. REFER TO SITE PLAN DRAWINGS 4502 & 4503 FOR GANGWAY LOCATION RELATIVE TO JETTY STRUCTURE.
3. ELECTRICAL CABLING TO BE PROVIDED WITH SLACK TO ALLOW FOR MOVEMENT IN STRUCTURES. COORDINATE CABLE TRAY RUNS WITH CEILING SUPPORTS AND STRUCTURE.
4. ELECTRICAL CABLE TRAYS SHALL BE RETICULATED WITHIN GANGWAY CEILING CAVITY AND SUSPENDED FROM THE CEILING STRUCTURE. PROVIDE LANYARDS AND SECONDARY SUPPORTS TO DETER SWAYING.
5. PROVIDE NEMA 2 SPLICE PLATES AT THE JOINT BETWEEN GANGWAY AND ADJACENT STRUCTURES TO ALLOW FOR MOVEMENT IN THE STRUCTURES.
6. REFER TO ARCHITECTURAL DRAWINGS FOR MAINTENANCE ACCESS HATCH AND WALKWAY ON GANGWAY ROOF.
7. REFER SECURITY & COMMUNICATIONS LAYOUTS FOR CCTV CAMERA LOCATIONS.



SOLAR PANEL FIXING DETAIL

SCALE: 1:5

0 1000 2000 3000 4000 5000

SCALE 1:50

4	ISSUED FOR TENDER		14-08-20	
3	PRELIMINARY DESIGN RE-ISSUE		19-12-19	
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1	ISSUE FOR INTERNAL REVIEW - QS		25-10-19	
`	Revisions/Descriptions	Certification	Date	Microfiled

Associated Job Nos

Auxiliary Drg Nos

Survey Data: Datum GDA94; Horiz. Grid MGA Z56; Height Origin AHD; Survey Books

Scales

Dimensions shown in millimetres except where shown otherwise

SOUTHERN MORETON BAY
SOUTHERN MORETON BAY ISLANDS
KARRAGARRA ISLAND

FERRY TERMINALS DESIGN

Drawn J.G.
Checked L.T.
Designed R.B.
Design Review
Date 31-07-2020

ELECTRICAL
GANGWAY
LIGHTING, POWER AND COMMUNICATIONS LAYOUT

ENGINEERING CERTIFICATION (RPEQ)

ENG. AREA	NAME	SIGNATURE	NO.	DATE
ELECTRICAL				31-07-2020

Queensland Government

File No.	467/00408
Contract. No.	CN-12653
Drawing No.	4530 | 4
Project No.	TMR29-130
MRM_Detail (05/14)	BN-70-1-2

ISSUE FOR TENDER

Cardno architectus

NOTES:

1. THIS DRAWING SHALL BE PRINTED IN COLOUR.
2. THIS DRAWING SHALL BE READ IN CONJUNCTION WITH ELECTRICAL SPECIFICATION AND SCHEDULES AS WELL AS MARITIME, LANDSCAPE, ARCHITECTURE AND OTHER TRADES' DOCUMENTATION.
3. REFER DRAWING TO 4500 & 4501 FOR LEGEND OF SYMBOLS AND GENERAL NOTES.
4. REFER TO SITE PLAN DRAWINGS FOR PONTOON LOCATION RELATIVE TO THE SITE.
5. ELECTRICAL CABLING SHALL BE PROVIDED WITH SLACK TO ALLOW FOR MOVEMENT BETWEEN STRUCTURES.
6. WAYFINDING LUMINAIRE. REFER LIGHTING CONTROL STRATEGY FOR OPERATION AND CONTROL OF LUMINAIRE.
7. ALL CABLING SHALL BE CONCEALED WITHIN CEILING CAVITY. WHERE REQUIRED TO RETICULATE TO LOW LEVEL, CABLING SHALL BE RETICULATED WITHIN STRUCTURAL AND ARCHITECTURAL ELEMENTS AS FAR AS PRACTICAL. WHERE REQUIRED, PROVIDE ABB ADAPTAFLEX TYPE PA HEAVYWEIGHT NON-METALLIC CONDUIT TO RETICULATE CABLING. PAINT TO MATCH SURROUNDING.
8. REFER CAMERA SCHEDULE ON SECURITY AND COMMUNICATIONS LAYOUT FOR CCTV CAMERA SPECIFICATIONS.

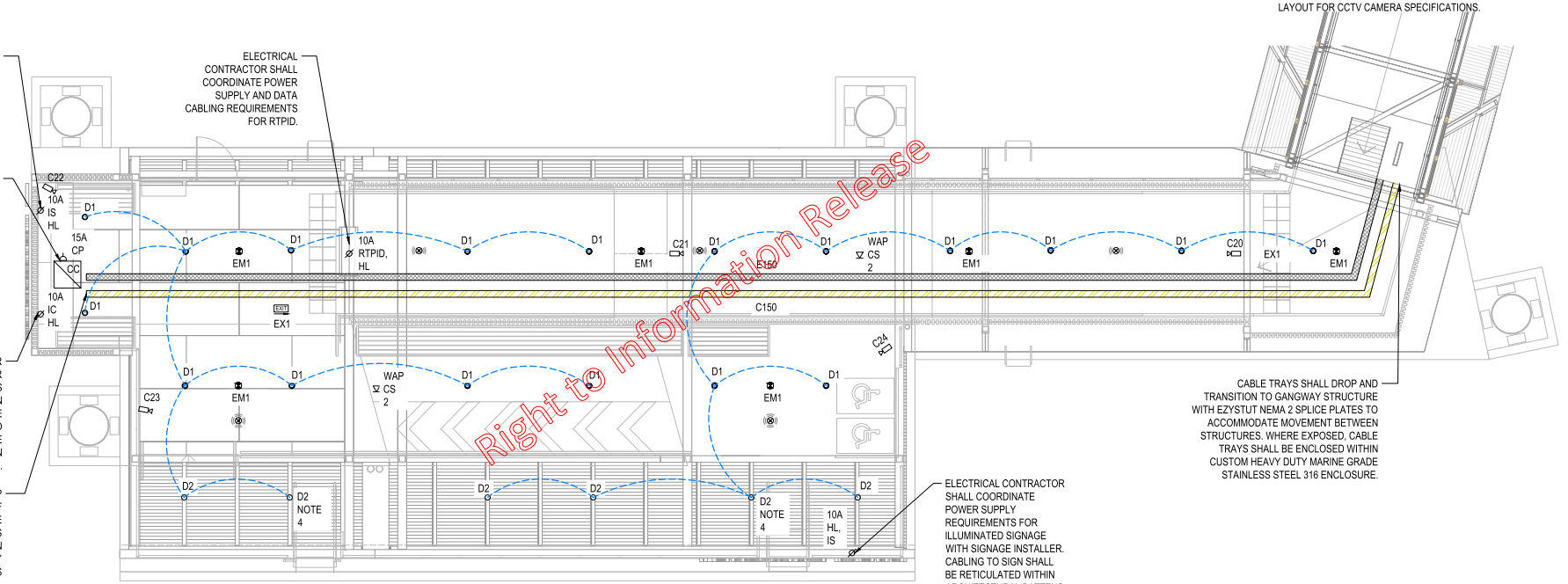
ELECTRICAL CONTRACTOR SHALL COORDINATE POWER SUPPLY REQUIREMENTS FOR ILLUMINATED SIGNAGE WITH SIGNAGE INSTALLER. CABLING TO SIGN SHALL BE RETICULATED WITHIN ARCHITECTURAL BATTENS.

INTERMEDIATE ITS CABINET (ITS-2) MOUNTED AT HIGH LEVEL (2400mm AFFL). PROVIDE 15A CAPTIVE SCREW PLUG OUTLET WITHIN A LOCKABLE ENCLOSURE SURFACE MOUNTED TO THE SIDE OF THE COMMUNICATIONS CABINET. ALL CABLING SHALL BE CONCEALED. REFER RACK ELEVATIONS FOR FURTHER DETAILS.

ELECTRICAL CONTRACTOR SHALL COORDINATE POWER SUPPLY REQUIREMENTS FOR INFORMATION CABINETS WITH SIGNAGE INSTALLER. CABLING TO CABINET SHALL BE RETICULATED WITHIN ARCHITECTURAL BATTENS.

CABLE TRAYS SHALL DROP TO LOWER ROOF STRUCTURE. WHERE EXPOSED, CABLE TRAYS SHALL BE ENCLOSED WITHIN CUSTOM HEAVY DUTY MARINE GRADE STAINLESS STEEL 316 ENCLOSURE.

ELECTRICAL CONTRACTOR SHALL COORDINATE POWER SUPPLY AND DATA CABLING REQUIREMENTS FOR RTPID.



Right to Information Release

CABLE TRAYS SHALL DROP AND TRANSITION TO GANGWAY STRUCTURE WITH EZYSTUT NEMA 2 SPLICE PLATES TO ACCOMMODATE MOVEMENT BETWEEN STRUCTURES. WHERE EXPOSED, CABLE TRAYS SHALL BE ENCLOSED WITHIN CUSTOM HEAVY DUTY MARINE GRADE STAINLESS STEEL 316 ENCLOSURE.

ELECTRICAL CONTRACTOR SHALL COORDINATE POWER SUPPLY REQUIREMENTS FOR ILLUMINATED SIGNAGE WITH SIGNAGE INSTALLER. CABLING TO SIGN SHALL BE RETICULATED WITHIN ARCHITECTURAL BATTENS.

0 1000 2000 3000 4000 5000

SCALE 1:50

2	REVISED ISSUE FOR TENDER		31-08-20	
1	ISSUED FOR TENDER		14-08-20	
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Associated Job Nos

Auxiliary Drg Nos

Survey Data: Datum GDA94; Horiz. Grid MGA Z56; Height Origin AHD; Survey Books

Scales

Dimensions shown in millimetres except where shown otherwise

SOUTHERN MORETON BAY
SOUTHERN MORETON BAY ISLANDS
KARRAGARRA ISLAND

FERRY TERMINALS DESIGN

Drawn J.G.
Checked L.T.
Designed R.B.
Design Review
Date. 31-07-2020

ELECTRICAL
PONTOON
LIGHTING, POWER AND COMMUNICATIONS LAYOUT

ENGINEERING CERTIFICATION (RPEQ)

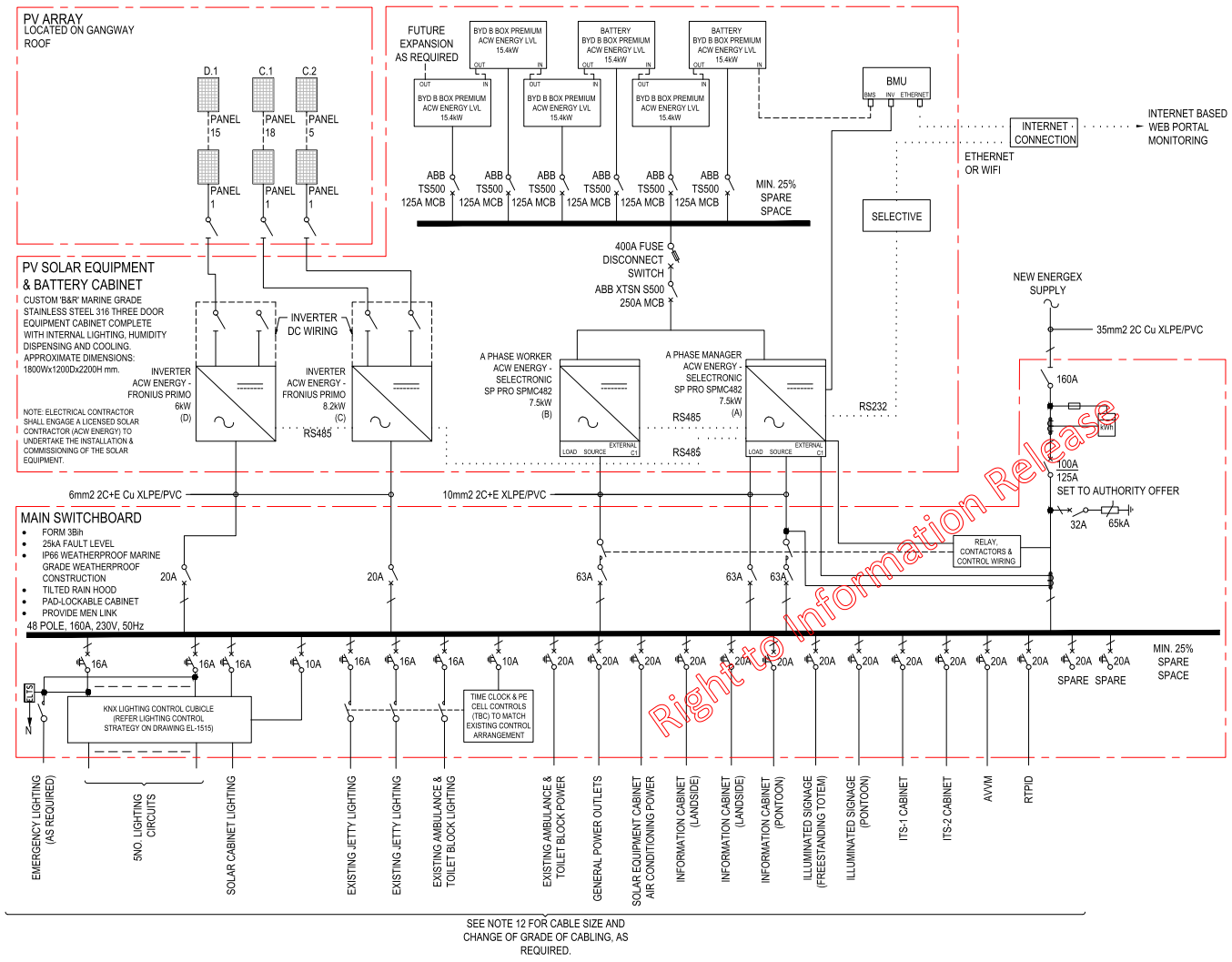
ENG. AREA	NAME	SIGNATURE	NO.	DATE
ELECTRICAL				31-07-2020

Queensland Government

File No.	467/00408
Contract. No.	CN-12653
Drawing No.	4540 | 2
Project No.	TMR29-130
MRM_Detail (05/14)	BN-70-1-1

ISSUE FOR TENDER

Cardno architectus



SINGLE LINE DIAGRAM

NOTES:

1. THIS DRAWING SHALL BE PRINTED IN COLOUR.
2. THIS DRAWING SHALL BE READ IN CONJUNCTION WITH ELECTRICAL SPECIFICATION AND SCHEDULES AS WELL AS MARITIME, LANDSCAPE, ARCHITECTURE AND OTHER TRADES' DOCUMENTATION.
3. REFER TO 4500 & 4501 FOR LEGEND OF SYMBOLS AND GENERAL NOTES.
4. MINIATURE CIRCUIT BREAKERS SHALL BE 'SCHNEIDER ACTI9' TYPE, SUITED TO THE MARINE ENVIRONMENT.
5. ALL SUB-CIRCUITS SHALL BE PROVIDED WITH 'POWER TAG' ENERGY SENSORS FOR METERING AND MONITORING, CONNECTED TO 'ACTI9 SMARTLINK' MODULE. PROVIDE ALL CABLING AND CONNECTIONS AS REQUIRED TO ENABLE REMOTE MONITORING OF SUB-CIRCUITS.
6. PROVIDE SERVICE PROTECTION DEVICE (SPD) AS DEFINED BY THE AUTHORITY REGULATIONS. CONTRACTOR TO CONFIRM WITH CITIPOWER.
7. THE SCHEMATIC IS INDICATIVE ONLY AND REPRESENTS THE INTENTION OF HOW THE SWITCHBOARD SHALL OPERATE.
8. THE ELECTRICAL CONTRACTOR SHALL SUBMIT SHOP DRAWINGS AND A DISCRIMINATION STUDY FOR REVIEW BY THE CONSULTANT PRIOR TO MANUFACTURE OF THE SWITCHBOARDS.
9. THE EARTHING SYSTEM SHALL COMPLY TO AS/NZS 3000 REQUIREMENTS.
10. ELECTRICAL SUPPLY REQUESTS HAVE BEEN SUBMITTED TO ENERGEX. CONTRACTOR SHALL LIAISE WITH ENERGEX AND COORDINATE AND CONFIRM ALL WORKS TO PROVIDE ELECTRICAL SUPPLY TO THE SITES IN ACCORDANCE WITH AUTHORITY REGULATIONS AND RELEVANT STANDARDS.
11. CABLE SIZES ARE INDICATIVE AND ARE SUBJECT TO FINAL CONSUMER MAIN CABLING. CONTRACTOR SHALL UNDERTAKE VOLTAGE DROP AND DISCRIMINATION STUDY CONSIDERING APPROPRIATE DERATING FACTORS TO VERIFY CABLE SIZES PRIOR TO ORDERING.
12. FINAL SUB-CIRCUITS SHALL BE PROVIDED WITH MINIMUM CABLING SIZE AS FOLLOWS:
    POWER SUB-CIRCUITS - 16mm2 2C+E
    LIGHTING SUB-CIRCUITS - 10mm2 2C+E
    ALLOW FOR CHANGE OF GRADE OF CABLING WITHIN IP66 JUNCTION BOXES LOCATED IN CEILING SPACE.
13. PROVIDE A SURFACE MOUNT BATTEN LUMINAIRE WITHIN THE BATTERY CABINET ACTIVATED BY CABINET DOOR SWITCHES. LUMINAIRE SHALL BE THORLUX THOROPROOF ECO LED - 23W OR APPROVED EQUIVALENT.

2	REVISED ISSUE FOR TENDER		31-08-20	
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Associated Job Nos

Auxiliary Drg Nos

Survey Data: Datum GDA94; Horiz. Grid MGA Z56; Height Origin AHD; Survey Books

Scales

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SOUTHERN MORETON BAY
SOUTHERN MORETON BAY ISLANDS
KARRAGARRA ISLAND

FERRY TERMINALS DESIGN

Drawn J.G.
Checked L.T.
Designed R.B.
Design Review
Date. 31-07-2020

ELECTRICAL

ELECTRICAL SCHEMATICS - SHEET 1

ENGINEERING CERTIFICATION (RPEQ)

ENG. AREA	NAME	SIGNATURE	NO.	DATE
ELECTRICAL				31-07-2020

Queensland Government

File No.	467/00408
Contract. No.	CN-12653
Drawing No.	4600 2
Project No.	TMR29-130
MRM_Detail (05/14)	BN-70-1-1

ISSUE FOR TENDER

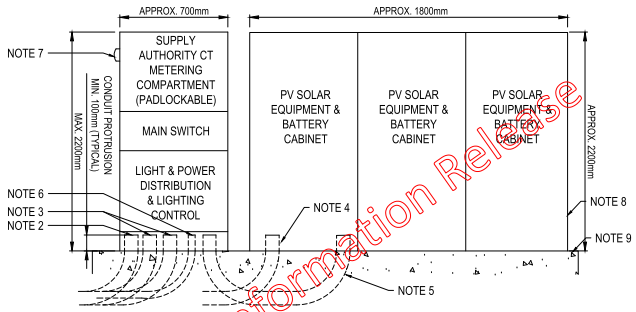
Cardno architectus

MAIN SWITCHBOARD GENERAL ARRANGEMENT NOTES:

1. THE GENERAL ARRANGEMENT IS INDICATIVE ONLY AND REPRESENTS THE INTENTION OF HOW THE SWITCHBOARD SHALL BE LAID OUT.
2. 100mm HD uPVC ELECTRICAL CONDUIT FOR CONSUMER MAIN CABLING
3. HD uPVC ELECTRICAL CONDUITS FOR FINAL SUB-CIRCUIT CABLING. REFER ELECTRICAL SITE PLAN FOR QUANTITY.
4. 100mm HD uPVC ELECTRICAL CONDUIT FOR DC CABLING TO SOLAR ARRAY ON GANGWAY ROOF
5. 100mm HD uPVC ELECTRICAL CONDUIT AND 50mm HD uPVC COMMUNICATIONS CONDUIT BETWEEN MSB AND SOLAR EQUIPMENT CABINETS
6. 50mm HD uPVC COMMUNICATIONS CONDUIT FROM ITS-1
7. PE CELL SHALL BE MOUNTED TO FREE SIDE OF SWITCHBOARD
8. PV SOLAR EQUIPMENT & BATTERY CABINET WITH THREE PADLOCKABLE DOORS HOUSING SOLAR EQUIPMENT, INVERTERS AND BATTERY RACKS.
9. MINIMUM HEIGHT OF CONCRETE PLINTH SHALL BE ABOVE 1:100YEAR FLOOD LEVEL. CONCRETE PLINTH SHALL BE DESIGNED BY A STRUCTURAL ENGINEER. PLINTH SHALL EXTEND A MINIMIM OF 1000mm IN FRONT OF SWITCHBOARD.

NOTES:

1. THIS DRAWING SHALL BE PRINTED IN COLOUR.
2. THIS DRAWING SHALL BE READ IN CONJUNCTION WITH ELECTRICAL SPECIFICATION AND SCHEDULES AS WELL AS MARITIME, LANDSCAPE, ARCHITECTURE AND OTHER TRADES' DOCUMENTATION.
3. REFER TO 4500 & 4501 FOR LEGEND OF SYMBOLS AND GENERAL NOTES.



MAIN SWITCHBOARD GENERAL ARRANGEMENT
N.T.S.

2	REVISED ISSUE FOR TENDER		31-08-20	
1	ISSUED FOR TENDER		14-08-20	
	Revisions/Descriptions	Certification	Date	Microfiled

Associated Job Nos

Auxiliary Drg Nos

Survey Data: Datum GDA94; Horiz. Grid MGA Z56; Height Origin AHD; Survey Books

Scales

Dimensions shown in millimetres except where shown otherwise

SOUTHERN MORETON BAY
SOUTHERN MORETON BAY ISLANDS
KARRAGARRA ISLAND

FERRY TERMINALS DESIGN

Drawn J.G.
Checked L.T.
Designed R.B.
Design Review
Date. 31-07-2020

ELECTRICAL

ELECTRICAL SCHEMATICS - SHEET 2

ENGINEERING CERTIFICATION (RPEQ)

ENG. AREA	NAME	SIGNATURE	NO.	DATE
ELECTRICAL				31-07-2020

Queensland Government

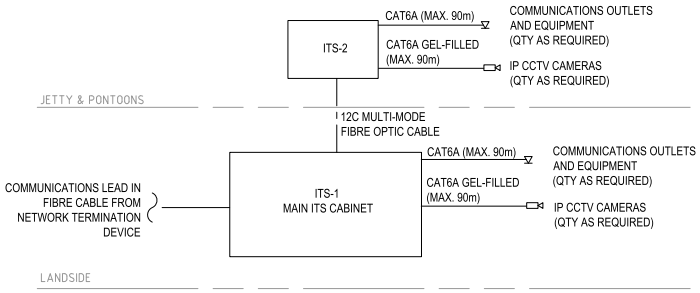
File No.	467/00408
Contract. No.	CN-12653
Drawing No.	4601 2
Project No.	TMR29-130
MRM_Detail (05/14)	BN-70-1-1

ISSUE FOR TENDER

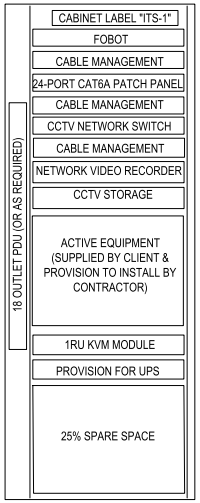
Cardno architectus

NOTES:

1. THIS DRAWING SHALL BE PRINTED IN COLOUR.
2. THIS DRAWING SHALL BE READ IN CONJUNCTION WITH ELECTRICAL SPECIFICATION AND SCHEDULES AS WELL AS MARITIME, LANDSCAPE, ARCHITECTURE AND OTHER TRADES' DOCUMENTATION.
3. REFER TO 4500 & 4501 FOR LEGEND OF SYMBOLS AND GENERAL NOTES.



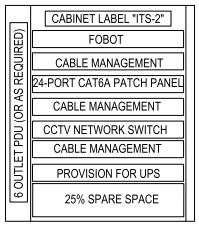
TYPICAL CABLING SCHEMATIC



ITS CABINET ITS-1 WITH FORCED VENTILLATION
SUPPLIER: ANIXTER

CABINET: B&R MARINE GRADE STAINLESS STEEL 316, 45RU, 800Wx1100D mm

ENCLOSURE: B&R MARINE GRADE STAINLESS STEEL 316 KIOSK, PADLOCKABLE, 1200mm (W) x 1200mm (D) x 2200mm (H)

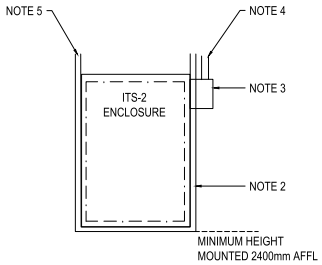


ITS CABINET ITS-2
SUPPLIER: ANIXTER

CABINET: AUSRACK IP STAINLESS STEEL CABINET, 15RU, 800HX 600W X 600D mm

ENCLOSURE: B&R MARINE GRADE STAINLESS STEEL 316 KIOSK, PAD LOCKABLE, 610mm (W) x 610mm (D) x 850mm (H)

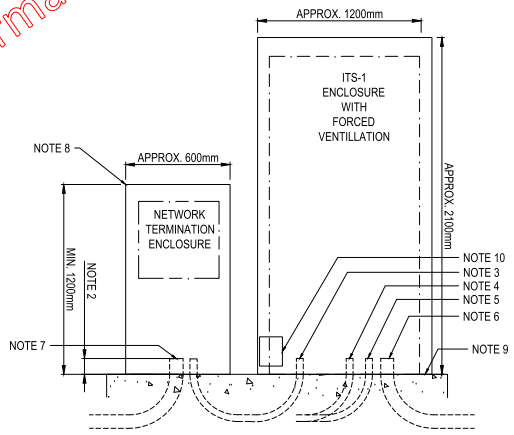
COMMUNICATIONS RACK ELEVATIONS



ITS-2 CABINET GENERAL ARRANGEMENT
N.T.S.

ITS-2 CABINET GENERAL ARRANGEMENT NOTES:

1. THE GENERAL ARRANGEMENT IS INDICATIVE ONLY AND REPRESENTS THE INTENTION OF HOW THE CABINET ENCLOSURE SHALL BE INSTALLED.
2. SUPPORT FRAME IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTION.
3. IP66, IK08 JUNCTION BOX SURFACE MOUNTED TO SIDE OF ENCLOSURE. PROVIDE SEALED PENETRATIONS THROUGH CABINET FOR CABLING PASS THROUGH. PROVIDE CAPTIVE SCREW OUTLET INSIDE JUNCTION BOX.
4. 2x 50mm COMMUNCATIONS AND 1x50mm ELECTRICAL STAINLESS STEEL 316 MARINE GRADE CONDUITS TO TRANSITION TO CABLE TRAY IN CEILING SPACE. PROVIDE SUPPORTS AS REQUIRED.
5. FRAME SHALL BE SUPPORTED FROM STRUCTURE. COORDINATE MOUNTING LOCATION AND DETAILS WITH STRUCTURAL ENGINEER.



NETWORK TERMINATION AND ITS-1 CABINET GENERAL ARRANGEMENT
N.T.S.

NETWORK TERMINATION AND ITS-1 CABINET GENERAL ARRANGEMENT NOTES:

1. THE GENERAL ARRANGEMENT IS INDICATIVE ONLY AND REPRESENTS THE INTENTION OF HOW THE CABINET ENCLOSURES SHALL BE INSTALLED.
2. CONDUITS FOR INCOMING AND OUTGOING CABLING SHALL PROTRUDE MINIMUM 100mm THROUGH CONCRETE PLINTH AND INTO BASE OF THE ENCLOSURE.
3. 50mm HD uPVC ELECTRICAL CONDUIT AND 50mm HD uPVC COMMUNICATIONS CONDUIT BETWEEN ENCLOSURES.
4. 50mm HD uPVC ELECTRICAL CONDUIT FROM MSB
5. 50mm HD uPVC COMMUNICATIONS CONDUIT TO MSB
6. HD uPVC COMMUNICATIONS CONDUITS FOR HORIZONTAL CABLING. REFER COMMUNICATIONS SITE PLAN FOR QUANTITY.
7. CONDUIT FOR LEAD-IN SERVICE INSTALLED IN ACCORDANCE TO TELSTRA / NBN REQUIREMENTS.
8. IP LSK MARINE GRADE STAINLESS STEEL 316 ENCLOSURE COMPLETE WITH WINDOW, PAD LOCKABLE, 1200H X 600W X 600D mm. SUPPLIED BY ANIXTER.
9. MINIMUM HEIGHT OF CONCRETE PLINTH SHALL BE ABOVE 1:100 YEAR FLOOD LEVEL. CONCRETE PLINTH SHALL BE DESIGNED BY A STRUCTURAL ENGINEER. PLINTH SHALL EXTEND A MINIMUM OF 1000mm IN FRONT OF ITS-1 CABINET.
10. PROVIDE CAPTIVE SCREW OUTLET INSIDE ENCLOSURE.

2	REVISED ISSUE FOR TENDER		31-08-20	
1	ISSUED FOR TENDER		14-08-20	
	Revisions/Descriptions	Certification	Date	Microfiled

Associated Job Nos

Auxiliary Drg Nos

Survey Data: Datum GDA94; Horiz. Grid MGA Z56; Height Origin AHD; Survey Books

Scales

Dimensions shown in millimetres except where shown otherwise

SOUTHERN MORETON BAY
SOUTHERN MORETON BAY ISLANDS
KARRAGARRA ISLAND

FERRY TERMINALS DESIGN

Drawn J.G.
Checked L.T.
Designed R.B.
Design Review
Date. 31-07-2020

ELECTRICAL

COMMUNICATIONS AND SECURITY SCHEMATICS

ENGINEERING CERTIFICATION (RPEQ)

ENG. AREA	NAME	SIGNATURE	NO.	DATE
ELECTRICAL				31-07-2020

Queensland Government

File No.	467/00408
Contract. No.	CN-12653
Drawing No.	4610 2
Project No.	TMR29-130
MRM_Detail (05/14)	BN-70-1-1

ISSUE FOR TENDER

Cardno architectus

GENERAL HYDRAULIC NOTES:

1. ALL WORK SHALL BE CARRIED OUT IN ACCORDANCE WITH THE LOCAL CONSTRUCTION CODE, AS/NZS 3500, LOCAL COUNCIL REGULATIONS, SUPERINTENDENT'S APPROVAL AND ALL REGULATORY AUTHORITIES.
2. THIS PLAN SHALL BE READ IN CONJUNCTION WITH APPROVED ARCHITECTURAL, STRUCTURAL AND PLANS AND SPECIFICATIONS.
3. COORDINATE WITH THE STRUCTURE AND OTHER SERVICES, ALLOWING FOR ANY ADDITIONAL WORKS THAT MAY BE REQUIRED TO CO-ORDINATE WITH THESE SERVICES.
4. ALL WORK SHALL BE CARRIED OUT UNDER THE DIRECT SUPERVISION OF A LICENSED PLUMBER. WORK IS ALSO TO BE COORDINATED WITH SUPERINTENDENT.
5. EXISTING SERVICES HAVE BEEN PLOTTED FROM SUPPLIED DATA. THERE IS NO GUARANTEE FOR THE ACCURACY OF THE DOCUMENTS AND IT IS THE CONTRACTORS RESPONSIBILITY TO ESTABLISH THE LOCATION OF ALL EXISTING SERVICES PRIOR TO COMMENCEMENT OF ANY WORK. CLEARANCES SHALL BE OBTAINED FROM THE RELEVANT AUTHORITY.
6. ALL SERVICES THAT CROSS PAVEMENTS, FOOTINGS ETC SHALL BE BACKFILLED WITH GRANULAR MATERIAL TO SUBGRADE LEVEL AND COMPACTED TO 95% M.M.D.D
7. ON COMPLETION OF PIPE INSTALLATION, ALL DISTURBED AREAS MUST BE RESTORED TO ORIGINAL CONDITION INCLUDING KERBS, FOOTPATHS, CONCRETE AREAS, GRAVEL AREAS, GRASSED AREAS AND ROAD PAVEMENTS. TRENCHES THROUGH EXISTING ROAD AND CONCRETE AREAS SHALL BE SAWCUT TO FULL DEPTH OF CONCRETE AND A MINIMUM OF 50MM IN BITUMINOUS PAVING. REINSTATE WITH ADDITIONAL REINFORCEMENT & DOWELLING AS REQUIRED BY STRUCTURAL ENGINEER.
8. WHERE NEW WORK ABUTS EXISTING, ENSURE THAT A SMOOTH EVEN PROFILE, FREE FROM ABRUPT CHANGES IS OBTAINED.
9. OBTAIN ALL AUTHORITY APPROVALS.
10. ALL OF THE PLUMBING & DRAINAGE WORKS SHALL BE IN ACCORDANCE WITH AS/NZS 3500:2018, 'THE PLUMBING & DRAINAGE ACT OF 2018' & ALL CURRENT AMENDMENTS, AND THE RELEVANT STATE BY-LAWS.
11. ALLOW TO SUPPLY ALL THE MATERIALS NECESSARY FOR THE WORK DOCUMENTED ON THESE DRAWINGS. ALL PIPE MATERIAL FITTINGS & OTHER ASSOCIATED ACCESSORIES SHALL CONFORM WITH THE REQUIREMENTS OF THE STANDARDS ASSOCIATION OF AUSTRALIA & THE COUNCIL BUILDING & PLUMBING INSPECTORS. CONSISTENT BRAND NAMES SHALL BE USED THROUGHOUT THE PROJECT.
12. THE DRAWING/S DEPICT THE INSTALLATION DIAGRAMMATICALLY AND ARE NOT TO BE SCALED. SET OUT ALL WORK TO SUIT ACTUAL ON SITE DIMENSIONS.
13. EXACT SIZE AND LOCATION OF STRUCTURAL PENETRATIONS SHALL BE DETERMINED ON SITE IN ACCORDANCE WITH STRUCTURAL ENGINEERS REQUIREMENTS.
14. DO NOT SCALE DRAWINGS. REFER TO ARCHITECTURAL DRAWINGS FOR ALL SET-OUT DIMENSIONS. READ THESE DRAWINGS IN CONJUNCTION WITH ARCHITECTURAL DRAWINGS AND SPECIFICATIONS FOR FINAL POSITION OF FITTINGS AND FIXTURES.
15. THESE DRAWINGS ARE A GUIDE ONLY FOR THE POSITION, LAYOUT AND SIZING OF EXISTING SERVICES. ANY EXISTING PIPEWORK ON THESE DRAWINGS IS SHOWN IN ACCORDANCE WITH THE INFORMATION AVAILABLE AND NO RESPONSIBILITY WILL BE ACCEPTED FOR THE CORRECT LOCATIONS. VERIFY THE POSITIONS OF ALL WASTE PIPES AND SERVICE LINES AND CHECK THAT THE INVERT AND SURFACE LEVELS, COVER AND BACKFILL COMPACTION ARE CORRECT BEFORE COMMENCING WORK.
16. PAY ALL FEES IN CONNECTION WITH APPROVALS, CONSTRUCTION COSTS, DESIGN COSTS, TESTS AND INSPECTIONS THAT ARE REQUIRED.
17. CARRY OUT ALL THE NECESSARY TESTING OF SERVICES, AS REQUIRED BY AS/NZS 3500 AND THE RELEVANT AUTHORITIES.
18. OBTAIN FROM ALL NECESSARY CONTROLLING AUTHORITIES, CERTIFICATES SHOWING SATISFACTORY COMPLETION OF ALL SERVICES DOCUMENTED ON THESE DRAWINGS.
19. VALVE TAGS: PROVIDE MELAMINE DISCS SUITABLY SIZED FOR 5MM HIGH LETTERS, CLEARLY IDENTIFYING THE ISOLATION AREA. KEY RING TO VALVE HANDLES.
20. CO-ORDINATE POWER REQUIREMENT AND INTERFACE POINTS WITH ELECTRICAL SUBCONTRACTOR FOR ALL PUMP CONTROL PANELS.
21. WHERE POTENTIALLY CONTAMINATED IS UNCOVERED IN EXCAVATION FOR LAYING OF HYDRAULIC SERVICES PIPEWORK, THE MATTER SHOULD BE DIRECTED THE SUPERINTENDENT.
22. LABEL ALL PIPEWORK USING SELF-ADHESIVE VINYL MARKERS, SHOWING FLOW AND RETURN INDICATORS WHERE APPLICABLE, IN ACCORDANCE WITH AS1345.
23. ALL WATER PIPE SIZING NOMINATED WITHIN THIS DRAWING SET IS BASED ON TYPE "B" COPPER INTERNAL DIMENSIONS. WHERE ALTERNATE MATERIALS ARE USED THE CONTRACTOR SHALL ALLOW FOR EQUIVALENT PIPE SIZE TO AS/NZS3500.1 REQUIREMENTS

WATER, FIRE & DRAINAGE SERVICES NOTES:

1. ALL WATER & FIRE SERVICES PIPEWORK RUN ABOVE GROUND (INCLUDING FLEXIBLE JOINTS) SHALL BE MINIMUM 316 S/STEEL IN ACCORDANCE WITH ASTM A312, ASME B36.19M AND AS 5200 REQUIREMENTS. WITH PRESS FIT FITTINGS UNLESS NOTED OTHERWISE.
2. ALL WATER & FIRE SERVICES PIPEWORK RUN BELOW GROUND SHALL BE PE,PN16 IN ACCORDANCE WITH AS4130 REQUIREMENTS. WITH MECHANICAL COMPRESSION FITTINGS FOR 20mm DIA TO 25mm DIA AND FUSION WELDED JOINTS FOR 32mm DIA TO 150mm DIA.
3. ALL WATER & FIRE SERVICES PIPES TO BE LAID IN STRAIGHT TRENCHES ON 75mm SAND BEDDING WITH 200mm SAND OVERLAY. MINIMUM DEPTH OF ALL WATER SERVICES SHALL BE 450mm AND MINIMUM DEPTH OF FIRE SERVICES SHALL BE 600mm BELOW FINISHED GROUND LEVEL.
4. LAY SERVICE WARNING TAPE OVER ALL WATER SERVICES 300mm ABOVE TOP OF PIPE.
5. PIPES BENT WITH MECHANICAL EQUIPMENT SHALL BE FREE OF KINKS OR PIPE DISTORTIONS ANY KINKED SECTIONS OF PIPE WILL BE REJECTED.
6. ALL WATER SUPPLY PIPEWORK INDICATED IS LOCATED INGROUND UNLESS NOTED OTHERWISE.
7. ALL ISOLATION VALVES SHALL BE PLACED IN ACCESSIBLE POSITIONS
8. "DO NOT DRINK" IDENTIFICATION SIGNAGE NOTICE TO BE INSTALLED ADJACENT ALL NON-DRINKING WATER OUTLETS OR "SAFETY MAN" ADHESIVE LABEL TYPE TO RELEVANT STANDARDS AND USERS REQUIREMENTS.
9. ENSURE ALL BACKFLOW PREVENTION DEVICES ARE PROVIDED WHERE REQUIRED - INSTALLED IN ACCORDANCE WITH AS/NZS 3500.1:2018 SECTION 4.6 & THE REQUIREMENTS OF COUNCIL.
10. ALL PIPEWORK RUN ABOVE GROUND ON GANGWAY & PONTOON WHERE SUBJECT TO RADIANT HEAT SHALL BE LAGGED IN 13mm CLOSED CELL POLYMER WITH METAL SHEATHING
11. ALL STEEL ABOVE GROUND PIPEWORK SHALL BE SUPPORTED WITH BRACKET AND CLIPS IN ACCORDANCE WITH AS3500.1:2018 TABLE 5.6.4 REQUIREMENT. MAXIMUM SPACINGS OF BRACKETS AND CLIPS SHALL BE AS FOLLOWS
    - 25mm S/STEEL PIPEWORK, 2m
    - 32mm S/STEEL PIPEWORK, 2.5m
    -100mm S/STEEL PIPEWORK, 3m
    -150mm S/STEEL PIPEWORK, 3m
12. TESTING AND COMMISSIONING OF WATER SERVICES SHALL BE CARRIED OUT IN ACCORDANCE WITH AS3500.1:2018 SECTION 18 REQUIREMENTS. ALL PIPEWORK SHALL BE HYDROSTATIC PRESSURE TESTED TO MINIMUM 1,500kPa FOR A DURATION OF 20min
13. TESTING AND COMMISSIONING OF FIRE SERVICES SHALL BE CARRIED OUT IN ACCORDANCE WITH AS2419.1:2005 SECTION 10 REQUIREMENTS. ALL PIPEWORK SHALL BE HYDROSTATICALLY PRESSURE TESTED TO MINIMUM 1.700kPa FOR A DURATION OF 2 HOURS.
14. FLEXIBLE JOINTS MANUFACTURED IN MINIMUM 316 S/STEEL SHALL BE PROVIDED ON ALL WATER, FIRE SERVICES AT MOVEMENT LOCATIONS ALONG THE GANGWAY AND PONTOON.
15. REFER TO ARCHITECTS SPECIFICATION FOR MATERIAL SELECTION OF DOWNPIPES
16. ALL STORMWATER DRAINAGE SHALL BE INSTALLED IN ACCORDANCE WITH AS3500.2:2018 REQUIREMENTS
17. IN GROUND STORMWATER DRAINAGE SHALL BE INSTALLED IN UPVC SN6 TO AS/NZS 1260 REQUIREMENTS WITH SOLVENT WELDED JOINTS. ALL JOINTS SHALL BE PRIMED WITH PRIMING FLUID PRIOR TO SOLVENT WELDING.
18. ALL SANITARY PLUMBING AND DRAINAGE SHALL BE INSTALLED IN ACCORDANCE WITH AS3500.2:2018 REQUIREMENTS
19. SANITARY PLUMBING AND DRAINAGE SHALL BE INSTALLED IN UPVC SN6 TO AS/NZS 1260 REQUIREMENTS WITH SOLVENT WELDEN JOINTS. ALL JOINTS SHALL BE PRIMED WITH PRIMING FLUID PRIOR TO SOLVENT WELDING. WHERE DRAINAGE CONNECTS TO FIXTURES ABOVE GROUND IN A VISIBLE LOCATION THE PIPEWORK SHALL BE INSTALLED IN CHROME PLATED BRASS

HYDRAULIC SERVICES NOTES:

SITE WORK NOTES:

1. COMMON TRENCHING. LIAISE WITH ALL OTHER TRADES TO PROVIDE COMMON SERVICES TRENCHING ACROSS THE ENTIRE SITE WHERE PRACTICABLE. ENSURE ALL NECESSARY CLEARANCES, ALLOWANCES AND BACKFILLING IS PROVIDED.
2. VERIFY ALL DIMENSIONS AND EXISTING LEVELS ON SITE PRIOR TO COMMENCEMENT OF WORK.
3. ALL TRENCH BACKFILL MATERIAL SHALL BE COMPACTED TO THE SAME DENSITY AS THE ADJACENT MATERIAL.
4. ALL SERVICE TRENCHES UNDER VEHICULAR PAVEMENTS SHALL BE BACKFILLED WITH SAND OR AN APPROVED GRANULAR MATERIAL AND COMPACTED TO 98% STANDARD MAXIMUM DRY DENSITY IN ACCORDANCE WITH AS 1289 E1.1.
5. PROTECT ALL UNDERGROUND METAL PIPEWORK FROM CORROSION WITH TWO (2) LAYERS OF 'TAKI' WRAP OR 'DENSO' WRAP.
6. ALL SERVICE TRENCHES SHALL COMPLY WITH AS 3798 'GUIDELINES ON EARTHWORKS'. PARTICULARLY NOTE SECTION 5 - COMPACTION CRITERIA.
7. CARE SHALL BE TAKEN WHEN EXCAVATING NEAR EXISTING SERVICES. NO MECHANICAL EXCAVATION SHALL OCCUR OVER COMMUNICATION OR ELECTRICAL SERVICES. EXCAVATE BY HAND IN THESE AREAS.
8. ARRANGE FOR ALL SERVICES IN THE VICINITY OF THE WORKS (GAS, TELECOM ETC.) TO BE ACCURATELY LOCATED PRIOR TO COMMENCEMENT OF EXCAVATION AROUND THESE SERVICES ARE TO BE BY HAND AND NOT MACHINERY.
9. ALL SERVICE TRENCHES SHALL COMPLY WITH AS3798 'GUIDELINES ON EARTHWORKS'. PARTICULARLY NOTE SECTION 5 - COMPACTION CRITERIA.

EXISTING HYDRAULIC SERVICES NOTES:

1. INSPECT THE SITE AND BE SATISFIED AS TO THE CONDITIONS UNDER WHICH THE WORK WILL BE CARRIED OUT, PRIOR TO THE SUBMISSION OF A TENDER OFFER.

ABBREVIATIONS

NORTH

Cu	- COPPER
CW	- COLD WATER
DP	- DOWNPIPE
e	- EXISTING
HL	- HIGH LEVEL
HT	- HOSE TAP
IL	- INVERT LEVEL
IOS	- INSPECTION OPENING TO SURFACE
PVC	- POLYVINYLCHLORIDE
DF	- DRINKING FOUNTAIN
NP	- NON -DRINKING WATER
OF	- OVERFLOW

SYMBOLS LEGEND

- EXTERNAL DUAL PILLAR FIRE HYDRANT
- FIRE HYDRANT
- FIRE HOSE REEL (36m)
- INGROUND HYDRANT
- HOSE TAP
- UNION
- CONNECTION TO EXISTING SERVICE
- ISOLATION VALVE
- TESTABLE SINGLE CHECK VALVE
- REDUCED PRESSURE ZONE DEVICES
- DOUBLE CHECK VALVE
- WATER METER
- SERVICE IDENTIFICATION SYMBOL
  - RISER
  - SERVICE
  - SIZE
  - DROPPER

LINETYPES LEGEND

- STORMWATER PIPE
- DRAINAGE PIPE
- COLD WATER PIPE
- FIRE HYDRANT PIPE
- NON-DRINKING WATER
- AUTHORITY WATER MAIN
- DIRECTION OF FLOW
- PIPE CONTINUATION
- PIPE RISER
- PIPE DROPPER
- CAPPED OFF SERVICE
- PIPE REDUCER
- EXTENT OF CONCRETE CUTTING & REINSTATEMENT
- EXISTING STORMWATER PIPE
- CIVIL STORMWATER PIPE

7				
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4	ISSUED FOR TENDER		14/08/20	
3	PRELIMINARY DESIGN RE-ISSUE		20/12/19	
2	PRELIMINARY DESIGN ISSUE		08/11/19	
1	ISSUE FOR INTERNAL REVIEW - QS		25/10/19	
	Revisions/Descriptions	Certification	Date	Microfiled

CAD FILES

Last Modified :-

Associated Job Nos

Auxiliary Drg Nos

Survey Data	
Datum	GDA94
Horiz. Grid	MGA Z56
Height Origin	AHD
Survey Books	

Scales

Dimensions shown in millimetres except where shown otherwise

SOUTHERN MORETON BAY
SOUTHERN MORETON BAY ISLANDS
KARRAGARRA ISLAND

FERRY TERMINALS DESIGN

Drawn	KJ
Checked	JO
Designed	JO
Design Review	MS
Date	25/ 10 / 19

HYDRAULIC

LEGEND AND NOTES

ENGINEERING CERTIFICATION (RPEQ)

ENG. AREA	NAME	SIGNATURE	NO.	DATE

Queensland Government

File No.	467/00408
Contract. No.	CN-12653
Drawing No.	4705 4
Project No.	TMR29-130

MRM_Detail (05/14) BN-70-1

ISSUE FOR TENDER

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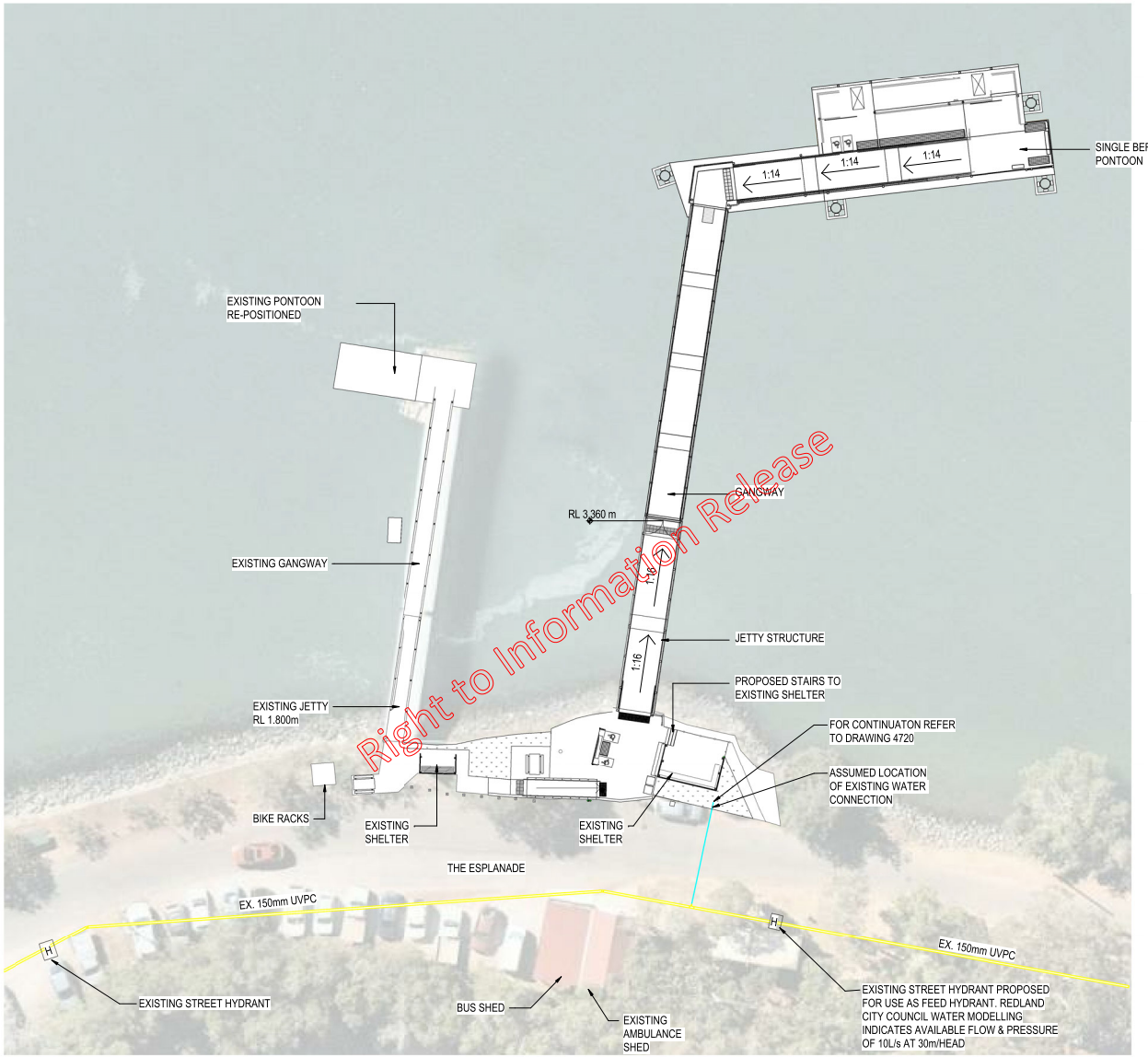

NOTES:

1. FIRE SYSTEM DESIGN HAS BEEN DOCUMENTED TO MEET THE REQUIREMENTS OUTLINED WITHIN THE CERTIFIERS NCC REPORT.
2. DUE TO THE BUILDING SIZE THE NEW STREET HYDRANT IS NOT REQUIRED BY THE NCC 2019. THE CURRENT DOCUMENTED DESIGN INCLUDES THE USE OF THE STREET HYDRANT AS A FEED HYDRANT FOR BOOSTING BY THE FIRE BRIGADE PUMPING APPLIANCE, AND 90m HOSE COVERAGE (WITH 3 x 30m HOSES) PLUS 10m HOSE STREAM TO PROVIDE COVERAGE TO THE GANGWAY AND PONTOON.
3. A CLEAR NOTICE SHALL BE HUNG NEAR THE HYDRANT/ENTRY CLARIFYING THAT IT IS A NON-REQUIRED HYDRANT SYSTEM, AND 3 x 30m HOSES ARE TO BE USED TO PROVIDE COVERAGE TO THE ENTIRE PONTOON AND GANGWAY

0 4000 8000 12000 16000 20000
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5	REVISED ISSUE FOR TENDER		31-08-20	
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1	ISSUED FOR INTERNAL REVIEW - QS		25-10-19	
	Revisions/Descriptions	Certification	Date	Microfiled

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Associated Job Nos

Auxiliary Drg Nos

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Scales

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SOUTHERN MORETON BAY
SOUTHERN MORETON BAY ISLANDS
KARRAGARRA ISLAND

FERRY TERMINALS DESIGN

Drawn KJ
Checked JO
Designed JO
Design Review
Date 31-08-20

HYDRAULIC
ALL SERVICES
SITE PLAN

ENGINEERING CERTIFICATION (RPEQ)

ENG. AREA	NAME	SIGNATURE	NO.	DATE

Queensland Government

File No. 467/00408
Contract. No. CN-12653
Drawing No. 4710 5
Project No. TMR29-130
MRM_Detail (05/14) BN-70-1

ISSUE FOR TENDER

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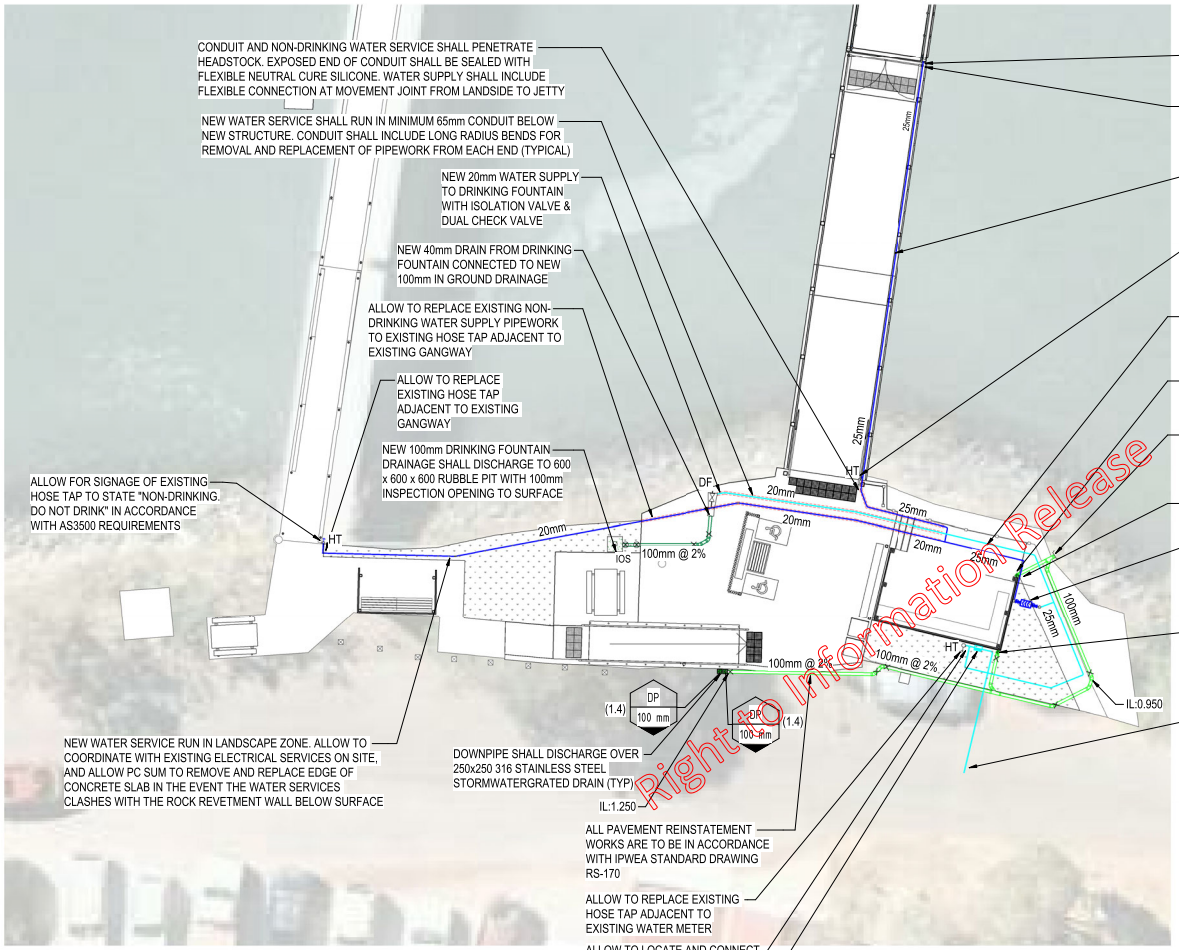

NOTES:

1. FIRE SYSTEM DESIGN HAS BEEN DOCUMENTED TO MEET THE REQUIREMENTS OUTLINED WITHIN THE CERTIFIERS NCC REPORT.
2. DUE TO THE BUILDING SIZE THE NEW STREET HYDRANT IS NOT REQUIRED BY THE NCC 2019. THE CURRENT DOCUMENTED DESIGN INCLUDES THE USE OF THE STREET HYDRANT AS A FEED HYDRANT FOR BOOSTING BY THE FIRE BRIGADE PUMPING APPLIANCE, AND 90m HOSE COVERAGE (WITH 3 x 30m HOSES) PLUS 10m HOSE STREAM TO PROVIDE COVERAGE TO THE GANGWAY AND PONTOON.
3. A CLEAR NOTICE SHALL BE HUNG NEAR THE HYDRANT/ENTRY CLARIFYING THAT IT IS A NON-REQUIRED HYDRANT SYSTEM, AND 3 x 30m HOSES ARE TO BE USED TO PROVIDE COVERAGE TO THE ENTIRE PONTOON AND GANGWAY
4. ALLOW TO CAP AND REMOVE ALL EXISTING WATER SUPPLIES RUNNING IN GROUND BELOW THE NEW SHELTERED WAITING AREA

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SCALE 1:100

5	REVISED ISSUE FOR TENDER		31-08-20	
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2	PRELIMINARY DESIGN ISSUE		08-11-19	
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	Revisions/Descriptions	Certification	Date	Microfiled

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Associated Job Nos

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Scales

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SOUTHERN MORETON BAY
SOUTHERN MORETON BAY ISLANDS
KARRAGARRA ISLAND
FERRY TERMINALS DESIGN

Drawn	KJ
Checked	JO
Designed	JO
Design Review	
Date	31-08-20

HYDRAULIC
ALL SERVICES
FLOOR PLAN - SHEET 1

ENGINEERING CERTIFICATION (RPEQ)

ENG. AREA	NAME	SIGNATURE	NO.	DATE

Queensland Government

File No.	467/00408
Contract. No.	CN-12653
Drawing No.	4720 5
Project No.	TMR29-130

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ISSUE FOR TENDER

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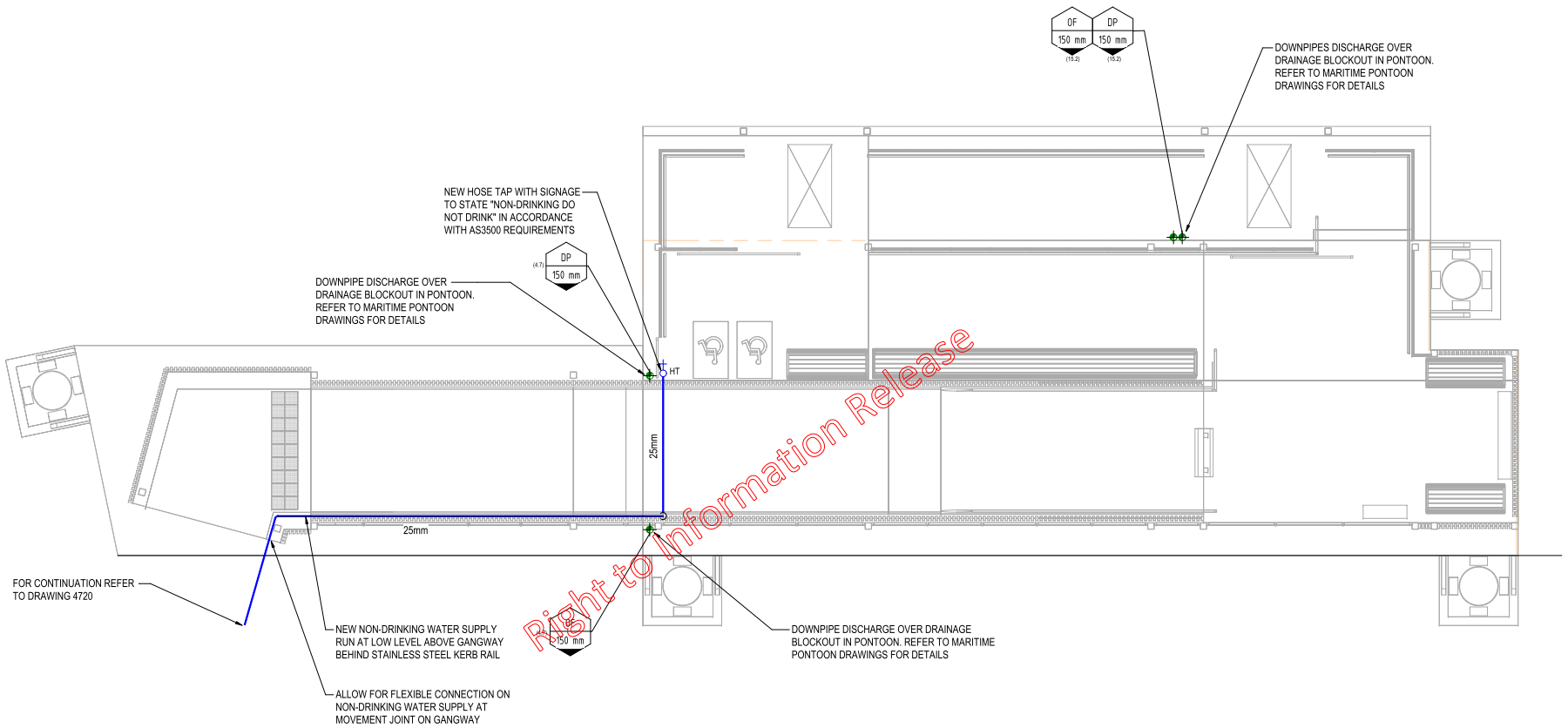

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4	ISSUED FOR TENDER		24-08-20	
3	PRELIMINARY DESIGN RE-ISSUE		20-12-19	
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Associated Job Nos

Auxiliary Drg Nos

Survey Data

Datum	GDA94
Horiz. Grid	MGA Z56
Height Origin	AHD
Survey Books	

Scales

Dimensions shown in millimetres except where shown otherwise

SOUTHERN MORETON BAY
SOUTHERN MORETON BAY ISLANDS
KARRAGARRA ISLAND

FERRY TERMINALS DESIGN

Drawn	KJ
Checked	JO
Designed	JO
Design Review	MS
Date	14-08-20

HYDRAULIC
ALL SERVICES
FLOOR PLAN - SHEET 2

ENGINEERING CERTIFICATION (RPEQ)

ENG. AREA	NAME	SIGNATURE	NO.	DATE

Queensland Government

File No.	467/00408
Contract. No.	CN-12653
Drawing No.	4721 | 4
Project No.	TMR29-130
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ISSUE FOR TENDER

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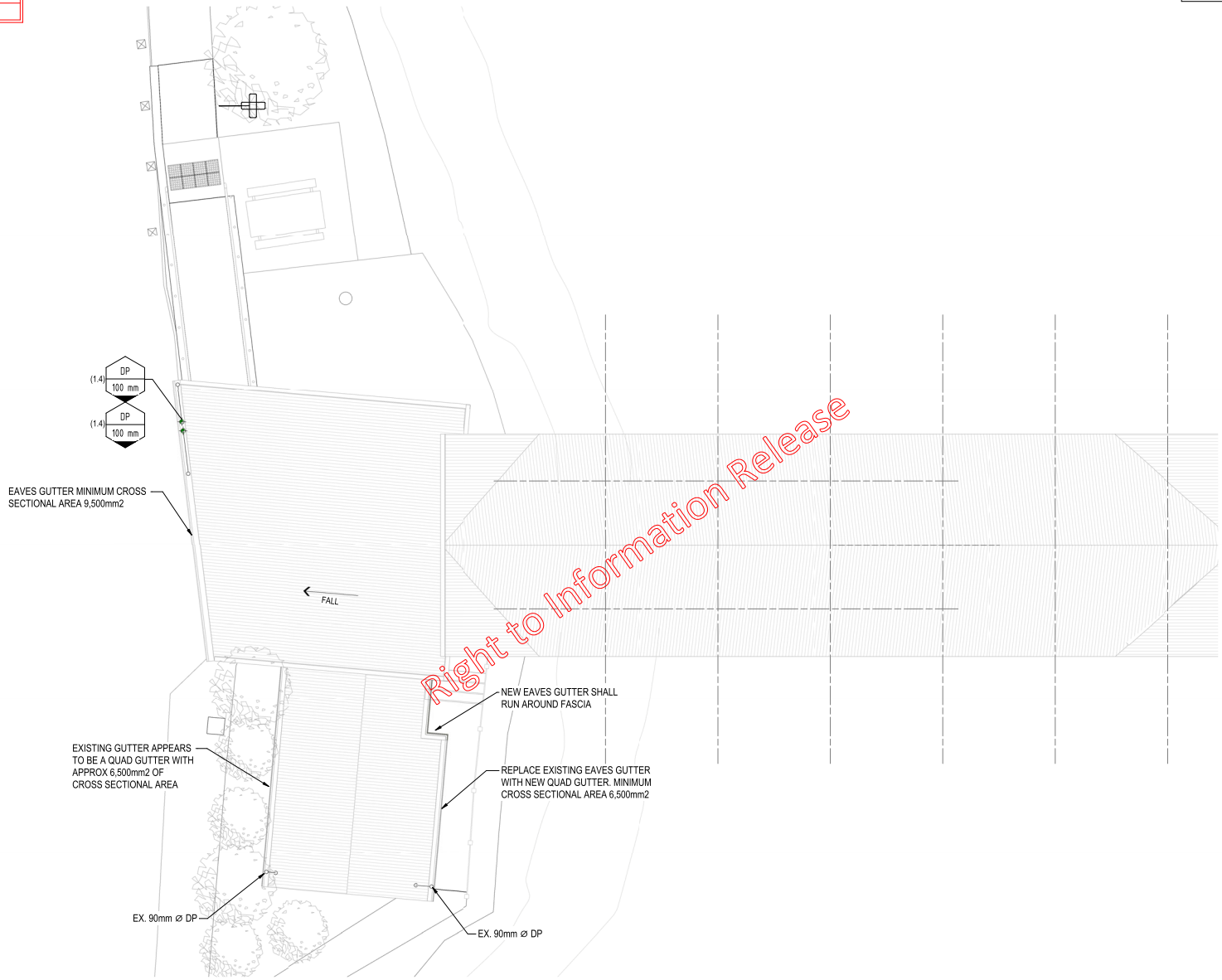

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1	ISSUED FOR TENDER		14-08-20	
	Revisions/Descriptions	Certification	Date	Microfiled

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Associated Job Nos

Auxiliary Drg Nos

Survey Data

Datum	GDA94
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Height Origin	AHD
Survey Books	

Scales

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SOUTHERN MORETON BAY
SOUTHERN MORETON BAY ISLANDS
KARRAGARRA ISLAND

FERRY TERMINALS DESIGN

Drawn	KJ
Checked	JO
Designed	JO
Design Review	MS
Date	14-08-20

HYDRAULIC
LANDSIDE AND JETTY
ROOF PLAN - SHEET 1

ENGINEERING CERTIFICATION (RPEQ)

ENG. AREA	NAME	SIGNATURE	NO.	DATE

Queensland Government

File No.	467/00408
Contract. No.	CN-12653
Drawing No.	4722 | 1
Project No.	TMR29-130
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ISSUE FOR TENDER

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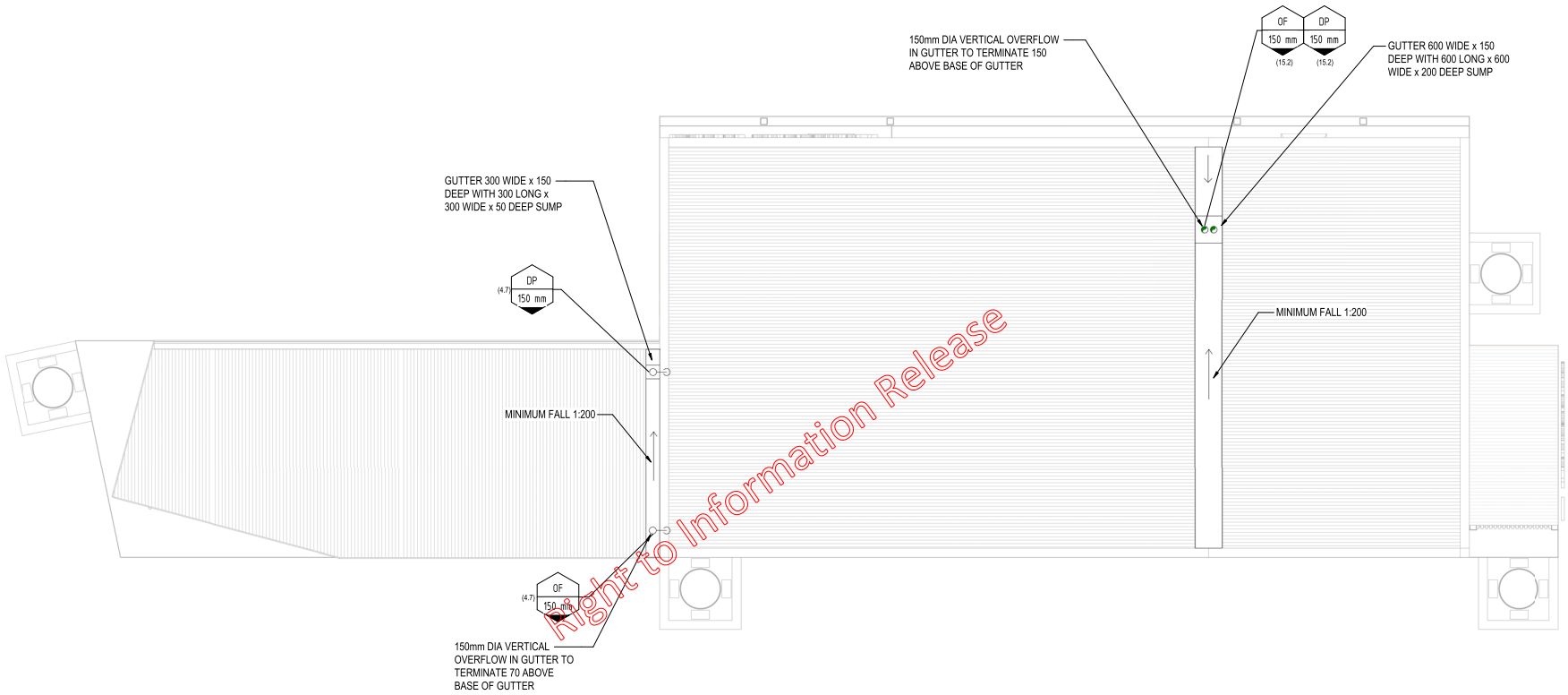

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Associated Job Nos

Auxiliary Drg Nos

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SOUTHERN MORETON BAY
SOUTHERN MORETON BAY ISLANDS
KARRAGARRA ISLAND

FERRY TERMINALS DESIGN

Drawn	KJ
Checked	JO
Designed	JO
Design Review	MS
Date	14-08-20

HYDRAULIC
PONTOON
ROOF PLAN - SHEET 2

ENGINEERING CERTIFICATION (RPEQ)

ENG. AREA	NAME	SIGNATURE	NO.	DATE

Queensland Government

File No.	467/00408
Contract. No.	CN-12653
Drawing No.	4723 1
Project No.	TMR29-130
MRM_Detail (05/14)	BN-70-1

ISSUE FOR TENDER

Cardno architectus

GUIDELINES FOR DESIGN AND INSTALLATION

NOTES:

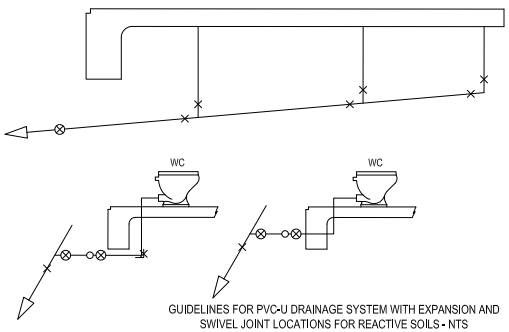
THE FOLLOWING NOTES AND DETAILS PROVIDED ARE A GUIDE ONLY FOR ARTICULATION FOR SANITARY PLUMBING, DRAINAGE AND SHOULD BE READ IN CONJUNCTION WITH AS/NZS 3500, AS 2870 AND ANY OTHER RELEVANT STANDARD AND OTHER REQUIREMENTS OF THE BCA.

1. ALL SEWER AND STORMWATER TO BE CONSTRUCTED IN ACCORDANCE WITH AS/NZS 3500 AND THE REQUIREMENTS OF AS 2870 SECTION 5: SECTION 6.
2. PLUMBING AND DRAINAGE UNDER THE SLAB SHOULD BE AVOIDED WHERE PRACTICAL.
3. GRADES IN PIPE WORK ON M,H,E AND P SITES SHOULD HAVE A MINIMUM GRADE OF 3.35% WITHIN 1.5m OF THE BUILDING AND THE FOLLOWING GRADES ELSEWHERE:
   CLASS "M" MIN GRADE 1.65%
   CLASS "H" MIN GRADE 2.00%
   CLASS "E" MIN GRADE 2.50%
   CLASS "P" MIN GRADE 2.50%
4. ALL EXPANSION AND ARTICULATION JOINTS TO BE IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS ALL JOINTS TO BE SET MID POINT SO AS TO ALLOW FOR MAXIMUM IN EITHER DIRECTION.
5. STORM PLASTICS (SA) PTY LTD "SWIVEL JOINTS" SHOULD NOT BE USED AS A END TO ACHIEVE CORRECT FALLS. THE JOINTS SHOULD BE SET IN A STRAIGHT LINE OF THE DRAIN TO ALLOW MAXIMUM (+) OR (-) MOVEMENT. A MINIMUM 15° BEND TO BE INSTALLED BEFORE SWIVEL JOINTS TO ACHIEVE MINIMUM GRADES FROM THE FACE OF THE FOOTINGS.
7. ALL PVC PIPE WORK PASSING THROUGH CONCRETE MUST HAVE 20mm LAGGING FOR CLASS H1 SITES AND 40mm LAGGING FOR CLASS H2 AND CLASS E SITES.
8. THE USE OF CORRUGATED FLEXIBLE PVC PIPE PRODUCTS SHOULD BE AVOIDED ON CLASS H AND E SITES AS THEY ARE NOT ABLE TO EXPAND LONGITUDINALLY TO ACCOMMODATE POTENTIAL VERTICAL AND LATERAL MOVEMENTS AT THE SLAB OR FOOTING EDGE UNLESS SPECIFICALLY DETAILED BY THE MANUFACTURER.
9. TERMITE PROTECTION NOT SHOWN ON THESE DRAWINGS AS THERE ARE VARIOUS OPTIONS. REFER TO THE BUILDING DESIGNER.
10. PROVISIONS SHALL BE MADE FOR THE CONNECTION OF OVERFLOW OR WATER DISCHARGE FROM FIXTURES SUCH AS HWS AND AC TO A DRAIN AS REQUIRED BY THE RELEVANT LOCAL AUTHORITY.
11. THE BASE OF THE TRENCHES SHALL SLOPE AWAY FROM THE BUILDING.
12. TRENCHES SHALL BE BACKFILLED WITH CLAY WITH IN THE TOP 300mm WITHIN 1.5m OF THE BUILDING. THE CLAY USED FOR BACKFILLING SHALL BE COMPACTED.
13. WHERE PIPES PASS UNDER FOOTING SYSTEMS, THE TRENCH SHALL BE BACKFILLED FULL DEPTH WITH CLAY TO ACT AS A BARRIER TO THE INGRESS OF WATER BENEATH THE FOOTING SYSTEM

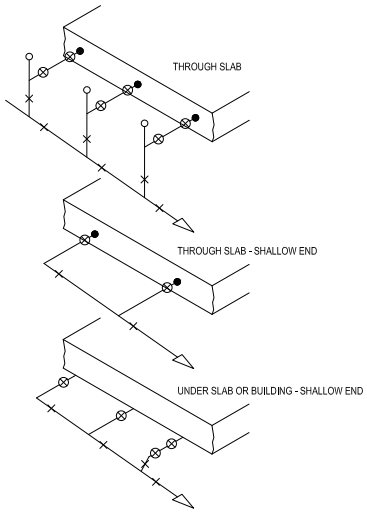
.

14. DRAINS ATTATCHED TO OR EMERGING FROM UNDERNEATH THE BUILDING SHALL INCORPORATE FLEXIBLE JOINTS IMMEDIATELY OUTSIDE THE FOOTING AND COMMENCING WITHIN 1m OF THE BUILDING PERIMETER TO ACCOMMODATE A TOTAL RANGE OF DIFFERENTIAL MOVEMENT IN ANY DIRECTION EQUAL TO THE ESTIMATED CHARACTERISTIC SURFACE MOVEMENT OF THE SITE.
15. ON-SITE WASTEWATER TREATMENT UNITS AND ASSOCIATED LAND APPLICATION AREAS SHALL BE LOCATED TO MINIMIZE SOIL MOISTURE INCREASE WITHIN THE FOUNDATION.

UNDER SLAB INTERNAL DRAINS



GUIDELINES FOR PVC-U DRAINAGE SYSTEM WITH EXPANSION AND SWIVEL JOINT LOCATIONS FOR REACTIVE SOILS - NTS



GUIDELINES FOR PVC-U DRAINAGE SYSTEM WITH EXPANSION AND SWIVEL JOINT LOCATIONS FOR REACTIVE SOILS - NTS

LEGEND	
⊗	SWIVEL / EXPANSION JOINT
×	EXPANSION JOINT
×∟	EXPANSION JOINT BEND

7				
6				
5				
4				
3				
2				
1	ISSUED FOR TENDER		14/08/20	
	Revisions/Descriptions	Certification	Date	Microfilled

Last Modified:-
CAD FILES

Associated Job Nos

Auxiliary Drg Nos

Survey Data

Datum	GDA94
Horiz. Grid	MGA Z56
Height Origin	AHD
Survey Books	

Scales

Dimensions shown in millimetres except where shown otherwise

SOUTHERN MORETON BAY
SOUTHERN MORETON BAY ISLANDS
KARRAGARRA ISLAND

FERRY TERMINALS DESIGN

Drawn	KJ
Checked	JO
Designed	JO
Design Review	MS
Date	14-08-20

HYDRAULIC
ALL SERVICES
DETAILS

ENGINEERING CERTIFICATION (RPEQ)

ENG. AREA	NAME	SIGNATURE	NO.	DATE

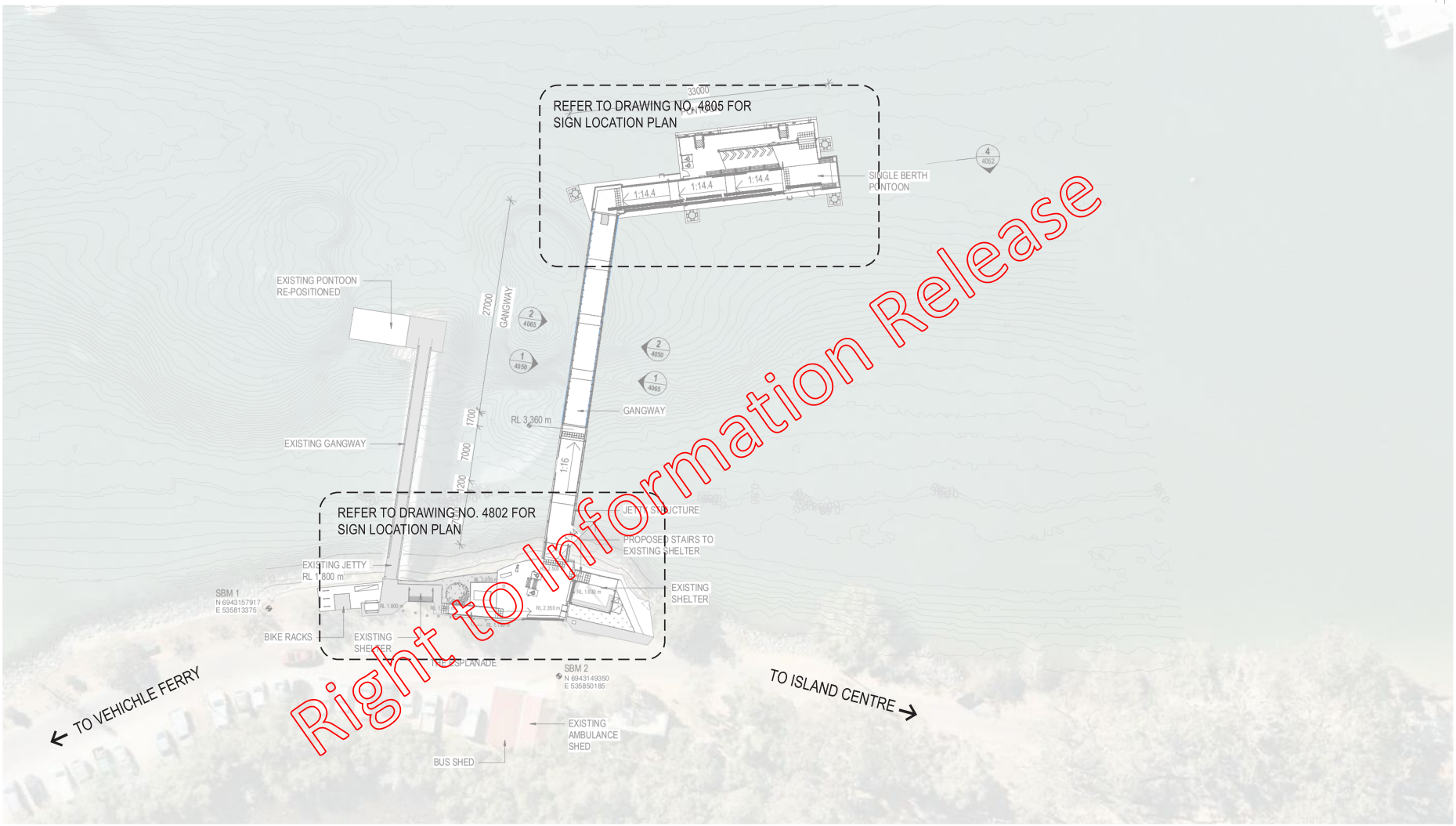
Queensland Government

File No.	467/00408
Contract. No.	CN-12653
Drawing No.	4740 1
Project No.	TMR29-130

MRM_Detail (05/14) BN-70-1

ISSUE FOR TENDER

Cardno architectus



0 5000 10000 15000 20000 25000

SCALE 1:500 @ A3

2	ISSUED FOR TENDER		14-08-20	
1	DETAILED DESIGN ISSUE		31-07-20	
	Revisions/Descriptions	Certification	Date	Microfiled

CAD FILES Nil

Associated Job Nos

Auxiliary Drg Nos

Survey Data: Datum GDA94; Horiz. Grid MGA Z56; Height Origin AHD; Survey Books

Scales: Dimensions shown in millimetres except where shown otherwise

SOUTHERN MORETON BAY
SOUTHERN MORETON BAY ISLANDS
KARRAGARRA ISLAND

FERRY TERMINALS DESIGN

Drawn AP
Checked DN
Designed AP
Design Review MR
Date 13/08/20

SIGNAGE AND WAYFINDING

SITE PLAN

ENGINEERING CERTIFICATION (RPEQ)

ENG. AREA	NAME	SIGNATURE	NO.	DATE

Queensland Government

File No. 467/00408
Contract. No. CN-12653
Drawing No. 4801 2
Project No. TMR29-130
MRM_Detail (05/14) BN-70-1

ISSUE FOR TENDER

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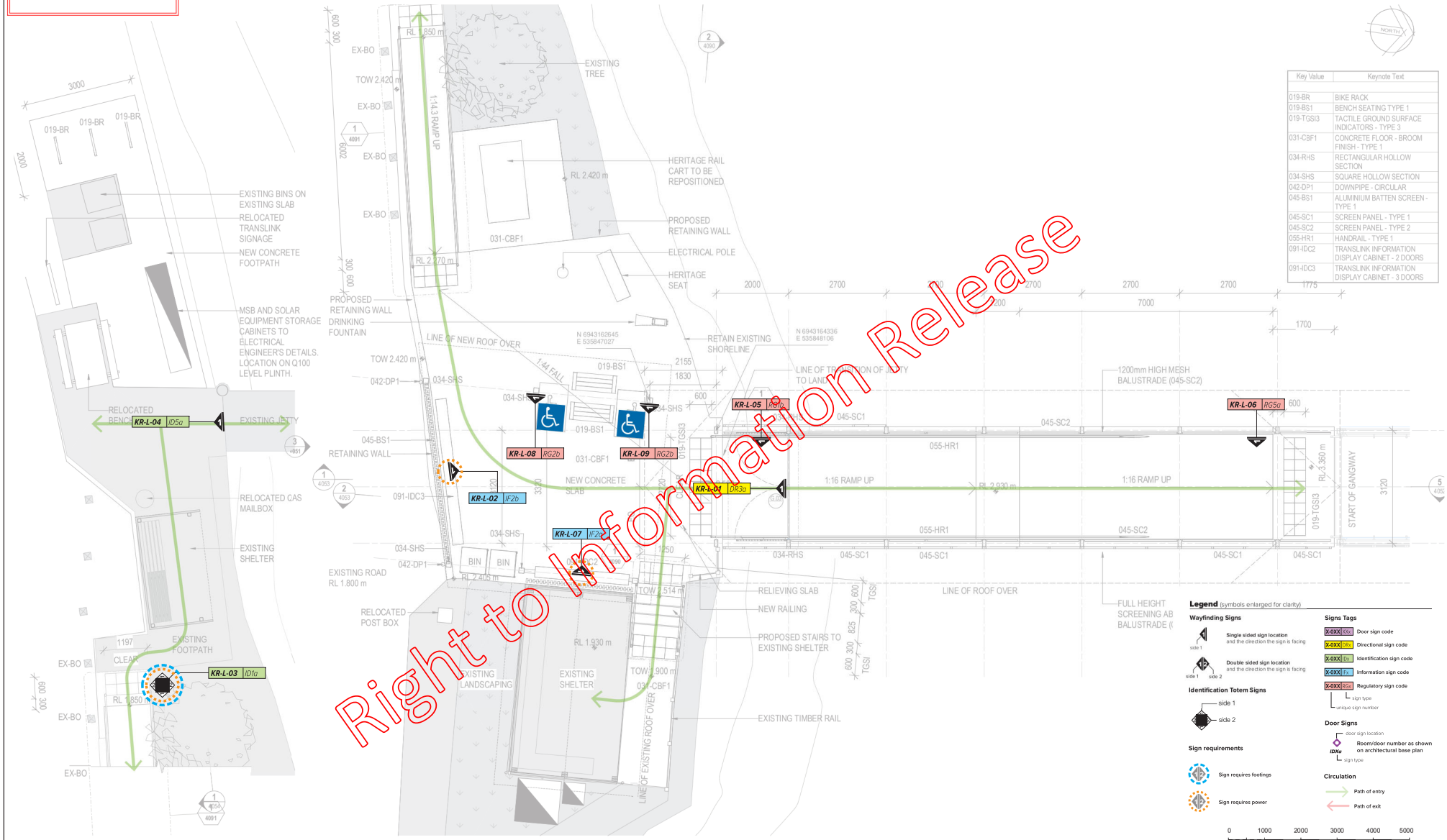

Key Value	Keynote Text
019-BR	BIKE RACK
019-BS1	BENCH SEATING TYPE 1
019-TGSI3	TACTILE GROUND SURFACE INDICATORS - TYPE 3
031-CBF1	CONCRETE FLOOR - BROOM FINISH - TYPE 1
034-RHS	RECTANGULAR HOLLOW SECTION
034-SHS	SQUARE HOLLOW SECTION
042-DP1	DOWNPIPE - CIRCULAR
045-BS1	ALUMINIUM BATTEN SCREEN - TYPE 1
045-SC1	SCREEN PANEL - TYPE 1
045-SC2	SCREEN PANEL - TYPE 2
055-HR1	HANDRAIL - TYPE 1
091-IDC2	TRANSLINK INFORMATION DISPLAY CABINET - 2 DOORS
091-IDC3	TRANSLINK INFORMATION DISPLAY CABINET - 3 DOORS

Legend (symbols enlarged for clarity)

Wayfinding Signs
- Single sided sign location and the direction the sign is facing
- Double sided sign location and the direction the sign is facing

Identification Totem Signs
- side 1
- side 2

Sign requirements
- Sign requires footings
- Sign requires power

Signs Tags
- X-0XX|XXx Door sign code
- X-0XX|DRx Directional sign code
- X-0XX|IDx Identification sign code
- X-0XX|IFx Information sign code
- X-0XX|RGx Regulatory sign code
  - sign type
  - unique sign number

Door Signs
- door sign location
- IDXa: Room/door number as shown on architectural base plan
- sign type

Circulation
- Path of entry
- Path of exit

0 1000 2000 3000 4000 5000

SCALE 1:100 @ A3

2	ISSUED FOR TENDER		14-08-20	
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CAD FILES: Nil

Associated Job Nos:

Auxiliary Drg Nos:

Survey Data: Datum GDA94; Horiz. Grid MGA Z56; Height Origin AHD; Survey Books

Scales: Dimensions shown in millimetres except where shown otherwise

SOUTHERN MORETON BAY
SOUTHERN MORETON BAY ISLANDS
KARRAGARRA ISLAND

FERRY TERMINALS DESIGN

Drawn	AP
Checked	DN
Designed	AP
Design Review	MR
Date	13/08/20

SIGNAGE AND WAYFINDING
LANDSIDE AND JETTY

SIGN LOCATION PLAN

ENGINEERING CERTIFICATION (RPEQ)

ENG. AREA	NAME	SIGNATURE	NO.	DATE

Queensland Government

File No.	467/00408
Contract. No.	CN-12653
Drawing No.	4802 2
Project No.	TMR29-130
MRM_Detail (05/14)	BN-70-1

ISSUE FOR TENDER

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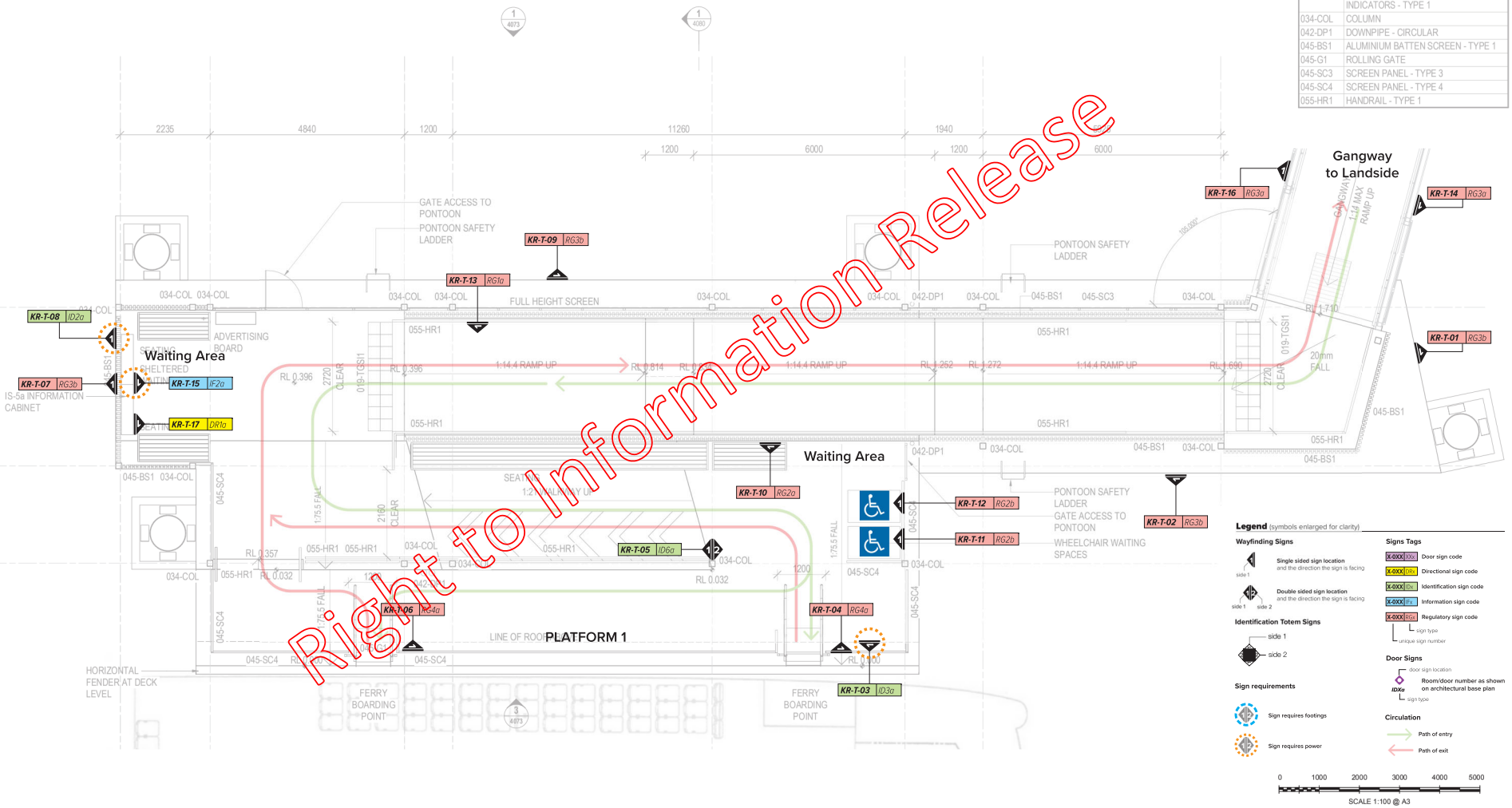


2	ISSUED FOR TENDER		14-08-20	
1	DETAILED DESIGN ISSUE		31-07-20	
	Revisions/Descriptions	Certification	Date	Microfiled

CAD FILES | Nil

Associated Job Nos

Auxiliary Drg Nos

Survey Data: Datum GDA94; Horiz. Grid MGA Z56; Height Origin AHD; Survey Books

Scales: Dimensions shown in millimetres except where shown otherwise

SOUTHERN MORETON BAY
SOUTHERN MORETON BAY ISLANDS
KARRAGARRA ISLAND

FERRY TERMINALS DESIGN

Drawn AP
Checked DN
Designed AP
Design Review MR
Date 13/08/20

SIGNAGE AND WAYFINDING PONTOON

SIGN LOCATION PLAN

ENGINEERING CERTIFICATION (RPEQ)

ENG. AREA	NAME	SIGNATURE	NO.	DATE

Queensland Government

File No.	467/00408
Contract. No.	CN-12653
Drawing No.	4805 2
Project No.	TMR29-130

MRM_Detail (05/14) BN-70-1

ISSUE FOR TENDER

Cardno architectus

ABCDEFGHIJKLMNOPQRSTUVWXYZ
abcdefghijklmnopqrstuvwxyz 1234567890

Helvetica Neue 76 Bold Italic

ABCDEFGHIJKLMNOPQRSTUVWXYZ
abcdefghijklmnopqrstuvwxyz 1234567890

Helvetica Neue 75 Bold *

ABCDEFGHIJKLMNOPQRSTUVWXYZ
abcdefghijklmnopqrstuvwxyz 1234567890

Helvetica Neue 65 Medium *

ABCDEFGHIJKLMNOPQRSTUVWXYZ
abcdefghijklmnopqrstuvwxyz 1234567890

Helvetica Neue 66 Medium Italic

ABCDEFGHIJKLMNOPQRSTUVWXYZ
abcdefghijklmnopqrstuvwxyz 1234567890

Helvetica Neue 55 Roman *

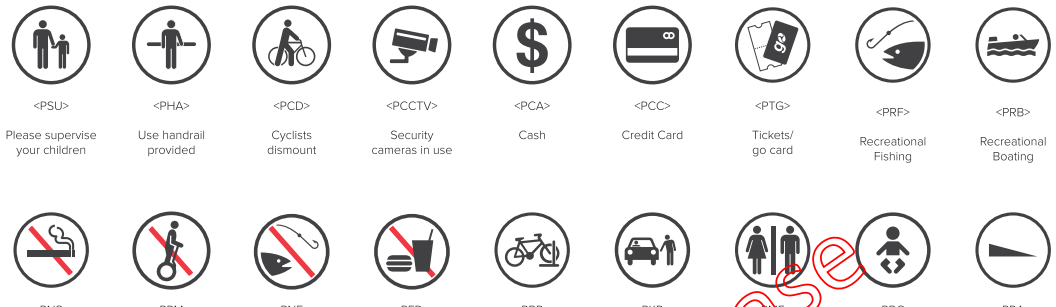
ABCDEFGHIJKLMNOPQRSTUVWXYZ
abcdefghijklmnopqrstuvwxyz 1234567890

Helvetica Neue 56 Italic

ABCDEFGHIJKLMNOPQRSTUVWXYZ
abcdefghijklmnopqrstuvwxyz 1234567890

Helvetica Neue 46 Light Italic

TransLink Standard Fonts – HELVETICA



<PSU> Please supervise your children
<PHA> Use handrail provided
<PCD> Cyclists dismount
<PCCTV> Security cameras in use
<PCA> Cash
<PCC> Credit Card
<PTG> Tickets/ go card
<PRF> Recreational Fishing
<PRB> Recreational Boating
<PNS> No smoking beyond this point
<PPM> Personal mobility devices prohibited
<PNF> No fishing
<PFD> No food or drink on board vessel
<PBP> Bicycle Parking
<PKR> Kiss 'n' ride
<PTMF> Toilets
<PBC> Baby Change
<PRA> Ramp
<PMT> Male Toilet
<PFT> Female Toilet
<PMA> Male Ambulant Toilet
<PFA> Female Ambulant Toilet
<PTF> TransLink Ferry
<PP> Car Parking
<PWA> Warning
<PA> Access Symbol

Pictograms

<XXX> = Code used for sheduling

Arrows

Queensland Government

Queensland Government Logo

TRANSLink 13 12 30 www.translink.com.au

TransLink Standards

Unless otherwise noted all dimensions in millimetres. Use figured dimensions in preference to scaling. Contractor to confirm all dimensions and details on site prior to manufacture.

Attention
Due to this reproduction process the colours in this image are not exact representations of the final product.

REFERENCE DOCUMENTS
This drawing must be read in conjunction with the following documents:
- Wayfinding Sign Schedule
- Sign Type Drawings
- Specification

FONT FAMILY
HELVETICA
The font family shown is to be used for all messages, text and numerals except where specifically stated otherwise.

No other versions of typefaces will be accepted. It is the responsibility of the sign maker to purchase the font(s) as specified.

* Note: Use non-italicised font for tactile signs. Ensure minimum 2mm stroke thickness for lettering (max 5 mm). Provide a minimum of 2mm space between characters.

FERRY SYMBOLS
Only the symbols as shown on this page are to be used. No other versions will be accepted.

PICTOGRAMS & ARROWS
Only the pictograms and arrows as shown on this page are to be used. No other versions will be accepted.

2	ISSUED FOR TENDER		14-08-20	
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	Revisions/Descriptions	Certification	Date	Microfiled

CAD FILES | NI

Associated Job Nos
Auxiliary Drg Nos

Survey Data: Datum GDA94; Horiz. Grid MGA Z56; Height Origin AHD; Survey Books

Scales: Dimensions shown in millimetres except where shown otherwise

SOUTHERN MORETON BAY
SOUTHERN MORETON BAY ISLANDS
KARRAGARRA ISLAND

FERRY TERMINALS DESIGN

Drawn AP | Checked DN | Designed AP | Design Review MR | Date 13/08/20

SIGNAGE AND WAYFINDING

GRAPHIC REFERENCE - SHEET 1

ENGINEERING CERTIFICATION (RPEQ)

ENG. AREA	NAME	SIGNATURE	NO.	DATE

Queensland Government

File No.	467/00408
Contract. No.	CN-12653
Drawing No.	4807 2
Project No.	TMR29-130

MRM_Detail (05/14) BN-70-1

ISSUE FOR TENDER

Cardno architectus

Generic Standards for TransLink Signage & Wayfinding

The colour selection guide illustrates the corporate identity of TransLink in the urban environment in SEQ. The aim of the colour selection guide is to provide the opportunity for design professionals to consider the TransLink identity and station/terminal within the wider context built environment around the station/terminal location. The following describes the principles of colour selection for TransLink public transport facilities.

SIGNAGE COLOUR STRATEGY

• Resene 'Trinidad'(or approved colour match) is used as the primary background colour for signs directing to and identifying public transport. These signs direct to platforms, subway, concourse, bus interchanges/bus stops from one platform to another.

• Resene 'Jon' (or approved colour match) is the secondary background colour used for all other messages. These signs will:
- direct to other facilities away from the station/terminal.
- direct to or identify facilities on platform/concourse.
e.g. help phone, ticket office, toilet.

SIGNAGE MAINTENANCE

The specific choices made from the colour selection guide must be clearly identified and recorded on a station/terminal and stop asset register. The recording of each station/terminal component, and part and the specific material, finish and colour will ensure the station/terminal and signage can be easily maintained by the relevant organisation should repair or replacement be required.

The colours illustrated are the standard colours used on all TransLink station/terminal signage

Orange

PMS
-

PAINT
Resene 'Trinidad' O61-167-048

VINYL
Translucent background
= Arlon Oange 44

Opaque logo
= Arlon Bright Orange 83

Light Orange

PMS
-

PAINT
-

VINYL
Translucent logo
= Arlon Tangerine 84

Opaque logo
= Arlon Light Orange 97

Grey

PMS
-

PAINT
Resene 'Jon' N38-007-359

VINYL
Arlon Dark Grey 52

White

PMS
-

PAINT
Satin White

VINYL
Arlon White 02

Off White

PMS
-

PAINT
Resene Rice Cake C64 010 092

VINYL
-

Black

PMS
-

PAINT
Satin Black

VINYL
Arlon Matt Black 40 or
Arlon Black 03 as noted on sign type drawings.

Yellow

PMS
TBC

PAINT
-

VINYL
TBC

Blue (accessible signage)

PMS
Pantone 2945

PAINT
To match Pantone 2945

VINYL
Arlon Blue 05

Red (prohibition signs)

PMS
Pantone 032

PAINT
To match Pantone 032

VINYL
Arlon Perfect Match Red 220

2	ISSUED FOR TENDER		14-08-20	
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CAD FILES | NI

Associated Job Nos

Auxiliary Drg Nos

Survey Data: Datum GDA94; Horiz. Grid MGA Z56; Height Origin AHD; Survey Books

Scales

Dimensions shown in millimetres except where shown otherwise

SOUTHERN MORETON BAY
SOUTHERN MORETON BAY ISLANDS
KARRAGARRA ISLAND

FERRY TERMINALS DESIGN

Drawn	AP
Checked	DN
Designed	AP
Design Review	MR
Date	13/08/20

SIGNAGE AND WAYFINDING

GRAPHIC REFERENCE - SHEET 2

ENGINEERING CERTIFICATION (RPEQ)

ENG. AREA	NAME	SIGNATURE	NO.	DATE

Queensland Government

File No.	467/00408
Contract. No.	CN-12653
Drawing No.	4808 2
Project No.	TMR29-130

MRM_Detail (05/14) BN-70-1

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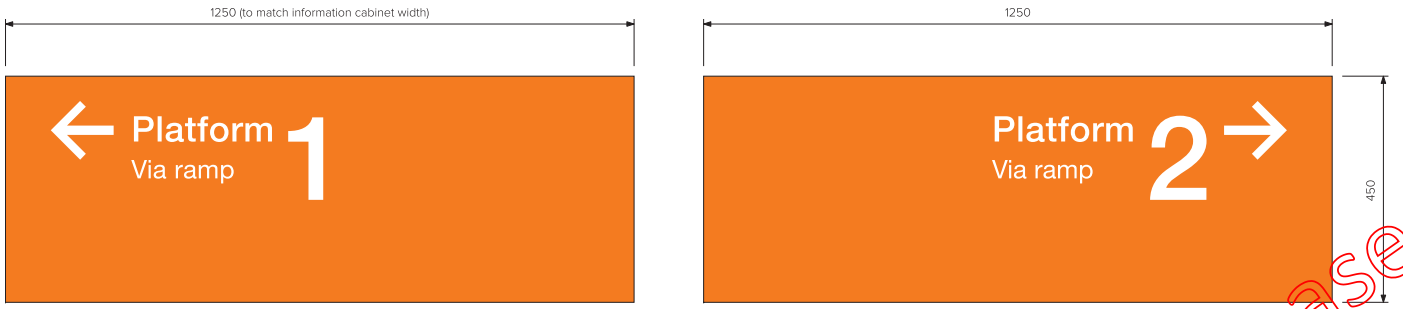
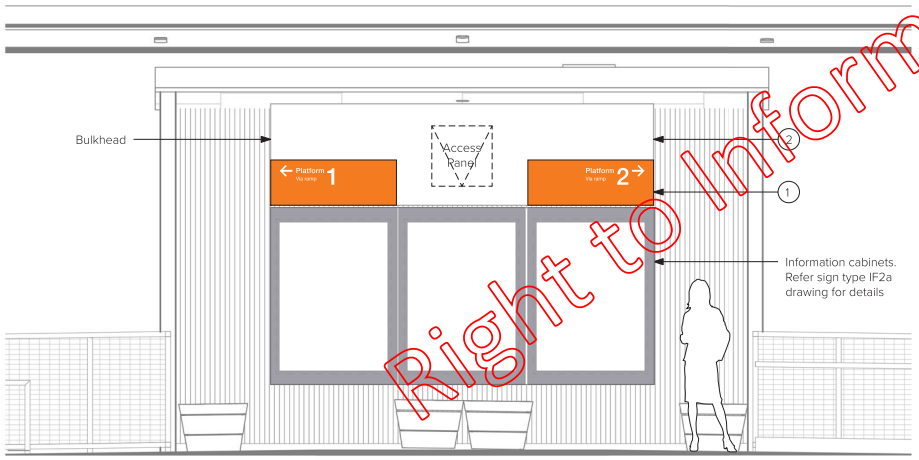


Graphic Layouts

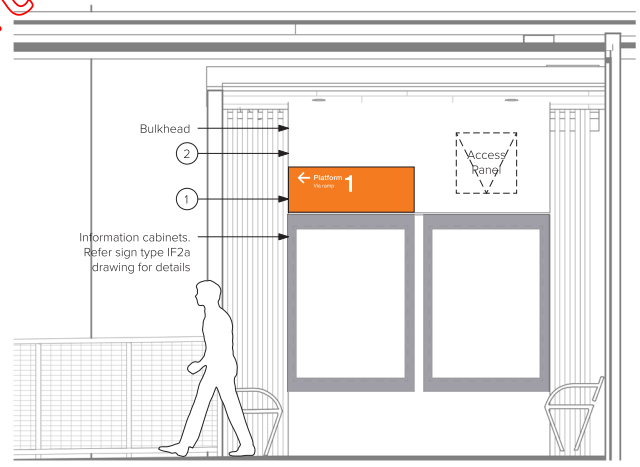
Scale 1:10



Macleay Island & Russell Isand

Typical Location - Double Platform Pontoons

Scale 1:50



Karragarra Island & Lamb Isand

Typical Location - Single Platform Pontoons

Scale 1:50

0 500 1000 1500 2000 2500
SCALE 1:50 @ A3

0 100 200 300 400 500
SCALE 1:10 @ A3

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Attention
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REFERENCE DOCUMENTS
This drawing must be read in conjunction with the following documents:
- Sign Location Plan
- Wayfinding Sign Schedule
- Specification

GENERAL CONSTRUCTION NOTES
- Drawings show design intent. Any changes to specification which affects design intent must be approved by Dot Dash.

- Signmaker to confirm all details for approval on shop drawings prior to manufacture.

Construction Details
1. 1.6mm thick aluminium sign panel with anti graffiti clear spray coat over front applied vinyl graphics.

2. Mounting surface. Prepare surface free from dust, dirt, oil & grease prior to fixing. Sign panel adhered to surface with 3M VHB Double sided tape & silicone.

Graphics Detail
FONT
= Helvetica Neue 65 Medium

SIZE
As Shown

COLOUR
Panel & angle = Orange
Text & Number = White

2	ISSUED FOR TENDER		14-08-20	
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CAD FILES | NI

Associated Job Nos

Auxiliary Drg Nos

Survey Data: Datum GDA94; Horiz. Grid MGA Z56; Height Origin AHD; Survey Books

Scales

Dimensions shown in millimetres except where shown otherwise

SOUTHERN MORETON BAY
SOUTHERN MORETON BAY ISLANDS
KARRAGARRA ISLAND

FERRY TERMINALS DESIGN

Drawn AP
Checked DN
Designed AP
Design Review MR
Date 13/08/20

SIGNAGE AND WAYFINDING

DR1a DIRECTIONAL SIGN - WALL MOUNTED

ENGINEERING CERTIFICATION (RPEQ)

ENG. AREA	NAME	SIGNATURE	NO.	DATE

Queensland Government

File No.	467/00408
Contract. No.	CN-12653
Drawing No.	4810 2
Project No.	TMR29-130

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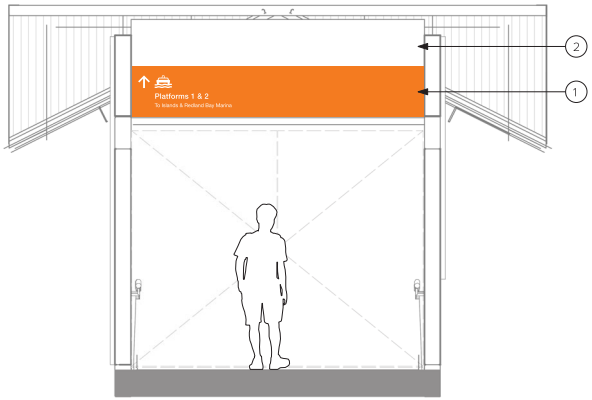

Typical Location

Scale 1:50

Graphic Layout

Scale 1:20

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Construction Details
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2. Mounting surface. Prepare surface free from dust, dirt, oil & grease prior to fixing. Sign panel adhered to surface with 3M VHB Double sided tape & silicone.

Graphics Detail
FONT
Platforms = Helvetica Neue 65 Medium
Destinations = Helvetica Neue 55 Roman

SIZE
As Shown

COLOUR
Panel & angle = Orange
Text & Number = White

0 500 1000 1500 2000 2500
SCALE 1:50 @ A3
0 200 400 600 800 1000
SCALE 1:20 @ A3

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CAD FILES | NI

Associated Job Nos
Auxiliary Drg Nos

Survey Data: Datum GDA94; Horiz. Grid MGA Z56; Height Origin AHD; Survey Books

Scales
Dimensions shown in millimetres except where shown otherwise

SOUTHERN MORETON BAY
SOUTHERN MORETON BAY ISLANDS
KARRAGARRA ISLAND

FERRY TERMINALS DESIGN

Drawn AP
Checked DN
Designed AP
Design Review MR
Date 13/08/20

SIGNAGE AND WAYFINDING

DR3a MAJOR DIRECTIONAL SIGN - OVER GATE

ENGINEERING CERTIFICATION (RPEQ)

ENG. AREA	NAME	SIGNATURE	NO.	DATE

Queensland Government

File No.	467/00408
Contract. No.	CN-12653
Drawing No.	4814 2
Project No.	TMR29-130

MRM_Detail (05/14) BN-70-1

ISSUE FOR TENDER

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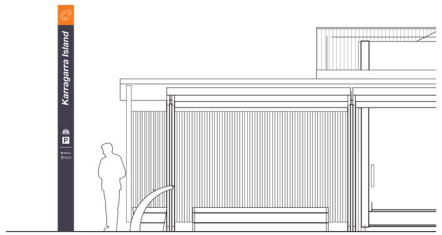
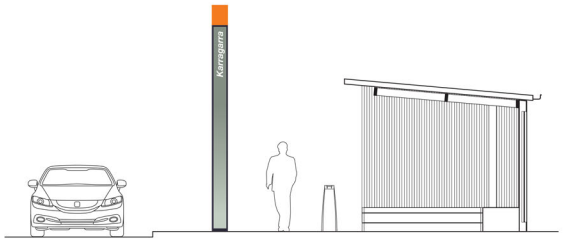


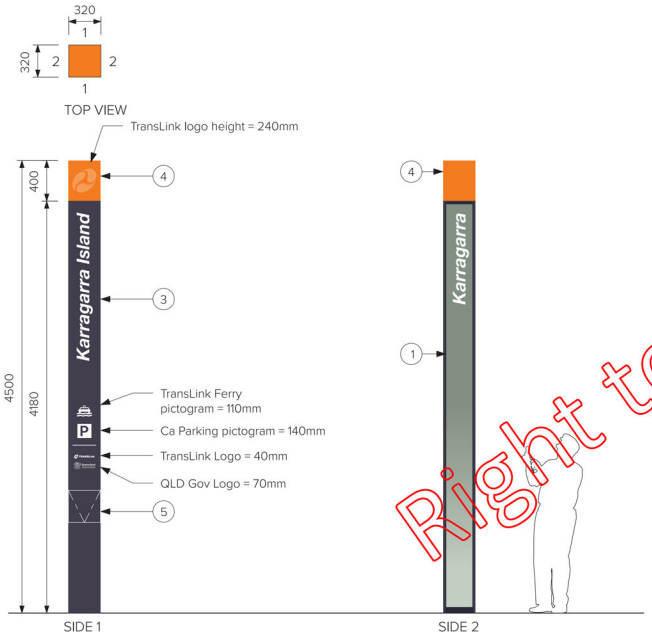
SIDE 1 - English Island Name

• Oriented towards major vehicular approach



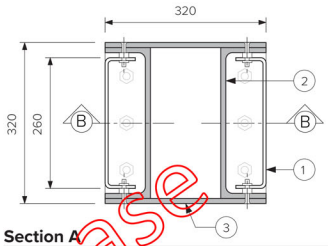
SIDE 2 - Indigenous Island Name

Typical Location
Scale 1:100

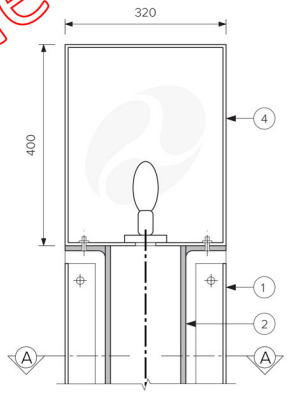


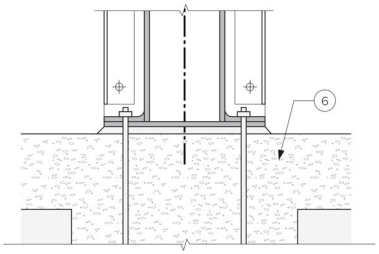
Graphic Layouts
Scale 1:50

Isometric view
Not to scale



Section A
Scale 1:10





Section B
Scale 1:10

REFERENCE DOCUMENTS
This drawing must be read in conjunction with the following documents:
- Sign Location Plan
- Graphic Reference
- Wayfinding Sign Schedule
- Specification

GENERAL CONSTRUCTION NOTES
• Drawings show design intent. Any changes to specification which affects design intent must be approved by Dot Dash.

• All structural members, fixings and/or footings to be confirmed by sign maker's engineer.

• Signmaker to confirm all details for approval on shop drawings prior to manufacture.

Construction Details
1. Anodised aluminium sign panel cassette fixed to PFC with indigenous island name etched with white fill. (same on opposite side) Andodised finish to match architectural finishes unique to each island. Refer to Architects finishes schedule for details.

2. 2 x 300x90mm steel PFC structure fixed to bolts cast in footing.

3. 10mm thick painted steel plate fixed to PFC with applied graphics including english island name, pictograms and logo (same on opposite side)

4. Illuminated acrylic beacon fixed to top of sign structure with TransLink logo applied to english named sides

5. Electrical access panel (one side only).

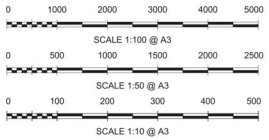
6. Footing to engineers detail

All steelwork to be hot dipped galvanised.

Graphics Detail
FONT
Island Names - Indigenous & English
= Helvetica 76 Bold Italic

SIZE
Island Name - Cap height = 130mm
Pictograms = As shown

COLOUR
Side 1 = Grey panel, white graphics
Side 2 = Anodised finish to match architectural specification, white graphics
Top = Orange



3	REVISED ISSUE FOR TENDER		31-08-20	
2	ISSUED FOR TENDER		14-08-20	
1	DETAILED DESIGN ISSUE		31-07-20	
	Revisions/Descriptions	Certification	Date	Microfiled

CAD FILES | Nil

Associated Job Nos

Auxiliary Drg Nos

Survey Data: Datum GDA94; Horiz. Grid MGA Z56; Height Origin AHD; Survey Books

Scales

Dimensions shown in millimetres except where shown otherwise

SOUTHERN MORETON BAY
SOUTHERN MORETON BAY ISLANDS
KARRAGARRA ISLAND

FERRY TERMINALS DESIGN

Drawn AP
Checked DN
Designed AP
Design Review MR
Date 13/08/20

SIGNAGE AND WAYFINDING

ID1a STATION IDENTIFICATION - TOTEM

ENGINEERING CERTIFICATION (RPEQ)

ENG. AREA	NAME	SIGNATURE	NO.	DATE

Queensland Government

File No.	467/00408
Contract. No.	CN-12653
Drawing No.	4818 3
Project No.	TMR29-130

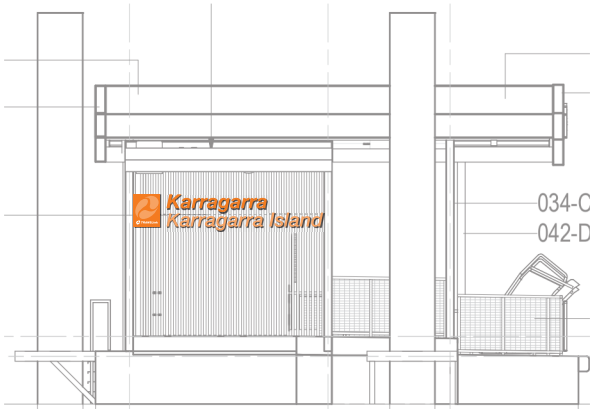
MRM_Detail (05/14) BN-70-1

ISSUE FOR TENDER

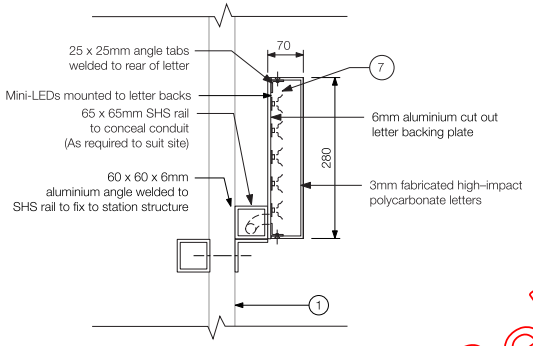
Unless otherwise noted all dimensions in millimetres. Use figured dimensions in preference to scaling. Contractor to confirm all dimensions and details on site prior to manufacture.

Attention
Due to this reproduction process the colours in this image are not exact representations of the final product.

Cardno architectus



Elevation
Scale 1:100



Section A-A – Typical Letter
Scale 1:10

Graphic Layout
Scale 1:20

REFERENCE DOCUMENTS
This drawing must be read in conjunction with the following documents:
- Sign Location Plan
- Wayfinding Sign Schedule
- Specification

GENERAL CONSTRUCTION NOTES
- Drawings show design intent. Any changes to specification which affects design intent must be approved by Dot Dash.

- All structural members, fixings and/or footings to be confirmed by sign maker's engineer.

- Signmaker to confirm all details for approval on shop drawings prior to manufacture.

Construction Details
1. Station structure.

2. Fabricated 3mm thick opal polycarbonate logo box and letters.
Letter returns to be painted opaque to match SNA aluminium finish.

3. 3mm thick opal polycarbonate face, with front applied translucent vinyl.

4. 6mm thick aluminium letter backing painted to match SNA.

7. Internal illumination via Cool White LED. Refer to specification for details.

8. 65 x 65 x 3mm SHS rail to conceal power.

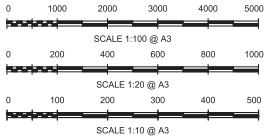
11. Grommet to suit outdoor application.

12. Power cable connecting LED to transformer to be concealed within / behind structure.

Graphics Detail
FONT
Indigenous name = Helvetica Neue 75 Bold
English name = Helvetica Neue 65 Medium

SIZE
As noted

COLOUR
Indigenous Name = Orange
English Name = Light Orange



3	REVISED ISSUE FOR TENDER		31-08-20	
2	ISSUED FOR TENDER		14-08-20	
1	DETAILED DESIGN ISSUE		31-07-20	
	Revisions/Descriptions	Certification	Date	Microfiled

CAD FILES | NI

Associated Job Nos
Auxiliary Drg Nos

Survey Data: Datum GDA94; Horiz. Grid MGA Z56; Height Origin AHD; Survey Books

Scales
Dimensions shown in millimetres except where shown otherwise

SOUTHERN MORETON BAY
SOUTHERN MORETON BAY ISLANDS
KARRAGARRA ISLAND

FERRY TERMINALS DESIGN

Drawn AP
Checked DN
Designed AP
Design Review MR
Date 13/08/20

SIGNAGE AND WAYFINDING

ID2a TERMINAL IDENTIFICATION - FIXED TO STRUCTURE

ENGINEERING CERTIFICATION (RPEQ)

ENG. AREA	NAME	SIGNATURE	NO.	DATE

Queensland Government

File No.	467/00408
Contract. No.	CN-12653
Drawing No.	4820 3
Project No.	TMR29-130

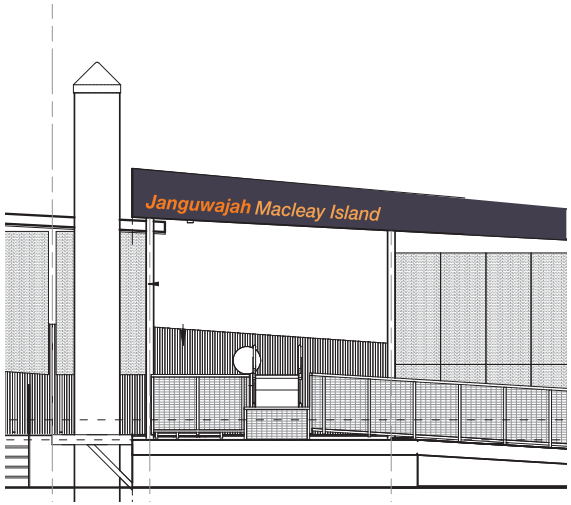
MRM_Detail (05/14) BN-70-1

ISSUE FOR TENDER

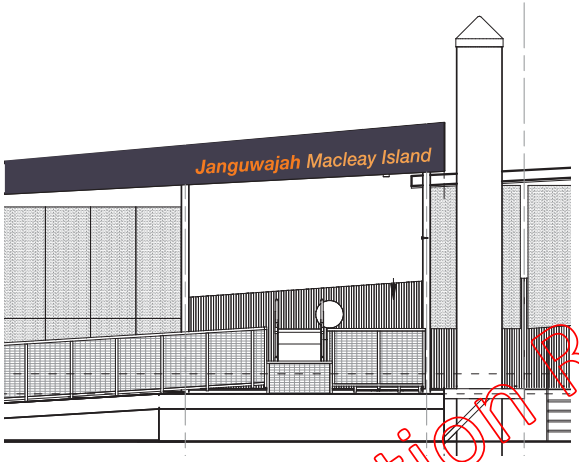
Unless otherwise noted all dimensions in millimetres. Use figured dimensions in preference to scaling. Contractor to confirm all dimensions and details on site prior to manufacture.

Attention
Due to this reproduction process the colours in this image are not exact representations of the final product.

Cardno architectus



PLATFORM 1 ELEVATION



PLATFORM 2 ELEVATION

Typical Location
Scale 1:100

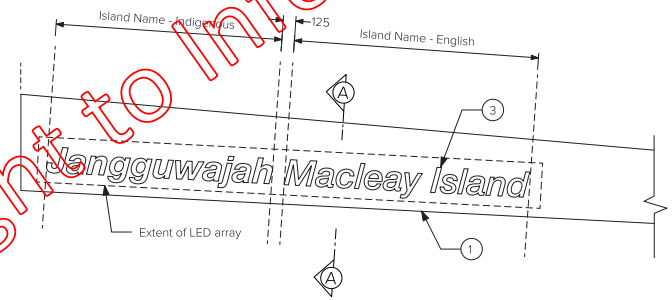
Janguwajah Macleay Island

Kanaipa Russell Island

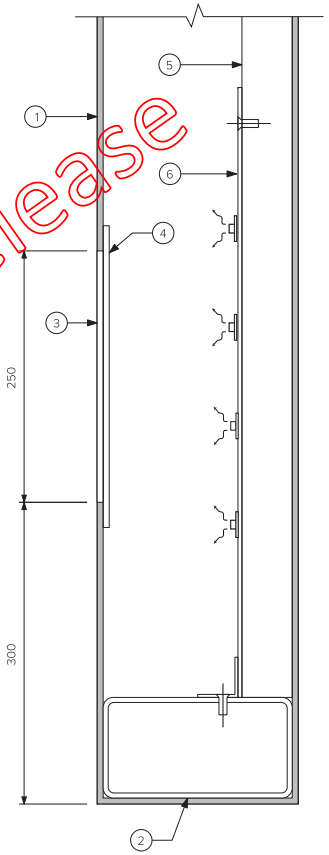
Karragarra Karragarra Island

Ngudjuru Lamb Island

Graphic Layouts
Scale 1:100



Typical Layout
Scale 1:50



Section A-A
Scale 1:5

REFERENCE DOCUMENTS
This drawing must be read in conjunction with the following documents:
- Sign Location Plan
- Graphic Reference
- Wayfinding Sign Schedule
- Specification

GENERAL CONSTRUCTION NOTES
- Drawings show design intent. Any changes to specification which affects design intent must be approved by Dot Dash.

- All structural members, fixings and/or footings to be confirmed by sign maker's engineer.

- Signmaker to confirm all details for approval on shop drawings prior to manufacture.

Construction Details
1. Ferry terminal roof fascia flashing. Refer architects drawings for construction details

2. Fascia frame. Refer architects drawings for construction details to.

3. Intracut letters in fascia flashing. Polycarbonate thickness to match fascia flashing thickness, finishing flush with panel.

4. 3mm opal backing.

5. 50mm aluminium SHS lighting supports welded to frame.

6. LED array panel fixed to frame and supports

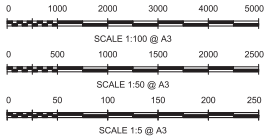
Graphics Detail
FONT
Island Name - Indigenous
= Helvetica 76 Bold Italic

Island Name - English
= Helvetica 66 Medium Italic

SIZE
Cap Height = 250mm

COLOUR
Island Name - Indigenous = Orange

Island Name - English = Light Orange



3	REVISED ISSUE FOR TENDER		31-08-20	
2	ISSUED FOR TENDER		14-08-20	
1	DETAILED DESIGN ISSUE		31-07-20	
	Revisions/Descriptions	Certification	Date	Microfiled

CAD FILES | NI

Associated Job Nos

Auxiliary Drg Nos

Survey Data: Datum GDA94; Horiz. Grid MGA Z56; Height Origin AHD; Survey Books

Scales
Dimensions shown in millimetres except where shown otherwise

SOUTHERN MORETON BAY
SOUTHERN MORETON BAY ISLANDS
KARRAGARRA ISLAND

FERRY TERMINALS DESIGN

Drawn AP
Checked DN
Designed AP
Design Review MR
Date 13/08/20

SIGNAGE AND WAYFINDING

ID3a TERMINAL IDENTIFICATION - INTEGRATED WITH FASCIA

ENGINEERING CERTIFICATION (RPEQ)

ENG. AREA	NAME	SIGNATURE	NO.	DATE

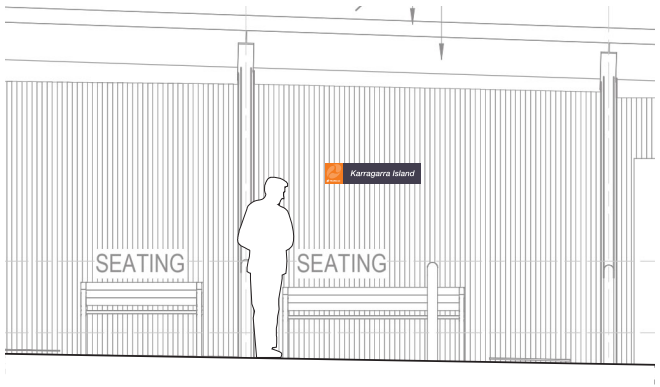
Queensland Government

File No.	467/00408
Contract. No.	CN-12653
Drawing No.	4822 3
Project No.	TMR29-130

MRM_Detail (05/14) BN-70-1

ISSUE FOR TENDER

Cardno architectus



Typical Location

Scale 1:50

Graphic Layout

Scale 1:5

Unless otherwise noted all dimensions in millimetres. Use figured dimensions in preference to scaling. Contractor to confirm all dimensions and details on site prior to manufacture.

Attention
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REFERENCE DOCUMENTS
This drawing must be read in conjunction with the following documents:
- Sign Location Plan
- Wayfinding Sign Schedule
- Specification

GENERAL CONSTRUCTION NOTES
- Drawings show design intent. Any changes to specification which affects design intent must be approved by Dot Dash.

- Signmaker to confirm all details for approval on shop drawings prior to manufacture.

Construction Details
1. 950 x 200 x 2mm aluminium sign panel fixed to batten screen.

Graphics Detail
FONT
= Helvetica Neue 65 Medium

SIZE
As noted

COLOUR
Translink
Background = Orange
Symbol = Light Orange
Logo = White

Background = Grey
Island name = White

0 500 1000 1500 2000 2500
SCALE 1:50 @ A3
0 50 100 150 200 250
SCALE 1:5 @ A3

2	ISSUED FOR TENDER		14-08-20	
1	DETAILED DESIGN ISSUE		31-07-20	
	Revisions/Descriptions	Certification	Date	Microfiled

CAD FILES | NI

Associated Job Nos

Auxiliary Drg Nos

Survey Data	
Datum	GDA94
Horiz. Grid	MGA Z56
Height Origin	AHD
Survey Books	

Scales

Dimensions shown in millimetres except where shown otherwise

SOUTHERN MORETON BAY
SOUTHERN MORETON BAY ISLANDS
KARRAGARRA ISLAND

FERRY TERMINALS DESIGN

Drawn	AP
Checked	DN
Designed	AP
Design Review	MR
Date	13/08/20

SIGNAGE AND WAYFINDING

ID4a STATION IDENTIFICATION SIGN - ON SHELTER

ENGINEERING CERTIFICATION (RPEQ)

ENG. AREA	NAME	SIGNATURE	NO.	DATE

Queensland Government

File No.	467/00408
Contract. No.	CN-12653
Drawing No.	4824 2
Project No.	TMR29-130

MRM_Detail (05/14) | BN-70-1

ISSUE FOR TENDER

Cardno architectus

Typical Location
Scale 1:50

Graphic Layout
Scale 1:10

Unless otherwise noted all dimensions in millimetres. Use figured dimensions in preference to scaling. Contractor to confirm all dimensions and details on site prior to manufacture.

Attention
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REFERENCE DOCUMENTS
This drawing must be read in conjunction with the following documents:
- Sign Location Plan
- Wayfinding Sign Schedule
- Specification

GENERAL CONSTRUCTION NOTES
- Drawings show design intent. Any changes to specification which affects design intent must be approved by Dot Dash.

- Signmaker to confirm all details for approval on shop drawings prior to manufacture.

Construction Details
1. 50mm aluminium SHS sign frame fixed to gangway structure.

2. 3mm thick aluminium sign panels, 2 pack painted with cut out vinyl graphics and protective satin clear coat on front panel.

3. Back panel to be blank.

Graphics Detail
FONT
= Helvetica Neue 65 Medium

SIZE
As noted

COLOUR
Background = Grey
Text and Pictograms = White

0 500 1000 1500 2000 2500
SCALE 1:50 @ A3
0 100 200 300 400 500
SCALE 1:10 @ A3

2	ISSUED FOR TENDER		14-08-20	
1	DETAILED DESIGN ISSUE		31-07-20	
	Revisions/Descriptions	Certification	Date	Microfiled

CAD FILES | NI

Associated Job Nos
Auxiliary Drg Nos

Survey Data	
Datum	GDA94
Horiz. Grid	MGA Z56
Height Origin	AHD
Survey Books	

Scales
Dimensions shown in millimetres except where shown otherwise

SOUTHERN MORETON BAY
SOUTHERN MORETON BAY ISLANDS
KARRAGARRA ISLAND

FERRY TERMINALS DESIGN

Drawn	AP
Checked	DN
Designed	AP
Design Review	MR
Date	13/08/20

SIGNAGE AND WAYFINDING

ID5a MINOR IDENTIFICATION SIGN - SUSPENDED

ENGINEERING CERTIFICATION (RPEQ)

ENG. AREA	NAME	SIGNATURE	NO.	DATE

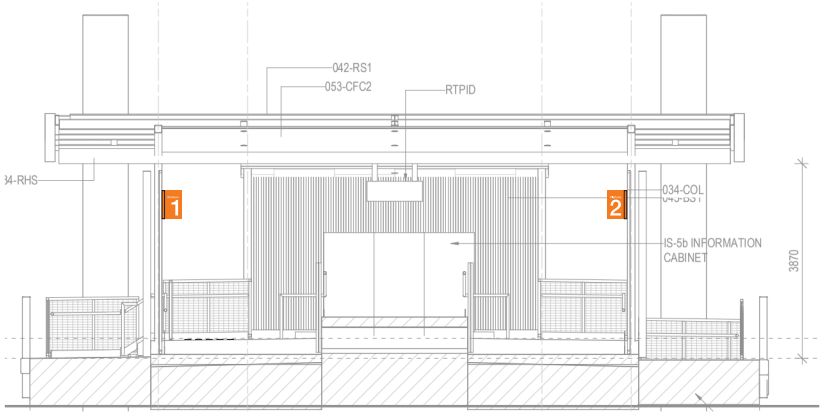
Queensland Government

File No.	467/00408
Contract. No.	CN-12653
Drawing No.	4826 2
Project No.	TMR29-130

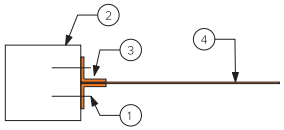
MRM_Detail (05/14) | BN-70-1

ISSUE FOR TENDER

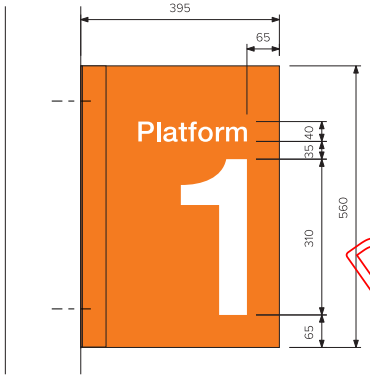
Cardno architectus



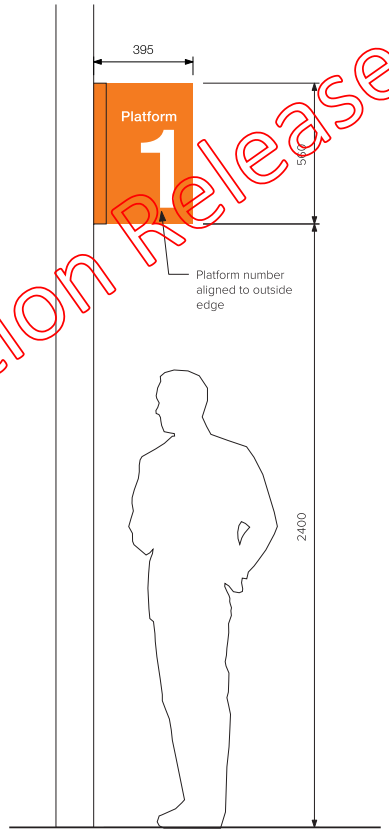
Typical Location
Scale 1:100



TOP VIEW



Construction Detail
Scale 1:10



Typical Location
Scale 1:20

Unless otherwise noted all dimensions in millimetres. Use figured dimensions in preference to scaling. Contractor to confirm all dimensions and details on site prior to manufacture.

Attention
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REFERENCE DOCUMENTS
This drawing must be read in conjunction with the following documents:
- Sign Location Plan
- Wayfinding Sign Schedule
- Specification

GENERAL CONSTRUCTION NOTES
- Drawings show design intent. Any changes to specification which affects design intent must be approved by Dot Dash.

- Signmaker to confirm all details for approval on shop drawings prior to manufacture.

Construction Details
1. 4 off suitable fixings to steel column.

2. Steel column. Refer to architects drawings for details

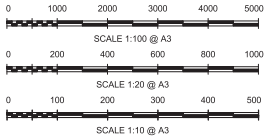
3. 50 x 50 x 6mm aluminium angle bead welded to aluminium sign panel. All visible welds to be dressed, regular and evenly spaced.

4. 5mm thick aluminium sign panel with anti graffiti clear spray coat over front applied vinyl graphics.

Graphics Detail
FONT
= Helvetica Neue 65 Medium

SIZE
As Shown

COLOUR
Panel & angle = Orange
Text & Number = White



2	ISSUED FOR TENDER		14-08-20	
1	DETAILED DESIGN ISSUE		31-07-20	
	Revisions/Descriptions	Certification	Date	Microfiled

CAD FILES | NI

Associated Job Nos
Auxiliary Drg Nos

Survey Data: Datum GDA94; Horiz. Grid MGA Z56; Height Origin AHD; Survey Books

Scales
Dimensions shown in millimetres except where shown otherwise

SOUTHERN MORETON BAY
SOUTHERN MORETON BAY ISLANDS
KARRAGARRA ISLAND

FERRY TERMINALS DESIGN

Drawn AP
Checked DN
Designed AP
Design Review MR
Date 13/08/20

SIGNAGE AND WAYFINDING

ID6a PLATFORM IDENTIFICATION - FIXED TO COLUMN

ENGINEERING CERTIFICATION (RPEQ)

ENG. AREA	NAME	SIGNATURE	NO.	DATE

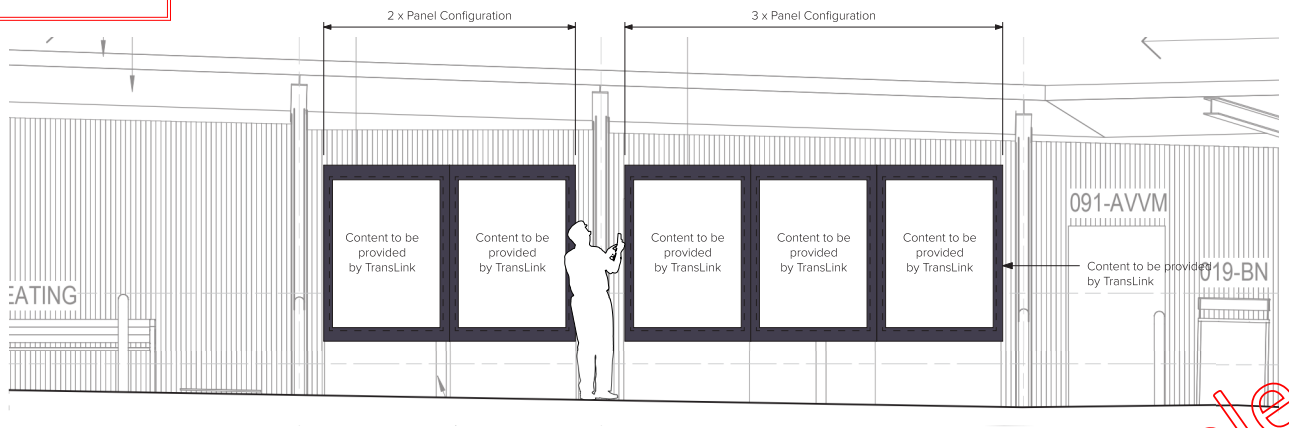
Queensland Government

File No.	467/00408
Contract. No.	CN-12653
Drawing No.	4828 2
Project No.	TMR29-130

MRM_Detail (05/14) BN-70-1

ISSUE FOR TENDER

Cardno architectus



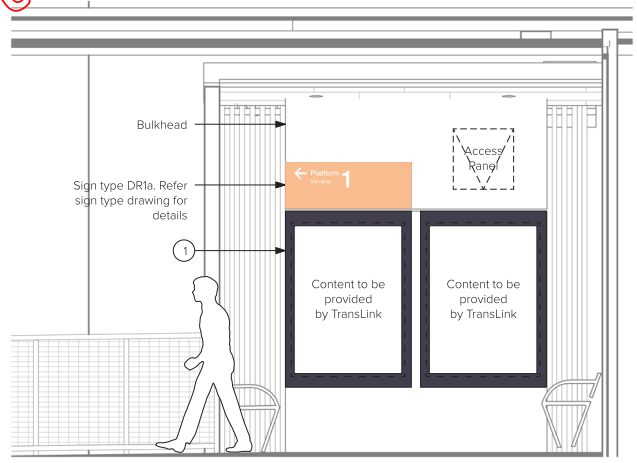
IF2a
2 Panel Configuration - centred between columns on batten wall

IF2b
3 Panel Configuration - centred between columns on batten wall

Typical Location - Landside
Scale 1:50

IF2a
2 Panel Configuration - centred on batten wall (Advertising panel by others)

Typical Location - Double Platform Pontoons
Scale 1:50



IF2a
2 Panel Configuration - centred on batten wall

Typical Location - Single Platform Pontoons
Scale 1:50

Unless otherwise noted all dimensions in millimetres. Use figured dimensions in preference to scaling. Contractor to confirm all dimensions and details on site prior to manufacture.

Attention
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REFERENCE DOCUMENTS
This drawing must be read in conjunction with the following documents:
- Sign Location Plan
- Wayfinding Sign Schedule
- Specification

GENERAL CONSTRUCTION NOTES
- Drawings show design intent. Any changes to specification which affects design intent must be approved by Dot Dash.

- All structural members, fixings and/or footings to be confirmed by sign maker's engineer.

- Signmaker to confirm all details for approval on shop drawings prior to manufacture.

Construction Details
1. Proprietary single sided edge lit illuminated sign case 'X-Position' XP05 (or approved equivalent). Powder coat finish to frame. 5mm toughened glass with reverse painted poster masking.
- Internal illumination via 'Cool White' LED
- Front applied security Gatgard graffiti film over glass.
- Gas strut to hold door open 60° max. (100 Newtons, 235mm Pivot distance)
- keyed alike camlock latch to TransLink specifications
- Hinged and weatherproof cabinet
- Supplier to provide fixing details
- Magnetic poster holder concealed behind masking
- Overall sign case size 1251 x 1750mm

2. Timetables/information posters to be supplied by Translink.

3. Power feed to back of cabinet to run inside support structure and conduit.

NOTE: All dimensions approximate and are to be confirmed. Internal information sign requires isolation switch and circuit breaker/ fuse within light box. Sign should operate during all hours of station operation.

Graphics Detail

COLOUR
Cabinet and front border = Grey

0 500 1000 1500 2000 2500
SCALE 1:50 @ A3

2	ISSUED FOR TENDER		14-08-20	
1	DETAILED DESIGN ISSUE		31-07-20	
	Revisions/Descriptions	Certification	Date	Microfiled

CAD FILES | NI

Associated Job Nos
Auxiliary Drg Nos

Survey Data: Datum GDA94; Horiz. Grid MGA Z56; Height Origin AHD; Survey Books

Scales: Dimensions shown in millimetres except where shown otherwise

SOUTHERN MORETON BAY
SOUTHERN MORETON BAY ISLANDS
KARRAGARRA3 ISLAND

FERRY TERMINALS DESIGN

Drawn AP
Checked DN
Designed AP
Design Review MR
Date 13/08/20

SIGNAGE AND WAYFINDING

IF2a & IF2b INFORMATION CABINETS

ENGINEERING CERTIFICATION (RPEQ)

ENG. AREA	NAME	SIGNATURE	NO.	DATE

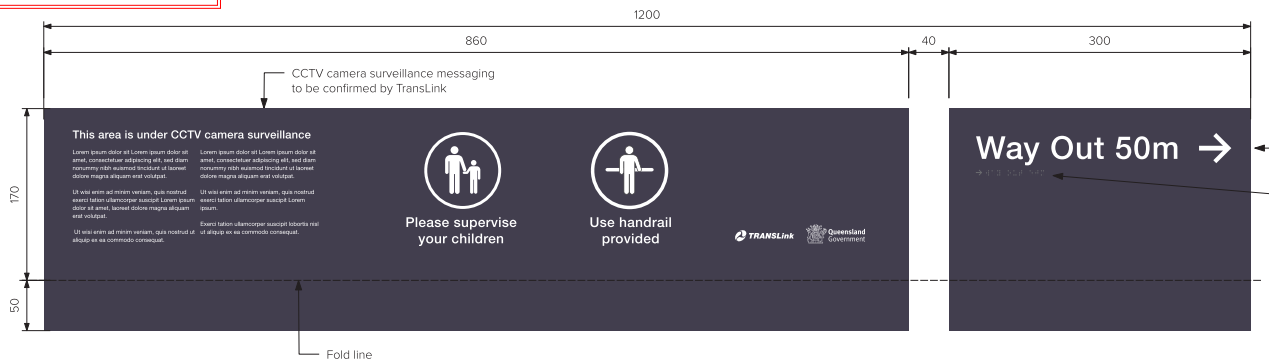
Queensland Government

File No.	467/00408
Contract. No.	CN-12653
Drawing No.	4834 2
Project No.	TMR29-130

MRM_Detail (05/14) BN-70-1

ISSUE FOR TENDER

Cardno architectus



Unless otherwise noted all dimensions in millimetres. Use figured dimensions in preference to scaling. Contractor to confirm all dimensions and details on site prior to manufacture.

Attention
Due to this reproduction process the colours in this image are not exact representations of the final product.

Samples are to be provided prior to manufacture.

Graphics Detail
FONT as noted

SIZE as noted

COLOUR
Sign Panel = Grey
Graphics = White

REFERENCE DOCUMENTS
This drawing must be read in conjunction with the following documents:
- Graphic Reference
- Sign Location Plan
- Wayfinding Sign Schedule
- Specification

GENERAL CONSTRUCTION NOTES
- Drawings show design intent. Any changes to specification which affects design intent must be approved by Dot Dash.

- All structural members, fixings and/or footings to be confirmed by sign maker's engineer.

- Signmaker to confirm all details for approval on shop drawings prior to manufacture.

Construction Details
PANEL 1
1. 6mm thick aluminium sign panel with 55˚ fold. Weld 6mm thick cleats to fix to ballustrade.

2. Panels to be prepared and painted two pack to all visible edges with Semi Gloss finish.

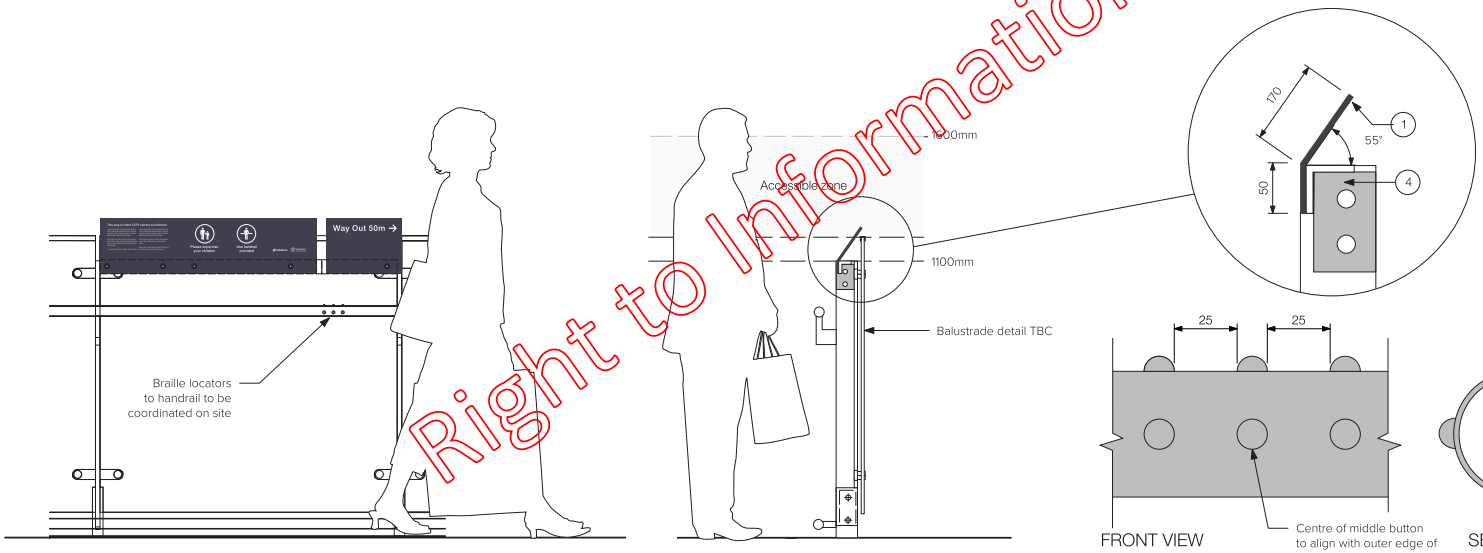
3. Regulations and branding
Direct printed graphics. Graphics produced using exterior/UV resistant inks. Coloured graphics printed over a white opaque base layer to ensure colour accuracy. Protective satin cleacoat spray over face and panels edges. Sample to be provided for approval prior to production.

PANEL 2
4. 6mm thick aluminium sign panel with 55˚ fold. Weld 6mm thick cleats to fix to ballustrade.

5. Braille tactile directional message
1mm raised tactile Trezzini pictogram and text, grade 1 braille to BCA and AS1428.1 requirements. Applied to 2 pack painted 3mm thick aluminium panel, all edges rounded.

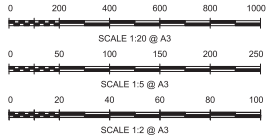
FIXINGS
6. Mounted to wall with silicone and VHB double sided tape.

Graphic Detail
Scale 1:5



Typical Elevations
Scale 1:20

Typical Handrail detail
Scale 1:2



2	ISSUED FOR TENDER		14-08-20	
1	DETAILED DESIGN ISSUE		31-07-20	
	Revisions/Descriptions	Certification	Date	Microfiled

CAD FILES | NI

Associated Job Nos

Auxiliary Drg Nos

Survey Data

Datum	GDA94
Horiz. Grid	MGA Z56
Height Origin	AHD
Survey Books	

Scales

Dimensions shown in millimetres except where shown otherwise

SOUTHERN MORETON BAY
SOUTHERN MORETON BAY ISLANDS
KARRAGARRA ISLAND

FERRY TERMINALS DESIGN

Drawn	AP
Checked	DN
Designed	AP
Design Review	MR
Date	13/08/20

SIGNAGE AND WAYFINDING

RG1a MINOR REGULATORY ADVICE - BALUSTRADE MOUNTED

ENGINEERING CERTIFICATION (RPEQ)

ENG. AREA	NAME	SIGNATURE	NO.	DATE

Queensland Government

File No.	467/00408
Contract. No.	CN-12653
Drawing No.	4838 2
Project No.	TMR29-130

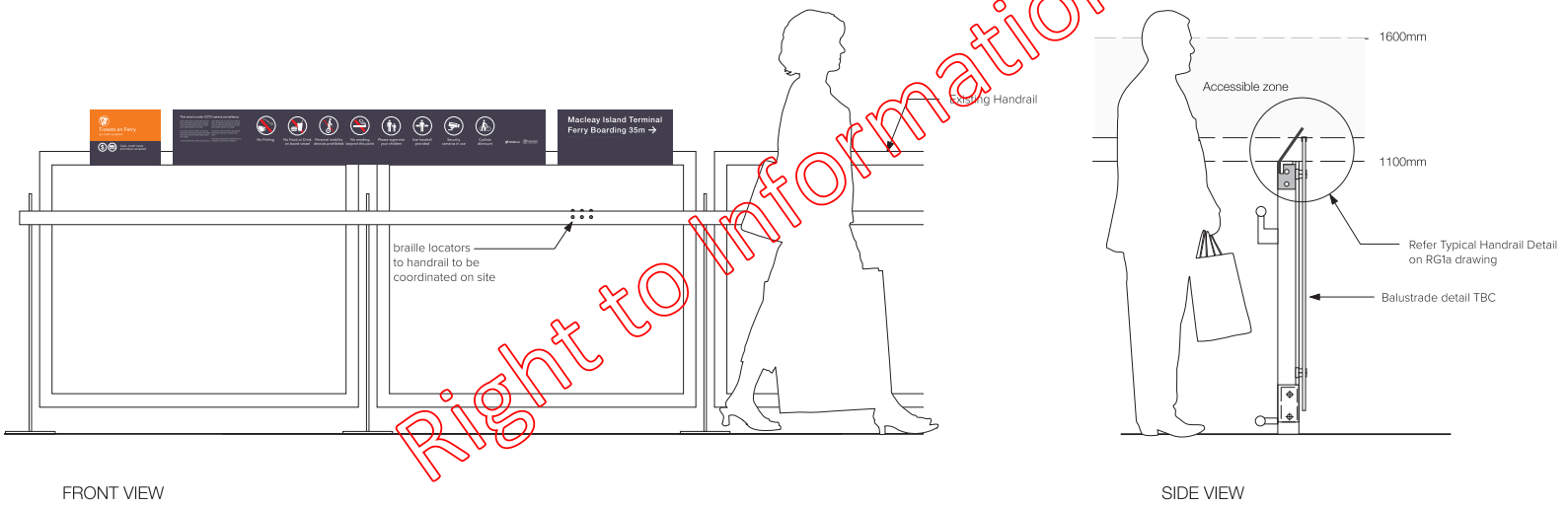
MRM_Detail (05/14) | BN-70-1

ISSUE FOR TENDER

Cardno architectus

Typical Layout

Scale 1:10



Typical Elevations

Scale 1:20

Graphics Detail
FONT as noted

SIZE as noted

COLOUR
Sign Panel = Grey
Tickets Sign Panel = Orange
Graphics = White

Unless otherwise noted all dimensions in millimetres. Use figured dimensions in preference to scaling. Contractor to confirm all dimensions and details on site prior to manufacture.

Attention
Due to this reproduction process the colours in this image are not exact representations of the final product.

REFERENCE DOCUMENTS
This drawing must be read in conjunction with the following documents:
- Graphic Reference
- Sign Location Plan
- Wayfinding Sign Schedule
- Specification

GENERAL CONSTRUCTION NOTES
- Drawings show design intent. Any changes to specification which affects design intent must be approved by Dot Dash.

- All structural members, fixings and/or footings to be confirmed by sign maker's engineer.

- Signmaker to confirm all details for approval on shop drawings prior to manufacture.

Construction Details
PANELS 1 & 2
1. 2mm thick aluminium sign panel

2. Panels to be prepared and painted two pack to all visible edges with Semi Gloss finish.

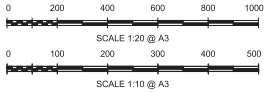
3. Regulations and branding
Direct printed graphics. Graphics produced using exterior/UV resistant inks. Coloured graphics printed over a white opaque base layer to ensure colour accuracy. Protective satin cleacoat spray over face and panels edges. Sample to be provided for approval prior to production.

PANEL 3
4. 2mm thick aluminium sign panel

5. Braille tactile directional message
1mm raised tactile Trezzini pictogram and text, grade 1 braille to BCA and AS1428.1 requirements. Applied to 2 pack painted 3mm thick aluminium panel, all edges rounded.

FIXINGS
6. Mounted to steel support with silicone and VHB double sided tape.

Samples are to be provided prior to manufacture.



2	ISSUED FOR TENDER		14-08-20	
1	DETAILED DESIGN ISSUE		31-07-20	
	Revisions/Descriptions	Certification	Date	Microfiled

CAD FILES | NI

Associated Job Nos	
Auxiliary Drg Nos	

Survey Data	
Datum	GDA94
Horiz. Grid	MGA Z56
Height Origin	AHD
Survey Books	

Scales

Dimensions shown in millimetres except where shown otherwise

SOUTHERN MORETON BAY
SOUTHERN MORETON BAY ISLANDS
KARRAGARRA ISLAND

FERRY TERMINALS DESIGN

Drawn	AP
Checked	DN
Designed	AP
Design Review	MR
Date	13/08/20

SIGNAGE AND WAYFINDING

RG1b MAJOR REGULATORY ADVICE - BALUSTRADE MOUNTED

ENGINEERING CERTIFICATION (RPEQ)

ENG. AREA	NAME	SIGNATURE	NO.	DATE

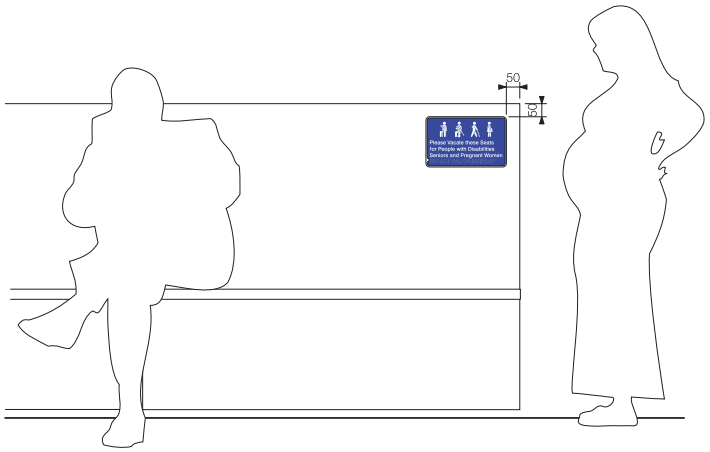
Queensland Government

File No.	467/00408
Contract. No.	CN-12653
Drawing No.	4840 2
Project No.	TMR29-130

MRM_Detail (05/14) | BN-70-1

ISSUE FOR TENDER

Cardno architectus



Typical Elevation
Scale 1:20

Braille =
Please vacate these seats for people with disabilities, seniors and pregnant women

Graphic Layout
Scale 1:2

Unless otherwise noted all dimensions in millimetres. Use figured dimensions in preference to scaling. Contractor to confirm all dimensions and details on site prior to manufacture.

Attention
Due to this reproduction process the colours in this image are not exact representations of the final product.

REFERENCE DOCUMENTS
This drawing must be read in conjunction with the following documents:
- Sign Location Plan
- Wayfinding Sign Schedule
- Specification

GENERAL CONSTRUCTION NOTES
- Drawings show design intent. Any changes to specification which affects design intent must be approved by Dot Dash.

- Signmaker to confirm all details for approval on shop drawings prior to manufacture.

- Tactile and Braille Messages
Tactile and Braille signs must comply with the BCA Specification D3.6. Braille must be grade 1 Braille (uncontracted) in accordance with the Australian Braille Authority. It is the responsibility of the contractor to ensure that all Braille is accurately translated and formatted for nonstandard messages. Consult Vision Australia for message conversion / site services. Contact ph - 07 3391 9191.

Construction Details
Vacate Seats Tactile panel
1. Raised Braille and tactile sign panel 'Visualise - Pitt & Co', 'Pictobraille' on a 1.6mm thick acrylic panel.

2. 1mm raised Trezzini graphics and letters, all edges to be rounded. Grade 1 Braille to BCA and AS1428.1 requirements, ball bearing domes located 8mm below letters. Text and pictograms laser cut and then glued into laser cut shapes in panel surface.

Wall / cladding mounted fixing
3. Panel fixed to wall with VHB double sided tape and silicone.

Graphics Detail
FONT
Arial

SIZE as noted

COLOUR
Background = Two Pack paint to match AS Ultramarine Blue 2700
Symbols & Text = White

0 200 400 600 800 1000
SCALE 1:20 @ A3

0 20 40 60 80 100
SCALE 1:2 @ A3

2	ISSUED FOR TENDER		14-08-20	
1	DETAILED DESIGN ISSUE		31-07-20	
	Revisions/Descriptions	Certification	Date	Microfiled

CAD FILES | NI

Associated Job Nos

Auxiliary Drg Nos

Survey Data: Datum GDA94; Horiz. Grid MGA Z56; Height Origin AHD; Survey Books

Scales
Dimensions shown in millimetres except where shown otherwise

SOUTHERN MORETON BAY
SOUTHERN MORETON BAY ISLANDS
KARRAGARRA ISLAND

FERRY TERMINALS DESIGN

Drawn AP
Checked DN
Designed AP
Design Review MR
Date 13/08/20

SIGNAGE AND WAYFINDING

RG2a REGULATORY SIGN - VACATE SEAT

ENGINEERING CERTIFICATION (RPEQ)

ENG. AREA	NAME	SIGNATURE	NO.	DATE

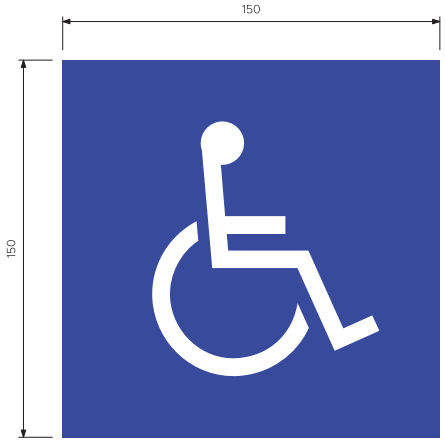
Queensland Government

File No.	467/00408
Contract. No.	CN-12653
Drawing No.	4842 2
Project No.	TMR29-130

MRM_Detail (05/14) BN-70-1

ISSUE FOR TENDER

Cardno architectus



Graphic Layout
Scale 1:2

Unless otherwise noted all dimensions in millimetres. Use figured dimensions in preference to scaling. Contractor to confirm all dimensions and details on site prior to manufacture.

Attention
Due to this reproduction process the colours in this image are not exact representations of the final product.

REFERENCE DOCUMENTS
This drawing must be read in conjunction with the following documents:
- Sign Location Plan
- Wayfinding Sign Schedule
- Specification

GENERAL CONSTRUCTION NOTES
- Drawings show design intent. Any changes to specification which affects design intent must be approved by Dot Dash.

- Signmaker to confirm all details for approval on shop drawings prior to manufacture.

- Tactile and Braille Messages
Tactile and Braille signs must comply with the BCA Specification D3.6. Braille must be grade 1 Braille (uncontracted) in accordance with the Australian Braille Authority. It is the responsibility of the contractor to ensure that all Braille is accurately translated and formatted for nonstandard messages. Consult Vision Australia for message conversion / site services. Contact ph - 07 3391 9191.

Construction Details
1. 2mm thick aluminium sign panel.

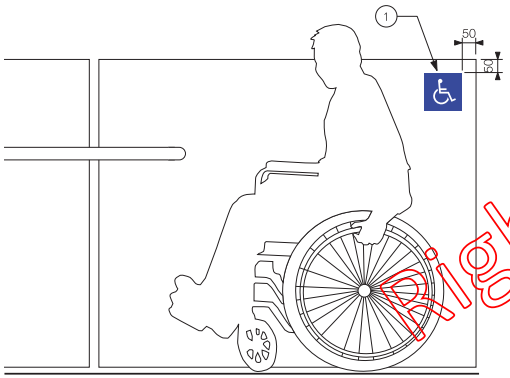
2. Panel to be prepared and painted two pack to all sides & edges with Semi Gloss finish.

3. Front applied vinyl graphics with protective satin clearcoat spray over face and panels edges.

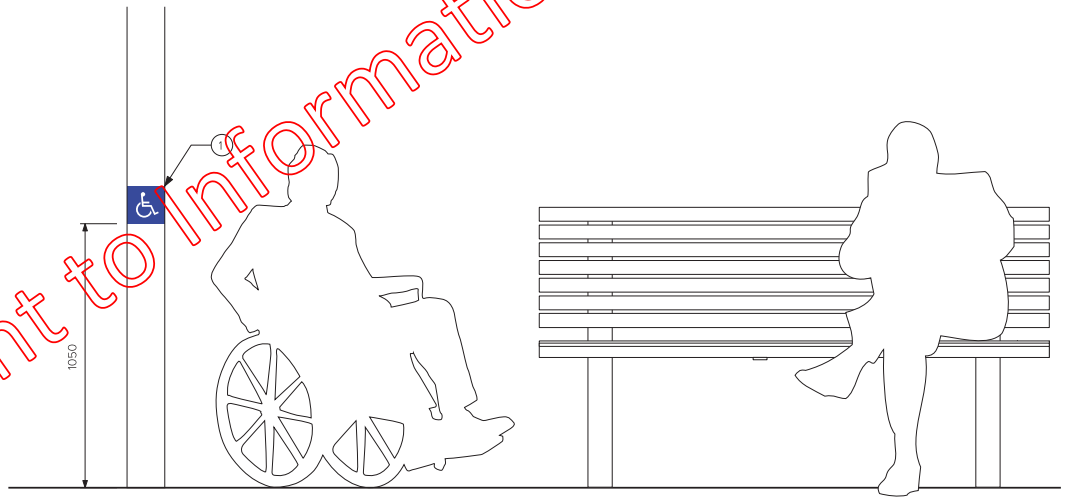
Wall / cladding mounted fixing
4. Panel fixed to wall with VHB double sided tape and silicone.

Graphics Detail
SIZE
As noted

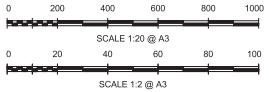
COLOUR
Typical
Background = Two Pack paint to match AS Ultramarine Blue 2700
Symbols & Text = White



Typical Location - Mounted to Balustrade
Scale 1:20



Typical Location - Mounted to Column
Scale 1:20



2	ISSUED FOR TENDER		14-08-20	
1	DETAILED DESIGN ISSUE		31-07-20	
	Revisions/Descriptions	Certification	Date	Microfiled

CAD FILES | NI

Associated Job Nos
Auxiliary Drg Nos

Survey Data

Datum	GDA94
Horiz. Grid	MGA Z56
Height Origin	AHD
Survey Books	

Scales
Dimensions shown in millimetres except where shown otherwise

SOUTHERN MORETON BAY
SOUTHERN MORETON BAY ISLANDS
KARRAGARRA ISLAND

FERRY TERMINALS DESIGN

Drawn	AP
Checked	DN
Designed	AP
Design Review	MR
Date	13/08/20

SIGNAGE AND WAYFINDING

RG2b REGULATORY SIGN - PWD ZONE

ENGINEERING CERTIFICATION (RPEQ)

ENG. AREA	NAME	SIGNATURE	NO.	DATE

Queensland Government

File No.	467/00408
Contract. No.	CN-12653
Drawing No.	4844 2
Project No.	TMR29-130

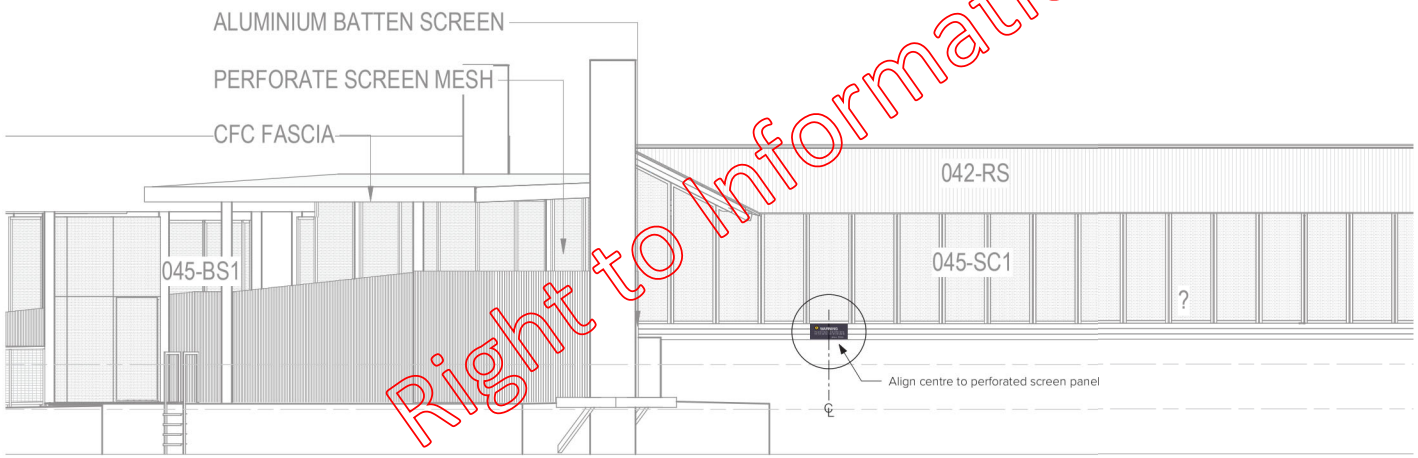
MRM_Detail (05/14) BN-70-1

ISSUE FOR TENDER

Cardno architectus

Graphic Layout

Scale 1:5



Typical Location

Scale 1:100

Unless otherwise noted all dimensions in millimetres. Use figured dimensions in preference to scaling. Contractor to confirm all dimensions and details on site prior to manufacture.

Attention
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REFERENCE DOCUMENTS
This drawing must be read in conjunction with the following documents:
- Sign Location Plan
- Wayfinding Sign Schedule
- Specification

GENERAL CONSTRUCTION NOTES
- Drawings show design intent. Any changes to specification which affects design intent must be approved by Dot Dash.

- Signmaker to confirm all details for approval on shop drawings prior to manufacture.

Construction Details
1. 2mm aluminium sign panel two pack painted finish.

2. Graphics to be front applied external grade cast vinyl.

3. Mounted to pontoon fender using VHB double sided tape and silicone.

Graphics Detail
FONT
Helvetica Neue Medium
Helvetica Neue Roman

SIZE
As noted

COLOUR
Sign Panel Background = Grey
Graphics = White
Text = White
Warning Symbol = Yellow and Black

0 1000 2000 3000 4000 5000
SCALE 1:100 @ A3

0 50 100 150 200 250
SCALE 1:5 @ A3

2	ISSUED FOR TENDER		14-08-20	
1	DETAILED DESIGN ISSUE		31-07-20	
	Revisions/Descriptions	Certification	Date	Microfiled

CAD FILES: Nil

Associated Job Nos
Auxiliary Drg Nos

Survey Data: Datum GDA94; Horiz. Grid MGA Z56; Height Origin AHD; Survey Books

Scales: Dimensions shown in millimetres except where shown otherwise

SOUTHERN MORETON BAY
SOUTHERN MORETON BAY ISLANDS
KARRAGARRA ISLAND

FERRY TERMINALS DESIGN

Drawn AP
Checked DN
Designed AP
Design Review MR
Date 13/08/20

SIGNAGE AND WAYFINDING

RG3a REGULATORY SIGN - GANGWAY WARNING

ENGINEERING CERTIFICATION (RPEQ)

ENG. AREA	NAME	SIGNATURE	NO.	DATE

Queensland Government

File No. 467/00408
Contract No. CN-12653
Drawing No. 4846 2
Project No. TMR29-130
MRM_Detail (05/14) BN-70-1

ISSUE FOR TENDER

Cardno architectus

1100

Warning message to be confirmed by TransLink

WARNING

This pontoon may rise or lower without warning

On this pontoon, landing stage or waiting shed it is forbidden to,
Moor boats or dinghies
Fish, loiter or post bills
Dive or swim within 10 metres
Row, paddle or steer craft under gangway

OFFENDERS WILL BE PROSECUTED

This structure is designed for mooring of a maximum of two CityFerry vessels

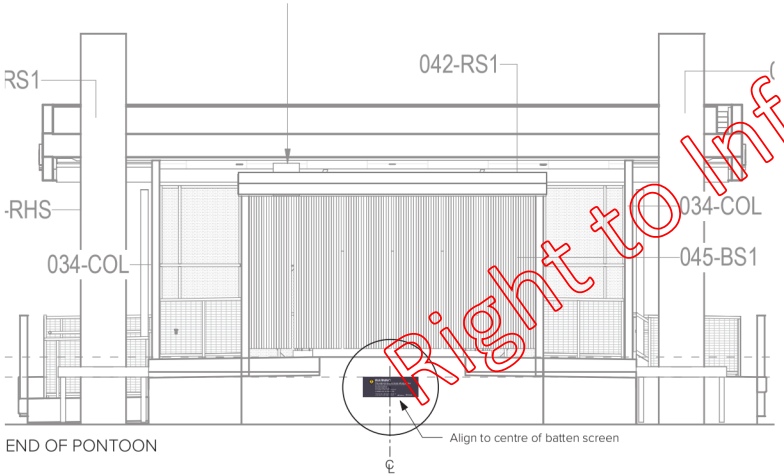
TRANSLink

Queensland Government

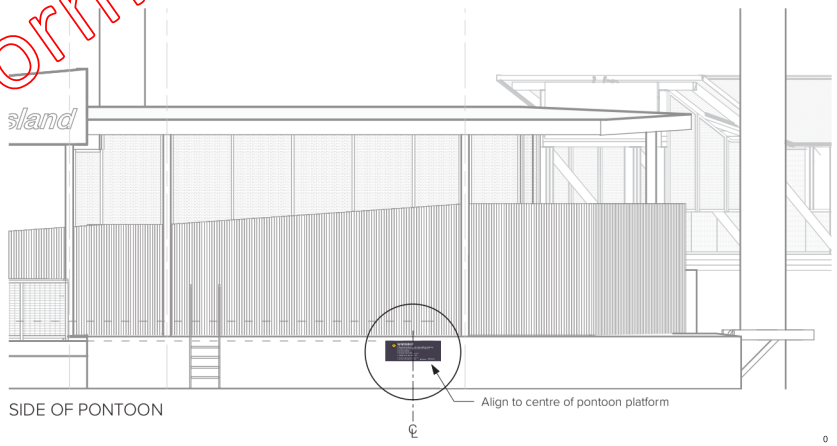
400

Graphic Layout

Scale 1:5



END OF PONTOON



SIDE OF PONTOON

Typical Locations

Scale 1:100

Unless otherwise noted all dimensions in millimetres. Use figured dimensions in preference to scaling. Contractor to confirm all dimensions and details on site prior to manufacture.

Attention
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REFERENCE DOCUMENTS
This drawing must be read in conjunction with the following documents:
- Sign Location Plan
- Wayfinding Sign Schedule
- Specification

GENERAL CONSTRUCTION NOTES
- Drawings show design intent. Any changes to specification which affects design intent must be approved by Dot Dash.

- Signmaker to confirm all details for approval on shop drawings prior to manufacture.

Construction Details
1. 2mm aluminium sign panel two pack painted finish.

2. Graphics to be front applied external grade cast vinyl.

3. Mounted to pontoon fender using VHB double sided tape and silicone.

Graphics Detail
FONT
Helvetica Neue Medium
Helvetica Neue Roman

SIZE
As noted

COLOUR
Sign Panel Background = Grey
Warning Symbol = Yellow and Black
Text = White
Logos = White

0 1000 2000 3000 4000 5000
SCALE 1:100 @ A3

0 50 100 150 200 250
SCALE 1:5 @ A3

2	ISSUED FOR TENDER		14-08-20	
1	DETAILED DESIGN ISSUE		31-07-20	
	Revisions/Descriptions	Certification	Date	Microfiled

CAD FILES | Nil

Associated Job Nos
Auxiliary Drg Nos

Survey Data: Datum GDA94; Horiz. Grid MGA Z56; Height Origin AHD; Survey Books

Scales
Dimensions shown in millimetres except where shown otherwise

SOUTHERN MORETON BAY
SOUTHERN MORETON BAY ISLANDS
KARRAGARRA ISLAND

FERRY TERMINALS DESIGN

Drawn AP
Checked DN
Designed AP
Design Review MR
Date 13/08/20

SIGNAGE AND WAYFINDING

RG3b REGULATORY SIGN - PONTOON WARNING

ENGINEERING CERTIFICATION (RPEQ)

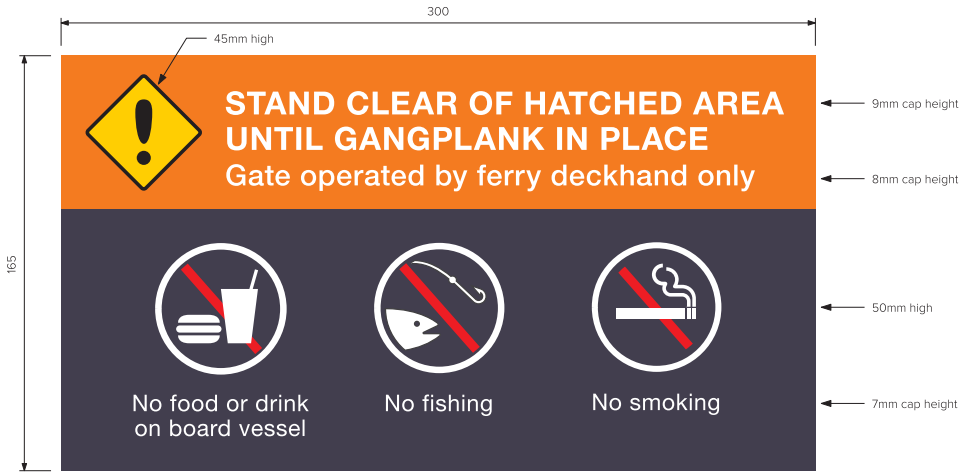
ENG. AREA	NAME	SIGNATURE	NO.	DATE

Queensland Government

File No.	467/00408
Contract. No.	CN-12653
Drawing No.	4848 2
Project No.	TMR29-130
MRM_Detail (05/14)	BN-70-1

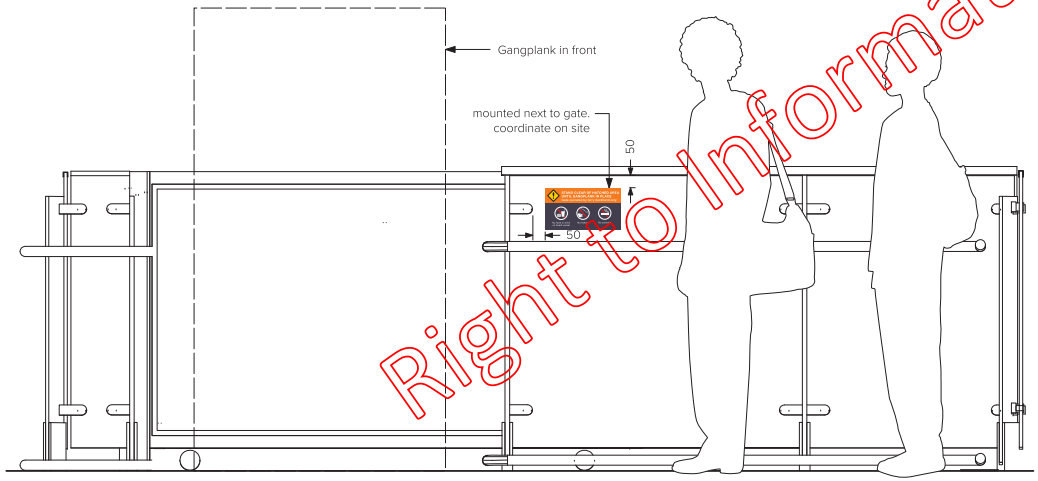
ISSUE FOR TENDER

Cardno architectus



Graphic Layout

Scale 1:2



Typical Location

Scale 1:20

Unless otherwise noted all dimensions in millimetres. Use figured dimensions in preference to scaling. Contractor to confirm all dimensions and details on site prior to manufacture.

Attention
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REFERENCE DOCUMENTS
This drawing must be read in conjunction with the following documents:
- Sign Location Plan
- Wayfinding Sign Schedule
- Specification

GENERAL CONSTRUCTION NOTES
- Drawings show design intent. Any changes to specification which affects design intent must be approved by Dot Dash.

- Signmaker to confirm all details for approval on shop drawings prior to manufacture.

Construction Details

1. Digital printed decal to white vinyl with protective over laminate.

2. Applied to ballustrade at corner adjacent to gate.

Samples are to be provided prior to manufacture.

Graphics Detail
FONT
= Helvetica Neue 75 Bold
= Helvetica Neue 65 Medium
= Helvetica Neue 55 Roman

SIZE
As shown

COLOUR
Background upper = Orange
Background lower = Grey
Graphics = White

0 20 40 60 80 100
SCALE 1:2 @ A3
0 200 400 600 800 1000
SCALE 1:20 @ A3

2	ISSUED FOR TENDER		14-08-20	
1	DETAILED DESIGN ISSUE		31-07-20	
	Revisions/Descriptions	Certification	Date	Microfiled

CAD FILES | NI

Associated Job Nos

Auxiliary Drg Nos

Survey Data: Datum GDA94; Horiz. Grid MGA Z56; Height Origin AHD; Survey Books

Scales
Dimensions shown in millimetres except where shown otherwise

SOUTHERN MORETON BAY
SOUTHERN MORETON BAY ISLANDS
KARRAGARRA ISLAND

FERRY TERMINALS DESIGN

Drawn AP
Checked DN
Designed AP
Design Review MR
Date 13/08/20

SIGNAGE AND WAYFINDING

RG4a REGULATORY SIGN - GATE WARNING

ENGINEERING CERTIFICATION (RPEQ)

ENG. AREA	NAME	SIGNATURE	NO.	DATE

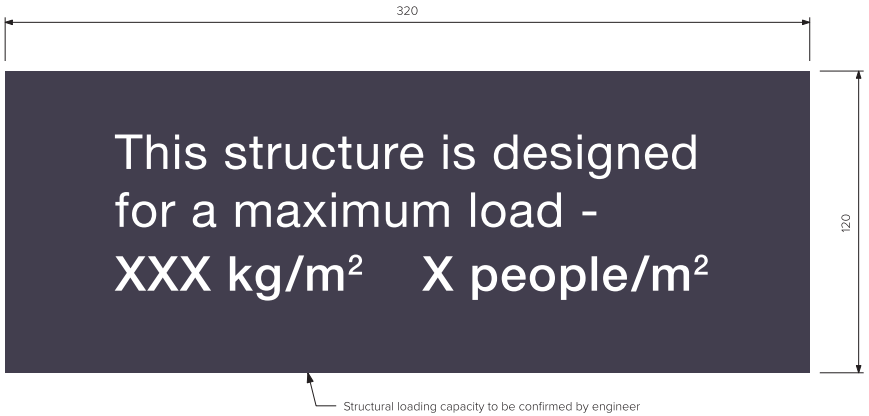
Queensland Government

File No.	467/00408
Contract. No.	CN-12653
Drawing No.	4850 2
Project No.	TMR29-130

MRM_Detail (05/14) BN-70-1

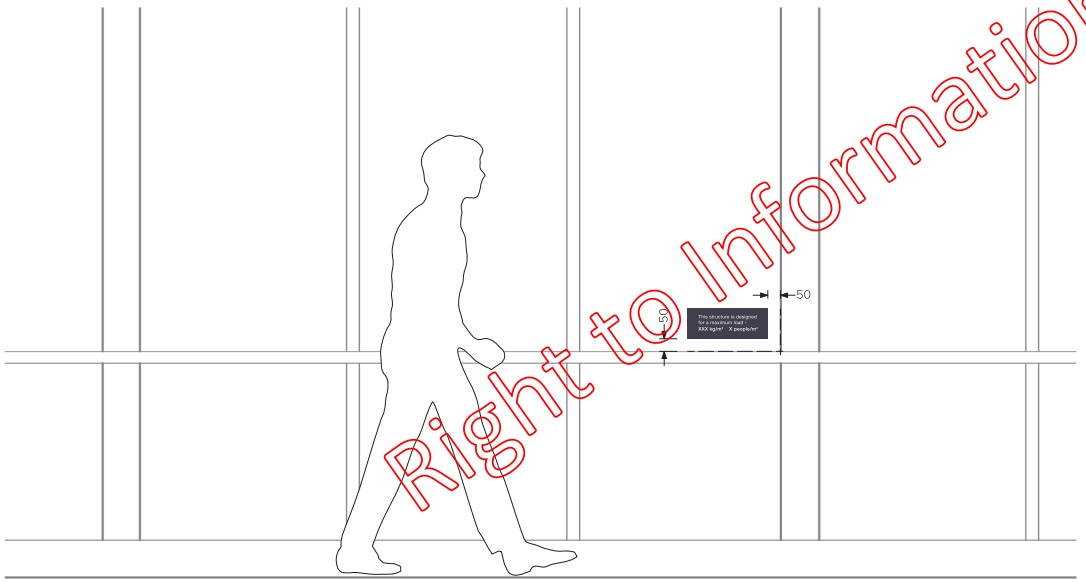
ISSUE FOR TENDER

Cardno architectus



Graphic Layout

Scale 1:2



Typical Location

Scale 1:20

Unless otherwise noted all dimensions in millimetres. Use figured dimensions in preference to scaling. Contractor to confirm all dimensions and details on site prior to manufacture.

Attention
Due to this reproduction process the colours in this image are not exact representations of the final product.

REFERENCE DOCUMENTS
This drawing must be read in conjunction with the following documents:
- Graphic Reference
- Sign Location Plan
- Wayfinding Sign Schedule
- Specification

GENERAL CONSTRUCTION NOTES
- Drawings show design intent. Any changes to specification which affects design intent must be approved by Dot Dash.

- Signmaker to confirm all details for approval on shop drawings prior to manufacture.

Construction Details
1. 2mm aluminium painted sign panel.

2. Front applied vinyl graphics with anti-graffiti clear coat painted over.

3. Mounting surface. Prepare surface free from dust, dirt, oil & grease prior to fixing. Sign panel adhered to wall/door with 3M VHB double sided tape & silicone.

Graphics Detail
FONT
= Helvetica Neue 55 Roman
= Helvetica Neue 65 Medium

SIZE
Text = 14mm cap height

COLOUR
Background = Grey
Graphics = White

0 20 40 60 80 100
SCALE 1:2 @ A3
0 200 400 600 800 1000
SCALE 1:20 @ A3

2	ISSUED FOR TENDER		14-08-20	
1	DETAILED DESIGN ISSUE		31-07-20	
	Revisions/Descriptions	Certification	Date	Microfiled

CAD FILES | NI

Associated Job Nos

Auxiliary Drg Nos

Survey Data	
Datum	GDA94
Horiz. Grid	MGA Z56
Height Origin	AHD
Survey Books	

Scales

Dimensions shown in millimetres except where shown otherwise

SOUTHERN MORETON BAY
SOUTHERN MORETON BAY ISLANDS
KARRAGARRA ISLAND

FERRY TERMINALS DESIGN

Drawn	AP
Checked	DN
Designed	AP
Design Review	MR
Date	13/08/20

SIGNAGE AND WAYFINDING

RG5a REGULATORY SIGN - STRUCTURAL LOADING

ENGINEERING CERTIFICATION (RPEQ)

ENG. AREA	NAME	SIGNATURE	NO.	DATE

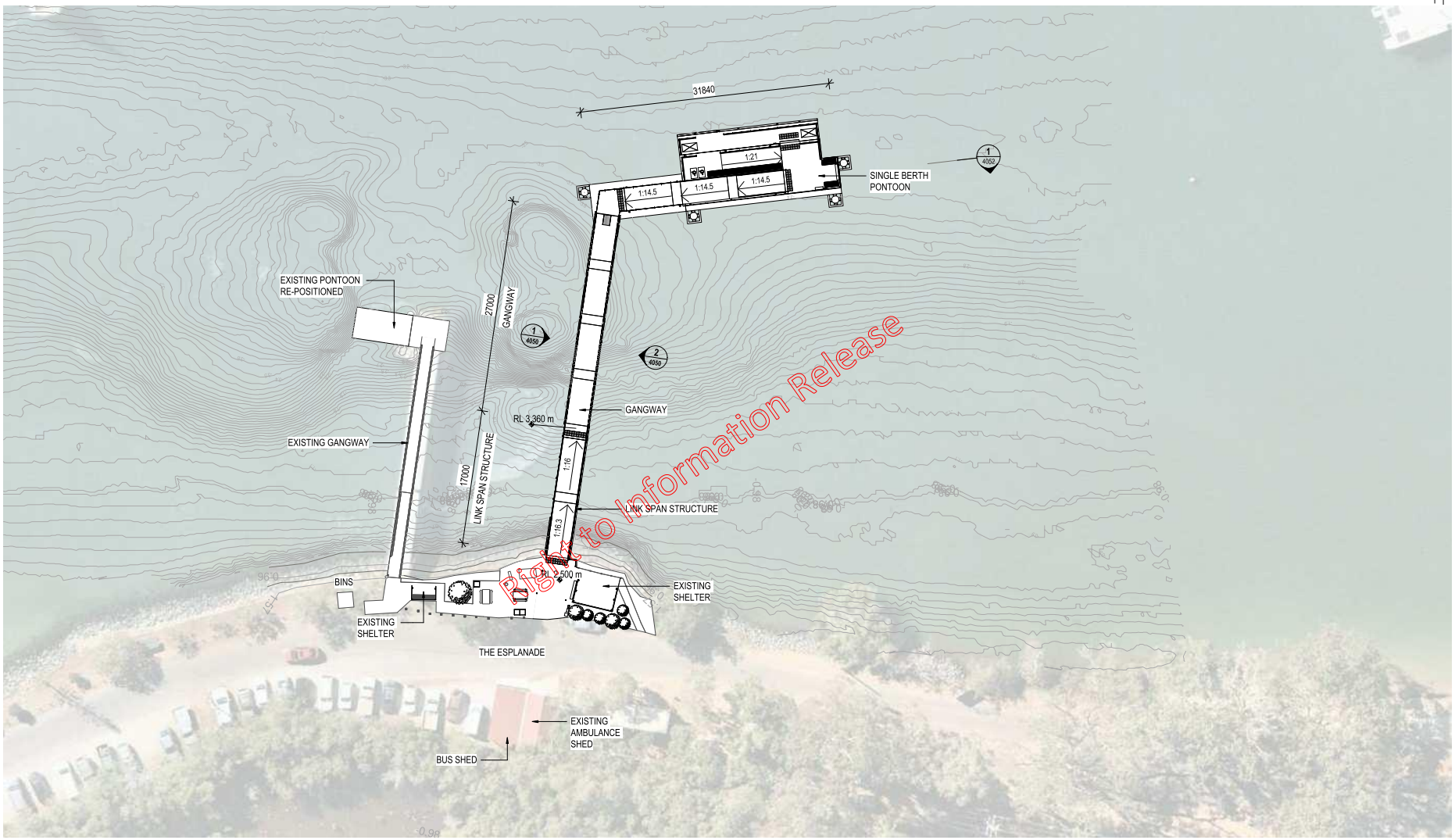
Queensland Government

File No.	467/00408
Contract. No.	CN-12653
Drawing No.	4852 2
Project No.	TMR29-130

MRM_Detail (05/14) | BN-70-1

PRELIMINARY

Cardno architectus



0 250 500 750 1000 1250

SCALE 1:250

4	PD REVISED LAYOUT ISSUE		14-04-20	
3	PRELIMINARY DESIGN RE-ISSUE		15-01-20	
2	PRELIMINARY DESIGN ISSUE		08-11-19	
1	ISSUED FOR INTERNAL REVIEW - QS		25-10-19	
	Revisions/Descriptions	Certification	Date	Microfiled

CAD FILES | BIM 360://7905-29 SMBI Ferry Terminal Designs/46700408 - SMBI - Karragarra Island - A - Site and Jetty.rvt

Last Modified :- 14/04/2020 5:51:33 PM

Associated Job Nos

Auxiliary Drg Nos

Survey Data

Datum	GDA94
Horiz. Grid	MGA Z56
Height Origin	AHD
Survey Books	

Scales

Dimensions shown in millimetres except where shown otherwise

SOUTHERN MORETON BAY
SOUTHERN MORETON BAY ISLANDS
KARRAGARRA ISLAND

FERRY TERMINALS DESIGN

Drawn	ML
Checked	AR
Designed	AR
Design Review	
Date	14-04-20

ARCHITECTURAL

PROPOSED SITE PLAN

ENGINEERING CERTIFICATION (RPEQ)

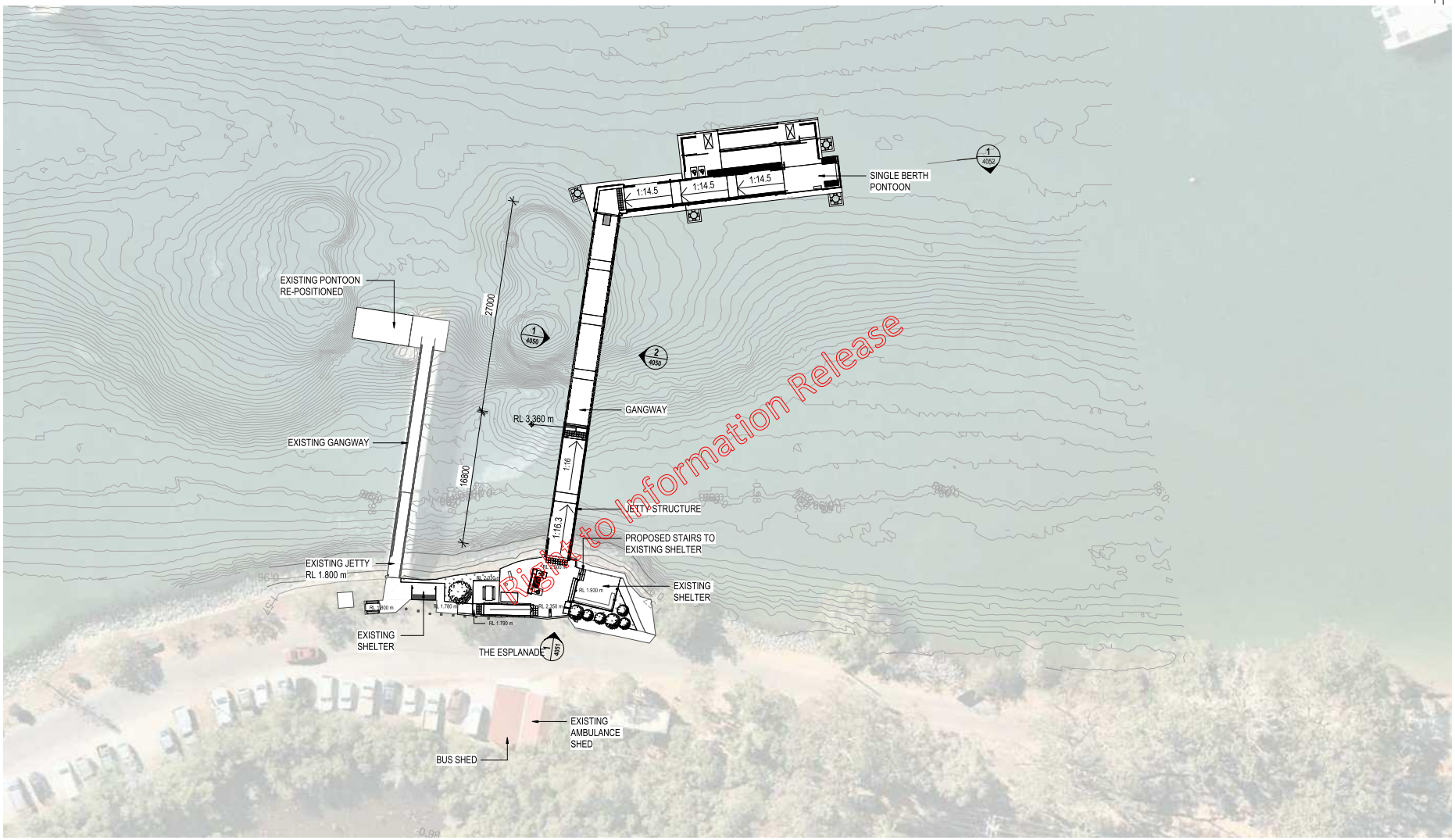
ENG. AREA	NAME	SIGNATURE	NO.	DATE

Queensland Government

File No.	467/00408
Contract. No.	CN-12653
Drawing No.	4012 | 4
Project No.	TMR29-130
MRM_Detail (05/14)	BN-70-1

PRELIMINARY

Cardno architectus



0 500 1000 1500 2000 2500

SCALE 1:250

5	REVISED LANDSIDE LAYOUT		25-06-20	
4	PD REVISED LAYOUT ISSUE		14-04-20	
3	PRELIMINARY DESIGN RE-ISSUE		15-01-20	
2	PRELIMINARY DESIGN ISSUE		08-11-19	
1	ISSUED FOR INTERNAL REVIEW - QS		25-10-19	
	Revisions/Descriptions	Certification	Date	Microfiled

CAD FILES: BIM 360://7905-29 SMBI Ferry Terminal Designs/46700408 - SMBI - Karragarra Island - A - Site and Jetty.rvt

Associated Job Nos

Auxiliary Drg Nos

Survey Data: Datum GDA94; Horiz. Grid MGA Z56; Height Origin AHD; Survey Books

Scales

Dimensions shown in millimetres except where shown otherwise

SOUTHERN MORETON BAY
SOUTHERN MORETON BAY ISLANDS
KARRAGARRA ISLAND

FERRY TERMINALS DESIGN

Drawn ML
Checked AR
Designed AR
Design Review
Date 25-06-20

ARCHITECTURAL

PROPOSED SITE PLAN

ENGINEERING CERTIFICATION (RPEQ)

ENG. AREA	NAME	SIGNATURE	NO.	DATE

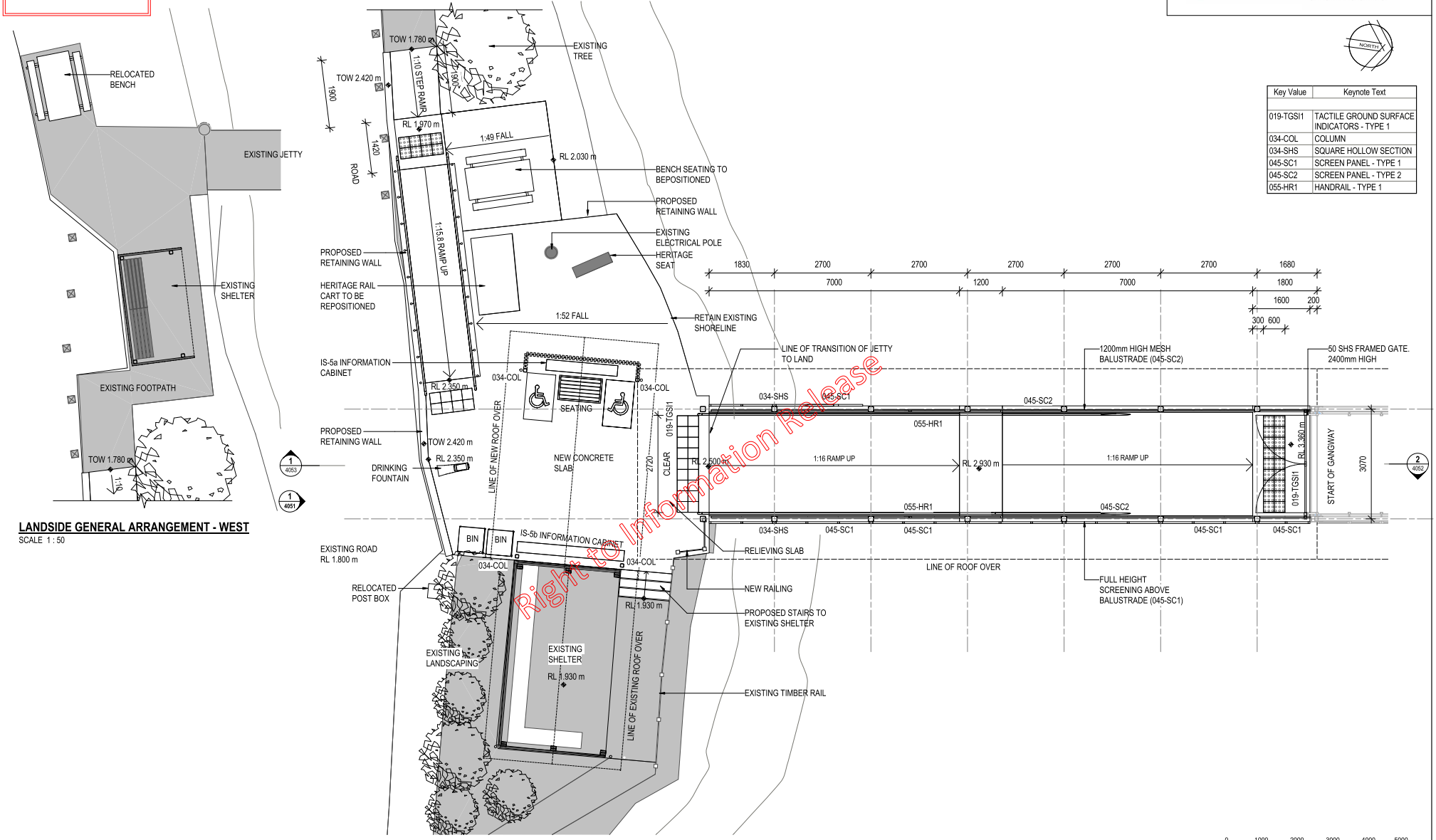
Queensland Government

File No.	467/00408
Contract. No.	CN-12653
Drawing No.	4012 5
Project No.	TMR29-130
MRM_Detail (05/14)	BN-70-1

Last Modified :- 26/06/2020 11:23:28 AM

PRELIMINARY

Cardno architectus



Key Value	Keynote Text
019-TGSI1	TACTILE GROUND SURFACE INDICATORS - TYPE 1
034-COL	COLUMN
034-SHS	SQUARE HOLLOW SECTION
045-SC1	SCREEN PANEL - TYPE 1
045-SC2	SCREEN PANEL - TYPE 2
055-HR1	HANDRAIL - TYPE 1

LANDSIDE GENERAL ARRANGEMENT - WEST
SCALE 1 : 50

LANDSIDE GENERAL ARRANGEMENT
SCALE 1 : 50

0 1000 2000 3000 4000 5000
SCALE 1:50

5	REVISED LANDSIDE LAYOUT		25-06-20	
4	PD REVISED LAYOUT ISSUE		14-04-20	
3	PRELIMINARY DESIGN RE-ISSUE		15-01-20	
2	PRELIMINARY DESIGN ISSUE		08-11-19	
1	ISSUED FOR INTERNAL REVIEW - QS		25-10-19	
	Revisions/Descriptions	Certification	Date	Microfiled

CAD FILES: BIM 360://7905-29 SMBI Ferry Terminal Designs/46700408 - SMBI - Karragarra Island - A - Site and Jetty.rvt

Associated Job Nos
Auxiliary Drg Nos

Survey Data: Datum GDA94; Horiz. Grid MGA Z56; Height Origin AHD; Survey Books

Scales
Dimensions shown in millimetres except where shown otherwise

SOUTHERN MORETON BAY
SOUTHERN MORETON BAY ISLANDS
KARRAGARRA ISLAND

FERRY TERMINALS DESIGN

Drawn ML
Checked AR
Designed AR
Design Review
Date 25-06-20

ARCHITECTURAL
LANDSIDE AND JETTY
GENERAL ARRANGEMENT

ENGINEERING CERTIFICATION (RPEQ)

ENG. AREA	NAME	SIGNATURE	NO.	DATE

Queensland Government

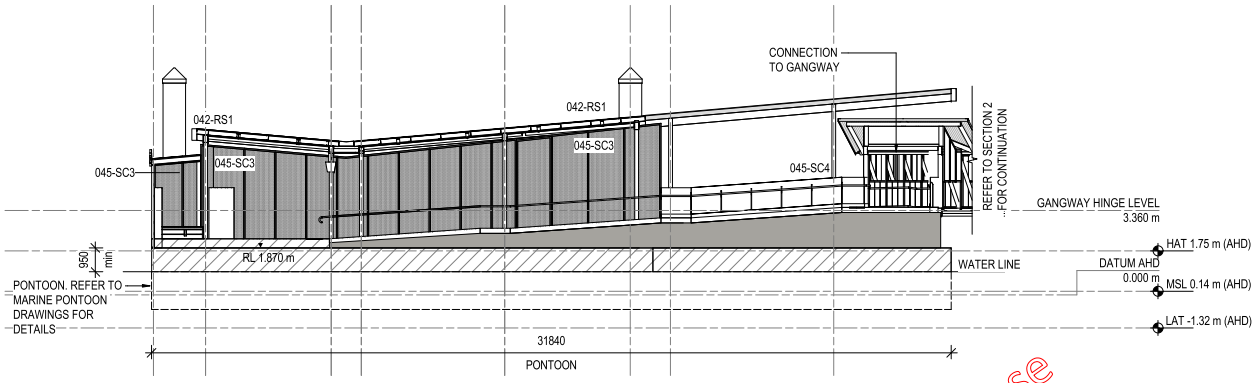
File No. 467/00408
Contract. No. CN-12653
Drawing No. 4020 5
Project No. TMR29-130
MRM_Detail (05/14) BN-70-1

Last Modified :- 26/06/2020 11:23:33 AM

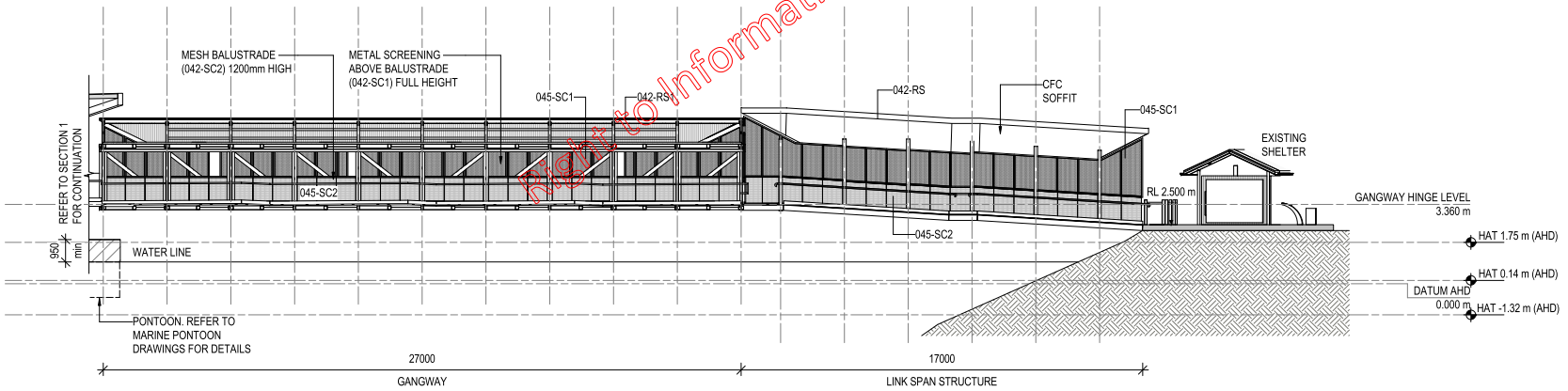
PRELIMINARY

Cardno architectus

Key Value	Keynote Text
042-RS	ROOF SHEETING METAL
042-RS1	ROOF SHEETING METAL - ALUMINIUM
045-SC1	SCREEN PANEL - TYPE 1
045-SC2	SCREEN PANEL - TYPE 2
045-SC3	SCREEN PANEL - TYPE 3
045-SC4	SCREEN PANEL - TYPE 4



SECTION 1 / 4012
SCALE 1 : 100



SECTION 2 / 4020
SCALE 1 : 100

NOTE: SECTION GENERATED WITH GANGWAY AT HORIZONTAL POSITION

0 1000 2000 3000 4000 5000
SCALE 1:50

2	PD REVISED LAYOUT ISSUE		14-04-20	
1	PRELIMINARY DESIGN RE-ISSUE		15-01-20	
	Revisions/Descriptions	Certification	Date	Microfiled

CAD FILES: BIM 360://7905-29 SMBI Ferry Terminal Designs/46700408 - SMBI - Karragarra Island - A - Site and Jetty.rvt

Last Modified :- 14/04/2020 6:59:10 PM

Associated Job Nos
Auxiliary Drg Nos

Survey Data
Datum: GDA94
Horiz. Grid: MGA Z56
Height Origin: AHD
Survey Books:

Scales
Dimensions shown in millimetres except where shown otherwise

SOUTHERN MORETON BAY
SOUTHERN MORETON BAY ISLANDS
KARRAGARRA ISLAND
FERRY TERMINALS DESIGN

Drawn	ML
Checked	AR
Designed	AR
Design Review	
Date	14-04-20

ARCHITECTURAL
LANDSIDE AND JETTY
SECTIONS - SHEET 1

ENGINEERING CERTIFICATION (RPEQ)

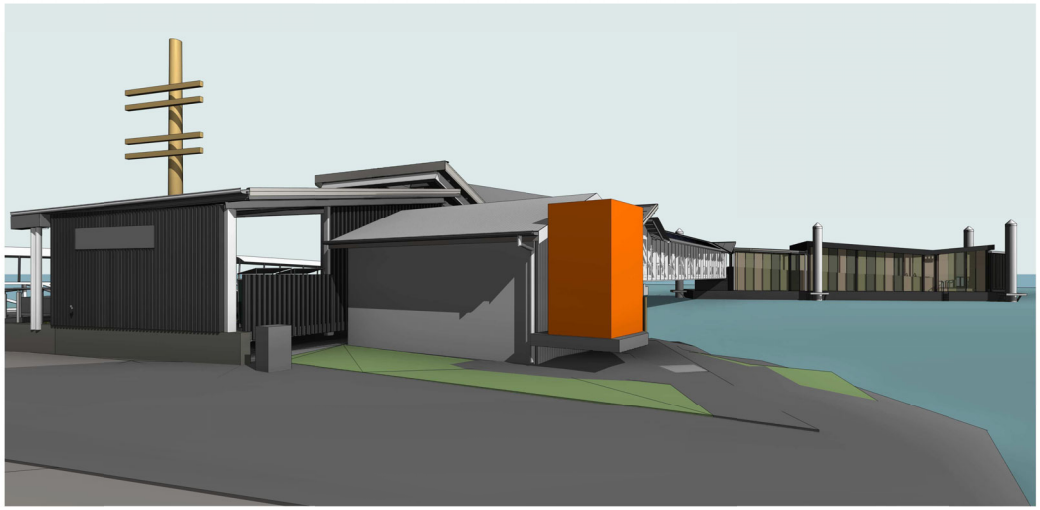
ENG. AREA	NAME	SIGNATURE	NO.	DATE

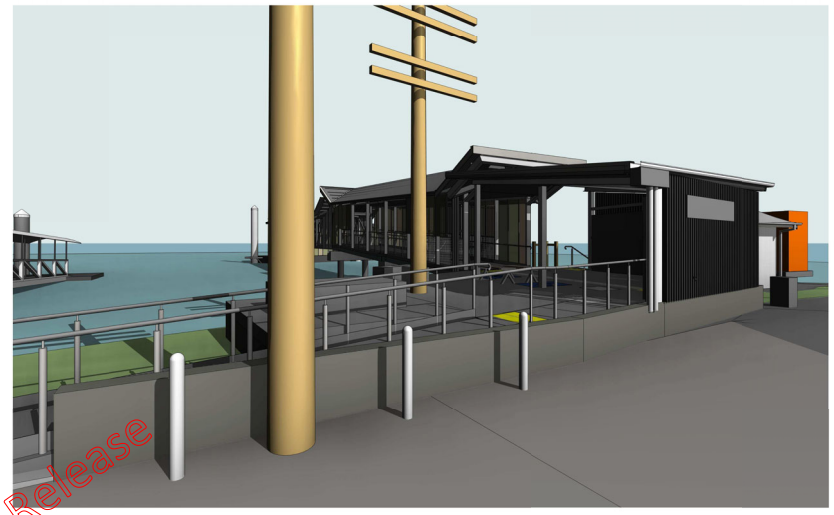
Queensland Government

File No.	467/00408
Contract. No.	CN-12653
Drawing No.	4052 2
Project No.	TMR29-130
MRM_Detail (05/14)	BN-70-1

ISSUE FOR CONSTRUCTION

Cardno architectus





B	REVISED FOR CONSTRUCTION	AR	23-02-21	
A	ISSUED FOR CONSTRUCTION	AR	06-11-20	
	Revisions/Descriptions	Certification	Date	Microfiled

CAD FILES: BIM 360://7905-29 SMBI Ferry Terminal Designs/46700408 - SMBI - Karragarra Island - A - Site and Jetty.rvt

Associated Job Nos

Auxiliary Drg Nos

Survey Data: Datum GDA94; Horiz. Grid MGA Z56; Height Origin AHD; Survey Books

Scales: Dimensions shown in millimetres except where shown otherwise

SOUTHERN MORETON BAY
SOUTHERN MORETON BAY ISLANDS
KARRAGARRA ISLAND

FERRY TERMINALS DESIGN

Drawn ML
Checked AR
Designed AR
Design Review AR
Date 23-02-21

ARCHITECTURAL
LANDSIDE AND JETTY
PERSPECTIVES

ENGINEERING CERTIFICATION (RPEQ)

ENG. AREA	NAME	SIGNATURE	NO.	DATE
BOAQ			1855	29-09-20

Queensland Government

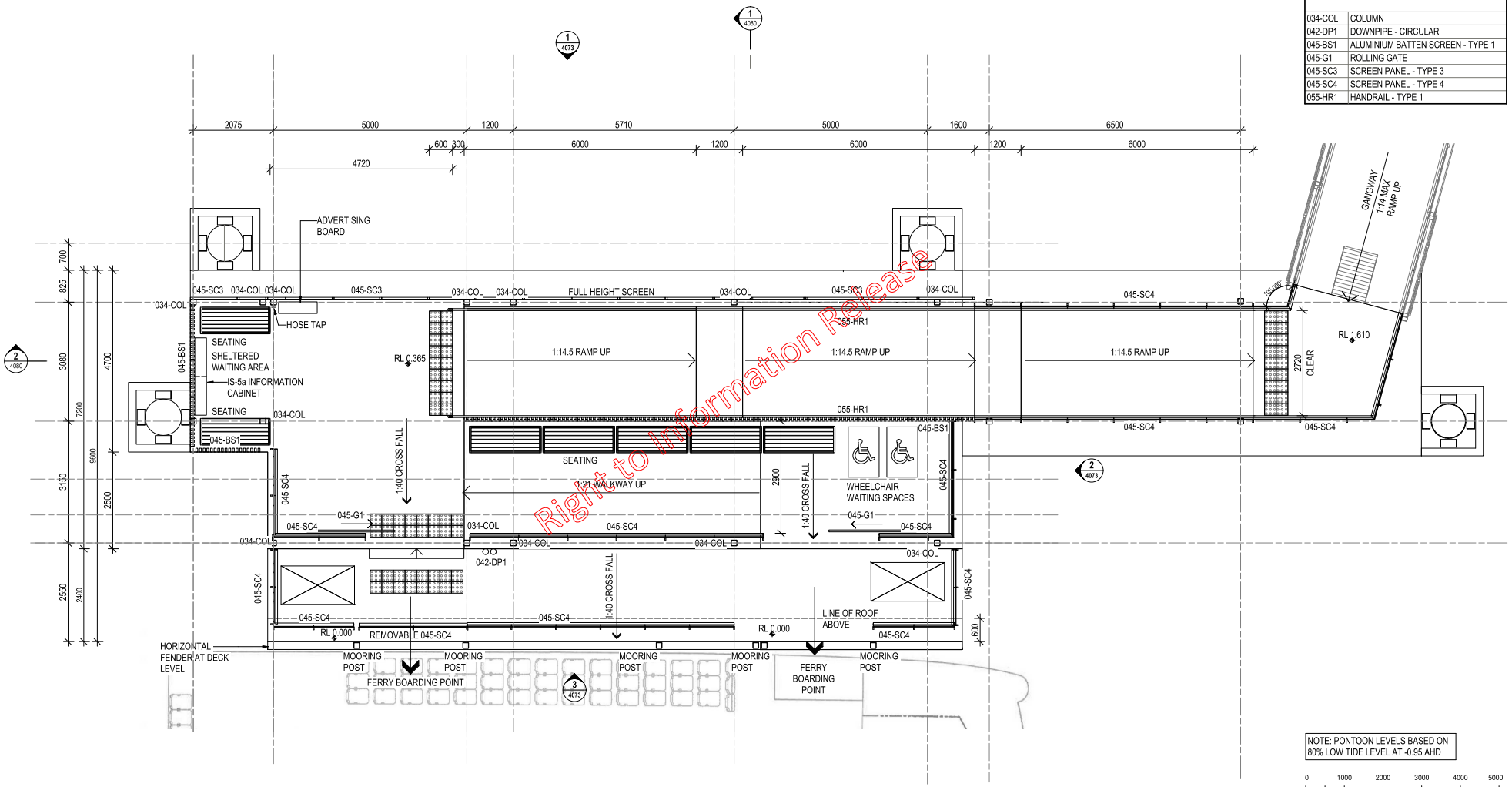
File No.	467/00408
Contract. No.	CN-12653
Drawing No.	4060 B
Project No.	TMR29-130
MRM_Detail (05/14)	BN-70-1-548

Last Modified :- 22/02/2021 8:57:41 PM

PRELIMINARY

Cardno architectus

LEGEND	
Code	Description
034-COL	COLUMN
042-DP1	DOWNPIPE - CIRCULAR
045-BS1	ALUMINIUM BATTEN SCREEN - TYPE 1
045-G1	ROLLING GATE
045-SC3	SCREEN PANEL - TYPE 3
045-SC4	SCREEN PANEL - TYPE 4
055-HR1	HANDRAIL - TYPE 1



NOTE: PONTOON LEVELS BASED ON 80% LOW TIDE LEVEL AT -0.95 AHD

0 1000 2000 3000 4000 5000

SCALE 1:50

4	PD REVISED LAYOUT ISSUE		14-04-20	
3	PRELIMINARY DESIGN RE-ISSUE		15-01-20	
2	PRELIMINARY DESIGN ISSUE		08-11-19	
1	ISSUED FOR INTERNAL REVIEW - QS		25-10-19	
	Revisions/Descriptions	Certification	Date	Microfiled

CAD FILES | BIM 360://7905-29 SMBI Ferry Terminal Designs/46700408 - SMBI - Karragarra Island - A - Pontoon_Single Berth.rvt

Last Modified: - 14/04/2020 8:55:54 PM

Associated Job Nos

Auxiliary Drg Nos

Survey Data	
Datum	GDA94
Horiz. Grid	MGA Z56
Height Origin	AHD
Survey Books	

Scales

Dimensions shown in millimetres except where shown otherwise

SOUTHERN MORETON BAY
SOUTHERN MORETON BAY ISLANDS
KARRAGARRA ISLAND

FERRY TERMINALS DESIGN

Drawn	ML
Checked	AR
Designed	AR
Design Review	
Date	14-04-20

ARCHITECTURAL
PONTOON
LAYOUT PLAN

ENGINEERING CERTIFICATION (RPEQ)

ENG. AREA	NAME	SIGNATURE	NO.	DATE

Queensland Government

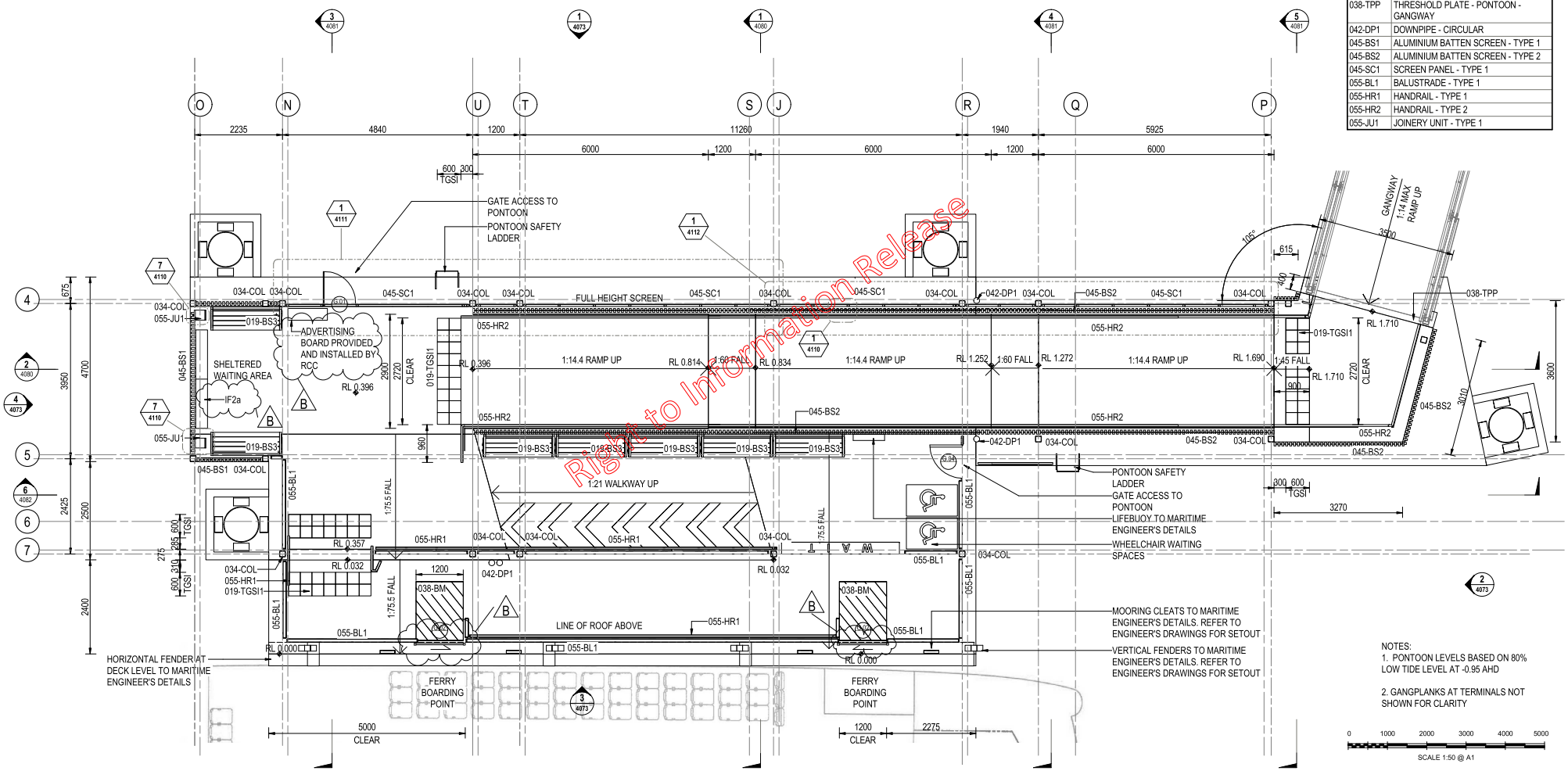
File No.	467/00408
Contract. No.	CN-12653
Drawing No.	4070 4
Project No.	TMR29-130
MRM_Detail (05/14)	BN-70-1

ISSUE FOR CONSTRUCTION

Cardno architectus

LEGEND

Code	Description
019-BS3	BENCH SEATING TYPE 3
019-TGSI1	TACTILE GROUND SURFACE INDICATORS - TYPE 1
034-COL	COLUMN
038-BM	BOARDING GATE MATT
038-TPP	THRESHOLD PLATE - PONTOON - GANGWAY
042-DP1	DOWNPIPE - CIRCULAR
045-BS1	ALUMINIUM BATTEN SCREEN - TYPE 1
045-BS2	ALUMINIUM BATTEN SCREEN - TYPE 2
045-SC1	SCREEN PANEL - TYPE 1
055-BL1	BALUSTRADE - TYPE 1
055-HR1	HANDRAIL - TYPE 1
055-HR2	HANDRAIL - TYPE 2
055-JU1	JOINERY UNIT - TYPE 1



NOTES:
1. PONTOON LEVELS BASED ON 80% LOW TIDE LEVEL AT -0.95 AHD
2. GANGPLANKS AT TERMINALS NOT SHOWN FOR CLARITY

0 1000 2000 3000 4000 5000
SCALE 1:50 @ A1

B	REVISED ISSUE FOR CONSTRUCTION	AR	23-02-21
A	ISSUED FOR CONSTRUCTION	AR	06-11-20
	Revisions/Descriptions	Certification	Date

Microfiled

CAD FILES: BIM 360://7905-29 SMBI Ferry Terminal Designs/46700408 - SMBI - Karragarra Island - A - Pontoon_Single Berth.rvt

Associated Job Nos

Auxiliary Drg Nos

Survey Data	
Datum	GDA94
Horiz. Grid	MGA Z56
Height Origin	AHD
Survey Books	

Scales

Dimensions shown in millimetres except where shown otherwise

SOUTHERN MORETON BAY
SOUTHERN MORETON BAY ISLANDS
KARRAGARRA ISLAND

FERRY TERMINALS DESIGN

Drawn	ML
Checked	AR
Designed	AR
Design Review	AR
Date	23-02-21

ARCHITECTURAL PONTOON LAYOUT PLAN

ENGINEERING CERTIFICATION (RPEQ)

ENG. AREA	NAME	SIGNATURE	NO.	DATE
BOAQ			1855	29-09-20

Queensland Government

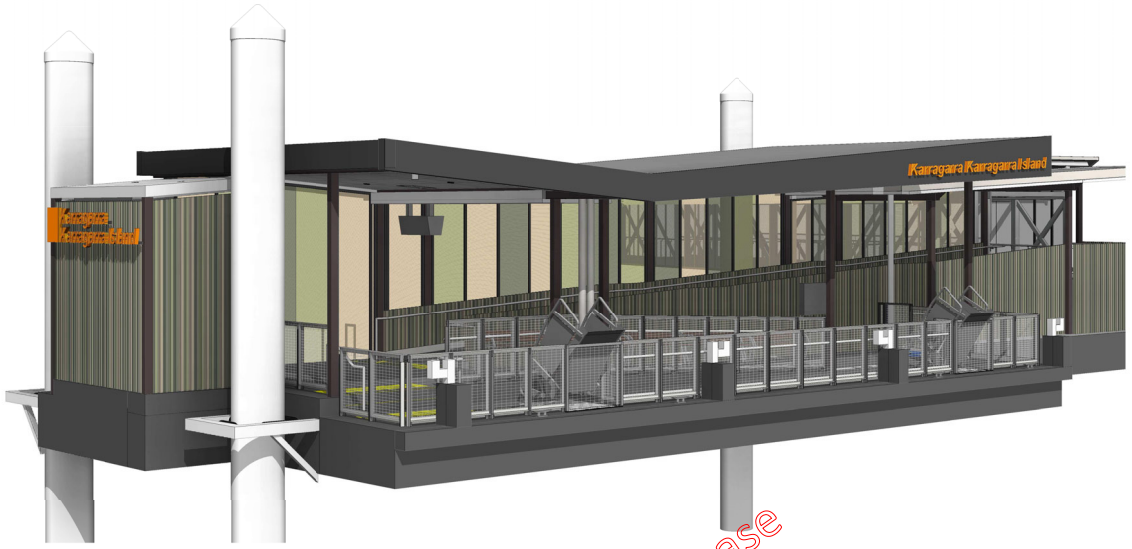
File No.	467/00408
Contract. No.	CN-12653
Drawing No.	4070 B
Project No.	TMR29-130
MRM_Detail (05/14)	BN-70-1-550

Last Modified: - 25/02/2021 5:30:12 PM

Contrary to Public Interest

ISSUE FOR CONSTRUCTION

Cardno architectus



B	REVISED ISSUE FOR CONSTRUCTION	AR	23-02-21	
A	ISSUED FOR CONSTRUCTION	AR	06-11-20	
	Revisions/Descriptions	Certification	Date	Microfiled

CAD FILES: BIM 360://7905-29 SMBI Ferry Terminal Designs/46700408 - SMBI - Karragarra Island - A - Pontoon_Single Berth.rvt

Associated Job Nos

Auxiliary Drg Nos

Survey Data

Datum	GDA94
Horiz. Grid	MGA Z56
Height Origin	AHD
Survey Books	

Scales

Dimensions shown in millimetres except where shown otherwise

SOUTHERN MORETON BAY
SOUTHERN MORETON BAY ISLANDS
KARRAGARRA ISLAND

FERRY TERMINALS DESIGN

Drawn	ML
Checked	AR
Designed	AR
Design Review	AR
Date	23-02-21

ARCHITECTURAL
PONTOON
PERSPECTIVES

ENGINEERING CERTIFICATION (RPEQ)

ENG. AREA	NAME	SIGNATURE	NO.	DATE
BOAQ			1855	29-09-20

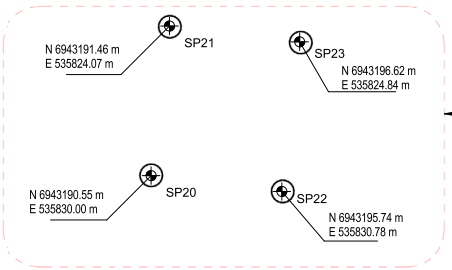
Queensland Government

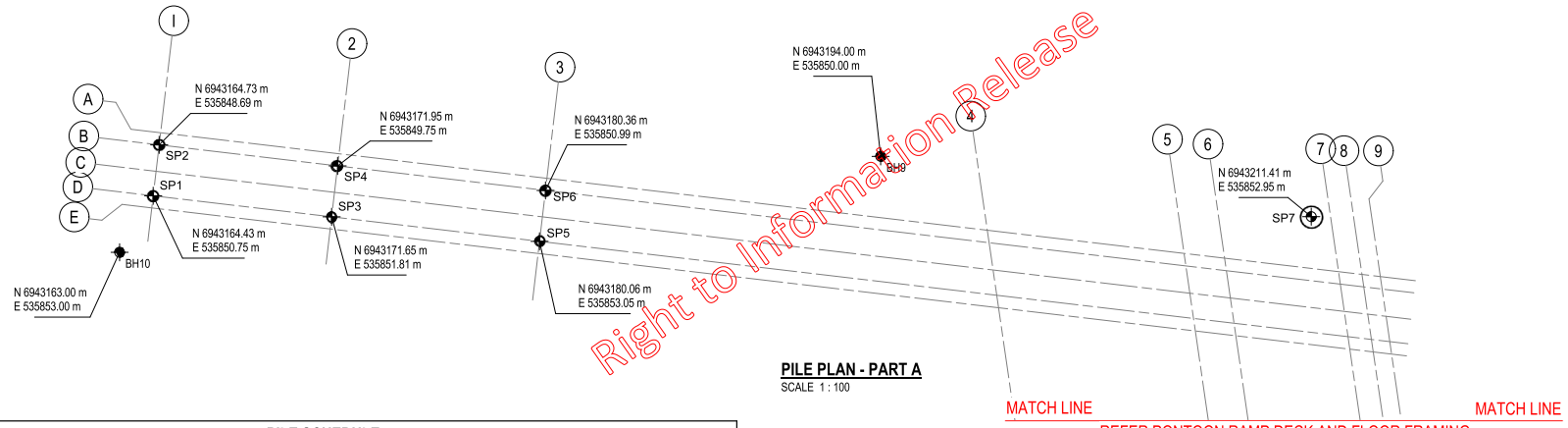
File No.	467/00408
Contract. No.	CN-12653
Drawing No.	4100 B
Project No.	TMR29-130
MRM_Detail (05/14)	BN-70-1-562

Last Modified - 22/02/2021 8:14:48 PM

PRELIMINARY

Cardno architectus





PILE PLAN - PART A
SCALE 1 : 100

MATCH LINE MATCH LINE

REFER PONTOON RAMP DECK AND FLOOR FRAMING PLAN ON DRAWING 4305 FOR CONTINUATION

PILE SCHEDULE

MARK	SIZE	PILE LENGTH (m)	CUT OFF AHD (m)	TOE AHD (m)	N* (kN)	Vx* (kN)	Vy* (kN)	REMARKS
SP1	Ø450 x 16	13m	+1.8	-11.20				JETTY PILE
SP2	Ø450 x 16	13m	+1.8	-11.20				JETTY PILE
SP3	Ø450 x 16	13m	+2.23	-10.77				JETTY PILE
SP4	Ø450 x 16	13m	+2.23	-10.77				JETTY PILE
SP5	Ø450 x 16	13.5m	+2.66	-10.84				JETTY PILE
SP6	Ø450 x 16	13.5m	+2.66	-10.84				JETTY PILE
SP7	Ø900 x16	22m	+7.0m	-15.00				PONTOON GUIDE PILE
SP8	Ø900 x16	22m	+7.0m	-15.00				PONTOON GUIDE PILE
SP9	Ø900 x16	22m	+7.0m	-15.00				PONTOON GUIDE PILE
SP10	Ø900 x16	22m	+7.0m	-15.00				PONTOON GUIDE PILE
SP20	Ø900 x16	15	+5.71	-9.29				REPURPOSED PONTOON GUIDE PILES
SP21	Ø900 x16	15	+5.71	-9.29				REPURPOSED PONTOON GUIDE PILES
SP22	Ø900 x16	15	+5.71	-9.29				REPURPOSED PONTOON GUIDE PILES
SP23	Ø900 x16	15	+5.71	-9.29				REPURPOSED PONTOON GUIDE PILES

PILE ACTION KEY
NOTE: N* ACTION ACTING VERTICAL (INTO PAGE) PILE FORCES ACT IN COMBINATION AT TOP OF PILE.

BORE HOLE NOTE:
REFER TO PACIFIC GEOTECH REPORT REF. NO. PG-1697, 2018-07-09, GR VER 1

TIDE DESCRIPTION

TIDAL PLANE	LEVEL (m LAT)	LEVEL (m AHD)
HAT	3.07	1.75
MHWS	2.45	1.13
MHWN	2.02	0.70
AHD	1.32	0.00
MSL	1.46	0.14
MLWN	0.89	-0.43
MLWS	0.47	-0.85
LAT	0.00	-1.32

0 2000 4000 6000 8000 10000
SCALE 1:100

	Revisions/Descriptions	Certification	Date	Microfiled
4	PD REVISED LAYOUT ISSUE		14-04-20	
3	PRELIMINARY DESIGN RE-ISSUE		17-01-20	
2	PRELIMINARY DESIGN ISSUE		08-11-19	
1	ISSUED FOR INTERNAL REVIEW - QS		25-10-19	

CAD FILES: BIM 360:\\7905-29 SMBI Ferry Terminal Designs\46700408 – SMBI – Karragarra Island – PM – Jetty and Gangway.rvt

Associated Job Nos:
Auxiliary Drg Nos:

Survey Data: Datum GDA94; Horiz. Grid MGA Z56; Height Origin AHD; Survey Books

Scales: Dimensions shown in millimetres except where shown otherwise

SOUTHERN MORETON BAY
SOUTHERN MORETON BAY ISLANDS
KARRAGARRA ISLAND

FERRY TERMINALS DESIGN

Drawn GW
Checked EC
Designed LB
Design Review MK
Date 17-01-2020

MARITIME

PILE PLAN

ENGINEERING CERTIFICATION (RPEQ)

ENG. AREA	NAME	SIGNATURE	NO.	DATE

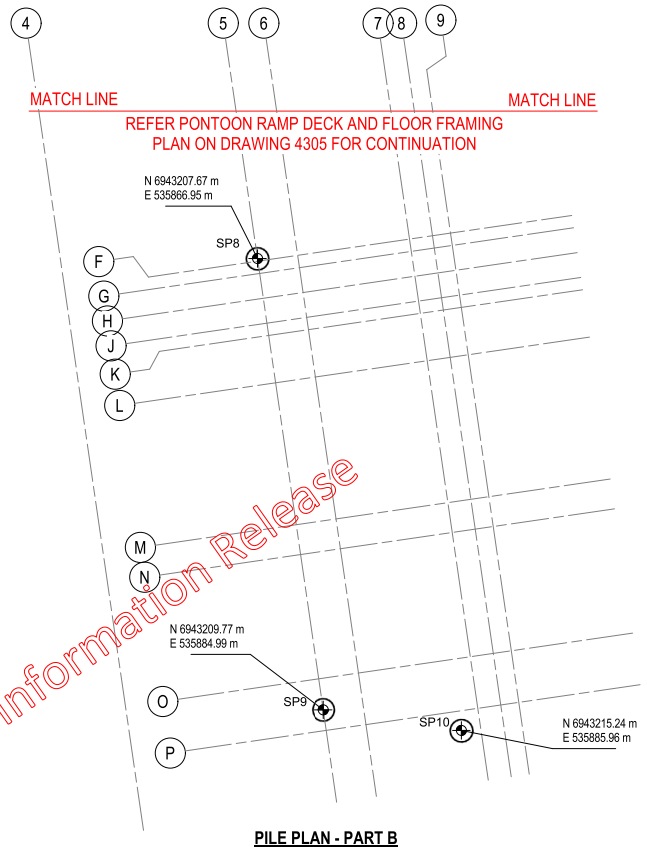
Queensland Government

File No. 467/00408
Contract. No. CN-12653
Drawing No. 4305 4
Project No. TMR29-130
MRM_Detail (05/14) BN-70-1

Last Modified: - 15/04/2020 4:09:52 PM

PRELIMINARY

Cardno architectus



PILE PLAN - PART B
SCALE 1 : 100

PILE SCHEDULE

MARK	SIZE	PILE LENGTH (m)	CUT OFF AHD (m)	TOE AHD (m)	N* (kN)	Vx* (kN)	Vy* (kN)	REMARKS
SP1	Ø450 x 16	13m	+1.8	-11.20				JETTY PILE
SP2	Ø450 x 16	13m	+1.8	-11.20				JETTY PILE
SP3	Ø450 x 16	13m	+2.23	-10.77				JETTY PILE
SP4	Ø450 x 16	13m	+2.23	-10.77				JETTY PILE
SP5	Ø450 x 16	13.5m	+2.66	-10.84				JETTY PILE
SP6	Ø450 x 16	13.5m	+2.66	-10.84				JETTY PILE
SP7	Ø900 x16	22m	+7.0m	-15.00				PONTOON GUIDE PILE
SP8	Ø900 x16	22m	+7.0m	-15.00				PONTOON GUIDE PILE
SP9	Ø900 x16	22m	+7.0m	-15.00				PONTOON GUIDE PILE
SP10	Ø900 x16	22m	+7.0m	-15.00				PONTOON GUIDE PILE
SP20	Ø900 x16	15	+5.71	-9.29				REPURPOSED PONTOON GUIDE PILES
SP21	Ø900 x16	15	+5.71	-9.29				REPURPOSED PONTOON GUIDE PILES
SP22	Ø900 x16	15	+5.71	-9.29				REPURPOSED PONTOON GUIDE PILES
SP23	Ø900 x16	15	+5.71	-9.29				REPURPOSED PONTOON GUIDE PILES

PILE ACTION KEY
NOTE: N* ACTION ACTING VERTICAL (INTO PAGE) PILE FORCES ACT IN COMBINATION AT TOP OF PILE.

PILE ACTION KEY
SCALE 1 : 1

BORE HOLE NOTE:
REFER TO PACIFIC GEOTECH REPORT REF. NO. PG-1697, 2018-07-09, GR VER 1

TIDE DESCRIPTION

TIDAL PLANE	LEVEL (m LAT)	LEVEL (m AHD)
HAT	3.07	1.75
MHWS	2.45	1.13
MHWN	2.02	0.70
AHD	1.32	0.00
MSL	1.46	0.14
MLWN	0.89	-0.43
MLWS	0.47	-0.85
LAT	0.00	-1.32

0 2000 4000 6000 8000 10000
SCALE 1:100

1	PD REVISED LAYOUT ISSUE		14-04-20	
	Revisions/Descriptions	Certification	Date	Microfiled

Last Modified: - 15/04/2020 4:09:00 PM

CAD FILES | BIM 360://7905-29 SMBI Ferry Terminal Designs/46700408 – SMBI – Karragarra Island – PM – Jetty and Gangway.rvt

Associated Job Nos

Auxiliary Drg Nos

Survey Data

Datum	GDA94
Horiz. Grid	MGA Z56
Height Origin	AHD
Survey Books	

Scales

Dimensions shown in millimetres except where shown otherwise

SOUTHERN MORETON BAY
SOUTHERN MORETON BAY ISLANDS
KARRAGARRA ISLAND

FERRY TERMINALS DESIGN

Drawn	GW
Checked	EC
Designed	LB
Design Review	MK
Date	17.01.2020

MARITIME

PILE PLAN

ENGINEERING CERTIFICATION (RPEQ)

ENG. AREA	NAME	SIGNATURE	NO.	DATE

Queensland Government

File No.	467/00408
Contract. No.	CN-12653
Drawing No.	4306 | 1
Project No.	TMR29-130
MRM_Detail (05/14)	BN-70-1