



Document No. 1257429
GPC Ref: DA2016/06

Gladstone Ports Corporation
Growth, Prosperity, Community.

DECISION NOTICE – DA 2016/06

SUSTAINABLE PLANNING ACT 2009 S334 & S335

Application:	Operational Works that is Tidal Works
Applicant Name and address:	GLNG Operations Pty Ltd and QCLNG Common Facilities Company Pty Ltd c/o Brian Gibbs AECOM Australia Pty Ltd PO Box 1307 FORTITUDE VALLEY QLD 4006
Owner:	Gladstone Ports Corporation Limited
Subject Land:	Lot 212 on SP239707
Location:	RG Tanna Coal Terminal
Present Zoning	Strategic Port Land
Proposed Use:	Marine Operations Terminal
Application Received:	26 August 2016

This development application was assessed on: **30 November 2016**

1. Details Of The Approval

Development Permit:

Operational Works that is Tidal Works – Ferry Terminal, Roll-on Roll-off Facility, Lift-on Lift-off Facility

2. Assessment Manager's Conditions

In general the facilities are in compliance with the requirements of Gladstone Ports Corporation. It is to be noted that the following conditions will be complied with in the granting of this Development Application.

GENERAL

1. The proposed development must be carried out generally in accordance with the plans as lodged with the application except where modified by conditions of this permit.
2. Unless otherwise stated, all conditions must be completed prior to the commencement of the use.

3. Where additional "approval" is required under these conditions by the Gladstone Ports Corporation for drawings or documentation, the proponent must submit for review, amend to the satisfaction of, and obtain written acceptance from the Gladstone Ports Corporation. Only in this manner can compliance with the condition be achieved.
4. The proponent must inform the GPC of completion of works within 14 days of practical completion and undertake a site inspection with GPC. The proponent must also certify that the site is fit for purpose.
5. The proponent must at its cost and expense, keep and maintain the subject area, including existing services, in a state that is satisfactory to the Port.

ENGINEERING

6. The proponent must supply the Port with "As Constructed" plans in both hard copy (2 of) and electronic format which illustrates all infrastructure on Port land which is associated with the activity (e.g. piles, pontoons, walkways, tie up arrangements, lighting etc.) at the end of the construction. The proponent shall also provide GPC with RPEQ certification that the infrastructure has been built in accordance with the "As Constructed" drawings.
7. Lighting should not impact on the visibility of Navigational Aids utilised for the primary shipping channels nor illuminate a landward glare beyond the site boundary. Lighting will be continually reviewed during construction and operations with respect to navigation and will be revised as required in response to negative impacts as they arise. Details of any revised lighting on the site shall be provided to GPC for approval.
8. Any material which is deposited or any debris which falls or is deposited on tidal lands or into tidal waters during the construction of the Works shall be removed by the proponent at its cost and expense. At the end of the construction, the proponent shall certify the seabed is clear of foreign materials before Practical Completion.
9. The hours for the construction of the facility (i.e. operation of any machinery and/or other equipment) shall be restricted to between 7:00am and 6:00pm Monday to Saturday. No works shall be undertaken Sundays or on public holidays. Any variations to these times will be subject to the approval of GPC.
10. Construction activities will not interfere with the operation of the adjacent tug facility.
11. The proponent shall provide to GPC for approval a construction vessel management plan at least 20 business days prior to works commencing. The plan must include anchorage systems for floating plant and equipment, fuelling/refuelling arrangements, oil/fuel/pollutant spill prevention and management and cyclone management for vessels and floating plant and equipment during construction.

ENVIRONMENT

12. Prior to the commencement of construction an Construction Environmental Management Plan is to be developed by the permit holder and approved by the Gladstone Ports Corporation.
13. Construction works are to be carried out in accordance with the approved Construction Environmental Management Plan.
14. Prior to operations of the facility an Operations Environmental Management Plan is to be developed by the permit holder and approved by the Gladstone Ports Corporation.

15. Operations are to be conducted in accordance with the approved Operations Environmental Management Plan.
16. Any amendments to the approved Environmental Management Plans (Construction or Operations) must be approved by the Gladstone Ports Corporation.
17. GPC is to be notified within two (2) business days after the permit holder has becoming aware of any non-compliance with any environmental conditions specific to this approval.
18. Any spillage of wastes, contaminants or other materials must be cleaned up immediately. Such spillage must not be cleaned up by hosing, sweeping or otherwise releasing such materials to any stormwater drainage system (except where such systems are designed to remove such contaminants), road side gutters or waters.
19. The permit holder will investigate any nuisance complaint (including but not limited to noise, air quality, light) received in relation to their construction or operation activities. Within 24 hours of receiving a complaint the permit holder is notify the Gladstone Ports Corporation Environmental Hotline: 4976 1617.

3. Concurrence Agency Conditions –

Department of State Development, Infrastructure and Planning

The Decision Notice conditions of the Department of Infrastructure, Local Government and Planning acting as a Concurrence Agency are as per their letter dated 22 November 2016 attached.

4. The Approved Plans –

The approved plans and/or documents forming part of this decision notice are listed in the following table:

Document Reference	Plan / Document Name	Date
Ferry Facility Construction Drawings - Structural		
DWG No. 40000 Rev 0	Ferry Facility - Site Plan & Drawing List	29/04/2016
DWG No. 40001 Rev 0	Ferry Facility – Site Boundary Plan	29/04/2016
DWG No. 40002 Rev 0	Ferry Facility – General Notes	29/04/2016
DWG No. 40003 Rev 0	Ferry Facility – General Arrangement - Plan	29/04/2016
DWG No. 40004 Rev 0	Ferry Facility – General Arrangement – Elevations and Sections	29/04/2016
DWG No. 40005 Rev 0	Ferry Facility – General Arrangement – Deck Furniture Plan	29/04/2016
DWG No. 40006 Rev 0	Ferry Facility – Piles – Setout and Schedules	29/04/2016
DWG No. 40007 Rev 0	Ferry Facility – Pontoons – Deck Steelwork Arrangement Plan	29/04/2016

Document Reference	Plan / Document Name	Date
Ferry Facility Construction Drawings - Structural		
DWG No. 403003 Rev 0	Ferry Facility – Pontoon 1 – Top Plate Arrangement	29/04/2016
DWG No. 403004 Rev 0	Ferry Facility – Pontoon 1 – Bottom Plate Arrangement	29/04/2016
DWG No. 403005 Rev 0	Ferry Facility – Pontoon 1 – End and Side Plates	29/04/2016
DWG No. 403006 Rev 0	Ferry Facility – Pontoon 2 – Top Plate Arrangement	29/04/2016
DWG No. 403007 Rev 0	Ferry Facility – Pontoon 2 – Bottom Plate Arrangement	29/04/2016
DWG No. 403008 Rev 0	Ferry Facility – Pontoon 2 – End and Side Plates	29/04/2016
DWG No. 403009 Rev 0	Ferry Facility – Pontoon 3 – Top Plate Arrangement	29/04/2016
DWG No. 403010 Rev 0	Ferry Facility – Pontoon 3 – Bottom Plate Arrangement	29/04/2016
DWG No. 403011 Rev 0	Ferry Facility – Pontoon 3 – End and Side Plates	29/04/2016
DWG No. 403012 Rev 0	Ferry Facility – Pontoons – Details – Sheet 1	29/04/2016
DWG No. 403013 Rev 0	Ferry Facility – Pontoons – Details – Sheet 2	29/04/2016
DWG No. 403014 Rev 0	Ferry Facility – Pontoons – Connection Plate Details – SHT 1	29/04/2016
DWG No. 403015 Rev 0	Ferry Facility – Pontoons – Connection Plate Details – SHT 2	29/04/2016
DWG No. 403017 Rev 0	Ferry Facility – Pontoons – Pile Guides - Details	29/04/2016
DWG No. 403019 Rev 0	Ferry Facility – Pontoons – Furniture Details	29/04/2016
DWG No. 403020 Rev 0	Ferry Facility – Pontoons – Landing and Ramp Details – SHT 1	29/04/2016
DWG No. 403021 Rev 0	Ferry Facility – Pontoons – Landing and Ramp Details – SHT 2	29/04/2016
DWG No. 403022 Rev 0	Ferry Facility – Pontoons – Landing and Ramp Details – SHT 3	29/04/2016
DWG No. 403023 Rev 0	Ferry Facility – Pontoons – Roof Structure - GA	29/04/2016
DWG No. 403024 Rev 0	Ferry Facility – Pontoon 1 – Roof Framing Plan & Section	29/04/2016
DWG No. 403025 Rev 0	Ferry Facility – Pontoon 2 – Roof Framing Plan & Section	29/04/2016
DWG No. 403026 Rev 0	Ferry Facility – Pontoon 3 – Roof Framing Plan & Section	29/04/2016
DWG No. 403027 Rev 0	Ferry Facility – Pontoons – Roof Framing Details	29/04/2016
DWG No. 403030 Rev 0	Ferry Facility – Pontoons – Ballast Layout and Details	29/04/2016
DWG No. 403040 Rev 0	Ferry Facility – Gangway – Plan and Sections	29/04/2016
DWG No. 403041 Rev 0	Ferry Facility – Gangway – Details – Sheet 1	29/04/2016
DWG No. 403042 Rev 0	Ferry Facility – Gangway – Details – Sheet 2	29/04/2016
DWG No. 403043 Rev 0	Ferry Facility – Gangway – Details – Sheet 3	29/04/2016
DWG No. 403050 Rev 0	Ferry Facility – Elevated Walkway – General Arrangement	29/04/2016

Document Reference	Plan / Document Name	Date
Ferry Facility Construction Drawings - Structural		
DWG No. 403051 Rev 0	Ferry Facility – Elevated Walkway – Details – Sheet 1	29/04/2016
DWG No. 403052 Rev 0	Ferry Facility – Elevated Walkway – Details – Sheet 2	29/04/2016
DWG No. 403053 Rev 0	Ferry Facility – Elevated Walkway – Details – Sheet 3	29/04/2016
DWG No. 403054 Rev 0	Ferry Facility – Elevated Walkway – Details – Sheet 4	29/04/2016
DWG No. 403055 Rev 0	Ferry Facility – Traffic Rail – Details – Sheet 1	29/04/2016
DWG No. 403056 Rev 0	Ferry Facility – Traffic Rail – Details – Sheet 2	29/04/2016
DWG No. 403060 Rev 0	Ferry Facility – Gantry – Elevation and Details	29/04/2016
DWG No. 403061 Rev 0	Ferry Facility – Walkway Pier – Details	29/04/2016
DWG No. 403056 Rev 0	Ferry Facility – Traffic Rail – Details – Sheet 2	29/04/2016
DWG No. 403056 Rev 0	Ferry Facility – Traffic Rail – Details – Sheet 2	29/04/2016
DWG No. 403056 Rev 0	Ferry Facility – Traffic Rail – Details – Sheet 2	29/04/2016
DWG No. 403056 Rev 0	Ferry Facility – Traffic Rail – Details – Sheet 2	29/04/2016
Ferry Facility Construction Drawings – Hydraulic & Electrical Services		
DWG No. 404100 Rev 1	Marine Operations Terminal – Ferry Facility Water Supply	20/07/2016
DWG No. 405100 Rev 0	Marine Operations Terminal – Power Layout	29/04/2016
DWG No. 405120 Rev 0	Marine Operations Terminal – Security Layout	29/04/2016
DWG No. 405410 Rev 0	Marine Operations Terminal – Distribution Board Schematic	29/04/2016
DWG No. 405430 Rev 0	Marine Operations Terminal – Emergency Lighting Schematic	29/04/2016
DWG No. 405460 Rev 0	Marine Operations Terminal – CCTV Schedule	29/04/2016
Marine Operations Terminal Construction Drawings – Stormwater		
DWG No. 202201 Rev 0	Marine Operations Terminal – Stormwater Layout – Sheet 1	29/04/2016
DWG No. 202202 Rev 0	Marine Operations Terminal – Stormwater Layout – Sheet 2	29/04/2016
DWG No. 202203 Rev 1	Marine Operations Terminal – Stormwater Longitudinal Section – Sheet 1	22/06/2016
DWG No. 202204 Rev 1	Marine Operations Terminal – Stormwater Longitudinal Section – Sheet 2	22/06/2016
DWG No. 202205 Rev 1	Marine Operations Terminal – Stormwater Longitudinal Section – Sheet 3	22/06/2016
DWG No. 202209 Rev 0	Marine Operations Terminal – Stormwater Details – Sheet 1	29/04/2016
DWG No. 202210 Rev 0	Marine Operations Terminal – Stormwater Details – Sheet 2	29/04/2016
DWG No. 202211 Rev 0	Marine Operations Terminal – Stormwater Details – Sheet 3	29/04/2016

Document Reference	Plan / Document Name	Date
Other		
Doc. No. 3310-GLNG-5-1.3-0012	Operational Shipping Activity Management Plan Phases I and II	18/10/2015
Ref: 60323818	Stormwater Management Plan – RG Tanna Marine Operations Terminal	01/10/2015

5. When the Development Approval Takes Effect –

If the application is approved, or approved subject to conditions, the decision notice, or if a negotiated decision notice is given, the negotiated decision notice, is taken to be the development approval and has effect—

- (a) if there is no submitter and the applicant does not appeal the decision to the court or a building and development committee, from when—
 - (i) the decision notice is given; or
 - (ii) if a negotiated decision notice is given - the negotiated decision notice is given; or
- (b) if there is a submitter and the applicant does not appeal the decision to the court or a building and development committee—
 - (iii) when the submitters appeal period ends; or
 - (iv) if the last submitter gives the assessment manager written notice that the submitter will not be appealing the decision before the period mentioned in subparagraph (i) ends—on the day the last submitter gives the notice; or
- (c) if an appeal is made to the court or a building and development committee, subject to sections 490(3) and 553(3) and the decision of the court or committee under section 496 or 564 – when the appeal is finally decided or withdrawn.

6. When Approval Lapses if Development Not Started

The relevant periods stated below apply to each aspect of development in this approval, as outlined below:-

- material change of use - 4 years
- any other development not listed above - 2 years

7. Other Necessary Development Approvals

Listed below are the other development permits that are necessary to allow the development to be carried out:

- Nil

8. Referral Agencies

The IDAS referral agencies applicable to this application are:

Referral Trigger	Agency Name	Status	Address
Operational Works that is Tidal Works for Marine Operations Terminal	Department of State Development, Infrastructure and Planning	Concurrence	DILGP State Assessment and Referral Agency PO Box 113 ROCKHAMPTON QLD 4700

9. Appeal Rights

Attached is an extract from the Sustainable Planning Act 2009 which details the applicant's appeal rights and the appeal rights of any submitters regarding this decision.

Appeals by applicants: An applicant for a development application may appeal to the Planning and Environment Court against the following:

- The refusal, or refusal in part of the development application
- Any condition of a development approval, another matter stated in a development approval and the identification or inclusion of a code under section 242 of the Sustainable Planning Act
- The decision to give a preliminary approval when a development permit was applied for
- The length of a period mentioned in section 341.

10. Assessment Manager Certification



Sarah Hunter
Senior Planning Officer
30 November 2016

Cc: State Assessment and Referral Agency



Department of Infrastructure,
Local Government and Planning

Our reference: SDA-0816-033080
Your reference: DA2016/06

22 November 2016

Gladstone Ports Corporation
PO Box 259
Gladstone QLD 4680
hunters@gpcl.com.au

Attention: Sarah Hunter

Dear Sir/Madam,

Concurrence agency response—with conditions

Alf O'Rourke Drive – Callemondah (Lot 212 on SP277322)
(Given under section 285 of the *Sustainable Planning Act 2009*)

The referral agency material for the development application described below was received by the Department of Infrastructure, Local Government and Planning under section 272 of the *Sustainable Planning Act 2009* on 13 September 2016.

Applicant details

Applicant name: GLNG Operations Pty Ltd & QCLNG Common Facilities
Company C/- AECOM Australia

Applicant contact details: PO Box 1307
Fortitude Valley Queensland 4006
cliff.schmidt@aecom.com

Site details

Street address: Alf O'Rourke Drive – Callemondah QLD

Lot on plan: 212 SP277322

Local government area: Gladstone Regional

Application details

Proposed development: Development Permit for Operational Works for Tidal Works (Marine Operations Terminal)

Aspects of development and type of approval being sought

Nature of Development	Approval Type	Brief Proposal of Description	Level of Assessment
Operational Work (Tidal Works)	Development permit	Marine Operations Terminal - Passenger ferry facility with elevated walkway, gangway and pontoons and 2 stormwater outfalls.	Code Assessment

Referral triggers

The development application was referred to the department under the following provisions of the *Sustainable Planning Regulation 2009*:

Referral trigger Schedule 7, Table 2, Item 13— Tidal works
 Schedule 7, Table 2, Item 15— Tidal works

Conditions

Under section 287(1)(a) of the *Sustainable Planning Act 2009*, the conditions set out in Attachment 1 must be attached to any development approval.

Reasons for decision to impose conditions

Under section 289(1) of the *Sustainable Planning Act 2009*, the department must set out the reasons for the decision to impose conditions. These reasons are set out in Attachment 2.

Approved plans and specifications

The department requires that the following plans and specifications set out below and in Attachment 3 must be attached to any development approval.

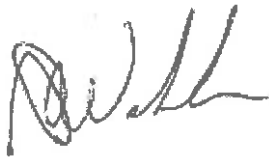
Drawing/Report Title	Prepared by	Date	Reference no.	Version/ Issue
Aspect of development: Operational Work				
Ferry Facility - Site Boundary Plan	AECOM Australia Pty Ltd	29.04.2016	400001	0
Ferry Facility - General Notes	AECOM Australia Pty Ltd	29.04.2016	400002	0
Ferry Facility - General Arrangement - Plan	AECOM Australia Pty Ltd	29.04.2016	400003	0
Ferry Facility - General Arrangements - Elevations and Sections	AECOM Australia Pty Ltd	29.04.2016	400004	0
Ferry Facility - Piles - Setout and Schedules	AECOM Australia Pty Ltd	29.04.2016	400006	0
Ferry Facility - Pontoons - Roof Structure - GA	AECOM Australia Pty Ltd	29.04.2016	403023	0

Ferry Facility - Gangway - Plan and Sections	AECOM Australia Pty Ltd	29.04.2016	403040	0
Ferry Facility - Elevated Walkway – General Arrangement	AECOM Australia Pty Ltd	29.04.2016	403050	0
Ferry Facility - Gantry – Elevation and Details	AECOM Australia Pty Ltd	29.04.2016	403060	0
Marine Operations Terminal - Stormwater Layout - Sheet 1	AECOM Australia Pty Ltd	29.04.2016	202201	0
Marine Operations Terminal - Stormwater Layout - Sheet 2	AECOM Australia Pty Ltd	29.04.2016	202202	0

A copy of this response has been sent to the applicant for their information.

For further information, please contact Carl Porter, A/Principal Planning Officer, on 07 4924 2918 or via email at RockhamptonSARA@dilgp.qld.gov.au who will be pleased to assist.

Yours sincerely



Anthony Walsh
A/Manager Planning
Fitzroy and Central

cc: GLNG Operations Pty Ltd & QCLNG Common Facilities Company C/- AECOM Australia,
cliff.schmidt@aecom.com
enc: Attachment 1—Conditions to be imposed
Attachment 2—Reasons for decision to impose conditions
Attachment 3—Approved Plans and Specifications

Our reference: SDA-0816-033080

Your reference: DA2016/06

Attachment 1—Conditions to be imposed

No.	Conditions	Condition timing
Operational Works		
7.2.13—Tidal works — Pursuant to section 255D of the <i>Sustainable Planning Act 2009</i> , the chief executive administering the Act nominates the Director-General of the Department of Environment and Heritage Protection to be the assessing 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.	<p>The development must be carried out generally in accordance with the following plans:</p> <ul style="list-style-type: none"> • Ferry Facility - Site Boundary Plan, prepared by AECOM Australia Pty Ltd, dated 29.04.2016, drawing number 400001 revision 0. • Ferry Facility - General Notes, prepared by AECOM Australia Pty Ltd, dated 29.04.2016, drawing number 400002 revision 0. • Ferry Facility - General Arrangement - Plan, prepared by AECOM Australia Pty Ltd, dated 29.04.2016, drawing number 400003 revision 0. • Ferry Facility - General Arrangements – Elevations and Sections, prepared by AECOM Australia Pty Ltd, dated 29.04.2016, drawing number 400004 revision 0. • Ferry Facility - Piles – Setout and Schedules, prepared by AECOM Australia Pty Ltd, dated 29.04.2016, drawing number 400006 revision 0. • Ferry Facility - pontoons – Roof Structure - GA, prepared by AECOM Australia Pty Ltd, dated 29.04.2016, drawing number 403023 revision 0. • Gangway – Plan and Sections, prepared by AECOM Australia Pty Ltd, dated 29.04.2016, drawing number 403040 revision 0. • Elevated Walkway – General Arrangement, prepared by AECOM Australia Pty Ltd, dated 29.04.2016, drawing number 403050 revision 0. • Gantry – Elevation and Details, prepared by AECOM Australia Pty Ltd, dated 29.04.2016, drawing number 403060 revision 0. • Marine Operations Terminal - Stormwater Layout - Sheet 1, prepared by AECOM Australia Pty Ltd, dated 29.04.2016, drawing number 202201 revision 0. • Marine Operations Terminal - Stormwater Layout - Sheet 2, prepared by AECOM Australia Pty Ltd, dated 29.04.2016, drawing number 202202 revision 0. 	For the duration of works.
2.	For the proposed works only use materials which are free from contaminants as defined under section 11 of the <i>Environmental Protection Act 1994</i> .	For the duration of the works the subject of this approval.
3.	Erosion and sediment control measures are to be installed and maintained to prevent the release of sediment to tidal waters.	For the duration of the works the subject of this

No.	Conditions	Condition timing
4.	<p>(a) The works are to be attached to the land the subject of this approval.</p> <p>(b) Should the works become detached the registered landowner(s) shall be responsible for the collection and removal of all debris at their own expense.</p>	<p>approval.</p> <p>At all times.</p>
5.	<p>As a result of works the subject of this approval any disturbed or oxidised acid sulphate soil must be treated and managed in accordance with the current <i>Queensland Acid Sulfate Soil Technical Manual: Soil management guidelines</i>, prepared by the Department of Science, Information Technology, Innovation and the Arts, 2014.</p>	<p>For the duration of the works the subject of this approval.</p>
Operational Works		
<p>7.2.15 —Tidal works — Pursuant to section 255D of the <i>Sustainable Planning Act 2009</i>, the chief executive administering the Act nominates the Director-General of the Department of Transport and Main Roads to be the assessing authority for the development to which this development approval relates for the administration and enforcement of any matter relating to the following condition(s):</p>		
6.	<p>"As Constructed" drawings of the approved structure must be provided to the Regional Harbour Master (Gladstone) via email to Gladstone.rhm@msq.qld.gov.au.</p>	<p>Within two (4) weeks of the completion of the works.</p>
7.	<p>All vessels, structures, plant and equipment associated with the construction of the approved works must be lit/marked in accordance with the following specifications and requirements such that undertaking the construction works does not cause a risk to the safe navigation of ships:</p> <p>(i) Any vessels utilised during construction must meet the relevant lighting requirements applicable to the vessel.</p> <p>(ii) Adequate lighting to be installed on the tidal structure so as not to interfere with the safe navigation of vessels.</p> <p>Lighting provided must not obscure, disguise or otherwise interfere with the effectiveness of navigational lighting.</p>	<p>While the works are occurring.</p>
8.	<p>The construction, operation or maintenance of the structure, and any ship moored at this structure, must not impede the safe navigation of other ships or restrict safe access to or from neighbouring structures.</p>	<p>At all times.</p>
9.	<p>(a) Provide written notice to the Regional Harbour Master (Gladstone) via email to Gladstone.rhm@msq.qld.gov.au, when the development authorised under this approval is scheduled to commence.</p> <p>Each notice must state this application number, the location and name of registered place and the condition number under which the notice is being given.</p> <p>(b) Provide written notice to the Regional Harbour Master (Gladstone) via email to Gladstone.rhm@msq.qld.gov.au, when the development authorised under this approval has been completed.</p>	<p>(a) At least two (2) weeks prior to the commencement of works.</p> <p>(b) Within two (2) weeks of the completion of works.</p>

No.	Conditions	Condition timing
	Each notice must state this application number, the location and name of registered place and the condition number under which the notice is being given.	
10.	<p>The structure must be lit/marked in accordance with the following specifications, such that it does not cause a risk to the safe navigation of other ships:</p> <p>(i) Lighting design to be in accordance with relevant Australian standards.</p> <p>Lighting provided must not obscure, disguise or otherwise interfere with the effectiveness of navigational lighting.</p>	At all times.

Our reference: SDA-0816-033080

Your reference: DA2016/06

Attachment 2—Reasons for decision to impose conditions

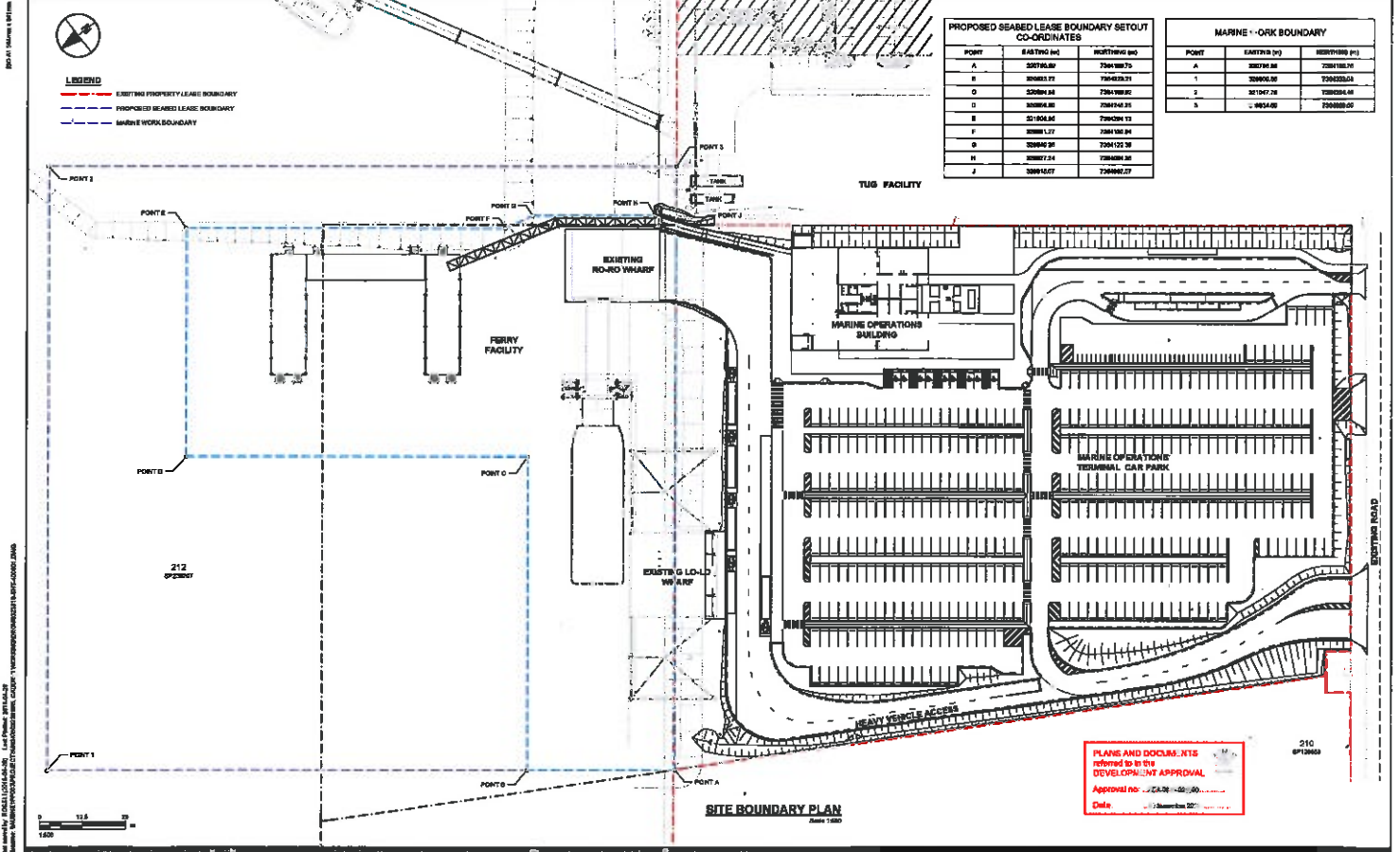
The reasons for this decision are:

- To ensure the development is carried out generally in accordance with the plans of development submitted with the application.
- To ensure the development avoids or minimises adverse impacts on coastal resources and their values.
- To ensure the development avoids or minimises adverse impacts on coastal resources and their values.
- To ensure landowners are aware they must take responsibility for their damaged property as they can impact on coastal resources and public safety.
- To ensure any disturbance to acid sulphate soils is managed to prevent impacts to coastal environments.
- To facilitate the monitoring of the development works for compliance purposes.
- To ensure that at all times, all lights on or above the development site do not interfere with safe navigation in surrounding waterways.
- To ensure the development does not encroach on the navigable waterway in a way that impedes the safe passage of vessels.

Our reference: SDA-0816-033080
Your reference: DA2016/06

Attachment 3—Approved plans and specifications

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AECOM
CONSULTANT
AECOM Australia Pty Ltd
A.S.N 30 393 848 825
www.aecom.com

PROJECT
RG Tanna Marine
Operations Terminal
GLADSTONE

CLIENT
Santos
GLNG
QGC
A 98 Group Member

CERTIFICATION

DISCIPLINE	DESIGNER	SPEC. NO.
MARITIME	[Signature]	2-11

PROJECT MANAGEMENT INITIALS

ID	TP	MD
DESIGNER	DESIGNED	APPROVED

PROJECT DATA

DESIGN [M/S]	SURVEY [M/S]

REVISIONS

#	NO. IN	REASON FOR CONSTRUCTION
01	GATE	DESCRIPTION

PROJECT NUMBER
80227318

SHEET TITLE
FERRY FACILITY
SITE BOUNDARY PLAN

SHEET NUMBER
40001

REVISION
0

GENERAL

- THESE DRAWINGS SHALL BE READ IN CONJUNCTION WITH ALL OTHER RELATED DRAWINGS AND SPECIFICATIONS, AND WITH ALL WRITTEN INSTRUCTIONS AS MAY BE ISSUED DURING THE COURSE OF THE CONTRACT BY THE SUPERINTENDENT.
- ALL DISCREPANCIES SHALL BE REFERRED TO THE SUPERINTENDENT FOR RESOLUTION BEFORE PROCEEDING.
- DURING CONSTRUCTION THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING THE YARDS INCLUDING ADJACENT STRUCTURES IN A STABLE CONDITION AND ENSURING NO PART IS OVERTRESSSED.
- ALL DIMENSIONS ARE IN MILLIMETRES UNLESS OTHERWISE SPECIFIED IN METRES (RELATIVE TO LOWEST ASTRONOMICAL TIDE DATUM).
- LEVEL DATUM ORIGIN PM 7082 RL 4.001 AND.
- ALL COORDINATES ARE IN METRES AND TO MGA 97M (ZONE 56).
- ORIGIN PM 7082 (S14781 8804, N291484.9979).
- PRIOR TO COMMENCEMENT OF ANY SITE WORKS, THE CONTRACTOR SHALL FAMILIARISE THEMSELVES WITH THE EXISTING INFRASTRUCTURE, INCLUDING SERVICES, AND SHALL MAKE THEMSELVES AWARE BEYOND ANY DOUBT OF ALL INFRASTRUCTURE IS TO BE DEMOLISHED, RETAINED AND RELOCATED.
- ALL DIMENSIONS RELATIVE TO EXISTING WORK, GROUND AND SEALED LEVELS, OR ITEMS SUPPLIED BY OTHERS, SHALL BE VERIFIED ON SITE BY THE CONTRACTOR PRIOR TO COMMENCEMENT OF ANY FABRICATION AND ERECTION WORKS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THEIR CORRECTNESS.
- ALL PROPRIETARY ITEMS SHALL BE INSTALLED STRICTLY IN ACCORDANCE WITH THE MANUFACTURERS' SUPPLIERS INSTRUCTIONS.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR TEMPORARY SITE DRAINAGE AND GENERAL MAINTENANCE OF THE AREA DURING CONSTRUCTION.
- THE CONTRACTOR SHALL INFORM THE SUPERINTENDENT TO INSPECT ALL EXCAVATIONS PRIOR TO ANY BACK FILLING OR CONCRETE POUR.
- PROPRIETARY PRODUCTS HAVE BEEN USED TO ESTABLISH A BASIC REQUIREMENT AND ANY SATISFACTORY EQUIVALENT MAY BE SUBMITTED FOR REVIEW.

DESIGN LOADS

- LATEST DESIGN VESSEL: LGA = 35m, BEAM = 11m, DRAFT = 1.3m, GROSS MASS = 120 TONNE
- DESIGN BERTHING SPEED: 0.5m/s FOR NORMAL BERTHING, 1.0m/s FOR ELEVATED GANGWAY, 4000 4500 FOR PONTON AND GANGWAY TO AS 3082 FOR GANGWAY: 4000, 4.5kN FOR PONTON: STRUCTURAL: 3kPa, 4.5kN FLotation: 3kPa
- DESIGN WIND: REGION C, TERRAIN CATEGORY 2 (WIND SPEED TO VACATE BERTHING WIND GUST SPEED EXCEEDS 1 = 25m/s)

STEELWORK

- ALL STEELWORK SHALL CONFORM TO AS 410 STEEL STRUCTURES.
- STEEL GRADES: 350MPa UNO RUSHERS: 350, CHR: 307 PLATES: 350, WC: 409, PILLS: 350 UNO.
- FABRICATION SHALL BE CARRIED OUT BY WELDERS WHO ARE QUALIFIED IN ACCORDANCE WITH THE REQUIREMENTS OF AS/NZS 1554.1.
- THE BOLTING PROCEDURE ADOPTED UNLESS OTHERWISE SPECIFIED WITH THE AUSTRALIAN INSTITUTE OF STEEL CONSTRUCTION - MANUAL OF STANDARDISED STRUCTURAL CONNECTIONS.
- ALL BOLTS OR FASTENERS SHALL BE MARKED WITH THE MANUFACTURER'S BRAND, AND COMPLY WITH THE FOLLOWING: - BOLTS DENOTED 4.8 IS ARE COMMERCIAL BOLTS OF STRENGTH GRADE 4.8 TO AS 1111 - 8000 TIGHT, 8.8 IS DENOTED 8.8S, 11.7E OR 11.7E ARE HIGH STRENGTH STRUCTURAL BOLTS OF STRENGTH GRADE 8.8 TO AS 1292.
- ALL BOLTS SHALL BE M20 8.8S UNO.
- GRADE 8.8 BOLTS SHALL NOT BE WELDED, INCLUDING THICK WELDS FOR COUPLING.
- PLATES IN STRUCTURAL STEEL CONNECTIONS SHALL BE 10mm THICK UNO.
- MINIMUM CONNECTIONS SHALL BE 10R, AND 4MM BOLTS UNO.
- ALL BOLTS (INCLUDING MASONRY ANCHORS) SHALL BE HOT DIPPED GALVANIZED UNO.
- ALL HOLDING DOWN BOLTS SHALL BE GALVANIZED AND PASSIVATED IN 0.2% SODIUM DICHROMATE SOLUTION UNO.
- ALL WELDS SHALL BE 6 CPW UNO.
- ALL WELDS SHALL BE CATERGORY B AS SPECIFIED IN AS 1554 UNO.
- ELECTRODES SHALL BE E41XX UNO.
- SURFACE TREATMENT AFTER CLEANING - REFER TO SPECIFICATION.
- SHOP DRAWINGS SHALL BE SUBMITTED BEFORE COMMENCEMENT OF FABRICATION. GRADE OF SANDBLASTING, PAINT BRAND, TYPE, FILM THICKNESS AND WELD CATEGORY SHALL BE NOTED ON THESE SHOP DRAWINGS.
- ALL FIXINGS AND ANCHORS SHALL BE CAST-IN TO CONCRETE UNO.
- ALL HOLLOW SECTIONS CHR, SPS & RNS SHOULD BE WELDED WITH 4mm COVER END PLATE UNO.

STAINLESS STEEL

- WHERE STAINLESS STEEL HAS BEEN CALLED UP ON THE DRAWINGS, THE STAINLESS STEEL SHALL COMPLY WITH THE FOLLOWING:
- ALL STAINLESS STEEL (SS) SHALL BE CR 304 OR 316 UNO.
 - ALL STAINLESS STEEL BOLTS SHALL BE GRADE A4-70.
 - ALL WELDS SHALL BE 6 CPW UNO.
 - WELDING OF STAINLESS STEEL INCLUDING CLEANING, PICKLING, AND PASSIVATION SHALL COMPLY WITH AS/NZS 1554.1 NOTE - WELDING OF STAINLESS STEEL - DECEMBER 1995.
 - WHERE SS FIXINGS ARE REQUIRED GALVANIZED OR PINTED STEEL COMPONENTS, AN APPROPRIATE ISOLATION MECHANISM SHALL BE USED TO ENSURE NO CONTACT OCCURS BETWEEN DISSIMILAR METALS.

ALUMINIUM

- WHERE ALUMINIUM HAS BEEN CALLED UP ON THE DRAWINGS, THE ALUMINIUM SHALL COMPLY WITH THE FOLLOWING:
- ALL FABRICATION AND MATERIALS SHALL BE IN ACCORDANCE WITH AS/NZS 1554.1.
 - ALL EXTRUDED ALUMINIUM SECTIONS SHALL COMPLY WITH 6063-T6 1600 - ALLOY 6063-T6 0091-T6, 064-T6, 068-T6 OR 6062-T6.
 - ALL ALUMINIUM PLATE SHALL COMPLY WITH AS/NZS 1734 - ALLOY 5083-H12.
 - ALL ALUMINIUM COMPONENTS SHALL BE FREE FROM EXCESSIVE TOOL MARKS, BUTTS AND OTHER MANUFACTURING DEFECTS.
 - WELDING SYMBOLS CONFORM TO AS 1101.3.
 - ALL WELDING SHALL BE IN ACCORDANCE WITH AS/NZS 1554.1 WELD QUALITY TO CATEGORY A.
 - WELDING OF ALUMINIUMS TO CR 304 UNO TO AS/NZS 1554.1.
 - ALL WELDING SHALL BE CARRIED OUT USING ARGON GAS SHIELDING.
 - ALL WELDS SHALL BE 6 CPW.
 - ALL WORK SHALL BE NEATLY FINISHED WITH ALL SHARP EDGES GROUND SMOOTH.
 - ALUMINIUM COMPONENTS SHALL BE CLEANED AND WELDING SLAG REMOVED.
 - IN BOLTED JOINTS, CONTACT FACES OF ALUMINIUM AND THREE (3) OF BOLTS AND NUTS SHALL BE COATED WITH 'DENSOL' MULTI-PURPOSE PRIMER OR BASE OR APPROVED EQUIVALENT, APPLIED TO ALL EXPOSED SURFACES BETWEEN STAINLESS STEEL BOLTS AND ALUMINIUM.

PILE DRIVING

- ALL PILES SHALL BE HANDLED, PITCHED AND DRIVEN IN ACCORDANCE WITH THE SPECIFICATIONS & DRAWINGS.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY AND ALL REPAIRS TO THE PILES DEEMED NECESSARY TO RESIST DRIVING FORCES OR GROUND CONDITIONS.
- THE CONTRACTOR SHALL MAINTAIN A COMPLETE DRIVING RECORD OF ALL PILES. DRIVING RECORDS SHALL BE SUBMITTED IN ACCORDANCE WITH THE SPECIFICATIONS.
- UNLESS NOTED OTHERWISE, PILES SHALL BE ROLLED OR FORMED FROM STEEL WITH A MINIMUM GUARANTEED YIELD STRENGTH OF 350MPa. STEEL COMPOSITION SHALL CONFORM TO THE REQUIREMENTS OF AS/NZS 3678 OR EQUIVALENT APPROVED BY SUPERINTENDENT. PILES SHALL BE FABRICATED AS EITHER SPIRAL OR LONGITUDINALLY SEAM WELDED STEEL.
- LONGITUDINAL WELD SEAMS IN STEEL PILE SECTION SHALL BE EVENLY STAGGERED DURING ASSEMBLY TO FORM THE COMPLETE PILE PITCHING LENGTH WHERE IT IS NOT PRACTICAL TO EVENLY STAGGER THE SEAMS TO MEET OUT THE STRAIGHTNESS TOLERANCES AT FIT UP THE SEAMS SHALL BE STAGGERED BY AT LEAST 100mm AROUND THE PILE CIRCUMFERENCE.
- THE CONTRACTOR SHALL FABRICATE AND SPLICE THE ENDS TO SUIT THE PILING EQUIPMENT.
- ALL WELDING SHALL BE CATEGORY B IN ACCORDANCE WITH AS/NZS 1164 PART 1 2004 WELDING OF STEEL STRUCTURES.
- WELD TESTING OF PILES SHALL BE IN ACCORDANCE WITH THE SPECIFICATIONS.
- SUPPLIED PILE LENGTH MAY NOT INCLUDE ALLOWANCE FOR DAMAGE DUE TO PILE DRIVING.
- PILES SHALL BE INSTALLED TO THE FOLLOWING TOLERANCES: - PLAN POSITION AFTER INSTALLATION ±100mm AT MEAN SEA LEVEL - DEVIATION FROM VERTICAL 1:100
- ALL PILES SHALL BE INSTALLED AND FINALLY DRIVEN TO THE EMBEDMENT SHOWN ON THE DRAWINGS.
- REFER TO SPECIFICATION FOR INFORMATION OF TIMBER PILES.

LEGEND TO DATUMS

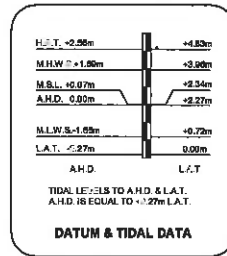
- HAT: HIGHEST ASTRONOMICAL TIDE
- MHW: MEAN HIGH WATER SPRING
- MSL: MEAN SEA LEVEL
- AHD: AUSTRALIAN HEIGHT DATUM
- MLWS: MEAN LOW WATER SPRING
- LAT: LOWEST ASTRONOMICAL TIDE

LEGEND TO ABBREVIATIONS

- CFW: CONTINUOUS FILLET WELD
- LGA: LENGTH OF GALL
- UNO: UNLESS NOTED OTHERWISE
- SS: STAINLESS STEEL
- TBC: TO BE CONFIRMED
- TOSI: TACTILE GROUND SURFACE INDICATOR
- CRS: CENTRIS

MATERIALS SCHEDULE

COMPONENT	MATERIAL
PONTON	STEEL
PONTON FENDER SUPPORTS	STEEL
ELEVATED WALKWAY	ALUMINIUM
GANGWAY	ALUMINIUM
PONTON BALLSTRAD	ALUMINIUM
PONTON ROOF FRAME	STEEL
ROOF CLADDING AND FILLING	ALUMINIUM
PLATFORM AND RAMPS	ALUMINIUM
GANGWAY LIFTING GANTRY	STEEL



TIDAL LEVELS TO A.H.D. & L.A.T. A.H.D. IS EQUAL TO +0.27m L.A.T.

DATUM & TIDAL DATA

PLANS AND DOCUMENTS referred to in the DEVELOPMENT APPROVAL. Approved no. 04/0014 Date: 04/0014

CERTIFICATION

DISCIPLINE	DRAWN	CHECKED	DATE	BY	DATE
MARINE					

PROJECT MANAGEMENT INITIALS

DESIGNER	CHIEF	APPROVED

PROJECT DATA

DRAWN	DATE	SUPPLY	SCALE

REVISIONS

NO	DATE	DESCRIPTION

PROJECT NUMBER

0000018

SHEET TITLE

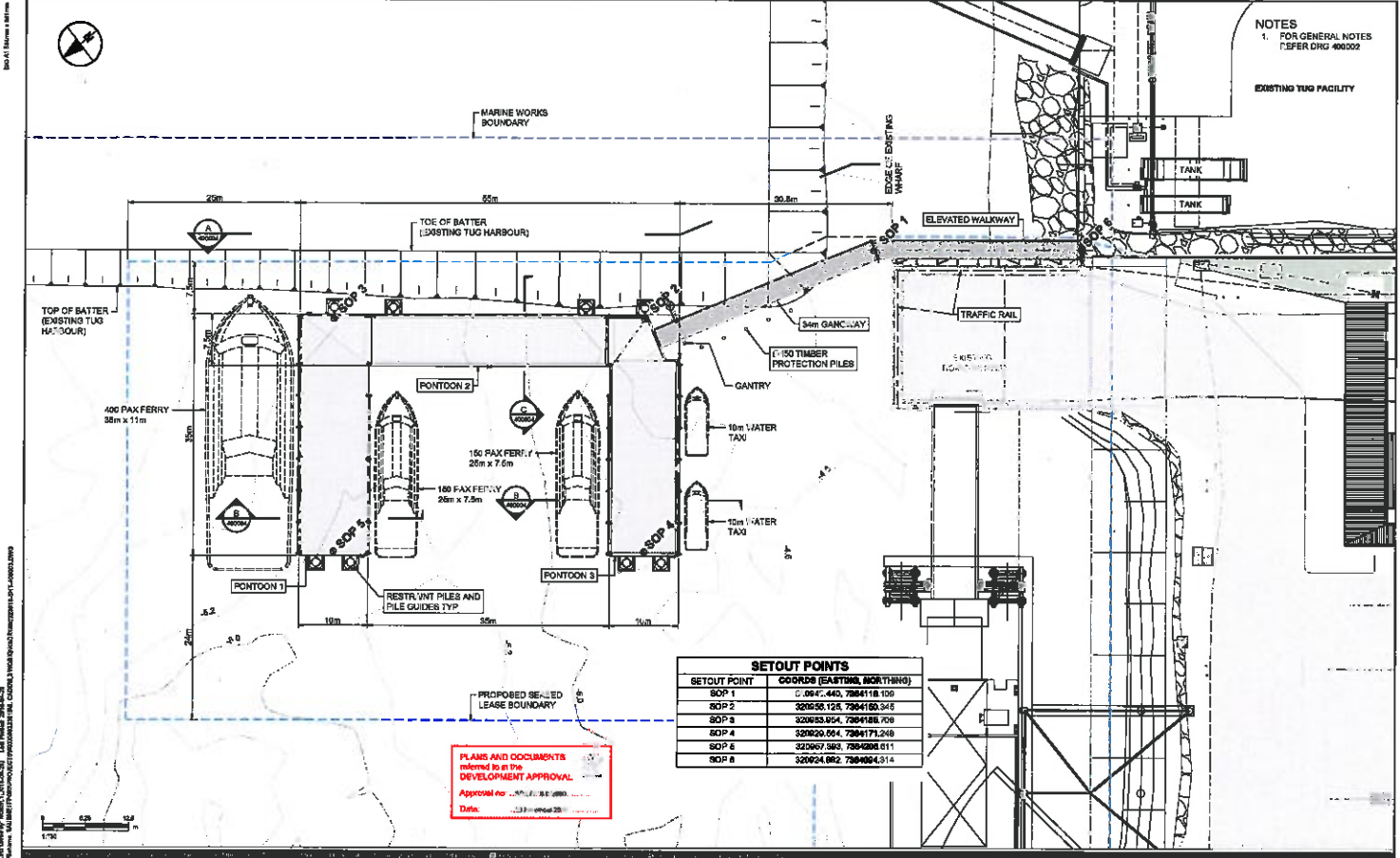
FERRY FACILITY
GENERAL NOTES

SHEET NUMBER

400002

REVISION

0



NOTES
 1. FOR GENERAL NOTES REFER Dwg 400000
 EXISTING TUG FACILITY

SETOUT POINTS

SETOUT POINT	COORDS (EASTING, NORTHING)
SOP 1	6947440, 7884118.109
SOP 2	320556128, 7884160.345
SOP 3	320620354, 7884166.709
SOP 4	320620584, 7884171.249
SOP 5	320607383, 7884208.611
SOP 6	320624982, 7884004.514

PLANS AND DOCUMENTS
 referred to in the
DEVELOPMENT APPROVAL
 Approval No. ...
 Date: ...

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PROJECT
 RG Tanna Marine
 Operations Terminal
 GLADSTONE

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Santos
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 A BQ Group Member

CERTIFICATION

DISCIPLINE	CHECKED	REVISION	NO	DATE
SURVEY

PROJECT MANAGEMENT INITIALS

NO	DATE	INITIALS

PROJECT DATA

DATE	BY	REVISION	DESCRIPTION

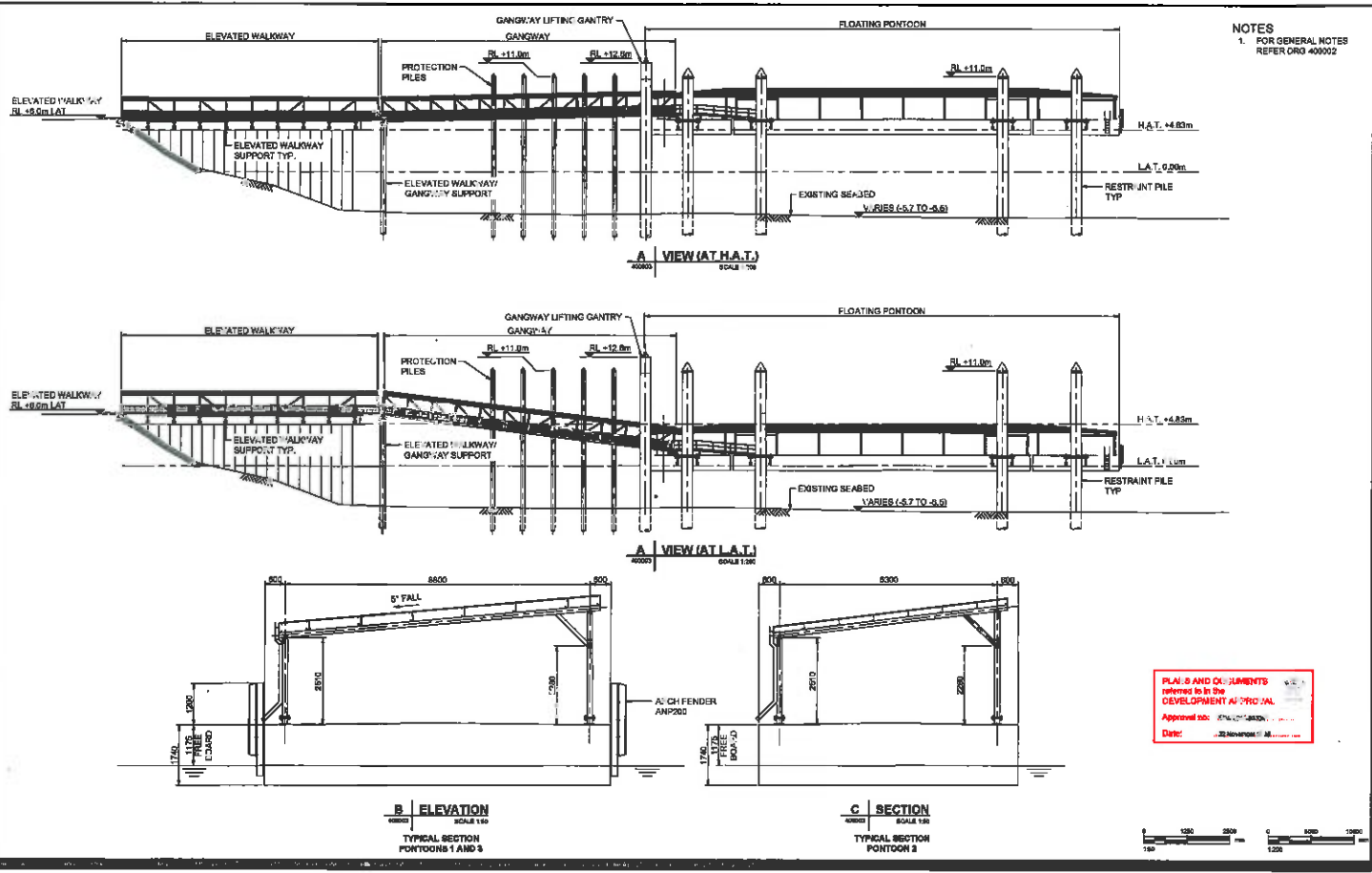
ISSUE/REVISION

NO	DATE	DESCRIPTION

PROJECT NUMBER
 600001918
SHEET TITLE
 FERRY FACILITY
 GENERAL ARRANGEMENT
 PLAN
SHEET NUMBER
 400000
REVISION
 0

RD 11 Marine 14/1/16

Lead Project: 21/1/16
Lead Designer: 21/1/16
Lead Engineer: 21/1/16
Lead Checker: 21/1/16
Lead Approver: 21/1/16



NOTES
 1. FOR GENERAL NOTES
 REFER DRG 400002

PLAN, SECTION AND EQUIPMENTS
 referred to in the
 DEVELOPMENT APPROVAL
 Approval No: 21/1/16
 Date: 21/1/16

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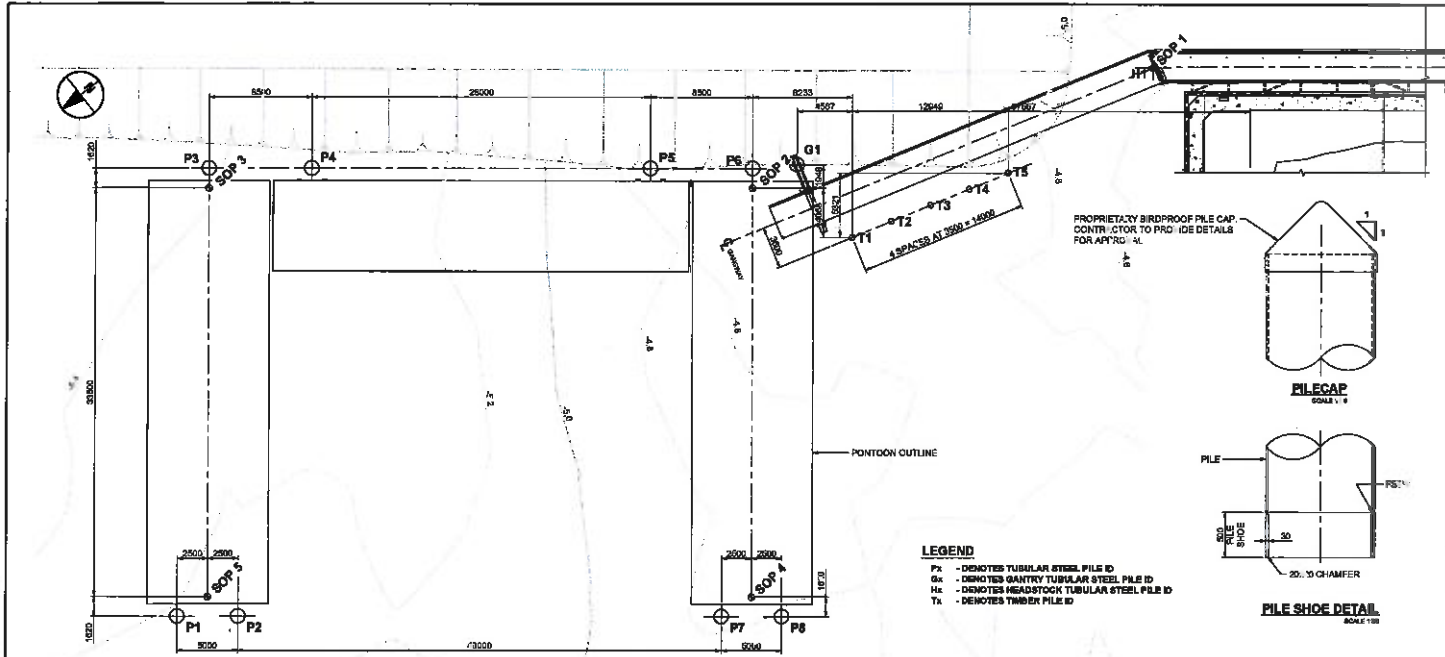
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DISCIPLINE	CERTIFIER	SP/DATE
DESIGNER	DESIGNED	APPROVED
CHECKER	CHECKED	APPROVED
DATE	DATE	SURVEY DATA

PROJECT MANAGEMENT INITIALS		
DESIGNER	TP	NO

ISSUE/REVISION		
NO	DATE	DESCRIPTION
1	25/04/17	ISSUED FOR CONSTRUCTION
2		

PROJECT NUMBER	
SHEET TITLE	REVISION
00323519	
FERRY FACILITY GENERAL ARRANGEMENT ELEVATIONS AND SECTIONS	

Scale: 1:1000. Date: 28/09/2018. Project: Santos CLNG. Drawing: PILE SETOUT PLAN.



PILE SETOUT PLAN

PILE SCHEDULE (CONT...)

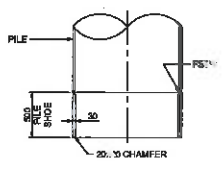
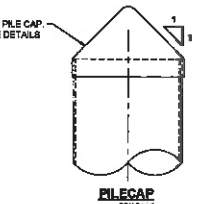
PILE ID	PILE SIZE O.D (mm)	THICKNESS (mm)	CUTOFF LEVEL (m LAT)	ULT STRUCTURAL AXIAL LOAD (kN)		SEALED LEVEL (m LAT)	MIN TOE LEVEL (m LAT)	EMBEDMENT LENGTH (m)	PILE LENGTH (m)
				COMPRESSION	TENSION				
P1	Ø1200	20	11,000	-	-	-5.2	-19	19.8	30
P2	Ø1200	20	11,000	-	-	-5.2	-19	19.8	30
P3	Ø1200	20	11,000	-	-	-5.4	-19	19.6	30
P4	Ø1200	20	11,000	-	-	-5.4	-19	19.6	30
P5	Ø1200	20	11,000	-	-	-4.8	-19	14.2	30
P6	Ø1200	20	11,000	-	-	-4.8	-19	14.2	30
P7	Ø1200	20	11,000	-	-	-4.8	-19	14.2	30
P8	Ø1200	20	11,000	-	-	-4.8	-19	14.2	30
G1	Ø1200	20	12.8	-	-	-4.8	-19	14.2	27.6
H1	Ø610	12.7	5,268	418	218	-4.8	-21	19.7	28.3

PILE SCHEDULE

PILE ID	PILE SIZE O.D (mm)	CUTOFF LEVEL (m LAT)	ULT STRUCTURAL AXIAL LOAD (kN)		SEALED LEVEL (m LAT)	MIN TOE LEVEL (m LAT)	EMBEDMENT LENGTH (m)	PILE LENGTH (m)
			COMPRESSION	TENSION				
T1	Ø150	11,000	-	-	-4.8	-14	7.5	26
T2	Ø450	11,000	-	-	-4.8	-14	7.5	26
T3	Ø450	11,000	-	-	-4.8	-14	7.5	26
T4	Ø150	11,000	-	-	-4.8	-14	7.5	26
T5	Ø450	11,000	-	-	-4.8	-14	7.5	26

LEGEND
 P# - DENOTES TUBULAR STEEL PILE ID
 G# - DENOTES GANTRY TUBULAR STEEL PILE ID
 H# - DENOTES HEADSTOCK TUBULAR STEEL PILE ID
 T# - DENOTES TIMBER PILE ID

PROPRIETARY BIRDPROOF PILE CAP.
 CONTRACTOR TO PROVIDE DETAILS FOR APPROVAL.



NOTES
 1. FOR GENERAL NOTES REFER DRG 400002.

PLANS AND DOCUMENTS
 retained to be the DEVELOPMENT APPROVAL
 Approval no.: Santos Santos
 Date: 28/09/2018

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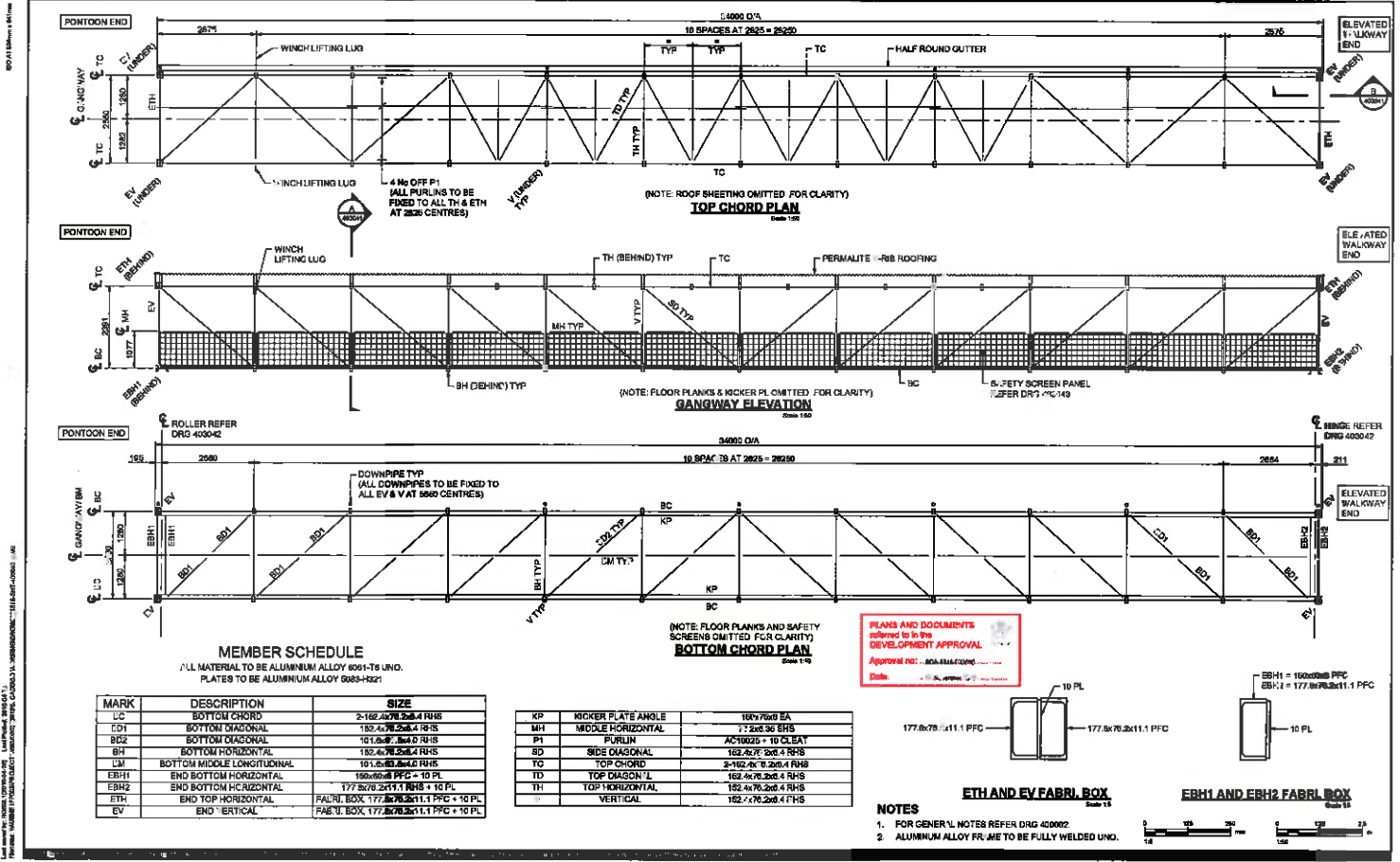
CERTIFICATION | **PROJECT MANAGEMENT INITIALS** | **ISSUE/REVISION** | **PROJECT NUMBER**

DESIGNER: [] CHECKED: [] APPROVED: []

PROJECT DATA: []

DATE: [] BY: []

SHEET NUMBER: [] REVISION: []



MEMBER SCHEDULE

ALL MATERIAL TO BE ALUMINIUM ALLOY 6061-T6 UNO.
PLATES TO BE ALUMINIUM ALLOY 5083-H32

MARK	DESCRIPTION	SIZE
LC	BOTTOM CHORD	2-162.4x76.2x6.4 RHS
BD1	BOTTOM DIAGONAL	182.4x76.2x6.4 RHS
BD2	BOTTOM DIAGONAL	161.8x76.2x6.4 RHS
BH	BOTTOM HORIZONTAL	182.4x76.2x6.4 RHS
LM	BOTTOM MIDDLE LONGITUDINAL	101.8x83.2x6.4 RHS
EBH1	END BOTTOM HORIZONTAL	180x83.2x6.4 PFC + 10 PL
EBH2	END BOTTOM HORIZONTAL	177.8x76.2x11.1 RHS + 10 PL
ETH	END TOP HORIZONTAL	FAB'L BOX 177.8x76.2x11.1 PFC + 10 PL
EV	END VERTICAL	FAB'L BOX 177.8x76.2x11.1 PFC + 10 PL

MARK	DESCRIPTION	SIZE
KP	KICKER PLATE ANGLE	160x76x8 EA
MH	MIDDLE HORIZONTAL	17.2x83.36 SHS
P1	PURLIN	ACT/100x25 + 10 GLEAT
SD	SIDE DIAGONAL	152.8x76.2x6.4 RHS
TC	TOP CHORD	2-162.4x76.2x6.4 RHS
TD	TOP DIAGONAL	182.4x76.2x6.4 RHS
TH	TOP HORIZONTAL	182.4x76.2x6.4 RHS
V	VERTICAL	182.4x76.2x6.4 RHS

PLANS AND DOCUMENTS referred to in this DEVELOPMENT APPROVAL
Approval no.: 804/2019/00000000
Date: 20/08/2019



- NOTES**
- FOR GENERAL NOTES REFER DRG 400002
 - ALUMINIUM ALLOY FR. ME TO BE FULLY WELDED UNO.



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AECOM Australia Pty Ltd
4, B.M. St. 500 540 625
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PROJECT
RG Tanna Marine Operations Terminal
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CERTIFICATION

DESIGNER	CHECKER	ISSUED
DATE	DATE	DATE

PROJECT MANAGEMENT INITIALS

DESIGNER	TD	ISS
DESIGNER	DESIGNER	APPROVED

PROJECT DATA

DATE	AND	SUBJECT
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ISSUE/REVISION

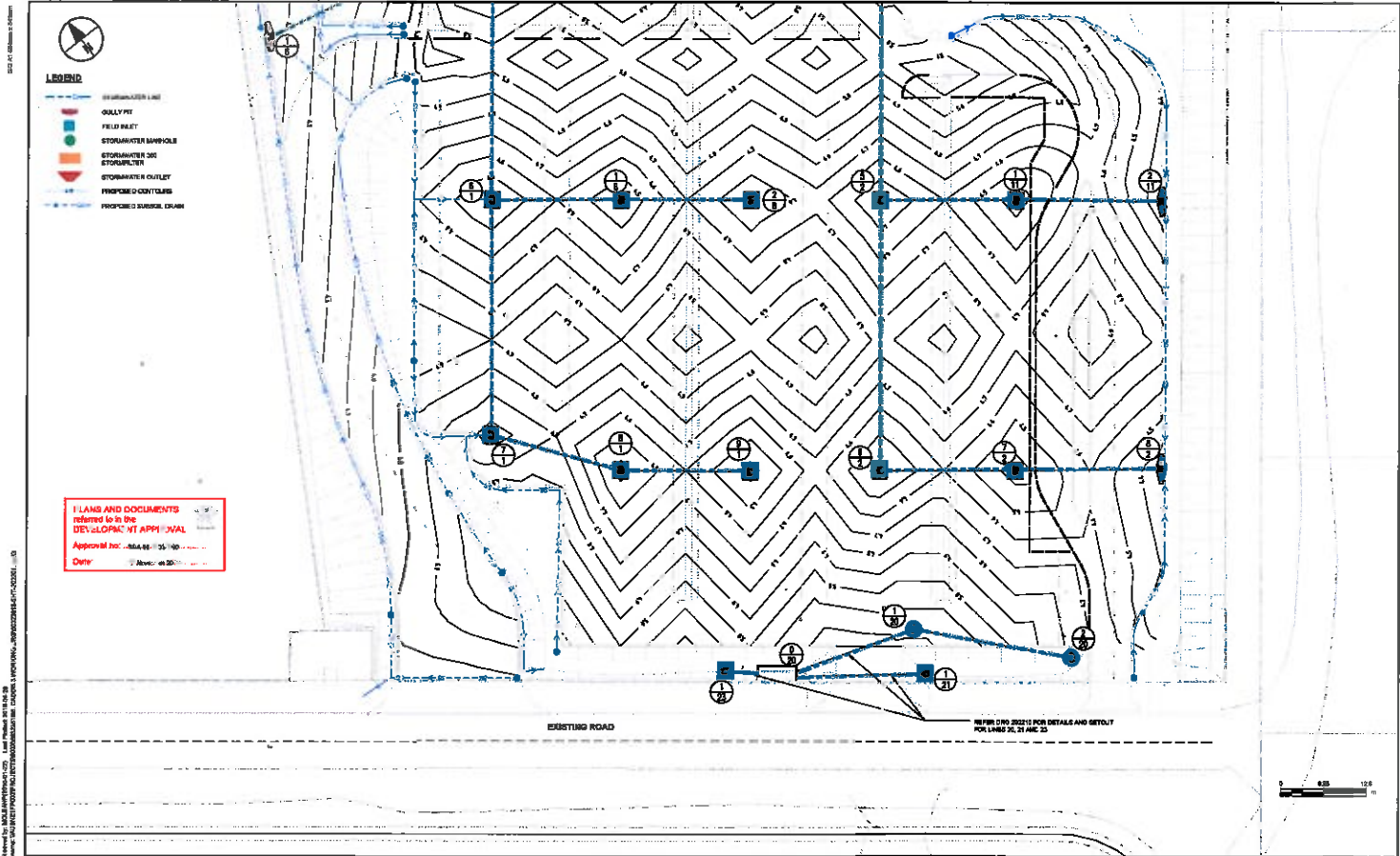
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PROJECT NUMBER
00375618

SHEET TITLE
FERRY FACILITY GANGWAY PLAN AND SECTIONS

SHEET NUMBER
400040

REVISION



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CERTIFICATION

DESIGNER	DATE	APPROVED
CIVIL	10/12/20	10/12/20

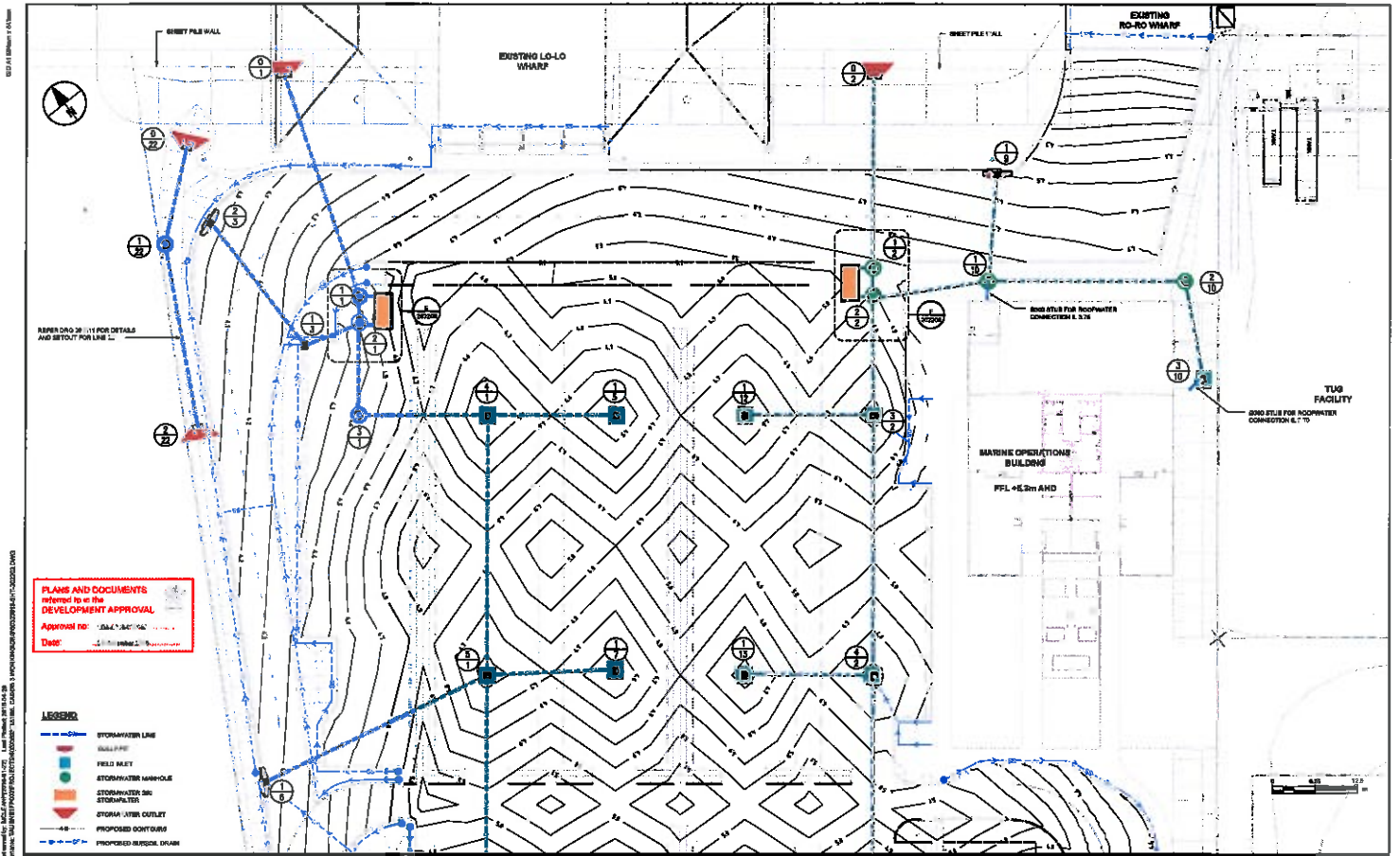
PROJECT MANAGEMENT INITIALS

MP	10	20
DESIGNED	CHECKED	APPROVED

(S)ER/REVISION

NO.	DATE	DESCRIPTION
1	20/12/20	SUBMIT FOR CONSTRUCTION

PROJECT NUMBER
 20220116
SHEET TITLE
 MARINE OPERATIONS TERMINAL
 STORMWATER LAYOUT
 SHEET 1
SHEET NUMBER
 202201



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 4/7/2014/0010

PROJECT
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 Operations Terminal
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CERTIFICATION

DISCIPLINE	CERTIFIER	SPECIAL
ENV	PLS	300

PROJECT MANAGEMENT NOTALS

NO	NO	NO
DESIGNER	CHECKED	APPROVED

PROJECT DATA

DRAWN	AND	SURVEY	DATE

REVISION

NO	DATE	ISSUED FOR CONSTRUCTION	DESCRIPTION
1	10/04/18	ISSUED FOR CONSTRUCTION	

PROJECT NUMBER
 00-2-316
SHEET TITLE
 MARINE OPERATIONS TERMINAL
 STORMWATER LAYOUT
 SHEET 2
SHEET NUMBER
 202202
REVISION
 0

to the proceeding.

- (2) The notice must state the grounds of the appeal.

485 Respondent and co-respondents for appeals under div 8

- (1) Subsections (2) to (8) apply for appeals under sections 461 to 464.
- (2) The assessment manager is the respondent for the appeal.
- (3) If the appeal is started by a submitter, the applicant is a co-respondent for the appeal.
- (4) Any submitter may elect to become a co-respondent for the appeal.
- (5) If the appeal is about a concurrence agency's response, the concurrence agency is a co-respondent for the appeal.
- (6) If the appeal is only about a concurrence agency's response, the assessment manager may apply to the court to withdraw from the appeal.
- (7) The respondent and any co-respondents for an appeal are entitled to be heard in the appeal as a party to the appeal.
- (8) A person to whom a notice of appeal is required to be given under section 482 and who is not the respondent or a co-respondent for the appeal may elect to be a co-respondent.
- (9) For an appeal under section 465—
 - (a) the assessment manager is the respondent; and
 - (b) if the appeal is started by a concurrence agency that gave the assessment manager a notice under section 385—the person asking for the extension the subject of the appeal is a co-respondent; and
 - (c) any other person given notice of the appeal may elect to become a co-respondent.
- (10) For an appeal under section 466—

[s 484]

- (b) if the appellant is a person to whom a notice mentioned in section 470(1) has been given—
 - (i) the entity that gave the notice; and
 - (ii) if the entity that gave the notice was a nominated entity of a local government and the written agreement of the local government was required to give the notice—the local government.
- (2) The notice must state the grounds of the appeal.

484 Notice of appeal to other parties—other matters

- (1) An appellant under division 10 must, within 10 business days after the day the appeal is started, give written notice of the appeal to—
 - (a) if the appeal is under section 472 or 475—the local government; or
 - (b) if the appeal is under section 475A(1)—the Minister; or
 - (c) if the appeal is under section 475A(3)—the Minister and the owner of the registered premises; or
 - (d) if the appeal is under section 478—the entity that gave the notice the subject of the appeal; or
 - (e) if the appellant is a person to whom an enforcement notice is given—the entity that gave the notice and if the entity is not the local government, the local government; or
 - (f) if the appellant is a person dissatisfied with a decision about compensation—the local government that decided the claim; or
 - (g) if the appellant is a person dissatisfied with a decision about acquiring designated land—the designator; or
 - (h) if the appellant is a party to a proceeding decided by a building and development committee—the other party

-
- (e) if the appellant is a person to whom a notice mentioned in section 467 has been given—the entity that gave the notice.
- (2) The notice must be given within—
 - (a) if the appellant is a submitter or advice agency whose response to the development application is treated as a submission for an appeal—2 business days after the appeal is started; or
 - (b) otherwise—10 business days after the appeal is started.
 - (3) The notice must state—
 - (a) the grounds of the appeal; and
 - (b) if the person given the notice is not the respondent or a co-respondent under section 485—that the person may, within 10 business days after the notice is given, elect to become a co-respondent to the appeal by filing in the court a notice of election in the approved form.

483 Notice of appeals to other parties—compliance assessment

- (1) An appellant under division 9 must, within 10 business days after the day the appeal is started, give written notice of the appeal to—
 - (a) if the appellant is a person to whom an action notice, compliance permit or compliance certificate has been given—
 - (i) the compliance assessor who gave the notice, permit or certificate; and
 - (ii) if the compliance assessor was a nominated entity of a local government and a copy of the request for compliance assessment was given to the local government under section 402—the local government; or

[s 482]

- (b) if the appellant is a submitter or an advice agency whose response to the development application is treated as a submission for an appeal—
 - (i) the chief executive; and
 - (ii) the assessment manager; and
 - (iii) any referral agency; and
 - (iv) the applicant; or
- (c) if the appellant is a person to whom a notice mentioned in section 465(1) has been given—
 - (i) the chief executive; and
 - (ii) the assessment manager for the development application to which the notice relates; and
 - (iii) any entity that was a concurrence agency for the development application to which the notice relates; and
 - (iv) the person who made the request under section 383 to which the notice relates, if the person is not the appellant; or
- (d) if the appellant is a person mentioned in section 466(1)—
 - (i) the chief executive; and
 - (ii) the responsible entity for making the change to which the appeal relates; and
 - (iii) the person who made the request to which the appeal relates under section 369, if the person is not the appellant; and
 - (iv) if the responsible entity is the assessment manager—any entity that was a concurrence agency for the development application to which the notice of the decision on the request relates; or

480 Court may remit matter to building and development committee

If an appeal includes a matter within the jurisdiction of a building and development committee and the court is satisfied the matter should be dealt with by a building and development committee, the court must remit the matter to the committee for decision.

Division 11 Making an appeal to court

481 How appeals to the court are started

- (1) An appeal is started by lodging written notice of appeal with the registrar of the court.
- (2) The notice of appeal must state the grounds of the appeal.
- (3) The person starting the appeal must also comply with the rules of the court applying to the appeal.
- (4) However, the court may hear and decide an appeal even if the person has not complied with subsection (3).

482 Notice of appeal to other parties—development applications and approvals

- (1) An appellant under division 8 must give written notice of the appeal to—
 - (a) if the appellant is an applicant—
 - (i) the chief executive; and
 - (ii) the assessment manager; and
 - (iii) any concurrence agency; and
 - (iv) any principal submitter whose submission has not been withdrawn; and
 - (v) any advice agency treated as a submitter whose submission has not been withdrawn; or

[s 478A]

- (ii) the cost of infrastructure decided using the method included in the local government's charges resolution.
- (4) The appeal must be started within 20 business days after the day the recipient is given the relevant infrastructure charges notice.

478A Appeals against refusal of conversion application

- (1) The applicant for a conversion application may appeal to the court against a refusal, or deemed refusal, of the application.
- (2) The appeal must be started within the following period—
 - (a) if the applicant is given written notice of the refusal—20 business days after the day the applicant is given the notice;
 - (b) otherwise—20 business days after the end of the required period under section 660(5) for the application.

479 Appeals from building and development committees

- (1) A party to a proceeding decided by a building and development committee may appeal to the court against the committee's decision, but only on the ground—
 - (a) of an error or mistake in law on the part of the committee; or
 - (b) that the committee had no jurisdiction to make the decision or exceeded its jurisdiction in making the decision.
- (2) An appeal against a building and development committee's decision must be started within 20 business days after the day notice of the committee's decision is given to the party.

- (3) An appeal under subsection (1)(b) may be started at any time after the last day a decision on the matter should have been made.

478 Appeals about infrastructure charges notice

- (1) The recipient of an infrastructure charges notice may appeal to the court about the decision to give the notice.
- (2) However, the appeal may be made only on 1 or more of the following grounds—
- (a) the charge in the notice is so unreasonable that no reasonable relevant local government could have imposed it;
 - (b) the decision involved an error relating to—
 - (i) the application of the relevant adopted charge; or
 - (ii) the working out, for section 636, of additional demand; or
 - (iii) an offset or refund;
 - (c) there was no decision about an offset or refund;
Examples of possible errors in applying an adopted charge—
 - the incorrect application of gross floor area for a non-residential development
 - applying an incorrect ‘use category’ under an SPRP (adopted charges) to the development
 - (d) if the infrastructure charges notice states a refund will be given—the timing for giving the refund.
- (3) To remove any doubt, it is declared that the appeal must not be about—
- (a) the adopted charge itself; or
 - (b) for a decision about an offset or refund—
 - (i) the establishment cost of infrastructure identified in an LGIP; or

[s 476]

person for the premises who is dissatisfied with the decision may appeal to the court against the decision.

- (4) An appeal under subsection (3) must be started within 20 business days after the day notice about the registration or renewal is published under section 680Y.
- (5) In this section—

relevant person, for premises, means any owner or occupier of land in the affected area for the premises.

476 Appeals against decisions on compensation claims

- (1) A person who is dissatisfied with a decision under section 710 or 716 for the payment of compensation may appeal to the court against—
 - (a) the decision; or
 - (b) a deemed refusal of the claim.
- (2) An appeal under subsection (1)(a) must be started within 20 business days after the day notice of the decision is given to the person.
- (3) An appeal under subsection (1)(b) may be started at any time after the last day a decision on the matter should have been made.

477 Appeals against decisions on requests to acquire designated land under hardship

- (1) A person who is dissatisfied with a designator's decision to refuse a request made by the person under section 222 may appeal to the court against—
 - (a) the decision; or
 - (b) a deemed refusal of the request.
- (2) An appeal under subsection (1)(a) must be started within 20 business days after the day notice of the decision is given to the person.

- (d) the removal of quarry material allocated under the *Water Act 2000*; or
- (e) extracting clay, gravel, rock, sand or soil, not mentioned in paragraph (d), from Queensland waters; or
- (f) development the assessing authority reasonably believes is causing erosion or sedimentation; or
- (g) development the assessing authority reasonably believes is causing an environmental nuisance.

475 Appeals against local laws

- (1) This section applies if—
 - (a) an applicant is dissatisfied with a decision of a local government or the conditions applied under a local law about the use of premises or the erection of a building or other structure; and
 - (b) the use is not prohibited development under the planning scheme or a temporary local planning instrument for the planning scheme area.
- (2) The applicant may appeal to the court against the decision or the conditions applied.
- (3) The appeal must be started within 20 business days after the day notice of the decision is given to the applicant.

475A Appeals against decisions under ch 8A

- (1) A person who has been given an information notice for a decision of the Minister under chapter 8A, part 3 may appeal to the court against the decision.
- (2) An appeal under subsection (1) must be started within 20 business days after the day the information notice is given.
- (3) If the Minister decides, under chapter 8A, part 3, to register premises or to renew the registration of premises, a relevant

[s 473]

- (3) Also, a person who has made a request under section 98(2) may appeal to the court against a deemed refusal of the request.
- (4) An appeal under subsection (3) may be started at any time after the last day the decision on the matter should have been made.
- (5) However, an appeal under this section may only be about whether the refusal is so unreasonable that no reasonable relevant local government could have refused the request.

473 Appeals against enforcement notices

- (1) A person who is given an enforcement notice may appeal to the court against the giving of the notice.
- (2) The appeal must be started within 20 business days after the day notice is given to the person.

474 Stay of operation of enforcement notice

- (1) The lodging of a notice of appeal about an enforcement notice stays the operation of the enforcement notice until—
 - (a) the court, on the application of the entity issuing the notice, decides otherwise; or
 - (b) the appeal is withdrawn; or
 - (c) the appeal is dismissed.
- (2) However, subsection (1) does not apply if the enforcement notice is about—
 - (a) a work, if the enforcement notice states the entity believes the work is a danger to persons or a risk to public health; or
 - (b) stopping the demolition of a work; or
 - (c) clearing vegetation on freehold land; or

469 Appeals against condition imposed on compliance permit or certificate

- (1) A person who is given a compliance permit or compliance certificate subject to any conditions may appeal to the court against the decision to impose the condition.
- (2) The appeal must be started within 20 business days after the day the compliance permit or compliance certificate is given to the person.

470 Appeals against particular decisions about compliance assessment

- (1) A person to whom any of the following notices have been given may appeal to the court against the decision in the notice—
 - (a) a notice of a decision on a request to change or withdraw an action notice;
 - (b) a notice under section 413(2)(c) about a decision to refuse a request to change a compliance permit or compliance certificate.
- (2) The appeal must be started within 20 business days after the day the notice is given to the person.

Division 10 Appeals to court about other matters

472 Appeal about extension of period under s 98

- (1) A person who has requested an extension under section 98(2) may appeal to the court against a refusal of the request.
- (2) An appeal under subsection (1) must be started within 20 business days after the day the person is given notice of the refusal.

[s 467]

- (b) if the responsible entity for making the change is a concurrence agency for the application—the person who made the request.
- (2) The appeal must be started within 20 business days after the day the person is given notice of the decision on the request under section 376.
- (3) Also, a person who has made a request under section 369 may appeal to the court against a deemed refusal of the request.
- (4) An appeal under subsection (3) may be started at any time after the last day the decision on the matter should have been made.

467 Appeals about changing or cancelling conditions imposed by assessment manager or concurrence agency

- (1) A person to whom a notice under section 378(9)(b) giving a decision to change or cancel a condition of a development approval has been given may appeal to the court against the decision in the notice.
- (2) The appeal must be started within 20 business days after the day the notice of the decision is given to the person.

Division 9 Appeals to court about compliance assessment

468 Appeals against decision on request for compliance assessment

- (1) A person to whom an action notice has been given under section 405(5) about a request for compliance assessment of development, a document or work may appeal to the court against the decision in the notice.
- (2) The appeal must be started within 20 business days after the notice is given to the person.

- (b) any part of the approval relating to the assessment manager's decision under section 327.
- (3) The appeal must be started within 20 business days after the day the decision notice or negotiated decision notice is given to the advice agency as a submitter.
- (4) However, if the advice agency has given the assessment manager a notice under section 339(1)(b)(ii), the advice agency may not appeal the decision.

465 Appeals about decisions relating to extensions for approvals

- (1) For a development approval given for a development application, a person to whom a notice is given under section 389, other than a notice for a decision under section 386(2), may appeal to the court against the decision in the notice.
- (2) The appeal must be started within 20 business days after the day the notice of the decision is given to the person.
- (3) Also, a person who has made a request under section 383 may appeal to the court against a deemed refusal of the request.
- (4) An appeal under subsection (3) may be started at any time after the last day the decision on the matter should have been made.

466 Appeals about decisions relating to permissible changes

- (1) For a development approval given for a development application, the following persons may appeal to the court against a decision on a request to make a permissible change to the approval—
 - (a) if the responsible entity for making the change is the assessment manager for the application—
 - (i) the person who made the request; or
 - (ii) an entity that gave a notice under section 373 or a pre-request response notice about the request;

[s 463]

463 Additional and extended appeal rights for submitters for particular development applications

- (1) This section applies to a development application to which chapter 9, part 7 applies.
- (2) A submitter of a properly made submission for the application may appeal to the court about a referral agency's response made by a concurrence agency for the application.
- (3) However, the submitter may only appeal against a referral agency's response to the extent it relates to—
 - (a) development for an aquacultural ERA; or
 - (b) development that is—
 - (i) a material change of use of premises for aquaculture; or
 - (ii) operational work that is the removal, damage or destruction of a marine plant.
- (4) Despite section 462(1), the submitter may appeal against the following matters for the application even if the matters relate to code assessment—
 - (a) a decision about a matter mentioned in section 462(2) if it is a decision of the chief executive;
 - (b) a referral agency's response mentioned in subsection (2).

464 Appeals by advice agency submitters

- (1) Subsection (2) applies if an advice agency, in its response for an application, told the assessment manager to treat the response as a properly made submission.
- (2) The advice agency may, within the limits of its jurisdiction, appeal to the court about—
 - (a) any part of the approval relating to the assessment manager's decision about any part of the application requiring impact assessment under section 314; or

-
- (3) An appeal under subsection (1)(e) may be started at any time after the last day a decision on the matter should have been made.

462 Appeals by submitters—general

- (1) A submitter for a development application may appeal to the court only against—
- (a) the part of the approval relating to the assessment manager's decision about any part of the application requiring impact assessment under section 314; or
 - (b) the part of the approval relating to the assessment manager's decision under section 327.
- (2) To the extent an appeal may be made under subsection (1), the appeal may be against 1 or more of the following—
- (a) the giving of a development approval;
 - (b) any provision of the approval including—
 - (i) a condition of, or lack of condition for, the approval; or
 - (ii) the length of a period mentioned in section 341 for the approval.
- (3) However, a submitter may not appeal if the submitter—
- (a) withdraws the submission before the application is decided; or
 - (b) has given the assessment manager a notice under section 339(1)(b)(ii).
- (4) The appeal must be started within 20 business days (the *submitter's appeal period*) after the decision notice or negotiated decision notice is given to the submitter.

[s 461]

part of the local planning instrument, in force for the local government at a time stated in the document, the chief executive officer may so certify the document.

- (2) In a proceeding, a document certified under subsection (1) is admissible in evidence as if it were the original local planning instrument or part of the instrument.

Division 8 Appeals to court relating to development applications and approvals

461 Appeals by applicants

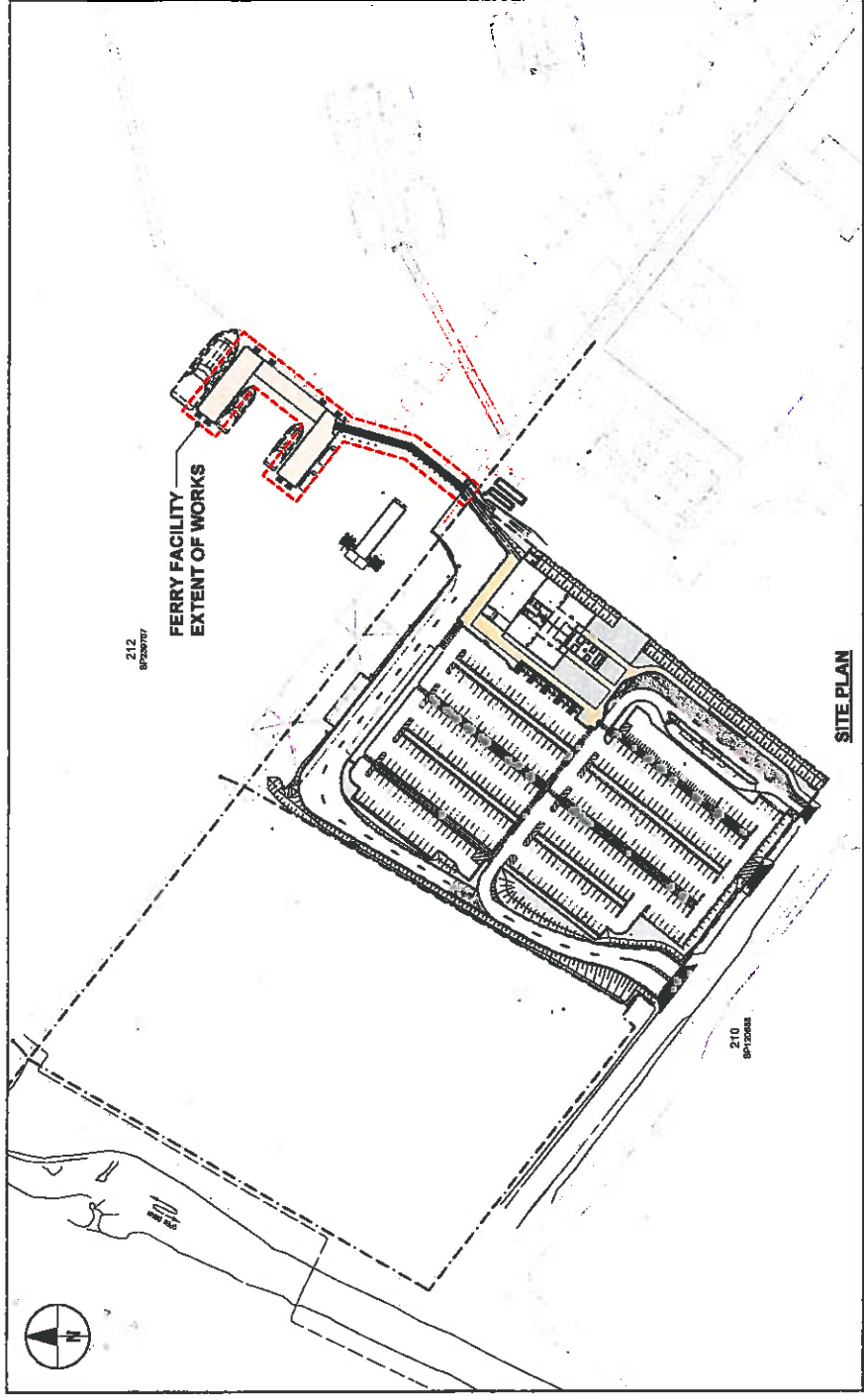
- (1) An applicant for a development application may appeal to the court against any of the following—
- (a) the refusal, or the refusal in part, of the development application;
 - (b) any condition of a development approval, another matter stated in a development approval and the identification or inclusion of a code under section 242;
 - (c) the decision to give a preliminary approval when a development permit was applied for;
 - (d) the length of a period mentioned in section 341;
 - (e) a deemed refusal of the development application.
- (2) An appeal under subsection (1)(a), (b), (c) or (d) must be started within 20 business days (the *applicant's appeal period*) after—
- (a) if a decision notice or negotiated decision notice is given—the day the decision notice or negotiated decision notice is given to the applicant; or
 - (b) otherwise—the day a decision notice was required to be given to the applicant.

RG TANNA MARINE OPERATIONS TERMINAL

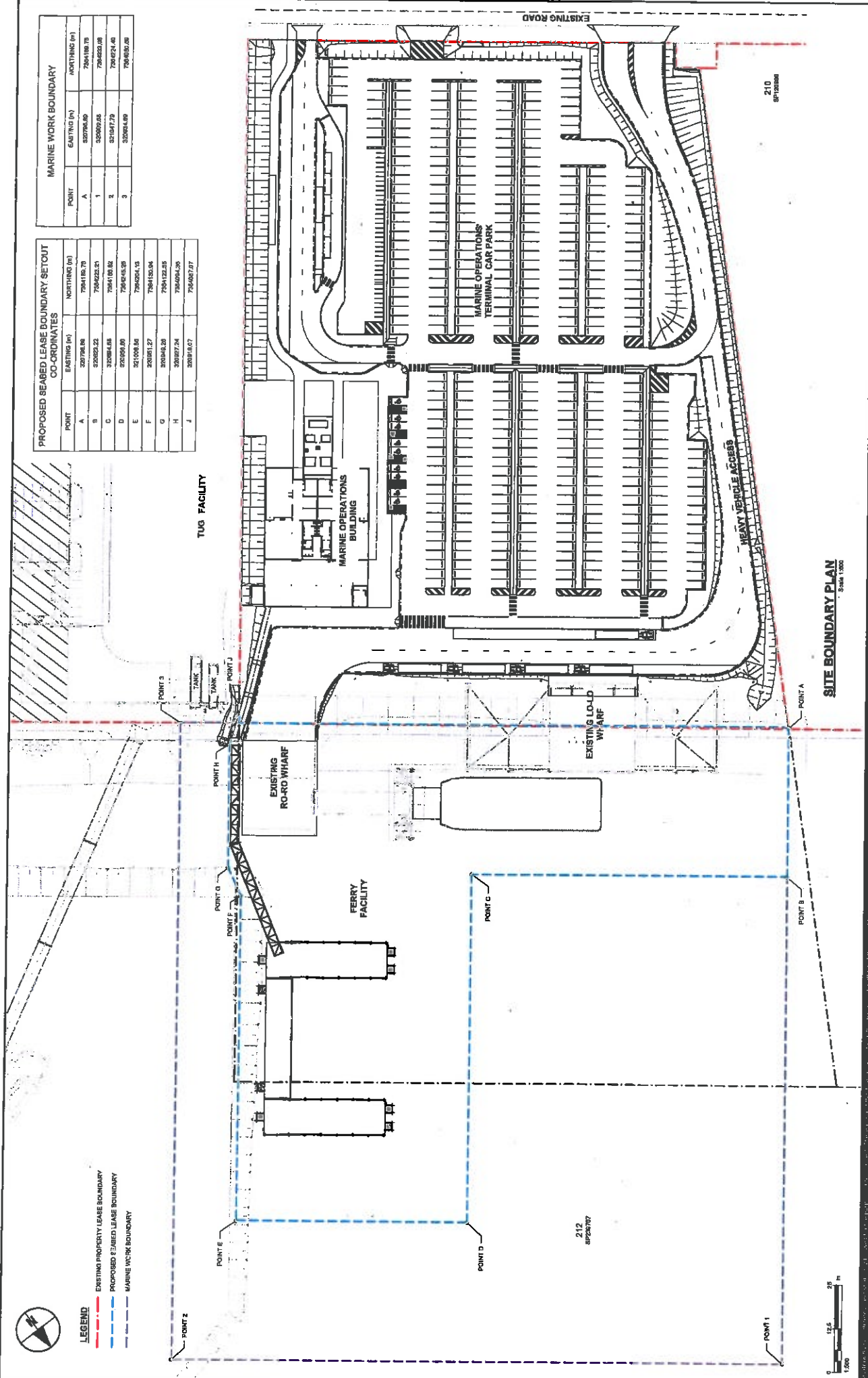
FERRY FACILITY STRUCTURAL DRAWINGS

DRAWING LIST

400000	SITE PLAN & DRAWING LIST
400001	SITE BOUNDARY PLAN
400002	GENERAL NOTES
400003	GENERAL ARRANGEMENT - PLAN
400004	GENERAL ARRANGEMENT - ELEVATIONS AND SECTIONS
400005	GENERAL ARRANGEMENT - DECK FURNITURE PLAN
400006	PILES - SETOUT AND SCHEDULE
400007	PONTOONS - DECK - STEELWORK ARRANGEMENT PLAN
400008	PONTOON 1 - TOP PLATE ARRANGEMENT
400009	PONTOON 1 - BOTTOM PLATE ARRANGEMENT
400010	PONTOON 1 - END AND SIDE PLATES
400011	PONTOON 2 - TOP PLATE ARRANGEMENT
400012	PONTOON 2 - BOTTOM PLATE ARRANGEMENT
400013	PONTOON 2 - END AND SIDE PLATES
400014	PONTOON 3 - TOP PLATE ARRANGEMENT
400015	PONTOON 3 - BOTTOM PLATE ARRANGEMENT
400016	PONTOON 3 - END AND SIDE PLATES
400017	PONTOONS - DETAILS SHEET 1
400018	PONTOONS - DETAILS SHEET 2
400019	PONTOONS - CONNECTION PLATE DETAILS SHEET 1
400020	PONTOONS - CONNECTION PLATE DETAILS SHEET 2
400021	PONTOONS - PILE GUIDE DETAILS
400022	PONTOONS - FURNITURE DETAILS
400023	PONTOONS - LANDING AND RAMP DETAILS SHEET 1
400024	PONTOONS - LANDING AND RAMP DETAILS SHEET 2
400025	PONTOONS - LANDING AND RAMP DETAILS SHEET 3
400026	PONTOONS - ROOF STRUCTURE GENERAL ARRANGEMENT
400027	PONTOON 1 - ROOF FRAMING PLAN & SECTIONS
400028	PONTOON 2 - ROOF FRAMING PLAN & SECTIONS
400029	PONTOON 3 - ROOF FRAMING PLAN & SECTIONS
400030	PONTOONS - ROOF FRAMING DETAILS
400031	PONTOONS - BALLAST LAYOUT AND DETAILS
400032	GANGWAY - PLAN AND SECTIONS
400033	GANGWAY - DETAILS SHEET 1
400034	GANGWAY - DETAILS SHEET 2
400035	GANGWAY - DETAILS SHEET 3
400036	ELEVATED WALKWAY - GENERAL ARRANGEMENT
400037	ELEVATED WALKWAY - DETAILS SHEET 1
400038	ELEVATED WALKWAY - DETAILS SHEET 2
400039	ELEVATED WALKWAY - DETAILS SHEET 3
400040	ELEVATED WALKWAY - DETAILS SHEET 4
400041	TRAFFIC RAIL - DETAILS SHEET 1
400042	TRAFFIC RAIL - DETAILS SHEET 2
400043	GANTRY - ELEVATION AND DETAILS
400044	WALKWAY PIER - DETAILS



<p>AECOM CONSULTANT AECOM Australia Pty Ltd A.B.N. 20 003 846 925 www.aecom.com</p>	<p>PROJECT RG Tanna Marine Operations Terminal GLADSTONE</p>	<p>CLIENT Santos GLNG A GLNG member</p>	<p>CERTIFICATION DISCIPLINE: MARINE AUTHORITY: T.P.M.A. LURET: T.P.M.A. PREP. NO.: 224</p>	<p>PROJECT MANAGEMENT INITIALS</p> <table border="1"> <tr><td>NO.</td><td>BY</td><td>NO.</td></tr> <tr><td>DESIGNER</td><td>CHECKED</td><td>APPROVED</td></tr> </table>	NO.	BY	NO.	DESIGNER	CHECKED	APPROVED	<p>PROJECT DATA</p> <table border="1"> <tr><td>DATE</td><td>24/01</td><td>SURVEY</td><td>16/03/08</td></tr> </table>	DATE	24/01	SURVEY	16/03/08	<p>ISSUE/REVISION</p> <table border="1"> <tr><th>ID</th><th>DATE</th><th>DESCRIPTION</th></tr> <tr><td>0</td><td>20/04/18</td><td>ISSUED FOR CONSTRUCTION</td></tr> </table>	ID	DATE	DESCRIPTION	0	20/04/18	ISSUED FOR CONSTRUCTION	<p>PROJECT NUMBER 90323818</p> <p>SHEET TITLE FERRY FACILITY SITE PLAN & DRAWING LIST</p> <p>SHEET NUMBER 400000</p> <p>REVISION 0</p>
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DESIGNER	CHECKED	APPROVED																					
DATE	24/01	SURVEY	16/03/08																				
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<p>Issued by: R0584112011844-031 LHM (Rev. 20/04/18) C:\CDS\3 WORK\MARIN\3502291818-SHT-400000.DWG</p>																							



PROPOSED SEABED LEASE BOUNDARY SETOUT CO-ORDINATES

POINT	EASTING (m)	NORTHING (m)
A	320798.88	726418.78
B	320823.22	726423.21
C	320848.66	726428.64
D	320874.10	726434.07
E	320900.54	726439.50
F	320926.98	726444.93
G	320953.42	726450.36
H	320979.86	726455.79
I	321006.30	726461.22
J	321032.74	726466.65

MARINE WORK BOUNDARY

POINT	EASTING (m)	NORTHING (m)
A	320798.88	726418.78
1	320823.22	726423.21
2	320848.66	726428.64
3	320874.10	726434.07

SITE BOUNDARY PLAN
Scale 1:500

PROJECT
RG Tanna Marine Operations Terminal
GLASTONE

CLIENT
Santos GLNG
QGC
a BHP Group business

CERTIFICATION

DISCIPLINE	CERTIFIER	RFCD No.
MARITIME	T.J. JUBA	2-18

PROJECT DATA

DATE	20/04/18	ABLED FOR CONSTRUCTION
ISSUE	DATE	DESCRIPTION
0	20/04/18	ABLED FOR CONSTRUCTION

PROJECT MANAGEMENT INITIALS

AS	TR	NO
DESIGNER	CHECKED	APPROVED

ISSUE/REVISION

PROJECT NUMBER	90323816
SHEET TITLE	FERRY FACILITY SITE BOUNDARY PLAN
SHEET NUMBER	400001
REVISION	0

GENERAL

- THESE DRAWINGS SHALL BE READ IN CONJUNCTION WITH ALL OTHER RELEVANT DRAWINGS AND SPECIFICATIONS, AND WITH SUCH WRITTEN INSTRUCTIONS AS MAY BE ISSUED DURING THE COURSE OF THE CONTRACT BY THE SUPERINTENDENT.
- ALL DISCREPANCIES SHALL BE REFERRED TO THE SUPERINTENDENT FOR RESOLUTION BEFORE PROCEEDING.
- DURING CONSTRUCTION THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING THE WORKS INCLUDING ADJACENT STRUCTURES IN A STABLE CONDITION AND TO PROVIDE PROTECTIVE MEASURES TO PREVENT COLLAPSE OF ADJACENT STRUCTURES. ALL LEVELS ARE IN METRES RELATIVE TO LOWEST ASTRONOMICAL TIDE (LAT).
- LEVEL DATUM ORIGIN PN 75323 IS 401.102 (M.S.L.).
- ALL COORDINATES ARE IN METRES AND TO UTM ZONE 50.
- ORIGIN PN 75323 IS 401.102 (M.S.L.).
- PRIOR TO COMMENCEMENT OF ANY SITE WORKS, THE CONTRACTOR SHALL FAMILIARISE THEMSELVES WITH THE EXISTING INFRASTRUCTURE INCLUDING SERVICES, AND SHALL MAKE THEMSELVES AWARE OF ANY DOUBT WHAT INFRASTRUCTURE IS TO BE DEMOLISHED, RETAINED AND RELOCATED.
- ALL DIMENSIONS RELATING TO EXISTING WORK, GROUND AND SEALED LEVELS, OR ITEMS SUPPLIED BY OTHERS, SHALL BE VERIFIED ON SITE BY THE CONTRACTOR PRIOR TO COMMENCEMENT OF ANY FABRICATION AND ERECTION WORKS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THEIR CORRECTNESS.
- ALL PROPRIETARY ITEMS SHALL BE INSTALLED STRICTLY IN ACCORDANCE WITH THE MANUFACTURER'S / SUPPLIER'S INSTRUCTIONS.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR TEMPORARY SITE DRAINAGE AND GENERAL MAINTENANCE OF THE AREA DURING CONSTRUCTION.
- THE CONTRACTOR SHALL INFORM THE SUPERINTENDENT TO INSPECT ALL EXCAVATIONS PRIOR TO ANY BACK FILLING OR CONCRETE POUR.
- PROPRIETARY PRODUCTS HAVE BEEN USED ONLY TO ESTABLISH A BASIC REQUIREMENT AND ANY SATISFACTORY EQUIVALENT MAY BE SUBMITTED FOR REVIEW.

DESIGN LOADS

- LARGEST DESIGN VESSEL: LOA = 36m, BEAM = 11m, DRAFT = 1.3m, GROSS REGISTERED TONNAGE = 60 TONNE.
- DESIGN BERTHING SPEED: 0.5m/s FOR CRUISING, 4.5m/s FOR ELEVATED WALKWAY.
- DESIGN LIVE LOAD: FOR PONTOON AND GANGWAY: 4kPa, 4.5m FOR GANGWAY; 4kPa, 4.5m FOR PONTOON. STRUCTURAL: 3kPa, 4.5m FLOTATION: 3kPa STABILITY: 2kPa
- DESIGN WIND: REGION C, TERRAIN CATEGORY 2 (VESSELS TO VACATE BERTH WHEN WIND GUST SPEED EXCEEDS $V_g = 27m/s$)

STEEL WORK

- ALL STEELWORK SHALL CONFORM TO AS 4100, STEEL STRUCTURES.
- STEEL GRADES: 350MPa UNO RH50HS; 350, CHS; 350, PLATES; 350, WC; 400, PILES; 350 UNO.
- FABRICATION SHALL BE CARRIED OUT BY WELDERS WHO ARE QUALIFIED IN ACCORDANCE WITH THE REQUIREMENTS OF AS/NZS 1554.1.
- THE BOLTING PROCEDURE ADOPTED UNO IS 8.8S IN ACCORDANCE WITH THE AUSTRALIAN INSTITUTE OF STEEL CONSTRUCTION - MANUAL OF STANDARDISED STRUCTURAL CONNECTIONS.
- BOLTS OR FASTENERS SHALL BE MARKED WITH THE MANUFACTURER'S BRAND AND TO THE FOLLOWING: - BOLTS DENOTED 4.6/8 ARE CONNECTION BOLTS OF STEEL GRADE 4.6 TO AS 1111 - SNUG TIGHT. - BOLTS DENOTED 8.8/8, 8.8/8, OR 8.8/8 ARE HIGH STRENGTH STRUCTURAL BOLTS OF STEEL GRADE 8.8 TO AS 1282.
- ALL BOLTS SHALL BE M20 8.8S UNO.
- GRADE 8.8 BOLTS SHALL NOT BE WELDED, INCLUDING TACK WELDS FOR CAGING.
- PLATES IN STRUCTURAL STEEL CONNECTIONS SHALL BE 10mm THICK UNO.
- MINIMUM CONNECTIONS SHALL BE 10PL, M20 8.8S BOLTS UNO.
- ALL BOLTS (INCLUDING MASONRY ANCHORS) SHALL BE HOT DIPPED GALVANISED UNO.
- ALL HOLDING DOWN BOLTS SHALL BE GALVANISED AND PASSIVATED IN 0.2% SODIUM DICHROMATE SOLUTION UNO.
- ALL WELDS SHALL BE 6 CFW UNO.
- ALL WELDS SHALL BE CATEGORY GP AS SPECIFIED IN AS 1554, UNO.
- ELECTRODES SHALL BE E41XX UNO.
- SURFACE TREATMENT AFTER CLEANING - REFER TO SPECIFICATION.
- SHOP DRAWINGS SHALL BE SUBMITTED BEFORE COMMENCEMENT OF FABRICATION. GRADE OF SANDBLASTING, PAINT BRAND, TYPE, FILM THICKNESS AND WELD CATEGORY SHALL BE NOTED ON THESE SHOP DRAWINGS.
- ALL FINISHES AND ANCHORS SHALL BE CAST-IN TO CONCRETE UNO.
- ALL HOLLOW SECTIONS CHS, SHS & RHS SHALL BE WELDED WITH 6mm COVER END PLATE UNO.

STAINLESS STEEL

- WHERE STAINLESS STEEL HAS BEEN CALLED UP ON THE DRAWING, THE STAINLESS STEEL SHALL COMPLY WITH THE FOLLOWING:
- ALL STAINLESS STEEL (SS) SHALL BE GRADE 316 OR 316L UNO.
 - ALL STAINLESS STEEL BOLTS SHALL BE GRADE A4-70.
 - ALL WELDS SHALL BE 6 CFW UNO.
 - WELDING OF STAINLESS STEEL INCLUDING CLEANING, PICKLING, AND PASSIVATION, SHALL COMPLY WITH AWRA 16 TECHNICAL NOTE - WELDING OF STAINLESS STEEL - DECEMBER 1986.
 - WHERE SS FIXINGS ARE SECURING GALVANISED OR PAINTED STEEL COMPONENTS, AN APPROVED ISOLATION NYLON WASHER SHALL BE USED TO ENSURE NO CONTACT OCCURS BETWEEN DISSIMILAR METALS.

ALUMINIUM

- WHERE ALUMINIUM HAS BEEN CALLED UP ON THE DRAWING, THE ALUMINIUM SHALL COMPLY WITH THE FOLLOWING:
- ALL WORKMANSHIP AND MATERIALS SHALL BE IN ACCORDANCE WITH AS/NZS 1554.
 - ALL EXTRUDED ALUMINIUM SECTIONS SHALL COMPLY WITH AS/NZS 1554 - ALLOY 6061-T6, 6061-T5, 6061-T5, 6061-T5, 6061-T5 OR 6061-T5.
 - ALL ALUMINIUM PLATE SHALL COMPLY WITH AS/NZS 1554 - ALLOY 5083-H112.
 - ALL ALUMINIUM COMPONENTS SHALL BE FREE FROM EXCESSIVE TOOLMARKS, BURRS AND OTHER MANUFACTURING DEFECTS.
 - ALL WELDING SHALL BE IN ACCORDANCE WITH AS/NZS 1554, WELD QUALITY TO CATEGORY A.
 - ALL WELDING CONSUMABLES TO BE E5356 UNO TO AS/NZS ISO 18273.
 - ALL WELDING SHALL BE CARRIED OUT USING ARGON GAS SHIELDING.
 - ALL WELDS SHALL BE 6 CFW.
 - ALL WORK SHALL BE NEATLY FINISHED WITH ALL SHARP EDGES GROUND SMOOTH.
 - ALUMINIUM COMPONENTS SHALL BE CLEANED AND WELDING SLAG REMOVED.
 - IN BOLTED JOINTS, CONTACT FACES OF ALUMINIUM AND THREADS OF BOLTS AND NUTS SHALL BE COATED WITH "DENSOL" MULTI-PURPOSE PRIMER GREASE OR APPROVED EQUIVALENT AT ASSEMBLY. PROVIDE NYLON SEPARATOR BETWEEN STAINLESS STEEL BOLTS AND ALUMINIUM.

PILE DRIVING

- ALL PILES SHALL BE HANDLED, PITCHED AND DRIVEN IN ACCORDANCE WITH THE SPECIFICATIONS & DRAWINGS.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY AND ALL REINFORCEMENT TO THE PILES DEEMED NECESSARY TO RESIST DRIVING FORCES OR GROUND CONDITIONS.
- THE CONTRACTOR SHALL MAINTAIN A COMPLETE DRIVING RECORD OF ALL PILES. DRIVING RECORDS SHALL BE SUBMITTED IN ACCORDANCE WITH THE SPECIFICATIONS.
- UNLESS NOTED OTHERWISE, PILES SHALL BE ROLLED OR FORMED FROM STEEL WITH A MINIMUM GUARANTEED YIELD STRENGTH OF 350MPa. STEEL COMPOSITION SHALL CONFORM TO THE REQUIREMENTS OF AS/NZS 3678 OR AS EITHER SPHRAL OR LONGITUDINALLY SEAM WELDED STEEL.
- CONCRETE WELDED SEAMS IN STEEL PILE SECTION SHALL BE EVENLY SPACED AND WELDED TO FORM THE COMPLETE PILE PITCHING LENGTH. WHERE IT IS NECESSARY TO JOIN PILES TOGETHER, THE SEAMS TO MEET OUT THE STRAIGHTNESS TOLERANCES FOR THE LENGTH SHALL BE STAGGERED BY AT LEAST 100mm AROUND THE PILE CIRCUMFERENCE.
- THE CONTRACTOR SHALL FABRICATE AND SPLICE THE ENDS TO SUIT THE PILING EQUIPMENT.
- ALL WELDING SHALL BE CATEGORY SP IN ACCORDANCE WITH AS/NZS 1554 PART 1, 2004 "WELDING OF STEEL STRUCTURES".
- WELD TESTING OF PILES SHALL BE IN ACCORDANCE WITH THE SPECIFICATIONS.
- SUPPLIED PILE LENGTH MAY NOT INCLUDE ALLOWANCE FOR DAMAGE DUE TO PILE DRIVING.
- PILES SHALL BE INSTALLED TO THE FOLLOWING TOLERANCES:
 - PLAN POSITION AFTER INSTALLATION: ±100mm AT MEAN SEA LEVEL.
 - DEVIATION FROM VERTICAL: 1:150
- ALL PILES SHALL BE INSTALLED AND FINALLY DRIVEN TO THE EMBEDMENT SHOWN ON THE DRAWINGS.
- REFER TO SPECIFICATION FOR INFORMATION OF TIMBER PILES.

LEGEND TO DATUMS

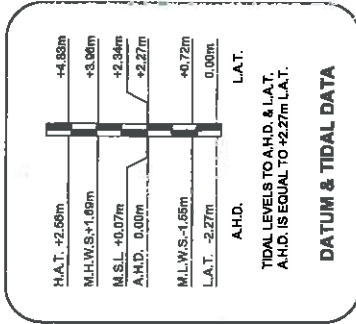
- HAT HIGHEST ASTRONOMICAL TIDE
M.H.W.S. MEAN HIGH WATER SPRING
M.S.L. MEAN SEA LEVEL
M.B.L. AUSTRALIAN HEIGHT DATUM
M.L.W.S. MEAN LOW WATER SPRING
LAT LOWEST ASTRONOMICAL TIDE

LEGEND TO ABBREVIATIONS

- CFW CONTINUOUS FILLET WELD
LOA LENGTH OVER ALL
UNO UNLESS NOTED OTHERWISE
SS STAINLESS STEEL
TBC TO BE CONFIRMED
TGS1 TACTILE GROUND SURFACE INDICATOR
CRS CENTRES

MATERIALS SCHEDULE

COMPONENT	MATERIAL
PONTOON	STEEL
PONTOON FENDER SUPPORTS	STEEL
ELEVATED WALKWAY	ALUMINIUM
GANGWAY	ALUMINIUM
PONTOON ROOF FRAME	ALUMINIUM
POOP CLADDING AND PURLINS	STEEL
PLATFORM AND RAMP	ALUMINIUM
GANGWAY LIFTING GANTRY	STEEL



CLIENT
 RG Tanna Marine Operations Terminal
 GUNSTON

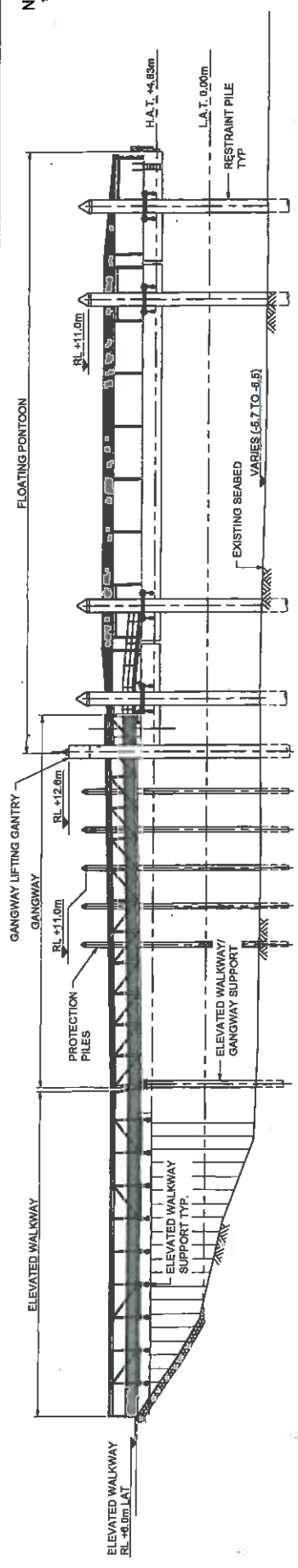
PROJECT
 RG Tanna Marine Operations Terminal
 GUNSTON

CERTIFICATION
 DISCIPLINE: MARITIME
 CHECKED: T.P.M./Z
 APPROVED:

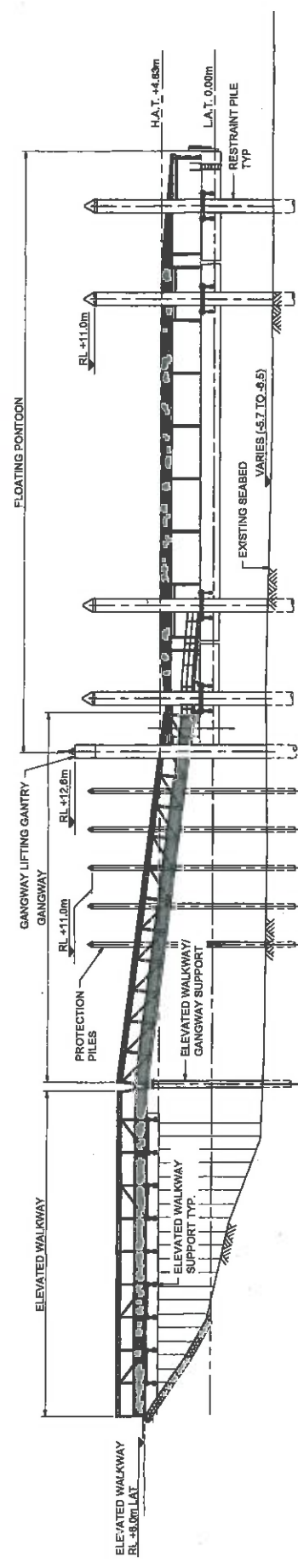
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 SHEET TITLE: PERRY FACILITY GENERAL NOTES
 SHEET NUMBER: 400002

DATE: 20.10.16
 DESCRIPTION:

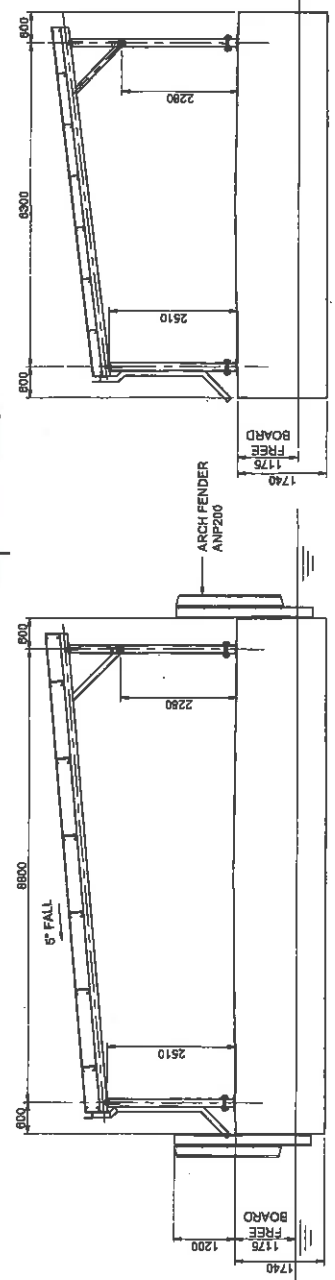
NOTES
1. FOR GENERAL NOTES REFER DRG 400002



A VIEW (A.T.H.A.L.)
SCALE 1:200



A VIEW (A.T.H.A.L.)
SCALE 1:200



C SECTION
SCALE 1:50
TYPICAL SECTION
PONTOON 2

B ELEVATION
SCALE 1:50
TYPICAL SECTION
PONTOONS 1 AND 3



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Santos
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QGC
A 100 Group Limited

PROJECT
RG Tanna Marine
Operations Terminal
GLABSTONE

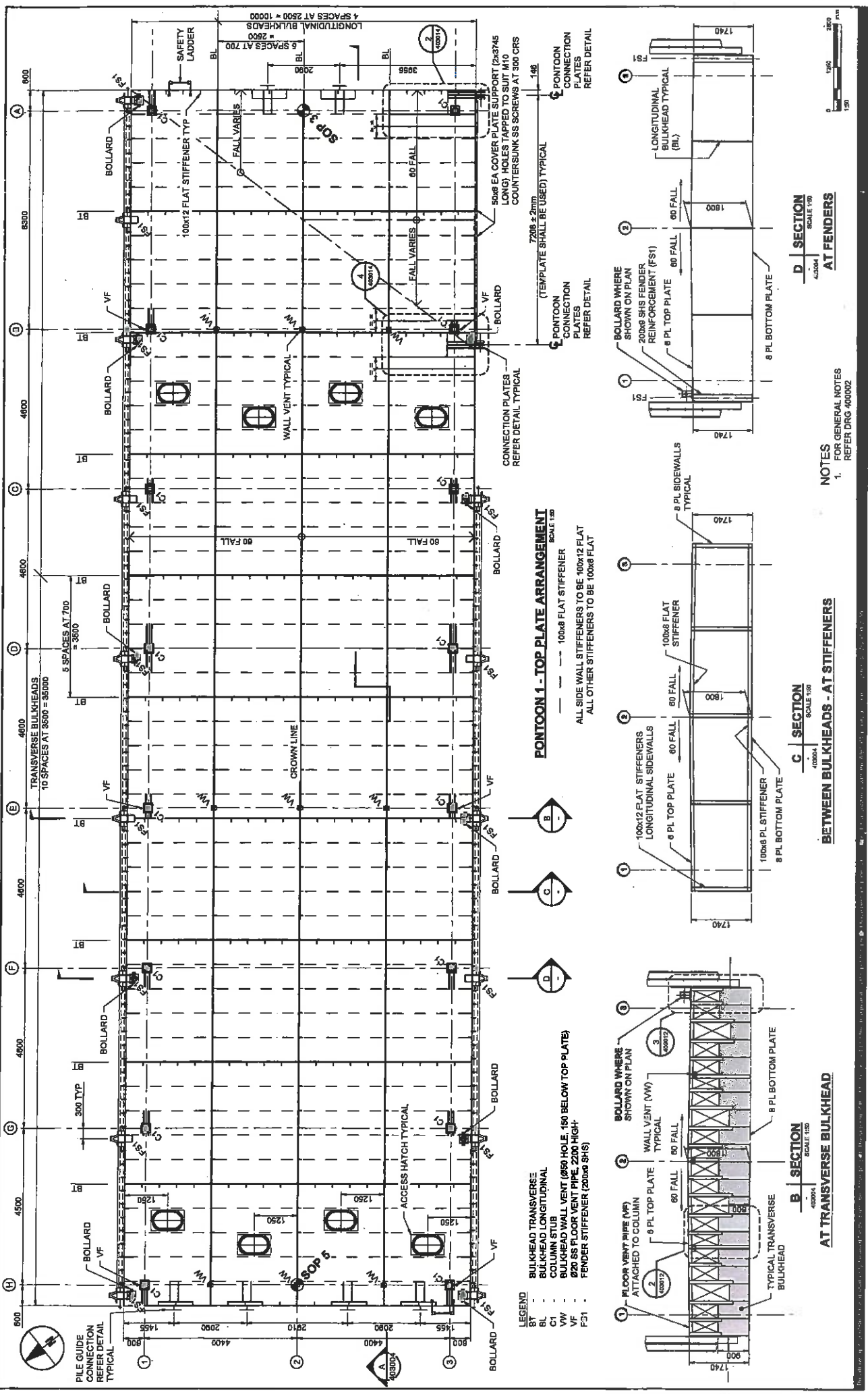
CLIENT

CERTIFICATION
DISCIPLINE MARITIME
SCHEDULE 1
DATE 17/01/2018
DESIGNER
CHECKED
APPROVED

PROJECT DATA
DATE 17/01/2018
SURVEY NO. 18

ISSUE/REVISION
NO. 0
DATE 17/01/2018
DESCRIPTION ISSUED FOR CONSTRUCTION

PROJECT NUMBER 00328119
SHEET TITLE FERRY FACILITY GENERAL ARRANGEMENT ELEVATIONS AND SECTIONS
SHEET NUMBER 400004
REVISION 0

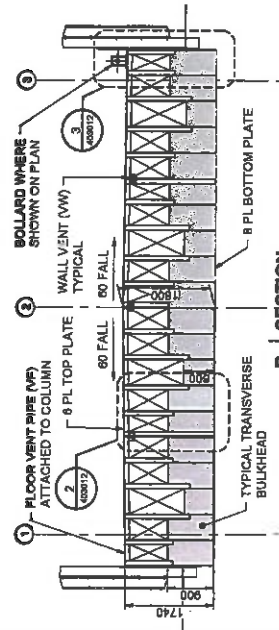


- LEGEND**
- BT - BULKHEAD TRANSVERSE
 - BL - BULKHEAD LONGITUDINAL
 - CW - COLUMN STUB
 - WF - BULKHEAD WALL VENT (200 HOLE, 150 BELOW TOP PLATE)
 - VF - FENDER STIFFENER (200x8 SHS)
 - FS1 - FENDER STIFFENER (200x8 SHS)

PONTOON 1 - TOP PLATE ARRANGEMENT
SCALE 1:50

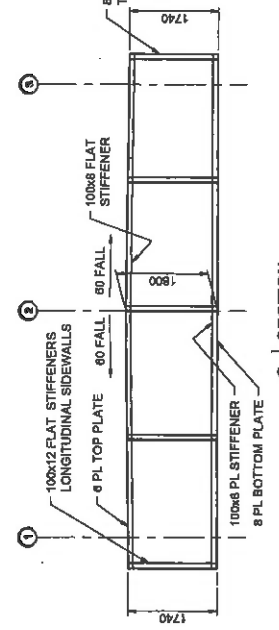
ALL SIDE WALL STIFFENERS TO BE 100x12 FLAT
ALL OTHER STIFFENERS TO BE 100x8 FLAT

50x8 EA COVER PLATE SUPPORT (2x37x45 LONG) HOLES TAPPED TO SUIT M10 COUNTERSUNK SS SCREWS AT 300 CRS
7208 ± 2mm TYPICAL (TEMPLATE SHALL BE USED)
PANTOON CONNECTION PLATES REFER DETAIL



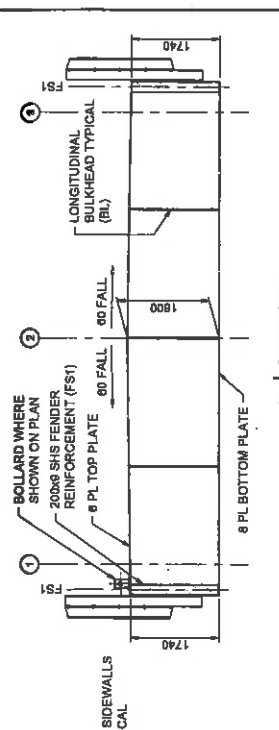
B SECTION
SCALE 1:50
4000x1

AT TRANSVERSE BULKHEAD



C SECTION
SCALE 1:50
1000x4

BETWEEN BULKHEADS - AT STIFFENERS



D SECTION
SCALE 1:50
4000x4

AT FENDERS

NOTES
FOR GENERAL NOTES
1. REFER DRG 400002

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PROJECT
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CLIENT
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CERTIFICATION
DISCIPLINE: MARITIME
CERTIFIER: T.P.O.
ISSUED FOR CONSTRUCTION

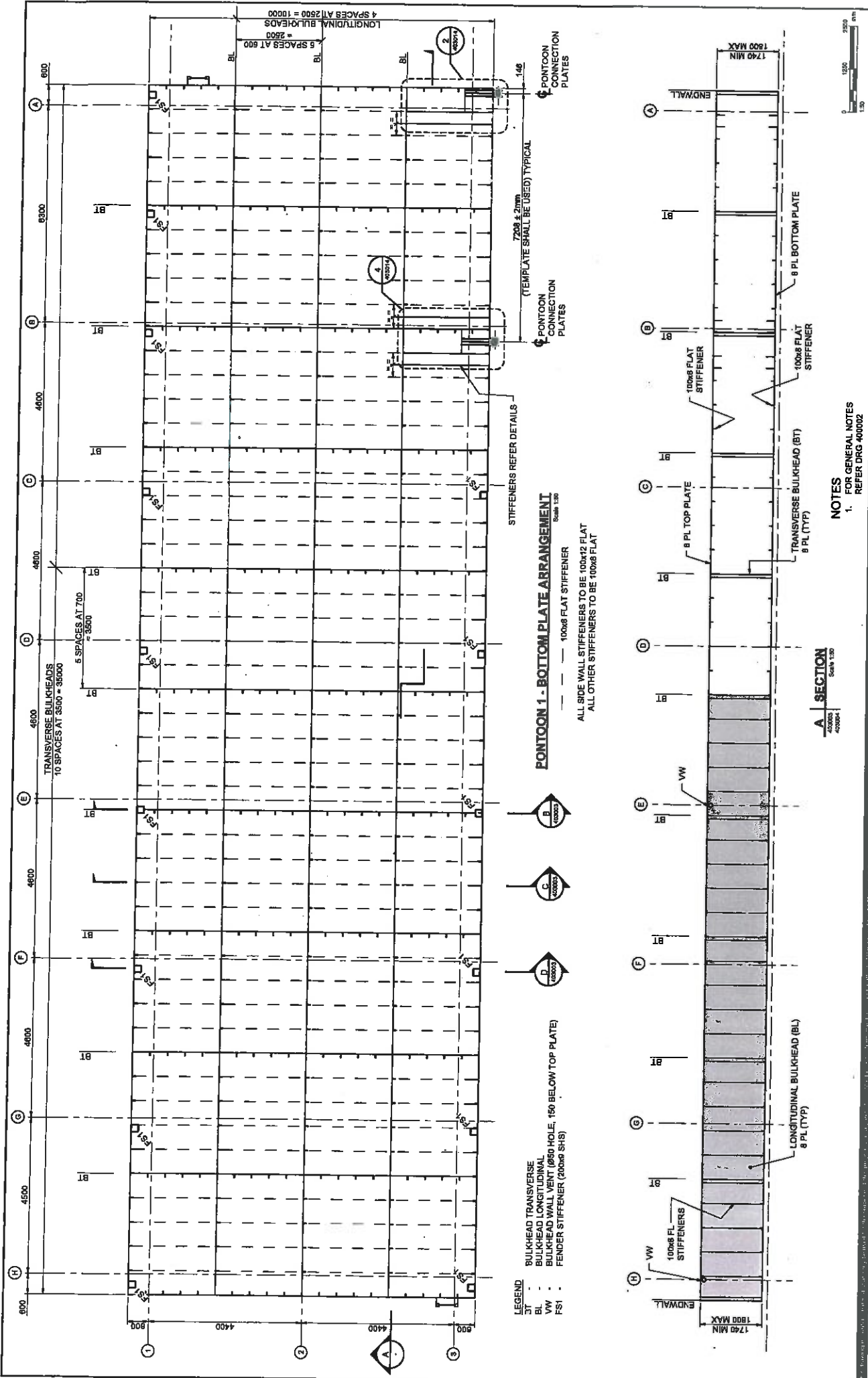
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DATE: SURVEY: 2014
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PROJECT MANAGEMENT INITIALS
DESIGNER: APPROVED
CHECKED: APPROVED

ISSUE/REVISION

PROJECT NUMBER 8032816
SHEET TITLE FERRY FACILITY
PONTOON 1
TOP PLATE ARRANGEMENT

SHEET NUMBER 403903



PONTON 1 - BOTTOM PLATE ARRANGEMENT
Scale 1:50

ALL SIDE WALL STIFFENERS TO BE 100x42 FLAT
ALL OTHER STIFFENERS TO BE 100x8 FLAT



LEGEND
BT - BULKHEAD TRANSVERSE
BL - BULKHEAD LONGITUDINAL
WBV - BULKHEAD WALL VENT (1000 HOLE, 150 BELOW TOP PLATE)
FSI - FENDER STIFFENER (20000 SHS)

A - SECTION
Scale 1:50

NOTES
1. REFER DRG 400002

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CLIENT
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PROJECT
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QGC
A Gulf Energy Partner

CERTIFICATION
DISCIPLINE: MARITIME
CERTIFIER: T. ZODIA
REVISED No.: 2203

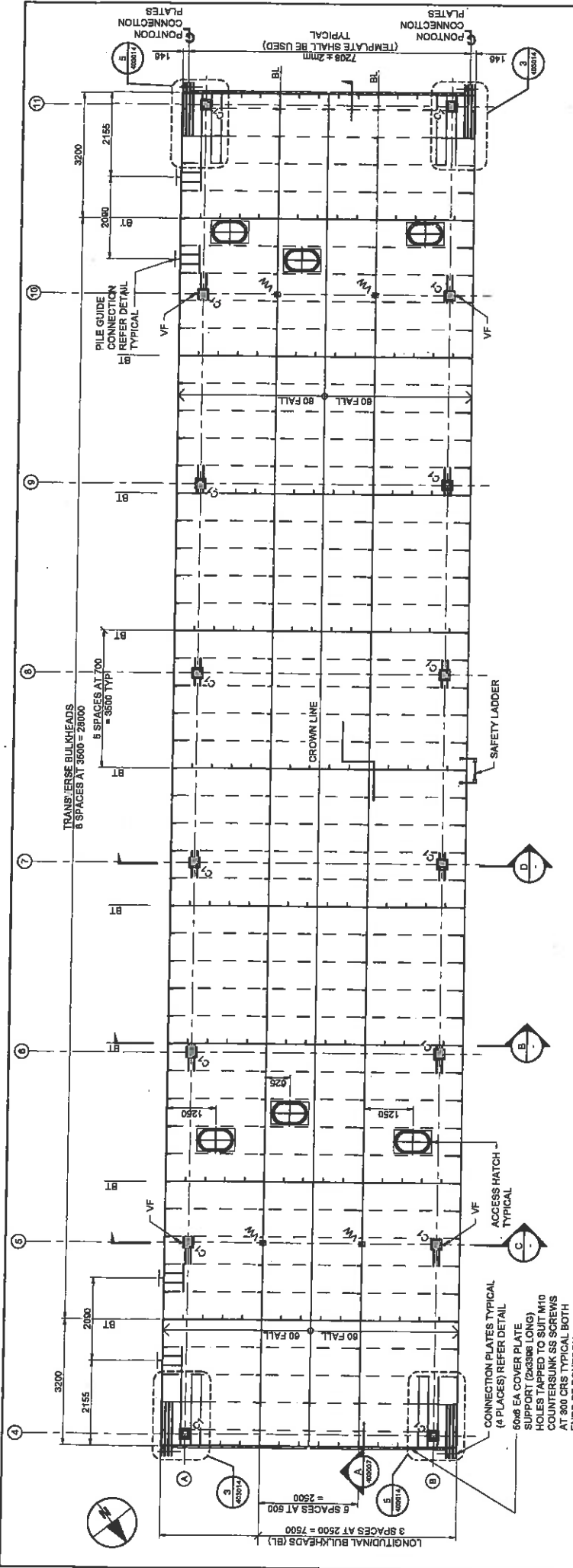
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SURVEY: MDA 10

PROJECT MANAGEMENT INITIALS
PT: [] TP: [] ND: []
DESIGNER: [] CHECKED: [] APPROVED: []

REVISION

NO.	DATE	DESCRIPTION
1		ISSUED FOR CONSTRUCTION

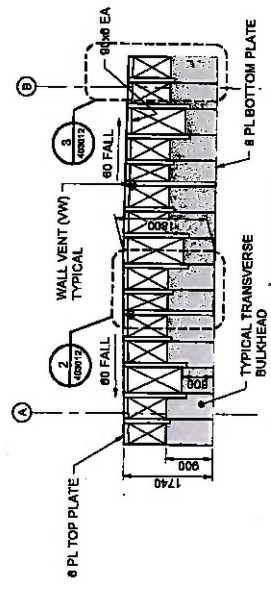
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SHEET TITLE: FERRY FACILITY PONTON 1
BOTTOM PLATE ARRANGEMENT
SHEET NUMBER: 403004
REVISION: 0



PONTOON 2 - TOP PLATE ARRANGEMENT
SCALE 1:80

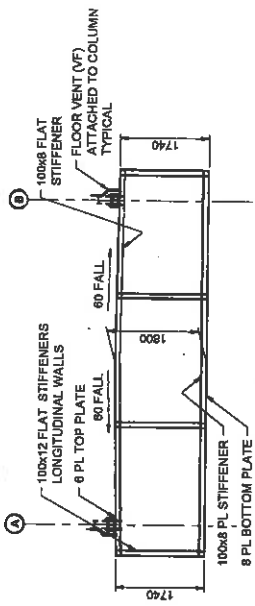
ALL SIDE WALL STIFFENERS TO BE 100x12 FLAT
ALL OTHER STIFFENERS TO BE 100x8 FLAT

- LEGEND**
- BULKHEAD TRANSVERSE
 - BT
 - BL
 - COLUMN STUB
 - C1
 - WALL VENT
 - WV
 - FLOOR VENT
 - VF



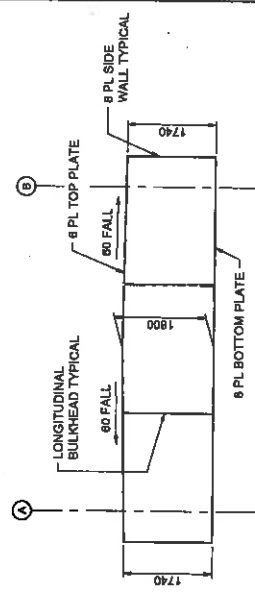
B ELEVATION
SCALE 1:50
40007

AT TRANSVERSE BULKHEAD



C ELEVATION
SCALE 1:50
40007

BETWEEN BULKHEADS - AT STIFFENERS



D ELEVATION
SCALE 1:50
40007

BETWEEN STIFFENERS

NOTES
1. FOR GENERAL NOTES REFER DRG 400002

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CLIENT
RG Tanna Marine Operations Terminal
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PROJECT
Santos GLNG

QGC
A BP Group business

REVISION

NO	DATE	DESCRIPTION
1	2024.10	ISSUED FOR CONSTRUCTION

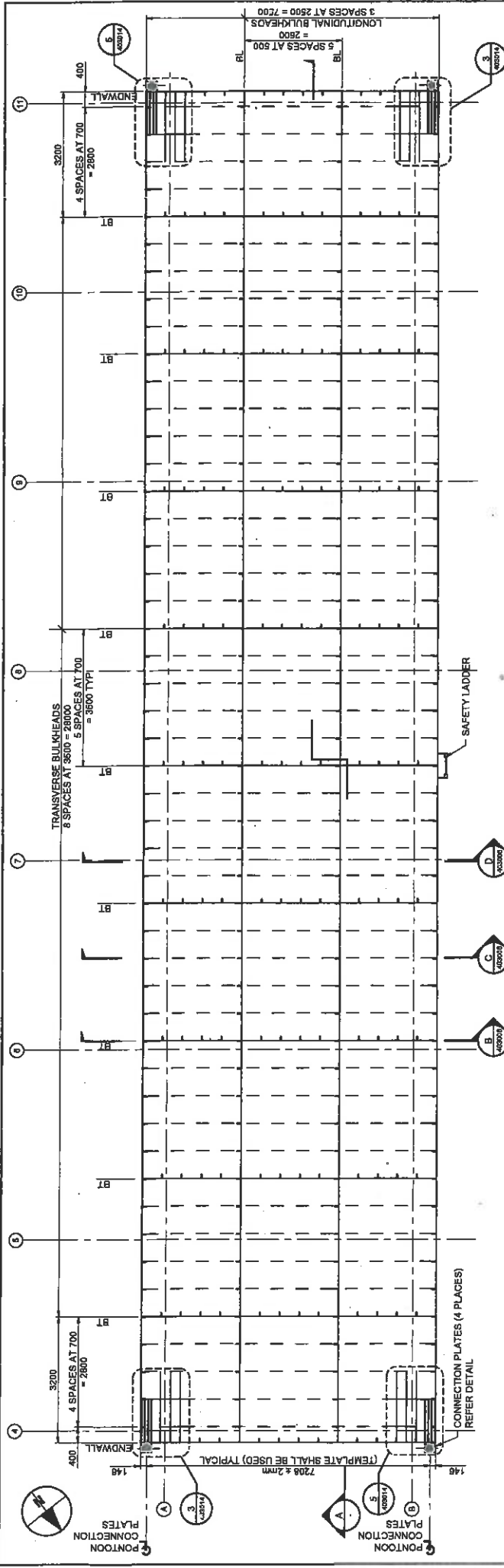
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DRAFTER: J.P./JWA
CHECKER: [blank]
DESIGNER: [blank]
DATE: [blank]
SURVEY: MCA 08

PROJECT MANAGEMENT INITIALS

PT	TP	NO	APPROVED
[blank]	[blank]	[blank]	[blank]

PROJECT NUMBER 60223818
SHEET TITLE FERRY FACILITY
PONTOON 2
TOP PLATE ARRANGEMENT

SHEET NUMBER 403006
REVISION

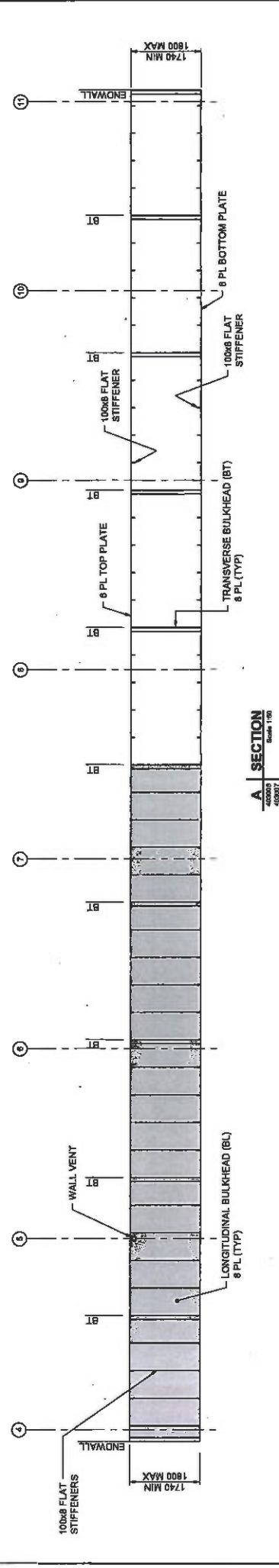


PONTOON 2 - BOTTOM PLATE ARRANGEMENT
Scale: 1:50

ALL SIDE WALL STIFFENERS TO BE 100x42 FLAT
ALL OTHER STIFFENERS TO BE 100x8 FLAT

LEGEND

— BULKHEAD TRANSVERSE
- - - BULKHEAD LONGITUDINAL

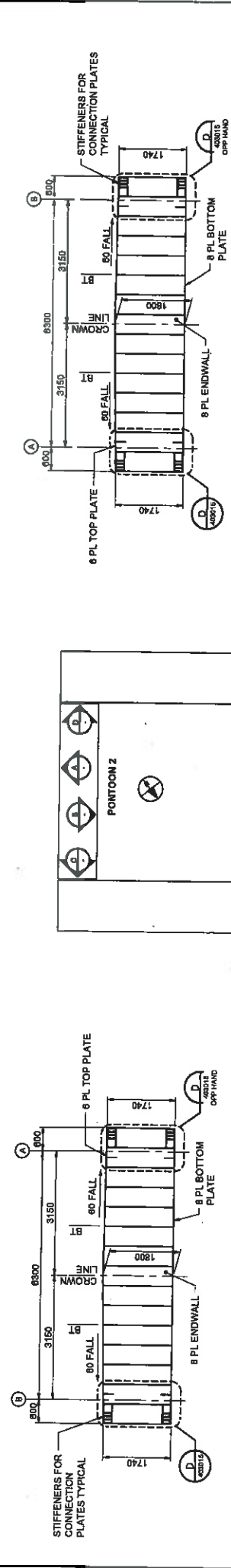
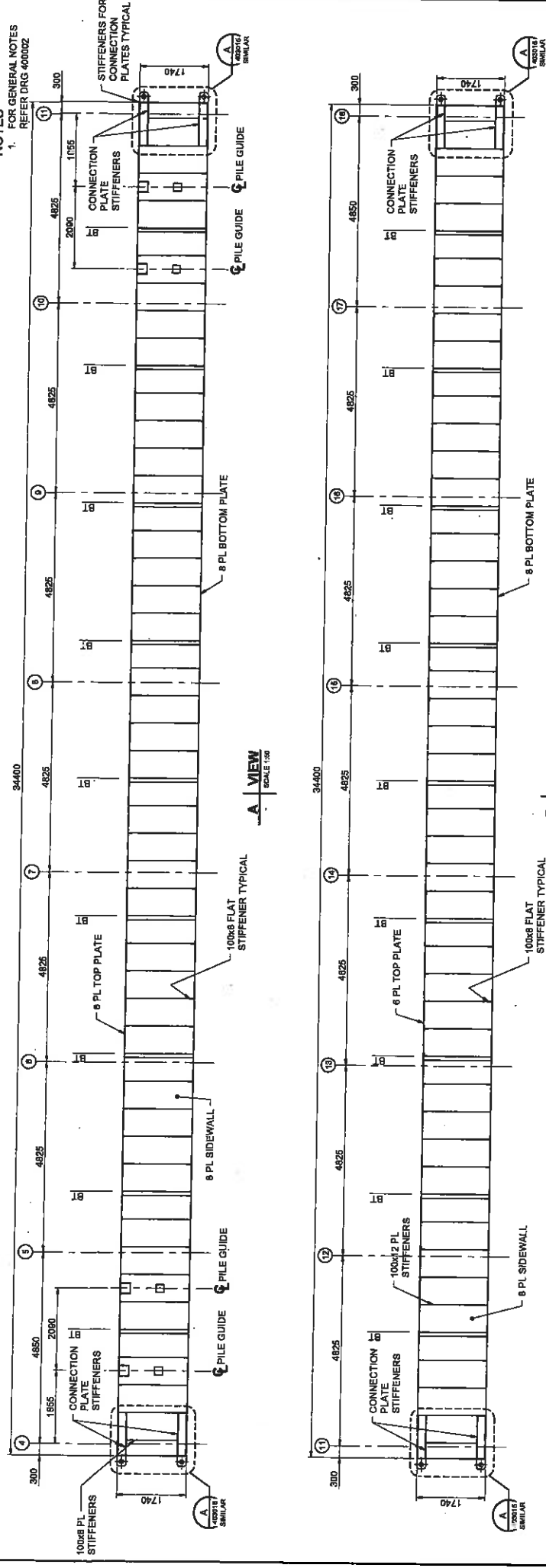


A | SECTION
Scale: 1:50

NOTES
1. FOR GENERAL NOTES REFER DRG 400002.

PROJECT		CLIENT		PROJECT MANAGEMENT INITIALS		REVISIONS	
RG Tanna Marine Operations Terminal		GLAUSTONE		PT	TP	ND	PROJECT NUMBER
AECOM CONSULTANT		Santos GLNG		DESIGNER	CHECKED	APPROVED	00323816
AECOM Australia Pty Ltd A.B.N. 20 006 548 026 www.aecom.com		GLNG		PROJECT DATA		SHEET TITLE	
				DATE	AID	SURVEY / MCA / IS	FERRY FACILITY
				OR	DATE	DESCRIPTION	PONTOON 2
							BOTTOM PLATE ARRANGEMENT
							SHEET NUMBER
							403007
							REVISION
							6

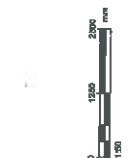
NOTES
 1. FOR GENERAL NOTES REFER DRG 400002



D VIEW
SCALE 1:50

B VIEW
SCALE 1:50

C VIEW
SCALE 1:50



KEY PLAN
NTS

PROJECT
 RG Tanna Marine Operations Terminal
 GLADSTONE

CLIENT
 Santos GLNG

CONSTRUCTION
 DISCIPLINE: MARITIME
 CERTIFIER: T.J.M.A.
 CHECKED: [Signature]
 APPROVED: [Signature]

CERTIFICATION
 PROJECT NUMBER: 6022818
 SHEET TITLE: PONTON 2 END AND SIDE PLATES
 PROJECT DATA:
 DATE: 20.04.18
 SURVEY: MDA 08
 ISSUE FOR CONSTRUCTION: [Signature]
 DATE: [Signature]
 DESCRIPTION: [Signature]

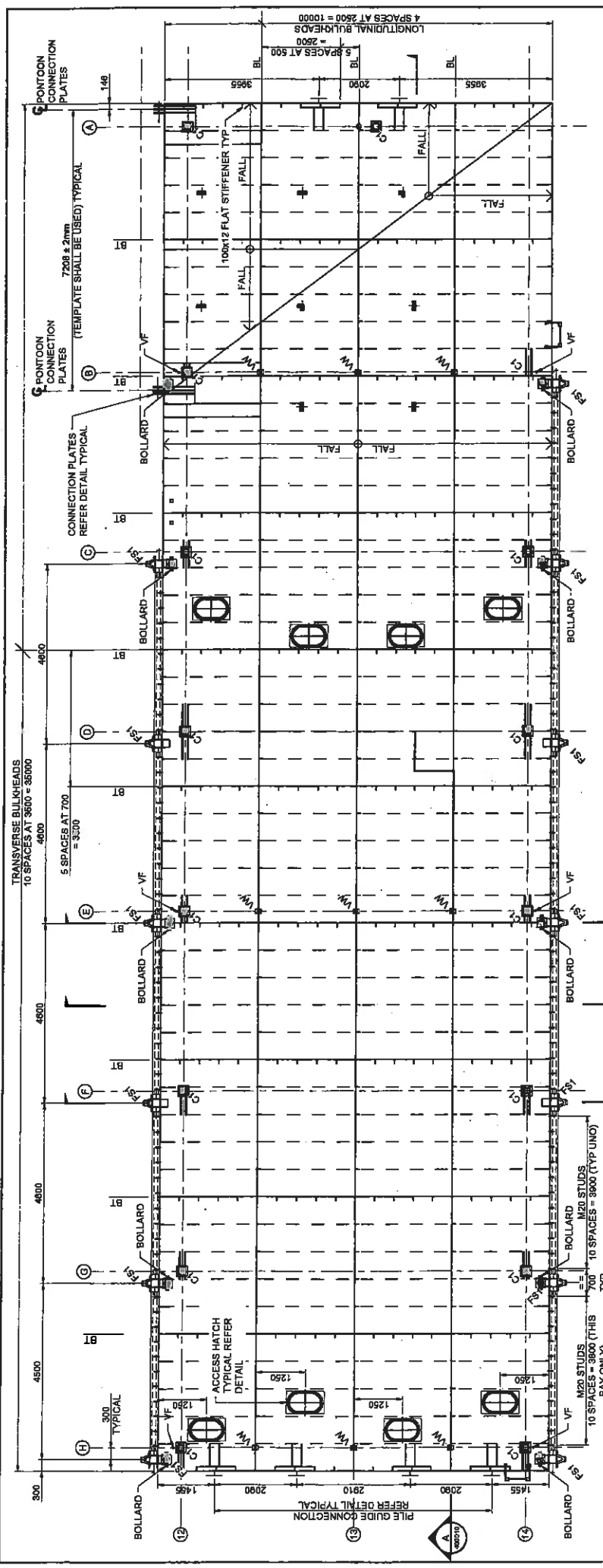
ISSUE/REVISION

PROJECT MANAGEMENT INITIALS
 PT: [Signature] MD: [Signature]
 DESENER: [Signature] APPROVED: [Signature]

CONTRACT
 PROJ No: 2233

CONTRACTOR
 AECOM Australia Pty Ltd
 A.B.N 20 063 448 925
 www.aecom.com

REVISION
 SHEET NUMBER: 403008
 REVISION: 0

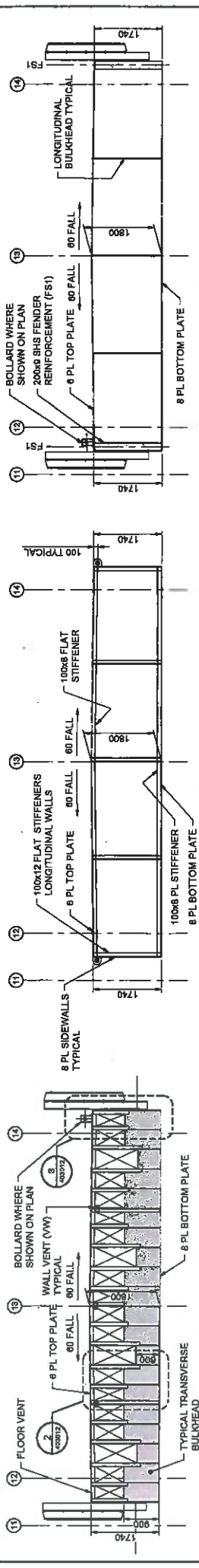


PONTON 3 - TOP PLATE ARRANGEMENT
SCALE: 1:50

ALL SIDE WALL STIFFENERS TO BE 100x12 FLAT
ALL OTHER STIFFENERS TO BE 100x8 FLAT

LEGEND

- BT - BULKHEAD TRANSVERSE
- BL - BULKHEAD LONGITUDINAL
- C1 - COLUMN STUD
- VW - BULKHEAD WALL VENT (Ø100 HOLE, 150 BELOW TOP PLATE)
- VF - M20 SS FLOOR VENT PIPE, 2200 HIGH
- FST - FENDER STIFFENER (200x9 SHS)



SECTION C
SCALE: 1:50

SECTION D
SCALE: 1:50

NOTES FOR GENERAL NOTES
1. REFER DRG 400002

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PROJECT
RG Tanna Marine Operations Terminal
GLADSTONE

CERTIFICATION

DISCIPLINE	CHECKER	ISSUED NO.	ISSUED DATE
MARINE	T. TONG	328	

PROJECT MANAGEMENT INITIALS

PT	TP	NO	APPROVED
DESIGNER	CHECKED		

PROJECT DATA

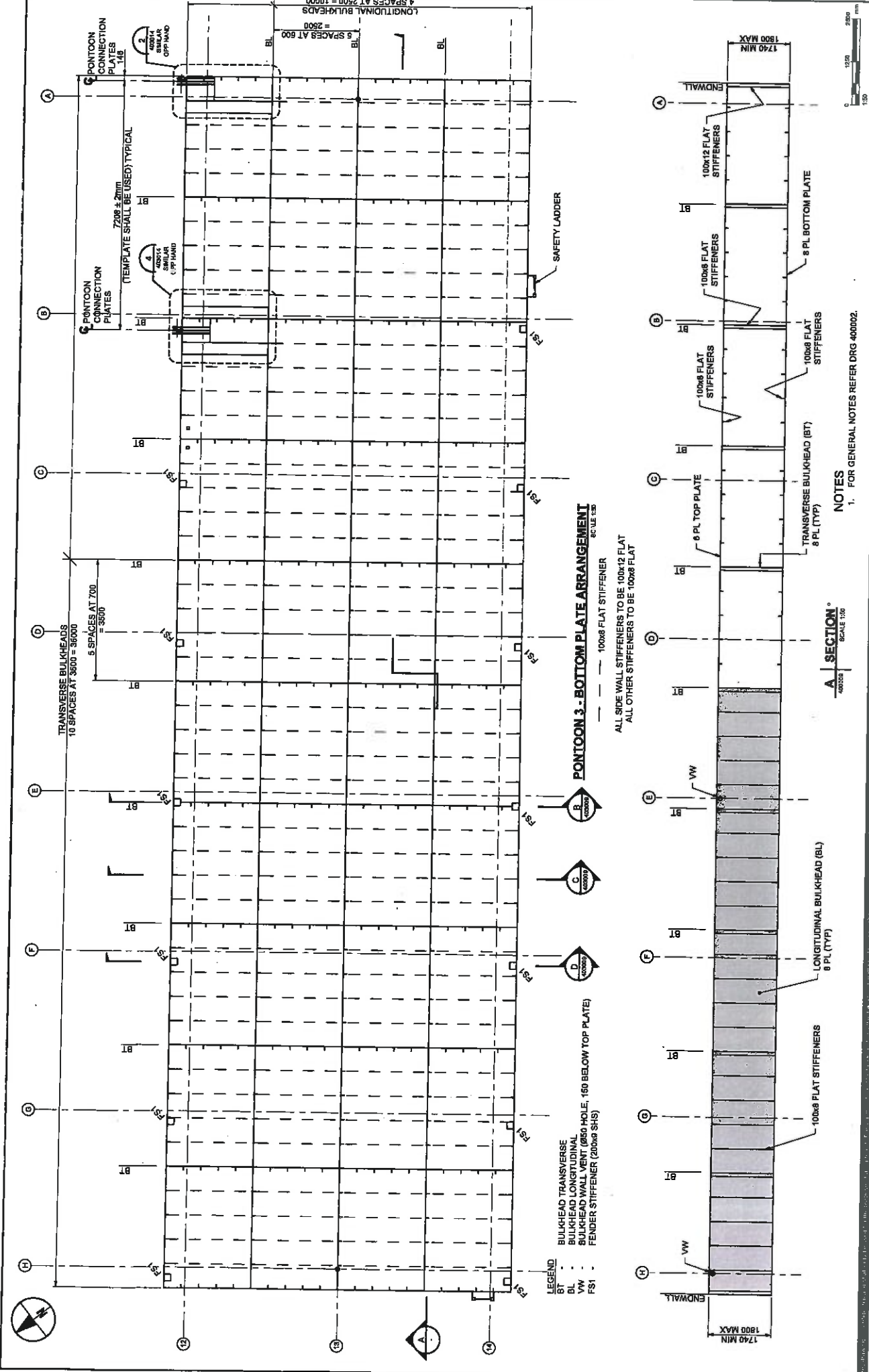
DATUM	NO	SURVEY	SCALE

ISSUE/REVISION

NO	DATE	DESCRIPTION

PROJECT NUMBER 0022818
SHEET TITLE FERRY FACILITY
PONTON 3
TOP PLATE ARRANGEMENT

SHEET NUMBER 405009
REVISION 0



PONTOON 3 - BOTTOM PLATE ARRANGEMENT
SCALE: 1:25

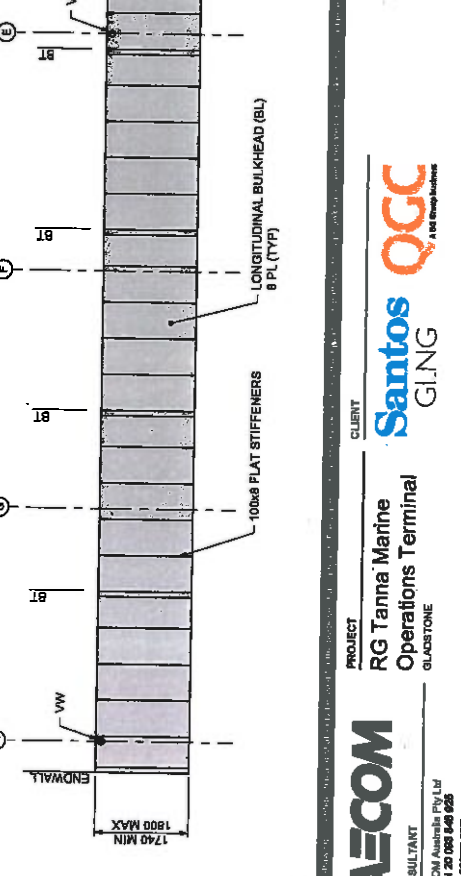
ALL SIDE WALL STIFFENERS TO BE 100x12 FLAT
ALL OTHER STIFFENERS TO BE 100x8 FLAT

TRANSVERSE BULKHEADS
10 SPACES AT 3600
5 SPACES AT 700

LONGITUDINAL BULKHEADS
4 SPACES AT 2500
5 SPACES AT 600

7208 ± 2mm
PONTON CONNECTION PLATES
(TEMPLATE SHALL BE USED) TYPICAL

SAFETY LADDER



TRANSVERSE BULKHEAD (BT)
100x8 FLAT STIFFENERS
8 PL (TYP)
100x8 FLAT STIFFENERS
8 PL BOTTOM PLATE

1740 MIN
1800 MAX

NOTES
1. FOR GENERAL NOTES REFER DRG 400002.

A SECTION
SCALE: 1:20

PROJECT
RG Tanna Marine Operations Terminal
GLACSTONE

CLIENT
Santos GING

CONSULTANT
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ALJN 20 058 546 625
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CERTIFICATION
DISCIPLINE: MARITIME
CERTIFIER: T. F. J. B. H. L.
DESIGN NO.: 2203

PROJECT MANAGEMENT INITIALS
PT: TO: NO: APPROVED:
ORDERER: CHECKED: APPROVED:

ISSUE/REVISION

NO	DATE	ISSUED FOR	DESCRIPTION
0	28.12.16	ISSUED FOR CONSTRUCTION	
1		DATE	DESCRIPTION

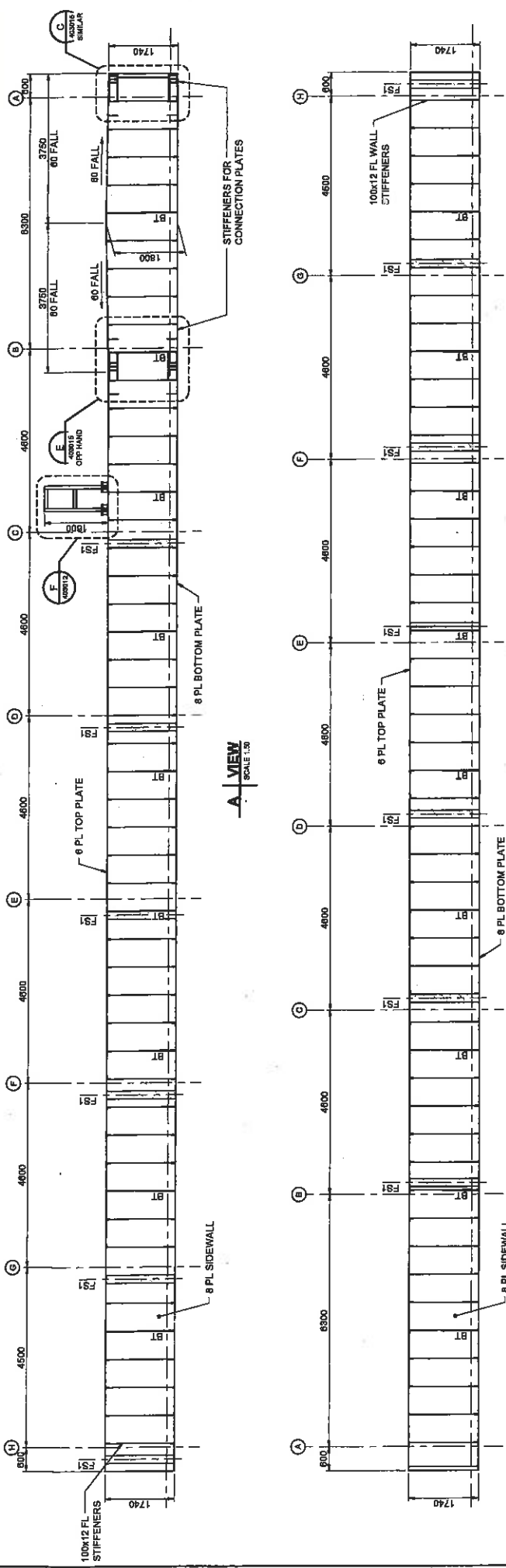
PROJECT NUMBER
00223818

SHEET TITLE
FERRY FACILITY
PONTOON 3
BOTTOM PLATE ARRANGEMENT

SHEET NUMBER
400010

REVISION
0

NOTES
1. FOR GENERAL NOTES REFER DRG 400602



LEGEND
 BULKHEAD TRANSVERSE
 BT - BUJ KHEAD LONGITUDINAL
 FL - FENDER STIFFENER

CERTIFICATION		PROJECT MANAGEMENT INITIALS		ISSUE/REVISION	
DESIGNER	CHECKED	BT	TP	NO	
DRAWN	APPROVED				
DATE					

PROJECT		CLIENT	
RG Tanna Marine Operations Terminal	GLAUSTONE		

PROJECT DATA	
PROJECT NUMBER	00223816
SHEET TITLE	FERRY FACILITY PONTON 3 END AND SIDE PLATES
ISSUED FOR CONSTRUCTION	0 28.04.18
DATE	
DESCRIPTION	

CERTIFICATION		PROJECT MANAGEMENT INITIALS		ISSUE/REVISION	
DESIGNER	CHECKED	BT	TP	NO	
DRAWN	APPROVED				
DATE					

PROJECT DATA	
PROJECT NUMBER	00223816
SHEET TITLE	FERRY FACILITY PONTON 3 END AND SIDE PLATES
ISSUED FOR CONSTRUCTION	0 28.04.18
DATE	
DESCRIPTION	

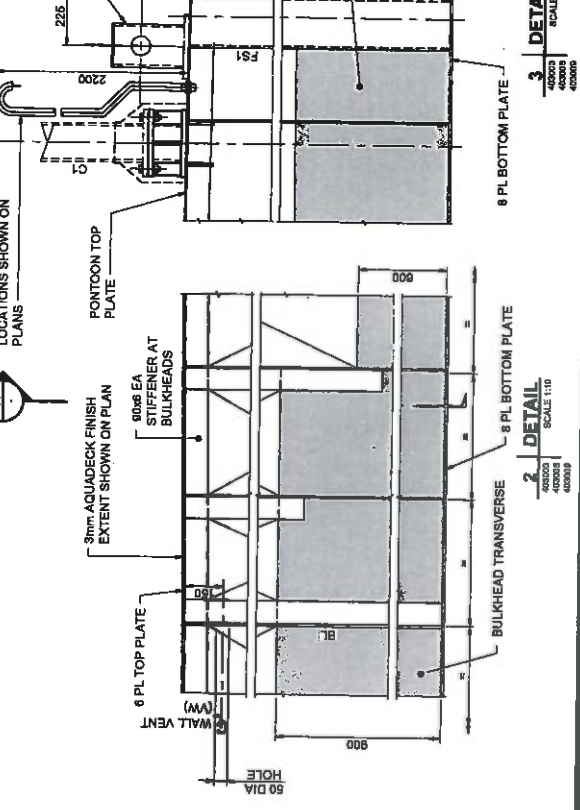
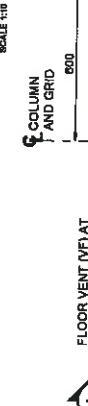
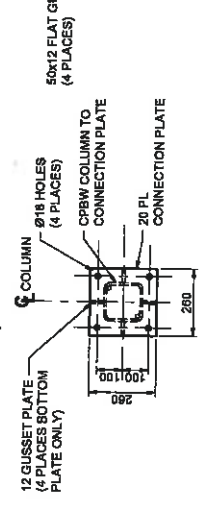
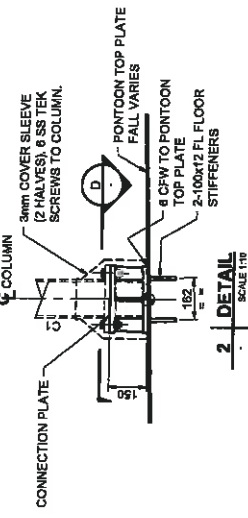
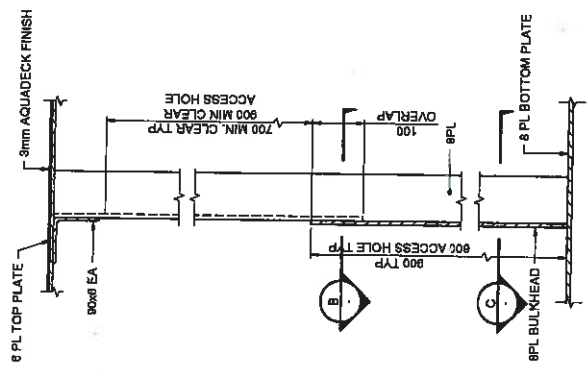
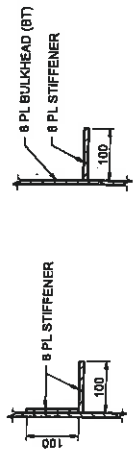
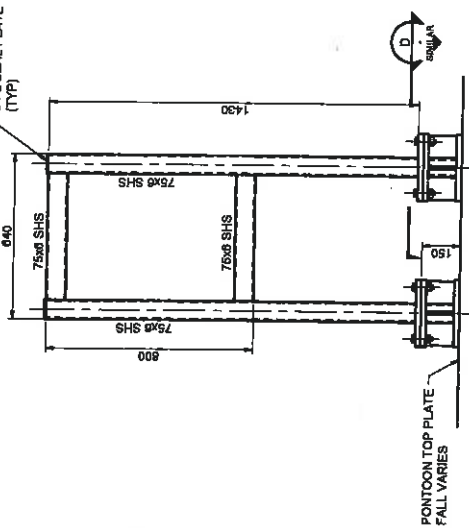
PROJECT		CLIENT	
RG Tanna Marine Operations Terminal	GLAUSTONE		

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GLING

QGC
200 West Wharf

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PROJECT NUMBER: 00223816
 SHEET TITLE: FERRY FACILITY PONTON 3 END AND SIDE PLATES
 ISSUED FOR CONSTRUCTION: 0 28.04.18
 DATE: 0 28.04.18
 DESCRIPTION: FERRY FACILITY PONTON 3 END AND SIDE PLATES



NOTES
1. FOR GENERAL NOTES REFER DRG 400002.

NOTE
ALL BOLTED CONNECTIONS TO BE 12 PLATE 8 CFW (BOTH SIDES) SP WITH 2-40x20 SS BOLTS MINIMUM UNC.

PROJECT		CLIENT	
DISCIPLINE	CERTIFIER	PROJECT NUMBER	403012
MAINTENANCE	2.7.2016	SHEET TITLE	PONTOONS
DESIGNER	2203	PROJECT DATA	FERRY FACILITY
CHECKED		DATE	2016/04/05
APPROVED		SURVEY	AREA 09
		ISSUED FOR CONSTRUCTION	
		DATE	
		DESCRIPTION	

CERTIFICATION		PROJECT MANAGEMENT INITIALS		DESIGNER/REVISION	
DISCIPLINE	CERTIFIER	ISSUED	BY	NO.	DATE
MAINTENANCE	2.7.2016	PROJECT NUMBER	403012	SHEET TITLE	PONTOONS
DESIGNER	2203	PROJECT DATA	FERRY FACILITY	PROJECT NUMBER	403012
CHECKED		DATE	2016/04/05	SHEET NUMBER	403012
APPROVED		SURVEY	AREA 09	REVISION	
		ISSUED FOR CONSTRUCTION			
		DATE			
		DESCRIPTION			

PROJECT		CLIENT	
DISCIPLINE	CERTIFIER	PROJECT NUMBER	403012
MAINTENANCE	2.7.2016	SHEET TITLE	PONTOONS
DESIGNER	2203	PROJECT DATA	FERRY FACILITY
CHECKED		DATE	2016/04/05
APPROVED		SURVEY	AREA 09
		ISSUED FOR CONSTRUCTION	
		DATE	
		DESCRIPTION	

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AECOM Australia Pty Ltd
ALBY RD 063 546 225
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Santos GLNG
GLADSTONE

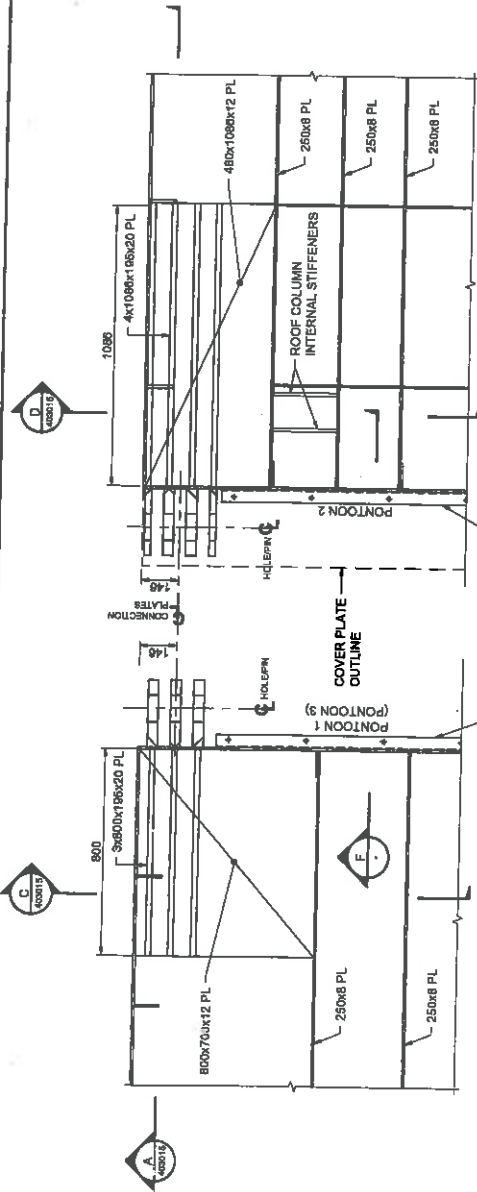
RG Tanna Marine Operations Terminal

QCC
100 Days Construction

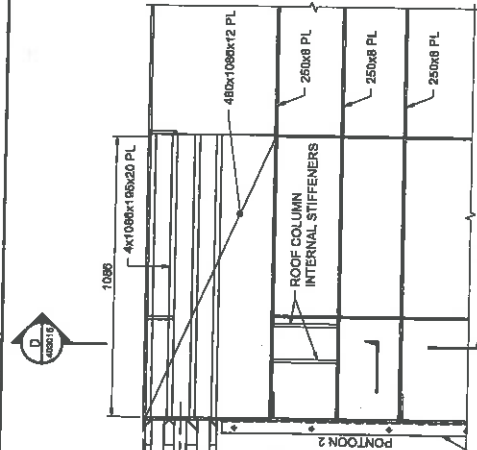
PROJECT: RG Tanna Marine Operations Terminal
CLIENT: Santos GLNG

NOTES

- 1. FOR GENERAL NOTES REFER DRG-400002
- 2. DECK FURNITURE NOT SHOWN FOR CLARITY.
- 3. INTERNAL STRENGTHENING SIMILAR ON BOTTOM PLATE.



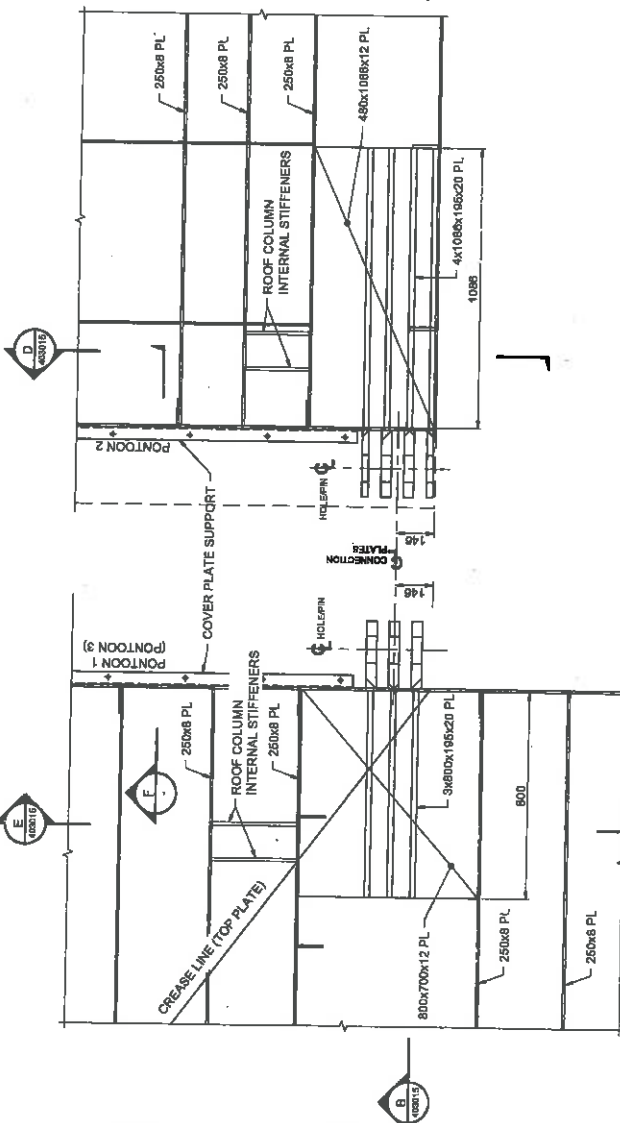
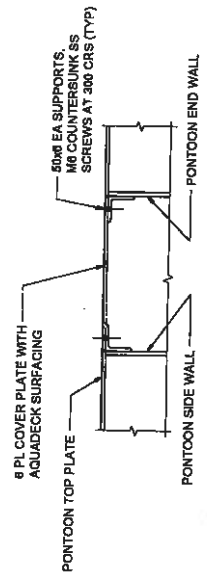
2 DETAIL
 SCALE 1:10
 40000 403000



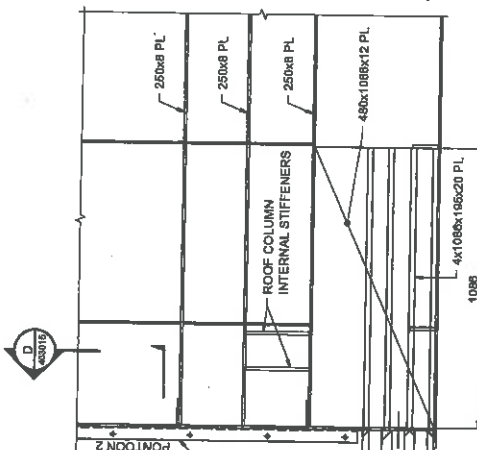
3 DETAIL
 SCALE 1:10
 40000 403000

COVER PLATE DETAIL

F SECTION
 SCALE 1:5



4 DETAIL
 SCALE 1:10
 40000 403000



5 DETAIL
 SCALE 1:10
 40000 403000



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 AECOM Australia Pty Ltd
 ABN 20 095 846 925
 www.aecom.com

PROJECT
RG Tanna Marine
Operations Terminal
 GLAUSTONE

CLIENT
Santos
GLNG
 a QGC business

CERTIFICATION

DWG/PLINE	CHECKER	DATE
MARITIME	T.F. O'H...	22/0

PROJECT MANAGEMENT INITIALS

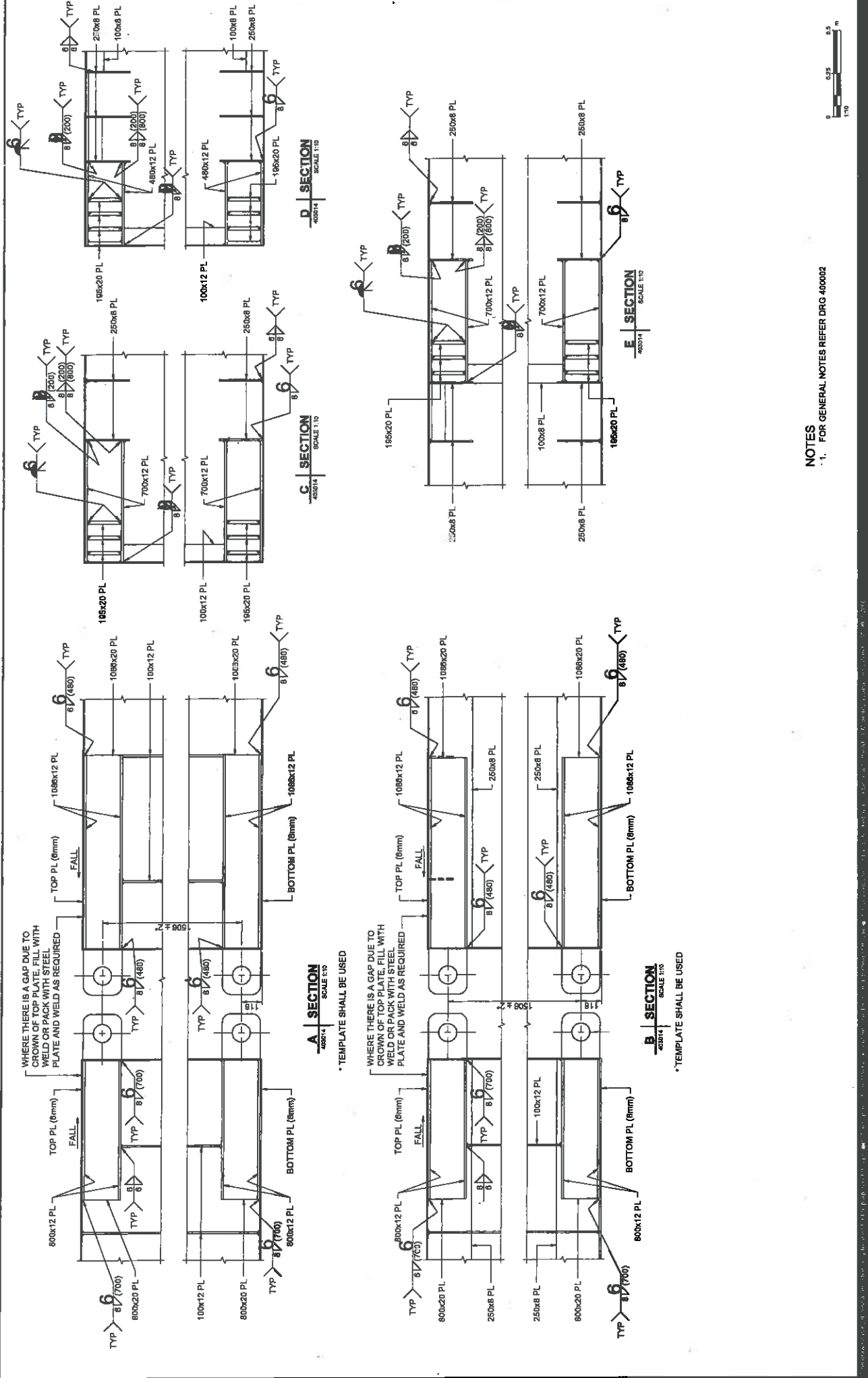
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COVERER	CHECKED	APPROVED

PROJECT DATA

DATE	ISSUED FOR CONSTRUCTION
26/01/19	AR

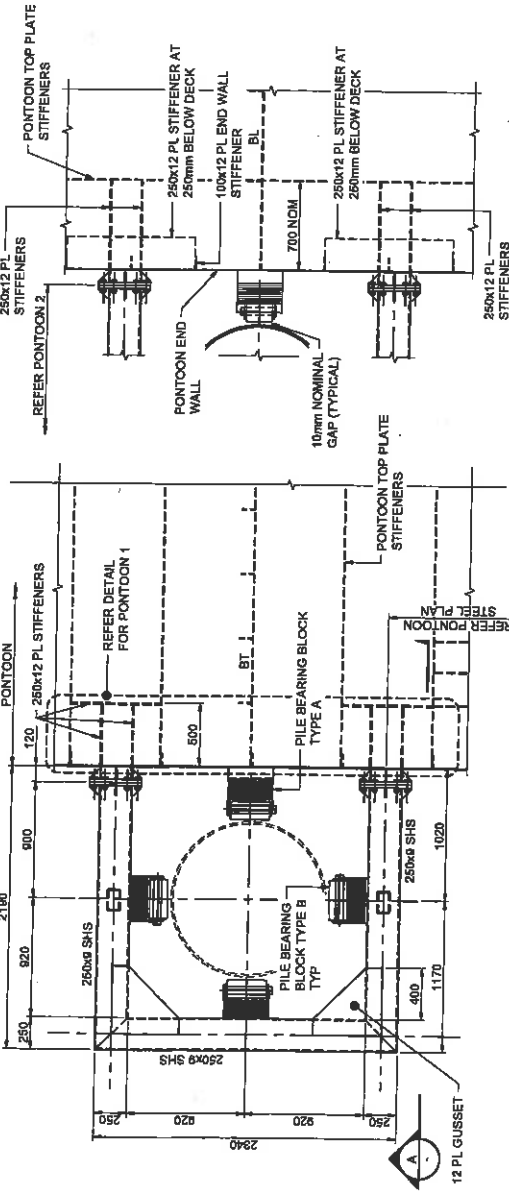
REVISION/REVISION

PROJECT NUMBER	4030014
SHEET TITLE	PANTOON CONNECTION PLATE DETAILS - SHT 1
SHEET NUMBER	0

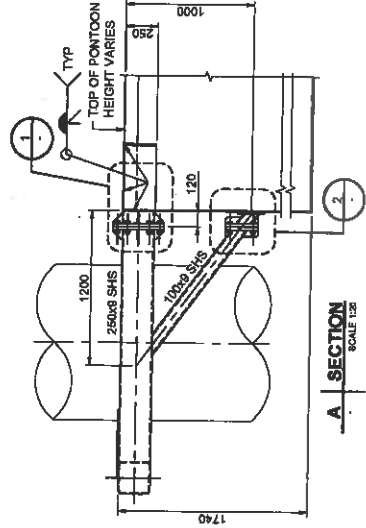


NOTES
 1. FOR GENERAL NOTES REFER DRG 40002

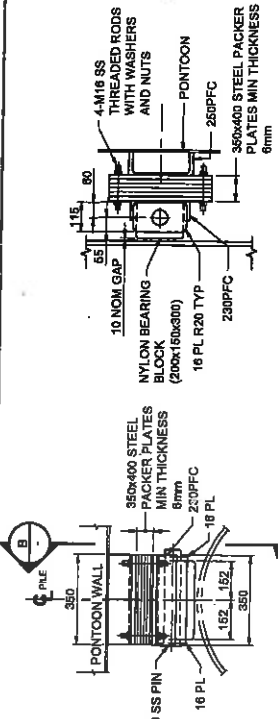
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CONSULTANT AECOM Australia Pty Ltd A/BN 20 085 846 028 www.aecom.com		CERTIFICATION DISCIPLINE: MARITIME CERTIFIER: T.P.H./AK RFQD No.: 2293		PROJECT DATA DESIGNER: [] CHECKED: [] APPROVED: []	
REVISION/REVISION		REVISION/REVISION		PROJECT NUMBER 60228018	
1. 2014-15. USE FOR CONSTRUCTION		1. 2014-15. USE FOR CONSTRUCTION		SHEET TITLE PONTONS CONNECTION PLATE DETAILS - SHT 2	
DATE: []		DATE: []		SHEET NUMBER 403015	
DESCRIPTION: []		DESCRIPTION: []		REVISION 0	



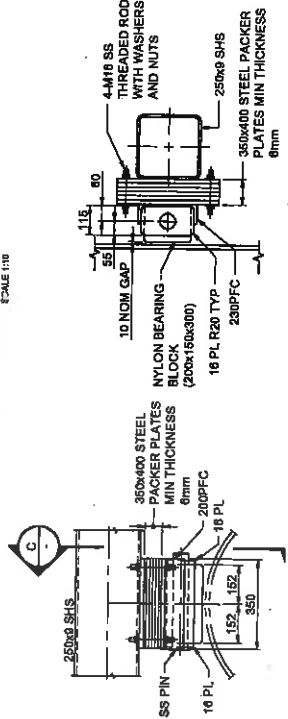
PILE GUIDE PLAN - PONTON 2
SCALE 1:20



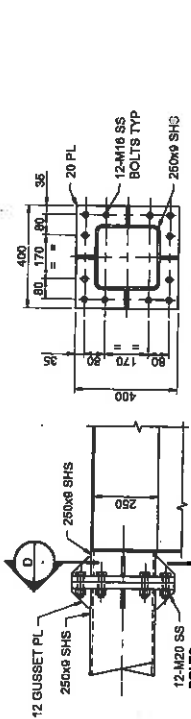
A SECTION
SCALE 1:20



PILE BEARING BLOCK - TYPE A
SCALE 1:10

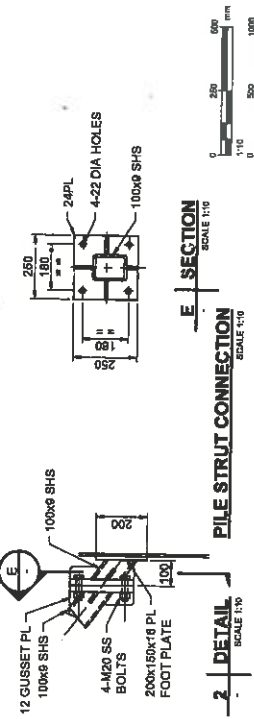


PILE BEARING BLOCK - TYPE B
SCALE 1:10



D SECTION
SCALE 1:6

PILE GUIDE CONNECTION
SCALE 1:6



E SECTION
SCALE 1:10

PILE STRUT CONNECTION
SCALE 1:10

NOTES
1. FOR GENERAL NOTES REFER DRG 400002

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Santos GLNG
GLADSTONE

QGC
A QGC Group Member

CLIENT
RG Tanna Marine
Operations Terminal

PROJECT
RG Tanna Marine
Operations Terminal
GLADSTONE

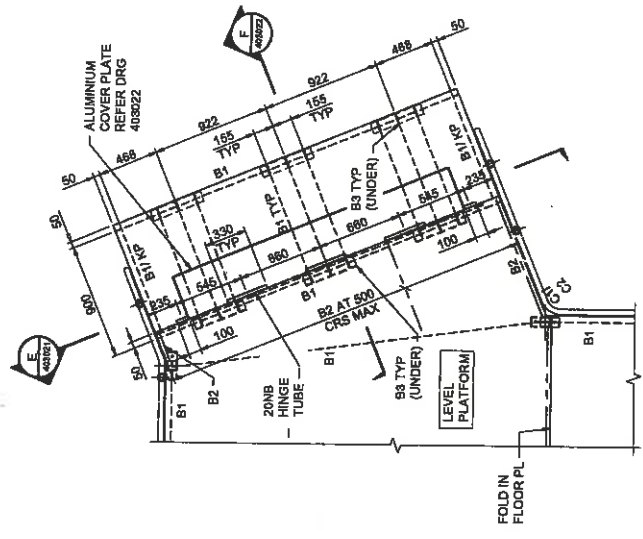
CERTIFICATION
DISCIPLINE: MARITIME
AUTHORITY: T.P.A.
2023

PROJECT DATA
DATE: 2024.10
ISSUED FOR CONSTRUCTION

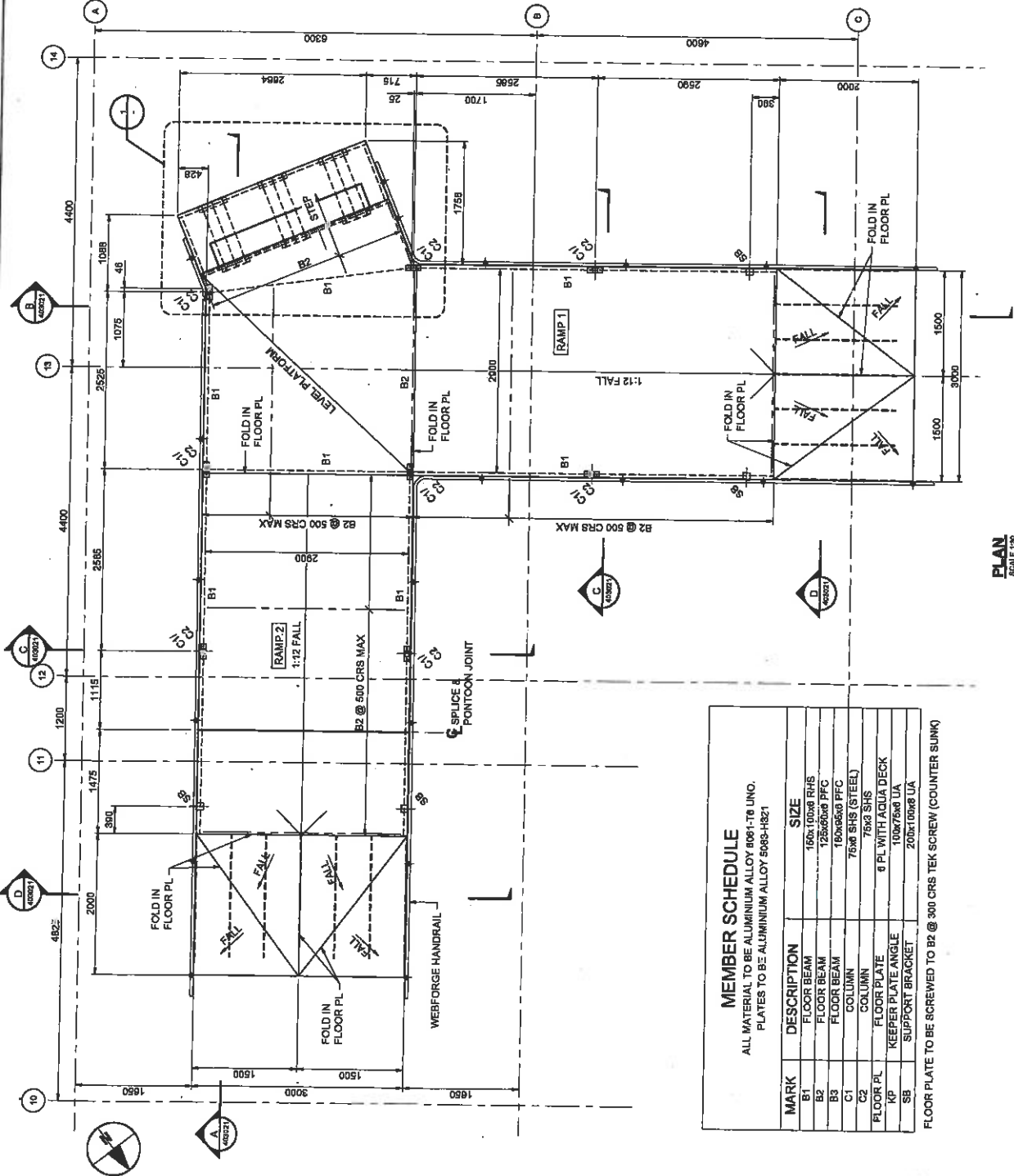
PROJECT MANAGEMENT INITIALS
COV: []
DESIGNER: []
CHECKED: []
APPROVED: []

REGISTRATION
PROJECT NUMBER: 80323818
SHEET TITLE: PONTONS - DETAILS
SHEET NUMBER: 403017

NOTES
 1. FOR GENERAL NOTES REFER DRG 400002.
 2. ALUMINIUM ALLOY FRAME TO BE FULLY WELDED UNO.



1 DETAIL
 SCALE: 1:30



MEMBER SCHEDULE
 ALL MATERIAL TO BE ALUMINIUM ALLOY 6061-T6 UNO.
 PLATES TO BE ALUMINIUM ALLOY 5049-H821

MARK	DESCRIPTION	SIZE
B1	FLOOR BEAM	100x100x8 RHS
B2	FLOOR BEAM	125x60x8 PFC
B3	FLOOR BEAM	100x60x8 PFC
C1	COLUMN	75x75x8 SHS (STEEL)
C2	COLUMN	75x75x8 SHS
FLOOR PL	FLOOR PLATE	8 PL WITH AQUA DECK
KP	KEEPER PLATE ANGLE	100x75x8 UA
SB	SUPPORT BRACKET	200x100x8 UA

FLOOR PLATE TO BE SCREWED TO B2 @ 300 CRS TEK SCREW (COUNTER SUNK)

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 ABN 20 000 049 825
 www.aecom.com

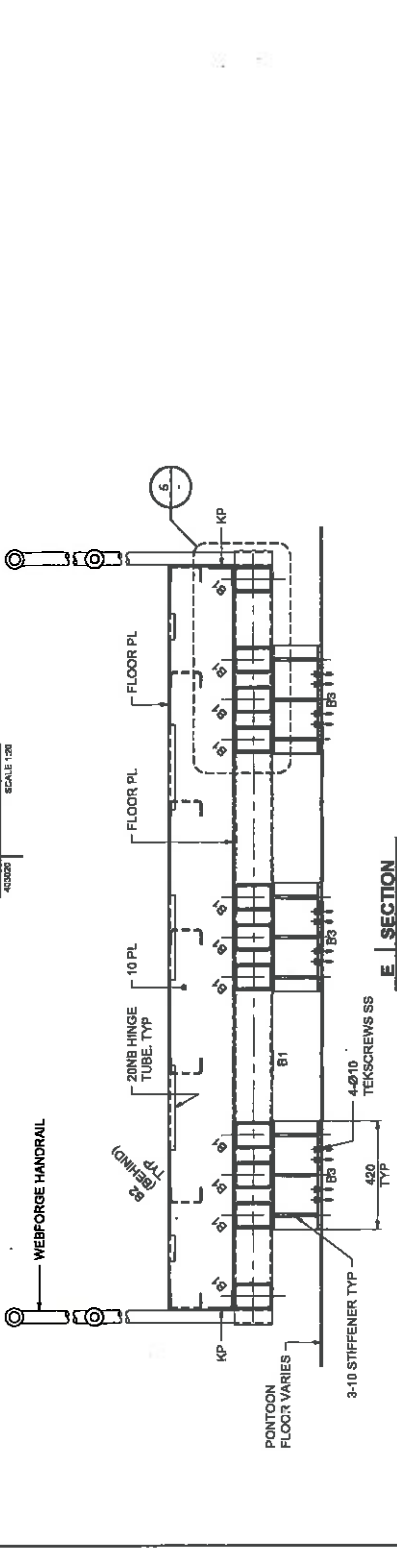
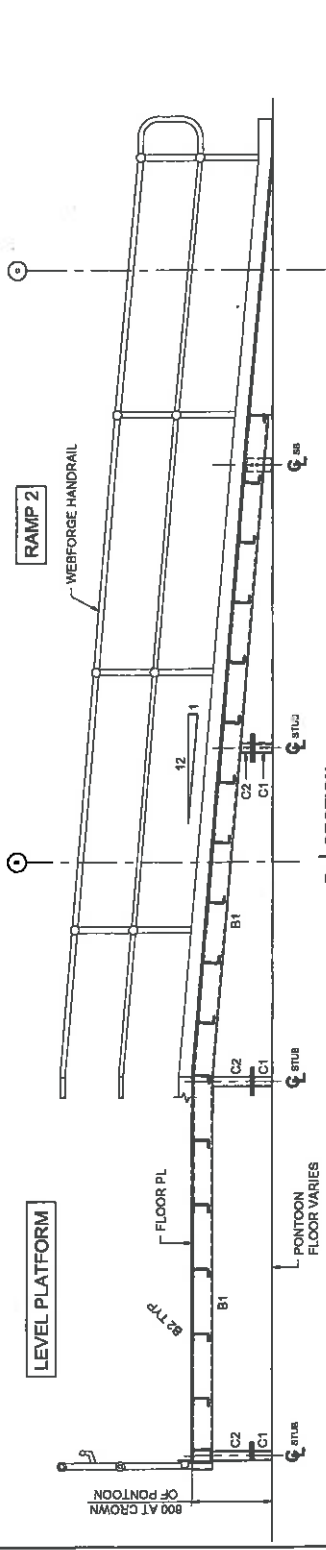
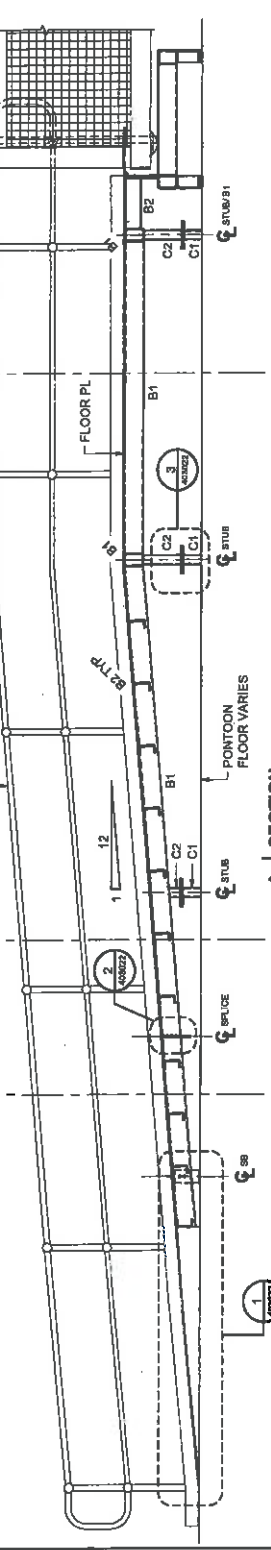
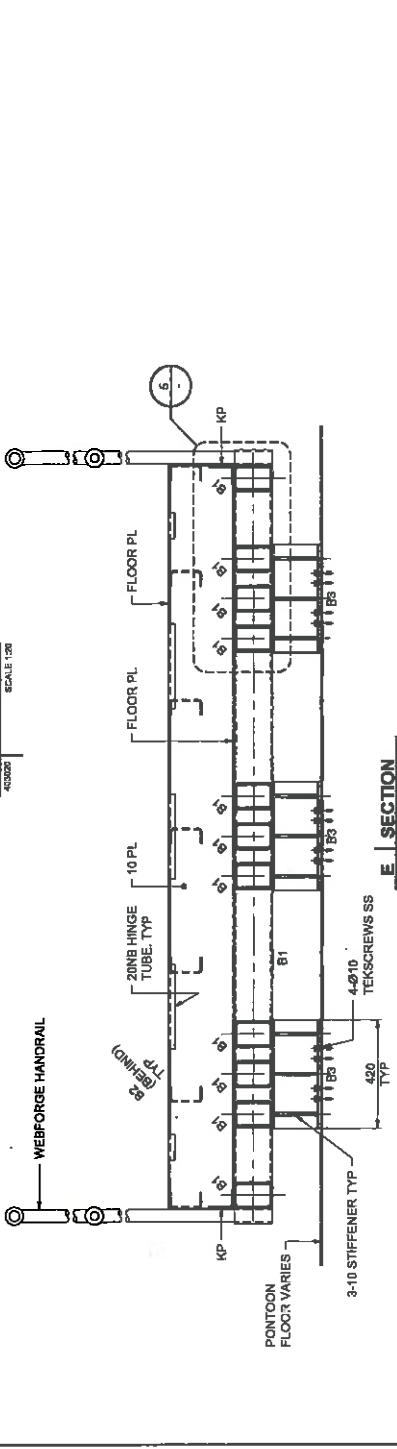
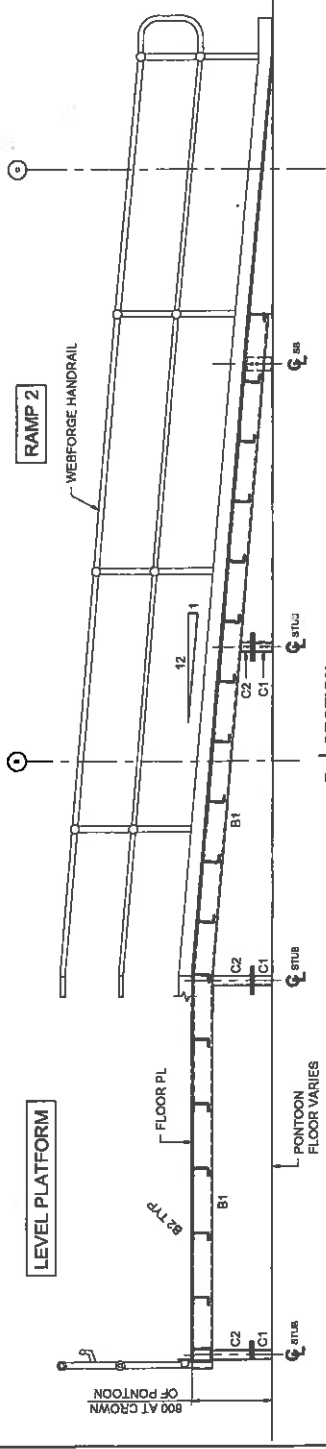
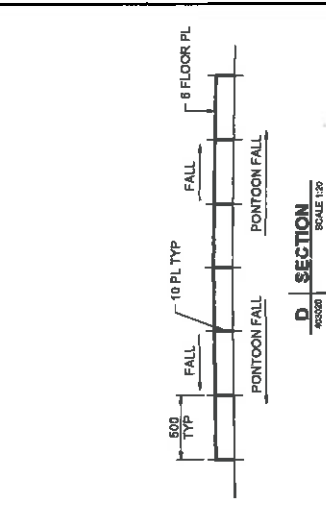
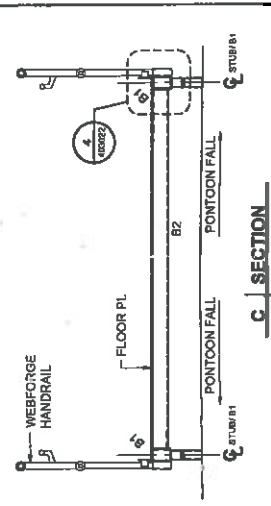
PROJECT
 RG Tanna Marine
 Operations Terminal
 GLADSTONE

CLIENT
Santos
 GLNG

QGC
 7, 8th Floor, 100 Market Street, Brisbane, QLD 4000

CERTIFICATION			
DISCIPLINE	CERTIFIER	REF ID NO.	NO.
MARITIME	T. PARKS	2020	
DESIGNER			
DESIGNER	CHECKED	APPROVED	
PROJECT DATA			
ISSUED / REV.	ISSUED / REV.	ISSUED / REV.	ISSUED / REV.
DATE	DATE	DATE	DATE
DESCRIPTION	DESCRIPTION	DESCRIPTION	DESCRIPTION

PROJECT MANAGEMENT INITIALS	
ISSUE/REVISION	
PROJECT NUMBER	8032818
SHEET TITLE	FERRY FACILITY
SHEET NUMBER	PONTOONS
REVISION	LANDING AND RAMP DETAILS - SHT 1
403020	



NOTES

- FOR NOTES AND MEMBER SIZES REFER DRG 403020.

PROJECT MANAGEMENT INITIALS		ISSUE/REVISION	
BS	TP	NO	
DESIGNER	CHECKED	APPROVED	
PROJECT DATA		DATE	
DATE	AND	SURVEY	MOA IS
1	28.04.18	ISSUED FOR CONSTRUCTION	
2			
3			
NO.	DATE	DESCRIPTION	REVISION
			0

CERTIFICATION		PROJECT NUMBER	
DISCIPLINE	CERTIFIER	PROJECT NO.	
MARTIME	T. T. 1890.	60323818	
		SHEET TITLE	
		FERRY FACILITY	
		PONTONS	
		LANDING AND RAMP DETAILS - SHT 2	

PROJECT		CLIENT	
PROJECT	RG Tanna Marine Operations Terminal	CLIENT	Santos GLNG
	GLAUSTONE		A JET GROUP BUSINESS

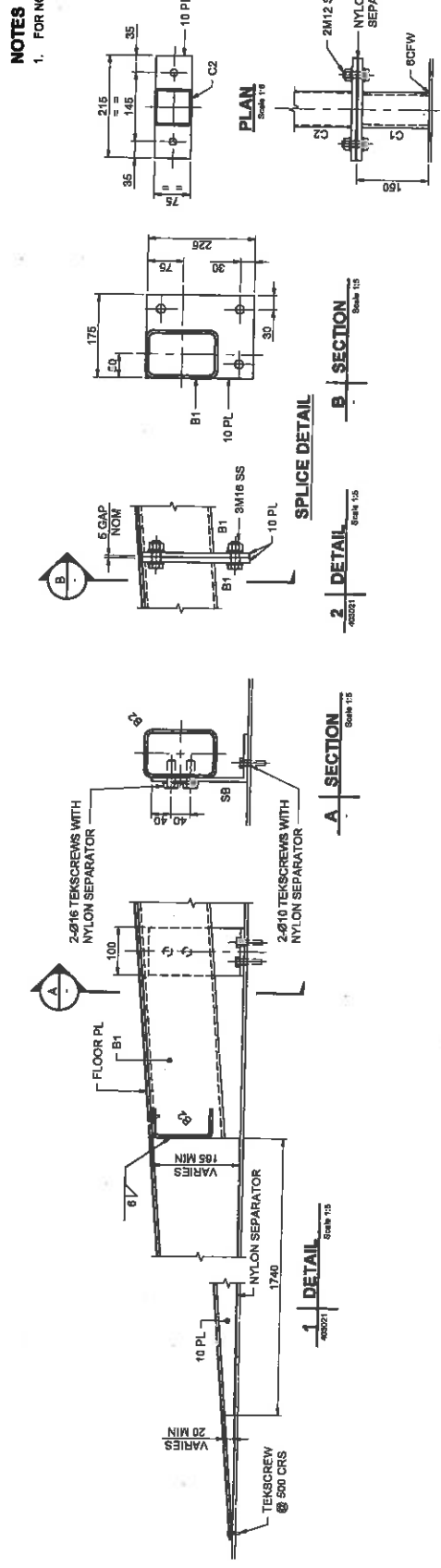
CONTRACT		CONTRACT	
CONTRACT	AECOM (Australia) Pty Ltd	CONTRACT	
	AECOM 2018 003 848 002		
	www.aecom.com		

AECOM		SANTOS GLNG	
AECOM	SANTOS GLNG		

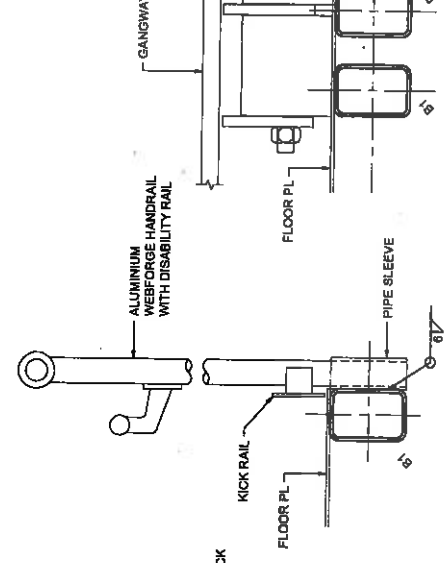
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PROJECT	RG Tanna Marine Operations Terminal	CLIENT	Santos GLNG
	GLAUSTONE		A JET GROUP BUSINESS

CONTRACT		CONTRACT	
CONTRACT	AECOM (Australia) Pty Ltd	CONTRACT	
	AECOM 2018 003 848 002		
	www.aecom.com		

CERTIFICATION		PROJECT NUMBER	
DISCIPLINE	CERTIFIER	PROJECT NO.	
MARTIME	T. T. 1890.	60323818	
		SHEET TITLE	
		FERRY FACILITY	
		PONTONS	
		LANDING AND RAMP DETAILS - SHT 2	

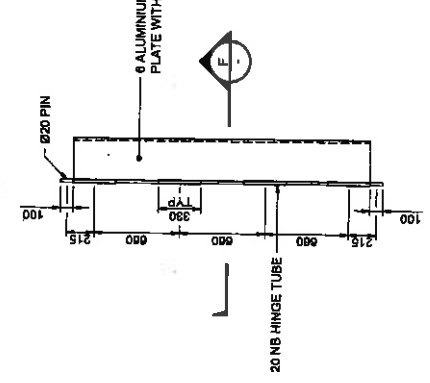


3 | DETAIL
 4/2024 Scale: 1:5
STUB CONNECTION



4 | DETAIL
 4/2024 Scale: 1:5
HANDRAIL CONNECTION

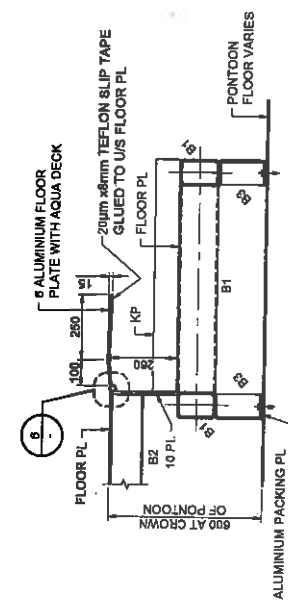
5 | DETAIL
 4/2024 Scale: 1:5



ALUMINIUM COVER PLATE DETAIL
 Scale: 1:20



6 | DETAIL
 SCALE: 1:2
HINGE ON PLATE



6 | DETAIL
 SCALE: 1:2
HINGE ON LANDING

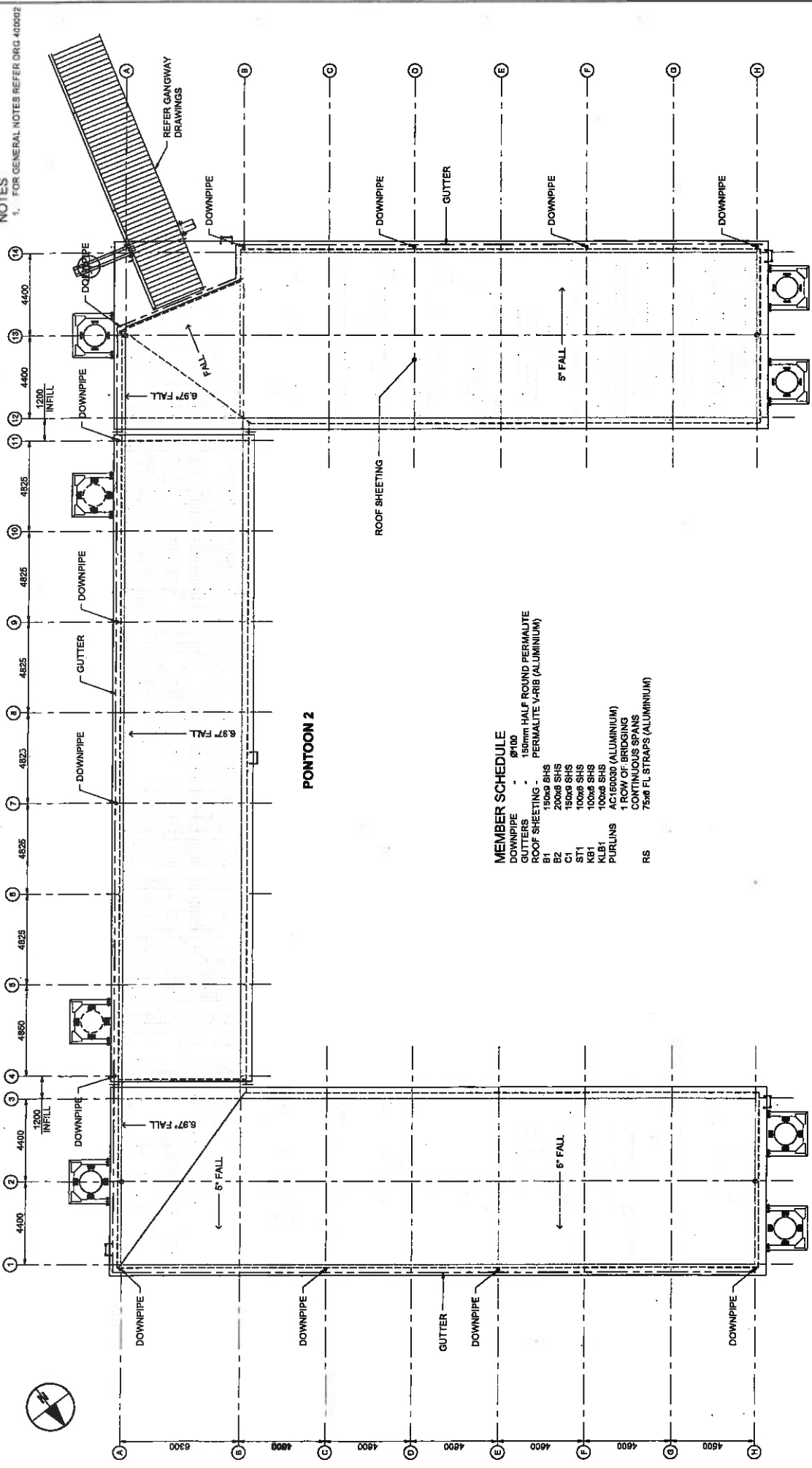
F | SECTION
 4/2024 SCALE: 1:10



NOTES
 1. FOR NOTES AND MEMBER SIZES REFER DRG 403920.

CLIENT		PROJECT	
RG Tanna Marine Operations Terminal		GLADSTONE	
CLIENT		PROJECT NUMBER	
Santos GLING		0032818	
COMMITMENT		SHEET TITLE	
AECOM Australia Pty Ltd A.B.N 20 053 848 825 www.aecom.com		FERRY FACILITY PONTONS LANDING AND RAMP DETAILS - SHIT 2	
CERTIFICATION		ISSUE/REVISION	
DISCIPLINE	CHECKER	ISSUE NO.	NO.
MARITIME	T.J. MALVA	DESIGNER	CHECKED
PROJECT NO.	2233	APPROVED	
PROJECT DATA		DATE FOR CONSTRUCTION	
DATUM / AHD	SURVEY	DATE	DESCRIPTION
	MOA 56		
REVISION		SHEET NUMBER	
NO.	DESCRIPTION	403922	

NOTES
1. FOR GENERAL NOTES REFER DRG 40002



MEMBER SCHEDULE

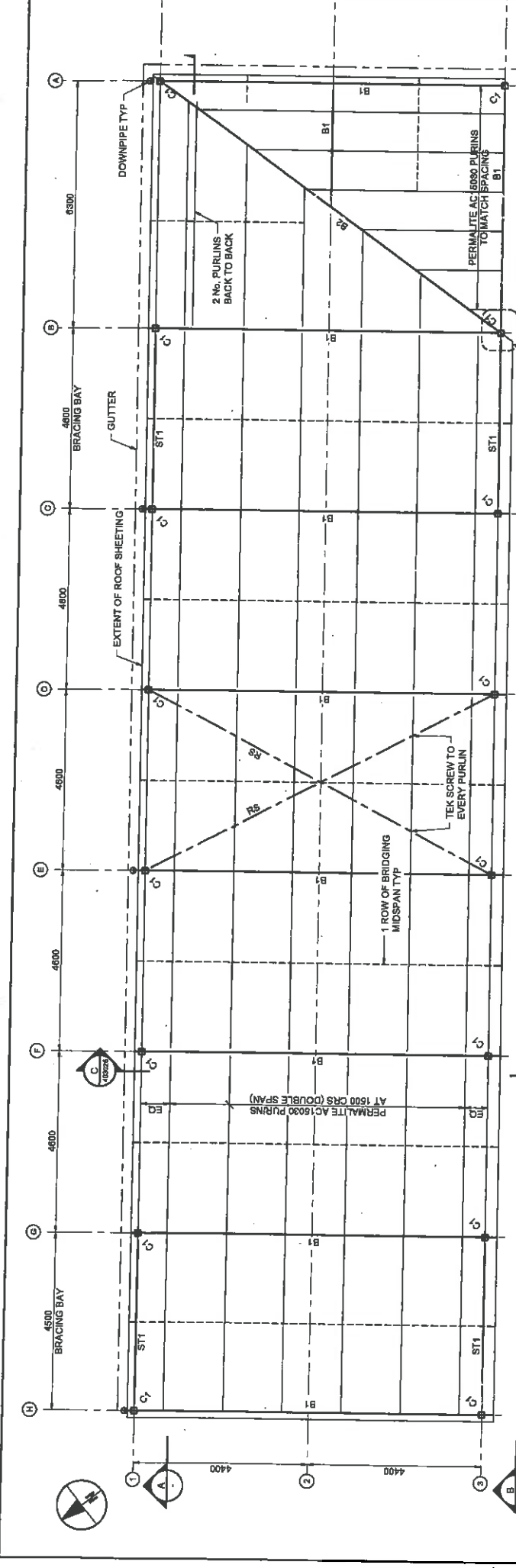
DOWNPIPE	Ø100
GUTTERS	150mm HALF ROUND PERMALITE
ROOF SHEETING	PERMALITE V-RIB (ALUMINIUM)
B1	150x6 SHS
B2	200x6 SHS
CZ	100x6 SHS
ST1	100x6 SHS
KB1	100x6 SHS
KL1	100x6 SHS
PURLINS	AC160030 (ALUMINIUM)
	1 ROW OF BRIDGING
	CONTINUOUS SPANS
RS	75x6 FL STRAPS (ALUMINIUM)

PONTOON - ROOF PLAN
SCALE 1:100

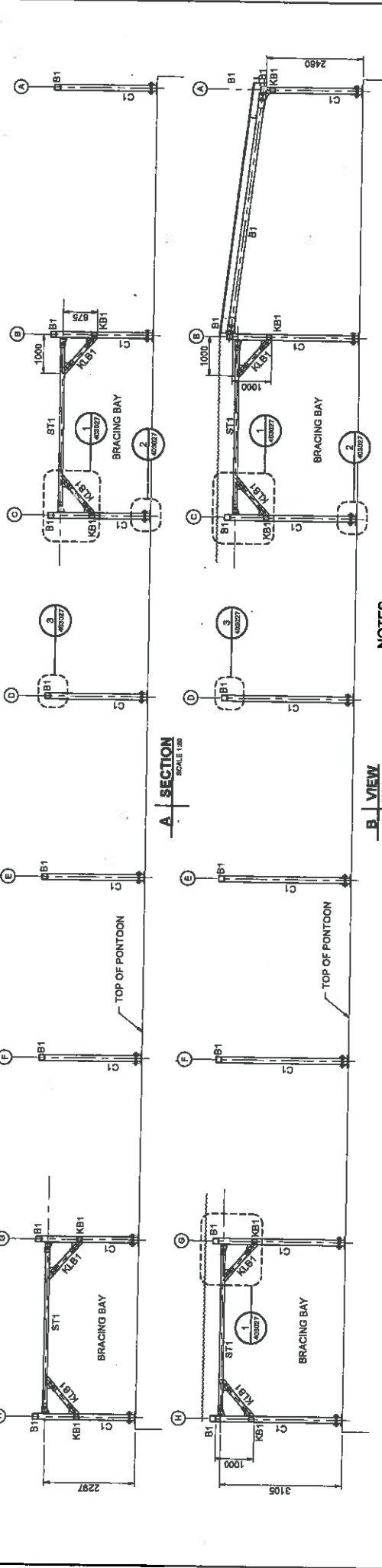
PONTOON 3

PONTOON 1

PROJECT		CLIENT	
RG Tanna Marine Operations Terminal GLASTONE		Santos GLNG	
CONSULTANT		ISSUE/REVISION	
AECOM 45004 Avenue 17th, LA A.B.N 20 003 548 503 www.aecom.com		PROJECT NUMBER: 00323616 SHEET TITLE: FERRY FACILITY PONTOONS ROOF STRUCTURE - GA ISSUED FOR CONSTRUCTION: 0 28.04.19 DATE: 0 28.04.19 DESCRIPTION: ROOF STRUCTURE - GA SHEET NUMBER: 400023 REVISION: 0	
CERTIFICATION		PROJECT MANAGEMENT INITIALS	
DISCIPLINE: MARITIME	CERTIFIER: T. THOMPSON	DESIGNER: []	CHECKED: []
		APPROVED: []	
		PROJECT DATA	
		DATE: []	AND: []
		SURVEY: []	MOA: []



PONTON 1 - ROOF FRAMING PLAN
SCALE 1:20



A SECTION
SCALE 1:20

B VIEW
SCALE 1:20

NOTES
1. FOR GENERAL NOTES REFER DRG 400002.
2. FOR MEMBER SCHEDULE REFER DRG 403023.

PROJECT RG Tanna Marine Operations Terminal GLADSTONE
CLIENT Santos GLNG

PROJECT MANAGEMENT INITIALS

DISCIPLINE	CERTIFIER	INFO No.	TP	NO
MARITIME	T. T. T. T.	2233	CHECKED	APPROVED

CERTIFICATION

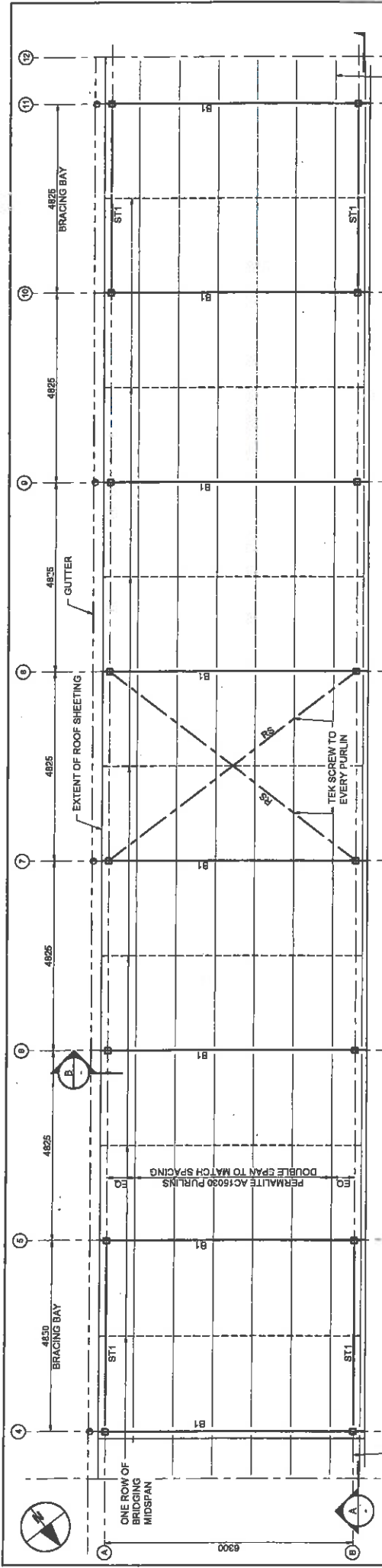
DATE	BY	DESCRIPTION

REVISION

NO.	DATE	DESCRIPTION

PROJECT NUMBER 40323816
SHEET NUMBER PONTON 1
PROJECT TITLE FERRY FACILITY
ROOF FRAMING PLAN & SECTION

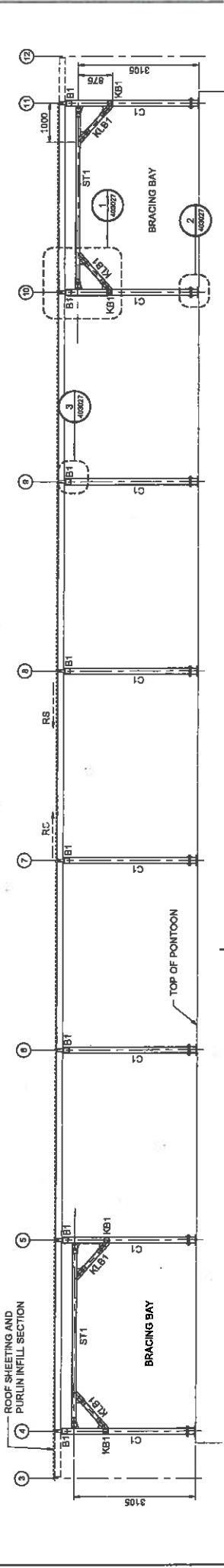
AECOM CONSULTANT
AECOM Australia Pty Ltd
AECOM 20 033 144 925
www.aecom.com



PONTON 2 - ROOF FRAMING PLAN
SCALE 1:50

INFILL PURLINS AND ROOF SHEETING TO BE FIXED IN PLACE AFTER PONTON 3 IS IN POSITION

INFILL PURLINS AND ROOF SHEETING TO BE FIXED IN PLACE AFTER PONTON 1 IS IN POSITION



A SECTION
SCALE 1:50

C SECTION
SCALE 1:50

D SECTION
SCALE 1:50

NOTES
1. FOR GENERAL NOTES REFER DRG 400002
2. FOR MEMBER SCHEDULE REFER DRG 403023

NOTES
1. FOR GENERAL NOTES REFER DRG 400002.
2. FOR MEMBER SCHEDULE REFER DRG 403023.



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Santos GLNG
A 66 Group Member

RG Tanna Marine Operations Terminal GUASTONE

CLIENT

PROJECT

CERTIFICATION

DISCIPLINE	CHECKER	DATE	REVISION
MARINE	J.J. [Signature]	11/08/15	1

PROJECT MANAGEMENT INITIALS

ISSUE	NO.
DESIGNER	CHECKED
APPROVED	

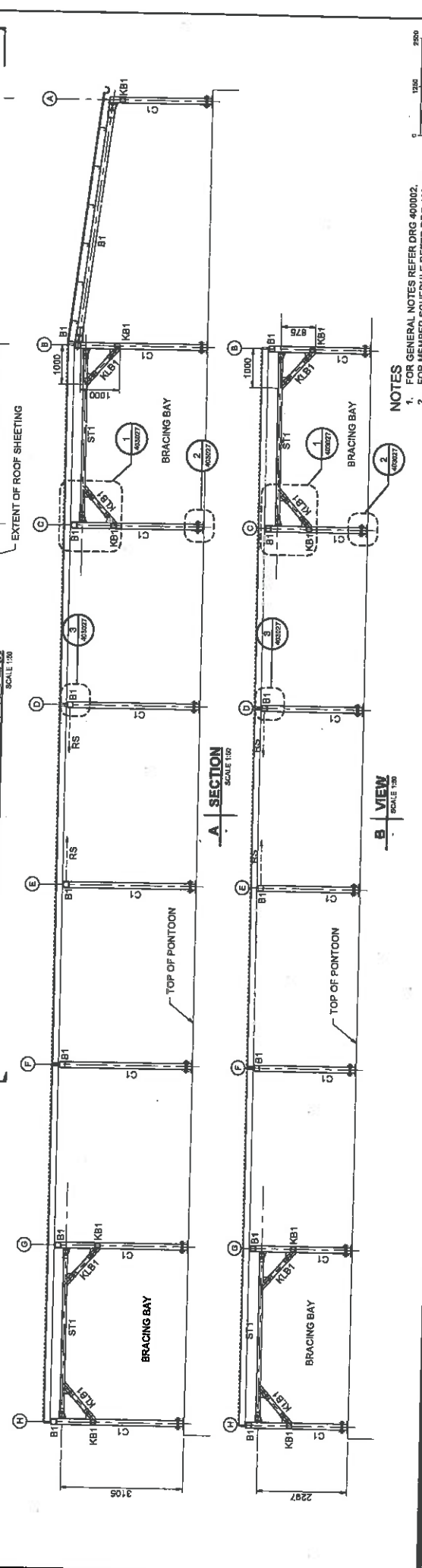
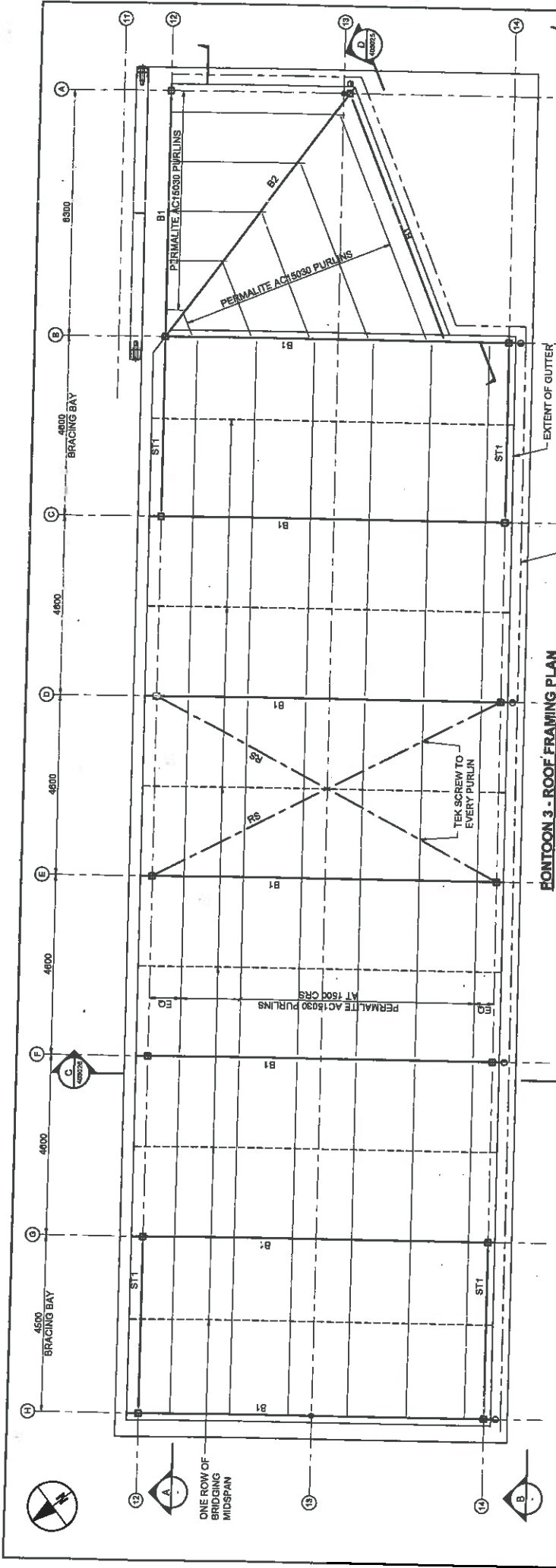
PROJECT DATA

DRAWN	DATE	ISSUED FOR CONSTRUCTION
JAN		

ISSUE/REVISION

PROJECT NUMBER	60323818
SHEET TITLE	FERRY FACILITY PONTON 2 ROOF FRAMING PLAN & SECTION
SHEET NUMBER	403025

0



NOTES

1. FOR GENERAL NOTES REFER DRG 400002.
2. FOR MEMBER SCHEDULE REFER DRG 400023.

CERTIFICATION

DISCIPLINE	CERTIFIED	REQ. NO.	NO.
MULTI-TASK	T. KONG	228	

PROJECT MANAGEMENT INITIALS

BS	TP	NO
DESIGNER	CHECKED	APPROVED

PROJECT DATA

DATE	BY	SURVEY	NO.
20.12.19	REVIEW FOR CONSTRUCTION		

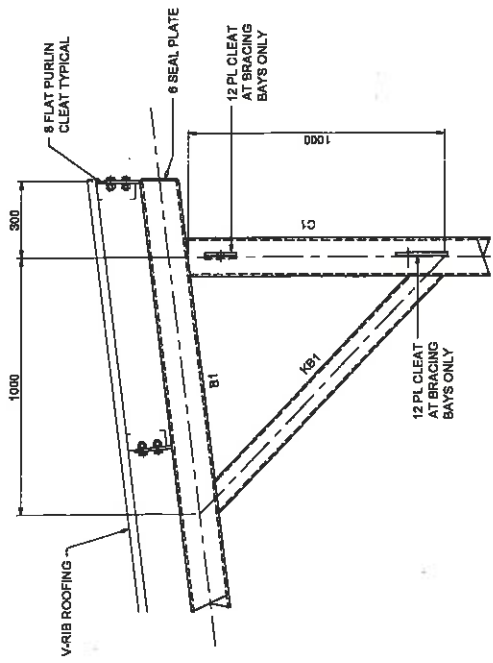
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PROJECT NUMBER	SHEET TITLE
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REVISION

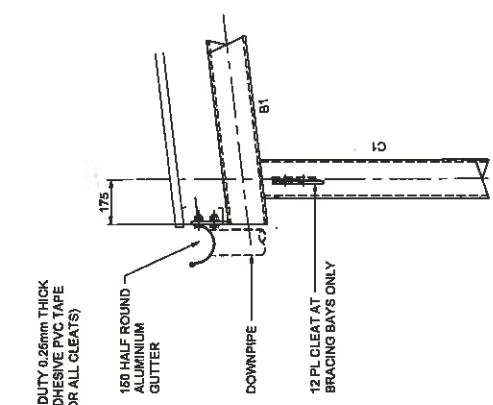
NO.	DATE	DESCRIPTION
2	20.12.19	REVIEW FOR CONSTRUCTION

400026

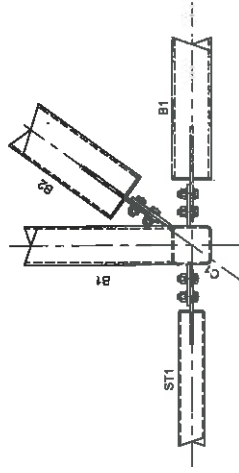


5 | DETAIL
SCALE 1:10
400024
400025
400026

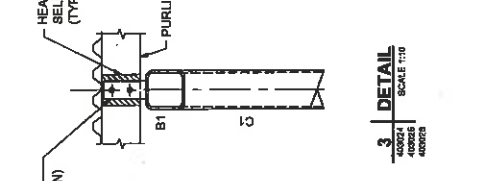
NOTES
1. FOR GENERAL NOTES REFER DRG 400002
2. ALL BOLTED CONNECTIONS TO BE 12 PLATE
8 CFW (BOTH SIDES) SP WITH 2-M20 SS
BOLTS MINIMUM UNO.



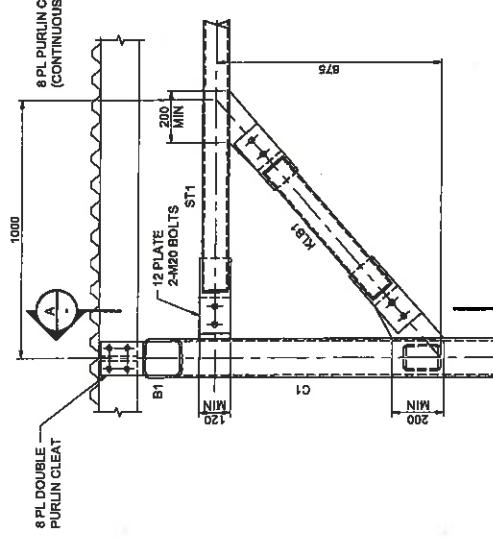
4 | DETAIL
SCALE 1:10
400024
400025
400026



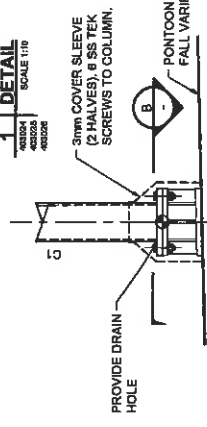
6 | DETAIL
SCALE 1:10
400024
400025
400026



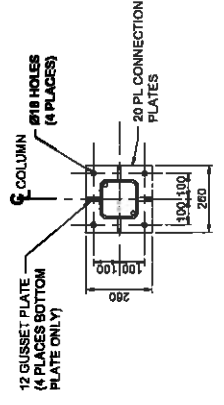
3 | DETAIL
SCALE 1:10
400024
400025
400026



1 | DETAIL
SCALE 1:10
400024
400025
400026



2 | DETAIL
SCALE 1:10
400024
400025
400026



B | SECTION
SCALE 1:10
400024
400025
400026

MEMBER SCHEDULE

DOWNPIPE	Ø100
GUTTERS	150mm HALF ROUND PERMALITE
ROOF SHEETING	PERMALITE V-RIB (ALUMINIUM)
B1	160x8 SHS
B2	200x8 SHS
C1	150x8 SHS
ST1	100x8 SHS
KB1	100x8 SHS
ALB1	100x8 SHS
PURLINS	AC760030
FRONT OF BRIDGING	CONCRETE SPANS
RS	75x8 PL STRAPS (ALUMINIUM)

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Santos GLNG CLIENT
RG Tanna Marine Operations Terminal
GLADSTONE

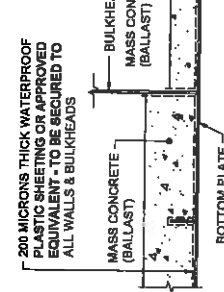
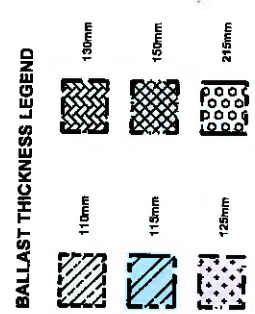
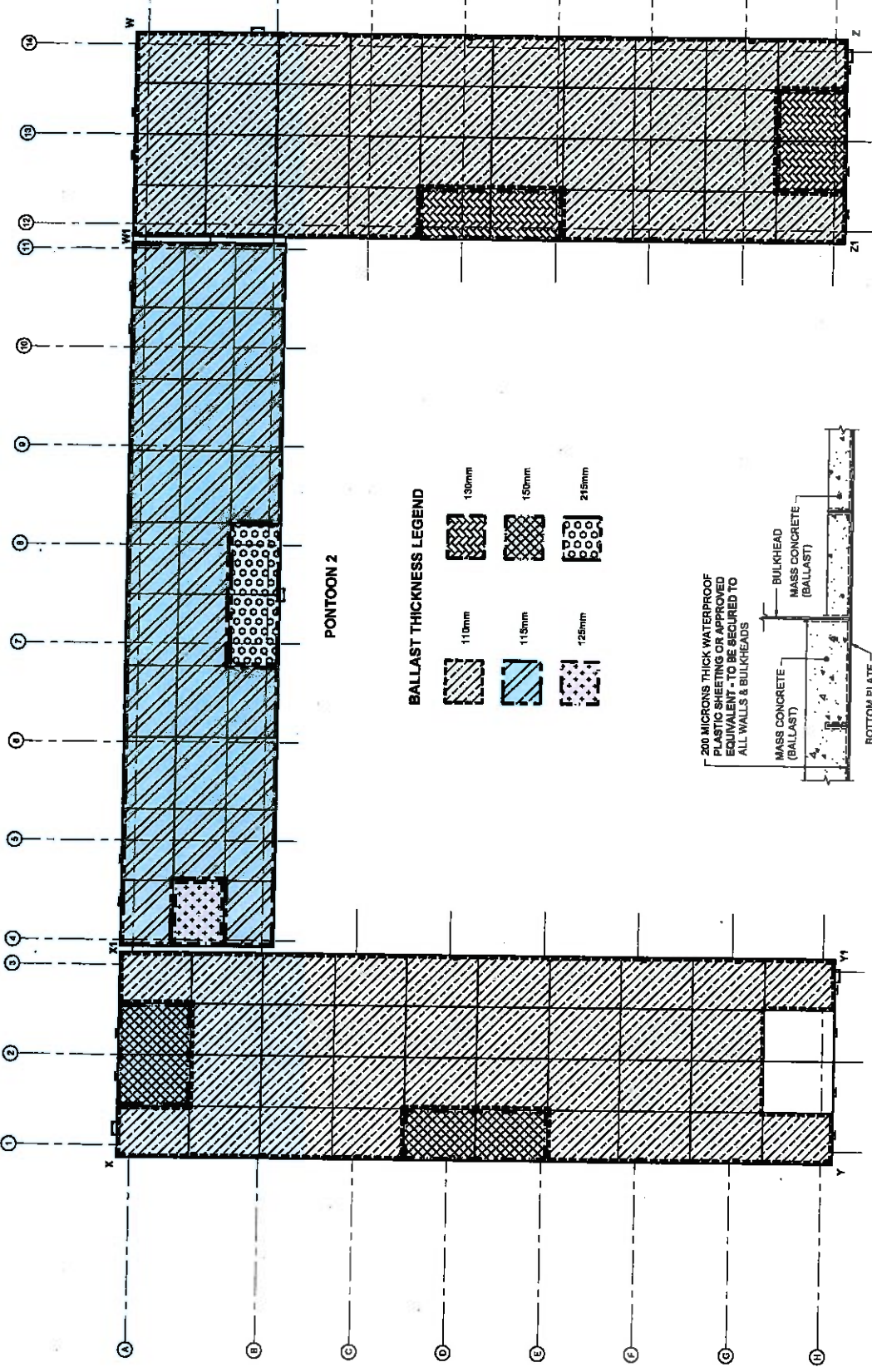
QCQC A 400000 member

PROJECT MANAGEMENT INITIALS			
DESIGNER	CHKD	APPD	US
DATE	AUD	SURVEY	MCA SB

ISSUE/REVISION	
NO	DESCRIPTION

PROJECT NUMBER: 80323818
SHEET TITLE: FERRY FACILITY ROOF FRAMING DETAILS
SHEET NUMBER: 403027

- NOTES**
- FOR GENERAL NOTES REFER DRG 40000C.
 - CONCRETE BALLAST THICKNESSES ARE AN ESTIMATE ONLY. MINOR ADJUSTMENT MAY BE REQUIRED BY ADDING CONCRETE BLOCKS, ADDED CONCRETE BLOCKS SHALL BE SECURED ACCORDING TO THE PONTON BY STAINLESS STEEL POWELS.
 - BALLAST CALCULATED TO TARGET.
 - FINAL DL FREEBOARD OF FOUR CORNERS (X-Y, Z & W) MUST BE BETWEEN 1.150m TO 1.200m.
 - MAX DIFFERENCE OF FREEBOARD BETWEEN ALL CORNERS X-X1, Y-Y1, Z-Z1 AND W-W1 IS TO BE 15mm.



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CONSULTANT
AECOM Australia Pty Ltd
A/EN 20 092 848 925
www.aecom.com

PROJECT
RG Tanna Marine Operations Terminal
GLASSTONE

CLIENT
Santos GLNG

QGC
A Santos Company

CERTIFICATION
DISCIPLINE: MARINE
CERTIFIER: T.P. AB...
REF NO: 2283

PROJECT MANAGEMENT INITIALS

DESIGNER	CHECKED	NO	APPROVED

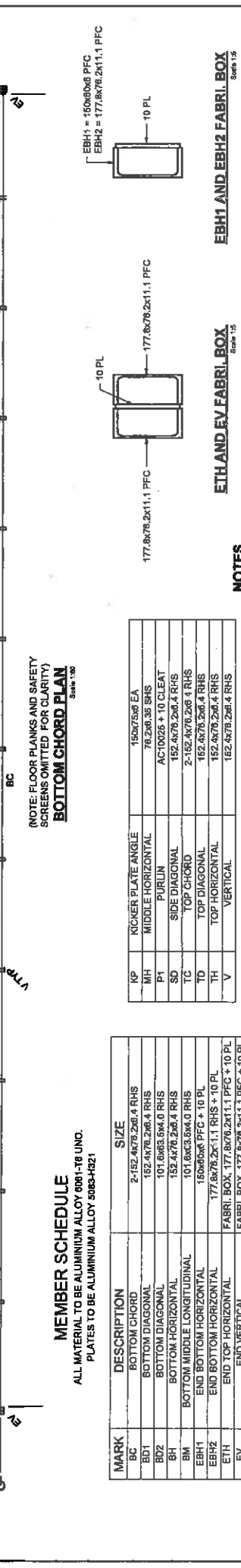
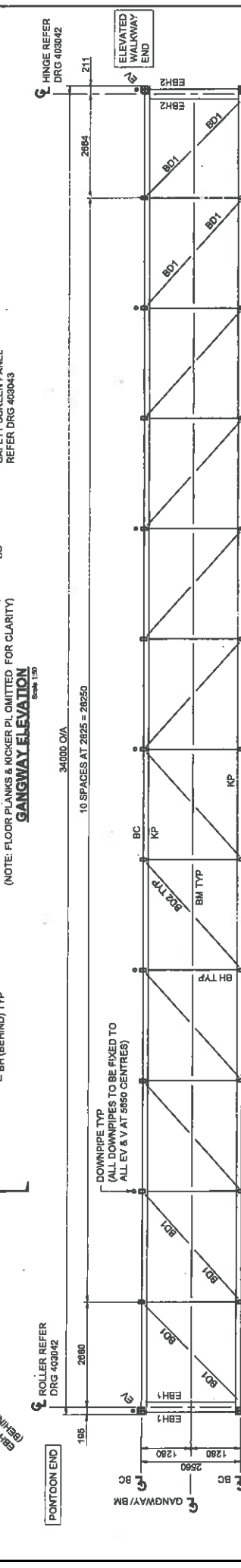
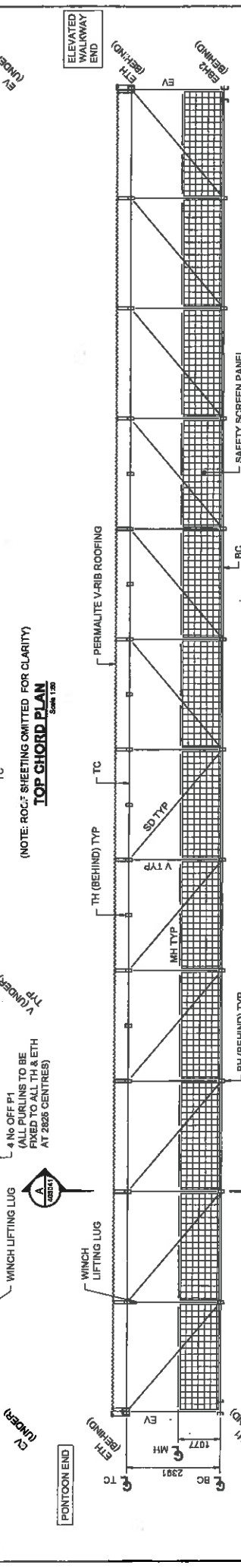
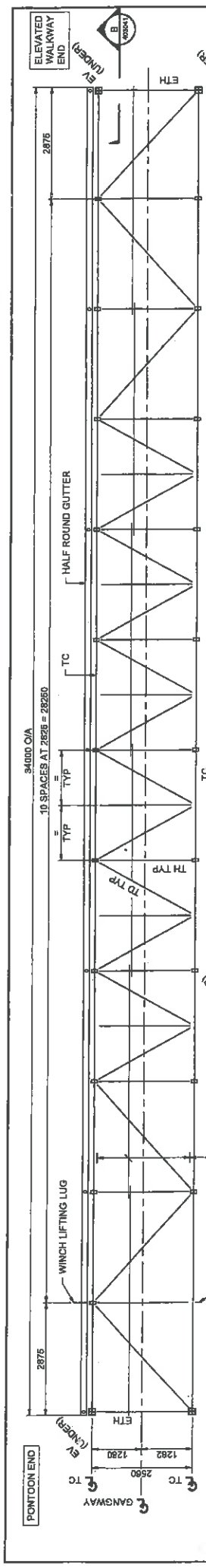
PROJECT DATA

DATE / A/D	DATE	SURVEY	ISSUE / A/G

ISSUE/REVISION

NO	DESCRIPTION	DATE	BY
1	ISSUED FOR CONSTRUCTION		

PROJECT NUMBER: 00320920
SHEET TITLE: FERRY FACILITY PONTONS BALLAST LAYOUT AND DETAILS
SHEET NUMBER: 40000C
REVISION: 0



MEMBER SCHEDULE
ALL MATERIAL TO BE ALUMINIUM ALLOY 6061-T6 UNO.
PLATES TO BE ALUMINIUM ALLOY 5083-H321

NOTES
1. FOR GENERAL NOTES REFER DRG 400002.
2. ALUMINIUM ALLOY FRAME TO BE FULLY WELDED UNO.

ETH AND EV FABRI. BOX Scale 1:5
EBH1 = 150x60x6 PFC
EBH2 = 177.8x76.2x1.1 PFC

ETH AND EBH2 FABRI. BOX Scale 1:5

TOP CHORD PLAN Scale 1:20
(NOTE: ROC: SHEETING OMITTED FOR CLARITY)

GANGWAY ELEVATION Scale 1:20
(NOTE: FLOOR PLANKS & KICKER PL OMITTED FOR CLARITY)

BOTTOM CHORD PLAN Scale 1:20
(NOTE: FLOOR PLANKS AND SAFETY SCREENS OMITTED FOR CLARITY)

CERTIFICATION

DISCIPLINE	CERTIFIED	APPROVED	DATE
MARINE	[Signature]	[Signature]	

PROJECT MANAGEMENT INITIALS

DISCIPLINE	DESIGNER	CHECKED	APPROVED
MARINE	[Signature]	[Signature]	[Signature]

PROJECT DATA

DATE	AUD	SURVEY	NO. 05

ISSUE/REVISION

NO	DATE	DESCRIPTION
0	2015.10	ISSUED FOR CONSTRUCTION

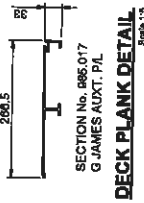
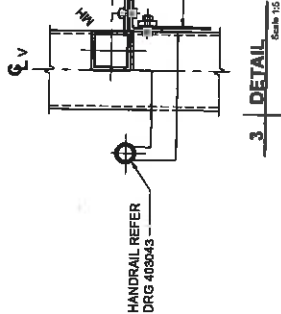
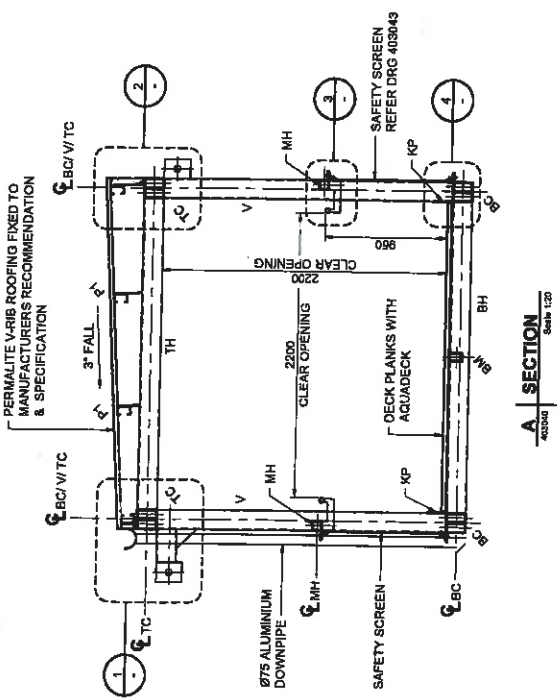
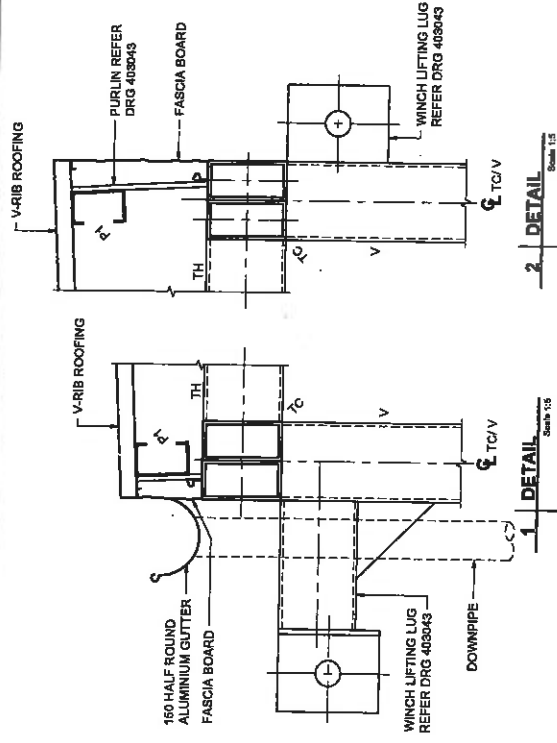
PROJECT NUMBER 00223818
SHEET TITLE FERRY FACILITY GANGWAY PLAN AND SECTIONS
SHEET NUMBER 403040

CLIENT Santos GLNG
PROJECT RG Tanna Marine Operations Terminal
LOCATION GLAOSTONE

AECOM
CONSTRUCTANT
AECOM Australia Pty Ltd
ABN 20 033 845 525
www.aecom.com

NOTES

1. FOR NOTES AND MEMBER SIZES REFER DRG 403040.



AECOM CONSULTANT
 AECOM Australia Pty Ltd
 Level 20, 602 646 625
 www.aecom.com

PROJECT
 RG Tanna Marine Operations Terminal
 GLADSTONE

CLIENT
 Santos GLNG

QGC
 A QGC Group Member

CERTIFICATION

DISCIPLINE	CENTRE	TP	NO
MARITIME	T.A.M.A.		2220
PROJECT DATA		CHECKED	APPROVED
DATUM	AUD	BURNEY	MACA M

PROJECT MANAGEMENT INITIALS

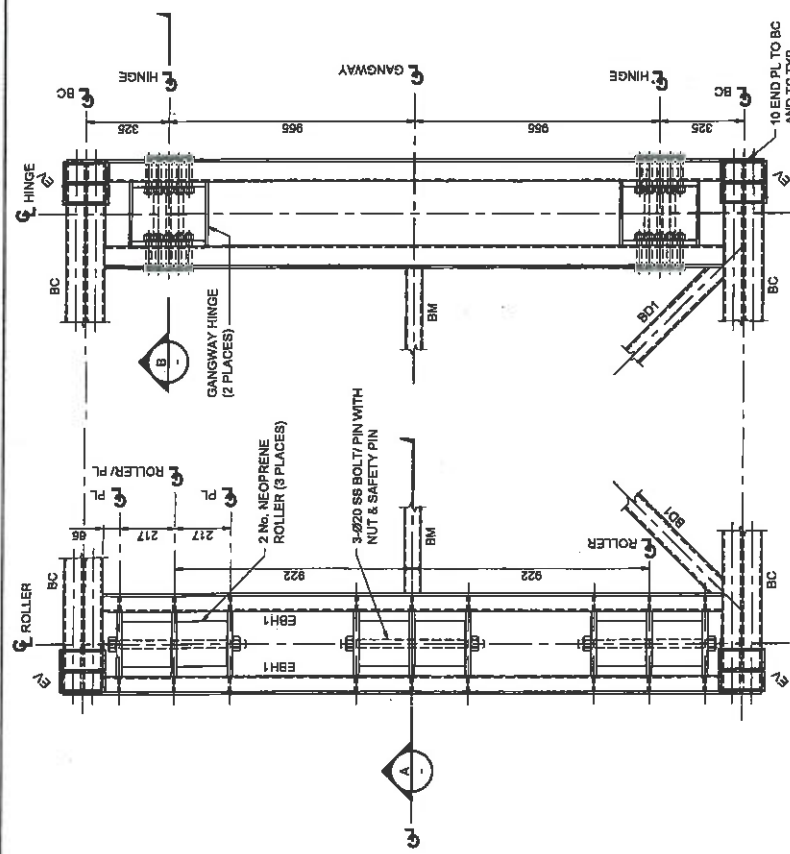
DESIGNER	CHECKED	APPROVED

RISER/REVISIONS

NO	DATE	DESCRIPTION
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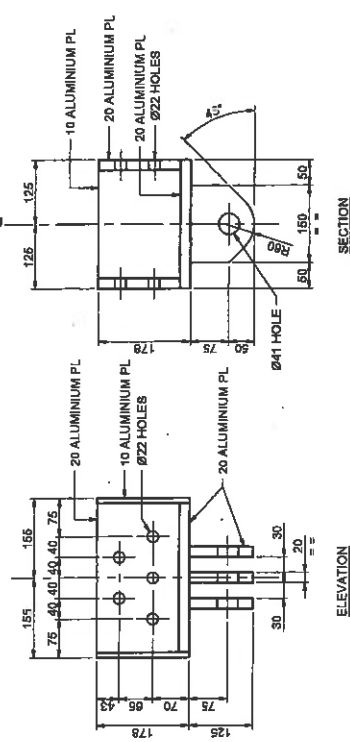
PROJECT NUMBER 00323810
SHEET TITLE FERRY FACILITY GANGWAY
DETAILS - SHEET 1

SHEET NUMBER 403041
REVISION 0



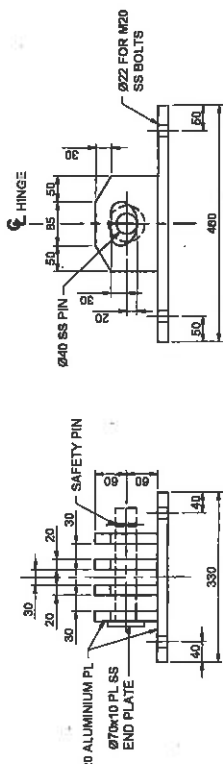
NOTES

1. FOR NOTES AND MEMBER SIZES REFER DRG 403040.



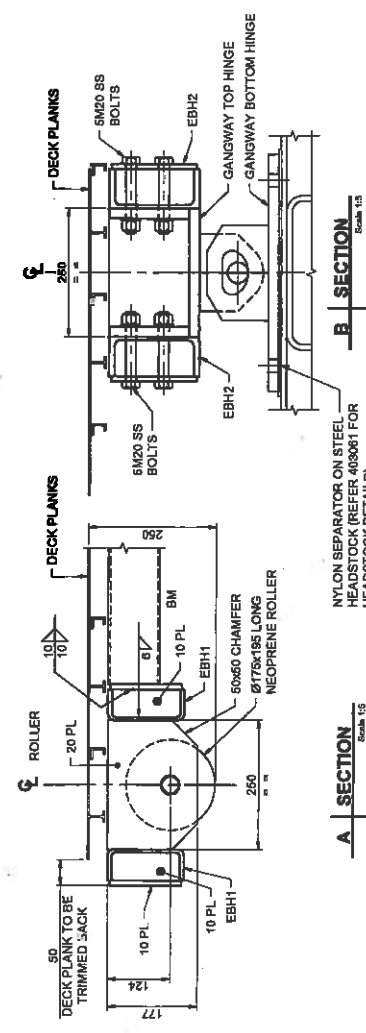
NOTE: 4.5 THK Ø80 NYLON WASHERS (OR EQUAL) TO BE INSTALLED BETWEEN MOVING PLATES.

GANGWAY TOP HINGE DETAIL
 Scale 1:5



GANGWAY BOTTOM HINGE DETAIL
 Scale 1:5

ROLLER END DETAIL
 Scale 1:10



NYLON SEPARATOR ON STEEL HEADSTOCK (REFER 403061 FOR HEADSTOCK DETAILS)

AECOM
 CONSULTANT
 AECOM Australia Pty Ltd
 A.B.N. 20 000 846 925
 www.aecom.com

PROJECT
 RG Tanna Marine
 Operations Terminal
 GLDSTONE

CLIENT
Santos
 GLNG
 a gas company partner

CERTIFICATION

DISCIPLINE	CERTIFIED	REFD NO.
SUBMITTAL	1.2/2018	222

PROJECT MANAGEMENT INITIALS

DESIGNER	CHECKED	APPROVED
DATE: 01/04/18	SURVEY	004/18

REVISION

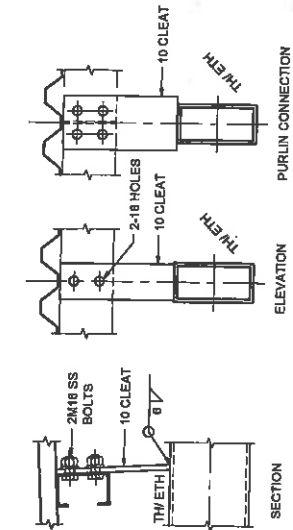
NO	DATE	DESCRIPTION
0	01/04/18	ISSUED FOR CONSTRUCTION

PROJECT NUMBER
60323818

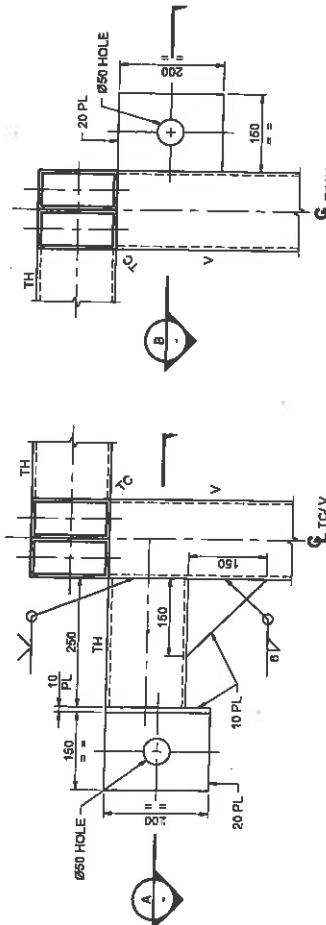
SHEET TITLE
FERRY FACILITY GANGWAY DETAILS - SHEET 2

SHEET NUMBER
403042

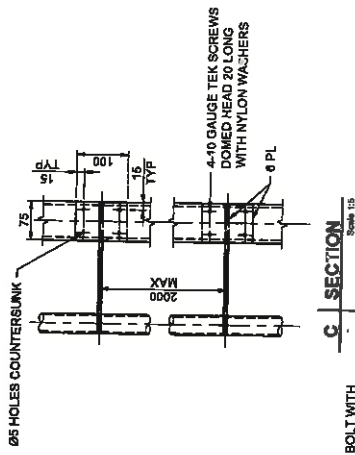
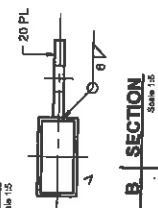
NOTES
 1. FOR NOTES AND MEMBER SIZES REFER DRGS 403040.



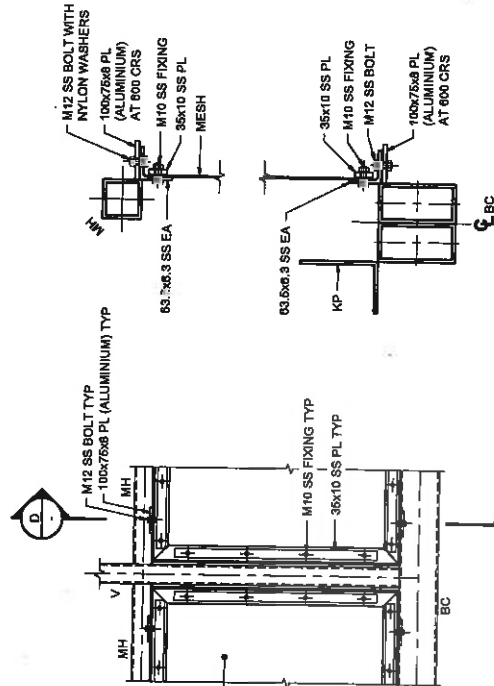
TYPICAL "P1" PURLIN CONNECTION Scale: 1:5



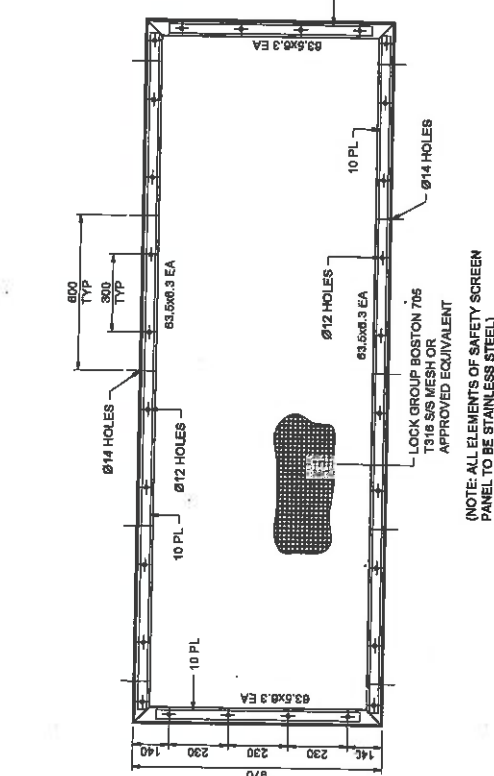
WINCH LIFTING LUGS DETAIL Scale: 1:5
 (NOTES: FOR WINCH LIFTING LUG LOCATION REFER TO TOP CHORD PLAN)



HANDRAIL DETAIL Scale: 1:5

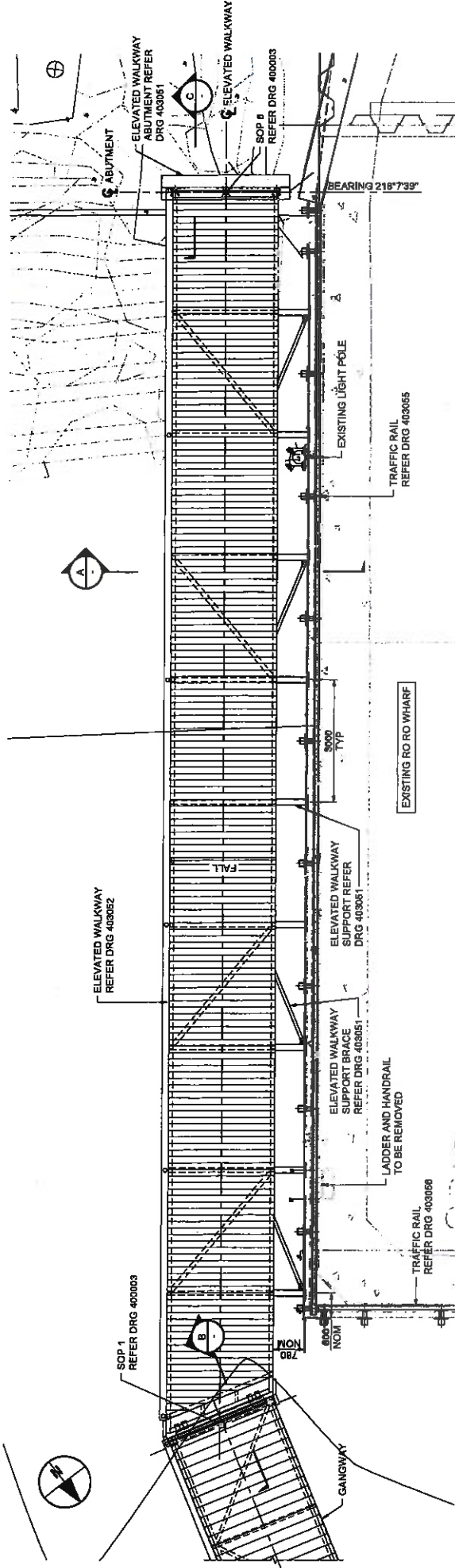


SAFETY SCREEN CONNECTION DETAIL Scale: 1:10
 (NOTES: NYLON SEPARATORS TO BE INSTALLED BETWEEN GANGWAY AND SAFETY SCREENS.)



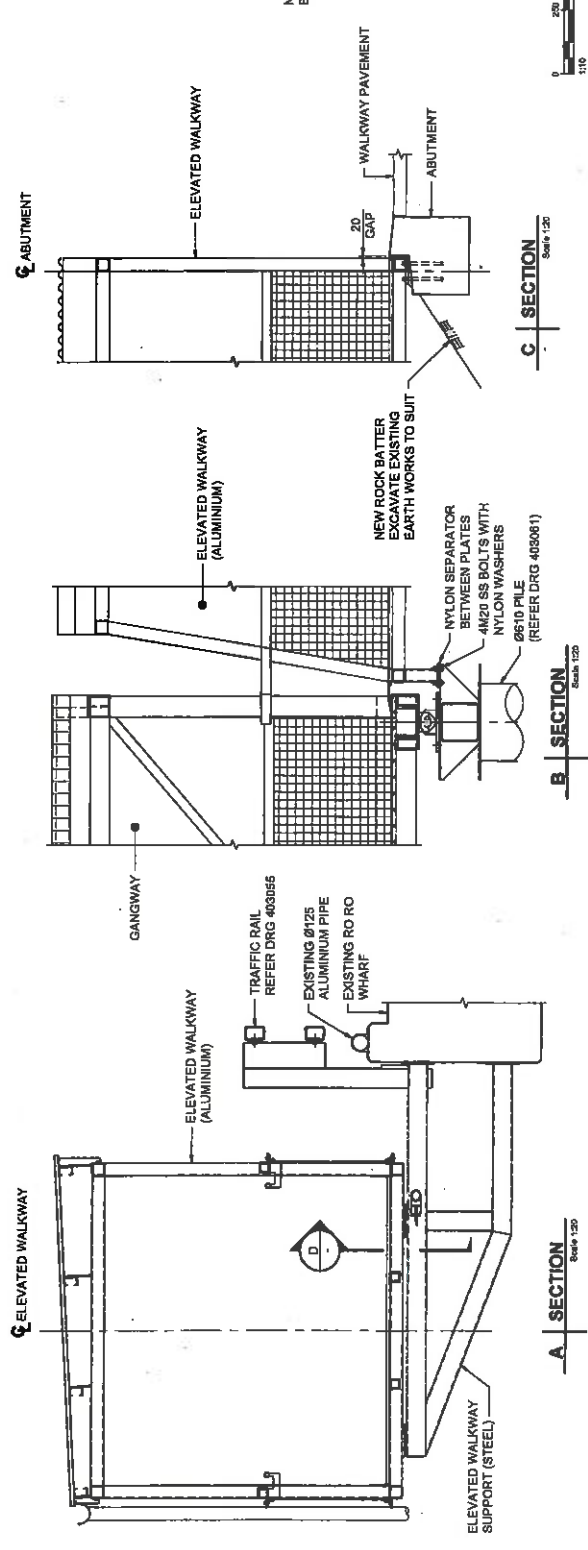
SAFETY SCREEN PANEL - ELEVATION Scale: 1:10
 (NOTE: ALL ELEMENTS OF SAFETY SCREEN PANEL TO BE STAINLESS STEEL)

<p>AECOM CONSULTANT AECOM Australia Pty Ltd Level 19, 457 Collins Street Melbourne VIC 3000 www.aecom.com.au</p>	<p>PROJECT RG Tanna Marine Operations Terminal GLADSTONE</p>	<p>CLIENT Santos GLNG A Santos Company</p>	<p>CERTIFICATION DISCIPLINE: MARITIME CERTIFIER: T. M. B. O. REFERENCE: 2383 DATE: 2014/05/19 ISSUED FOR CONSTRUCTION</p>	<p>PROJECT MANAGEMENT INITIALS DESIGNER: T. M. B. O. CHECKED: [] APPROVED: [] SURVEY: [] P.D. 08</p>	<p>CERTIFICATION ISSUE/REVISION: PROJECT NUMBER: 00523916 SHEET TITLE: FERRY FACILITY GANGWAY DETAILS - SHEET 3 SHEET NUMBER: 403043 REVISION: 0</p>
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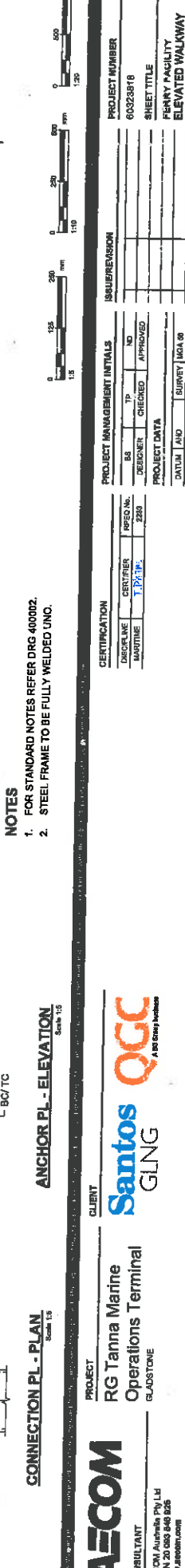
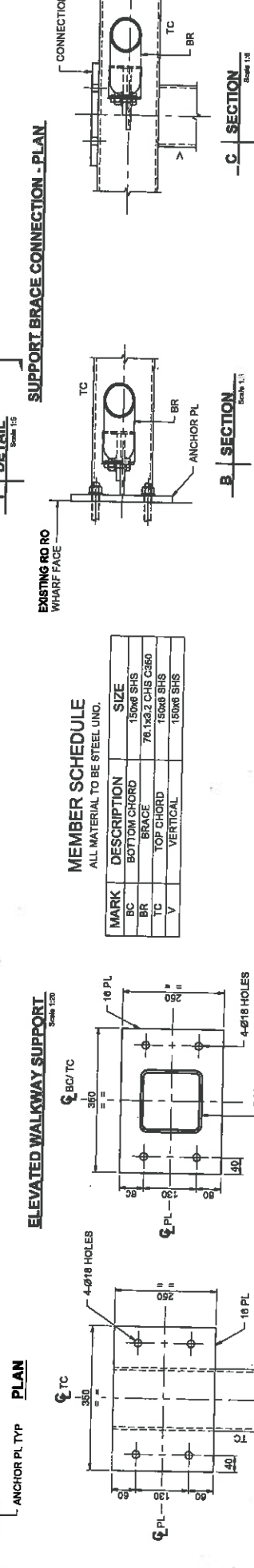
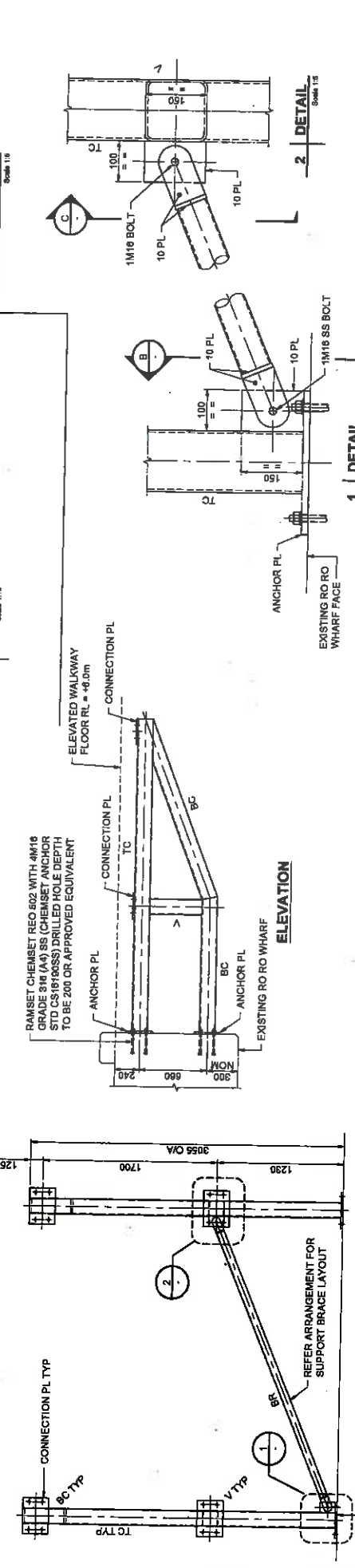
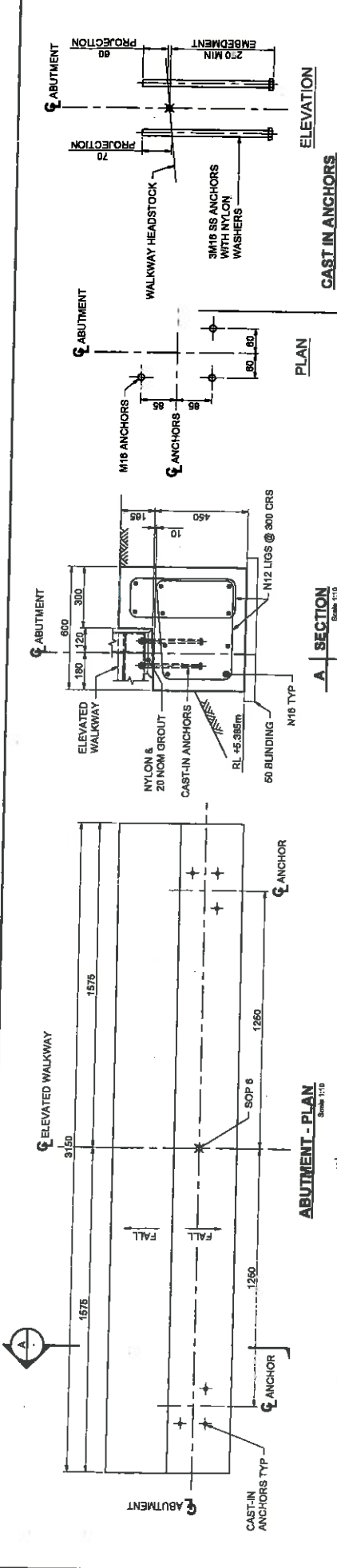


ELEVATED WALKWAY ARRANGEMENT
Scale 1:50

NOTES:
1. FOR GENERAL NOTES REFER DRG 400002.



AECOM		CLIENT											
CONSULTANT AECOM Australia Pty Ltd A.B.N. 20 033 846 025 www.aecom.com	PROJECT RG Tanna Marine Operations Terminal	DISCIPLINE MARINE	DESIGNER T. ROSS										
<table border="1"> <tr> <th>DATE</th> <th>BY</th> <th>DESCR</th> <th>CHECKED</th> <th>APPROVED</th> </tr> <tr> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> </tr> </table>		DATE	BY	DESCR	CHECKED	APPROVED						ISSUE/REVISION	PROJECT NUMBER 80322818
DATE	BY	DESCR	CHECKED	APPROVED									
<table border="1"> <tr> <th>DATE</th> <th>BY</th> <th>DESCRIPTION</th> </tr> <tr> <td> </td> <td> </td> <td> </td> </tr> </table>		DATE	BY	DESCRIPTION				SHEET TITLE FERRY FACILITY GENERAL ARRANGEMENT	SHEET NUMBER 403050				
DATE	BY	DESCRIPTION											
Santos		QCC											
GLNG		an oil company partner											



MEMBER SCHEDULE

MARK	DESCRIPTION	SIZE
BC	BOTTOM CHORD	150x6 SHS
BR	BRACE	76.1x3.2 CHS C360
TC	TOP CHORD	150x6 SHS
V	VERTICAL	150x6 SHS

ALL MATERIAL TO BE STEEL UNO.

NOTES

- FOR STANDARD NOTES REFER DRG 400002.
- STEEL FRAME TO BE FULLY WELDED UNO.



AECOM
 CONSULTANT
 AECOM Australia Pty Ltd
 Level 20, 100, 846, 826
 www.aecom.com

Santos
 GLNG

QGC
 A 100 Group Member

PROJECT: RG Tanna Marine Operations Terminal
 LOCATION: GLA0200

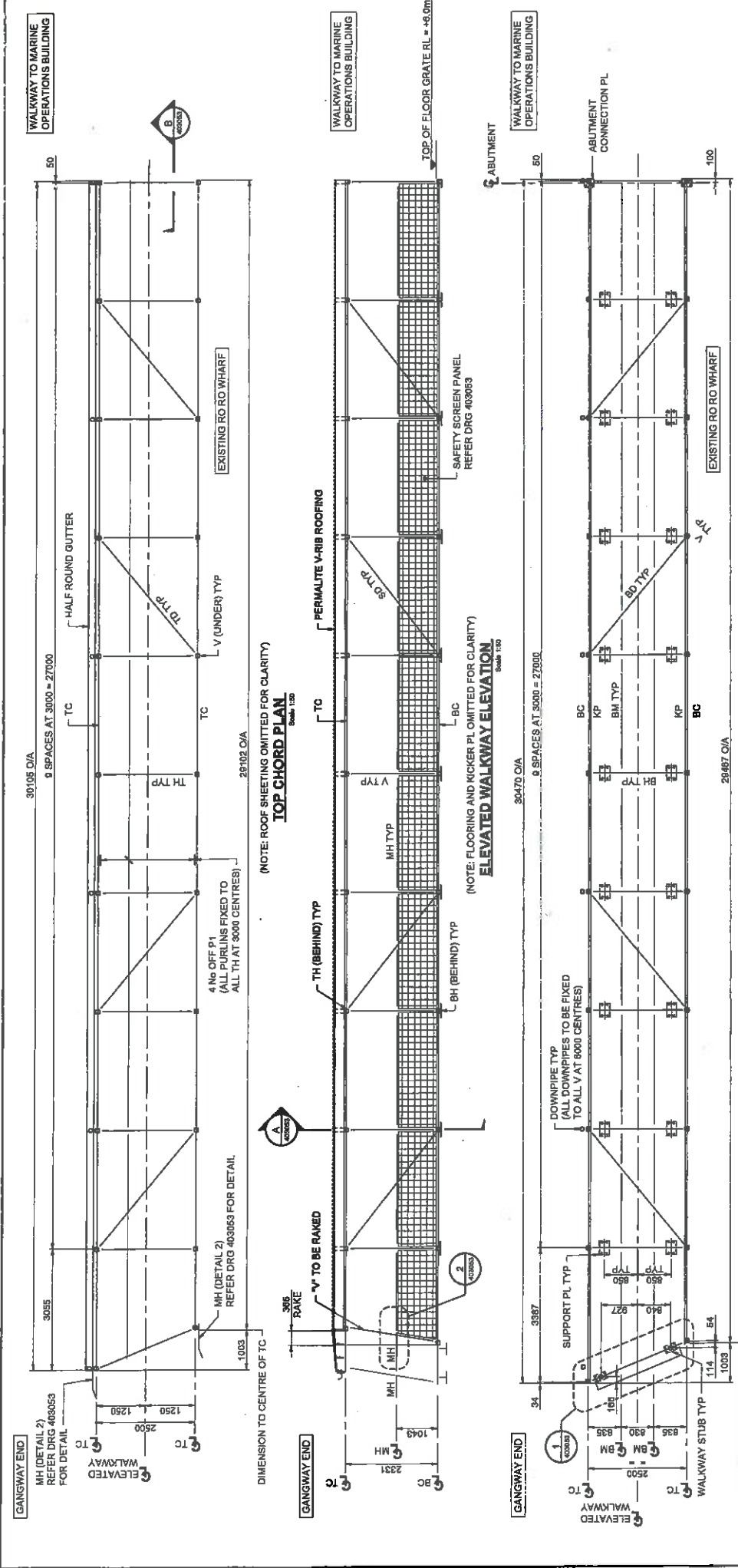
CLIENT: Santos GLNG

CERTIFICATION: [Details]

PROJECT MANAGEMENT INITIALS: [Details]

ISSUE/REVISION: [Details]

PROJECT NUMBER: 60323816
 SHEET TITLE: RHANY FACILITY ELEVATED WALKWAY DETAILS - SHEET 1
 SHEET NUMBER: 403851



MEMBER SCHEDULE
ALL MATERIAL TO BE ALUMINIUM ALLOY 6061-T5 OR 6061-T6 UNO;

MARK	DESCRIPTION	SIZE
BC	BOTTOM CHORD	100x8 SHS
BD	BOTTOM DIAGONAL	100x8 SHS
BH	BOTTOM HORIZONTAL	100x8 SHS
BM	BOTTOM MIDDLE LONGITUDINAL	76x8.2 SHS
KP	KICKER PLATE ANGLE	150x75x8 L/A
MH	MIDDLE HORIZONTAL	76x8.2 SHS
PT	PURLIN	PERMALITE AC16025 x 10 CLEAT
SD	SIDE DIAGONAL	100x8 SHS
TC	TOP CHORD	100x8 SHS
TD	TOP DIAGONAL	100x8 SHS
TH	TOP HORIZONTAL	100x8 SHS
V	VERTICAL	100x8 SHS

- NOTES**
- FOR GENERAL NOTES REFER DRG 400002.
 - ALUMINIUM ALLOY FRAME TO BE FULLY WELDED UNO.

AECOM
CONSULTANT
AECOM Australia Pty Ltd
A BN 20 095 848 625
www.aecom.com

CLIENT
RG Tanna Marine
Operations Terminal
GLASTONE

CERTIFICATION

DISCIPLINE	CERTIFIER	REF ID	228
MARTIME			

PROJECT MANAGEMENT INITIALS

DESIGNER	CHECKED	APPROVED

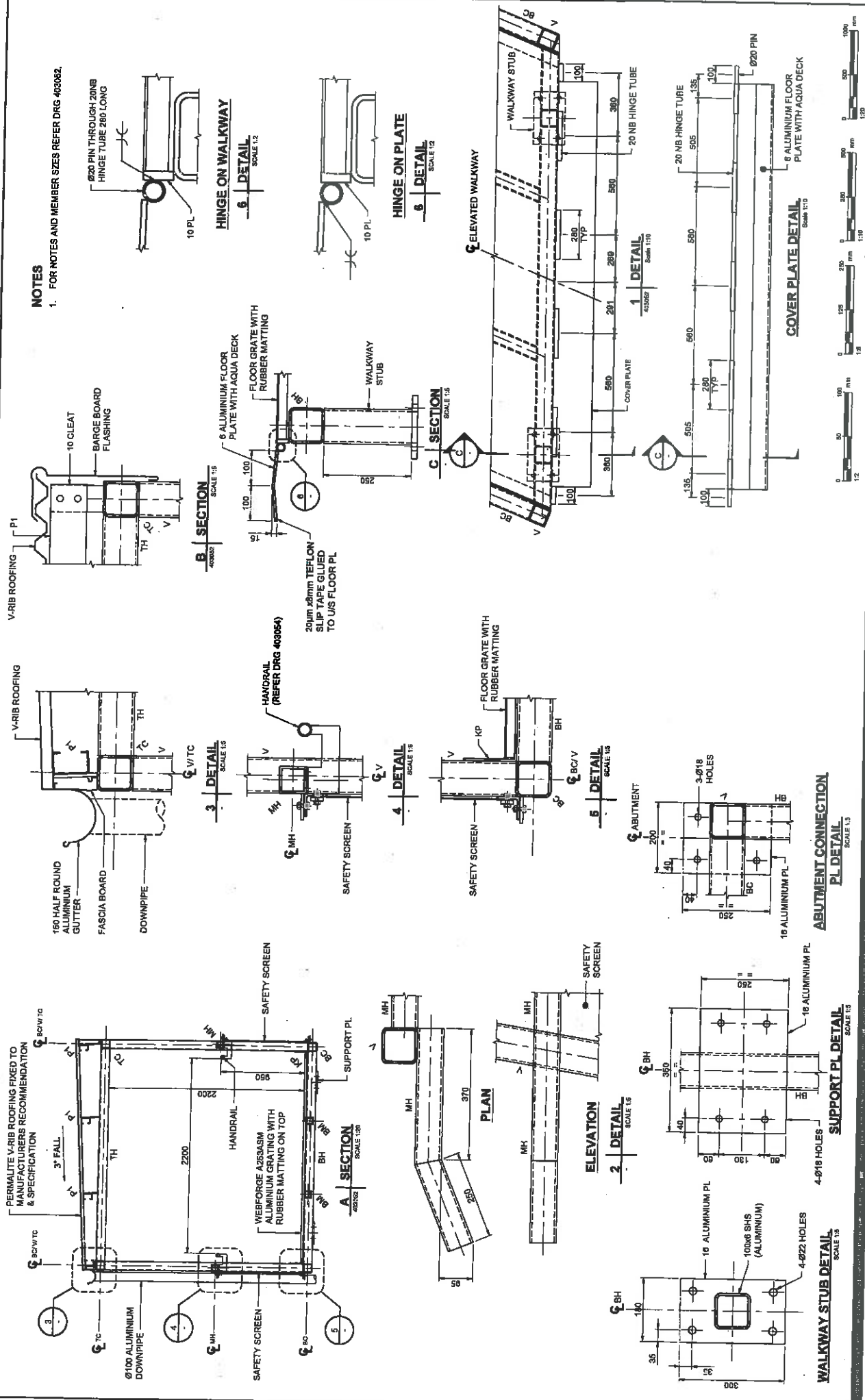
PROJECT NUMBER
40322818

SHEET TITLE
FERRY FACILITY
ELEVATED WALKWAY
DETAILS - SHEET 2

REVISION

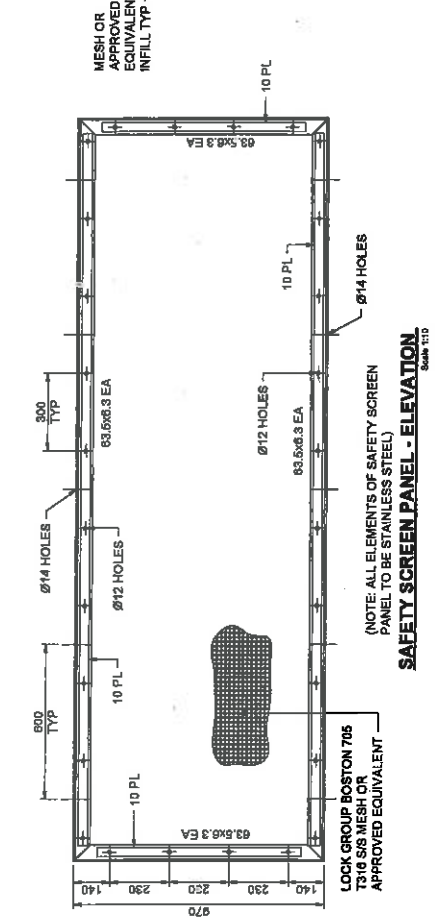
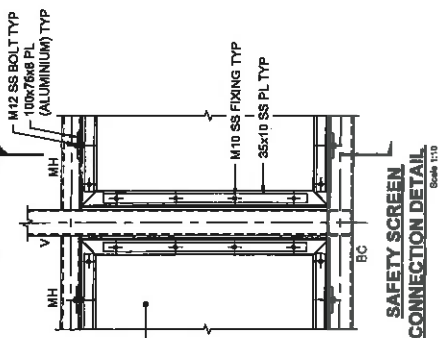
NO	DATE	DESCRIPTION
1	20/04/18	ISSUED FOR CONSTRUCTION
2		
3		

NOTES
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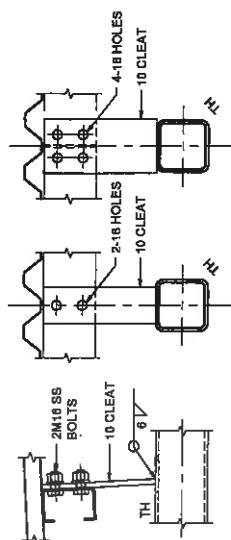
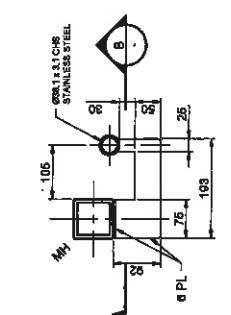
PROJECT		CLIENT	
RG Tanna Marine Operations Terminal GLADSTONE		Santos GGLING	
CONSULTANT		PROJECT MANAGEMENT INITIALS	
AECOM Australia Pty Ltd AECOM 20002 Bldg 925 www.aecom.com		DESIGNED	TO
		CHECKED	NO
		APPROVED	APPROVED
		PROJECT DATA	
DATE	ISSUED FOR CONSTRUCTION	ISSUE NO	DESCRIPTION
01/04/16	01/04/16	01	ISSUED FOR CONSTRUCTION
CERTIFICATION		PROJECT NUMBER	
DISCIPLINE	CHECKER	9023818	
MARINE	T. J. BROWN	SHEET TITLE	
		ELEVATED WALKWAY DETAILS - SHEET 3	
		SHEET NUMBER	
		403053	

NOTES
1. FOR NOTES AND MEMBER SIZES REFER DRG 403062.



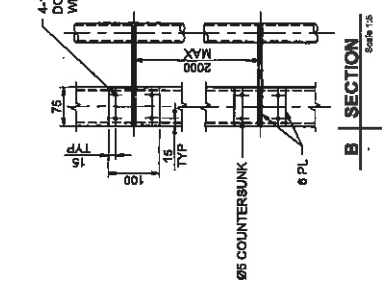
(NOTES: NYLON SEPARATORS TO BE INSTALLED BETWEEN GANGWAY AND SAFETY SCREENS)

A SECTION
Scale 1:6



4-10 GAUGE TEK SCREWS DOMED HEAD 20 LONG WITH NYLON WASHERS

B SECTION
Scale 1:5



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AECOM Australia Pty Ltd
A/BN 20 095 645 625
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PROJECT
RG Tanna Marine
Operations Terminal
GLUSTONE

CLIENT
Santos
GLNG
A QGC member

CERTIFICATION

DISCUSS	CERTIFY	PREPARE	ISSUE
MORTINE	L. P. MORTINE	ZED	ZED

PROJECT DATA

STATUS	NO	DATE	DESCRIPTION
ISSUED FOR CONSTRUCTION			

PROJECT MANAGEMENT INITIALS

BA	TP	NO
DESIGNER	CHECKED	APPROVED

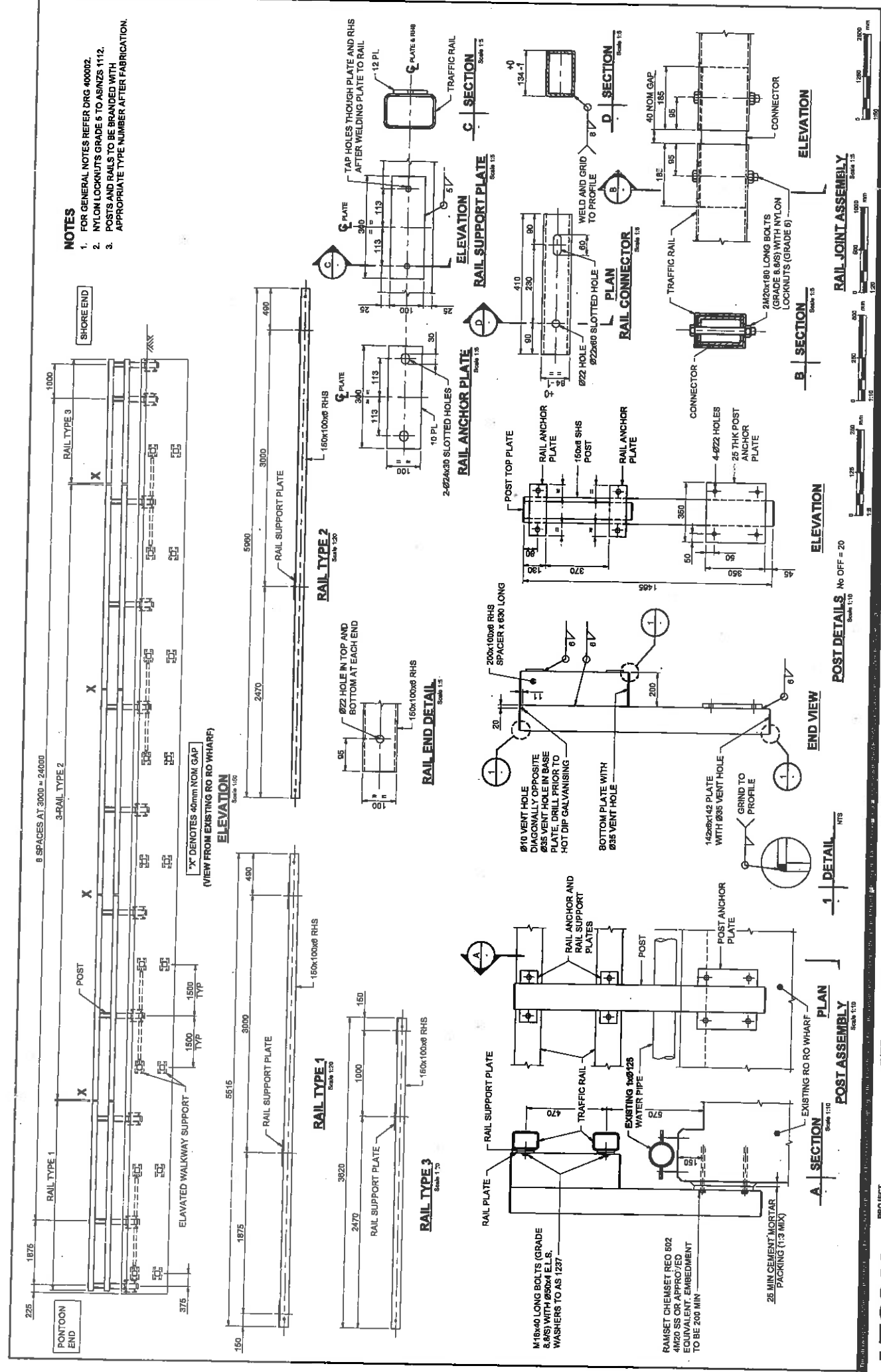
PROJECT NUMBER
60220818

SHEET TITLE
FERRY FACILITY
ELEVATED WALKWAY
DETAILS - SHEET 4

SHEET NUMBER
403064

REVISION
0

1. FOR GENERAL NOTES REFER DRG 400002.
 2. NYLON LOCKNUTS GRADE 6 TO AS/NZS 1112.
 3. POSTS AND RAILS TO BE BRANDED WITH APPROPRIATE TYPE NUMBER AFTER FABRICATION.



PROJECT MANAGEMENT INITIALS		ISSUE/REVISION	
DESIGNER	CHECKED	APPROVED	DATE
T. J. JAY			

CERTIFICATION		PROJECT MANAGEMENT INITIALS	
DISCIPLINE	CERTIFIER	PREPARED	APPROVED
MARITIME	T. J. JAY		

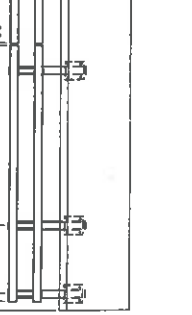
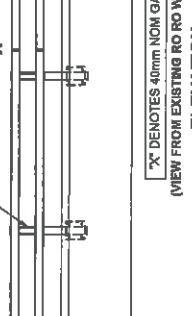
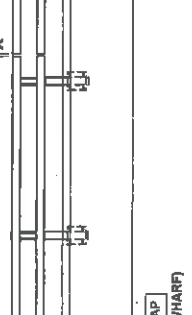
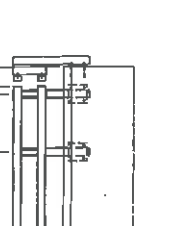
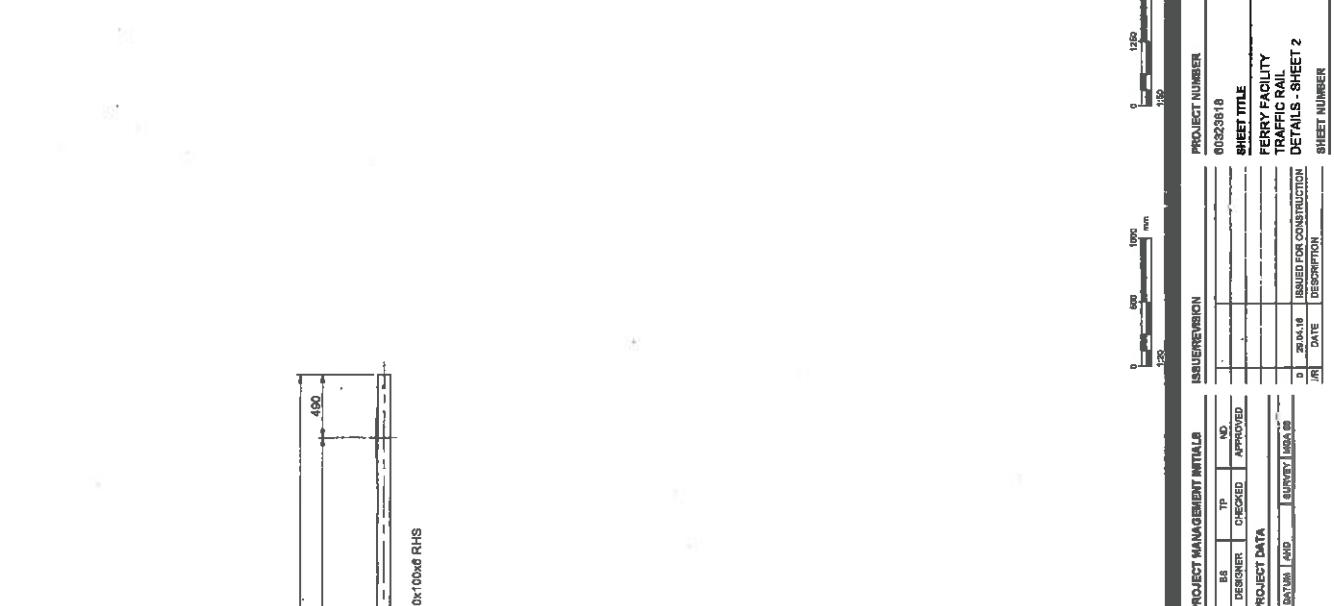
PROJECT DATA		REVISION	
DATE	DESCRIPTION	NO.	DESCRIPTION

CLIENT		PROJECT	
NAME	ADDRESS	NAME	ADDRESS
RG Tanna Marine Operations Terminal	GLAOSTONE	RG Tanna Marine Operations Terminal	GLAOSTONE

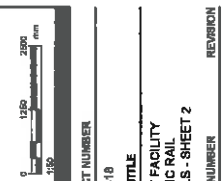
CONSULTANT		PROJECT NUMBER	
COMPANY	ADDRESS	NO.	DESCRIPTION
AECOM Australia Pty Ltd	4/111 201 Street	60529018	

SHEET TITLE		REVISION	
NO.	DESCRIPTION	NO.	DESCRIPTION
1	ISSUED FOR CONSTRUCTION		

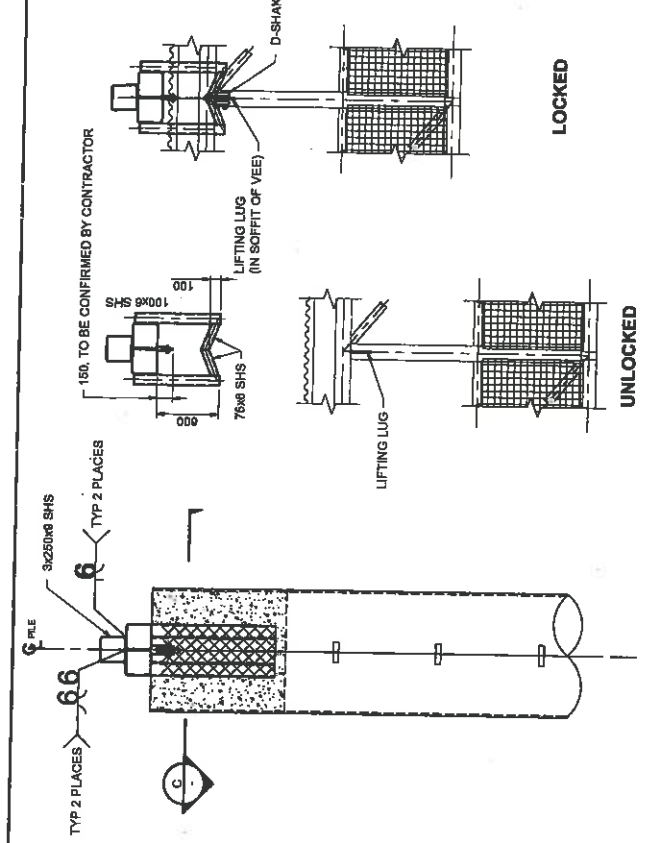
- NOTES**
- FOR GENERAL NOTES REFER DRG 400002.
 - FOR DETAILS REFER DRG 403065.



'X' DENOTES 40mm NOM GAP
(VIEW FROM EXISTING RO RO WHARF)



ISO A1 594x841 & 841mm

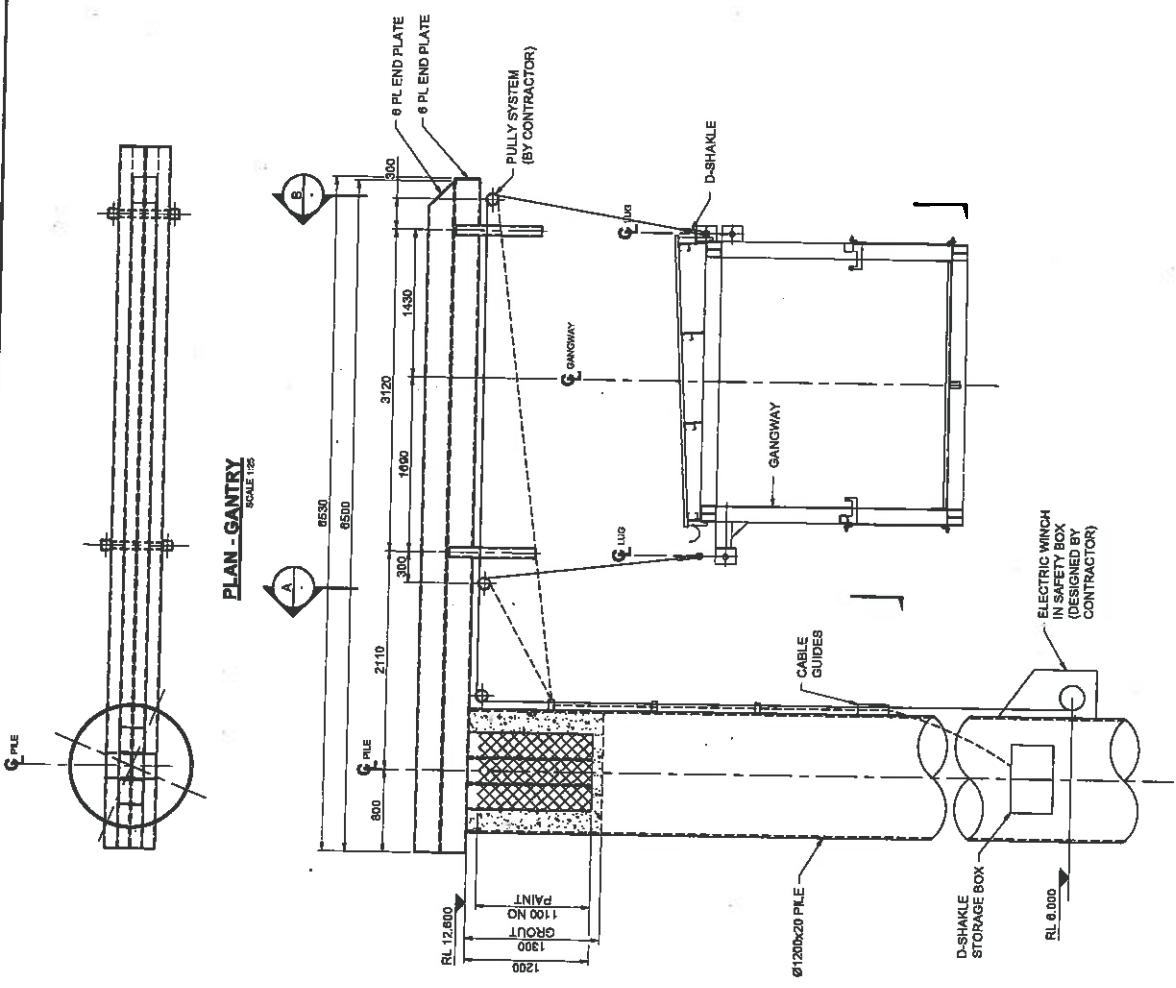


B SECTION
SCALE 1:25

A SECTION
SCALE 1:25

C SECTION
SCALE 1:25

NOTES
1. FOR GENERAL NOTES REFER DRG 400002



AECOM
CONSULTANT
AECOM Australia Pty Ltd
100 Victoria Road, Suite 201
Melbourne, VIC 3000
www.aecom.com

PROJECT
RG Tanna Marine
Operations Terminal
GLAOSTONE

CLIENT
Santos
GLNG
A long term partnership

CERTIFICATION

DRAWN	CHECKED	DESIGNED	APPROVED
MARTINE	T. PAROL	EDU	

PROJECT MANAGEMENT INITIALS

COV	TP	NO
CHECKED	CHECKED	APPROVED

PROJECT DATA

DATE	NO	ISSUED FOR	NO
		CONSTRUCTION	

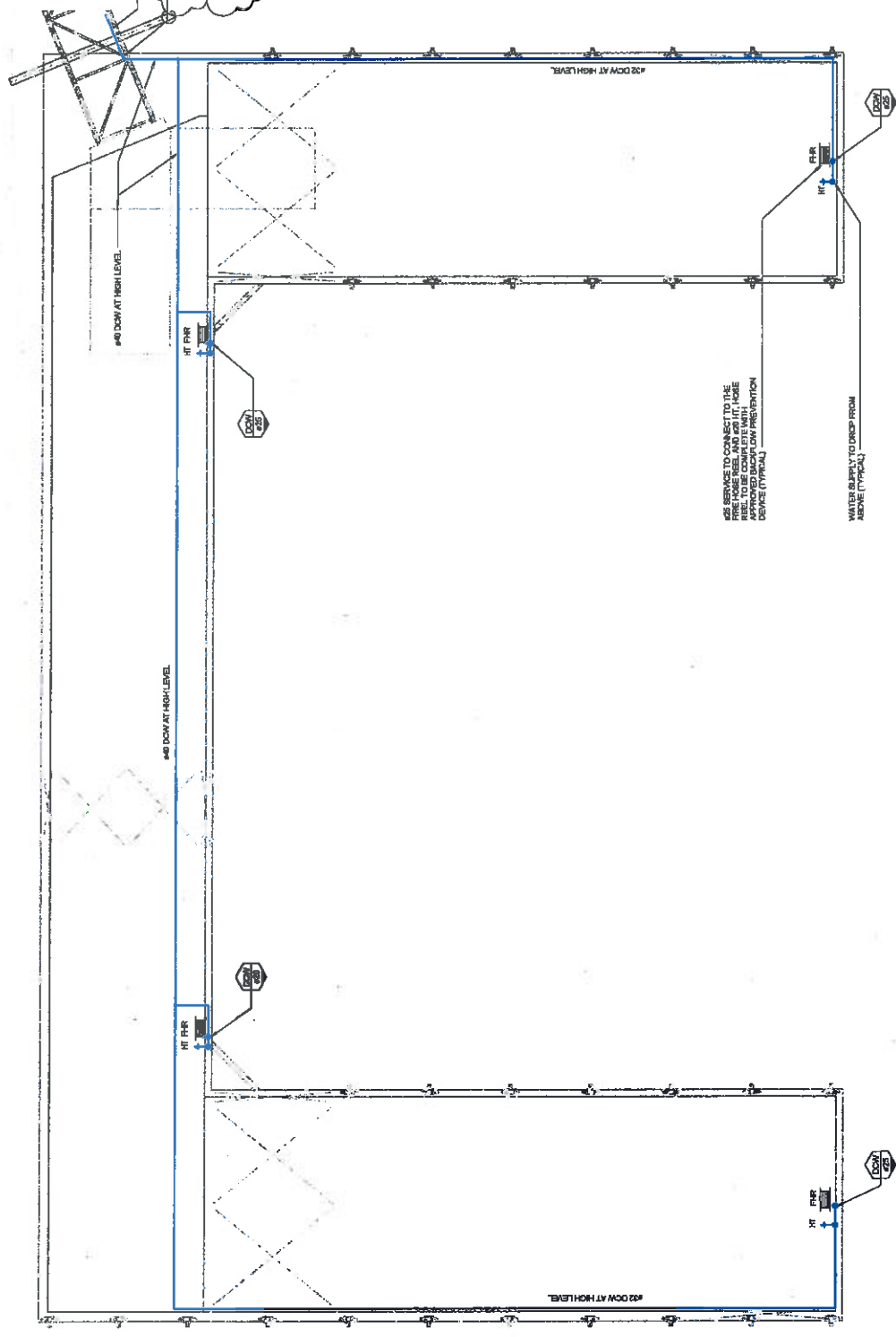
ISSUE/REVISION

PROJECT NUMBER	03023818
SHEET TITLE	GANTRY FACILITY
PROJECT FACILITY	GANTRY FACILITY
ELEVATION AND DETAILS	
ISSUED FOR CONSTRUCTION	
DATE	
DESCRIPTION	
SHEET NUMBER	403060
REVISION	0

Appendix E-2 Ferry Facility Construction Drawings – Hydraulic & Electrical Services

Marine Operations Terminal Drawing Title	60323818-SHT Reference	Revision Number
FERRY FACILITY WATER SUPPLY	404100	1
POWER LAYOUT	405100	0
LIGHTING LAYOUT	405110	0
SECURITY LAYOUT	405120	0
CONTAINMENT LAYOUT	405150	0
DISTRIBUTION BOARD SCHEMATIC	405410	0
EMERGENCY LIGHTING SCHEMATIC	405430	0
CCTV SCHEDULE	405460	0

REF: TO REMAIN
 TRAP-POCKET CAPABILITY
 100% STAINLESS STEEL BALL
 FILLABLE IN CASE OF WATER
 BACKFLOW
 DISCONNECT AND THESE FLEXIBLE
 HOSES SHOULD BE LOCATED AT
 THE END OF THE PIPEWORK
 OF VALVE & TO ALLOW
 PERIODIC MAINTENANCE CYCLES



PROJECT NUMBER
 0022816
 SHEET TITLE
 MARINE OPERATIONS TERMINAL
 FERRY FACILITY WATER SUPPLY
 SHEET NUMBER
 404100
 REVISION

NO.	DATE	DESCRIPTION
1	20/07/16	REVISED CONSTRUCTION
2	24/04/16	ISSUED FOR CONSTRUCTION

PROJECT MANAGEMENT INITIALS	
GP	NO
DESIGNER	CHECKED
DRAWN	APPROVED
DATE	NO.
BY	NO.
DATE	NO.

ISSUE/REVISION	
NO.	DESCRIPTION
1	REVISED CONSTRUCTION
2	ISSUED FOR CONSTRUCTION

PROJECT DATA	
DATE	NO.
BY	NO.
DATE	NO.

PROJECT
 RG Tanna Marine
 Operations Terminal
 GLADSTONE

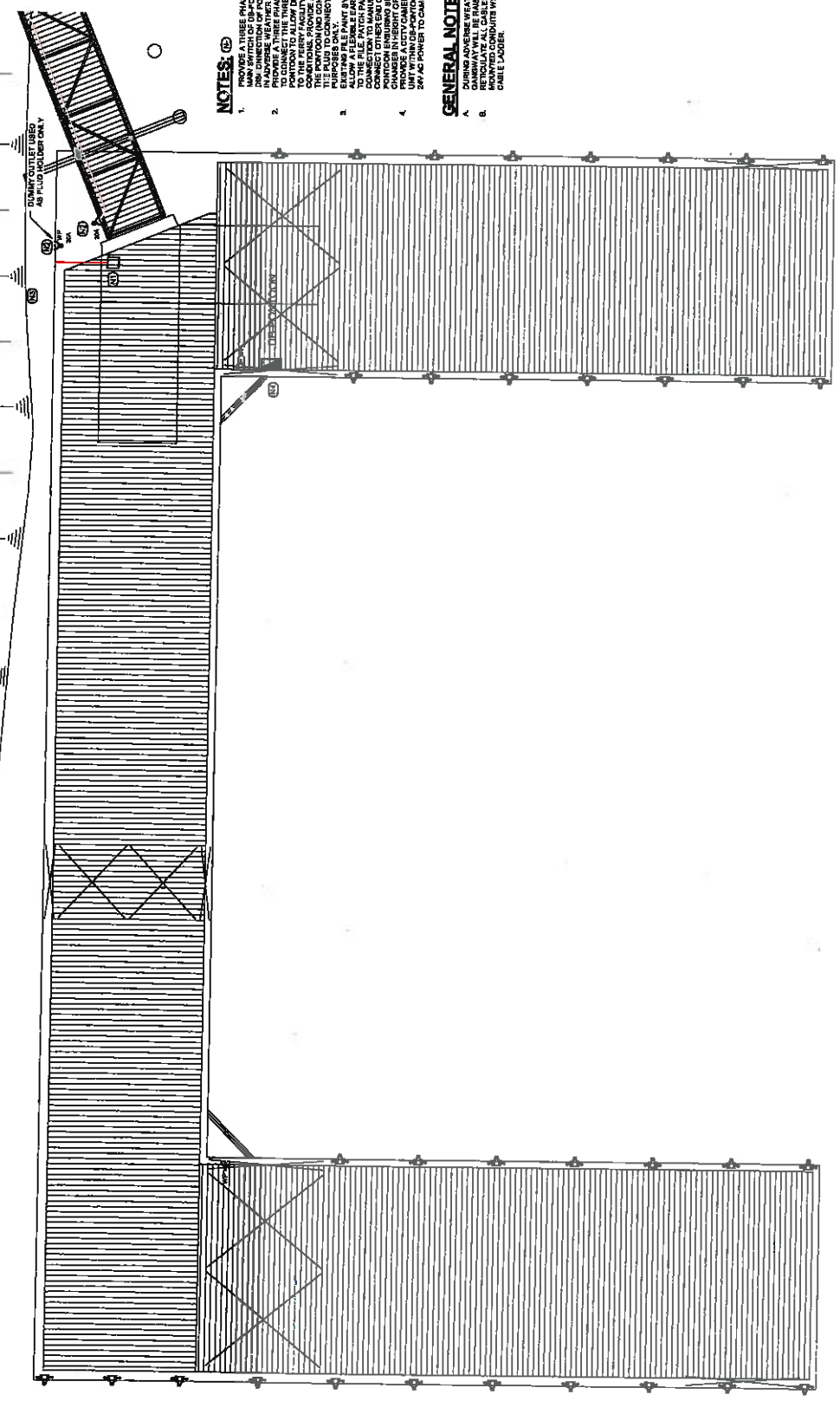
CLIENT
Santos
 GLNG
 A refinery business

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 A.B.N. 20 082 348 225
 www.aecom.com

PROJECT NUMBER
 0022816
 SHEET TITLE
 MARINE OPERATIONS TERMINAL
 FERRY FACILITY WATER SUPPLY
 SHEET NUMBER
 404100
 REVISION



ISO A1 55mm x 84mm



- NOTES:**
1. PROVIDE A THREE PHASE PLANT CONNECTED TO THE MAIN SUPPLY AND TO ALLOW FOR FUTURE FACILITY IN ADVERSE WEATHER CONDITIONS. PROVIDE A WAY TO CONNECT THE THREE PHASE PLANT FROM THE MAIN SUPPLY TO THE LOW DISCONNECT OF POWER CONDITIONS. PROVIDE A THREE PHASE OUTLET ON THE PLANT TO CONNECT TO THE PROTECTION PURPOSES ONLY.
 2. PROVIDE A FLEXIBLE EARTH CABLE TO BE CONNECTED TO THE MAIN SUPPLY SYSTEM AFTER CONNECTION TO THE MAIN SUPPLY SYSTEM. CONNECT OTHER END OF EARTH CABLE TO THE MAIN SUPPLY SYSTEM. PROVIDE A LENGTH FOR CHANGE IN HEIGHT OF THE TOWER.
 3. PROVIDE A CCTV CAMERA POWER OR DISTRIBUTION SYSTEM TO THE MAIN SUPPLY SYSTEM. PROVIDE AC POWER TO CAMERA (12 TO 24) INCLUDE

- GENERAL NOTES:**
- A. DURING ADVERSE WEATHER CONDITIONS THE CABLES WILL BE RAISED.
 - B. PROVIDE A WAY TO CONNECT THE SURFACE MOUNTED CONDUITS WHERE NOT INDICATED IN CABLE LAYOUT.

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PROJECT MANAGEMENT INITIALS

PREPARED	CHECKED	APPROVED

PROJECT DATA

DATUM	AND	SURVEY	AREA

IS SUPERVISION

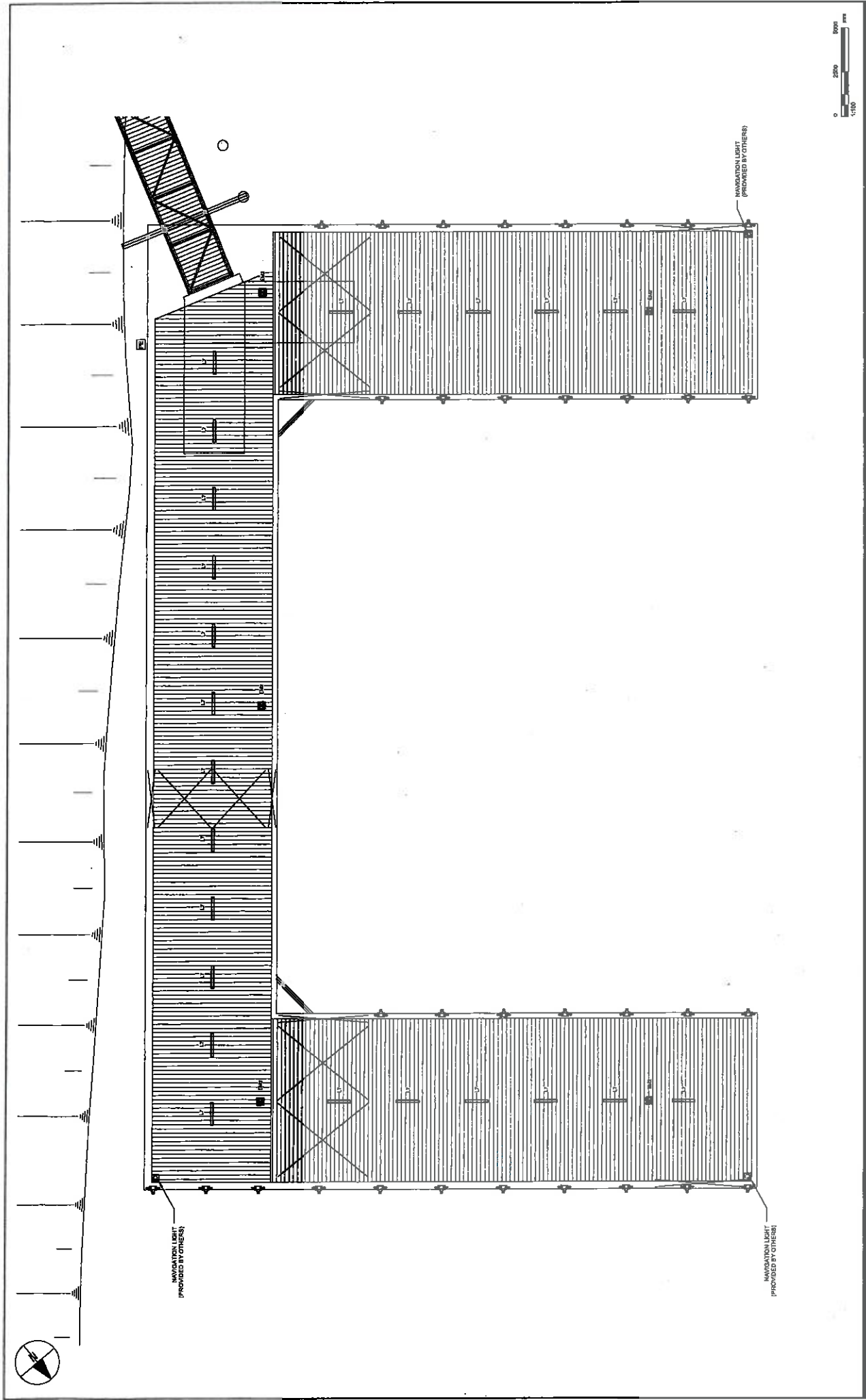
NO.	REVISION	DATE	DESCRIPTION

PROJECT NUMBER
00322618

SHEET TITLE
MARINE OPERATIONS TERMINAL
POWER LAYOUT

SHEET NUMBER
465100

REVISION
0



PROJECT NUMBER: 00328916
 SHEET TITLE: MACHINE OPERATIONS TERMINAL LIGHTING LAYOUT
 SHEET NUMBER: 405110
 REVISION: 0

ISSUE/REVISION	DATE	DESCRIPTION
0		ISSUED FOR CONSTRUCTION

PROJECT MANAGEMENT INITIALS	
P.J. DEPIER	N.D. APPROVED
S.M. CHECKED	

PROJECT DATA	
DATUM	AVC
INVEST	M&A 08

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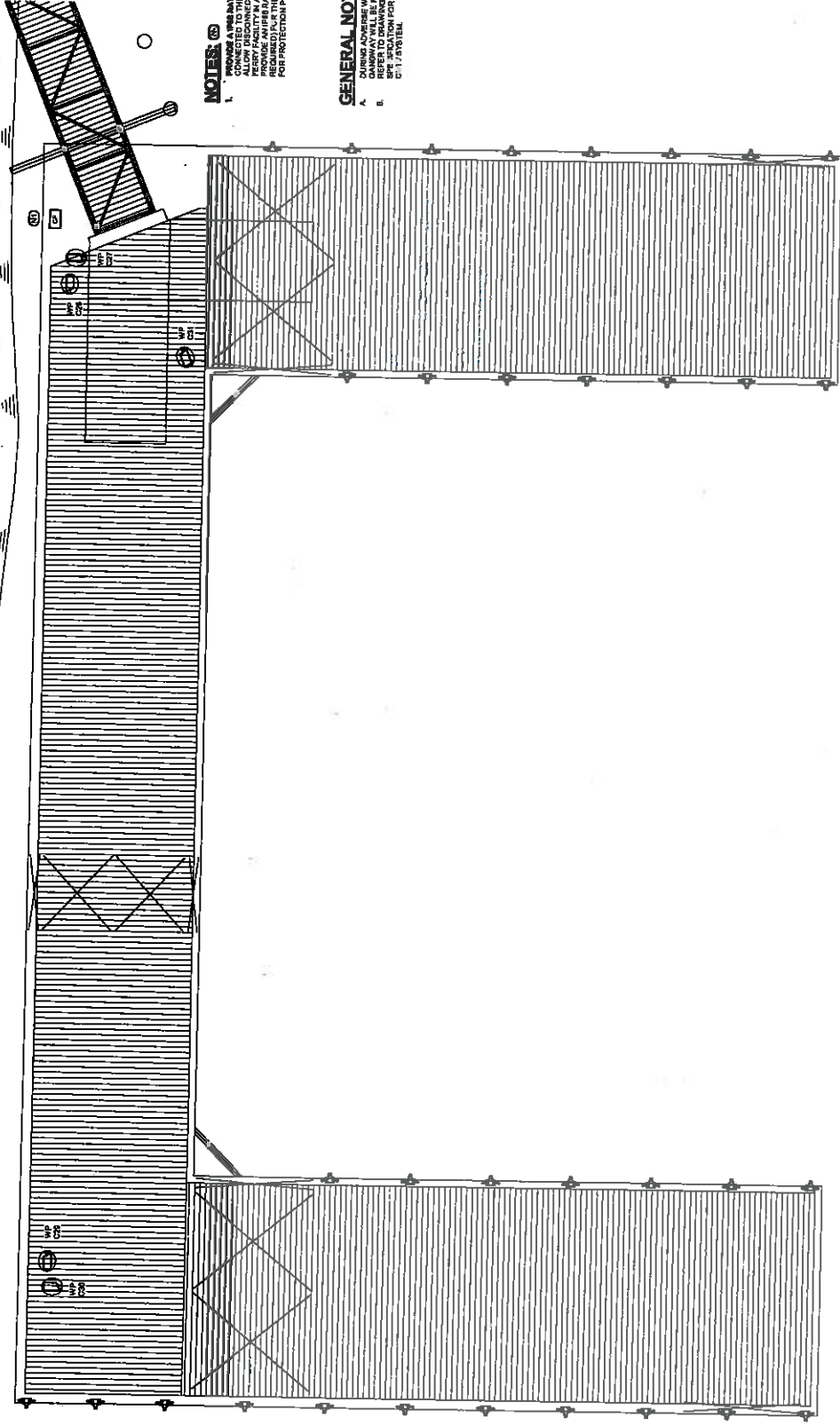
PROJECT: **RG Tanna Marine Operations Terminal**
 GLACSTONE

CLIENT: **Santos**
 GLNG

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 A gas company business



100 A1 85mm x 85mm



NOTES:

- PROVIDE A PRE-INSTALLED PIPES DISCONNECT CONNECTED TO THE CITY CAMERA ROBOT TO THE PERRY FACILITY IN ADVERSE WEATHER CONDITIONS. REVIEW AND MAINTAIN OUTLET AND CONNECTIONS. REQUIRED FOR PROTECTION PART 3053 ONLY.

GENERAL NOTES:

- ADVISE WEATHER CONDITIONS THE REFER TO DRAWING 2006 AND THE C.I.T. SYSTEM FOR FURTHER DETAILS OF THE



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CLIENT
Santos GLNG
OQGC A QGC Group business

PROJECT MANAGEMENT INITIALS

NO.	NAME	DATE	NO.	NAME	DATE

PROJECT DATA

DATE	BY	DESCRIPTION

SUBREVISION

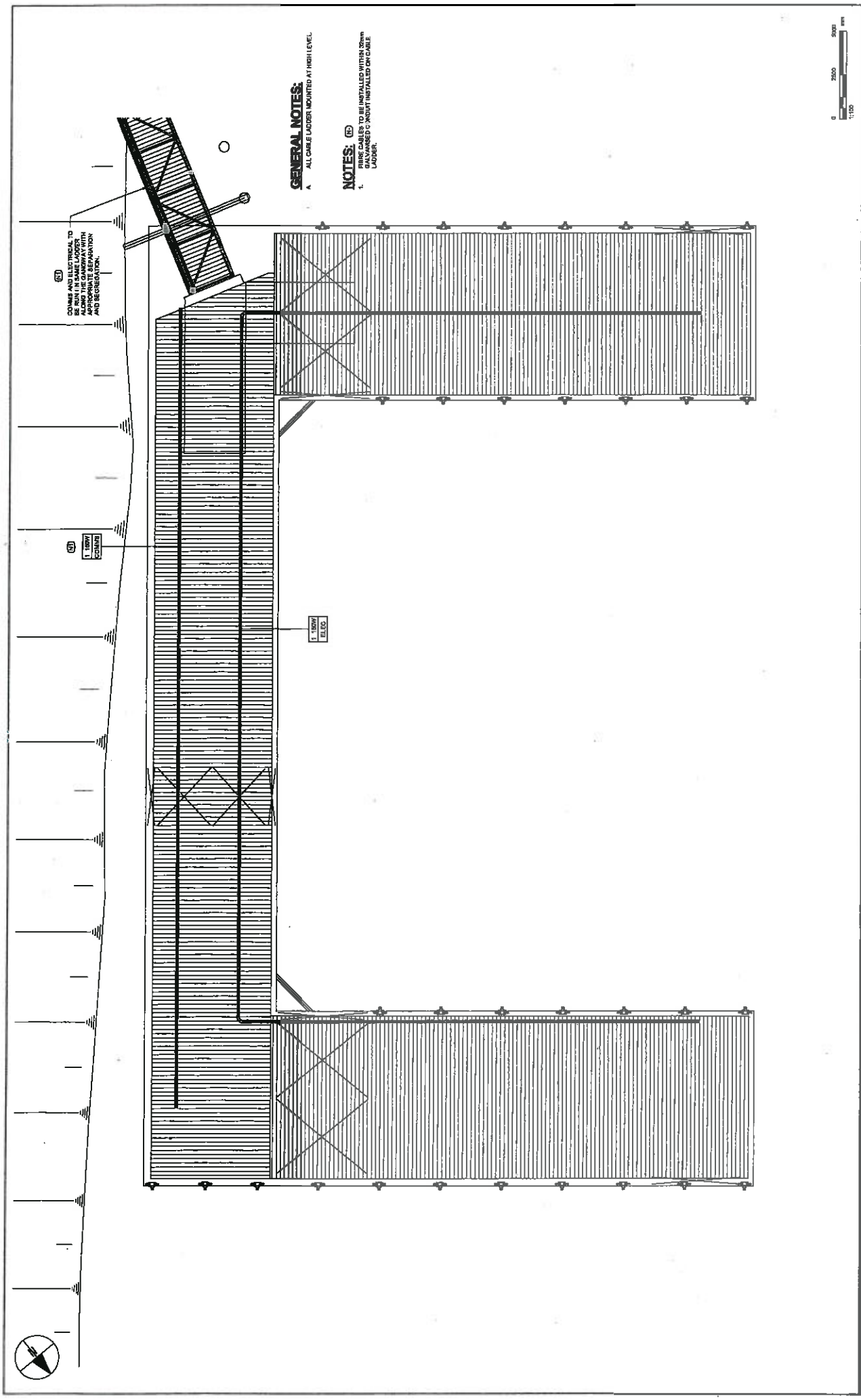
NO.	DATE	DESCRIPTION

PROJECT NUMBER
00322818

SHEET TITLE
MARINE OPERATIONS TERMINAL
SECURITY LAYOUT

SHEET NUMBER
405120

REVISION
0



GENERAL NOTES:
 A. ALL CABLE LADDERS MOUNTED AT HIGH LEVEL.

NOTES:
 1. FIRE CABLES TO BE INSTALLED WITHIN 20mm OF THE EXISTING CABLE LADDER.

NEW ELECTRICAL COMING AND ELECTRICAL TO BE INSTALLED WITHIN 20mm OF THE EXISTING CABLE LADDER.

NEW ELECTRICAL COMING AND ELECTRICAL TO BE INSTALLED WITHIN 20mm OF THE EXISTING CABLE LADDER.

NEW ELECTRICAL COMING AND ELECTRICAL TO BE INSTALLED WITHIN 20mm OF THE EXISTING CABLE LADDER.

PROJECT NUMBER: 60323818
SHEET TITLE: MARINE OPERATIONS TERMINAL CONTAINMENT LAYOUT
SHEET NUMBER: 405160
REVISION: 0

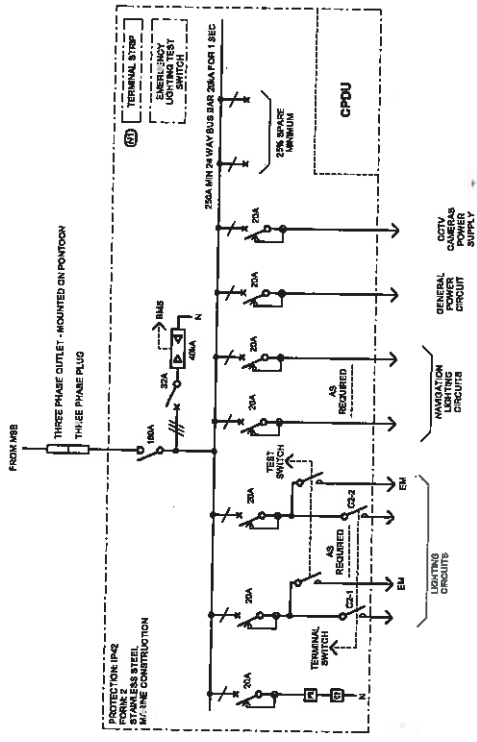
ISSUE/REVISION	DATE	DESCRIPTION
C	20-04-19	ISSUED FOR CONSTRUCTION
B		
A		

PROJECT MANAGEMENT INITIALS		PROJECT DATA	
P.S.	S.M.	I.D.	A.P.P.R.O.V.E.D.
DRAWN	CHECKED	SURVEY	ISSUED
DATE	DATE	DATE	DATE

CLIENT: Santos GLNG
PROJECT: RG Tanna Marine Operations Terminal GLADSTONE

CONSULTANT: AECOM
 AECOM Australia Pty. Ltd.
 ALBION, 2000 846 000
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DISTRIBUTION BOARD - DB PONTOON
SCALE: N.T.S.

NOTES:

- PROVIDE SUITABLE RIBBED TERMINAL STRIP FOR FINAL POINT OF CONNECTION. MAKE ALLOWANCES IN TERMINAL STRIP LENGTH FOR FUTURE CONNECTIONS (MINIMUM 50MM SPACE).

GENERAL NOTES:

- ALL CABLES INTO DISTRIBUTION BOARDS SHALL BE BOTTOM ENTRY.
- CONDUITS SHALL BE PROTECTED TO PRODUCE CABLES WITH POSITIVE CIRCUIT BREAKERS.
- ALL CIRCUIT BREAKERS ARE RATED AT 50A.

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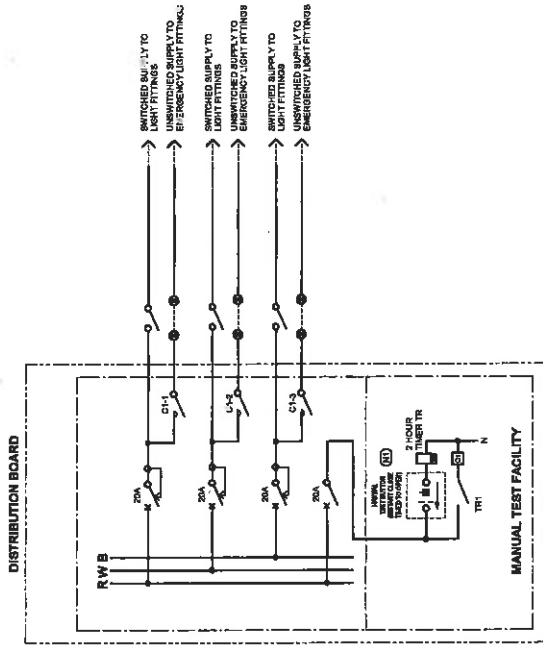
PROJECT
RG Tanna Marine
Operations Terminal
GLADSTONE

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PROJECT MANAGEMENT INITIALS			
DESIGNER	CHECKED	APPROVED	DATE

ISSUE/REVISION	
NO.	DESCRIPTION

PROJECT NUMBER	60323816
SHEET TITLE	MARINE OPERATIONS TERMINAL DISTRIBUTION BOARD SCHEMATIC
SHEET NUMBER	405410
REVISION	



EMERGENCY AND EXIT LIGHTING SCHEMATIC - DB PONTOON
SCALE: N.T.A.

NOTES: (C)
1. SWITCHES TO ALLOW OPERATION OF ALL THREE TEST BUTTONS (ON / OFF / COMMON SERVICES) BY VIA A CONTROL SIGNAL WHEN ANY TEST BUTTON IS PRESSED.

GENERAL NOTES:

ALL ELECTRICAL AND ELECTRONIC COMPONENTS THAT ARE PROVIDED AND AN EARTH TERMINAL SHALL BE SUPPLIED.

PROJECT NUMBER	60028818
SHEET TITLE	MARINE OPERATIONS TERMINAL EMERGENCY LIGHTING SCHEMATIC
PROJECT NUMBER	405430
REVISION	0

DESIGNER	CHECKED	APPROVED
DATE	DATE	DATE
BY	BY	BY
DATE	DATE	DATE

P.B.	A.M.	M.D.
DESIGNER	CHECKED	APPROVED
PROJECT DATA		
DATE	DATE	DATE
BY	BY	BY
DATE	DATE	DATE

PROJECT MANAGEMENT INITIALS			
DESIGNER	CHECKED	APPROVED	
DATE	DATE	DATE	DATE
BY	BY	BY	BY
DATE	DATE	DATE	DATE

PROJECT	RG Tanna Marine Operations Terminal
CLIENT	Santos GLNG
PROJECT	GLASTONE

PROJECT	RG Tanna Marine Operations Terminal
CLIENT	Santos GLNG
PROJECT	GLASTONE

PROJECT	RG Tanna Marine Operations Terminal
CLIENT	Santos GLNG
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CLIENT	Santos GLNG
PROJECT	GLASTONE

PROJECT	RG Tanna Marine Operations Terminal
CLIENT	Santos GLNG
PROJECT	GLASTONE

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CLIENT	Santos GLNG
PROJECT	GLASTONE

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CAMERA NUMBER	LOCATION	CAMERA TYPE (FIXED OR PTZ)	CAMERA MANUFACTURER	CAMERA MODEL	RECORDING RATE	FIELD OF VIEW	COMMS BACK ORIGIN	COMMS CONNECTION (FIBRE OR CAT5)	COMMS CABLE RETICULATION	POWER SOURCE ORIGIN	LOCATION OF 24V AC POWER SUPPLY	POWER CABLE RETICULATION
C27	PONTOON	FIXED	PELCO	IME SERIES MINI VANDAL DOME	25 FRAMES PER SECOND	PEOPLE (HEADS AND SHOULDERS) WALKING ON PONTOON	SECURITY BUILDING VIA CCTV FORBOT ON PONTOON	FIBRE	1/8 CONDUITS / CABLE LADDER	DB PONTOON	DB PONTOON CPDU	1/8 CONDUITS / CABLE LADDER
C28	PONTOON	FIXED	PELCO	IME SERIES MINI VANDAL DOME	25 FRAMES PER SECOND	PEOPLE (HEADS AND SHOULDERS) WALKING ON PONTOON	SECURITY BUILDING VIA CCTV FORBOT ON PONTOON	FIBRE	1/8 CONDUITS / CABLE LADDER	DB PONTOON	DB PONTOON CPDU	1/8 CONDUITS / CABLE LADDER
C29	PONTOON	FIXED	PELCO	IME SERIES MINI VANDAL DOME	25 FRAMES PER SECOND	PEOPLE (HEADS AND SHOULDERS) WALKING ON PONTOON	SECURITY BUILDING VIA CCTV FORBOT ON PONTOON	FIBRE	1/8 CONDUITS / CABLE LADDER	DB PONTOON	DB PONTOON CPDU	1/8 CONDUITS / CABLE LADDER
C30	PONTOON	FIXED	PELCO	IME SERIES MINI VANDAL DOME	25 FRAMES PER SECOND	PEOPLE (HEADS AND SHOULDERS) WALKING ON PONTOON	SECURITY BUILDING VIA CCTV FORBOT ON PONTOON	FIBRE	1/8 CONDUITS / CABLE LADDER	DB PONTOON	DB PONTOON CPDU	1/8 CONDUITS / CABLE LADDER
C31	PONTOON	FIXED	PELCO	IME SERIES MINI VANDAL DOME	25 FRAMES PER SECOND	PEOPLE (HEADS AND SHOULDERS) WALKING ALONG GANGWAY	SECURITY BUILDING VIA CCTV FORBOT ON PONTOON	FIBRE	1/8 CONDUITS / CABLE LADDER	DB PONTOON	DB PONTOON CPDU	1/8 CONDUITS / CABLE LADDER

GENERAL NOTES:

- A. REFER TO DRAWINGS 20460 AND 20460 FOR DETAILS OF OTHER CCTV CAMERA.



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PROJECT MANAGEMENT INITIALS

DESIGNER	REVISED	ISSUED
PROJECT DATA	SURVEY	INSTALL
DATE	DATE	DATE

ISSUE/REVISION

NO.	DATE	DESCRIPTION
1		ISSUE FOR CONSTRUCTION
2		REVISION

PROJECT NUMBER
6022818

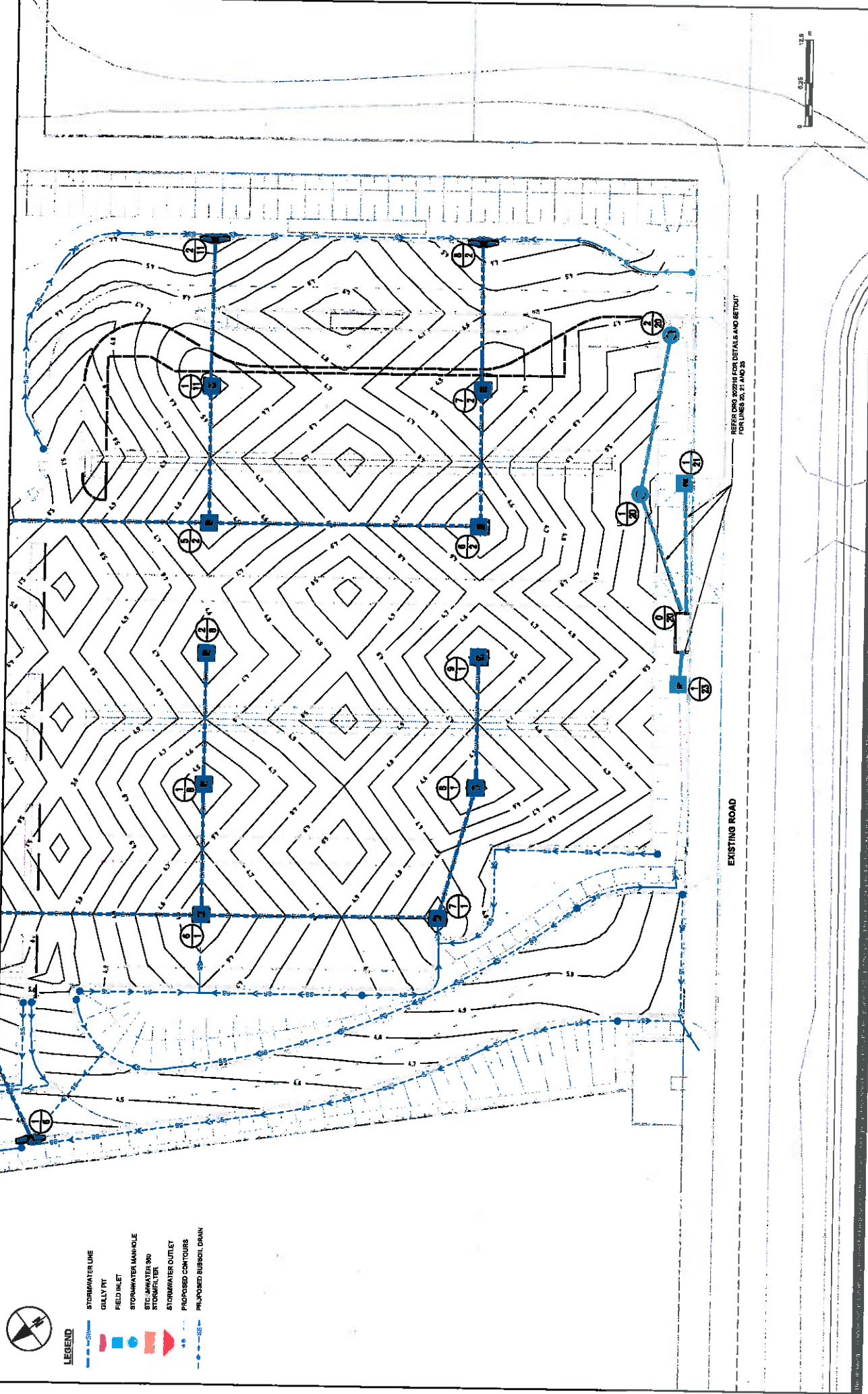
SHEET TITLE
MARINE OPERATIONS TERMINAL
CCTV SCHEDULE

PROJECT NUMBER
405400

REVISION
0

Appendix E-3 Marine Operations Terminal Construction Drawings - Stormwater

Marine Operations Terminal Drawing Title	60323818-SHT Reference	Revision Number
STORMWATER LAYOUT SHEET 1	202201	0
STORMWATER LAYOUT SHEET 2	202202	0
STORMWATER LONGITUDINAL SECTION - SHEET 1	202203	1
STORMWATER LONGITUDINAL SECTION - SHEET 2	202204	1
STORMWATER LONGITUDINAL SECTION - SHEET 3	202205	1
STORMWATER DETAILS -SHEET 1	202209	0
STORMWATER DETAILS -SHEET 2	202210	0
STORMWATER DETAILS -SHEET 3	202211	0



REFER TO WORKS FOR DETAILS AND SETOUT FOR LINES 20, 21 AND 23

EXISTING ROAD

- LEGEND**
- NORTH
 - STORMWATER LINE
 - GULLY PIT
 - STORMWATER MANHOLE
 - STORMWATER OUTLET
 - PROPOSED SUBSOIL DRAIN
 - STORMWATER 300
 - STORMWATER 150
 - PROPOSED CONTOURS
 - PROPOSED SUBSOIL DRAIN

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ISSUE/REVISION

NO	DATE	DESCRIPTION
0	29/04/19	ISSUED FOR CONSTRUCTION
1		
2		

CERTIFICATION

DISCIPLINE	CERTIFICATION	ISSUE NO.	NO
CIVIL	MEMBER	2020	

PROJECT DATA

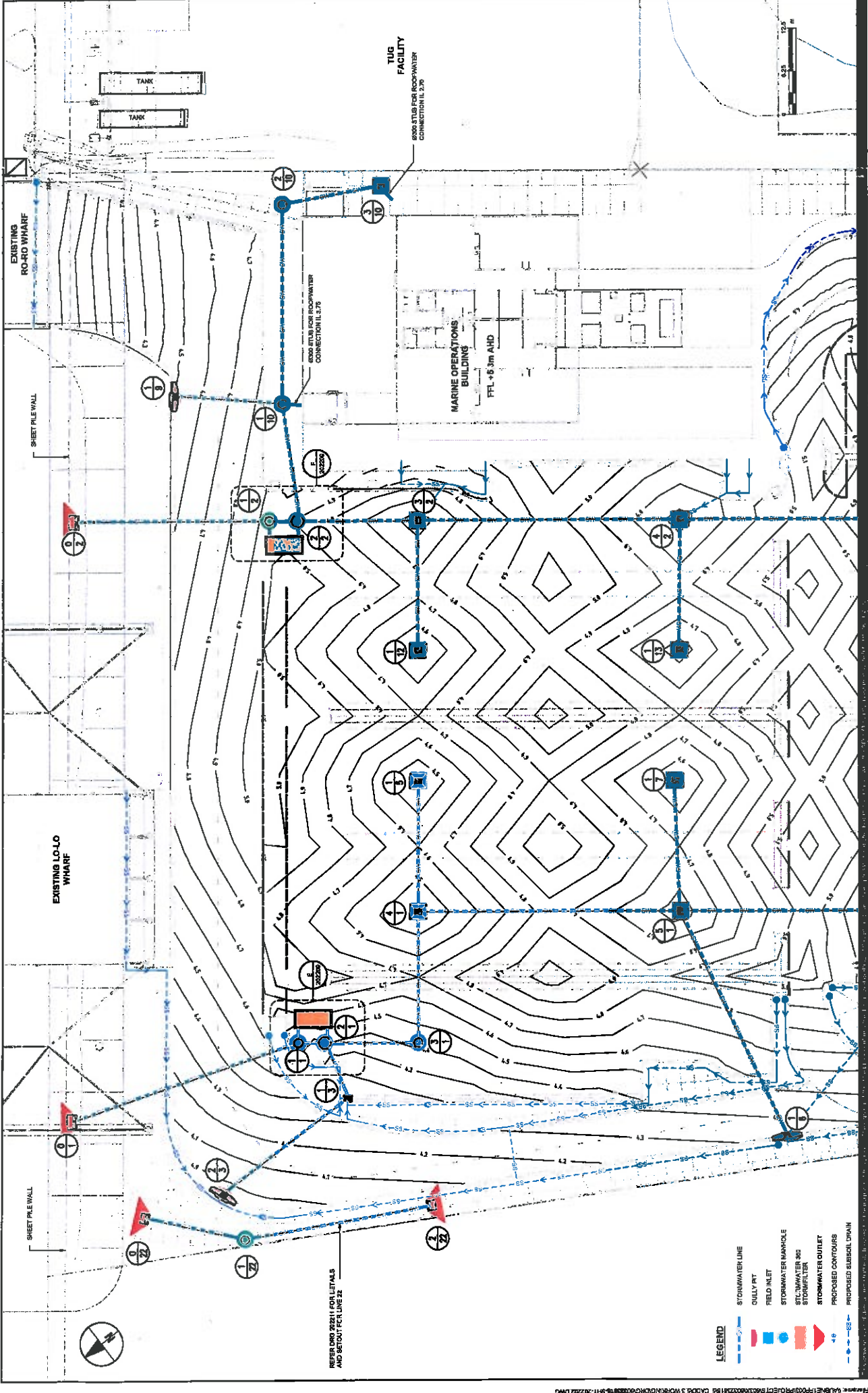
DATE	DESIGNER	CHECKED	APPROVED

PROJECT NUMBER
60323919

SHEET TITLE
MARINE OPERATIONS TERMINAL
STORMWATER LAYOUT
SHEET 1

SHEET NUMBER
REVISION

202201



150 A1 20mm x 44mm

REFER DWD 2021 FOR DETAILS AND SETOUT PER LINE 22

- LEGEND**
- STORMWATER LINE
 - GULLY PIT
 - FIELD INLET
 - STORMWATER MANHOLE
 - STORMWATER 300
 - STORMWATER 450
 - STORMWATER OUTLET
 - PROPOSED CONTOURS
 - PROPOSED SUBSOL DRAIN

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CERTIFICATION

DISCIPLINE	CERTIFIED	DATE	NO.
CIVIL	YES	2022	

PROJECT DATA

DATE	NO.	BY	DESCRIPTION
01/03/2024	01	MARK	ISSUED FOR CONSTRUCTION

PROJECT MANAGEMENT INITIALS

MP	DS	NO.

BLUE/REVISION

NO.	DATE	DESCRIPTION

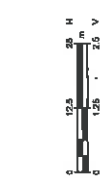
PROJECT NUMBER 00323618
SHEET TITLE MARINE OPERATIONS TERMINAL STORMWATER LAYOUT
SHEET 2
SHEET NUMBER 202202
REVISION 0

150 A1 20mm x 44mm
 150 A1 20mm x 44mm
 150 A1 20mm x 44mm

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CERTIFICATION

DISCIPLINE	NO.	DATE
CIVIL	1	20/08/18

PROJECT MANAGEMENT INITIALS

NO.	NO.	NO.
DESIGNED	CHECKED	APPROVED

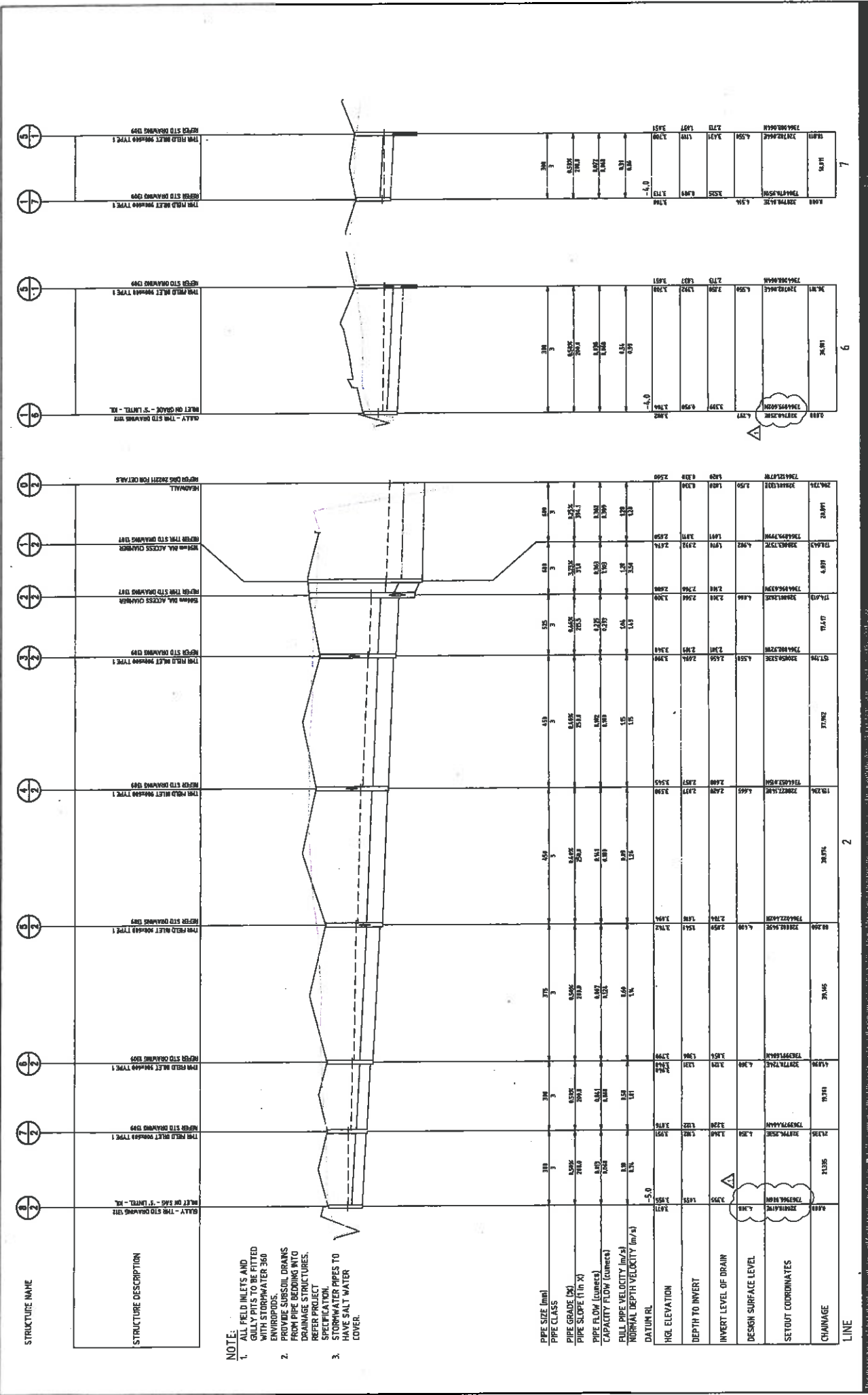
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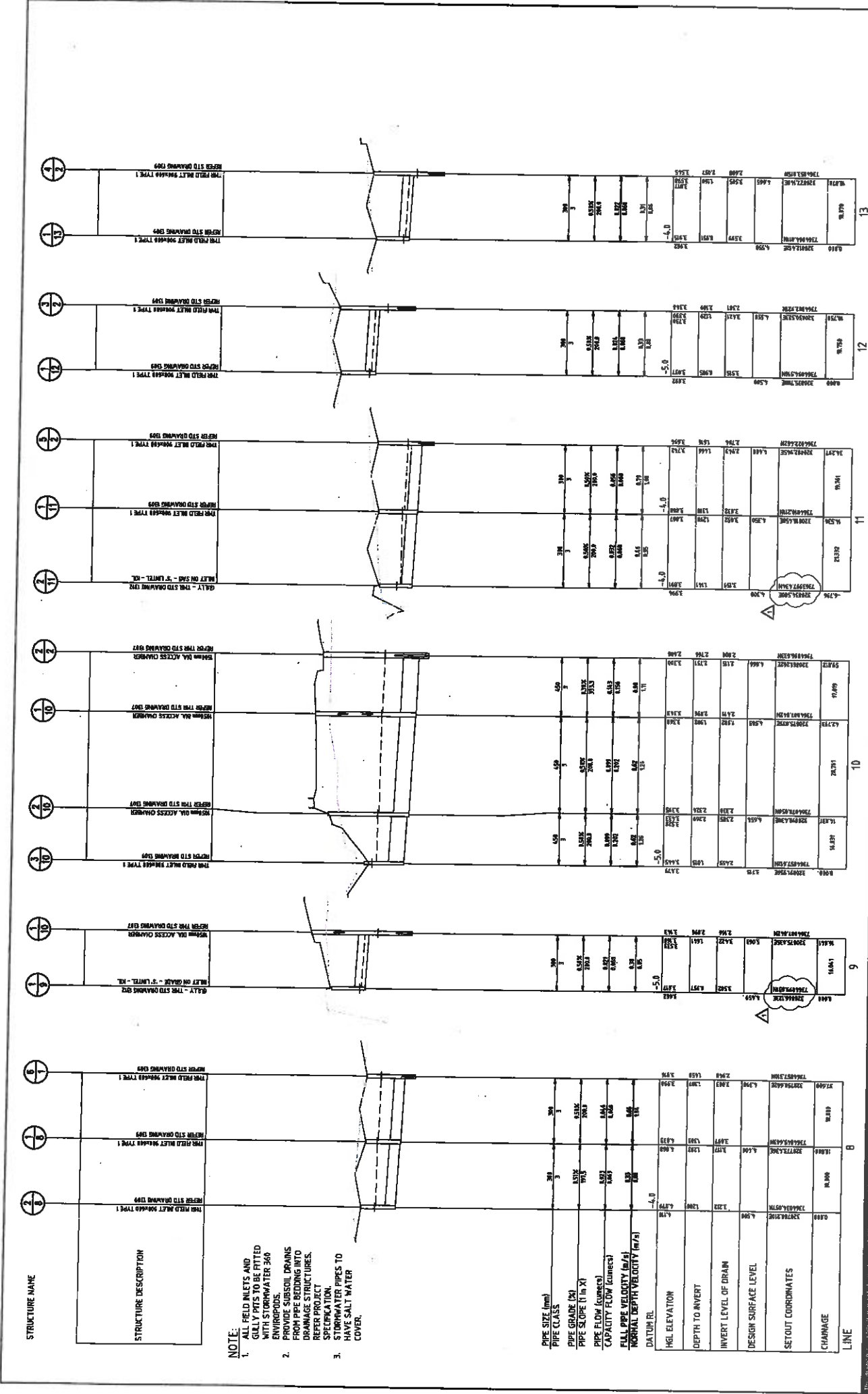
DATE	BY	DESCRIPTION
20/08/18	SAVARY	ISSUED FOR CONSTRUCTION

ISSUE/REVISION

NO.	DATE	DESCRIPTION
1	22/08/17	LOCATIONS AMENDED
0	26/04/17	ISSUED FOR CONSTRUCTION

PROJECT NUMBER 00323818
SHEET TITLE MARINE OPERATIONS TERMINAL STORMWATER LONGITUDINAL SECTION - SHEET 2
BHEET NUMBER 00323818





NOTE:

- ALL FIELD INLETS AND GULLY PITS TO BE FITTED WITH STORMWATER 360 ENVIROPODS.
- PROVIDE SUBSOIL DRAINS FROM PIPE BEDDING INTO CHAMBER STRUCTURES. THESE STRUCTURES SHOULD BE CONNECTED TO SPECIFIC STORMWATER PIPES TO HAVE SALT WATER COVER.

STRUCTURE NAME

STRUCTURE DESCRIPTION

PIPE SIZE (mm)	
PIPE CLASS	
PIPE GRADE (%)	
PIPE SLOPE (1 in X)	
PIPE FLOW (cumes)	
CAPACITY FLOW (cumes)	
FULL PIPE VELOCITY (m/s)	
NORMAL DEPTH VELOCITY (m/s)	
DATUM RL	
HEL ELEVATION	
DEPTH TO AVERT	
INVERT LEVEL OF DRAIN	
DESIGN SURFACE LEVEL	
SETOUT COORDINATES	
CHAMBER	

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CERTIFICATION

DISCIPLINE	CERTIFIED	NO
CIVIL	YES	2013

PROJECT MANAGEMENT INITIALS

NP	DESIGNER	CHK	NO
			APPROVED

ISSUE/REVISION

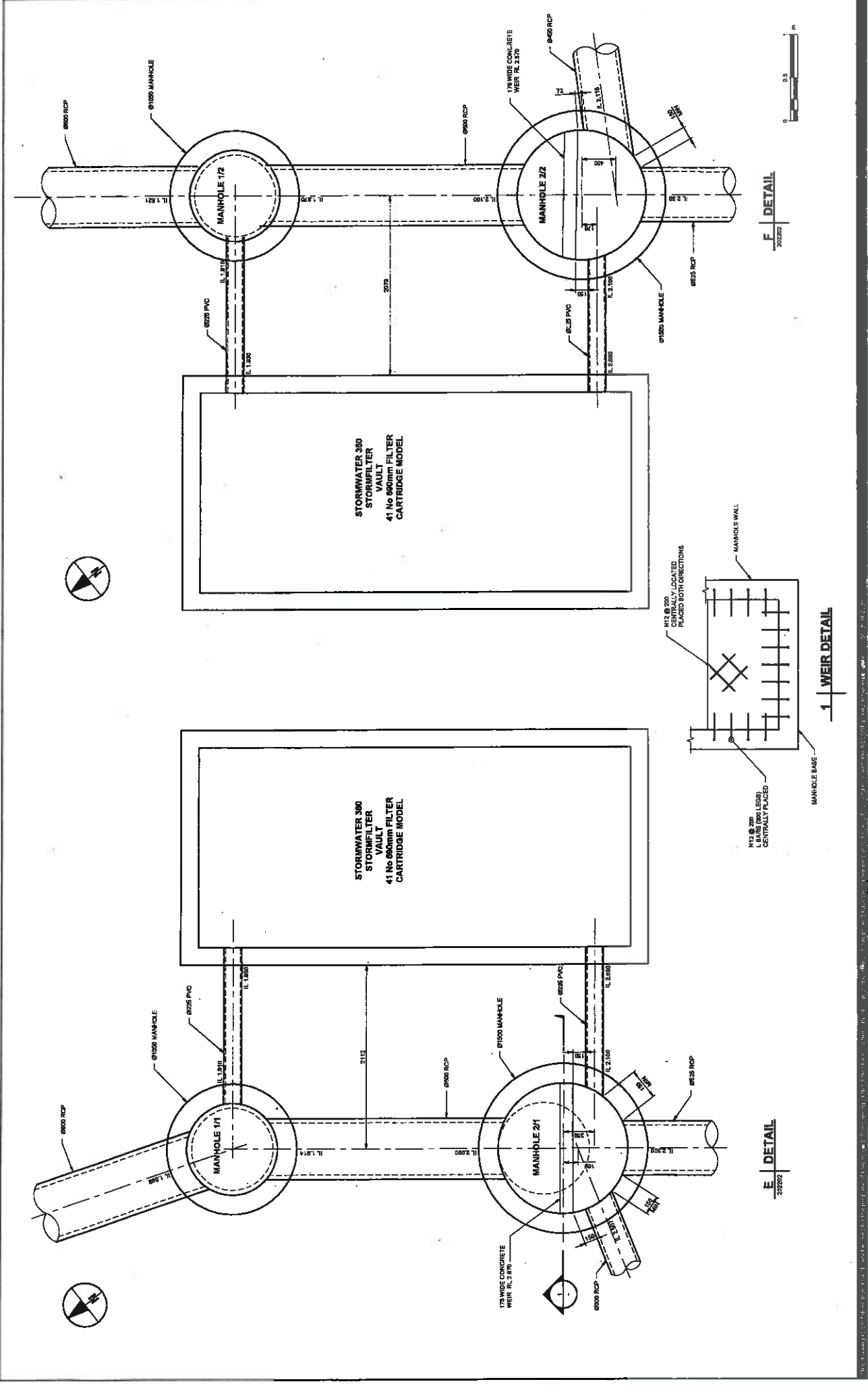
NO	DATE	DESCRIPTION
1	22/04/18	LOCATION'S AMENDED
0	26/04/18	ISSUED FOR CONSTRUCTION

PROJECT NUMBER
00320118

SHEET TITLE
MARINE OPERATIONS TERMINAL
STORMWATER
LONGITUDINAL SECTION - SHEET 3

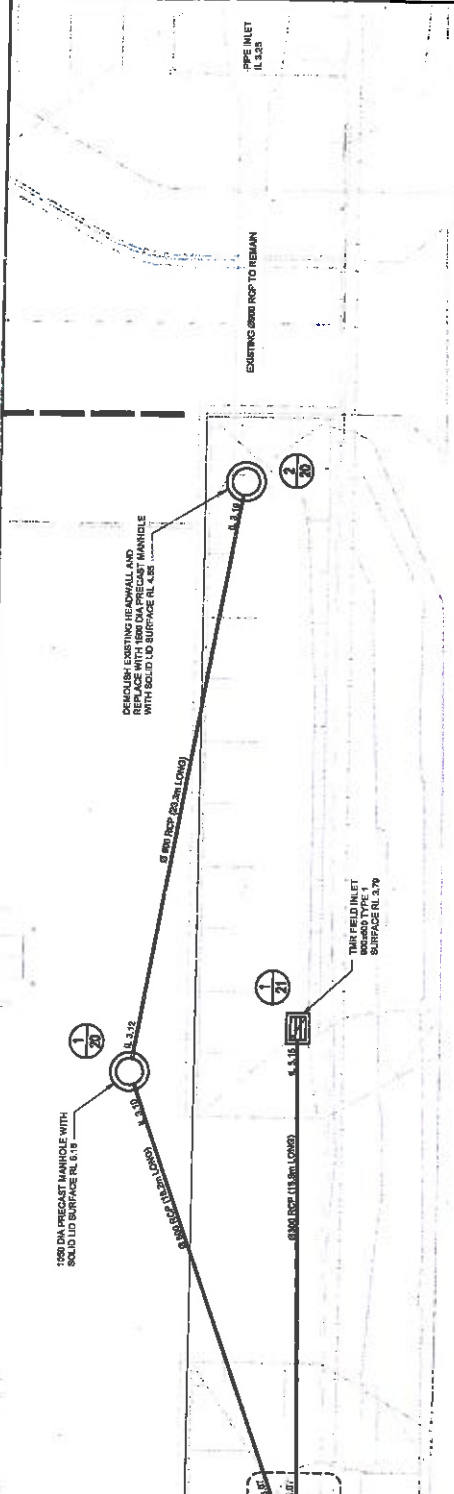
SHEET NUMBER
10

REVISION
202205

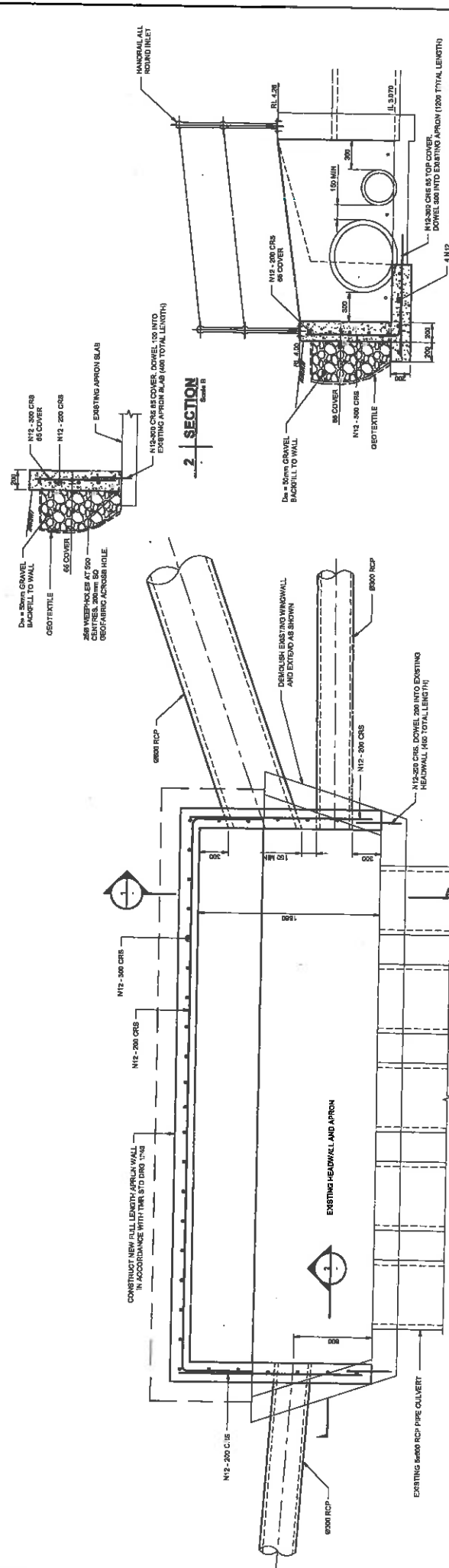


PROJECT		CLIENT		ISSUE/REVISION	
RG Tanna Marine Operations Terminal GLA08106		GLA08106		00223818	
CONSULTANT		PROJECT DATA		SHEET TITLE	
AECOM Australia Pty Ltd A.B.N. 20 088 846 026 www.aecom.com		DATE: / /		MARINE OPERATIONS TERMINAL STORMWATER DETAILS - SHEET 1	
PROJECT NUMBER		DESIGNER		SHEET NUMBER	
00223818		SUNSHY / MKA DB		202209	
PROJECT DATA		CHECKED / APPROVED		REVISION	
DATE: / /		/ /		NO. DESCRIPTION	
DATE: / /		/ /		0 20/04/18 ISSUED FOR CONSTRUCTION	
DATE: / /		/ /		1 20/04/18 ISSUED FOR CONSTRUCTION	
DATE: / /		/ /		2 20/04/18 ISSUED FOR CONSTRUCTION	

POINT No.	EASTING	NORTHING	REMARKS
2/20	320783.411	7363653.146	STRUCTURE
2/20	320783.481	7363670.517	STRUCTURE
1/21	320783.594	7363677.846	STRUCTURE
1/23	320783.147	7363622.843	STRUCTURE



PLAN Scale A



1 SECTION Scale B

2 SECTION Scale B

NOTE: FIELD INLETS AND GULLY PITS TO BE SET WITH STORMWATER 300 ENVIROPO23

A DETAIL Scale B

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PROJECT
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CERTIFICATION

DISCIPLINE	CIVIL
CERT/ISSN	1434
REG No.	9250

PROJECT MANAGEMENT (INITIALS)

NO	NO	NO	NO
DESIGNER	CHECKED	APPROVED	

PROJECT DATA

DATE	1/24/23	ISSUED FOR CONSTRUCTION	0
DATE		DESCRIPTION	

REVISION

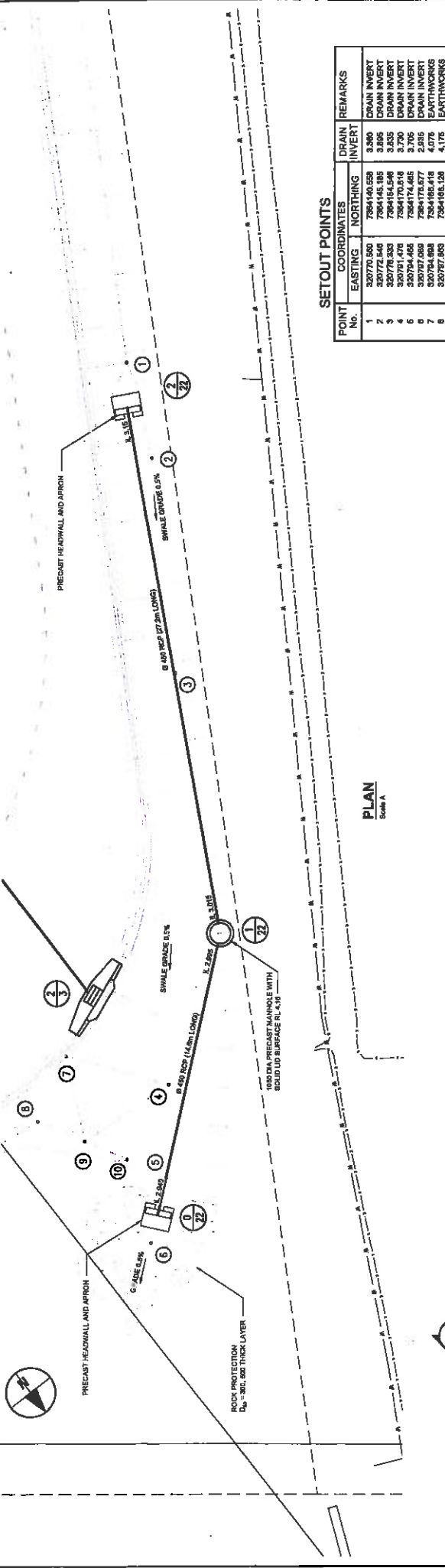
NO	NO	NO	NO
ISSUED FOR CONSTRUCTION	0	24/1/23	0
DATE		DESCRIPTION	

PROJECT NUMBER
 80323816

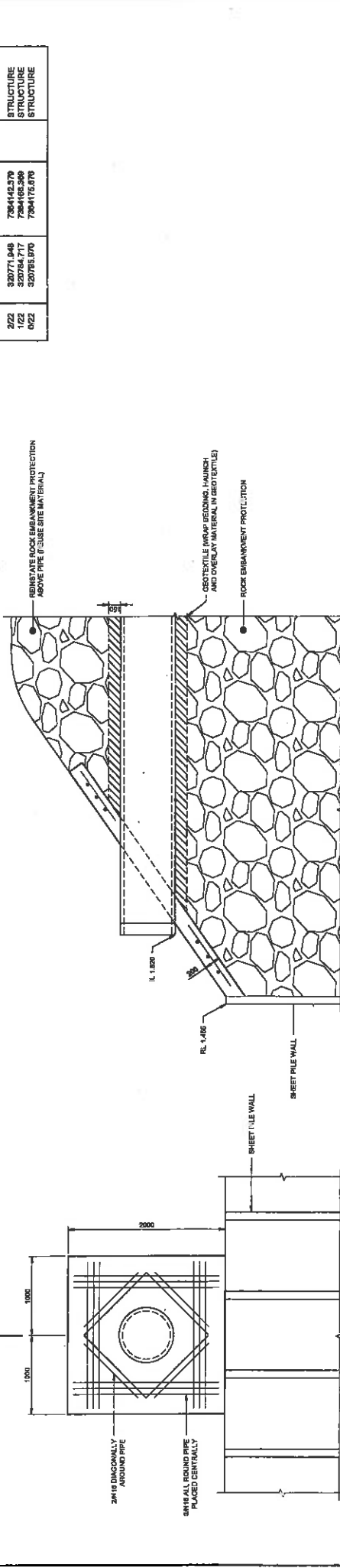
SHEET TITLE
 MARINE OPERATIONS TERMINAL
 STORMWATER
 DETAILS - SHEET 2

SHEET NUMBER
 202210

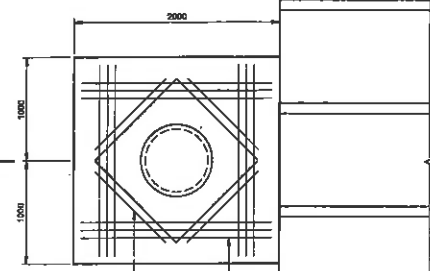
REVISION
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PLAN
Scale A



SECTION
Scale B

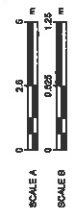


OUTLET DETAIL
Scale 1

NOTE:
1. FLET G.P. (RINKA7)
2. 70MM COVER TO REINFORCEMENT

SETOUT POINTS

POINT No.	COORDINATES		DRAIN INVERT	REMARKS
	EASTING	NORTHING		
1	320770.580	7864168.659	3.200	DRAIN INVERT
2	320772.540	7864165.185	3.805	DRAIN INVERT
3	320778.333	7864164.546	3.835	DRAIN INVERT
4	320791.474	7864170.518	3.730	DRAIN INVERT
5	320784.685	7864174.465	3.705	DRAIN INVERT
6	320784.685	7864174.465	4.176	GRAVITY INVERT
7	320754.684	7864168.416	4.078	EARTHWORKS
8	320757.693	7864168.128	4.176	EARTHWORKS
9	320788.339	7864170.411	4.376	EARTHWORKS
10	320785.458	7864172.474	4.580	EARTHWORKS
222	320771.048	7864169.370		STRUCTURE
022	320764.717	7864168.369		STRUCTURE





Operational Shipping Activity Management Plan Phases I and II

EPBC Approval 2008/4058

Document Number: 3310-GLNG-5-1.3-0012

Author:

Title	Name	Signature	Date
Senior Environmental Advisor	Brad Cartwright		16/10/15

Reviewed by:

Title	Name	Signature	Date
EHSS&T Manager	Deborah Hagenbruch		23.10.15

Approved by:

Title	Name	Signature	Date
General Manager Downstream Operations	Brenton Hawtin		28/10/15

Date	Rev	Reason For Issue	Author	Checked	Approved

Stormwater Management Plan

RG Tanna Marine Operations Terminal

