

30 November 2022

Pacific Marine Base Bundaberg
C/- Saunders Havill Group, Julian Wooderson
9 Thompson Street
BOWEN HILLS QLD 4006

Dear Mr Wooderson,

NEGOTIATED DECISION NOTICE – DA2018/10/04

(GIVEN UNDER SECTION 76(3) PLANNING ACT 2016 AND THE PROVISIONS OF THE PORT OF BUNDABERG LAND USE PLAN 2020)

Gladstone Ports Corporation Limited received your change representations under section 75 of the *Planning Act 2016* on 18 November 2022. ***This negotiated decision notice replaces the decision notice dated 1 November 2022 and 29 November 2022 (due to typographical error).***

The changes agreed to are:

1. Amend condition 41; and
2. Amend typographical error on site section plans.

1. Application Details

Application Number:	DA2018/10/04
Applicant Name:	Pacific Marine Base Bundaberg
Applicant Details:	C/-Saunders Havill Group, Julian Wooderson 9 Thompson Street BOWEN HILLS QLD 4006 Email: julianwooderson@saundershavill.com
Decision Details:	Change application (Change Other) to a Development approval DA2018/10 for combined Material Change of Use and Operational Works to include: <ol style="list-style-type: none"> 1. Commercial vessel wharf (Stage 1), including Material Change of use for Port Infrastructure, Port Services – Dredging and Dredge Material Placement and Reclamation; 2. Oversize Overmass Cargo Facility (Stage 2), including Material Change of Use for Loading and Unloading infrastructure and activities; 3. Environmentally Relevant Activities (ERA 16 Dredging)

	<p>4. Operational Works – tidal works that is dredging, reclamation and construction of sheet pile wharf, dock, additional piles, storm water outfall and navigational aids and</p> <p>5. Request to extend the Currency Period for the Operational Works component (04/1/2022) to align with the MCU currency period (04/11/2025).</p>
Location Street Address	Buss Street and 45 Wharf Drive, Burnett Heads
Location Real property description:	<p><u>Dry Area</u></p> <ul style="list-style-type: none"> • Lease AU on SP305678 and Easement AX in Lot 501 on SP279707 • Lease AY on SP335869 in Lot 501 on SP279707 • Lots 5 and 6 on RP7193 • Lot 6 on SP166192 <p><u>Wet Lease Area</u></p> <ul style="list-style-type: none"> • Sub-Lease AW on SP305678 in Lot 287 on SP166199 • Sub-Lease AZ on SP335869 in Lot 287 on SP166199 • Sub-Lease BA on SP335870 in Lot 287 on SP166199 • Sub-Lease BB on SP335870 in Lot 287 on SP166199 • Sub-Lease BC on SP335870 in Lot 276 on SP128643 <p>Unallocated State Land (USL) adjacent to Lot 287 on SP166199</p>
Decision Notice Issued:	1 November 2022
Date Appeal Period Suspended:	9 November 2022
Date Representations Received:	18 November 2022
Land Owner:	Gladstone Ports Corporation Limited Department of Resources

2. Details of Proposed Development

Request to Change approval for the Pacific Marine Base Bundaberg to remove ship maintenance and repair facility and include reference to Pacific Marine Base Bundaberg Oversize Overmass (OSOM) Cargo Facility (including extension of commercial wharf).

3. Details of Decision

This development application was **decided** on **4 November 2019** and **the change other decided on 27 October 2022**.

This development application is **approved in full with conditions**. These conditions are set out in Attachment 1 and are clearly identified to indicate whether the assessment manager or a concurrence agency imposed them.

4. Details of the approval

Development permit -

1. Commercial vessel wharf (Stage 1), including Material Change of use for Port Infrastructure, Port Services – Dredging and Dredge Material Placement and Reclamation;
2. Oversize Overmass Cargo Facility (Stage 2), including Material Change of Use for Loading and Unloading infrastructure and activities;

Gladstone Ports Corporation Limited

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3. Environmentally Relevant Activities (ERA 16 Dredging)
4. Operational Works – tidal works that is dredging, reclamation and construction of sheet pile wharf, dock, additional piles, storm water outfall and navigational aids

5. Conditions

This approval is subject to the conditions in Attachment 1.

6. Further development permits

Please be advised that the following development permits are required to be obtained before the development can be carried out –

1. Any Building Work approvals required;
2. Any Plumbing and Drainage Work approvals required; and
3. Any Operational Works approvals that do not meet the relevant 'accepted subject to requirements' assessment.

7. Properly made submissions

Not applicable – No part of the application required public notification.

8. Approved plans and specifications

Copies of the following plans, specifications and/or drawings are attached.

Drawing/report title	Prepared by	Date	Reference no.	Version
Aspect of development: Material Change of Use and Operational Work for marine industry base – assessable development on Strategic Port Land and Strategic Port Land tidal area				
<i>Marine Industry Site – Construction Environmental Management Plan</i>	<i>Pacific Marine Base Bundaberg</i>	<i>01/12/2021</i>	<i>211108 R04 PMB CEMP</i>	<i>-</i>
<i>Marine Industry Site – Operational Environmental Management Plan</i>	<i>BMT</i>	<i>27/06/2022</i>	<i>A11245</i>	<i>Ver 1</i>
<i>Marine IndustRy Site – Dredge Management Plan</i>	<i>BMT</i>	<i>27/06/2022</i>	<i>A11245</i>	<i>Ver 1</i>
<i>Bundaberg Marine Industry Site – Sediment Characterisation Report</i>	<i>BMT</i>	<i>27/06/2022</i>	<i>A11245</i>	<i>Ver 2</i>
<i>General layout plan</i>	<i>LONJAC</i>	<i>25/06/2022</i>	<i>0888-C0100</i>	<i>Rev A</i>
<i>Master Services – Site Plan</i>	<i>LONJAC</i>	<i>25/06/2022</i>	<i>0888-C0950</i>	<i>Rev A</i>
<i>Master Services – Site Facilities Plan</i>	<i>LONJAC</i>	<i>25/06/2022</i>	<i>0888-C0960</i>	<i>Rev A</i>
<i>Site Facilities Detail</i>	<i>LONJAC</i>	<i>25/0/2022</i>	<i>0888-C0101</i>	<i>Rev A</i>
<i>Staging plans</i>	<i>LONJAC</i>	<i>25/06/2022</i>	<i>0888-C0200</i>	<i>Rev A</i>
<i>Site access plan and turning paths</i>	<i>LONJAC</i>	<i>25/06/2022</i>	<i>0888-C0390</i>	<i>Rev A</i>
<i>Pavement Plan</i>	<i>LONJAC</i>	<i>25/06/2022</i>	<i>0888-C0600</i>	<i>Rev A</i>
<i>Earthworks Plan</i>	<i>LONJAC</i>	<i>25/06/2022</i>	<i>0888-C0400</i>	<i>Rev A</i>
<i>Grading Plan</i>	<i>LONJAC</i>	<i>25/06/2022</i>	<i>0888-C0500</i>	<i>Rev A</i>
<i>Grading Plan</i>	<i>LONJAC</i>	<i>25/06/2022</i>	<i>0888-C0510</i>	<i>Rev A</i>
<i>Site sections – Sheet 1 of 4</i>	<i>LONJAC</i>	<i>25/06/2022</i>	<i>0888-C0620</i>	<i>Rev A</i>
<i>Site sections – Sheet 2 of 4</i>	<i>LONJAC</i>	<i>25/06/2022</i>	<i>0888-C0620</i>	<i>Rev A</i>

Drawing/report title	Prepared by	Date	Reference no.	Version
Site sections – Sheet 3 of 4	LONJAC	25/06/2022	0888-C0620	Rev A
Site sections – Sheet 4 of 4	LONJAC	25/06/2022	0888-C0620	Rev A
<i>Services – Electrical Site Reticulation Plan</i>	LONJAC	25/06/2022	0888-E0100	Rev A
<i>Service – Communications Site Reticulation Layout Plan</i>	LONJAC	25/06/2022	0888-E0300	Rev A
<i>Services – Site CCTV Layout Plan</i>	LONJAC	25/06/2022	0888-E0500	Rev A
<i>Services – Site Potable Water Reticulation Plan</i>	LONJAC	25/06/2022	0888-H0100	Rev A
<i>Services – Site Fire Water Reticulation Plan</i>	LONJAC	25/06/2022	0888-H0200	Rev A
<i>Services – Site Sewer Water Reticulation Plan</i>	LONJAC	25/06/2022	0888-H0300	Rev A
<i>Services – Stormwater Layout and Catchment Plan</i>	LONJAC	25/06/2022	0888-H0400	Rev A
<i>Services – Stormwater Layout – Site Facilities</i>	LONJAC	25/06/2022	0888-H0410	Rev A
<i>Maritime Notes and Typical Section</i>	LONJAC	25/06/2022	0888-K0000	Rev A
<i>Maritime Layout</i>	LONJAC	29/06/2022	0888-K0020	Rev B
<i>Stage 1 Works – Structural General Notes</i>	Kramer Ausenco	08/06/2022	0888-K0101	Rev 1
<i>Stage 1 Works – Structural Cell Set Out</i>	Kramer Ausenco	08/06/2022	0888-K0115	Rev 1
<i>Stage 2 Works – Structural Cell Set Out</i>	Kramer Ausenco	08/06/2022	0888-K0116	Rev 0
<i>Stage 1 Works – Structural Ramp details</i>	Kramer Ausenco	08/06/2022	0888-K0120	Rev 1
<i>Stage 2 Works – Structural Concrete Details</i>	Kramer Ausenco	14/06/2022	0888-K0126	Rev 0
<i>Stage 2 Works – Structural Wharf Typical Sections and Details</i>	Kramer Ausenco	16/06/2022	0888-K0127	Rev 0
<i>Stage 2 Works – Structural Fender and Bollard Layout</i>	Kramer Ausenco	16/06/2022	0888-K0138	Rev 0
<i>Stage 2 Works – Structural Cone Fender Panel Details</i>	Kramer Ausenco	14/06/2022	0888-K0139	Rev 0
<i>Stage 2 Mooring Plan</i>	LONJAC	25/06/2022	0888-K0320	Rev A
<i>Stage 1 Rock Wall Plan and Elevation</i>	LONJAC	25/06/2022	0888-K0410	Rev A
<i>Stage 1 Rockwall Typical Sections</i>	LONJAC	25/06/2022	0888-K0420	Rev A
<i>Stage 2 Rock Wall Plan and Elevation</i>	LONJAC	25/06/2022	0888-K0430	Rev A
<i>Stage 2 Rockwall Typical Sections</i>	LONJAC	25/06/2022	0888-K0444	Rev A
<i>Stage 1 Dredging Plan</i>	LONJAC	25/06/2022	0888-K0510	Rev A
<i>Stage 1 Volumes Plan</i>	LONJAC	25/06/2022	0888-K0520	Rev A
<i>Stage 2 Dredging Plan</i>	LONJAC	25/06/2022	0888-K0550	Rev A
<i>Stage 2 Volumes Plan</i>	LONJAC	25/06/2022	0888-K0560	Rev A
<i>Stages 1 and 2 Typical Sections and Details Sheet 1</i>	LONJAC	25/06/2022	0888-K0570	Rev A

Drawing/report title	Prepared by	Date	Reference no.	Version
Stages 1 and 2 Typical Sections and Details Sheet 2	LONJAC	25/06/2022	0888-K0571	Rev A
Stages 1 and 2 Typical Sections and Details Sheet 3	LONJAC	25/06/2022	0888-K0573	Rev A
Stages 1 and 2 Typical Sections and Details Sheet 4	LONJAC	25/06/2022	0888-K0573	Rev A
Stages 1 and 2 Typical Sections and Details Sheet 5	LONJAC	25/06/2022	0888-K0574	Rev A
Stages 1 and 2 Dredging and Reclamation Plan	LONJAC	25/06/2022	0888-K0600	Rev A
Stages 1 and 2 Sit Cross Sections Sheet 1	LONJAC	25/06/2022	0888-K0650	Rev A
Stages 1 and 2 Site Cross Sections Sheet 2	LONJAC	25/06/2022	0888-K0651	Rev A
Stages 1 and 2 Site Cross Sections Sheet 3	LONJAC	25/06/2022	0888-K0652	Rev A
Stages 1 and 2 Site Cross Sections Sheet 4	LONJAC	25/06/2022	0888-K0653	Rev A
Stage 1 Beacon Relocation Plan	LONJAC	25/06/2022	0888-K0710	Rev A
Stage 2 Beacon Relocation Plan	LONJAC	25/06/2022	0888-K0720	Rev A
Administration Building Plan and Elevations	LONJAC	25/06/2022	0888-A0210	Rev A
Security / Gatehouse Plan and Elevations	LONJAC	25/06/2022	0888-A0211	Rev A
Baseline Environmental Site Assessment – Bundaberg Marine Industry Site	Butler Partners	28/06/2022	R18-140C	-
Bundaberg Marine Industry Site – Sediment characterisation Report	BMT	27/06/2022	A11245	Ver 02

9. Currency period for the approval

This development approval will lapse at the end of the period set out in section 85 of the *Planning Act 2016* OR

- For a Material Change of Use – this approval lapses if the first change associated with this approval does not happen within 6 years after this decision date – referenced in section 85 of the *Planning Act 2016*.
- For Operational Works this approval lapses if the works associated with this approval does not substantially start within 6 years after this decision date – referenced in section 85 of the *Planning Act 2016*.

10. Rights of Appeal

The rights of applicants to appeal to a tribunal of the Planning and Environment court against decisions about a development application are set out in chapter 6, part 1 of the *Planning Act 2016*. For particular applications, there may also be a right to make an application for a declaration by a tribunal (see chapter 6, part 2 of the *Planning Act 2016*).

A copy of the relevant appeal provisions are attached.

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

Yours sincerely,



Erin Clark
Principal Planner

Cc: Wide Bay Burnett SARA
Bundaberg Regional Council

Enc. Attachment 1: Conditions of Approval
Part 1 – Conditions imposed by the assessment manager
Part 2 – Entity response
(SARA response dated 20 September 2022)

Attachment 2: Approved plans and specifications

Attachment 3: Extract of appeal provisions

Attachment 1 Conditions of Approval

PART 1: ASSESSMENT MANAGER CONDITIONS

In general the development proposal is in compliance with the requirements of Gladstone Ports Corporation Limited (GPC). This development approval is subject to each the following conditions which are stated by GPC, the Assessment Manager.

Part 1a: Approval sought under Port of Bundaberg Land Use Plan 2020

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. The Applicant must obtain a development or change approval for any proposed development, temporary or permanent that is inconsistent with the approved plans, prior to such works commencing.
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 **Assessment Manager** for drawings or documentation the Applicant must submit for review, amend to the satisfaction of and obtain written acceptance from the **Assessment Manager**. Only in this manner can compliance with the condition be achieved.

Furthermore, the **Assessment Manager** will require no less than 20 business days, unless otherwise conditioned by the **Assessment Manager**, to assess the drawings or documentation. Should further information be required, the **Assessment Manager** will require a further 5 business **days**.

4. **Deleted.**
5. The Applicant must inform the **Assessment Manager** of completion of works within 14 days of practical completion of each stage of the development (excluding tidal works) and undertake a site inspection with the Assessment Manager. The Applicant must also certify that the development is constructed as per design and that the development has been constructed generally in accordance with the approved plans i.e. RPEQ certification for all civil works and tidal works and the appropriate certification for all building and plumbing works.
6. The **Applicant** must at its cost and expense, keep and maintain the development footprint, including existing services, in a state that is satisfactory to the Assessment Manager.

ENGINEERING & PLANNING

7. Prior to commencing works for each stage of development (**excluding tidal works**), the Applicant must submit to the Assessment Manager for approval the final 100% design 'for construction' drawings prepared by a suitably qualified person, including but not limited to:
 - (a) **General layout plan and staging plan drawn to an appropriate scale**
 - (b) **Landscape plan and any proposed entry treatments or signage**
 - (c) Earthworks (excavation and filling) including batters and final levels on site and surrounds;
 - (d) Stormwater infrastructure (for management of onsite and offsite / around site stormwater) and stormwater outfall;
 - (e) Pavement plan details plan;
 - (f) Utilities e.g. electricity and telecommunications;
 - (g) Outdoor lighting including security lighting
 - (h) Potable water and sewerage infrastructure;
 - (i) Fencing;
 - (j) Buildings and other structures and
 - (k) Waste storage areas and chemical and fuel storage areas; and

8. Prior to commencing works for each stage of development **for tidal works**, the Applicant must submit to the Assessment Manager for approval the final 100% design RPEQ certified 'for construction' drawings prepared by a suitable qualified person for tidal works, including but not limited to:
 - (a) Berth pocket and access channel;
 - (b) Reclamation;
 - (c) Wharf;
 - (d) Sheet piling;
 - (e) Piles;
 - (f) **Barge unloading ramp**;
 - (g) Stormwater outfall; and
 - (h) any other tidal infrastructure within the project.
9. **Deleted.**
10. **Deleted.**
11. 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 approved development shall be by the Applicant at their cost and expense. The Applicant is to notify the Assessment Manager if any material or debris is deposited. Upon completion of the development, the Applicant is to provide a clearance survey of the development area to the **Assessment Manager** as certification that the seabed is clear of any material or debris.
12. If, as a result of the works, or other cause attributable to the Applicant any revetment wall or structure outside the approved work area is displaced, the Applicant at its cost and expense shall restore the revetment or structure to its former condition and take such other action as is necessary to ensure the stability of the bank or structure to the satisfaction of the Regional Harbour Master or the **Assessment Manager (as applicable to the location)**.
13. Upon completion of the relevant part or stage of works the Applicant must supply the Assessment Manager with RPEQ certified 'As Constructed' plans prepared by a suitable qualified person in hard copy (2 of) and electronic (CAD format) which illustrate all infrastructure and services installed on, under or over port land associated with the activity unless otherwise approved in writing by the Assessment Manager.
14. The **Applicant** is to supply the Assessment Manager with a copy of certification of all building and plumbing and drainage works upon completion of relevant works.
15. The **Applicant** is to notify the Assessment Manager of damage caused to any port infrastructure or services included but not limited to security related devices, buildings, fences, lighting, roads walkways and underground services or infrastructure as a result of this activity. The Applicant is to undertake the repairs directly in consultation with the Assessment Manager and Bundaberg Regional Council, however, depending upon the nature and location of the damage, Gladstone Ports Corporation Limited retains the right to undertake the repairs at the expense of the Applicant.
16. **Deleted.**
17. **Prior to the commencement of Stage 2 of the development, transparent site fencing must be provided to a minimum of 1.8m in height. Unless otherwise approved by the Assessment Manager, the fencing is to be black PVC plastic coated, chain wire mesh fence and black posts on the site boundary around the perimeter of the development site.**

STORMWATER AND DRAINAGE

18. During all stages and phases of construction, all stormwater within the lease area or stormwater that traverses the lease area is to be captured or diverted and discharged via an approved lawful point of discharge.

19. ***The approved development must not impede any existing stormwater flow paths from adjoining or undeveloped land outside the development footprint. The Applicant is to provide a corridor 10m in width to provide for construction and installation of a stormwater drain in an agreed location on the southern boundary of the proposed lease area with Gladstone Ports Corporation Limited.***
20. ***An Erosion and Sediment Control plan is to be provided to the Assessment Manager prior to each stage of works occurring. The plan must be prepared by an appropriately qualified person, in accordance with Best Practice Erosion and Sediment control (BPESC).***

ROADS, PARKING AND ACCESS

21. ***The temporary pavement site access (roadway) identified on Staging Plan 0888-C0200 is to be in place no longer than 12 months from the commencing of the use under Stage 1 (and prior to commencement of use of Stage 2). After this time, the access must be designed to a standard appropriate for its intended use and durability.***
22. Provide to the satisfaction of Bundaberg Regional Council, road widening and infill works at the Buss Street roundabout to accommodate the B-Double or other heavy vehicle truck movements. The works may be inclusive of, but not limited to, the provision of:
 - (a) reinforced concrete and pavement within the central island; and
 - (b) widening of the south eastern kerb and channel (right-turn out of the premises – southbound to ensure that the B-Doubles or other heavy vehicles can turn into Buss Street without crossing the centreline of the street.
23. ***The Applicant must consult with Bundaberg Regional Council regarding any proposed works within Council road reserves and obtain any Council approvals necessary prior to any works commencing.***
24. All vehicle parking must be accommodated within the lease area at all times. No trucks or other heavy vehicles are to queue offsite within the road reserve or elsewhere on vacant land during construction. Heavy vehicles must be able to be **accommodated** and turned/ **manoeuvred** on site.
25. ***Deleted.***
26. ***For each stage of development, a final Operational Traffic Management Plan (OTMP) suitable for proposed vehicles utilising the approved use, must be provided to the Assessment Manager for approval a minimum of 10 business days prior to the commencement of any use. All activities associated with construction must be carried out in accordance with the approved OTMP.***

UTILITIES

27. Sanitary Drainage and water supply must be provided to the satisfaction of the Bundaberg Regional Council and generally in **accordance with LONIAC plan number HO400 Rev A and HO100 Rev A**. Works must include, **unless otherwise directed by Bundaberg Regional Council**, the following:
 - (a) the low pressure system (LPS), contained within the lease area, must be maintained and operated by the Lessee at all times;
 - (b) the LPS must connect to the pressure main via a Boundary connection Assembly – which is inclusive of two isolation valves pup out tee and non-return valve;
 - (c) the two manholes immediately downstream of the LPS pressure main must be lined;
 - (d) the first sewerage manhole upstream of the connection to Council's sewerage network must be provided with a property connection point (type A);
 - (e) connections to the existing water and sewage mains must be undertaken by Council and provided at no cost to Council.

28. Connection to Bundaberg Regional Council's water and sewer infrastructure is to be installed by Bundaberg Regional Council with the cost borne by Pacific Marine Base Bundaberg (PMBB).
29. **Any connection required to Gladstone Ports Corporation Limited or Third Party Service Provider (i.e. Bundaberg Regional Council, Ergon) infrastructure must be established prior to the commencement of the use for relevant stage.**
30. **Prior to the commencement of the use, provision of a new connection to reticulated water infrastructure located at the frontage of the site is to be installed with the cost being borne by the Applicant.**

OUTDOOR LIGHTING

31. Any site lighting used during construction 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.
32. **Prior to works commencing, the proponent must ensure all details of proposed mitigation measure/s to reduce skyglow from all external lighting associated with the development have been documented and are available for review by the Assessment Manager upon request.**
Note: the National Light Pollution Guidelines for Wildlife including marine turtles, seabirds and migratory shorebirds provides relevant guidance material.
33. **Lighting must be designed to facilitate a safe and secure parking and/ or access area, lit to a standard appropriate for safe night time operations.**
34. **Prior to the commencement of the use, design and install all external lighting in accordance with AS 4282 – Control of the obtrusive effects of outdoor lighting so as not to cause nuisance to resident, the airport, navigational aids or obstruct or distract pedestrian or vehicular traffic. Where an issue is identified or a validated complaint received, the Applicant must immediately rectify the matter to the satisfaction of the Assessment Manager.**

STREET IDENTIFICATION AND SIGNAGE

35. The street address of the development must be clearly visible and discernible from the primary frontage of the site by the provision of a street name and, where appropriate, the building/business name.
36. The Applicant must provide details of all proposed signage associated with the development, including signs on buildings, fences and posts and any proposed entry statements, to the Assessment Manager for approval (**where not 'Accepted, subject to requirements' under the relevant Land use plan**).

Note: It is the responsibility of the Applicant to determine whether building approval is required for any proposed signs and obtain necessary approval.

LANDSCAPING

37. The proponent must maintain the property frontage in a clean and tidy manner, and mow any grassed areas regularly.
38. **Landscaping is to be provided along the Buss Street road frontage of the site excluding access/egress to a width of 2 metres.**

Note: Per relevant condition, landscaping can be placed behind the fence if transparent fencing is located on the front boundary.

39. **Prepare and submit for approval to the Assessment Manager a Landscape plan in accordance with the applicable codes and guidelines of the Port of Bundaberg Land Use Plan 2020, and the conditions of this approval. The plan is to include, but not be limited to the following:**
- (a) **Details of any vegetated/landscaped drainage path areas/s;**
 - (b) **Minimum 2m wide landscaping to the front and side boundaries (where frontage to a road);**
 - (c) **Provision of mature trees and/or species to a minimum 3m height to Buss Street frontage of the site; and**
 - (d) **Details of any proposed irrigation systems;**

All landscaping must be carried out in accordance with an approved Landscaping plan.

DREDGING AND DREDGE MATERIAL DISPOSAL

Dredge Management Plan

40. **Prior to the commencement of the dredging activity, a Dredge Management Plan (DMP)¹ for the activity must be developed and implemented, and the DMP must contain the following:**
- (a) **Clearly stated aims and objectives**
 - (b) **Description of dredging operation including:**
 - a. **type of equipment to be used in dredging;**
 - b. **volume of dredged material to be removed, and duration and timing of the dredging campaign;**
 - c. **methods to be utilised for transporting dredged material; and**
 - d. **dredged material disposal methods.**
 - (c) **Maps or plans showing:**
 - a. **legend, north arrow and scale;**
 - b. **boundaries of dredging operation;**
 - c. **estimated zone of influence of sediment plumes;**
 - d. **location of designated disposal sites;**
 - e. **location of sensitive receptors; and**
 - f. **all monitoring locations.**
 - (d) **A sediment characterisation report prepared in accordance with the requirements of the National Assessment Guidelines for Dredging (Commonwealth of Australia 2009) and National Environment Protection (Assessment of Site Contamination) Measure (NEPC 1999), which includes all areas of proposed dredging and includes at least one sample in the proposed berth pocket area (taken from behind the existing seawall).**
 - (e) **A detailed description of sediment plume-associated monitoring program including:**
 - a. **sampling regime and methods; and**
 - b. **monitoring sites.**
 - (f) **A detailed description of the assessment methodology to provide data in relation to trigger values that will define alert levels.**
 - (g) **Clearly set out data handling and evaluation procedures that demonstrate how exceedance of alert levels will be determined.**
 - (h) **Management actions to be initiated if alert levels are exceeded.**

Note: The Dredge Management Plan is subject to review and amendment as required by changing regulation, monitoring results or administering authority recommendations.

41. **Placement of dredge material from Lot 501 must be undertaken within Lot 501 for this development, unless otherwise approved in writing by the Assessment Manager.**

Dredge Material Placement – MRA

42. **At least 3 months prior to commencing a dredging campaign, the Applicant must obtain Gladstone Ports Corporation Limited's approval to use the Materials Relocation Area (MRA) from the Port of Bundaberg Manager.**

The Applicant must provide the following information in their application:

- (a) **Volume of dredged material to be disposed within the MRA;**
 - (b) **Quality of dredged material;**
 - (c) **Schedule and timeframe of the proposed works**
43. **The Applicant must submit to the Assessment Manager for approval a MRA Management Plan (MRAMP) at least 30 business days prior to the commencement of each capital and maintenance dredging campaign. When the dredge material is being placed within Gladstone Ports Corporation Limited's MRA, the MRAMP must be consistent with Gladstone Ports Corporation Limited's MRA Strategy and Layout Plan and must include but is not limited to:**
- (a) **a dredge campaign program and schedule based upon the requirement of one user of the MRA at a time;**
 - (b) **for capital and maintenance dredging, a sediment sampling and analysis report¹ is prepared for all areas of dredging in accordance with relevant guidelines for quality which demonstrates that the material is not contaminated and is suitable for disposal in the MRA.**
 - (c) **a plan, including layout plans and engineering drawings prepared by a suitably qualified person for dredge material disposal transfer, pump-out methodology, placement, containment and management including:**
 - 1. **infrastructure required inside the MRA such as bund walls, weir boxes etc.;**
 - 2. **transfer methodology e.g. pipeline or truck, route/road crossings; and**
 - 3. **maintenance of vehicle and pedestrian access e.g. along Buss Street;**
 - (d) **a capacity analysis for the proposed disposal area within the MRA based upon the requirements of a minimum freeboard to top of bund of 1m to be maintained at all times;**
 - (e) **an acid sulphate soil treatment and management plan that:**
 - 1. **is prepared by a suitably qualified person;**
 - 2. **provides methodology to be implemented for identifying acid sulphate soils placed by the Applicant that requires treatment separately from any existing acid sulphate soils in the MRA;**
 - 3. **includes details of methodology of acid sulphate soil treatment, monitoring and verification of successful treatment; and**
 - 4. **certification that the acid sulphate soil placed in the MRA by the Applicant has been treated to relevant criteria such that there is no risk of non-compliant pH or contaminant levels in future water discharges.**
 - (f) **a discharge monitoring and sampling plan for the MRA to demonstrate compliance with relevant discharge water quality criteria;**
 - (g) **proposed reporting requirements in the event of any non-compliance with approvals; and**
 - (h) **a Traffic Management Plan prepared by a suitably qualified person for excavated or dredged material that is to be transferred to the MRA via truck or pipe**

Note - Sediment Analysis Plans used in the preparation of the Dredge Management Plan can be provided to satisfy this requirement.

44. **Deleted.**
45. The dredging and dredge placement activities must be undertaken in accordance with the **approved** DMP.
46. **Deleted.**
47. Upon completion of the dredging campaign and within one month of the final lawful release of discharge waters (unless otherwise agreed in writing) **by the Assessment Manager**, the Applicant must provide to the Assessment Manager for approval a report that documents the activities that have been carried out during the dredging campaign including:
 - (a) Volume and type of material placed inside the disposal area within the MRA;
 - (b) Final levels of disposal area within the MRA;
 - (c) Acid sulphate soil treatment monitoring data and verification of completed successful treatment; and
 - (d) Water quality discharge monitoring data and verification of completion of discharges.

CONSTRUCTION MANAGEMENT

48. The Applicant or their contractor is required to apply for and obtain from Gladstone Ports Corporation Limited a Permit to Dig/Excavate for each stage of development prior to commencing excavation or digging for each stage by contacting the Port Infrastructure Asset Manager on 4976 1332 or bartono@gpcl.com.au.
49. In the event a construction compound is required on Port land outside the project lease area for offices, laydown areas, employee car parking or stockpiling areas etc., the Applicant or their contractor must obtain a Consent to Enter from Gladstone Ports Corporation Limited's Property Advisor via 07 4976 1334 or property@gpcl.com.au or to works commencing.
50. Prior to each stage or new phase of construction works commencing on site, a Construction Traffic Management Plan (CTMP) prepared by a suitably qualified person specific to the construction works being undertaken must be submitted to the Assessment Manager for approval. The CTMP must include peak traffic movement data for each stage or new phase of works. The CTMP must be amended as necessary for any proposed construction works and any amendments to the CTMP are to be submitted to the Assessment Manager for approval.
51. The hours for the construction of the facility (i.e. operation of any machinery and/or other equipment other than a dredge) 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 written approval of the Assessment Manager. Dredging activities shall be unrestricted i.e. can take place 7 days a week 24 hours per day.
52. No mud, dirt or other debris is to be tracked onto public roads during construction activities.
53. **Construction fill material must be uncontaminated and reused from onsite or sourced from a licensed quarry.**
54. **Where any excavation, including dredging, is to occur on Lot 501 any proposed waste disposal from the site is to be located on the site OR in accordance with relevant requirements for parcels on the Environmental Management Register.**

Note: Respective approvals must be obtained by the applicant where placement of material outside of this lot is proposed.

ENVIRONMENT

Acid Sulphate Soils

55. ***In the event acid sulphate soils are disturbed/excavated during construction or operations, and require treatment on site or any land owned by GPC, a site specific acid sulphate management plan, including treatment locality and volumes and disposal locality, must be submitted to the Assessment Manager for approval prior to such works commencing. Upon approval of the management plan, the works must be carried out in accordance with this plan and the plan will form part of the Approved plans.***

Construction Environmental Management Plan

56. Prior to construction works commencing on site, a Construction Environmental Management Plan (CEMP) prepared by a suitably qualified person specific to the construction works must be submitted to the Assessment Manager for approval. The CEMP must be regularly reviewed and amended as staged works progress.

The construction works must be undertaken in accordance with the approved CEMP that ensures:

- (a) environmental risks are identified, managed and continually assessed and reviewed; and
- (b) that staff are trained and aware of their obligations under the CEMP; and
- (c) that reviews of environmental performance are undertaken at least annually; and
- (d) any amendments to the CEMP are to be submitted to the Assessment Manager for review and approval.

Operational Environmental Management Plan

57. Prior to operational works commencing on site, an Operational Environmental Management Plan (OEMP) prepared by a suitably qualified person specific to all operational works must be submitted to the Assessment Manager for approval. The OEMP must be regularly reviewed and amended as staged operations progress.

The operational works must be undertaken in accordance with the approved OEMP that ensures:

- (a) environmental risks including the potential to cause environmental nuisance are identified, managed and continually assessed; and
- (b) that staff are trained and aware of their obligations under the OEMP; and
- (c) that reviews of environmental performance are undertaken at least annually; and
- (d) any amendments to the OEMP are to be submitted to the Assessment Manager for review and approval.

Marine Fuel and Oil Spill Management Plan

58. Prior to operational ***works (including tidal works) for each relevant activity or stage*** commencing on site, a Marine Fuel and Oil Spill Management Plan (MFOSMP) specific to spills in the marine environment must be submitted to the Assessment Manager for approval. The MFOSMP must be regularly reviewed and amended as staged operations progress. The MFOSMP can be developed either as a standalone document or as a section of the OEMP.

Spill prevention and response must be undertaken in accordance with the approved MFOSMP that ensures:

- (a) environmental spill risks are identified, managed and continually assessed; and
- (b) adequate spill response equipment is maintained on site; and
- (c) that staff are trained and aware of their obligations under the MFOSMP; and
- (d) that reviews of environmental performance are undertaken at least annually; and

- (e) any amendments to the MFOSMP are to be submitted to the Assessment Manager for review and approval.

Incident notification

59. Gladstone Ports Corporation Limited's Environment Hotline (07) 4976 1617 must be notified of the occurrence of:
- (a) release / spill of contaminants (e.g. fuels / chemicals / sewerage) greater than **20L** to land; or
 - (b) release / spill of contaminants (e.g. fuels / chemicals / sewerage) to water; or
 - (c) any environmental complaints received by the holder of this approval; or
 - (d) non-compliance with conditions of this approval or any other environmental approval obtained in relation to the approved activity.
60. When required by the Assessment Manager, noise monitoring must be undertaken upon receipt of a **valid** complaint, to ensure that relevant acoustic quality objectives defined in the Environmental Protection (Noise) Policy 2019 are being achieved. The method of measurement of noise should be consistent with the latest edition of the Department of Environment and Science Noise Measurement Manual. The monitoring results must be provided to the Assessment Manager.

1. *Deleted.*
2. ***Prior to carrying out any works that affect Council's roads, an application to carry out work on roads is required to be submitted to the Bundaberg Regional Council.***
3. The operations of the facility are to be in accordance with the Maritime Transport and Offshore Facilities Security Act 2003 (Cth). Any operations involving security regulated shipping will require obtaining an approved Maritime Security Plan.
4. Any construction activities that involve the excavation and removal from site of 5,000t or more of material per annum will trigger an approval for Environmentally Relevant Activity 16 (2b) e.g. in relation to site development earthworks, removal of existing revetment or dock excavation earthworks.
5. ***All other relevant approvals must be obtained before commencement of the development or operation of the development, including any Building works or Plumbing and drainage works.***
6. ***Where a permit to Dig/Excavate prior to commencing excavation or digging for the development, the proponent or their contractors are required to apply for and obtain the permit by contacting the GPC on 4976 1314 or planning@gpcl.com.au.***
7. ***Where a construction compound or laydown area is required, the proponent or their contractor is required to apply for and obtain a Consent to Enter from the GPC's Property Specialist via 07 4976 1334 or property@gpcl.com.au prior to works commencing.***
8. ***Where works are to be undertaken outside tenured areas, the proponent or their contractor is required to apply for and obtain Consent to Enter from GPC's Property specialist via 07 4976 1334 or property@gpcl.com.au prior to works commencing.***
9. ***The Environmental Protection Act 1994 states that a person must not carry out any activity that causes, or is likely to cause, environmental harm unless the person takes all reasonable and practicable measures to prevent or minimise the harm. Environmental harm includes environmental nuisance. In this regard persons and entities, involved in the civil, earthworks, construction, and operational phases of this development, are to adhere to their 'general environmental duty' to minimise the risk of causing environmental harm.***
10. ***This decision notice does not represent an approval to commence Building work.***
11. ***Connections to water and sewerage infrastructure will require Plumbing and Drainage works approvals from a suitably qualified person.***
12. ***Landscaping on site it to comply with requirements to register the facility in accordance with the 'First point of entry biosecurity standards (ports)'.***
13. ***All navigational changes are to be approved by MSQ and/ or the Regional Harbour master. Operational work for navigational signs and aids is 'accepted, subject to requirements' of the Port of Bundaberg Land use plan 2020 (at date of decision).***
14. ***Where the applicant is required to submit further documentation to the Assessment Manager, this is to be directed to the Planning section at planning@gpcl.com.au, including reference to the allocated development application number.***
15. ***For the purpose of providing street addresses for deliveries and emergency vehicles, the street addresses for the premises can be advised upon request.***
16. ***The provision of a substation referred to within the approved plans at the site is nominally 'Accepted development subject to requirements' under the Port of Bundaberg Land Use***

Plan 2020 in force at the time of this approval. Assessment against the relevant outcomes of the Land Use Plan is to be undertaken prior to construction to ensure the proposal does not trigger assessable development.

- 17. Refuelling of vessels used in construction must be undertaken in accordance with DTMR's Guide for the prevention of ship-sourced pollution and for the safe transfer of bunkers in Queensland waters for the Safe transfer of bunker.***
- 18. The Wash-bay and Treatment Facility is not authorised to discharge to site and has not been considered within the assessment as part of reticulated infrastructure.***

PART 2: REFERRAL AGENCY CONDITIONS

Referral Agency Name: Department of State Development, Infrastructure, Local Government and Planning



SARA reference: 2207-30170 SRA
 Council reference: DA2018/10/04
 Applicant reference:

20 September 2022

Chief Executive Officer
 Port of Gladstone Ports Corporation Limited
 PO Box 259
 Gladstone Qld 4680
planning@gpcl.com.au

Attention: Sir/Madam

Dear Sir/Madam

SARA response—Buss Street, 45 Wharf Drive, Creevey Road & 15 Creevey Road, Burnett Heads

(Referral agency response given under section 56 of the *Planning Act 2016*)

The development application described below was confirmed as received by the State Assessment and Referral Agency (SARA) on 1 August 2022.

Response

Outcome:	Referral agency response – with conditions.
Date of response:	20 September 2022
Conditions:	The conditions in Attachment 1 must be attached to any development approval.
Advice:	Advice to the applicant is in Attachment 2 .
Reasons:	The reasons for the referral agency response are in Attachment 3 .

Development details

Description:	Development permit	‘Other’ change to DA2018/10/02 for: <ul style="list-style-type: none"> Material Change of Use for Marine Industry Base on Strategic Port Land and Environmentally Relevant Activity (ERA) 16 (c) - Extraction and Screening
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1: Dredging, in a year, more than 100,000t but not more than 1,000,000t.

- Operational Work for Tidal Works (dredging, reclamation and construction of sheet pile wharf, dock, additional piles, stormwater outfall and navigational aids).

SARA role:	Referral Agency
SARA trigger:	Schedule 10, Part 5, Division 4, Table 2, Item 1 (Planning Regulation 2017) – Development application involving environmentally relevant activities Schedule 10, Part 17, Division 3, Table 1, Item 1 (Planning Regulation 2017) – Development application involving tidal works in a coastal management district Schedule 10, Part 17, Division 3, Table 2, Item 1 (Planning Regulation 2017) – Development application involving tidal works in tidal waters
SARA reference:	2207-30170 SRA
Assessment Manager:	Port of Gladstone Ports Corporation Limited
Street address:	Buss Street, 45 Wharf Drive, Creevey Road & 15 Creevey Road, Burnett Heads
Real property description:	Lot 276 on SP128643, Lot 287 on SP166199, Lot 501 on SP279707, Lot 5 on RP7193, Lot 6 on RP7193 and Lot 6 on SP166192
Applicant name:	Pacific Marine Base Bundaberg Pty Ltd
Applicant contact details:	9 Thompson Street Bowen Hills QLD 4006 alexpreston@saundershavill.com

Representations

An applicant may make representations to a concurrence agency, at any time before the application is decided, about changing a matter in the referral agency response (s.30 Development Assessment Rules) Copies of the relevant provisions are in **Attachment 4**.

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

For further information please contact John Irving, Principal Planner, on 47583421 or via email DAAT@dsdilgp.qld.gov.au who will be pleased to assist.

Yours sincerely

A handwritten signature in black ink, appearing to read 'C. Aston', written over a light grey rectangular background.

Christopher Aston
State Planner

cc Pacific Marine Base Bundaberg Pty Ltd, alexpreston@saundershavill.com

enc Attachment 1 - Referral agency conditions
Attachment 2 - Advice to the applicant
Attachment 3 - Reasons for referral agency response
Attachment 4 - Representations provisions
Attachment 5 - Approved plans and specifications

Attachment 1—Referral agency conditions

(Under section 56(1)(b)(i) of the *Planning Act 2016* the following conditions must be attached to any development approval relating to this application) (Copies of the plans and specifications referenced below are found at Attachment 5)

No.	Conditions	Condition timing
Operational work		
The chief executive administering the <i>Planning Act 2016</i> nominates the Director-General of the Department of Transport and Main Roads to be the enforcement authority for the development to which this development approval relates for the administration and enforcement of any matter relating to the following condition(s):		
1.	<p>(a) Provide written notice to Regional Harbour Master Gladstone (Gladstone.RHM@msg.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 Regional Harbour Master Gladstone (Gladstone.RHM@msg.qld.gov.au) when the development authorised under this approval has been completed.</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>(a) At least 20 business days prior to the commencement of works</p> <p>(b) Within 20 business days of the completion of works</p>
2.	<p>(a) 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>(b) Lighting provided must not obscure, disguise or otherwise interfere with the effectiveness of navigational lighting.</p>	For the duration of works
3.	<p>(a) 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>(b) Lighting provided must not obscure, disguise or otherwise interfere with the effectiveness of navigational lighting.</p>	At all times
4.	The construction, operation or maintenance of the structure, and any ship moored at this structure, must not restrict safe access to or from neighbouring structures.	At all times
The chief executive administering the <i>Planning Act 2016</i> nominates the Director-General of the Department of Environment and Science to be the enforcement authority for the development to which this development approval relates for the administration and enforcement of any matter relating to the following condition(s):		
5.	The dredging and construction of the associated tidal works must be	For the duration of

	<p>undertaken generally in accordance with the following plans:</p> <ul style="list-style-type: none"> - General Layout Plan drawing number 0888-C0100, revision A, as amended in red by SARA - Site Sections Sheet 1 of 4, drawing number 0888-C0620, revision A, as amended in red by SARA - Site Sections Sheet 2 of 4, drawing number 0888-C0620, revision A, as amended in red by SARA - Maritime Notes and Typical Section, drawing number 0888-K0000, revision A, as amended in red by SARA - Stage 2 Maritime Layout, drawing number 0888-K0020, revision B, as amended in red by SARA - Stage 1 Works – Structural Cell Set Out, drawing number 0888-K0115, revision 1 - Stage 2 Works – Structural Cell Set Out, drawing number 0888-K0116, revision 0 - Stage 1 Works – Structural Ramp Details, drawing number 0888-K0120, revision 1, as amended in red by SARA - Stage 2 Works – Structural Wharf Typical Sections and Details, drawing number 0888-K0127, revision 0 - Stage 2 Works – Structural Fender and Bollard Layout, drawing number 0888-K0138, revision 0 - Stage 1 Rock Wall Plan and Elevation, drawing number 0888-K0410, revision A, as amended in red by SARA - Stage 1 Rock Wall Typical Sections, drawing number 0888-K0420, revision A - Stage 1 and 2 Typical Sections and Details Sheets 1-5, drawing number 0888-K0570 – 0888-K0574, revision A - Stage 1 and 2 Dredging and Reclamation Plan, drawing number 0888-K0600, revision A, as amended in red by SARA. 	the works
6.	For the proposed works, only use clean materials and ensure that the works do not cause contamination.	For the duration of the works
7.	Erosion and sediment control measures which are in accordance with Best Practice Erosion and Sediment Control (BPESC) guidelines for Australia (International Erosion Control Association), are to be installed and maintained to prevent the release of sediment to tidal waters.	For the duration of the works
8.	Should any erosion control structures or berth pocket infrastructure collapse, fail or otherwise suffer structural consequences which impact their integrity or ability to function as intended, the works must be: <ul style="list-style-type: none"> i. reinstated in accordance with this development approval; or ii. removed and disposed of at an appropriately licensed facility. 	As soon as reasonably practicable subsequent to the damage
9.	<p>(a) Obtain RPEQ certification confirming that the tidal works, have been constructed in accordance with the current version of the Department's guideline 'Building and engineering standards for tidal works.</p> <p>(b) Provide a copy of the certification must be provided to the Department of Environment and Science at palm@des.qld.gov.au</p>	Within 20 business days of the completion of the works

	<p>or mail to: Permit and Licence Management Implementation and Support Unit GPO Box 2454 Brisbane Qld 4001</p>	
10.	<p>Provide "As Constructed drawings" to the Department of Environment and Science at palm@des.qld.gov.au or mail to: Permit and Licence Management Implementation and Support Unit GPO Box 2454 Brisbane Qld 4001</p>	<p>Within 20 business days of the completion of the works</p>
11.	<p>(a) In the event that the works cause disturbance or oxidisation of acid sulfate soil, the affected soil must be treated and thereafter managed (until the affected soil has been neutralised or contained) in accordance with the current Queensland Acid Sulfate Soil Technical Manual: Soil management guidelines, prepared by the Department of Science, Information Technology, Innovation and the Arts, 2014.</p> <p>(b) Provide certification by a an appropriately qualified person, confirming that the affected soil has been neutralised or contained, in accordance with (a) above to the Department of Environment and Science at palm@des.qld.gov.au or mail to: Permit and Licence Management Implementation and Support Unit GPO Box 2454 Brisbane Qld 4001</p> <p><i>Note: Appropriately qualified person means a person or persons who has professional qualifications, training, skills and experience relevant to soil chemistry or acid sulfate soil management and can give authoritative assessment, advice and analysis in relation to acid sulfate soil management using the relevant protocols, standards, methods or literature.</i></p>	<p>(a) Upon disturbance or oxidisation until the affected soil has been neutralised or contained</p> <p>(b) At the time the soils have been neutralised or contained</p>
<p>Material change of use</p>		
<p>The chief executive administering the <i>Planning Act 2016</i> nominates the Director-General of the Department of Environment and Science to be the enforcement authority for the development to which this development approval relates for the administration and enforcement of any matter relating to the following condition(s):</p>		
12.	<p>The dredging must be undertaken generally in accordance with the following plans:</p> <ul style="list-style-type: none"> - Maritime Notes and Typical Section, drawing number 0888-K0000, revision A - Stage 2 Maritime Layout, drawing number 0888-K0020, revision B, as amended in red by SARA - Stage 1 and 2 Typical Sections and Details Sheets 1-5, drawing number 0888-K0570 – 0888-K0574, revision A, as amended in red by SARA - Stage 1 and 2 Dredging and Reclamation Plan, drawing 	<p>Prior to the commencement of use and to be maintained at all times</p>

	number 0888-K0600, revision A, as amended in red by SARA.	
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Attachment 2—Advice to the applicant

General advice	
1.	<p>State Development Assessment Provisions</p> <p>Terms and phrases used in this document are defined in the <i>Planning Act 2016</i> its regulation or the State Development Assessment Provisions (SDAP) v3.0. If a word remains undefined it has its ordinary meaning.</p>
3.	<p>Allocation of Quarry Material</p> <p>Given part of the proposed dredging is located within Unallocated State Land and is to be placed above the high-water mark, the proposed works is likely to require an allocation of quarry material permit under section 73 of the <i>Coastal Protection and Management Act 1995</i>.</p> <p>Further information on allocations of quarry material is available at the following site https://www.business.qld.gov.au/running-business/environment/licences-permits/dredging-quarry.</p>

Attachment 3—Reasons for referral agency response

(Given under section 56(7) of the *Planning Act 2016*)

The reasons for SARA's decision are:

1. The development complies with State code 7: *Maritime safety* of the State Development Assessment Provisions (SDAP). All vessels, structures, plant and equipment associated with the project will be lit/marked in accordance with the required standards such that they do not cause a risk to navigation safety.
2. The development complies with State code 8: *Coastal development and tidal works* of SDAP. Specifically, the development:
 - will not significantly impact coastal processes
 - does not cause a significant residual impact to any matters of state environmental significance.
3. The development complies with State code 22: *Environmentally relevant activities* of SDAP. Specifically, the development:
 - is located and designed to avoid or mitigate environmental harm on environmental values of the natural environment, adjacent sensitive land uses and sensitive receptors
 - avoids impacts on matters of state environmental significance, and where avoidance is not reasonably possible, minimises and mitigates impacts
 - adequately mitigates impacts associated with the environmentally relevant activity.

Material used in the assessment of the application:

- The development application material and submitted plans
- Planning Act 2016
- Planning Regulation 2017
- The State Development Assessment Provisions (version 3.0), as published by SARA
- The Development Assessment Rules
- SARA DA Mapping system

Attachment 4—Change representation provisions

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Development Assessment Rules—Representations about a referral agency response

The following provisions are those set out in sections 28 and 30 of the Development Assessment Rules¹ regarding **representations about a referral agency response**

Part 6: Changes to the application and referral agency responses

28 Concurrence agency changes its response or gives a late response

- 28.1. Despite part 2, a concurrence agency may, after its referral agency assessment period and any further period agreed ends, change its referral agency response or give a late referral agency response before the application is decided, subject to section 28.2 and 28.3.
- 28.2. A concurrence agency may change its referral agency response at any time before the application is decided if—
- (a) the change is in response to a change which the assessment manager is satisfied is a change under section 26.1; or
 - (b) the Minister has given the concurrence agency a direction under section 99 of the Act; or
 - (c) the applicant has given written agreement to the change to the referral agency response.²
- 28.3. A concurrence agency may give a late referral agency response before the application is decided, if the applicant has given written agreement to the late referral agency response.
- 28.4. If a concurrence agency proposes to change its referral agency response under section 28.2(a), the concurrence agency must—
- (a) give notice of its intention to change its referral agency response to the assessment manager and a copy to the applicant within 5 days of receiving notice of the change under section 25.1; and
 - (b) the concurrence agency has 10 days from the day of giving notice under paragraph (a), or a further period agreed between the applicant and the concurrence agency, to give an amended referral agency response to the assessment manager and a copy to the applicant.

¹ Pursuant to Section 68 of the *Planning Act 2016*

² In the instance an applicant has made representations to the concurrence agency under section 30, and the concurrence agency agrees to make the change included in the representations, section 28.2(c) is taken to have been satisfied.

Part 7: Miscellaneous

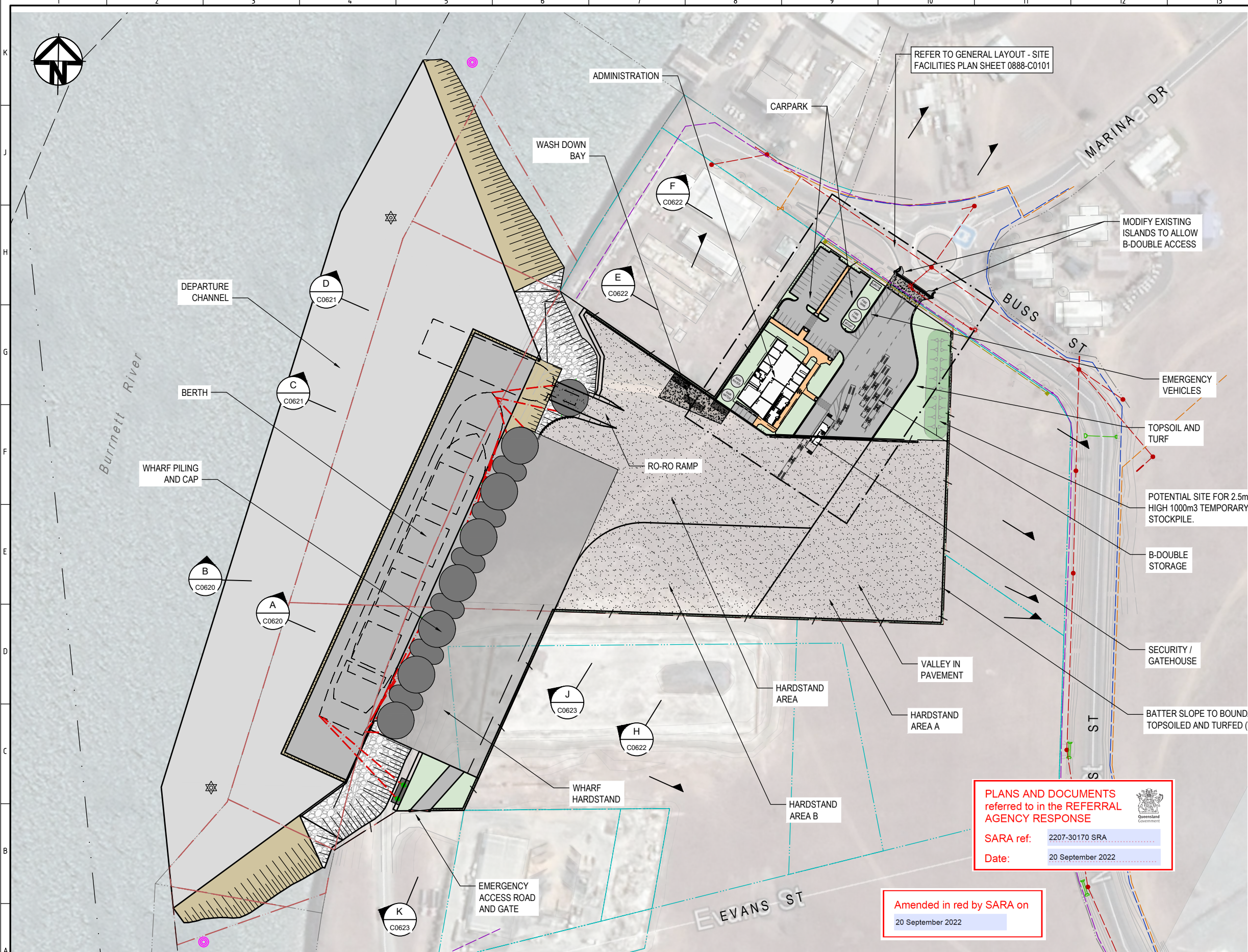
30 Representations about a referral agency response

30.1. An applicant may make representations to a concurrence agency at any time before the application is decided, about changing a matter in the referral agency response.³

³ An applicant may elect, under section 32, to stop the assessment manager's decision period in which to take this action. If a concurrence agency wishes to amend their response in relation to representations made under this section, they must do so in accordance with section 28.

Attachment 5—Approved plans and specifications

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LEGEND - CIVIL

- LEASE BOUNDARY
- CADASTRE BOUNDARY
- FENCE
- HINGED GATE ON POST
- SLIDING JACK GATE
- ASPHALT WEARING SURFACE
- TOPSOILS (REFER STD DWG R1030)
- LANDSCAPE TOPSOIL AND TURF
- HARDSTAND
- CONCRETE
- WHARF PILES AND HARDSTAND

LEGEND - MARITIME

- DEPARTURE CHANNEL
- BERTH
- 1 in 3 DREDGE BATTER
- ROCK PROTECTION

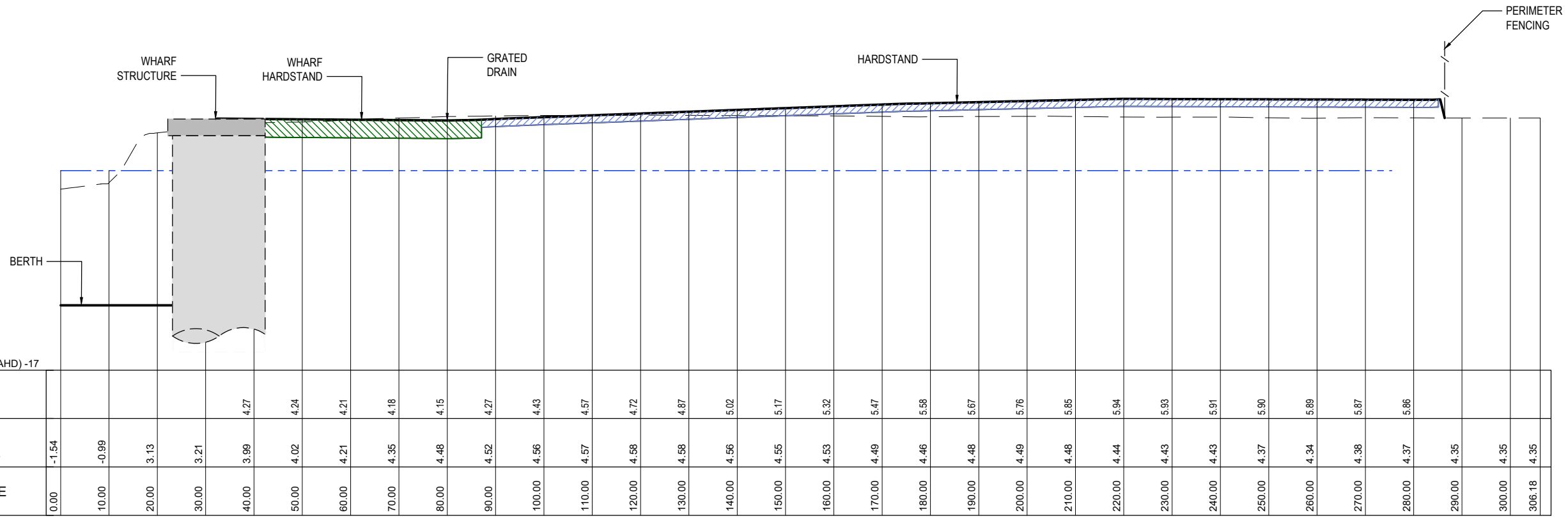
- NOTES**
- FOR GENERAL NOTES REFER TO DRAWING 0888-C0001.
 - WHERE SHOWN, SERVICES AND LOCATIONS ARE INDICATIVE ONLY AND SYMBOLS ARE NOT TO SCALE.

SITE PARTICULARS

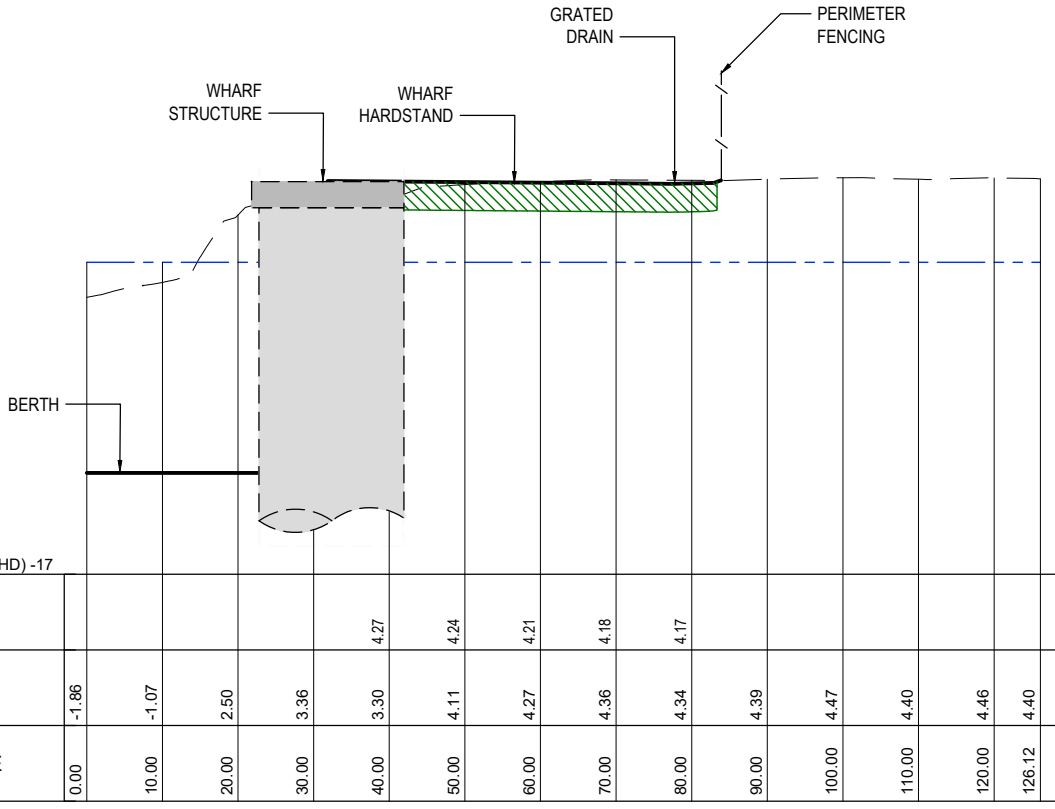
TOTAL LAND AREA (DEVELOPED)	42,738 m ²
TIDAL AREA (DREDGING)	46,667 m ²
BUILDINGS	
ADMINISTRATION	850 m ²
SECURITY / GATEHOUSE	110 m ²
TOTAL BUILDING AREA	960 m²
BUILDING (COVERAGE OF TOTAL LAND AREA)	2.25 %
PAVEMENT	
SEALED AREA	36,935 m ²
UNSEALED AREA (ROCKWALL ETC)	1,443 m ²
TOTAL PAVEMENT AREA	38,378 m²
LANDSCAPING	
TOTAL LANDSCAPING PROVISION	3,400 m ²
LANDSCAPING PROVISION (COVERAGE OF TOTAL LAND AREA)	7.96 %
PARKING	
SEALED CARPARK (PUBLIC)	1 SLOTS
SEALED CARPARK (DISABLED)	1 SLOTS
SEALED CARPARK (WITHIN FACILITY)	5 SLOTS
B-DOUBLE STORAGE AT GATEHOUSE	4 SLOTS

SITE PLAN
SCALE 1:1000

<p>CONSULTANT LOGO</p> <p>LONJAC CIVIL • MARINE • MANAGEMENT</p> <p>976 PINE CREEK ROAD, Eleetra, Queensland, 4670 Ph +61 (0) 499 000 202 jim@lonjac.net.au</p>		<p>SURVEY / DESIGN REFERENCES</p> <p>Survey By - INSITE SJC Dated - 03.08.2021 Horizontal datum - MGA 94 ZONE 56 PH 3853 Vertical datum - AHD (LAND BASED) LAT (MARINE - WHERE NOTED)</p> <p>COPYRIGHT PROTECTS THIS PUBLICATION, EXCEPT FOR PURPOSES PERMITTED BY THE COPYRIGHT ACT. REPRODUCTION BY WHATEVER MEANS IS PROHIBITED WITHOUT THE PRIOR WRITTEN PERMISSION OF PACIFIC MARINE BASE BUNDBERG</p>		<p>CLIENT</p> <p>BUNDBERG Pacific Marine Base Ship Repair Barging Project Support</p>		<p>DESIGNED BY J.LAWLEY MAY 2022 DES CHK - DRAWN M.COLLINGS MAY 2022 DRG CHK J.LAWLEY JUN 2022 REGISTERED PROFESSIONAL J.LAWLEY REGISTRATION LONJAC PTY LTD SIGNATURE No 22281 Date 29.6.2022</p>		<p>PROJECT</p> <p>PACIFIC MARINE BASE BUNDBERG MARINE INDUSTRY SITE DRAWING TITLE GENERAL LAYOUT PLAN</p>		<p>SCALE AS SHOWN</p> <p>DRG NO. 0888 - C0100</p> <p>REV A</p>	
REV	DATE	DESCRIPTION	BY	REVIEWED	APPROVED	<p>0 10 20 30 40 50m SCALE 1:1000 AT ORIGINAL SIZE</p>					



SECTION B
SCALE 1:500H 1:200V



SECTION A
SCALE 1:500H 1:200V

PLANS AND DOCUMENTS referred to in the REFERRAL AGENCY RESPONSE

SARA ref: 2207-30170 SRA

Date: 20 September 2022

Amended in red by SARA on 20 September 2022

LEGEND:

- TYPE A HARDSTAND
- TYPE B TRANSPORT AREA
- TYPE C ACCESS ROAD
- TYPE D PASSENGER CARPARKS
- TYPE E VESSEL WASH BAY (HIGH FREQUENCY)
- TYPE F (WHARF)
- TYPE G (GREEN AREAS)
- TYPE H (BUILDING)

REV	DATE	DESCRIPTION	BY	REVIEWED	APPROVED
A	25.6.22	ISSUED FOR DEVELOPMENT APPROVAL	MC	JL	-

CONSULTANT LOGO

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Electra,
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jim@lonjac.net.au

SURVEY / DESIGN REFERENCES

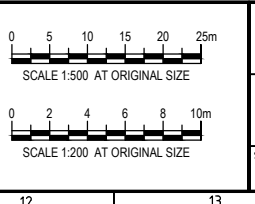
Survey By - INSITE SJC
Dated - 03.08.2021
Horizontal datum - MGA 94 ZONE 56
PM 3853
Vertical datum - AHD (LAND BASED)
LAT (MARINE - WHERE NOTED)

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CLIENT

Ship Repair | Barging | Project Support

DESIGNED BY	J.LAWLEY	MAY 2022
DESIGN CHECK	-	-
DRAWN	M.COLLINGS	MAY 2022
DRG CHK	J.LAWLEY	JUN 2022
REGISTERED PROFESSIONAL	J.LAWLEY	
REGISTRATION	LONJAC PTY LTD	
SIGNATURE		
No.	22281	
Date	29.6.2022	



PROJECT

PACIFIC MARINE BASE BUNDABERG
MARINE INDUSTRY SITE

DRAWING TITLE

SITE SECTIONS
SHEET 1 OF 4

SCALE AS SHOWN

DRG NO. 0888 - C0620

REV A

WHARF STRUCTURE / RO-RO RAMP

HARDSTAND

HARDSTAND

PERIMETER FENCING

BERTH

RADIUS

DATUM R.L. (AHD) -17

DESIGN FSL	EXISTING SURFACE	CHAINAGE
	-1.92	0.00
	-1.38	10.00
	2.57	20.00
	2.85	30.00
	2.72	40.00
	3.25	50.00
	3.82	60.00
	3.98	70.00
	4.10	80.00
	4.15	90.00
	4.19	100.00
	4.22	110.00
	4.25	120.00
	4.36	130.00
	4.37	140.00
	4.35	150.00
	4.32	160.00
	4.30	170.00
	4.27	180.00
	4.25	190.00
	4.23	200.00
	4.19	210.00
	4.13	220.00
	4.08	230.00
	4.06	240.00
	4.04	250.00
	3.97	260.00
	4.00	270.00
	4.06	280.00
	4.08	283.28

SECTION

SCALE 1:500H 1:200V



WHARF STRUCTURE

WHARF HARDSTAND

GRATED DRAIN

HARDSTAND

PERIMETER FENCING

BERTH

RADIUS

DATUM R.L. (AHD) -17

DESIGN FSL	EXISTING SURFACE	CHAINAGE
	-1.67	0.00
	-1.10	10.00
	3.00	20.00
	2.79	30.00
	4.07	40.00
	4.22	50.00
	4.28	60.00
	4.31	70.00
	4.40	80.00
	4.46	90.00
	4.50	100.00
	4.54	110.00
	4.51	120.00
	4.51	130.00
	4.52	140.00
	4.51	150.00
	4.48	160.00
	4.46	170.00
	4.48	180.00
	4.50	190.00
	4.49	200.00
	4.47	210.00
	4.47	220.00
	4.49	230.00
	4.49	236.17

SECTION

SCALE 1:500H 1:200V



PLANS AND DOCUMENTS referred to in the REFERRAL AGENCY RESPONSE



SARA ref: 2207-30170 SRA

Date: 20 September 2022

Amended in red by SARA on

20 September 2022

LEGEND:

- TYPE A HARDSTAND
- TYPE B TRANSPORT AREA
- TYPE C ACCESS ROAD
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- TYPE E WASH BAY (HIGH FREQUENCY)
- TYPE F (WHARF)
- TYPE G (GREEN AREAS)
- TYPE H (BUILDING)

REV	DATE	DESCRIPTION	BY	REVIEWED	APPROVED
A	25.6.22	ISSUED FOR DEVELOPMENT APPROVAL	MC	JL	-

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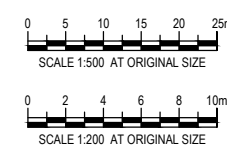
SURVEY / DESIGN REFERENCES
Survey By - INSITE SJC
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CLIENT



DESIGNED BY	J.LAWLEY	MAY 2022
DES CHK	-	-
DRAWN	M.COLLINGS	MAY 2022
DRG CHK	J.LAWLEY	JUN 2022
REGISTERED PROFESSIONAL	J.LAWLEY	
REGISTRATION	LONJAC PTY LTD	
SIGNATURE		
No.	22281	
Date.	29.6.2022	



PROJECT
PACIFIC MARINE BASE BUNDABERG
MARINE INDUSTRY SITE

DRAWING TITLE
SITE SECTIONS
SHEET 2 OF 4

SCALE
AS SHOWN

DRG NO.
0888 - C0620

REV
A

GENERAL

- G1. THESE DRAWINGS ARE TO BE READ IN CONJUNCTION WITH THE CONTRACT AND RELEVANT PROJECT SPECIFICATIONS.
G2. ALL MATERIALS AND WORKMANSHIP SHALL COMPLY WITH THE PROJECT SPECIFICATIONS, ALL RELEVANT AUSTRALIAN STANDARDS, INTERNATIONAL STANDARDS AND STATUTORY REGULATIONS.
G3. THE WORK IS TO BE CARRIED OUT IN A SAFE MANNER IN ACCORDANCE WITH THE APPLICABLE LEGISLATION, STATUTORY REGULATIONS, BY-LAWS OR RULES.
G4. THE CONTRACTOR IS RESPONSIBLE FOR OCCUPATIONAL HEALTH AND SAFETY OF SITE PERSONNEL AND GENERAL PUBLIC IN ACCORDANCE WITH ALL CURRENT WORK HEALTH AND SAFETY ACTS, LEGISLATIVE REQUIREMENTS, APPLICABLE REGULATIONS AND CODES OF PRACTICE, INDUSTRIAL AGREEMENTS AND ACCEPTED INDUSTRIAL PRACTICE.
G5. THE CONTRACTOR IS TO OBTAIN ALL NECESSARY PERMITS AND APPROVALS FROM RELEVANT AUTHORITIES BEFORE COMMENCING WORK ON SITE AND NOTIFY RELEVANT SERVICE AUTHORITIES BEFORE COMMENCING WORK ON SITE.
G6. DIMENSIONS ARE NOT TO BE OBTAINED BY SCALING FROM DRAWINGS.
G7. DIMENSIONS ARE IN MILLIMETRES UNLESS OTHERWISE STATED.
G8. SERVICES SHOWN ON DRAWINGS ARE APPROXIMATE LOCATIONS ONLY.
G9. SERVICES OTHER THAN THOSE SHOWN MAY EXIST ON SITE.
G10. THE CONTRACTOR IS TO ESTABLISH THE LOCATION OF ALL SERVICES LOCATED WITHIN THE DESIGNATED WORK AREA/S PRIOR TO COMMENCING WORK AND MARK LOCATIONS OF SERVICES CLEARLY ON SITE, AND ON AS-BUILT DRAWINGS.
G11. THE CONTRACTOR IS TO PROTECT EXISTING STRUCTURES AND SERVICES FROM DAMAGE OR CRACKING AND MAKE GOOD ANY DAMAGE TO EXISTING ELEMENTS ON COMPLETION OF WORKS.
G12. WHERE NEW WORK ADJUTS EXISTING, THE CONTRACTOR IS TO PROVIDE SMOOTH TRANSITION FREE OF ABRUPT CHANGES.
G13. CONSTRUCTION METHODS AND TEMPORARY WORKS ARE THE RESPONSIBILITY OF THE CONTRACTOR. THE STRUCTURE IS TO BE MAINTAINED IN A STABLE CONDITION DURING CONSTRUCTION WITH TEMPORARY BRACING AND/OR SUPPORT PROVIDED AS REQUIRED.
G14. TEMPORARY MEMBERS ARE TO BE SHOWN ON SHOP DRAWINGS. BRACER BEAMS AND/OR LIFTING POINTS ARE TO BE PROVIDED WHERE REQUIRED.
G15. THE CONTRACTOR IS TO ENSURE NO PART OF THE STRUCTURE IS OVERSTRESSED.
G16. THE CONTRACTOR IS TO OBTAIN ADVICE AND CALCULATIONS FROM A SUITABLY QUALIFIED ENGINEER AS REQUIRED TO PROVE THE ADEQUACY OF THE STRUCTURE FOR THE PROPOSED CONSTRUCTION SEQUENCE, METHODS AND LOADS INCLUDING PROPPING, CRANE LIFTS, STORAGE OF MATERIALS etc.

SURVEY CONTROL

- G18. ALL LEVELS ARE IN METERS TO LAT (and AHD).
G19. SURVEY AND SETTING OUT ARE TO BE UNDERTAKEN BY A REGISTERED SURVEYOR.
G20. SITE SET OUT DIMENSIONS ARE TO BE VERIFIED BEFORE COMMENCING CONSTRUCTION. EXISTING STRUCTURES SHOWN ON DRAWINGS ARE IN APPROXIMATE LOCATIONS ONLY.
G21. ANY AMBIGUITIES OR DISCREPANCIES SHALL BE REFERRED FOR CLARIFICATION BEFORE WORK COMMENCES.

HYDROGRAPHIC DATA

- G22. EXISTING BATHYMETRY INFERRED FROM QUEENSLAND GOVERNMENT 'BUNDABERG SWING BASIN POST-BEDLEVELLING HYDROGRAPHIC SURVEY' DATED 11 MAY 2017, PLAN No. F002-054.
G23. NAVIGATION AIDS AND CHANNEL LIMITS TAKEN FROM QUEENSLAND GOVERNMENT 'BUNDABERG HARBOR CONTROL PLAN', DATED FEBRUARY 2016, PLAN No. F001-002.

SITE ADDRESS

BURNETT HEADS, BUNDABERG, QUEENSLAND 4670
LEASE AU on SP305678, LEASE AY on SP335869 all in LOT 501 on SP279707, SUB-LEASE AW on SP305678, SUB-LEASE AZ on SP335869, SUB-LEASE BA AND BB on SP335870 all in LOT 287 of SP166199, SUB-LEASE BC on SP335870 in LOT 276 on SP128643
LOCAL AUTHORITY: BUNDABERG REGIONAL COUNCIL

DESIGN CRITERIA

STRUCTURES SHALL BE DESIGNED TO THE FOLLOWING PARAMETERS:

- 1. DESIGN LIFE: 30 YEAR MINIMUM WITH MINIMAL MAINTENANCE REQUIRED TO THE PRINCIPAL LOAD BEARING COMPONENTS
2. DESIGN VESSELS:

Table with 5 columns: VESSEL, DISPLACEMENT (tonne), LENGTH (m), BEAM (m), DRAFT (m). Rows include DESIGN VESSEL STAGE 1 and DESIGN VESSEL STAGE 2.

- 3. VESSEL BERTHING - 0.5° UNDER NORMAL BERTHING CONDITIONS, BERTHING ANGLE 1.5° DEGREES. ABNORMAL FACTOR OF SAFETY - 2.0. MINIMUM UNDERWAY (AT LAT) m
4. DECK LIVE LOAD REFERENCE HARF PLANS
5. WIND LOADS: OPERATIONAL REGIONAL WIND SPEED V500 - 57 m/s OPERATIONAL WIND SPEED V25 - 20 m/s
6. WAVE ACTION: MAX OPERATIONAL WAVE HEIGHT - HS = 0.4m

SAFETY IN DESIGN

- S1D1. THE ADEQUACY OF WORKING SPACE AVAILABLE FOR CONSTRUCTION ACTIVITIES IS TO BE REVIEWED TO ENSURE SEPARATION OF PLANT AND PERSONNEL ON SITE, AND TO PROVIDE FOR THE SAFETY OF PERSONNEL BOTH.
S1D2. THE STABILITY OF ANY TEMPORARY RETAINING WALLS MUST BE REVIEWED BY SUITABLY QUALIFIED ENGINEER. BEFORE MATERIALS CAN BE STOCKPILED OR EXCAVATION UNDERTAKEN.
S1D3. ADVISE FROM A SUITABLY QUALIFIED ENGINEER IS TO BE SOUGHT.
S1D4. DEVELOP STEELWORK / PRECAST INSTALLATION SAFE WORK METHOD STATEMENT TO ELIMINATE AND MINIMISE INSTALLATION RISKS, AND HAVE IT REVIEWED BY SUITABLY QUALIFIED STRUCTURAL ENGINEER PRIOR TO ERECTION.
S1D5. STRUCTURAL MEMBERS ARE NOT TO BE CUT OR UNBOLTED WITHOUT REVIEW BY A SUITABLY QUALIFIED STRUCTURAL ENGINEER.
S1D6. SITE BASED TREATMENTS ARE TO BE MINIMISED (eg WELDING, GRINDING, SPRAY PAINTING, GRIT BLASTING, etc). ADEQUATE PROTECTION, SCREENING AND VENTILATION TO BE PROVIDED TO MINIMISE THE HAZARD TO PERSONNEL IF SITE BASED TREATMENT IS UNAVOIDABLE.
S1D7. WHERE STRUCTURAL ELEMENTS ARE DAMAGED, CRACKS OR HAVE SUFFERED SIGNIFICANT SECTION LOSS THEY ARE TO BE MADE SAFE BEFORE ALLOWING GENERAL CONSTRUCTION OR REPAIR ACCESS.

PILE INSTALLATION

- E4. ALL PILES SHALL BE DESIGNED, CHECKED AND INSTALLED IN ACCORDANCE WITH AS 2159 TO ACHIEVE THE NOMINATED DESIGN LEVELS.
E5. THE CONTRACTOR SHALL UNDERTAKE A DRIVEABILITY ASSESSMENT TO CONFIRM THE REQUIREMENTS FOR PRE-DRILLING AND DRIVING PILES THAT ARE NOT ASSOCIATED WITH THE WHARF.
E6. THE FOUNDING LEVELS AND PILE SIZES OUTLINED ARE INDICATIVE ONLY AND THE CONTRACTOR SHALL DETERMINE THE DEPTHS REQUIRED TO ACHIEVE THE REQUIRED PILE CAPACITIES.
E7. THE GROUND CONDITIONS SHALL BE MONITORED AND REVIEWED BY A SUITABLY QUALIFIED GEOTECHNICAL ENGINEER IF THEY DIFFER FROM THE EXPECTED CONDITIONS.

CONCRETE

- C1. ALL WORKMANSHIP AND MATERIALS ARE TO COMPLY WITH THE REQUIREMENTS OF AS3600, AS3610 AND AS1379.
C2. EXTERNALLY EXPOSED CONCRETE TO BE CLASSIFICATION C2 WITH MIN. COVERS TO COMPLY WITH AS3600 UNO.
C3. CAST IN STEELWORK, OTHER THAN REINFORCEMENT, SHALL BE STAINLESS STEEL UNO.
C4. PROVIDE 50 mm BLINDING CONCRETE UNDER STRUCTURAL REINFORCED CONCRETE CAST ON GROUND UNO.

REINFORCEMENT

- R1. ENSURE REINFORCEMENT CAGES ARE ELECTRICALLY CONTINUOUS UNO AND THAT THE PILE REINFORCEMENT IS ELECTRICALLY CONTINUOUS WITH THE HEADSTOCK REINFORCEMENT.
R2. ENSURE EMBEDDED ITEMS (INSERTS, THREADED SOCKETS, FERRULES, BOLTS, DISSIMILAR METAL ITEMS, etc) IN COVER CONCRETE OR EXPOSED TO AIR ARE NOT IN CONTACT WITH REINFORCEMENT. PROVIDE ISOLATION BETWEEN DISSIMILAR METALS, AND BETWEEN REINFORCEMENT AND EXPOSED ITEMS.
R3. REINFORCEMENT, CAST-IN ITEMS etc ARE NOT TO BE WELDED UNLESS APPROVED BY A SUITABLY QUALIFIED ENGINEER.

STEELWORK

- S1. ALL STEELWORK SHALL BE FABRICATED AND ERECTED IN ACCORDANCE WITH AS 4100, AS/NZS 4600 AND AS/NZS 1554.
S2. STEELWORK FITTED AFTER CONCRETING SHALL HAVE DIMENSIONS CONFIRMED ONSITE PRIOR TO FABRICATION.
S3. FABRICATES SHALL HAVE SHARP EDGES AND CORNERS ROUNDED AND GROUND SMOOTH TO A MINIMUM RADIUS OF 2.0mm.
S4. ALL CORNER SECTIONS OR DETAILS DIFFICULT TO BLAST CLEAN AND SURFACE PROTECT SHALL BE SEALED WITH GALVANNEAL PLATES AND MIN. 4mm SEAL WELDS UNO. WHERE DRAINAGE MAY BE A PROBLEM, THE SEAL PLATES SHALL BE INSTALLED AT AN ANGLE TO SHED WATER.
S5. ALL WELDING SHALL BE STRUCTURAL PURPOSE IN ACCORDANCE WITH AS/NZS 1554 UNO.
S6. ALL SPlicing OF TUBULAR MEMBERS, PILES AND BEAMS SHALL BE FULL PENETRATION BUTT WELDS UNLESS OTHERWISE SPECIFIED.
S7. ALL DIFFERENT MATERIALS (STEEL, SS, GALV, ALUMINIUM, ETC) SHALL BE SEPARATED BY INSULATING. BOLT INSULATION SHALL BE PROVIDED WITH A 1mm THICK NYLON SLEEVE ON BOLT SHANK AND 3mm THICK UHMWPE WASHERS UNDER BOLT HEAD AND NUT.

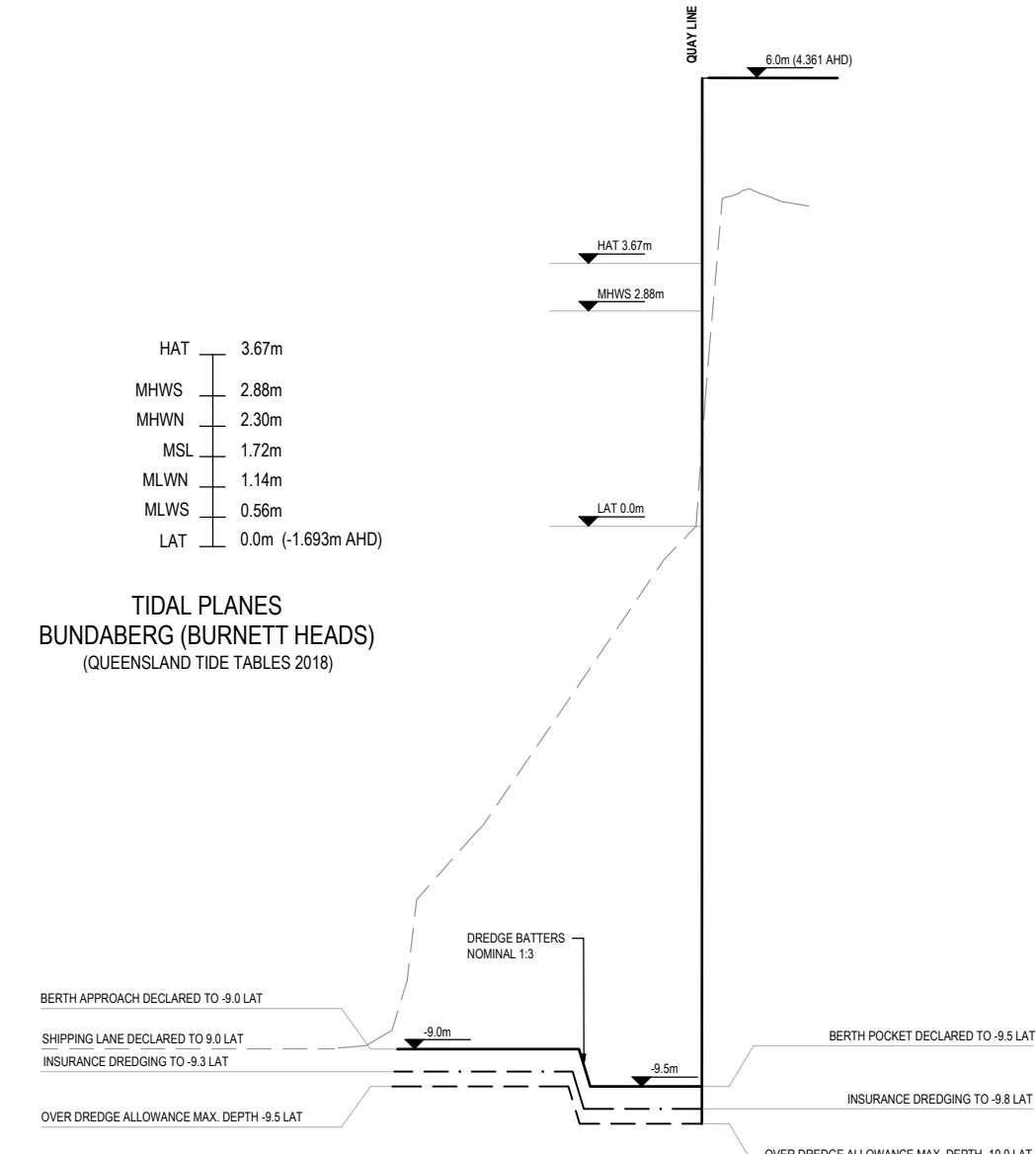
PROTECTIVE COATINGS

- PC1. PROTECTIVE COATINGS SHALL BE APPLIED TO ANY STRUCTURAL STEEL WORK THAT IS EXPOSED TO ATMOSPHERIC CONDITIONS.
PC2. STEEL ELEMENTS THAT REQUIRE A PROTECTIVE COATING TO BE APPLIED SHALL HAVE A MINIMUM RADIUS OF 2mm ON ALL EDGES.
PC3. PROTECTIVE COATING SYSTEM TO BE SUITABLE TO ACHIEVE A 10-YEAR TIME TO FIRST MAINTENANCE FOR A CS-M ENVIRONMENT IN ACCORDANCE WITH THE REQUIREMENTS OF AS/NZS 2312.1. COATING SHALL BE A HIGH SOLIDS POLYURETHANE COATING SYSTEM WITH THE MINIMUM NUMBER OF COATS REQUIRED TO ACHIEVE A MINIMUM DRY FILM THICKNESS OF 400 MICRONS UNLESS OTHERWISE ACCEPTED BY THE SUPERINTENDENT.
PC4. SURFACE PREPARATION TO THE STEEL ELEMENTS SHALL INVOLVE THOROUGH BLAST CLEANING TO ACHIEVE A CLASS SA 2.5 FINISH IN ACCORDANCE WITH AS 1627.
PC5. THE PROTECTIVE COATING SYSTEMS SHALL BE APPLIED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.
PC6. PERMANENTLY IMMERSED STEEL ELEMENTS SHALL BE PROTECTED BY MEANS OF CATHODIC PROTECTION, PROTECTIVE COATINGS AS PER THAT FOR ATMOSPHERIC REGIONS OR OTHERWISE AS APPROVED BY A SUITABLY QUALIFIED ENGINEER AFTER INITIAL ASSESSMENT OF PERFORMANCE.

CONSTRUCTION METHOD (ANTICIPATED)

- 1. EXCAVATE BEHIND THE EXISTING RETEVMENT TO INSTALL THE BRACING PLATFORM (WHICH IS TO BE SET TO 1m ABOVE THE HIGH TIDE REGION). THE EXCAVATED FILL WILL BE STORED ON SITE FOR RE-USE IN BEHIND THE WHARF.
2. ASSEMBLE THE TEMPORARY WORKS ON THE PLATFORM FOR THE SETOUT OF THE SHEET PILES ABOVE THE EXISTING DRIVEN LOCATIONS.
3. DRIVE SHEET PILES. THE SHEET PILES ARE TO BE DRIVEN TO A TOE LEVEL OF -16.5 LAT. AT THE COMPLETION OF EACH OF THE CELLS THE TEMPORARY WORKS ARE RELOCATED TO THE NEXT CELL FOR REPEAT OF THE PROCESS. THE LINK WALLS ARE THEN INSTALLED BETWEEN THE CELLS AS DRIVEN.
4. RE-USE EXCAVATED FILL TO FILL THE CELLS AND THE AREA BEHIND THE CELLS TO THE TOP OF THE SURFACE LEVEL ENGINEERED FILL IS THEN USED TO COMPLETE FILLING.
5. CONSTRUCT THE REINFORCED CONCRETE CAPPING ON TOP OF THE SHEET PILE WALLS BORDING THE RIVER.
6. EXCAVATE THE EXISTING ROCKWALL AND STORE ONSITE FOR RE-USE. EXCAVATE MATERIAL FROM INT OF CELLS UTILISING AS FILL ON THE SURFACE.
7. RE-USE ROCKWALL BOTH UPSTREAM AND DOWNSTREAM OF INSTALLED CELLS.
8. BRIDGE IN FRONT OF THE WALL TO ACHIEVE THE REQUIRED BERTH POINT LEVELS.
9. CONSTRUCT THE SURFACE PAVEMENT INCORPORATING THE RETICULATION SERVICES AT REQUIRED DEPTHS AND LOCATIONS.

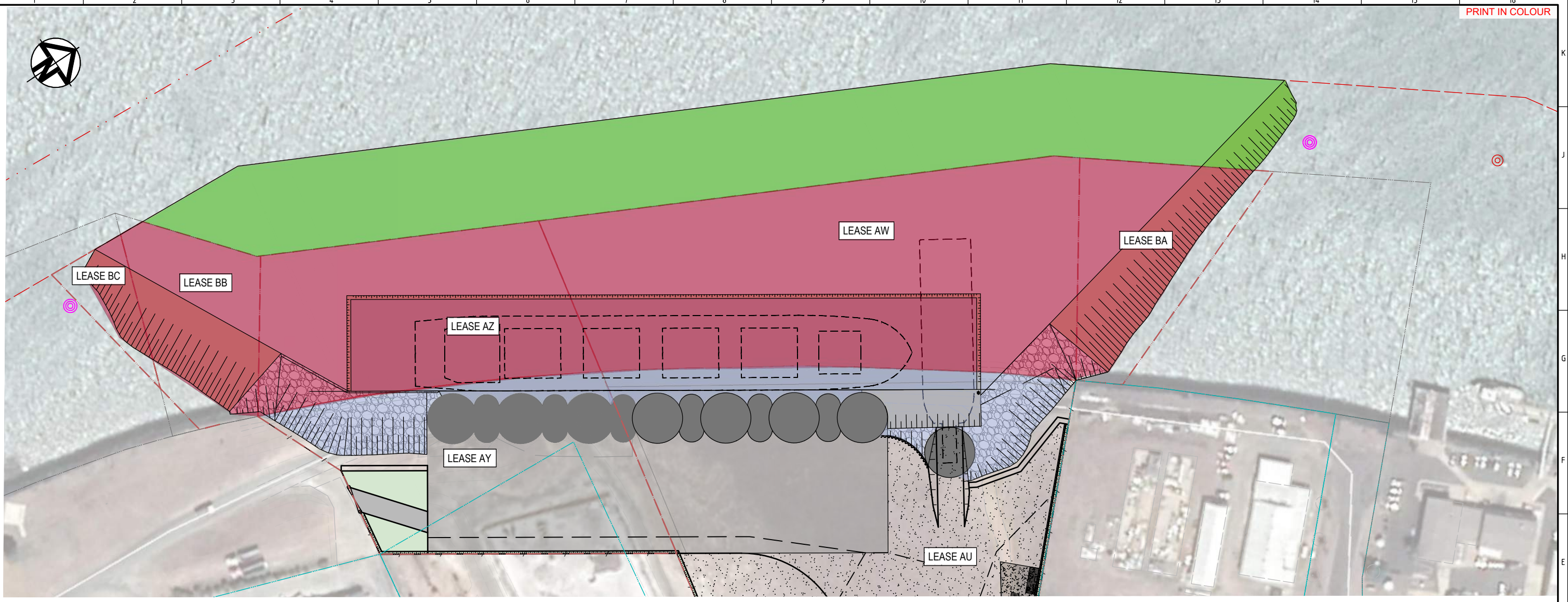
Table of TIDAL PLANES BUNDABERG (BURNETT HEADS) (QUEENSLAND TIDE TABLES 2018) with values for HAT (3.67m), MHWS (2.88m), MHWN (2.30m), MSL (1.72m), MLWN (1.14m), MLWS (0.56m), LAT (0.0m (-1.693m AHD)).



PLANS AND DOCUMENTS referred to in the REFERRAL AGENCY RESPONSE
SARA ref: 2207-30170 SRA
Date: 20 September 2022

Amended in red by SARA on 20 September 2022

Project information block including CONSULTANT LOGO (LONJAC CIVIL • MARINE • MANAGEMENT), SURVEY / DESIGN REFERENCES, CLIENT (Pacific Marine Base), DESIGNED BY (J.LAWLEY), PROJECT (PACIFIC MARINE BASE BUNDABERG MARINE INDUSTRY SITE), and a revision table.



PLAN
SCALE 1:750

- AREA 1**
DREDGE AND OPERATION AREA FOR SUB-LEASE AW ON SP305678, SUB LEASE AZ ON SP335869, SUB LEASE BA AND BB ON SP335870 ALL IN LOT 287 ON SP166199 AND SUB LEASE BC ON SP335870 IN LOT 276 ON SPR8643 (WET AREA OWNED BY THE STATE AND LEASED BY GPC.)
- AREA 2**
DREDGE AREA ON UNALLOCATED STATE LAND (USL) ASSOCIATED WITH SITE DEVELOPMENT
- AREA 3**
DREDGE AREA FOR LEASE AU ON SP305678 AND LEASE AY ON SP335869 ALL IN LOT 501 ON SP279707 (DRY AREA OWNED BY GPC.)

PLANS AND DOCUMENTS referred to in the REFERRAL AGENCY RESPONSE

SARA ref: 2207-30170 SRA

Date: 20 September 2022

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20 September 2022

LEGEND - CIVIL

- LEASE BOUNDARY
- MASTRE BOUNDARY
- FENCE
- HINGED GATE POST

LEGEND - MARITIME

- DEPARTURE CHANNEL
- BERTH
- 1 in 3 DREDGE BATTER
- ROCK PROTECTION

- NOTES**
- FOR GENERAL NOTES REFER TO DRAWING 0888-C0001.
 - WHERE SHOWN, SERVICES AND LOCATIONS ARE INDICATIVE ONLY AND SYMBOLS ARE NOT TO SCALE.

REV	DATE	DESCRIPTION	BY	REVIEWED	APPROVED
B	29.6.2022	FOR DEVELOPMENT APPROVAL	JL	JL	-
A	25.6.22	ISSUED FOR REVIEW	MC	JL	-

CONSULTANT LOGO

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SURVEY / DESIGN REFERENCES

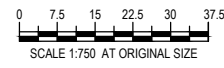
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LAT (MARINE - WHERE NOTED)

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CLIENT

BUNDABERG
Pacific Marine Base
Ship Repair | Barging | Project Support

DESIGNED BY	J.LAWLEY	MAY 2022
DES CHK	-	-
DRAWN	M.COLLINGS	MAY 2022
DRG CHK	J.LAWLEY	JUN 2022
REGISTERED PROFESSIONAL	J.LAWLEY	
REGISTRATION	LONJAC PTY LTD	
SIGNATURE	<i>J.Lawley</i>	
No.	22281	
Date.	29-06-2022	



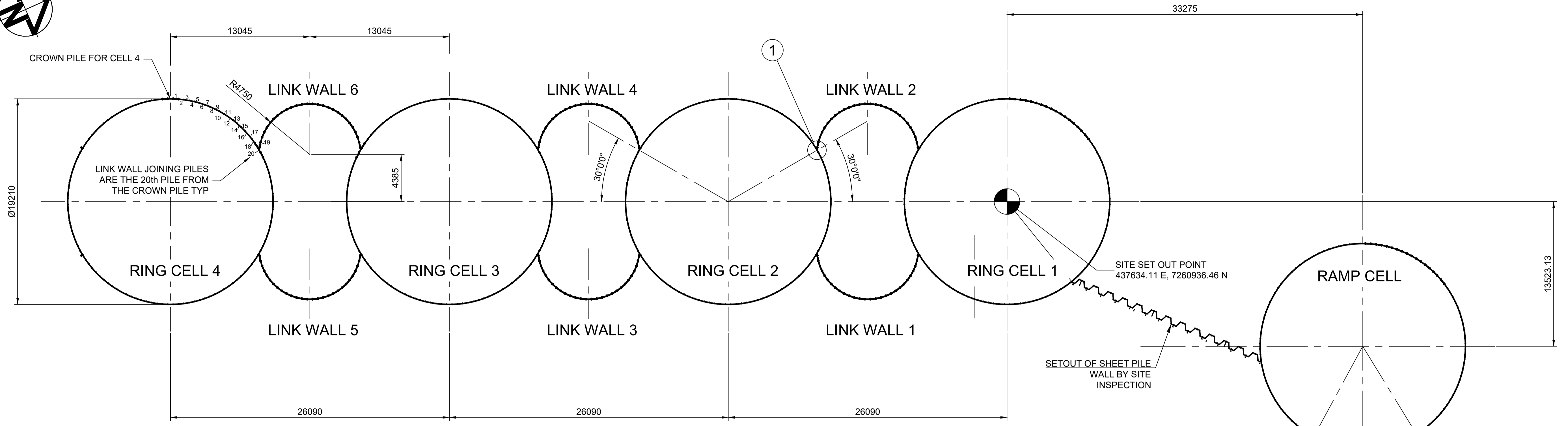
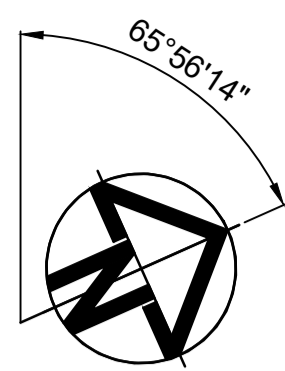
PROJECT
PACIFIC MARINE BASE BUNDABERG
MARINE INDUSTRY SITE

DRAWING TITLE
STAGE 2
MARITIME LAYOUT

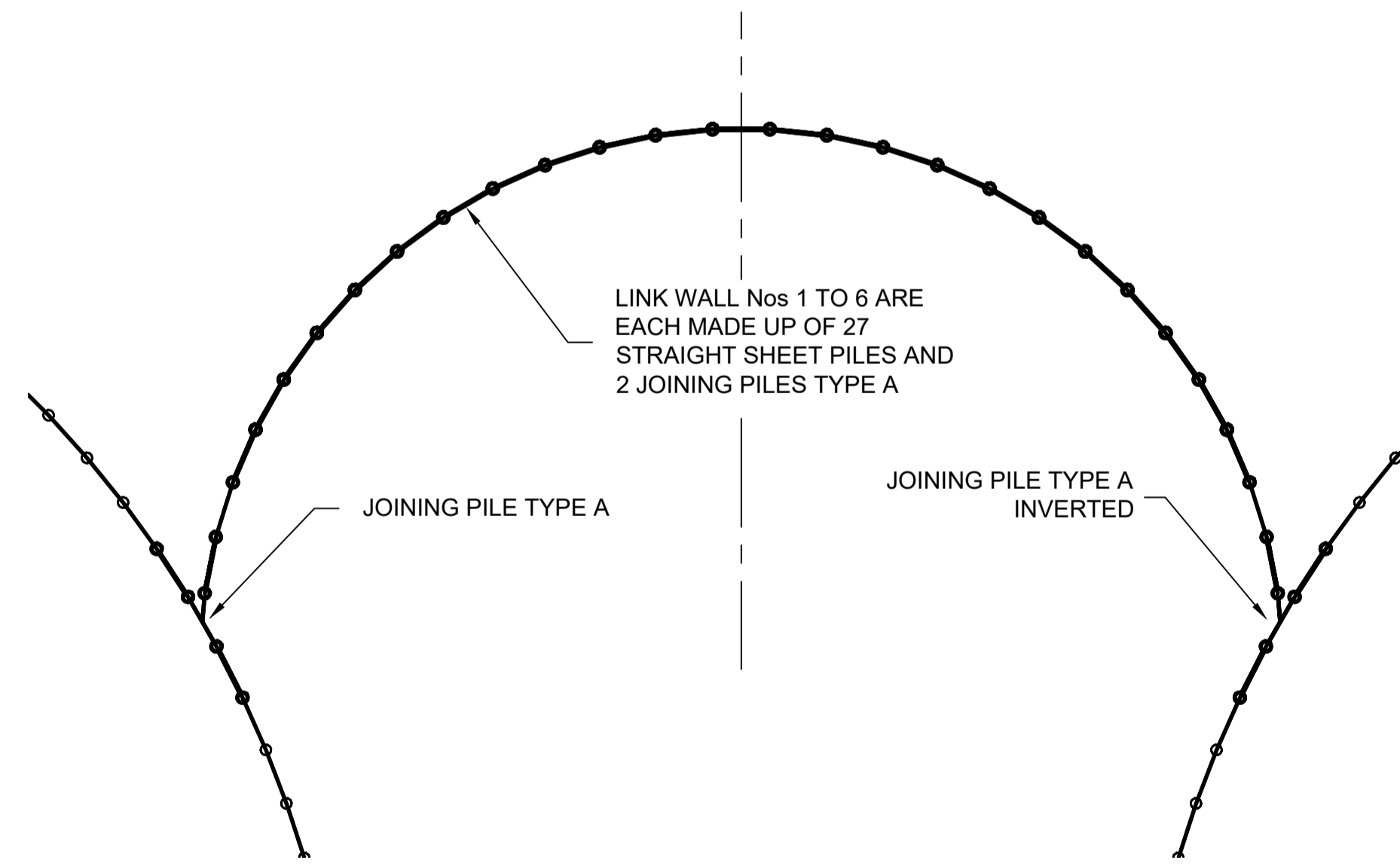
SCALE AS SHOWN

DRG NO. **0888- K0020**

REV **B**

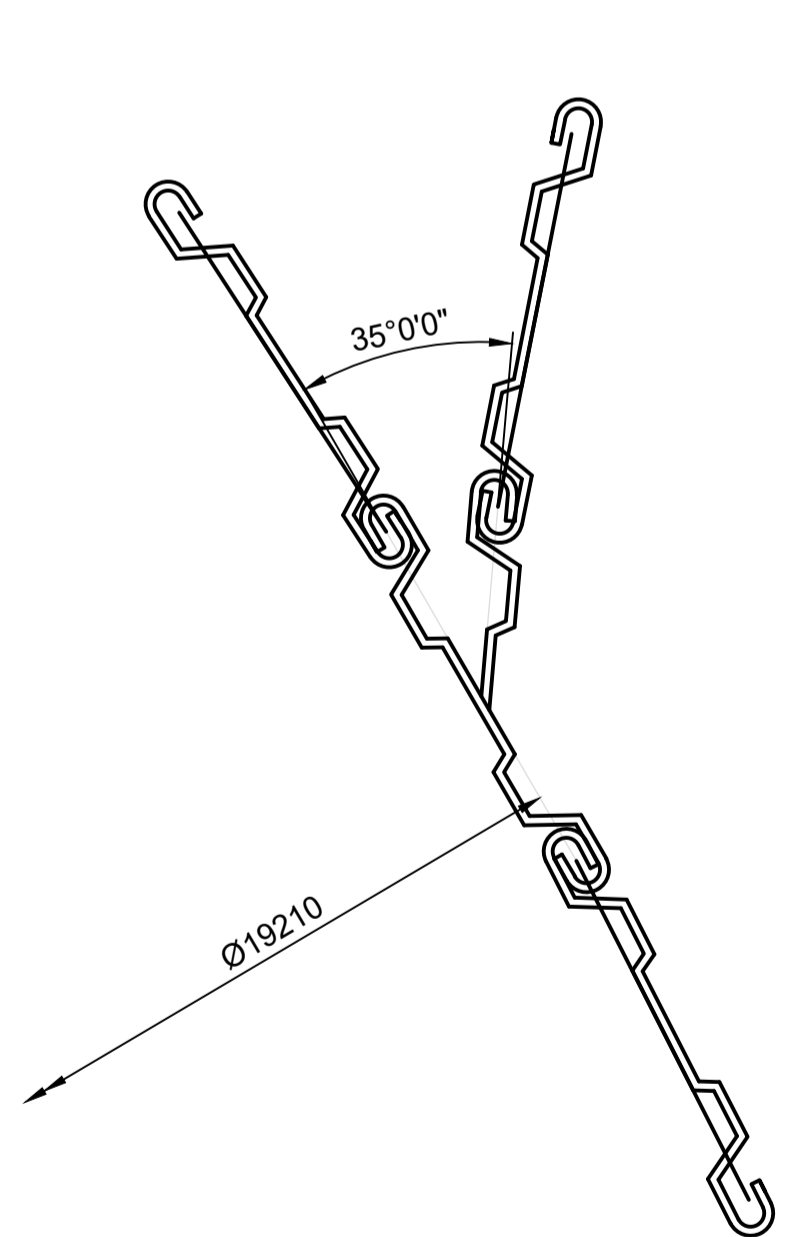


RING CELL SET OUT PLAN
SCALE 1:200

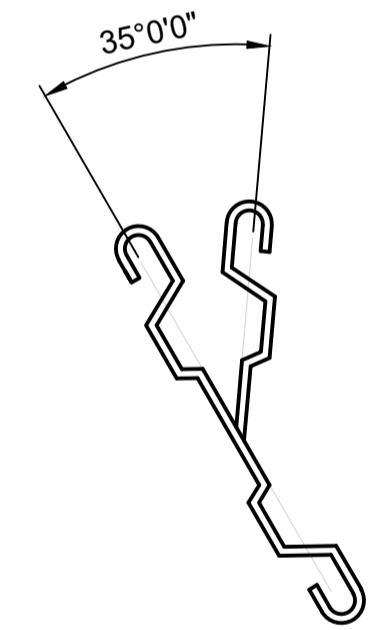


LINK WALL DETAIL
SCALE 1:50

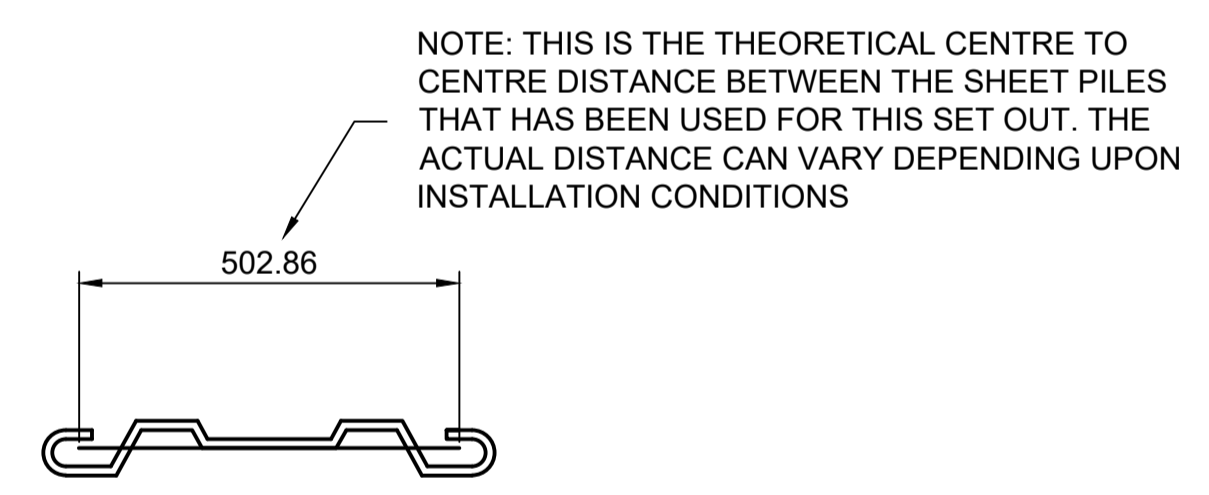
PLANS AND DOCUMENTS referred to in the DEVELOPMENT APPROVAL
 SARA ref: 2207-30170 SRA
 Date: 20 September 2022



DETAIL 1
SCALE 1:10



JOINT PILE TYPE A - 13mm THICK x 22m LONG
14 TOTAL REQUIRED FOR STAGE 1



STRAIGHT PILE - UNO 13mm THICK x 22m LONG
120 PER CELL REQUIRED (WITH NO JOINING PILES) 748 TOTAL REQUIRED FOR STAGE 1

- NOTES:**
- ALL LEVELS RELATIVE TO LAT.
 - STAGE 1 GEOTECHNICAL 3D MODEL REVIEWED TO THE SATISFACTION OF THE STRUCTURAL ENGINEER PRIOR TO DRIVING OF PILES FOR STAGE 1

REV	DATE	DESCRIPTION	BY	REVIEWED	APPROVED
1	08.06.22	ISSUED FOR CONSTRUCTION	SB	RJH	PM
0	22.12.21	ISSUED FOR CONSTRUCTION			

CONSULTANT

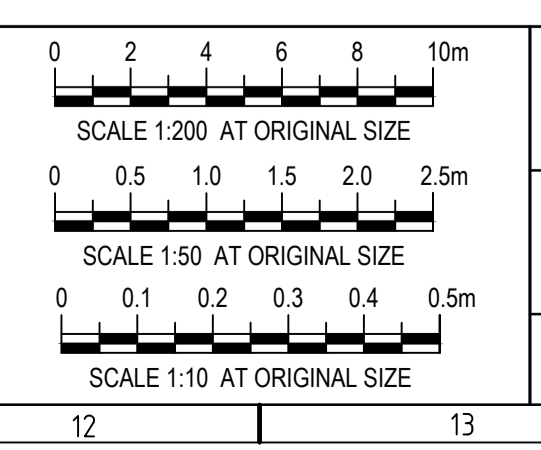
Kramer Ausenco
ENGINEERS & PROJECT MANAGERS

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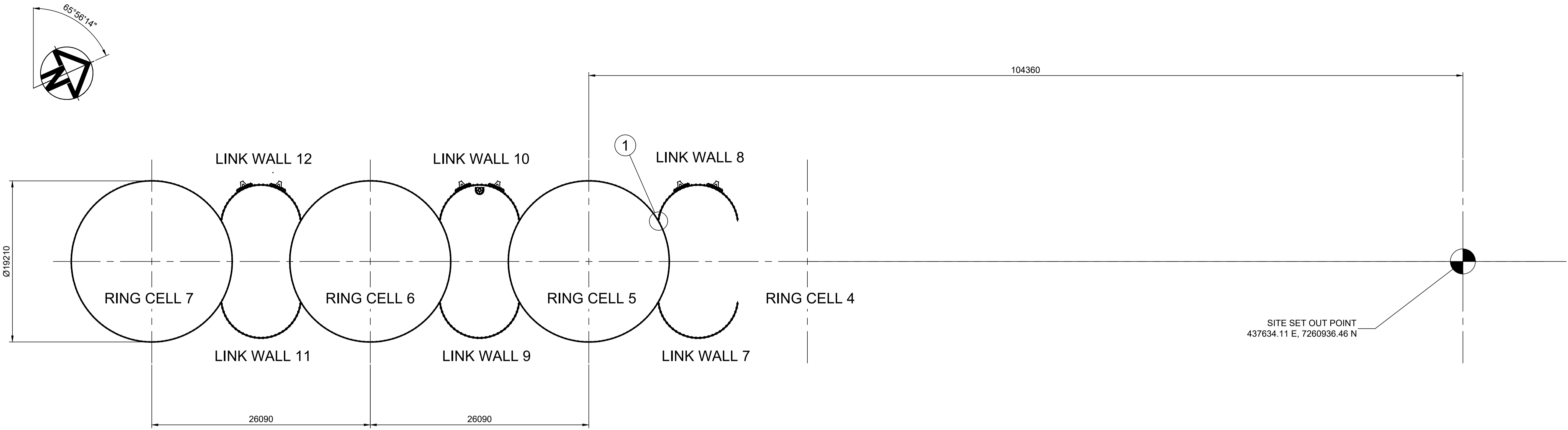
CLIENT

BUNDBERG
Pacific Marine Base
Ship Repair | Barging | Project Support

DESIGNED BY	Robert Hancock
DESIGN CHECK	Roy Scott
DRAWN BY	Luke Rzepka
DRAWING CHECK	S Blanchard
REGISTERED PROFESSIONAL	Peter Moodie
REGISTRATION NUMBER	RPEQ
SIGNATURE	<i>[Signature]</i>
NUMBER	3313
DATE	17.06.22

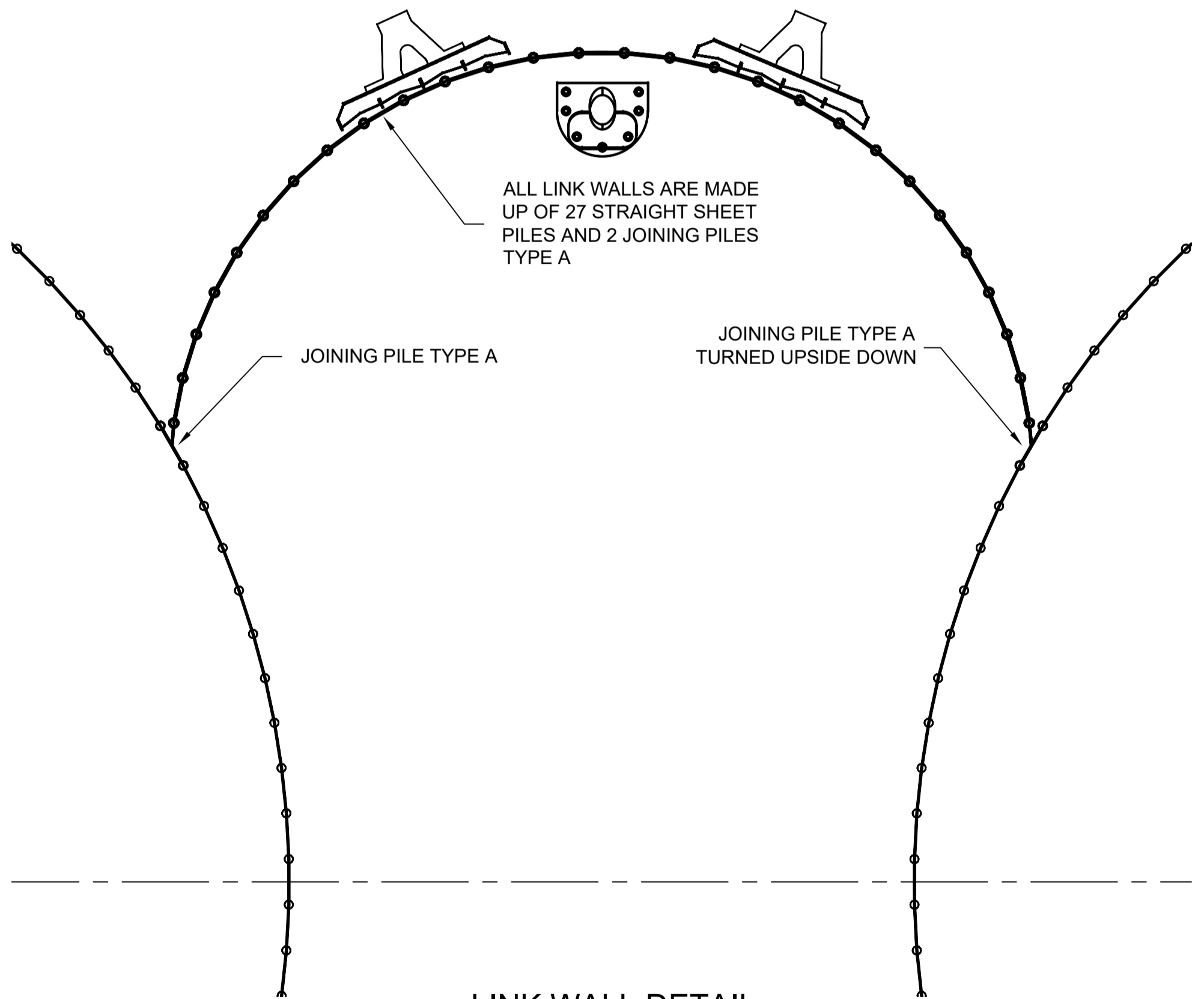


PROJECT NAME		PACIFIC MARINE BASE BUNDBERG	
DRAWING TITLE		MARINE INDUSTRY SITE, STAGE 1	
DRAWING TITLE		STAGE 1 WORKS - STRUCTURAL	
DRAWING TITLE		CELL SET OUT	
SCALE	As Noted	DRAWING NUMBER	0888-K0115
REVISION	1		



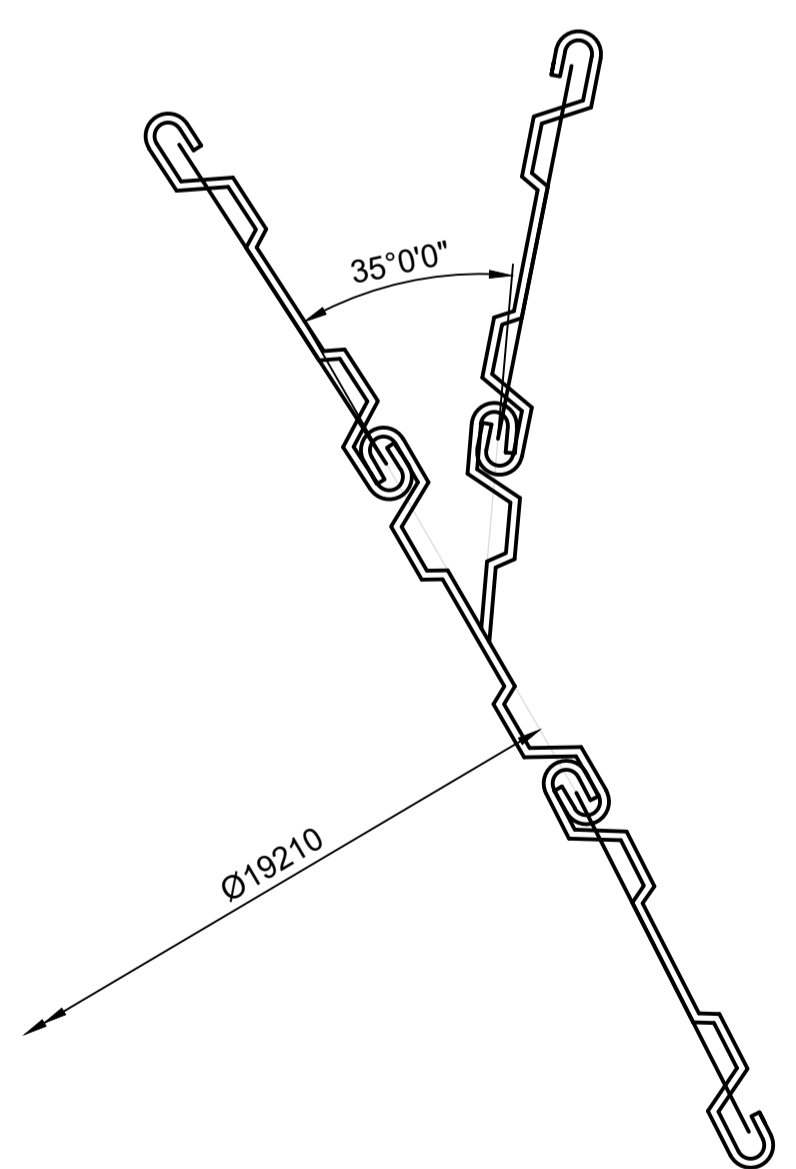
RING CELL SET OUT PLAN

SCALE 1:250



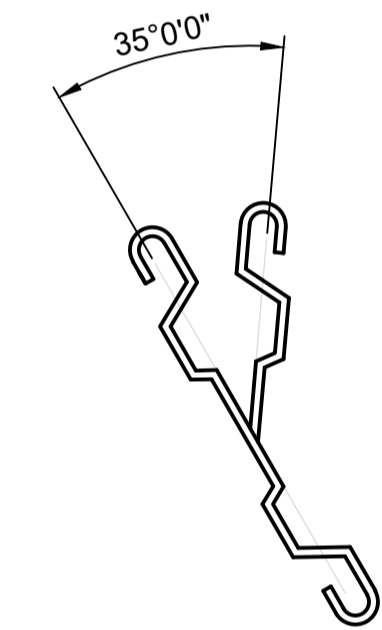
LINK WALL DETAIL

SCALE 1:50

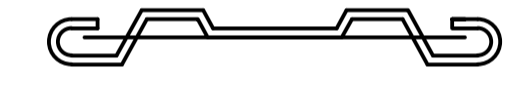


DETAIL 1

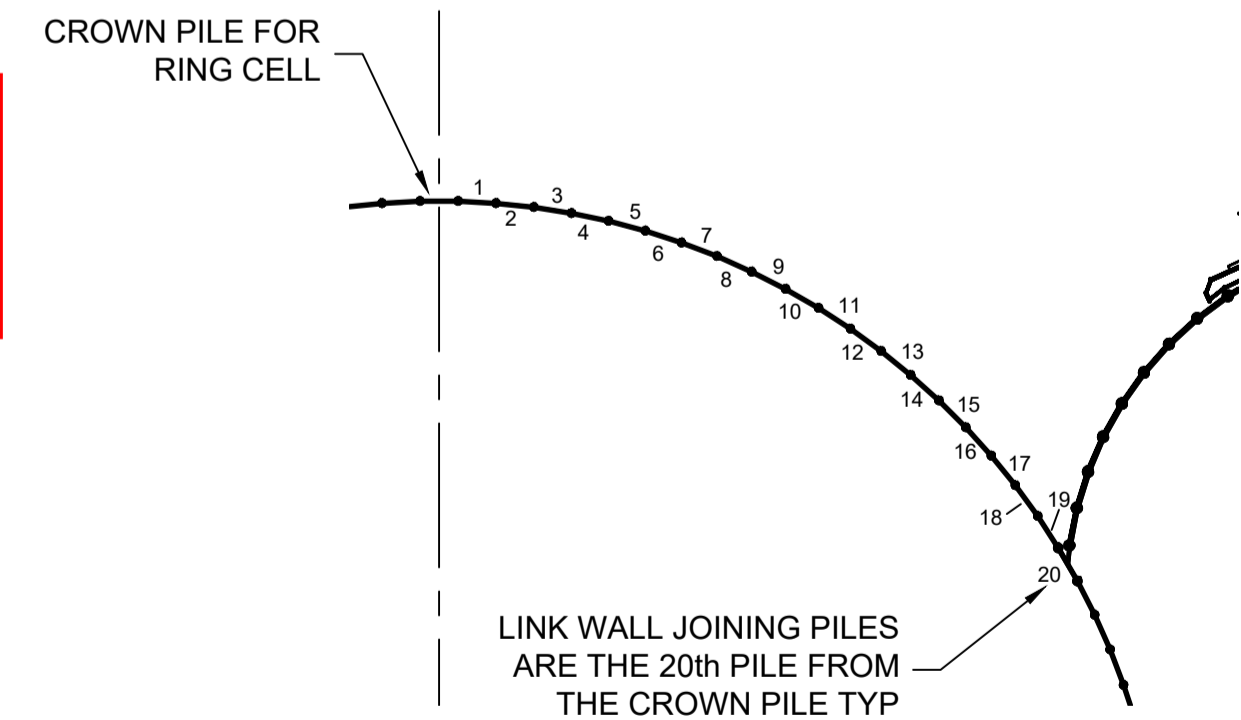
SCALE 1:10



JOINT PILE TYPE A - 13mm THICK x 22m LONG
10 TOTAL REQUIRED FOR STAGE 2



STRAIGHT PILE - 13mm THICK x 22m LONG
120 PER CELL REQUIRED (WITH NO JOINING PILES) 512 TOTAL REQUIRED FOR STAGE 2



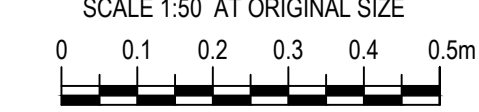
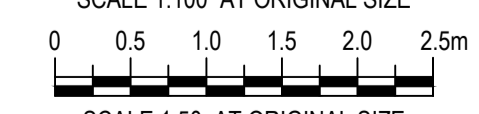
LINK WALL JOINING PILES ARE THE 20th PILE FROM THE CROWN PILE TYP

JOINT PILE LOCATION

SCALE 1:100

NOTE:
1. ALL LEVELS RELATIVE TO LAT.

PLANS AND DOCUMENTS referred to in the DEVELOPMENT APPROVAL
SARA ref: 2207-30170 SRA
Date: 20 September 2022



REV	DATE	DESCRIPTION	BY	REVIEWED	APPROVED
0	09.06.22	ISSUED FOR CONSTRUCTION	SB	RJH	PM

CONSULTANT

Kramer Ausenco
ENGINEERS & PROJECT MANAGERS

SURVEY BY		CLIENT	
DATE			
HORIZ. DATUM			
VERT. DATUM			

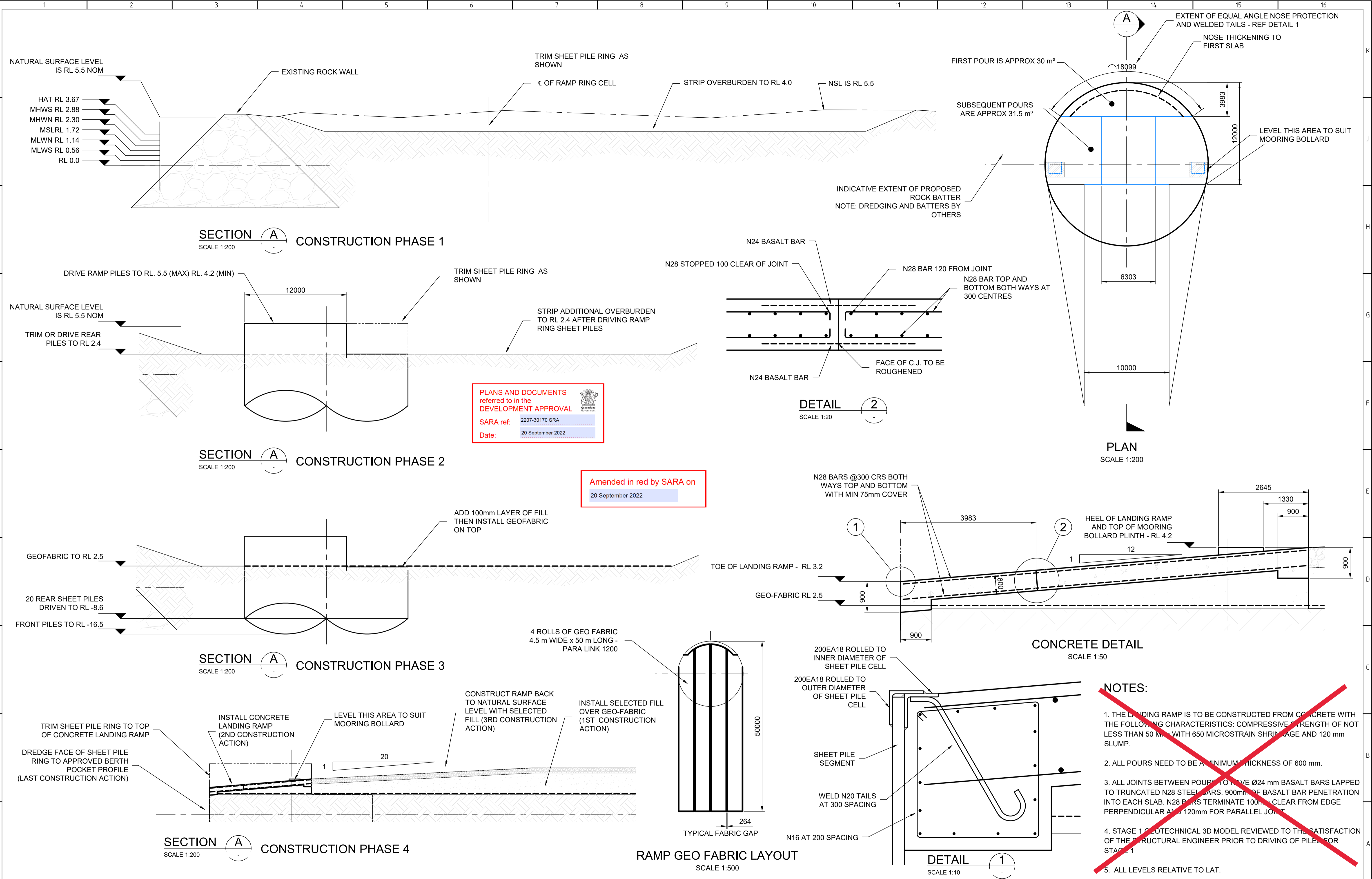
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BUNDABERG

Pacific Marine Base
Ship Repair | Barging | Project Support

DESIGNED BY	Robert Hancock
DESIGN CHECK	Roy Scott
DRAWN BY	Luke Rzepka
DRAWING CHECK	S Blanchard
REGISTERED PROFESSIONAL	Peter Moodie
REGISTRATION	RPEQ
SIGNATURE	<i>P. Moodie</i>
NUMBER	3313
DATE	17.06.22

PROJECT NAME		PACIFIC MARINE BASE BUNDABERG	
		MARINE INDUSTRY SITE, STAGE 2	
DRAWING TITLE		STAGE 2 WORKS - STRUCTURAL	
		CELL SET OUT	
SCALE	As Noted	DRAWING NUMBER	0888-K0116
		REVISION	0



PLANS AND DOCUMENTS referred to in the DEVELOPMENT APPROVAL
 SARA ref: 2207-30170 SRA
 Date: 20 September 2022

Amended in red by SARA on
 20 September 2022

- NOTES:**
1. THE LANDING RAMP IS TO BE CONSTRUCTED FROM CONCRETE WITH THE FOLLOWING CHARACTERISTICS: COMPRESSIVE STRENGTH OF NOT LESS THAN 50 MPa WITH 650 MICROSTRAIN SHRINKAGE AND 120 mm SLUMP.
 2. ALL POURS NEED TO BE A MINIMUM THICKNESS OF 600 mm.
 3. ALL JOINTS BETWEEN POURS TO HAVE Ø24 mm BASALT BARS LAPPED TO TRUNCATED N28 STEEL BARS. 900mm OF BASALT BAR PENETRATION INTO EACH SLAB. N28 BARS TERMINATE 100mm CLEAR FROM EDGE PERPENDICULAR AND 120mm FOR PARALLEL JOINT.
 4. STAGE 1 GEOTECHNICAL 3D MODEL REVIEWED TO THE SATISFACTION OF THE STRUCTURAL ENGINEER PRIOR TO DRIVING OF PILES FOR STAGE 1
 5. ALL LEVELS RELATIVE TO LAT.

REV	DATE	DESCRIPTION	BY	REVIEWED	APPROVED
1	08.06.22	ISSUED FOR CONSTRUCTION	SB	RJH	PM
0	22.12.21	ISSUED FOR CONSTRUCTION			

CONSULTANT

Kramer Ausenco
 ENGINEERS & PROJECT MANAGERS

SURVEY BY
 DATE
 HORIZ. DATUM
 VERT. DATUM

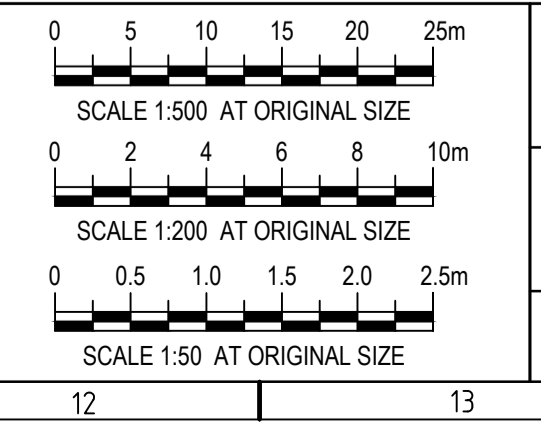
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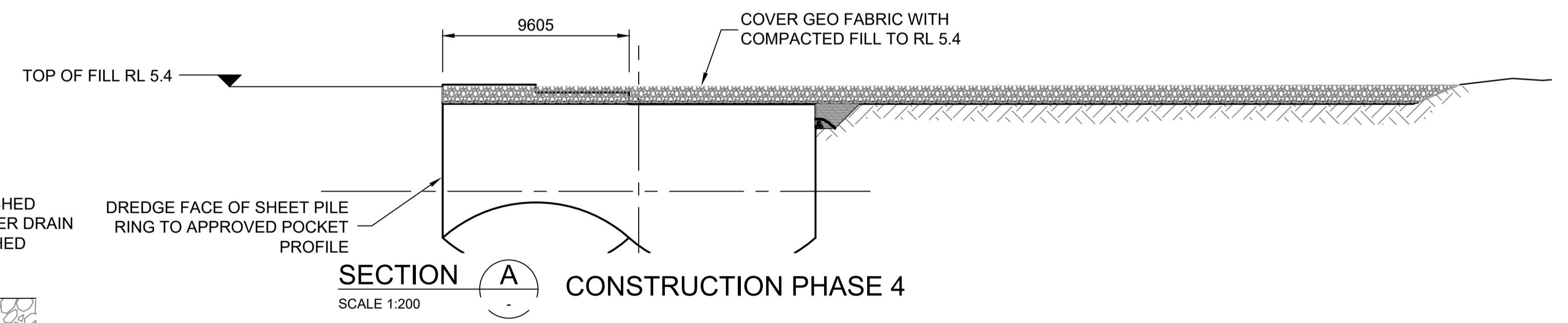
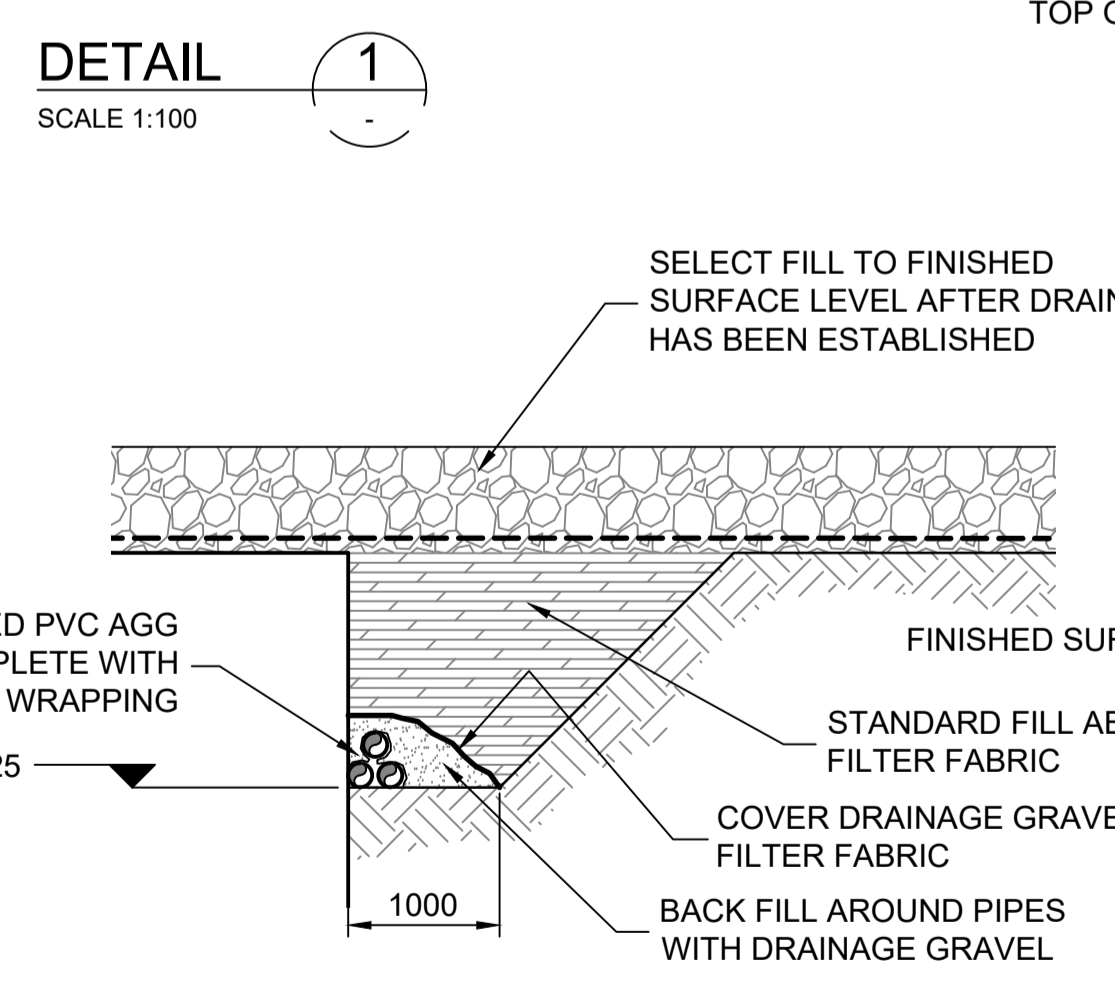
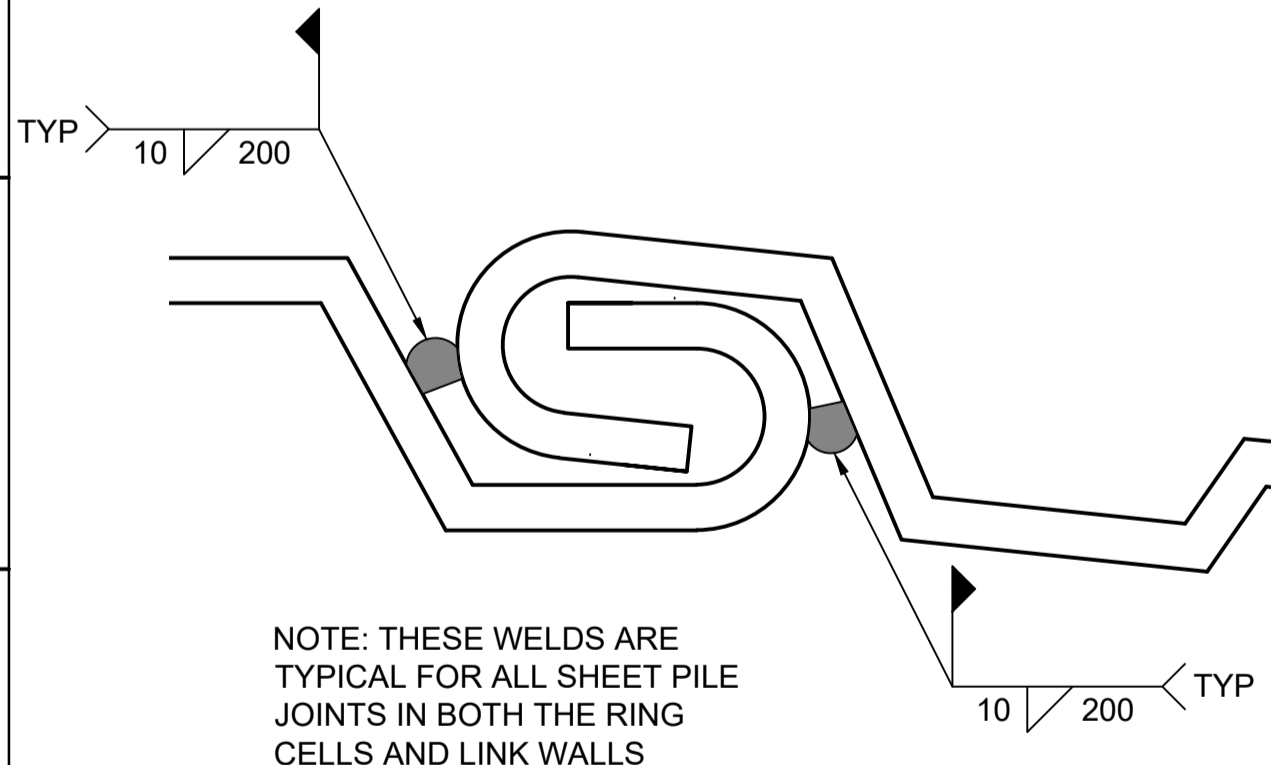
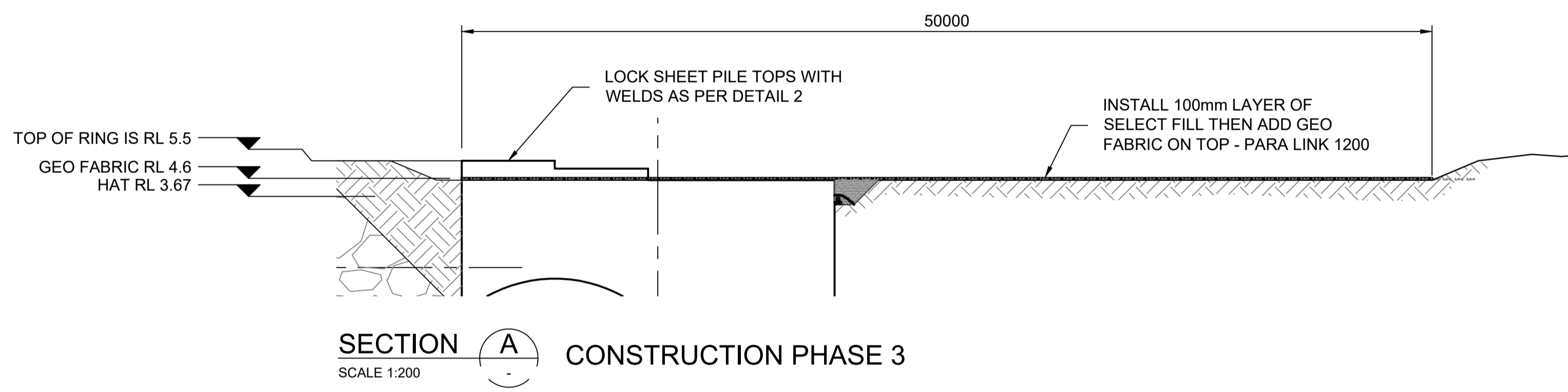
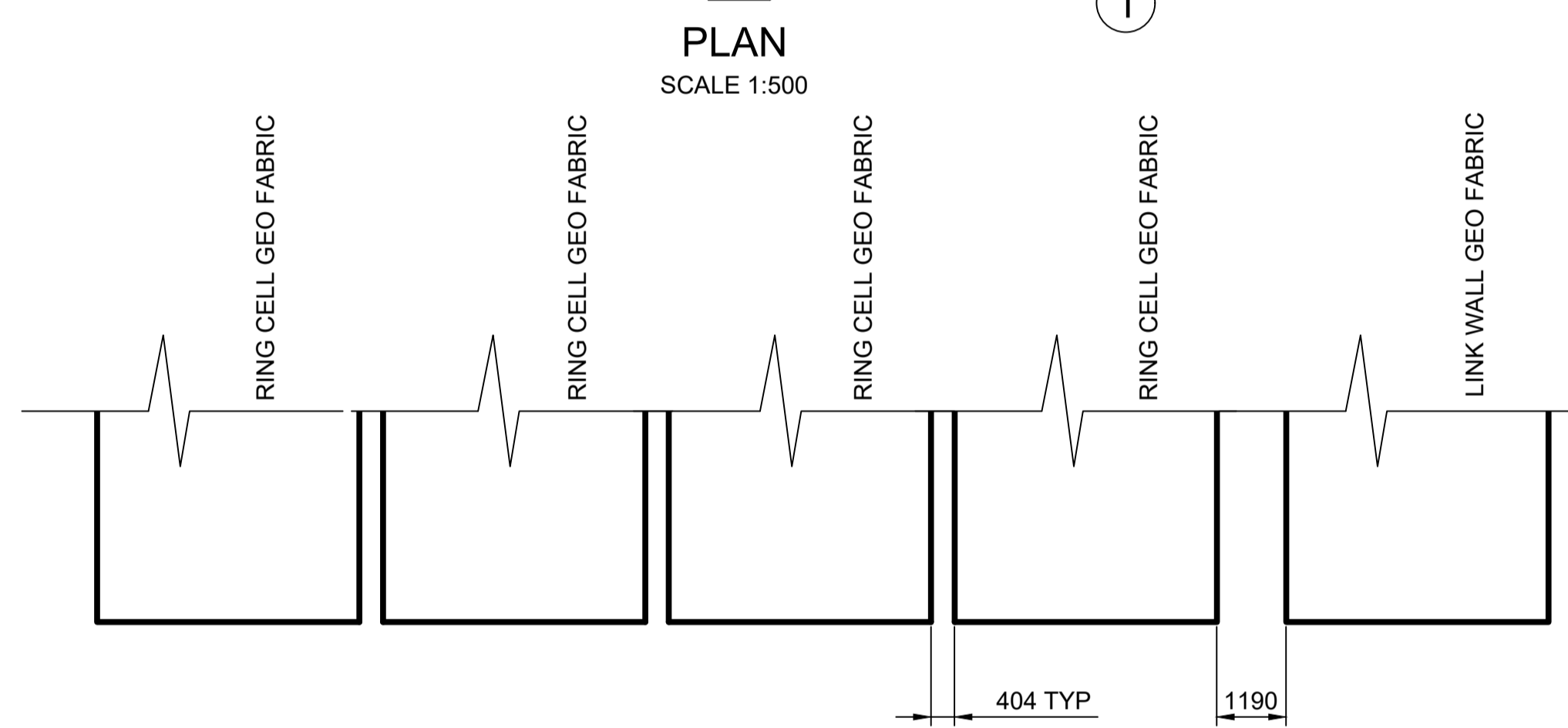
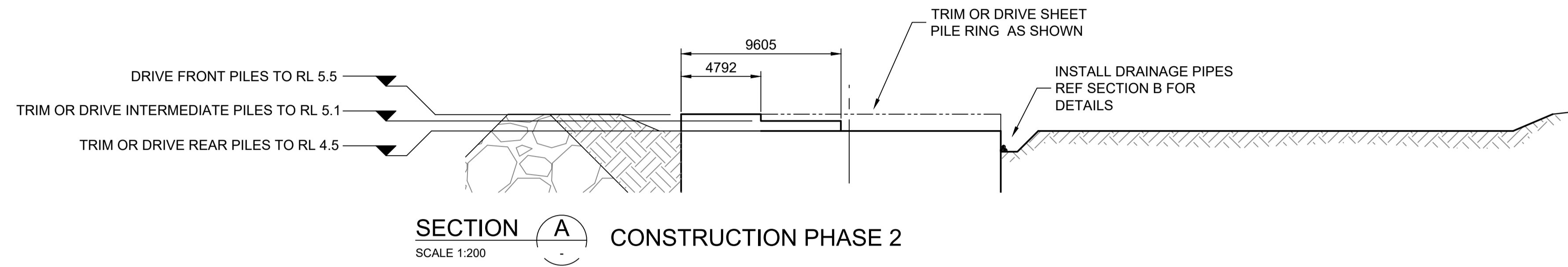
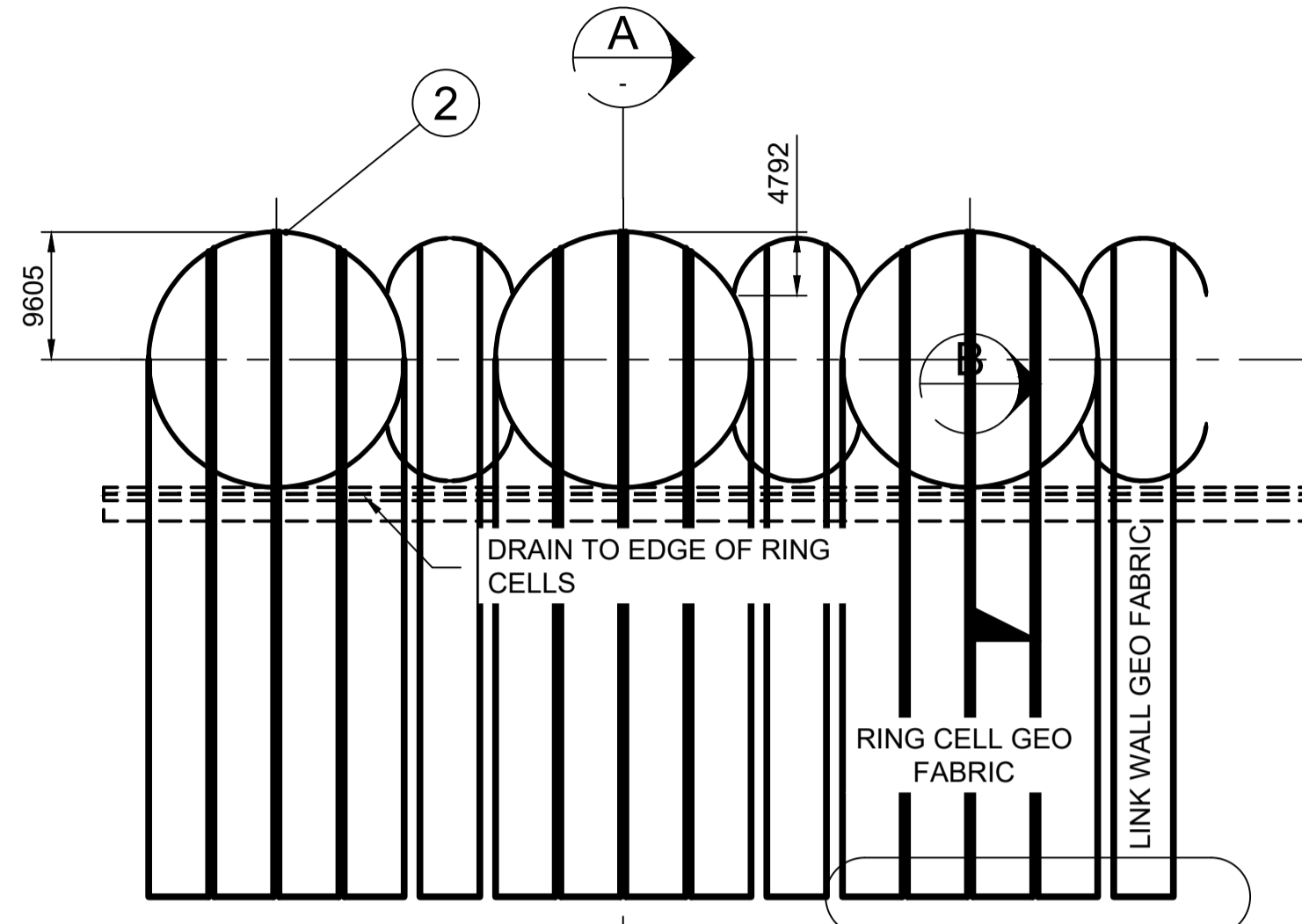
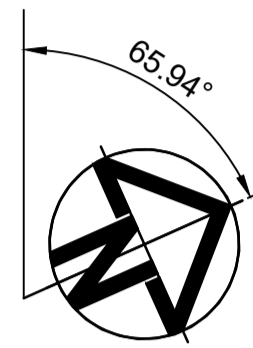
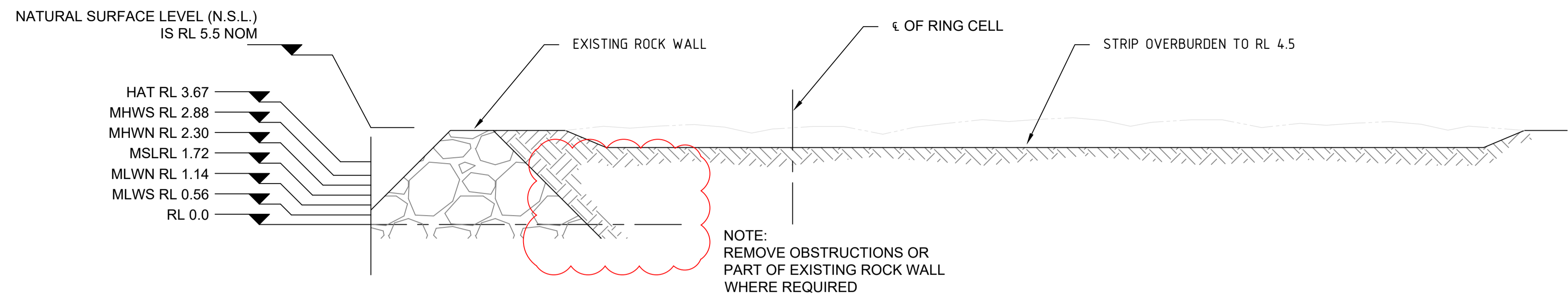
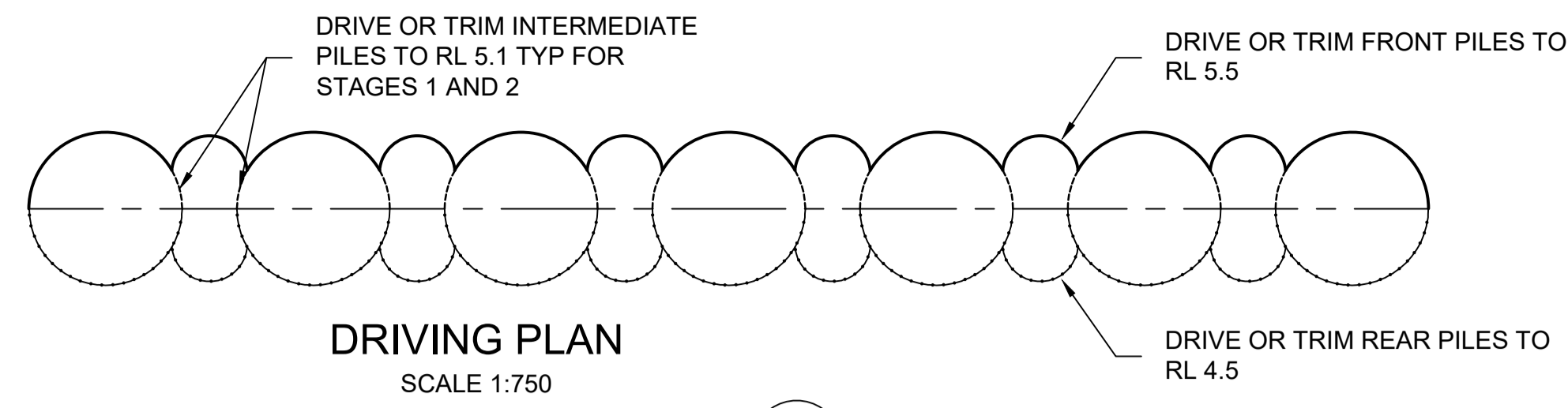
BUNDABERG

Pacific Marine Base
 Ship Repair | Barging | Project Support

DESIGNED BY: Robert Hancock
 DESIGN CHECK: Roy Scott
 DRAWN BY: Luke Rzepka 30.8.2021
 DRAWING CHECK: S Blanchard
 REGISTERED PROFESSIONAL: Peter Moodie
 REGISTRATION: RPEQ
 SIGNATURE: [Signature]
 NUMBER: 3313
 DATE: 17.06.22



PROJECT NAME PACIFIC MARINE BASE BUNDABERG MARINE INDUSTRY SITE, STAGE 1	DRAWING TITLE STAGE 1 WORKS - STRUCTURAL RAMP DETAILS	SCALE As Noted	DRAWING NUMBER 0888-K0120	REVISION 1
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NOTES:
1. ALL LEVELS RELATIVE TO LAT.

PLANS AND DOCUMENTS referred to in the DEVELOPMENT APPROVAL
SARA ref: 2207-30170 SRA
Date: 20 September 2022

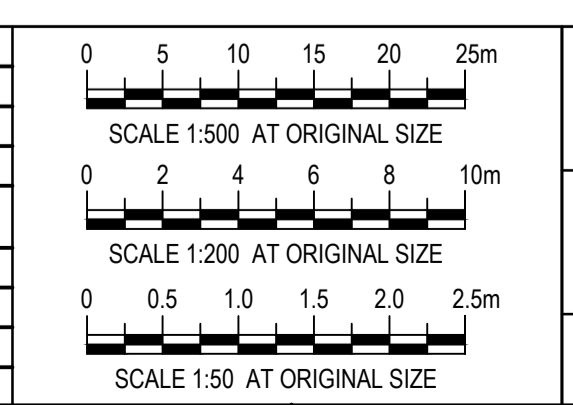
REV	DATE	DESCRIPTION	BY	REVIEWED	APPROVED
0	16.06.22	ISSUED FOR CONSTRUCTION	SB	RJH	PM
A		ISSUED FOR CLIENT REVIEW			

CONSULTANT
Kramer Ausenco
ENGINEERS & PROJECT MANAGERS

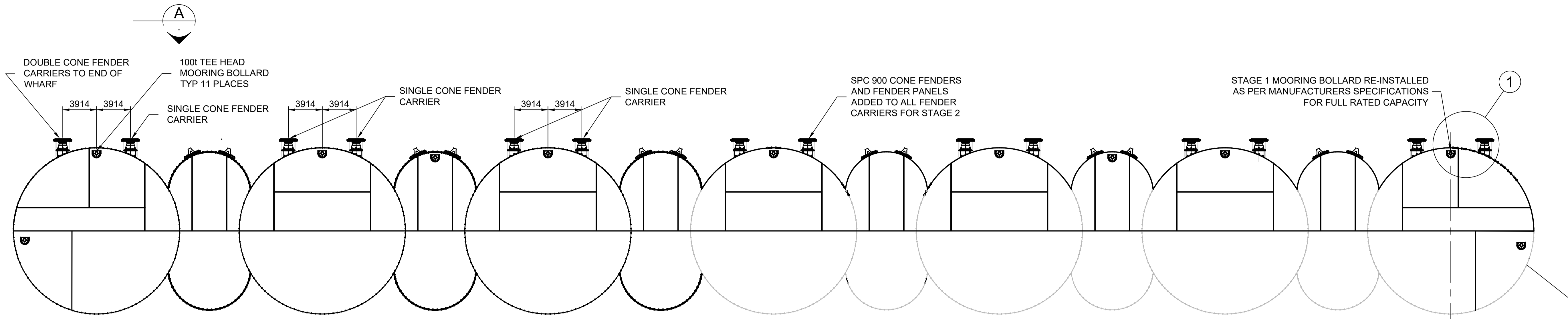
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CLIENT
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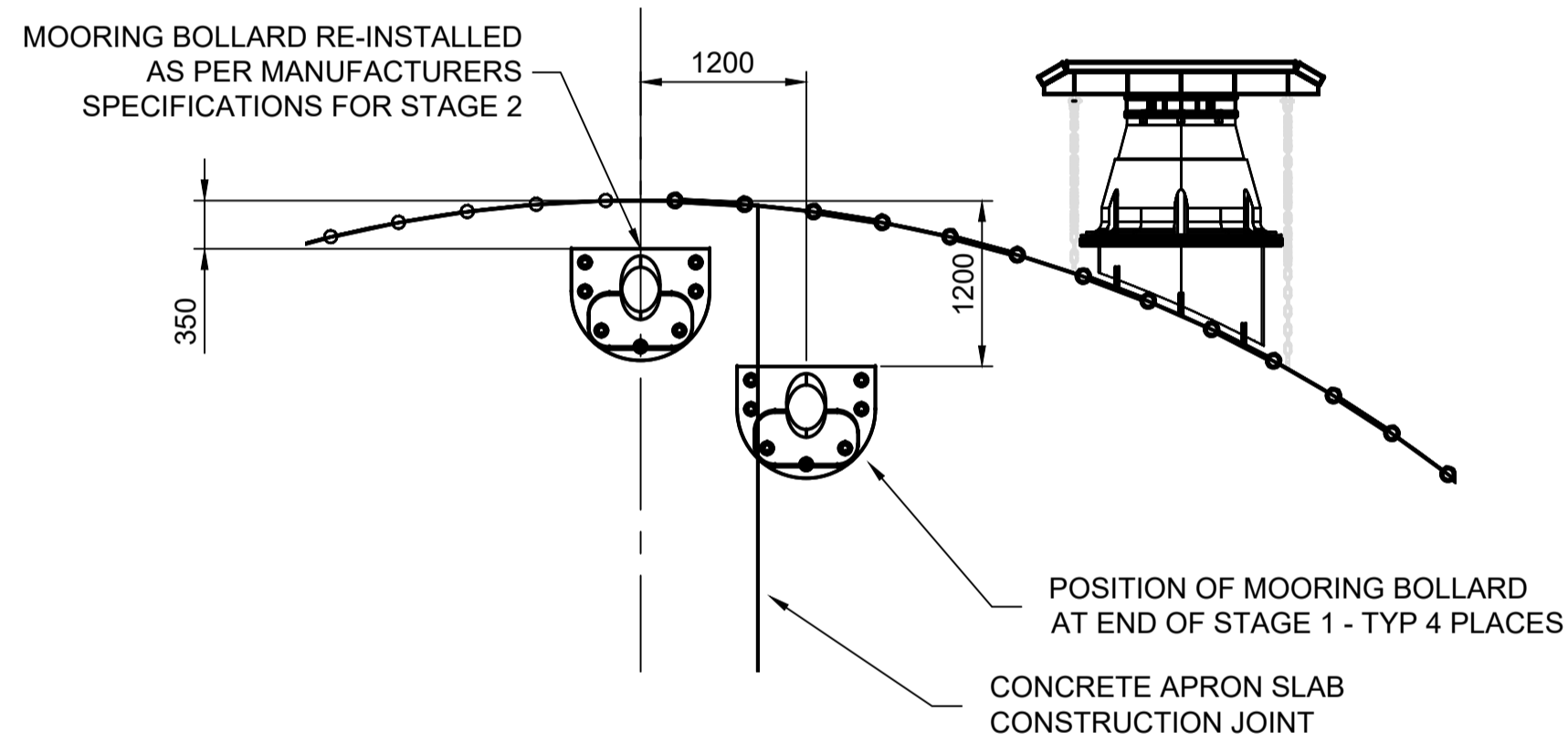
DESIGNED BY: Robert Hancock
DESIGN CHECK: Roy Scott
DRAWN BY: Luke Rzepka 30.8.2021
DRAWING CHECK: S Blanchard
REGISTERED PROFESSIONAL: Peter Moodie
SIGNATURE: RPEQ
NUMBER: 3313
DATE: 17.06.22



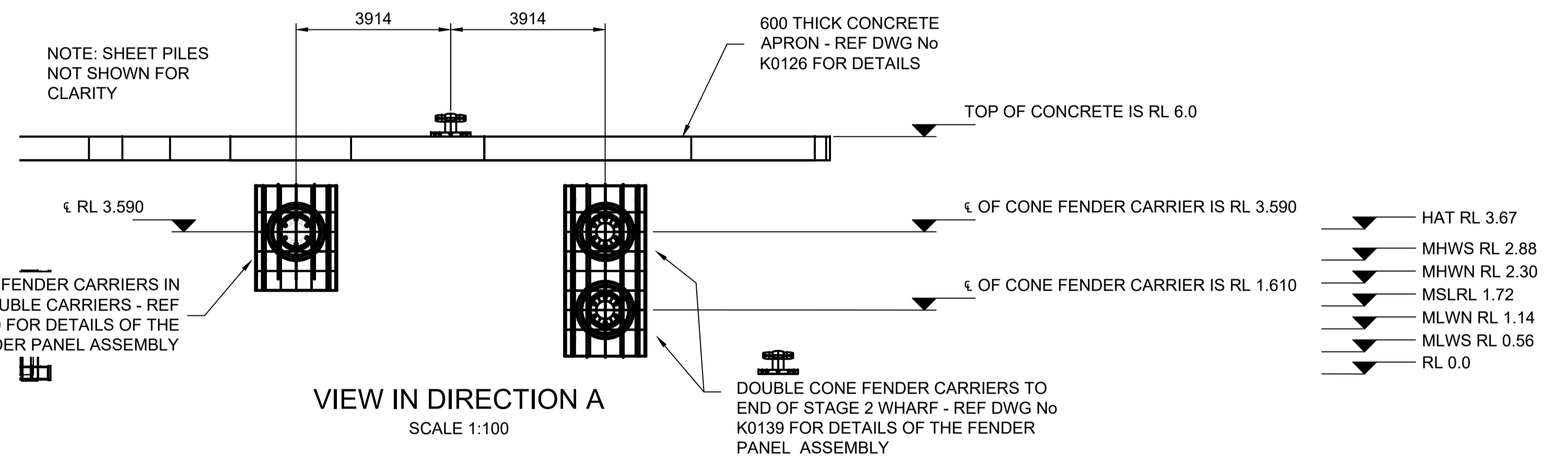
PROJECT NAME PACIFIC MARINE BASE BUNDABERG MARINE INDUSTRY SITE, STAGE 2		DRAWING TITLE STAGE 2 WORKS - STRUCTURAL WHARF TYPICAL SECTIONS AND DETAILS	SCALE As Noted	DRAWING NUMBER 0888-K0127	REVISION 0
SIGNED AND SEALED DATE: 17.06.22					



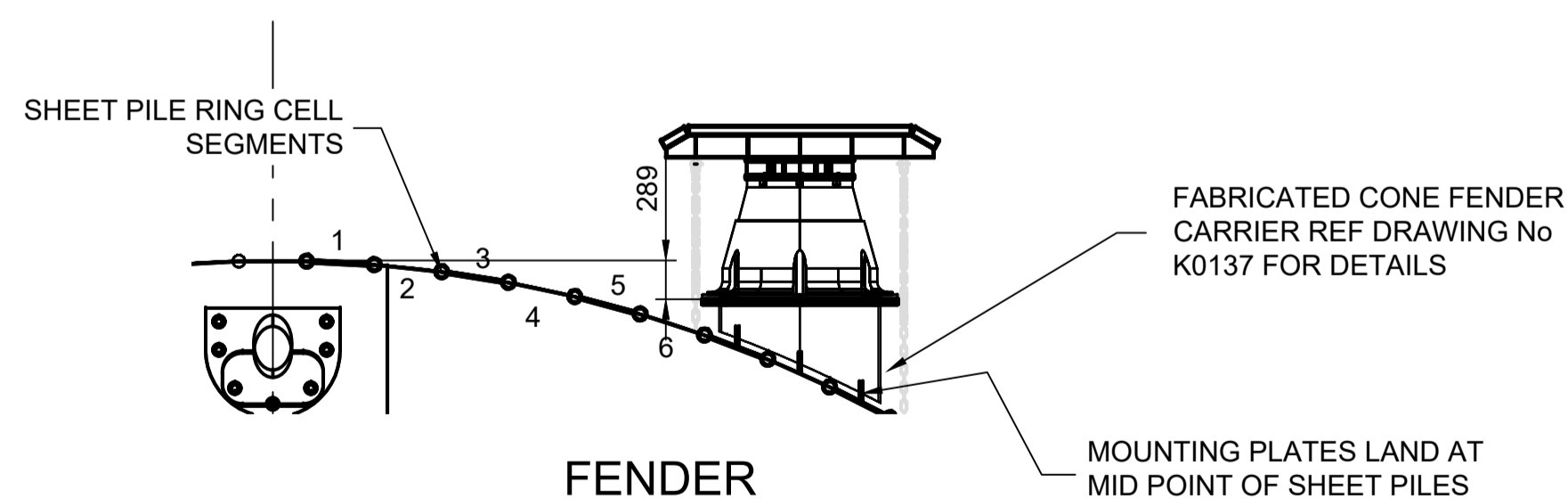
LAYOUT PLAN
SCALE 1:200



DETAIL 1
SCALE 1:50



VIEW IN DIRECTION A
SCALE 1:100



FENDER CARRIER LOCATION PLAN
SCALE 1:50

PLANS AND DOCUMENTS referred to in the DEVELOPMENT APPROVAL
SARA ref: 2207-30170 SRA
Date: 20 September 2022

NOTES

- ALL LEVELS RELATIVE TO LAT.

REV	DATE	DESCRIPTION	BY	REVIEWED	APPROVED
0	16.06.22	ISSUED FOR CONSTRUCTION	SB	RJH	PM
A					

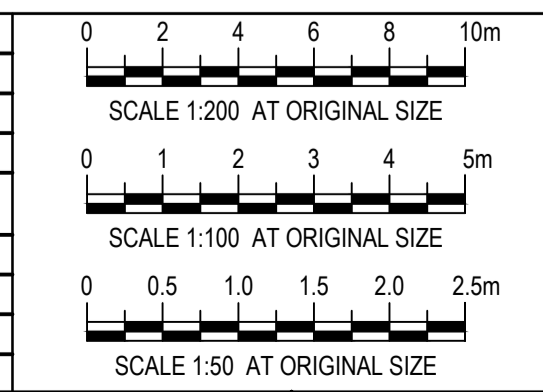
CONSULTANT
Kramer Ausenco
ENGINEERS & PROJECT MANAGERS

SURVEY BY		CLIENT	
DATE			
HORIZ. DATUM			
VERT. DATUM			

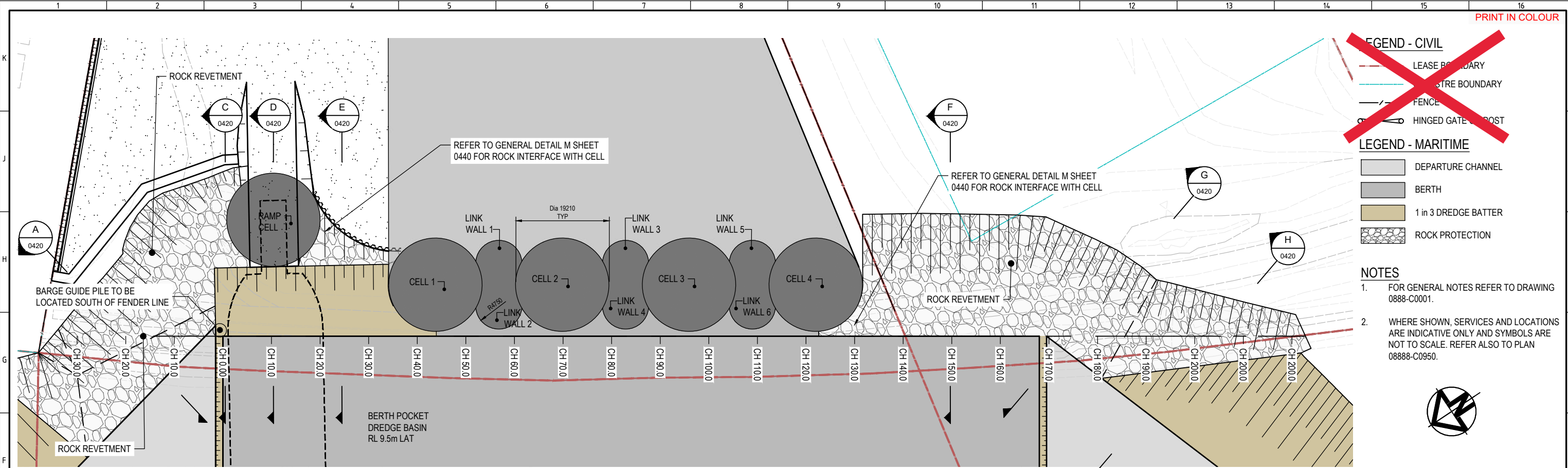
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BUNDABERG
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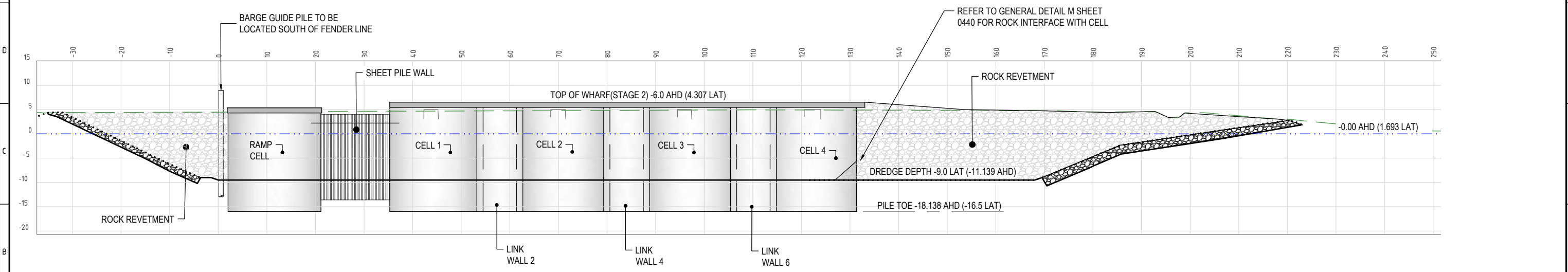
DESIGNED BY	Robert Hancock
DESIGN CHECK	Roy Scott
DRAWN BY	Luke Rzepka
DRAWING CHECK	S Blanchard
REGISTERED PROFESSIONAL	Peter Moodie
REGISTRATION NUMBER	RPEQ 3313
SIGNATURE	<i>P. Moodie</i>
NUMBER	3313
DATE	17.06.22



PROJECT NAME	PM MARINE INDUSTRY SITE, STAGE 2
DRAWING TITLE	STAGE 2 WORKS - STRUCTURAL FENDER AND BOLLARD LAYOUT
SCALE	As Noted
DRAWING NUMBER	0888-K0138
REVISION	0



QUAY WALL PLAN
SCALE 1:400



QUAY WALL ELEVATION
SCALE 1:400

Amended in red by SARA on
20 September 2022

PLANS AND DOCUMENTS referred to in the REFERRAL AGENCY RESPONSE

SARA ref: 2207-30170 SRA

Date: 20 September 2022

REV	DATE	DESCRIPTION	BY	REVIEWED	APPROVED
A	25.6.22	ISSUED FOR DEVELOPMENT APPROVAL	MC	JL	-

CONSULTANT LOGO

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Electra,
Queensland, 4670
Ph +61 (0) 499 000 202
jim@lonjac.net.au

SURVEY / DESIGN REFERENCES

Survey By - INSITE SJC
Dated - 03.08.2021
Horizontal datum - MGA 94 ZONE 56
PM 3853
Vertical datum - AHD (LAND BASED)
LAT (MARINE - WHERE NOTED)

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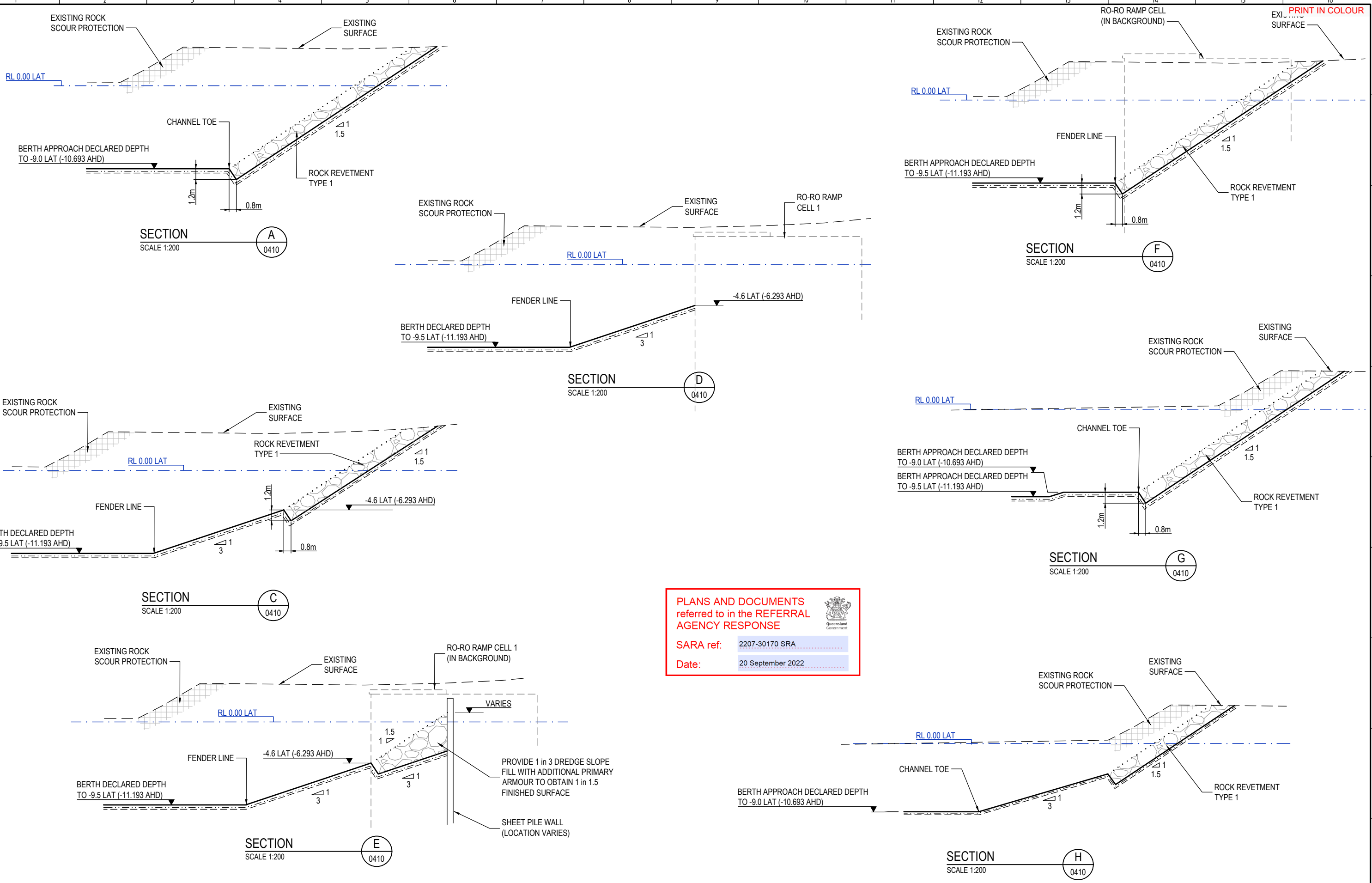
CLIENT

Ship Repair | Barging | Project Support

DESIGNED BY	J.LAWLEY	MAY 2022
DES CHK	-	-
DRAWN	M.COLLINGS	MAY 2022
DRG CHK	J.LAWLEY	JUN 2022
REGISTERED PROFESSIONAL	J.LAWLEY	
REGISTRATION	LONJAC PTY LTD	
SIGNATURE		
No.	22281	
Date	29.8.2022	



PROJECT		PACIFIC MARINE BASE BUNDBERG MARINE INDUSTRY SITE	
DRAWING TITLE		STAGE 1 ROCK WALL PLAN AND ELEVATION	
SCALE	AS SHOWN	DRG NO.	0888- K0410
REV	A		



PLANS AND DOCUMENTS referred to in the REFERRAL AGENCY RESPONSE

SARA ref: 2207-30170 SRA

Date: 20 September 2022



REV	DATE	DESCRIPTION	BY	REVIEWED	APPROVED
A	25.6.22	ISSUED FOR DEVELOPMENT APPROVAL	MC	JL	-

CONSULTANT LOGO

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SURVEY / DESIGN REFERENCES

Survey By - INSITE SJC
Dated - 03.08.2021
Horizontal datum - MGA 94 ZONE 56
PM 3853
Vertical datum - AHD (LAND BASED)
LAT (MARINE - WHERE NOTED)

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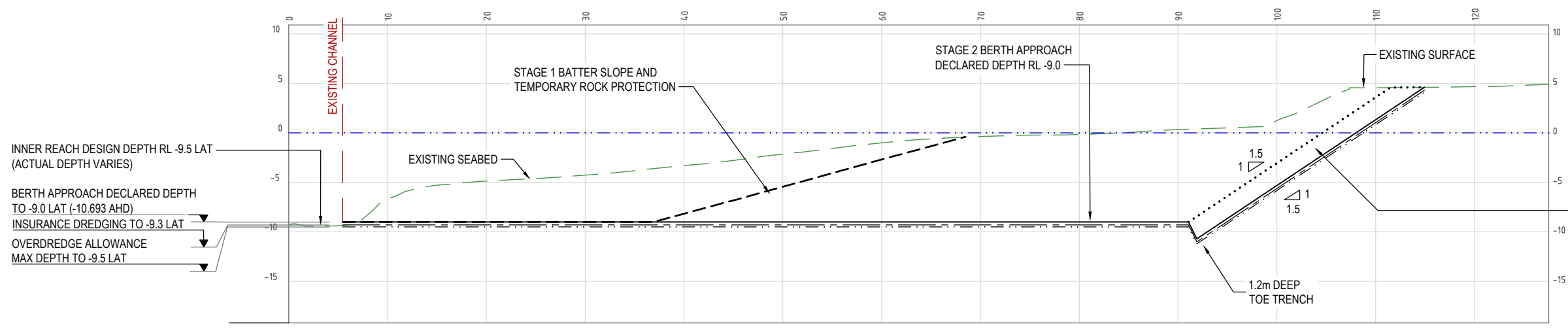
CLIENT

BUNDABERG
Pacific Marine Base
Ship Repair | Barging | Project Support

DESIGNED BY	J.LAWLEY	MAY 2022
DES CHK	-	-
DRAWN	M.COLLINGS	MAY 2022
DRG CHK	J.LAWLEY	JUN 2022
REGISTERED PROFESSIONAL	J.LAWLEY	
REGISTRATION	LONJAC PTY LTD	
SIGNATURE	<i>J.Lawley</i>	
No.	22281	
Date	29.6.2022	

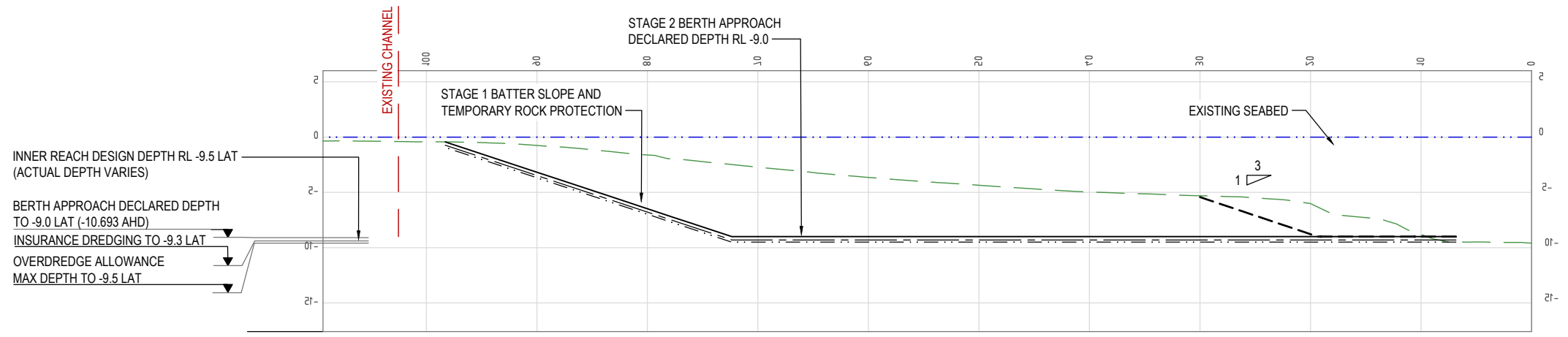


PROJECT		
PACIFIC MARINE BASE BUNDABERG MARINE INDUSTRY SITE		
DRAWING TITLE		
STAGE 1 ROCKWALL TYPICAL SECTIONS		
SCALE	DRG NO.	REV
AS SHOWN	0888- K0420	A



SITE SECTION J
SCALE 1:250

DUE TO STEEP DREDGED BATTER SLOPE STAGE 2 SCOUR ROCK TO BE PLACED IMMEDIATELY FOLLOWING DREDGING IN THIS AREA



SITE SECTION K
SCALE 1:250

PLANS AND DOCUMENTS referred to in the REFERRAL AGENCY RESPONSE

SARA ref: 2207-30170 SRA

Date: 20 September 2022

REV	DATE	DESCRIPTION	BY	REVIEWED	APPROVED
A	25.6.22	ISSUED FOR DEVELOPMENT APPROVAL	MC	JL	-

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SURVEY / DESIGN REFERENCES

Survey By - INSITE SJC
Dated - 03.08.2021
Horizontal datum - MGA 94 ZONE 56
PM 3853
Vertical datum - AHD (LAND BASED)
LAT (MARINE - WHERE NOTED)

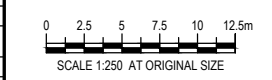
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Pacific Marine Base
Ship Repair | Barging | Project Support

DESIGNED BY	J.LAWLEY	MAY 2022
DES CHK	-	-
DRAWN	M.COLLINGS	MAY 2022
DRG CHK	J.LAWLEY	JUN 2022
REGISTERED PROFESSIONAL	J.LAWLEY	
REGISTRATION	LONJAC PTY LTD	
SIGNATURE		
No.	22281	
Date	29.6.2022	



PROJECT

PACIFIC MARINE BASE BUNDABERG
MARINE INDUSTRY SITE

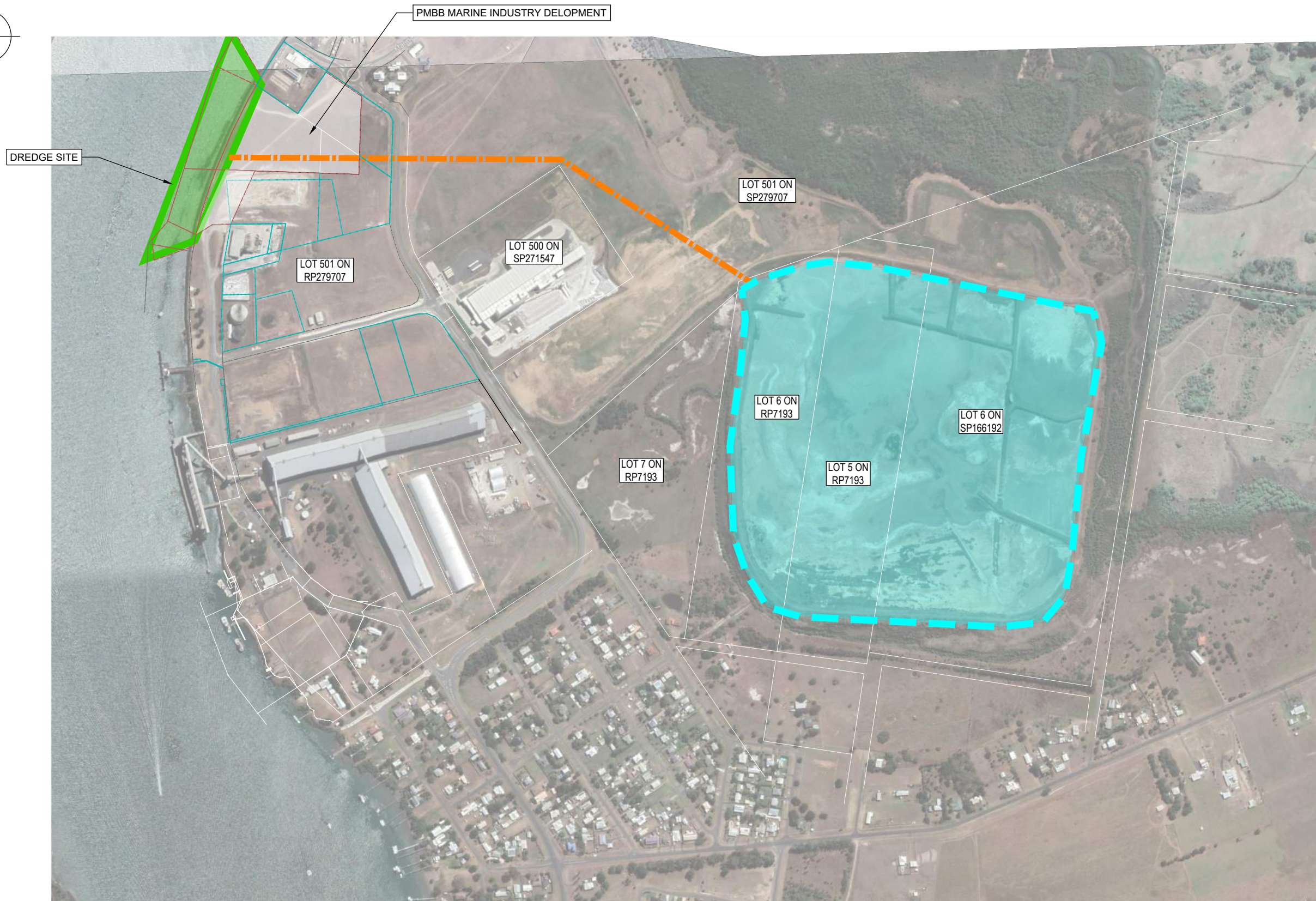
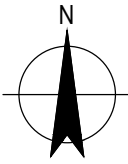
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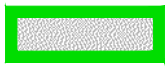




STAGES 1 AND 2
TYPICAL SECTIONS AND DETAILS SHEET 5

SCALE AS SHOWN

DRG NO. 0888- K0574

REV A



- LEGEND**
-  PORT OF BUNDABERG MATERIAL RECLAMATION AREA (MRA)
 -  DREDGE MATERIAL LINE
 -  DREDGE AREA
 -  LEASE BOUNDARY
 -  SURRENDERED CADASTRE BOUNDARY
 -  BOUNDARY (OTHER)
 -  FENCE

PLANS AND DOCUMENTS referred to in the REFERRAL AGENCY RESPONSE

SARA ref: 2207-30170 SRA

Date: 20 September 2022

Amended in red by SARA on 20 September 2022

DREGING AND RECLMATION PLAN
SCALE 1:4000

REV	DATE	DESCRIPTION	BY	REVIEWED	APPROVED
A	25.6.22	ISSUED FOR DEVELOPMENT APPROVAL	MC	JL	-

CONSULTANT LOGO

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SURVEY / DESIGN REFERENCES

Survey By - INSITE SJC
Dated - 03.08.2021
Horizontal datum - MGA 94 ZONE 56
PM 3853
Vertical datum - AHD (LAND BASED)
LAT (MARINE - WHERE NOTED)

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BUNDABERG

Pacific Marine Base
Ship Repair | Barging | Project Support

DESIGNED BY	J.LAWLEY	MAY 2022
DES CHK	-	-
DRAWN	M.COLLINGS	MAY 2022
DRG CHK	J.LAWLEY	JUN 2022
REGISTERED PROFESSIONAL	J.LAWLEY	
REGISTRATION	LONJAC PTY LTD	
SIGNATURE		
No.	22281	
Date.	2	-

PROJECT		
PACIFIC MARINE BASE BUNDABERG MARINE INDUSTRY SITE		
DRAWING TITLE		
STAGES 1 AND 2 DREDGING AND RECLAMATION PLAN		
SCALE	DRG NO.	REV
AS SHOWN	0888 - K0600	A

Attachment 2 Approved Plans and Specifications

Pacific Marine Base Bundaberg, QLD

MARINE INDUSTRY SITE DEVELOPMENT APPROVAL

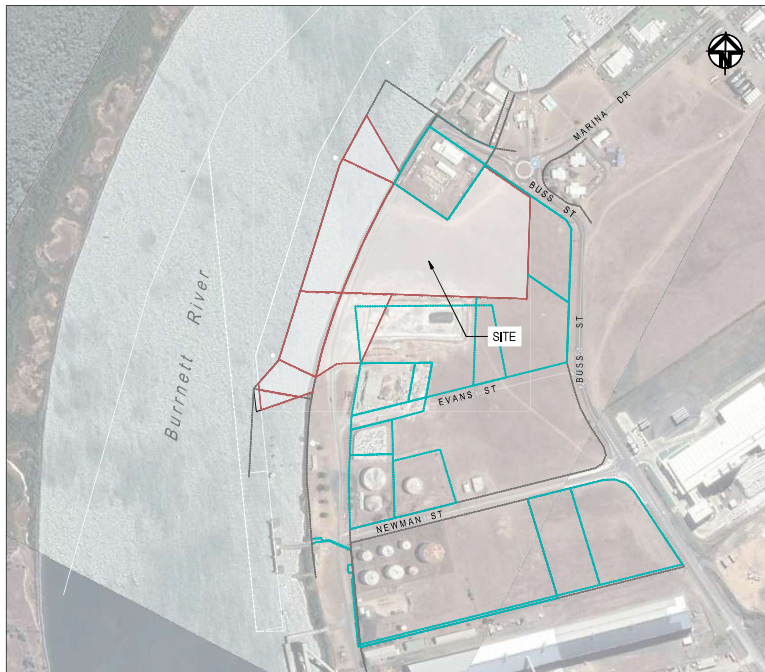


IMAGE OBTAINED FROM GOOGLE
LOCALITY PLAN
SCALE 1:4000

TYPE PLAN No DESCRIPTION

TYPE	PLAN No	DESCRIPTION
1 GENERAL		
	0888-G0001	DRAWING INDEX AND LOCALITY PLAN
2 CIVIL		
	0888-C0001	GENERAL NOTES
	0888-C0100	GENERAL LAYOUT PLAN
	0888-C0101	GENERAL LAYOUT PLAN - SITE FACILITIES
	0888-C0200	STAGING PLANS
	0888-C0390	SITE ACCESS PLAN AND TURNING PATHS
	0888-C0400	EARTHWORKS PLAN
	0888-C0500	GRADING PLAN
	0888-C0510	GRADING PLAN - SITE FACILITIES
	0888-C0600	PAVEMENT PLAN
	0888-C0620	SITE SECTIONS - SHEET 1 OF 4
	0888-C0621	SITE SECTIONS - SHEET 2 OF 4
	0888-C0622	SITE SECTIONS - SHEET 3 OF 4
	0888-C0623	SITE SECTIONS - SHEET 4 OF 4
	0888-C0950	MASTER SERVICES LAYOUT PLAN
	0888-C0960	MASTER SERVICES LAYOUT PLAN - SITE FACILITIES
3 ELECTRICAL		
	0888-E0100	ELECTRICAL SITE RETICULATION LAYOUT PLAN
	0888-E0300	COMMUNICATIONS SITE RETICULATION LAYOUT PLAN
	0888-E0500	SITE CCTV LAYOUT PLAN
4 HYDRAULICS		
	0888-0100	SITE POTABLE WATER RETICULATION PLANS, DETAILS & SECTIONS
	0888-0200	SITE FIRE WATER RETICULATION PLANS, DETAILS & SECTIONS
	0888-0300	SITE SEWER RETICULATION PLANS, DETAILS & SECTIONS
	0888-0400	STORMWATER LAYOUT AND CATCHMENT PLAN
	0888-0410	STORMWATER LAYOUT - SITE FACILITIES
5 MARITIME		
	0888-K0000	MARITIME NOTES AND TYPICAL SECTION
	0888-K0020	STAGE 2 - MARITIME LAYOUT
	0888-K0115	STAGE 1 - SET OUT
	0888-K0116	STAGE 2 - CELL SET OUT

TYPE PLAN No DESCRIPTION

	0888-K0120	STAGE 1 - RAMP DETAILS
	0888-K0126	STAGE 2 - CONCRETE DETAILS
	0888-K0127	STAGE 2 - WHARF TYPICAL SECTIONS AND DETAILS
	0888-K0138	STAGE 2 - FENDER AND BOLLARD LAYOUT
	0888-K0139	STAGE 2 - CONE FENDER PANNEL DETAILS
	0888-K0320	STAGE 2 MOORING PLAN
	0888-K0410	STAGE 1 ROCKWALL PLAN AND ELEVATION
	0888-K0420	STAGE 1 ROCKWALL TYPICAL SECTIONS
	0888-K0430	STAGE 2 ROCKWALL PLAN AND ELEVATION
	0888-K0440	STAGE 2 ROCKWALL TYPICAL SECTIONS
	0888-K0510	STAGE 1 DREDGING PLAN
	0888-K0520	STAGE 1 VOLUMES PLAN
	0888-K0550	STAGE 2 DREDGING PLAN
	0888-K0560	STAGE 2 VOLUMES PLAN
	0888-K0570	STAGES 1 AND 2 TYPICAL SECTIONS AND DETAILS SHEET 1
	0888-K0571	STAGES 1 AND 2 TYPICAL SECTIONS AND DETAILS SHEET 2
	0888-K0572	STAGES 1 AND 2 TYPICAL SECTIONS AND DETAILS SHEET 3
	0888-K0573	STAGES 1 AND 2 TYPICAL SECTIONS AND DETAILS SHEET 4
	0888-K0574	STAGES 1 AND 2 TYPICAL SECTIONS AND DETAILS SHEET 5
	0888-K0600	STAGES 1 AND 2 DREDGING AND RECLAMATION PLAN
	0888-K0650	STAGE 1 AND 2 SITE CROSS SECTIONS SHEET 1
	0888-K0651	STAGE 1 AND 2 SITE CROSS SECTIONS SHEET 2
	0888-K0652	STAGE 1 AND 2 SITE CROSS SECTIONS SHEET 3
	0888-K0653	STAGE 1 AND 2 SITE CROSS SECTIONS SHEET 4
	0888-K0710	STAGE 1 BEACON RELOCATION PLAN
	0888-K0720	STAGE 2 BEACON RELOCATION PLAN
6 ARCHITECTURAL		
	0888-A0210	ADMINISTRATION BUILDING FLOOR PLAN AND ELEVATIONS
	0888-A0211	SECURITY / GATEHOUSE FLOOR PLAN AND ELEVATIONS
7 LANDSCAPE		
	0888-L0001	LANDSCAPE CONCEPT PLAN - PLANTING PLAN
	0888-L0002	LANDSCAPE CONCEPT PLAN - PLANT SPECIES SCHEDULE, IMAGES AND NOTES

REV	DATE	DESCRIPTION	BY	REVIEWED	APPROVED
A	25.6.22	ISSUED FOR DEVELOPMENT APPROVAL	MC	JL	-

CONSULTANT LOGO

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SURVEY / DESIGN REFERENCES
Survey By - INSITE SJC
Dated - 13.08.2021
Horizontal datum - MGA 94 ZONE 56
Vertical datum - PM 9853
AND (LAND BASED)
LAT (MARINE - WHERE NOTED)

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CLIENT

Pacific Marine Base
Ship Repair | Barging | Project Support

DESIGNED BY J.LAWLEY MAY 2022
DESIGN CHECKED BY M.COLLINGS MAY 2022
DRAWN BY J.LAWLEY JUN 2022
REGISTERED PROFESSIONAL
REGISTRATION NO. 22261
SIGNATURE
No. 22261
Date 28.6.2022

SCALE 1:4000 AT ORIGINAL SIZE

PROJECT
PACIFIC MARINE BASE BUNDABERG
MARINE INDUSTRY SITE

DRAWING TITLE
DRAWING INDEX AND LOCALITY PLAN

SCALE AS SHOWN
DRC NO. 0888 - G0001
REV A

EXISTING FEATURES, CLEARING DEMOLITION

- 1. ALL MATERIALS TO BE DEMOLISHED/REMOVED ARE TO BE DISPOSED OFF SITE IN ACCORDANCE WITH GLADSTONE PORT CORPORATION, BUNDABERG REGIONAL COUNCIL, STATE AND COMMONWEALTH REQUIREMENTS.

SURVEY NOTES & DETAILS

- 1. COORDINATE SYSTEM MGA ZONE 56 (GDA94)
- 2. VERTICAL DATUM AHD
- 3. CONTRACTOR TO LOCATE ALL LEVELS FROM ESTABLISHED BENCH MARKS.

SITE ADDRESS

BURNETT HEADS, BUNDABERG, QUEENSLAND 4670
LEASE AU on SP305678, LEASE AY on SP335869 all in LOT 501 on SP279707. SUB-LEASE AW on SP305678, SUB-LEASE AZ on SP335869, SUB-LEASE BA AND BB on SP335870 all in LOT 287 on SP166199, SUB-LEASE BC on SP335870 in LOT 276 on SP128643
LOCAL AUTHORITY: BUNDABERG REGIONAL COUNCIL

SITE LAYOUT

- 1. ALL DIMENSIONS ARE IN METERS UNLESS NOTED OTHERWISE
- 2. UNLESS SPECIFIED OTHERWISE ALL MATERIALS AND WORK SHALL COMPLY WITH THE RELEVANT AUSTRALIAN STANDARDS.
- 3. TEMPORARY SECURITY FENCE SHALL BE PROVIDED AT ALL TIMES AND TO SURROUND CONSTRUCTION WORK SITE IN ITS ENTIRETY.

INTERSECTION DETAILS

- 1. KERB AND CHANNEL LEVELS SHOWN ARE TO LIP OF KERB AND CHANNEL OR PAVEMENT AT FACE OF KERB ONLY.
- 2. ALL DIMENSIONS AND KERB AND CHANNEL RADII SHOWN ARE TO THE LIP.

EARTHWORKS, EROSION SEDIMENT CONTROL

- 1. ALL SEDIMENT AND EROSION CONTROL MEASURES ARE TO BE IN ACCORDANCE WITH 'BEST PRACTICE EROSION AND SEDIMENT CONTROL' PUBLISHED BY INTERNATIONAL EROSION CONTROL ASSOCIATION, AUSTRALASIA, 2008.
- 2. STOCKPILES, BORROW PITS, STORAGE AREAS TO BE CONSTRUCTED IN ACCORDANCE WITH PRINCIPLES DETAILED IN 'BEST PRACTICE EROSION AND SEDIMENT CONTROL' PUBLISHED BY INTERNATIONAL EROSION CONTROL ASSOCIATION, AUSTRALASIA, 2008.

SIGNAGE LINEMARKING NOTES

- 1. ALL ROAD SIGNAGE AND PAVEMENT LINE MARKING TO BE IN ACCORDANCE WITH QUEENSLAND DEPARTMENT OF MAIN ROADS PUBLICATION MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (MUTCD).
- 2. ALL EXISTING ROAD SIGNAGE REQUIRED TO BE RE-LOCATED AS A RESULT OF CONSTRUCTION WORKS SHALL BE TAKEN UP AND PLACED IN STORAGE FOR RE-INSTALLMENT FOLLOWING COMPLETION OF CONSTRUCTION WORKS.

SEWER RETICULATION

- 1. ALL WORKS TO BE UNDERTAKEN STRICTLY IN ACCORDANCE WITH GLADSTONE PORT CORPORATION AND BUNDABERG REGIONAL COUNCIL REQUIREMENTS AND SPECIFICATIONS.
- 2. ALL SEWERS SHALL BE Dia 150 uPVC CLASS 'SN8' RUBBER RING JOINTED CODE 'R' IN 3m MAXIMUM LENGTHS UNLESS NOTED OTHERWISE ON PLANS.
- 3. uPVC PIPES SHALL COMPLY WITH AS1280.

WATER RETICULATION

- 1. THE CONTRACTOR SHALL COVER AND ALLOW FOR ALL COSTS ASSOCIATED WITH REMOVING, RE-TRENCHING AND RELAYING NEW WATER MAINS FOLLOWING PEGGING OF CADASTRAL BOUNDARIES SHOULD NEW MAINS NOT BE LOCATED ON CORRECT ALIGNMENTS AS DETAILED ON THESE PLANS ON COMPLETION OF CONSTRUCTION WORKS.
- 2. ALL WORKS TO BE UNDERTAKEN STRICTLY IN ACCORDANCE WITH GLADSTONE PORT CORPORATION/BUNDABERG REGIONAL COUNCIL REQUIREMENTS AND SPECIFICATIONS.

STORMWATER DRAINAGE NOTES

- 1. FOR CONNECTIONS TO EXISTING STORMWATER DRAINAGE NETWORKS, LEVELS AND GRADIENTS OF STORMWATER DRAINAGE PIPES AND/OR OPEN DRAINS MAY BE VARIED TO ACHIEVE A SATISFACTORY CONNECTION. WRITTEN APPROVAL FROM THE SUPERINTENDENT AND COUNCIL SHALL BE OBTAINED PRIOR.
- 2. ALL NEW AND EXISTING STORMWATER DRAINAGE NETWORKS SHALL BE KEPT FREE OF SEDIMENT AND DEBRIS. ALL NEW STORMWATER LINES SHALL BE CLEANED OF ALL SEDIMENT AND DEBRIS PRIOR TO 'ON-MAINTENANCE' INSPECTION.

GROUND IMPROVEMENT

- 1. REMOVE, DISPOSE OR REUSE EXISTING TOP SOIL (NOM. 100mm)
- 2. REMOVE, DISPOSE OR REUSE EXISTING FILL TO ACHIEVE SUBGRADE LEVEL.
- 3. REMOVE AND RE-COMPACT MINIMUM 500mm OF EXISTING. PLACE AND COMPACT MINIMUM 400mm OF ROCK FILL (CBR 750).

PAVEMENTS

- 1. ASPHALT PAVEMENT TYPES AND SPECIFICATIONS AS PER THE DEPARTMENT OF TRANSPORT AND MAIN ROADS.

LANDSCAPE

- 1. LANDSCAPE WORKS TO BE UNDERTAKEN AS PER BUNDABERG REGIONAL COUNCIL REQUIREMENTS AND SPECIFICATIONS



Table with columns: REV, DATE, DESCRIPTION, BY, REVIEWED, APPROVED

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Ph +61 (0) 499 000 202
jim@lonjac.net.au

SURVEY / DESIGN REFERENCES
Survey By - INSITE SJC
Dated - 03.08.2021
Horizontal datum - MGA 94, ZONE 56, PM 3853
Vertical datum - AHD (LAND BASED) LAT (MARINE - WHERE NOTED)
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CLIENT: Pacific Marine Base
Ship Repair | Bargaining | Project Support

Table with columns: DESIGNED BY, DES CHK, DRAWN, DRG CHK, REGISTERED PROFESSIONAL, REGISTRATION, SIGNATURE, No., Date

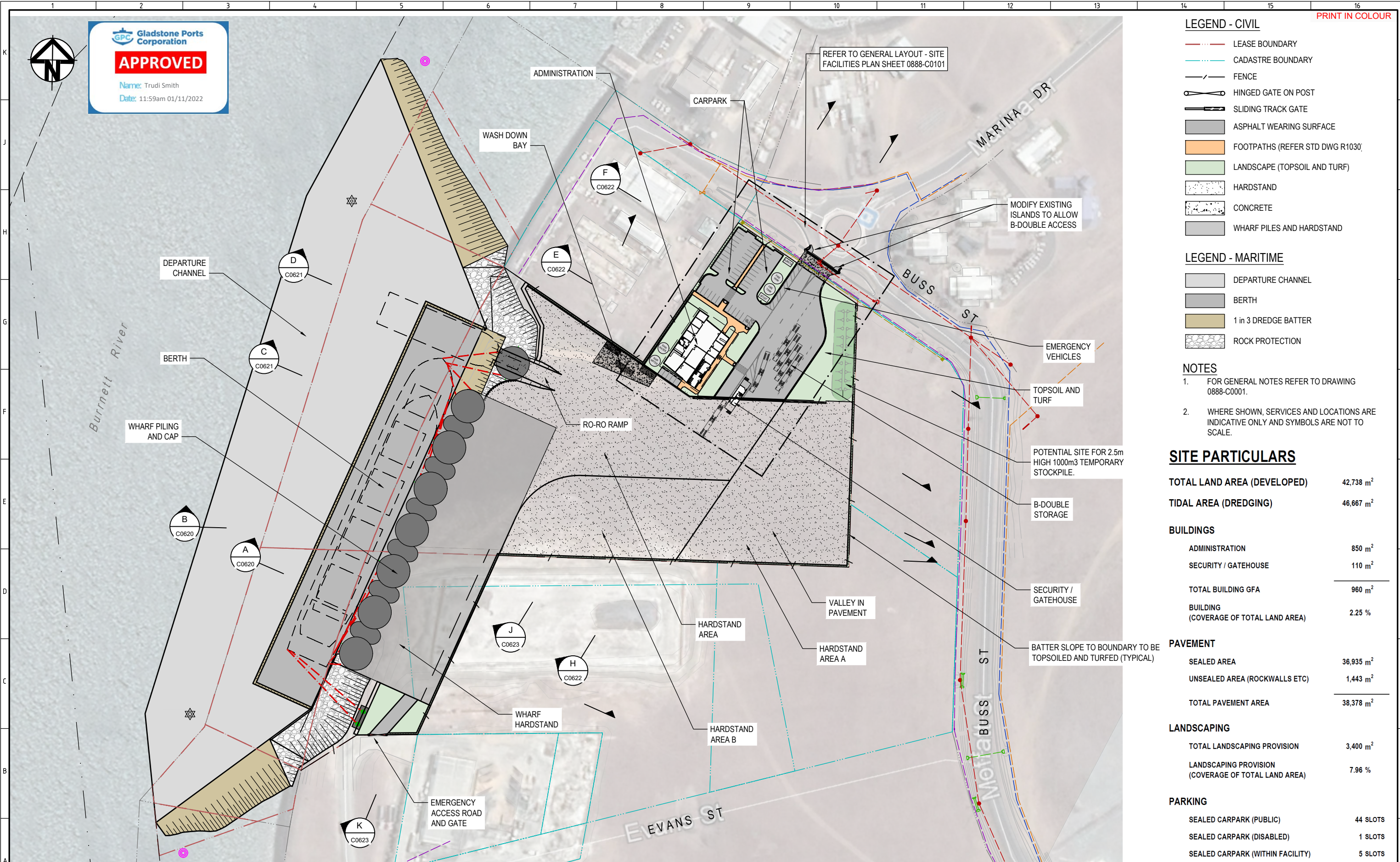
Table with columns: PROJECT, DRAWING TITLE, SCALE, DRG NO., REV



GPC Gladstone Ports Corporation

APPROVED

Name: Trudi Smith
Date: 11:59am 01/11/2022



- LEGEND - CIVIL**
- LEASE BOUNDARY
 - CADASTRE BOUNDARY
 - FENCE
 - HINGED GATE ON POST
 - SLIDING TRACK GATE
 - ASPHALT WEARING SURFACE
 - FOOTPATHS (REFER STD DWG R1030)
 - LANDSCAPE (TOPSOIL AND TURF)
 - HARDSTAND
 - CONCRETE
 - WHARF PILES AND HARDSTAND
- LEGEND - MARITIME**
- DEPARTURE CHANNEL
 - BERTH
 - 1 in 3 DREDGE BATTER
 - ROCK PROTECTION

- LEGEND - MARITIME**
- DEPARTURE CHANNEL
 - BERTH
 - 1 in 3 DREDGE BATTER
 - ROCK PROTECTION

- NOTES**
- FOR GENERAL NOTES REFER TO DRAWING 0888-C0001.
 - WHERE SHOWN, SERVICES AND LOCATIONS ARE INDICATIVE ONLY AND SYMBOLS ARE NOT TO SCALE.

SITE PARTICULARS

TOTAL LAND AREA (DEVELOPED)	42,738 m ²
TIDAL AREA (DREDGING)	46,667 m ²
BUILDINGS	
ADMINISTRATION	850 m ²
SECURITY / GATEHOUSE	110 m ²
TOTAL BUILDING GFA	960 m²
BUILDING (COVERAGE OF TOTAL LAND AREA)	2.25 %
PAVEMENT	
SEALED AREA	36,935 m ²
UNSEALED AREA (ROCKWALLS ETC)	1,443 m ²
TOTAL PAVEMENT AREA	38,378 m²
LANDSCAPING	
TOTAL LANDSCAPING PROVISION	3,400 m ²
LANDSCAPING PROVISION (COVERAGE OF TOTAL LAND AREA)	7.96 %
PARKING	
SEALED CARPARK (PUBLIC)	44 SLOTS
SEALED CARPARK (DISABLED)	1 SLOTS
SEALED CARPARK (WITHIN FACILITY)	5 SLOTS
B-DOUBLE STORAGE AT GATEHOUSE	4 SLOTS

SITE PLAN
SCALE 1:1000

<p>CONSULTANT LOGO</p> <p>LONJAC CIVIL • MARINE • MANAGEMENT</p> <p>976 PINE CREEK ROAD, Eleotra, Queensland, 4670 Ph +61 (0) 499 000 202 jim@lonjac.net.au</p>		<p>SURVEY / DESIGN REFERENCES</p> <p>Survey By - INSITE SJC Dated - 03.08.2021 Horizontal datum - MGA 94 ZONE 56 PH 3853 Vertical datum - AHD (LAND BASED) LAT (MARINE - WHERE NOTED)</p> <p>CLIENT</p> <p>BUNDBERG Pacific Marine Base Ship Repair Barging Project Support</p>		<p>DESIGNED BY: J.LAWLEY MAY 2022</p> <p>DES CHK: -</p> <p>DRAWN: M.COLLINGS MAY 2022</p> <p>DRG CHK: J.LAWLEY JUN 2022</p> <p>REGISTERED PROFESSIONAL: J.LAWLEY</p> <p>REGISTRATION: LONJAC PTY LTD</p> <p>SIGNATURE: [Signature]</p> <p>No: 22281</p> <p>Date: 29.6.2022</p>		<p>PROJECT</p> <p>PACIFIC MARINE BASE BUNDBERG MARINE INDUSTRY SITE</p> <p>DRAWING TITLE</p> <p>GENERAL LAYOUT PLAN</p> <p>SCALE AS SHOWN</p> <p>DRG NO: 0888 - C0100</p> <p>REV A</p>											
<table border="1"> <tr> <th>REV</th> <th>DATE</th> <th>DESCRIPTION</th> <th>BY</th> <th>REVIEWED</th> <th>APPROVED</th> </tr> <tr> <td>A</td> <td>25.6.22</td> <td>ISSUED FOR FOR DEVELOPMENT APPROVAL</td> <td>MC</td> <td>JL</td> <td>-</td> </tr> </table>	REV	DATE	DESCRIPTION	BY	REVIEWED	APPROVED	A	25.6.22	ISSUED FOR FOR DEVELOPMENT APPROVAL	MC	JL	-					
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APPROVED

Name: Trudi Smith
Date: 12:00pm 01/11/2022



LEGEND - CIVIL

- LEASE BOUNDARY
- CADASTRE BOUNDARY
- FENCE
- HINGED GATE ON POST
- SLIDING TRACK GATE
- ASPHALT WEARING SURFACE
- FOOTPATHS (REFER STD DWG R1030)
- LANDSCAPE (TOPSOIL AND TURF)
- HARDSTAND
- CONCRETE
- KC KERB AND CHANNEL TYPE B1 (BUNDABERG STD DRG R1020)
- BK BARRIER KERB TYPE B2 (BUNDABERG STD DRG R1020)
- DC INVERT TYPE (DISH CROSSING) (BUNDABERG STD DRG R1020, 300mm LIP)
- KERB (RAMP) PEDESTRIAN CROSSING (BUNDABERG STD DRG R-090)

- NOTES**
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REV	DATE	DESCRIPTION	BY	REVIEWED	APPROVED
A	25.6.22	ISSUED FOR DEVELOPMENT APPROVAL	MC	JL	-

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SURVEY / DESIGN REFERENCES

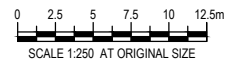
Survey By - INSITE SJC
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Horizontal datum - MGA 94 ZONE 56
PM 3853
Vertical datum - AHD (LAND BASED)
LAT (MARINE - WHERE NOTED)

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CLIENT

BUNDABERG
Pacific Marine Base
Ship Repair | Barging | Project Support

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DES CHK	-	-
DRAWN	M.COLLINGS	MAY 2022
DRG CHK	J.LAWLEY	JUN 2022
REGISTERED PROFESSIONAL	J.LAWLEY	
REGISTRATION	LONJAC PTY LTD	
SIGNATURE		
No.	22281	
Date.	29.6.2022	



PROJECT
PACIFIC MARINE BASE BUNDABERG
MARINE INDUSTRY SITE

DRAWING TITLE
GENERAL LAYOUT PLAN
SITE FACILITIES DETAIL

SCALE AS SHOWN DRG NO. **0888 - C0101** REV **A**

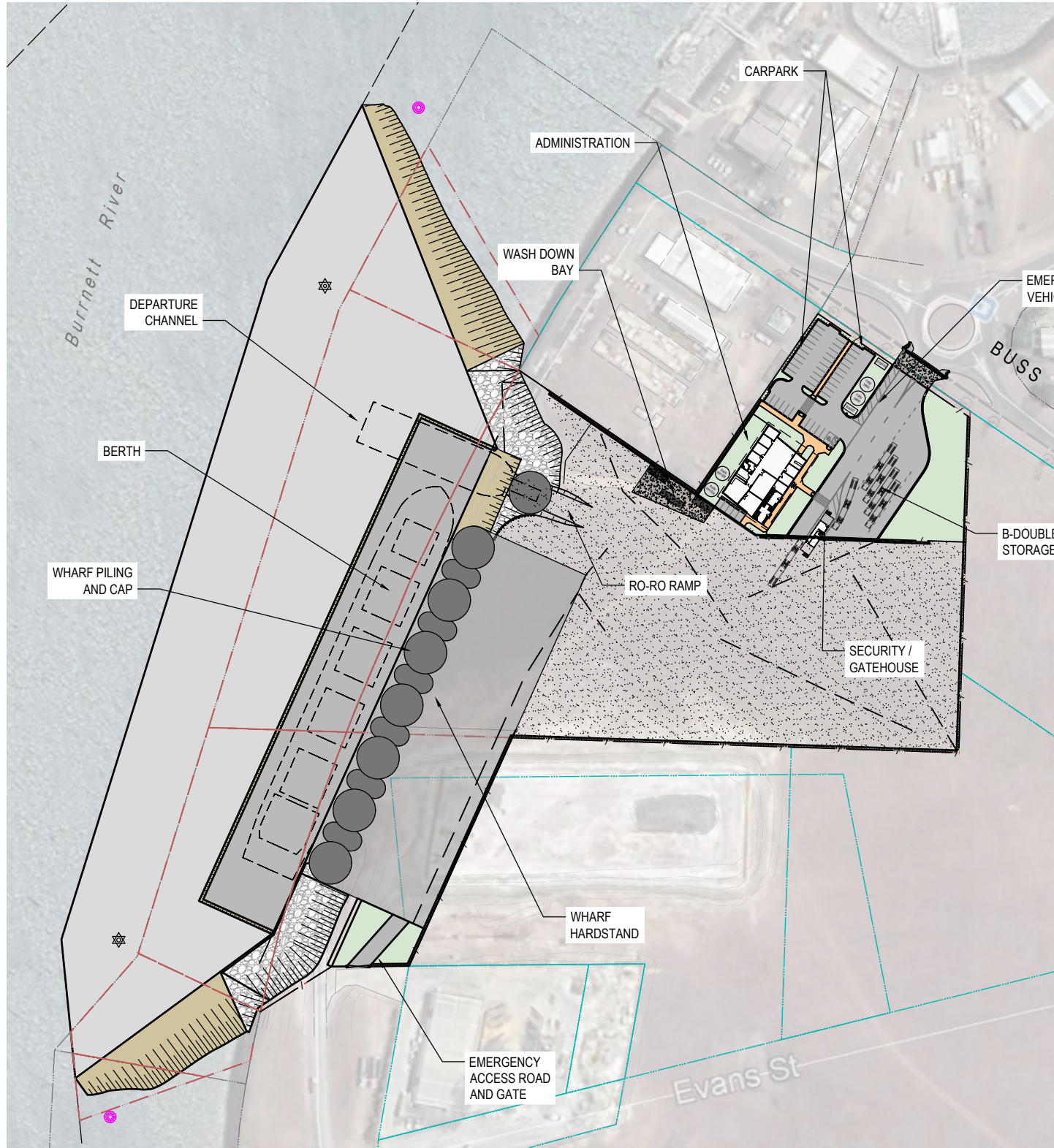
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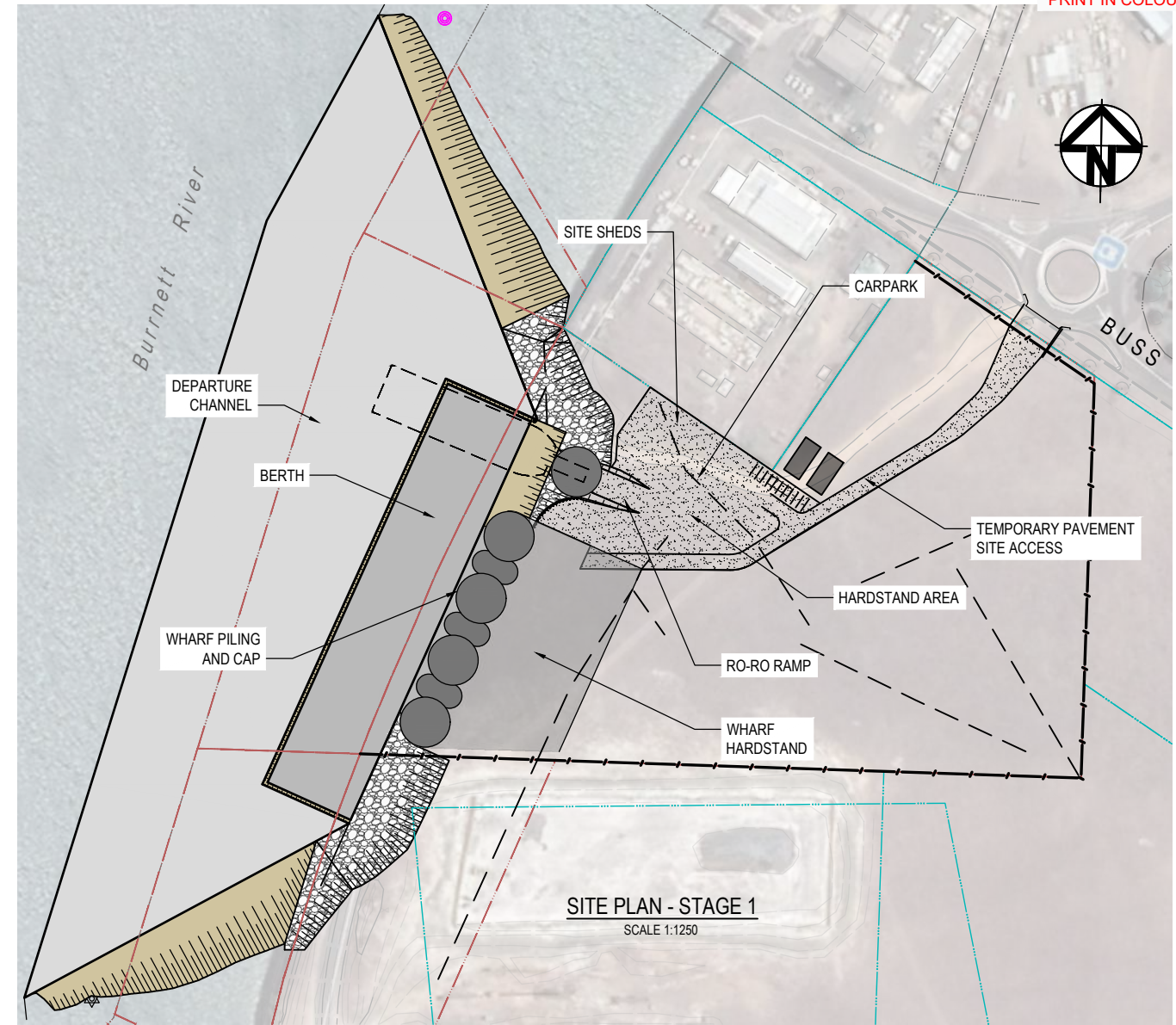


APPROVED

Name: Trudi Smith
Date: 12:00pm 01/11/2022



SITE PLAN - STAGE 2
SCALE 1:1250



SITE PLAN - STAGE 1
SCALE 1:1250

LEGEND - CIVIL

- LEASE BOUNDARY
- CADASTRE BOUNDARY
- FENCE
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- LANDSCAPE (TOPSOIL AND TURF)
- HARDSTAND
- CONCRETE
- WHARF PILES AND HARDSTAND

LEGEND - MARITIME

- DEPARTURE CHANNEL
- BERTH
- 1 in 3 DREDGE BATTER
- ROCK PROTECTION

PROPOSED DELIVERY STAGES

IN LINE WITH THE PMBB FUNCTIONAL DESIGN BRIEF, THERE IS AN INTENTION TO CONSTRUCT THE FACILITIES IN STAGES, WHICH WILL PRIORITISE THE WATERFRONT ELEMENTS AND ESSENTIAL LAND SIDE INFRASTRUCTURE. THE ULTIMATE DEVELOPMENT CASE WILL BE DELIVERED OVER TWO STAGES.

STAGE 1 - COMMERCIAL VESSEL WHARF

STAGE 1 IS PROPOSED TO INCORPORATE THE DEVELOPMENT OF THE SHOREFRONT, WHICH WILL INCLUDE:

- SHEET PILE WALL QUAY WALL ALONG SHOREFRONT AND RO-RO LANDING;
- WHARF LAND BACKING / HARDSTAND;
- DREDGING OF THE BERTH POCKET AND ASSOCIATED APPROACHES AS REQUIRED TO PROVIDE SUFFICIENT UNDER KEEL CLEARANCE FOR VESSELS; AND
- PMBB OFFICE;
- ACCESS ROAD AND SITE FENCING, ASSOCIATED STORM WATER DRAINAGE AND SERVICES.

STAGE 2 - SHIP REPAIR AND MAINTENANCE FACILITY

STAGE 2 IS TO INCORPORATE THE REMAINING ELEMENTS AND FUNCTIONAL REQUIREMENTS BERTHING OF MAXIMUM SIZE OSOM VESSELS. THE COMPLETION OF STAGE 2 WILL INFILL THE REMAINING OPERATIONAL REQUIREMENTS TO ACHIEVE THE ULTIMATE DEVELOPMENT CASE. THIS WILL INCLUDE:

- REMAINING SHEET PILE WALL ALONG SHOREFRONT;
- REMAINING DREDGING OF BERTH POCKETS AND ASSOCIATED APPROACHES;
- WASH DOWN AREA;
- THE REMAINING HARDSTAND AREAS WITHIN THE DEFINED LOT BOUNDARIES TO SUPPORT ACCESS / EGRESS, PARKING, VEHICLE CIRCULATION AND BUILDINGS.
- DRAINAGE INFRASTRUCTURE (STORM WATER AND WATER TREATMENT / IMPROVEMENT DEVICES);
- REMAINING SITE SERVICES - ELECTRICAL / HYDRAULICS / COMMUNICATIONS AND FIRE WATER;
- ADMINISTRATION BUILDING

REV	DATE	DESCRIPTION	BY	REVIEWED	APPROVED
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CONSULTANT LOGO



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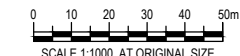
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CLIENT



BUNDABERG
Pacific Marine Base
Ship Repair | Barging | Project Support

DESIGNED BY	J.LAWLEY	MAY 2022
DES CHK	-	-
DRAWN	M.COLLINGS	MAY 2022
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REGISTERED PROFESSIONAL	J.LAWLEY	
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SIGNATURE		
No.	22281	
Date.	29.6.2022	



PROJECT		PACIFIC MARINE BASE BUNDABERG MARINE INDUSTRY SITE	
DRAWING TITLE		STAGING PLANS	
SCALE	AS SHOWN	DRG NO.	0888 - C0200
REV	A		



Gladstone Ports Corporation

APPROVED

Name: Trudi Smith
Date: 12:02pm 01/11/2022

EXISTING RAISED ISLAND TO BE MODIFIED FOR B-DOUBLE ACCESS TRIM ISLAND BACK AND PROVIDE 2.0m RAD. KERBING MR TYPE 10 (REFER DETAIL BELOW).

PROVIDE NEW INDUSTRIAL / COMMERCIAL DRIVEWAY SLAB AS PER BRC STANDARD DRAWING R1011. DRIVEWAY TO INCLUDE INDUSTRIAL GRADE VEHICLE CROSSING GUTTER, EXTENDED AS SHOWN ON THE PLANS TO MATCH NEW ISLAND KERB CONSTRUCTION. MATCH LEVELS TO EXISTING PAVEMENT AS PER PAVEMENT CONNECTION DETAIL BELOW.

GRATED DRAIN AS PER BRC STANDARD DRAWING R1011.

EXISTING RAISED ISLAND TO BE MODIFIED FOR B-DOUBLE ACCESS TRIM ISLAND BACK AND PROVIDE 1.5m RAD. KERBING MR TYPE 10 (REFER DETAIL BELOW)

ENSURE DRIVEWAY SLAB DOES NOT INTERFERE WITH EXISTING PALM TREE

NOTES

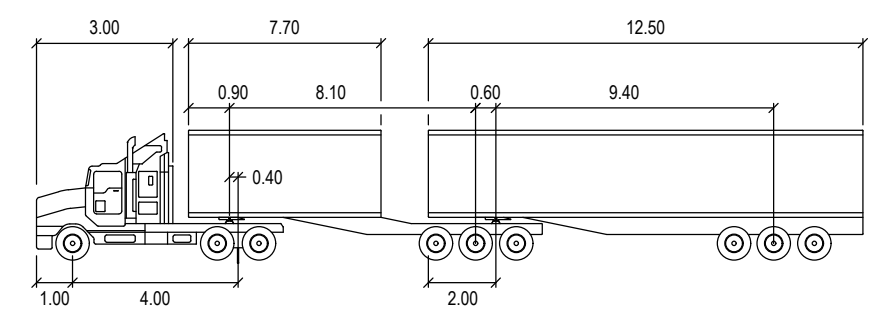
- FOR GENERAL NOTES REFER TO DRAWING 0888-C0001.
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LEGEND - CIVIL

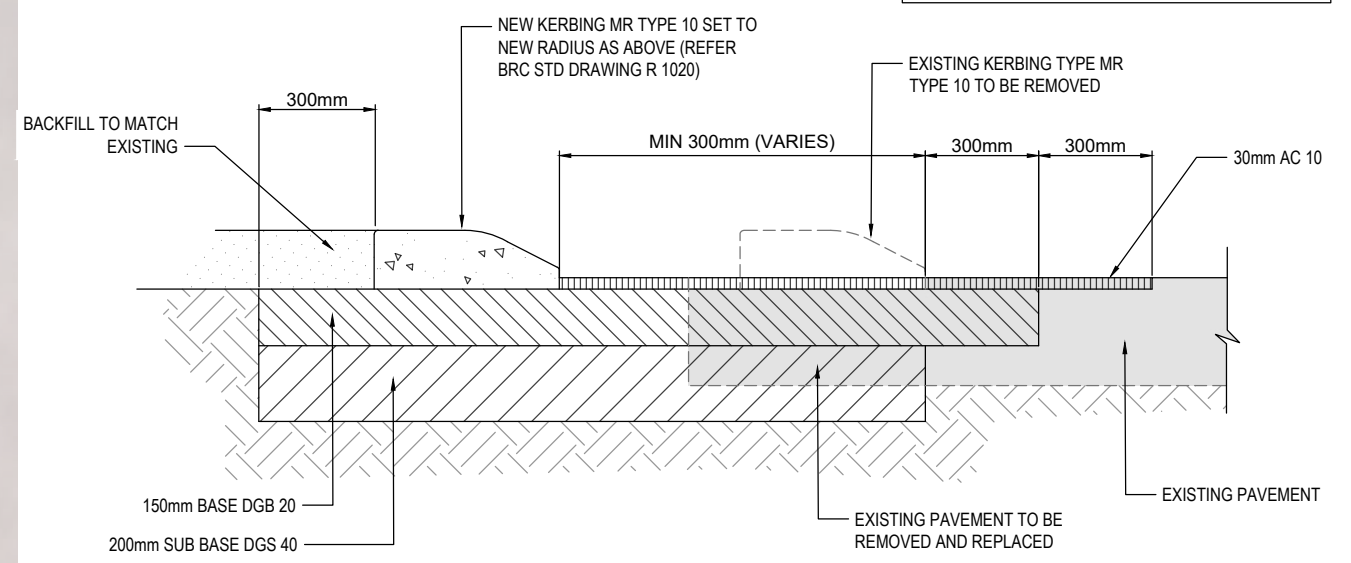
- LEASE BOUNDARY
- CADASTRE BOUNDARY
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- HINGED GATE ON POST
- SLIDING TRACK GATE
- ASPHALT WEARING SURFACE
- FOOTPATHS (REFER STD DWG R1030)
- LANDSCAPE (TOPSOIL AND TURF)
- HARDSTAND
- CONCRETE

B-DOUBLE 25M meters

Tractor Width	: 2.50	Lock to Lock Time	: 6.0
Trailer Width	: 2.50	Steering Angle	: 20.7
Tractor Track	: 2.50	Articulating Angle	: 70.0
Trailer Track	: 2.50		



NOTE: PAVEMENT REINSTATEMENT SIMILAR FOR CONNECTION OF NEW VEHICLE CROSSING / DRIVEWAY SLAB CONNECTION TO EXISTING BUSS ST PAVEMENT.



PAVEMENT DETAILS ARE INDICATIVE ONLY AND SHALL BE CONFIRMED WITH BRC PRIOR TO CONSTRUCTION

BUSS ST PAVEMENT CONNECTION DETAIL

SCALE 1:10

REV	DATE	DESCRIPTION	BY	REVIEWED	APPROVED
A	25.6.22	ISSUED FOR DEVELOPMENT APPROVAL	MC	JL	-

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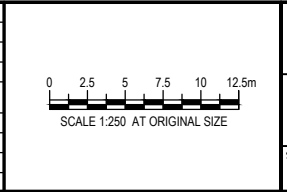
SURVEY / DESIGN REFERENCES
Survey By - INSITE SJC
Dated - 03.08.2021
Horizontal datum - MGA 94 ZONE 56
PM 3853
Vertical datum - AHD (LAND BASED)
LAT (MARINE - WHERE NOTED)

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CLIENT

BUNDABERG
Pacific Marine Base
Ship Repair | Barging | Project Support

DESIGNED BY	J.LAWLEY	MAY 2022
DES CHK	-	-
DRAWN	M.COLLINGS	MAY 2022
DRG CHK	J.LAWLEY	JUN 2022
REGISTERED PROFESSIONAL	J.LAWLEY	
REGISTRATION	LONJAC PTY LTD	
SIGNATURE	<i>[Signature]</i>	
No.	22281	
Date.	29.6.2022	



PROJECT
PACIFIC MARINE BASE BUNDABERG
MARINE INDUSTRY SITE

DRAWING TITLE
SITE ACCESS PLAN AND
TURNING PATHS

SCALE AS SHOWN

DRG NO. **0888 - C0390**

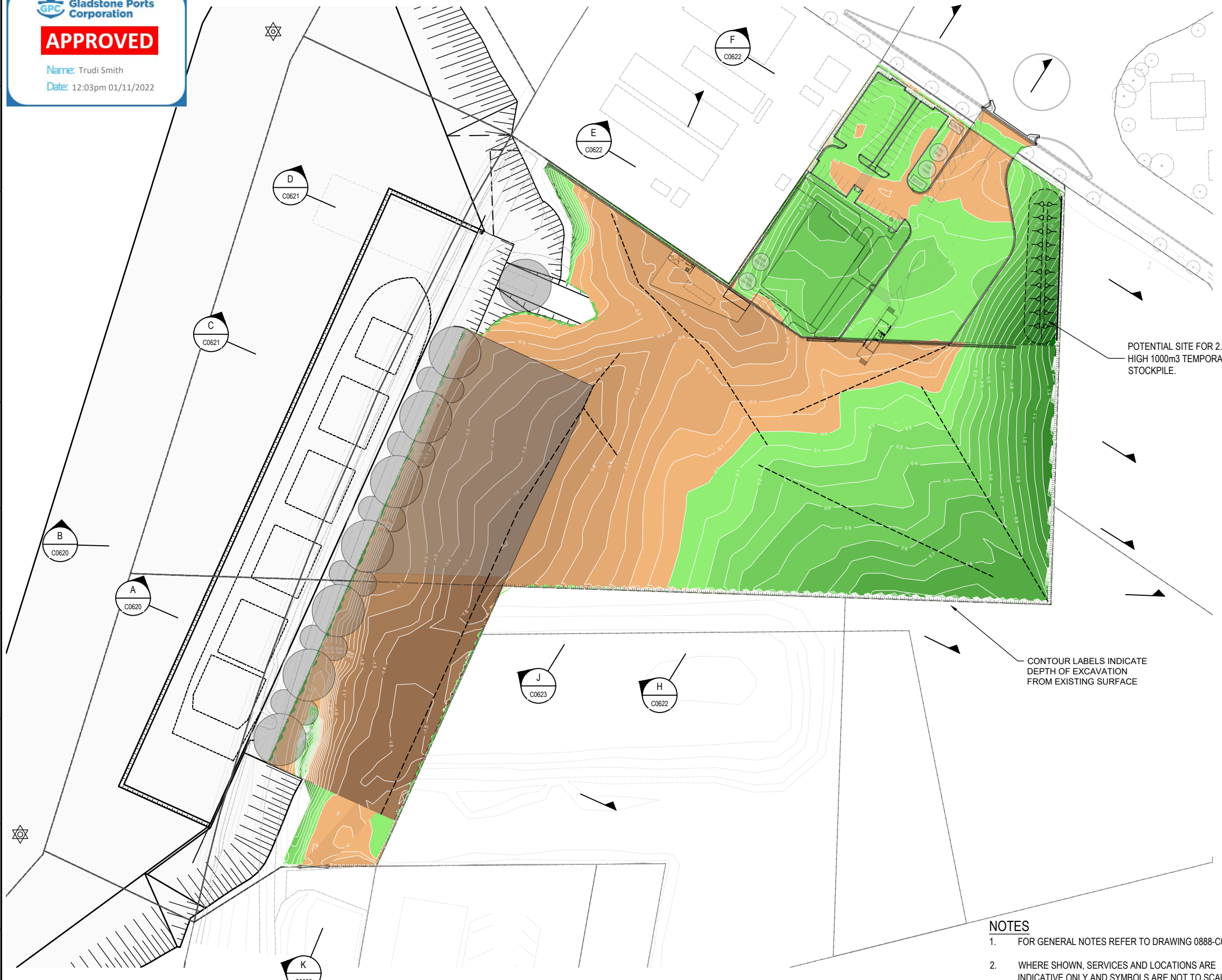
REV **A**

GPC Gladstone Ports Corporation

APPROVED

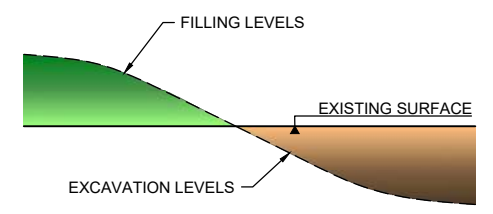
Name: Trudi Smith
Date: 12:03pm 01/11/2022

EXCAVATION (CUT)		FILLING	
DEPTH (m) FROM EXISTING SURFACE		THICKNESS (m) FROM EXISTING SURFACE	
0.0 to -0.2	[Color swatch]	0.0 to 0.2	[Color swatch]
-0.2 to -0.4	[Color swatch]	0.2 to 0.4	[Color swatch]
-0.4 to -0.6	[Color swatch]	0.4 to 0.6	[Color swatch]
-0.6 to -0.8	[Color swatch]	0.6 to 0.8	[Color swatch]
-0.8 to -1.0	[Color swatch]	0.8 to 1.0	[Color swatch]
-1.0 to -1.2	[Color swatch]	1.0 to 1.2	[Color swatch]
-1.2 to -1.4	[Color swatch]	1.2 to 1.4	[Color swatch]
-1.4 to -1.6	[Color swatch]	1.4 to 1.6	[Color swatch]
-1.6 to -1.8	[Color swatch]	1.6 to 1.8	[Color swatch]
-1.8 to -2.0	[Color swatch]	1.8 to 2.0	[Color swatch]
-2.0 to -2.2	[Color swatch]	2 to 5	[Color swatch]
-2.2 to -2.4	[Color swatch]		
-2.4 to -2.5	[Color swatch]		



POTENTIAL SITE FOR 2.5m HIGH 1000m3 TEMPORARY STOCKPILE.

CONTOUR LABELS INDICATE DEPTH OF EXCAVATION FROM EXISTING SURFACE



EXCAVATION THICKNESS DETAIL NTS

VOLUME MOVEMENT TABLES (EXCAVATION)

DEPTH (m) FROM EXISTING		VOLUME (m³)	
FROM	TO	CUT	FILL
-0.200	0.000	-3695.352	0.000
-0.400	-0.200	-2854.334	0.000
-0.600	-0.400	-2102.409	0.000
-0.800	-0.600	-1693.169	0.000
-1.000	-0.800	-1538.629	0.000
-1.200	-1.000	-1382.674	0.000
-1.400	-1.200	-1033.094	0.000
-1.600	-1.400	-433.077	0.000
-1.800	-1.600	-35.412	0.000
-2.000	-1.800	0.000	0.000
-2.200	-2.000	0.000	0.000
-2.400	-2.200	0.000	0.000
-2.500	-2.400	0.000	0.000
0.000	0.200	0.000	3064.174
0.200	0.400	0.000	2153.892
0.400	0.600	0.000	1434.599
0.600	0.800	0.000	806.233
0.800	1.000	0.000	395.756
1.000	1.200	0.000	190.366
1.200	1.400	0.000	60.671
1.400	1.600	0.000	24.552
1.600	1.800	0.000	9.023
1.800	2.000	0.000	1.615
2.000	5.000	0.000	0.037

Total cut	-14768.149
Total fill	8140.916
Total balance	-6627.233
ie excess of cut over fill	6627.233

- NOTES**
- FOR GENERAL NOTES REFER TO DRAWING 0888-C0001.
 - WHERE SHOWN, SERVICES AND LOCATIONS ARE INDICATIVE ONLY AND SYMBOLS ARE NOT TO SCALE.
 - ALL VOLUMES IN SITU CUBIC METRES

PLAN SCALE 1:750

REV	DATE	DESCRIPTION	BY	REVIEWED	APPROVED
A	25.6.22	ISSUED FOR DEVELOPMENT APPROVAL	MC	JL	-

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SURVEY / DESIGN REFERENCES

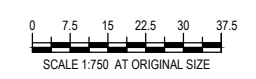
Survey By - INSITE SJC
Dated - 03.08.2021
Horizontal datum - MGA 94 ZONE 56 PM 3853
Vertical datum - AHD (LAND BASED) LAT (MARINE - WHERE NOTED)

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CLIENT

BUNDBERG
Pacific Marine Base
Ship Repair | Barging | Project Support

DESIGNED BY	J.LAWLEY	MAY 2022
DES CHK	-	-
DRAWN	M.COLLINGS	MAY 2022
DRG CHK	J.LAWLEY	JUN 2022
REGISTERED PROFESSIONAL	J.LAWLEY	
REGISTRATION	LONJAC PTY LTD	
SIGNATURE	<i>[Signature]</i>	
No.	22281	
Date.	29.6.2022	



PROJECT
PACIFIC MARINE BASE BUNDBERG
MARINE INDUSTRY SITE

DRAWING TITLE
EARTHWORKS PLAN

SCALE AS SHOWN

DRG NO. **0888 - C0400**

REV **A**

LEGEND - CIVIL

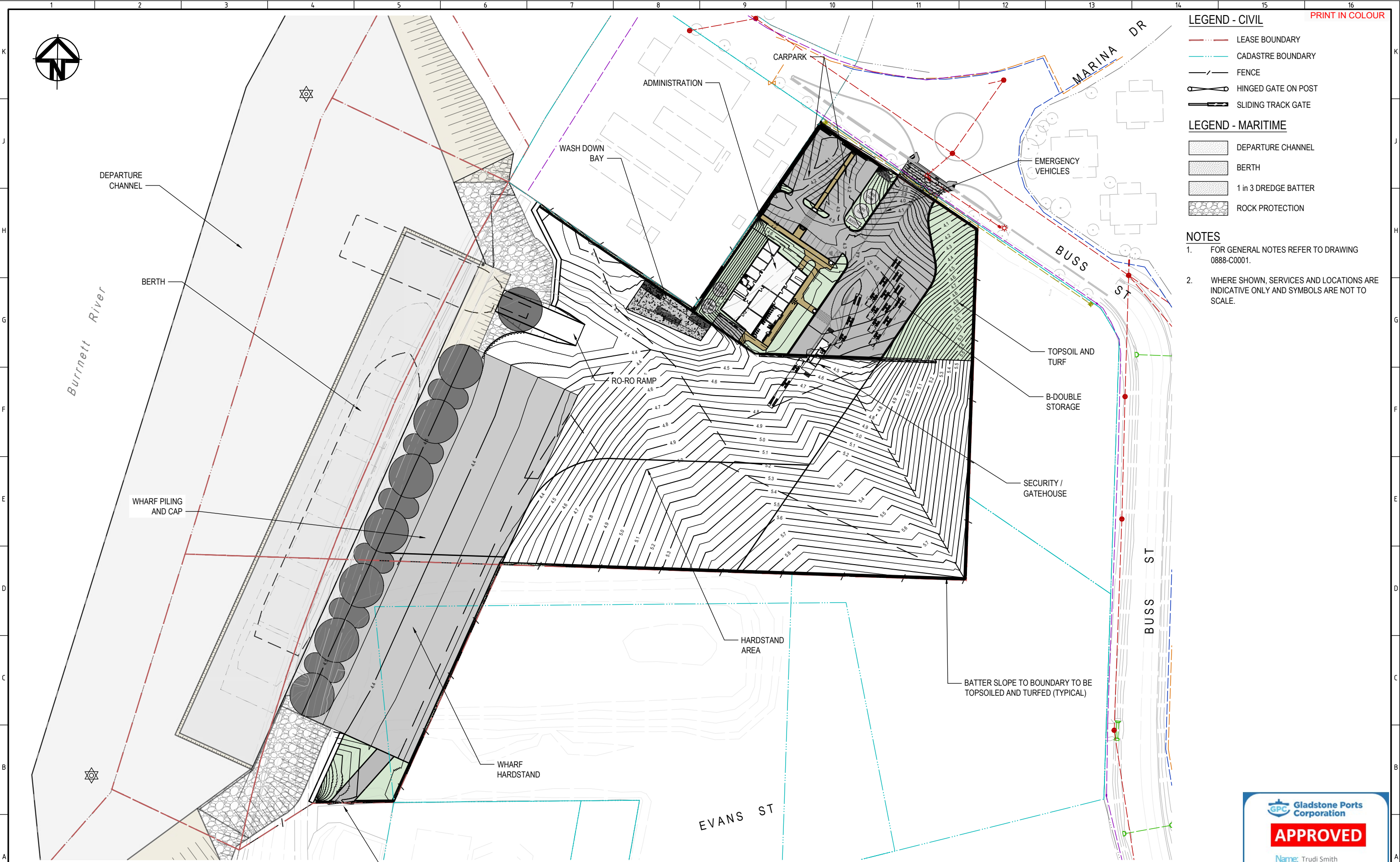
- LEASE BOUNDARY
- CADASTRE BOUNDARY
- FENCE
- HINGED GATE ON POST
- SLIDING TRACK GATE

LEGEND - MARITIME

- DEPARTURE CHANNEL
- BERTH
- 1 in 3 DREDGE BATTER
- ROCK PROTECTION

NOTES

- FOR GENERAL NOTES REFER TO DRAWING 0888-C0001.
- WHERE SHOWN, SERVICES AND LOCATIONS ARE INDICATIVE ONLY AND SYMBOLS ARE NOT TO SCALE.



SITE PLAN SCALE 1:1000

Gladstone Ports Corporation
APPROVED
 Name: Trudi Smith
 Date: 12:03pm 01/11/2022

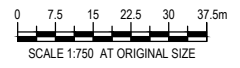
REV	DATE	DESCRIPTION	BY	REVIEWED	APPROVED
A	25.6.22	ISSUED FOR DEVELOPMENT APPROVAL	MC	JL	-

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 jim@lonjac.net.au

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 Survey By - INSITE SJC
 Dated - 03.08.2021
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 Vertical datum - AHD (LAND BASED) LAT (MARINE - WHERE NOTED)
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Pacific Marine Base
 Ship Repair | Barging | Project Support

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SIGNATURE	<i>[Signature]</i>	
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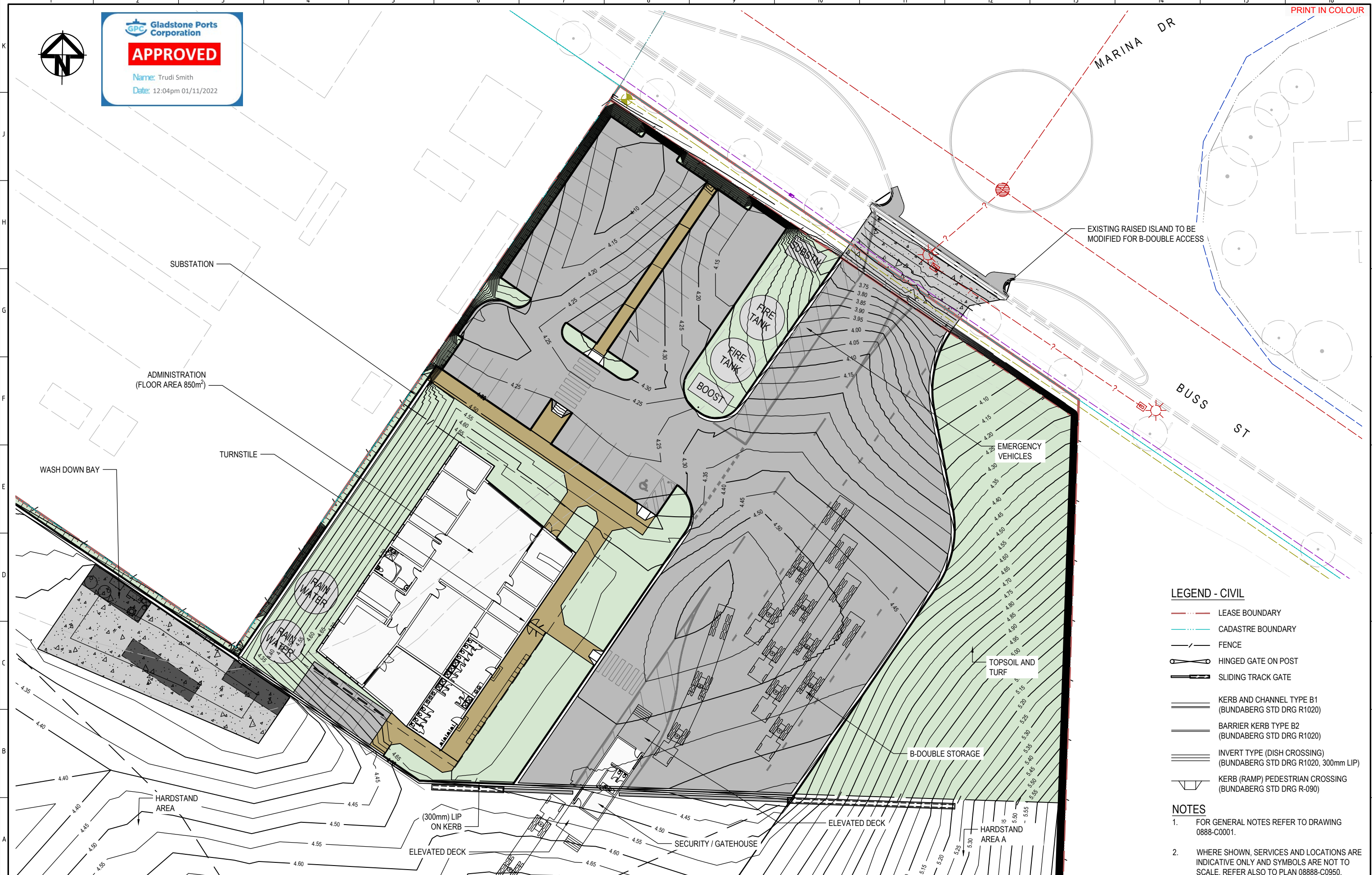
PROJECT		PACIFIC MARINE BASE BUNDABERG	
DRAWING TITLE		MARINE INDUSTRY SITE	
DRAWING TITLE		GRADING PLAN	
SCALE	AS SHOWN	DRG NO.	0888 - C0500
REV	A		



Gladstone Ports Corporation

APPROVED

Name: Trudi Smith
Date: 12:04pm 01/11/2022



- LEGEND - CIVIL**
- LEASE BOUNDARY
 - CADASTRE BOUNDARY
 - FENCE
 - HINGED GATE ON POST
 - SLIDING TRACK GATE
 - KERB AND CHANNEL TYPE B1 (BUNDABERG STD DRG R1020)
 - BARRIER KERB TYPE B2 (BUNDABERG STD DRG R1020)
 - INVERT TYPE (DISH CROSSING) (BUNDABERG STD DRG R1020, 300mm LIP)
 - KERB (RAMP) PEDESTRIAN CROSSING (BUNDABERG STD DRG R-090)
- NOTES**
- FOR GENERAL NOTES REFER TO DRAWING 0888-C0001.
 - WHERE SHOWN, SERVICES AND LOCATIONS ARE INDICATIVE ONLY AND SYMBOLS ARE NOT TO SCALE. REFER ALSO TO PLAN 08888-C0950.

REV	DATE	DESCRIPTION	BY	REVIEWED	APPROVED
A	25.6.22	ISSUED FOR DEVELOPMENT APPROVAL	MC	JL	-

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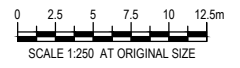
Survey By - INSITE SJC
Dated - 03.08.2021
Horizontal datum - MGA 94 ZONE 56
PM 3853
Vertical datum - AHD (LAND BASED)
LAT (MARINE - WHERE NOTED)

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BUNDABERG
Pacific Marine Base
Ship Repair | Barging | Project Support

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DES CHK	-	-
DRAWN	M.COLLINGS	MAY 2022
DRG CHK	J.LAWLEY	JUN 2022
REGISTERED PROFESSIONAL	J.LAWLEY	
REGISTRATION	LONJAC PTY LTD	
SIGNATURE		
No.	22281	
Date.	29.6.2022	



PROJECT
PACIFIC MARINE BASE BUNDABERG
MARINE INDUSTRY SITE

DRAWING TITLE
GRADING PLAN
SITE FACILITIES

SCALE AS SHOWN

DRG NO. **0888 - C0510**

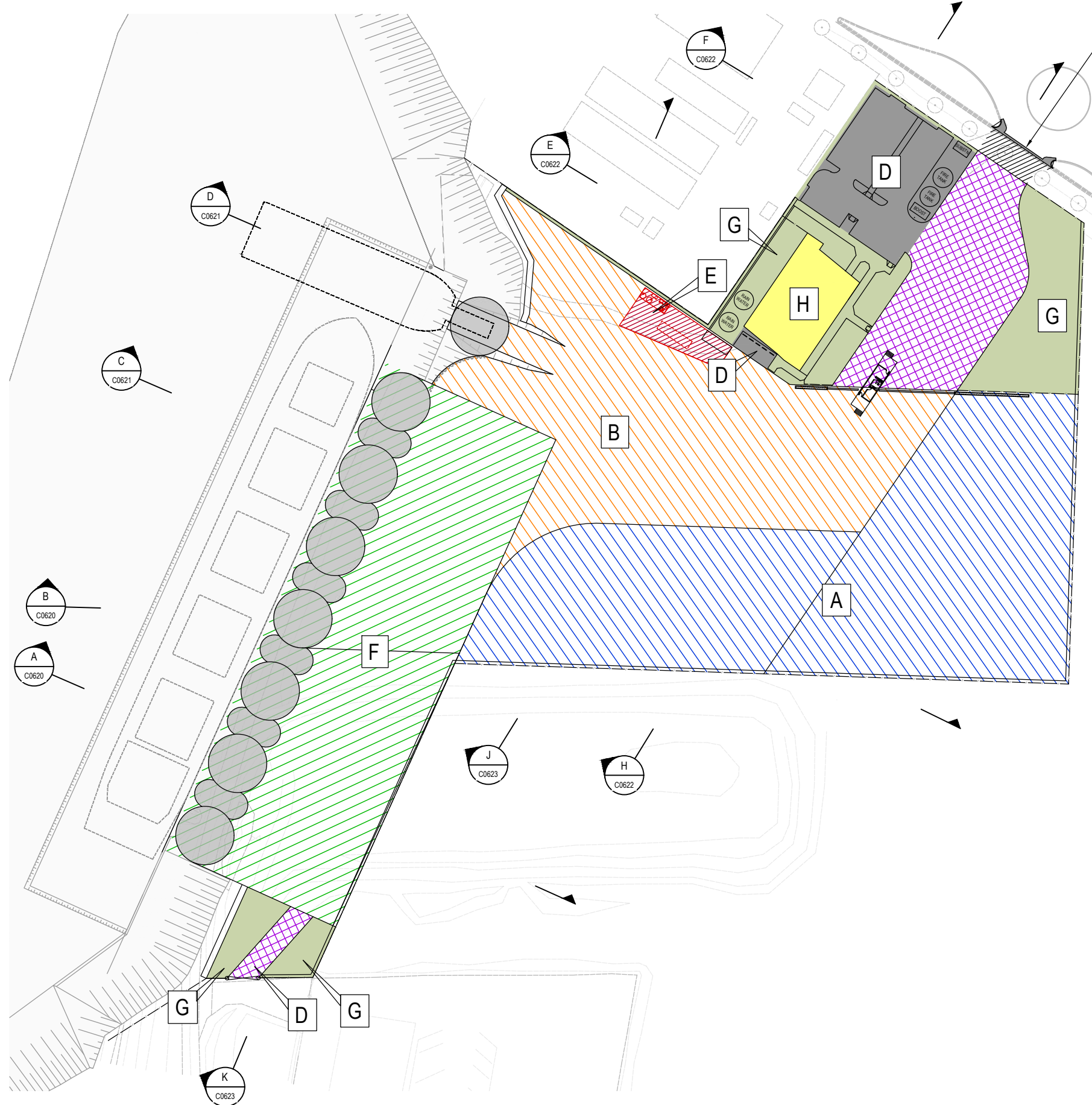
REV **A**

GPC Gladstone Ports Corporation

APPROVED

Name: Trudi Smith
Date: 12:04pm 01/11/2022

INDUSTRIAL VEHICLE CROSSING AND KERBING TO BUNDABERG REGIONAL COUNCIL STANDARD DRAWINGS R1011 AND R1020



LEGEND:

TYPE	PAVEMENT MATERIAL	TRAFFIC DESIGN ESA's	ASSUMED CBR (%)
A HARDSTAND	50mm SURFACING LAYER - AC14H (A15E) 75mm BASE COURSE - AC20H (C600) 200mm UPPER SUB BASE TYPE 2.1	CRANE OPERATIONS	5
	300mm LOWER SUB BASE TO 70% CBR FILL		
	SUBGRADE IMPROVEMENT 800mm RECOMPACTED UNCONTROLLED FILL WITH SYNTHETIC FABRIC REINFORCEMENT		
	[E.W.]		
B TRANSPORT AREA	50mm SURFACING LAYER - AC14H (A15E) 75mm BASE COURSE - AC20H (C600) 100mm UPPER SUB BASE TYPE 2.1	50,000 B-DOUBLBES AND CRANE OPERATIONS	5
	400mm LOWER SUB BASE TO 70% CBR FILL		
	SUBGRADE IMPROVEMENT 800mm RECOMPACTED UNCONTROLLED FILL WITH SYNTHETIC FABRIC REINFORCEMENT		
C ACCESS ROAD	50mm SURFACING LAYER - AC14H (A15E) 75mm BASE COURSE - AC20H (C600) 150mm UPPER SUBBASE COURSE TYPE 2.1 UNBOUND GRANULAR	50,000 B-DOUBLBES ONLY	5
	SUBGRADE IMPROVEMENT 800mm RECOMPACTED UNCONTROLLED FILL WITH SYNTHETIC FABRIC REINFORCEMENT		
	[E.W.]		
D PASSENGER CARPARKS	35mm SURFACING LAYER - AC10M (A15E) 130mm BASE COURSE TYPE 2.1 UNBOUND GRANULAR 150mm UPPER SUBBASE COURSE TYPE 2.3 UNBOUND GRANULAR	10,000	5
	SUBGRADE IMPROVEMENT 500mm RECOMPACT EXISTING UNCONTROLLED FILL		
	[E.W.]		
E VESSEL WASH BAY (HIGH FREQUENCY)	400mm SLAB INTERIOR - PLAIN JOINTED CONCRETE PAVEMENT (N50)	40t CONTAINER 1040 C/YEAR	5
	600mm SLAB EDGE - PLAIN JOINTED CONCRETE PAVEMENT (N50)		
	SUBGRADE IMPROVEMENT 500mm RECOMPACT EXISTING UNCONTROLLED FILL		
F (WHARF)	WHARF DECK STRIPPED SURFACE RL 4.5 FINISHED LEVEL RL 6.0 (NOMINAL 1500mm REFER ALSO TO DRAWING 0888-K0127)	NA	NA
G (GREEN AREAS)	REFER LANDSCAPING PLAN (NOMINAL 100mm ALLOWANCE HAS BEEN MADE FOR EARTHWORKS)	NA	NA
H (BUILDING)	BUILDING SLAB (NOMINAL 200mm ALLOWANCE HAS BEEN MADE FOR EARTHWORKS)	NA	NA

[E.W.] LEVEL ADOPTED FOR FINISHED CUT / FILL EARTHWORKS ON SHEET C0400

PLAN
SCALE 1:500

A	25.6.22	ISSUED FOR DEVELOPMENT APPROVAL	MC	JL	-
REV	DATE	DESCRIPTION	BY	REVIEWED	APPROVED

CONSULTANT LOGO

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SURVEY / DESIGN REFERENCES

Survey By - INSITE SJC
Dated - 03.08.2021
Horizontal datum - MGA 94 ZONE 56
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LAT (MARINE - WHERE NOTED)

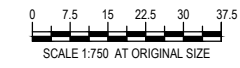
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CLIENT

BUNDABERG

Pacific Marine Base
Ship Repair | Barging | Project Support

DESIGNED BY	J.LAWLEY	MAY 2022
DES CHK	-	-
DRAWN	M.COLLINGS	MAY 2022
DRG CHK	J.LAWLEY	JUN 2022
REGISTERED PROFESSIONAL	J.LAWLEY	
REGISTRATION	LONJAC PTY LTD	
SIGNATURE	<i>[Signature]</i>	
No.	22281	
Date.	29.6.2022	



PROJECT
PACIFIC MARINE BASE BUNDABERG
MARINE INDUSTRY SITE

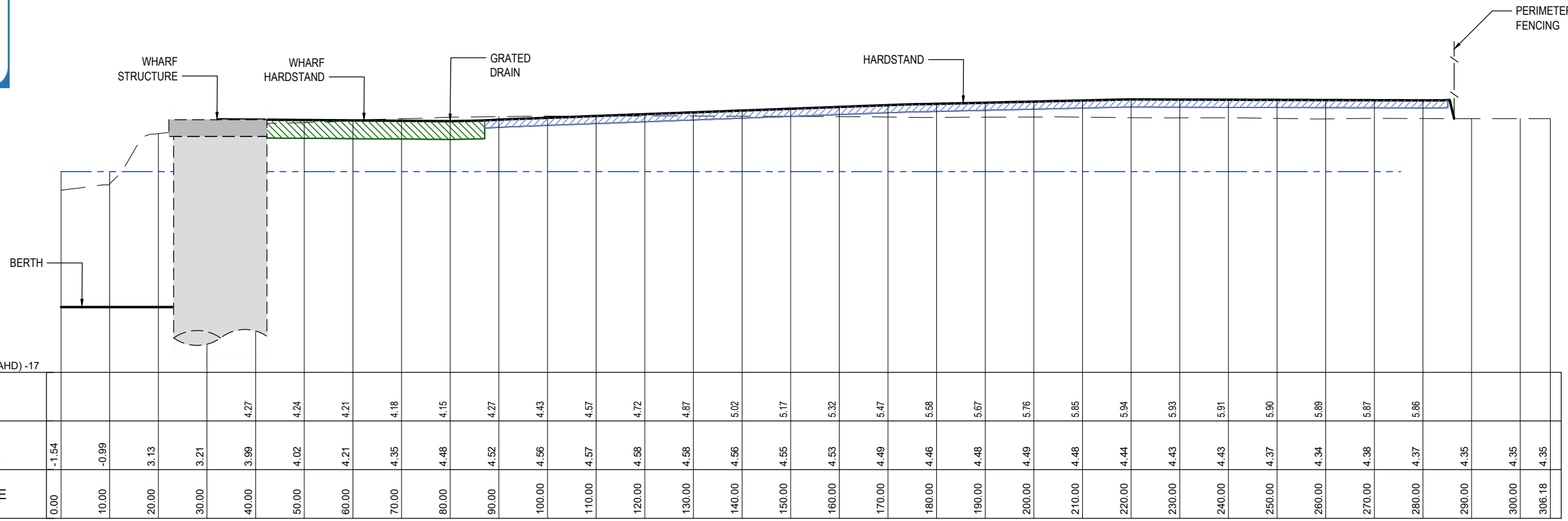
DRAWING TITLE
PAVEMENT PLAN

SCALE AS SHOWN

DRG NO. **0888 - C0600**

REV **A**

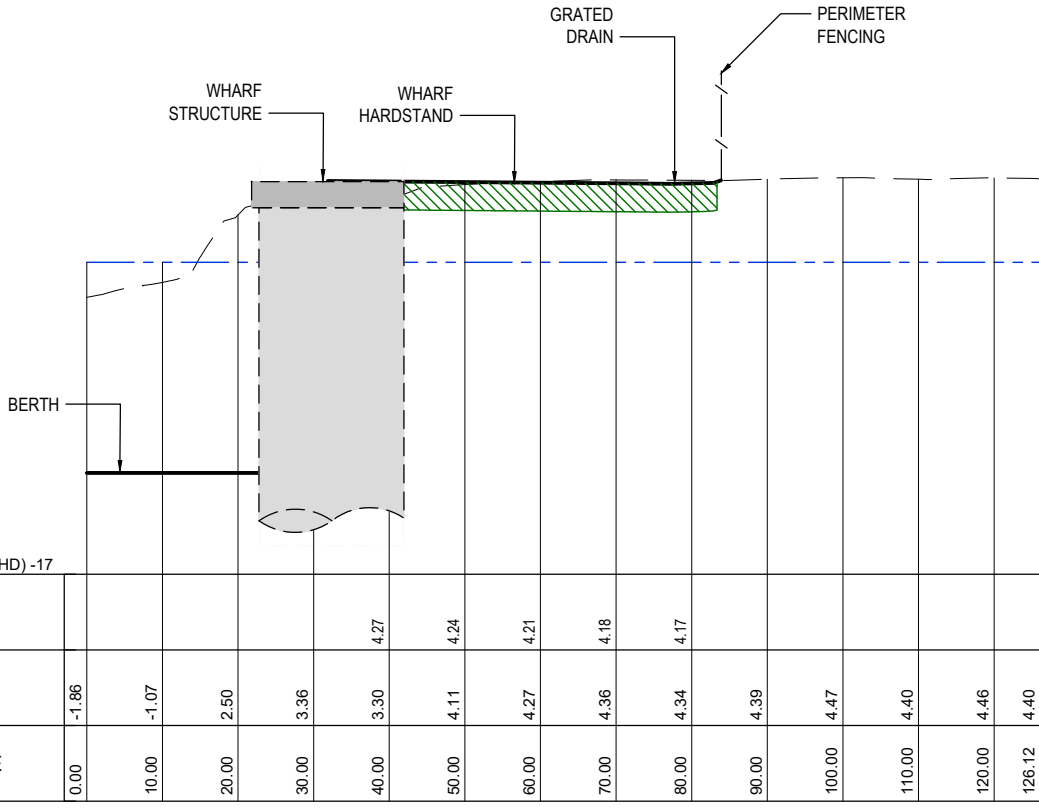
GPC Gladstone Ports Corporation
APPROVED
 Name: Trudi Smith
 Date: 12:04pm 01/11/2022



RADIUS DATUM R.L. (AHD) -17

DESIGN FSL	EXISTING SURFACE	CHAINAGE
	-1.54	0.00
	-0.99	10.00
	3.13	20.00
	3.21	30.00
	3.99	40.00
	4.02	50.00
	4.21	60.00
	4.35	70.00
	4.48	80.00
	4.52	90.00
	4.56	100.00
	4.57	110.00
	4.58	120.00
	4.58	130.00
	4.56	140.00
	4.55	150.00
	4.53	160.00
	4.49	170.00
	4.46	180.00
	4.48	190.00
	4.49	200.00
	4.48	210.00
	4.44	220.00
	4.43	230.00
	4.43	240.00
	4.37	250.00
	4.34	260.00
	4.38	270.00
	4.37	280.00
	4.35	290.00
	4.35	300.00
	4.35	306.18

SECTION B
 SCALE 1:500H 1:200V



RADIUS DATUM R.L. (AHD) -17

DESIGN FSL	EXISTING SURFACE	CHAINAGE
	-1.86	0.00
	-1.07	10.00
	2.50	20.00
	3.36	30.00
	3.30	40.00
	4.11	50.00
	4.27	60.00
	4.36	70.00
	4.34	80.00
	4.39	90.00
	4.47	100.00
	4.40	110.00
	4.46	120.00
	4.40	126.12

SECTION A
 SCALE 1:500H 1:200V

- LEGEND:**
- TYPE A HARDSTAND
 - TYPE B TRANSPORT AREA
 - TYPE C ACCESS ROAD
 - TYPE D PASSENGER CARPARKS
 - TYPE E VESSEL WASH BAY (HIGH FREQUENCY)
 - TYPE F (WHARF)
 - TYPE G (GREEN AREAS)
 - TYPE H (BUILDING)

REV	DATE	DESCRIPTION	BY	REVIEWED	APPROVED
A	25.6.22	ISSUED FOR DEVELOPMENT APPROVAL	MC	JL	-

CONSULTANT LOGO

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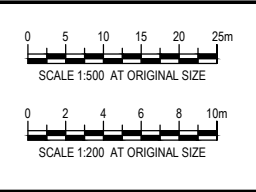
SURVEY / DESIGN REFERENCES
 Survey By - INSITE SJC
 Dated - 03.08.2021
 Horizontal datum - MGA 94 ZONE 56
 PM 3853
 Vertical datum - AHD (LAND BASED)
 LAT (MARINE - WHERE NOTED)

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DRG CHK	J.LAWLEY	JUN 2022
REGISTERED PROFESSIONAL	J.LAWLEY	
REGISTRATION	LONJAC PTY LTD	
SIGNATURE		
No.	22281	
Date	29.6.2022	



PROJECT
 PACIFIC MARINE BASE BUNDABERG
 MARINE INDUSTRY SITE

DRAWING TITLE
 SITE SECTIONS
 SHEET 1 OF 4

SCALE AS SHOWN
 DRG NO. 0888 - C0620
 REV A

APPROVED

Name: Trudi Smith
Date: 4:10pm 24/11/2022

WHARF STRUCTURE / RO-RO RAMP

HARDSTAND

HARDSTAND

PERIMETER FENCING

BERTH

RADIUS

DATUM R.L. (AHD) -17

DESIGN FSL	EXISTING SURFACE	CHAINAGE
	-1.92	0.00
	-1.38	10.00
	2.57	20.00
	2.85	30.00
	2.72	40.00
	3.25	50.00
	3.82	60.00
	3.98	70.00
	4.10	80.00
	4.15	90.00
	4.19	100.00
	4.22	110.00
	4.25	120.00
	4.36	130.00
	4.37	140.00
	4.35	150.00
	4.32	160.00
	4.30	170.00
	4.27	180.00
	4.25	190.00
	4.23	200.00
	4.19	210.00
	4.13	220.00
	4.08	230.00
	4.06	240.00
	4.04	250.00
	3.97	260.00
	4.00	270.00
	4.06	280.00
	4.08	283.28

SECTION

SCALE 1:500H 1:200V



WHARF STRUCTURE

WHARF HARDSTAND

GRADED DRAIN

HARDSTAND

PERIMETER FENCING

BERTH

RADIUS

DATUM R.L. (AHD) -17

DESIGN FSL	EXISTING SURFACE	CHAINAGE
	-1.67	0.00
	-1.10	10.00
	3.00	20.00
	2.79	30.00
	4.07	40.00
	4.22	50.00
	4.28	60.00
	4.31	70.00
	4.40	80.00
	4.46	90.00
	4.50	100.00
	4.54	110.00
	4.51	120.00
	4.51	130.00
	4.52	140.00
	4.51	150.00
	4.48	160.00
	4.46	170.00
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	4.50	190.00
	4.49	200.00
	4.47	210.00
	4.47	220.00
	4.49	230.00
	4.49	236.17

SECTION

SCALE 1:500H 1:200V



LEGEND:

- TYPE A HARDSTAND
- TYPE B TRANSPORT AREA
- TYPE C ACCESS ROAD
- TYPE D PASSENGER CARPARKS
- TYPE E VESSEL WASH BAY (HIGH FREQUENCY)
- TYPE F (WHARF)
- TYPE G (GREEN AREAS)
- TYPE H (BUILDING)

CONSULTANT LOGO



976 PINE CREEK ROAD,
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SURVEY / DESIGN REFERENCES

Survey By - INSITE SJC
Dated - 03.08.2021
Horizontal datum - MGA 94 ZONE 56
PM 3853
Vertical datum - AHD (LAND BASED)
LAT (MARINE - WHERE NOTED)
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CLIENT



DESIGNED BY J.LAWLEY MAY 2022

DES CHK -
DRAWN M.COLLINGS MAY 2022
DRG CHK J.LAWLEY JUN 2022
REGISTERED PROFESSIONAL J.LAWLEY
REGISTRATION LONJAC PTY LTD
SIGNATURE
No. 22281
Date. 29.6.2022



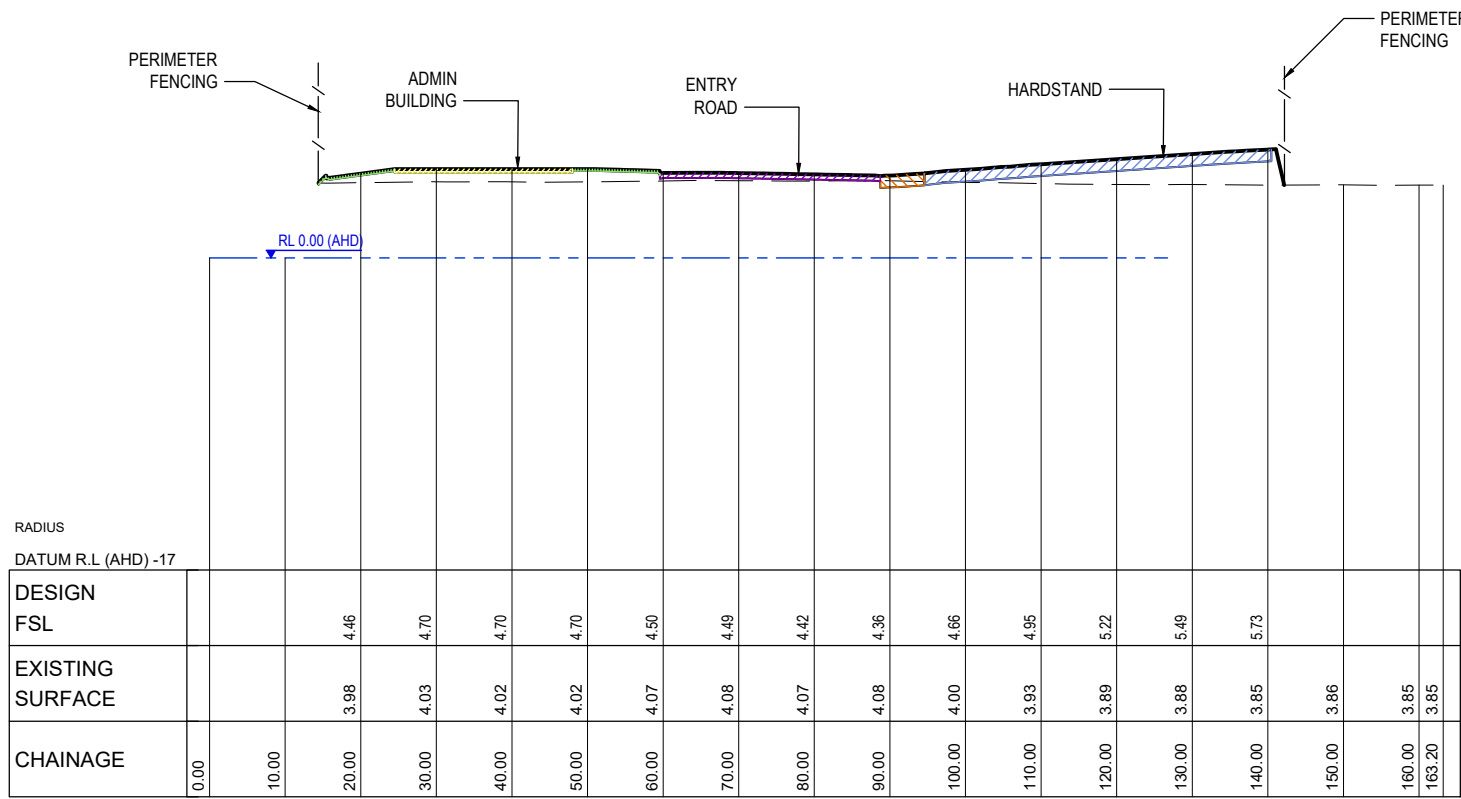
PROJECT
PACIFIC MARINE BASE BUNDABERG
MARINE INDUSTRY SITE

DRAWING TITLE
SITE SECTIONS
SHEET 2 OF 4

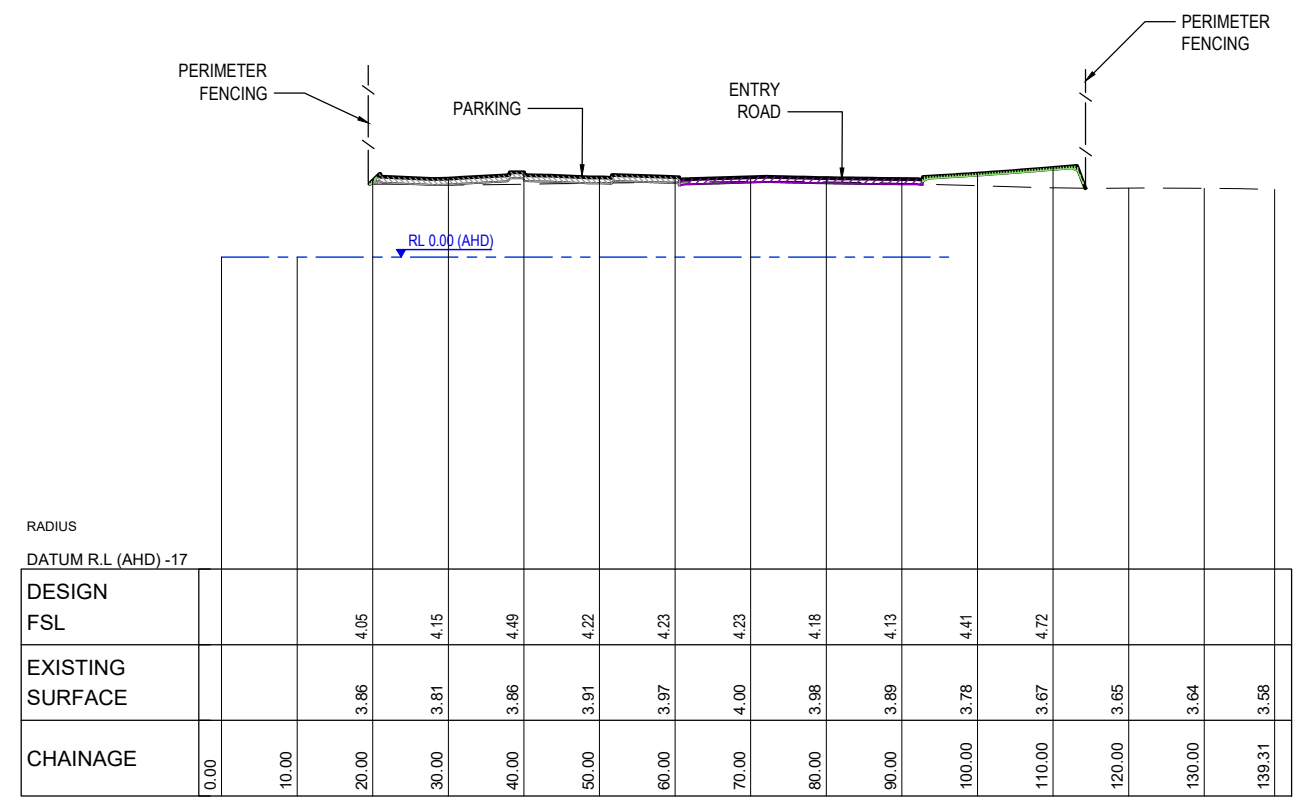
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DRG NO. 0888 - C0620

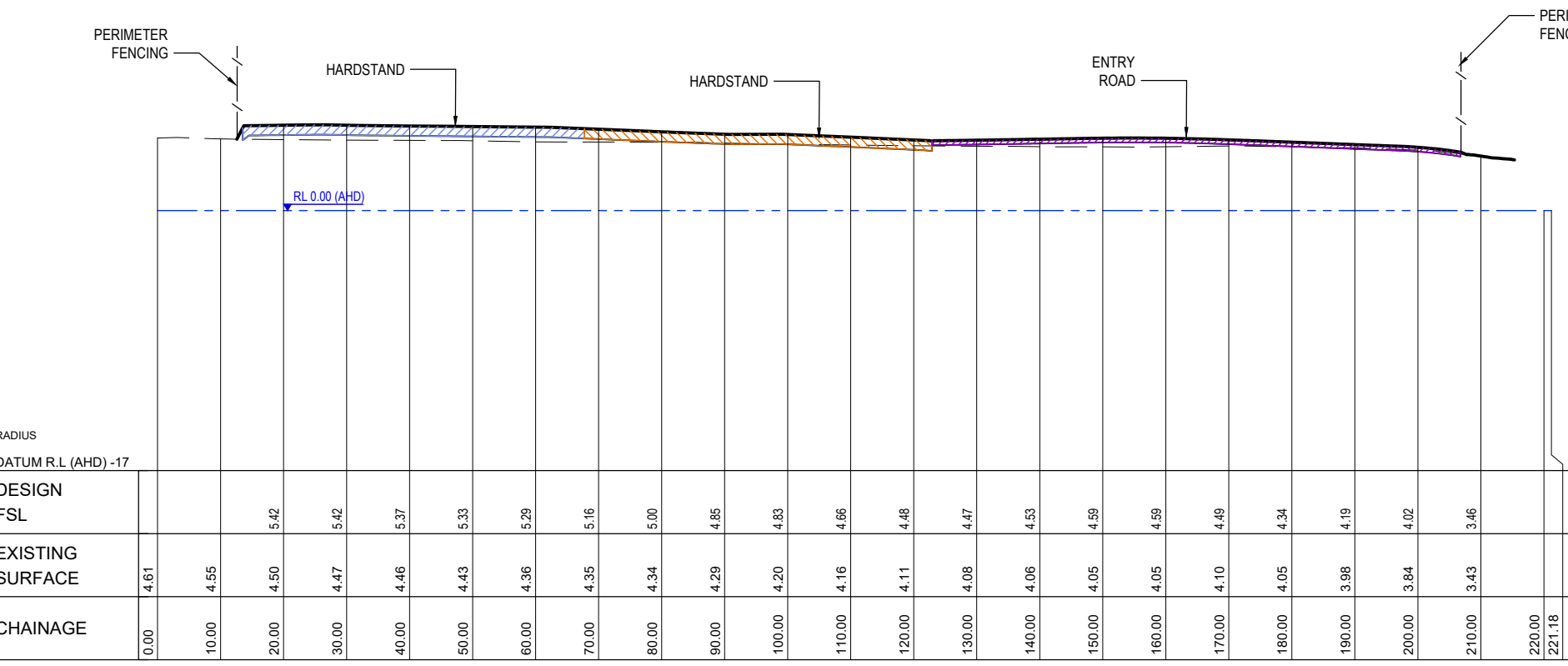
REV A



SECTION E
SCALE 1:500H 1:200V



SECTION F
SCALE 1:500H 1:200V



SECTION J
SCALE 1:500H 1:200V



- LEGEND:**
- TYPE A HARDSTAND
 - TYPE B TRANSPORT AREA
 - TYPE C ACCESS ROAD
 - TYPE D PASSENGER CARPARKS
 - TYPE E VESSEL WASH BAY (HIGH FREQUENCY)
 - TYPE F (WHARF)
 - TYPE G (GREEN AREAS)
 - TYPE H (BUILDING)

REV	DATE	DESCRIPTION	BY	REVIEWED	APPROVED
A	25.6.22	ISSUED FOR DEVELOPMENT APPROVAL	MC	JL	-

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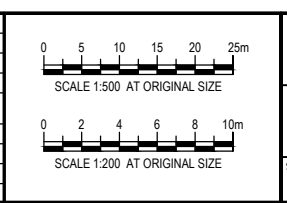
SURVEY / DESIGN REFERENCES
 Survey By - INSITE SJC
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CLIENT

Ship Repair | Barging | Project Support

DESIGNED BY	J.LAWLEY	MAY 2022
DES CHK	-	-
DRAWN	M.COLLINGS	MAY 2022
DRG CHK	J.LAWLEY	JUN 2022
REGISTERED PROFESSIONAL	J.LAWLEY	
REGISTRATION	LONJAC PTY LTD	
SIGNATURE		
No.	22281	
Date.	29.6.2022	



PROJECT
PACIFIC MARINE BASE BUNDABERG
MARINE INDUSTRY SITE

DRAWING TITLE
SITE SECTIONS
SHEET 3 OF 4

SCALE AS SHOWN

DRG NO. 0888 - C0620

REV A



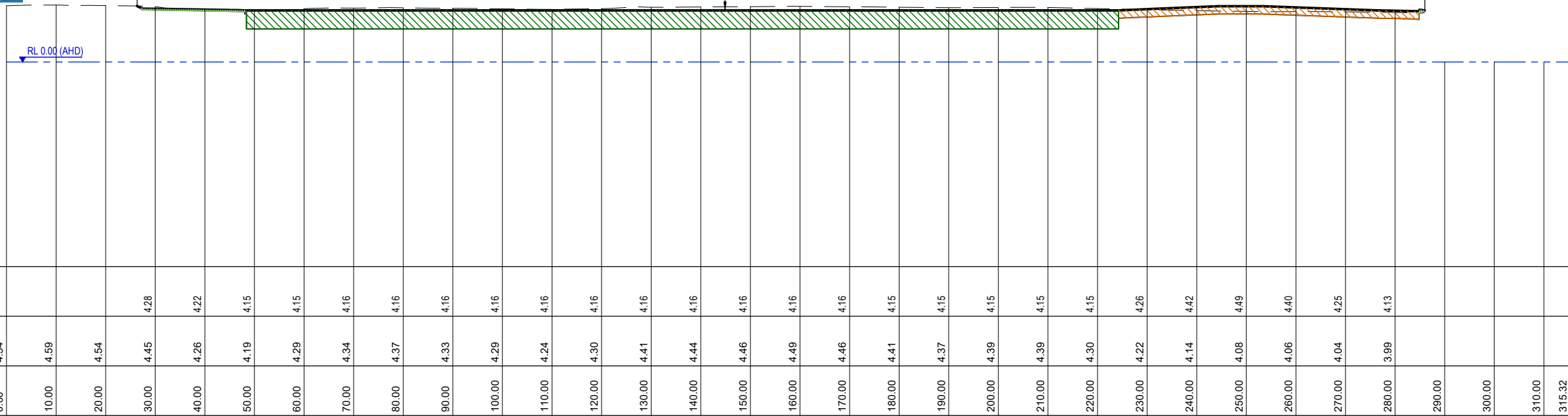
APPROVED

Name: Trudi Smith
Date: 4:10pm 24/11/2022

PERIMETER FENCING

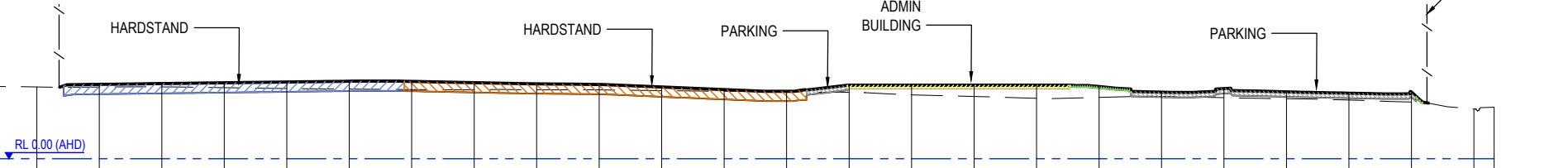
WHARF HARDSTAND

PERIMETER FENCING



SECTION

SCALE 1:500H 1:200V



SECTION

SCALE 1:500H 1:200V



LEGEND:

- TYPE A HARDSTAND
- TYPE B TRANSPORT AREA
- TYPE C ACCESS ROAD
- TYPE D PASSENGER CARPARKS
- TYPE E VESSEL WASH BAY (HIGH FREQUENCY)
- TYPE F (WHARF)
- TYPE G (GREEN AREAS)
- TYPE H (BUILDING)

REV	DATE	DESCRIPTION	BY	REVIEWED	APPROVED
A	25.6.22	ISSUED FOR DEVELOPMENT APPROVAL	MC	JL	-

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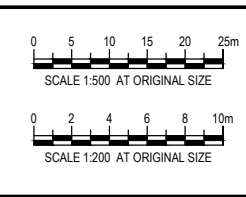
SURVEY / DESIGN REFERENCES
Survey By - INSITE SJC
Dated - 03.08.2021
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Ship Repair | Barging | Project Support

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REGISTERED PROFESSIONAL	J.LAWLEY	
SIGNATURE	LONJAC PTY LTD	
No.	22281	
Date.	29.6.2022	



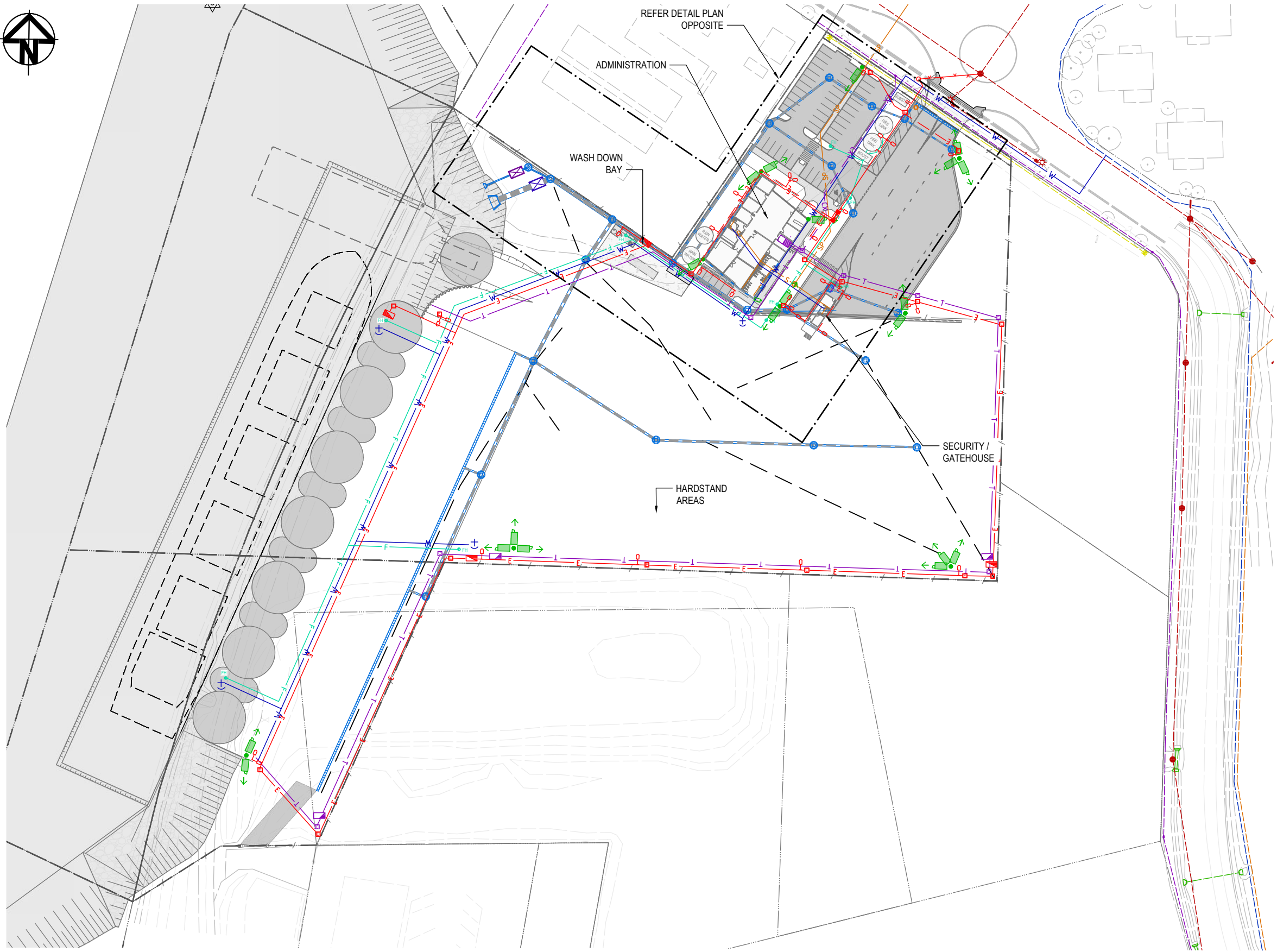
PROJECT
PACIFIC MARINE BASE BUNDABERG
MARINE INDUSTRY SITE

DRAWING TITLE
SITE SECTIONS
SHEET 4 OF 4

SCALE AS SHOWN

DRG NO. 0888 - C0620

REV A



LEGEND

- PROPOSED WATER MAIN
- SEWER AND PUMP STATION
- PROPOSED SEWER RISING MAIN
- PROPOSED FIRE LINE AND HYDRANT
- SUBSTATION
- SERVICE PILLAR OR SWITCHBOARD
- MAIN SWITCHBOARD
- ELECTRICAL CONDUIT
- ELECTRICAL MAIN (INCOMING)
- ELECTRICAL (LV) LUMINAIRE
- LUMINAIRE (POST OR BLD)
- CONTROL PANEL
- MDF
- COMMUNICATION PIT
- CARRIER CONDUIT
- DISTRIBUTION CONDUIT
- CCTV CAMERA
- IN LINE GPT
- FILTER
- STORMWATER PIT
- STORMWATER PIPE

LEGEND (EXISTING)

- LEASE BOUNDARY
- CADASTRE BOUNDARY
- ELECTRICAL
- COMMUNICATIONS
- SEWER
- SEAWATER

- NOTES**
1. FOR GENERAL NOTES REFER TO DRAWING 0888-C0001.
 2. WHERE SHOWN, SERVICES AND LOCATIONS ARE INDICATIVE ONLY AND SYMBOLS ARE NOT TO SCALE.

SITE PLAN
SCALE 1:750



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Dated - 03.08.2021
Horizontal datum - MGA 94 ZONE 56
PH 3853
Vertical datum - AHD (LAND BASED)
LAT (MARINE - WHERE NOTED)

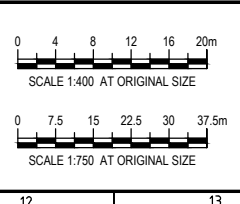
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CLIENT

BUNDABERG

Pacific Marine Base
Ship Repair | Barging | Project Support

DESIGNED BY	J.LAWLEY	MAY 2022
DES CHK	-	-
DRAWN	M.COLLAGS	MAY 2022
DRG CHK	J.LAWLEY	JUN 2022
REGISTERED PROFESSIONAL	J.LAWLEY	
REGISTRATION	LONJAC PTY LTD	
SIGNATURE		
No.	22281	
Date.	29.6.2022	



PROJECT		PACIFIC MARINE BASE BUNDABERG	
DRAWING TITLE		MARINE INDUSTRY SITE	
SCALE		AS SHOWN	
DRG NO.		0888 - C0950	
REV	A		

LEGEND

- PROPOSED WATER MAIN
- SEWER
- PROPOSED SEWER RISING MAIN
- PROPOSED FIRE LINE AND HYDRANT
- SUBSTATION
- SERVICE PILLAR OR SWITCHBOARD
- MAIN SWITCHBOARD
- ELECTRICAL CONDUIT
- ELECTRICAL MAIN (INCOMING)
- ELECTRICAL (LV) LUMINAIRE
- LUMINAIRE (POST OR BLD)
- CONTROL PANEL
- MDF
- COMMUNICATION PIT
- CARRIER CONDUIT
- DISTRIBUTION CONDUIT
- CCTV CAMERA
- IN LINE GPT
- FILTER
- STORMWATER PIT
- STORMWATER PIPE

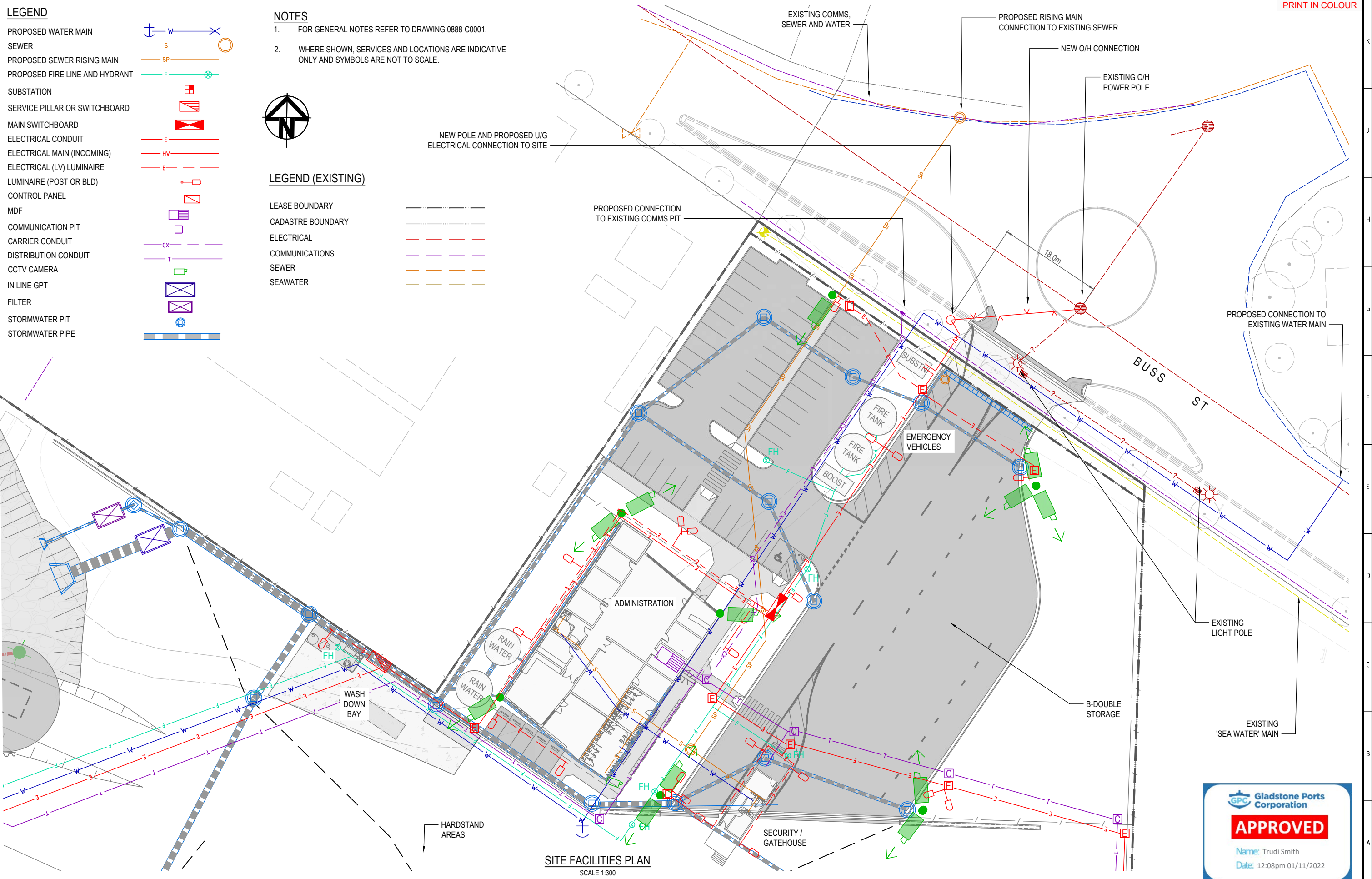
NOTES

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- WHERE SHOWN, SERVICES AND LOCATIONS ARE INDICATIVE ONLY AND SYMBOLS ARE NOT TO SCALE.



LEGEND (EXISTING)

- LEASE BOUNDARY
- CADASTRE BOUNDARY
- ELECTRICAL
- COMMUNICATIONS
- SEWER
- SEAWATER



SITE FACILITIES PLAN
SCALE 1:300

GPC Gladstone Ports Corporation

APPROVED

Name: Trudi Smith
Date: 12:08pm 01/11/2022

REV	DATE	DESCRIPTION	BY	REVIEWED	APPROVED
A	25.6.22	ISSUED FOR DEVELOPMENT APPROVAL	MC	JL	-

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SURVEY / DESIGN REFERENCES

Survey By - INSITE SJC
Dated - 03.08.2021
Horizontal datum - MGA 94 ZONE 56
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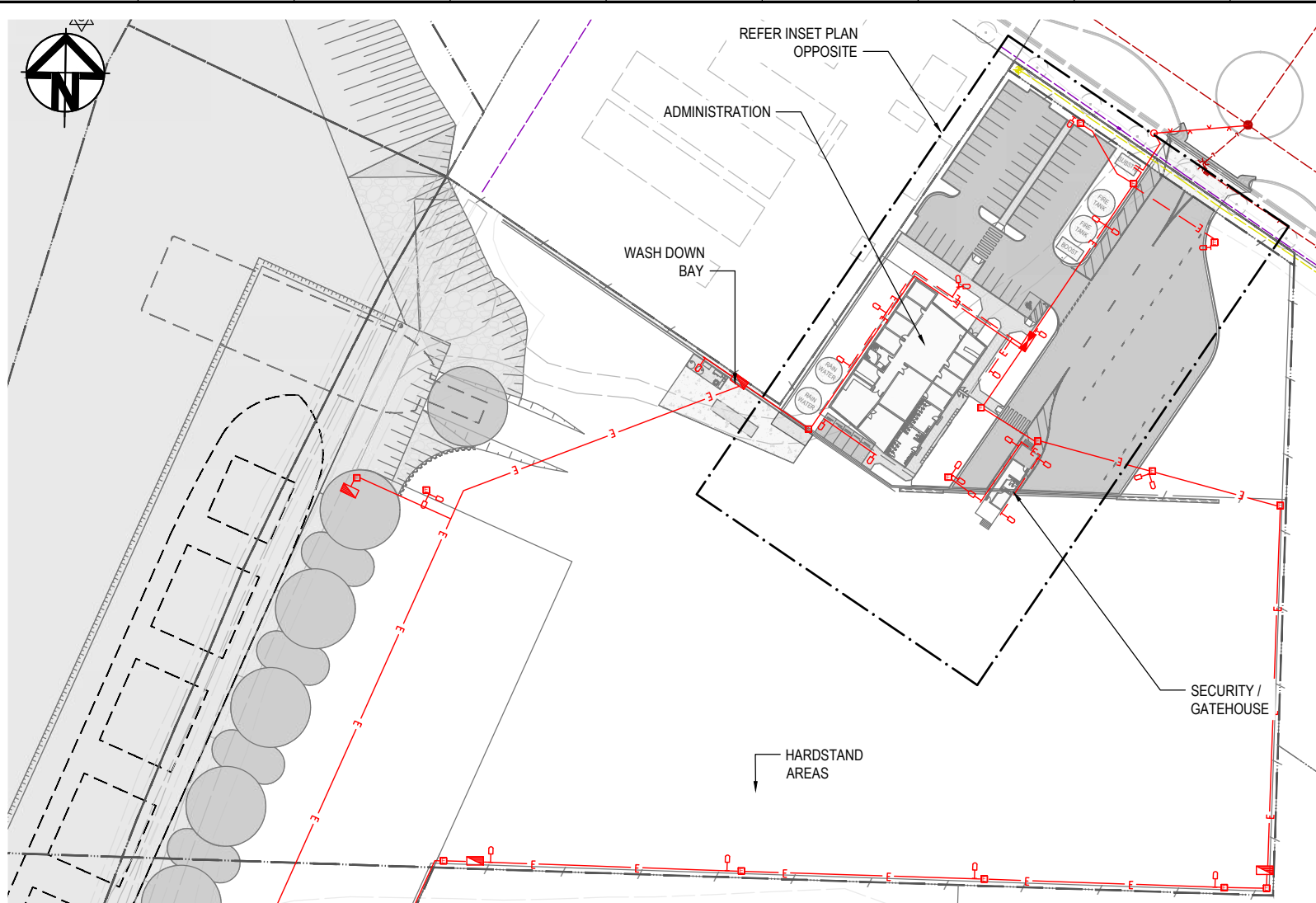
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BUNDABERG
Pacific Marine Base
Ship Repair | Barging | Project Support

DESIGNED BY	J.LAWLEY	MAY 2022
DES CHK	-	-
DRAWN	M.COLLINGS	MAY 2022
DRG CHK	J.LAWLEY	JUN 2022
REGISTERED PROFESSIONAL	J.LAWLEY	
REGISTRATION	LONJAC PTY LTD	
SIGNATURE		
No.	22281	
Date.	29.6.2022	



PROJECT	PACIFIC MARINE BASE BUNDABERG MARINE INDUSTRY SITE	
DRAWING TITLE	MASTER SERVICES SITE FACILITIES PLAN	
SCALE	AS SHOWN	DRG NO. 0888 - C0960
REV	A	



SITE PLAN
SCALE 1:750

LEGEND (EXISTING)

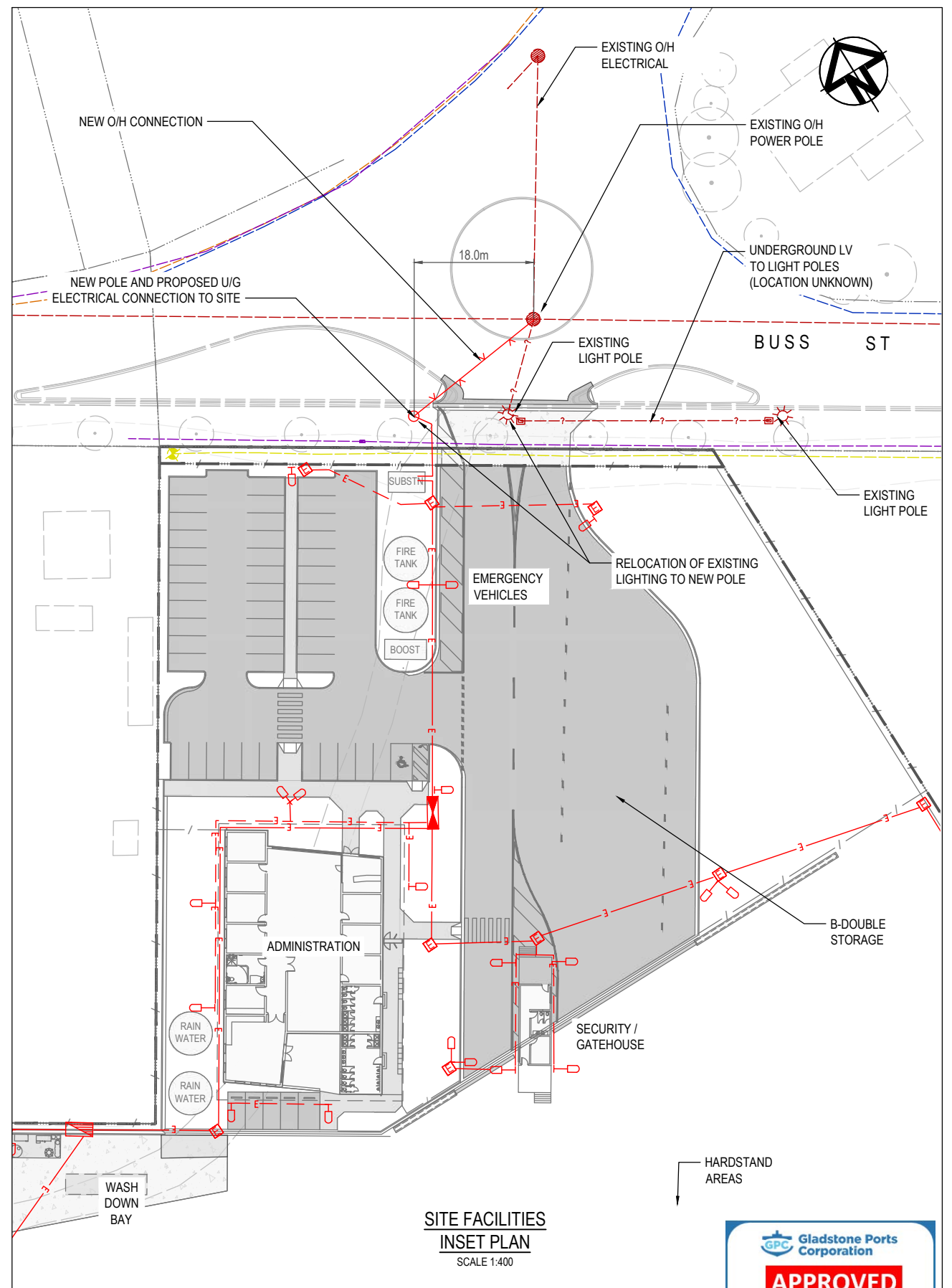
- LEASE BOUNDARY
- CADASTRE BOUNDARY
- ELECTRICAL
- COMMUNICATIONS
- SEWER
- SEAWATER

LEGEND

- SUBSTATION
- SERVICE PILLAR OR SWITCHBOARD
- MAIN SWITCHBOARD
- ELECTRICAL CONDUIT
- ELECTRICAL MAIN (INCOMING)
- ELECTRICAL (LV) LUMINAIRE
- LUMINAIRE (POST OR BLD)
- CONTROL PANEL

NOTES

1. FOR GENERAL NOTES REFER TO DRAWING 0888-C0001.
2. WHERE SHOWN, SERVICES AND LOCATIONS ARE INDICATIVE ONLY AND SYMBOLS ARE NOT TO SCALE.



**SITE FACILITIES
INSET PLAN**
SCALE 1:400



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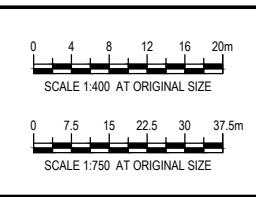
SURVEY / DESIGN REFERENCES
 Survey By - INSITE SJC
 Dated - 03.08.2021
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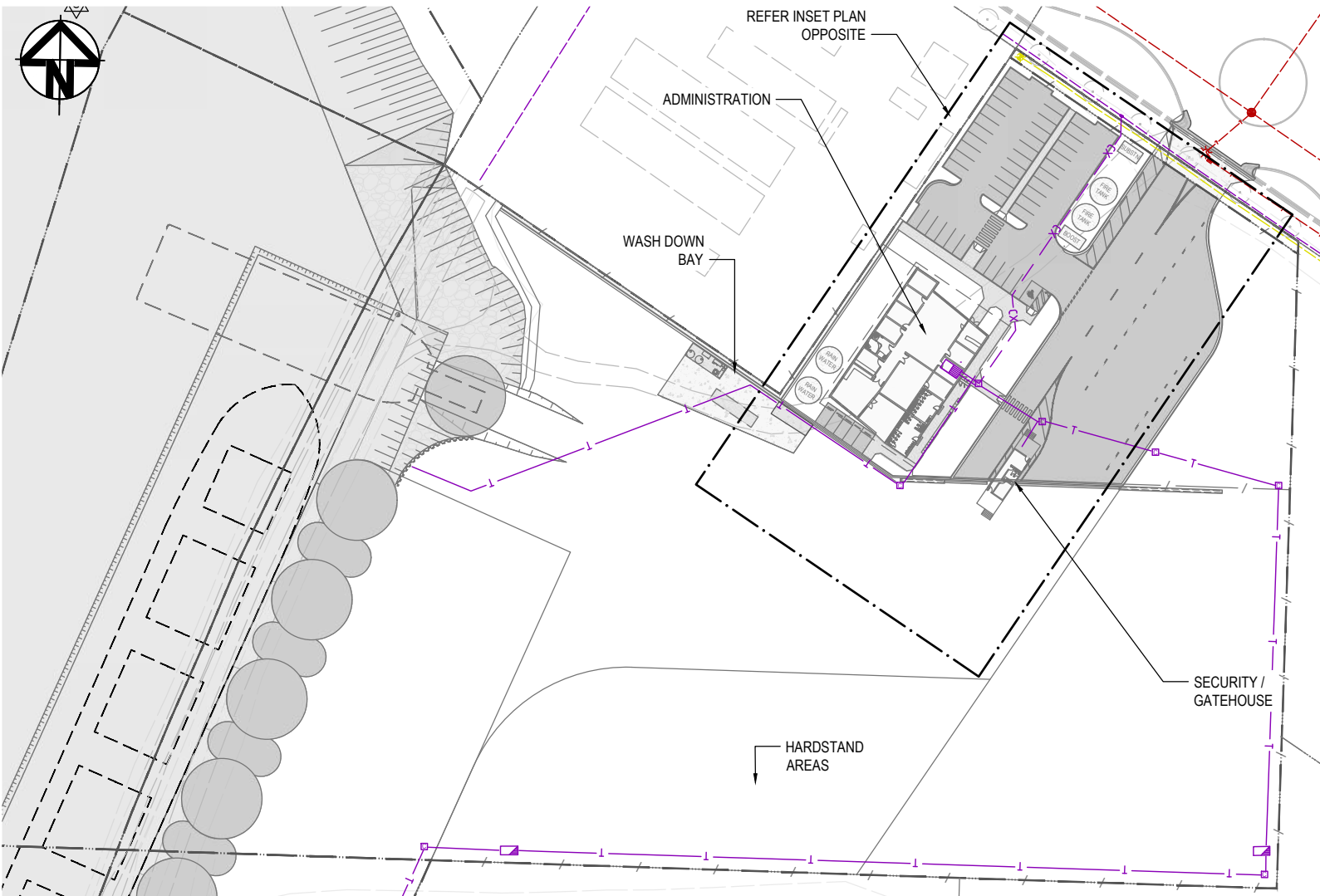
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Pacific Marine Base
Ship Repair | Barging | Project Support

DESIGNED BY	J.LAWLEY	MAY 2022
DES CHK	-	-
DRAWN	M.COLLINGS	MAY 2022
DRG CHK	J.LAWLEY	JUN 2022
REGISTERED PROFESSIONAL	J.LAWLEY	
REGISTRATION	LONJAC PTY LTD	
SIGNATURE		
No.	22281	
Date.	29.6.2022	



PROJECT	PACIFIC MARINE BASE BUNDBERG MARINE INDUSTRY SITE	
DRAWING TITLE	SERVICES ELECTRICAL SITE RETICULATION PLAN	
SCALE	AS SHOWN	DRG NO. 0888 - E0100
REV	A	

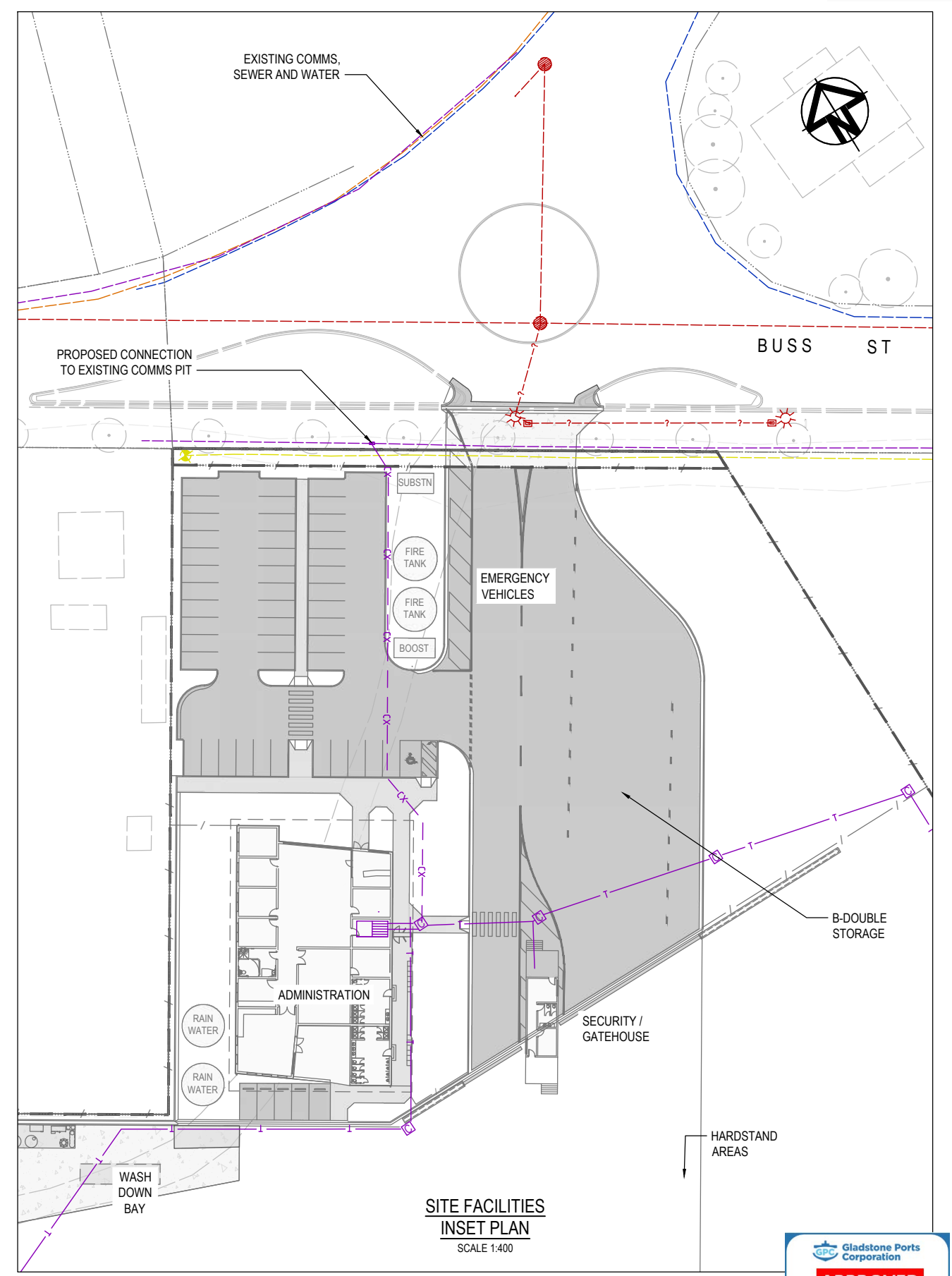


SITE PLAN
SCALE 1:750

LEGEND (EXISTING)

- LEASE BOUNDARY
- CADASTRE BOUNDARY
- ELECTRICAL
- COMMUNICATIONS
- SEWER
- SEAWATER
- LEGEND
- DF
- MDF
- COMMUNICATION PIT
- CARRIER CONDUIT
- DISTRIBUTION CONDUIT

- NOTES**
- FOR GENERAL NOTES REFER TO DRAWING 0888-C0001.
 - WHERE SHOWN, SERVICES AND LOCATIONS ARE INDICATIVE ONLY AND SYMBOLS ARE NOT TO SCALE.



SITE FACILITIES
INSET PLAN
SCALE 1:400



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SURVEY / DESIGN REFERENCES

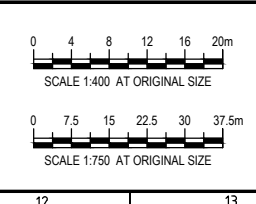
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Dated - 03.08.2021
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Pacific Marine Base
Ship Repair | Barging | Project Support

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DES CHK	-	-
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REGISTERED PROFESSIONAL	J.LAWLEY	
REGISTRATION	LONJAC PTY LTD	
SIGNATURE		
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Date.	29.6.2022	



PROJECT
PACIFIC MARINE BASE BUNDBERG
MARINE INDUSTRY SITE

DRAWING TITLE
SERVICE
COMMUNICATIONS SITE RETICULATION LAYOUT PLAN

SCALE AS SHOWN

DRG NO. 0888 - E0300

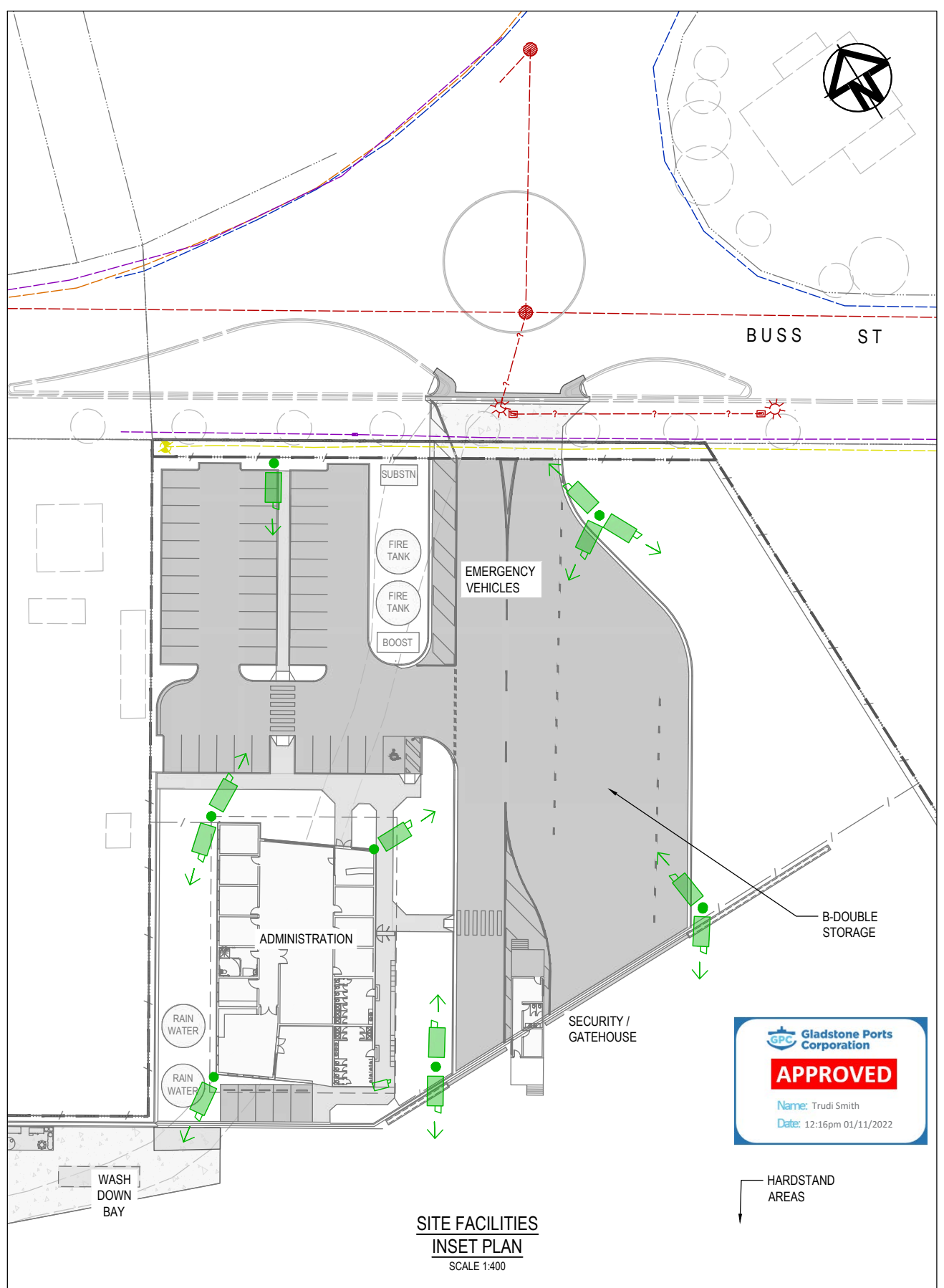
REV A



SITE PLAN
SCALE 1:750

- LEGEND (EXISTING)**
- LEASE BOUNDARY
 - CADASTRE BOUNDARY
 - ELECTRICAL
 - COMMUNICATIONS
 - SEWER
 - SEAWATER
- LEGEND**
- CCTV CAMERA
 - POLE

- NOTES**
- FOR GENERAL NOTES REFER TO DRAWING 0888-C0001.
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**SITE FACILITIES
INSET PLAN**
SCALE 1:400



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A	25.6.22	ISSUED FOR DEVELOPMENT APPROVAL	MC	JL	-

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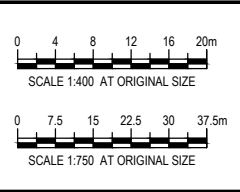
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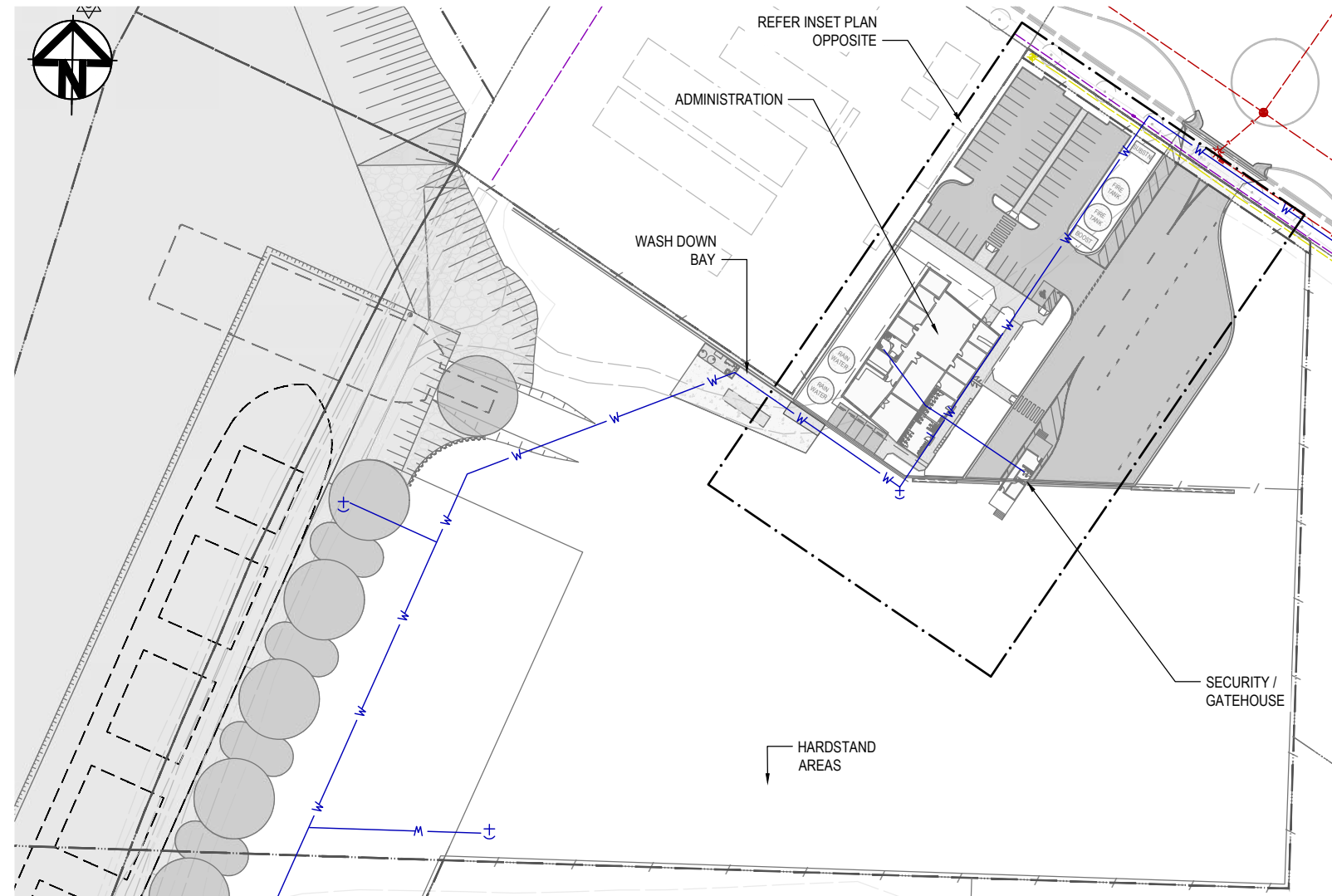
CLIENT

BUNDABERG
Pacific Marine Base
Ship Repair | Barging | Project Support

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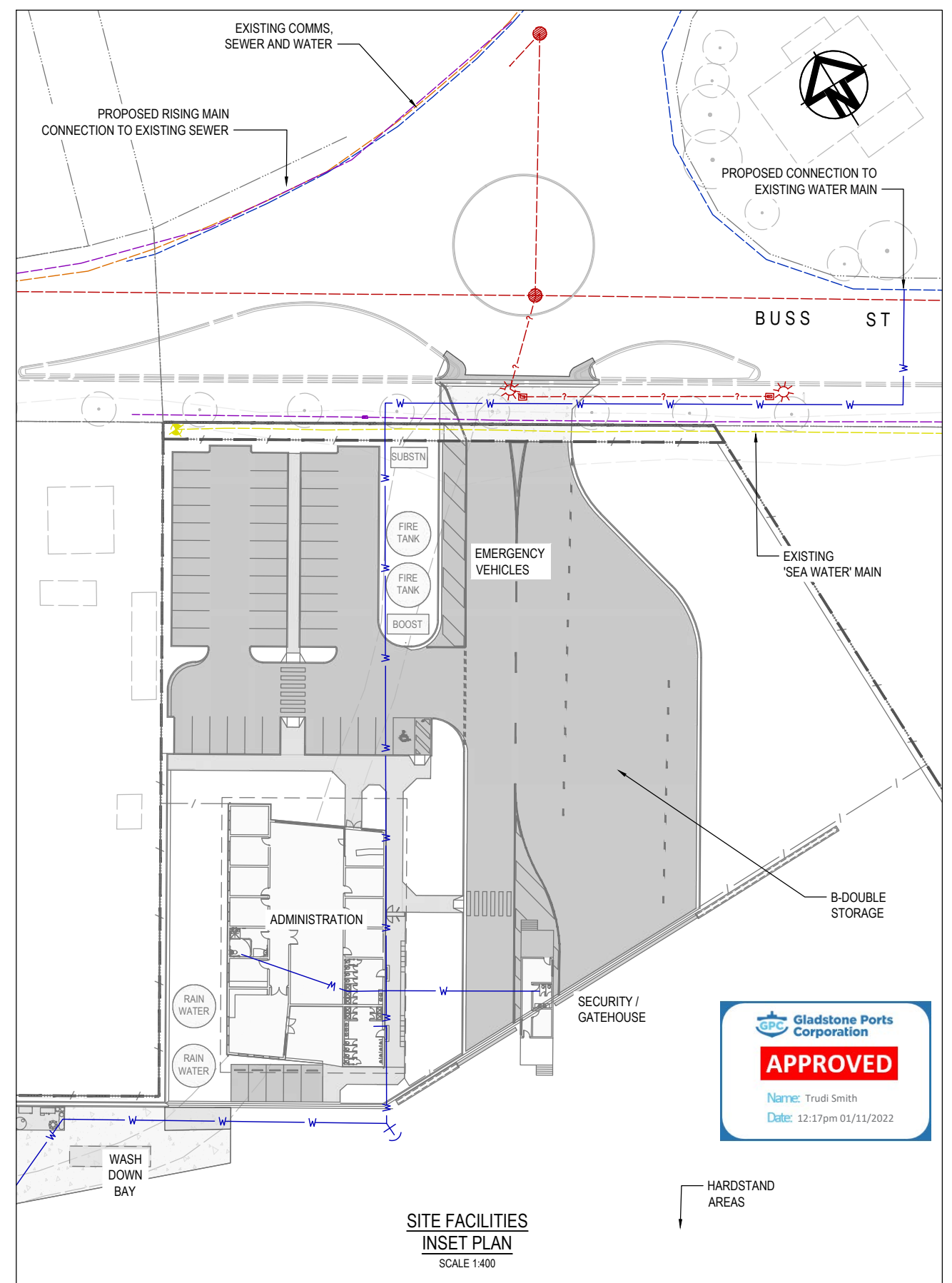
PROJECT		DRAWING TITLE	
PACIFIC MARINE BASE BUNDABERG MARINE INDUSTRY SITE		SERVICES SITE CCTV LAYOUT PLAN	
SCALE	AS SHOWN	DRG NO.	0888 - E0500
		REV	A



SITE PLAN
SCALE 1:750

- LEGEND (EXISTING)**
- LEASE BOUNDARY
 - CADASTRE BOUNDARY
 - ELECTRICAL
 - COMMUNICATIONS
 - SEWER
 - SEAWATER
- LEGEND**
- PROPOSED WATER MAIN
 - PROPOSED WATER CONNECTION POINT

- NOTES**
- FOR GENERAL NOTES REFER TO DRAWING 0888-C0001.
 - WHERE SHOWN, SERVICES AND LOCATIONS ARE INDICATIVE ONLY AND SYMBOLS ARE NOT TO SCALE.



SITE FACILITIES INSET PLAN
SCALE 1:400



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A	25.6.22	ISSUED FOR DEVELOPMENT APPROVAL	MC	JL	-

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SURVEY / DESIGN REFERENCES

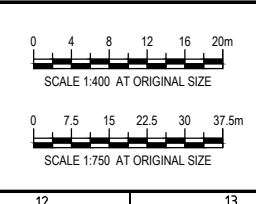
Survey By - INSITE SJC
Dated - 03.08.2021
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SIGNATURE		
No.	22281	
Date.	29.6.2022	



PROJECT

PACIFIC MARINE BASE BUNDABERG
MARINE INDUSTRY SITE

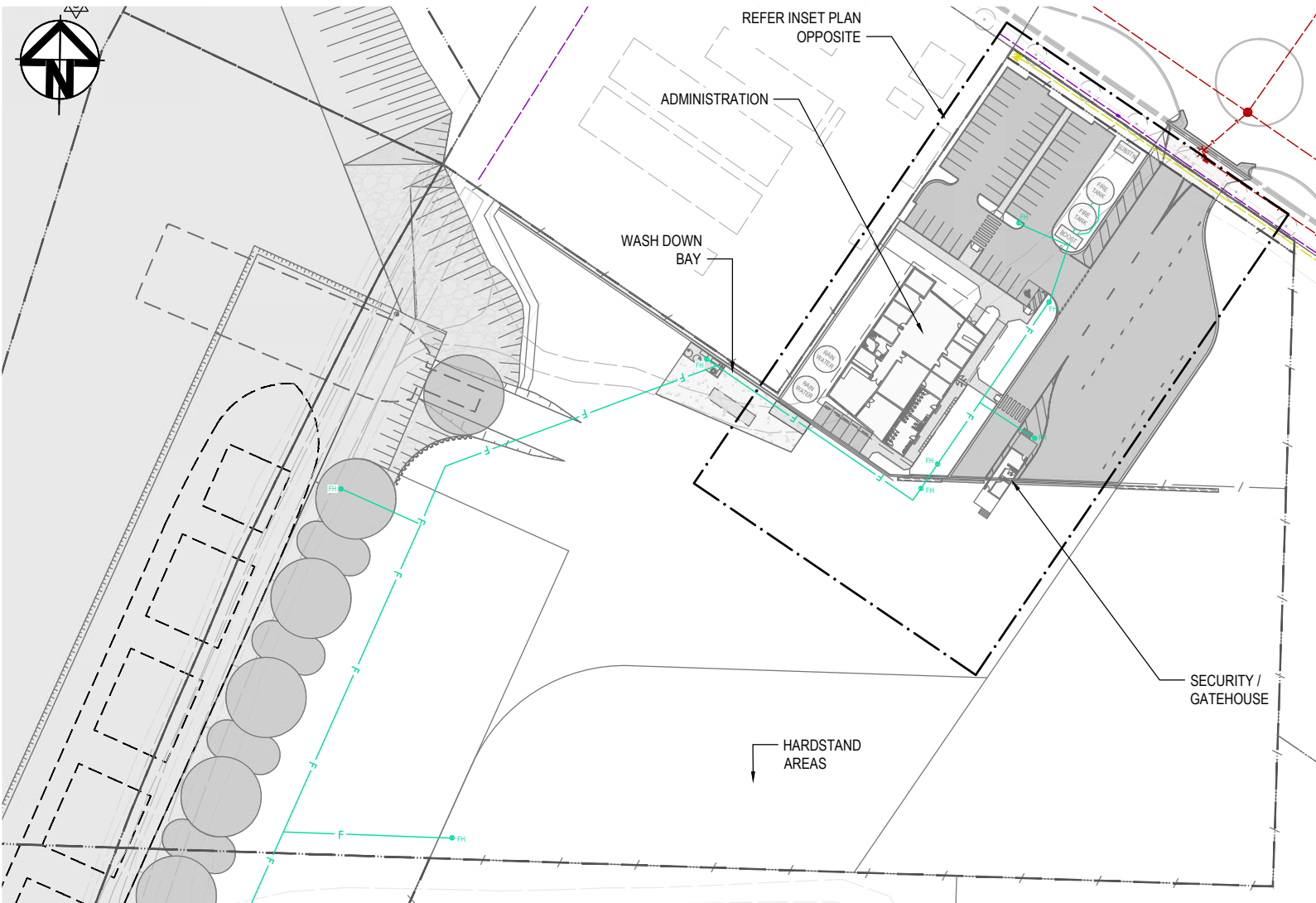
DRAWING TITLE

SERVICES
SITE POTABLE WATER RETICULATION PLAN

SCALE AS SHOWN

DRG NO. 0888 - H0100

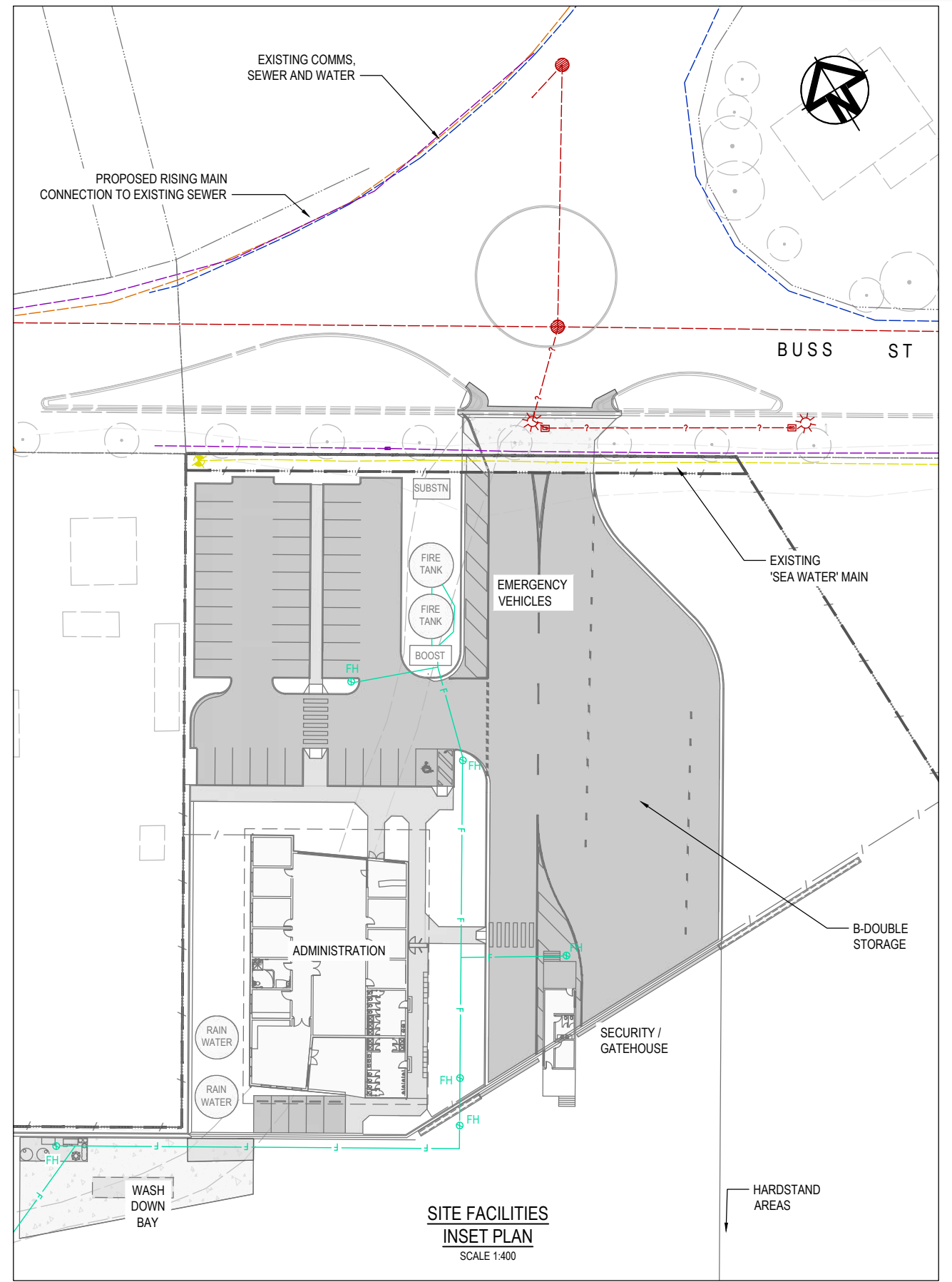
REV A



SITE PLAN
SCALE 1:750

- LEGEND (EXISTING)**
- LEASE BOUNDARY
 - CADASTRE BOUNDARY
 - ELECTRICAL
 - COMMUNICATIONS
 - SEWER
 - SEAWATER
- LEGEND**
- PROPOSED FIRE LINE AND HYDRANT

- NOTES**
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SITE FACILITIES
INSET PLAN
SCALE 1:400

REV	DATE	DESCRIPTION	BY	REVIEWED	APPROVED
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SURVEY / DESIGN REFERENCES

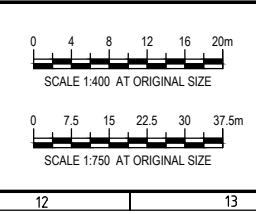
Survey By - INSITE SJC
Dated - 03.08.2021
Horizontal datum - MGA 94 ZONE 56
PM 3853
Vertical datum - AHD (LAND BASED)
LAT (MARINE - WHERE NOTED)

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CLIENT

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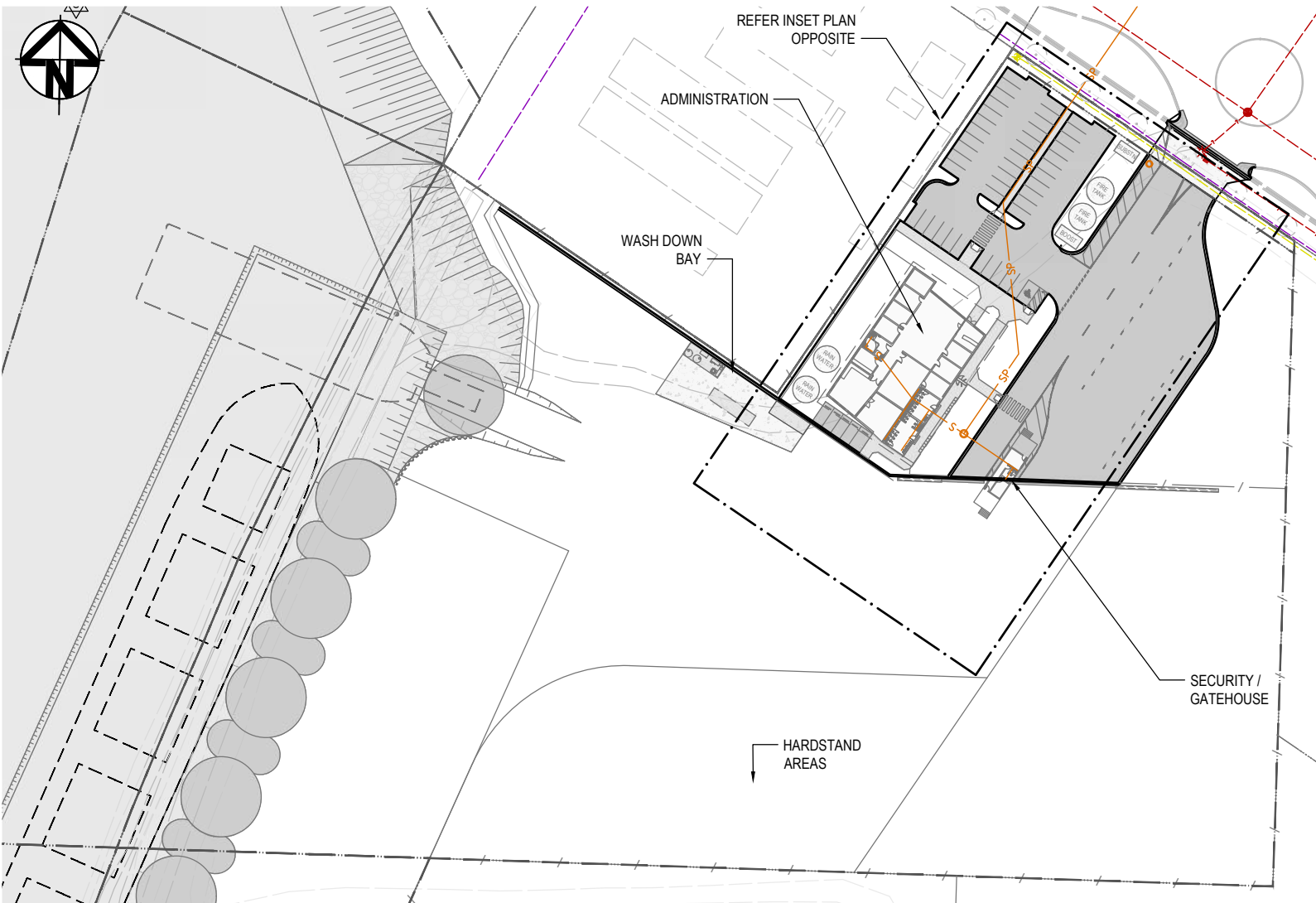
DESIGNED BY	J.LAWLEY	MAY 2022
DES CHK	-	-
DRAWN	M.COLLINGS	MAY 2022
DRG CHK	J.LAWLEY	JUN 2022
REGISTERED PROFESSIONAL	J.LAWLEY	
REGISTRATION	LONJAC PTY LTD	
SIGNATURE		
No.	22281	
Date.	29.6.2022	



PROJECT
PACIFIC MARINE BASE BUNDABERG
MARINE INDUSTRY SITE

DRAWING TITLE
SERVICES
SITE FIRE WATER RETICULATION PLAN

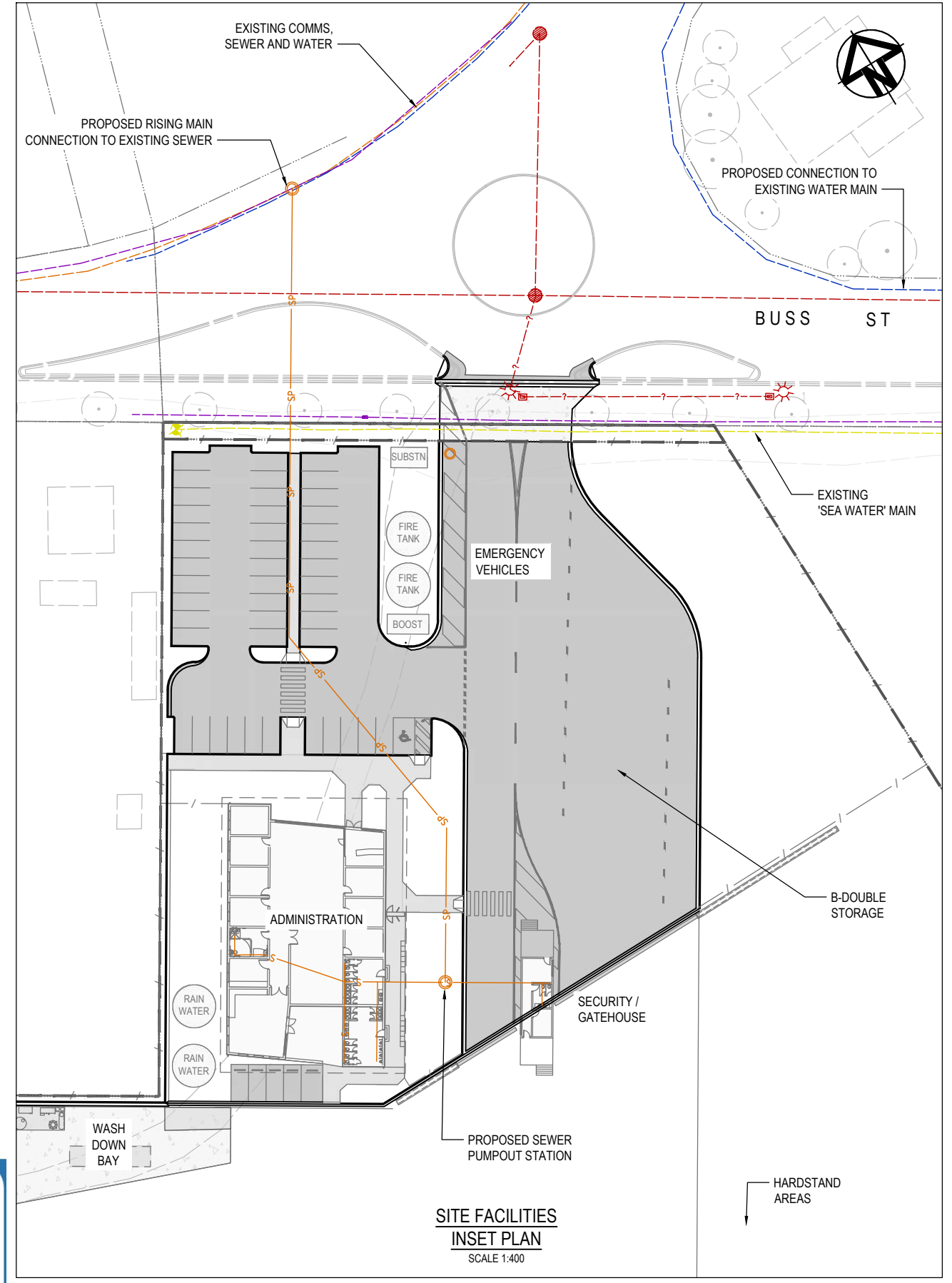
SCALE AS SHOWN DRG NO. 0888 - H0200 REV A



SITE PLAN
SCALE 1:750

- LEGEND (EXISTING)**
- LEASE BOUNDARY
 - CADASTRE BOUNDARY
 - ELECTRICAL
 - COMMUNICATIONS
 - SEWER
 - SEAWATER
- LEGEND**
- SEWER PUMP
 - SEWER
 - PROPOSED SEWER RISING MAIN

- NOTES**
- FOR GENERAL NOTES REFER TO DRAWING 0888-C0001.
 - WHERE SHOWN, SERVICES AND LOCATIONS ARE INDICATIVE ONLY AND SYMBOLS ARE NOT TO SCALE.



SITE FACILITIES
INSET PLAN
SCALE 1:400

REV	DATE	DESCRIPTION	BY	REVIEWED	APPROVED
A	25.6.22	ISSUED FOR DEVELOPMENT APPROVAL	MC	JL	-

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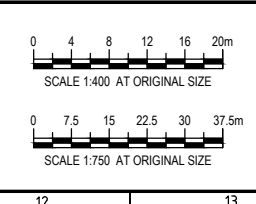
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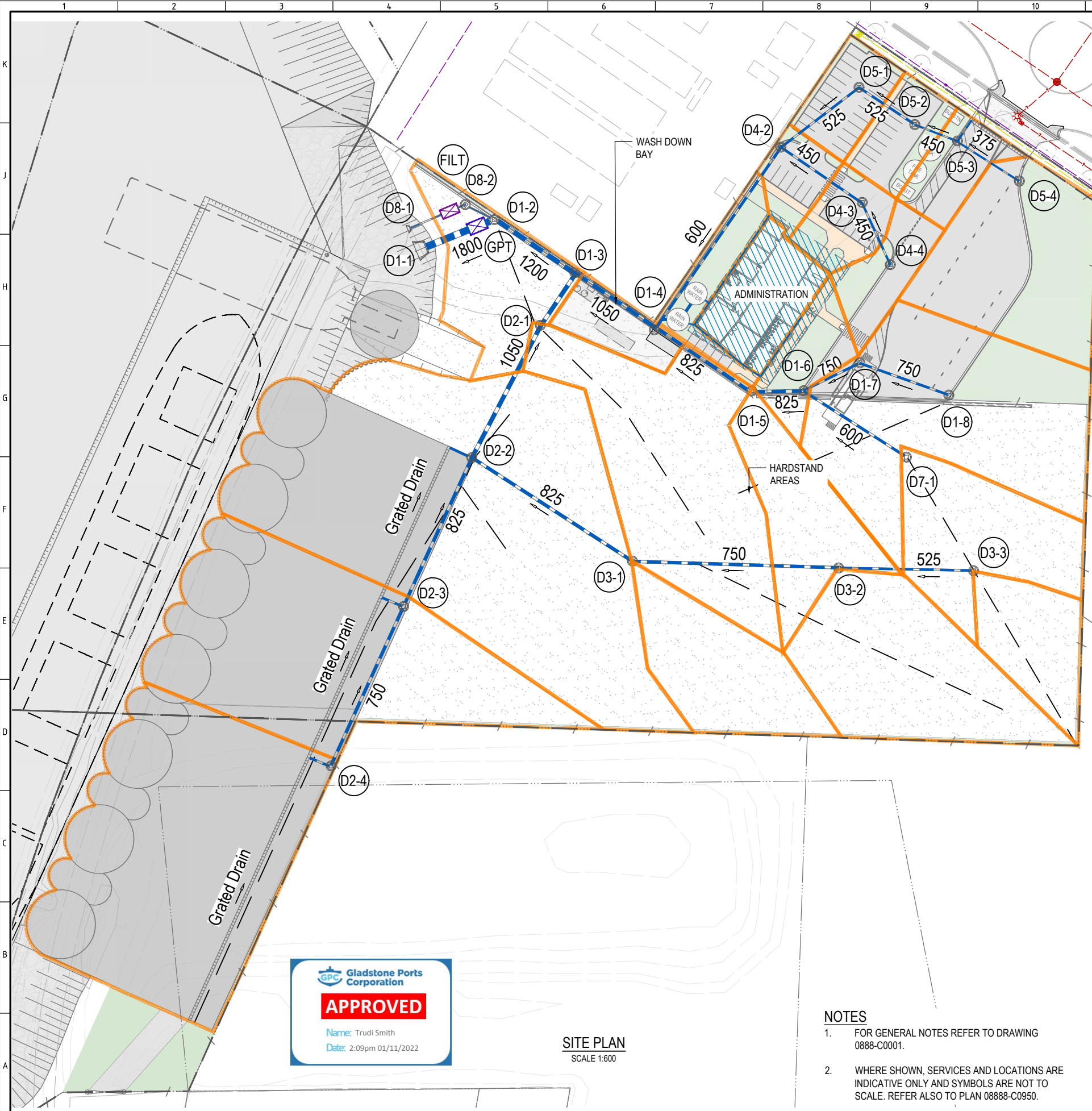
DESIGNED BY	J.LAWLEY	MAY 2022
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SIGNATURE		
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Date.	29.6.2022	



PROJECT
PACIFIC MARINE BASE BUNDABERG
MARINE INDUSTRY SITE

DRAWING TITLE
SERVICES
SITE SEWER WATER RETICULATION PLAN

SCALE AS SHOWN DRG NO. 0888 - H0300 REV A



LEGEND

- STORMWATER PIPE (600)
- CATCHMENT BOUNDARY

LEGEND (EXISTING)

- LEASE BOUNDARY
- CADASTRE BOUNDARY
- ELECTRICAL STORMWATER PIT
- COMMUNICATIONS
- SEWER
- SEAWATER

LEGEND - CIVIL

- FENCE
- HINGED GATE ON POST
- SLIDING TRACK GATE
- ASPHALT WEARING SURFACE
- FOOTPATHS (REFER STD DWG R1030)
- LANDSCAPE (TOPSOIL AND TURF)
- HARDSTAND
- CONCRETE

PIT	PIT TYPE	PAVEMENT (m ²)	LANDSCAPED (m ²)	ROOF / OTHER (m ²)	TOTAL (m ²)
D1-1	HEADWALL	0	0	0	0
GPT	GPT	0	0	0	0
D1-2	K.I.P	HARDSTAND 1370	0	0	1370
D1-3	K.I.P	WASH DOWN 400	0	400	400
D1-4 GROUND	K.I.P	0	570	0	570
D1-4 BUILDING	TANKS	1000	0	1000	1000
D1-5	K.I.P	HARDSTAND 1120	0	0	1120
D1-6	K.I.P	ASPHALT / FOOTPATH 300	300	0	600
D1-7	K.I.P	ASPHALT / FOOTPATH 250	300	0	550
D1-8	K.I.P	ASPHALT 2900	500	0	3400
D2-1	J.P	HARDSTAND / WHARF 3160	0	0	3160
D2-2	J.P	HARDSTAND / WHARF 7420	0	0	7420
D2-3	J.P	HARDSTAND / WHARF 4240	0	0	4240
D2-4	J.P	HARDSTAND / WHARF 4900	0	0	4900
D3-1	J.P	HARDSTAND 1420	0	0	1420
D3-2	J.P	HARDSTAND 2330	0	0	2330
D3-3	J.P	HARDSTAND 1000	0	0	1000
D4-2	K.I.P	ASPHALT / FOOTPATH 280	120	0	400
D4-3	J.P	ASPHALT / FOOTPATH 440	100	0	540
D4-4	J.P	ASPHALT 340	150	0	490
D5-1	J.P	ASPHALT 530	40	0	570
D5-2	J.P	ASPHALT 400	150	0	550
D5-3	K.I.P	ASPHALT 350	150	0	500
D5-4	K.I.P	ASPHALT 1185	1020	0	2205
D7-1	J.P	ASPHALT / HARDSTAND 1600	0	0	1600
TOTAL		36935	3400	1400	40335

APPROVED

Name: Trudi Smith
Date: 2:09pm 01/11/2022

SITE PLAN
SCALE 1:600

- NOTES**
- FOR GENERAL NOTES REFER TO DRAWING 0888-C0001.
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REV	DATE	DESCRIPTION	BY	REVIEWED	APPROVED
A	25.6.22	ISSUED FOR DEVELOPMENT APPROVAL	MC	JL	-

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SURVEY / DESIGN REFERENCES

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CLIENT

BUNDABERG
Pacific Marine Base
Ship Repair | Barging | Project Support

DESIGNED BY	JLAWLEY	MAY 2022
DES CHK	-	-
DRAWN	M COLLINGS	MAY 2022
DRG CHK	JLAWLEY	JUN 2022
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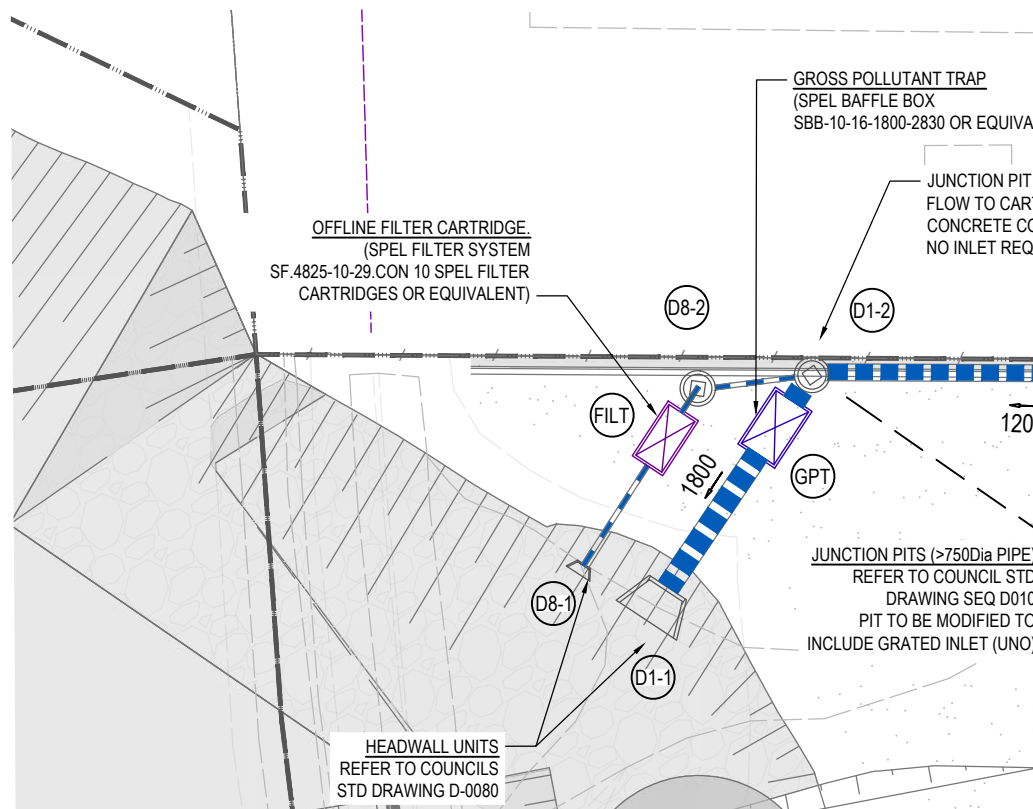
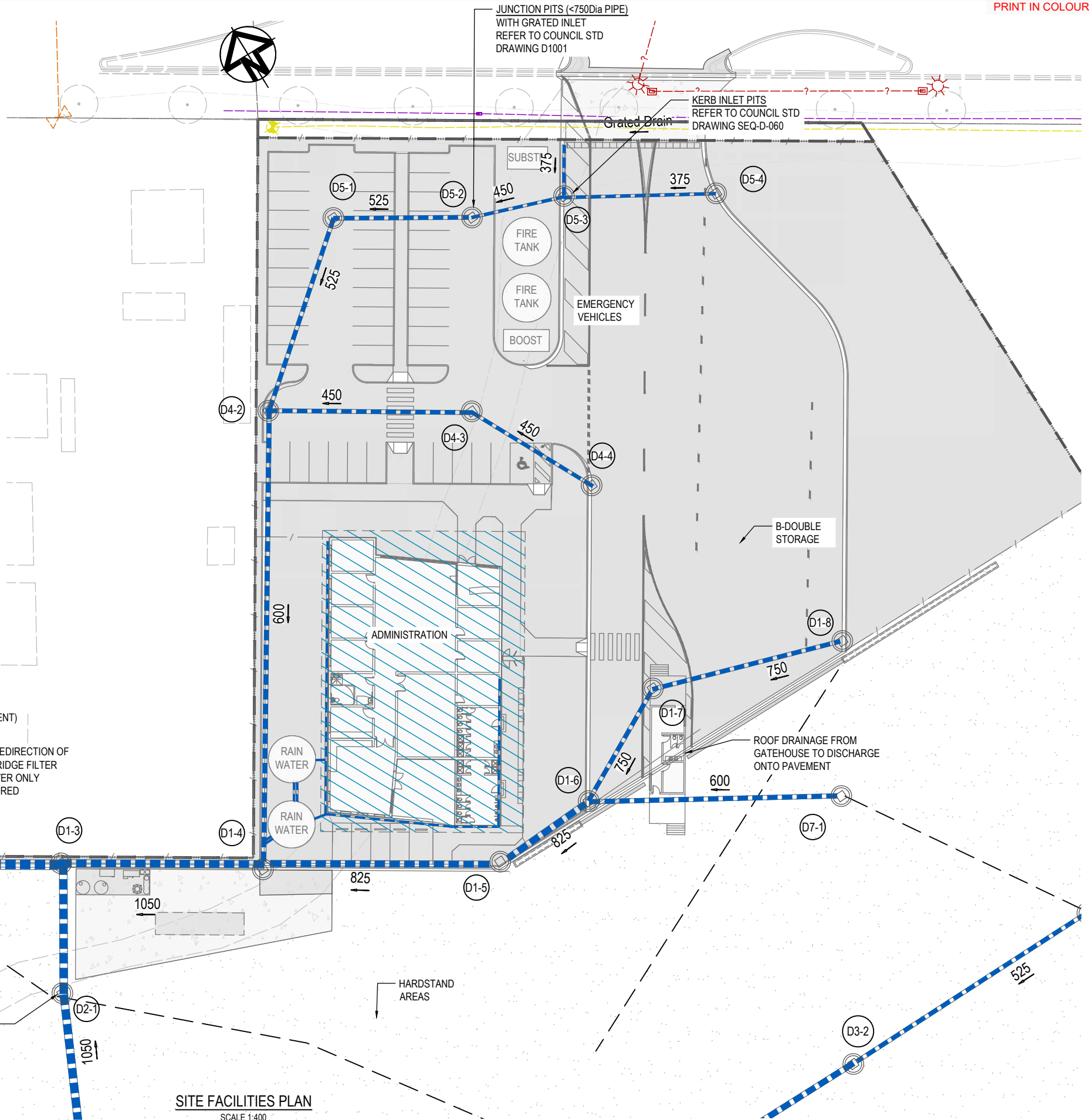
PROJECT
PACIFIC MARINE BASE BUNDABERG
MARINE INDUSTRY SITE

DRAWING TITLE
SERVICES
STORMWATER LAYOUT AND CATCHMENT PLAN

SCALE AS SHOWN
DRG NO. 0888 - H0400
REV A

- LEGEND**
- LEGEND (EXISTING)**
- LEASE BOUNDARY
 - CADASTRE BOUNDARY
 - ELECTRICAL STORMWATER PIT
 - COMMUNICATIONS
 - SEWER
 - SEAWATER
- LEGEND (PROPOSED)**
- STORMWATER PIPE

- NOTES**
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SITE FACILITIES PLAN
SCALE 1:400

REV	DATE	DESCRIPTION	BY	REVIEWED	APPROVED
A	25.6.22	ISSUED FOR DEVELOPMENT APPROVAL	MC	JL	-

CONSULTANT LOGO

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REGISTRATION	LONJAC PTY LTD	
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PROJECT	
PACIFIC MARINE BASE BUNDBERG MARINE INDUSTRY SITE	
DRAWING TITLE	
SERVICES STORMWATER LAYOUT - SITE FACILITIES	
SCALE AS SHOWN	DRG NO. 0888 - H0410
REV A	



GENERAL

- G1. THESE DRAWINGS ARE TO BE READ IN CONJUNCTION WITH THE CONTRACT AND RELEVANT PROJECT SPECIFICATIONS.
- G2. ALL MATERIALS AND WORKMANSHIP SHALL COMPLY WITH THE PROJECT SPECIFICATIONS, ALL RELEVANT AUSTRALIAN STANDARDS, INTERNATIONAL STANDARDS AND STATUTORY REGULATIONS.
- G3. THE WORK IS TO BE CARRIED OUT IN A SAFE MANNER IN ACCORDANCE WITH THE APPLICABLE LEGISLATION, STATUTORY REGULATIONS, BY-LAWS OR RULES.
- G4. THE CONTRACTOR IS RESPONSIBLE FOR OCCUPATIONAL HEALTH AND SAFETY OF SITE PERSONNEL AND GENERAL PUBLIC IN ACCORDANCE WITH ALL CURRENT WORK HEALTH AND SAFETY ACTS, LEGISLATIVE REQUIREMENTS, ASSOCIATED REGULATIONS AND CODES OF PRACTICE, INDUSTRIAL AGREEMENTS AND ACCEPTED INDUSTRY PRACTICE.
- G5. THE CONTRACTOR IS TO OBTAIN ALL NECESSARY PERMITS AND APPROVALS FROM RELEVANT AUTHORITIES BEFORE COMMENCING WORK ON SITE AND NOTIFY RELEVANT SERVICE AUTHORITIES BEFORE COMMENCING WORK ON SITE.
- G6. DIMENSIONS ARE NOT TO BE OBTAINED BY SCALING FROM DRAWINGS.
- G7. DIMENSIONS ARE IN MILLIMETRES, LEVELS ARE IN METRES UNO.
- G8. SERVICES SHOWN ON DRAWINGS ARE IN APPROXIMATE LOCATIONS ONLY.
- G9. SERVICES OTHER THAN THOSE SHOWN MAY EXIST ON SITE.
- G10. THE CONTRACTOR IS TO ESTABLISH THE LOCATION OF ALL SERVICES LOCATED WITHIN THE DESIGNATED WORK AREA/S PRIOR TO COMMENCING WORK AND MARK LOCATIONS OF SERVICES CLEARLY ON SITE, AND ON AS-BUILT DRAWINGS.
- G11. THE CONTRACTOR IS TO PROTECT EXISTING STRUCTURES AND SERVICES FROM DAMAGE OR CRACKING AND MAKE GOOD ANY DAMAGE TO EXISTING ELEMENTS AT COMPLETION OF WORKS.
- G12. WHERE NEW WORK ABUTS EXISTING, THE CONTRACTOR IS TO PROVIDE SMOOTH TRANSITION FREE OF ABRUPT CHANGES.
- G13. CONSTRUCTION METHODS AND TEMPORARY WORKS ARE THE RESPONSIBILITY OF THE CONTRACTOR. THE STRUCTURE IS TO BE MAINTAINED IN A STABLE CONDITION DURING CONSTRUCTION WITH TEMPORARY BRACING AND/OR SUPPORT PROVIDED AS REQUIRED.
- G14. TEMPORARY MEMBERS ARE TO BE SHOWN ON SHOP DRAWINGS. SPREADER BEAMS AND/OR LIFTING POINTS ARE TO BE PROVIDED WHERE REQUIRED.
- G15. THE CONTRACTOR IS TO ENSURE NO PART OF THE STRUCTURE IS OVERSTRESSED.
- G16. THE CONTRACTOR IS TO OBTAIN ADVICE AND CALCULATIONS FROM A SUITABLY QUALIFIED ENGINEER AS REQUIRED TO PROVE THE ADEQUACY OF THE STRUCTURE FOR THE PROPOSED CONSTRUCTION SEQUENCE, METHODS AND LOADS INCLUDING PROPPING, CRANE LIFTS, STORAGE OF MATERIALS etc.

SURVEY CONTROL

- G18. ALL LEVELS ARE IN METERS TO LAT (and AHD).
- G19. SURVEY AND SETTING OUT ARE TO BE UNDERTAKEN BY A REGISTERED SURVEYOR.
- G20. SITE SET OUT DIMENSIONS ARE TO BE VERIFIED BEFORE COMMENCING CONSTRUCTION. EXISTING STRUCTURES SHOWN ON DRAWINGS ARE IN APPROXIMATE LOCATIONS ONLY.
- G21. ANY AMBIGUITIES OR DISCREPANCIES SHALL BE REFERRED FOR CLARIFICATION BEFORE WORK COMMENCES.

HYDROGRAPHIC DATA

- G22. EXISTING BATHYMETRY INFERRED FROM QUEENSLAND GOVERNMENT 'BUNDABERG SWING BASIN POST-BEDLEVELLING HYDROGRAPHIC SURVEY' DATED 11 MAY 2017, PLAN No. F002-054.
- G23. NAVIGATION AIDS AND CHANNEL LIMITS TAKEN FROM QUEENSLAND GOVERNMENT 'BUNDABERG HARBOUR CONTROL PLAN', DATED FEBRUARY 2016, PLAN No. F001-002.

SITE ADDRESS

BURNETT HEADS, BUNDABERG, QUEENSLAND 4670
 LEASE AU on SP305678, LEASE AY on SP335869 all in LOT 501 on SP279707, SUB-LEASE AW on SP305678, SUB-LEASE AZ on SP335869, SUB-LEASE BA AND BB on SP335870 all in LOT 287 on SP166199, SUB-LEASE BC on SP335870 in LOT 276 on SP128643
 LOCAL AUTHORITY: BUNDABERG REGIONAL COUNCIL

DESIGN CRITERIA

STRUCTURES SHALL BE DESIGNED TO THE FOLLOWING PARAMETERS:

- 1. DESIGN LIFE: 30 YEAR MINIMUM WITH MINIMAL MAINTENANCE REQUIRED TO THE PRINCIPAL LOAD BEARING COMPONENTS
- 2. DESIGN VESSELS:

VESSEL	DISPLACEMENT (tonne)	LENGTH (m)	BEAM (m)	DRAFT (m)
DESIGN VESSEL STAGE 1	10,000	100	20	7.0
DESIGN VESSEL STAGE 2	35,000	190	30	9.0

- 3. VESSEL BERTHING - 0.2m/s UNDER NORMAL BERTHING CONDITIONS
 BERTHING ANGLE - 15 DEGREES.
 ABNORMAL FACTOR OF SAFETY - 2.0.
 MINIMUM UKC - >0.5 (AT LAT)m
- 4. DECK LIVE LOADS: REFER TO WHARF PLANS
- 5. WIND LOADS:
 ULTIMATE REGIONAL WIND SPEED V500 - 57 m/s
 OPERATIONAL WIND SPEED V25 - 20 m/s
- 6. WAVE ACTION:
 MAX OPERATIONAL WAVE HEIGHT - HS = 0.4m

SAFETY IN DESIGN

- SID1. THE ADEQUACY OF WORKING SPACE AVAILABLE FOR CONSTRUCTION ACTIVITIES IS TO BE REVIEWED TO ENSURE SEPARATION OF PLANT AND PERSONNEL ON SITE, AND TO PROVIDE FOR THE SAFE MOVEMENT OF BOTH.
- SID2. THE STABILITY OF ANY TEMPORARY RETAINING WALLS MUST BE REVIEWED BY SUITABLY QUALIFIED ENGINEER. BEFORE MATERIALS CAN BE STOCKPILED OR EXCAVATION UNDERTAKEN.
- SID3. ADVICE FROM A SUITABLY QUALIFIED ENGINEER IS TO BE SOUGHT.
- SID4. DEVELOP STEELWORK / PRECAST INSTALLATION SAFE WORK METHOD STATEMENT TO ELIMINATE AND MINIMISE INSTALLATION RISKS, AND HAVE IT REVIEWED BY SUITABLY QUALIFIED STRUCTURAL ENGINEER PRIOR TO ERECTION.
- SID5. STRUCTURAL MEMBERS ARE NOT TO BE CUT OR UNBOLTED WITHOUT SEEKING REVIEW BY A SUITABLY QUALIFIED STRUCTURAL ENGINEER.
- SID6. SITE BASED TREATMENTS ARE TO BE MINIMISED (eg WELDING, CUTTING, SPRAY PAINTING, GRIT BLASTING, etc). ADEQUATE PROTECTION, SCREENING AND VENTILATION TO BE PROVIDED TO MINIMISE THE HAZARD TO PERSONNEL IF SITE BASED TREATMENT IS UNAVOIDABLE.
- SID7. WHERE STRUCTURAL ELEMENTS ARE DAMAGED, CRACKED OR HAVE SUFFERED SIGNIFICANT SECTION LOSS THEY ARE TO BE MADE SAFE BEFORE ALLOWING GENERAL CONSTRUCTION OR REPAIR ACCESS.

PILE INSTALLATION

- E4. ALL PILES SHALL BE DESIGNED, CERTIFIED AND INSTALLED IN ACCORDANCE WITH AS 2159 TO ACHIEVE THE NOMINATED DESIGN LEVELS.
- E5. THE CONTRACTOR SHALL UNDERTAKE A DRIVEABILITY ASSESSMENT TO CONFIRM THE REQUIREMENTS FOR PRE-DRILLING AND DRIVING OF PILES THAT ARE NOT ASSOCIATED WITH THE WHARF.
- E6. THE FOUNDING LEVELS AND PILE SIZES OUTLINED ARE INDICATIVE ONLY AND THE CONTRACTOR SHALL DETERMINE THE DEPTHS REQUIRED TO ACHIEVE THE REQUIRED PILE CAPACITIES.
- E7. THE GROUND CONDITIONS SHALL BE MONITORED AND REVIEWED BY A SUITABLY QUALIFIED GEOTECHNICAL ENGINEER IF THEY DIFFER FROM THE EXPECTED CONDITIONS.

CONCRETE

- C1. ALL WORKMANSHIP AND MATERIALS ARE TO COMPLY WITH THE REQUIREMENTS OF AS3600, AS3610 AND AS1379.
- C2. EXTERNALLY EXPOSED CONCRETE TO BE CLASSIFICATION C2 WITH MIN. COVERS TO COMPLY WITH AS3600 UNO.
- C3. CAST IN STEELWORK, OTHER THAN REINFORCEMENT, SHALL BE STAINLESS STEEL UNO.
- C4. PROVIDE 50 mm BLINDING CONCRETE UNDER STRUCTURAL REINFORCED CONCRETE CAST ON GROUND UNO.

REINFORCEMENT

- R1. ENSURE REINFORCEMENT CAGES ARE ELECTRICALLY CONTINUOUS UNO AND THAT THE PILE REINFORCEMENT IS ELECTRICALLY CONTINUOUS WITH THE HEADSTOCK REINFORCEMENT.
- R2. ENSURE EMBEDDED ITEMS (INSERTS, THREADED SOCKETS, FERRULES, BOLTS, DISSIMILAR METAL ITEMS, etc) IN COVER CONCRETE OR EXPOSED TO AIR ARE NOT IN CONTACT WITH REINFORCEMENT. PROVIDE ISOLATION BETWEEN DISSIMILAR METALS, AND BETWEEN REINFORCEMENT AND EXPOSED ITEMS.
- R3. REINFORCEMENT, CAST-IN ITEMS etc ARE NOT TO BE WELDED UNLESS APPROVED BY A SUITABLY QUALIFIED ENGINEER.

STEELWORK

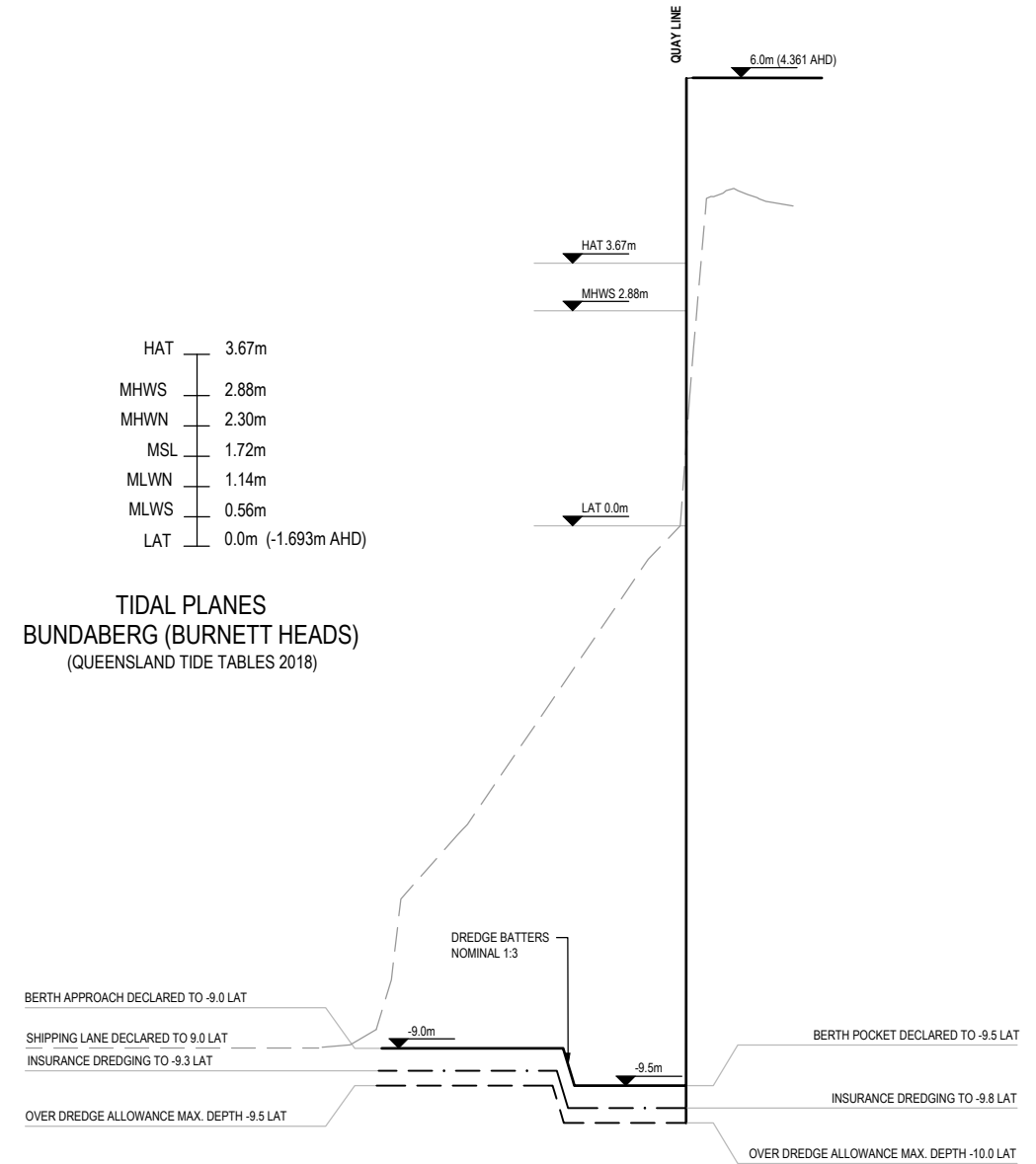
- S1. ALL STEELWORK SHALL BE FABRICATED AND ERECTED IN ACCORDANCE WITH AS 4100, AS/NZS 4600 AND AS/NZS 1554.
- S2. STEELWORK FITTED AFTER CONCRETING SHALL HAVE DIMENSIONS CONFIRMED ONSITE PRIOR TO FABRICATION.
- S3. ALL PLATES SHALL HAVE SHARP EDGES AND CORNERS ROUNDED AND GROUND SMOOTH TO A MINIMUM RADIUS OF 2.0mm.
- S4. ALL CLOSED SECTIONS OR DETAILS DIFFICULT TO BLAST CLEAN AND SURFACE PROTECT SHALL BE SEALED WITH 6mm SEAL PLATES AND MIN. 4mm SEAL WELDS UNO. WHERE DRAINAGE MAY BE A PROBLEM, THE SEAL PLATES SHALL BE INSTALLED AT AN ANGLE TO SHED WATER.
- S5. ALL WELDING SHALL BE STRUCTURAL PURPOSE IN ACCORDANCE WITH AS/NZS 1554 UNO.
- S7. ALL SPLICING OF TUBULAR MEMBERS, PILES AND BEAMS SHALL BE FULL PENETRATION BUTT WELDS UNLESS OTHERWISE SPECIFIED.
- S8. ALL DIFFERENT MATERIALS (STEEL, SS, GALV, ALUMINIUM, ETC) SHALL BE SEPARATED BY INSULATING. BOLT INSULATION SHALL BE ACHIEVED WITH A 1mm THICK NYLON SLEEVE ON BOLT SHANK AND 3mm THICK UHMWPE WASHERS UNDER BOLT HEAD AND NUT.

PROTECTIVE COATINGS

- PC1. PROTECTIVE COATINGS SHALL BE APPLIED TO ANY STRUCTURAL STEEL WORK THAT IS EXPOSED TO ATMOSPHERIC CONDITIONS.
- PC2. STEEL ELEMENTS THAT REQUIRE A PROTECTIVE COATING TO BE APPLIED SHALL HAVE A MINIMUM RADIUS OF 2mm ON ALL EDGES.
- PC3. PROTECTIVE COATING SYSTEM TO BE SUITABLE TO ACHIEVE A 10-YEAR TIME TO FIRST MAINTENANCE FOR A CS-M ENVIRONMENT IN ACCORDANCE WITH THE REQUIREMENTS OF AS/NZS 2312.1. COATING SHALL BE A HIGH SOLIDS EPOXY COATING SYSTEM WITH THE MINIMUM NUMBER OF COATS REQUIRED TO ACHIEVE A MINIMUM DRY FILM THICKNESS OF 400 MICRONS UNLESS OTHERWISE ACCEPTED BY THE SUPERINTENDENT.
- PC4. SURFACE PREPARATION TO THE STEEL ELEMENTS SHALL INVOLVE THOROUGH BLAST CLEANING TO ACHIEVE A CLASS SA 2.5 FINISH IN ACCORDANCE WITH AS 1627.
- PC5. THE PROTECTIVE COATING SYSTEMS SHALL BE APPLIED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.
- PC6. PERMANENTLY IMMERSED STEEL ELEMENTS SHALL BE PROTECTED BY MEANS OF CATHODIC PROTECTION, PROTECTIVE COATINGS AS PER THAT FOR ATMOSPHERIC REGIONS OR OTHERWISE AS APPROVED BY A SUITABLY QUALIFIED ENGINEER AND AFTER INITIAL ASSESSMENT OF PERFORMANCE.

CONSTRUCTION METHOD (ANTICIPATED)

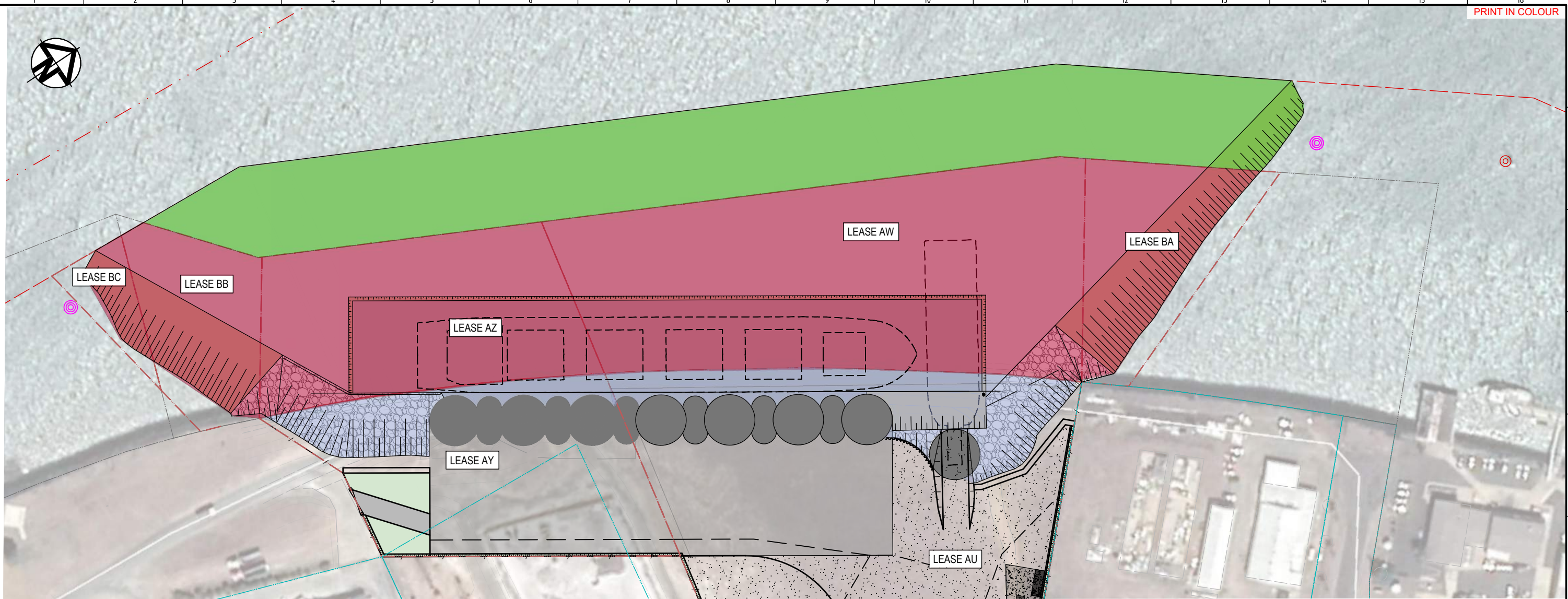
- 1. EXCAVATE BEHIND THE EXISTING REVETMENT TO INSTALL THE PILING PLATFORM (WHICH IS EXPECTED TO 1m ABOVE THE HIGH TIDE REGION), THE EXCAVATED FILL WILL BE STORED ON SITE FOR RE-USE IN BEHIND THE CELLS
- 2. ASSEMBLE THE TEMPORARY WORKS ON THE PLATFORM FOR THE SETOUT OF THE SHEET PILES ABOVE THE FINAL DRIVEN LOCATION.
- 3. DRIVE SHEET PILES. THE SHEETS ARE EXPECTED TO BE DRIVEN TO A TOE LEVEL OF -16.5 LAT. AT THE COMPLETION OF DRIVING EACH OF THE CELLS THE TEMPORARY WORKS ARE RELOCATED TO THE ADJACENT CELL FOR REPEAT OF THE PROCESS. THE LINK WALLS ARE THEN INSTALLED ONCE ALL CELLS ARE DRIVEN
- 4. RE-USE EXCAVATED FILL TO BACKFILL THE CELLS AND THE AREA BEHIND THE CELLS TO THE TOP OF THE SUBGRADE LEVEL ENGINEERED FILL IS THEN USED TO COMPLETE FILLING.
- 5. CONSTRUCT THE REINFORCED CONCRETE CAPPING BEAM, AT THE TOP OF THE SHEET PILE WALL FACING THE RIVER
- 6. EXCAVATE EXISTING ROCKWALL AND STORE ONSITE FOR REUSE. EXCAVATE MATERIAL IN FROM=INT OF CELLS UTILISING AS FILL ON THE SITE.
- 7. REBUILD ROCKWALL BOTH UPSTREAM AND DOWNSTREAM OF INSTALLED CELLS
- 8. DREDGE IN FRONT OF THE WALL TO ACHIEVE THE REQUIRED BERTH POCKET LEVELS
- 9. CONSTRUCT THE SURFACE PAVEMENT INCORPORATING THE RETICULATION OF SERVICES AT REQUIRED DEPTHS AND LOCATIONS.



TIDAL PLANES
 BUNDABERG (BURNETT HEADS)
 (QUEENSLAND TIDE TABLES 2018)

DREDGING TYPICAL SECTION
 NTS

<p>CONSULTANT LOGO</p> <p>978 PINE CREEK ROAD, Electra, Queensland, 4670 Ph +61 (0) 499 000 202 jim@lonjac.net.au</p>				<p>SURVEY / DESIGN REFERENCES</p> <p>Survey By - INSITE SJC Dated - 03.08.2021 Horizontal datum - MGA 94 ZONE 56 PM 3853 Vertical datum - AHD (LAND BASED) LAT (MARINE - WHERE NOTED)</p> <p>CLIENT</p> <p>Ship Repair Bargaining Project Support</p>				<p>DESIGNED BY: J.LAWLEY MAY 2022</p> <p>DES CHK: - -</p> <p>DRAWN: M.COLLINGS MAY 2022</p> <p>DRG CHK: J.LAWLEY JUN 2022</p> <p>REGISTERED PROFESSIONAL: J.LAWLEY</p> <p>REGISTRATION: LONJAC PTY LTD</p> <p>SIGNATURE: [Signature]</p> <p>No: 22281</p> <p>Date: 29.6.2022</p>				<p>PROJECT</p> <p>PACIFIC MARINE BASE BUNDABERG MARINE INDUSTRY SITE</p> <p>DRAWING TITLE</p> <p>MARITIME NOTES AND TYPICAL SECTION</p> <p>SCALE AS SHOWN</p> <p>DRG NO. 0888 - K0000</p> <p>REV A</p>			
REV	DATE	DESCRIPTION	BY	REVIEWED	APPROVED										
A	25.6.22	ISSUED FOR DEVELOPMENT APPROVAL	MC	JL	-										



PLAN
SCALE 1:750

Gladstone Ports Corporation

APPROVED

Name: Trudi Smith
Date: 2:10pm 01/11/2022

- AREA 1**
DREDGE AND OPERATION AREA FOR SUB-LEASE AW ON SP305678, SUB LEASE AZ ON SP335869, SUB LEASE BA AND BB ON SP335870 ALL IN LOT 287 ON SP166199 AND SUB LEASE BC ON SP335870 IN LOT 276 ON SPR8643 (WET AREA OWNED BY THE STATE AND LEASED BY GPC.)
- AREA 2**
DREDGE AREA ON UNALLOCATED STATE LAND (USL) ASSOCIATED WITH SITE DEVELOPMENT
- AREA 3**
DREDGE AREA FOR LEASE AU ON SP305678 AND LEASE AY ON SP3355869 ALL IN LOT 501 ON SP279707 (DRY AREA OWNED BY GPC)

- LEGEND - CIVIL**
- LEASE BOUNDARY
 - CADASTRE BOUNDARY
 - FENCE
 - HINGED GATE ON POST
- LEGEND - MARITIME**
- DEPARTURE CHANNEL
 - BERTH
 - 1 in 3 DREDGE BATTER
 - ROCK PROTECTION

- NOTES**
- FOR GENERAL NOTES REFER TO DRAWING 0888-C0001.
 - WHERE SHOWN, SERVICES AND LOCATIONS ARE INDICATIVE ONLY AND SYMBOLS ARE NOT TO SCALE.

REV	DATE	DESCRIPTION	BY	REVIEWED	APPROVED
B	29.6.2022	FOR DEVELOPMENT APPROVAL	JL	JL	-
A	25.6.22	ISSUED FOR REVIEW	MC	JL	-

CONSULTANT LOGO

LONJAC
CIVIL • MARINE • MANAGEMENT

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SURVEY / DESIGN REFERENCES

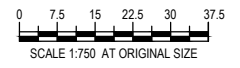
Survey By - INSITE SJC
Dated - 03.08.2021
Horizontal datum - MGA 94 ZONE 56
PM 3853
Vertical datum - AHD (LAND BASED)
LAT (MARINE - WHERE NOTED)

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CLIENT

BUNDABERG
Pacific Marine Base
Ship Repair | Barging | Project Support

DESIGNED BY	J.LAWLEY	MAY 2022
DES CHK	-	-
DRAWN	M.COLLINGS	MAY 2022
DRG CHK	J.LAWLEY	JUN 2022
REGISTERED PROFESSIONAL	J.LAWLEY	
REGISTRATION	LONJAC PTY LTD	
SIGNATURE		
No.	22281	
Date.	29-06-2022	



PROJECT
PACIFIC MARINE BASE BUNDABERG
MARINE INDUSTRY SITE

DRAWING TITLE
STAGE 2
MARITIME LAYOUT

SCALE AS SHOWN

DRG NO. **0888- K0020**

REV **B**

GENERAL :

STEELWORK:

- ALL STEELWORK PLATES SHALL BE GRADE 350 TO AS/NZS 3678 U.N.O.
- ALL SURFACES OF STEELWORK SHALL BE CLEANED AND PAINTED IN ACCORDANCE WITH THE PAINT MANUFACTURER'S SPECIFICATION U.N.O.
- ALL RHS & SHS SECTIONS SHALL BE GR.350 TO AS 1163 U.N.O.
ALL CHS SECTIONS SHALL BE GR.350 TO AS 1163 U.N.O.
ALL STRUCTURAL SECTIONS SHALL BE GR.300 TO AS 3679 U.N.O.
ALL PINS SHALL BE GR. 4140 U.N.O.
- UNIDENTIFIED STEEL SHALL NOT BE USED IN STRUCTURAL MEMBERS OR CONNECTIONS.
- ALL STEEL SHALL BE FREE FROM EXCESSIVE RUST, PITTING AND OTHER DEFECTS LIKELY TO IMPAIR THE STRUCTURAL CAPACITY OF THE MEMBER OR QUALITY OF THE PROTECTIVE COATING SYSTEM.
- ALL BOLTS, NUTS AND WASHERS SHALL BE HIGH STRENGTH STRUCTURAL BOLTS GRADE 8.8/S TO AS 1252 U.N.O.
- HIGH STRENGTH STRUCTURAL BOLTS REQUIRING TENSIONING SHALL BE NOTED 8.8/TF OR 8.8/TB ON THE DRAWINGS AND SHALL BE TENSIONED IN ACCORDANCE WITH AS 4100.
- ALL BOLTS, NUTS AND WASHERS NOT MANUFACTURED FROM STAINLESS STEEL SHALL BE HOT DIP GALVANISED TO AS 1214 U.N.O.
- BOLT HOLE CLEARANCE FOR STRUCTURAL CONNECTIONS (EXCLUDING BASE PLATES) SHALL BE 2mm U.N.O.
- ALL BOLT SPACING AND EDGE DISTANCES SHALL BE THOSE SPECIFIED IN AS 4100 U.N.O.
- STAINLESS STEEL BOLTS SHALL BE LUBRICATED WITH A SUITABLE MOLYBDENUM DISULPHIDE LUBRICANT TO PREVENT BINDING.
- THERE SHALL BE NO DIRECT CONTACT BETWEEN DISSIMILAR METALS WITHOUT WRITTEN APPROVAL FROM ENGINEER. SEPARATION SHALL BE PROVIDED BY AN APPROVED SYNTHETIC INSULATION MATERIAL.
- ALL WELDS SHALL BE CATEGORY SP (STRUCTURAL PURPOSE) TO AS 1554 USING E48XX OR W50XX CONSUMABLES U.N.O.
- ALL WELDS SHALL BE 10mm CONTINUOUS FILLET WELDS ALL AROUND (BOTH SIDES) U.N.O.
- ALL BUTT WELDS SHALL BE COMPLETE PENETRATION BUTT WELDS U.N.O.
- WELDING SYMBOLS USED ON DRAWINGS ARE IN ACCORDANCE WITH AS 1101.3. ALTERNATIVELY THE FOLLOWING MAY APPLY:
 - CFW: CONTINUOUS FILLET WELD
 - CPBW: COMPLETE PENETRATION BUTT WELD
- THE FINISHED SURFACE AND PROFILE OF ALL WELDING SHALL BE SMOOTH AND FREE FROM SHARP EDGES OR CREVICES. ALL SLAG, WELD SPATTER, POROSITY AND IRREGULAR WELD CONTOURS SHALL BE TOTALLY REMOVED. THE WELD SURFACE SHALL BE REPLACED AND GROUND AS DIRECTED BY THE ENGINEER UNTIL A

SATISFACTORY SURFACE FINISH IS ACHIEVED.

- ALL CONNECTIONS OF ABUTTING PLATES, FLANGES, HOLLOW SECTIONS, ETC, SHALL HAVE THE THICKER COMPONENT TAPERED AT 1:4 LEADING INTO THE BUTT WELDED JOINT.
- FABRICATION SHALL COMPLY WITH THE SPECIFICATION AND THE REQUIREMENTS OF AS 4100, AS 2159 AND AS1554 WHERE APPLICABLE.
- ALL PLATES, GUSSETS ETC, SHALL HAVE SHARP EDGES AND CORNERS ROUNDED AND GROUND SMOOTH TO A MINIMUM RADIUS OF 1.5mm.
- ALL SHARP IRREGULARITIES, WHETHER APPARENT BEFORE OR AFTER BLAST CLEANING, SHALL BE REMOVED PRIOR TO COMMENCEMENT OF COATING APPLICATION.
- ENDS OF HOLLOW SECTIONS SHALL BE SEALED WITH 6mm CAP PLATES AND 6mm CFW, U.N.O
- NO HOLES SHALL BE DRILLED INTO HOLLOW SECTIONS. WHERE CONNECTION TO HOLLOW SECTIONS IS REQUIRED, WELDED CLEATS SHALL BE PROVIDED.
- DETAILS DIFFICULT TO BLAST CLEAN AND SURFACE PROTECT ARE TO BE SEALED WITH 6mm SEAL PLATES AND 6mm CFW, U.N.O.

CONCRETE:

- ALL CONCRETE WORK SHALL COMPLY WITH AS3600 CONCRETE STRUCTURES AND AS4997 GUIDELINES FOR THE DESIGN OF MARITIME STRUCTURES.
- UNLESS OTHERWISE INDICATED, CONCRETE SHALL BE:
 - CLASS S50
 - MIN. CEMENTITIOUS CONTENT 425kg/m³
 - MAX. 56 DAY DRYING SHRINKAGE OF 600x10⁻⁶ mm/mm DETERMINED IN ACCORDANCE WITH AS1012.13
 - MAX WATER TO BINDER MATERIAL RATIO OF 0.40
- UNLESS OTHERWISE INDICATED GROUT SHALL BE 50MPa NON-SHRINK.
- CONCRETE SHALL BE CURED IN ACCORDANCE WITH AS 3600.
- CONSTRUCTION JOINTS IN POSITIONS OTHER THAN THOSE INDICATED ON THE DRAWINGS SHALL BE APPROVED BY THE ENGINEER PRIOR TO PLACING CONCRETE.
- A WATERPROOF (0 2mm POLYTHENE FILM) MEMBRANE SHALL BE PLACED UNDER ALL FOUNDATIONS AND SLABS POURED ON GROUND.

REINFORCEMENT:

- REINFORCEMENT SHALL BE STORED CLEAR OF THE GROUND AND PROTECTED AGAINST SALT WATER SPRAY AND OTHER CONTAMINANTS.
- ALL REINFORCEMENT SHALL BE POSITIVELY SUPPORTED BY PLASTIC BAR CHAIRS OR SIMILAR. USE METAL PANS UNDER THESE WHERE SEATING ON GROUND.
- ALL LOOSE BARS ARE TO BE TIED WITH SOFT IRON TIE WIRE OR PATENT BINDERS.
- MINIMUM COVER FOR ALL REINFORCING SHALL BE 75mm.

5. MINIMUM LAP LENGTHS SHALL BE AS FOLLOWS U.N.O.

CONCRETE GRADE	S50
BAR DIAMETER	MIN LAP LENGTH (mm)
N12	350
N16	500
N20	600
N24	750
N28	950
N32	1150
N36	1350

- REINFORCEMENT IS SHOWN DIAGRAMMATICALLY; IT IS NOT NECESSARILY SHOWN IN TRUE PROJECTION.
- REINFORCEMENT SHALL CONFORM WITH AS/NZS 4671. R - DENOTES STRUCTURAL GRADE (GRADE 250 R) PLAIN ROUND BARS. N - DENOTES HOT ROLLED DEFORMED BARS (GRADE 500).
- IN SLABS AND BEAMS WITH LONG CONTINUOUS BARS, SPLICES SHALL BE STAGGERED IN ADJACENT BARS BY A MINIMUM OF 1.3 TIMES THE MINIMUM LAP LENGTH FROM END OF BAR TO END OF ADJACENT BAR.
- AT POSITIONS WHERE MORE THAN 50% OF REINFORCEMENT IS SPLICED, LAP LENGTHS SHALL BE MULTIPLIED BY 1.25.

FORMWORK:

- ALL FORMWORK SHALL COMPLY WITH AS3610 AND ALL GAPS SHALL BE SEALED.
- ALL EXTERNAL NINETY DEGREE CORNERS TO HAVE 20 x 20 CHAMFER U.N.O.
- FORMS SHALL BE AIR SWEEP AND LOOSE DEBRIS REMOVED PRIOR TO POURING CONCRETE.
- ALL FORMWORK FOR CONCRETE SHALL BE CLASS 2 FINISH.

CAISSON PILING:

- SUPPLY AND INSTALLATION OF PILES SHALL COMPLY WITH AS 2159 "PILING DESIGN AND INSTALLATION".
- ALL STEEL PILES SHALL HAVE A MINIMUM YIELD STRENGTH OF 350 MPa.
- SPLICES IN PILES SHALL BE C.P.B.W. CATEGORY SP (STRUCTURAL PURPOSE) U.N.O.
- ALL MAIN WHARF PILES ARE 22m LONG. PILES TO BE INSTALLED TO FULL LENGTH FROM SPECIFIED TOP RL OR TO REFUSAL IN HARD LAYER AT RL -14.5m LAT OR DEEPER.
- THE BARGE RAMP CELL PILES TO BE INSTALLED TO FULL NOMINATED SHEET LENGTH OR HALF SHEET LENGTH FROM NOMINATED TOP RL OR TO RL -13.5m LAT FOR FULL SHEETS IN HARD LAYER.
- ALL PILES TO NOTE FINAL INSTALLED DEPTH AND EXPERIENCED INSTALLATION CONDITIONS.

PROTECTIVE COATINGS:

- PROTECTIVE COATINGS TO ALL PILES SHALL BE IN ACCORDANCE WITH THE SPECIFICATION U.N.O..

- FULLY PAINT ALL WELDED Y PILES AND FENDER CARRIERS.

- PROTECTIVE COATINGS CAN BE APPLIED TO THE TOP 5.5m OF THE SEAWARD OUTER FACE OF ALL PILES.

GENERAL:

- STAGE 1 FENDERING FOR THE WHARF IS PROVIDED BY THE WHARF OPERATOR THROUGH THE USE OF SELF FENDERING BARGES AND PNEUMATIC FENDERS AS REQUIRED.

MOORING BOLLARDS:

- 100t TEE HEAD MOORING BOLLARDS ARE DE-RATED TO 30t FOR STAGE 1.
- FOR STAGE 2 THE DE-RATED BOLLARDS WILL BE RE-INSTALLED ACCORDING TO MANUFACTURER'S SPECIFICATIONS TO ACHIEVE FULL LOAD RATING
- THE 50t MOORING BOLLARDS USED ON THE BARGE RAMP MAY HAVE ADDITIONAL STEEL REINFORCEMENT ADDED AFTER FINAL BOLLARD SUPPLIER HAS BEEN CONFIRMED. CHECK PRIOR TO BARGE RAMP POUR.

FILL AND COMPACTION:

- FINAL COMPACTION DETAIL SUBJECT TO ASSESSMENT POST CELL DRIVING AND PRIOR TO PLACING GEOTEXTILE LAYER.
- EARTHWORKS SHALL BE CARRIED OUT BY FILL OPERATIONS TO ACHIEVE LEVELS IN ACCORDANCE WITH THE FINISHED SURFACE LEVELS AND MINIMUM DEPTHS SHOWN ON THE DRAWINGS.
- CELL AREA SELECTED FILL MATERIAL SHALL BE ROAD BASE MRS1105. CBR 70 AT 5.0mm PENETRATION. PLACE IN MAXIMUM 200mm LAYERS APART FROM THE UPPER TWO LAYERS WHICH SHALL BE AT 100mm.
- SELECTED FILL MATERIAL SHALL BE SUPPLIED AND COMPACTED WHERE NECESSARY, TO OBTAIN GEOTEXTILE LEVEL. FILL MATERIAL SHALL BE APPROVED MATERIAL.
- EXCAVATION SHALL BE CARRIED OUT WHERE NECESSARY, TO OBTAIN SUBGRADE LEVEL. SELECTED FILL MATERIAL SHALL BE SUPPLIED AND COMPACTED WHERE NECESSARY TO OBTAIN SUBGRADE LEVEL.
- ALL EARTHWORKS FILL AND EXCAVATED AREAS SHALL BE COMPACTED TO 98% STANDARD MAXIMUM DRY DENSITY (AS 1289 5.1.1) WITH TOP 150mm RUNNING COURSE 100% MODIFIED.
- COMPACTION TEST RESULTS AND TEST LOCATIONS FOR SUBGRADE AND EARTHWORKS FILL TESTING SHALL BE SUBMITTED TO AND APPROVED BY THE ENGINEER PRIOR TO PLACING PAVEMENT MATERIALS.
- COMPACTION TESTS ARE REQUIRED FOR ALL CELLS AND SHALL BE CARRIED OUT AT THE RATE OF ONE TEST SET PRIOR TO PLACING THE GEOTEXTILE AND MID AND FINAL FILL LEVEL. A TEST SET IS TWO TESTS PER SMALL CELL AND FOUR TEST PER LARGE CELL.
- FINAL AND INTERIM PAVEMENT DESIGN AND DETAIL OVER THE CELL STRUCTURES TO CONSIDER FUTURE

DESIGN INTEGRATION WITH LANDSIDE PAVEMENT WORKS.

- ALLOWANCE SHALL BE MADE FOR QUALITY TESTING (INCLUDING SOAKED CBR) FOR EACH TYPE OF IMPORTED STRUCTURAL FILL MATERIAL, TO SHOW COMPLIANCE WITH SPECIFIED REQUIREMENTS.

- ALL FILL AND COMPACTION REQUIREMENTS WILL BE SPECIFIED WITH INPUT FROM THE DRIVING CONDITIONS OF THE CELLS AND TESTING PRIOR TO BACKFILLING IN THE CELL AREA.

WELDING OF JUNCTION PILES:

- JUNCTION PILES ARE SPECIAL PURPOSE WELDS.
- FULL STRENGTH BUTT WELDS ARE REQUIRED 480MPa GRADE (FP BW/480/SP)
- WELDING METHOD, EQUIPMENT, MATERIALS AND TESTING METHODS WILL NEED TO BE APPROVED BY THE ENGINEER SUPPLIED BY THE WELDING CONTRACTOR.



REV	DATE	DESCRIPTION	BY	REVIEWED	APPROVED
1	08.06.22	ISSUED FOR CONSTRUCTION	SB	RJH	PM
0	22.12.21	ISSUED FOR CONSTRUCTION			

CONSULTANT

Kramer Ausenco
ENGINEERS & PROJECT MANAGERS

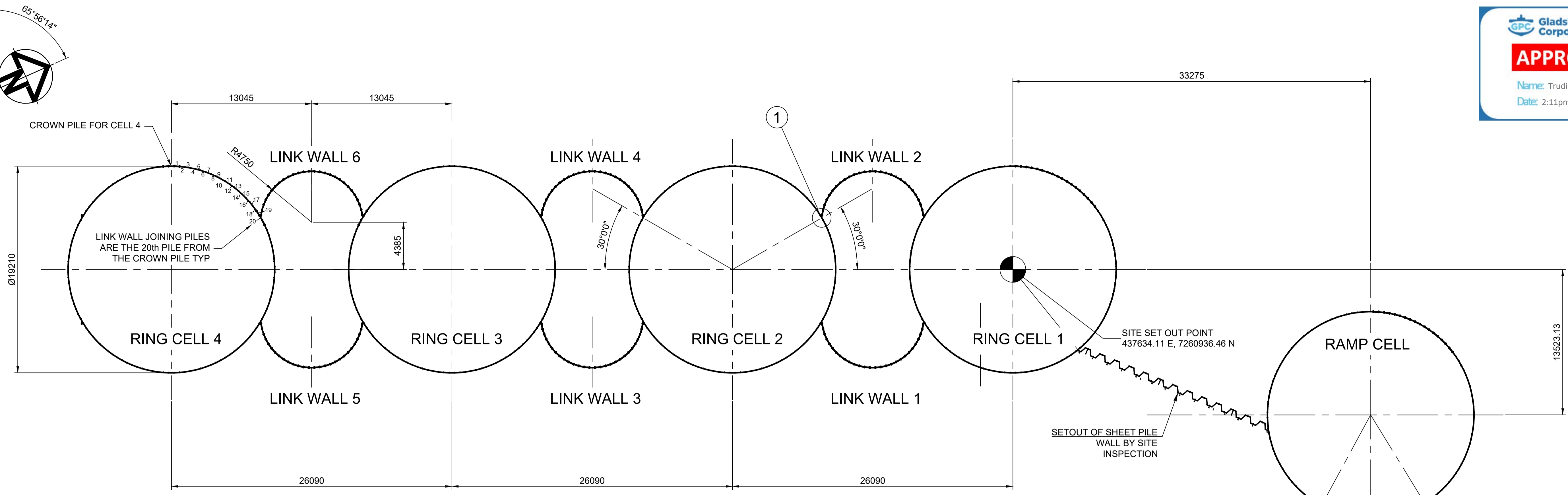
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VERT. DATUM			

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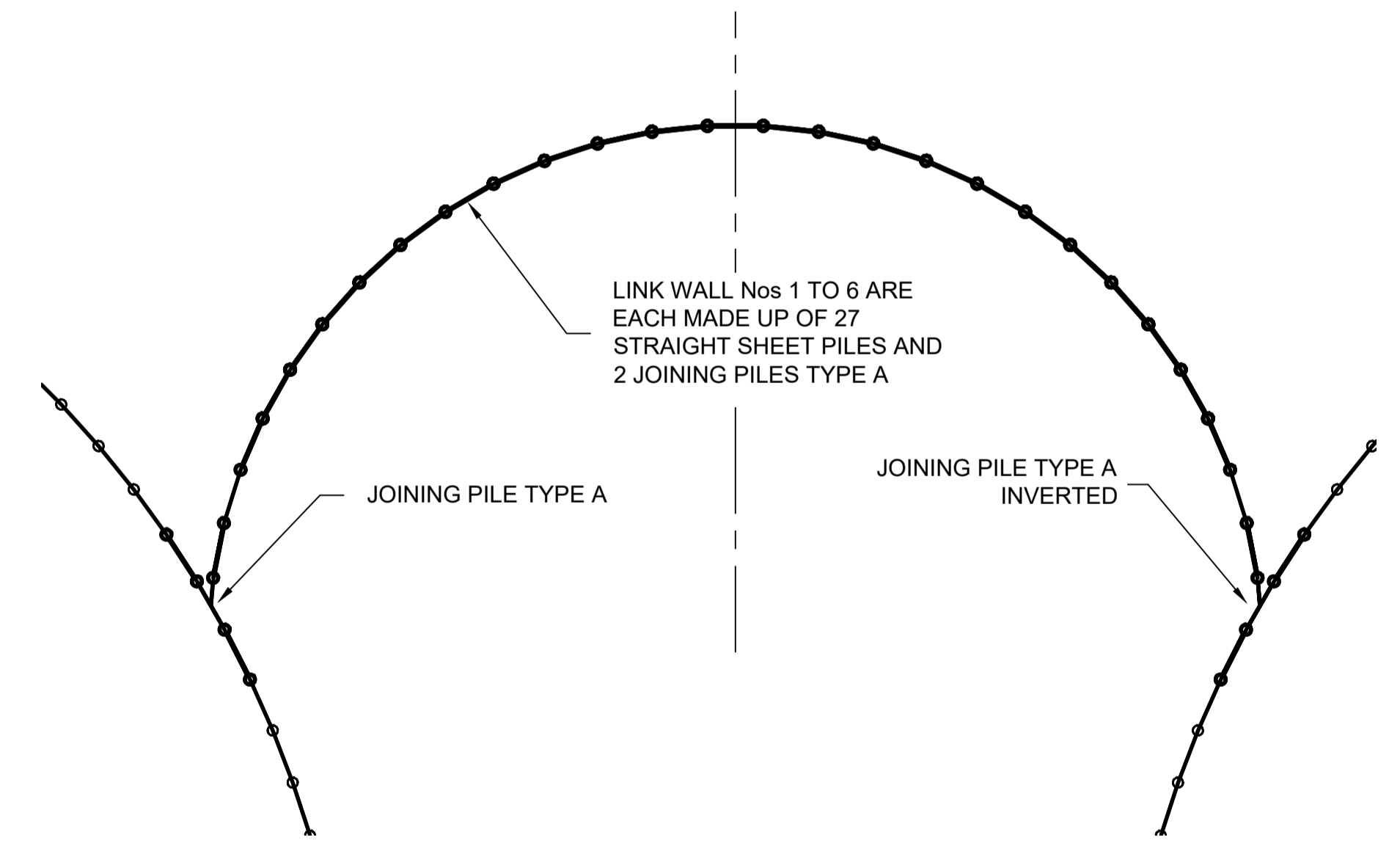


DESIGNED BY	Robert Hancock
DESIGN CHECK	Roy Scott
DRAWN BY	Luke Rzepka 23.11.21
DRAWING CHECK	Shonaugh Blanchard
REGISTERED PROFESSIONAL	Peter Moodie
REGISTRATION	RPEQ
SIGNATURE	<i>P Moodie</i>
NUMBER	3313
DATE	22.06.17

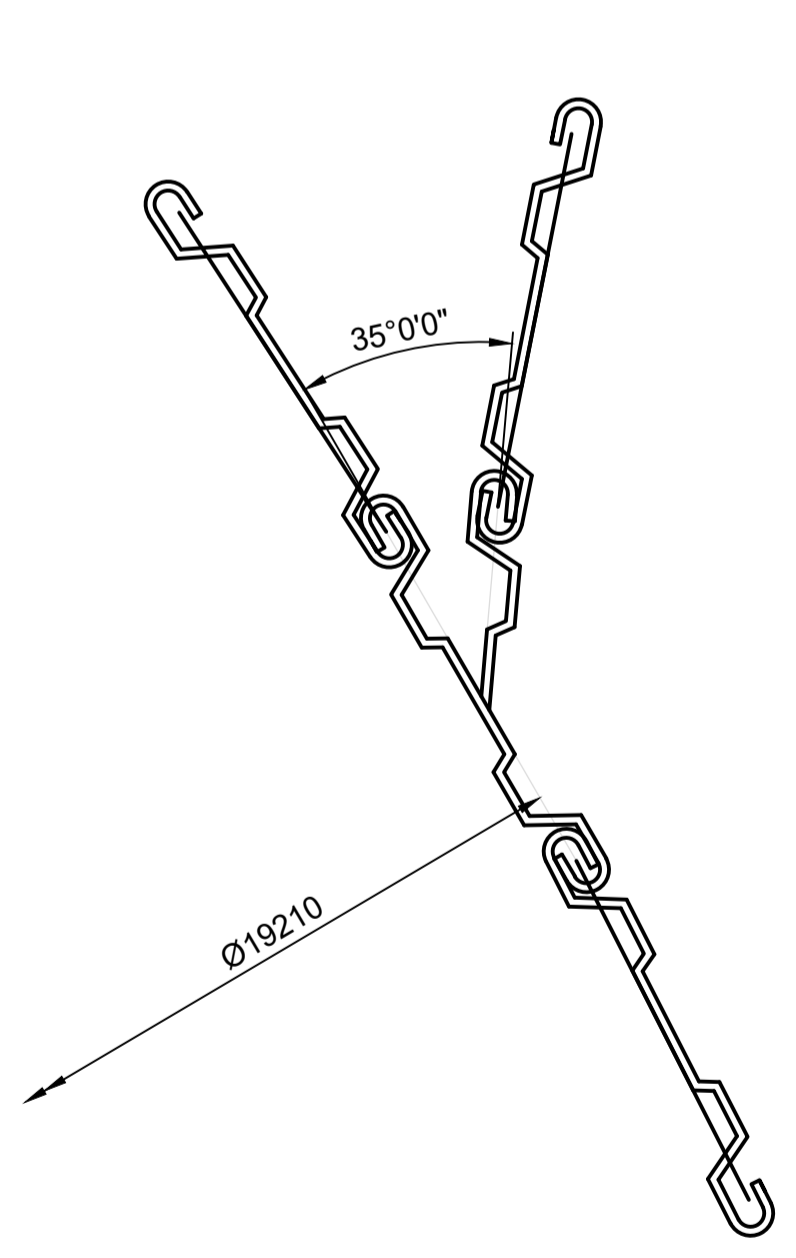
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DRAWING TITLE STAGE 1 WORKS - STRUCTURAL GENERAL NOTES		
SCALE As Noted	DRAWING NUMBER 0888-K0101	REVISION 1



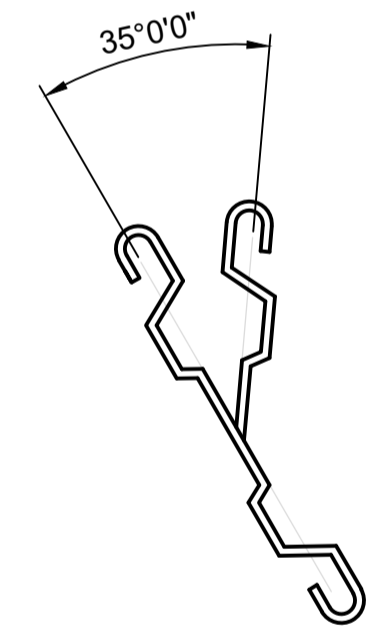
RING CELL SET OUT PLAN
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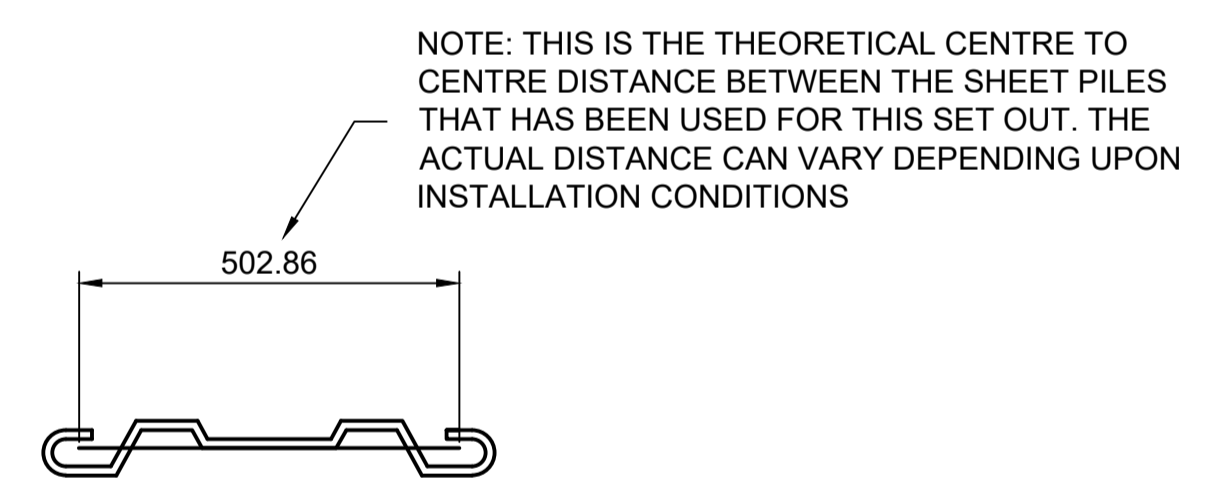
LINK WALL DETAIL
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DETAIL 1
 SCALE 1:10



JOINT PILE TYPE A - 13mm THICK x 22m LONG
 14 TOTAL REQUIRED FOR STAGE 1



STRAIGHT PILE - UNO 13mm THICK x 22m LONG
 120 PER CELL REQUIRED (WITH NO JOINING PILES) 748 TOTAL REQUIRED FOR STAGE 1

- NOTES:**
1. ALL LEVELS RELATIVE TO LAT.
 2. STAGE 1 GEOTECHNICAL 3D MODEL REVIEWED TO THE SATISFACTION OF THE STRUCTURAL ENGINEER PRIOR TO DRIVING OF PILES FOR STAGE 1

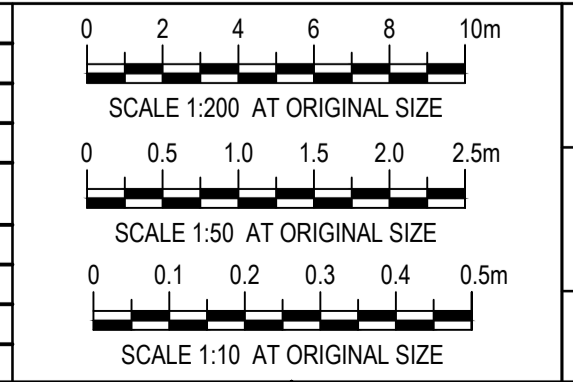
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0	22.12.21	ISSUED FOR CONSTRUCTION			

CONSULTANT
Kramer Ausenco
 ENGINEERS & PROJECT MANAGERS

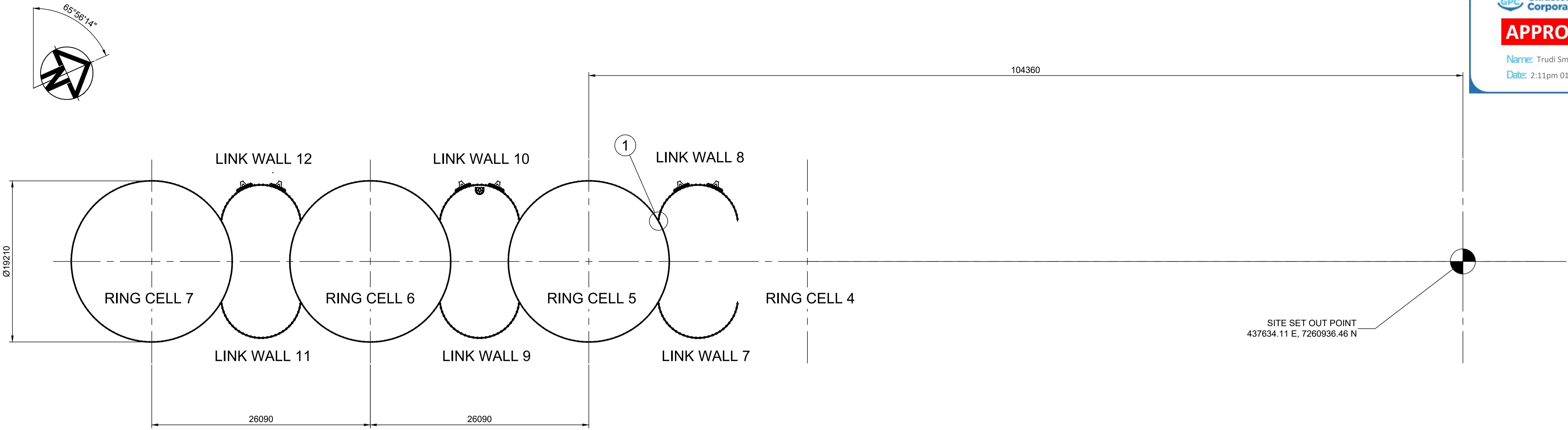
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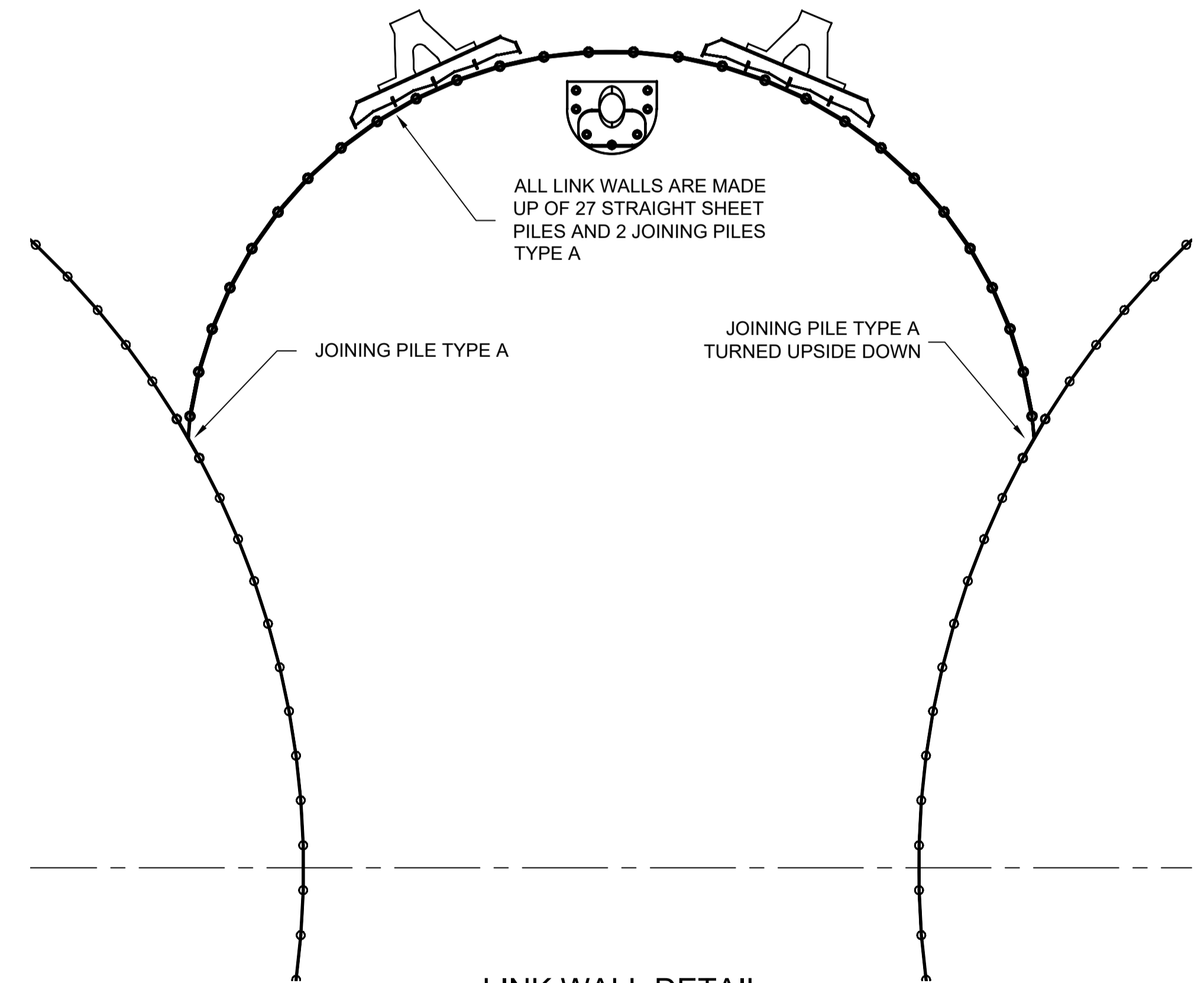
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DESIGN CHECK	Roy Scott
DRAWN BY	Luke Rzepka
DRAWING CHECK	S Blanchard
REGISTERED PROFESSIONAL	Peter Moodie
REGISTRATION	RPEQ
SIGNATURE	<i>[Signature]</i>
NUMBER	3313
DATE	17.06.22



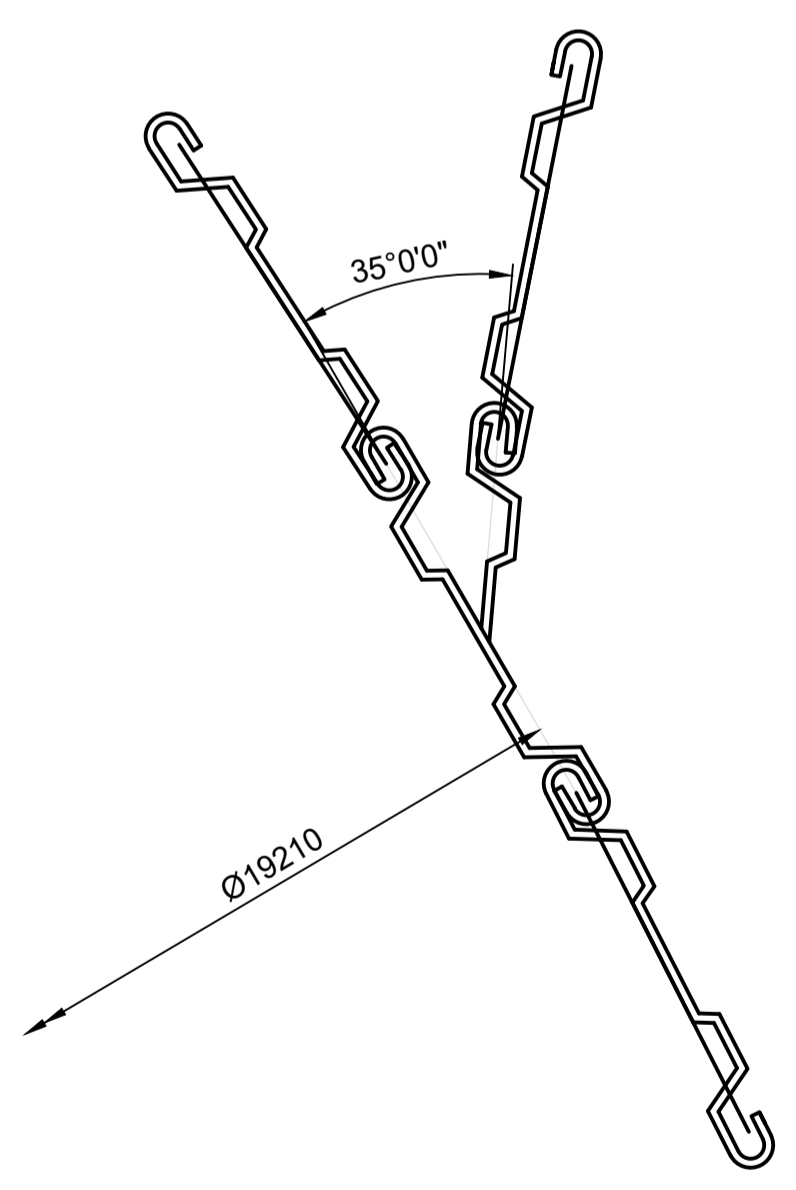
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DRAWING TITLE STAGE 1 WORKS - STRUCTURAL CELL SET OUT	
SCALE As Noted	DRAWING NUMBER 0888-K0115
REVISION 1	



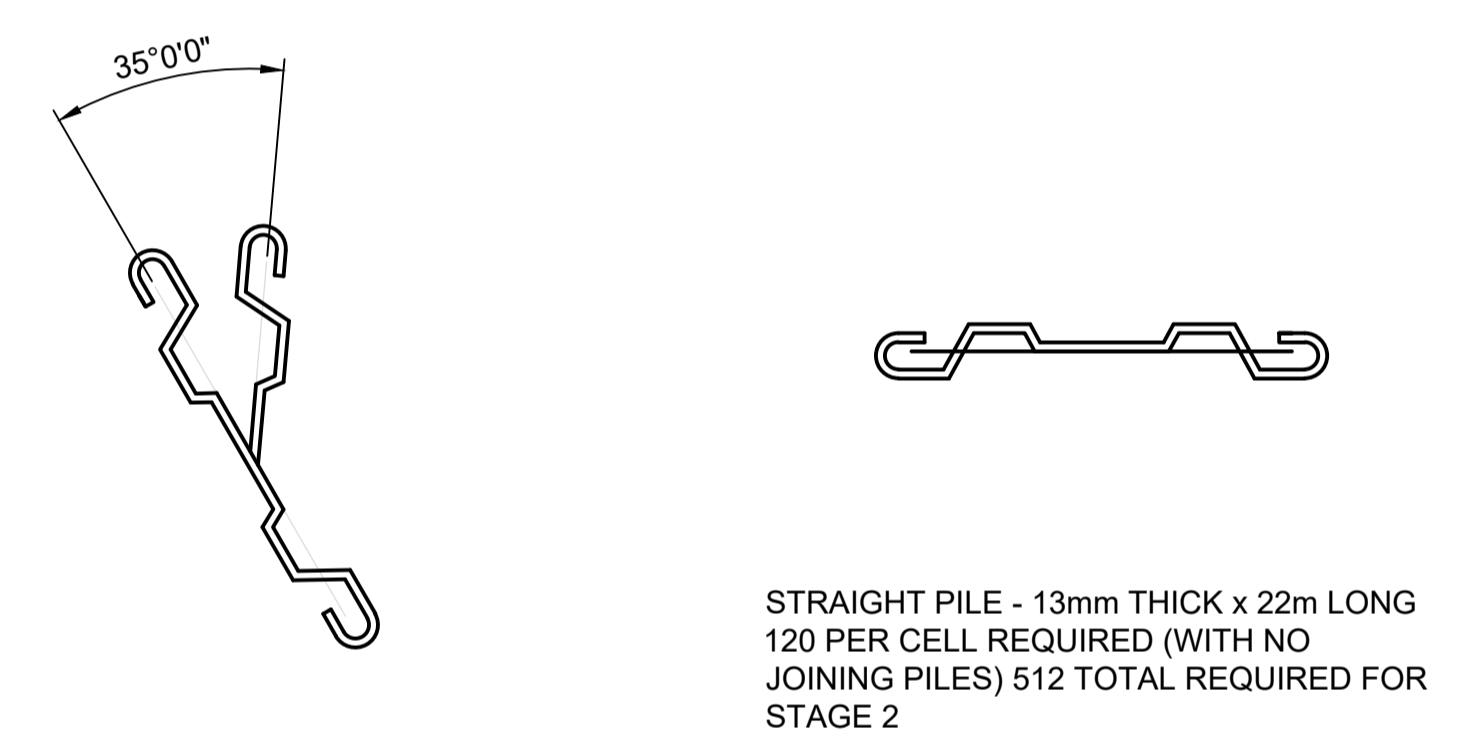
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LINK WALL DETAIL
 SCALE 1:50

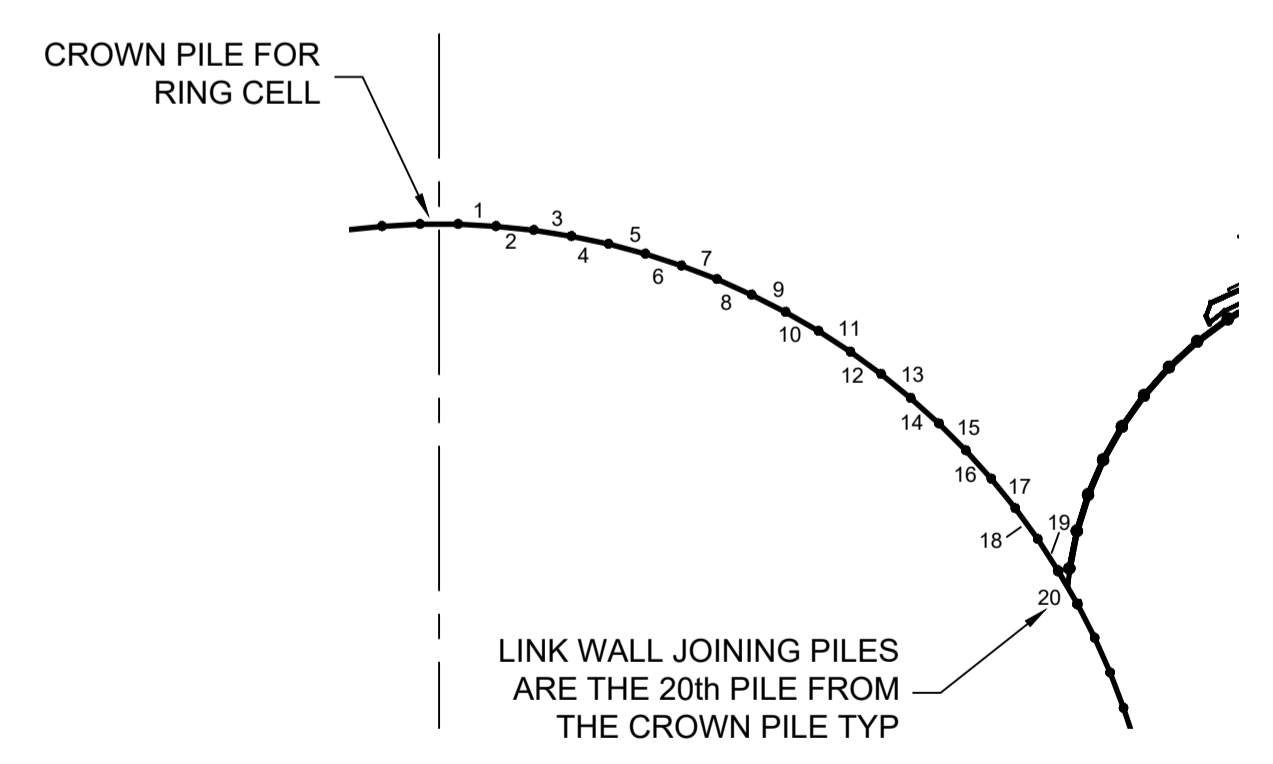


DETAIL 1
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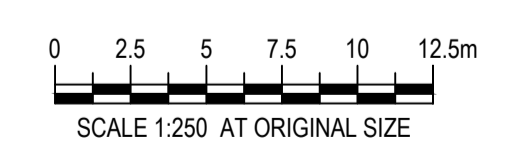
JOINT PILE TYPE A - 13mm THICK x 22m LONG
 10 TOTAL REQUIRED FOR STAGE 2

STRAIGHT PILE - 13mm THICK x 22m LONG
 120 PER CELL REQUIRED (WITH NO JOINING PILES) 512 TOTAL REQUIRED FOR STAGE 2



JOINT PILE LOCATION
 SCALE 1:100

NOTE:
 1. ALL LEVELS RELATIVE TO LAT.



REV	DATE	DESCRIPTION	BY	REVIEWED	APPROVED
0	09.06.22	ISSUED FOR CONSTRUCTION	SB	RJH	PM

Kramer Ausenco
 ENGINEERS & PROJECT MANAGERS

SURVEY BY		CLIENT	
DATE			
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VERT. DATUM			

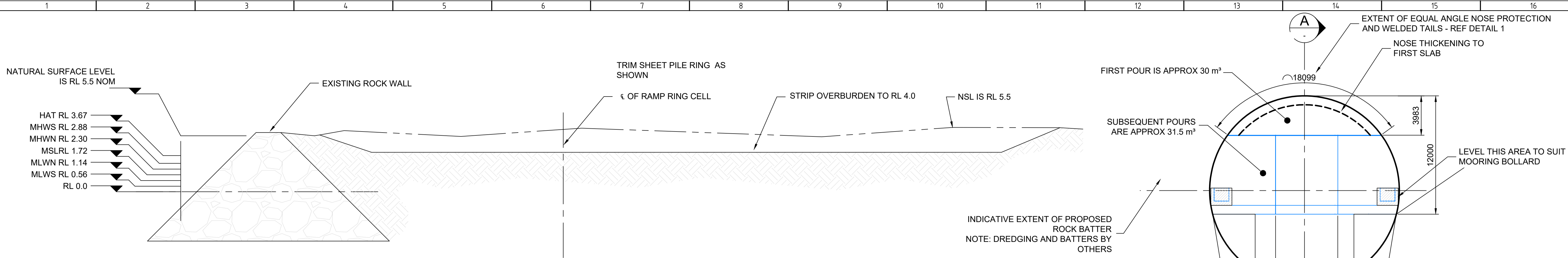
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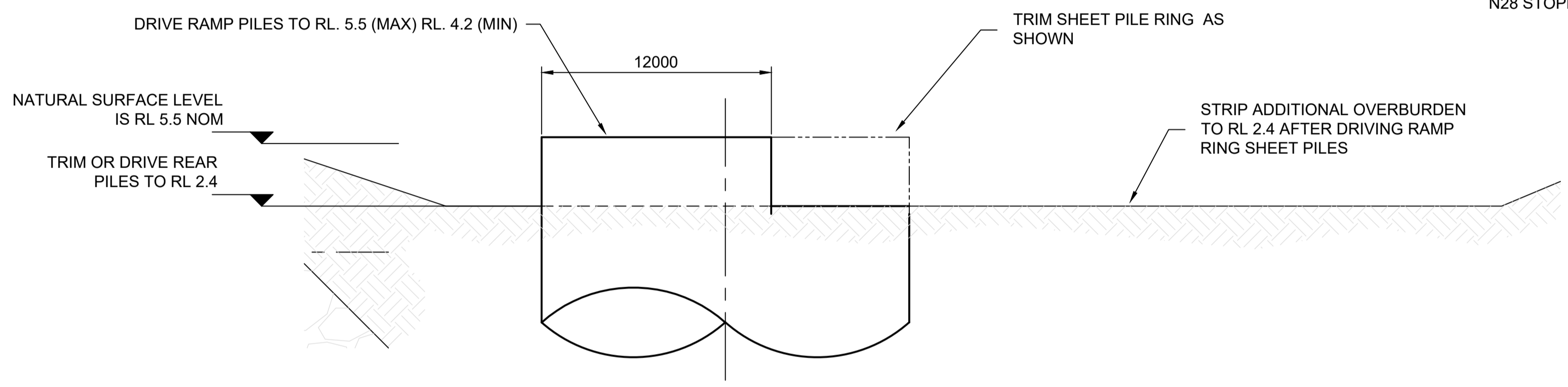
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DESIGN CHECK	Roy Scott
DRAWN BY	Luke Rzepka
DRAWING CHECK	S Blanchard
REGISTERED PROFESSIONAL	Peter Moodie
REGISTRATION	RPEQ
SIGNATURE	<i>P. Moodie</i>
NUMBER	3313
DATE	17.06.22

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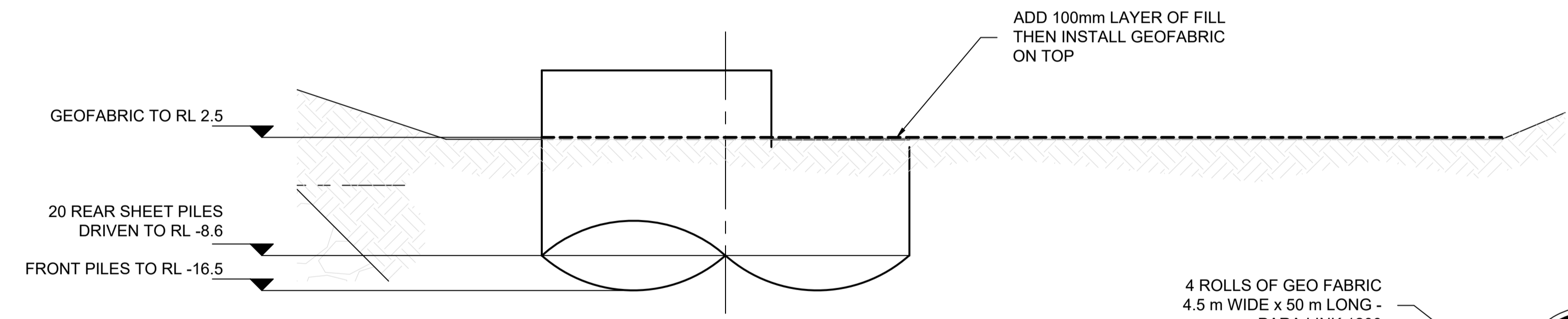
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		MARINE INDUSTRY SITE, STAGE 2	
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		CELL SET OUT	
SCALE	As Noted	DRAWING NUMBER	0888-K0116
		REVISION	0



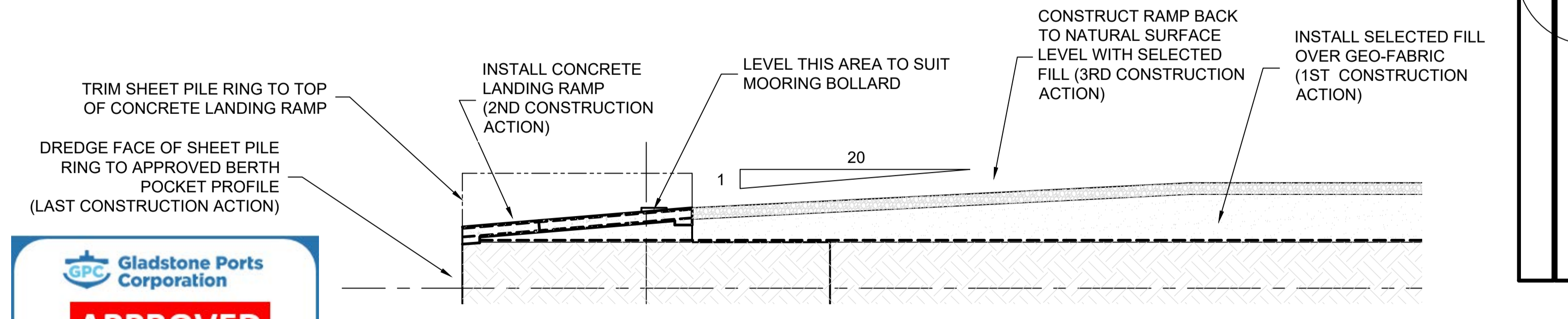
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SCALE 1:200



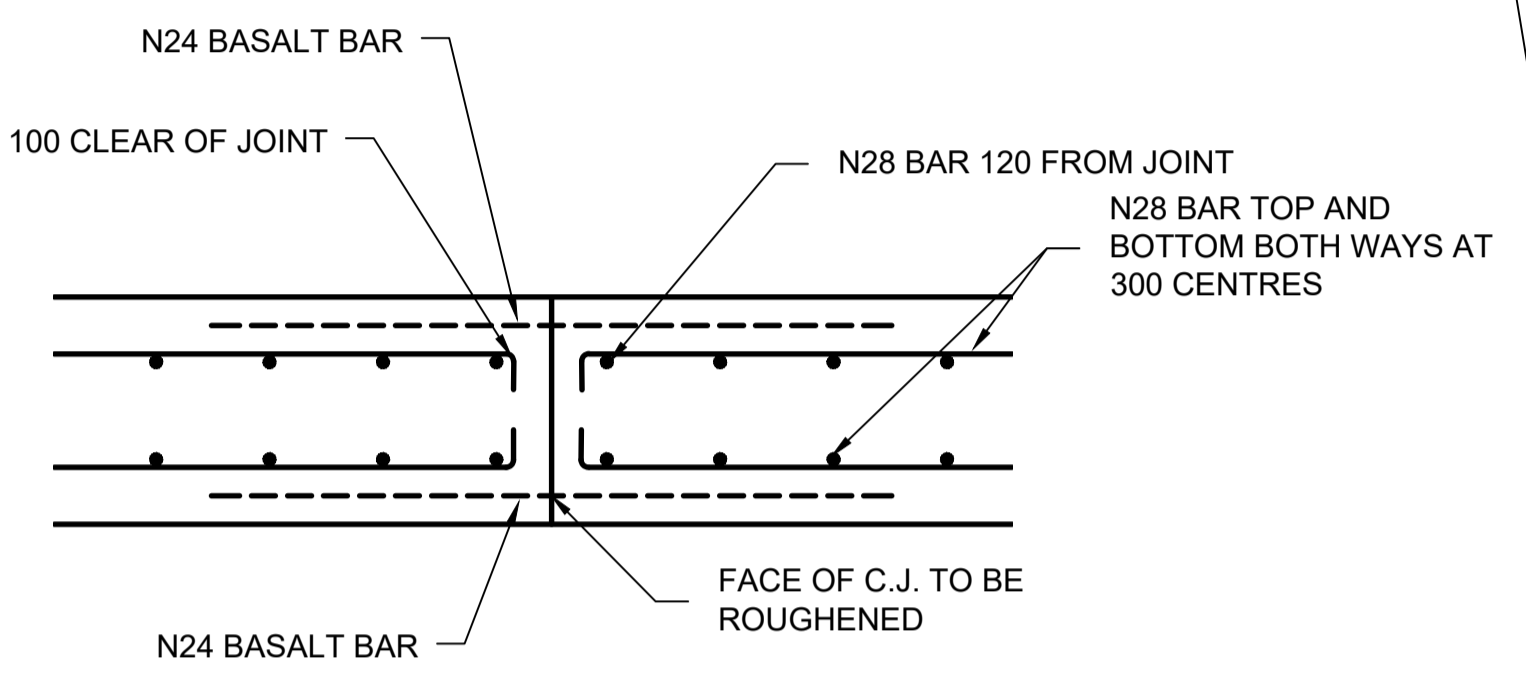
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SCALE 1:200



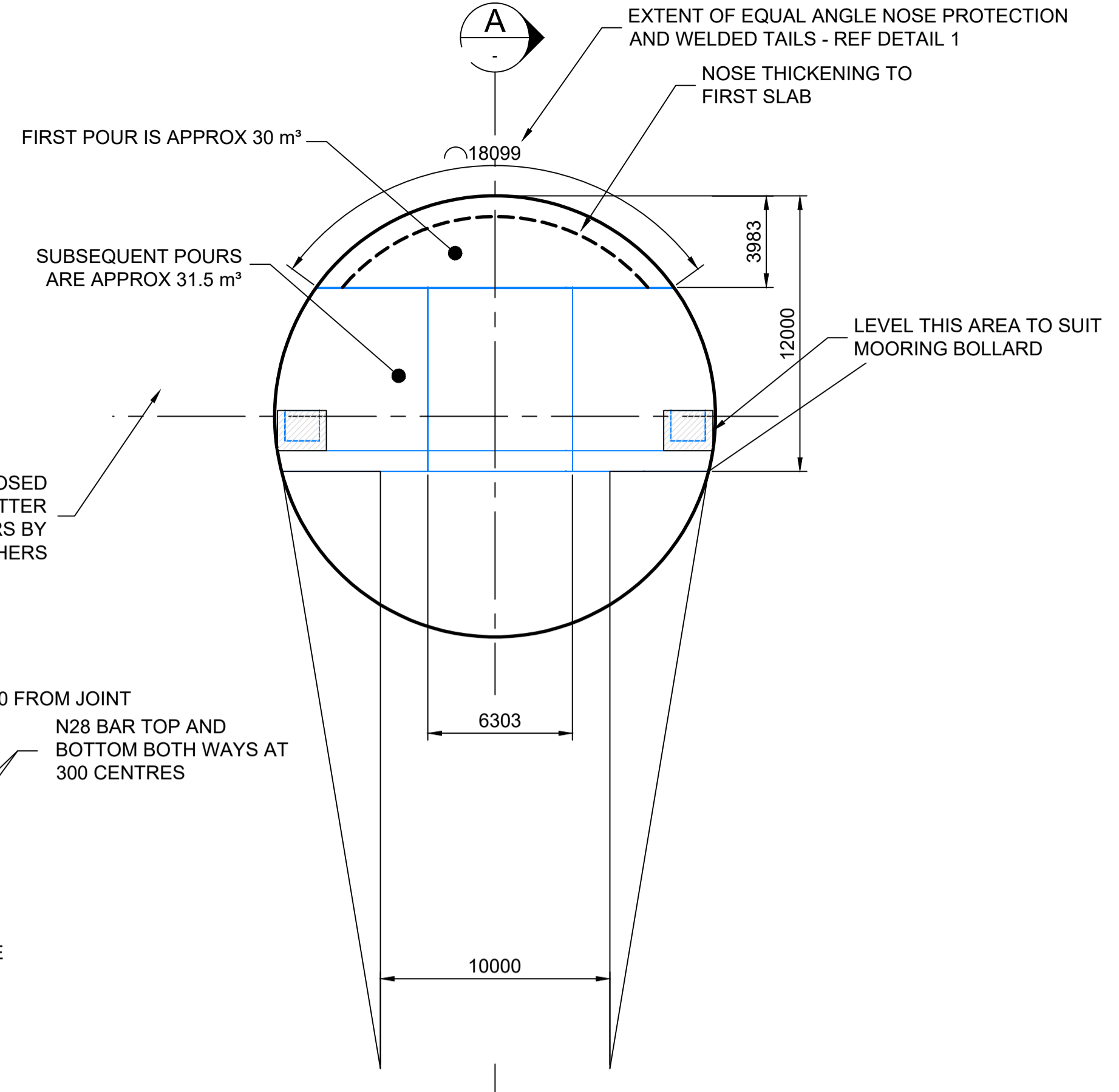
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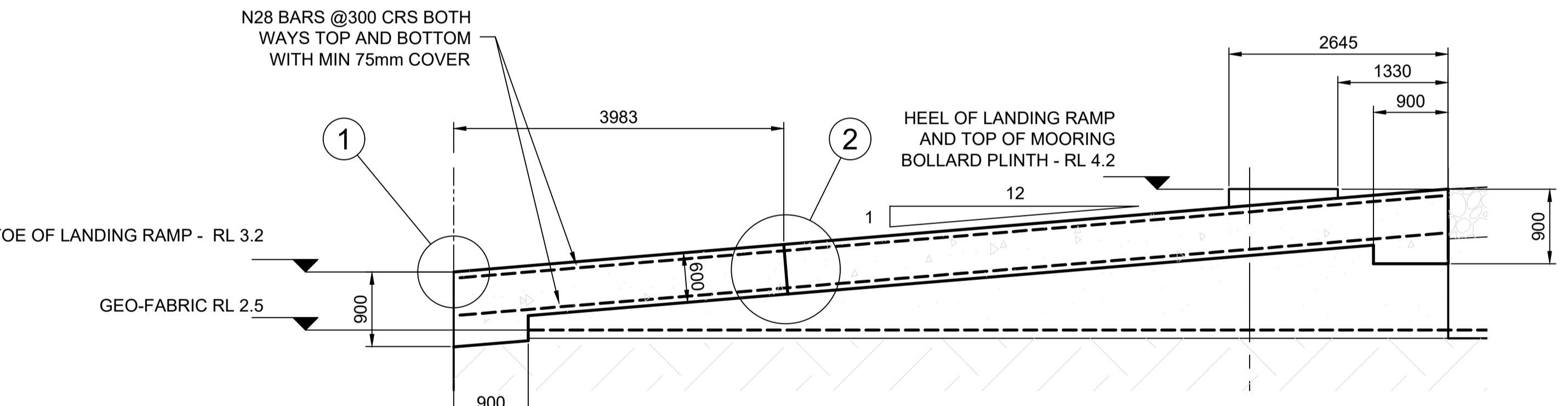
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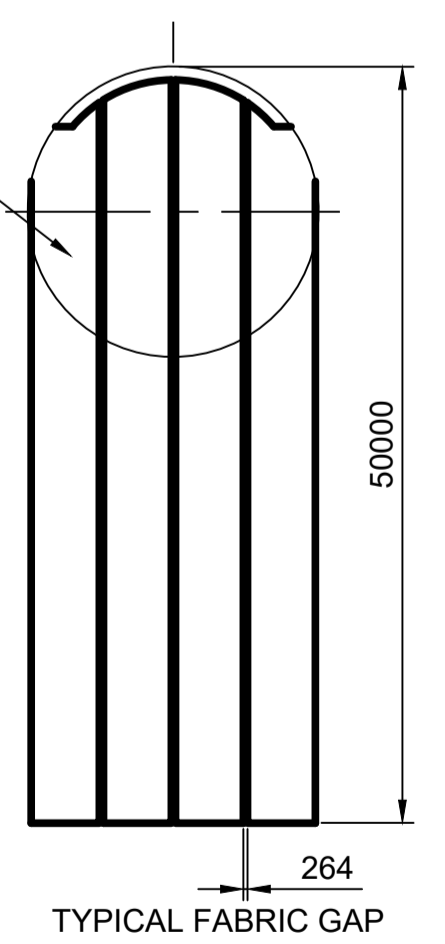
DETAIL 2
SCALE 1:20



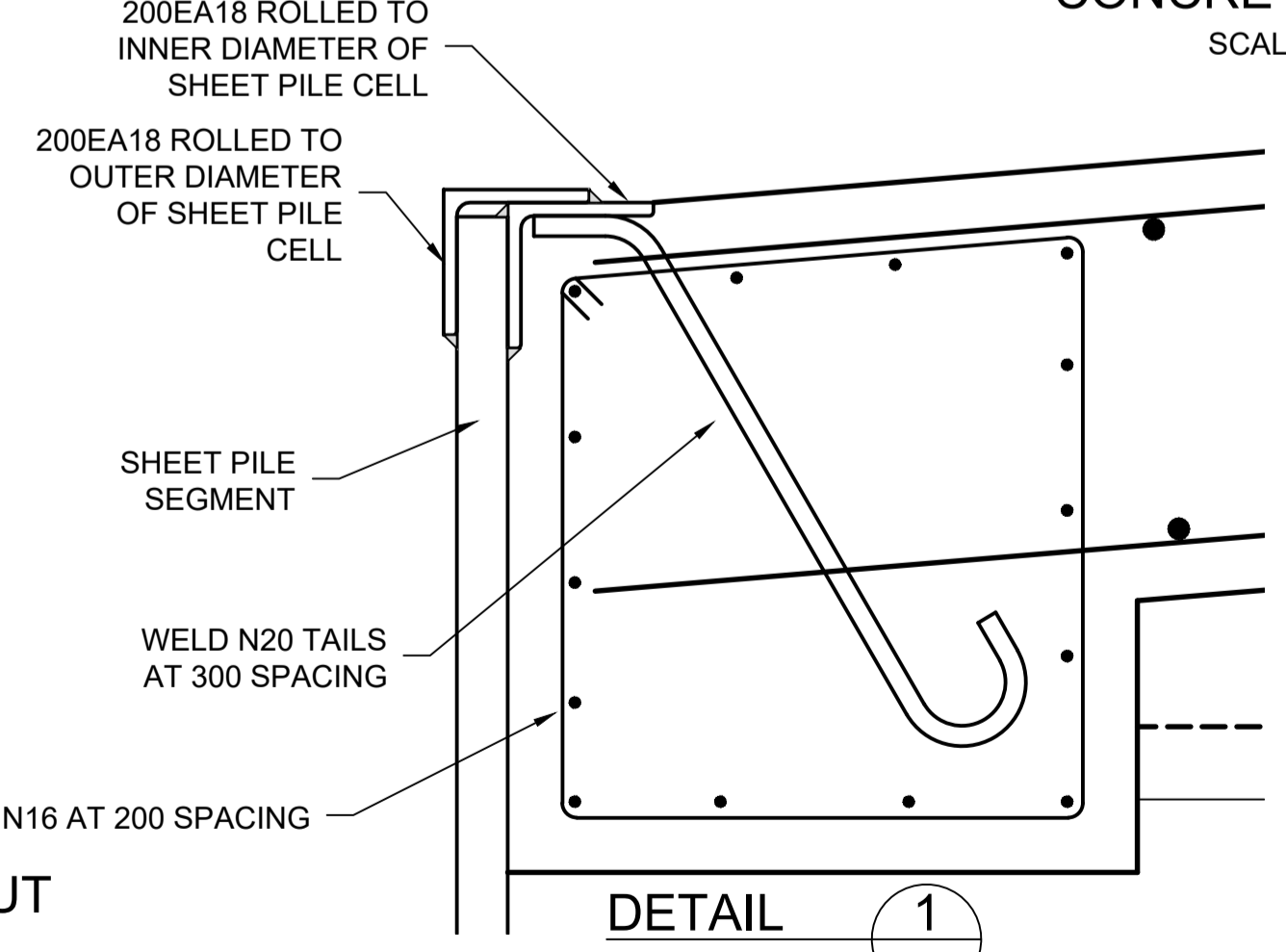
PLAN
SCALE 1:200



CONCRETE DETAIL
SCALE 1:50



RAMP GEO FABRIC LAYOUT
SCALE 1:500



DETAIL 1
SCALE 1:10

- NOTES:**
1. THE LANDING RAMP IS TO BE CONSTRUCTED FROM CONCRETE WITH THE FOLLOWING CHARACTERISTICS: COMPRESSIVE STRENGTH OF NOT LESS THAN 50 MPa WITH 650 MICROSTRAIN SHRINKAGE AND 120 mm SLUMP.
 2. ALL POURS NEED TO BE A MINIMUM THICKNESS OF 600 mm.
 3. ALL JOINTS BETWEEN POURS TO HAVE Ø24 mm BASALT BARS LAPPED TO TRUNCATED N28 STEEL BARS. 900mm OF BASALT BAR PENETRATION INTO EACH SLAB. N28 BARS TERMINATE 100mm CLEAR FROM EDGE PERPENDICULAR AND 120mm FOR PARALLEL JOINT.
 4. STAGE 1 GEOTECHNICAL 3D MODEL REVIEWED TO THE SATISFACTION OF THE STRUCTURAL ENGINEER PRIOR TO DRIVING OF PILES FOR STAGE 1
 5. ALL LEVELS RELATIVE TO LAT.

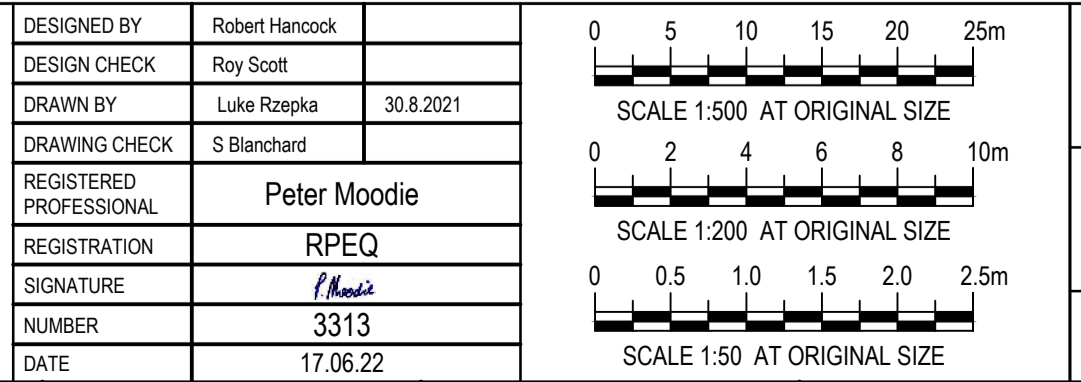


REV	DATE	DESCRIPTION	BY	REVIEWED	APPROVED
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0	22.12.21	ISSUED FOR CONSTRUCTION			

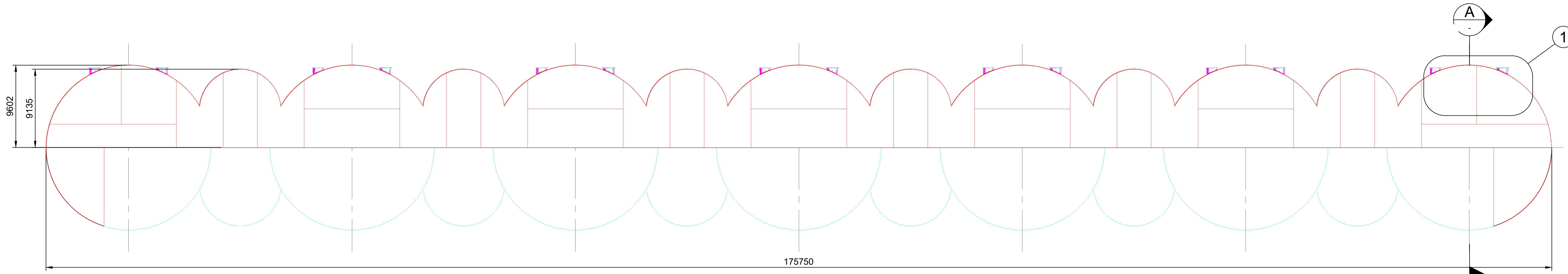
Kramer Ausenco
ENGINEERS & PROJECT MANAGERS

CONTRACTOR: Pacific Marine Base
SHIP REPAIR | BARGING | PROJECT SUPPORT

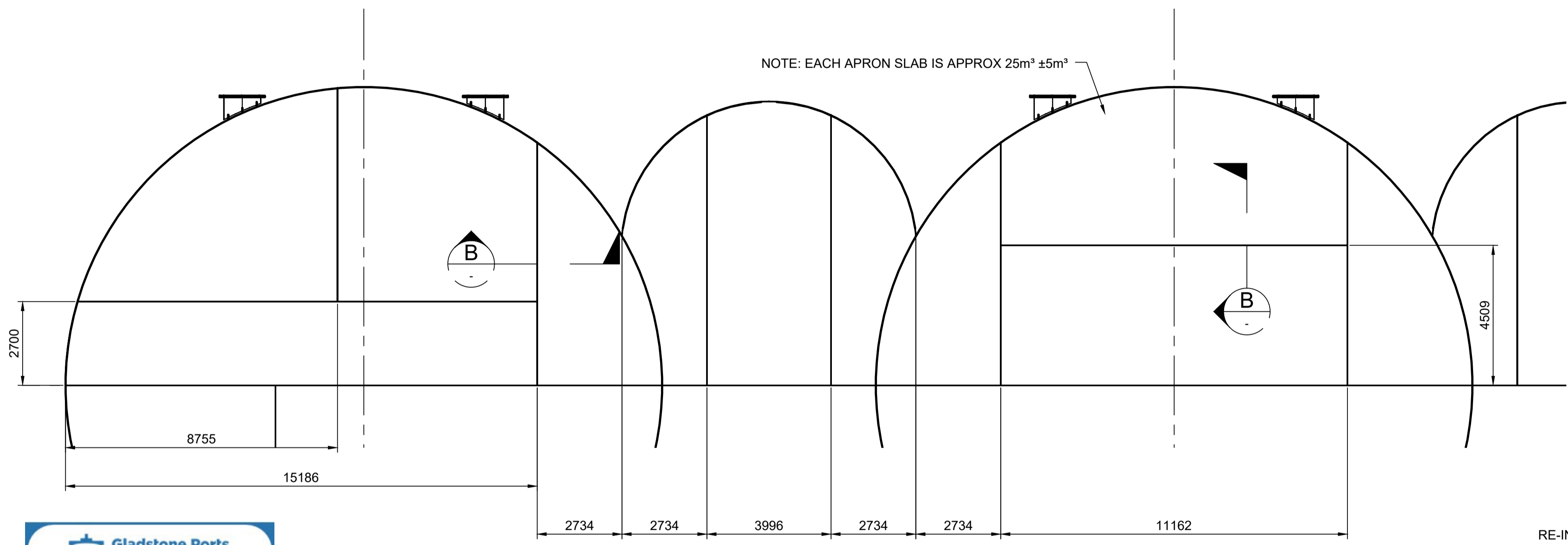
DESIGNED BY: Robert Hancock
DESIGN CHECK: Roy Scott
DRAWN BY: Luke Rzepka 30.8.2021
DRAWING CHECK: S Blanchard
REGISTERED PROFESSIONAL: Peter Moodie
REGISTRATION: RPEQ
SIGNATURE: [Signature]
NUMBER: 3313
DATE: 17.06.22



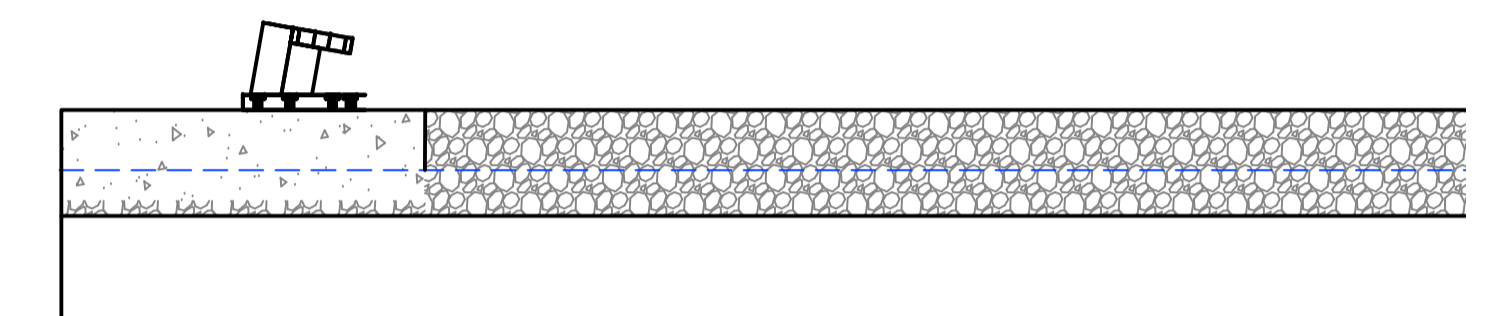
PROJECT NAME: PACIFIC MARINE BASE BUNDABERG
MARINE INDUSTRY SITE, STAGE 1
DRAWING TITLE: STAGE 1 WORKS - STRUCTURAL RAMP DETAILS
SCALE: As Noted
DRAWING NUMBER: 0888-K0120
REVISION: 1



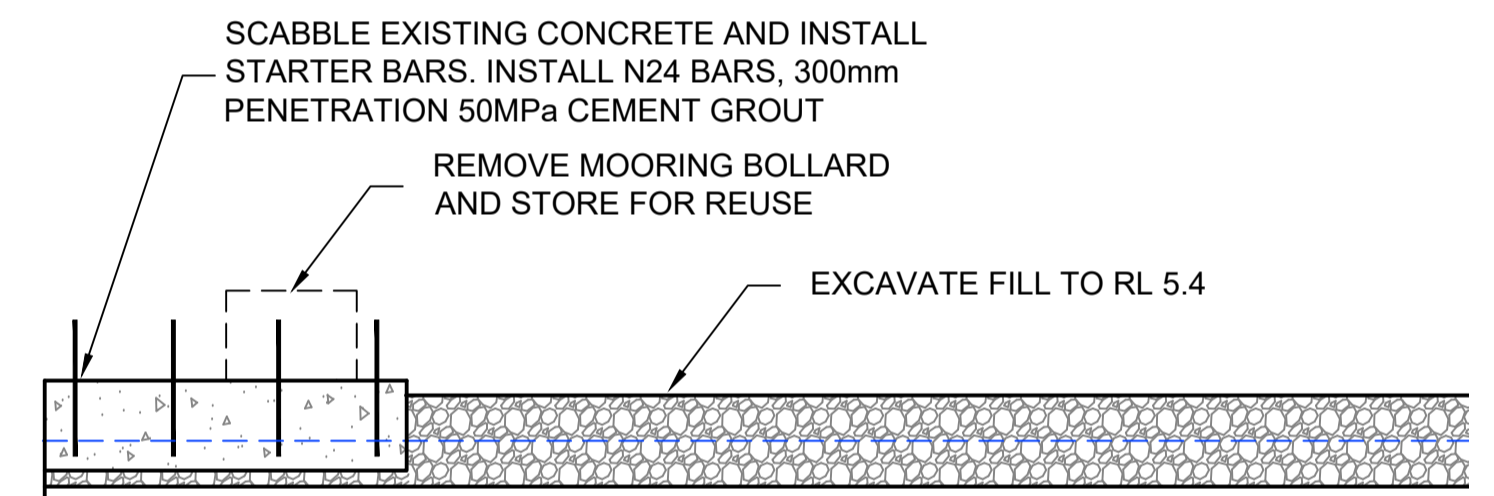
CONCRETE APRON SLAB LAYOUT
SCALE 1:250



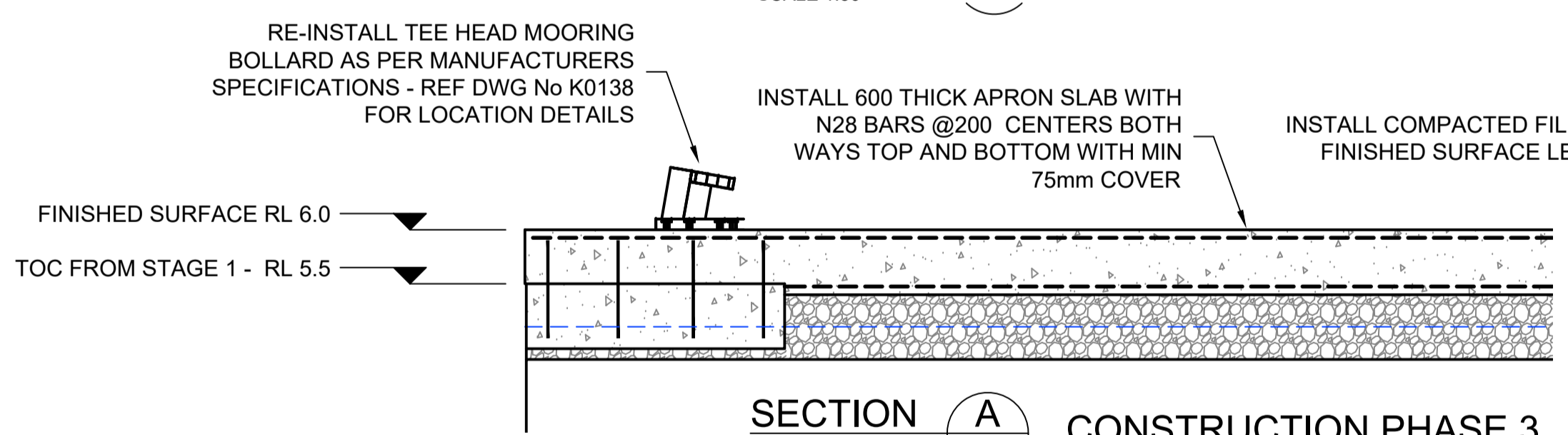
TYPICAL CONCRETE APRON SLAB SETOUT
SCALE 1:100



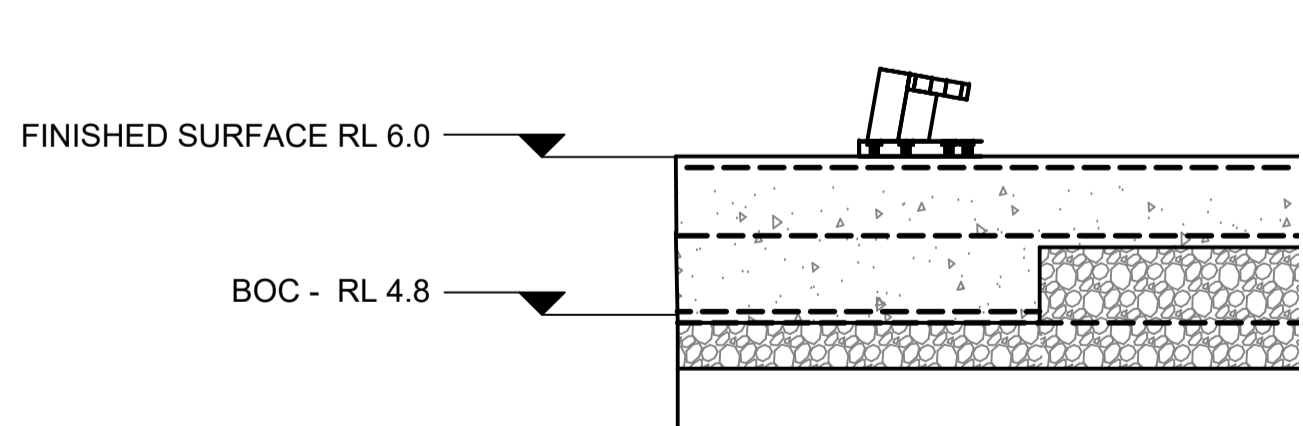
SECTION A AS BUILT FROM STAGE 1 WORKS 1
SCALE 1:50



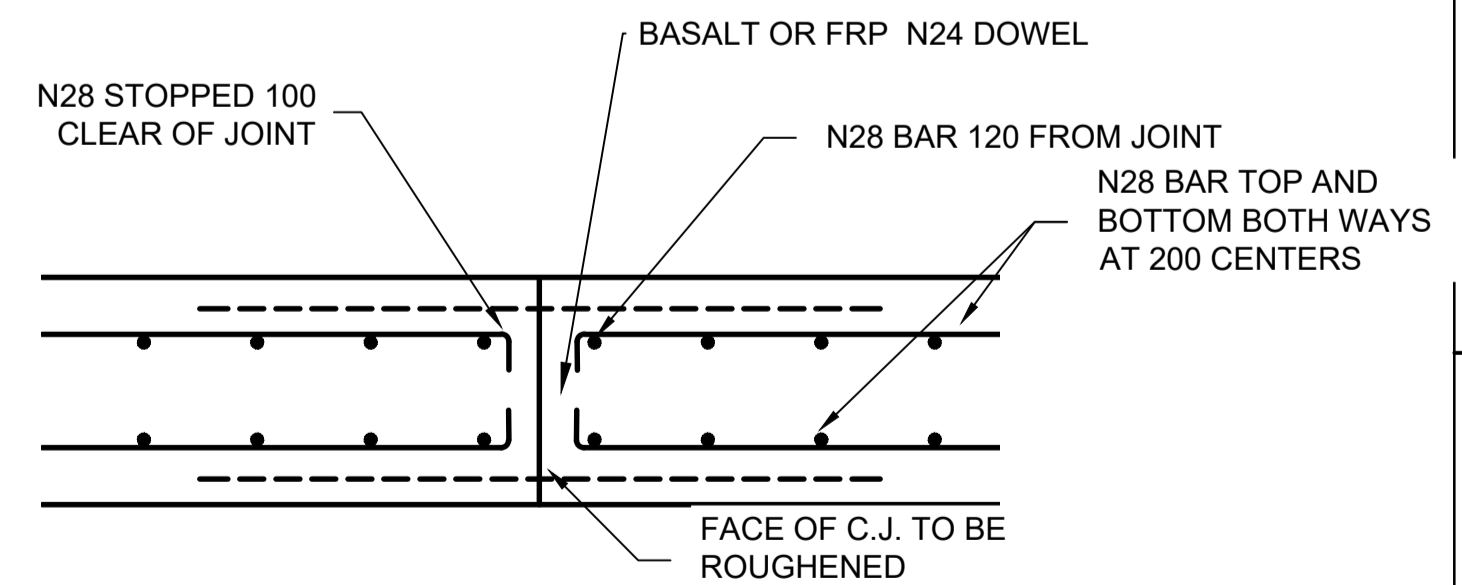
SECTION A CONSTRUCTION PHASE 2
SCALE 1:50



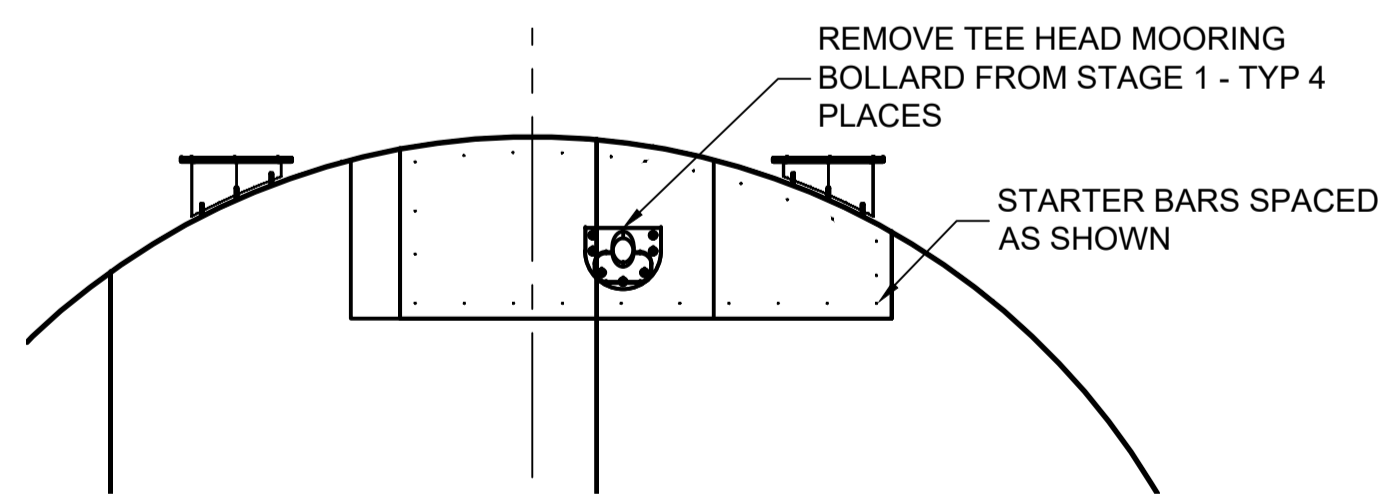
SECTION A CONSTRUCTION PHASE 3
SCALE 1:50



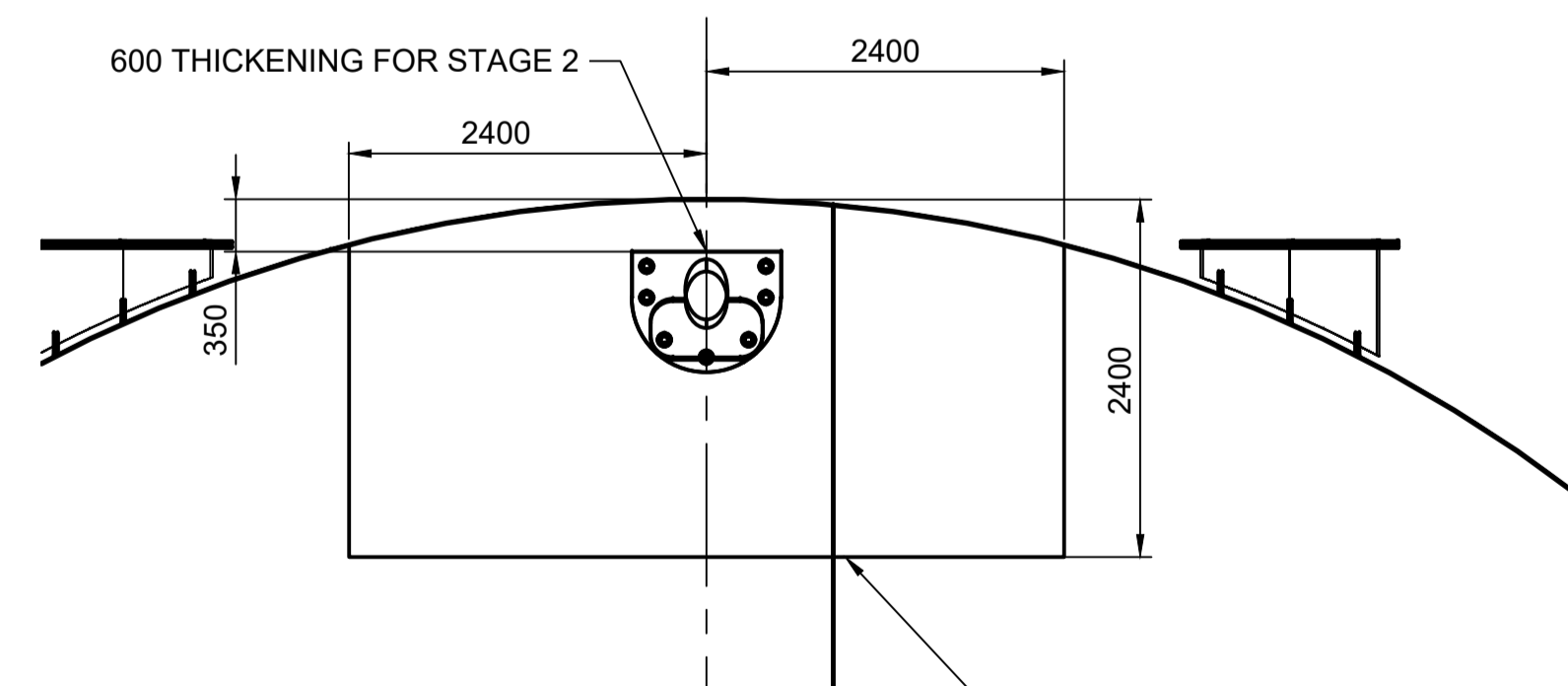
STAGE 2 SECTION A
SCALE 1:50



SECTION B
SCALE 1:20



STAGE 1 UPGRADE
DETAIL 1
SCALE 1:100



STAGE 2
DETAIL 2
SCALE 1:50



NOTES:
1. ALL LEVELS RELATIVE TO LAT.

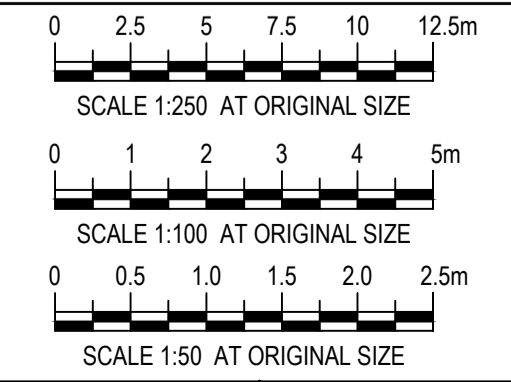
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A		ISSUED FOR CLIENT REVIEW			

Kramer Ausenco
ENGINEERS & PROJECT MANAGERS

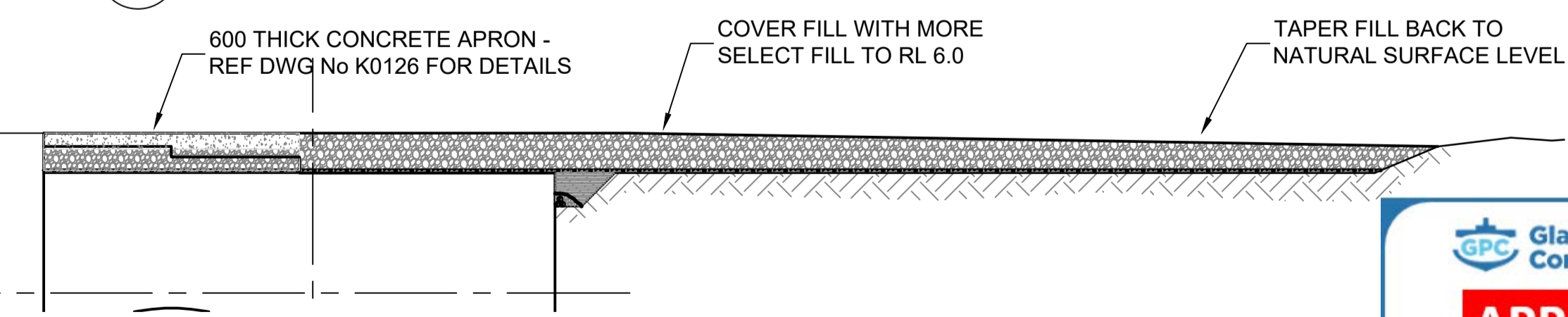
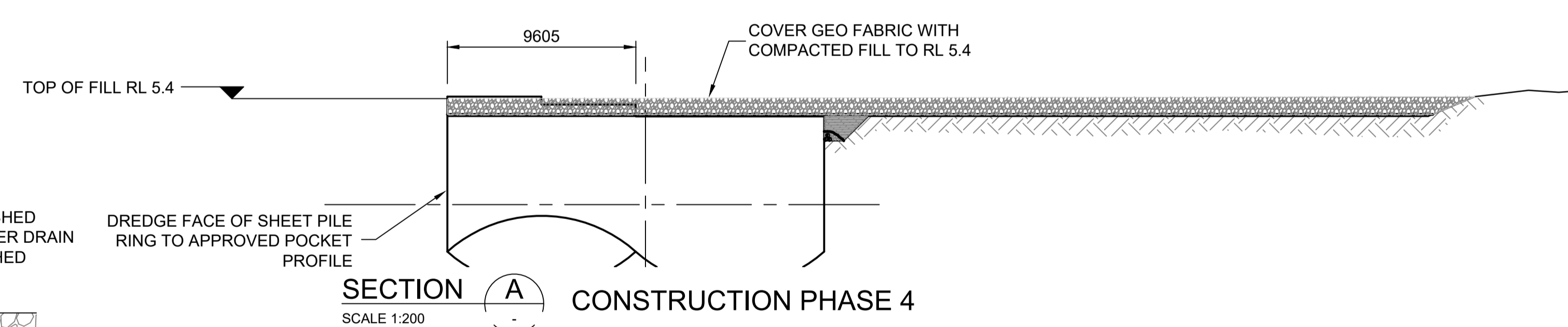
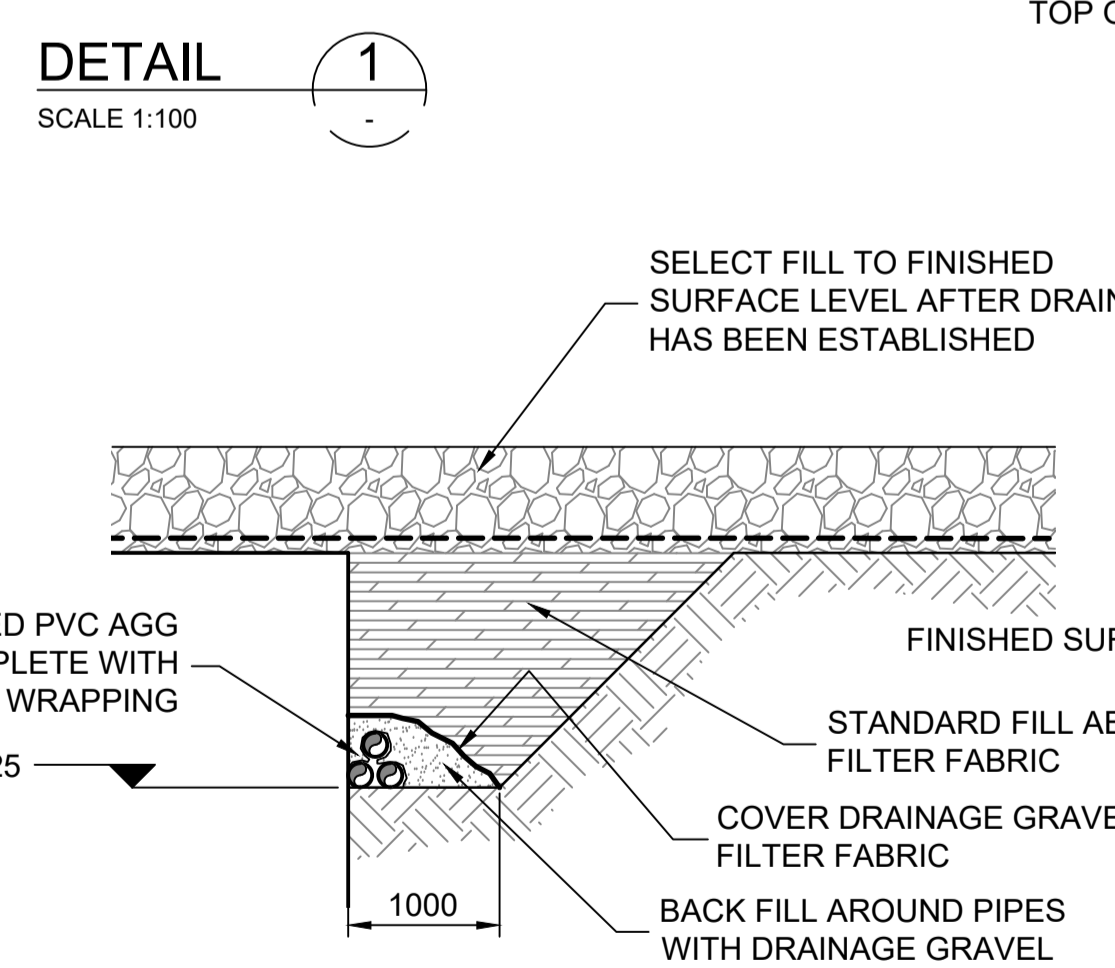
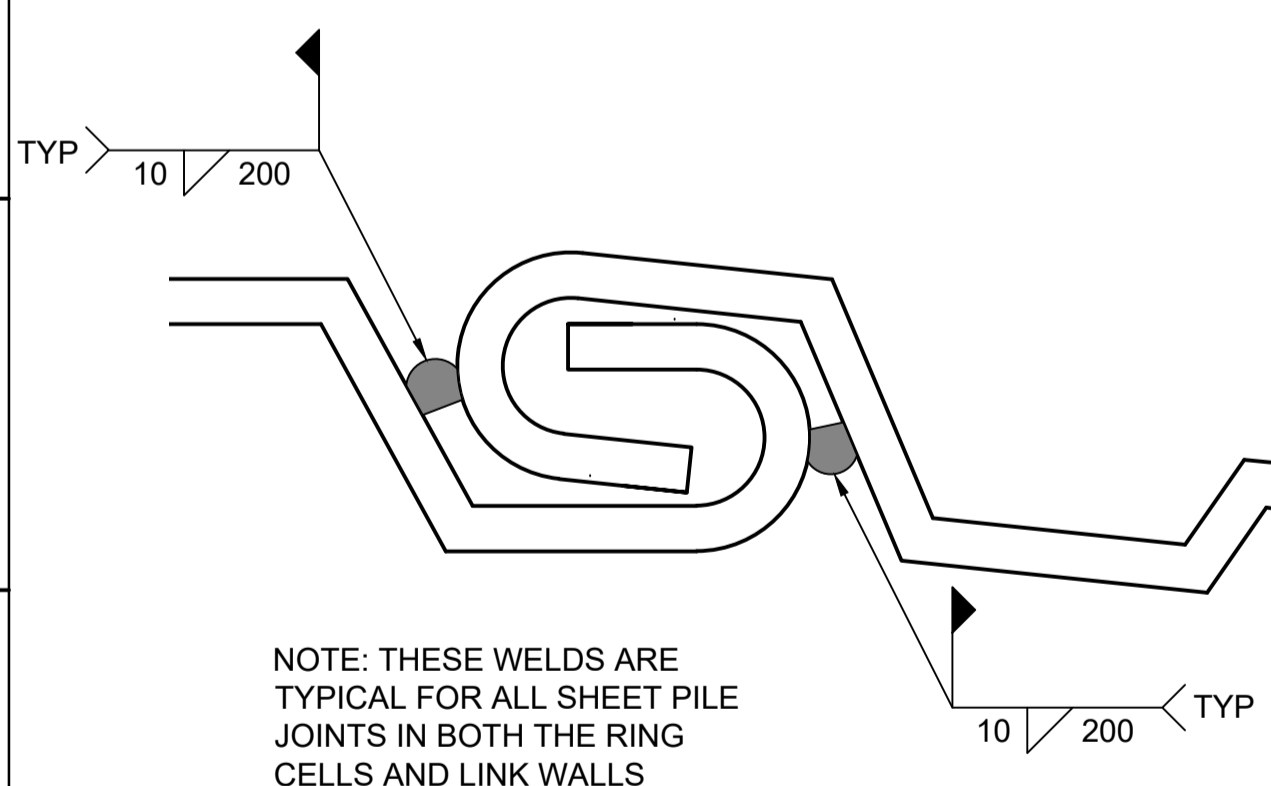
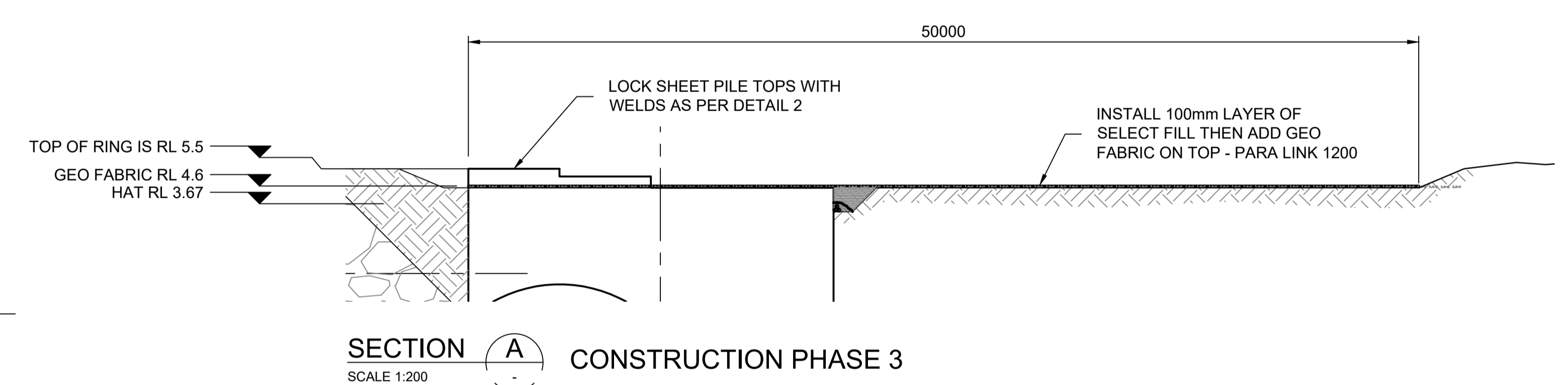
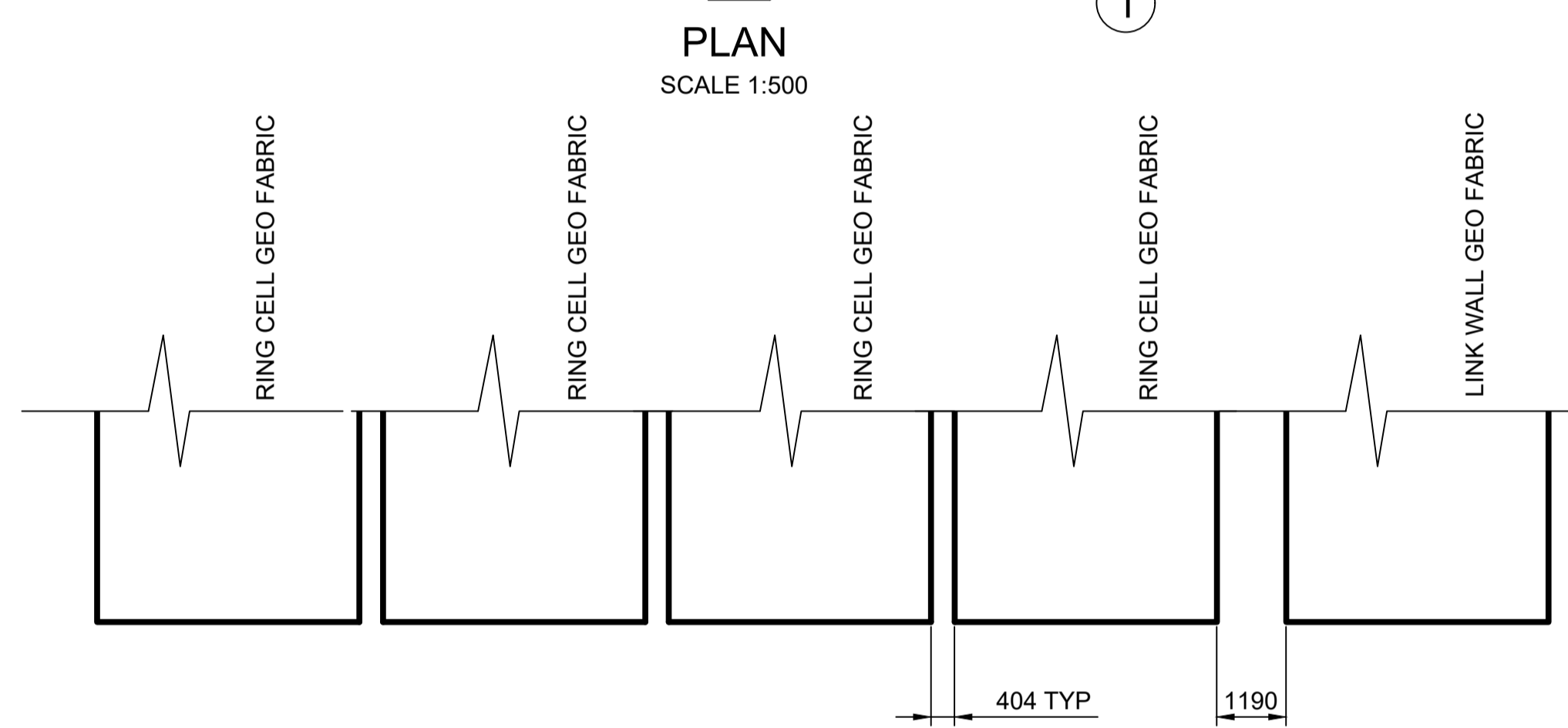
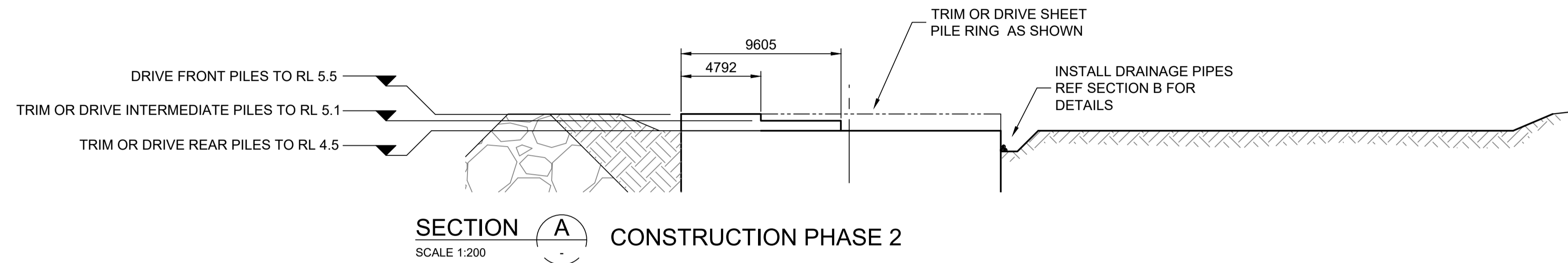
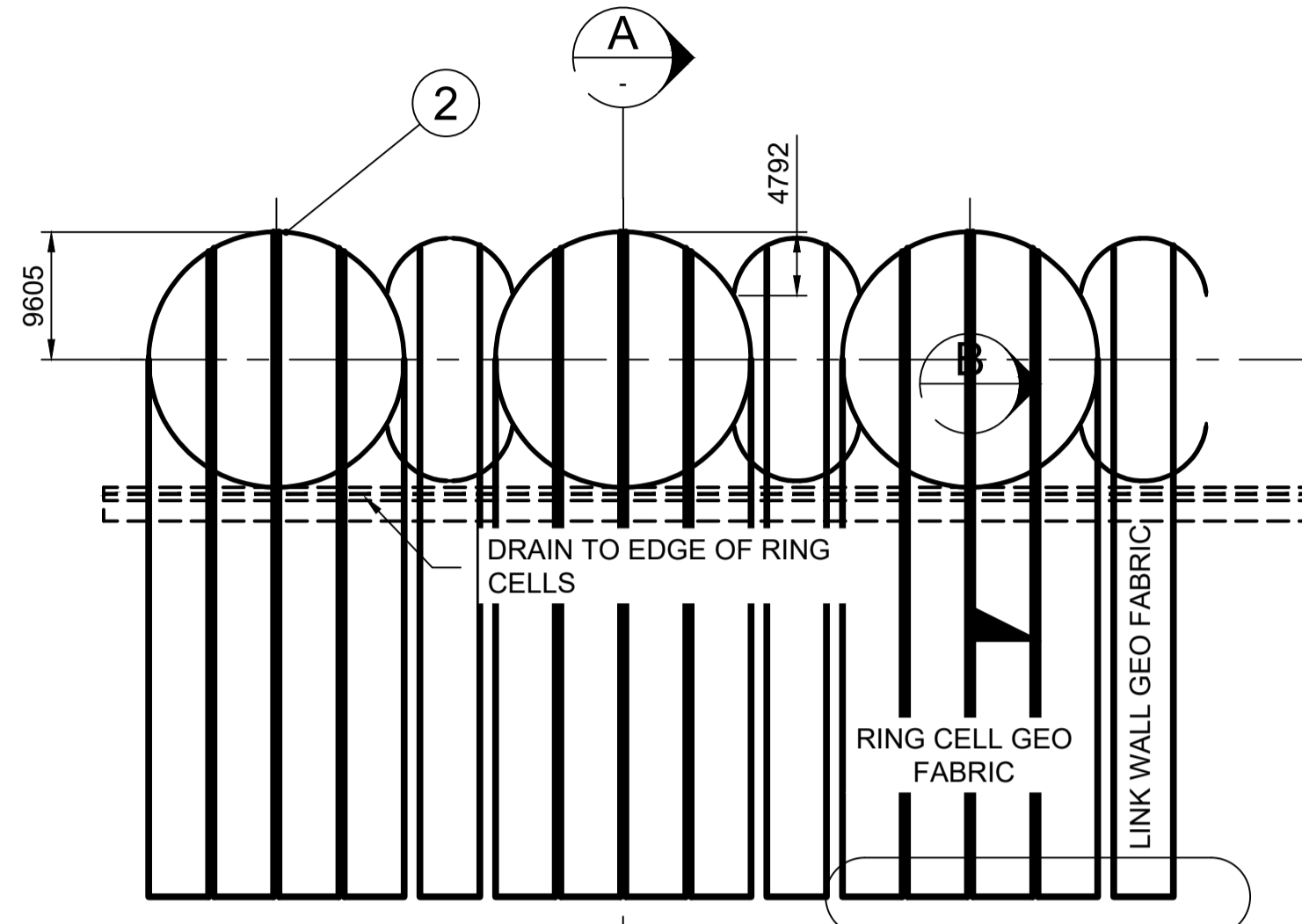
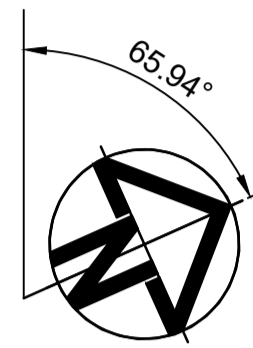
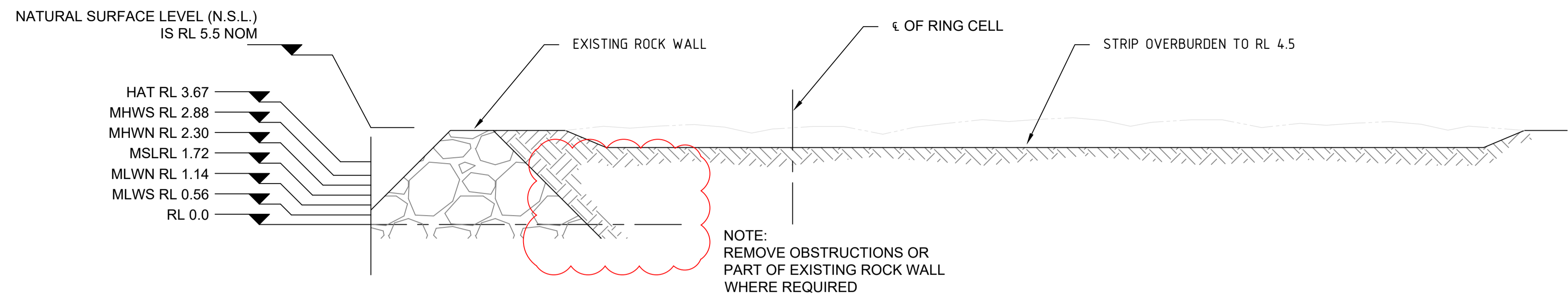
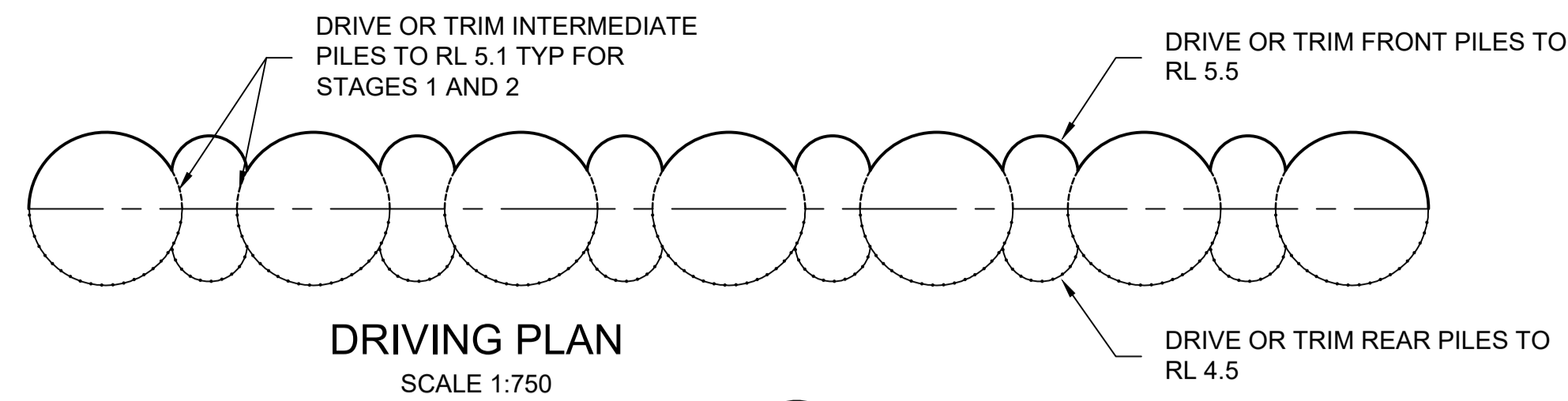
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DESIGNED BY	Robert Hancock
DESIGN CHECK	Roy Scott
DRAWN BY	Luke Rzepka
DRAWING CHECK	S Blanchard
REGISTERED PROFESSIONAL	Peter Moodie
REGISTRATION	RPEQ
SIGNATURE	<i>P. Moodie</i>
NUMBER	3313
DATE	17.06.22



PROJECT NAME	PACIFIC MARINE BASE BUNDABERG	
	MARINE INDUSTRY SITE, STAGE 2	
DRAWING TITLE	STAGE 2 WORKS - STRUCTURAL CONCRETE DETAILS	
SCALE	As Noted	DRAWING NUMBER 0888-K0126
REVISION	0	



NOTES:
1. ALL LEVELS RELATIVE TO LAT.



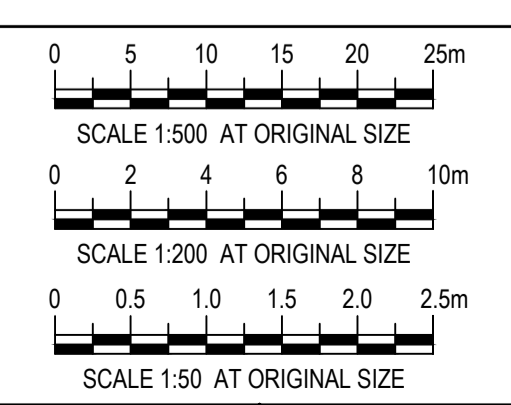
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A		ISSUED FOR CLIENT REVIEW			

Kramer Ausenco
ENGINEERS & PROJECT MANAGERS

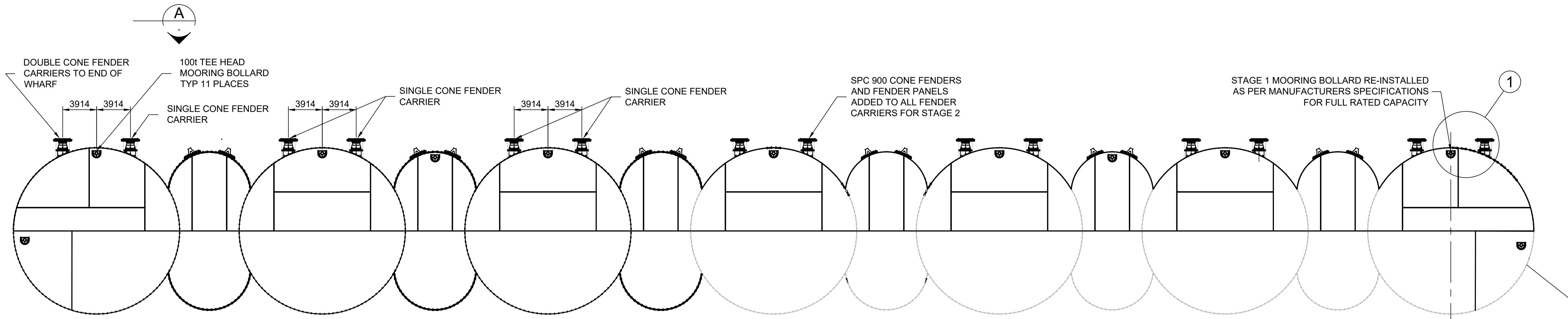
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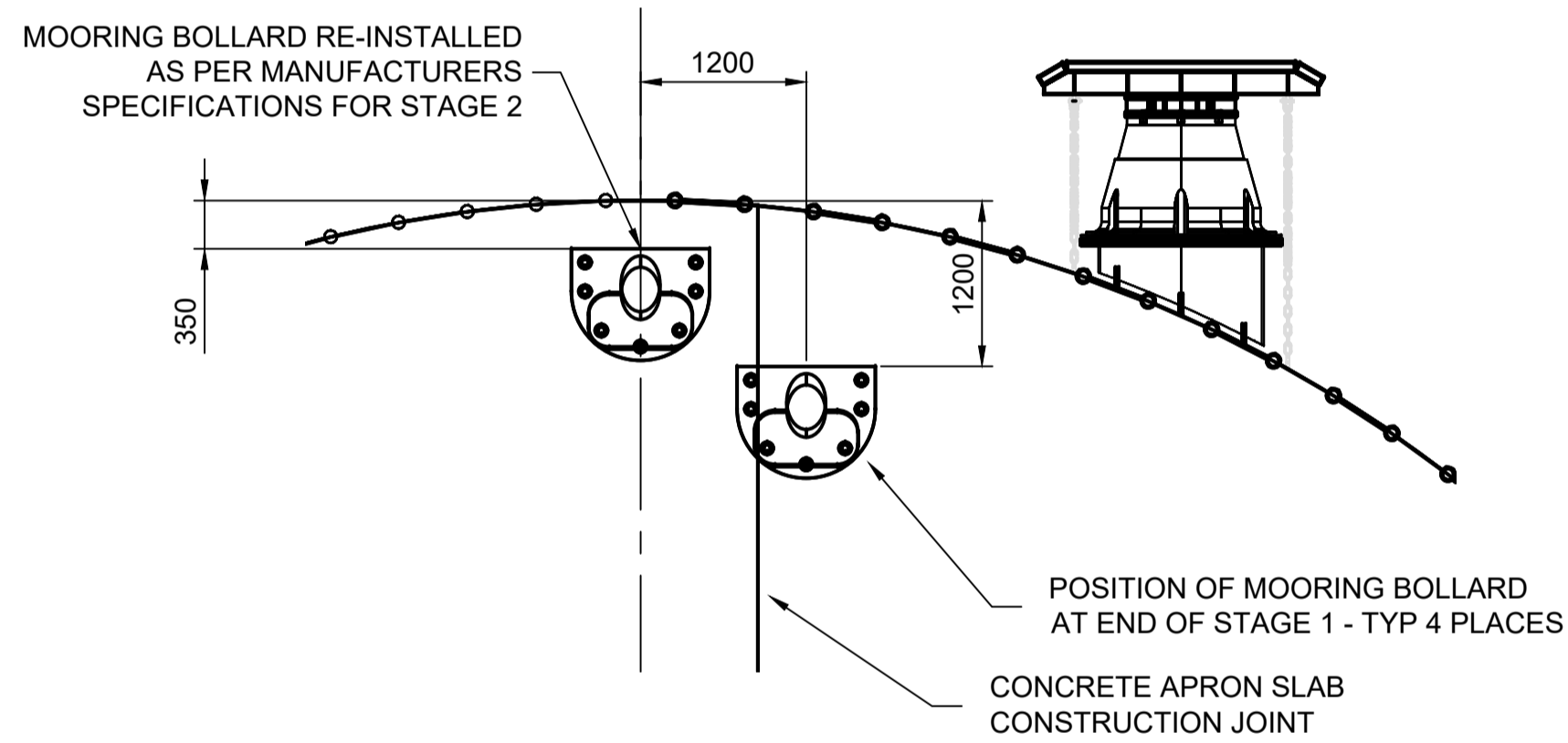
DESIGNED BY: Robert Hancock
DESIGN CHECK: Roy Scott
DRAWN BY: Luke Rzepka 30.8.2921
DRAWING CHECK: S Blanchard
REGISTERED PROFESSIONAL: Peter Moodie
SIGNATURE: RPEQ
NUMBER: 3313
DATE: 17.06.22



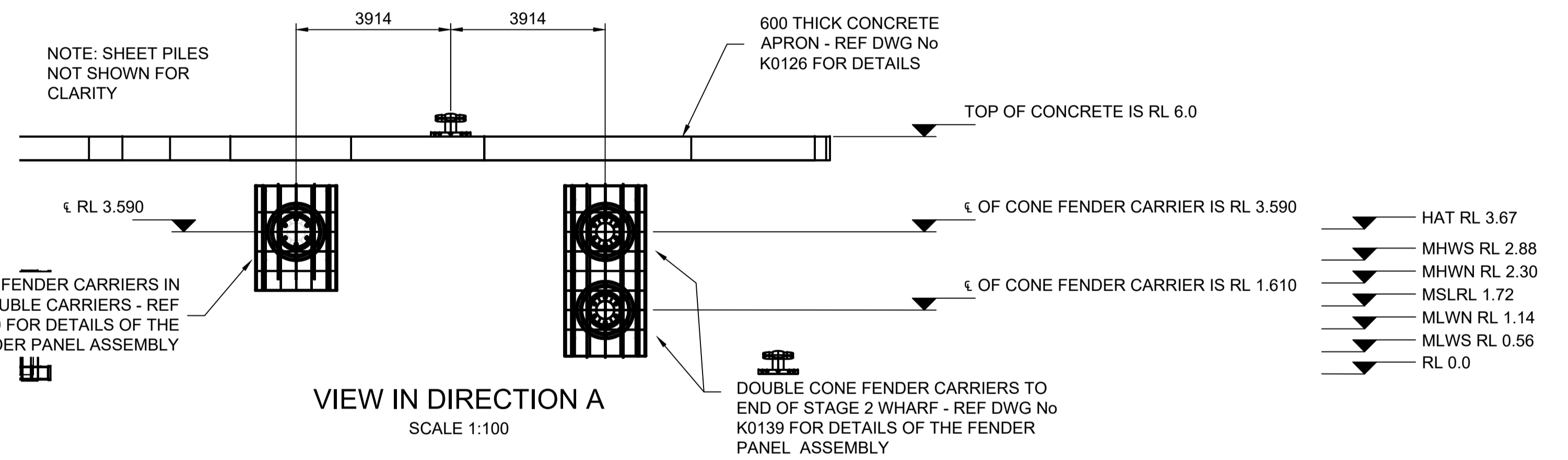
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SCALE As Noted	DRAWING NUMBER 0888-K0127	



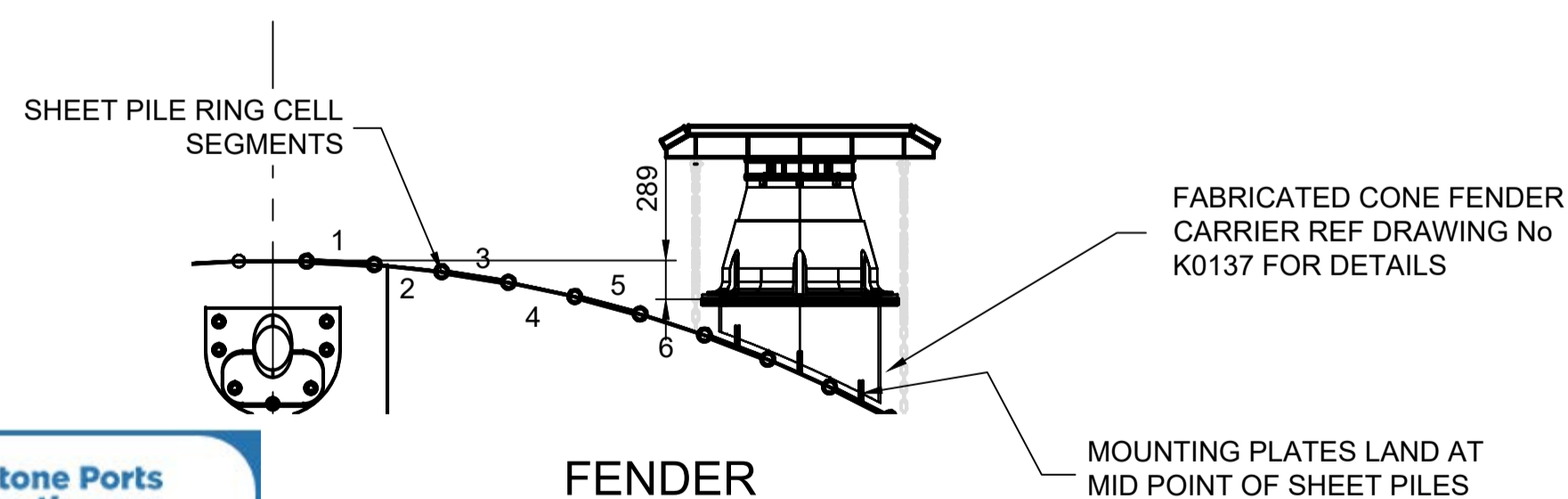
LAYOUT PLAN
SCALE 1:200



DETAIL 1
SCALE 1:50



VIEW IN DIRECTION A
SCALE 1:100



FENDER CARRIER LOCATION PLAN
SCALE 1:50



NOTES

- 1. ALL LEVELS RELATIVE TO LAT.

REV	DATE	DESCRIPTION	BY	REVIEWED	APPROVED
0	16.06.22	ISSUED FOR CONSTRUCTION	SB	RJH	PM
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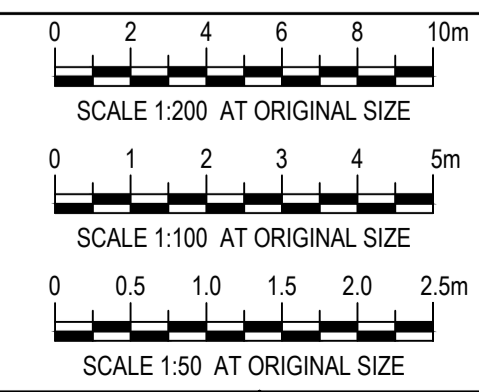
CONSULTANT
Kramer Ausenco
ENGINEERS & PROJECT MANAGERS

SURVEY BY		CLIENT	
DATE			
HORIZ. DATUM			
VERT. DATUM			

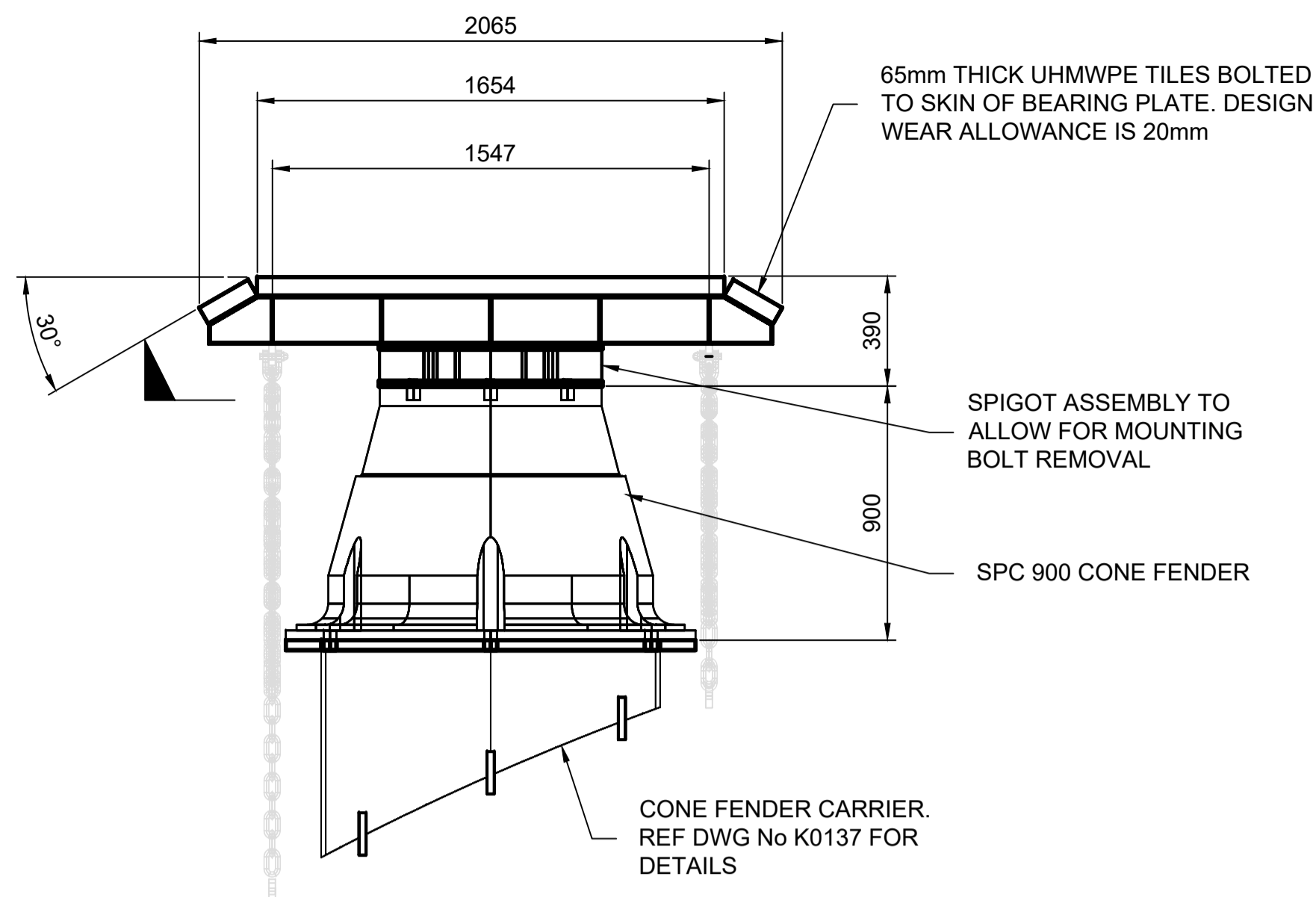
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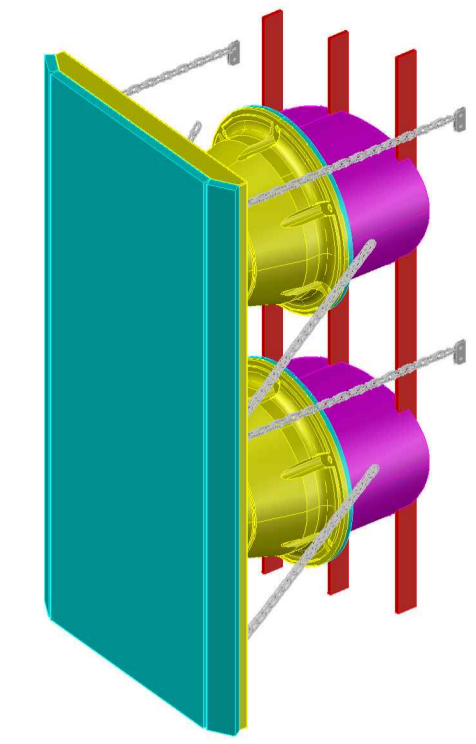
DESIGNED BY	Robert Hancock
DESIGN CHECK	Roy Scott
DRAWN BY	Luke Rzepka
DRAWING CHECK	S Blanchard
REGISTERED PROFESSIONAL	Peter Moodie
REGISTRATION NUMBER	RPEQ
SIGNATURE	<i>P. Moodie</i>
NUMBER	3313
DATE	17.06.22



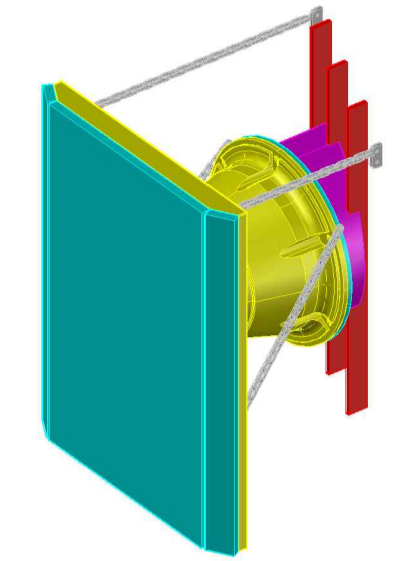
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DRAWING TITLE	STAGE 2 WORKS - STRUCTURAL FENDER AND BOLLARD LAYOUT
SCALE	As Noted
DRAWING NUMBER	0888-K0138
REVISION	0



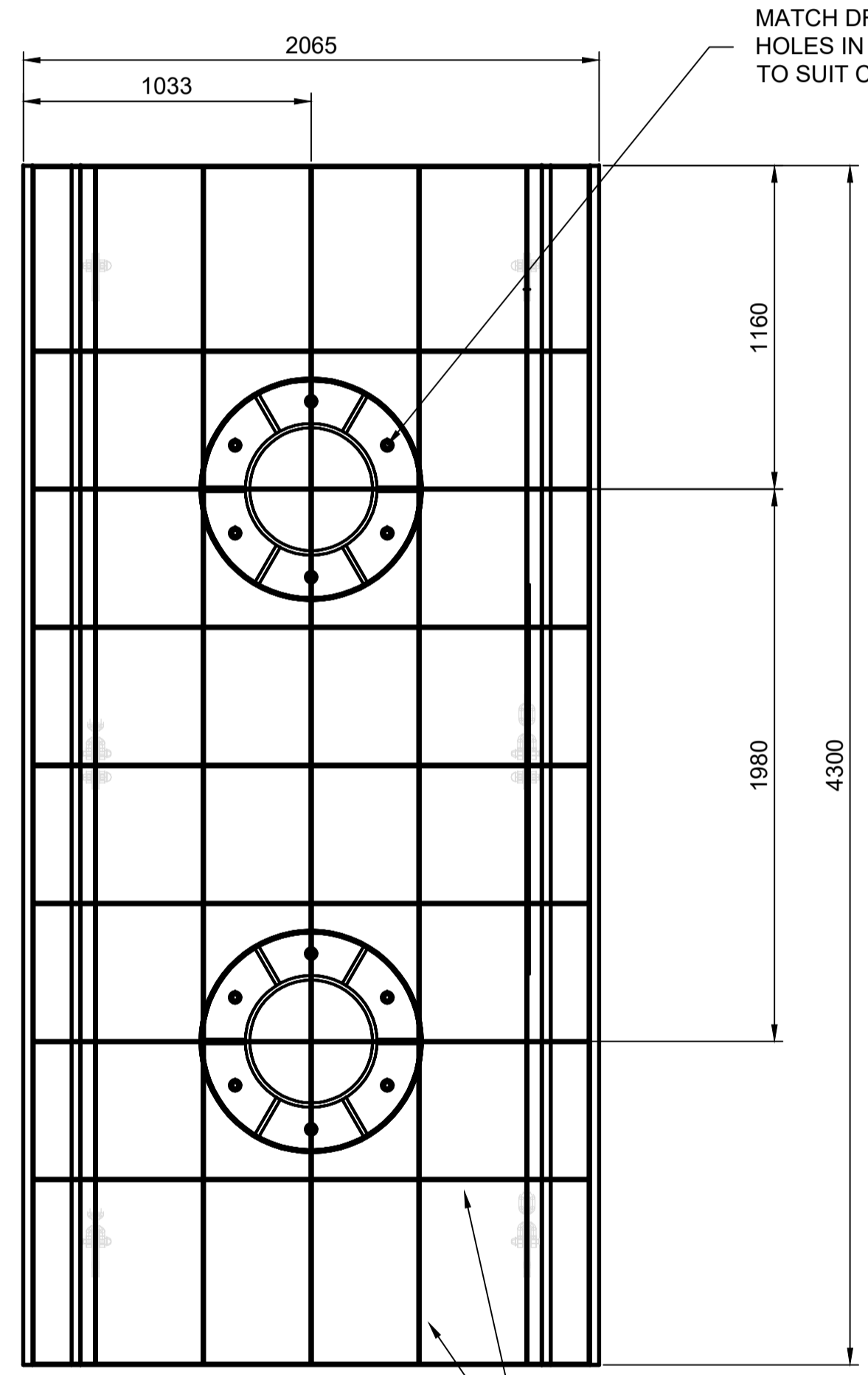
CONE FENDER PLAN
SCALE 1:20



DOUBLE CONE FENDER
ASSEMBLY PICTORIAL
SCALE 1:50

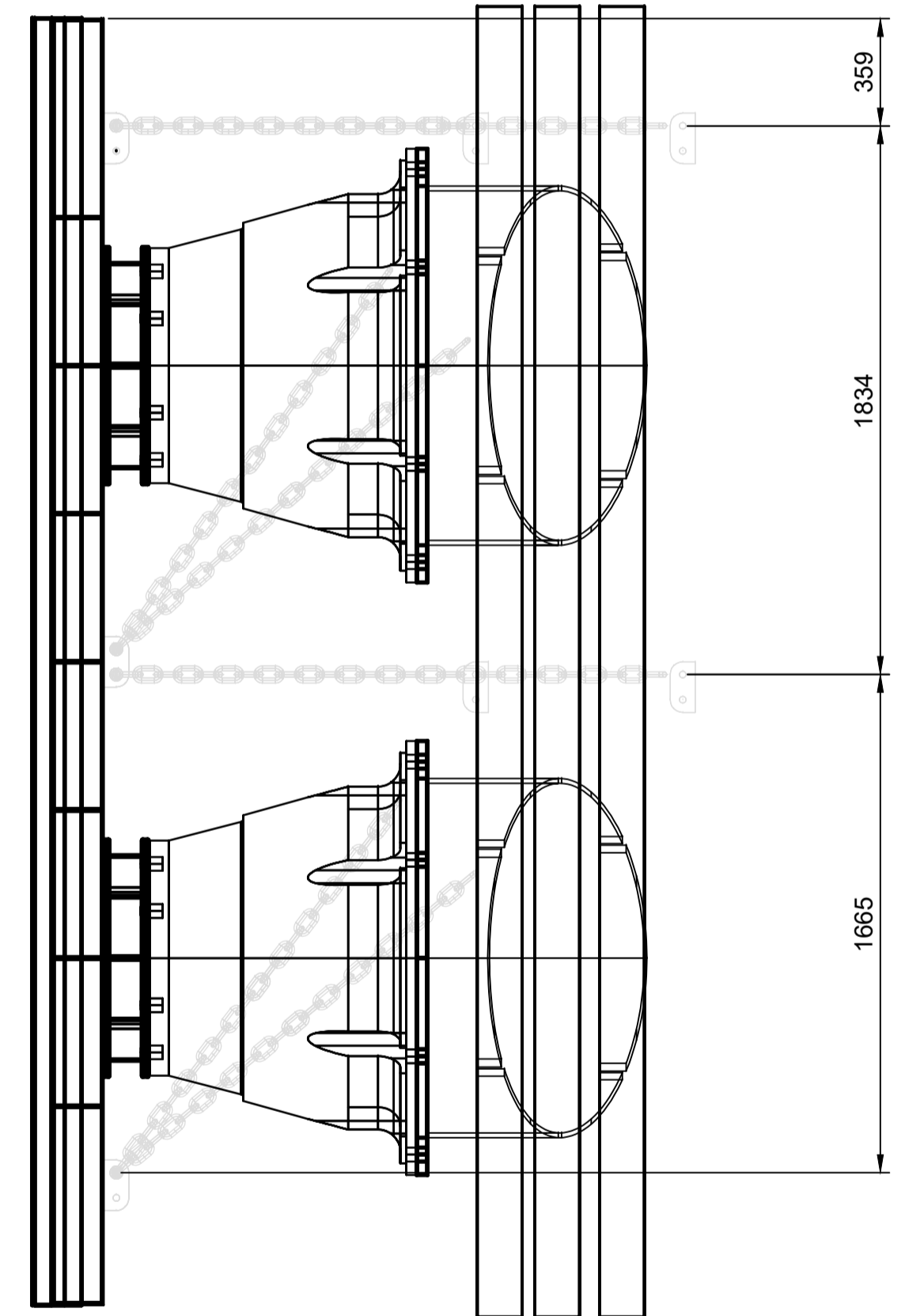


SINGLE CONE FENDER
ASSEMBLY PICTORIAL
SCALE 1:50

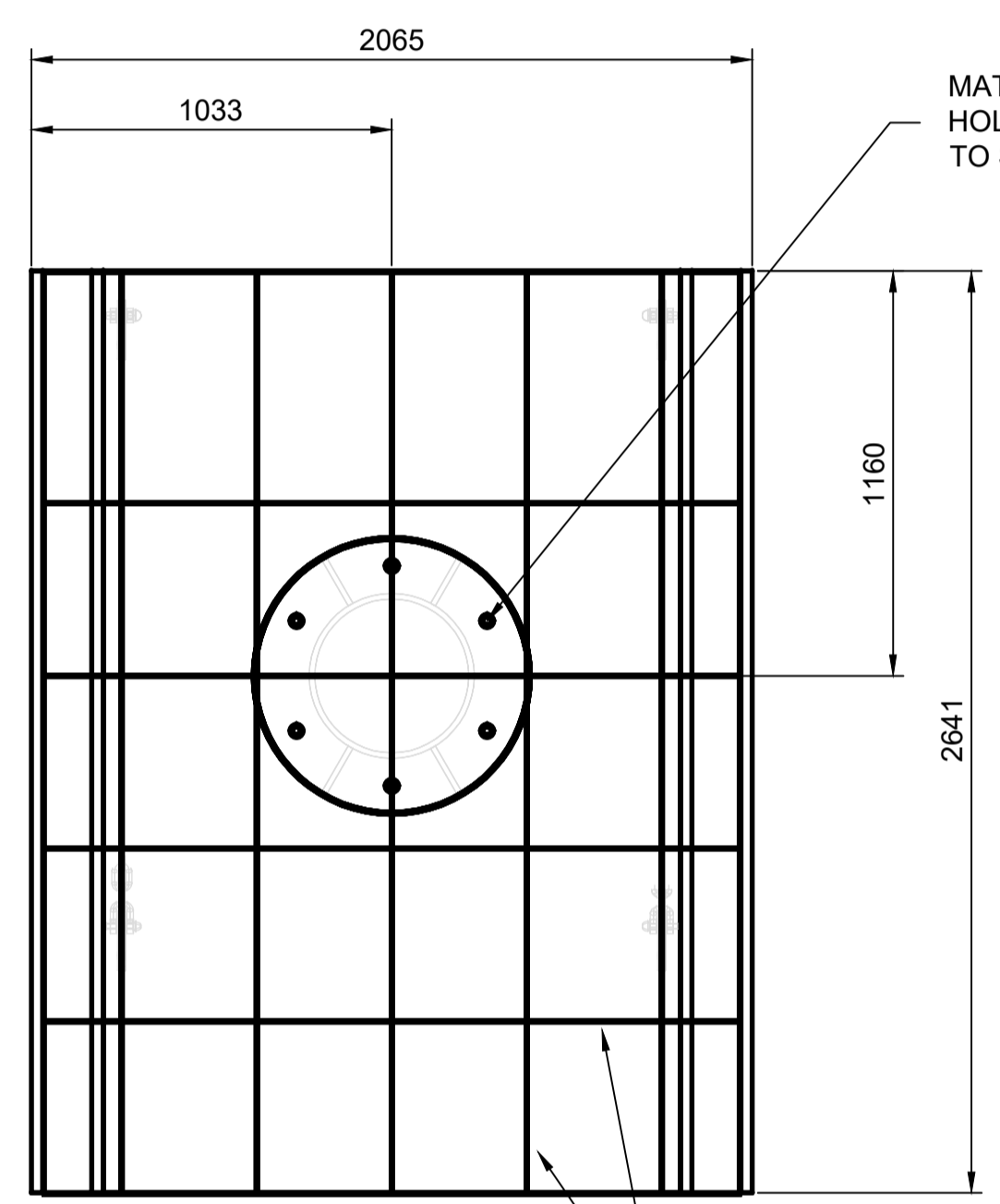


SECTION A
SCALE 1:20

DOUBLE FENDER
PANEL

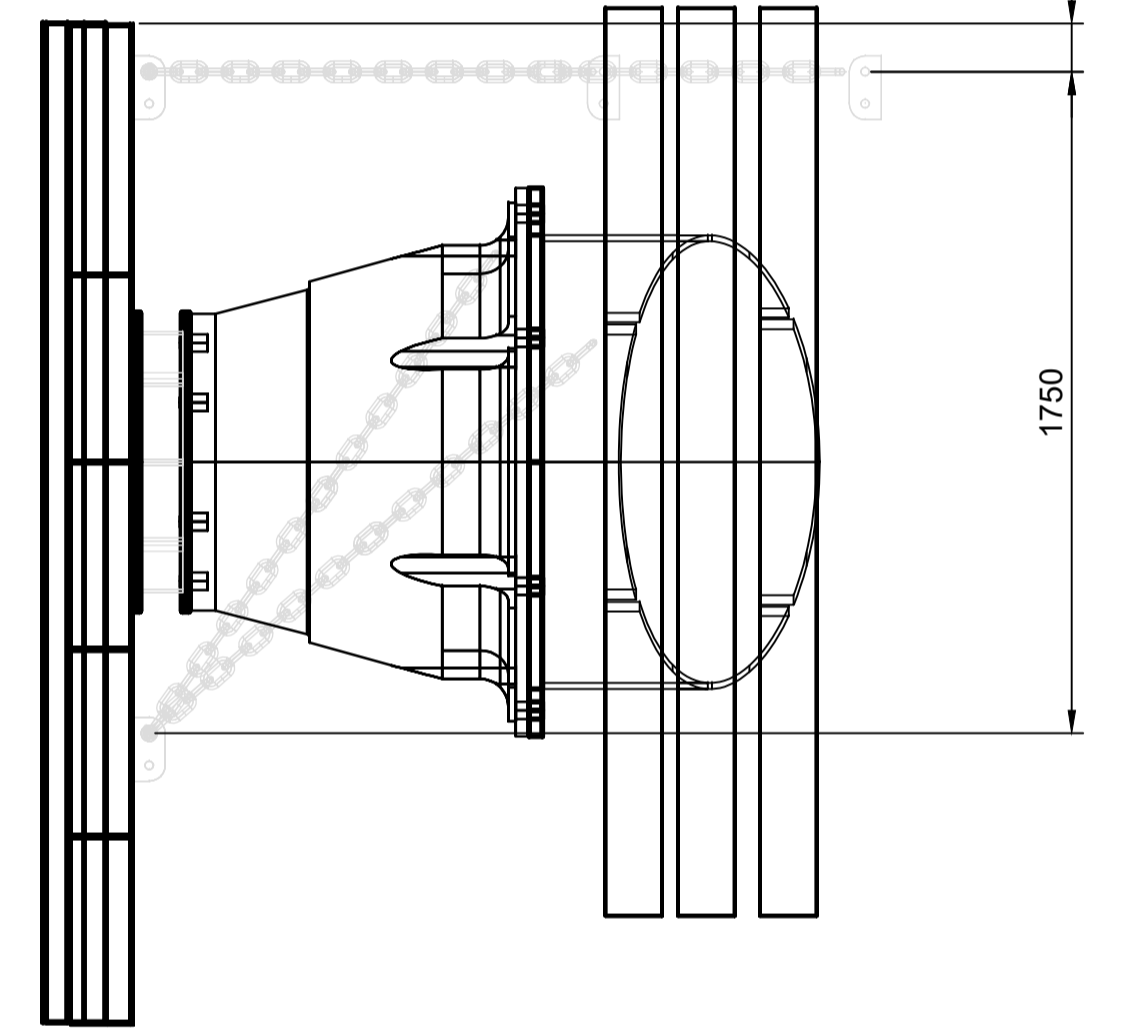


DOUBLE CONE FENDER
ASSEMBLY SIDE VIEW
SCALE 1:20



SECTION A
SCALE 1:20

SINGLE FENDER
PANEL



SINGLE CONE FENDER
ASSEMBLY SIDE VIEW
SCALE 1:20

NOTES:
1. ALL LEVELS RELATIVE TO LAT.

NOTES

1. ALL LEVELS RELATIVE TO LAT.
2. THE FENDER PANEL ASSEMBLY IS TO BE PROVIDED BY THE CONE FENDER SUPPLIER
3. THE FENDER PANEL MATERIALS, MATERIAL THICKNESS AND SPACING TO BE DETERMINED BY THE CONE FENDER SUPPLIER



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0	14.06.22	ISSUED FOR CONSTRUCTION	SB	RJH	PM
A					

CONSULTANT

Kramer Ausenco
ENGINEERS & PROJECT MANAGERS

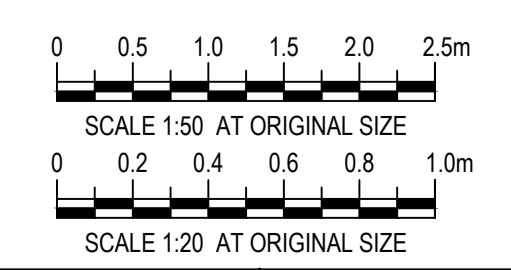
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DATE			
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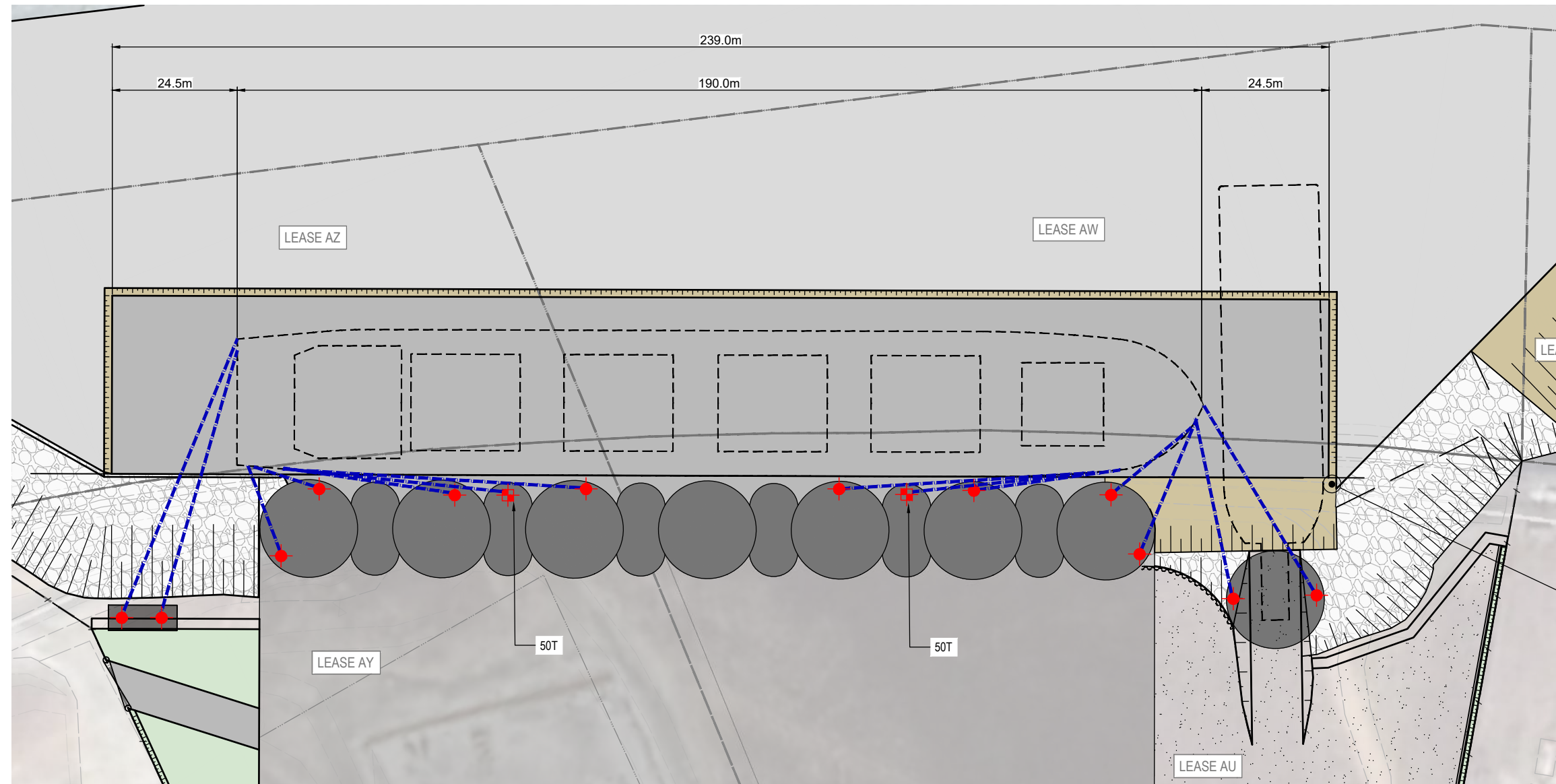
BUNDABERG

Pacific Marine Base
Ship Repair | Barging | Project Support

DESIGNED BY	Robert Hancock
DESIGN CHECK	Roy Scott
DRAWN BY	Luke Rzepka 13.12.21
DRAWING CHECK	S Blanchard
REGISTERED PROFESSIONAL	Peter Moodie
REGISTRATION	RPEQ
SIGNATURE	<i>P. Moodie</i>
NUMBER	3313
DATE	17.06.22



PROJECT NAME		PACIFIC MARINE BASE BUNDABERG	
		MARINE INDUSTRY SITE, STAGE 2	
DRAWING TITLE		STAGE 2 WORKS - STRUCTURAL	
		CONE FENDER PANEL DETAILS	
SCALE	As Noted	DRAWING NUMBER	0888-K0139
		REVISION	0



MOORING PLAN
SCALE 1: 500

- LEGEND - CIVIL**
- LEASE BOUNDARY
 - CADASTRE BOUNDARY
 - FENCE
 - HINGED GATE ON POST

- LEGEND - MARITIME**
- DEPARTURE CHANNEL
 - BERTH
 - 1 in 3 DREDGE BATTER
 - ROCK PROTECTION

- 100T TEE HEAD MOORING BOLLARD
- 50T TEE HEAD MOORING BOLLARD
- MOORING ROPE

- NOTES**
- FOR GENERAL NOTES REFER TO DRAWING 0888-C0001.
 - WHERE SHOWN, SERVICES AND LOCATIONS ARE INDICATIVE ONLY AND SYMBOLS ARE NOT TO SCALE.
 - MOORING LAYOUT FOR STAGE 2 DESIGN VESSEL

REV	DATE	DESCRIPTION	BY	REVIEWED	APPROVED
A	25.6.22	ISSUED FOR DEVELOPMENT APPROVAL	MC	JL	-

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CIVIL • MARINE • MANAGEMENT

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SURVEY / DESIGN REFERENCES

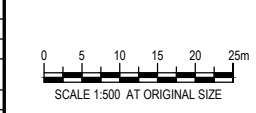
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Dated - 03.08.2021
Horizontal datum - MGA 94 ZONE 56
PH 3853
Vertical datum - AHD (LAND BASED)
LAT (MARINE - WHERE NOTED)

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CLIENT

Pacific Marine Base
Ship Repair | Barging | Project Support

DESIGNED BY	J.LAWLEY	MAY 2022
DES CHK	-	-
DRAWN	M.COLLINGS	MAY 2022
DRG CHK	J.LAWLEY	JUN 2022
REGISTERED PROFESSIONAL	J.LAWLEY	
REGISTRATION	LONJAC PTY LTD	
SIGNATURE		
No.	22281	
Date.	29.6.2022	



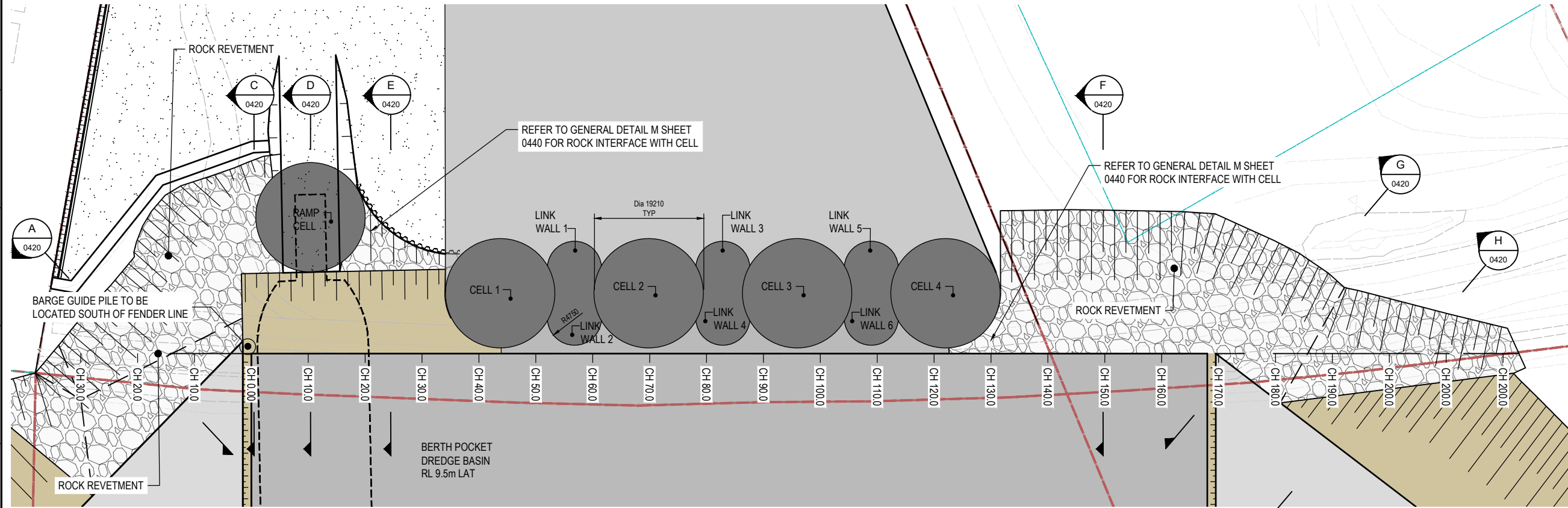
PROJECT
PACIFIC MARINE BASE BUNDABERG
MARINE INDUSTRY SITE

DRAWING TITLE
STAGE 2
MOORING PLAN

SCALE AS SHOWN

DRG NO. **0888 - K0320**

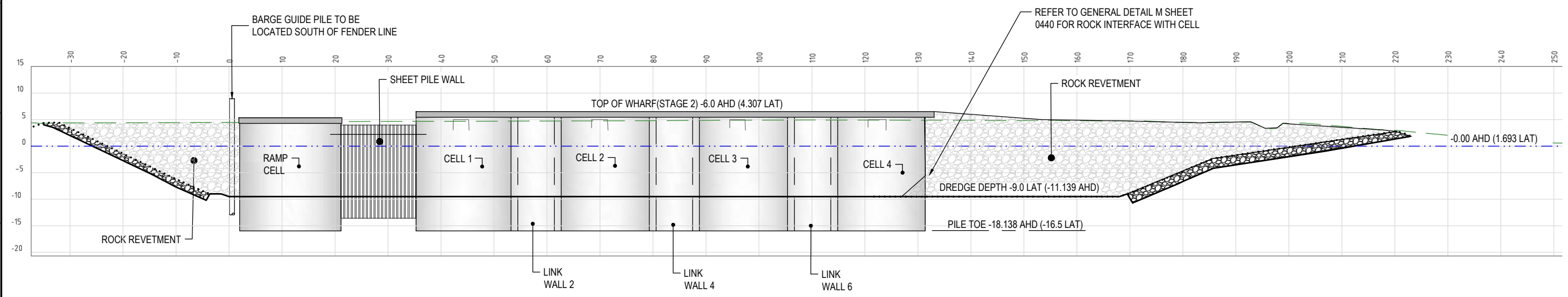
REV **A**



- LEGEND - CIVIL**
- LEASE BOUNDARY
 - CADASTRE BOUNDARY
 - FENCE
 - HINGED GATE ON POST
- LEGEND - MARITIME**
- DEPARTURE CHANNEL
 - BERTH
 - 1 in 3 DREDGE BATTER
 - ROCK PROTECTION
- NOTES**
- FOR GENERAL NOTES REFER TO DRAWING 0888-C0001.
 - WHERE SHOWN, SERVICES AND LOCATIONS ARE INDICATIVE ONLY AND SYMBOLS ARE NOT TO SCALE. REFER ALSO TO PLAN 08888-C0950.



QUAY WALL PLAN
SCALE 1:400



QUAY WALL ELEVATION
SCALE 1:400



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A	25.6.22	ISSUED FOR DEVELOPMENT APPROVAL	MC	JL	-

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Survey By - INSITE SJC
Dated - 03.08.2021
Horizontal datum - MGA 94 ZONE 56
PM 3853
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LAT (MARINE - WHERE NOTED)

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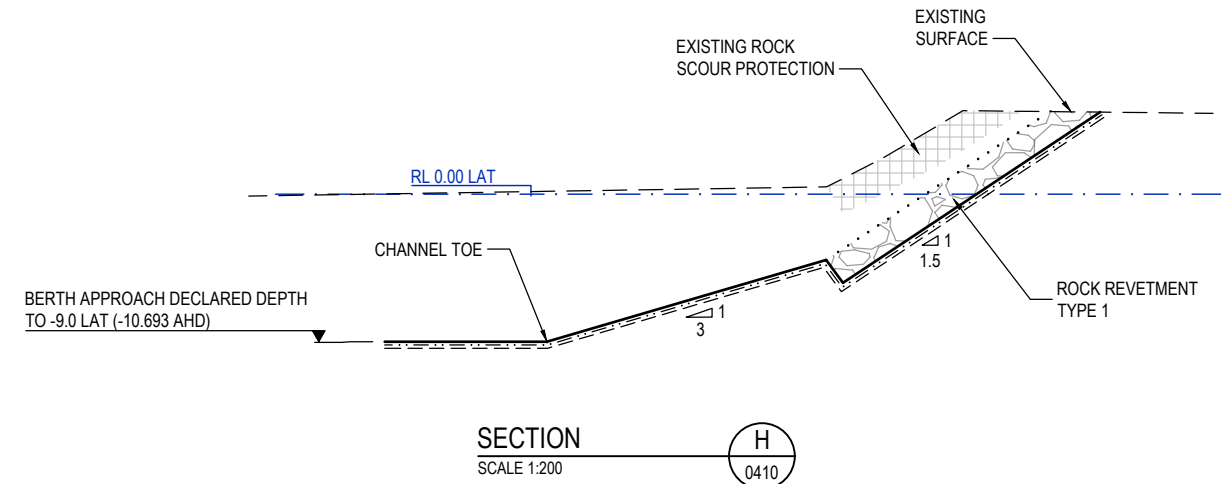
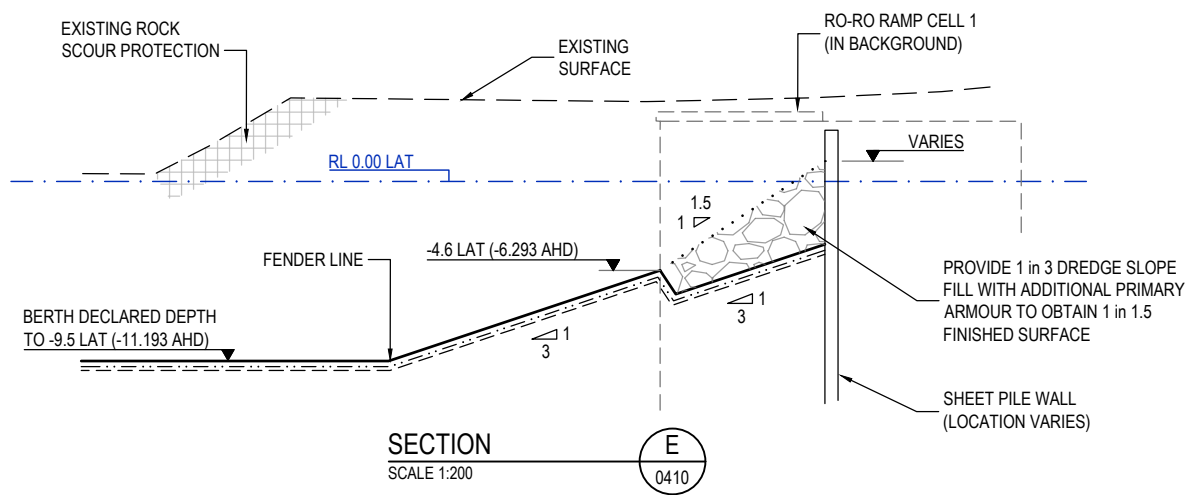
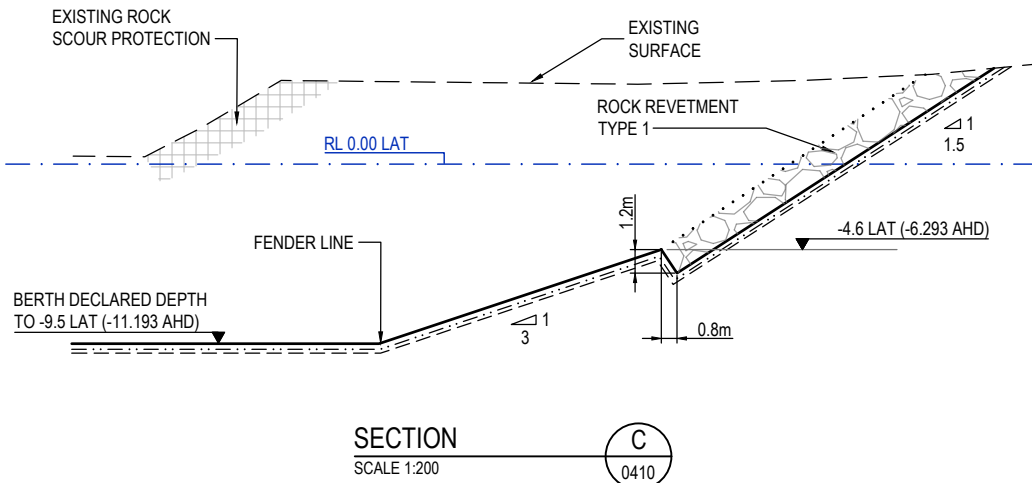
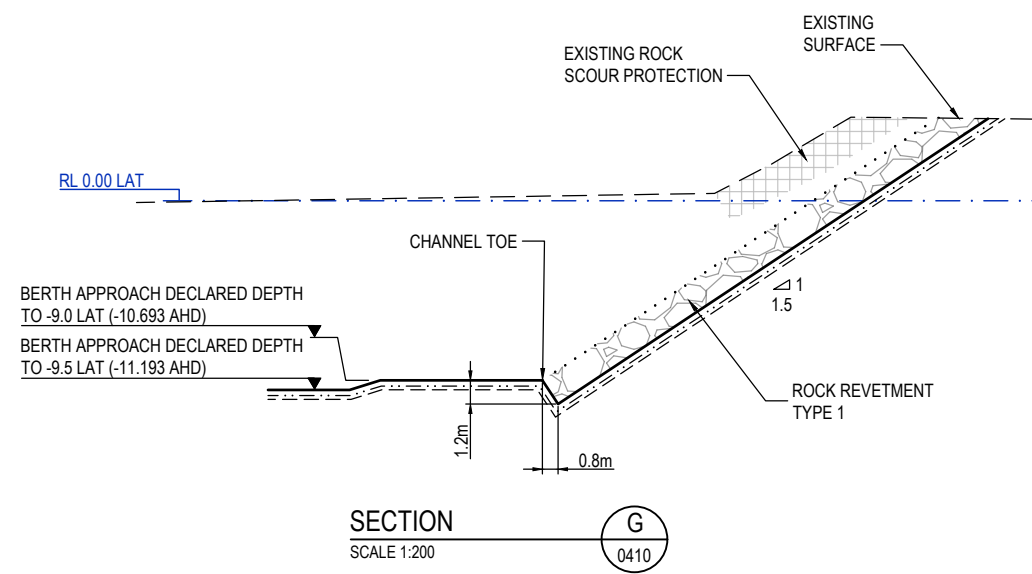
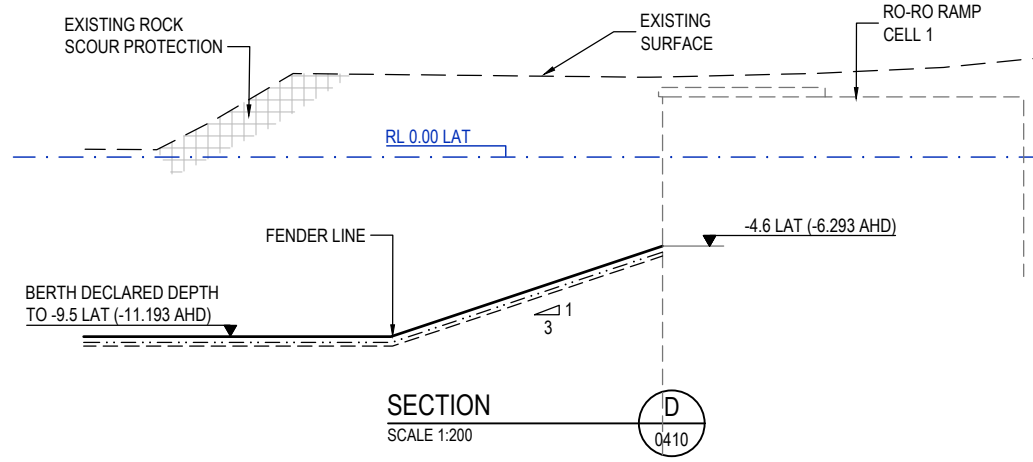
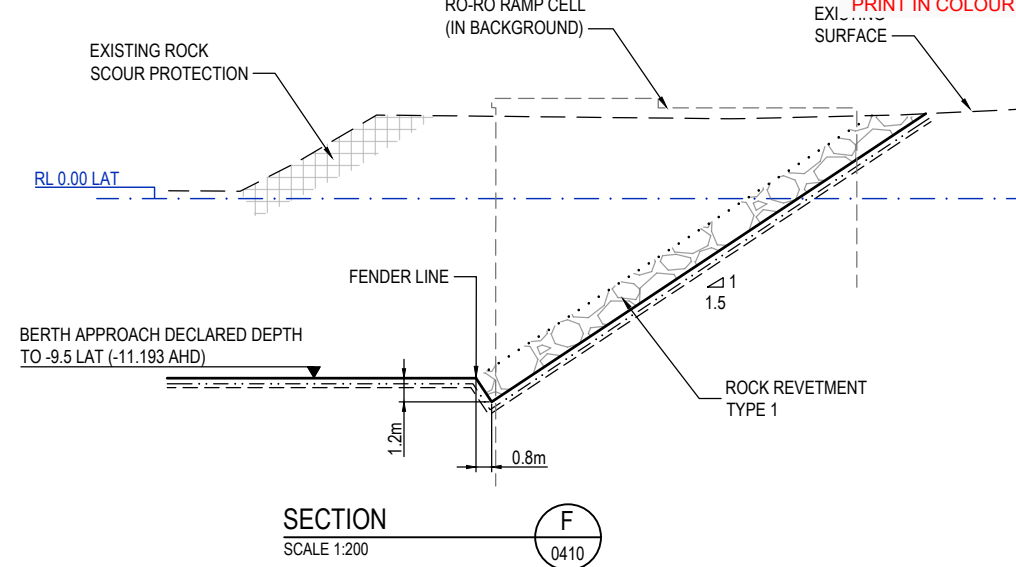
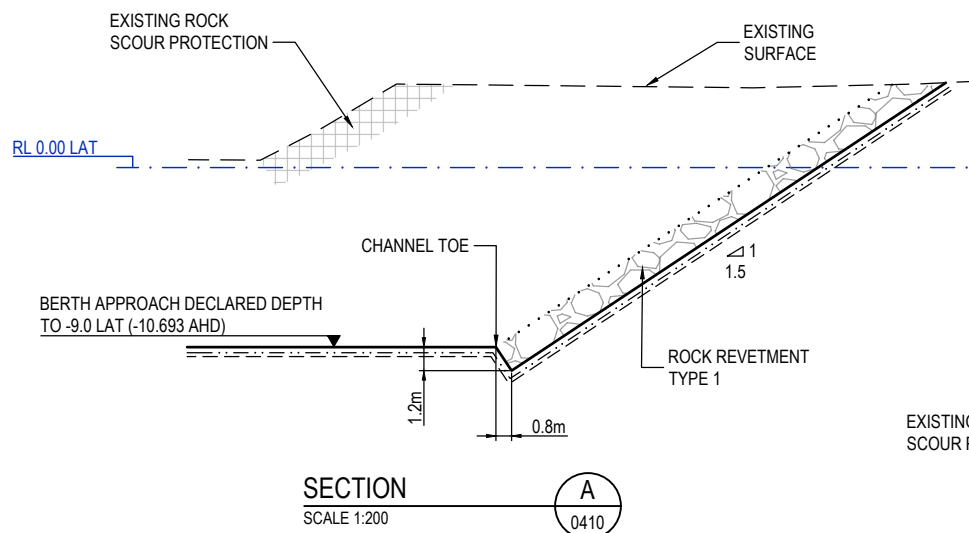
CLIENT

BUNDABERG
Pacific Marine Base
Ship Repair | Barging | Project Support

DESIGNED BY	J.LAWLEY	MAY 2022
DES CHK	-	-
DRAWN	M.COLLINGS	MAY 2022
DRG CHK	J.LAWLEY	JUN 2022
REGISTERED PROFESSIONAL	J.LAWLEY	
REGISTRATION	LONJAC PTY LTD	
SIGNATURE	<i>[Signature]</i>	
No.	22281	
Date.	29.6.2022	



PROJECT		PACIFIC MARINE BASE BUNDABERG
DRAWING TITLE		MARINE INDUSTRY SITE
STAGE 1		ROCK WALL PLAN AND ELEVATION
SCALE	AS SHOWN	DRG NO. 0888- K0410
REV	A	



REV	DATE	DESCRIPTION	BY	REVIEWED	APPROVED
A	25.6.22	ISSUED FOR DEVELOPMENT APPROVAL	MC	JL	-

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SURVEY / DESIGN REFERENCES

Survey By - INSITE SJC
Dated - 03.08.2021
Horizontal datum - MGA 94 ZONE 56
PM 3853
Vertical datum - AHD (LAND BASED)
LAT (MARINE - WHERE NOTED)

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CLIENT

BUNDABERG
Pacific Marine Base
Ship Repair | Barging | Project Support

DESIGNED BY: J.LAWLEY MAY 2022

DES CHK: -

DRAWN: M.COLLINGS MAY 2022

DRG CHK: J.LAWLEY JUN 2022

REGISTERED PROFESSIONAL: J.LAWLEY

REGISTRATION: LONJAC PTY LTD

SIGNATURE: [Signature]

No: 22281

Date: 29.6.2022



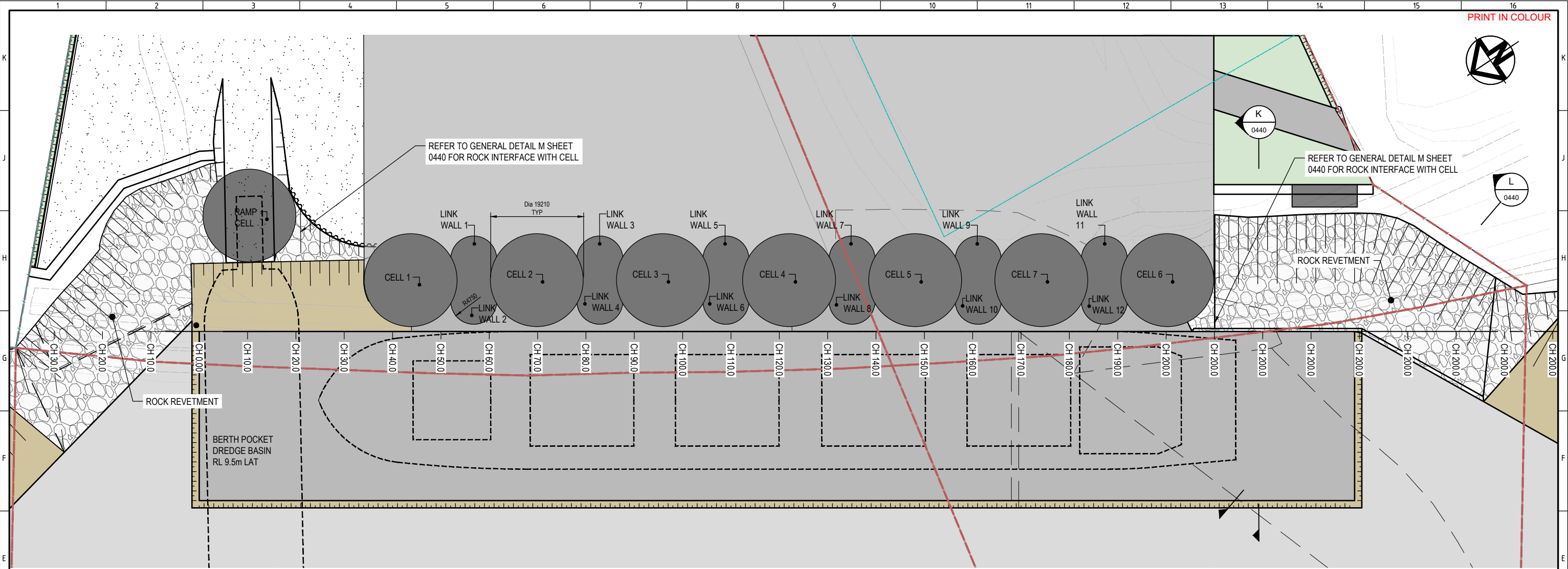
PROJECT: PACIFIC MARINE BASE BUNDABERG
MARINE INDUSTRY SITE

DRAWING TITLE: STAGE 1
ROCKWALL TYPICAL SECTIONS

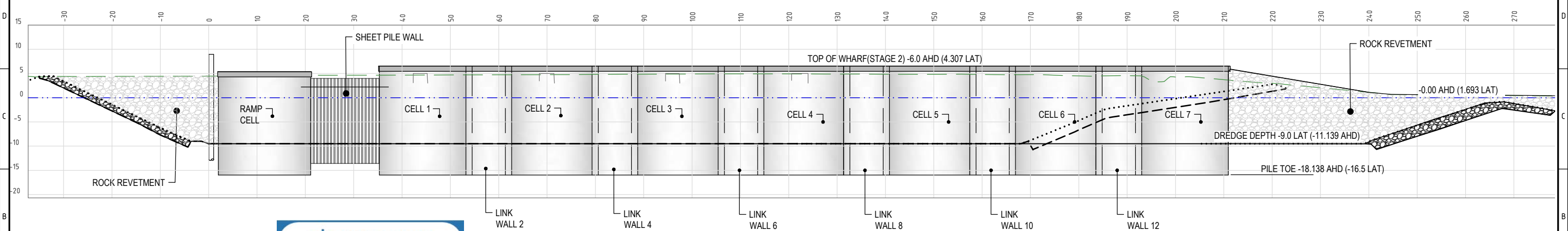
SCALE: AS SHOWN

DRG NO: 0888- K0420

REV: A



QUAY WALL PLAN
SCALE 1:400



QUAY WALL ELEVATION
SCALE 1:400

- NOTES**
- FOR GENERAL NOTES REFER TO DRAWING 0888-C0001.
 - WHERE SHOWN, SERVICES AND LOCATIONS ARE INDICATIVE ONLY AND SYMBOLS ARE NOT TO SCALE.

GPC Gladstone Ports Corporation

APPROVED

Name: Trudi Smith
Date: 2:14pm 01/11/2022

- LEGEND - MARITIME**
- DEPARTURE CHANNEL
 - BERTH
 - 1 in 3 DREDGE BATTER
 - ROCK PROTECTION
- LEGEND - CIVIL**
- LEASE BOUNDARY
 - CADASTRE BOUNDARY
 - FENCE
 - HINGED GATE ON POST

REV	DATE	DESCRIPTION	BY	REVIEWED	APPROVED
A	25.6.22	ISSUED FOR DEVELOPMENT APPROVAL	MC	JL	-

CONSULTANT LOGO

LONJAC
CIVIL • MARINE • MANAGEMENT

976 PINE CREEK ROAD,
Electra,
Queensland, 4670
Ph +61 (0) 499 000 202
jim@lonjac.net.au

SURVEY / DESIGN REFERENCES

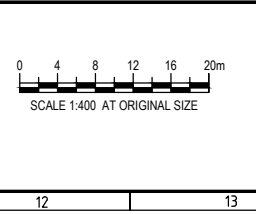
Survey By - INSITE SJC
Dated - 03.08.2021
Horizontal datum - MGA 94 ZONE 56
PM 3853
Vertical datum - AHD (LAND BASED)
LAT (MARINE - WHERE NOTED)

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CLIENT

BUNDABERG
Pacific Marine Base
Ship Repair | Barging | Project Support

DESIGNED BY	J.LAWLEY	MAY 2022
DES CHK	-	-
DRAWN	M.COLLINGS	MAY 2022
DRG CHK	J.LAWLEY	JUN 2022
REGISTERED PROFESSIONAL	J.LAWLEY	
REGISTRATION	LONJAC PTY LTD	
SIGNATURE	<i>[Signature]</i>	
No.	22281	
Date.	29.6.2022	



PROJECT
PACIFIC MARINE BASE BUNDABERG
MARINE INDUSTRY SITE

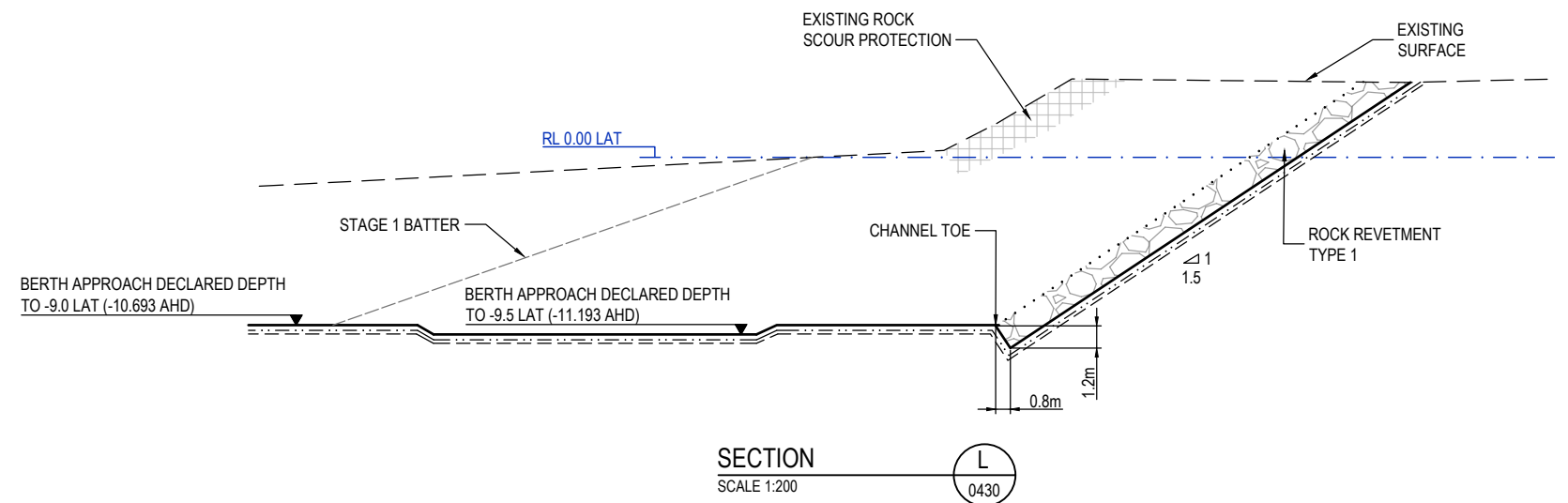
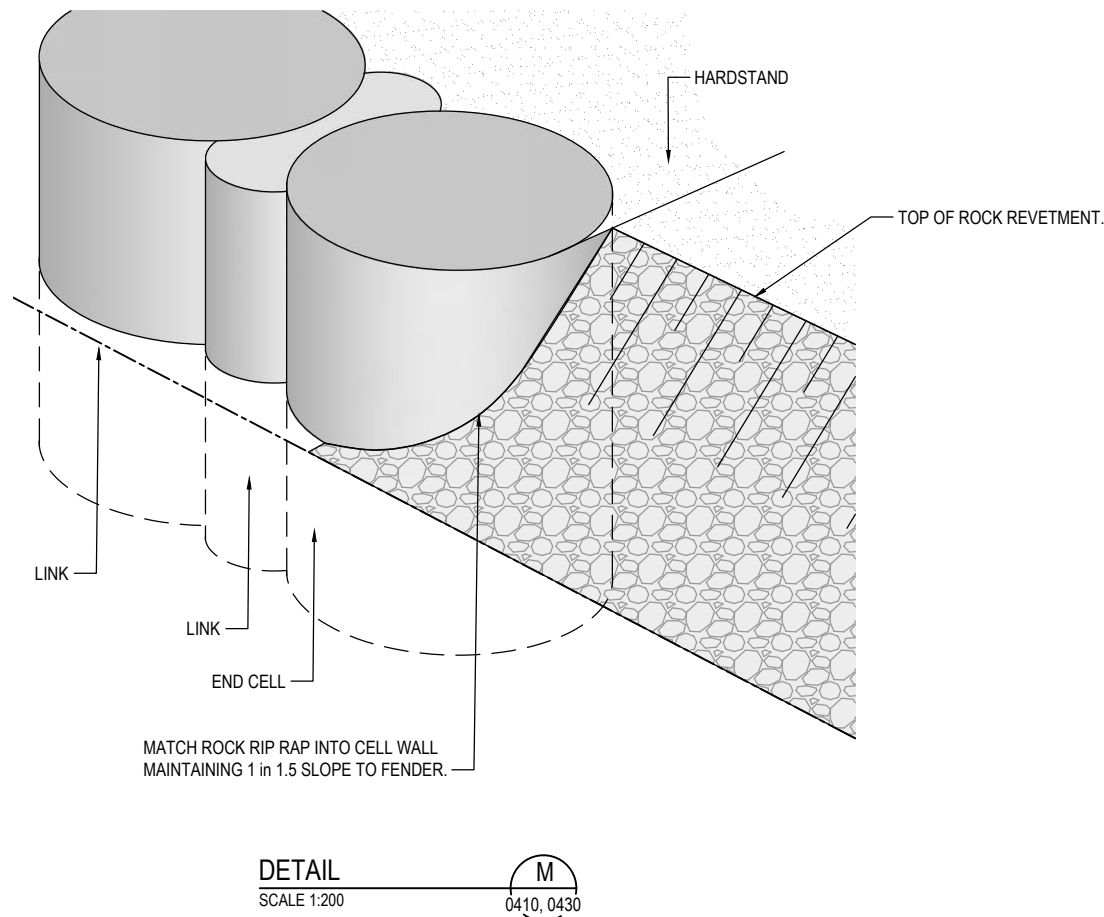
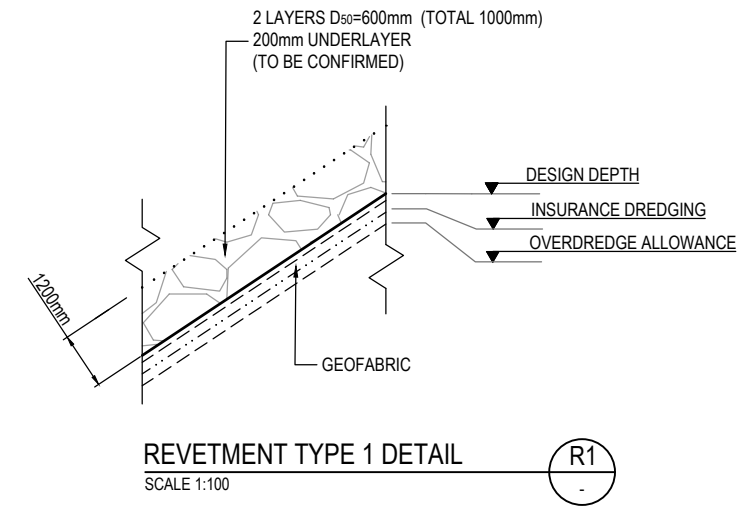
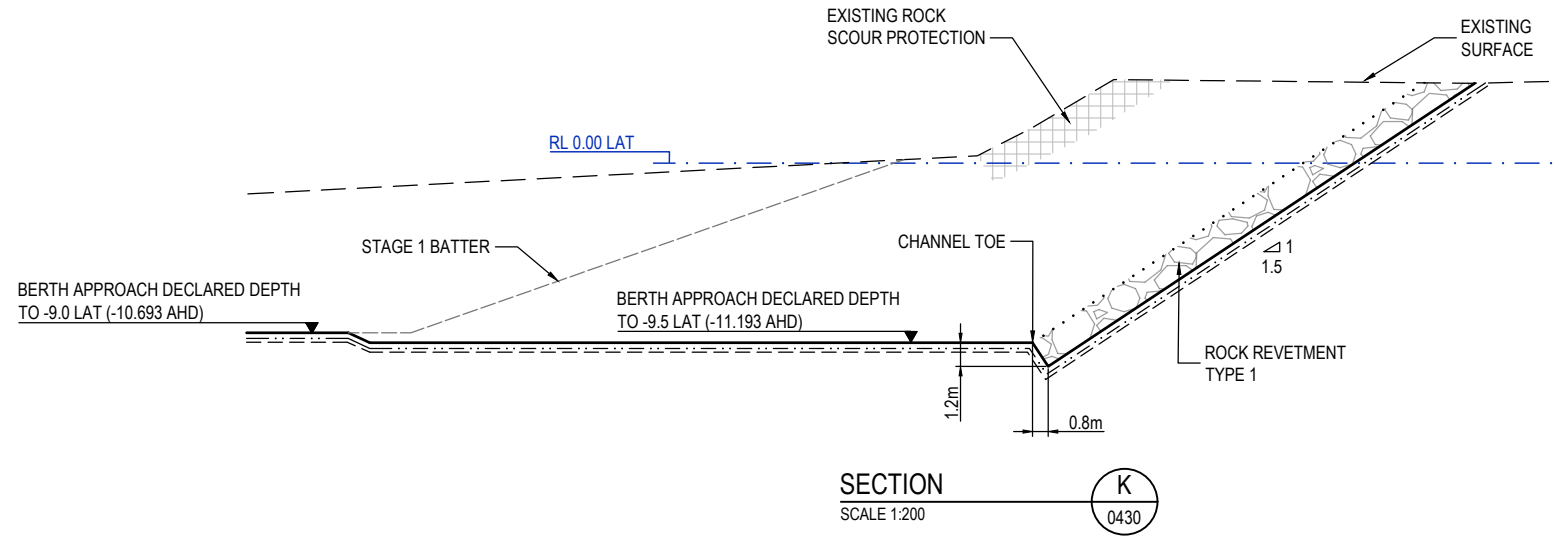
DRAWING TITLE
STAGE 2
ROCK WALL PLAN AND ELEVATION

SCALE AS SHOWN
DRG NO. 0888- K0430
REV A

GPC Gladstone Ports Corporation

APPROVED

Name: Trudi Smith
Date: 2:15pm 01/11/2022



REV	DATE	DESCRIPTION	BY	REVIEWED	APPROVED
A	25.6.22	ISSUED FOR DEVELOPMENT APPROVAL	MC	JL	-

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SURVEY / DESIGN REFERENCES

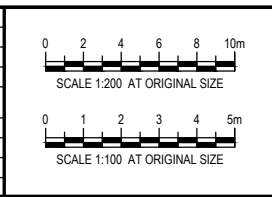
Survey By - INSITE SJC
Dated - 03.08.2021
Horizontal datum - MGA 94 ZONE 56
PM 3853
Vertical datum - AHD (LAND BASED)
LAT (MARINE - WHERE NOTED)

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CLIENT

BUNDABERG
Pacific Marine Base
Ship Repair | Barging | Project Support

DESIGNED BY	J.LAWLEY	MAY 2022
DES CHK	-	-
DRAWN	M.COLLINGS	MAY 2022
DRG CHK	J.LAWLEY	JUN 2022
REGISTERED PROFESSIONAL	J.LAWLEY	
REGISTRATION	LONJAC PTY LTD	
SIGNATURE	<i>[Signature]</i>	
No.	22281	
Date.	29.6.2022	



PROJECT
PACIFIC MARINE BASE BUNDABERG
MARINE INDUSTRY SITE

DRAWING TITLE
STAGE 2
ROCKWALL TYPICAL SECTIONS

SCALE AS SHOWN
DRG NO. 0888- K0440
REV A

LEGEND

- 1 in 3 BATTER
- 1 in 1.5 BATTER (AND ROCK REVETMENT)
- BERTH APPROACH (RL -9.0 LAT)
- BERTH POCKET (RL -9.5 LAT)
- WHARF PILES AND INDICATIVE DECK (THIS STAGE)
- SITE LEASE BOUNDARY
- SITE LEASE BOUNDARY (HISTORICAL)
- PORT CHANNEL BOUNDARIES
- EXISTING PORT BEACON No 22

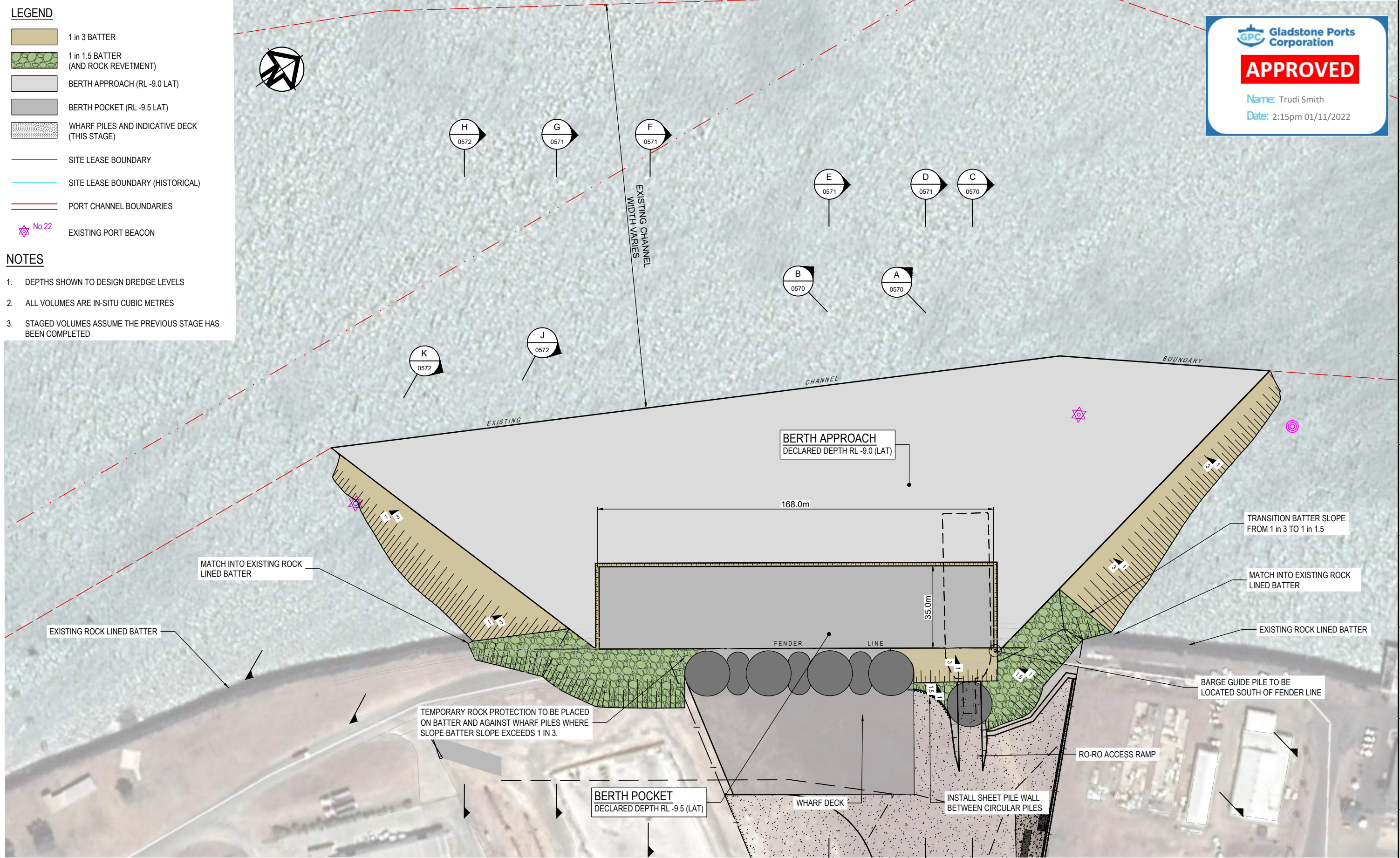
NOTES

- DEPTHS SHOWN TO DESIGN DREDGE LEVELS
- ALL VOLUMES ARE IN-SITU CUBIC METRES
- STAGED VOLUMES ASSUME THE PREVIOUS STAGE HAS BEEN COMPLETED

GPC Gladstone Ports Corporation

APPROVED

Name: Trudi Smith
Date: 2:15pm 01/11/2022



PLAN SCALE 1:750

REV	DATE	DESCRIPTION	BY	REVIEWED	APPROVED
A	25.6.22	ISSUED FOR DEVELOPMENT APPROVAL	MC	JL	-

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SURVEY / DESIGN REFERENCES

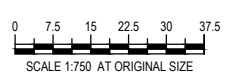
Survey By - INSITE SJC
Dated - 03.08.2021
Horizontal datum - MGA 94 ZONE 56
PM 3853
Vertical datum - AHD (LAND BASED)
LAT (MARINE - WHERE NOTED)

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BUNDABERG
Pacific Marine Base
Ship Repair | Barging | Project Support

DESIGNED BY	J.LAWLEY	MAY 2022
DES CHK	-	-
DRAWN	M.COLLINGS	MAY 2022
DRG CHK	J.LAWLEY	JUN 2022
REGISTERED PROFESSIONAL	J.LAWLEY	
REGISTRATION	LONJAC PTY LTD	
SIGNATURE	<i>[Signature]</i>	
No.	22281	
Date	29.6.2022	



PROJECT

PACIFIC MARINE BASE BUNDABERG
MARINE INDUSTRY SITE

DRAWING TITLE

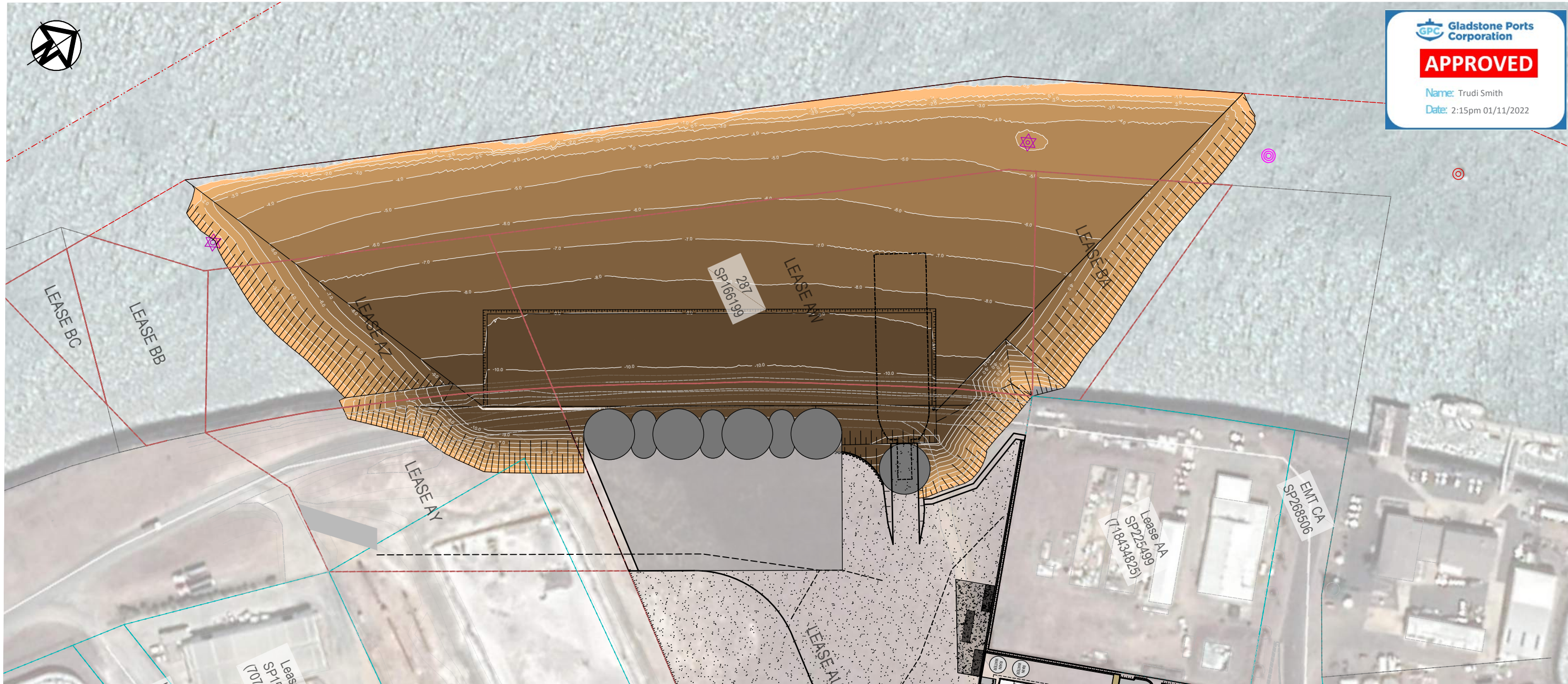
STAGE 1
DREDGING PLAN

SCALE AS SHOWN

DRG NO. **0888- K0510**

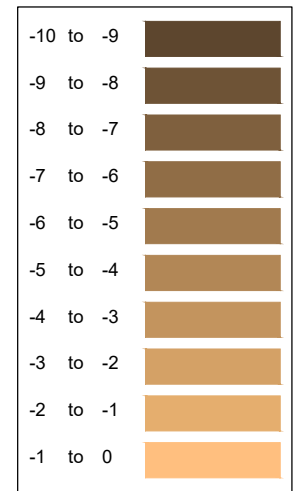
REV **A**

Gladstone Ports Corporation
APPROVED
 Name: Trudi Smith
 Date: 2:15pm 01/11/2022



PLAN
SCALE 1:750

DEPTH RANGE



STAGE 1 DREDGE VOLUMES

ALL VOLUMES IN SITU CUBIC METRES ALL LEVELS ARE TO LAT

ZONE	SURFACE AREA (PLAN AREA m ²)	DECLARED DEPTH VOLUME (m ³)	INSURANCE VOLUME (m ³)	OVERDREDGE VOLUME (m ³)
DEPARTURE CHANNEL AND 1:3 BATTERS (DECLARED DEPTH -7.0 LAT)	31,006	162,784	175,275	183,637
BERTH POCKET, WHARF PILES AND ROCK SCOUR AREAS (DECLARED DEPTH -7.5 LAT)	11,068	94,752	98,139	100,396
TOTAL	42,074	257,536	273,414	284,034

NOTES

1. DEPTHS SHOWN TO DESIGN DREDGE LEVELS
2. ALL VOLUMES ARE IN-SITU CUBIC METRES
3. STAGED VOLUMES ASSUME THE PREVIOUS STAGE HAS BEEN COMPLETED
4. CONTOURS SHOWN ON THIS PLAN ARE DEPTHS BETWEEN THE VOLUME SURFACES.
5. EARTHWORKS:
 FILL
 MATERIAL PLACED FROM EXISTING SURFACE TO DESIGN LEVELS.
 CUT
 EXCAVATION TO DESIGN DREDGE LEVELS

STG 1 BULK EARTHWORK VOLUMES TABLE

DEPTH		VOLUME (m ³)	
FROM	TO	CUT	FILL
-15.000	-9.000	-15460.605	0.000
-9.000	-8.000	-9617.165	0.000
-8.000	-7.000	-14257.590	0.000
-7.000	-6.000	-18432.669	0.000
-6.000	-5.000	-23649.234	0.000
-5.000	-4.000	-29525.479	0.000
-4.000	-3.000	-33781.926	0.000
-3.000	-2.000	-35848.060	0.000
-2.000	-1.000	-37549.355	0.000
-1.000	0.000	-39384.906	0.000
Total cut		-257506.989	

REV	DATE	DESCRIPTION	BY	REVIEWED	APPROVED
A	25.6.22	ISSUED FOR DEVELOPMENT APPROVAL	MC	JL	-

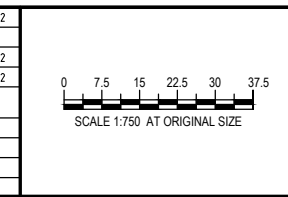
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 jim@lonjac.net.au

SURVEY / DESIGN REFERENCES
 Survey By - INSITE SJC
 Dated - 03.08.2021
 Horizontal datum - MGA 94 ZONE 56
 PM 3853
 Vertical datum - AHD (LAND BASED)
 LAT (MARINE - WHERE NOTED)

CLIENT

Pacific Marine Base
 Ship Repair | Barging | Project Support

DESIGNED BY	J.LAWLEY	MAY 2022
DES CHK	-	-
DRAWN	M.COLLINGS	MAY 2022
DRG CHK	J.LAWLEY	JUN 2022
REGISTERED PROFESSIONAL	J.LAWLEY	
REGISTRATION	LONJAC PTY LTD	
SIGNATURE		
No.	22281	
Date.	29.6.2022	



PROJECT
 PACIFIC MARINE BASE BUNDABERG
 MARINE INDUSTRY SITE
DRAWING TITLE
 STAGE 1
 VOLUMES PLAN
SCALE
 AS SHOWN
DRG NO.
 0888- K0520
REV
 A

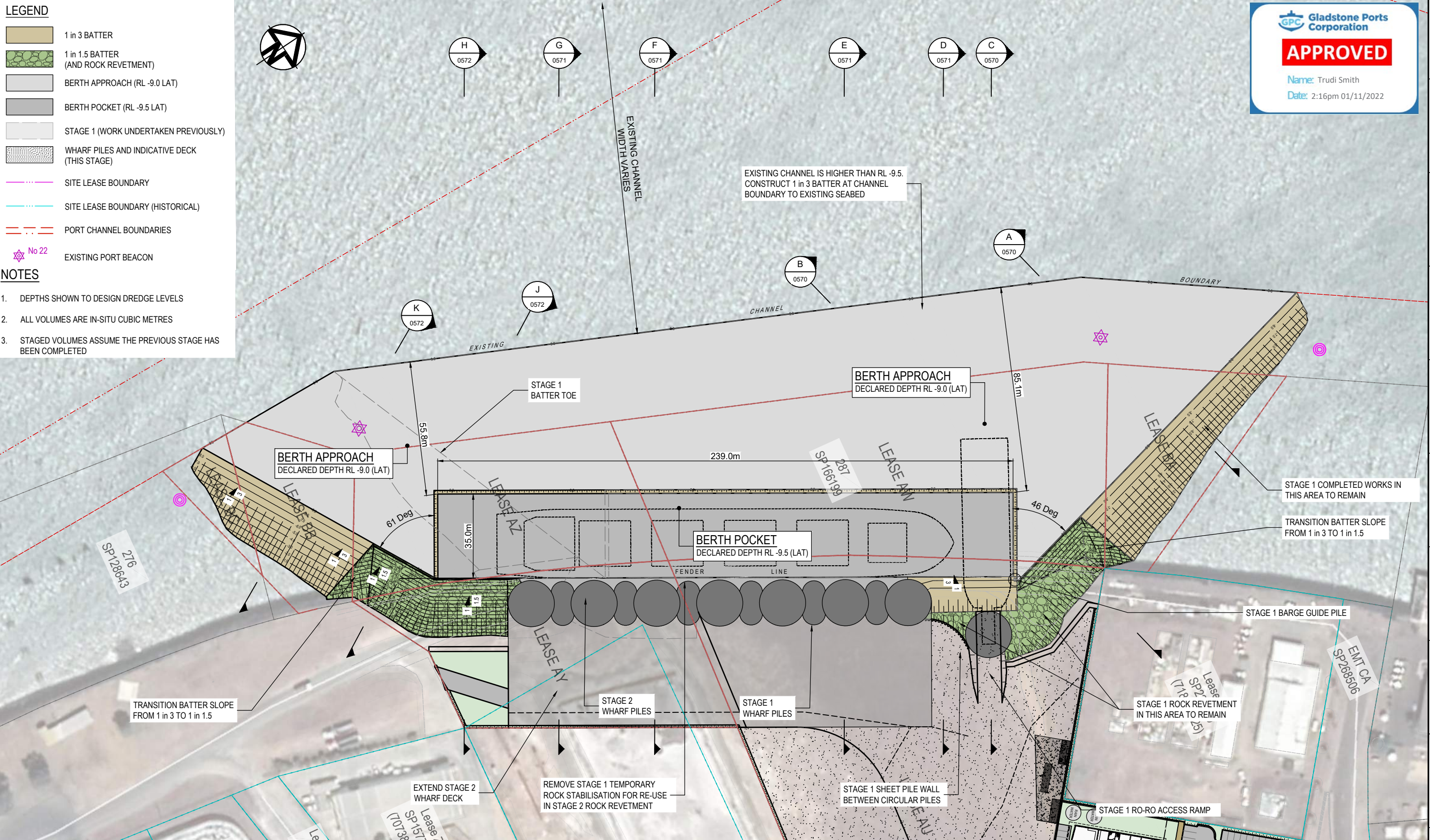
GPC Gladstone Ports Corporation

APPROVED

Name: Trudi Smith
Date: 2:16pm 01/11/2022

- LEGEND**
- 1 in 3 BATTER
 - 1 in 1.5 BATTER (AND ROCK REVETMENT)
 - BERTH APPROACH (RL -9.0 LAT)
 - BERTH POCKET (RL -9.5 LAT)
 - STAGE 1 (WORK UNDERTAKEN PREVIOUSLY)
 - WHARF PILES AND INDICATIVE DECK (THIS STAGE)
 - SITE LEASE BOUNDARY
 - SITE LEASE BOUNDARY (HISTORICAL)
 - PORT CHANNEL BOUNDARIES
 - No 22 EXISTING PORT BEACON

- NOTES**
- DEPTHS SHOWN TO DESIGN DREDGE LEVELS
 - ALL VOLUMES ARE IN-SITU CUBIC METRES
 - STAGED VOLUMES ASSUME THE PREVIOUS STAGE HAS BEEN COMPLETED



PLAN
SCALE 1:750

REV	DATE	DESCRIPTION	BY	REVIEWED	APPROVED
A	25.6.22	ISSUED FOR DEVELOPMENT APPROVAL	MC	JL	-

CONSULTANT LOGO

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SURVEY / DESIGN REFERENCES

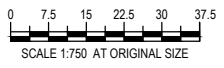
Survey By - INSITE SJC
Dated - 03.08.2021
Horizontal datum - MGA 94 ZONE 56
PM 3853
Vertical datum - AHD (LAND BASED)
LAT (MARINE - WHERE NOTED)

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BUNDABERG
Pacific Marine Base
Ship Repair | Barging | Project Support

DESIGNED BY	JLAWLEY	MAY 2022
DES CHK	-	-
DRAWN	M.COLLINGS	MAY 2022
DRG CHK	JLAWLEY	JUN 2022
REGISTERED PROFESSIONAL	JLAWLEY	
REGISTRATION	LONJAC PTY LTD	
SIGNATURE	<i>[Signature]</i>	
No.	22281	
Date	29.6.2022	



PROJECT
PACIFIC MARINE BASE BUNDABERG
MARINE INDUSTRY SITE

DRAWING TITLE
STAGE 2
DREDGING PLAN

SCALE AS SHOWN

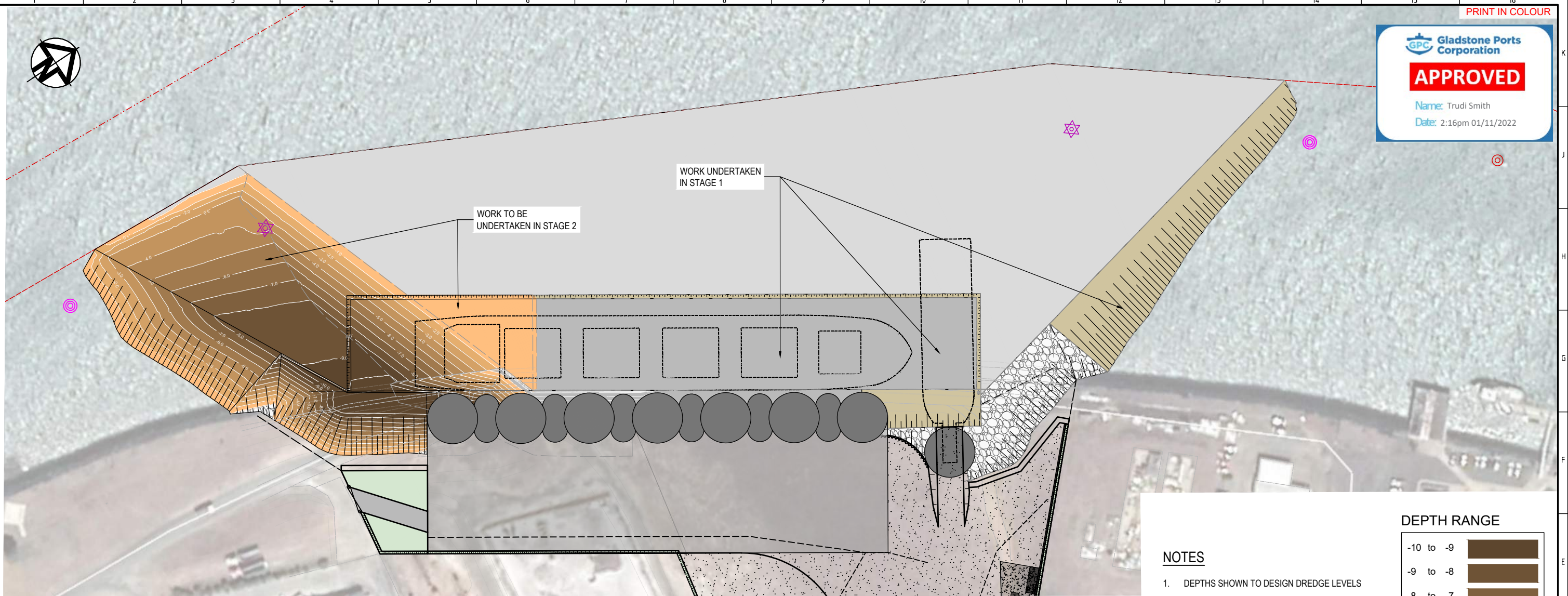
DRG NO. **0888- K0550**

REV **A**



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Name: Trudi Smith
Date: 2:16pm 01/11/2022



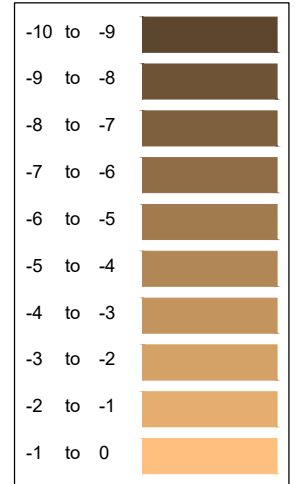
PLAN
SCALE 1:750

NOTES

1. DEPTHS SHOWN TO DESIGN DREDGE LEVELS
2. ALL VOLUMES ARE IN-SITU CUBIC METRES
3. STAGED VOLUMES ASSUME THE PREVIOUS STAGE HAS BEEN COMPLETED
4. CONTOURS SHOWN ON THIS PLAN ARE DEPTHS BETWEEN THE VOLUME SURFACES.
5. EARTHWORKS:
 FILL
 MATERIAL PLACED FROM EXISTING SURFACE TO DESIGN LEVELS.

 CUT
 EXCAVATION TO DESIGN DREDGE LEVELS

DEPTH RANGE



STAGE 1 DREDGE VOLUMES

ALL VOLUMES IN SITU CUBIC METRES ALL LEVELS ARE TO LAT

ZONE	SURFACE AREA (PLAN AREA m ²)	DECLARED DEPTH VOLUME (m ³)	INSURANCE VOLUME (m ³)	OVERDREDGE VOLUME (m ³)
TOTAL				
DEPARTURE CHANNEL AND 1:3 BATTERS (DECLARED DEPTH -7.0 LAT)	31,006	162,784	175,275	183,637
BERTH POCKET, WHARF PILES AND ROCK SCOUR AREAS (DECLARED DEPTH -7.5 LAT)	11,068	94,752	98,139	100,396
TOTAL	42,074	257,536	273,414	284,034

STAGE 2 DREDGE VOLUMES (STAGE 1 COMPLETED)

ALL VOLUMES IN SITU CUBIC METRES ALL LEVELS ARE TO LAT

ZONE	SURFACE AREA (PLAN AREA m ²)	DECLARED DEPTH VOLUME (m ³)	INSURANCE VOLUME (m ³)	OVERDREDGE VOLUME (m ³)
TOTAL				
DEPARTURE CHANNEL AND 1:3 BATTERS (DECLARED DEPTH -9.0 LAT)	6,170	28,157	30,430	31,951
BERTH POCKET, WHARF PILES AND ROCK SCOUR AREAS (DECLARED DEPTH -9.5 LAT)	4,620	20,193	21,352	22,125
TOTAL	10,790	48,350	51,782	54,076

TOTAL DREDGE VOLUMES (STAGE 1 AND STAGE 2)

ALL VOLUMES IN SITU CUBIC METRES ALL LEVELS ARE TO LAT

ZONE	SURFACE AREA (PLAN AREA m ²)	DECLARED DEPTH VOLUME (m ³)	INSURANCE VOLUME (m ³)	OVERDREDGE VOLUME (m ³)
TOTAL				
DEPARTURE CHANNEL AND 1:3 BATTERS (DECLARED DEPTH -9.0 LAT)	34,017	190,941	205,705	215,588
BERTH POCKET, WHARF PILES AND ROCK SCOUR AREAS (DECLARED DEPTH -9.5 LAT)	13,288	114,945	119,491	122,521
TOTAL	47,305	305,886	325,196	338,110

STG 2 BULK EARTHWORK VOLUMES TABLE

DEPTH		VOLUME (m ³)	
FROM	TO	CUT	FILL
-15.000	-9.000	-1282.808	0.000
-9.000	-8.000	-1476.199	0.000
-8.000	-7.000	-2338.485	0.000
-7.000	-6.000	-3125.769	0.000
-6.000	-5.000	-4001.379	0.000
-5.000	-4.000	-5009.037	0.000
-4.000	-3.000	-6217.571	0.000
-3.000	-2.000	-7244.009	0.000
-2.000	-1.000	-8144.621	0.000
-1.000	0.000	-9511.406	0.000
Total cut		-48351.286	

REV	DATE	DESCRIPTION	BY	REVIEWED	APPROVED
A	25.6.22	ISSUED FOR DEVELOPMENT APPROVAL	MC	JL	-

CONSULTANT LOGO



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
SURVEY / DESIGN REFERENCES
 Survey By - INSITE SJC
 Dated - 03.08.2021
 Horizontal datum - MGA 94 ZONE 56
 PM 3853
 Vertical datum - AHD (LAND BASED)
 LAT (MARINE - WHERE NOTED)

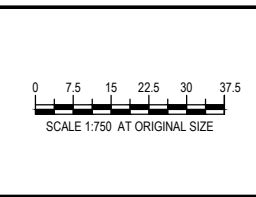
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Pacific Marine Base
Ship Repair | Barging | Project Support

DESIGNED BY	J.LAWLEY	MAY 2022
DES CHK	-	-
DRAWN	M.COLLINGS	MAY 2022
DRG CHK	J.LAWLEY	JUN 2022
REGISTERED PROFESSIONAL	J.LAWLEY	
REGISTRATION	LONJAC PTY LTD	
SIGNATURE		
No.	22281	
Date.	29.6.2022	



PROJECT

**PACIFIC MARINE BASE BUNDABERG
MARINE INDUSTRY SITE**

DRAWING TITLE
**STAGE 2
VOLUMES PLAN**

SCALE AS SHOWN

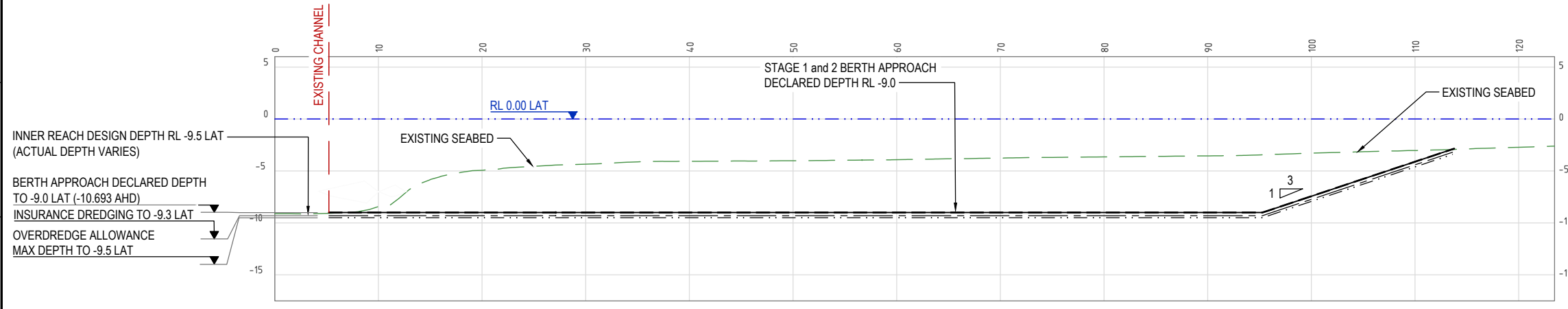
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REV **A**

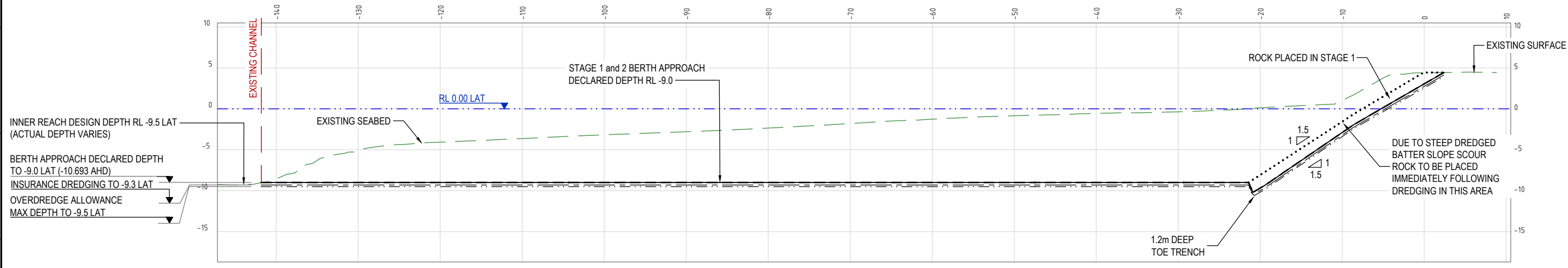
GPC Gladstone Ports Corporation

APPROVED

Name: Trudi Smith
Date: 2:17pm 01/11/2022



SITE SECTION A
SCALE 1:250
0510,0550



SITE SECTION B
SCALE 1:250
0510,0550

REV	DATE	DESCRIPTION	BY	REVIEWED	APPROVED
A	25.6.22	ISSUED FOR DEVELOPMENT APPROVAL	MC	JL	-

CONSULTANT LOGO

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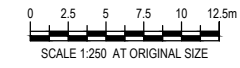
SURVEY / DESIGN REFERENCES
Survey By - INSITE SJC
Dated - 03.08.2021
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Ship Repair | Barging | Project Support

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DRG CHK	J.LAWLEY	JUN 2022
REGISTERED PROFESSIONAL	J.LAWLEY	
REGISTRATION	LONJAC PTY LTD	
SIGNATURE	<i>[Signature]</i>	
No.	22281	
Date	29.6.2022	



PROJECT
PACIFIC MARINE BASE BUNDABERG
MARINE INDUSTRY SITE

DRAWING TITLE
STAGES 1 AND 2
TYPICAL SECTIONS AND DETAILS SHEET 1

SCALE AS SHOWN

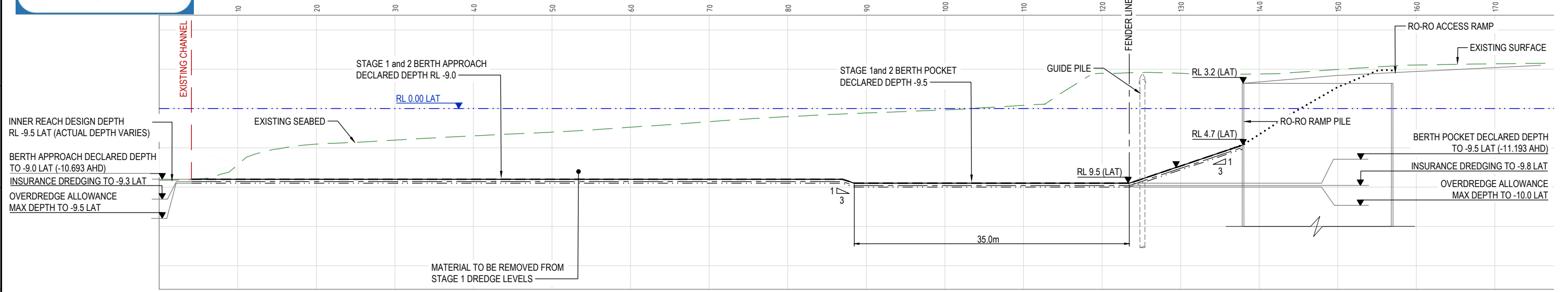
DRG NO. **0888- K0570**

REV **A**

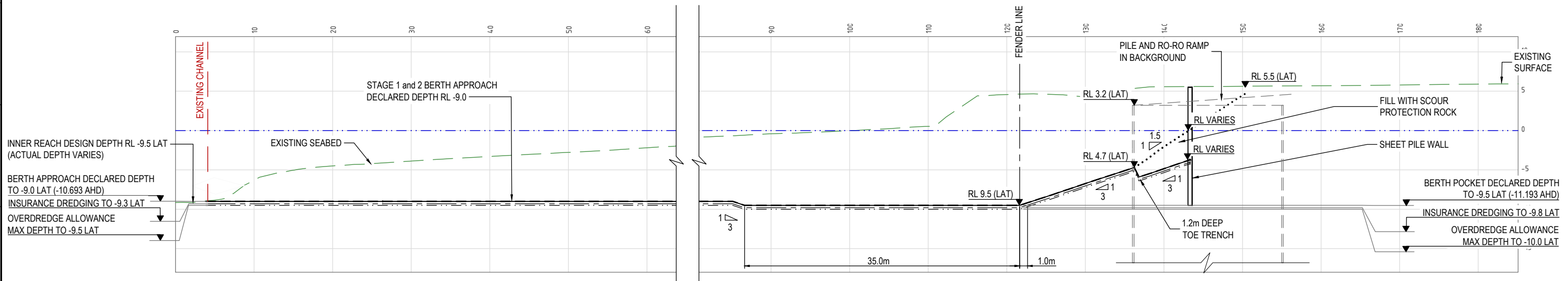
GPC Gladstone Ports Corporation

APPROVED

Name: Trudi Smith
Date: 2:18pm 01/11/2022



SITE SECTION C
SCALE 1:250
0510,0550



SITE SECTION D
SCALE 1:250
0510,0550

REV	DATE	DESCRIPTION	BY	REVIEWED	APPROVED
A	25.6.22	ISSUED FOR DEVELOPMENT APPROVAL	MC	JL	-

CONSULTANT LOGO

LONJAC
CIVIL • MARINE • MANAGEMENT

976 PINE CREEK ROAD,
Electra,
Queensland, 4670
Ph +61 (0) 499 000 202
jim@lonjac.net.au

SURVEY / DESIGN REFERENCES

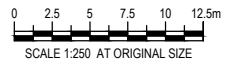
Survey By - INSITE SJC
Dated - 03.08.2021
Horizontal datum - MGA 94 ZONE 56
PM 3853
Vertical datum - AHD (LAND BASED)
LAT (MARINE - WHERE NOTED)

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CLIENT

BUNDABERG
Pacific Marine Base
Ship Repair | Barging | Project Support

DESIGNED BY	J.LAWLEY	MAY 2022
DES CHK	-	-
DRAWN	M.COLLINGS	MAY 2022
DRG CHK	J.LAWLEY	JUN 2022
REGISTERED PROFESSIONAL	J.LAWLEY	
REGISTRATION	LONJAC PTY LTD	
SIGNATURE		
No.	22281	
Date	29.6.2022	



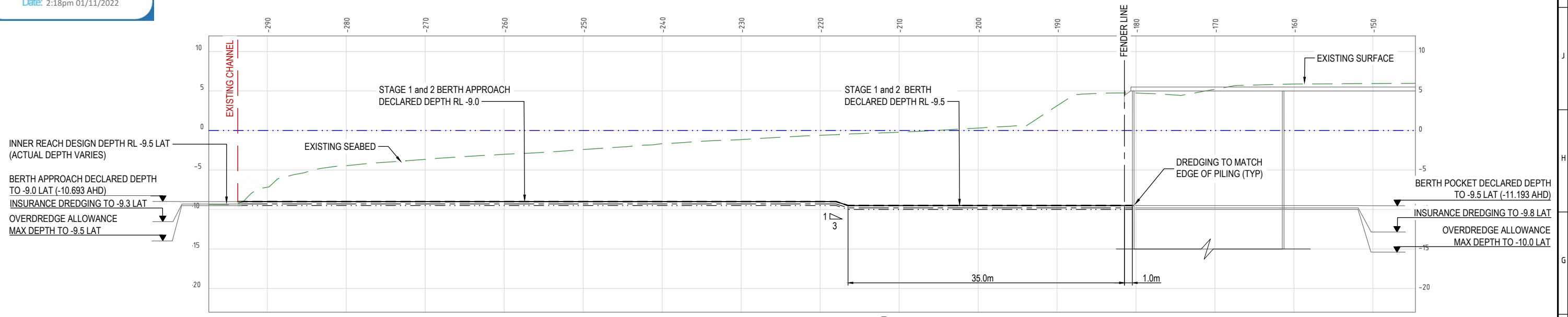
PROJECT
PACIFIC MARINE BASE BUNDABERG
MARINE INDUSTRY SITE

DRAWING TITLE
STAGES 1 AND 2
TYPICAL SECTIONS AND DETAILS SHEET 2

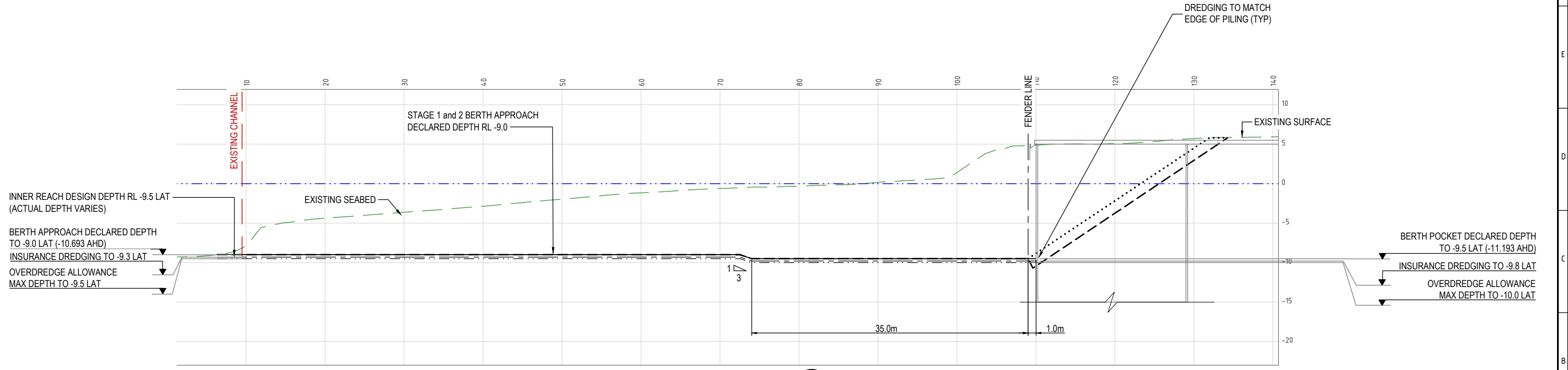
SCALE AS SHOWN

DRG NO. **0888- K0571**

REV **A**



SITE SECTION E
SCALE 1:250
0510,0550



SITE SECTION F
SCALE 1:250
0550

REV	DATE	DESCRIPTION	BY	REVIEWED	APPROVED
A	25.6.22	ISSUED FOR DEVELOPMENT APPROVAL	MC	JL	-

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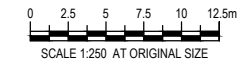
SURVEY / DESIGN REFERENCES
Survey By - INSITE SJC
Dated - 03.08.2021
Horizontal datum - MGA 94 ZONE 56
PM 3853
Vertical datum - AHD (LAND BASED)
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DES CHK	-	-
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REGISTERED PROFESSIONAL	J.LAWLEY	
REGISTRATION	LONJAC PTY LTD	
SIGNATURE		
No.	22281	
Date	29.6.2022	



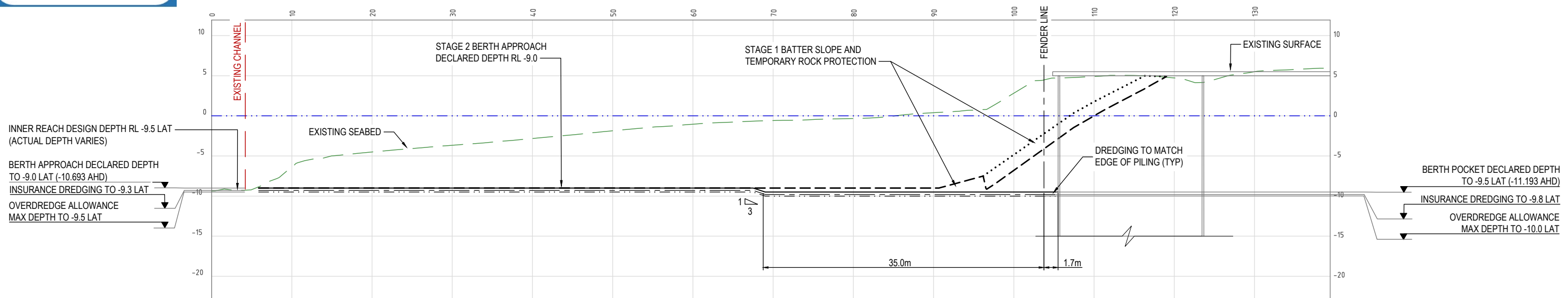
PROJECT
PACIFIC MARINE BASE BUNDABERG
MARINE INDUSTRY SITE

DRAWING TITLE
STAGES 1 AND 2
TYPICAL SECTIONS AND DETAILS SHEET 3

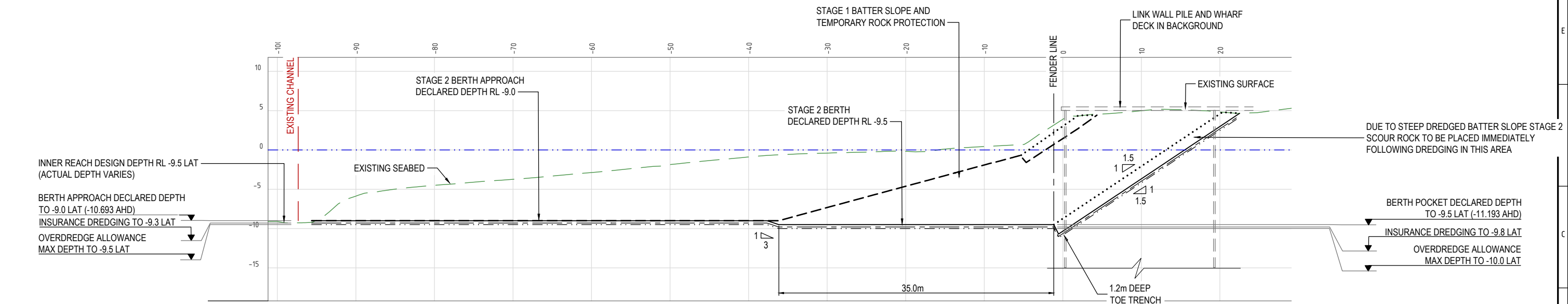
SCALE	AS SHOWN	DRG NO.	0888- K0573	REV	A
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APPROVED

Name: Trudi Smith
Date: 2:18pm 01/11/2022



SITE SECTION
SCALE 1:250
G
0550



SITE SECTION
SCALE 1:250
H
0550

REV	DATE	DESCRIPTION	BY	REVIEWED	APPROVED
A	25.6.22	ISSUED FOR DEVELOPMENT APPROVAL	MC	JL	-

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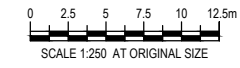
SURVEY / DESIGN REFERENCES
Survey By - INSITE SJC
Dated - 03.08.2021
Horizontal datum - MGA 94 ZONE 56
PM 3853
Vertical datum - AHD (LAND BASED)
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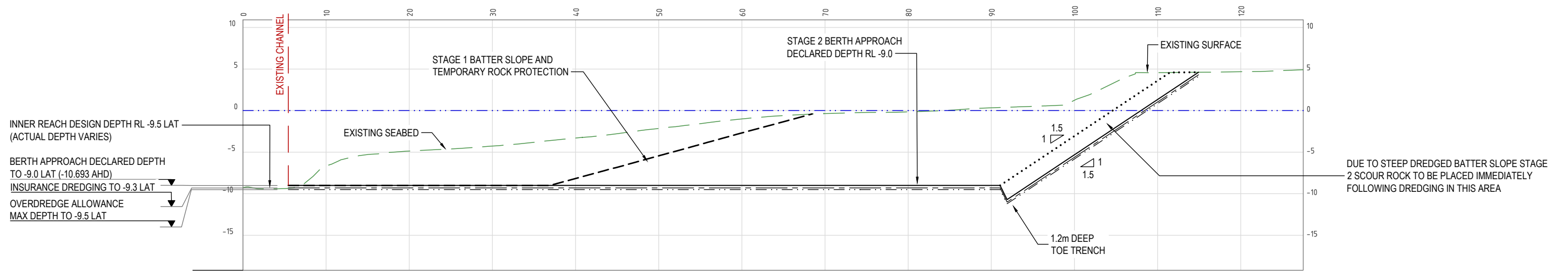
DESIGNED BY	J.LAWLEY	MAY 2022
DES CHK	-	-
DRAWN	M.COLLINGS	MAY 2022
DRG CHK	J.LAWLEY	JUN 2022
REGISTERED PROFESSIONAL	J.LAWLEY	
REGISTRATION	LONJAC PTY LTD	
SIGNATURE	<i>[Signature]</i>	
No.	22281	
Date	29.6.2022	



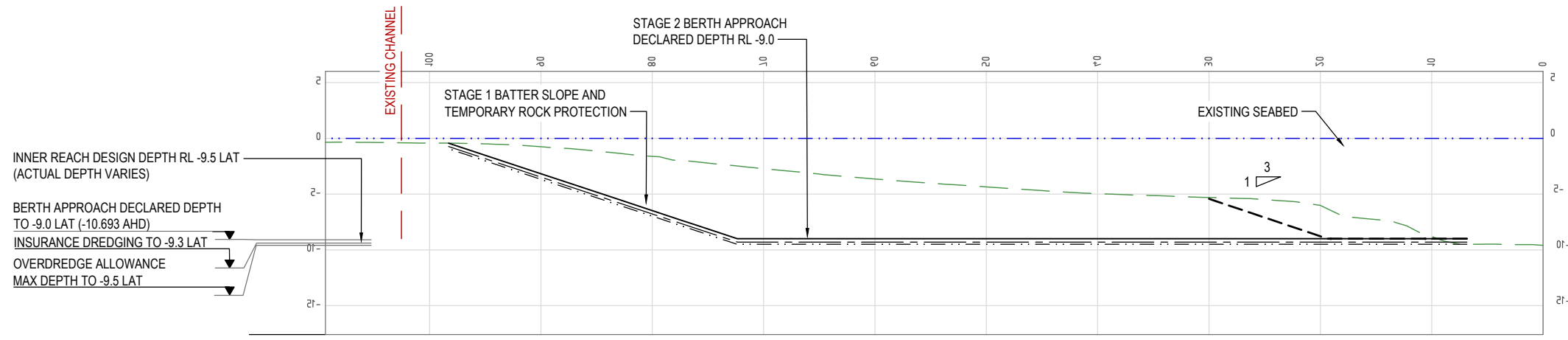
PROJECT
PACIFIC MARINE BASE BUNDABERG
MARINE INDUSTRY SITE

DRAWING TITLE
STAGES 1 AND 2
TYPICAL SECTIONS AND DETAILS SHEET 4

SCALE	AS SHOWN	DRG NO.	0888- K0573	REV	A
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SITE SECTION J
SCALE 1:250



SITE SECTION K
SCALE 1:250

REV	DATE	DESCRIPTION	BY	REVIEWED	APPROVED
A	25.6.22	ISSUED FOR DEVELOPMENT APPROVAL	MC	JL	-

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SURVEY / DESIGN REFERENCES

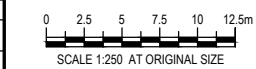
Survey By - INSITE SJC
 Dated - 03.08.2021
 Horizontal datum - MGA 94 ZONE 56
 PM 3853
 Vertical datum - AHD (LAND BASED)
 LAT (MARINE - WHERE NOTED)

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Pacific Marine Base
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DESIGNED BY	J.LAWLEY	MAY 2022
DES CHK	-	-
DRAWN	M.COLLINGS	MAY 2022
DRG CHK	J.LAWLEY	JUN 2022
REGISTERED PROFESSIONAL	J.LAWLEY	
REGISTRATION	LONJAC PTY LTD	
SIGNATURE	<i>[Signature]</i>	
No.	22281	
Date.	29.6.2022	



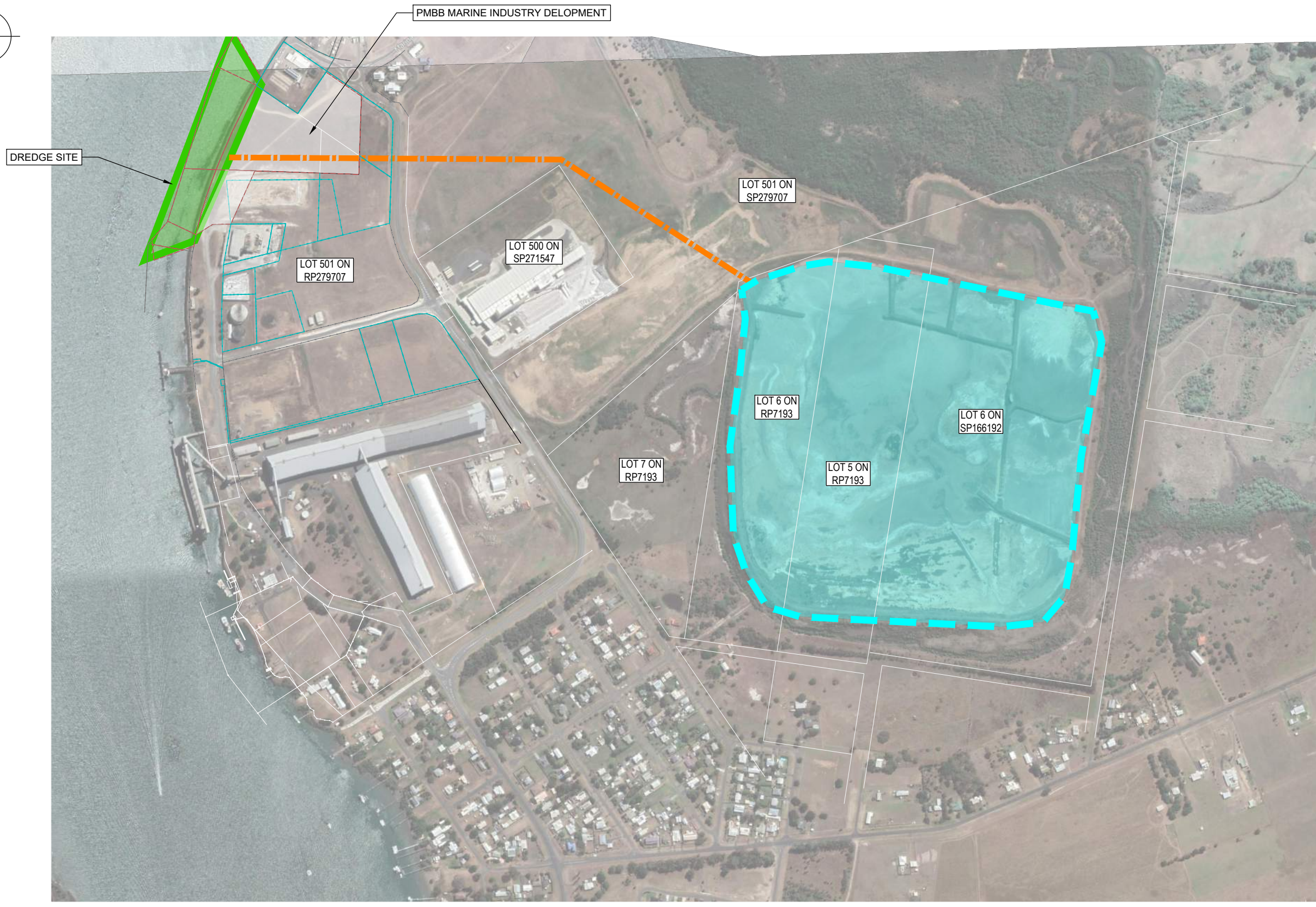
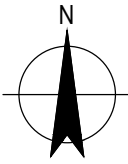
PROJECT
PACIFIC MARINE BASE BUNDABERG
MARINE INDUSTRY SITE

DRAWING TITLE
STAGES 1 AND 2
TYPICAL SECTIONS AND DETAILS SHEET 5

SCALE AS SHOWN

DRG NO. 0888- K0574

REV A



- LEGEND**
- PORT OF BUNDABERG MATERIAL RECLAMATION AREA (MRA)
 - DREDGE MATERIAL LINE
 - DREDGE AREA
 - LEASE BOUNDARY
 - SURVEYED CADASTRE BOUNDARY
 - BOUNDARY (OTHER)
 - FENCE

DREGING AND RECLMATION PLAN
SCALE 1:4000

APPROVED

Name: Trudi Smith
Date: 2:19pm 01/11/2022

REV	DATE	DESCRIPTION	BY	REVIEWED	APPROVED
A	25.6.22	ISSUED FOR DEVELOPMENT APPROVAL	MC	JL	-

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SURVEY / DESIGN REFERENCES

Survey By - INSITE SJC
Dated - 03.08.2021
Horizontal datum - MGA 94 ZONE 56
PM 3853
Vertical datum - AHD (LAND BASED)
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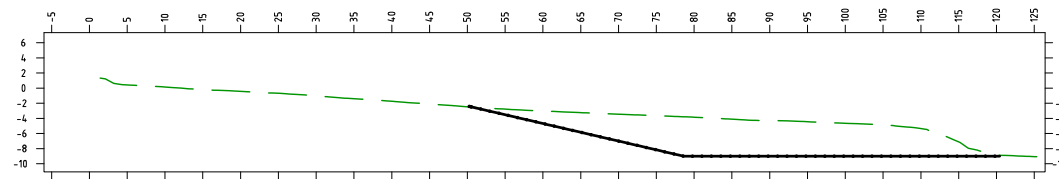
Pacific Marine Base
Ship Repair | Barging | Project Support

<small>DESIGNED BY</small>	JLAWLEY	MAY 2022
<small>DES CHK</small>	-	-
<small>DRAWN</small>	M.COLLINGS	MAY 2022
<small>DRG CHK</small>	JLAWLEY	JUN 2022
<small>REGISTERED PROFESSIONAL</small>	JLAWLEY	
<small>REGISTRATION</small>	LONJAC PTY LTD	
<small>SIGNATURE</small>		
<small>No.</small>	22281	
<small>Date.</small>	2	-

<small>PROJECT</small>		
PACIFIC MARINE BASE BUNDABERG MARINE INDUSTRY SITE		
<small>DRAWING TITLE</small>		
STAGES 1 AND 2 DREDGING AND RECLAMATION PLAN		
<small>SCALE</small>	<small>DRG NO.</small>	<small>REV</small>
AS SHOWN	0888 - K0600	A

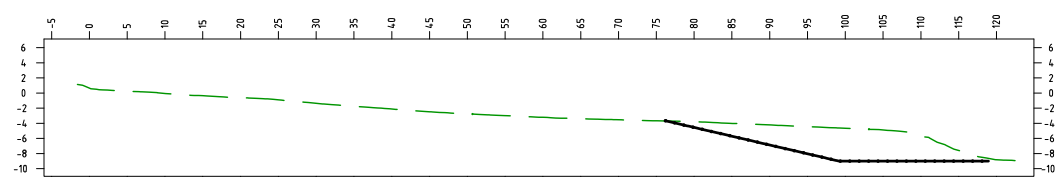
APPROVED

Name: Trudi Smith
Date: 2:19pm 01/11/2022



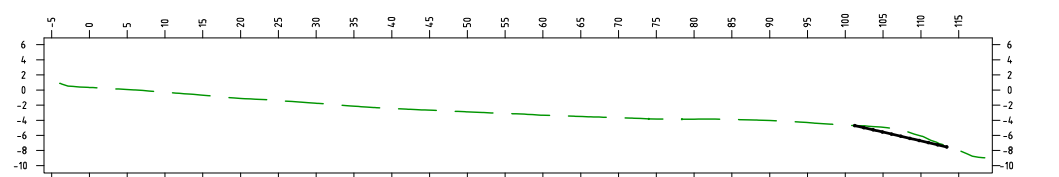
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STAGE 2 DREDGE																										
STAGE 1 DREDGE																										
EXISTING SURFACE			0.15	-0.43	-1.03	-1.74	-2.47	-2.52	-4.68	-7.00	-9.00	-9.00	-9.00	-9.00	-9.00	-9.00	-9.00	-9.00	-9.00	-9.00	-9.00	-9.00	-9.00	-9.00	-9.00	
OFFSET		-5.00	0.00	10.00	20.00	30.00	40.00	50.00	50.72	60.00	70.00	78.60	80.00	90.00	100.00	110.00	120.00	120.43	125.43							

CH-80



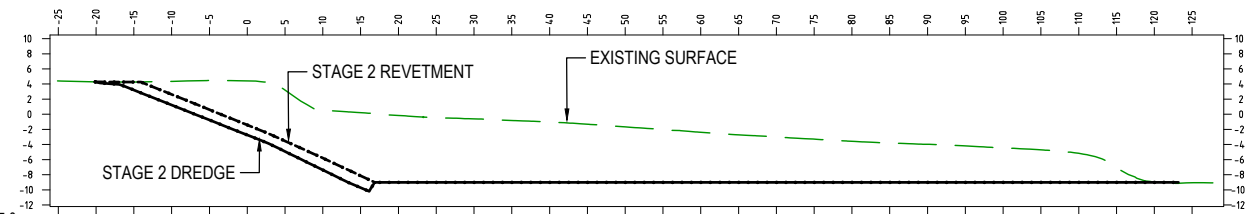
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STAGE 2 DREDGE																									
STAGE 1 DREDGE																									
EXISTING SURFACE			0.65	-0.05	-0.62	-1.36	-2.11	-2.75	-3.21	-3.53	-3.69	-3.69	-3.78	-4.21	-4.62	-4.65	-5.74	-6.87	-8.87	-8.87	-8.87	-8.87	-8.87	-8.87	-8.87
OFFSET		-5.00	0.00	10.00	20.00	30.00	40.00	50.00	60.00	70.00	76.31	80.00	90.00	99.18	100.00	110.00	118.95	120.00	123.95						

CH-100



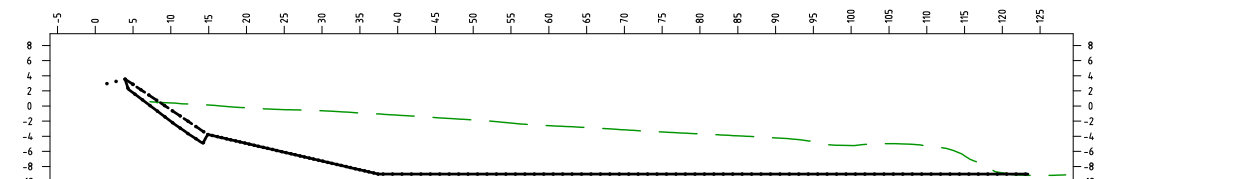
Dtm -14.0		5	10	15	20	25	30	35	40	45	50	55	60	65	70	75	80	85	90	95	100	105	110	115
STAGE 2 DREDGE																								
STAGE 1 DREDGE																								
EXISTING SURFACE			0.34	-0.30	-1.12	-1.75	-2.43	-2.89	-3.34	-3.67	-3.86	-4.04	-4.65	-4.71	-6.08	-7.43	-8.95							
OFFSET		-5.00	0.00	10.00	20.00	30.00	40.00	50.00	60.00	70.00	80.00	90.00	100.00	101.27	110.00	113.46	118.46							

CH-120



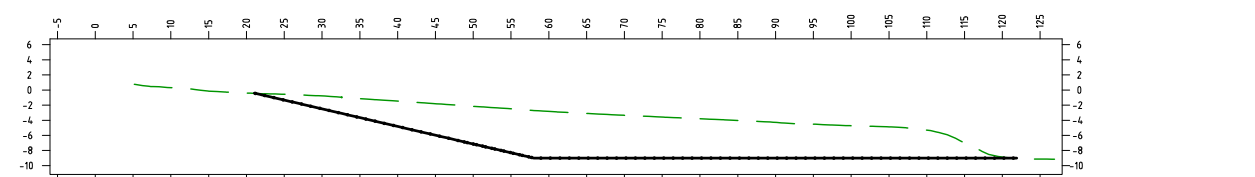
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STAGE 2 DREDGE																										
STAGE 1 DREDGE																										
EXISTING SURFACE			4.29	4.28	4.28	4.35	4.40	4.28	0.53	0.14	0.09	-0.16	-0.61	-1.03	-1.67	-2.38	-2.99	-3.57	-3.97	-4.45	-5.16	-8.97	-9.13	-9.07		
OFFSET		-25.10	-20.10	-20.00	-10.00	0.00	2.78	10.00	16.13	16.85	20.00	30.00	40.00	50.00	60.00	70.00	80.00	90.00	100.00	110.00	120.00	123.20	128.20			

CH-20



Dtm -14.0		5	10	15	20	25	30	35	40	45	50	55	60	65	70	75	80	85	90	95	100	105	110	115	120
STAGE 2 DREDGE																									
STAGE 1 DREDGE																									
EXISTING SURFACE			3.56	2.21	-2.03	-4.94	-3.76	-4.95	-7.27	-9.00	-9.00	-9.00	-9.00	-9.00	-9.00	-9.00	-9.00	-9.00	-9.00	-9.00	-9.00	-9.00	-9.00	-9.00	
OFFSET		-5.00	0.00	3.93	4.37	10.00	14.24	14.69	20.00	30.00	37.44	40.00	50.00	60.00	70.00	80.00	90.00	100.00	110.00	120.00	123.38	128.38			

CH-40



Dtm -14.0		5	10	15	20	25	30	35	40	45	50	55	60	65	70	75	80	85	90	95	100	105	110	115	120
STAGE 2 DREDGE																									
STAGE 1 DREDGE																									
EXISTING SURFACE			0.31	-0.40	-0.45	-0.78	-1.46	-2.16	-2.71	-2.83	-3.35	-3.80	-4.28	-4.72	-5.31	-8.96	-9.05	-9.18							
OFFSET		-5.00	0.00	10.00	20.00	21.22	30.00	40.00	50.00	58.02	60.00	70.00	80.00	90.00	100.00	110.00	120.00	121.90	126.90						

CH-60

REV	DATE	DESCRIPTION	BY	REVIEWED	APPROVED
A	25.6.22	ISSUED FOR DEVELOPMENT APPROVAL	MC	JL	-

CONSULTANT LOGO

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jim@lonjac.net.au

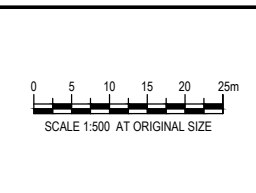
SURVEY / DESIGN REFERENCES
Survey By - INSITE SJC
Dated - 03.08.2021
Horizontal datum - MGA 94 ZONE 56
PM 3853
Vertical datum - AHD (LAND BASED)
LAT (MARINE - WHERE NOTED)

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Pacific Marine Base
Ship Repair | Barging | Project Support

DESIGNED BY	J.LAWLEY	MAY 2022
DES CHK	-	-
DRAWN	M.COLLINGS	MAY 2022
DRG CHK	J.LAWLEY	JUN 2022
REGISTERED PROFESSIONAL	J.LAWLEY	
REGISTRATION	LONJAC PTY LTD	
SIGNATURE		
No.	22281	
Date.	29.6.2022	



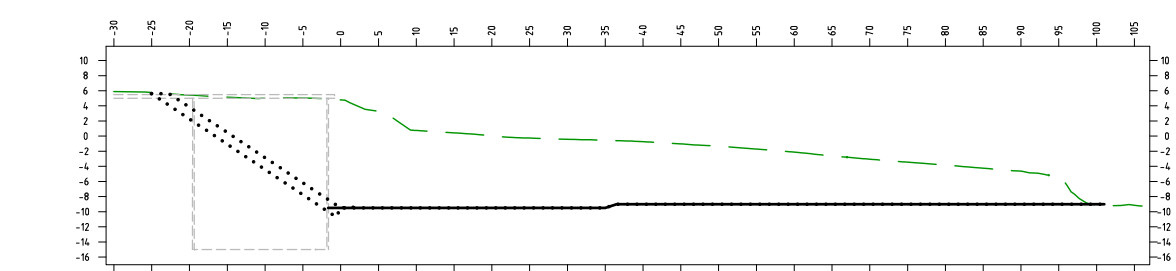
PROJECT
PACIFIC MARINE BASE BUNDABERG
MARINE INDUSTRY SITE

DRAWING TITLE
STAGES 1 AND 2
SITE CROSS SECTIONS SHEET 1

SCALE
AS SHOWN

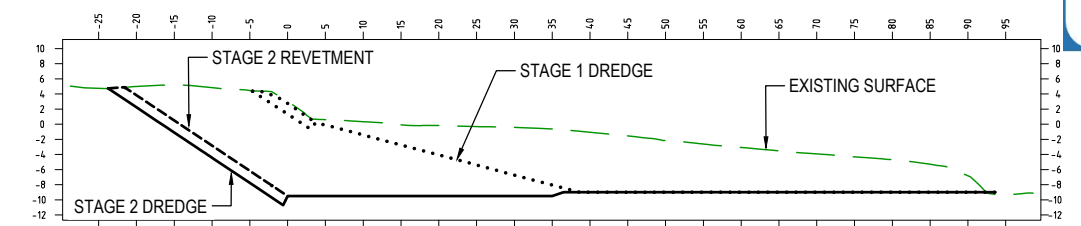
DRG NO.
0888- K0650

REV
A



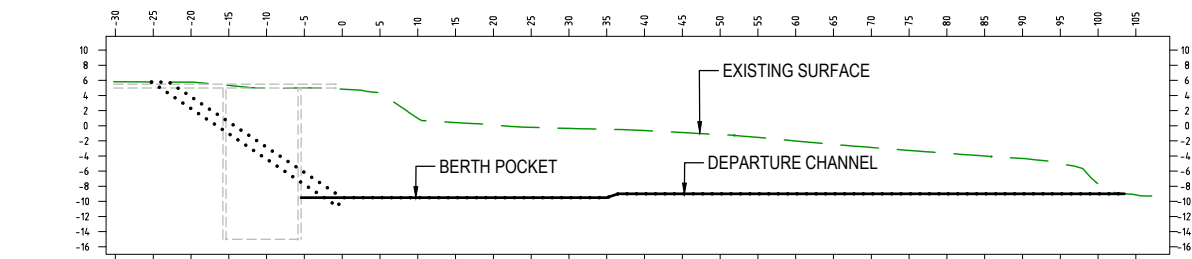
Dtm -20.0															
STAGE 2 DREDGE															
STAGE 1 DREDGE		5.63	2.26	2.00	4.42	-10.03	-10.70	-9.50	-9.50	-9.50	-9.50	-9.50	-9.50	-9.50	-9.50
EXISTING SURFACE	5.89	3.89	5.77	5.43	5.41	5.00	4.90	4.83	4.79	4.79	4.79	4.79	4.79	4.79	4.79
OFFSET	-30.03	-30.00	-25.03	-20.00	-19.60	-10.00	-1.61	-0.60	0.00	10.00	20.00	30.00	35.00	40.00	50.00

CH 160



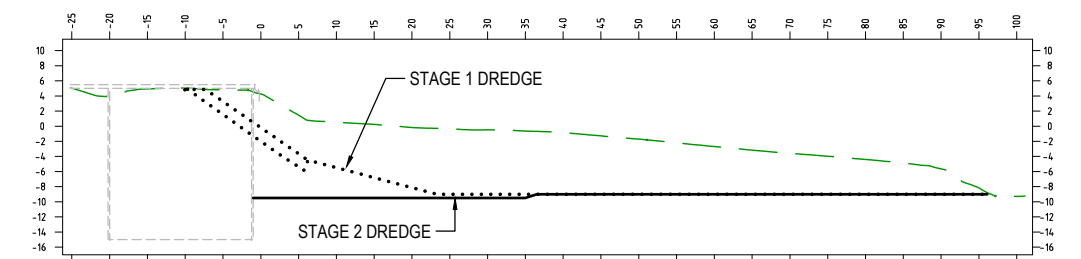
Dtm -16.0															
STAGE 2 DREDGE	4.74	2.23													
STAGE 1 DREDGE															
EXISTING SURFACE	5.04	4.71	5.00	4.83	4.42	4.36	3.36	1.33	0.00	3.02	3.68	0.66	0.34	-0.17	-0.42
OFFSET	-28.76	-23.76	-20.00	-10.00	-4.64	-0.60	-0.60	-0.60	-0.60	-0.60	-0.60	-0.60	-0.60	-0.60	-0.60

CH 220



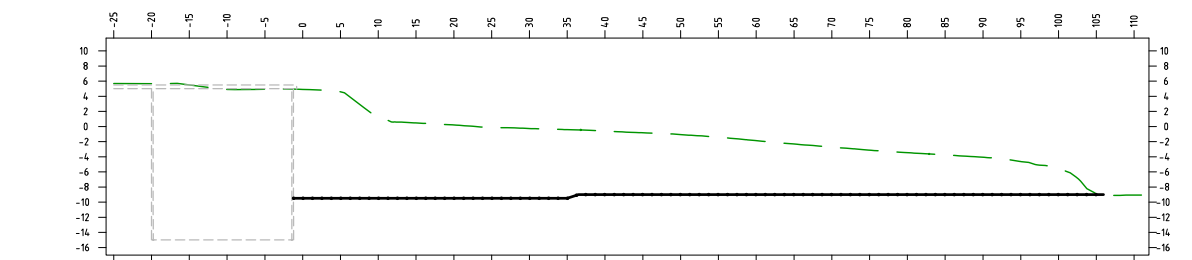
Dtm -20.0															
STAGE 2 DREDGE															
STAGE 1 DREDGE		5.78	2.29	-0.54	-4.41	-7.47	-10.70	-9.50	-9.50	-9.50	-9.50	-9.50	-9.50	-9.50	-9.50
EXISTING SURFACE	5.82	5.82	5.80	5.78	5.42	4.99	5.01	4.88	4.85	4.85	4.85	4.85	4.85	4.85	4.85
OFFSET	-30.23	-25.23	-20.00	-15.78	-10.00	-5.43	-0.60	0.00	10.00	20.00	30.00	35.00	40.00	50.00	60.00

CH 140



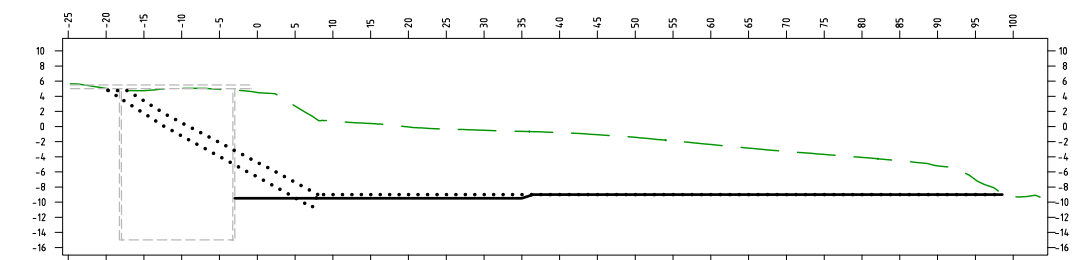
Dtm -20.0															
STAGE 2 DREDGE															
STAGE 1 DREDGE															
EXISTING SURFACE	5.04	4.01	4.06	5.05	5.04	4.53	4.26	2.00	5.70	1.02	0.78	4.49	5.49	-0.17	-0.29
OFFSET	-25.21	-20.21	-20.00	-10.00	-9.68	-1.00	0.00	0.00	6.22	10.00	10.00	10.00	10.00	20.00	23.32

CH 200



Dtm -20.0															
STAGE 2 DREDGE															
STAGE 1 DREDGE															
EXISTING SURFACE	5.54	5.66	4.90	4.94	4.91	1.36	0.21	-0.27	-0.41	-0.45	-0.60	-1.07	-1.87	-2.72	-3.46
OFFSET	-25.00	-20.00	-10.00	-1.21	0.00	10.00	20.00	30.00	35.00	40.00	50.00	60.00	70.00	80.00	90.00

CH 120



Dtm -20.0															
STAGE 2 DREDGE															
STAGE 1 DREDGE															
EXISTING SURFACE	5.65	5.04	5.00	4.76	5.04	4.81	4.50	1.36	0.84	0.72	0.06	-0.49	-0.64	-0.80	-1.43
OFFSET	-24.74	-20.00	-19.74	-18.25	-10.00	-2.96	0.00	7.27	8.02	10.00	20.00	30.00	35.00	40.00	50.00

CH 180

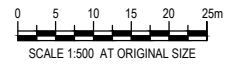
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A	25.6.22	ISSUED FOR DEVELOPMENT APPROVAL	MC	JL	-

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SURVEY / DESIGN REFERENCES
 Survey By - INSITE SJC
 Dated - 03.08.2021
 Horizontal datum - MGA 94 ZONE 56
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DESIGNED BY	JLAWLEY	MAY 2022
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DRAWN	M.COLLINGS	MAY 2022
DRG CHK	JLAWLEY	JUN 2022
REGISTERED PROFESSIONAL	JLAWLEY	
REGISTRATION	LONJAC PTY LTD	
SIGNATURE		
No.	22281	
Date	29.6.2022	

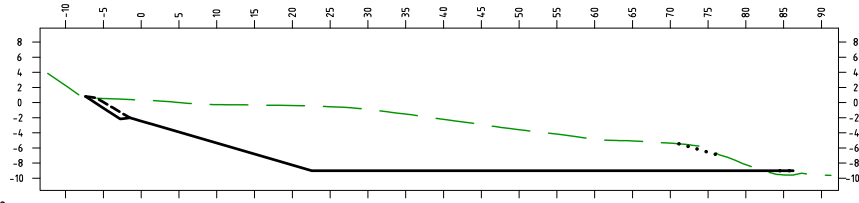


PROJECT
PACIFIC MARINE BASE BUNDABERG
MARINE INDUSTRY SITE
 DRAWING TITLE
STAGES 1 AND 2
SITE CROSS SECTIONS SHEET 3
 SCALE AS SHOWN
 DRG NO. **0888- K0652**
 REV **A**



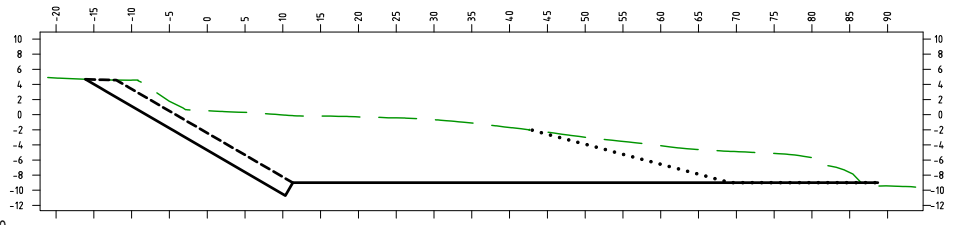
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Date: 2:20pm 01/11/2022



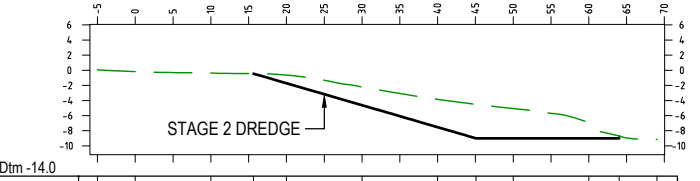
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STAGE 1 DREDGE	-5.45 -7.06 -9.00 -9.00
EXISTING SURFACE	3.96 2.25 0.66 0.47 0.33 -0.27 -0.39 -0.45 -0.89 -2.21 -3.58 -4.85 -5.36 -5.45 -7.06 -8.22 -9.52 -9.58 -9.54 -9.58
OFFSET	-12.37 -10.00 -7.37 -2.79 -1.49 0.00 10.00 20.00 22.57 30.00 40.00 50.00 60.00 70.00 71.14 77.02 80.00 84.49 86.25 90.00 91.25

CH 280



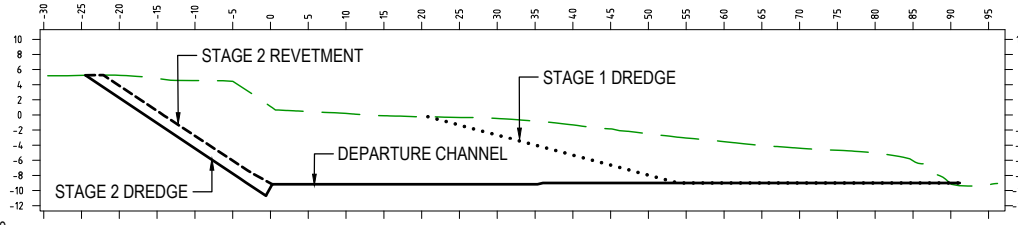
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STAGE 1 DREDGE	-2.06 -3.92 -6.56 -9.00 -9.00 -9.00 -9.00
EXISTING SURFACE	4.92 4.85 4.67 4.57 0.52 -0.05 -0.07 -0.13 -0.30 -0.67 -1.70 -2.06 -2.99 -4.10 -4.86 -4.89 -5.69 -9.45 -9.44 -9.59
OFFSET	-21.10 -20.00 -16.10 -10.00 0.00 10.00 10.33 11.32 20.00 30.00 40.00 43.00 50.00 60.00 69.20 70.00 80.00 88.71 90.00 93.71

CH 260



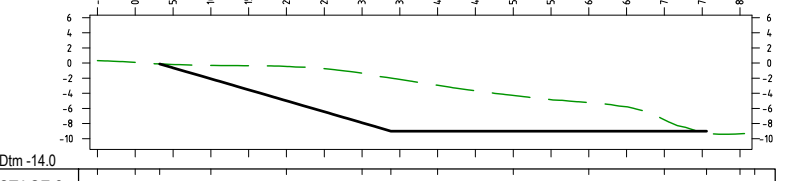
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STAGE 1 DREDGE	-9.00 -9.00 -9.00 -9.00
EXISTING SURFACE	0.07 -0.18 -0.37 -0.43 -0.64 -2.21 -3.84 -4.53 -5.07 -7.10 -8.71 -9.15
OFFSET	-5.00 0.00 10.00 15.63 20.00 30.00 40.00 45.08 50.00 60.00 64.02 69.02

CH 320



Dtm -16.0	
STAGE 2 DREDGE	5.24 2.25 -4.43 -10.70 -9.58 -9.17 -9.17 -9.17 -9.17 -9.00 -9.00 -9.00 -9.00 -9.00 -9.00 -9.00 -9.00 -9.00 -9.00 -9.00
STAGE 1 DREDGE	-2.23 -2.67 -4.38 -5.30 -7.96 -9.00 -9.00 -9.00 -9.00 -9.00 -9.00 -9.00 -9.00 -9.00 -9.00 -9.00 -9.00 -9.00 -9.00 -9.00
EXISTING SURFACE	5.18 5.25 5.24 4.55 1.54 1.13 0.96 0.20 -0.23 -0.23 -0.47 -0.93 -1.32 -2.48 -2.95 -3.53 -4.40 -5.04 -9.10 -9.36 -9.07
OFFSET	-29.47 -24.47 -20.00 -10.00 -0.60 0.00 0.23 10.00 20.83 20.83 30.00 36.50 40.00 50.00 53.91 60.00 70.00 80.00 90.00 91.18 96.18

CH 240



Dtm -14.0	
STAGE 2 DREDGE	-0.11 -2.08 -4.98 -7.89 -9.00 -9.00 -9.00 -9.00 -9.00 -9.00 -9.00
STAGE 1 DREDGE	-9.00 -9.00 -9.00 -9.00 -9.00 -9.00 -9.00 -9.00
EXISTING SURFACE	0.34 0.10 -0.11 -0.31 -0.45 -1.34 -1.98 -2.93 -4.28 -5.23 -7.50 -9.29 -9.36 -9.33
OFFSET	-5.00 0.00 3.23 10.00 20.00 30.00 33.83 40.00 50.00 60.00 70.00 75.59 80.00 80.59

CH 300

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Survey By - INSITE SJC
Dated - 03.08.2021
Horizontal datum - MGA 94, ZONE 56
PM 3853
Vertical datum - AHD (LAND BASED)
LAT (MARINE - WHERE NOTED)

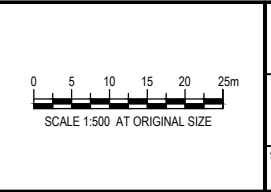
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Ship Repair | Barging | Project Support

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DRAWN	M.COLLINGS	MAY 2022
DRG CHK	J.LAWLEY	JUN 2022
REGISTERED PROFESSIONAL	J.LAWLEY	
REGISTRATION	LONJAC PTY LTD	
SIGNATURE		
No.	22281	
Date.	29.6.2022	



PROJECT
PACIFIC MARINE BASE BUNDABERG
MARINE INDUSTRY SITE

DRAWING TITLE
STAGES 1 AND 2
SITE CROSS SECTIONS SHEET 4

SCALE AS SHOWN

DRG NO. **0888- K0653**

REV **A**

LEGEND - MARITIME

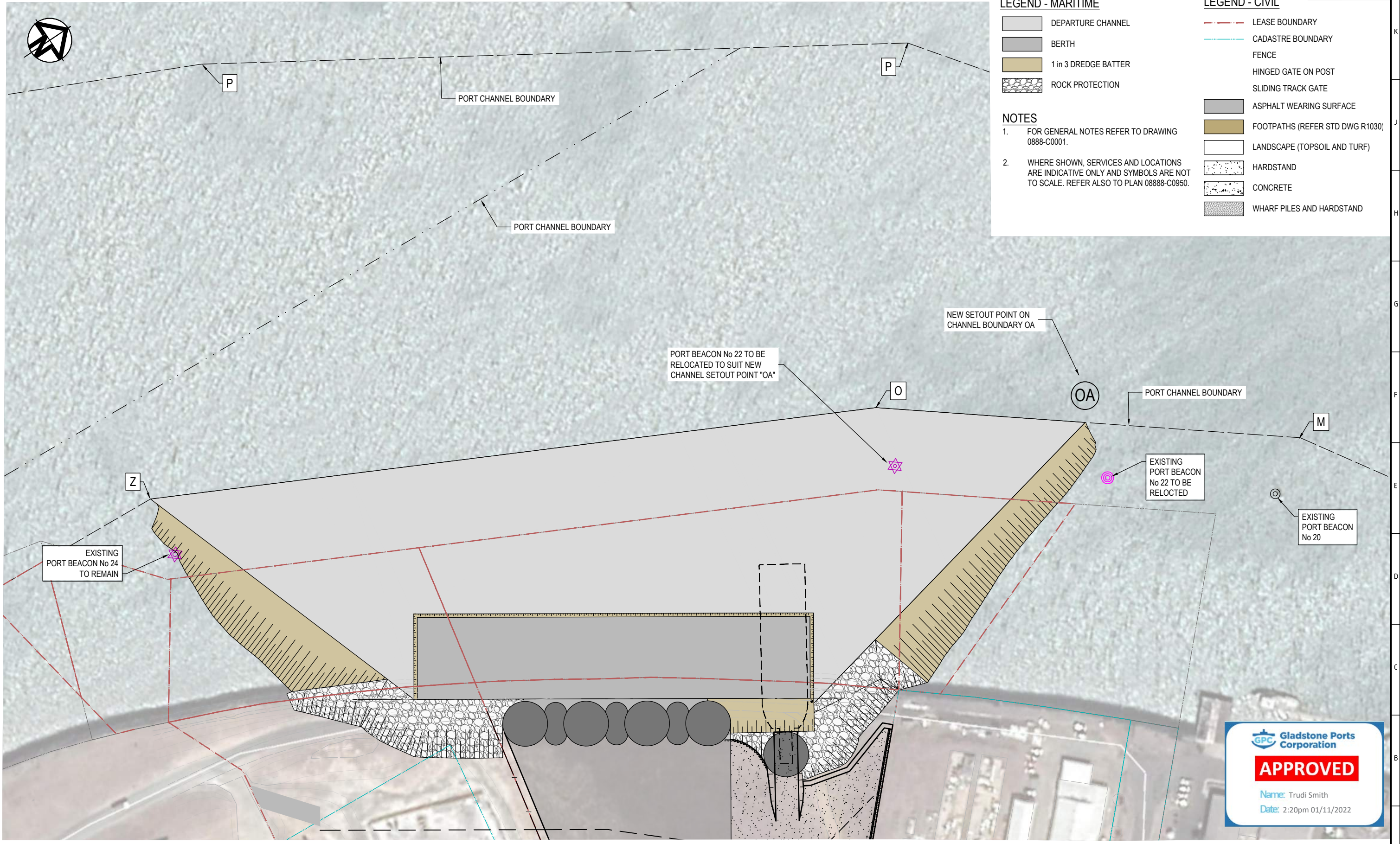
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- BERTH
- 1 in 3 DREDGE BATTER
- ROCK PROTECTION

LEGEND - CIVIL

- LEASE BOUNDARY
- CADASTRE BOUNDARY
- FENCE
- HINGED GATE ON POST
- SLIDING TRACK GATE
- ASPHALT WEARING SURFACE
- FOOTPATHS (REFER STD DWG R1030)
- LANDSCAPE (TOPSOIL AND TURF)
- HARDSTAND
- CONCRETE
- WHARF PILES AND HARDSTAND

NOTES

- FOR GENERAL NOTES REFER TO DRAWING 0888-C0001.
- WHERE SHOWN, SERVICES AND LOCATIONS ARE INDICATIVE ONLY AND SYMBOLS ARE NOT TO SCALE. REFER ALSO TO PLAN 08888-C0950.



PLAN
SCALE 1:750

Gladstone Ports Corporation

APPROVED

Name: Trudi Smith
Date: 2:20pm 01/11/2022

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 Dated - 03.08.2021
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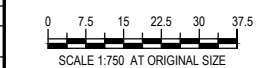
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DRAWN	M.COLLINGS	MAY 2022
DRG CHK	J.LAWLEY	JUN 2022
REGISTERED PROFESSIONAL	J.LAWLEY	
REGISTRATION	LONJAC PTY LTD	
SIGNATURE	<i>[Signature]</i>	
No.	22281	
Date	29.6.2022	



PROJECT		PACIFIC MARINE BASE BUNDABERG MARINE INDUSTRY SITE
DRAWING TITLE		STAGE 1 BEACON RELOCATION PLAN
SCALE	AS SHOWN	DRG NO. 0888 - K0710
REV	A	

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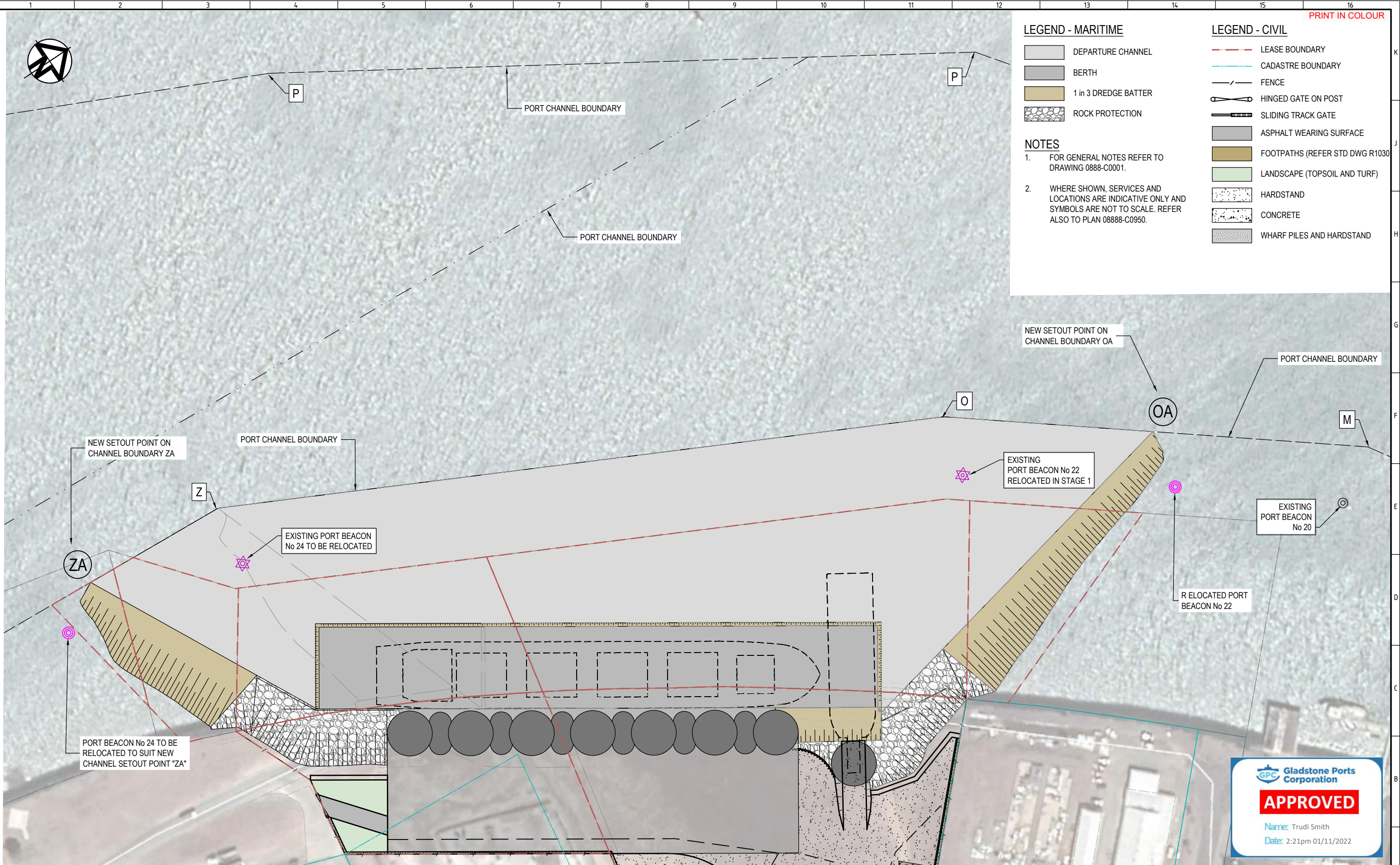
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- BERTH
- 1 in 3 DREDGE BATTER
- ROCK PROTECTION

LEGEND - CIVIL

- LEASE BOUNDARY
- CADASTRE BOUNDARY
- FENCE
- HINGED GATE ON POST
- SLIDING TRACK GATE
- ASPHALT WEARING SURFACE
- FOOTPATHS (REFER STD DWG R1030)
- LANDSCAPE (TOPSOIL AND TURF)
- HARDSTAND
- CONCRETE
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PLAN
SCALE 1:750

GPC Gladstone Ports Corporation

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Survey By - INSITE SJC
Dated - 03.08.2021
Horizontal datum - MGA 94 ZONE 56
PM 3853
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LAT (MARINE - WHERE NOTED)

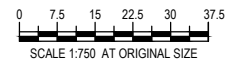
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REGISTRATION	LONJAC PTY LTD	
SIGNATURE	<i>[Signature]</i>	
No.	22281	
Date.	29.6.2022	



PROJECT

PACIFIC MARINE BASE BUNDBERG
MARINE INDUSTRY SITE

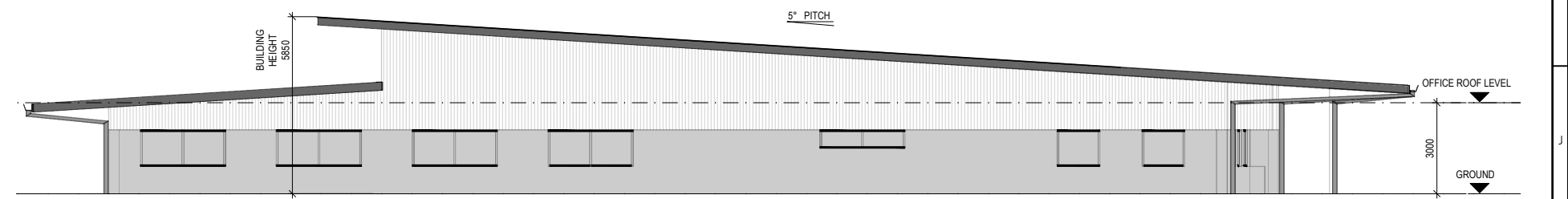
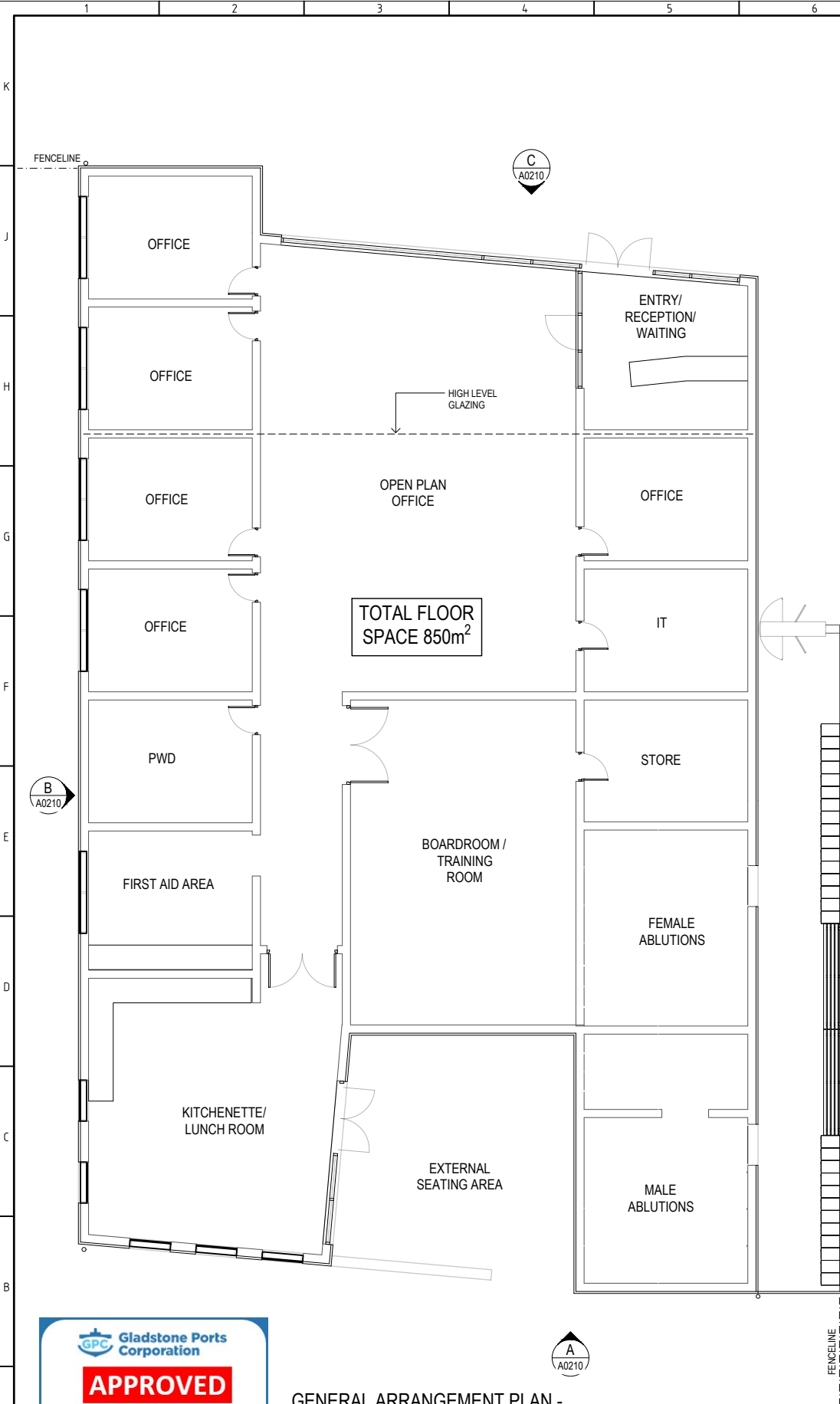
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BEACON RELOCATION PLAN

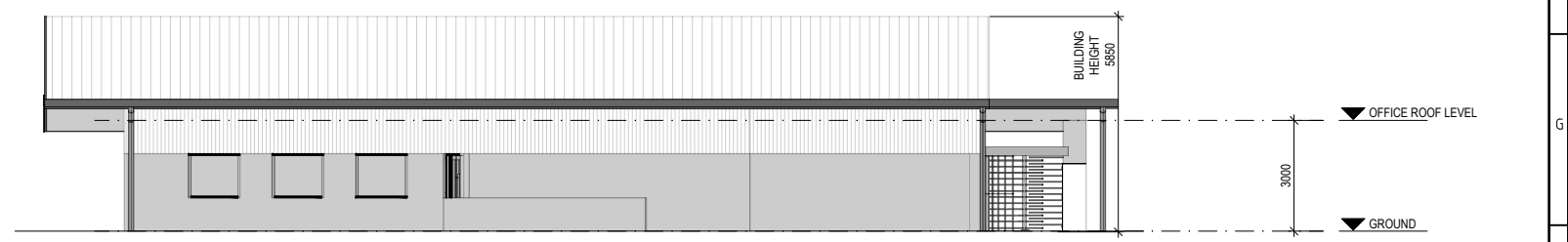
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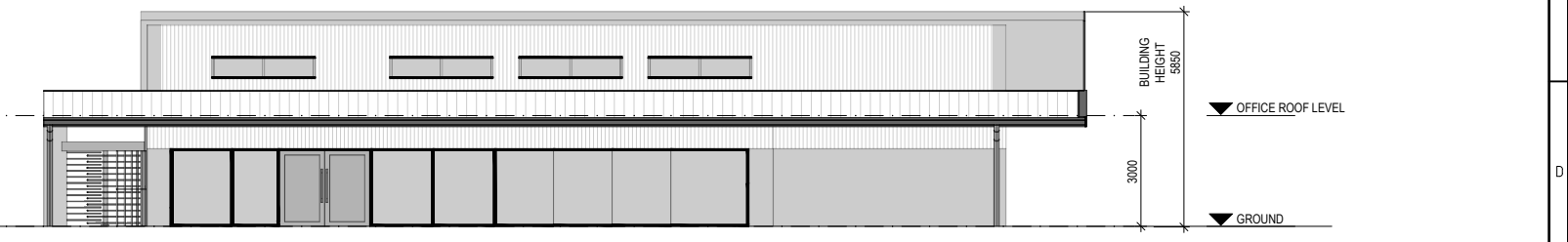
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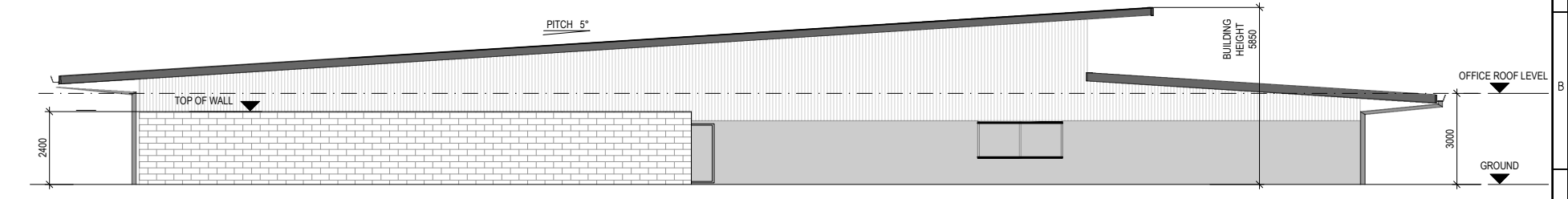
B ELEVATION
SCALE 1:100



A ELEVATION
SCALE 1:100



C ELEVATION
SCALE 1:100



D ELEVATION
SCALE 1:100



GENERAL ARRANGEMENT PLAN - SUPERINTENDENT'S OFFICE
SCALE 1:100

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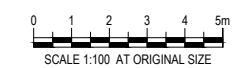
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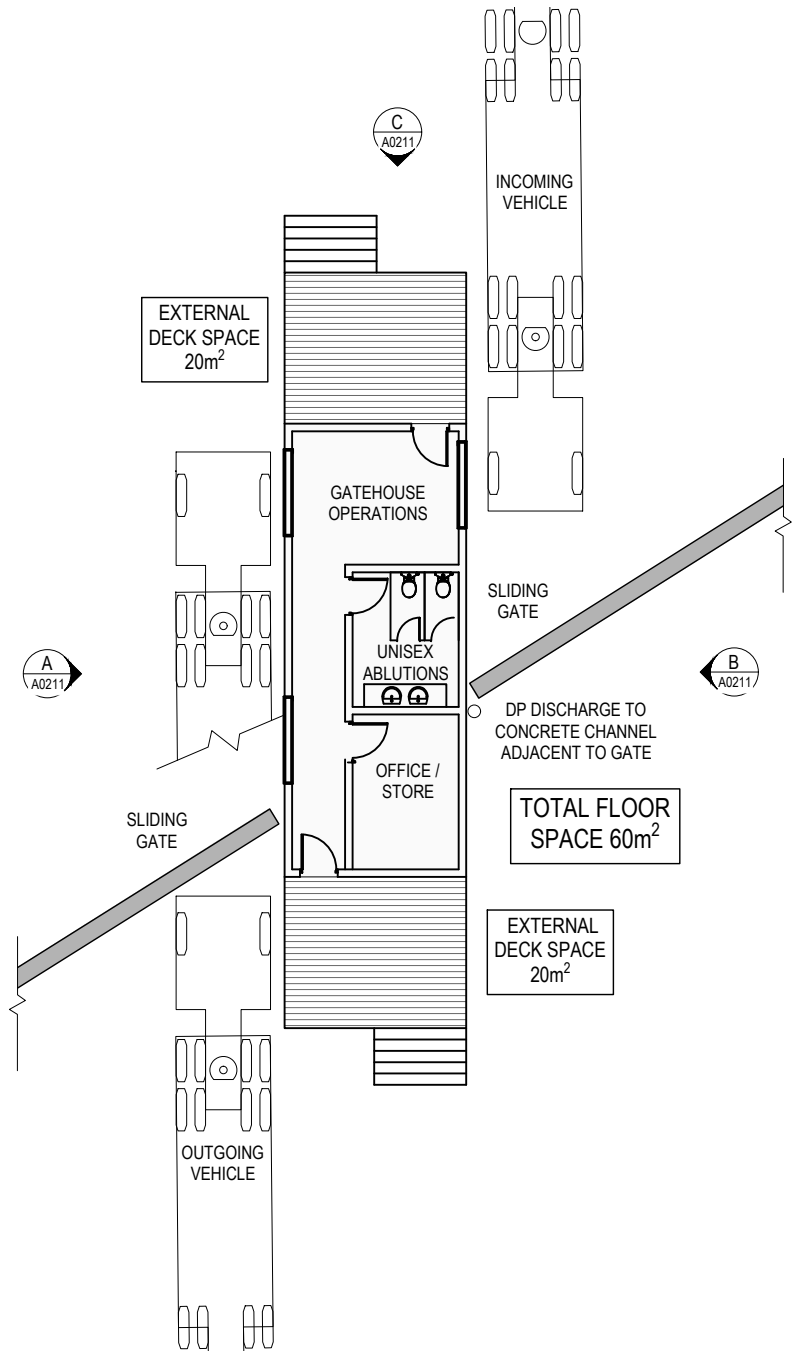
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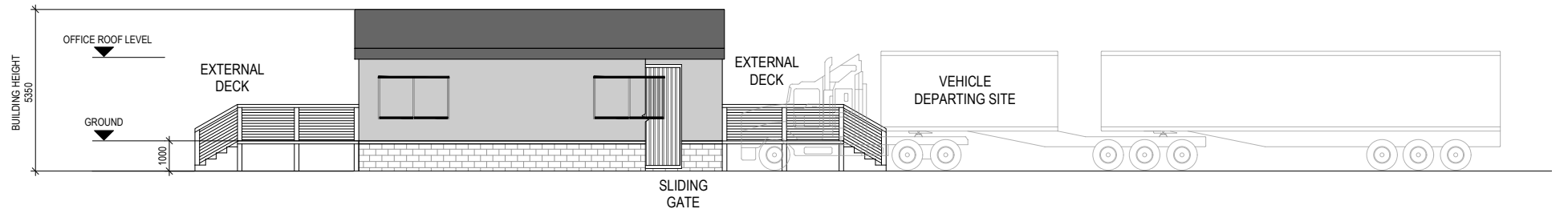
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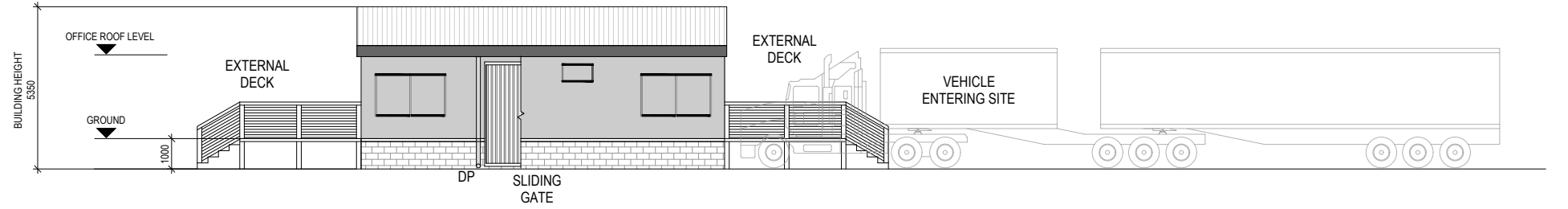
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AS SHOWN	0888 - A0210
REV	A



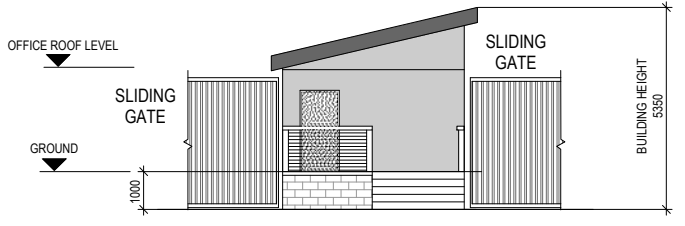
**GENERAL ARRANGEMENT PLAN -
SECURITY GATEHOUSE**
SCALE 1:100



A ELEVATION
SCALE 1:100



B ELEVATION
SCALE 1:100



C ELEVATION
SCALE 1:100



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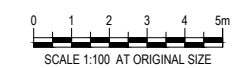
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 Survey By - INSITE SJC
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PROJECT	
PACIFIC MARINE BASE BUNDABERG MARINE INDUSTRY SITE	
DRAWING TITLE	
SECURITY / GATEHOUSE PLAN AND ELEVATIONS	
SCALE	DRG NO.
AS SHOWN	0888 - A0211
REV	A

Attachment 3 Extract of Appeal Provisions

Schedule 1 Appeals

section 229

1 Appeal rights and parties to appeals

- (1) Table 1 states the matters that may be appealed to—
 - (a) the P&E court; or
 - (b) a tribunal.
- (2) However, table 1 applies to a tribunal only if the matter involves—
 - (a) the refusal, or deemed refusal of a development application, for—
 - (i) a material change of use for a classified building; or
 - (ii) operational work associated with building work, a retaining wall, or a tennis court; or
 - (b) a provision of a development approval for—
 - (i) a material change of use for a classified building; or
 - (ii) operational work associated with building work, a retaining wall, or a tennis court; or
 - (c) if a development permit was applied for—the decision to give a preliminary approval for—
 - (i) a material change of use for a classified building; or
 - (ii) operational work associated with building work, a retaining wall, or a tennis court; or
 - (d) a development condition if—
 - (i) the development approval is only for a material change of use that involves the use of a building classified under the Building Code as a class 2 building; and

-
- (ii) the building is, or is proposed to be, not more than 3 storeys; and
 - (iii) the proposed development is for not more than 60 sole-occupancy units; or
 - (e) a decision for, or a deemed refusal of, an extension application for a development approval that is only for a material change of use of a classified building; or
 - (f) a decision for, or a deemed refusal of, a change application for a development approval that is only for a material change of use of a classified building; or
 - (g) a matter under this Act, to the extent the matter relates to the Building Act, other than a matter under that Act that may or must be decided by the Queensland Building and Construction Commission; or
 - (h) a decision to give an enforcement notice—
 - (i) in relation to a matter under paragraphs (a) to (g); or
 - (ii) under the *Plumbing and Drainage Act 2018*; or
 - (i) an infrastructure charges notice; or
 - (j) the refusal, or deemed refusal, of a conversion application; or
 - (l) a matter prescribed by regulation.
- (3) Also, table 1 does not apply to a tribunal if the matter involves—
- (a) for a matter in subsection (2)(a) to (d)—
 - (i) a development approval for which the development application required impact assessment; and
 - (ii) a development approval in relation to which the assessment manager received a properly made submission for the development application; or
 - (b) a provision of a development approval about the identification or inclusion, under a variation approval, of a matter for the development.

- (4) Table 2 states the matters that may be appealed only to the P&E Court.
- (5) Table 3 states the matters that may be appealed only to the tribunal.
- (6) In each table—
 - (a) column 1 states the appellant in the appeal; and
 - (b) column 2 states the respondent in the appeal; and
 - (c) column 3 states the co-respondent (if any) in the appeal; and
 - (d) column 4 states the co-respondents by election (if any) in the appeal.
- (7) If the chief executive receives a notice of appeal under section 230(3)(f), the chief executive may elect to be a co-respondent in the appeal.
- (8) In this section—
storey see the Building Code, part A1.1.

Table 1
Appeals to the P&E Court and, for certain matters, to a tribunal

1. Development applications

For a development application other than an excluded application, an appeal may be made against—

- (a) the refusal of all or part of the development application; or
- (b) the deemed refusal of the development application; or
- (c) a provision of the development approval; or
- (d) if a development permit was applied for—the decision to give a preliminary approval.

Table 1 Appeals to the P&E Court and, for certain matters, to a tribunal			
Column 1 Appellant	Column 2 Respondent	Column 3 Co-respondent (if any)	Column 4 Co-respondent by election (if any)
The applicant	The assessment manager	If the appeal is about a concurrence agency's referral response—the concurrence agency	<ol style="list-style-type: none"> 1 A concurrence agency that is not a co-respondent 2 If a chosen assessment manager is the respondent—the prescribed assessment manager 3 Any eligible advice agency for the application 4 Any eligible submitter for the application
<p>2. Change applications</p> <p>For a change application other than an excluded application, an appeal may be made against—</p> <p>(a) the responsible entity's decision on the change application; or</p> <p>(b) a deemed refusal of the change application.</p>			

Table 1 Appeals to the P&E Court and, for certain matters, to a tribunal			
Column 1 Appellant	Column 2 Respondent	Column 3 Co-respondent (if any)	Column 4 Co-respondent by election (if any)
<p>1 The applicant</p> <p>2 If the responsible entity is the assessment manager—an affected entity that gave a pre-request notice or response notice</p>	<p>The responsible entity</p>	<p>If an affected entity starts the appeal—the applicant</p>	<p>1 A concurrence agency for the development application</p> <p>2 If a chosen assessment manager is the respondent—the prescribed assessment manager</p> <p>3 A private certifier for the development application</p> <p>4 Any eligible advice agency for the change application</p> <p>5 Any eligible submitter for the change application</p>
<p>3. Extension applications</p> <p>For an extension application other than an extension application called in by the Minister, an appeal may be made against—</p> <p>(a) the assessment manager’s decision on the extension application; or</p> <p>(b) a deemed refusal of the extension application.</p>			

**Table 1
Appeals to the P&E Court and, for certain matters, to a tribunal**

Column 1 Appellant	Column 2 Respondent	Column 3 Co-respondent (if any)	Column 4 Co-respondent by election (if any)
1 The applicant 2 For a matter other than a deemed refusal of an extension application—a concurrence agency, other than the chief executive, for the application	The assessment manager	If a concurrence agency starts the appeal—the applicant	If a chosen assessment manager is the respondent—the prescribed assessment manager

4. Infrastructure charges notices

An appeal may be made against an infrastructure charges notice on 1 or more of the following grounds—

(a) the notice involved an error relating to—

(i) the application of the relevant adopted charge; or

Examples of errors in applying an adopted charge—

- the incorrect application of gross floor area for a non-residential development
- applying an incorrect ‘use category’, under a regulation, to the development

(ii) the working out of extra demand, for section 120; or

(iii) an offset or refund; or

(b) there was no decision about an offset or refund; or

(c) if the infrastructure charges notice states a refund will be given—the timing for giving the refund; or

(d) for an appeal to the P&E Court—the amount of the charge is so unreasonable that no reasonable relevant local government could have imposed the amount.

Table 1 Appeals to the P&E Court and, for certain matters, to a tribunal			
Column 1 Appellant	Column 2 Respondent	Column 3 Co-respondent (if any)	Column 4 Co-respondent by election (if any)
The person given the infrastructure charges notice	The local government that gave the infrastructure charges notice	—	—
<p>5. Conversion applications An appeal may be made against—</p> <p>(a) the refusal of a conversion application; or</p> <p>(b) a deemed refusal of a conversion application.</p>			
Column 1 Appellant	Column 2 Respondent	Column 3 Co-respondent (if any)	Column 4 Co-respondent by election (if any)
The applicant	The local government to which the conversion application was made	—	—
<p>6. Enforcement notices An appeal may be made against the decision to give an enforcement notice.</p>			
Column 1 Appellant	Column 2 Respondent	Column 3 Co-respondent (if any)	Column 4 Co-respondent by election (if any)
The person given the enforcement notice	The enforcement authority	—	If the enforcement authority is not the local government for the premises in relation to which the offence is alleged to have happened—the local government

Table 1			
Appeals to the P&E Court and, for certain matters, to a tribunal			
7. Enforcement notices under the <i>Plumbing and Drainage Act 2018</i>			
An appeal may be made against the decision to give an enforcement notice.			
Column 1 Appellant	Column 2 Respondent	Column 3 Co-respondent (if any)	Column 4 Co-respondent by election (if any)
The person given the enforcement notice	The local government that gave the enforcement notice	—	—

Table 2			
Appeals to the P&E Court only			
1. Appeals from tribunal			
An appeal may be made against a decision of a tribunal, other than a decision under section 252, on the ground of—			
(a) an error or mistake in law on the part of the tribunal; or			
(b) jurisdictional error.			
Column 1 Appellant	Column 2 Respondent	Column 3 Co-respondent (if any)	Column 4 Co-respondent by election (if any)
A party to the proceedings for the decision	The other party to the proceedings for the decision	—	—
2. Eligible submitter appeals			
For a development application or change application other than an excluded application, an appeal may be made against the decision to approve the application, to the extent the decision relates to—			
(a) any part of the development application or change application that required impact assessment; or			
(b) a variation request.			

Table 2 Appeals to the P&E Court only			
Column 1 Appellant	Column 2 Respondent	Column 3 Co-respondent (if any)	Column 4 Co-respondent by election (if any)
<p>1 For a development application—an eligible submitter for the development application</p> <p>2 For a change application—an eligible submitter for the change application</p>	<p>1 For a development application—the assessment manager</p> <p>2 For a change application—the responsible entity</p>	<p>1 The applicant</p> <p>2 If the appeal is about a concurrence agency’s referral response—the concurrence agency</p>	<p>Another eligible submitter for the application</p>
<p>3. Eligible submitter and eligible advice agency appeals</p> <p>For a development application or change application other than an excluded application, an appeal may be made against a provision of the development approval, or a failure to include a provision in the development approval, to the extent the matter relates to—</p> <p>(a) any part of the development application or change application that required impact assessment; or</p> <p>(b) a variation request.</p>			

Table 2 Appeals to the P&E Court only			
Column 1 Appellant	Column 2 Respondent	Column 3 Co-respondent (if any)	Column 4 Co-respondent by election (if any)
<p>1 For a development application—an eligible submitter for the development application</p> <p>2 For a change application—an eligible submitter for the change application</p> <p>3 An eligible advice agency for the development application or change application</p>	<p>1 For a development application—the assessment manager</p> <p>2 For a change application—the responsible entity</p>	<p>1 The applicant</p> <p>2 If the appeal is about a concurrence agency’s referral response—the concurrence agency</p>	<p>Another eligible submitter for the application</p>
<p>4. Compensation claims</p> <p>An appeal may be made against—</p> <p>(a) a decision under section 32 about a compensation claim; or</p> <p>(b) a decision under section 265 about a claim for compensation; or</p> <p>(c) a deemed refusal of a claim under paragraph (a) or (b).</p>			
Column 1 Appellant	Column 2 Respondent	Column 3 Co-respondent (if any)	Column 4 Co-respondent by election (if any)
A person dissatisfied with the decision	The local government to which the claim was made	—	—

Table 2 Appeals to the P&E Court only			
<p>5. Registered premises</p> <p>An appeal may be made against a decision of the Minister under chapter 7, part 4.</p>			
Column 1 Appellant	Column 2 Respondent	Column 3 Co-respondent (if any)	Column 4 Co-respondent by election (if any)
<p>1 A person given a decision notice about the decision</p> <p>2 If the decision is to register premises or renew the registration of premises—an owner or occupier of premises in the affected area for the registered premises who is dissatisfied with the decision</p>	<p>The Minister</p>	<p>—</p>	<p>If an owner or occupier starts the appeal—the owner of the registered premises</p>
<p>6. Local laws</p> <p>An appeal may be made against a decision of a local government, or conditions applied, under a local law about—</p> <p>(a) the use of premises, other than a use that is the natural and ordinary consequence of prohibited development; or</p> <p>(b) the erection of a building or other structure.</p>			

Table 2 Appeals to the P&E Court only			
Column 1 Appellant	Column 2 Respondent	Column 3 Co-respondent (if any)	Column 4 Co-respondent by election (if any)
A person who— (a) applied for the decision; and (b) is dissatisfied with the decision or conditions.	The local government	—	—

Table 3 Appeals to a tribunal only			
1. Building advisory agency appeals			
An appeal may be made against giving a development approval for building work to the extent the building work required code assessment against the building assessment provisions.			
Column 1 Appellant	Column 2 Respondent	Column 3 Co-respondent (if any)	Column 4 Co-respondent by election (if any)
A building advisory agency for the development application related to the approval	The assessment manager	The applicant	1 A concurrence agency for the development application related to the approval 2 A private certifier for the development application related to the approval

Table 3 Appeals to a tribunal only			
<p>2. Inspection of building work</p> <p>An appeal may be made against a decision of a building certifier or referral agency about the inspection of building work that is the subject of a building development approval under the Building Act.</p>			
Column 1 Appellant	Column 2 Respondent	Column 3 Co-respondent (if any)	Column 4 Co-respondent by election (if any)
The applicant for the development approval	The person who made the decision	—	—
<p>3. Certain decisions under the Building Act and the <i>Plumbing and Drainage Act 2018</i></p> <p>An appeal may be made against—</p> <p>(a) a decision under the Building Act, other than a decision made by the Queensland Building and Construction Commission, if an information notice about the decision was given or required to be given under that Act; or</p> <p>(b) a decision under the <i>Plumbing and Drainage Act 2018</i>, other than a decision made by the Queensland Building and Construction Commission, if an information notice about the decision was given or required to be given under that Act.</p>			
Column 1 Appellant	Column 2 Respondent	Column 3 Co-respondent (if any)	Column 4 Co-respondent by election (if any)
A person who received, or was entitled to receive, an information notice about the decision	The entity that made the decision	—	—
<p>4. Failure to decide an application or other matter under the Building Act</p> <p>An appeal may be made against a failure to make a decision under the Building Act within the period required under that Act, other than a failure by the Queensland Building and Construction Commission to make a decision, if an information notice about the decision was required to be given under that Act.</p>			

Table 3 Appeals to a tribunal only			
Column 1 Appellant	Column 2 Respondent	Column 3 Co-respondent (if any)	Column 4 Co-respondent by election (if any)
A person who was entitled to receive notice of the decision	The entity that failed to make the decision	—	—
<p>5. Failure to decide an application or other matter under the <i>Plumbing and Drainage Act 2018</i></p> <p>An appeal may be made against a failure to make a decision under the <i>Plumbing and Drainage Act 2018</i> within the period required under that Act, other than a failure by the Queensland Building and Construction Commission to make a decision, if an information notice about the decision was required to be given under that Act.</p>			
Column 1 Appellant	Column 2 Respondent	Column 3 Co-respondent (if any)	Column 4 Co-respondent by election (if any)
A person who was entitled to receive an information notice about the decision	The entity that failed to make the decision	—	—