

WET BERTHED VESSEL

MAXIMUM VESSEL LENGTH - 12.5m
MAXIMUM VESSEL BEAM - 4.5m
MAXIMUM VESSEL MASS - 14000 Kg

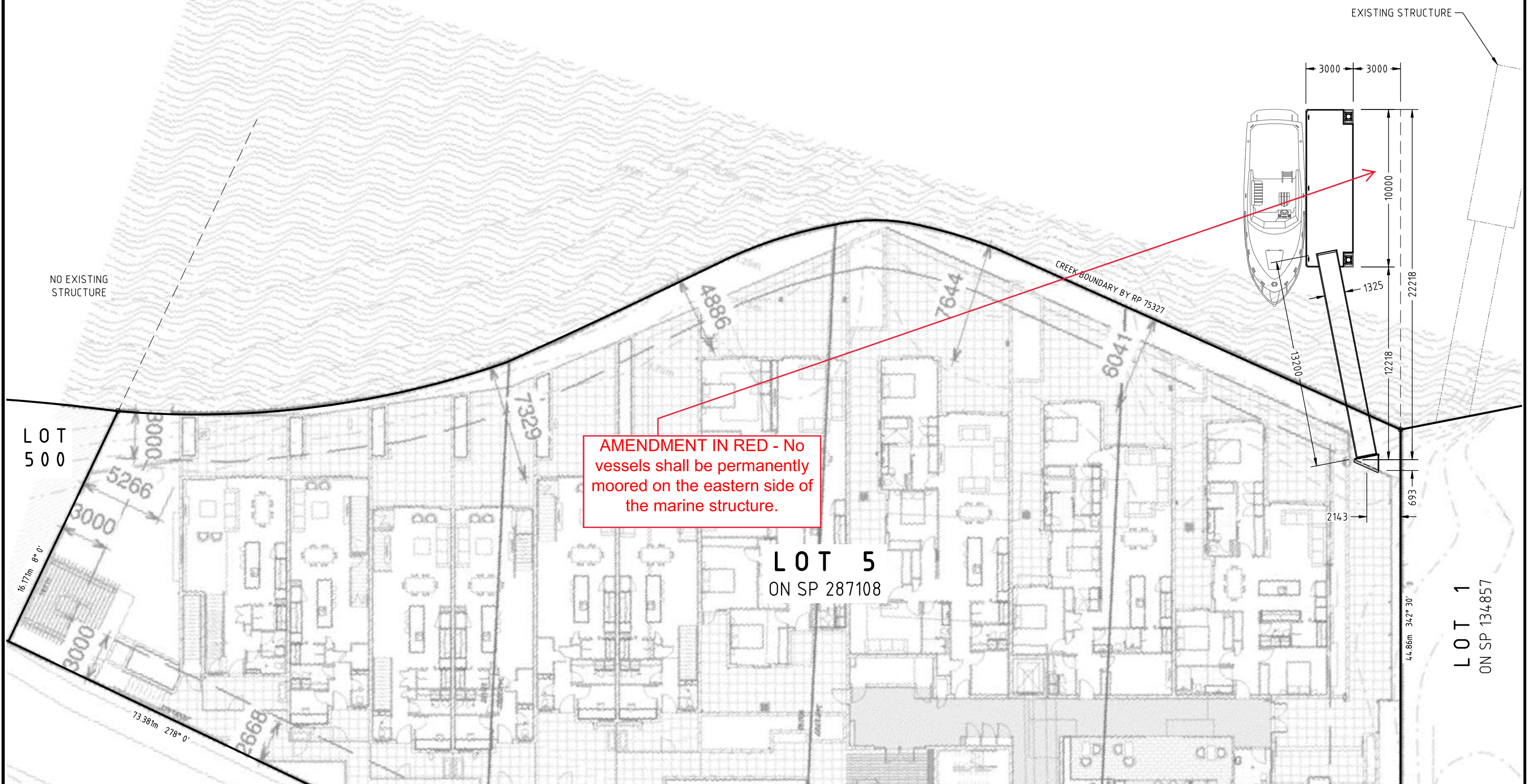
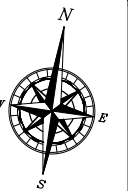
AMENDED IN RED

By: Kari Stephens
Date: 28 January 2022



PLANS AND DOCUMENTS
referred to in the PDA
DEVELOPMENT APPROVAL

Approval no: DEV2021/1198
Date: 2 February 2022



PLAN SCALE 1:250

No:	DATE	REVISION	DRAWN BY

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DATE
12/03/21

DRAWING NO:
17749-D01

REVISION NO:

PROJECT
PROPOSED PONTOON AND GANGWAY
SITE PLAN
CLIENT
CONTRAST CONSTRUCTIONS PTY LTD
ADDRESS
10-16 AUSTER STREET
REDLAND BAY

DRAWN BY R.R.M.	DESIGNED	CHECKED BY M.W.	PAPER SIZE A3	SCALE
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CERTIFIED
MARK WICHLINSKI
CONSULTING ENGINEERS PTY LTD

NPER No 832296
RPEQ: 1643, RPB: EC36234

1.0. GENERAL NOTES

- 1.1. The works that are the subject of these plans are structurally adequate for anticipated usage as detailed and certified on these plans.
- 1.2. All structures depicted have been designed to comply with relevant regulations as set by statutory authorities and The Prescribed Tidal Works Code (Schedule 3 of the Coastal Protection & Management Regulation 2017)
- 1.3. All structures depicted herein have been designed in accordance with Australian Standards AS1170.0; AS1170.1; AS1170.2; AS1170.4; AS4997; AS1720.1; AS2159; AS3600; AS3962; Relevant local covenants, where applicable, have been considered in the design.
- 1.4. Anchorage piles where applicable have been designed assuming independence from any adjacent revetment structures.
- 1.5. Where applicable, the existing revetment wall appears (to the best extent that could be reasonably determined via non-destructive inspection) to be adequate for typical service loads (such as live, dead and impact) that may be imposed by the proposed gangway/abutment connection.
- 1.6. The following design parameters form the basis for the design of the structure/s depicted herein -
- 1.6a Gangways - Restricted Access - Design Structural Live Load - 3.0 kPa
- 1.6b Gangways - Unrestricted Access - Design Structural Live Load - 4.0 kPa
- 1.6c Pontoon - Design Structural Live Load - 3.0 kPa - Concentrated load of 4.5kN
- 1.6d Pontoon - Design Flotation Loads - Restricted Access 2.0 kPa - Unrestricted Access 3.0 kPa
- 1.6e Pontoon - Design Stability Loads - Restricted Access 1.5 kPa - Unrestricted Access 2.0 kPa
- 1.6f (Deck or Jetty) Restricted Access - Design Structural Live Load - 3.0 kPa - Concentrated load of 4.5kN
- 1.6g (Deck or Jetty) Unrestricted Access - Design Structural Live Load - 5.0 kPa - Concentrated load of 4.5kN
- 1.6h Design Wave height - 0.4 m
- 1.6i Design ultimate wind velocity - 34 m/s - Nil mooring where Ws exceeds 215 m/s.
- 1.6j Max stream velocity (2% exceedance probability) <0.5m/s maximum
- 1.6k Anchorage, Mooring, Boardwalk or Jetty (where applicable) to be installed in accordance with AS2159 to ensure the following minimum (working) design loads are achieved (Unless Noted Otherwise) :
Bearing Capacity - 5.0 tonnes.
Lateral Capacity - 5.0 tonnes.

2.0. STEEL

- 2.1. All steelwork to comply with AS4100. All welds to be 6mm continuous fillet welds U.N.O.
- 2.2. All steel exposed to be hot dipped galvanized with coating mass not less than 600g/sq.m.
- 2.3. Stainless steel restraint cables to be min 8mm diam, Grade 316 and in accordance with AS 2837 where applicable.

3.0. CONCRETE

- 3.1. All concrete work to comply with AS3600.
- 3.2. Pontoon concrete strength to be S50MPa marine grade. U.N.O.
- 3.3. Insitu pile concrete 32 MPa & Abutment Block concrete S50MPa marine grade. U.N.O.
- 3.4. Minimum cover to the reinforcement - 50mm U.N.O.

4.0. ALUMINIUM

- 4.4. All aluminium to comply with AS1664 and to be (minimum) Grade 6063 T5 U.N.O.
- 4.5. Butt welds, where specified, to have full penetration.
- 4.6. Surfaces between aluminium pontoon waler and concrete to be separated by bituminous membrane.

5.0. FLOTATION

- 5.1. Design stability load applied across half the width of the floating pontoon and on the entire gangway will produce a maximum tilt not exceeding 15 degrees and will not cause any corner to emerge from the water. The minimum freeboard under such loading will not be less than 75mm at any point on the pontoon.
- 5.2. (CAPRI SERIES) flotation modules are manufactured using rotationally molded medium density polyethylene, and form a complete seal impervious to marine organisms known to attach to such structures under typical conditions.

6.0. TIMBER

- 6.1. All timber work to comply with AS 1720.1 to be minimum F17 hardwood. Durability Class 1.
- 6.2. All bolted timber connections, where specified, to be galvanized (or stainless steel equivalent).

7.0. FIXINGS & FINISHINGS

- 7.1. All fixings to be 316 Grade Stainless Steel U.N.O.

IT IS THE OWNERS RESPONSIBILITY TO ENSURE THAT ANY VESSEL BERTHED DOES NOT EXCEED THESE MAXIMUMS

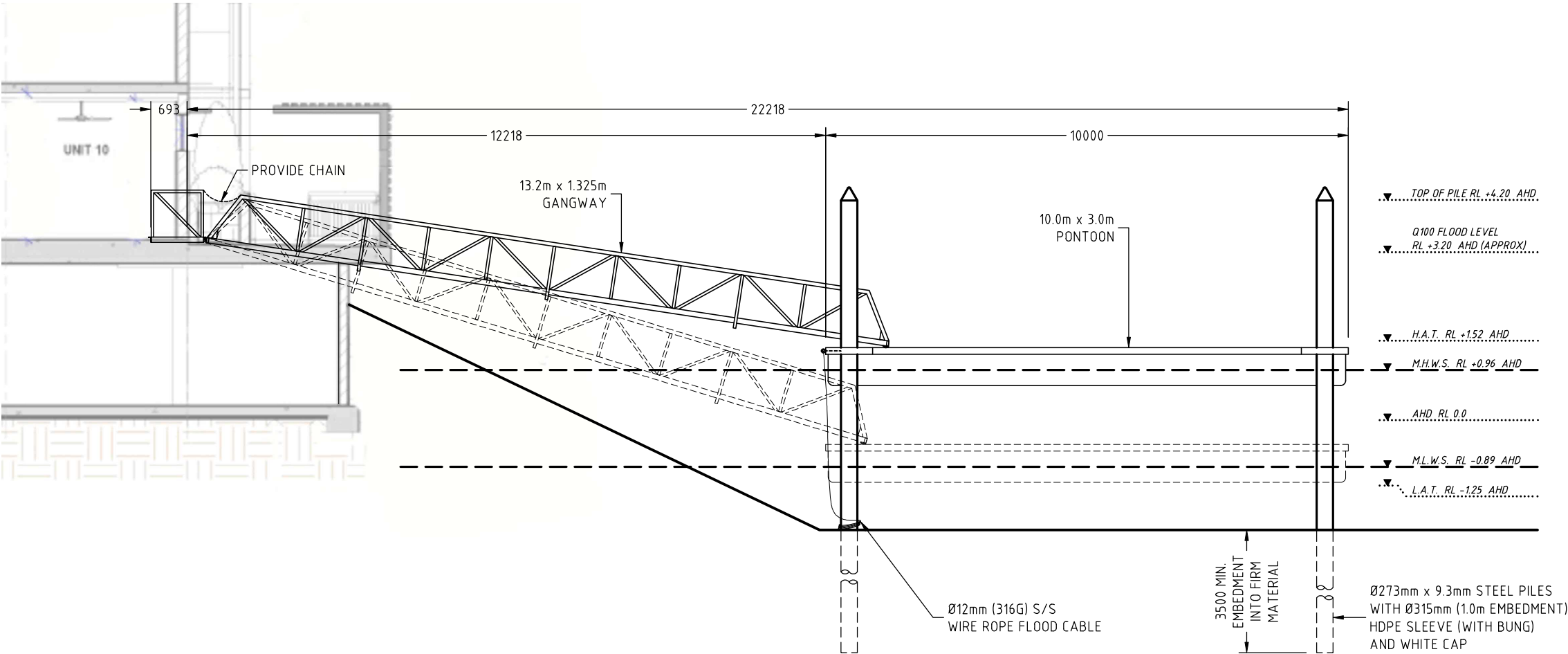
DO NOT SCALE DRAWINGS.

THE WORKS THAT ARE THE SUBJECT OF THESE PLANS ARE STRUCTURALLY ADEQUATE FOR ANTICIPATED USAGE AS DETAILED AND CERTIFIED ON THESE PLANS.

PLANS AND DOCUMENTS referred to in the PDA DEVELOPMENT APPROVAL

Approval no: DEV2021/1198

Date: 2 February 2022



ELEVATION SCALE 1:100

No:	DATE	REVISION	DRAWN BY
A	27/09/21	ADDED FLOOD CABLE & UPDATED PILE HEIGHTS	RM

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DATE
12/03/21

DRAWING NO:
17749-D02

REVISION NO:
A

PROJECT
PROPOSED PONTOON AND GANGWAY
ELEVATION AND GENERAL NOTES

CLIENT
CONTRAST CONSTRUCTIONS PTY LTD
ADDRESS
10-16 AUSTER STREET
REDLAND BAY

DRAWN BY
R.R.M.

DESIGNED

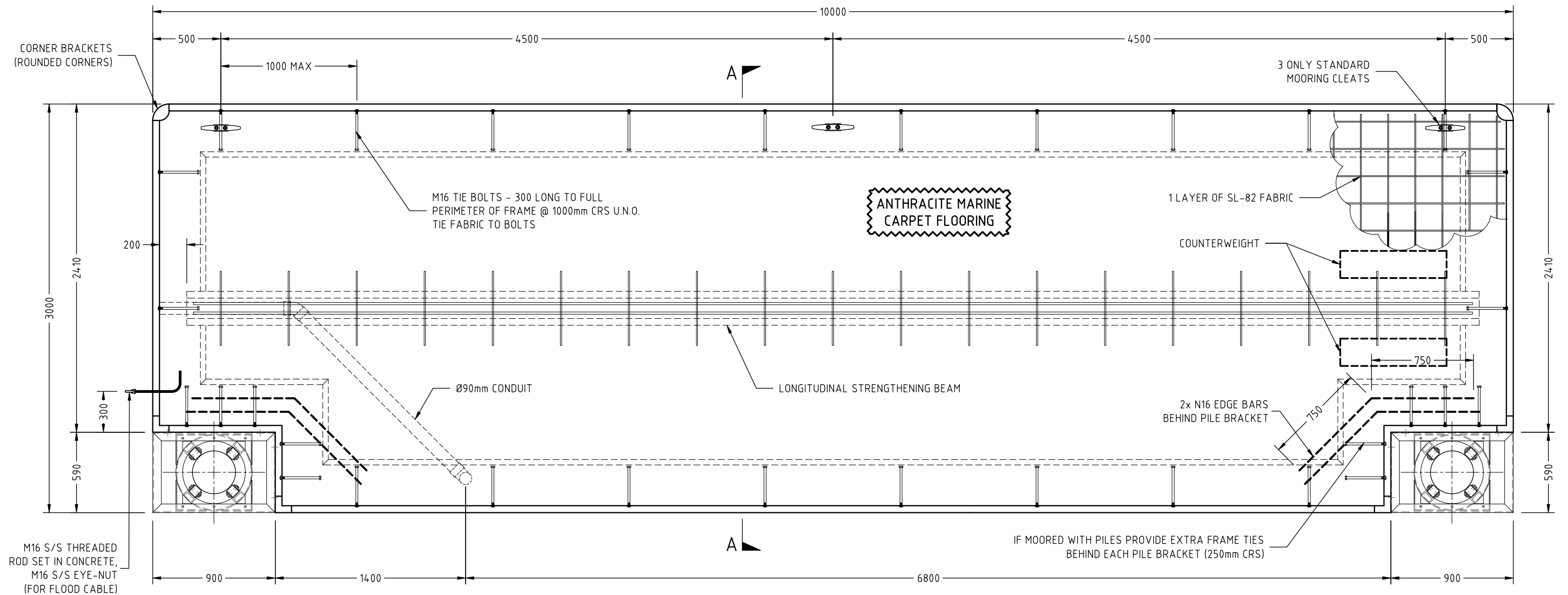
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PAPER SIZE
A3

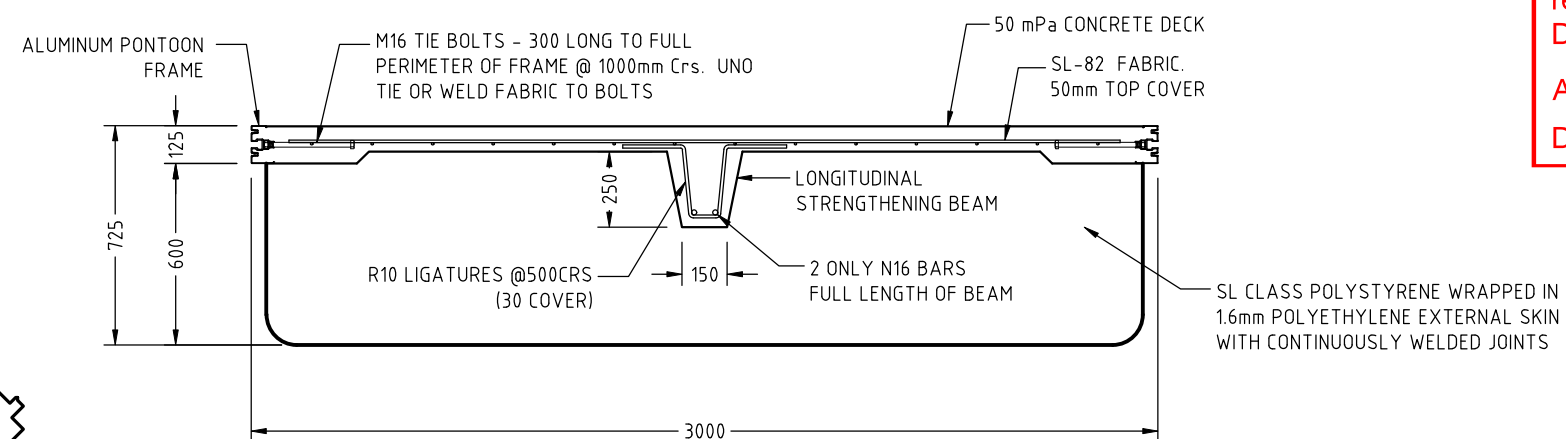
SCALE

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RPEQ: 1643, RPB: EC36234



PONTON PLAN SCALE 1:30



SECTION A-A SCALE 1:25

NOTE: HOLD PONTON CONSTRUCTION UNTIL AS-BUILT PILE LOCATION IS GIVEN.

PLANS AND DOCUMENTS
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DEVELOPMENT APPROVAL

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No:	DATE	REVISION	DRAWN BY
A	27/09/21	ADDED EYE NUT FOR FLOOD CABLE	RM

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DATE
12/03/21

DRAWING NO:
17749-D03

REVISION NO:
A

PROJECT
DRG. TITLE
**PROPOSED PONTON AND GANGWAY
PONTON CONSTRUCTION DETAILS**

CLIENT
ADDRESS
**CONTRAST CONSTRUCTIONS PTY LTD
10-16 AUSTER STREET
REDLAND BAY**

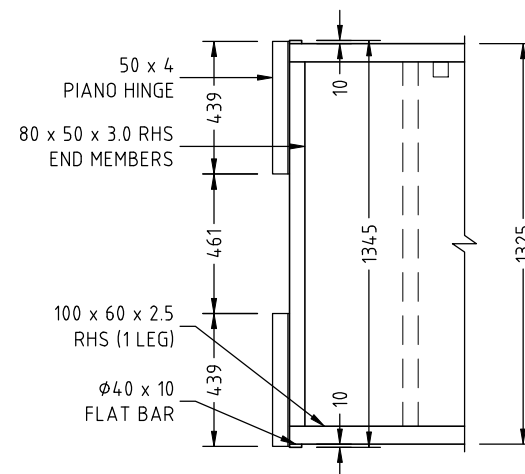
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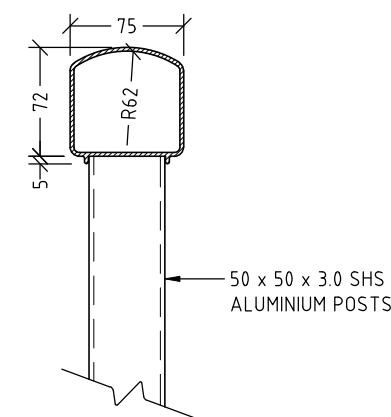
Mark Wichlinski

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RPEQ: 1643, RPB: EC36234

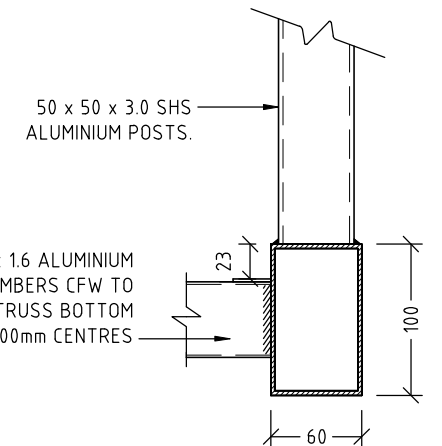
GANGWAY LENGTH	NUMBER OF BAYS	HANDRAIL SUPPORTS 100x50x3.0 RHS	CAP STIFFENER 50x50x3.0 SHS	BOTTOM CHORD THICKENER 50x6 FLAT BAR	PRE-CAMBER
UP TO 10.0m	AS DIRECTED				
10.0m	8	1 ONLY			
11.0m	8	1 ONLY			
12.0m	10	2 ONLY			
13.0m	10	3 ONLY			
14.0m	12	3 ONLY			
15.0m	12	3 ONLY			
16.0m	14	3 ONLY	YES		
17.0m	16	4 ONLY	YES	YES	YES 30mm
18.0m	16	5 ONLY	YES	YES	YES 40mm
19.0m	18	5 ONLY	YES	YES	YES 50mm
20.0m	18	5 ONLY	YES	YES	YES 60mm



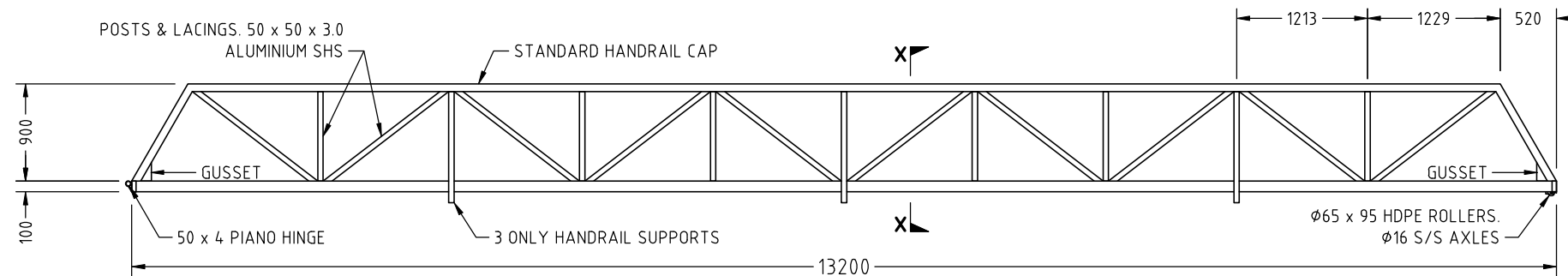
HINGE DETAIL SCALE 1:25



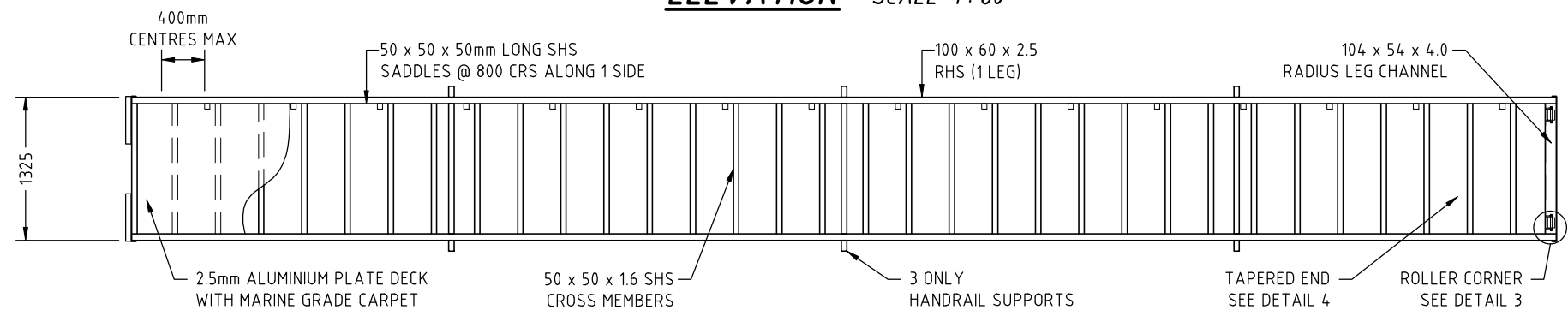
DETAIL 1 SCALE 1:5



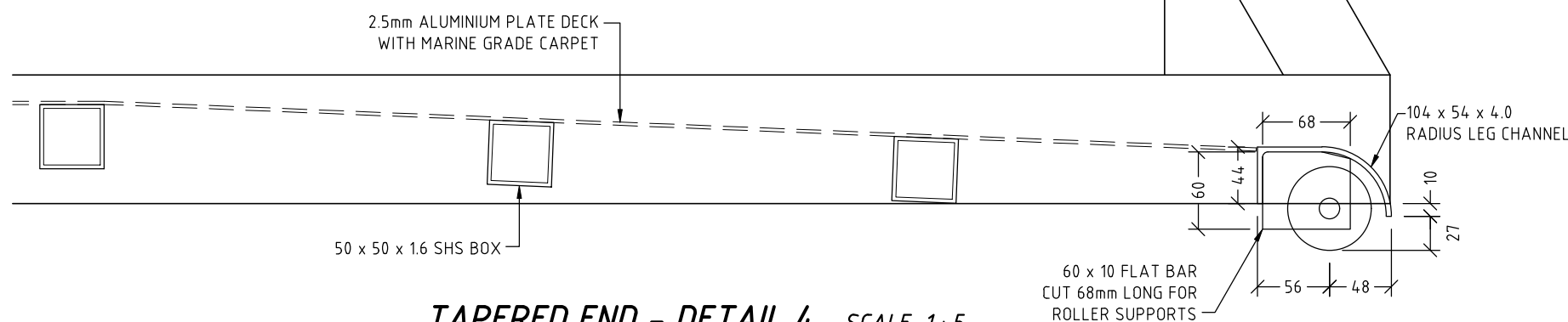
DETAIL 2 SCALE 1:5



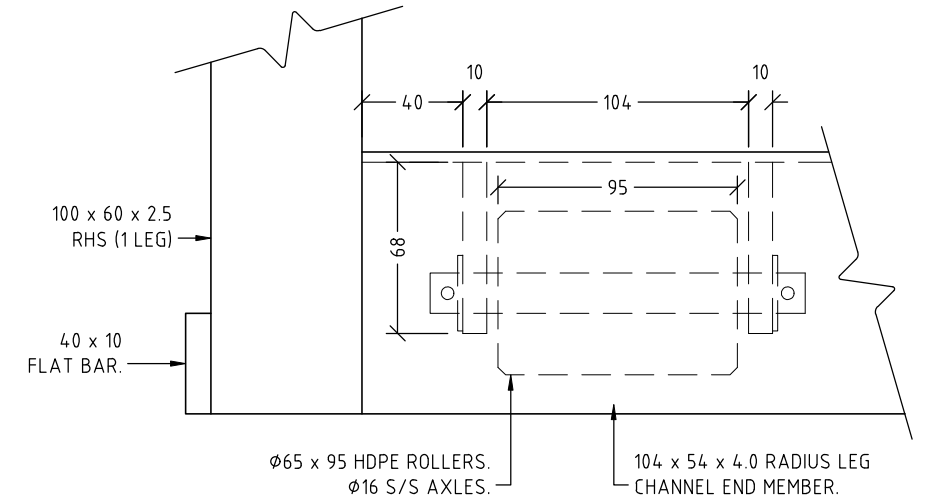
ELEVATION SCALE 1:60



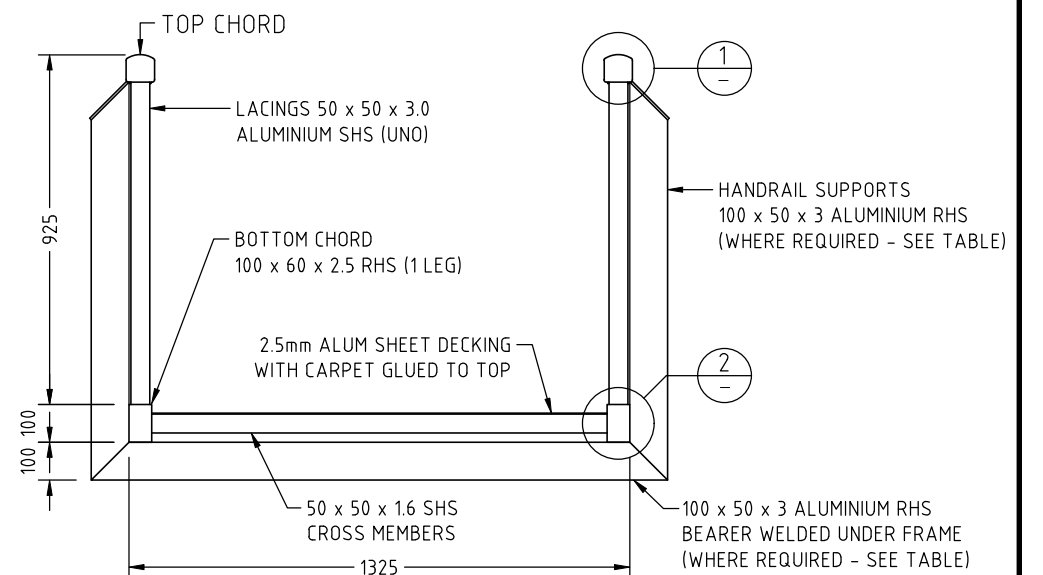
PLAN SCALE 1:60



TAPERED END - DETAIL 4 SCALE 1:5



DETAIL 3 SCALE 1:3



SECTION X-X SCALE 1:20

No. 101/10

PLANS AND DOCUMENTS
referred to in the PDA
DEVELOPMENT APPROVAL

Approval no: DEV2021/1198

Date: 2 February 2022

Queensland Government

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17749-D04

REVISION NO:

PROJECT
**PROPOSED PONTOON AND GANGWAY
GANGWAY CONSTRUCTION DETAILS**

DRG. TITLE

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REDLAND BAY**

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R.R.M.

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CHECKED BY
M.W.

PAPER SIZE
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SCALE

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RPEQ: 1643, RPB: EC36234

