

# Peter J Boyce & Associates

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Your ref N0134/11/S96/1

22 April 2013

The General Manager  
Pittwater Council  
PO Box 882  
Mona Vale NSW 1660

Dear Sir/Madam

Re: Partial Construction Certificate - 4 Kalinya Street, Newport

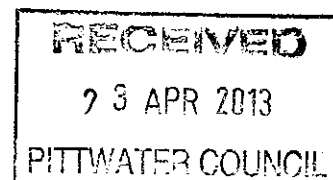
Plans forwarded previously were incorrect and did not include full extent of pontoon which was covered by Partial Construction Certificate.

Enclosed plans forwarded for Council's records.

Yours faithfully



Peter Boyce





**GENERAL**

1. These drawings shall be read in conjunction with design brief for the Heron Cove Marina Pontoon, other consultants drawings, specifications instructions as may be issued during the course of the contract. Any discrepancy shall be referred to the Engineer before proceeding with the job.
2. All materials and workmanship shall be in accordance with the relevant and current S.A.A. codes and with the By-Laws and ordinances of the relevant building authorities except where overridden by the project specifications
3. All dimensions shown shall be verified by the Contractor. Engineers drawings shall not be scaled for dimensions
4. During construction the structure shall be maintained in a good condition and no part shall be overstressed. Temporary bracing shall be provided by the Contractor to keep the works and pontoons stable at all times.
5. Unless noted otherwise, all levels are in metres and all dimensions are in millimetres
6. The design and details shown on these drawings are applicable to the project only and may not be reproduced in whole or in part or be used for any other project or purpose without the written permission of Ardill Payne & Partners with whom the copyright resides
7. The structural components detailed on these drawings have been designed in accordance with the relevant S.A.A. codes for the following loads.

**LIVE LOADS**

Description	Live Load
Marina Flotation Check	2.0 kPa
Marina Strength Check	3.0 kPa
Pontoon Design Vessel	15 tonnes
Pontoon Marina Berthing Vel.	0.30 m/s

**WIND LOADS AND WAVE HEIGHTS**

DESIGN WAVE HEIGHTS	
Wave Load on pontoons	2.0 kN/m
WIND SPEEDS AND DRAG	
30 Second Gust Velocity	36 m/s
Boat Drag Coefficients	1.3 - 1.5

**CONCRETE NOTES**

1. All workmanship and materials shall be in accordance with AS 3600 Concrete Structures Code.
2. Concrete Quality.  
The Characteristic compression strength and slump of the concrete must not be less than the values noted below:

Element	f <sub>ck</sub> MPa (28 Days)	Slump (mm)	Aggregate Size (mm)
Pontoons	S4.0	80	10

Project control testing shall be carried out in accordance with AS 3600.

3. Class S concrete shall consist of fibre reinforced concrete with Superplasticiser at 2.0 litres / cu m. Fibre reinforcement to consist of Masterbuilders MBT polypropylene fibres.
4. All reinforcement shall be hot dip galvanised to AS 1657 and shall be fully supported from the Polystyrene fillers and supported on plastic chairs or concrete chairs at no greater than 600mm centres both ways. Reinforcing to be generally placed centrally to all sections.
5. Concrete sizes shown do not include thickness of applied finishes
6. No holes, joints or embedment of pipes other than those shown on the structural drawings shall be made in concrete members without the prior written approval of the Engineer.
7. No other admixtures shall be used in concrete unless approved in writing.
8. The finished concrete shall be a dense homogeneous mass completely filling the formwork thoroughly embedding the reinforcement and free of all air pockets. All concrete shall be compacted with mechanical vibrators.
9. Curing of all concrete is to be achieved by keeping structures continuously wet for a period of three days, and prevention of loss of moisture for a total of seven days followed by a gradual drying cure. Approved sprayed-on curing compounds or polythene sheeting may be used. The Engineer shall be given 24 hours notice for reinforcement inspection if required and concrete shall not be delivered until final approval is obtained. Conduits, pipes etc. shall only be located in the middle one third of slab depth and spaced at not less than 3 diameters.

**REINFORCEMENT SYMBOLS:**

10. Reinforcement Symbols:  
N Denotes Grade 500 normal ductility bar.  
R Denotes Grade 250 R Hot Rolled Plain Bar.  
SL Denotes Grade 500 Low Ductility Wire Ribbed Fabric.  
F Denotes Hard Drawn Wire Reinforcing Fabric.  
W Denotes Hard Drawn Plain Wire.  
The number immediately following these symbols is the number of millimetres in bar diameter.  
Reinforcement shall comply with AS 4671.
11. Reinforcement is represented diagrammatically and not necessarily in true projection.
12. Welding or bending of reinforcement shall not be permitted unless shown on the structural drawings or approved by the Engineer.
13. The lap length of bar splices shall not be less than 500mm or 25 bar diameters.
14. Clear concrete cover to reinforcement for durability shall be as shown on the drawings.

**PILES AND FOUNDATIONS**

1. All pile fabrication, installation and materials shall be in accordance with AS 2159, The Piling Code.
2. Piles are to be driven or drilled at least three metres into medium dense Sand. To be confirmed on site.
3. Piles P1 to P11 to be steel piles sleeved with a high density polyethylene (HDPE) sheath (6mm thick), embedded 500mm into the seabed and the annulus grouted with an approved cementitious grout. Piles P12 to P16 are re-used timber marine piles CCA/PEC treated.

**TIMBER NOTES**

1. All timber design, construction and material to be in accordance with AS 1720.1 and AS 1720.2 UNO Hardwood to be minimum grade F22.
2. External timber to be either hardwood durability class I or class II as per AS 1720.2.
3. All bolts in timber construction to be minimum M16 UNO. Bolt holes to be drilled exact size. Washers under heads and nuts to be at least 2.5 times bolt diameter.
4. Timber dimensions on the finished width and thickness to be:  
Seasoned Hardwood +2, -0mm  
Unseasoned Hardwood +3, -3mm (See also clause 1.6.2 in AS 2082)
5. All timber joints and notches are to be 100mm minimum away from loose knots, severe sloping grain, gum veins or other minor defects.

**STRUCTURAL STEEL NOTES**

1. All workmanship and materials shall be in accordance with AS 4100 and AS 1554 except where varied by contract documents.
2. Unless noted otherwise, all steel shall be in accordance with AS 3679 Grade 300.
3. Bolt Designation:  
4.6/S  
Commercial bolts of grade 4.6 to AS 1111 snug tightened
- 8.8/S  
High strength structural bolts of grade 8.8 to AS 1252 snug tightened
- 8.8/TB  
High strength structural bolts of grade 8.8 to AS 1252 fully tensioned to AS 1511 as a bearing joint.
- 8.8/TF  
High strength structural bolts of grade 8.8 to AS 1252 fully tensioned to AS 1511 as a friction joint with facing surfaces left uncoated.
4. Unless noted otherwise, all bolts shall be Grade 8.8/S except through bolts which may be grade 4.6/S.
5. No connection shall have less than 2 M15 bolts.
6. All bolts, nuts and washers to be hot dipped galvanised or grade 316 stainless steel as noted.
7. Unless noted, all welds shall be 6mm continuous fillet welds class SP using E41XX electrodes. Butt welds shall be complete penetration butt welds to AS 1554.
8. Unless noted, all cleat plates to be 10mm.
9. Provide end plates to all hollow sections, with drain holes in members to be hot dipped galvanised.
10. All steelwork to be secured with temporary braces as necessary to stabilise the structure during erection.
11. The builder shall provide all cleats, fixings and welding necessary for fixing steel to steel and timber to steel if not detailed on the drawings.
12. Structural steelwork shall have the following surface treatment unless otherwise specified.

Element	Surface Cleaning	Treatment
ALL	ABRASIVE BLAST CLEAN to class 2.5 surface (AS 1627.4)	Hot Dip Galvanised HD6900 (AS/NZS 2312)

THIS PLAN IS A DEVELOPMENT OF FORMER PROJECT 6636 APPROVED BY THE NSW GOVERNMENT UNDER THE CONSTRUCTION CERTAINING ACT 1973 AND ALL WORK MUST BE CONDUCTED IN ACCORDANCE WITH THE BUILDING REGULATIONS AUSTRALIA 2007

**BR230X**

Authorised Signatory

**CONFIDENTIAL**  
FOR BELL ROCK CONSTRUCTIONS ONLY

Issue	Date	By	App'd
1	21-01-12	ISSUED FOR CONSTRUCTION	Ardill Payne & Partners

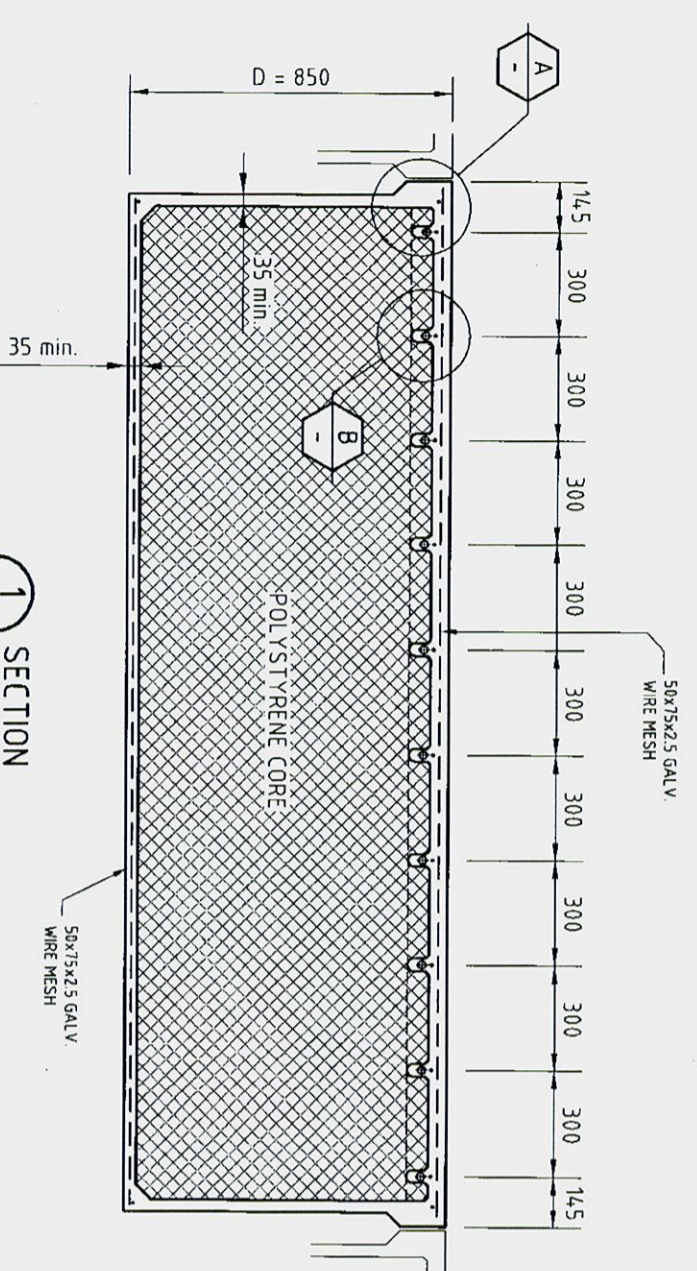
**Client:**  
BELL ROCK CONSTRUCTIONS  
MOBILE 0414 6971 166

**Project:**  
PROPOSED MARINA EXTENSION  
AT: HERON COVE MARINA,  
QUEENS PARADE (WEST) NEWPORT, PITTSWATER.

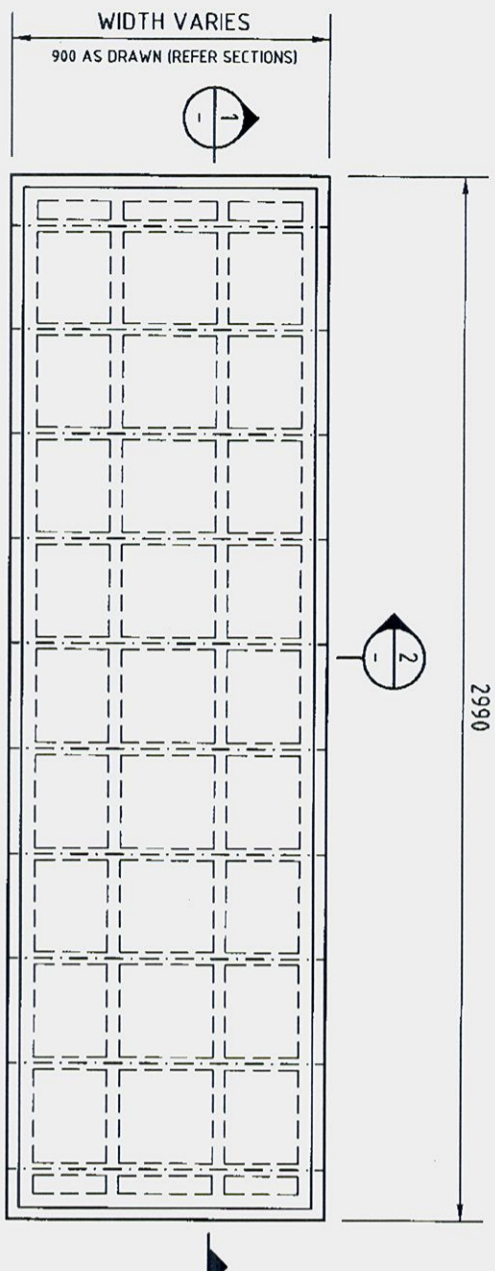
**Title:**  
GENERAL NOTES

**ARDILL PAYNE & PARTNERS**  
CONSULTING CIVIL AND STRUCTURAL ENGINEERS  
PROJECT MANAGERS TOWN PLANNERS AND SURVEYORS  
70 Temara Street  
P.O. Box 20  
BALLINA NSW 2478  
BALLINA NSW 2478  
A.S.N. 61 688 688 977

Drawn By	Checked By	App'd By	Scale
JHZ	APZ	APZ	1:1
Date	Issue No.	Drawn By	Scale
MAY 2012	7369	APZ	N1

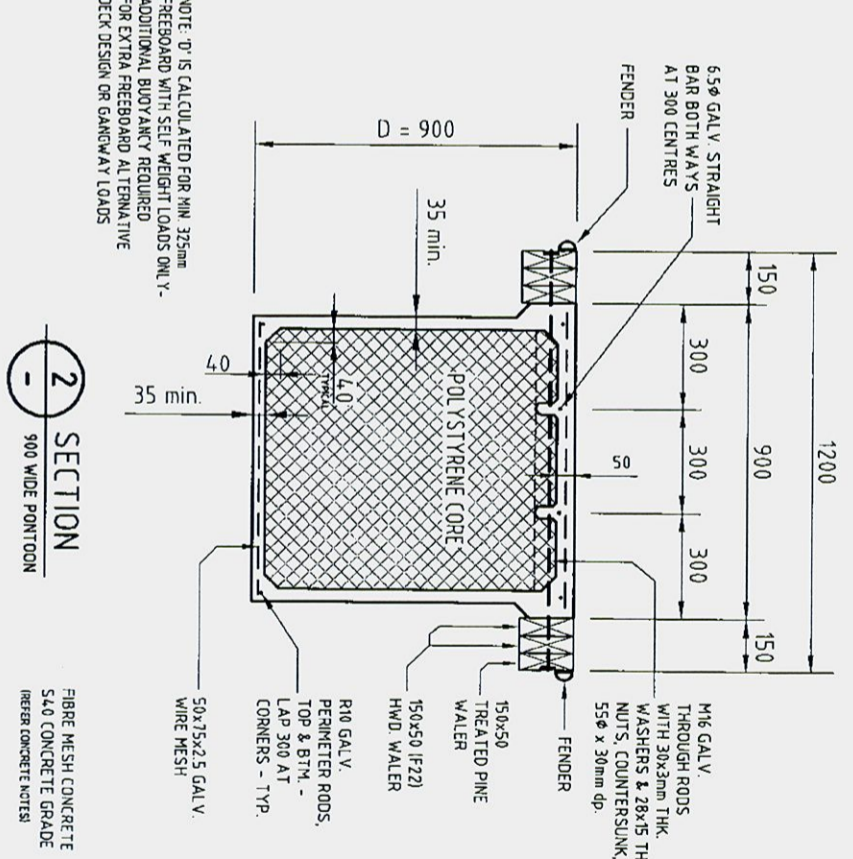


1 SECTION



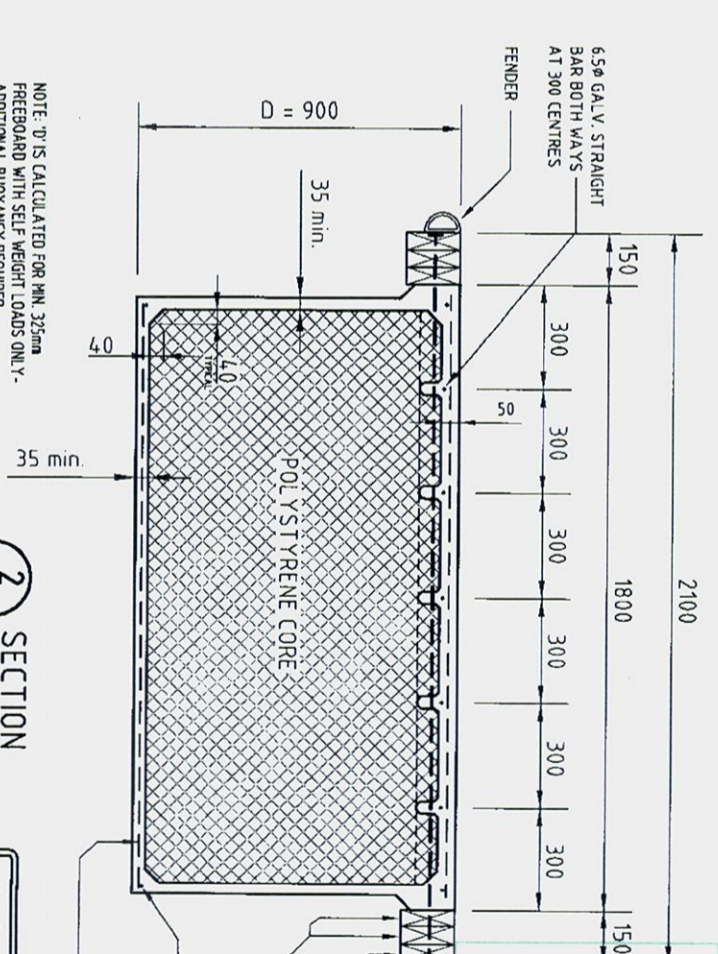
900 x 2990 PONTOON

- 1800 x 2990 PONTOON SIMILAR
- NOTE: WALLERS NOT SHOWN FOR CLARITY
- REFER TO DWG. N1 FOR TYPICAL NOTES



2 SECTION  
900 WIDE PONTOON

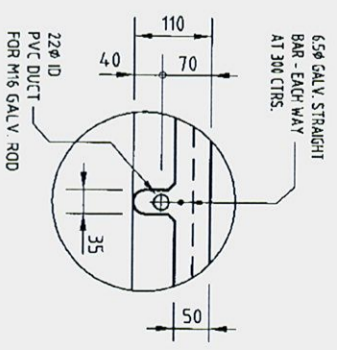
NOTE: D'S IS CALCULATED FOR MIN. 325mm FREEBOARD WITH SELF WEIGHT LOADS ONLY. ADDITIONAL BUOYANCY REQUIRED FOR EXTRA FREEBOARD ALTERNATIVE DECK DESIGN OR GANGWAY LOADS



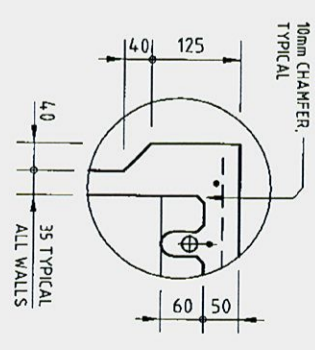
2 SECTION  
1800 WIDE PONTOON

NOTE: D'S IS CALCULATED FOR MIN. 325mm FREEBOARD WITH SELF WEIGHT LOADS ONLY. ADDITIONAL BUOYANCY REQUIRED FOR EXTRA FREEBOARD ALTERNATIVE DECK DESIGN OR GANGWAY LOADS

B DETAIL



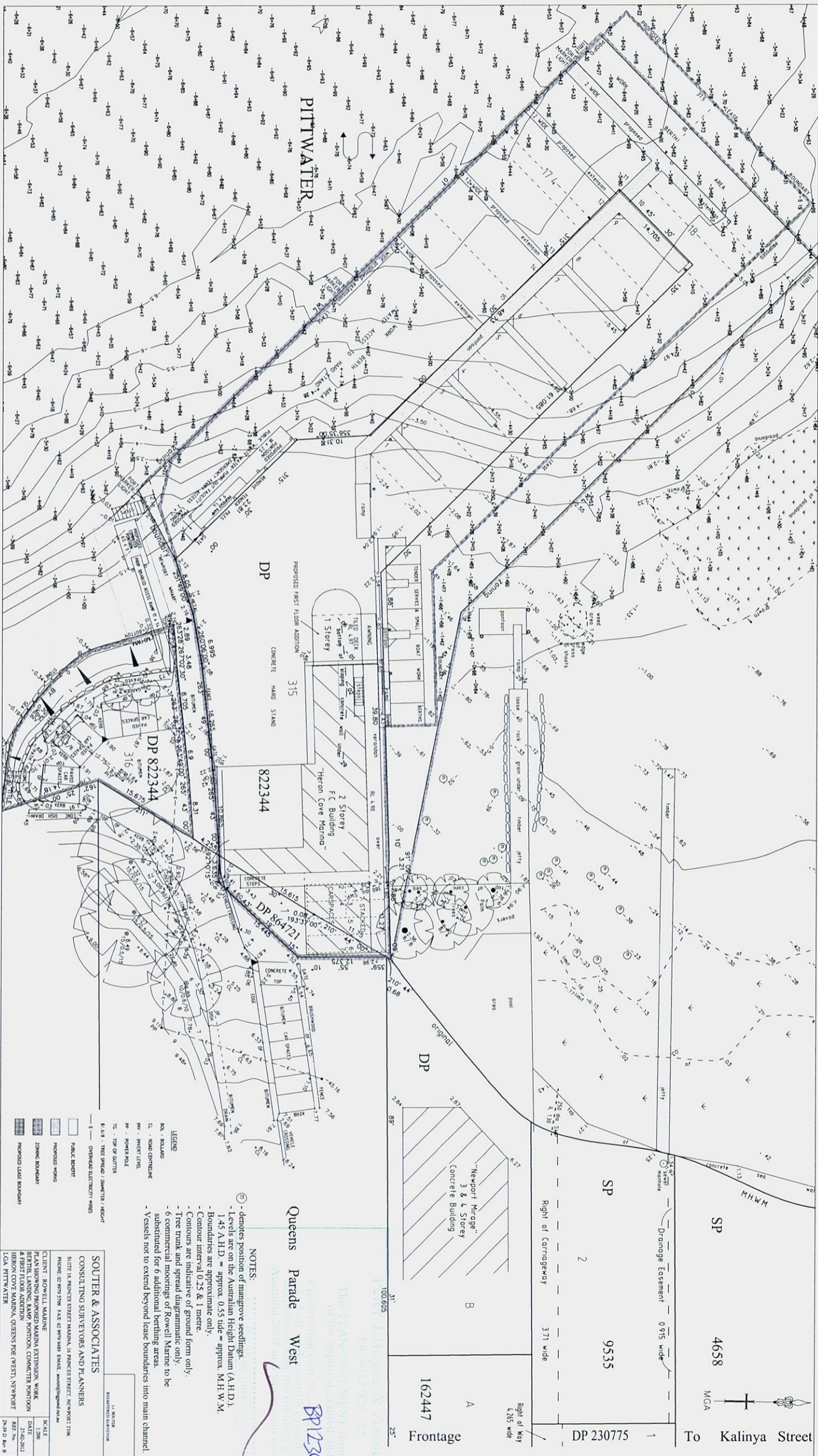
A DETAIL



**CONFIDENTIAL**  
FOR BELL ROCK CONSTRUCTIONS ONLY

Issue	Date	21-04-12	ISSUED FOR CONSTRUCTION Amendment	App'd	Client:	BELL ROCK CONSTRUCTIONS MOBILE: 0414 697 166	Project:	PROPOSED MARINA EXTENSION AT: HERON COVE MARINA, QUEENS PARADE (WEST) NEWPORT, PITTSWATER.	Title:	PONTOON DETAILS	ARDILL PAYNE & PARTNERS CONSULTING CIVIL AND STRUCTURAL ENGINEERS PROJECT MANAGERS TOWN PLANNERS AND SURVEYORS 79 Turner Street P.O. Box 20 BALLINA NSW 2478 A.B.N. 51 808 558 977 Telephone: 02 6684 3200 Facsimile: 02 6682 1720 e-mail: info@ardillpayne.com.au Website: www.ardillpayne.com.au	Drawn	WEP	Scale	A1	1:10	Checked	APP	Date	17/05/2012	Drawn	WEP	Scale	A1	1:10	Checked	APP	Date	17/05/2012
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**NOTES:**

- ⊙ denotes position of mangrove seedlings.
- Levels are on the Australian Height Datum (A.H.D.) 1.45 A.H.D. = approx. 0.55 tide = approx. M.H.W.M.
- Boundaries are approximate only.
- Contour interval 0.25 & 1 metre.
- Contours are indicative of ground form only.
- Tree trunk and spread diagrammatic only.
- 6 commercial moorings of Rowell Marine to be substituted for 6 additional berthing areas.
- Vessels not to extend beyond lease boundaries into main channel.

**LEGEND**

- RA - ROADLINE
- CL - ROAD CENTRELINE
- RM - RIGHT LEVEL
- PP - POWER POLE
- TO - TOP OF CUTTING
- E.A.B. - TREE SPREAD / QUANTITIES / HEIGHT
- OVERLAP ELECTRICITY WIRES
- PUBLIC RIGHT
- PROPOSED WORKS
- ZONING BOUNDARY
- PROPOSED LAND BOUNDARY

**SOUTER & ASSOCIATES**  
 CONSULTING SURVEYORS AND PLANNERS  
 SUITE 14, RINDGES STREET, MARINA, 16 PRINCES STREET, NEWPORT 2106  
 PHONE: 02 9979 2700 FAX: 02 9979 4488 EMAIL: [info@souter.com.au](mailto:info@souter.com.au)

CLIENT: ROWELL MARINE  
 PROJECT: HERON COVE MARINA EXTENSION, WORK  
 BERTH, LANDING, RAMP, POSITION, CONCRETE PAVEMENT  
 & FIRST FLOOR ADDITION  
 HERON COVE MARINA, QUEENSBAY PIER, NEWPORT  
 LOCALITY: PITTWATER

SCALE: 1:200  
 DATE: 27-02-2012  
 REF. NO.: 2630-D-01  
 2630-D-01-03

*Handwritten:* BP12304

*Stamp:* This is a PRELIMINARY PLAN of the proposed development and is not to be used for any other purpose without the written consent of the relevant authority.