



# Notice to council of determination of application for a certificate

Council Copy

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19 MAR 2015  
PITTWATER COUNCIL

NOTICE TO (Insert council's details and address)

Council name  
Pittwater Council

## SECTION A. NOTICE

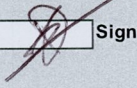
As required by clause 142(2) of the EP&A Regulation 2000 (the Regulation), notice is hereby given of the determination of the following application:

Applicants name: Jonathon Boyd  
Development address: Lot 54 DP 14682 No 1015 Barrenjoey Road Palm Beach 2108  
Date received: 04/12/2014 Date determined: 16/03/2015

## SECTION B. Attachments (tick appropriate box(es))

Application for construction certificate  Determination of application  Construction Certificate  Record of inspection made under clause 143B of the Regulation  Other endorsed documents lodged with the application for the certificate or received under clause 140 of the Regulation

## SECTION C. Certifying Authority

Name: Domenic Di Matteo Signature:   
Accreditation No.: 1869 Date: 16/03/2015

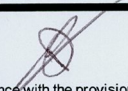
PRVC \$36.00 Rec: 376066  
19/03/15





Council  
Copy

**CONSTRUCTION CERTIFICATE No:** X2014-/01708

**Signature:**  **Dom Di Matteo** **Approval Date:** 16/03/2015  
Issued in accordance with the provisions of the Environmental & Assessment Act of 1979 under Sections 109C(1)(b) and 109F **Date Application Received:** 04/12/2014

**Council:** Pittwater Council

**Development Consent No:** N0678/10 **Approval Date:** 23/02/2011  
**Section 96 Consent No:** N0678/10/S96/1 **Approval Date:** 09/09/2013  
**Name of Certifying Authority:** Dom Di Matteo  
**Accreditation No:** 1869  
**Accreditation Body:** BUILDING PROFESSIONALS BOARD

**Applicant:** Jonathon Boyd  
**Address:** 127 Victoria Road Bellevue Hill 2023  
**Contact Number:** 9260 4000

**Owner:** Jonathon Boyd  
**Address:** 127 Victoria Road Bellevue Hill 2023  
**Contact Number:** 9260 4000

**Site Address:** Lot 54 DP 14682 No 1015 Barrenjoey Road Palm Beach 2108

**Description of Development:** Demolition of existing single storey cottage and construction of a new two storey masonry and timber dwelling with a small basement, detached outdoor beach pavilion with a storage basement and associated site landscaping

**Building Code of Australia Classification:** 1a **Value of Work:** \$1500000.00

**Builder Details**  
**Name:** Jonathon Boyd  
**Licence / Permit Number:** 418478P  
**Address:** 127 Victoria Road Bellevue Hill 2023  
**Contact Number:** 9260 4000

**Approved Plans and Documents**

Plans Prepared By	Drawing Nos.	Dated
Walter Barda Design	Drawing DA100 & 105 Issue B, DA101 - 104 Issue C	12/06/2013
BASIX	489529S	26/06/2013
Sydney Traffic Control	Construction Traffic Management Plan	18/02/2015
Engineer Details	Drawing Nos.	Dated
Geoff Nannes, Fong & Partners Pty. Ltd.	Job SN7865 Drawing S0 - S3 Issue B	29/01/2015
Geoff Nannes, Fong & Partners Pty. Ltd.	Job SN7865 Drawing S4 Issue A	22/10/2014
Jack Hodgson Consultants Pty Ltd	Job 27248-H3 & H4	11/02/2015
Douglas Partners Pty Ltd	Form 2 Geotechnical Risk Management Policy	23/01/2015
Geoff Nannes, Fong & Partners Pty. Ltd.	Structural Design Certificate	03/02/2015



# Levy Online Payment Receipt

## Building and Construction

JOHN BOYD  
127 VICTORIA RD  
BELLEVUE HILL NSW 2023

Council  
Copy

### Application Details:

Applicant Name:	JOHN BOYD
Levy Number:	5085425
Application Type:	CC
Application Number:	N0678/10
Approving Authority:	PITTWATER COUNCIL

### Work Details:

Site Address:	1015 BARRENJOEY RD PALM BEACH NSW 2108
Value of work:	\$1,500,000
Levy Due:	\$5,250.00

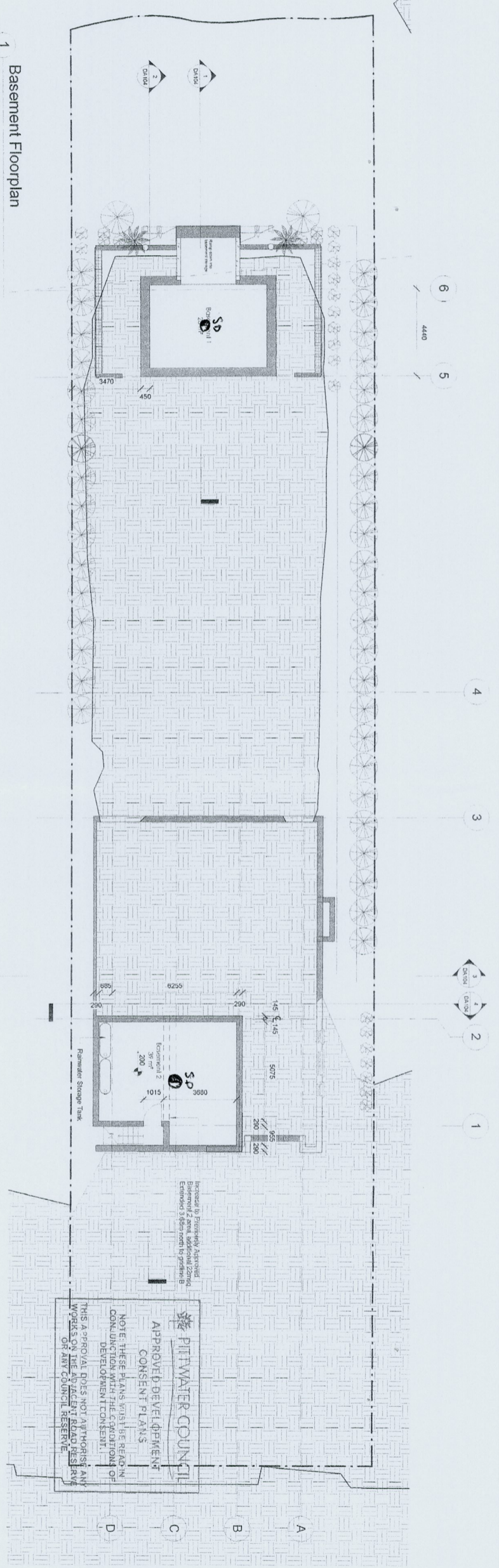
### Payment Details:

LSC Receipt Number:	190098
Payment Date:	2/02/2015 2:38:55 PM
Bank Payment Reference:	786327464
Levy Paid:	\$5,250.00
Credit card surcharge:	\$21.00
<b>Total Payment Received:</b>	<b>\$5,271.00</b>

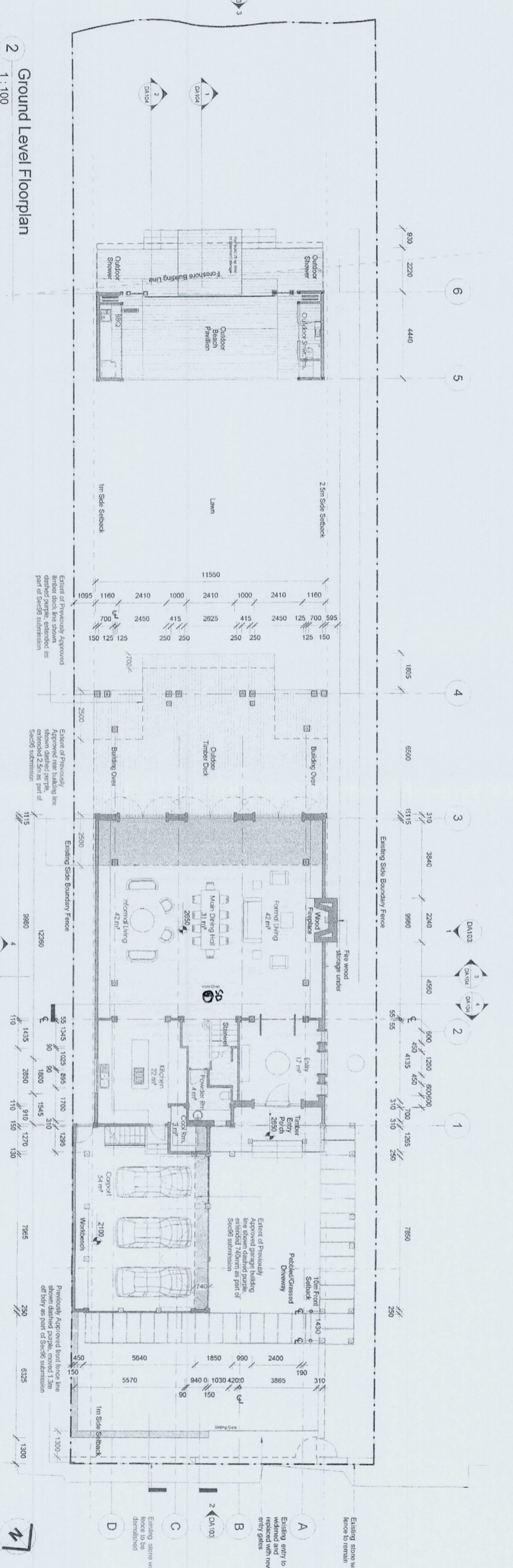








1 Basement Floorplan  
1 : 100



**Walter Borda Design**  
 Architecture  
 Interiors  
 3/24 - 1/8/15 Waterloo Avenue - Sydney NSW 2000  
 Phone: 02 9390 2540 Fax: 02 9390 2525

**SECTION 98 SCHEDULE OF AMENDMENTS**

**98.1 Basement Floorplan**  
 Increase to Previously Approved Basement 2 area, additional 22m<sup>2</sup>. Extended 3.6m north to garage B.

**98.2 Ground Level Floorplan**  
 A. Extend of 7.4m from building line to new building line at rear (western side) by 2.5m.  
 B. Extend of 7.4m from building line to new building line at rear (western side) by 2.5m.  
 C. Extend of 7.4m from building line to new building line at rear (western side) by 2.5m.  
 D. Extend of 7.4m from building line to new building line at rear (western side) by 2.5m.

**98.3 Upper Level Floorplan**  
 A. Previously Approved timber floor line at rear (western side) extended by 2.5m.  
 B. Previously Approved timber floor line at rear (western side) extended by 2.5m.  
 C. Previously Approved timber floor line at rear (western side) extended by 2.5m.  
 D. Previously Approved timber floor line at rear (western side) extended by 2.5m.

No.	Description	Date
A	Issue for DA	20-11-2013
B	Issue for DA	14-01-2014
C	Issue for DA	14-01-2014
D	Issue for DA	14-01-2014

**John Boyd**  
 1015 Barronfry Road  
 Palm Beach NSW  
 SEC 98

**Proposed Lower Level Floorplans**

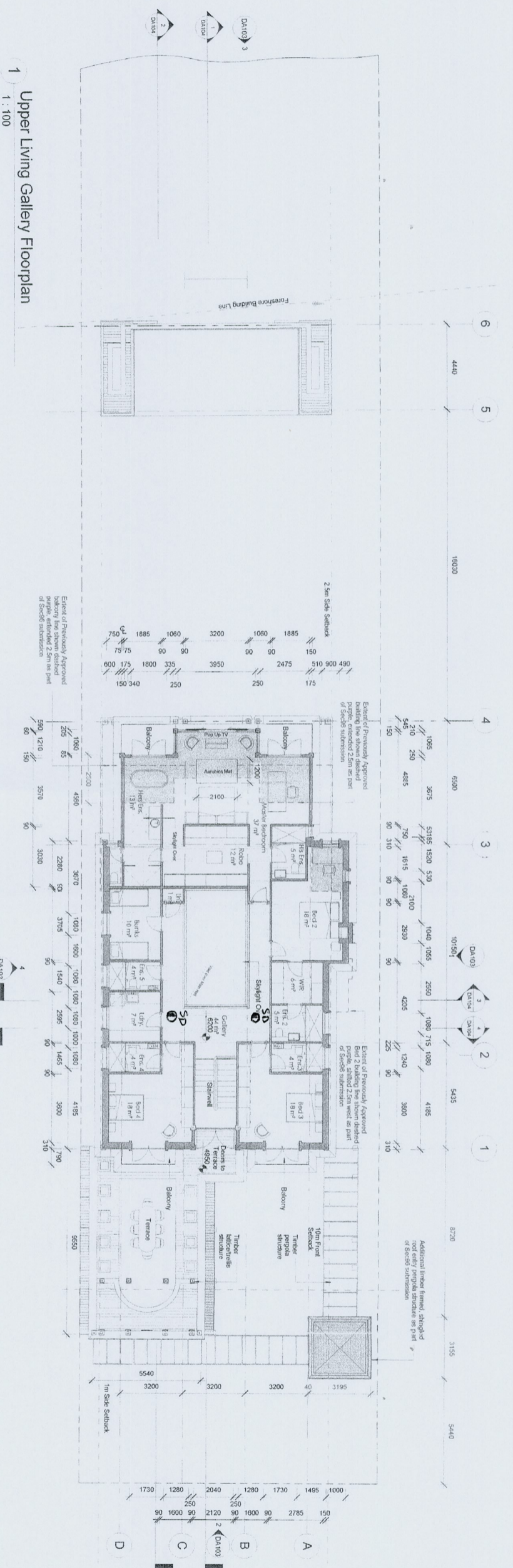
Project Name	Project Number	Scale
1015 Barronfry Road Palm Beach NSW	2010_16_Boyd	SEC 98

Drawn By	Checked By	Approved By
MM	WB	WB

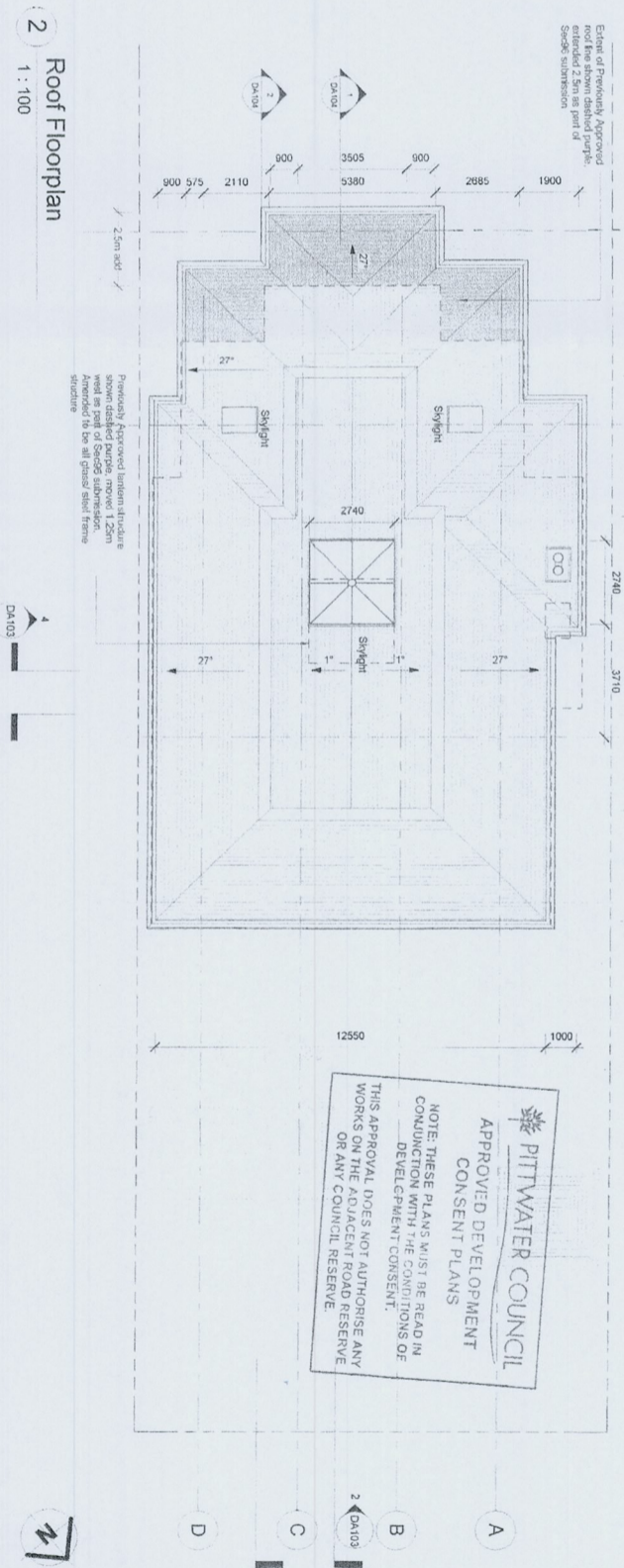
Scale @ A1 1 : 100  
**DA101 C**

This plan/document forms part of the  
 Approved Construction Certificate  
**2014/01708**  
 Issued by DM Certifiers PLB PB 1869





1 Upper Living Gallery Floorplan  
1 : 100



2 Roof Floorplan  
1 : 100

**Water Barda Design**  
Architecture  
Landscape  
Interior  
2/4 - 13-15 Boundary Avenue, Sydney NSW 2000  
Phone: 02-8890 2541 Fax: 02-8890 2524

**SECTION 96 SCHEDULE OF AMENDMENTS**

**A** 00. Basement Floorplan  
Increase to Previously Approved Basement 2 area, additional 2.0m<sup>2</sup> Extended 3.0m north to gridline B

**A** 01. Ground Level Floorplan  
Previously Approved rear back garden boundary increased at rear (western side) by 2.5meters  
Previously Approved front fence line at rear (western side) extended out by 2.0meters  
Previously Approved front fence line and gate (west) 1.5m of boundary  
Internal of wall, (garden screen) and down garden landscaping on part of 2.5m side garden increase

**A** 02. Upper Living Gallery Floorplan  
Previously Approved balcony area at rear (western side) extended by 2.5m  
Previously Approved building line at rear (western side) extended by 2.5m  
Internal of wall, (garden screen) and down garden landscaping on part of 2.5m side garden  
Location of windows on south elevation altered to reflect internal wall/room reconfigurations

**A** 03. Roof Level  
Previously Approved beam structure moved 1.25m west, (amended to be all glass steel)  
Previously Approved roof line extended by 2.5m to the rear (west side)

No.	Description	Date
A	Submitted to DA	20-11-2013
B	Submitted to DA	15-08-2013
C	SECTION 96 ISSUE	15-08-2013

**Boyd Palm Beach House**  
John Boyd

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Project Number: 2010\_16\_Boyd  
Project Status: SEC 96  
**Proposed Upper Level Floorplans**

Drawn By: MM	Checked By: WB	Approved By: WB
Scale: @ A1 1:100	DA102	C

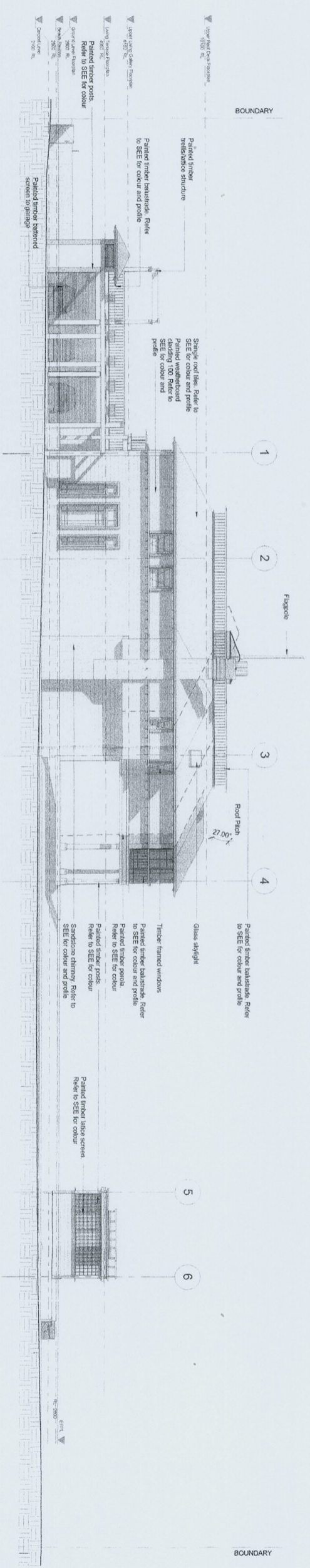
**PITTSWATER COUNCIL**  
APPROVED DEVELOPMENT  
CONSENT PLANS  
NOTE: THESE PLANS MUST BE READ IN  
CONJUNCTION WITH THE CONDITIONS OF  
DEVELOPMENT CONSENT.  
THIS APPROVAL DOES NOT AUTHORISE ANY  
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OR ANY COUNCIL RESERVE

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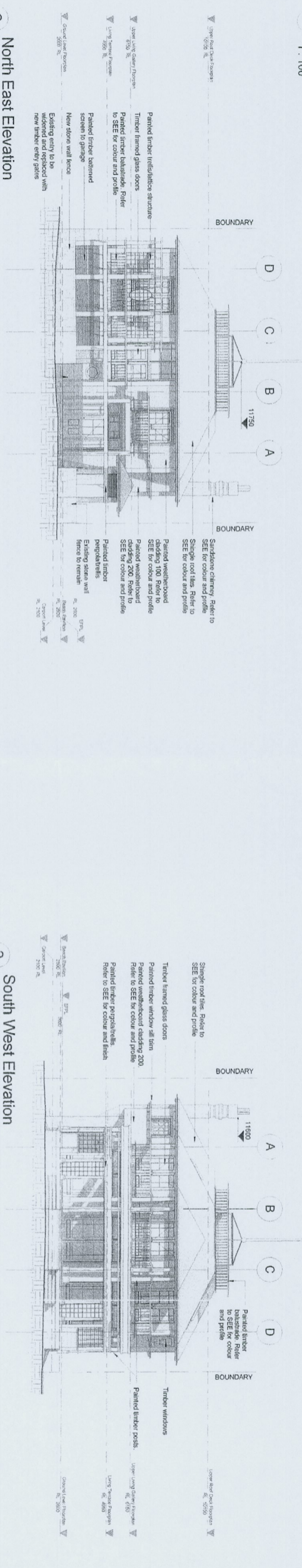
2014/01708

Issued by DM Certifiers P/L BPB 1889

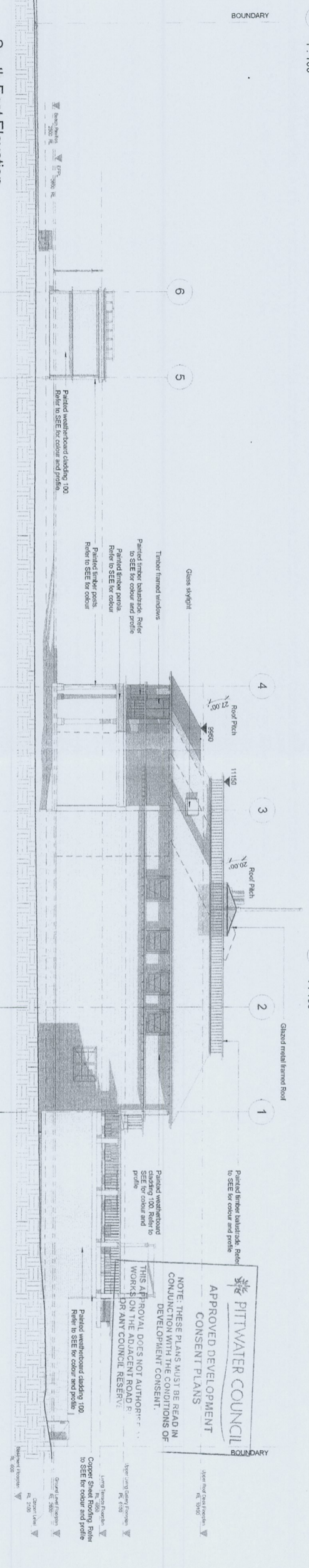




1 North West Elevation  
1 : 100



2 North East Elevation  
1 : 100



3 South West Elevation  
1 : 100

4 South East Elevation  
1 : 100

**Walter Borda Design**  
Architecture  
Interiors

21/2 - 13/15 Wynnum Avenue, Sharnbrook NSW 2207  
www.walterborda.com.au 4394 4847/135 513  
Office: 02 8500 2548 Fax: 02 8500 2584

- SECTION 96 SCHEDULE OF AMENDMENTS**
- A. 00. Basement Floorplan  
In accordance to Previously Approved Basement 2 area, additional 02m<sup>2</sup> Extended 3.5m north to gridline B
- B. 01. Ground Level Floorplan  
In accordance to Previously Approved Ground Level Floorplan, extended 3.5m north to gridline B
- C. 02. External Walling  
In accordance to Previously Approved External Walling, extended 3.5m north to gridline B
- D. 03. External Walling  
In accordance to Previously Approved External Walling, extended 3.5m north to gridline B
- E. 04. External Walling  
In accordance to Previously Approved External Walling, extended 3.5m north to gridline B
- F. 05. External Walling  
In accordance to Previously Approved External Walling, extended 3.5m north to gridline B
- G. 06. External Walling  
In accordance to Previously Approved External Walling, extended 3.5m north to gridline B
- H. 07. External Walling  
In accordance to Previously Approved External Walling, extended 3.5m north to gridline B
- I. 08. External Walling  
In accordance to Previously Approved External Walling, extended 3.5m north to gridline B
- J. 09. External Walling  
In accordance to Previously Approved External Walling, extended 3.5m north to gridline B
- K. 10. External Walling  
In accordance to Previously Approved External Walling, extended 3.5m north to gridline B
- L. 11. External Walling  
In accordance to Previously Approved External Walling, extended 3.5m north to gridline B
- M. 12. External Walling  
In accordance to Previously Approved External Walling, extended 3.5m north to gridline B
- N. 13. External Walling  
In accordance to Previously Approved External Walling, extended 3.5m north to gridline B
- O. 14. External Walling  
In accordance to Previously Approved External Walling, extended 3.5m north to gridline B
- P. 15. External Walling  
In accordance to Previously Approved External Walling, extended 3.5m north to gridline B
- Q. 16. External Walling  
In accordance to Previously Approved External Walling, extended 3.5m north to gridline B
- R. 17. External Walling  
In accordance to Previously Approved External Walling, extended 3.5m north to gridline B
- S. 18. External Walling  
In accordance to Previously Approved External Walling, extended 3.5m north to gridline B
- T. 19. External Walling  
In accordance to Previously Approved External Walling, extended 3.5m north to gridline B
- U. 20. External Walling  
In accordance to Previously Approved External Walling, extended 3.5m north to gridline B
- V. 21. External Walling  
In accordance to Previously Approved External Walling, extended 3.5m north to gridline B
- W. 22. External Walling  
In accordance to Previously Approved External Walling, extended 3.5m north to gridline B
- X. 23. External Walling  
In accordance to Previously Approved External Walling, extended 3.5m north to gridline B
- Y. 24. External Walling  
In accordance to Previously Approved External Walling, extended 3.5m north to gridline B
- Z. 25. External Walling  
In accordance to Previously Approved External Walling, extended 3.5m north to gridline B

No	Description	Date
1	Issue for RFP	20-11-2016
2	Issue for RFP	15-02-2018
3	Issue for RFP	15-02-2018
4	Issue for RFP	15-02-2018

**Revisions**

No. Description Date

1 Issue for RFP 20-11-2016

2 Issue for RFP 15-02-2018

3 Issue for RFP 15-02-2018

4 Issue for RFP 15-02-2018

**Boyd Palm Beach House**

John Boyd

**The Drawing must not be used for Construction unless signed or approved**

Project Name	10-15 Blenheim Road Palm Beach NSW
Project Stage	SEC 96
Scale	Scale @ A1 1:100
Drawn By	MM
Checked By	MB
Approved By	MB
Issue	DA103 C

**PITTWATER COUNCIL**

APPROVED DEVELOPMENT CONSENT PLANS

NOTE: THESE PLANS MUST BE READ IN CONJUNCTION WITH THE CONDITIONS OF DEVELOPMENT CONSENT.

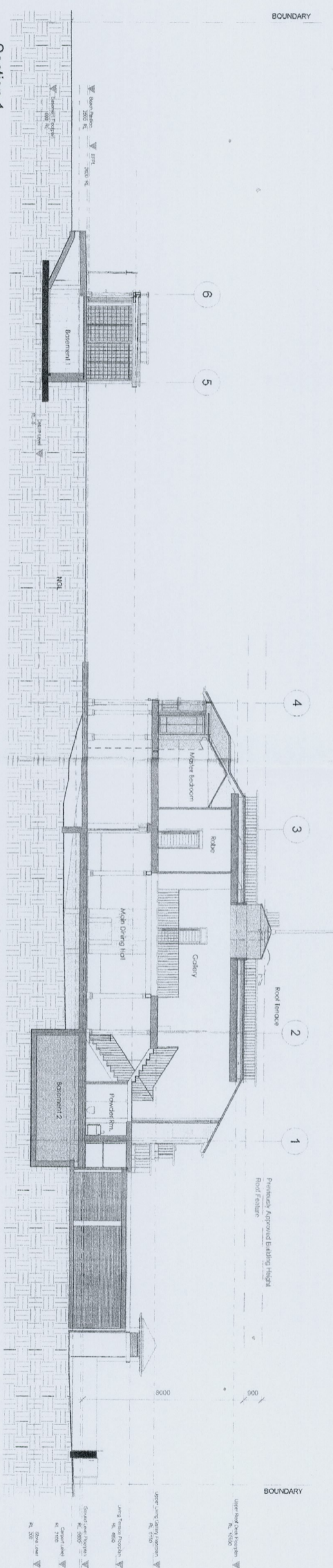
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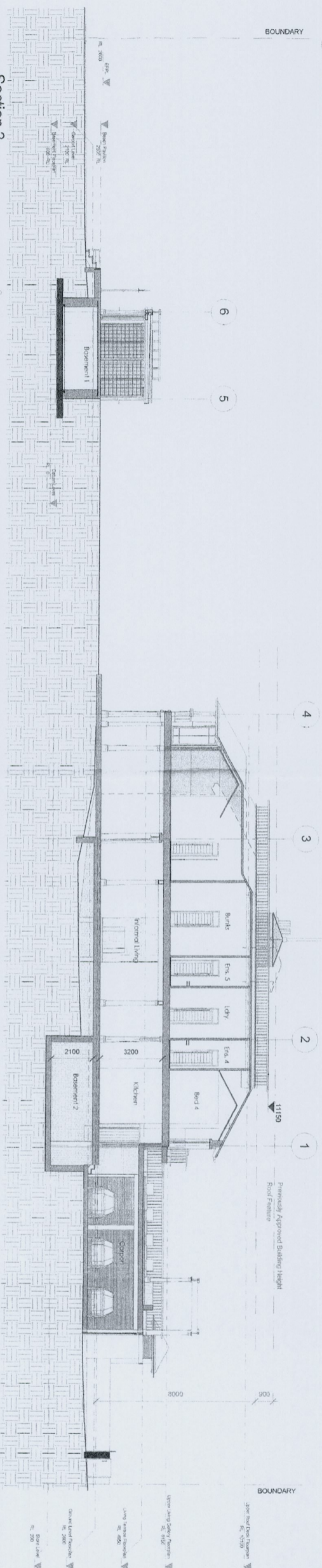
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Issued by DM Certifiers P/L BPB 1899

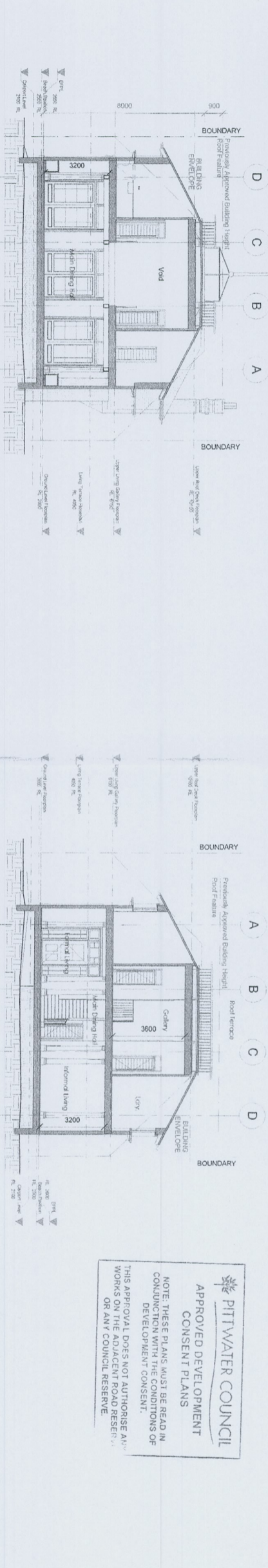




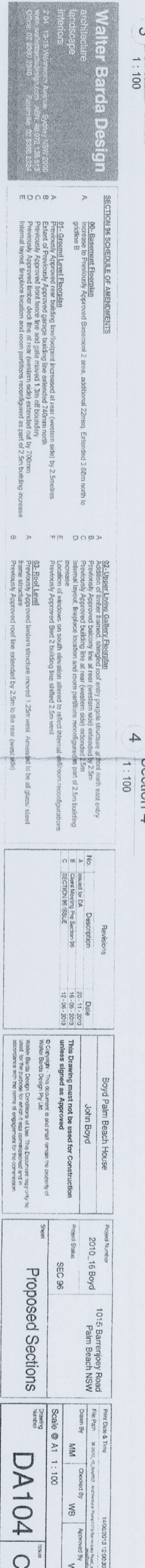
Section 1  
1 : 100



Section 2  
1 : 100



Section 3  
1 : 100



Section 4  
1 : 100

**Walter Barda Design**  
 Architecture  
 Landscape  
 Interiors  
 2/04-79/55 Westmore Avenue Sydney NSW 2000  
 www.walterbarda.com.au Tel: +61 (0)2 933 5315  
 Fax: +61 (0)2 933 5280 Sydney, NSW 2000

**SECTION 3A SCHEDULE OF AMENDMENTS**

**A** Increase to Previously Approved Basement 2 area, additional Zones, Extended 1.30m north to previously approved

**B** 90% Basement Floorplan

**C** 90% Basement Floorplan

**D** 90% Basement Floorplan

**E** 90% Basement Floorplan

**F** 90% Basement Floorplan

**G** 90% Basement Floorplan

**H** 90% Basement Floorplan

**I** 90% Basement Floorplan

**J** 90% Basement Floorplan

**K** 90% Basement Floorplan

**L** 90% Basement Floorplan

**M** 90% Basement Floorplan

**N** 90% Basement Floorplan

**O** 90% Basement Floorplan

**P** 90% Basement Floorplan

**Q** 90% Basement Floorplan

**R** 90% Basement Floorplan

**S** 90% Basement Floorplan

**T** 90% Basement Floorplan

**U** 90% Basement Floorplan

**V** 90% Basement Floorplan

**W** 90% Basement Floorplan

**X** 90% Basement Floorplan

**Y** 90% Basement Floorplan

**Z** 90% Basement Floorplan

No.	Description	Date
A	Issued for DA	25/11/2010
B	Corrected the section 3	18/05/2011
C	Corrected the section 3	15/05/2011

**Boyd Palm Beach House**  
 John Boyd

**This Drawing must not be used for Construction unless signed as Approved**

**Approved** [Signature]

**Checked** [Signature]

**Drawn** [Signature]

Proposed Sections

10/15 Barronroy Road  
 Palm Beach NSW

SEC 96

Drawn By	Checked By	Approved By
MM	WB	WB

Scale @ A1 1 : 100

**DA104**

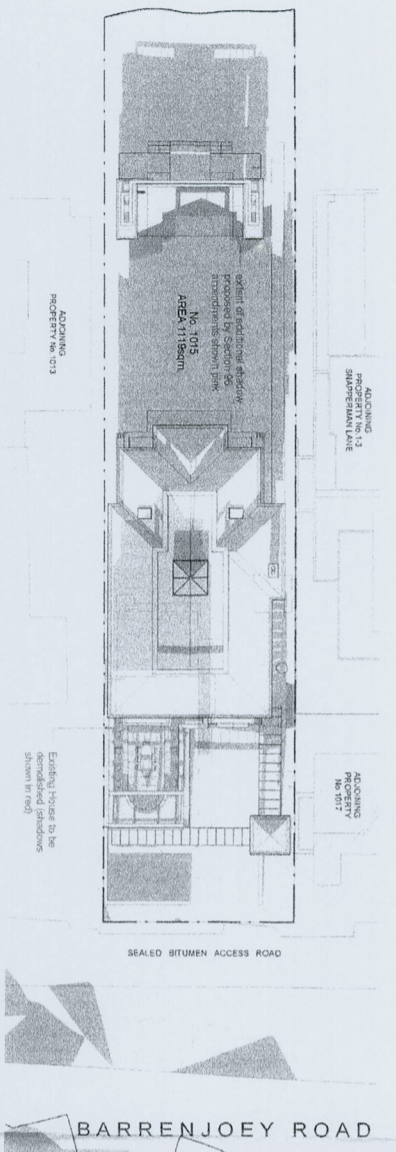
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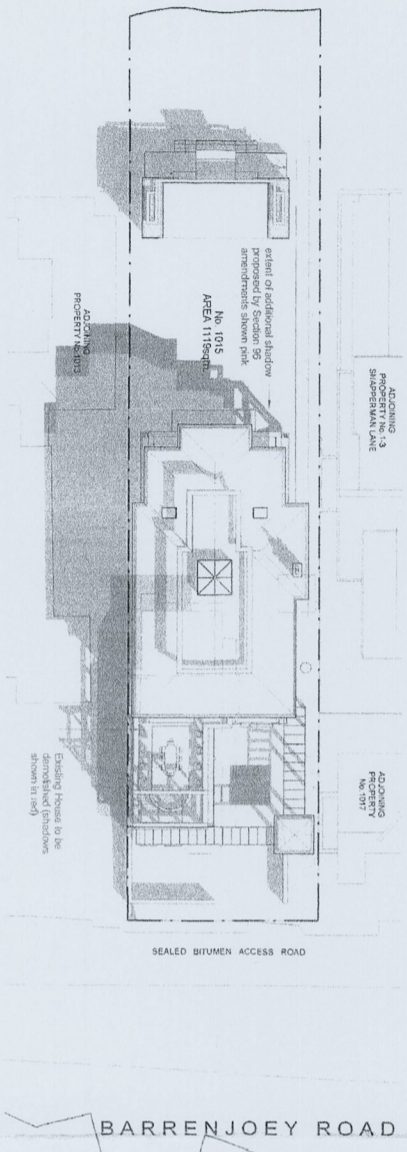
2014/01708

Issued by DM Certifiers P/L BPB 1869

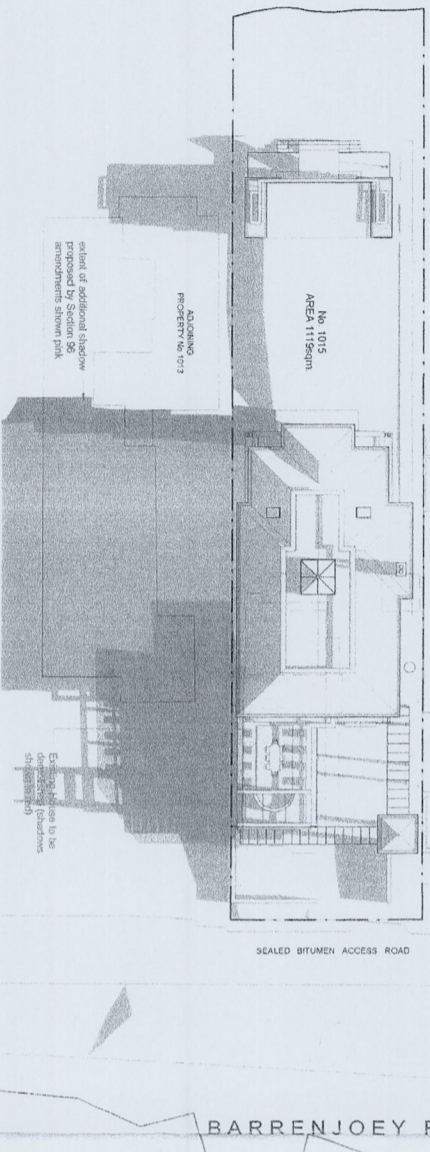




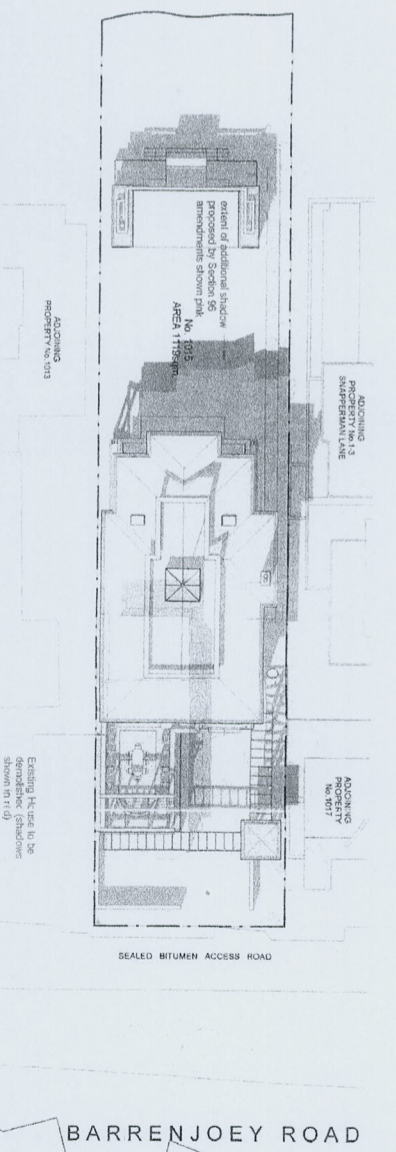
1 Shadow Diagram \_ Winter Solstice 9am  
1 : 250



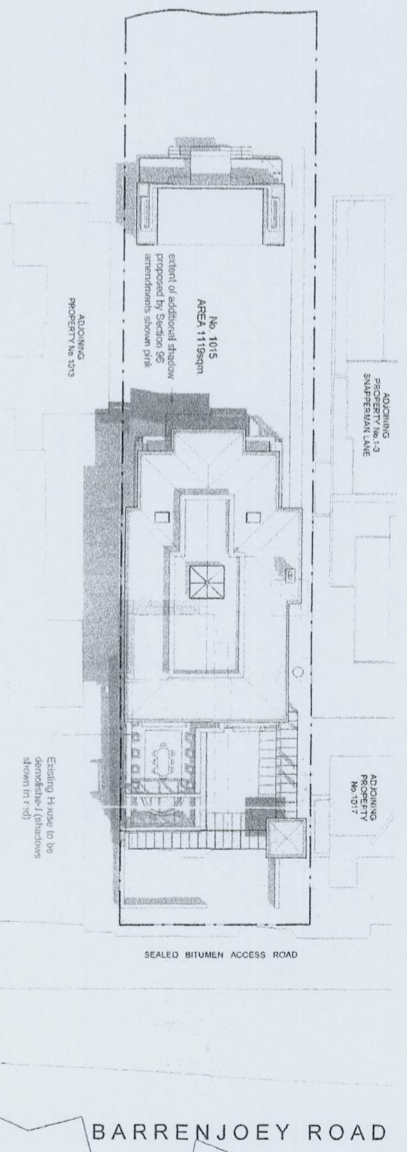
2 Shadow Diagram \_ Winter Solstice 12pm  
1 : 250



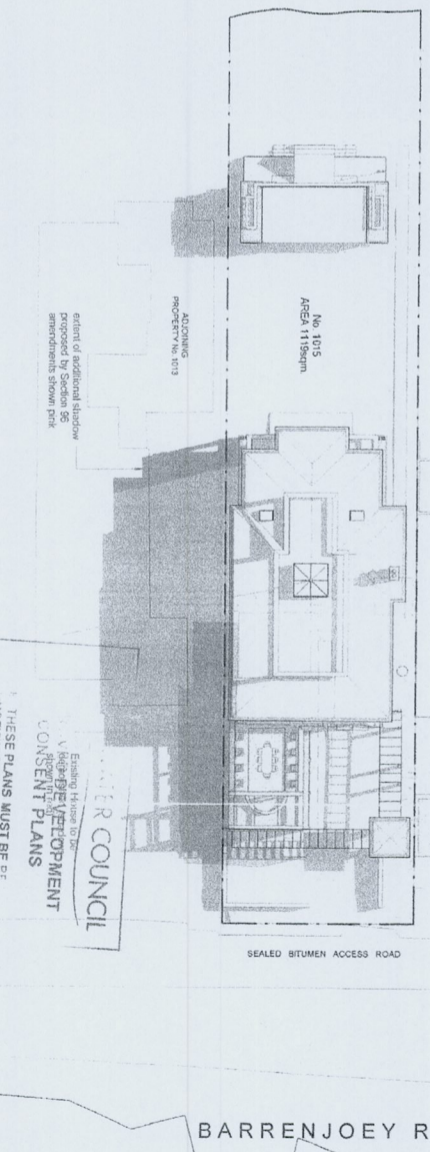
3 Shadow Diagram \_ Winter Solstice 3pm  
1 : 250



4 Shadow Diagram \_ Equinox 9am  
1 : 250



5 Shadow Diagram \_ Equinox 12pm  
1 : 250



6 Shadow Diagram \_ Equinox 3pm  
1 : 250

**Walter Borda Design**  
architectural  
interiors  
landscape

13-15 Stevenson Street, Sydney NSW 2000  
www.walterborda.com.au Tel: 61 2 939 5113  
Fax: 61 2 939 5114  
Office: 6030 2348 Fax: 6030 2334

**SECTION 96 SCHEDULE 6C AMENDMENTS**

96. Basement Floorplan  
A. Amend to Previously Approved Basements 2 area, additional 12thmg. Extended 3.08m north to present B.  
B. Amend to Previously Approved Basements 2 area, additional 12thmg. Extended 3.08m north to present B.  
C. Amend to Previously Approved Basements 2 area, additional 12thmg. Extended 3.08m north to present B.  
D. Amend to Previously Approved Basements 2 area, additional 12thmg. Extended 3.08m north to present B.  
E. Amend to Previously Approved Basements 2 area, additional 12thmg. Extended 3.08m north to present B.

96. Linear Living Ceiling Diagram  
A. Amend to Previously Approved Building Line at all rear (western side) extended by 2.5m increase.  
B. Amend to Previously Approved Building Line at all rear (western side) extended by 2.5m increase.  
C. Amend to Previously Approved Building Line at all rear (western side) extended by 2.5m increase.  
D. Amend to Previously Approved Building Line at all rear (western side) extended by 2.5m increase.  
E. Amend to Previously Approved Building Line at all rear (western side) extended by 2.5m increase.  
F. Amend to Previously Approved Building Line at all rear (western side) extended by 2.5m increase.

96.2. Roof Level  
A. Amend to Previously Approved Building Line at all rear (western side) extended by 2.5m increase.  
B. Amend to Previously Approved Building Line at all rear (western side) extended by 2.5m increase.

No.	Revisions	Date
A <td>Issued to DA</td> <td>20-11-2010</td>	Issued to DA	20-11-2010
B <td>SECTION 96 ISSUE</td> <td>12-06-2013</td>	SECTION 96 ISSUE	12-06-2013

Boyd Palm Beach House  
John Boyd  
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C. Copyright. This drawing is the property of Walter Borda Design Pty Ltd. The drawing may be used for the purposes of the project for which it was prepared, but it is not to be reproduced, stored in a retrieval system, or transmitted in any form or by any means, electronic, mechanical, photocopying, recording, or by any information storage and retrieval system, without the prior written permission of Walter Borda Design Pty Ltd.

Project Name: 1015 Barranjoey Road Palm Beach NSW  
Project Status: SEC 96  
Scale: Shadow Diagrams

Drawn By	Checked By	Approved By
MM	WB	WB

Scale @ A1: 1:250  
Drawing Number: DA105 B

This plan document forms part of the Approved Construction Certificate

2014/01708

Issued by DM Certifiers P/L BPB 1869

**COUNCIL**  
Existing House to be demolished (shadows shown in red)  
THESE PLANS MUST BE APPROVED IN CONJUNCTION WITH THE CONSTRUCTION DEVELOPMENT CONSENT.  
APPROVAL DOES NOT CONSTITUTE AN ENDORSEMENT OR ANY OTHER FORM OF ENDORSEMENT BY THE COUNCIL.



# BOYD PALM BEACH HOUSE

## 1015 BARRENJOEY ROAD, PALM BEACH

### GENERAL NOTES

- G1 Do not obtain dimensions by scaling these drawings. Only principal structural dimensions are shown. All dimensions are in millimetres.
- G2 Read these drawings in conjunction with all other contract documents and the requirements of the relevant Building Authority. Before proceeding with work, clarify any discrepancies, verify all setting out dimensions.
- G3 Maintain the structure in a stable condition during construction. Do not exceed the design live loads shown or cause any element to be overstressed.
- G4 Design Loads in accordance with AS 1170
- |             |         |               |  |
|-------------|---------|---------------|--|
| Live Load   | 1.5 kPa | Windload      | Regional wind speed (V <sub>R</sub> -40) m/s |
| Residential |         | Star, Balcony | 2 kPa  |
|             |         | Roads         | 0.25 kPa                                     |
|             |         | Others        | R <sub>PA</sub>                              |
- G5 Approval of a substitution is not authorisation for an extra
- ### FOUNDATIONS
- F1 Footings have been designed for an allowable bearing pressure of NA kPa. Obtain approval for the proposed foundation material before placing concrete. Do not found on top soil/fill or vegetation. Note: Bearing capacity of greater than 500 kPa refers to rock.
- F2 The design only applies for ground and foundation levels as shown on the drawings.
- F3 Site classification to AS 2870 TP foundation material.
- F4 Backfill foundation walls so that the level of fill on one side of the wall is never more than 450 above the level on the other side, except where detailed retaining walls are used.

### CONCRETE

- C1 Conform to AS 3600 and the ACSE Concrete Specification except where varied by the contract documents.
- C2 Provide concrete with a strength of  $f_c = 40$  MPa U.N.O.
- OTHER - maximum slump of 80  
maximum aggregate size 20  
cement type GP  
no admixtures, or, unless excluded CAC2
- C3 Sizes of concrete elements do not include thickness of applied finishes.
- C4 Beam depths are within first and include slab thickness.
- C5 Do not make any construction joints, holes or chases in the concrete elements unless shown or approved by the Engineer.
- C6 Do not place pipes or conduits within the concrete cover to reinforcement.
- C7 Reinforcement shall be:
- N - Grade D 500N bar to AS/NZS 4671
  - SLUR - Grade D500 SLD 500 RL to AS/NZS 4671
  - T - Top of element
  - B - Bottom
  - R - Grade R 250 N hot-rolled mesh square or rectangular ew - each way
  - SLURN - Grade D 500 SMD 500 RN
  - W - Hard-drawn plain wire to AS 1303
- Normal ductility welded mesh square or rectangular  
S - Grade 250 S hot-rolled deformed bars to AS/NZS 4671  
Example: 8 N16-200T denotes 8 deformed bars of 16 diameter at 200 centres placed in the top of the element.
- C8 Provide clear concrete cover to reinforcement as follows: U.N.O.
- | Element            | Interior                           | Exterior   | Against Ground         |
|--------------------|------------------------------------|------------|------------------------|
| Footings           | -50mm                              | -50mm      | 50mm                   |
| Columns, Pedestals | 30mm                               | 50mm       |                        |
| Slabs, Walls       | 25mm                               | Refer Plan | 40mm on kerbs/parapets |
| Beams              | 25mm                               | 50mm       | 50mm                   |
| Blockwork          | 50mm from appropriate outside face |            |                        |

- C9 Use maximum bar clear spacing of 60 diameters for supporting bars and 750 for fabric. Plastic bar chairs that resist any of concrete into and around them are not to be used.
- C10 Provide laps only at locations shown unless otherwise approved by the Engineer.
- C11 For oblong fabric, place top fabric main wire uppermost and bottom fabric main wire lowermost in direction of arrows.
- C12 Supply and lay fabric in flat sheets. Overlap first and second cross wires of each sheet by 30 all laps.
- C13 Do not weld reinforcement unless shown or approved by the Engineer.
- C14 The all unsupported bars to N 2509 all laps 450.
- C15 Do not build brick or block work on suspended work until all shoring has been removed.
- C16 Prop camber slabs and beams from a firm support for a minimum of 28 days.
- C17 Provide the Engineer with 24 hours notice of reinforcement being ready for inspection. Do not order concrete until reinforcement is approved.
- C18 Reinforcement is shown diagrammatically and not necessarily in the position.
- C19 All concrete shall be placed and cured in accordance with Section 4.4, 4.5 & 17.15 AS 3600. Except that the min. curing time shall not be less than 7 days. Apply aliphatic alcohol immediately after final screeding of slabs to prevent premature drying out. (This is not a substitute for curing.) Where curing compound is used it must be applied (A) onto slabs within 2 hrs of finishing operation (B) onto walls and columns immediately after removal of framework.
- C20 Horizontal framework shall be stripped when approved by the engineer.
- C21 Slabs and beams shall bear on only the beam, walls, etc. shown on the drawings. All other building elements shall be kept 15mm clear from soffits of structure.
- C22 Where slabs or beams bear on masonry, the top course shall be level, smooth and covered with slip joint U.N.O. Slip joint to have 2 layers of galvanised sheet metal with granular filling in between.
- C23 Framework shall be designed and constructed in accordance with AS3601.

### STEELWORK NOTES

- S1 All workmanship and materials shall be in accordance with current editions of S/A codes AS 4100, AS 1554 and ACSE Steel Specification, except as varied by the contract documents.
- S2 Structural grade (Fy 300MPa) quality steel shall be used throughout unless noted otherwise.
- S3 Submit all shop drawings to the Engineer for approval of general arrangement of structural elements before commencing fabrication.
- S4 Steelwork not to be encased or not otherwise noted shall be given one coat of approved metallic primer at least 48 hours before encasement. All external steel to be not dipped galvanised U.N.O.
- S5 Steelwork to be encased in concrete shall not be painted but shall be given one coat of cement wash. Members to be wrapped with No.14 fabric or 50mm wire at 150mm pitch and encased in 20MPa concrete with minimum 50mm cover.
- S6 The contractor shall provide and employ any additional temporary bracing etc. necessary to adequately and safely hold steelwork in position during construction.
- S7 Proprietary items (e.g. pultrus, bolts, etc.) shall be installed in accordance with manufacturers specifications U.N.O. STEELWORK
- S8 Unless noted otherwise use:
- Welding to AS1554 by qualified welders
  - 10mm thick gusset, fin and end plates, fully welded.
  - 6mm continuous fillet weld made with general purpose steel electrodes in accordance with AS 1554
- S9 Chip all welds free of slag.
- S10 Do not grind under base plates until first level steelwork is plum and fixed by welding or bolting.
- S11 Bolts to be grade 8.8 Metric Hexagon Bolts.
- S12 Bolted end plates grade 8.8 high strength steel bolts to AS 1252
- bolting category  
8.8S = snug tight, 8.8T = fully tensioned to AS1511.
- S12 All cold formed steel shall be in accordance with AS 1538 for design & AS1307/1594/1595 for material properties.
- S13 All pultrus & girts shall be grade 450 steel zinc coated min. 200g/m<sup>2</sup> U.N.O.

### BLOCKWORK NOTES

- M1 All workmanship and materials in accordance with AS 3700 and AS 2733.
- M2 Mortar shall be freshly prepared, uniformly mixed in the following ratio: 1:1 1/2:10:3 cement, lime sand, in accordance with AS4 123 and AS 3700 clause 2.2.2.
- M3 Bottom course of blocks to have inspection openings to all cores to be grouted. Thoroughly clean all cores prior to reinforcement placing.
- M4 Site pour 50 below top of block. Minimum grout strength 20MPa Slump - 230mm. Max aggregate size = 10mm
- M5 Provide vertical control joints in walls at 8 metre max. centres, U.N.O.
- M6 Tie all vertical reinforcement to starter bars and top horizontal reinforcement.
- M7 Maximum pour height to be 2400.
- M8 Open ended double u - blocks to be used for all reinforced blockwork.

### TIMBER



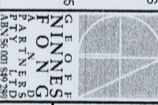
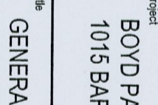
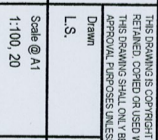
- T1 All timber construction to conform with AS 1684 and the NSW Timber Framing Manual in addition to the details shown.
- T2 The down ends of all members in accordance with AS1684.
- T3 Refer to the specification for preservatives and finishes to timber.
- T4 External timber to be hardwood (class 2 to AS1170.2 min.) or treated pine (preservative) equivalent.
- T5 All bolts, nuts & washers shall be hot dipped galvanized U.N.O. Recessed bolts 6 months after installation, all bolts to be M16 grade 4.6 with hexagonal heads U.N.O. Washer shall be a min. diameter of 2.5 times the bolt diameter U.N.O.
- T6 All dimensions refer to finished sizes.
- ### TIMBER TRUSSES
- T7 Prefabricated trusses shall be in accordance with the manufacturer's specifications.
- T8 Shop drawings shall be prepared and submitted to the engineer for review prior to fabrication.
- T9 Pre-camber shall be provided to the bottom chord of trusses.
- T10 Certification shall be provided by the truss manufacturer covering the design, fabrication and installation of trusses

### BRICKWORK NOTES

- B1 Conform to AS3700. Do not build or propped slabs.
- B2 Curing and chasing of brickwork to have prior approval from Engineer.
- B3 Minimum compressive strength of bricks shall be 20MPa.
- B4 Minimum mortar to be 1:1 1/2 U.N.O. Do not use bond breaking wetting agents.
- B5 Reinforce all brickwork on slabs with no walls under with 280 rods per bed 1 cup from slab.
- B6 Tie walls to steel or concrete structure with 32mm x 1.2mm heavy gal. steel straps 500 long at every 4th course.
- B7 Brick ties to walls to be at 800 centres horizontally and every 4th course vertically.
- B8 Provide expansion joints at max. centres.
- B9 All perpends, except where required for weepholes are to be fully filled with mortar.

DRAWING SHEET LIST	
Sheet Number	Sheet Title
S0	GENERAL NOTES & COVER SHEET
S1	FOOTING & BASEMENT PLAN AND DETAILS
S2	FIRST FLOOR PLAN
S3	FIRST FLOOR SECTIONS
S4	ROOF PLAN, SECTIONS AND DETAILS

This plan/document forms part of the  
Approved Construction Certificate  
2014/01708  
Issued by DM Certifiers P/L BPB 1866

<b>FOR CONSTRUCTION</b>											
Director Responsible	Name	Initial	Date	LS	29-01-15	Geoff Innes Fong & Partners ACN No. 007 848 289 ABN No. 56 007 848 289 Consulting Engineers 1015 BARRENJOEY ROAD, PALM BEACH QLD 4217 Phone 08 5321 0159 email: geoff@innesfong.com.au		BOYD PALM BEACH HOUSE 1015 BARRENJOEY ROAD, PALM BEACH		Scale @ A1 1:100, 20	
Designs Responsible For Preparation	B.FONG	B.F.	21/02/12	B	22-10-14	PERTH OFFICE P.O. BOX 9188 Subiaco East, WA, 6008 Phone 08 5321 0159 email: perth@innesfong.com.au		Title GENERAL NOTES & COVER SHEET		Checked B.F.	
Design and Drawing Reviewed and Checked	B.FONG	B.F.	.	A	22-10-14	APPROVAL M.F.		Date JUNE 2014		Approved M.F.	
Authorised For Construction	B.FONG	B.F.	.	1	15-07-14	REVISION PRELIMINARY		Approved by L.S.		Date 15-07-14	
Authorised For Construction						Approved by L.S.		Date 22-10-14		Approved M.F.	

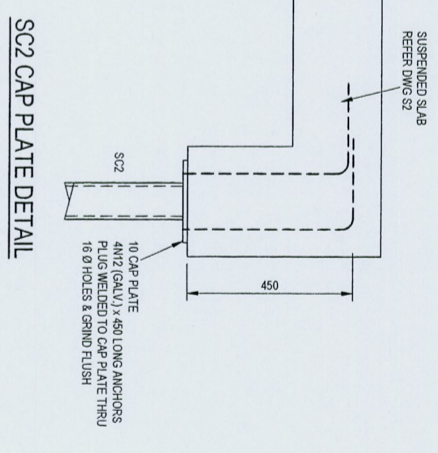
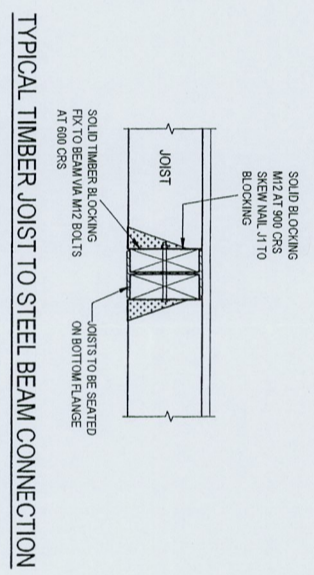
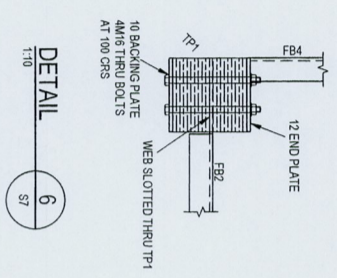
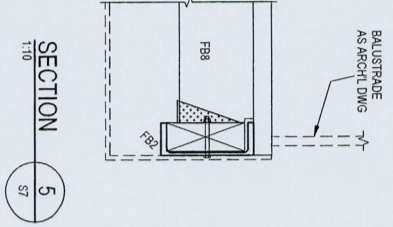
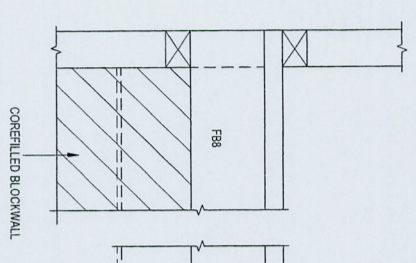
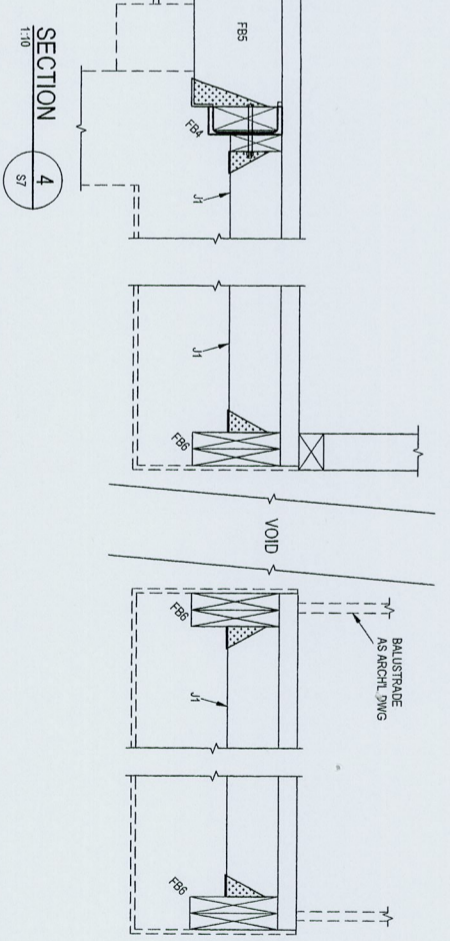
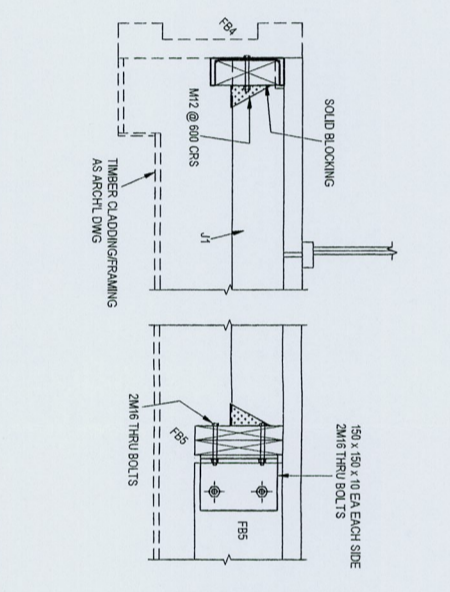
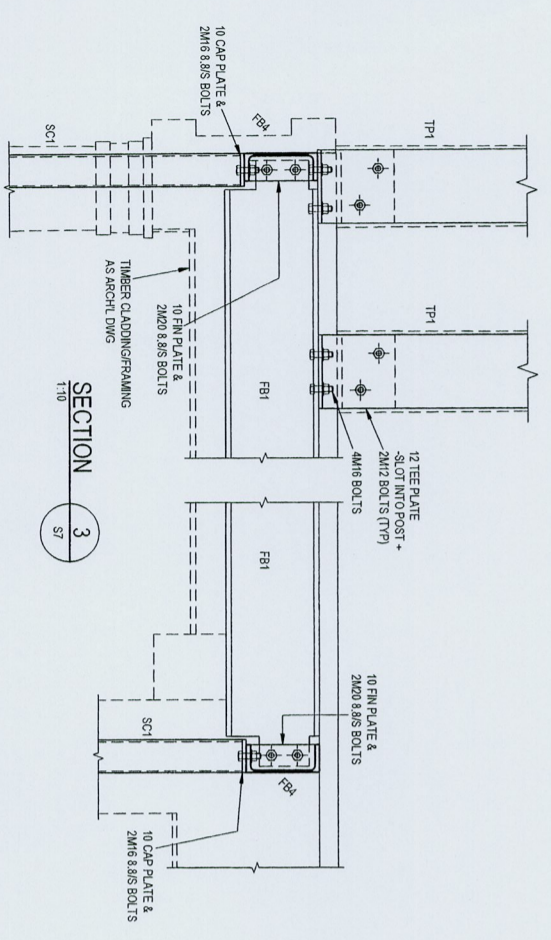












**FOR CONSTRUCTION**

Director Responsible	Name	Initial	Date	FOR CONSTRUCTION	LS	28-01-15
Design and Drawing Reviewed and Checked	B.FONG	B.F.	21.02.12	FOR TENDER	LS	22-10-14
Design and Drawing Reviewed and Checked	H.HENG	H.H.		SC2 CAP PLATE DETAIL ADDED	LS	31-07-14
Design and Drawing Reviewed and Checked	H.HENG	H.H.		PRELIMINARY	LS	15-07-14
Authorised for Construction				Reason Description	Authorised by	Approval Date

This plan/document forms part of the  
Approved Construction Certificate  
**2014/01708**  
Issued by DM Certifiers P/L SPP 1899

**CONSULT AUSTRALIA**  
P.O. BOX 8108  
SULLY ROAD, WA, 6008  
Phone 08 9221 0159  
Email paul@cpa.com.au

**GEOFF NINNES, FONG & PARTNERS**  
ACN No. 007 186 288  
ASN No. 38 001 842 299  
Civil Structural Stormwater Aquatics  
G.I. NINNES, MICAEL FONG, RFE 5375  
B.B. FONG, BENJAMIN CHENG, NPER

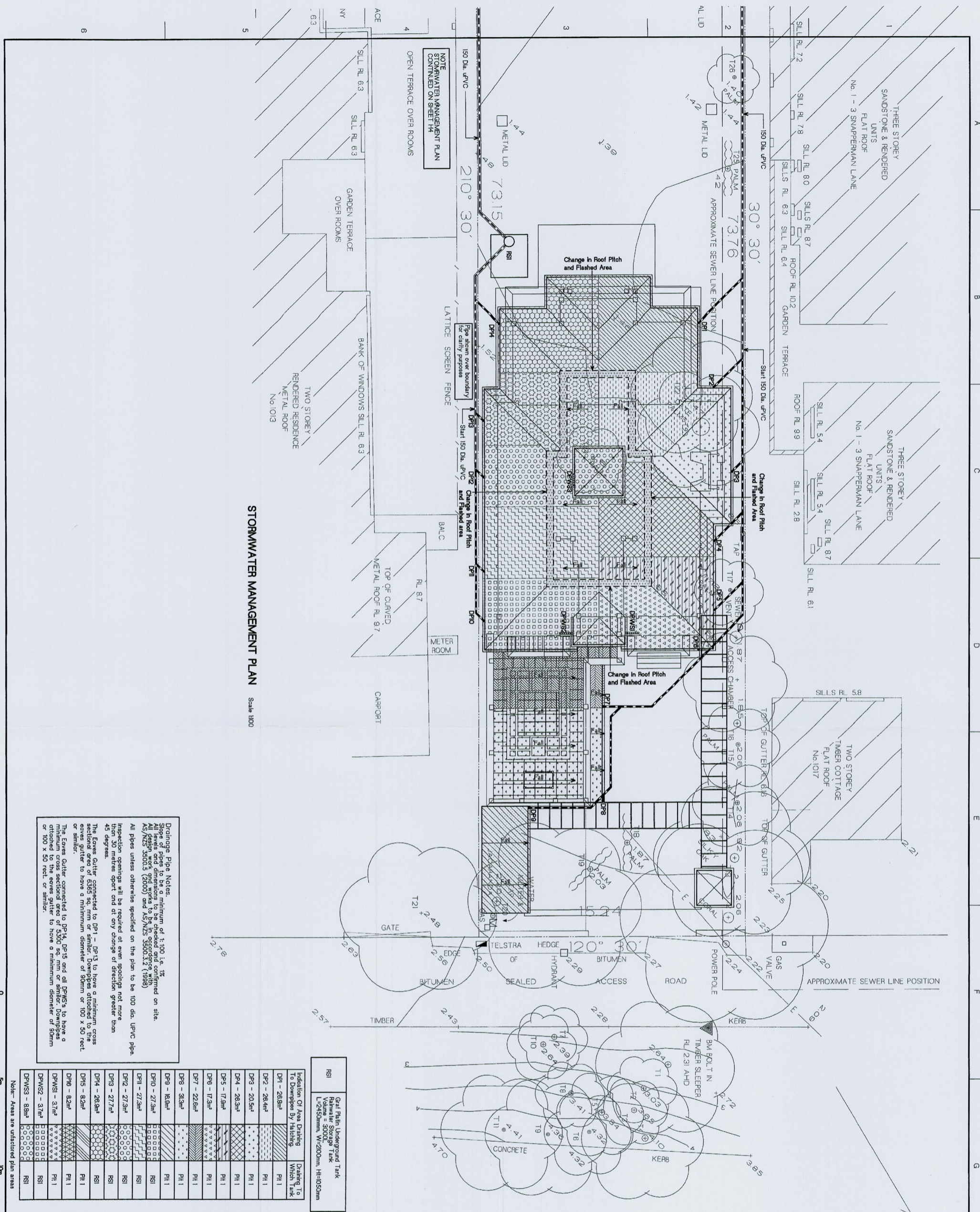
**BOYD PALM BEACH HOUSE**  
1015 BARRENUOY ROAD, PALM BEACH  
FIRST FLOOR SECTIONS

Scale @ A1	1:100, 20	Date	JUNE 2014	Job No.	SN7865	Draw No.	S3
Drawn	LS	Checked	B.F.	Approved	MICHAEL		









**STORMWATER MANAGEMENT PLAN** Scale 1:100

**Drainage Pipe Notes:**  
 Slope of pipes to be a minimum of 1:100 i.e. 1%.  
 All levels and dimensions to be checked and confirmed on site.  
 AS/NZS 3500.5 (2000) and AS/NZS 3500.3 (1989).  
 All pipes unless otherwise specified on the plan to be 100 dia. UPVC pipe.  
 Inspection openings will be required at even spacings not more than 30 metres apart and at any change of direction greater than 45 degrees.  
 The Eaves Gutter connected to DP1 - DP13 to have a minimum cross sectional area of 6355 sq. mm or similar. Downpipes attached to the gutter to have a minimum diameter of 50mm or 100 x 50 feet.  
 The Eaves Gutter connected to DP14, DP15 and all DP16's to have a minimum diameter of 5300 sq. mm or similar.  
 The Eaves Gutter connected to DP17 to have a minimum diameter of 50mm or 100 x 50 feet, or similar.

Indication Of Area Draining To Downpipes By Hatching	Draining To Which Tank
DP1 - 28.8m <sup>2</sup>	PH 1
DP2 - 28.4m <sup>2</sup>	PH 1
DP3 - 20.5m <sup>2</sup>	PH 1
DP4 - 28.3m <sup>2</sup>	PH 1
DP5 - 17.9m <sup>2</sup>	PH 1
DP6 - 17.3m <sup>2</sup>	PH 1
DP7 - 22.6m <sup>2</sup>	PH 1
DP8 - 31.0m <sup>2</sup>	PH 1
DP9 - 16.8m <sup>2</sup>	PH 1
DP10 - 27.9m <sup>2</sup>	PH 1
DP11 - 27.3m <sup>2</sup>	PH 1
DP12 - 27.3m <sup>2</sup>	PH 1
DP13 - 27.7m <sup>2</sup>	PH 1
DP14 - 28.9m <sup>2</sup>	PH 1
DP15 - 8.2m <sup>2</sup>	PH 1
DP16 - 8.2m <sup>2</sup>	PH 1
DP17 - 3.7m <sup>2</sup>	PH 1
DP18 - 8.9m <sup>2</sup>	PH 1

RS1	4m <sup>3</sup> Rainwater Storage Tank
RS1	Volume = 3000L L=2450mm, W=2000mm, H=1050mm

**PLAN OR DOCUMENT CERTIFICATION**

I am a qualified CIVIL, GEOTECHNICAL & STRUCTURAL ENGINEER. I hold the following qualifications or licences No. MEng38.

Further I am appropriately qualified to certify the component of the project. I hereby state that these plans or details comply with the conditions of development consent, the provisions of the Building Code of Australia, AS 3700, AS 4100 & AS 1813.

AS 3700, AS 4100 & AS 1813  
 AS 1702, AS 1702.2, AS 1894, AS 2870, AS 3500, AS 3800,  
 AS 3700, AS 4100 & AS 1813  
 AS 1702, AS 1702.2, AS 1894, AS 2870, AS 3500, AS 3800,  
 AS 3700, AS 4100 & AS 1813

Name: David D. Hodgson Date: 11/2/2015 Signature: [Signature]

**STORMWATER MANAGEMENT PLAN**  
**PROPOSED NEW RESIDENCE**  
**1015 BARRENLUETZ ROAD**  
**PALM BEACH**

**MRI & MRS BOYD**

Our design and drawings are based upon and derived from information provided by the client. We do not warrant the accuracy of the information provided by the client. We do not warrant the accuracy of the information provided by the client. We do not warrant the accuracy of the information provided by the client.

**JACK HODGSON CONSULTANTS PTY. LIMITED**  
 1015 Barrenluetz Road, Palm Beach, QLD 4215  
 Telephone: (07) 5579 6133, Fax: (07) 5579 6222  
 Email: jack.hodgson@hodgsonconsultants.com.au, A/CN 028 405 08

Design Check: GH Drawing Check: GH  
 Date: **11 FEBRUARY 2015**

**27248-H3**

Approved by DM Certifiers P/L BPB 1869  
 2014/01708  
 This plan/document forms part of the  
 Approved Construction Certificate









# BASIX Certificate

Building Sustainability Index [www.basix.nsw.gov.au](http://www.basix.nsw.gov.au)

## Single Dwelling

Certificate number: 489529S

This certificate confirms that the proposed development will meet the NSW government's requirements for sustainability, if it is built in accordance with the commitments set out below. Terms used in this certificate, or in the commitments, have the meaning given by the document entitled "BASIX Definitions" dated 29/06/2009 published by the Department of Planning. This document is available at [www.basix.nsw.gov.au](http://www.basix.nsw.gov.au)

Director-General

Date of issue: Wednesday, 26 June 2013

To be valid, this certificate must be lodged within 3 months of the date of issue.



This plan/document forms part of the  
Approved Construction Certificate

# 2014/01708

Issued by DM Certifiers P/L BPP 1869

### Project Summary

Project name	1015 Barranjoey Rd, Palm Beach
Street address	1015 Barranjoey Road Palm Beach 2108
Local Government Area	Pittwater Council
Plan type and plan number	deposited 14682
Lot no.	54
Section no.	-
Project type	separate dwelling house
No. of bedrooms	5
<b>Project score</b>	<b>4</b>
Water	✓ 40 Target 40
Thermal Comfort	✓ Pass Target Pass
Energy	✓ 40 Target 40

### Certificate Prepared by

Name / Company Name: Taylor Smith Consulting

ABN (if applicable): 71860738382



<b>Project address</b>	
Project name	1015 Barrenjoey Rd, Palm Beach
Street address	1015 Barrenjoey Road Palm Beach 2108
Local Government Area	Pittwater Council
Plan type and plan number	Deposited Plan 14682
Lot no.	54
Section no.	-
<b>Project type</b>	
Project type	separate dwelling house
No. of bedrooms	5
<b>Site details</b>	
Site area (m <sup>2</sup> )	1119
Roof area (m <sup>2</sup> )	242
Conditioned floor area (m <sup>2</sup> )	339
Unconditioned floor area (m <sup>2</sup> )	15
Total area of garden and lawn (m <sup>2</sup> )	707

<b>Assessor details and thermal loads</b>		
Assessor number	BDAV/12/1472	
Certificate number	14720075	
Climate zone	56	
Area adjusted cooling load (MJ/m <sup>2</sup> .year)	48	
Area adjusted heating load (MJ/m <sup>2</sup> .year)	54	
<b>Other</b>		
none	n/a	
<b>Project score</b>		
Water	40	Target 40
Thermal Comfort	Pass	Target Pass
Energy	40	Target 40



## Schedule of BASIX commitments

The commitments set out below regulate how the proposed development is to be carried out. It is a condition of any development consent granted, or complying development certificate issued, for the proposed development, that BASIX commitments be complied with.

Water Commitments	Show on DA plans	Show on CC/CDC plans & specs	Certifier check
<b>Fixtures</b>			
The applicant must install showerheads with a minimum rating of 3 star (> 4.5 but ≤ 6 L/min) in all showers in the development.		✓	✓
The applicant must install a toilet flushing system with a minimum rating of 4 star in each toilet in the development.		✓	✓
The applicant must install taps with a minimum rating of 4 star in the kitchen in the development.		✓	
The applicant must install basin taps with a minimum rating of 4 star in each bathroom in the development.		✓	
<b>Alternative water</b>			
Rainwater tank			
The applicant must install a rainwater tank of at least 3000 litres on the site. This rainwater tank must meet, and be installed in accordance with, the requirements of all applicable regulatory authorities.	✓	✓	✓
The applicant must configure the rainwater tank to collect rain runoff from at least 121 square metres of the roof area of the development (excluding the area of the roof which drains to any stormwater tank or private dam).		✓	✓
The applicant must connect the rainwater tank to:			
• all toilets in the development		✓	✓
• the cold water tap that supplies each clothes washer in the development		✓	✓
• at least one outdoor tap in the development (Note: NSW Health does not recommend that rainwater be used for human consumption in areas with potable water supply.)		✓	✓



### Thermal Comfort Commitments

#### Simulation Method

The applicant must attach the certificate referred to under "Assessor Details" on the front page of this BASIX certificate (the "Assessor Certificate") to the development application and construction certificate application for the proposed development (or, if the applicant is applying for a complying development certificate for the proposed development, to that application). The applicant must also attach the Assessor Certificate to the application for an occupation certificate for the proposed development.

The Assessor Certificate must have been issued by an Accredited Assessor in accordance with the Thermal Comfort Protocol. The details of the proposed development on the Assessor Certificate must be consistent with the details shown in this BASIX certificate, including the Cooling and Heating loads shown on the front page of this certificate.

The applicant must show on the plans accompanying the development application for the proposed development, all matters which the Assessor Certificate requires to be shown on those plans. Those plans must bear a stamp of endorsement from the Accredited Assessor to certify that this is the case. The applicant must show on the plans accompanying the application for a construction certificate (or complying development certificate, if applicable), all thermal performance specifications set out in the Assessor Certificate, and all aspects of the proposed development which were used to calculate those specifications.

The applicant must construct the development in accordance with all thermal performance specifications set out in the Assessor Certificate, and in accordance with those aspects of the development application or application for a complying development certificate which were used to calculate those specifications.

The applicant must construct the floors and walls of the dwelling in accordance with the specifications listed in the table below.

Element	Area	Show on DA plans	Show on CC/CDC plans & specs	Certificate check
Floors and walls construction				
floor - suspended floor/enclosed subfloor	All or part of floor area square metres	✓	✓	✓



Energy Commitments		Show on DA plans	Show on CC/CDC plans & specs	Certifier check
<b>Hot water</b>				
The applicant must install the following hot water system in the development, or a system with a higher energy rating: gas instantaneous with a performance of 5.5 stars.		✓	✓	✓
<b>Cooling system</b>				
The applicant must install the following cooling system, or a system with a higher energy rating, in at least 1 living area: 1-phase airconditioning; Energy rating: 4 Star (new rating)			✓	✓
The applicant must install the following cooling system, or a system with a higher energy rating, in at least 1 bedroom: ceiling fans; Energy rating: n/a			✓	✓
<b>Heating system</b>				
The applicant must install the following heating system, or a system with a higher energy rating, in at least 1 living area: wood heater; Energy rating: n/a			✓	✓
The bedrooms must not incorporate any heating system, or any ducting which is designed to accommodate a heating system.			✓	✓
<b>Ventilation</b>				
The applicant must install the following exhaust systems in the development:				
At least 1 Bathroom: individual fan, not ducted; Operation control: manual switch on/off			✓	✓
Kitchen: individual fan, ducted to façade or roof; Operation control: manual switch on/off			✓	✓
Laundry: individual fan, not ducted; Operation control: manual switch on/off			✓	✓
<b>Artificial lighting</b>				
The applicant must ensure that the "primary type of artificial lighting" is fluorescent or light emitting diode (LED) lighting in each of the following rooms, and where the word "dedicated" appears, the fittings for those lights must only be capable of accepting fluorescent or light emitting diode (LED) lamps:				
• at least 2 of the living / dining rooms;			✓	✓
• the kitchen;			✓	✓
<b>Natural lighting</b>				



**Energy Commitments**

	Show on DA plans	Show on CC/CDC plans & specs	Certifier check
The applicant must install a window and/or skylight in the kitchen of the dwelling for natural lighting.	✓	✓	✓
The applicant must install a window and/or skylight in 7 bathroom(s)/kettle(s) in the development for natural lighting.	✓	✓	✓
<b>Other</b>			
The applicant must install a gas cooktop & electric oven in the kitchen of the dwelling.		✓	
The applicant must construct each refrigerator space in the development so that it is "well ventilated", as defined in the BASIX definitions.		✓	
The applicant must install a fixed outdoor clothes drying line as part of the development.		✓	
The applicant must install a fixed indoor or sheltered clothes drying line as part of the development.		✓	



**Legend**

In these commitments, "applicant" means the person carrying out the development.

Commitments identified with a ✓ in the "Show on DA plans" column must be shown on the plans accompanying the development application for the proposed development (if a development application is to be lodged for the proposed development).

Commitments identified with a ✓ in the "Show on CC/CDC plans and specs" column must be shown in the plans and specifications accompanying the application for a construction certificate / complying development certificate for the proposed development.

Commitments identified with a ✓ in the "Certifier check" column must be certified by a certifying authority as having been fulfilled, before a final occupation certificate (either interim or final) for the development may be issued.



**GEOTECHNICAL RISK MANAGEMENT POLICY FOR PITTWATER**  
**FORM NO. 2 – PART B – To be submitted with detailed design for Construction Certificate**

**PART B Declaration made by Geotechnical Engineer or Engineering Geologist and/or Coastal Engineer (where applicable) in relation to the incorporation of the Geotechnical issues into the project design**

I, Ray Blinman on behalf of Douglas Partners (DP)  
 (insert name) (trading or company name)

on this the 23/1/15  
 (date)

certify that I am a Geotechnical Engineer ~~or Engineering Geologist and/or Coastal Engineer~~ as defined by the Geotechnical Risk Management Policy for Pittwater - 2099 and I am authorised by the above organisation/company to issue this document and to certify that the ~~organisation~~/company has a current professional indemnity policy of at least \$2million. I also certify that I have reviewed the design plans and structural design plans for the Construction Certificate Stage and that I am satisfied that: DP

Please mark appropriate box

- the structural design meets the recommendations as set out in the Geotechnical Report or any revision thereto.
- the structural design has considered the requirements set out in the Geotechnical Report for Excavation and Landfill both for the excavation/construction phase and the final installation in accordance with Clause 3.2 (b)(iv) of the Geotechnical Risk Management Policy.

Geotechnical Report Details:

Report Title:	Report on Geotechnical Investigation 1015 Barrenjoey Road Palm Beach Project 45391A		
Report Date:	13/3/2008	March 2008	
Author:	F. MacGregor	Company/Organisation	Douglas partners

Documentation which relates to or is relied upon in report preparation:

Architect. Plans - Walter Borda Design 1001, 1200, 1201, 1500, 1600, 1601 (Rev B)
Structural Plans - Geoff Minnes Fong's Plans S/N 7865; S2 to S4/A.

I am also aware that Pittwater Council relies on the processes covered by the Geotechnical Risk Management Policy, including this certification as the basis for ensuring that the geotechnical risk management aspects of the proposed development have been adequately addressed to achieve an "Acceptable Risk Management" level for the life of the structure taken as at least 100 years unless otherwise stated and justified.

Signature ..... [Signature]  
 Name ..... Ray Blinman  
 Chartered Professional Status ..... CPEng  
 Membership No. .... 817088  
 Company ..... DOUGLAS PARTNERS P/L

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 Approved Construction Certificate

**2014/01708**

Issued by DM Certifiers P/L BPB 1869





G E O F F  
N I N N E S  
F O N G  
P A R T N E R S  
P T Y L T D  
A B N 5 6 0 0 1 8 4 9 2 8 9



Ref No: 19017  
Job No: SN7865

3 February 2015

Jonathon Boyd  
C/- Walter Barda Design  
Lvl 2, 13-15 Wentworth Ave  
SYDNEY NSW 2000

Attn: Matthew Mariani

Dear Sir,

Re: **NEW RESIDENCE AT 1015 BARRENJOEY RD PALM BEACH**

We advise that the structure shown on drawings SN7865 – S0, S1, S2, S3 & S4 has been designed to the following Australian standards:

- **AS2870 Residential footings and slabs**
- **AS3600 Concrete structures**
- **AS4100 Steel structures**
- **AS1170 Part 1 Permanent, Imposed and Other Actions**
- **AS1170 Part 2 Wind Actions**
- **AS1720.1 Timber structures – Design methods**

Yours faithfully,  
FOR & ON BEHALF OF  
GEOFF NINNES FONG & PARTNERS P/L

**HADY HENG MIE Aust NPER 2155188**  
**Structural Engineer**

This plan/document forms part of the  
Approved Construction Certificate

2014/01708

Issued by DM Certifiers P/L RPB 1809

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• G. J. NINNES B.E. (Civil) N.Z., M.Eng.Sc., Dip. Admin., Dip.Env.Stud., M.I.E.Aust. R.P.E.Q. • B. FONG B.E., M.I.E.Aust., C.P. Eng., NPER •



**Design & Impact**  
Traffic Control Plan  
Contract No. 225515584



**CRAIG REEVES**  
Egnyr Date: 28/10/2015



**Select/Modify Traffic Control Plans**  
Contract No. 225515584



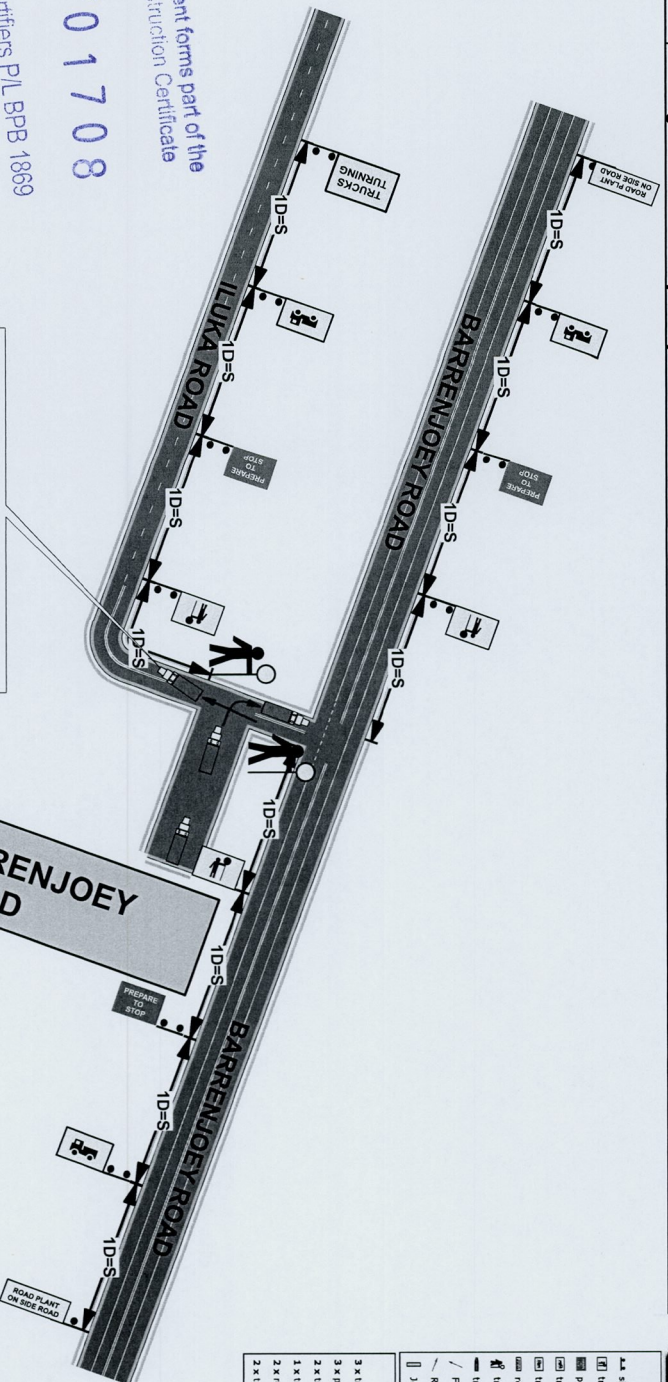
**CRAIG REEVES**  
Egnyr Date: 01/11/2016



**Date:** 18/02/2015 **Author:** Craig Reeves **Project:** 1015 Barrenjoey Road, Palm Beach  
**Client:** JB Commercial **Contact:** Jonathon Boyd **Phone:** 0416175775

**Comments:**

This plan was designed by Craig Reeves of Sydney Traffic Control in accordance with Australian Standards and the RMS's Traffic Control on Worksite Handbook Version 4.0. The plan is designed for the safe delivery of materials to number 1015 Barrenjoey Road, Palm Beach. Certified Traffic Controllers will be on site to implement and monitor this TCP. Sydney Traffic Control holds no responsibility for this TCP unless Sydney Traffic Control employees are used to implement and monitor this TCP. All traffic control plans are copyright/property of Sydney Traffic Control and are not transferable unless authorized by Sydney Traffic Control. Any question please contact Craig Reeves of Sydney Traffic Control on 80681844 or 0488793639.



**Legend**

- ▲ sign single
- ☐ traffic controller ahead symbolic 4x (yellow) T1-200-2\*
- ☐ traffic controller ahead symbolic 4x (yellow) T1-200-2\*
- ☐ prepare to stop T1-18
- ☐ trucks entering symbolic (W) (R) T2-25(R)
- ☐ trucks entering symbolic (W) (L) T2-25(L)
- ☐ road plant on side road T1-27
- ☐ traffic controller
- ☐ tray truck
- ☐ Forward Direction
- ☐ Reversing Direction
- ☐ Job Site

**Manifest**

- 3 x traffic controller ahead symbolic 4x (yellow) T1-200-2\*
- 3 x prepare to stop T1-18
- 2 x trucks entering symbolic (W) (R) T2-25(R)
- 1 x trucks entering symbolic (W) (L) T2-25(L)
- 2 x road plant on side road T1-27
- 2 x traffic controller

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**PLAN NOT TO SCALE**

All advanced warning signs to be spaced as per RMS Roadwork on Worksite Handbook  
1 x Distance = Speed.