

11 October 2013

General Manager
Pittwater Council
PO Box 882
MONA VALE NSW 1660

Dear Sir/Madam,

**Development Application No. N0216/13
41 Attunga Road, Newport**

For Council's information, please find enclosed Construction Certificate No. 2013/5150 issued for deck extension at the above address, accompanied by:

- Copy of Construction Certificate application form
- Notice of Commencement of Work and Appointment of Principal Certifying Authority
- Home Warranty Insurance Certificate
- Cheque for \$36.00 being the prescribed fee to receive the above certificate.

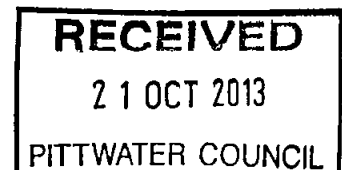
NB: Please forward receipt for the above fee to **Insight Building Certifiers Pty Ltd, PO Box 326, Mona Vale 1660.**

Yours faithfully



**Tom Bowden
Insight Building Certifiers Pty Ltd**

RN: 350452.



Construction Certificate Determination

issued under the Environmental
Planning and Assessment Act 1979
Section 109C (1) (b), 81A (2) and 81A (4)

Certificate No. 2013/5150

Council	Pittwater
Determination Date of issue	Approved 11 October 2013
Subject land Address Lot No, DP No.	41 Attunga Road, Newport Lot 105 DP 752046
Applicant Name Address Contact No.	Mr Lawrence Puddy 41 Attunga Road, Newport NSW 2106 9973 3472 / 0418 921 087
Owner Name Address Contact No.	Mrs Rosemary Puddy 41 Attunga Road, Newport NSW 2106 9973 3472
Description of Development Type of Work	Deck Extension
Builder or Owner/Builder Name Contractor Licence No/Permit	Northern Beaches Constructions 106302C
Value of Work Building	\$11,900.00
Attachments	
• Copy of completed Construction Certificate Application Form	

Plans & Specifications certified

The development is to be carried out in compliance with the following plans and documentation listed below and endorsed with *Insight Building Certifiers* stamp.

- Architectural Plans & Construction Specification, including Sydney Water approval dated 3 October 2013, reference no. 1315, drawing no's. A-01, A-02, A-03 (all issue A), prepared by Gartner Trovato dated 8 July 2013
- Structural Details reference no. 130812, drawing no's. S1.00, S2.00 & S2.01, prepared & endorsed by Barrenjoey Consulting Engineers Pty Ltd dated August 2013
- Completed Form 2 (Parts A & B) of Pittwater Council Geotechnical Risk Management Policy, endorsed by Barrenjoey Consulting Engineers Pty Ltd dated 30 September 2013 & Jack Hodgson Consultants Pty Ltd dated 30 September 2013, respectively

Certificate

I hereby certify that the above Plans, documents or Certificates, satisfy:

- The relevant provisions of the Building Code of Australia
- The relevant conditions of this Development Consent

and that work completed in accordance with the documentation accompanying the application for this Certificate (and any modifications as verified by me and shown on that documentation) will comply with the requirements of the Environmental Planning & Assessment Regulation referred to in Section 81A(5) of the Environmental Planning & Assessment Act, 1979.

Signed



Date of endorsement
Certificate No.

11 001 2013
2013/5150

Certifying Authority

Name of Accredited Certifier
Accreditation No.
Accreditation Authority
Contact No.
Address

Tom Bowden
BPB0042
Building Professionals Board
(02) 9999 0003
13/90 Mona Vale Road, Mona Vale NSW 2103

Development Consent

Development Application No.
Date of Determination

N0216/13
16 September 2013

BCA Classification

10b

20 04 OCT 2013

Construction Certificate

BY: Modified Construction Certificate

APPLICATION FOR A CONSTRUCTION CERTIFICATE

Environmental Planning and Assessment Act 1979 & Environmental Planning and Assessment Regulation 2000

Description of Building Work

DECK EXTENSION

Estimated cost of work

\$ 11,900.00

BCA Classification(s)

10b

Development Consent Reference no.

N0216/13

Date of Issue

16 SEPT 2013

Modified Consent Reference no. (if applicable)

-

Date of Issue (if applicable)

-

Property Address

Unit/Street no.

41

Street name

ATTUNGA ROAD

Suburb

NEWPORT

Post code

2106

Lot no.

105

DP no.

752046

Accompanying Documents

- i. Appropriate Architectural Plans and Specifications
- ii. All information required by Part 3 of Schedule 1 Forms of the Regulation (see over)

I/We, the owner/s of the abovementioned property, hereby make application to Tom Bowden/Heath McNab of Insight Building Certifiers Pty Ltd ('Insight') for a Construction Certificate for the building work described above and, in doing so, I/we also declare that the documents provided and asserted by me as a copy of a development consent and incorporated plans are a true copy of same as issued by the relevant consent authority or the Land and Environment Court.

Owner 1 Name: LAWRENCE PLIDDY

Owner 2 Name: ROSEMARY PLIDDY

Owner's Signature: *[Signature]*

Owner's Signature: *[Signature]*

Date: 30 8 13

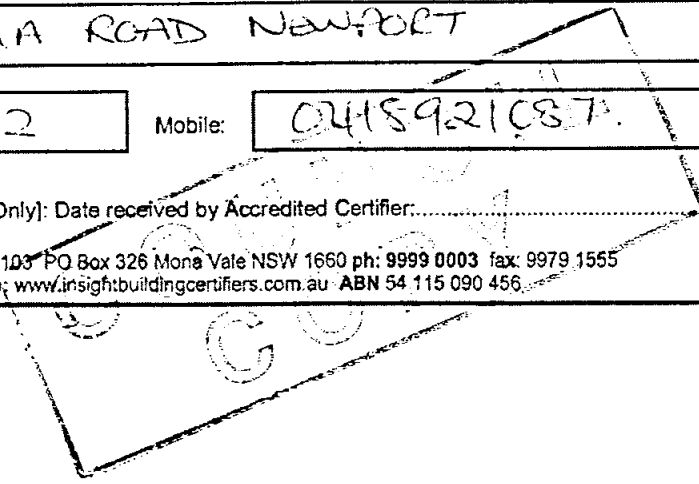
Date: 30 8 13

Owner's Address: 41 ATTUNGA ROAD NEWPORT

Daytime Telephone: 02 997 33472

Mobile: 0415 921 087

[Office Use Only]: Data received by Accredited Certifier:



Environmental Planning & Assessment Regulations 2000

Schedule 1 – Part 3(6) – Documents to accompany application for Construction Certificates

- (1) An application for a construction certificate must be accompanied by the following documents:
 - (a) if the development involves building work (including work in relation to a dwelling-house or a building or structure that is ancillary to a dwelling-house):
 - (i) a detailed description of the development, and
 - (ii) appropriate building work plans and specifications,
 - (b) if the development involves building work (other than work in relation to a dwelling-house or a building or structure that is ancillary to a dwelling-house or work that relates only to fire link conversion):
 - (i) a list of any existing fire safety measures provided in relation to the land or any existing building on the land, and
 - (ii) a list of the proposed fire safety measures to be provided in relation to the land and any building on the land as a consequence of the building work,
 - (c) if the development involves subdivision work, appropriate subdivision work plans and specifications,
 - (d) in the case of development to which clause 6A applies, such other documents as any BASIX certificate for the development requires to accompany the application.
 - (2) A detailed description of the development referred to in subclause (1) (a) (i) must indicate the following matters:
 - (a) for each proposed new building:
 - (i) the number of storeys (including underground storeys) in the building,
 - (ii) the gross floor area of the building (in square metres),
 - (iii) the gross site area of the land on which the building is to be erected (in square metres),
 - (b) for each proposed new residential building:
 - (i) the number of existing dwellings on the land on which the new building is to be erected,
 - (ii) the number of those existing dwellings that are to be demolished in connection with the erection of the new building,
 - (iii) the number of dwellings to be included in the new building,
 - (iv) whether the new building is to be attached to any existing building,
 - (v) whether the new building is to be attached to any other new building,
 - (vi) whether the land contains a dual occupancy,
 - (vii) the materials to be used in the construction of the new building (using the abbreviations set out in clause 7 of this Schedule).
 - (3) Appropriate building work plans and specifications referred to in subclause (1) (a) (ii) include the following:
 - (a) detailed plans, drawn to a suitable scale and consisting of a block plan and a general plan, that show:
 - (i) a plan of each floor section, and
 - (ii) a plan of each elevation of the building, and
 - (iii) the levels of the lowest floor and of any yard or unbuilt on area belonging to that floor and the levels of the adjacent ground, and
 - (iv) the height, design, construction and provision for fire safety and fire resistance (if any),
 - (b) Specifications for the development:
 - (i) that describe the construction and materials of which the building is to be built and the method of drainage, sewerage and water supply, and
 - (ii) that state whether the materials to be used are new or second-hand and (in the case of second-hand materials) give particulars of the materials to be used,
 - (c) a statement as to how the performance requirements of the *Building Code of Australia* are to be complied with (if an alternative solution, to meet the performance requirements, is to be used),
 - (d) a description of any accredited building product or system sought to be relied on for the purposes of section 79C (4) of the Act,
 - (e) copies of any compliance certificate to be relied on,
 - (f) if the development involves building work to alter, expand or rebuild an existing building, a scaled plan of the existing building,
 - (g) in the case of development to which clause 6A applies, such other matters as any BASIX certificate for the development requires to be included in the plans and specifications.
 - (3A) An application for a construction certificate that relates only to fire link conversion need only be accompanied by a document that describes the design and construction, and mode of operation, of the new fire alarm communication link.
 - (4) Appropriate subdivision work plans and specifications referred to in subclause (1) (c) include the following:
 - (a) details of the existing and proposed subdivision pattern (including the number of lots and the location of roads),
 - (b) details as to which public authorities have been consulted with as to the provision of utility services to the land concerned,
 - (c) details engineering plans as to the following matters:
 - (i) earthworks,
 - (ii) roadworks,
 - (iii) road pavement,
 - (iv) road furnishings,
 - (v) stormwater drainage,
 - (vi) water supply works,
 - (vii) sewerage works,
 - (viii) landscaping works,
 - (ix) erosion control works,
 - (d) copies of any compliance certificates to be relied on.
- 6A BASIX certificate required for certain development**
- (1) This clause applies to:
 - (a) BASIX affected development, and
 - (b) BASIX optional development in relation to which a person made a development application that has been accompanied by a BASIX certificate or BASIX certificates (despite there being no obligation under clause 2A for it to be so accompanied).
 - (2) In addition to the documents required by clause 6, an application for a construction certificate for any development to which this clause applies must also be accompanied by a BASIX certificate or BASIX certificates for the development, being either the BASIX certificate applicable to the development when the relevant development consent was granted or some other BASIX certificate or BASIX certificates that has or have been issued no earlier than 3 months before the date on which the application is made.
 - (3) If the proposed development involves the alteration, enlargement or extension of a BASIX affected building that contains more than one dwelling, a separate BASIX certificate is required for each dwelling concerned.

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

Development Application for **Puddy Family**
Address of site **41 Attunga Rd Newport**

PART A: Declaration made by Structural or Civil Engineer in relation to the incorporation of the Geotechnical issues into the project design

I, **Lucas Molloy** on behalf of **Barrenjoey Consulting Engineers** pty ltd
(insert name) (trading or company name)

on this the **30th Sept 2013**
(date)

certify that I am a Structural or Civil Engineer as defined by the Geotechnical Risk Management Policy for Pittwater - 2009. 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 prepared the below listed structural documents in accordance with the recommendations given in the Geotechnical Report for the above development and that

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: **41 Attunga Rd Newport Minor Works**
Report Date: **19th July 2013**
Author: **Peter Thompson**
Author's Company/Organisation: **Jack Hodgson Consultants pty ltd**

Structural Documents list:

**Plans by Barrenjoey Consulting Engineers pty ltd Job No 130806
Drawing Nos S1.00, S2.00, and S2.01**

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

Name
Chartered Professional Status
Membership No.
Company


Lucas Molloy
CPEng / NPER
788184
Barrenjoey Consulting Engineers pty ltd

COPY

This plan / document
forms part of
Construction Certificate
no. 2013 / 5150

**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, Peter Thompson on behalf of Jack Hodgson Consultants Pty Ltd
(insert name) (trading or company name)

on this the 30TH SEPTEMBER, 2013
(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 – 2009 and I am authorised by the above organization/company to issue this document and to certify that the organization/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 in accordance for the Construction Certificate Stage and that I am satisfied that:

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: MINOR WORKS FOR 41 ATTUNGA ROAD, NEWPORT – MO 28960
Report Date: 19 TH JULY, 2013
Author: BEN WHITE

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

ARCHITECTURAL PLANS PREPARED BY GARTNER TROVATO PROJECT 1315 DWG NO: A-01 TO 03 DATED JULY, 2013
STRUCTURAL PLANS PREPARED BY BARRENJOEY CONSULTING ENGINEERS JOB NO 130806 DWG NO: S1.00, S2.00 & S2.01 DATED AUGUST 2013

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.

Peter Thompson (name) *Peter Thompson* (signature)

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 in the Report and that reasonable and practical measures have been identified to remove foreseeable risk

Signature *Peter Thompson*
Name Peter Thompson
Chartered Professional Status MIE Aust CPEng
Membership No. 146800
Company Jack Hodgson Consultants Pty Ltd

This plan / document
Council Policy – No. 178
Construction Certificate
no. 2013 / 5150

GENERAL NOTES

GENERAL

- G1 - These drawings are to be read in conjunction with all architectural and other consultants drawings and specifications. Any discrepancies are to be referred to all parties and rectified before proceeding with the works.
- G2 - Dimensions shall not be obtained by scaling from these drawings.
- G3 - During construction the structure shall be kept in a stable condition and no part shall be over stressed.
- G4 - All materials and workmanship are to be in accordance with the current Australian Standards, OH&S requirements, and the by-laws and ordinances of any relevant statutory authority.

FOUNDATIONS

- F1 - The foundation material is to be WEATHERED ROCK 1000KPa bearing capacity.
- F2 - The foundation material is to be Inspected, verified and approved by a Geotechnical Consultant as being in accordance with the above and that it is sound and consistent with minimal possibility of differential settlement across the development.
- F3 - Should variable foundation material be encountered the engineer is to be contacted and it is likely all foundations are to be pierced to similar material of the greatest bearing capacity and that additional detailing of the foundation reinforcement will be required.
- F4 - Any excavation works are to include measures to ensure the temporary and long term stability of any existing structure within its vicinity.
- F5 - All foundations shall be a minimum 300mm into the approved material unless otherwise noted.
- F6 - Foundation depth dimensions are a minimum only and final depth will be dependent on the adequacy of the bearing material.
- F7 - All organic matter and top soil shall be removed from the underside of all slabs and foundations.
- F8 - Any soft or questionable excavated areas are to be brought to the attention of the Geotechnical Consultant and may require controlled filling.
- F9 - Any filling shall be to the approval of the Geotechnical Consultant and will generally be granular material compacted in not more than 150mm layers to a minimum dry density ratio of 98%.

CONCRETE

- C1 - All workmanship and materials shall be in accordance with AS3600.
- C2 - Concrete quality shall be verified by tests.
- C3 - All concrete shall have a slump of 80mm and maximum aggregate size of 20mm.
- C4 - Concrete strength and cover shall be as detailed on the plans.
- C5 - Size of concrete members do not include thickness of applied finishes.
- C6 - Beam depths are written first and include slab thickness if any.
- C7 - No penetrations are to be made to the concrete members without the written approval of the engineer.
- C8 - No water is to be added to the concrete prior to placement.
- C9 - All construction joints shall be located to the approval of the engineer.
- C10 - Fire rating requirements and adequacy is to be reviewed and specified by others.
- C11 - All concrete members are to be cured by keeping the surfaces continuously wet for a period of 3 days followed by the prevention of loss of moisture for a further 7 days.
- C12 - All concrete elements shall be compacted to form a dense homogenous mass using mechanical vibrators.

- C13 - All formwork shall be installed and stripped in accordance with AS3610.
- C14 - All formwork is to be free of debris prior to pouring of concrete.
- C15 - Exposed finished concrete surfaces (such as polished floors etc) will require additional reinforcement (SL 102 Top min) plus curing / shrinkage controlling additives as per the concrete suppliers recommendations.
- C16 - Exposed finished concrete surfaces (such as polished floors etc) will be susceptible to cracking.

REINFORCEMENT

- R1 - All reinforcement shall be Grade D500.
- R2 - Top reinforcement is to be continuous over supporting elements and lapped between supporting elements only.
- R3 - Bottom reinforcement is to be continuous between supporting elements and lapped at supporting elements only.
- R4 - Reinforcement is represented diagrammatically only and is not necessarily shown in its true projection.
- R5 - Welding of reinforcement is not permitted.
- R6 - All reinforcement shall be supported on bar chairs at max 750mm spacing.
- R7 - Reinforcement shall be tied at alternate intersections.
- R8 - Reinforcement bars are to lap a minimum length equal to 40 times the bar diameter (ie min 480mm for N12 bars, 640mm for N16 bars).
- R9 - Reinforcement fabric is to lap 1 complete square plus 25mm.

MASONRY

- M1 - All workmanship and materials shall be in accordance with AS3700.
- M2 - An approved slip joint material is to be placed over all load bearing masonry supporting a concrete slab and laid on smooth brick work or a trowed mortar finish, this material may constitute two layers of greased metal.
- M3 - Masonry shall be constructed on suspended concrete structures only after all propping has been removed and the concrete has achieved its specified strength.
- M4 - Control joints are to be placed in all walls at a maximum of 8m centres and between new and existing structures or closer as deemed necessary by the engineer. The joints are to be 10mm wide and sealed with an approved flexible sealant, with ties at 600mm centres vertical.
- M5 - Concrete blocks shall have a minimum compressive strength of 15 MPa.
- M6 - Core filling shall be 20 MPa concrete with 10mm aggregate, 230mm slump and compacted adequately.
- M7 - Concrete blocks used in retaining wall construction are to be Double Web H blocks.
- M8 - Maximum pour height for unrestrained blockwork is 1.8m.
- M9 - All masonry components are to be tied at not more than 600mm centres to adjacent steel or concrete columns.

STEEL

- S1 - All workmanship and materials shall be in accordance with AS4100.
- S2 - Hot rolled plates shall comply with AS 3678.
- S3 - Hot rolled sections shall comply with AS3679.
- S4 - Cold formed sections shall comply with AS4600.
- S5 - Welded and seamless hollow sections shall comply with AS1163.
- S6 - Unless noted otherwise all welds shall be 6mm continuous fillet from E4xx electrodes, unless noted otherwise.
- S7 - Unless noted otherwise all bolts shall be M16 high strength structural bolts grade 8.8, snug tightened, uno.
- S8 - Unless noted otherwise all connections shall be 3M16 bolts, 10mm plate and 6mm continuous weld.
- S9 - All structural steel work shall have the following level of corrosion protection

equivalent) All coatings/finishes shall be applied in accordance with the manufacturers specifications and recommendations including surface preparation.

Internal elements
not visible - a single coat (75 microns) of Zincanode 402.
visible - a first coat (75 microns) of Zincanode 402 and a second coat (100 microns) of Weathermax HBR.

External elements (> 100m from waterfront including members with an external cavity or within 1m of a significant opening)
not visible - a first coat (90 microns) of Zincanode 402 a second coat (60 microns) of Ferreko No 5 and a third coat (60 microns) of Ferreko No 5.
or Hot Dipped Galvanised to AS 4680.
visible - a first coat (75 microns) of Zincanode 402 and a second coat (100 microns) of Ferreko No3 and a third coat (100 microns) of Ferreko No3.
or Hot Dipped Galvanised to AS 4680 and a decorative coating.

External elements (marine environment ie < 100m from waterfront)
Specialist specification from paint manufacturers is to be applied to all members.

S10 - All work shop drawings are to be reviewed and approved by the Engineer.

TIMBER

- T1 - All workmanship and materials shall be in accordance with AS1720 and AS1684.
- T2 - All exposed timber shall be H3 treated or of durability class 1.
- T3 - All timber in contact with the ground shall be H4 treated or of durability class 1.
- T4 - All exposed cuts shall be treated to achieve H3 or H4 requirements.
- T5 - All softwood shall be minimum F7.
- T6 - All hardwood shall be a minimum F14.
- T7 - All bolt holes shall be exact size and washers shall be 2.5 x the bolt diameter.

INSPECTIONS

- I1 - Barrenjoey Consulting Engineers shall only inspect works within its capacity as an Engineering Consultancy and will not carry out Mandatory Critical Stage Inspections.
- I2 - Barrenjoey Consulting Engineers will not inspect or certify foundation material adequacy, see F2.
- I2 - All inspections are to be carried out at the request of the projects Principal Certifying Authority, or should independent certification be required at the request of the client or builder.
- I3 - Typical inspections include -
Foundation reinforcement
Slab on ground reinforcement
Suspended concrete reinforcement
Steel structures
Timber structures
Completed Stormwater Management systems
- I4 - The client shall be responsible for any fees for inspections regardless of whom requested them.
- I5 - All re inspection required due to no compliance with issued drawings or that deemed necessary by Barrenjoey Consulting Engineers shall be charged to the client.
- I6 - No certification will be given for works not inspected by Barrenjoey Consulting Engineers.
- I7-48 Hrs notice is required for any inspection within the Sydney region and 72 Hrs notice is required for any inspection outside of this region.

DESIGN LIFE OF THE STRUCTURE

D1 - The design life of all elements as specified within these documents correspond to that required by the Building Code of Australia and the relevant Australian Standard.

D2 - The Design Life of elements relevant to slope stability may be extended to that required by Pittwater Councils Interim Risk Management Policy by the implementation of a rigorous maintenance and inspection schedule together with additional concrete strength and cover specifications as detailed within these plans.

DRAWING SCHEDULE

- S1.00 - GENERAL NOTES
- S2.00 - DECK FRAMING & FOUNDATION PLAN
- S2.01 - DECK FRAMING & FOUNDATION DETAILING 1

WARNING

The stamping of this plan by Insight Building Certifiers Pty Ltd does not relieve:
• The applicant's responsibility to obtain approval from Sydney Water or other utilities.
• The Structural Engineer of their responsibility to ensure the structural adequacy of this project.
• The Applicant, Structural Engineer or other Professional of their responsibility to ensure these stamped details are consistent with the issued Construction Certificate Architectural Details.

This plan / document forms part of Construction Certificate no. 2013 / 5150

DRAWING :

GENERAL NOTES

PROJECT:

PROPOSED DECK EXTENSION
41 ATTUNGA ROAD
NEWPORT
MR & MRS PUDDY

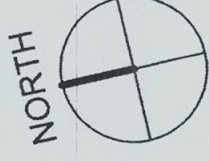
Job No : Drawing No :

130806 CS1.00

Document Certification

Barrenjoey Consulting Engineers Pty Ltd
per
Lucas Molloy MIEA, OPEng, NPER Director

13 AUG 13



DECK FRAMING & FOUNDATION PLAN

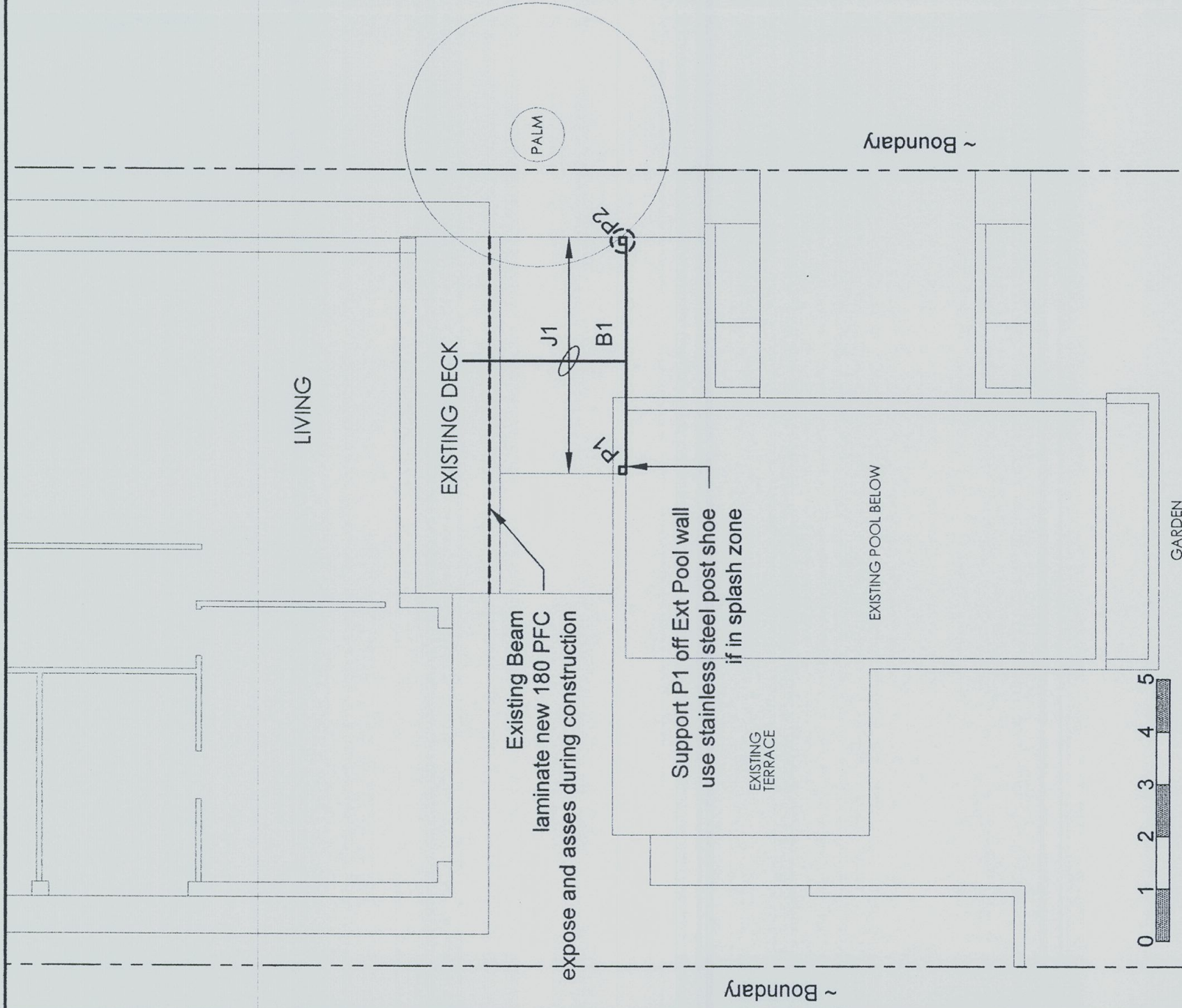
~ 1:100

MEMBERS

- J1 - 140x45 ~~F7 H3~~ @ 450 cts (+ strap bracing back to residence)
- B1 - 180 PFC galv
- P1 - 135x135 ~~F7 H3~~
- P2 - 135x135 ~~F7 H3~~ + 450 dia footing below

NOTE: ALL TIMBER USED IN THE CONSTRUCTION OF THE UNENCLOSED DECK SHALL BE OF BUSHFIRE-RESISTING TIMBER.

This plan / document forms part of Construction Certificate no. 2013/5150



Barrenjoey Consulting Engineers ptj ltd
 Stormwater
 PO Box 672
 Avalon NSW 2107
 P: 9918 6264 F: 9918 5841
 M: 0418 620 330
 E: lucasbce@bigpond.com
 ABN: 13124694917
 ACN: 124694917

PROJECT:

PROPOSED DECK EXTENSION
 41 ATTUNGA ROAD
 NEWPORT
 MR & MRS PUDDY

DRAWING:

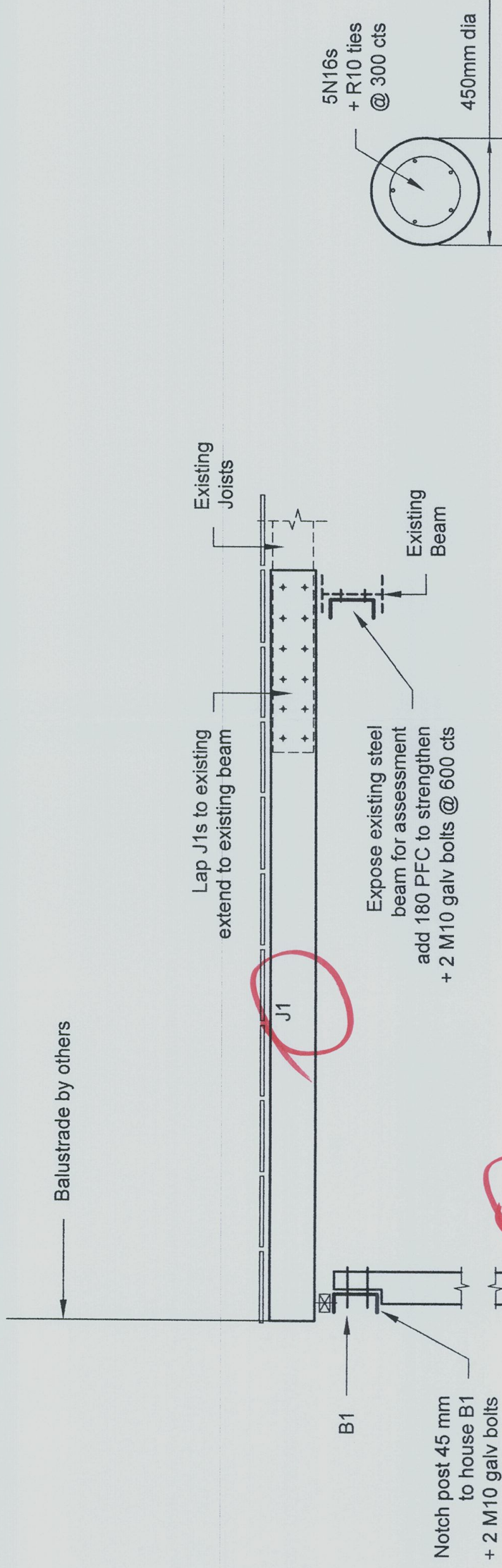
DECK FRAMING &
 FOUNDATION PLAN

Job No :
130806

Drawing No :
S2.00

Document Certification
 Barrenjoey Consulting Engineers ptj ltd
 per
 Lucas Molloy MIEA CPEng NPER Director

AUG 13



NOTE: ALL TIMBER USED IN THE CONSTRUCTION OF THE UNENCLOSED DECK SHALL BE OF BUSHFIRE-RESISTING TIMBER.

TYPICAL PIER SECTION
 1:20
 (reinforce if depth > 900mm)
 Fc - 32MPa 50mm cover

FRAMING SECTION
 1:20

This plan / document forms part of Construction Certificate no. 2013/5150

Barrenjoey Consulting Engineers Pty Ltd
 Stormwater Structural Civil
 PO Box 672
 Avalon NSW 2107
 P: 9918 6264 F: 9918 5841
 M: 0418 620 330
 E: lucasbce@bigpond.com
 ABN: 13124694917
 ACN: 124694917

PROJECT:
 PROPOSED DECK EXTENSION
 41 ATTUNGA ROAD
 NEWPORT
 MR & MRS PUDDY

DRAWING:
 DECK FRAMING &
 FOUNDATION DETAILING 1

Job No :
130806

Drawing No :
S2.01

Document Certification
 Barrenjoey Consulting Engineers Pty Ltd
 per
 Lucas Molloy MIEA, CPEng, NPER Director

13 AUG 13

Bushfire Construction Specification BAL 19

(as modified by Planning for Bushfire Protection)

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This plan / document
forms part of
Construction Certificate
no. 2013 / 5150

**COUNCIL
COPY**

SECTION 6 CONSTRUCTION FOR BUSHFIRE ATTACK LEVEL 19 (BAL — 19)

SARKING

Any sarking used for BAL-12.5, BAL-19, BAL-29 or BAL-40 shall be:

- a) Non-combustible; or
- b) Breather-type sarking complying with AS/NZS 4200.1 and with a flammability index of not more than 5 (see AS1530.2) and sarked on the outside of the frame;
or
- c) An insulation material conforming to the appropriate Australian Standard for that material.

6.1 GENERAL

A building assessed in Section 2 as being BAL—19 shall comply with Section 3 and Clauses 6.2 to 6.8.

NOTE: There are a number of Standards that specify requirements for construction; however, where this Standard does not provide construction requirements for a particular element, the other Standards apply.

Any element of construction or system that satisfies the test criteria of AS 1530.8.1 may be used in lieu of the applicable requirements contained in Clauses 6.2 to 6.8 (see Clause 3.8).

NOTE: BAL—19 is primarily concerned with protection from ember attack and radiant heat greater than 12.5 kW/m² up to and including 19 kW/m².

6.2 SUBFLOOR SUPPORTS

This Standard does not provide construction requirements for subfloor supports where the subfloor space is enclosed with—

- a) a wall that complies with Clause 7.4; or
- b) a mesh or perforated sheet with a maximum aperture of 2 mm, made of corrosion resistant steel, bronze or aluminium; or
- c) a combination of Items (a) and (b) above.

d) Where the subfloor space is unenclosed, the support posts, columns, stumps, piers and poles shall be—

- (i) of non-combustible material; or
- (ii) of bushfire-resisting timber (see Appendix F); or
- (iii) a combination of Items (i) and (ii) above.

NOTE: This requirement applies to the principal building only and not to verandas, decks, steps, ramps and landings (see Clause 7.7).

6.3 FLOORS

6.3.1 Concrete slabs on the ground

This Standard does not provide construction requirements for concrete slabs on ground.

6.3.2 Elevated floors

This Standard does not provide construction requirements for elevated floors, including bearers, joists and flooring.

6.4 EXTERNAL WALLS

6.4.1 Walls

That part of an external wall surface that is less than 400 mm from the ground or less than 400 mm above decks, carport roofs, awnings and similar elements or fittings having an angle less than 18 degrees to the horizontal and extending more than 110 mm in width from the wall (see Figure D3, Appendix D) shall be made from—

- a) non-combustible material; or
- b) fibre-cement external cladding, a minimum of 6 mm in thickness; or
- c) bushfire-resisting timber (see Appendix F); or
- d) a timber species as specified in Paragraph E1, Appendix E; or
- e) a combination of any of Items (a), (b), (c) or (d) above.

This Standard does not provide construction requirements for external wall surfaces 400mm or more from the ground or for external wall surfaces 400 mm or more above decks, carport roofs, awnings and similar elements or fittings having an angle less than 18 degrees to the horizontal and extending more than 110 mm in width from the wall (see

Figure D3, Appendix D).

6.4.2 Joints

All joints in the external surface material of walls shall be covered, sealed, overlapped, backed or butt-jointed to prevent gaps greater than 3 mm. Alternatively, sarking-type material may be applied over the outer face of the frame prior to fixing any external cladding.

6.4.3 Vents and weepholes

Vents and weepholes in external walls shall be screened with mesh with a maximum aperture of 2 mm, made of corrosion-resistant steel, bronze or aluminium, except where they are less than 3 mm (see Clause 3.6), or are located in an external wall of a subfloor space.

6.5 EXTERNAL GLAZED ELEMENTS AND ASSEMBLIES AND EXTERNAL DOORS

6.5.1 Bushfire shutters

Where fitted, bushfire shutters shall comply with Clause 3.7 and be made from—

- a) non-combustible material; or
- b) a timber species as specified in Paragraph E1, Appendix E; or
- c) bushfire-resisting timber (see Appendix F); or
- d) a combination of any of Items (a), (b), or (c) above.

6.5.1A Screens for windows and doors

Where fitted, screens for windows and doors shall have a mesh or perforated sheet with a maximum aperture of 2 mm, made of corrosion-resistant steel, bronze or aluminium.

Gaps between the perimeter of the screen assembly and the building element to which it is fitted shall not exceed 3 mm.

The frame supporting the mesh or perforated sheet shall be made from—

- a) metal; or
- b) bushfire-resisting timber (see Appendix F); or
- c) a timber species as specified in Paragraph E2, Appendix E.

6.5.2 Windows

Window assemblies shall comply with one of the following:

- a) They shall be completely protected by a bushfire shutter that complies with Clause 6.5.1. or
 - b) They shall be completely protected externally by screens that comply with Clause 6.5.1A. or
 - c) They shall comply with the following:
 - (i) For window assemblies less than 400 mm from the ground or less than 400 mm above decks, carport roofs, awnings and similar elements or fittings, having an angle less than 18 degrees to the horizontal and extending more than 110 mm in width from the window frame (see Figure D3, Appendix D), window frames and window joinery, shall be made from one of the following:
 - (A) Bushfire-resisting timber (see Appendix F). or
 - (B) A timber species as specified in Paragraph E2, Appendix E. or
 - (C) Metal. or
 - (D) Metal-reinforced PVC-U. The reinforcing members shall be made from aluminium, stainless steel, or corrosion-resistant steel and the frame and the sash shall satisfy the design load, performance and structural strength of the member.
 - (ii) Externally fitted hardware that supports the sash in its functions of opening and closing, shall be metal.
 - (iii) Where glazing is less than 400 mm from the ground or less than 400 mm above decks, carport roofs, awnings and similar elements or fittings, having an angle less than 18 degrees to the horizontal and extending more than 110 mm in width from the window frame (see Figure D3, Appendix D), the glazing shall be toughened glass minimum 5 mm, or glass blocks with no restriction on glazing methods.
- NOTE: Where double-glazed units are used, the above requirements apply to the external face of the window assembly only.
- (iv) Where glazing is other than that specified in Item (iii) above, annealed glass may be used. Where annealed glass is used, both the fixed and openable portions of windows shall be screened externally with screens that comply with Clause 6.5.1A.

(v) Where toughened glass is used, it shall be toughened glass of minimum 5 mm and the openable portions of windows shall be screened internally or externally with screens that comply with Clause 6.5.1A.

(vi) Glazed elements that are designed to take internal screens shall use toughened glass of minimum 5 mm and the openable portion shall be screened with screens that comply with Clause 6.5.1A.

6.5.3 Doors—Side-hung external doors (including French doors, panel fold and bi-fold doors)

Side-hung external doors, including French doors, panel fold and bi-fold doors, shall comply with one of the following:

- a) They shall be protected by a bushfire shutter that complies with Clause 6.5.1. or
- b) They shall be completely protected externally by screens that comply with Clause 6.5.1A. or
- c) They shall comply with the following:

(i) Doors shall be—

- (A) non-combustible; or
- (B) a solid timber door, having a minimum thickness of 35 mm for the first 400 mm above the threshold; or
- (C) a door, including a hollow core door, with a non-combustible kick-plate on the outside for the first 400 mm above the threshold; or
- (D) a fully framed glazed door, where the framing is made from materials specified for bushfire shutters (see Clause 6.5.1), or from a timber species as specified in Paragraph E2, Appendix E.

(ii) Where doors incorporate glazing, the glazing shall be toughened glass minimum 5 mm.

(iii) Doors shall be tight-fitting to the door frame and to an abutting door, if applicable.

(iv) Where the door frame is less than 400 mm from the ground or less than 400 mm above decks, carport roofs, awnings and similar elements or fittings having an angle less than 18 degrees to the horizontal and extending more than 110 mm in width from the

door (see Figure D3, Appendix D), the door frame shall be made from one of the following:

- (A) Bushfire-resisting timber (see Appendix F). or
 - (B) A timber species as specified in Paragraph E2, Appendix E. or
 - (C) Metal. or
 - (D) Metal-reinforced PVC-U. The reinforcing members shall be made from aluminium, stainless steel, or corrosion-resistant steel and the door assembly shall satisfy the design load, performance and structural strength of the member.
- (v) Weather strips, draught excluders or draught seals shall be installed at the base of side-hung external doors.

6.5.4 Doors—Sliding doors

Sliding doors shall comply with one of the following:

- a) They shall be completely protected by a bushfire shutter that complies with Clause 6.5.1., or
- b) They shall be completely protected externally by screens that comply with Clause 6.5.1A., or
- c) They shall comply with the following:
 - (i) Any glazing incorporated in sliding doors shall be toughened glass minimum 5 mm.
 - (ii) Both the door frame supporting the sliding door and the framing surrounding any glazing shall be made of one of the following:
 - (A) Bushfire-resisting timber (see Appendix F). or
 - (B) A timber species as specified in Paragraph E2, Appendix E. or
 - (C) Metal. or
 - (D) Metal-reinforced PVC-U. The reinforcing members shall be made from aluminium, stainless steel, or corrosion-resistant steel and the frame and the sash shall satisfy the design load, performance and structural strength of the member.
 - (iii) There is no requirement to screen the openable part of the sliding door.

However, if screened, the screens shall comply with Clause 6.5.1A.

NOTE: The construction of manufactured sliding doors should prevent the entry of embers when the door is closed. There is no requirement to provide screens to the openable part of these doors as it is assumed that a sliding door will be closed if occupants are not present or during a bushfire event. Screens of materials other than those specified may not resist ember attack

(iv) Sliding doors shall be tight-fitting in the frames.

6.5.5 Doors—Vehicle access doors (garage doors)

The following apply to vehicle access doors:

(a) The lower portion of a vehicle access door that is within 400 mm of the ground when the door is closed (see Figure D4, Appendix D) shall be made from—

- (i) non-combustible material; or
- (ii) bushfire-resisting timber (see Appendix F); or
- (iii) fibre-cement sheet, a minimum of 6 mm in thickness; or
- (iv) a timber species as specified in Paragraph E1, Appendix E; or
- (v) a combination of any of Items (i), (ii), (iii) or (iv) above.

(b) Panel lift, tilt doors or side-hung doors shall be fitted with suitable weather strips, draught excluders, draught seals or guide tracks, as appropriate to the door type, with a maximum gap no greater than 3 mm.

(c) Roller doors shall have guide tracks with a maximum gap no greater than 3 mm and shall be fitted with a nylon brush that is in contact with the door (see Figure D4, Appendix D).

(d) Vehicle access doors shall not include ventilation slots.

6.6 ROOFS (INCLUDING VERANDA AND ATTACHED CARPORT ROOFS, PENETRATIONS, EAVES, FASCIAS, GABLES, GUTTERS AND DOWNPIPES)

6.6.1 General

The following apply to all types of roofs and roofing systems:

- a) Roof tiles, roof sheets and roof-covering accessories shall be non-combustible.

- b) The roof/wall junction shall be sealed, to prevent openings greater than 3 mm, either by the use of fascia and eaves linings or by sealing between the top of the wall and the underside of the roof and between the rafters at the line of the wall.
- c) Roof ventilation openings, such as gable and roof vents, shall be fitted with ember guards made of non-combustible material or a mesh or perforated sheet with a maximum aperture of 2 mm, made of corrosion-resistant steel, bronze or aluminium.

6.6.2 Tiled roofs

Tiled roofs shall be fully sarked. The sarking shall—

- a) have a flammability index of not more than 5, when tested to AS 1530.2;
- b) be located directly below the roof battens;
- c) cover the entire roof area including the ridge; and
- d) be installed so that there are no gaps that would allow the entry of embers where the sarking meets fascias, gutters, valleys and the like.

6.6.3 Sheet roofs

Sheet roofs shall—

- a) be fully sarked in accordance with Clause 6.6.2, except that foil-backed insulation blankets may be installed over the battens; or
- b) have any gaps greater than 3 mm under corrugations or ribs of sheet roofing and between roof components sealed at the fascia or wall line and at valleys, hips and ridges by—
 - (i) a mesh or perforated sheet with a maximum aperture of 2 mm, made of corrosion-resistant steel, bronze or aluminium; or
 - (ii) mineral wool; or
 - (iii) other non-combustible material; or
 - (iv) a combination of any of Items (i), (ii), or (iii) above.

6.6.4 Veranda, carport and awning roofs

The following apply to veranda, carport and awning roofs:

- a) A veranda, carport or awning roof forming part of the main roof space [see Figure D1(a), Appendix D] shall meet all the requirements for the main roof, as specified in Clauses 6.6.1, 6.6.2, 6.6.3, 6.6.5 and 6.6.6.
- b) A veranda, carport or awning roof separated from the main roof space by an external wall [see Figures D1(b) and D1(c), Appendix D] complying with Clause 6.4 shall have a non-combustible roof covering.

NOTE: There is no requirement to line the underside of a veranda, carport or awning roof that is separated from the main roof space.

6.6.5 Roof penetrations

The following apply to roof penetrations:

- a) Roof penetrations, including roof lights, roof ventilators, roof-mounted evaporative cooling units, aerials, vent pipes and supports for solar collectors shall be adequately sealed at the roof to prevent gaps greater than 3 mm. The material used to seal the penetration shall be non-combustible.
- b) Openings in vented roof lights, roof ventilators or vent pipes shall be fitted with ember guards made from a mesh or perforated sheet with a maximum aperture of 2 mm, made of corrosion-resistant steel, bronze or aluminium.
- c) All overhead glazing shall be Grade A safety glass complying with AS 1288.
- d) Glazed elements in roof lights and skylights may be of polymer provided a Grade A safety glass diffuser, complying with AS 1288, is installed under the glazing. Where glazing is an insulating glazing unit (IGU), Grade A toughened safety glass of minimum 4 mm shall be used in the outer pane of the IGU.
- e) Flashing elements of tubular skylights may be of a fire-retardant material, provided the roof integrity is maintained by an under-flashing of a material having a flammability index no greater than 5.
- f) Evaporative cooling units shall be fitted with butterfly closers at or near the ceiling level, or the unit shall be fitted with non-combustible covers with a mesh or perforated sheet with a maximum aperture of 2 mm, made of corrosion-resistant steel, bronze or aluminium.

6.6.6 Eaves linings, fascias and gables

The following apply to eaves linings, fascias and gables:

- a) Gables shall comply with Clause 6.4.
- b) Eaves penetrations shall be protected the same as for roof penetrations, as specified in Clause 6.6.5.
- c) Eaves ventilation openings greater than 3 mm shall be fitted with ember guards made of non-combustible material or a mesh or perforated sheet with a maximum aperture of 2 mm, made of corrosion-resistant steel, bronze or aluminium.

Joints in eaves linings, fascias and gables may be sealed with plastic joining strips or timber storm moulds.

This Standard does not provide construction requirements for fascias, bargeboards and eaves linings.

6.6.7 Gutters and downpipes

This Standard does not provide material requirements for—

- a) gutters, with the exception of box gutters; and
- b) downpipes.

If installed, gutter and valley leaf guards shall be non-combustible.

Box gutters shall be non-combustible and flashed at the junction with the roof with noncombustible material.

6.7 VERANDAS, DECKS, STEPS, RAMPS AND LANDINGS

The following specifications have been varied to include the requirements of the NSW RFS variation to the Australian Standard as outlined in the Addendum to Appendix 3 of Planning for Bushfire Protection 2006

6.7.1 General

Decking may be spaced.

There is no requirement to enclose the subfloor spaces of verandas, decks, steps, ramps or landings.

C7.7.1 Spaced decking is nominally spaced at 3 mm (in accordance with standard industry practice); however, due to the nature of timber decking with seasonal changes in moisture content, that spacing may range from 0–5 mm during service. The preferred dimension for gaps is 3 mm (which is in line with other 'permissible gaps') in other parts of this Standard. It should be noted that recent research studies

have shown that gaps at 5 mm spacing afford opportunity for embers to become lodged in between timbers, which may contribute to a fire. Larger gap spacing of 10 mm may preclude this from happening but such a spacing regime may not be practical for a timber deck.

6.7.2 Enclosed subfloor spaces of verandas, decks, steps, ramps and landings

6.7.2.1 Materials to enclose a subfloor space

The subfloor spaces of verandas, decks, steps, ramps and landings are considered to be 'enclosed' when—

- a) the material used to enclose the subfloor space complies with Clause 7.4; and all openings greater than 3 mm are screened with a mesh or perforated sheet with a maximum aperture of 2 mm, made of corrosion-resistant steel, bronze or aluminium.

6.7.2.2 Subfloor supports

This Standard does not provide construction requirements for support posts, columns, stumps, stringers, piers and poles.

6.7.2.3 Framing

This Standard does not provide construction requirements for the framing of verandas, decks, ramps or landings (i.e., bearers and joists).

6.7.2.4 Decking, stair treads and the trafficable surfaces of ramps and landings

Decking, stair treads and the trafficable surfaces of ramps and landings shall be—

- a) of non-combustible material; or
- b) of bushfire-resisting timber (see Appendix F); or
- a combination of Items (a) and (b) above.

6.7.3 Unenclosed subfloor spaces of verandas, decks, steps, ramps and landings

6.7.3.1 Supports

Support posts, columns, stumps, stringers, piers and poles shall be—

- a) of non-combustible material; or
- b) of bushfire-resisting timber (see Appendix F); or
- c) a combination of Items (a) and (b) above.

6.7.3.2 Framing

Framing of verandas, decks, ramps or landings (i.e., bearers and joists) shall be—

- a) of non-combustible material; or

- b) of bushfire-resisting timber (see Appendix F); or
- c) a combination of Items (a) and (b) above.

6.7.3.3 Decking, stair treads and the trafficable surfaces of ramps and landings

Decking, stair treads and the trafficable surfaces of ramps and landings shall be—

- a) of non-combustible material; or
- b) of bushfire-resisting timber (see Appendix F); or
- c) a combination of Items (a) and (b) above.

6.7.4 Balustrades, handrails or other barriers

Those parts of the handrails and balustrades less than 125 mm from any glazing or any combustible wall shall be—

- a) of non-combustible material; or
- b) bushfire-resisting timber (see Appendix F); or
- c) a combination of Items (i) and (ii) above.

Those parts of the handrails and balustrades that are 125 mm or more from the building have no requirements.

6.8 WATER AND GAS SUPPLY PIPES

Above-ground, exposed water and gas supply pipes shall be metal.

Appendix E list of Timbers AS3959, 2009

Standard trade name Botanical name	Corymbia citriodora
Ash, alpine Eucalyptus delegatensis	Gum, sugar Eucalyptus cladocalyx
Ash, Crow's Flindersia australis	Hardwood, Johnstone River Backhousia bancroftii
Ash, mountain Eucalyptus regnans	Ironbark, grey Eucalyptus paniculata
Ash, silvertop Eucalyptus sieberi	Ironbark, red Eucalyptus sideroxylon
Balau (selangan batu) Shorea spp.	Jarrah Eucalyptus marginata
Bangkirai Shorea laevifolia	Kapur Dryobalanops spp.
Beech, myrtle Nothofagus cunninghamii	Karri Eucalyptus diversicolor
Belian Eusideroxylon zwageri	Kempas Koompassia malaccensis
Blackbutt Eucalyptus pilularis	Keruing Dipterocarpus spp.
Blackbutt, New England Eucalyptus andrewsii	Kwila (Merbau) Intsia bijuga
Eucalyptus campanulata	Mahogany, Philippine red, dark Shorea spp.
Blackwood Acacia melanoxylon	Mahogany red Eucalyptus resinifera
Box, brush Lophostemon confertus	Mahogany, southern Eucalyptus botryoides
Box, grey Eucalyptus microcarpa	Mahogany, white Eucalyptus acmenoides
Box, grey, coast Eucalyptus bosistoana	Messmate Eucalyptus obliqua
Box, white-topped Eucalyptus quadrangulata	Messmate, Gympie Eucalyptus cloeziana
Box, yellow Eucalyptus melliodora	Northern Box (Pelawan) Tristaniopsis spp.
Brownbarrel Eucalyptus fastigata	Oak, American Quercus spp.
Candlebark Eucalyptus rubida	Peppermint, narrow-leaved Eucalyptus australiana
Cypress Callitris glaucophylla	Pine, celery-top Phyllocladus asplenifolius
Gum, blue, southern Eucalyptus globulus	Pine, slash Pinus elliottii

Gum, blue, Sydney Eucalyptus saligna	Ramin Gonystylus spp.
Gum, grey Eucalyptus propinqua	Rosewood, New Guinea Pterocarpus indicus
Gum, grey, mountain Eucalyptus cypellocarpa	Satinay Syncarpia hillii
Gum, Maiden's Eucalyptus maidenii	Stringybark, Blackdown Eucalyptus sphaerocarpa
Gum, manna Eucalyptus viminalis	Stringybark, blue-leaved Eucalyptus agglomerata
Gum, mountain Eucalyptus dalrympleana	Stringybark, brown Eucalyptus baxteri
Gum, red, forest Eucalyptus tereticornis	Stringybark, silvertop Eucalyptus laevopinea
Gum, red, river Eucalyptus camaldulensis	Stringybark, white Eucalyptus eugenioides
Gum, rose Eucalyptus grandis	Stringybark, yellow Eucalyptus muelleriana
Gum, shinning Eucalyptus nitens	Tallowwood Eucalyptus microcorys
Corymbia maculata	Taun Pometia pinnata
Corymbia henryi	Turpentine Syncarpia glomulifera
Gum, spotted	Vitex, New Guinea Vitex cofassus
	Woollybutt Eucalyptus longifolia

Appendix F list of Timbers AS3959, 2009

Black-butt - Eucalyptus pilularis

Turpentine - Syncarpia glomulifera

Silver Top Ash - Eucalyptus sieberi

Spotted Gum - Corymbia maculate - Corymbia henryi - Corymbia citriodora

Red Iron Bark - Eucalyptus sideroxylon

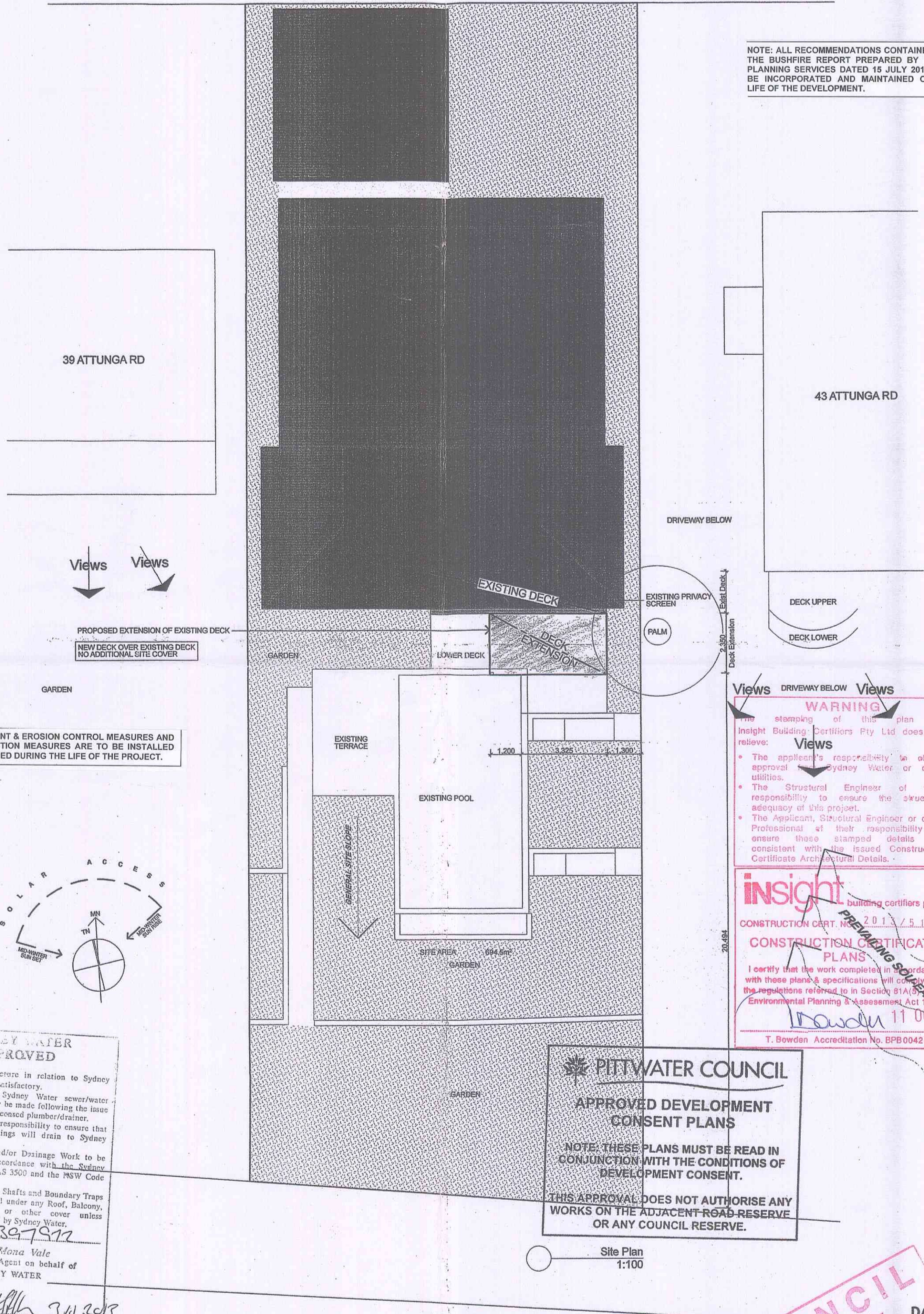
Kwila[Merbau] - Intsia bijuga

Red River Gum - Eucalyptus camaldulensis

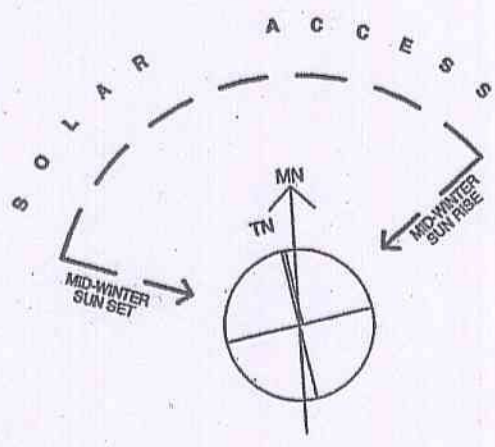
Blackbutt Eucalyptus pilularis	Blackbutt Eucalyptus pilularis
Blue Gum Eucalyptus globulus	Blue Gum Eucalyptus globulus
Grey Gum Eucalyptus propinqua	Grey Gum Eucalyptus propinqua
Mountain Gum Eucalyptus cypellocarpa	Mountain Gum Eucalyptus cypellocarpa
Maiden Gum Eucalyptus maidenii	Maiden Gum Eucalyptus maidenii
Manna Gum Eucalyptus viminalis	Manna Gum Eucalyptus viminalis
Mountain Gum Eucalyptus dalrympleana	Mountain Gum Eucalyptus dalrympleana
Forest Gum Eucalyptus tereticornis	Forest Gum Eucalyptus tereticornis
River Gum Eucalyptus camaldulensis	River Gum Eucalyptus camaldulensis
Rose Gum Eucalyptus grandis	Rose Gum Eucalyptus grandis
Shinning Gum Eucalyptus nitens	Shinning Gum Eucalyptus nitens
Spotted Gum Corymbia maculata	Spotted Gum Corymbia maculata
Spotted Gum Corymbia henryi	Spotted Gum Corymbia henryi
Spotted Gum Corymbia citriodora	Spotted Gum Corymbia citriodora
Iron Bark Eucalyptus sideroxylon	Iron Bark Eucalyptus sideroxylon
Merbau Intsia bijuga	Merbau Intsia bijuga
Red River Gum Eucalyptus camaldulensis	Red River Gum Eucalyptus camaldulensis
Ramin Gonystylus spp.	Ramin Gonystylus spp.
Pterocarpus indicus	Pterocarpus indicus
Syncarpia hillii	Syncarpia hillii
Eucalyptus sphaerocarpa	Eucalyptus sphaerocarpa
Eucalyptus agglomerata	Eucalyptus agglomerata
Eucalyptus baxteri	Eucalyptus baxteri
Eucalyptus laevopinea	Eucalyptus laevopinea
Eucalyptus eugenioides	Eucalyptus eugenioides
Eucalyptus muelleriana	Eucalyptus muelleriana
Eucalyptus microcorys	Eucalyptus microcorys
Pometia pinnata	Pometia pinnata
Syncarpia glomulifera	Syncarpia glomulifera
Vitex cofassus	Vitex cofassus
Eucalyptus longifolia	Eucalyptus longifolia

NOTE: IF THE EXISTING SWIMMING POOL SAFETY BARRIER IS FOUND TO BE DEFICIENT OR IS TO BE ALTERED OR MODIFIED AS PART OF THIS DEVELOPMENT THEN THE EXISTING SWIMMING POOL IS TO BE SURROUNDED BY A SWIMMING POOL SAFETY BARRIER THAT COMPLIES WITH THE CURRENT REQUIREMENTS OF THE SWIMMING POOLS ACT I.E. AUSTRALIAN STANDARD AS1926.1-2012

NOTE: ALL RECOMMENDATIONS CONTAINED WITHIN THE BUSHFIRE REPORT PREPARED BY BUSHFIRE PLANNING SERVICES DATED 15 JULY 2013 ARE TO BE INCORPORATED AND MAINTAINED OVER THE LIFE OF THE DEVELOPMENT.



NOTE: SEDIMENT & EROSION CONTROL MEASURES AND TREE PROTECTION MEASURES ARE TO BE INSTALLED AND MAINTAINED DURING THE LIFE OF THE PROJECT.



WARNING

The stamping of this plan by Insight Building Certifiers Pty Ltd does not relieve:

- The applicant's responsibility to obtain approval from Sydney Water or other utilities.
- The Structural Engineer of their responsibility to ensure the structural adequacy of this project.
- The Applicant, Structural Engineer or other Professional of their responsibility to ensure these stamped details are consistent with the issued Construction Certificate Architectural Details.

insight building certifiers pty ltd
CONSTRUCTION CERT. NO. 2013/515.0...
CONSTRUCTION CERTIFICATE PLANS
I certify that the work completed in accordance with these plans & specifications will comply with the regulations referred to in Section 81A(5) of the Environmental Planning & Assessment Act 1979.
Bowden 11/06/2013
T. Bowden Accreditation No. BPC0042

SYDNEY WATER APPROVED

Position of structure in relation to Sydney Water's assets is satisfactory.

Connections to Sydney Water sewer/water services may only be made following the issue of a permit to a licensed plumber/drainlayer.

It is the owner's responsibility to ensure that all proposed fittings will drain to Sydney Water's sewer.

Any Plumbing and/or Drainage Work to be carried out in accordance with the Sydney Water Act 1994, AS 3500 and the NSW Code of Practice.

Gullies, Inspection Shafts and Boundary Traps shall not be placed under any Roof, Balcony, Verandah, Floor or other cover unless otherwise approved by Sydney Water.

Property No. 339-7317
Reece, Mona Vale
Quick Check Agent on behalf of SYDNEY WATER
3/10/2013

PITWATER 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 WORKS ON THE ADJACENT ROAD RESERVE OR ANY COUNCIL RESERVE.

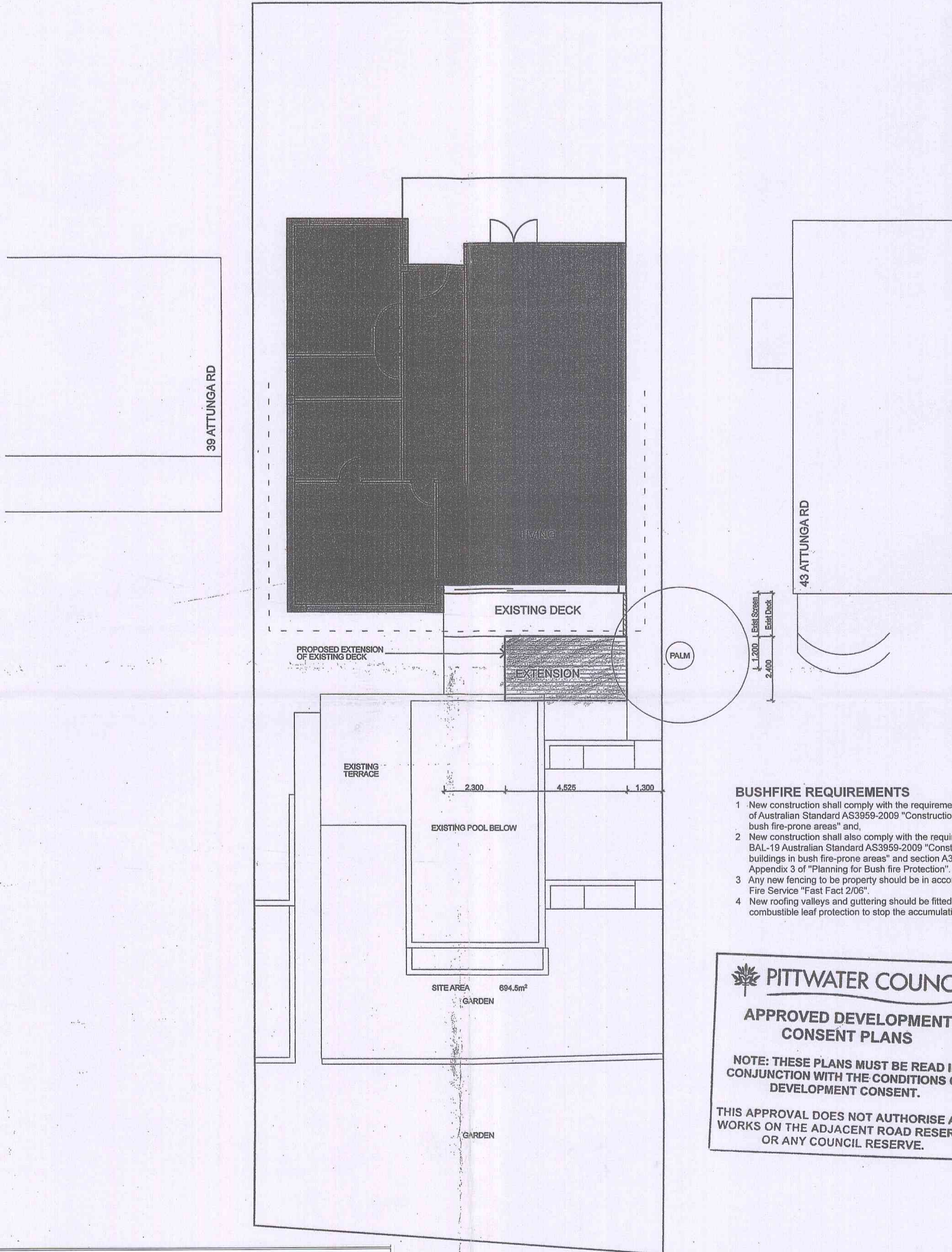
Site Plan 1:100

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DA ISSUE
Ref Date: 10/07/13

<table border="1"> <thead> <tr> <th>Date</th> <th>Issue</th> <th>Description</th> </tr> </thead> <tbody> <tr> <td>04/02/2013</td> <td>A</td> <td>Issued Development Application</td> </tr> </tbody> </table>	Date	Issue	Description	04/02/2013	A	Issued Development Application	<p>The holder shall check and verify all dimensions and verify all errors and omissions to be corrected. Do not make the drawings. Drawings shall not be used for construction purposes until issued by the Architect for construction.</p>	<p>GARTNER TROVATO ARCHITECTS</p> <p>A 47/508 MONA VALE ROAD MONA VALE NSW 2110 PH: 02 9378 1122 FX: 02 9378 4411 02 9378 4422 GTA@GT.AU</p>	<p>Project: Deck Extension 41 Attunga Road, Newport</p> <p>Client: Puddy</p> <p>Drawing: Site Analysis & Site Plan</p>	<p>Drawn/Designed: LT/AH Date: July 2013</p> <p>Project Number: 1315 Scale: AS SHOWN @ (A3)</p> <p>Drawing No.: A-01 Issue: A</p>
Date	Issue	Description								
04/02/2013	A	Issued Development Application								

NOTE: IF THE EXISTING SWIMMING POOL SAFETY BARRIER IS FOUND TO BE DEFICIENT OR IS TO BE ALTERED OR MODIFIED AS PART OF THIS DEVELOPMENT THEN THE EXISTING SWIMMING POOL IS TO BE SURROUNDED BY A SWIMMING POOL SAFETY BARRIER THAT COMPLIES WITH THE CURRENT REQUIREMENTS OF THE SWIMMING POOLS ACT I.E. AUSTRALIAN STANDARD AS1926.1-2012



BUSHFIRE REQUIREMENTS

- 1 New construction shall comply with the requirements of section 3 of Australian Standard AS3959-2009 "Construction of buildings in bush fire-prone areas" and,
- 2 New construction shall also comply with the requirements of BAL-19 Australian Standard AS3959-2009 "Construction of buildings in bush fire-prone areas" and section A3.7 Addendum Appendix 3 of "Planning for Bush fire Protection".
- 3 Any new fencing to be property should be in accordance with Rural Fire Service "Fast Fact 2/06".
- 4 New roofing valleys and guttering should be fitted with a non combustible leaf protection to stop the accumulation of debris.

PITTWATER 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 WORKS ON THE ADJACENT ROAD RESERVE OR ANY COUNCIL RESERVE.

- Smoke Alarms to be installed in accordance with AS 3786-1993 'Smoke alarms'
- Termite Management to comply with AS 3660 - 2000 'Termite Management - New Building Work'
- Glazing to comply with AS 1288 - 2006 'Glass in Buildings - Selection & Installation' and AS 2047 - 1999 'Windows in Buildings - Selection & Installation'
- Waterproofing of wet areas to comply with AS 3740 - 2004 'Waterproofing of Wet Areas in Residential Buildings'
- Doors to fully enclosed sanitary compartments to comply with Part 3.8.3 'Facilities' of the Building Code of Australia
- External Glazing & Cladding being of minimal reflectance (maximum of 20%)
- External Finishes being in natural, recessive, non-reflective colours and textures
- Stair construction to comply with Part 3.9.1 - 'Stair Construction' of the Building Code of Australia
- Balustrades construction to comply with Part 3.9.2.3 - 'Balustrades' of the Building Code of Australia
- Damp-proof membrane must be 'high impact', 0.2mm thick polyethylene film

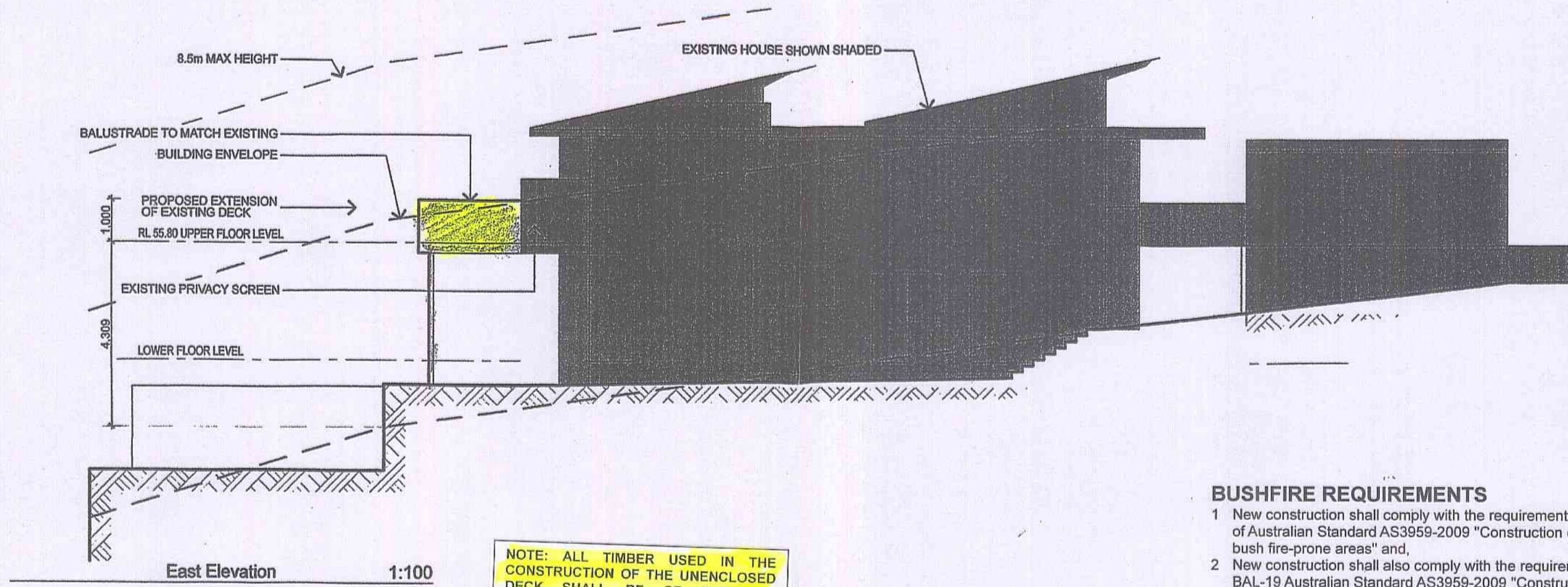
Ground Floor Plan
1:100

This plan / document forms part of Construction Certificate no. 2013 / 5150

DA ISSUE
Plot Date: 15/07/13

Date	Issue	Description	The holder shall check and verify all dimensions and all errors and omissions to the Architect. Do not scale the drawings. Drawings shall not be used for construction purposes until issued by the Architect for construction.	Project	Deck Extension 41 Attunga Road, Newport	Drawn/Designed	LJ/AH	Date	July 2013
09/07/2013	A	Issued Development Application		Client	Puddy	Project Number	1315	Scale	AS SHOWN @ (A3)
				Drawing	Floor Plans	Drawing No.	A-02	Issue	A

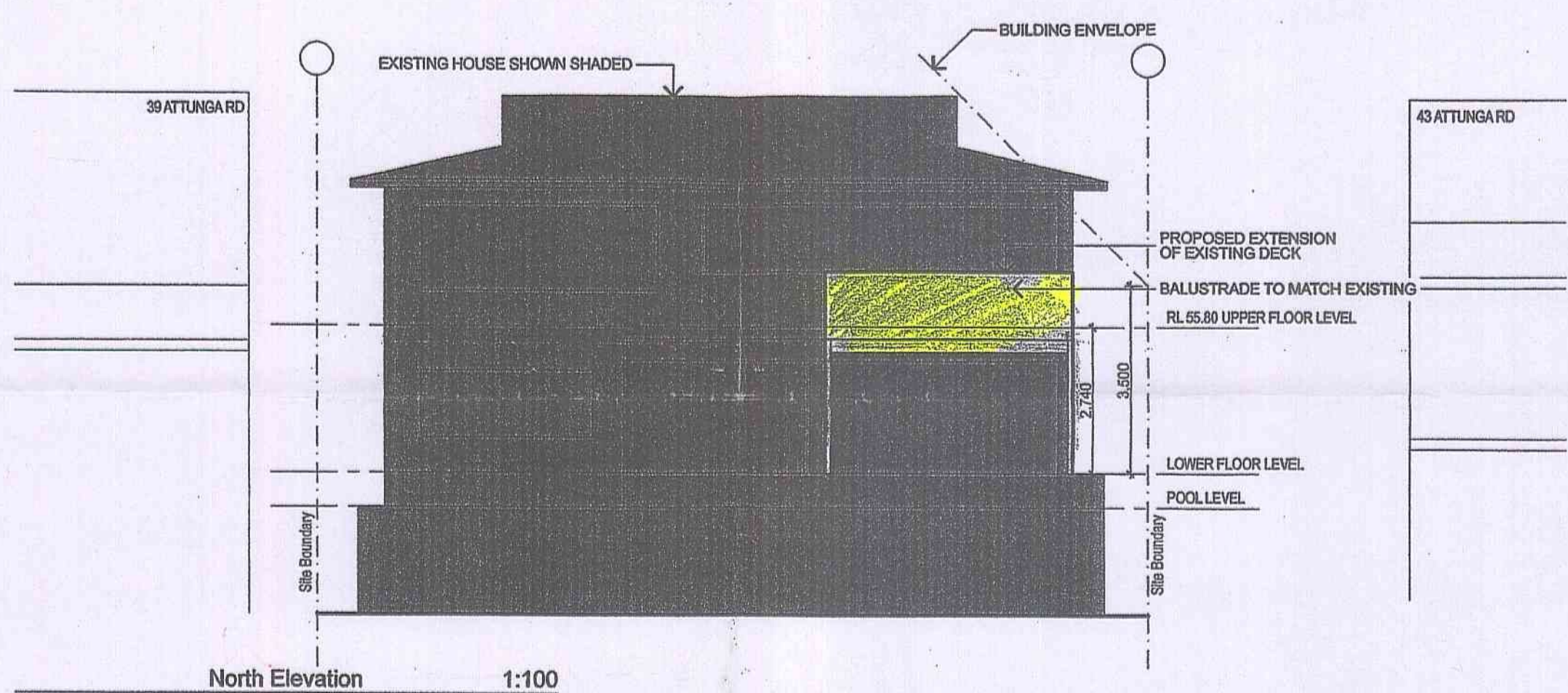
GARTNER TROVATO
 ARCHITECTS
 A 4780 HONIA VALE ROAD
 PO BOX 1128
 HONIA VALE, NEW ZEALAND
 0613 8974 411
 0613 8974 482
 0762011@GARTNER.TROVATO.NZ



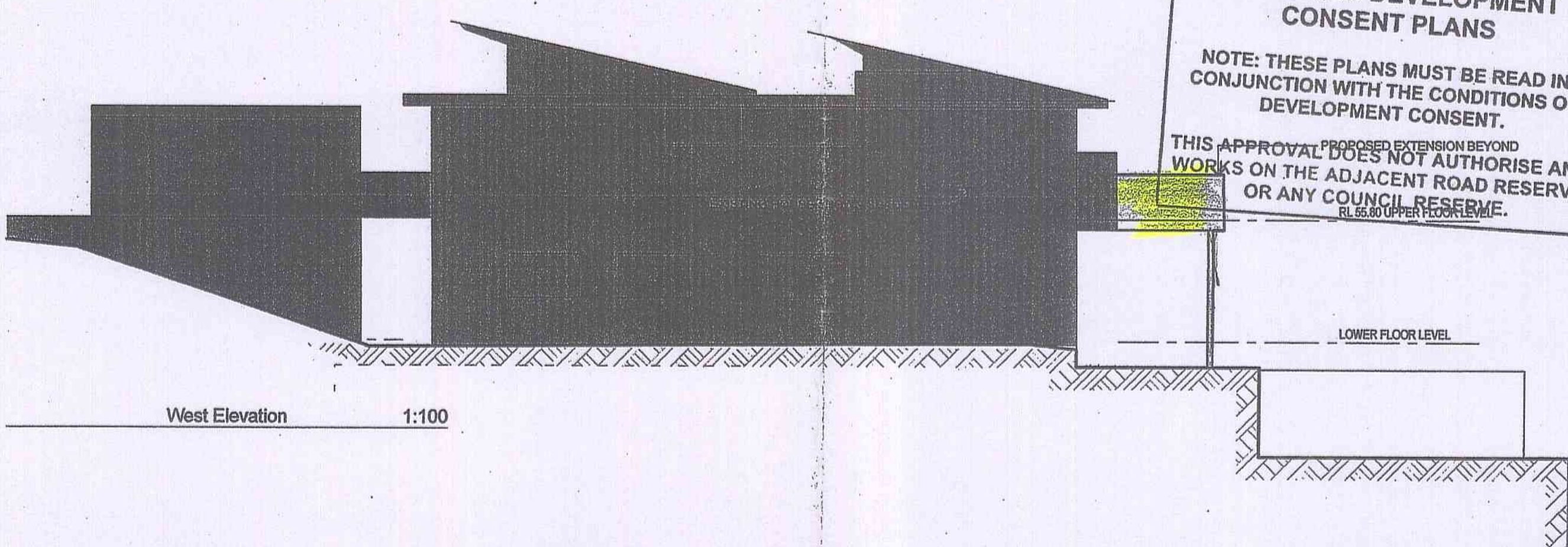
NOTE: ALL TIMBER USED IN THE CONSTRUCTION OF THE UNENCLOSED DECK SHALL BE OF BUSHFIRE-RESISTING TIMBER.

BUSHFIRE REQUIREMENTS

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NOTE: FINISHED SURFACE MATERIALS TO MATCH THE DETAIL AND MATERIALS OF THE EXISTING DWELLING.



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DA ISSUE
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Date	Item	Description										
05/07/2013	A	Issued Development Application										