

11/02/13

Pittwater Council  
PO Box 882  
Mona Vale NSW 2103

Dear Sir or Madam

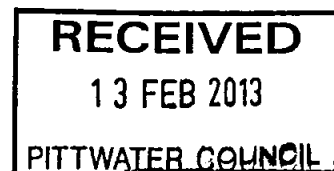
RE: Lodgement of CC 2012-253 for DA No. N0090/12  
Site address: No. 21 Wallumatta Road, Newport NSW 2106

Please find attached all required documentation relied upon to issue Construction Certificate and Notice of Commencement for the above development:

- Part 4A Lodgement Fee \$36.00 payable to Council
- Copy of Home Owners Warranty Insurance
- Sydney Water approval
- 1 full set of Council approved plans/Construction Certificate plans
- 1 Structural Engineers plans & certificate of adequacy
- ~~1 receipt showing payment for Development Bond & section 94A Contributions~~
- 1 Geotechnical Form 2A & 2B
- 1 Schedule of finishes
- 1 Basix certificate

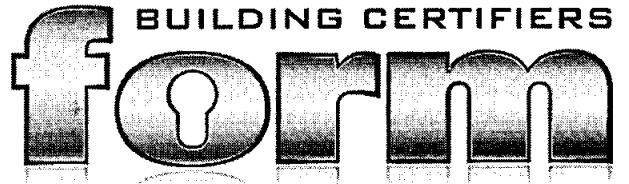
Yours faithfully

Craig Formosa



336 REC: 336488 13/2/13

POSTED  
11/02/13



**CONSTRUCTION CERTIFICATE**

Approved 11/02/13

Issued in accordance with the provisions of the Environmental & Assessment Act 1979 under Sections 109C(1)(b) and 109F

Date Application Received	23/11/12				
Council	Pittwater				
Development Consent No.	N0090/12	Date Approved	06.07.12		
Certifying Authority	Craig Formosa	Accredited Certifier	Craig Formosa - BPB0124		
Accreditation Body	Building Professionals Board	BCA In Force	BCA2012		
<b>APPLICANT DETAILS</b>					
Name	Glenda Hanks	Ph No.	0433 800522		
Address	21 Wallumatta Road, Newport NSW 2106				
<b>OWNER DETAILS</b>					
Name	Glenda Hanks				
Address	21 Wallumatta Road, Newport NSW 2106				
<b>DEVELOPMENT DETAILS</b>					
Subject Land	21 Wallumatta Road, Newport NSW 2106	Lot No.	8	DP	8184
Description of Development	Alterations & additions to the existing dwelling including swimming pool.				
Class of Building	1a, 10a, 10b	Value of Work	\$224,400.00		
<b>BUILDER DETAILS</b>					
Name	Planbuilt Pty Ltd				
Address	33 Argyle Street, Bilgola NSW 2107				
Contact Number	0459 408 881	License No.	227143C		
<b>APPROVED PLANS &amp; DOCUMENTS</b>					
Plans Prepared By	Anna Henry – AH Design				
Drawing Numbers	A-935 sheets 1 of 2, 2 of 2	Dated	11.10		
Engineer Details Prepared By	Mario F Benitez - VDM	Manfred Hausmann – Geotechnical Engineer - VDM			
Drawing Numbers	SD1201-002 1/3 – 3/3, 4/4, Form 2A & B	Dated	08.12, 07/02/13		
Basix Certificate No.	A945596	Dated	30.11.10		
<b>CERTIFICATION</b>					
I, Craig Formosa, as the certifying authority am satisfied that;					
<p>(a) The requirements of the regulations referred to in s81A (5) have been complied with. That is, work completed in accordance with the documentation accompanying the application for this certificate (with such modifications verified by the certifying authority as may be shown on that documentation) will comply with the requirements of the Regulation as referred to in section 81A (5) of the Act, and</p> <p>(b) Long Service Levy has been paid where required under s34 of the Building &amp; Construction Industry Long Service Payments Act 1986.</p>					
Signed:					Date: 11/02/13

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

Development Application for Ms Glenda Hanks Name of Applicant
Address of site 21 Wallumatta Rd, Newport, NSW, 2106

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

I, Mario F Benitez on behalf of VDM Consulting Engineers Pty Ltd  
(insert name) (trading or company name)

on this the Thursday, 7 February 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 for Glenda Hanks – Geotechnical Assessment (According to Pittwater Council 2009) Report Date: 8 <sup>th</sup> March 2012 Author: Dr. Manfred Hausmann Author's Company/Organization: VDM Consulting Engineers P/L
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**Structural Documents list:**

Structural - Construction Notes, Plan Views, Sections & Details pages 1 to 5
Swimming Pool -Structural - Construction Notes, Plan Views, Sections & Details pages 1 to 1

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.

THIS PLAN / DOCUMENT FORMS  
PART OF FORM BUILDING  
CERTIFIERS CC / CDC

Signature

Name Mario F Benitez

Chartered Professional Status *CPEng, MIEAust, IPENZ*

Membership No. 418917, 111943

Company VDM Consulting Engineers P/L

**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, Dr Manfred Hausmann on behalf of VDM Consulting Engineers Pty Ltd  
(insert name) (trading or company name)

on this the Thursday, 7 February 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 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:

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: Glenda Hanks – Geotechnical Assessment (According to Pittwater Council 2009)
Report Date: 8 <sup>th</sup> March 2012
Author: Dr. Manfred Hausmann

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

Architectural – AHDesign – pages A1 to A2 project #935-21
Structural - Construction Notes, Plan Views, Sections & Details pages 1 to 3
Swimming Pool -Structural - Construction Notes, Plan Views, Sections & Details pages 1 to 1

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.

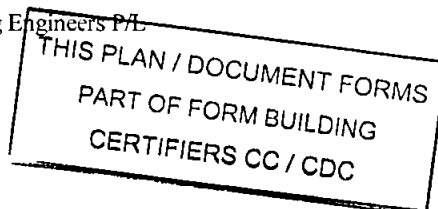
Signature *mhausmann*

Name Dr. Manfred Hausmann

Chartered Professional Status - CPE MIEAust

Membership No 339258

Company VDM Consulting Engineers P/L





# Home Warranty Insurance Fund

calliden  
group

NSWBIBHWI/145157-PermitAuthority

25/01/2013

Planbuilt Pty Ltd  
33 Argyle Street  
BILGOLA NSW 2107

Calliden Insurance Ltd  
ABN 47 004 125 268 AFS Licence 234438  
Level 9, 11-33 Exhibition Street  
MELBOURNE VIC 3000  
Phone: (03) 9637 1300 FAX: 1300 662 215

## Certificate of Insurance

### RESIDENTIAL BUILDING WORK BY CONTRACTORS

A contract of insurance complying with sections 92 and 96A of the Home Building Act 1989 has been issued by **Calliden Insurance Limited** (ABN 47 004 125 268) (AFSL 234438) as agent for and on behalf of the NSW Self Insurance Corporation (SICorp) (ABN 97 369 689 650) who is responsible for management of the Home Warranty Insurance Fund.

In respect of: Structural Alterations/Additions  
At: 21 Wallumatta Road  
NEWPORT NSW 2106  
Carried out by: Planbuilt Pty Ltd  
Licence Number: 227143C  
ABN: 142896544  
For: Adam & Glenda Hanks  
In the amount of: \$224,400.00

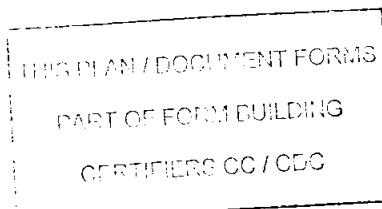
Subject to the Act and the Home Building Regulation 2004 and the conditions of the insurance contract, cover will be provided to:

- a beneficiary described in the contract and successors in title to the beneficiary,
- OR
- the immediate successor in title to the contractor or developer who did the work and subsequent successors in title.

**Authorisation:** Signed by Calliden Insurance Ltd (ABN 47 004 125 268) (AFSL 234438) as agent for and on behalf of the NSW Self Insurance Corporation (SICorp) (ABN 97 369 689 650)

Issued on the 25th day of January, 2013.

**NOTICE: To download a copy of your insurance policy wording visit <http://www.policywording.com.au>.**



## **CERTIFICATE OF ADEQUACY**

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**Re: 21 WAELUMATTA RD.  
NEWPORT, NSW, 2106**

Project N<sup>o</sup>: SD1101-002  
Reference: 120112-A  
Date: 4 February 2013

THIS PLAN / DOCUMENT FORMS  
PART OF ECRM BUILDING  
CERTIFIERS CC / CDC

## 1. Aim

To assess the structural integrity and stability of the existing dwelling and to ensure that the proposed additions and alterations to 21 Wallumatta Rd, Newport can be carry out without causing structural damages.

## 2. Introduction

The existing residence is a two storeys / split level dwelling consisting of a Lower Ground Floor brick veneer external walls with single timber stud internal walls and Ground Floor timber framed and weatherboard clad founded on brick piers on concrete footings for the main building and timber posts on mass and reinforced concrete for the external decks.

The alterations encompass mainly internal changes to the Lower and Ground Floors. In addition a new swimming pool will be built on the existing South Deck.

VDM Consulting Engineers Pty Ltd (VDM) inspected the dwelling on 15<sup>th</sup> February 2012 taken photographic records and geometrical measurements. The inspection (by VDM) focused mainly on sections of the existing residence where additions and alterations have been built as well as future plans.

Calculations and analyses were carry-out in order to ascertain the capability of the existing footings and structural components and to maintain its integrity, stability and adequate load-bearing capacity as determined by:

- AS/NZS 1170.0:2002: *Structural design actions – General principles,*
- AS/NZS 1170.1:2002: *Structural design actions – Permanent, imposed and other actions,*
- AS/NZS 1170.1:2002: *Structural design actions – Wind actions,*
- AS 1720:2010: *Timber structures – Part 1- design methods,*
- AS 3600:2001: *Concrete Structures Codes,*
- AS 3700:2001: *Masonry structures,*
- AS 4100:1998: *Steel structures,*
- Building Code of Australia (BCA),
- Pittwater Council consent conditions,
- Principles of structural mechanics.

Loads used for the analysis included:

- Dead load (DL) – 0.70kPa ( 69 kg/m<sup>2</sup>) self weight
- Live load (LL) – 3.0kPa (294 kg/m<sup>2</sup>) (Deck / Balcony)
- Live load (LL) – 1.5kPa (147 kg/m<sup>2</sup>) elsewhere
- Concrete self weight (sw) – 25 kN/m<sup>3</sup> (2,453 kg/ m<sup>3</sup>) includes steel reinforcement
- Steel -  $f_s = 300\text{MPa}$
- Concrete –  $f'_c = 25\text{MPa}$

Serviceability factors:

- Short term  $\psi_s = 0.7$
- Long term  $\psi_l = 0.4$

Strength factors

- Dead load – 1.2
- Live load – 1.5

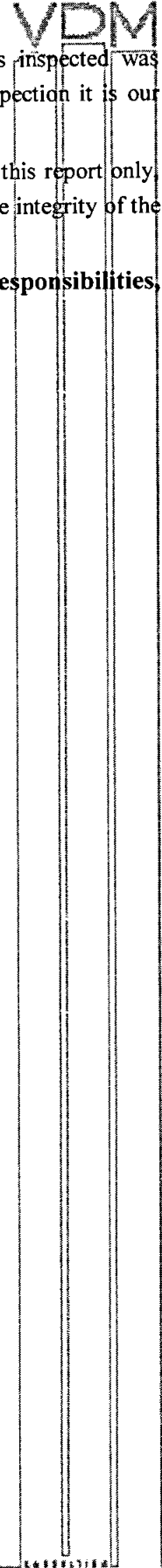
### 3. Conclusions

The structural condition of the existing dwelling footings and structural elements inspected was generally found to be satisfactory. Based on the analyses results and the visual inspection it is our opinion that the existing structure shall resist the proposed loads.

This analysis has been based on loads applied on areas inspected and mentioned in this report only any attempt to place these loads elsewhere shall required further analysis to ensure the integrity of the structure is maintain.

**This certificate shall not construe as relieving any other party of their responsibilities, liabilities, or contractual obligations.**

Mario F. Benítez, *(B.E.(Structural)), CPEng., MIEAust. (418917) MIPENZ*  
Senior Structural Engineer





# BASIX Certificate

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

## Alterations and Additions

Certificate number A94596

This certificate confirms that the proposed development will meet the NSW government's requirements for sustainability. 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 Alterations and Additions Definitions' dated 29/9/2006 published by Department of Planning. This document is available at [www.basix.nsw.gov.au](http://www.basix.nsw.gov.au)

Director General  
Date of issue Tuesday 30 November 2010



## Description of project

Project address	
Project name	Wallumatta
Street address	21 Wallumatta Road Newport 2106
Local Government Area	Pittwater Council
Plan type and number	Deposited Plan B184
Lot number	8
Section number	0
Project type	
Dwelling type	Separate dwelling house
Type of alteration and addition	My renovation work is valued at \$50 000 or more and includes a pool (and/or spa)

THIS PLAN / DOCUMENT FORMS  
PART OF FORM BUILDING  
CERTIFIERS CC / CDC

Pool and Spa	Show on DA Plans	Show on ICC/CDCC Plans & Specs	Certifier Check
<p><b>Rainwater tank</b></p> <p>The applicant must install a rainwater tank of at least 2100 litres on the site. This rainwater tank must meet and be installed in accordance with the requirements of all applicable regulatory authorities</p> <p>The applicant must configure the rainwater tank to collect rainwater runoff from at least 78 square metres of roof area</p> <p>The applicant must connect the rainwater tank to a tap located within 10 metres of the edge of the pool</p>	<p>✓</p>	<p>✓</p>	<p>✓</p>
<p><b>Outdoor swimming pool</b></p> <p>The swimming pool must be outdoors</p> <p>The swimming pool must not have a capacity greater than 50 kilolitres</p> <p>The applicant must install a pool pump liner for the swimming pool</p> <p>The applicant must not incorporate any heating system for the swimming pool that is part of this development</p>	<p>✓</p>	<p>✓</p>	<p>✓</p>

Fixtures and Systems	Show on DA/Plans	Show on CC/DOC Plans & Specs	Certificate Check
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**Lighting**

The applicant must ensure a minimum of 40% of new or altered light fixtures are fitted with fluorescent compact fluorescent or light emitting-diode (LED) lamps

✓

✓

**Fixtures**

The applicant must ensure new or altered showerheads have a flow rate no greater than 9 litres per minute or a 3 star water rating

✓

✓

The applicant must ensure new or altered toilets have a flow rate no greater than 4 litres per average flush or a minimum 3 star water rating

✓

✓

The applicant must ensure new or altered taps have a flow rate no greater than 9 litres per minute or minimum 3 star water rating

✓

Construction	Show on DA Plans	Show on CC/CD/ Plans	Ceiling Check

**Insulation requirements**

The applicant must construct the new or altered construction (floor(s), walls and ceilings/roofs) in accordance with the specifications listed in the table below except that a) additional insulation is not required where the area of new construction is less than 2m<sup>2</sup> b) insulation specified is not required for parts of altered construction where insulation already exists

Construction	Additional insulation required (R-value)	Other specifications	✓	✓	✓
suspended floor with open subfloor framed (R0.7)	R0.8 (down) (or R1.50 including construction)				
external wall framed (weatherboard fibro metal clad)	R1.30 (or R1.70 including construction)				
raked ceiling pitched/skillion roof framed	ceiling R1.74 (up) roof foil backed blanket (75 mm)	medium (solar absorptance 0.475 - 0.70)			

Glazing requirements	Show on DA Plans	Show on CC/DOC Plans	Certificate Check
	✓	✓	✓

**Windows and glazed doors**

The applicant must install the windows glazed doors and shading devices in accordance with the specifications listed in the table below  
 Relevant overshadowing specifications must be satisfied for each window and glazed door

The following requirements must also be satisfied in relation to each window and glazed door

Each window or glazed door with improved frames or polylytic low e glass or clear/air gap/clear glazing or toned/air gap/clear glazing must have a U-value and a Solar Heat Gain Coefficient (SHGC) no greater than that listed in the table below Total system U-values and SHGCs must be calculated in accordance with National Fenestration Rating Council (NFRC) conditions The description is provided for information only Alternative systems with complying U-value and SHGC may be substituted

For projections described in millimetres the leading edge of each eave pergola verandah balcony or awning must be no more than 500 mm above the head of the window or glazed door and no more than 2400 mm above the sill

For projections described as a ratio the ratio of the projection from the wall to the height above the window or glazed door sill must be at least that shown in the table below

Pergolas with polycarbonate roof or similar translucent material must have a shading coefficient of less than 0.35

Pergolas with fixed battens must have battens parallel to the window or glazed door above which they are situated unless the pergola also shades a perpendicular window The spacing between battens must not be more than 50 mm

Overshadowing buildings or vegetation must be of the height and distance from the centre and the base of the window and glazed door as specified in the overshadowing column in the table below

**Windows and glazed doors glazing requirements**

Window/door	Orientation	Area of glass (m <sup>2</sup> )	Overshadowing Height (m)	Overshadowing Distance (m)	Shading device	Frame and glass type	Show on DA Plans	Show on CC/DOC Plans	Certificate Check
W1	E	3.24	1.3	3.8	none	Improved aluminium single clear (U value 6.44 SHGC 0.75)	✓	✓	✓
W2	N	2.7	0	0	projection/height above sill ratio >=0.43	Improved aluminium single clear (U value 6.44 SHGC 0.75)	✓	✓	✓
W3	N	1.26	0	0	awning (adjustable) >=900 mm	Improved aluminium single clear (U-value	✓	✓	✓

Window description	Orientation	Area of glass (m <sup>2</sup> )	Overlapping Detail Distance (m)	Shading device	Frame and glass type	Shading device (Plans)	Shading device (Sections)
W4	E	1.8	1.3	3.8	6.44 SHGC 0.75) improved aluminium single clear (U-value 6.44 SHGC 0.75)		
W5	E	1.26	1.3	3.8	6.44 SHGC 0.75) improved aluminium single clear (U-value 6.44 SHGC 0.75)		
W6	S	8.64	0	0	improved aluminium single clear (U-value 6.44 SHGC 0.75) eave/verandah/pergola/balcony >=900 mm		

**Skylights:**

The applicant must install the skylights in accordance with the specifications listed in the table below.

The following requirements must also be satisfied in relation to each skylight

Each skylight may either match the description or have a U value and a Solar Heat Gain Coefficient (SHGC) no greater than that listed in the table below.

**Skylights glazing requirements**

Skylight description	Area of glazing (m <sup>2</sup> )	Shading device	Frame and glass type	Shading device (Plans)	Shading device (Sections)
S1	0.8	no shading	aluminium moulded plastic single clear (or U-value 6.21 SHGC 0.808)		



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 & 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 for the development may be issued

----- AH DESIGN -----

ANNA HENRY • 22 WANDEEN RD • CLAREVILLE NSW 2107

## Schedule of Colours

Proposed alterations & additions at  
21 Wallumatta Road  
Newport

for  
Mr. & Mrs. Hanks

THIS PLAN / DOCUMENT FORMS  
PART OF THE BUILDING  
CERTIFICATE CC / CPC




Specification

This schedule is to be read in conjunction with the enclosed plans.

Materials and Colours

Provide material and colours as set out in the following schedule

Items	Material and Description	Colour	Sample
ROOF	COLORBOND CUSTOMORB ROOF SHEETING ON BATTENS & INSULATION (SEE BASIX)	TO MATCH EXISTING WOODLAND GREY	
GUTTERING & DOWNPIPES	QUAD GUTTERING WITH ROUND DOWNPIPES & LEAFGUARDS	SEE ABOVE	SEE ABOVE
ROOF FASCIA & BARGE BOARDS	FINGERJOINTED PRE-PRIMED TIMBER FASCIA	TO MATCH EXISTING	
EAVES LINING	6mm F.C. SHEETING	SEE ABOVE	N/A
WINDOWS & DOORS	ALUMINIUM FRAMED FOR DETAILS - SEE BASIX	WHITE	N/A
CLADDING	WEATHERBOARDS TO MATCH EXISTING FIXED TO TIMBER STUD WALLS WITH INSULATION (SEE BASIX)	TO MATCH EXISTING	
MASONRY WALLS	CEMENT RENDERED OR STONEFACED BLOCKWORK	'DULUX' LINSEED OR EQUAL	



## Application Lodgement Summary

 Sydney  
**WATER**

Reference Number 8274089

Date Requested: Fri October 26 2012

**Agent** Reece Mona Vale, 10 Taronga Pl Mona Vale  
**Applicant** AJ HANKS G HANKS, 21 WALLUMATTA RD NEWPORT 2106  
**Property/Asset** 21 Wallumatta Rd, Newport 2106 (Aj Hanks G Hanks) PNum: 3460924  
 150 mm VC Sewer Main - (2808927) (WasteWater)  
**Product** Building Plan Approval Application

Charge	Product Cost	GST	Total
Building Plan Approval Application	\$16.71	\$0.00	\$16.71

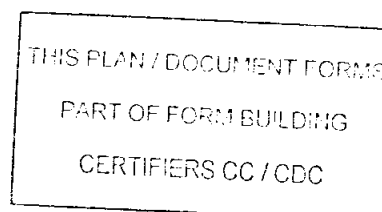
### Property Special Conditions for Plumbers

Boundary Trap Required	No
Watercharged/Tidal area	No
Partial Drainage area	No
Aggressive Soil area	No
Cast Iron Pipe area	Yes
Sewer Surcharge area	No
Minimum Gully Height area	No
Sewer Available	Yes
Connection Type	Gravity

You must contact Sydney Water to clarify the property special conditions where the property special conditions are not shown (yes or no), are shown as "unset", "unknown" or "not available" or if the proposed development is being built over more than one existing property.

**Please note that boundary traps must be fitted for all commercial and industrial properties and you must ensure that all plumbing/drainage and building works are carried out in accordance with the relevant codes and standards.**

A water meter is required to be fitted to the property during construction. You will need to ensure that your licensed plumber carries out this work in accordance to the relevant codes and standards.

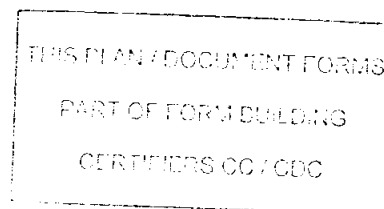


# Levy Online Payment Receipt



Thank you for using our Levy Online payment system. Your payment for this building application has been processed.

Applicant Name:	GLEND A HANKS
Levy Application Reference:	5035156
Application Type:	DA
Application No.:	N0090/12
Local Government Area/Government Authority:	PITTWATER COUNCIL
Site Address:	21 WALLUMATTA RD
	NEWPORT
	NSW
	2106
Value Of Work:	\$181,000
Levy Due:	\$633
Levy Payment:	\$633
Online Payment Ref.:	672210949
Payment Date:	26/10/2012 12:53:39 PM



This is the plan/spec. referred to in Form Building Certifiers Certificate  
 Certificate No. 2018-253  
 Plan Nos 501201-008 1/3-3/3 H/L  
 11/02/13  
 Craig Formosa BPB0124 DATED

I certify that work completed in accordance with these plans and specifications will comply with the regulations referred to in Section 81A(5) of the Environment Planning and Assessment Act 1979

CONSTRUCTION NOTES

GENERAL

- G1 These drawings are to be read in conjunction with the architectural drawings.
- G2 During construction the structure shall be maintained in a stable condition and no part shall be overstressed. Builder to ensure stability of existing structures in the vicinity of excavation works.
- G3 U.N.O. stands for ultimate not otherwise.
- G4 The structural elements shown on these drawings have been designed for the loads as follows:
  - a. Beams & Slabs - 4.0kPa
  - b. Beams & Slabs - 4.0kPa
  - c. Roofs & Garage - 0.25kPa
  - d. Elsewhere - 1.5/1.8/2.0kPa
  - e. as required in accordance with AS 1170
- G5 Dimensions shall not be obtained by scaling from the drawings. All setting out dimensions shall be verified and any discrepancies shall be referred to the Engineer prior to commencement of works.
- G6 Annual probabilities of exceedance - Importance level  
 The importance level for this structure has been ascertained using AS/NZS 1170.0 Structural design actions Part 0: General Principles and the Building Code of Australia (BCA) as described below:
  - Consequence of failure - Ordinary
  - Description - Medium consequence for loss of human life, or considerable economic, social or environmental consequences
  - Importance level - 2
- G7
  - Probability of Exceedance - 50 years
  - Design working life - 50 years
  - Importance level - 2
  - Wind (non-cyclonic) - 1/1000 (Category - N3)
  - Earthquake - 1/1000

CONCRETE

- C1 All workmanship and materials shall be in accordance with current editions of A S3900 except as varied by contract documents.
- C2 Cement to Type A U.N.O. Concrete components and quality shall be as follows:
 

Element	Fc MPa	Slump mm	Max Size Agg. (mm)	Density (kg/cu m)
Slabs	25	80	20	2400
Footings	25	80	20	2400
Structural concrete	32	80	20	2400
Columns	32	80	20	2400
Beams	32	80	20	2400
- C3 Clear cover to reinforcement unless otherwise shown shall be:
 

Element	Exposure	Exposed to weather or ground	Formed against masonry	Not formed against masonry
Slab on ground	A1	30	40	45
	B1	30	40	45
Slab on Slabs (ext)	A1	25	40	45
	B1	25	40	45
Beams	A1	25	40	45
	B1	25	40	45
Piers	A1	30	40	45
	B1	30	40	45
Footings	A1	40	60	45
	B1	40	60	45
- Notes:
  - Pumped concrete shall have a minimum slump of 170mm (225mm)
  - Flood curing of concrete 14 days minimum with NO curing agents

MECHANICALLY WELDED ALL CONCRETE

- C4 Mechanically welded all concrete in the forms to give maximum compaction without segregation.
- C5 Construction of concrete and concrete surfaces (between cover) unless shown on drawings or specifically approved by the Engineer.
- C6 Construction joints shall be properly formed and used only where shown or specifically approved by the Engineer.
- C7 No holes, chases or embedment of pipes, other than those shown on the structural drawings, shall be made in concrete members without prior approval by the Engineer.
- C8 Splices in reinforcement shall be made only in the positions shown or as otherwise approved by the Engineer.

INSPECTION BY ENGINEER

- 1. Bearing strata of all footings prior to concrete pour
- 2. Any reinforcement prior to concrete pour
- 3. Timber & Steel framing prior to casting and/or lining
- 4. CONTRACTOR'S SPECIALIST CONSULTANTS TO REQUIREMENTS FOR MANDATORY CRITICAL STAGE INSPECTIONS IN ACCORDANCE WITH RELEVANT REGULATIONS EFFECTIVE JULY 1, 2014

REINFORCEMENT

- R1 Lapped fabric splices shall be so made that the overlap, measured between outermost transverse wires of each sheet of fabric, is not less than the spacing of the wires plus 25mm.
- R2 Reinforcement fabric shall be to AS 1594 Galvanized where external
- R3 Symbols SL, WR, reinforcing fabric, R, structural grade, round bar, N, ribbed bar, 50MMPa structural grade, Y, ribbed bar, 410MMPa structural, BTM, bottom, T, top, TML, TMLM, trench mesh. Example of designation code for reinforcing bars:
 

No. of bars in group	bar grade and type
12N20 - 350	spacing in mm
- R4 All excavation and backfill shall be carried out neatly to the lines. Levels and grades specified in any section of drawings shall be maintained throughout the construction process.
- R5 Any backfill material required or specified shall be compacted generally to at least 95% of its effort.
- R6 Fill material beneath edge beams to be compacted in accordance with clause 6.4.2 of AS 2810-1986 and as specified in E2 above.
- R7 All top soil, vegetation and deleterious material shall be stripped from the building platform prior to the commencement of earthworks.
- R8 Foundations
  - F1 Footings have been designed for a uniform allowable bearing pressure of 96-192kPa as recommended on the Geotech report by VDM clause 6. Foundation material shall be approved for the pressure before placing concrete in footings.
  - F2 Footings must bear on undisturbed natural ground clear of organic material.
  - F3 Footings to be constructed and back filled as soon as practical following excavations to avoid softening by rain or drying out by exposure.
- R9 STRUCTURAL CONCRETE REINFORCEMENT STEELWORK
  - S1 All reinforcement is represented diagrammatically. It is not necessarily shown in true projection.
  - S2 Reinforcement shall be provided in accordance with the drawings.
  - S3 Reinforcement shall be provided in accordance with the drawings.
  - S4 Welding of reinforcement is not permitted unless shown on the structural drawings.
  - S5 U.N.O. all structural steel work bearing on masonry to be bedded on 20mm thick and full width non-shrinkable cement mortar ground pad.
  - S6 Except where steelwork is concrete encased or where noted otherwise all structural steelwork to be Galvalume Steel. Should welding in-situ is required on any galvanneal material the attached area MUST be painted/coated using galvanneal paint in accordance with AS/NZS 4680.
  - S7 Reinforcement shall be checked workshop drawing to be submitted to the Engineer and approval obtained in writing from him/her before fabrication is commenced. Approval covers structural sufficiency of joints and members and not dimensioning accuracy.
  - S8 Trench mesh shall be spaced where necessary by a lap of 500mm. All cross wires to trench mesh shall be cut flush with outer main wires.
  - S9 A1 reinforcement shall be supported @ 75mm maximum centres to maintain the noninverted position and covers. Reinforcement shall be tied at alternate intersections.
  - S10 Spacing in reinforcement shall be made in accordance with the provisions of Table 13.1.2.2.A of AS3600-2000 or in accordance with the following table:
 

Bar Size (in mm)	N12	N16	N20	N24	N28	N32
Splice Length (in mm)	400	600	800	1200	1200	1200
- R10 MAASURY
  - M1 Provide sliding surface consisting of 2 layers of galvanneal iron sheets with graphite grease in between top and bottom of all load bearing masonry walls in contact with suspended slabs. Prior to application of sliding surface the concrete or masonry shall be wet and smooth.
  - M2 Bricks used in load bearing construction shall have a minimum compressive strength (in per AS 3700) of 20 MPa unless otherwise noted.
  - M3 Provide 12mm polystyrene bond breaker between vertical face of masonry walls and concrete.

STRUCTURAL TIMBER

- T1 All workmanship and materials to be in accordance with current editions of AS 1720 and AS 1804.
- T2 All timber to be minimum stress grade F7 U.N.O. All hardwood to be minimum stress grade F14 U.N.O.
- T3 Provide double joints around openings for under walls where U.N.O.
- T4 External timber to be durability class 1 or 2.
- T5 Treat all exposed end ends with Resol by Proton to manufacturer's specifications to achieve required hazard level exposure classification.
- T6 Hot dip galvanized nails/screws to be used with all the timber connections.
- T7 All holes for bolts to be sized size. Washers shall be 3.0mm thickness (min) and at least 2 J lines the bolt diameter. All bolts shall be M16 Grade 4.8 U.N.O.
- T8 Hot dip galvanized nails/screws to be used with all the timber connections.
- T9 Blockwork
  - B1 Where horizontal reinforcement is used, special block units with recessed webs are to be provided.
  - B2 Mortar shall be composed of one part cement, one part lime and three parts sand.
  - B3 All openings at points to be recessed and removed at bottom of blocks through clean out openings prior to filling all cores.
  - B4 Where vertical reinforcement is to be provided in both faces, bars are to be located in alternate courses.
  - B5 Total cover to outside of blockwork shall be 50mm.
  - B6 Vertical & horizontal bars shall be galv. & if inspection reveals the vertical steel cannot be placed accurately the wall must be demolished.
  - B7 Wall bars must be accurately positioned by templates or similar means. Starter bars must be approved by the Engineer.
  - B8 Vertical bars shall be tied to starter bars through inspection openings at the base of the wall & also accurately fixed in position at the top by an appropriate method.
  - B9 Steel shall be accurately placed and firmly held in position to a tolerance of 10mm
  - B10 Steel shall be compacted by watering or rodding
- T10 STRUCTURAL STEELWORK
  - S1 All workmanship and materials to be in accordance with AS 4100, AS 1554 and for tubular
  - S2 Unless otherwise noted all structural steel shall be Fy = 300MPa in accordance with AS 3679.
  - S3 Unless otherwise noted all structural steel shall be Fy = 300MPa in accordance with AS 3679.
  - S4 Bolt designation
    - a. 4.8S - commercial bolts Grade 4.8, 8.8, 8.9, 9.8, 10.9, 12.9, 14.9, 17.9, 20.9
    - b. 8.8S - high strength structural bolts Grade 8.8, 8.9, 9.8, 10.9, 12.9, 14.9, 17.9, 20.9
    - c. bearing high strength structural bolts Grade 8.8, 10.9, 12.9, 14.9, 17.9, 20.9
    - d. 8.8TF - high strength structural bolts Grade 8.8, fully tensioned to AS 1511 and acting as a bearing pin.
  - S5 All welds to be min. 6.0mm continuous full U.N.O. and welding to be in accordance with AS 1554.
  - S6 U.N.O. all structural steel work bearing on masonry to be bedded on 20mm thick and full width non-shrinkable cement mortar ground pad.
  - S7 Except where steelwork is concrete encased, used internally or where noted otherwise all structural steelwork shall be Galvalume Steel. Should welding in-situ is required on any galvanneal material the attached area MUST be painted/coated using galvanneal paint in accordance with AS/NZS 4680.
  - S8 Two copies of checked workshop drawing to be submitted to the Engineer and approval obtained in writing from him/her before fabrication is commenced. Approval covers structural sufficiency of joints and members and not dimensioning accuracy.
  - S9 Rotted steel sections including steel plates shall comply with AS 1539-1988
  - S10 U.N.O. all welds shall be category SP using E41xx electrodes. All but welds shall be complete penetration edge joint (EJ) butt joint stainless steel base plates shall be completed by the contractor using high strength, non-shrinkable mortar.
  - S11 Pullin bolts shall be M12 - 4.8S
  - S12 Steel work shall have one of the following grades of corrosion protection:
    - a. thoroughly cleaned wire brushing, followed by two coats of zinc phosphate primer equivalent to Dulux Luprima applied by hand using brushes to achieve a total dry film thickness (DFT) of 70um
    - b. Preparation blast clean to a minimum standard class 2.5 in accordance with AS 1627 Part 4.
    - c. Primer 2-pack epoxy phospholate at dft of 75um (Dulux Dupon P-4)
    - d. Finish coat 2-pack epoxy high gloss acrylic at dft of 75um (e.g. Dulux Acrythane 1 P) in an approve colour.
    - e. Hot dip galvanneal (zinc) coating is compromised by walking, bolting or damage.
    - f. Where galvanneal (zinc) coating is compromised by walking, bolting or damage, hot dip galvanneal (zinc) coating shall be applied to the affected surface.
    - d. As specified by others e.g. architect, etc.

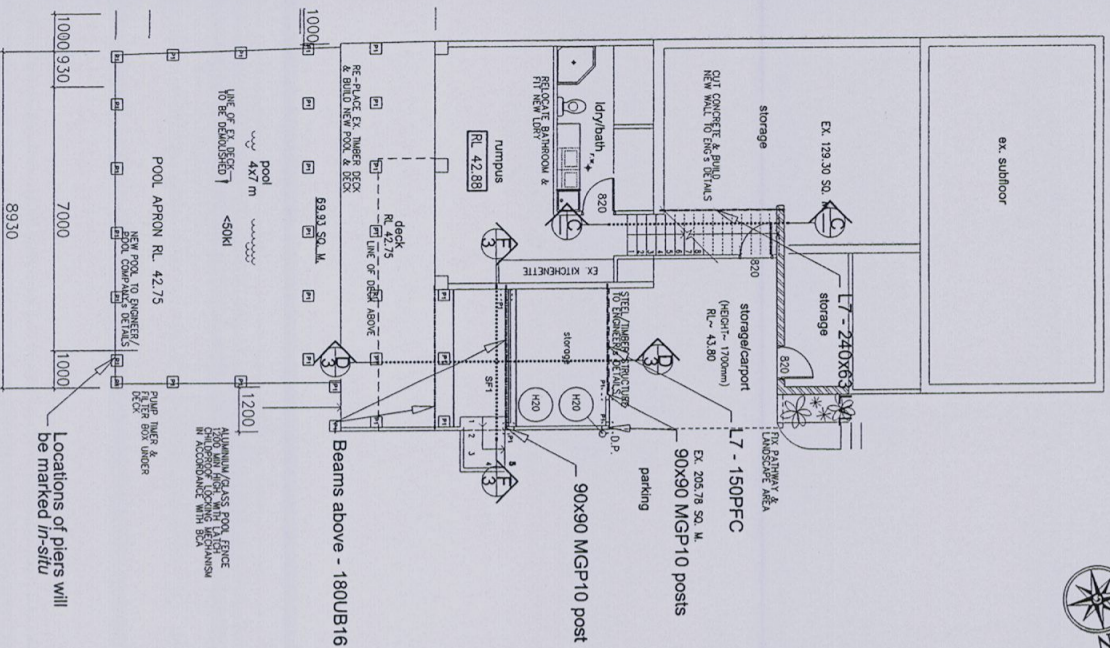
REGISTERED PROFESSIONAL ENGINEER

MAHO F. BENNETT, BE (Struct) MEASUR, CPENG, (418917) WPERNZ (111943)  
 I am appropriately qualified to certify this component of the project. In development of signed records of the BCA (Building Code of Australia), AS 1170.1, AS 1170.2, AS 1884, AS 1720, AS 1554 & AS 4100

DRAWINGS

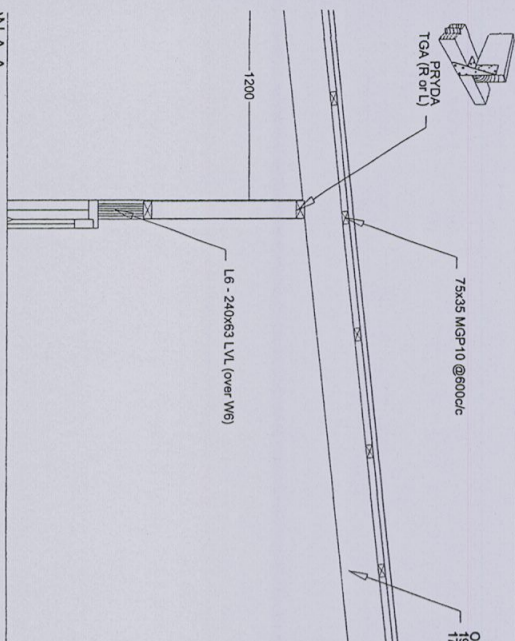
1. CONSTRUCTION NOTES
2. BASEMENT & GROUND FLOOR - PLAN VIEW - SUSPENDED SLABS & SECTIONS
3. UPPER FLOOR + ROOFING - PLAN VIEW - SUSPENDED SLAB, FRAMING + SECTIONS

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 Approved By: *Mahomed S. Bennett*  
 Date: August 2012  
 For: Ms. Ghazala Haidar  
 21 Wallanatha Rd  
 Newport NSW 2106  
 CONSTRUCTION NOTES  
 Scale: 1/3  
 Date: 1/3



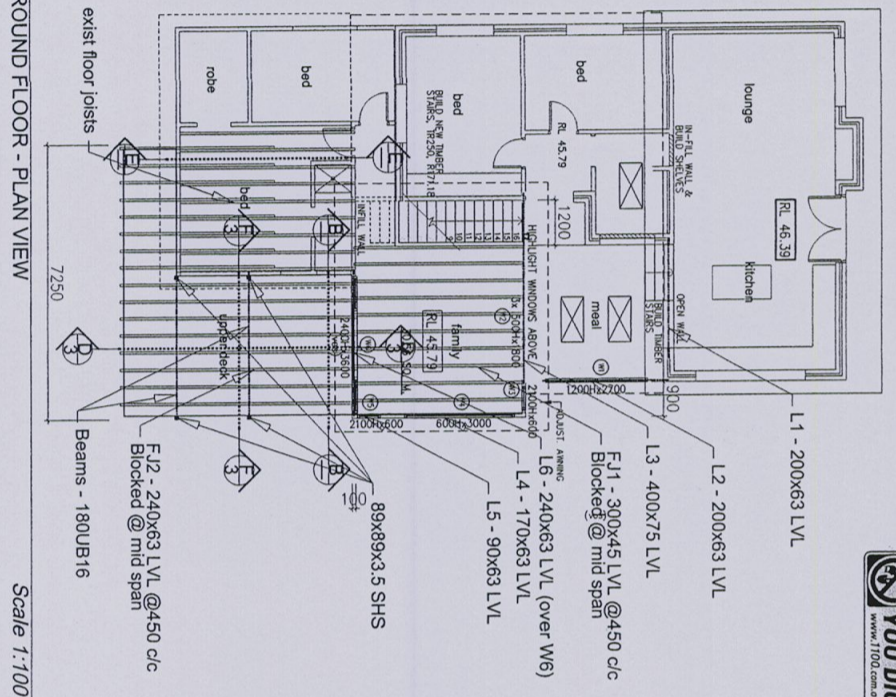
GROUND FLOOR - PLAN VIEW

Scale 1:100



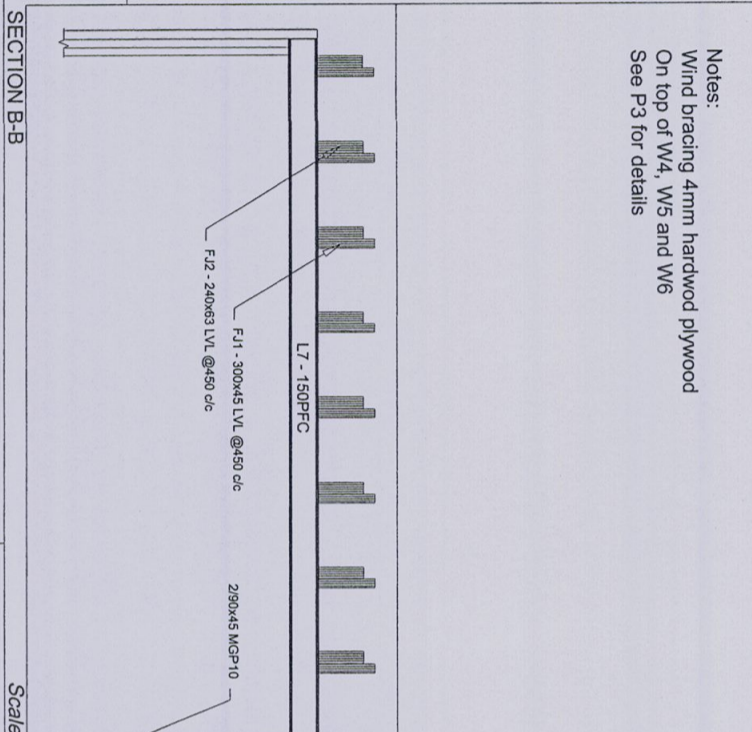
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Scale 1:20 SECTION C-C



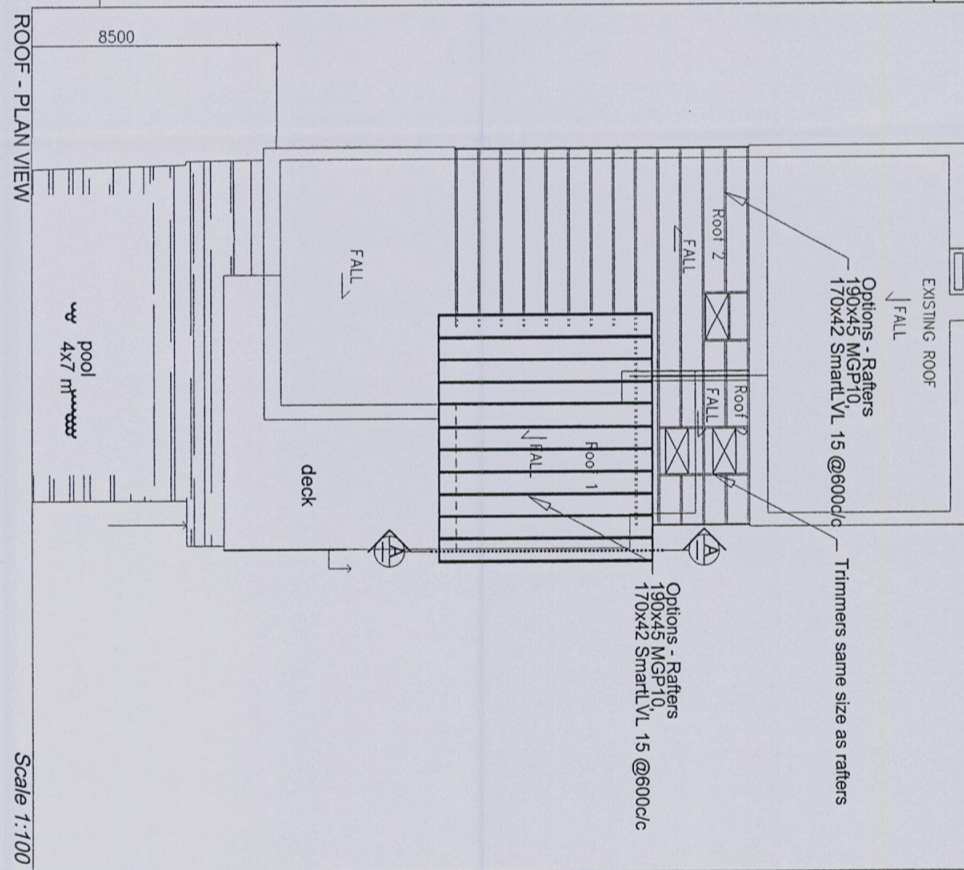
GROUND FLOOR - PLAN VIEW

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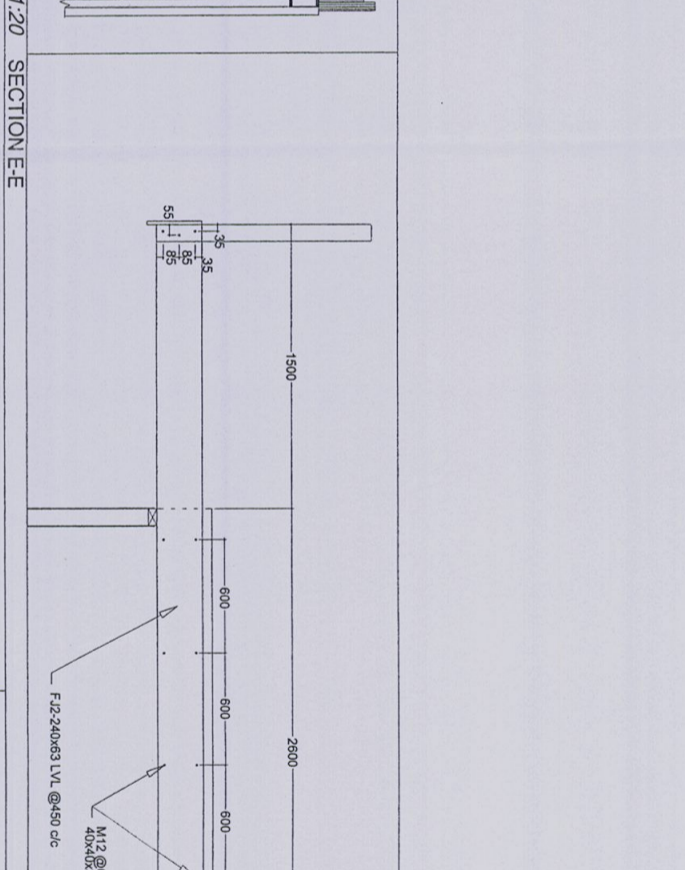
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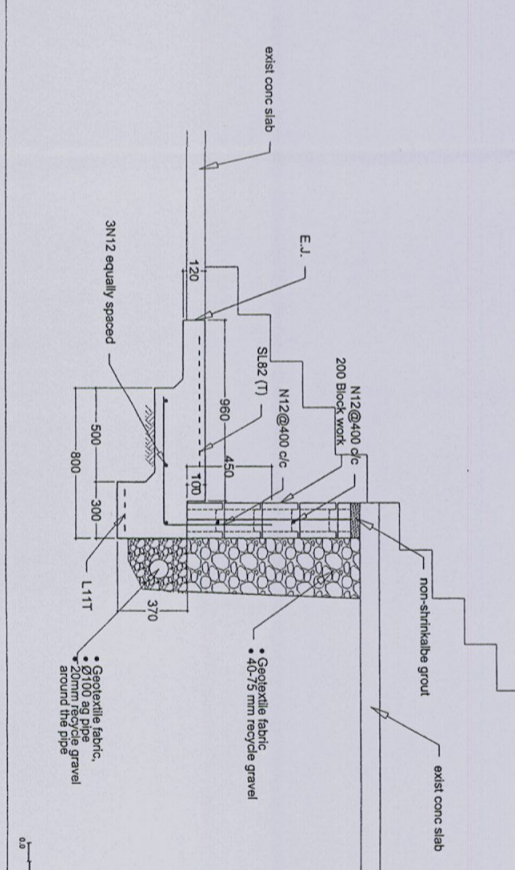


ROOF - PLAN VIEW

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Scale 1:20



Scale 1:20

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DATE	DESCRIPTION	ISSUE
21/08/2012	ADDITONS & ALTERATIONS for: Ms Glenda HANKS 21 Wallumata St Newport NSW 2106	A
21/08/2012	GF FF & ROOF PLAN VIEW & SECTIONS	A1

PROJECT: ADDITONS & ALTERATIONS  
for: Ms Glenda HANKS  
21 Wallumata St  
Newport NSW 2106

SCALE: 1:20  
1:100

DATE: AUGUST 2012

PROJECT: GF FF & ROOF  
PLAN VIEW & SECTIONS

SCALE: 1:20  
1:100

DATE: AUGUST 2012

PROJECT: ADDITONS & ALTERATIONS  
for: Ms Glenda HANKS  
21 Wallumata St  
Newport NSW 2106

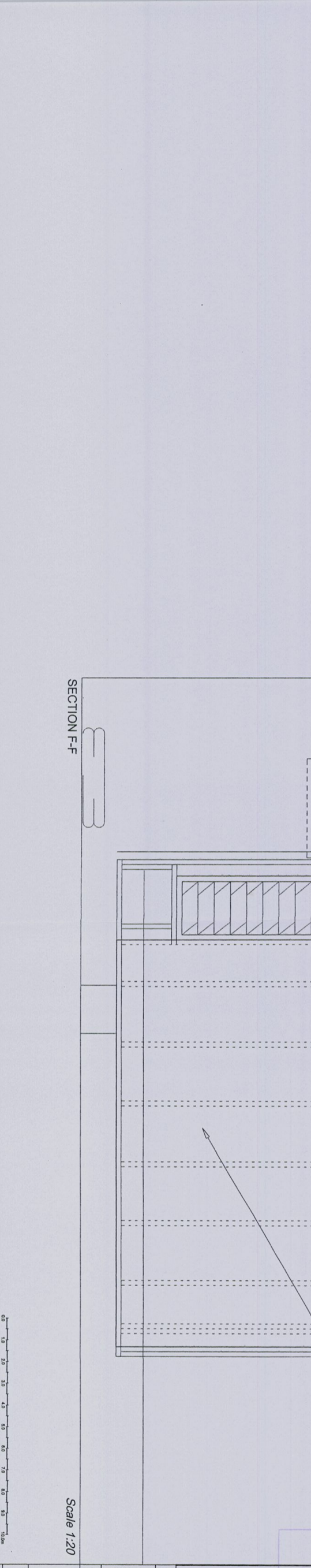
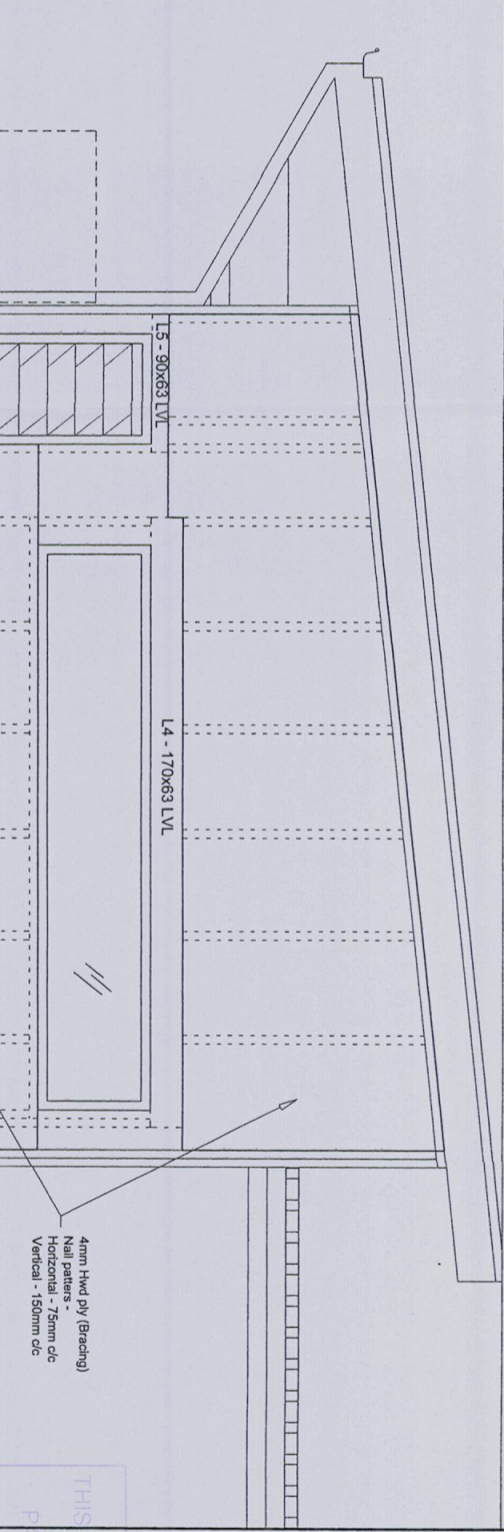
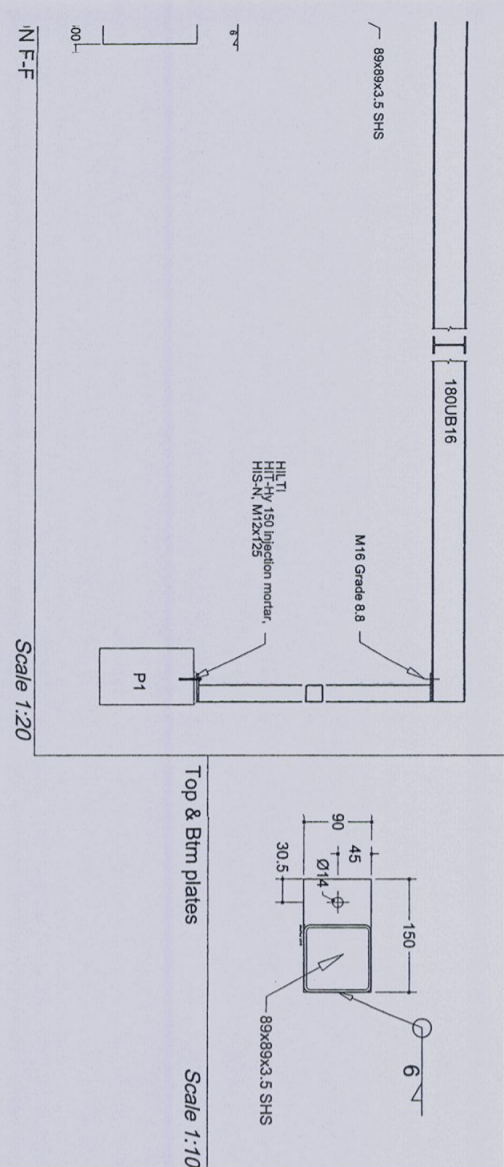
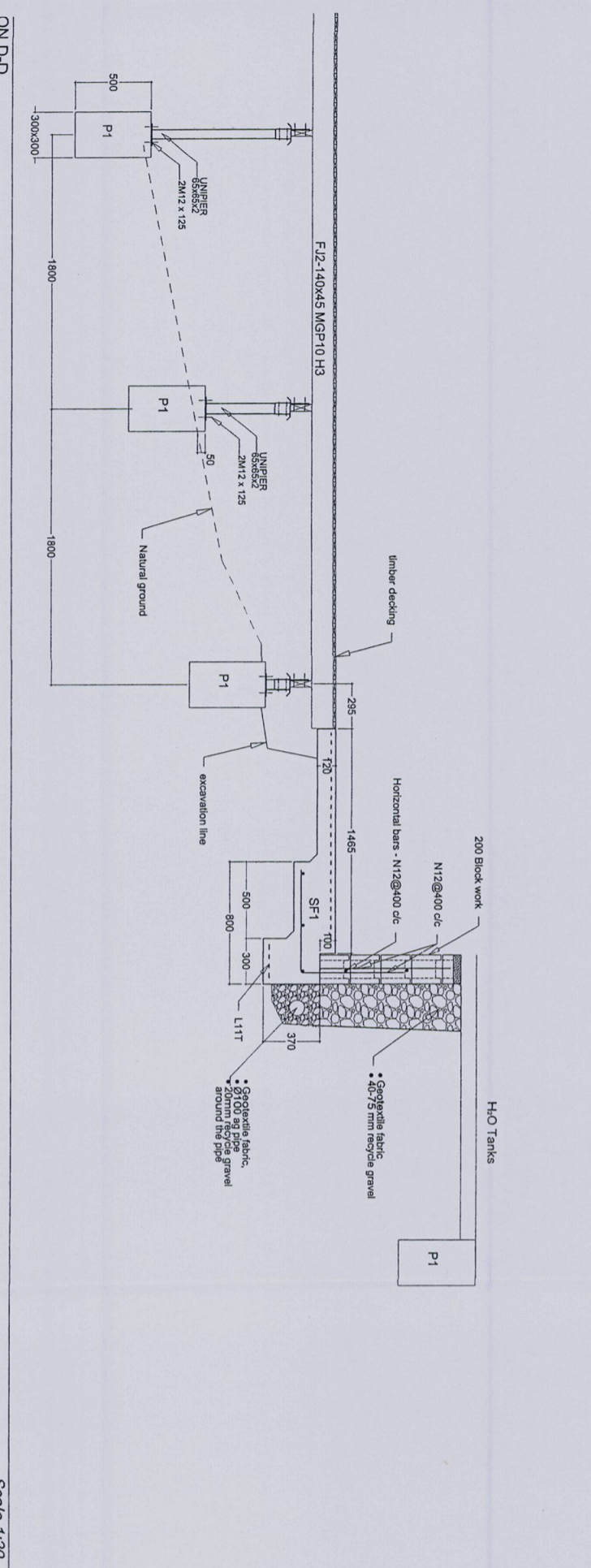
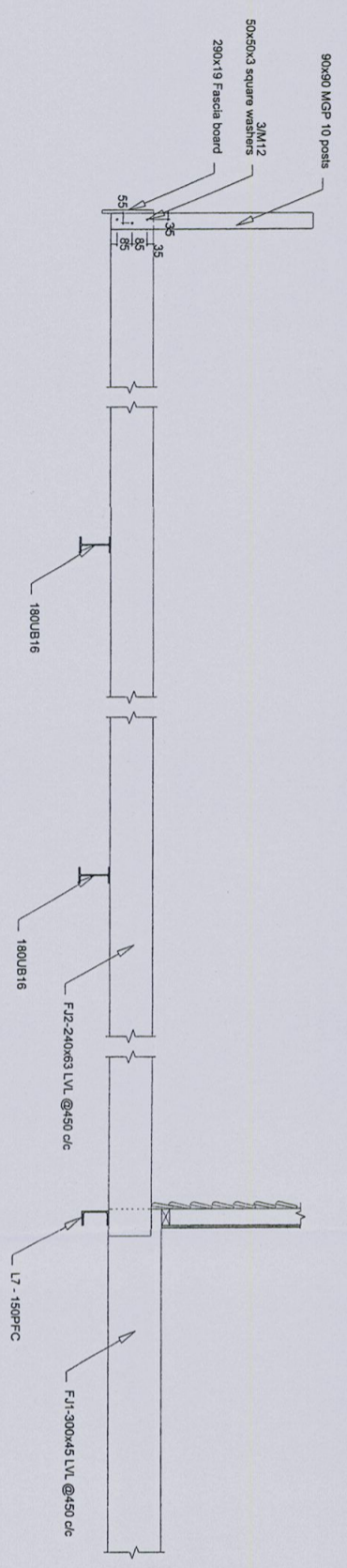
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DATE: AUGUST 2012

PROJECT: GF FF & ROOF  
PLAN VIEW & SECTIONS

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DATE: AUGUST 2012



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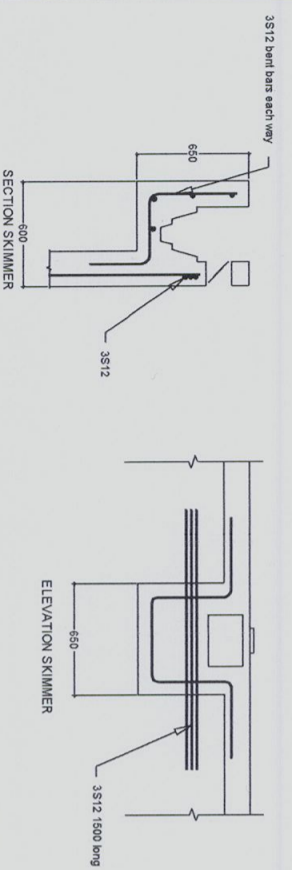
*Melanie J. Bantley*  
 (BES) Civil, Mech, Elect, (14917), (WEN) (11943)

DATE: August 2012  
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 A1

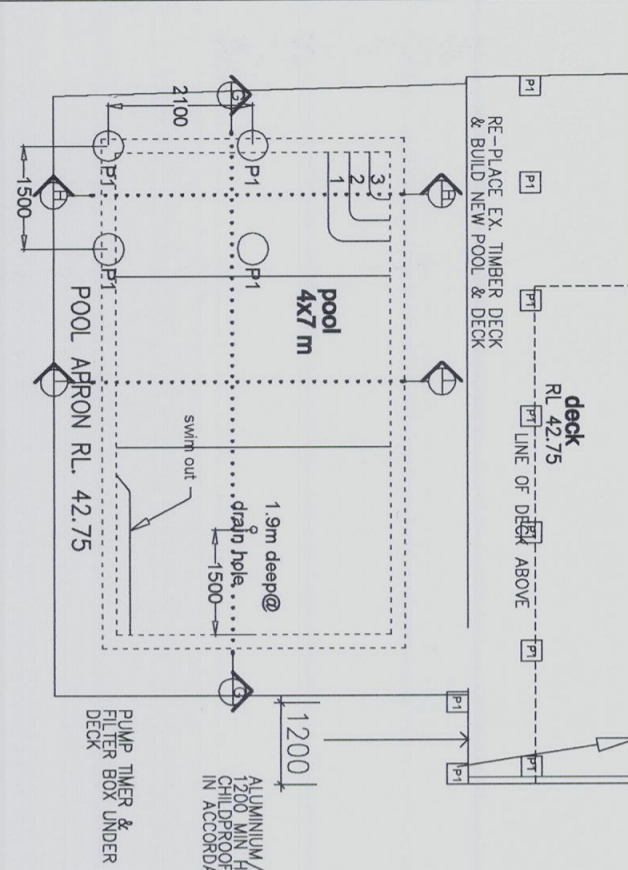
PROJECT: ADDITIONS & ALTERATIONS  
 for: Ms Glenda HANKS  
 21 Wallumatta St  
 Newport NSW 2106

DETAILS: GROUND & FIRST FLOOR  
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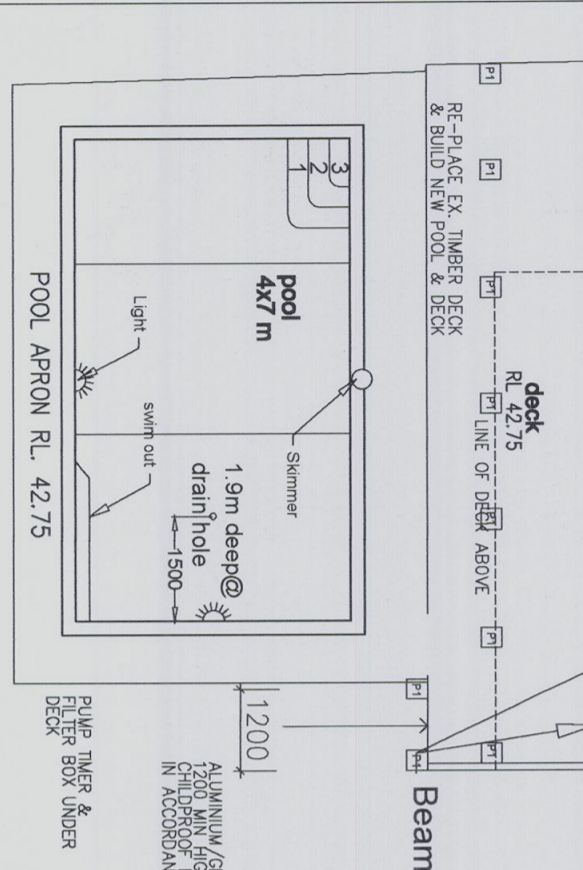
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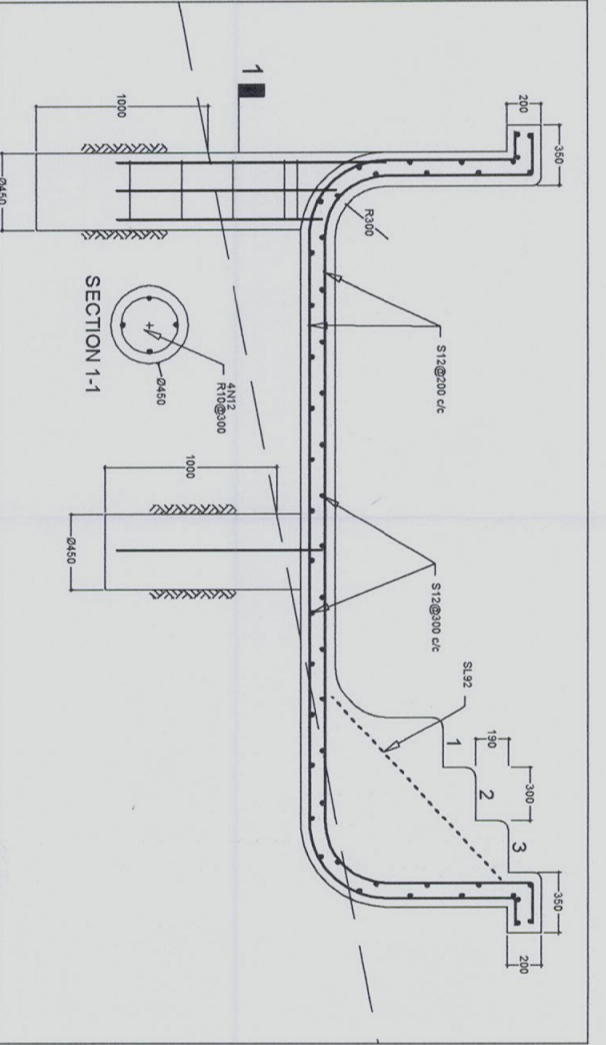
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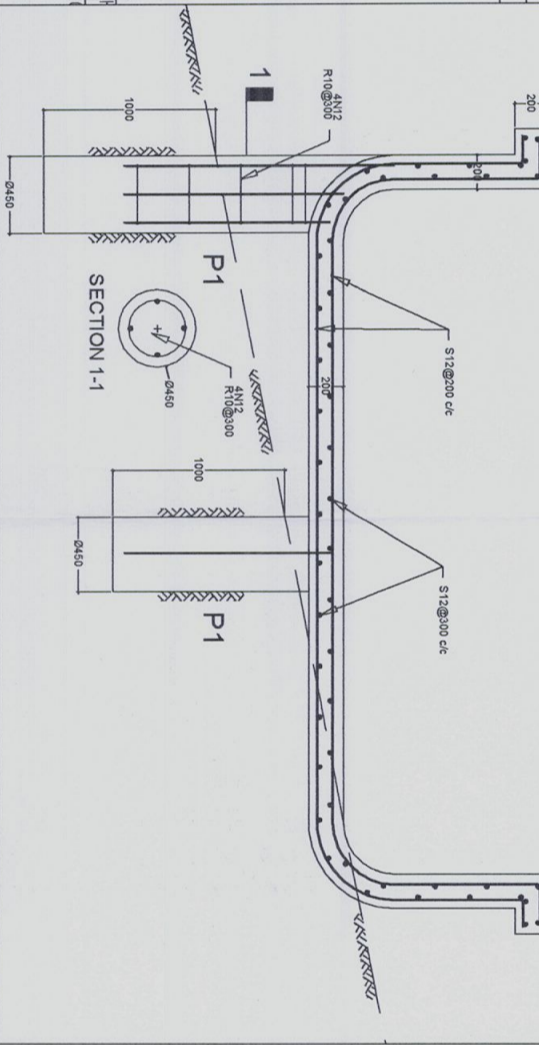
swimming pool - plan view  
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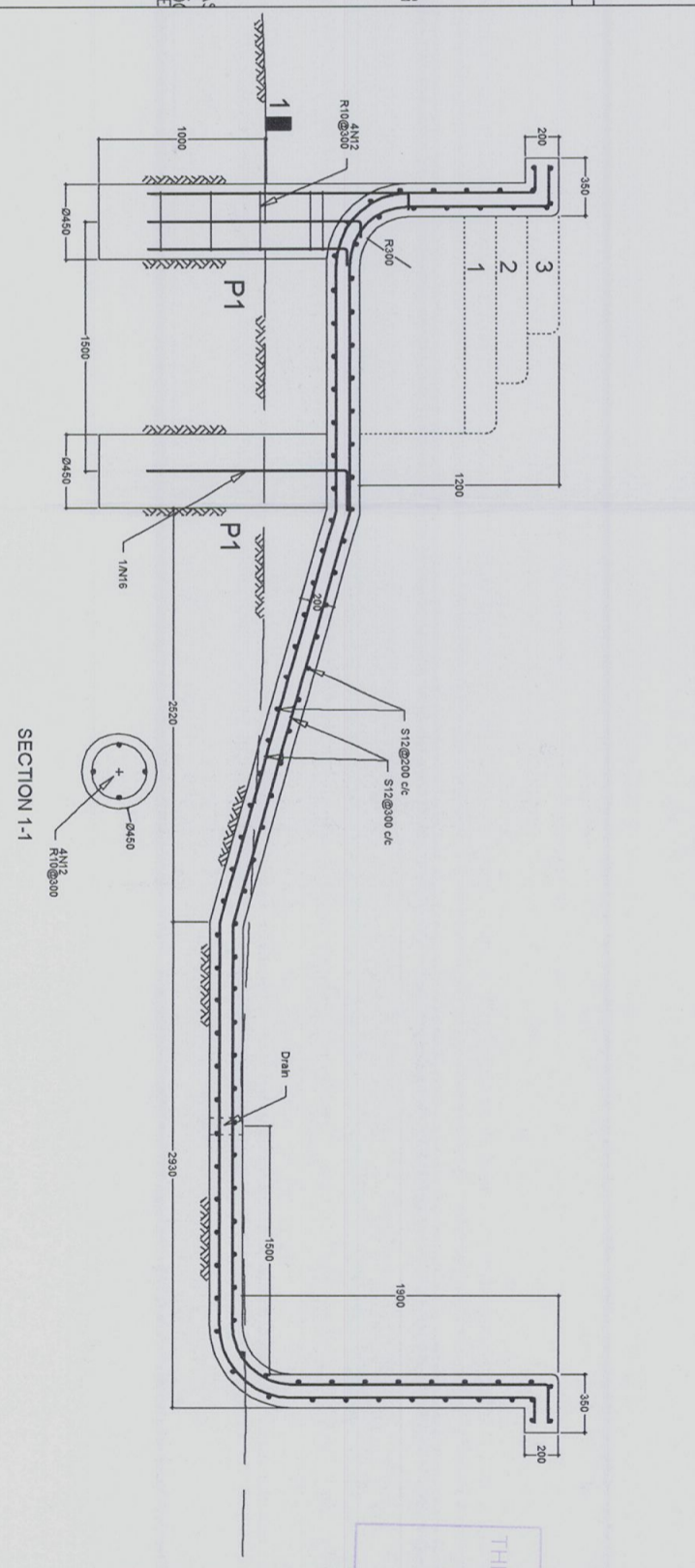
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SECTION I-I  
 Scale 1:20



SECTION H-H  
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SECTION G-G  
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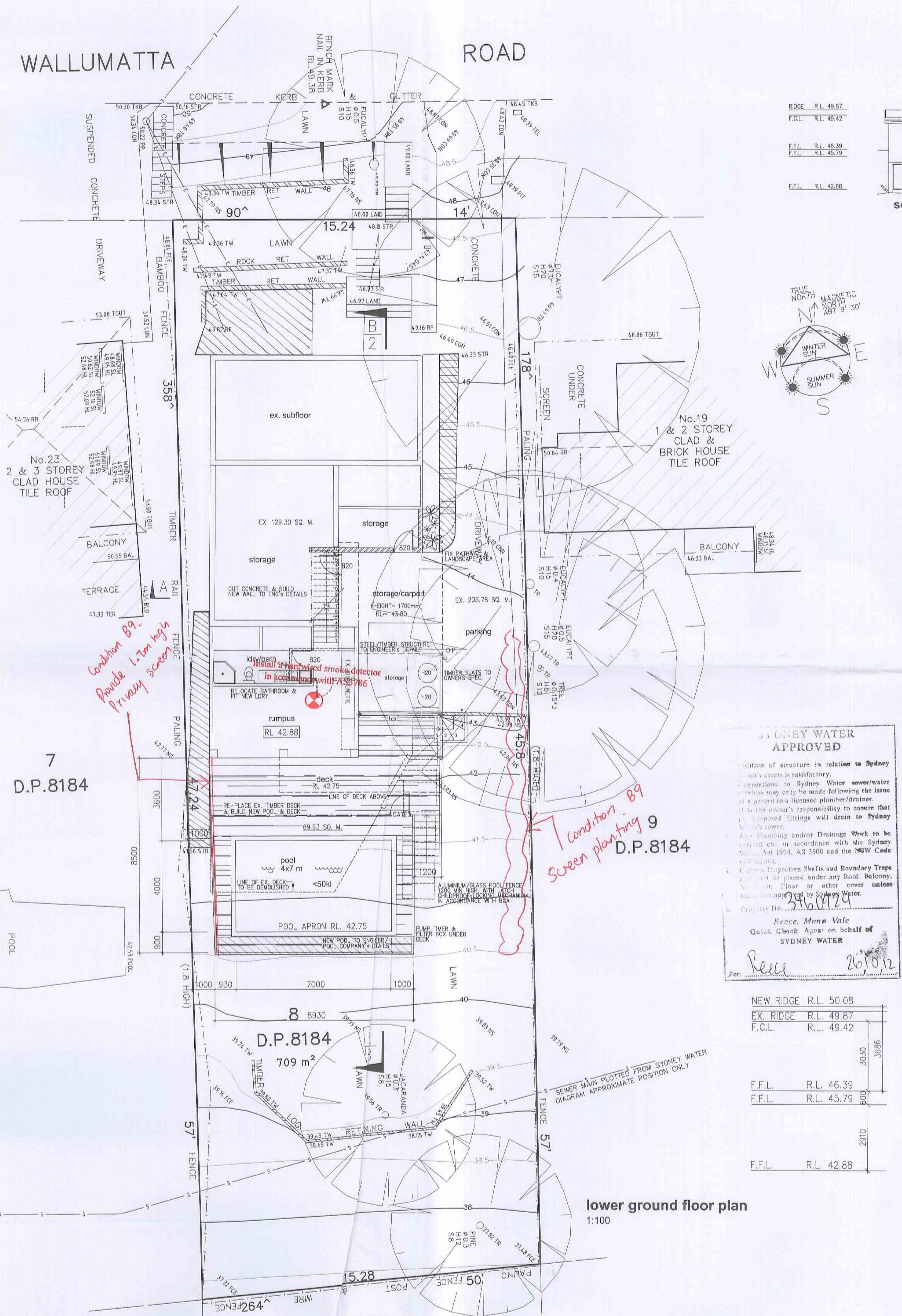
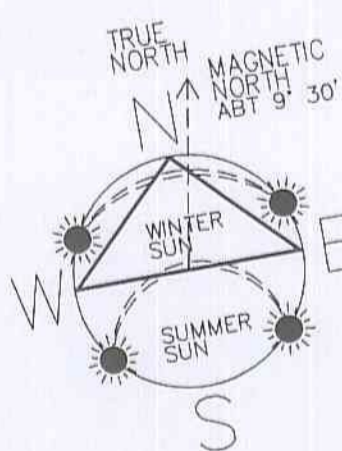
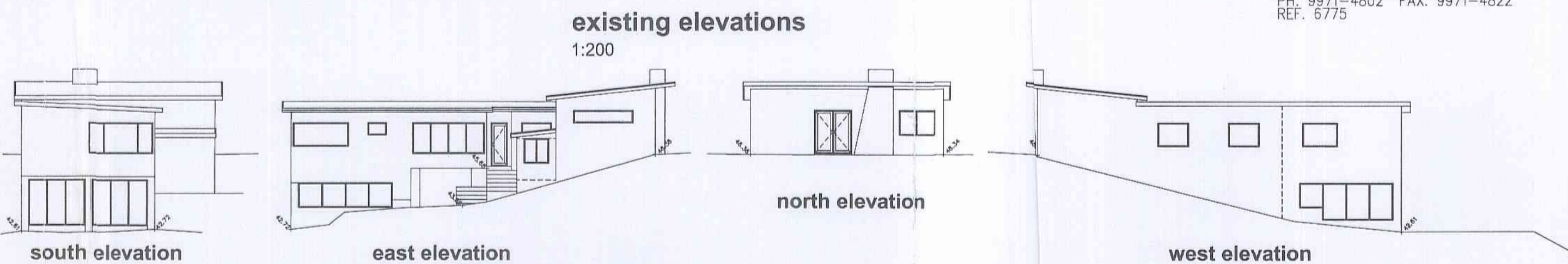
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11/11/2012	REVISION 03	M. HAWKS
11/11/2012	REVISION 04	M. HAWKS
11/11/2012	REVISION 05	M. HAWKS
11/11/2012	REVISION 06	M. HAWKS
11/11/2012	REVISION 07	M. HAWKS
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11/11/2012	REVISION 57	M. HAWKS
11/11/2012	REVISION 58	M. HAWKS
11/11/2012	REVISION 59	M. HAWKS
11/11/2012	REVISION 60	M. HAWKS
11/11/2012	REVISION 61	M. HAWKS
11/11/2012	REVISION 62	M. HAWKS
11/11/2012	REVISION 63	M. HAWKS
11/11/2012	REVISION 64	M. HAWKS
11/11/2012	REVISION 65	M. HAWKS
11/11/2012	REVISION 66	M. HAWKS
11/11/2012	REVISION 67	M. HAWKS
11/11/2012	REVISION 68	M. HAWKS
11/11/2012	REVISION 69	M. HAWKS
11/11/2012	REVISION 70	M. HAWKS
11/11/2012	REVISION 71	M. HAWKS
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11/11/2012	REVISION 98	M. HAWKS
11/11/2012	REVISION 99	M. HAWKS
11/11/2012	REVISION 100	M. HAWKS

WALLUMATTA

ROAD

SURVEY INFORMATION PROVIDED BY:-  
C.M.S. SURVEYORS PTY. LTD.  
P.O. BOX 46  
DEE WHY N.S.W. 2099  
PH: 9971-4802 FAX: 9971-4822  
REF: 5775

RISE	R.L. 49.87
F.C.L.	R.L. 49.42
F.F.L.	R.L. 46.39
F.F.L.	R.L. 45.79
F.F.L.	R.L. 42.88



**SYDNEY WATER APPROVED**

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

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

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

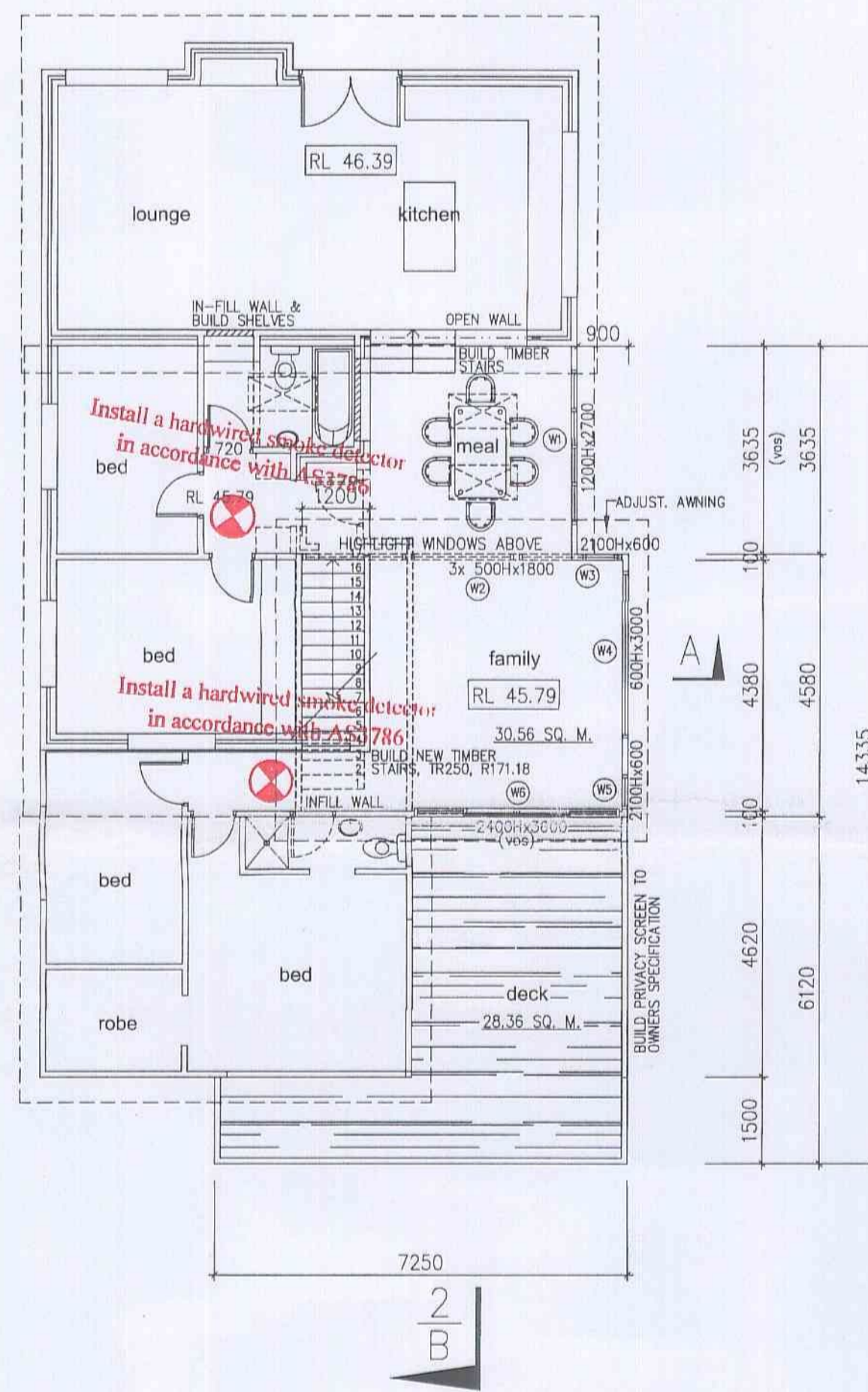
All plumbing and/or drainage work to be carried out in accordance with the Sydney Water Act 1994, AS 3500 and the NSW Code of Practice.

Current Inspection Sheets and Boundary Traps must be placed under any Roof, Balcony, Verandah, Floor or other cover unless otherwise specified by Sydney Water.

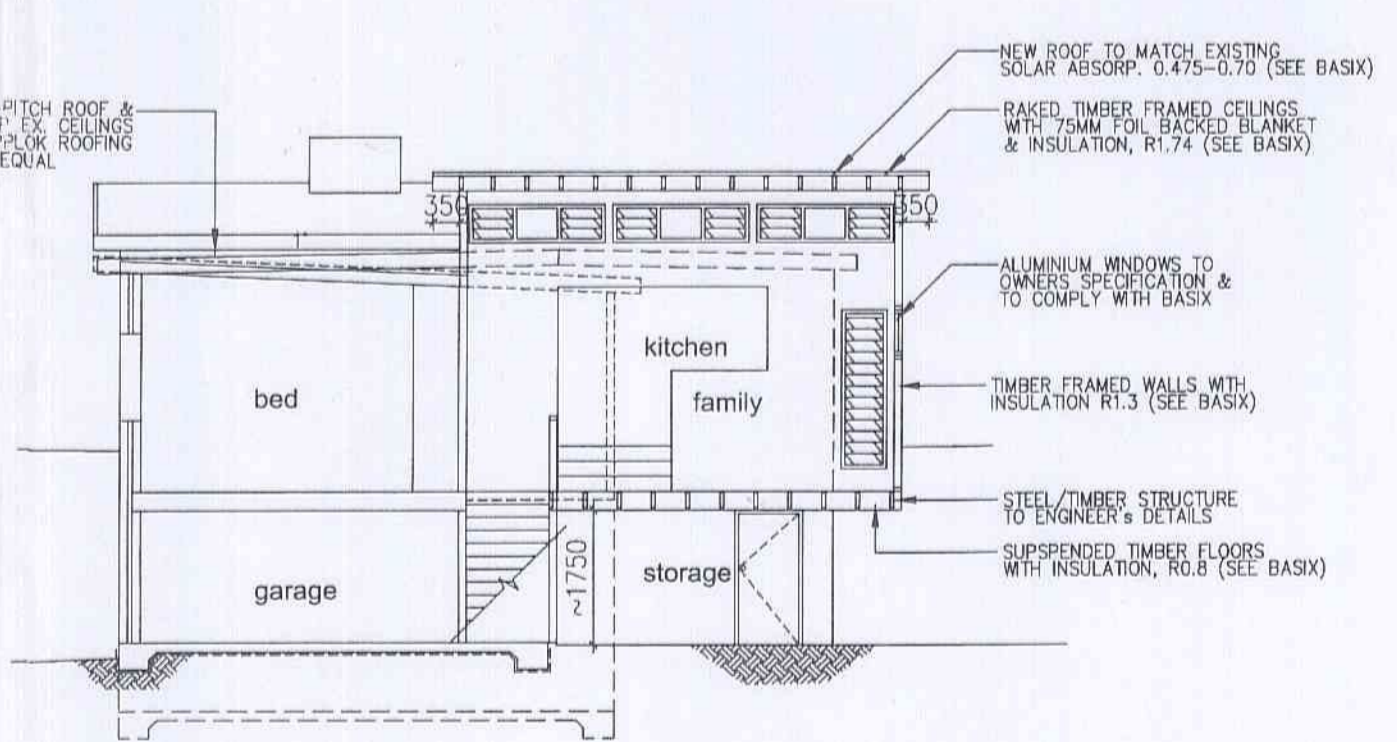
Property No. 21/11/10

Recd. Mona Vale  
Orelia Check Apart on behalf of  
SYDNEY WATER

Per: *Reu* 20/10/12



ground floor plan 1:100



section A-A 1:100

NEWPORT LOCALITY  
ALLOWABLE SITE COVERAGE 40% + 6% LANDSCAPING

**SITE CALCULATIONS**

SITE AREA	709.00 SQ. M
EXISTING FLOOR AREA	129.30 SQ. M
DRIVEWAY & CONC. AREA	205.78 SQ. M
EX. TOTAL BUILT UPON AREA	335.08 SQ. M
	47%

**PROPOSED:**

EXISTING FLOOR AREA	129.30 SQ. M
EXISTING DRIVEWAY AREA	63.17 SQ. M
EXISTING PAVED/DECKED AREA	12.00 SQ. M*
NEW FLOOR AREA	30.56 SQ. M
NEW UPPER DECK AREA	28.36 SQ. M
NEW POOL & DECK AREA	69.93 SQ. M*
TOTAL BUILT UPON AREA	333.32 SQ. M
	40% + 7%

CARPARKING 2 CARS

\* INCLUDED IN THE 6% LANDSCAPED AREA (D1.14)

- NOTES**
1. ALL DIMENSIONS ARE IN MILLIMETRES U.N.O. AND SHOULD BE VERIFIED ON SITE BY THE BUILDER WHO WILL BE RESPONSIBLE FOR THE ACCURATE SETTING OUT OF THE JOB. ANY DISCREPANCIES MUST BE RESOLVED PRIOR TO COMMENCEMENT OF WORK.
  2. ALL CONSTRUCTION IS TO COMPLY WITH THE BUILDING CODE OF AUSTRALIA (BCA) AND TO THE LOCAL COUNCIL REQUIREMENTS AND OTHER AUTHORITIES CONCERNED.
  3. ALL DIMENSIONS THAT RELATE TO SITE BOUNDARIES AND CASSEMENTS ARE SUBJECT TO VERIFICATION BY A SITE SURVEY.
  4. IT IS THE OWNERS RESPONSIBILITY TO DETERMINE THE LOCATION OF ANY SEWER MAINS OR EASEMENTS OR ANY OTHER CONDITIONS WHICH WILL AFFECT THE BUILDING DESIGN.
  5. FIGURED DIMENSIONS TAKE PRECEDENCE OVER SCALED READINGS.
  6. ALL TIMBER CONSTRUCTION IS TO BE IN ACCORDANCE WITH THE 'NATIONAL TIMBER FRAMING CODE' A.S.1684.
  7. ROOF WATER AND SUB SOIL DRAINAGE TO BE DISPOSED OF IN THE APPROVED MANNER OR AS DIRECTED BY LOCAL INSPECTORS.
  8. FINAL POSITION OF ALL COMPASSES TO BE DECIDED BY ROOF PLUMBER.
  9. ANY STRUCTURAL DETAILS OR DESIGN IS TO BE SUPPLIED BY A STRUCTURAL ENGINEER.
  10. ALL LEVELS ARE TO AUSTRALIAN HEIGHT DATUM.
  11. ALL ELECTRICAL, POWER & LIGHT OUTLETS AS DETERMINED BY OWNER.
  12. MAKE GOOD & REPAIR ALL EXISTING FINISHES AFFECTED BY NEW WORK. RE-USE EXISTING MATERIALS WHERE POSSIBLE.
  13. ANY DETAILING IN ADDITION TO WHAT IS SUPPLIED ON THIS DRAWING SHALL BE RESOLVED BETWEEN THE OWNER & THE BUILDER.

29/11/10	issue to client for council approval
mark	date
	amendments.

project:  
Alterations & additions for  
**Mr. & Mrs. Hanks**  
at 21 Wallumatta Road  
NEWPORT NSW 2106

This is the plan/spec. referred to in Form Building Certificate Certificate No. 2018-253  
Plan No. A-935 sheet 1 of 2  
11/02/13  
Clay Formosa BPB0124 DATED

**WORKING DRAWINGS- Existing elevations, floor plans & section**

scale:  
1:100

Draftperson:

**WALLUMATTA COUNCIL**

**APPROVED DEVELOPMENT CONSENT PLANS**  
NOV. 2010

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

**ANNA HENRY AH DESIGN**  
WORKS ON THE ADJACENT ROAD RESERVE.  
22 WANDEEN ROAD, CLAREVILLE NSW 2107 COUNCIL RESERVE.  
T. 02 9918 5790  
E. ahdesign@email.com

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project no.	sheet no.	of
<b>A-935</b>	<b>1</b>	<b>2</b>
	amendments.	-



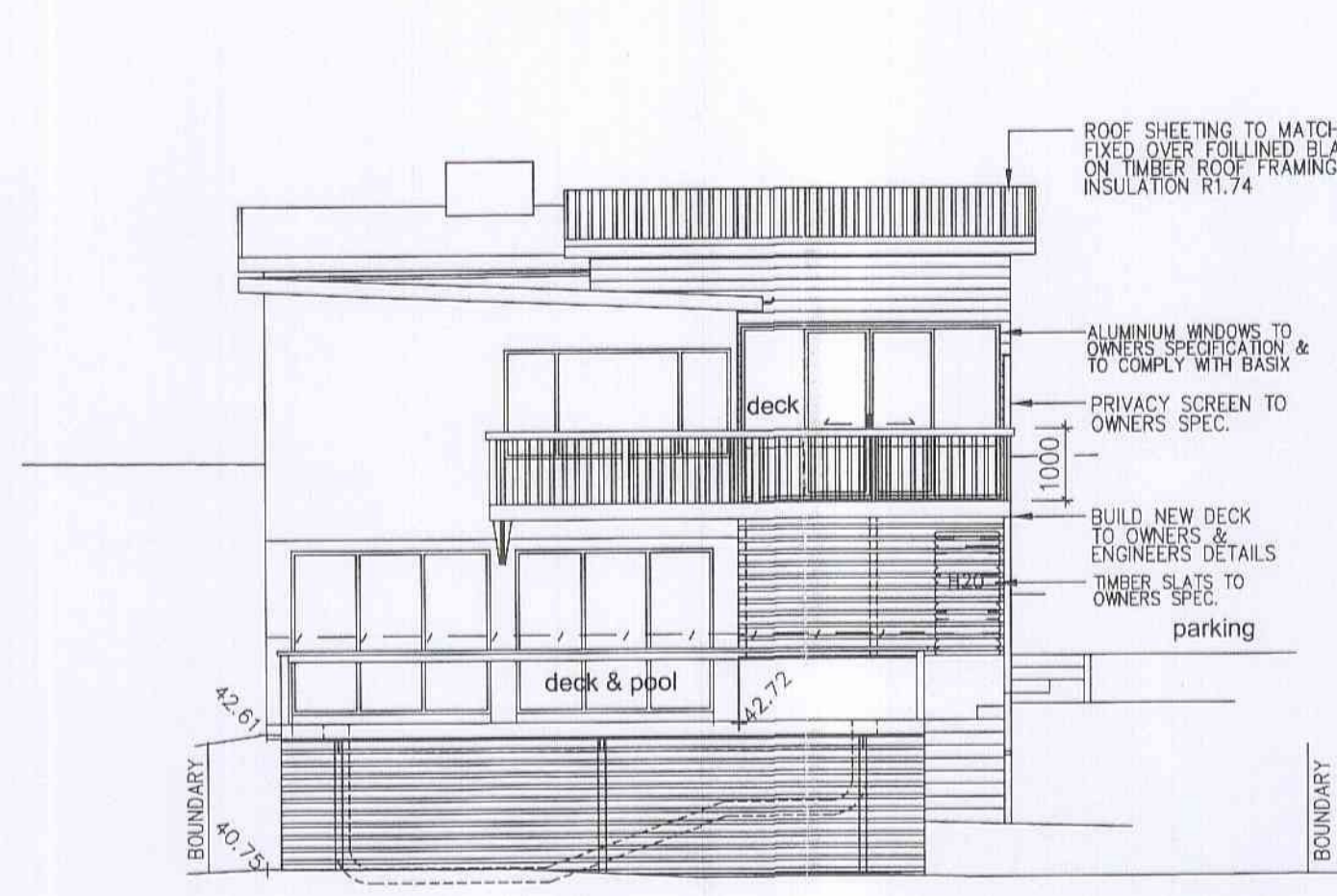
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 EX. RIDGE R.L. 49.87  
 F.C.L. R.L. 49.42

3030 3686

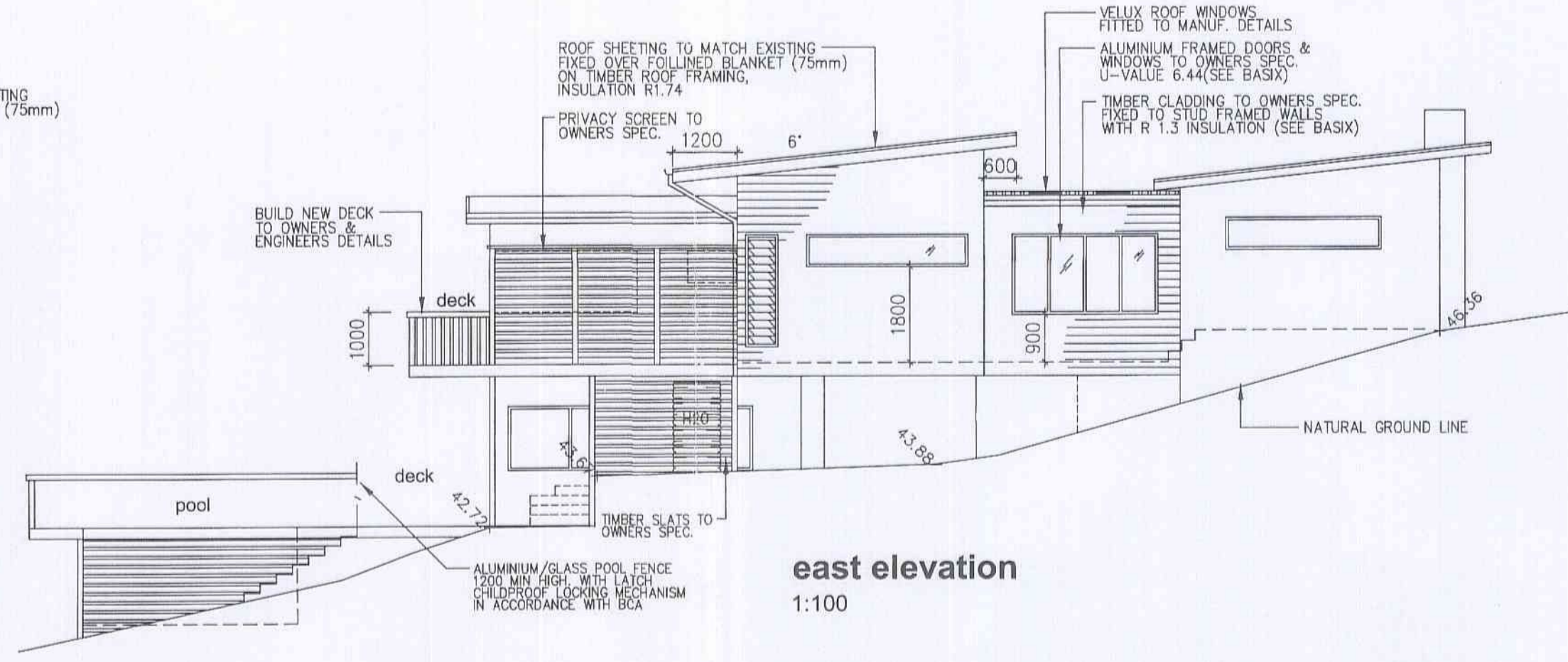
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 F.F.L. R.L. 45.79

2910

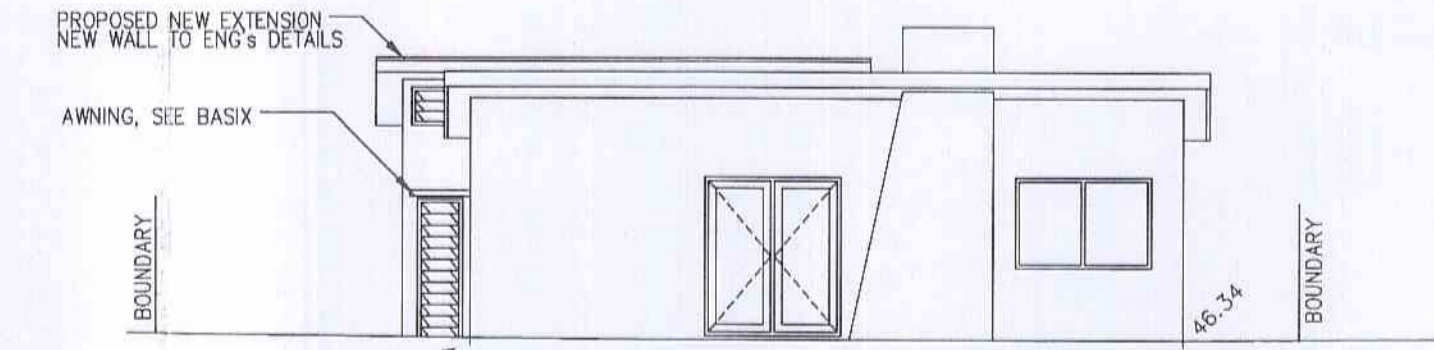
F.F.L. R.L. 42.88



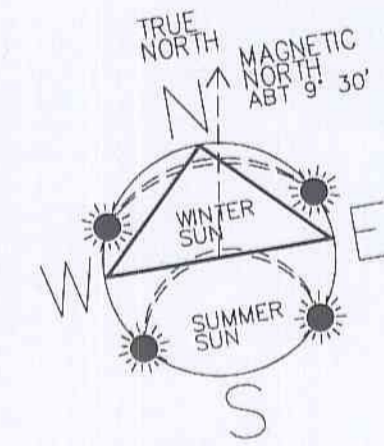
**south elevation**  
 1:100



**east elevation**  
 1:100



**north elevation**  
 1:100



**BASIX:**  
 THE DRAWINGS SHOULD BE READ IN CONJUNCTION WITH THE CORRECT BASIX CERTIFICATE (A COPY IS ATTACHED). ALL WORKS TO BE CARRIED OUT IN ACCORDANCE WITH THE REPORT.

**NOTES:**

- \*ALUMINIUM FRAMED DOORS & WINDOWS WITH SINGLE CLEAR GLASS, U-VALUE 6.44
- \*ALL ALTERED TOILETS, TAPS & FIXTURES FITTINGS TO BE MIN. RATING OF 3 STARS.
- \*RAINWATER TANKS OF AT LEAST 2100L TO BE INSTALLED COLLECTING RAIN RUNOFF FROM MINIMUM 78sq.m. OF ROOF. WITHIN 10m OF THE EDGE OF THE POOL.
- \*RAINWATER TANK TO BE CONNECTED TO A TAP LOCATED WITHIN 10m OF THE EDGE OF THE POOL.
- \*40% OF NEW OR ALTERED LIGHT FIXTURES ARE TO BE FITTED WITH FLOURESCENT, COMPACT FLOURESCENT, OR LIGHT-EMITTING-DIODE (LED) LAMPS.

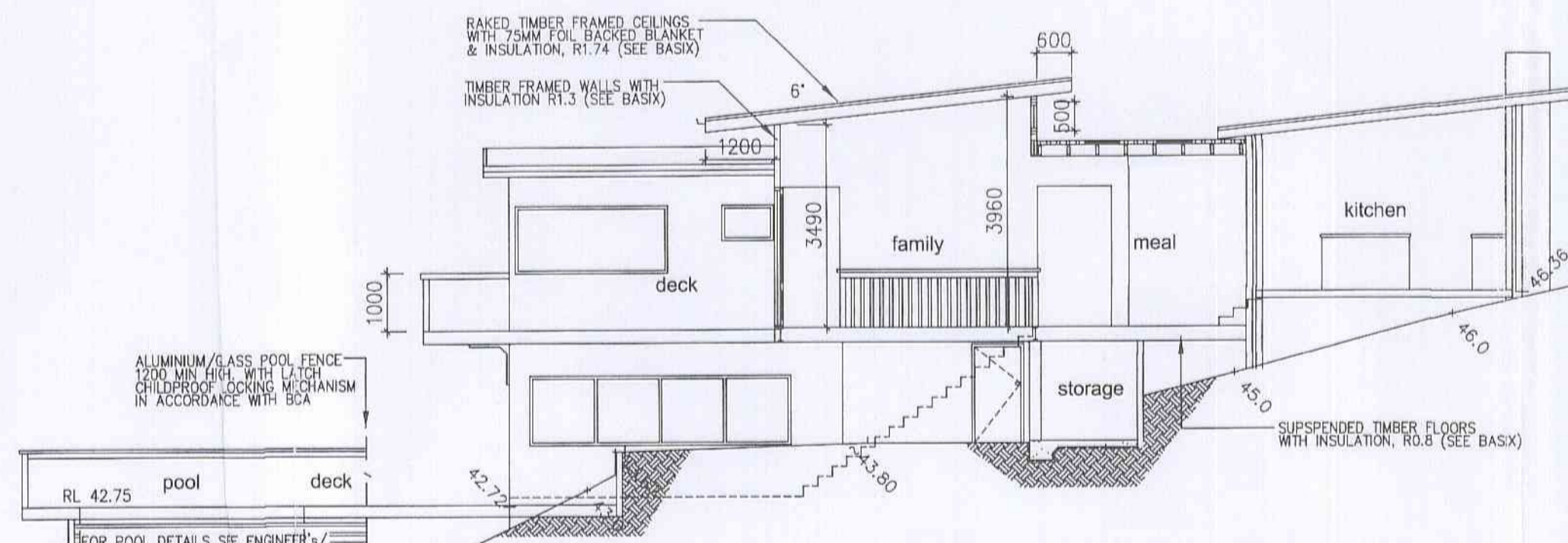
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 EX. RIDGE R.L. 49.87  
 F.C.L. R.L. 49.42

3030 3686

F.F.L. R.L. 46.39  
 F.F.L. R.L. 45.79

2910

F.F.L. R.L. 42.88



**section B-B**  
 1:100

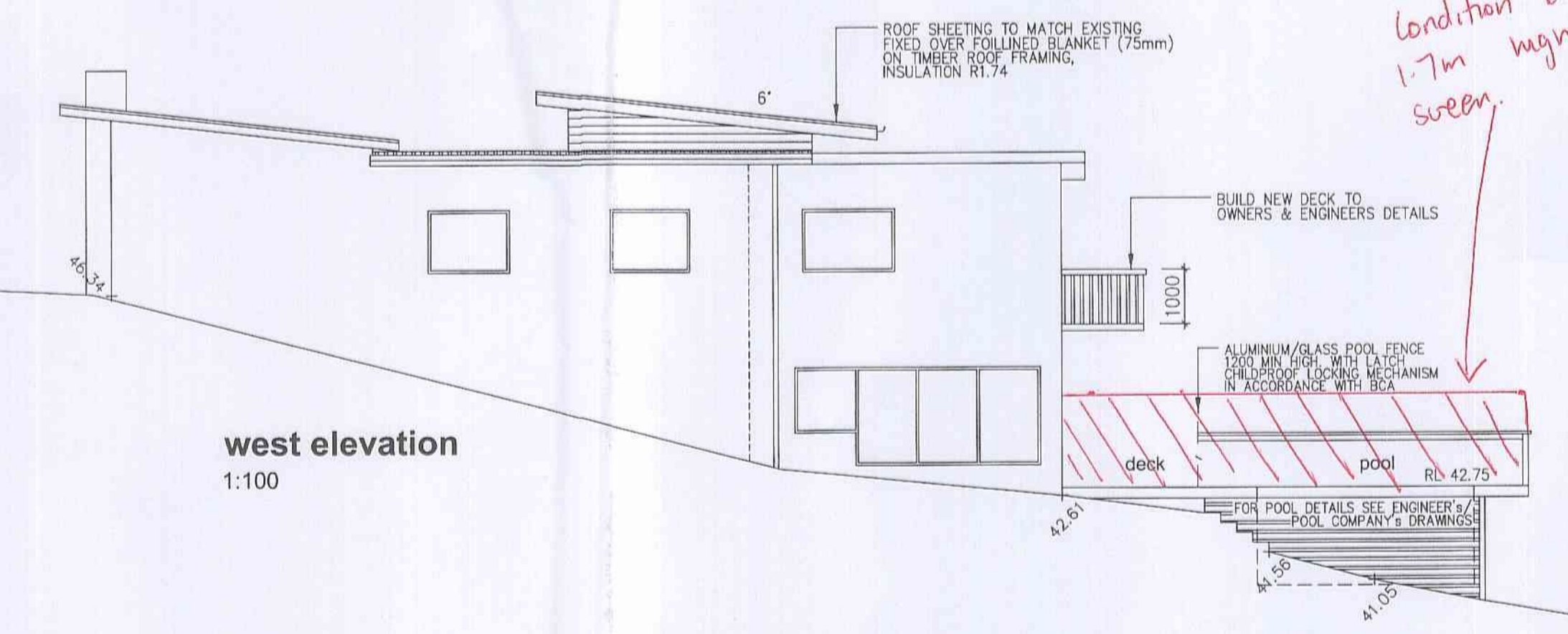
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 F.C.L. R.L. 49.42

3030 3686

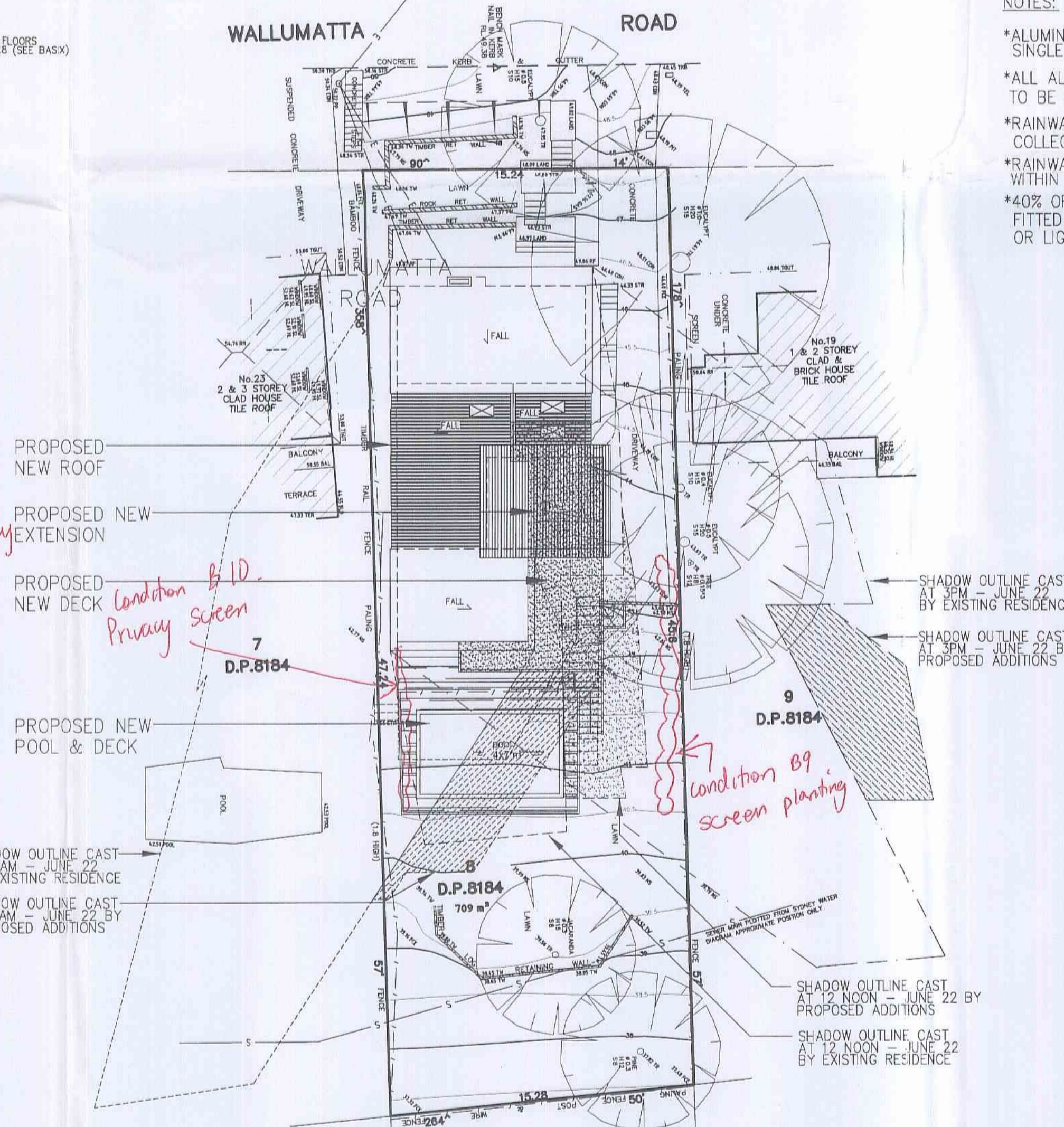
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 F.F.L. R.L. 45.79

2910

F.F.L. R.L. 42.88



**west elevation**  
 1:100



**site- & roof plan with shadow diagram - 22 June**  
 1:200



29/11/10	issue to client for council approval
mark	date
	amendments.

project.  
 Alterations & additions for  
**Mr. & Mrs. Hanks**  
 at 21 Wallumatta Road  
 NEWPORT NSW 2106

drawing title.

**WORKING DRAWINGS-**  
 Elevations, section & shadow diagram - 22 June  
 PITTWATER COUNCIL  
 APPROVED DEVELOPMENT CONSENT PLANS

scale. 1:100  
 date. NOV. 2010  
 NOTE: NOV. 2010 MUST BE READ IN CONJUNCTION WITH THE CONDITIONS OF DEVELOPMENT CONSENT.

Draftperson.  
**ANNA HENRY**  
**AH DESIGN**  
 22 WANDEEN ROAD, CLAREVILLE NSW 2107  
 T. 02 9918 5790  
 E. ahdesign@email.com

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project no. **A-935**  
 sheet no. **2**  
 of **2**  
 amendments. **2**

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