

the certification group
enhancing building performance

R171532

21st July, 2005

Pittwater Council
PO Box 882
MONA VALE NSW 1660

Dear Sir/Madam,

**Re: Development Application No. N0135/05
Our Construction Certificate No.143/2005
Premises: No 39 Calvert Parade, Newport Beach**

Please find attached a copy of the following:-

- Construction Certificate, stamped approved plans and relevant documentation.
- Notice to Commence Building Work.
- Appointment of a Principal Certifying Authority.

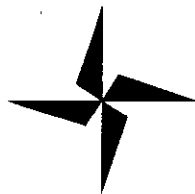
In accordance with the regulations we have enclosed a cheque for the sum of \$30.00 for the submission of the Part 4A certificate.

Should you have any further enquiries please do not hesitate to contact us and we will be pleased to assist you.

**NB:(Please forward receipt for the above \$30.00 fee to The Certification Group P/L.
PO Box 870 Narrabeen NSW 2101)**

Yours faithfully,

Wayne Treble- Director
The Certification Group P/L



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COUNCIL COPY

CONSTRUCTION CERTIFICATE DETERMINATION

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

CONSTRUCTION CERTIFICATE NO: 143/2005

DETERMINATION

Decision: Approved
Date of Decision: 21st July 2005

SUBJECT LAND

Address: No 39 Calvert Parade, Newport Beach
Lot No, DP: Lot A DP 395094

DESCRIPTION OF DEVELOPMENT

Alterations and additions to an existing sole occupancy dwelling.

APPLICANT

Name: Peter and Judith O'Mara
Address: No 39 Calvert Parade, Newport Beach
Contact Number: (tel) tel: 9999 2235, 0409 663 873

OWNER

Name: Peter and Judith O'Mara
Address: No 39 Calvert Parade, Newport Beach
Contact Number: (tel) tel: 9999 2235, 0409 663 873

PLANS AND SPECIFICATIONS

The development is to be carried out in compliance with the following plans and documentation listed below and endorsed with "The Certification Group" stamp.

DRAWING NUMBER

DATE

Architectural Plan No's: 0429 - 01 to 03 prepared by: Peter Downes Designs	11/3/05
12884 prepared by: Paul Keen and Company	8/12/04

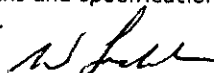
ATTACHMENTS

Storm Water Management Plan 50602C01 REV0, Prepared by: Docherty Consulting Engineers	30/6/05
Structural Plan No's: 50602S01 to 50602S05 REV0 prepared by: Docherty Consulting Engineers	30/6/05
Form No.2 Geotechnical Risk Management Policy for Pittwater	30/6/05
Certificate Docherty Consulting Engineers REF 50602C2	30/6/05
Certificate Docherty Consulting Engineers REF 50602C3	30/6/05
Certificate Docherty Consulting Engineers REF 50602C4	30/6/05
Certificate Docherty Consulting Engineers REF 50602C1	30/6/05
Roof Colour - Peter Downes Designs	Undated
Long Service Levy Receipt No. 170070	23/6/05
Sydney Water Quick Check Stamp - REF 3405357	3/6/05
Construction Certificate Application Form	8/7/05

CERTIFICATE

I certify that the work if completed in accordance with these plans and specifications will comply with the requirements of S81A (5) of the Environmental Planning and Assessment Act 1979.

SIGNATURE



DATE OF ENDORSEMENT

21/7/05

CERTIFICATE NO

143/2005

CERTIFYING AUTHORITY

Name of Certifying Authority
Name of Accredited Certifier
Registration No
Contact No
Address

THE CERTIFICATION GROUP P/L
Wayne Treble
P0100 - Dept of Infrastructure, Planning & Natural Resources
PH (02) 9944 8222, FAX (02) 9944 6330
PO BOX 870 NARRABEEN NSW 2101

DEVELOPMENT CONSENT

Council
Development Consent No
Date of Determination

Pittwater
N0135/05
16/5/05

BUILDING CODE OF AUSTRALIA
CLASSIFICATION

10a

Pittwater Council

REPRINTED

OFFICIAL RECEIPT

21/07/2005 Receipt No: 171532

To the certification group p/l

po box 870
NARRABEEN

Applic.	Reference	Amount
GL Recei	PRVC-Priv Iss	\$30.00
	1 X N0135/05 CC143/2005	

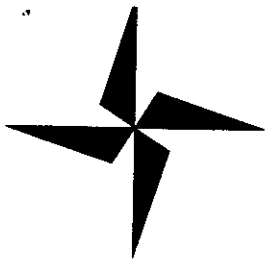
Total: \$30.00

Amounts Tendered

Cash	\$0.00
Cheque	\$30.00
Card	\$0.00
Money Order	\$0.00
Agency Rec	\$0.00
Total	\$30.00
Rounding	\$0.00
Change	\$0.00
Nett	\$30.00

Printed 21/07/2005 12:58:10 PM

Cashier: KRobins



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APPLICATION FORM

Made under the Environmental Planning and Assessment Act 1979, Sections 81A(2)(4), 84A, 85A, & 109C (1)(b),
Environmental Planning and Assessment Regulation 2000, clauses 126(1), 139(1), or 157(1)

To complete this form, please place a cross in the boxes and fill out the white sections as appropriate.

Application Sought

☐ Complying Development Certificate
☒ Occupation Certificate

☒ Construction Certificate
☒ Principal Certifying Authority

Subject Land

Address 39 CALVERT PDE, NEWPORT BEACH NSW 2106

Lot No, DP, SP, vol/fol. Etc LOT A DP 395094

Details of the applicant

Name / Company ☒ PETER & JUDITH O'MARA Contact Person PETER

Postal Address 39 CALVERT PDE, NEWPORT BEACH Postcode 2106 State NSW

E-mail PJOm @ TPG.COM.AU Daytime telephone 9999 2235

Fax 9999 2235 Mobile 0409 663 873

Applicant Signature Peter O'Mara Date 8-07-05

Consent of Owner(s)

☒ We as the owner/s of the above property authorise for either Mark Wysman, or Wayne Treble to provide Construction Certification and to act as the Principal Certifying Authority for the subject building works, including site inspections and to lodge the Notice of Commencement / Appointment of the Principal Certifying Authority with the relevant Council.

Name(s)/ Company ☒ PETER & JUDITH O'MARA

Address 39 CALVERT PDE, NEWPORT BEACH Postcode 2106 State NSW

Phone No 9999 2235 Mobile 0409 663 873 Fax 9999 2235

Signature of Registered owner(s). Company stamp or seal to be affixed if applicable

Peter O'Mara.

Judith O'Mara

Date 8-07-05

Description of the work proposed

Type of work proposed:

☐ New Building ☒ Additions / Alterations

Class of Building under Building Code of Australia _____

Description of the work TIMBER DECK & ROOF OVER PLUS CARPORTConstruction Cost of Works \$ 50,000 (APPROX)

Details of Builder

Contact Person OWNER BUILDER - PETER O'MARA

Name / Company _____

Fax 9999 2235 Mobile 0409 663 873Daytime telephone 9999 2235 Email PJOM @ TPE.COM.AU. (COVER CASE)Builders address 39 CALVERT POE, NEWPORT BEACH Postcode 2106

Details of the relevant Development Consent granted

Consent No. N0135/05 Date the consent was granted 16-05-05

Applicant Checklist

- ☐ Complete Application Form - Pages 1 & 2
- ☐ Attach supporting documentation as nominated on Page 3
- ☐ Complete statistical Return on Page 4

Private Policy

The information you provide in this notice is required under the Environmental Planning and Assessment Act 1979 if you are going to erect a building. If you do not provide the information to the consent authority, you cannot commence the work. The information will be held by the consent authority and by the council (if the council is not the consent authority). Please contact the certification group if the information you have provided in this notice is incorrect or changes.

Date of receipt (To be completed by Certifying Authority)

Date 15/7/05

STATISTICAL RETURN FOR AUSTRALIAN BUREAU OF STATISTICS

What is the site area of land?	Area in square meters <u>780</u>
Gross floor area of existing building? If no existing building, write NIL	Area in square meters <u>180 m²</u>
What is the existing building or site used for at present?	Main Uses <u>HOME DWELLING</u> Other Uses <u>N/A</u>
Does the site contain dual occupancy?	☐ Yes ☒ No
Gross floor area of proposed building?	In square meters <u>32 sq. m.</u>
What will the proposed building be used for?	Main Uses <u>OUT DOOR RECREATION</u> Other Uses <u>CAR STORAGE</u>
How many dwellings?	<u>1</u>
Are pre-existing at this property?	Dwellings <u>1</u>
Are proposed to be demolished?	Dwellings <u>NIL</u>
Are proposed to be constructed?	Dwellings <u>NIL</u>
Are attached to an existing building?	Dwellings <u>1</u>
Are attached to a new building?	Dwellings <u>N/A</u>
How many storeys will the building consist of?	Storeys <u>ONE</u>

What are the main building materials? (Please tick appropriate boxes)

WALLS N/A

- ☐ Full Brick
- ☐ Brick Veneer
- ☐ Concrete or Stone
- ☐ Steel
- ☐ Fibrous Cement
- ☐ Timber/weatherboard
- ☐ Cladding- aluminium
- ☐ Curtain glass
- ☐ Other
- ☐ Unknown

ROOF

- ☒ Aluminium
- ☐ Concrete or Slate
- ☐ Tile
- ☐ Fibrous Cement
- ☒ Steel
- ☐ Other
- ☐ Unknown

FLOOR

- ☐ Concrete or slate
- ☒ Timber
- ☐ Other
- ☐ Unknown

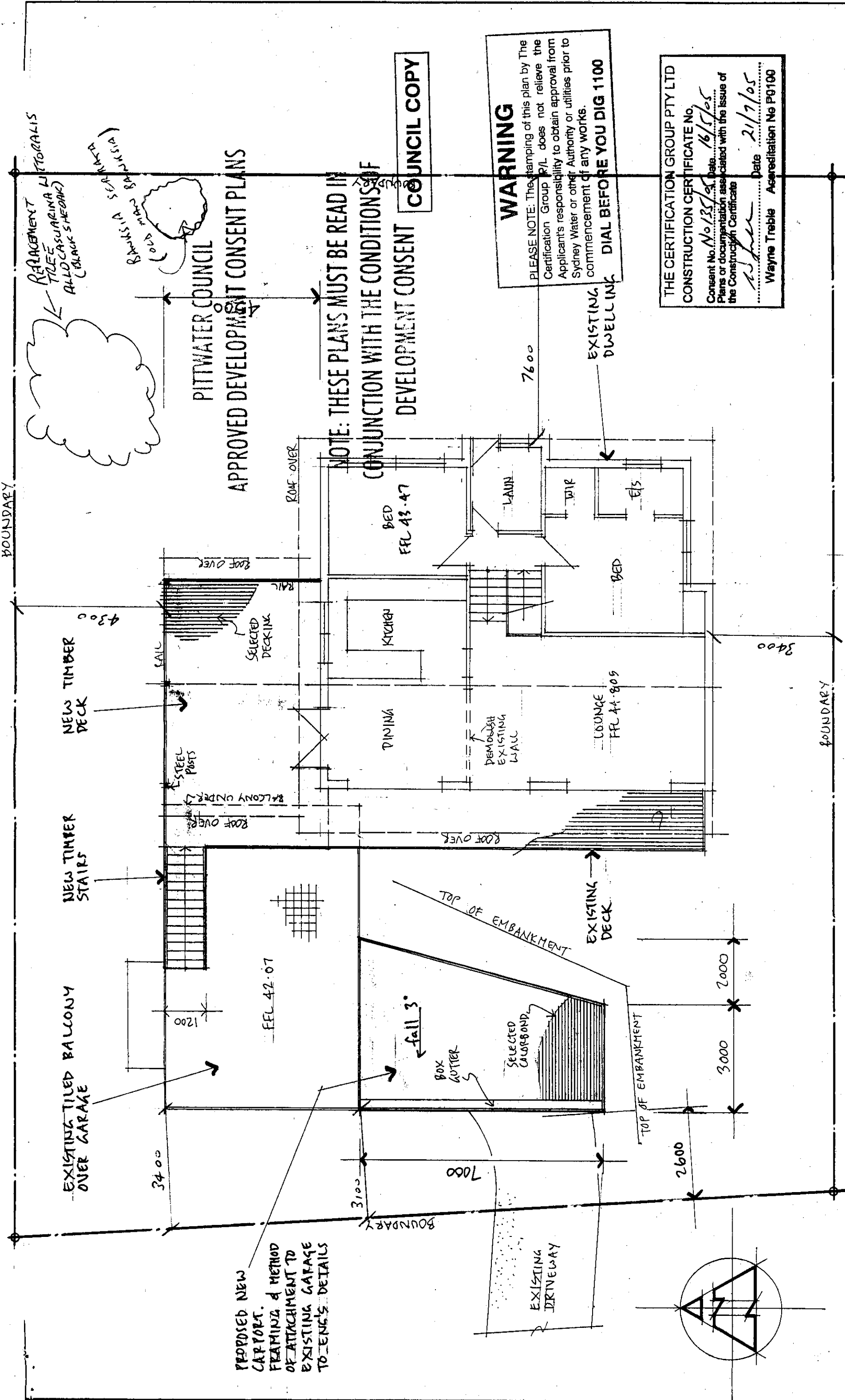
FRAME

- ☒ Timber
- ☐ Steel
- ☐ Aluminium
- ☐ Other
- ☐ Unknown

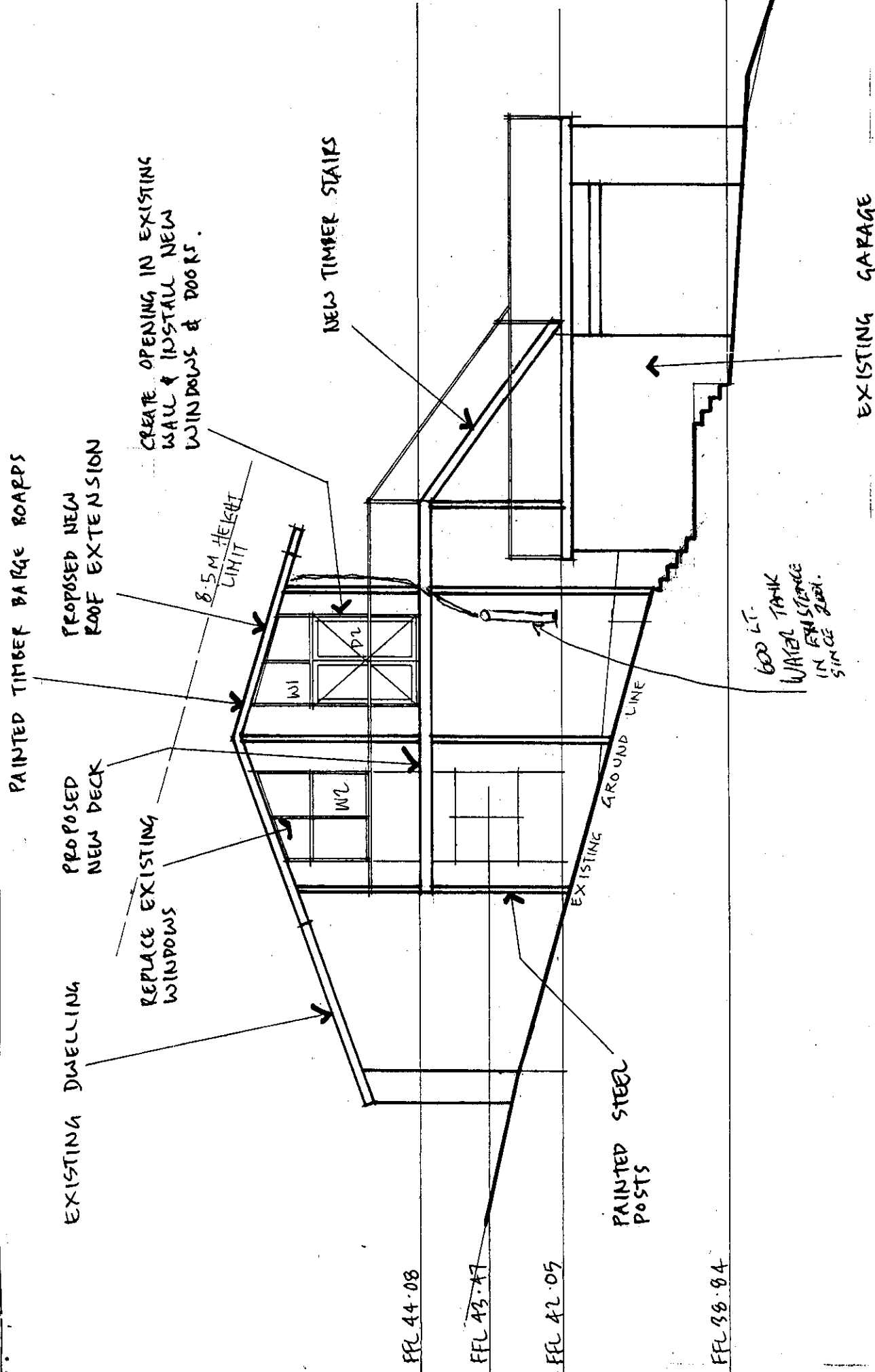
APPROVED DEVELOPMENT CONSENT PLANS

COUNCIL COPY

APPROVED FOR CONSTRUCTION OF THE
UNION REPAIRS.



REVISION		DRAWING		PROJECT		peter downes DESIGNS		DRAWING	
		DRAWN P. DOWNES		PROPOSED ALTERATIONS TO EXISTING DWELLING AT 39 CALVERT PDE, NEWPORT FOR MR & MRS O'MARA		phone 9973 3312 fax 9383 8076 address 115 Palmgrove Rd, Avalon 2107 email peter@peterdownes.com website www.peterdownes.com		SITE / FLOOR PLAN	
		CHECKED P. DOWNES							
		SCALE 1:100							
		DATE 11-3-2005							
		DRG. No. 0429-01							



BUILDING NOTES

All work to be carried out by suitably licensed and qualified tradesman, and to comply with all relevant standards and Council's requirements.

Main contractor to be responsible for obtaining all necessary inspection certificates.

APPROVED DEVELOPMENT CONSENT PLANS
 All proposed alterations to the existing dwelling must be installed and maintained to Council's satisfaction for the duration of the contract.

Smoke alarms are to be fitted in Building Code of Australia requirements.

NOTE: THESE PLANS MUST BE READ IN CONJUNCTION WITH THE RELEVANT AUSTRALIAN STANDARD FOR TERMITES.
 Termite protection is to be installed in accordance with the relevant Australian Standard.

New roof to be fitted with foil backed blanket with R2.5 insulation

WINDOW AND DOOR SCHEDULE

W1	1800w x 1100h	fixed
W2	1800w x 2200h	casement with fixed highlights over
D1	2700w x 2100h	stacking glass
D2	1800w x 2100h	French glass

Notes

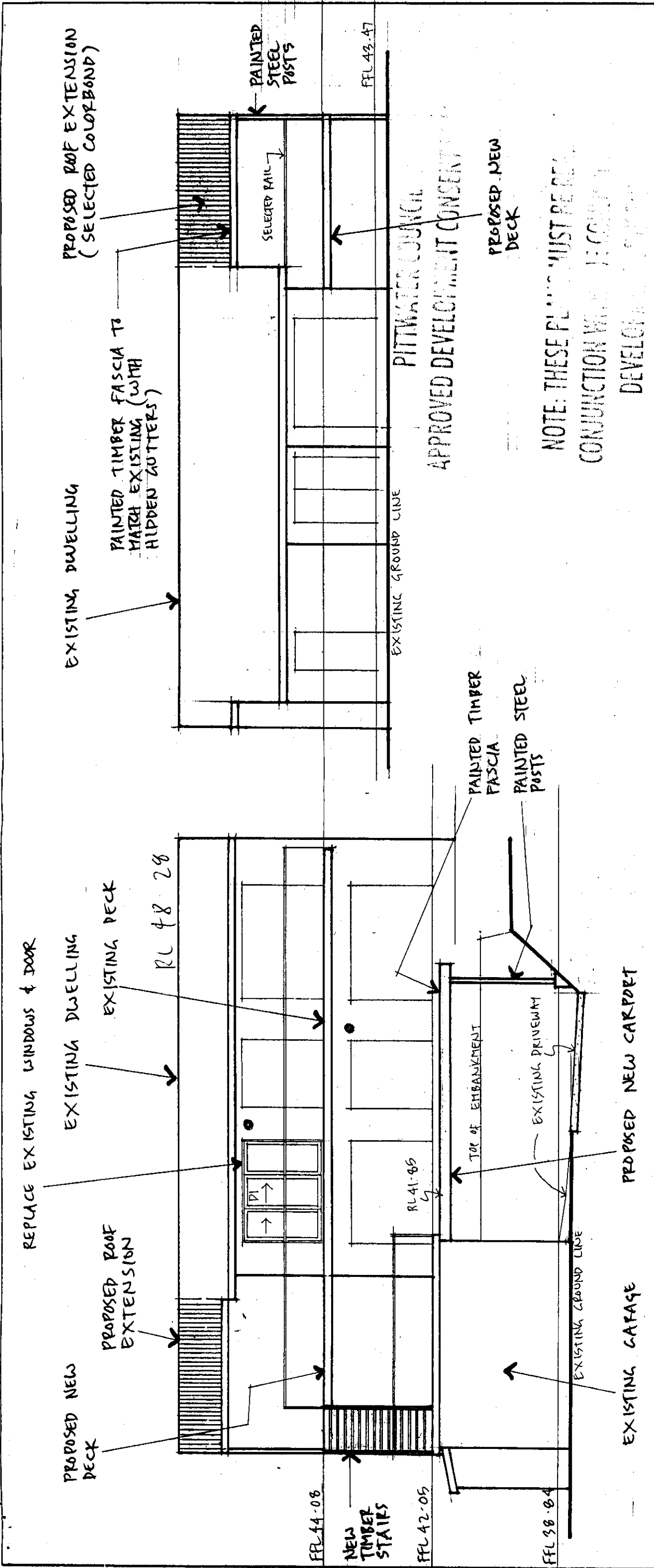
All windows and doors to be timber to match existing and to fitted with insect screens

All dimensions to be confirmed on site

COUNCIL COPY

THE CERTIFICATION GROUP PTY LTD
 APPROVED CONSTRUCTION CERTIFICATE
 DOCUMENTATION.

REVISION	 BUILDING DESIGNERS ASSOCIATION NEW SOUTH WALES INC FULL MEMBER	peter downes DESIGNS phone 9973 3312 fax 9383 8076 address 115 Palmgrove Rd, Avalon 2107 email peter@peterdownes.com website www.peterdownes.com	PROJECT PROPOSED ALTERATIONS TO EXISTING DWELLING AT 39 CALVERT PDE, NEWPORT FOR MR & MRS O'HARA		DRAWN P. DOWNES	CHECKED P. DOWNES
			DRAWING NORTH ELEVATION		SCALE 1:100	DATE 11.3.2005



COUNCIL COPY

• SMOKE ALARMS (FITTERS SINCE 1980)

THE CERTIFICATION GROUP PTY LTD
APPROVED CONSTRUCTION CERTIFICATE
DOCUMENTATION

REVISION	DESIGNERS	PROJECT	DRAWN	CHECKED
	peter downes BUILDING DESIGNERS ASSOCIATION NEW SOUTH WALES INC FULL MEMBER	PROPOSED ALTERATIONS TO EXISTING DWELLING AT 39 CALVERT PDE, NEWPORT FOR MR & MRS O'HARA	P. DOWNES	P. DOWNES
	phone 9973 3312 fax 9383 8076 address 115 Palmgrove Rd, Avalon 2107 email peter@peterdownes.com website www.peterdownes.com	DRAWING EAST & WEST ELEVATIONS	SCALE 1:100	DATE 14.3.2005
				DRG. No. 0429-03

ALTERATIONS TO EXISTING DWELLING at
39 CALVERT PARADE, NEWPORT
For Mr and Mrs O'MARA

STRUCTURAL AND CIVIL DRAWINGS

- | | | |
|-----|----|-------------------------------|
| S00 | /0 | COVER SHEET |
| S01 | /0 | CONSTRUCTION NOTES |
| S02 | /0 | CARPORT FOOTING AND ROOF PLAN |
| S03 | /0 | CARPORT SECTIONS AND DETAILS |
| S04 | /0 | DECK PLAN AND DETAILS |
| S05 | /0 | ROOF PLAN AND DETAILS |
| | | |
| C01 | /0 | STORMWATER MANAGEMENT PLAN |

THE CERTIFICATION GROUP PTY LTD
APPROVED CONSTRUCTION CERTIFICATE
DOCUMENTATION.

COUNCIL COPY

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CONSTRUCTION NOTES

GENERAL

G1 This drawing shall be read in conjunction with all other working drawings and specifications and with such other written instructions as may be issued during the course of construction. All discrepancies and variations shall be referred to the Engineer before proceeding with the work.

G2 All work shall be in accordance with the requirements of all relevant and current SAA Codes.

G3 All dimensions relevant to setting out and off-site work shall be verified before construction and fabrication is commenced.

G4 Dimensions shall not be obtained by scaling the structural drawings.

G5 During construction the structure shall be maintained in a stable condition and no part of the structure shall be overstressed.

G6 The structural elements shown on these drawings have been designed for the following superimposed loads : Roof load = 0.25 kPa
Deck load = 2.0 kPa
Wind Classification = N3

CONCRETE

C1 All workmanship and materials shall be in accordance with current editions of AS3600 except as varied by contract documents.

C2 Cement shall be Type "A" unless specified otherwise.

C3 Concrete components and quality shall be as follows:

Structural Element	F _c MPa	Slump mm	Aggr. size mm	Density (kg/m ³)
Footings, levelling strips	20	80	20	2400
Slab on ground	25	80	20	2400
Suspended slab	32	80	20	2400

C3 Clear concrete cover to reinforcement unless shown otherwise shall be:

Element	Formed Not exposed	Formed exposed soil or rain	Poured against membrane
Slabs	30	40	30
Walls	30	40	n/a
Beams	40	50	n/a
Columns	40	50	n/a
Pedestals	50	50	n/a
Footings	50	65	40

C4 Construction joints shall be properly formed and used only where shown or specifically approved by the Engineer.

C5 No holes, chases or embedment of pipes, other than those shown on the structural drawings, shall be made without the written prior approval of the Engineer.

C6 Splices in reinforcement shall be made only in the positions shown on the Structural drawings, or as otherwise approved by the Engineer.

CONCRETE

C7 Lapped fabric splices shall be so made that the overlap, measured between the outermost wires of each sheet of fabric, is not less than the wire spacing plus 25mm.

C8 Reinforcement is shown diagrammatically, it is not necessarily shown in true projection.

C9 All reinforcement fabric shall be to AS1304

All reinforcement bars shall be to AS1302.

Symbols: F: wire reinforcing fabric.

W: Grade 450 deformed wire

S: Grade 200 deformed bar

N: Grade 500 deformed bar.

Example of designation code for reinforcing bars :-

No of bars in group - 17N20-350

nominal bar size in mm - 17

UNO stands for unless noted otherwise.

C10 Where transverse tie bars are not shown, provide Y12-400. Splice where necessary and lap with main bars for 400mm.

C11 All concrete shall be placed and "cured" in accordance with AS3600. Where curing compound is used it must be applied (a) onto slabs within 2 hours of finishing the concrete surface, (b) onto walls and columns immediately after removal of formwork.

C12 Horizontal formwork shall be stripped when approved by the Engineer.

C13 Slabs and beams shall bear only onto the beams, walls and other types of support as shown on the structural drawings. All other building elements shall be kept 15mm clear from soffits of structure.

C14 During concrete placing the builder shall have on site rain protecting plastic sheeting and supports to keep it clear of wet concrete, and also aliphatic alcohol sprays to prevent plastic cracking in hot or windy conditions.

MASONRY

M1 Where slabs or beams bear on masonry, the top course shall be level, smooth and covered with two layers of three-ply malthoid unless noted otherwise.

M2 Masonry walls shall not be erected on suspended slabs or beams until all propping has been removed.

M3 Bricks used in load bearing construction shall have a minimum compressive strength of 20 MPa unless otherwise noted.

M4 All masonry shall comply with AS3700 and Australian Standards referenced within AS3700.

M5 Masonry shall be articulated where required by AS2870 to satisfy footing design selections.

EPOXY AND MECHANICAL ANCHORS

A1 After drilling holes for epoxy and mechanical anchors, remove all debris from hole using a combination of 'bottle' type stiff brushes and air pumps as specified by manufacturer.

BLOCKWORK

B1 Blockwork shall be in accordance with AS2733

B2 Concrete in base shall be Grade 20

B3 Reinforcement symbol S requires bars as Note C9

B4 Construct retaining walls with double-U blocks

B5 Blocks shall be Grade 12 to AS2733

B6 Clean out openings shall be used in all cores and cleaned out before grout filling.

B7 Use recessed blocks for horizontal bars.

B8 Grout shall be Grade 20 with 10mm aggregate and 230 slump

B9 All cores shall be filled with grout

B10 All mortar shall be 1 part cement to 1/2 part lime and 4-1/2 parts sand. (1 : 0.5 : 4.5)

B11 Mortar dags and concrete fins shall be removed by rodding and cleaned out before grouting cores.

B12 Where horizontal bars are specified in both faces they shall be in staggered courses.

B13 Where vertical bars are shown lapped, the bar may be in one length to suit double-U blocks in stack bond

STRUCTURAL STEELWORK

S1 All workmanship and materials shall be in accordance with AS4100, AS1554, AS3679 and AS1163 as applicable.

S2 Unless otherwise noted all structural steel shall be Grade 300 (Grade 350 for hollow sections)

S3 All bolts shall be high strength, galvanised.

S4 Provide 25 thick cement mortar pad under steelwork supported on masonry.

S5 Steel shall be painted with primer unless noted.

S6 Lintels, beams columns partly exposed to the weather shall be hot dip galvanised and painted to architect's specifications as appropriate.

S7 All welds shall be 6mm continuous fillet all round U.N.O.

TIMBER FRAMING

T1 All workmanship and materials shall be in accordance with AS1684 and AS1720 as applicable.

T2 Use treated timber where required for durability

T3 Do not use timber unsuitable for exposure to moisture in exposed locations

T4 Provide structure bracing in accordance with AS1684

T5 Provide structure tie down in accordance with AS1684

T6 Use galvanised fixings where exposed to weather

T7 Design is based on roof material shown on the drawings

FOUNDATIONS

F1 Footings have been designed to bear on bedrock.

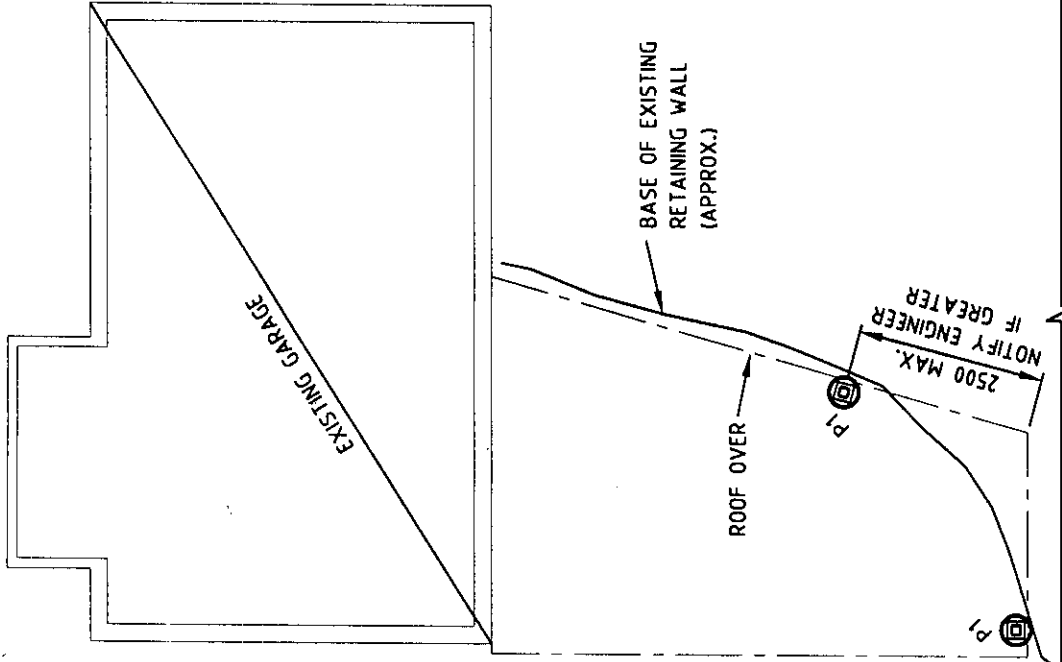
The foundation shall be approved by the Geotechnical & Structural Engineer before placing concrete in footings.

F2 Compact sub-grade to 95% MDD (maximum dry density) in accordance with AS 1289. Sub-grade soft spots observed during compaction shall be removed and replaced with select fill, 95% MDD.

THE ENGINEERING GROUP LTD
APPROVED CONSTRUCTION CERTIFICATE
DOCUMENTATION.

COUNCIL COPY

Project: ALTERATIONS TO EXISTING DWELLING 39 CALVERT PARADE, NEWPORT For Mr and Mrs O'MARA		Drawn: KRD Date: 30/6/05 Scale: NTS	Approved: K R DOCHERTY Purpose of issue: CONSTRUCTION	Sheet: A3 Project No: 50602 Draw No: S01 Rev: 0
Drawing Title: CONSTRUCTION NOTES				
DOCHERTY CONSULTING ENGINEERS Doeherty Consulting Engineers Pty Ltd ABN 74 05 101 540 AON 105 101 540 23 Clarendon Street, Clarendon Place, NSW 2097 ph/fax 02 9544 0652 email: kdoeherty@doeherty.com.au		Structural & Civil		
I am a Structural Engineer holding the qualification of BE (Civil) and ME (Structural) and I am appropriately qualified to certify the structural components of this project. I hereby state that these plans and details comply with the conditions of development consent, the provisions of the Building Code of Australia and/or relevant Australian/Industry Standards.		Kyle Doeherty BE ME PEng Doeherty Consulting Engineers Pty Ltd		
30/6/05	0	ISSUE FOR CONSTRUCTION		
DATE	ISSUE	DESCRIPTION		



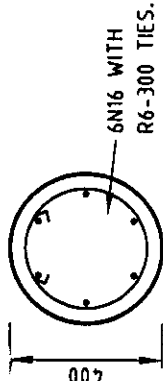
CARPORT FOOTING PLAN
SCALE 1:100

MEMBER SCHEDULE

- P1 400 DIA. REINFORCED CONCRETE BORED PIER TO ROCK
- P2 400 DIA. REINFORCED CONCRETE BORED PIER TO ROCK

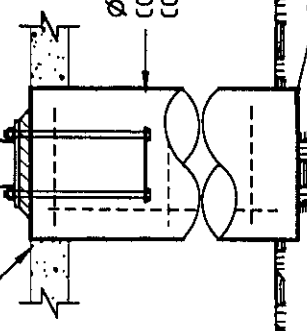
FOOTING NOTES:

GEOTECHNICAL ENGINEER TO CONFIRM ROCK FOUNDATION AND MIN. ALLOWABLE BEARING PRESSURE OF 200 kPa PRIOR TO PLACEMENT OF CONCRETE.



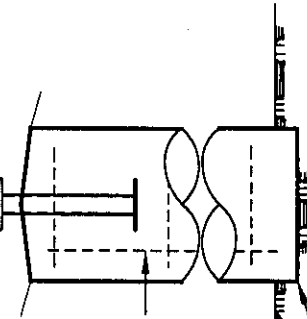
PIER P1/P2 SECTION
SCALE 1:20

REFER TO DWG S03
DETAIL E FOR BASE
DETAIL

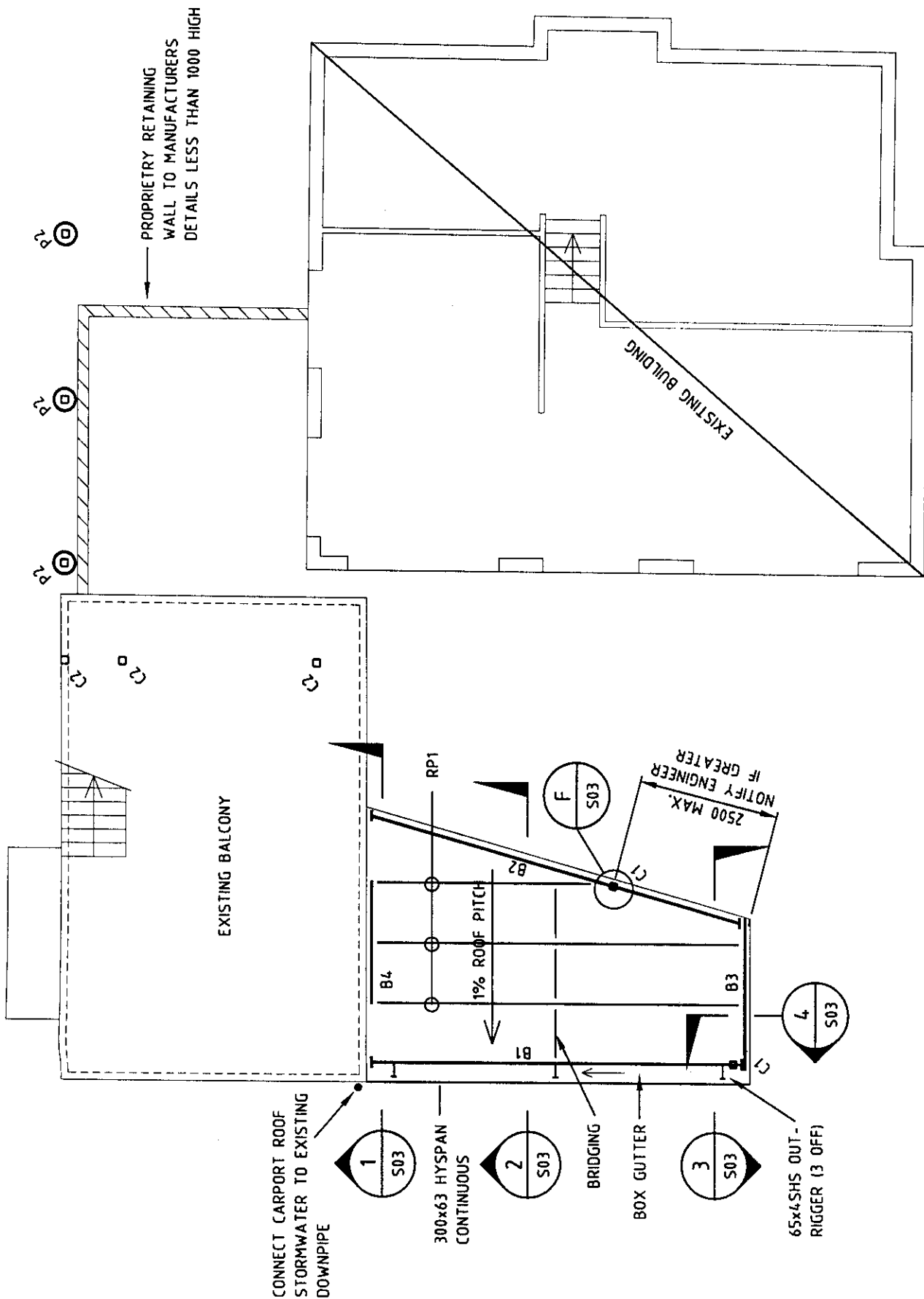


PIER P1 DETAIL
SCALE 1:20

REFER TO DWG S05
DETAIL E FOR BASE
DETAIL



PIER P2 DETAIL
SCALE 1:20



CARPORT ROOF AND DECK FOOTING PLAN
SCALE 1:100

MEMBER SCHEDULE

- B1 200UB22 STEEL BEAM
- B2 200UB22 STEEL BEAM
- B3 200UB18 STEEL BEAM
- B4 150x90x8UA STEEL LEDGER ANGLE
- RP1 C20015 AT 1100 MAX. CTRS. 1 ROW OF BRIDGING
- C1 125x6SHS STEEL COLUMN
- C2 135x135 H3 TREATED PRIMED TIMBER POSTS CONTINUOUS

WARNING

PLEASE NOTE: The stamping of this plan by The Certification Group P/L does not relieve the Applicant's responsibility to obtain approval from Sydney Water or other Authority or utilities prior to commencement of any works.

DIAL BEFORE YOU DIG 1100

COUNCIL COPY

THE CERTIFICATION GROUP PTY LTD
APPROVED CONSTRUCTION CERTIFICATE
DOCUMENTATION.

Project		Drawn	Approved	Project	Sheet	Project No	Orig No	Rev
ALTERATIONS TO EXISTING DWELLING		KRD	K R DOCHERTY	39 CALVERT PARADE, NEWPORT	30/6/05	CONSTRUCTION	A3	S02
For Mr and Mrs O'MARA		Date	Purpose of Issue	Scale	Shown	Sheet	Project No	Orig No
CARPORT FOOTING & ROOF PLAN		30/6/05	CONSTRUCTION	A3	50602	S02	0	0

DOCHERTY CONSULTING ENGINEERS

Doherly Consulting Engineers Pty Ltd ABN 74 105 101 540 AON 105 101 540
23 Occoore Street, Colaroy Park, NSW 2091 ph/fax 02 9444 0662 email: krd@doherly.com.au

Structural & Civil

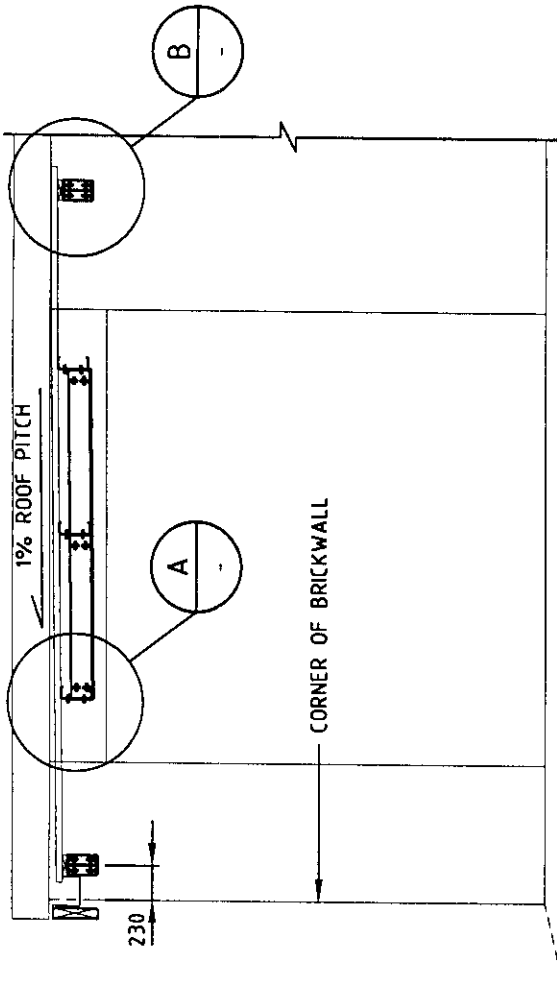
PLAN CERTIFICATION

I am a Structural Engineer holding the qualification of BE (Civil) and ME (Structural) and I am appropriately qualified to certify the structural components of this project. I hereby state that these plans and details comply with the conditions of development consent, the provisions of the Building Code of Australia and/or relevant Australian/Industry Standards.

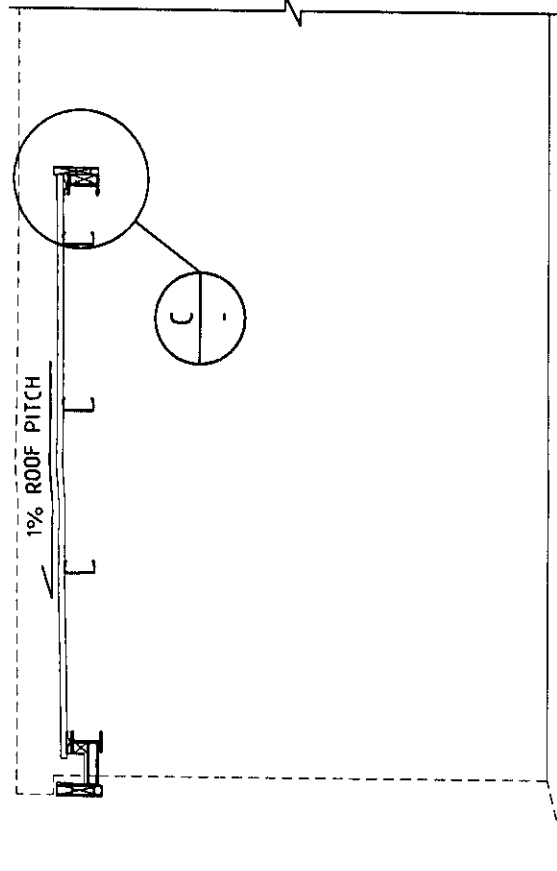
Kyle Docherty BE ME PEng
Doherly Consulting Engineers Pty Ltd

30/6/05 0 ISSUE FOR CONSTRUCTION

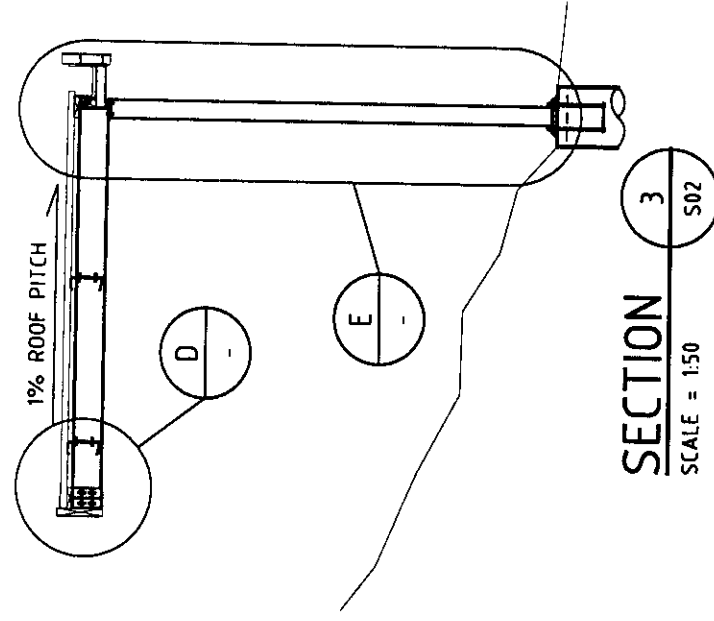
DATE ISSUE DESCRIPTION



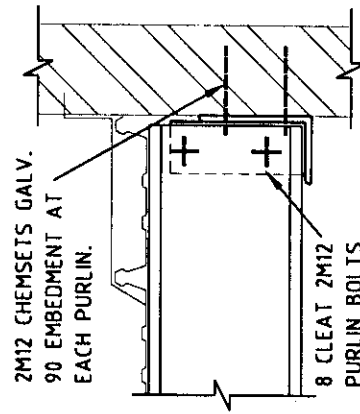
SECTION 1
SCALE = 1:50
S02



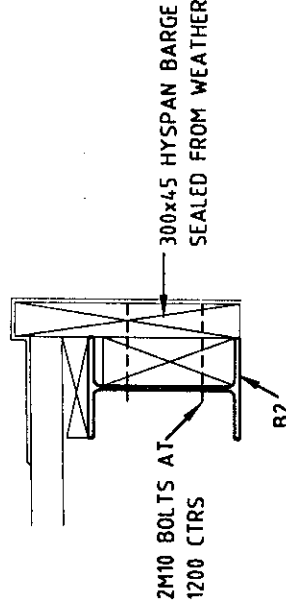
SECTION 2
SCALE = 1:50
S02



SECTION 3
SCALE = 1:50
S02

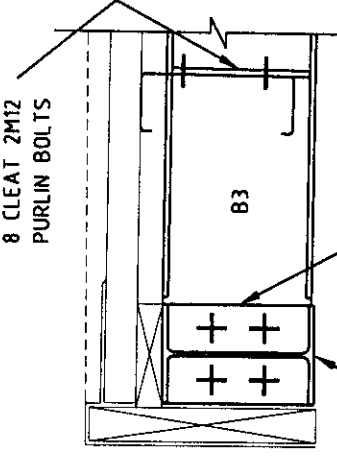


DETAIL A
SCALE = 1:10
S02

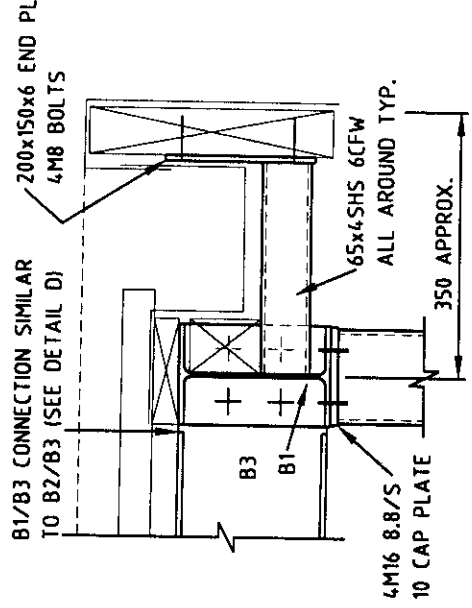


DETAIL B
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S02

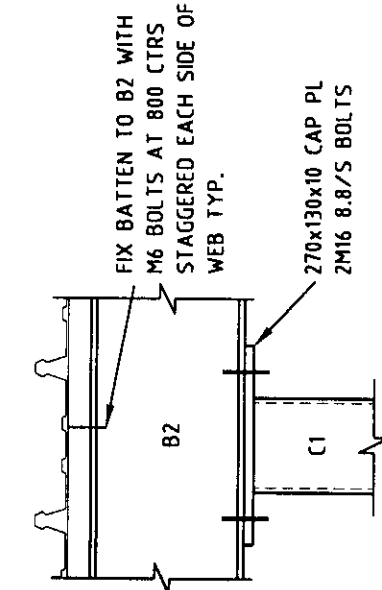
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SCALE = 1:10
(B1 END PLATE SIMILAR)



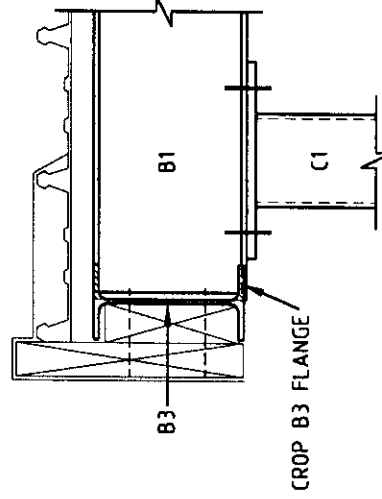
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S02



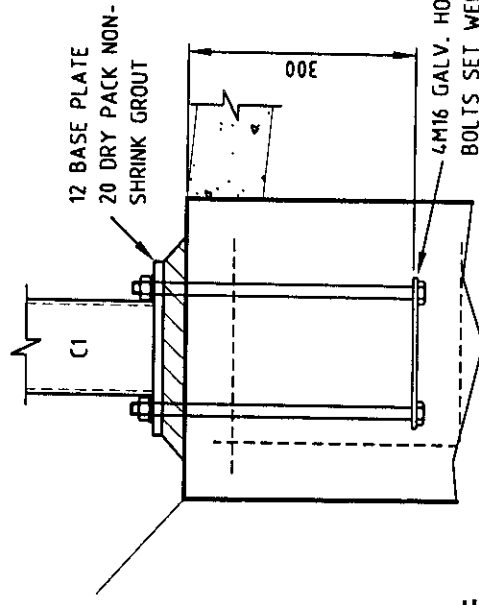
DETAIL D
SCALE = 1:10
S02



DETAIL E
SCALE = 1:10
S02



SECTION 4
SCALE = 1:10
S02



DETAIL F
SCALE = 1:10
S02

C1 BASE DETAIL
SCALE = 1:10
THE CERTIFICATION GROUP PTY LTD
APPROVED CONSTRUCTION CERTIFICATE DOCUMENTATION.

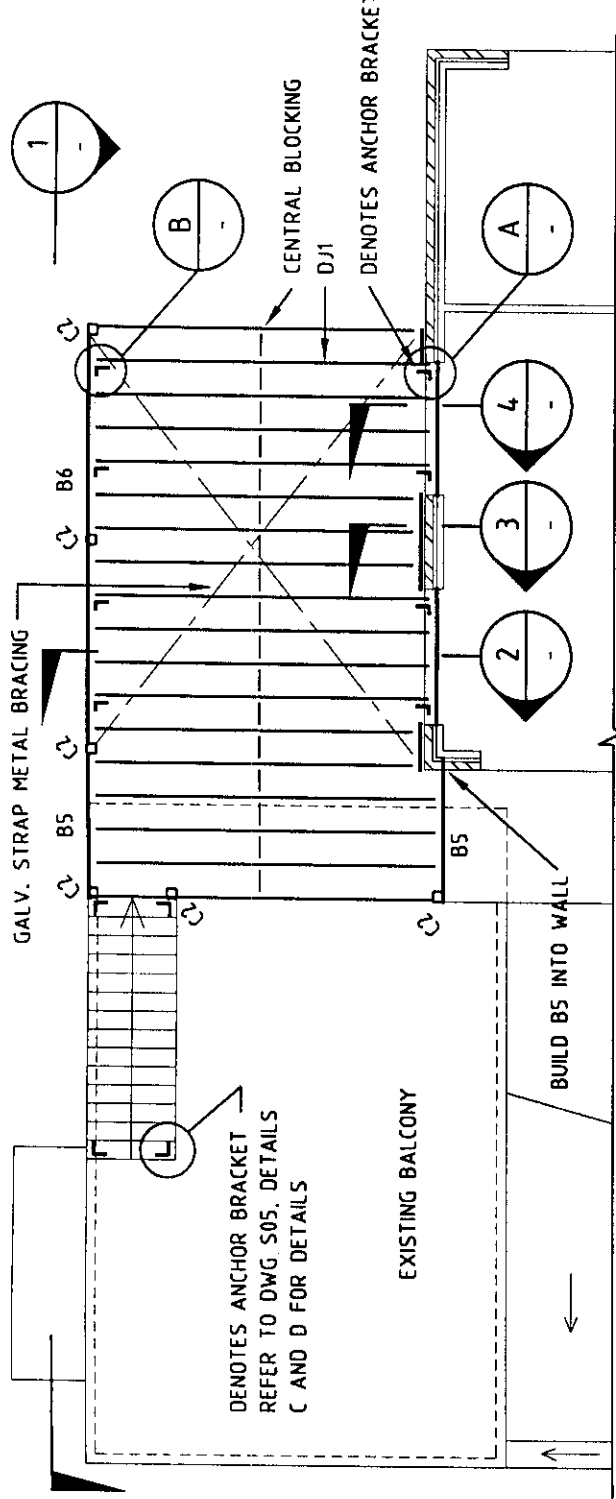
COUNCIL COPY

PLAN CERTIFICATION
I am a Structural Engineer holding the qualification of BE (Civil) and ME (Structural) and I am appropriately qualified to certify the structural components of this project. I hereby state that these plans and details comply with the conditions of development consent, the provisions of the Building Code of Australia and/or relevant Australian/Industry Standards.
Kyle Docherty BE ME PEng
Docherty Consulting Engineers Pty Ltd

DATE	ISSUE	DESCRIPTION
30/6/05	0	ISSUE FOR CONSTRUCTION

DOCHERTY CONSULTING ENGINEERS
Structural & Civil
Docherty Consulting Engineers Pty Ltd ABN 74 105 101 540 ACN 105 101 540
23 Claudine Street, Concord NSW 2137 ph/fax 02 9944 0662 email: k.docherty@docherty.com.au

Project	Drawn	Approved
ALTERATIONS TO EXISTING DWELLING 39 CALVERT PARADE, NEWPORT For Mr and Mrs O'MARA	KRD	K R DOCHERTY
Drawing Title	Date	Purpose of Issue
CARPORT SECTIONS AND DETAILS	30/6/05	CONSTRUCTION
Scale	Shown	Sheet Project No
S02	A3	50602
DATE	ISSUE	DESCRIPTION
30/6/05	0	ISSUE FOR CONSTRUCTION



MEMBER SCHEDULE

DJ1 290x45 KD F7 TREATED AT 450 MAX CTRS
B5 290x65 GL10 H3 TREATED PRIMED TIMBER BEAM CONTINUOUS
B6 290x65 GL10 H3 TREATED PRIMED TIMBER BEAM CONTINUOUS
C2 135x135 H3 TREATED PRIMED TIMBER POSTS CONTINUOUS

SECTION 1

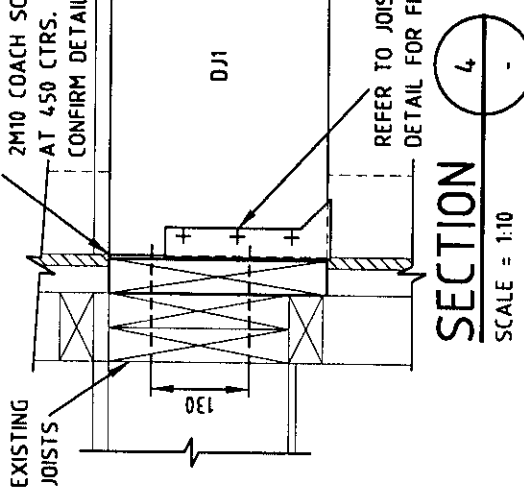
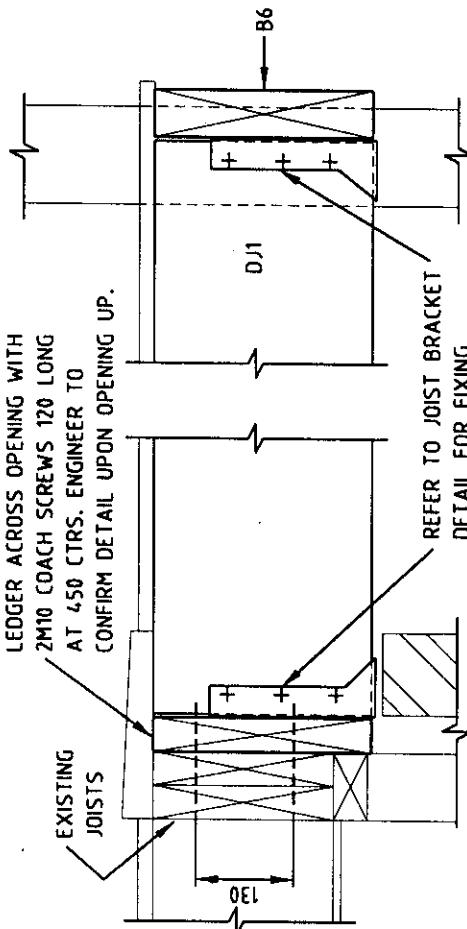
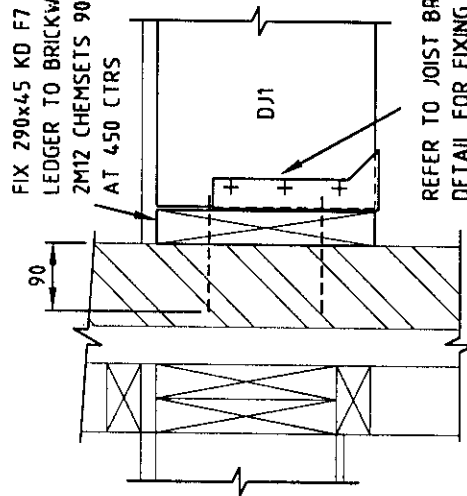
SCALE = 1:100

FIX 290x45 KD F7 TREATED
LEDGER ACROSS OPENING WITH
2M10 COACH SCREWS 120 LONG
AT 450 CTRS. ENGINEER TO
CONFIRM DETAIL UPON OPENING UP.

EXISTING
JOISTS

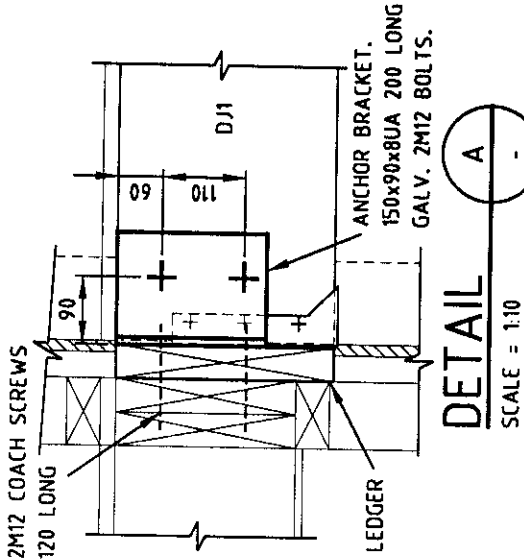
FIX 290x45 KD F7 TREATED
LEDGER ACROSS OPENING WITH
2M10 COACH SCREWS 120 LONG
AT 450 CTRS. ENGINEER TO
CONFIRM DETAIL UPON OPENING UP.

FIX 290x45 KD F7 TREATED
LEDGER TO BRICKWORK WITH
2M12 CHEMSETS 90 EMBEDMENT
AT 450 CTRS



EXISTING
JOISTS

FIX 290x45 KD F7 TREATED
LEDGER ACROSS OPENING WITH
2M10 COACH SCREW 120 LONG
AT 450 CTRS. ENGINEER TO
CONFIRM DETAIL UPON OPENING UP.



SECTION 2

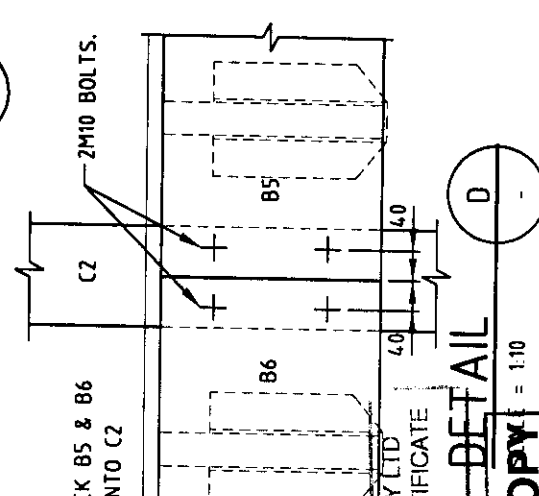
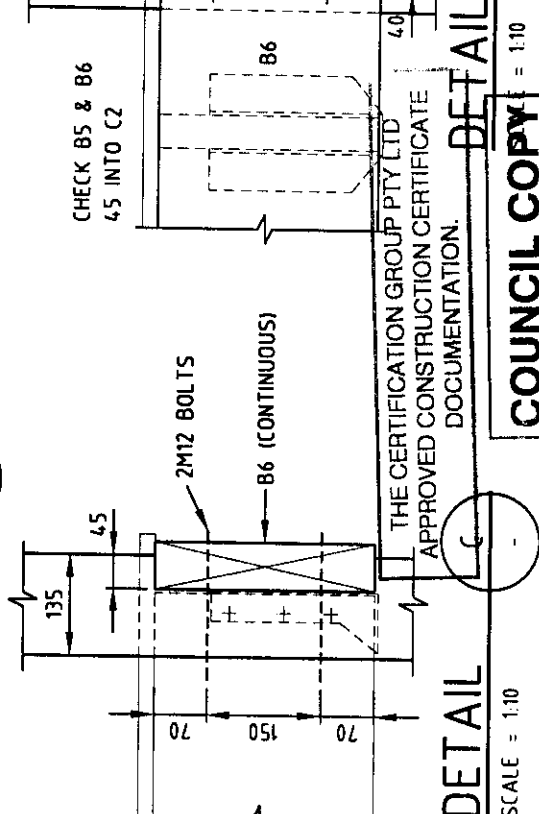
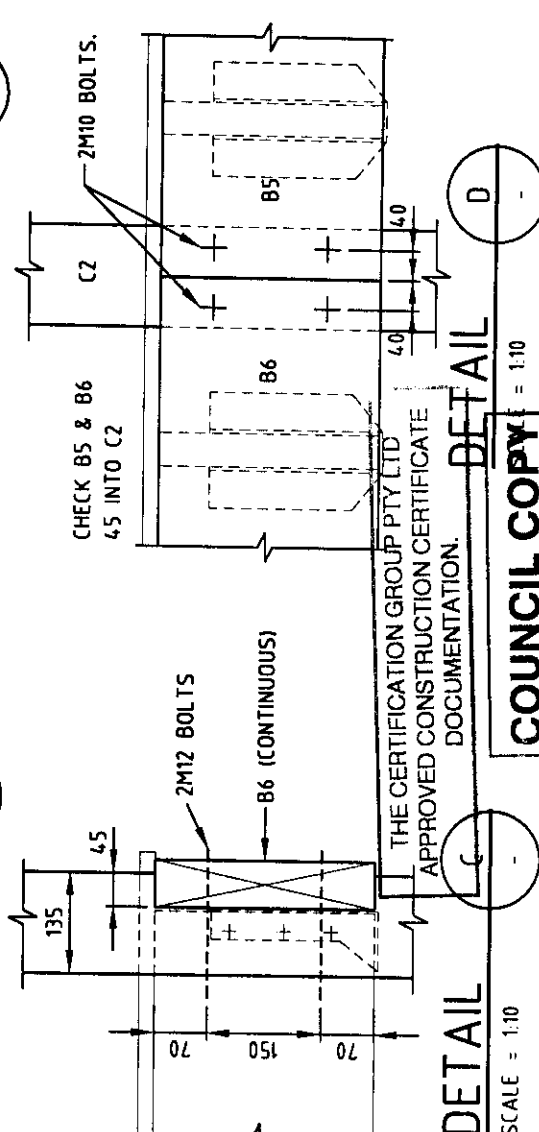
SCALE = 1:10

SECTION 3

SCALE = 1:10

SECTION 4

SCALE = 1:10



TYPICAL JOIST BRACKET DETAIL

SCALE = 1:10

DETAIL C

SCALE = 1:10

DETAIL D

SCALE = 1:10

COUNCIL COPY

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Kyle Docherty BE ME PEng
Docherty Consulting Engineers Pty Ltd

DOCHERTY CONSULTING ENGINEERS

Structural & Civil

Docherty Consulting Engineers Pty Ltd. ABN 74 105 101 540. ACN 105 101 540.
23 Coleridge Street, Coleraine, NSW 2097. p/02 9344 0662. email: kdocherty@dochenet.com.au

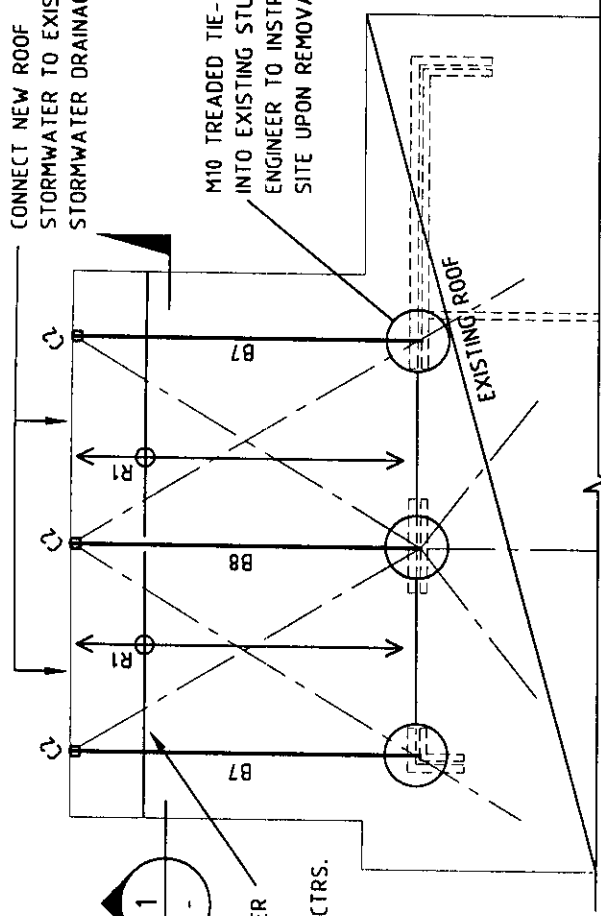
Project
**ALTERATIONS TO EXISTING DWELLING
39 CALVERT PARADE, NEWPORT**
For Mr and Mrs O'MARA

Drawn	Approved
KRD	K R DOCHERTY
Date	Purpose of Issue
30/6/05	CONSTRUCTION
Scale	Shown
A3	A3
Sheet No	Proj No
50602	S04
Rev	0

CONNECT NEW ROOF
STORMWATER TO EXISTING
STORMWATER DRAINAGE SYSTEM

M10 TREADED TIE-DOWN ROD
INTO EXISTING STUD WALL.
ENGINEER TO INSTRUCT ON
SITE UPON REMOVAL OF LINING.

MATCH EXISTING RAFTER
SIZE. MINIMUM RAFTER
140x45 KD F7 AT 600 CTRS.

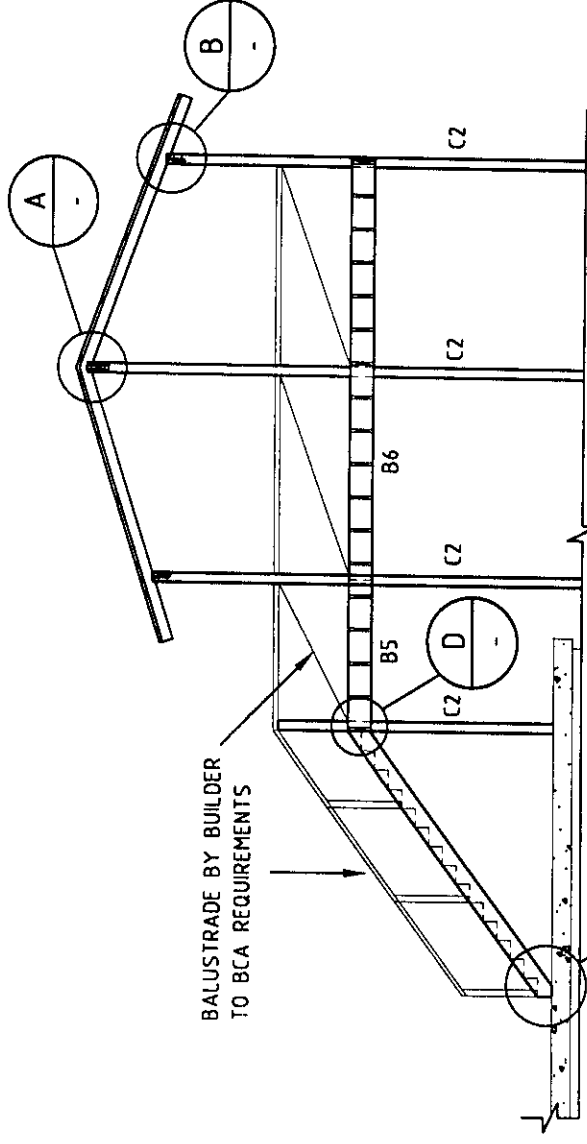


ROOF PLAN

SCALE 1:100

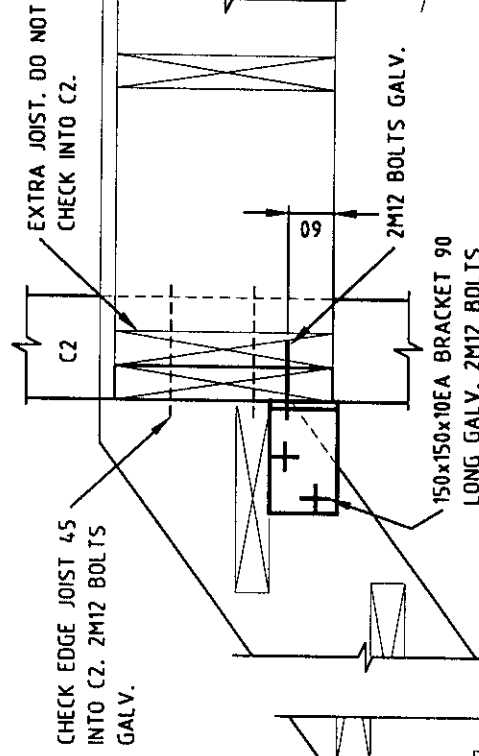
MEMBER SCHEDULE

- B7 240x65 GL10 H3 TREATED PRIMED TIMBER BEAM
- B8 290x65 GL10 H3 TREATED PRIMED TIMBER BEAM
- R1 140x45 KD F7 AT 600 CTRS (MINIMUM REQUIREMENT)
- C2 135x135 H3 TREATED PRIMED TIMBER POSTS CONTINUOUS



SECTION 1

SCALE 1:100

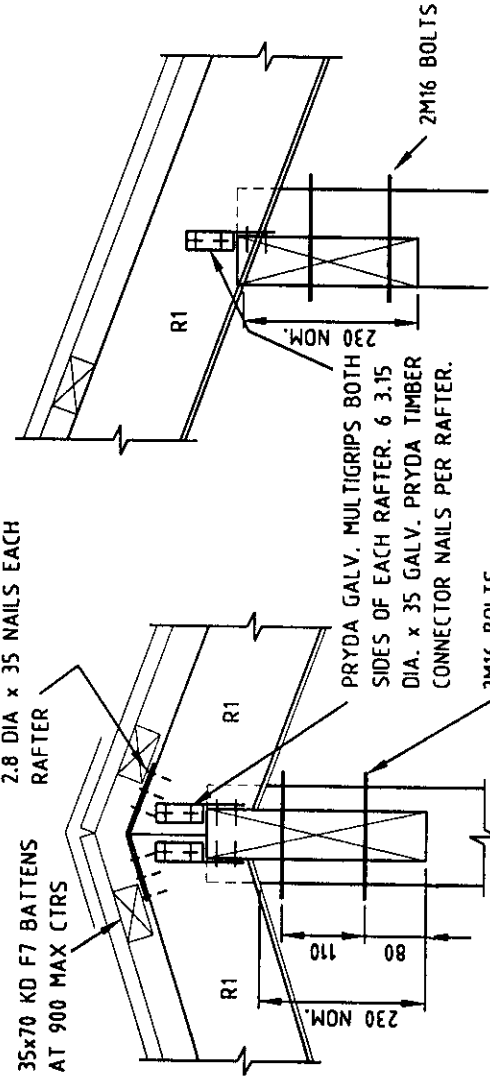


DETAIL D

SCALE 1:10

GALV. METAL STRAP & 3
2.8 DIA x 35 NAILS EACH
RAFTER

35x70 KD F7 BATTENS
AT 900 MAX CTRS



DETAIL A

SCALE 1:10

DETAIL B

SCALE 1:10

DETAIL C

SCALE 1:10

DETAIL D

SCALE 1:10

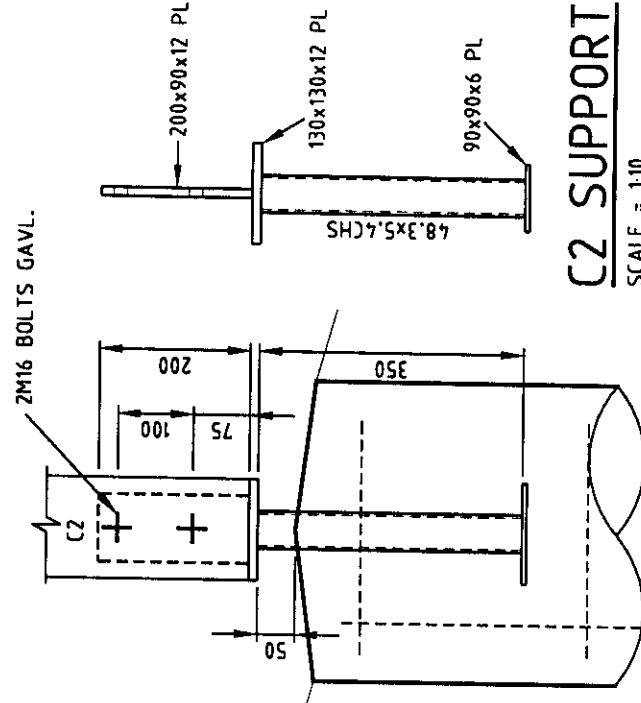
DETAIL E

SCALE 1:10

C2 SUPPORT

SCALE 1:10

HOT DIP GALV.



THE CERTIFICATION GROUP PTY LTD
APPROVED CONSTRUCTION CERTIFICATE
DOCUMENTATION.

COUNCIL COPY

PLAN CERTIFICATION
I am a Structural Engineer holding the qualification of BE (Civil) and
ME (Structural) and I am appropriately qualified to certify the structural
components of this project. I hereby state that these plans and details
comply with the conditions of development consent, the provisions of the
Building Code of Australia and/or relevant Australian/Industry Standards.

Kyle Docherty BE ME PEng
Docherty Consulting Engineers Pty Ltd

DOCHERTY CONSULTING ENGINEERS

Docherty Consulting Engineers Pty Ltd ABN 74 105 101 540 ACN 105 101 540
23 Claudre Street, Cobarro Plateau, NSW 2097 ph/fax 02 9944 0662 email: kdocherty@docherty.com.au

Project
ALTERATIONS TO EXISTING DWELLING
39 CALVERT PARADE, NEWPORT
For Mr and Mrs O'MARA

Drawing Title
ROOF PLAN AND DETAILS

Drawn	KRD	Approved	K R DOCHERTY
Date	30/6/05	Purpose of Issue	CONSTRUCTION
Scale	Shown	Sheet	Project No
A3	50602	Drng No	S05
0			



SCALE 1:150

STORMWATER DRAINAGE NOTES:

1. ANY NEW STORMWATER PIPES TO BE LAID AT MINIMUM 1% GRADE.
2. PROVIDE CLEANING EYES AT ALL NEW DOWN PIPES.
3. ALL WORK TO BE IN ACCORDANCE WITH AS 3500 AND COUNCIL REQUIREMENTS.
4. ALL PIPES AND PITS ARE TO BE CLEAR OF TREE ROOTS AND DEBRIS.

THE CERTIFICATION GROUP PTY LTD
APPROVED CONSTRUCTION CERTIFICATE
DOCUMENTATION.

COUNCIL COPY

[illegible]

COUNCIL COPY

**GEOTECHNICAL RISK MANAGEMENT POLICY FOR PITTWATER
FORM NO. 2 - To be submitted with detailed design for construction certificate**

Development Application for PETER DOWNES

Name of Applicant

Address of site 39 CALVERT PDE, NEWPORT

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

I, KYLE DOHERTY on behalf of DOHERTY CONSULTING ENGINEERS P/L
(insert name) (trading or company name)

on this the 30-6-05
(date)

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

Geotechnical Report Details:

Report Title GEOTECHNICAL INVESTIGATION/STABILITY ASSESSMENT #10708/14A
Report Date 15 MARCH 2005
Author GEOTECHNIQUE PT LTD

Structural Documents list:

<u>50602501/0</u>	<u>50602504/0</u>
<u>50602502/0</u>	<u>50602505/0</u>
<u>50602503/0</u>	

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.

KYLE ROBERT DOHERTY (name) [Signature] (signature)

Declaration made by Geotechnical Engineer or Engineering Geologist in relation to Structural Drawings

I prepared and/or technically verified the abovementioned Geotechnical Report as per Form 1 dated 15-3-05 and now certify that I have viewed the above listed structural documents prepared for the same development. I am satisfied that the recommendations given in the Geotechnical Report have been appropriately taken into account by the structural engineer in the preparation of these structural documents. I am 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 [Signature]
Name INDRA JWOCHAN
Chartered Professional Status CPEng
Membership No 806995



DN NO 135/05

(O'MARA 39 CALVERT MDE. NEWBURY BEACH.)

COLOURS

B8 → The proposed new roof sheeting will be Colorbond "Windspray".



CONCLUSION

The proposed development complies with the intent of all Council's policies, enhances the natural and built environments and should receive favourable consideration during the approval process.

THE CERTIFICATION GROUP PTY LTD
APPROVED CONSTRUCTION CERTIFICATE
DOCUMENTATION.

Peter Downes

COUNCIL COPY

B7 → CURRENT EXTERNAL COLOURS

BRICK = SANDY DESERT

TIMBER = MISSION BROWN

(THIS IS PAGE 6 FROM STATEMENT OF ENVIRONMENTAL EFFECTS BY P. DOWNES)



**DOCHERTY
CONSULTING
ENGINEERS**

Structural and Civil

THE CERTIFICATION GROUP PTY LTD
APPROVED CONSTRUCTION CERTIFICATE
DOCUMENTATION.

30 June 2005

COUNCIL COPY

Our Ref: 50602C1

**Structural Engineer's Certificate
Structural Design Certification**

**Alteration and Addition at
39 Calvert Parade, Newport for
Mr & Mrs O'Mara**

We hereby certify that the structural drawings produced for the above project have been designed in accordance with Geotechnical Investigation/Stability Assessment report No. 10708/1-AA dated 15 March 2005, prepared by Geotechnique Pty Ltd, and the following Australian Standards:

- ☐ AS 1170 Minimum design loads on structures,
- ☐ AS 1684 Residential timber framed construction,
- ☐ AS 1720 Timber structures,
- ☐ AS 2870 Residential slabs and footings-construction,
- ☐ AS 3600 Concrete structures,
- ☐ AS 4100 Steel structures.

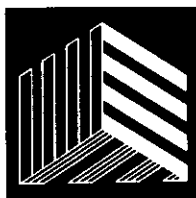
We have issued the following drawings covered by this certification:

- ☐ 50602S01 Rev 0 Constructions notes
- ☐ 50602S02 Rev 0 Carport footing and roof plan
- ☐ 50602S03 Rev 0 Carport sections and details
- ☐ 50602S04 Rev 0 Deck plan and details
- ☐ 50602S05 Rev 0 Roof plan and details

Yours faithfully,

Docherty Consulting Engineers Pty Ltd

K R Docherty
BE ME PEng
Director



**DOCHERTY
CONSULTING
ENGINEERS**

Structural and Civil

THE CERTIFICATION GROUP PTY LTD
APPROVED CONSTRUCTION CERTIFICATE
DOCUMENTATION.

30 June 2005

COUNCIL COPY

Our Ref: 50602C2

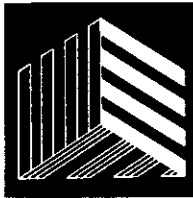
**Structural Engineer's Certificate
Adequacy of Existing Structure**

**Alteration and Addition at
39 Calvert Parade, Newport for
Mr & Mrs O'Mara**

We hereby certify that the existing structure is structurally adequate to support the proposed alterations and additions. This certification is subject to any modifications deemed necessary during construction.

Yours faithfully,
Docherty Consulting Engineers Pty Ltd

K R Docherty
BE ME PEng
Director



**DOCHERTY
CONSULTING
ENGINEERS**
Structural and Civil

THE CERTIFICATION GROUP PTY LTD
APPROVED CONSTRUCTION CERTIFICATE
DOCUMENTATION.

30 June 2005

COUNCIL COPY

Our Ref: 50602C3

**Civil Engineer's Certificate
Adequacy of Existing Stormwater System**

**Alteration and Additions at
39 Calvert Parade, Newport
for Mr & Mrs O'Mara**

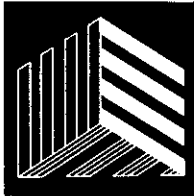
We hereby certify that the existing stormwater drainage system at the above-mentioned property performs satisfactorily and is capable of servicing the proposed additions.

We have issued the following drawing covered by this certification:

□ 50602C01 Rev 0 Stormwater management plan.

Yours faithfully,
Docherty Consulting Engineers Pty Ltd

K R Docherty
BE ME PEng
Director



**DOCHERTY
CONSULTING
ENGINEERS**
Structural and Civil

THE CERTIFICATION GROUP PTY LTD
APPROVED CONSTRUCTION CERTIFICATE
DOCUMENTATION.

30 June 2005

COUNCIL COPY

Our Ref: 50602C4

**Civil Engineer's Certificate
Development Consent Condition C7**

**Alteration and Additions at
39 Calvert Parade, Newport
for Mr & Mrs O'Mara**

We hereby certify that the proposed alterations and additions do not require any cut or fill earthworks. The foundation works for this project are limited to five 400mm diameter bored piers into natural ground.

It is our opinion that condition C7 of the Development Consent is not applicable to this project as there is no excavation: therefore, intercept drains and retention of cut batters are not required.

Yours faithfully,
Docherty Consulting Engineers Pty Ltd

K R Docherty
BE ME PEng
Director

11/17/2002 1:15 PM

WILLIAM H. BROWN JR.

$$P_{\text{max}} = 26.94 \text{ MPa} \cdot \text{mm}^{-1/2} \cdot \text{mm}^{-1/2} \cdot \text{mm}^{-1/2} \cdot \text{mm}^{-1/2}$$

1997, 1998, 1999, 2000, 2001, 2002, 2003, 2004, 2005, 2006, 2007, 2008, 2009, 2010, 2011, 2012, 2013, 2014, 2015, 2016, 2017, 2018, 2019, 2020, 2021, 2022, 2023, 2024, 2025, 2026, 2027, 2028, 2029, 2030, 2031, 2032, 2033, 2034, 2035, 2036, 2037, 2038, 2039, 2040, 2041, 2042, 2043, 2044, 2045, 2046, 2047, 2048, 2049, 2050, 2051, 2052, 2053, 2054, 2055, 2056, 2057, 2058, 2059, 2060, 2061, 2062, 2063, 2064, 2065, 2066, 2067, 2068, 2069, 2070, 2071, 2072, 2073, 2074, 2075, 2076, 2077, 2078, 2079, 2080, 2081, 2082, 2083, 2084, 2085, 2086, 2087, 2088, 2089, 2090, 2091, 2092, 2093, 2094, 2095, 2096, 2097, 2098, 2099, 2100, 2101, 2102, 2103, 2104, 2105, 2106, 2107, 2108, 2109, 2110, 2111, 2112, 2113, 2114, 2115, 2116, 2117, 2118, 2119, 2120, 2121, 2122, 2123, 2124, 2125, 2126, 2127, 2128, 2129, 2130, 2131, 2132, 2133, 2134, 2135, 2136, 2137, 2138, 2139, 2140, 2141, 2142, 2143, 2144, 2145, 2146, 2147, 2148, 2149, 2150, 2151, 2152, 2153, 2154, 2155, 2156, 2157, 2158, 2159, 2160, 2161, 2162, 2163, 2164, 2165, 2166, 2167, 2168, 2169, 2170, 2171, 2172, 2173, 2174, 2175, 2176, 2177, 2178, 2179, 2180, 2181, 2182, 2183, 2184, 2185, 2186, 2187, 2188, 2189, 2190, 2191, 2192, 2193, 2194, 2195, 2196, 2197, 2198, 2199, 2200, 2201, 2202, 2203, 2204, 2205, 2206, 2207, 2208, 2209, 2210, 2211, 2212, 2213, 2214, 2215, 2216, 2217, 2218, 2219, 2220, 2221, 2222, 2223, 2224, 2225, 2226, 2227, 2228, 2229, 2230, 2231, 2232, 2233, 2234, 2235, 2236, 2237, 2238, 2239, 2240, 2241, 2242, 2243, 2244, 2245, 2246, 2247, 2248, 2249, 2250, 2251, 2252, 2253, 2254, 2255, 2256, 2257, 2258, 2259, 2260, 2261, 2262, 2263, 2264, 2265, 2266, 2267, 2268, 2269, 2270, 2271, 2272, 2273, 2274, 2275, 2276, 2277, 2278, 2279, 2280, 2281, 2282, 2283, 2284, 2285, 2286, 2287, 2288, 2289, 2290, 2291, 2292, 2293, 2294, 2295, 2296, 2297, 2298, 2299, 2300, 2301, 2302, 2303, 2304, 2305, 2306, 2307, 2308, 2309, 2310, 2311, 2312, 2313, 2314, 2315, 2316, 2317, 2318, 2319, 2320, 2321, 2322, 2323, 2324, 2325, 2326, 2327, 2328, 2329, 2330, 2331, 2332, 2333, 2334, 2335, 2336, 2337, 2338, 2339, 2340, 2341, 2342, 2343, 2344, 2345, 2346, 2347, 2348, 2349, 2350, 2351, 2352, 2353, 2354, 2355, 2356, 2357, 2358, 2359, 2360, 2361, 2362, 2363, 2364, 2365, 2366, 2367, 2368, 2369, 2370, 2371, 2372, 2373, 2374, 2375, 2376, 2377, 2378, 2379, 2380, 2381, 2382, 2383, 2384, 2385, 2386, 2387, 2388, 2389, 2390, 2391, 2392, 2393, 2394, 2395, 2396, 2397, 2398, 2399, 2400, 2401, 2402, 2403, 2404, 2405, 2406, 2407, 2408, 2409, 2410, 2411, 2412, 2413, 2414, 2415, 2416, 2417, 2418, 2419, 2420, 2421, 2422, 2423, 2424, 2425, 2426, 2427, 2428, 2429, 2430, 2431, 2432, 2433, 2434, 2435, 2436, 2437, 2438, 2439, 2440, 2441, 2442, 2443, 2444, 2445, 2446, 2447, 2448, 2449, 2450, 2451, 2452, 2453, 2454, 2455, 2456, 2457, 2458, 2459, 2460, 2461, 2462, 2463, 2464, 2465, 2466, 2467, 2468, 2469, 2470, 2471, 2472, 2473, 2474, 2475, 2476, 2477, 2478, 2479, 2480, 2481, 2482, 2483, 2484, 2485, 2486, 2487, 2488, 2489, 2490, 2491, 2492, 2493, 2494, 2495, 2496, 2497, 2498, 2499, 2500, 2501, 2502, 2503, 2504, 2505, 2506, 2507, 2508, 2509, 2510, 2511, 2512, 2513, 2514, 2515, 2516, 2517, 2518, 2519, 2520, 2521, 2522, 2523, 2524, 2525, 2526, 2527, 2528, 2529, 2530, 2531, 2532, 2533, 2534, 2535, 2536, 2537, 2538, 2539, 2540, 2541, 2542, 2543, 2544, 2545, 2546, 2547, 2548, 2549, 2550, 2551, 2552, 2553, 2554, 2555, 2556, 2557, 2558, 2559, 2560, 2561, 2562, 2563, 2564, 2565, 2566, 2567, 2568, 2569, 2570, 2571, 2572, 2573, 2574, 2575, 2576, 2577, 2578, 2579, 2580, 2581, 2582, 2583, 2584, 2585, 2586, 2587, 2588, 2589, 2590, 2591, 2592, 2593, 2594, 2595, 2596, 2597, 2598, 2599, 2600, 2601, 2602, 2603, 2604, 2605, 2606, 2607, 2608, 2609, 2610, 2611, 2612, 2613, 2614, 2615, 2616, 2617, 2618, 2619, 2620, 2621, 2622, 2623, 2624, 2625, 2626, 2627, 2628, 2629, 2630, 2631, 2632, 2633, 2634, 2635, 2636, 2637, 2638, 2639, 2640, 2641, 2642, 2643, 2644, 2645, 2646, 2647, 2648, 2649, 2650, 2651, 2652, 2653, 2654, 2655, 2656, 2657, 2658, 2659, 2660, 2661, 2662, 2663, 2664, 2665, 2666, 2667, 2668, 2669, 2670, 2671, 2672, 2673, 2674, 2675, 2676, 2677, 2678, 26

Journal of Interpersonal Violence 20(16) 2017-2039

1. $\log_{10} \frac{1}{\lambda}$ vs. $\log_{10} \lambda$ (Fig. 1)

Figure 1. *Staphylococcus aureus* strains used in this study.

^a χ^2 = 1.02, df = 1, p = .315.
^b χ^2 = 1.02, df = 1, p = .315.
^c χ^2 = 1.02, df = 1, p = .315.

• **What is the purpose of the study?** The purpose of the study is to determine the effect of a 12-week resistance training program on the strength and endurance of the lower extremities in healthy young adults.