

ABN: 92 161 548 625 PO Box 80, Thornleigh NSW 2120 ph: 9473 5488 fax: 9980 2166

CONSTRUCTION CERTIFICATE No:

Signature: Dom Di Matteo **Approval Date:** 29/11/2013 I certify that work completed in accordance with documentation accompanying the application for the Certificate (with such modifications verified by the certifying authority as may be shown on that documentation) will comply with the requirements of this Regulation as are referred to in Section 81A(5) of the Act. Issued in accordance with the provisions of the Environmental & Assessment Act of 1979 under Sections 109C(1)(b) and 109F

Date Application Received:

11/11/2013

Application Date:

25/11/2013

Council:

Pittwater Council

Development Consent No:

Name of Certifying Authority:

Accreditation No:

Accreditation Body:

N0221/13

Approval Date:

11/11/2013

Dom Di Matteo

1869

BUILDING PROFESSIONALS BOARD

Applicant: Address:

Keith Charles Cox & Hiu Yu Carol Leung C/- Rawson Homes Pty Ltd

Contact Number:

PO Box 3099 Rhodes 2138 8765 5500

Owner: Address: Keith Charles Cox & Hiu Yu Carol Leung 94 Desmond Street Merrylands 2160

Contact Number:

0414 742 536

Site Address:

Lot 4 DP 270730 No 3 Ibis Place Warriewood 2102

Description of Development:

Construction of a new two storey dwelling with

attached garage

Building Code of Australia Classification:

Value of Work:

\$380286.00

Builder Details

Name: Licence / Permit

Rawson Homes Pty Ltd

Number:

33493C

Address:

PO Box 3099 Rhodes 2138

Contact Number:

8765 5500

Approved Plans and Documents Plans Prepared By Drawing Nos. Dated Rawson Homes Pty Ltd A Total Concept Job J002654 Drawing 1 - 12 Issue E 18/11/2013 Project Rawson Drawing L/01 Issue B 13/11/2013 Rawson Homes Pty Ltd **External Colour Selections** Undated BASIX 487416S_04 29/10/2013 HIA Specifications Undated Engineer Details **Drawing Nos.** Dated Residential Engineering Job RW1214 Sheet 01/08 - 08/08 Issue B 13/11/2013 Nasseri Associates Job D2813 Sheet 1 - 4 Issue A 29/07/2013



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Applicati	on for Sec	ction 1	139 Co	nsent to	Work	in a	Public	Road
Reserve ((including	Drive	eways)					

PLÉASE PRINT			
Applicant / Owner: RAWSON HOMES PTT	LTO		•••••
Company Name (if applicable):			
Postal Address: PO Box 3099 Rhodes	Post	code:	-138
Phone (Work): \$745 5500 Phone (Mobile):			
Applicant Name: Ranson Hones Ph Lad Name: Ph	p.5.50.50	ecd	مولمه
Signature: Signature:			•••••
Date:12 . 11	***************************************	•••••	
Property Address: Lot + No. 3 1615 Pace L	Jarrian	1000	•••••
Development Application (DA) No. (where applicable):			
Nature of Work: Driveway Retaining wall (specify type)		
Road pavement			
Kerb and gutter			
Plans are to be attached (Yes)/ No			
Description of works: Construction of driver	~~~		
Note A: Residential - single dwelling & dual occupancy in association with a Development Consent		FFFO	
	11 50	FEES DA	DA
Note B: Other than residential – single dwelling and dual occupancy in association with a Development Consent	No DA required	(see Note A)	(see Note B)
Access Driveway only across road reserve (boundary to pavement edge) and Landscape Treatment (includes 2 site inspections) per allotment.	\$270	\$320	\$370
Access Driveway and/or retaining structures / stair structures / special andscape treatment (includes 2 site inspections) per allotment	\$430	\$430	\$640
Fee per additional site inspection	\$270	\$270	\$270
 This application will not be considered until the required fees have This application does NOT constitute an approval to commence or production as A Section 139 Consent is required under the Roads Act 1993. Following payment of the required fees, the application will be assessed Business Unit. If the application is approved, a written consent, includin Road Authority (Council). WORK MAY ONLY COMMENCE FOLLOWING RECEIPT OF THE WILL COUNCIL. THE CONSENT MUST BE KEPT ON SITE AT ALL TIMES 	eed with any vertically by Council's and conditions, and constitutions, are constituted to the constitute of the constit	Urban Infra will be issue	ed by the
Office Use Only: (1.7.2013 - 30.6.2014)	COI	DE: EREC	
ate Fee: \$770 when work commenced prior to issue of Section 139 Conse		_	
EE: \$30.00 RECEIPT NO: 353394 ISSUED BY: Dioun		re: 5/12	113
	: (02) 9970 11	180	

NOTE TO CUSTOMER SERVICE:
PHOTOCOPY APPLICATION FORM AND STAPLE WITH RECEIPT FOR CUSTOMER'S RECORD

Rawson Homes Pty Limited

PQ Box 3099, Rhodes NSW 2138 Building F, Level 2, Suite 1 1 Homebush Bay Drive Rhodes NSW 2138

ABN 67 053 733 841



->

Pittwater Council **MONA VALE NSW 2103**

Payment advice

Document Date 13.11.2013 Telephone (02) 8765 5500 Email

accounts@rawson.net.au

Your account with us

100730

<- Fold here --

Dear Sir/Madam,

Please find enclosed our cheque, number 009619 to clear the items listed below:

Your document	Date	Deductions	Gross amount
J2654	12.11.2013	0.00	320.00
Sum total		0.00	320.00

Rawson is moving to a new location! From Friday 16th August, our head office details will be:

1 Homebush Bay Drive, Building F, Level 2, Suite 1, Rhodes NSW 2138 PO Box 3099, Rhodes NSW 2138 DX 23814 Strathfield Exchange Main phone number: (02) 8765 5500

Fax Number: (02) 8765 8099

Please direct all correspondence to this new address.

Date 13.11.2013

Payment amount **********320.00*

<-

Mr Keith Charles Cox and Ms Hiu Yu Carol Leung 94 Desmond Street Merrylands NSW 2160

Rawson Homes Pty Ltd Homebush Business Village 34, 11-21 Underwood Road Homebush NSW 2140

- - i. i

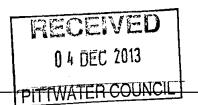
LETTER O	F AUTHORIT	Y
Applicatio	n, Construc	awson Homes Pty Limited the authority to submit a Development tion Certificate Application and any other Applications required by the nour behalf.
	give consent	for authorised Council officers to enter the land to carry out inspections. Lot 4 Ibis Place, Warriewood
NAME	KEITH	CHARLES COX HIG YO CAROL LEUNG
SIGNED	KCC.	- Coc
DATE	14/1	2 12
:		

Client: KC



Notice to council of determination of application for a certificate

Council Copy



NOTICE TO (Insert council's details and address)

Council name
Pittwater Council

SECTION A. NOTICE

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

Applicants na	me		Keith Charle	s Cox & Hiu Yu	Carol Leung (C/- Rawson I	Homes Pty Ltd	l		
Development	addre	ess	Lot 4 DP 270	730 No 3 Ibis I	Place Warriewo	ood 2102				
Date received	!	:	11/11/2013			Date determ	nined	29/11/2013		
SECTION	3.	Attachm	ents (tick a	appropriate	box(es))		:			
Application certificate	for o	construction	Determinat application	on of	Construction	ı Certificate	Record of the clause Regulation	inspection made 143B of the	Other endorsed lodged with the app the certificate or recunder clause 140 of Regulation	lication for eived
SECTION	3.	Certifyin	g Authorit	y					:	
Name Domenic Di	Matt	90				>	Signati	ıre		
Accreditation	No.									
1869							Date 2	9/11/2013	† :	
							•			
									:	
			2 1							
			\$3(o Rec	Z:35	}27)	4/12	/,3	
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0, SERVING TO SERVING THE NORTH EGEND 26.15.17.14.45. 11 기원 THE REPORT S3 - S1 11 thefore joud alcomical Note NOTA DO NOTE: CONTOURS SHOWN HAVE BEEN INTERPOLATED FROM SPOT LEVELS TAKEN ON-SITE AND ARE A REPRESENTATION OF THE TOPOGRAPHY ONLY. LEGEND SERVICES SHOWN HAVE BEEN LOCATED WHERE POSSIBLE BY FIELD SURVEY, PRIOR TO ANY SITE WORKS, THE RELEVANT AUTHORITY SHOULD BE CONTACTED TO DETERMINE EXACT POSITION OF ANY UNDERGROUND PIPES, CABLES ETC. DIMENSIONS SHOWN (BEARINGS & DISTANCES) HAVE BEEN DETERMINED BY LAND AND PROPERTY INFORMATION PLANS ONLY. BOUNDARIES HAVE NOT BEEN ACCURATELY DETERMINED. KO. DENOTES KRB OUTLET
WC.EC.TC. DENOTES SERVICE CONDUIT
SV. DENOTES STOP VALVE
HYD. DENOTES HYDRANT PRIVATE OPEN SPACE = 71.00 m² 151,298/2 ESTIMATED DRIVEWAY & 53,685.27 GROUND FLOOR
FIRST FLOOR
TOTAL LIVING AREA
SITE AREA TOTAL BUILT UPON AREA BUILDING FOOTPRINT FLOOR SPACE RATIO LANDSCAPE AREA SITE CALCULATIONS 118.07 m² 120.47 m² 238.54 m² 303.10 m² 113.90 m² 171.80 m²
17.40 m² 62.42 % 0.79 :1 COLOURED CONC DRIVEWAY & ()
FRONT PATH BY RAWSON.
(EXCLUDING NEW LAYBACK) BRICK PIER WITH INSET LETTERBOX EAS-MENT FASEMENT FOR WALER SUPPLY PURPOSE EASEMENT FOR WATER SUPPLY PURPOSE EASEMENT TO DRAIN WATER 6 てし 45v 3/4 2/4 Ě \oplus FOR SERVICES 1.65 WIDE & FRONT 5500 $\dot{\circ}$ 4430 GARAGE ACCESS, BUILDING, MAINTENANCE &

RAWSON HOMES

UNIT 34/11-21 UNDERWOOD ROAD HOMEBUSH NSW 2140 TELEPHONE 02 9764 6442

SITE ADDRESS:

CLIENT:

707

HOUSE TYPE

WIDI & V

ARIABLE WIDTH (DP 1151062)

3 0.85 WID=

1.65 WID:

17.73E

SUPPORT 0.9

MDI

DRAWN BY:

DATE DRAWN: CHECKED BY:

MR COX & MS LEUNG

LOT 4 (DP:270730)

IBIS PLACE

WARRIEWOOD

SITE PLAN DRAWING TITLE:

MODEL: KEMPSEY 30
FACADE: TREND
TYPE: SINGLE GARAGE
SPECIFICATION: LUXE + GOLD

PITTWATER JOB No: COUNCIL AREA: X

24.01.13 SCALE: DRWG No: Checker 2 1:200 ISSUE: Q

BEFORE STARTING WORK ON SITE CHECK FOLLOWING:
1. SERVICE LOCATIONS
2. SEWER CONNECTION POSITION
3. DRIVEWAY ALIGNMENT & LEVELS SITE NOTES:

dp INDICATES DOWNPIPE LOCATION

LOT 3

LOT 2

VACANI

MACAMI

132^

50"

NANA A

16m2 (4.0x4.0)
—PRIVATE
OPEN SPACE

2500 PARALLEL

---25.32

100 FJLL

253v 12 05'

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VAC AMT

TREATED PINE RETAINING WALL & L&C TIMBER FENCE BY RAWSON LOT 5

3121

SID

CLOTHES/

REAR

100 FILL

25.1 -27

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GARAGE _FFL:7.925

RESIDENCE PROPOSED

FGL:7.700

260 CÙT

DIAL1100

DIMENSIONS OF ANY TREES SHOWN ON THE PLAN ARE APPROX

NOTES:

PLEASE NOTE: DETAILS SHOWN ON THESE PLANS ARE INTENDED TO BE ACCURATE - HOWEVER INFORMATION WRITTEN INTO INDIVIDUAL CONTRACTS WILL TAKE PRECEDENCE OVER PLANS

ALL DIMENSIONS ARE IN MILLIMETRES DO NOT SCALE - USE WRITTEN DIMENSIONS

Builder's licence No. 33493C FAX 02 9764 6992

J002654

APPROVED FOR CONSTRUCTION:

i.

Home Warranty Insurance Certificate of Insurance

Policy Number BNR033211BWI-465





MR KEITH CHARLES COX & 94 DESMOND STREET MERRYLANDS 2160

Name of Intermediary FINSURA INSUR BROKERS PTY LTD P O BOX 686 CASTLE HILL NSW 1765

Account Number BN2085264 Date Issued 30/09/2013

Policy Schedule Details

Certificate in Respect of Insurance

Residential Building Work by Contractors

A contract of insurance complying with sections 92 and 96 of the Home Building Act 1989 has been issued by QBE Insurance (Australia) Limited 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

Carried Out By

NEW SINGLE DWELLING CONSTRUCTION CONTRACT

Áŧ

LOT 4. IBIS PLACE

WARRIEWOOD NSW 2102

BUILDER

RAWSON HOMES PTY LTD

ABN: 67 053 733 841

Declared Contract Price

\$385,259.00

Contract Date

01/10/2013

Builders Registration No.

U 33493C

Building Owner / Beneficiary

MR KEITH CHARLES COX & MS HIU YU CAROL LEUNG

\$ubject to the Act and the Home Building Regulation 2004 and the conditions of the insurance contract, cover will be provided to the Building Owner/Beneficiary named in the domestic building contract and to the successors in title to the Building Owner/Beneficiary or the immediate successor in title to the contractor or developer who did the work and subsequent successors in title.

Signed for and on behalf of NSW Self Insurance Corporation (SICorp)

y Ayscough

IMPORTANT NOTICE:

In addition to this certificate of insurance, a policy wording which outlines the terms and conditions of the cover provided is available from the HWIF website. To access that policy wording visit www.homewarranty.nsw.gov.au QM1824-1207



RECEIVED

27 NOV 2013

1-3 Thornleigh St, Thornleigh NSW 2120 P: 9473 5488

F: 9980 2166 E: admin@fbcc.com.au

Council Copy

SECTION 1: APPLICATION FORM

- 1. APPLICATION FOR CONSTRUCTION/COMPLYING DEVELOPMENT CERTIFICATE
 - 2. CONTRACT FOR THE PERFORMANCE OF BUILDING CERTIFICATION WORK

Principal Certifying Authority Agreement, Issued under the Environmental Planning & Assessment Act 1979

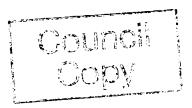
Privacy policy – The information you provide in this application will enable your application to be assessed by the certifying authority under the Environmental Planning and Assessment Act 1979. If the information is not provided, your application may not be accepted. The application can potentially be viewed by members of the public. Please contact D M Certifiers if the information you have provided in your application is incorrect or requires modification.

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	Construction Certificate
	□ Complying Development Certificate
	Contract agreement for the performance of Building Certification Work
	□ Engagement as Principal Certifying Authority
	Date of Receipt of Application: Development Consent No: No 221 / 13 Approval Date: 6th Nov 13
	Development Consent No: No 221/13 Approval Date: 6th 1000 13
	Name of Consent Authority: ************************************
	APPLICANT (This MUST Be the Owner/Authorised Agent)
	Name/s: Ranson Homes Pt, Ud
	Postal Address: PO Box 3099 Rhodes 2138
	Postal Address: 1000 3017 2003 213
	Ph. 8765 5500 Email: angela. 10 Uli Drawson. nod. as
	LAND TO BE DEVELOPED
	No. 3 Street: 15's Place Warriewood
	1 5 7 7 7 9 0
	Lot: 4 DP: 270730 SP:
	DETAILS OF DEVELOPMENT (particulars)
	Description of work: Construction of a double storey
	duella
	15 00 - 150 In
	Estimated Cost of Works: \$385.159 Class of Building: 0
	DETAILS OF BUILDER
	Name: Rayson Homes Ph Ltd License No: 33493C2 E NOV 2013 Address: PO Box 3099 Rhodes Phone No: 87655500 Initialed KC / 6 date 25/11/13
	PO Box 3099 Prode
	Address: Phone No: 01003500
	Initialed KC J. M. date 25 JUL 13



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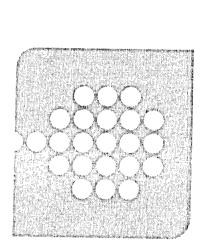
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1-3 Thornleigh St, Thornleigh NSW 2120 P: 9473 5488 F: 9980 2166 E: admin@fbcc.com.au

INSPECTION REPORT FORM

Applicant:	Inspection Type: A-e
	Date Of Inspection:
	Contact on Site: VM ISON HOMPS
	Ph: 8/055500 · Fax:
Booked By:	Email:
Address: NALING DIMO	D MINITAL TO THE PROPERTY OF T
MITIMISTINIC	C'AMMILLON AAAM
<u> </u>	
Notes:	
Result:	
The work is satisfactory	<i>y</i>
Complete the works bel	low and proceed with construction
Complete the works bel	low and request a re-inspection
Contact us immediately	
Provide certificate for _	
Comments:	f
COMMUNIO.	<u> </u>
	-01.102.0
Inspector: Sean Cur	rtis Date: A SIII ZUI3
Accreditation No: 179	
	4



EST 1978 -

This plan/document forms part of the Approved Complying Development Certificate

Issued by DM Certifiers P/L BPB 1869

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SCHEDULE OF DRAWINGS: SHEET

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1 2 2 3 4 4 4 6 6 7 7 7 9 9 9 9 FIRST FLOOR PLAN
ELEVATIONS 1-2
ELEVATIONS 3-4
SECTIONS
SLAB SETOUT PLAN
KIT. & WET AREA DET.
EROSION CONTROL PLAN
SHADOW DIAGRAM
SITE ANALYSIS GROUND FLOOR PLAN COVER SHEET CONTENTS

DRAWN BY: COUNCIL AREA: CERT. COMPLIANCE PLANS B DA PLAN
C AMENDED DA PLANS
D AMENDED DA PLANS
E CERT. COMPLIANCE PLANS SIGNATURE: pre DATE DRAWN: **AMENDMENTS** 24.01.13 DESCRIPTION SCALE: CHECKED BY: Checker APPROVED FOR CONSTRUCTION: S A A B ٧A ВУ DATE
24.01.13
09.05.13
12.07.13
29.10.13
18.11.13

NOTES:

PLEASE NOTE: DETAILS SHOWN ON THESE PLANS ARE INTENDED TO BE ACCURATE - HOWEVER INFORMATION WRITTEN INTO INDIVIDUAL CONTRACTS WILL TAKE PRECEDENCE OVER PLANS

* ALL DIMENSIONS ARE IN MILLIMETRES

* DO NOT SCALE - USE WRITTEN DIMENSIONS

* ALL DIMENSIONS ARE TO STRUCTURAL FRAMES ONLY EXCLUDING FINISHED SURFACES

LEVEL 2, SUITE 1 RHODES NSW 2138 RAWSON HOMES
1 HOMEBUSH BAY DRIVE, BLDG. F

licence No. 33493C

MR COX & MS LEUNG WARRIEWOOD SITE ADDRESS: IBIS PLACE

LOT 4 (DP:270730)

CLIENT:

DRAWING TITLE: SPECIFICATION: LUXE

TYPE: FACADE:

KEMPS TREND SINGLE

SEY 30

_E GARAGE + GOLD

MODEL:

HOUSE TYPE

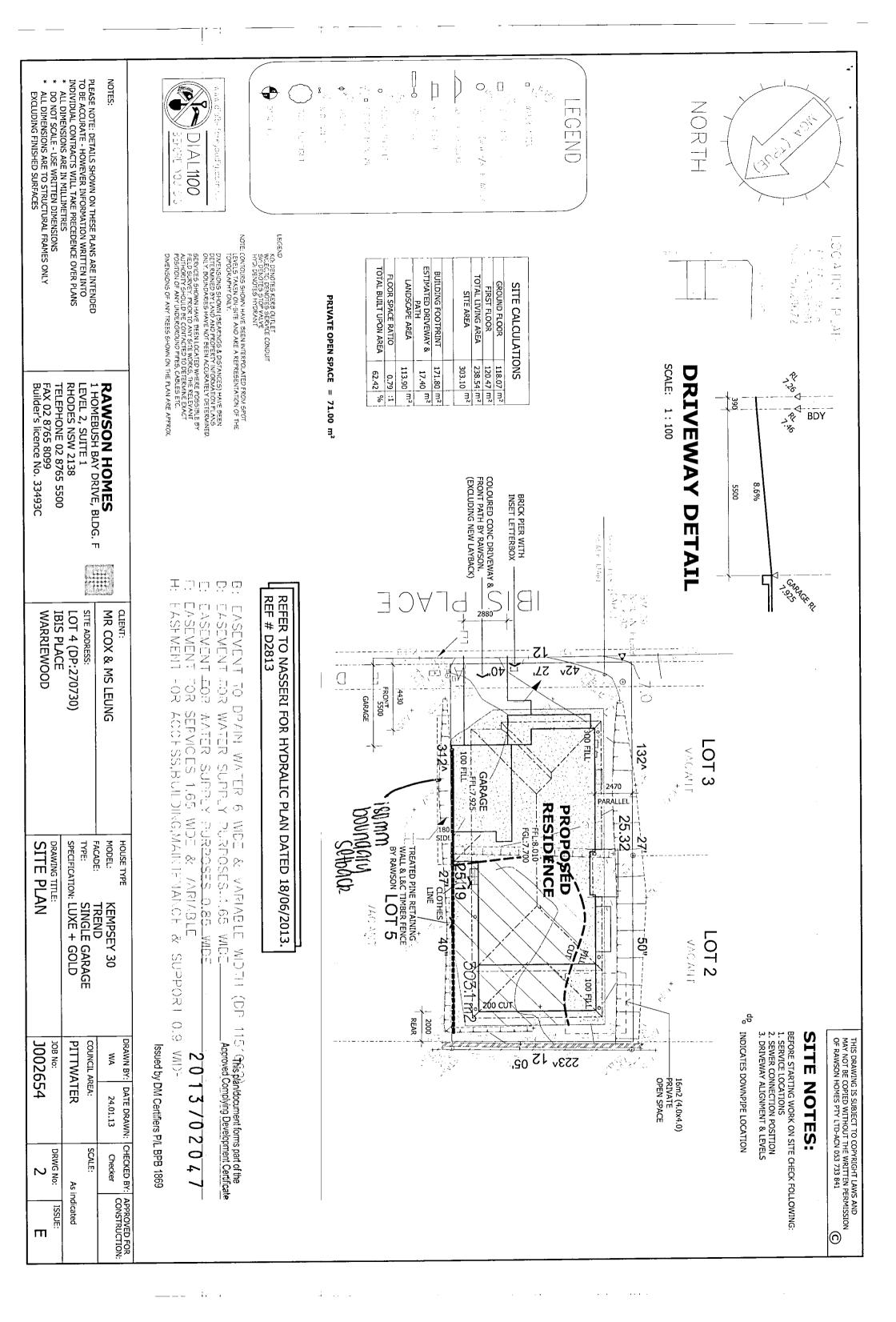
PITTWATER DRWG No: ISSUE: П

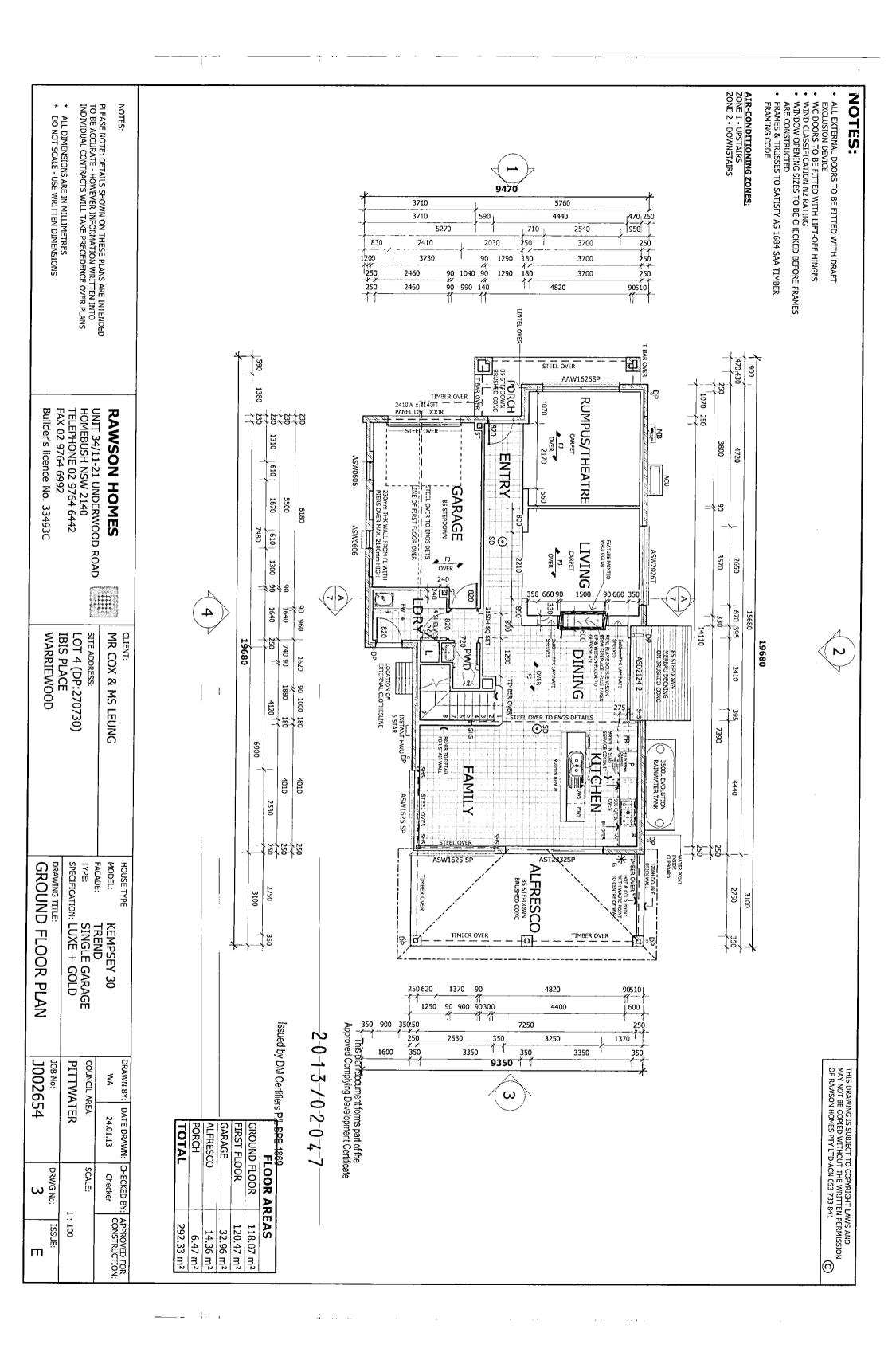
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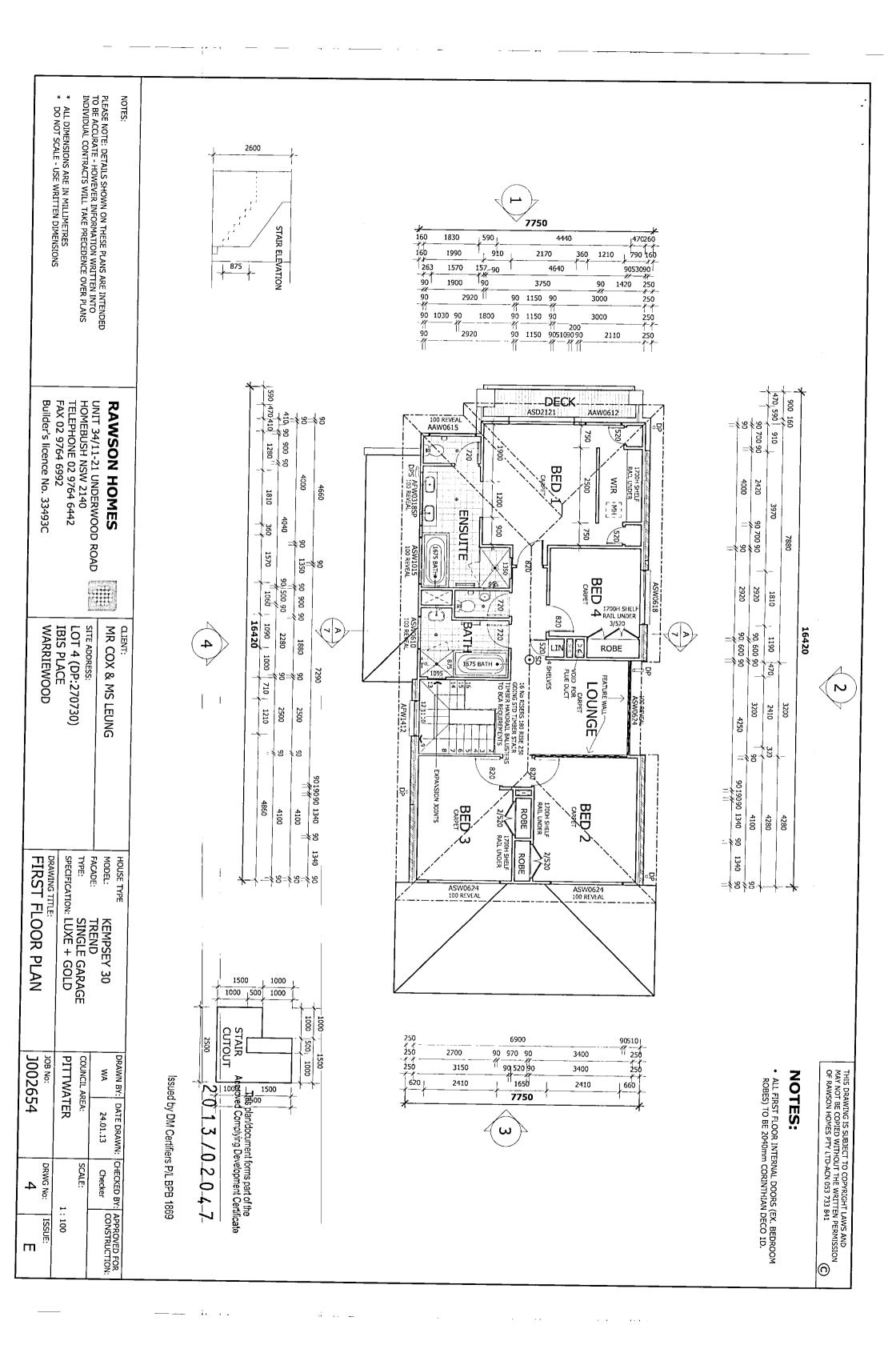
FAX 02 8765 8099 Builder's licence No TELEPHONE 02 8765 5500

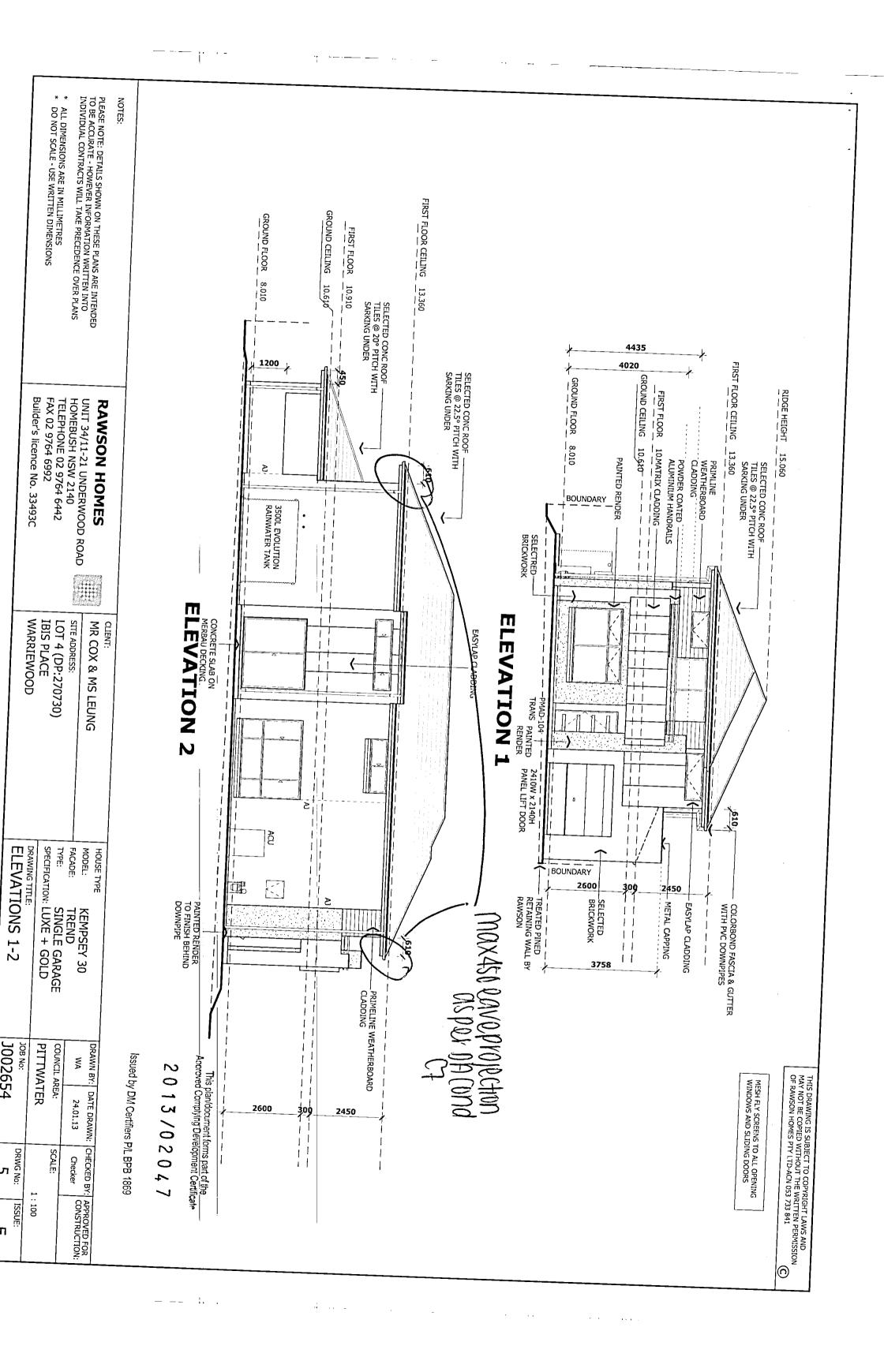
COVER SHEET

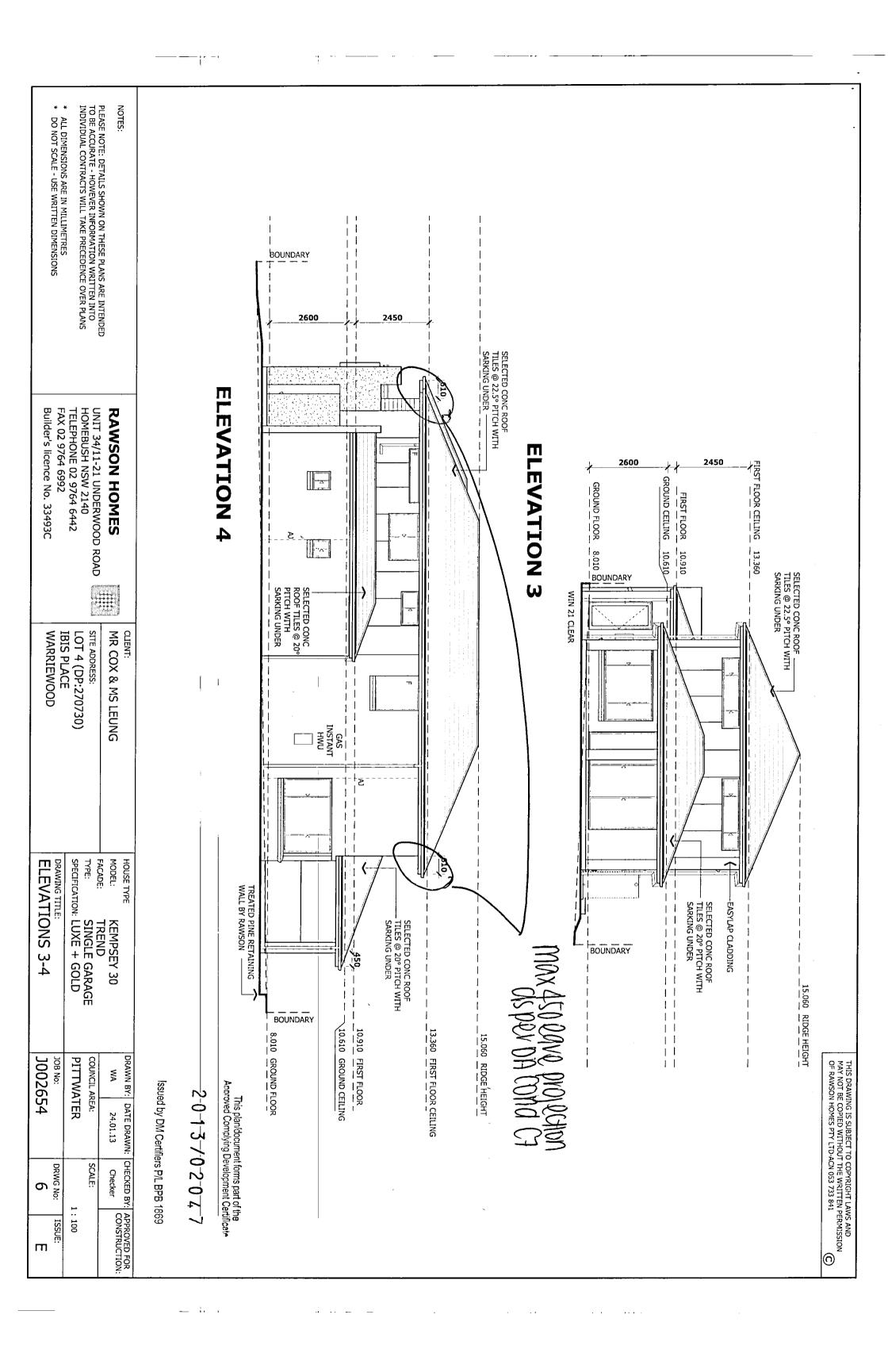
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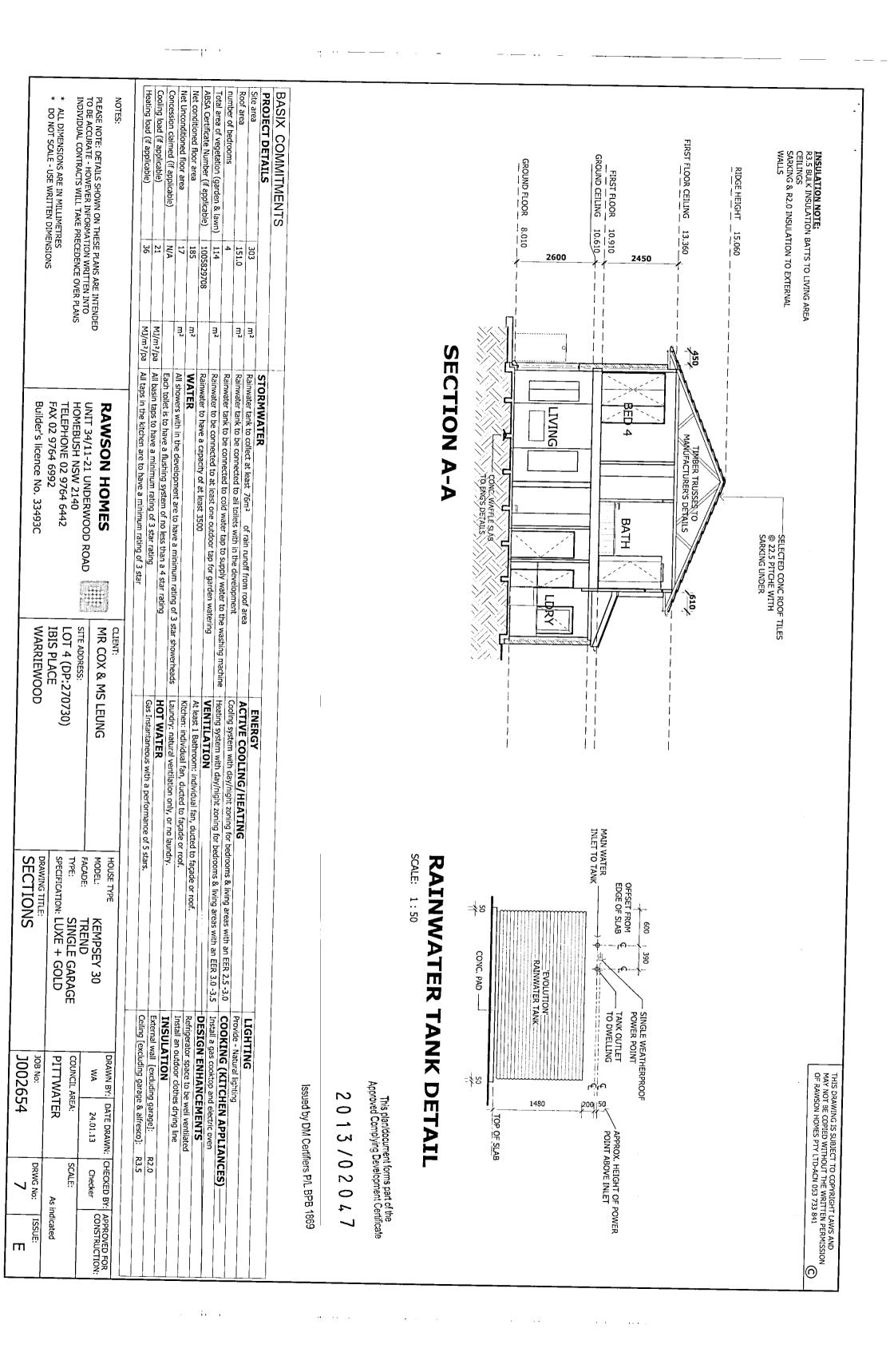


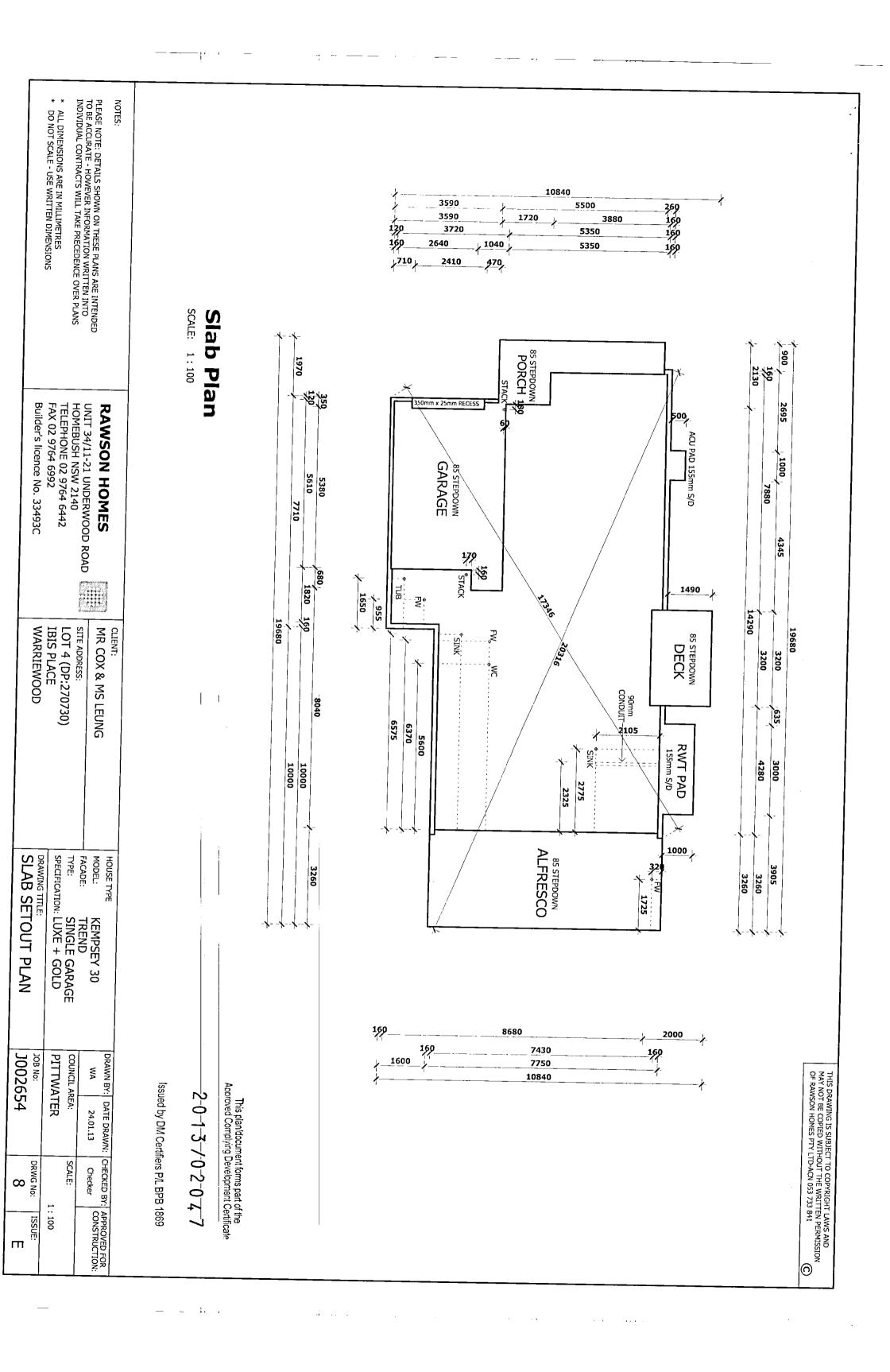




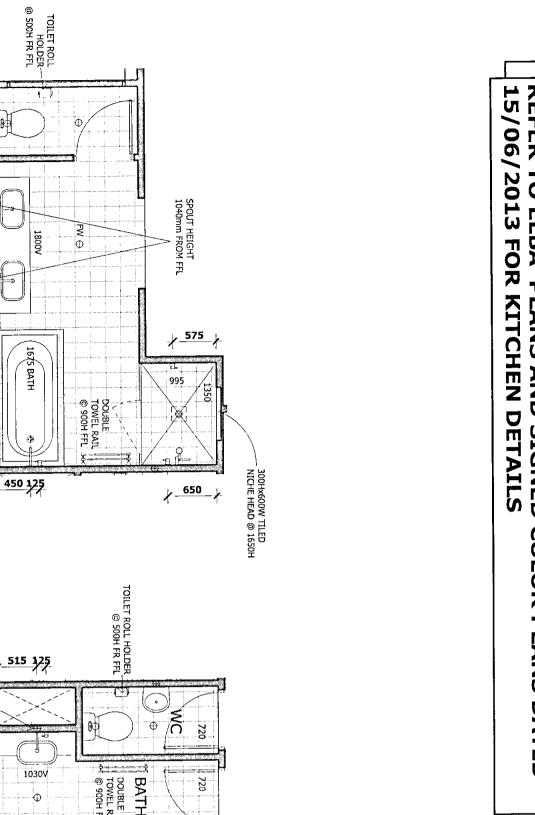


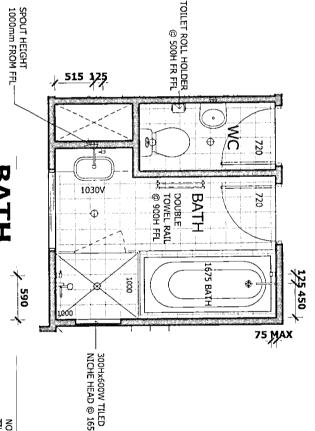






REFER TO ELBA **PLANS AND SIGNED COLOR PLANS DATED**





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820

Ε̈́

LDRY

25 325

SHELVING

1000mm FROM FFL

SPOUT HEIGHT

0

820

720

Φ

-TOWEL RING 900mm FROM FFL

©500H FROM FFL.

BATH 300Hx600W TILED NICHE HEAD @ 1650H NOTE: 300 TILING TO TUB NOTE: WASHING MACHINE TAPS LOCATED UNDER TUB

500 125

835

75 MAX

ENSUITE

LDRY & PWDR RM 7-0-2-0-4-7 This plan/document forms part of the Approved Complying Development Certificate

1. .

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Issued by DM Certifiers P/L BPB 1869

DRAWN BY: DATE DRAWN: CHECKED BY:

LE GARAGE + GOLD AREA DET. PITTWATER COUNCIL AREA: J002654 ΧÃ 24.01.13 SCALE: DRWG No: Checker 9 1:50 APPROVED FOR CONSTRUCTION: ISSUE: П

PLEASE NOTE: DETAILS SHOWN ON THESE PLANS ARE INTENDED TO BE ACCURATE - HOWEVER INFORMATION WRITTEN INTO INDIVIDUAL CONTRACTS WILL TAKE PRECEDENCE OVER PLANS

UNIT 34/11-21 UNDERWOOD ROAD HOMEBUSH NSW 2140 TELEPHONE 02 9764 6442 FAX 02 9764 6992

RAWSON HOMES

MR COX & MS LEUNG

CLIENT:

Builder's licence No. 33493C

WARRIEWOOD

LOT 4 (DP:270730) IBIS PLACE

SPECIFICATION: LUXE

DRAWING TITLE: KIT. & WET

TYPE:

MODEL: FACADE:

KEMPSEY 30 TREND SINGLE GARA

HOUSE TYPE

SITE ADDRESS:

ALL DIMENSIONS ARE IN MILLIMETRES DO NOT SCALE - USE WRITTEN DIMENSIONS

NOTES:

LAUNDRY / WC

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BATHROOM

PROVIDE CEILING HEIGHT TILING TO BATHROOM & ENSUITE

PROVIDE SKIRTING TILE TO PERIMETER WALLS OF LAUNDRY
TILED SPLASHBACK OVER LAUNDRY TUB &
BENCH @ 300mm HIGH

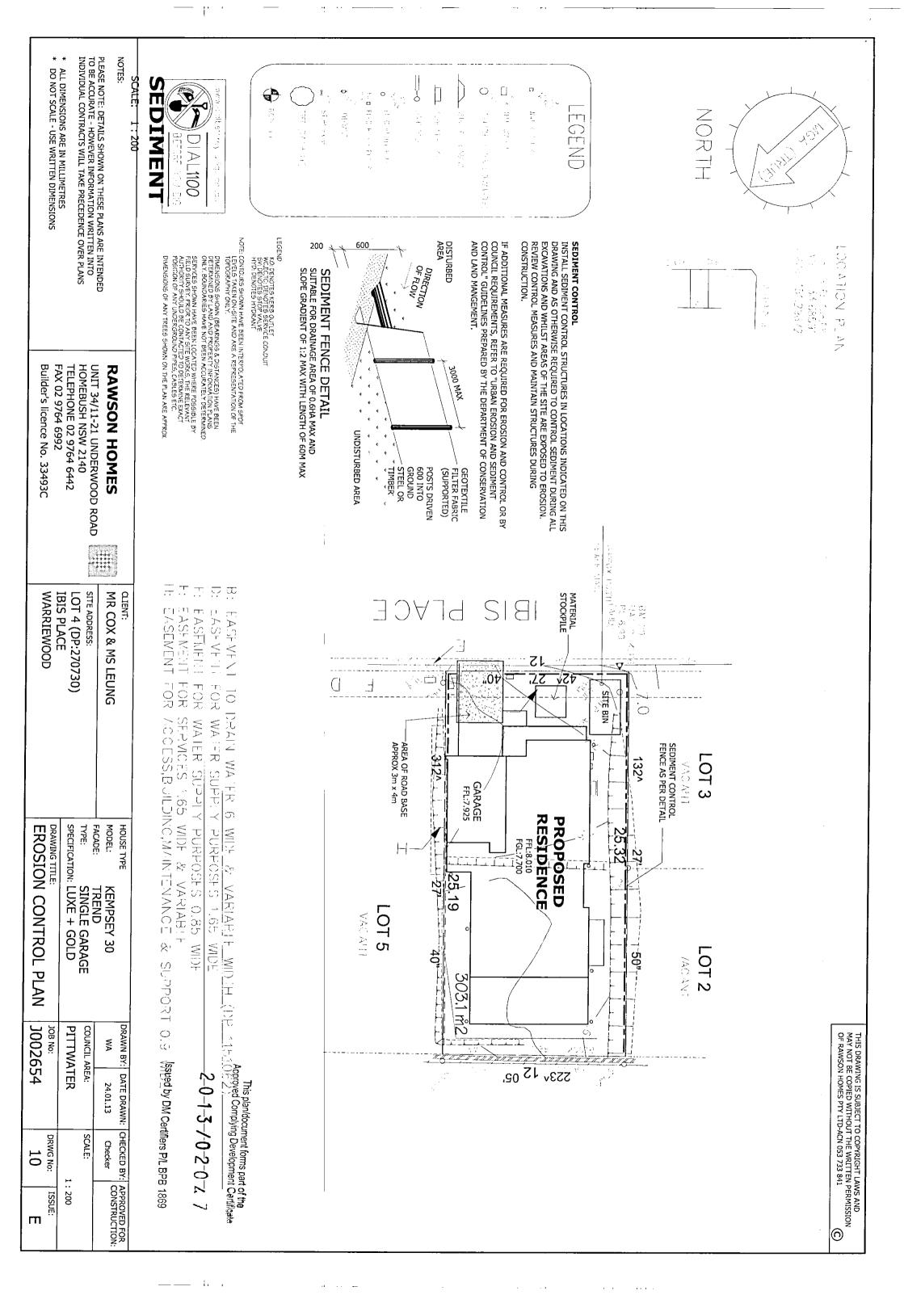
SKITTING TILE TO REMAINDER OF PERIMETER WALL TO WC, POWDER & LAUNDRY

PROVIDE TILE SPLASHBACK ABOVE VANITY
GRANGE SEMI FRAMELESS SHOWER SCREEN WITH PIVOT DOOR @ 2100 HIGH.

TILED SPLASHBACKS TO THE TOP OF VANITIES WITH FLOATING MIRROR ON 32mm BOARD, 130mm FROM SIDE, TOP & MAX. 1800

PROVIDE KICKER TO BATH HOB 140H × 70W
FLOATING VANITIES.

WALL MOUNTED TAPS & SPOUT TO VANITIES & BATH



PLEASE NOTE: DETAILS SHOWN ON THESE PLANS ARE INTENDED TO BE ACCURATE - HOWEVER INFORMATION WRITTEN INTO INDIVIDUAL CONTRACTS WILL TAKE PRECEDENCE OVER PLANS NOTES: ALL DIMENSIONS ARE IN MILLIMETRES DO NOT SCALE - USE WRITTEN DIMENSIONS CAN MODIFIED AND STATEMENT OF THE PROPERTY OF HEC & STECTRICITY PILLAR THE BUILT BUILT FOR SORE HOLE SATIVA GOLS 5" " AEHICIE CHOSSING NORTH LIGHT POL REE (DIA/HEICHI) HADSYNI WANHOLE (SEWER/STORNWATER) WATER WEIER STECHNICHT POLL dialbefore youdig.com.au BEFORE YOU DIG DIAL 1100 NOTE: CONTOURS SHOWN HAVE BEEN INTERPOLATED FROM SPOT LEYELS TAKEN ON-SITE AND ARE A REPRESENTATION OF THE TOPOGRAPHY ONLY. DIECHEND LAT: LOCATION PLAN LONG: 151.296/2 UBD REF: 138,F8 _AT: -- 53.68591 KO: DENOTES KERBOUTLET WCJECTC: DENOTES SERVICE CONDUIT SV: DENOTES STOP VALVE HYD: DENOTES HYDRANT DIMENSIONS SHOWN (BEARINGS & DISTANCES) HAVE BEEN DETERWINED BY LAND AND PROPERTY INFORMATION FLANS ONLY, BOUNDARIES HAVE NOT BEEN ACCIRATELY DETERMINED. ERVICES SHOWN HAVE BEEN LOCATED WHERE POSSIBLE BY BLD SURVEY, PRIOR TO ANY SITE WORKS, THE RELEVANT UNHARITY SHOULD BE CONTACTED TO DETERMINE EVACT OSTION OF ANY UNDERGROUND PIPES, CABLES ETC. MENSIONS OF ANY TREES SHOWN ON THE PLAN ARE APPROX 989 18 FORKEL I CROW Builder's licence No. 33493C HOMEBUSH NSW 2140 TELEPHONE 02 9764 6442 **RAWSON HOMES** FAX 02 9764 6992 UNIT 34/11-21 UNDERWOOD ROAD MR COX & MS LEUNG SITE ADDRESS: LOT 4 (DP:270730) IBIS PLACE WARRIEWOOD $\overline{\mathbb{S}}$ ₿: \forall BM 29 NAIL IN RL 6.90 EASEMENT FOR WATER SUPPLY PURPOSES EASEMENT FOR ACCESS, BUILDING, MAINTENANCE & SUPPORT 0.9 WIDE CASEMENT FOR SERVICES 1.65 WIDE & VARIABLE EASEMENT FOR WATER SUPPLY PURPOSES 0.85 WIDE 12NN ** 1 3124 퐆 MODEL: TYPE: SPECIFICATION: LUXE FACADE: HOUSE TYPE SHADOW DI DRAWING TITLE: 0 TREND
SINGLE GARAGE
UXE + GOLD 27 KEMPSEY 30 .19 /.88 **AGRAM** S 1.65 WIDE 3PM LOT 5 VAC ANT 216 40 0%.0° THIS DRAWING IS SUBJECT TO COPYRIGHT LAWS AND MAY NOT BE COPIED WITHOUT THE WRITTEN PERMISSION OF RAWSON HOMES PTY LTD-ACN 053 733 841 DRAWN BY: DATE DRAWN: CHECKED BY: **PITTWATER** J002654 COUNCIL AREA: Author This plan/document forms part of the Approved Complying Development Certificate 812 2013/02047 96.7 723 A 12 05.9 ZZZZZ EENCE 05/01/13 SCALE: DRWG No: Checker 1:200 APPROVED FOR CONSTRUCTION ISSUE: \square <u></u>

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PLEASE NOTE: DETAILS SHOWN ON THESE PLANS ARE INTENDED TO BE ACCURATE - HOWEVER INFORMATION WRITTEN INTO INDIVIDUAL CONTRACTS WILL TAKE PRECEDENCE OVER PLANS NOTES: ALL DIMENSIONS ARE IN MILLIMETRES DO NOT SCALE - USE WRITTEN DIMENSIONS 0, NOR II EGENE)| AL1100 youdine muss LOCATION PLAN LEGEND

KO: DENOTES KERB OUTLET

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SV: DENOTES STOP VALVE

SV: DENOTES HYDRANT NOTE: CONTOURS SHOWN HAVE BEEN INTERPOLATED FROM SPOT LEVELS TAKEN ON-SITE AND ARE A REPRESENTATION OF THE TOPOGRAPHY ONLY. DIMENSIONS SHOWN (BEARINGS & DISTANCES) HAVE BEEN DETERMINED BY LAND AND PROPERTY INFORMATION PLANS ONLY, BOUNDARIES HAVE NOT BEEN ACCURATELY DETERMINED, SERVICES SHOWN HAVE BEEN LICATED WHERE POSSIBLE BY FIELD SLIVEY, PRIOR TO ANY SITE WORKS, THE RELEVANT AUTHORITY SHOULD BE CONTACTED TO DETERMINE EXACT POSITION OF ANY UNDERGROUND PIPES, CABLES ETC. DIMENSIONS OF ANY TREES SHOWN ON THE PLAN ARE APPROX 25.65531 UNIT 34/11-21 UNDERWOOD ROAD HOMEBUSH NSW 2140 TELEPHONE 02 9764 6442 FAX 02 9764 6992 Builder's licence No. 33493C **RAWSON HOMES** F.70 5 % (447) MR COX & MS LEUNG CLIENT: SITE ADDRESS: SIB WARRIEWOOD LOT 4 (DP:270730) IBIS PLACE \forall EASEMENT FOR EASEMENT FOR EASEVENI [/SEV[N] 45v 72 TO DRAIN WATER 6 WIDE & VARIABLE WID # (DP 151062) FOR WATER SUPPLY PURPOSES 1.65 WIDE 2013/02047 SERVICES 1.65 VIDE & VARIABLE Issued by DM Certifiers P/L BPB 1869 ACCESS, BUILDING, MAINTENANCE & SUPPORT 0.9 VIDE WATER SUPPLY-FURPOSES-0.85_WIDE SERVICES 1.65 WIDE & VARIABLE I 2 OFF-STREET PARKING LOT 3 312^ 132^ VACAHE GARAGE 3:00PM Winter Sun RESIDENCE **PROPOSED** MODEL: KEMPSEY 30
FACADE: TREND
TYPE: SINGLE GARAGE
SPECIFICATION: LUXE + GOLD 25.32 HOUSE TYPE SITE ANAL DRAWING TITLE: FFL:8.010 FGL:7.700 27 25.19 LOT 5 SISA VXX ATI LOT 2 50" TEACAV 40" 303.1 This plan/document forms part of the Approved Complying Development Certificate 13° THIS DRAWING IS SUBJECT TO COPYRIGHT LAWS AND MAY NOT BE COPIED WITHOUT THE WRITTEN PERMISSION OF RAWSON HOMES PTY LTD-ACN 053 733 841 DRAWN BY: DATE DRAWN: **PITTWATER** COUNCIL AREA: J002654 JOB No: 223v 12 05' 05/02/13 CHECKED BY: DRWG No: Checker 12 1:200 APPROVED FOR CONSTRUCTION: ISSUE: **⊚** П

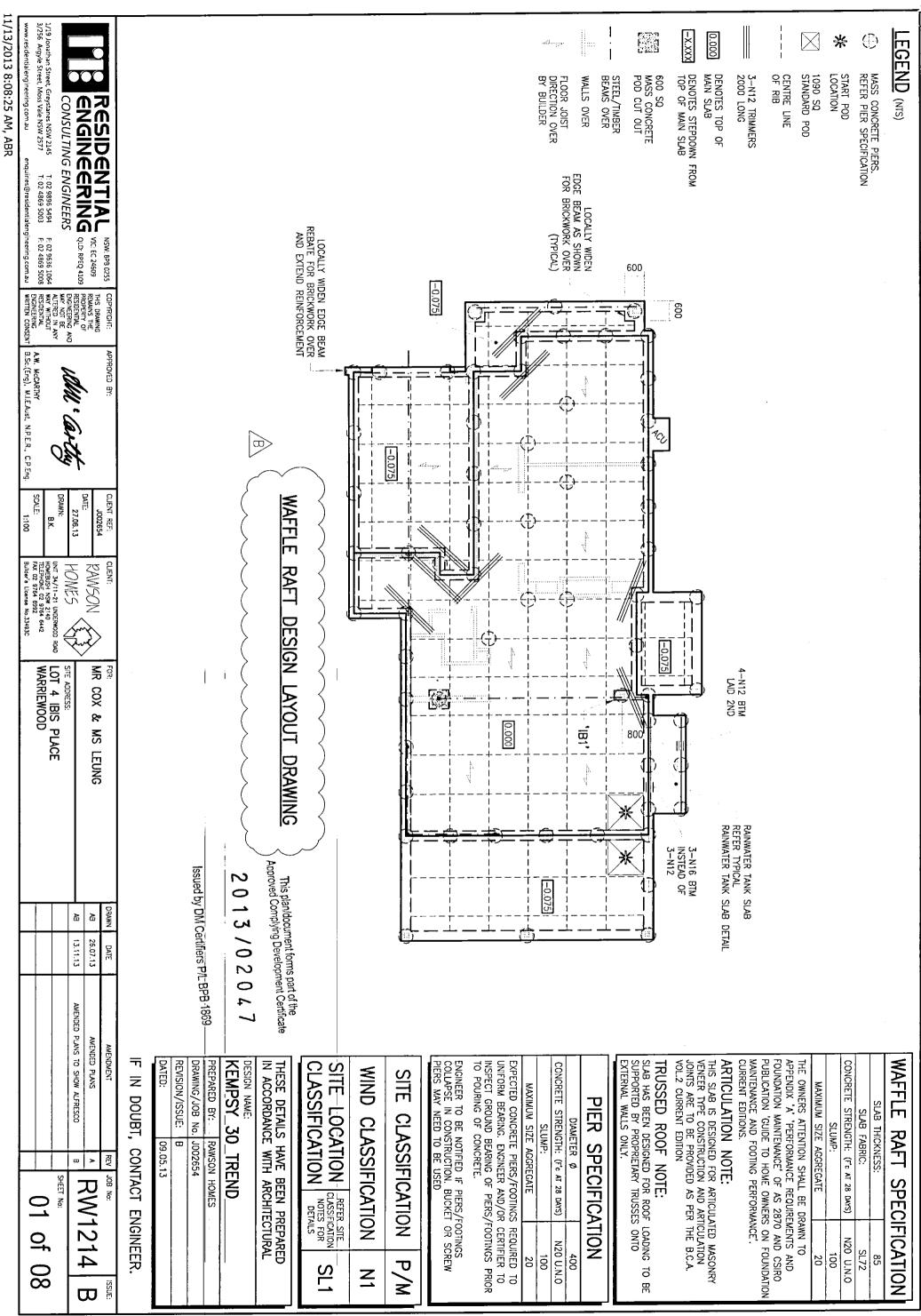
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K.O. DENOTES KERB OUTLET
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HYD: DENOTES HYDRANT INTELLIBRACE SERVICES SHOWN HAVE BEEN LOCATED WHERE POSSIBLE BY HELD SURVEY. FROIR TO ANY SITE WORKS, THE RELEVANT AUTHORITY SHOULD BE CONTACTED TO DETERMINE EXACT POSITION OF ANY UNDERGROUND PIPES, CABLES ETC. CONTOURS SHOWN HAVE BEEN INTERPOLATED FROM SPOT LEVELS TAKEN ON-SITE AND ARE A REPRESENTATION OF THE TOPOGRAPHY ONLY. DIMENSIONS SHOWN (BEARINGS & DISTANCES) HAVE BEEN DETERMINED BY LAND AND PROPERTY INFORMATION PLANS ONLY, BOUNDARIES HAVE NOT BEEN ACCURATELY DETERMINED. DIMENSIONS OF ANY TREES SHOWN ON THE PLAN ARE APPROX 77.367.55. 1948/925-UNIT 34/11-21 UNDERWOOD ROAD HOMEBUSH NSW 2140 TELEPHONE 02 9764 6442 **RAWSON HOMES** Builder's licence No. 33493C FAX 02 9764 6992 MR COX & MS LEUNG CLIENT: WARRIEWOOD LOT 4 (DP:270730) IBIS PLACE SITE ADDRESS: ŦIJü ä ñ SIBI **YCE** This plan/document forms part of the EASEMENT FOR WATER SUPPLY PURPOSES 0.85 WIDTH Appropriate 2-0-1-3-/-0-2-0-4-7-EASEMENT FOR WATER SUPPLY PURPOSES 0.85 WIDE 2-0-1-3-/-0-2-0-4-7-EASEMENT FOR SEPVICES 1.65 WIDE & VARIABLE EASEMENT FOR ACCESS, BUILDING, MAINTENANCE & SUPPRISHED DIM Cartiflets PILBPB 1869 ٦1 .0t .72 0 . LOT 3 132^ TAC AS: GARAGE FFL:7.925 FACADE: SPECIFICATION: LUXE TYPE: MODEL: STORMWATER PLAN DRAWING TITLE: HOUSE TYPE RESIDEN **PROPOSED** STORMWATER LINE OVERFLOW TO STREET 25.32 FFL:8.010 FGL:7.700 27'--TREND SINGLE GARAGE V: LUXE + GOLD KEMPSEY 30 **NCE** 27 40" 10. **LOT 5** VACABI LOT 2 **一)** -303.1m2 50",---/ACART THIS DRAWING IS SUBJECT TO COPYRIGHT LAWS AND MAY NOT BE COPIED WITHOUT THE WRITTEN PERMISSION OF RAWSON HOMES PTY LTD-ACN 053 733 841 DRAWN BY: DATE DRAWN: CHECKED BY: **PITTWATER** J002654 COUNCIL AREA: 24.01.13 223v 12 05' STORMWATER
—CHARGED LINE VIA
RAINWATER TANK SCALE: DRWG No: Checker 1:200 APPROVED FOR CONSTRUCTION ISSUE: Ш 0

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NOTES:

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G1. $\tilde{\Sigma}$ Engineers structural drawings are signed and issued on the understanding that the builder maintains in force, proper and adequate cont works insurance and public liability insurance during the tull course of the construction, and/or any maintenance period. claims of damage to any adjacent property or building adequate contract

63. referred to the architect for decision before proceeding with the work.

33. All workmanship and materials shall be in accordance with the requirements of the current editions of the saa codes and there-by laws and ordinances of the relevant building authority.

34. Dimensions shall not be obtained by scaling the structural drawings, refer to architectural drawings for set out plan measurements, any set out dimensions shown on this document shall be all architectural and other consultants drawings and specifications and with such other written instructions as may be issued during the course of the contract, all discrepancies shall be These drawings shall be read in conjunction with all architectural and other consultants drawing and specifications and

verified by the builder.

94.

Any discrepancies/substitution in these documents shall be referred to the engineer for decision The sections/details on these drawings are intended to give the structural specifications only proceeding with the work.

G6.

are illustrative only. architectural

sections/details on these drawings

D.3.

95.

G7. sse documents are signed subject to certificate inspection being issued by this firm. all piers, b and footing reinforcement shall be inspected the engineer prior to the pouring of concrete. 24hrs notice to the engineer.

SITE CLASSIFICATION

₽. construction procedures and/or techniques. therefore these documents have been prepared The site has been the subject of a geotechnical investigation requiring adherence to the recommendations of the geotechnical particular

Classified by: IDEAL FOUNDATIONS Report/Project no: 5617-RES Site classification: 'P/M' **30 NOVEMBER 2012**

 \aleph The footing details shown are for the site classification stipulated. while every care has taken to verify that the information shown is correct, Residential Engineering takes no responsibility for variations which conditions subsequent to construction. may occur in site Ÿ.

C4. Ω or within heavy industrial SL2: 1km or more but le SL1: less than 1km from breaking surf or less than 100m from salt water not subject to breaking surf areas.

6. CS.

C4. S.2: Ikm or more but less than 10km from breaking surf or 100m or more but less than 1km from salt water not subject to breaking surf c5. S.3: 10km or more from breaking surf or 1km or more from salt water not subject to breaking surf. C6. Refer BCA class 1 and class 10 buildings housing provisions volume 2 for tables:

Protective Coatings For Steelwork (table 3.4.4.2) Corrosion Protection 0f Built—In Structural Steel Members (table 3.3.3.2) Corrosion Protection For Wall Ties (table 3.3.3.1)

FOUNDATION AND FILLING Strip topsoil or other orgo

Ξ.

100 mm and stockpiled.
Filling used for the support of a slab shall be controlled fill or rolled fill as follows: organic matter to a depth 앜

F2. CONTROLLED FILL: Shall be placed, tested and certified by a qualified Geotechnical Engineer as defined in AS 3798. This is deemed to be adequate to support the footing system.

ROLLED FILL: consists of material compacted in layers by repeated rolling with an excavator or a system.

similar equipment. The depth shall not exceed 0.6 m compacted in layers not more than 0.3 m thick for sand material or 0.3 m compacted in layers not more than .15m thick for other material.

Where fill consists of reactive clay, the fill shall be placed in a moist condition. by repeated rolling with an excavator or equipment. The depth shall not exceed 0.6

<u>(b</u>

Any fill shall continue past the edge of the building by at least 1 m and shall be retained or battered beyond this point by a slope not steeper than 1:2. Except for sites with aggressive soils, a blinding layer of sand is not required. Where used, the blinding layer of sand shall comply with rolled fill a moist condition.

F4. F.3.

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DRAINAGE DESIGN REQUIREMENTS

requirements.

₽.

D2.

Surface drainage shall be designed and to avoid water ponding against or near The ground in the immediate vicinity of constructed

D2. The ground in the immediate vicinity of the perimeter footing shall be graded to fall 50 mm min away from the footing over a distance of 1 m.

33. The min height of the slab above F.G.L., landscaping or paving shall be 150 mm. Where adjoining paved areas slope away from the building, this height may reduced to 50 mm.

The base of trenches shall be sloped away from the building and backfilled in accordance with AS 2870 During construction, water run—off shall be collected and channeled away from the building.

D5. D4.

CONCRETE PIERS

P1. P2.

diameter and locations is 600 mm below for 00 mm below footings be socketed a

> 88 . R7. R6.

R9

Ρ3. P4. P5. u.n.o minimum pier depth is 600 mm below f and wherever nominated should be socketed a minimum 300 mm into stiff clay. All pier holes shall be cleaned and dewatered prior to the placement of concrete.

All piers shall be poured separate to footings. It should be noted that if any of the footings encounter rock or shale, then all footings shall be piered to rock or shale. If partially piered to rock rock/non-rock interface. then articulation joints shall be provided at the

Concrete piers/footings are required to uniform bearing, engineer or council shall inspect ground bearing of piers/footings prior to pouring of concrete. ground of

£2.

P6.

DP1 DAMP PROOFING MEMBRANE
A 0.2 mm min polyethylene damp-proofing impact resistant membrane shall be placed beneath the slab so that the bottom surface is entirely underlaid and terminate at ground level.

DP2. The membrane shall be branded continuously 'AS 2870 concrete underlay, 0.2 mm high impact resistant', together with manufacturer or distrubutors name, trademark or code.

DP3. Lapping shall be 200 mm at joints and taped or sealed at plumbing penetrations with continuous close fitting sleeve or made continuous with the vapour barrier by taping and be made

PLUMBING

만. Additionaly drains attached to or emerging from underneath the building including stormwater, sanitary and discharge pipes shall incorporate flexible joints immediately outside the footing and commencing within 1 m of the building perimeter to accommodate a total range of differential movement Close cell polyethylene lagging shall be used around all stormwater and sanitary plumbing drain pipe penetrations through footings. The lagging shall be a minimum of 20 mm thick on H1 sites and 40 mm of the site (ys) penetrations through footings. The lagging st minimum of 20 mm thick on H1 sites and thick on Class H2 and Class E sites. Vertical penetrations do not require lagging. <u></u>

<u>e</u>

REINFORCEMENT AND FIXING

S4. S3.

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concrete cover as follows: ground

40 mm to unprotected ground
30 mm to a membrane in contact with the ground
40 mm to an external surface
20 mm to an internal surface
22 Siab fabric shall be supplied in flat sheets and be lapped one full square plus 25 mm at splices and placed on bar chairs at 1 m cts both ways.
33 Reinforcing bars shall have a lap length at splices splices

22.

R3.

not less than:
500 mm up to a bar ø of 12 mm
700 mm up to a bar ø of 16 mm
At T and L intersections the bars shall be continued across the full width of the intersection.
4. Service penetrations are permitted through the middle third of the depth of the edge beam and stiffening

IJ

R4.

74.

<u>R</u>5.

Reinforcement and void formers shall be fixed in position prior to concreting by means of proprietary spacers, bar chairs with bases, ligatures or other appropriate fixings to achieve the required reinforcement position and concrete cover.

Bar reinforcement shall be tied beneath the slab and

M2.

fabric if used or otherwise placed on bar chairs 7. Concrete shall be transported, placed, compacted and cured in accordance with good building practice. 8. Trenches, pier holes and beams shall be dewatered and cleaned prior to concrete placement such that no significant softened or loosened material remains. 8. Concrete in trenches and beams shall be

М3.

EXCAVATIONS

mechanically vibrated.

Ξ. Temporary excavations in the area of the footing shall be carried out only where adequate support the footing system is maintained such as piering beneath the expected excavation level or ਠ੍ਹੇ

Excavations shall not extend below a line drawn at 30° for sand, 45° for clay to the horizontal from t bottom edge of the footing/pier without prior be adequately deeper than 0.6m in vertical structure within excavations of any vertical or near ucture within 2 m of the building as in 0.6m in material other than rock tely retained or battered. and the

25

<u>E</u>3.

AGGRESSIVE SOILS

Α.

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Buildings with masonry or concrete exposed soils or to acid sulfate soils shall be protect the aggressive soil or groundwater.

Where a layer of bedding sand 100 mm dee protected saline from

Where a layer of bedding sand 10 provided, it shall comply_with the FILLING' notes. **FOUNDATION** Æ

Protection requirements from Geotechnical & local authorities shall be adhered to and provided to this office before commencing detailing.

2

<u>S1</u>. S2. SHRINKAGE CRACKING CONTROL At re-entrant corners, one strip bar 2 m long shall be placed of potential cracking. of 3-L11 or 3-N12 across the direction

Reinforcement to lap full beam width at L and T intersections

intersections Reinforcement to lap full beam width at

BEAM WIDTH

Where brittle floor coverings are to be used over an area greater than 16 m² the following applies:
Slab reinforcement in part of the slab which brittle finishes are applied shall not be less than SL92 or equivalent.

The bedding system for brittle co-selected on the basis of the expe basis of the expected erings shall be slab movement

₤

The placement of floor coverings shall be delay a minimum period of 3 months.

Water shall not be added to the concrete on says to increase the slump above that specified. concrete on site so shall be delayed by

MIDTH BEAM

Where applicable bend outer most top steel and continue around corner 500 min each leg

Ę

REINFORCEMENT LAPPING AND 'T' INTERSECTIONS (

G DETAIL AT (PLAN VIEW)

Curing the concrete shall start immediately after finishing by continually wetting for 7 days min. Plastic or wax liquid sprays may be used in accordance with the manufacturers specifications. retardation (the use of aliphatic alcohols) is recommended during hot weather pours to hermal related slab cracking. accordance with the manufacturers specifications. extra precaution such as the method of evaporative pours to help avoid

SUB-TERRANEAN TERMITE PROTECTION AND MAINTENANCE

piers as Rolled filling

illing as to AS 2870. required to uniform bearing throughout

MIN 00

proposed dwelling

All works to be in accordance wit h AS 3660.1

then screw

Should piers collapse in construction en screw piers may need to be used

FILLING SPECIFICATION DETAIL

12. Any future cracking occurring in the slab/footing system is to be assessed by a qualified pest expert and where directed be sealed by epoxy injection.

13. Inspections of the residence and immediate surrounds to be carried out by a qualified pest expert on an annual basis by the home owner.

14. Site maintenance is the responsibility of the owner. All recommendations outlined in the CSIRO phamphlet, Building Technology File 18, Foundation Maintenance and Footing performance: A Homeowners Guide, and its recommendations should be followed in full.

MASONRY NOTES

Flexible joint immediately outside footing to accommodate o total range of differential movement of the site (ys)

Masonry, Mortar durability and Articulation shall comply with the B.C.A class 1 and 10 buildings volume 2, form TN61 articulated walling and AS 2870 Internal brickwork built off the slab shall be laid on ₩o _oad bearing layers of 'alcor' masonry shall comply with AS 3700 or '3 ply malthoid' or equivalent

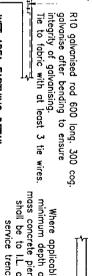
UNDER SLAB PLUMBING DETAIL FOR FOR H1, H2 AND E SITES

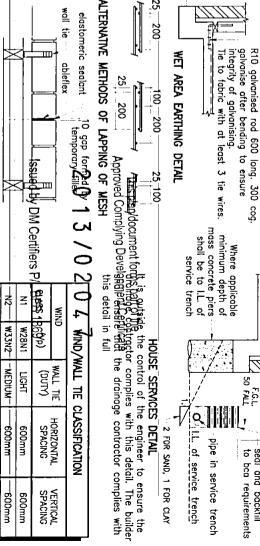
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service trench
seal and backfill
to bca requirements

R10 galvanised rod 600 long. 300 coggalvanise after bending to ensure integrity of galvanising.

Tie to fabric with at least 3 tie wires. 0 long. 300 cog. to ensure





300 MAX

300

MAX.

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W41N3

MEDIUM

600mm 600mm

430mm COURSES 600mm

i.

VERTICAL SPACING

ARTICULATION JOINT AND WALL TII All wall ties to be built in and fixed to as construction proceeds spaced at ea joints and at each third course. the sites shall be as described in the b.c.a buildings housing provisions volume 2. L TIE DETAIL
ad to frame progressively
at each side of expansion
he spacing of all other
b.c.a class 1 and 10

NOTE:
wall tie spacings around openings 300cts
polymer wall ties rated "light duty only" (
yp = permissable stress method)

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			AB	8	DRAWN	
			13.11.13	26.07.13	DATE	
			AMENDED PLANS TO SHOW ALFRESCO	AMENDED PLANS	AMENDMENT	
			в	>	REV	
200	05 of 08	SHEET No:		RW1214	REV JOB No:	
C	X		Ţ	ĮĮ.	ISSUE:	

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1/19 Jonathan Street, Greystanes NSW 2145 3/256 Argyle Street, Moss Vale NSW 2577

CONSULTING T: 02 9896 5494 T: 02 4869 5003 **ENGINEERS**

RESIDENTIAL ENGINEERING

VIC: EC 24609 QLD: RPEQ 4109

NSW: BPB 0255

COPYRIGHT:

APPROVED BY:

NT REF: J002654

CLIENT:

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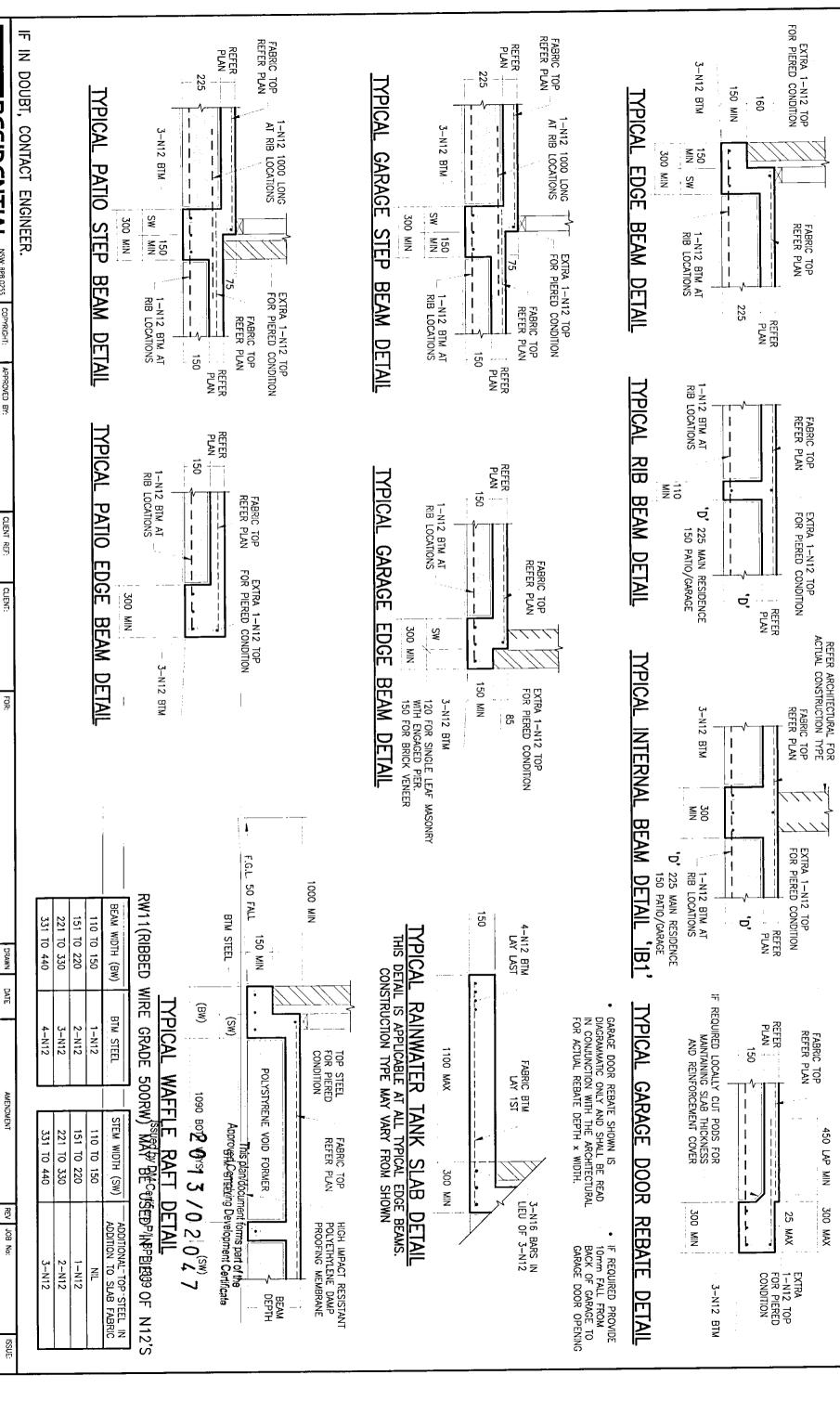
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DATE: 27.06.13 SCALE: 8.K. UNIT 34/11-21 UNDERWOOD R HOMEBUSH NSW 2140 TELEPHONE 02 9764 6442 FAX 02 9764 6992 Builder's License No.33493C NES NOK RAWSON 8

LOT 4 IBIS PLACE WARRIEWOOD

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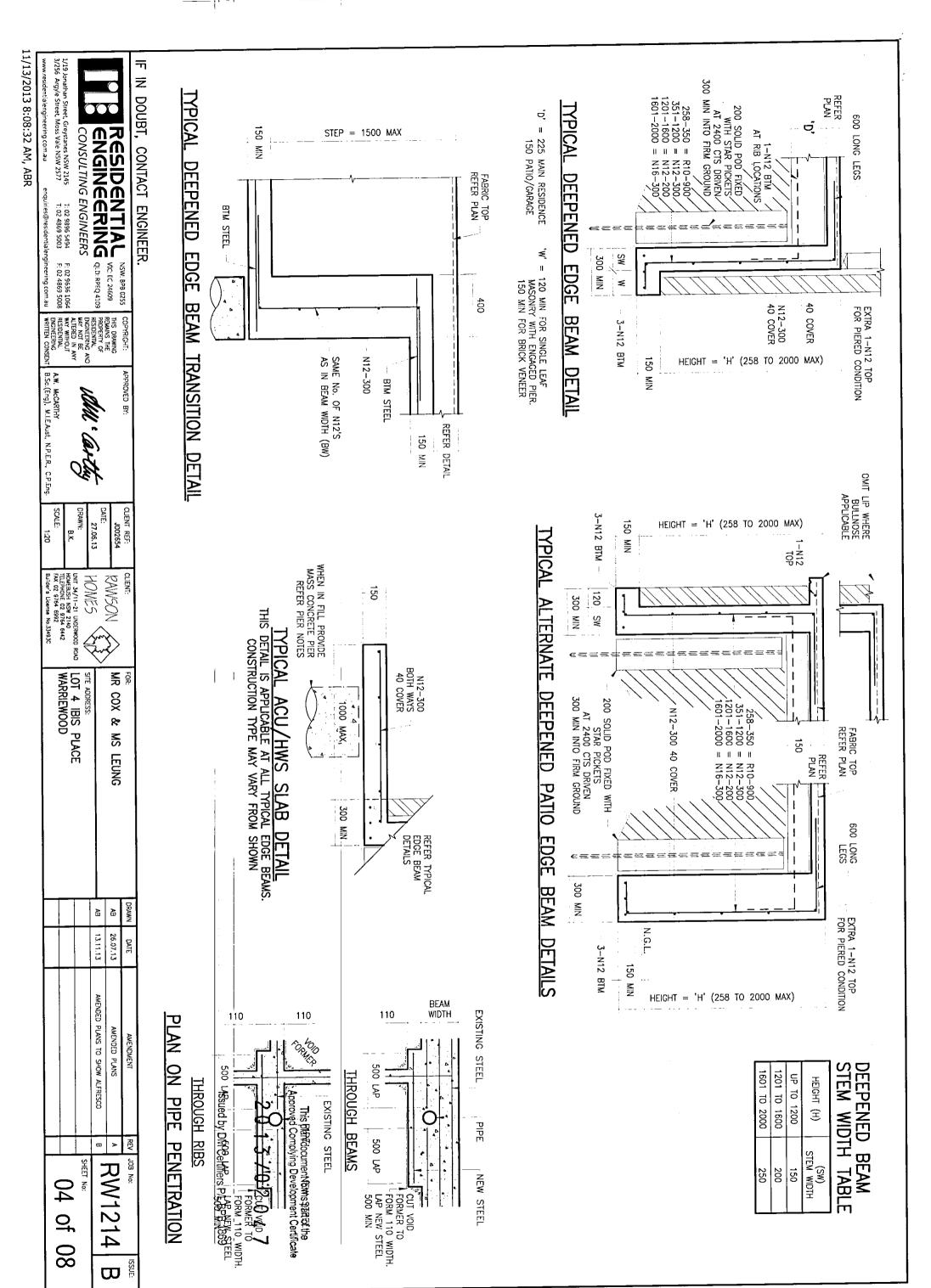
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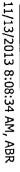
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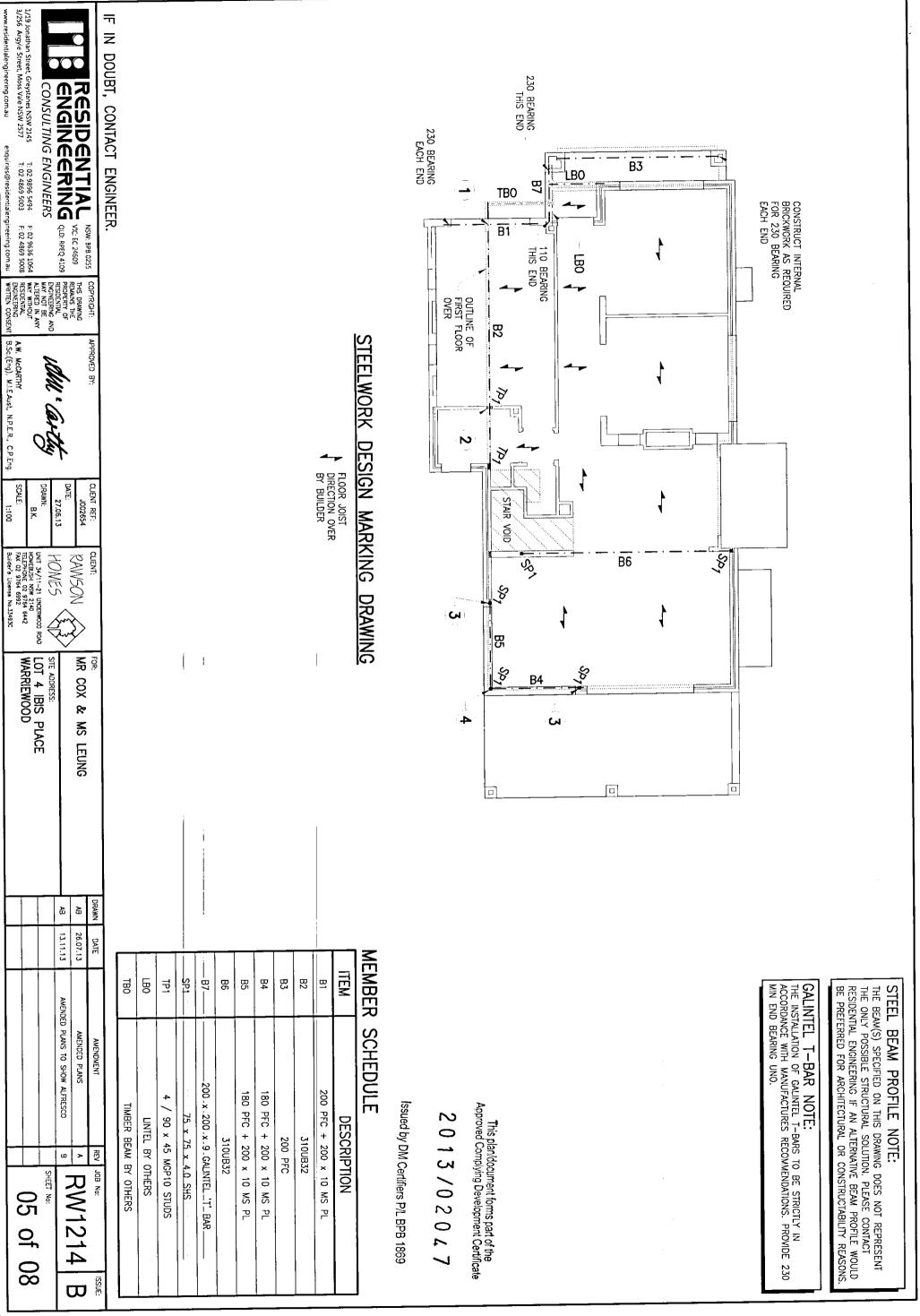
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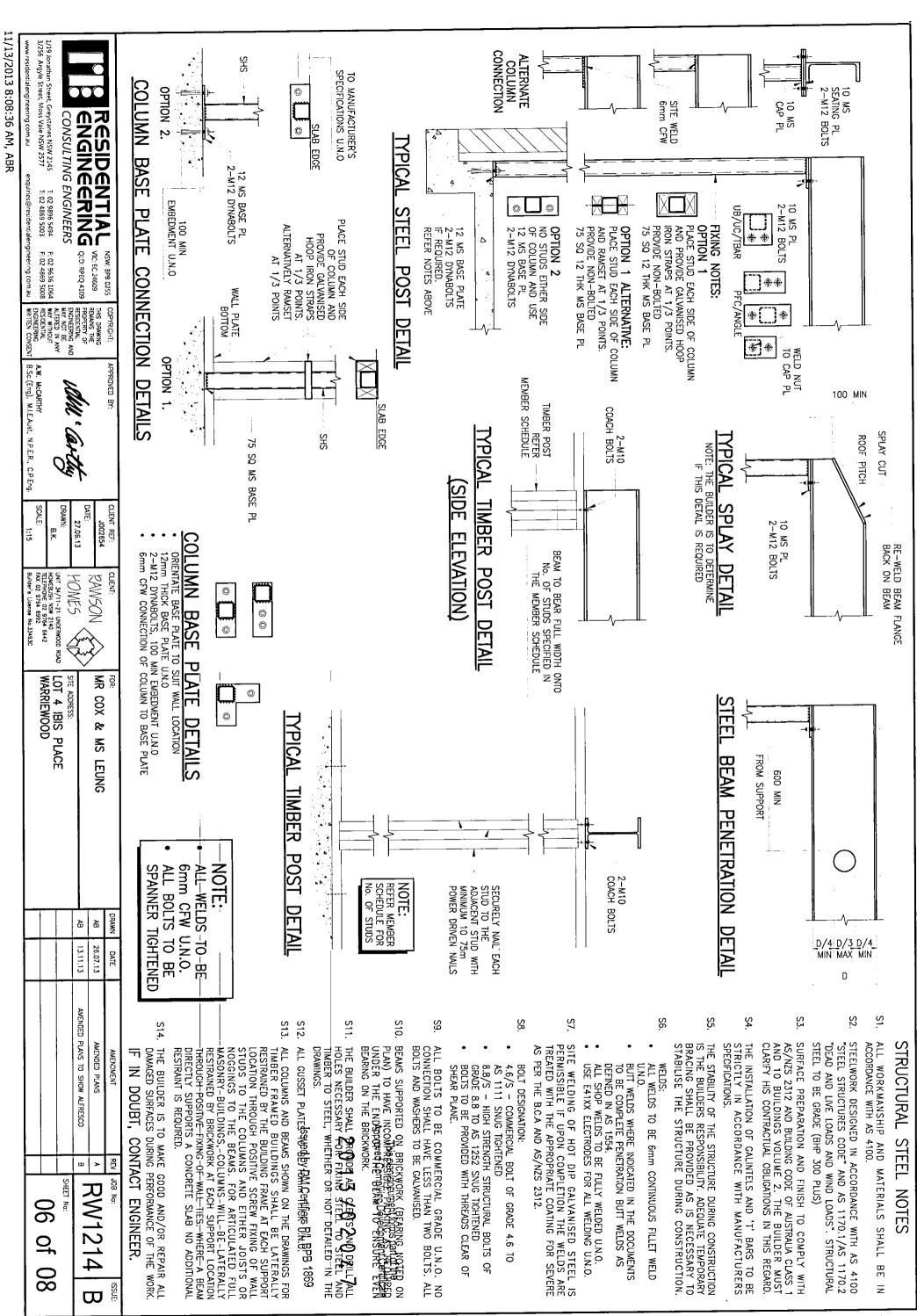


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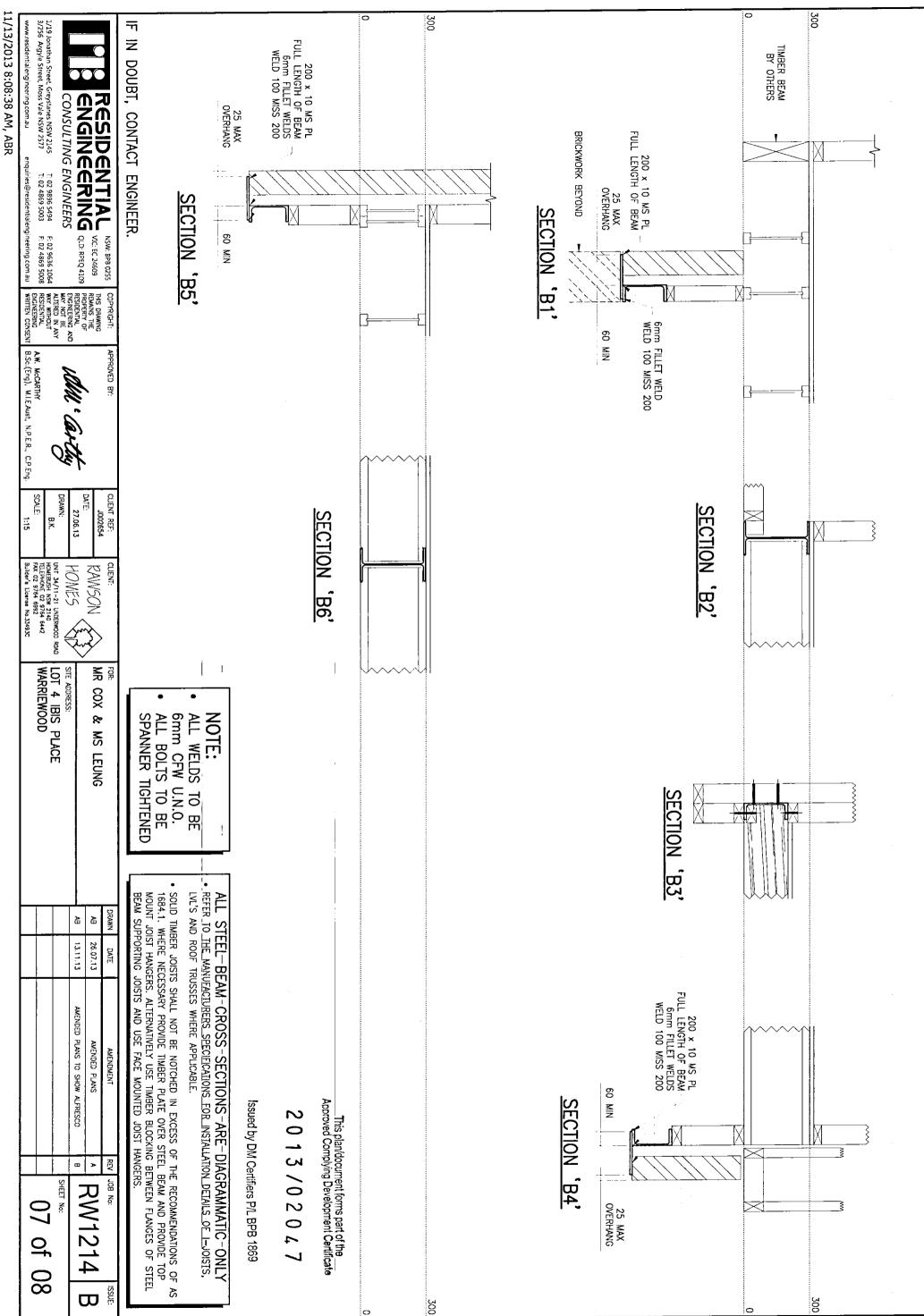
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11/13/2013 8:08:39 AM, ABR 1/19 Jonathan Street, Greystanes NSW 2145 3/256 Argyle Street, Moss Vale NSW 2577 www.residentialengineering.com.au ALL STEEL BEAM CROSS SECTIONS ARE DIAGRAMMATIC ONLY

• REFER TO THE MANUFACTURERS SPECIFICATIONS FOR INSTALLATION DETAILS OF I-JOISTS,
LNL'S AND ROOF TRUSSES WHERE APPLICABLE. • SOLID TIMBER JOISTS SHALL NOT BE NOTCHED IN EXCESS OF THE RECOMMENDATIONS OF AS 1684.1. WHERE NECESSARY PROVIDE TIMBER PLATE OVER STEEL BEAM AND PROVIDE TOP MOUNT JOIST HANGERS. ALTERNATIVELY USE TIMBER BLOCKING BETWEEN FLANGES OF STEEL BEAM SUPPORTING JOISTS AND USE FACE MOUNTED JOIST HANGERS. RESIDENTIAL NSW: 898 0255
ENGINEERING VIC. EC 24609
ENGINEERING QLD: RPEQ 4109 CONSULTING ENGINEERS T: 02 9896 5494 T: 02 4869 5003 F: 02 9636 1064 F: 02 4869 5008 75 x 75 x 4.0 SHS
STUB COLUMN
200 x 10 MS PL
FULL LENGTH OF BEAM
6mm FILLET WELD
WELD 100 MISS 200 12 MS PL
2-M12 BOLTS
OR SITE WELD
COLUMN DIRECTLY
TO PFC + PL THIS DRAWING
READERTY OF
PROPERTY OF
PROPE 700 MAX DETAIL '1' A.W. McCARTHY B.Sc.(Eng), M.I.E.Aust, N.P.E.R., C.P.Eng. 230 MIN DETAIL 10 MS STIFFENER PL LOCATED CENTRAL UNDER STUB COLUMN AND 100 FROM EACH END 10 MS PL 2-M12 BOLTS 200 x 10 MS PL 230 MIN BEARING ON BRICKWORK B4/B5 EDGE OF OPENING DRAWN: B.K. DATE: 27.06.13 CLIENT REF: J002654 6mm CFW U.N.O. ALL BOLTS TO BE В2 NOTE: ALL WELDS TO BE SPANNER TIGHTENED UNIT 34/11-21 UNDERWOOD ROAD HOMEBUSH NSW 2140 TELEPHONE 02 9764 6442 FAX 02 9764 6992 Builder's License No.33493C HOMES CLIENT: RAWSON LOT 4 IBIS PLACE WARRIEWOOD **S** ? SITE ADDRESS: 00X & SN LEUNG 200 x 10 MS PL FULL LENGTH OF BEAM 200 x 10 MS PL FUIL LENGTH OF BEAM 6 FILLET WELD WELD 100 MISS 200 44 10 MS PL
2-M12 BOLTS
OR
SITE WELD DIRECTLY
TO COLUMN В5 В2 땅 SECTION 4A-4A DETAIL DETAIL BUTT WELD <u>;</u>4 DRAWN æ æ REFER POST 26.07.13 13.11.13 DATE В4 10 MS PL 2-M16 BOLTS S TYPICAL B4 BEHIND 4<u>4</u> SHS AND CAP PL
UNDER NOT SHOWN
FOR CLARITY. REFER
TYPICAL STEEL POST
DETAIL FOR SPECIFICATIONS 2-10 MS PL'S -- 2-M16-BOLTS --AMENDED PLANS TO SHOW ALFRESCO AMENDED PLANS AMENDMENT ╗

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SHOP WELD

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IN DOUBT, CONTACT ENGINEER.

RW1214

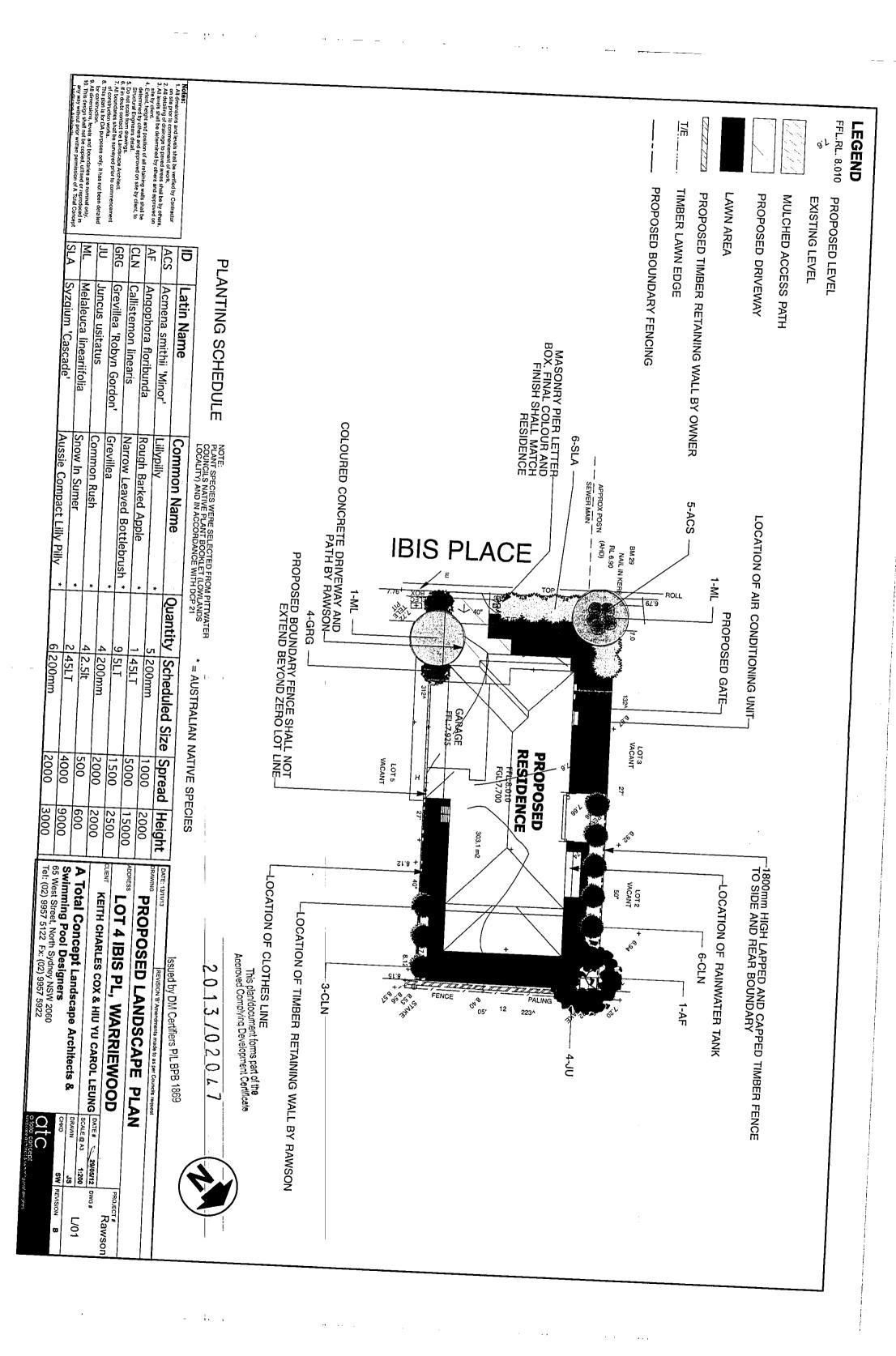
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Issued by DM Certifiers P/L BPB 1869

This plan/document forms part of the Approved Complying Development Certificate

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3/02047



GENERAL NOTES

- ÿ ALL HYDRAULIC WORKS TO STANDARD SPECIFICATIONS AND BE IN ACCORDANCE WITH PITTWATER CITY COUNCIL'S TO THE SUPERVISING ENGINEER'S SATISFACTION.
- ယ THESE PLANS ARE TO BE FROM RAWSON HOMES JOB (PHONE: (02) 9764 6442). READ IN CONJUNCTION WITH ARCHITECTURAL No. J002654 ISSUE D DATED 16 JULY 2013 PLANS
- ALL STORMWATER PIPES UNDER DRIVEWAY TO BE TO BE 100 DIA. SEWER GRADE. UPVC UNLESS NOTED OTHERWISE. PIPES
- 4. DEPTH AND LOCATION OF SEWER & SERVICES TO BE COMMENCEMENT OF DRAINAGE WORKS. CONFIRMED PRIOR TO
- 9 Ċ THE CONTRACTOR SHALL IMPLEMENT EROSION AND SEDIMENTATION CONTROL MEASURES AS NECESSARY AND TO THE SATISFACTION OF COUNCIL PRIOR TO COMMENCEMENT OF CONSTRUCTION AND DURING CONSTRUCTION.
- ENSURE FINISHED GROUND LEVELS ARE SLOPING AWAY FROM THE DEVELOPMENT & INTO PITS OR YARD SUMPS, AS SHOWN ON THE ATTACHED DRAINAGE PLAN.

.~ HYDRAULIC PLANS ARE SUBJECT TO COUNCIL APPROVAL

> REVISION 450 SQUARE GRATED PIT (MEDIUM DUTY) AS REQUIRED 100/150 OUTLET DIA Ŋ TYPICAL PIT DETAIL DETAIL SCALE 1:20 450 Ş٥ \bigcirc N ENSURE NO WATER PONDAGE AT THE BASE OF THE PIT 1 100/150 DIA OUTLET

BASIX REQUIREMENT: 3,500 LITRES CAPACITY RAINWATER TANK FOR AT LEAST 76m2 OF ROC AREA. PROVIDED 3,500 LITRES RWT FOR TOTAL ROOF AREA CAPACITY ROOF

TOTAL

TOTAL IMPERVIOUS AREA = 168.30 m2 APPROX. (55.5%)

(INCLUDING ROOF, GARAGE, DRIVEWAY AND PAVED AREAS).

ARCHITECTURAL PLANS ALTERED.

ACCORDINGLY (REVISION A HYDRAULIC PLANS CHANGED REFLECTS THESE CHANGES) TOTAL CALCULATIO SITE AREA = 303.10 m2ROOF AREA INTO RWT = 151.00 m2NS:

IMPORTANT NOTES

GALV.

25x75x5.0 HOT DIP. ALV. RHS TO

ON SHEET No.

SCREEN WITH GALVANISHED GUIDE CHANNELS MAXI-MESH RH 3030 (REFER TO DETAIL E

Ç

450 SQ. CONCRETE SILT ARRESTOR PIT (HINGED & LOCKED)

100 DIA SEWER GRADE INLET FROM BOX DRAIN

INV. 6.90 (APPROX.)

STREET GUTTER AT

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(APPROX.

INV. 6.90 (APPROX.)

DIA SEWER GRADE

REPLACEABLE GEOTEXTILE FILTER FABRIC

ARRESTOR

PIT

SCALE 1:20

ETAIL

GEOTEXTILE FILTER FABRIC SURROUNDING 14mm AGGREGATES

ω

4x100mm DIA. SEEPAGE HOLES FILLED WITH AGGREGATES

BTM PIT RL 6.60

300

200

200

TWO 1/2 KEEPERS

BRICK

100 DIA SEWER GRADE FROM PIT © INV. 6.90 (APPR

(APPROX.)

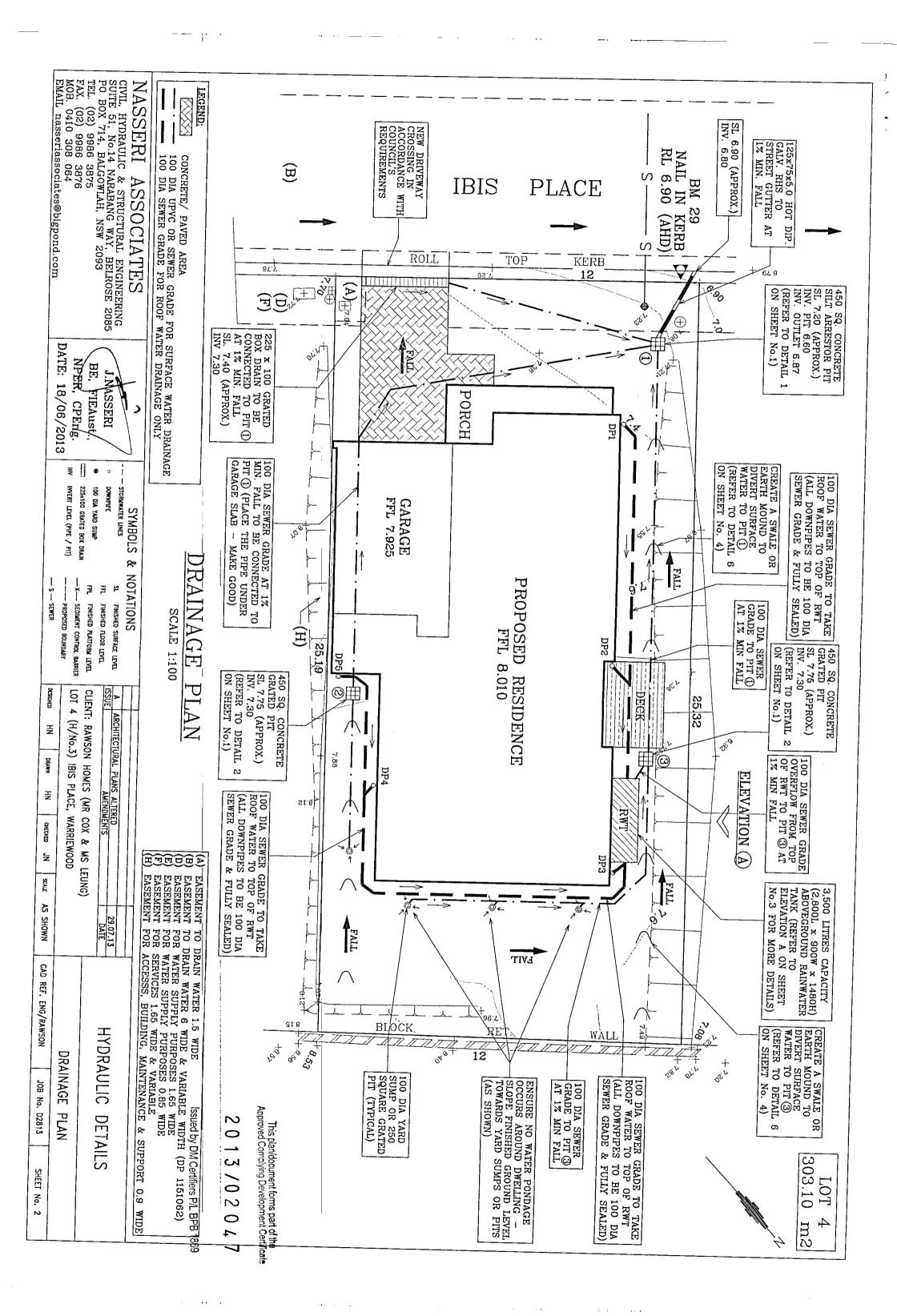
- 1. THIS DEVELOPMENT IS TO CONSTRUCT A NEW RESIDENTIAL DWELLING IN A NEW SUBDIVISION. ON-SITE DETENTION SYSTEM HAS BEEN PROVIDED FOR THE WHOLE SUBDIVISION AND IS THEREFORE NOT REQUIRED FOR INDIVIDUAL PROPERTY.
- AN ABOVE GROUND RAINWATER TANK WITH CAPACITY OF 3,500 LITRES HAS BEEN PLACED ON NORTHERN SIDE OF THE DWELLING TO COLLECT ALL ROOF WATER ONLY FOR RE-USE OF WATER SUCH AS TOILET FLUSHING, LAUNDRY &-IRRIGATION-SYSTEMS 100 DIA SEWER GRADE-OVERFLOW-PIPE FROM TOP OF RWT IS TO BE CONNECTED TO PIT (PIT (PIT (I))). THE RHS OUTLET FROM PIT (1) IS CONNECTED TO STREET GUTTER AT 1% MIN. FALL (REFER TO DRAINAGE
- SHEET No.2). SURFACE WATER AROUND THE DWELLING INCLUDING DRIVEWAY AND SOME PROBLECTION OF RWT TO BE DRAINED TO THE SILT ARRESTOR PIT (PIT Aproped For Paris Development Certificate DISCHARGING INTO STREET_GUTTER_AT_1 SURFACE WATER AROUND THE DWELLING $\begin{array}{c} \text{%-MIN--FALL-(REFER-TO-DRAINAGE-PLANON-7} \\ -0.1-3-/-0.2-0.4-7 \end{array}$
- 4. LEVELS ARE CRITICAL. PRIOR TO ANY CHANGES CONTACT ENGINEER.

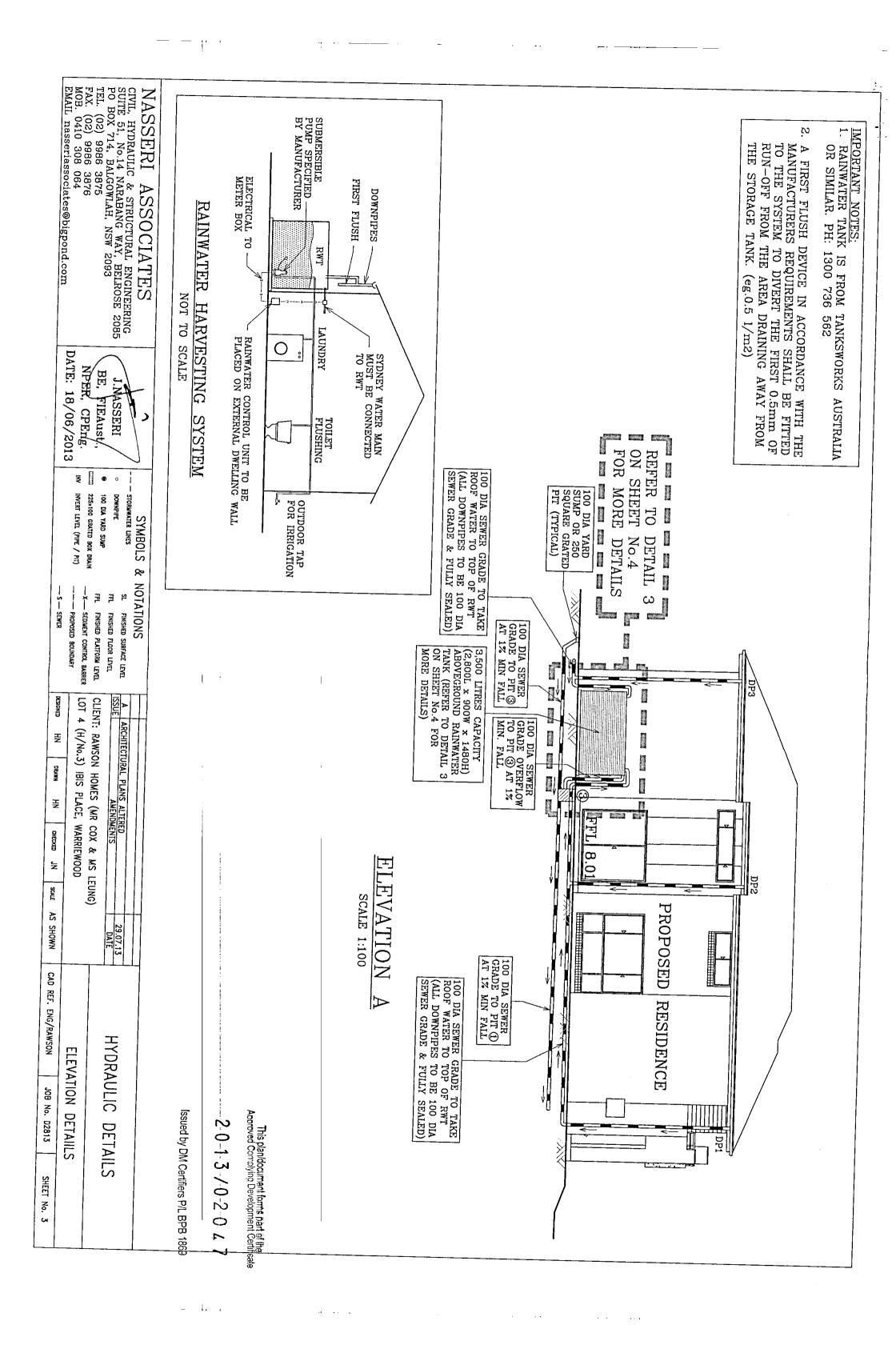
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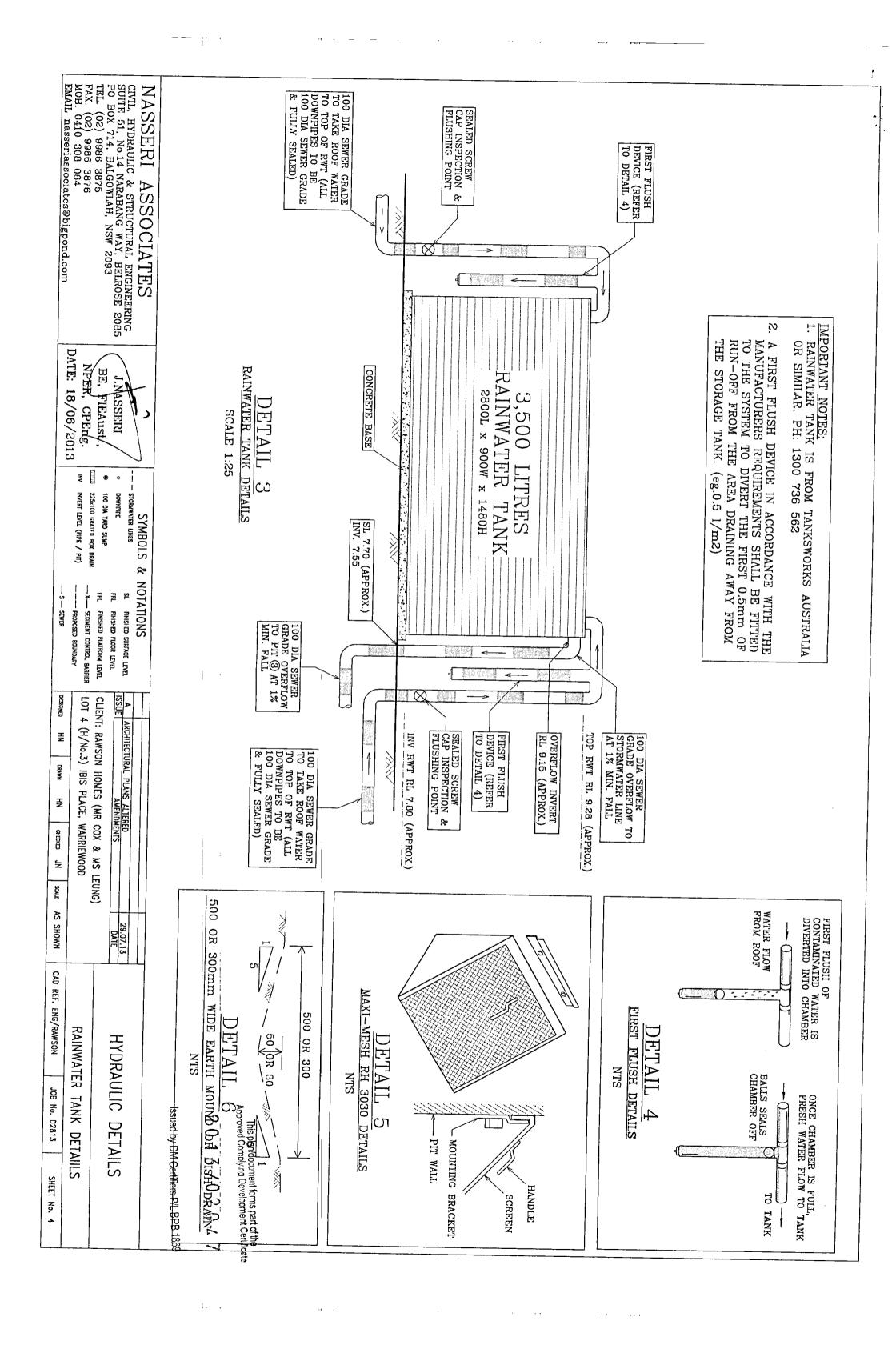
ò PRIOR TO BACKFILLING STORMWATER PIPI ES, CONTACT ENGINEER FOR AN INSPECTION. Issued by DM Certifiers P/L BPB 1869

CIVIL, HYDRAULIC & STRUCTURAL ENGINEERING SUITE 51, No.14 NARABANG WAY, BELROSE 2085 PO BOX 714, BALGOWLAH, NSW 2093 TEL. (02) 9986 3875 FAX. (02) 9986 3876 MOB. 0410 308 064 NASSERI nasseriassociates@bigpond.com ASSOCIATES DATE: NPER, BE. J.NASSERI 18/06/2013 FIEAust/ CPEng. ₹ INVERT LEVEL (PIPE / PIT) 225×100 GRATED BOX DRAIN 100 DIA YARD SUMP SYMBOLS ጵ NOTATIONS -X-- SEDIMENT CONTROL BARRIER FPL 골 - PROPOSED BOUNDARY FINISHED PLATFORM LEVEL FINISHED FLOOR LEVEL FINISHED SURFACE LEVEL

LOT 4 (H/No.3) IBIS PLACE, WARRIEWOOD CLIENT: RAWSON HOMES (MR COX & MS LEUNG) 풀 ź SCALE AS SHOWN REF. ENG/RAWSON NOTES, CALCULATIONS & PITS **HYDRAULIC** JOB No. D2813 DETAILS DETAIILS SHEET No. 1







Building Sustainability Index www.basix.nsw.gov.au

Single Dwelling

Certificate number: 487416S_04

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

Director-General Date of issue: Tu To be val

Project summary	13.1444.04	,
8	3 Ibis Place WARRIEWOOD 2102	2
Local Government Area Pit	Pithwater Council	e e e e e e e e e e e e e e e e e e e
Plan type and plan number de	deposited 270730	***************************************
Lot no. 4709	09	
Section no	mant mantenen i meterant seneral elektron eran men men i elektron eran beste ejen ejen ejen ejen en men en en m	***************************************
Project type sej	separate dwelling house	
No. of bedrooms 4	1994-1994-1994-1994-1994-1994-1994-1994	***************************************
Project score		
Water	, 43 Target 40	et 40
Thermal Comfort	Pass Targo	Target Pass
1	√ 43 Target 40	

This plan/document forms part of the Approved Complying Development Certificate

2013/02047

Issued by DM Certifiers P/L BPB 1869

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Name / Company Name: Energy Ratings Australia Pty Ltd

ABN (if applicable): 31133256676

Department of Planning

www.basix.nsw.gov.au

Version: 6.26 / CASUARINA_2_19_4

Certificate No.: 487416S_04

Tuesday, 29 October 2013

page 1/7

BASIX

Project address		
Project name	13-14411_04	Ass
Street address	3 Ibis Place WARRIEWOOD 2102	Cer
Local Government Area	Pittwater Council	Ω _{in}
Plan type and plan number	Deposited Plan 270730	Area
Lot no.	4709	Are
Section no.	-	의
Project type		non
Project type	separate dwelling house	+
No. of bedrooms	4	×2
Site details		2
Site area (m²)	303	The
Roof area (m²)	151	Ene
Conditioned floor area (m2)	185	
Unconditioned floor area (m2)	17	
Total area of garden and lawn (m2)	114	

Energy	Therr	Water	E O	none	Olitar	Area	Area	Clima	Certif	Asse	2	
у	Thermal Comfort		Project(Seore)		ej	Area adjusted heating load (MJ/m².year)	Area adjusted cooling load (MJ/m².year)	Climate zone	Certificate number	Assessor number	Assessor détails and thermal loads	
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Target 40	Target Pass	Target 40							30.00			

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

		consumption in areas with potable water supply.)
*	, «	• at least one outdoor tap in the development (Note: NSW Health does not recommend that rainwater be used for human
		the cold water tap that supplies each clothes washer in the development
•	`	all toilets in the development
		The applicant must connect the rainwater tank to:
`	•	The applicant must configure the rainwater tank to collect rain runoff from at least 76 square metres of the roof area of the development (excluding the area of the roof which drains to any stormwater tank or private dam).
A CONTRACT OF THE CONTRACT OF		The applicant must install a rainwater tank of at least 3500 litres on the site. This rainwater tank must meet, and be installed in accordance with, the requirements of all applicable regulatory authorities.
		Rainwater tank
		Alternative water
1	•	The applicant must install basin taps with a minimum rating of 3 star in each bathroom in the development.
	•	The applicant must install taps with a minimum rating of 3 star in the kitchen in the development.
	*	The applicant must install a toilet flushing system with a minimum rating of 4 star in each toilet in the development.
\	*	The applicant must install showerheads with a minimum rating of 3 star (> 7.5 but <= 9 L/min) in all showers in the development.
		Fixtures
Certifier check	;Show on CC/CDC plans & specs	Water Commitments Show on DA plans

Department of Planning

Tuesday, 29 October 2013

1

page 7/7



External Colour Selections

Lot 4 Ibis Place, Warriewood Mr Keith Cox and Ms Hiu Leung



Main Brick: PGH Bricks Brick Name – Pearl Grey



Roofing Monier Madison Profile Tile Name – Soho Night



Rendered Brickwork to Front Façade Duluux - Mud Pack



Matrix Cladding
Dulux - Domino



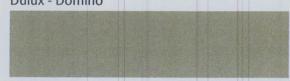
Rendered RHS Pier Dulux - Domino



Gutter : Colorbond – Woodland Grey



Primeline Weatherboard Cladding Dulux - Domino



Easylap Cladding
Duluux - Mud Pack



Colorbond – Painted Mud Pack



Garage Door: Timbergrain - Caoba

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2013/02017

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Fascia:

Colorbond – Woodland Grey



Driveway:

ColourThru: Graphite

Window Frames and Flyscreens Colorbond – Surfmist External Handrail to front Balcony: Colorbond – Surfmist

HIA GENERAL HOUSING SPECIFICATIONS - NSW (INCORPORATING THE HIA GUIDE TO MATERIALS & WORKMANSHIP) REVISED SEPTEMBER 2012

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HIA GENERAL HOUSING SPECIFICATIONS - NSW (INCORPORATING THE HIA GUIDE TO MATERIALS & WORKMANSHIP) REVISED SEPTEMBER 2012

1. INTRODUCTION

1.1 General

This Specification forms part of the *Contract* documents referred to in the building *Contract* and details the works to be executed and the materials to be used in carrying out those works at the site.

This Specification is to be read as a general specification only. The extent of the works shall be governed by the approved plans and other requirements under the *Contract*.

Any works not fully detailed shall, where appropriate, be sufficiently performed if carried out in accordance with the *National Construction Code (NCC) Series*, the relevant manufacturer's instructions or *Engineer's Instructions*.

1.2 Preliminary Use

This Specification forms part of the *Contract* and should be read in conjunction with the other contract documents.

1.3 | Prevailing Documents

Where there is a difference between the plans and this Specification, this Specification shall take precedence. The *Builder* must at all times maintain a legible copy of the plans and this Specification bearing the approval of the relevant *Local Authority*.

Otherwise to the extent of any conflict between documents, the order of precedence set out in the building contract shall apply.

1.4 Size and Dimensions

Unless otherwise stated, all dimensions given in this specification are in millimetres and are nominal only.

1.5 Prime Cost and Provisional Sum Items

Prime Cost and Provisional Sums Items are items that the Owner is to select after the contract has been entered into. The prices listed are the Builder's reasonable estimate of the "cost price" of those items including GST. The prices listed do not include unquantifiable components including the "Builder's margin", cost of cartage and freight.

1.6 Definitions

In this Specification the following definitions shall apply:

"NCC" Series includes NCC Series Volume 2, "Building Code of Australia Class 1 and Class 10 Buildings also known as the 'Housing Provisions', NCC Series Volume 3 Plumbing Code of Australia is also included.

Initials	 1	·	

- "Engineer's Instruction" includes any soil classification report, preliminary footings report, construction footings report and any other report, recommendation, site or other instruction, calculations or plans prepared by an engineer in respect of the works.
- Where the term "Local Authority" is mentioned it shall mean the local council, or other governing authority or private certifier with statutory responsibility for the compliance of the work performed.
- Where referred to in this Specification, "Regulations" shall mean the building Regulations
 and Codes (including the NCC, as amended) statutorily enforceable at the time
 application is made for a construction certificate or other permits, consents or approvals
 relating to the Contract.
- The "HIA Guide" means the HIA Guide to Materials & Workmanship for Residential Building Work.

Unless the context suggests otherwise, terms used in this Specification shall have the same meaning as in the HIA Building Contract between the *Owner* and the *Builder* ("Contract").

2. STATUTORY REQUIREMENTS

2.1 The Building Works

The building works outlined in the Schedule of Works, annexed to this Specification, shall be constructed in accordance with:

- the *Regulations* and in particular the Performance Requirements referred to in the *NCC*, Housing Provisions, Volume 2;
- any conditions imposed by the relevant development consent or complying development certificate; and
- commitments outlined in the BASIX Certificate

2.2 Compliance with Requirements of Authorities

The *Builder* is to comply with the requirements of all legally constituted authorities having jurisdiction over the building works and the provisions of the *Home Building Act*.

2.3 Electricity

Where there is no existing building, the *Builder* is to make arrangements for any electrical power to be used in the construction of the building works. The cost of providing and installing any poles, wiring, service risers or underground wiring etc, as may be required by the electricity supply authority, shall be borne by the *Owner*.

2.4 Sanitary Accommodation

Prior to the commencement of the building works, unless toilet facilities exist on the site, the *Builder* shall provide temporary toilet accommodation for the use of site personnel. Where the *Local Authority* requires the temporary toilet to be connected to sewer mains, the cost of this work shall be borne by the *Owner*. On completion the *Builder* shall remove the convenience.

Page 2	Initials/

3. OWNER'S OBLIGATIONS

3.1 Engineer's Instructions

If the *Contract* indicates, the *Owner*, at their expense, shall provide the *Builder* with engineer's reports and specifications (including wind and soil classifications) for the foundation or footing requirements.

In these circumstances, if the *Builder* instructs any party to provide such reports, the *Builder* does so only as agent for the *Owner*.

3.2 Water Supply

Where there is no existing building on the site, the *Owner*, at their expense, shall supply adequate water to the site for construction purposes. The contract documents must include all details for management of water providing clarity for the *Owner* and *Builder* regarding items such as rainwater tanks, septic systems and the like.

3.3 Sanitation

Unless otherwise specified the *Owner* shall supply sewerage connection and pay the standard sewer connection fee to the sewerage supply authority.

4. PLANS, PERMITS AND APPLICATION FEES

4.1 Permits and Fees

Subject to a contrary requirement under the *Contract*, the *Builder* shall lodge all necessary application notices, plans and details with the *Local Authority* for approval prior to commencement of construction.

4.2 Mines Subsidence

In areas affected by mine subsidence, the appropriate authority is to be consulted and any work carried out in accordance with the authority's requirements.

4.3 Setting Out

The Builder shall accurately set out the building works in accordance with the site plan and within the boundaries of the site.

5. EXCAVATIONS

5.1 Excavations

The part of the site to be covered by the proposed building or buildings and an area at least 1000mm wide around that part of the site or to the boundaries of the site, whichever is the lesser, shall be cleared or graded as indicated on the site works plan.

Top soil shall be cut to a depth sufficient to remove all vegetation.

Excavations for all footings shall be in accordance with the *Engineer's Instructions* or the *NCC* requirements.

Initials	 / .	

6. FOUNDATIONS AND FOOTINGS

6.1 Underfloor Fill

Underfloor fill shall be in accordance with the NCC.

6.2 Termite Risk Management

Termite treatment shall be carried out in accordance with the NCC.

6.3 Vapour Barrier

The vapour barrier installed under slab-on-ground construction shall be installed in accordance with the *NCC*.

6.4 Reinforcement

Reinforcement shall conform and be placed in accordance with the *Engineer's Instructions* and the *NCC*.

Support to all reinforcement shall be used to correctly position and avoid any undue displacement of reinforcement during the concrete placement.

6.5 Concrete

Except where otherwise approved by an engineer, structural concrete shall be in accordance with the *NCC*. Pre-mixed concrete shall be manufactured in accordance with the *NCC* with delivery dockets kept on site or available for inspection by the engineer, or the *Local Authority*.

Concrete shall be placed and compacted in accordance with good building practice and the NCC.

6.6 Curing

All concrete slabs shall be cured in accordance with the NCC.

6.7 Footings and Slabs on Ground

Concrete slabs and footings shall not be placed until approval to do so is given by the engineer or the *Local Authority*.

Unless otherwise specified bench and floor levels indicated on the site plan shall be regarded as nominal.

6.8 Suspended Slabs

All concrete slabs, other than those supported on solid ground or properly compacted fill, shall be constructed as suspended slabs. These slabs shall be constructed in accordance with the *Engineer's Instructions*.

6.9 Foundation Walls

Where specified, masonry foundation walls are to be built on specified footings to the thickness indicated on the plans and to the height of the underside of the floor bearer or bottom wall plate.

6.10 Sub-Floor Ventilation

All sub floor spaces to suspended ground floors shall be provided with adequate ventilation in accordance with the NCC.

6.11 Sub-Floor Access

Where required, access to suspended sub floor areas shall be located as indicated on the plan.

7. RETAINING WALLS

7.1 Retaining Walls

Where the *Builder* is required by the Schedule of Works annexed to this Specification, the *Builder* shall construct retaining walls as shown on the approved plans. Where a retaining wall is not included in the Schedule of Works, the construction of any retaining wall shall be the responsibility of the *Owner*.

8. | EFFLUENT DISPOSAL/DRAINAGE

8.1 Effluent Disposal/Drainage

In both sewered and unsewered areas:

- (a) Any bath, wash basin, kitchen waste, wash tubs, pedestal pan and the floor grate to a shower recess shall be located in the position shown on the plan (refer to Schedule of Works); and
- (b) waste pipes with traps shall be provided to the above fittings and connected to the drainage system.

The whole of the work is to be performed in accordance with the NCC and requirements of the sewerage authority concerned.

8.2 Septic System

The Builder will provide and install a septic system where applicable to the requirements of the Local Authority and in accordance with the manufacturer's instructions.

8.3 Storm Water Drainage

Stormwater drainage shall be carried out in accordance with the NCC.

The Builder will allow for the supplying and laying of stormwater drains as shown on the site plan.

9. TIMBER FRAMING

9.1 Generally

All timber framing shall comply with the NCC, alternative structural framing shall be to structural engineer's details and certification.

Initials	 . /	• • • • • •

Timber Engineered products may be used provided their design comply with the *NCC* and they are installed in accordance with the manufacturer's instructions.

The work shall be carried out in a proper and tradesperson like manner and shall be in accordance with recognised and accepted building practices.

9.1.1 Floor Framing

All floor framing is to be framed at the level shown on the plan.

9.1.2 Wall Framing

Wall framing is to be erected plumb and straight and securely fastened to the floor framing or floor slab.

The interface between masonry and wall framing will conform with the NCC.

9.1.3 Heads Over Opening (Lintels)

- All solid timber lintels shall conform to the NCC.
- Glue laminated beams conforming to AS 1328 or laminated veneer lumber beams to manufacturer's specification and data sheets may also be used.

9.1.4 Roof Trusses

Where roof truss construction is used, trusses shall be designed in accordance with AS 1720 and be erected, fixed and braced in accordance with the manufacturer's instructions.

9.1.5 Bracing

Bracing units shall be determined and installed in accordance with the *NCC* as appropriate for the design wind velocity for the site. Bracing shall be evenly distributed throughout the building.

9.1.6 Flooring

Strip and sheet timber floors shall be installed in accordance with the NCC.

The selection, installation and waterproofing of wet area floors shall conform to the *NCC* when listed in Schedule of Works. Where specified in the contract floors shall be sanded to provide an even surface and shall be left clean throughout.

9.1.7 Roof Framing

Roofs shall be pitched to the slope shown on plan.

The work shall be carried out in a proper and tradesperson like manner and shall be in accordance with recognised and accepted building practices.

Metal fascias shall be installed in accordance with the manufacturer's instructions and shall meet the requirements of the NCC.

9.1.8 Timber Posts

Unless otherwise specified and where required by the NCC posts supporting carports, verandas and porches shall be timber suitable for external use.

	
Page 6	Initials/

9.2 Corrosion Protection

All metal brackets, facing plates and other associated fixings used in structural timber joints and bracing must have corrosion protection appropriate to the site in accordance with the NCC.

9.3 Hot Water Storage Units

Where a hot water storage unit or solar panels are supported by the roof structure the structure shall be specifically designed to support all imposed loads.

10. STEEL FRAMING

10.1 Generally

Steel framing shall be installed in accordance with the manufacturer's recommendations and the

ROOFING CLADDINGS 11.

All roof cladding is to comply with the relevant structural performance and weathering requirements of the NCC and be installed as per the manufacturer's specifications.

11.1 Tiled Roofing

The Builder shall cover the roof of the dwelling with approved tiles as selected. The roof shall be fixed and waterproofed in accordance with the NCC. Roofing adjacent to valleys should be fixed so as to eliminate water penetration. Where roof tiles are made of natural products slight variation in colour is acceptable.

11.2 Metal Roofing

The Builder shall provide and install a metal roof together with accessories as determined in the contract documents in accordance with the NCC and the manufacturer's recommendations.

Except where design prohibits, sheets shall be in single lengths from fascia to ridge. Fixing of sheets shall be in accordance with the manufacturer's instructions as required for the appropriate design and wind speed.

11.3 Gutters and Downpipes

Gutters and downpipes as determined in the contract documents shall be manufactured and installed in accordance with the NCC.

11.4 Corrosion protection

Materials used for flashings, fasteners, gutters and downpipes shall be compatible.

11.5 Sarking

Sarking under roof coverings must comply with and be fixed in accordance with the NCC.

Page

11.6 Sealants

Appropriate sealants shall be used where ne specifications.

ecessary and	in accordance	with	manufacturer's	
7			/	

11.7 Flashing

Flashings shall comply with, and be installed in accordance with the NCC.

12. MASONRY

12.1 Bricks

All masonry construction and units shall comply with the NCC.

Tolerances shall only be applied to the total measurements over 20 units, and not to the individual units. As clay masonry units are natural kiln fired products their individual size may vary due to the manufacturing process.

12.2 Concrete Blocks

Concrete blocks are to be machine pressed, of even shape, well cured and shall comply with the *NCC*. Concrete blockwork shall be constructed in accordance with the *NCC*.

Autoclaved aerated concrete blocks shall be in accordance with the manufacturer's product specification at the time the work is being carried out.

12.3 Damp Proof Courses

All damp proof courses shall comply with the NCC.

The damp proof membrane shall be visible in the external face of the masonry in which it is placed and shall not be bridged by any applied coatings, render or the like.

12.4 Cavity Ventilation (Weepholes)

Where required open vertical joints (weepholes) must be created in the course immediately above any Damp Proof Course or flashing at centres in accordance with the NCC.

12.5 Mortar and Joining

Mortar and joint tolerances shall comply with the NCC.

12.6 Masonry Accessories

Masonry accessories shall comply with the *NCC* and accepted building practices. Articulated joints shall be constructed in accordance with the *NCC*.

12.7 Lintels

Lintels used to support masonry above openings in walls must be suitable for the purpose as required by the *NCC*. Lintels are to be provided to each wall leaf and are to be corrosion protected appropriate for the site environment and location of the lintel within the structure in accordance with the *NCC*.

12.8 Cleaning

All exposed face brickwork shall be cleaned with an approved cleaning system. Care should be taken not to damage brickwork or joints and other fittings.

Page 8	Initials/
	© HIA NSW September 2012

13. CLADDING AND LININGS

13.1 External Claddings

Sheet materials or other external cladding shall be fixed in accordance with the manufacturer's recommendations and any applicable special details.

Where required, the specified materials shall be used to line soffits at eaves, open verandas and porches.

13.2 Internal Wall and Ceilings Linings

Unless otherwise specified, internal linings to walls and ceilings in other than wet areas shall be of gypsum plasterboards.

Plasterboard sheets are to be of a minimum 10 mm thick with recessed edges to facilitate a smooth set finish. Internal angles to walls are to be set from floor to ceiling.

Where specified, suitable cornice moulds shall be fixed at the junction of all walls and ceilings. Alternatively the joint may be set as required for vertical internal angles.

Wet area linings are to be fixed in accordance with the manufacturer's recommendations.

The ceiling access hole shall be of similar material to the adjacent ceiling.

13.3 Waterproofing

All internal wet areas are to be waterproofed in accordance with the *NCC*. External tiled decks and balconies where required are to be waterproofed in accordance with the *NCC* and relevant manufactures specifications.

14. JOINERY

14.1 General

All joinery work (metal and timber) shall be manufactured and installed according to accepted building practices.

14.2 Door Frames

External door frames shall be suitable for the expose conditions and to receive doors. Internal jamb linings shall be suitable to receive doors as specified in the contract documents. Manufactured door frames shall be installed in accordance with the manufacturer's instructions.

14.3 Doors and Doorsets

All internal and external timber door and door sets shall be installed in accordance with accepted building practice and specific manufacturer's instructions.

14.4 Window and Sliding Doors

Sliding and other aluminium windows and doors shall be installed in accordance with manufacturer's recommendations and AS 2047.

All glazing shall comply with the *NCC* and any commitments outlined in the relevant BASIX Certificate.

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14.5 Architraves and Skirting

Architraves and skirting as nominated on the plans or listed in the Schedule of Works shall be installed in accordance with accepted building practice.

14.6 Cupboards/Kitchens/Bathroom

Units shall be installed to manufacturer's recommendations. Bench tops shall be of a water resistant material.

14.7 Stairs, Balustrades and other Barriers

Where required stairs or ramps to any change in levels shall be provided and balustrades or barriers fitted in accordance with the NCC.

15. SERVICES

15.1 Plumbing

All plumbing shall comply with the requirements of the NCC Volume 3 and the relevant supply authority. All work shall be carried out by a licensed plumber.

Fittings, as listed in the Schedule of Works, shall be supplied and installed to manufacturer's specifications.

Fittings, hot water systems and any rainwater harvesting systems shall be appropriate to satisfy any commitment outlined in the relevant BASIX Certificate.

15.2 Electrical

All electrical work is to be carried out by a licensed electrical contractor to AS/NZS 3000 Electrical installations (known as the Australian/New Zealand Wiring Rules) plus any other relevant regulations. The location of lights, switches, power points and the like, is to be nominated in the contract documents.

Unless otherwise specified, the electrical service shall be 240 volt, single phase supply.

15.3 Gas

All installation (including LPG) shall be carried out in accordance with the rules and requirements of the relevant supply authority.

15.4 Smoke Detectors

Smoke alarms shall be installed in accordance with the NCC.

15.5 Thermal Insulation

Where thermal insulation is used in the building fabric or services, such as air conditioning ducting or hot water systems, it shall be installed in accordance with manufacturer's recommendations to achieve the R-Values required by the *NCC* or as outlined in the relevant BASIX Certificate.

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16. TILING

16.1 Materials

Tiles shall be as listed in the Schedule of Works or as selected by the Owner.

Cement mortar and other adhesives shall comply with AS 3958.1 or tile manufacturer's specifications.

16.2 Installation

Installation of tiles shall be in accordance with AS 3958.1 or the manufacturer's recommendations and accepted building practices.

Where practicable, spacing between tiles should be even and regular.

Expansion joints shall be installed in accordance with AS 3958.1 or the tile manufacture's specifications.

All vertical and horizontal joints between walls and fixtures e.g. bench top, bath, etc. and wall/floor junctions shall be filled with flexible mould resistant sealant.

All joints in the body of tiled surfaces shall be neatly filled with appropriate grout material as specified by the tile manufacturer or accepted building practice.

As tiles are made of natural products a slight variation in colour is acceptable.

Tiles are to be fixed to the substrate with adhesives that are compatible with the substrate and any waterproofing material.

16.3 Walls

Wall surfaces shall be tiled with selected tiles and accessories where indicated by the contract documents.

16.4 Floors

Floors shall be tiled to areas where indicated by the contract documents with selected tiles. Tiles shall be laid in a sand and cement mortar or using an adhesive, where required, edge strips or metal angle to exposed edges in doorways or hob-less showers in wet areas shall be provided in accordance with the *NCC*.

Where required, adequate falls shall be provided to wastes in accordance with the NCC.

17. PAINTING

17.1 General

All paint used shall be of a quality suitable for the purpose intended and the application shall be as per the manufacturer's specifications. The colours used shall be as listed in the Schedule of Works or other relevant contract document. All surfaces to be painted shall be properly prepared to manufacturer's instructions.

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18. WORKMANSHIP STANDARDS AND TOLERANCES

18.1 General

These general specifications incorporate the *HIA Guide*. By agreeing to these specifications, the *Owner* agrees that he/she has been provided with a copy and has had the opportunity to read the *HIA Guide*.

The *HIA Guide* is to be used by the *Builder* and *Owner* as a point of reference for information on workmanship standards and tolerances, and amongst other things, in deciding whether an alleged defect exists and/or whether the materials used and/or workmanship is in accordance with the plans and specifications.

The parties agree to use the *HIA Guide* in precedence over any other non-legislated guide to standards and tolerances.

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