



LOCAL

Construction Certificate

CERTIFICATE NUMBER 5002360

Pittwater

yours locally

Sydney North West
21/5 Inglewood Place
Baulkham Hills 2153
PO Box 7321 Baulkham Hills BC NSW 2153

DX 8461 Castle Hill
p 02 9836 5711 f 02 9836 5722

web www.localgroup.com.au

Issued under the Environmental Planning and Assessment Act, 1979

SUBJECT LAND

HNO 28
LOT 22
DP/SP/CP 7236
HEATH STREET
MONA VALE 2103

DEVELOPMENT CONSENT

N0212/08

DATE OF CONSENT

13 JUNE, 2008

DESCRIPTION OF WORK

DWELLING (TWO STOREY)

LIMITATIONS &/OR EXCLUSIONS

BUILDING CLASSIFICATION

1A

COPY

SC

7 AUG 2008

PITTWATER COUNCIL

The application for this Construction Certificate has been determined as **APPROVED** in accordance with the procedures outlined in Clause 142 of the Environmental Planning and Assessment Regulation 2000. In making this determination, I certify that the work if completed in accordance with the 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 referred to in Section 81A(5) of the Environmental Planning and Assessment Act, 1979, as amended.

DOCUMENTATION ACCOMPANYING THE APPLICATION.

PLANS

PLANS PREPARED BY CLARENDON RESIDENTIAL GROUP, DATED 14/3/08, REVISION E DATED 13/5/08, JOB # 29903437, SHEETS 1-8

SPECIFICATIONS

GENERAL HOUSING SPECIFICATION PREPARED BY HIA

OTHER DOCUMENTS

APPLICATION FORM
OWNERS CONSENT
HOW CERTIFICATE
COUNCIL RECEIPTS
SYDNEY WATER APPROVAL
EXTERNAL COLOURS CHART
BASIX CERTIFICATE # 1965795, DATED 13/5/08
ABSA CERTIFICATE # 80670293, DATED 22/4/08
ENGINEER DETAILS PREPARED BY RAFALETOS ZANUTTINI, DATED 12/5/08, JOB # 29563CL, ISSUE A, SHEETS 1-4
SITE REPORT PREPARED BY RAFALETOS ZANUTTINI, DATED 6/2/08
STORMWATER LAYOUT PREPARED BY IBRAHIM STORMWATER CONSULTANTS, ISSUE 1 DATED 9/5/08, JOB # C1420-03437, SHEETS 1-2
CONTOUR PLAN PREPARED BY ASPECT DEVELOPMENT & SURVEY, DATED 20/2/08
LANDSCAPE CONCEPT PLAN PREPARED BY NICK MASON, DATED 31/3/08

R# 242713
5/8/08

FIRE SAFETY SCHEDULE ATTACHED

☐ YES ☒ N/A

Andrew Dean
BPB0087

30 July, 2008

Date of Certificate



LOCAL

- ☒ Principal Certifying Authority
☒ Construction Certificate

RECEIVED
BY LOCAL CERTIFICATION SERVICES P/L
on, 17/6/08.. (date)

- ☒ Complying Development Certificate
☒ Occupation Certificate
☐ Compliance Certificate

- ☒ Debbie Foss
☐ Ray Marshall
☐ Natasha Scerri
☒ Janie Whata

APPLICATION FORM

THE APPLICATION

DATE OF APPLICATION

LAND TO BE DEVELOPED

Lot No. 22 Deposited Plan 7236
House No 28 Street Name Heath Street
Suburb Mona Vale Post Code
Area (m²) 929

26316

THE DEVELOPMENT

Proposed Building Work Residential ☒ Commercial ☐ Industrial ☐
Description of Development
Value of Work \$254,795
Type of work Erection of a Building

CONSENTS

Consent Authority PITTWATER
Development Consent No 212/08 Date of Issue 13/6/08
Builder or Owner/Builder Name CLARENDON
Licence No 22481

THE APPLICANT

Surname Callaghan
First Name Wayne Victor Andrew & Deborah Susan
Street C/-Clarendon Homes, Norwest Quay, Unit 2
Suburb Ground Floor, 21 Solent Cct, Baulkham Hills 2153
Contact No's 8851 5300

THE OWNER/S

	Owner 1	Owner 2
First Name	<u>Wayne Victor Andrew</u>	<u>Deborah Susan</u>
Surname	<u>Callaghan</u>	<u>Callaghan</u>
Street	<u>28 Heath Street</u>	<u></u>
Address	<u>Mona Vale NSW 2103</u>	<u></u>
Contact No	<u>9997 2877</u>	<u></u>

27765

27766

Local South Coast
48b Princes Highway
Fairly Meadow NSW 2519
P - 02 4284 4709
F - 02 4284 4208

Local Norwest
Suite 21 5 Inglewood Place
Baulkham Hills NSW 2153
P - 02 9836 5711
F - 02 9836 5722

Local Central Coast
Suite 2/162 The Entrance Road
Erina NSW 2250
P - 02 4365 6051
F - 02 4365 4846

Local Macarthur
PO Box 3190
Narellan DC NSW 2567
P - 02 4648 5666
F - 02 4648 5755

E - info@localgroup.com.au
Web - http://localgroup.com.au
ABN - 30 735 366 565

LETTER OF CONSENT

OWNERS CONSENT

I/we the owners of the subject property hereby give consent for the lodgement all relevant applications (i.e. for Construction Certificate/s, Complying Development Certificate/s, Occupation Certificate/s, Compliance Certificate/s) and associated documentation to Local Certification Services Unit Trust for consideration

I/we also declare that all documentation presented as part of an application for a Construction Certificate has remained unaltered from that issued with any Development Consent or that any changes have been documented and Local Certification Services Unit Trust have been advised accordingly

In the event that the nominated Principal Certifying Authority resigns from his employment position with Local Certification Services Unit Trust my signature provided below will also serve as the authorisation for the transfer of the role and responsibilities of the Principal Certifying Authority from the nominated person to Mr Andrew Dean

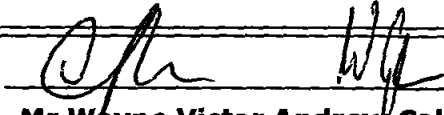
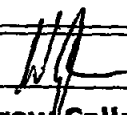
PRINCIPAL CERTIFYING AUTHORITY

With reference to this proposed development I/we the owners of the subject property hereby advise of our decision to appoint ☐ Andrew Dean ☒ Callan Blackwell ☐ Craig Hardy ☐ Paul Morgan ☐ Michael Shanahan ☐ Paul Gearin ☐ Daniel Powell ☒ Sam Pratt ☐ _____ (please select by ticking the box) to fulfil the role of Principal Certifying Authority (PCA) as outlined in the Environmental Planning and Assessment Act, 1979 (as amended)

I/we understand that this engagement shall be subject to the Terms and Conditions outlined in this application and the associated Schedule and I/we further understand that he will carry out all mandatory inspections required by the Act during the course of construction along with any others that he deems to be necessary and referred to the abovementioned Agreement

I/we also advise that I/we are aware of the conditions attached to any Development Consent (i.e. Local Development Consent or Complying Development Consent) and are aware of our responsibilities in relation to those conditions

SIGNATURES

APPLICANT		
Signed		
Name (Please Print)	Mr Wayne Victor Andrew Callaghan & Mrs Deborah Susan Callaghan	Date
OWNER/S		
Signed		
Name (Please Print)	Mr Wayne Victor Andrew Callaghan	Date
Signed		
Name (Please Print)	Mrs Deborah Susan Callaghan	Date
Signed		
Name (Please Print)		Date
Signed		
Name (Please Print)		Date



LOCAL

AUSTRALIAN BUREAU OF STATISTICS

ALL NEW BUILDINGS

(Please complete the following)

How many storeys (incl underground floors) will the proposed building consist of ? ☐ 1 ☒ 2 ☐ 3
What is the gross are of the new building ? _____ 401 68 m²
What is the gross area of the site on which the proposal will be constructed ? _____ 929 m²

RESIDENTIAL BUILDINGS ONLY

(Please complete the following for residential buildings)

How many dwellings will be constructed ? _____ ☐ 0 ☒ 1 ☐ 2
How many pre-existing dwellings are there on the site already ? _____ ☐ 0 ☒ 1 ☐ 2
How many dwellings will be demolished ? _____ ☐ 0 ☒ 1 ☐ 2
If the proposal includes a new dwelling/s is it be attached to another new building ? ☐ Yes ☒ No
If the proposal includes a new dwelling/s is it be attached to another new building ? ☐ Yes ☒ No
Does the site contain a Dual Occupancy ?
(A dual occupancy is defined as two dwellings on the one site) _____ ☐ Yes ☒ No

MATERIALS

Please indicate the materials to be used in the construction of the new building/s

Walls

	Code
Brick (Double) _____	☐ 11
Brick (Veneer) _____	☒ 12
Concrete or Stone _____	☐ 20
Fibre Cement _____	☐ 30
Timber _____	☐ 40
Curtain (Glass) _____	☐ 50
Steel _____	☐ 60
Aluminium _____	☐ 70
Other _____	☐ 80
Not Specified _____	☐ 90

Floor

	Code
Concrete or Slate _____	☒ 20
Timber _____	☐ 40
Other _____	☐ 80
Not Specified _____	☐ 90

Roof

	Code
Tiles _____	☒ 10
Concrete or Slate _____	☐ 20
Fibre Cement _____	☐ 30
Steel _____	☐ 60
Aluminium _____	☐ 70
Other _____	☐ 80
Not Specified _____	☐ 90

Frame

	Code
Timber _____	☒ 40
Steel _____	☐ 60
Aluminium _____	☐ 70
Other _____	☐ 80
Not Specified _____	☐ 90

Local South Coast
48b Princes Highway
Fairy Meadow NSW 2519
P - 02 4284 4709
F - 02 4284 4208

Local Norwest
Suite 21 5 Inglewood Place
Baulkham Hills NSW 2153
P - 02 9836 5711
F - 02 9836 5722

Local Central Coast
Suite 2/162 The Entrance Road
Erina NSW 2250
P - 02 4365 6051
F - 02 4365 4846

Local Macarthur
PO Box 3190
Narellan DC NSW 2567
P - 02 4648 5666
F - 02 4648 5755

E - info@localgroup.com.au
Web - http://localgroup.com.au
ABN - 30 735 366 565



9/1/08.

EXTERNAL COLOUR SELECTION
CLARENDON HOMES

CLIENT: Callaghan JOB NO: 2990.3437

BUILDING ADDRESS: Lot 22 (#28) Heath St. Mona Vale.

BASIX Roof: ☒ Dark ☐ Medium ☐ Light
Walls: ☐ Dark ☒ Medium ☐ Light

Brick Supplier: TBA

Collection: TBA

Brick Name: Commons.

Mortar: off white Finish: Flush.

Moroka Bag/Paint: Main Body of Home / Mountain Shadow P196NS
Wisp's Smoke P196.N2
Render: Barge Board / Paint Woodland Grey. Wisp's Smoke P196.N2
(If Applicable)

Roof: ~~TBA~~ Colour: Woodland Grey Profile: Colourband.

Cladding: N/A Other: N/A

Windows: Pearl White Gable Feature: N/A

Gutter: Woodland Grey Fascia: Woodland Grey

Barge Cap: Woodland Grey (If Applicable)

Barge Board: Woodland Grey (If Applicable)

Downpipes/Meterbox: Woodland Grey Eaves: Illusive White

Garage Door: Woodland Grey Design: TBA

Front Door: Stained Timber

Posts: Illusive White (If Applicable)

Railings: Pearl White Finish: Gloss (If Applicable)

Water Tank: Woodland Grey

Infill Panels: N/A (If Applicable)

SIGNED

DATED



9/1/08.

RECEIVED
10 JUL 2008

BY: Debs

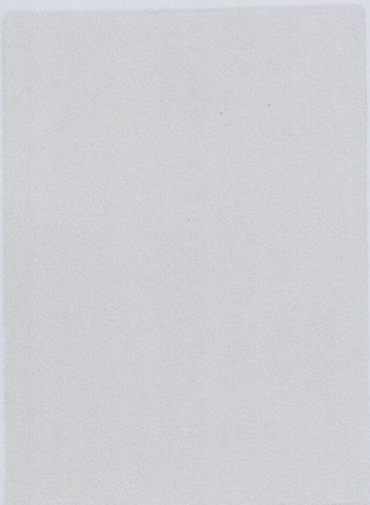
EXTERNAL COLOUR SELECTION
CLARENDON HOMES

CLIENT: Callaghan JOB NO: 2990.3437

BUILDING ADDRESS: Lot 22 (#28) Heath St Mona Vale

BASIX Roof: ☒ Dark ☐ Medium ☐ Light
Walls: ☐ Dark ☐ Medium ☒ Light

Mountain
Shadow P196.N5.
Wisp's Smoke
P196.N2

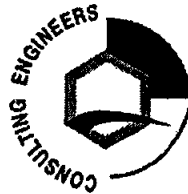


Pearl White (WH)
Gloss



RECEIVED
BY LOCAL CERTIFICATION SERVICES PTY
on 30/7/08 (date)

RAFELETOS



ZANUTTINI
Pty Ltd

ABN 35 079 047 466

Level 2 103 Vanessa St
Kingsgrove NSW 2208

Telephone (02) 9554 9311
Facsimile (02) 9554 9764

DATE ORDERED 6/02/2008
OUR REFERENCE 29563CL
YOUR REFERENCE CALLAGHAN
LOCATION LOT 22 NO 28 HEATH STREET MONA VALE

BOREHOLE 1	
Depth mm	Material description
00	Natural surface level
100	
200	LOAM/SANDY
300	
400	LOAM BROWN FINE SAND
500	
600	RED/BROWN FINE SAND
700	
800	
900	
1000	
1100	RED/WHITE FINE SAND
1200	MOIST

BOREHOLE 2	
Depth mm	Material description
00	Natural surface level
100	
200	
300	
400	
500	
600	AS BOREHOLE 1
700	
800	
900	
1000	
1100	
1200	

Taken Front of existing dwelling

Taken Rear of existing dwelling

Approx pier depth (mm) 1 5M

Wind Region A

Site Classification M

Terram Category TC 3

Engineer

Topographic Classification T1

Shielding Classification F S

Wind Classification N2

John Rafeletos B E MIE Aust

Comments ADOPT 1X1 POD LAYOUT

CLARENDON HOMES

Condition of Footpath / Kerb & Gutter Prior to Commencement of Building Works

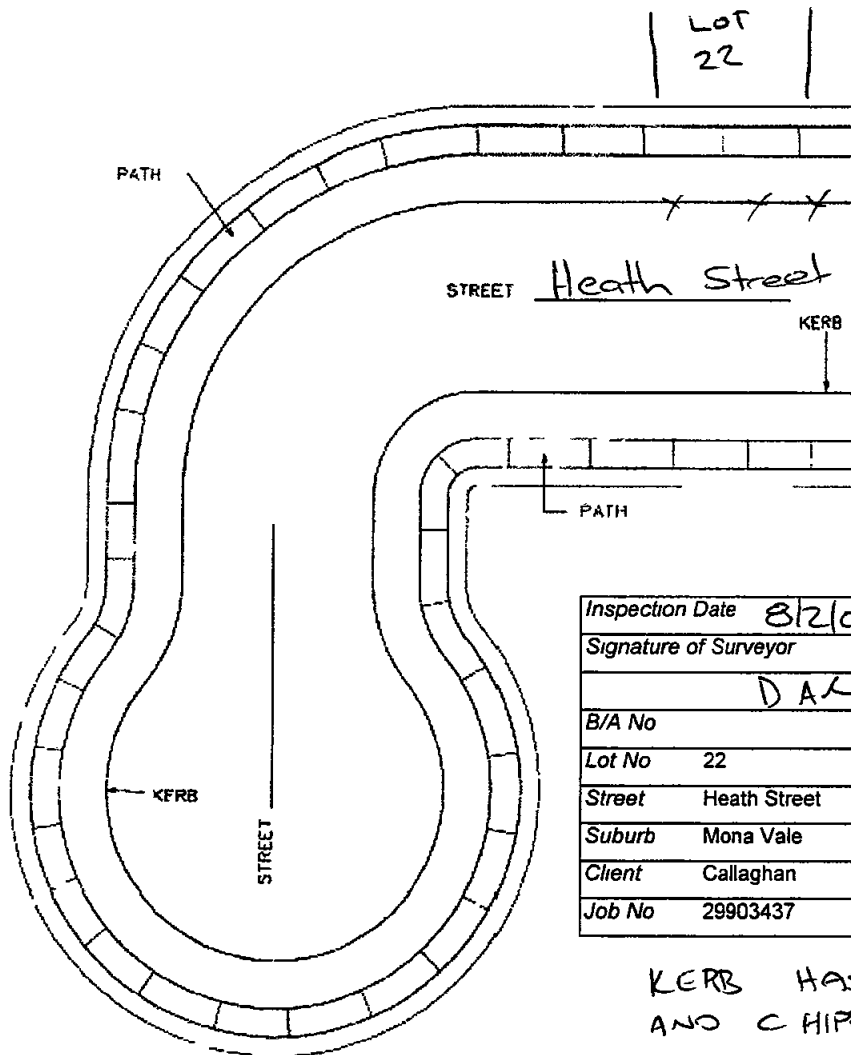
To Council/Engineers Department
From Clarendon Homes

Any Kerb & Gutter ☒ Yes ☐ No

Damage ☒ Yes ☐ No

Any Footpath ☐ Yes ☒ No

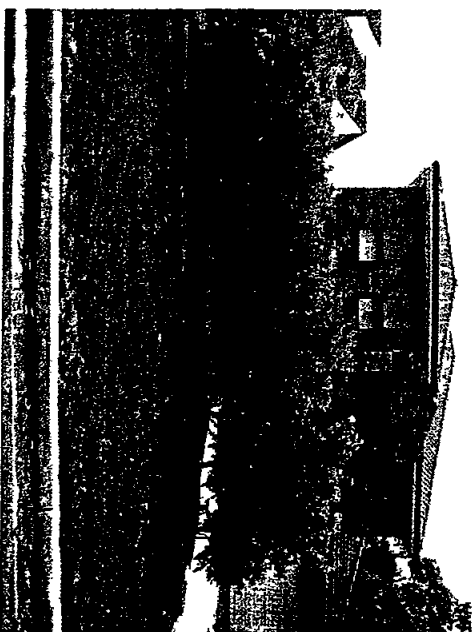
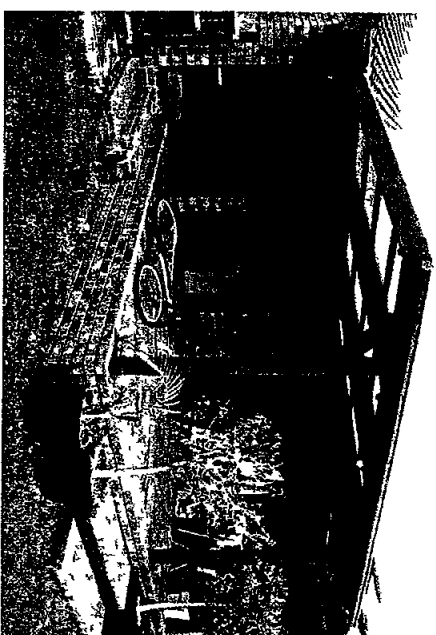
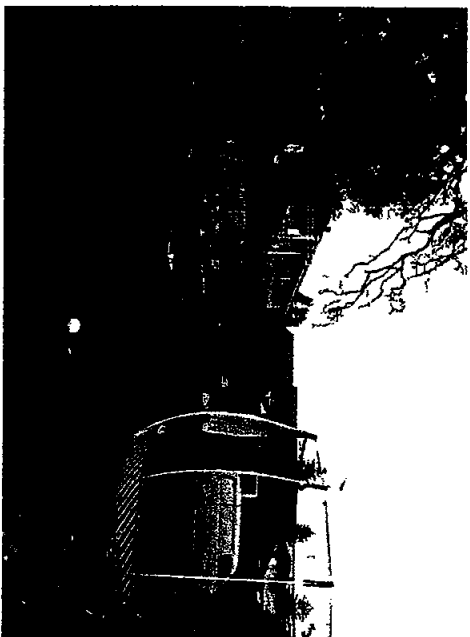
Damage ☐ Yes ☐ No



Inspection Date	8/2/08
Signature of Surveyor	DAK
B/A No	
Lot No	22
Street	Heath Street
Suburb	Mona Vale
Client	Callaghan
Job No	29903437

KERB HAS CRACKING
AND CHIPPING

Note Each damaged section must be indicated by a cross (X)



29903437 CALLAGHAN 21/1008702/7576;



HOME WARRANTY INSURANCE

Owners Copy

CGU POLICY CERTIFICATE NUMBER: 02.HWL.0067346 02

Home Building Regulation 2004 Clause 66(1)

Schedule 1 - Forms, Form 1

HOME BUILDING ACT 1989 Section 92

CERTIFICATE IN RESPECT OF INSURANCE RESIDENTIAL BUILDING WORK BY CONTRACTORS

A contract of insurance complying with section 92 of the Home Building Act 1989
has been issued by CGU Insurance Ltd ABN 27 004 478 371
in respect of

Construction of new residential dwelling

at

Lot 22 #28 Heath Street, Mona Vale, NSW 2103

Builder Job Number

29903437

carried out by

Clarendon Homes (NSW) Pty Ltd ACN 003892706 ABN 18003892706

for

Mr Wayne Victor Callaghan and Mrs Deborah Susan Callaghan

Subject to the Act and the Home Building Regulation 2004 and the conditions of
the insurance contract, cover will be provided to a beneficiary described in the
contract and successors in title to the beneficiary

Date 11th April 2008

Signed for and on behalf of the Insurers

This Certificate in respect of Insurance is issued for the building contract
dated 31/03/2008

for the contract sum of \$352,423

CGU ELIGIBILITY NUMBER 0002458

**This Certificate must be read in conjunction with the
CGU "HOME WARRANTY INSURANCE POLICY WORDING"**

**Please note that this Certificate and the Policy Wording are
VERY IMPORTANT DOCUMENTS which should be read carefully
and retained by you (and successive owners if applicable) for
the duration of the statutory period of cover**

CGU Home Warranty Insurance

A Division of CGU Insurance Limited ABN 27 004 478 371
An IAG Company

— 143 —

[illegible]

7. C. A. 1977, 1978, 1979, 1980, 1981, 1982, 1983, 1984, 1985, 1986, 1987, 1988, 1989, 1990, 1991, 1992, 1993, 1994, 1995, 1996, 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, 2

1 - 1000
 2 - 1000
 3 - 1000

REFERENCE - 7-1

10-11-68

25. 4. 19

[illegible]

23 115 45

1. The first step is to identify the problem or question that needs to be answered. This involves understanding the context and the specific requirements of the task.

[illegible]

EST -10 34

11

73 MAY 2008

51 Rec

31 FEB 1975

To GL Receipt:

Total Amount \$2 415 22

Includes GST of \$14.31

25 MAY 1958

Amounts Tendered

Chapter 22, 440 22

Total \$2,446 22

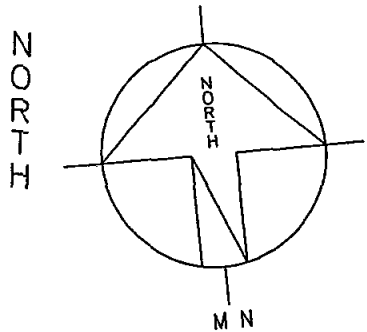
Founding	\$0.00
----------	--------

Charge	\$0.50
--------	--------

Nett £2,446 22

Printed 21/05/2008 4 46 46 PM

Cashier: CLUMMAS



LOT 34
SEC F

LOT 33
SEC F

LOT 32
SEC F

LOCALITY SKETCH

UBD AREA STD REVISION 44
MAP 138 REF L3

LOT 22
DP 7236
LGA PITTWATER

LOT 23
SEC F

NOTE: OWNER TO DEMOLISH & REMOVE
SITE EXISTING HOUSE INCLUDING FOOTINGS
& SERVICES ABOVE & BELOW GROUND
PATHS DRIVEWAY TREES & FENCES ETC
PRIOR TO COMMENCEMENT OF CONSTRUCTION
Position of structure in relation to Sydney

Water's assets is satisfactory
NOTE: CLARENDON LINES ARE APPROXIMATE
EXTENTS OF RISK ARE APPROXIMATE
DETERMINED ON SITE. SEDIMENT BARRIERS
ARE TO BE CUSTOMISED SITE SPECIFIC
It is the owner's responsibility to ensure that

all proposed fittings will drain to Sydney
Water's sewer
4 Any Plumbing and/or Drainage Work to be
carried out in accordance with the Sydney
Water Act 1994 AS 3500 and the NSW Code
of Practice
5 Gullies Inspection Shafts and Boundary Traps
shall not be placed under any Roof Balcony
Verandah, Floor or other cover unless
otherwise approved by Sydney Water

6 Property No 3422654

Reece, Castle Hill
Quick Check Agent on behalf of
SYDNEY WATER

Per Reece 28/05/08

STORMWATER TO STREET
via ON-SITE DETENTION
REFER TO HYDRAULIC ENGINEER'S DETAILS

Maximum 1000mm CUT
Maximum 1000mm FILL

DROP EDGE BEAM
510mm HIGH
FFL TO NGL

APPROX LOCATION OF
AIR CONDITIONING UNIT
(MIN 3m FROM BOUNDARY)

PROPOSED POSITION OF
5500L SLIMLINE ABOVE
GROUND RAINWATER TANK

RENDERED
RESIDENCE
TILE ROOF
No26

DROP EDGE BEAM
161mm HIGH
FFL TO FFL

FUTURE DRIVEWAY BY
OWNER AFTER HANDOVER

NOTE 8.5m HEIGHT RESTRICTION
FFL MUST BE ACCURATE
ANY INCREASE IN LEVELS WILL
NOT COMPLY WITH COUNCIL

APPROXIMATE POSITION OF
SEWER MAIN REFER TO
SEWER DIAGRAM FOR DETAILS

SITE PLAN PL RL11.61
PL RL11.12
PL RL11.10
PL RL9.9

SCALE 1 200

GENERAL NOTES

- A) THIS SURVEY IS SPECIFICALLY FOR CONTOUR PURPOSES ONLY THE BOUNDARIES OF
THE SUBJECT PROPERTY HAVE NOT BEEN INVESTIGATED
B) AREAS AND DIMENSIONS ARE SUBJECT TO SURVEY
C) SERVICES SHOWN HAVE BEEN DERIVED FROM VISUAL EVIDENCE APPARENT AT THE
TIME OF SURVEY THE RELEVANT SERVICE AUTHORITY SHALL BE CONTACTED TO
VERIFY THE EXISTENCE AND POSITION OF ALL SERVICES PRIOR TO THE
COMMENCEMENT OF ANY CONSTRUCTION OR EXCAVATION
D) CONTOURS ARE INDICATIVE OF SURFACE TOPOGRAPHY ONLY SURVEYED SPOT
LEVELS ARE THE ONLY VALUES TO BE RELIED ON FOR REDUCED LEVELS ON
PARTICULAR FEATURES

BM 22
RL 4 36
(AHD) HEATH STREET

WIND CLASSIFICATION "N2"

SLAB CLASSIFICATION "M"

DRIVEWAY GRADIENT PROFILE
SCALE-1:100

Clarendon
Residential Group

Clarendon Homes (NSW) P/L
21 Solent Circuit Baulkham Hills NSW 2153
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PREFERENCE TO SCALING

PRODUCT
MADISON
Urban
L/H Garage
Stylist Specification

CLIENT
Mr & Mrs CALLAGHAN

SITE ADDRESS
LOT 22 No 28 (DP 7236)
HEATH STREET
MONA VALE

D A DRAWING

DRAWN SA	DATE 28 02 08	Rev
RATIO 1 200 @ A3	CHECKED A H 3 3 08	E
SHEET 2	JOB No 29903437	

Foss, Debbie

Callaghan

To Sophie_Garland@pittwater.nsw.gov.au

Subject RE External colour selection for Callaghan / Lot No 22 Heath St, Mona Vale / Job # 29903437 / DA-212/08

From Sophie_Garland@pittwater.nsw.gov.au [mailto:Sophie_Garland@pittwater.nsw.gov.au]

Sent Tuesday, 15 July 2008 9:53 AM

To Fitton, Terri

Cc Foss, Debbie

Subject Re External colour selection for Callaghan / Lot No 22 Heath St, Mona Vale / Job # 29903437 / DA-212/08

Hi Terri/Debbie

I have just received correspondence regarding 28 Heath St. As previously discussed, the condition does not require re-selected external colours to be submitted for Council approval, and we will not be sending out stamped approved colours.

The condition requires external colours and materials to be dark and earthy in accordance with Council's policy, and these colours are to be "incorporated into the development and maintained over the life of the development". The changes to the external colours are to be submitted to the Certifier with the CC application.

Regards
Sophie Garland
Planner
Pittwater Council
Ph 9970 1155

Sent to Local - 28/7
Dess

15/07/2008



- Search
- Glossary
- Pittwater Council

Pittwater Local Environment

P21 DCP Preliminary Section

P21 DCP Section A - Shaping

P21 DCP Section B - General

P21 DCP Section C - Develop

P21 DCP Section D - Locality

D1 AVALON BEACH LOCALITY

D2 BAYVIEW HEIGHTS LOCALITY

D3 BILGOLA LOCALITY

D4 CHURCH POINT AND

D5 ELANORA HEIGHTS LOCALITY

D6 INGLESIDE LOCALITY

D7 KU-RING GAI CHASE

D8 LOWER WESTERN FC

D9 MONA VALE LOCALITY

D9 1 Character as viewed from the locality

D9 2 Scenic protection

D9 3 Building colours, materials and construction

D9 4 Height - General

D9 5 Height - Core A

D9 6 Front building line

D9 7 Side and rear building line

D9 8 Foreshore building line

D9 9 Building envelope

D9 10 Site coverage

D9 11 Site coverage

D9 12 Fences - General

D9 13 Fences - Flora

D9 3 Building colours, materials and construction

Outcomes

Outcomes

Achieve the desired future character of the Locality
The development enhances the visual quality and identity of the streetscape (S)
The colours and materials of the development harmonise with the natural environment (En S)
The visual prominence of the development is minimised (S)
Damage to existing native vegetation and habitat is minimised (En)

Controls

External colours and materials shall be dark and earthy tones as shown below

 Black ✓	 Dark gray ✓	 Dark green ✓
 Dark brown ✓	 Mid gray ✓	 Green ✓
 Brown ✓	 Dark blue ✓	

White, light coloured, red or orange roofs and walls are not permitted

 White ✗	 Light Blue ✗	 Red ✗
 Orange ✗	 Light gray ✗	 Beige ✗

Limited use of corporate colours may be permitted within Business and Light Industrial zoned land

Fixtures			
The applicant must install showerheads with a minimum rating of 3 star in all showers in the development		✓	✓
The applicant must install a toilet flushing system with a minimum rating of 3 star in each toilet 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 basin taps with a minimum rating of 3 star in each bathroom in the development		✓	
Alternative water			
Rainwater tank			
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	✓	✓	✓
The applicant must configure the rainwater tank to collect rain runoff from at least 200 square metres of the roof area of the development (excluding the area of the roof which drains to any stormwater tank or private dam)		✓	✓
The applicant must connect the rainwater tank to			
all toilets in the development		✓	✓
the cold water tap that supplies each clothes washer in the development		✓	✓
at least one outdoor tap in the development (Note: NSWHealth does not recommend that rainwater be used for human consumption in areas with potable water supply.)		✓	✓
Hot water			
The applicant must install the following hot water system in the development: or a system with a higher energy rating: gas instantaneous with a performance of 5 stars	✓	✓	✓
Cooling system			
The applicant must install the following cooling system: or a system with a higher energy rating: in at least 1 living area: 3 phase airconditioning. Energy rating: EER 2.5 - 3.0		✓	✓
The applicant must install the following cooling system: or a system with a higher energy rating: in at least 1 bedroom: 3 phase airconditioning. Energy rating: EER 2.5 - 3.0		✓	✓
The cooling system must provide for day/night zoning between living areas and bedrooms		✓	✓
Heating system			
The applicant must install the following heating system: or a system with a higher energy rating: in at least 1 living area: 3 phase airconditioning. Energy rating: EER 3.0 - 3.5		✓	✓
The applicant must install the following heating system: or a system with a higher energy rating: in at least 1 bedroom: 3 phase airconditioning. Energy rating: EER 3.0 - 3.5		✓	✓
The heating system must provide for day/night zoning between living areas and bedrooms		✓	✓
Ventilation			
The applicant must install the following exhaust systems in the development:			
At least 1 Bathroom: individual fan, ducted to façade or roof. Operation control: manual switch on/off		✓	✓
Kitchen: individual fan, ducted to façade or roof. Operation control: manual switch on/off		✓	✓
Laundry: natural ventilation only, or no laundry. Operation control: n/a		✓	✓
Artificial lighting			
The applicant must ensure that the primary type of artificial lighting is fluorescent or light emitting diode (LED) lighting in each of the following rooms and where the word 'dedicated' appears, the fittings for those lights must only be capable of accepting fluorescent or light emitting diode (LED) lamps:			
at least 4 of the bedrooms / study		✓	✓
the laundry		✓	✓
Natural lighting			
The applicant must install a window and/or skylight in the kitchen of the dwelling for natural lighting	✓	✓	✓
The applicant must install a window and/or skylight in 2 bathroom(s)/toilet(s) in the development for natural lighting	✓	✓	✓
Other			
The applicant must install a gas cooktop & electric oven in the kitchen of the dwelling		✓	
The applicant must install a fixed outdoor clothes drying line as part of the development.		✓	

AREAS	
SITE	929 m ²
GROUND FLOOR	153 04 m ²
FIRST FLOOR	165 41 m ²
GARAGE	33 55 m ²
PORCH	2 90 m ²
BALCONY	9 28 m ²
ALFRESCO	37 50 m ²
	m ²
TOTAL	401 68 m ²

[illegible]

22	CONSTRUCTION MANAGEMENT
21	SHADOW DIAGRAM @ 21ST JUNE
8	ELECTRICAL PLAN
7	SECTION & DETAILS
6	ELEVATIONS
5	ELEVATIONS
4	FIRST FLOOR PLAN
3	GROUND FLOOR PLAN
2	SITE PLAN
1	COVER SHEET
SHEET	DESCRIPTION

CLIENT'S SIGNATURE _____ DATE _____



BL No 2298C
A B N 18003892706

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PRODUCT

MADISON
Urban
L/H Garage

Stylist Specification

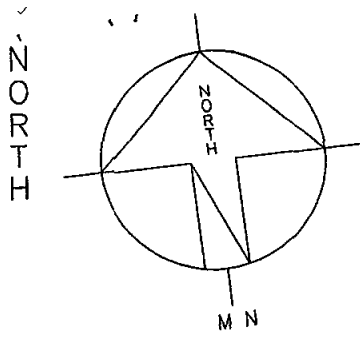
Master Issued 10 09 07 Revision C

CLIENT
Mr & Mrs CALLAGHAN

SITE ADDRESS
LOT 22 No 28 (DP 7236)
HEATH STREET
MONA VALE

5 D A DRAWING

DRAWN P L	DATE 14 03 08	Rev E
RATIO N/A	CHECKED Z V 17 3 08	
SHEET 1	JOB No 29903437	



LOT 34
SEC F

LOT 33
SEC F

LOT 32
SEC F

LOCALITY SKETCH
UBD AREA STD REVISION 44
MAP 138 REF L3

NOTE OWNER TO DEMOLISH & REMOVE FROM SITE EXISTING HOUSE INCLUDING FOOTINGS & SERVICES ABOVE & BELOW GROUND PATHS DRIVEWAY TREES & FENCES ETC PRIOR TO COMMENCEMENT OF CONSTRUCTION

NOTE ALL GROUND LINES ARE APPROXIMATE EXTENT OF FILL & BATTER WILL BE DETERMINED ON SITE SEDIMENT BARRIERS ARE TO BE CUSTOMISED SITE SPECIFIC

LOT 21
SEC F

LOT 22
SEC F
929m²

LOT 23
SEC F

LOT 22
DP 7236
LGA PITTWATER

STORMWATER TO STREET
via ON-SITE DETENTION
REFER TO HYDRAULIC ENGINEER'S DETAILS

Maximum 1000mm CUT
Maximum 1000mm FILL

DROP EDGE BEAM
510mm HIGH
FFL TO NGL

APPROX LOCATION OF
AIR CONDITIONING UNIT
(MIN 3m FROM BOUNDARY)

PROPOSED POSITION OF
5500L SLIMLINE ABOVE
GROUND RAINWATER TANK

RENDERED
RESIDENCE
TILE ROOF
No26

DROP EDGE BEAM
161mm HIGH
FFL TO FFL

FUTURE DRIVEWAY BY
OWNER AFTER HANDOVER

NOTE 8.5m HEIGHT RESTRICTION
FFL MUST BE ACCURATE
ANY INCREASE IN LEVELS WILL
NOT COMPLY WITH COUNCIL

APPROXIMATE POSITION OF
SEWER MAIN REFER TO
SEWER DIAGRAM FOR DETAILS

SITE PLAN

SCALE 1 200

GENERAL NOTES

- A) THIS SURVEY IS SPECIFICALLY FOR CONTOUR PURPOSES ONLY THE BOUNDARIES OF THE SUBJECT PROPERTY HAVE NOT BEEN INVESTIGATED
B) AREAS AND DIMENSIONS ARE SUBJECT TO SURVEY
C) SERVICES SHOWN HAVE BEEN DERIVED FROM VISUAL EVIDENCE APPARENT AT THE TIME OF SURVEY THE RELEVANT SERVICE AUTHORITY SHALL BE CONTACTED TO VERIFY THE EXISTENCE AND POSITION OF ALL SERVICES PRIOR TO THE COMMENCEMENT OF ANY CONSTRUCTION OR EXCAVATION
D) CONTOURS ARE INDICATIVE OF SURFACE TOPOGRAPHY ONLY SURVEYED SPOT LEVELS ARE THE ONLY VALUES TO BE RELIED ON FOR REDUCED LEVELS ON PARTICULAR FEATURES

CLIENT'S SIGNATURE

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Residential Group
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Urban
L/H Garage
Stylist Specification

CLIENT
Mr & Mrs CALLAGHAN
SITE ADDRESS
LOT 22 No 28 (DP 7236)
HEATH STREET
MONA VALE

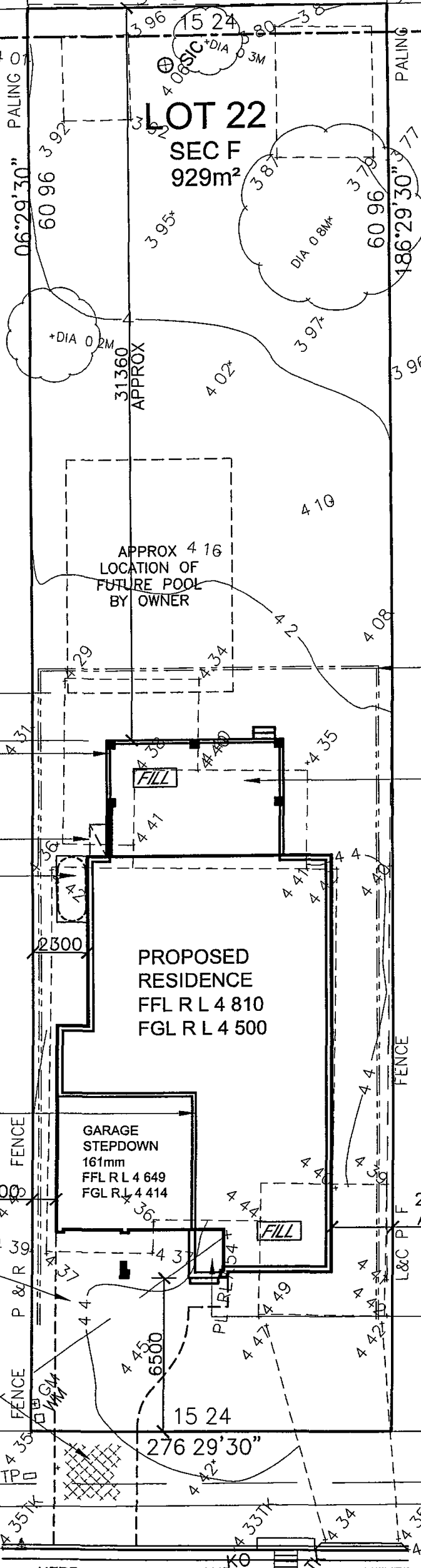
D A DRAWING
DRAWN
S A
DATE
28 02 08
RATIO
1 200 @ A3
SHEET
2
Rev
E
CHECKED
A H 3 3 08
JOB No
29903437

BM 22
RL 4 36
(AHD)
HEATH STREET

NOT THESE PLANS MUST BE READ IN
CONJUNCTION WITH THE CONDITIONS OF
DEVELOPMENT

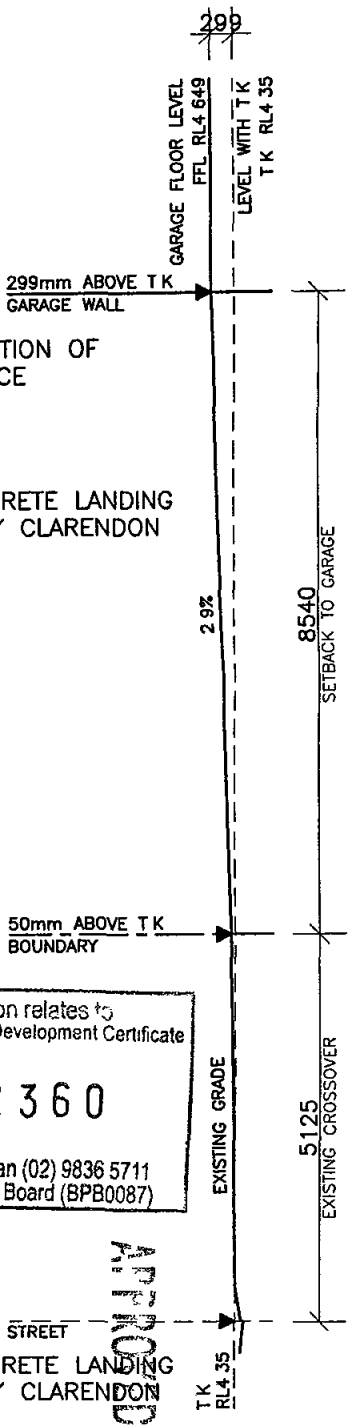
WIND CLASSIFICATION "N2"
SLAB CLASSIFICATION "M"

DRIVEWAY GRADIENT PROFILE
SCALE-1 100



2 STOREY
BRICK
RESIDENCE
TILE ROOF
No 30

This information relates to
Construction/Complying Development Certificate
5 0 0 2 3 6 0
Issued by Andrew Dean (02) 9836 5711
Building Professionals Board (BPP0087)



SMOKE DETECTOR

FLOOR JOIST DIRECTION

DOWN PIPE LOCATION

GARDEN TAP LOCATION

LIFT OFF HINGES

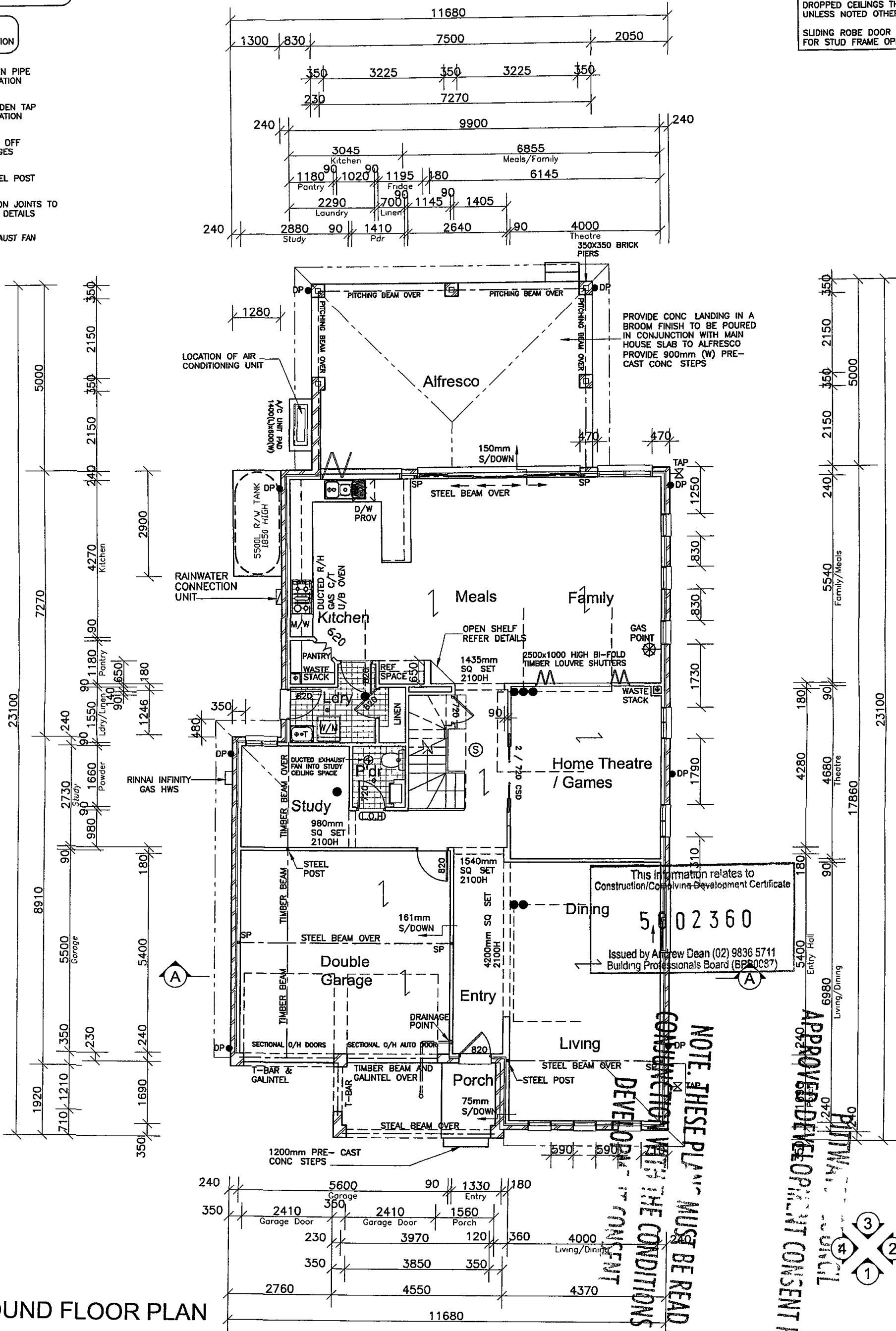
STEEL POST

ARTICULATION JOINTS TO ENGINEERS DETAILS

EXHAUST FAN

NOTE
300 DEEP BULKHEADS &
DROPPED CEILINGS THROUGHOUT
UNLESS NOTED OTHERWISE

SLIDING ROBE DOOR SIZE IS
FOR STUD FRAME OPENING



GROUND FLOOR PLAN

CLIENT'S SIGNATURE

DATE

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MONA VALE

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RATIO 1 100 @ A3	CHECKED Z V 17 3 08	E
SHEET 3	JOB No 29903437	

(S) SMOKE DETECTOR

1 FLOOR JOIST DIRECTION

DP ● DOWN PIPE LOCATION

TAP X GARDEN TAP LOCATION

(L.O.B) LIFT OFF HINGES

SP_s STEEL POST

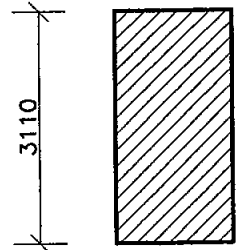
ARTICULATION JOINTS TO ENGINEERS DETAILS

⊗ EXHAUST FAN

ACOUSTIC INSULATION

⊙ AIR CONDITIONING DUCT

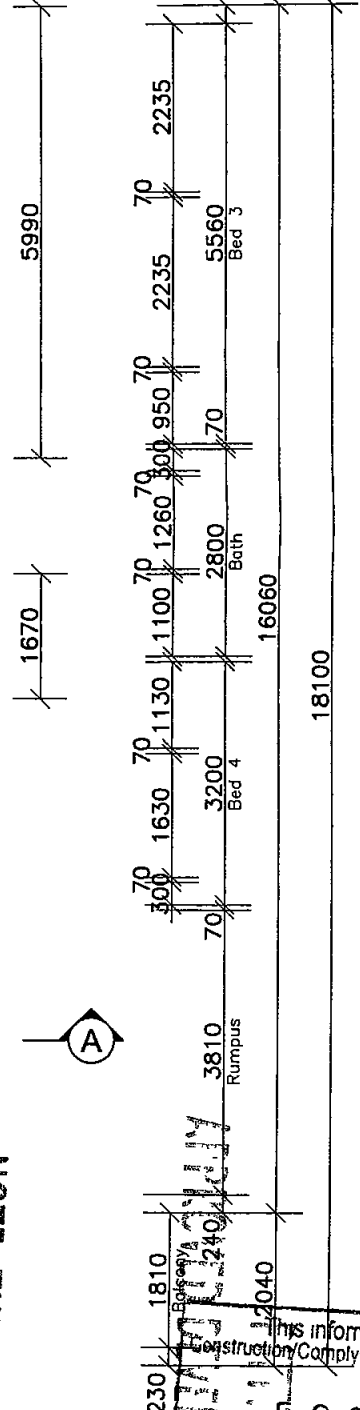
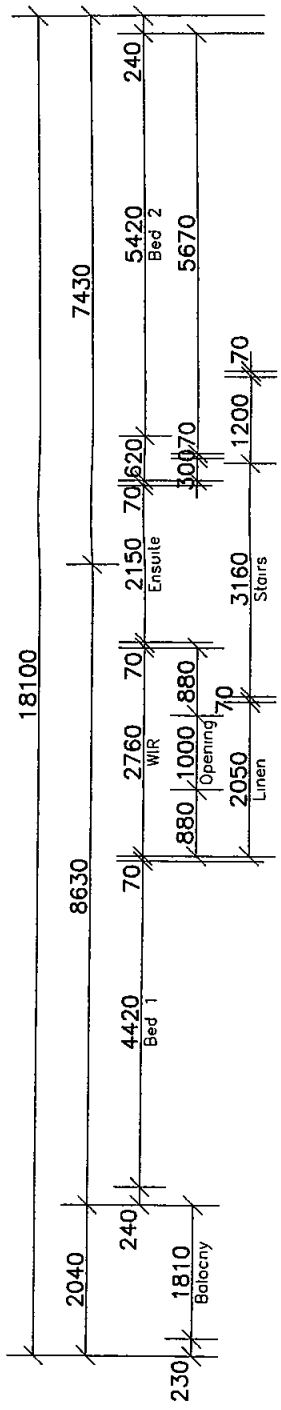
1530



STAIR CUTOUT
SCALE 1 100

NOTE
300 DEEP BULKHEADS &
DROPPED CEILINGS THROUGHOUT
UNLESS NOTED OTHERWISE

SLIDING ROBE DOOR SIZE IS
FOR STUD FRAME OPENING



FIRST FLOOR PLAN

CLIENT'S SIGNATURE

DATE

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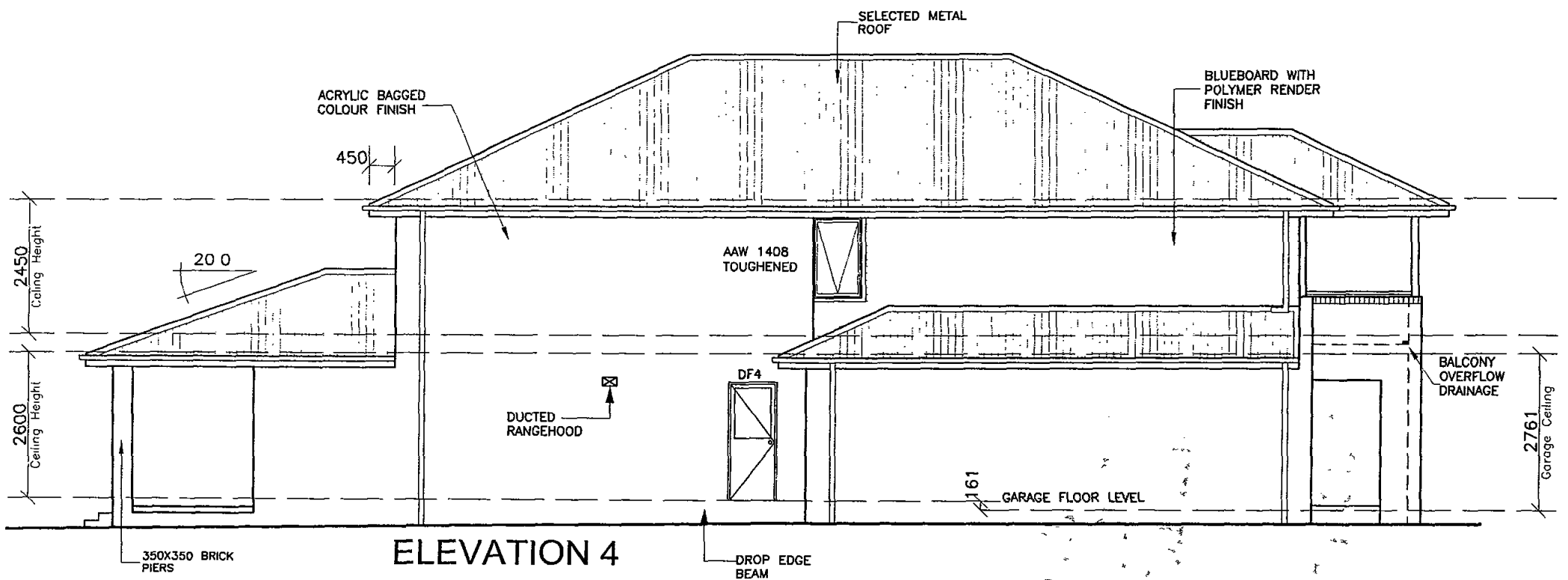
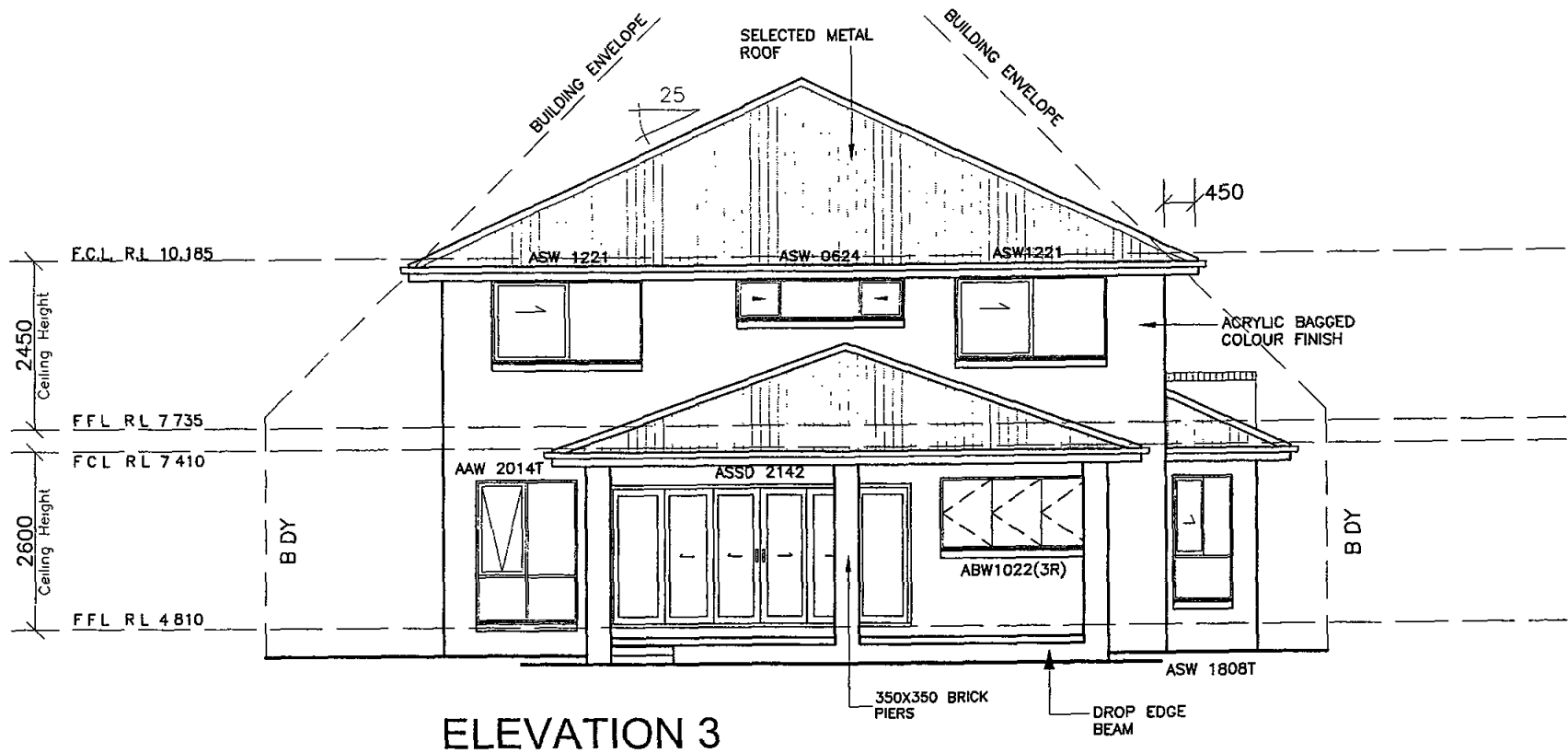
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CLIENT
Mr & Mrs CALLAGHAN

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LOT 22 No 28 (DP 7236)
HEATH STREET
MONA VALE

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SHEET 4	JOB No 29903437	



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5002360

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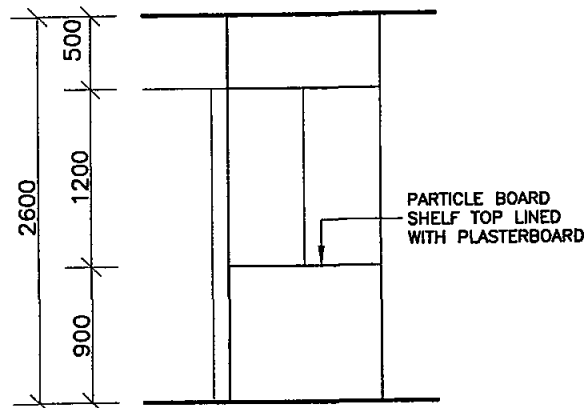
PRODUCT
MADISON
Urban
L/H Garage
Stylist Specification

CLIENT
Mr & Mrs CALLAGHAN

SITE ADDRESS
LOT 22 No 28 (DP 7236)
HEATH STREET
MONA VALE

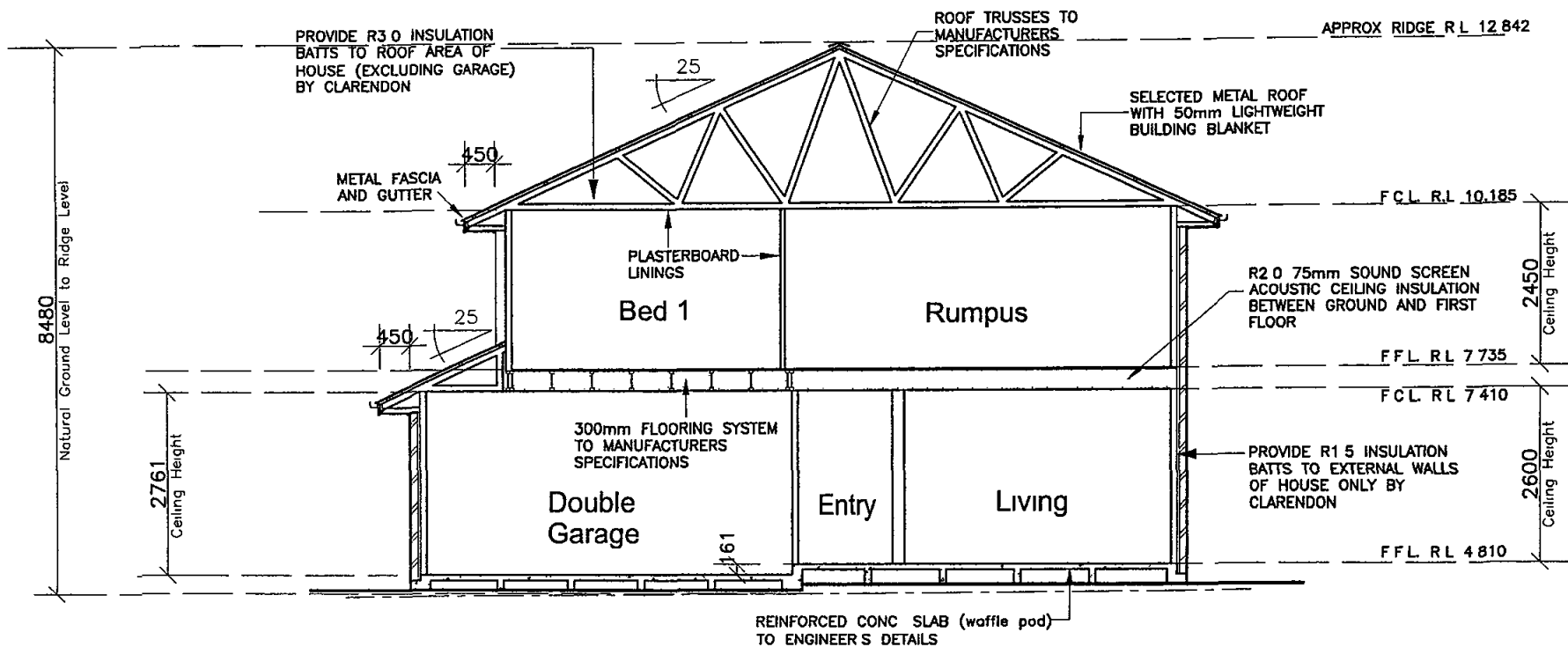
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RATIO 1 100 @ A3	CHECKED Z V 17 3 08	
SHEET 6	JOB No 29903437	



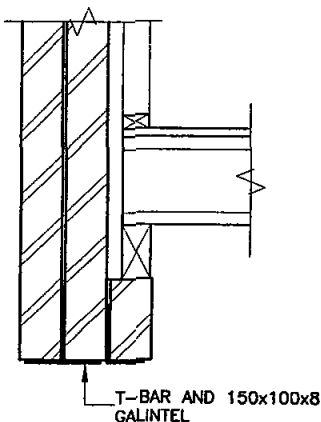
KITCHEN OPEN
SHELF DETAIL

SCALE 1 50



SECTION A-A

- *PROVIDE BORAL UNIVERSAL RANGE EXPOSURE GRADE COMMON BRICKS DUE TO PROXIMITY OF COASTAL WATERS
- *PROVIDE STAINLESS STEEL WALL TIES
- *PROVIDE LINTELS AND EXPOSED STRUCTURAL STEEL DUE TO PROXIMITY TO COASTAL WATERS
- *PROVIDE COLORBOND VALLEY GUTTERS
- *PROVIDE EXPOSURE GRADE MORTAR DUE TO PROXIMITY OF COASTAL WATERS



SECTION "A"

SCALE 1 20

MEDIUM EXTERNAL WALL COLOUR DARK EXTERNAL ROOF COLOUR
5 STAR GAS INSTANTANEOUS HWU
3STAR RATED SHOWERHEADS 3STAR RATED TOILET FLUSHING SYSTEM *KITCHEN & BATHROOM TAPS WITH MINIMUM 3STAR FLOW RATE *PROVIDE WATER SAVING FLICKMIXER KITCHEN TAP
PROVIDE ENERGY SAVING FLUORESCENT GLOBES TO ALL LIGHT FIXTURES AS PER BASIX CERTIFICATE
WEATHER STRIP ACROSS ENTRY AND LAUNDRY DOOR BY OWNER
RAINWATER TANK MUST CONNECT TO ALL TOILETS IN THE DEVELOPMENT WATER TAP THAT SUPPLIES WASHING MACHINE AND ONE GARDEN TAP

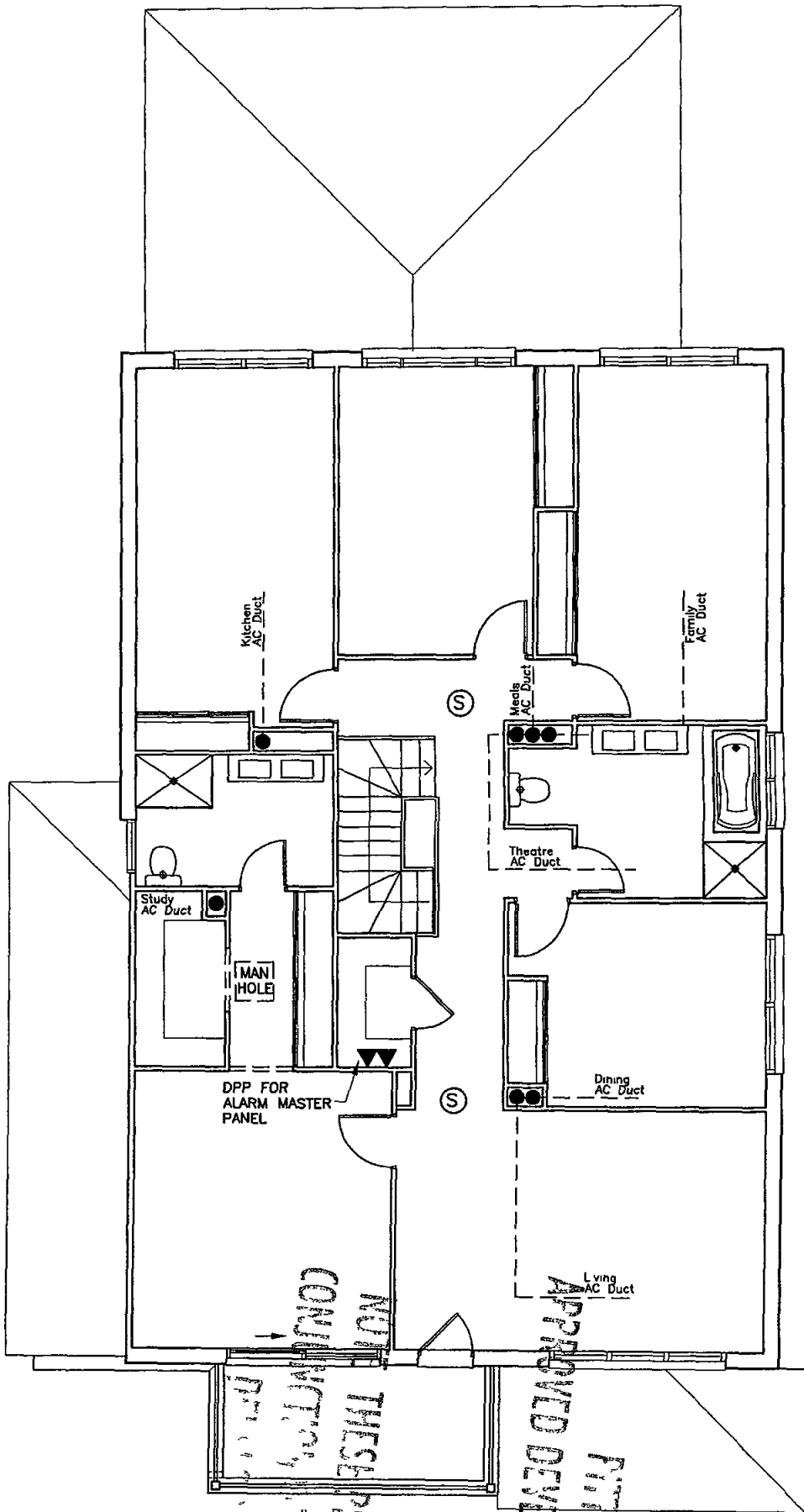
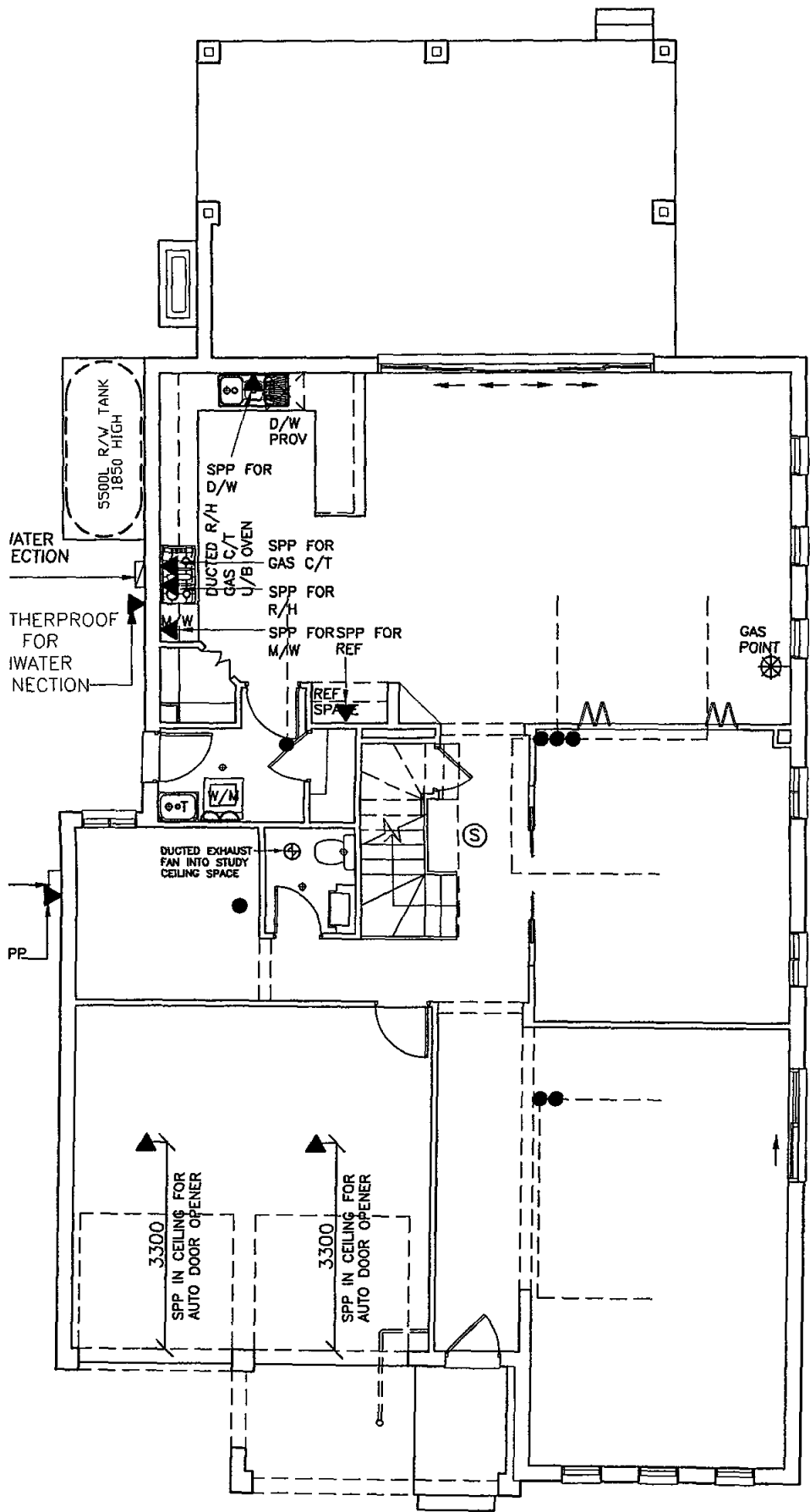
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			MADISON Urban L/H Garage		Mr & Mrs CALLAGHAN	
			Stylist Specification		SITE ADDRESS	
					LOT 22 No 28 (DP 7236) HEATH STREET MONA VALE	
				D A DRAWING		
				DRAWN P L	DATE 14 03 08	Rev E
				RATIO 1 100 @ A3	CHECKED Z V 17 3 08	
				SHEET 7	JOB No 29903437	

ELECTRICAL LEGEND	
⊕	EXHAUST FAN
Ⓢ	SMOKE DETECTOR
Ⓢ	AIR CONDITIONING DUCT

Electrical Legend-Standard items		Electrical Legend-Extra over items	
SINGLE POWER POINT	0	AIR CONDITIONING	1
DOUBLE POWER POINT	17	GAS C/T SINGLE POWER POINT	1
CEILING LIGHT OUTLET	27	GAS POINT	2
EXT WALL MOUNTED LIGHT POINT	3	AUTO DR SINGLE POWER POINT	2
SMOKE DETECTOR	3	ALARM DOUBLE POWER POINT	1
EXHAUST FAN	1	INTERCOM SINGLE POWER POINT	1
2-WAY SWITCH	1	VACUUM SINGLE POWER POINT	0
D/W SINGLE POWER POINT	1	SPA SINGLE POWER POINT	0
REF SINGLE POWER POINT	1	DOWN LIGHT	0
M/W SINGLE POWER POINT	1	INT WALL MOUNTED LIGHT	0
R/H SINGLE POWER POINT	1	TV POINT	0
OVEN ISOLATOR SWITCH	1	PHONE POINT	0
W/M DOUBLE POWER POINT	1		



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Construction/Completion Declaration Certificate
5002360
Issued by Andrew Dean (02) 9836 5711
Building Professionals Board (BPB0037)

CLIENT'S SIGNATURE _____

DATE _____



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Stylist Specification

CLIENT

Mr & Mrs CALLAGHAN

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LOT 22 No 28 (DP 7236)
HEATH STREET
MONA VALE

D A DRAWING

DRAWN

P L

RATIO

1 100 @ A3

SHEET

8

DATE

14 03 08

CHECKED

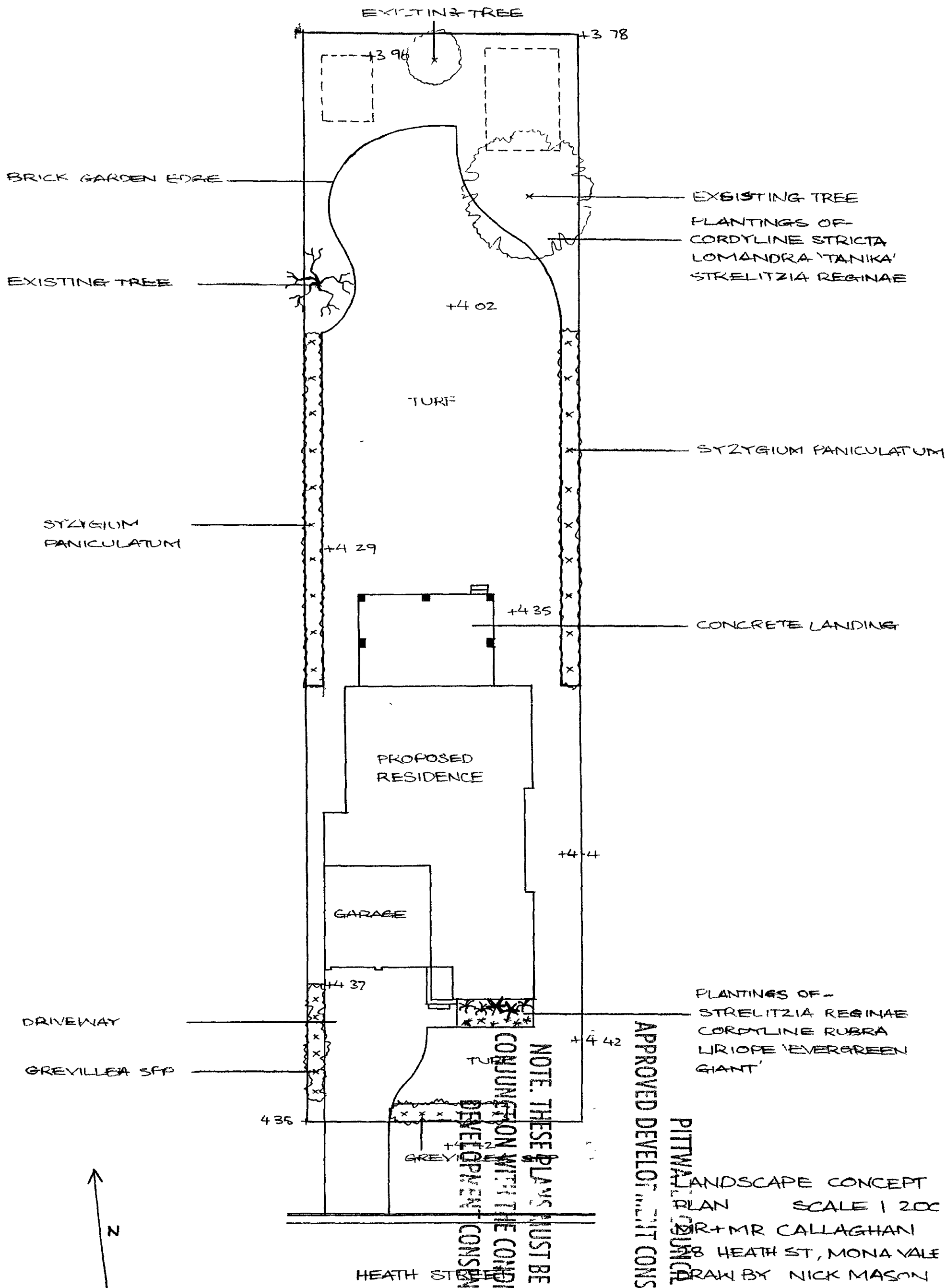
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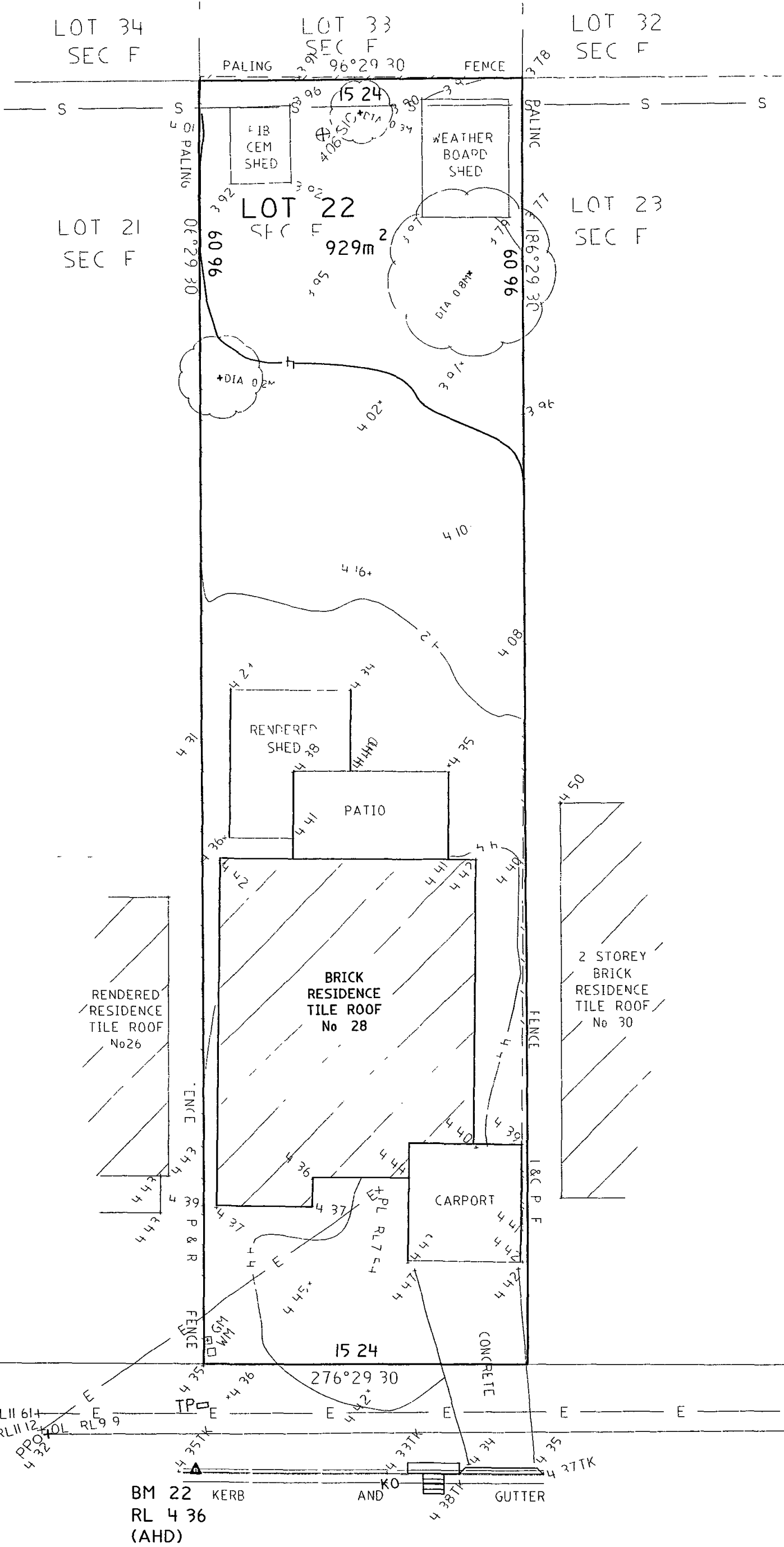
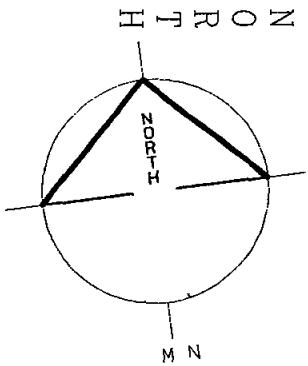
JOB No

29903437

Rev

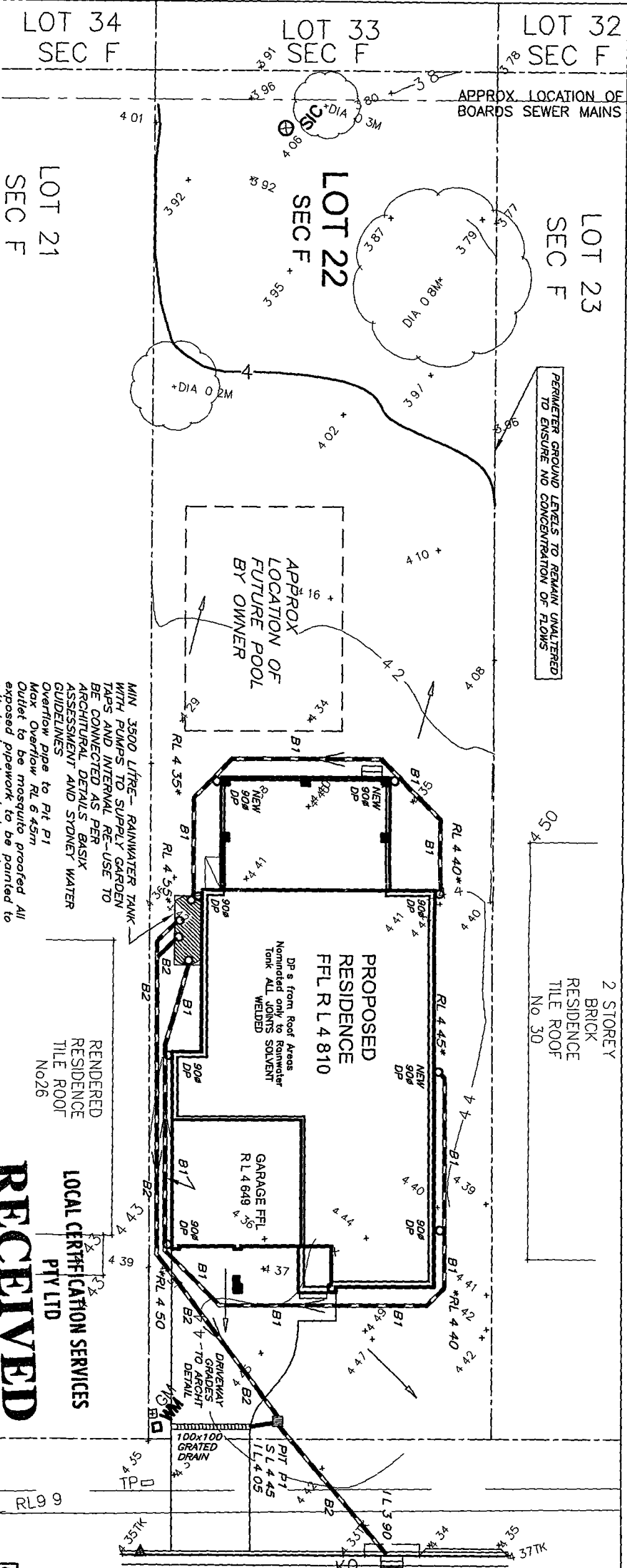
E





APPROXIMATE POSITION OF
SEWER MAIN REFER TO
SEWER DIAGRAM FOR DETAILS

COPYRIGHT		GENERAL NOTES		SYMBOLS & ABBREVIATIONS		ASPECT DEVELOPMENT & SURVEY PTY LTD		PROJECT		CLIENT	
COPYRIGHT OF THIS PLAN AND IN THE ACCOMPANYING DETAILS WHERE APPLICABLE VESTS WITH PROJECT DEVELOPMENT & SURVEY PTY LTD		THIS SURVEY IS SPECIFICALLY FOR CONTOUR PURPOSES ONLY. THE BOUNDARIES OF THE SUBJECT PROPERTY HAVE NOT BEEN INVESTIGATED.		GP GULLY PIT		CONSULTING REGISTERED SURVEYORS		OUR REFERENCE 21/008702/75763		CLARENDON HOMES PTY LTD	
PLAN AND DIMENSIONS ARE SUBJECT TO SURVEY		THE BOUNDARIES OF THE SUBJECT PROPERTY HAVE NOT BEEN INVESTIGATED.		SIP SURFACE INLET PIT		ABN 60 078 649 000		DATE 21/008702/75763		CALLAGHAN	
APPROVED CLIENT OR THE SURVEY WAS CARRIED OUT		THE BOUNDARIES OF THE SUBJECT PROPERTY HAVE NOT BEEN INVESTIGATED.		SIP SURFACE INLET PIT		PI BOX 61		DATE 21/008702/75763		29903437	
						KINGSBORO NSW 1480				28 HEATH STREET	
										MONA VALE	



GROUND FLOOR LAYOUT

REFER TO SHEET 2 FOR RAINWATER TANK DETAILS
LEAF GUTTER GUARDS OR SIMILAR SCREENING
RECOMMENDED TO ALL GUTTERS

STORMWATER LAYOUT NOTES

- PITS UP TO 600 DEEP TO BE 450 x 450 U.N.O. PITS UP TO 900 DEEP TO BE 600 x 600 U.N.O. PITS UP TO 1200 DEEP TO BE 900 x 600 U.N.O. PITS EXCEEDING 1200 DEEP TO BE 900 x 900 U.N.O. PITS TO BE PRECAST CONCRETE OR RENDERED BRICK WITH CONCRETE HEAVY DUTY GRATES U.N.O. LIGHT DUTY PITS AND GRATES MAY BE USED ONLY IN LIGHT/FOOT TRAFFICABLE AREAS U.N.O. ALL PITS TO BE BENCHED TO DISCHARGE PIPES U.N.O. GAL. STEP IRONS TO ALL PITS EXCEEDING 900 DEPTH
- COVER AND SUMP GRATES SHALL COMPLY WITH AS2733 & AS4198
- DOWNPIPES TO BE 90 DIA IF CHARGED AND 100 x 50 BOX IF GRAVITY U.N.O. DP S SHALL BE INSTALLED IN ACCORDANCE WITH AS3500 3.2.4.11 & AS4198 MAX ROOF AREA PER DOWNPIPE IS 30SQM WITH A QUAD 115 HI-FRONT GUTTER U.N.O.
- PIPES TO HAVE 1% MIN GRADE U.N.O. BY PIT INVERTS PIPES TO BE V.C. CLASS X OR U.P.C. CLASS STORMWATER PIPE TO AS1254 1260 1273 1477 2179 2 AND WHERE EXPOSED TO DIRECT SUNLIGHT TO HAVE ADEQUATE PROTECTION TO U.V. RADIATION IN ACCORDANCE WITH AS2032 SEWER GRADE/GAL PIPES TO BE USED WHERE COUNCIL POLICY OR CONSENT REQUIRE SUCH
- GUTTER OUTLETS SHALL BE FITTED VERTICALLY TO THE SOLE OF THE EAVE GUTTERS
- RAINFALLS TO HAVE AN OVERFLOW DUCT OR WEIR 50mm BELOW THEIR CREST
- DIRECTED ON TO ROOF SURFACES
- RISING MAINS (PRESSURE PIPED) TO BE IN ACCORDANCE WITH AS3500 1.2
- SUBSOIL DRAINS TO BE IN ACCORDANCE WITH AS2439 1 CLASS 100 TO BE USED ONLY IN SINGLE DWELLINGS
- ALL PIPE JOINTS TO BE IN ACCORDANCE WITH AS3500 3.2.2.7
- ALL VALVES TO BE IN ACCORDANCE WITH AS3500 3.2
- EXPANSION JOINTS SHALL COMPLY WITH AS3500 3.2 TABLE 4.1 PVC JOINTS AND ACCESSORIES TO COMPLY WITH AS2179 2 & AS4198

TOTAL EXISTING HARD SURFACE AREA = 362sqm
TOTAL PROPOSED HARD SURFACE AREA = 315sqm
ADDITIONAL HARD SURFACE AREA <25sqm HENCE NO OSD

MIN 3500 LITRE - RAINWATER TANK
WITH PUMPS TO SUPPLY GARDEN
TAPS AND INTERNAL RE-USE TO
BE CONNECTED AS PER
ARCHITECTURAL DETAILS BASIC
ASSESSMENT AND SYDNEY WATER
GUIDELINES
Overflow pipe to Pit P1
Max Overflow RL 6.45m
Outlet to be mosquito proofed All
exposed pipework to be painted to
withstand external elements

RENDERED
RESIDENCE
TILE ROOF
No26
LOCAL CERTIFICATION SERVICES
PTY LTD

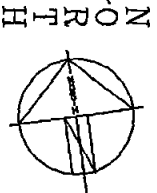
RECEIVED

This information relates to
(a) the information/development
Building Professionals Board (BPB0087)
Issued by Andrew Daan (02) 9636 5711

PIPE SCHEDULE			
REFER TO NOTES FOR PIPE CLASS			
TAG	PIPE DIA	MIN GRADE	
B1	100	CHARGED	
B2	100	2%	

ALL OTHER SURFACE WATERS
TO BE STRICTLY CONNECTED
TO A SEPARATE SYSTEM BY
OWNER IN ACCORDANCE WITH
AS 3500 3.2.003 AND BCA
PART 3.1.2.3

RAINWATER TANKS WITH PLUMBS
TO SUPPLY GARDEN TAPS AND
INTERNAL RE-USE AS PER
BASIC ASSESSMENT



REVISIONS	

ISSUE	PRINTS	ISSUED TO	DATE
1	EMAIL	BUILDER/CLIENT	9-5-08

SCALE(S) 1:200, 1:100 U.N.O.
SCALE BAR - 1m INTERVALS
DATE APRIL 2008
DRAWN M/I
DESIGNED M/I
APPROVED



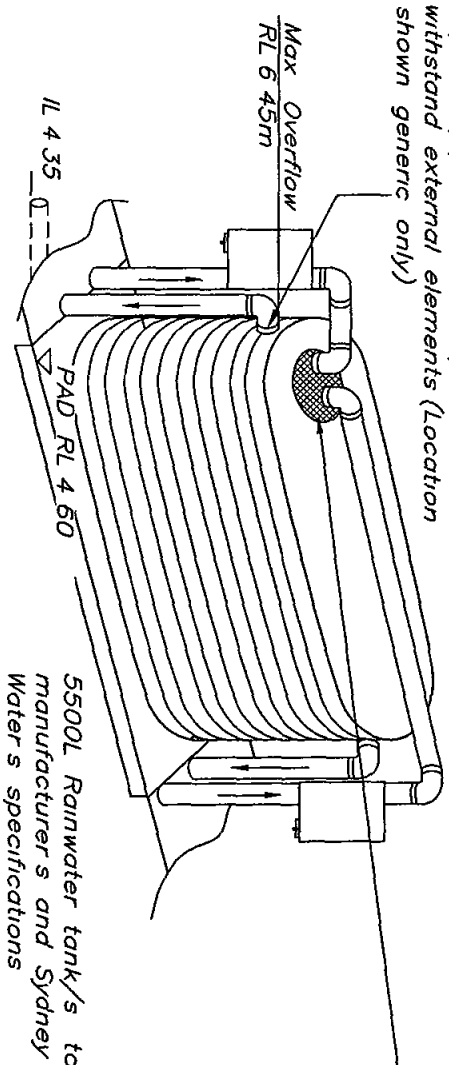
IBRAHIM STORMWATER CONSULTANTS
CONSULTING CIVIL ENGINEERS
P.O. BOX 400 CHEROKEE NSW 2126
TELEPHONE (02) 9980 5515 FAX (02) 9980 6114
WWW.STORMWATER.CONSULTANTS

PROJECT
PROPOSED RESIDENCE
AT 28 HEATH STREET
MONA VALE FOR
MR & MRS CALLAGHAN.

THIS DRAWING
STORMWATER
LAYOUT SH.1
BUILDER
CLARENDON HOMES

JOB NUMBER
C1420-03437
SHEET No
1 of 2
REVISION

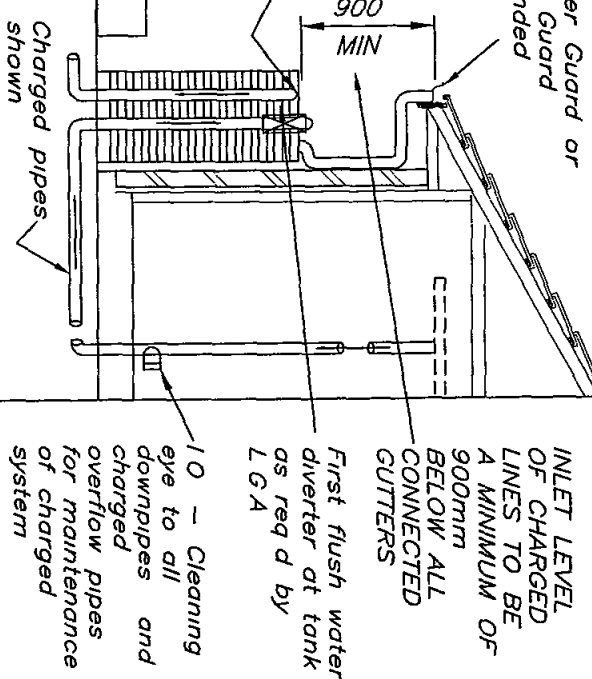
Twin 90/1000dia Overflow pipes to Pit
P1 Outlet to be mosquito proofed All
exposed pipework to be painted to
withstand external elements (Location
shown generic only)



Mosquito proof strainer
or cover - regular
cleaning/maintenance
by owner essential

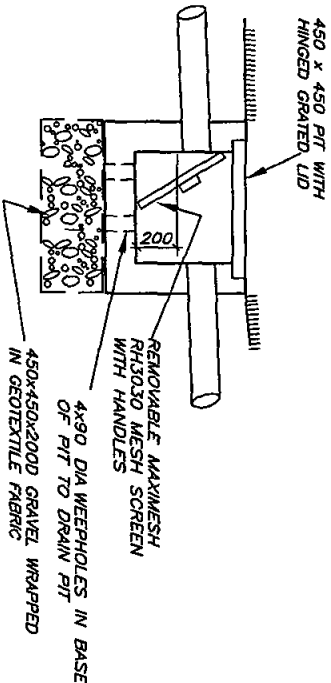
Internal submersible
or external pumps
to supply garden
taps and internal
re-use per Basis
assessment
Location as per
architecturals

Leaf Gutter Guard or
Downpipe Guard
recommended



RAINWATER TANK

TANK DETAILS SHOWN ARE A SUGGESTED CONFIGURATION ONLY ANY MODIFICATIONS TO TANK VOLUME OR INLET AND OUTLET LEVELS MUST BE APPROVED BY ENGINEER
PRIOR TO COMMENCEMENT OF CONSTRUCTION TANK SHAPE & DEVICES SHOWN ARE DIAGNOSTIC ONLY MINIMUM OF 450 CLEARANCE (UNLESS LGA REQUIRES LARGER
SETBACK) TO SIDE BOUNDARIES MUST BE MAINTAINED CLIENT IS RESPONSIBLE TO ENSURE COMPLIANCE WITH THIS IN THE INSTALLED STATE
Charged stormwater lines from Roof Areas ONLY to rainwater tank
All joints to be solvent welded All exposed pipework to be painted to withstand external elements
First flush water diverter at tank to comply with Sydney Water and council DCP's An approved switch system similar to Rainbank to be used via mains Pumps to
manuf specs Rain Tank to be installed and maintained to manufacturers specifications and to comply with all Sydney Water Guidelines
Client to be responsible for maintenance system of charged pipelines Debris accumulation significantly affects systems performance Maintenance program essential
Structural details for tank base by manufacturer or others



SILT ARRESTOR PIT - P1

ISSUE	PRINTS	ISSUED TO	DATE
1	EMAIL	BUILDER/CLIENT	9-5-08

SCALE(S) 1:200 1:500
SCALE BAR - 1m INTERVALS
DATE APRIL 2008
DRAWN M/I
DESIGNED M/I
APPROVED



IBRAHIM STORMWATER CONSULTANTS
CONSULTING CIVIL ENGINEERS

P.O. BOX 400 CHEERYBROOK NSW 2126
TELEPHONE (02) 9980 5515 FAX (02) 9980 8114
www.stormwater.net.au

PROJECT
**PROPOSED RESIDENCE
AT 28 HEATH STREET
MONA VALE, FOR
MR & MRS CALLAGHAN**

THIS DRAWING
**STORMWATER
DETAILS SH 1**
BUILDER
CLARENDON HOMES

JOB NUMBER
C1420-03437
SHEET No
2 of 2
REVISION

BUILDER/CLIENT TO ENSURE THAT ALL SAFETY MEASURES ARE TAKEN
DURING CONSTRUCTION INCLUDING BUT NOT LIMITED TO SAFETY
FENCING SIGNAGE OBTAINING STRUCTURAL AND GEOTECHNICAL
ADVICE WHERE EXCAVATIONS ARE NEAR STRUCTURES OR SERVICES
SAFETY MEASURES RECOMMENDED BY PRODUCT SUPPLIERS ETC

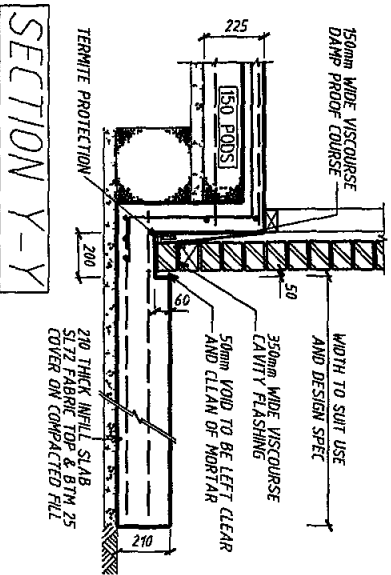
REVISIONS

NO	REVISION

THIS DRAWING IS DIAGNOSTIC ONLY & NOT TO BE SCALE
REPRODUCED OR COPIED WHOLE OR IN PART IN ANY FORM WITHOUT THE PRIOR
WRITTEN APPROVAL OF IBRAHIM STORMWATER CONSULTANTS

HATCHED AREA DENOTES
210 THICK INFILL SLAB
SL72 FABRIC TOP/BTM 25
COVER ON COMPACTED FILL

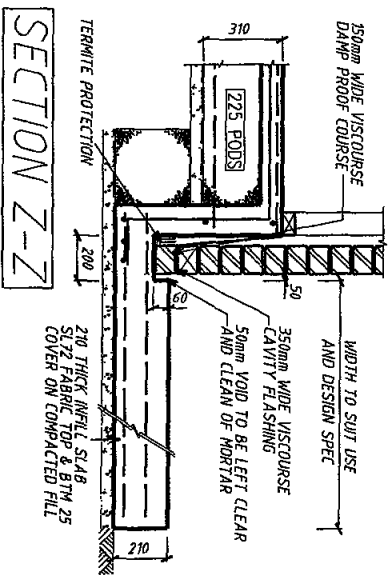
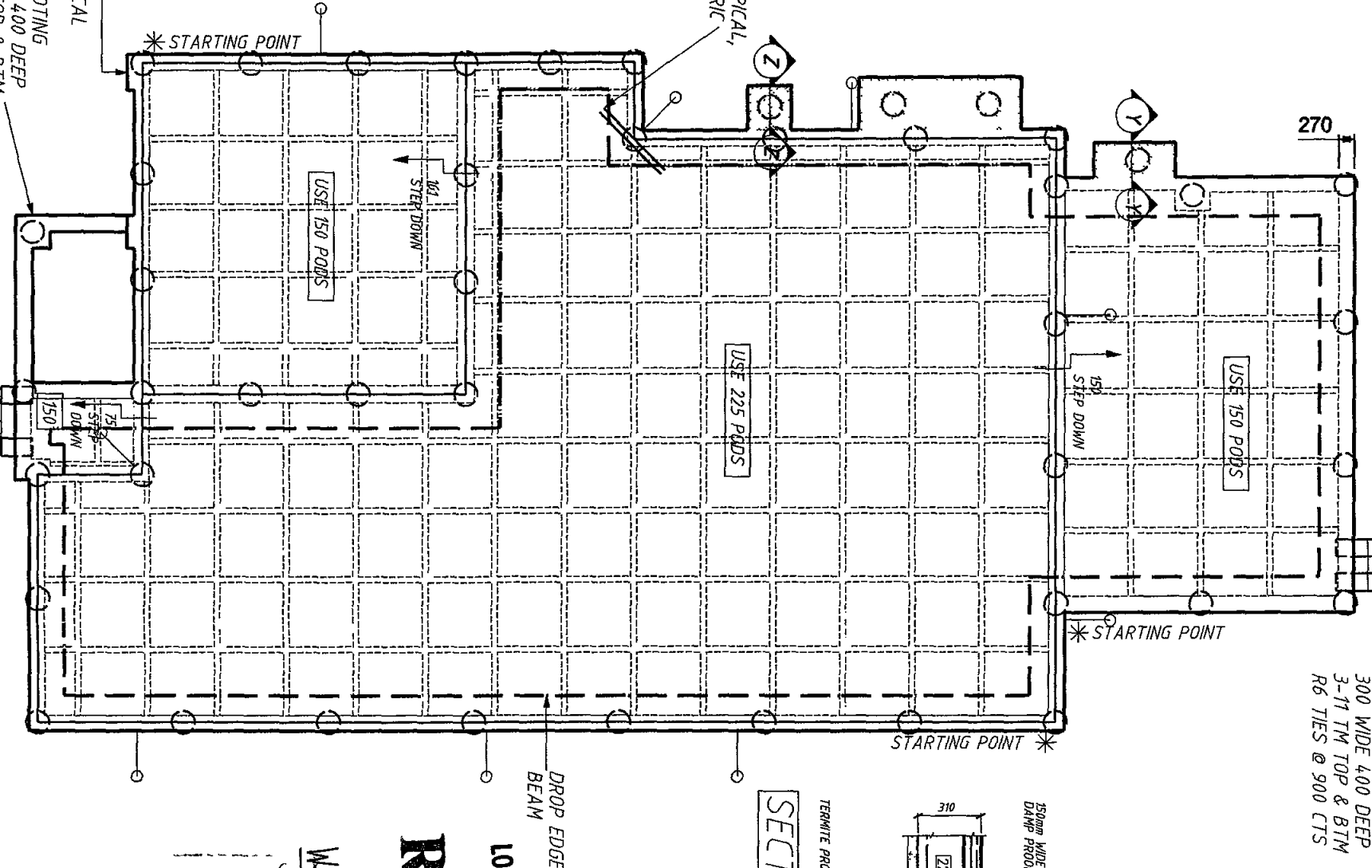
DENOTES ARTICULATION
IN BRICKWORK



2-N12 BARS 1500 LONG, TYPICAL,
TIED TO UNDERSIDE OF FABRIC

WIDEN BEAM TO FORM
600 SQUARE x 400 DEEP
MASS CONCRETE PAD TYPICAL

STRIP FOOTING
300 WIDE 400 DEEP
3-11 TM TOP & BTM
R6 TIES @ 900 CTS
WIDEN AS REQUIRED
TO 600 SQUARE



LOCAL CERTIFICATION SERVICES
PTY LTD

RECEIVED

WHEEL POD PLAN
This information relates to
Construction Certificate (Certificate)

5 0 0 2 3 6 0

Issued by Andrew Dean (02) 9836 5711
Licensing Professionals Board (BFB0087)

NOTES

- ADDITIONAL PIERS IN THE CUT SECTION MAY BE REQUIRED TO ACHIEVE THE SAME BEARING AS PIERS IN THE FULL SECTION
- OVERALL SLAB DIMENSIONS TO BE CHECKED AGAINST ARCHITECTURAL PRIOR TO COMMENCEMENT OF WORK
- 270 RIBS UNDER LOAD BEARING WALL

CONCRETE SLAB DETAIL PLAN

CLIENT CALLAGHAN
LOCATION LOT 22, NO 28 HEATH STREET MONA VALE

DRAWN BY AR SCALE 1:100 SHEET NO 1
ISSUE A DATE 12/5/08 JOB NO 29563CL

GENERAL

THESE DRAWINGS TO BE READ IN CONJUNCTION WITH ALL ARCHITECTURAL AND OTHER CONSULTANTS DRAWINGS AND SPECIFICATIONS. DIMENSIONS SHALL NOT BE OBTAINED BY SCALING THE STRUCTURAL DRAWINGS. REFER TO ARCHITECT'S FINAL DRAWINGS.

ALL WORKMANSHIP AND MATERIALS TO BE IN ACCORDANCE WITH THE REQUIREMENTS OF RELEVANT AUSTRALIAN STANDARD CODES AND THE REGULATIONS OF THE RELEVANT BUILDING AUTHORITY DURING CONSTRUCTION. THE STRUCTURE SHALL BE MAINTAINED IN A STABLE CONDITION AND NO PART BE OVER STRESSED. THE BUILDER BE RESPONSIBLE FOR ANY DAMAGE TO THE WORKS DURING CONSTRUCTION.

CONCRETE

CONCRETE SPECIFICATION (F_c 28 DAYS) TO BE FOLLOWS

LOCATION	CEMENT	F _c	MAX AGG. SIZE	SUMP
PIERS	TYPE A	15 MPa	20	80
SLAB	TYPE A	20 MPa	20	80
STRIP FOOTINGS	TYPE A	25 MPa	20	80

CLEAR COVER TO REINFORCEMENT TO BE AS FOLLOWS
UNLESS NOTED OTHERWISE

LOCATION	FORMED & SHELTERED	FORMED & EXPOSED	POURED ON GROUND
SLABS & WALLS	20	30	65
BEAMS	25	40	65
COLUMNS	40	50	—

REINFORCEMENT SYMBOLS ARE FOLLOWS
(R) - STRUCTURAL GRADE ROUND BARS (250 N)
(N) - HOT ROLLED DEFORMED BARS (400 N)
(SL) - HARD-DRAWN WIRE REINFORCING FABRIC (450 N)
(S) - STRUCTURAL GRADE DEFORMED BARS
NO HOLES OR CHASES OTHER THAN THOSE SHOWN ON THE STRUCTURAL DRAWINGS TO BE MADE IN CONCRETE MEMBERS WITHOUT PRIOR APPROVAL OF THE ENGINEER.

CONSTRUCTION JOINTS WHERE NOT SHOWN SHALL BE LOCATED TO THE APPROVAL OF THE ENGINEER.
BEAM DEPTHS ARE GIVEN FIRST AND INCLUDE SLAB THICKNESS.
ALL REINFORCEMENT TO BE ADEQUATELY SUPPORTED IN ITS REQUIRED POSITION AND COVER DURING PLACEMENT OF CONCRETE.
PIPES OR CONDUITS SHALL NOT BE PLACED WITHIN THE CONCRETE COVER TO REINFORCEMENT WITHOUT THE APPROVAL OF THE ENGINEER.
ALL CONCRETE TO BE MECHANICALLY VIBRATED AND SHALL BE CAREFULLY WORKED AROUND THE REINFORCEMENT AND INTO THE CORNERS OF FORMWORK.
ALL CONCRETE SHALL BE CURED BY MOIST CURING BY CONTINUAL WETTING FOR AT LEAST 7 DAYS OR THE USE OF AN APPROVED CURING COMPOUND.

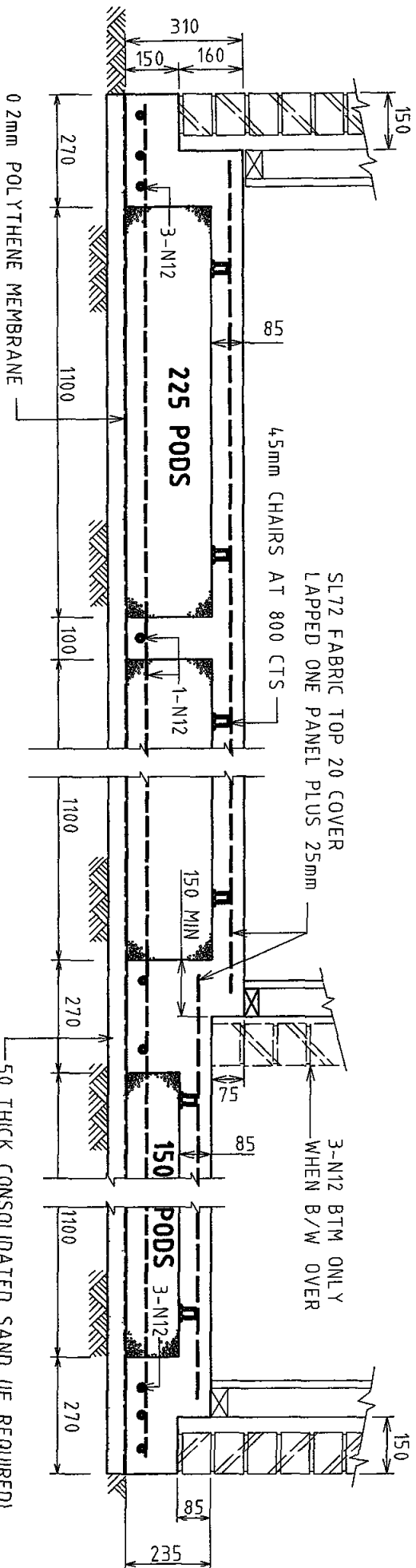
FOUNDATIONS
FOOTINGS ARE DESIGNED FOR AN ALLOWABLE BEARING PRESSURE OF 100 kPa. PIER HOLES ARE DESIGNED FOR ALLOWABLE BEARING PRESSURE OF 200 kPa. FOUNDATION MATERIAL SHALL BE APPROVED PRIOR TO CONSTRUCTION.

ADDITIONAL
SITE TO BE STRIPPED OF ALL ORGANIC MATTER AND ASSOCIATED TOPSOIL. ALL SITE FILLING PLACED BENEATH RAFT SLAB TO BE TREATED IN ACCORDANCE WITH CLAUSE 6.4 OF AS 2870.2:1998.
A 1 METRE WIDE APRON WITH 25 CROSS FALL AWAY FROM SLAB EDGE IS TO BE FORMED ALL AROUND THE RAFT SLAB WHERE APPLICABLE.
RAFT SLAB TO BE LAID ON 50mm THICKNESS OF CONSOLIDATED SAND COVERED WHERE PLATFORM IS NOT LEVEL, UNLESS NOTED OTHERWISE WITH 10mm THICK POLYTHENE VAPOUR BARRIER WITH ALL JOINTS PROPERLY LAPPED AND TAPED AT PENETRATIONS.
ADDITIONAL CONCRETE PIERS MAY BE REQUIRED UNDER SLAB TO EVEN BEARING IN SOIL AS RECOMMENDED BE AUSTRALIAN STANDARD AS 2870.
IF THE LOCATION OF THE SLAB IS NEXT TO AN ABOVE OR BELOW ON SITE DETENTION SYSTEM OR BELOW GROUND RAINWATER TANK, THE BUILDER IS TO ADVISE ENGINEER IN ORDER TO ENSURE THE CONCRETE PIERS ARE DRILLED 500mm BELOW INVERT LEVEL OF TANK OR THE FOOTING OF THE SUPPORTING WALL FOR AN ABOVE GROUND DETENTION SYSTEM.
DESIGNED TO AS 2870

NOTE N12 BARS CAN BE REPLACED WITH 10 65mm HDW (450MPa STRESS GRADE)

PIERING NOTES

- NO PIERS ARE NECESSARY WHEN BEAMS ARE BEARING ON NATURAL OR CONTROLLED FILL EXCEPT WHEN WITHIN THE ZONE OF INFLUENCE OF SEWER OR STORMWATER LINES
- BEAMS TO BE FOUNDED OR PIERED TO AN EVEN BEARING
- SPACE PIERS AT 2400 CTS UNDER ALL EXTERNAL & INTERNAL LOAD BEARING BEAMS AND PADS WHEN CONSTRUCTED ON UNCONTROLLED/ NON COMPACTED MATERIAL 400 DIA TO CLAY AND SAND OR 300 DIA TO ROCK AND SHALE
- PIERS REQUIRED UNDER INTERNAL RIB BEAMS WHEN CONSTRUCTED ON MORE THAN 300mm OF UNCONTROLLED/NON COMPACTED MATERIAL INTERNAL PIER SPACING 2400 x 2400 CENTRES
- PROVIDE ADDITIONAL 1-N12 BAR TOP OVER PIERED EXTERNAL AND INTERNAL BEAMS AND RIBS



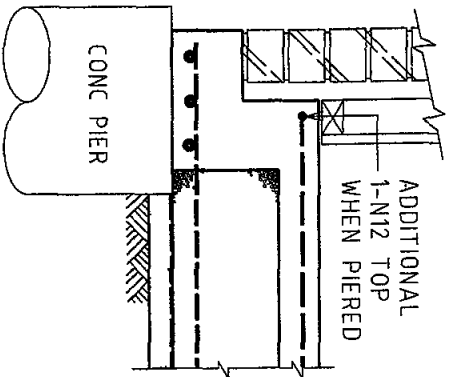
EDGE BEAM

INTERNAL RIB

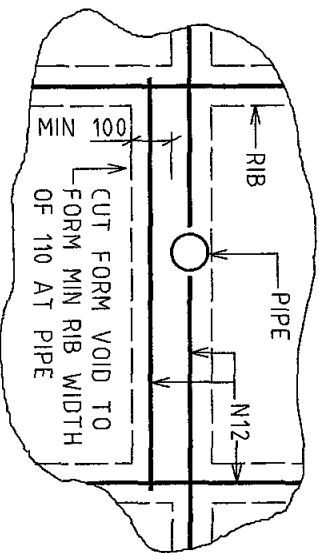
STEP DOWN DETAIL

GARAGE EDGE BEAM

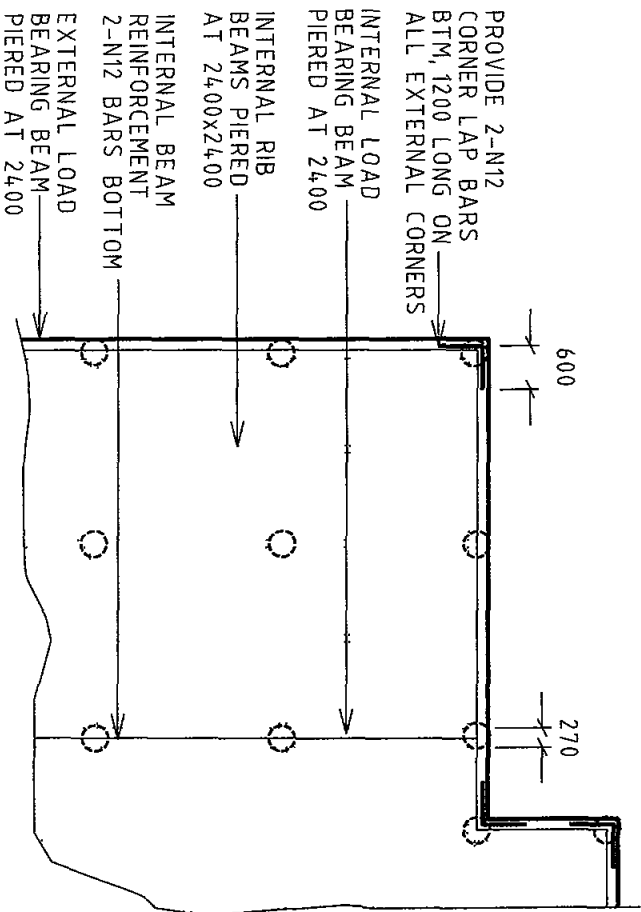
REINFORCEMENT FOR RIBS AND BEAMS (U N O)			
WIDTH	TOP STEEL	BTM STEEL	
111-270	-	2-N12	
271-330	1-N12	3-N12	
331-440	2-N12	4-N12	
441-550	3-N12	5-N12	
551-660	4-N12	6-N12	



TYPICAL PIERING DETAIL

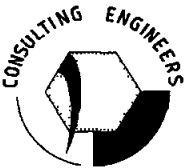


PIPE PENETRATION THROUGH RIB



Raflettos

ACN 079047466
LEVEL 2, 103 VANESSA STREET
KINGSGROVE NSW 2208
PO BOX 161 KINGSGROVE NSW 2208



Zanuttini

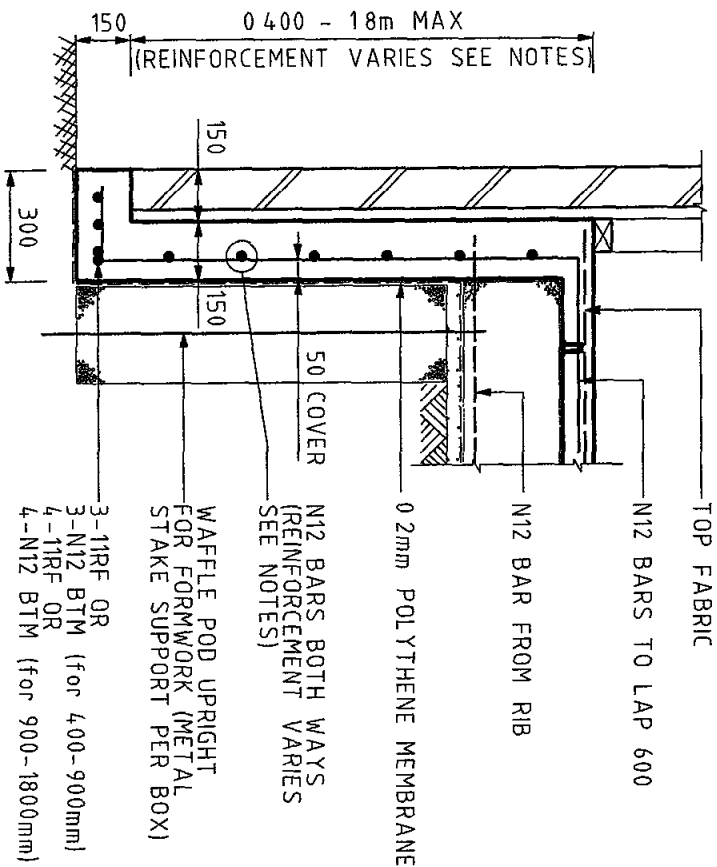
Pyild
TELEPHONE (02) 9654 9311
FACSIMILE (02) 9654 9704
DX 11392 HURSTVILLE NSW



STRUCTURAL DETAIL PLAN

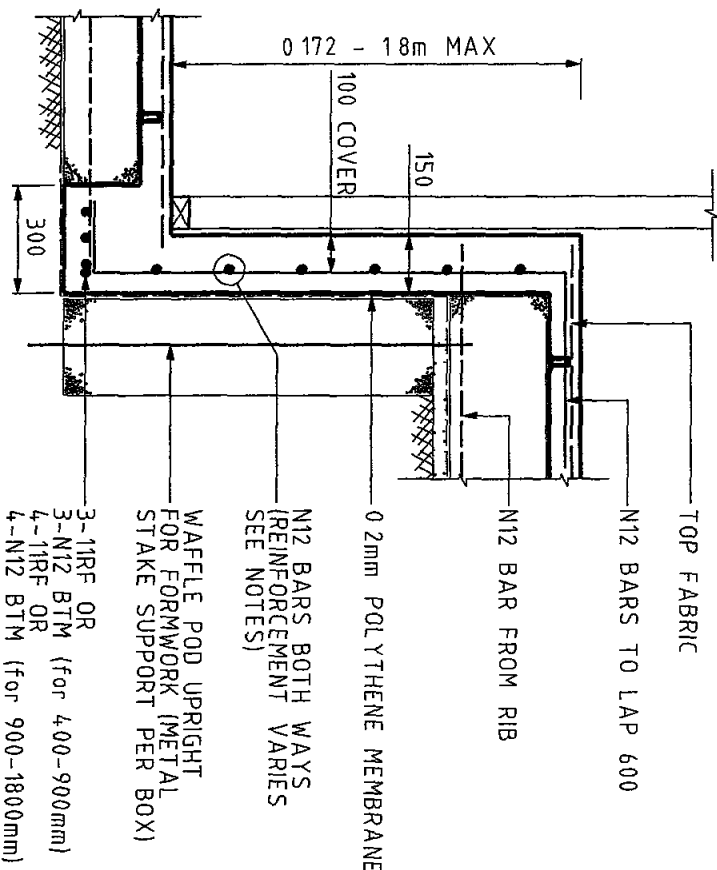
CLIENT CALLAGHAN
LOCATION LOT 22, NO 28 HEATH STREET MONA VALE

CLASSIFICATION	M	SCALE	1 100	SHEET NO	2
ISSUE	A	DATE	12/5/08	JOB No	29563CL



EXTERNAL DEEP BEAM

DEEP BEAM DEPTH	BEAM REINFORCEMENT
400 - 900mm	N12 BARS AT 600 CENTRES & 1-N12 CENTRALLY
900 - 1500mm	N12 BARS AT 300 CENTRES BOTH WAYS
1500 - 1800mm	N12 BARS AT 200 CENTRES BOTH WAYS

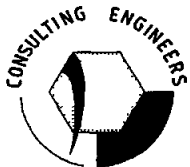


INTERNAL DEEP BEAM

DEEP BEAM DEPTH	BEAM REINFORCEMENT
172 - 400mm	N12 BARS AT 1200 CENTRES & 1-N12 HORIZONTAL
400 - 900mm	N12 BARS AT 600 CENTRES & 1-N12 CENTRALLY
900 - 1500mm	N12 BARS AT 300 CENTRES BOTH WAYS
1500 - 1800mm	N12 BARS AT 200 CENTRES BOTH WAYS

RAFFLETTOS

ACN 079047466
LEVEL 2, 103 VANESSA STREET
KINGSGROVE NSW 2208
PO BOX 161 KINGSGROVE NSW 2208



ZANUTTINI

TELEPHONE (02) 9554 9311
FASCILUMILE (02) 9554 9764
DX 11382 HURSTVILLE NSW

BE MIE AUST



STRUCTURAL DETAIL PLAN

CLIENT	CALLAGHAN
LOCATION	LOT 22, NO 28 HEATH STREET MONA VALE
DRAWN BY	AR
SCALE	1 100
SHEET No	3
ISSUE	A
DATE	12/5/08
JOB No	79563CL

(TOP OF BEAM TO BE FLUSH WITH TOP PLATE OF ROOF)
10mm STIFFENER PLATE
WELDED TO TOP OF
CHAMFER SECTION OF BEAM

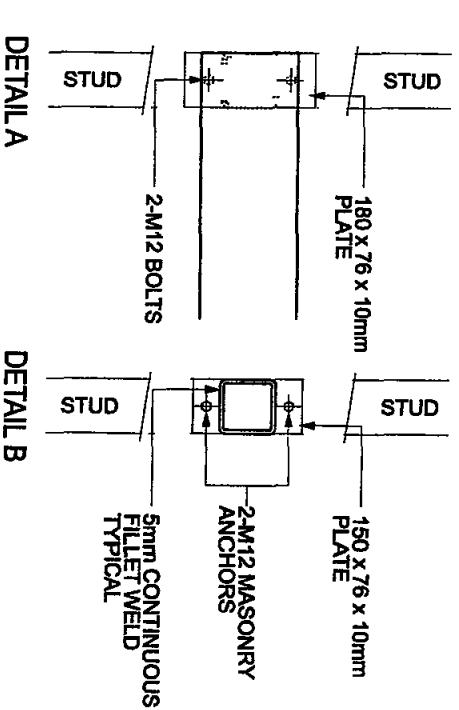
— SEE DETAIL A

-2-M12 BOLTS

76 x 76 x 4mm SHS

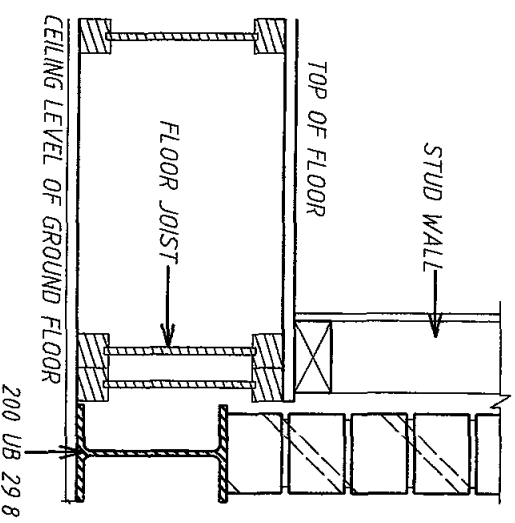
- 2-M12 MASONRY ANCHORS
- 150 x 76 x 10mm PLATE

TYPICAL SECTION

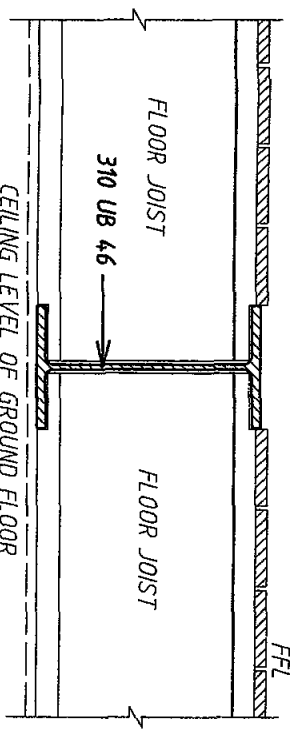


- ALL STEELWORK TO BE PAINTED WITH AN APPROVED CORROSIVE RESISTANT PRIMER

SHS DENOTES SQUARE HOLLOW SECTION OR STEEL POST ALL POST TO BE 76 x 76 x 4mm SHS BUILD POST INTO STUD FRAMEWORK
DS DENOTES DOUBLE 90 x 90 HARDWOOD STUDS



SCALE 110



SCALE 110

RAFFLETTOS
ACN 079047486
LEVEL 2, 103 VANESSA STREET
KINGSGROVE NSW 2208
PO BOX 161 KINGSGROVE NSW 2208

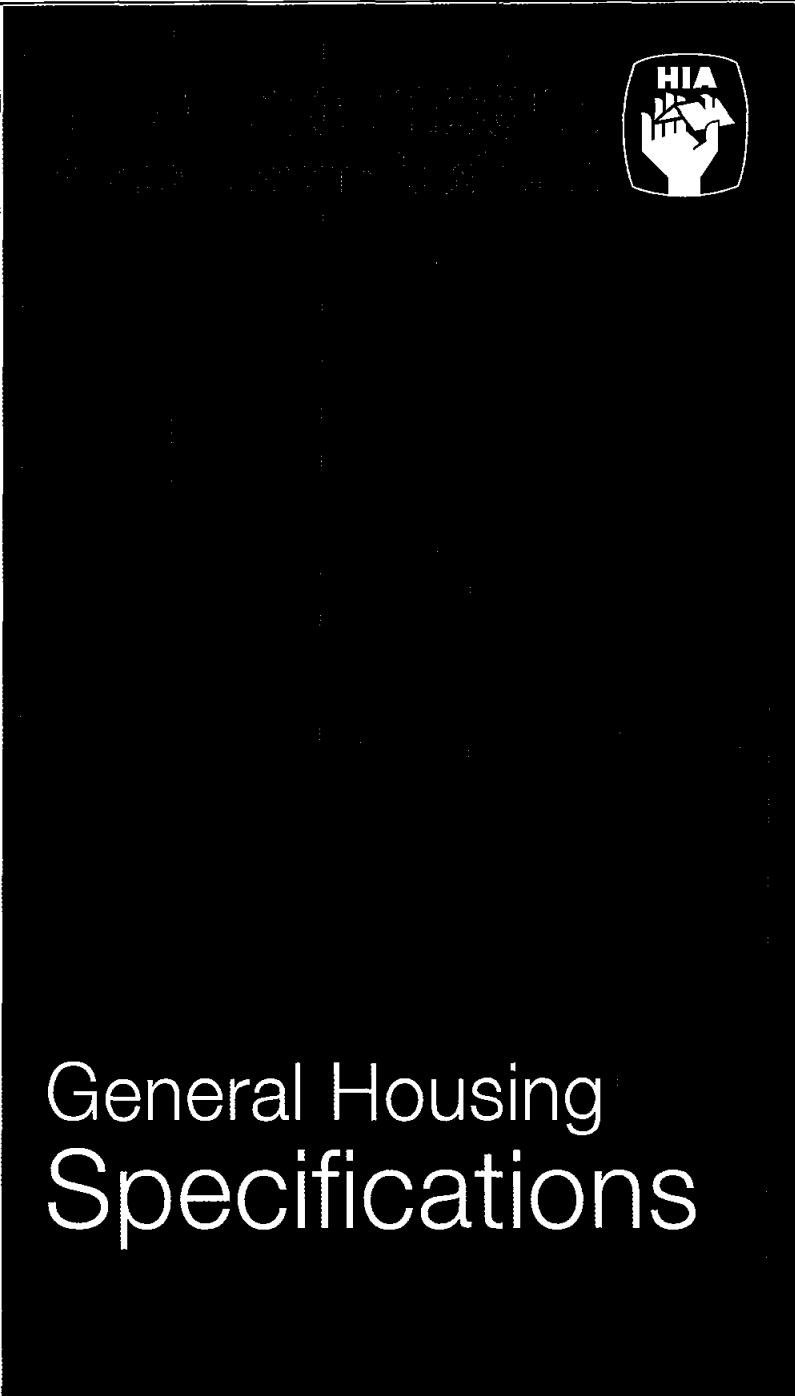
ZANUTTINI
Pty/Ltd
TELEPHONE (02) 9554 9311
FASCILMILE (02) 9554 9764
DX 11392 HURSTVILLE NSW



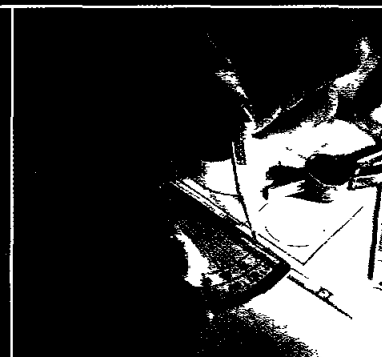




STRUCTURAL STEEL DETAIL PLAN			
CLIENT		CALLAGHAN	
LOCATION		LOT 22, NO 28 HEATH STREET MONA VALE	
DRAWN BY	AR	SCALE	1 100
SHEET NO	4		
ISSUE	A	DATE	12/5/08
JOB NO	29563CL		



General Housing Specifications



ADDRESS OF PROPERTY LOT 22, 28 HEATH AVENUE
MONA VALE

GENERAL HOUSING SPECIFICATIONS BETWEEN

OWNER WAYNE & DEBORAH CALLAGHAN

AND

CONTRACTOR CLARENDON

CONTRACTOR LICENCE NO 22982

INDEX
GENERAL HOUSING SPECIFICATION
(NSW version revised June 2008)

PART NO	PART HEADINGS	PAGE NO
1 0	Introduction	2
2 0	Statutory Requirements	3
3 0	Owner's Obligations	3
4 0	Plans, Permits and Application Fees	4
5 0	Excavations	4
6 0	Foundations and Footings	4
7 0	Retaining Walls	6
8 0	Effluent Disposal/Drainage	6
9 0	Timber Framing	6
10 0	Steel Framing	8
11 0	Roofing	8
12 0	Masonry	9
13 0	Cladding and Linings	10
14 0	Joinery	10
15 0	Services	11
16 0	Tiling	12
17 0	Painting	13
18 0	Signatures	13

1 0 INTRODUCTION

1 1 General

This Specification details the works to be executed and the materials to be used in carrying out those works at the site

This Specification shall 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 relevant manufacturer's recommendations or Engineer's Recommendations, and the Building Code of Australia (BCA).

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, the plans will take precedence. The Contractor must at all times maintain a legible copy of the plans and this Specification bearing the approval of the relevant Local Authority.

1 4 Size and Dimensions

All sizes and dimensions given in this Specification are in millimetres unless otherwise stated and are nominal only.

1 5 Prime Cost and Provisional Sum Items

Prime cost items and provisional sum items are listed in the Schedule of Works.

1 6 Definitions

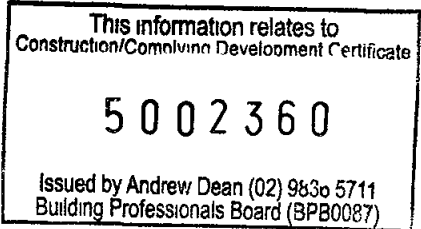
In this Specification

"Engineer's Recommendations" includes any soil classification report, preliminary footing report, construction footing report and any other report, recommendation, site or other instruction, calculations or plans prepared by an engineer in respect of the works.

Where the words "Local Authority" are mentioned they 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 BCA, as amended) statutorily enforceable at the time application is made for a construction certificate or other permits, consents or approvals relating to the contract.

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



21 The Building Works

a the regulations and in particular the Performance Requirements of the BCA Housing Provisions Volume
2,
b any conditions imposed by the relevant development consent or complying development certificate,
c commitments outlined in the relevant BASIX Certificate,

in so far as the Builder is required in accordance with the Schedule of Works addended to this Specification

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

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 and is to pay fees and costs incurred therein. The cost of providing and installing any additional poles, wiring, service risers or underground wiring etc., as may be required by the electricity supply authority, shall be borne by the Owner.

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 subcontractors. Where the Local Authority requires the temporary toilet to be connected to sewer mains, the additional cost of this work shall be borne by the Owner. On completion the Builder shall remove the convenience.

3.1 Engineer's Recommendations

If the contract so indicates, the Owner shall, at the Owner's expense, provide the Builder with reports and recommendations (including soil classification) as to the foundations or footings requirements for the building works prepared by an engineer

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

The Owner shall not engage or employ any tradesperson, trade-contractor or any other person to work on the site without the consent of the Builder whose consent may be subject to such terms and conditions as the Builder may stipulate

For all items referred to in this Specification to be supplied by the Owner, it is the responsibility of the Owner to arrange payment for delivery of and protection against damage and theft of all these items

3 5 Water Supply

Where there is no existing building on the site, the Owner shall, at the Owner's expense, supply adequate water to the site for construction purposes. Unless otherwise specified, the Builder shall pay the standard water meter connection fee to the water supply authority provided this service is pre-laid to the site ready for use. The Owner shall be responsible for any fee to be paid in excess of the standard water meter connection fee.

3 6 Sanitation

Unless otherwise specified

- (a) the Owner shall, at the Owner's expense, supply sewerage connection riser or common effluent drainage connection riser on the site,
- (b) the Builder shall pay the standard sewer connection fee to the sewerage supply authority provided this service is pre-laid to the site and ready for use, and
- (c) the Owner shall be responsible for any fee to be paid in excess of the standard sewer connection fee

4 0 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 mines 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 0 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 Recommendations and BCA Volume 2, Housing Provisions, Part 3.2.2.

6 0 FOUNDATIONS AND FOOTINGS

6 1 Underfloor Fill

Underfloor fill shall be in accordance with BCA Volume 2, Housing Provisions, Part 3.2.2 or Performance Requirements P2.1, P2.2.3 and Clause 1.0.10.

Termite treatment shall be carried out in accordance with BCA Volume 2, Housing Provisions, Part 3 1 3 or Performance Requirement P2 1 and Clause 1 0 10

6 3 Vapour Barrier

The underfloor vapour barrier shall be 0 2 mm nominal thickness, high impact resistance polyethylene film installed in accordance with BCA Volume 2, Housing Provisions Part 3 2 2 or Performance Requirements P2 1, P2 2 3 and Clause 1 0 10

6 4 Reinforcement

Reinforcement shall conform and be placed in accordance with the Engineer's Recommendations and BCA Volume 2, Housing Provisions, Part 3 2 3 or Performance Requirements P2 1 and Clause 1 0 10

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

6 5 Concrete

Structural concrete shall not be less than Grade N20 except where otherwise approved by the engineer and in accordance with BCA Volume 2, Housing Provisions, Part 3 2 3 or Performance Requirements P2 1 and Clause 1 0 10

Pre-mixed concrete shall be manufactured in accordance with AS 1379 with delivery dockets kept on site and available for inspection by the engineer

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

6 6 Curing

All concrete slabs shall be cured in accordance with AS 3600

6 7 Footings and Slabs on Ground

Concrete slabs and footings shall not be poured until approval to pour concrete is given by the engineer or the Local Authority

NOTE Bench levels and floor levels on the site works plan shall be regarded as nominal, unless specified otherwise

6 8 Suspended Slabs

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

6 9 Foundation Walls

On footings as previously specified build brick walls to the thickness shown on plan to level underside of floor bearers or plates

6 10 Sub- Floor Ventilation

Provide adequate cross ventilation to the space under suspended ground floor. No section of the under floor area wall to be constructed in such a manner that will hold pockets of still air and to meet with the requirements of BCA, Volume 2, Housing Provisions, Part 3 4 1 or Performance Requirement P2 2 3 and Clause 1 0 10

6 11 Sub-Floor Access

Provide access under suspended floors in position where indicated on plan

7 0 RETAINING WALLS

7 1 Retaining Walls

Where the Builder is required by the Schedule of Works addended 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 the retaining wall shall be the responsibility of the Owner

8 0 EFFLUENT DISPOSAL/DRAINAGE

8 1 Effluent Disposal/Drainage

In both sewered and unsewered areas, fit bath, wash basin, kitchen, wash tubs, pedestal pan and floor grate to shower recess in positions shown on plan (refer to Schedule of Works). Provide waste pipes with traps to the above fittings and connect to the drainage system. The whole of the work to be performed in accordance with the rules and requirements of the sewerage authority concerned

8 2 Septic System

Provide and install a septic system where applicable to the requirements of the Local Authority and in accordance with the manufacturer's recommendations

8 3 Storm Water Drainage

Stormwater drainage shall be carried out in accordance with BCA, Volume 2, Housing Provisions, Part 3 1 2 or Performance Requirement P2 2 1 and Clause 1 0 10

Allow for the supplying and laying of stormwater drains where shown on the site plan

9 0 TIMBER FRAMING

9 1 Generally

All timber framework sizes, spans, spacing, notching, checking and fixing to all floor, wall and roof structures shall comply with BCA, Volume 2, Housing Provisions, Part 3 4 3 or Performance Requirement P2 1 and Clause 1 0 10 or AS 1684. Alternative structural framing shall be to structural engineer's details and certification

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 2 Floor Framing

All floors not specified to be concrete are to be framed at the level shown. Span and spacing of bearers is to conform to the requirements of the span tables for the appropriate member size. Deep joists to upper floors, where shown, are to be fitted with solid blocking or herringbone strutting as required. All sizes and stress grades of timber members and tie down methods are to be in accordance with AS 1684.

9 3 Wall Framing

Plates may be trenched to provide uniform thickness where studs occur. Where plates are machine gauged to a uniform thickness, trenching may be omitted. Wall framing is to be erected plumb and straight and securely fastened to floor framing. Provide a clear space of 40mm between outer face of wall frame and inner face of brick veneer walls. Tie brickwork to studs with approved veneer ties. Ties are to slope downwards towards the veneer wall.

Studs in each panel of walling shall be stiffened by means of solid noggings or bridging pieces at not more than 1350 mm centres over the height of the wall. Bottom plates shall be fixed to the floor structure in accordance with AS 1684.

9 4 Heads Over Opening (Lintels)

All sizes, stress grade and bearing area shall conform to AS 1684. Heads exceeding 175 mm in depth shall be seasoned or a low shrinkage timber species used. Plywood web lintels conforming to the requirements of the Plywood Association of Australia may be used. Glue laminated beams conforming to AS 1328 or, laminated veneer lumber beams to manufacturer's specification and data sheets may be used.

9 5 Roof Trusses

Where roof truss construction is used, trusses shall be designed in accordance with AS 1720 and fabricated in a properly equipped factory and erected, fixed and braced in accordance with the fabricator's written instructions.

9 6 Bracing

Bracing units shall be determined and installed in accordance with AS 1684 as appropriate for the design wind velocity for the site. Bracing shall be evenly distributed throughout the building.

9 7 Flooring

Cover floor joists with strip or sheet flooring as shown on plan with particular regard to ground clearance and installation in wet areas as required by the BCA. Thickness of flooring to be appropriate for the floor joist spacing.

Strip and sheet flooring shall be installed in accordance with AS 1684.

When listed in Schedule of Works, floors shall be sanded to provide an even surface and shall be left clean throughout.

9 8 Roof Framing

Roofs are to be pitched to the slope shown on plan. Provide tie-down as required for the appropriate design wind speed and roof covering. Provide all rafters, ridges, hips, valleys, purlins, struts, collar ties and wind bracing as appropriate with all sizes and stress grades in accordance with AS 1684.

Metal fascias shall be installed in accordance with the manufacturer's recommendations and shall meet the requirements of AS 1684.

9 9 Timber Posts

Posts supporting carports, verandas and porches shall be timber suitable for external use, or as otherwise specified, supported on galvanised or treated metal post shoes unless otherwise specified. Post shall be bolted to all adjoining beams as required by AS 1684 for the wind speed classification assessed for the site.

9 10 Corrosion Protection

All metal brackets, facing plates and other associated fixings used in structural timber joints and bracing must have appropriate corrosion protection.

9 11 Hot Water Storage Tank Platforms

Where a hot water storage tank is to be installed in the roof space, the tank platform shall be supported directly off the wall plates and must not be supported on ceiling joists. Where installed in the roof space the storage tank shall be fitted with an appropriate spill tray and overflow drain pipe.

Where a hot water storage tank is supported by the roof structure the structure shall be specifically designed to support all imposed loads.

10 0 STEEL FRAMING

10 1 Generally

Steel floor, wall or roof framing shall be installed in accordance with the manufacturer's recommendations and BCA, Volume 2, Housing Provisions, Part 3 4 2 or Performance Requirement P2 1 and Clause 1 0 10.

11 0 ROOFING

All roof cladding to comply with the relevant structural performance and weathering requirements of BCA, Volume 2, Housing Provisions, Part 3 5 1 or Performance Requirements P2 1, P2 2 2 and Clause 1 0 10 and be installed as per the manufacturer's recommendations.

11 1 Tiled Roofing

Cover the roof of the dwelling with approved tiles as selected. The tiles are to be fixed as required for the appropriate design wind speed to battens of sizes appropriate to the spacing of rafters/trusses in accordance with manufacturer's recommendations. Cover hips and ridges with capping and all necessary accessories including starters and apex caps. Capping and verge tiles are to be well bedded and neatly pointed. Roofing adjacent to valleys should be fixed so as to minimise water penetration as far as practicable. As roof tiles are made of natural products slight variation in colour is acceptable.

11 2 Metal Roofing

Provide and install a metal roof together with accessories all in accordance with the manufacturer's recommendations.

Except where design prohibits, sheet shall be in single lengths from fascia to ridge. Fixings of sheet shall be strictly in accordance with the manufacturer's recommendations as required for the appropriate design wind speed. Incompatible materials shall not be used for flashings, fasteners or downpipes.

11 3 Gutters and Downpipes

Gutters and downpipes shall be manufactured and installed in accordance with BCA, Volume 2, Housing Provisions, Part 3 5 2 or Performance Requirement P2 2 1 and Clause 1 0 10. Gutters and downpipes are to be compatible with other materials used.

11 4 Sarking

Sarking under roof coverings must comply and be fixed in accordance with AS/NZS 4200 1 for materials and AS/NZS 4200 2 for installation

11 5 Sealants

Appropriate sealants shall be used where necessary and in accordance with manufacturer's recommendations

11 6 Flashing

Flashings shall comply with, and be installed in accordance with BCA, Volume 2, Housing Provisions, Part 3 3 4 or Performance Requirement P2 2 2 and Clause 1 0 10

12 0 MASONRY

12 1 Bricks

All clay bricks and brickwork shall comply with AS 3700 and BCA, Volume 2, Housing Provisions Part 3 3 or Performance Requirement P2 1 and Clause 1 0 10 Clay bricks are a natural kiln fired product and as such their individual size may vary

Tolerances shall only be applied to the total measurements over 20 units, not to the individual units

12 2 Concrete Blocks

Concrete blocks are to be machine pressed of even shape, well cured and shall comply with AS 3700 Concrete blockwork shall be constructed in accordance with BCA, Volume 2, Housing Provisions, Part 3 3 or Performance Requirement P2 1 and Clause 1 0 10

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 BCA, Volume 2, Housing Provisions, Part 3 3 4 or Performance Requirement P2 2 2 and Clause 1 0 10 The damp proof membrane shall be visible in the external face of the masonry member in which it is placed and shall not be bridged by any applied coatings, render or the like

12 4 Cavity Ventilation (Weep Holes)

Open perpendicular joints (weepholes) must be created in the course immediately above any DPC or flashing at centres not exceeding 1 2m and be in accordance with BCA, Volume 2, Housing Provisions, Part 3 3 4 or Performance Requirement P2 2 2 and Clause 1 0 10

12 5 Mortar and Joining

Mortar shall comply with BCA, Volume 2, Housing Provisions, Part 3 3 1 or Performance Requirement 2 1 and Clause 1 0 10 Joint tolerances shall be in accordance with AS 3700

12 6 Masonry Accessories

Masonry accessories shall comply with BCA, Volume 2, Housing Provisions, Part 3 3 3 or Performance Requirement P2 1 and Clause 1 0 10 and accepted building practices. Wall ties to meet corrosion resistant rating appropriate for the exposure conditions of the site. Provide appropriate ties to articulated joints in masonry.

12 7 Lintels

Lintels used to support brickwork opening in walls must be suitable for the purpose as required by BCA, Volume 2, Housing Provisions, Part 3 3 3 or Performance Requirement P2 1 and Clause 1 0 10. Provide one lintel to each wall leaf. Provide corrosion protection in accordance with BCA Part 3 4 4 as appropriate for the site environment and location of the lintels in the structure.

12 8 Cleaning

Clean all exposed brickwork with an approved cleaning system. Care should be taken not to damage brickwork or joints and other fittings.

13 0 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 in open verandas, porches and eaves soffits, material indicated on the plans shall be installed.

13 2 Internal Wall and Ceilings Linings

Provide gypsum plasterboards or other selected materials to walls and ceilings. Plasterboard sheets to have recessed edges and be a minimum of 10mm thick. Internal angles in walls from floor to ceiling to be set. Suitable cornice moulds shall be fixed at the junction of all walls and ceilings or the joint set as required. The lining of wet area walls shall be constructed in accordance with BCA, Volume 2, Housing Provisions, Part 3 8 1 or Performance Requirement P2 4 1 and Clause 1 0 10. Wet area lining is 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 and balconies over internal habitable rooms to be waterproofed in accordance with BCA, Volume 2, Housing Provisions, Part 3 8 1 or Performance Requirement P2 4 1 and Clause 1 0 10.

14 0 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 a minimum of 32 mm thick solid rebated 12 mm deep to receive doors Internal jamb linings shall be a minimum of 18 mm thick fit with 12 mm thick door stops Metal door frames shall be installed where indicated on drawings in accordance with the manufacturer's recommendations

14 3 Doors and Doorsets

All internal and external timber door and door sets shall be installed in accordance with accepted building practices Unless listed otherwise in the Schedule of Works doors and door sets shall be manufactured in accordance with AS 2688 and AS 2689

14 4 Window and Sliding Doors

Sliding and other timber windows and doors shall be manufactured and installed in accordance with AS2047

Sliding and other aluminium windows and doors shall be installed in accordance with manufacturer's recommendations and AS2047

All glazing shall comply with BCA, Volume 2, Housing Provisions Part 3 6 or Performance Requirements P2 1, P2 2 2 and Clause 1 0 10 and any commitments outlined in the relevant BASIX Certificate

14 5 Architraves and Skirting

Provide architraves and skirting as nominated on the plans or listed in the Schedule of Works

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

Provide stairs or ramps to any change in levels, and balustrades or barriers to at least one side of ramps, landings and balconies as per BCA, Volume 2, Housing Provisions, Part 3 9 1 or Performance Requirement P2 5 1 and Clause 1 0 10 for stair construction and Part 3 9 2 or Performance Requirements P2 1, P2 5 2 and Clause 1 0 10 for balustrades

15 0 SERVICES

15 1 Plumbing

All plumbing shall comply with the requirements of the relevant supply authority and AS 3500 The work is to be carried out by a licensed plumber
Fittings as listed in the Schedule of Works shall be supplied and installed to manufacturer's recommendations
Fittings, hot water system and any rainwater harvesting facilities shall be appropriate to satisfy any commitment outlined in the relevant BASIX Certificate

15 2 Electrical

Provide all labour and materials necessary for the proper installation of electricity service by a licensed electrician in accordance with AS/NZS 3000 and the requirements of the relevant supply authority 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

Provide and install smoke alarms manufactured in accordance with AS 3786 as specified or as indicated on the plans and in accordance with BCA, Volume 2, Housing Provisions, Part 3 7 2 or Performance Requirement P2 3 2 and Clause 1 0 10

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 BCA Part 3 12 1 to meet Performance Requirement NSW P2 6 1 (a) or as outlined in the relevant BASIX Certificate

16 0 TILING

16 1 Materials

Cement mortar and other adhesives shall comply with AS 3958 1 or tile manufacturer's recommendations

16 2 Installation

Installation of tiles shall be in accordance with AS 3958 1, manufacturer's recommendations or accepted building practices

Where practicable, spacing between tiles should be even and regular. Provide expansion joints where necessary. All vertical and horizontal joints between walls and fixtures e.g. bench top, bath, etc. and wall/floor junctions to 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.

16 3 Walls

Cover wall surfaces where indicated on the drawings with selected tiles. Tiles are to be fixed to the wall substrate with adhesives compatible with the substrate material. Provide all required strips, vent tiles and recess fittings.

16 4 Floors

Lay selected floor tiles in sand and cement mortar, or adhesive compatible with the substrate material, to areas indicated on the drawings. Where required, fit approved edge strips or metal angle to exposed edges in doorways or hobless showers in wet areas in accordance with BCA, Volume 2, Housing Provisions, Part 3 8 1 or Performance Requirement P2 4 1 and Clause 1 0 10. Provide adequate and even fall to wastes where required.

17 0 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 recommendations 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 recommendations

18 0 SIGNATURES

This is the Specification referred to in the contract No Date

Signed by the said
Owner in the
presence of

Witness

Owner's Signature

/ /
Date

Witness

Owner's Signature

/ /
Date

Signed by the said
Builder in the
presence of

Witness

Builder's Signature

/ /
Date