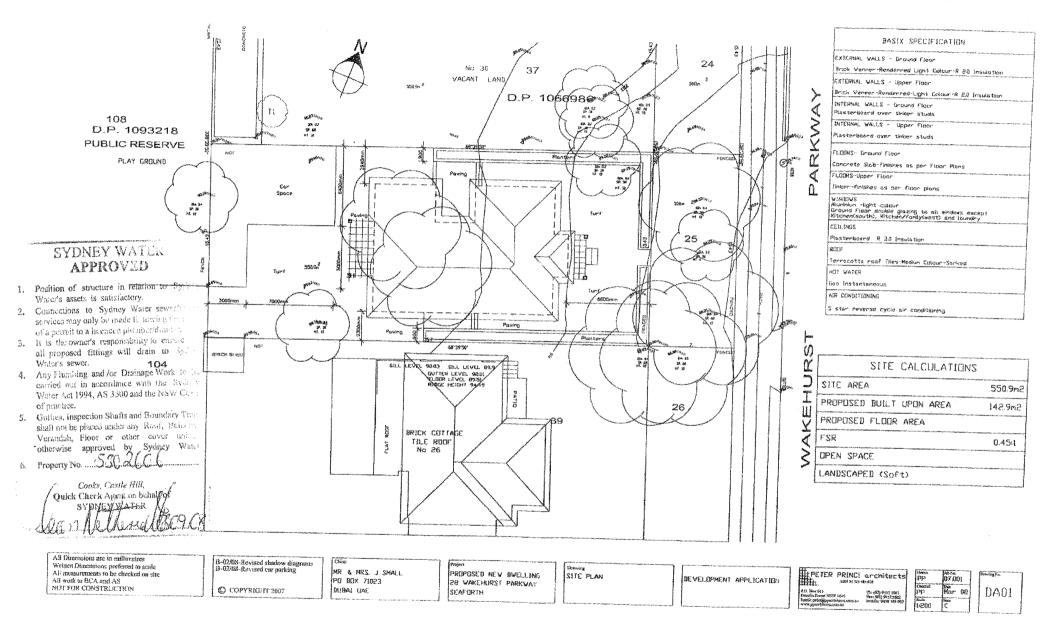
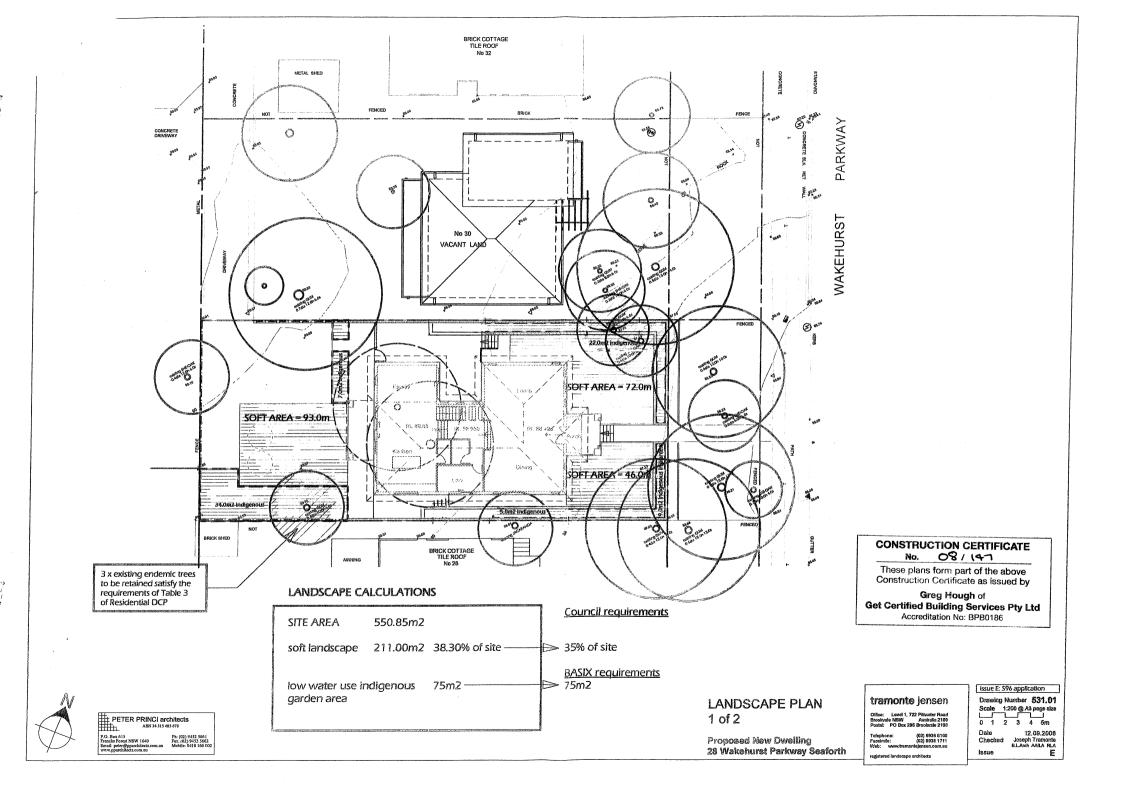
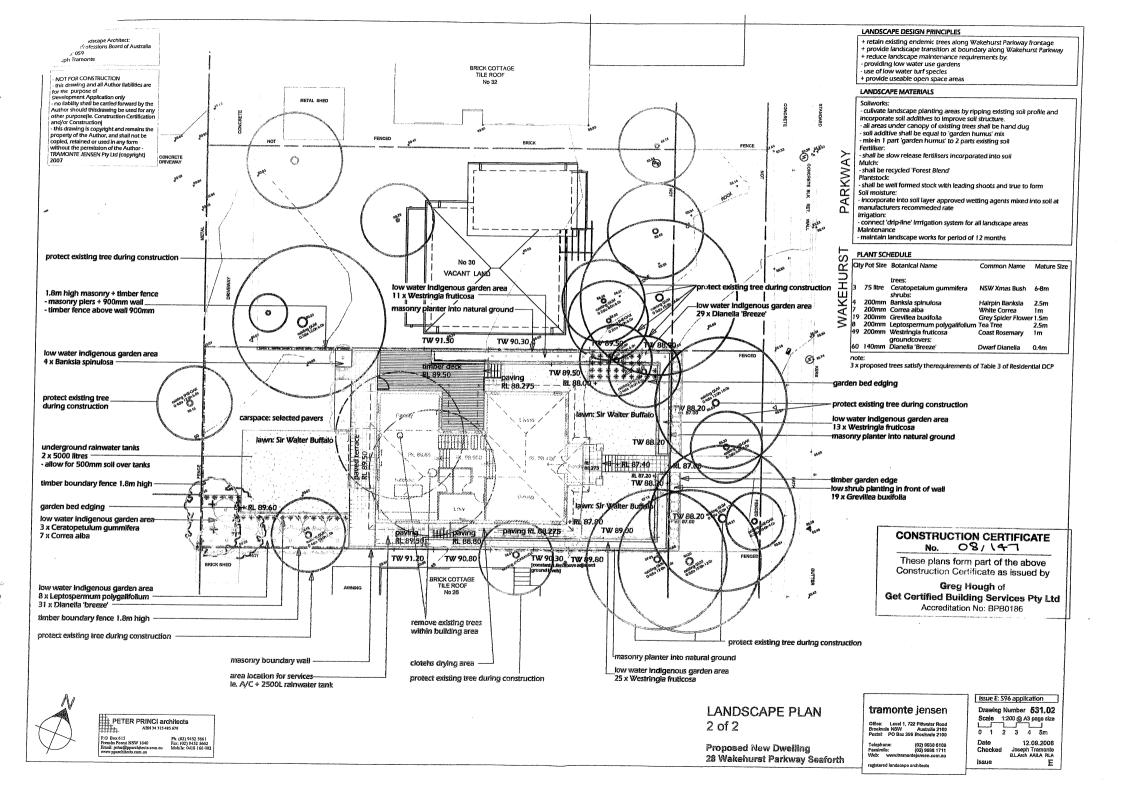
ORIGINAL







Colour Sample Board - 28 Wakehurst Parkway Seaforth

Granite Roof Tiles (or similar)



Rendered Walls

Portland Stone

Dulux Weathershield

Windows

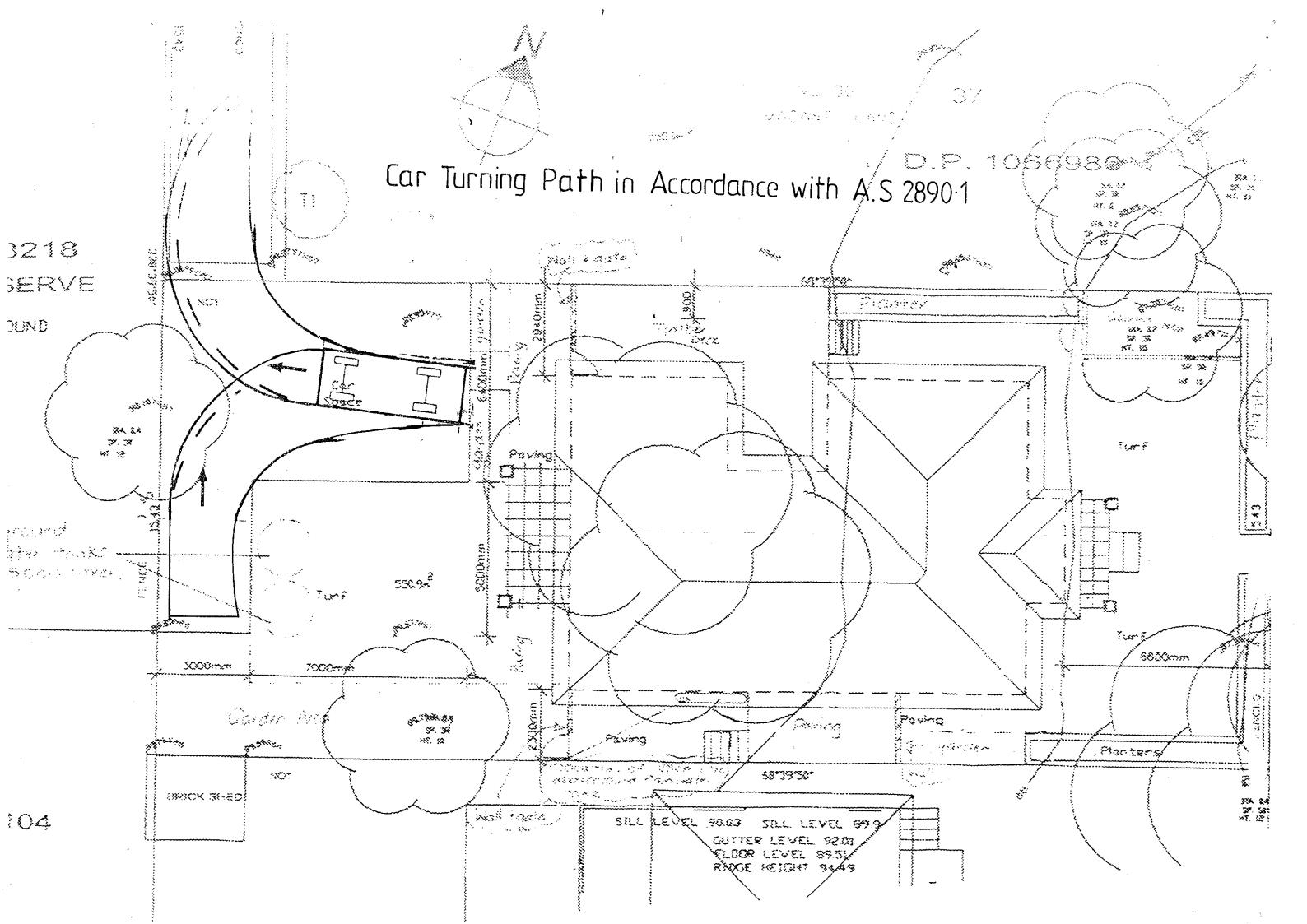
White or similar

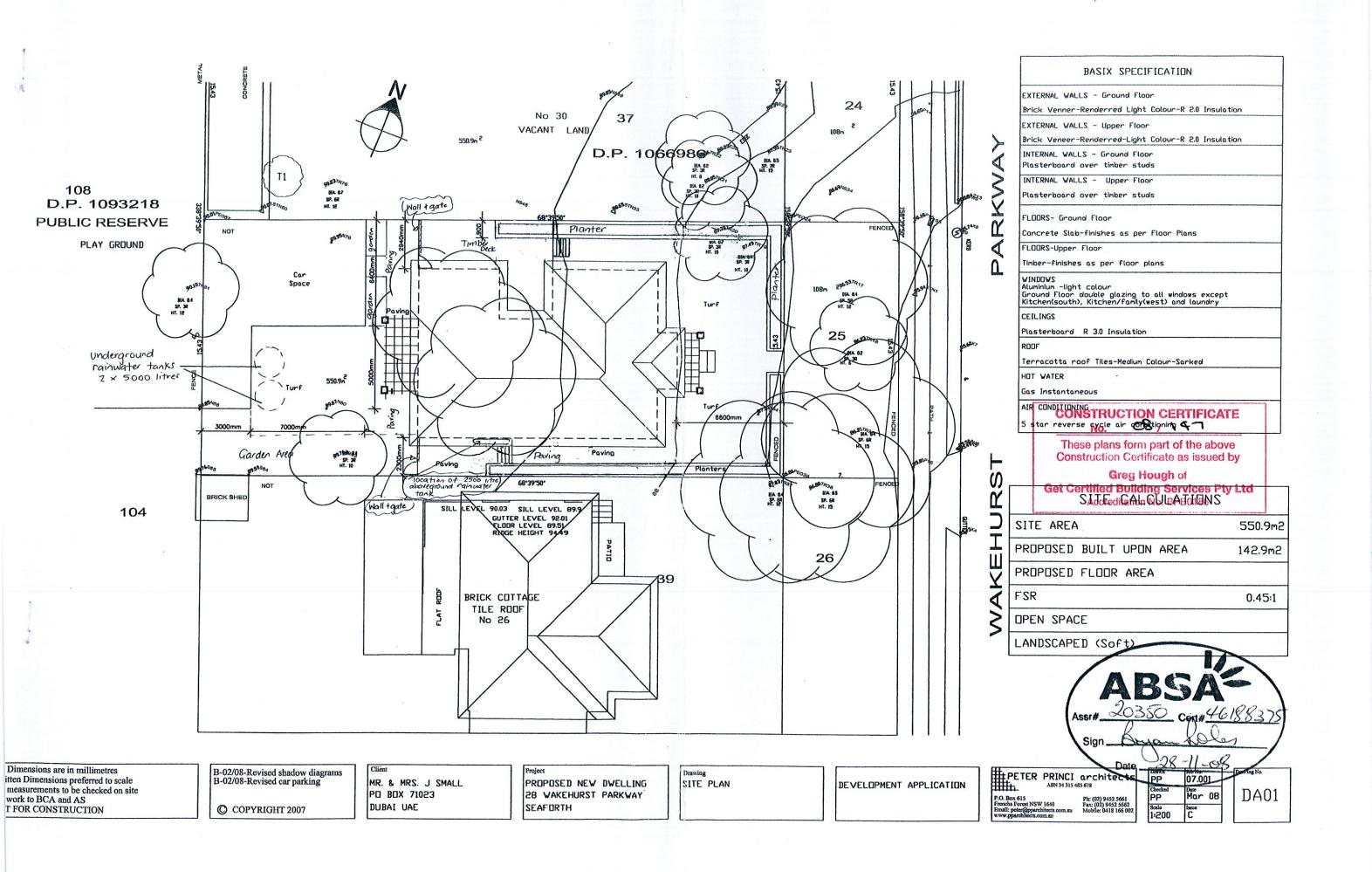
Dulux Weathershield

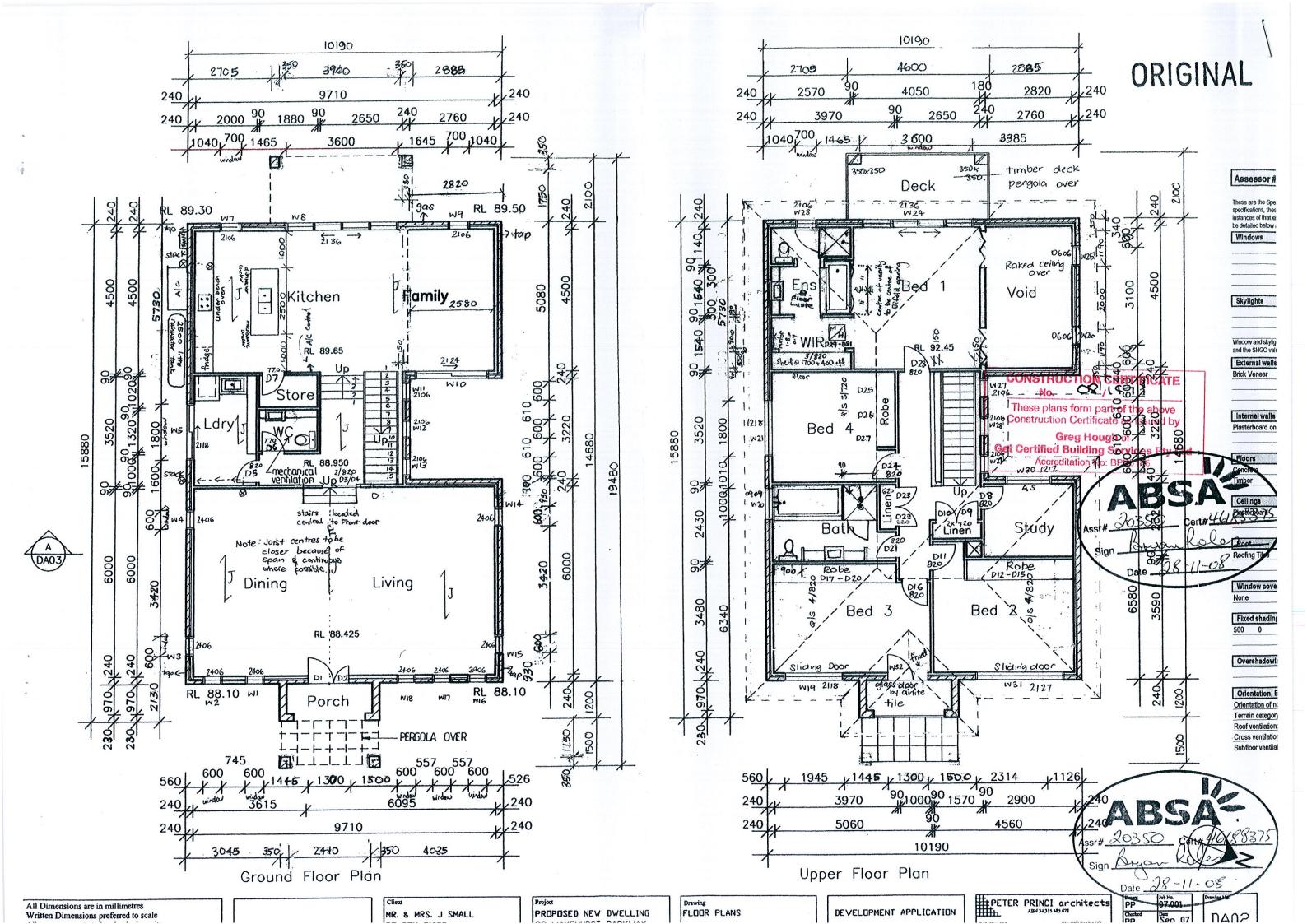


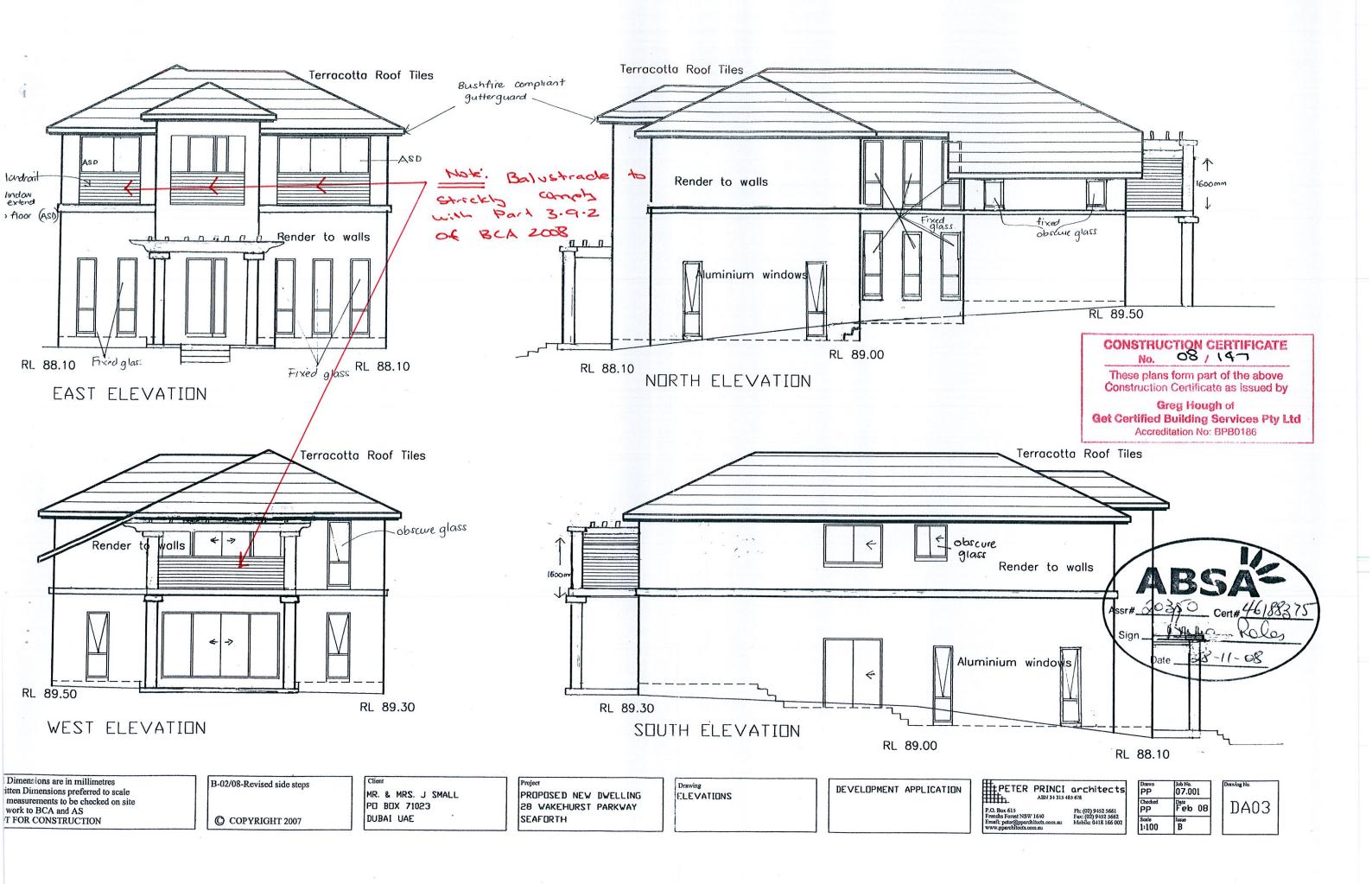


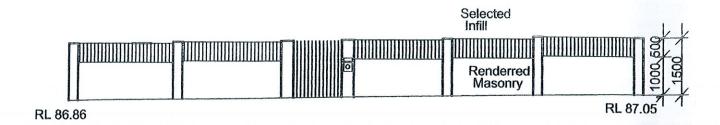
** Colour reproduction can vary when viewing colours on your screen or printout. Remember only Dulux Bases are formulated for tinting to the exact Dulux colour you select. For complete satisfaction test your colour selection in your home using Dulux Sample Pots.



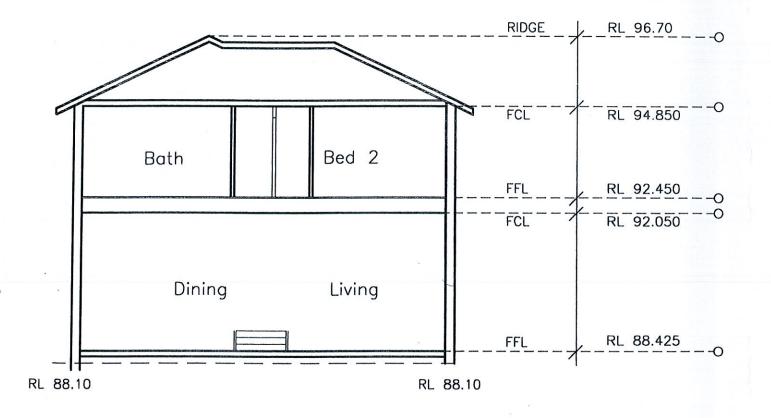








FRONT FENCE



CONSTRUCTION CERTIFICATE No. 08/(47

These plans form part of the above Construction Certificate as issued by

Greg Hough of
Get Certified Building Services Pty Ltd
Accreditation No: BPB0186



Dimensions are in millimetres itten Dimensions preferred to scale measurements to be checked on site work to BCA and AS T FOR CONSTRUCTION

© COPYRIGHT 2007

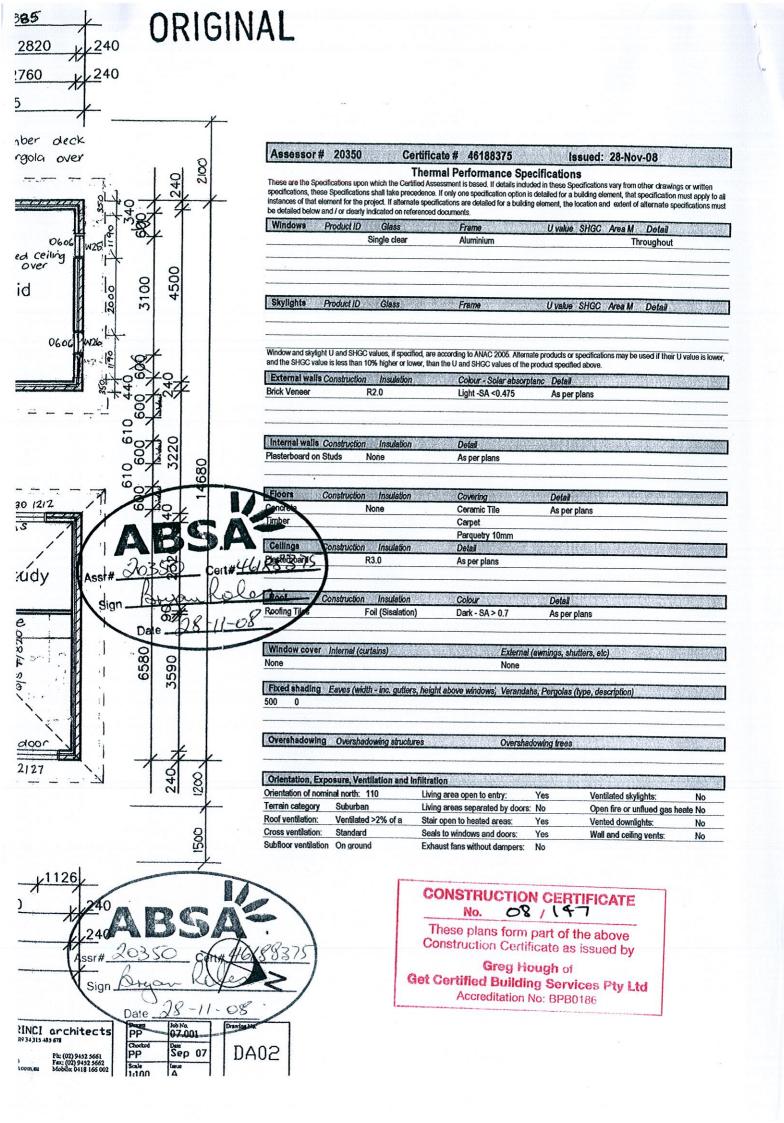
MR. & MRS. J SMALL PO BOX 71023 DUBAI UAE PROPOSED NEW DWELLING 28 WAKEHURST PARKWAY SEAFORTH Drawing ELEVATIONS

DEVELOPMENT APPLICATION

PETER PRINCI architects
ABN 34 315 485 678

ox 615 Ph: (02) 9452.56 Fax: (02) 9452.5 poten@parchitects.com.au parchitects.com.au

DA04



GENERAL NOTES

- G1 These drawings shall be read in conjunction with other consultants' drawings and specifications and with other such written instructions as may be issued during the course of the Contract. Any discrepancy shall be referred to the Engineer before proceeding with the work.
- G2 All dimensions are in millimetres, UNO (unless noted otherwise).
- G3 No dimension shall be obtained by scaling the drawings.
- G4 All levels and setting out dimensions shown on the drawings shall be checked on site prior to the commencement of the work.
- G5 During construction the structure shall be maintained in a stable condition and no part shall be overstressed.
- G6 Waterproofing & sealing details shall be in accordance with Architect's details. All joints in concrete elements shall be suitably sealed or waterproofed.

- F1 Assumed classification of site: M (Moderately Reactive Site) UNO.
- F2 Footings have been designed for an allowable bearing pressure of 150 kPa UNO. All foundations must be stable and uniform throughout.
- F3 Foundation material shall be inspected and approved for the above site classification and allowable bearing pressure by a Geotechnical Engineer before placing footing reinforcement.
- F4 Footings shall be placed centrally under walls and columns, UNO.

LOADING

- L1 Superimposed floor loads are generally in accordance with AS 1170.1 or as noted
- L2 Wind loads are in accordance with AS/NZS 1170.2 as follows: Region: A 2 Regional Wind Velocity, V500: 45 m/s Category: 3, UNO.
- L3 Earthquake loads are in accordance with AS 1170.4 as follows:
 - a = 0.08 S = 1.0 I = 1.0, UNO.
- L4 Live loads & additional dead loads: (to AS/NZS 1170.1)

Area subject to	Live Load		Add. Dead	
loading	Uniform	Point	Load	
Floors - Internal	1.50 kPa	1.80 kN	0.50 kPa	
Floors - External & Garage	3.00 kPa	1.80 kN	1.00 kPa	
Roof Areas	0.25 kPa	1.40 kN	0.15 kPa	

MASONRY

- M1 All workmanship and materials shall be in accordance with AS 3700.
- M2 Characteristic compressive strength of masonry (f'uc) = 24 MPa

Mortar	Salt Attack Resistance Grade	Built In Component	Min. Cover to Reinforcement & Tendons in Grouted Cavities
M2	Protected	R1 (Galv'd 300 g/m² each side)	5
M3	General Purpose	R3 (Galv'd 470 g/m² each side)	15
M4	Exposure	R4 (Stainless)	30

- M3 All masonry walls supporting slabs and beams shall have a pre-greased two layer galvanised steel slip joint between concrete and masonry.
- M4 All masonry walls supporting or supported by concrete floors shall be provided with vertical joints to match any control joints in the concrete.
- M5 Non load bearing walls shall be separated from concrete above by 12 mm thick closed cell polyethylene strip.
- M6 Provide vertical control joints at 8 metres maximum centres, and 4 metres maximum from corners in masonry walls, and between new & existing brickwork. M7 Masonry retaining walls are to be backfilled with either of the following material:
- Coarse grained soil with low silt content
 - Residual soil containing stones
 - Fine silty sand
 - Granular materials with low clay content

REINFORCED CONCRETE

- C1 All workmanship and materials shall be in accordance with AS 3600 current edition, except where varied by the contract documents.
- C2 Concrete quality shall be as follows (subject to note C4 being satisfied):

Element	. Slump mm	Max. Agg. Size mm	Cement Type	f'c at 28 Days MPa
Footings	80	20	Normal	20
Slabs on Ground	80	20	Portland	25
Suspended Floors	80	20	Type A	32

- C3 Engineer to approve any admixtures used in concrete mix.
- C4 Cover to reinforcement shall be obtained by the use of approved bar chairs.

All chairs to be placed at 750 maximum centres.

ISSUED FOR APPROVAL

AMENDMENT DESCRIPTION

A

C5 Minimum clear concrete cover to reinforcement including ties and stirrups lother than residential slabs on ground or footings) shall be as follows uno.

Exposure Classification		Mini	imum Cover (m	m)	
	Concrete Strength (f'c)				
	20 MPa	25 MPa	32 MPa	40 MPa	>50 MPa
A1	20	20	20	20	20
A2	(50)	30	25	20	20
B1	-	(60)	40	30	25
B2	-	-	(65)	45	35
C	-	-	-	(70)	50

For bracketed figures refer to AS 3600 current edition table 4.10.3.2

- C6 Residential slab on ground and footings cover requirements: (Minimum concrete grade N20)
 - Unprotected ground: 40 mm
 - External exposure: 40 mm
 - Membrane in contact with ground: 30 mm - Internal surface: 20 mm
 - Strip & pad footing: 40 mm
- C7 All concrete shall be mechanically vibrated. Vibrators shall not be used to spread
- C8 Sizes of concrete elements do not include thickness of applied finishes.
- (9) No holes or chases other than those shown on the structural drawings shall be made in concrete members without the prior approval of the Engineer.
- C10 Construction joints where not shown shall be located to the approval of the
- C11 Curing of all concrete is to be achieved by keeping surfaces continuously wet for a period of 3 days, and prevention of loss of moisture for a total of 7 days followed by gradual drying out. Approved sprayed on compounds may be used where no floor finishes are proposed. Polythene sheeting or wet hessian may be used if protected from wind and traffic.
- C12 Construction support propping is to be left in place where needed to avoid over stressing the structure due to construction loading. No masonry or partition walls are to be constructed on suspended levels until all propping is removed and the slab has absorbed its dead load deflection.
- C13 Conduits, pipes, etc. shall only be placed in the middle one third of slab depth and spread at not less than 3 diameters.
- C14 Reinforcement symbols
 - Denotes deformed grade 500 normal ductility reinforcing bars to AS/NZS 4671.
 - Denotes plain round grade 250 normal ductility reinforcing bars to AS/NZS 4671.
 - Denotes deformed grade 500 low ductility reinforcing mesh to AS/NZS 4671. SL
 - Denotes deformed grade 500 low ductility reinforcing mesh to AS/NZS 4671.
 - L--TM Denotes deformed grade 500 low ductility trench mesh to AS/NZS 4671.
- C15 Reinforcement is represented diagrammatically; it is not necessarily shown in true projection.
- C16 Splices in reinforcement shall be made only in positions shown or otherwise approved by the Engineer.
- C17 Fabric reinforcement shall have splices made so that the overlap, measured between the outermost transverse wires of each sheet of fabric, is not less than the spacing of those wires plus 25 mm.
- C18 Welding of reinforcement shall not be permitted unless shown on the structural drawings or approved by the Engineer.

STRUCTURAL STEEL

- S1 All workmanship and materials shall be in accordance with AS 4100, AS 1163, AS 1554.1 and AS/NZS 4600.
- S2 The structural design has been based on the following steel grades, UNO: Hot rolled universal beams, columns, channels & angles: 300PLUS Circular, square & rectangular hollow sections: C350/C450L0 Cold formed open DuraGal profiles: C400/C450L0 G550/G500/G450 Cold formed lipped Cee & Zed purlins:
- S3 The structural design has been based on MBPMA nominal size (ee & Zed lipped purlins. All purlin profiles shall be in accordance with the MBPMA specifications
- S4 Qualifications of welding procedures and personnel shall conform to Section 4 of AS 1554.1. Non destructive testing of welds shall include 100% visual inspection and additional testing as shown on the drawings.
- S5 All welds shall be 6 mm continuous fillet type SP, UNO. All butt welds shall be complete penetration in accordance with AS 1554.1, UNO.
- S6 Bolt designation:

27.11.08

DATE

to AS 1511

- 4.6/S: Commercial bolts to AS 1111, snug tightened 8.8/S: High strength structural bolts to AS 1562, snug tightened 8.8/TB: High strength structural bolts to AS 1562, fully tensioned bearing joint
- 8.8/TF: High strength structural bolts to AS 1562, fully tensioned friction joint to AS 1511
- All bolts shall be M16 8.8/S, with a minimum of 2 bolts per connection, UNO

Civil & Structural Engineers

PROJECT: & Associates Ptv Ltd

304/12 Century Circui **BAULKHAM HILLS NSW 2153**

Phone: (02) 9894 8500 Fox: (02) 8850 0212

S7 High strength TF & TB bolts shall be installed using approved load indicator washers, or in accordance with the part turn method nominated in AS 4100.

S8 Gusset plates shall be 10 mm thick, grade 300PLUS steel, UNO.

- S9 Concrete encased steelwork shall be wrapped with SL41 fabric and shall have a minimum of 50 mm cover, UNO.
- \$10 Steelwork not encased shall have the following surface treatment

Exposure Classification	Steelwork Protection Required	
A1 / A2	Power tool clean to AS1627 Class 1 1 Coat Alkyd Primer (Zinc Phosphate)	
B1	Abrasive blast to AS1627 Class 2.5 1 Coat Inorganic Zinc Silicate	
B2	Hot Dipped Galvanised to AS1650	DENV. 11.11.11.11.11.11.11.11.11.11.11.11.11

- S11 Where sealed tube members are hot dip galvanised, the fabricator shall
- provide drill holes as necessary. \$12 All transport and erection damage, site welds etc., shall be reinstated to an equivalent finish to adjacent steelwork

SITE PREPARATION FOR SLABS ON GROUND

- P1 Strip topsoil containing organic matter. Proof roll fill sub grade and remove any soft zones.
- P2 Where additional fill is required to the underside of slabs on ground, non cohesive materials such as sand and gravel dust shall be placed by "controlled" compaction in horizontal layers of 200 mm (loose) maximum depth. This fill shall be compacted to at least 95% of Standard Maximum Dry Density (SMDD).
- P3 For slabs on ground, sand 50 mm approximate thickness is to be spread as a levelling layer and well watered down.
- P4 Waterproof membrane unpunctured and taped at laps, is to be placed over the sand, sufficient membrane being provided at edges to return under brickwork. Where no brickwork, tape membrane to side of footing below ground.

FOUNDATION MAINTENANCE

FOUNDATION SOILS: All soils are affected by water. Silts are weakened by water and some sands can settle if heavily watered, but most problems arise on clay foundations. Clays swell and shrink due to changes in moisture content and the potential amount of the movement is implied in the site and the site of the site of the movement is implied in the site of the

- Standard AS2870, which is specified as follows: A Stable (Non-reactive).
 - S Slightly Reactive.
 - M Moderately Reactive.

require attention to the following:

- Highly Reactive.
- E Extremely Reactive

Greg Hough of CLASS A & S SITES : Sands, silts and clays shall be projected will be Building Services Pty Ltd

741,80

These plans form part of the above

Construction Certificate as issued by

CLASS M, H & E SITES: Sites classified as M, H, or E shall be maintained at essentially stable moisture conditions and extremes of wetting and drying prevented. This will

extremely wet by adequate attention to site drainage and prompt repairt at plumbing BPB0186

Drainage of the site: The site shall be graded or drained so that water cannot pond against or near the house. The ground immediately adjacent to the house shall be graded to a uniform fall of 50 mm minimum away from the house over the first metre. The sub floor space for houses with suspended floors shall be graded or drained to prevent ponding where this may affect the performance of the footing system. The site drainage requirements shall be maintained for the economic life of the building.

Limitations on gardens: The development of the gardens shall not interfere with the drainage requirements or the sub floor ventilation and weep hole drainage systems. Garden beds adjacent to the house should be avoided. Care should be taken to avoid over watering of gardens close to the house footings.

Restrictions on trees and shrubs : Planting of trees should be avoided near the foundation of a house or neighbouring house on reactive sites as they can cause damage due to drying of the clay at substantial distances. To reduce, but not eliminate, the possibility of damage, tree planting should be restricted to a distance

- 1.50 x mature height for Class E sites 1.00 x mature height for Class H sites
- 0.75 x mature height for Class M sites

Where rows or groups of trees are involved, the distance from the building should be increased. Removal of trees from the site can also cause similar problems.

Repair of leaks: Leaks in plumbing, including storm water and sewerage drainage should be repaired promptly.

The level to which these measures are implemented depends on the reactivity of the site. The measures apply mainly to masonry houses and masonry veneer houses. For frame houses clad with timber or sheeting, lesser precautions may be appropriate.

PROPOSED NEW RESIDENCE

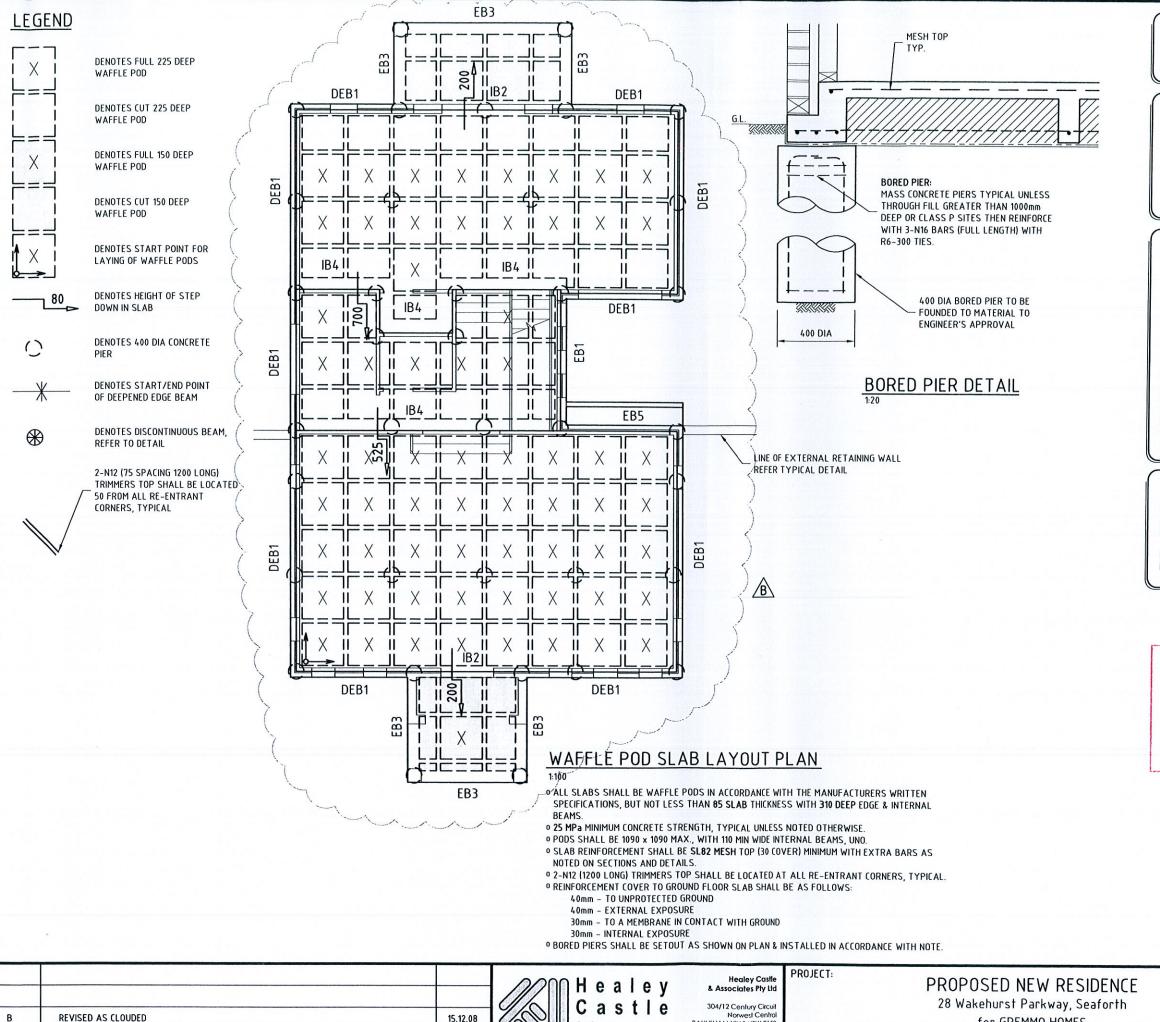
28 Wakehurst Parkway, Seaforth for GREMMO HOMES

GENERAL NOTES

DESIGN: CHK: BDC DRAWN: DMB APPROVED: DATE: NOV 2008 5518 - S01 - A

WAKEHU

SIZE



FOUNDATION NOTE

THE FOOTINGS SHALL BE FOUNDED ON STIFF CLAY MATERIAL WITH A MINIMUM SAFE BEARING CAPACITY OF 150 kPa.

BORED PIER NOTE

BORED PIERS SHALL BE USED IN ACCORDANCE WITH THE FOLLOWING:

- o SET OUT AS PER THE ADJACENT PLAN.
- o FOUNDED OFF VERY STIFF CLAY THAT IS UNIFORM & STABLE THROUGHOUT.
- o FOUNDED A MINIMUM OF 2000 BELOW EXISTING GROUND LEVEL.
- o MINIMUM SAFE END BEARING OF 400 kPa & SKIN FRICTION OF 20 kPa.
- O WHERE ROCK IS ENCOUNTERED, ALL PIERS TO BE FOUNDED OFF ROCK THAT IS UNIFORM & STABLE WITH A MINIMUM SAFE END BEARING OF 600 kPa.

DESIGN CRITERIA

SITE SOIL CLASSIFICATION: ASSUMED CLASS M (REFER NOTE BELOW) SITE WIND CLASSIFICATION: N2

EARTHQUAKE DESIGN CATEGORY: H1

CONSTRUCTION TYPE: ARTICULATED MASONRY VENEER (MASONRY SHALL BE ARTICULATED IN ACCORDANCE WITH TECHNICAL NOTE 61 FROM THE CEMENT AND CONCRETE ASSOCIATION OF AUSTRALIA)

ROOF FRAMING: MANUFACTURED TRUSSES (INTERNAL WALLS NON LOAD BEARING)

NOTE: THE SUPERINTENDENT SHALL HAVE THE SITE SOIL CLASSIFICATION CONFIRMED (BY INSPECTION OF TEST PIER HOLE 1500 MIN DEEP OR TO AUGER REFUSAL, WHICHEVER IS LESS) BY THE ENGINEER PRIOR TO COMMENCING CONSTRUCTION.

WHERE THE CLAY EXTENDS FOR 1500 OR MORE THE SUPERINTENDENT SHALL HAVE THE SITE CLASSIFICATION CONFIRMED BY A SUITABLY QUALIFIED GEOTECHNICAL ENGINEER PRIOR TO COMMENCING CONSTRUCTION.

EXPOSURE CLASSIFICATION

CONCRETE:

INTERIOR SURFACES: A1 EXTERIOR SURFACES : B2

MASONRY

MASONRY DURABILITY REQUIREMENTS : M2

CONSTRUCTION CERTIFICATE

147

These plans form part of the above Construction Certificate as issued by

Greg Hough of

Get Certified Building Services Pty Ltd

Accreditation No: BPB0186

В	REVISED AS CLOUDED	15.12.08	
Α	ISSUED FOR APPROVAL	27.11.08	
REV.	AMENDMENT DESCRIPTION	DATE	



304/12 Century Circuit Norwest Centrol BAULKHAM HILLS NSW 2153 Phone : (02) 9894 8500 Fox : (02) 8850 0212 Emoil : info@hcapl.com.au for GREMMO HOMES

WAFFLE POD SLAB LAYOUT PLAN

	<
DESIGN: BDC	CHK:
APPROVED:	DRAWN: DMB
DATE: NOV 2008	SCALE: 1:100, 1:20
DRG No. 5518 -	S02 - B

