

Testpac Westpac Banking Corporation

Private Bank 2nd Floor 360 Collins Street Melbourne VIC

DATE

3/12/2012

S II	DATE 5/12/2012
DETA	Or Bearer
PAY Long Service Control The SUM OF Two Tho	
ਨੂੰ PAY Long Service C	Corporation
E THE SUM OF Two Tho	Corporation Dusand Six Hundred Twenty-Four dollars and 00 cents************************************
THE SOM OF TWO THE	\$ **2,624.00
	For and on behalf of
RECEIVE	CONSTRAINT TECHNOLOGIES
NLOE: 301	INTERNATIONAL PTY LTD
2 9 JAN 201	ACN 054 631 462
PITTWATER CO	
PIT I WATER OO	
	#301588# 033#364# 29#8208#
man to the control of the second of the seco	
Number and street	t 949 BARRENJOEY ROAD
Town/suburb	
	NSW Postcode 2108
State	
Estimated start da	ate D 29 M O 1 Y 20 1 3 Estimated finish date D 30 M 06 Y 20 1 4
19.43275 an filmfil	15-07-1700Residents completed by consenting/certifying authority with summarity industrial dependent approver
Land a service of the service and the service of	
Local Council Area	
¹ DA/CC/CDC No.	X 2 0 1 2 - / 0 4 5 8 7
Estimated value	749.7 / 4.00 Levy payable s
of work (see note	
¹ If you have pro	ovided a CC above, please provide DA number here MO 117151/12
	$(I \cap A \cup A$
Name of Officer/F	Private Certifier / Davot Business hours phone Careful Business hours phon
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Department/Auth	nonty — ——————————————————————————————————
Contract/DA No ((circle which)
Levy payable	
Contact person (Print) Phone number L_ _ L_
Contact person ((Signature) Date D M Y
·	
GATE : DES	are your some some some some some some some some
Any false or mis	leading information provided on this form may result in prosecution under Section 58A. that the information provided on this form is true and correct to the best of my knowledge
1 Heleby declare	11 6 Mu Lu Lu Lu Zu
Name	Signature Date Detail M. L. Y. L.
Marie of the co	ETENNIESTEDANHERE (1978) (1918) STEEREVERSE
L. S. C.	
Exemption Appro	oval Certificate No.

Long Service Corporation, Locked Bag 3000, Central Coast MC NSW 2252
Tel: 13 14 41 Fax: (02) 9287 5685 Email: levy@longservice.nsw.gov.au www.longservice.nsw.gov.au

Aug 11/180



ABN: 63 119 997 590 PO Box 80, Thornleigh NSW 2120

ph: 9980 2155 fax: 9980 2166 E-mail: admin@fbcc.com.au

CONSTRUCTION CERTIFICATE No:

X2012-/04587

Signature:

Dom Di Matteo

Approval Date:

22/01/2013

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

Date Application Received:

17/10/2012

Council:

Pittwater Council

Development Consent No: Name of Certifying Authority: Corporate Accreditation No: Accreditation Body:

N0175/12

Approval Date:

16/10/12

Fitzgerald Building Certifiers Pty. Ltd.

ABC2

BUILDING PROFESSIONALS BOARD

Applicant: Address:

Pamela Marshall C/- Architectural Projects Pty Ltd Studio 1, 181 Lawson Street Darlington 2008

Contact Number:

9319 1122

Owner:

Pamela Marshall

Address:

29 Lamrock Avenue Bondi 2026

Contact Number:

Site Address:

Lot 6 - DP 541797 - No 949 Barrenjoey Road Palm Beach 2108

Description of Development:

Alterations & additions to the existing dwelling including a swimming pool and car parking

platform

Building Code of Australia Classification:

1a & 10b

Value of Work:

\$749714.00

Builder Details

Name: Licence / Permit A & DR Illes Sydney Pty Ltd

Number:

124806C

Address:

33A Rohini Street Turramurra 2074

Contact Number:

9440 4811

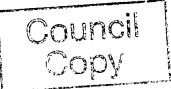
Approved F	Plans and Documents	
Plans Prepared By	Drawing Nos.	Dated
Architectural Projects Pty Ltd BASIX Architectural Projects Pty Ltd Architectural Projects Pty Ltd	Drawing 1339 Drawing AR 01, AR 03 - AR 07 Issue A A139410 Archival Report Drawing 1338 Drawing DA 01 - 09 Issue C	20/12/2012 28/05/2012 20/12/2012 21/12/2012

Engineer Details	Drawing Nos.	_ Dated _
VDM Consulting Engineers Pty Ltd	Job SD1003-009 Drawing 1/5 - 5/5	December 2012
Geoff Ninnes Fong & Partners Pty Ltd Whipps-Wood Consulting Whipps-Wood Consulting Mario F. Benitez VDM Consulting Engineers Pty Ltd	Job SN7479 Drawing SP1 Issue A Project 2010-0238 Drawing H04/D Project 2010-0238 Drawing H02/B Geotechnical Risk Management Form 2 Certificate of Adequacy	19/12/2012 16/10/2012 20/01/2012 19/10/2012 25/05/2012

Fitzgerald Building Certifiers Pty. Ltd. 1-3 Thornleigh St. Thornleigh, P.O Box 80 Thornleigh NSW 2120 - (02) 9980 2155.



Phone No:



1-3 Thornleigh St, Thornleigh NSW 2120 P: 9980 2155 F: 9980 2166 E: admin@fbcc.com.au

SECTION 1: APPLICATION FORM

APPLICATION FOR CONSTRUCTION/COMPLYING DEVELOPMENT CERTIFICATE

Principle Certifying Authority Agreement

Issued under the Environmental Planning & Assessment Act 1979

the certifying authority und	ation you provide in this application will enable your application to be assessed by ler the Environmental Planning and Assessment Act 1979. If the information is not may not be accepted. The application can potentially be viewed by members of the gerald Building Certifiers if the information you have provided in your application is incorrect or requires modification.
Construction Certification Complying Developed Application for Occupangement As PC	ment Certificate upation Certificate
Dev. Application No: Approval Date:	DA NO175/12 16.10.2012
Name/s: Postal Address: Ph: Email:	PPLICANT (This Must Be The Owner/Authorised Agent) ARCHITECTURAL PROJECTS PTM. LTD. STUDIO 1, 181 LAWSON STREET, DARLING TON NSW 2008 9319 1122 dane @ architectural projects. net.au
Address: Lot: DP:	LAND TO BE DEVELOPED 949 BACRENICLY RIAD, PAUM BENCH LOT 6 DR. 541797
Description of work: Estimated cost of works:	DETAILS OF DEVELOPMENT ALTERATIONS AND ADDITIONS TO THE EXISTING DIMELLING INCLUDING A SWIMMING 120L - \$749,714
Name: Licence / Permit No: Address:	DETAILS OF BUILDER A & Ds2. ILIES PTY. LTD. LIC. 12406 C 33 A ROHINI STREET TURKAMURRA NSW 2074

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9440 4811

SECTION 2: PCA SERVICE AGREEMENT

Engagement

The engagement or the appointment of the PCA will not commence until the proposed PCA has accepted and notified their acceptance of the appointment to the Appointer and the Local Council. The proposed PCA or Fitzgerald Building Certifiers will not accept any responsibility for any damages, losses or delays suffered by the Appointer as a result of omissions or errors contained within this form or failure of the Appointer to comply with all items contained in this form.

Scope

The scope of works covered under this appointment is restricted to those building works as described in the "Details of Development" section of the form. Fitzgerald Certifiers does not undertake quality control inspections. Critical stage inspections do not provide the level of supervision required to ensure that minimum standards and tolerances are achieved, this function is the responsibility of the principle contractor or owner builder.

Terms and Conditions

- All information provided by the Appointer on this form will be taken to be accurate and correct. The PCA does not accept
 any responsibility for any intentional or unintentional error or omission made by the Appointer on this form.
- Where building works have commenced prior to the acceptance of appointment of PCA without the knowledge of the intended PCA the appointment shall be invalid and acceptance of the appointment will be withdrawn.
- 3. The Appointer is obliged to keep the PCA informed of any changes to the details of Principal Contractor (Builder) and any relevant insurances required by the builder. Failure to meet this obligation will result in the Appointer indemnifying the PCA against any losses or suffering as a result of non compliance with the legislative requirements.
- 4. The Appointer is responsible for ensuring that a copy of Home Warranty Insurance or Owner Builder Permit is submitted to the PCA prior to the commencement of building works. The acceptance of the appointment will not occur until this requirement has been met.
- 5. It is the responsibility of the Appointer to ensure that critical stage inspections are booked in with our office, or make arrangements for your builder to do this on your behalf no later than 3pm on the prior business day via fax, post or email.
- 6. The PCA will not accept responsibility for any damages or costs associated for the inability to issue an Occupation Certificate due to, but not limited to, the following:- non-compliance with a development consent condition, unsatisfactory final inspection, non compliance with Basix commitments, missed critical stage inspections, non compliance with approved building plans or failure to pay the required inspection or Occupation Certificate fees.
- 7. The PCA does not undertake detailed quality control inspections and the role of the PCA is primarily to ensure that the development proceeds in accordance with the consent, Construction Certificate and that the development, is fit for occupation in accordance with its classification under the Building Code of Australia. Critical Stage Inspections do not provide the level of supervision to ensure that the minimum standards and tolerances specified by the "Guide to Standards and Tolerances" ISBN 0 7347 6010 8 are achieved. The quality of any development is a function of the quality of the principal contractor's or owner builder's supervision of individual contractors and trades on a daily basis during the development. The PCA does not undertake this role. Further, The PCA does not adjudicate, on building contract disputes between the principal contractor, contractors or owner.

Fees

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Failure to pay the prescribed Appointment of PCA fee will generally result in a refusal to accept the appointment of PCA. Should an appointment be accepted and payment not honored, the Appointer will be ultimately liable for unpaid fees, regardless of whether the fee was paid directly to the Builder, and any associated debt recovery costs plus interest incurred from the time of the appointment.

It is noted that the PCA and/or Fitzgerald Building Certifiers may suspend its services provided to the appointer or the builder, where fees have not been paid, within the provisions of the Building and Construction Industry Security of Payment Act 1999.

Section 3: Declaration By The Appointer/s

I/We the aforementioned persons as described as the Appointer/s in the PARTICULARS section hereby declared the following

- 1. I/We "have the benefit of the Development Consent or Complying Development Certificate" within the meaning and under EP&A Act 1979 for the proposed works as indicated on this form.
- 2. I/We, to the best of my/our knowledge, have completed all details in the PARTICULARS section in a correct and accurate manner and hereby indemnify the appointed PCA and Fitzgerald Building Certifiers against any damage, losses or suffering as a result of incorrect information provided under that section.
- 3. I/We hereby consent to the Builder as shown within the "Particulars" section of this form to apply and obtain on my/our behalf a Construction Certificate, Complying Development Certificate, Occupation Certificate/s or any other "Part 4A Certificate" within the meaning of the EP&A Act 1979.
- 4. I/We have read, understood and herby accept the terms and conditions outlined within the PCA Service Agreement on this form.
- 5. I/We understand that the Appointment of the PCA is not taken to be have been accepted until a copy of the acceptance has been signed by the proposed PCA and released to the Appointer and Council, effective from the date of the acceptance.
- 6. I/We understand that the Commencement of Building Work cannot be any earlier than 2 business days after the appointment of PCA has been accepted and therefore declare that no building works will commence until after such date.
- 7. I/We authorise the right of entry for any certifying authority arranged by Fitzgerald Accredited Certifiers to carry out inspection required by the PCA under this agreement.
- 8. I/We authorise the transfer of PCA to another employee of Fitzgerald Building Certifiers if the original PCA ceases employment with Fitzgerald Building Certifiers for any reason or becomes unable to fulfill their duties as the PCA at no cost to Fitzgerald Building Certifiers.
- 9. I/We understand the appointment of PCA will not be accepted by Fitzgerald Building Certifiers until documentation of required insurances or owner builder permit is submitted to Fitzgerald Building Certifiers, in accordance with the Home Building Act 1998.
- 10. I/We understand that it is my/our responsibility to ensure that sufficient notice is given to Fitzgerald Building Certifiers, in writing, to carry out critical stage inspections or make arrangements with your builder to carry out this function on your behalf as a condition of your Building Contract.
- 11. I/We declare that I/we will notify the PCA at the earliest possible instance of any changes of the appointment of the builder and ensure any mandatory insurances required by the incoming builder in accordance with Home Building Act 1989 are in place.

Section 4: Owners Declaration/Signatures

OWNERS DECLARATION

I, the aforementioned person or authorised representative of a legal entity as described as the Applicant In Section 1 of the Application Form hereby declare the following:

- I, to the best of my knowledge, have completed all details in the Application Form in a correct and accurate manner and hereby indemnify Fitzgerald Building Certifiers against any damages, losses or suffering as a result of incorrect information provided under that section.
- 2. I have obtained consent from the owner/s of the property as indicated in the PARTICULARS section to apply and obtain a Construction Certificate. Such written consent will be provided with this application.
- 3. I have read, understood and hereby accept the terms and conditions outlined in Section 2 of this form.
- 4. I understand that the Application for a/the Construction Certificate is not complete until all required documentation has been received by Fitzgerald Building Certifiers.
- 5. I understand that the Application for and acquisition of a/the Construction Certificate does not authorise Commencement of Building Work. (Refer to appointment of PCA on Fitzgerald Building Certifiers PCA Form.)

As owners of the above mentioned property we consent to this application.

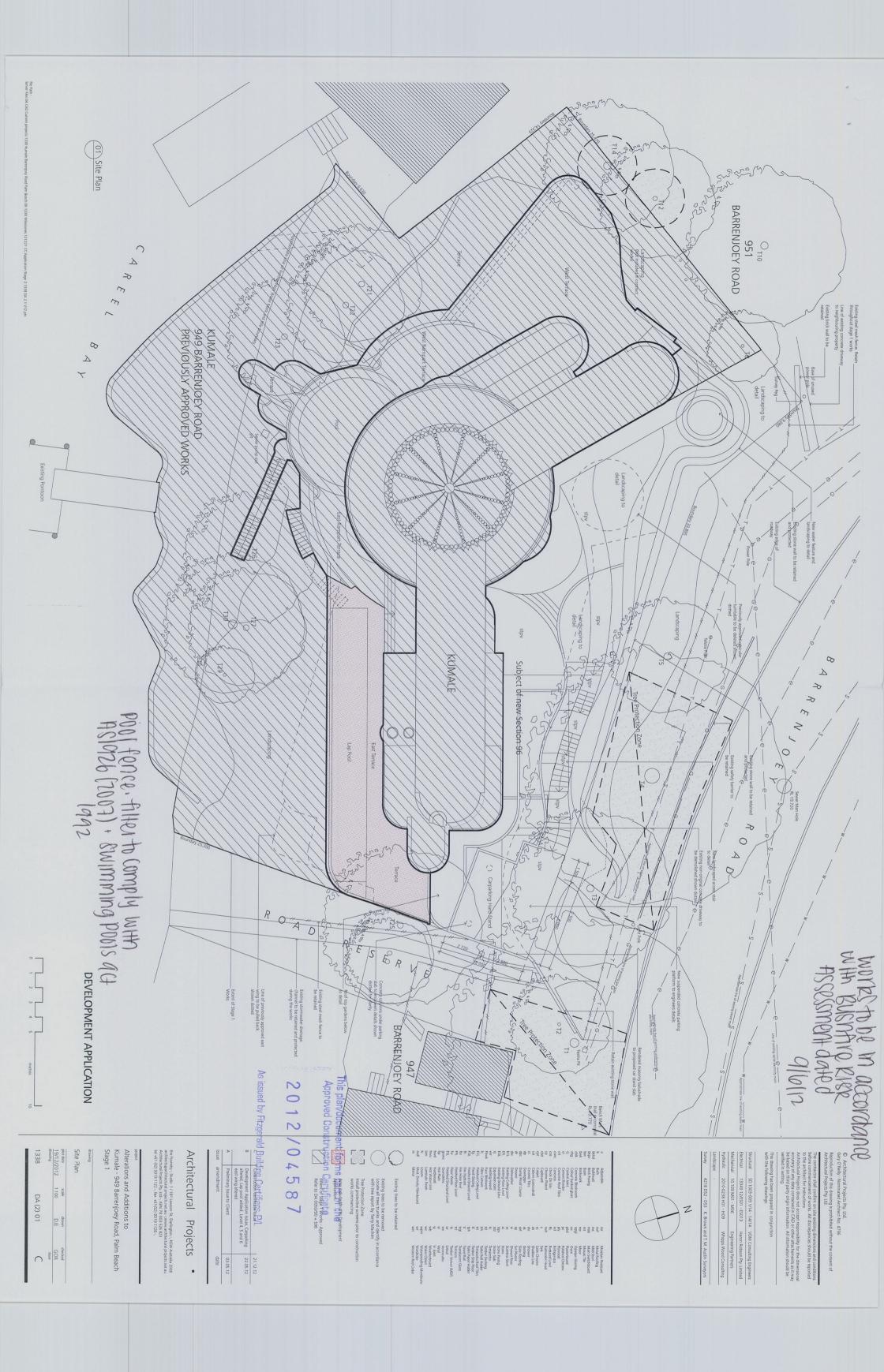
As owners of the above mentioned property I/we wish to appoint Paul Fitzgerald as PCA

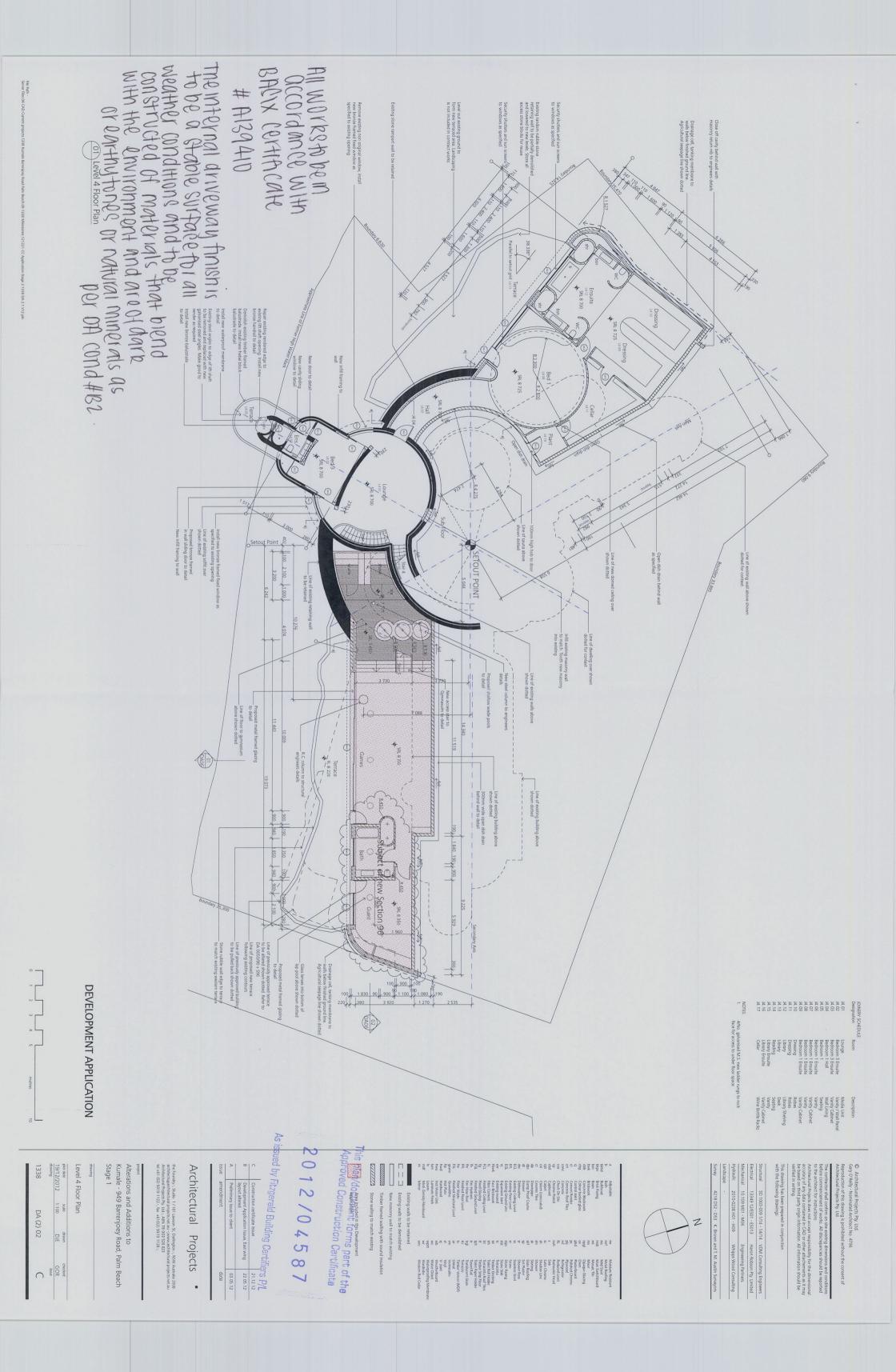
Owners Signature/s:

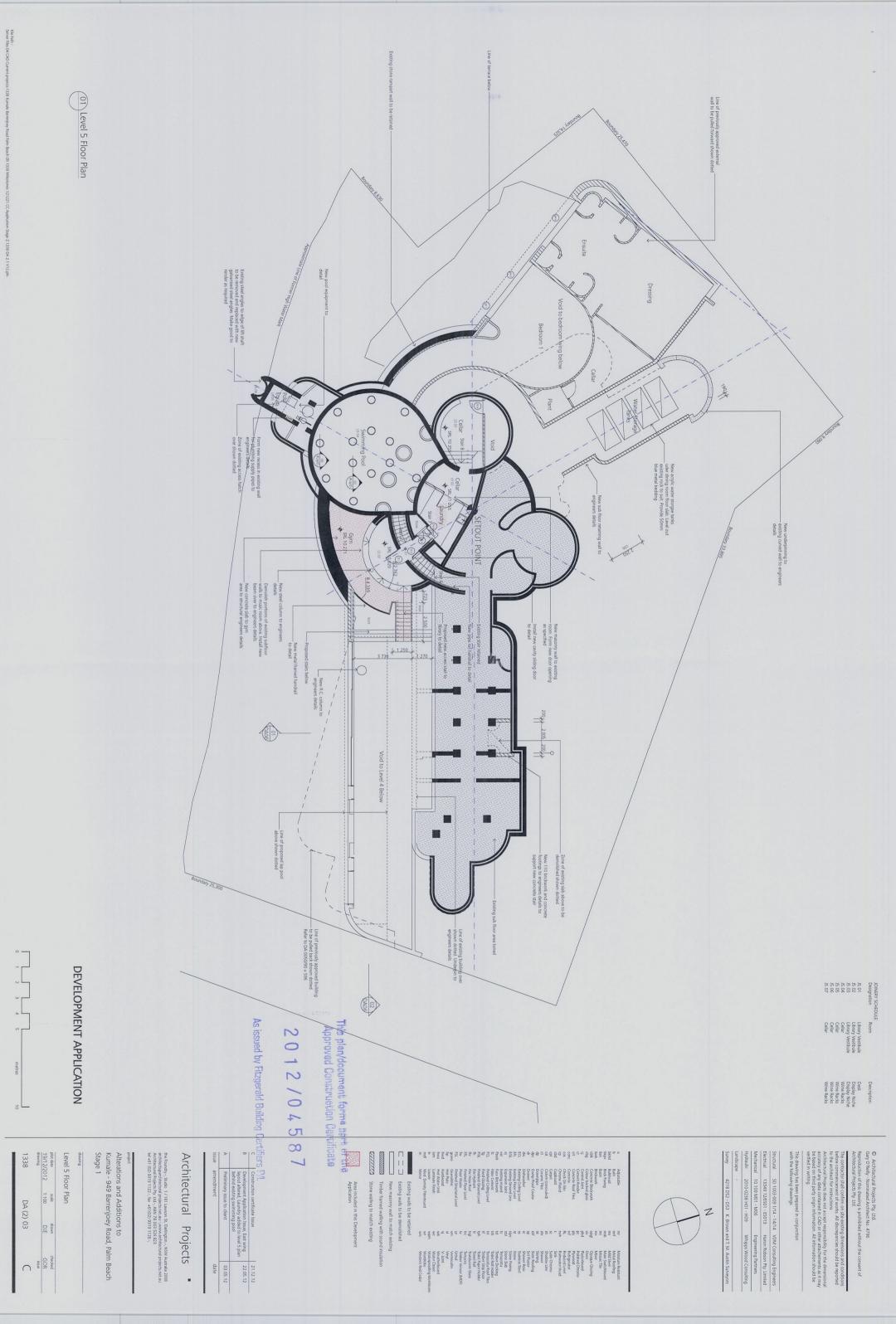
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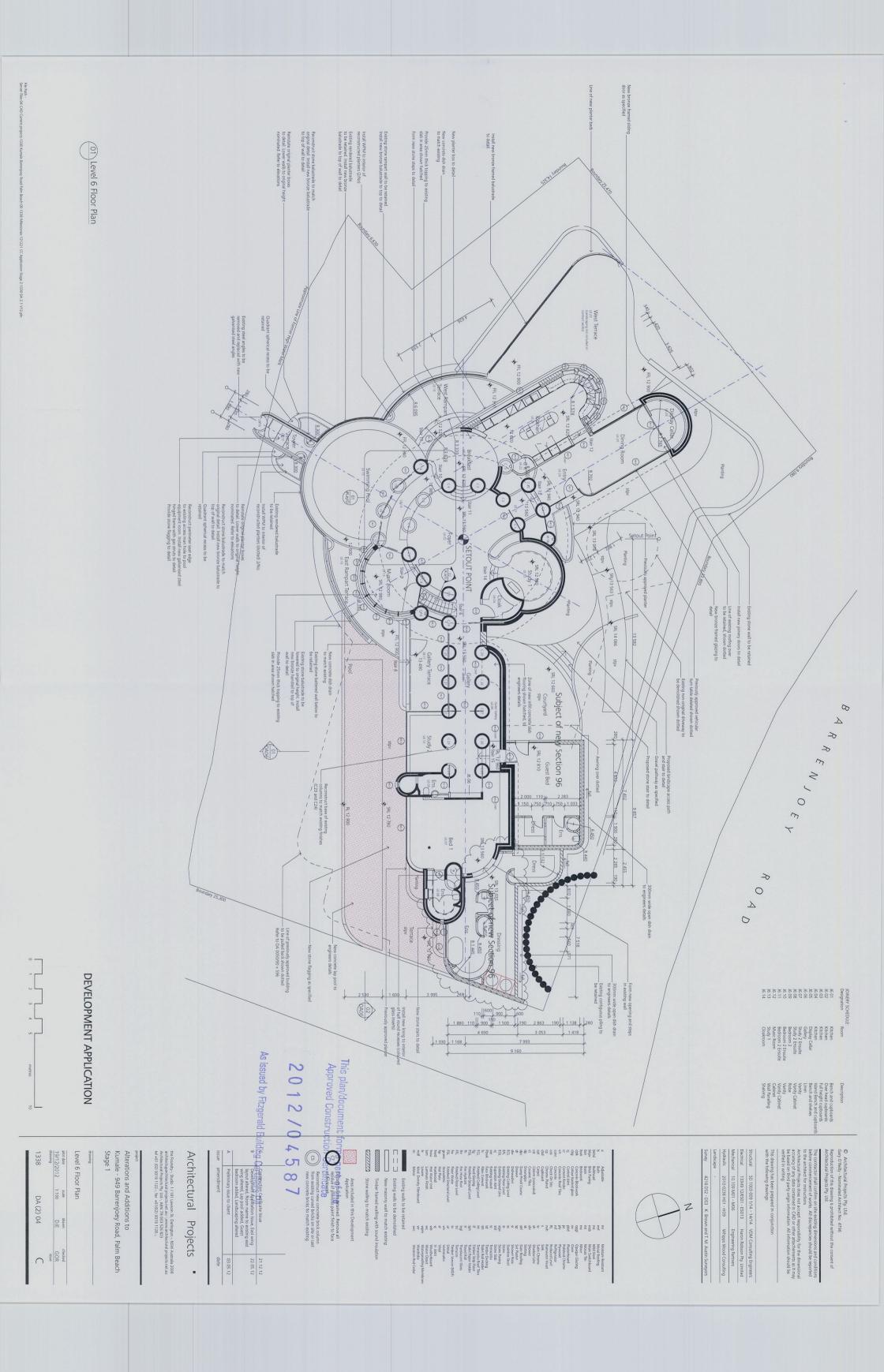
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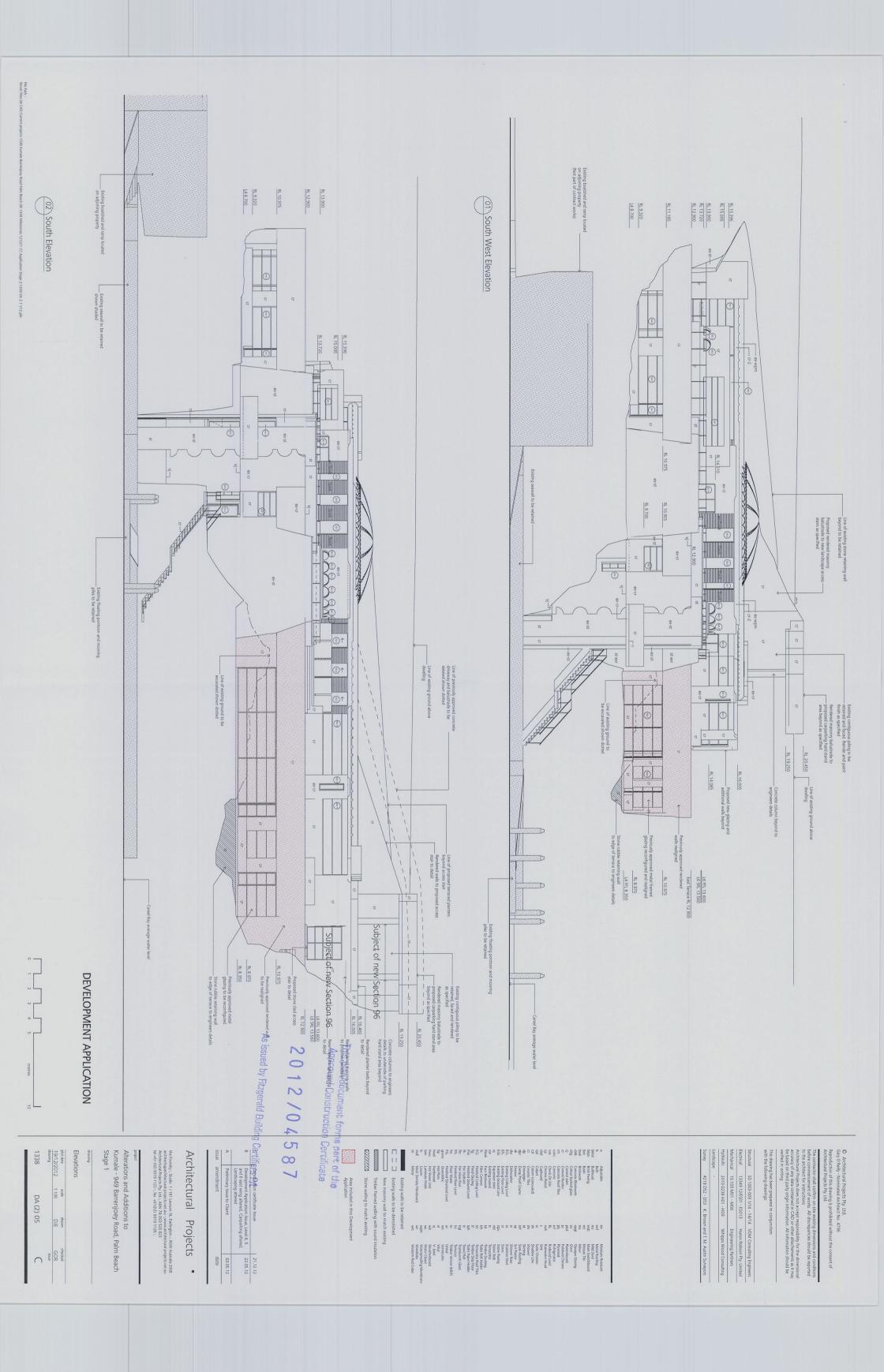
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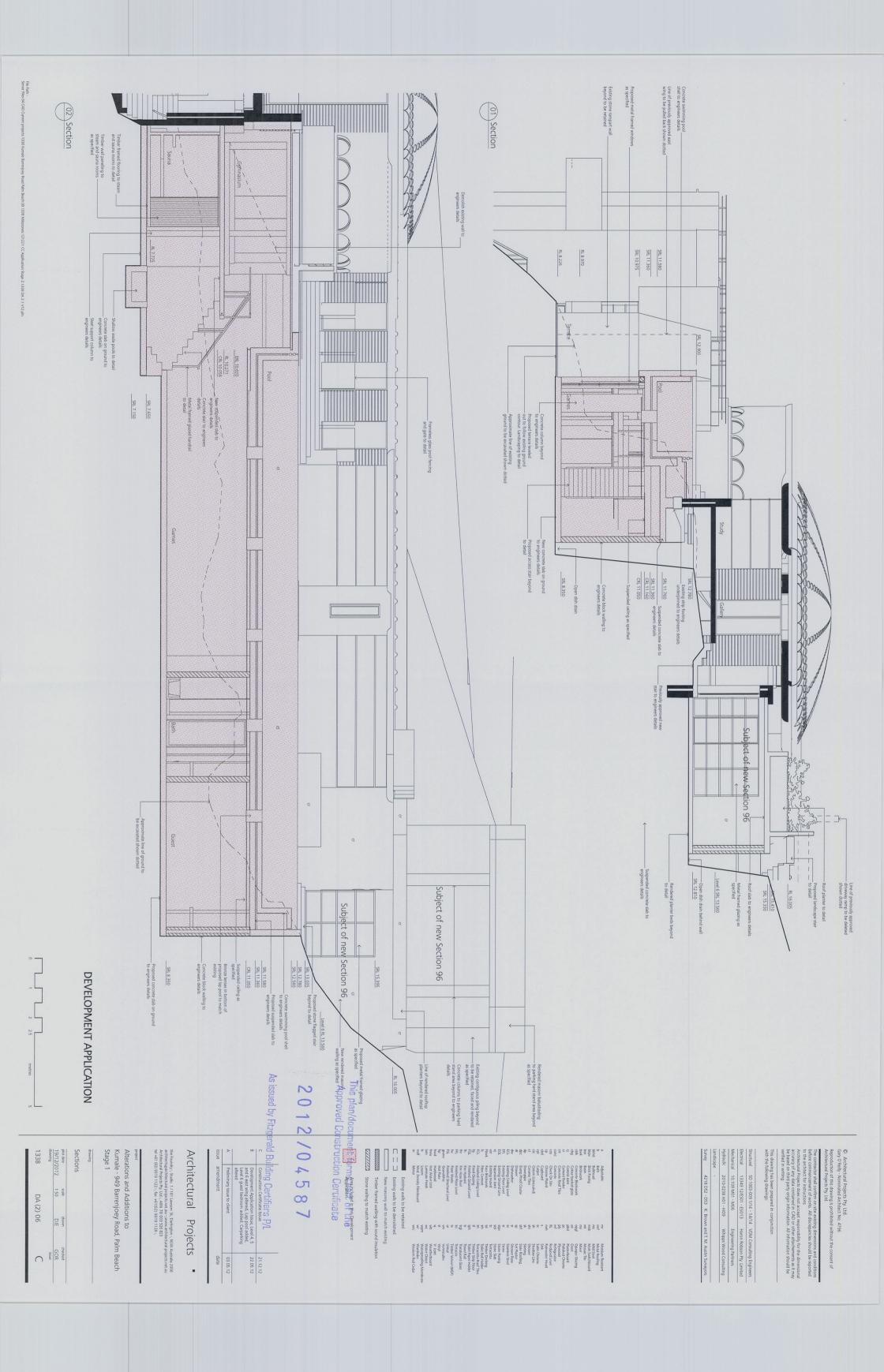


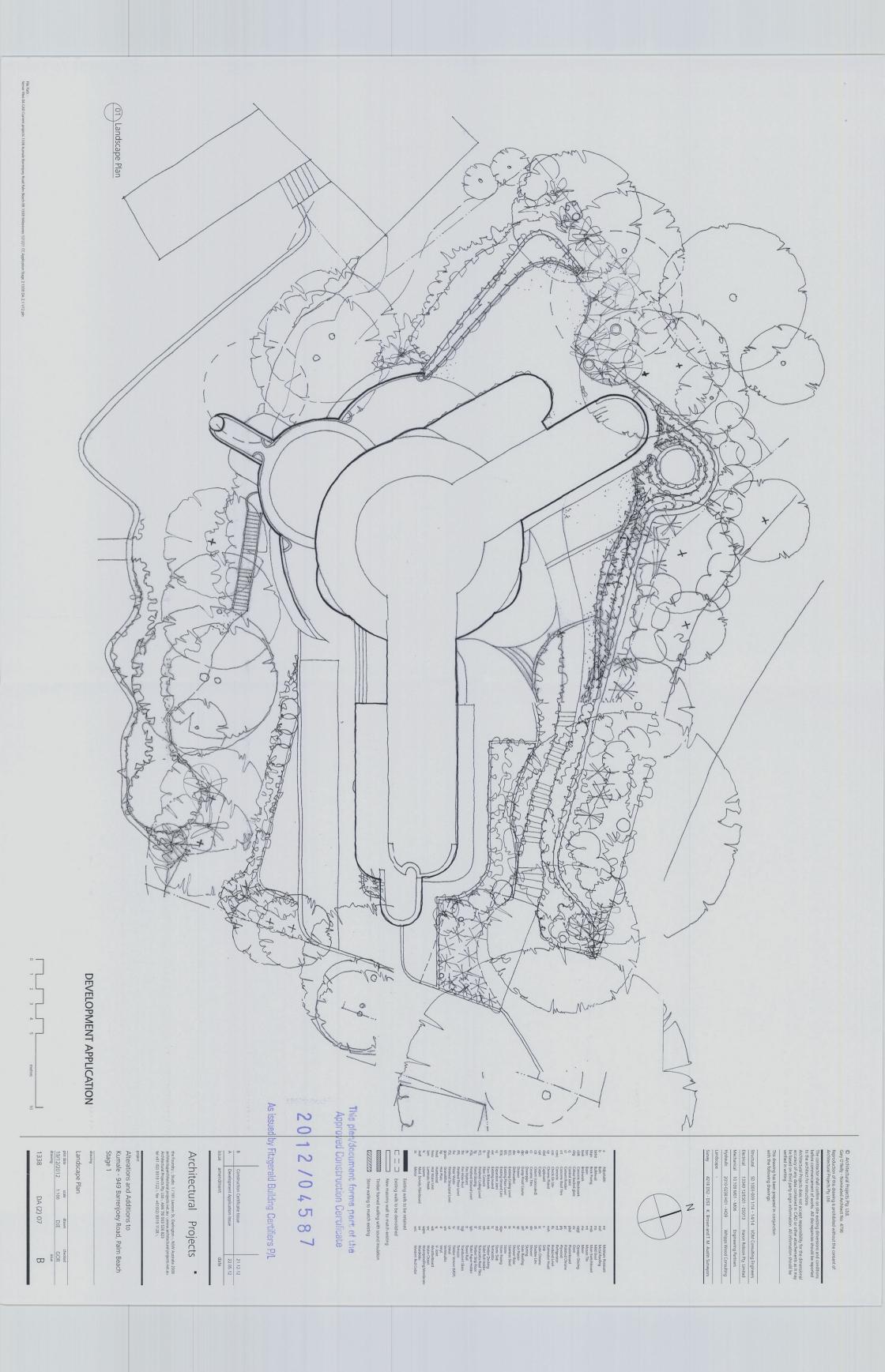




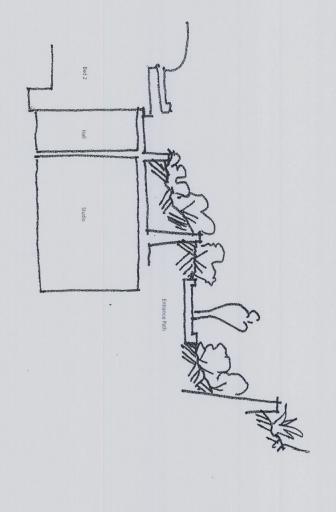


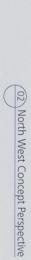






Screen pranting to be provided us por on an Cond#9







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(03) Section - Entry Path

ON drawing	Stage	Kumal
EVELOPMENT APPLICATION		native
OPN		1.5
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- Proposed Plants	ants				
ME	COMMON NAME	Height (m)	Notes	20	Com
III.	Creek Lillypilly	8m	endemic	1	tom
triodora	Lemon myrtle	9m	evergreen, native		
nentosum	Snow in summer	0.1 m	exotic		
ompact	White Correa	0.3-1.5 m	endemic	As issued by Fil	17
ulata	Spotted Gum		evergreen, endemic	-	-
	Japanese sago palm		exotic		
ilea	Paroo Lily	0.5 m	native		
ccelsa	Gymea Lily	1m	native		
eticulatus	Blueberry Ash	8-10m	evergreen, endemic		
arinifolia	Rosie Dwarf	0.6m x 1m	native		
	Sweet Bay	5m	victorian		
ndiflora 'Little Gem'	Bull Bay	3.5 m 18m	evergreen		
evolutum	Rough fruit Pittosporum		endemic		
enuifolium	Screenmaster	4 m	exotic		
ndulatum	Sweet Pittosporum	4 m	endemic		
da "Mauve Dome"	Fan flower	0.3m x 0.5m	native		
manii	Lillypilly	5m	evergreen, native		
etiolare	Licorice plant	0.6m x 1.5m	exotic		
floribunda	Weeping Lillypilly	12m	evergreen, native		
alis	Rough tree fern		evergreen, endemic		
eri	Australian tree fern		evergreen, native		
	Port Wine Magnolia	to 3m	exotic		
ommunis	Burrawang, cycad	1m	endemic		
escens	Silver Border	0.5-1m x 2m	native		
ticosa, Jervis (sem,	Coastal Rosemary	1m	native		

Schedule - Proposed Plants

This plan/d

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zgerald Building Certifiers P/L

Existing value to the demolshed

E = 1 Existing walls to the demolshed

New macrory wall to match existing

New macrory wall to match existing

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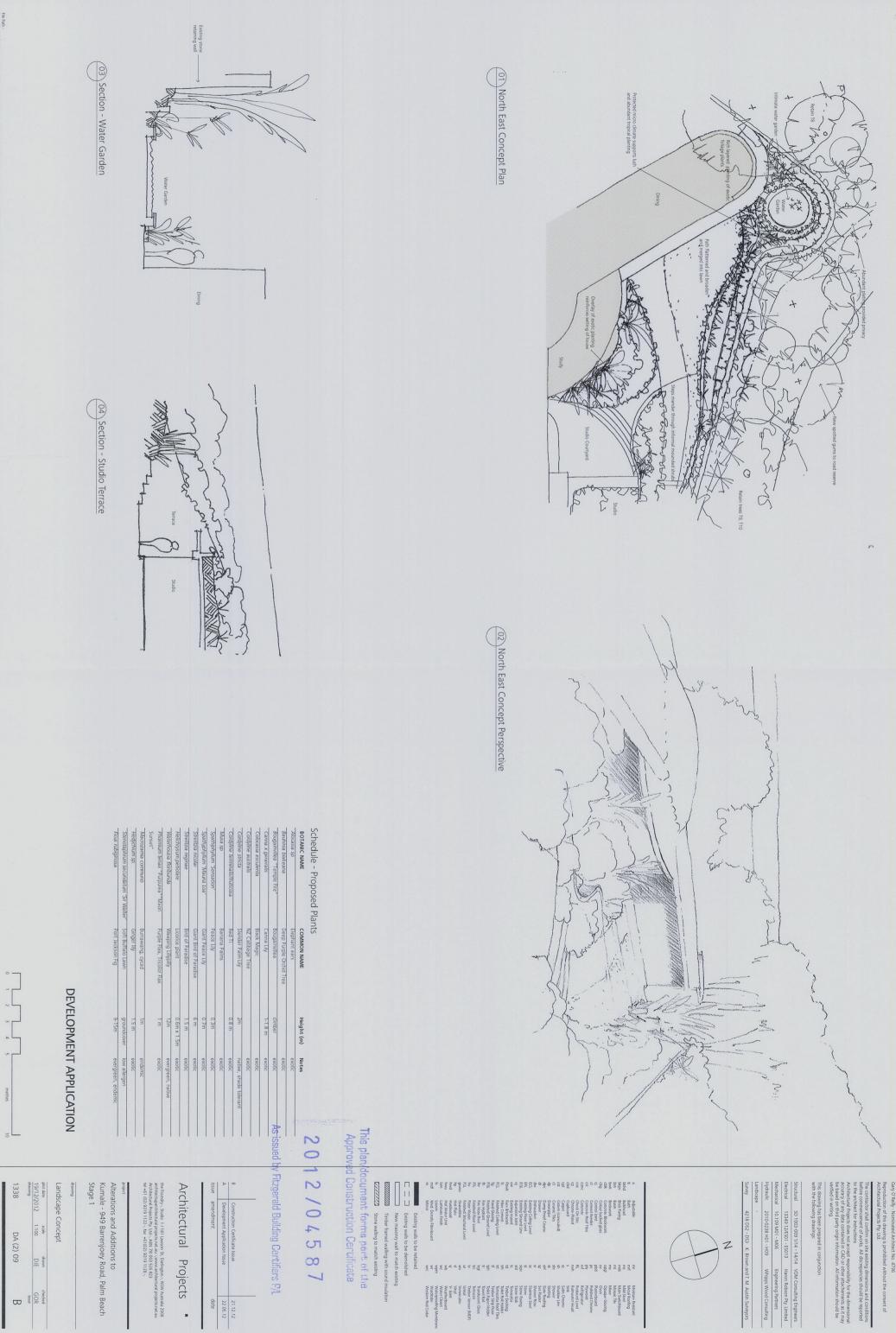
itions and Additions to le - 949 Barrenjoey Road, Palm Beach

Landscape Concept scale 1:100 checked GOR issue

DA (2) 08

e commencement of well seating disselects and conditions a varieties for instructions. All disrepancies should be reported with the first instructions. All disrepancies should be reported sectual Projects does not accept responsibility for the dimensional so of any data condisional in CAD or other distancement as it may god on this party origin information. All information should be to nothing.

al SD 1003-009 1/14 - 14/14 VDM Consulting Engineers
al 13349 12/ES01 - ES013 Haron Robson Pty. Limited
lical 10.109 M01 - M06 Engineering Partners
ic 2010-0238 H01 - H09 Whilpps Wood Consulting



This plan/document forms part of the Approved Construction Ceruficate

Hone Yab, 1804 265

Hone Yab, 1804 265

Fit: (21) 5999 4295

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CONSTRUCTION NOTES

GENERAL
G1 These c
G2 During c
stressee
G3 U.N.O.:
G4 The stn These drawings is to be read in conjunction with the architectural drawings.

During construction the structure shall be maintained in a stable condition and no part shall be over stressed. Builder to ensure stability of existing structures the vicinity of excavation works.

UN.O. stands for unless noted otherwise.

The structural elements shown on these drawings have been designed for live bads as follows:

a. Balcontes & Stairs - 4.04Pa

b. Office & Garge - -3.04Pa

c. Roofis

d. Elsewhere - 1.04204Pa

d. Elsewhere - 1.51/18/2.04Pa

d. Elsewhere - 1.51/18/2.04Pa

d. Elsewhere - 1.51/18/2.04Pa

d. Elsewhere - 1.51/18/2.04Pa

d. Elsewhere by scaling from the drawings. All setting out dimensions shall be referred to the Engineer prior to commencement of works.

G6 Annual probabilities of exceedance - Importance level
The importance level for this structure has been ascertained using AS/NZS 1170.0 Structural design actions bert of Ceneral Principles and the Building Code of Australia (BCA) as described below:
Consequence of failure - Ordinary
Description - Medium consequence for loss of human life, or considerable economic, social or environmental consequences
Importance level - 2
Design working life - 100 years
Importance level - 2
Wind (non-cyclonic) - 1/1000 (Category - N3)
Earthquake - 1/1000

CONCRETE
G1 All workmanship and materials shall be in according to the contract documents.
C2 Cement to Type W U.N.O. Concrete components.

a minimum slump of 170mm (±25mm) days minimum with NO curing agents

ically vibrate all concrete in the forms to give maximum compaction without segregation. Its shall not be placed between reinforcement and concrete surfaces (between cover) unless shown intgs or specifically approved by the Engineer.

on drawings or specifically approved by the Engineer.

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

No hotes, chases or embedment of pipes, other than those shown on the structural drawings, shall be made in concrete members without prior approval by the Engineer.

Splices in enforcement shall be made only in the positions shown or as otherwise approved by the Engineer.

22 8 22

MISPECTION BY ENGINEER
48 HOURS NOTICE IS REQUIRED BEFORE ANY SITE INSPECTION
1. Bearing strain of all foolings prior to concrete pour
2. Any reinforcement prior to concrete pour
3. Timber & Steel framing prior to debding and/or lining
4. Unde after instalation
5. CONTACT YOUR POUR POUR POPPING AUTHORISE PAA ACT REGULATIONS IN MOCORDANCE WITH REVISED EPAA ACT REGULATIONS.

einforcement prof to concrete pour in 8 Seath standing not to addeding and/or hing real relatation. The control of the contr

C10

nominal bar size in mm 17N20 - 350

C12 Where transverse tie bans are not shown, provide N12-400. Splice where necessary and lap with main bars for 400mm.

C13 All concrete shall be placed and "cured" in accordance with AS 3600. Where curing compound is used it must applied (a) onto slabs within 2 hours of finishing operation, (b) onto walls and columns immediately after removal of formanck.

C14 Horizontal formwork shall be shipped when approved by the Engineer:
C15 Slabs and bearns shall bear only on the bearns, walls, etc., shown on the drawings; all other building elements shall be kept 15mm clear from soffice structure.

C16 All slabs-on-ground shall be placed on 200 jum damp proof membrane over 50mm layer of compacted sand.

C17 No concrete shall be placed directly with the ground. Isolate all surfaces from contact with Forticon (or similar) with taped joints.

C18 Compact III areas and subgrade under building and pevenent to minimum 96% standard maximum dry density in accordance with AS 1289 C15.2.1

TION

TON

excavation and backfill shall be carried out neatly to the lines. Levels and grades specified excavation and backfill shall be carried out neatly to at least 95% of its simuland to specified shall be compacted generally to at least 95% of its innum dry density (test method in accordance with AS 1289-E1.1 - Standard Compactive

national beneath edge beams to be compacted in accordance with clause 6.4.2 of AS 0.1936 and as specified in EZ above.

1936 and sa specified in EZ above.

19 soil, vegetation and deletrious material shall be stripped from the building platform prior to commencement of earthworks.

FOUNDATIONS

E1 Scodings have been designed for a uniform allowable bearing pressure of 600kPa and as sipulated in the Geotoch reports prepared by Douglas & Pathners and VDM. Foundation material shall be approved for this pressure before placing concrete in footings.

E2 Footings must bear into undistribed natural ground clear of organic material.

E3 Footings must bear into undistribed natural ground clear of organic material.

E3 Footings to be constructed and back filed as soon as practical following excavations to avoid softening by rain or dying out by exposure.

E3 TRUCTURAL CONCRETE REINFORCEMENT STEELWORK

SR1 All reinforcement is to be continuous over supports.

SR2 Reinforcement is to be continuous over supports.

SR3 Top entiforcement is to be continuous over supports.

SR4 Welding of reinforcement is to be continuous over supports.

SR4 Welding of reinforcement is not permitted unless shown on the structural drawings.

U.N.O. all structural steel work bearing on mansory to be bedded on 20mm thick and full width non-shrinkable coment mortar grout pad.

SR5 Except where steelwork is concrete encased or where noted otherwise all structural steelwork to be Galvanized Steel. Should welding in-situ is required on any galvanized material the affected area MUST be painted-toxable using galvanized plant in accordance with ASNAZS 4830.

SR6 Except where steelwork is concrete encased or where noted otherwise all structural steflework to be Galvanized Steel. Should welding in-situ is required on any galvanized material rise affected area MUST be painted-toxable using galvanized plant in accordance with ASNAZS 4830.

SR6 Two copies of checked workshop drawing to be submitted to the Engineer and approval obtained in writing from hinther before fairficient using galvanized plant in accordance with a submitted to submitted to the Engineer and approval obtained in section and members and not discussioning accuracy.

SR7 Trench meats shall be spiced where necessary by a lap of 500mm. All cross wires to trench meath s

M1 Provide sliding surface consisting of 2 layers of galvanised iron sheets with graphite grease in between top an bottom of all load bearing masonry walls in contact with suspended slats. Prior to application of sliding surface the concrete or masonry shall be level and smooth.

M2 No masonry waits to be erected on suspended slats and bearts until all peopling has been removed.

M3 Brids used in load bearing construction shall have a minimum compressive strength (as per A.S. 3700) of 20 M4 and use of surface or control of the strength of the provide 12mm polystyrere bond breaker between vertical façes of masonrov waits and control of the provide 12mm polystyrere bond breaker between vertical façes of masonrov waits and control.

STRUCTURAL TIMBER

To All invertible and malerials to be in accordance with current editions of AS 1720 and AS 1884,

17 All inverte to be minimum stress grade F7 U.N.O. All hardwood to be minimum stress grade F14 U.N.O.,

18 All index to be minimum stress grade F7 U.N.O. All hardwood to be minimum stress grade F14 U.N.O.,

19 No timber beams or joists to be notiched unless specified by the Engineer.

19 Forcide double joists unround openings and under walls above U.N.O.,

10 Ecternal timber to be durability class 1 or 2,

11 First all exposed cut and stress with Reseal by Protin to manufacturer's specifications to achieve required hazard level exposure classification.

10 Joist deeper than 150ms had be bloked over supports and at a maximum of 3.000mm centres,

11 In the district of the stress of the stress of the special product.

12 Honder for boths to be exact size. Washers shall be 3.0mm thickness (min.) and at least 2 ½ times the both diameter. All boths shall be that Grade 46 U.N.O.,

11 Honder for boths to be exact size. Washers shall be 3.0mm thickness (min.) and at least 2 ½ times the both diameter. All both shall be that Grade 46 U.N.O.,

12 Hold grade shall be constructed with Double U.T boots throughout.

13 Honder for both the shall be provided at the base of the wall to penil removal of morter droppings.

14 Block walls shall be constructed with Double U.T boots throughout.

15 Block walls shall be compaced of one part cament, one tenth part time and three parts sands.

16 Honder droppings at joints to be rodded and removed at bother of books through clean out openings prior to filling all cores.

18 Morter droppings at joint to be provided in both faces, bars are to be located in alternate cores.

18 Where worked reinforcement is to be provided in both faces, bars are to be located in alternate cores.

18 Where horizontal reinforcement is to be provided in both faces, bars are to be located in alternate cores.

18 Morter droppings at joints as shall be gain. As if inspection reveals the vertical

STRUCTURAL STEEL WOOK

A 4516 - commercial boils Carde 4.5. strug tightened,

b. 8.85 - high strength structural boils Grade 8.8, strug tightened,

c. 8.8 FTB - high strength structural boils Grade 8.8, strug tightened to AS 1511 and acting as a bearing joint.

d. 8.8 FTB - high strength structural boils Grade 8.8, strug tightened to AS 1511 and acting as a bearing joint.

STRUCTURAL STREEL WOOK

STRUCTURAL STEEL STRUCTURAL ST

DRAWINGS
1. CONSTRUCTION NOTES
2. LEVEL 4 & 5. - PLAN VIEW - SUSPENDED SLAB -TOP & BTM. STEEL
REINFORCEMENT + SECTIONS,
3. LEVEL 6 - PLAN VIEW + SECTIONS
4. SECTIONS_2
5. SECTIONS_2

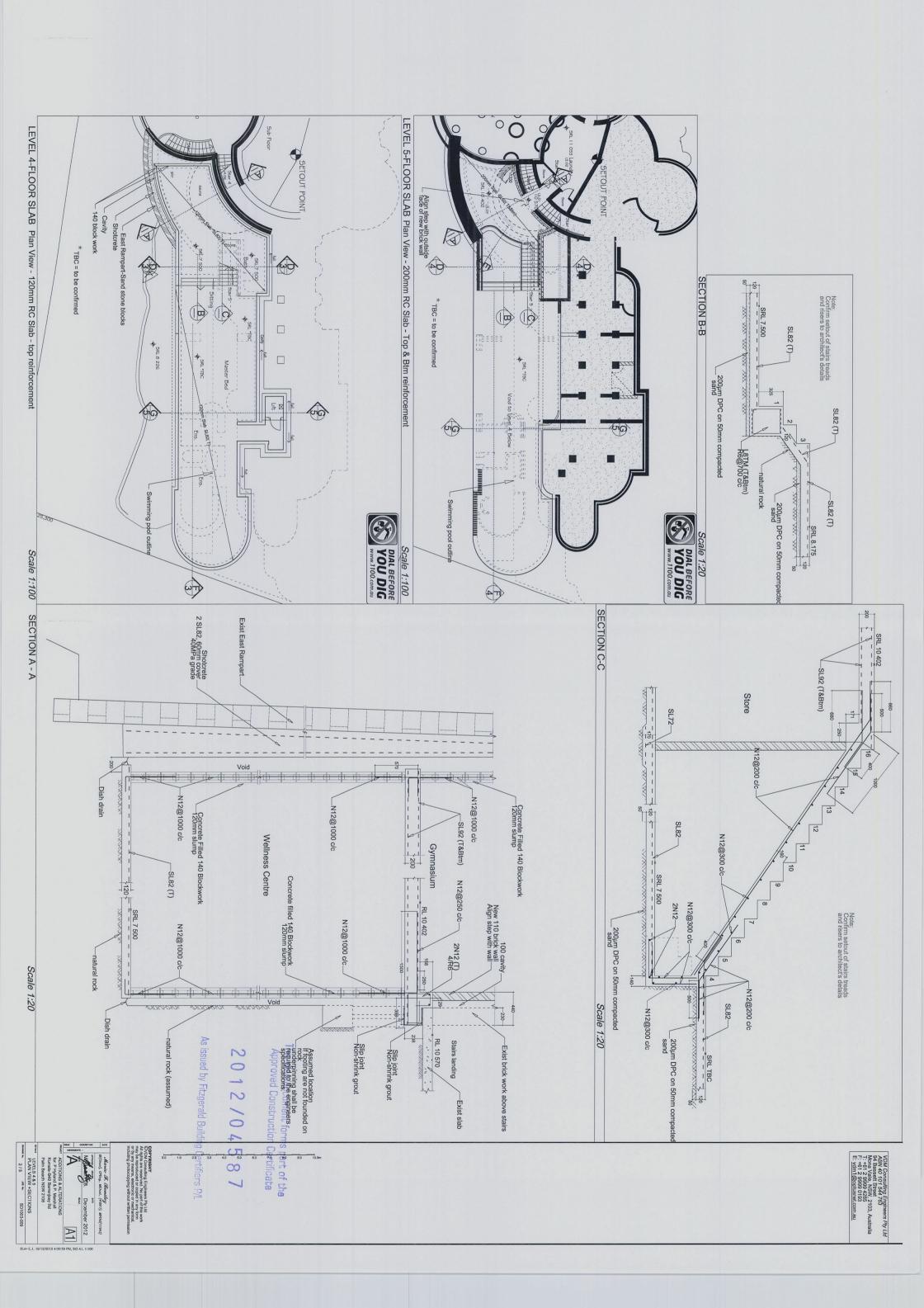
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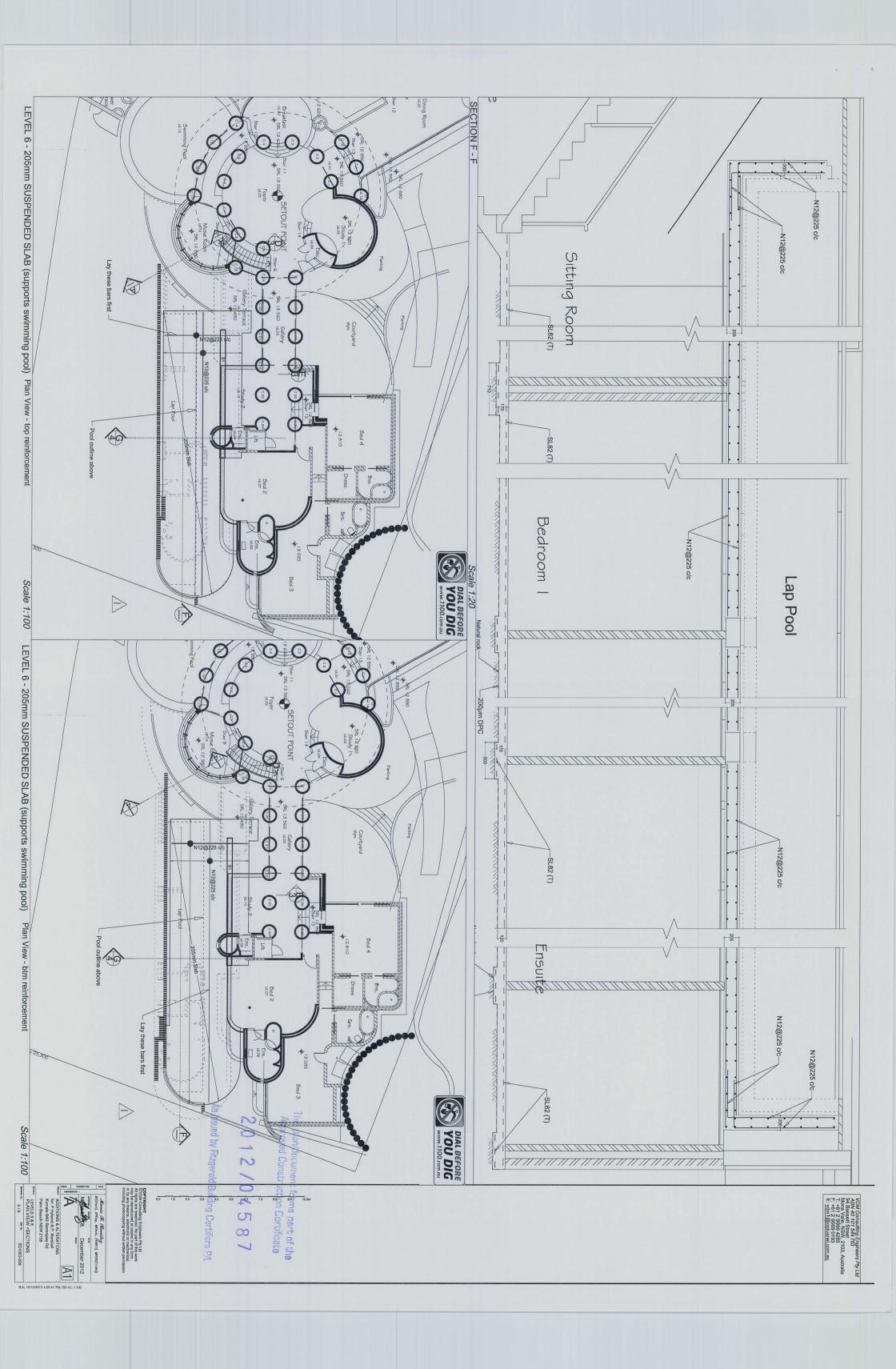
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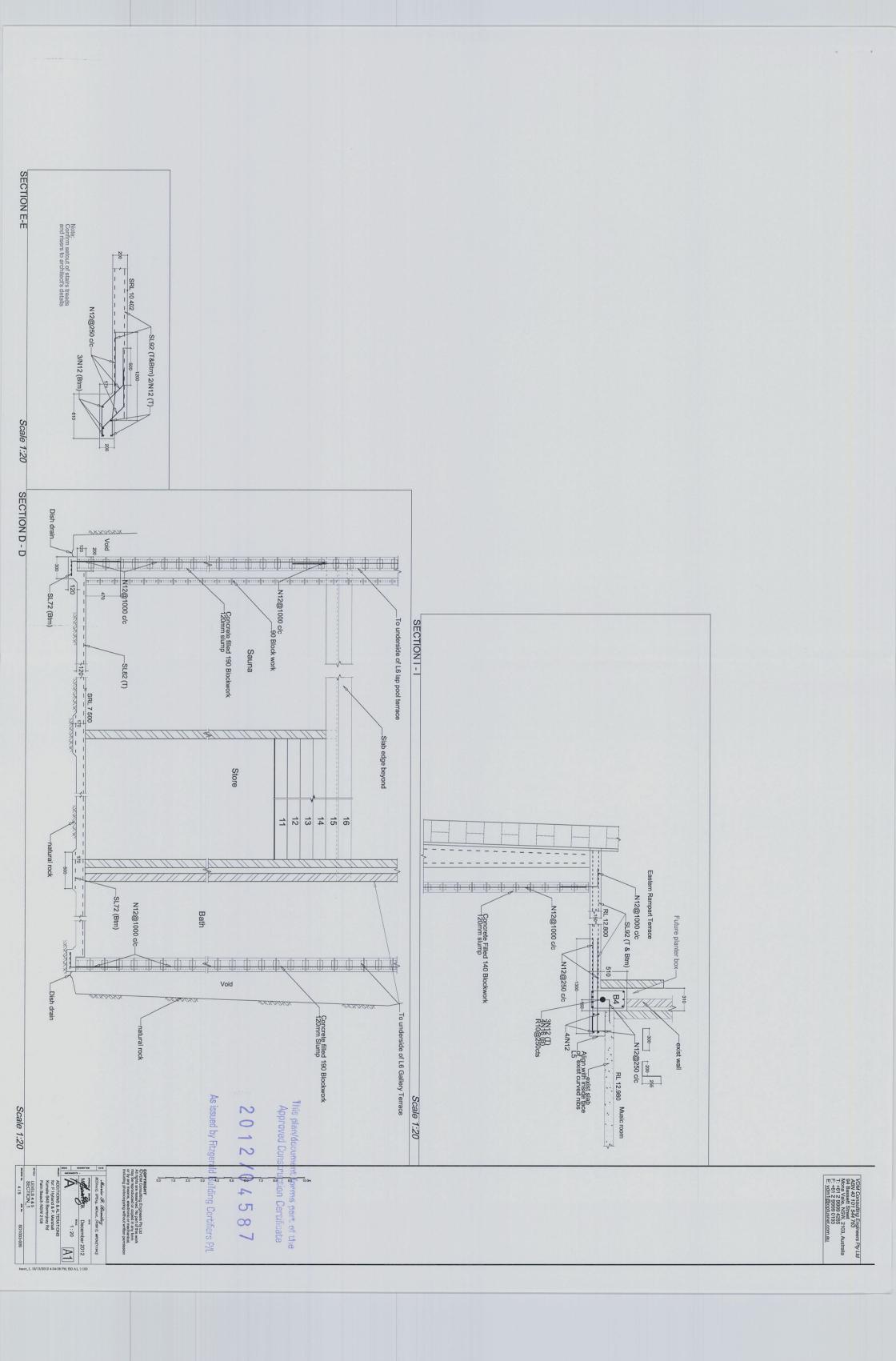
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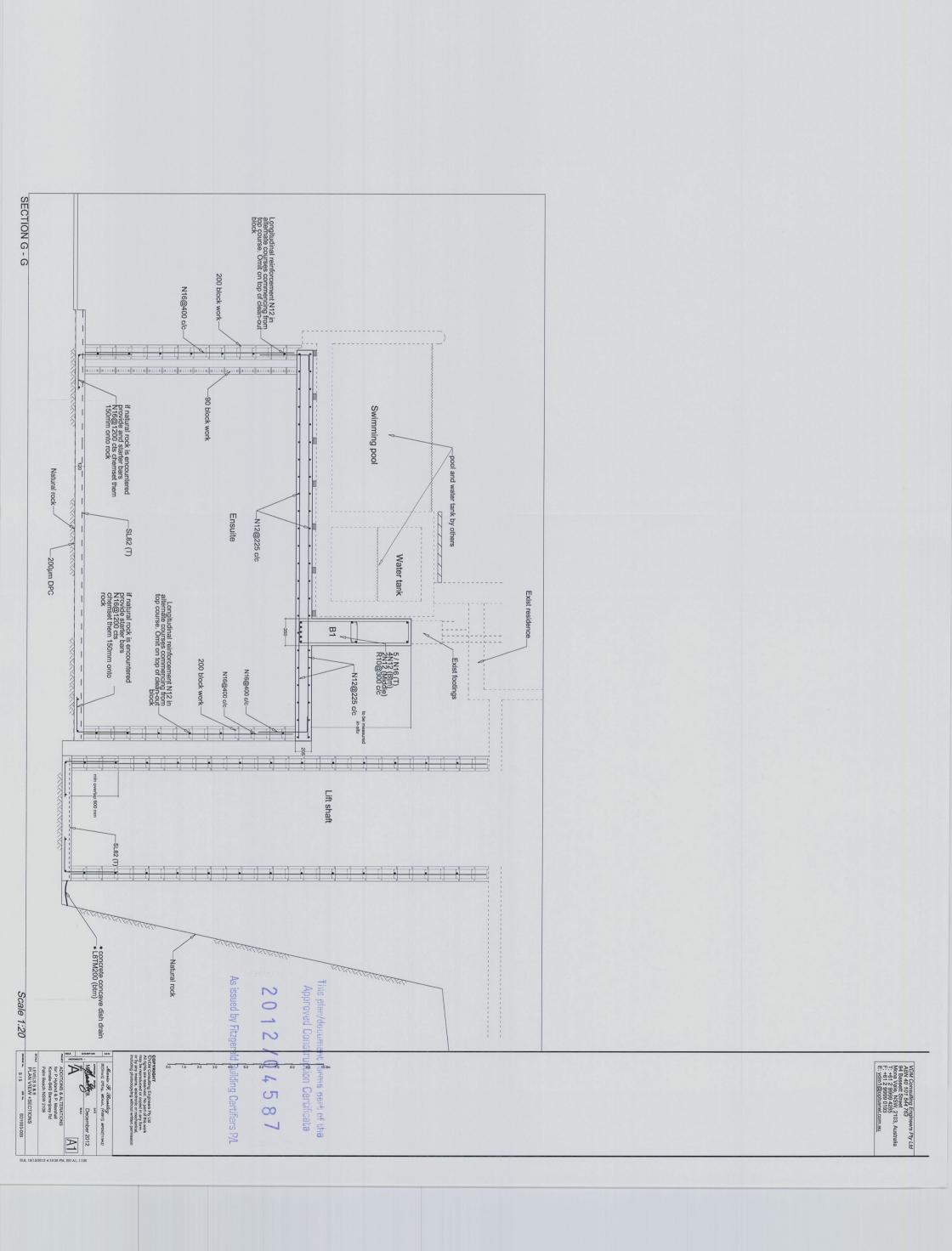
ADDITIONS & ALTERATIONS
for. P Hyland & P. Marshall
Kumale-949 Barrenjoey Rd
Palm Beach NSW 2108 CONSTRUCTION NOTES

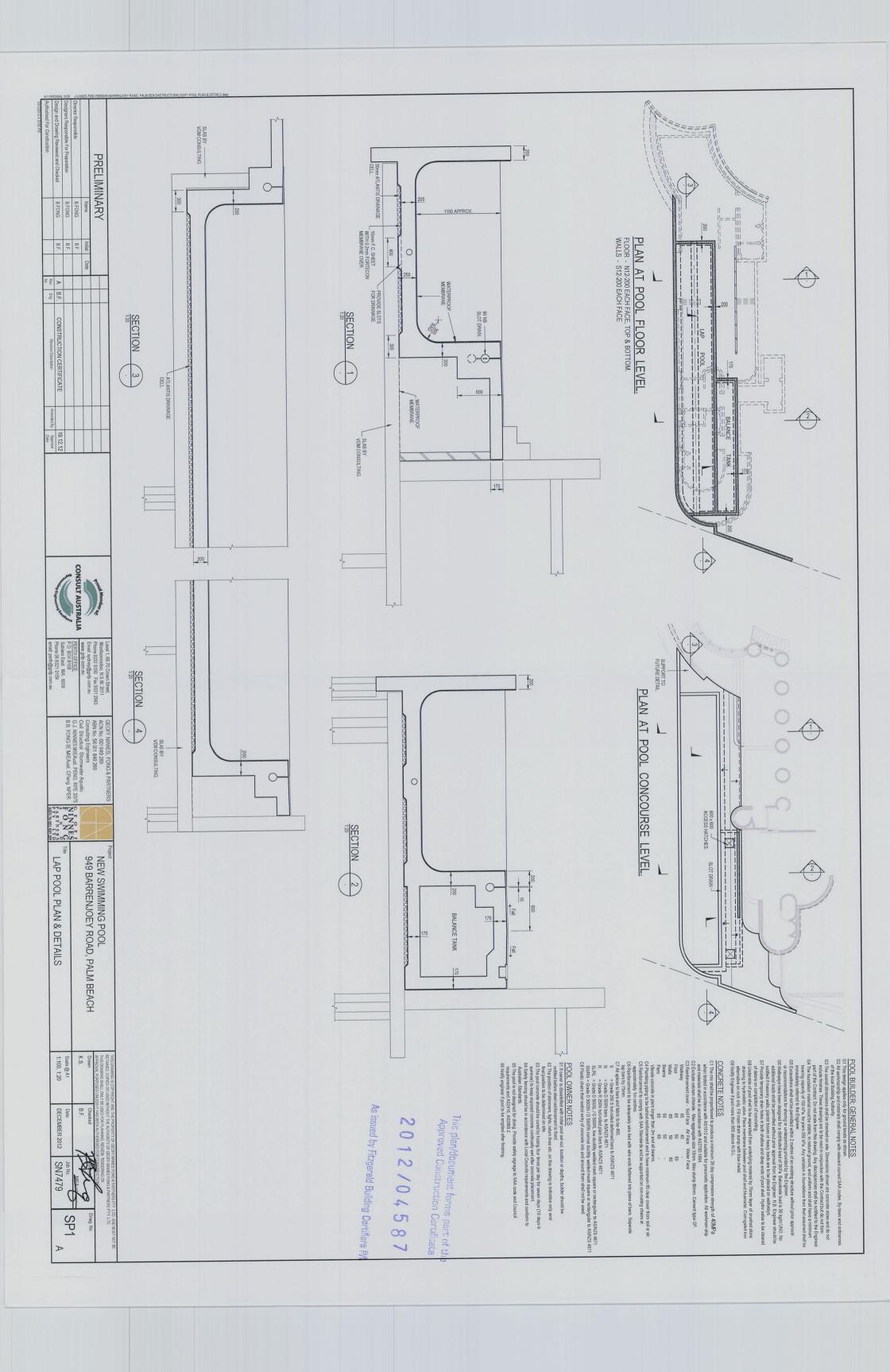
REGISTRED PROFESSIONAL ENGINEER
Manto F. Benitez, BE (Struct) MIESust., CPErg., (418917) MIPENZ (111943)
Iam appropriately qualified to certify this component of the project.
Ihereby state that these plans or details comply with the conditions for development consent provisions of the BCA (Building Code of Australia), AS1170.0, AS1170.1, AS1170.2, AS1684, AS3600 & AS4100

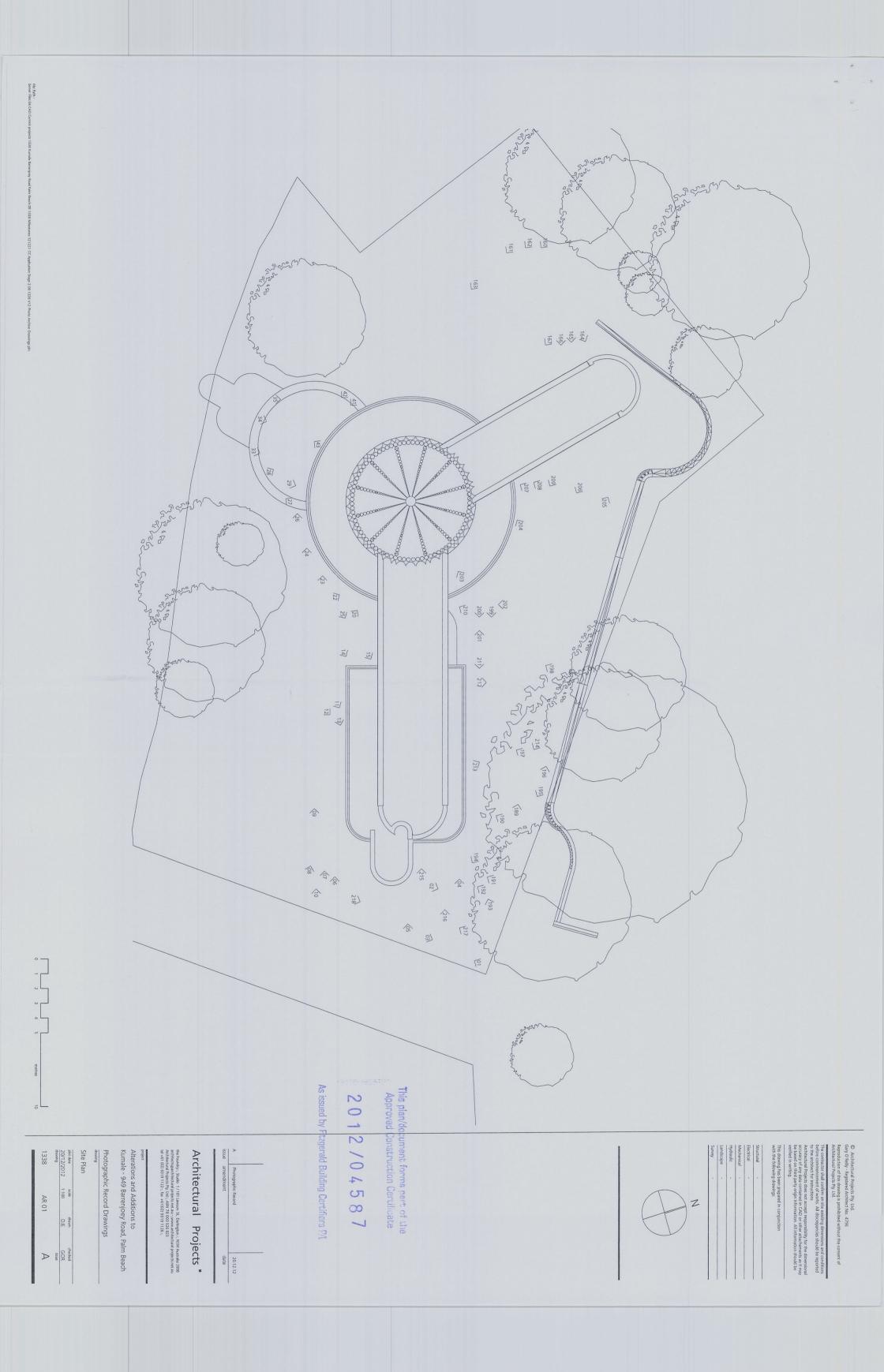


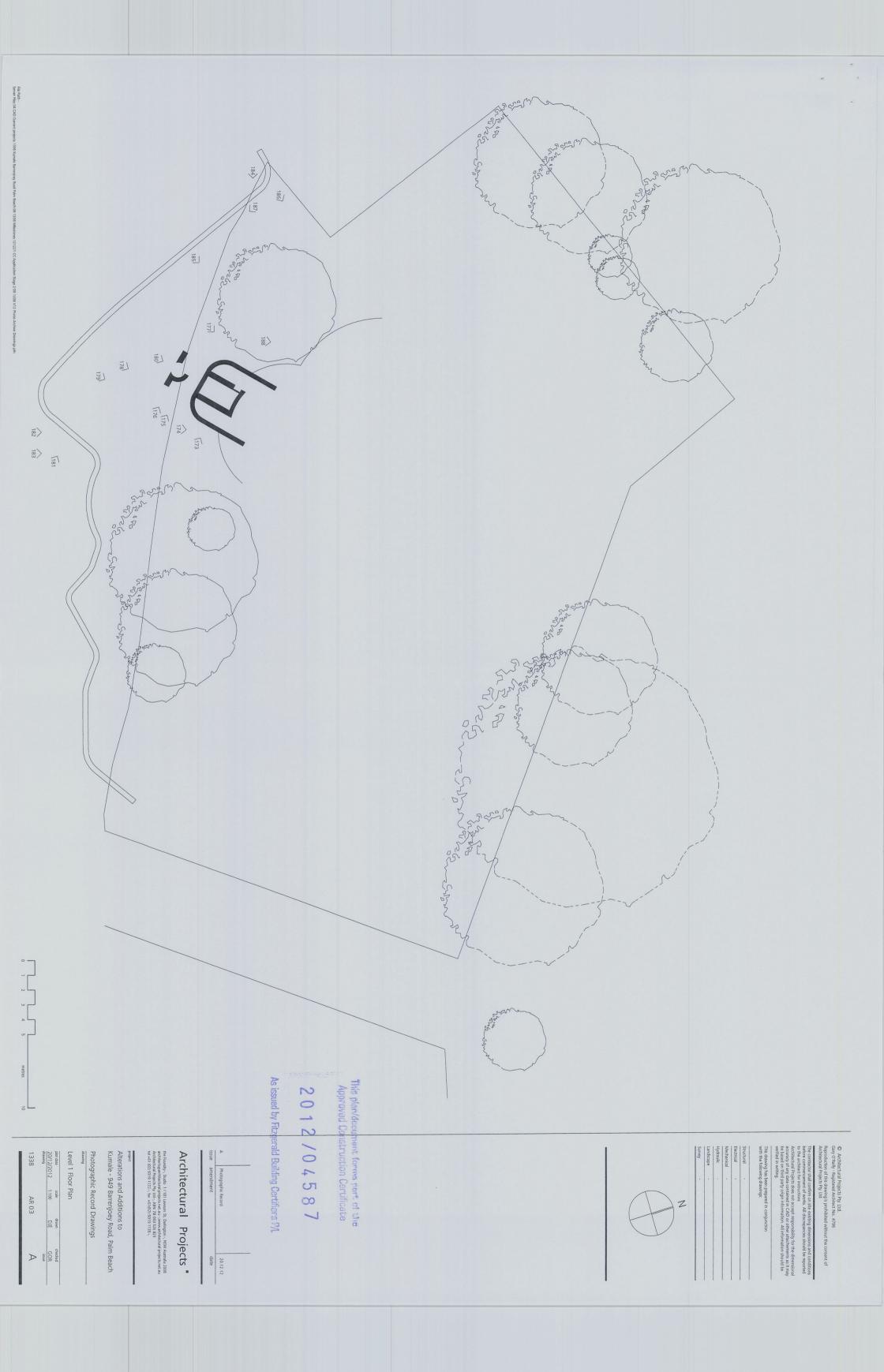


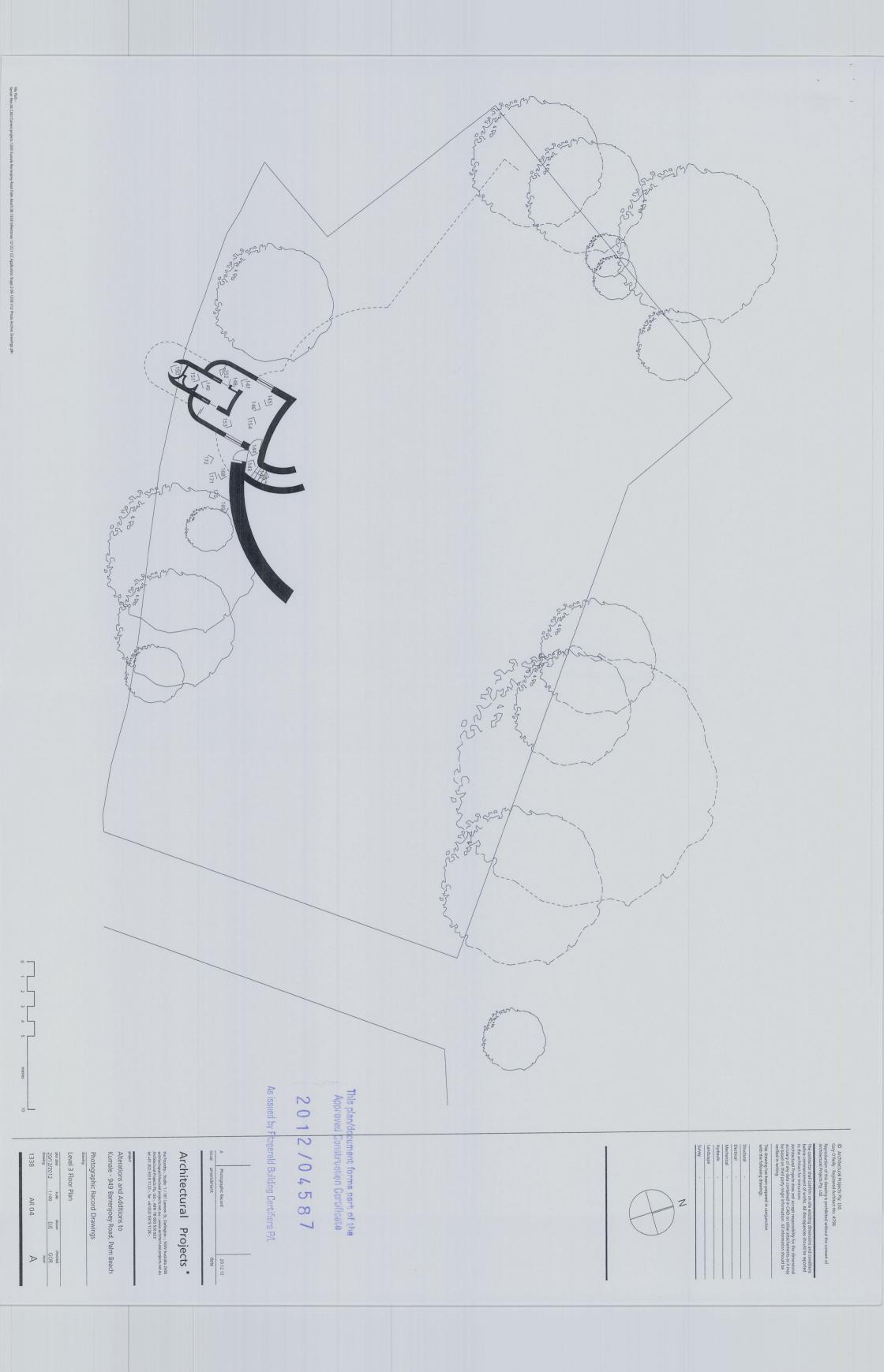


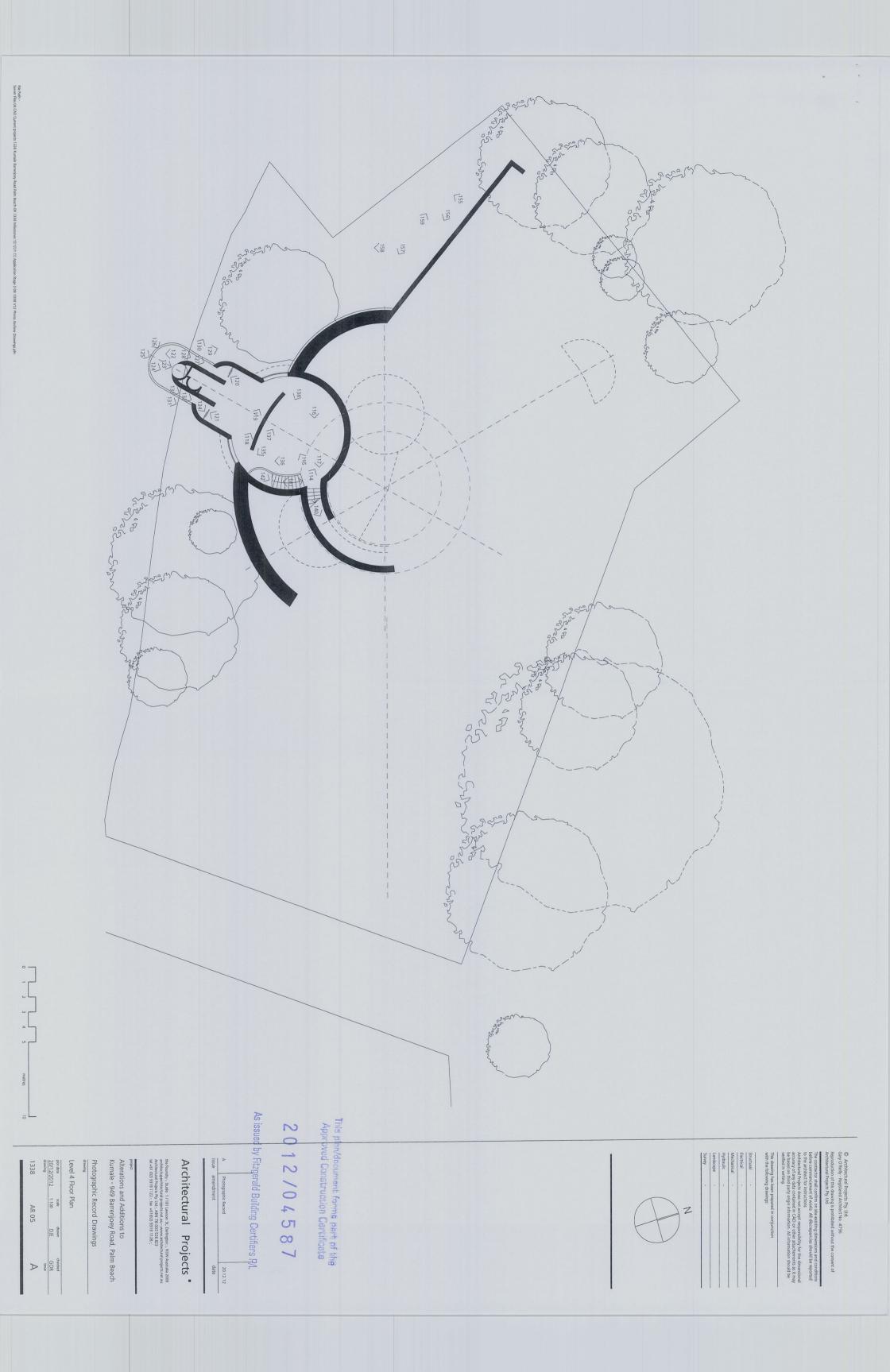


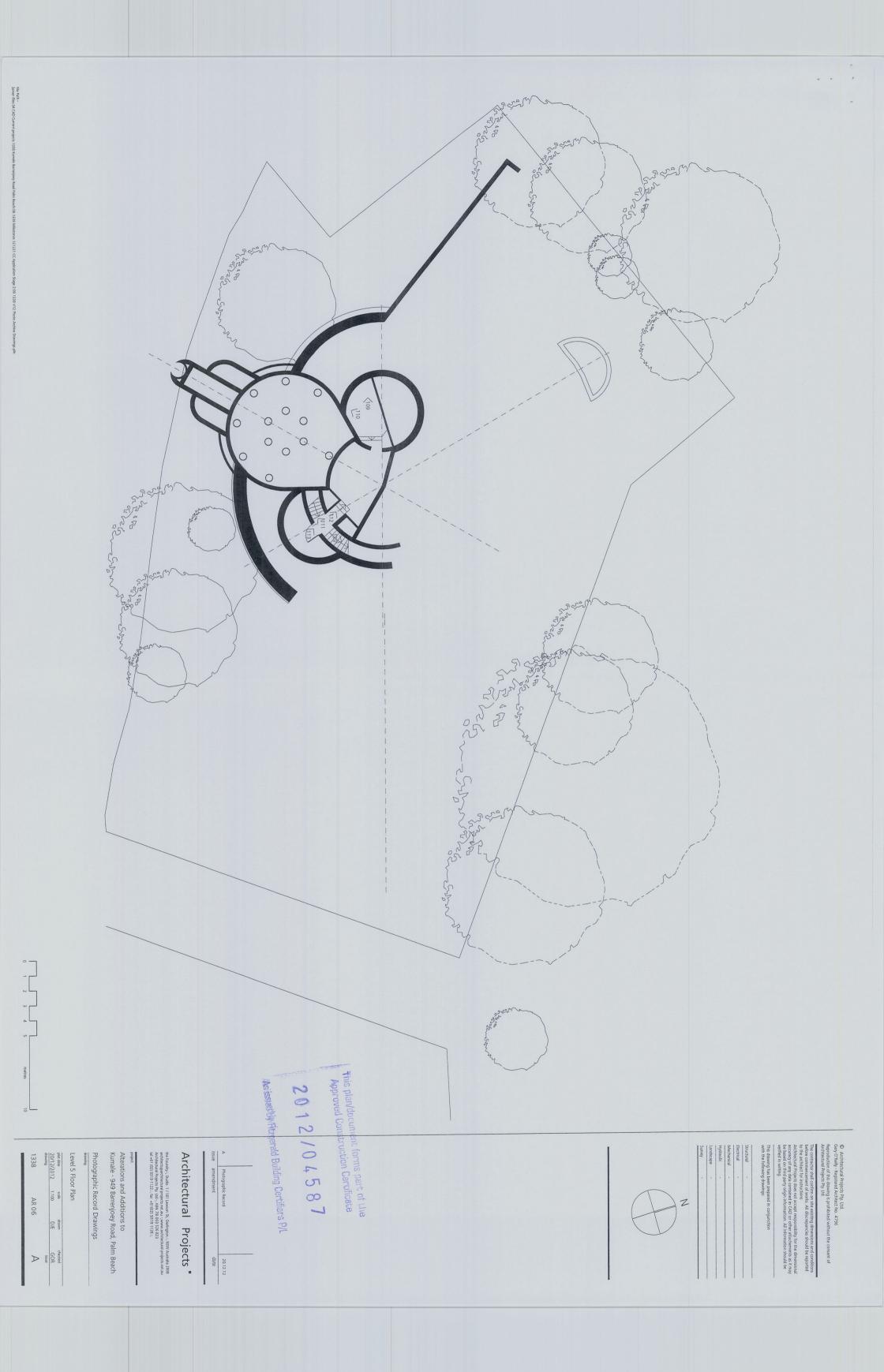


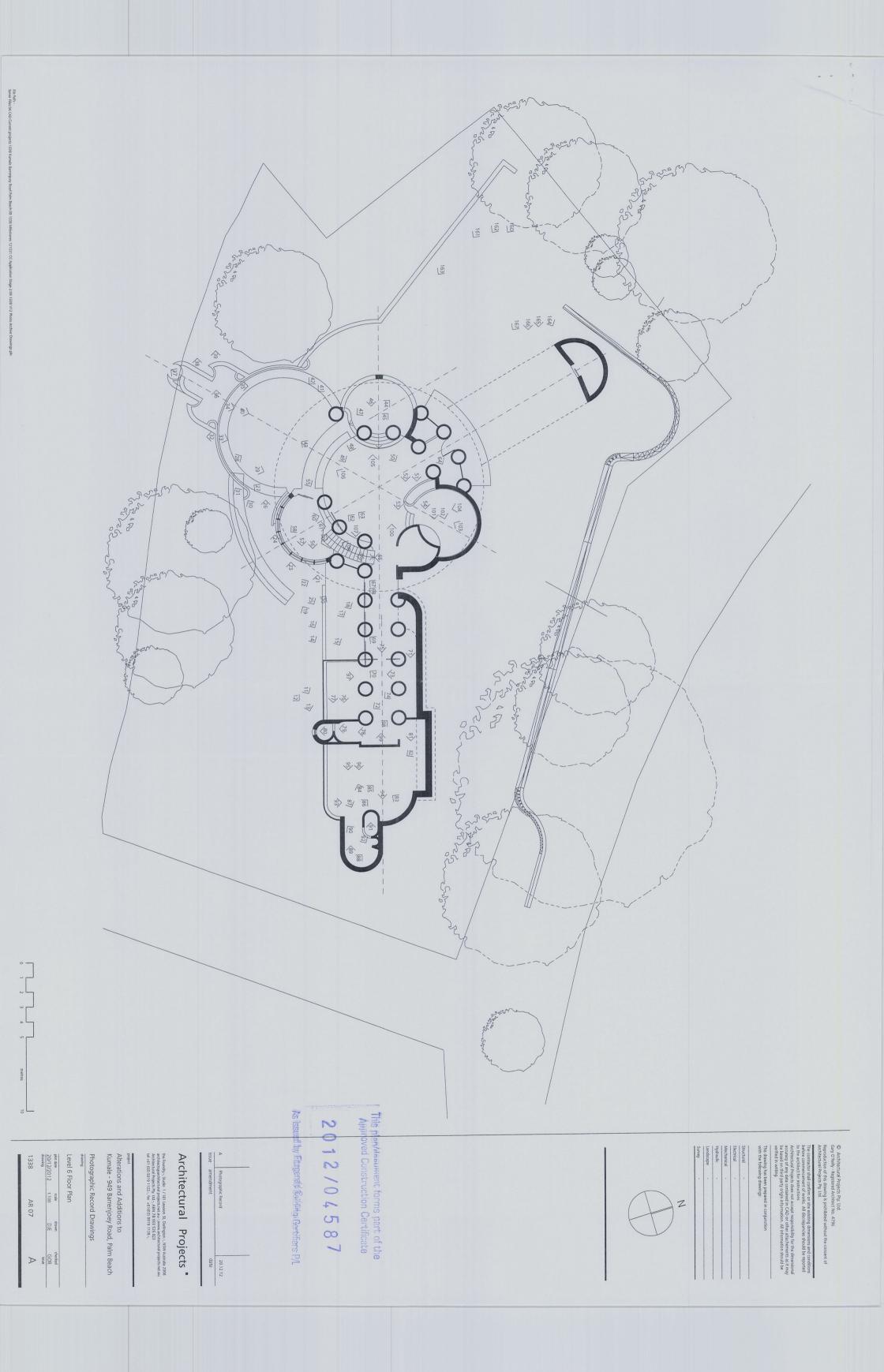


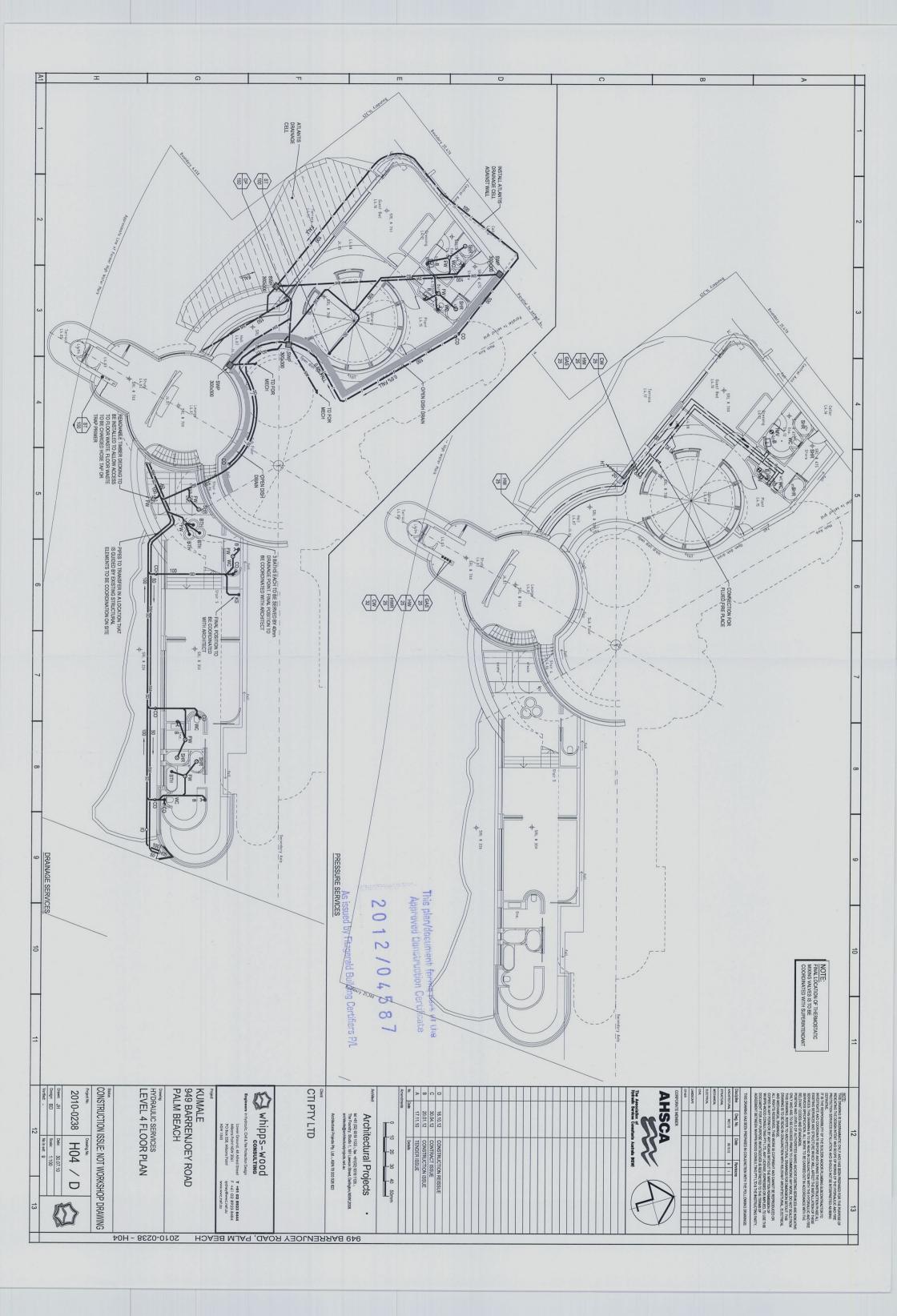


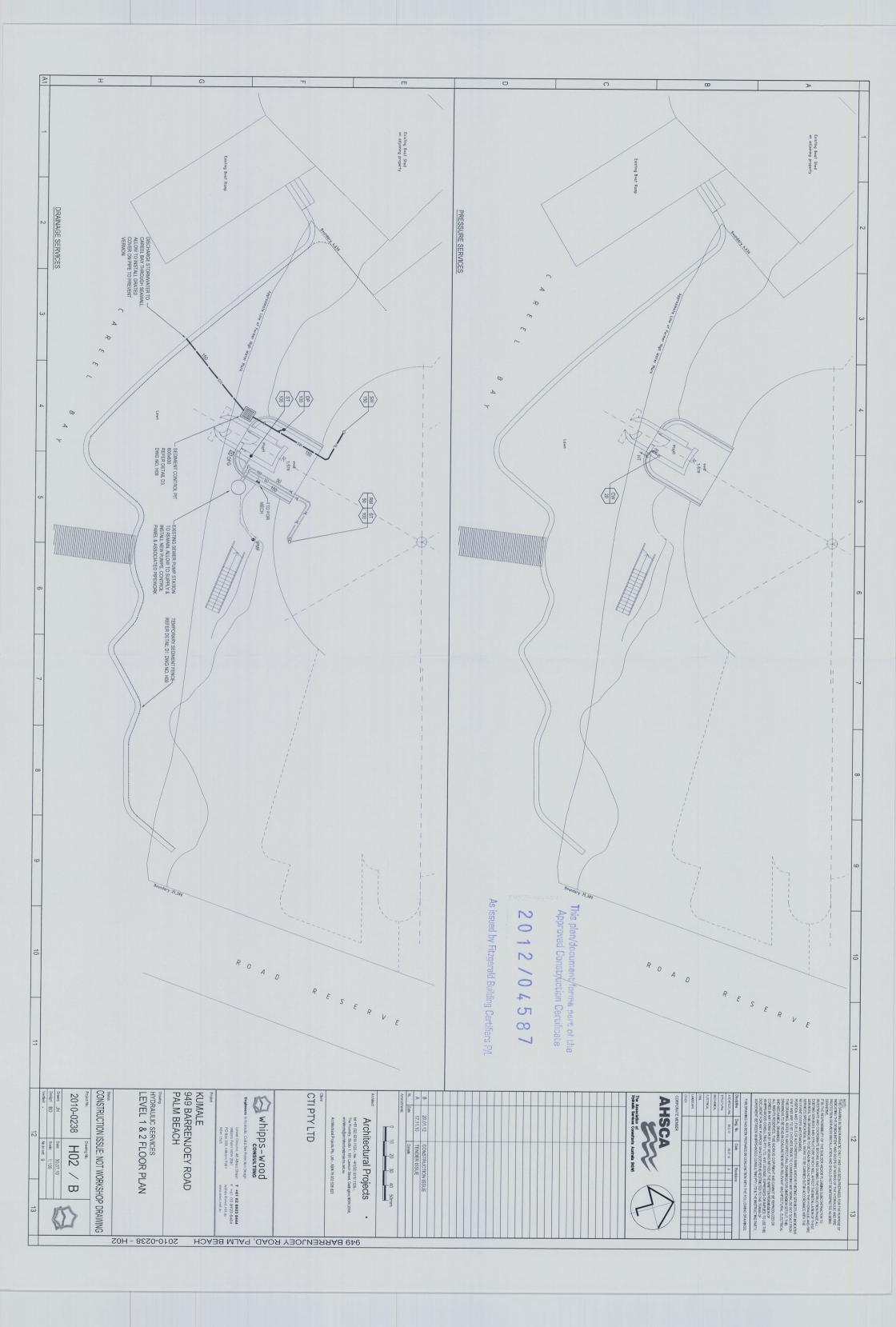












Alterations and Additions

Certificate number: A139410

Description of project

This certificate confirms that the proposed development will meet the NSW government's requirements for sustainability, if it is built in accordance with the commitments set out below. Terms used in this certificate, or in the commitments, is available at www.basix.nsw.gov.au Definitions" dated 29/9/2006 published by Department of Planning. This document have the meaning given by the document entitled "BASIX Alterations and Additions

To be valid, this certificate must be lodged within 3 months of the date of issue. Date of issue: Monday, 28, May 2012 Director-General | Planning & | Infrastructure

	Project address	
	Project name	B669 Palm Beach
W-9.	Street address	949 Barrenjoey Road Palm Beach 2108
	Local Government Area	Pittwater Council
-24	Plan type and number	Deposited Plan 541797
	Lot number	6
	Section number	0
	Project type	
	Dwelling type	Separate dwelling house
£	Type of alteration and addition	My renovation work is valued at \$50,000 or more, and includes a pool (and/or spa).

Certificate Prepared by (please complete before submitting to Council or PCA)

Name / Company Name: Ecocorp Consulting Pty Ltd

ABN (if applicable): 22075328255

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2012/04587

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page 1 / 7

Pool and Spa	Snow on DA Plans	CC/CDC CPlans & specs	Certified Check
Rainwater tank			
The applicant must install a rainwater tank of at least 1750 litres on the site. This rainwater tank must meet, and be installed in accordance with, the requirements of all applicable regulatory authorities.	_	<u> </u>	
The applicant must configure the rainwater tank to collect rainwater runoff from at least 50 square metres of roof area.		<	<
The applicant must connect the rainwater tank to a tap located within 10 metres of the edge of the pool.		<	<
Outdoor swimming pool			,
The swimming pool must be outdoors.	<	<	
The swimming pool must not have a capacity greater than 55 kilolitres.	<	<	<
The swimming pool must have a pool cover.		<	. <
The applicant must install a pool pump timer for the swimming pool.		<	. <
The applicant must install the following heating system for the swimming pool that is part of this development: gas.		<	<

Fixtures and systems Show on DA Plans Hot water The applicant must install the following hot water system in the development: gas instantaneous.		Show on CCC/CDC CPlans & specs	Certifier Check
Lighting			
The applicant must ensure a minimum of 40% of new or altered light fixtures are fitted with fluorescent, compact fluorescent, or light-emitting-diode (LED) lamps.		<	<
Fixtures			
The applicant must ensure new or altered showerheads have a flow rate no greater than 9 litres per minute or a 3 star water rating.		<	<u> </u>
The applicant must ensure new or altered toilets have a flow rate no greater than 4 litres per average flush or a minimum 3 star water rating.		<	<_
The applicant must ensure new or altered taps have a flow rate no greater than 9 litres per minute or minimum 3 star water rating.		<	

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Insulation requirements

			medium (solar absorptance 0.475 - 0.70)	ceiling: R0.43 (up), roof: 50 mm foil backed polystyrene board	flat ceiling, flat roof: concrete/plasterboard internal
				nil	external wall: cavity brick
			in-slab heating system	R1.00 (slab edge)	concrete slab on ground floor with in-slab heating system.
			Other specifications	Additional insulation required (H-value)	Construction
۲	<	<	in accordance with the specifications listed in uction is less than 2m2, b) insulation specified	The applicant must construct the new or altered construction (floor(s), walls, and ceilings/roofs) in accordance with the specifications listed in the table below, except that a) additional insulation is not required where the area of new construction is less than 2m2, b) insulation specified in solution of the construction where insulation already exists.	The applicant must construct the new or altered construction (floor(s), walls, and ceilings/roofs) in accordance with the specifications listed in the table below, except that a) additional insulation is not required where the area of new construction is less than 2m2, b) insulation specified is not required for parts of altered construction where insulation already exists.

D6.29 W 8.1 0 0 eave/verandah/pergola/balcony standard aluminium, single clear, (or >=900 mm U-value: 7.63, SHGC: 0.75)	D6.28 S 5.4 0 0 none standard aluminium, single clear, (or U-value: 7.63, SHGC: 0.75)	D4.17 S 20.1 0 0 none standard aluminium, single clear, (or U-value: 7.63, SHGC: 0.75)	W4.13 S 6 0 0 none standard aluminium, single clear, (or U-value: 7.63, SHGC: 0.75)	W4.12 S 3.7 0 none standard aluminium, single clear, (or U-value: 7.63, SHGC: 0.75)	Windows and glazed doors glazing requirements Window Orientation Area of Overshadowing Shading device Frame and glass type / door glass Height Distance no inc. (m) (m) (m2)	Pergolas with fixed battens must have battens parallel to the window or glazed door above which they are situated, unless the pergola also shades a perpendicular window. The spacing between battens must not be more than 50 mm.	Pergolas with polycarbonate roof or similar translucent material must have a shading coefficient of less than 0.35.	For projections described in millimetres, the leading edge of each eave, pergola, verandah, balcony or awning must be no more than 500 mm above the head of the window or glazed door and no more than 2400 mm above the sill.	Each window or glazed door with standard aluminium or timber frames and single clear or toned glass may either match the description, or, have a U-value and a Solar Heat Gain Coefficient (SHGC) no greater than that listed in the table below. Total system U-values and SHGCs must be calculated in accordance with National Fenestration Rating Council (NFRC) conditions.	The following requirements must also be satisfied in relation to each window and glazed door:	The applicant must install the windows, glazed doors and shading devices, in accordance with the specifications listed in the table below. Relevant overshadowing specifications must be satisfied for each window and glazed door.	Glazing requirements DA Pla
clear, (or	clear, (or	clear, (or	clear, (or	clear, (or		ne pergola also	•	ore than 500 mm	description, or, es and SHGCs			DA Plans
						<	. <		. <	, <		SCC/CDC Plans & specs
						<	\	, <	, <		, «	Check

BASIX Certificate number: A139410

_egend

In these commitments, "applicant" means the person carrying out the development.

development application is to be lodged for the proposed development). Commitments identified with a "," in the "Show on DA plans" column must be shown on the plans accompanying the development application for the proposed development (if a

certificate / complying development certificate for the proposed development. Commitments identified with a "

" in the "Show on CC/CDC plans & specs" column must be shown in the plans and specifications accompanying the application for a construction

development may be issued Commitments identified with a "," in the "Certifier check" column must be certified by a certifying authority as having been fulfilled, before a final occupation certificate for the

Architectural Projects*

1338 – Kumale, 949 Barrenjoey Road, Palm Beach Archival Report Date 20 December 2012

> This plan/decument forms part of the Approved Genstruction Corollisate

2012/04587

As issued by Fitzgerald Building Certifiers PA

'Architectural Projects"

Architectural Projects Pty Ltd.–, ABN 78 003 526 823.–, www.architectural projects.net.au tel +61 (0)2 9319 1122.–, fax +61 (0)2 9319 1128.–, architects@architectural projects.net.au the Foundry, Studio 1/181 Lawson Street, Darlington NSW Australia 2008

Document

Project:

Kumale, 949 Barrenjoey Road, Palm Beacch

Project No: 1338

Document	Control			
Version	Date	Document		
1		Status	Archival Report	
	-	Author	Jennifer Hill Director Registered Architect 4811	
		Verification	Gary O'Reilly Director, Registered Architect 4196	

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1. INTRODUCTION

1.1. PROJECT DESCRIPTION

This archival Photographic Record was prepared by Architectural Projects Pty Limited, Architects for Paul Hyland and Pamela Marshall in December 2012 to fulfil Development Application Conditions of Consent No. 175/12

The record includes sufficient views to show the detail of the original building and its setting. Views of the interior have been provided in accordance with Heritage Council guidelines.

1.2. LOCATION OF SITE AND DESCRIPTION

This document relates to the site of 949 Barrenjoey Road, Palm Beach defined by Lot 6, DP 541797. Fabric from the original house is the focus of this Record.

1.3. AUTHORSHIP

This recording was prepared by Dane Everett and Jennifer Hill of Architectural Projects Pty Limited.

1.4. SUPPLEMENTARY SOURCES

Architectural Projects Pty Ltd prepared a Heritage Report for the site in 949 Barrenjoey Road, Palm Beach, for Paul Hyland and Pamela Marshall.

The following sources are also relevant to the site:

Jahn, Graham, Sydney Architecture, Watermark Press, Sydney 1997

Brian & Barbara Kennedy, Sydney and Suburbs – A History and Description, AH & AW Reid Pty Ltd, 1982

Frances Pollon, The Book of Sydney Suburbs, Angus & Robertson, 1988

Irving, R. and Reynolds, P. A Pictorial Guide to Identifying Australian Architecture, 1989

Sands Directory

Published Books Bingham Hall, P. (2000) Architecture Bali, Pesaro Publications.

Drew, Philip (1988) 'Peter Muller', in Muriel Emanuel (ed.), Contemporary Architects, St Martins, New York: 679-681.

Irving, R., Kinstler, J. and Dupain, M., (1982) Fine Houses of Sydney, Sydney.

 $\label{eq:Muller} \textbf{Muller, Peter (1976) The Esoteric Nature of Griffin's Design for Canberra, Canberra.}$

Reid, Paul (2002) Canberra following Griffin: a design history of Australia's national capital, National Archives, Canberra.

Taylor, Jennifer (1972) An Australian Identity: houses for Sydney 1953-63, Research Paper, Department of Architecture, University of Sydney.

Walkley, G. (1976) The Louis Laybourne Smith School of Architecture and Building, South Australian Institute of Technology, Adelaide.

Periodicals

'At Castlecrag', Architecture in Australia, July/September 1955.

'Craftbuilt Home French's Forest', Architecture in Australia, September 1961.

'House at Pittwater, NSW', Architecture in Australia, October/December 1958.

'House at Whale Beach, NSW', Architecture in Australia, January/March 1956.

'Molinari House' Architecture and Arts, July 1954.

'Peter Muller Profile', Vogue Living, November 1991.

'Place of Angels', Departures, February 1991.

'Richardson House', Architecture and Arts, August 1956.

'Williams house', Vogue Living November 1991.

Architectural Projects Pty Ltd: 1338.07.01.01.R7.201212.dox 2012-12-21 5:30 PM

Barker, Penelope (2000) 'Inner sanctum', Belle, December/January: 142-145.

Beng, Tan Hock (1991) 'Peter Muller. Regional expressionist', Interiors Quarterly, December 1991 – February 1992: 44.

Fung, Stanislaus (1985) 'The "Sydney School"?', Transition, July 1985, vol.4, no.3: 38-43.

Jackson, Davina (1991) 'Screen piece', Vogue Living, vol.25, no.9, November: 96-101.

Jackson, Davina (1991) 'Building on a dream', Vogue Living, vol.25, no.1, February: 20-21.

Keens, Leta (2005) 'Signatures of serenity', Belle, March: 88-93.

Keens, Leta (2005) 'Edge of Infinity', Belle, August/September. 148-153.

Muller, Peter (1955) 'Editorial', Architecture and Arts, December: 19.

Saunders, David (1971) in Art and Architecture, June 1971.

1.5. METHOD OF DOCUMENTATION

Methodology for the recording is based on the Heritage Branch, NSW Department of Planning Publications "Photographic Recording of Heritage Items Using Film or Digital Capture" and "How to Prepare Archival Records of Heritage Items". The following notes relate the steps taken:

Photography was carried out from the general to the specific. Context photographs and site photography show the relationship of building to site. The exterior and then the interior were photographed to document each elevation, each room and indicate views of and through the building. Further photographs of equipment and notable details were taken.

The photographer was equipped with a 35mm digital SLR camera and a plan of the site on which the structure is shown. Photographs are taken at the highest quality, recorded in RAW format and converted to TIFF format.

Photographs are recorded in Photographic Catalogue Sheets and Photographic Base Plans (Section 2 of this report).

Thumbnail image sheets, DC-R / DVD of electronic image files (TIFF) and one set of A6 prints are provided.

The photos have been organised by Reference No. and cross referenced to catalogue sheets.

Processing, printing and mounting were done to archival specifications.

All storage is in archival sleeves.

1.6. LIMITATIONS OF THE PHOTOGRAPHIC RECORD

The recording was carried out while the buildings were vacated.

Some removal of finishes had occurred prior to record.

1.7. CONFIRMATION OF COPYRIGHT

The images contained within this record are copyright Architectural Projects Pty Limited, Architects. Any use should be with the attribution "Architectural Projects Pty Limited, Architects, 2012".

The images are provided for use in research for Heritage purpose. Copy under the general conditions of copyright for research purposes is not permitted.

Exhibition or Copying in any other medium or publication for benefit or profit by persons, companies or organisations is not permitted without release in writing from Architectural Projects Pty Limited, Architects.

1.8. OUTLINE HISTORY OF SITE

Designed in 1955, the "Richardson House" is unlike any other Sydney house of the period. Inspired by the later works of Frank Lloyd Wright, "it remains today a splendid and isolated example, on the edge, as it were, of the organic movement" - Robert Irving & John Kinstler, "Fine Houses of Sydney" (Sydney 1982) p.160.

Peter Muller's architectural concept for the Richardson house, as with all his designs, began with the site: a small precipitous slice of bushland between Barrenjoey Road and Pittwater with extensive views. In Muller's words: "It was a completely bald, empty, rocky ledge that faced west straight into deep water". The house was sited on the edge of the diff face, some seven metres below the road and 15 metres above the water. "So it's perched there like a crag on a rock" — Peter Muller. The elevator shaft was intended to link the main living area with the seaplane hanger on the waterfront. The circular geometry for the house was inspired by an existing and sizeable stone water tank on the site - which was retained as a support for the car port.

The Richardson house is an expression of ambiguous exterior/interior relationships. The house can be extensively opened up to sunny terraces and cooling sea breezes through a series of full height, bronze framed curved, sliding glass panels that recess into hollow director perimeter columns. The dichotomy of interior/exterior relationships is further strengthened by the director swimming pool which extends from the terrace outside to become part of the internal living area under a walkway.

1.9. STATEMENT OF CULTURAL SIGNIFICANCE

The building has aesthetic significance as an outstanding example of a residence by the architect Peter Muller and for its landmark qualities as a prominent house on a prominent waterfront site.

The Richardson house is a rare example of a highly esoteric organic building idiom which, although seemingly derivative, was at the same time powerful, delicate and extraordinarily appropriate for its Pittwater setting.

As noted by DoCoMoMo the building is exceptional for the quality of the surviving original exterior and interior finishes and fittings. This quality is supported by the existence of a comprehensive collection of photographs by arguably Australia's foremost architectural photographer, Max Dupain.

The Richardson House is an important example of the influence of the late work of American architect, Frank Lloyd Wright, on the work of Australian architects as well as being an excellent example of a residence constructed on an extremely difficult site, taking advantage of that site as an essential part of the building's aesthetic.

2. PHOTOGRAPHIC SURVEY

2.1. PHOTOGRAPHIC BASE PLANS

Figure 2.1.1

949 Barrenjoey Road, Palm Beach

Context, Site, and Exterior Elevational Photographs and Ground Floor Plan

2.2. DIGITAL IMAGE CATALOGUE SHEETS

Site Name / Address:	949 Barrenjoey Road		
	Palm Beach	·-•	
Photographer:	Dane Everett	Date: 9 Dec	cember 2009
Camera:	Sony Cyber shot DSC-T200	Job No:	1338
Digital:	Description: Digital	Processing:	Archival
Supporting Plans	1338 AR01(A), AR03(A), AR04	(A), AR05(A), A	AR06(A), AR07(A)

AREA	DESCRIPTION	РНОТО
Level 6	Top of driveway, looking South	001.DSC07014
Level 6	Previously constructed driveway	002.DSC03053
Level 6	Previously constructed driveway	003.DSC03054
Level 6	Previously constructed driveway	004.DSC03055
Level 6	East Wing, Looking West	005.DSC03056
Level 6	East Wing, Looking South	006.DSC03057
Level 6	East wing, Looking West	007.DSC03058
Level 6	East Wing, Looking West	008.DSC03059
Level 6	East Wing, Looking West	009.DSC03060
Level 6	East Terrace, Looking West	010.DSC03061
Level 6	East Wing Detail	011.DSC03062
Level 6	East Wing Detail	012.DSC03063
Level 6	East Wing Detail	013.DSC03064
Level 6	Gallery Terrace, Looking North	014.DSC03065
Level 6	Gallery Terrace Detail	015. DSC03066
Level 6	Gallery Terrace, Looking East	016.DSC03067
Level 6	Gallery Terrace, Looking East	017.DSC03068
Level 6	Gallery Terrace Glazing	018.DSC03069
Level 6	East Rampart Terrace, Looking West	019.DSC03070
Level 6	Gallery Terrace Detail	020.DSC03071
Level 6	Gallery Terrace Detail	021.DSC03072
Level 6	Gallery Terrace Detail	022.DSC03073
Level 6	East Rampart Terrace, Looking West	023.DSC03074
Level 6	East Rampart Terrace, Looking West	024.DSC03075
Level 6	East Rampart Terrace, Looking North	025.DSC03076
Level 6	Swimming Pool, Looking West	026.DSC03077

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AREA	DESCRIPTION	PHOTO
Level 6	Swimming Pool, Looking South	027.DSC03078
Level 6	Swimming Pool, Looking West	028.DSC03079
Level 6	Swimming Pool, Looking North	029.DSC03080
Level 6	Swimming Pool Handrail Detail	030.DSC03081
Level 6	Swimming Pool Handrail Detail	031.DSC03082
Level 6	Tower, Looking South	032.DSC03083
Level 6	Swimming Pool, Looking East	033.DSC03084
Level 6	Swimming Pool, Looking North	034.DSC03085
Level 6	Swimming Pool, Looking West	035.DSC03086
Level 6	Swimming Pool, Handrail Detail	036.DSC03087
Level 6	Lift Shaft	037.DSC03088
Level 1	Boat Shed, Looking West	038.DSC03089
Level 1	Boat Shed, Looking West	039.DSC03090
Level 6	Swimming Pool, Looking North	040.DSC03091
Level 6	Swimming Pool Glazing Detail	041.DSC03092
Level 6	Swimming Pool Bridge	042.DSC03093
Level 6	Swimming Pool Base	043.DSC03094
Level 6	Breakfast Room, Looking West	044.DSC03095
Level 6	Breakfast Room, Looking West	045.DSC03096
Level 6	Breakfast Room, Looking East	046.DSC03097
Level 6	Breakfast Room, Looking East	047.DSC03098
Level 6	Dome Roofing	048.DSC03099
Level 6	Dome Roofing	049.DSC03100
Level 6	Dome Roofing	050.DSC03101
Level 6	Dome Roofing	051.DSC03102
Level 6	Dome Roofing	052.DSC03103
Level 6	Dome Roofing	053.DSC03104
Level 6	Study, Looking North	054.DSC03105
Level 6	Music Room Glazing	055.DSC03106
Level 6	Music Room Glazing	056.DSC03107
Level 6	Music Room Glazing	057.DSC03108
Level 6	Music Room Glazing Detail	058.DSC03109
Level 6	Music Room, Looking North	059.DSC03110
Level 6	Music Room Door Detail	060.DSC03111
Level 6	Music Room Door Detail	061.DSC03112
Level 6	Music Room Door Detail	062.DSC03113
Level 6	Music Room Door Detail	063.DSC03114
Level 6	Foyer Entry, Looking North	064.DSC03115
Level 6	Stair	065.DSC03116
Level 6	Stair	066.DSC03117
Level 6	Gallery Door Detail	067.DSC03118
Level 6	Gallery Door Detail	068.DSC03119

AREA	DESCRIPTION	РНОТО
Level 6	Gallery Door Detail	069.DSC03120
Level 6	Gallery Door Detail	070.DSC03121
Level 6	Outer Gallery	071.DSC03122
Level 6	Study, Looking East	072.DSC03123
Level 6	Gallery Ceiling	073.DSC03124
Level 6	Gallery Ceiling	074.DSC03125
Level 6	Gallery Ceiling	075.DSC03126
Level 6	Gallery Ceiling	076.DSC03127
Level 6	Gallery Ceiling	077.DSC03128
Level 6	Gallery Ensuite, Looking South	078.DSC03130
Level 6	Gallery Ensuite, Looking South	079.DSC03131
Level 6	Gallery Ensuite, Looking South	080.DSC03132
Level 6	Bedroom 2, Looking East	081.DSC03133
Level 6	Bedroom 2, Looking East	082.DSC03134
Level 6	Bedroom 2, Looking South	083.DSC03135
Level 6	Ceiling Detail	084.DSC03136
Level 6	Ceiling Detail	085.DSC03137
Level 6	Ceiling Detail	086.DSC03138
Level 6	Bedroom 2 Ensuite, Looking East	087.DSC03139
Level 6	Bedroom 2 Ensuite	088.DSC03140
Level 6	Bedroom 2 Ensuite	089.DSC03141
Level 6	Bedroom 2 Ensuite Detail	090.DSC03142
Level 6	Bedroom 2 Ensuite Detail	091.DSC03143
Level 6	Bedroom 2 Ensuite, Looking East	092.DSC03144
Level 6	Bedroom 2, Looking North	093.DSC03146
Level 6	Bedroom 2, Looking East	094.DSC03148
Level 6	Bedroom 2 Ceiling Detail	095.DSC03151
Level 6	Bedroom 2 Ceiling Detail	096.DSC03152
Level 6	. Gallery Ceiling Detail	097.DSC03160
Level 6	Gallery Ceiling Detail	098.DSC03161
Level 6	Gallery Ceiling Detail	099.DSC03162
Level 6	Study, Looking North	100.DSC03163
Level 6	Study Fireplace	101.DSC03164
tevel 6	Study, Looking East	102.DSC03165
Level 6	Study, Looking South	103.DSC03166
Level 6	Study, Looking South	104.DSC03167
Level 6	Breakfast Room Stair	105.DSC03168
Level 6	Foyer, Looking South	106.DSC03169
Level 6	Stair Planter Detail	107.DSC03170
Level 6	Stair Planter Detail	108.DSC03171
Level 5	Store, Looking West	109.DSC03175
Level 5	Store, Looking South	110.DSC03176

AREA	DESCRIPTION	РНОТО
Level 5	Stair to Level 4	111.DSC03 <u>177</u>
Level 5	Stair to Laundry .	112.DSC03178
Level 5	Stair to Laundry	113.DSC03179
Level 4	Lounge, Looking West	114.DSC03180
Level 4	Lounge, Looking South	115.DSC03181
Level 4	Lounge, Looking East	116.DSC03183
Level 4	Lounge Stair	117.DSC03184
Level 4	Lounge, Looking East	118.DSC03185
Level 4	Lounge, Looking West	119.DSC03186
Level 4	Lounge Terrace	120.DSC03187
Level 4	Lounge Terrace	121.DSC03188
Level 4	Lounge Terrace	122.DSC03189
Level 4	Lift Shaft	123.DSC03191
Level 4	Lift Shaft	124.DSC03192
Level 4	Lift Shaft	125.DSC03193
Level 4	Lift Shaft	126.DSC03194
Level 4	Tower, Looking North	127.DSC03195
Level 4	Tower, Looking North	128.DSC03196
Level 4	West Rampart	129.DSC03198
Level 4	West Terrace	130.DSC03199
Level 3	East Rampart	131.DSC03200
Level 4	Lounge Terrace	132.DSC03202
Level 4	Tower, Looking North	133.DSC03203
Level 4	Lounge Terrace Door Detail	134.DSC03205
Level 4	Ceiling Detail	135.DSC03207
Level 4	Lounge, Looking South	136.DSC03208
Level 4	Lounge, Looking West	137.DSC03209
Level 4	Lounge, Looking East	138.DSC03210
Level 4	Lounge Stair	139.DSC03211
Level 4	Lounge Stair	140.DSC03213_
Level 3	Stair	141.DSC03214_
Level 3	Stair	142.DSC03216
Level 3	Stair Ceiling	143.DSC <u>03218</u>
Level 3	Stair Foyer	144.DSC03220
Level 3	Bedroom 3, Looking East	145.DSC03223
Level 3	Bedroom 3 Ceiling Detail	146.DSC03224
Level 3	Bedroom 3, Looking south	147.DSC03226
Level 3	Bedroom 3 Ensuite, Looking East	148.DSC03227
Level 3	Bedroom 3 Ensuite, Looking South	149.DSC03228
Level 3	Lift Sharft	150.DSC03229
Level 3	Bedroom 3 Ensuite, Looking North	151.DSC03231
Level 4	Bedroom 3, Looking South	152.DSC03232

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AREA	DESCRIPTION	РНОТО
Level 4	Bedroom 3, Looking North	153.DSC03233
Level 4	Bedroom 3, Looking West	154.DSC03234
Level 4	West Terrace, Looking South	155.DSC03237
Level 4	West Terrace, Looking East	156.DSC03238
Level 6	West Terrace, Looking East	157.DSC03239
Level 6	West Terrace, Looking South	158.DSC03240
Level 6	West Terrace, Looking West	159.DSC03241
Level 6	West Terrace, Looking East	160.DSC03244
Level 6	West Terrace, Looking East	161.DSC03246
Level 6	West Terrace, Looking North East	162.DSC03247
Level 6	West Terrace, Looking East	163.DSC03249
Level 6	Carport, Looking North	164.DSC03250
Level 6	Carport Roof Detail	165.DSC03251
Level 6	Carport Roof Detail	166.DSC03252
Level 6	Carport Roof Detail	167.DSC03253
Level 3	East Rampart Stair	168.DSC03255
Level 3	East Rampart Stair	169.DSC03256
Level 3	East Rampart Stair	170.DSC03257
Level 3	East Rampart Detail	171.DSC03259
Level 3	East Rampart Detail	172.DSC03260
Level 1-Level 66	Tower	173.DSC03263
Level 1-Level 66	Tower	174.DSC03264
Level 1	Tower	175.DSC03265
Level 1	Tower	176.DSC03266
Level 1	Tower	177.DSC03267
Level 3-Level 6	East Rampart	178.DSC03269
Level 3-Level 6	East Rampart	179.DSC03270
Level 1-Level 6	Tower	180.DSC03271
Level 1	Seawall, Looking West	181.DSC03272
Level 1-Level 6	Tower	182.DSC03273
Level 6	East Wing, Looking North	183.DSC03274
Level 1-Level 6	Tower, Looking East	184.DSC03293
Level 4-Level 6	West Rampart, Looking North	185.DSC03294
Level 4	West Wing, Looking North	186.DSC03295
Level 1	Seawall, Looking East	187.DSC03296
Level 1	Underpinning to bed rock	188.DSC03298
Level 6	Previously constructed driveway, Looking West	189.DSC03299
Level 6	East Wing Roof	190.DSC03300
Level 6	East Wing Roof	191.DSC03301
Level 6	East Wing Roof	192.DSC03302
Level 6	East Wing Roof	193.DSC03303
Level 6	Previously constructed driveway, Looking East	194.DSC03304

8

AREA	DESCRIPTION	РНО <u>ТО</u>
Level 6	Previously Constructed Driveway, Looking East	195.DSC03306
Level 6	Previously Constructed Driveway, Looking West	196.DSC03307
Level 6	Previously Constructed Driveway, Looking West	197.DSC03 <u>3</u> 08
Level 6	East Wing, Looking South	198.DSC03309
Level 6	East Wing, Looking South	199.DSC03310
Level 6	East Wing, Looking East	200.DSC03311
Level 6	Looking South Towards Entry	201.DSC03312
Level 6	Dome Roof, Looking South	202.DSC03 <u>31</u> 3
Level 6	Dome Roof Detail	203.DSC03314
Level 6	Entry, Looking South	204.DSC03315
Level 6	Carport, Looking West	205.DSC03316
Level 6	East Wing, Looking South	206.DSC03317
Level 6	Entry Porch	207.DSC03318
Level 6	Entry Porch	208.DSC03319
Level 6	Entry Porch Detail	209.DSC03320
Level 6	East Wing, Looking South West	210.DSC03321
Level 6	Previously Constructed Driveway, Looking East	211.DSC03323
Level 6	Previously Constructed Driveway, Looking East	212.DSC03324
Level 6	Previously Constructed Driveway, Looking North	213.DSC03326
Level 6	Previously Constructed Driveway, Looking East	214.DSC03327
Level 6	East Wing, Looking West	215.DSC03330
Level 6	East Wing, Looking West	216.DSC03331
Level 6	East Wing Detail	217.DSC03332
Level 6	Previously Constructed Driveway, Looking North	218.DSC03334

- 3. RECORD DRAWING
- 3.1. LOCATION PLAN
- 3.2. SITE PLAN
- 3.3. MEASURED DRAWINGS

4. BIBLIOGRAPHY

NSW Heritage Office, 'How to Prepare Archival Records on Heritage Items', 2004 "Photographic Recording of Heritage Items Using Film or Digital Capture"



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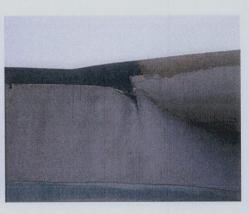
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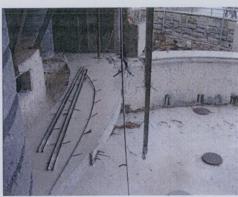
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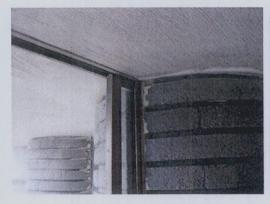




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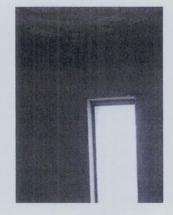
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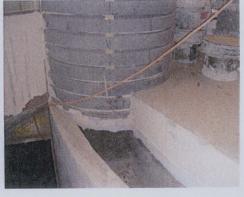
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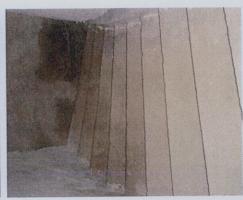
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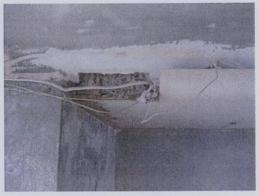
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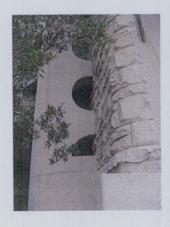
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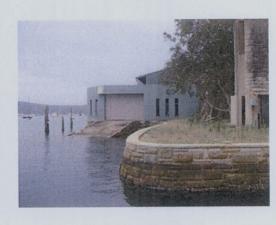
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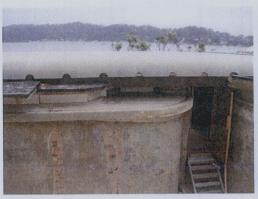
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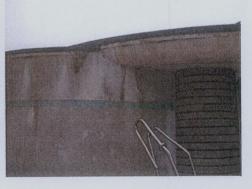
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GEOTECHNICAL RISK MANAGEMENT POLICY FOR PITTWATER FORM NO. 2 - PART A - To be submitted with detailed design for Construction Certificate

Development Application for: Paul Hyland & Pamela Marshall Name of Applicant

Address of site 949 Barrenjoey Rd, Palm Beach

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

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

on this the 19 October 2012

(date)

certify that I am a Structural er Civil Engineer as defined by the Geotechnical Risk Management Policy for Pittwater - 2009. I am authorised by the above organisation/company to issue this document and to certify that the organisation/company has a current professional indemnity policy of at least \$2million. I also certify that I have prepared the below listed structural documents in accordance with the recommendations given in the Geotechnical Report for the above development and that

Please mark appropriate box

the structural design meets the recommendations as set out in the Geotechnical Report or any revision thereto.

the structural design has considered the requirements set out in the Geotechnical Report for Excavation and Landfill both for the excavation/construction phase and the final installation in accordance with Clause 3.2 (b)(iv) of the Geotechnical Risk Management Policy.

Geotechnical Report Details:

Report Title: 1) Geotechnical Assessment Proposed alterations Kumale-949 Barrenjoey Rd Palm Beach Report Date: 3 December 2004. 2) Geotechnical Summary Report @ 949 Barrenjoey Rd Palm Beach Author: 1) Richard Lloyd, 2) Dr. Manfred Hausmann

Author's Company/Organisation: 1) Douglas Partners Pty Ltd, 2) VDM Consulting Engineers Pty Ltd

Structural Documents list:

Constructions Notes + drawings; includes structural steel, reinforced concrete plan views, sections and details

I am also aware that Pittwater Council relies on the processes covered by the Geotechnical Risk Management Policy, including this certification as the basis for ensuring that the geotechnical risk management aspects of the proposed development have been adequately addressed to achieve an "Acceptable Risk Management" level for the life of the structure taken as at least 100 years unless otherwise stated and justified.

Signature

Digitally signed by Mario F Benitez DN: cn=Mario F Benitez, o=VDM

Consulting Engineers Pty Ltd. ou email=vdm1@optusnet.com.ad/t=AUpv/ds._un.com for the next for the Date: 2012.10.19.09:18:01 +11'00 paraved Construction Conditionte

Name Mario F. Benítez

Chartered Professional Status MIEAust, CPEng

Membership No 418917

Company VDM Consulting Engineers Pty Ltd

2012/04587

As issued by Fitzgerald Building Certifiers P/L

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

PART B Declaration made by Geotechnical Engineer or Engineering Geologist and/or Coastal Engineer (where applicable) in relation to the incorporation of the Geotechnical issues into the project design

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

on this the 19 October 2012

(date)

certify that I am a Geotechnical Engineer or Engineering Geologist and/or Coastal Engineer as defined by the Geotechnical Risk Management Policy for Pittwater - 2099 and I am authorised by the above organisation/company to issue this document and to certify that the organisation/company has a current professional indemnity policy of at least \$2million. I also certify that I have reviewed the design plans and structural design plans for the Construction Certificate Stage and that I am satisfied that:

Please mark appropriate box

- the structural design meets the recommendations as set out in the Geotechnical Report or any revision thereto. the structural design has considered the requirements set out in the Geotechnical Report for Excavation and Landfill both for the excavation/construction phase and the final installation in accordance with Clause 3.2 (b)(iv) of the Geotechnical Risk Management Policy.

Geotechnical Report Details:

Report Title: 1) Geotechnical Assessment Proposed alterations Kumale-949 Barrenjoey Rd Palm Beach

Report Date: 3 December 2004. 2)29 July 2008. Geotechnical Summary Report @ 949 Barrenjoey Rd

Palm Beach

Author: 1) Douglas Partners Pty Ltd, 2) VDM Consulting Engineers Pty Ltd

Amabitantumal duare	in an Charlettan I described Control of the land	A
Architectural draw	ings, Structural drawings, Geotechnical repo	orts

I am also aware that Pittwater Council relies on the processes covered by the Geotechnical Risk Management Policy, including this certification as the basis for ensuring that the geotechnical risk management aspects of the proposed development have been adequately addressed to achieve an "Acceptable Risk Management" level for the life of the structure taken as at least 100 years unless otherwise stated and justified.

> mhausmann Name Dr. Manfred Hausmann

Chartered Professional Status - CPEng, MIEAust

Membership No 339258

Company VDM Consulting Engineers P/L



VDM Consulting Engineers Pty Ltd ABN 40 101 544 763 94 Bassett Street Mona Vale, NSW, 2103 T: (02) 9999 4285 F: (02) 9999 0193 E:vdm1@optusnet.com.au

CERTIFICATE OF ADEQUACY GEOTECHNICAL ENGINEERING

"KUMALE" 949 BARRENJOEY RD PALM BEACH, NSW, 2108

(SECTION 96)

Project No: SD1203-004

Reference: 120524/1338

Date: 25 May 2012

The par/decimenc forms part of the Approved Construction Ceruficate

2012/04587

As issued by Fitzgerald Building Certifices P/L

1. Aim

At the request of Pittwater Council in order to support Section 96 this report is concerned with the Kumale residence and the rehabilitation and remediation works as described in previous reports by this firm and others for the existing site.

To ensure that geological distress or set off a landslip/landslide are not cause by the proposed new internal layout as proposed by Architectural Projects P/L (project 1338 – Level 4 and 5, issue D, dated 28.02.12) on behalf of Mr Paul Hyland and Ms Pamela Marshall.

The Geotechnical reference's are:

- "Geotechnical Assessment, Proposed Alterations, Kumale", a report by Douglas Partners, 2004 (referred to as the "Douglas Report"). This report includes a contour plan showing site features and proposed alterations (Drawing 1),
- Assessment of Retaining Walls @ "Kumale", a report by VDM Consulting Engineers Pty Ltd, May 2008 ("VDM Wall Report"),
- Assessment of Cliff Stability @ "Kumale", a report by VDM Consulting Engineers Pty Ltd, May 2008 ("VDM Cliff Report")

2. Inspection / Analyses

The proposed internal layout, although somewhat different to previous proposals, will be found on bedrock comprising medium strength or greater sandstone. Excavations for the remediation works have exposed natural rock at different levels showing insignificant vertical and horizontal clay seams, which will have a negligible impact on the foundations. The remediation works have been or will be taken to stable medium strength rock.

Surface colluviums have been excavated and unstable rock at the cliff face has been stabilized by rock bolting, as well as defective retaining walls have been demolished and/or rectified. In addition, unstable areas have been underpinned to solid bedrock.

Existing retaining walls were found to be in good conditions, however, results of the analysis show that cannot sustain added loads.

3. Conclusions

It is VDM's opinion that the proposed rehabilitation and remediation works will not have a detrimental effect and comply with Pittwater Council Acceptable Risk Assessment. Footings that bear on clay will comprise a combination of shallow spread footings and/or pier and beam where the depth to bedrock increases.

Existing retaining walls cannot support any additional loads, hence, will need to be designed taking in consideration the terrain and any surcharges due to the existing structure and/or other external loads as well hydrostatic pressure. If further loads are added the retaining walls will need to be reinforced or demolished.

It can be concluded the "Kumale" site at 949 Barrenjoey Road, Palm Beach, is suitable for the proposed remediation and the risk of geotechnical hazards present can be managed to an acceptable or tolerable level as specified in the Pittwater Council policy, provided:

Design recommendations as summarised in this report are followed.

- during construction appropriate inspections are carried out (Section 6.1 of VDM report date on 29 July 2010)
- a monitoring and inspection program as outlined in Table 6.2 (VDM report date on 29 July 2010) is incorporated in a post-construction risk management plan.

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

Report by:

mhausmann

Dr. Manfred Hausmann Dipl.Ing., M.Sc., PhD, CPEng, MIEAust (339258) Senior Geotechnical Engineer Approved by:

Banky.

Digitally signed by Mario F Benitez
DN: cn=Mario F Benitez, o=YDM
Consulting Engineers Pty Ltd, ou,
email=vdm1@optusnet.com.au,
c=AU
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Mario F. Benítez, (B.E.(Structural)), CPEng., MIEAust. (418917) MIPENZ (111943)
Senior Structural Engineer