



Pittwater Council

ABN 61 340 837 871

All Correspondence to be addressed to General Manager

Units 9, 11 & 12/ 5 Vuko Place
WARRIEWOOD NSW 2102

Avalon Customer Service Centre

59A Old Barrenjoey Road, AVALON 2107

Environmental Compliance

8am to 6pm Mon - Thurs, 8am to 5pm Fri

Phone 9970 1111

Postal Address

P.O. Box 882

MONA VALE NSW 1660

DX 9018MONA VALE

Telephone (02)9970 1111

Facsimile (02) 9970 7150

Internet www.pittwaterlga.com.au

Email: pittwater_council@pittwater.nsw.gov.au

12 March 2004

DENISE GILMAN
975 BARRENJOEY ROAD
PALM BEACH NSW 2108

COPY

Dear Sir/Madam

Re: Construction Certificate CC0026/04
Property: 975 BARRENJOEY ROAD PALM BEACH NSW 2108

Please find enclosed your approved Construction Certificate and stamped plans.

Did you know that work is unable to commence until such time as a completed **Notification of Commencement Form** has been submitted to Council at least two (2) days prior to starting work? To assist you please find enclosed a Notification of Commencement Form and Information Sheet.

Council is committed to providing a quality service and would value your business in being appointed as the Principal Certifying Authority for your development.

An Officer will contact you in the next few days to discuss your development and help ensure your development progresses smoothly.

Yours faithfully

Development Compliance Group

Per: 



Pittwater Council

Construction Certificate No: CC0026/04

COPY

Site Details: 975 BARRENJOEY ROAD PALM BEACH NSW 2108

Legal Description: Lot 1 DP 205296 LIC 340085

Type of Development: Building Work

Description: Inclined Lift

Associated Development Consent No: N0068/03 Dated: 16/09/2003

Building Code of Australia Certification: Class 10b

Details of plans, documents or Certificates to which this Certificate relates:

- Architectural plans prepared by P R King & Sons Pty Ltd Plan No. 10202/5 Sheet 1 of 2 and Sheet 2 of 2 dated 23.5.2003
- Siltation plan prepared by Partridge Partners dated Nov 2003
- Form 2 – Geotechnical Risk Management Policy for Pittwater prepared by Nicholas Joannides and G R Wilson dated 12.2.2003 (typo 2004) and additional statement to clarify the reference to Drawing No. 2001.0110/S11 prepared by Nicholas Joannides of Partridge Partners dated 9.3.2004
- Structural Engineering details prepared by Partridge Partners Job No. 2001.0110 Drw S10A dated Nov 2003, Drw No. S1B dated 23.4.01, Drw No. S11 dated Nov 2003
- Inclined lift manufacturers details prepared by P R King & Sons Pty Ltd Drawing No. 32/02 and data sheet
- Structural details prepared by Rooney & Bye Drawing No. 4356-SK 1 of 2 Rev B and Drawing No. 4356-SK 2 of 2 Rev B as reviewed by G R Wilson of Douglas Partners Pty Ltd

I hereby certify that the above plans, documents or Certificates satisfy:

- The relevant provisions of the Building Code of Australia.
- The relevant conditions of Development Consent No: N0068/03

Further that the work, completed in accordance with the Building Code of Australia, all relevant Australian Standards and these plans and specifications, will comply with the requirements of Section 81A(5) of the Environmental Planning and Assessment (Amendment) Act, 1997.


Darren Greenow
Development Compliance Group

12 March 2004
Date of Endorsement

Note: You are reminded that pursuant to provisions of Clause 81A, you must nominate whether Council or an accredited certifier will be the principal certifying authority, also you must give notice to Council of your intention to commence work at least two days beforehand.

Level 4, 1 Chandos Street
St Leonards
NSW 2065 Australia
email partridge@partridge.com.au
Facsimile 02 9460 9090
Telephone 02 9460 9000

Facsimile Transmission



Partridge Partners

Attention Darren Greenow
Company Pittwater Council
Facsimile 9970 7150
From Nicholas Joannides
Date 9/3/2004
Reference PROPOSED INCLINATOR
975 Barrenjoey Road
PALM BEACH, NSW 2108
CC 002604

Engineering Consultants
Structural
Civil
Facade
Ecological
Forensic

Pages (Inc Header) Page 1 of 1
Project No. 20010110

Darren,

Please check all pages are received

This is to confirm that the FORM NO.2 certificate completed for the Proposed Inclinator is valid for Drawing 2001.0110 / S11 as attached to the certificate.

Regards,

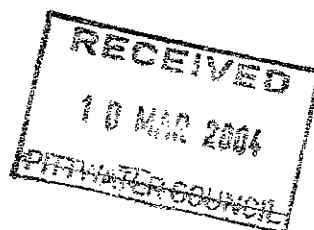
Nicholas Joannides

Nicholas Joannides

BE(Hons1) MEngSc FIE Aust CPEng NPER RPEQ
Director Partridge Partners Pty Limited

Tel 02 9460 9000
Fax 02 9460 9090
Email nick@partridge.com.au

PITTWATER COUNCIL CONSTRUCTION CERTIFICATE	
Number: CC 0026/04	
This is a copy of submitted plans, documents or Certificates associated with the issue of the Construction Certificate.	
Endorsed by:	<i>[Signature]</i>
Date:	12 MAR 2004



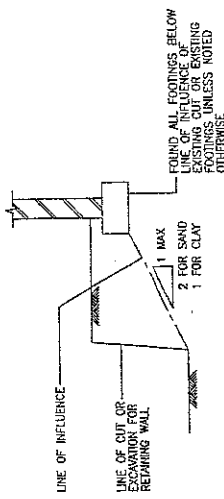
PROPOSED ALTERATIONS & ADDITIONS at 975 BARRENJOEY ROAD, PALM BEACH for R. & D. GILMAN

CONSTRUCTION NOTES

- GENERAL
61. These drawings shall be read in conjunction with all architectural and other working drawings, specifications and all written instructions as may be issued by the Engineer.
62. All workmanship and materials shall be in accordance with the requirements of the current edition of the S.A. Codes and the By-Laws and Ordinances of the relevant Building Authority.
63. Any conflict between these notes, the specification, the drawings or any other relevant documents shall be referred to the Engineer for decision prior to construction.
64. Dimensions shall not be obtained by scaling the drawings. For setting out dimensions and levels refer to architectural drawings.
65. The Builder shall be responsible for the provision of all shoring to maintain the stability and integrity of excavations and adjacent structures.
66. During construction it is the Builder's responsibility to ensure that the design and drawings are copyright and may not be used or reproduced in whole or in part without the written permission of Partridge Partners Pty Ltd.
68. Fire-Resistant Levels (FRL's) required for the various structural elements must be confirmed by the BCA consultant or Architect.

FOUNDATIONS

- F1. The minimum safe bearing capacity of foundation material shall be:
Ship footings: 800 kPa, in ROCK
Bart slabs: 800 kPa, in ROCK
- F2. Foundation material shall be approved by the Engineer prior to placing concrete.
- F3. All footings shall be finished clean and horizontal.
- F4. Founding levels where shown are for tender purposes only.
- F5. Any proposed footing excavation near boundaries, other structures or services shall be approved by the Engineer.
- F6. Subgrade shall be approved material compacted to 95% Standard Dry density determined by the Engineer.
- F7. Locality of excavations relative to line of cut/excavation including excavations for retaining walls as follows:



REINFORCED CONCRETE

- C1. All workmanship and materials shall be in accordance with AS3600, the S.A. standards cited in AS3600, the drawings and the specification.
- C2. Concrete composition and minimum clear concrete cover to reinforcement shall be as follows:-

Element	AS3600 F _c MPa	Cover mm
FOOTINGS	25	50
INTERNAL AND EXTERNAL EDGE THICKENINGS	AS NOTED	50 BOTTOM AND TOP
INTERNAL SLAB ON GROUND	40	30 BOTTOM AND TOP
INTERNAL SUSPENDED SLAB	40	30
EXTERNAL ON GROUND	40	40
EXTERNAL SUSPENDED SLAB	40	40
PIERS	40	40

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COMPETENT ENGINEERS AND ARCHITECTS ARE REQUIRED IN PARTRIDGE PARTNERS PTY. LIMITED. ANY WORK DONE BY ANY OTHER PERSON OR FIRM WITHOUT THE WRITTEN CONSENT OF PARTRIDGE PARTNERS PTY. LIMITED SHALL BE AT THE RISK OF THE USER. DRAWINGS SHALL NOT BE CHANGED WITHOUT THE WRITTEN CONSENT OF PARTRIDGE PARTNERS PTY. LIMITED.



No. Issue/Amendment
A ISSUE FOR CONSTRUCTION
B REVISED ISSUE FOR CONSTRUCTION

App'd Date
27.04.01
04.11.03

Partridge Partners
Engineering Consultants
Structural
Foundation
Fire-resistant
Formwork

PROPOSED ALTERATIONS & ADDITIONS
975 BARRENJOEY ROAD, PALM BEACH
FOR R. & D. GILMAN

LESLIUK & ASSOCIATES PH: 9974 1010

Approved by: [Signature]
Design: J.T.H.
Date: 23.04.01
Scale: N.T.S.
Job No. 2001.0110
Orig. No. S1 B

STEELWORK

- S1. Materials, fabrication and erection shall be in accordance with AS4100, the S.A. Standards cited in AS4100 and the specification.
- S2. Three copies of all workshop drawings shall be submitted to and approved by the Engineer prior to fabrication.
- S3. All welds shall be in accordance with AS1554, the drawings and the specification.
- S4. For bolts, the following notation is used:
4-M16 4.6/S denotes 4 x M16 commercial grade bolts using light tempering.
6-M20 8.8/F denotes 6 x M20 high strength structural bolts fully tensoned to 8.8/F19.
6-M24 10.9 denotes 6 x M24 high strength structural bolts fully tensoned to 10.9/F20.
- S5. Mating surfaces of T-junctions shall be left unpainted and free of mill scale and rust.
- S6. Bolts in T-junctions shall be tightened using the part turn method or load indicating bolts. Confirmed torque wrenches shall not be used. The re-use of fully tensioned bolts is prohibited.
- S7. The Builder shall provide all cleats and drill all holes necessary for fixing steel to steel or timber.
- S8. Steel beams and trusses spanning greater than 5m shall be fabricated with an upward camber of 1/500.
- S9. Structural steelwork shall be prepared to class 2 and painted with Zinc Primer to a thickness of 70 micrometres u.n.o.
- S10. Steelwork built into masonry and exposed external steelwork shall be hot-dipped galvanized.
- S11. Provide fire protection to all steelwork as required.
- S12. All cold formed steel shall conform to AS1530 and be roll-formed from min. 1.2mm yield stress 450MPa, 300 g/m² minimum zinc coating mass u.n.o.
- S13. The Builder shall provide suitable certified approved fire protection of fire spray, fire board or equal to the manufacturer's specification.

12 MAR 2004

Endorsed by: [Signature]

Construction Certificate
This is a copy of submitted plans, documents or
Certificates associated with the issue of the
Construction Certificate

Number: CC 0026/04

12 MAR 2004

DATE

12 MAR 2004

12 MAR 2004

12 MAR 2004

12 MAR 2004

12 MAR 2004

12 MAR 2004

12 MAR 2004

12 MAR 2004

12 MAR 2004

12 MAR 2004

12 MAR 2004

12 MAR 2004

12 MAR 2004

LOADINGS

- L1. Superimposed floor loads are generally in accordance with AS1170.2 and specifically:
1.5 kPa GENERAL
3.0 kPa BALCONIES
- L2.1 Wind loads are in accordance with AS1170.2 for:
Terrain Category: 3
Topographic Multiplier of: 1.0
Region: A
- L2.2 Equivalent Wind Classification to AS4055 - Wind Loads for Houses
- L3. The relevant provisions of AS1170.4 have been applied for the following:
Earthquake Design:
Seismic Factor S = 0.67
Ground acceleration a = 0.09

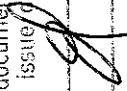
TIMBER

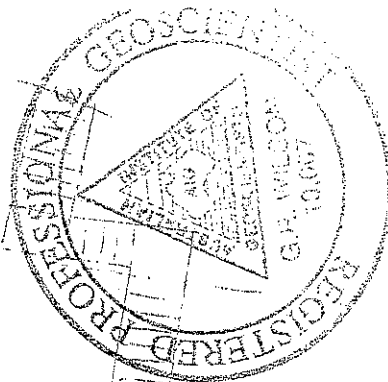
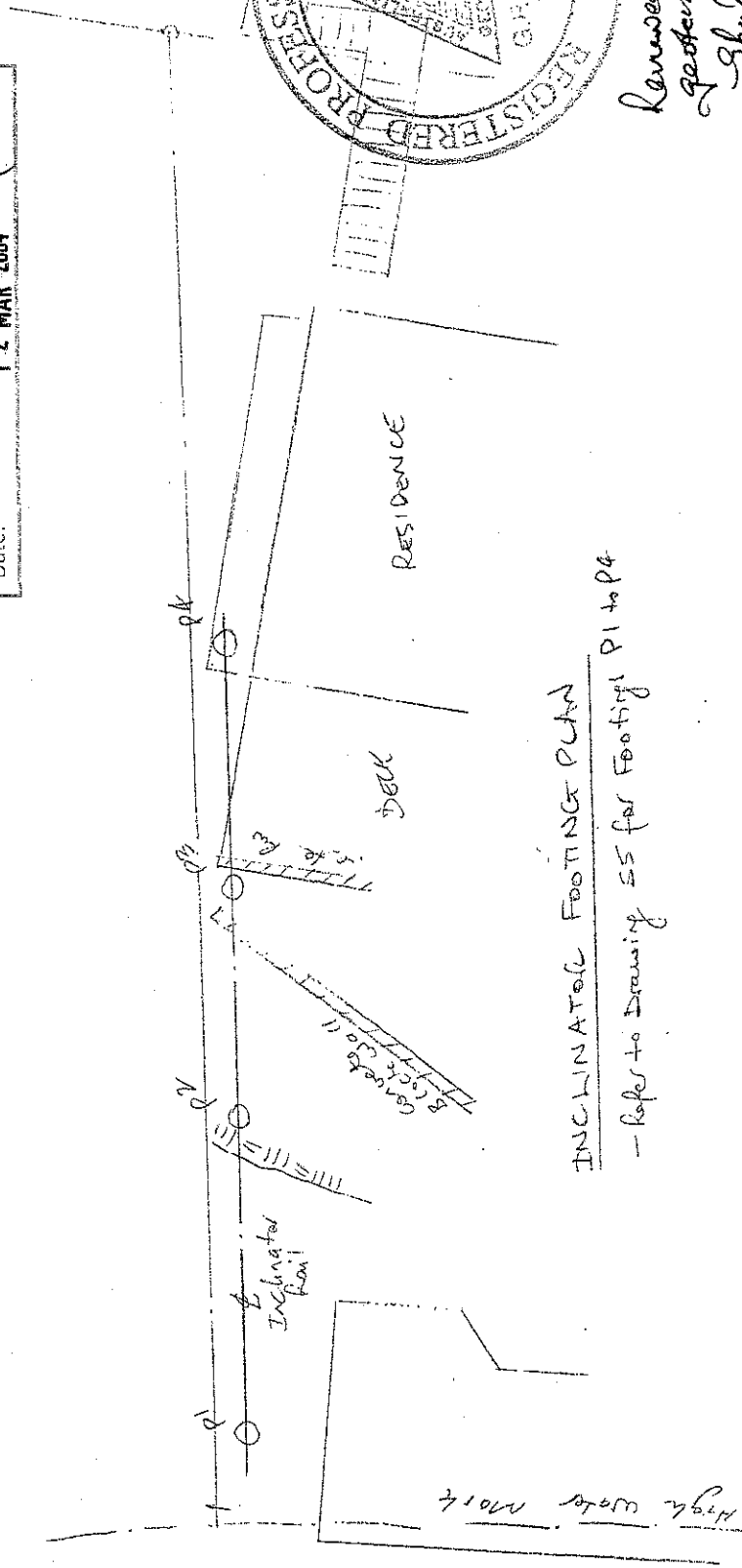
- T1. All workmanship and materials shall be in accordance with AS1720 and the specification.
- T2. Timber shall be in accordance with AS1720, AS1684 and the specification.
- T3. Timber shall be untreated, u.n.o.
- T4. Timber shall be of all truss workshop drawings shall be submitted to and approved by the Engineer prior to fabrication. All trusses to be fabricated shall be in accordance with the design and drawings.
- T5. Timber shall be in accordance with the design and drawings.
- T6. Timber shall be in accordance with the design and drawings.
- T7. Timber shall be in accordance with the design and drawings.
- T8. Timber shall be in accordance with the design and drawings.

MASONRY

- M1. All workmanship and materials shall be in accordance with AS3700, the S.A. Standards cited in AS3700, the drawings and the specification.
- M2. Where masonry supports concrete slabs or beams, the top course shall be laid frogs and chases and shall be reinforced with 2 layers of approved slip joint material.
- M3. Slabs shall be supported on plan or load bearing. Non-load bearing walls under slabs shall be separated from the slab by 15mm of approved compressible material. Where masonry abuts slab downstands, provide 15mm gap between brickwork and side of downstand slabs or beams shall not be erected until masonry supported by concrete removed.
- M4. Masonry shall be in accordance with the design and drawings.
- M5. Hollow concrete masonry shall be in accordance with AS3700.
- M6. Masonry shall not be cut into load-bearing masonry without the approval of the Engineer.
- M7. Movement control joints shall be provided vertically for full height of wall as follows:
An internal movement joint shall be provided at a maximum of 4m from corners.
An external movement joint shall be provided at a maximum of 4m from corners.
Joints shall be 15mm minimum with an approved compressible material.
Joints shall be 15mm minimum with an approved compressible material.
- M8. Movement control joints shall be provided horizontally for full height of wall as follows:
An internal movement joint shall be provided at a maximum of 4m from corners.
An external movement joint shall be provided at a maximum of 4m from corners.
Joints shall be 15mm minimum with an approved compressible material.
- M9. Movement control joints shall be provided horizontally for full height of wall as follows:
An internal movement joint shall be provided at a maximum of 4m from corners.
An external movement joint shall be provided at a maximum of 4m from corners.
Joints shall be 15mm minimum with an approved compressible material.
- M10. Movement control joints shall be provided horizontally for full height of wall as follows:
An internal movement joint shall be provided at a maximum of 4m from corners.
An external movement joint shall be provided at a maximum of 4m from corners.
Joints shall be 15mm minimum with an approved compressible material.
- M11. Movement control joints shall be provided horizontally for full height of wall as follows:
An internal movement joint shall be provided at a maximum of 4m from corners.
An external movement joint shall be provided at a maximum of 4m from corners.
Joints shall be 15mm minimum with an approved compressible material.
- M12. Movement control joints shall be provided horizontally for full height of wall as follows:
An internal movement joint shall be provided at a maximum of 4m from corners.
An external movement joint shall be provided at a maximum of 4m from corners.
Joints shall be 15mm minimum with an approved compressible material.
- M13. Movement control joints shall be provided horizontally for full height of wall as follows:
An internal movement joint shall be provided at a maximum of 4m from corners.
An external movement joint shall be provided at a maximum of 4m from corners.
Joints shall be 15mm minimum with an approved compressible material.
- M14. Movement control joints shall be provided horizontally for full height of wall as follows:
An internal movement joint shall be provided at a maximum of 4m from corners.
An external movement joint shall be provided at a maximum of 4m from corners.
Joints shall be 15mm minimum with an approved compressible material.

Reviewed for govt technical content
[Signature]
[Signature]

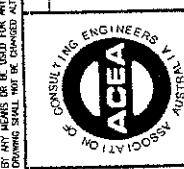
PITWATER COUNCIL CONSTRUCTION CERTIFICATE	
Number: CC 0026/04	
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Endorsed by:	
Date:	12 MAR 2004



Reviewed for
geotechnical content
Ghuldas
Douglas Pharo 1/2

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Level 4, 1 Chander Street, St Leonards NSW 2065 Tel 9460 9000 Fax 9460 9090



No. A
Issue/Amendment
For Construction

App'd
N

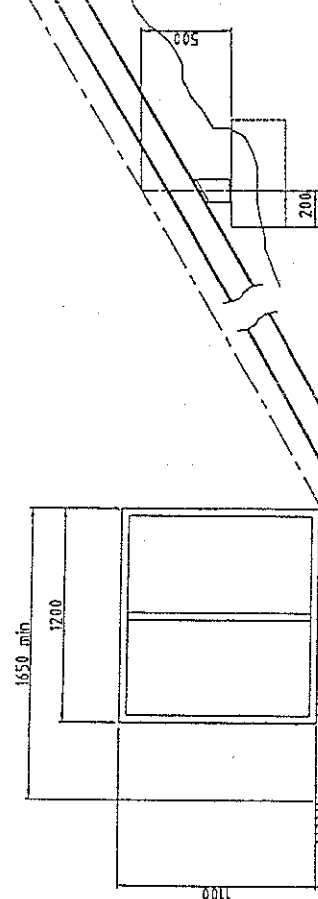
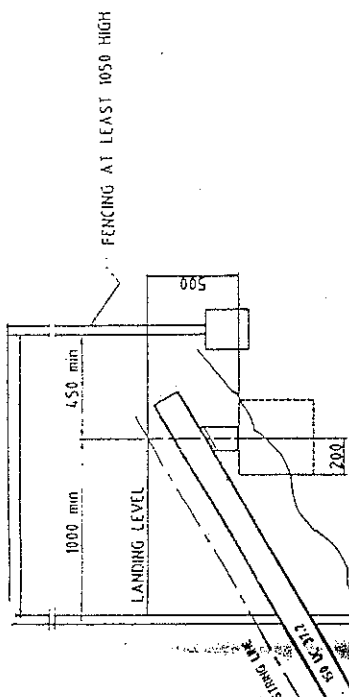


Partidge Partners
Engineering Consultants
Structural
Civil
Mechanical
Electrical
Environmental
Ecological
Planning

Mr & Mrs Gilman
Alterations & Additions
975 Barrengrey Rd, Palm Beach
Inclinator Footing Plan

Approved N. G. Gilman BE MEMBER: EIT AUSI	Design N5	Date Nov 2003
Scale 1:100	Job No. 2001-0110	Doc. No. S10

PITWATER COUNCIL CONSTRUCTION CERTIFICATE		
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Endorsed by:		Date: 12 MAR 2004

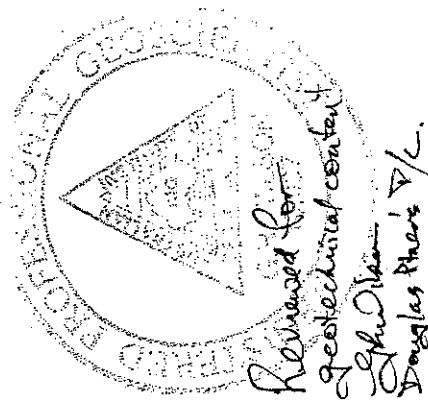


NOTE : X = 1000 TO 1300
DEPENDENT ON
ANGLE

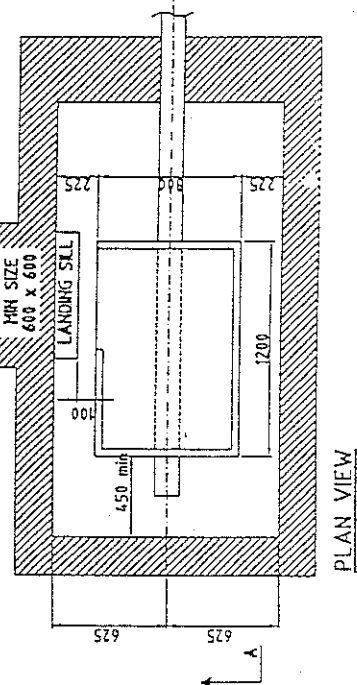
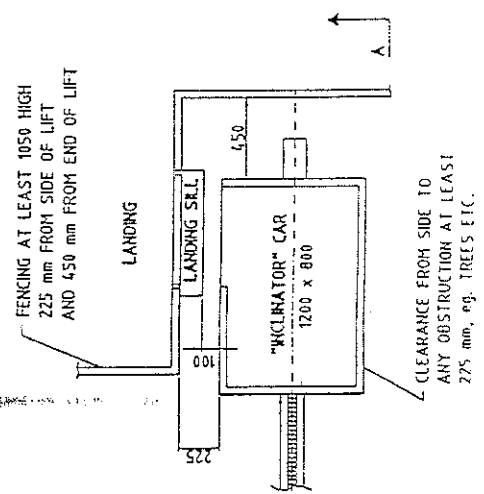
SECTION A-A

NOTES:

1. MIN SIDE CLEARANCE TO ANY OBSTRUCTION TO BE 225mm - EXCEPT LANDING SILL.
2. MAX RAIL DISTANCE BETWEEN FOUNDATIONS TO BE 4500mm ON THE INCLINE.
3. MIN CLEARANCE FROM CENTRELINE OF RAIL TO ANY OBSTRUCTION TO BE 650mm.



P. R. KING & SONS PTY. LTD.	
"INCLINATOR" SETOUT DETAILS	
SCALE: NTS	DRAWING NUMBER: 1272
DATE: 21.01.2004	



PLAN VIEW

P.R.KING & SONS PTY.LTD.

Telephone 02 9560 7344

A.C.N. 000 134 547
155 Victoria Rd., Marrickville N.S.W. 2204
Postal Address P.O. Box 20, Marrickville 1475

Facsimile 02 9568 3886

4 PASSENGER "INCLINATOR" DATA SHEET

CAPACITY: 4 PERSON OR 272 KG (UNITS UP TO 10 PERSONS AVAILABLE)

RAIL : 150 UC 37.2 WITH A SG IRON RACK BOLTED TO THE TOP FLANGE

CABLE : 9 CORE NEOPRENE SHEATHED TRAILING CABLE WITH A KEVLAR CORE

DRIVE : 2.2 KW RACK AND PINION DRIVE WITH TELEMACHINIQUE VARIABLE SPEED CONTROLLER AND SEW BRAKE MOTOR . ALL UNITS FITTED WITH AN OVERSPEED GOVERNOR AND BRAKE THAT ACTIVATES IF SPEED REACHES 125% OF RATED SPEED.
(RATED SPEED 0.4 METRES PER SECOND)

CARRIAGE : 1200 MM LONG BY 800MM WIDE PLATFORM WITH ALUMINIUM FRAME AND ACRYLIC INFILL PANELS. DOME ROOF AND ELECTRICALLY INTERLOCKED SLIDING DOOR ALSO AVAILABLE.

CONTROLS : 24 VOLT CONTROLS ON EACH LANDING AND ON THE CARRIAGE WITH A MAXIMUM OF 6 STATIONS.

SUPPORTS : AS SPECIFIED IN DRAWING NUMBERS 4356 SK1 & SK2 , LOCATIONS CONFIRMED ON SITE . MAXIMUM DISTANCE BETWEEN FOUNDATIONS 4.5 METRES ON INCLINE.

LIMITATIONS : MAXIMUM TRAVEL 120 METRES, MAXIMUM ANGLE 45 DEGREES, MINIMUM ANGLE 14 DEGREES, MAXIMUM CHANGE OF GRADE 8 DEGREES.

TRACK WIDTH : WIDTH OF THE CAR PLUS 225 MM CLEARANCE EITHER SIDE (TOTAL OF 1250 MM TRACK WIDTH FOR A 800MM WIDE CAR)

PITWATER COUNCIL CONSTRUCTION CERTIFICATE
Number: CC00026104
This is a copy of submitted plans, documents or Certificates associated with the issue of the Construction Certificate.
Endorsed by:
Date: 12 MAR 2004

RAIL

406 Ø FOR 'H' FROM 0 TO 3500
457 Ø FOR 'H' FROM 3501 TO 5000

FOR TIES SEE PLAN

600 LAP FOR Y20
400 LAP FOR Y16

2 R6 TIES
LAP 300

FOUNDATION BOLTS
AND SUPPORT CHAIRS
SUPPLIED BY P.R.KING

Number: CC 0026/04
This is a copy of submitted plans, documents or
Certificates associated with the issue of the
Construction Certificate.

Endorsed by:

Date: 6 Y16 BARS FOR 12 MAR 2004
H' 0 TO 3500
6 Y20 BARS FOR
H' 3501 TO 5000

6 Y20 BARS FOR
H' 3501 TO 5000

R6 TIES AT 200 FOR 'H' 0 TO 3500
R10 TIES AT 300 FOR 'H' 3501 TO 5000
50 COVERLAPS STAGGERED

F82 TOP AND
BOTTOM,
50 COVER

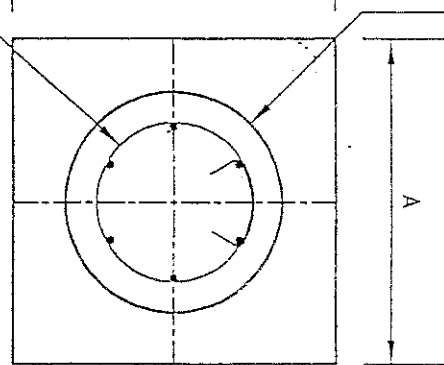
NOTE A:-
FOUNDATION DEPTH TO
BE 600 OR GREATER FOR
CLAY AND SAND, 800
FOR ROCK

1000 MIN. CLAY
2000 MIN. SAND
(TYPICAL ALL FOOTINGS)

NOTE D:-
NATURAL GROUND LEVEL MUST NOT UNDERCUT
THE 45° FOUNDATION SUPPORT LINE

COLUMN PAD TYPE 'A'

PLAN



406 Ø C.C. JMN
457 Ø C.C. JMN
SEE ELEVATION

NOTE:-

THE BUILDER IS RESPONSIBLE FOR
DETERMINING THIS FOUNDATION
DEPTH TO ENSURE THAT NOTES A,
B, C AND D ARE COMPLIED WITH

*Revised for
constant
depth
Revised for
constant
depth
Revised for
constant
depth*

- NOTES:-**
- ANCHOR BLOCK DESIGNED FOR MAXIMUM TRACK LENGTH = 60000
 - MINIMUM STOPPING DISTANCE = 50
 - RAIL SIZE = 150UC37
 - MAXIMUM SLOPE SPAN OF TRACK = 4500
 - MAXIMUM OPERATING SPEED = 0.4 M/S
 - MAX. SLOPE FOR 272 KG CARRIAGE = 38°
 - MAX. SLOPE FOR 160 KG CARRIAGE = 45°
 - ASSUMED WIND VELOCITY DURING OPERATION = 100 KM/H
 - FOOTING DIMENSIONS FOR HEIGHT 'H' UP TO 2000
 - A = 600 MIN.
 - B = 600 MIN.
 - D = 300 MIN.
 - FOR HEIGHT 'H' > 2001 AND UP TO 3500
 - A = 800 MIN.
 - B = 800 MIN.
 - D = 400 MIN.
 - FOR HEIGHT 'H' > 3501 AND UP TO 5000
 - A = 900 MIN.
 - B = 900 MIN.
 - D = 600 MIN.
 - CONCRETE QUALITY CHARACTERISTIC COMPRESSIVE STRENGTH @ 28 DAYS f_{ck} = COLUMNS N32 MPa. f_{tc} = FOOTINGS N25 MPa. CONCRETE SLUMP = 75 MAX.
 - MIN. FOUNDATION BEARING PRESSURE TO BE 20 kPa. APPROVED ON SITE BY THE BUILDER OR GEOTECHNICAL ENGINEER/AMPLIFIED
 - ROCK FOUNDATIONS
 - a. WHERE PIERS ARE FOUNDED ON SOLID SANDSTONE OR IGNEOUS ROCK DELETE FOOTING BUT CONSTRUCT NOTES 12a, b AND c.
 - b. ROCK SURFACE SHALL BE LEVELLED AND SCABBLED BACK TOWARD SOUND MATERIAL.
 - c. 6 - 32 Ø HOLES TO RECEIVE STARTER BARS SHALL BE DRILLED 500 DEEP INTO ROCK.
 - STARTER BARS SHALL BE GROUTED WITH GEMENT SAND GROUT WITH A COMPRESSIVE STRENGTH f_{ck} = 25 MPa.
 - ALL DIMENSIONS ARE IN MILLIMETRES (mm).
 - FOUNDATION DESIGN IS SHOWN ON DRAWINGS 4356 - SK1 AND SK2.

Rooney & Bye
(AUSTRALIAN) PTY LIMITED

CONSULTING CIVIL & STRUCTURAL ENGINEERS
SUITE 2, LEVEL 2, 621 PACHICHIWAY, ST. LEONARDS
ACT 2001 814 384 TEL. 9418 4044 FAX. 9437 5883

P.R.KING & SONS PTY LTD
155 VICTORIA ROAD
MARICKVILLE
TELEPHONE NO. 9560 7344

DATE: 15/03/04
DRAWN BY: P.B.
CHECKED BY: P.B.
APPROVED BY: P.B.

REV.	DESCRIPTION	DATE
1	ISSUED FOR CONSTRUCTION	15/03/04
2	ISSUED FOR CONSTRUCTION	15/03/04
3	ISSUED FOR CONSTRUCTION	15/03/04
4	ISSUED FOR CONSTRUCTION	15/03/04

DRAWING TITLE
STANDARD DETAILS
FOR INCLINATOR
FOOTINGS
SHEET. 1
DRAWING NO. 4356 - SK1 OF 2
REVISION B

F82 TOP AND
BOTTOM, 50 COVER
TO ALL SIDES

RAIL

NOTE:-

THE BUILDER IS RESPONSIBLE FOR
DETERMINING THIS FOUNDATION
DEPTH TO ENSURE THAT NOTES A,
B, C AND D ARE COMPLIED WITH

NOTE A:-
FOUNDATION DEPTH TO
BE AT LEAST 600 OR
GREATER

NOTE A:-
FOUNDATION
DEPTH TO
BE AT
LEAST 300

F82 TOP AND
BOTTOM, 50 COVER
TO ALL SIDES OF
ALL PADS

RAIL

NOTES:-

1. REFER TO SK1 FOR NOTES.
2. ALL DIMENSIONS ARE IN
MILLIMETRES (mm).

SEE NOTE B ON SK1
SEE NOTE C ON SK1

SEE NOTE D ON SK1

SEE NOTE B ON SK1
SEE NOTE C ON SK1

SEE NOTE D ON SK1

ANCHOR PAD TYPE 'B'

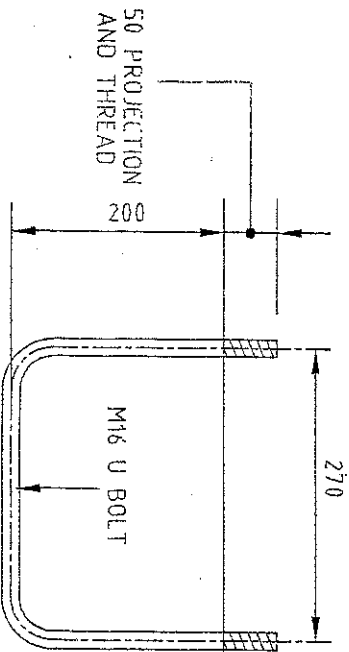
NOTE:-

FOUNDATION BOLT MUST
BE LOCATED 200 FROM
EDGE OF FOOTING.

ANCHOR PAD TYPE 'C'

NOTE:-

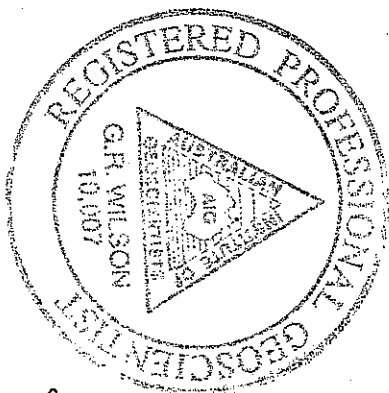
FOUNDATION BOLT MUST
BE LOCATED 200 FROM
EDGE OF FOOTING.



TOP OF CONCRETE

FOUNDATION BOLT DETAIL SCALE: 5

1:2 MAR 2004



*Reviewed for
Geotechnical content
Douglas Barker P/L*

DESIGNER:

P. Butcher

PHILIP J. BUTCHER F.E. (Aust.)
MEMBERSHIP NO. 358 816

Rooney & Bye
(AUSTRALIA) PTY. LIMITED
CONSULTING CIVIL & STRUCTURAL ENGINEERS
SUITE 2, LEVEL 7, 621 PACIFIC HWY, ST. LEONARDS
A.C.N. 001 814 384 TEL: 9438 4044 FAX: 9437 5885

CLIENT
P.R. KING & SONS PTY LTD
155 VICTORIA ROAD
MARICKVILLE
TELEPHONE NO. 9560 7344

DATE	BY	CHECKED BY	DATE
12/03/04	P.J.B.		

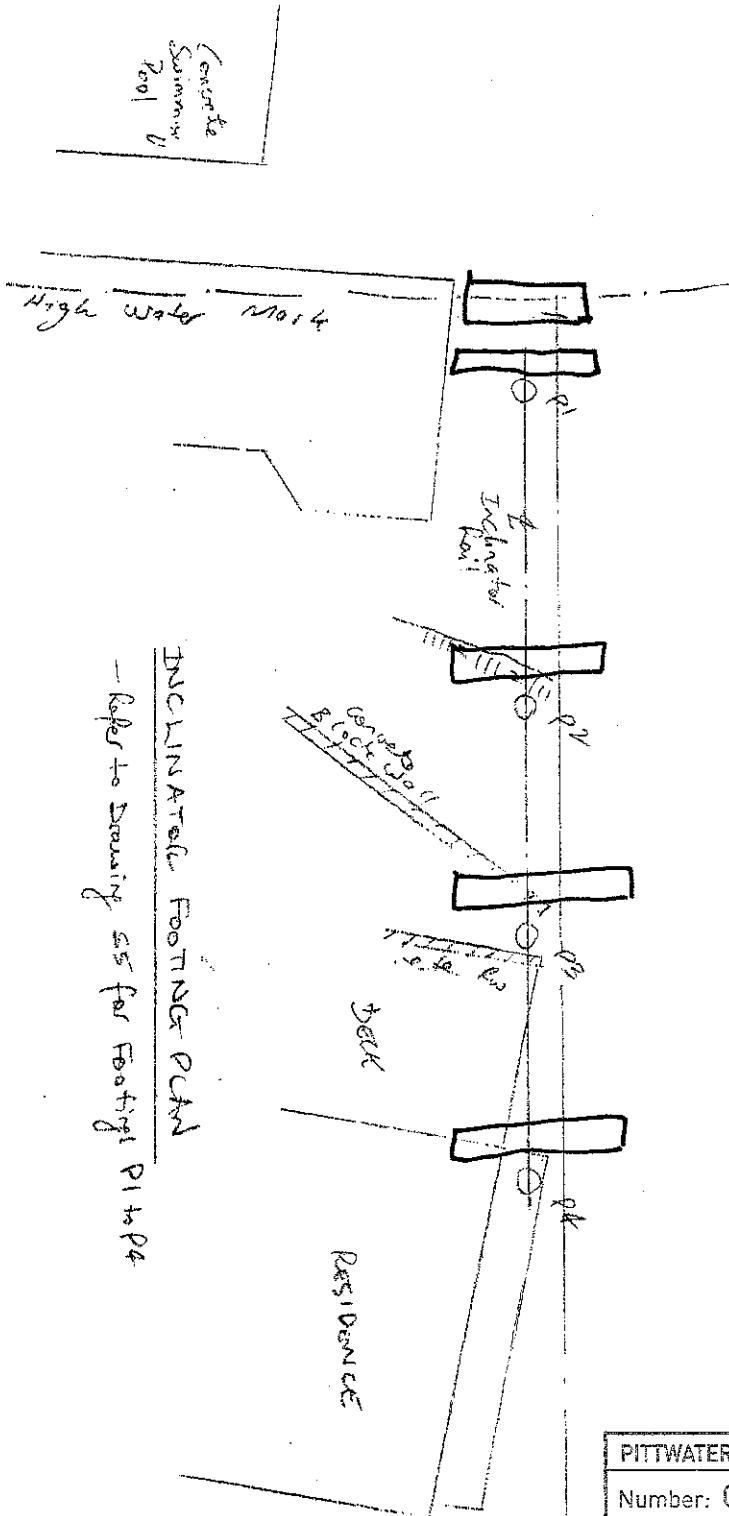
REFERENCE DRAWINGS

REV.	DESCRIPTION	DATE	APPRO.
1	ISSUED FOR CONSTRUCTION	04/05/04	

DRAWING TITLE
**STANDARD DETAILS
FOR INCLINATOR
FOOTINGS**
SHEET 2
DRAWING NO. 4356 - SK2 OF 2
REVISION B

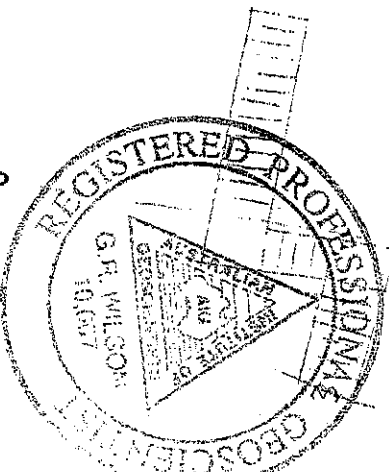
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SILTATION PLAN



INCLINATOR FOOTING PLAN
 - Refer to Drawing SS for Footings P1 to P4

PITTWATER COUNCIL CONSTRUCTION CERTIFICATE	
Number: CC0026/04	
This is a copy of submitted plans, documents or Certificates associated with the issue of the Construction Certificate.	
Endorsed by:	<i>[Signature]</i>
Date:	12 MAR 2004



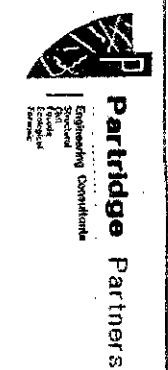
Reviewed for
 geotechnical content
[Signature]
 Douglas Moore /c

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ACEA ASSOCIATION OF CONSULTING ENGINEERS AUSTRALIA

No.	Issue/Amendment	App'd	Date
A	For Construction	M	4.11.03



Mr & Mrs G.H. Man
 Alterations & Addition
 975 Barrenjoey Rd, Palm Beach
 Inclinator Footing Plan

Design	Drawn	Date
NS	NS	Nov 2003
Scale of AS	1:100	
Job No.	2003/111	File No.

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

Development Application for <u>R # D Gilman</u>
Name of Applicant
Address of site <u>975 Barrenjoey Road, PALM BEACH</u>

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

I, Nicholas Ioannides on behalf of Partridge Partners Pty Ltd
(insert name) (trading or company name)

on this the 12th February, 2003
(date)

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

Geotechnical Report Details:

Report Title: <u>Supplementary Geotechnical Assessment - Proposed Inclinator</u>
Report Date: <u>23 May 2003</u>
Author: <u>Grahame Wilson</u>

Structural Documents list:

<u>2001.0110 S1'B', S10'A', S11'A' by Partridge Partners Pty Ltd</u>

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

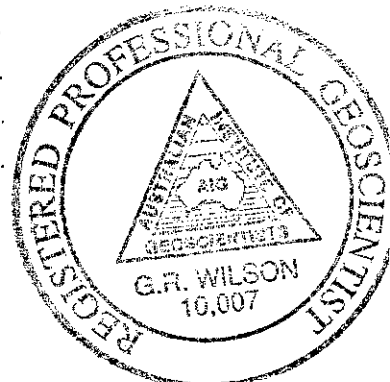
Nicholas Ioannides
(name)

Nicholas Ioannides
(signature)

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

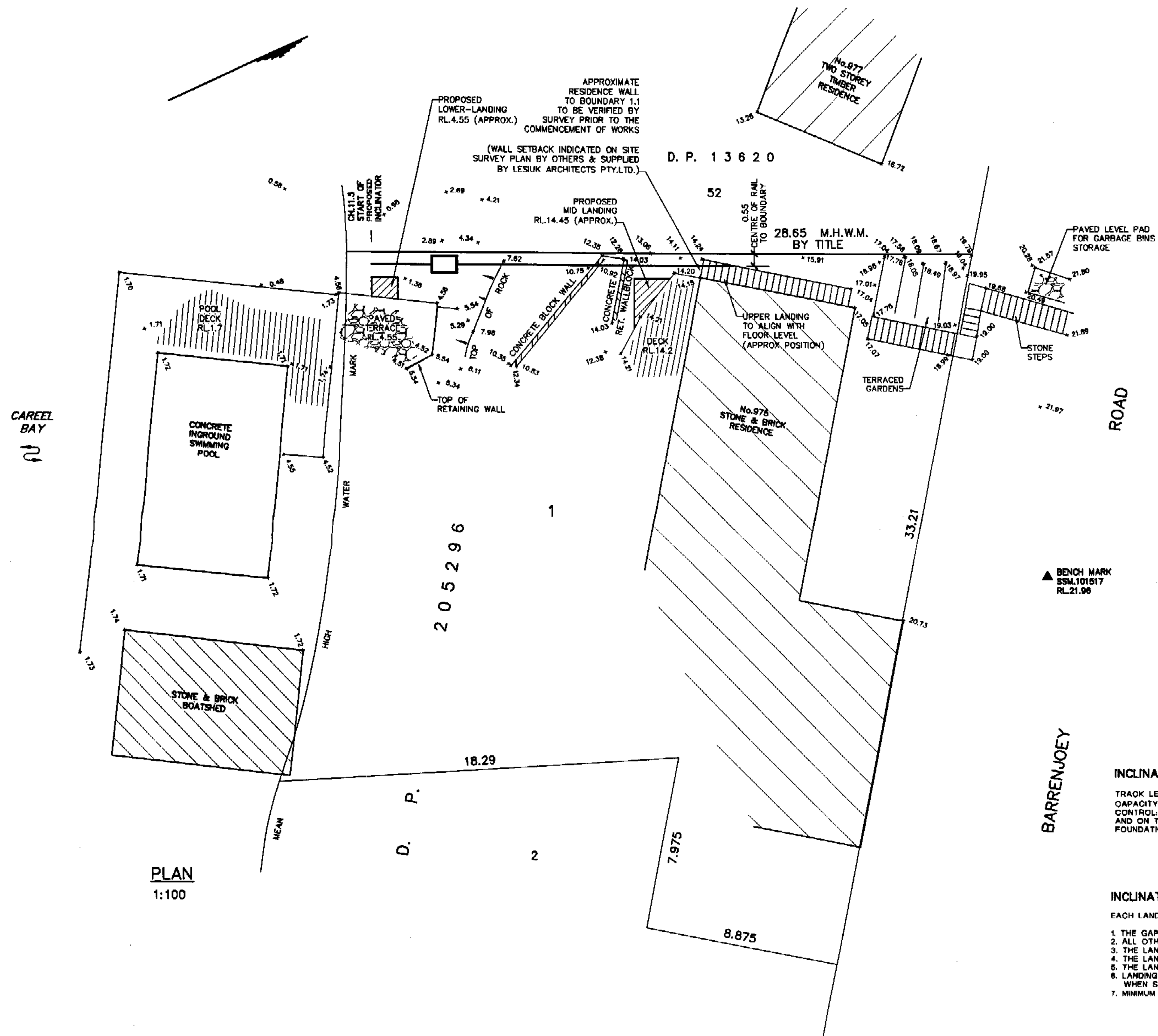
I prepared and/or technically verified the abovementioned Geotechnical Report as per Form 1 dated 10 May 2003 and now certify that I have viewed the above listed structural documents prepared for the same development. I am satisfied that the recommendations given in the Geotechnical Report have been appropriately taken into account by the structural engineer in the preparation of these structural documents. I am aware that Pittwater Council relies on the processes covered by the Geotechnical Risk Management Policy, including this certification as the basis for ensuring that the geotechnical risk management aspects of the proposed development have been adequately addressed to achieve an "Acceptable Risk Management" level for the life of the structure taken as at least 100 years unless otherwise stated and justified in the Report and that reasonable and practical measures have been identified to remove foreseeable risk.

Signature G.R. Wilson
 Name G.R. Wilson
 Chartered Professional Status KL600
 Membership No. 10007



PITTWATER COUNCIL CONSTRUCTION CERTIFICATE
Number: <u>CC0026/04</u>
This is a copy of submitted plans, documents or Certificates associated with the issue of the Construction Certificate.
Endorsed by: <u>[Signature]</u>
Date: <u>12 MAR 2004</u>

PITTSWATER COUNCIL CONSTRUCTION CERTIFICATE	
Number:	CC 0026/04
This is a copy of submitted plans, documents or Certificates associated with the issue of the Construction Certificate.	
Endorsed by:	<i>[Signature]</i>
Date:	12 MAR 2004



PLAN
1:100

NOTES

1. SPOT LEVELS SHOWN THUS: $\nabla 17.05$
2. NO BOUNDARY SURVEY HAS BEEN MADE. THE NORTH WESTERN BOUNDARY ADJACENT TO THE PROPOSED INCLINATOR SHOULD BE SURVEYED & MARKED ON THE GROUND PRIOR TO THE COMMENCEMENT OF ANY WORKS ON SITE.

HIGH WATER MARK SHOWN ON THIS PLAN HAS NOT BEEN DETERMINED BY SURVEY. THE LINE INDICATED HAS BEEN TAKEN FROM PLANS ON PUBLIC RECORD.

INCLINATOR SPECIFICATION

TRACK LENGTH: NOM. 21.44 METRES AT 39.89 DEGREES
CAPACITY: TWO PERSON OR 136 KG.
CONTROL: 24 VOLT CONTROLS FROM EACH LANDING AND ON THE CAR, MARKED UP, DOWN AND STOP
FOUNDATIONS: AS SPECIFIED IN DRAWING NO. 4355-SK1 & SK2
LOCATIONS TO BE CONFIRMED ON SITE
4.5 MAX. DISTANCE BETWEEN FOUNDATIONS

INCLINATOR LANDING AND CLEARANCE DETAILS

EACH LANDING MUST COMPLY WITH THE FOLLOWING CRITERIA.

1. THE GAP BETWEEN LANDING SILLS AND THE LIFT MUST BE BETWEEN 100 AND 120MM.
2. ALL OTHER OBJECTS INCLUDING LANDING GATES AND HANDRAILS MUST BE AT LEAST 225 MM AWAY FROM THE LIFT.
3. THE LANDING MUST BE LEVEL WITH THE FLOOR OF THE LIFT WHEN IT IS AT THE LANDING.
4. THE LANDING MUST BE A MINIMUM 600MM X 600MM.
5. THE LANDING MUST BE WELL ILLUMINATED.
6. LANDING CONTROL STATIONS MUST BE LOCATED ON THE LANDINGS SO THAT ALL OTHER LANDINGS ARE VISIBLE WHEN SOMEONE IS OPERATING THE CONTROLS ON THE LANDING.
7. MINIMUM END CLEARANCE AT TOP AND BOTTOM STATIONS TO BE 400MM

THE COUNCIL OF PITTSWATER
APPROVED
DEVELOPMENT CONSENT PLAN

DESIGN BY YSCO GEOMATICS 4/114 HAMPDEN ROAD ARTARMON NSW 2064 Phone. (02) 9419 8222	Reduction Ratio AS SHOWN Datum A.H.D.	AMENDMENTS Date A B C D	Date 23 MAY, 2003 REGISTERED SURVEYOR <i>[Signature]</i>	P. R. KING & SONS PTY. LTD. 155 VICTORIA ROAD MARRICKVILLE 2204 A.C.N. 000 134 547	OWNER ROBERT C. GILMAN ADDRESS No.975 BARRENJOEY ROAD PALM BEACH	LGA PITTSWATER PLAN No. 10202/5 DA No.	DESIGN OF PROPOSED INCLINATOR WITHIN LOT 1 IN D.P.205296	SHEET No. 1 OF 2 SHEETS
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BARRENJOEY
ROAD



DESIGN OF PROPOSED INCLINATOR WITHIN LOT 1 IN D.P.205296