

Telephone 1300 663 215  
Facsimile (02) 9659 1633  
PO Box 6160  
Baulkham Hills BC NSW 2153



R Moy & Associates Pty Ltd  
T/as Greenfield Accredited Certifiers  
ACN 100 924 605  
ABN 23 100 924 605

## Construction Certificate

**COUNCIL COPY**

CONSTRUCTION  
CERTIFICATE NUMBER

CC2006-07130

Issued in accordance with the Environmental Planning & Assessment Act 1979 under sections 109C(1)(b) and 109F.

COUNCIL:

### APPLICANT

Name Fitzpatrick, Andrea  
Address 25 Altair Place, PENRITH 2750  
Contact no (telephone/fax)

### OWNER

Name Fitzpatrick, Andrea  
Address 25 Altair Place, PENRITH

### SUBJECT LAND

Address 107 Wimbledon Avenue, NARRABEEN 2101  
Lot No  
DP - 17768

Greenfield Accredited Certifiers Certificate No. CC2006-07130

R: 185748  
\$30—  
8m B.  
2/2/06

**DESCRIPTION OF DEVELOPMENT**

Type of Work



Building work



Subdivision work

Description

New Dwelling &amp; Swimming Pool

**COUNCIL'S D/A CONSENT**

Development Consent No

N0074/05

D.A Approval Date

12/09/2005

**BUILDING CODE OF AUSTRALIA****BUILDING CLASSIFICATION**

10b

**BUILDER or OWNER/BUILDER**

Name

Blue Haven Pools &amp; Spas

Contractor Licence No. or

Owner Builder Permit No.

5367C

**\$ VALUE OF WORK**

Building/Subdivision

\$25,000.00

**DATE CC APPLICATION RECEIVED**

Date Received

24/01/2006

**DETERMINATION**

Decision

Approved

Date of Decision

30/01/2006

**ATTACHMENTS**

Home Owners Warranty Insurance

Land Owners / PCA Form

Long Service Levy Receipt

Council Submission Cheque - \$30.00

Greenfield Accredited Certifiers Certificate No. CC2006-07130

## PLANS AND SPECIFICATIONS

### APPROVED/REFUSED

List plan no(s) and specifications

Reference: Job No 5011. Drawing No. DA-02 Issue C, DA -03 Issue B & DA -04  
Issue B all dated Feb 2005

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### RIGHT OF APPEAL

*under S109K where the Certifying Authority is a Council an applicant may appeal to the  
Land and Environmental Court against the refusal to issue a Construction Certificate  
within 12 months from the date of the decision.*

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### ACCREDITATION BODY

DIPNR, 20 Lee Street, Sydney 2000.

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### CERTIFICATION

I, Kieran Tobin, as the certifying authority am satisfied that:

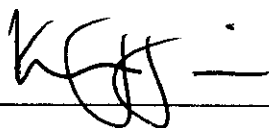
- (a) the requirements of the regulations referred to in s81A(5) have been complied with. That is, work completed in accordance with documentation accompanying the application for this certificate (with such modifications verified by the certifying authority as may be shown on that documentation) will comply with the requirements of the Regulation as are referred to in section 81A (5) of the Act, and
- (b) long service levy has been paid where required under s34 of the Building and Construction Industry Long Service Payments Act 1986.
- 

### CERTIFYING AUTHORITY

|                              |                                     |
|------------------------------|-------------------------------------|
| Name of Certifying Authority | Greenfield Accredited Certifiers    |
| Name of Accredited Certifier | Kieran Tobin                        |
| Accreditation No             | 44                                  |
| Contact No                   | 1300 663 215                        |
| Address                      | PO Box 6160 Baulkham Hills BC 2153. |

SIGNED

DATED

  
30/01/2006

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Greenfield Accredited Certifiers Certificate No. CC2006-07130

# **INFORMATION ON REQUIRED INSPECTIONS**

Please find your Construction Certificate CC2006-07130 enclosed for:

[Lot] 107 Wimbledon Avenue, NARRABEEN 2101

We will be required to carry out the following critical stage inspections:

- Commencement
- Pool Steel
- Pool Fence
- Final

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**TO BOOK AN INSPECTION CALL US ON 1300 663 215  
AND ASK FOR "INSPECTION BOOKINGS"**

**\*\*PLEASE BOOK INSPECTIONS BEFORE 3.00PM THE DAY  
PRIOR TO THE INSPECTION\*\***

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## **Contact Personnel**

Bec Broker

To check the status of your job contact:

For technical enquiries contact:  
Kieran Tobin



**COUNCIL COPY**

## **Greenfield Accredited Certifiers**

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### **Construction/Complying Development Certificate Application Form** *Issued under the Environmental Planning & Assessment Act 1979*

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**R Moy & Associates Pty Ltd**

Trading as Greenfield Accredited Certifiers

ACN 100 924 605

ABN 23 100 924 605

Postal Address: PO Box 6160 Baulkham Hills BC NSW 2153

**Telephone**            **1300 663 215**

**Facsimile**            **9659 1633**

Email enquiries@greenfieldcertifiers.com.au

Website www.greenfieldcertifiers.com.au

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

**CHECKLIST - DOCUMENTS TO ACCOMPANY THIS APPLICATION****For Construction Certificate Applications:**

- ☐ Complete & sign this Application form - builder can sign
- ☒ Completion of Land Owners Form to be signed by ALL owners
- ☒ 1 copy of Council DA approved plans
- ☒ 1 copy of Council development consent
- ☒ 3 copies of architectural plans with amendments satisfying conditions
- ☒ 3 copies of building specifications
- ☒ If using a licensed builder - copy of Home Owners Warranty Insurance if work is valued over \$12,000 (N/A for commercial or industrial development)
- ☐ If not using a licensed builder - copy of Owner-Builder permit if work is valued over \$5,000 (N/A for commercial or industrial development)
- ☒ Proof of payment of Long Service Levy if work is valued \$25,000 or over
- ☒ Cheque made payable to Council for Certificate Registration Fee - schedule of Council fees can be provided on request.

**For Complying Development Applications:**

- ☐ Complete & sign this Application form - builder can sign
- ☐ Completion of Land Owners Form to be signed by ALL owners
- ☐ 3 copies of architectural plans
- ☐ 3 copies of building specifications
- ☐ If using a licensed builder - copy of Home Owners Warranty insurance if work is valued over \$12,000 (N/A for commercial or industrial development)
- ☐ If not using a licensed builder - copy of Owner-Builder permit if work is valued over \$5,000 (N/A for commercial or industrial development)
- ☐ Long Service Levy will apply if work is valued \$25,000 or over
- ☐ Copy of relevant Water Authority Approval (if applicable)
- ☐ Cheque made payable to Council for Certificate Registration Fee - schedule of Council fees can be provided on request.

**1. TYPE OF APPLICATION**

I wish to make an application for a:

- ☐ Complying Development Certificate  
*Issued under the Environmental Planning & Assessment Act 1979 sections 85 and 85A*

- ☒ Construction Certificate  
*Issued under the Environmental Planning & Assessment Act 1979 sections 109C(1)(b), 81A(2) & 81A(4)*

|                                                        |            |
|--------------------------------------------------------|------------|
| Class of building under the Building Code of Australia | 10b.       |
| Development application no.                            | N0074 / 05 |
| Date which development consent was granted             | 12.9.05    |

**2. DETAILS OF THE APPLICANT**

|                   |                    |          |      |
|-------------------|--------------------|----------|------|
| Applicant Name    | ANDREA FITZPATRICK |          |      |
| Or Company        |                    |          |      |
| Applicant Address | 25 ALTAIR PLACE    |          |      |
|                   | PENRITH            | Postcode | 2750 |
| Phone: 47322491   | Fax:               | Email:   |      |

**3. BILLING DETAILS (if different from Applicant)**

|                  |
|------------------|
| Bill To: ABOVE   |
| Billing Address: |

Note: Applicant will be liable for payment of our fees if funds cannot be recovered from the above

**4. DETAILS OF THE OWNER(S)**

|                |                    |          |  |
|----------------|--------------------|----------|--|
| Owner/s Name   | ANDREA FITZPATRICK |          |  |
| Or Company     |                    |          |  |
| Owners Address | AS ABOVE           |          |  |
|                |                    | Postcode |  |
| Phone:         | Fax:               | Email:   |  |

**5. IDENTIFY THE LAND YOU PROPOSE TO DEVELOP**

|              |                   |           |       |
|--------------|-------------------|-----------|-------|
| Site Address | 107 WIMBLEDON AVE |           |       |
|              | NARRABEEN         | Postcode  | 2101  |
| Lot no.      | 1                 | DP/SP no. | 17768 |
| Council Area | PITTWATER         |           |       |

**6. DETAILS OF THE PROPOSED DEVELOPMENT**

|                                             |                               |  |  |
|---------------------------------------------|-------------------------------|--|--|
| Description of work to be carried out       | CONSTRUCTION OF CONCRETE POOL |  |  |
| Estimated cost of development including GST | \$ 25 000                     |  |  |

**7. DETAILS OF THE BUILDER**

|                                                 |                  |          |      |
|-------------------------------------------------|------------------|----------|------|
| Licensed Builder Name, or Owner Builder Name    | BLUE HAVEN POOLS |          |      |
| Builder License No. or Owner Builder Permit No. | 5367C            |          |      |
| Builders Address                                | 68 HUME HWY      |          |      |
|                                                 | LANGVALE NSW     | Postcode | 2166 |
| Phone: 9728 2905                                | Fax: 9728 0400   | Email:   |      |

**8. PLANS & SPECIFICATIONS**

|                                                                                   |                                                                                           |
|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------|
| List plan numbers & specification reference details included in this application: | Job No 5011. Drawing No. DA-02 Issue C<br>DA-03 Issue B DA-04 Issue B all dated Feb 2005. |
|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------|

Please continue to next page for signing

**AUSTRALIAN BUREAU OF STATISTICS SCHEDULE – compulsory**

Please complete this schedule. The information will be sent to the Australian Bureau of Statistics.

**All new buildings**

|                                                      |  |
|------------------------------------------------------|--|
| • Number of storeys (incl underground floors)        |  |
| • Gross floor area of new building (m <sup>2</sup> ) |  |
| • Gross site area (m <sup>2</sup> )                  |  |

**Residential buildings only**

|                                                                |  |
|----------------------------------------------------------------|--|
| • No. of dwellings to be constructed                           |  |
| • No. of pre-existing dwellings on site                        |  |
| • No. of dwellings to be demolished                            |  |
| • Will the new dwelling/s be attached to other new buildings ? |  |
| • Will the new building(s) be attached to existing buildings ? |  |
| • Does the site contain a dual occupancy ?                     |  |

**Materials – Residential Buildings**

| WALLS                  | FLOOR              | FRAME            | ROOF             |
|------------------------|--------------------|------------------|------------------|
| Brick Veneer           | Aluminium          | Timber           | Concrete         |
| Full Brick             | Concrete           | Steel            | Timber           |
| Single Brick           | Concrete Tiles     | Aluminium        | Other (describe) |
| Concrete Block         | Fibrous Cement     | Other (describe) |                  |
| Concrete Masonry       | Fibreglass         |                  |                  |
| Concrete               | Masonry Shingle    |                  |                  |
| Steel                  | Terracotta Shingle |                  |                  |
| Fibrous Cement         | Tiles – other      |                  |                  |
| Hardiplank             | Slate              |                  |                  |
| Timber/Weatherboard    | Steel              |                  |                  |
| Cladding/Aluminium     | Terracotta Tiles   |                  |                  |
| Curtain Glass          | Other (describe)   |                  |                  |
| Other (describe below) |                    |                  |                  |

CC/CDC No. **2006 7130**DA No. **N0074/05****SIGNATURES**

The applicant must sign the application.

Applicant Signature

x *A Fitzpatrick*

Date



## Policy Schedule / Certificate of Insurance

Underwritten by Australian International Insurance Ltd. (ABN 29 006 544 690) (Insurer)

**OWNER COPY**

### HOME WARRANTY - JOB SPECIFIC POLICY (NSW) - Owner Copy

This certificate, when read in conjunction with the Policy of Insurance is a contract of insurance complying with: Section 92 in respect of CONTRACT WORK, or Section 93 in respect of SUPPLY OF A KIT HOME, or Section 95 in respect of OWNER BUILDER Work, or Section 96 in respect of WORK BY DEVELOPERS AND OTHERS, of the Home Building Act 1989 ('The Act') and/or the Home Building Regulation 1997 ('The Regulations') issued by the Insurer in respect of Residential Building Work performed by the Contractor in line with the Residential Building Work Contract detailed below. Subject to the Act, the Regulation and the conditions of the Contract of Insurance, cover will be provided to the person named as Beneficiary below and Successors in Title to the Beneficiary.

**POLICY No.:** AILL - 001 **CERTIFICATE No.:** 086553 **POLICY ISSUED:** 28/02/2005

#### INSURED

**The Building Owner ('Beneficiary'):** A Fitzpatrick  
**Postal Address:** 14 Toparda Close, Casuala NSW 2170

#### RESIDENTIAL BUILDING WORK

**Residential Building Work Covered by this Policy:** Construction of a swimming pool - as per application dated 25/02/2005.  
**At (Site Address):** 107 Wimbildon Avenue, North Narrabeen NSW 2101  
**Municipality:** Pittwater **Contract Date:** 05/02/2005  
**Project Manager:** Ragheb Awadallah **Contract Price:** \$30,670.00  
**Est. Start Date:** 28/02/2005 **Est. Completion Date:** 25/02/2006

#### CONTRACTOR

**Carried out by (Trading Name):** Blue Haven Pools & Spas Pty Ltd  
**Postal Address:** 68 Hume Highway Lansvale NSW 2166  
**ABN / ACN No.:** 22 050 069 193  
**Licence/Contractor No.:** 5367c  
**Phone No.:** 02 9728 0444

#### MAXIMUM AMOUNT OF COVER AND CLAIMS

The limit of liability is \$200,000.00 in aggregate in relation to each Dwelling, or such amount as is determined by the Regulations pursuant to the Act. The period in respect of which Claims may be made commences on the date of the relevant Residential Building Work Contract or date of issue of the Construction Certificate for the relevant work (whichever is the earlier); and expires on the date defined by Section 4 of the Contract of Insurance, provided that the Insured shall have 90 days from expiry of the Period of Insurance in which to notify the Insurer of any matter of which the Insured became aware during the Period of Insurance as existence of grounds for a Claim.

#### CLAIMS EXCESS

The Insured shall bear at his/her/its own risk five hundred dollars (\$500) in respect of each Claim made under this Policy.

#### PREMIUM

Paid by Builder

#### SIGNED BY A PERSON AUTHORISED BY THE INSURER

Australian International Insurance Ltd, Level 1, 369 High Street, Kew VIC 3101 (ABN 29 006 544 690)

*Murray T. Nugent*

Name of the signatory for Australian Home Warranty,  
a division of Australian Underwriting Services Pty Ltd

Pittwater Council

OFFICIAL RECEIPT

3/01/2006 Receipt No 184436

To T D & AT Fitzpatrick

14 Topparda Close  
Churchill Gardens NSW 2170

| Applic Reference          | Amount     |
|---------------------------|------------|
| GL Re QLSL-Buil           | \$1,680.00 |
| 1 x NO074/05 107 Wimbledd |            |

Total: \$1,680.00

Amounts Tendered

|             |            |
|-------------|------------|
| Cash        | \$0.00     |
| Cheque      | \$1,680.00 |
| Db/Cr Card  | \$0.00     |
| Money Order | \$0.00     |
| Agency Rec  | \$0.00     |
| Total       | \$1,680.00 |
| Rounding    | \$0.00     |
| Change      | \$0.00     |
| Nett        | \$1,680.00 |

Printed 3/01/2006 12:37:21

Cashier ADorri

710338 99 15th - 4th 353H - 10R

**FOR:TIM FITZPATRICK**

Lot 1, D.P.17768, No.107 Wimbleson Avenue, Narrabeen, NSW  
Scale 1:125 - Date: FEB. 2005 - Designed: L.Rizzo - JobNo: 5011

Officer: Kieran Tobin  
Accreditation No: 44

Officer Kieran Tobin  
Accreditation No: 44

**URBANform**  
D.E.S.I.G.N.S.  
FOR THE  
CITY

APR 19 06 2011 7:01

**LOUIS RIZZO** *Black History 411B*

LOUIS RIZZO Black Hawk, Wis.  
3 MOON SLAVE

2 MORN CLOSE  
GREENFIELD PARK NEW

GREENFIELD PARK, NEW  
AUSTRIA, 2178

AUSTRIA, 2178  
PHONE: 197 200 777

PHONE: (02) 0023-0300  
FAX: (03) 0000-0000

Phone: (02) 8023-0300  
Fax: (02) 8023-4117  
E-Mail: [info@stef.com.au](mailto:info@stef.com.au)

**E-Mail:** [info@stapform.com](mailto:info@stapform.com), [buy](mailto:buy)

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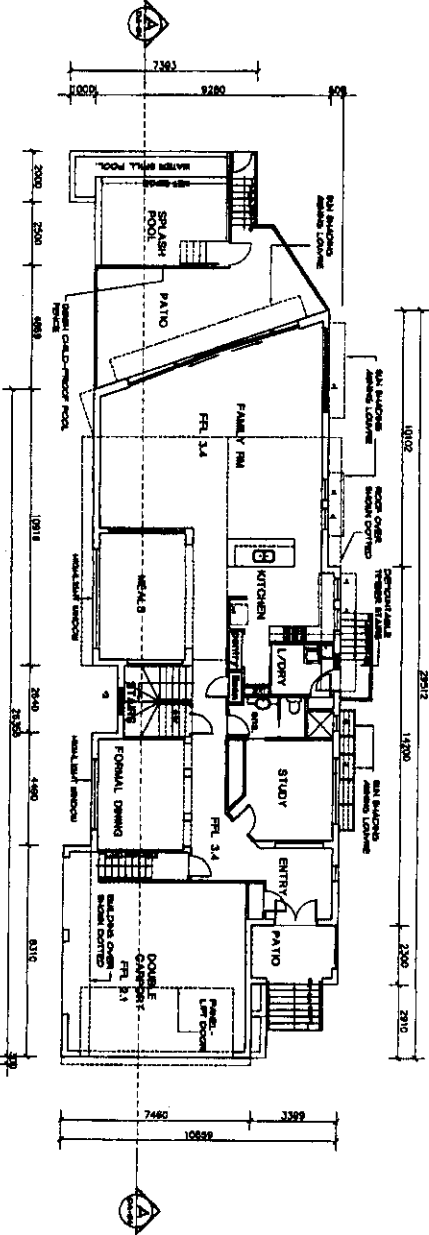
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DA-02

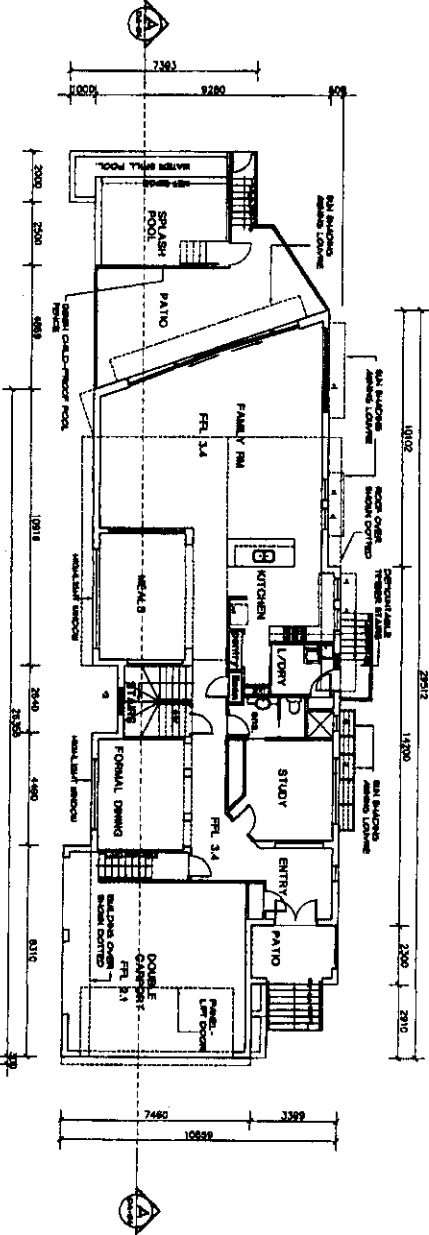
● 〇

**PITTSBURGH WATER COUNCIL**  
**APPROVED DEVELOPMENT CONSENT PLANS**

#### NOTES



### 4 - CLASS ROOM PRESENTATION



**FOR:TIM FITZPATRICK**

Lot 1, D.P.17768, No.107 Wimbledon Avenue, Marrabeen, NSW  
Scale 1:100 - Date : FEB. 2005 - Designed : L.Rizzo - Job No: 5011

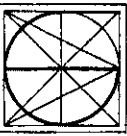
**LOUIS RIZZO** **BAKING UNIT**

2 NORM CLOSE  
GREENFIELD PARK, NSW  
AUSTRALIA, 2176  
PHONE: (02) 9623-8366  
FAX: (02) 8623-4117  
EMAIL: [norm@normclose.com.au](mailto:norm@normclose.com.au)

**2006 7130**

Wishes:  
NOT possible type  
Ode structure - 1 vol. 5 stave  
strong human individual  
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Relationships that should be on a human  
and to cultural's production  
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be controlled is accordance with  
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individual  
dependency element to control with  
control regulations

DA-03



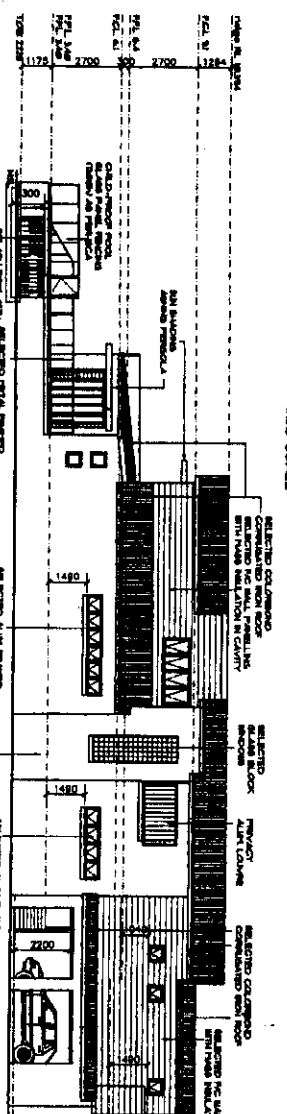
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**PITTSBURGH COUNCIL  
APPROVED DEVELOPMENT CONSENT PLAN**

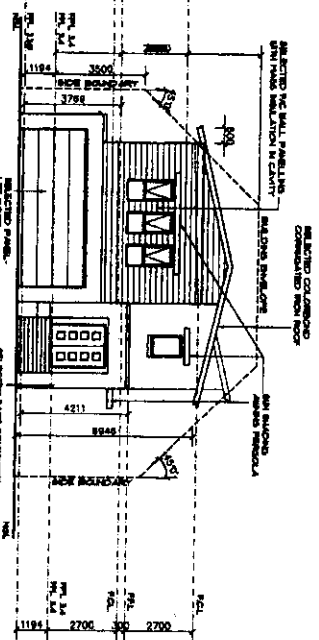


NOTE: THESE PLATES MUST BE READ IN  
CONJUNCTION WITH THE CONDITIONS OF  
EXPOSURE.

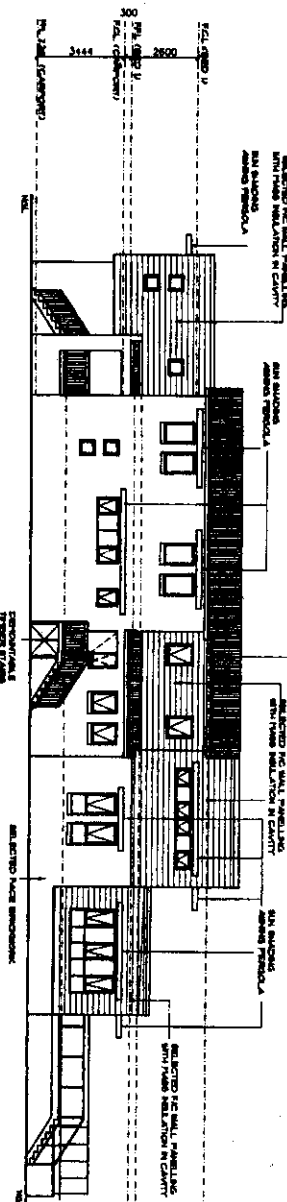
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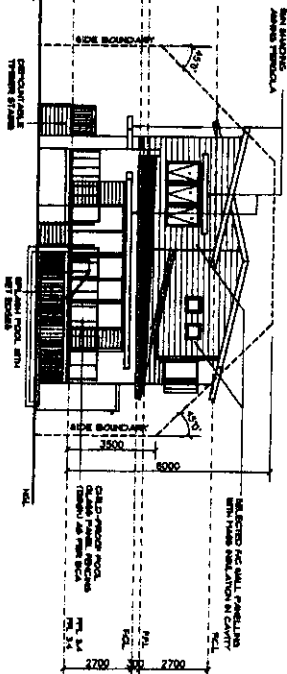
**LINDY BRADLEY**  
• - DIRECTOR, NHTSA



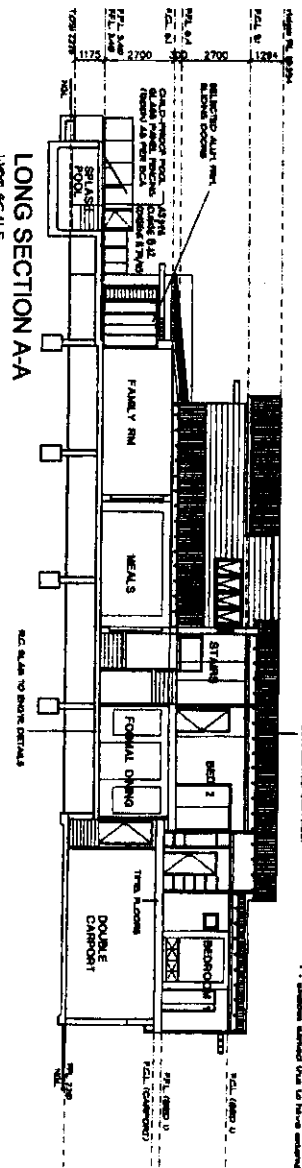
## 1:100 SCALE



• • • • •



## 1:100 SCALE



FOR:TIM FITZPATRICK

Lot 1, D.P. 17708, No. 107 Wimbledon Avenue, Narrabeen, NSW  
Scale 1:100 - Date: FEB. 2005 - Designed: L. Rizzo - Job No: 5011

**D.E.S. 1-G-N-S**  
 Add 19 200 200  
 My Link

LOUIS RIZZO 6644 HAWTH  
3 MOON CLOVE

AUSTRIA, 2178

EMAIL: [holte@freesurf.com](mailto:holte@freesurf.com) and  
 FAX: (02) 3823-0197

DA-04

**INVESTIGATION**

IN ORDER TO BE RECORDED IN  
COLUMBIA COUNTY CLERK'S OFFICE

CERT NO. **2006 7130**

OCT 18 1906 TODAY  
APPROVED BY J. A. 44

POOL PLAN  
1:100



PROPOSED SWIMMING POOL STRUCTURAL DETAILS  
FOR Mrs Fitzpatrick  
AT 107 Wimbeldon Avenue NORTH NARRABEEN

**kei** **Keighran and Associates Pty Ltd**  
Consulting Structural and Civil Engineers  
ABN 25 003 832 291  
APPROVED *S. Keighran* DATE 16 / 03 / 05  
BE (Hons), MEngSci, FIEAust, CPEng  
Registered NPER 3719 (Structural & Civil)

**BLUE HAVEN POOLS & SPAS PTY LTD**

---

Site Plan & Pool Plans prepared by Blue Haven Pools & Spas Pty Ltd  
68 Hume Highway Lansvale NSW 2166  
Telephone: (02) 9728 0444 Fax: (02) 9728 0455

**GENERAL**

G1 ALL WORKMANSHIP AND MATERIALS SHALL BE IN ACCORDANCE WITH AS2783 - 1992.

G2 THE SETTING OUT DIMENSIONS SHALL BE CHECKED ON SITE PRIOR TO COMMENCING EXCAVATION.

G3 ANY UNFORSEEN VARIATIONS TO THE ASSUMED SITE CONDITIONS SHALL BE REFERRED TO THE ENGINEER PRIOR TO PROCEEDING.

G4 THE WALKWAYS AND COPINGS HAVE BEEN DESIGNED FOR A LIVE LOAD OF 4kpa.

G5 THE ENGINEER SHALL BE NOTIFIED OF ANY PROPOSED VARIATION TO THIS PRIOR TO PLACING THE REINFORCEMENT.

G6 PRIOR TO EMPTYING THE POOL, THE OWNER SHALL ENSURE THAT ALL EXTERNAL GROUNDWATER HAS BEEN REMOVED FROM THE BASE AND WALLS OF THE POOL.

G7 THE ENGINEER SHALL BE NOTIFIED IF THE POOL IS OUT OF THE GROUND BY MORE THAN 900.

**CONCRETE**

C1 THE DETAILS PRESENTED ON THE FOLLOWING SHEETS COMPLY WITH THE REQUIREMENTS OF AS2783-1992.

C2 ALL WORKMANSHIP SHALL BE IN ACCORDANCE WITH AS3600.

C3 ALL CONCRETE SHALL HAVE A MINIMUM 28 DAY CONCRETE COMPRESSIVE STRENGTH OF 25MPa AND HAVE A MAXIMUM AGGREGATE SIZE OF 10mm AND A MAXIMUM SLUMP OF 80mm UNLESS NOTED OTHERWISE.

C4 WHERE THE POOL IS LOCATED WITHIN 1km OF LARGE EXPANSES OF SALT WATER THE CONCRETE SHELL SHALL HAVE A MINIMUM 28 DAY CONCRETE COMPRESSIVE STRENGTH OF 32MPa.

C5 CONCRETE SIZES SHOWN DO NOT INCLUDE FINISH AND MUST NOT BE REDUCED OR HOLED IN ANY WAY WITHOUT THE APPROVAL OF THE ENGINEER, HOWEVER, THE RADIUS OR CONCRETE THICKNESS MAY BE INCREASED.

C6 UNLESS OTHERWISE NOTED, CLEAR CONCRETE COVER SHALL BE IN ACCORDANCE WITH AS2783-1992.

C7 CONCRETE COVER SHALL BE MAINTAINED BY THE USE OF APPROVED CHAIRS AT APPROXIMATELY 750 CROSS CENTRES.

C8 ALL CONCRETE SHALL BE CURED BY THE OWNER FOR A MINIMUM OF 7 DAYS AFTER POURING BY KEEPING ALL EXPOSED SURFACES WET WITH WATER.

C9 S NOTATION TO REINFORCEMENT DENOTES GRADE 230 DEFORMED BAR.

C10 UNLESS OTHERWISE NOTED, ALL REINFORCEMENT LAPS SHALL BE A MINIMUM OF 500mm.

C11 PROVIDE 10mm CONTROL JOINTS IN THE WALKWAY FINISH AT MAXIMUM 4.000 CENTRES AND AT POINTS OF RE-ENTRANT CORNERS IN PLAN.

C12 PROVIDE 10mm CONTROL JOINTS BETWEEN THE PERIMETER EDGE OF THE POOL AND ALL ABUTTING CONCRETE OR MASONRY FINISHES.

**FOUNDATION**

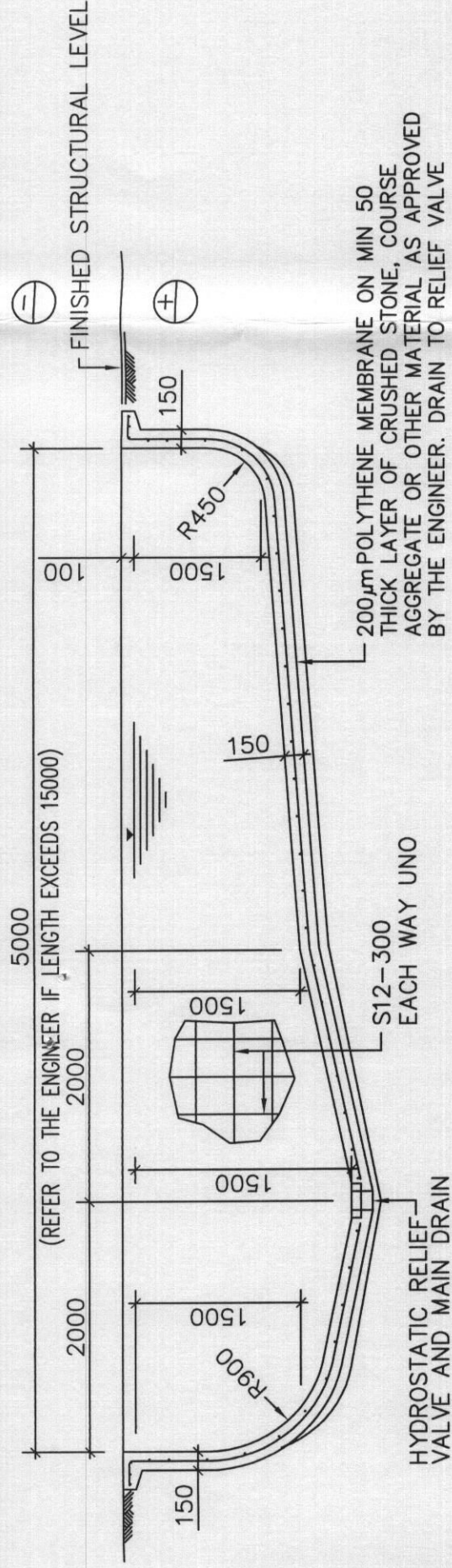
F1 THE DESIGN OF THE POOL HAS BEEN BASED ON BEING SUPPORTED BY UNIFORM NATURAL GROUND WITH A MINIMUM SAFE BEARING VALUE OF 150kPa (UNLESS SHOWN AS SUSPENDED ON PIERS). THE BUILDER SHALL NOTIFY THE ENGINEER IF ANY OTHER GROUND CONDITIONS ARE ENCOUNTERED PRIOR TO COMPLETING THE EXCAVATION. THE BUILDER SHALL ALSO NOTIFY THE ENGINEER IF A CLASS 'H' OR 'E' SUBGRADE IS ENCOUNTERED.

F2 THE EXCAVATION SHALL BE KEPT FREE OF WATER. ANY SOFTENED SUBGRADE MATERIAL SHALL BE REMOVED AND REPLACED WITH COMPACTED GRANULAR FILL PRIOR TO PROCEEDING.

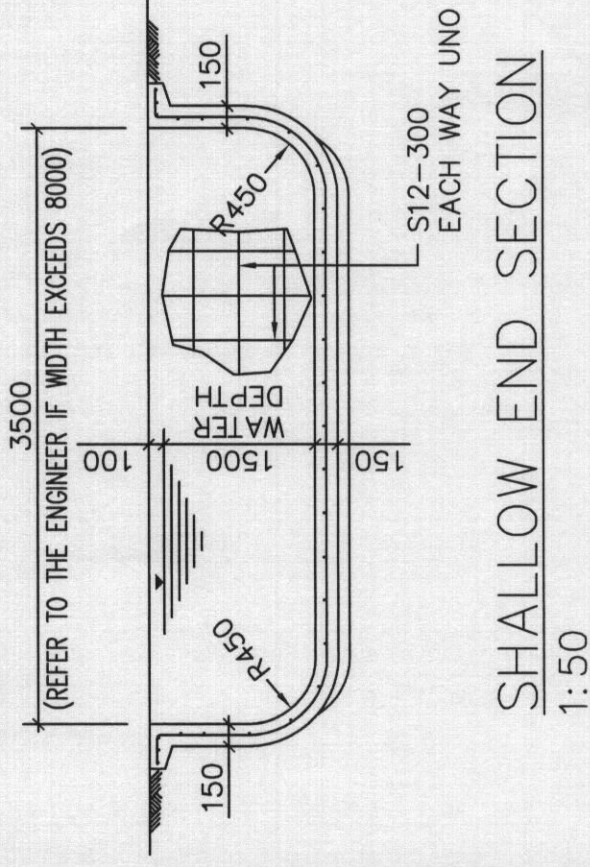
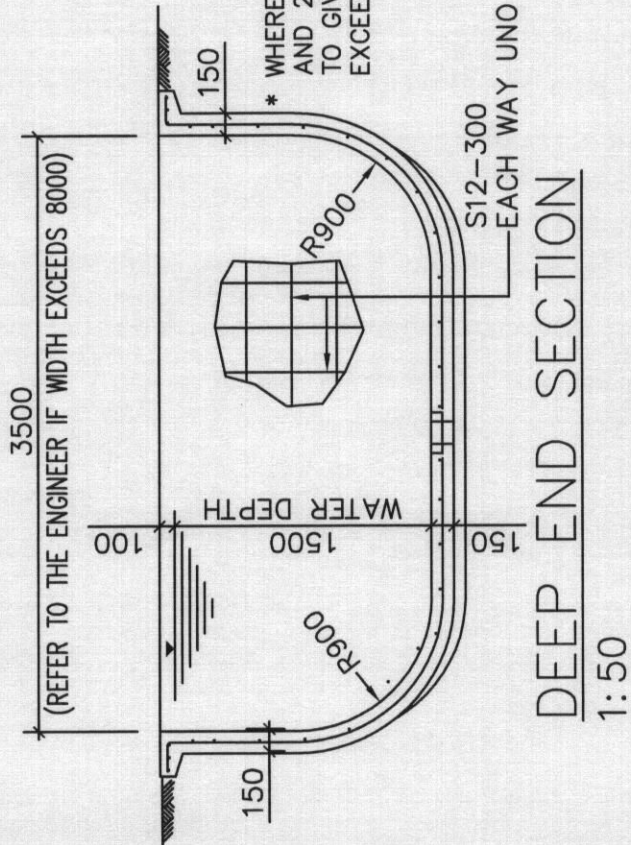
F3 THE UNDERSIDE OF THE POOL SHALL BE SEPARATED FROM THE SUBGRADE WITH A 200µm POLYTHENE MEMBRANE OVER 50 CRUSHED STONE, COURSE AGGREGATE OR OTHER MATERIAL AS APPROVED BY THE ENGINEER.

F4 ANY PROPOSED EXCAVATIONS WHICH ARE TO BE WITHIN THE ZONE OF INFLUENCE OF AN EXISTING STRUCTURE SHALL BE REFERRED TO THE ENGINEER PRIOR TO COMMENCEMENT.

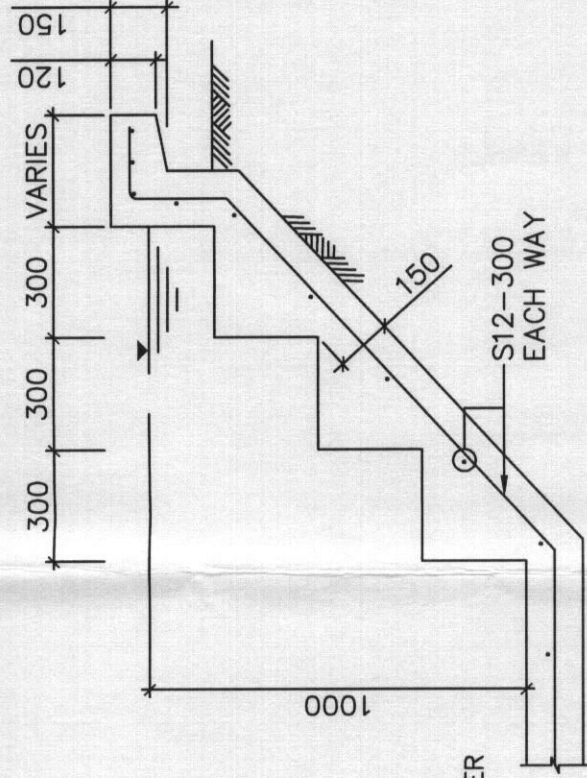
Structural details only certified by:



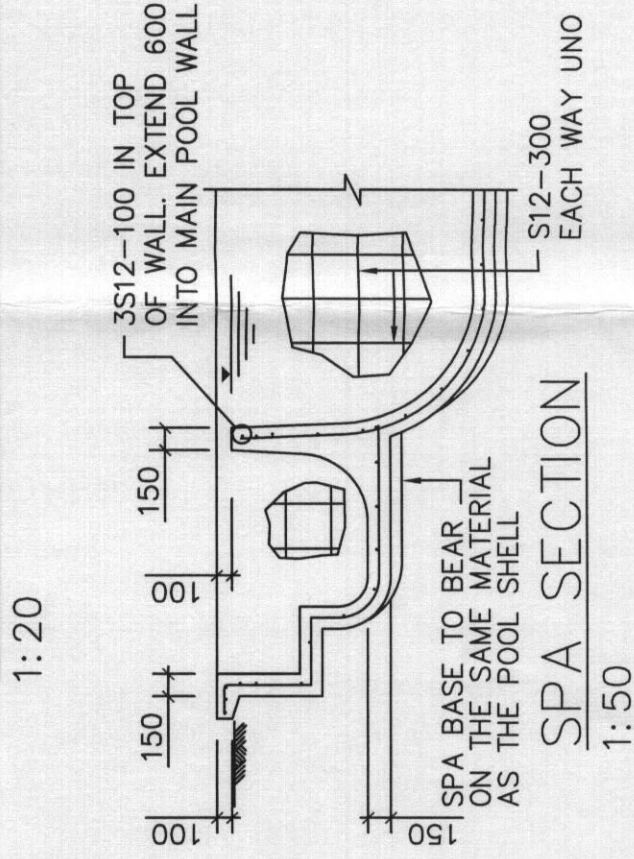
LONGITUDINAL SECTION  
1:50



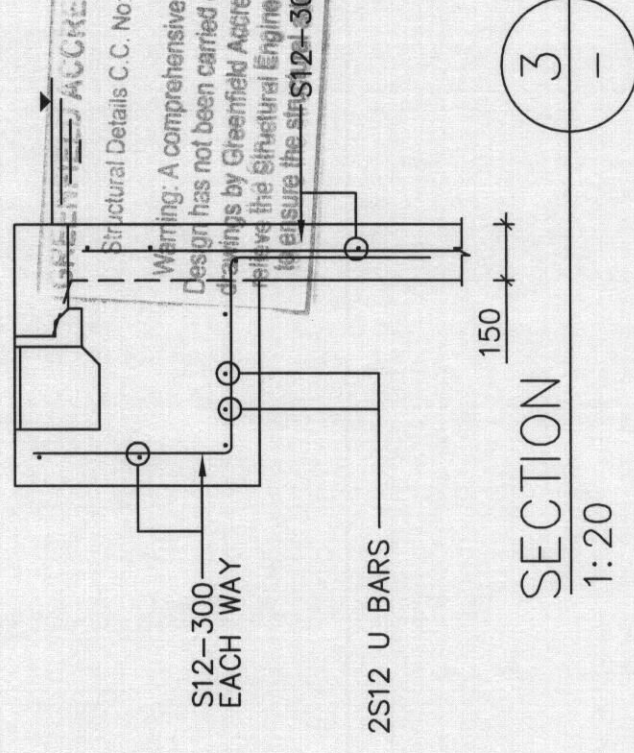
STEPS CAST AGAINST GROUND  
1:20



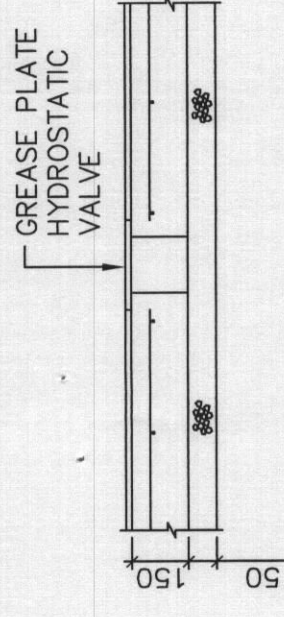
PLAN OF SKIMMER  
1:20



SPA SECTION  
1:50



SECTION  
1:20



HYDROSTATIC VALVE DETAIL  
1:20

LONGITUDINAL BARS AS PER COPING DETAILS CRANKED AS REQUIRED UNDER SKIMMER BOX

STRUCTURAL DETAILS C.C. No. 2006-7130

Warning: A comprehensive check of the Structural Design has not been carried out & the approval of the designs by Greenfield Accredited Certifiers does not relieve the Structural Engineer of their responsibility to ensure the structural integrity of the project.

BLUE HAVEN POOLS & SPAS PTY LTD

Site Plan & Pool Plans prepared by Blue Haven Pools & Spas Pty Ltd  
68 Hume Highway Lansvale NSW 2166  
Telephone: (02) 9728 0444 Fax: (02) 9728 0455

Keighran and Associates Pty Ltd

Consulting Structural and Civil Engineers  
ABN 25 003 832 291  
APPROVED  
DATE 16/03/05  
BE (Hons), MEngSci, FIEAust, CPEng  
Registered NPER 3719 (Structural & Civil)



PROPOSED SWIMMING POOL STRUCTURAL DETAILS

FOR Mrs Fitzpatrick

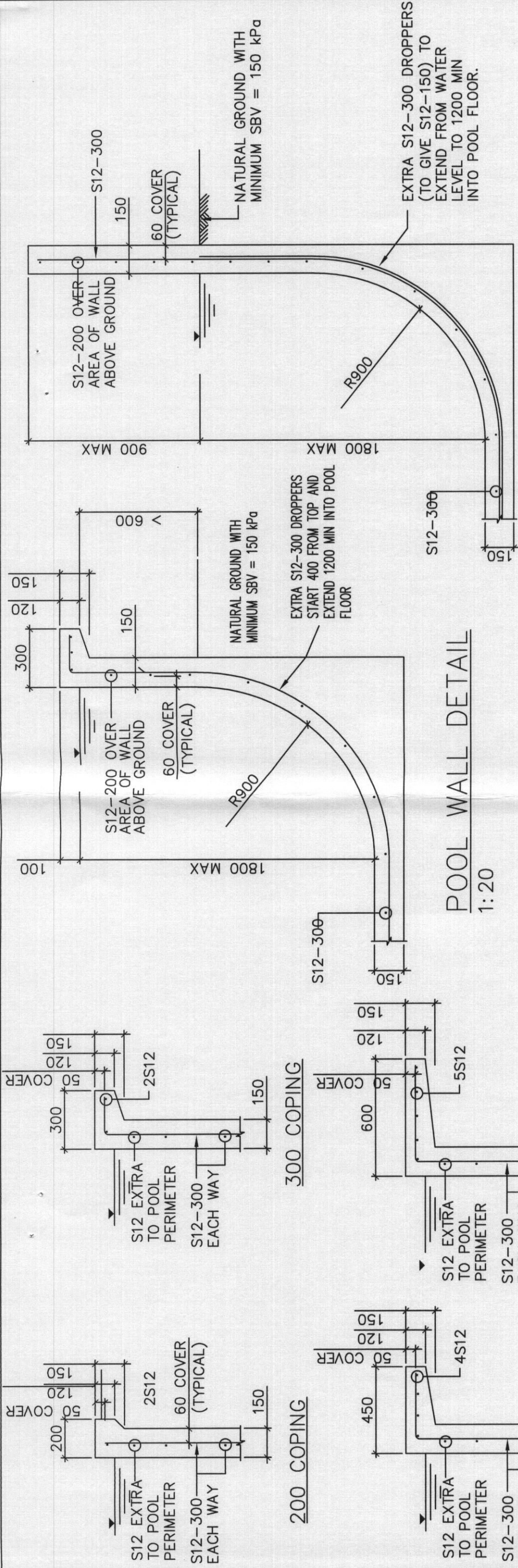
AT 107 Wimbeldon Avenue NORTH NARRABEEN

DATE: 16/03/05

DRAWN: EDH

DRAWING/CONTRACT No.  
BHP 059997SC

SHEET 2 OF 4



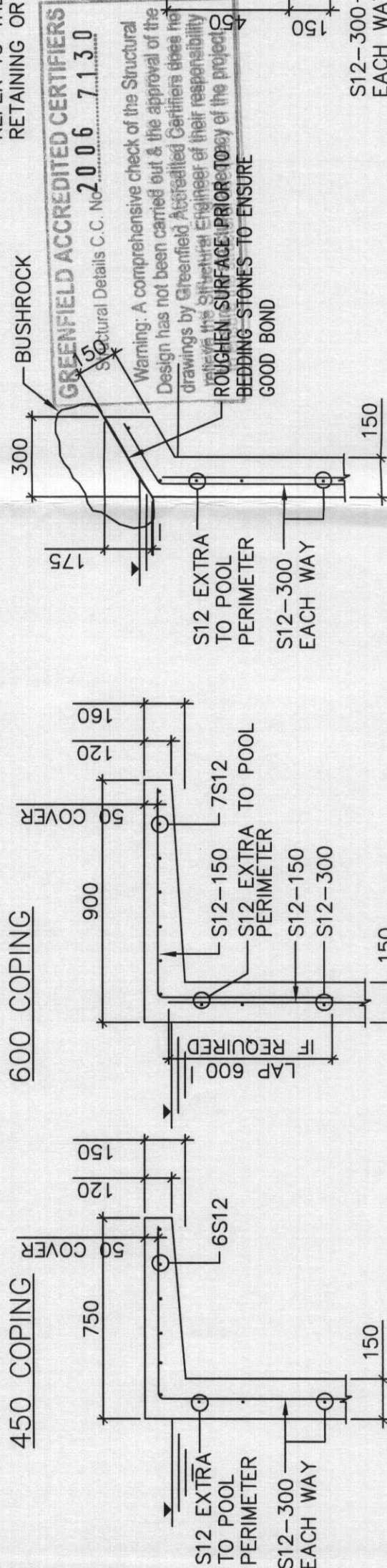
## POOL WALL DETAIL

1:20

REFER TO THE ENGINEER IF THE FEATURE WALL IS TO BE PART  
RETAINING OR IF ITS HEIGHT IS TO EXCEED 900 ABOVE GROUND.

## FEATURE WALL DETAIL

1:20



## 200 COPING

## 300 COPING

## 450 COPING

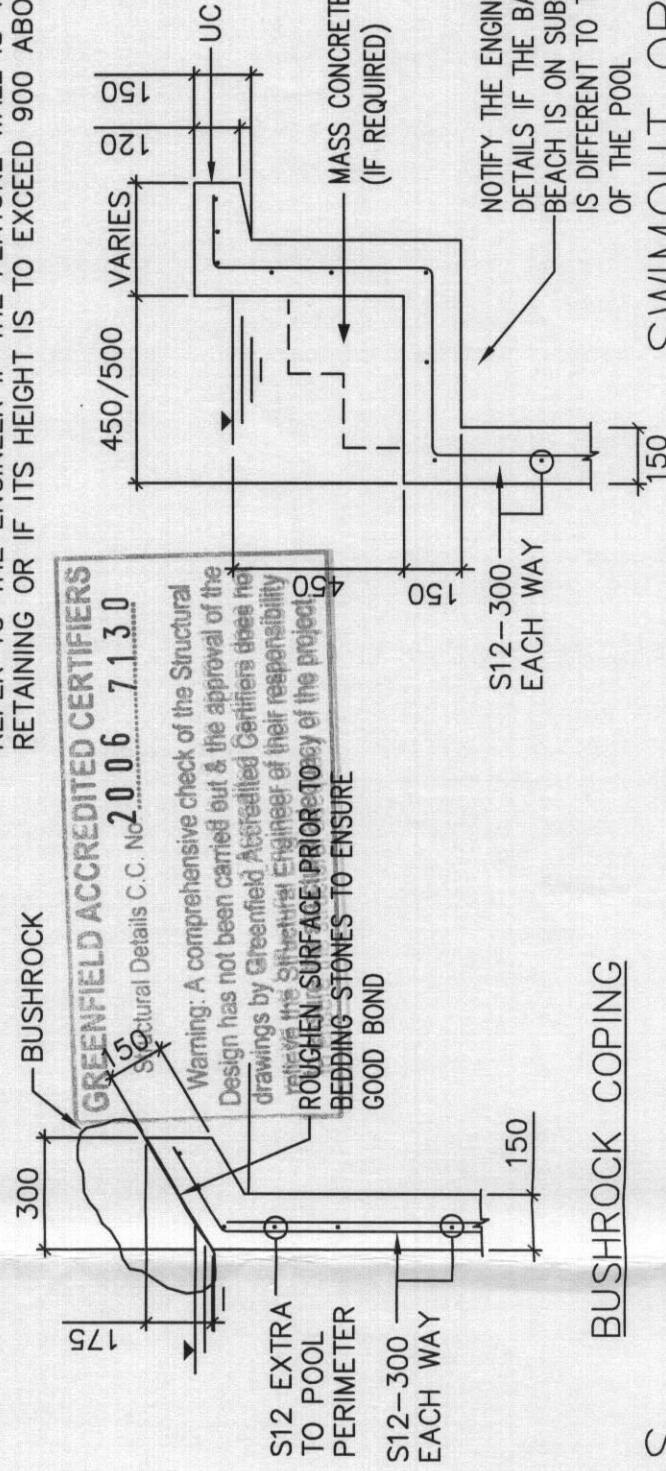
## 600 COPING

## 900 COPING

## BUSHROCK COPING

## COPING DETAILS

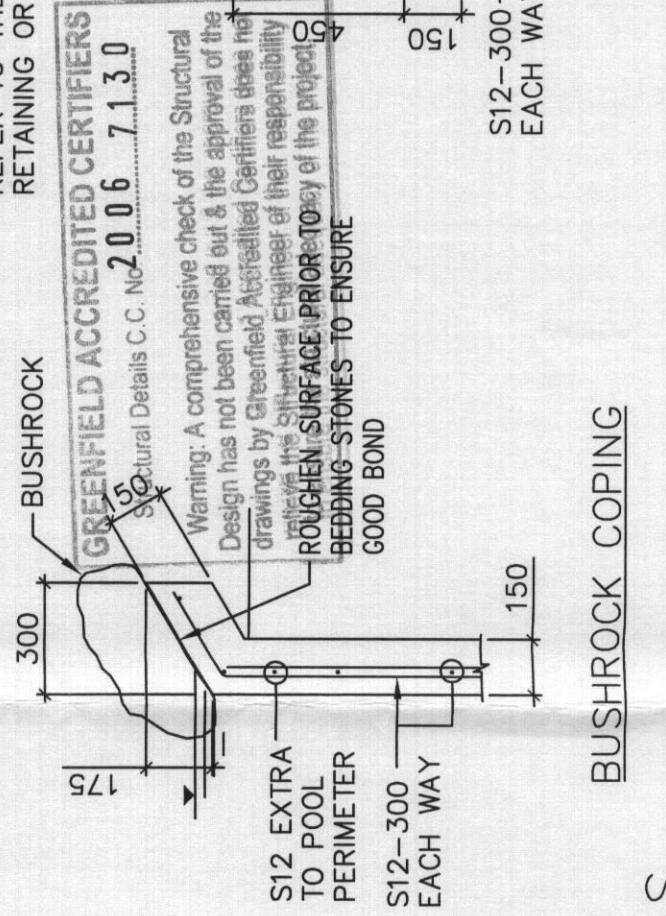
1:20



## BUSHROCK COPING

## SWIMOUT OR BEACH

1:20



NOTIFY THE ENGINEER FOR ADDITIONAL  
DETAILS IF THE BASE OF SWIMOUT OR  
BEACH IS ON SUBGRADE MATERIAL WHICH  
IS DIFFERENT TO THAT BELOW THE BASE  
OF THE POOL

**Keighran and Associates Pty Ltd**

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Suite 1, 491 Princes Highway

Rockdale NSW 2216

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Fax: (02) 9597 7545



PROPOSED SWIMMING POOL STRUCTURAL DETAILS

FOR Mrs Fitzpatrick

AT 107 Wimbeldon Avenue NORTH NARRABEEN

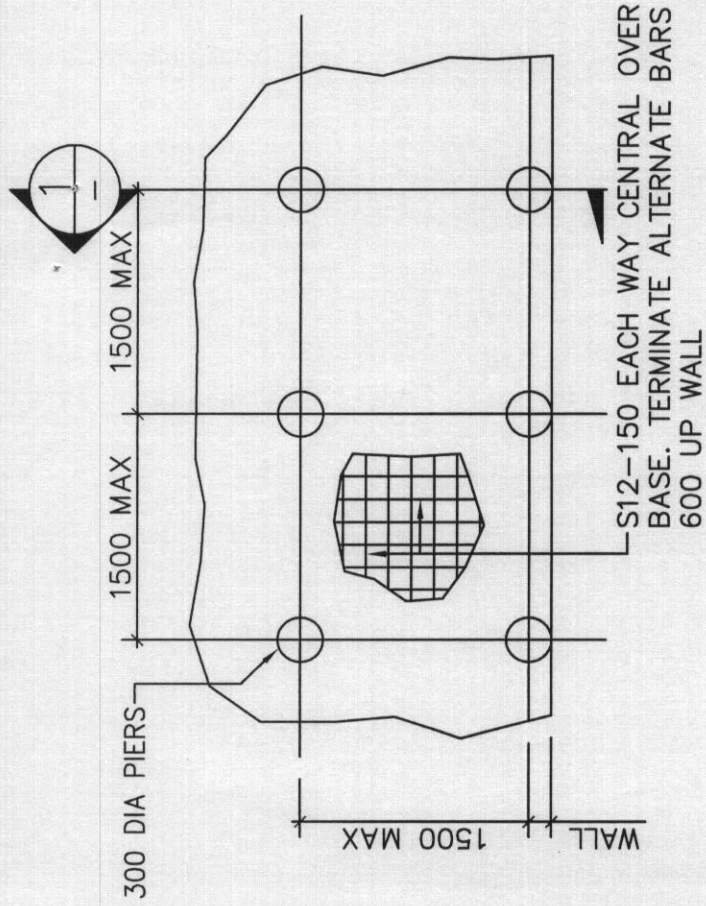
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DRAWN: EDH

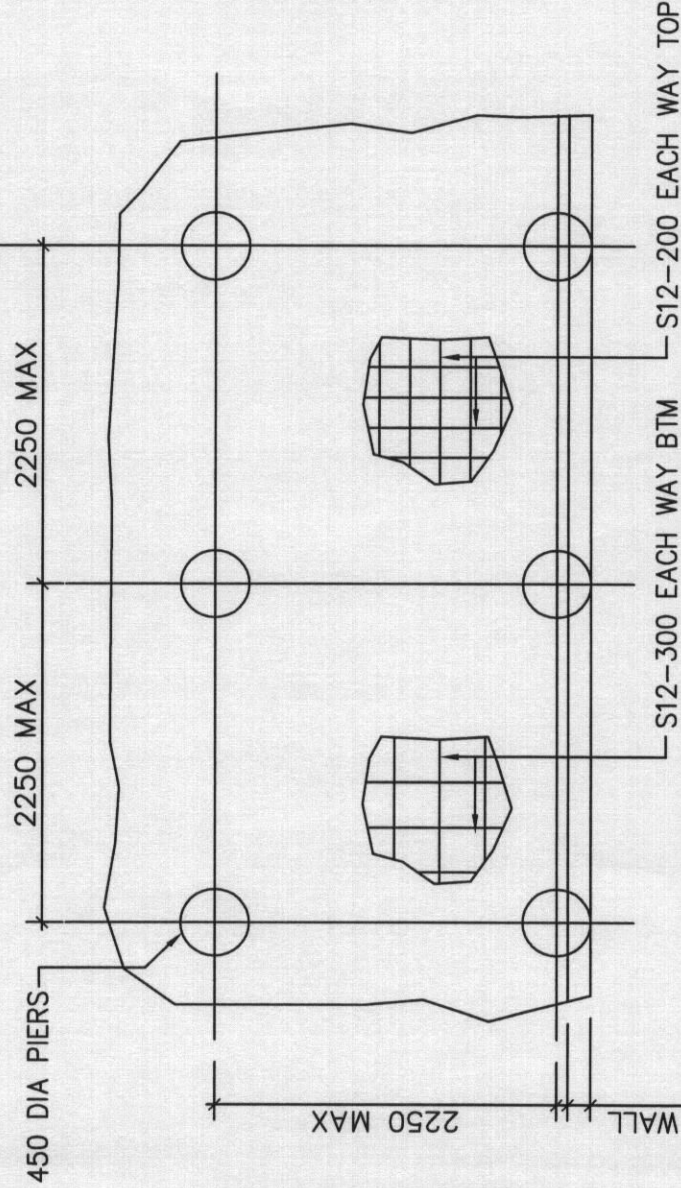
SHEET 3 OF 4

DRAWING/CONTRACT No.

BHP 059997SC



PART PLAN - OPTION 1



PART PLAN - OPTION 2

## SUSPENDED POOL PLANS

PIERS 1:50

F<sub>c</sub> = 20 MPa

60 COVER TO REINFORCEMENT

PIERS TO BE FOUND IN UNIFORM ROCK WITH A SAFE BEARING VALUE OF 800 kPa. REFER TO THE ENGINEER IF DEPTH OF PIERS EXCEEDS 3000

Structural details only certified by:

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PROPOSED SWIMMING POOL STRUCTURAL DETAILS

FOR Mrs Fitzpatrick

AT 107 Wimbeldon Avenue NORTH NARRABEEN

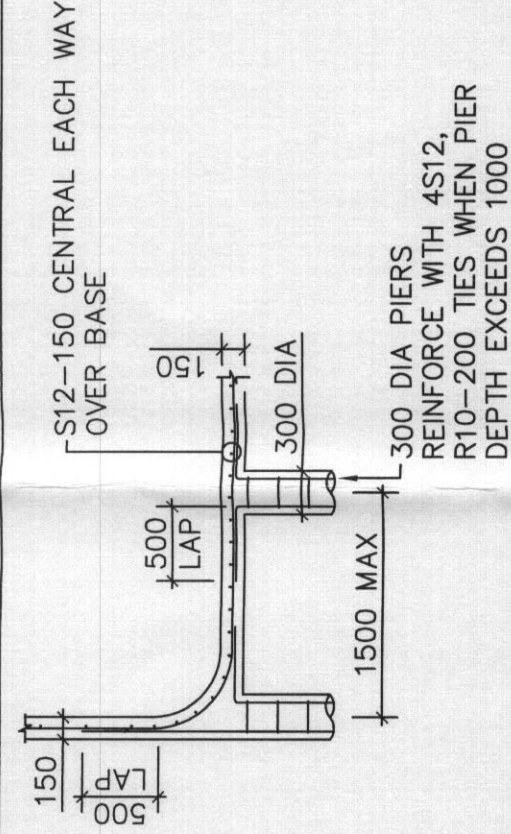
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DRAWN: EDH

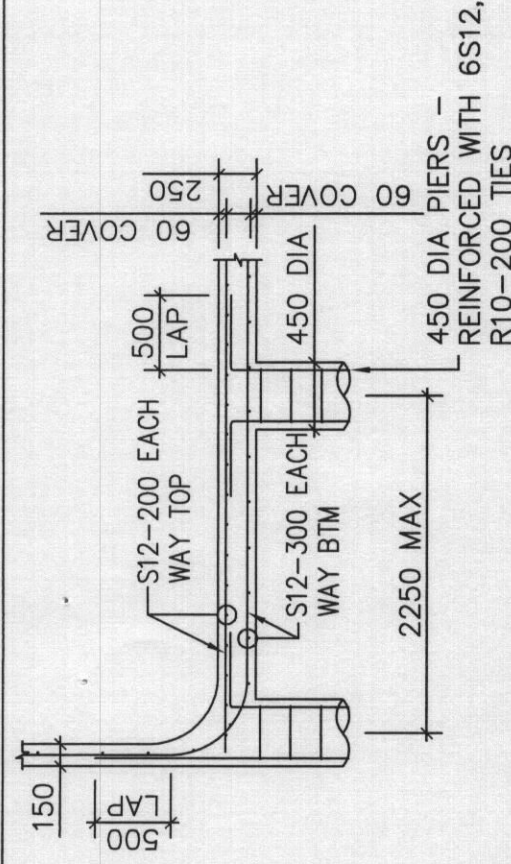
DRAWING/CONTRACT No.

BHP 059997SC

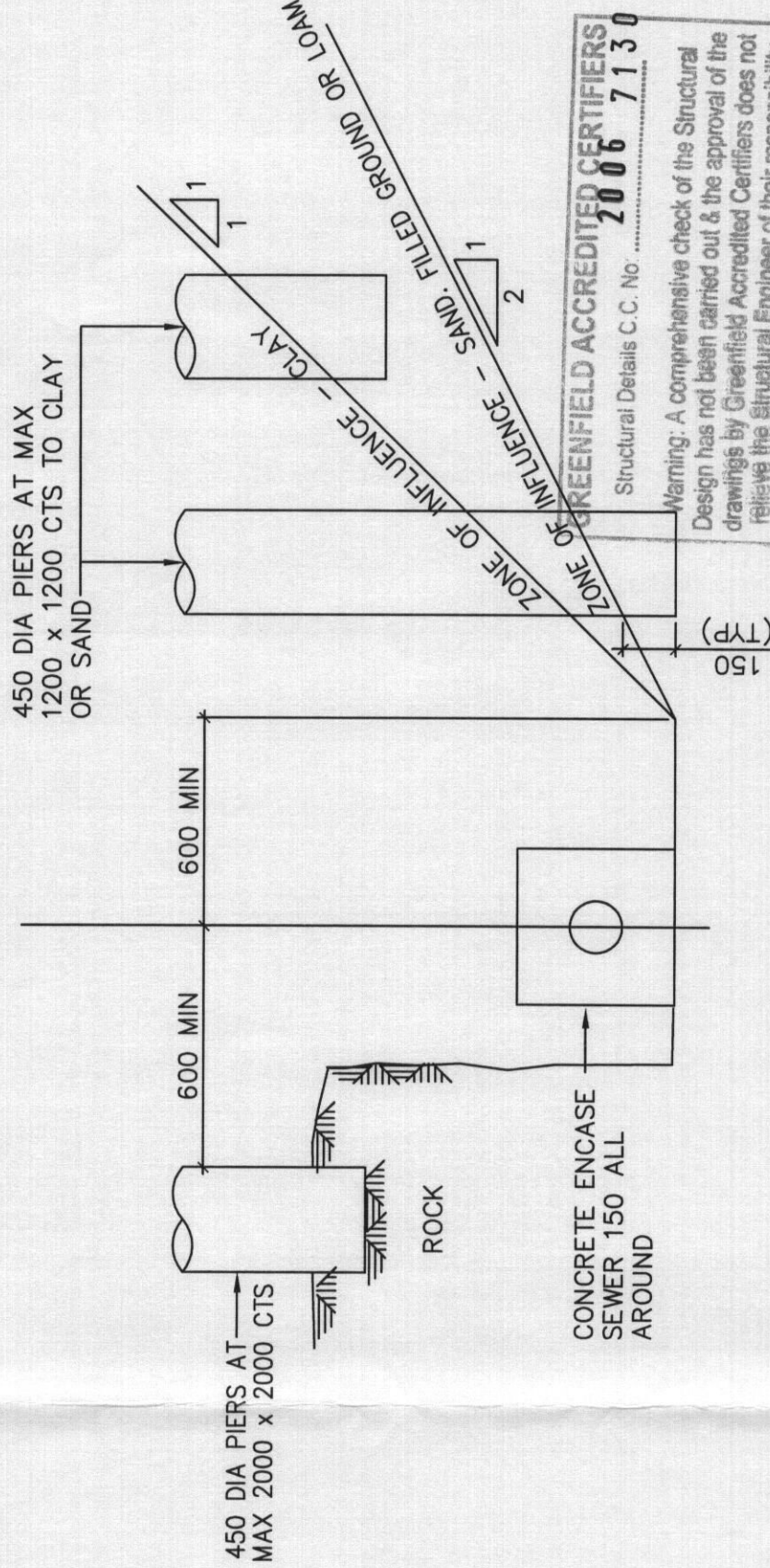
SHEET 4 OF 4



SECTION 1:50



SECTION 2:50



## TYPICAL BUILDING OVER SYDNEY WATER SEWER

1:20

1. CLAY OR SAND TO HAVE A MINIMUM SAFE BEARING VALUE OF 200kPa

2. ROCK TO HAVE A MINIMUM SAFE BEARING VALUE OF 800kPa

3. POOL BASE TO BE AS PER SUSPENDED POOL FOR RELEVANT PIER SPACING

GREENFIELD ACCREDITED CERTIFIERS  
Structural Details C.C. No. 2006 7130

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