

NOTES:

ENGINEERS DETAILS BY STRUCTURAL ENGINEER AT CONSTRUCTION CERTIFICATE STAGE IF REQUIRED.

This drawing not to be scaled. Dimensions to be recognized over scaling.

1.2m Height Child-Proof safety fencing shall be installed where necessary to pool areas to ensure they are enclosed and secure, including self locking gates as required in NSW Swimming Pool Act 1992 & AS 1926.1 - 2007.

Read plans in conjunction with pool sections and details, site survey and other information provided for this DA. Where any anomalies occur between pool drawings and signed pool contract, contract shall take precedence.

Pollution, sediment & erosion control devices as specified shall be in place, and maintained for the duration of the construction period.

Site coverage calculations are nominal for this property.

All works "By Customer" not included in works covered under typical pool builders contract or construction certificate.

SITE COVERAGE CALCULATIONS

AREA OF BLOCK

EXISTING SHED

= 579.8m2

EXISTING

EXISTING RESIDENCE GARAGE / DRIVEWAY PAVED AREAS = 186.4m2 = 67.0m2

= 69.0m2 = 22.6m2

EXISTING IMPERVIOUS AREA = 345.0m2 (59.50%)

PROPOSED POOL: TOTAL POOL AREA

= 33.7m2

MINUS EXISTING SHED = -22.6m2 (PROPOSED TO BE REMOVED)

TOTAL PROPOSED IMPERVIOUS AREA = 356.1m2 (61.42%)





Conzept

Landscape Architects

PO Box 416, CREMORNE 2090 79 Atchison Street, CROWS NEST, NSW 2065

Phone: 9438 1744 www.conzept.net.au Fax: 9438 1766 enquiries@conzept.net.au Mob: 0413 861 351

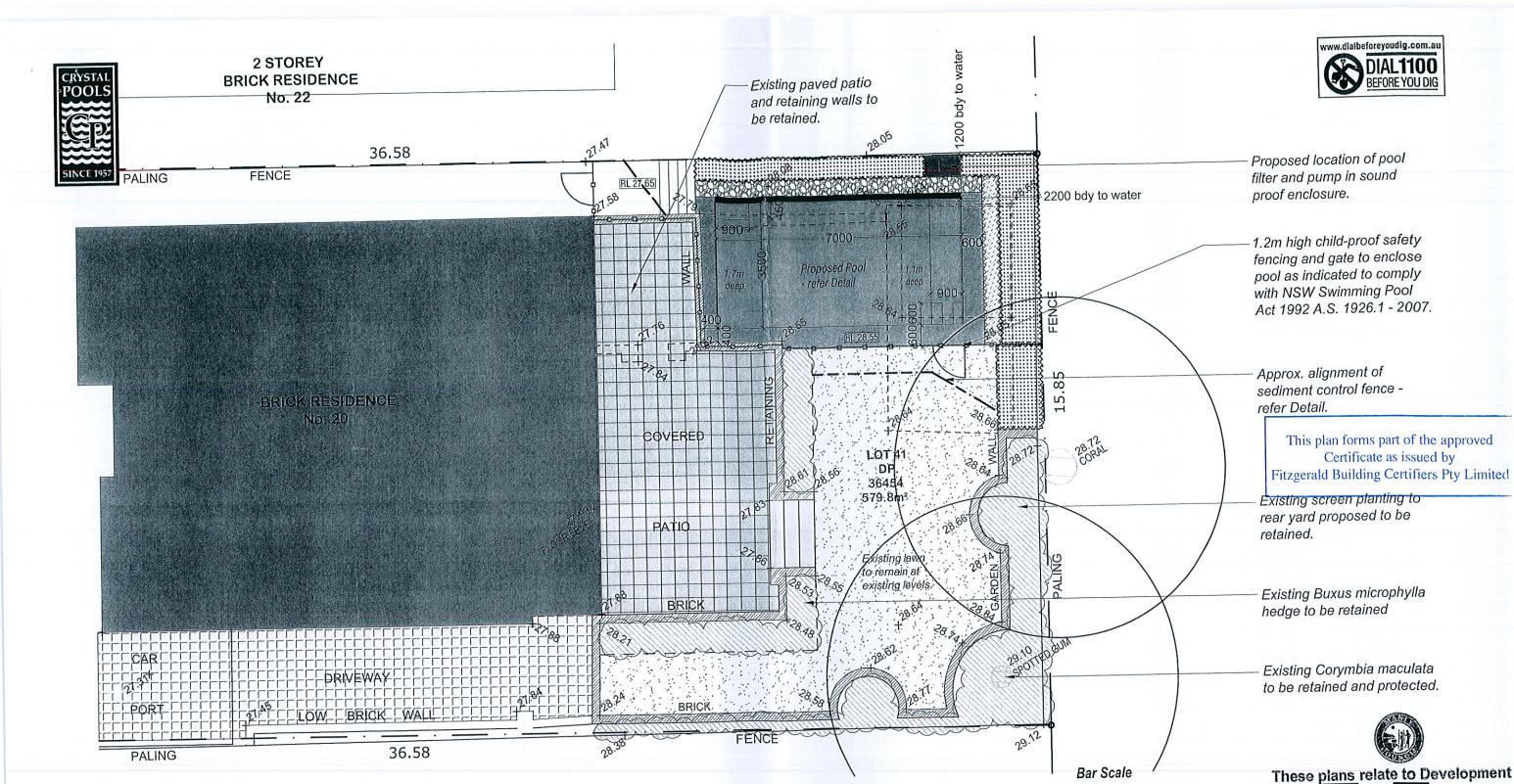
Site Analysis

PROPOSED INGROUND POOL

20 HOGAN ST, BALGOWLAH HEIGHTS

Client: Bruce & Lisa Watt Council: MANLY Scale: 1:200 @ A3 Date: March 2010 Drawing # LPDA 10 - 276 / 1

941



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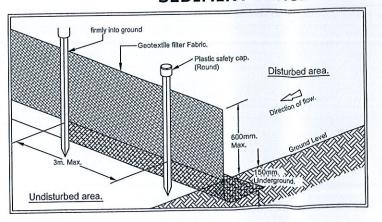
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Site coverage calculations are nominal

All works "By Customer" not included in works covered under typical pool builders contract or construction certificate.

SEDIMENT FENCE n.t.s









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www.conzept.net.au enquiries@conzept.net.au Mob: 0413 861 351 **Erosion Control Plan** PROPOSED INGROUND POOL

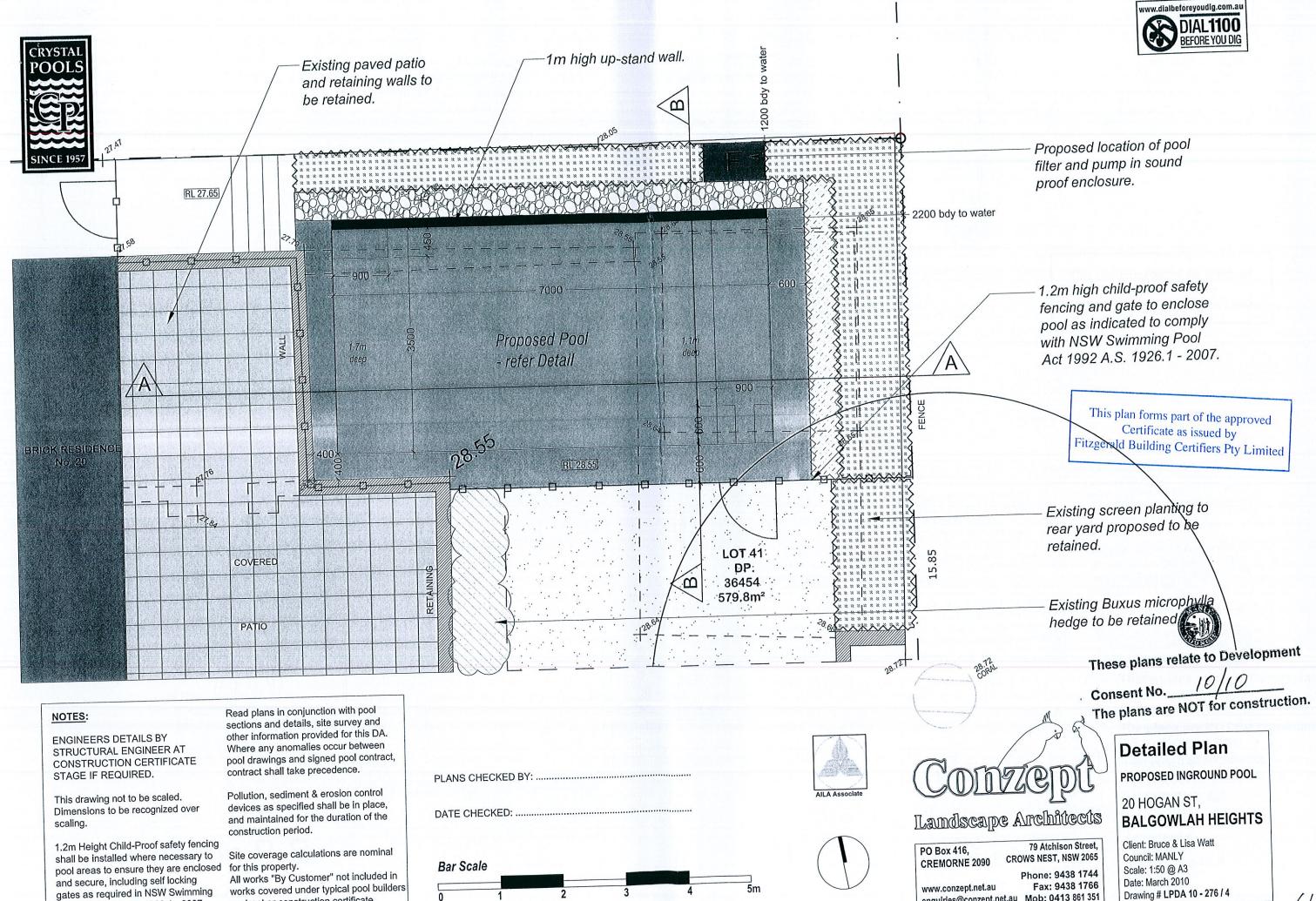
Consent No. 10/10 10m

The plans are NOT for construction.

20 HOGAN ST,

BALGOWLAH HEIGHTS

Client: Lisa Watt Council: MANLY Scale: 1:200 @ A3 Date: March 2010 Drawing # LPDA 10 - 245 / 2



contract or construction certificate.

Pool Act 1992 & AS 1926.1 - 2007.

Drawing # LPDA 10 - 276 / 4

enquiries@conzept.net.au Mob: 0413 861 351



CRYSTAL PTY. PTY. LTD.

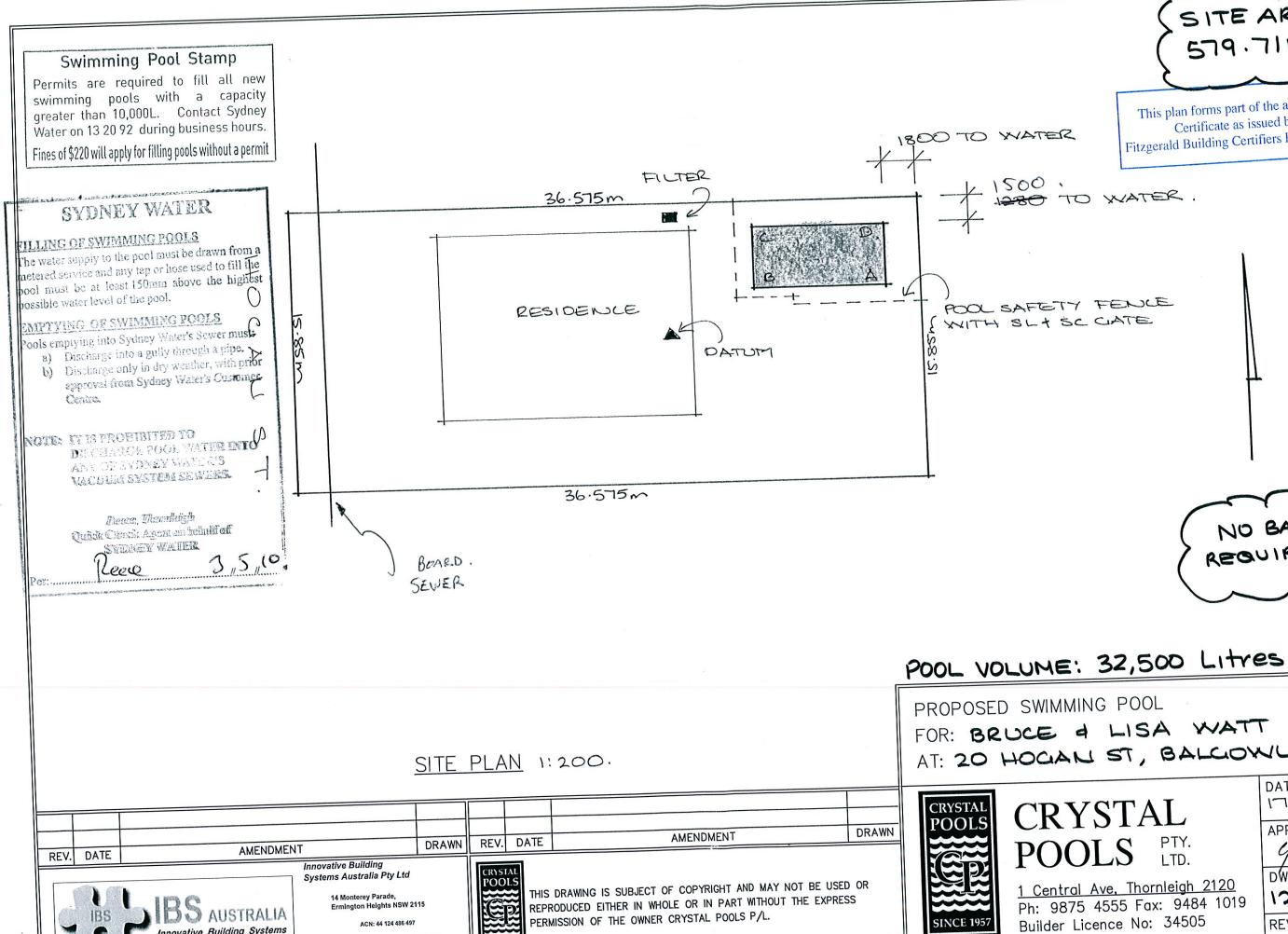
1 Central Ave, Thornleigh 2120

Ph: 9875 4555 Fax: 9484 1019

Builder Licence No: 34505

This is the plan/spec. referred to in Fitzgerald Certifiers Certificate

Paul Fitzgerald Accreditation No BPB 0119



Innovative Building Systems

Fax: 02 9804 8724

SITE AREA 579.71m2

This plan forms part of the approved Certificate as issued by

Fitzgerald Building Certifiers Pty Limited

NO BASIX REQUIRED

AT: 20 HOGAN ST, BALCOWLAH.

Builder Licence No: 34505

DATE 17.11.09.

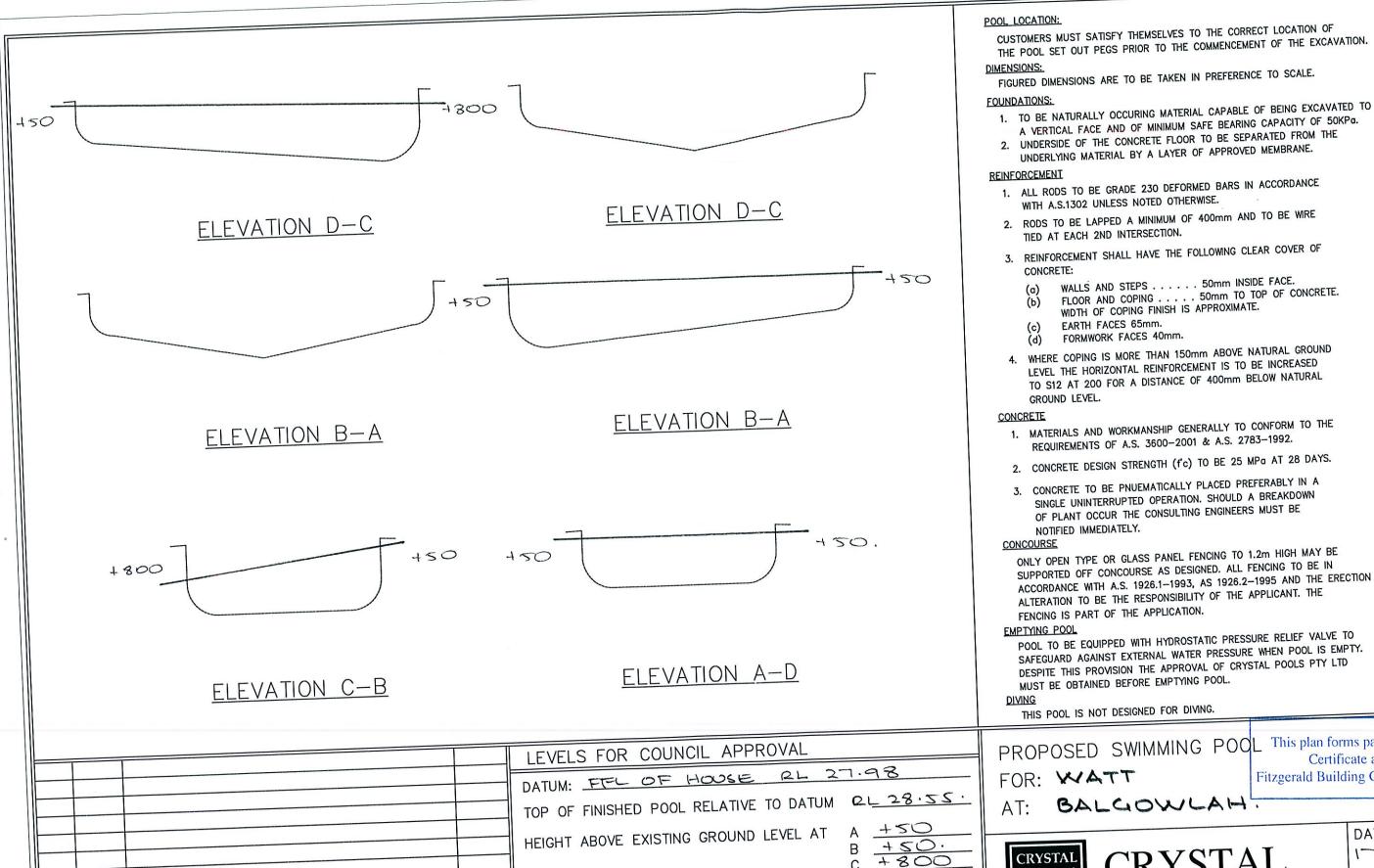
APPROVED

DWG! No. 12132/1

REV.

SINCE 1957

SEPTEMBER 2007





PROPOSED SWIMMING POOL This plan forms part of the approved

THIS POOL IS NOT DESIGNED FOR DIVING.

MUST BE OBTAINED BEFORE EMPTYING POOL.

FENCING IS PART OF THE APPLICATION.

FOR: WATT

Certificate as issued by Fitzgerald Building Certifiers Pty Limited

DATE

AT: BALGOWLAH.

CRYSTAL POOLS PTY. LTD.

A VERTICAL FACE AND OF MINIMUM SAFE BEARING CAPACITY OF 50KPa.

UNDERLYING MATERIAL BY A LAYER OF APPROVED MEMBRANE.

1. ALL RODS TO BE GRADE 230 DEFORMED BARS IN ACCORDANCE

2. RODS TO BE LAPPED A MINIMUM OF 400mm AND TO BE WIRE

3. REINFORCEMENT SHALL HAVE THE FOLLOWING CLEAR COVER OF

WALLS AND STEPS 50mm INSIDE FACE.

4. WHERE COPING IS MORE THAN 150mm ABOVE NATURAL GROUND LEVEL THE HORIZONTAL REINFORCEMENT IS TO BE INCREASED TO S12 AT 200 FOR A DISTANCE OF 400mm BELOW NATURAL

1. MATERIALS AND WORKMANSHIP GENERALLY TO CONFORM TO THE

ONLY OPEN TYPE OR GLASS PANEL FENCING TO 1.2m HIGH MAY BE SUPPORTED OFF CONCOURSE AS DESIGNED. ALL FENCING TO BE IN

ALTERATION TO BE THE RESPONSIBILITY OF THE APPLICANT. THE

POOL TO BE EQUIPPED WITH HYDROSTATIC PRESSURE RELIEF VALVE TO SAFEGUARD AGAINST EXTERNAL WATER PRESSURE WHEN POOL IS EMPTY. DESPITE THIS PROVISION THE APPROVAL OF CRYSTAL POOLS PTY LTD

ACCORDANCE WITH A.S. 1926.1-1993, AS 1926.2-1995 AND THE ERECTION OR

REQUIREMENTS OF A.S. 3600-2001 & A.S. 2783-1992. 2. CONCRETE DESIGN STRENGTH (f'c) TO BE 25 MPa AT 28 DAYS. 3. CONCRETE TO BE PNUEMATICALLY PLACED PREFERABLY IN A SINGLE UNINTERRUPTED OPERATION. SHOULD A BREAKDOWN OF PLANT OCCUR THE CONSULTING ENGINEERS MUST BE

FLOOR AND COPING 50mm TO TOP OF CONCRETE. WIDTH OF COPING FINISH IS APPROXIMATE.

WITH A.S.1302 UNLESS NOTED OTHERWISE.

TIED AT EACH 2ND INTERSECTION.

EARTH FACES 65mm. FORMWORK FACES 40mm.

CONCRETE:

GROUND LEVEL.

NOTIFIED IMMEDIATELY.

CONCOURSE

EMPTYING POOL

1 Central Ave, Thornleigh 2120 Ph: 9875 4555 Fax: 9484 1019 Builder Licence No: 34505

12132/2 REV.

17.11.09

APPROVED

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SEPTEMBER 2007

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D

DRAWN

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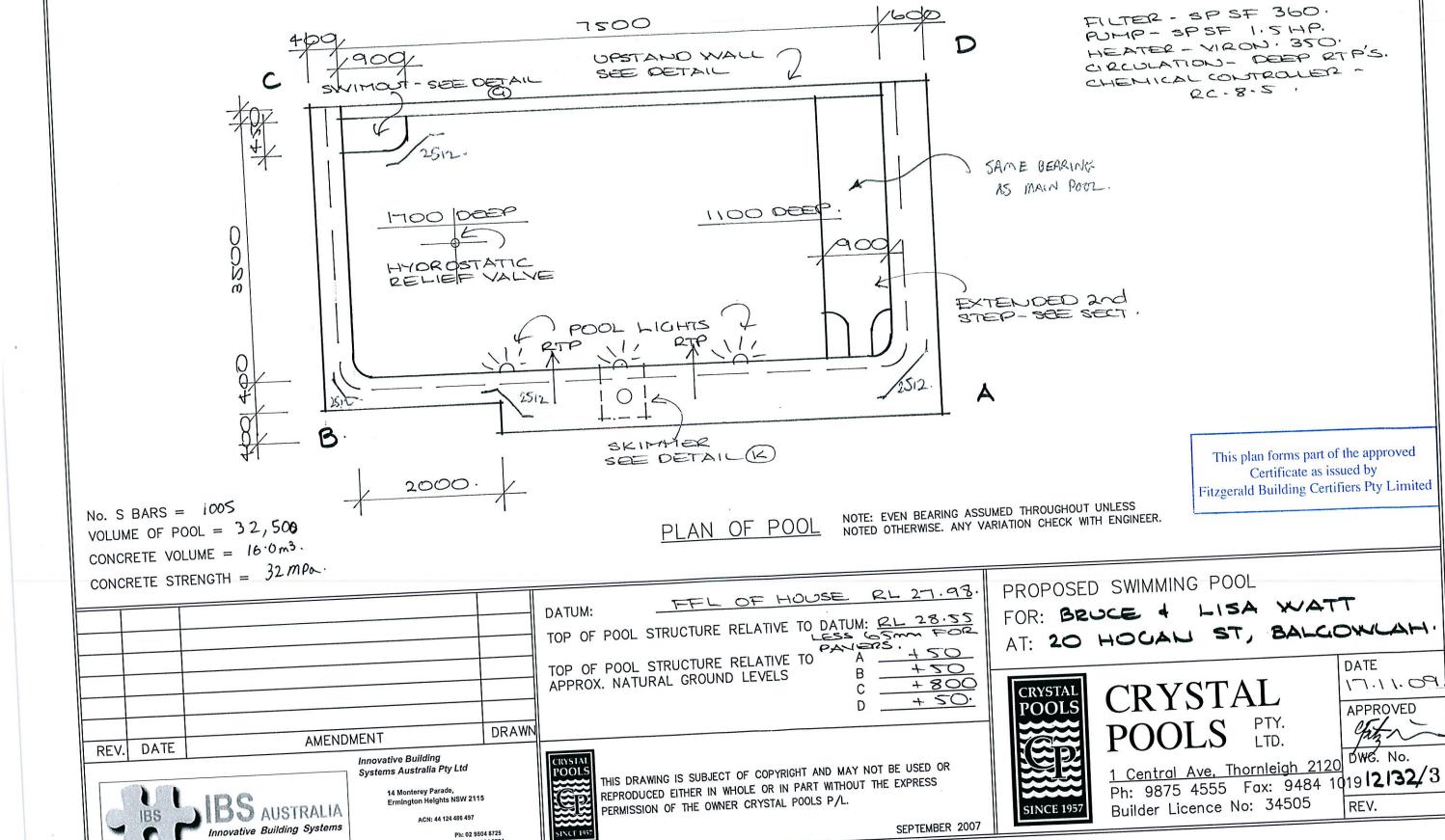
REV. DATE

AMENDMENT

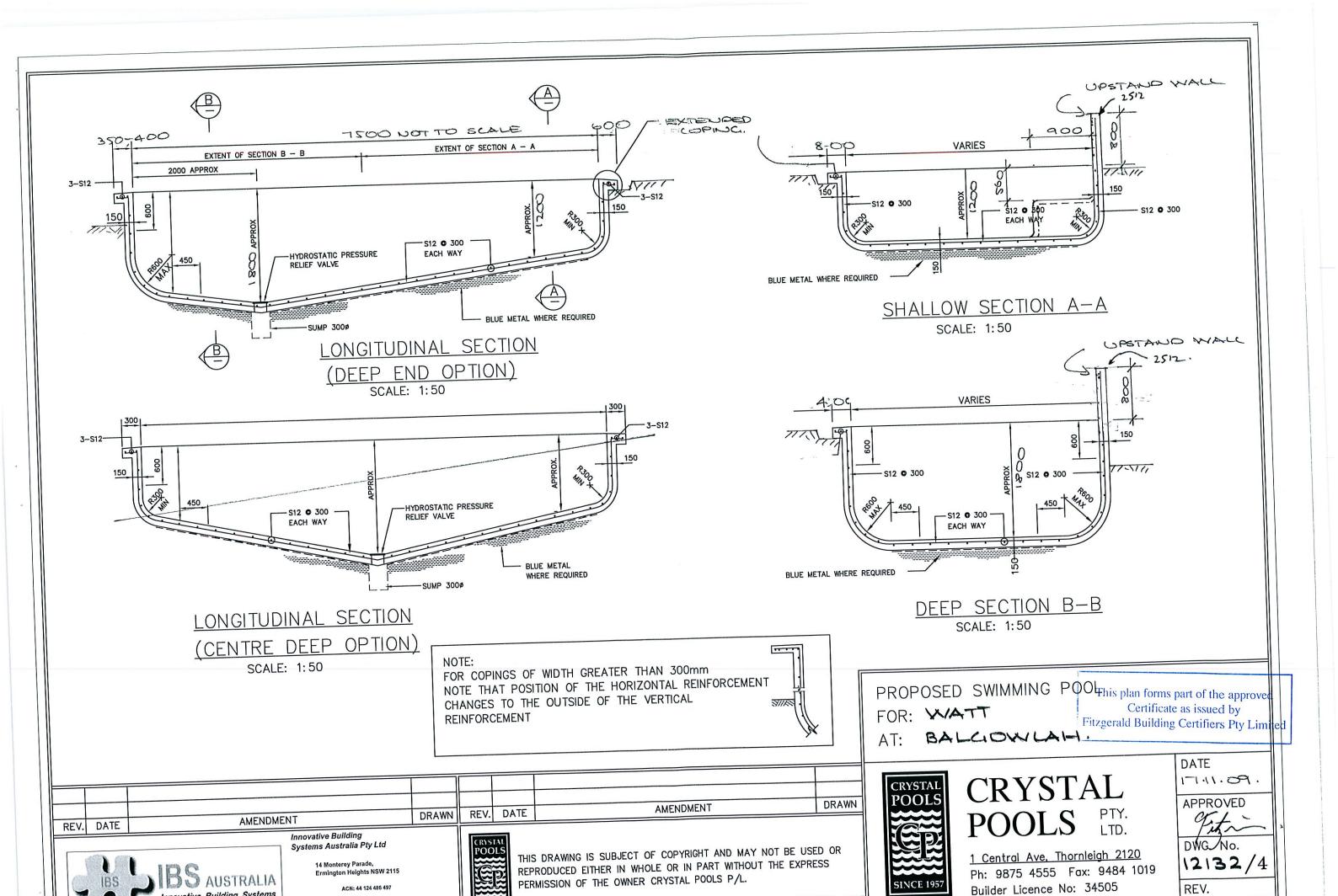
Innovative Building Systems Australia Pty Ltd

14 Monterey Parade, Ermington Heights NSW 2115

CRYSTAL POOLS

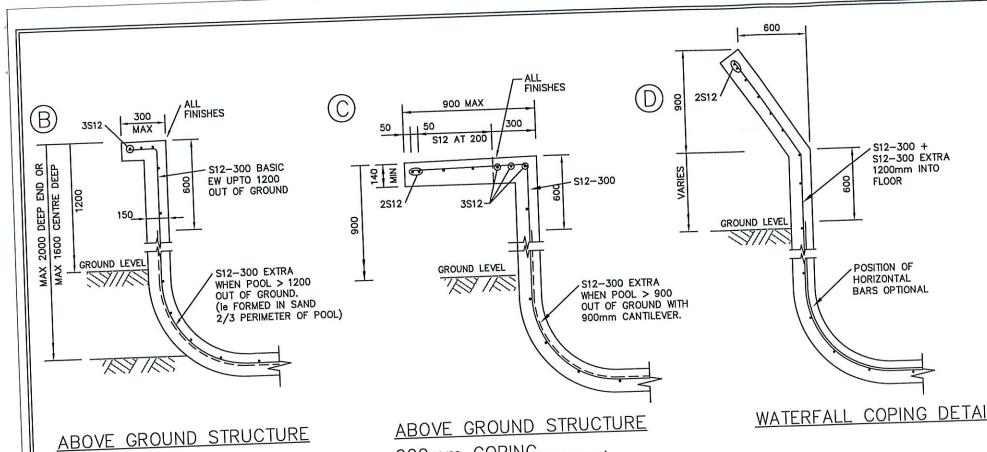


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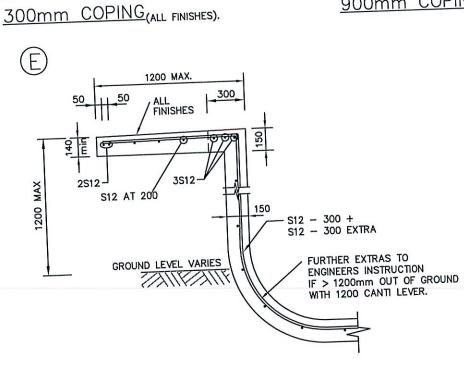
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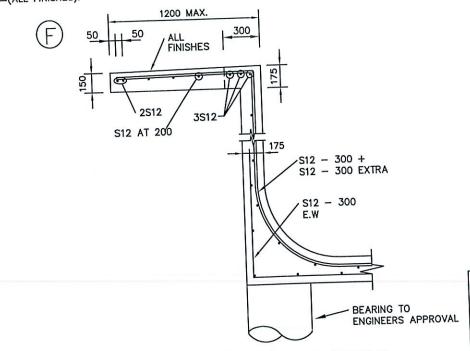


ABOVE GROUND STRUCTURE 900mm COPING (ALL FINISHES).

WATERFALL COPING DETAIL



ABOVE GROUND STRUCTURE 1200mm COPING



OUT OF GROUND RECTANGULAR POOLS

THIS DETAIL APPLIES TO POOLS WITH STRAIGHT WALLS WITH RECTANGULAR CORNERS OVER 9.0m LONG.



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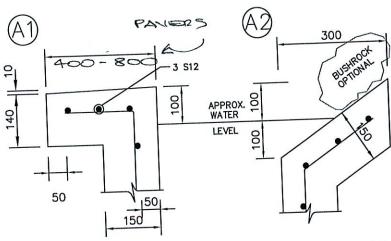


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SEPTEMBER 2007

NOTES:

- HORIZONTALS ABOVE GROUND LEVEL: S12-200 25 MPa CONCRETE S12-150 32 MPa & ABOVE
- 2. ALL 300mm COPING POOLS HORIZONTALS INSIDE ALL OTHER POOLS - HORIZONTALS OUTSIDE.
- 3. RADIUS OF BEND FOR COPING BARS 50mm.
- 4. INGROUND POOL PLANT ACCESS NO EXTRAS REQUIRED IF WALL HEIGHT IS LESS THAN 1.2m.
- ANY PAVING LAID ADJACENT TO POOL COPING MUST HAVE 15mm WIDE CONSTRUCTION OR EXPANSION JOINTS. IF PAVING LAID IN MORTAR, EXPANSION JOINT MUST BE INSERTED BETWEEN PAVING & POOL COPING. LEAVE 3mm GAPS BETWEEN PAVERS LAID ON SAND.



STANDARD COPING

SLOPING COPING

This plan forms part of the approved Certificate as issued by Fitzgerald Building Certifiers Pty Limited

PROPOSED SWIMMING POOL

WATT FOR:

BALCIOWLAH.



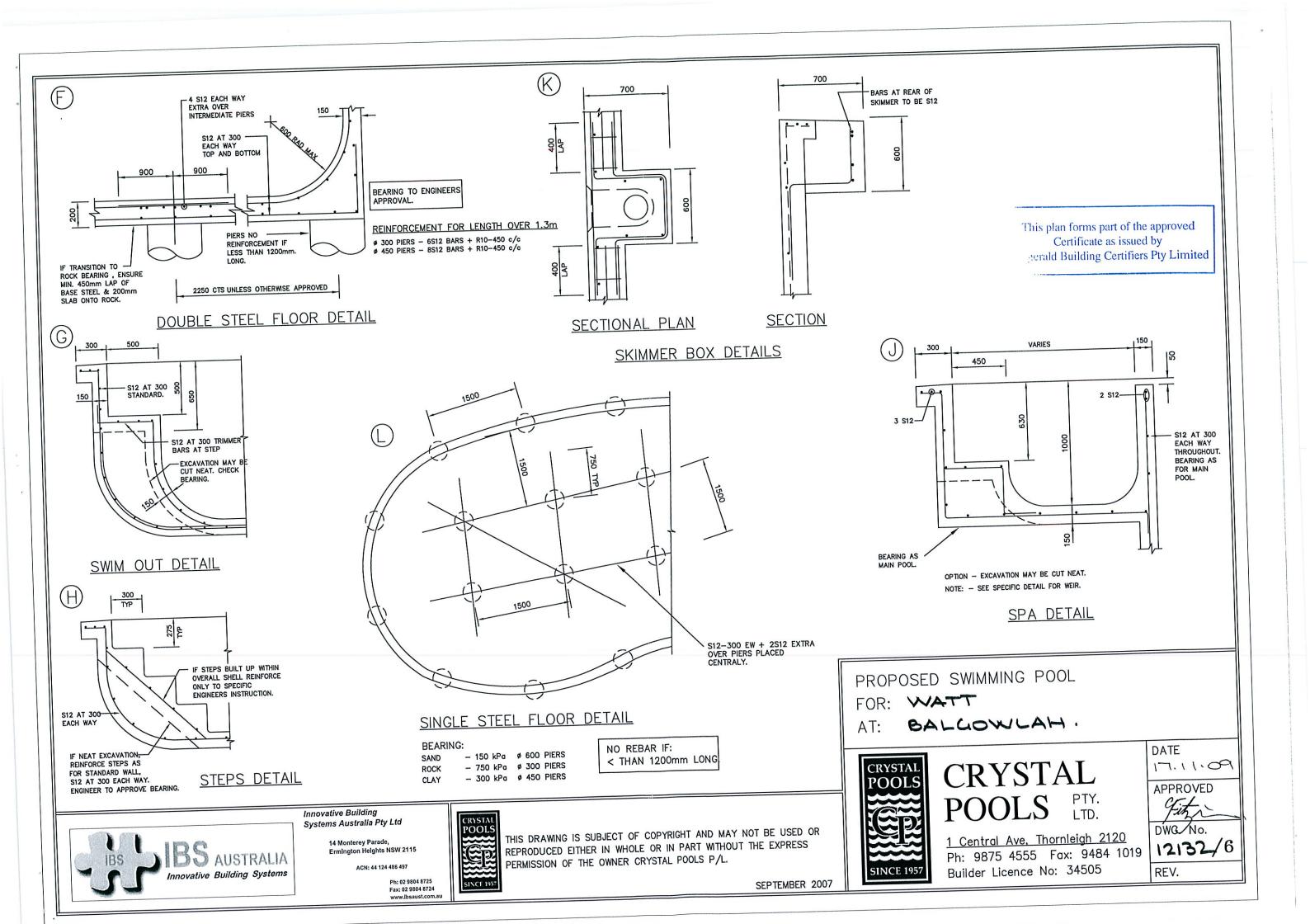
CRYSTAL

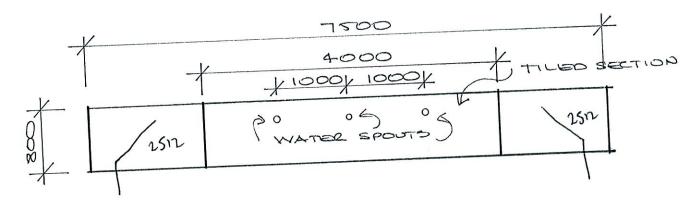
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Builder Licence No: 34505

DATE 17.11.09 APPROVED DWG/No. 12132/5

REV.



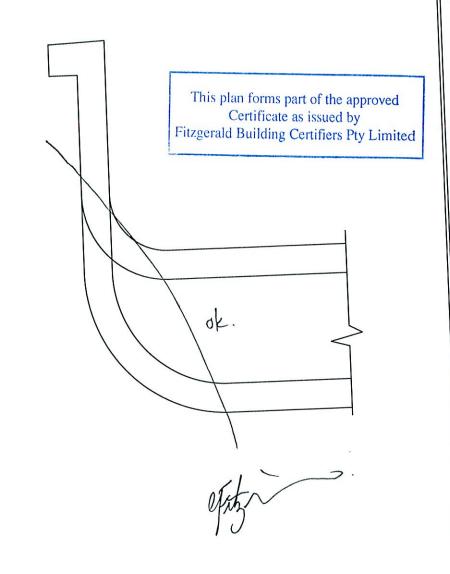


UPSTAND WALL DETAIL 1:50.

SIZ - 200 HORIZONTAZ

512 - 150 VERTICAL CARRIED 800 INTO FLOOR.

2512 @ TOP OF WALL.



SEWER ZONE OF INFLUENCE <u>DIAGRAM</u>

PROPOSED SWIMMING POOL

FOR: WATT

BALGOWLAH.



CRYSTAL POOLS PTY. LTD.

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DATE 17.11.09 APPROVED DWG. No. 12132/7

REV.

DRAWN **AMENDMENT** REV. DATE DRAWN **AMENDMENT** REV. DATE



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