



# CRYSTAL POOLS PTY. LTD.

Unit 8, 1 Central Ave, Thornleigh 2120

PO Box 271, Pennant Hills, 1715

Ph: 9875 4555 Fax: 9484 1019

Builder Licence No: 34505

**Melissa & Sam Michael**  
**9-13 Garswood Rd, Glenmore Park, NSW 2745**

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A	19.08	ISSUED FOR CONSTRUCTION	CMF
REV.	DATE	AMENDMENT	DRAWN

**JOB #: 13319**

POOL VOLUME = 73,788 L  
SPA VOLUME = 4,410 L

Lot No.: 4210

D.P. No.: 793120

AREA: 8685.4m<sup>2</sup>

**FILTER EQUIPMENT**

- TO BE ENCLOSED IN SOUND PROOF ENCLOSURE
- SOUND PROOF ENCLOSURE TO BE CLEAR OF 900mm NON-CLIMB ZONE.

F

DATUM FFL ALRESCO

9-13 GARSWOOD RD,  
GLENMORE PARK, NSW 2745

SPA TO BE COVERED  
BY LOCKABLE LID

POOLSAFE FENCE WITH SC & SL  
LATCH - BY OTHERS

3200 to WATER

15947 to WATER

18604 to WATER

9800 to WATER

LOT No.: 4210  
DP No.: 793120  
AREA: 8685.4m<sup>2</sup>

GARSWOOD ROAD

**PLAN** SCALE 1:800

**SITE PLAN** SCALE 1:200

PROPOSED SWIMMING POOL  
FOR: **Melissa & Sam Michael**  
AT: 9-13 Garswood Rd, Glenmore Park, NSW 2745

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**Innovative Building Systems Australia Pty Ltd**

14 Monterey Parade, Ermington Heights NSW 2115 ACN: 44 124 486 497  
www.ibsaust.com.au Ph: 0414 555 991 Fax: 02 9804 8724

APPROVED

DATE 19.08.2016

CHRISTIAAN FITZSIMON BSc BE MIEAust # 987546



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SEPTEMBER 2007



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DWG. No.  
**P01**

REV. **A**

**SWIMMING POOL NOTES:**

**POOL LOCATION:**

CUSTOMERS MUST SATISFY THEMSELVES TO THE CORRECT LOCATION OF THE POOL, SET OUT PEGS PRIOR TO THE COMMENCEMENT OF THE EXCAVATION,

**DIMENSIONS:**

FIGURED DIMENSIONS ARE TO BE TAKEN IN PREFERENCE TO SCALE.

**FOUNDATIONS:**

1. TO BE NATURALLY OCCURRING MATERIAL CAPABLE OF BEING EXCAVATED TO A VERTICAL FACE AND OF MINIMUM SAFE BEARING CAPACITY OF 50kPa.
2. UNDERSIDE OF THE CONCRETE FLOOR TO BE SEPARATED FROM THE UNDERLYING MATERIAL BY A LAYER OF APPROVED MEMBRANE – 250µm MIN OR SIMILAR,

**REINFORCEMENT:**

1. ALL RODS TO BE GRADE 250 DEFORMED BARS IN ACCORDANCE WITH AS4671 UNLESS NOTED OTHERWISE – GRADE S,
2. RADIUS OF BENDS FOR COPING BARS 50mm,
3. RODS TO BE LAPPED A MINIMUM OF 400mm AND TO BE WIRE TIED AT EACH 2ND INTERSECTION,
4. REINFORCEMENT SHALL HAVE THE FOLLOWING CLEAR COVER OF CONCRETE;
  - 4.1. WALLS AND STEPS 50mm INSIDE FACE,
  - 4.2. FLOORS AND COPING 50mm TO TOP OF CONC, WIDTH OF COPING FINISH IS APPROX,
  - 4.3. EARTH FACES 65mm,
  - 4.4. FORMWORK FACES 40mm,
  - 4.5. WHERE COPING IS MORE THAN 300mm ABOVE NATURAL GROUND LEVEL, THE HORIZONTAL REINFORCEMENT IS TO BE INCREASED TO S12-200 FOR A DISTANCE OF 400mm BELOW NATURAL GROUND LEVEL,
5. HORIZONTALS ABOVE GROUND LEVEL:
  - 5.1. 25MPa CONCRETE S12-200
  - 5.2. 32MPa & ABOVE S12-150,
6. RADIUS OF BEND FOR COPING BARS 50mm,
7. REINFORCEMENT IS BE CHAIRED TO PREVENT MOVEMENT DURING PLACEMENT OF CONCRETE, AND MAINTAIN CLEAR COVER AS SPECIFIED IN 4.
  - 7.1. CONE CHAIRS ARE NOT TO BE USED AGAINST FORM,
  - 7.2. FLOOR TO BE CHAIRED AT 600 INTERSECTIONS,

**CONCRETE**

1. MATERIALS AND WORKMANSHIP GENERALLY TO CONFIRM TO THE REQUIREMENTS OF AS3600 & AS2783,
2. CONCRETE DESIGN STRENGTH (f'c) TO BE 25MPa AT 28 DAYS, UNLESS OTHERWISE STATED,
3. CONCRETE TO BE PNEUMATICALLY PLACED PREFERABLY IN A SINGLE UNINTERRUPTED OPERATION. SHOULD A BREAKDOWN OF PLANT OCCUR THE CONSULTING ENGINEERS MUST BE NOTIFIED IMMEDIATELY.

**CONCOURSE**

1. ONLY OPEN TYPE OR GLASS PANEL FENCING TO 1.2m HIGH MAY BE SUPPORTED OFF CONCOURSE AS DESIGNED. ALL FENCING TO BE IN ACCORDANCE WITH AS1926.1 & AS1926.2 AND THE ERECTION OR ALTERATION TO BE THE RESPONSIBILITY OF THE APPLICANT. THE FENCING IS PART OF THE APPLICATION,
2. SPIGOTS ARE TO BE CORED NO CLOSER THAN 170mm FROM STRUCTURAL EDGE OF COPING,
3. THE POOL SHELL IS DESIGN IN ISOLATION, NO FITMENTS, OR LOADING TO BE PLACES ON CONCOURSE OR POOL SHELL WITHOUT THE EXPRESS PERMISSION OF CRYSTAL POOLS,
4. 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,
5. POOL HAS BE DESIGNED TO MAINTAIN A CONSTANT 100mm FREEBOARD, OVERFILLING OF THE POOL WILL RESULT IN SATURATION OF THE TILE BED AND RISK DELAMINATING COPING FINISHES.

**EMPTYING POOL**

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 MUST BE OBTAINED BEFORE EMPTYING THE POOL

**DIVING**

THIS POOL IS NOT DESIGN FOR DIVING.

LEVELS FOR COUNCIL APPROVAL

DATUM: FFL of Alfresco

TOP OF FINISHED POOL RELATIVE TO DATUM

LEVEL

HEIGHT ABOVE EXISTING GROUND LEVEL AT

A	-50	RL	-----
B	-50	RL	-----
C	-250	RL	-----
D	-250	RL	-----

-50

-50

-250

ELEVATION A-B

ELEVATION B-C

-50

-250

-250

ELEVATION A-D

ELEVATION D-C

PROPOSED SWIMMING POOL  
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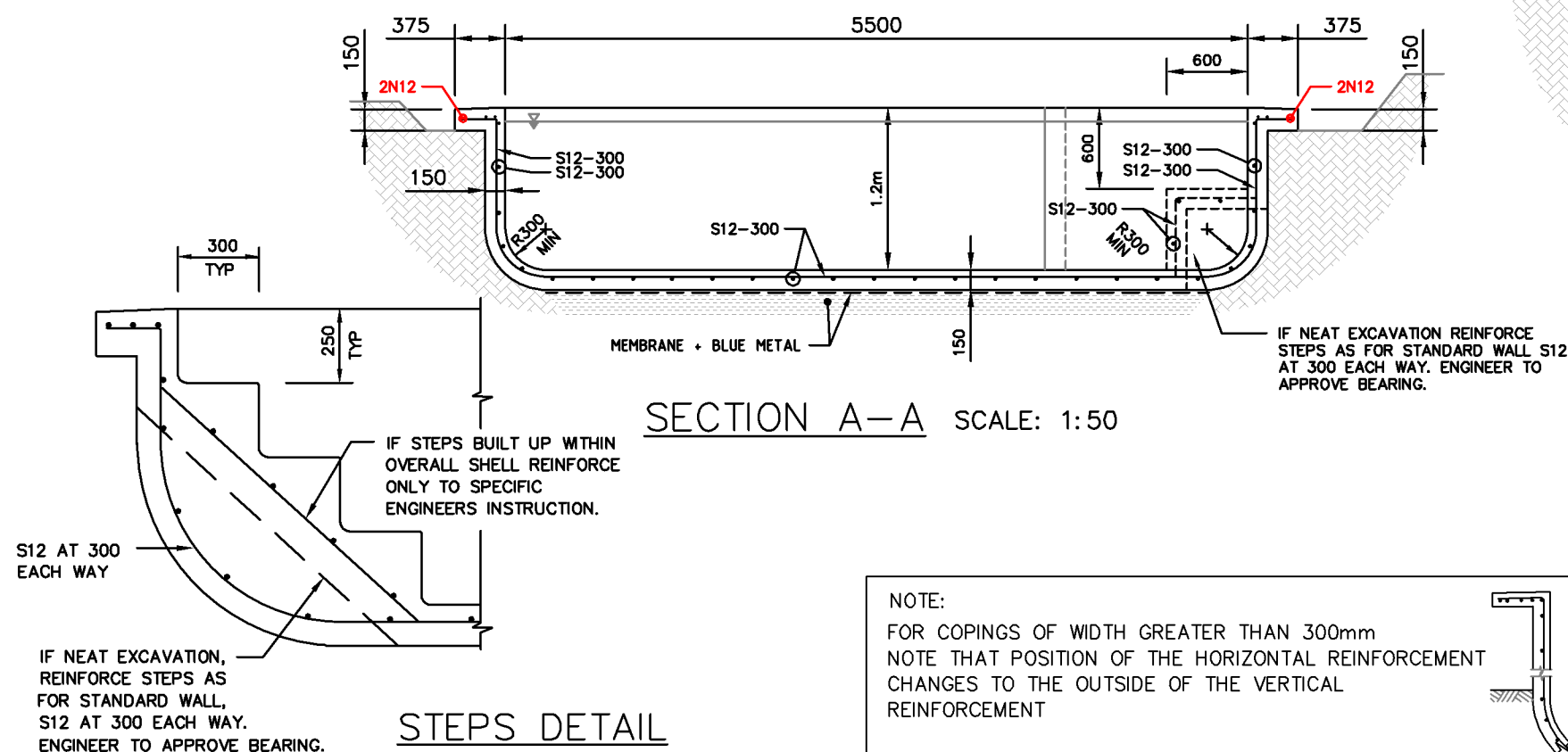
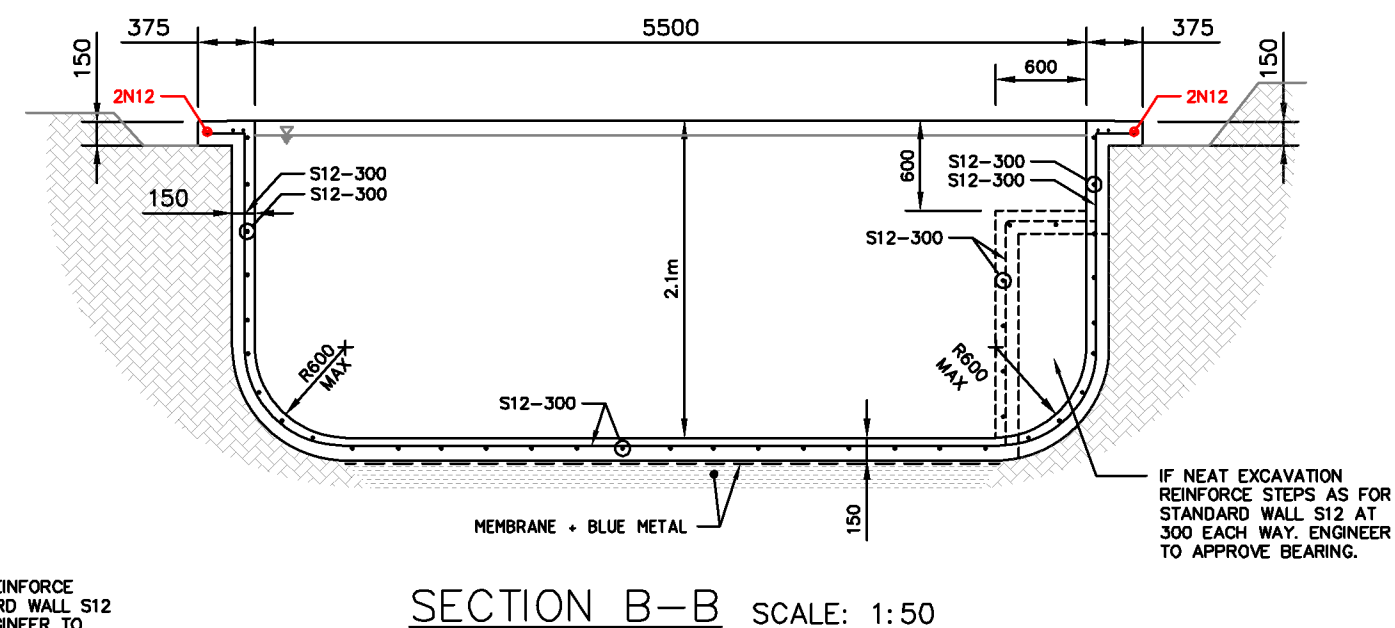
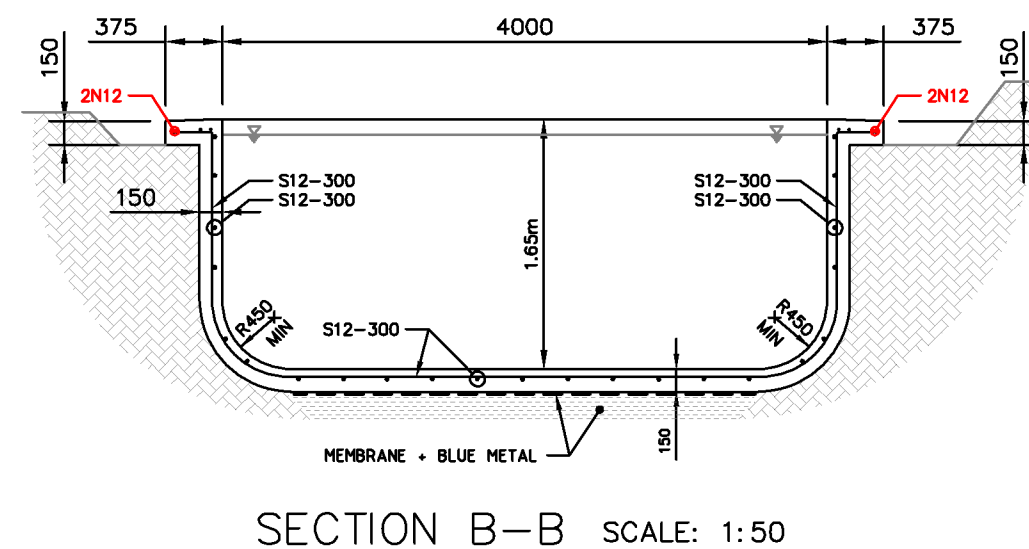
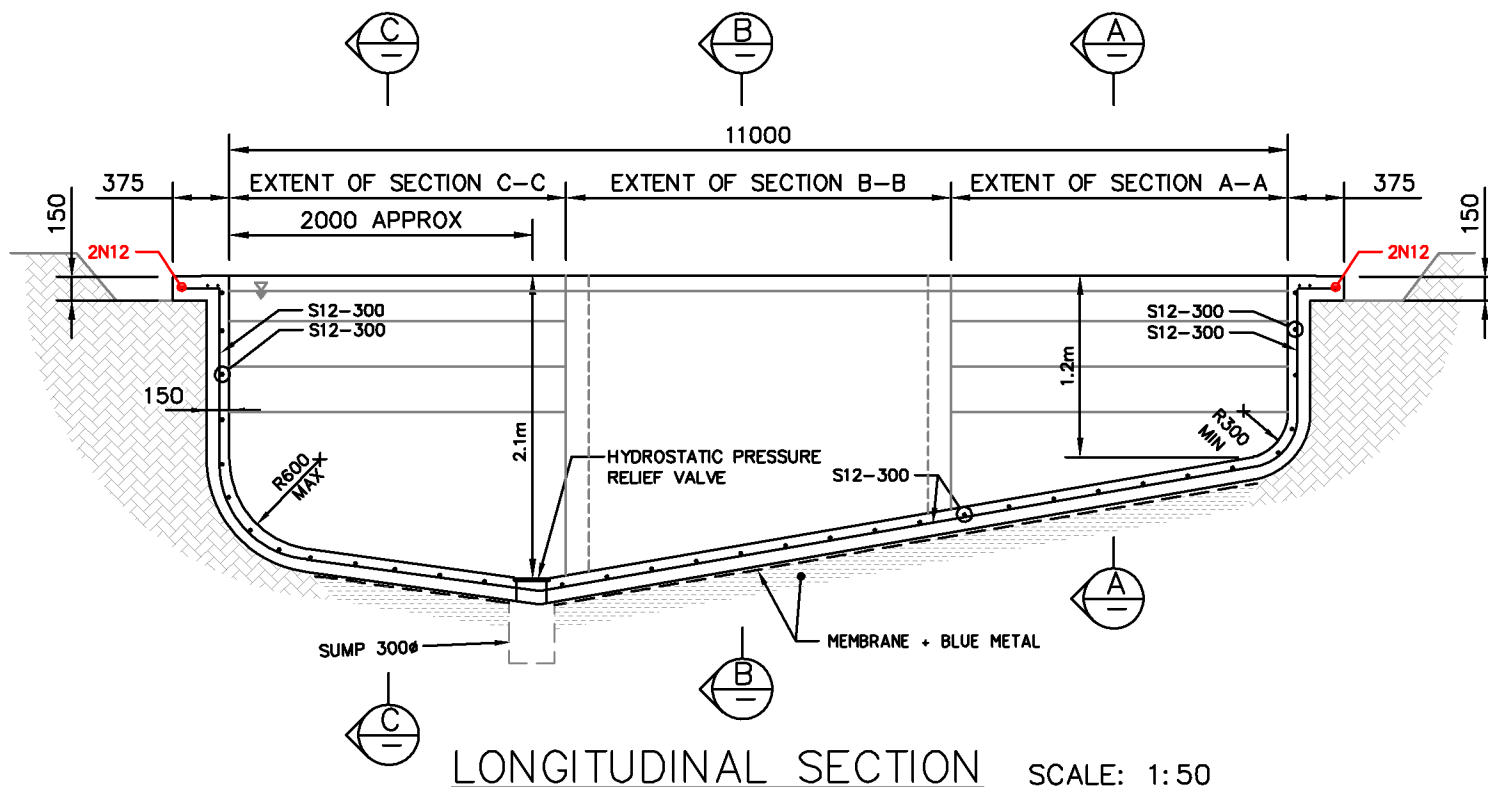
**CHRISTIAAN FITZSIMON** BSc BE MIEAust # 987546



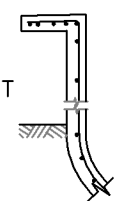
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NOTE:  
FOR COPINGS OF WIDTH GREATER THAN 300mm  
NOTE THAT POSITION OF THE HORIZONTAL REINFORCEMENT  
CHANGES TO THE OUTSIDE OF THE VERTICAL  
REINFORCEMENT



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**APPROVED** *Christiaan Fitzsimon* **DATE** 19.08.2016

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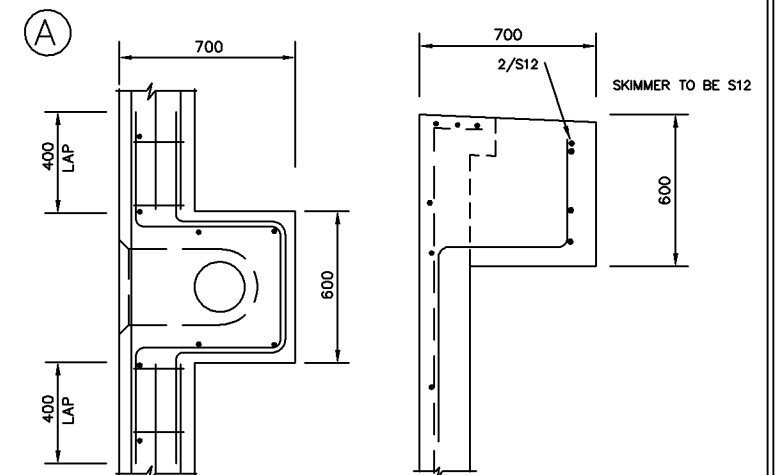
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# EQUIPMENT LIST

FILTER	- ZX 100
PUMP	- CTX 280
HEATER	- V450 GAS
CLEANING	-
CHEMICAL CONTROLLER	-
CIRCULATION	- 2 x RTP's
LIGHTS	- 1 x UNDERWATER LIGHTS
FILTER BOX	- NIL
POOL BLANKET	- NIL

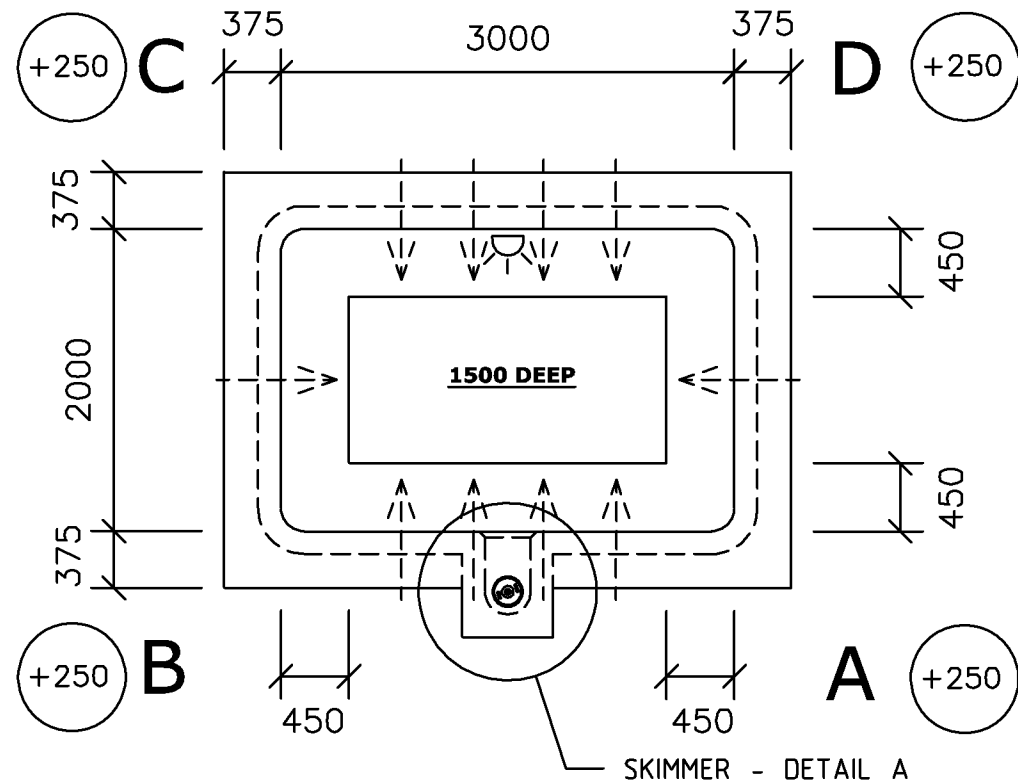


SECTIONAL PLAN SECTION  
DETAIL A - SKIMMER BOX  
NOTE: SKIMMER TO COMPLY WITH AS1926.3

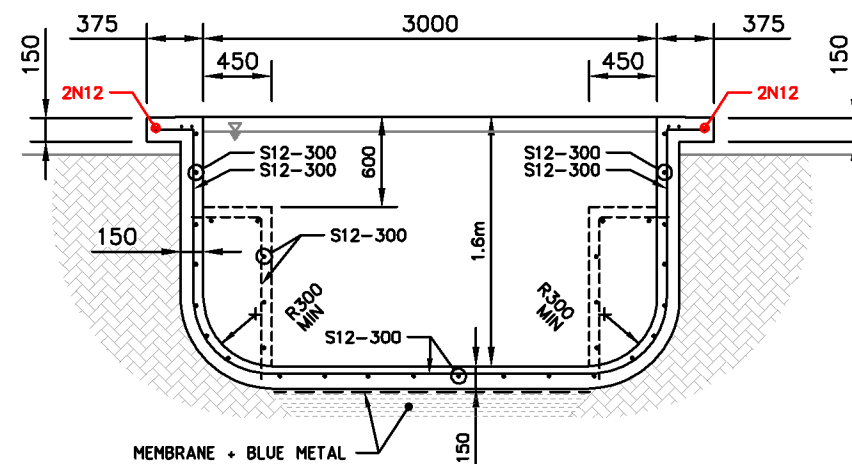
No. S Bar =	40 S
No. N Bar =	7 N
Volume of Pool =	4,410 L
Concrete Volume =	7.96 m3
Concrete Strength =	32 MPa

## NOTE:

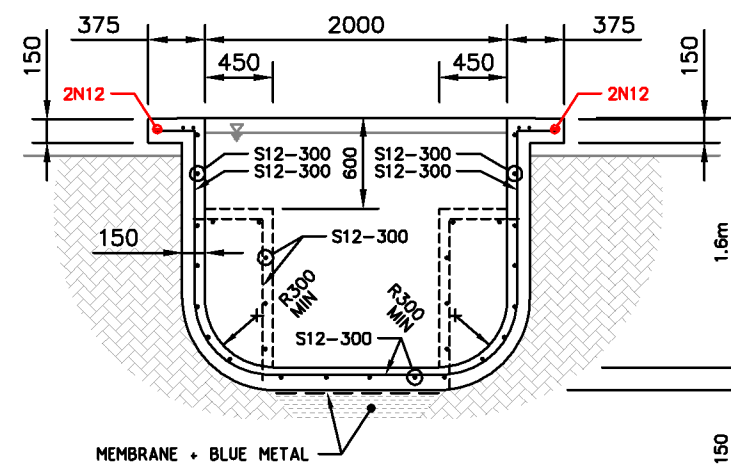
- EVEN BEARING ASSUMED THROUGHOUT UNLESS NOTED OTHERWISE. ANY VARIATION CHECK WITH ENGINEER.



PLAN OF SPA (Scale 1:50)



LONG SECTION SCALE: 1:50



CROSS SECTION SCALE: 1:50

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DATUM: FFL of Alfresco

TOP OF POOL STRUCTURAL RELATIVE TO DATUM, ALLOW 30mm FOR PAVER: 250 ABOVE

TOP OF POOL	A	+250	RL	----
STRUCTURE RELATIVE TO	B	+250	RL	----
APPROX. NATURAL	C	+250	RL	----
GROUND LEVELS	D	+250	RL	----



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