

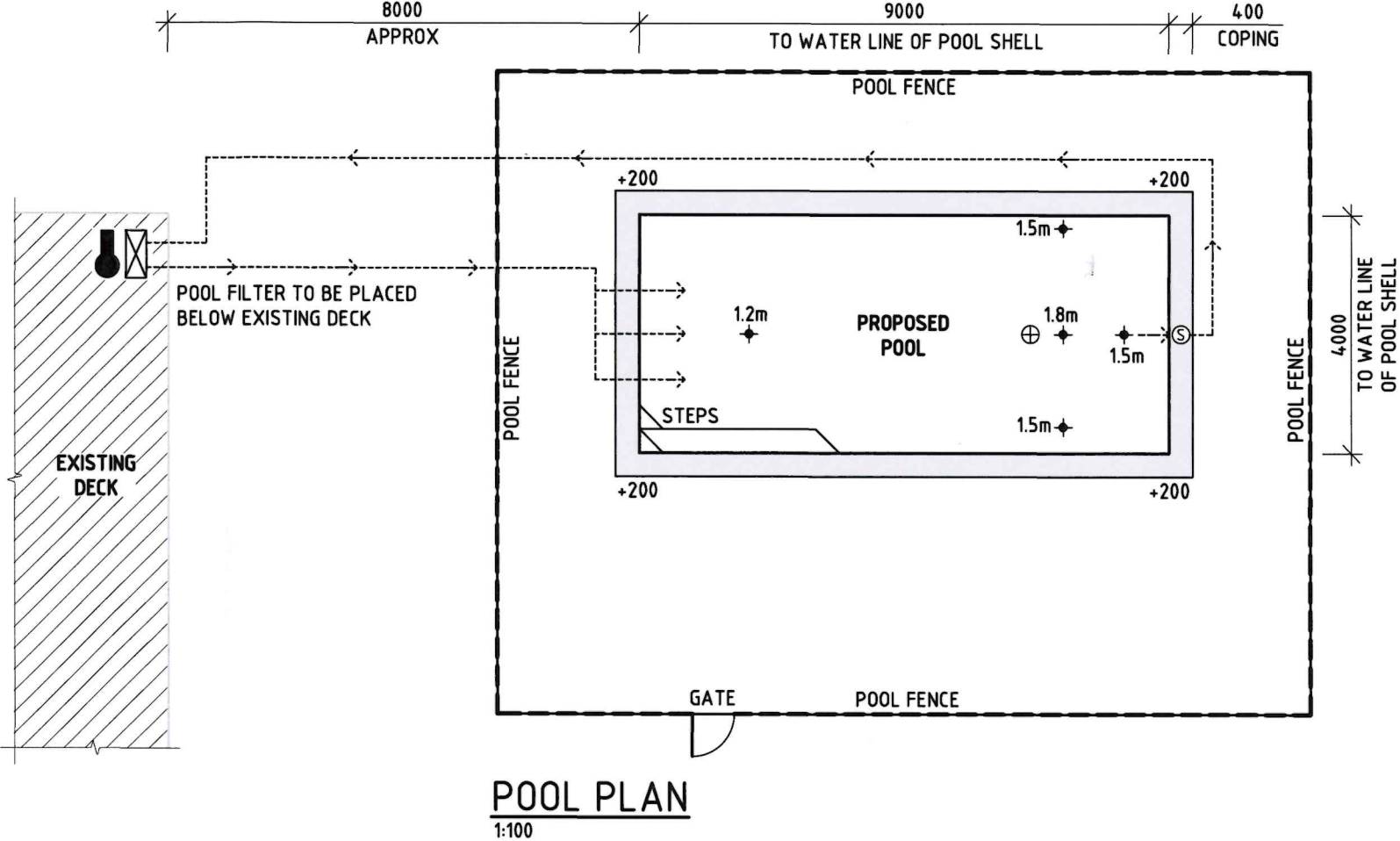
**NOTE:**  
POOL FENCING & SAFETY SHALL COMPLY WITH THE FOLLOWING STANDARDS: AUSTRALIAN CODES AS1926.1 SAFETY BARRIERS FOR SWIMMING POOLS & AS1926.2 AUSTRALIAN STANDARD FOR LOCATION OF SAFETY BARRIERS FOR SWIMMING POOLS.  
AS 2818 – AUSTRALIAN STANDARD GUIDE FOR SWIMMING POOL SAFETY. THE SAFETY FENCING DETAILS AND LOCATIONS SHALL BE APPROVED BY THE CLIENT / OWNER AND THE LOCAL AUTHORITY PRIOR TO CONSTRUCTION  
CONSTRUCTION SHALL COMPLY WITH AS 2783 USE OF REINFORCED CONCRETE FOR SMALL SWIMMING POOLS & AS 3600.  
ALL REINFORCEMENT & SITE CONDITIONS SHALL BE APPROVED BY ESEN ENGINEERING'S SITE INSPECTOR.  
TO COMPLY WITH AS1926.3 2010 POOL WATER RETICULATION SYSTEMS.

**NOTE:**  
BUILDER TO ENSURE THAT THE POOL EXCAVATION WILL NOT IMPEDE THE STRUCTURAL INTEGRITY OF NEIGHBOURING STRUCTURES, IF IN DOUBT ASK.  
ALL STEPS, SEATS & LEDGES TO BE FOUNDED 600 MIN. BELOW GND LEVEL AND INTO APPROVED STRATA SIMILAR TO THAT OF THE POOL. WHERE POOL IS MORE THAN 500mm OUT OF GROUND CANTILEVER WALL TYPE B SHALL BE USED AS SHOWN ON DRAWING 2  
NO FLOOD STORAGE CALCULATIONS ALLOWED FOR IN THIS DESIGN.  
THE POOL BUILDER & SITE OWNER SHALL MAKE THEMSELVES AWARE OF ANY REQUIREMENTS FOR FLOOD STORAGE AT THIS SITE & COMPLIANCE WITH COUNCIL & THE BUILDING CERTIFIERS DIRECTIONS FOR THIS REQUIREMENT.

**NOTE:**  
ANY REVISIONS OR EXTRA DRAWINGS REQUESTED FOLLOWING THE ORIGINAL ISSUE OF DRAWINGS WILL INCUR ADDITIONAL FEES.  
ALL FOOTINGS AND SITE WORK SHOWN ON THESE DRAWINGS SHALL BE CERTIFIED FOLLOWING INSPECTIONS BY ESEN ENGINEERING P/L. WORK CARRIED OUT BY OTHERS AND NOT CERTIFIED BY THIS FIRM SHALL NOT BE THE RESPONSIBILITY OF THIS FIRM FOR COMPLIANCE, APPROVALS OR INDEMNITY.  
THE DESIGN & DRAWINGS REFERRED TO HERE HAVE BEEN PREPARED WITHOUT CONSIDERATION OF THE WHS QLD CODE OF PRACTICE 2013.

**CIVIL AND STRUCTURAL ENGINEERS**

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**NOTE**  
SET OUT OF POOL RELATIVE TO EXISTING RESIDENCE AND BOUNDARY ALL AS SUPPLIED BY OTHERS.  
ALL DIMENSIONS AND SET OUT TO BE CONFIRMED PRIOR TO CONSTRUCTION.  
POOL GATE, FENCE AND FILTRATION LOCATIONS INDICATIVE ONLY.

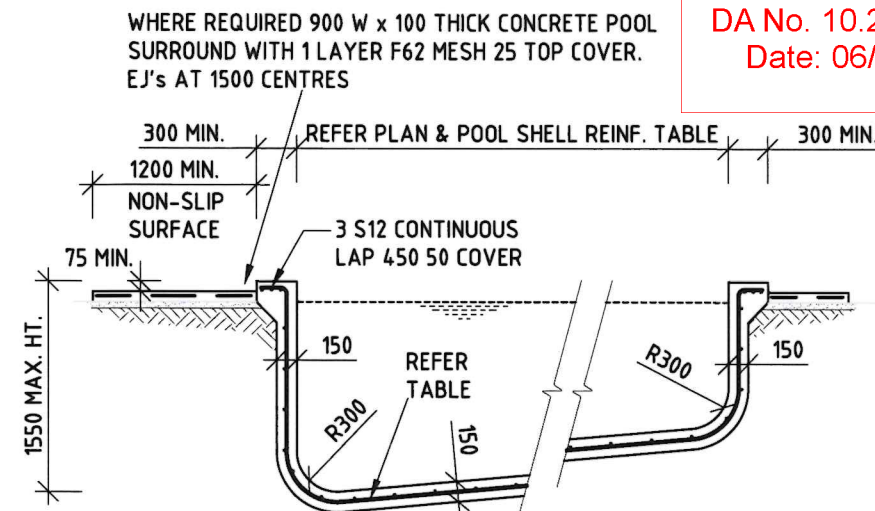
**POOL CONCRETE:**  
CONCRETE STRENGTH  $f'c = 32 \text{ MPa}$  AT 28 DAYS  
PLACEMENT OF CONCRETE TO BE IN ONE CONTINUOUS OPERATION, THEN PROTECTED TO PREVENT PREMATURE DEHYDRATION AND CURED BY AN APPROVED METHOD FOR A MINIMUM OF 14 DAYS.

+150 DENOTES FINISHED POOL COPING DISTANCE ABOVE NATURAL OR FINISHED GROUND LEVEL VARIES AS INDICATED ON PLAN AT CORNER POOL LOCATIONS

- LEGEND:**
- - - - - SUCTION PIPES 50 $\phi$  PVC
  - - - - - RETURN PIPES 40 $\phi$  PVC
  - FILTRATION UNIT
  - PUMP OUT LINE TO SEWER OR STORMWATER
  - SKIMMER BOX
  - HYDROSTATIC VALVE
  - POOL LIGHT

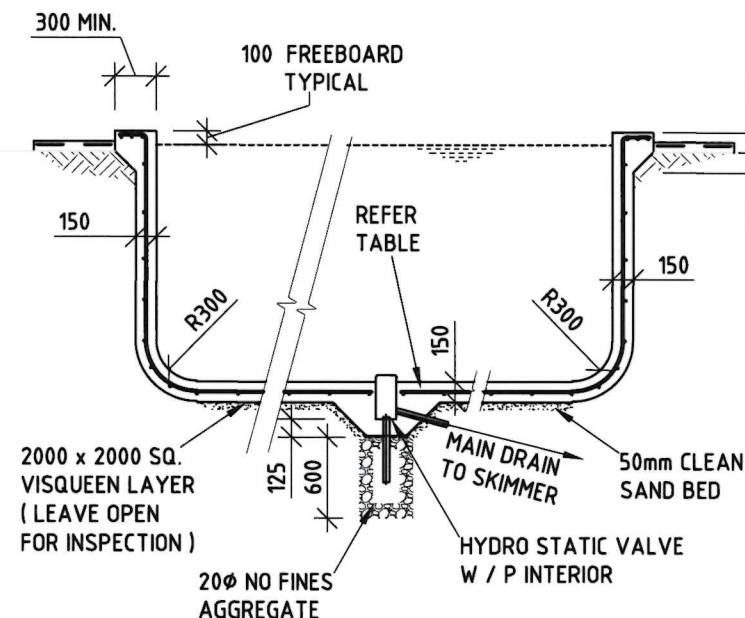
Project				CONCRETE POOL SHELL 13/213 COORABELL RD, COORABELL NSW 2479			
Client				U-BEAUT POOLS PTY LTD ubeautpools@hotmail.com 0412 146 485			
Drawing No.				24104.02		Revision	
1 OF 2				0			



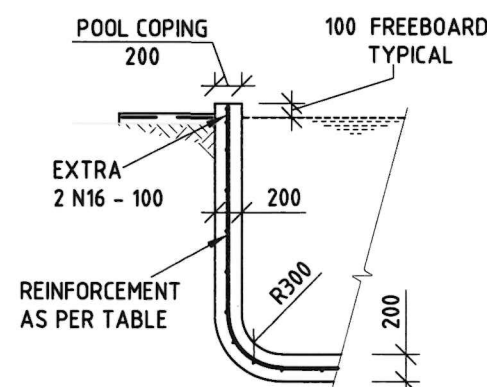


BASE OF SHELL TO BE COMPACTED TO 60% DENSITY INDEX & APPROVED BY INSPECTING ENGINEER

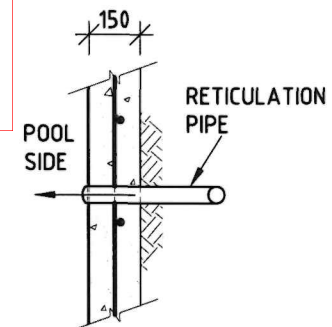
**LONGITUDINAL SECTION**  
1:50



**MAIN DRAIN SECTION**  
1:50

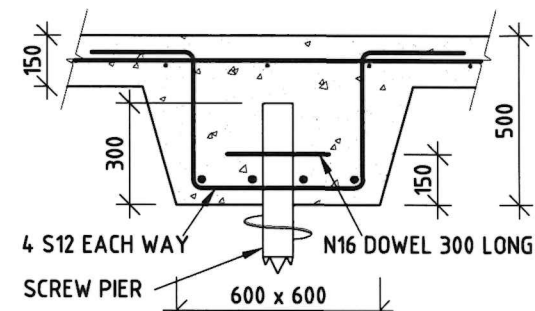


**200 POOL COPING DETAIL**  
1:50

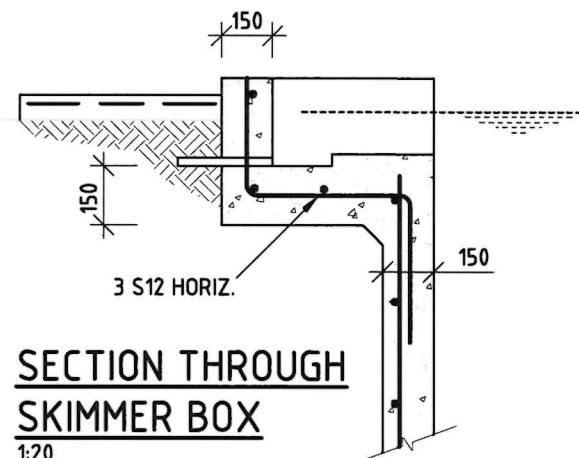


**POOL SHELL PIPING**  
1:20

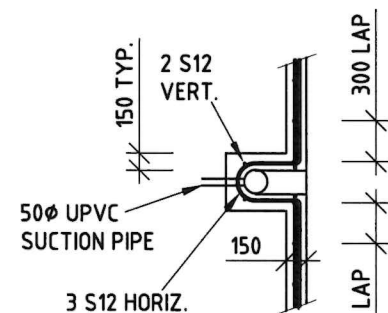
PVC PIPES FOR WATER RETICULATION SHALL PASS THROUGH POOL SHELL WALL. PIPES SHALL NOT BE TIED TO REINFORCEMENT ALONG POOL SHELL WALL.



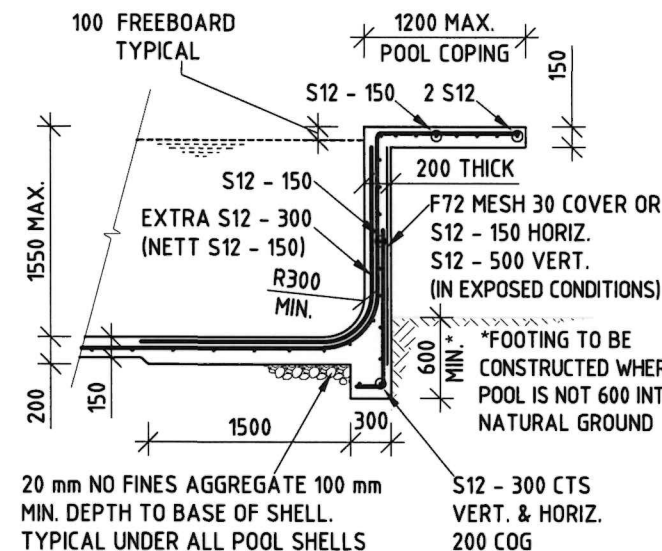
**SHELL THICKENING FOR SCREW PIERS**  
1:20



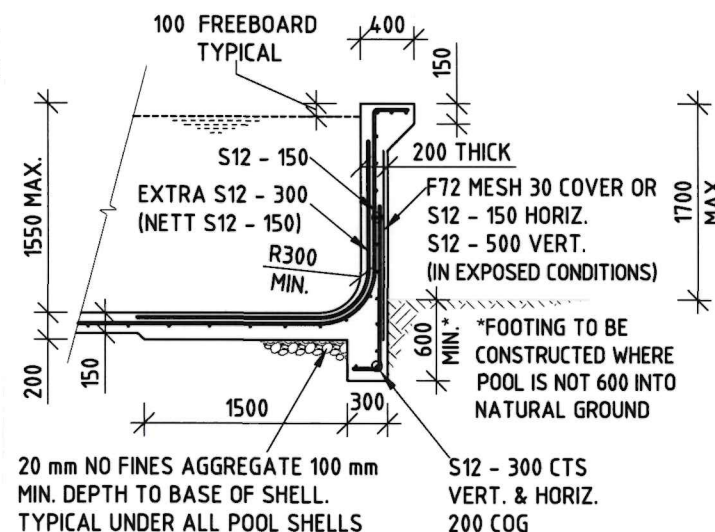
**SECTION THROUGH SKIMMER BOX**  
1:20



**SKIMMER BOX DETAIL**  
1:50 PLAN



**CANTILEVER COPING TYPE A**  
1:50



**CANTILEVER WALL TYPE B**  
1:50


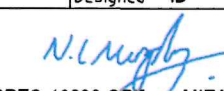
POOL SHELL REINFORCEMENT			
POOL LENGTH (MAX.)	POOL WIDTH (MAX.)	REINFORCEMENT LONGITUDINAL	CROSS REINFORCEMENT SHORT DISTANCE
9 m	5 m	S12 - 300	S12 - 300
9 - 12 m	6 m	S12 - 200	S12 - 300
12 - 15m	8 m	S12 - 150	S12 - 200
GREATER THAN 15 m	BY SPECIFIC DESIGN BY ENGINEER		

**POOL DESIGN NOTES:**

1. THE STRUCTURE HAS BEEN DESIGNED IN COMPLIANCE WITH THE STANDARD BUILDING CODES, BASED ON THE PERFORMANCE OF SIMILAR, PREVIOUSLY DESIGNED AND CONSTRUCTED POOLS AND IF BUILT IN ACCORDANCE WITH THE DETAILS AND SPECIFICATIONS SHOWN, WILL BE STRUCTURALLY SOUND.
2. THE POOL IS DESIGNED TO BE CONSTRUCTED IN FIRM STABLE NATURAL GROUND OR CERTIFIED COMPACTED FILL (UP TO CLASS "M"). THE POOL HAS NOT BEEN DESIGNED FOR EXPANSIVE CLAY CONDITIONS OR WHEN SUITABLE LOOSE OR NON UNIFORM MATERIALS ARE ENCOUNTERED UNDER THE POOL. IT IS THE POOL BUILDER'S RESPONSIBILITY TO ENSURE THAT THE ABOVE CONDITIONS ARE ADHERED TO - IF IN DOUBT, THIS OFFICE OR GEOTECHNICAL CONSULTANT SHALL BE CONSULTED.

**POOL CONSTRUCTION NOTES:**

1. DIMENSIONS SHALL NOT BE SCALED AND SET OUT DIMENSIONS SHALL BE VERIFIED PRIOR TO CONSTRUCTION.
2. ALL CONCRETE, REINFORCING AND FORMWORK TO BE IN ACCORDANCE WITH CURRENT S.A.A. CODES.
3. BACKFILL OR WATERFILLING SHALL NOT BE CARRIED OUT FOR 14 DAYS AFTER POOL HAS BEEN SPRAYED.
4. WATER PROOFING OF THE POOL SHALL BE AN APPROVED METHOD TO POOL BUILDER'S SPECIFICATION.
5. POOL FENCING AND SECURITY TO BE COMPLIANT WITH AS1926-2012.
6. THE POOL SHALL NOT BE EMPTIED WITHOUT THE WRITTEN APPROVAL OF THE POOL BUILDER.
7. ALL CLASS 9 PVC PIPES SHALL NOT BE LOCATED WITHIN THE POOL SHELL - AND SHALL BE SEPARATED FROM THE SHELL BY 10mm ABLEFLEX.
8. IT IS STRONGLY RECOMMENDED THAT TREES ARE NO CLOSER THAN 100% OF THEIR HEIGHT FROM THE SWIMMING POOL.
9. AT NO TIME SHALL THE POOL EXCAVATION BE BELOW A CRITICAL LINE 1 VERTICAL TO 1 HORIZONTAL FROM THE UNDERSIDE OF THE FOUNDATION TO ANY NEIGHBOURING STRUCTURE. IN THE CASE OF SAND OR LOOSE MATERIAL 1 VERTICAL TO 1.5 HORIZONTALLY.
10. NO RESPONSIBILITY CAN BE ACCEPTED BY THIS OFFICE FOR MOVEMENTS TO THE SWIMMING POOL AS A RESULT OF SETTLEMENTS IN ADJACENT STRUCTURES.

 <b>CIVIL AND STRUCTURAL ENGINEERS</b> P 07 5578 8088   info@esenengineering.com Suite 12, Building 3 - Level 2 Lakehouse Offices 34-36 Glenferrie Dr, Robina QLD 4226	Rev. Description		By	Date	Project <b>CONCRETE POOL SHELL</b> 13/213 COORABELL RD, COORABELL NSW 2479  Client <b>U-BEAUT POOLS PTY LTD</b> ubeautpools@hotmail.com 0412 146 485  Drawing No. 24104.02 Revision 0
	0 FIRST ISSUE - CONSTRUCTION		RC	07.03.24	
	Approved NM	Designed IB	Drawn RC		
	Signed				
N MURPHY RPEQ 10892 CPeng MIEAust MLEI QUEENSLAND PTY LTD T/A ESEN ENGINEERING ACN 665 498 359					