

## An aerial view of a modern rooftop swimming pool. The pool is rectangular with a white border and is surrounded by a wooden deck. A glass railing with metal posts is installed along the edge of the deck. Outdoor seating, including a long wooden bench and several lounge chairs, is positioned around the pool. The surrounding area includes a concrete wall and some greenery.



## A modern house at dusk, featuring a large swimming pool with blue lighting, a covered outdoor lounge area with a fireplace, and large glass windows showing the interior.



- |   |        |
|---|--------|
| A | +330mm |
| B | +330mm |
| C | +400mm |
| D | +400mm |

scale 1:100

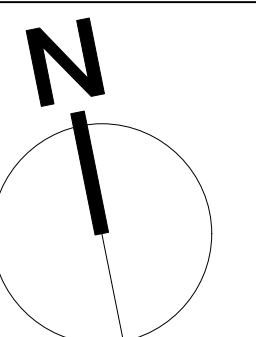
PO Box 698 MONA VALE NSW 1660  
Tel: 0434 500 705 - AIDLM

106 Shearwater Drive,  
Warriewood, NSW 2102

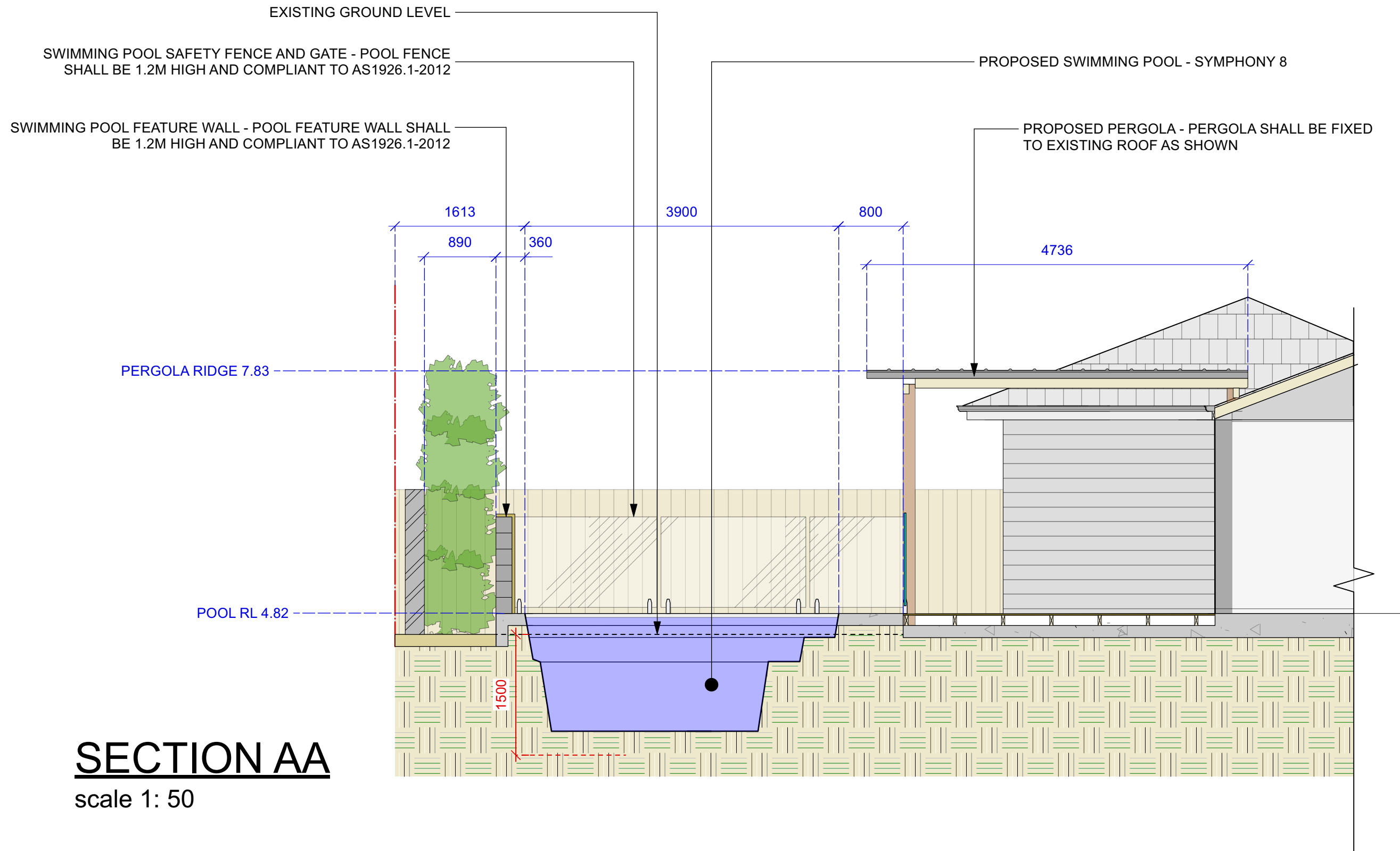
comply with building code of australia and all relevant australian standards  
all works shall be in accordance with development application and construction certificate conditions of consent  
all levels to ahd  
refer to survey information relating to existing site data  
verify all dimensions prior to works  
do not scale from drawings  
use figured dimensions in preference to scaling  
refer all discrepancies to landscape architect for determination  
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DATE	REV.	ISSUE
21/05/21	A	DRAFT
25/05/21	B	
28/05/21	C	
18/06/21	D	

DRAWN: CC

REV: **D**





**SECTION AA**  
scale 1: 50

NOTE: POOL EXCAVATION SHALL BE LESS THAN 1500mm IN DEPTH

CONTOUR  
LANDSCAPE ARCHITECTURE

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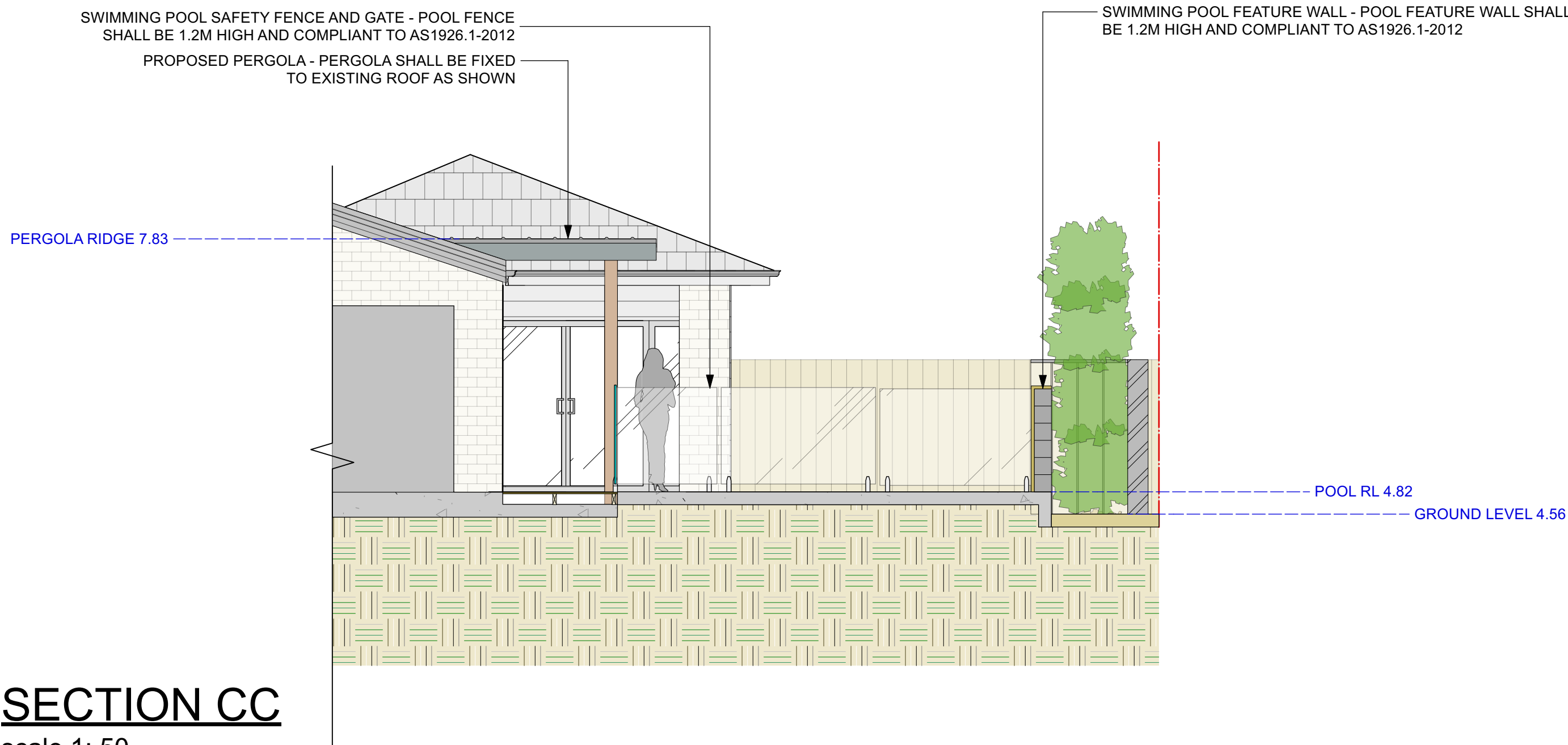
PROJECT:  
**Chris & Penny Naylor**  
106 Shearwater Drive,  
Warriewood, NSW 2102

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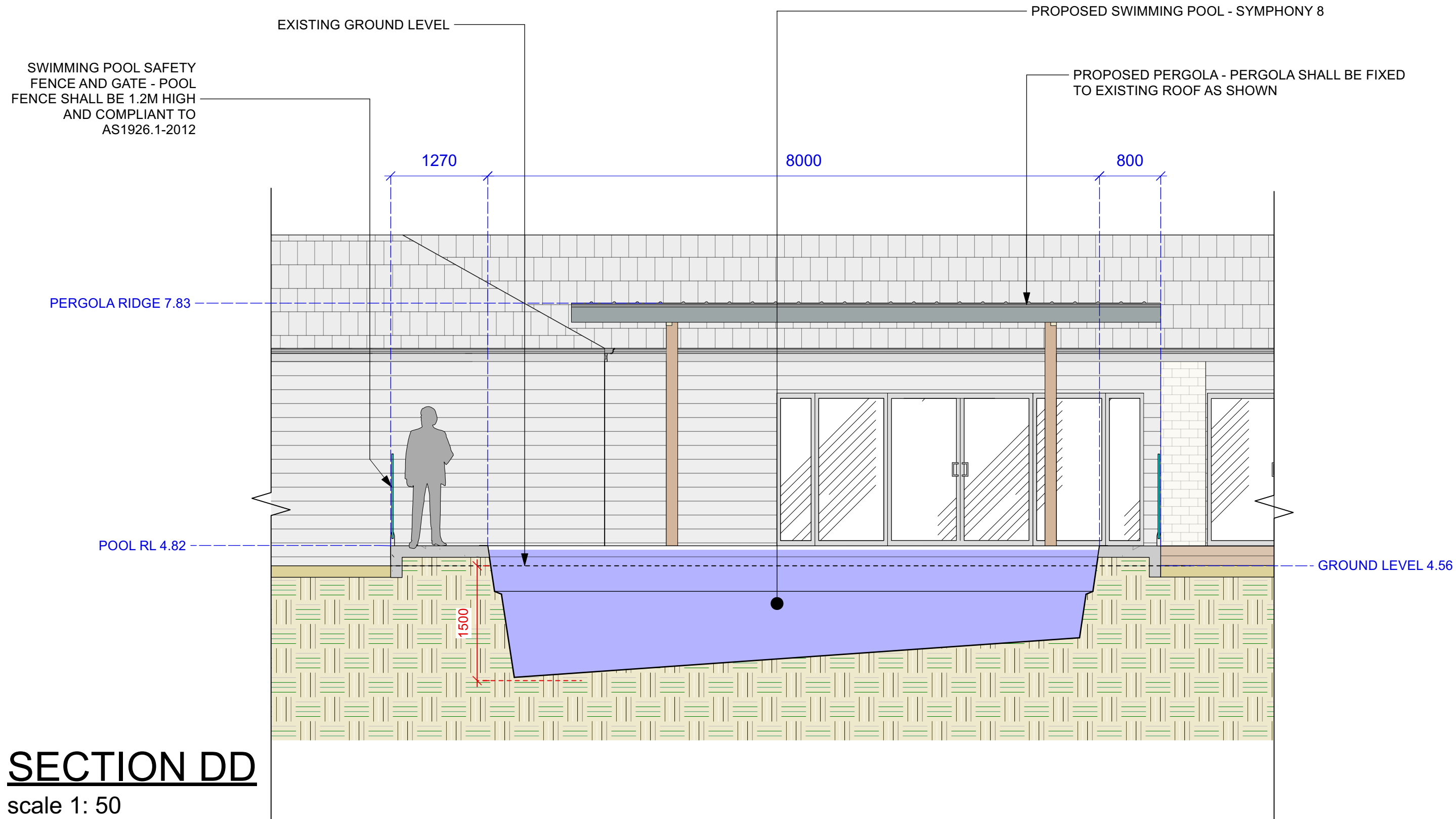
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26/05/21	B	
28/05/21	C	
18/06/21	D	

DATE:	18/06/2021	DRAWING
		<b>SECTION A</b>
SCALE:	1:50@ A3	DRAWING NO : <b>C2</b>
DRAWN:	CC	REV: <b>D</b>





NOTE: POOL EXCAVATION SHALL BE LESS THAN 1500mm IN DEPTH



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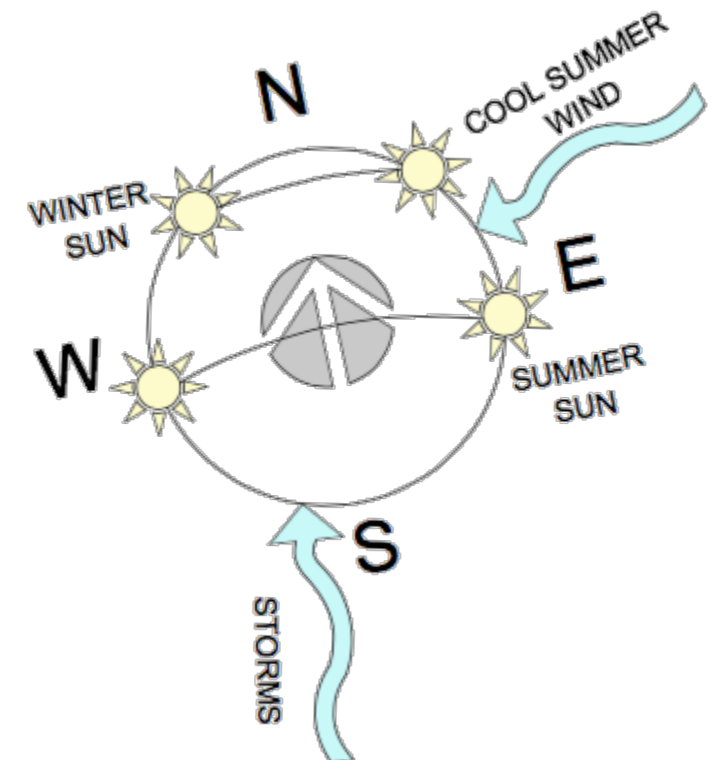
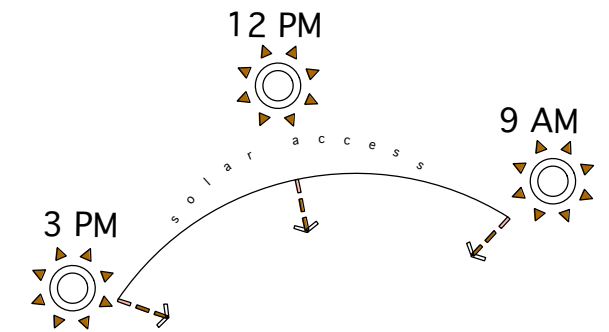
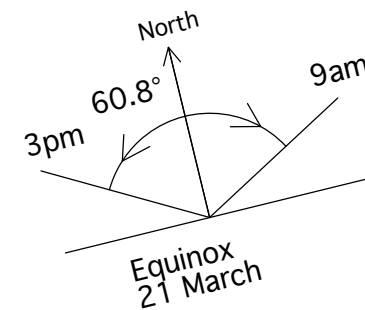
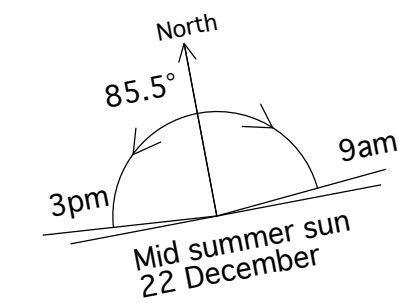
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DATE: 18/06/2021

SCALE: 1:50 @ A3

DRAWN: CC

DRAWING  
**SECTION D**  
DRAWING NO : C5  
REV: D



## PROJECT:

**Chris & Penny Naylor**

106 Shearwater Drive,  
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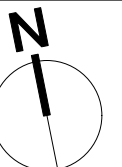
SCALE: 1:100@ A3

DRAWN: CC

DRAWING

## SITE ANALYSIS

DRAWING NO : C6

REV: **D**





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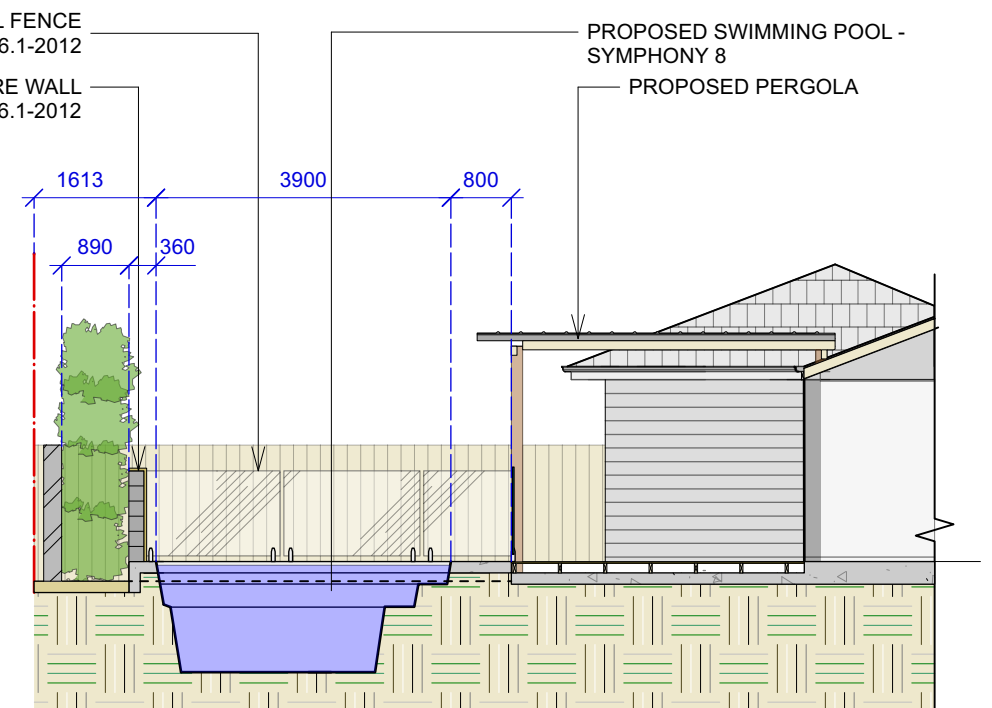
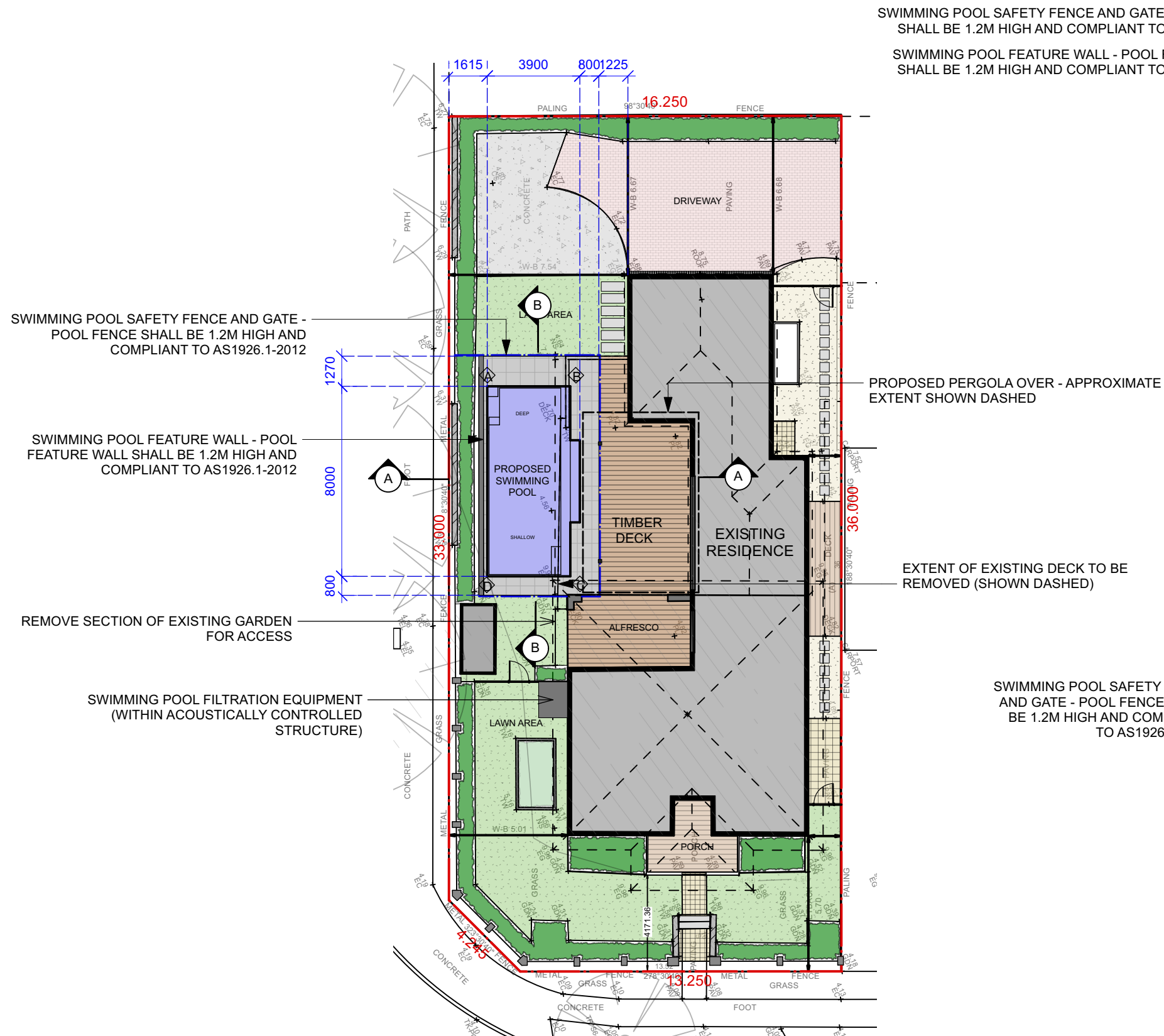
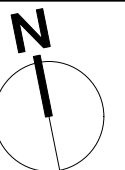
DATE: 18/06/2021

SCALE: NA @ A4

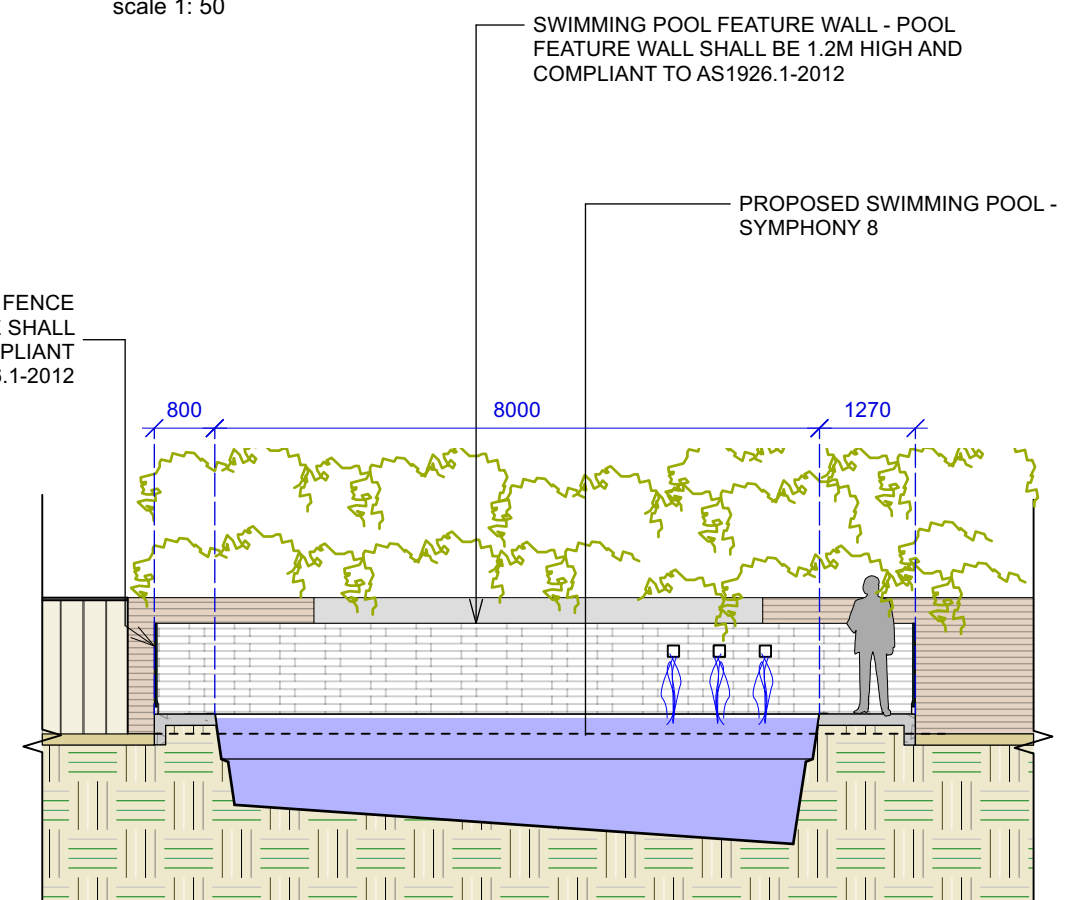
DRAWN: CC

DRAWING  
NOTIFICATION  
PLAN  
DRAWING NO : C8

REV: D



**SECTION AA**  
scale 1: 50



**SECTION BB**  
scale 1: 50



ALL PAVED AREAS AND COPING SHALL  
FALL TOWARDS GARDEN & LAWN AREAS

PROPOSED SWIMMING POOL  
OVERFLOW SHALL BE  
CONNECTED TO THE  
EXISTING SEWER SYSTEM

PROPOSED PERGOLA SHALL BE  
CONNECTED TO EXISTING  
STORMWATER SYSTEM -  
CONNECTED TO THE STREET

STREET

GARDEN

POPLER LANE

LOT 79  
DP 270385

CONTOUR  
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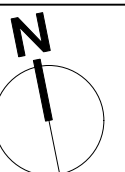
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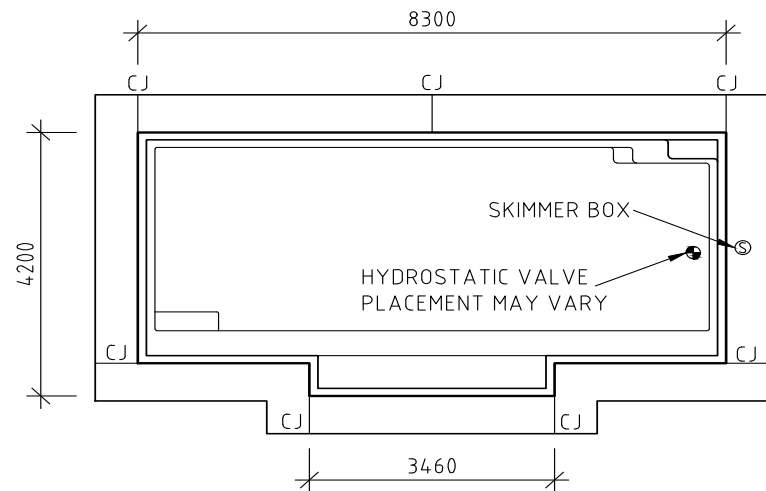
SCALE: 1:100@ A3

DRAWN: CC

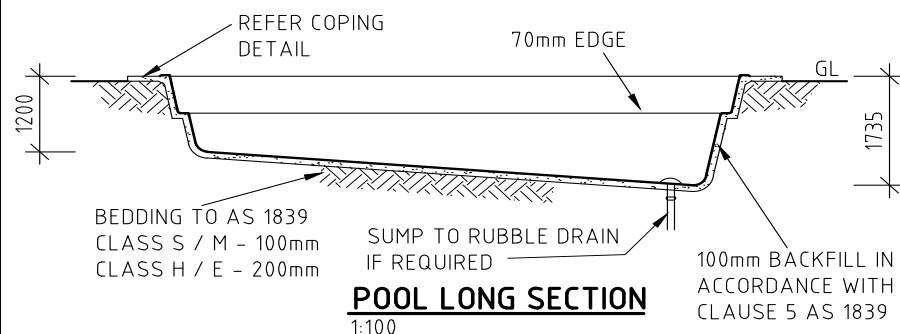
DRAWING  
**STORMWATER  
DRAINAGE PLAN**  
DRAWING NO : C9

REV: D

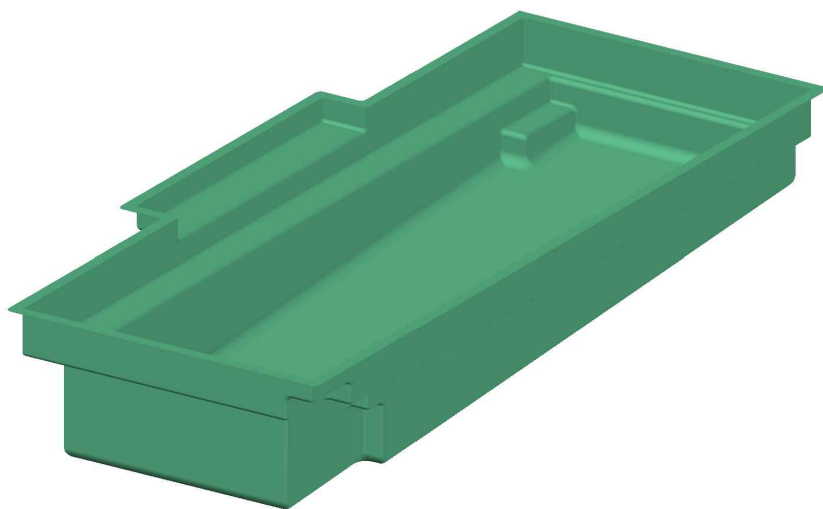




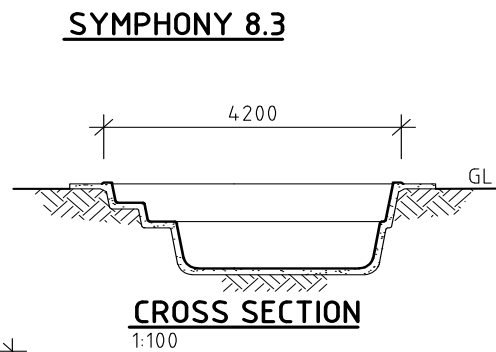
**POOL PLAN**  
1:100



**POOL LONG SECTION**  
1:100

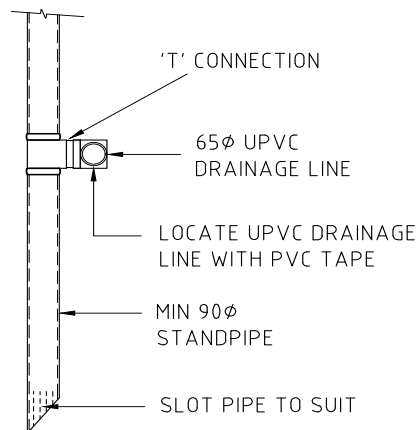


**SYMPHONY 8.3**

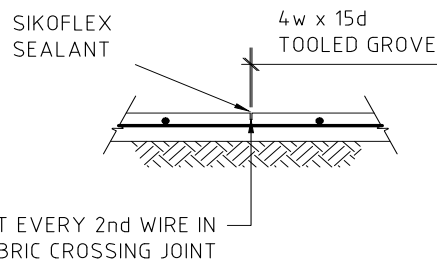


**CROSS SECTION**  
1:100

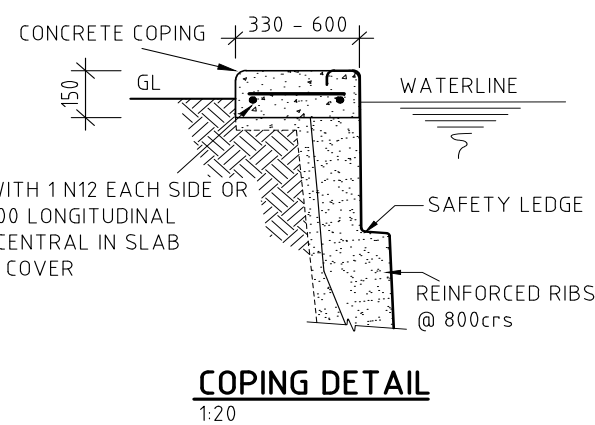
NOTE:  
COPING 350 WIDE ONLY FOR SOILS  
UP TO CLASS M (AS 2870).  
FOR CLASS H & E SOILS  
1200 W x 200 DEEP COPING. SL92  
PLUS 2 N12 EACH SIDE.



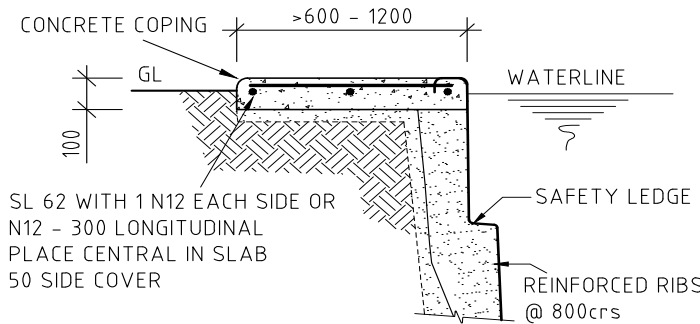
**STANDPIPE DETAIL**  
1:20



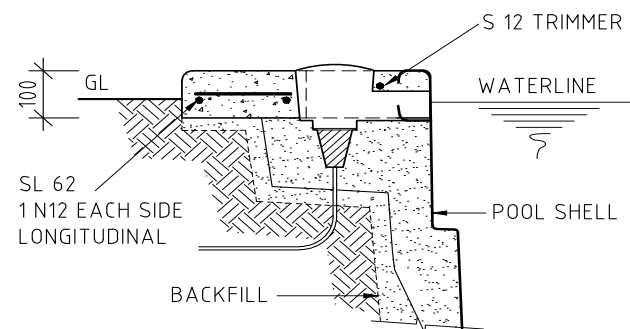
**CONTROL JOINT (CJ)**  
1:20



**COPING DETAIL**  
1:20



**EXTENDED COPING DETAIL**  
1:20





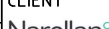
**SKIMMER BOX DETAIL**  
1:20

- CONSTRUCTION AND INSTALLATION OF THE POOL IS TO COMPLY WITH AS/NZS 1838 & 1839 CODES FOR PRE-MOULDED POOLS AND THE REQUIREMENTS OF ALL RELEVANT STATUTORY AUTHORITIES.
- THE REQUIRED FOUNDATION SAFE BEARING PRESSURE TO BE AT LEAST 90kPa: 'A'- 'E' SITES REACTIVITY RANGE PER AS 2870.
- PROVIDE A NOMINAL 100 THICK (200 THICK H & E SITES) BEDDING LAYER OF NON-COHESIVE PERMEABLE MATERIAL MAXIMUM SIZE 8mm. THE GRANULAR BASE SHALL BE SCREEDED AND THOROUGHLY COMPACTED TO PROVIDE UNIFORM SUPPORT FOR THE SHELL BASE.
- PLACE A GRAVEL PIT IN THE SUB-FLOOR SECTION BENEATH THE HYDROSTATIC VALVE.
- PROVIDE A MIN 90mm UPVC STANDPIPE (WITH A TEE CONNECTION TO THE 65mm UPVC. PROVIDE A SUBSOIL PERIMETER DRAIN).
- WHEN HANDLING THE POOL, PLACING IN THE EXCAVATION AND LEVELLING UP, LIFT AND HANDLE POOL WITH A CENTRE SPREADER BAR.
- PROVIDE A 100mm THICK (200mm THICK H & E SITES) APPROVED BACKFILL LAYER OF NON-COHESIVE GRADED MATERIAL OF MAX. SIZE 12mm, PRE-BLENDED WITH CEMENT.
- THE CONCRETE COPING TO BE SUPPORTED ON NATURAL GROUND OR STABILISED FILL MATERIAL IN ACCORDANCE WITH AS/NZS 1839 AND/OR PIERED DOWN TO NATURAL GROUND WITH MINIMUM 150mm Ø CONCRETE PIERS AT 1.2m CENTRES.
- THE FIBREGLASS SHELL SHALL BE LAID UP WITH A NOMINAL RESIN TO GLASS RATIO OF 1.9:1 TO A THICKNESS OF 5mm OVER 90% OF THE POOL. NO AREA IS TO BE LESS THAN 4mm AND THE COPING NO LESS THAN 8mm.
- RIBBING IS TO COMPRISE OF A CORE SECTION NOT LESS THAN 3mm WITH A COVERING LAYER OF FIBREGLASS AND RESIN TO A NOMINAL GLASS TO RESIN RATIO OF 1.9:1 TO A MINIMUM THICKNESS OF 1.5mm COVERING THE RIB SECTION. THE OVERALL THICKNESS OF RIB SECTION NOT LESS THAN 7mm.
- CONCRETE STRENGTH MINIMUM 20MPa AT 80mm SLUMP MAXIMUM 20mm AGGREGATE.
- FILTER TO BE CONNECTED TO SKIMMER BOX AT WATER RETURN PORTS WITH MINIMUM RETURN DIAMETER 40mm UPVC PIPES & FITTINGS & SHALL COMPLY WITH AS 1926.3 WATER RETICULATION SYSTEMS.
- POOL EMPTYING NOTES:  
THE POOL OWNER IS TO NOTIFY THE MANUFACTURER BEFORE ATTEMPTING TO EMPTY OR PARTLY EMPTY POOL WATER BELOW THE SKIMMER BOX, NO RESPONSIBILITY FOR DAMAGE TO THE POOL WILL BE ACCEPTED BY THE MANUFACTURER, THE MANUFACTURER'S AGENT OR THE ENGINEER.
- 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.

ENSURE ALL DIG DEPTHS AND LEVELS ARE CORRECT TO MAINTAIN THE REQUIRED POOL FINISH HEIGHT. IF THE HOLE HAS BEEN DUG TOO DEEP YOU MAY CORRECT THIS WITH BEDDING MATERIAL.  
"WHERE OVER-EXCAVATION OCCURS UNDER THE POOL, THE ADDITIONAL BASE FILL SHALL BE STABILISED AND THOROUGHLY COMPACTED PRIOR TO THE INSTALLATION OF THE BEDDING MATERIAL".

- NOTES:
- ALL APPROVED DRAWINGS FOR CERTIFICATION MUST BEAR ORIGINAL 'BLUE' SIGNATURE BY ESEN ENGINEERING PTY LTD.
  - THIS DRAWING MUST BE READ IN CONJUNCTION WITH THE RELEVANT SITE PLANS.
  - EXTERNAL POOL DIMENSIONS ARE COPING TO COPING.

		CIVIL AND STRUCTURAL ENGINEERS	
P 07 5578 8088   info@esenengineering.com Suite 12, Building 3 - Level 2 Lakehouse Offices 34-36 Glenferrie Dr, Robina QLD 4226			
0	FIRST ISSUE		11.11.19
REV	DESCRIPTION		DATE
DATE	NOV '19	DRAWN	IB
DESIGNED	RJS	SCALE	AS SHOWN
SIGNED			
R J SHOWERS RPEQ 1547 MIE Aust 321787 EC24162 ESEN ENGINEERING PTY LTD ACN 636 547 987			

PROJECT <b>STRUCTURAL DETAILS &amp; SPECIFICATIONS FOR CONSTRUCTION</b>	
CLIENT  NARELLAN POOLS PTY. LTD. 398 STAPYLTON JACOBS WELL RD, STAPYLTON, QLD 4207 PH: +61 7 3807 3188 www.Narellanpools.com.au	
DRAWING No NP74 - SYMPHONY - 8.3m	REV ...

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SCALE: NA @ A3

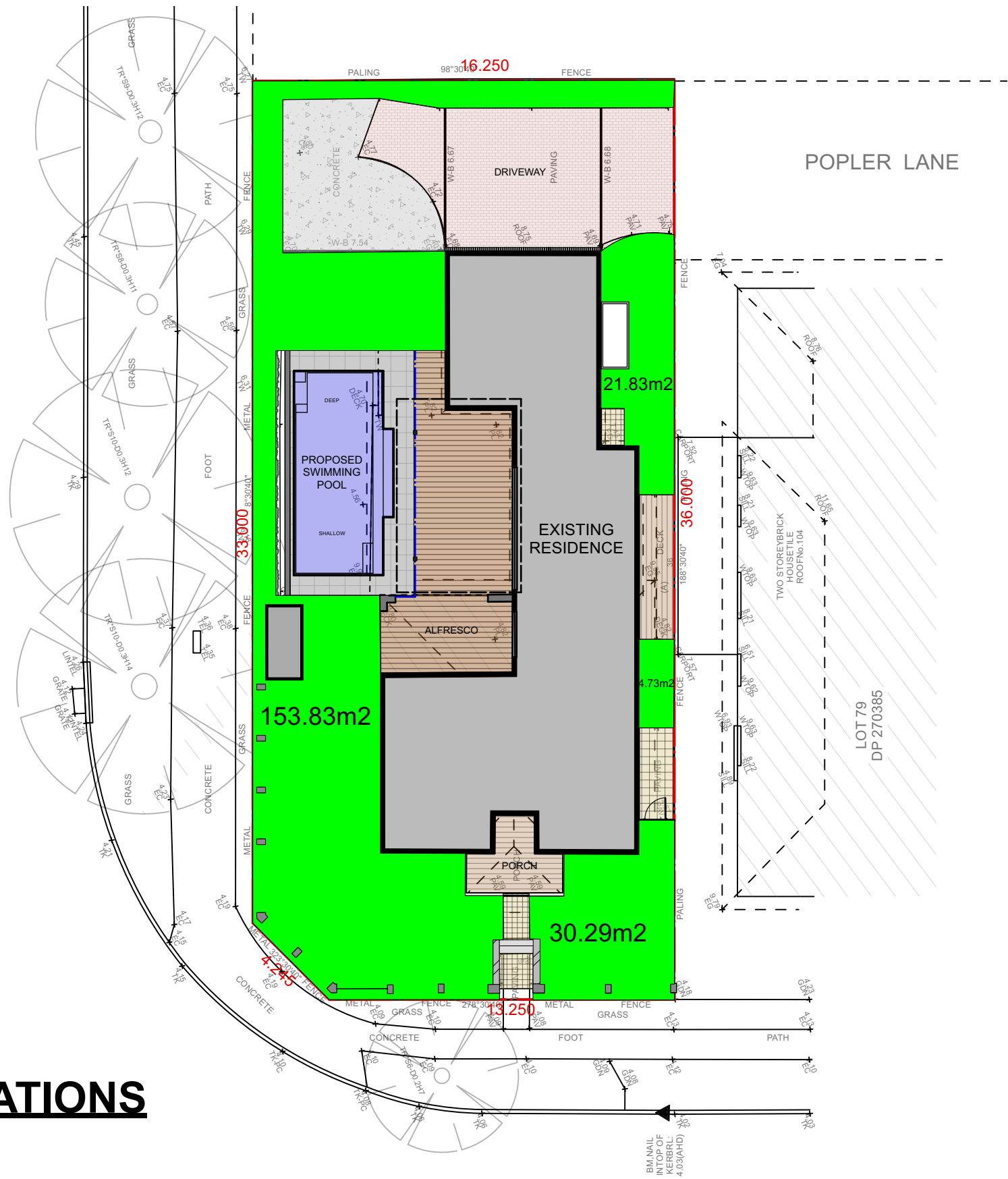
DRAWN: CC

DRAWING  
**SWIMMING POOL DETAIL**

DRAWING NO: C10

REV: D





SITE CALCULATIONS

scale 1:200

DEVLOPMENT COMPLIANCE TABLE	
LANDSCAPED AREA	
SITE AREA	590.2m2
PROPOSED LANDSCAPED AREA 35.69%	210.68m2
<div>- PROPOSED SWIMMING POOL AND SURROUNDS SHALL BE NO GREATER THAN 600mm ABOVE EXISTING LEVELS</div> <div>- SWIMMING POOL WATER CAPACITY IS LESS THAN 40,000 LITRES - SYMPHONY 8 - 30 000 LITRES</div> <div>- SWIMMING POOL LOCATED IN REAR YARD</div> <div>- NO WINDOWS AND DOORS TO OPEN INTO THE POOL AREA</div> <div>- SWIMMING POOL SAFETY FENCING &amp; SWIMMING POOL SHALL COMPLY WITH;</div> <div>- COUNCIL CODES</div> <div>- BUILDING CODE OF AUSTRALIA</div> <div>- SWIMMING POOLS ACT 1992-NO. 49</div> <div>- SWIMMING POOL SAFETY AS 1926.1-2007</div> <div>- SWIMMING POOL SAFETY AS 1926.2-2007</div> <div>- SWIMMING POOL SAFETY AS AS1926.1-2012 AS APPLICABLE.</div>	

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