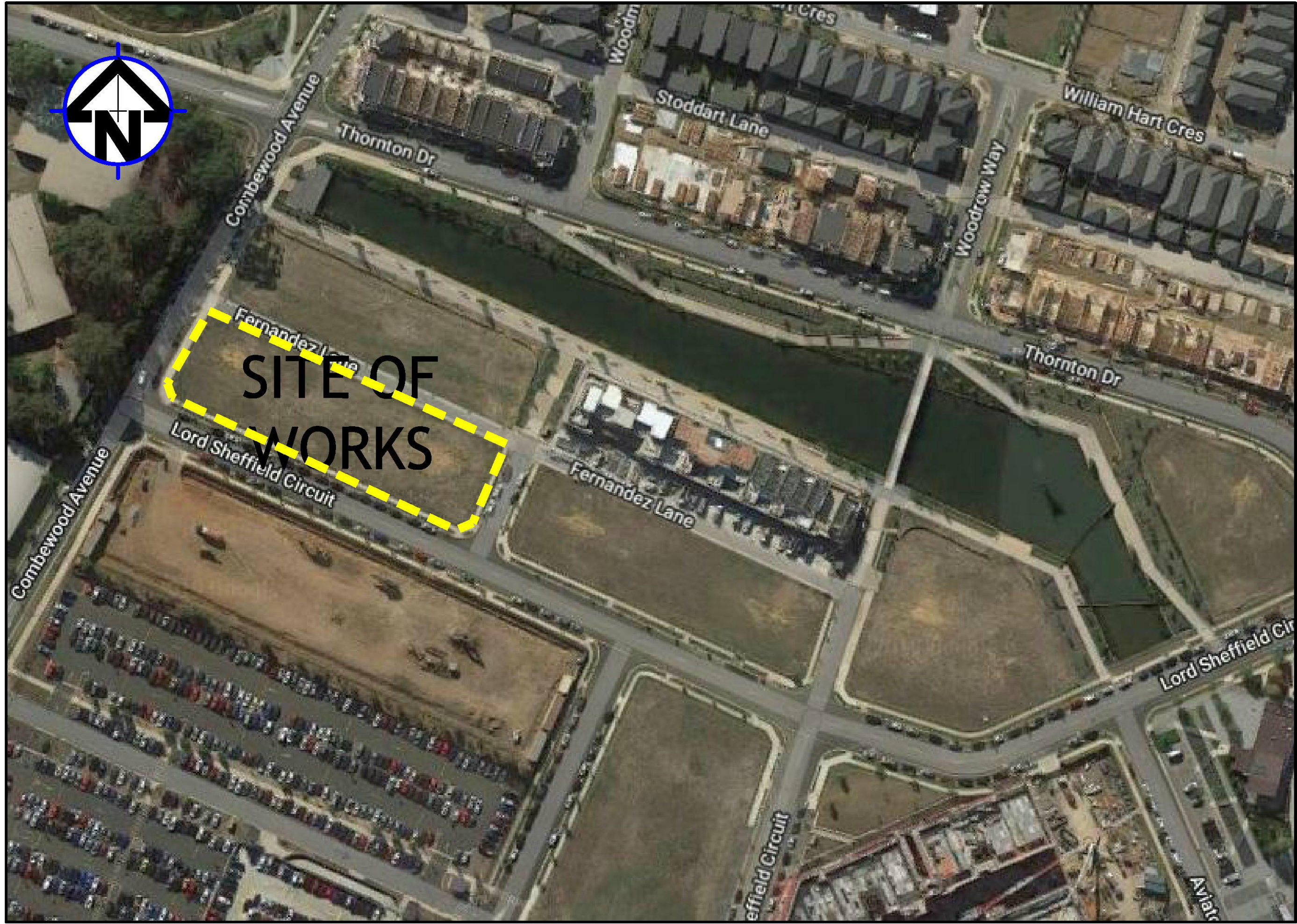


# PROSED RESIDENTIAL DEVELOPMENT LOT 211 LORD SHEFFIELD CIRCUIT, PENRITH STORMWATER CONCEPT DESIGN



LOCALITY PLAN  
NOT TO SCALE  
COPYRIGHT OF SIX MAPS

DRAWINGS LIST			
SHEET No.	DWG No.	TITLE	REV
1	SW100	COVER SHEET	A
2	SW200	STORMWATER CONCEPT DESIGN - BASEMENT PLAN	A
3	SW201	STORMWATER CONCEPT DESIGN - GROUND FLOOR PLAN - SHEET 1 OF 2	A
4	SW202	STORMWATER CONCEPT DESIGN - GROUND FLOOR PLAN - SHEET 2 OF 2	A
5	SW300	STORMWATER CONCEPT DESIGN - DETAILS SHEET	A
6	SW400	EROSION AND SEDIMENT CONTROL - PLAN AND DETAILS	A



**PREPARED BY:**  
SGC Consulting Engineers  
Suite 5.03, Level 5  
156 Pacific Highway  
St. Leonards, NSW 2065  
T: +61 2 8883 4239  
Email: office@sgce.com.au  
Web: www.sgce.com.au





SERVICES ON THIS DRAWING  
ARE SHOWN BELOW SLAB U.N.O

Ø200mm DISH DRAIN OUTLET TYPE SPS  
OR APPROVED EQUIVALENT (TYP.)

Ø200mm HALF ROUND DISH DRAIN TO  
PERIMETER WALL OF BASEMENT.

SUBSOIL PUMP OUT PIT:  
RL: 16.80  
TWL: 16.50  
IL: 15.30  
AREA: 3.00m<sup>2</sup>  
VOLUME REQUIRED: 1.46m<sup>3</sup>  
VOLUME PROVIDED: 3.60m<sup>3</sup>  
INSTALL 2x SUBMERSIBLE PUMPS EACH  
WITH A PUMP CAPACITY OF 10L/s AT  
12.0m HEAD.

INSTALL 900SQ HEAVY DUTY STEEL  
GRATED LID FOR ACCESS AND  
MAINTENANCE PURPOSES.

INSTALL STEP IRONS. REFER TO DETAILS.

INSTALL CONFINED SPACE SIGN FOR PUBLIC  
AWARENESS AND WARNING.

STORMWATER RISING MAIN:  
1x80mm uPVC CLASS 12.

PUMP OUT PIT CONTROL BOX  
TO MANUFACTURERS SPECIFICATIONS.

INSTALL WARNING FLASH LIGHT TO  
PROVIDE INDICATION OF PUMP  
FAILURE

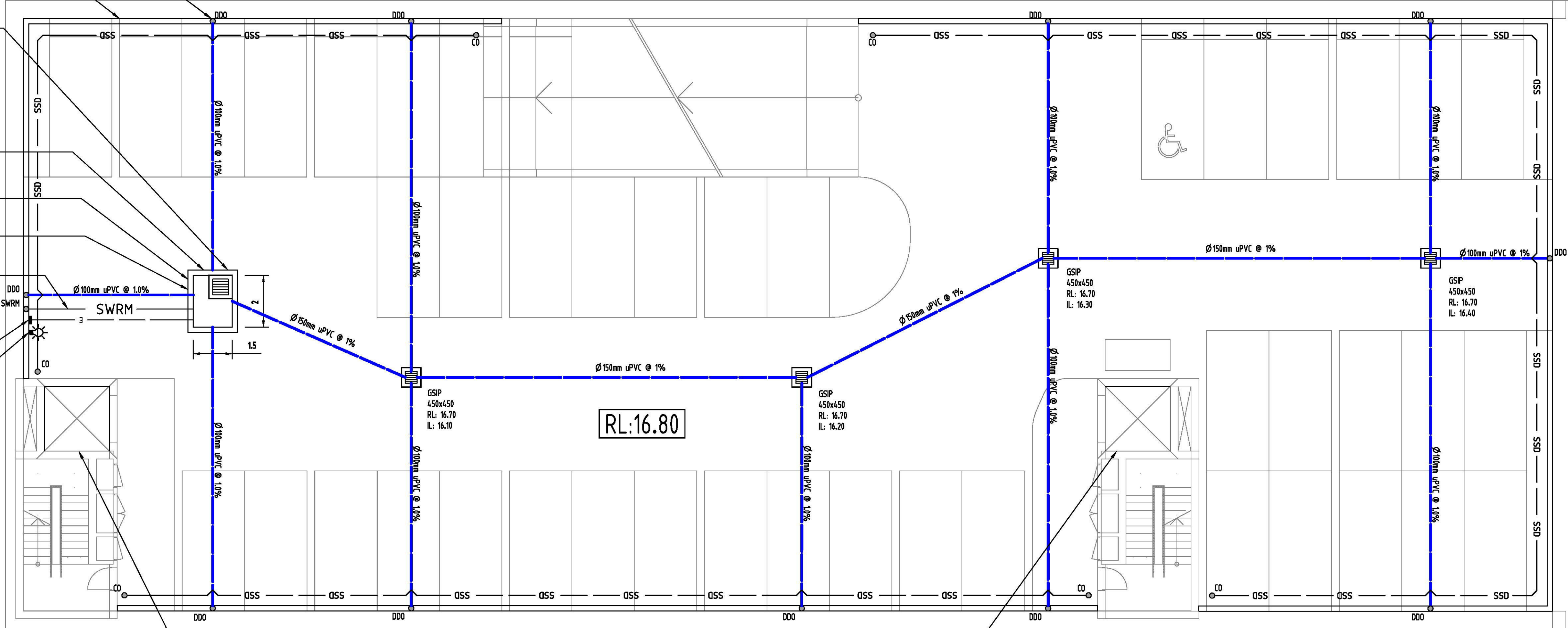
SUBSOIL DESIGN CALCS:

100yr 2hr ARI STORM= 44.4mm/hr  
ARxZ=88.8mm  
AREA OF DRIVEWAY  
RAMP UNCOVERED= 0m<sup>2</sup>

V=Axd  
=0x16.50/1000  
=0x0.0165  
=0m<sup>3</sup>

THEREFORE, A VOLUME OF 3.60m<sup>3</sup> SUBSOIL  
PUMP OUT PIT WILL BE APPLIED AS PER  
AUSTRALIAN STANDARD.

NOTE:  
BASEMENT DRAINAGE DESIGN SUBJECT TO  
GEOTECHNICAL INVESTIGATION AND  
STRUCTURAL DESIGN OF WALLS AND SLABS.



LIFT PIT TO BE FULLY TANKED TO STRUCTURAL DETAILS.

Reference Coordination Drawing			
Discipline	Drawing Title and Number	Date	Rev.
ARCH			
ARCH			
STRUCT			
MECH			
ELEC			
HYD			
FIRE			
LANDS			
CIVIL			
SURVEY			

Issue Internal sequence and revision history			
Issue	Last revision title	by	Date
1-preliminary			
2-development application			
3-construction			
4-tender			
5-construction			
6-other			

ENGINEERS  
AUSTRALIA  
Chartered Professional Engineer  
MEMBER

DIMENSIONS NOT SHOWN TO BE CHECKED ON  
SITE. DO NOT SCALE OF THIS DRAWING.  
POSTING OF AUTHORITIES NAME AND/OR  
EXISTING SERVICES ARE TO BE CHECKED  
PRIOR TO COMMENCEMENT OF WORK. REPORT  
ANY DISCREPANCIES TO THE CONSULTING  
ENGINEER FOR DESIGN/CLARIFICATION  
BEFORE PROCEEDING WITH THE WORK. THIS  
DRAWING IS TO BE READ IN CONJUNCTION  
WITH THE SPECIFICATIONS AND OTHER  
CONSULTANTS' DRAWINGS.

QUALITY CONTROL			
DRAWN	AA	DATE	04.04.19
CHECKED	SH	DATE	04.04.19
DESIGNED	AA	DATE	04.04.19
VERIFIED	SH	DATE	04.04.19
APPROVED	SH	DATE	04.04.19

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WHOLLY OR IN PART IN ANY FORM WITHOUT THE  
WRITTEN CONSENT OF S&G CONSULTANTS PTY LTD

Scales

0m 1 2 3 4 5

SCALE 1:100 ON ORIGINAL SIZE

CLIENT

URBAN

ARCHITECT

DKO

SGC  
Engineering Value

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Web: www.sgce.com.au

A.B.N. 21 118 222 530

PROJECT

PROPOSED RESIDENTIAL  
DEVELOPMENT  
LOT 211 LORD SHEFFIELD CIRCUIT,  
PENRITH

Grid Datum Sheet Scale (at original size)

- A.H.D. 2 OF 6 1:100 @ A1

Drawing Status

FOR APPROVAL  
NOT TO BE USED FOR CONSTRUCTION PURPOSES

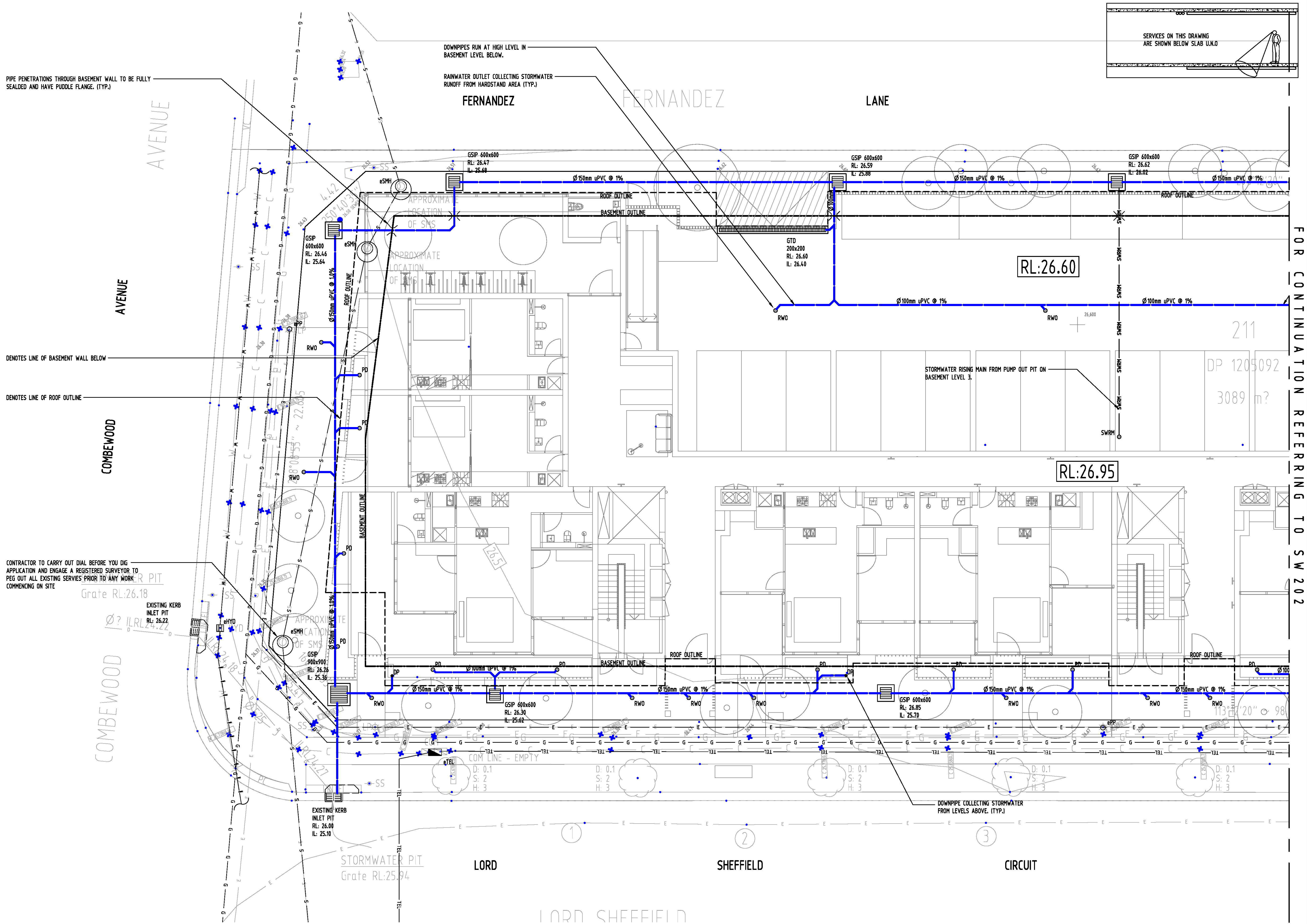
Drawing Title

STORMWATER CONCEPT DESIGN  
BASEMENT PAAN

Project No Drawing No Revision No

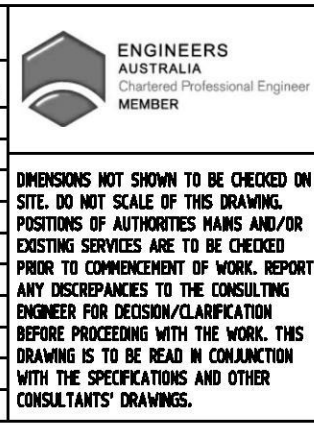
20160273 SW200 A



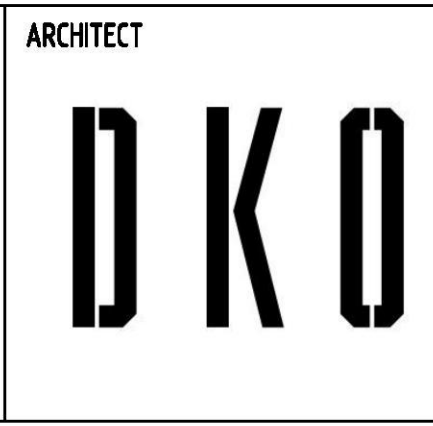
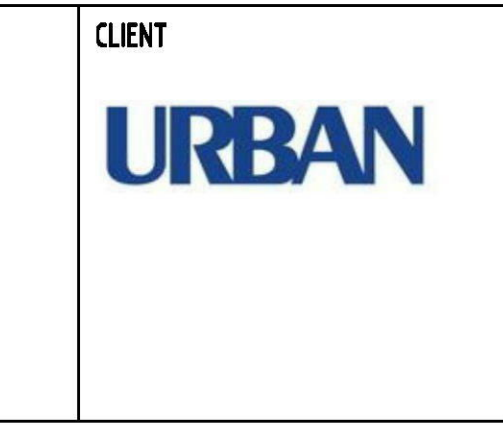
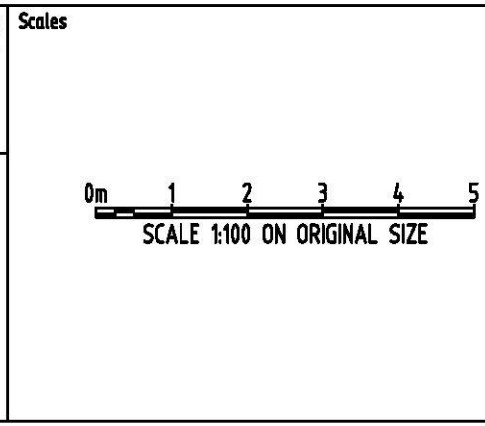
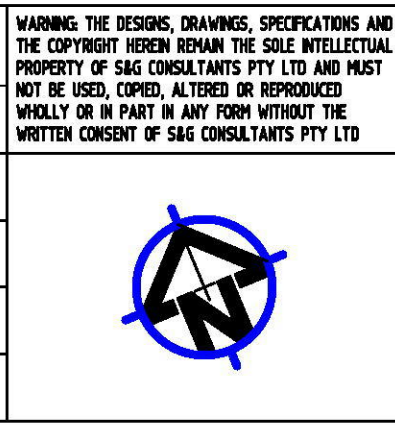


Reference Coordination Drawing			
Discipline	Drawing Title and Number	Date	Rev.
ARCH			
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Issue	Last revision title	by	Date
1-preliminary		AA	04.04.19
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3-construction			
4-tender			
5-construction certificate			
6-other			



QUALITY CONTROL			
DRAWN	AA	DATE	04.04.19
CHECKED	SH	DATE	04.04.19
DESIGNED	AA	DATE	04.04.19
VERIFIED	SH	DATE	04.04.19
APPROVED	SH	DATE	04.04.19



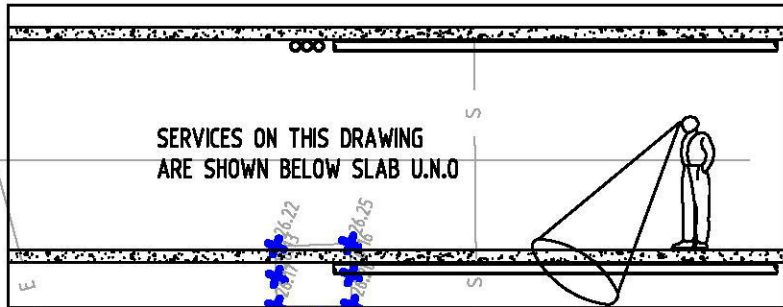
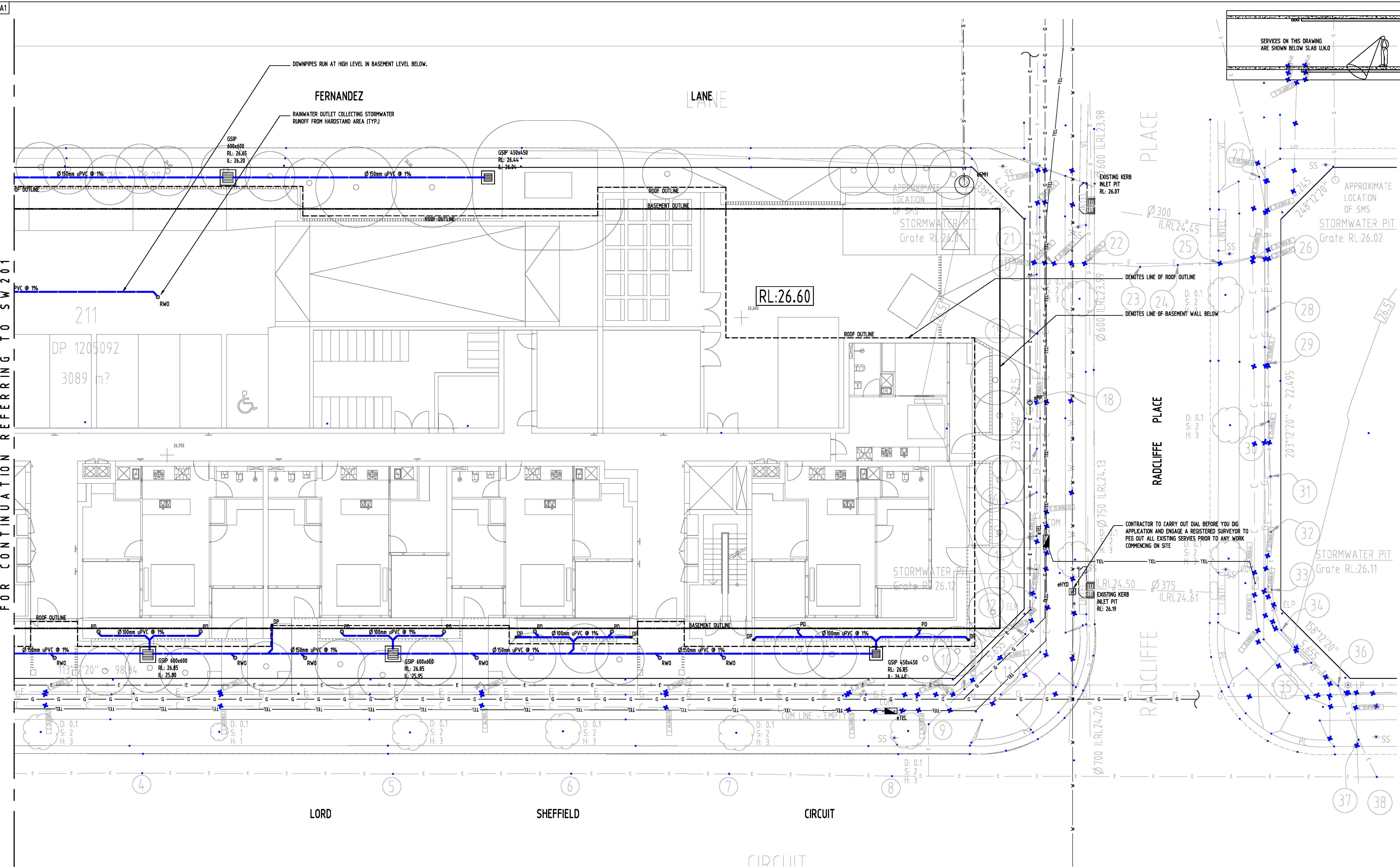
Suite 5.03, Level 5,  
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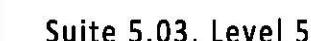


A.B.N. 21 118 222 530

PROJECT			
PROPOSED RESIDENTIAL DEVELOPMENT			
LOT 211 LORD SHEFFIELD CIRCUIT, PENRITH			
Grid	Datum	Sheet	Scale (at original size)
-	A.H.D.	3 OF 6	1:100 @ A1

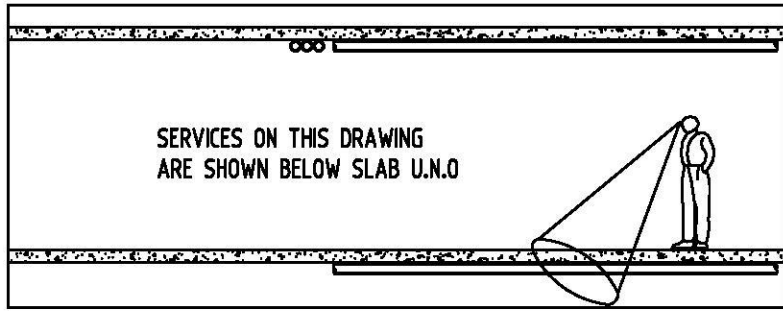
Drawing Status		
FOR APPROVAL		
NOT TO BE USED FOR CONSTRUCTION PURPOSES		
Drawing Title		
STORMWATER CONCEPT DESIGN		
GROUND FLOOR PLAN		
SHEET 1 OF 2		
Project No	Drawing No	Revision No
20160273	SW201	A





										Reference Coordination Drawing				 <div>ENGINEERS AUSTRALIA Accredited Professional Engineer MEMBER</div>		QUALITY CONTROL				WARNING: THE DESIGN, DRAWINGS, SPECIFICATIONS AND THE COPYRIGHT HEREIN REMAIN THE SOLE INTELLECTUAL PROPERTY OF SGC CONSULTANTS PTY LTD AND MUST NOT BE USED, COPIED, ALTERED OR REPRODUCED WHOLLY OR IN PART IN ANY FORM WITHOUT THE WRITTEN CONSENT OF SGC CONSULTANTS PTY LTD				Scales		CLIENT		ARCHITECT				PROJECT				Drawing Status													
										Discipline				Drawing Title and Number		Date		Rev.		DRAWN				AA				DATE		04.04.19		Suite 5.03, Level 5, 156 PACIFIC HIGHWAY ST. LEONARDS, NSW 2065 T: +61 2 8883 4239 Email: office@sgce.com.au Web: www.sgce.com.au				PROPOSED RESIDENTIAL DEVELOPMENT				NOT TO BE USED FOR CONSTRUCTION PURPOSES									
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										STRUCT										VERIFIED				SH				DATE		04.04.19		SCALE 1:100 ON ORIGINAL SIZE										SHEET 2 OF 2							
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- LEGEND:**
- STORMWATER LINE
  - SSD SUBSOIL LINE
  - SWRM SWRM STORMWATER RISING MAIN
  - EXISTING STORMWATER LINE
  - SW SW AUTHORITY STORMWATER LINE
  - S AUTHORITY SEWER LINE
  - W AUTHORITY WATER LINE
  - G AUTHORITY GAS LINE
  - E AUTHORITY ELECTRICITY LINE
  - UE AUTHORITY UNDERGROUND ELECTRICITY LINE
  - FO FO AUTHORITY FIBRE OPTIC LINE
  - TEL AUTHORITY COMMS LINE
  - FENCE LINE
  - GRADED SURFACE INLET PIT
  - GRADED SURFACE INLET PIT WITH ENVIROPOD INSERT
  - JUNCTION PIT
  - KERB INLET PIT
  - EXISTING KERB INLET PIT
  - OFF OVERLAND FLOW PATH
  - RWO RAINWATER OUTLET
  - DDO DISH DRAIN OUTLET
  - PD PLANTER DRAIN
  - CAP
  - DP DOWNPIPE
  - WALL PENETRATION

**DRAINAGE NOTES:**

ALL PIPES TO BE LAID ON 75mm SAND BED WITH THE BARRELS FULLY SUPPORTED

100mm AND 150mm DIAMETER PIPES TO BE LAID ON MINIMUM 1% GRADE

MINIMUM DEPTH OF COVER FOR PIPES NOT SUBJECT TO VEHICULAR LOADING TO BE 300mm

ALL DRAINAGE PIPES LAID UNDER PAVEMENT SHALL BE REINFORCED CONCRETE WITH RUBBER RING JOINTS

BACKFILL TRENCHES WITH COMPACTED SAND OR APPROVED AGGREGATE MATERIAL

HEAVY DUTY GRATES AND COVERS ARE TO BE PROVIDED IN TRAFFICABLE AREAS

PIT GRATE TO BE TYPE WELDLOK OR APPROVED EQUIVALENT

ALL PITS SHALL BE PROVIDED WITH A LOCKING CLIP

ALL PITS SHALL BE MAINTAINED REGULARLY

TOP OF BENCHING SHALL BE TO THE HALF OF THE OUTLET PIPE DIAMETER

Ø100 SUBSOIL DRAINAGE PIPE 3000mm LONG WRAPPED IN FABRIC SOCK TO BE PROVIDED ADJACENT TO INLET PIPES

COMPRESSIVE STRENGTH  $f_{cu}$  FOR CAST IN SITU CONCRETE TO BE A MINIMUM OF 20MPa AT 28 DAYS

ISOLATED JOINTS TO BE PROVIDED TO ISOLATE CONCRETE PAVEMENTS FROM PITS

ALL TRENCH GRATES PROVIDED SHALL HAVE A MINIMUM CLEAR WIDTH OF 200mm

STORMWATER DRAINAGE CONNECTIONS TO THE MAIN SYSTEM SHALL BE TO THE REQUIREMENTS AND THE SATISFACTION OF LOCAL COUNCIL

**DESIGN NOTES:**

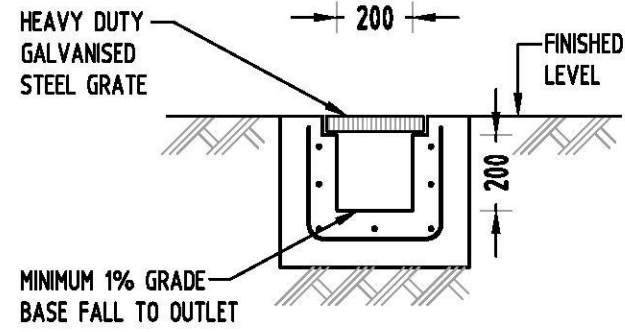
THE SITE IS LOCATED IN PENRITH CITY COUNCIL LGA.

SITE AREA: 3084.00m<sup>2</sup>

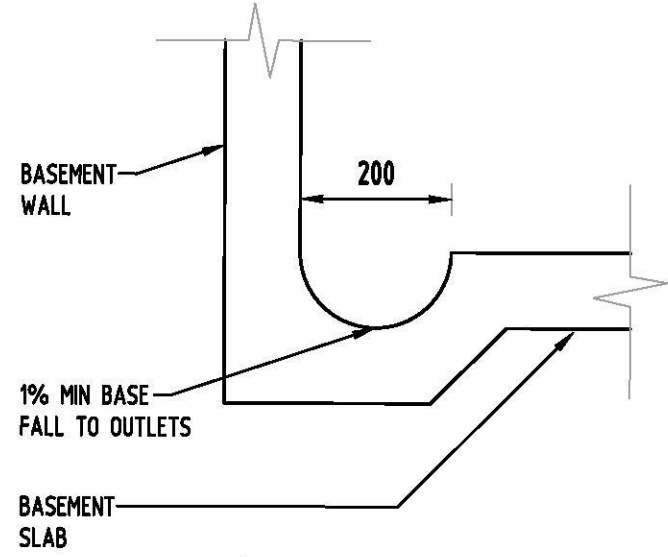
ON-SITE DETENTION IS NOT REQUIRED ACCORDING TO COUNCIL STORMWATER ENGINEER.

WSUD IS NOT REQUIRED ACCORDING TO COUNCIL STORMWATER ENGINEER.

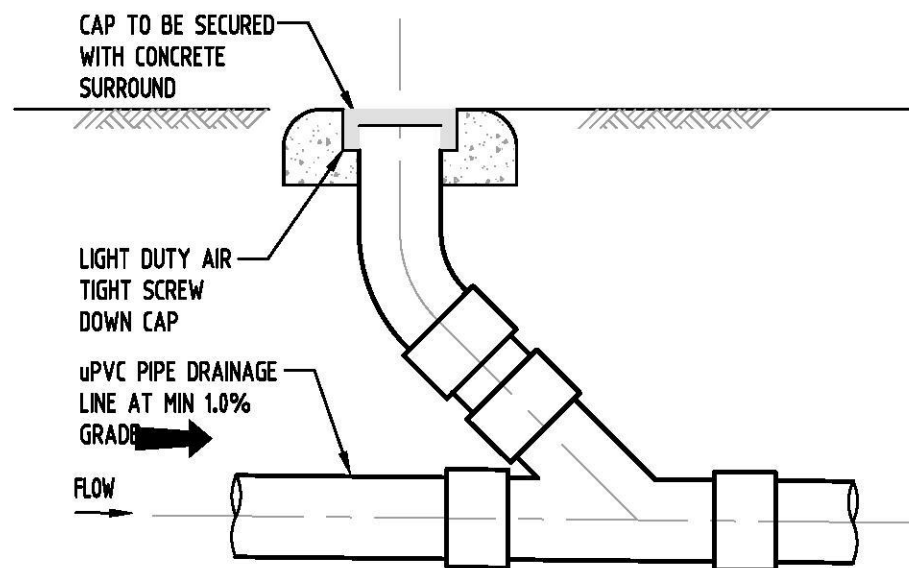
SERVICES SHOWN ON PLAN ARE INDICATIVE, EXACT DEPTH AND LOCATION TO BE CONFIRMED ONSITE. CONTRACTOR TO CARRY OUT DIAL BEFORE YOU DIG APPLICATION AND ENGAGE A REGISTERED SURVEYOR TO PEG OUT ALL EXISTING SERVICES PRIOR TO ANY WORK COMMENCING ONSITE.



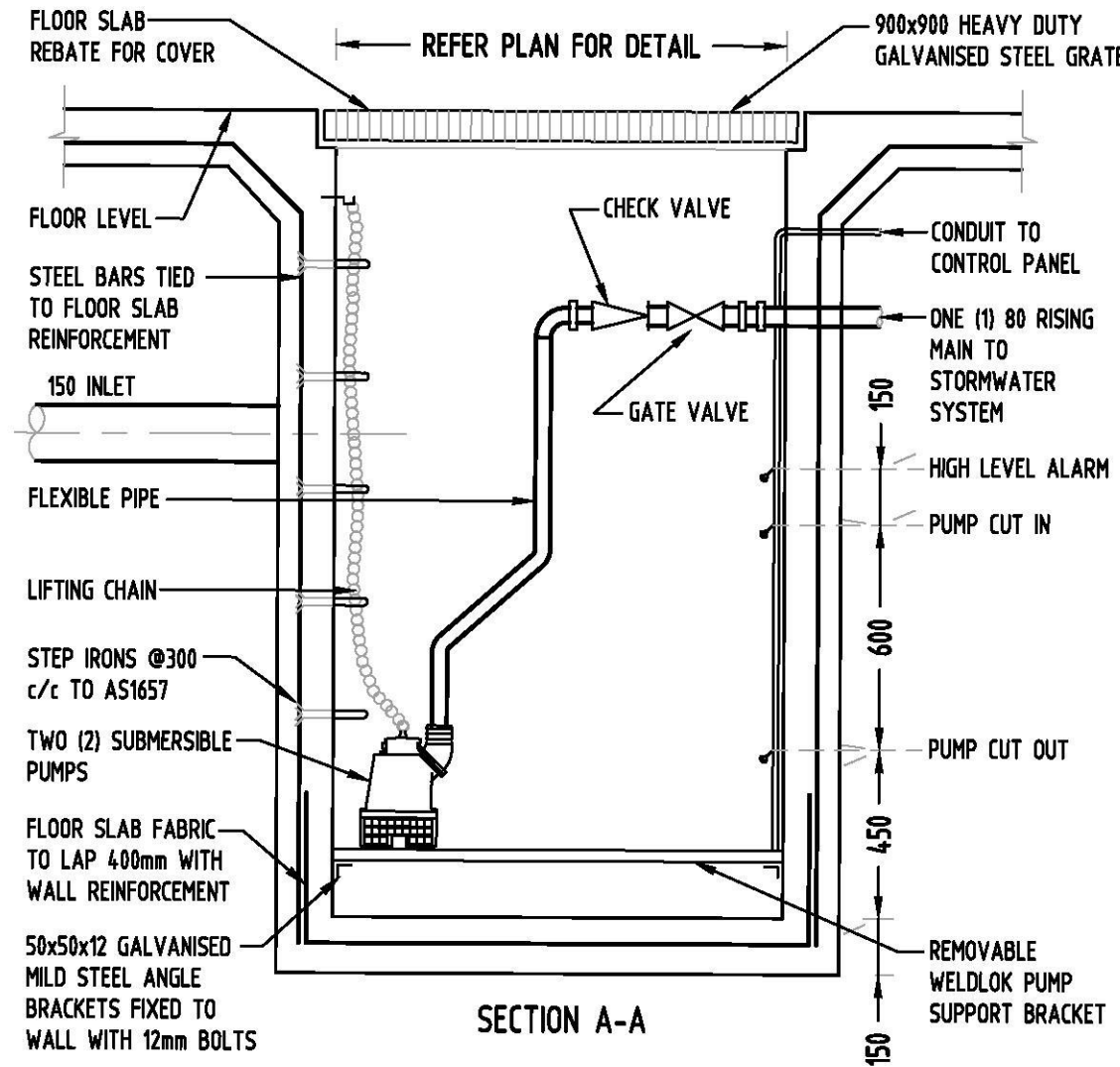
**1** DETAIL  
-  
GRADED TRENCH DRAIN  
NOT TO SCALE



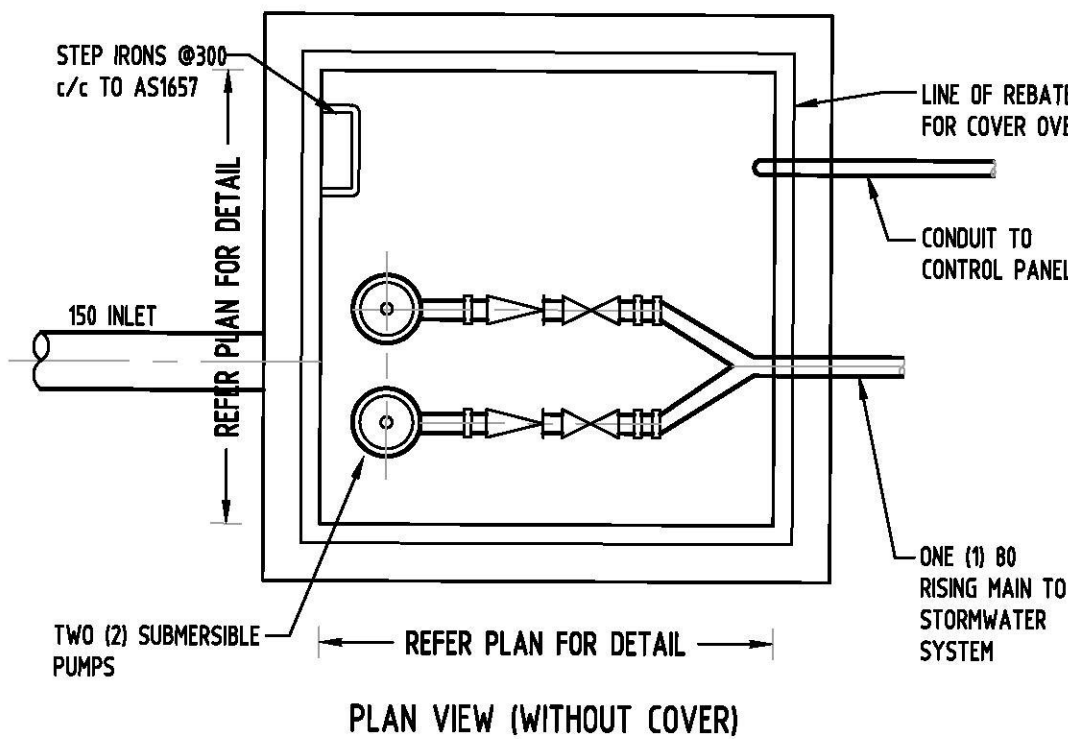
**2** DETAIL  
-  
DISH DRAIN  
SCALE 1:10



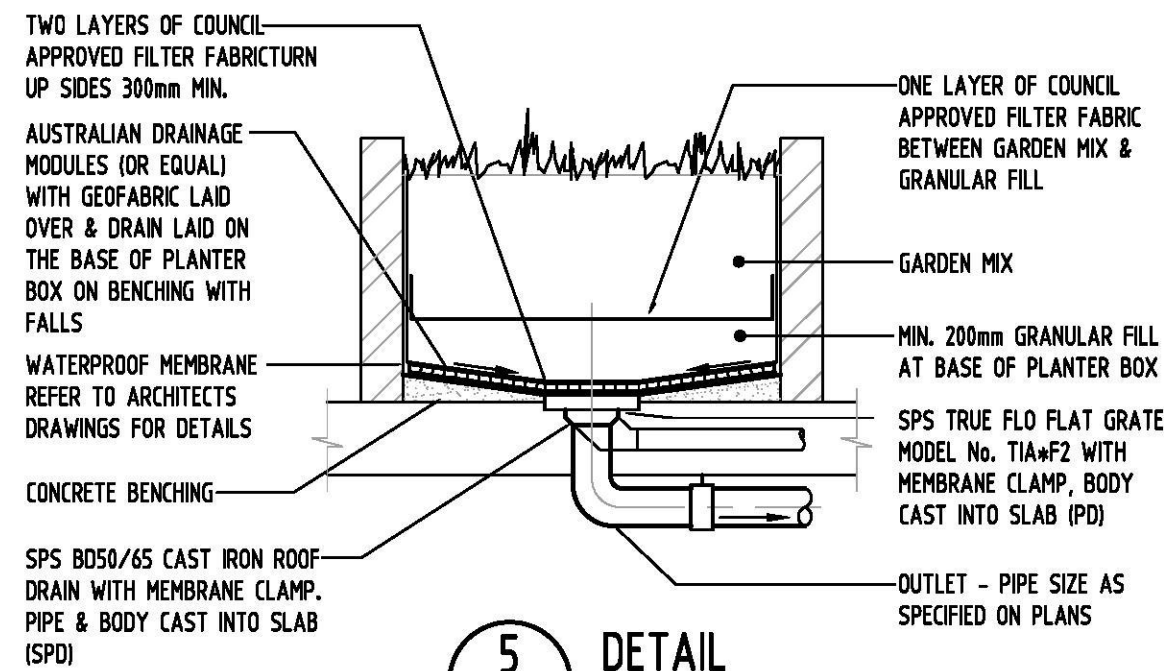
**3** DETAIL  
-  
CLEANING EYE  
SCALE 1:10



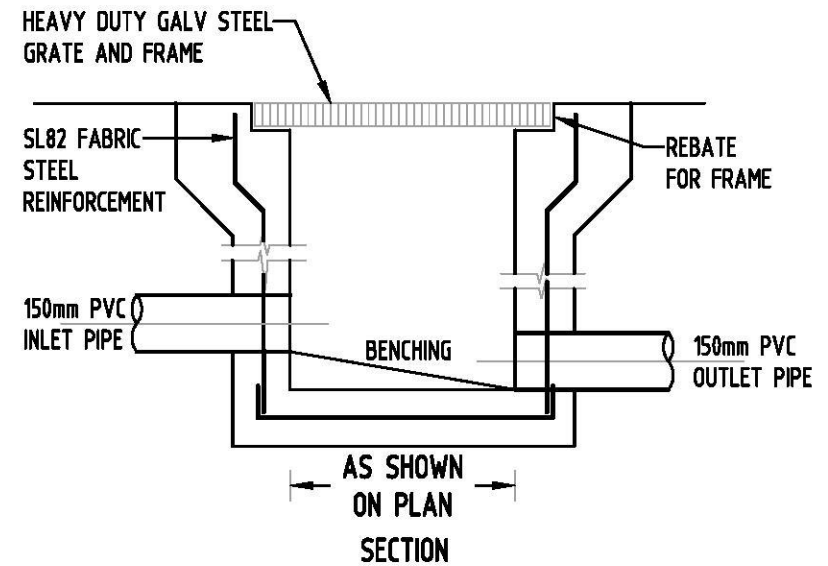
SECTION A-A



**4** DETAIL  
-  
SUBSOIL PUMP OUT PIT  
SCALE 1:20



**5** DETAIL  
-  
PLANTER DRAIN  
SCALE 1:20



PLAN WITHOUT GRATE

**6** DETAIL  
-  
STORMWATER PIT  
SCALE 1:20

Reference Coordination Drawing			
Discipline	Drawing Title and Number	Date	Rev.
ARCH			
ARCH			
STRUCT			
MECH			
ELEC			
HYD			
PIPE			
LANDS			
CIVIL			
SURVEY			

Issue			
Issue	Last revision title	by	Date
A	ISSUE FOR DA	AA	04.04.19
1	1-preliminary		
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3	3-construction		
4	4-tender		

Issue internal sequence and revision history			
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3	3-construction		
4	4-tender		

ENGINEERS AUSTRALIA
Qualified Professional Engineer
MEMBER

QUALITY CONTROL			
DRAWN	AA	DATE	04.04.19
CHECKED	SH	DATE	04.04.19
DESIGNED	AA	DATE	04.04.19
VERIFIED	SH	DATE	04.04.19
APPROVED	SH	DATE	04.04.19

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Scales

0m 1 2 3 4 5  
SCALE 1:100 ON ORIGINAL SIZE

CLIENT

URBAN

ARCHITECT

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PROJECT  
PROPOSED RESIDENTIAL  
DEVELOPMENT  
LOT 211 LORD SHEFFIELD CIRCUIT,  
PENRITH

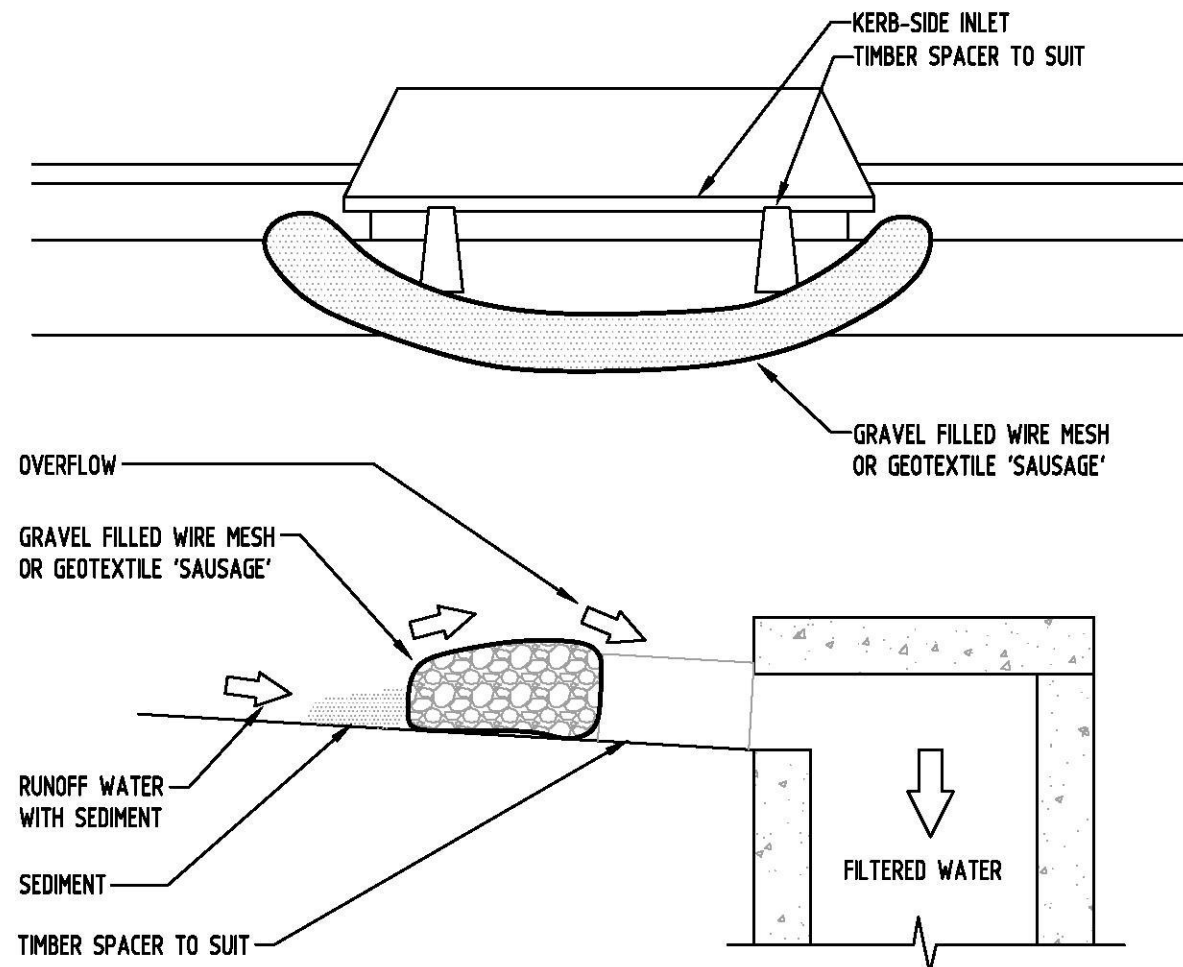
Grid	Datum	Sheet	Scale (at original size)
-	A.H.D.	5 OF 6	AS SHOWN

Drawing Status FOR APPROVAL  
NOT TO BE USED FOR CONSTRUCTION PURPOSES

Drawing Title  
STORMWATER CONCEPT DESIGN  
DETAILS SHEET

Project No	Drawing No	Revision No
20160273	SW300	A





CONSTRUCTION NOTES:

FABRICATE A SLEEVE MADE FROM GEOTEXTILE OR WIRE MESH LONGER THAN THE LENGTH OF THE INLET PIT

FILL THE SLEEVE WITH 25mm TO 50mm GRAVEL

FORM AN ELLIPTICAL CROSS-SECTION OF THE KERB INLET LEAVING A 100mm GAP AT THE TOP TO ACT AS AN EMERGENCY SPILLWAY

MAINTAIN THE OPENING WITH SPACER BLOCKS

FORM A SEAL WITH THE KERBING AND PREVENT SEDIMENT BYPASSING THE FILTER

FIT TO ALL KERB INLETS AT SAG POINTS

EROSION & SEDIMENTATION CONTROL NOTES

- CONTRACTOR SHALL PROVIDE SEDIMENT FENCING MATERIAL DURING CONSTRUCTION TO THE LOW SIDE OF THE WORKS. THE SEDIMENT FENCING MATERIAL TO CYCLONE WIRE SECURITY FENCE. SEDIMENT CONTROL FABRIC SHALL BE AN APPROVED MATERIAL (EG. HUMES PROPEX SILT STOP) STANDING 300mm ABOVE GROUND & EXTENDING 150mm BELOW GROUND.
- EXISTING DRAINS LOCATED WITHIN THE SITE SHALL ALSO BE ISOLATED BY SEDIMENT FENCING MATERIAL.
- NO PARKING OR STOCKPILING OF MATERIALS IS PERMITTED ON THE LOWER SIDE OF THE SEDIMENT FENCE.
- GRASS VERGES SHALL BE MAINTAINED AS MUCH AS PRACTICAL TO PROVIDE A BUFFER ZONE TO THE CONSTRUCTION SITE.
- CONSTRUCTION ENTRY/EXIT SHALL BE VIA THE LOCATION NOTED ON THE DRAWING. CONTRACTOR SHALL ENSURE ALL DROPPABLE SOIL & SEDIMENT IS REMOVED PRIOR TO CONSTRUCTION TRAFFIC EXITING SITE. CONTRACTOR SHALL ENSURE ALL CONSTRUCTION TRAFFIC ENTERING & LEAVING THE SITE DO SO IN A FORWARD DIRECTION.

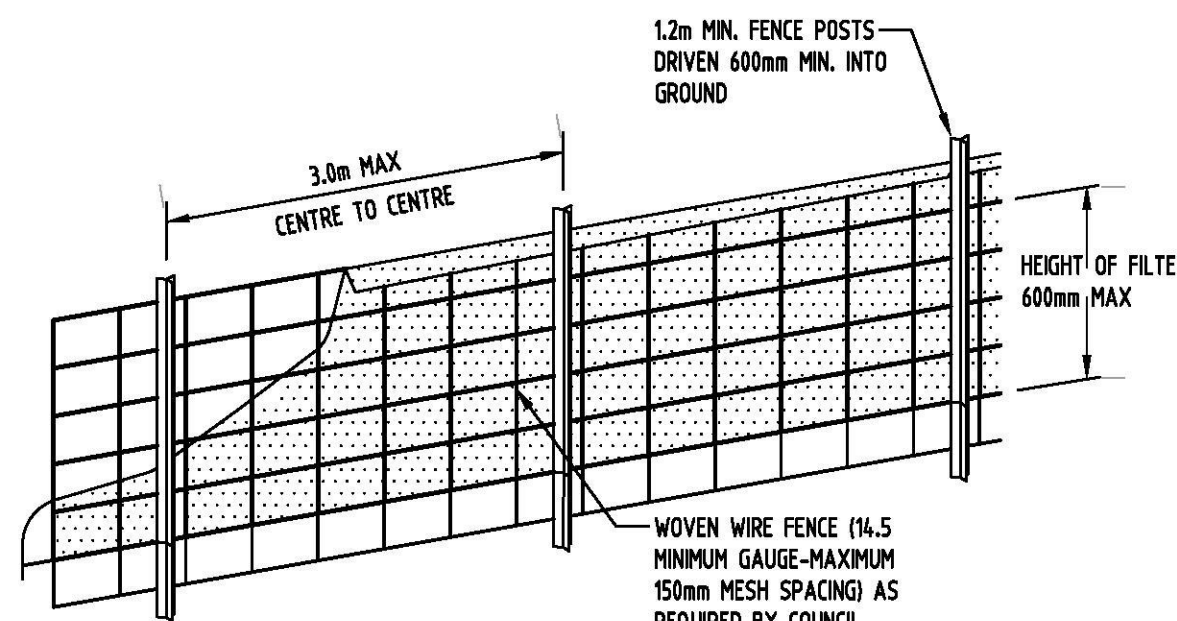
GENERAL NOTES

- THIS PLAN IS A CONCEPT PLAN ONLY FOR STORMWATER DISPOSAL & EROSION CONTROL. IT IS NOT SUITABLE FOR CONSTRUCTION. THIS PLAN SHOULD BE ADAPTED BY THE BUILDER DURING DEMOLITION, EXCAVATION & CONSTRUCTION PHASES TO ENSURE ADEQUATE PERFORMANCE.
- ALL DRAINAGE LAYOUT & DETAILS ARE DIAGRAMMATIC & INDICATIVE ONLY. ACTUAL LOCATION, SIZES, LEVELS & GRADES MAY ALTER WHEN DETAIL DESIGN WORKS ARE DOCUMENTED.

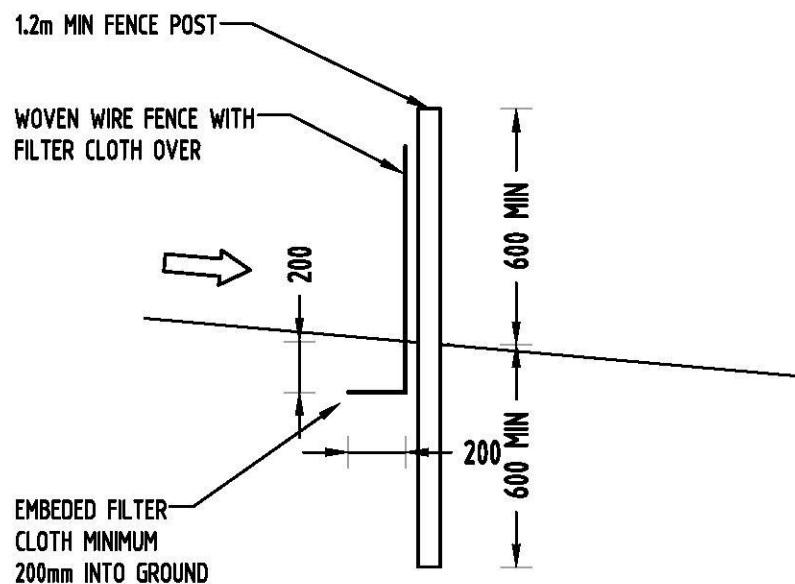
CLAY SOILS

A SYSTEM SHALL BE INSTALLED TO EITHER:

- TRANSPORT STORMWATER RUNOFF WITH SUSPENDED SOLIDS FROM SITE VIA PUMP TRUCKS.
- TREAT THE STORMWATER RUNOFF WITH SUSPENDED SOLIDS SO THE DISCHARGE WATER QUALITY TO COUNCIL STORMWATER DRAINAGE SYSTEM HAS A MAXIMUM CONCENTRATION OF SUSPENDED SOLIDS THAT DOES NOT EXCEED 50 MILLIGRAMS PER LITRE IN ACCORDANCE WITH THE PROTECTION OF THE ENVIRONMENT OPERATION ACT (POEO 1997) AND SHALL BE APPROVED BY LOCAL COUNCIL.

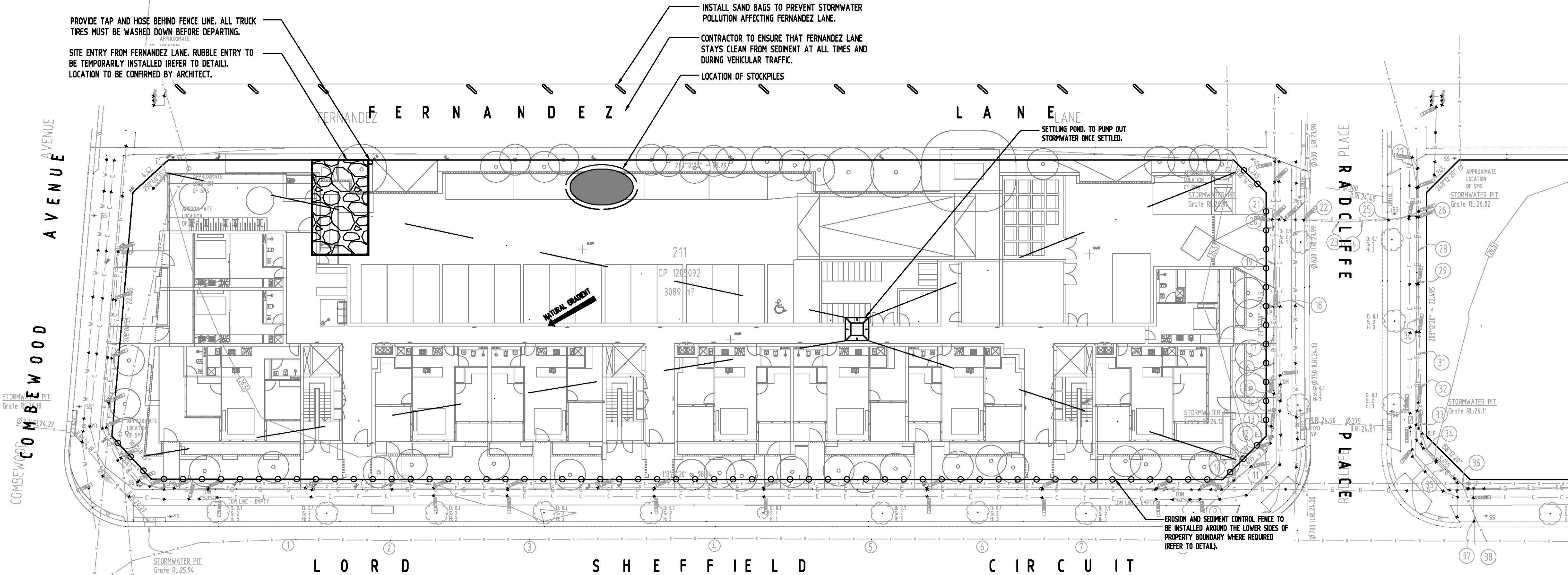


DIAGRAMMATIC VIEW



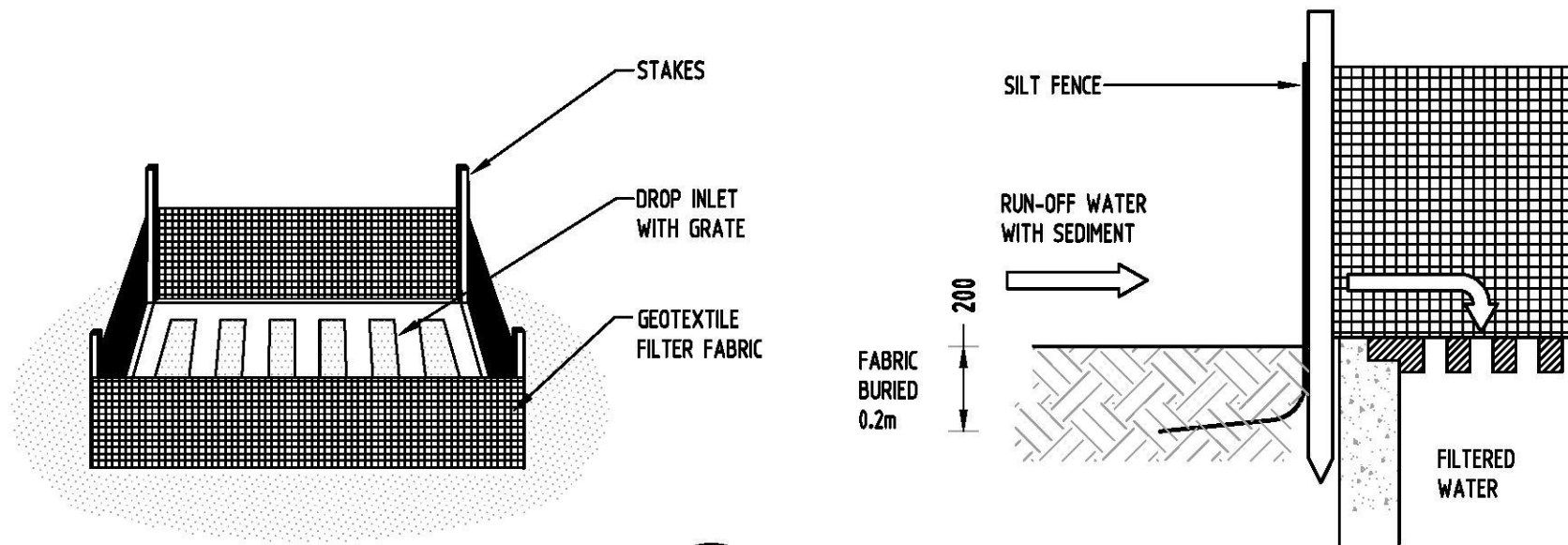
TYPICAL SECTION

DETAIL 4 SEDIMENT FENCE NOT TO SCALE

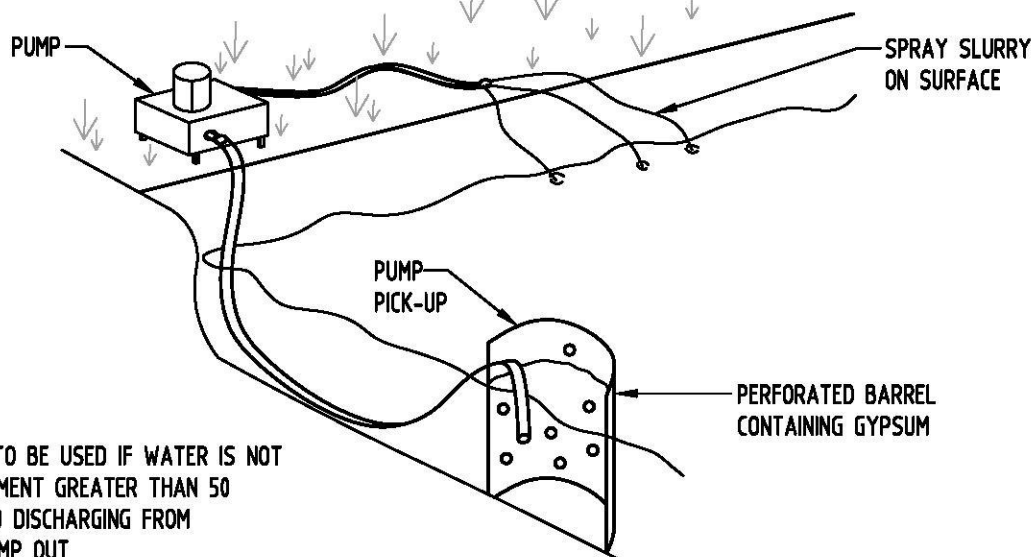


EROSION AND SEDIMENT CONTROL PLAN

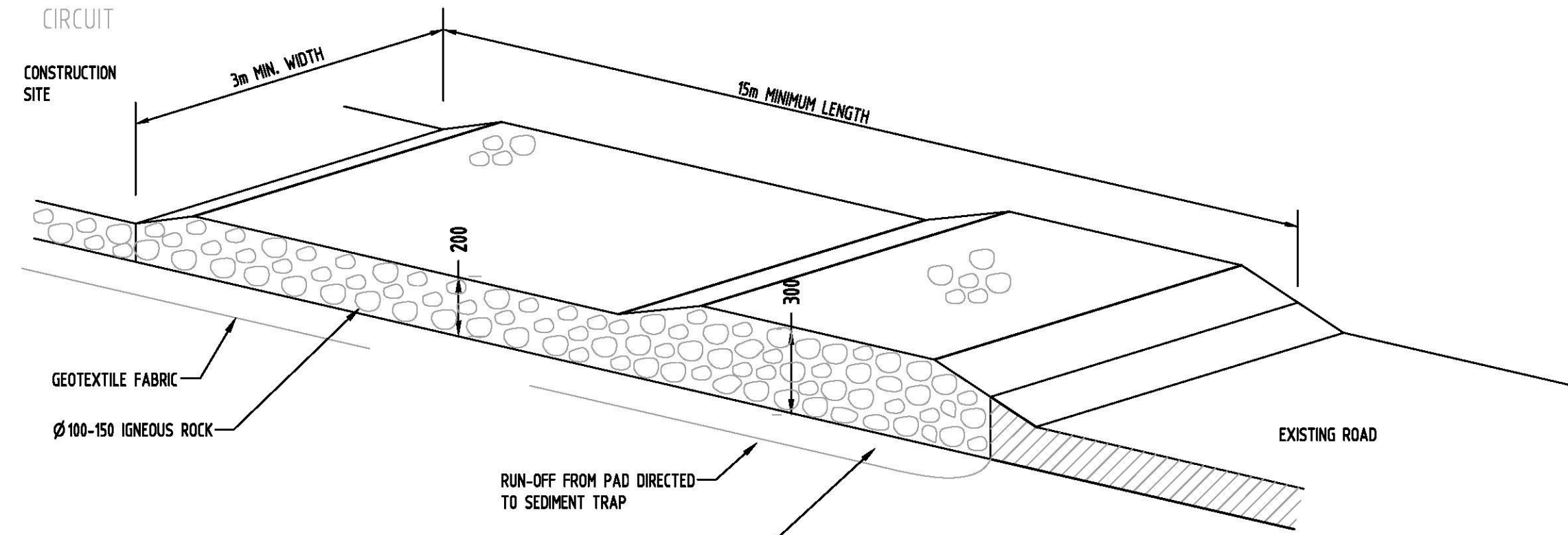
SCALE 1:250







DETAIL 1 SUMP SEDIMENT TRAP NOT TO SCALE



DETAIL 2 FLOCCULATION DETAIL NOT TO SCALE



DETAIL 5 TEMPORARY CONSTRUCTION EXIT NOT TO SCALE

Reference Coordination Drawing				 ENGINEERS AUSTRALIA Associated Professional Engineer MEMBER		QUALITY CONTROL		WARNING: THE DESIGNS, DRAWINGS, SPECIFICATIONS AND THE COPYRIGHT HEREIN REMAIN THE SOLE INTELLECTUAL PROPERTY OF SGC CONSULTANTS PTY LTD AND MUST NOT BE USED, COPIED, ALTERED OR REPRODUCED WHOLLY OR IN PART IN ANY FORM WITHOUT THE WRITTEN CONSENT OF SGC CONSULTANTS PTY LTD		Scales		CLIENT		ARCHITECT		 Suite 5.03, Level 5, 156 PACIFIC HIGHWAY ST. LEONARDS, NSW 2065 T: +61 2 8883 4239 Email: office@sgce.com.au Web: www.sgce.com.au		PROJECT PROPOSED RESIDENTIAL DEVELOPMENT LOT 211 LORD SHEFFIELD CIRCUIT, PENRITH		Drawing Status FOR APPROVAL NOT TO BE USED FOR CONSTRUCTION PURPOSES	
Discipline	Drawing Title and Number	Date	Rev.			DRAWN	AA	DATE	04.04.19									Drawing Title EROSION AND SEDIMENT CONTROL PLAN AND DETAILS			
ARCH						CHECKED	SH	DATE	04.04.19	0m 1 2 3 4 5 SCALE 1:100 ON ORIGINAL SIZE											
ARCH						DESIGNED	AA	DATE	04.04.19												
STRUCT						VERIFIED	SH	DATE	04.04.19												
MECH						APPROVED	SH	DATE	04.04.19												
ELEC																					
HYD																					
FIRE																					
LANDS																					
CIVIL																					
SURVEY																					
A ISSUE FOR DA				AA 04.04.19 2																	
Issue				Last revision title																	
1-priminary				2-development application																	
4-tender				3-construction certificate																	
				5-construction																	
				6-other																	