



# RESIDENTIAL DEVELOPMENT 36-38 RODLEY AVENUE, PENRITH STORMWATER CONCEPT DESIGN



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	A
4	SW202	STORMWATER CONCEPT DESIGN - ROOF PLAN	A
5	SW300	STORMWATER CONCEPT DESIGN - DETAILS SHEET	A
6	SW400	EROSION AND SEDIMENT CONTROL - PLAN AND DETAILS	A
7	SW500	STORMWATER CONCEPT DESIGN - MUSIC CATCHMENT PLAN	A

LOCALITY PLAN  
NOT TO SCALE  
COPYRIGHT OF SIX MAPS



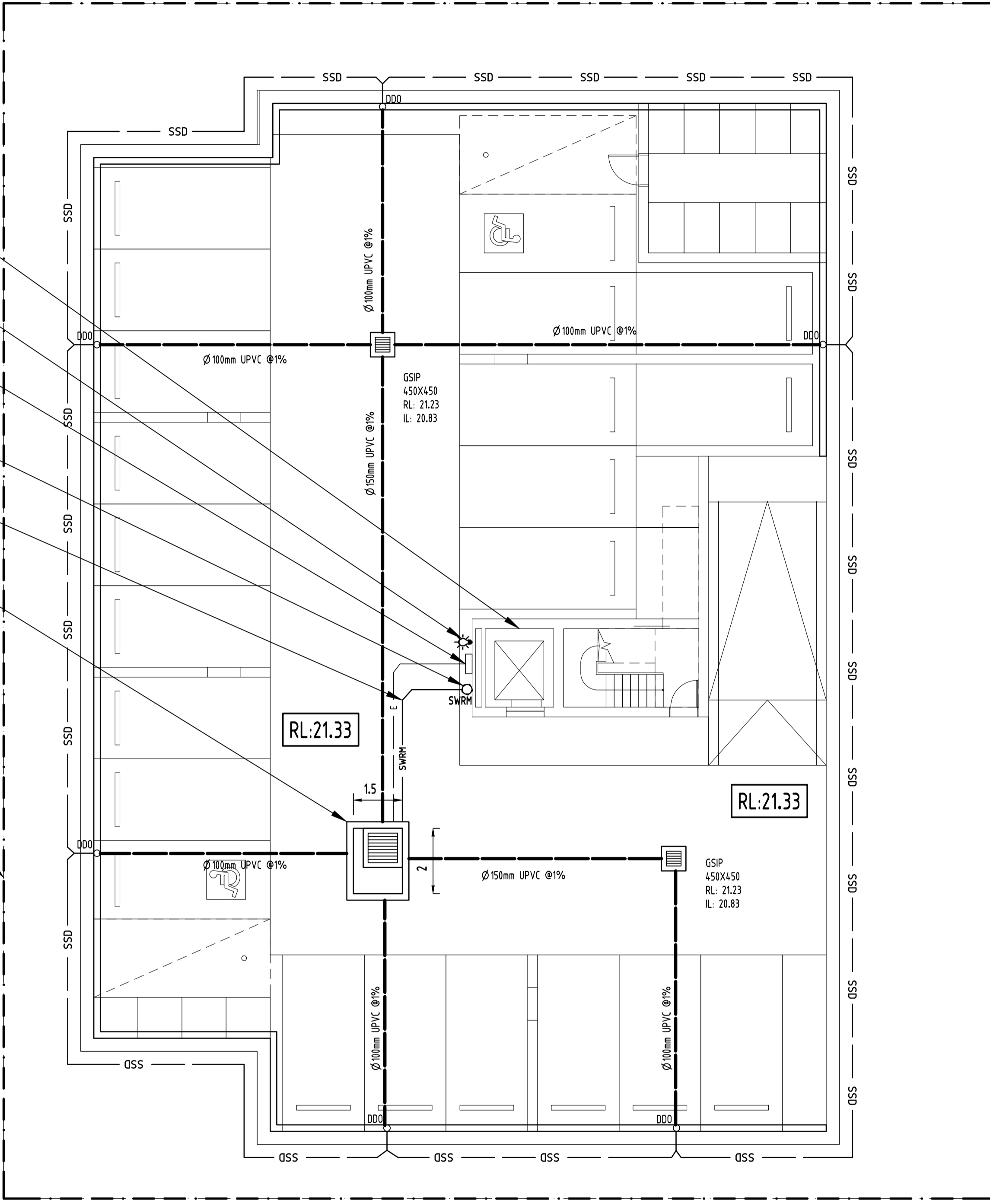
**PREPARED BY:**  
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St. Leonards, NSW 2065  
T: +61 2 8883 4239  
Email: office@sgce.com.au  
Web: www.sgce.com.au



**ARCHITECT:**

**CLIENT:**  
  
INGLOW INVESTMENT  
TWO PTY LTD

- LIFT TO BE TANKED BY OTHERS
- INSTALL WARNING FLASH LIGHT TO PROVIDE INDICATION OF PUMP FAILURE.
- PUMPOUT PIT CONTROL BOX TO MANUFACTURERS SPECIFICATIONS. LOCATIONS TO BE CONFIRMED WITH ARCHITECT.
- STORMWATER RISING MAIN
- Ø80 mm CLASS 12 UPVC
- SUBSOIL PUMP OUT PIT COMPLETE WITH 2x SUBMERSIBLE PUMPS WITH DUTY OF 10L/s AT 10.0m HEAD  
VOLUME REQUIRED: 3m<sup>3</sup>  
VOLUME PROVIDED: 3.6m<sup>3</sup>  
INTERNAL AREA: 3m<sup>2</sup>  
HEIGHT: 1.2m  
RL: 21.23  
TWL: 20.93  
IL: 19.73
- OUTLINE OF BOUNDARY



**SUBSOIL DESIGN CALCS:**  
 AS3500 10yr 2hr ARI STORM= 31.10 mm/hr  
 ARIx2 = 62.20mm  
 AREA OF DRIVEWAY RAMP UNCOVERED = 128m<sup>2</sup>  
 VOL. OF RUNOFF (Vr):  
 = 128x(62.20/1000)  
 = 7.96m<sup>3</sup>  
 VOL.PUMPED (Vp) IN 30min@10L/S = 18m<sup>3</sup>  
 WET WELL STORAGE  
 MAXIMUM OF, AS PER AS3500:  
 (Vr - Vp) OR 3m<sup>3</sup> = 3m<sup>3</sup>  
 MANUFACTURER (ALL-PUMPS) RECOMMENDS MAX. OPERATION TIMES OF 10/HR

**NOTES**  
 BASEMENT DRAINAGE DESIGN SUBJECT TO GEOTECHNICAL INVESTIGATION AND STRUCTURAL DESIGN OF WALLS AND SLABS IN CC STAGE.  
 ALL SUBSOIL DRAINAGE (SSD) TO BE 100AG AND ALL DISH DRAIN OUTLETS (DDO) TO BE Ø100mm U.N.O

Issue	Last revision title	LN	Date	Status
A	FINAL ISSUE	LN	24.08.2018	2

**Issuer internal sequence and revision history**

1-preliminary	2-development application	3-construction certificate
4-tender	5-construction	6-other

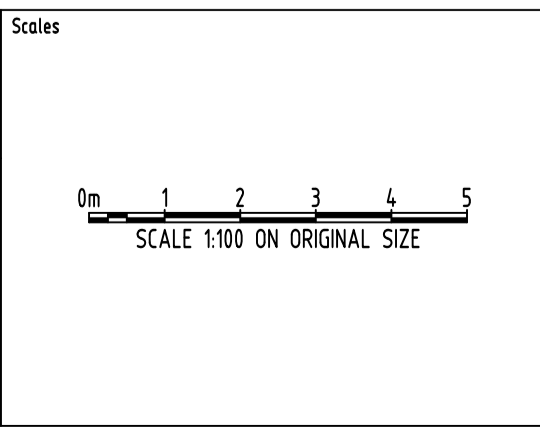
Discipline	Drawing Title and Number	Date	Rev.
ARCH			
STRUC			
MECH			
ELEC			
HYD			
FRG			
LANDS			
CIVIL			
SURVEY			

**ENGINEERS AUSTRALIA**  
 Chartered Professional Engineer  
 MEMBER

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QUALITY CONTROL	DATE
DRAWN	
CHECKED	
DESIGNED	
VERIFIED	
APPROVED	

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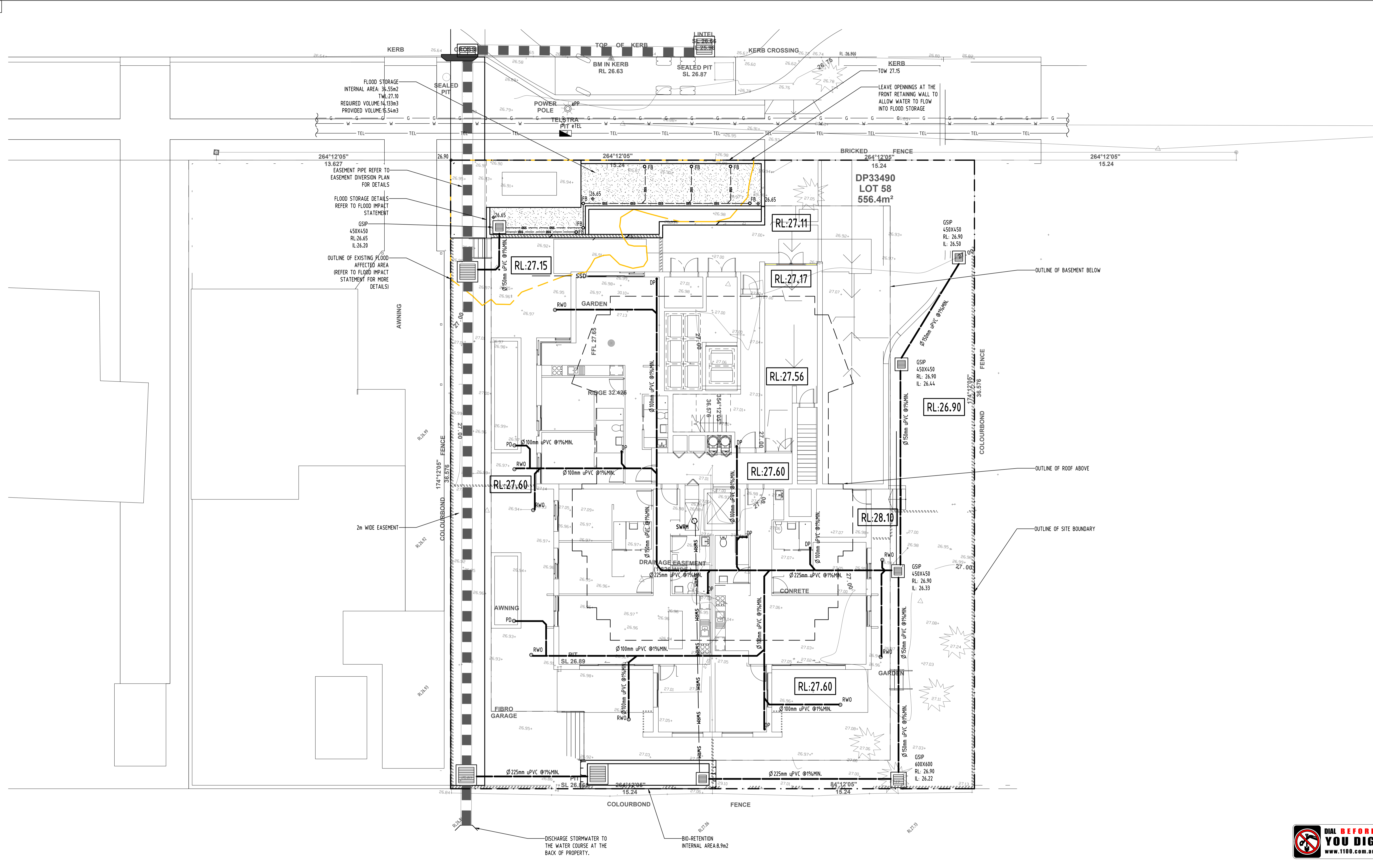
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 156 PACIFIC HIGHWAY,  
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 T: +61 2 8883 4239  
 Email: office@sgce.com.au  
 Web: www.sgce.com.au

PROJECT  
**PROPOSED RESIDENTIAL DEVELOPMENT**  
 36-38 RODLEY AVENUE  
 PENRITH

Drawing Status	FOR APPROVAL
Drawing Title	NOT TO BE USED FOR CONSTRUCTION PURPOSES <b>STORMWATER CONCEPT DESIGN BASEMENT PLAN</b>
Project No	20180061
Drawing No	SW200
Revision No	A







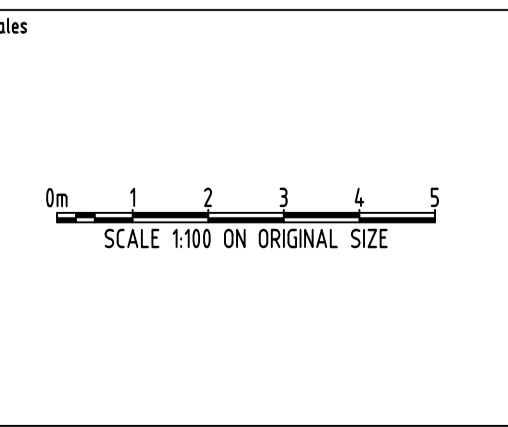
Reference Coordination Drawing			
Discipline	Drawing Title and Number	Date	Rev.
ARCH			
ARCH			
STRUCT			
MECH			
ELEC			
HYD	LN 24.08.2018	2	
FRG			
LANDS			
CIVIL			
SURVEY			

Issue internal sequence and revision history			
Issue	Last revision title	by	Date
A	FINAL ISSUE	LN	24.08.2018

QUALITY CONTROL	
DRAWN	DATE
CHECKED	DATE
DESIGNED	DATE
VERIFIED	DATE
APPROVED	DATE

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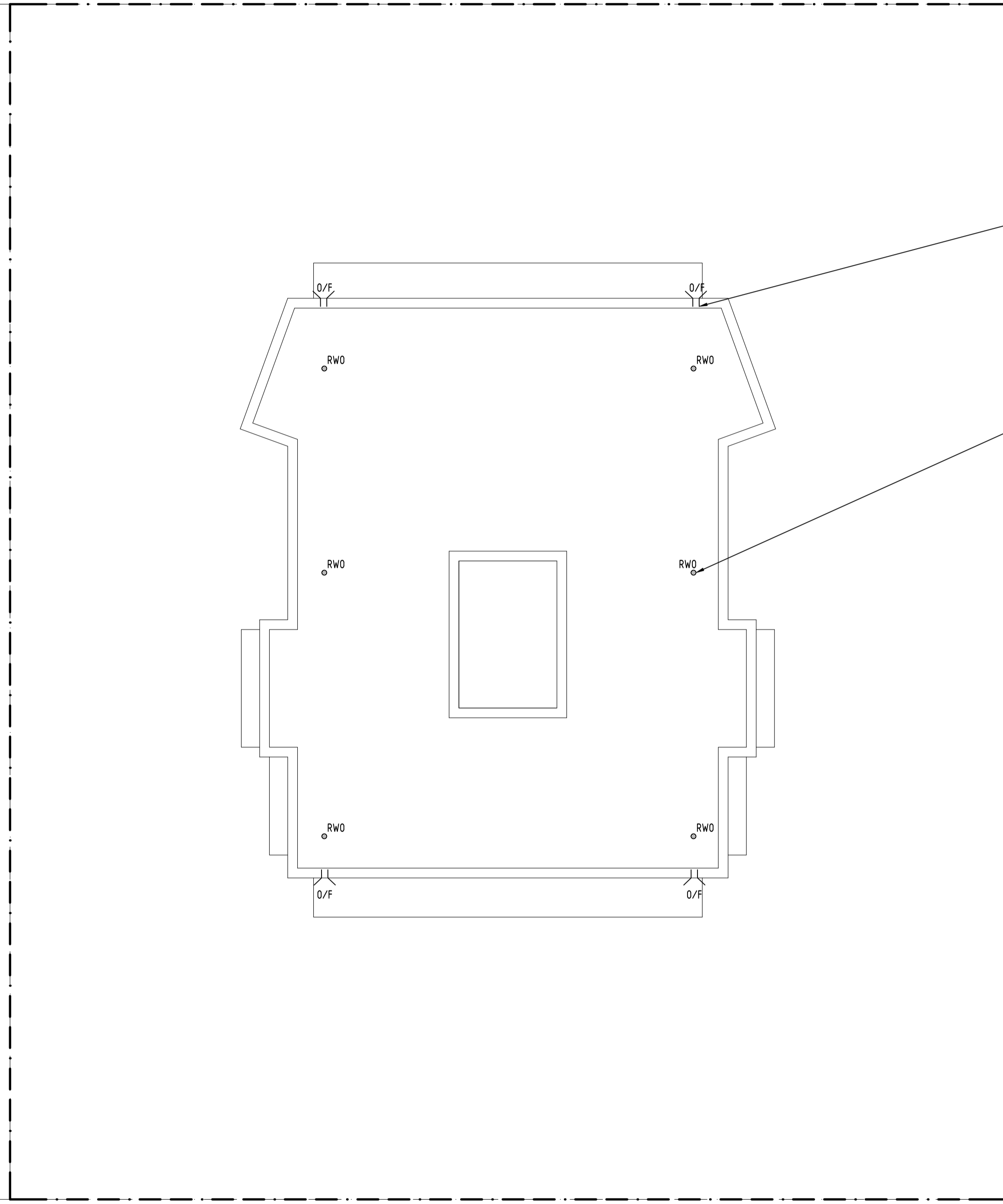
ARCHITECT  
**MORSON GROUP**

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**PROPOSED RESIDENTIAL DEVELOPMENT**  
36-38 RODLEY AVENUE  
PENRITH

Drawing Status		
FOR APPROVAL		
NOT TO BE USED FOR CONSTRUCTION PURPOSES		
Drawing Title		
STORMWATER CONCEPT DESIGN GROUND FLOOR PLAN		
Project No	Drawing No	Revision No
20180127	SW201	A

# RODLEY AVENUE



OVERFLOW (TYP.)

RAIN WATER OUTLET COLLECTING STORMWATER RUNOFF FROM ROOF AREAS. (TYP.)

OUTLINE OF SITE BOUNDARY

**NOTES:**  
RWOs ARE INDICATIVE ONLY AND SUBJECT TO CHANGE IN THE LATER STAGES.



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

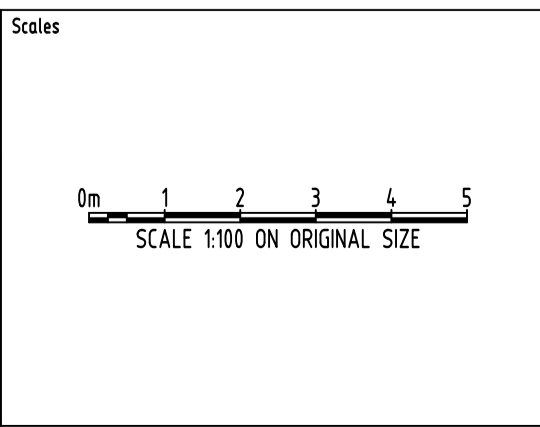
Issuer internal sequence and revision history			
Issue	Last revision title	by	Date
A	FINAL ISSUE	LN	24.08.2018

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QUALITY CONTROL	
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VERIFIED	DATE
APPROVED	DATE

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REGISTERED PLANNING # 106  
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Web: www.sgce.com.au

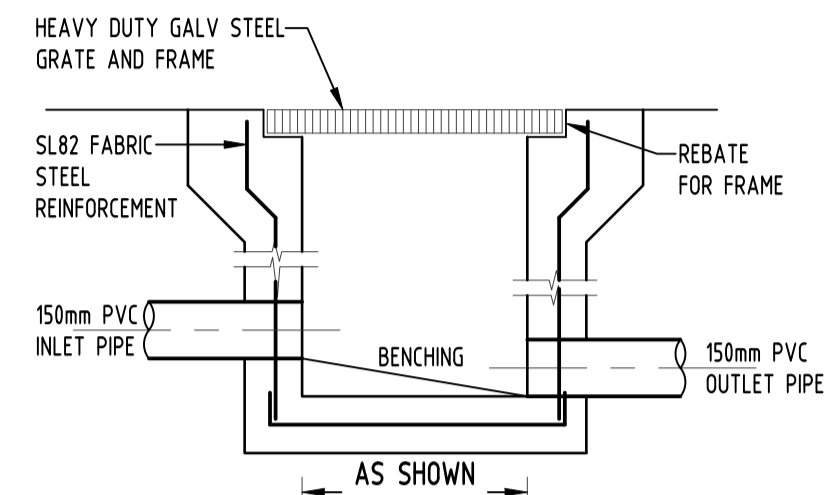
A.B.N. 21 118 222 530

PROJECT  
**PROPOSED RESIDENTIAL DEVELOPMENT**  
36-38 RODLEY AVENUE  
PENRITH

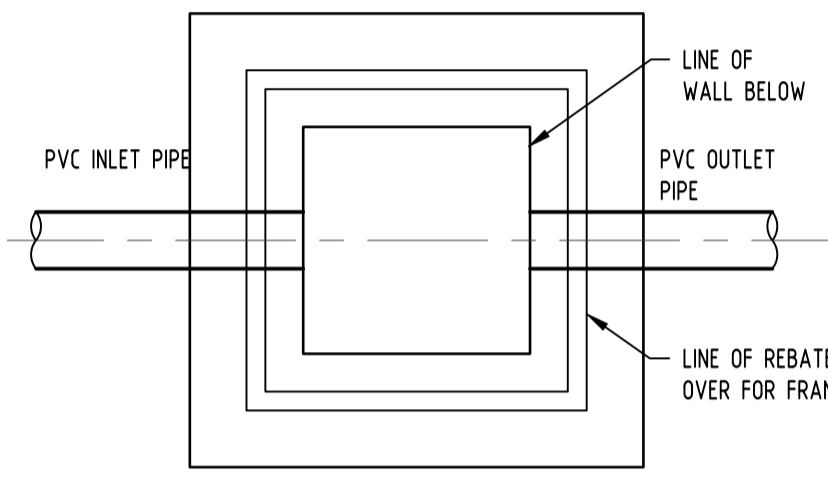
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Drawing Status		
FOR APPROVAL		
NOT TO BE USED FOR CONSTRUCTION PURPOSES		
Drawing Title		
STORMWATER CONCEPT DESIGN ROOF PLAN		
Project No	Drawing No	Revision No
20180061	SW202	A

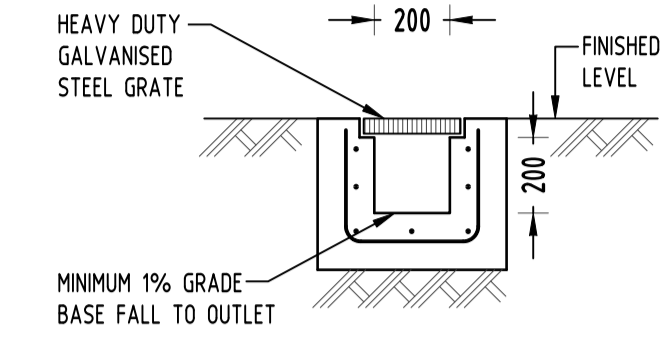




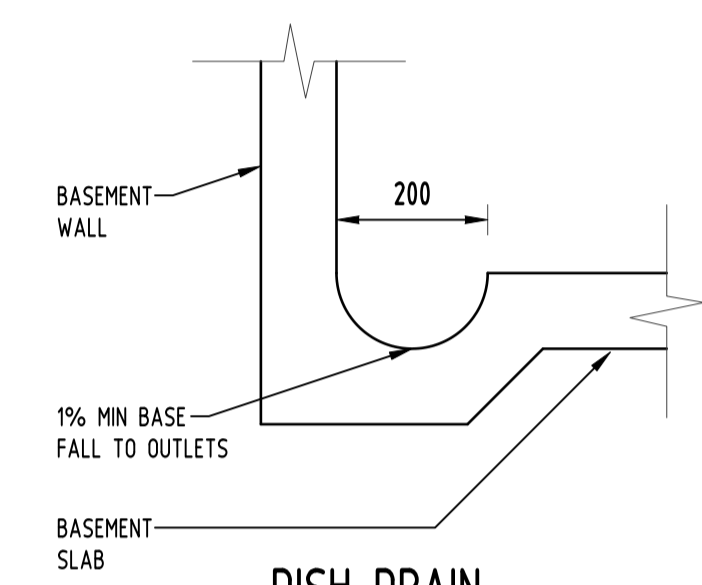
AS SHOWN ON PLAN SECTION



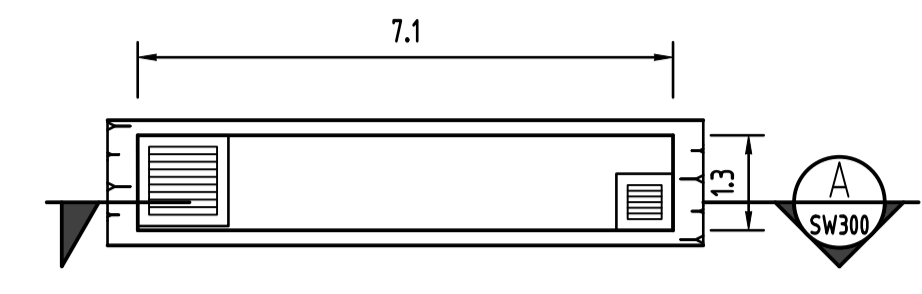
PLAN WITHOUT GRATE  
STORMWATER PIT  
NOT TO SCALE



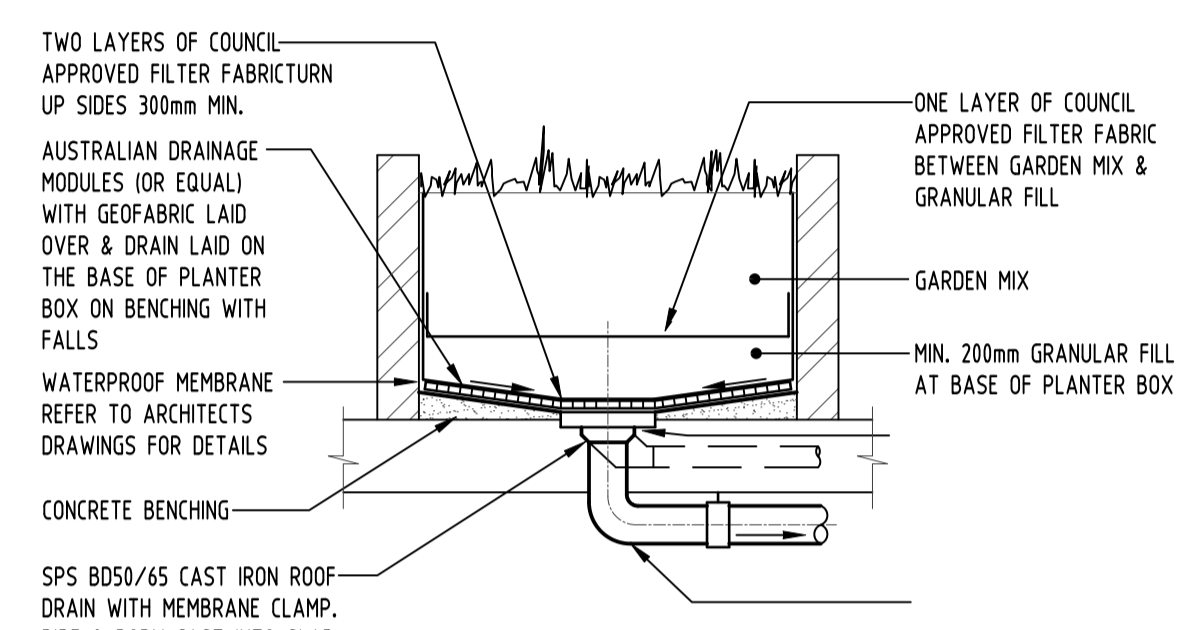
GRADED TRENCH DRAIN  
NOT TO SCALE



DISH DRAIN  
NOT TO SCALE

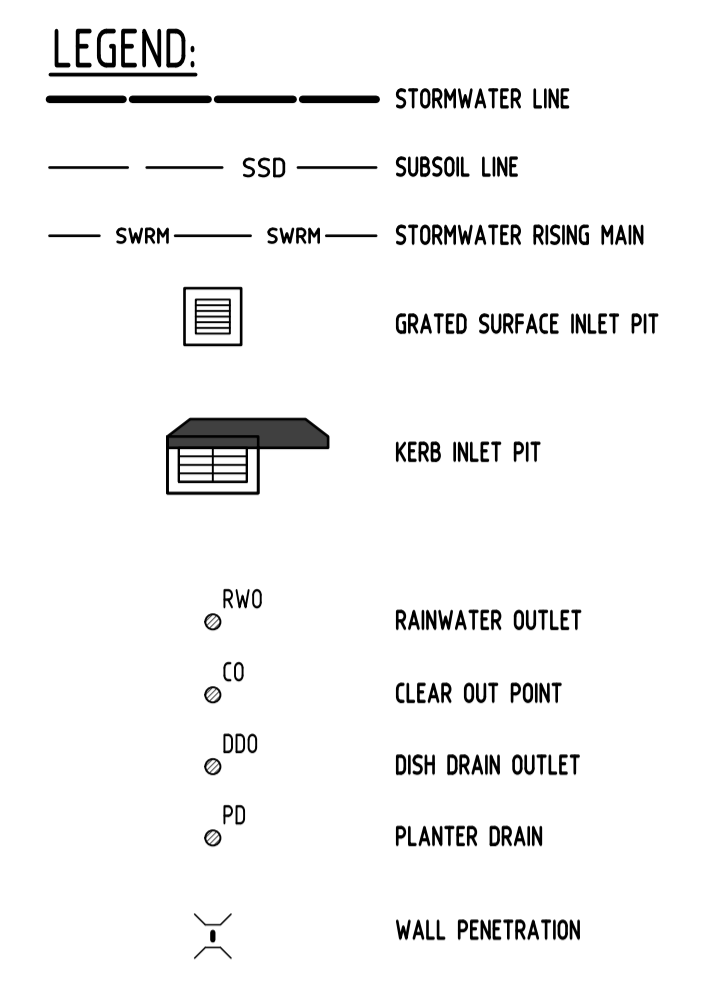
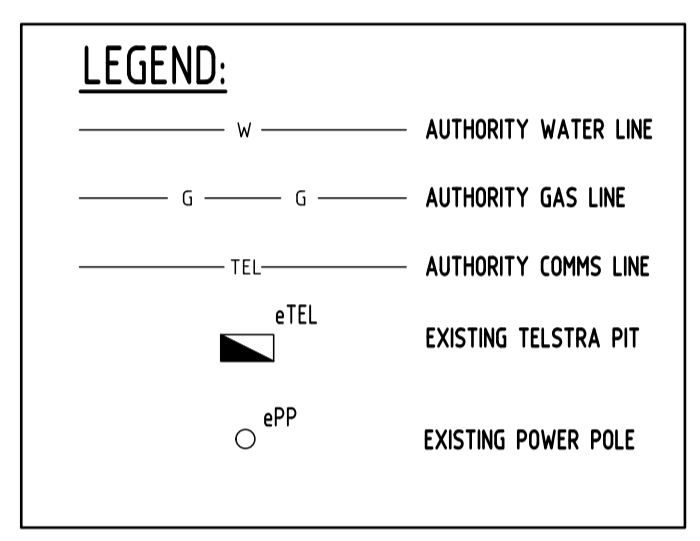


BIO-RETENTION PLAN  
NOT TO SCALE



PLANTER DRAIN DETAIL  
NOT TO SCALE

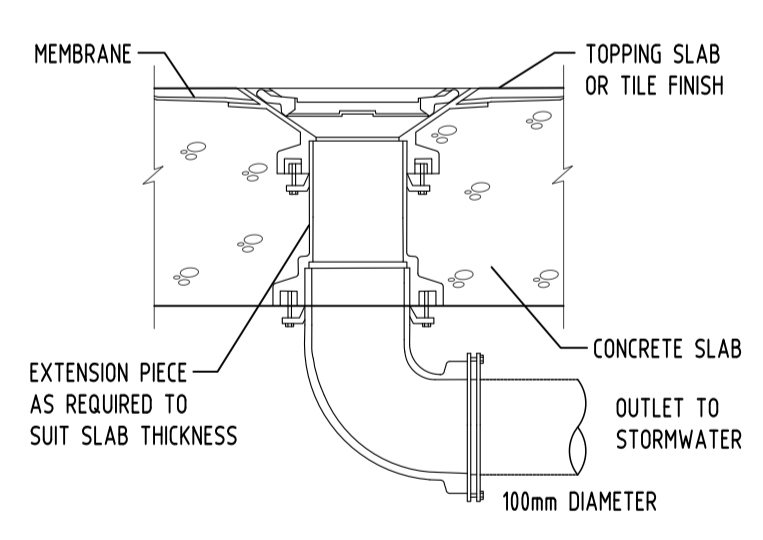
**DESIGN NOTES:**  
THE SITE IS LOCATED IN PENRITH COUNCIL.  
SITE AREA = 1115m<sup>2</sup>  
OSD IS NOT REQUIRED BECAUSE THE SITE IS NOT IN A OSD MANDATORY AREA.  
MUSIC MODELLING IS REQUIRED BY COUNCIL. REQUIRED TARGETS ARE AS FOLLOWING:  
TSS: 85%  
TP: 60%  
TN: 45%  
THE SITE IS FLOOD AFFECTED. A FLOOD STORAGE AREA AND A NEW EASEMENT ARE PROPOSED.



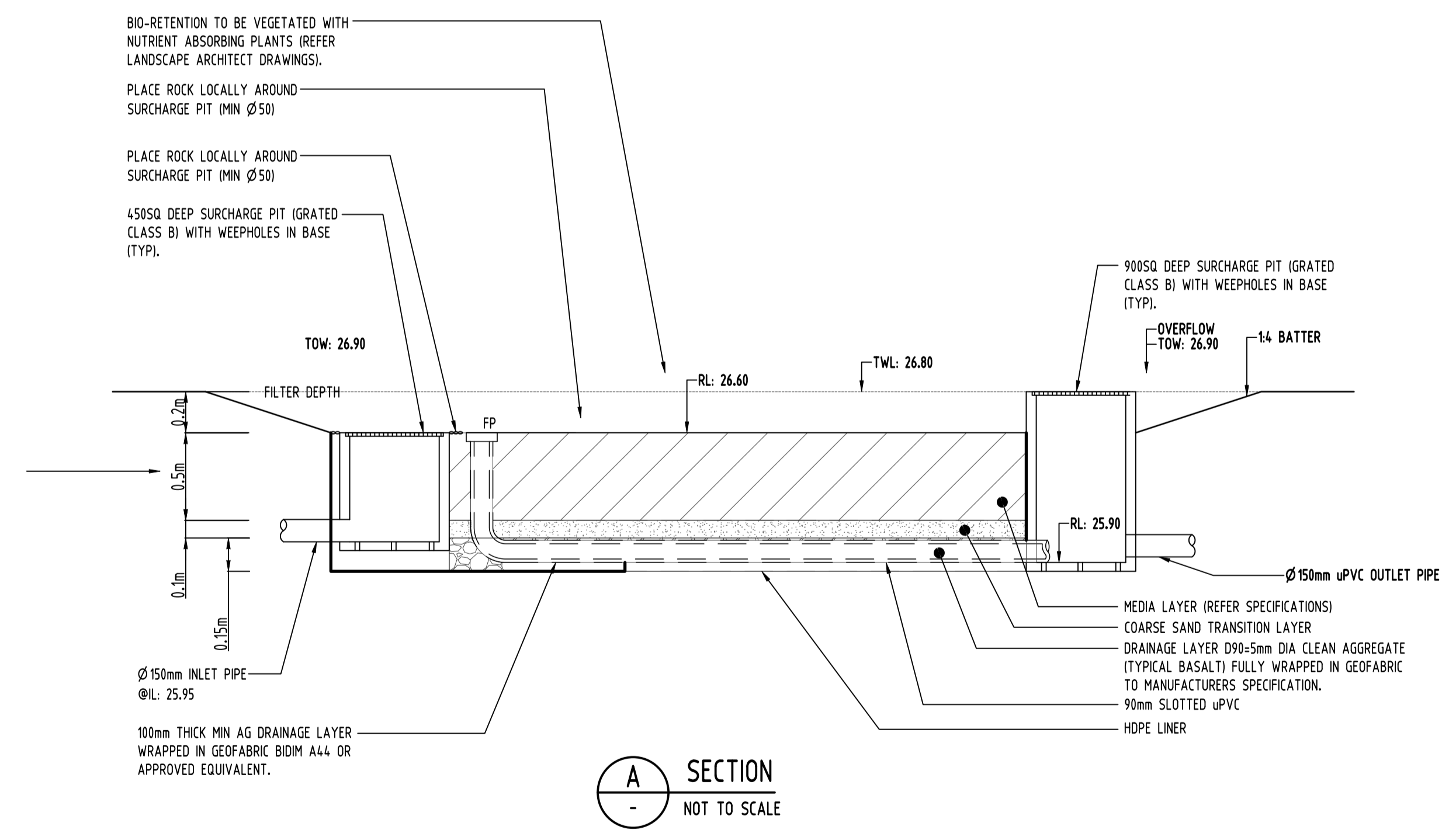
SERVICES SHOWN ON PLAN ARE INDICATIVE, EXACT DEPTH AND LOCATION TO BE CONFIRMED ONSITE. CONTRACTOR TO CARRY OUT DIAL BEFORE YOU DIG APPLICATION AND ENGAGE A REGISTERED SURVEYOR TO PEG OUT ALL EXISTING SERVICES PRIOR TO ANY WORK COMMENCING ONSITE.

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

**NOTES:**  
FINAL SUBSOIL DESIGN TO BE CARRIED OUT ONCE GEOTECHNICAL REPORT AND WATER TABLE LEVEL IS CONFIRMED.



RAINWATER OUTLET  
NOT TO SCALE



A SECTION  
NOT TO SCALE

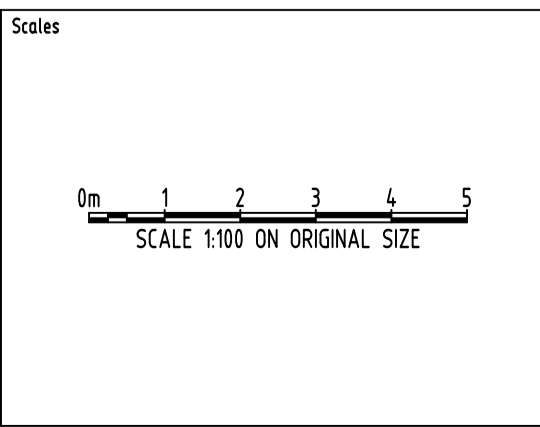
Reference Coordination Drawing			
Discipline	Drawing Title and Number	Date	Rev.
ARCH			
MECH			
ELEC			
HYD			
FRG			
LANDS			
CIVIL			
SURVEY			

Issuer internal sequence and revision history			
Issue	Last revision title	by	Date
A	FINAL ISSUE	LN	24.08.2018

QUALITY CONTROL	
DRAWN	DATE
CHECKED	DATE
DESIGNED	DATE
VERIFIED	DATE
APPROVED	DATE

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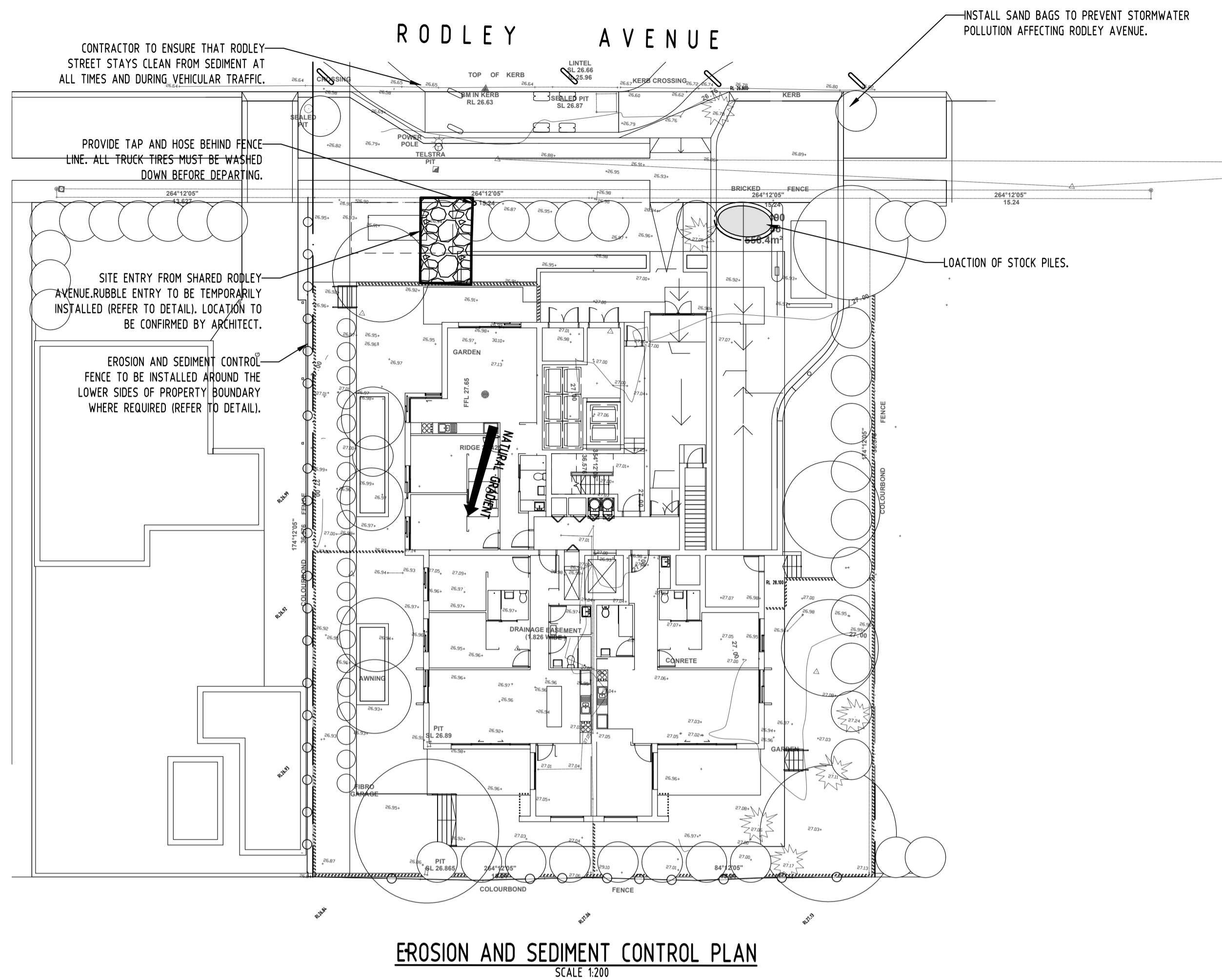
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PROJECT  
PROPOSED RESIDENTIAL DEVELOPMENT  
36-38 RODLEY AVENUE  
PENRITH

Drawing Status	FOR APPROVAL
Drawing Title	NOT TO BE USED FOR CONSTRUCTION PURPOSES STORMWATER CONCEPT DESIGN DETAILS SHEET
Project No	20180061
Drawing No	SW300
Revision No	A







### 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 (E.G. 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

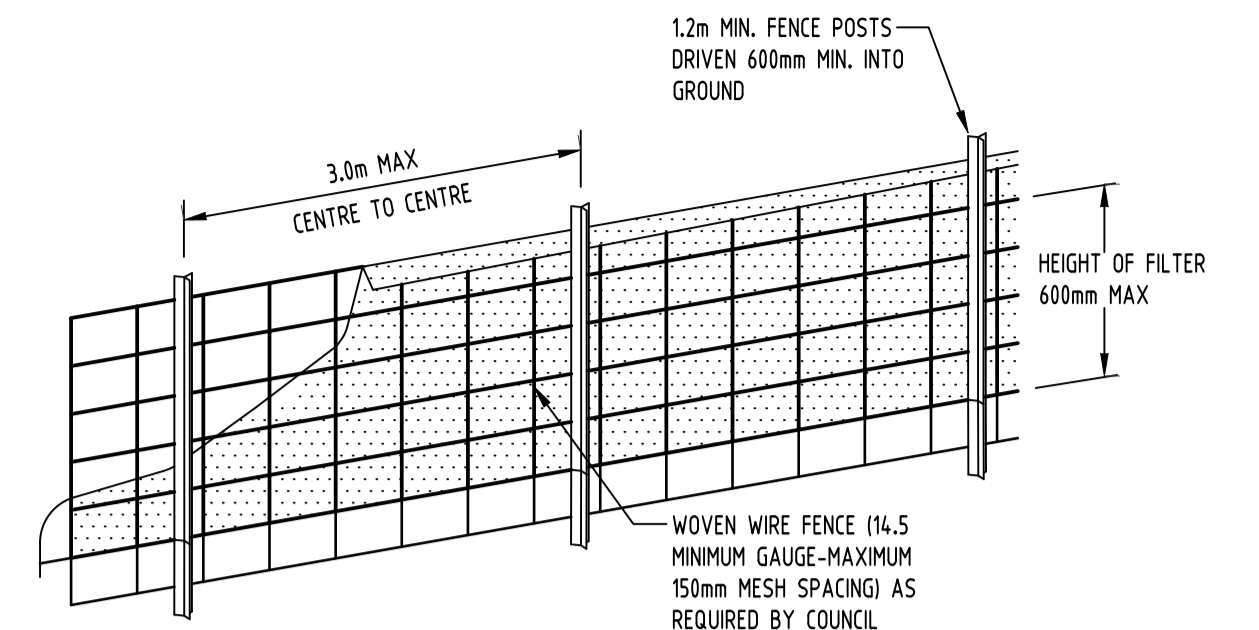
1. THIS PLAN IS A CONCEPT PLAN ONLY FOR STORMWATER DISPOSAL & EROSION CONTROL. IT IS NOT SUITABLE FOR CONSTRUCTION. THIS PLAN SHOULD BE ADAPTED BY THE BUILDER DURING DEMOLITION, EXCAVATION & CONSTRUCTION PHASES TO ENSURE ADEQUATE PERFORMANCE.

2. ALL DRAINAGE LAYOUT & DETAILS ARE DIAGRAMMATIC & INDICATIVE ONLY. ACTUAL LOCATION, SIZES, LEVELS & GRADES MAY ALTER WHEN DETAIL DESIGN WORKS ARE DOCUMENTED.

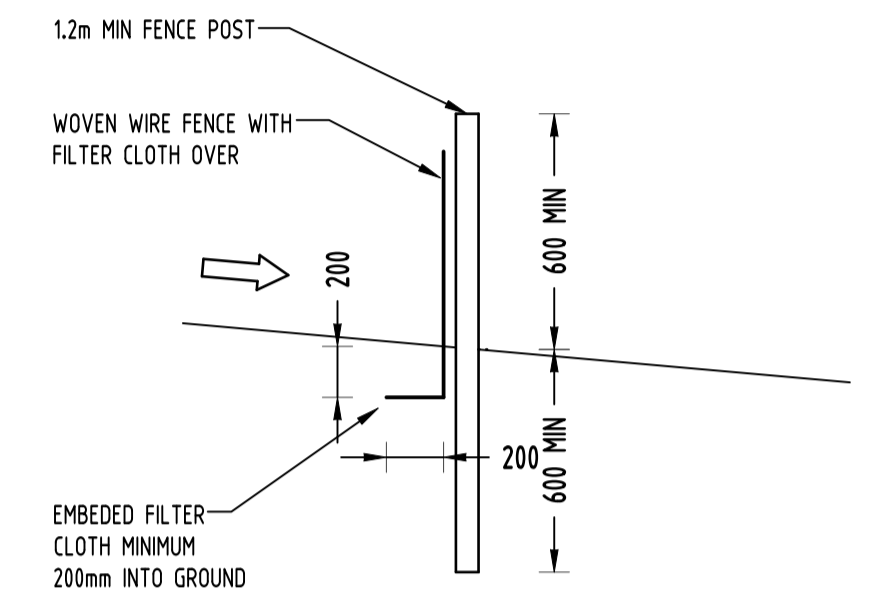
### CLAY SOILS

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.

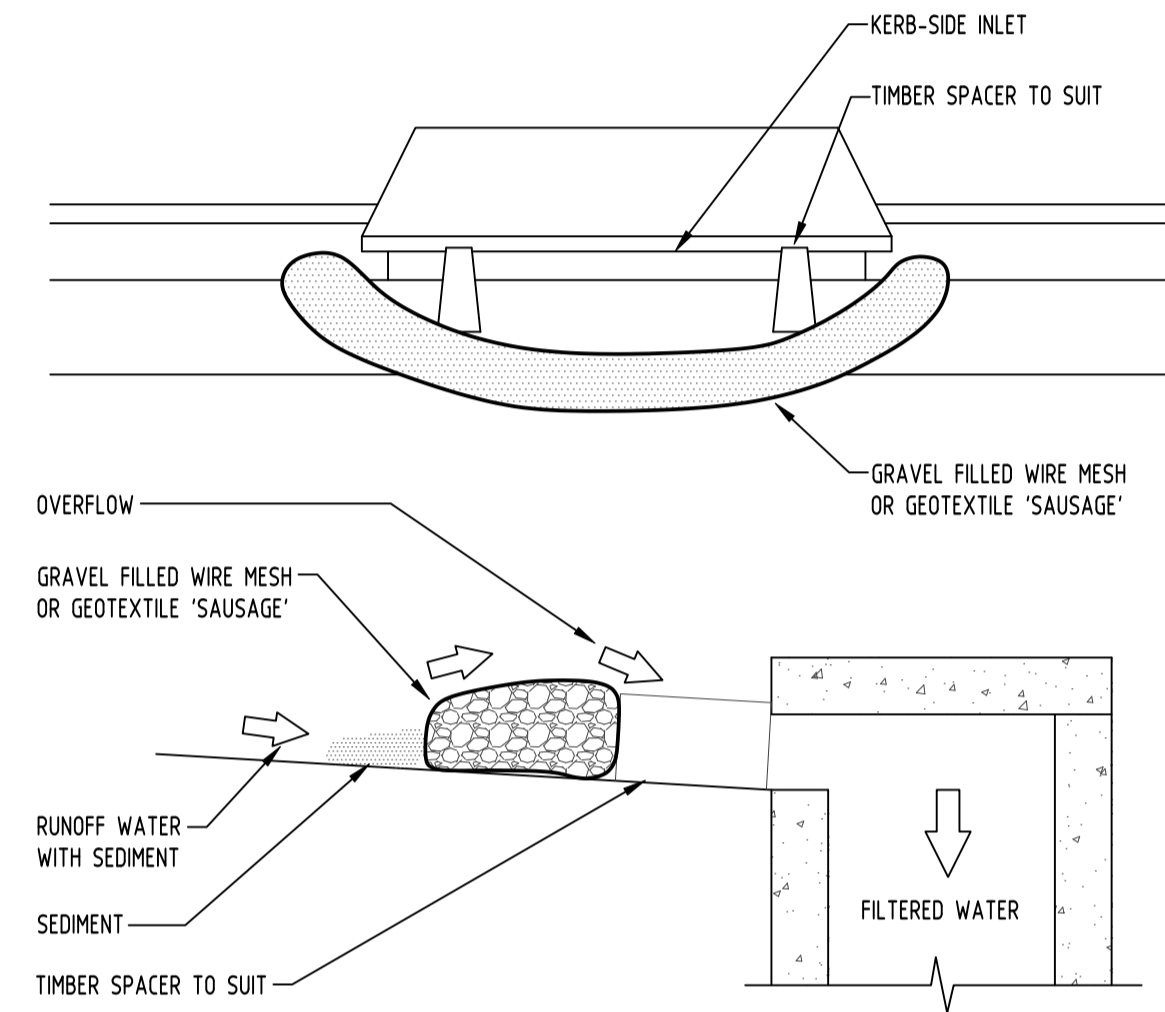


DIAGRAMMATIC VIEW



TYPICAL SECTION

### SEDIMENT FENCE NOT TO SCALE



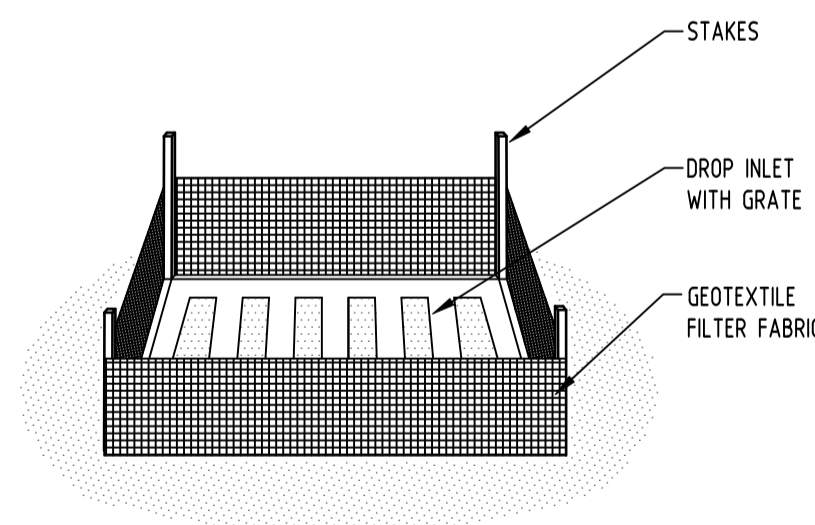
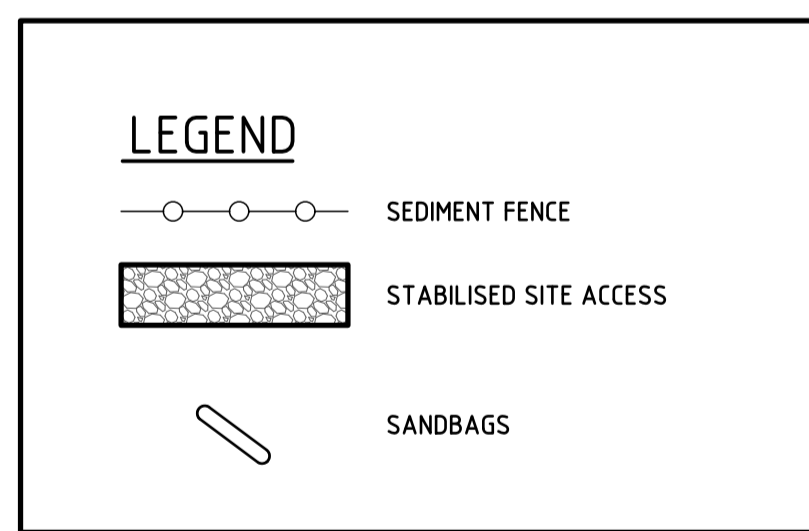
### CONSTRUCTION NOTES:

- 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

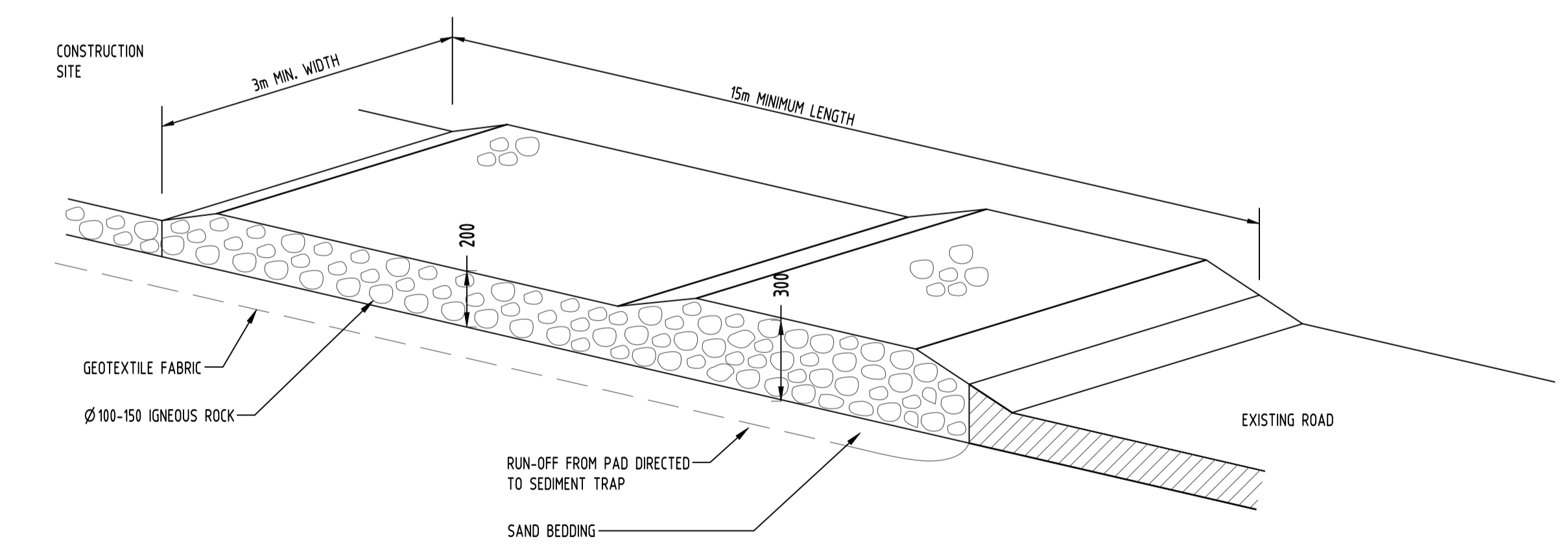
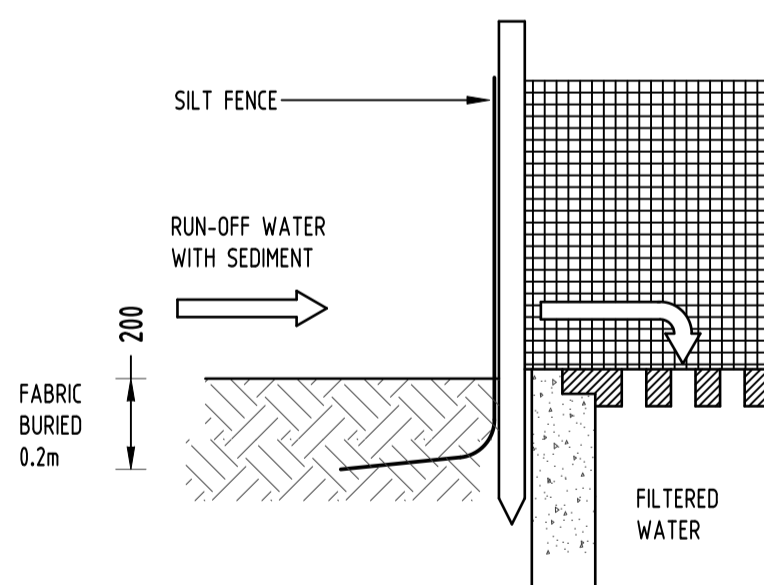
### GRAVEL INLET FILTER (SAUSAGE) NOT TO SCALE

### GEOTEXTILE INLET FILTER

GEOTEXTILE INLET FILTER IS PLACED IN EVERY PIT WITHIN THE SITE TO ENSURE THE RUNOFF WATER DURING CONSTRUCTION NOT ENTER THE PITS.



### GEOTEXTILE INLET FILTER NOT TO SCALE

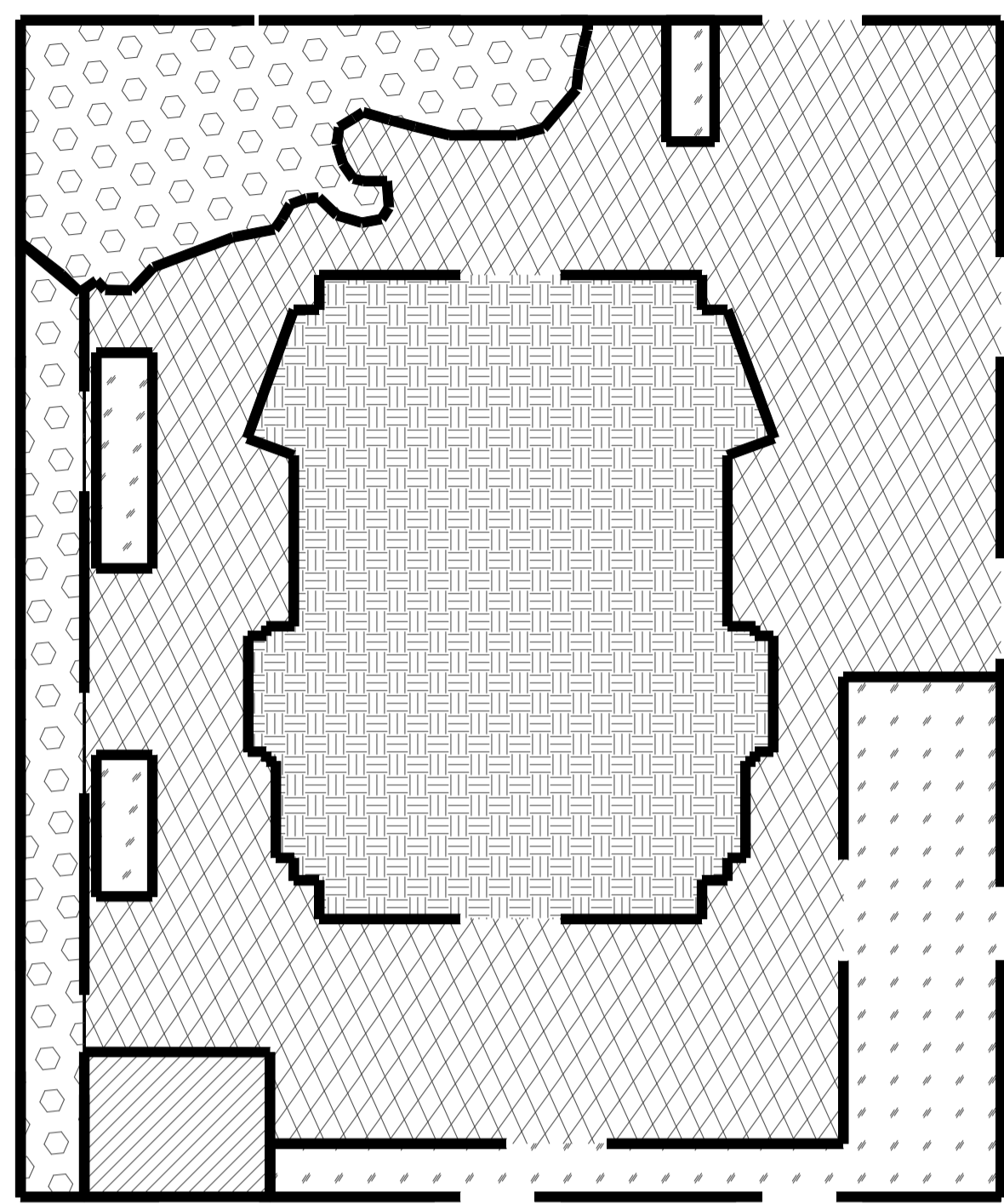


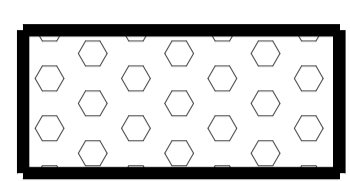
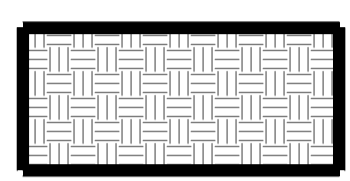
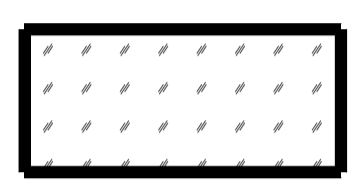
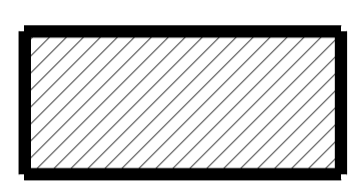
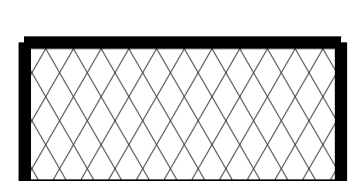
### TEMPORARY CONSTRUCTION EXIT RUBBLE ALTERNATIVE NOT TO SCALE



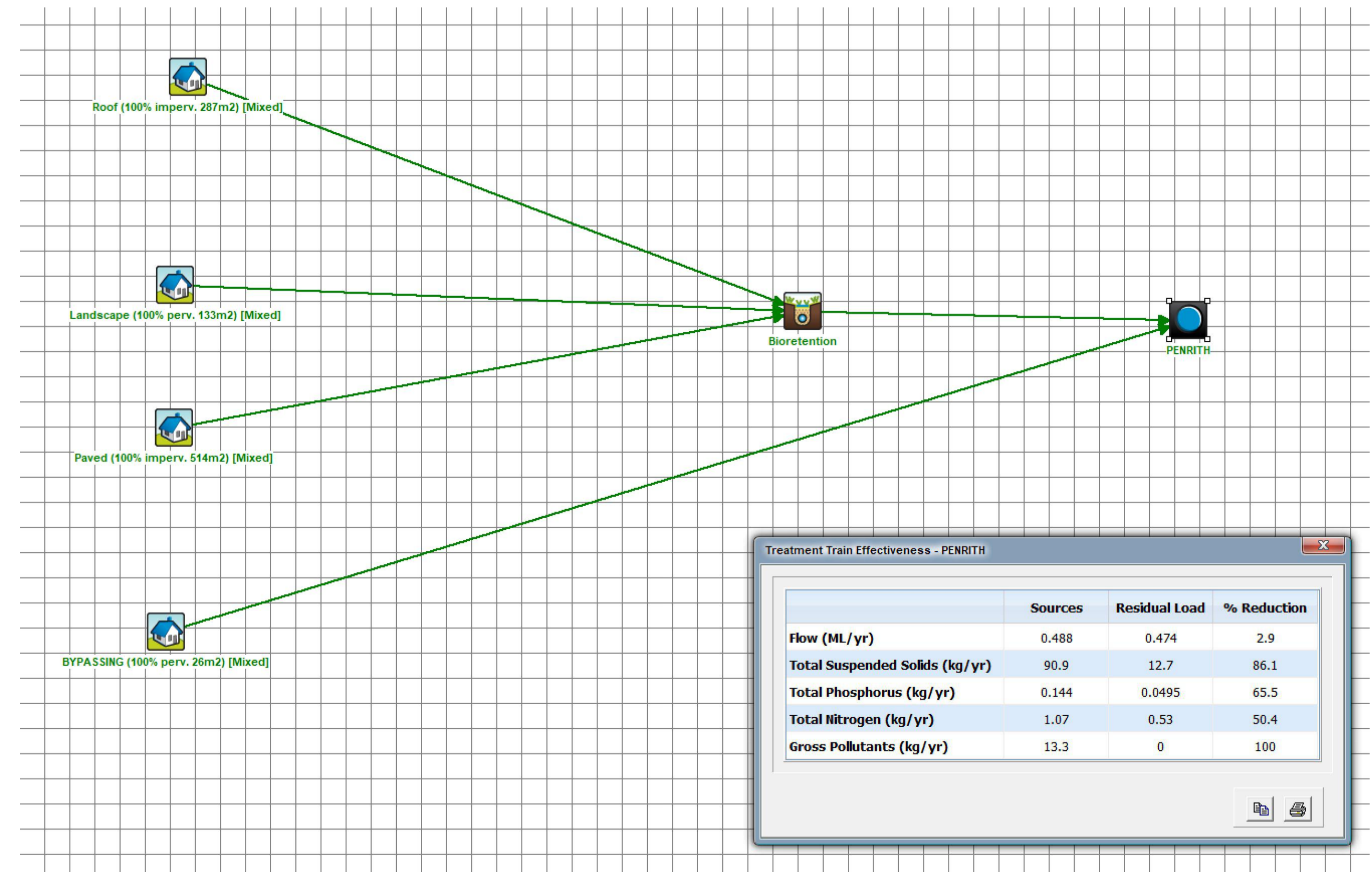
Reference Coordination Drawing				QUALITY CONTROL		Scales		CLIENT		ARCHITECT		PROJECT		Drawing Status			
Discipline	Drawing Title and Number	Date	Rev.	DRAWN	DATE	0m	1	INGLOW INVESTMENT TWO PTY LTD	MORSON GROUP	Suite 5.03, Level 5, 156 PACIFIC HIGHWAY, ST. LEONARDS, NSW 2065	PROJECT PROPOSED RESIDENTIAL DEVELOPMENT	Grid	Datum	Sheet	Scale (at original size)	FOR APPROVAL	
ARCH				CHECKED	DATE	1	2			T: +61 2 8883 4239	36-38 RODLEY AVENUE	-	A.H.D.	6 OF 7	AS SHOWN	NOT TO BE USED FOR CONSTRUCTION PURPOSES	
ARCH				DESIGNED	DATE	2	3			Email: office@sgce.com.au	PENRITH	Project No	Drawing No	Revision No			
STRUCT				VERIFIED	DATE	3	4			Web: www.sgce.com.au		20180061	SW400	A			
MECH				APPROVED	DATE	4	5										
ELEC																	
HYD																	
FRG																	
LANDS																	
CIVIL																	
SURVEY																	
<b>Issue internal sequence and revision history</b> 1-preliminary 2-development application 3-construction certificate 4-tender 5-construction 6-other				<b>ENGINEERS AUSTRALIA</b> Chartered Professional Engineer MEMBER		WARNING: THE DESIGN, DRAWINGS, SPECIFICATIONS AND THE COPYRIGHT HEREIN REMAIN THE SOLE INTELLECTUAL PROPERTY OF SGC CONSULTANTS PTY LTD AND MUST NOT BE COPIED, ALTERED OR REPRODUCED WHOLLY OR IN PART IN ANY FORM WITHOUT THE WRITTEN CONSENT OF SGC CONSULTANTS PTY LTD		CLIENT INGLOW INVESTMENT TWO PTY LTD		ARCHITECT MORSON GROUP		PROJECT PROPOSED RESIDENTIAL DEVELOPMENT		Drawing Status FOR APPROVAL			
<b>Issue Last revision title</b> LN 24.08.2018 2 Issue Last revision title by Date Status				DISCREPANCIES NOT SHOWN TO BE CHECKED ON SITE. DO NOT SCALE OF THIS DRAWING. POSITIONS OF AUTHORITIES MANS 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.		Scales SCALE 1:100 ON ORIGINAL SIZE		CLIENT INGLOW INVESTMENT TWO PTY LTD		ARCHITECT MORSON GROUP		PROJECT PROPOSED RESIDENTIAL DEVELOPMENT		Drawing Status NOT TO BE USED FOR CONSTRUCTION PURPOSES			
<b>FINAL ISSUE</b> LN 24.08.2018 2 Issue Last revision title by Date Status				DISCREPANCIES NOT SHOWN TO BE CHECKED ON SITE. DO NOT SCALE OF THIS DRAWING. POSITIONS OF AUTHORITIES MANS 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.		Scales SCALE 1:100 ON ORIGINAL SIZE		CLIENT INGLOW INVESTMENT TWO PTY LTD		ARCHITECT MORSON GROUP		PROJECT PROPOSED RESIDENTIAL DEVELOPMENT		Drawing Status NOT TO BE USED FOR CONSTRUCTION PURPOSES			





-  EXCLUDED AREA DUE TO FLOOD AND EASEMENT (155m<sup>2</sup>)
-  ROOF AREA DRAINS TO BIO-RETENTION (100% IMPERVIOUS, 287m<sup>2</sup>)
-  LANDSCAPE AREA TO BIO-RETENTION (100% PERVIOUS, 133m<sup>2</sup>)
-  BYPASS AREA (100% PERVIOUS, 26m<sup>2</sup>)
-  PAVED AREA TO BIO-RETENTION (100% IMPERVIOUS, 514m<sup>2</sup>)

MUSIC MODEL SITE AREA BREAKUP  
SCALE 1:200



	Sources	Residual Load	% Reduction
Flow (ML/yr)	0.488	0.474	2.9
Total Suspended Solids (kg/yr)	90.9	12.7	86.1
Total Phosphorus (kg/yr)	0.144	0.0495	65.5
Total Nitrogen (kg/yr)	1.07	0.53	50.4
Gross Pollutants (kg/yr)	13.3	0	100



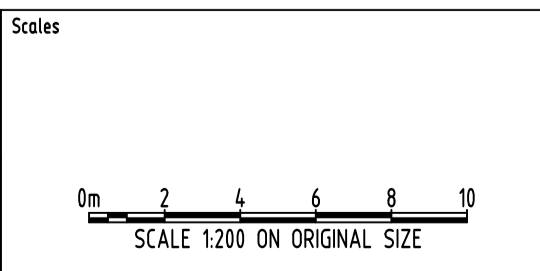
Reference Coordination Drawing			
Discipline	Drawing Title and Number	Date	Rev.
ARCH			
ARCH			
STRUCT			
MECH			
ELEC			
HYD			
FRG			
LANDS			
CIVIL			
SURVEY			

Issuer internal sequence and revision history			
Issue	Last revision title	by	Date
A	FINAL ISSUE	LN	24.08.2018

QUALITY CONTROL	
DRAWN	DATE
CHECKED	DATE
DESIGNED	DATE
VERIFIED	DATE
APPROVED	DATE

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PROPOSED RESIDENTIAL  
DEVELOPMENT  
36-38 RODLEY AVENUE  
PENRITH

Drawing Status FOR APPROVAL NOT TO BE USED FOR CONSTRUCTION PURPOSES		
Drawing Title STORMWATER CONCEPT DESIGN MUSIC CATCHMENT PLAN		
Project No 20180061	Drawing No SW500	Revision No A