SW100

PROPOSED RESIDENTIAL DEVELOPMENT 44-48 RODLEY AVENUE, PENRITH STORMWATER CONCEPT DESIGN



DRAWINGS LIST							
SHEET No.	DWG No.	TITLE	REV				
1	SW100	COVER SHEET	D				
2	SW200	STORMWATER CONCEPT DESIGN - BASEMENT 2 PLAN	D				
3	SW201	STORMWATER CONCEPT DESIGN - GROUND FLOOR PLAN	D				
4	SW202	STORMWATER CONCEPT DESIGN - ROOF PLAN	D				
5	SW300	STORMWATER CONCEPT DESIGN - DETAILS SHEET	D				
6	SW400	EROSION AND SEDIMENT CONTROL - PLAN AND DETAILS	D				
7	SW500	MUSIC MODEL CATCHMENT PLAN	D				

LOCALITY PLAN COPYRIGHT OF GOOGLE MAP, VERSION 3



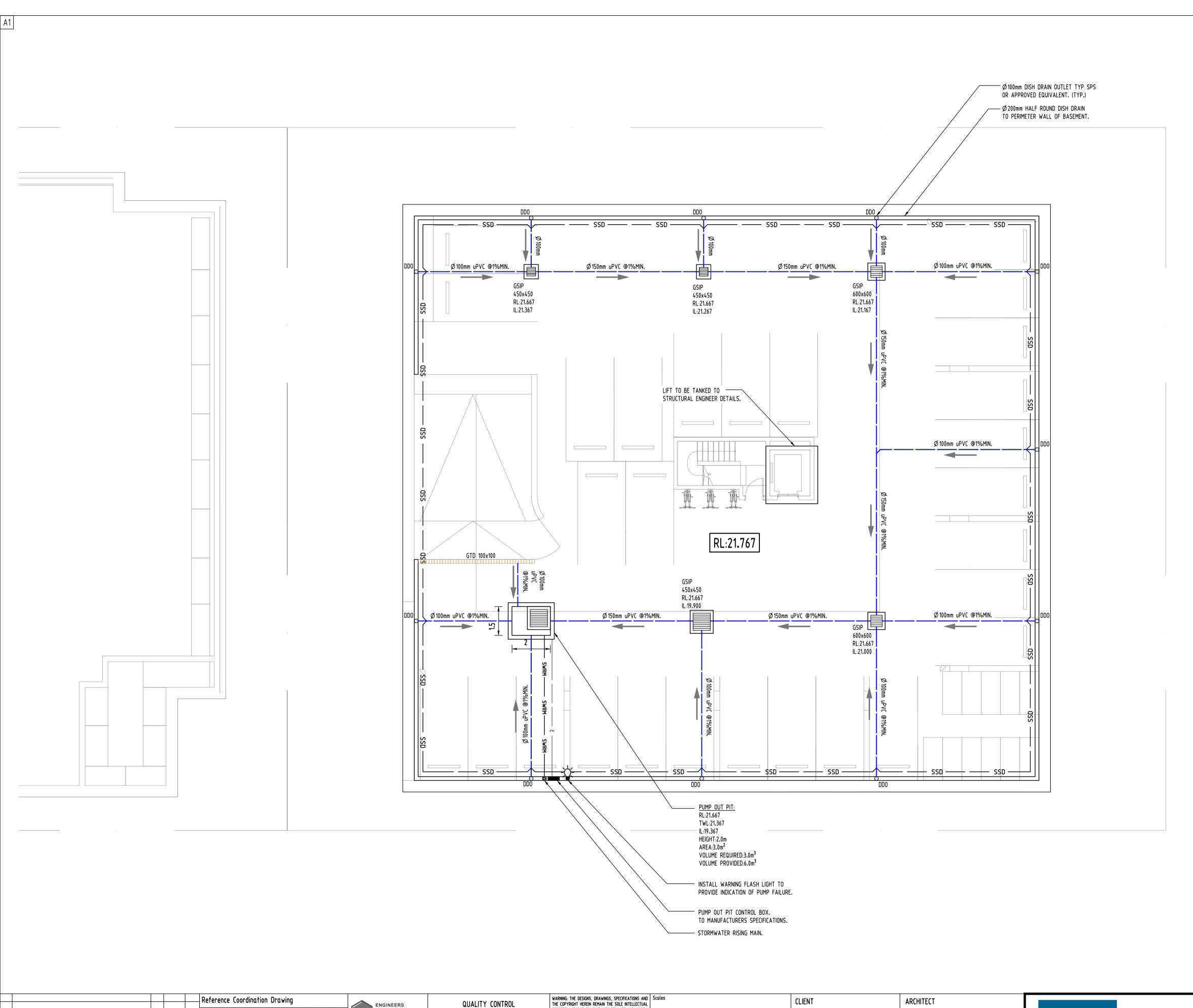
SGC Consulting Engineers Suite 5.03, Level 5 156 Pacific Highway ST. LEONARDS, NSW 2065 T: +61 2 8883 4239 Email: office@sgce.com.au Engineering Value Web: www.sgce.com.au

ARCHITECT:

MORSON GROUP:

CLIENT:

INGLOW INVESTMENTS TWO P/L



000 SERVICES ON THIS DRAWING ARE SHOWN BELOW SJDB U.N.O

PUMP-OUT PIT NOTE:

INSTALL WITH THE FOLLOWING ITEMS: - 900SQ HEAVY DUTY STEEL GRATED LID FOR ACCESS AND MAINTENANCE PURPOSES. -CONFINED SPACE SIGN ABOVE PUMP OUT PIT FOR PUBLIC AWARENESS AND WARNING. -STEP IRONS. REFER TO DETAILS. -PUMPOUT PIT CONTROL BOX (CTRL) TO MANUFACTURERS SPECIFICATIONS. LOCATIONS TO BE CONFIRMED WITH ARCHITECT. -PUMPS TO OPERATE IN ALTERNATE MODE TO INCREASE LIFESPAN -INSTALL VISIBLE FLASHING LIGHT SYSTEM IN CASE OF PUMP FAILURE

SUBSOIL DESIGN CALCS: THE AREA OF DRIVEWAY RAMP IS COVERED

THEREFORE IN ACCORDANCE WITH AS3500, THE MINIMUM PUMPOUT PIT SIZE IS 3m³.

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 Ø 100mm

ALL STORMWATER PUMPS TO BE CLASS 1 ZONE 2 FLAME SAFE TO ELECTRICAL CONSULTANT'S

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YR 11.11.20 2 MECH
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STORMWATER CONCEPT DESIGN BASEMENT 2 PLAN

FOR APPROVAL

NOT TO BE USED FOR CONSTRUCTION PURPOSES

4-tender

Issuer internal sequence and revision history

2-development application

5-construction

JDNDS

SURVEY

CIVIL

3-construction certificate

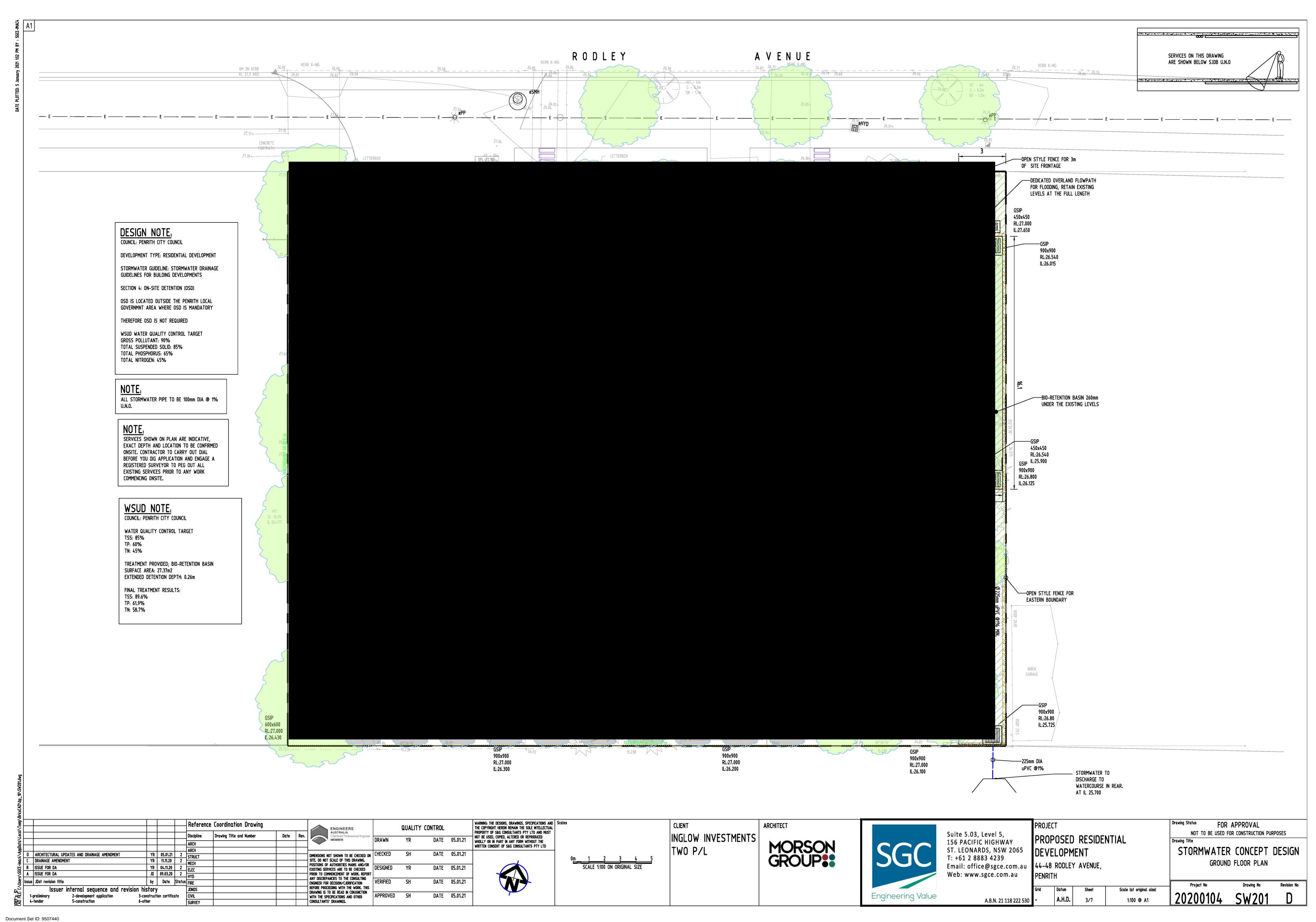
6-other

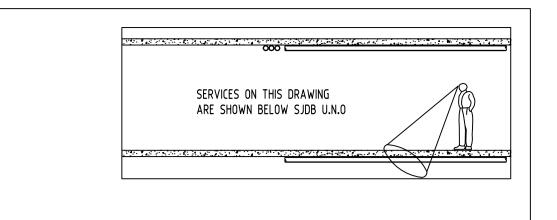
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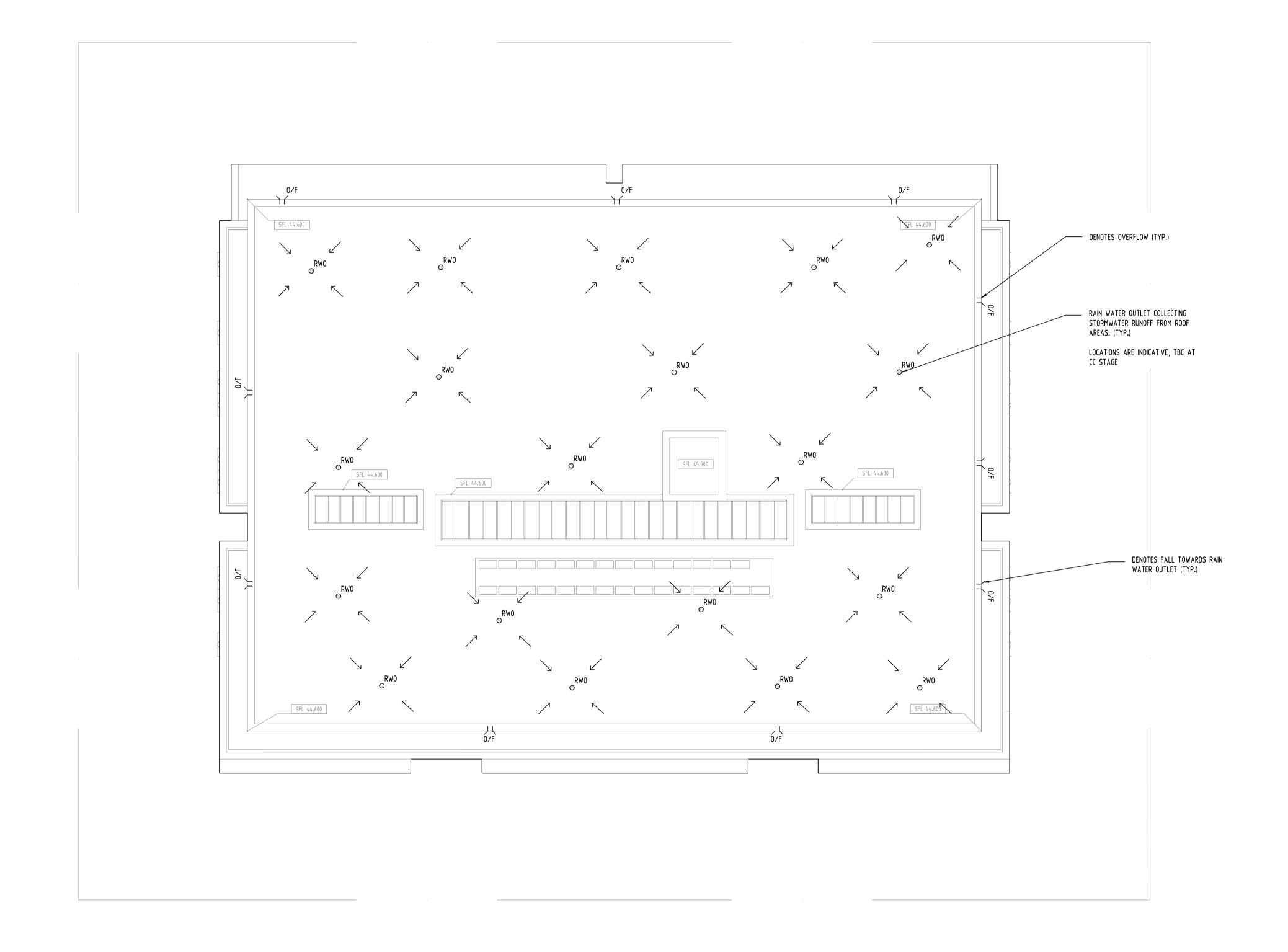
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WITH THE SPECIFICATIONS AND OTHER APPROVED SH

DATE 05.01.21







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SCALE 1:100 ON ORIGINAL SIZE

INGLOW INVESTMENTS MORSON GROUP: TWO P/L

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Suite 5.03, Level 5, 156 PACIFIC HIGHWAY ST. LEONARDS, NSW 2065 T: +61 2 8883 4239 Email: office@sgce.com.au 44-48 RODLEY AVENUE, Web: www.sgce.com.au

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1:100 @ A1

Datum

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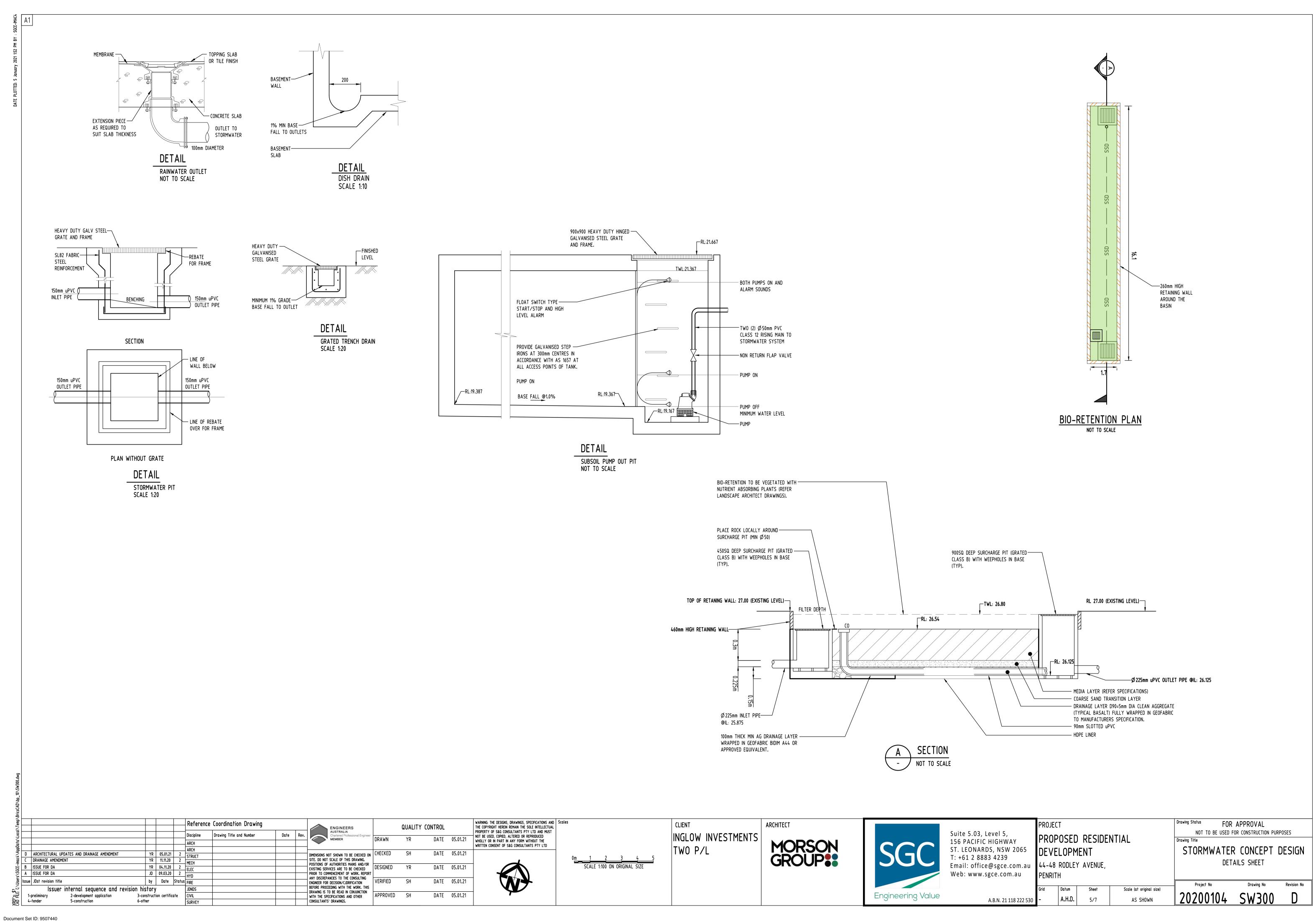
STORMWATER CONCEPT DESIGN ROOF PLAN

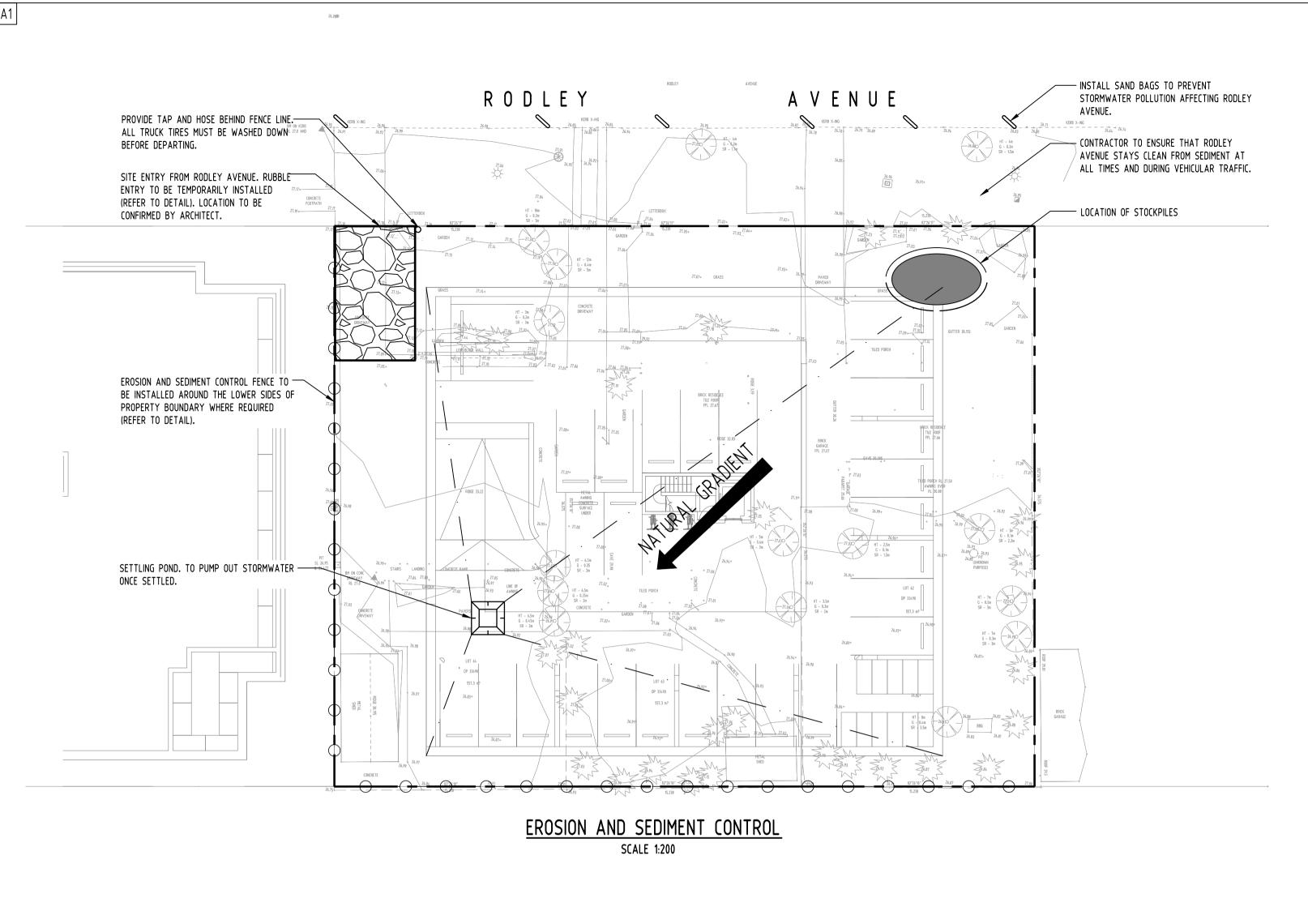
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4-tender

5-construction





EROSION & SEDIMENTATION CONTROL NOTES

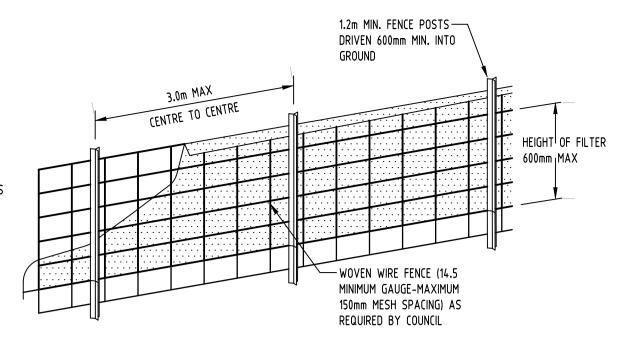
- 1. CONTRACTOR SHALL PROVIDE SEDIMENT FENCING MATERIAL DURING CONSTRUCTION TO THE LOW SIDE OF THE WORKS. TIE SEDIMENT FENCING MATERIAL TO CYCLONE WIRE SECURITY FENCE. SEDIMENT CONTROL FABRIC SHALL BE AN APPROVED MATERIAL (EG. HUMES PROPEX SILT STOP) STANDING 300mm ABOVE GROUND & EXTENDING 150mm BELOW GROUND.
- 2. EXISTING DRAINS LOCATED WITHIN THE SITE SHALL ALSO BE ISOLATED BY SEDIMENT FENCING MATERIAL.
- 3. NO PARKING OR STOCKPILING OF MATERIALS IS PERMITTED ON THE LOWER SIDE OF THE SEDIMENT FENCE.
- 4. GRASS VERGES SHALL BE MAINTAINED AS MUCH AS PRACTICAL TO PROVIDE A BUFFER ZONE TO THE CONSTRUCTION SITE.
- 5. 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

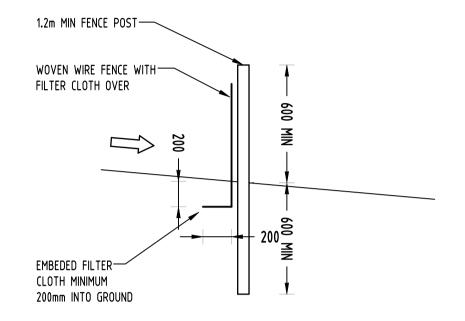
- THIS PLAN IS A CONCEPT PLAN ONLY FOR STORMWATER DISPOSAL & EROSION CONTROL. IT IS NOT SUITABLE FOR CONSTRUCTION. THIS PLAN SHOULD BE ADAPTED BY THE BUILDER DURING DEMOLITION, EXCAVATION & CONSTRUCTION PHASES TO ENSURE ADEQUATE PERFORMANCE.
- 2. ALL DRAINAGE LAYOUT & DETAILS ARE DIAGRAMMATIC & INDICATIVE 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.
- 2. 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

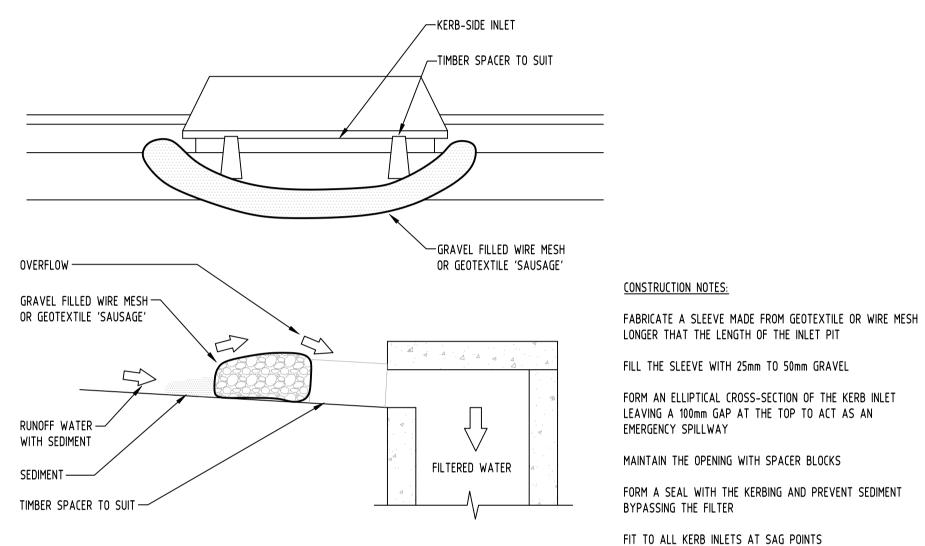


TYPICAL SECTION

SEDIMENT FENCE NOT TO SCALE

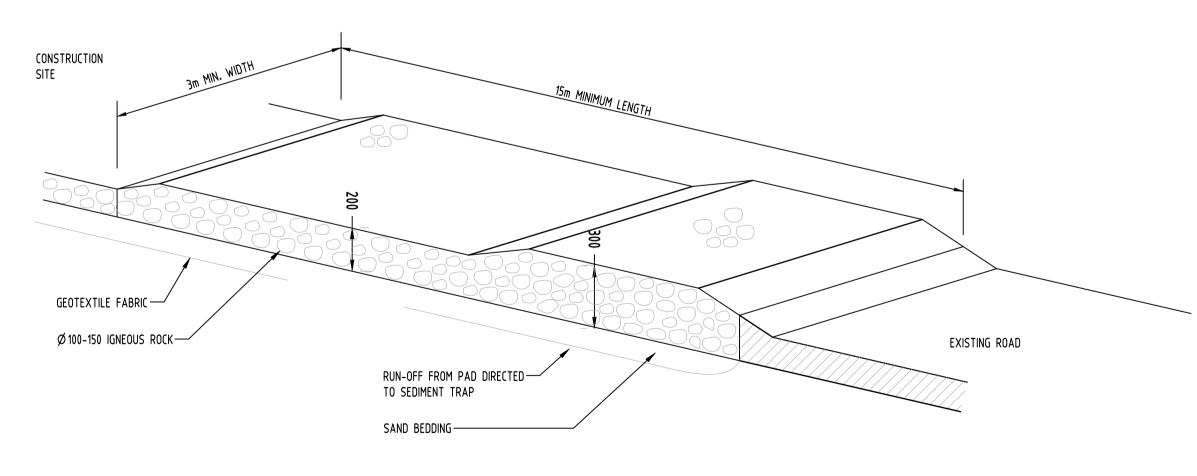
GEOTEXTILE INLET FILTER

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



GRAVEL INLET FILTER (SAUSAGE)

NOT TO SCALE



TEMPORARY CONSTRUCTION EXIT

RUBBLE ALTERNATIVE

NOT TO SCALE

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Issuer internal sequence and revision history

2-development application

5-construction

LEGEND

SEDIMENT FENCE

SANDBAGS

STABILISED SITE ACCESS

Reference Coordination Drawing

Discipline

JDNDS

SURVEY

CIVIL

YR 05.01.21 2 STRUCT MECH
YR 04.11.20 2 ELEC

JD 09.03.20 2 HYD

by Date Status FIRE

3-construction certificate

6-other

ENGINEERS
AUSTRALIA
Chartered Professional Engineer
MEMBER

DRAWN

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-DROP INLET

WITH GRATE

- GEOTEXTILE

FILTER FABRIC

BURIED 0.2m

0<u>m 2 4 6 8 1</u>0 SCALE 1:200 ON ORIGINAL SIZE

SILT FENCE-

RUN-OFF WATER

WITH SEDIMENT

GEOTEXTILE INLET FILTER

NOT TO SCALE

INGLOW INVESTMENTS
TWO P/L

FILTERED

WATER

MORSON GROUP:



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PROJECT
PROPOSED RESIDENTIAL
DEVELOPMENT
44-48 RODLEY AVENUE,
PENRITH

Scale (at original size)

1:200 @ A1

Datum

| A.H.D. |

EROSION AND SEDIMENT CONNTROL
PLAN AND DETAILS

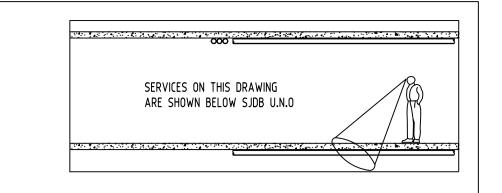
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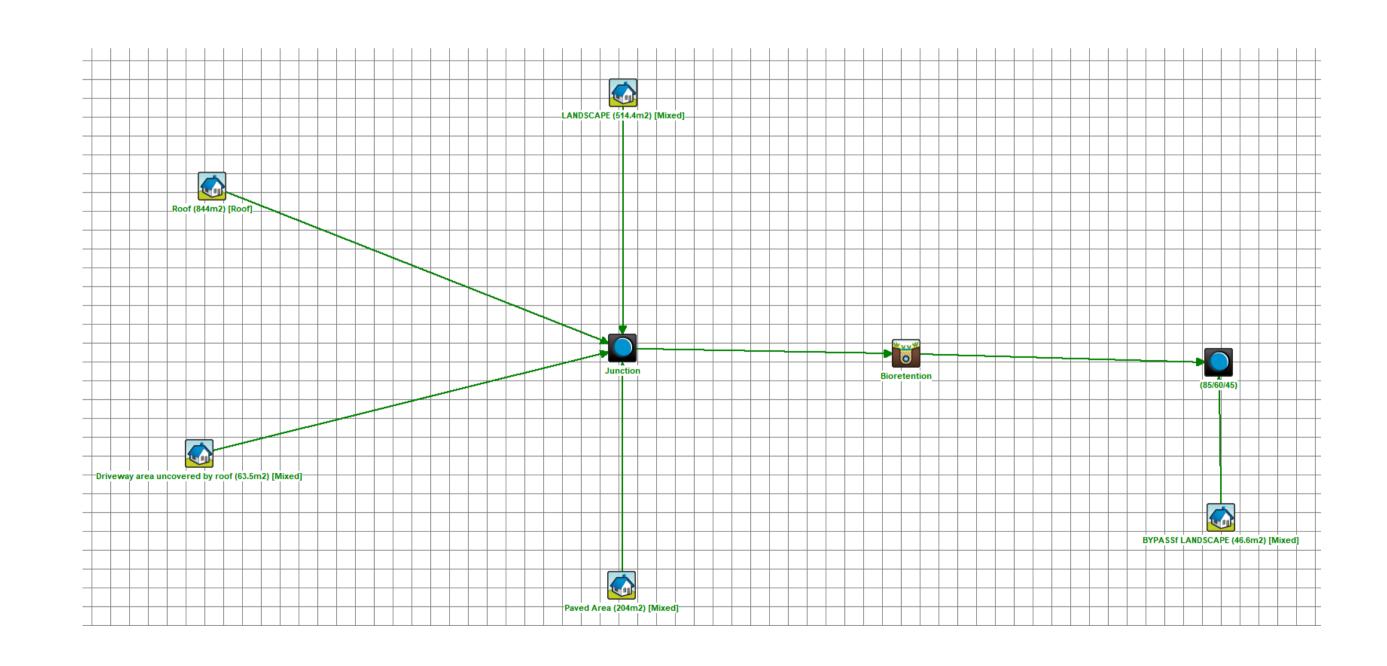
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4-tender





MUSIC MODEL SITE AREA BREAK UP



	Sources	Residual Load	% Reduction
Flow (ML/yr)	0.73	0.686	6.1
Total Suspended Solids (kg/yr)	54.4	6.66	87.8
Total Phosphorus (kg/yr)	0.144	0.0573	60.1
Total Nitrogen (kg/yr)	1.6	0.696	56.5
Gross Pollutants (kg/yr)	19.8	0	100

						Reference	Coordination Drawing	ı	_	ENGINEERS		QUALITY	CONTROL	
						Discipline	Drawing Title and Number	Date	Rev.	AUSTRALIA Chartered Professional Enginee MEMBER	DRAWN	YR	DATE	05.01.21
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PROPOSED RESIDENTIAL DEVELOPMENT

FOR APPROVAL NOT TO BE USED FOR CONSTRUCTION PURPOSES STORMWATER CONCEPT DESIGN

MUSIC MODEL CATCHMENT PLAN

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