

MIXED USE DEVELOPMENT 614-632 HIGH STREET, 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 - GROUND FLOOR PLAN	A
3	SW201	STORMWATER CONCEPT DESIGN - LEVEL 7 FLOOR PLAN	A
4	SW202	STORMWATER CONCEPT DESIGN - ROOF PLAN	A
5	SW300	STORMWATER CONCEPT DESIGN - DETAILS SHEET - SHEET 1 OF 2	A
6	SW301	STORMWATER CONCEPT DESIGN - DETAILS SHEET - SHEET 2 OF 2	A
7	SW400	EROSION AND SEDIMENT CONTROL - PLAN AND DETAILS	A
8	SW500	STORMWATER CONCEPT DESIGN - MUSIC CATCHMENT PLAN	A
9	SW501	STORMWATER CONCEPT DESIGN - HGL ANALYSIS & LONG SECTION	A

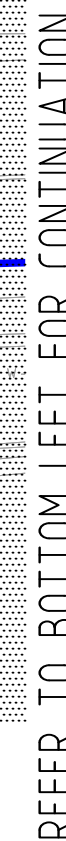










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CLIENT :

URBAN APARTMENTS



Reference Coordination Drawing				 ENGINEERS AUSTRALIA Professional Engineering Member		QUALITY CONTROL DRAWN AA DATE 30.09.19 CHECKED SH DATE 30.09.19 DESIGNED AA DATE 30.09.19 VERIFIED SH DATE 30.09.19 APPROVED SH DATE 30.09.19		WARNING: THE DESIGNS, DRAWINGS, SPECIFICATIONS AND THE COPYRIGHT HEREIN REMAIN THE SOLE INTELLECTUAL PROPERTY OF S&G CONSULTANTS PTY LTD AND MUST NOT BE USED, COPIED, ALTERED OR REPRODUCED WHOLLY OR IN PART IN ANY FORM WITHOUT THE WRITTEN CONSENT OF S&G CONSULTANTS PTY LTD.		CLIENT URBAN APARTMENTS		ARCHITECT D K O		 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 A.B.N. 21 118 252 530		PROJECT MIXED USE DEVELOPMENT 614-632 HIGH STREET, PENRITH		Drawing Status FOR APPROVAL NOT TO BE USED FOR CONSTRUCTION PURPOSES		Drawing Title STORMWATER CONCEPT DESIGN GROUND FLOOR PLAN		Project No 20190239		Drawing No SW200		Revision No A	
Discipline Drawing Title and Number Date Rev. ARCH ARCH STRUCT MECH ELEC HYD				DIMENSIONS NOT SHOWN TO BE CHECKED ON SITE. DO NOT SCALE UP 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.				Scale  SCALE 1:200 ON ORIGINAL SIZE		CLIENT URBAN APARTMENTS		ARCHITECT D K O		 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 A.B.N. 21 118 252 530		PROJECT MIXED USE DEVELOPMENT 614-632 HIGH STREET, PENRITH		Drawing Status FOR APPROVAL NOT TO BE USED FOR CONSTRUCTION PURPOSES		Drawing Title STORMWATER CONCEPT DESIGN GROUND FLOOR PLAN		Project No 20190239		Drawing No SW200		Revision No A	
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SERVICES ON THIS DRAWING
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Reference Coordination Drawing			
Discipline	Drawing Title and Number	Date	Rev.
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ARCH			
STRUCT			
MECH			
ELEC			
HYD			
FIRE			
LANDS			
CIVIL			
SURVEY			

Issue			
Issue	Last revision title	by	Date
A	ISSUE FOR DA	AA	30.09.19
1	1-preliminary		
2	2-development application		
3	3-construction		
4	4-tender		
5	5-construction		
6	6-other		

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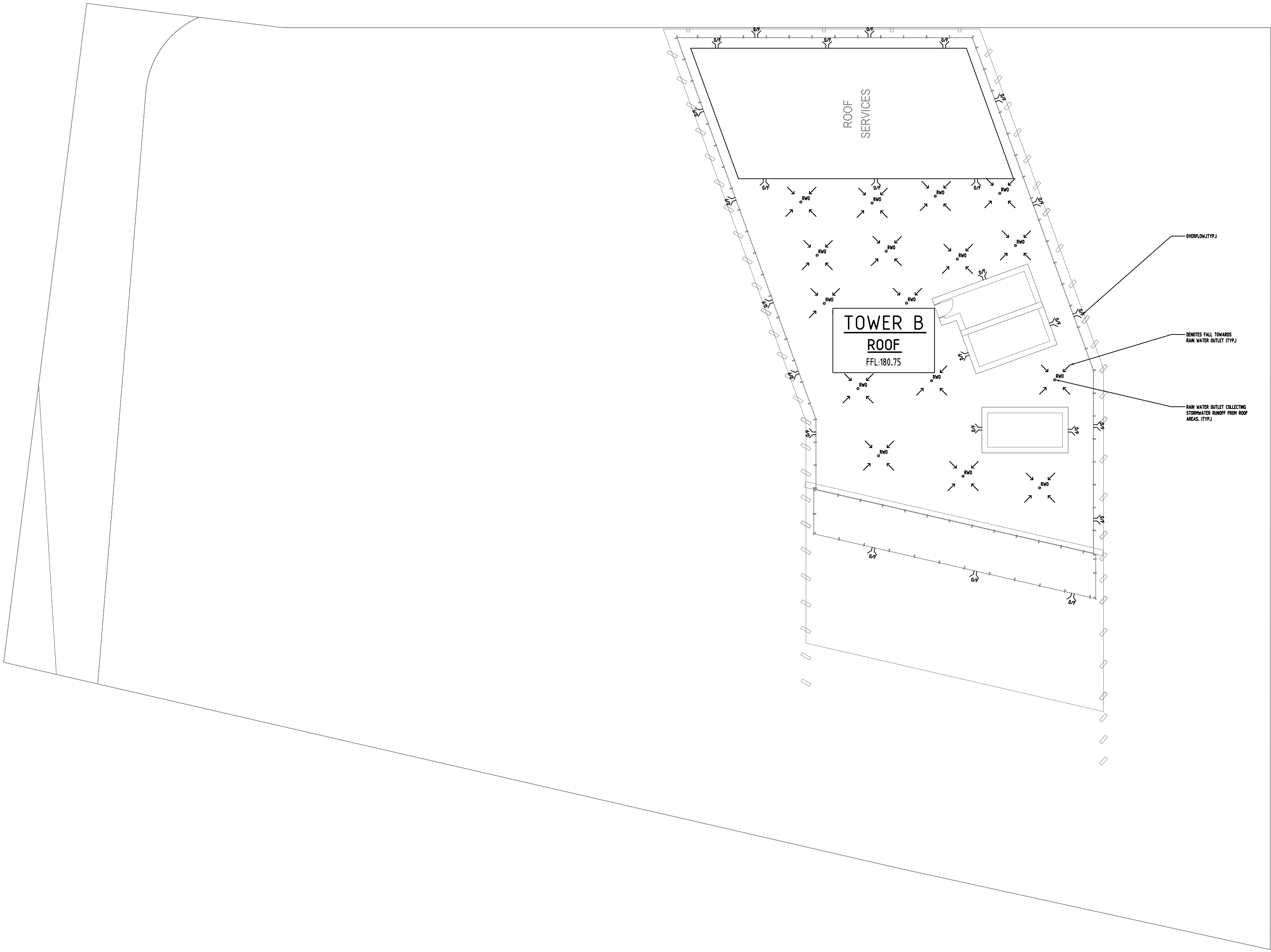
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PROJECT
MIXED USE DEVELOPMENT
614-632 HIGH STREET,
PENRITH

Grid	Datum	Sheet	Scale (at original size)
-	A.H.D.	3 of 9	1:200 @ A1

Drawing Status	FOR APPROVAL	
Drawing Title	NOT TO BE USED FOR CONSTRUCTION PURPOSES	
STORMWATER CONCEPT DESIGN LEVEL 7 PLAN		
Project No	Drawing No	Revision No
20190239	SW201	A

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FIRE				
LANDS				
CIVIL				
SURVEY				

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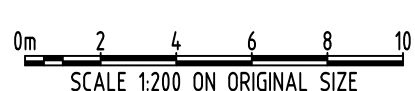
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PROJECT
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Grid
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Datum
A.H.D.
Sheet
4 of 9
Scale (at original size)
1200 @ A1

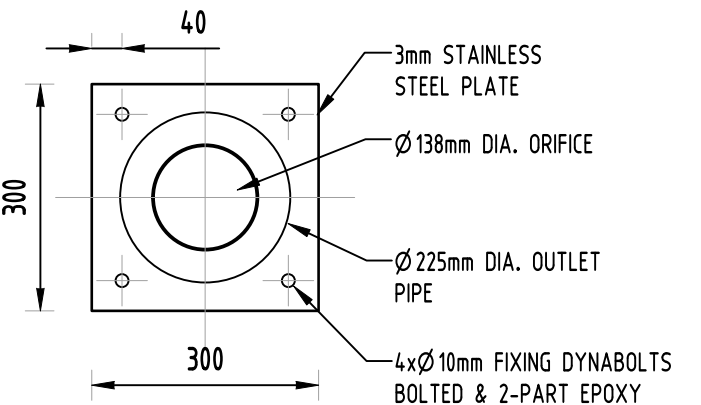
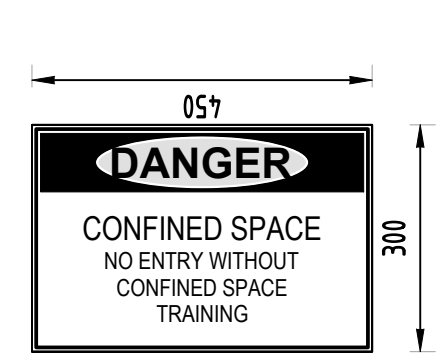
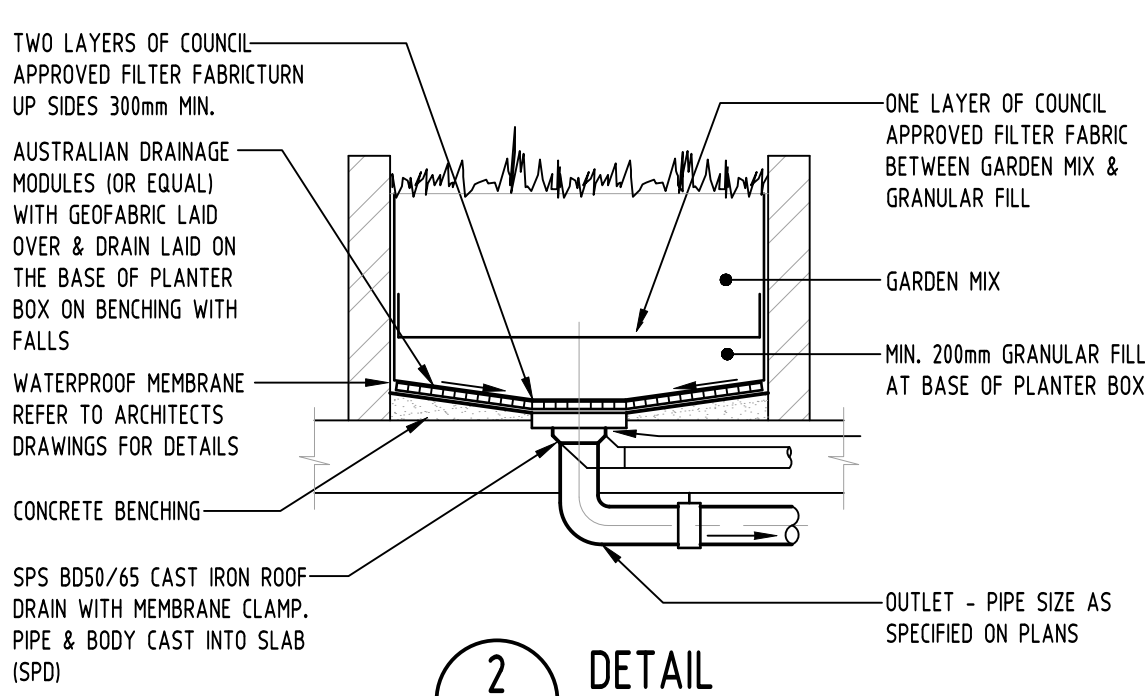
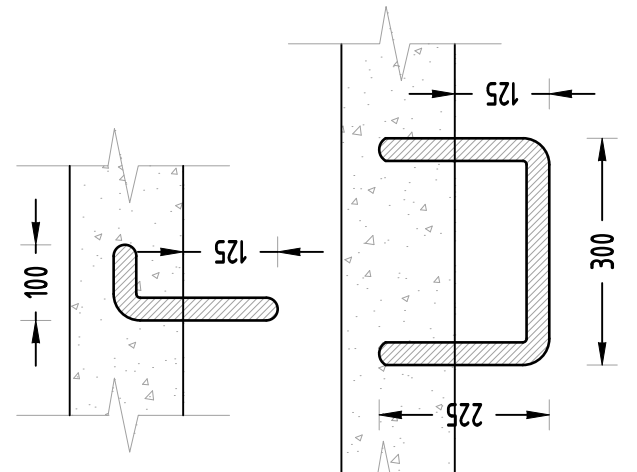
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Drawing Title
**STORMWATER CONCEPT DESIGN
ROOF PLAN**

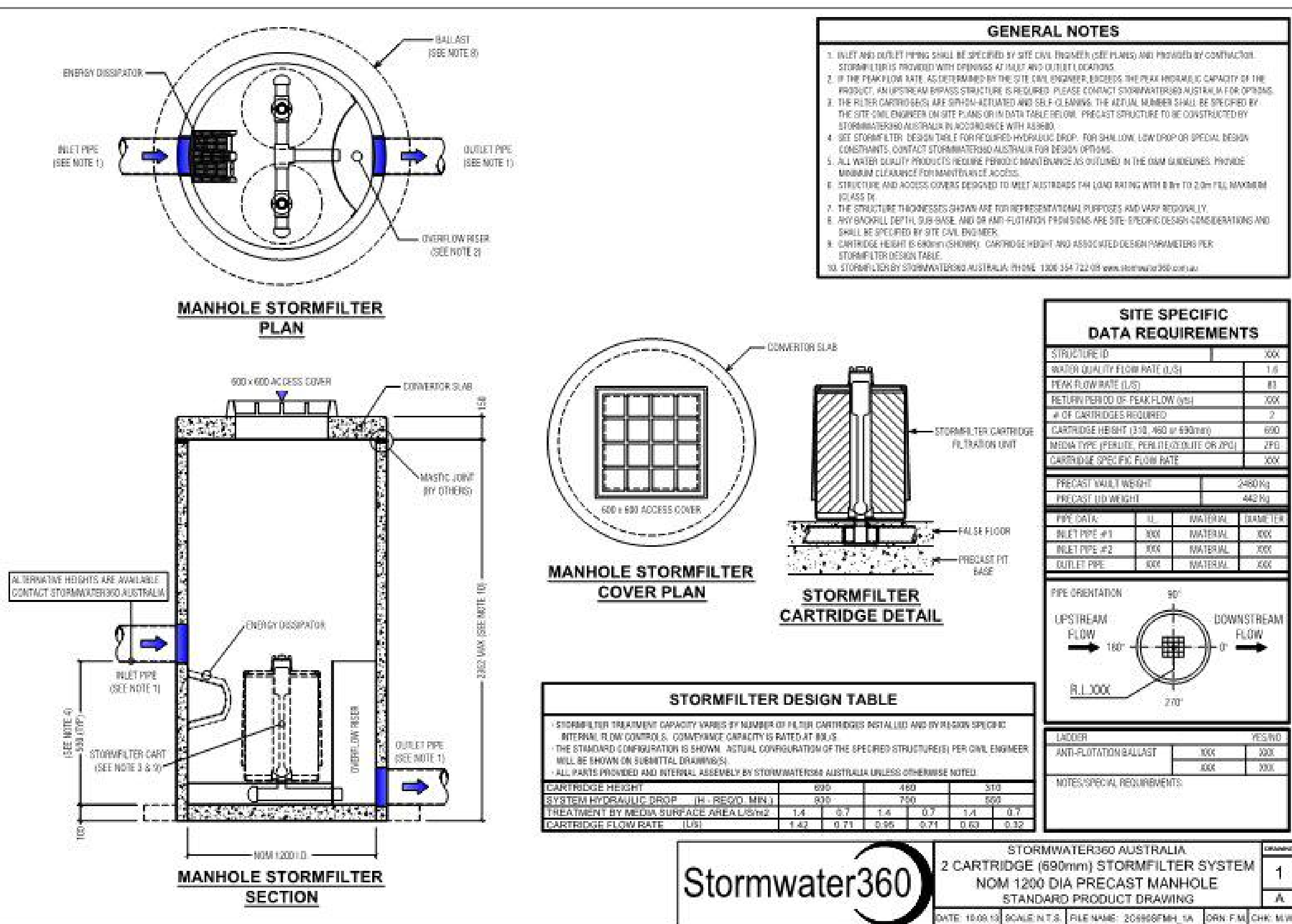
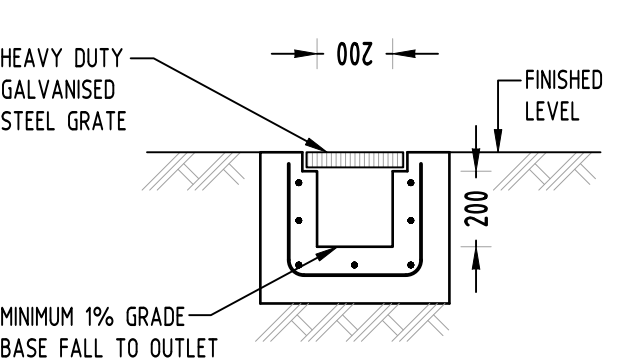
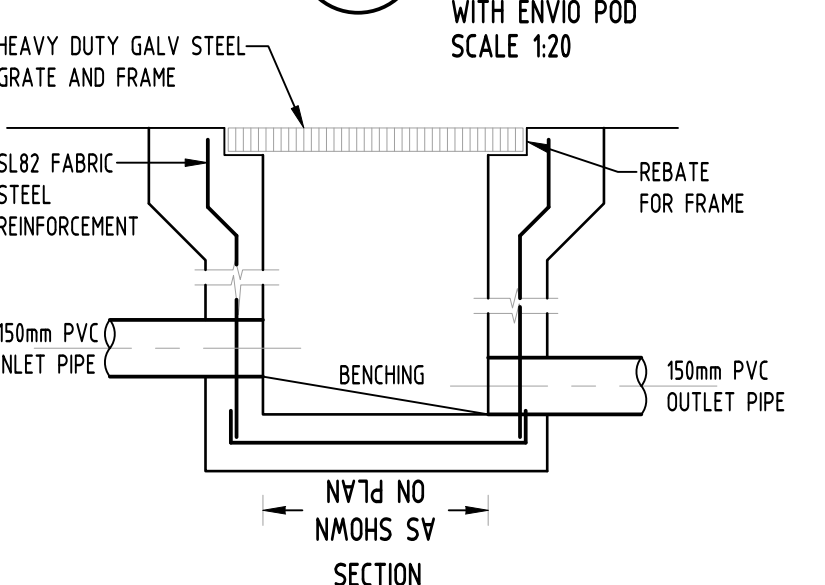
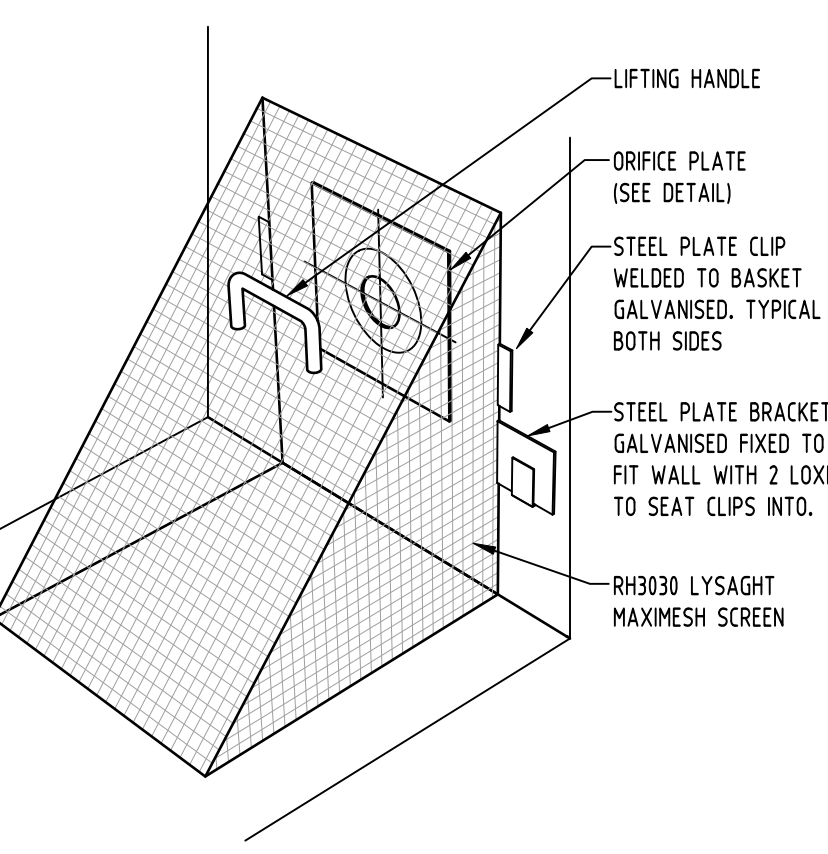
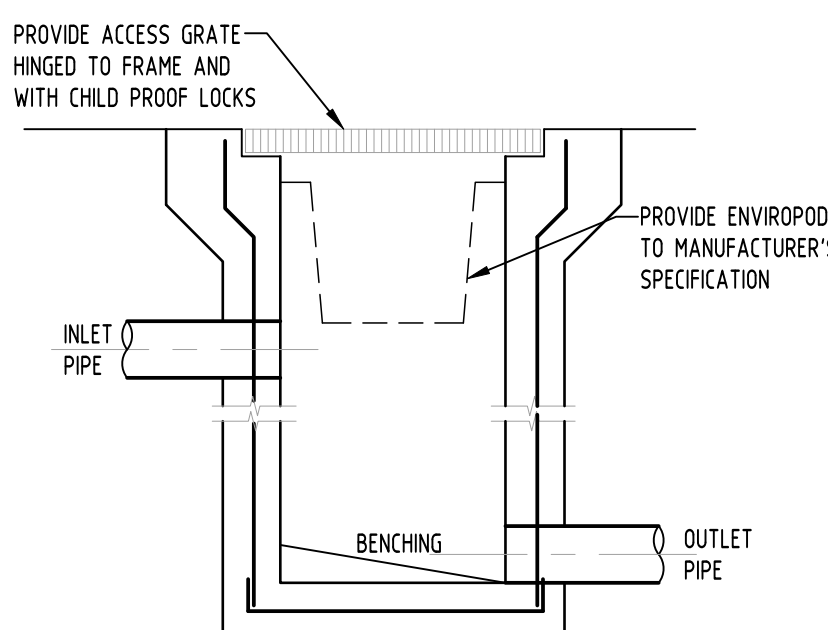
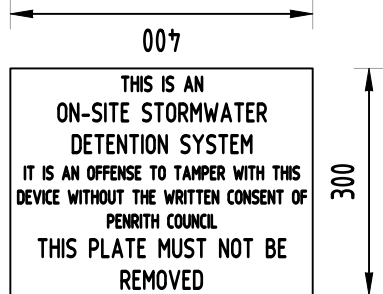
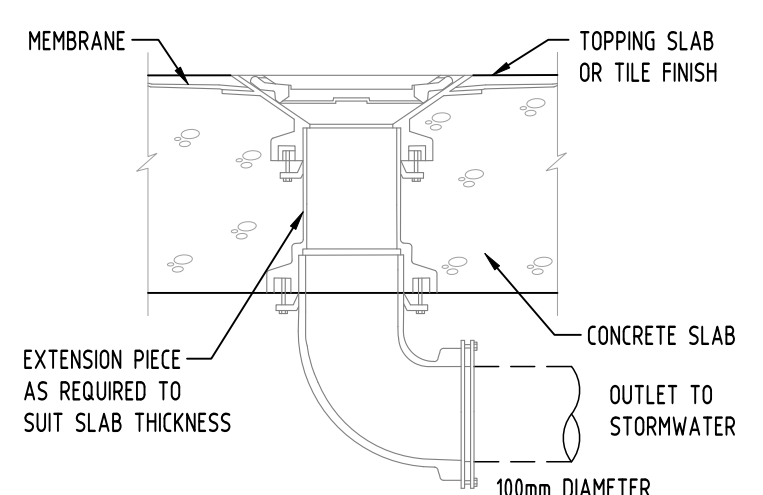
Project No
20190239

Drawing No
SW202

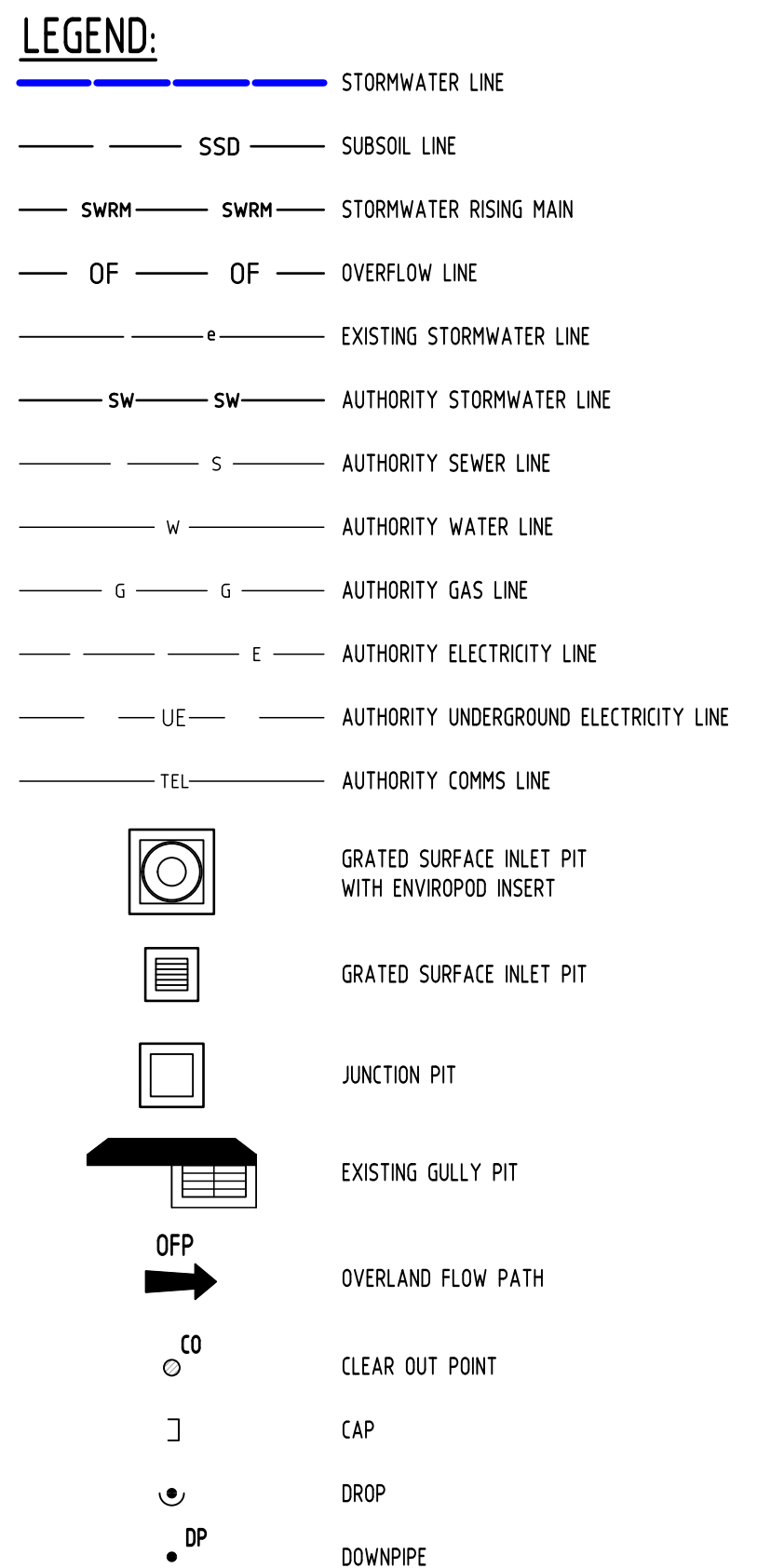
Revision No
A



ORIFICE CALCULATION:
FORMULA: $Q = CA\sqrt{2gh}$ WITH
 $Q = PSD = 0.03823m^3/s$
 $C = 0.62$
 $A = 3.14159r^2/4$ (d ORIFICE DIAMETER)
 $g = 9.81m/s^2$
 $h = 0.86m$
 $d = 138mm$



ABBREVIATIONS:
Ø or DIA DIAMETER
CO CLEAR OUT
DOO DRAIN OUTLET
DP DOWNPIPE
E EXISTING
FFL FINISHED FLOOR LEVEL
GTD GRATED TRENCH DRAIN
GSIP GRATED SURFACE INLET PIT
IL INVERT LEVEL
KIP KERB INLET PIT
NGL NATURAL GROUND LEVEL
OPP OVERLAND FLOWPATH
OSD ON-SITE DETENTION
RCP REINFORCED CONCRETE PIPE
RL REDUCED LEVEL
RWT RAINWATER TANK
SW STORMWATER
SWP STORMWATER PIT
SWRM STORMWATER RISING MAIN
SWS STORMWATER SUMP
TOK TOP OF KERB
TOW TOP OF WALL
UPVC UNPLASTICISED POLYVINYL CHLORIDE



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.

WATER CYCLE MANAGEMENT:

THE SITE IS LOCATED IN PENRITH COUNCIL.

PENRITH COUNCIL WATER SENSITIVE URBAN DESIGN POLICY

CHAPTER 3.2 TARGETS MATRIX

PROPOSED DEVELOPMENT IS MIXED USE.
SITE AREA=4436m² (BY CAD)

1. S.W QUALITY
2. OSD
3. LOCAL OFP
4. FLOODING

1. SW QUALITY TARGET (ACHIEVED REFER TABLE BELOW)

TSS: 85%
TP: 60%
TN: 45%
GP: 90%

2. OSD

25% OF THE SITE HAS BEEN DEDICATED TO THE PROPOSED ROAD AS PER CIVIL/ STORMWATER PLANS PREPARED BY ROBERT BIRD GROUP. THEREFORE OSD WILL BE REQUIRED FOR THE REMAINING 75% (3386m²) OF THE SITE.

THE OSD HAS BEEN DESIGNED IN ACCORDANCE WITH TABLE 8 OF PENRITH CITY COUNCIL STORMWATER DRAINAGE SPECIFICATION FOR BUILDING DEVELOPMENTS.

BY PASS=0%
THEREFORE:
SSR=280m²/ha x 0.3186 = 89.21m³
PSD=120L/shA x 0.3186 = 38.23L/s

3. LOCAL OVERLAND DRAINAGE TARGET
FLOOR LEVELS TO MEET BCA REQUIREMENTS OVERLAND FLOW PATHS MUST BE PROVIDED DETAILS OF CUT AND FILL.

4. FLOODING TARGETS
FLOOR LEVEL AT FPL (100-YR TO 0.5m)

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

Issue			
Issue	Last revision title	by	Date
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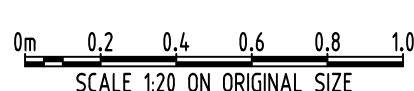
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Scales



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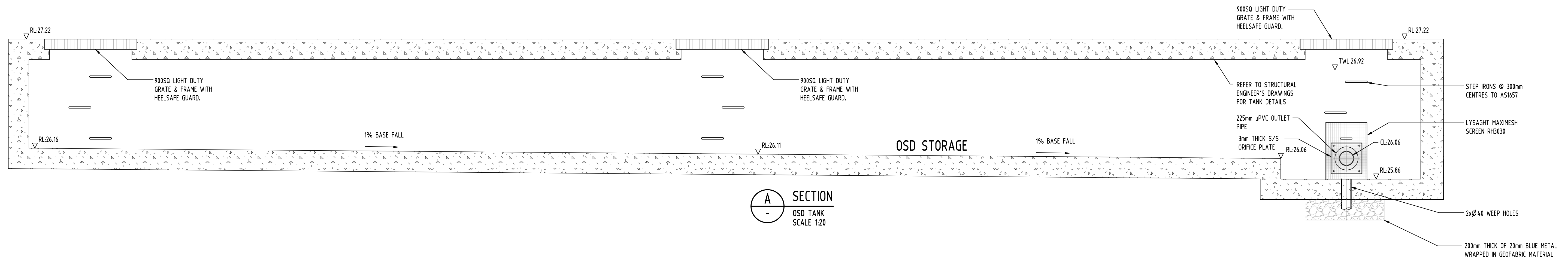


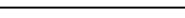

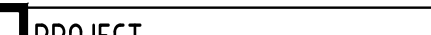
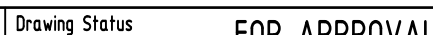
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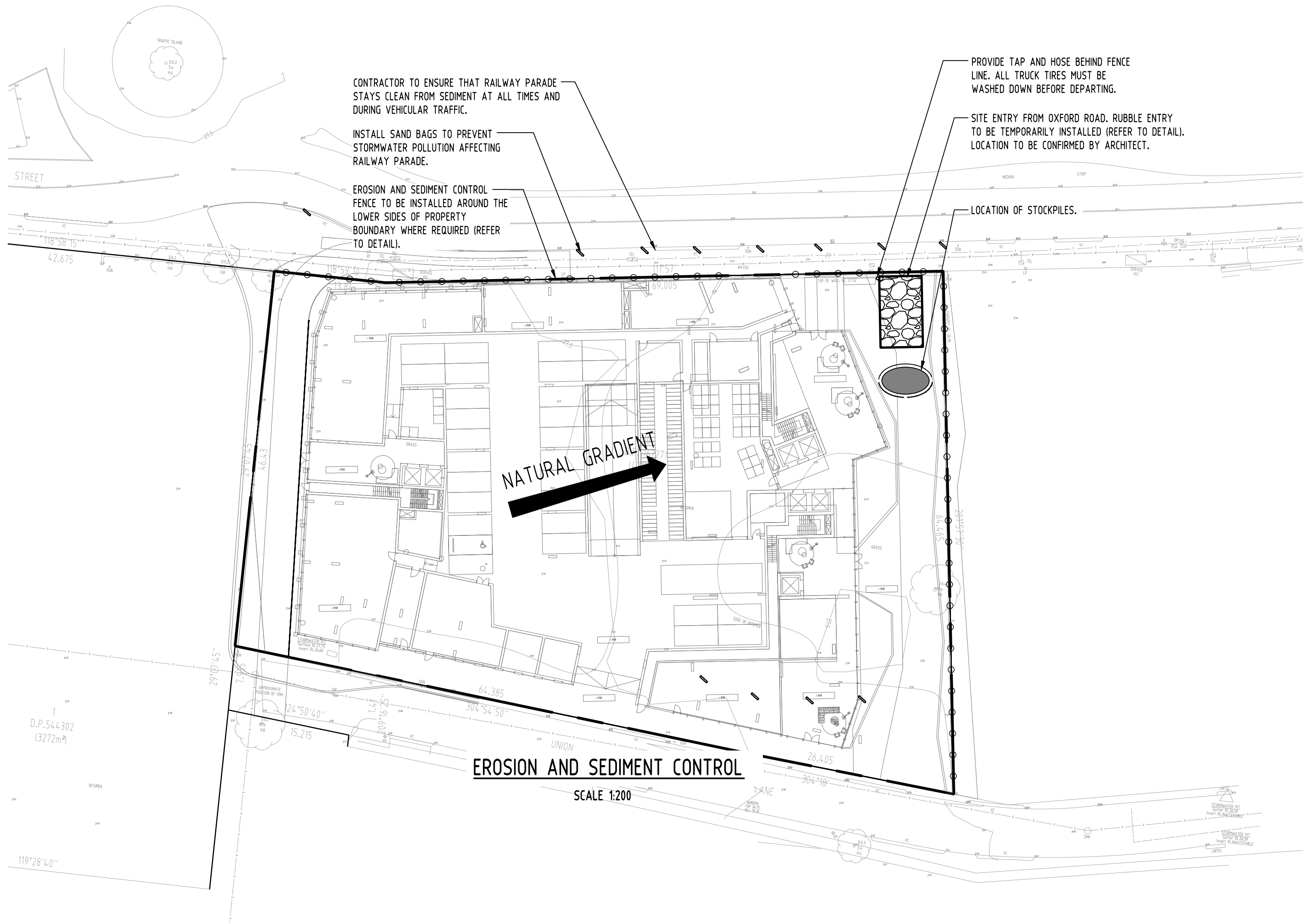
PROJECT
MIXED USE
DEVELOPMENT
614-632 HIGH STREET,
PENRITH

Grid	Datum	Sheet	Scale (at original size)
-	A.H.D.	5 of 9	AS SHOWN

Drawing Status			FOR APPROVAL		
NOT TO BE USED FOR CONSTRUCTION PURPOSES					
Drawing Title			STORMWATER CONCEPT DESIGN		
			DETAILS SHEET		
			SHEET 1 OF 2		
Project No	Drawing No	Revision No			
20190239	SW300	A			



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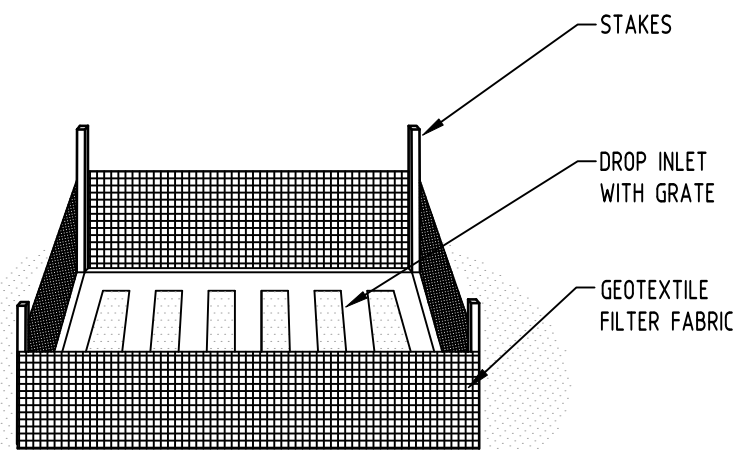


EROSION AND SEDIMENT CONTROL

SCALE 1:200

LEGEND

- SEDIMENT FENCE
- STABILISED SITE ACCESS
- SANDBAGS

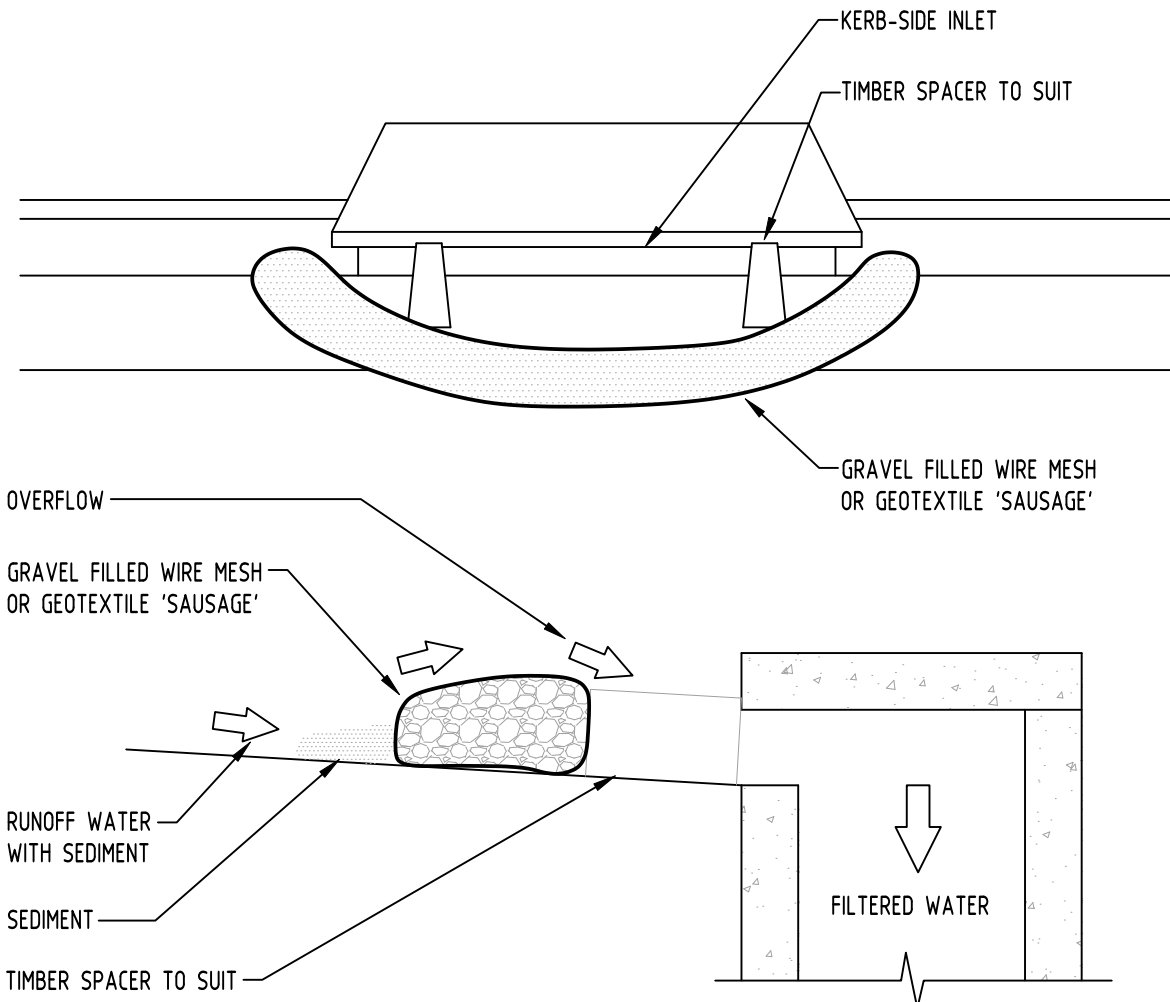


GEOTEXTILE INLET FILTER

NOT TO SCALE

EROSION & SEDIMENTATION CONTROL NOTES

- 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.
- 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.



GRAVEL INLET FILTER (SAUSAGE)

NOT TO SCALE

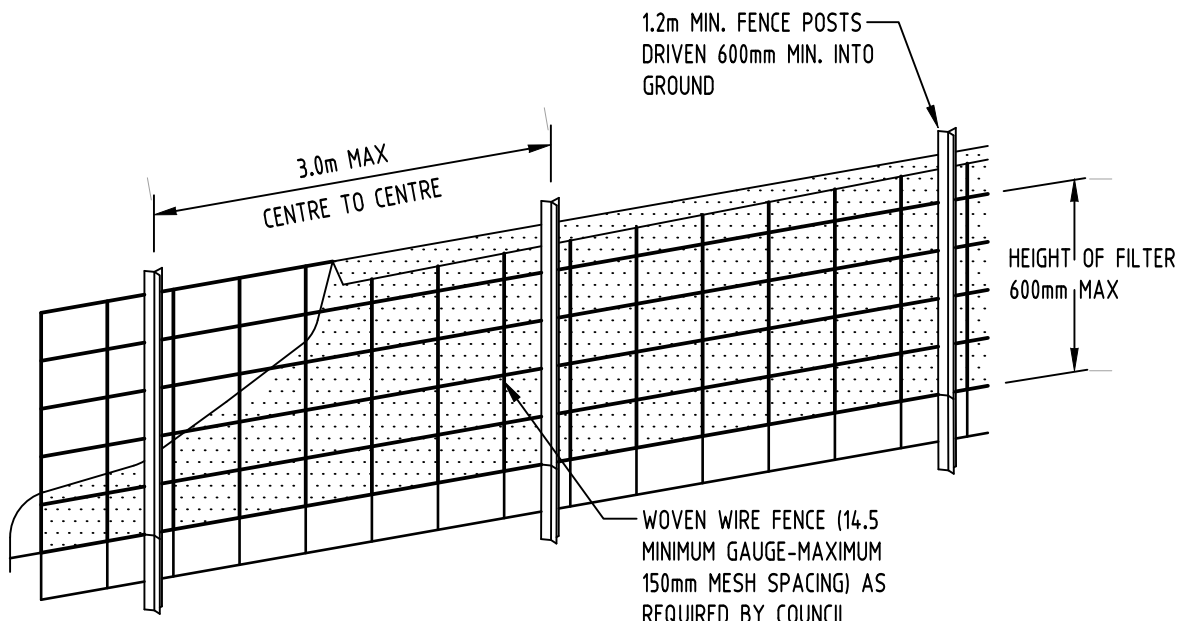
GENERAL NOTES

- 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.

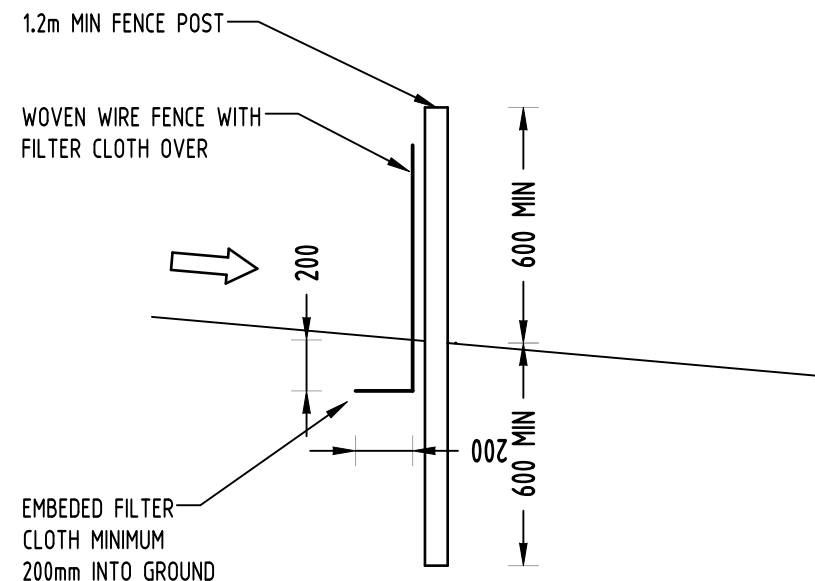
CLAY SOILS

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



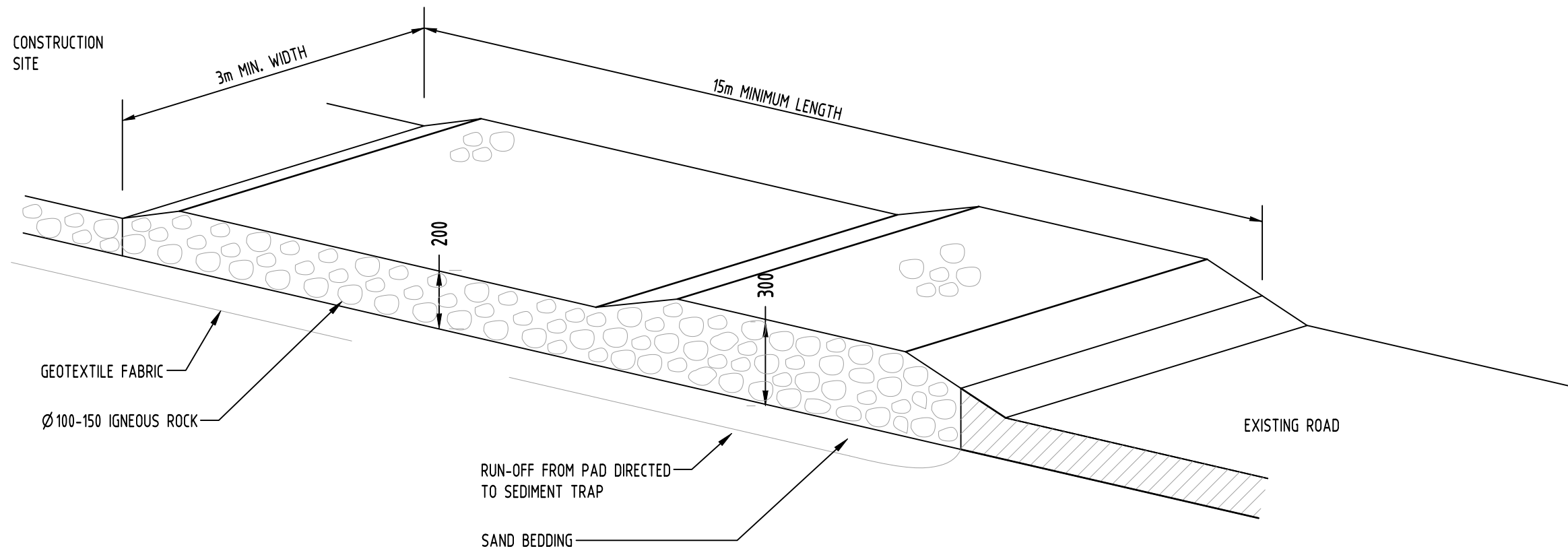
TYPICAL SECTION

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 CONSTRUCTION NOT ENTER THE PITS.



TEMPORARY CONSTRUCTION EXIT

RUBBLE ALTERNATIVE

NOT TO SCALE

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

Issuer internal sequence and revision history			
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FIRE			
LANDS			
CIVIL			
SURVEY			

Issuer internal sequence and revision history			
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1-preliminary			
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3-construction certificate			
4-tender			
5-construction			
6-other			

Reference Coordination Drawing			
Discipline	Drawing Title and Number	Date	Rev.
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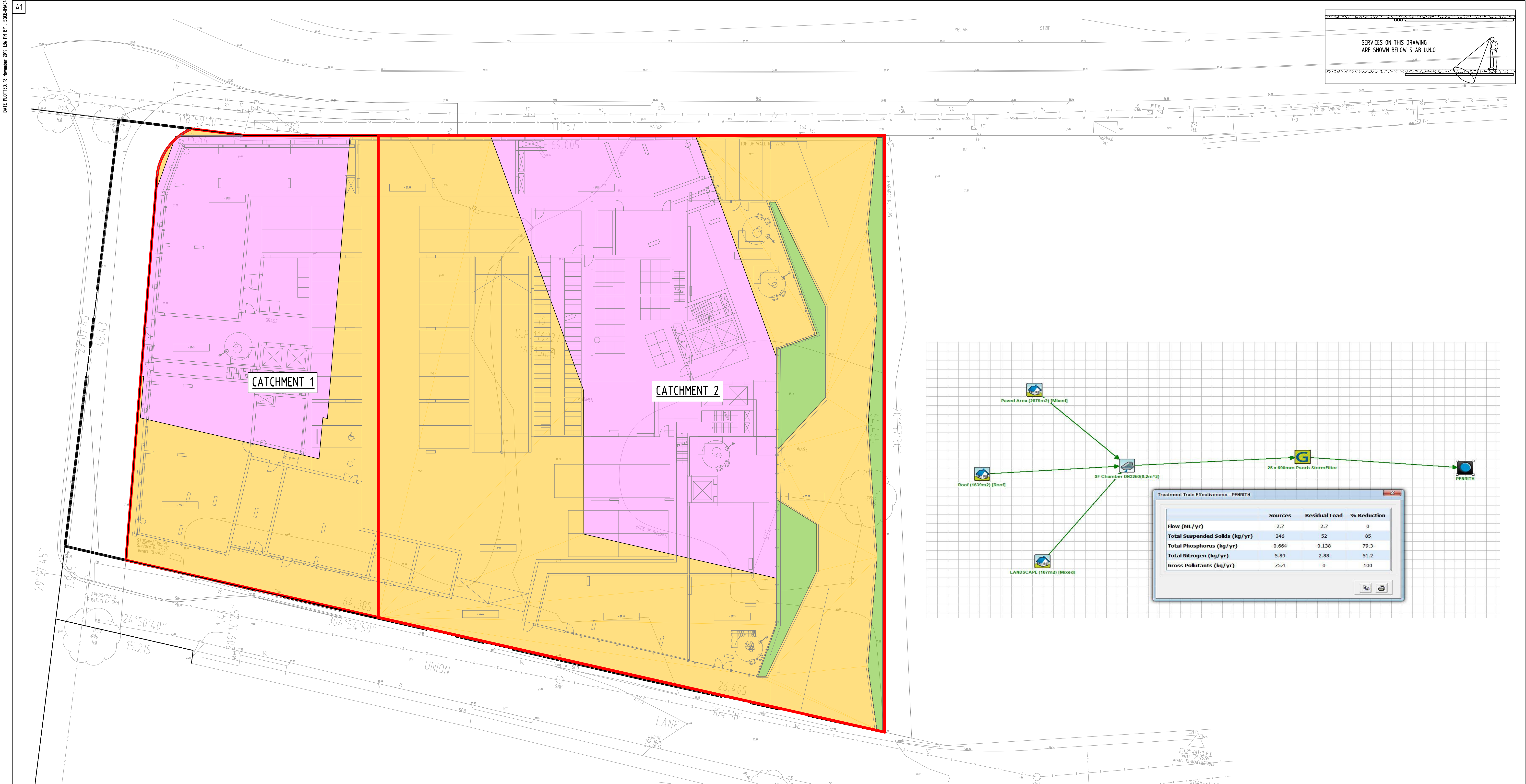
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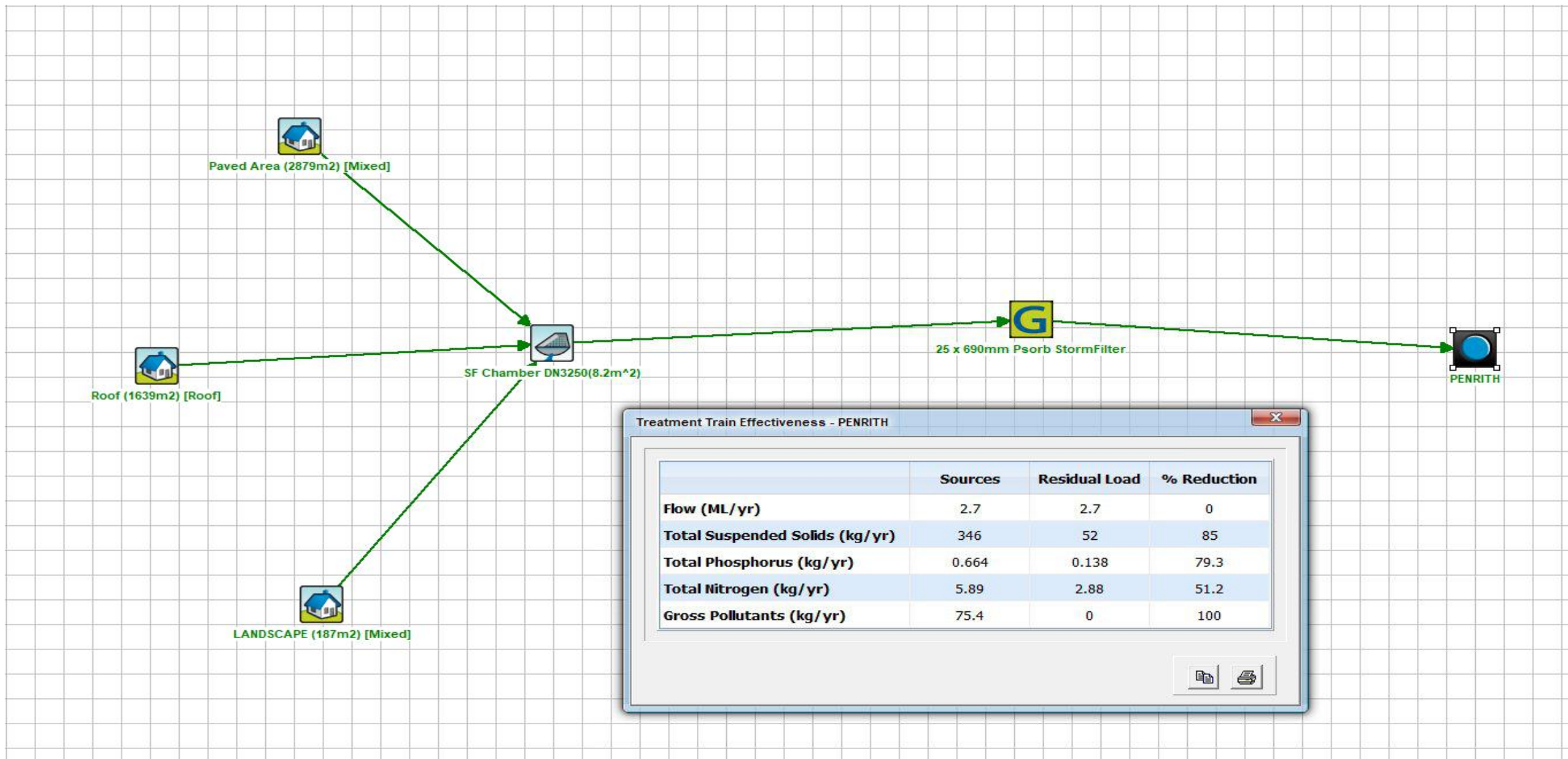
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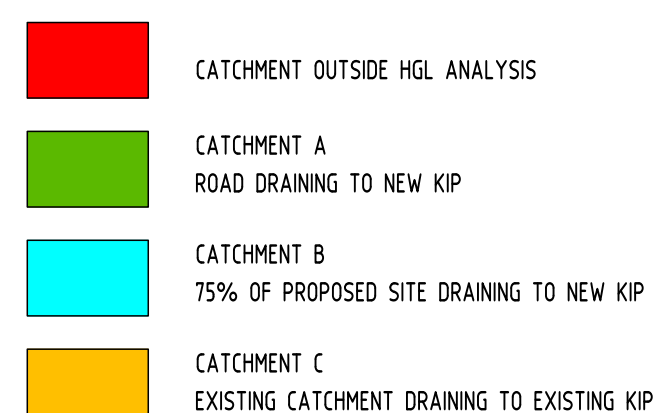
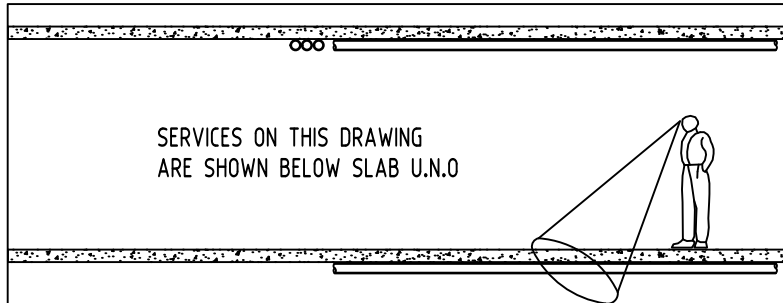


SERVICES ON THIS DRAWING
ARE SHOWN BELOW SLAB U.N.O



LEGEND FOR CATCHMENT 1		LEGEND FOR CATCHMENT 2	
	PAVED AREA TO ENVIROPOD AND SF (588m ²)		LANDSCAPING AREA TO SF (187m ²)
	ROOF AREA TO ENVIROPOD AND SF (661m ²)		PAVED AREA TO ENVIROPOD AND SF (2022m ²)
			ROOF AREA TO ENVIROPOD AND SF (977m ²)

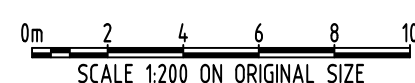
Reference Coordination Drawing				QUALITY CONTROL		CLIENT URBAN APARTMENTS		ARCHITECT DKO		PROJECT MIXED USE DEVELOPMENT 614-632 HIGH STREET, PENRITH		Drawing Status FOR APPROVAL NOT TO BE USED FOR CONSTRUCTION PURPOSES																			
Discipline	Drawing Title and Number	Date	Rev.	DRAWN	AA DATE 30.09.19					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		Drawing Title STORMWATER CONCEPT DESIGN MUSIC CATCHMENT PLAN																			
ARCH				CHECKED	SH DATE 30.09.19																										
ARCH				DESIGNED	AA DATE 30.09.19																										
STRUCT				VERIFIED	SH DATE 30.09.19																										
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HYD																															
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Issue internal sequence and revision history				WARNING: THE DESIGNS, DRAWINGS, SPECIFICATIONS AND THE COPYRIGHT HEREIN REMAIN THE SOLE INTELLECTUAL PROPERTY OF S&G CONSULTANTS PTY LTD AND MUST NOT BE USED, COPIED, ALTERED OR REPRODUCED WHOLLY OR IN PART IN ANY FORM WITHOUT THE WRITTEN CONSENT OF S&G CONSULTANTS PTY LTD						A.B.N. 21 118 222 530		Datum A.H.D.																			
1-preliminary	2-development application	3-construction certificate	4-tender																												
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<p>Issuer internal sequence and revision history</p> <table border="0"> <tr> <td>1-preliminary</td> <td>2-development application</td> <td>3-construction certificate</td> </tr> <tr> <td>4-tender</td> <td>5-construction</td> <td>6-other</td> </tr> </table>								1-preliminary	2-development application	3-construction certificate	4-tender	5-construction	6-other
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				SURVEY									

ENGINEERS AUSTRALIA Professional Engineer MEMBER	QUALITY CONTROL			
	DRAWN	AA	DATE	30.09.19
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ARCHITECT
D K O

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A.B.N. 21 118 222 530

PROJECT
MIXED USE
DEVELOPMENT
614-632 HIGH STREET,
PENRITH

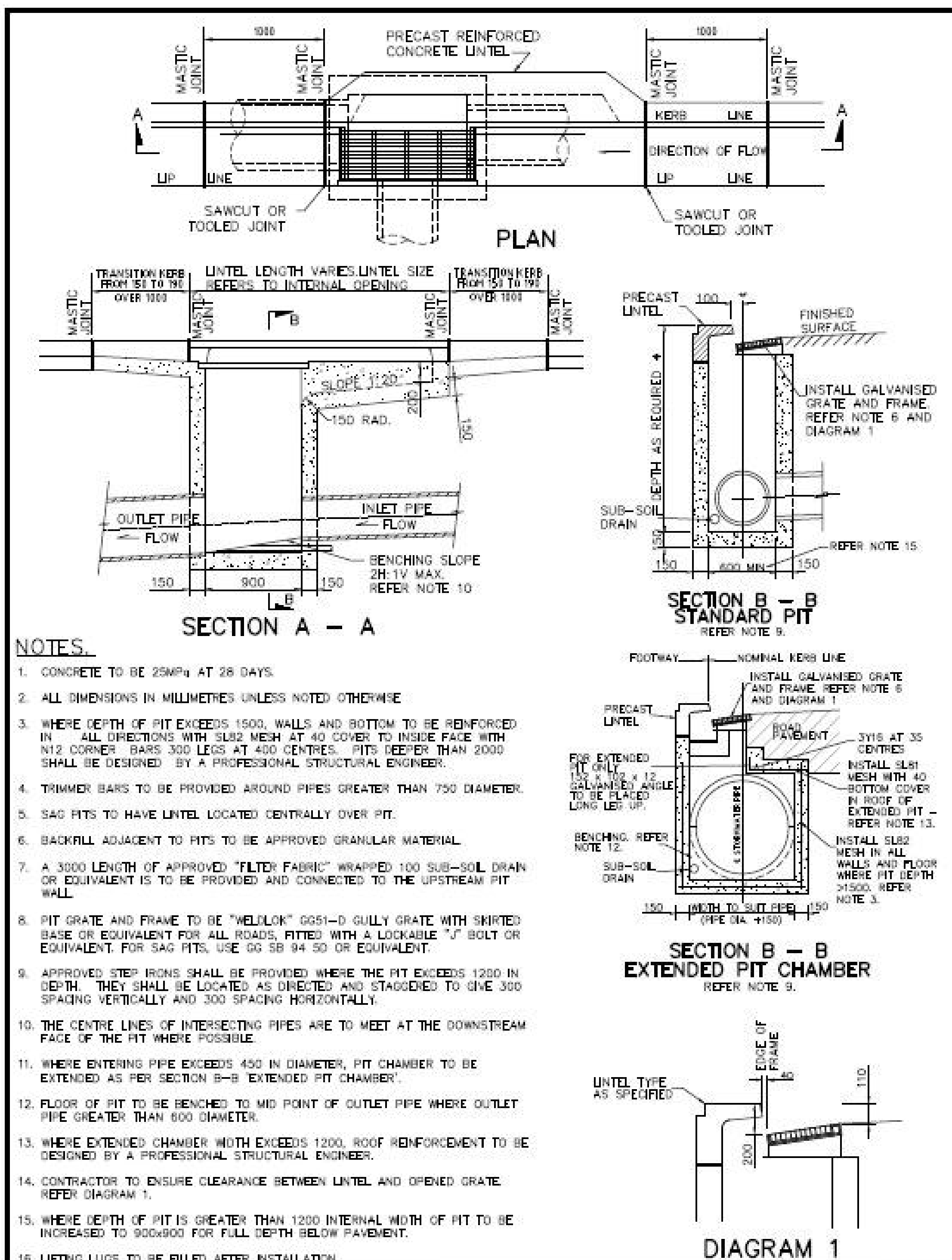
Grid	Datum	Sheet	Scale (at original size)
-	A.H.D.	9 of 9	1:200 @ A1

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

HGL ANALYSIS & LONG SECTION

Project No	Drawing No	Revision No
20190239	SW501	A



DRAWN:
E. LAWTON

PENRITH
CITY COUNCIL

KERB INLET PIT

APPROVED:

PLAN No:
SD2001

COUNCIL STANDARD KERB INLET PIT DETAIL