

PRELIMINARY

# PROPOSED RESIDENTIAL DEVELOPMENT 96-98 LETHBRIDGE STREET & 42-46 EVAN STREET, PENRITH STORMWATER CONCEPT DESIGN



LOCALITY PLAN  
NOT TO SCALE  
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ARCHITECT:



CLIENT:

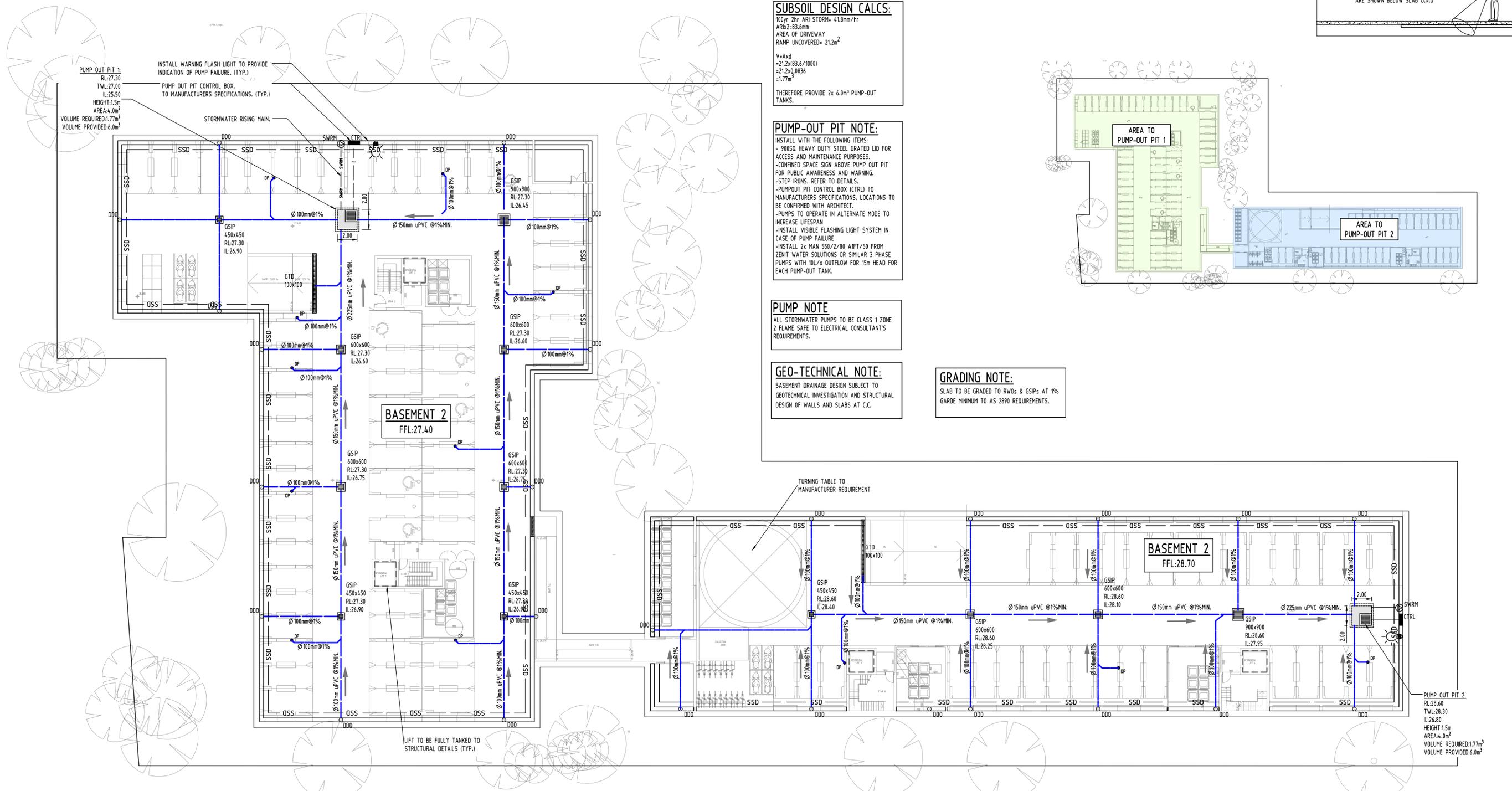
URBAN LINK PTY LTD

DRAWINGS LIST			
SHEET No.	DWG No.	TITLE	REV
1	SW100	COVER SHEET	B
2	SW200	STORMWATER CONCEPT DESIGN - BASEMENT 2 PLAN	B
3	SW201	STORMWATER CONCEPT DESIGN - BASEMENT 1 PLAN	B
4	SW202	STORMWATER CONCEPT DESIGN - GROUND FLOOR PLAN	B
5	SW203	STORMWATER CONCEPT DESIGN - ROOF PLAN	B
6	SW300	STORMWATER CONCEPT DESIGN - DETAILS SHEET - SHEET 1 OF 2	B
7	SW301	STORMWATER CONCEPT DESIGN - DETAILS SHEET - SHEET 2 OF 2	B
8	SW400	EROSION AND SEDIMENT CONTROL - PLAN AND DETAILS	B
9	SW500	STORMWATER CONCEPT DESIGN - MUSIC CATCHMENT PLAN AND RESULT	B



PREPARED BY:

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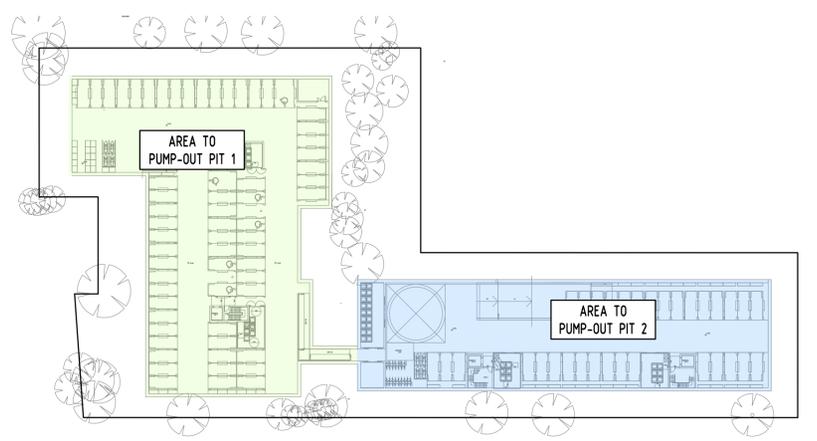
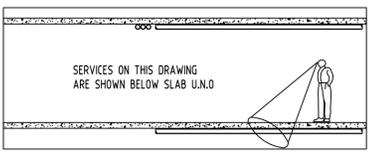
**SUBSOIL DESIGN CALCS:**  
 100yr 2hr ARI STORM: 4.8mm/hr  
 ARHx=83.6mm  
 AREA OF DRIVEWAY  
 RAMP UNCOVERED: 21.2m<sup>2</sup>  
 V=Axd  
 =21.2x(83.6/1000)  
 =1.77m<sup>3</sup>  
 THEREFORE PROVIDE 2x 6.0m<sup>3</sup> PUMP-OUT TANKS.

**PUMP-OUT PIT NOTE:**  
 INSTALL WITH THE FOLLOWING ITEMS:  
 - 900SD 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.  
 - PUMP-OUT 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  
 - INSTALL 2x MAN 550/2/80 A1P/50 FROM ZENIT WATER SOLUTIONS OR SIMILAR 3 PHASE PUMPS WITH 1HL/S OUTFLOW FOR 15m HEAD FOR EACH PUMP-OUT TANK.

**PUMP NOTE**  
 ALL STORMWATER PUMPS TO BE CLASS 1 ZONE 2 FLAME SAFE TO ELECTRICAL CONSULTANT'S REQUIREMENTS.

**GEO-TECHNICAL NOTE:**  
 BASEMENT DRAINAGE DESIGN SUBJECT TO GEOTECHNICAL INVESTIGATION AND STRUCTURAL DESIGN OF WALLS AND SLABS AT C.C.

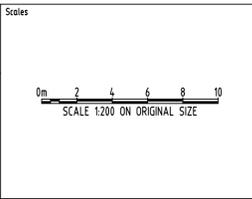
**GRADING NOTE:**  
 SLAB TO BE GRADED TO RWOS & GSIPs AT 1% GARDE MINIMUM TO AS 2890 REQUIREMENTS.



Reference Coordination Drawing			
Discipline	Drawing Title and Number	Date	Rev.
ARCH			
ARCH			
STRUCT			
MN	03.09.20	1	
MN	03.12.20	2	
MN	20.11.20	1	
AA	09.03.20	1	
HYD			
FREE			
LANDS			
CIVIL			
SURVEY			

QUALITY CONTROL			
DRAWN	DATE	CHECKED	DATE
MN	03.09.20	SH	03.09.20
MN	03.09.20	SH	03.09.20
SH	03.09.20	SH	03.09.20
SH	03.09.20	SH	03.09.20

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ARCHITECT  
 URBAN LINK ARCHITECTURE

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 Engineering Value

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PROJECT  
 PROPOSED RESIDENTIAL DEVELOPMENT  
 96-98 LETHBRIDGE STREET &  
 42-46 EVAN STREET, PENRITH

Drawing Status	PRELIMINARY
NOT TO BE USED FOR CONSTRUCTION PURPOSES	
Drawing Title	STORMWATER CONCEPT DESIGN BASEMENT 2 PLAN
Project No	20200222
Drawing No	SW200
Revision No	B

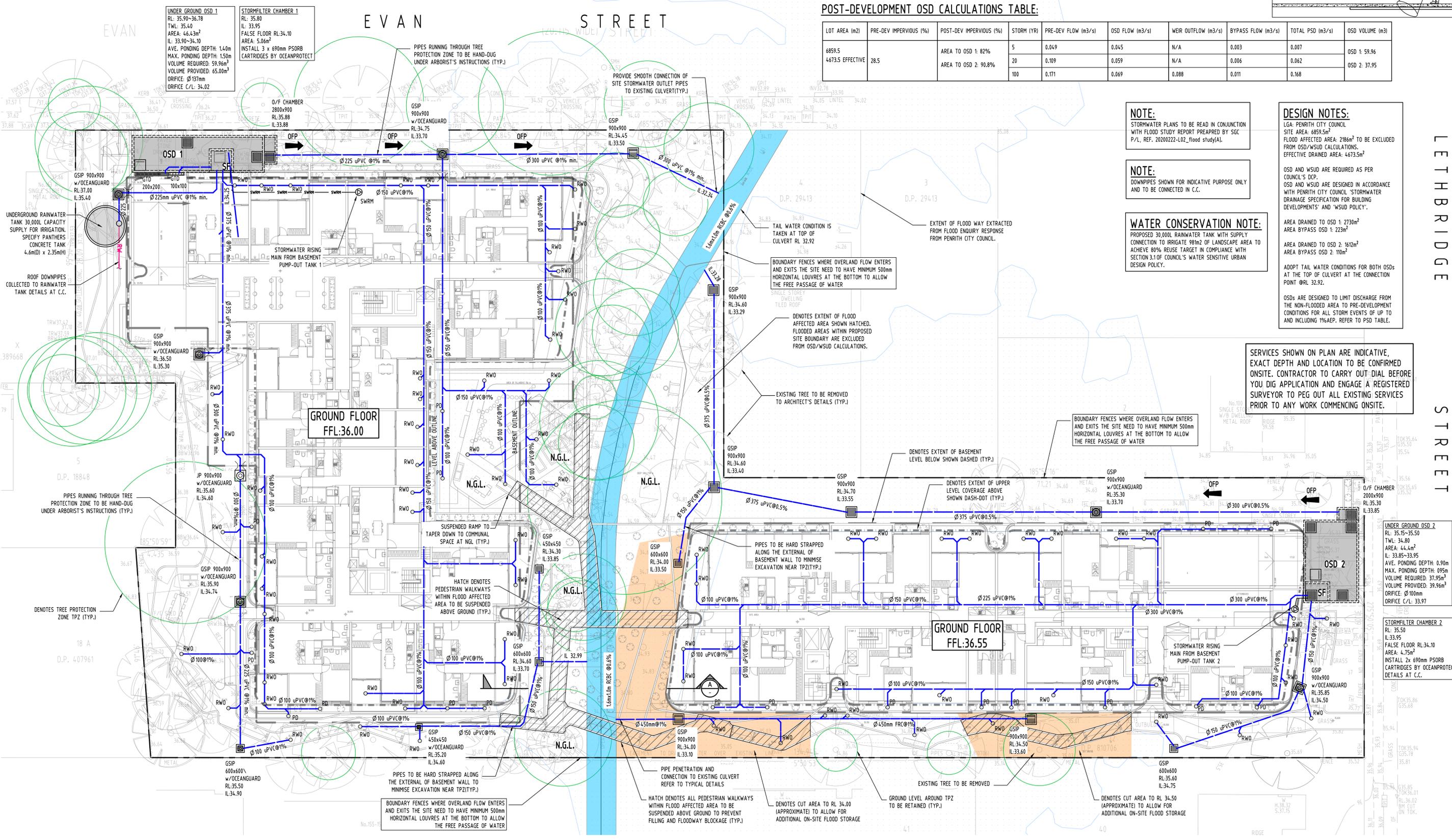


DATE PLOTTED: 3 September 2021 6:5 PM BY: SSC/EM/CO

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

POST-DEVELOPMENT OSD CALCULATIONS TABLE:

LOT AREA (m2)	PRE-DEV IMPERVIOUS (%)	POST-DEV IMPERVIOUS (%)	STORM (YR)	PRE-DEV FLOW (m3/s)	OSD FLOW (m3/s)	WEIR OUTFLOW (m3/s)	BYPASS FLOW (m3/s)	TOTAL PSD (m3/s)	OSD VOLUME (m3)
6859.5	28.5	AREA TO OSD 1: 82%	5	0.049	0.045	N/A	0.003	0.007	OSD 1: 59.96
4673.5 EFFECTIVE		AREA TO OSD 2: 90.8%	20	0.109	0.059	N/A	0.006	0.062	OSD 2: 37.95
			100	0.171	0.069	0.088	0.011	0.168	



**NOTE:**  
STORMWATER PLANS TO BE READ IN CONJUNCTION WITH FLOOD STUDY REPORT PREPARED BY SGC P/L, REF. 20200222-L02\_flood study(A).

**NOTE:**  
DOWNPIPES SHOWN FOR INDICATIVE PURPOSE ONLY AND TO BE CONNECTED IN C.C.

**WATER CONSERVATION NOTE:**  
PROPOSED 30,000L RAINWATER TANK WITH SUPPLY CONNECTION TO IRRIGATE 98m2 OF LANDSCAPE AREA TO ACHIEVE 80% REUSE TARGET IN COMPLIANCE WITH SECTION 3.1 OF COUNCIL'S WATER SENSITIVE URBAN DESIGN POLICY.

**DESIGN NOTES:**  
LGA: PENRITH CITY COUNCIL  
SITE AREA: 6859.5m<sup>2</sup>  
FLOOD AFFECTED AREA: 2186m<sup>2</sup> TO BE EXCLUDED FROM OSD/WSUD CALCULATIONS.  
EFFECTIVE DRAINED AREA: 4673.5m<sup>2</sup>

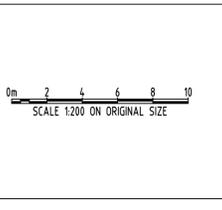
OSD AND WSUD ARE REQUIRED AS PER COUNCIL'S DCP.  
OSD AND WSUD ARE DESIGNED IN ACCORDANCE WITH PENRITH CITY COUNCIL 'STORMWATER DRAINAGE SPECIFICATION FOR BUILDING DEVELOPMENTS' AND 'WSUD POLICY'.  
AREA DRAINED TO OSD 1: 2730m<sup>2</sup>  
AREA DRAINED TO OSD 2: 1612m<sup>2</sup>  
AREA BYPASS OSD 2: 110m<sup>2</sup>  
ADOPT TAIL WATER CONDITIONS FOR BOTH OSDs AT THE TOP OF CULVERT AT THE CONNECTION POINT @ RL 32.92.  
OSDs ARE DESIGNED TO LIMIT DISCHARGE FROM THE NON-FLOODED AREA TO PRE-DEVELOPMENT CONDITIONS FOR ALL STORM EVENTS OF UP TO AND INCLUDING 1% AEP. REFER TO PSD TABLE.

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.

Issue	Last revision title	by	Date	Status
B	PRELIMINARY ISSUE	MN	03.09.20	1
A	PRELIMINARY ISSUE	MN	03.12.20	2
P2	PRELIMINARY ISSUE	MN	20.11.20	1
P1	PRELIMINARY ISSUE	AA	09.03.20	1

Disipline	Drawing Title and Number	Date	Rev.
ASCH			
ASCH			
STRUCT			
MECH			
ELEC			
HYD			
FRG			
LANDS			
CIVIL			
SURVEY			

QUALITY CONTROL	DATE	BY
DRAWN	03.09.20	MN
CHECKED	03.09.20	SH
DESIGNED	03.09.20	MN
VERIFIED	03.09.20	SH
APPROVED	03.09.20	SH



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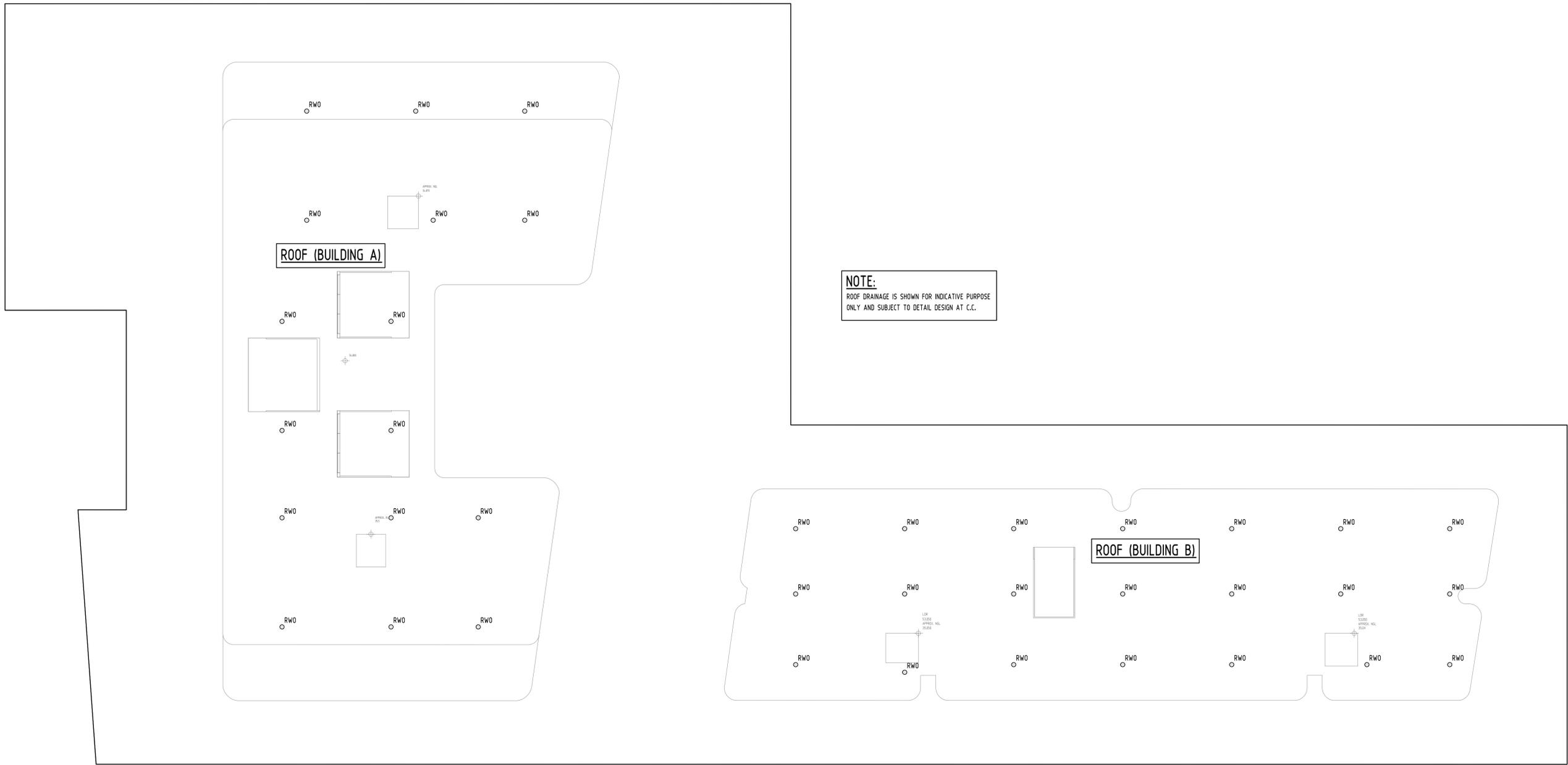


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PROJECT  
PROPOSED RESIDENTIAL DEVELOPMENT  
96-98 LETHBRIDGE STREET &  
42-46 EVAN STREET, PENRITH

Drawing Status	PRELIMINARY
NOT TO BE USED FOR CONSTRUCTION PURPOSES	
Drawing Title	STORMWATER CONCEPT DESIGN GROUND FLOOR PLAN
Project No	20200222
Drawing No	SW202
Revision No	B

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

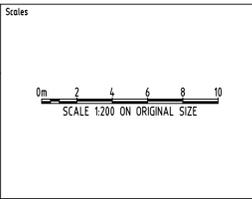



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Reference Coordination Drawing			
Discipline	Drawing Title and Number	Date	Rev.
ARCH			
ARCH			
STRUCT			
MEEH			
ELEC			
HYD			
FIRE			
LANDS			
CIVIL			
SURVEY			

QUALITY CONTROL			
DRAWN	DATE	CHECKED	DATE
MN	03.09.20	SH	03.09.20
MN	03.09.20	MN	03.09.20
SH	03.09.20	SH	03.09.20
SH	03.09.20	SH	03.09.20

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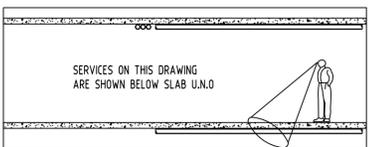
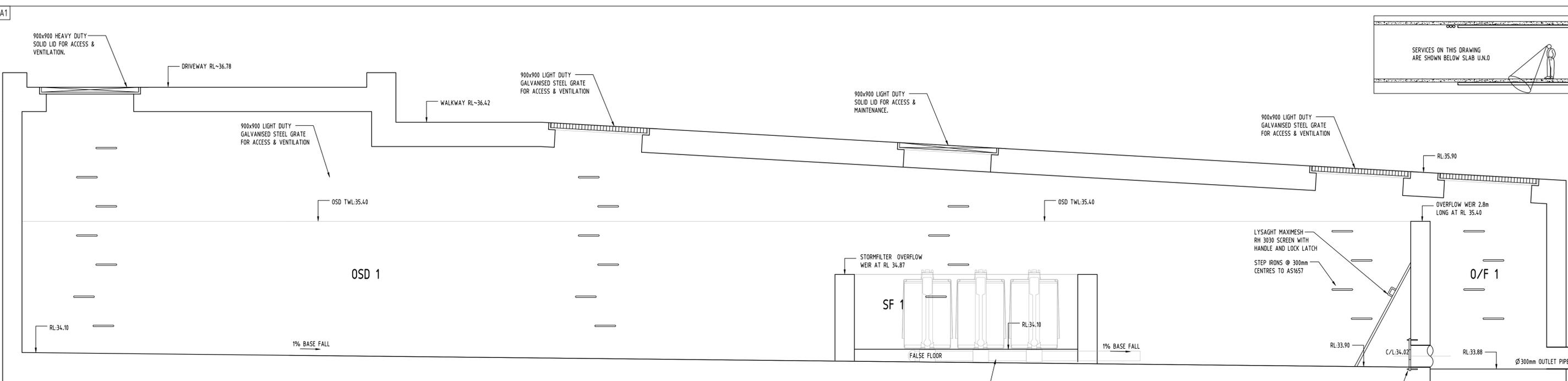
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PROJECT  
**PROPOSED RESIDENTIAL DEVELOPMENT**  
96-98 LETHBRIDGE STREET &  
42-46 EVAN STREET, PENRITH

Drawing Status <b>PRELIMINARY</b> NOT TO BE USED FOR CONSTRUCTION PURPOSES		
Drawing Title <b>STORMWATER CONCEPT DESIGN ROOF PLAN</b>		
Project No <b>20200222</b>	Drawing No <b>SW203</b>	Revision No <b>B</b>
Grid	Datum	Sheet
-	A.H.D.	5 OF 9
Scale (at original size) 1:200 @ A1		

DATE PLOTTED: 3 September 2021 6:5 PM BY: SSCERMACIO

2021 File Path: Production\2020\2020222\_4246\_Evan Street, Penrith\Civil\SW300.dwg

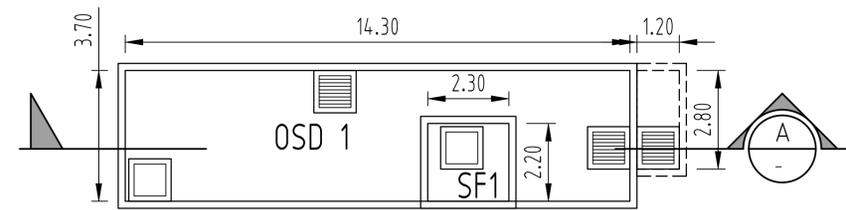


**A** SECTION  
OSD TANK 1  
SCALE 1:20

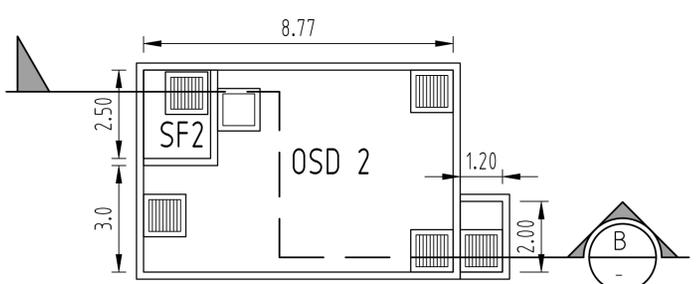
INSTALL 3 x 690mm PSORB STORMFILTER CARTRIDGES BY OCEANPROTECT.

TANK WALLS & SLABS TO STRUCTURAL ENGINEERS DETAILS AT C.C. STAGE

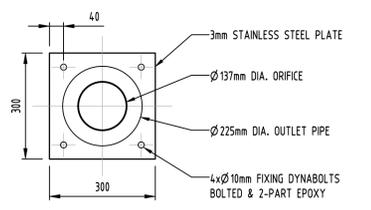
ORIFICE PLATE (REFER DETAIL 1)



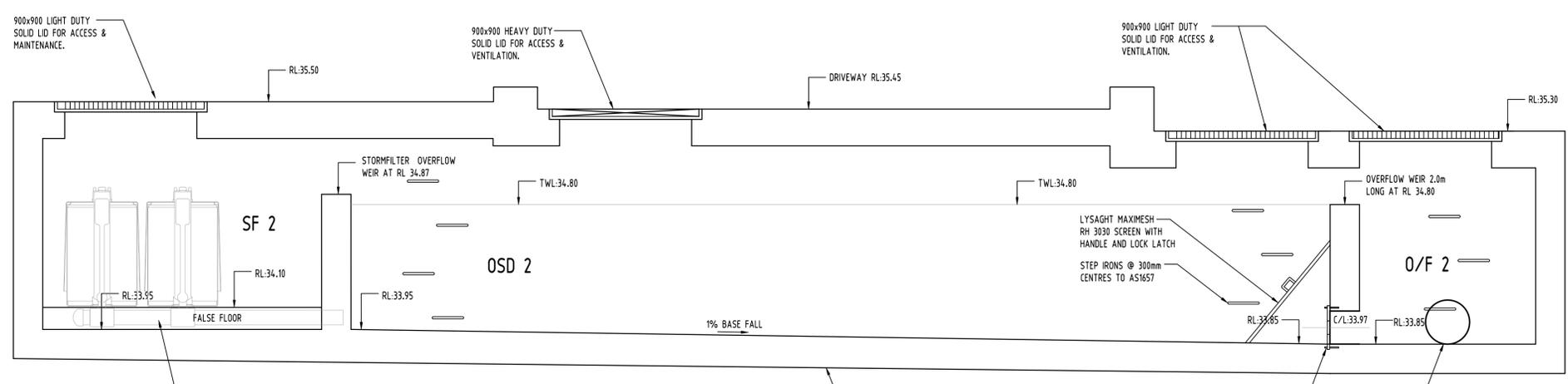
PLAN VIEW - OSD TANK 1  
SCALE 1:100



PLAN VIEW - OSD TANK 2  
SCALE 1:100



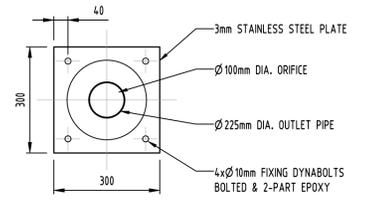
ORIFICE PLATE 1  
SCALE 1:10



**B** SECTION  
OSD TANK 2  
SCALE 1:20

TANK WALLS & SLABS TO STRUCTURAL ENGINEERS DETAILS AT C.C. STAGE

ORIFICE PLATE (REFER DETAIL 2)

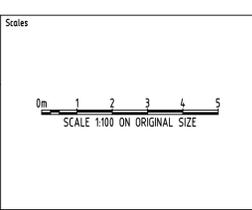


ORIFICE PLATE 2  
SCALE 1:10

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

QUALITY CONTROL			
DRAWN	DATE	CHECKED	DATE
MN	03.09.20	SH	03.09.20
MN	03.09.20	SH	03.09.20
MN	03.09.20	SH	03.09.20
SH	03.09.20	SH	03.09.20

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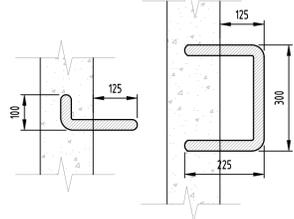
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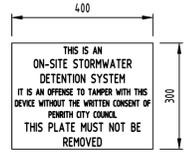
A.B.N. 21 118 222 530

PROJECT  
PROPOSED RESIDENTIAL DEVELOPMENT  
96-98 LETHBRIDGE STREET &  
42-46 EVAN STREET, PENRITH

Drawing Status	PRELIMINARY
Drawing Title	NOT TO BE USED FOR CONSTRUCTION PURPOSES
Drawing Title	STORMWATER CONCEPT DESIGN DETAILS SHEET
Sheet	1 OF 2
Project No	20200222
Drawing No	SW300
Revision No	B



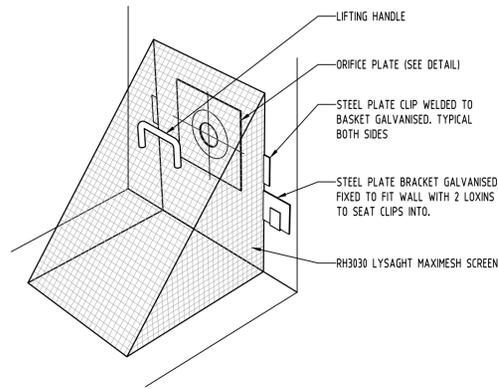
**STEP IRONS**  
SCALE 1:10



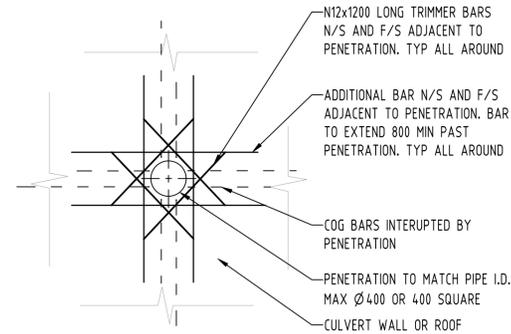
**OSD SIGN**  
SCALE 1:10



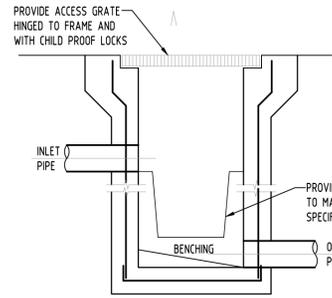
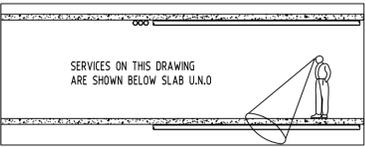
**CONFINED SPACE SIGN**  
SCALE 1:10



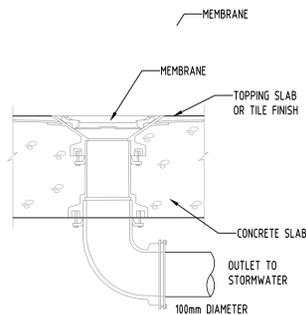
**DEBRIS SCREEN**  
NTS



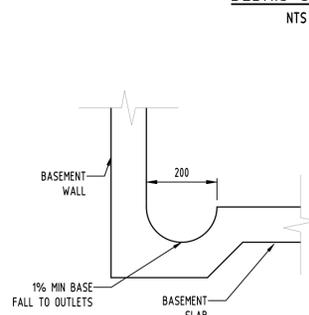
**DETAIL**  
TYPICAL PIPE PENETRATION THROUGH CULVERT  
NOT TO SCALE



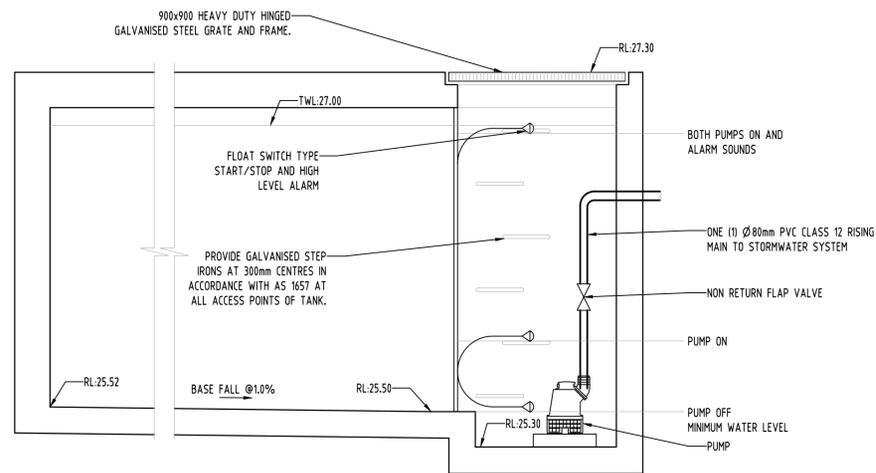
**DETAIL**  
STORMWATER PIT WITH OCEANGUARD BASKET  
SCALE 1:20



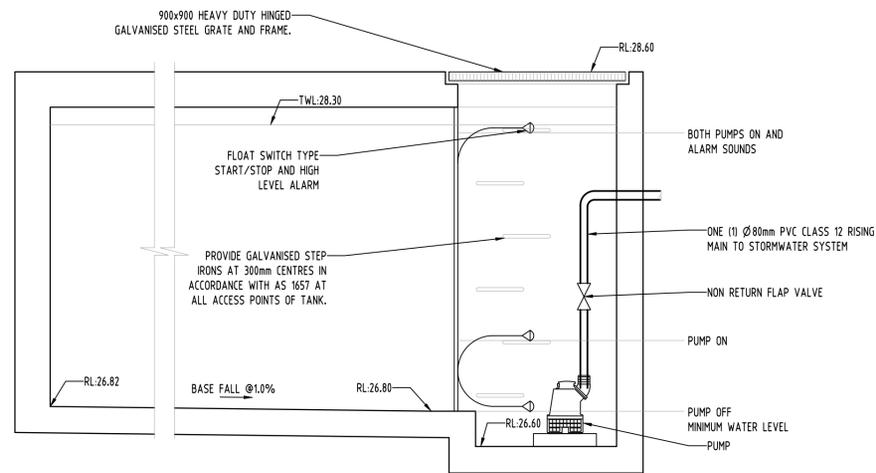
**RAINWATER OUTLET**  
NTS



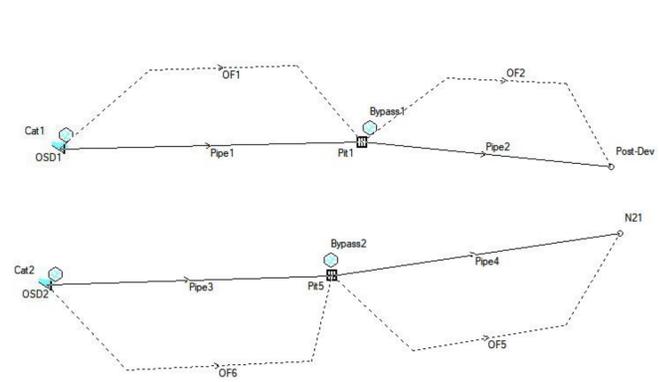
**DISH DRAIN**  
SCALE 1:10



**SUBSOIL PUMP OUT PIT 1**  
SCALE 1:20

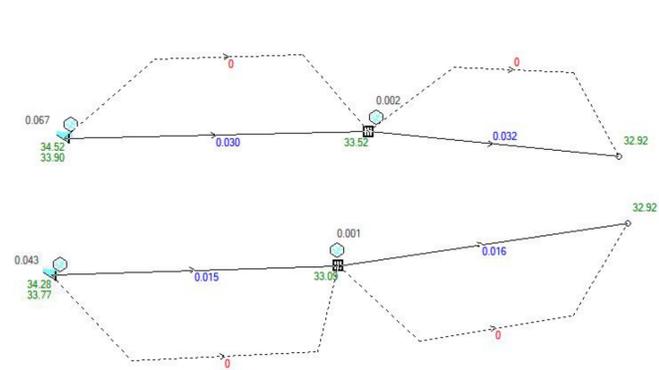


**SUBSOIL PUMP OUT PIT 2**  
SCALE 1:20



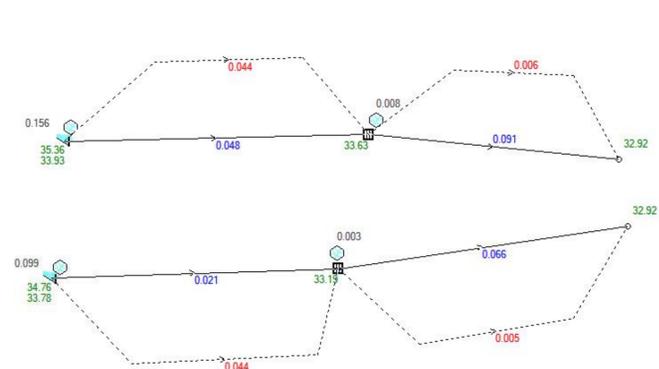
**DRAINS MODEL**

Results for median storm in critical 20% AEP ensembles using Standard hydraulic model.

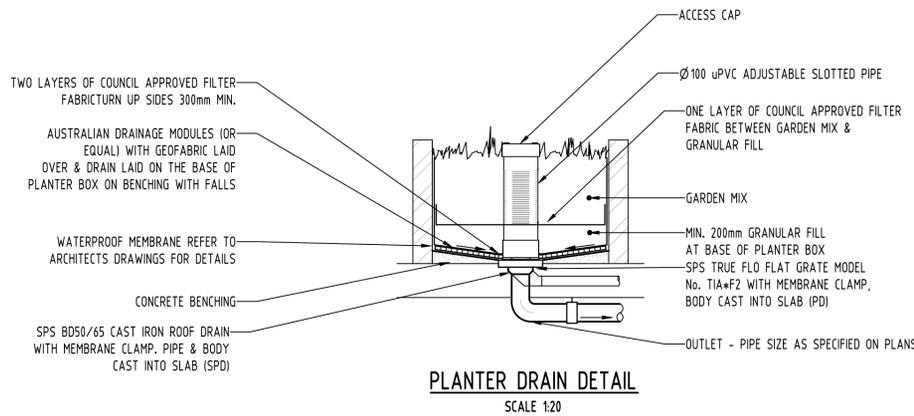


**DRAINS RESULT - 20% AEP**

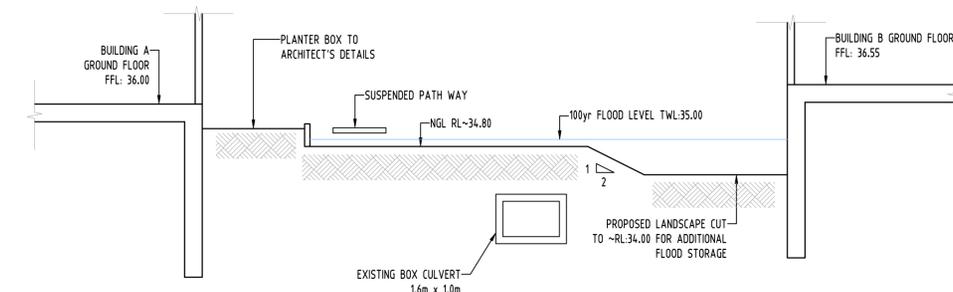
Results for median storm in critical 1% AEP ensembles using Standard hydraulic model.



**DRAINS RESULT - 1% AEP**



**PLANTER DRAIN DETAIL**  
SCALE 1:20

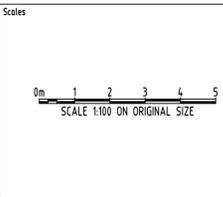


**SECTION**  
SW202 SCALE 1:100

Reference Coordination Drawing			
Discipline	Drawing Title and Number	Date	Rev.
ARCH			
ARCH			
MN	03.09.20	1	
MN	03.12.20	2	
MN	20.11.20	1	
AA	09.03.20	1	
by	Date	Status	
<b>Issuer internal sequence and revision history</b>			
1-preliminary	2-development application	3-construction certificate	4-tender
5-construction	6-other		

QUALITY CONTROL			
DRAWN	MN	DATE	03.09.20
CHECKED	SH <td>DATE</td> <td>03.09.20</td>	DATE	03.09.20
DESIGNED	MN <td>DATE</td> <td>03.09.20</td>	DATE	03.09.20
VERIFIED	SH <td>DATE</td> <td>03.09.20</td>	DATE	03.09.20
APPROVED	SH <td>DATE</td> <td>03.09.20</td>	DATE	03.09.20

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CLIENT  
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ARCHITECT  
**URBAN LINK ARCHITECTURE**

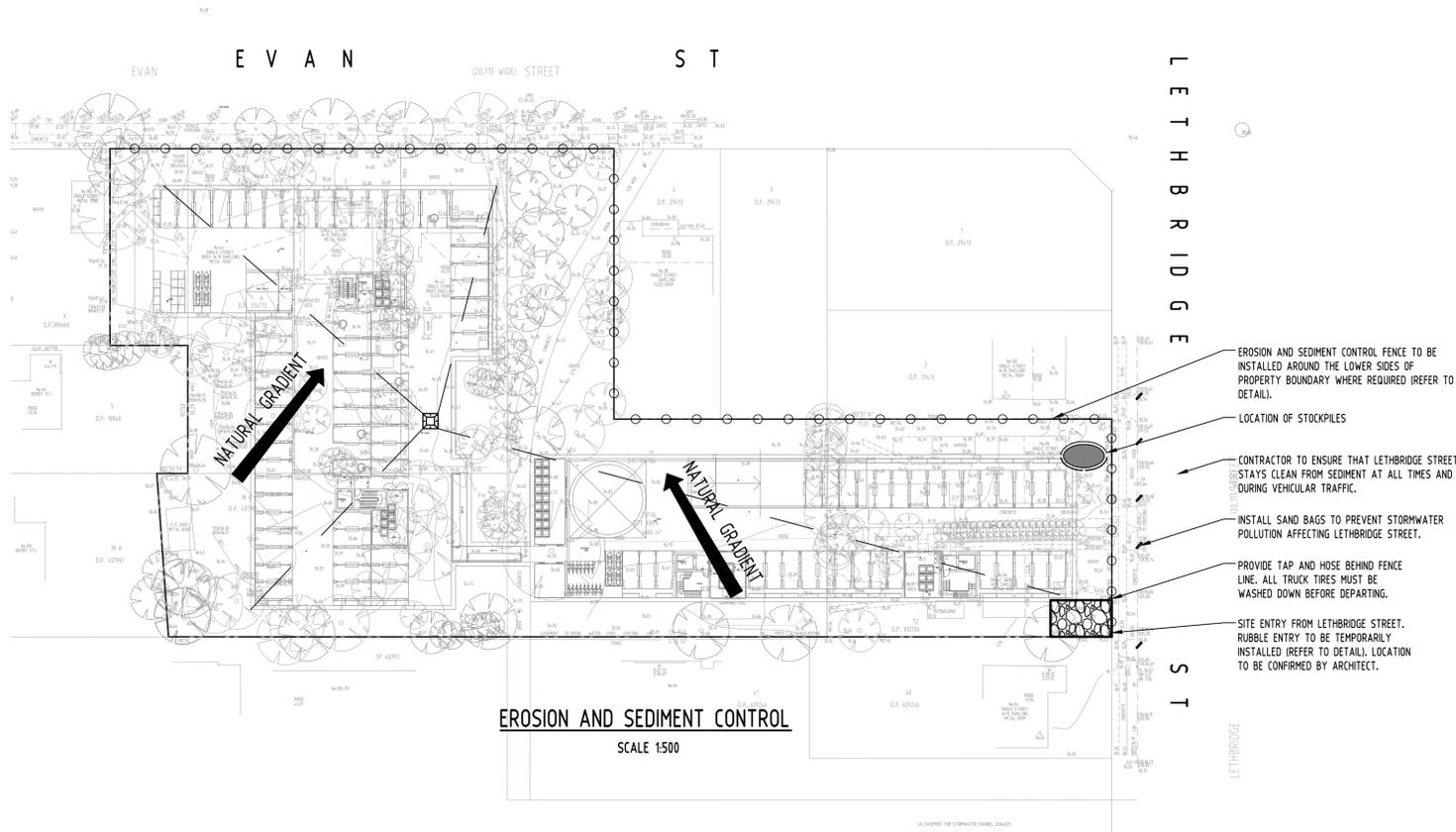


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Web: www.sgce.com.au

PROJECT  
**PROPOSED RESIDENTIAL DEVELOPMENT**  
96-98 LETHBRIDGE STREET &  
42-46 EVAN STREET, PENRITH

Drawing Status	PRELIMINARY
Drawing Title	NOT TO BE USED FOR CONSTRUCTION PURPOSES
<b>STORMWATER CONCEPT DESIGN DETAILS SHEET</b>	
2 OF 2	
Project No	20200222
Drawing No	SW301
Revision No	B

DATE PLOTTED: 3 September 2021 4:5 PM BY: SSC/EM/CO  
 A1  
 PROJECT: E:\Production\2020\2020222\_42-46 Evan Street - Penrith\Civil\SW400.dwg  
 2021-09-03 10:00:00  
 Document Set ID: 9751327  
 Version: 1, Version Date: 29/09/2021



**EROSION AND SEDIMENT CONTROL**  
SCALE 1500

**EROSION & SEDIMENTATION CONTROL NOTES**

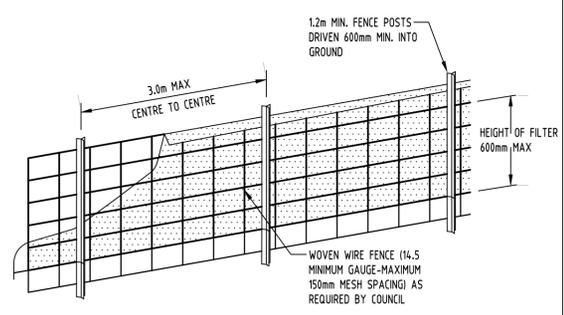
- CONTRACTOR SHALL PROVIDE SEDIMENT FENCING MATERIAL DURING CONSTRUCTION TO THE LOW SIDE OF THE WORKS. THE SEDIMENT FENCING MATERIAL TO CYCLONE WIRE SECURITY FENCE. SEDIMENT CONTROL FABRIC SHALL BE AN APPROVED MATERIAL (EG. HUMES PROPEX SILT STOP) STANDING 300mm ABOVE GROUND & EXTENDING 150mm BELOW GROUND.
- 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**

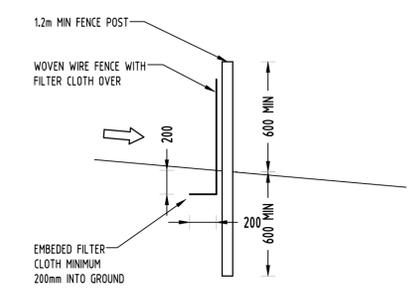
- THIS PLAN IS A CONCEPT PLAN ONLY FOR STORMWATER DISPOSAL & EROSION CONTROL. IT IS NOT SUITABLE FOR CONSTRUCTION. THIS PLAN SHOULD BE ADAPTED BY THE BUILDER DURING DEMOLITION, EXCAVATION & CONSTRUCTION PHASES TO ENSURE ADEQUATE PERFORMANCE.
- ALL DRAINAGE LAYOUT & DETAILS ARE DIAGRAMMATIC & INDICATIVE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

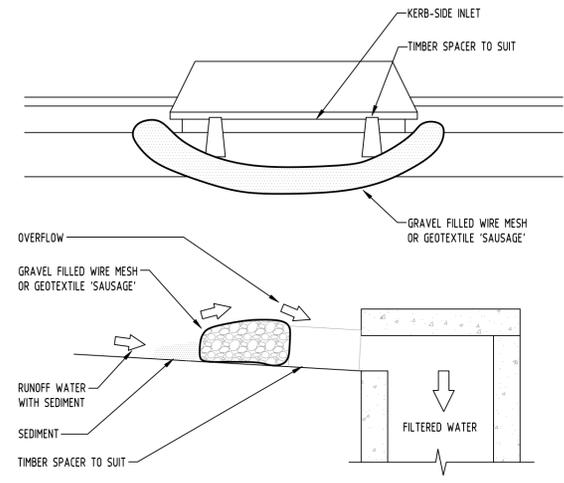


TYPICAL SECTION

**SEDIMENT FENCE**  
NOT TO SCALE

**GEOTEXTILE INLET FILTER**

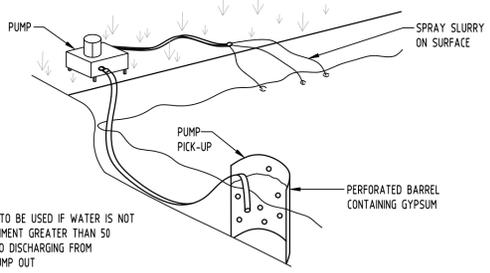
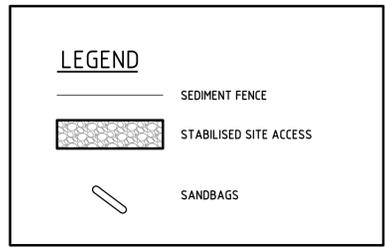
GEOTEXTILE INLET FILTER IS PLACED IN EVERY PIT WITHIN THE SITE TO ENSURE THE RUNOFF WATER DURING CONSTRUCTION NOT ENTER THE PITS.



**CONSTRUCTION NOTES:**

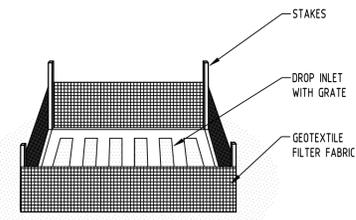
- FABRICATE A SLEEVE MADE FROM GEOTEXTILE OR WIRE MESH LONGER THAN THE LENGTH OF THE INLET PIT
- FILL THE SLEEVE WITH 25mm TO 50mm GRAVEL
- FORM AN ELLIPTICAL CROSS-SECTION OF THE KERB INLET LEAVING A 100mm GAP AT THE TOP TO ACT AS AN EMERGENCY SPILLWAY
- MAINTAIN THE OPENING WITH SPACER BLOCKS
- FORM 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

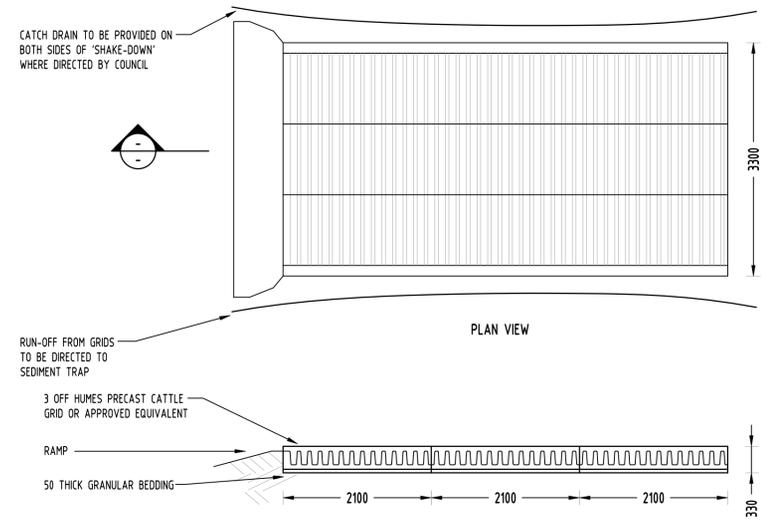
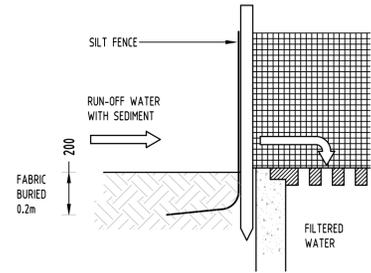


- NOTE:**
- FLOCCULATION TO BE USED IF WATER IS NOT CLEAR (ie. SEDIMENT GREATER THAN 50 mg/L) PRIOR TO DISCHARGING FROM TEMPORARY PUMP OUT
  - FOR RATES & AGENTS SEE APPENDIX E OF NEW SOUTH WALES DEPARTMENT OF HOUSING "MANAGING URBAN STORMWATER SOILS & CONSTRUCTION".

**FLOCCULATION DETAIL**  
NOT TO SCALE



**GEOTEXTILE INLET FILTER**  
NOT TO SCALE

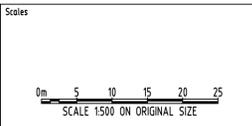


**'CATTLE GRID' ALTERNATIVE**  
TEMPORARY CONSTRUCTION EXIT  
NOT TO SCALE

Reference Coordination Drawing		Discipline	Drawing Title and Number	Date	Rev.
B	PRELIMINARY ISSUE	MN	03.09.20	1	STRUCT
A	PRELIMINARY ISSUE	MN	03.12.20	2	MECH
P2	PRELIMINARY ISSUE	MN	20.11.20	1	ELEC
P1	PRELIMINARY ISSUE	AA	09.03.20	1	HYD
Issue	Last revision title	by	Date	Status	FRG

QUALITY CONTROL		Discipline	Date
DRAWN	MN	DATE	03.09.20
CHECKED	SH	DATE	03.09.20
DESIGNED	MN	DATE	03.09.20
VERIFIED	SH	DATE	03.09.20
APPROVED	SH	DATE	03.09.20

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PROJECT  
**PROPOSED RESIDENTIAL DEVELOPMENT**  
96-98 LETHBRIDGE STREET &  
42-46 EVAN STREET, PENRITH

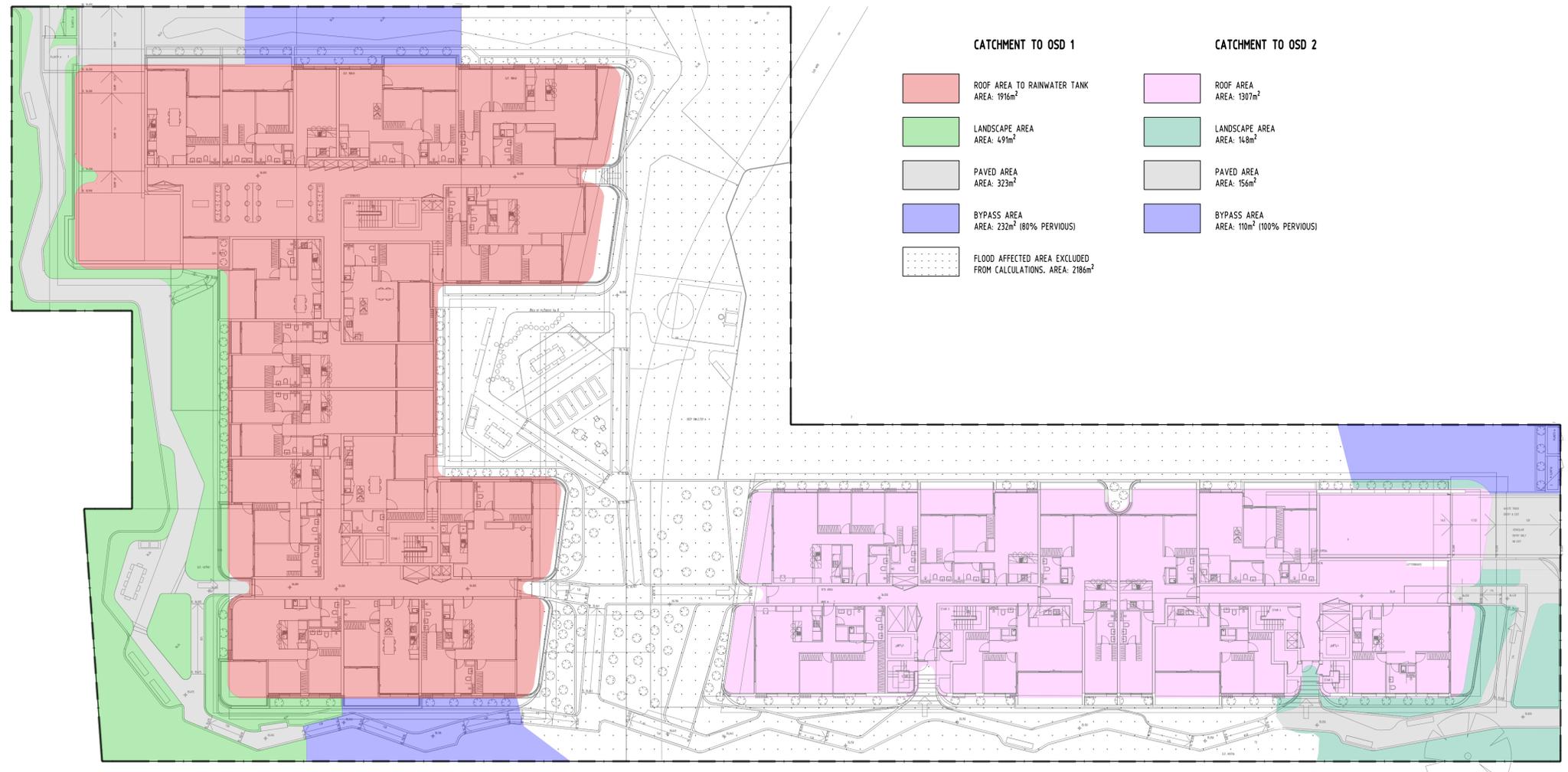
Drawing Status	PRELIMINARY
Drawing Title	NOT TO BE USED FOR CONSTRUCTION PURPOSES
<b>EROSION AND SEDIMENT CONTROL PLAN AND DETAILS</b>	
Project No	20200222
Drawing No	SW400
Revision No	B

Grid	Datum	Sheet	Scale (at original size)
-	A.H.D.	8 OF 9	1:500 @ A1

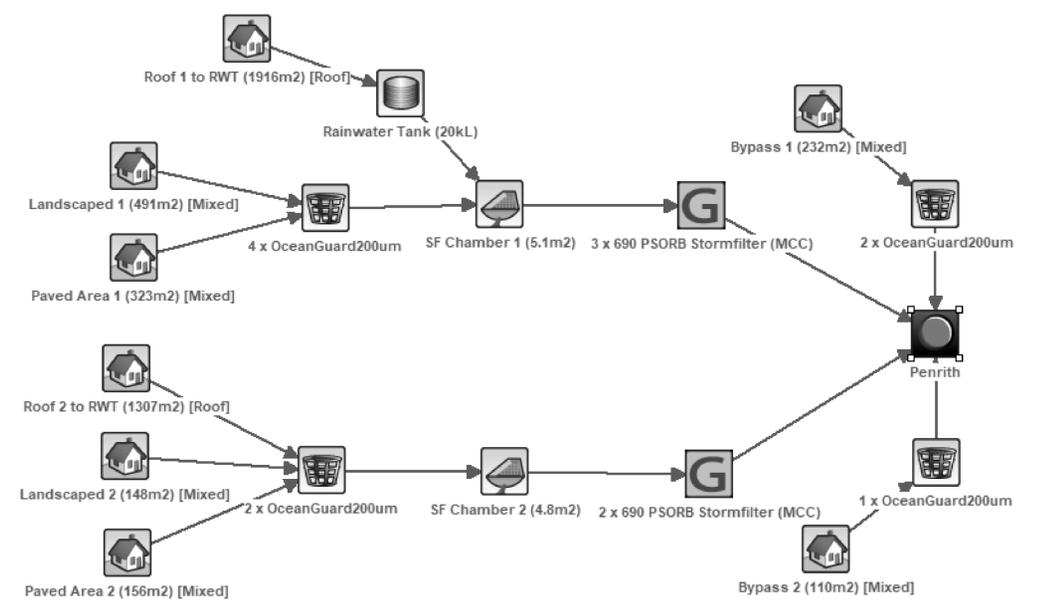
A.B.N. 21.118.222.530

DATE PLOTTED: 3 September 2021 6:5 PM BY: SSCEM/ACO A1

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



CATCHMENT TO OSD 1		CATCHMENT TO OSD 2	
<span style="color: red;">■</span>	ROOF AREA TO RAINWATER TANK AREA: 1916m <sup>2</sup>	<span style="color: magenta;">■</span>	ROOF AREA AREA: 1307m <sup>2</sup>
<span style="color: green;">■</span>	LANDSCAPE AREA AREA: 491m <sup>2</sup>	<span style="color: teal;">■</span>	LANDSCAPE AREA AREA: 148m <sup>2</sup>
<span style="color: grey;">■</span>	PAVED AREA AREA: 323m <sup>2</sup>	<span style="color: grey;">■</span>	PAVED AREA AREA: 156m <sup>2</sup>
<span style="color: blue;">■</span>	BYPASS AREA AREA: 232m <sup>2</sup> (100% PERVIOUS)	<span style="color: blue;">■</span>	BYPASS AREA AREA: 110m <sup>2</sup> (100% PERVIOUS)
<span style="border: 1px dotted black; display: inline-block; width: 10px; height: 10px;"></span>	FLOOD AFFECTED AREA EXCLUDED FROM CALCULATIONS. AREA: 2186m <sup>2</sup>		



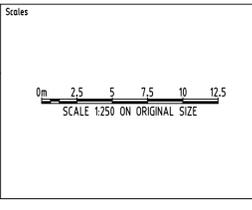
	Sources	Residual Load	% Reduction
Flow (ML/yr)	2.39	2.07	13.4
Total Suspended Solids (kg/yr)	115	14.1	87.8
Total Phosphorus (kg/yr)	0.411	0.111	73
Total Nitrogen (kg/yr)	5.22	2.34	55.1
Gross Pollutants (kg/yr)	65.9	0	100

	Flow (ML/yr)	TSS (kg/yr)	TP (kg/yr)	TN (kg/yr)	GP (kg/yr)
Flow In	1.18	31.05	0.18	2.57	33.59
ET Loss	0.00	0.00	0.00	0.00	0.00
Infiltration Loss	0.00	0.00	0.00	0.00	0.00
Low Flow Bypass Out	0.00	0.00	0.00	0.00	0.00
High Flow Bypass Out	0.00	0.00	0.00	0.00	0.00
Pipe Out	0.86	19.45	0.13	1.83	0.00
Weir Out	0.00	0.00	0.00	0.00	0.00
Transfer Function Out	0.00	0.00	0.00	0.00	0.00
Reuse Supplied	0.32	4.89	0.04	0.64	0.00
Reuse Requested	0.39	0.00	0.00	0.00	0.00
% Reuse Demand Met	82.05	0.00	0.00	0.00	0.00
% Load Reduction	27.04	37.34	29.36	28.85	100.00

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

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

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HYD			
FRS			
LANDS			
CIVIL			
SURVEY			



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PROJECT  
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42-46 EVAN STREET, PENRITH

Project No	Drawing No	Revision No
20200222	SW500	B