

221-291 CROWN ST, 216-238
KEIRA ST AND 86-90
BURELLI ST., WOLLONGONG
STORMWATER CONCEPT DESIGN (SSDA)



LOCALITY PLAN
NOT TO SCALE
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DRAWING INDEX			
SHEET No.	DWG. No.	DRAWING TITLE	REV.
01	S01-SW100	COVER SHEET & DRAWING INDEX	A
02	S01-SW201	EROSION & SEDIMENT CONTROL PLAN	A
03	S01-SW202	EROSION & SEDIMENT CONTROL DETAILS	A
04	S01-SW301	STORMWATER CONCEPT DESIGN BASEMENT 02 PLAN	A
05	S01-SW302	STORMWATER CONCEPT DESIGN BASEMENT 01 PLAN	A
06	S01-SW303	STORMWATER CONCEPT DESIGN MEZZANINE LEVEL PLAN	A
07	S01-SW304	STORMWATER CONCEPT DESIGN LOWER GROUND PLAN	A
08	S01-SW305	STORMWATER CONCEPT DESIGN ROOF PLAN	A
09	S01-SW401	STORMWATER CONCEPT DESIGN DETAILS SHEET 1 OF 2	A
10	S01-SW402	STORMWATER CONCEPT DESIGN DETAILS SHEET 2 OF 2	A
11	S01-SW501	STORMWATER CONCEPT DESIGN MUSIC CATCHMENT PLAN & RESULTS	A
12	S01-SW502	STORMWATER CONCEPT DESIGN CATCHMENT PLAN & DRAINS FLOW RESULTS	A

PREPARED BY



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ARCHITECT

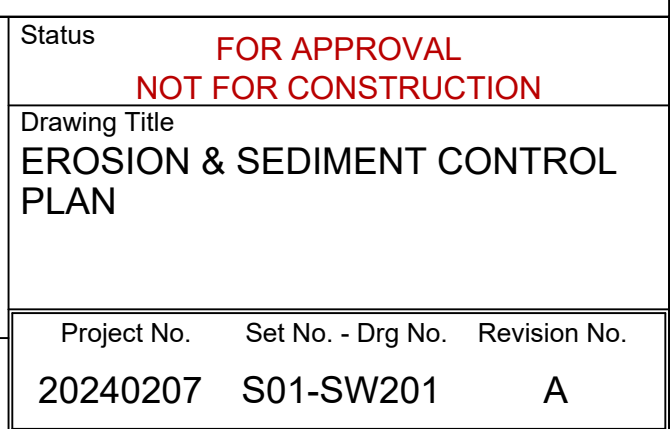
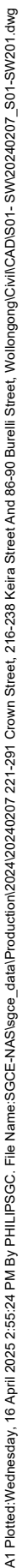


CLIENT

WOLLONGONG
DEVELOPMENTS NO 8
PTY LTD

LGA



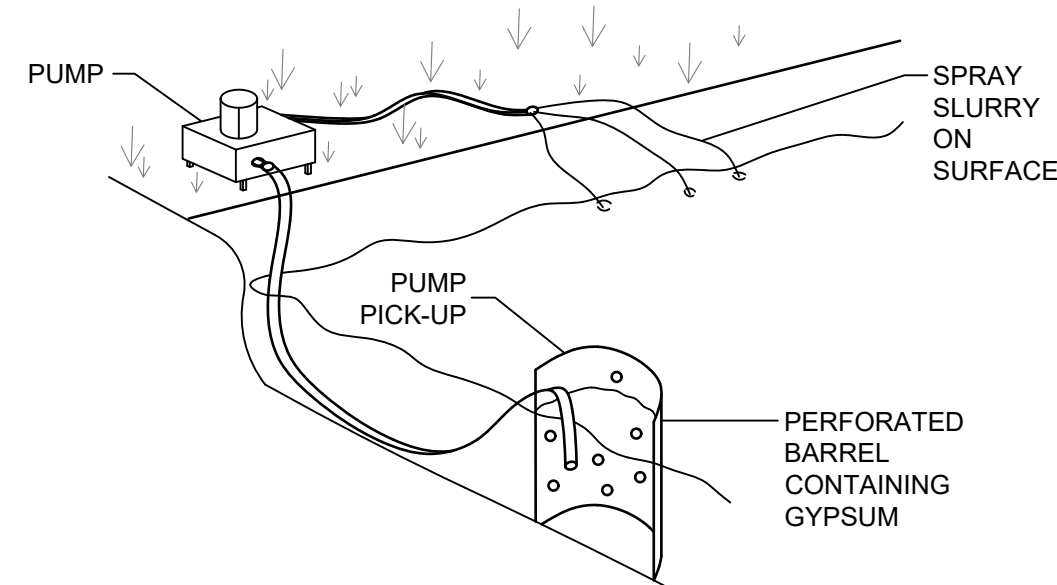


1. THIS PLAN IS A CONCEPT PLAN ONLY FOR STORMWATER DISPOSAL & EROSION CONTROL. IT IS NOT SUITABLE FOR CONSTRUCTION. THIS PLAN SHOULD BE ADAPTED BY THE BUILDER DURING DEMOLITION, EXCAVATION & CONSTRUCTION PHASES TO ENSURE ADEQUATE PERFORMANCE.
2. ALL DRAINAGE LAYOUT & DETAILS ARE DIAGRAMMATIC & INDICATIVE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

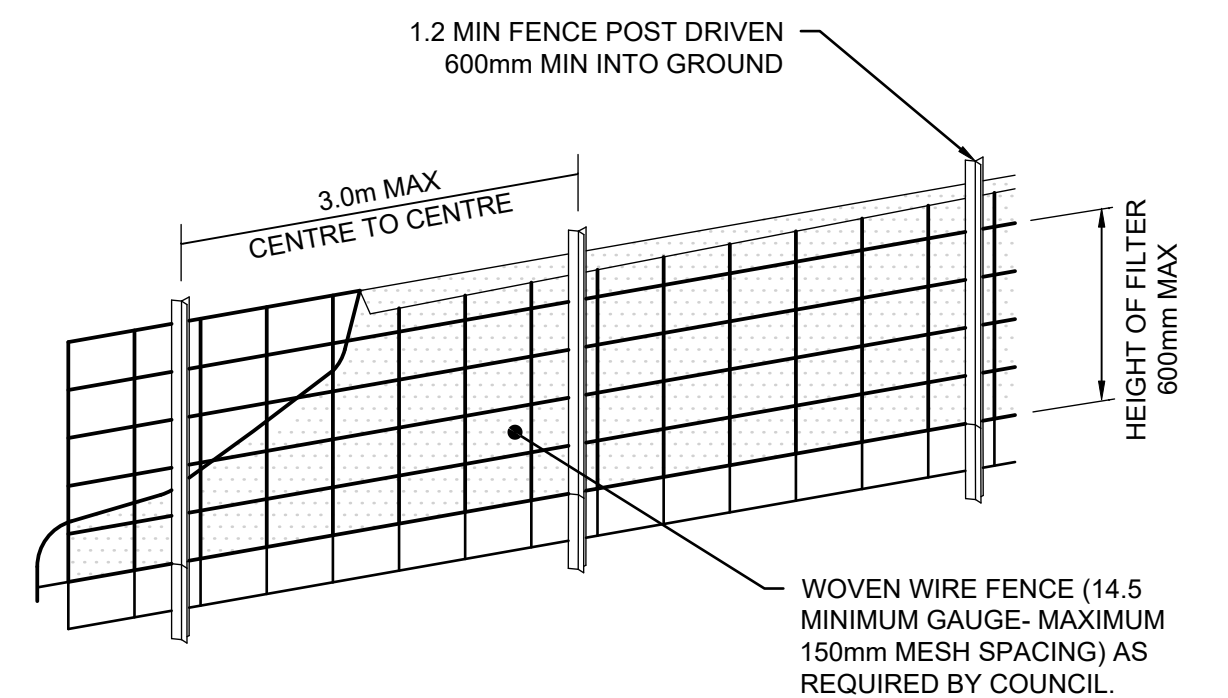
A SYSTEM SHALL BE INSTALLED TO EITHER:

1. 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.

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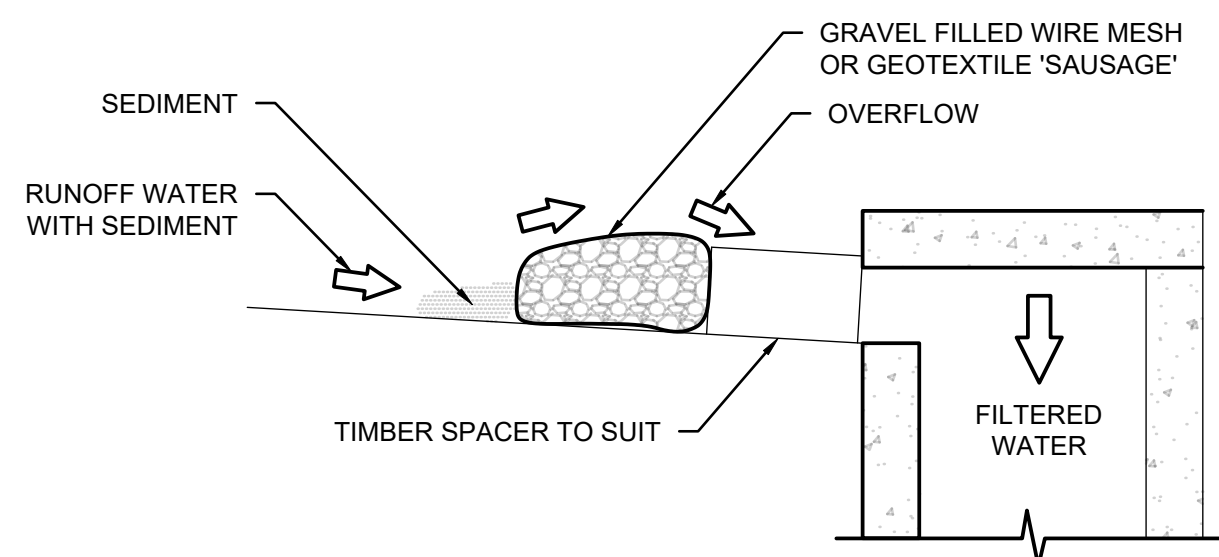


GEOTEXTILE INLET FILTER IS PLACED IN EVERY PIT WITHIN THE SITE TO ENSURE THE RUNOFF WATER DURING CONSTRUCTION NOT ENTER THE PITS.

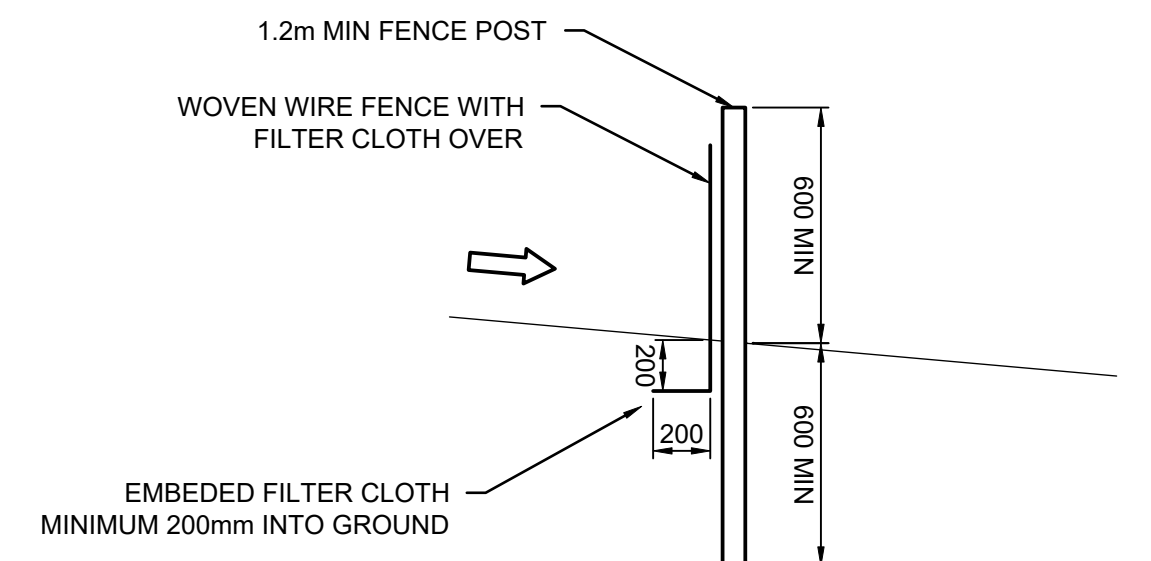
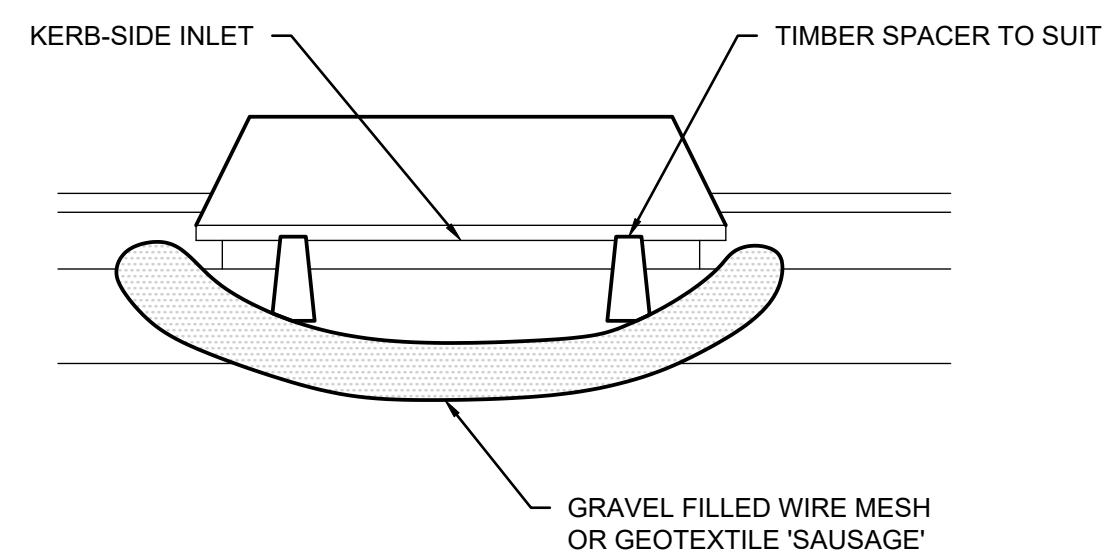


DIAGRAMMATIC VIEW

1. 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.
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.



NOT TO SCALE



TYPICAL SECTION

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

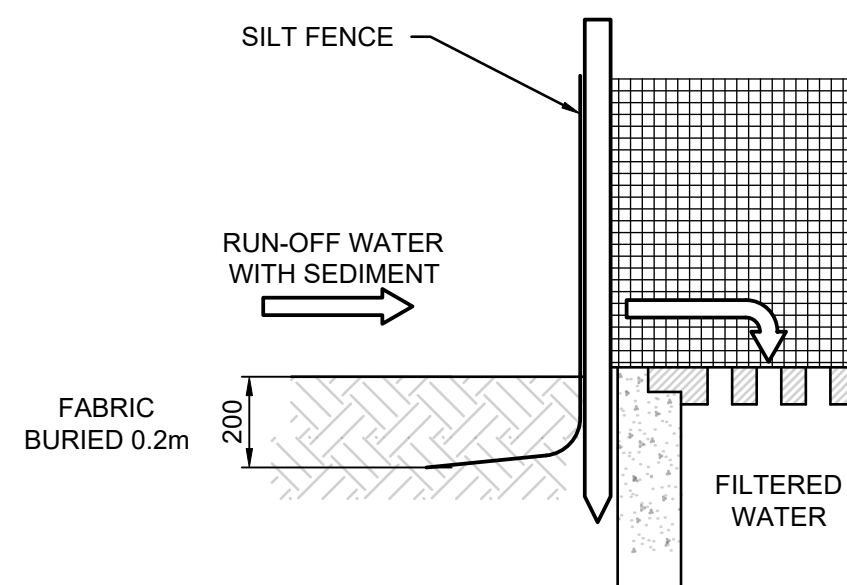
FILL THE SLEEVE WITH 25mm TO 50mm GRAVEL

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

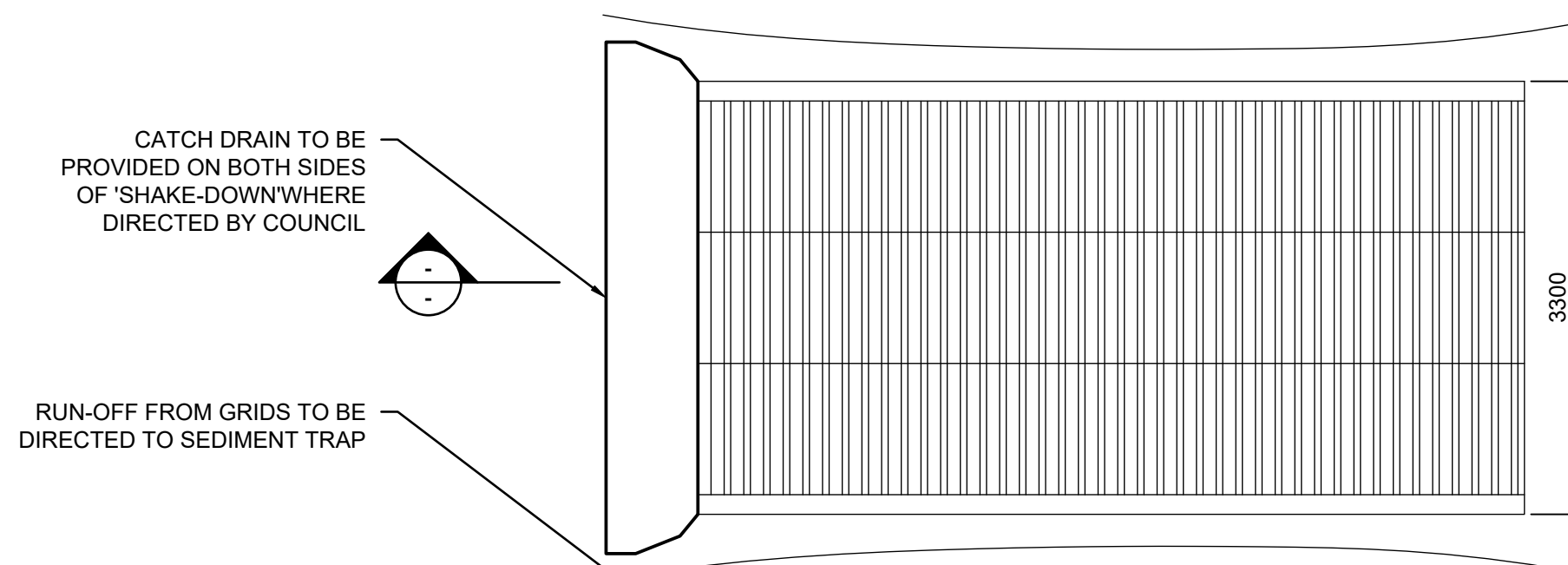
MAINTAIN THE OPENING WITH SPACER
BLOCKS

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

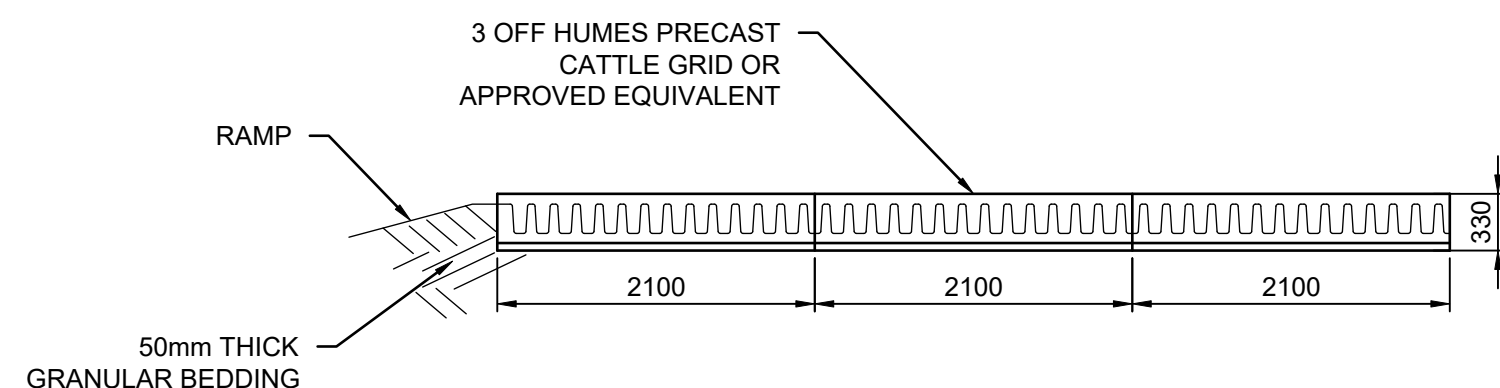
FIT TO ALL KERB INLETS AT SAG POINTS



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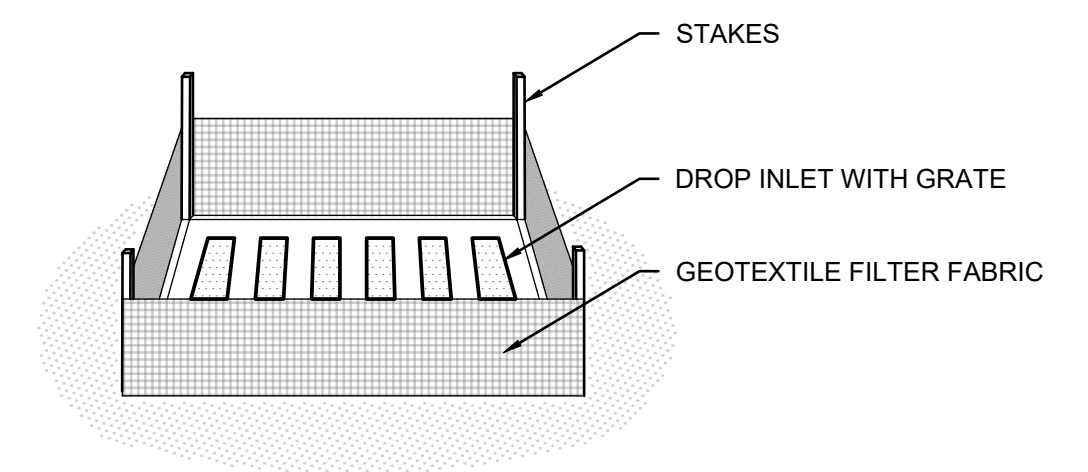
PLAN VIEW



TYPICAL SECTION

TEMPORARY CONSTRUCTION EXIT - NOT TO SCALE

NOT TO SCALE



										Reference Coordination Drawing				Quality Control		ENGINEERS AUSTRALIA Chartered Professional Engineer MEMBER		Scales		Client		Architect		 S&G CONSULTANTS PTY LTD SUITE 311, LEVEL 3 480 PACIFIC HIGHWAY ST. LEONARDS, N.S.W. 2065 T: +61 2 8883 4239 Email: office@sgce.com.au Web: www.sgce.com.au A.B.N. 21 118 222 530		PROJECT 221-291 CROWN ST, 216-240 KEIRA ST AND 86-92 BURELLI ST., WOLLONGONG STORMWATER CONCEPT DESIGN		Status FOR APPROVAL NOT FOR CONSTRUCTION	
										Discipline Drawing Title and Number Date Rev				DRAWN DATE		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 DIMENSIONS NOT SHOWN TO BE CHECKED ON SITE. DO NOT SCALE OF THIS DRAWING. POSITIONS OF AUTHORITIES MAINS AND/OR EXISTING SERVICES ARE TO BE CHECKED PRIOR TO COMMENCEMENT OF WORK. REPORT ANY DISCREPANCIES TO THE CONSULTING ENGINEER FOR DECISION/CLARIFICATION BEFORE PROCEEDING WITH THE WORK. THIS DRAWING IS TO BE READ IN CONJUNCTION WITH THE SPECIFICATIONS AND OTHER CONSULTANTS' DRAWINGS.		WOLLONGONG DEVELOPMENTS NO 8 PTY LTD				PROJECT 221-291 CROWN ST, 216-240 KEIRA ST AND 86-92 BURELLI ST., WOLLONGONG STORMWATER CONCEPT DESIGN		Status FOR APPROVAL NOT FOR CONSTRUCTION					
										ARCH PS 17.04.25																			
										STRUCT CHECKED DATE																			
										MECH SH 17.04.25																			
										ELEC DESIGNED DATE																			
A ISSUE FOR APPROVAL PE 17.04.25 02										PE 17.04.25																			
P01 PRELIMINARY ISSUE PE 11.04.25 01										PE 17.04.25																			
Issue Last revision title By Date Status										FIRE																			
Issuer internal sequence and revision history										LANDS																			
1-preliminary 2-development application 3-construction certificate										CIVIL																			
4-tender 5-construction 6-other										SURVEY																			
										APPROVED DATE																			
										SH 17.04.25																			



AGG LINE NOTE:

PUMP NOTE

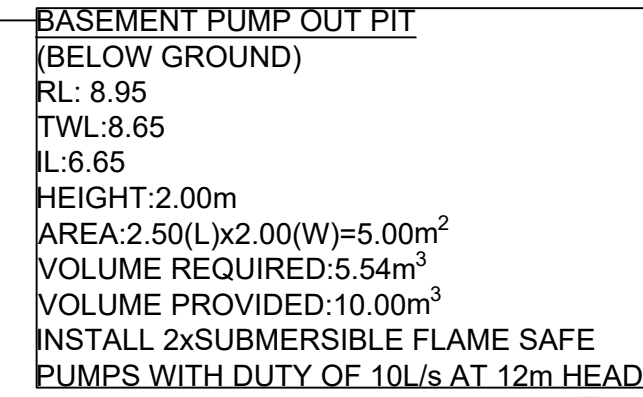
SURFACE GRADING NOTE:

NOTES:

GEO-TECHNICAL NOTE:

SUBSOIL DESIGN CALCS:

VOLUME OF RUNOFF
 $V = A \times d$
 $= 50 \times (110.8 / 1000)$
 $= 5.54 \text{m}^3$



~~RECOMMENDED LOCATION OF PUMP
CONTROL PANEL~~

—INSTALL WARNING FLASH LIGHT TO PROVIDE INDICATION OF PUMP FAILURE.

Quality Control	
DRAWN	DATE
PS	17.04.2
CHECKED	DATE
SH	17.04.2
DESIGNED	DATE
PE	17.04.2
VERIFIED	DATE
SH	17.04.2
APPROVED	DATE
SH	17.04.2

MEMBER

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WOLLONGONG
DEVELOPMENTS
NO 8 PTY LTD

DKO

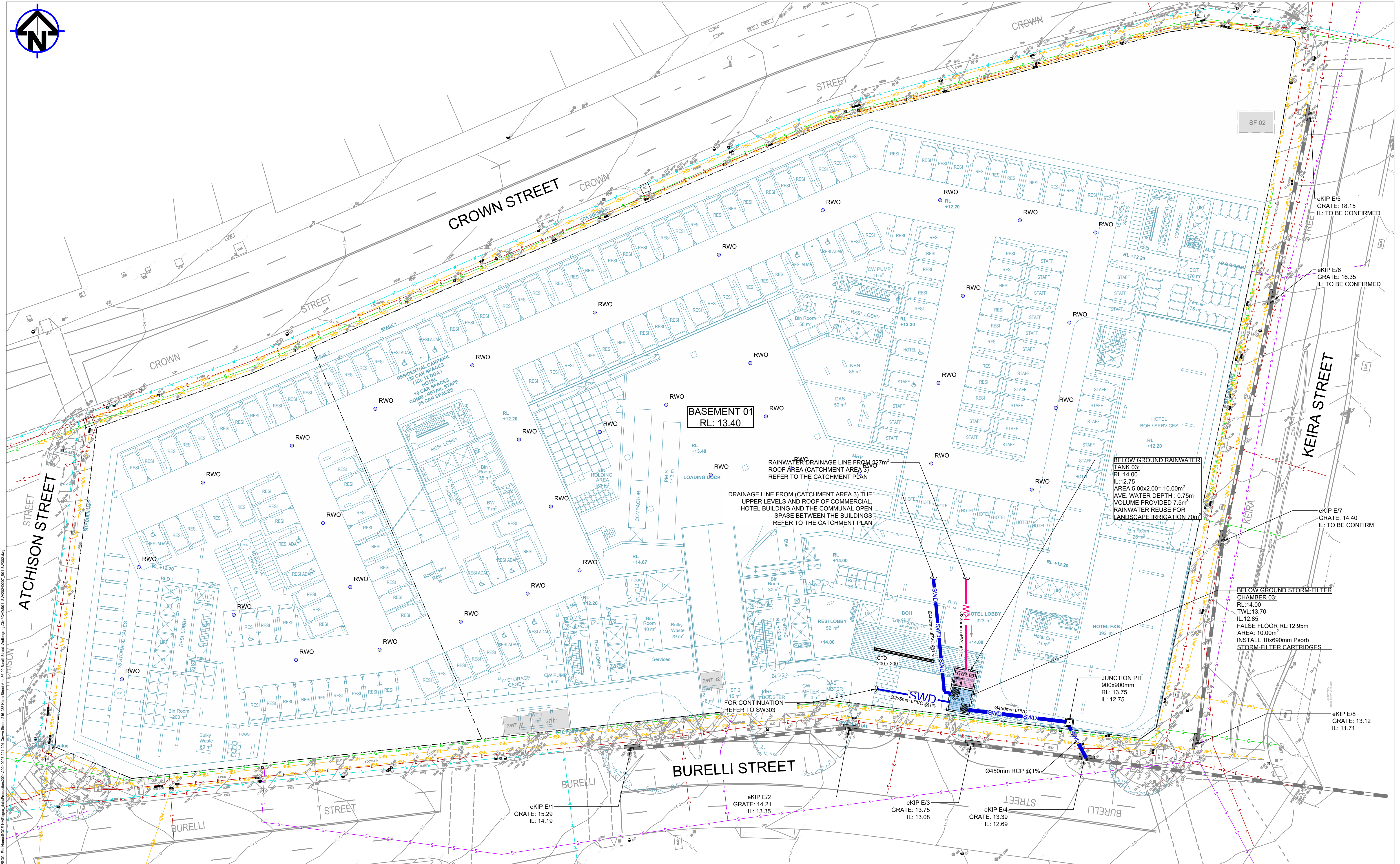


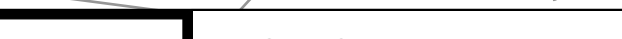
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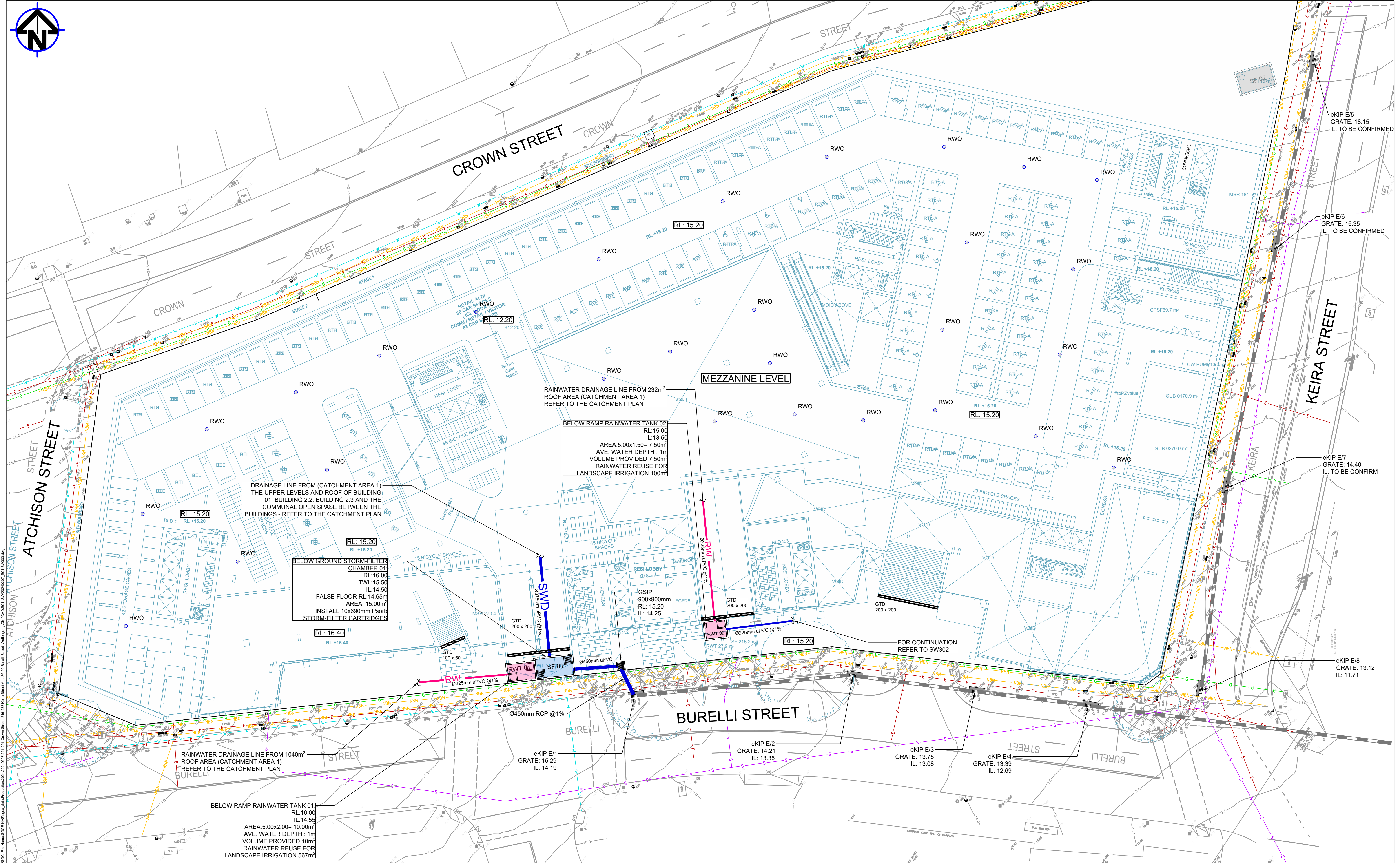
221-291 CROWN ST, 216-241
KEIRA ST AND 86-93
BURELLI ST., WOLLONGONG
STORMWATER CONCEPT DESIGN

Grid	Datum
	A.H.D.

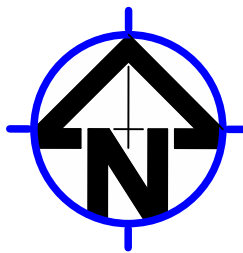
Status	FOR APPROVAL NOT FOR CONSTRUCTION		
Drawing Title	STORMWATER CONCEPT DESIGN BASEMENT 02 PLAN		
Project No.	Set No. - Drg No.	Revision No.	
20240207	S01-SW301	A	



					Reference Coordination Drawing					ENGINEERS AUSTRALIA Chartered Professional Engineer					Scales  SCALE 1:250 ON ORIGINAL SIZE					Client WOLLONGONG DEVELOPMENTS NO 8 PTY LTD					Architect  S&G CONSULTANTS PTY LTD SUITE 311, LEVEL 3 480 PACIFIC HIGHWAY ST. LEONARDS, N.S.W. 2065 T: +61 2 8883 4239 Email: office@sgce.com.au Web: www.sgce.com.au A.B.N. 21 118 222 530					PROJECT 221-291 CROWN ST, 216-242 KEIRA ST AND 86-94 BURELLI ST., WOLLONGONG STORMWATER CONCEPT DESIGN					Status FOR APPROVAL NOT FOR CONSTRUCTION				
					Discipline Drawing Title and Number Date Rev.					DRAWN DATE PS 17.04.25 CHECKED SH 17.04.25 DESIGNED DATE PE 17.04.25 VERIFIED DATE SH 17.04.25 APPROVED DATE SH 17.04.25					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 DIMENSIONS 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 DECISION/CLARIFICATION BEFORE PROCEEDING WITH THE WORK. THIS DRAWING IS TO BE READ IN CONJUNCTION WITH THE SPECIFICATIONS AND OTHER CONSULTANTS' DRAWINGS.					Drawing Title STORMWATER CONCEPT DESIGN BASEMENT 01 PLAN					Status														
A ISSUE FOR APPROVAL PE 17.04.25 02 P01 PRELIMINARY ISSUE PE 11.04.25 01 Issue Last revision title By Date Status					LANDS CIVIL SURVEY					1-preliminary 4-tender 2-development application 3-construction certificate 6-other					Project No. Set No. - Drg No. Revision No. 20240207 S01-SW302 A																								



Reference Coordination Drawing				Quality Control				Engineers Australia Chartered Professional Engineer MEMBER		Scales 0m 2.5 5 7.5 10 12.5 SCALE 1:250 ON ORIGINAL SIZE		Client WOLLONGONG DEVELOPMENTS NO 8 PTY LTD		Architect DKO		S&G CONSULTANTS PTY LTD SUITE 311, LEVEL 3 480 PACIFIC HIGHWAY ST. LEONARDS, N.S.W. 2065 T: +61 2 8883 4239 Email: office@sgce.com.au Web: www.sgce.com.au A.B.N. 21 118 222 530		PROJECT 221-291 CROWN ST, 216-242 KEIRA ST AND 86-94 BURELLI ST., WOLLONGONG STORMWATER CONCEPT DESIGN				Status FOR APPROVAL NOT FOR CONSTRUCTION Drawing Title STORMWATER CONCEPT DESIGN MEZZANINE LEVEL					
Discipline ARCH STRUCT MECH ELEC FIRE LANDS CIVIL SURVEY				Drawing Title and Number Date Rev				Drawn PS CHECKED SH DESIGNED PE VERIFIED SH APPROVED SH				DATE 17.04.25 17.04.25 17.04.25 17.04.25 17.04.25 17.04.25 17.04.25 17.04.25				Project No. 20240207				Set No. - Drg No. S01-SW303				Revision No. A			
Issue A P01 Issue				Last revision title ISSUE FOR APPROVAL PRELIMINARY ISSUE Last revision title				By PE PE By				Date 17.04.25 11.04.25 Date				Status 02 01 Status				Grid Datum A.H.D.				Sheet 06			
Issuer internal sequence and revision history 1-preliminary 2-development application 3-construction certificate 4-tender 5-construction 6-other																											



DESIGN NOTES:

THE SUBJECT SITE IS LOCATED IN WOLLONGONG CITY COUNCIL.
TOTAL SITE AREA = 13088 sqm
TOTAL PRE-DEVELOPMENT IMPERVIOUS AREA: 12,970 sqm
TOTAL POST DEVELOPMENT IMPERVIOUS AREA: 12,297 sqm
DEEP SOIL-PERVIOUS AREA : 791 sqm
ON-SITE DETENTION (OSD) IS NOT REQUIRED UNDER WOLLONGONG CITY COUNCIL "AS THE TOTAL IMPERVIOUS AREA HAS BEEN REDUCED BY 5.14 %"

THE WOLLONGONG DEVELOPMENT CONTROL PLAN AND COUNCIL'S CIVIL WORKS SPECIFICATION STATES THE MINIMUM REQUIREMENTS FOR THE DESIGN OF STORMWATER DETENTION INFRASTRUCTURE.
THESE DOCUMENTS REQUIRE DEVELOPMENTS AND REDEVELOPMENTS TO NOT INCREASE STORMWATER PEAK FLOWS IN ALL STORMS UP TO AND INCLUDING THE 100-YEAR ARI EVENT.

DRAINS MODEL HAS BEEN CHECKED TO CALCULATE THE PRE-DEVELOPMENT TO POST DEVELOPMENT FLOW DURING THE EVENTS UP TO 100-YEAR ARI AND THE FLOW HAS BEEN DECREASED. REFER TO SW502 FOR CATCHMENT PLAN AND DRAINS FLOW RESULTS.

THE WOLLONGONG COUNCIL DCP STATE THAT THE FOLLOWING WATER POLLUTANT REDUCTION TARGETS MUST BE ACHIEVED FOR ALL NEW DEVELOPMENTS THAT ARE NOT RESIDENTIAL OR INDUSTRIAL SUBDIVISIONS, OR BUSINESS PARKS:

TOTAL SUSPENDED SOLIDS	80%
TOTAL PHOSPHORUS	55%
TOTAL NITROGEN	45%
GROSS POLLUTANTS	90%

REFER TO SW501 FOR MUSIC CATCHMENT PLAN AND RESULTS.

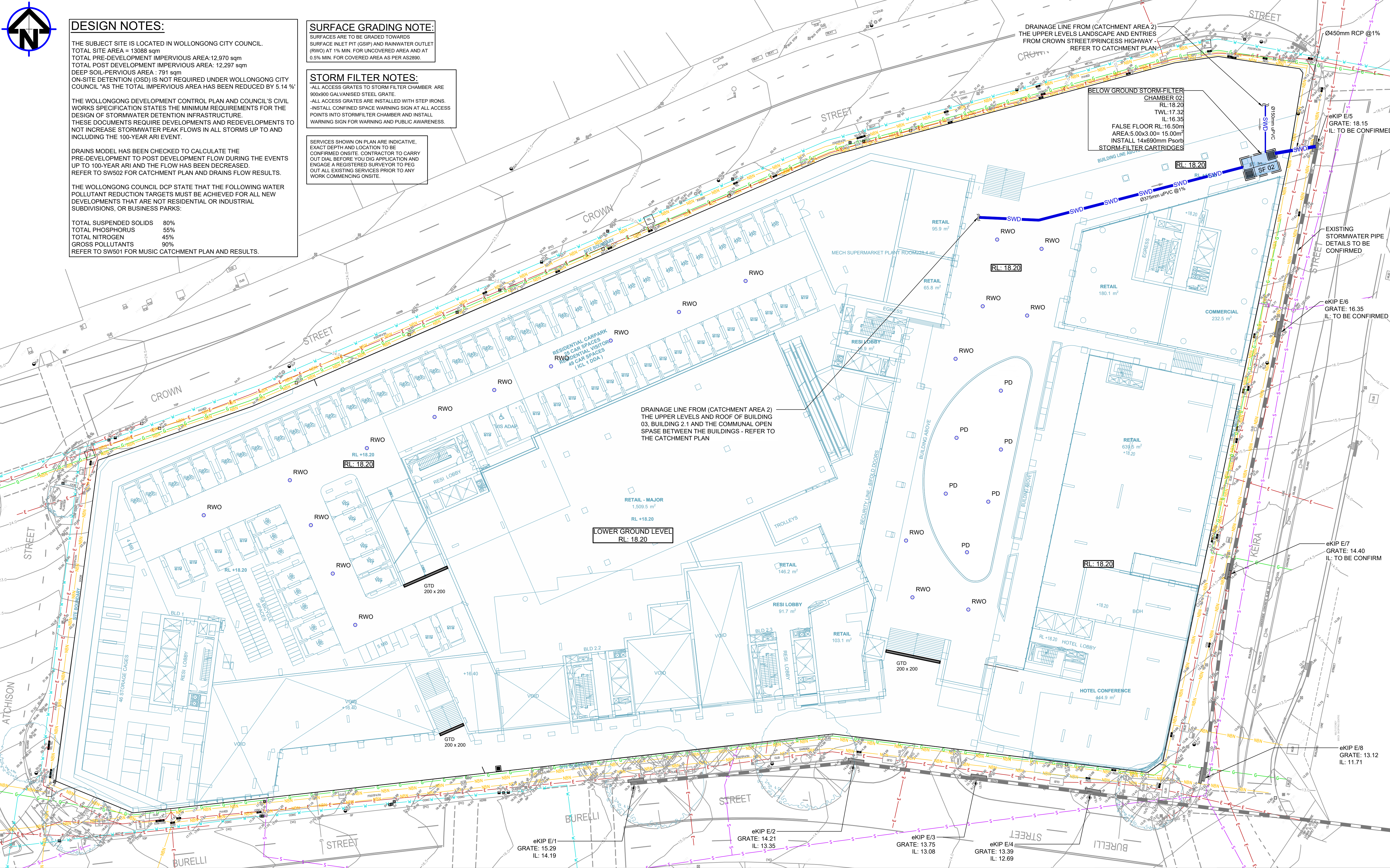
SURFACE GRADING NOTE:

SURFACES ARE TO BE GRADED TOWARDS SURFACE INLET PITS (GSIP) AND RAINWATER OUTLET (RWO) AT 1% MIN. FOR UNCOVERED AREA AND AT 0.5% MIN. FOR COVERED AREA AS PER AS2890.

STORM FILTER NOTES:

- ALL ACCESS GRATES TO STORM FILTER CHAMBER ARE 900x900 GALVANISED STEEL GRATE.
- ALL ACCESS GRATES ARE INSTALLED WITH STEP IRONS.
- INSTALL CONFINED SPACE WARNING SIGN AT ALL ACCESS POINTS INTO STORMFILTER CHAMBER AND INSTALL WARNING SIGN FOR WARNING AND PUBLIC AWARENESS.

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.



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

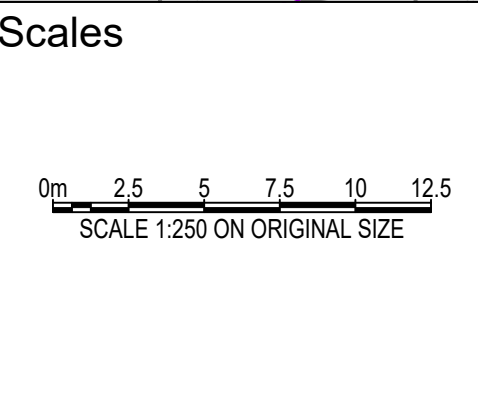
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CHECKED	DATE		
SH	17.04.25		
DESIGNED	DATE		
PE	17.04.25		
VERIFIED	DATE		
SH	17.04.25		
APPROVED	DATE		
SH	17.04.25		

Issue			
Issue	Last revision title	By	Date
A	ISSUE FOR APPROVAL	PE	17.04.25
P01	PRELIMINARY ISSUE	PE	11.04.25
Issue	Last revision title	By	Date
1-preliminary	2-development application	3-construction certificate	6-other
4-tender	5-construction		

ENGINEERS AUSTRALIA
Chartered Professional Engineer
MEMBER

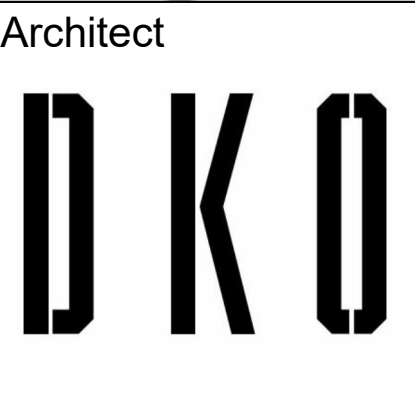
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Client

WOLLONGONG DEVELOPMENTS NO 8 PTY LTD



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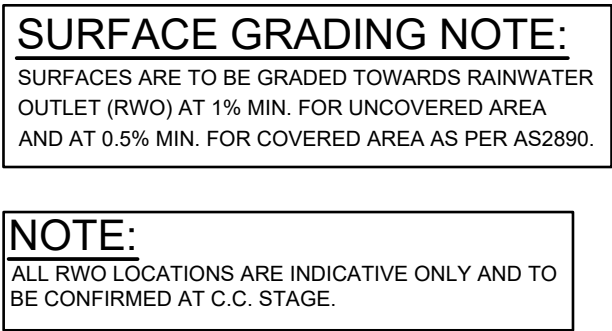
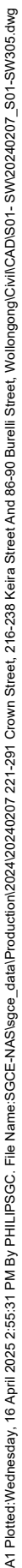
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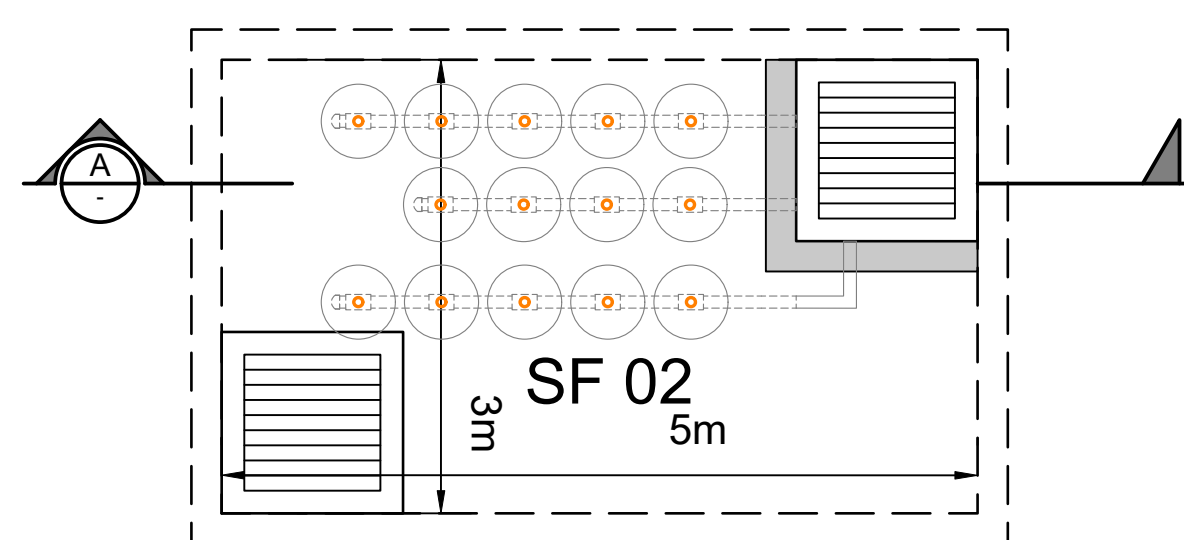
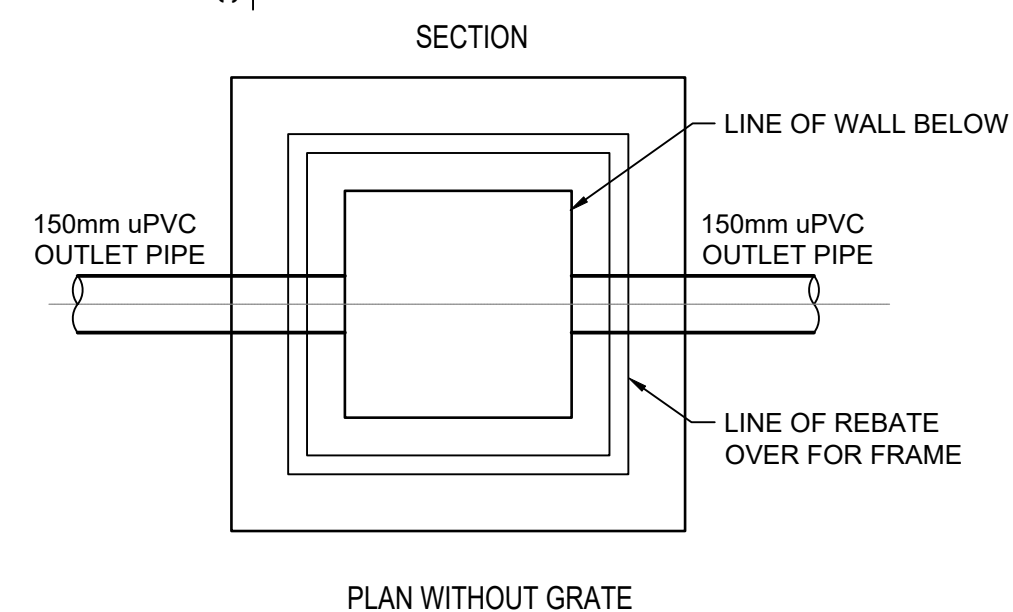
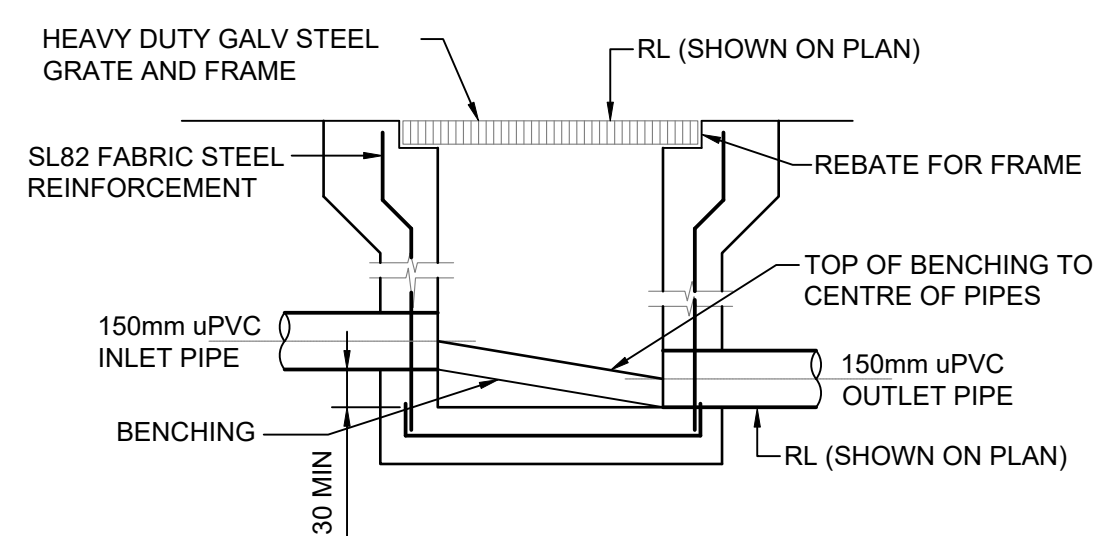
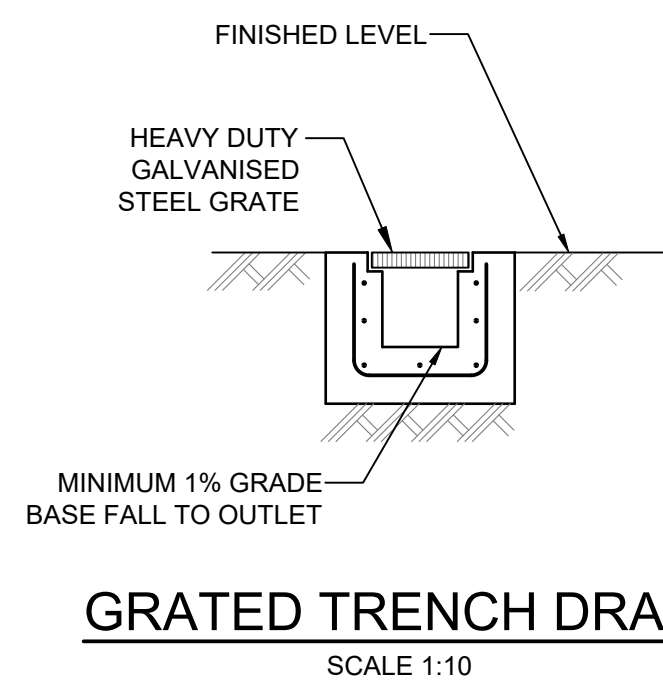
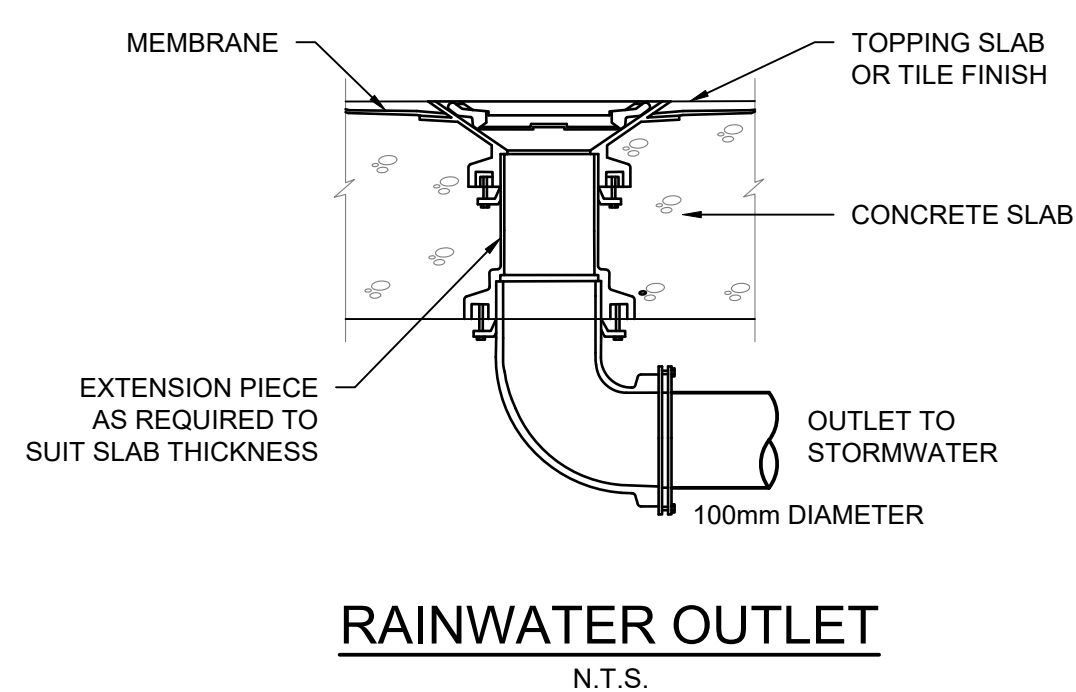
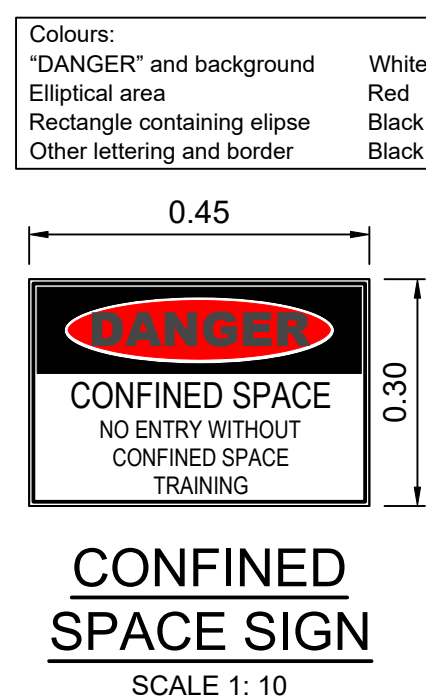
PROJECT

221-291 CROWN ST, 216-242
KEIRA ST AND 86-94
BURELLI ST., WOLLONGONG

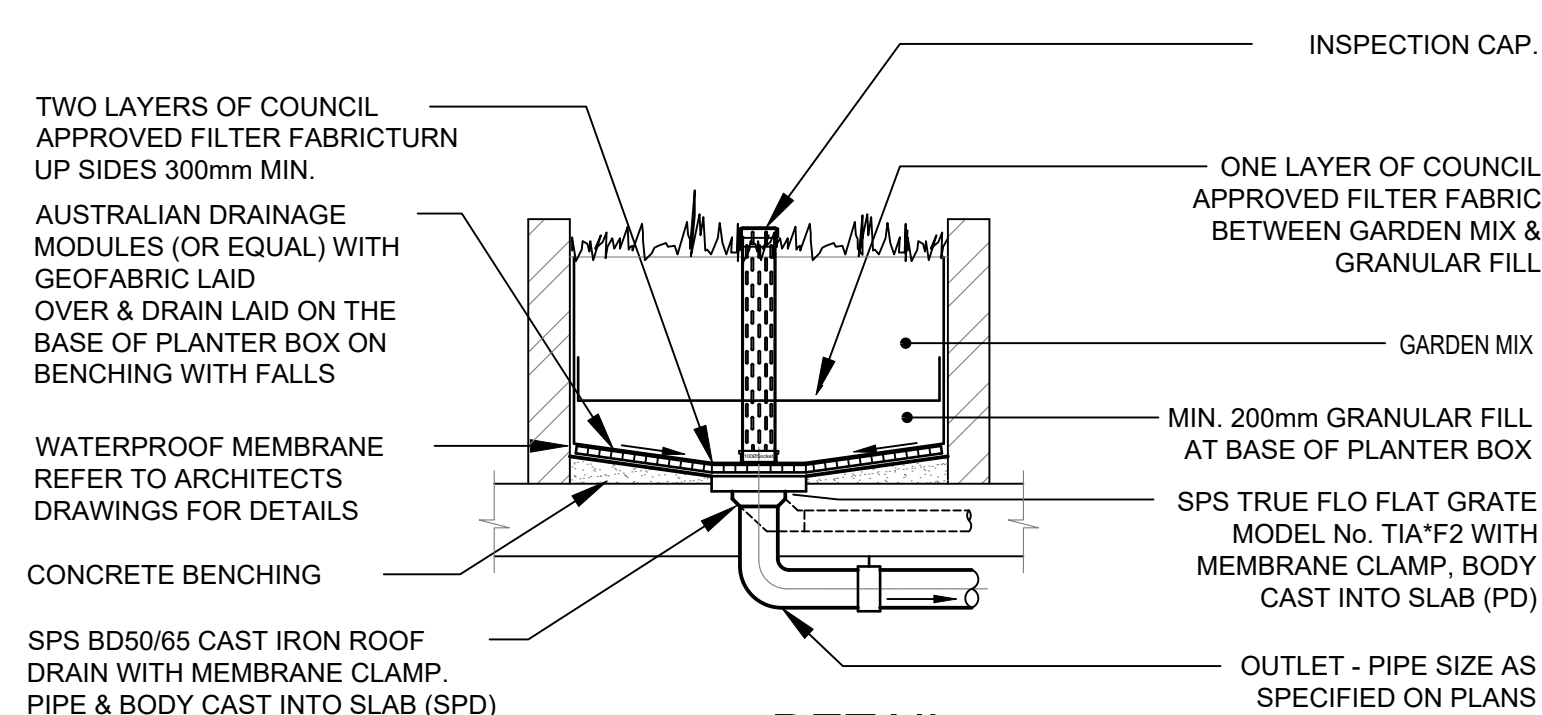
STORMWATER CONCEPT DESIGN

Status			
FOR APPROVAL NOT FOR CONSTRUCTION			
Drawing Title			
STORMWATER CONCEPT DESIGN LOWER GROUND PLAN			
Project No.	Set No. - Drg No.	Revision No.	
20240207	S01-SW304	A	

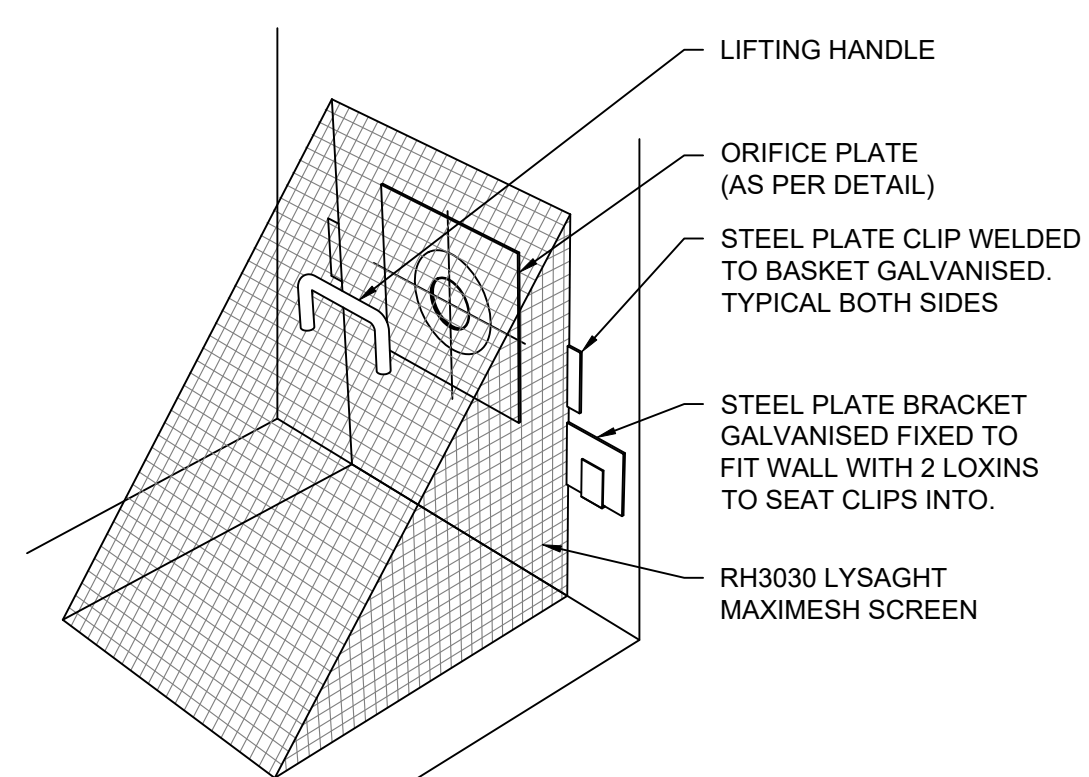
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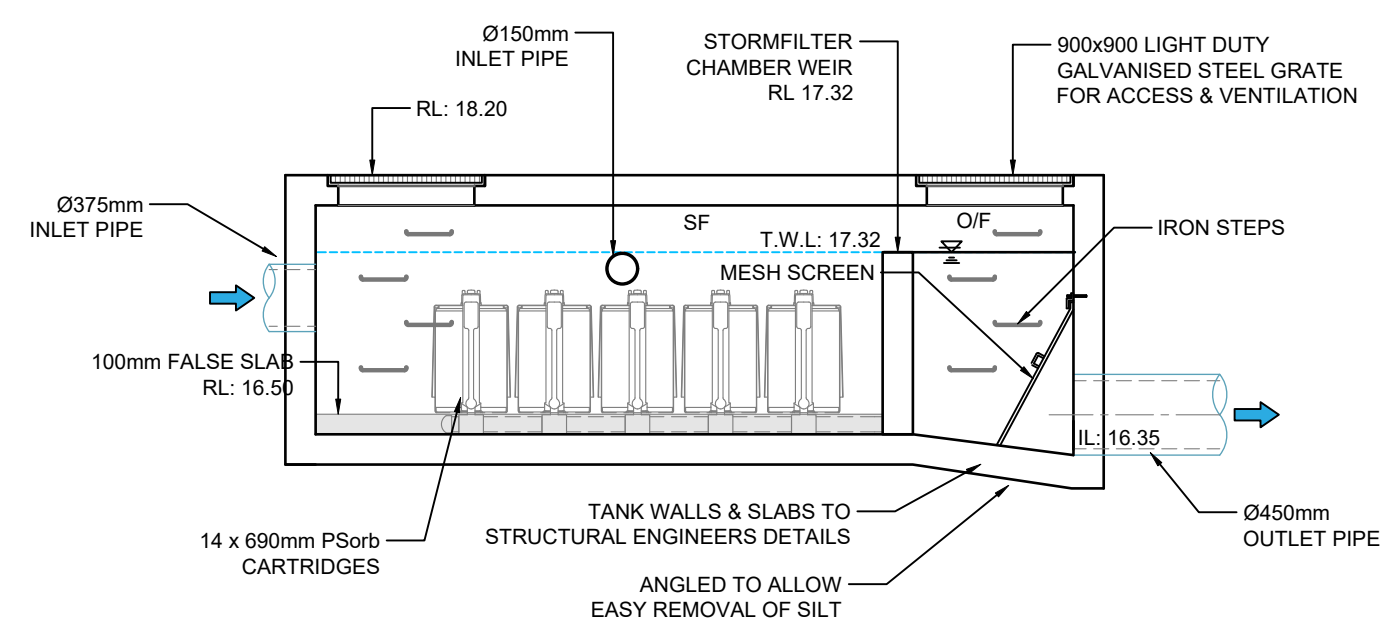
SF 02 TANK PLAN
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DIM IN m



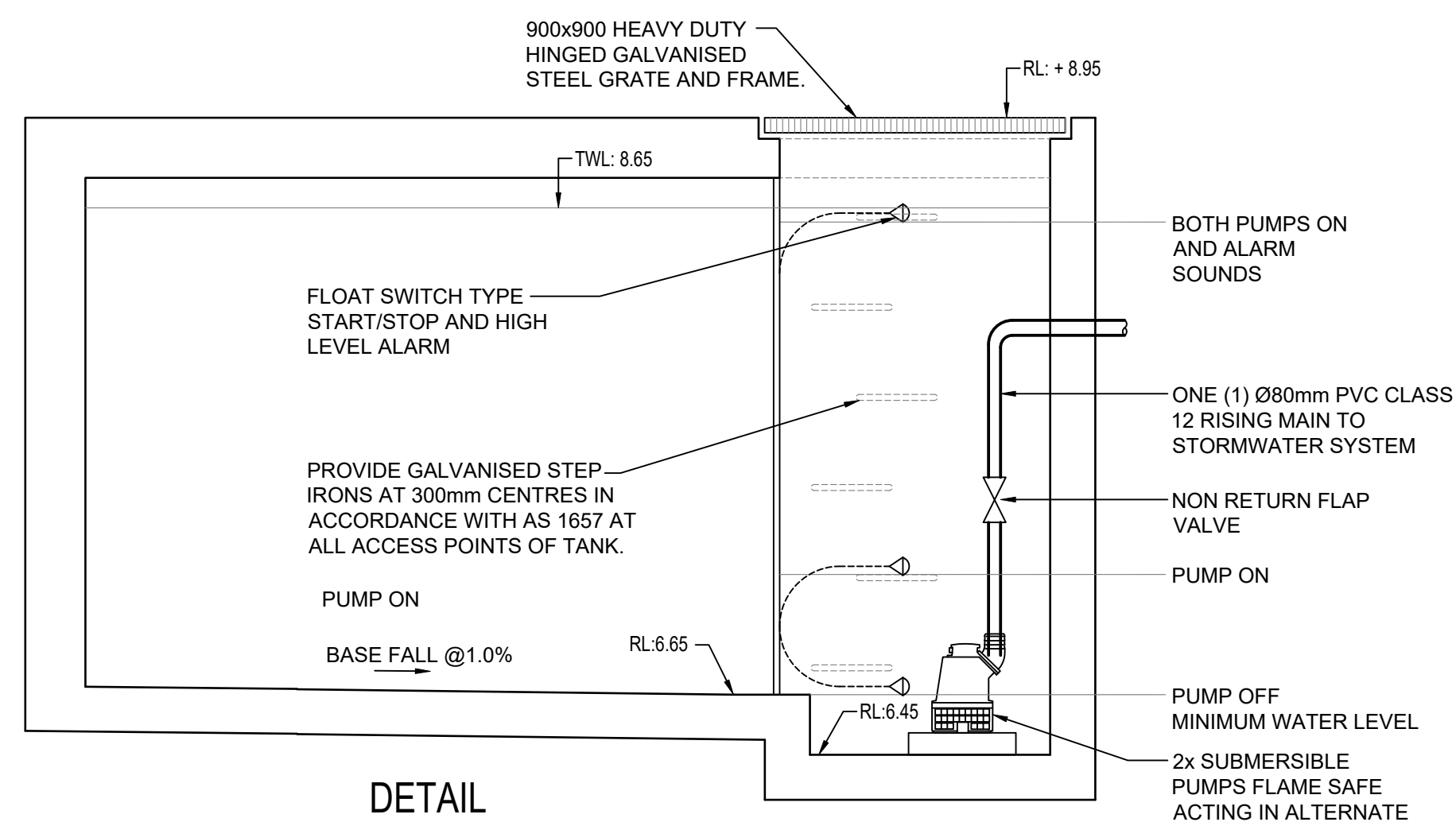
DETAIL
PLANTER DRAIN
SCALE 1:10



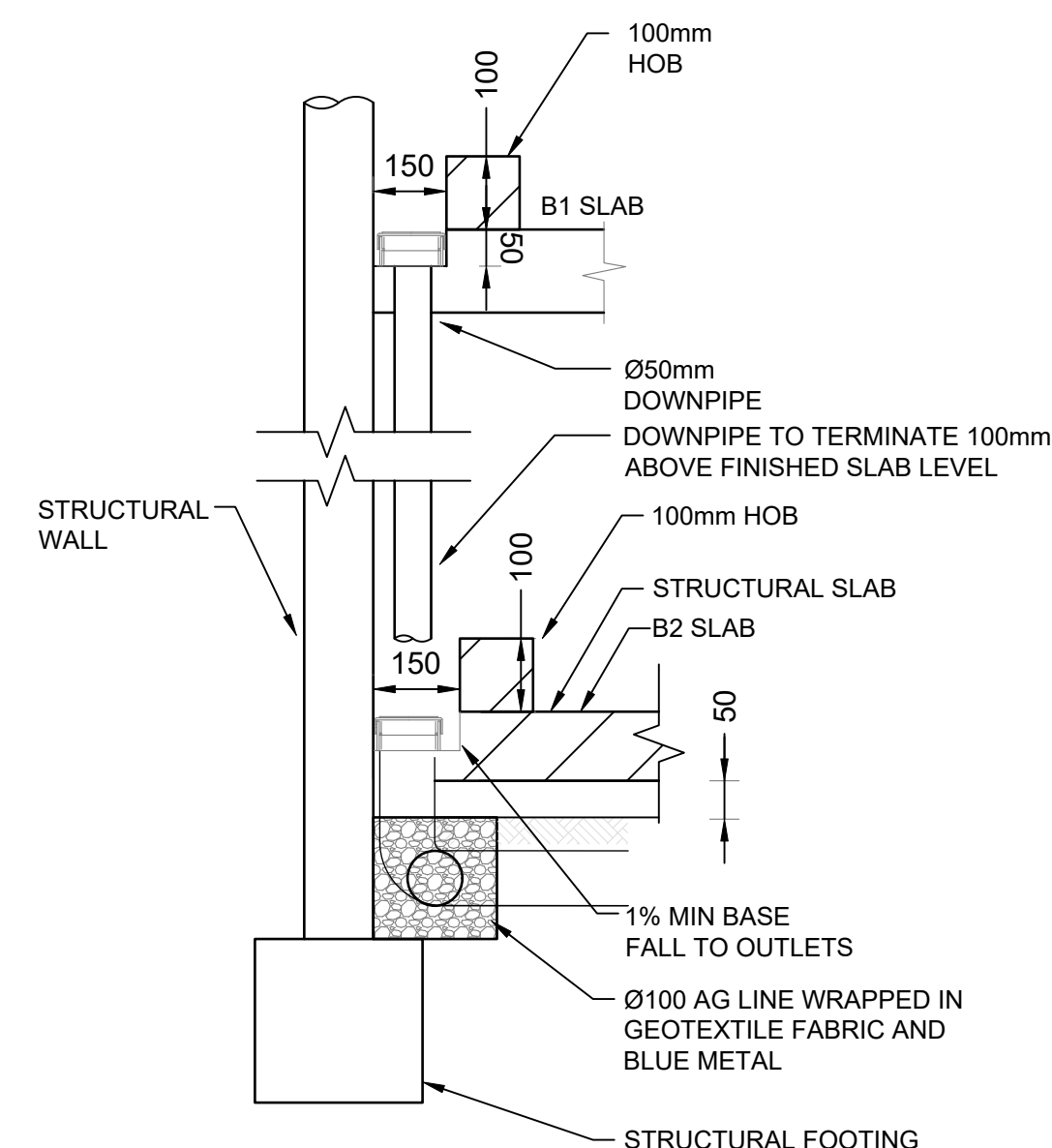
DEBRIS SCREEN
N.T.S.



SECTION A
STORM-FILTER 02 TANK
SCALE 1:50

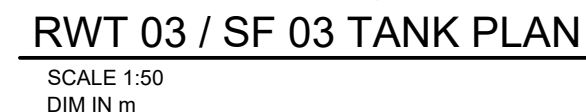
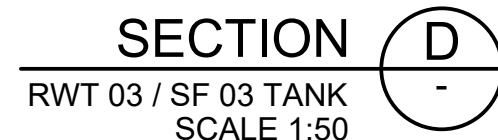
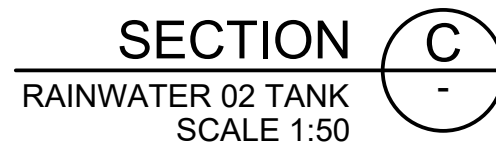
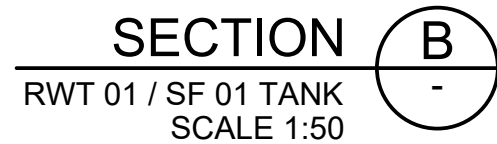
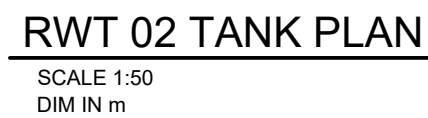
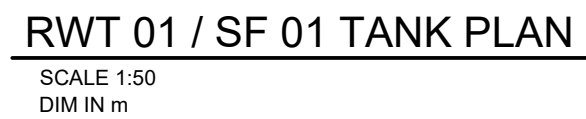


DETAIL
SUBSOIL PUMP OUT PIT
SCALE 1:10



TYPICAL SUBSOIL DRAINAGE
NTS

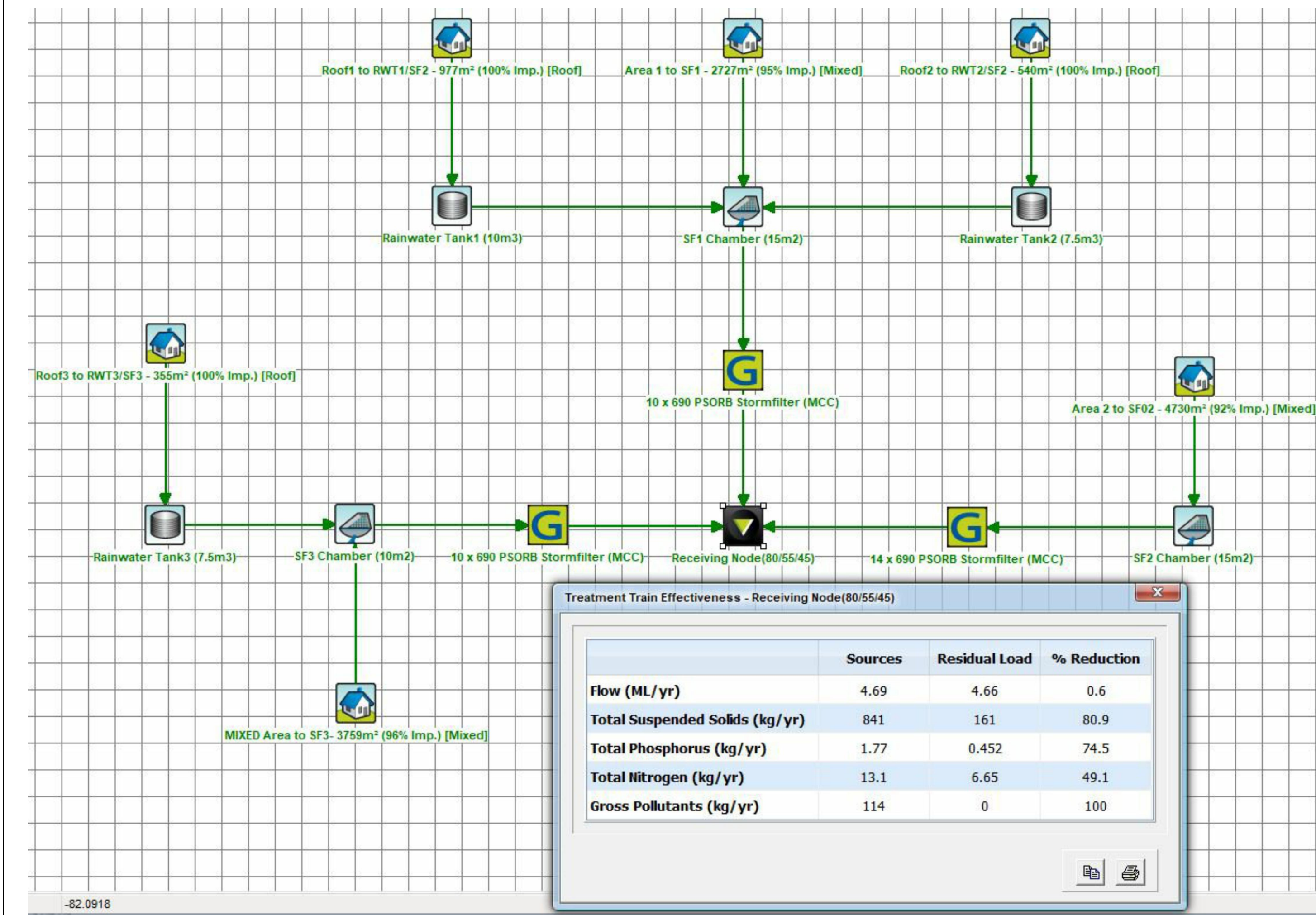
[illegible]



TOTAL SUSPENDED SOLIDS	80%
TOTAL PHOSPHORUS	55%
TOTAL NITROGEN	45%
GROSS POLLUTANTS	90%
REFER TO SW501 FOR MUSIC CATCHMENT PLAN AND RESULTS.	

Ø or DIA	DIAMETER
CO	CLEAR OUT
DDO	DISH DRAIN OUTLET
DP	DOWNPINE
e	EXISTING
FFEL	FINISHED FLOOR LEVEL
GTD	GRATED TRENCH DRAIN
GSIP	GRATED SURFACE INLET PIT
IL	INVERT LEVEL
KIP	KERB INLET PIT
NGL	NATURAL GROUND LEVEL
OFP	OVERLAND FLOWPATH
OS-SITE	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
TOW	TOP OF KERB
UPVC	TOP OF WALL

[illegible]

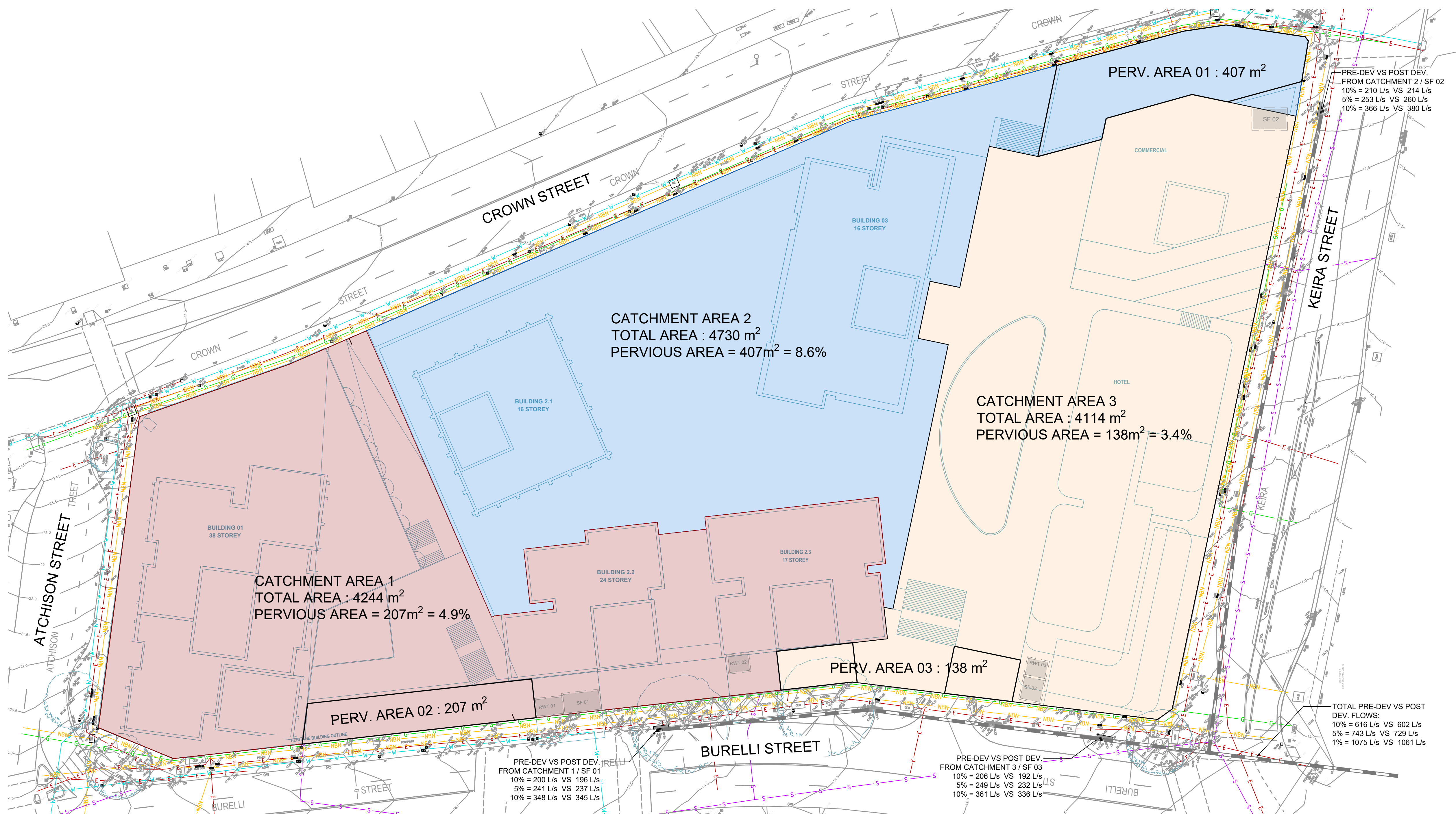


LEGEND

- CATCHMENT BOUNDARY
- AREA 1 TO STORMFILTER CHAMBER 01
- 2727 sqm - 95% IMPERVIOUS
- ROOF AREA TO RAINWATER TANK 1 / SF 01
- 977 sqm- 100% IMPERVIOUS
- ROOF AREA TO RAINWATER TANK 2 / SF 01
- 540 sqm- 100% IMPERVIOUS
- AREA 2 TO STORMFILTER CHAMBER 02
- 4730 sqm - 92% IMPERVIOUS
- ROOF AREA TO RAINWATER TANK 3 / SF 03
- 355 sqm- 100% IMPERVIOUS
- AREA 1 TO STORMFILTER CHAMBER 03
- 3759 sqm - 96% IMPERVIOUS



				Reference Coordination Drawing				Quality Control				ENGINEERS AUSTRALIA Chartered Professional Engineer MEMBER				Scales				Client				Architect				 S&G CONSULTANTS PTY LTD SUITE 311, LEVEL 3 480 PACIFIC HIGHWAY ST. LEONARDS, N.S.W. 2065 T: +61 2 8883 4239 Email: office@sgce.com.au Web: www.sgce.com.au A.B.N. 21 118 222 530				PROJECT				Status																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
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A ISSUE FOR APPROVAL PE 17.04.25 02 P01 PRELIMINARY ISSUE PE 11.04.25 01 Issue Last revision title By Date Status				ELEC HYD FIRE LANDS CIVIL SURVEY																Project No. Set No. - Drg No. Revision No. 20240207 S01-SW502 A			
Issue internal sequence and revision history 1-preliminary 2-development application 3-construction certificate 4-tender 5-construction 6-other																							