

# PROPOSED MULTI-DWELLING DEVELOPMENT

## 143 STAFFORD STREET PENRITH

### STORMWATER CONCEPT DESIGN



LOCALITY PLAN  
NOT TO SCALE  
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DRAWINGS LIST			
SHEET No.	DWG No.	TITLE	REV
1	SW100	COVER SHEET	A
2	SW200	STORMWATER CONCEPT DESIGN - GROUND FLOOR PLAN - SHEET 1 OF 2	A
3	SW201	STORMWATER CONCEPT DESIGN - GROUND FLOOR PLAN - SHEET 2 OF 2	A
4	SW300	STORMWATER CONCEPT DESIGN - DETAILS SHEET - SHEET 1 OF 2	A
5	SW301	STORMWATER CONCEPT DESIGN - DETAILS SHEET - SHEET 2 OF 2	A
6	SW400	EROSION AND SEDIMENT CONTROL - PLAN AND DETAILS	A
7	SW500	STORMWATER CONCEPT DESIGN - MUSIC CATCHMENT PLAN	A



**PREPARED BY:**  
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**ARCHITECT:**



**CLIENT:**

CAZBUILD



### DESIGN NOTES:

SITE IS LOCATED WITHIN PENRITH CITY COUNCIL LEP.  
SITE AREA: 3695 m<sup>2</sup>

DESIGN IS BASED ON PENRITH CITY COUNCIL'S STORMWATER DRAINAGE POLICY, WSUD POLICY AND TECHNICAL GUIDELINES. OSD & WSUD IS REQUIRED.

AREA TO FALL PART OF FLOOD MITIGATION STRATEGY EXCLUDED FROM OSD AND MUSIC CALCULATIONS  
TOTAL AREA FOR FLOOD MITIGATION: 839 m<sup>2</sup>

AREA DRAINED TO OSD: 2702 m<sup>2</sup>  
AREA BYPASS OSD: 154 m<sup>2</sup> (4% OF SITE AREA)

PSD: 95.6 L/s/ha  
SSR: 279 m<sup>3</sup>/ha

CATCHMENT 1 TO OSD 1: 1532 m<sup>2</sup>  
OSD 1 DISCHARGE: 14.65 L/s  
OSD 1 REQUIRED STORAGE: 42.74 m<sup>3</sup>

CATCHMENT 2 TO OSD 2: 1170 m<sup>2</sup>  
OSD 2 DISCHARGE: 10.18 L/s  
OSD 2 REQUIRED STORAGE: 32.64 m<sup>3</sup>

STORMWATER PLANS TO BE READ IN CONJUNCTION WITH FLOOD LETTER PREPARED BY S&G CONSULTANTS PTY LTD (REF: 20210226-T01-FLOOD LETTER (A))  
WATER LEVEL WITHIN THE EASEMENT PIPE HAS BEEN ADOPTED AS RL 40.66. HENCE, CENTRE LINE OF THE OSD TANKS HAVE BEEN PROPOSED AT RL 40.70.

BOTH OSD TANK AND STORMFILTER CHAMBER HAS BEEN PROPOSED TO BE LOCATED UNDER DRIVEWAY TO ACHIEVE COUNCIL'S REQUIREMENT.

### ORIFICE CALCULATIONS:

OSD 1:  
 $Q = CA(2gh)^{0.5}$  WITH  
 $Q = PSD = 0.01465m^3/s$   
 $C = 0.62$   
 $A = 3.1415 \times d^2/4$  (d ORIFICE DIAMETER)  
 $g = 9.81m/s^2$   
 $h = 1.40m$   
  
 $d = 72mm$

OSD 2:  
 $Q = PSD = 0.01018m^3/s$   
 $C = 0.62$   
 $A = 3.1415 \times d^2/4$  (d ORIFICE DIAMETER)  
 $g = 9.81m/s^2$ 

### SURFACE GRADING NOTE:

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

### OSD NOTES:

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

### DOWNPIPE NOTES:

LOCATION OF DOWNPIPES TO BE INDICATIVE ONLY AND TO BE CONFIRMED AT CC STAGE. DOWNPIPES AND GUTTER TO BE DESIGNED FOR 1% AEP EVENT.

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.

### ORIFICE CALCULATIONS:

OSD 1:  
 $Q = CA(2gh)^{0.5}$  WITH  
 $Q = PSD = 0.01465m^3/s$   
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 $h = 1.40m$   
  
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OSD 2:  
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 $C = 0.62$   
 $A = 3.1415 \times d^2/4$  (d ORIFICE DIAMETER)  
 $g = 9.81m/s^2$   
 $h = 1.40m$   
  
 $d = 60mm$

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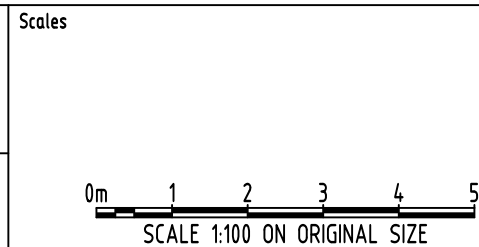
#### Reference Coordination Drawing

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

ENGINEERS AUSTRALIA Chartered Professional Engineer MEMBER	DIMENSIONS NOT SHOWN TO BE CHECKED ON SITE. DO NOT SCALE OF THIS DRAWING. POSITIONING OF AUTHORITIES MARKS 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.
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QUALITY CONTROL			
DRAWN	SC	DATE	06.12.21
CHECKED	SH	DATE	06.12.21
DESIGNED	SC	DATE	06.12.21
VERIFIED	SH	DATE	06.12.21
APPROVED	SH	DATE	06.12.21

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CLIENT  
**CAZBUILD**

ARCHITECT  
**obrien**  
design+drafting



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A.B.N. 21 118 222 530

PROJECT  
**PROPOSED MULTI-DWELLING DEVELOPMENT**  
143 STAFFORD STREET,  
PENRITH NSW 2750.

Grid	Datum	Sheet	Scale (at original size)
A..H.D.		2 OF 7	1:100 @ A1

Drawing Status	PRELIMINARY NOT TO BE USED FOR CONSTRUCTION PURPOSES
Drawing Title	<b>STORMWATER CONCEPT DESIGN</b> GROUND FLOOR PLAN SHEET 1 OF 2
Project No	20210226
Drawing No	SW200
Revision No	A

STAFFORD STREET

IMAGE PIT  
SEALED

DRAINAGE EASEMENT 2 METRES WIDE

INDICATIVE LOCATION OF DOWNPIPES  
CONNECTING TO OSD1/OSD2. EXACT  
LOCATIONS TO BE CONFIRMED AT CC  
STAGE (TYP.)

DENOTES FIRST FLUSH DIVERTER TO  
MANUFACTURER'S SPECIFICATIONS (TYP.)

PIPE TO DROP IN LOWER  
ELEVATIONS (TYP.)

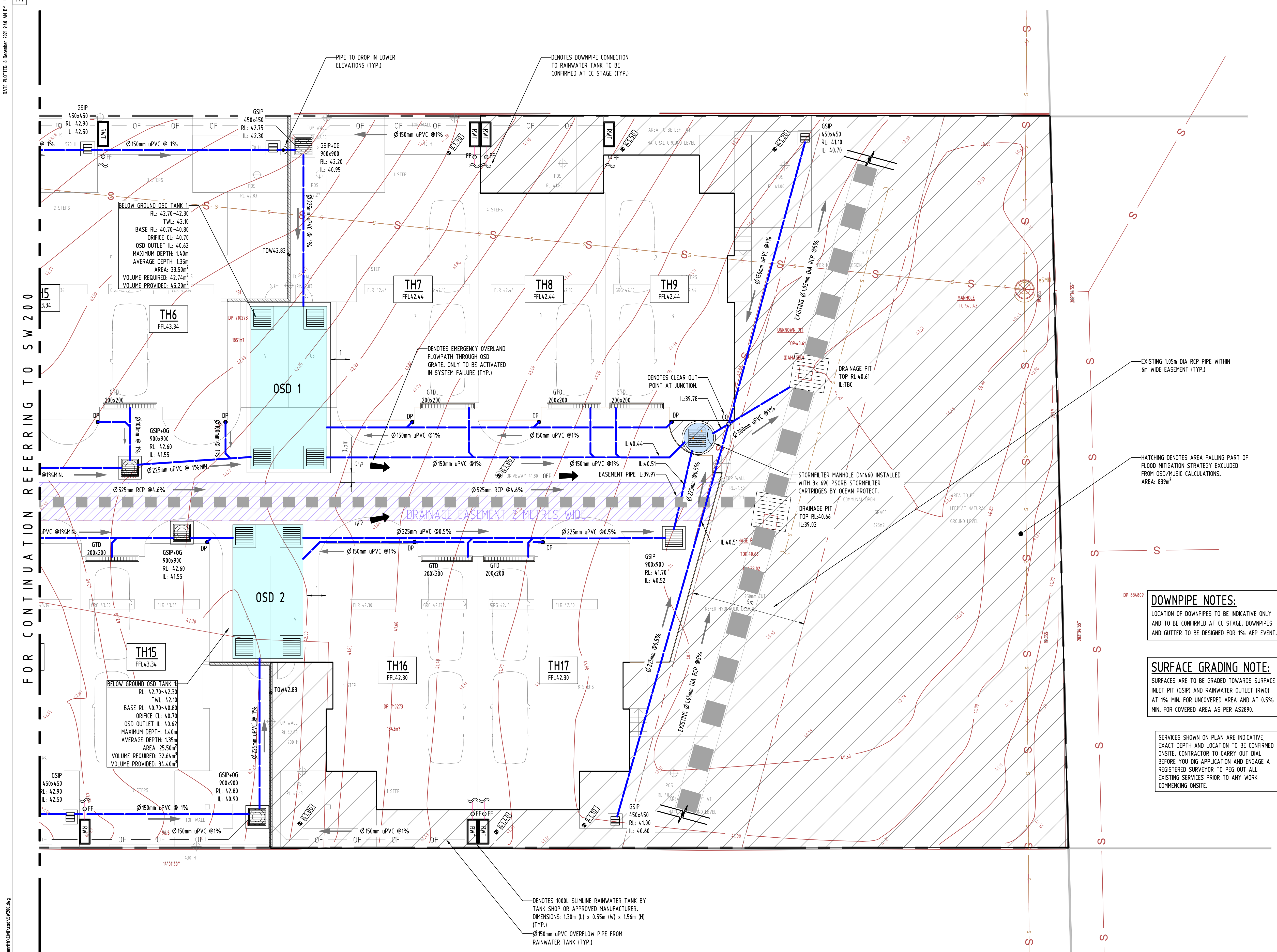
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FOR CONTINUATION REFERRING TO SW 201



SERVICES ON THIS DRAWING  
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**LEGEND**

EXISTING BOUNDARY

STORMWATER LINE

STORMWATER LINE TO RAINWATER TANK

OVERFLOW LINE

AUTHORITY SEWER LINE

AUTHORITY WATER LINE

AUTHORITY GAS LINE

AUTHORITY FIBRE OPTIC LINE

AUTHORITY COMMS LINE

GRADED SURFACE INLET PIT

JUNCTION PIT

GRADED TRENCH DRAIN

EXISTING GRADED SURFACE INLET PIT

EXISTING KERB INLET PIT

EXISTING TELSTRA PIT

EXISTING HYDRANT

EXISTING POWER POLE

EXISTING SEWER MANHOLE

OVERLAND FLOW PATH

RAINWATER OUTLET

CLEAR OUT POINT

DOWNPIPE DROP

DOWNPIPE

SPOT LEVEL





**DOWNPIPE NOTES:**

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Discipline Drawing Title and Number										Date		Rev.		DRAWN SC DATE 06.12.21				Drawing Title STORMWATER CONCEPT DESIGN											
ARCH														CHECKED SH DATE 06.12.21				GROUND FLOOR PLAN											
STRUCT														DESIGNED SC DATE 06.12.21				SHEET 2 OF 2											
MECH														VERIFIED SH DATE 06.12.21				Project No Drawing No Revision No											
ELEC														APPROVED SH DATE 06.12.21				20210226 SW201 A											
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FIRE																		A.H.D. 3 OF 7 1:100 @ A1											
LANDS																		A.B.N. 21 118 222 530											
CIVIL																													
SURVEY																													

Issue internal sequence and revision history

1-preliminary

2-development application

3-construction certificate

4-tender

5-construction

6-other

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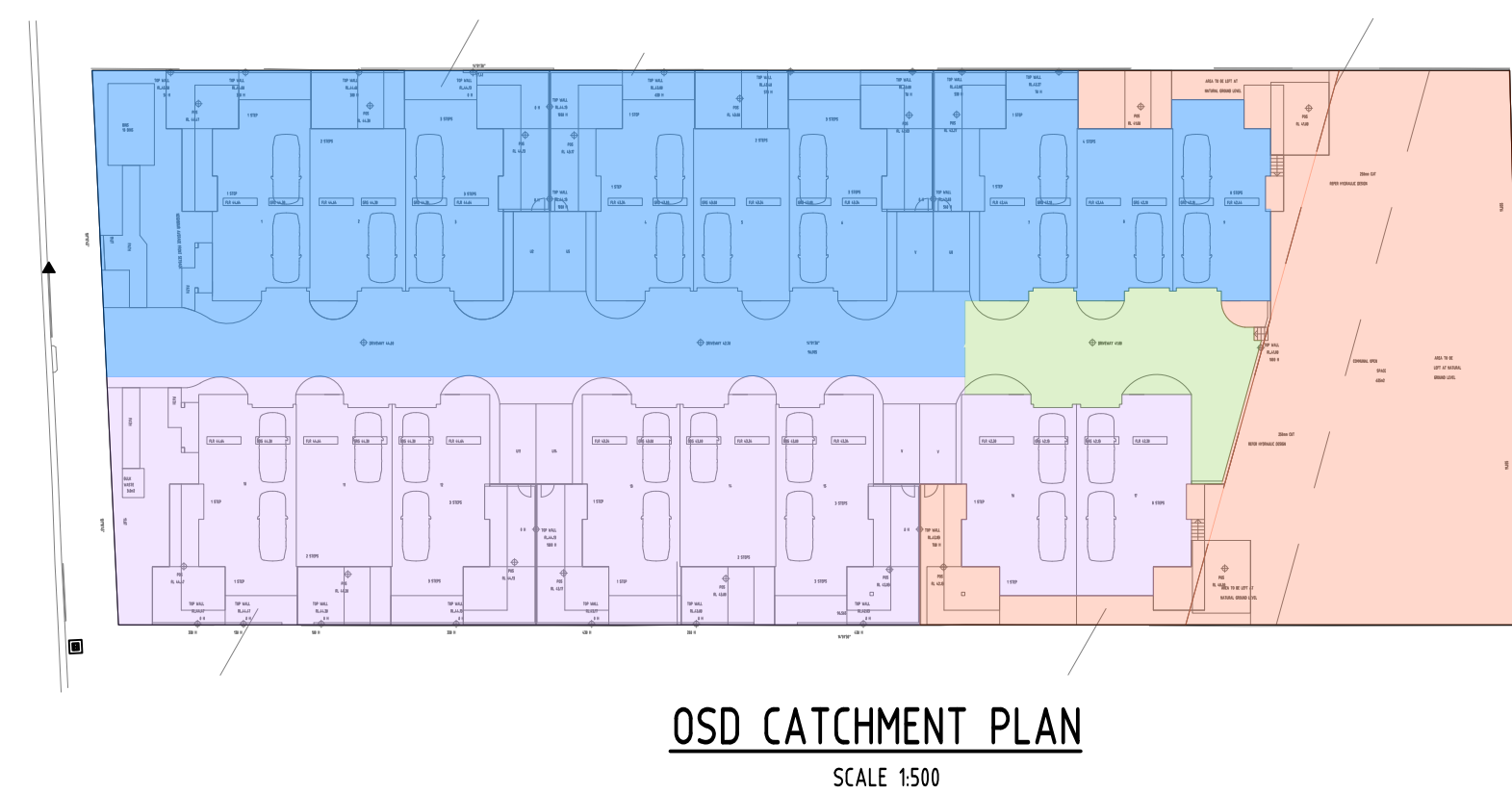
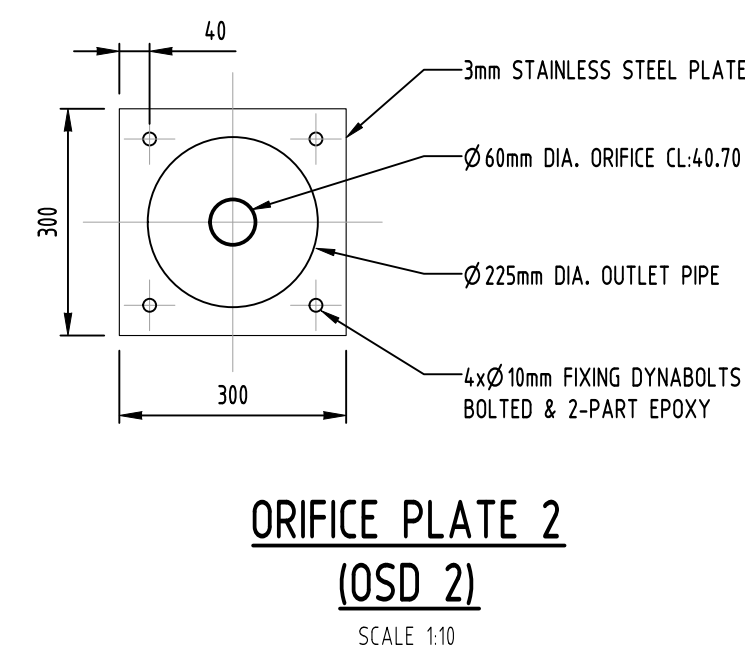
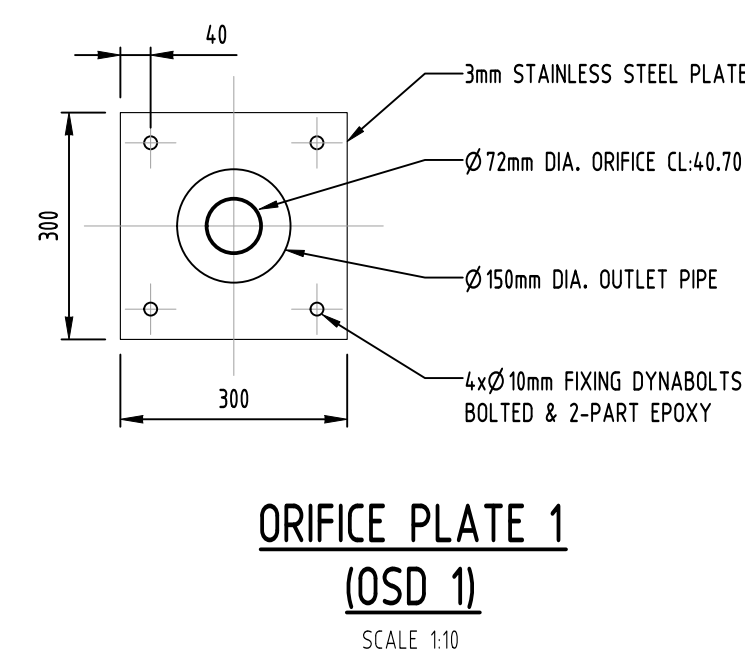
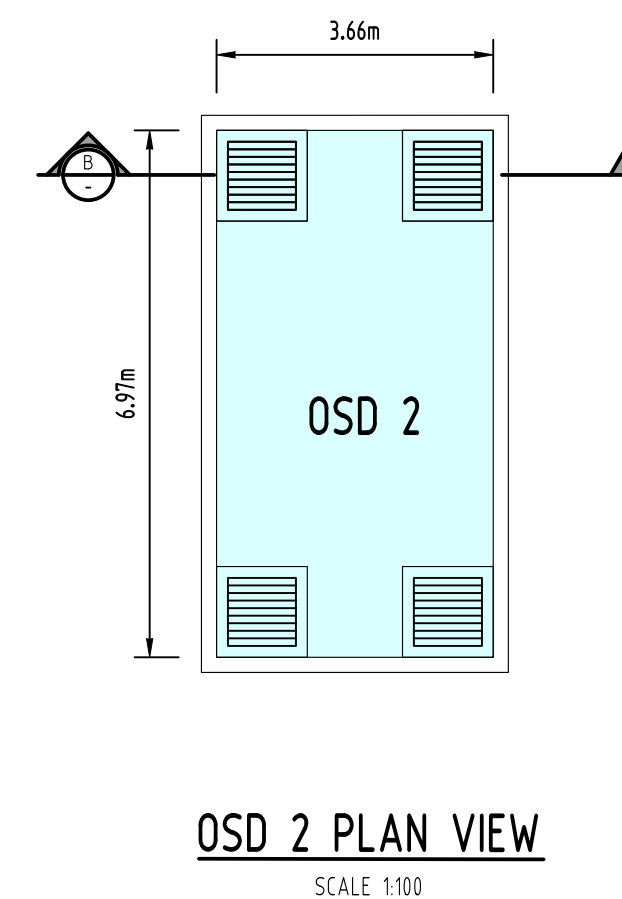
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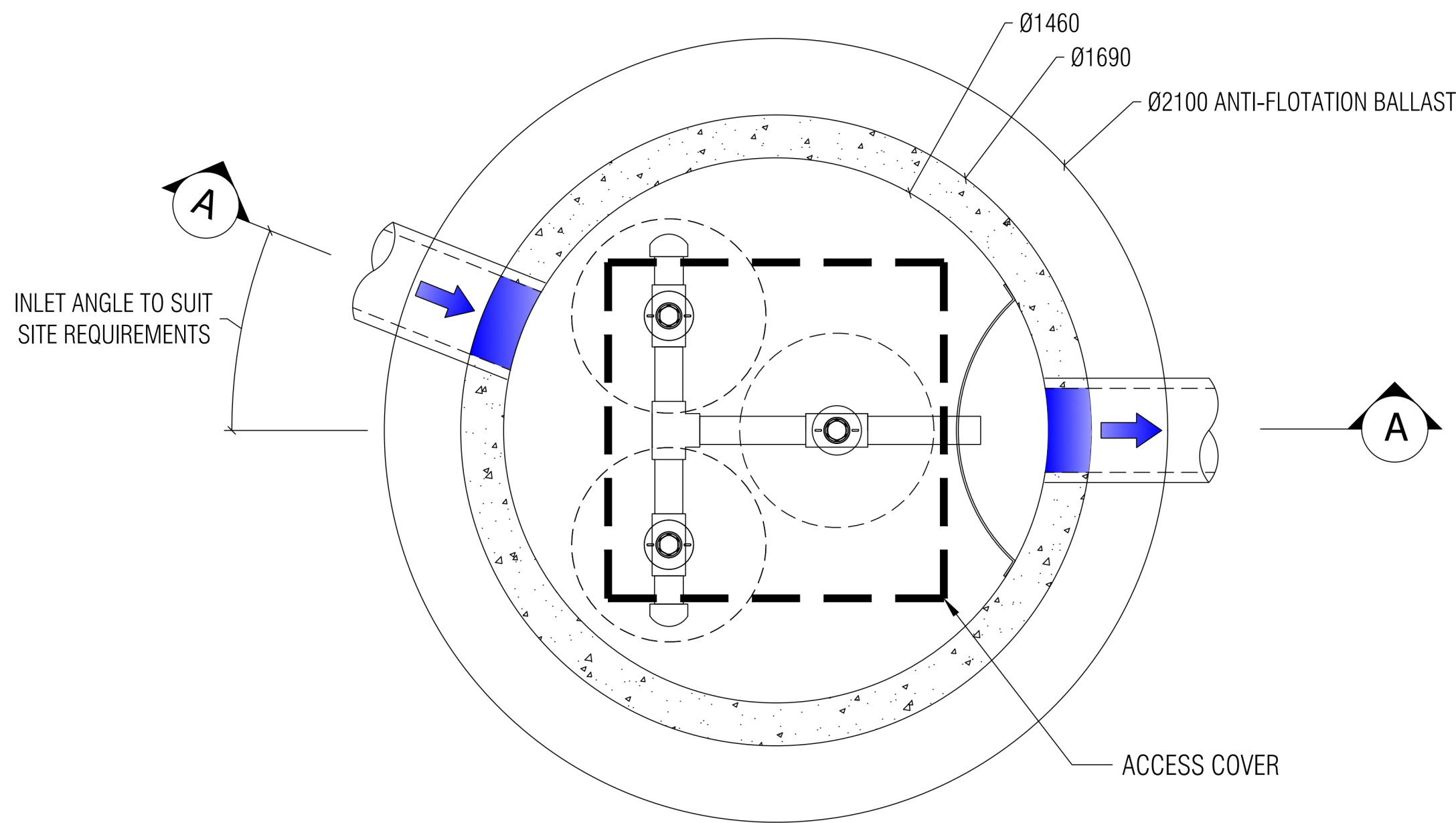


	AREA DRAINING TO OSD 1 1532m <sup>2</sup>		AREA PART OF FLOOD MITIGATION 839m <sup>2</sup>
	AREA DRAINING TO OSD 2 1170m <sup>2</sup>		AREA BYPASSING OSD 154m <sup>2</sup>

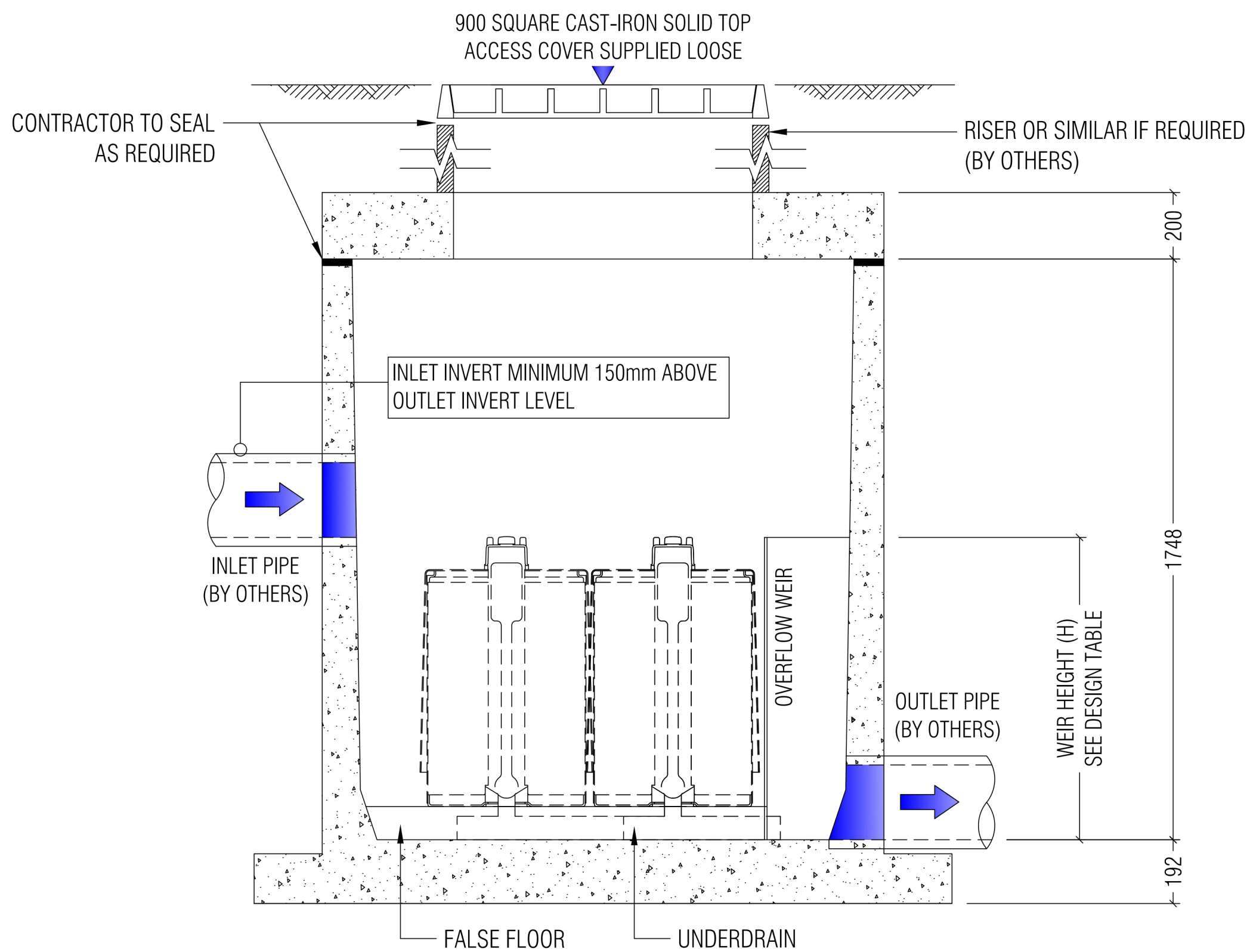
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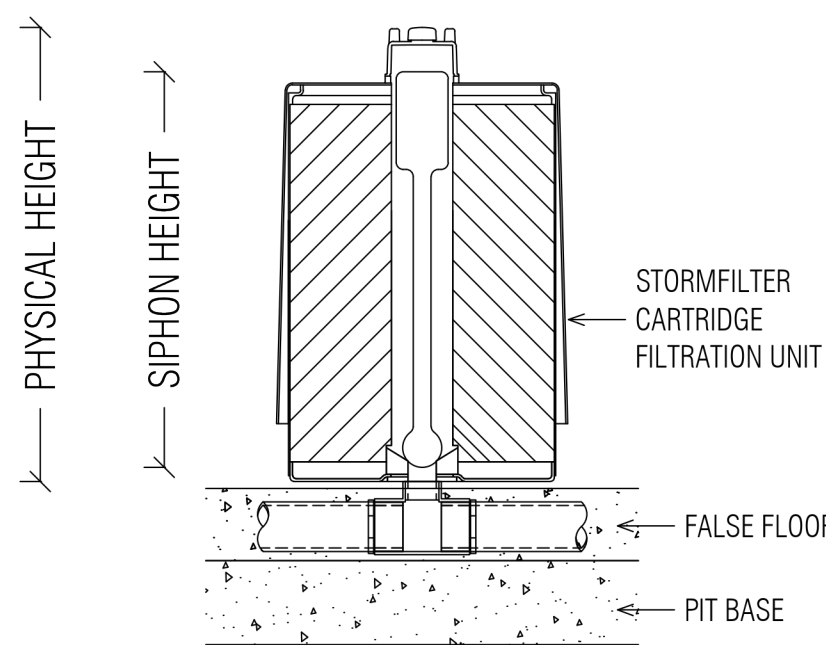
SECTION A-A

LAST MODIFIED: 09-11-18

STORMFILTER DESIGN TABLE

- STORMFILTER TREATMENT CAPACITY VARIES BY NUMBER OF FILTER CARTRIDGES INSTALLED.
- THE STANDARD CONFIGURATION IS SHOWN. ACTUAL CONFIGURATION OF THE SPECIFIED STRUCTURE(S) PER CERTIFYING ENGINEER WILL BE SHOWN ON SUBMITTAL DRAWING(S).
- FILTER CARTRIDGES SHALL BE MEDIA-FILLED, PASSIVE, SIPHON ACTUATED, RADIAL FLOW, AND SELF-CLEANING. RADIAL MEDIA DEPTH SHALL BE 178mm.

CARTRIDGE NAME / SIPHON HEIGHT (mm)	690	460	310
CARTRIDGE PHYSICAL HEIGHT (mm)	840	600	600
TYPICAL WEIR HEIGHT [H] (mm)	920	690	540
CARTRIDGE FLOW RATE FOR ZPG MEDIA (L/s)	1.6	1.1	0.7
CARTRIDGE FLOW RATE FOR PSORB MEDIA (L/s)	0.9	0.46	0.39



STORMFILTER  
CARTRIDGE DETAIL

SITE SPECIFIC  
DATA REQUIREMENTS

STRUCTURE ID	[ ]
NUMBER OF CARTRIDGES REQ'D	3
SIPHON HEIGHT (310 / 460 / 690)	[ ]
MEDIA TYPE (ZPG / PSORB)	[ ]
WATER QUALITY FLOW RATE (L/S)	[ ]
HYDRAULIC CAPACITY (L/S)	90

PIPE DATA:	I.L.	MATERIAL	DIAMETER
INLET PIPE #1	[ ]	[ ]	[ ]
INLET PIPE #2	[ ]	[ ]	[ ]
INLET PIPE #3	[ ]	[ ]	[ ]
OUTLET PIPE	[ ]	[ ]	[ ]

PRECAST MANHOLE WEIGHT	4100kg
PRECAST LID WEIGHT	1100kg

GENERAL NOTES

- PRECAST STRUCTURE SUPPLIED WITH CORE HOLES TO SUIT OUTER DIAMETER OF NOMINATED PIPE SIZE / MATERIAL.
- PRECAST STRUCTURE SHALL MEET W80 WHEEL LOAD RATING ASSUMING A MAXIMUM EARTH COVER OF 2.0m AND A GROUND WATER ELEVATION AT, OR BELOW, THE OUTLET PIPE INVERT ELEVATION. CERTIFYING ENGINEER TO CONFIRM ACTUAL GROUNDWATER ELEVATION. PRECAST STRUCTURE SHALL BE IN ACCORDANCE WITH AS3600.
- IF THE PEAK FLOW RATE, AS DETERMINED BY THE SITE CERTIFYING ENGINEER, EXCEEDS THE PEAK HYDRAULIC CAPACITY OF THE SYSTEM, AN UPSTREAM BYPASS STRUCTURE IS REQUIRED.
- ALL WATER QUALITY TREATMENT DEVICES REQUIRE PERIODIC MAINTENANCE. REFER TO OPERATION AND MAINTENANCE MANUAL FOR GUIDELINES AND ACCESS REQUIREMENTS.
- SITE SPECIFIC PRODUCTION DRAWING WILL BE PROVIDED ON PLACEMENT OF ORDER.
- DRAWING NOT TO SCALE.

INSTALLATION NOTES

- ANY SUB-BASE, BACKFILL DEPTH, AND/OR ANTI-FLOTATION PROVISIONS ARE SITE-SPECIFIC DESIGN CONSIDERATIONS AND SHALL BE SPECIFIED BY CERTIFYING ENGINEER.
- CONTRACTOR TO PROVIDE ALL EQUIPMENT WITH SUFFICIENT LIFTING AND REACH CAPACITY TO LIFT AND SET THE STORMFILTER STRUCTURE (LIFTING DETAIL PROVIDED SEPARATELY).
- CONTRACTOR TO APPLY SEALANT TO ALL JOINTS AND TO PROVIDE, INSTALL AND GROUT INLET AND OUTLET PIPES.



PHONE: 1300 354 722      www.oceanprotect.com.au

OCEAN PROTECT  
3 CARTRIDGE STORMFILTER SYSTEM  
DN1460 MANHOLE  
SPECIFICATION DRAWING

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

Issue internal sequence and revision history			
Issue	Last revision title	by	Date
1-preliminary			
4-tender			
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5-construction			
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QUALITY CONTROL			
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Scales

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obrien  
design+drafting



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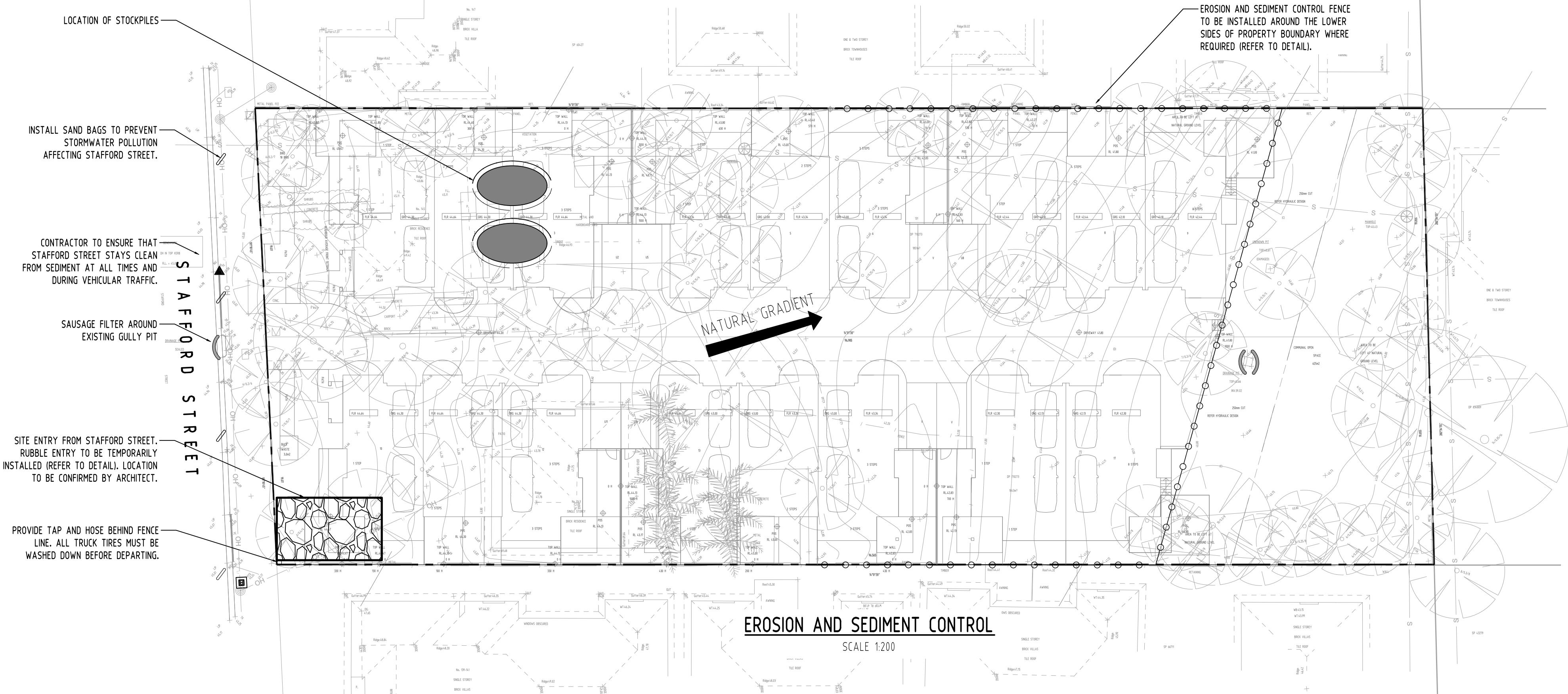
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Grid	Datum	Sheet	Scale (at original size)
-	A.H.D.	5 OF 7	NTS

Drawing Status	PRELIMINARY NOT TO BE USED FOR CONSTRUCTION PURPOSES		
Drawing Title	STORMWATER CONCEPT DESIGN DETAILS SHEET SHEET 2 OF 2		
Project No	Drawing No	Revision No	
20210226	SW301	A	



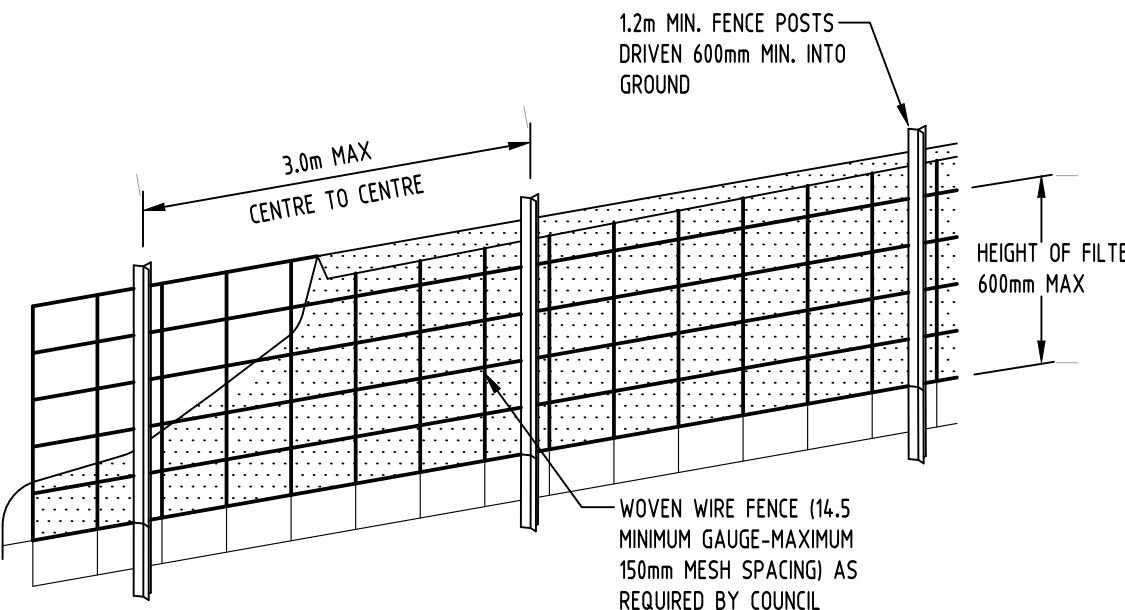


### EROSION & SEDIMENTATION CONTROL NOTES

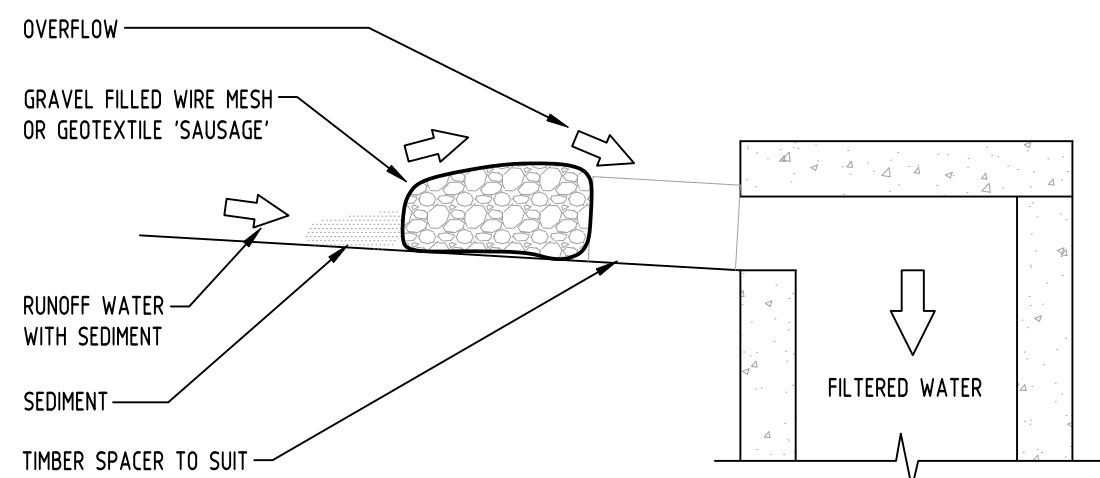
1. CONTRACTOR SHALL PROVIDE SEDIMENT FENCING MATERIAL DURING CONSTRUCTION TO THE LOW SIDE OF THE WORKS. TIE SEDIMENT FENCING MATERIAL TO CYCLONE WIRE SECURITY FENCE. SEDIMENT CONTROL FABRIC SHALL BE AN APPROVED MATERIAL (E.G. HUMES PROPEX SILT STOP) STANDING 300mm ABOVE GROUND & EXTENDING 150mm BELOW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

### 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
1. 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.

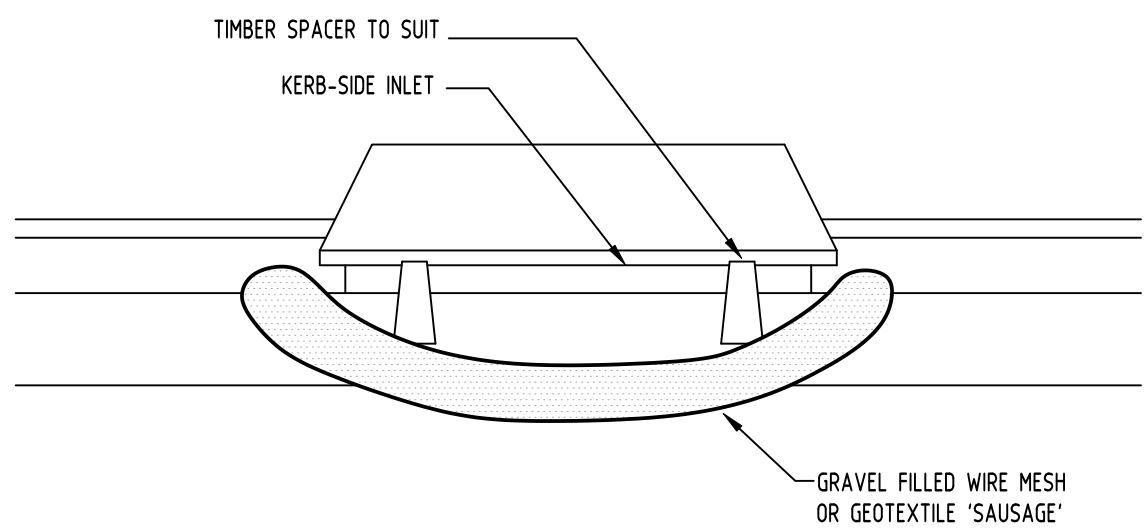


DIAGRAMMATIC VIEW



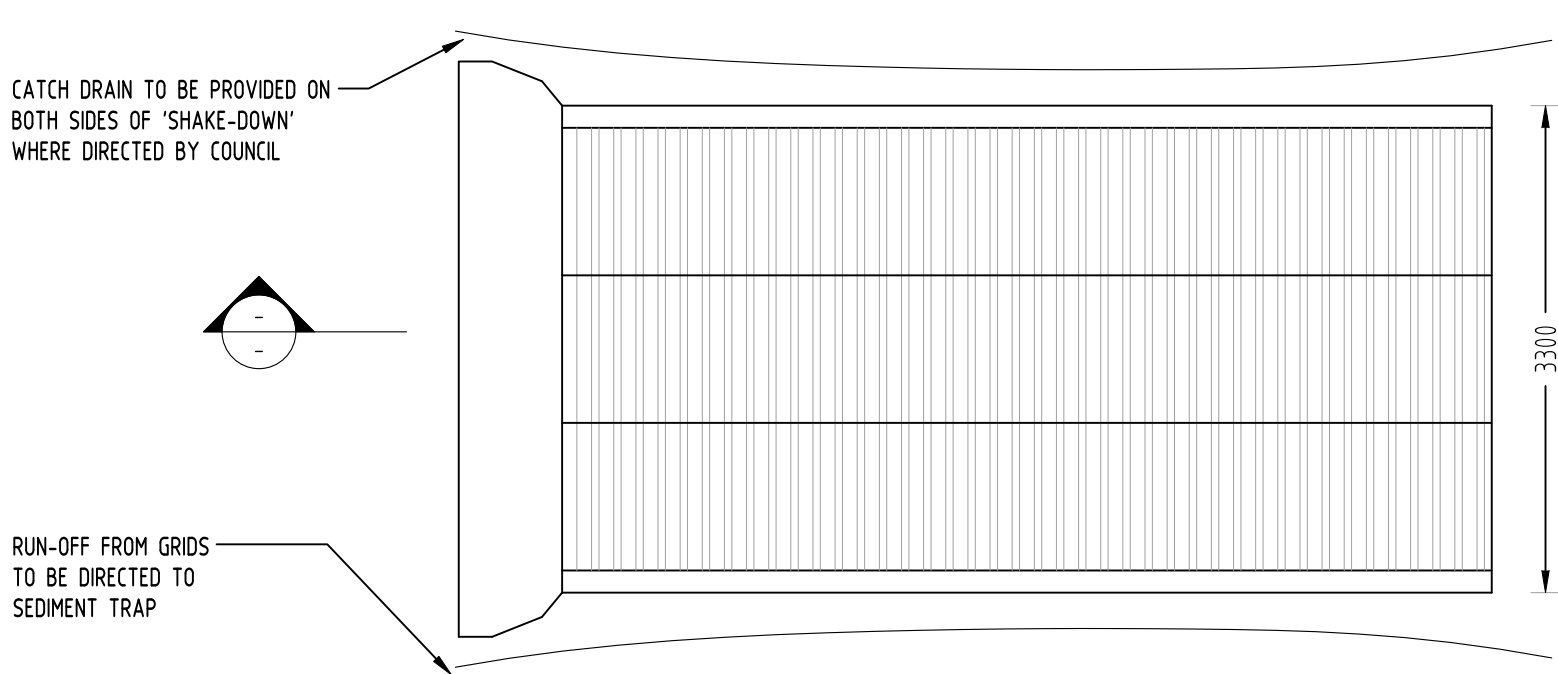
GRAVEL INLET FILTER (SAUSAGE)

NOT TO SCALE

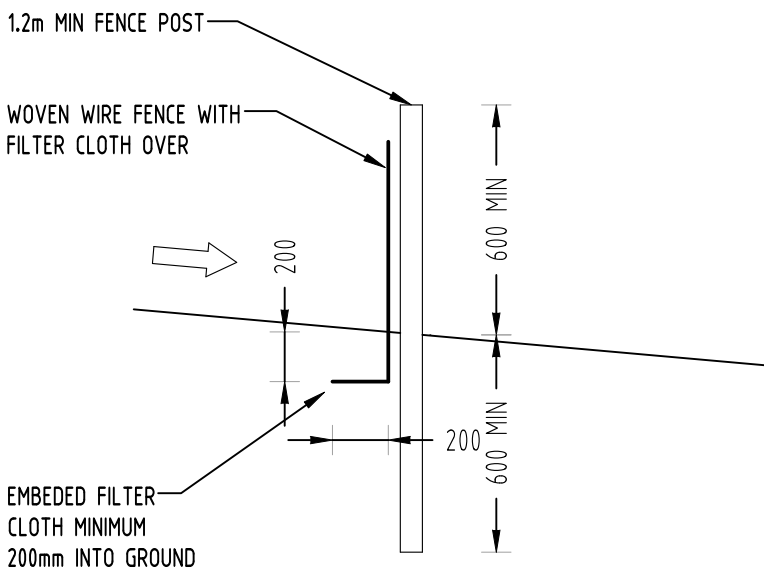


#### CONSTRUCTION NOTES:

- 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



PLAN VIEW



TYPICAL SECTION

### SEDIMENT FENCE

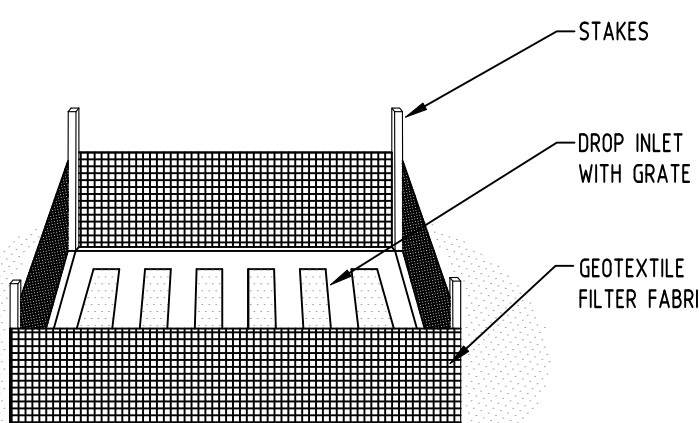
NOT TO SCALE

### 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.

### LEGEND

- ○ ○ SEDIMENT FENCE
- STABILISED SITE ACCESS
- SANDBAGS



GEOTEXTILE INLET FILTER

NOT TO SCALE

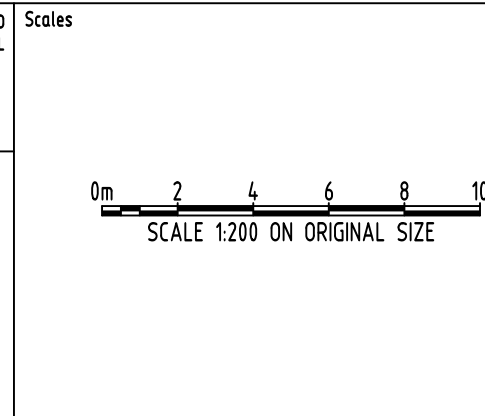
Reference Coordination Drawing			
Discipline	Drawing Title and Number	Date	Rev.
ARCH			
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FIRE			
LANDS			
CIVIL			
SURVEY			

	ENGINEERS AUSTRALIA	
	MEMBER	

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 DISCUSSION/CLARIFICATION BEFORE PROCEEDING WITH THE WORK. THIS DRAWING IS TO BE READ IN CONJUNCTION WITH THE SPECIFICATIONS AND OTHER CONSULTANTS' DRAWINGS.

QUALITY CONTROL			
DRAWN	SC	DATE	06.12.21
CHECKED	SH	DATE	06.12.21
DESIGNED	SC	DATE	06.12.21
VERIFIED	SH	DATE	06.12.21
APPROVED	SH	DATE	06.12.21

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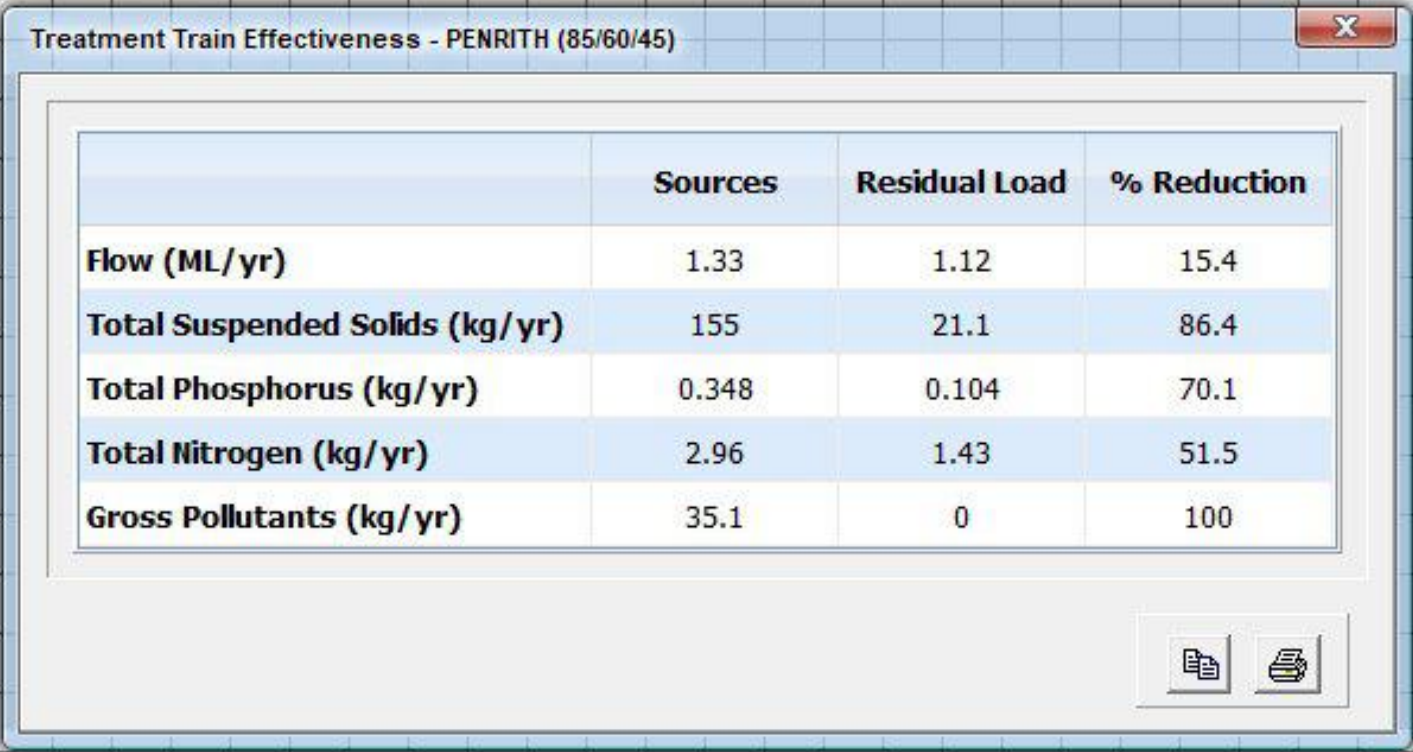
PROJECT  
**PROPOSED MULTI-DWELLING DEVELOPMENT**  
143 STAFFORD STREET,  
PENRITH NSW 2750.

Drawing Status	PRELIMINARY		
	NOT TO BE USED FOR CONSTRUCTION PURPOSES		
Drawing Title	<b>EROSION AND SEDIMENT CONTROL</b>		
	PLAN AND DETAILS		
Project No	Drawing No	Revision No	
<b>20210226</b>	<b>SW400</b>	<b>A</b>	


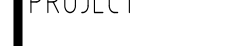





SCALE 1:200



## MUSIC MODEL DIAGRAM AND RESULTS

Reference Coordination Drawing										 ENGINEERS AUSTRALIA Professional Engineer MEMBER										QUALITY CONTROL										WARNING: THE DESIGNS, DRAWINGS, SPECIFICATIONS AND THE COPYRIGHT HEREIN REMAIN THE SOLE INTELLECTUAL PROPERTY OF SGC CONSULTANTS PTY LTD AND MUST NOT BE USED, COPIED, ALTERED OR REPRODUCED WHOLLY OR IN PART IN ANY FORM WITHOUT THE WRITTEN CONSENT OF SGC CONSULTANTS PTY LTD										Scales										CLIENT										ARCHITECT										 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. 21 218 222 530										PROJECT										Drawing Status										Drawing Title										Project No										Drawing No										Revision No																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																							
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