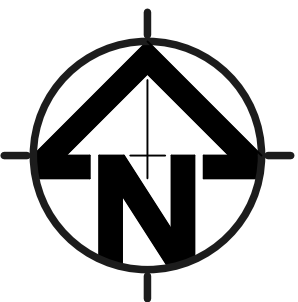


PROPOSED RESIDENTIAL DEVELOPMENT & SUBDIVISION

806-812 WINDSOR ROAD, ROUSE HILL N.S.W.

STORMWATER DRAINAGE DCESIGN



DRAWINGS LIST			
SHEET No.	DWG No.	TITLE	REV
1	SW100	COVER SHEET	B
2	SW200	STORMWATER CONCEPT DESIGN - BASEMENT 2 PLAN - BLOCK A	B
3	SW201	STORMWATER CONCEPT DESIGN - GROUND FLOOR PLAN - BLOCK A	B
4	SW210	STORMWATER CONCEPT DESIGN - BASEMENT 2 PLAN - BLOCK B	B
5	SW211	STORMWATER CONCEPT DESIGN - GROUND FLOOR PLAN - BLOCK B	B
6	SW220	STORMWATER CONCEPT DESIGN - BASEMENT 1 PLAN - BLOCK C	B
7	SW221	STORMWATER CONCEPT DESIGN - GROUND FLOOR PLAN - BLOCK C	B
8	SW300	STORMWATER CONCEPT DESIGN - DETAILS SHEET - SHEET 1 OF 6	B
9	SW301	STORMWATER CONCEPT DESIGN - DETAILS SHEET - SHEET 2 OF 6	B
10	SW302	STORMWATER CONCEPT DESIGN - DETAILS SHEET - SHEET 3 OF 6	B
11	SW303	STORMWATER CONCEPT DESIGN - DETAILS SHEET - SHEET 4 OF 6	B
12	SW304	STORMWATER CONCEPT DESIGN - DETAILS SHEET - SHEET 5 OF 6	B
13	SW305	STORMWATER CONCEPT DESIGN - DETAILS SHEET - SHEET 6 OF 6	B
14	SW400	EROSION AND SEDIMENT CONTROL - PLAN	B
15	SW401	EROSION AND SEDIMENT CONTROL - DETAILS	B
16	SW500	STORMWATER CONCEPT DESIGN - MUSIC CATCHMENT PLAN - SHEET 1 OF 2	B
17	SW501	STORMWATER CONCEPT DESIGN - MUSIC CATCHMENT PLAN - SHEET 2 OF 2	B

LOCALITY PLAN
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0m 20 40 60 80 100
SCALE 1: 2000 ON ORIGINAL SIZE



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S&G CONSULTANTS PTY. LTD.
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

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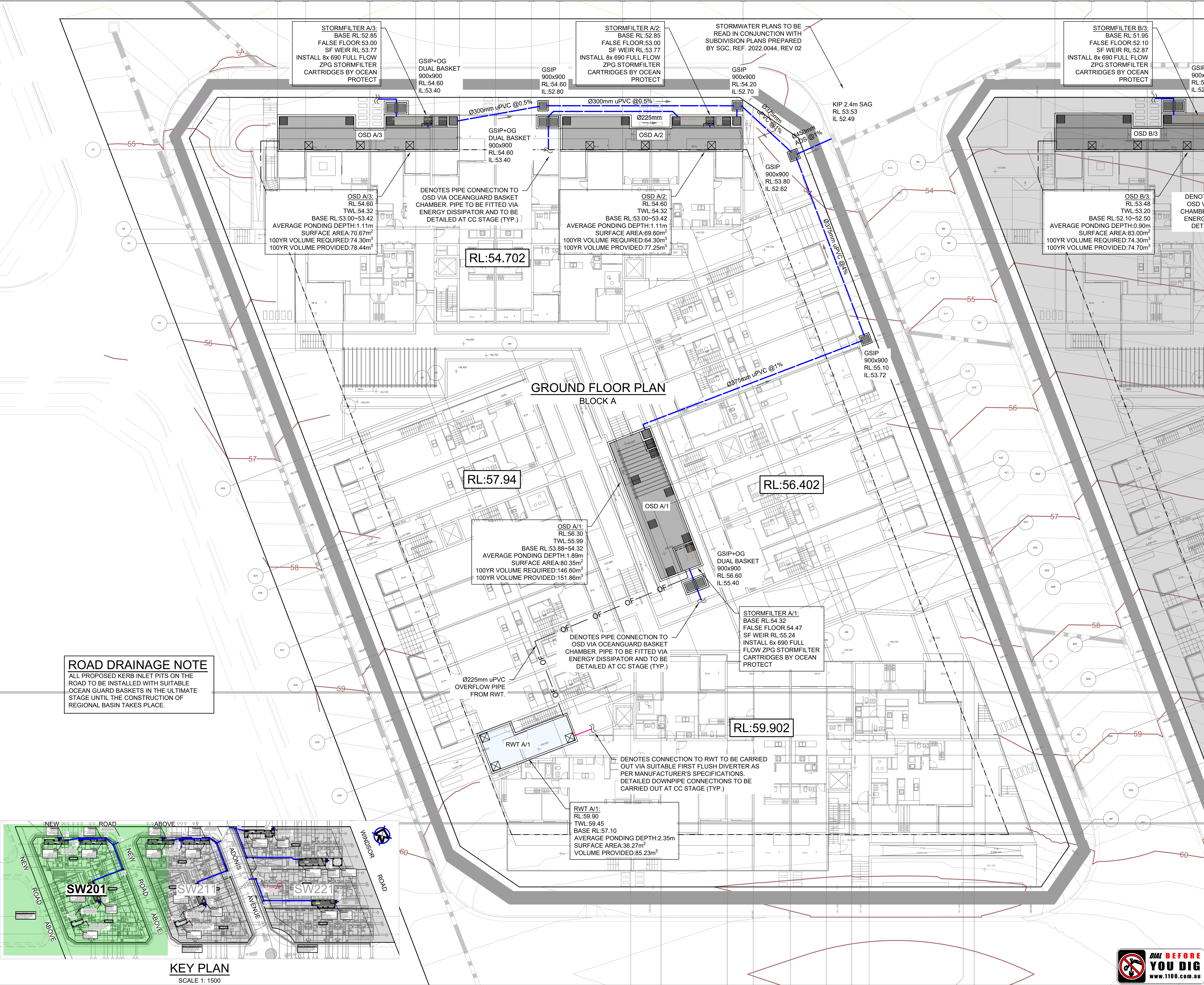
CLIENT :

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A1

DATE PLOTTED: 7 March 2023 6:45 PM BY: MOHAMMADSOVAADCHOWDH

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Revision History			
No.	Description	Date	By
B	ISSUE FOR APPROVAL	SC 07.03.23	2
A	ISSUE FOR APPROVAL	SC 07.11.22	2
P3	PRELIMINARY ISSUE	SC 03.11.22	1
P2	PRELIMINARY ISSUE	SC 02.11.22	1
P1	PRELIMINARY ISSUE	SC 01.11.22	1
Nc	Last revision title	By	Date

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

QUALITY CONTROL			
Discipline	Checked By	Date	Rev.
DRAWN	SC	DATE 07.03.23	
CHECKED	SH	DATE 07.03.23	
DESIGNED	SC	DATE 07.03.23	
VERIFIED	SH	DATE 07.03.23	
APPROVED	SH	DATE 07.03.23	

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ARCHITECT

FUSE ARCHITECTS

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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. 21 118 222 530

PROJECT

PROPOSED RESIDENTIAL DEVELOPMENT
& SUBDIVISION
806-812 WINDSOR ROAD, ROUSE HILL
N.S.W.

Drawing Title

STORMWATER CONCEPT DESIGN
GROUND FLOOR PLAN - BLOCK A

Project No	Drawing No	Revision No
20220044	SW201	B

Sheet	Scale	Grid	Datum
3 OF 17		MGA 56	A.H.D.

Drawing Status

PRELIMINARY
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CONSTRUCTION PURPOSES

Scales

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SCALE 1: 200 ON ORIGINAL SIZE

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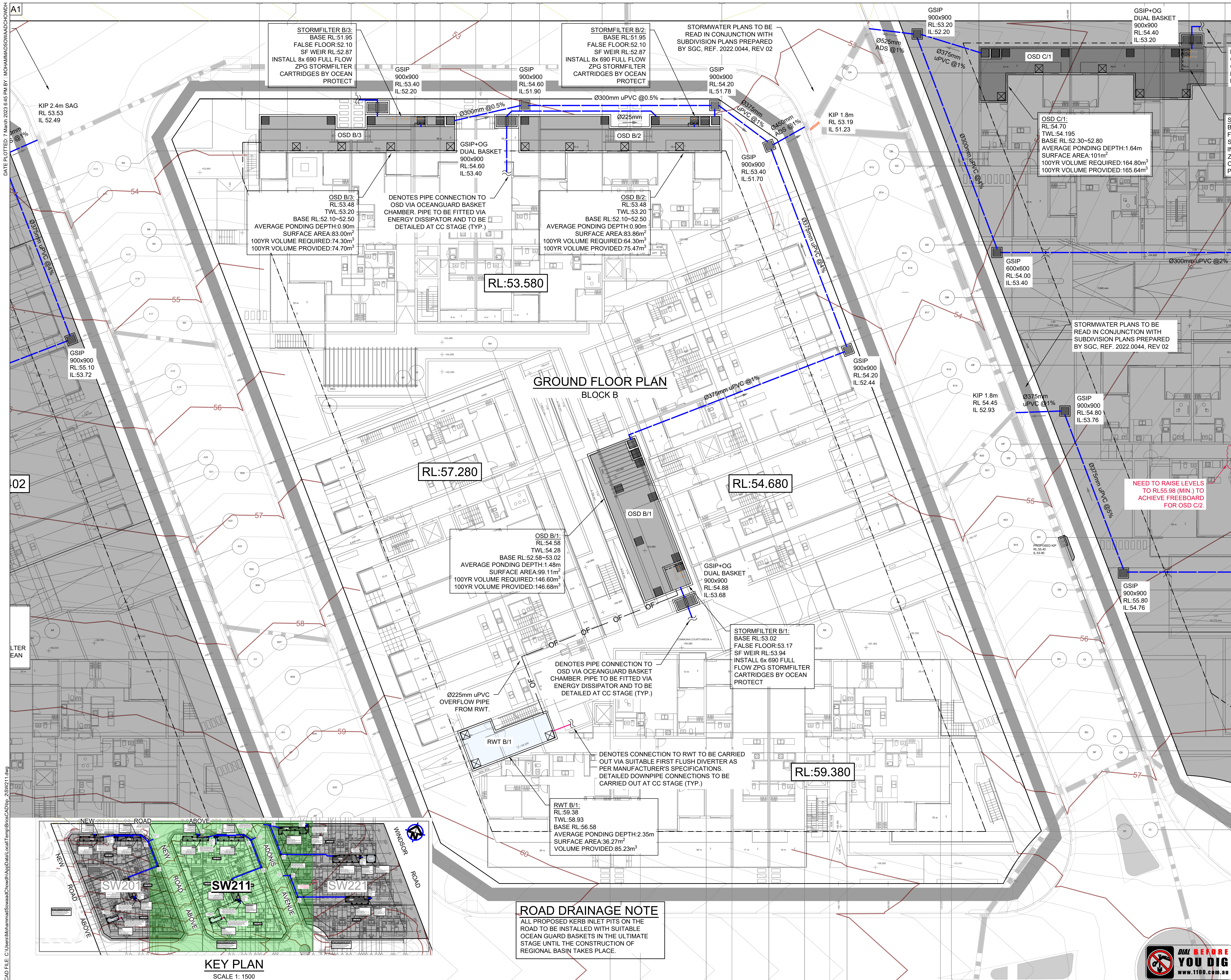
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ALTER
PLAN

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No.	Issue	Issued By	Date	Status
B	ISSUE FOR APPROVAL	SC	07.03.23	2
A	ISSUE FOR APPROVAL	SC	07.11.22	2
P3	PRELIMINARY ISSUE	SC	03.11.22	1
P2	PRELIMINARY ISSUE	SC	02.11.22	1
P1	PRELIMINARY ISSUE	SC	01.11.22	1
Nr	Last revision title	By	Date	Status

Issuer internal sequence and revision history

1- preliminary
4- tender
2- development application
5- construction
3- construction certificate
6- other (specify)

Reference Coordination Drawing

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

QUALITY CONTROL

Drawn	SC	Date	07.03.23
Checked	SH	Date	07.03.23
Designed	SC	Date	07.03.23
Verified	SH	Date	07.03.23
Approved	SH	Date	07.03.23

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Email: office@sgce.com.au
Web: www.sgce.com.au

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PROJECT
PROPOSED RESIDENTIAL DEVELOPMENT
& SUBDIVISION
806-812 WINDSOR ROAD, ROUSE HILL
N.S.W.

Drawing Title
STORMWATER CONCEPT DESIGN
GROUND FLOOR PLAN - BLOCK B

Project No	Drawing No	Revision No
20220044	SW211	B

Sheet	Scale	Grid	Datum
5 OF 17		MGA 56	A.H.D.

Drawing Status
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Scales

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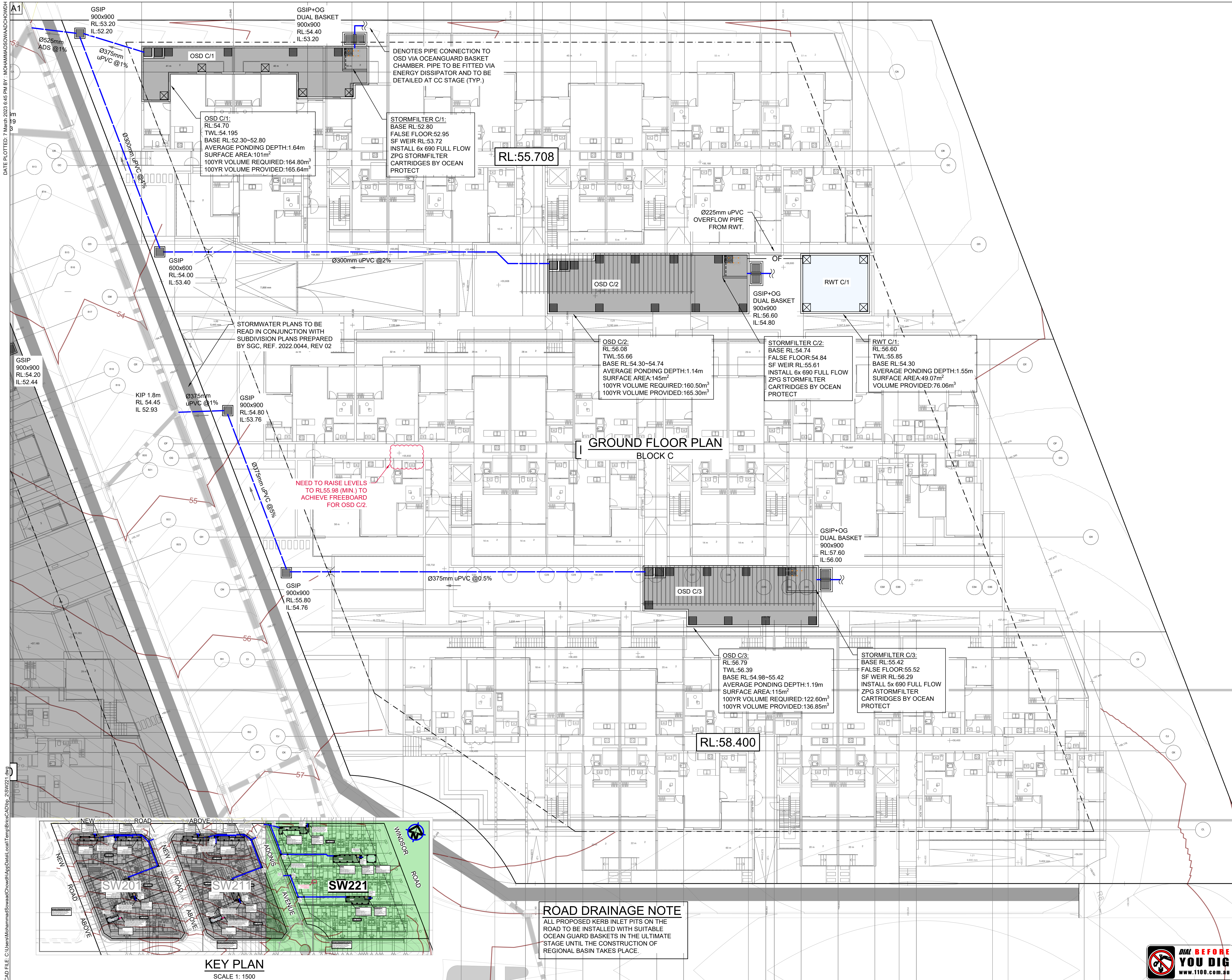


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ISSUE FOR APPROVAL			
No.	Description	Date	Status
B	ISSUE FOR APPROVAL	SC 07.03.23	2
A	ISSUE FOR APPROVAL	SC 07.11.22	2
P3	PRELIMINARY ISSUE	SC 03.11.22	1
P2	PRELIMINARY ISSUE	SC 02.11.22	1
P1	PRELIMINARY ISSUE	SC 01.11.22	1
Last revision title		By	Date

Issuer internal sequence and revision history
1- preliminary 2- development application 3- construction certificate
4- tender 5- construction 6- other (specify)

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

QUALITY CONTROL			
Discipline	Checked By	Date	Rev.
DRAWN	SC	DATE 07.03.23	
CHECKED	SH	DATE 07.03.23	
DESIGNED	SC	DATE 07.03.23	
VERIFIED	SH	DATE 07.03.23	
APPROVED	SH	DATE 07.03.23	

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SGC
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156 PACIFIC HIGHWAY
ST. LEONARDS, NSW 2065
T: +61 2 8883 4239
Email: office@sgce.com.au
Web: www.sgce.com.au
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PROJECT
PROPOSED RESIDENTIAL DEVELOPMENT
& SUBDIVISION
806-812 WINDSOR ROAD, ROUSE HILL
N.S.W.
Drawing Title
STORMWATER CONCEPT DESIGN
GROUND FLOOR PLAN - BLOCK C

Project No	Drawing No	Revision No
20220044	SW221	B

Sheet	Scale	Grid	Datum
7 OF 17		MGA 56	A.H.D.

Drawing Status
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Scales
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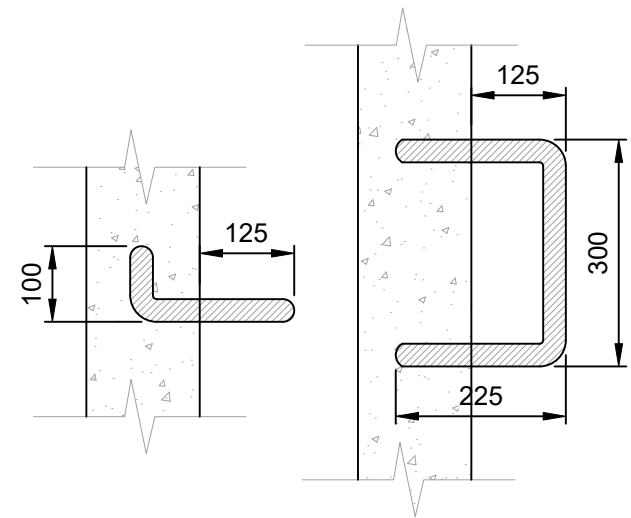
ROAD DRAINAGE NOTE
ALL PROPOSED KERB INLET PITS ON THE ROAD TO BE INSTALLED WITH SUITABLE OCEAN GUARD BASKETS IN THE ULTIMATE STAGE UNTIL THE CONSTRUCTION OF REGIONAL BASIN TAKES PLACE.

KEY PLAN
SCALE 1: 1500

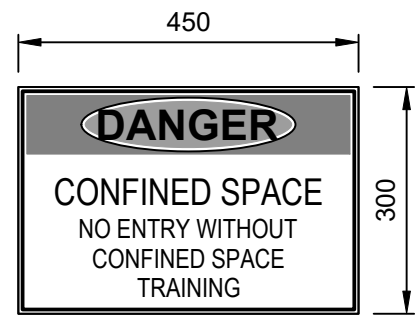
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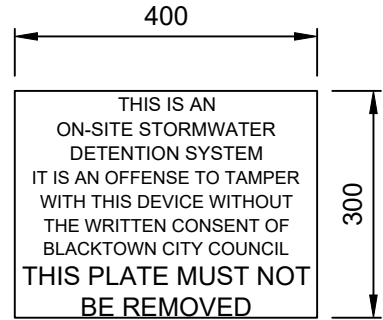
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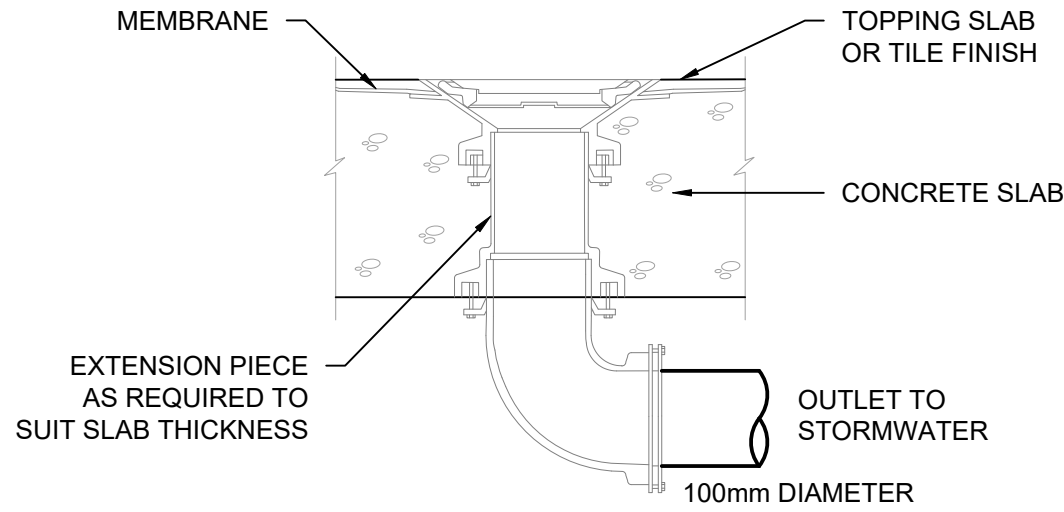
STEP IRONS
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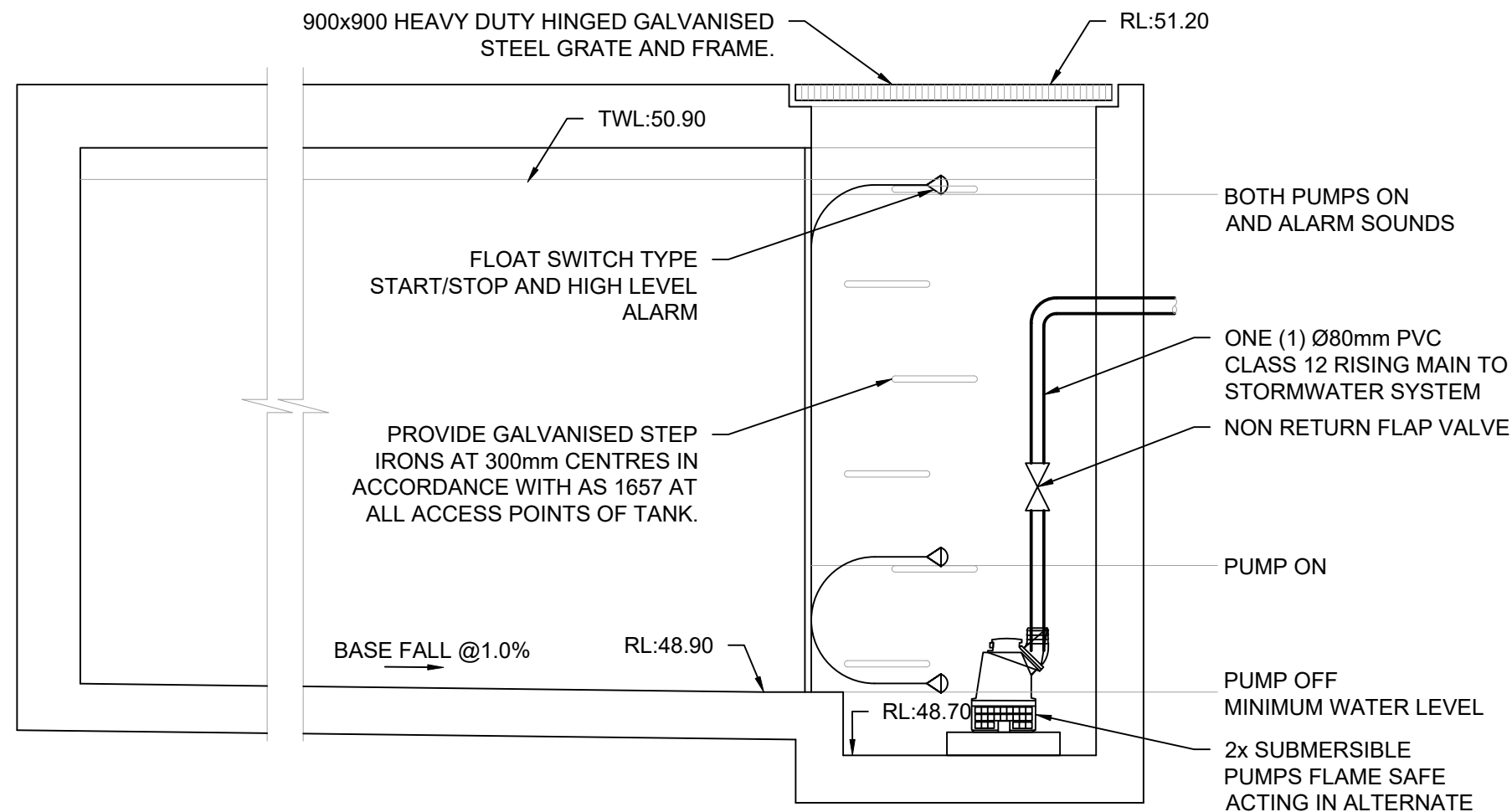
CONFINED SPACE SIGN
NTS



OSD SIGN
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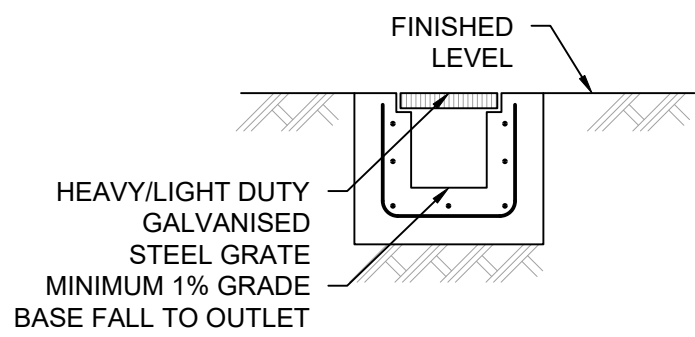
RAINWATER OUTLET
N.T.S.



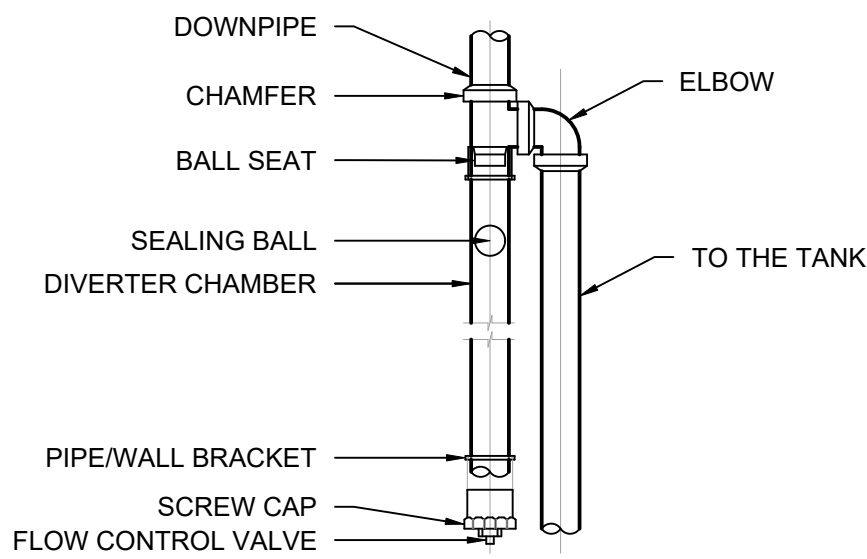
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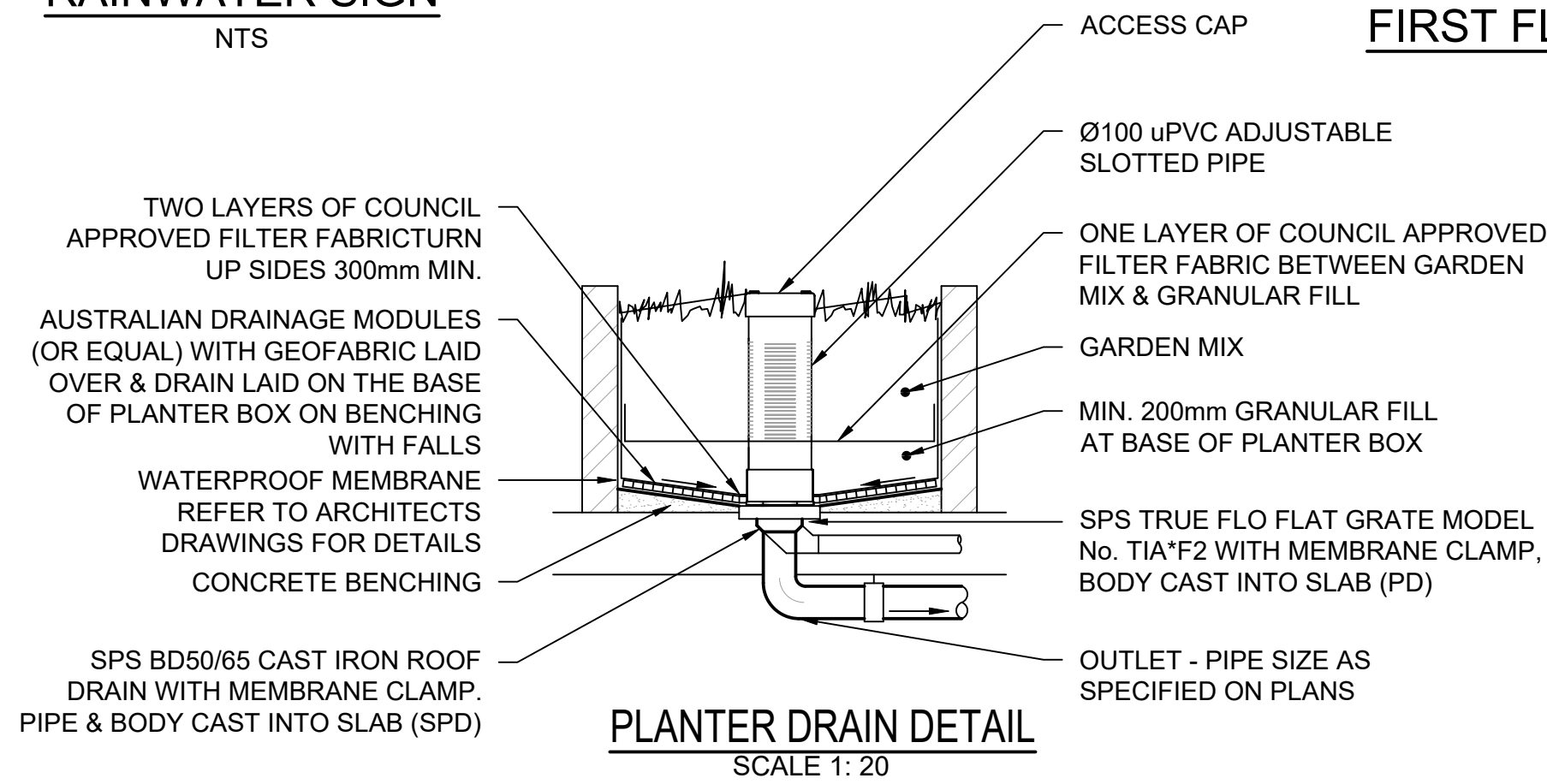
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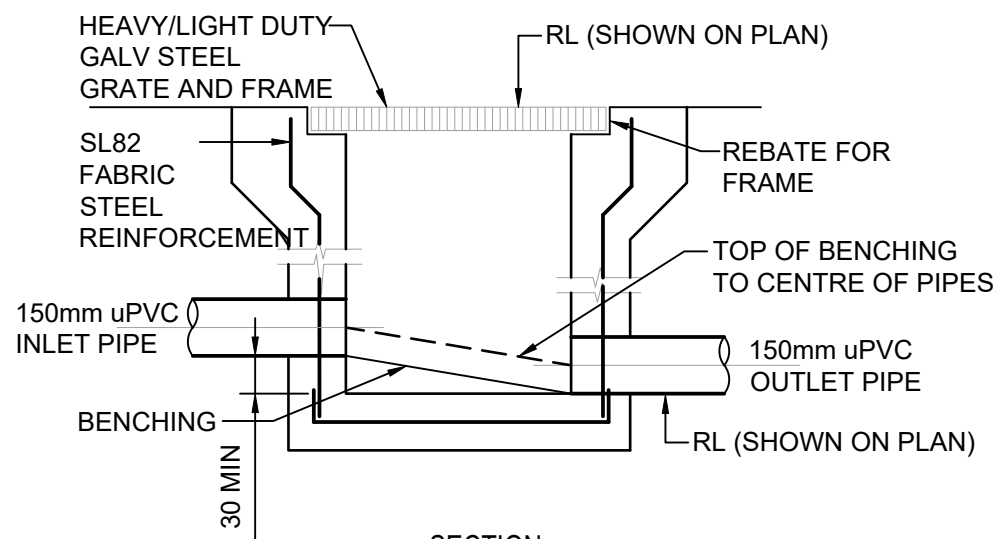
GRATED TRENCH DRAIN
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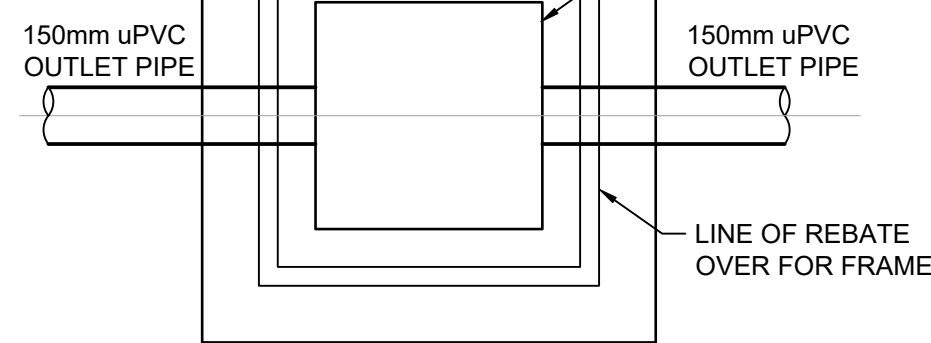
FIRST FLUSH DIVERTER
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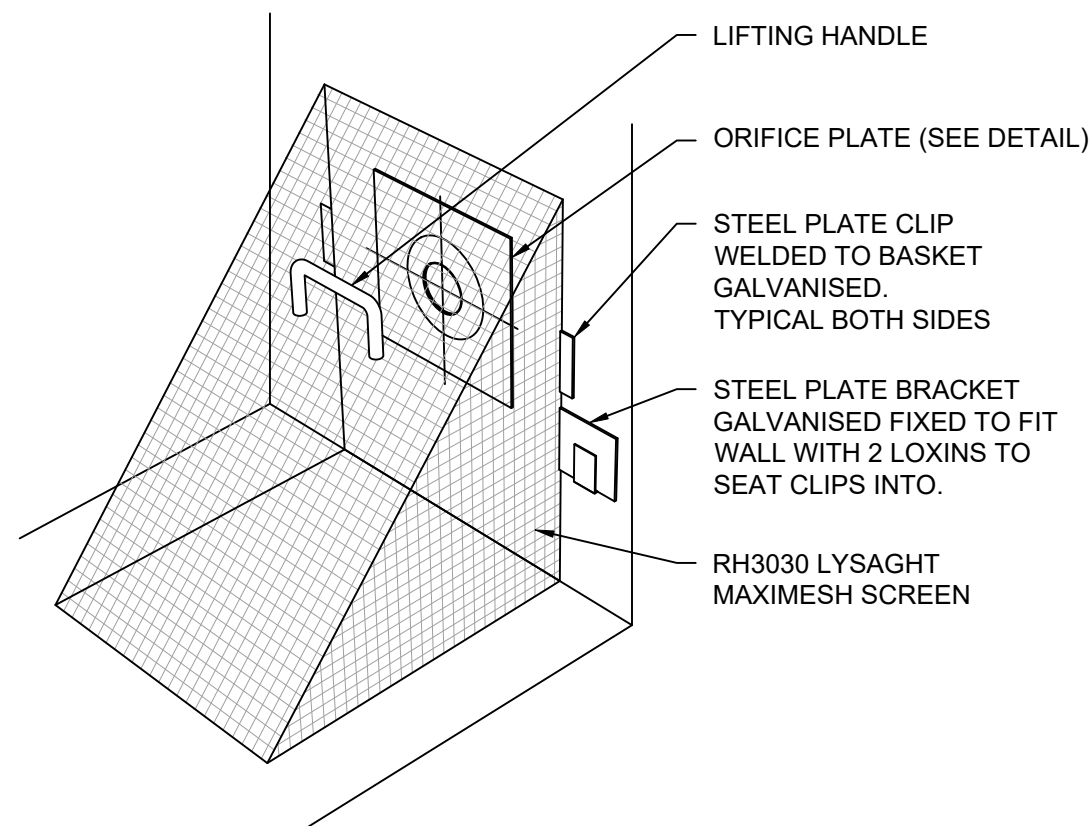
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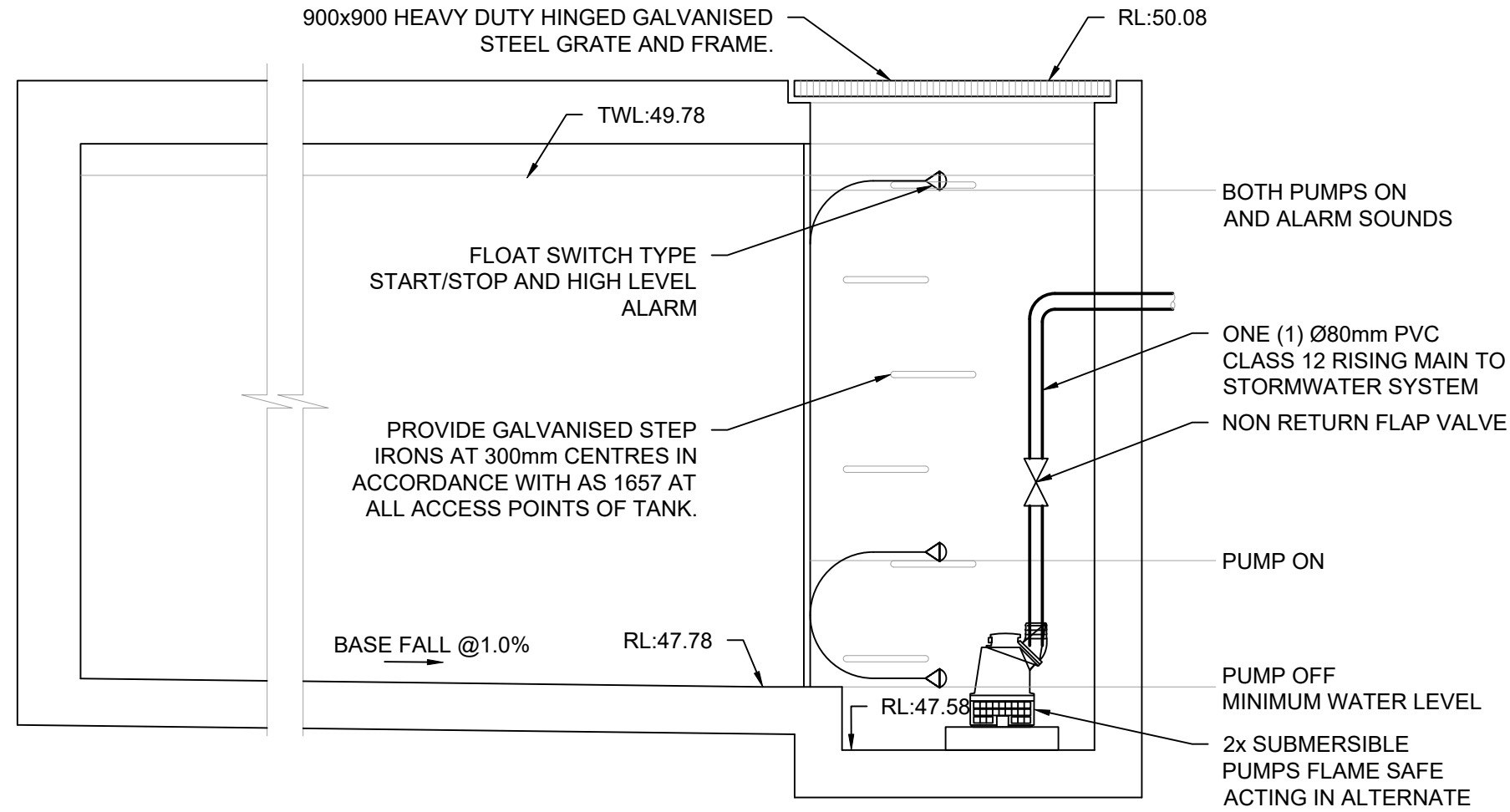
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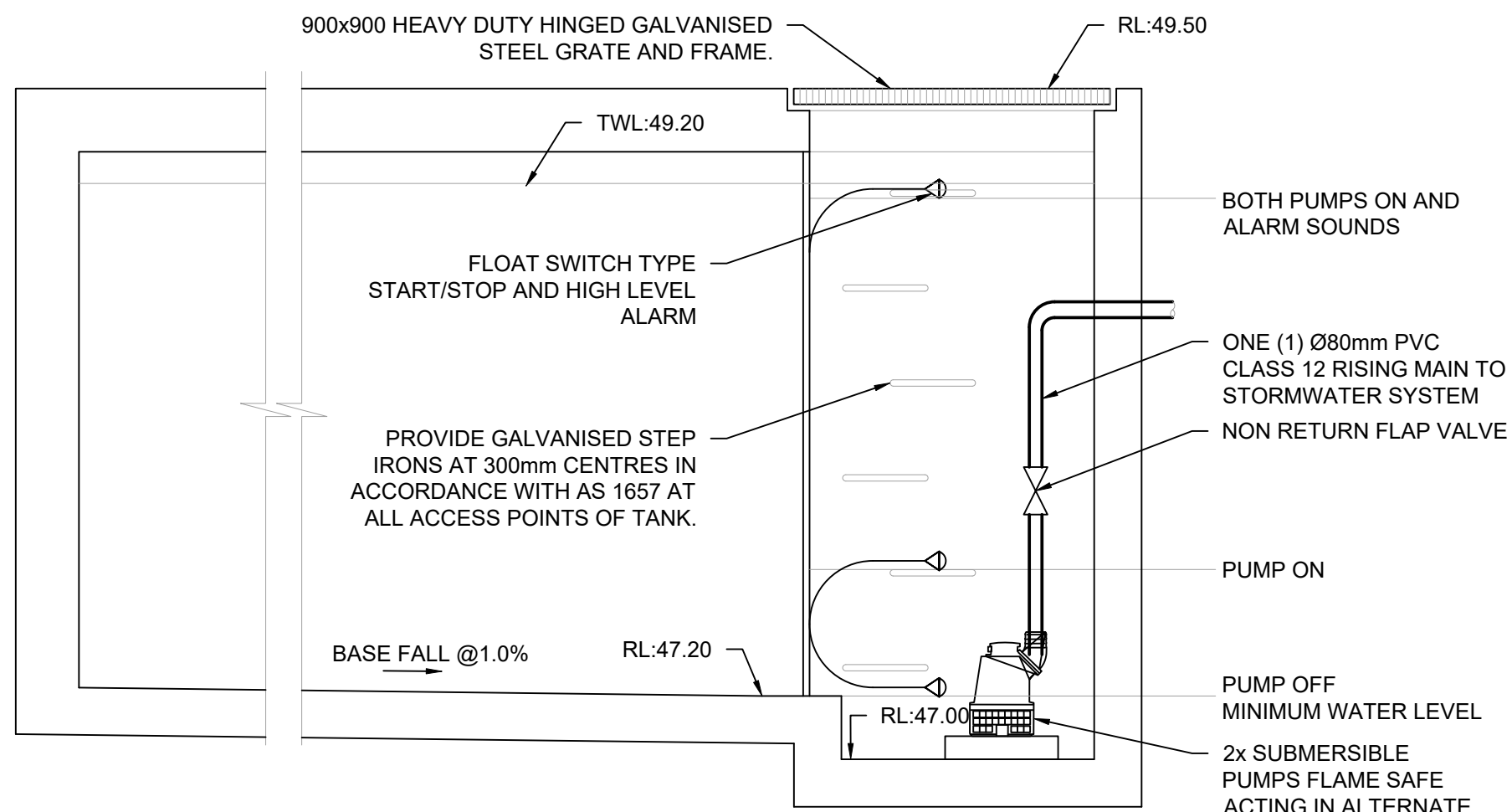
PLAN WITHOUT GRATE
STORMWATER PIT
NTS



DEBRIS SCREEN
N.T.S.



SUBSOIL PUMP OUT PIT (BLOCK-B)
NTS



SUBSOIL PUMP OUT PIT (BLOCK-C)
NTS

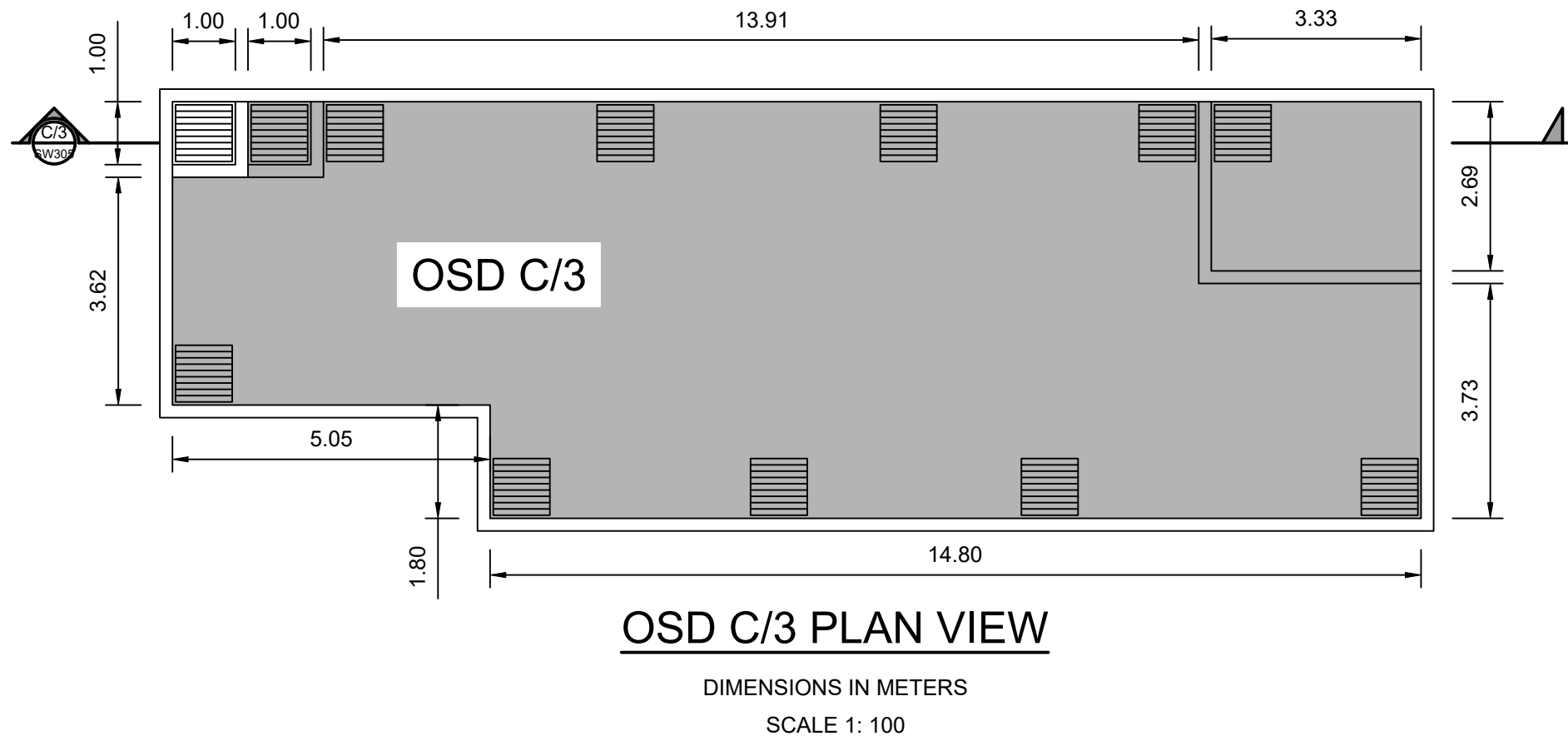
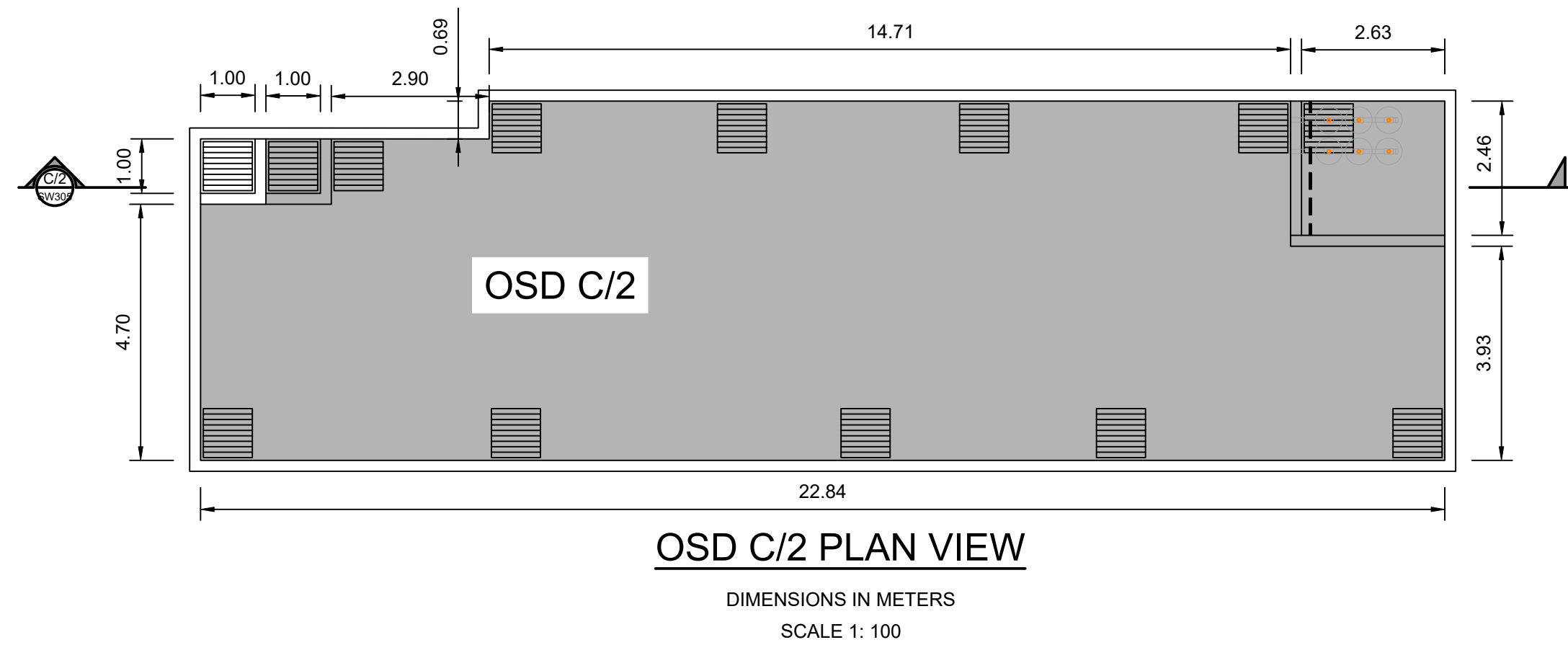
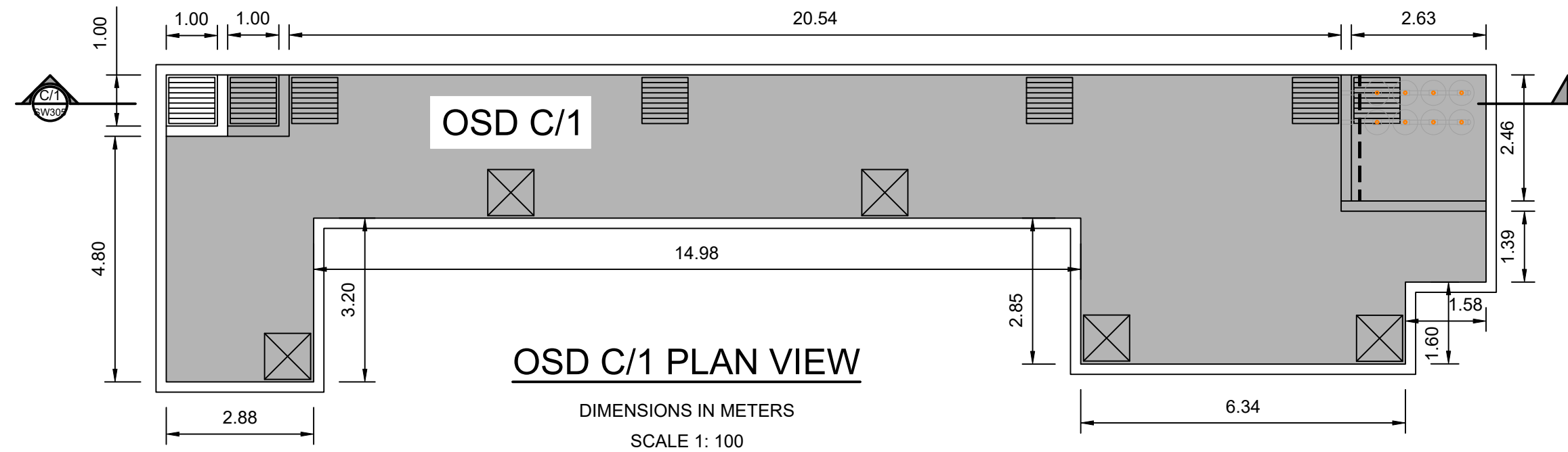
LEGEND

---	EXISTING BOUNDARY
---	STORMWATER LINE
---	STORMWATER LINE TO RAINWATER TANK
---	SUBSOIL LINE
---	STORMWATER RISING MAIN
---	GRATED SURFACE INLET PIT
---	JUNCTION PIT
---	GRATED TRENCH DRAIN
---	RAINWATER OUTLET
---	CLEAR OUT POINT
---	DISH DRAIN OUTLET
---	PLANTER DRAIN
---	DOWNPIPE DROP
---	WALL PENETRATION
---	DOWNPIPE
---	WARNING LIGHT
---	SPOT LEVEL
---	ROOF OUTLINE
---	BASEMENT OUTLINE

DESIGN NOTES:

THE PROPOSAL IS FOR THREE SEPERATE RESIDENTIAL LOTS LOCATED WITHIN BLACKTOWN CITY COUNCIL.

BLOCK AREAS:
BLOCK A= 6269m²
BLOCK B= 6269m²
BLOCK C=



Below Ground OSD Summary with calculated values	
Site:	
Site Area	3621 m ²
Site Area NOT Draining to OSD	243 m ²
Reduced Levels (AHD):	
RL of Top of Tank	54.3
RL of Bottom of OSD Tank	52.55
RL of 1.5 Year ARI Overflow Weir	53.635
RL of Emergency Overflow Weir	54.195
RL of 1.5 Year ARI Orifice Centerline	52.36
RL of 100 Year ARI Orifice Centerline	52.37
RL of Invert of Discharge to Council Drainage Pit	51.11
RL of obvert of Pit outlet pipe	51.935
Minium RL of Garage Floor	54.39
Minium RL of House Floor	54.49
OSD Volume:	
Required Storage BELOW 1.5 Year ARI Overflow Weir	108.6 m ³
Required Storage BELOW Emergency Overflow Weir	164.8 m ³
Discharge Details:	
Using Filter Cartridges to Manage Water Quality	Yes
Discharge Location	Council Drainage Pit
Length of Emergency Overflow Weir	2.80 m
Maximum 1.5 Year ARI Site Discharge	13.03 L/s
1.5 Year ARI Orifice Discharge	3.00 L/s
Maximum 100 Year ARI Site Discharge	55.19 L/s
100 Year ARI Orifice Discharge	42.24 L/s
Filter Cartridges design flow	10.03 L/s
Filter Cartridges Discharge with Additional Head	12.35 L/s
Orifice Details:	
Number of 1.5 Year ARI Orifices	1
Number of 100 Year ARI Orifices	1
1.5 Year ARI Orifice Size (mm)	35.5 mm
100 Year ARI Orifice Size (mm)	121.5 mm
Notifications:	
Access gates to be provided such that the maximum reach from any point in the tank to the nearest grate is 4.0m.	

OSD C/1

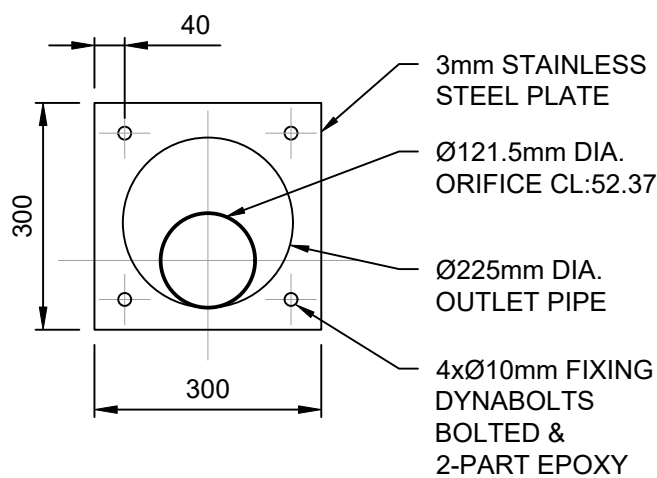
Below Ground OSD Summary with calculated values	
Site:	
Site Area	3527 m ²
Site Area NOT Draining to OSD	168 m ²
Reduced Levels (AHD):	
RL of Top of Tank	55.78
RL of Bottom of OSD Tank	54.52
RL of 1.5 Year ARI Overflow Weir	55.275
RL of Emergency Overflow Weir	55.665
RL of 1.5 Year ARI Orifice Centerline	54.37
RL of 100 Year ARI Orifice Centerline	54.38
RL of Invert of Discharge to Council Drainage Pit	51.11
RL of obvert of Pit outlet pipe	51.935
Minium RL of Garage Floor	55.87
Minium RL of House Floor	55.97
OSD Volume:	
Required Storage BELOW 1.5 Year ARI Overflow Weir	105.8 m ³
Required Storage BELOW Emergency Overflow Weir	160.5 m ³
Discharge Details:	
Using Filter Cartridges to Manage Water Quality	Yes
Discharge Location	Council Drainage Pit
Length of Emergency Overflow Weir	2.40 m
Maximum 1.5 Year ARI Site Discharge	13.10 L/s
1.5 Year ARI Orifice Discharge	3.04 L/s
Maximum 100 Year ARI Site Discharge	57.61 L/s
100 Year ARI Orifice Discharge	47.00 L/s
Filter Cartridges design flow	10.06 L/s
Filter Cartridges Discharge with Additional Head	10.61 L/s
Orifice Details:	
Number of 1.5 Year ARI Orifices	1
Number of 100 Year ARI Orifices	1
1.5 Year ARI Orifice Size (mm)	39.0 mm
100 Year ARI Orifice Size (mm)	140.0 mm
Notifications:	
Access gates to be provided such that the maximum reach from any point in the tank to the nearest grate is 3.0m.	

OSD C/2

Below Ground OSD Summary with calculated values	
Site:	
Site Area	2635 m ²
Site Area NOT Draining to OSD	130 m ²
Reduced Levels (AHD):	
RL of Top of Tank	56.49
RL of Bottom of OSD Tank	55.2
RL of 1.5 Year ARI Overflow Weir	55.99
RL of Emergency Overflow Weir	56.395
RL of 1.5 Year ARI Orifice Centerline	55.04
RL of 100 Year ARI Orifice Centerline	55.06
RL of Invert of Discharge to Council Drainage Pit	52.93
RL of obvert of Pit outlet pipe	53.68
Minium RL of Garage Floor	56.58
Minium RL of House Floor	56.68
OSD Volume:	
Required Storage BELOW 1.5 Year ARI Overflow Weir	80.9 m ³
Required Storage BELOW Emergency Overflow Weir	122.6 m ³
Discharge Details:	
Using Filter Cartridges to Manage Water Quality	Yes
Discharge Location	Council Drainage Pit
Length of Emergency Overflow Weir	2.40 m
Maximum 1.5 Year ARI Site Discharge	10.00 L/s
1.5 Year ARI Orifice Discharge	1.64 L/s
Maximum 100 Year ARI Site Discharge	43.93 L/s
100 Year ARI Orifice Discharge	34.95 L/s
Filter Cartridges design flow	8.36 L/s
Filter Cartridges Discharge with Additional Head	8

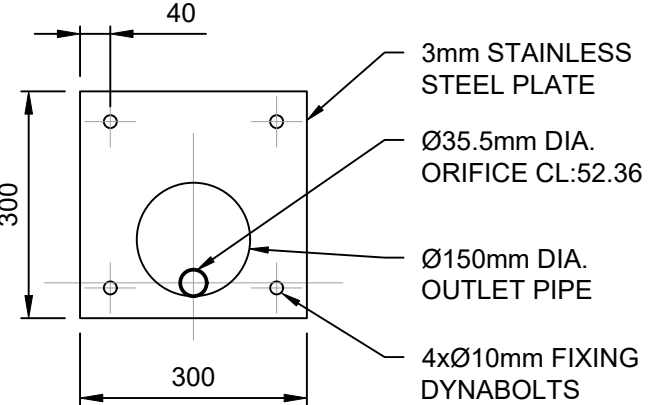
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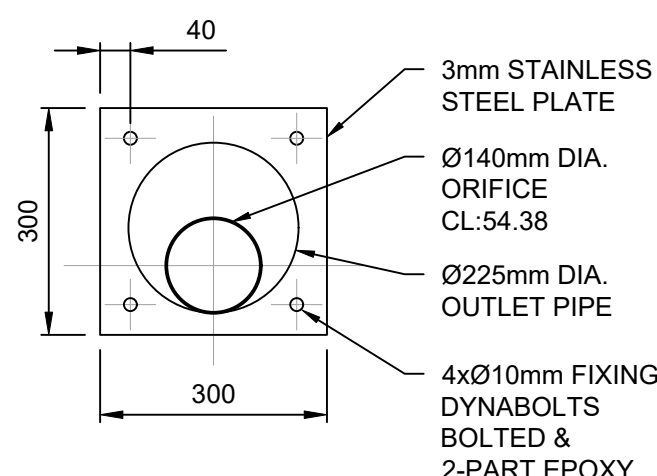
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SCALE 1: 10



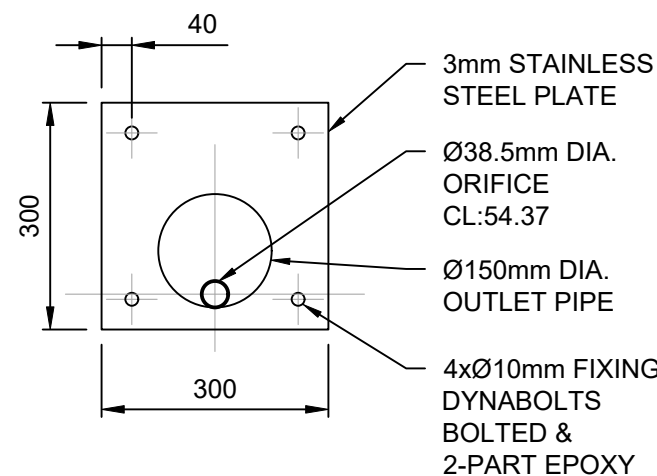
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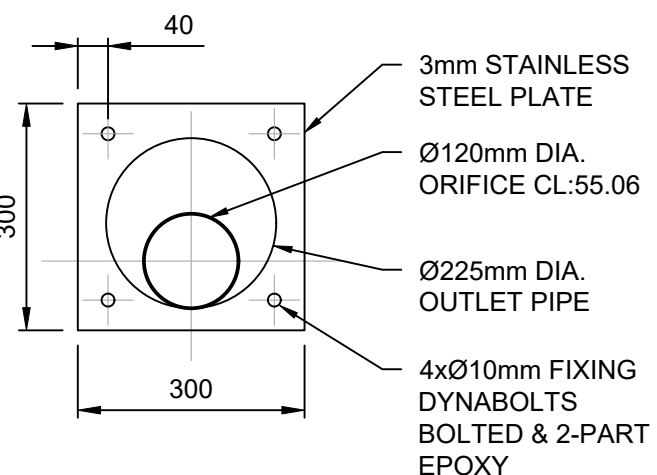
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SCALE 1: 10



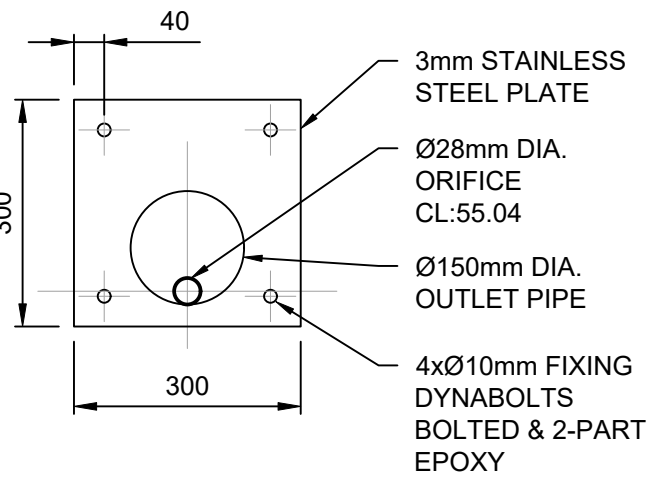
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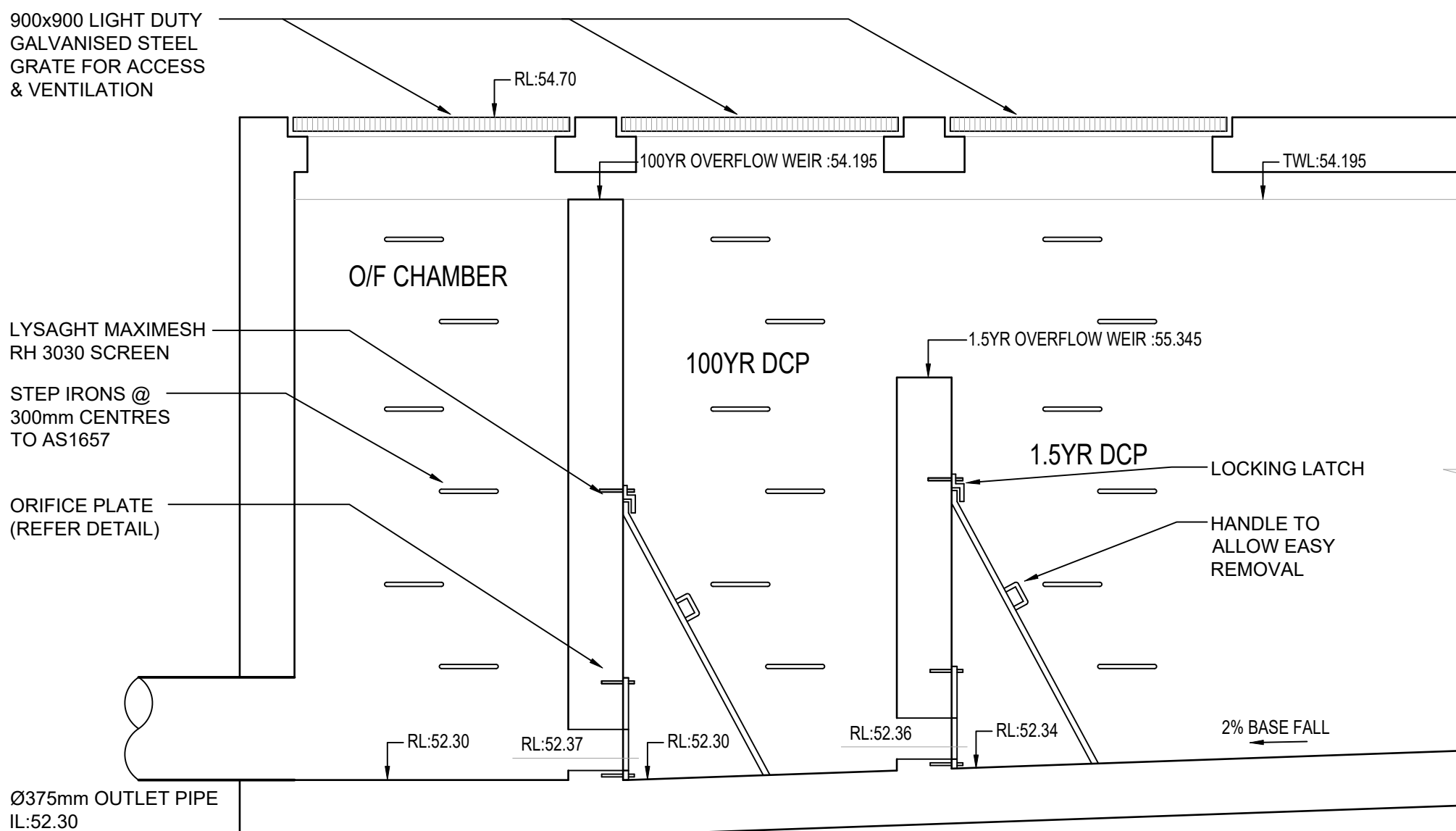
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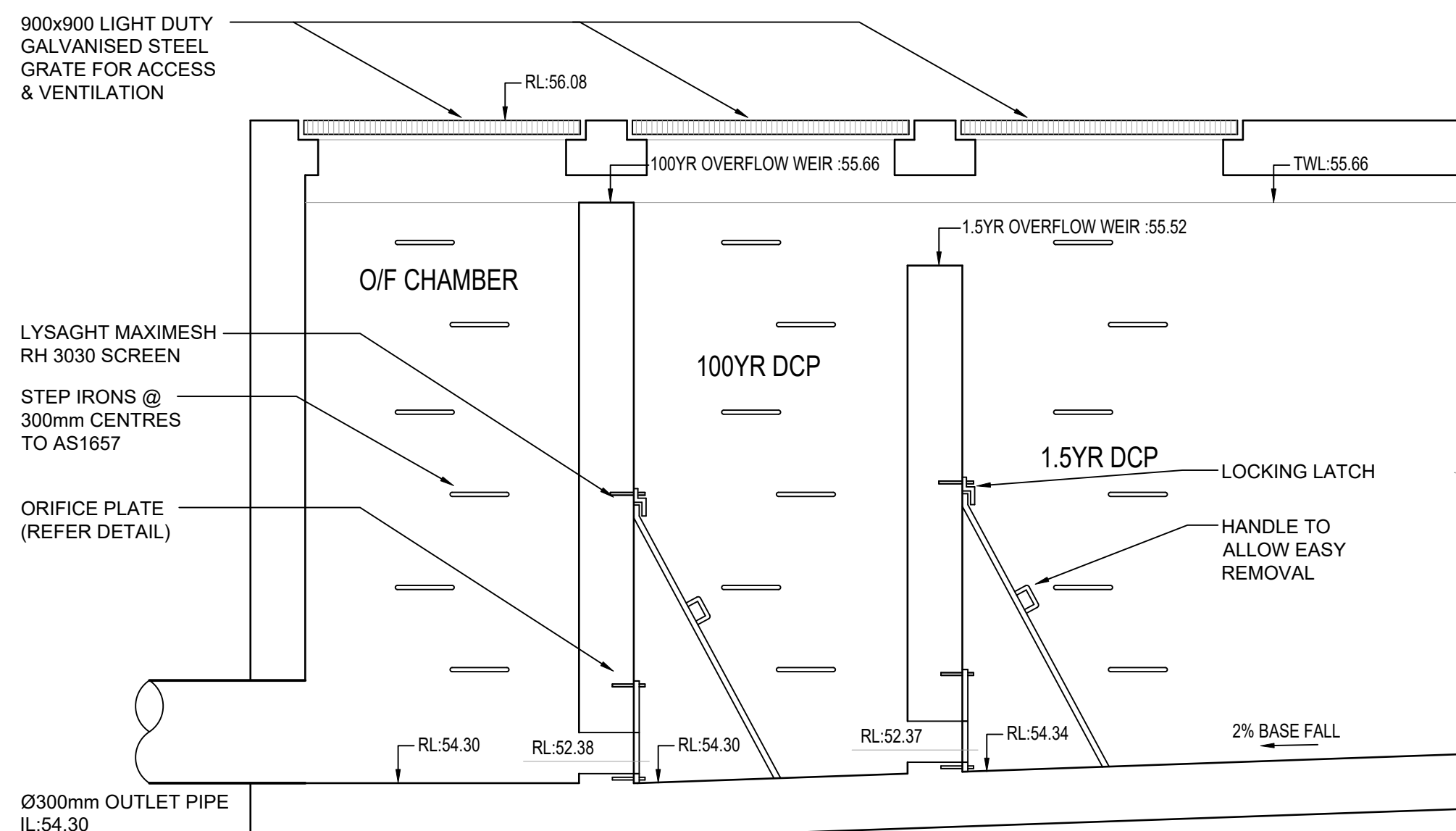
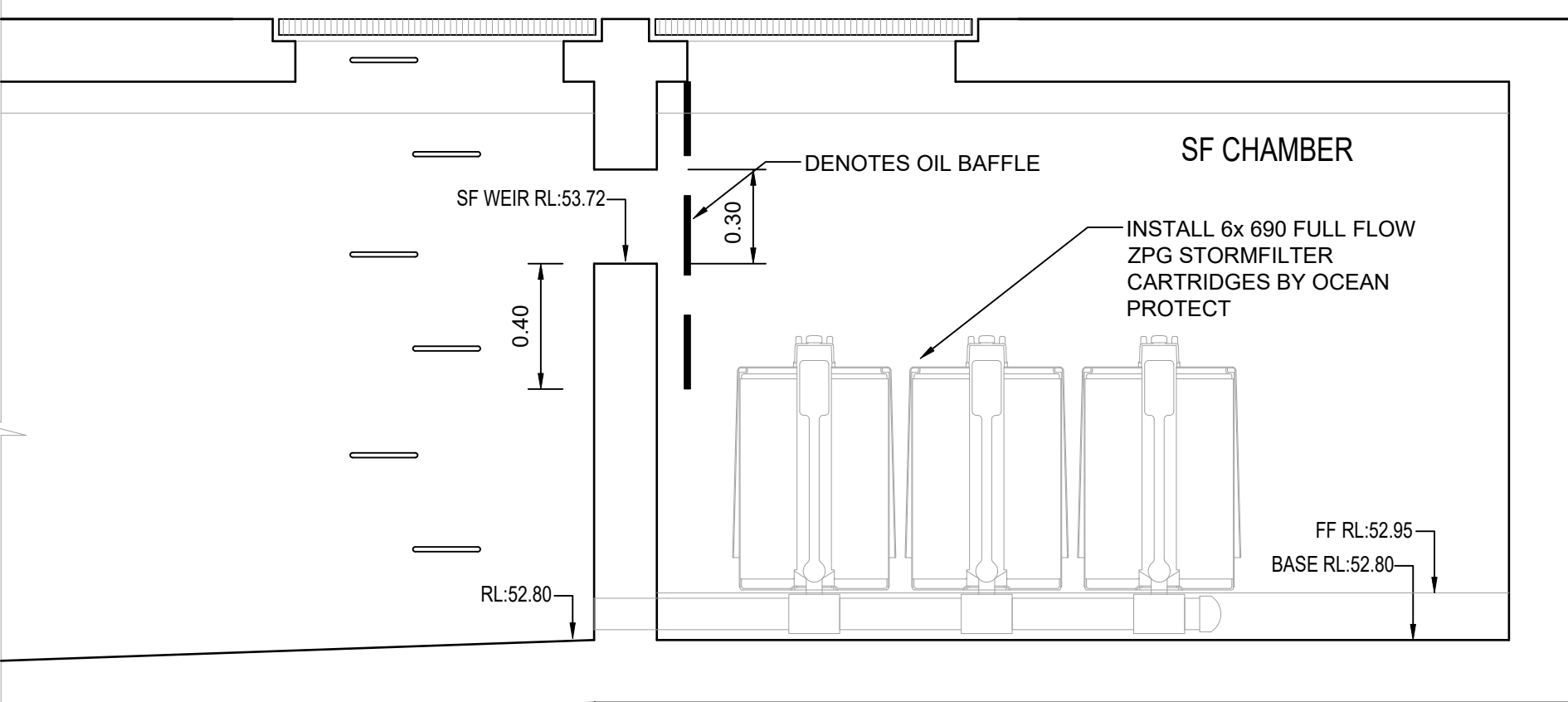


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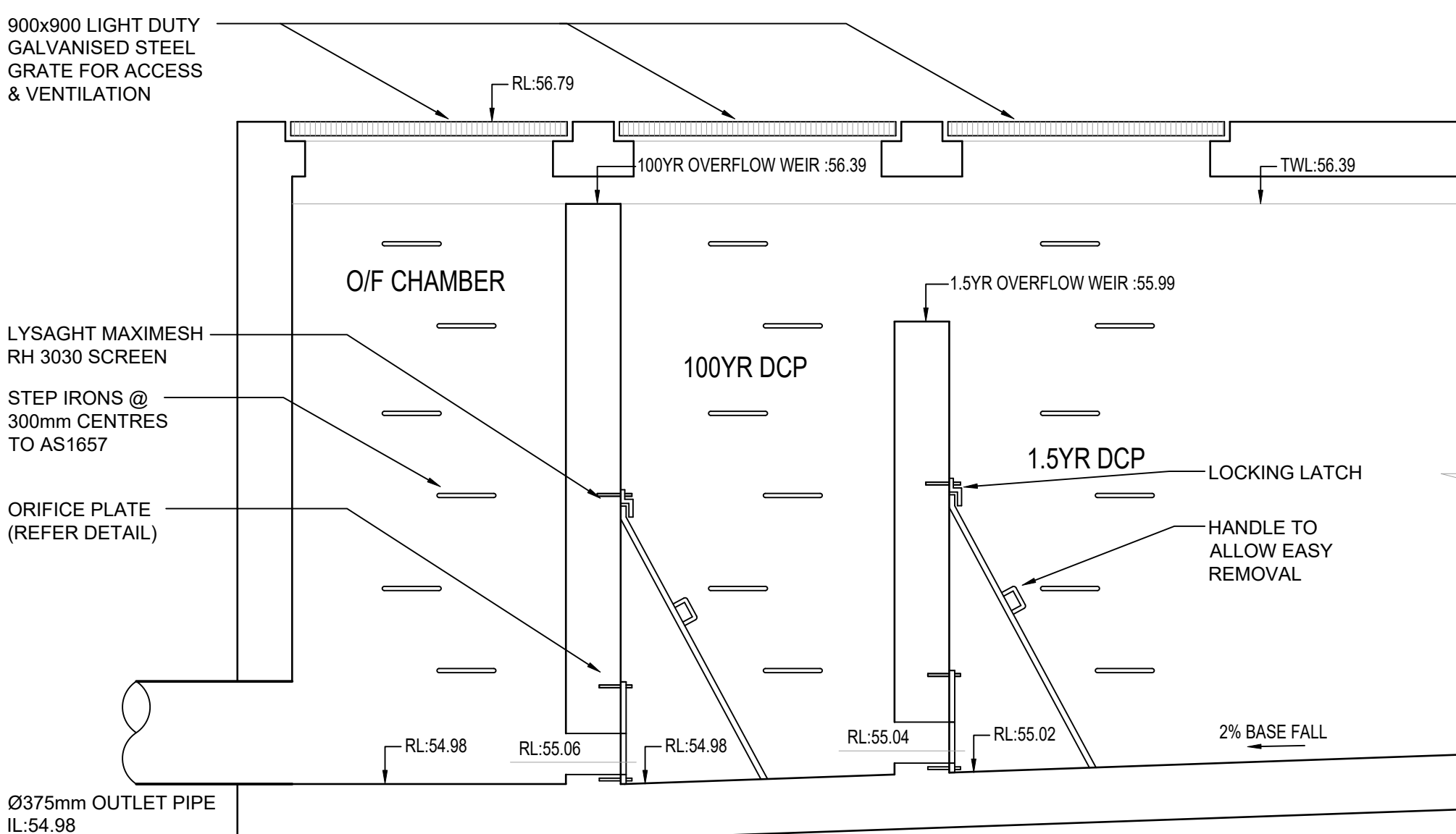
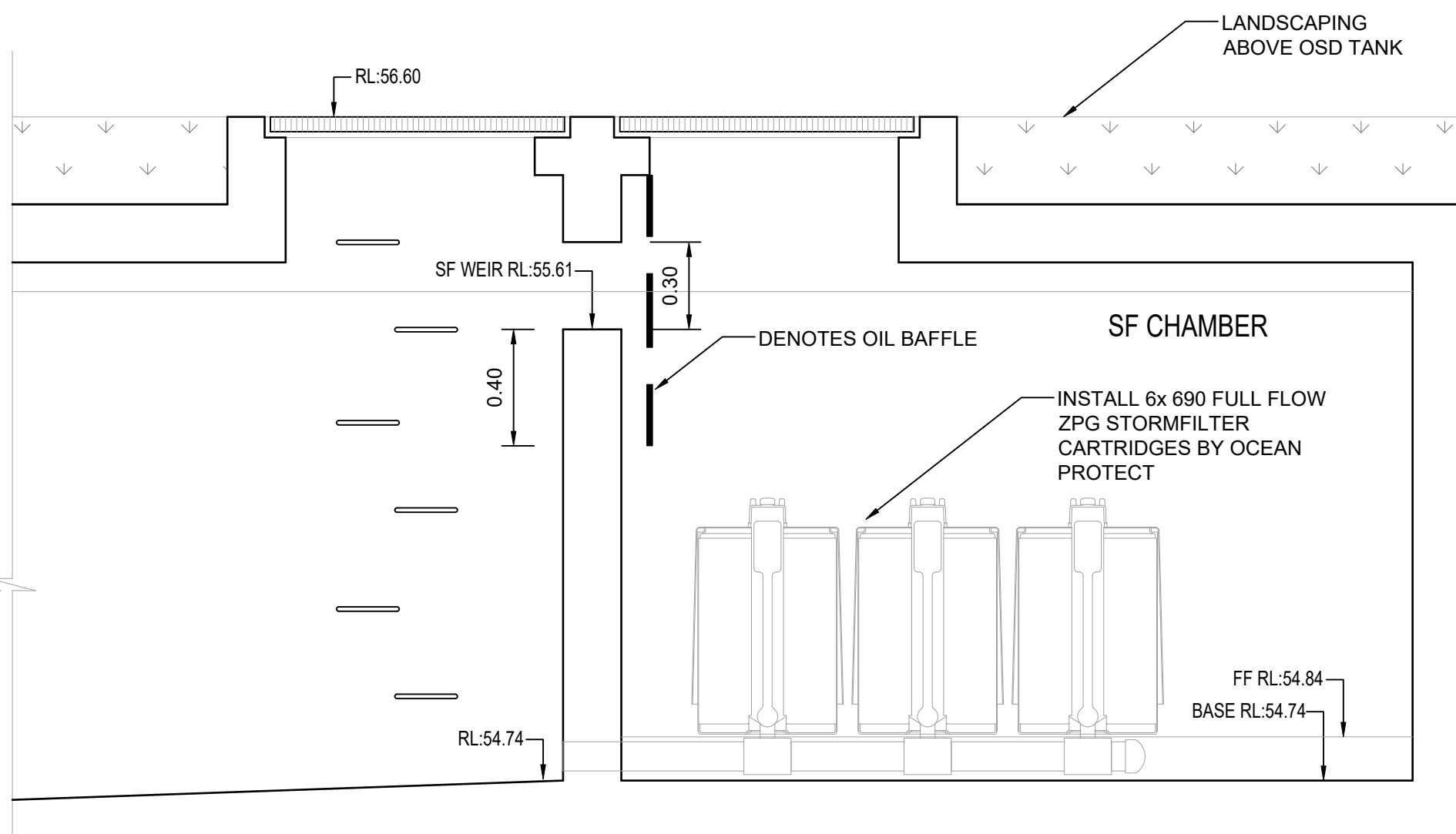
SCALE 1: 10



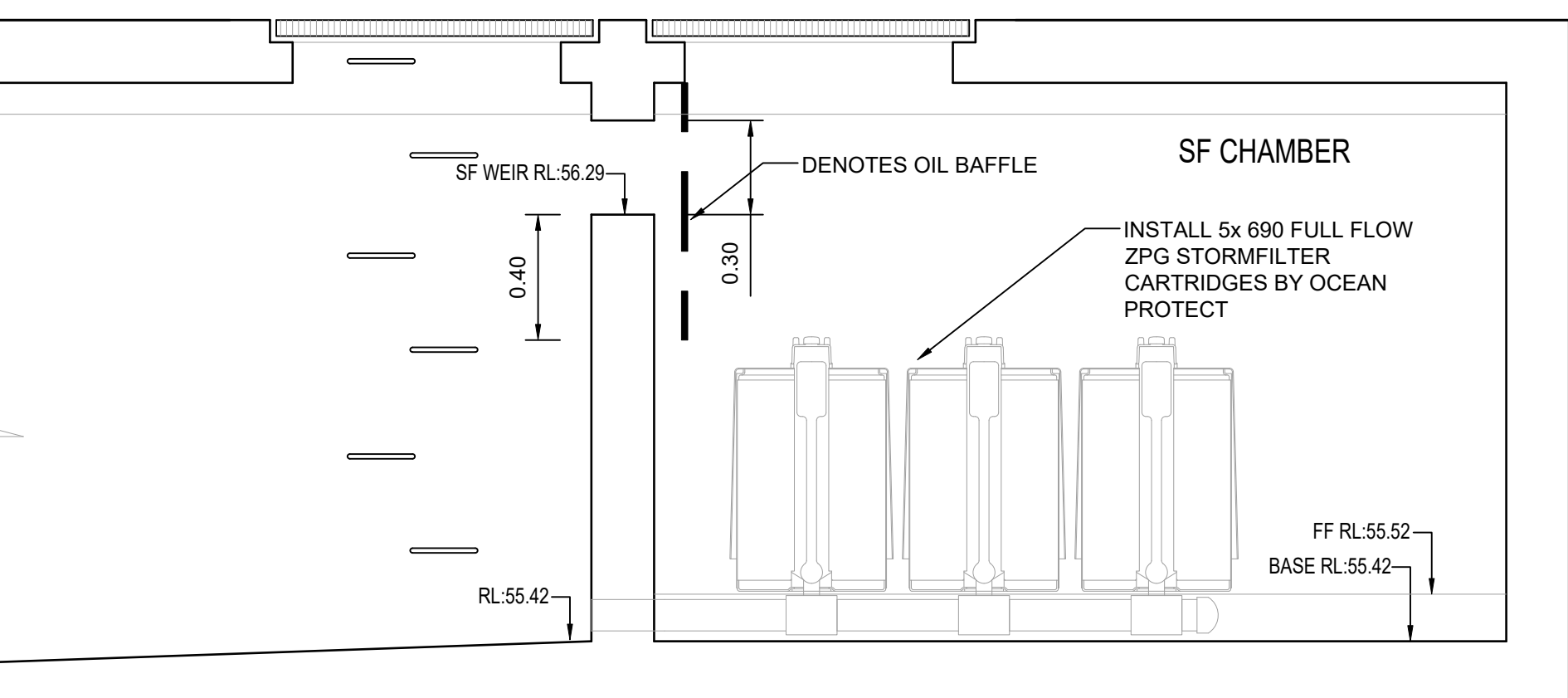
C/1 SECTION
SCALE 1:20



C/2 SECTION
SCALE 1:20



C/3 SECTION
SCALE 1:20



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

B	ISSUE FOR APPROVAL	SC	07.03.23	2
A	ISSUE FOR APPROVAL	SC	07.11.22	2
P3	PRELIMINARY ISSUE	SC	03.11.22	1
P2	PRELIMINARY ISSUE	SC	02.11.22	1
P1	PRELIMINARY ISSUE	SC	01.11.22	1

No.	Last revision title	By	Date	Status

1
