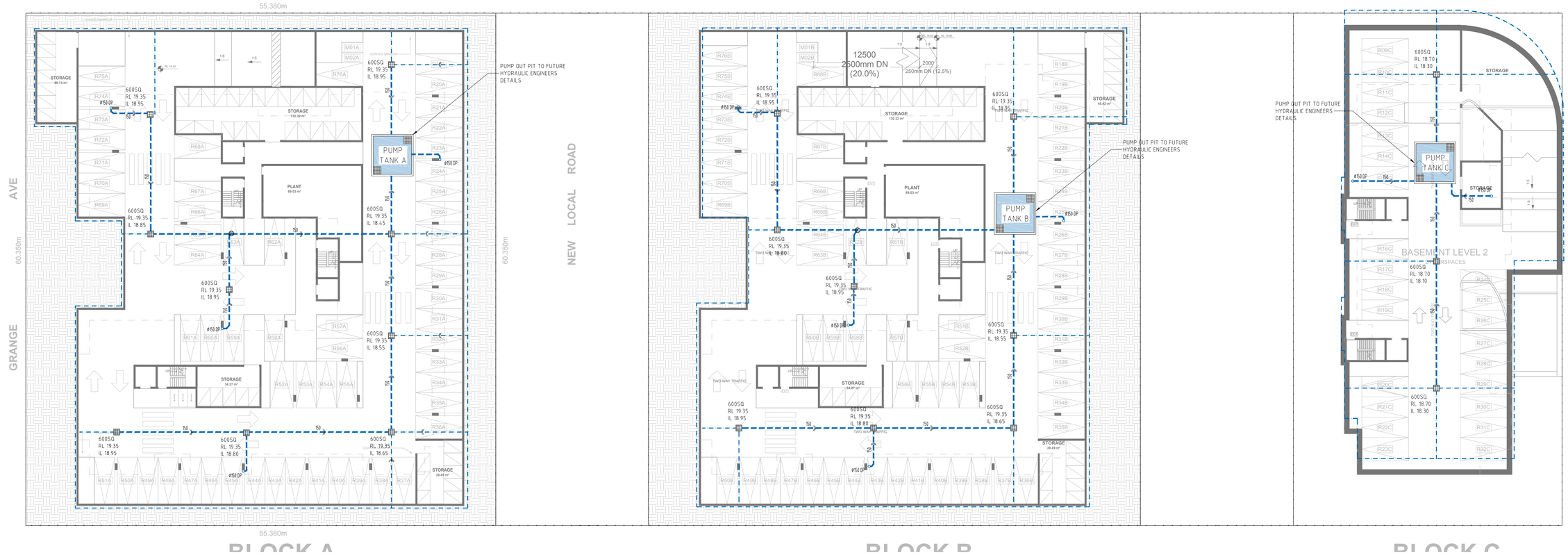

BASEMENT 2 DRAINAGE PLAN

SCALE 1:250

- BASEMENT SLAB TO HAVE 1% MIN. FALL TO INLET PIT AS PER AS2890 REQUIREMENT
- ALL BASEMENT PIT TO BE FITTED WITH HEAVY DUTY CLASS C GRATE & FRAME
- PIPE PENETRATION THROUGH BASEMENT WALL TO BE FULLY SEALED AND HAVE PUDDLE FLANGE (TYP.)

CONCEPT PLAN FOR COORDINATION

ISSUE	REVISION	DATE

REFERENCE COORDINATION DRAWING

DISCIPLINE	DRAWING TITLE AND NUMBER	DATE	REV.		DRAWING TITLE AND NUMBER	DATE	REV.
ARCH.				FIRE			
STRUCT.				LANDS			
MECH.				CIVIL			
ELEC.				SURVEY			
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MOB: 0419 041 401

QUALITY CONTROL	
DRAWN	DATE
DESIGNED	DATE
CHECKED	DATE

APPROVED:

CLIENT:

PROJECT:

TITLE: BASEMENT 2 DRAINAGE PLAN

DRAWING STATUS

SCALE (AT ORIGINAL SIZE) AS NOTED

PROJECT NO. | DRAWING NO. C2 | REVISION NO.

a1

BASEMENT 1 DRAINAGE PLAN

SCALE 1:250

- BASEMENT SLAB TO HAVE 1% MIN. FALL TO INLET PIT AS PER AS2890 REQUIREMENT
- ALL BASEMENT PIT TO BE FITTED WITH HEAVY DUTY CLASS C GRATE & FRAME
- PIPE PENETRATION THROUGH BASEMENT WALL TO BE FULLY SEALED AND HAVE PUDDLE FLANGE (TYP.)

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DESIGNED	DATE
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APPROVED:

CLIENT:

PROJECT:

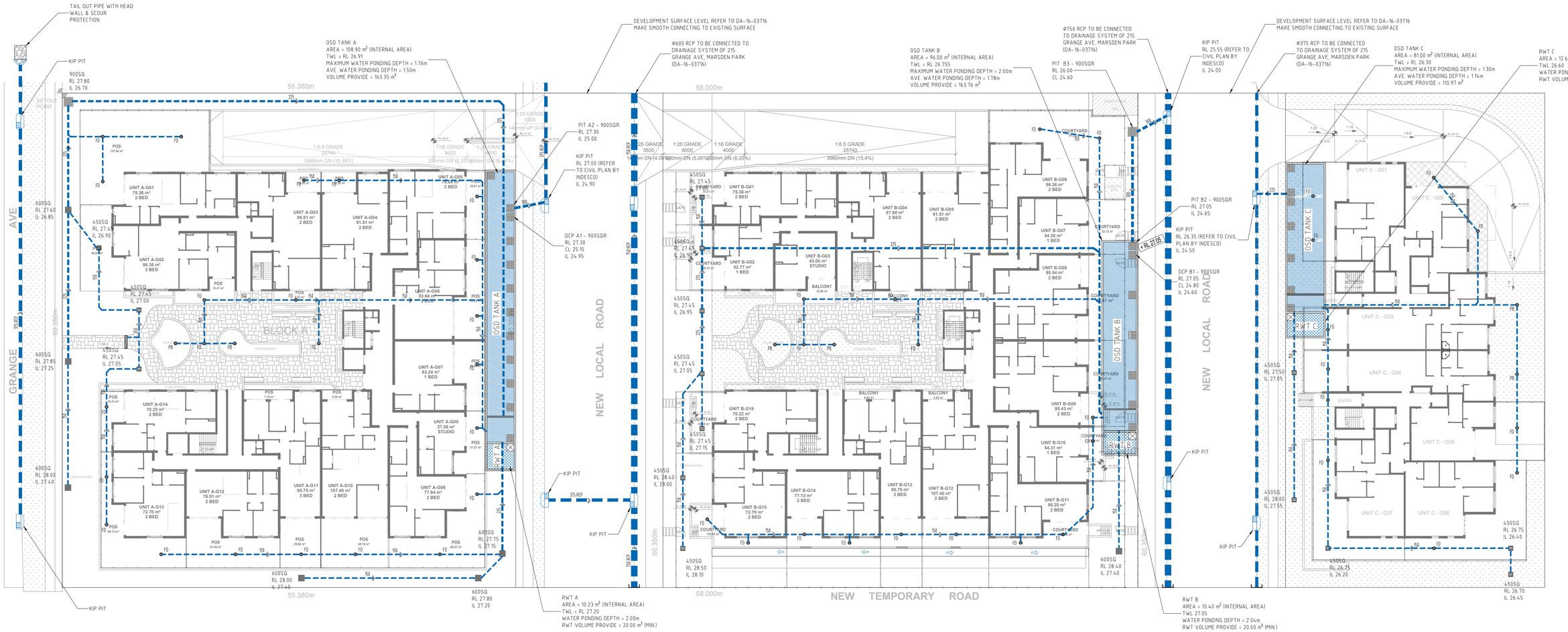
TITLE: BASEMENT 1 DRAINAGE PLAN

DRAWING STATUS

SCALE (AT ORIGINAL SIZE): AS NOTED

PROJECT NO.	DRAWING NO.	REVISION NO.
	C3	

a1



GROUND FLOOR DRAINAGE PLAN

SCALE 1:250

- INSTALL OCEANGUARD BASKETS FOR ALL SURFACE PIT
- ALL ROOF WATER TO BE COLLECTED INTO UNDERGROUND RWT

CONCEPT PLAN FOR COORDINATION

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STRUCT.				LANDS			
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QUALITY CONTROL	
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APPROVED:

CLIENT:

PROJECT:

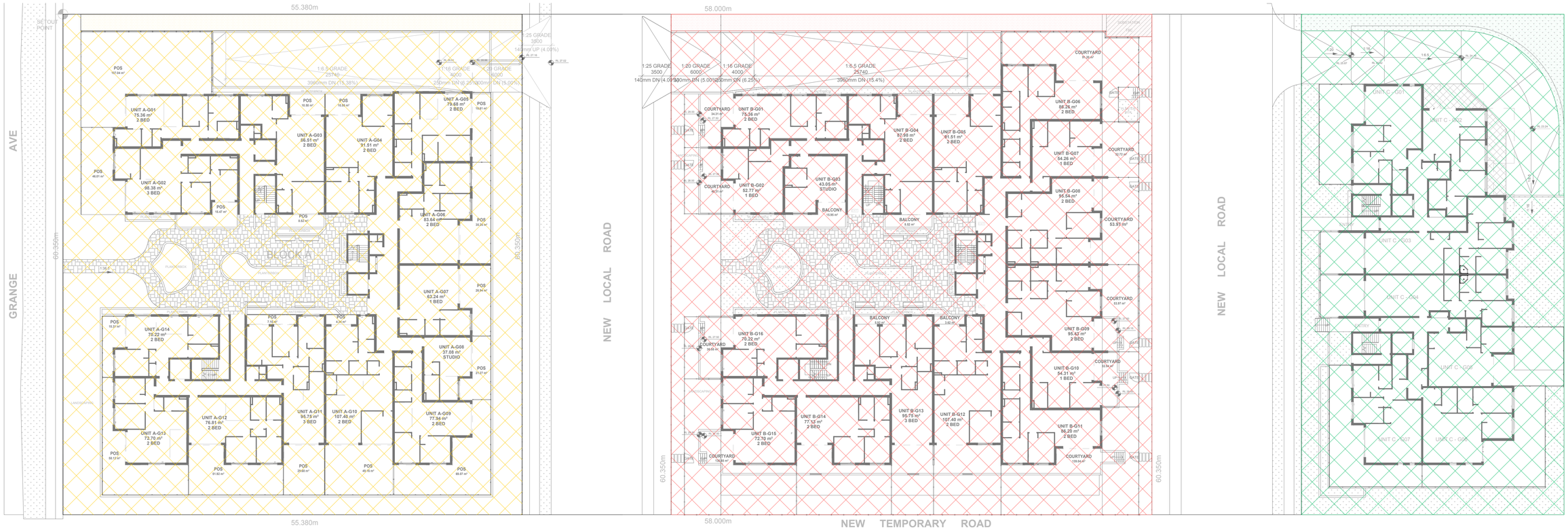
TITLE: GROUND FLOOR DRAINAGE PLAN

DRAWING STATUS

SCALE (AT ORIGINAL SIZE) AS NOTED

PROJECT NO.	DRAWING NO.	REVISION NO.
	C4	

a1



BLOCK A

TOTAL SITE AREA = 3342.162 m^2

AREA TO OSD SYSTEM = 3235.702 m^2

AREA BYPASS OSD SYSTEM = 106.46 m^2

BLOCK B

TOTAL SITE AREA = 3500.286 m^2

AREA TO OSD SYSTEM = 3380.436 m^2

AREA BYPASS OSD SYSTEM = 119.85 m^2

BLOCK C

TOTAL SITE AREA = 1911.38 m^2

AREA TO OSD SYSTEM = 1806.26 m^2

AREA BYPASS OSD SYSTEM = 105.12 m^2

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IMPERVIOUS AREA PLAN

SCALE 1:250

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DESIGNED	DATE
CHECKED	DATE

APPROVED:

CLIENT:

PROJECT:

TITLE: OSD CATCHMENT PLAN

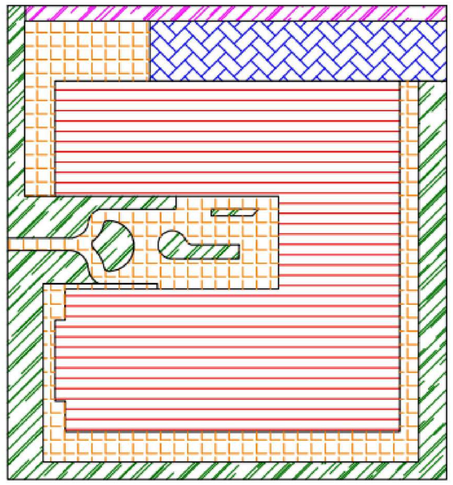
DRAWING STATUS

SCALE (AT ORIGINAL SIZE) AS NOTED

PROJECT NO.	DRAWING NO.	REVISION NO.
	C5	

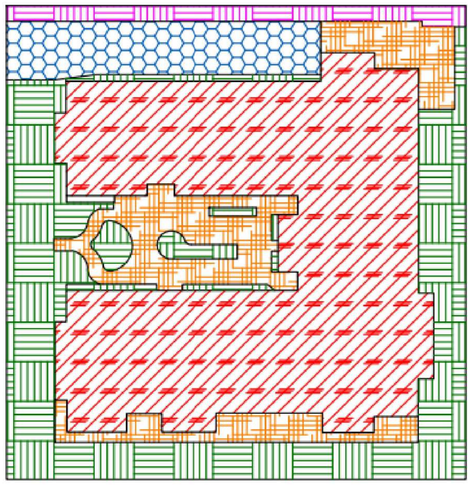
a1

MUSIC Model Site Area Breakup



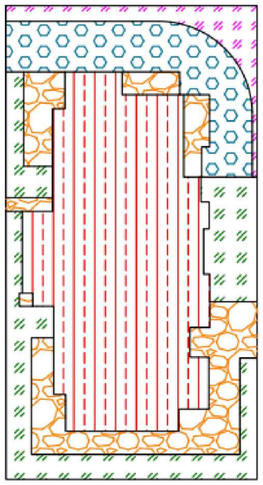
Catchment 1

- Roof : 1600m²
- Driveway: 285m²
- Paved: 736m²
- Landscape: 615m²
- Landscape Bypass: 106m²



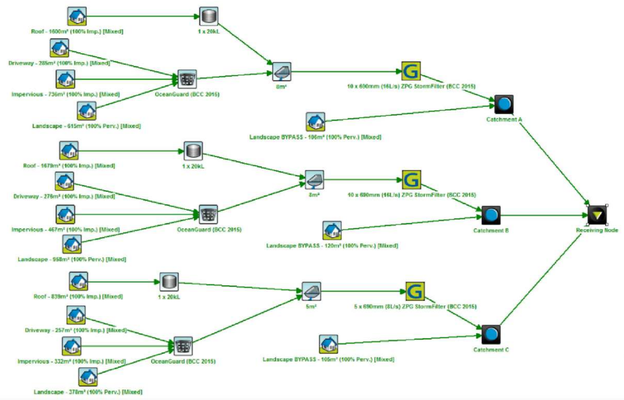
Catchment 2

- Roof : 1679m²
- Driveway: 276m²
- Paved: 467m²
- Landscape: 958m²
- Landscape Bypass: 120m²



Catchment 3

- Roof: 839m²
- Driveway: 257m²
- Paved: 332m²
- Landscape: 378m²
- Landscape Bypass: 105m²



Treatment Train Effectiveness - Receiving Node

	Sources	Residual Load	% Reduction
Flow (ML/yr)	5.22	4.57	12.6
Total Suspended Solids (kg/yr)	539	58.6	89.1
Total Phosphorus (kg/yr)	1.25	0.411	67.1
Total Nitrogen (kg/yr)	11.3	6.06	46.6
Gross Pollutants (kg/yr)	124	0	100

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TITLE:

MUSIC CATCHMENT PLAN

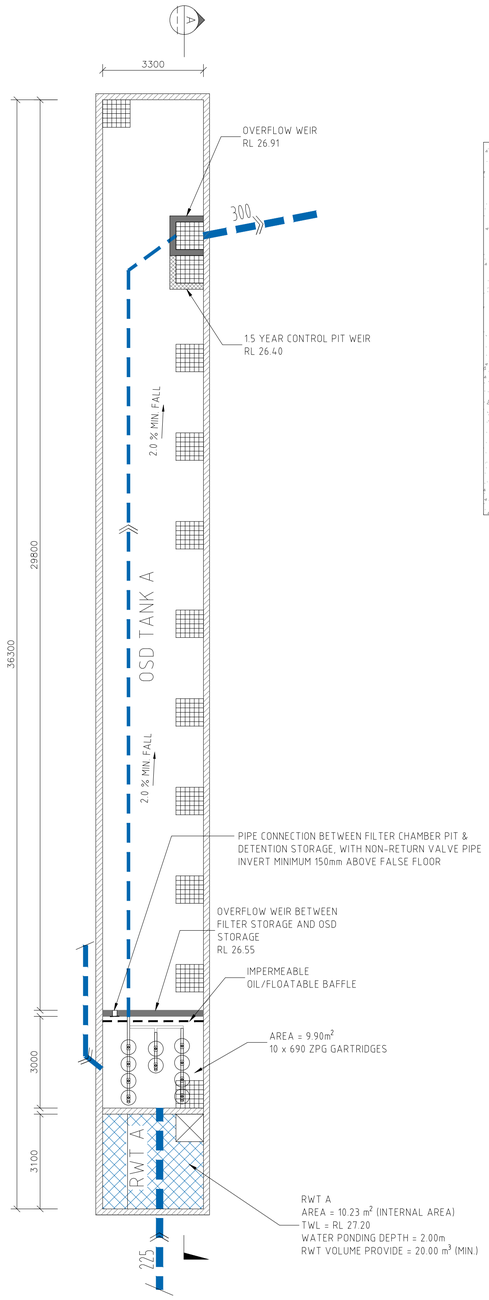
DRAWING STATUS

SCALE (AT ORIGINAL SIZE) AS NOTED

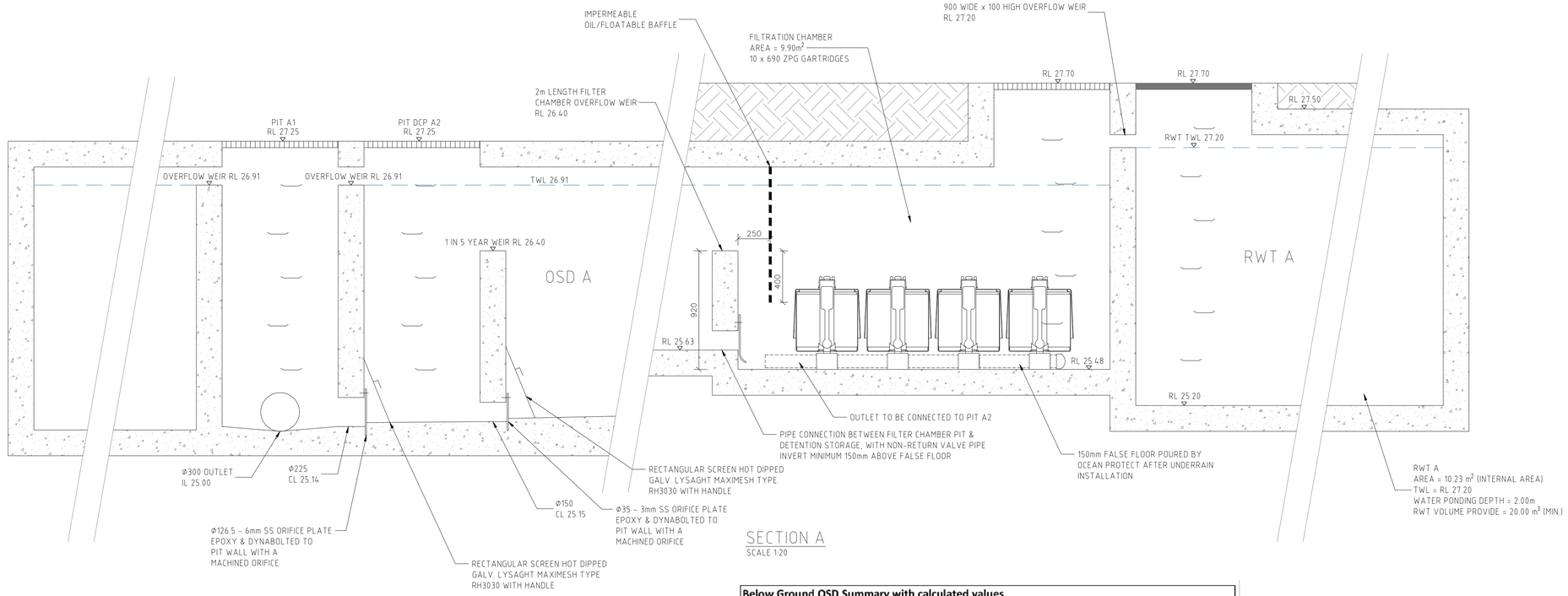
PROJECT NO. DRAWING NO. REVISION NO.

C6

a1



OSD & RWT TANK A PLAN
SCALE 1:100



SECTION A
SCALE 1:20

Below Ground OSD Summary with calculated values	
Site:	
Site Area	3342 m²
Site Area NOT Draining to OSD	106 m²
Reduced Levels (AHD):	
RL of Top of Tank	27.05
RL of Bottom of OSD Tank	25.42
RL of 1.5 Year ARI Overflow Weir	26.4
RL of Emergency Overflow Weir	26.91
RL of 1.5 Year ARI Orifice Centerline	25.15
RL of 100 Year ARI Orifice Centreline	25.14
RL of Invert of Discharge to Council Drainage Pit	24
RL of obvert of Pit outlet pipe	23.5
Minium RL of Garage Floor	27.14
Minium RL of House Floor	27.24
OSD Volume:	
Required Storage BELOW 1.5 Year ARI Overflow Weir	100.3 m³
Required Storage BELOW Emergency Overflow Weir	152.1 m³
Discharge Details:	
Using Filter Cartridges to Manage Water Quality	Yes
Discharge Location	Council Drainage Pit
Length of Emergency Overflow Weir	1.60 m
Maximum 1.5 Year ARI Site Discharge	12.73 L/s
1.5 Year ARI Orifice Discharge	2.87 L/s
Maximum 100 Year ARI Site Discharge	57.54 L/s
100 Year ARI Orifice Discharge	45.25 L/s
Filter Cartridges design flow	9.86 L/s
Filter Cartridges Discharge with Additional Head	12.29 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)	35.0 mm
100 Year ARI Orifice Size (mm)	126.5 mm
Notifications:	
Access grates to be provided such that the maximum reach from any point in the tank to the neaest grate is 3.0m.	

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ELEC.				SURVEY			
HYD.							

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MOB: 0419 041 401

QUALITY CONTROL
DRAWN DATE
DESIGNED DATE
CHECKED DATE

APPROVED:

CLIENT:

PROJECT:

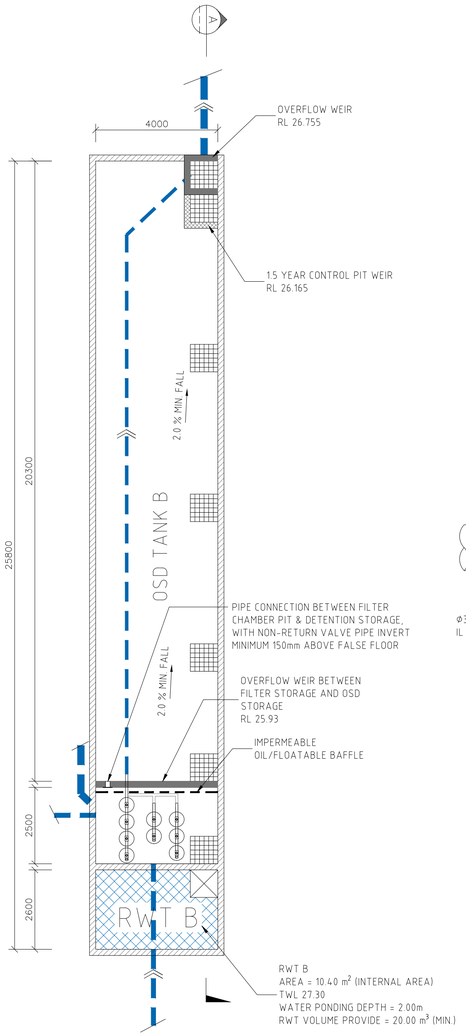
TITLE: OSD A SYSTEM

DRAWING STATUS

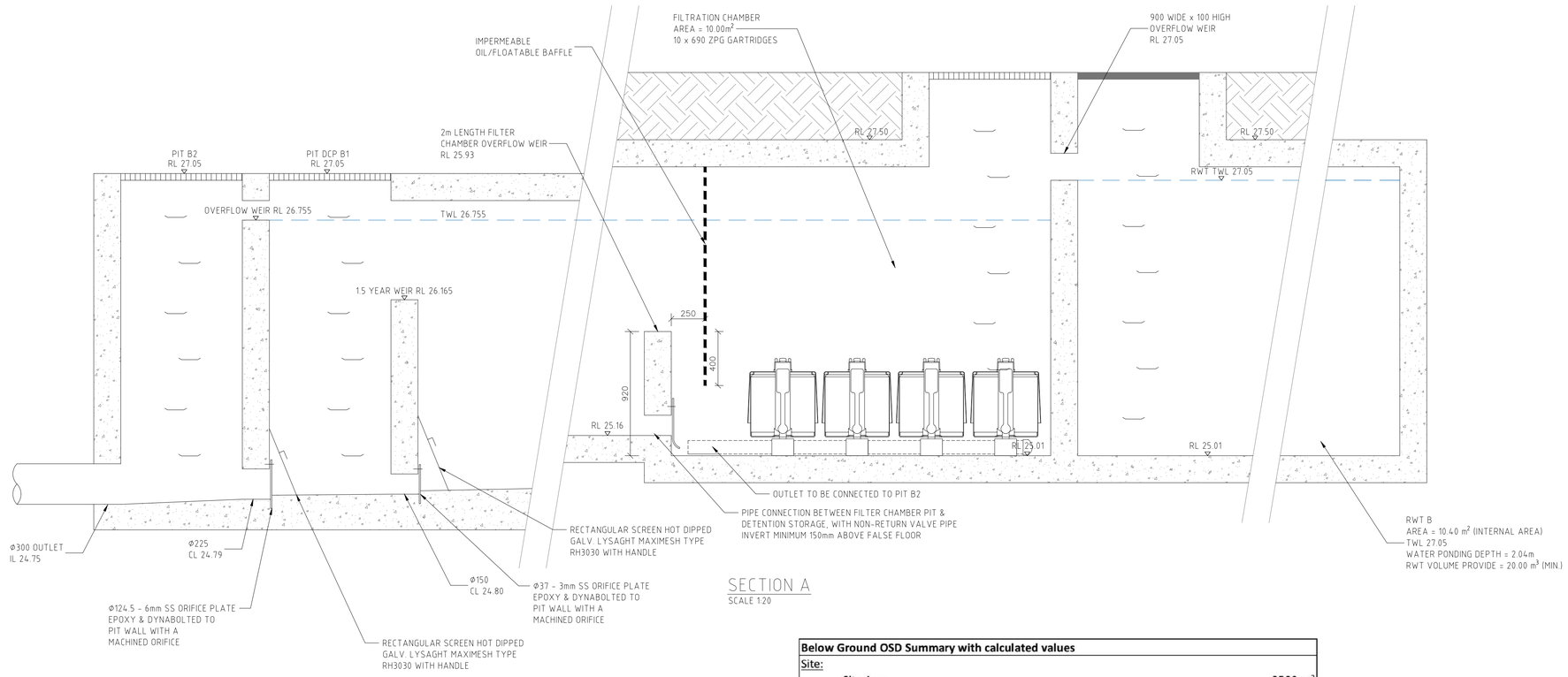
SCALE (AT ORIGINAL SIZE) AS NOTED

PROJECT NO. DRAWING NO. REVISION NO.
C7

a1



OSD & RWT TANK B PLAN
SCALE 1:100



SECTION A
SCALE 1:20

Below Ground OSD Summary with calculated values	
Site:	
Site Area	3500 m²
Site Area NOT Draining to OSD	120 m²
Reduced Levels (AHD):	
RL of Top of Tank	26.9
RL of Bottom of OSD Tank	25.02
RL of 1.5 Year ARI Overflow Weir	26.165
RL of Emergency Overflow Weir	26.755
RL of 1.5 Year ARI Orifice Centerline	24.8
RL of 100 Year ARI Orifice Centreline	24.79
RL of Invert of Discharge to Council Drainage Pit	24
RL of obvert of Pit outlet pipe	23.5
Minium RL of Garage Floor	26.99
Minium RL of House Floor	27.09
OSD Volume:	
Required Storage BELOW 1.5 Year ARI Overflow Weir	105.0 m³
Required Storage BELOW Emergency Overflow Weir	159.3 m³
Discharge Details:	
Using Filter Cartridges to Manage Water Quality	Yes
Discharge Location	Council Drainage Pit
Length of Emergency Overflow Weir	1.60 m
Maximum 1.5 Year ARI Site Discharge	13.28 L/s
1.5 Year ARI Orifice Discharge	3.42 L/s
Maximum 100 Year ARI Site Discharge	59.79 L/s
100 Year ARI Orifice Discharge	46.21 L/s
Filter Cartridges design flow	9.86 L/s
Filter Cartridges Discharge with Additional Head	13.58 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)	37.0 mm
100 Year ARI Orifice Size (mm)	124.5 mm
Notifications:	
Access grates to be provided such that the maximum reach from any point in the tank to the neaest grate is 4.0m.	

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DESIGNED DATE
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APPROVED:

CLIENT:

PROJECT:

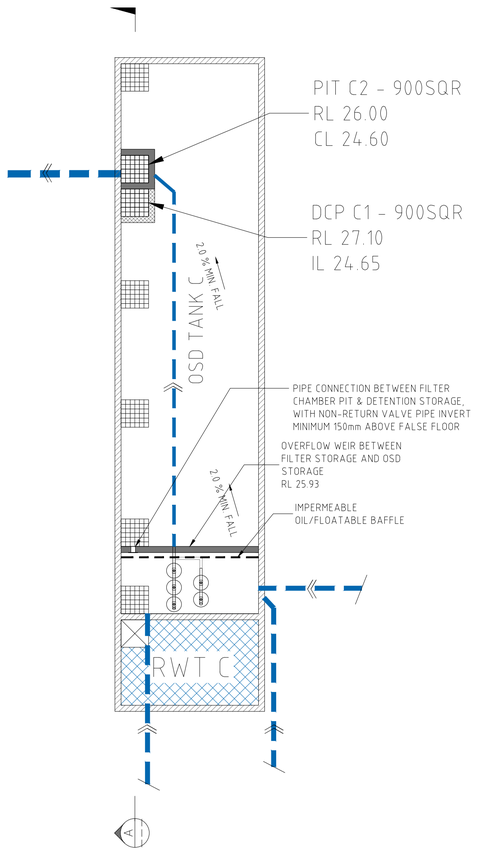
TITLE: OSD B SYSTEM

DRAWING STATUS

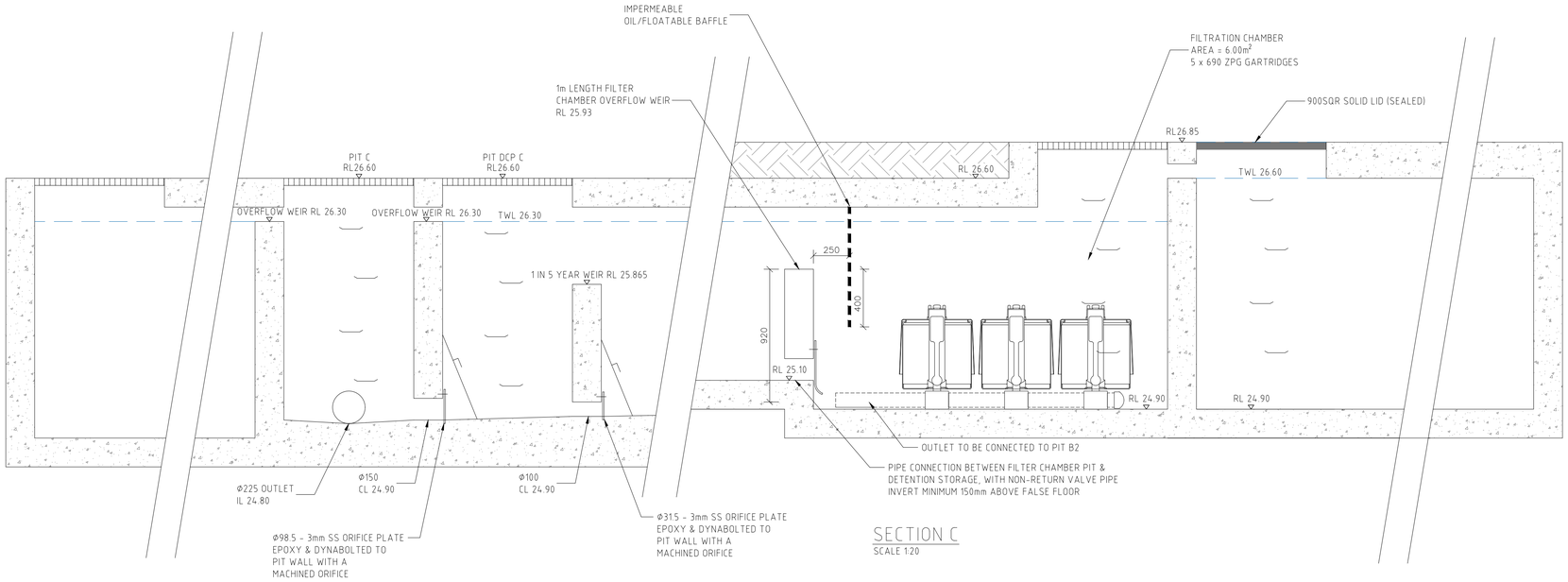
SCALE (AT ORIGINAL SIZE) AS NOTED

PROJECT NO. DRAWING NO. REVISION NO.
C8

a1



OSD & RWT TANK C PLAN
SCALE 1:100



SECTION C
SCALE 1:20

Below Ground OSD Summary with calculated values	
Site:	
Site Area	1911 m²
Site Area NOT Draining to OSD	106 m²
Reduced Levels (AHD):	
RL of Top of Tank	26.4
RL of Bottom of OSD Tank	25.03
RL of 1.5 Year ARI Overflow Weir	25.865
RL of Emergency Overflow Weir	26.3
RL of 1.5 Year ARI Orifice Centerline	24.9
RL of 100 Year ARI Orifice Centreline	24.9
RL of Invert of Discharge to Council Drainage Pit	24
RL of obvert of Pit outlet pipe	23.5
Minium RL of Garage Floor	26.49
Minium RL of House Floor	26.59
OSD Volume:	
Required Storage BELOW 1.5 Year ARI Overflow Weir	57.3 m³
Required Storage BELOW Emergency Overflow Weir	87.0 m³
Discharge Details:	
Using Filter Cartridges to Manage Water Quality	Yes
Discharge Location	Council Drainage Pit
Length of Emergency Overflow Weir	1.60 m
Maximum 1.5 Year ARI Site Discharge	7.01 L/s
1.5 Year ARI Orifice Discharge	2.08 L/s
Maximum 100 Year ARI Site Discharge	30.41 L/s
100 Year ARI Orifice Discharge	24.33 L/s
Filter Cartridges design flow	4.93 L/s
Filter Cartridges Discharge with Additional Head	6.08 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)	31.5 mm
100 Year ARI Orifice Size (mm)	98.5 mm
Notifications:	
Access grates to be provided such that the maximum reach from any point in the tank to the neaest grate is 3.0m.	

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CONCEPT PLAN FOR COORDINATION

ISSUE	REVISION	DATE

REFERENCE COORDINATION DRAWING

DISCIPLINE	DRAWING TITLE AND NUMBER	DATE	REV.		DRAWING TITLE AND NUMBER	DATE	REV.
ARCH.				FIRE			
STRUCT.				LANDS			
MECH.				CIVIL			
ELEC.				SURVEY			
HYD.							

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PH: (02) 9607 2864 OR (02) 8798 5617 FAX: (02) 9731 2081
MOB: 0419 041 401

QUALITY CONTROL
DRAWN DATE
DESIGNED DATE
CHECKED DATE

APPROVED:

CLIENT:

PROJECT:

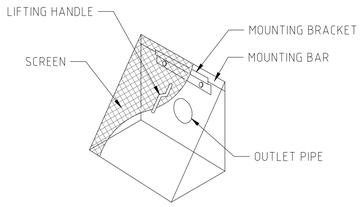
TITLE: OSD C SYSTEM

DRAWING STATUS

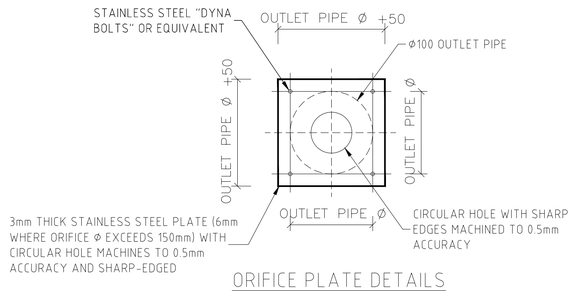
SCALE (AT ORIGINAL SIZE) AS NOTED

PROJECT NO. DRAWING NO. REVISION NO.
C9

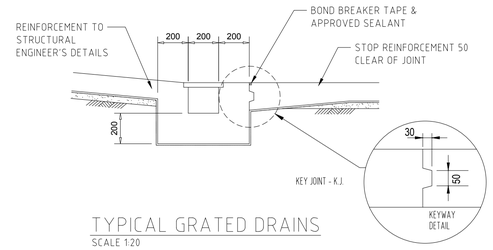
a1



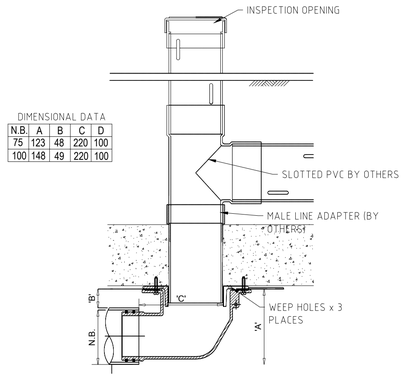
DEBRIS SCREEN DETAILS
SCALE 1:20



ORIFICE PLATE DETAILS
SCALE 1:10



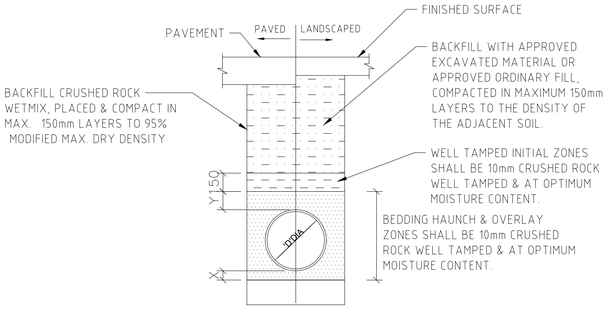
TYPICAL GRATED DRAINS
SCALE 1:20



DIMENSIONAL DATA

N.B.	A	B	C	D
75	123	48	220	100
100	148	49	220	100

TYPICAL PLANTER BOX DRAIN
SCALE 1:5
SPECIFICATION CODE:
C100090 A 100mm SIDE OUTLET

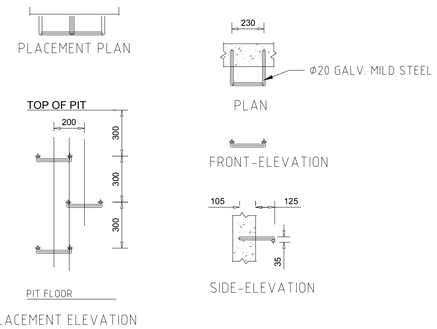


NOTE:
1 REFER TO PIPE LAYING SPECIFICATIONS FOR DETAILS.

PIPE DIA 'D'	W	X MIN.	Y
100-150	300	75	75
225-300	600	75	75

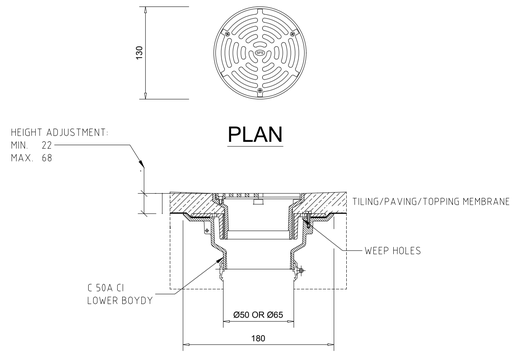
UPVC PIPE

TYPICAL PIPE LAYING DETAIL
NTS



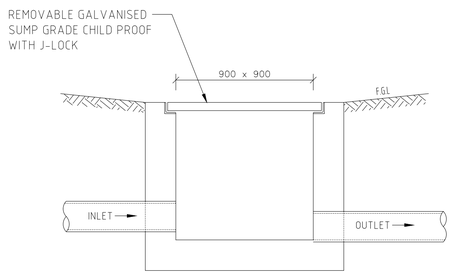
PLACEMENT ELEVATION

TYPICAL STEP IRON (WHERE DEPTH EXCESS 1.20m)
SCALE 1:20

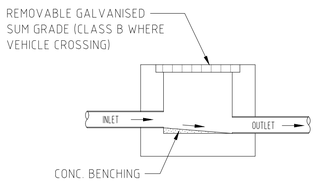


SECTION - SPS Φ130 OR EQUIVALENT FLOOR DRAIN (FD) INLET IN SUSPENDED SLAB
SCALE 1:5
SPECIFICATION CODE:
R130S/C (SATIN 316 STAINLESS STEEL GRATE, CI LOWER BODY)
130S4/C (POLISHED 304 STAINLESS STEEL GRATE, CI LOWER BODY)

CONFINED SPACE SIGN TO BE PLACED INSIDE OSD TANK & RAINWATER TANK
NTS



TYPICAL 900SQR SURFACE PIT
SCALE 1:20



TYPICAL SURFACE PIT
NTS

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PROJECT:

TITLE: STORMWATER DETAILS

DRAWING STATUS

SCALE (AT ORIGINAL SIZE) AS NOTED

PROJECT NO. DRAWING NO. REVISION NO.
C10

a1