

20 HERADALE PARADE, BATEMANS BAY PROPOSED RESIDENTIAL DEVELOPMENT

STORMWATER CONCEPT PLANS



LOCALITY PLAN

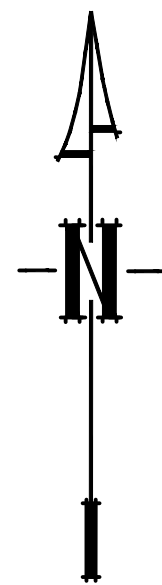
N.T.S

DRAWING INDEX

Drawing No.	DESCRIPTION
000	COVER SHEET PLAN
101	STORMWATER CONCEPT PLAN BASEMENT B1 SHEET 1 OF 3
102	STORMWATER CONCEPT PLAN BASEMENT B1 SHEET 2 OF 3
103	STORMWATER CONCEPT PLAN BASEMENT B1 SHEET 3 OF 3
104	STORMWATER CONCEPT PLAN GROUND FLOOR
105	CATCHMENT PLAN AND MUSIC RESULTS
106	BIO-RETENTION DETAILS
107	ON-SITE DETENTION 1 & 3 DETAILS AND CALCULATIONS
108	ON-SITE DETENTION 2 DETAILS AND CALCULATIONS
109	SEDIMENT AND EROSION CONTROL PLAN & DETAILS
110	MISCELLANEOUS DETAILS SHEET
111	CATCHMENT PLAN EXISTING/PROPOSED SYSTEM

NOT FOR CONSTRUCTION

<table><tr><td>D</td><td>ISSUE FOR COUNCIL COMMENTS</td><td>30/08/2024</td><td>YKK</td><td>SBF</td></tr><tr><td>C</td><td>ISSUE FOR COUNCIL COMMENTS</td><td>24/11/2023</td><td>YKK</td><td>JSF</td></tr><tr><td>B</td><td>ISSUE FOR DEVELOPMENT APPLICATION</td><td>24/01/2023</td><td>YKK</td><td>JSF</td></tr><tr><td>A</td><td>ISSUE FOR DEVELOPMENT APPLICATION</td><td>16/01/2023</td><td>YKK</td><td>JSF</td></tr><tr><td>Issue</td><td>Description</td><td>Date</td><td>Design</td><td>Checked</td></tr></table>					D	ISSUE FOR COUNCIL COMMENTS	30/08/2024	YKK	SBF	C	ISSUE FOR COUNCIL COMMENTS	24/11/2023	YKK	JSF	B	ISSUE FOR DEVELOPMENT APPLICATION	24/01/2023	YKK	JSF	A	ISSUE FOR DEVELOPMENT APPLICATION	16/01/2023	YKK	JSF	Issue	Description	Date	Design	Checked	Certification By Dr. Michel Chasaya B.E., M.E. (Res), Ph.D., F.I.E. Aust., CPEng., Civil & Structural Engineer 		Architect PLACE STUDIO 74 KING ST, NEWTOWN NSW 2042 T 61 431 088 534 W: www.PlaceStudio.com.au Studio@PlaceStudio.com.au		Council EUROBODALLA SHIRE COUNCIL		Scale		TELFORDCIVIL DESIGN & CONSTRUCTION EXCELLENCE Level 14, 32 Smith Street, Parramatta NSW 2150 PO BOX 3579 Parramatta 2124 Email : info@telfordcivil.com.au Phone : 02 7809 4931 Company : Telford Consulting Pty Ltd		Project 20 HERADALE PARADE, BATEMANS BAY PROPOSED RESIDENTIAL DEVELOPMENT STORMWATER CONCEPT PLANS DEVELOPMENT APPLICATION		Drawing Title COVER SHEET PLAN <table><tr><td>Scale</td><td>A1</td><td>Project No.</td><td>Dwg. No.</td><td>Issue</td></tr><tr><td>N.T.S.</td><td></td><td>22500</td><td>000</td><td>D</td></tr></table>				Scale	A1	Project No.	Dwg. No.	Issue	N.T.S.		22500	000	D
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PIPES NOTE:
Ø65 PVC @ MIN 1.0%
Ø90 PVC @ MIN 1.0%
Ø100 PVC @ MIN 1.0%
Ø150 PVC @ MIN 1.0%
Ø225 PVC @ MIN 0.5%
Ø300 PVC @ MIN 0.4%
UNLESS NOTED OTHERWISE

NOTE
FOR FLOOR WASTES (FW) BEHIND STORAGE CAGES, ALLOW 600x600 OPENING WITHIN THE REAR MESH FOR MAINTENANCE PURPOSES.

NOTE
ALLOW FOR 600x600 ACCESS TO FLOOR WASTES (FW) BETWEEN WET WALLS AND ROOMS WALLS.
FOR FIRE COMPARTMENTS, ACCESS HATCH TO COMPLY WITH FIRE CONSULTANT'S REQUIREMENTS

NOTE:
ALL STORMWATER DRAINAGE PIPES ARE Ø100 uPVC U.N.O.

NOTE:
REFER ARCHITECTURAL DRAWINGS FOR FINAL SET-OUT LEVELS.

LEGEND

- PROPOSED STORMWATER
- PROPOSED DRAINAGE PIPE CAST IN SLAB
- Ø100mm VERTICAL DROP
- SURFACE FLOW DIRECTION
- Ø100mm SUBSOIL DRAINAGE TO BE WRAPPED IN GEOTEXTILE BIDIMA34 @MIN 1.0% SLOPE
- CLEANING EYE (OR INSPECTION EYE)
- INSPECTION OPENING
- FINISHED SURFACE LEVEL
- GRATED DRAIN
- Ø150mm FLOOR GRATE

STANDARD PUMP OUT DESIGN NOTES

- THE PUMP OUT SYSTEM SHALL BE DESIGN TO BE OPERATED IN THE FOLLOWING MANNER:
- 1 - THE PUMP SHALL BE PROGRAMMED TO WORK ALTERNATELY TO ALLOW BOTH PUMPS TO HAVE AN EQUAL OPERATION LOAD AND PUMP LIFE.
 - 2 - A FLOAT SHALL BE PROVIDED TO ENSURE OF THE MINIMUM REQUIRED WATER LEVEL IS MAINTAINED WITHIN THE SUMP AREA OF THE BELOW GROUND TANK. IN THIS REGARD THIS FLOAT WILL FUNCTION AS AN OFF SWITCH FOR THE PUMPS AT THE MINIMUM WATER LEVEL. THE SAME FLOAT SHALL BE SET TO TURN ONE OF THE PUMPS ON UPON THE WATER LEVEL IN THE TANK RISING TO APPROXIMATELY 300mm ABOVE THE MINIMUM WATER LEVEL. THE PUMP SHALL OPERATE UNTIL THE TANK IS DRAINED TO THE MINIMUM WATER LEVEL.
 - 3 - A SECOND FLOAT SHALL BE PROVIDE AT A HIGH LEVEL, WHICH IS APPROXIMATELY THE ROOF LEVEL OF THE BELOW GROUND TANK. THIS FLOAT SHALL START THE OTHER PUMP THAT IS NOT OPERATING AND ACTIVATE THE ALARM.
 - 4 - AN ALARM SYSTEM SHALL BE PROVIDE WITH A FLASHING STROBE LIGHT AND A PUMP FAILURE WARNING SIGN WHICH ARE TO BE LOCATED AT THE DRIVEWAY ENTRANCE TO THE BASEMENT LEVEL. THE ALARM SYSTEM SHALL BE PROVIDED WITH A BATTERY BACK-UP IN CASE OF POWER FAILURE.
 - 5 - A CONFINED SPACE DANGER SIGN SHALL BE PROVIDED AT ALL ACCESS POINT TO THE PUMP-OUT STORAGE TANK IN ACCORDANCE WITH THE UPPER PARRAMATA RIVER CATCHMENT TRUST OSD HANDBOOK.



BASEMENT PUMP OUT FAILURE WARNING SIGN

SIGN SHALL BE PLACED IN A CLEAR AND VISIBLE LOCATION WHERE VEHICLES ENTER THE BASEMENT

COLOURS:
"WARNING" = RED
BORDER AND OTHER LETTERING = BLACK



CONFINED SPACE DANGER SIGN

A) A CONFINED SPACE DANGER SIGN SHALL BE POSITIONED IN A LOCATION AT ALL ACCESS POINTS, SUCH THAT IT IS CLEARLY VISIBLE TO PERSONS PROPOSING TO ENTER THE BELOW GROUND TANK'S CONFINED SPACE.

B) MINIMUM DIMENSIONS OF THE SIGN - 300mm x 450mm (LARGE ENTRIES, SUCH AS DOORS) -250mm x 180mm (SMALL ENTRIES SUCH AS GRATES & MANHOLES)

C) THE SIGN SHALL BE MANUFACTURED FROM COLOUR BONDED ALUMINUM OR POLYPROPYLENE

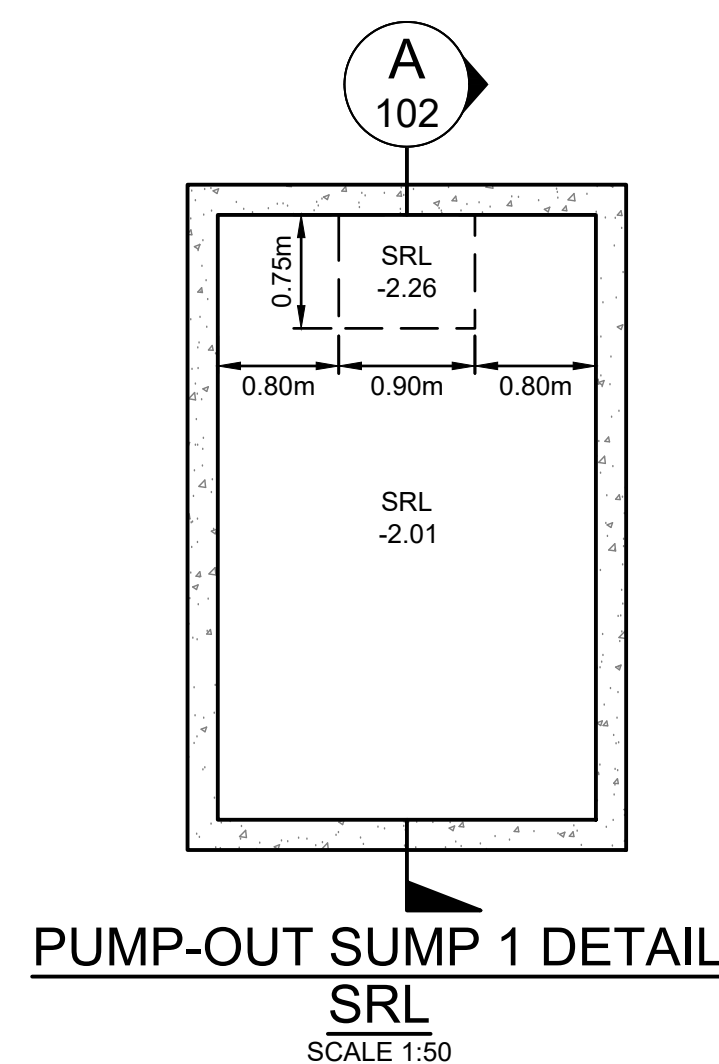
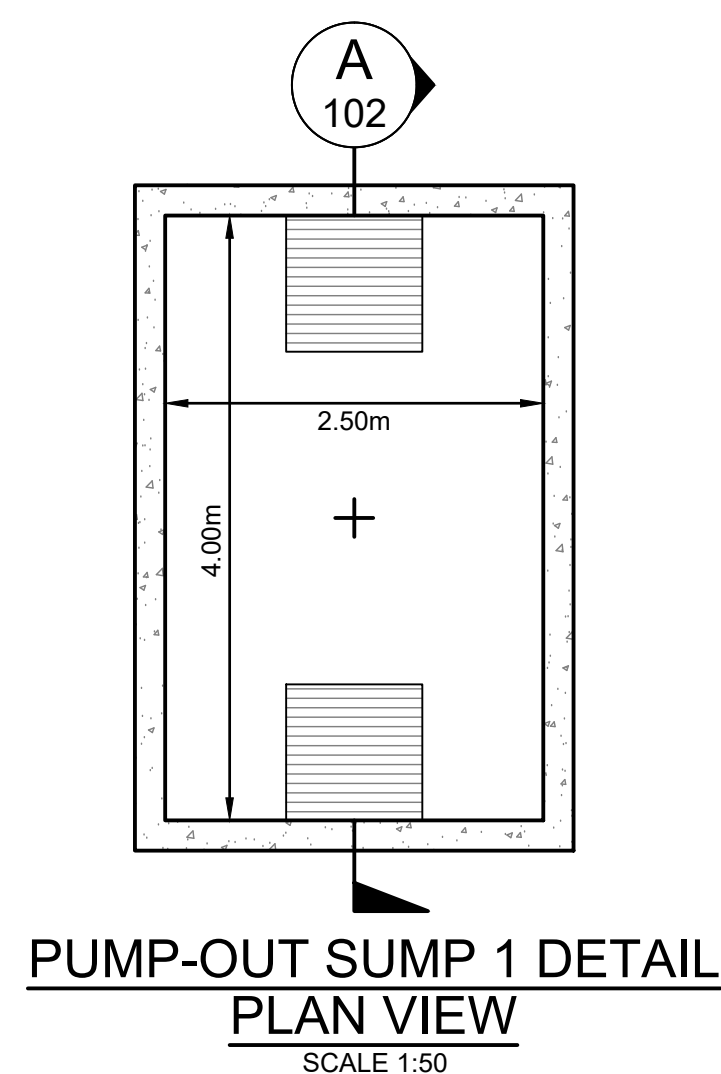
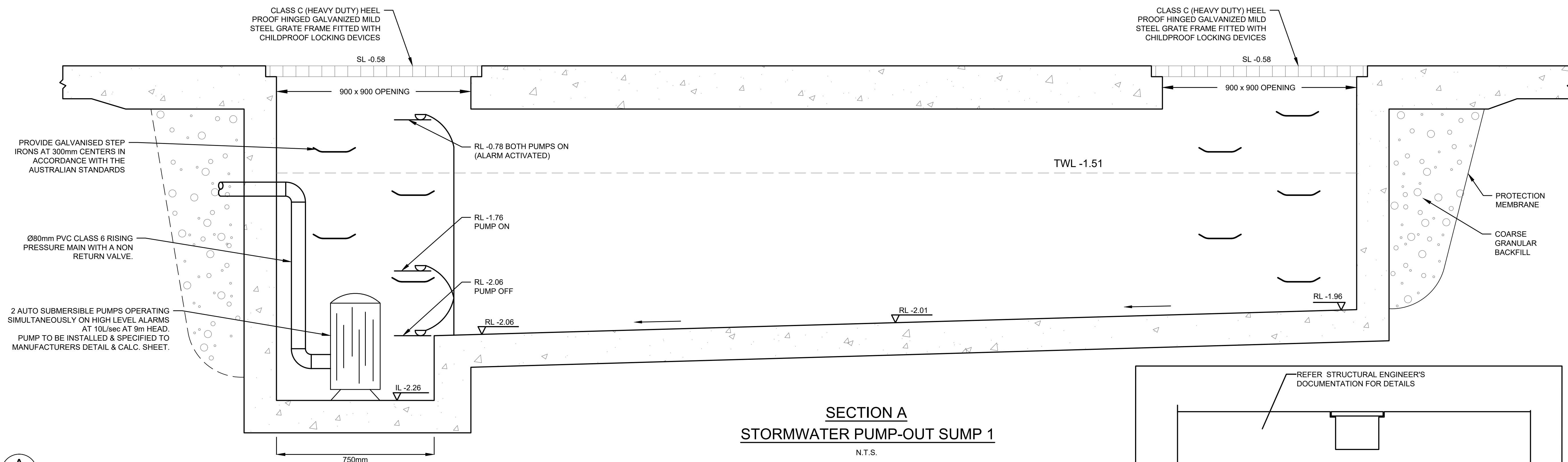
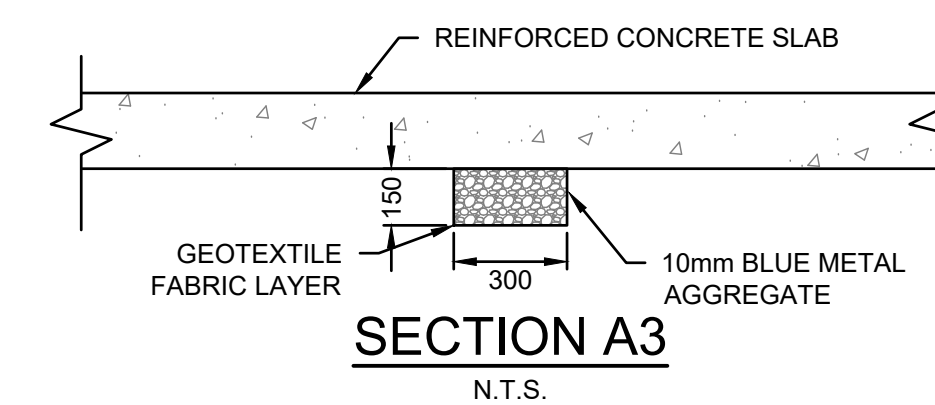
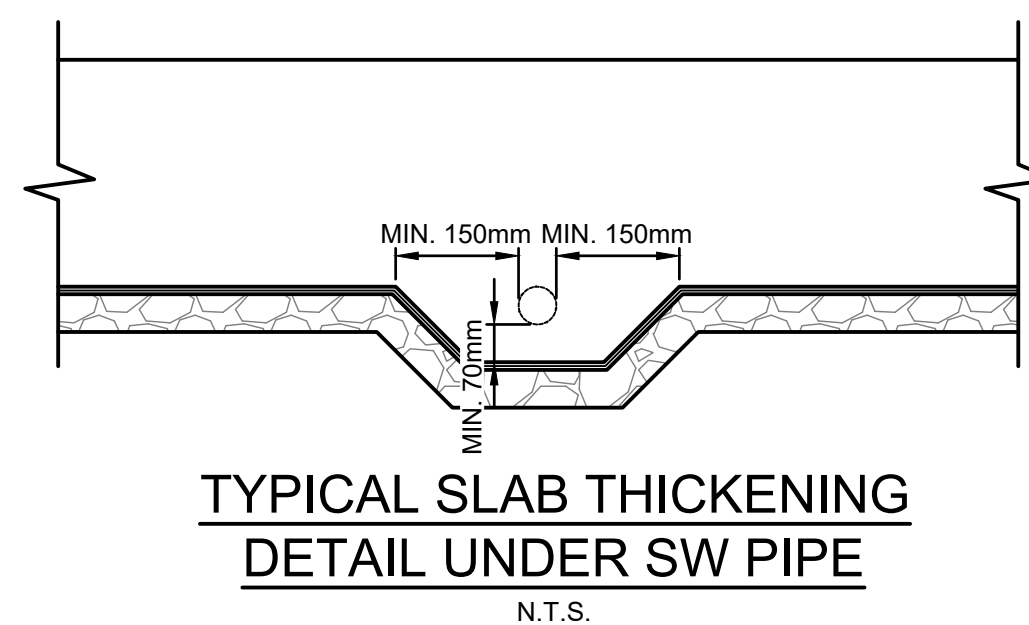
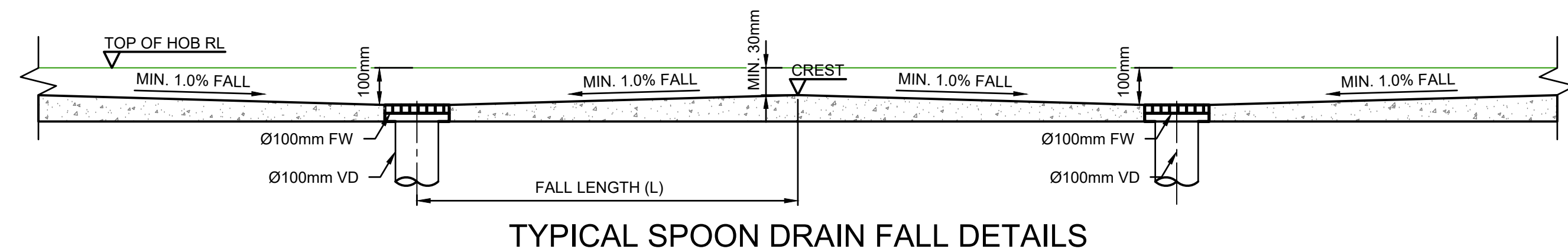
D) SIGN SHALL BE AFFIXED USING SCREWS AT EACH CORNER OF THE SIGN

COLOURS:
"DANGER" & BACKGROUND = WHITE
ELLIPTICAL AREA = RED
RECTANGLE CONTAINING ELLIPSE = BLACK
BORDER AND OTHER LETTERING = BLACK

BASEMENT B1 PLAN
SCALE 1:250

E	ISSUE FOR COUNCIL COMMENTS	03/09/2024	YKK	SBF	Certification By Dr. Michel Chaya B.E., M.E. (Res), Ph.D., F.I.E. Aust., CPEng., Civil & Structural Engineer 	Architect PLACE STUDIO 74 KING ST, NEWTOWN NSW 2042 T 61 431 088 534 W: www.PlaceStudio.com.au Studio@PlaceStudio.com.au	Council EUROBODALLA SHIRE COUNCIL	Scale  SCALE 1:250 @ A1	TELFORDcivil DESIGN & CONSTRUCTION EXCELLENCE Level 14, 32 Smith Street, Parramatta NSW 2150 PO BOX 3579 Parramatta 2124 Email : info@telfordcivil.com.au Phone : 02 7809 4931 Company : Telford Consulting Pty Ltd	Project 20 HERADALE PARADE, BATEMANS BAY PROPOSED RESIDENTIAL DEVELOPMENT STORMWATER CONCEPT PLANS DEVELOPMENT APPLICATION	Drawing Title STORMWATER CONCEPT PLAN BASEMENT B1 SHEET 1 OF 3
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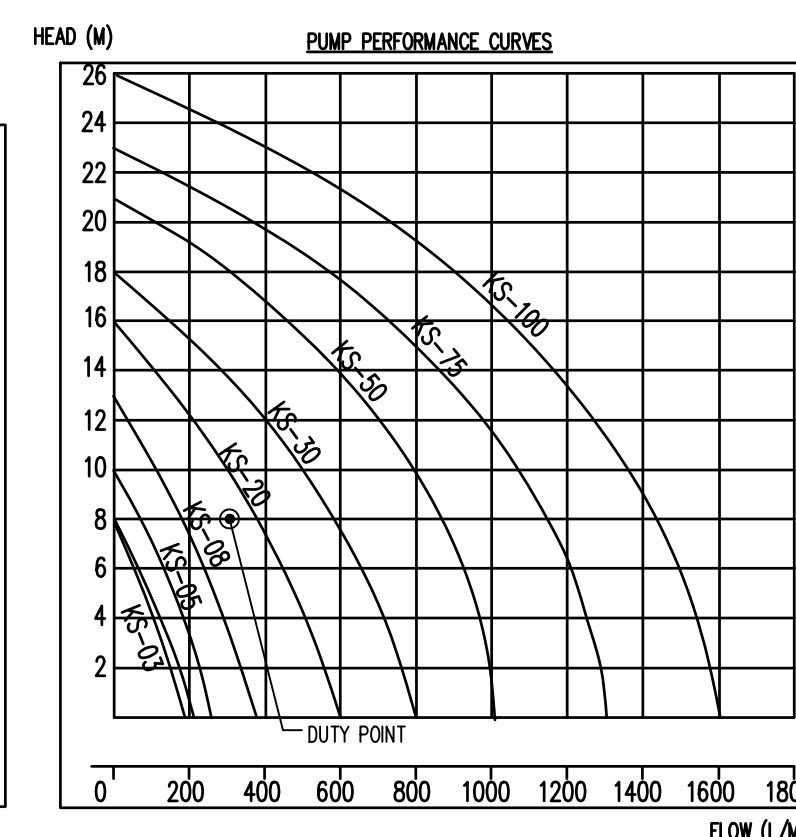
PUMP STORAGE VOLUME CALCULATION

AREA DRAINING TO SUMP=0.00m²

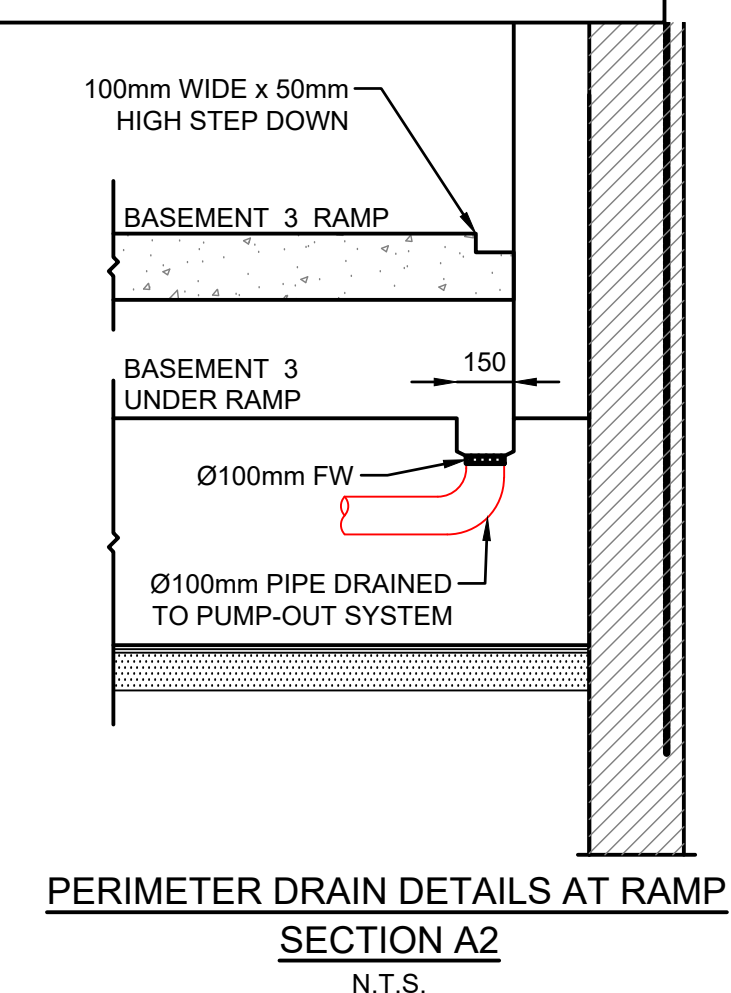
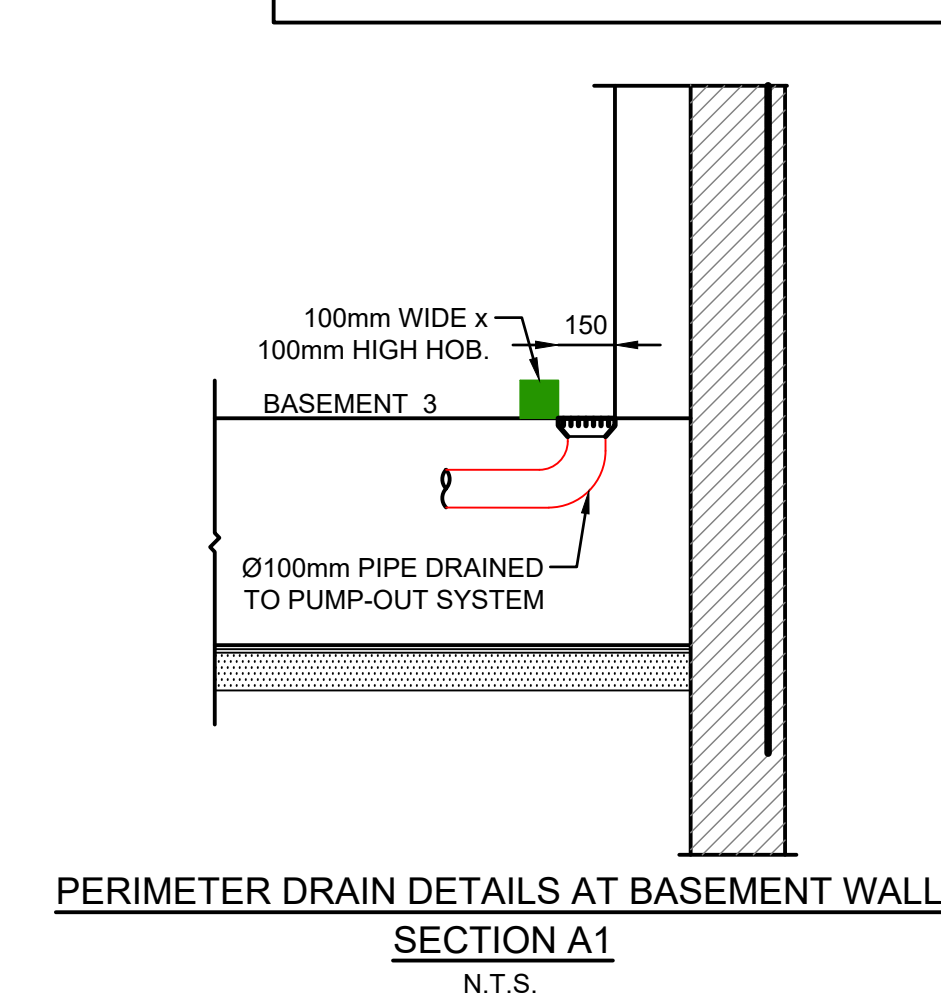
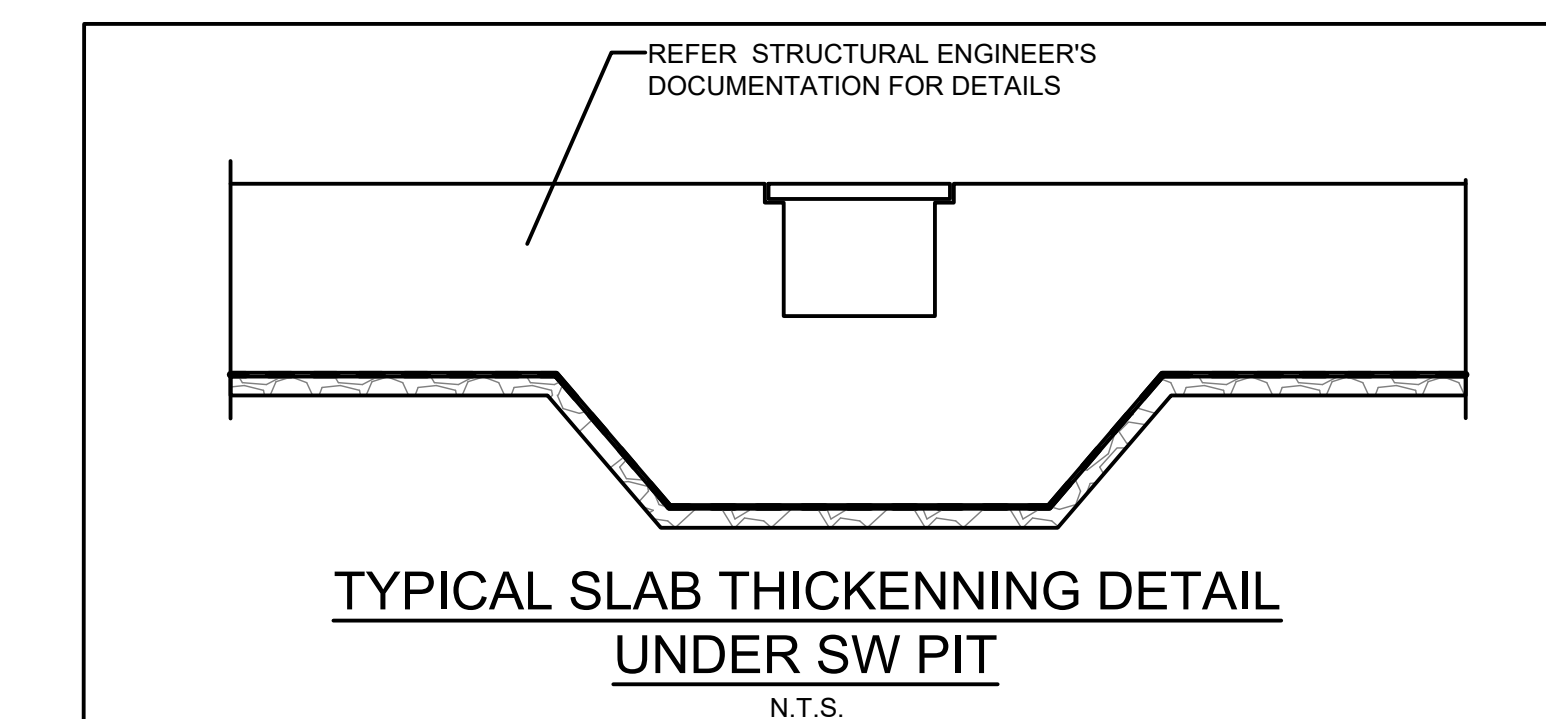
SUMP SIZE BASED ON 100 YEAR 2 HR STORM, I= 67.80 mm/hr,
Q=CIA/3600= 1 x 67.80 x 0.00/3600 = 0.00L/sec
VOLUME REQUIRED = 0.00x(2x60x60)=0L = 0.00m³
STORAGE PROVIDED 4.0x2.5x0.50= 5.00m³

PUMP OUT RATE BASED ON 100YR 5MIN STORM, I=279 mm/hr
(MIN RATE REQUIRED AS PER AS3500.3 IS 10 L/sec)
 $Q = CIA/3600 = 1 \times 279 \times 0.00/3600 = 0.00 \text{ L/sec}$

DUAL KS-20 PUMP OR EQUIVALENT TO BE INSTALLED IN SUMP
AND CONNECTED TO CONTROL PANEL WHICH WILL ALLOW
FOR THE PUMP TO OPERATE SIMULTANEOUSLY ON HIGH
LEVEL WITH ALARM AT 10 L/sec AT 9m HEAD



Type	Output		Outlet		Rated		Maximum		Weigh	Dimension		
					Head Capacity		Head	Capacity				
	HP	kW	mm	Inch	M	LPM	M	LPM		Kg	L(mm)	W(mm)
KS-03	1/3	0.25	40	1 1/2"	3	130	8	180	9	188	141	305
KS-04	1/2	0.4	50	2"	5	150	8	220	11	208	140	359
KS-05	1/2	0.4	50	2"	5	160	10	260	14	230	156	375
KS-08	1	0.75	50	2"	6	240	13	380	21	290	180	425
KS-20	2	1.5	80	3"	10	300	16	600	31	278	182	475
KS-30	3	2.2	80	3"	10	500	18	800	42	390	250	450
KS-50	5	3.7	100	4"	10	800	21	1100	48	450	240	530
KS-75	7 1/2	5.6	100	4"	15	800	23	1300	60	550	310	590
KS-100	10	7.5	150	6"	18	900	25	1600	70	550	310	610



NOT FOR CONSTRUCTION

[illegible]

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Council
EUROBODALLA
SHIRE COUNCIL

Scale



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SCALE 1:50 @ A1

TELFORD CIVIL
DESIGN & CONSTRUCTION EXCELLENCE

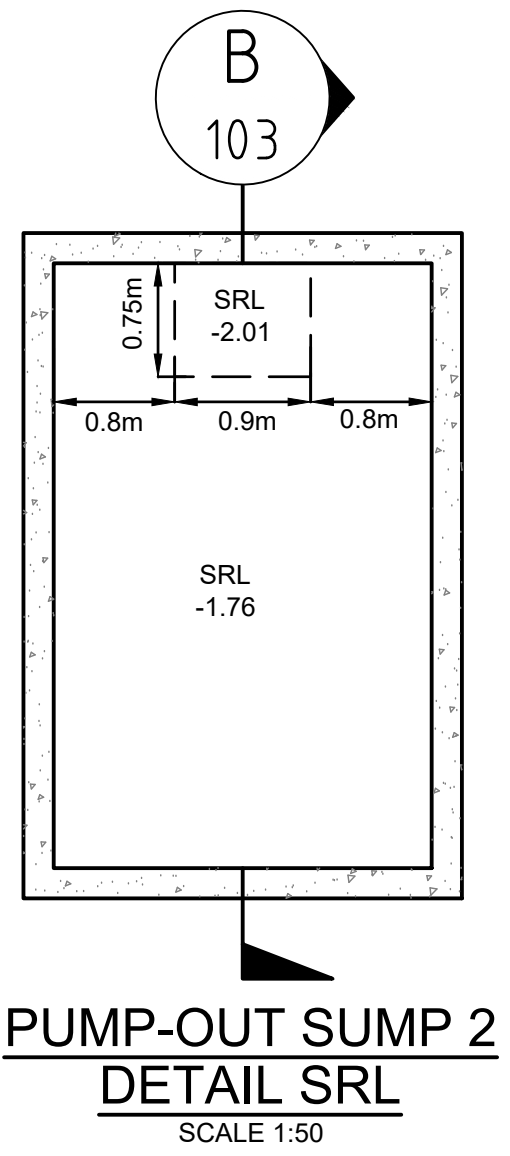
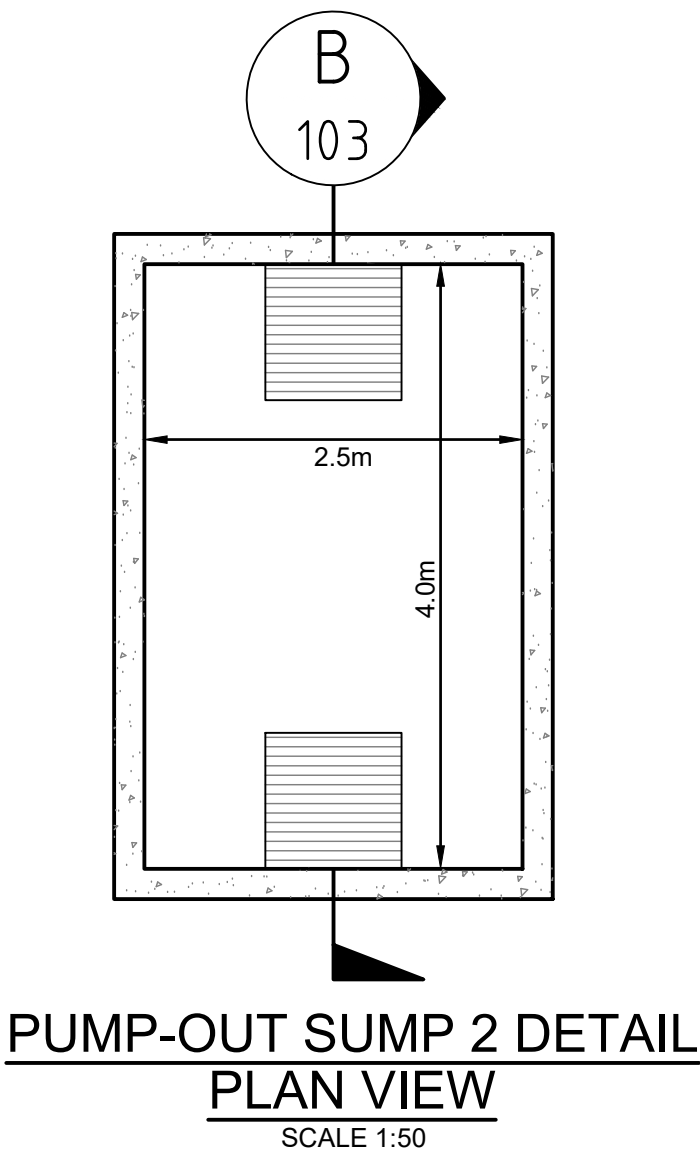
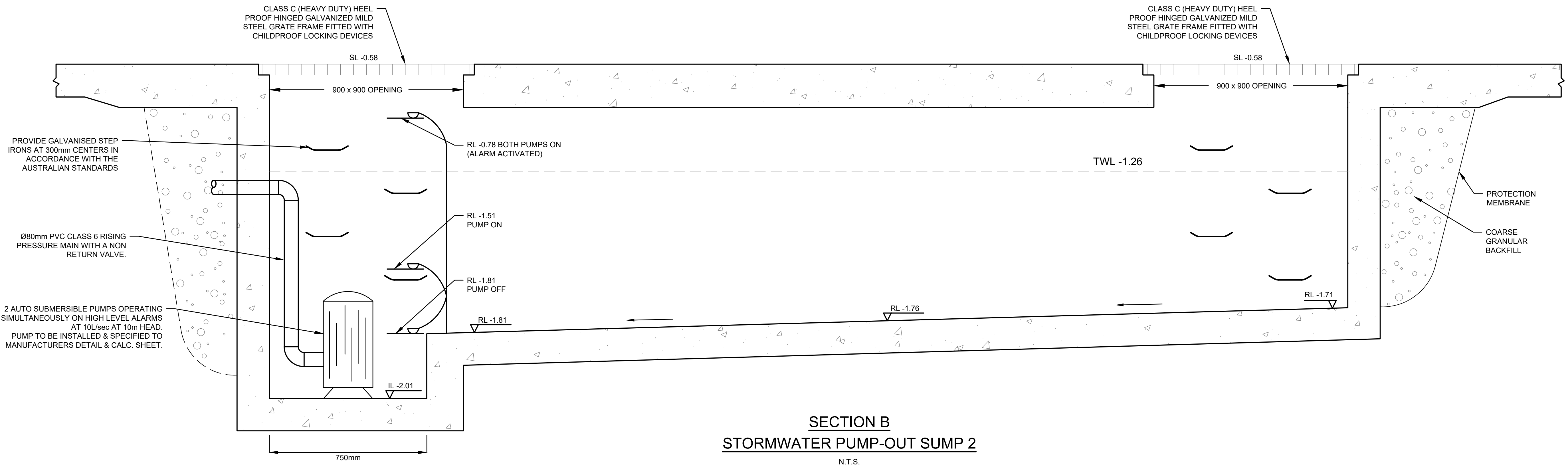
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Project
20 HERADALE PARADE, BATEMANS BAY
PROPOSED RESIDENTIAL DEVELOPMENT
STORMWATER CONCEPT PLANS
DEVELOPMENT APPLICATION

Drawing Title	STORMWATER CONCEPT PLAN BASEMENT B1 SHEET 2 OF 3
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Scale	A1	Project No.	Dwg. No.	Issued
As Shown		22500	102	C



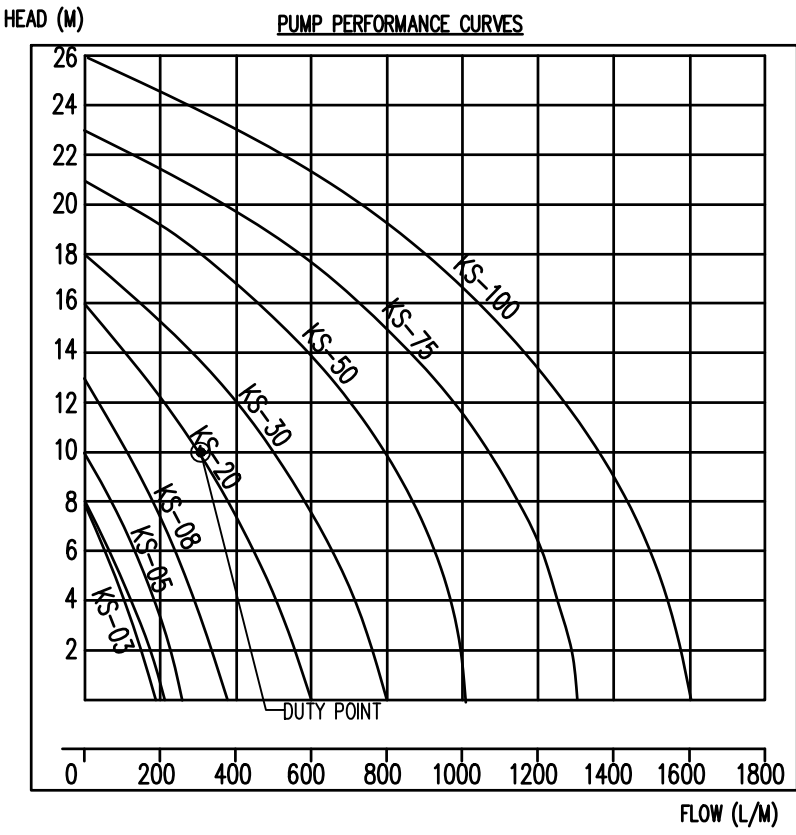
PUMP STORAGE VOLUME CALCULATION

AREA DRAINING TO SUMP= 0.00 m²

SUMP SIZE BASED ON 100 YEAR 2 HR STORM, I= 67.80 mm/hr,
Q=CIA/3600= 1 x 67.80 x 0.00/3600 = 0.00L/sec
VOLUME REQUIRED = 0.00x(2x60x60) =0L = 0.00m³
STORAGE PROVIDED 4.0x2.5x0.50= 5.00m³

PUMP OUT RATE BASED ON 100YR 5MIN STORM, I=279 mm/hr
(MIN RATE REQUIRED AS PER AS3500.3 IS 10 L/sec)
Q=CIA/3600= 1 x 279 x 0.00/3600 = 0.00 L/sec

DUAL KS-30 PUMP OR EQUIVALENT TO BE INSTALLED IN SUMP AND CONNECTED TO CONTROL PANEL WHICH WILL ALLOW FOR THE PUMP TO OPERATE SIMULTANEOUSLY ON HIGH LEVEL WITH ALARM AT 10 L/sec AT 10m HEAD



Type	Output		Outlet		Rated Head Capacity		Maximum Capacity		Weigh Kg	Dimension		
	HP	kW	mm	Inch	M	LPM	M	LPM		L(mm)	W(mm)	H(mm)
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KS-100	10	7.5	150	6"	18	900	25	1600	70	550	310	610

NOT FOR CONSTRUCTION

	PROPOSED STORMWATER DRAINAGE PIPE
	PROPOSED STORMWATER DRAINING TO OSD
	PROPOSED STORMWATER BYPASSING OSD
	Ø100 HDPE OR PVC WRAPPED IN 20mm ABLEFLEX STORMWATER DRAINAGE PIPE CAST IN SLAB
	Ø65 HDPE OR PVC WRAPPED IN 20mm ABLEFLEX STORMWATER DRAINAGE PIPE CAST IN SLAB
	PROPOSED STORMWATER PIPE TO RAINWATER TANK
	Ø100mm SUBSOIL DRAINAGE TO BE WRAPPED IN GEOTEXTILE BIDIMA34
	RISER PIPE
	Ø300 CLEANING EYE
	RAINWATER TANK
	DOWNPIPE Ø100
	VERTICAL DROP Ø100
	PLANTER GRATE Ø150
	FLOOR GRATE Ø150
	FLOOR GRATE 200x200 (ALLOW MINIMUM 1.0% FALL TO FG)
	FLOOR GRATE 300x300 (ALLOW MINIMUM 1.0% FALL TO FW)
	RAINWATER OUTLET Ø260 SPS (ALLOW MINIMUM 1.0% FALL TO RWO)
	SUSPENDED PLANTER BOX RAINWATER OUTLET
	DESIGN SURFACE LEVEL
	EXISTING SURFACE LEVEL
	INVERT LEVEL
	AC CONDENSER TUNDISH TO MANUFACTURER'S DETAILS
	Ø50mm HDPE OR PVC WRAPPED IN 20mm ABLEFLEX CAST IN SLAB
	Ø50mm EMERGENCY OVERFLOW SPITTERS/PIPES
	EXISTING STORMWATER
	EXISTING WATER MAIN
	EXISTING SEWER MAIN
	EXISTING TELSTRA
	EXISTING ELECTRICAL
	EXISTING GAS
	EXISTING OPTIC FIBER

Scale 1:250	A1	Project No. 22500	Dwg. No. 104	Issu F
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CATCHMENT LEGEND

ROOF AREA TO SFC1 = 919.87m²

IMPERVIOUS AREA TO SFC1 = 16.20m²

ROOF AREA TO SFC2 = 592.79m²

IMPERVIOUS AREA TO SFC2 = 502.33m²

ROOF AREA TO SFC3 = 879.08m²

IMPERVIOUS AREA TO SFC3 = 198.39m²

IMPERVIOUS AREA TO BIO-RETENTION 1 = 829.52m²

PERVIOUS AREA TO BIO-RETENTION 1 = 1540.94m²

IMPERVIOUS AREA TO BIO-RETENTION 2 = 203.74m²

PERVIOUS AREA TO BIO-RETENTION 2= 1231.57m²

PERVIOUS BYPASS AREA = 61.19m²

FLOODED AREA EXCLUDED FROM CALCULATION = 1434.49m²

TOTAL AREA TO SFC1 = 936.07m²

TOTAL AREA TO SFC2 = 1095.12m²

TOTAL AREA TO SFC3 = 1,077.47m²

TOTAL AREA TO BIO-RETENTION 1 BYPASSING OSD/SFC = 2370.46m²

TOTAL AREA TO BIO-RETENTION 2 BYPASSING OSD/SFC = 1435.31m²

TOTAL AREA BYPASSING OSD/SFC & BIO-RETENTION = 61.19m²

TOTAL SITE AREA = 8,410.11m²

TOTAL SITE AREA = 6975.62m² (FLOODED AREA EXCLUDED)

TOTAL AREA TO SFC/BIO-RETENTION = 6896.86m² (FLOODED AREA EXCLUDED)

FILTRATION UNIT MAINTENANCE SCHEDULE

GENERAL NOTES

1. INLET AND OUTLET PIPES TO BE IN ACCORDANCE WITH APPROVED PLANS.

2. A HIGH FLOW BYPASS ARRANGEMENT OR DISSIPATION STRUCTURE MAY BE REQUIRED TO MINIMISE RE-SUSPENSION OF SOLIDS OR ANY SIGNIFICANT INERTIAL FORCES ON THE CARTRIDGES.

3. ALL WATER QUALITY TREATMENT DEVICES REQUIRE PERIODIC MAINTENANCE. REFER TO OPERATION AND MAINTENANCE MANUAL FOR GUIDELINES AND ACCESS REQUIREMENTS.

4. SITE SPECIFIC PRODUCTION DRAWING WILL BE PROVIDED ON PLACEMENT OF ORDER.

5. THE INVERT LEVEL OF THE INLET PIPE MUST BE GREATER THAN THE RL OF THE FALSE FLOOR WITHIN THE CARTRIDGE CHAMBER.

6. CONCRETE STRUCTURE AND ACCESS COVERS DESIGNED AND PROVIDED BY OTHERS. ACCESS COVERS TO BE A MINIMUM 900 X 900 ABOVE CARTRIDGES. OH&S REGARDING ACCESS COVERS AND TANK ACCESS TO BE ASSESSED BY OTHERS ON SITE.

7. THE STRUCTURE THICKNESSES SHOWN ARE FOR REPRESENTATIONAL PURPOSES.

8. DRAWINGS NOT TO SCALE.

STORMFILTER CARTRIDGE FILTRATION UNIT

FALSE FLOOR

PIT BASE

STORMFILTER CARTRIDGE

DETAIL

N.T.S.

Facility Component Requiring Maintenance	Maintenance Activity	When Maintenance Activity Is Required	Expected Facility Performance After Maintaining	INSPECTION/MINOR MAINTENANCE (TIMES/YEAR)	MAJOR MAINTENANCE (TIMES/YEAR)
StormFilter® Cartridges and Containment Structure	Trash and Debris Removal	Floatable objects or other trash is present in the filter. Remove to avoid hindrance of filtration and eliminate unsightly debris and trash.	Permanent removal from storm system.	2 (and after major storms)	1 (except in case of a spill)
	Cartridge Replacement and Sediment Removal	1. Media has been contaminated by high levels of pollutants, such as after a spill.	1. New media is able to effectively treat stormwater.	-	-
Drainage System Piping	Flushing With Water	Drainage system is obstructed by debris or sediment.	Outflow is not restricted.	-	-

	Sources	Residual Load	% Reduction
Flow (ML/yr)	2.849	2.806	1.535
Total Suspended Solids (kg/yr)	282.2	53.74	80.96
Total Phosphorus (kg/yr)	0.7505	0.2197	70.72
Total Nitrogen (kg/yr)	7.088	3.544	50
Gross Pollutants (kg/yr)	72.01	0	100

MUSIC RESULTS

N.T.S.

MUSIC RESULTS

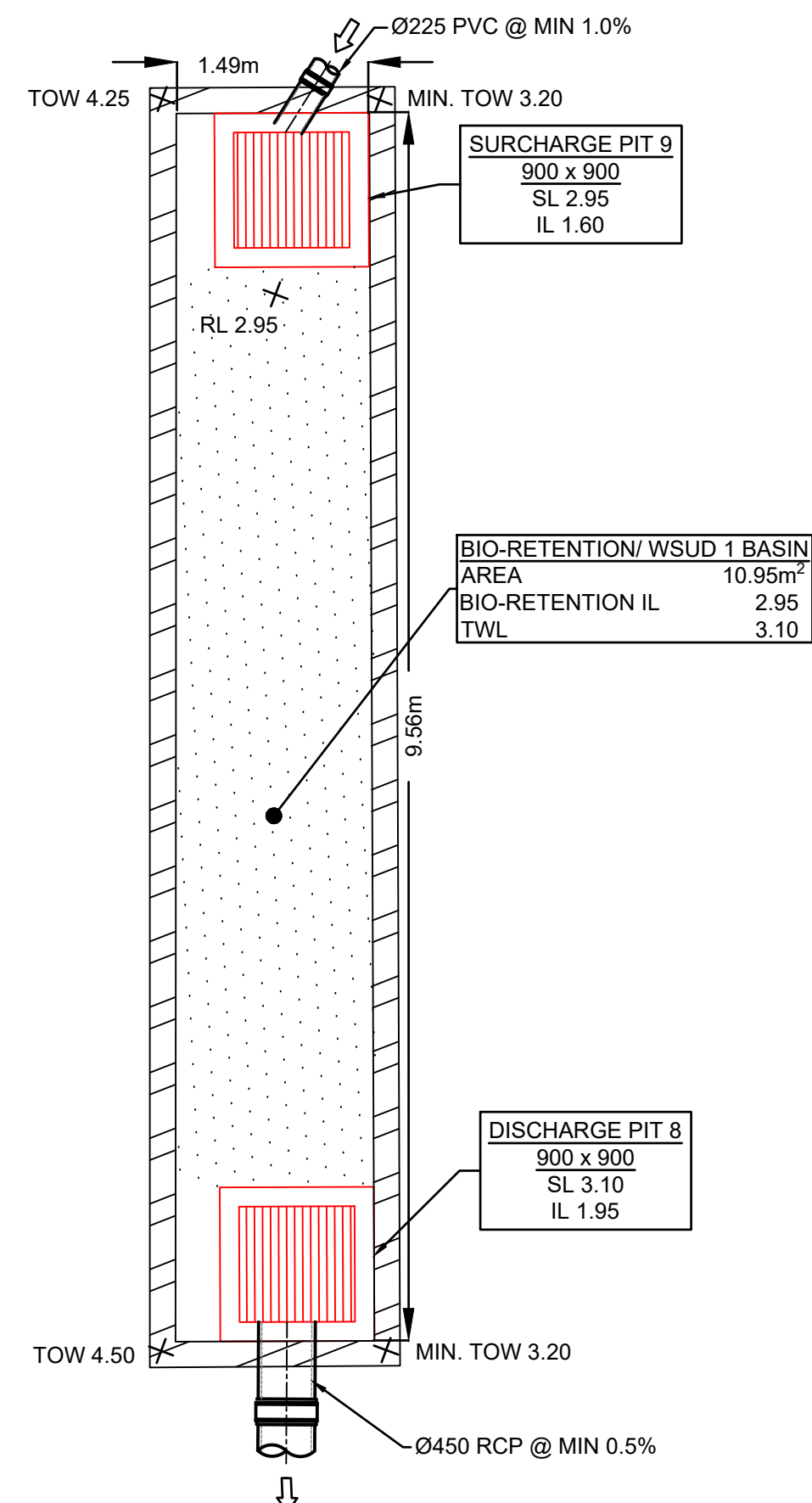
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CATCHMENT PLAN

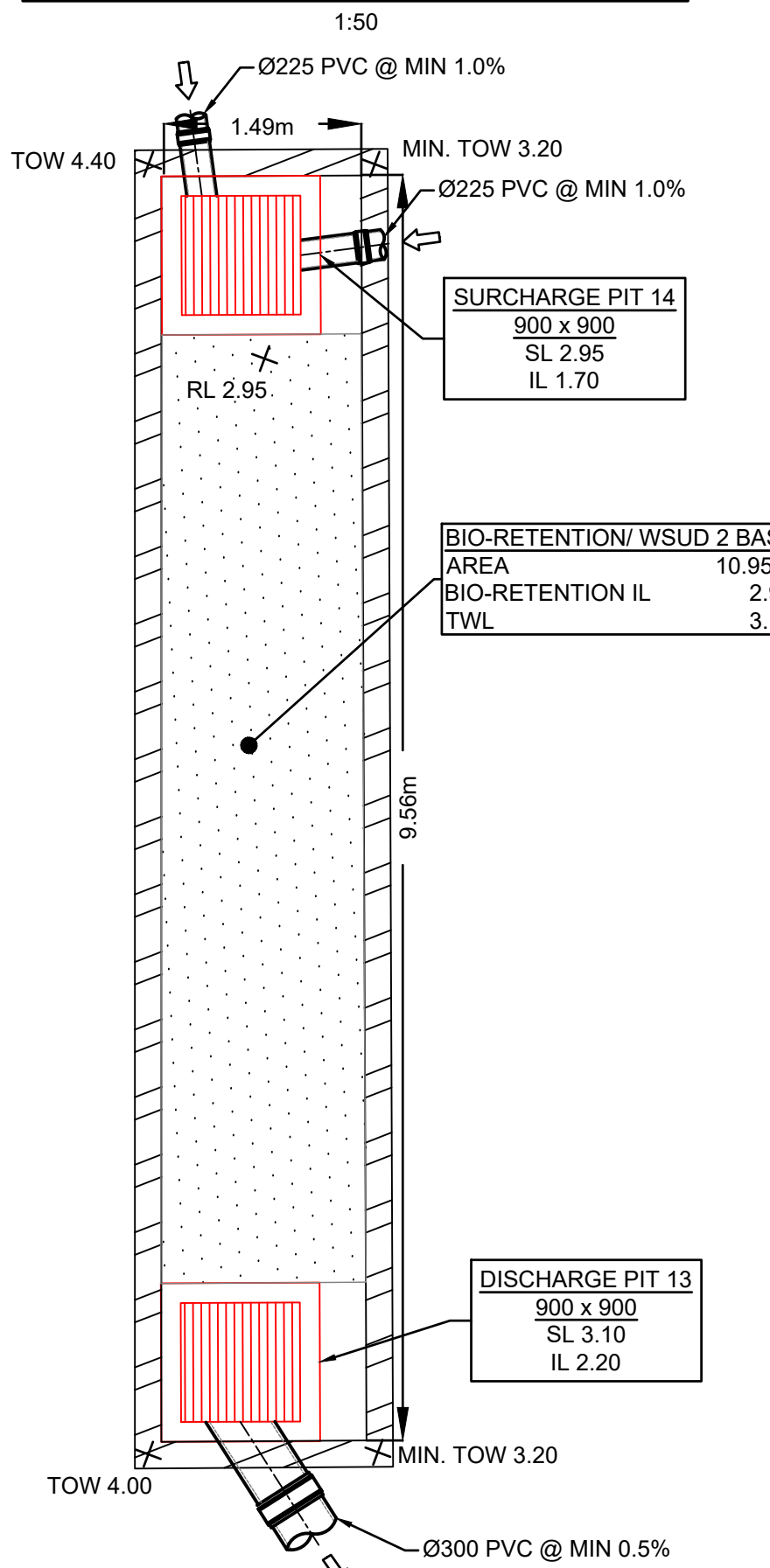
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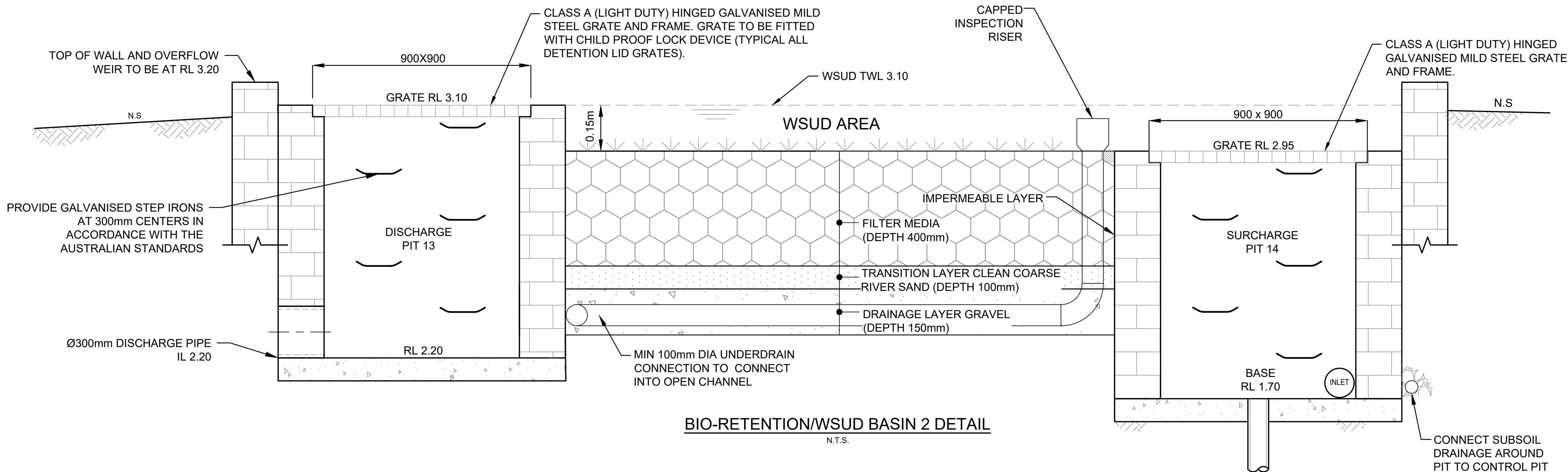
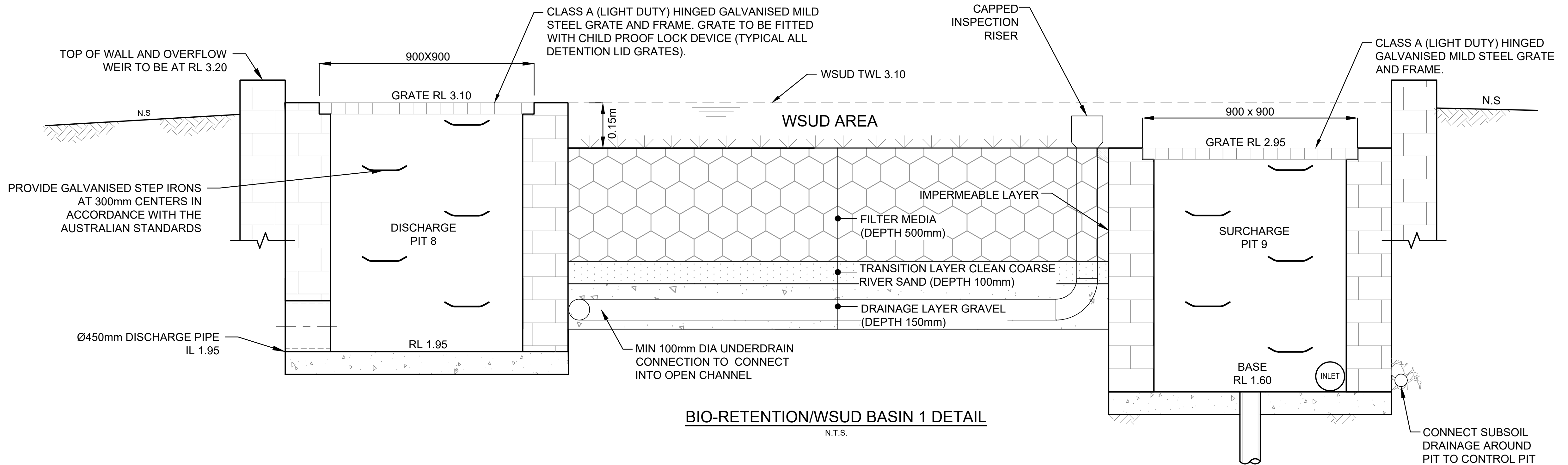
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BIO-RETENTION 1 PLAN VIEW



BIO-RETENTION 2 PLAN VIEW



NOT FOR CONSTRUCTION

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C	ISSUE FOR COUNCIL COMMENTS	24/11/2023	YKK	JSF
B	ISSUE FOR DEVELOPMENT APPLICATION	24/01/2023	YKK	JSF
A	ISSUE FOR DEVELOPMENT APPLICATION	16/01/2023	MJT	JSF

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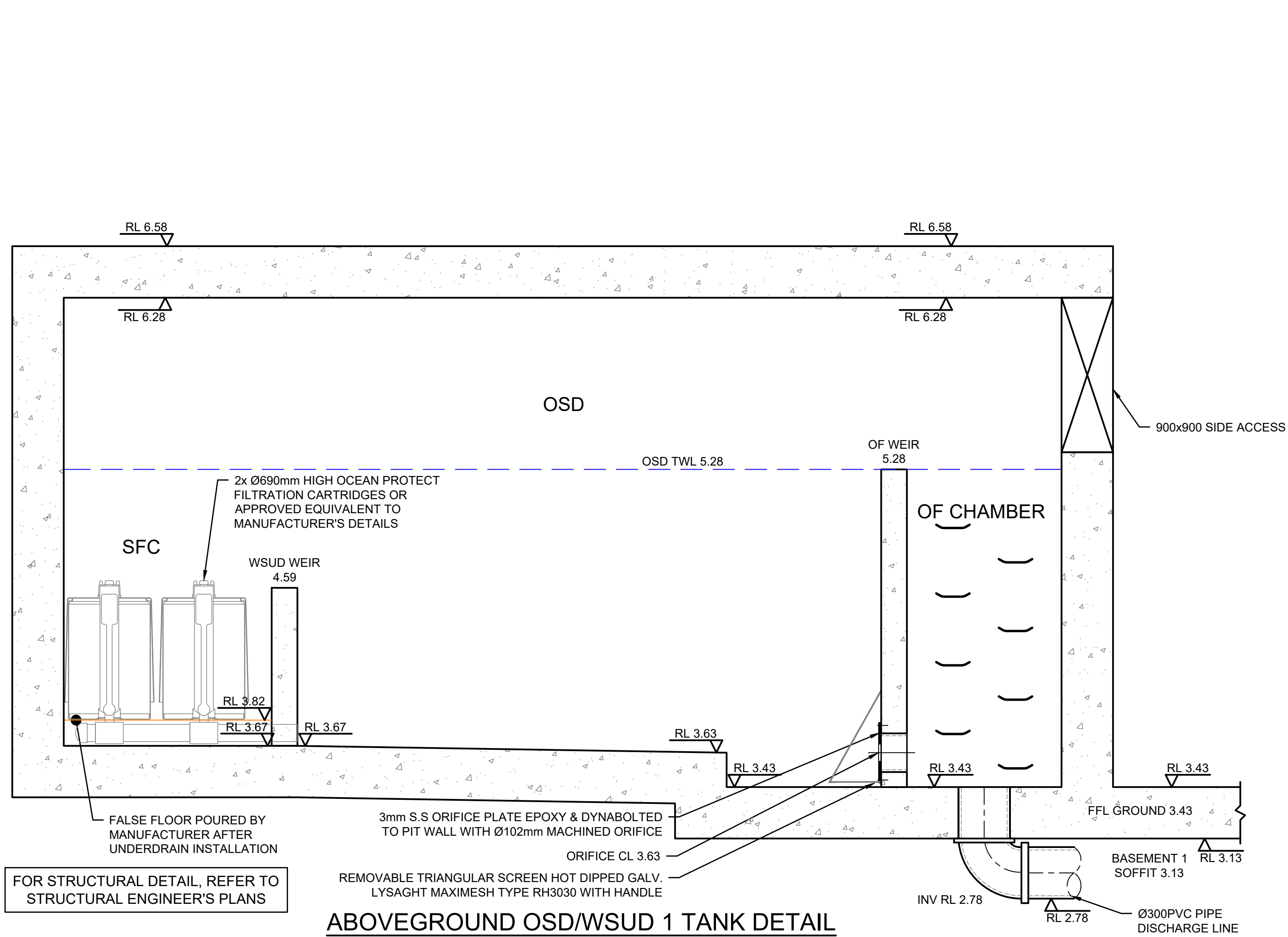
Council
EUROBODALLA SHIRE COUNCIL

Scale
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SCALE 1:50 @ A1

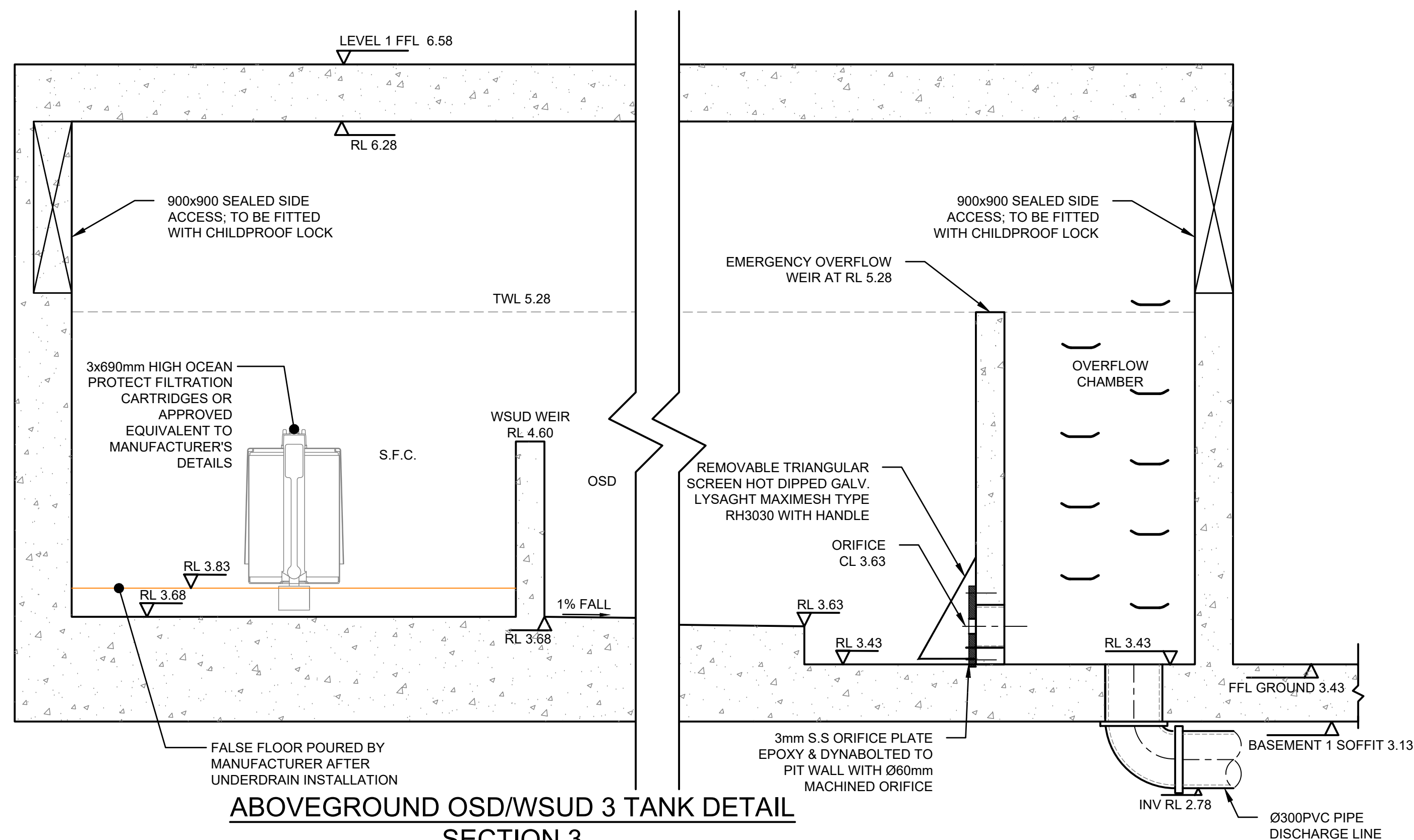
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Project
**20 HERADALE PARADE, BATEMANS BAY
PROPOSED RESIDENTIAL DEVELOPMENT
STORMWATER CONCEPT PLANS
DEVELOPMENT APPLICATION**

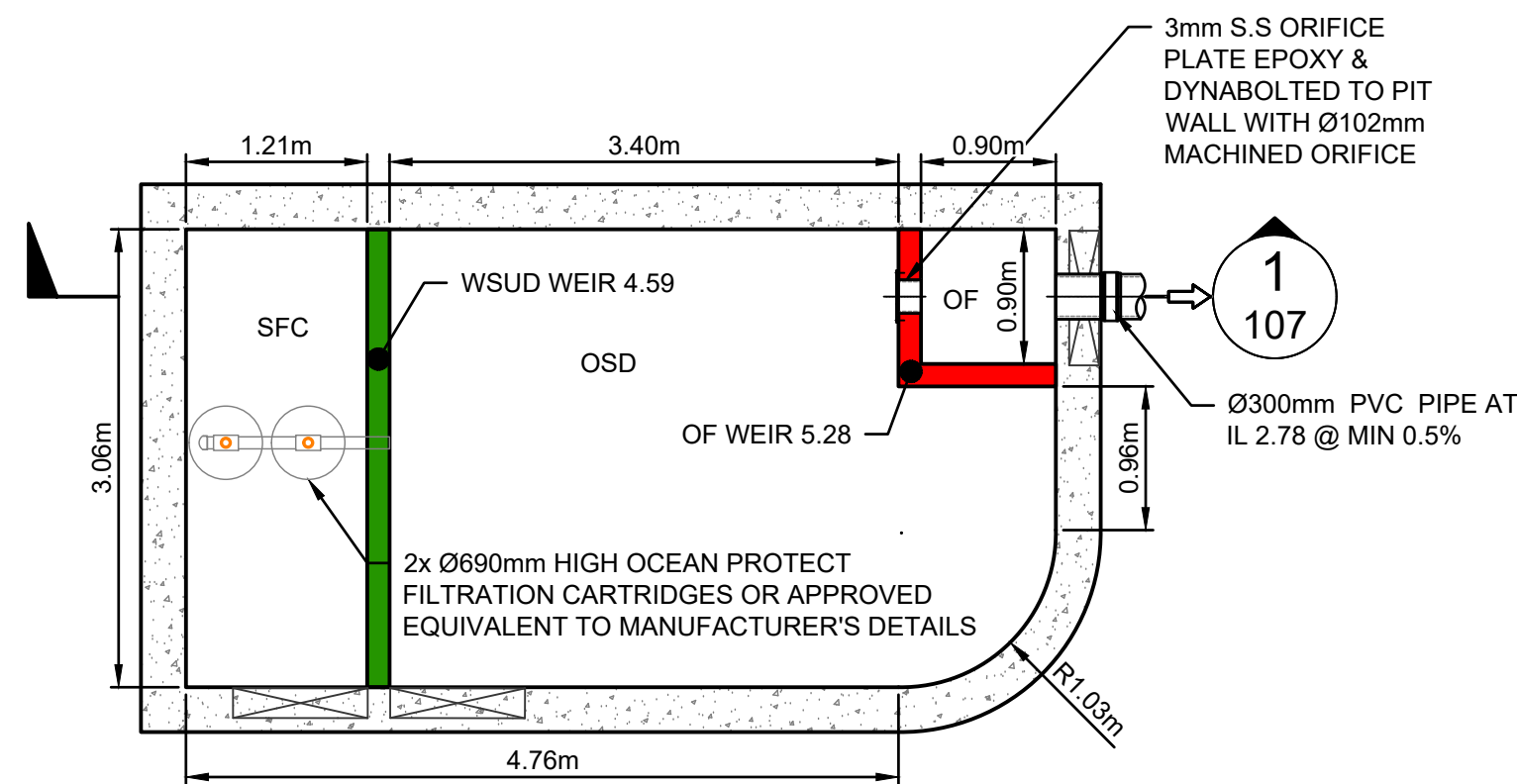
Drawing Title
BIO-RETENTION DETAILS
Scale A1 Project No. 22500 Dwg. No. 106 Issue C



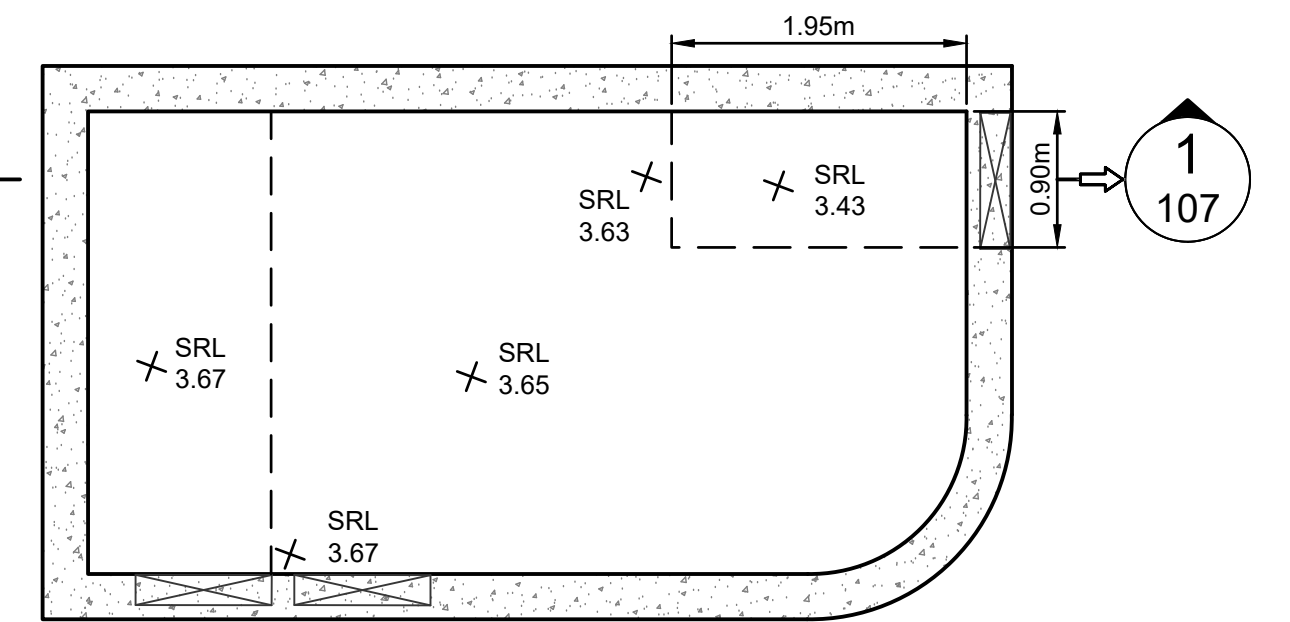
ABOVEGROUND OSD/WSUD 1 TANK DETAIL
SECTION 1
SCALE 1:20



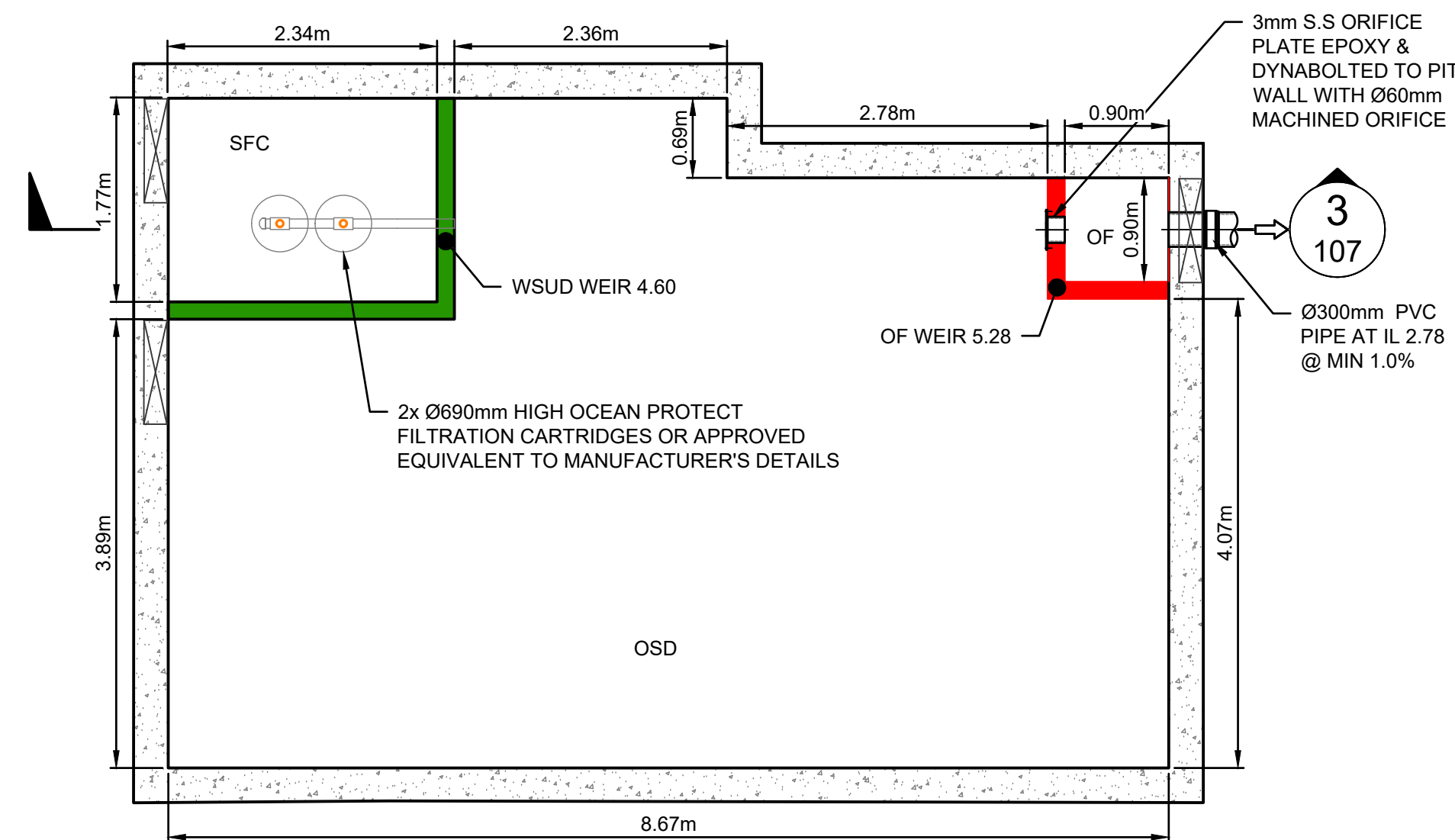
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SECTION 3
SCALE 1:20



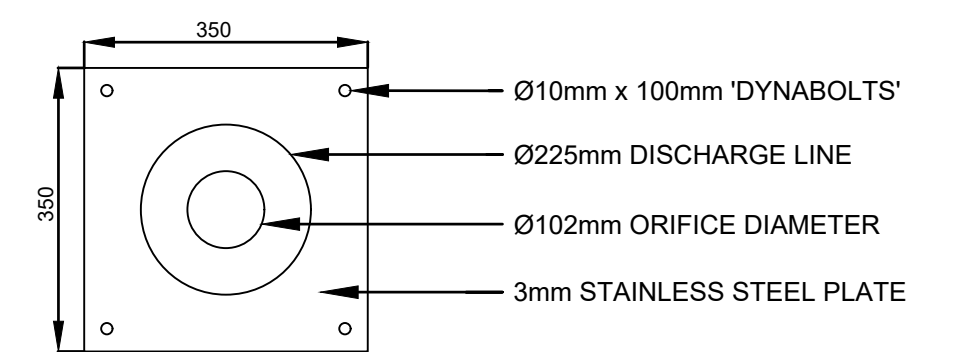
UNDERGROUND OSD 1 /WSUD INTERNAL WALLS DIMENSIONS & WEIR HEIGHT
SCALE 1:50



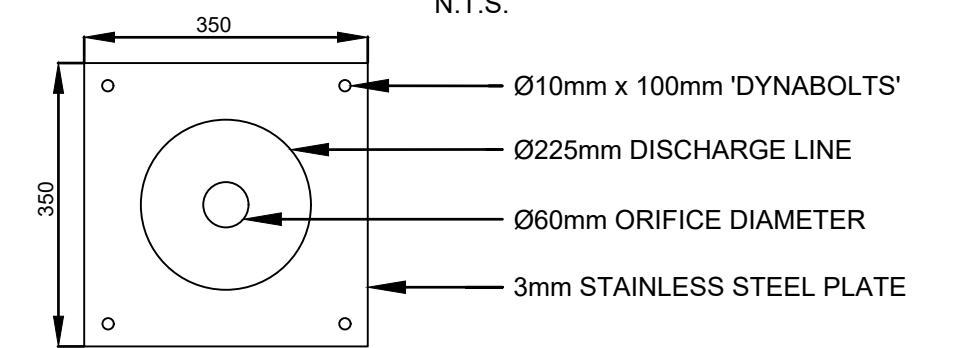
UNDERGROUND OSD 1/WSUD BOTTOM S.R.L.
SCALE 1:50



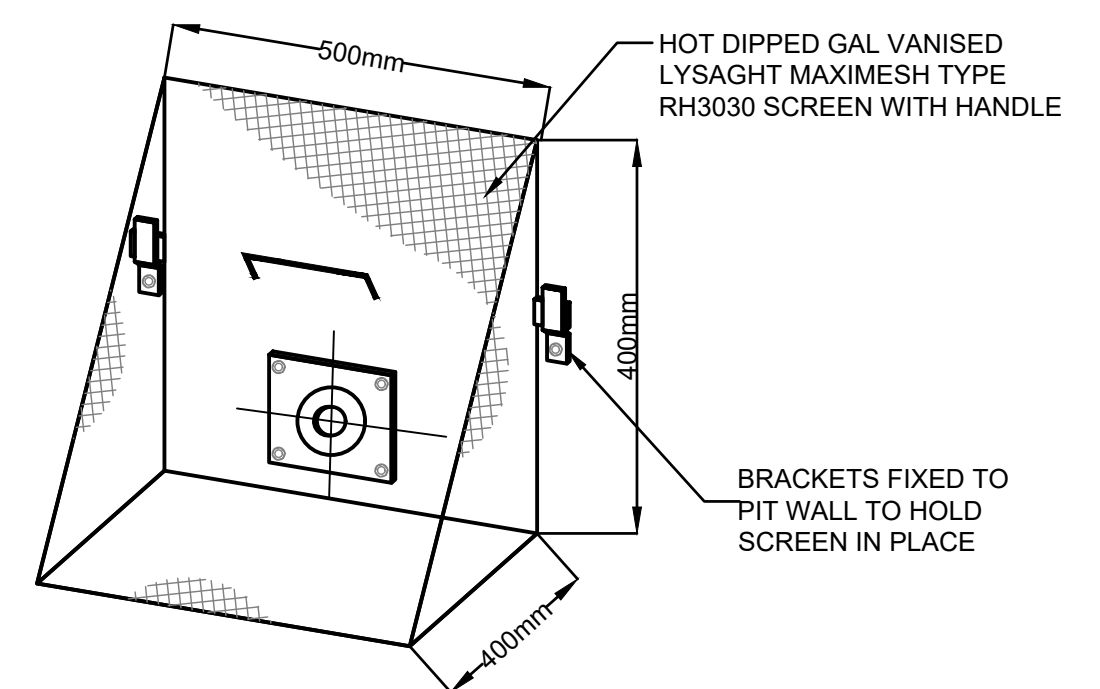
UNDERGROUND OSD 3 /WSUD INTERNAL WALLS DIMENSIONS & WEIR HEIGHT
SCALE 1:50



ORIFICE PLATE DETAIL TANK 1
N.T.S.



ORIFICE PLATE DETAIL TANK 3
N.T.S.



TRASH SCREEN DETAIL
N.T.S.

NOTE:
ALL ACCESS COVERS TO THE OSD TO BE FITTED WITH NON CORROSIVE, CHILDPROOF LOCKING DEVICES.

NOT FOR CONSTRUCTION

Issue	Description	Date	Design	Checked
C	ISSUE FOR COUNCIL COMMENTS	30/08/2024	YKK	JSF
B	ISSUE FOR COUNCIL COMMENTS	24/11/2023	YKK	JSF
A	ISSUE FOR DEVELOPMENT APPLICATION	16/01/2023	YKK	JSF

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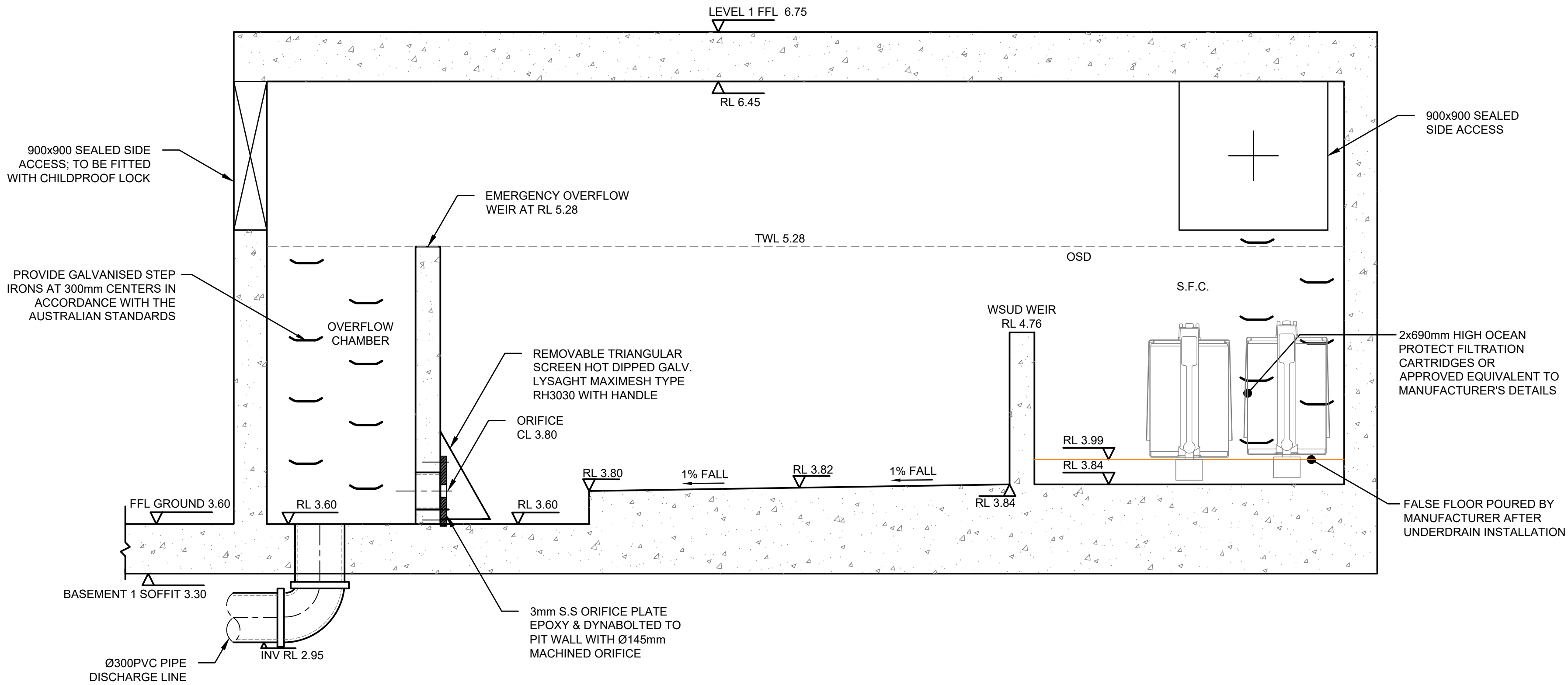
Council
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Scale
0 400 800 1200 mm
SCALE 1:20 @ A1
0 1 2 3 m
SCALE 1:50 @ A1

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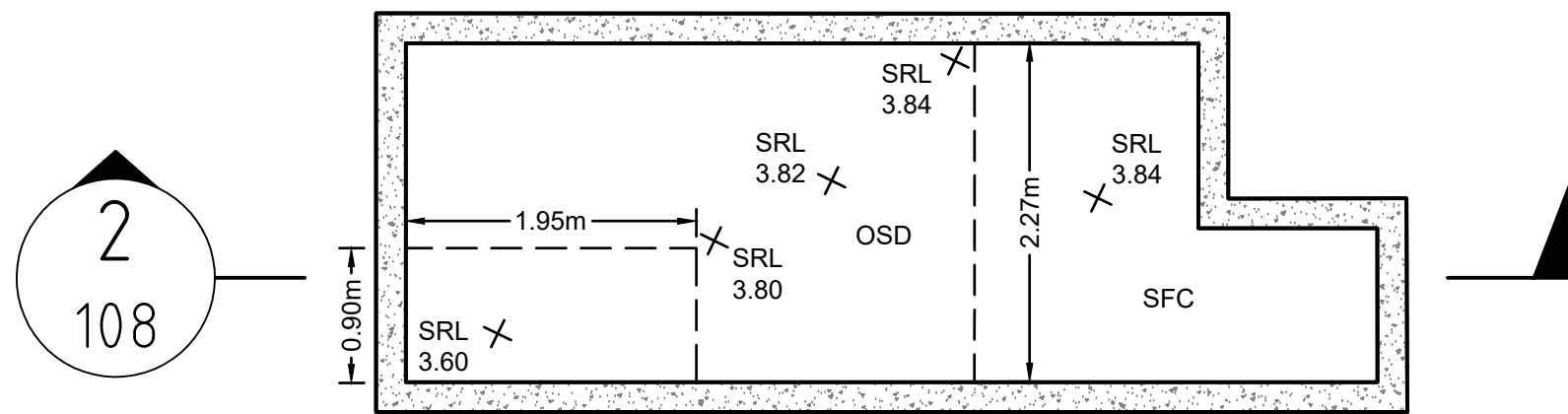
Project
**20 HERADALE PARADE, BATEMANS BAY
PROPOSED RESIDENTIAL DEVELOPMENT
STORMWATER CONCEPT PLANS
DEVELOPMENT APPLICATION**

Drawing Title
**ON-SITE DETENTION 1 & 3
DETAILS AND CALCULATIONS**
Scale A1 Project No. 22500 Dwg. No. 107 Issue C

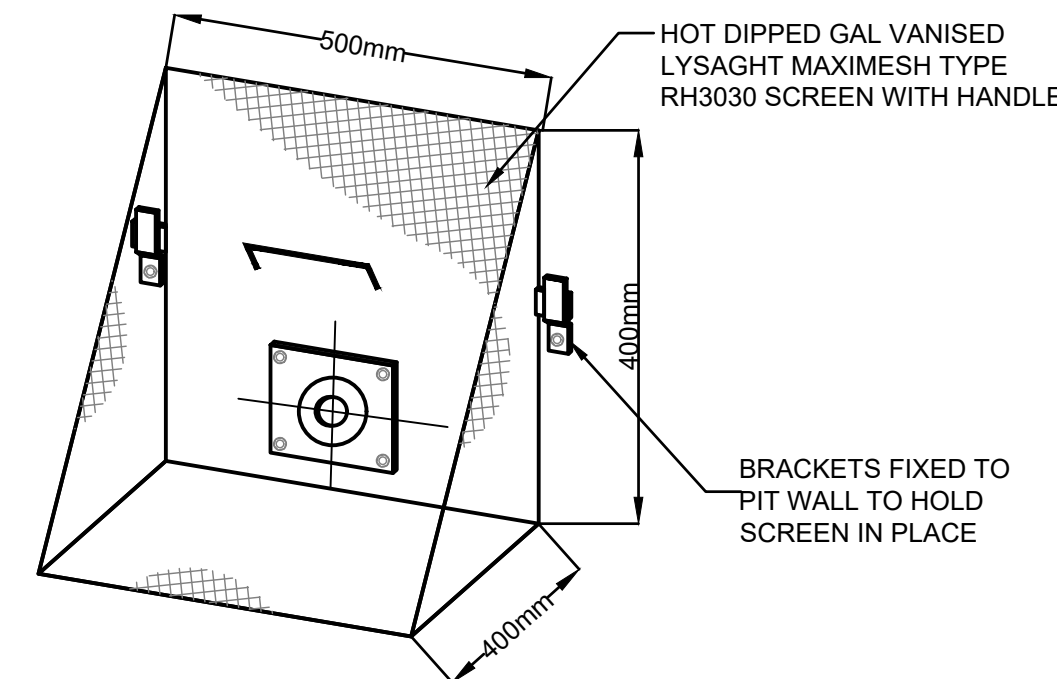


ABOVEGROUND OSD/WSUD 2 TANK DETAIL
SECTION 2
SCALE 1:20

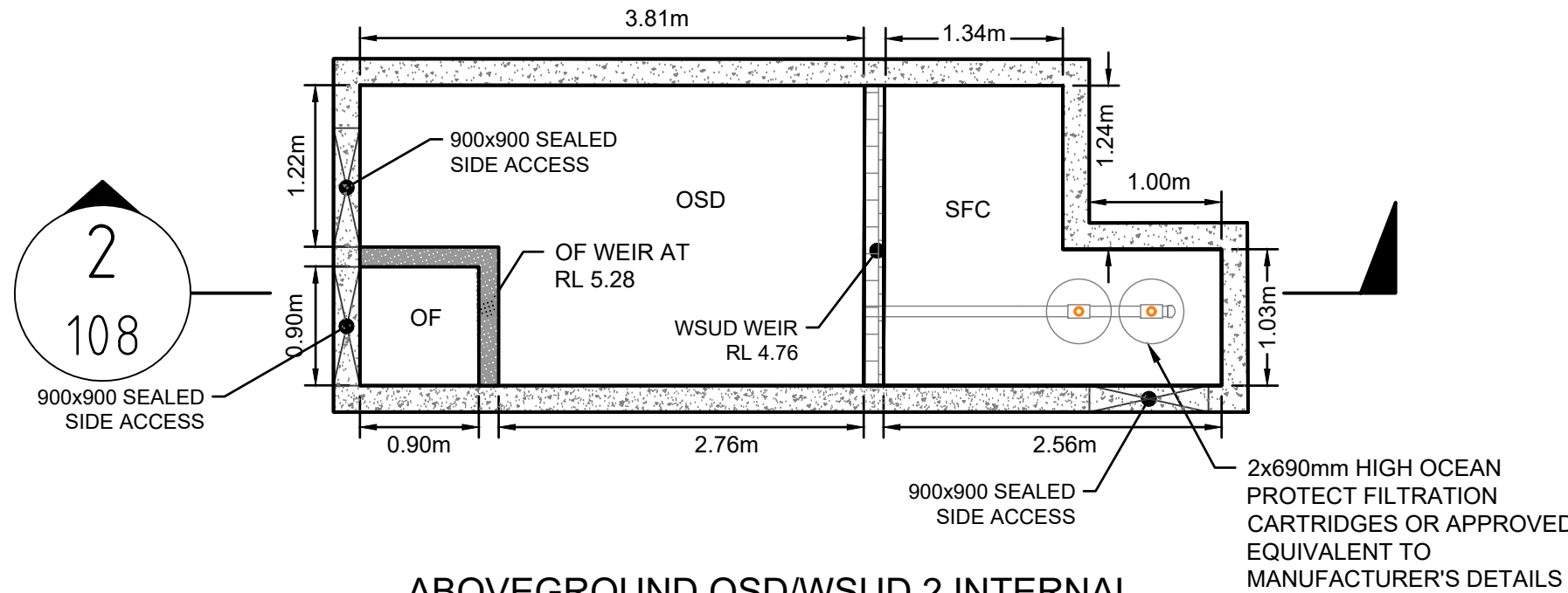
NOTE:
ALL ACCESS COVERS TO THE
OSD TO BE FITTED WITH NON
CORROSIVE, CHILDPROOF
LOCKING DEVICES.



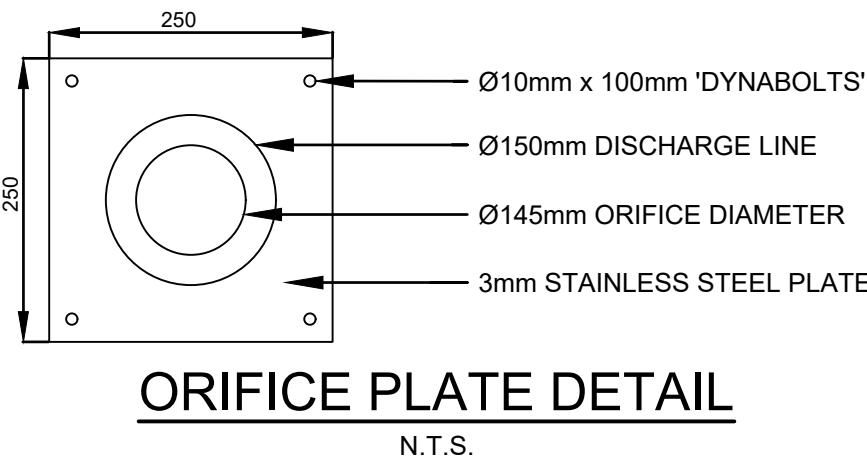
ABOVEGROUND OSD/WSUD 2
BOTTOM S.R.L.
SCALE 1:50



TRASH SCREEN DETAIL
N.T.S.



ABOVEGROUND OSD/WSUD 2 INTERNAL
WALLS' DIMENSIONS & WEIR HEIGHT
SCALE 1:50



ORIFICE PLATE DETAIL
N.T.S.

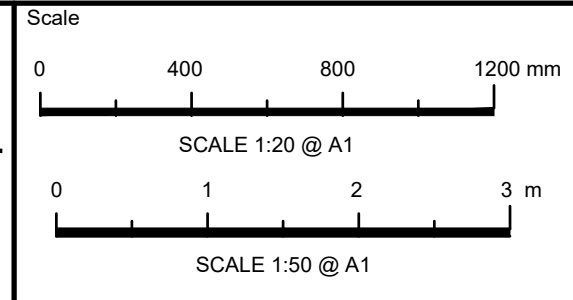
NOT FOR CONSTRUCTION

Issue	Description	Date	Design	Checked
D	ISSUE FOR COUNCIL COMMENTS	03/09/2024	YKK	SBF
C	ISSUE FOR COUNCIL COMMENTS	30/08/2024	YKK	JSF
B	ISSUE FOR COUNCIL COMMENTS	24/11/2023	YKK	JSF
A	ISSUE FOR DEVELOPMENT APPLICATION	16/01/2023	YKK	JSF

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Project
**20 HERADALE PARADE, BATEMANS BAY
PROPOSED RESIDENTIAL DEVELOPMENT
STORMWATER CONCEPT PLANS
DEVELOPMENT APPLICATION**

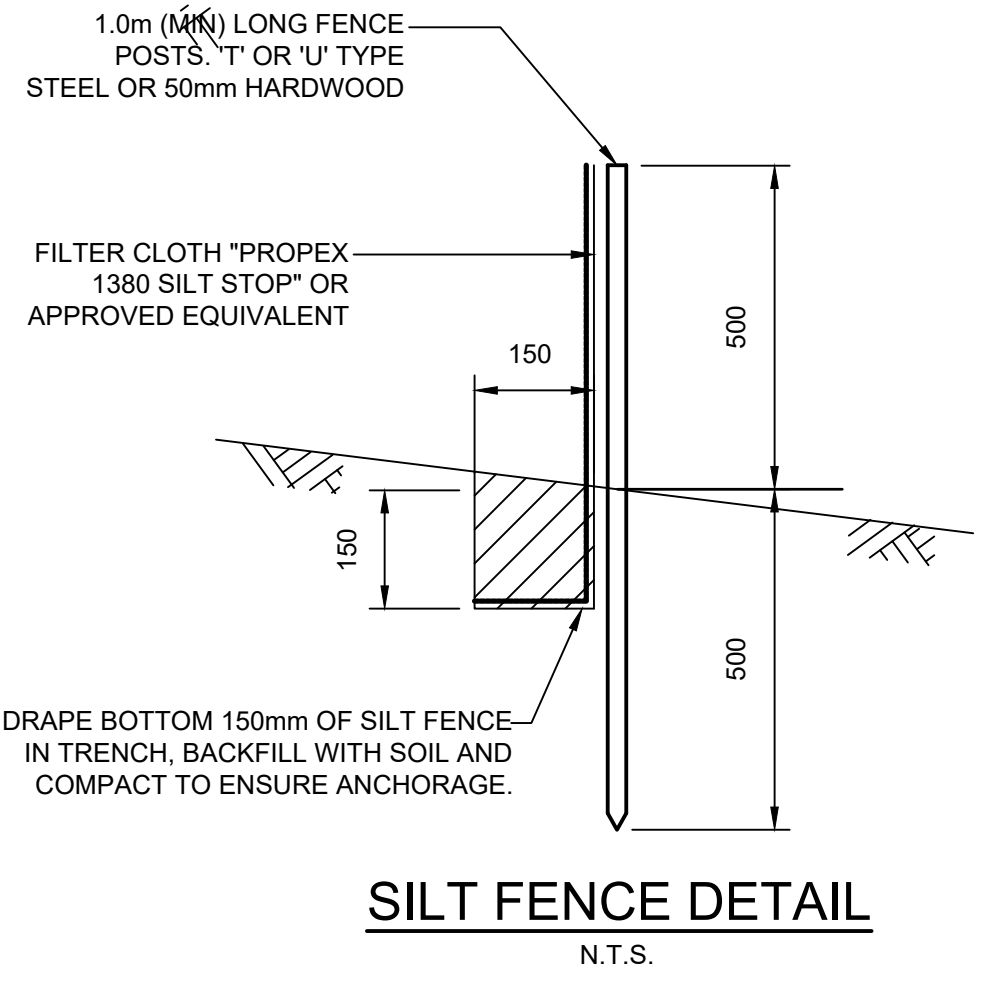
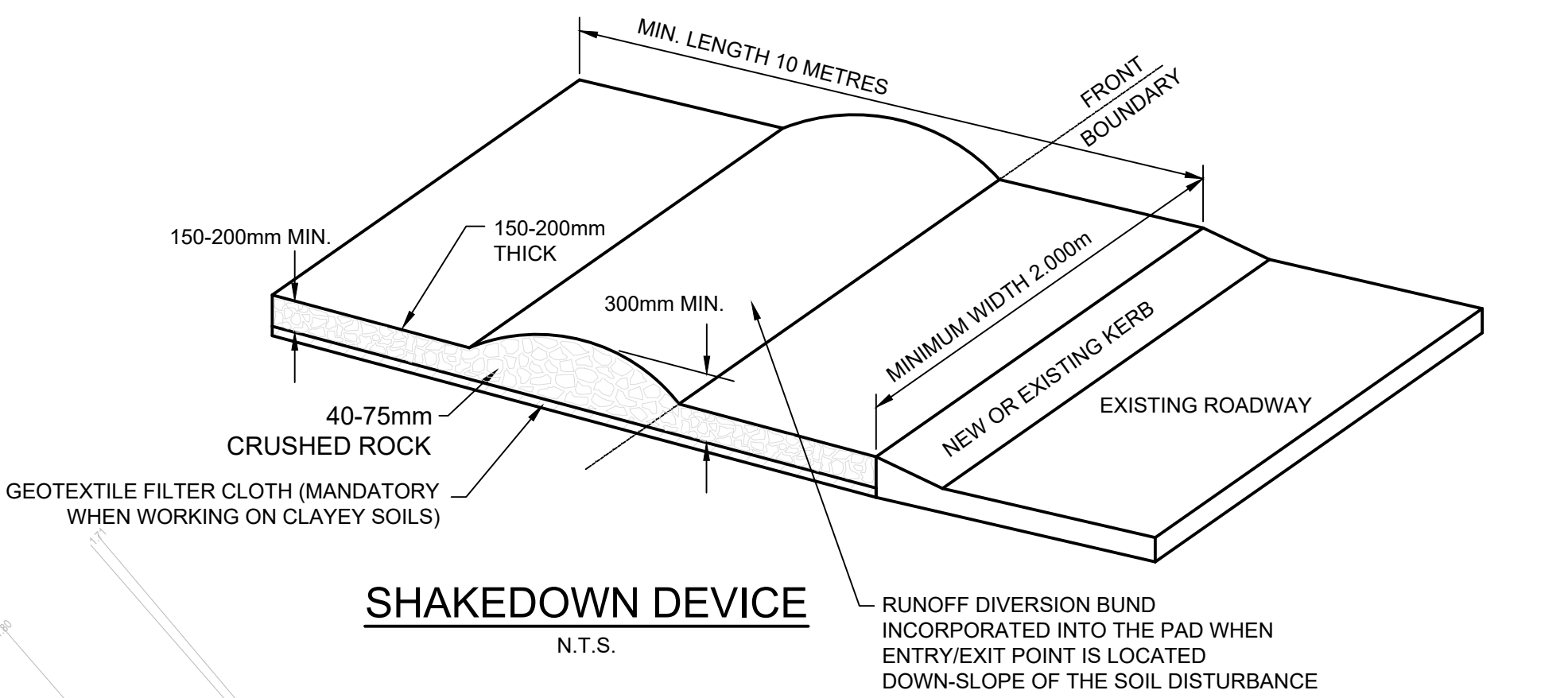
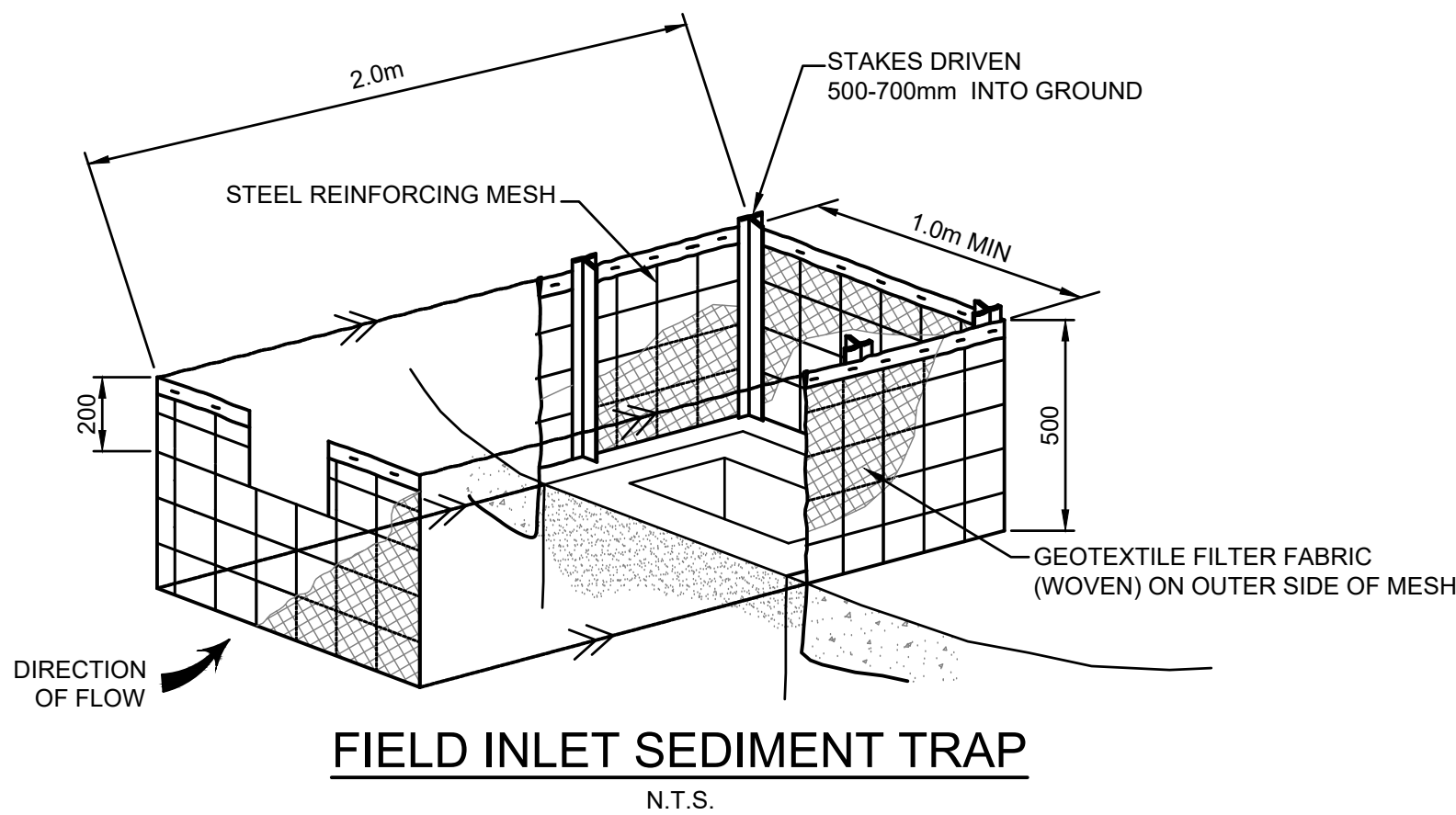
Drawing Title ON-SITE DETENTION 2 DETAILS AND CALCULATIONS			
Scale As Shown	A1 Project No. 22500	Dwg. No. 108	Issue D

LEGEND

- ExW — EXISTING WATER MAIN
— ExS — EXISTING SEWER MAIN
— ExT — EXISTING TELSTRA
— ExE — EXISTING ELECTRICAL
— ExG — EXISTING GAS
— ExOP — EXISTING OPTIC FIBER
— 26.45 — EXISTING CONTOUR
X NS 26.45 — EXISTING SURFACE LEVEL
X EL: 47.00 — EARTHWORKS LEVEL
X RL 47.00 — DESIGN SURFACE LEVEL
— — SILT FENCE
— — STABILISED SITE ACCESS
— — 1.8 HIGH CONSTRUCTION BARRIER FENCING
— — TREES TO BE RETAINED
— — TREES TO BE REMOVED
— — INLET PROTECTION

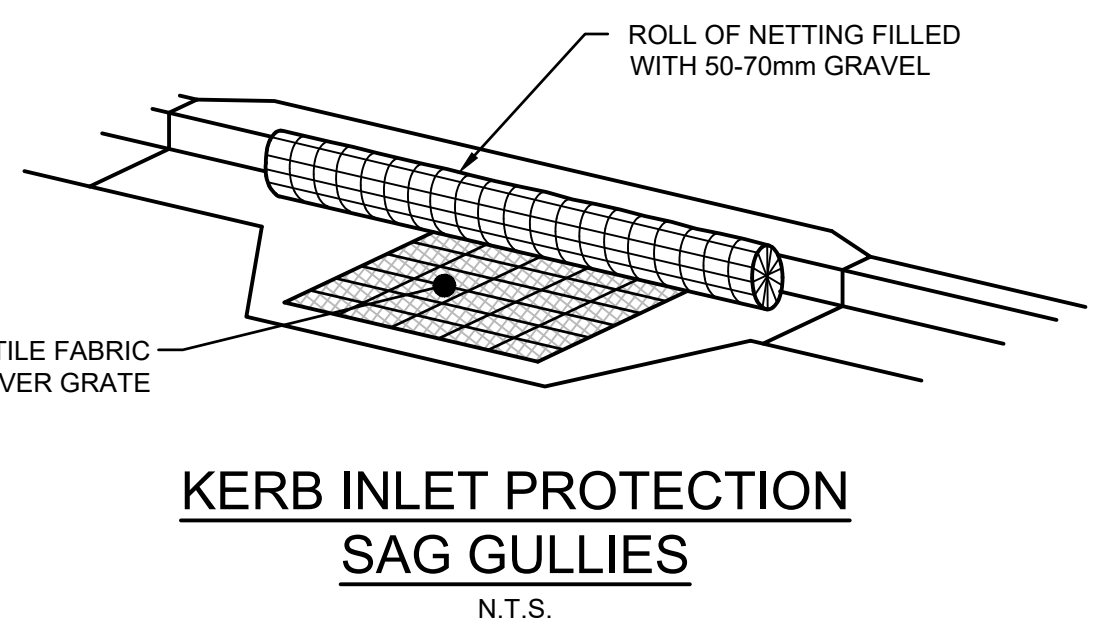
SEDIMENT & EROSION NOTES

1. IMMEDIATELY FOLLOWING SETTING OUT OF THE WORKS, BUT PRIOR TO COMMENCEMENT OF ANY CLEARING OR EARTHWORKS, THE CONTRACTOR AND SUPERINTENDENT SHALL WALK THE SITE TO NOMINATE THE LOCATIONS AND TYPES OF SEDIMENT AND EROSION CONTROL MEASURES TO BE ADOPTED. THESE MEASURES SHALL BE IMPLEMENTED PRIOR TO ANY CLEARING OR EARTHWORKS AND MAINTAINED UNTIL THE WORKS ARE COMPLETED AND NO LONGER POSE AN EROSION HAZARD, UNLESS OTHERWISE APPROVED BY THE SUPERINTENDENT.
2. IMMEDIATELY FOLLOWING SETTING OUT OF THE WORKS, BUT PRIOR TO COMMENCEMENT OF ANY CLEARING OR EARTHWORKS, THE CONTRACTOR AND SUPERINTENDENT SHALL WALK THE SITE TO IDENTIFY AND MARK TREES WHICH ARE TO BE PRESERVED. NOTWITHSTANDING THE ABOVE, THE CONTRACTOR SHALL TAKE ALL REASONABLE PRECAUTIONS TO MINIMISE DISTURBANCE TO EXISTING VEGETATION AND GROUND COVER OUTSIDE THE MINIMUM AREAS REQUIRED TO COMPLETE THE WORKS AND SHALL BE RESPONSIBLE FOR RECTIFICATION, AT ITS OWN COST, OF ANY DISTURBANCE BEYOND THOSE AREAS.
3. PROVIDE GULLY GRATE INLET SEDIMENT TRAPS AT ALL GULLY PITS.
4. PROVIDE SILT FENCING ALONG PROPERTY LINE AS DIRECTED BY SUPERINTENDENT.
5. ADDITIONAL CONTROL DEVICES TO BE PLACED WHERE DIRECTED BY THE PRINCIPLE.
6. ALTERNATIVE DESIGNS TO BE APPROVED BY SUPERINTENDENT PRIOR TO CONSTRUCTION.
7. WASH DOWN/RUMBLE AREA TO BE CONSTRUCTED WITH PROVISIONS RESTRICTING ALL SILT AND TRAFFICKED DEBRIS FROM ENTERING THE STORMWATER SYSTEM.
8. NO WORK OR STOCKPILING OF MATERIALS TO BE PLACED OUTSIDE OF SITE WORK BOUNDARY.
9. APPROPRIATE EROSION AND SEDIMENT CONTROLS TO BE USED TO PROTECT STOCKPILES AND MAINTAINED THROUGH OUT CONSTRUCTION.
10. IT IS THE CONTRACTORS RESPONSIBILITY TO TAKE DUE CARE OF NATURAL VEGETATION. NO CLEARING IS TO BE UNDERTAKEN WITHOUT PRIOR APPROVAL FROM THE SUPERINTENDENT.
11. TO AVOID DISTURBANCE TO EXISTING TREES, EARTHWORKS WILL BE MODIFIED AS DIRECTED ON-SITE BY THE SUPERINTENDENT.
12. THE LOCATION OF EROSION AND SEDIMENTATION CONTROLS WILL BE DETERMINED ON SITE BY THE SUPERINTENDENT.
13. ACCESS TRACKS THROUGH THE SITE WILL BE LIMITED TO THOSE DETERMINED BY THE SUPERINTENDENT AND THE CONTRACTOR PRIOR TO ANY WORK COMMENCING.
14. ALL SETTING OUT IS THE RESPONSIBILITY OF THE CONTRACTOR PRIOR TO WORKS COMMENCING ON SITE. THE SUPERINTENDENT'S SURVEYOR SHALL PEG ALL ALLOTMENT BOUNDARIES, PROVIDE COORDINATE INFORMATION TO THESE PEGS AND PLACE BENCH MARKS. THE CONTRACTOR SHALL SET OUT THE WORKS FROM AND MAINTAIN THESE PEGS.



SILT FENCE NOTES:

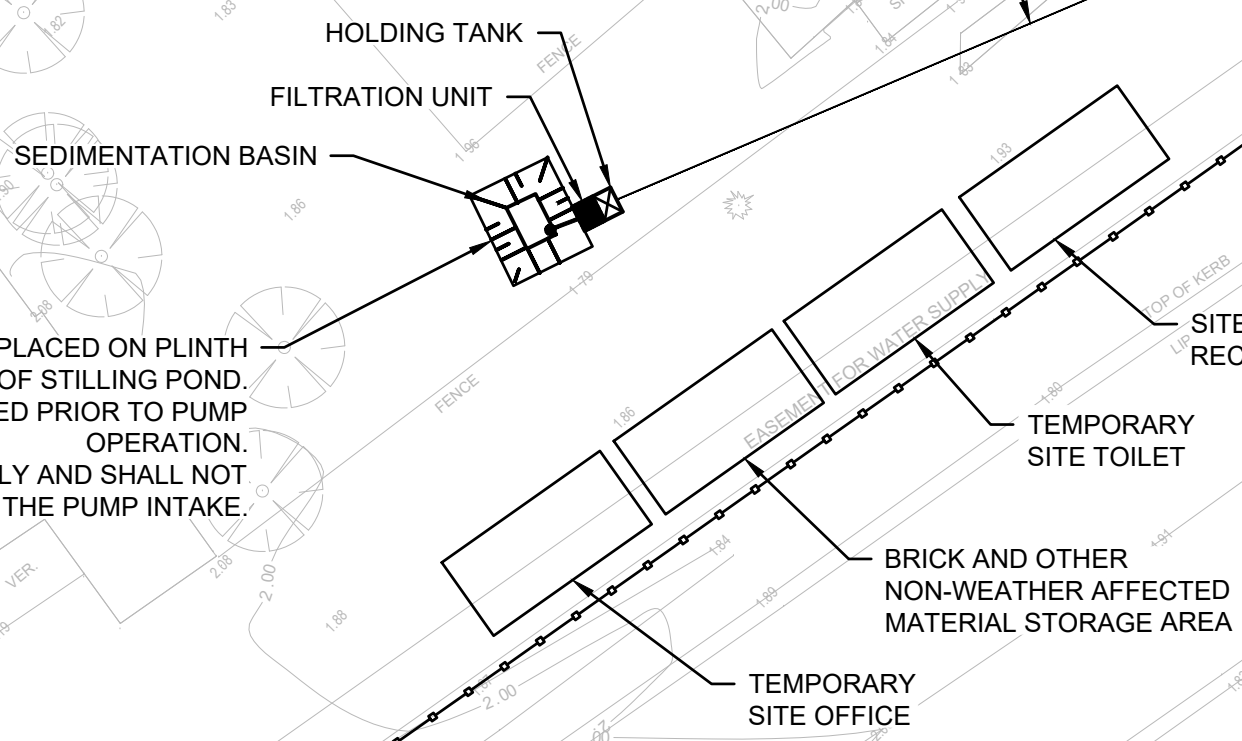
1. FILTER CLOTH TO BE FASTENED SECURELY TO POSTS WITH GALVANISED WIRE TIES, STAPLES OR ATTACHMENT BELTS.
2. POSTS SHOULD NOT BE SPACED MORE THAN 3.0m APART.
3. WHEN TWO SECTIONS OF FILTER CLOTH ADJOIN EACH OTHER THEY SHALL BE OVERLAPPED BY 150mm AND FOLDED.
4. FOR EXTRA STRENGTH TO SILT FENCE, WOVEN WIRE (14mm GAUGE, 150mm MESH SPACING) TO BE FASTENED SECURELY BETWEEN FILTER CLOTH AND POSTS BY WIRE TIES OR STAPLES.
5. INSPECTIONS SHALL BE PROVIDED ON A REGULAR BASIS, ESPECIALLY AFTER RAINFALL AND EXCESSIVE SILT DEPOSITS REMOVED WHEN "BULGES" DEVELOP IN SILT FENCE.
6. SEDIMENT FENCES SHALL BE CONSTRUCTED WITH SEDIMENT TRAPS AND EMERGENCY SPILLWAYS AT SPACINGS NO GREATER THAN 40m ON FLAT TERRAIN DECREASING TO 20m SPACINGS ON STEEP TERRAIN.



SEDIMENT & EROSION CONTROL PLAN

SCALE 1:250

MANUALLY ACTIVATED SUBMERSIBLE PUMP TO BE PLACED ON PLINTH AT MIN 600mm FROM INVERT OF STILLING POND. CONTRACTOR IS TO ENSURE SEDIMENT HAS SETTLED PRIOR TO PUMP OPERATION. SEDIMENT MATERIAL IS TO BE CLEARED REGULARLY AND SHALL NOT AT ANY TIME REACH THE LEVEL OF THE PUMP INTAKE.



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Scale
0 2 4 6 8 10 12 m
SCALE 1:250 @ A1

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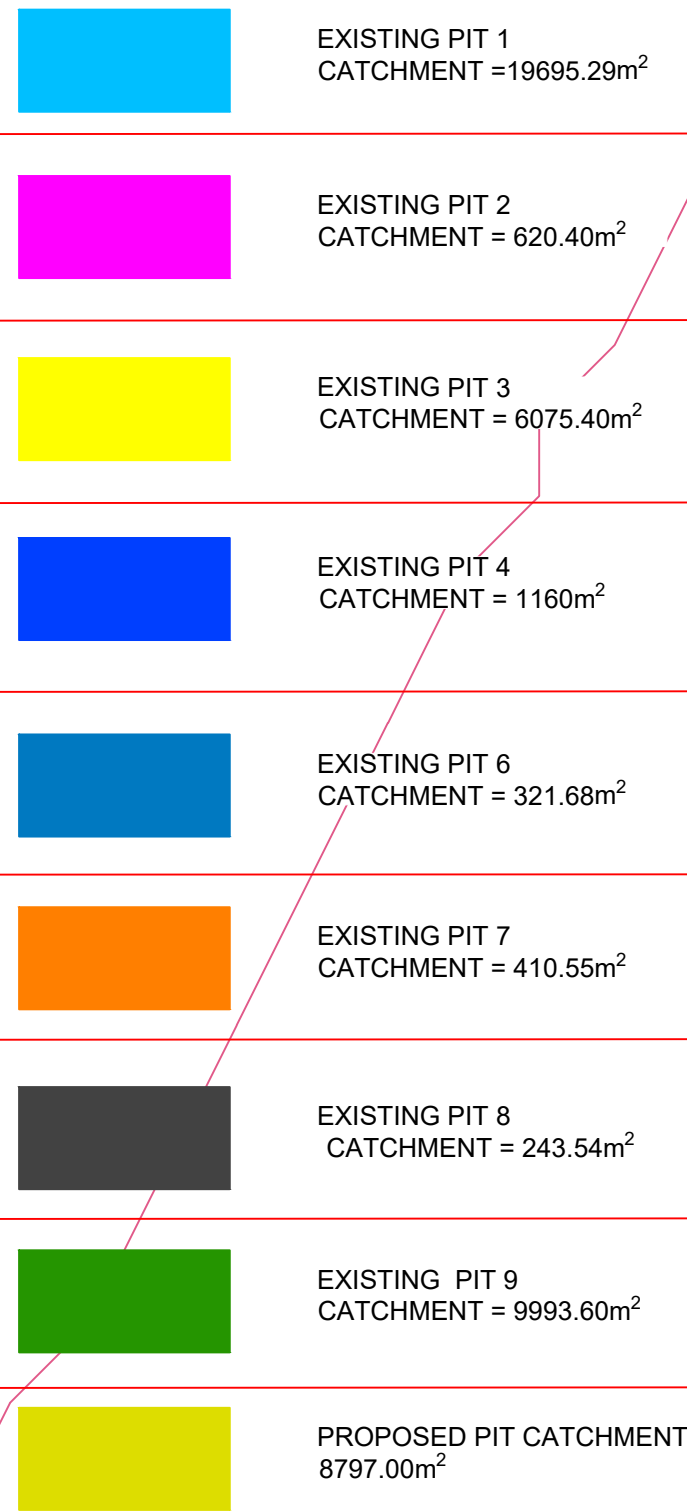
Project
**20 HERADALE PARADE, BATEMANS BAY
PROPOSED RESIDENTIAL DEVELOPMENT
STORMWATER CONCEPT PLANS
DEVELOPMENT APPLICATION**

Drawing Title
**SEDIMENT & EROSION
CONTROL PLAN
& DETAILS**
Scale A1 Project No. 22500 Dwg. No. 109 Issue B

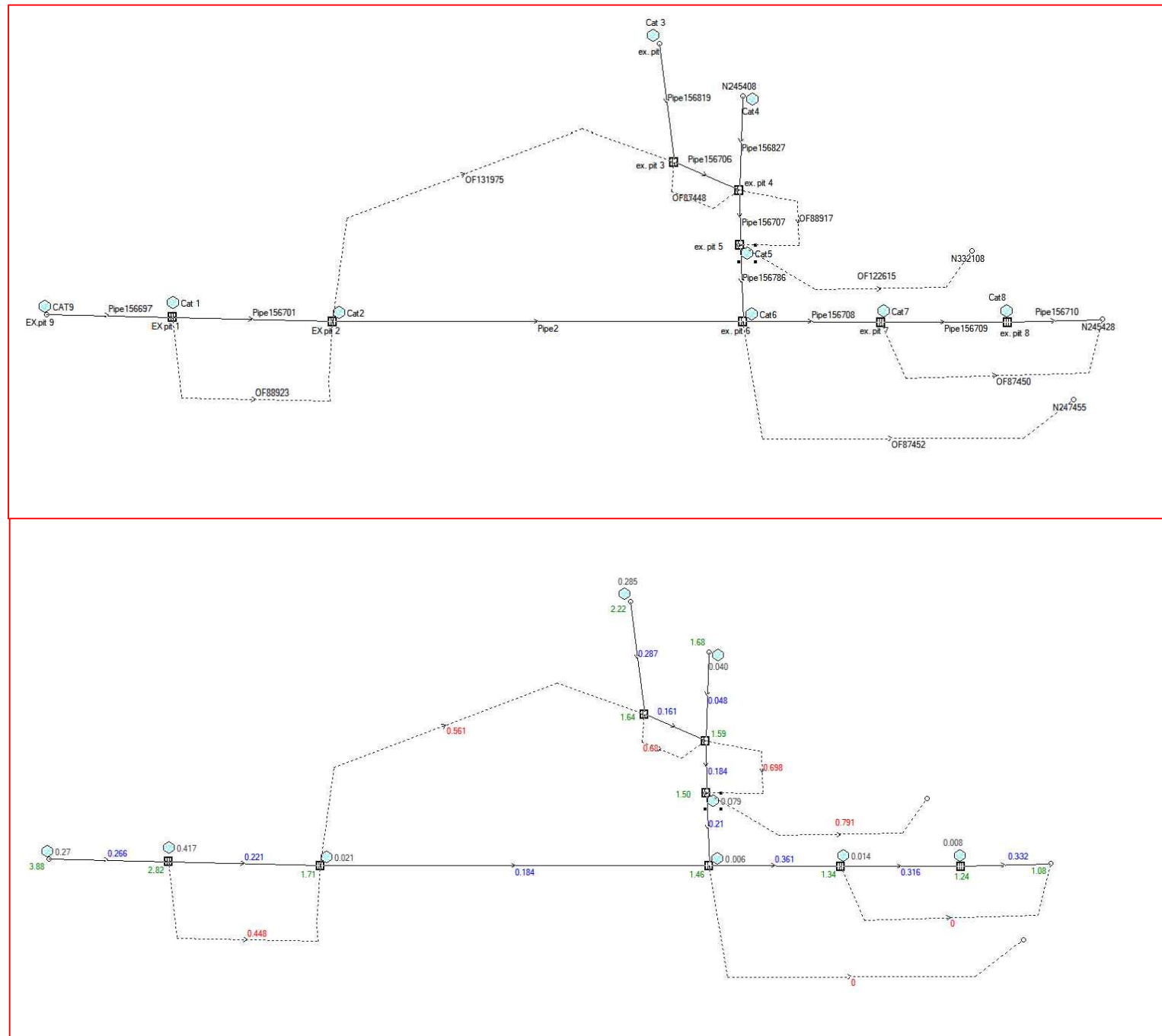
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POST CATCHMENT LEGEND

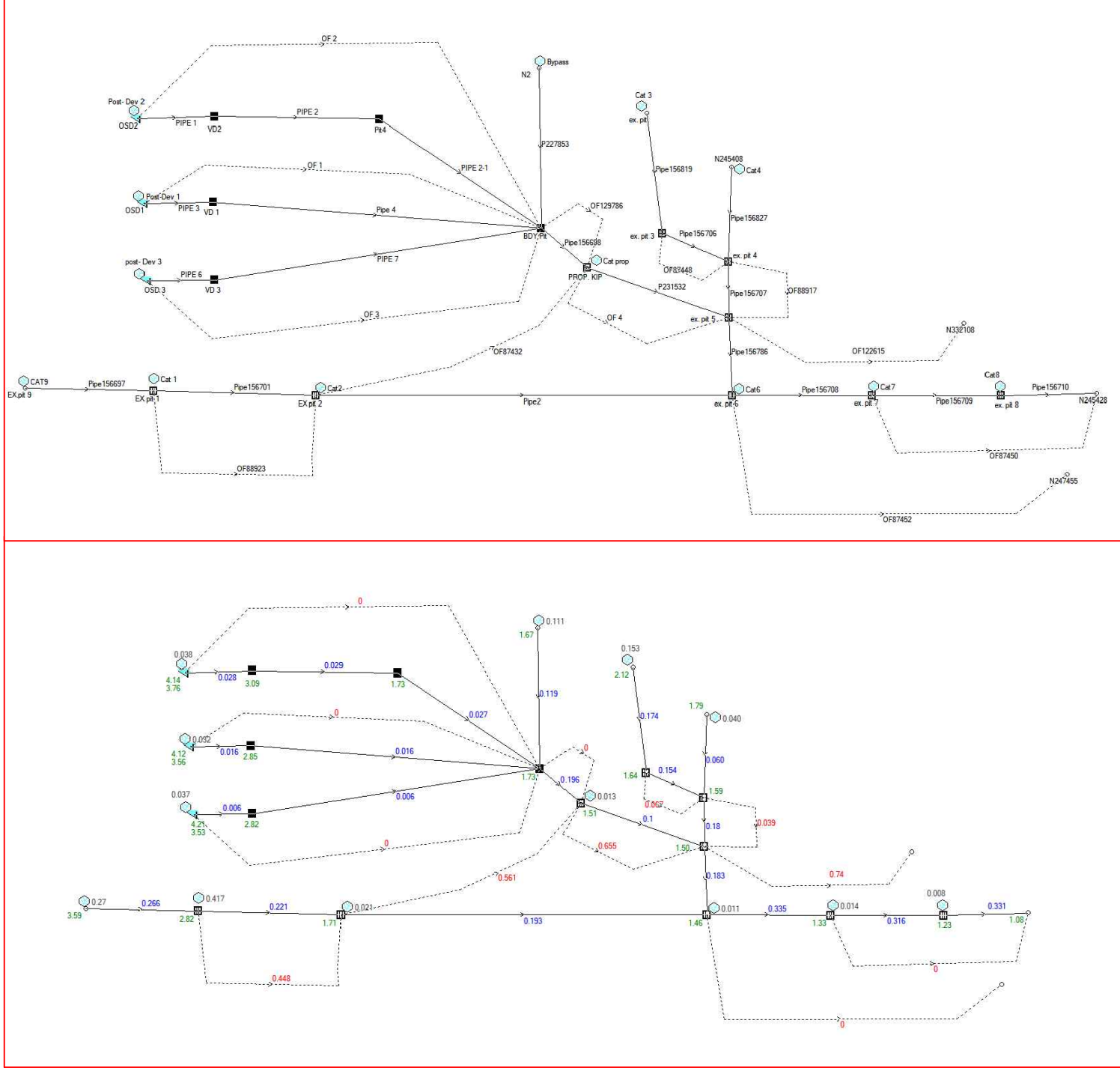


PRE CATCHMENT LEGEND



PRE MODEL
N.T.S.

PRE RESULTS (5 YR)
N.T.S.



POST MODEL
N.T.S.

POST RESULTS (5 YR)
N.T.S.

NOT FOR CONSTRUCTION

B	ISSUE FOR COUNCIL COMMENTS	03/09/2024	YKK	SBF
A	ISSUE FOR COUNCIL COMMENTS	30/08/2024	YKK	SBF
Issue	Description	Date	Design	Checked

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Scale
0 20 40 60 m
SCALE 1:1000 @ A1

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Project
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DEVELOPMENT APPLICATION**

Drawing Title	CATCHMENT PLAN EXISTING/PROPOSED SYSTEM			
Scale	A1	Project No.	Dwg. No.	Issue
1:1000		22500	111	B