

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
o VD Ø100mm VERTICAL DROP
--> SURFACE FLOW
DIRECTION
--- SS --- SS --- Ø100mm SUBSOIL DRAINAGE
TO BE WRAPPED IN
GEOTEXTILE BIDIMA34
@MIN 1.0% SLOPE
o IO CLEANING EYE
(OR INSPECTION EYE)
x RL 27.55 INSPECTION OPENING
FINISHED SURFACE LEVEL
GRATED DRAIN
FG 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

Issue	Description	Date	Design	Checked
B	ISSUE FOR SECTION 4.55	23/10/2025	YKK	SBF
A	ISSUE FOR SECTION 4.55	17/10/2025	YKK	SBF

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

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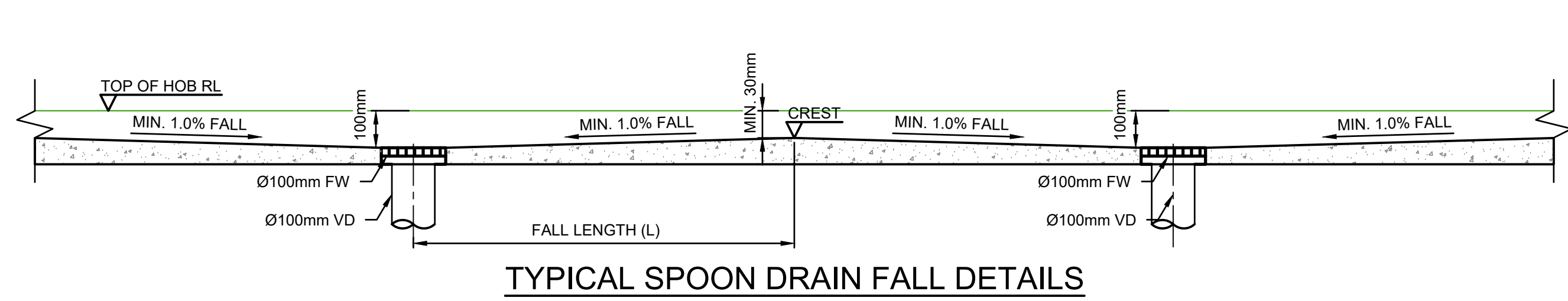
Email: info@telfordcivil.com.au
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Company: Telford Consulting Pty Ltd

Project
**20 HERADALE PARADE , BATEMANS BAY
PROPOSED RESIDENTIAL DEVELOPMENT
STORMWATER CONCEPT PLANS
SECTION 4.55**

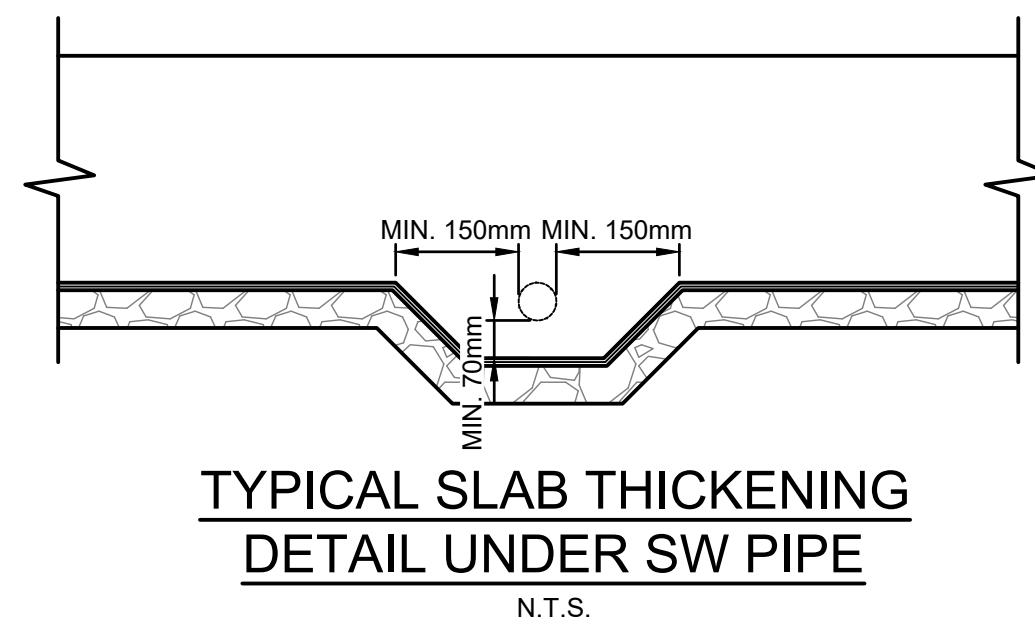
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**STORMWATER CONCEPT PLAN
BASEMENT B1
SHEET 1 OF 3**

Scale A1 Project No. 22500 Dwg. No. 101 Issue B

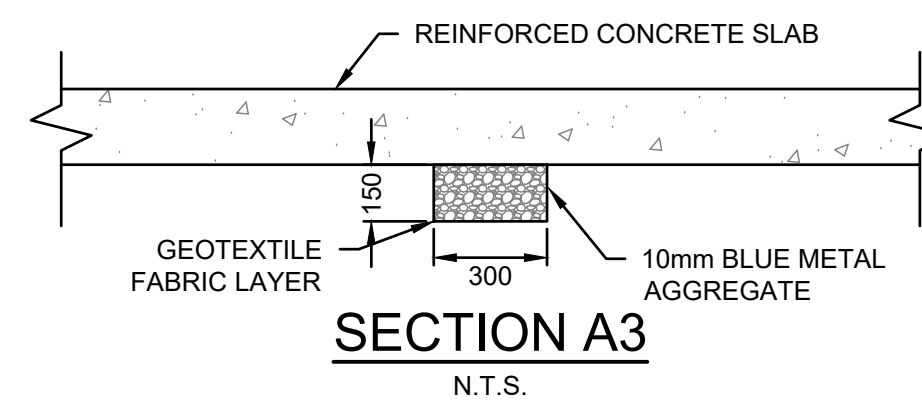
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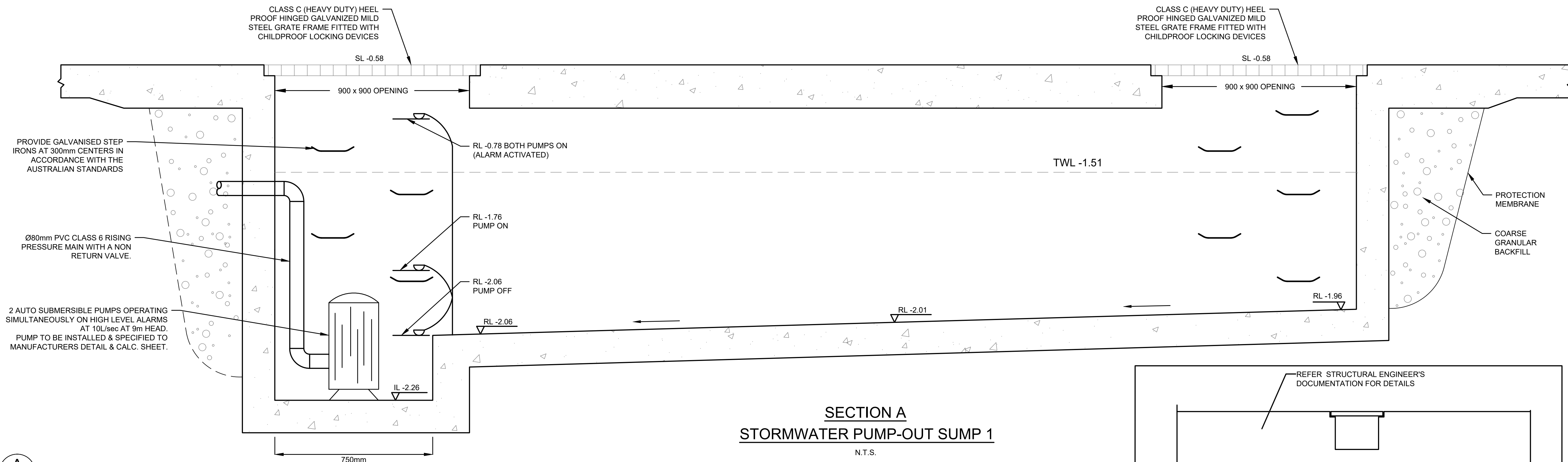
TYPICAL SPOON DRAIN FALL DETAILS



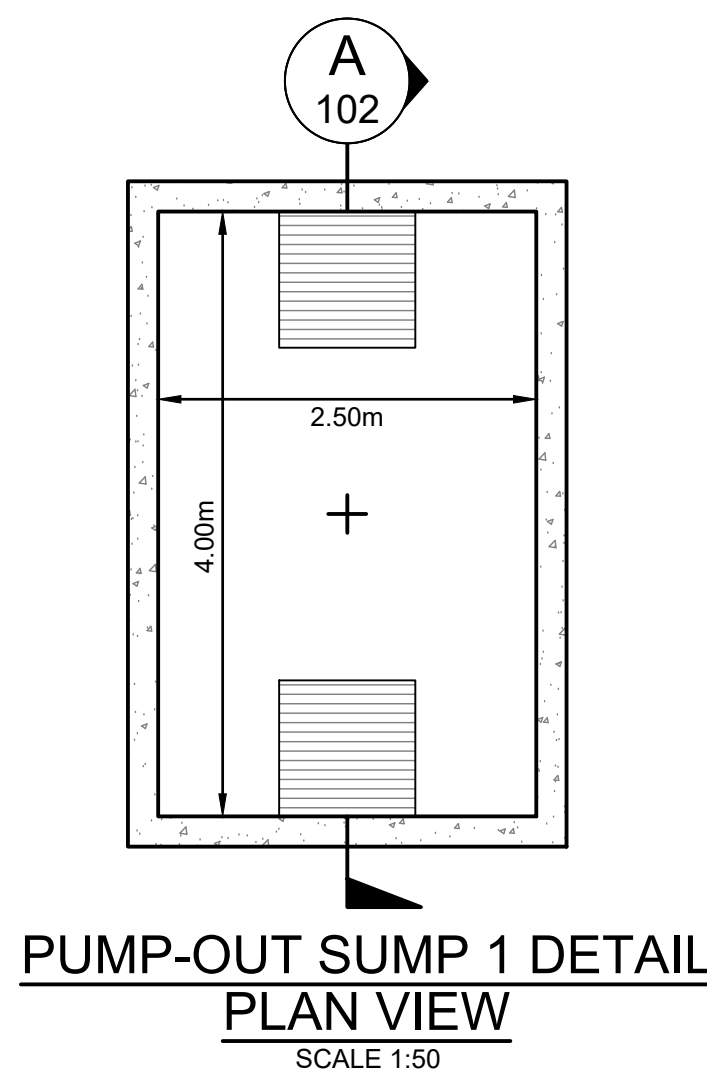
TYPICAL SLAB THICKENING
DETAIL UNDER SW PIPE



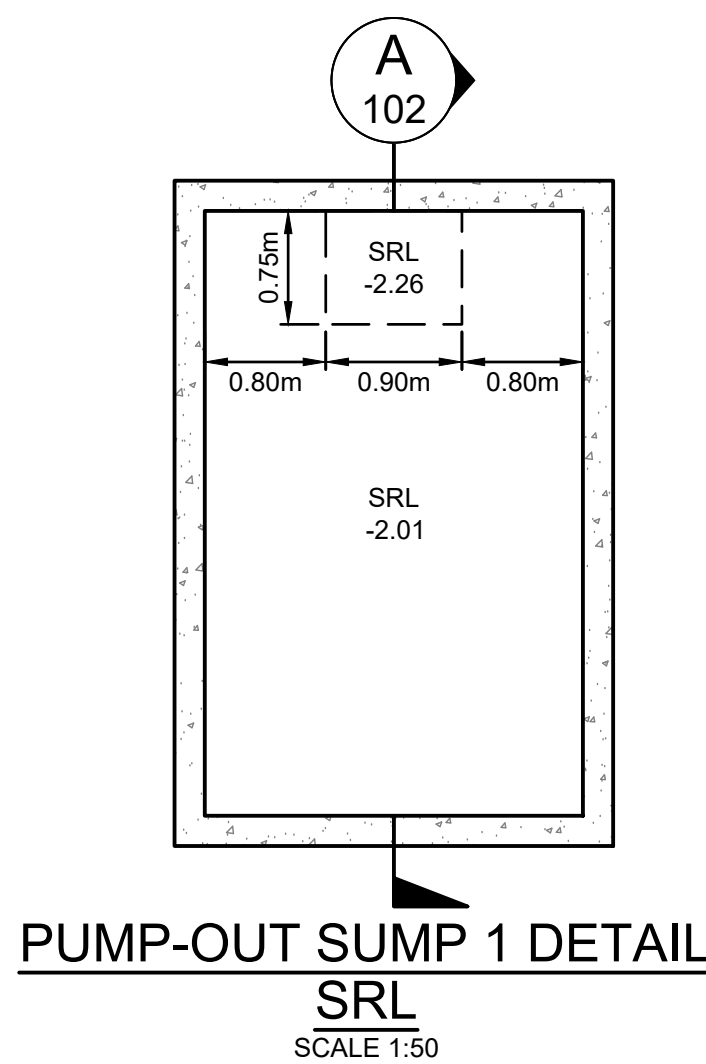
SECTION A3
N.T.S.



SECTION A
STORMWATER PUMP-OUT SUMP 1
N.T.S.



PUMP-OUT SUMP 1 DETAIL
PLAN VIEW
SCALE 1:50



PUMP-OUT SUMP 1 DETAIL
SRL
SCALE 1:50

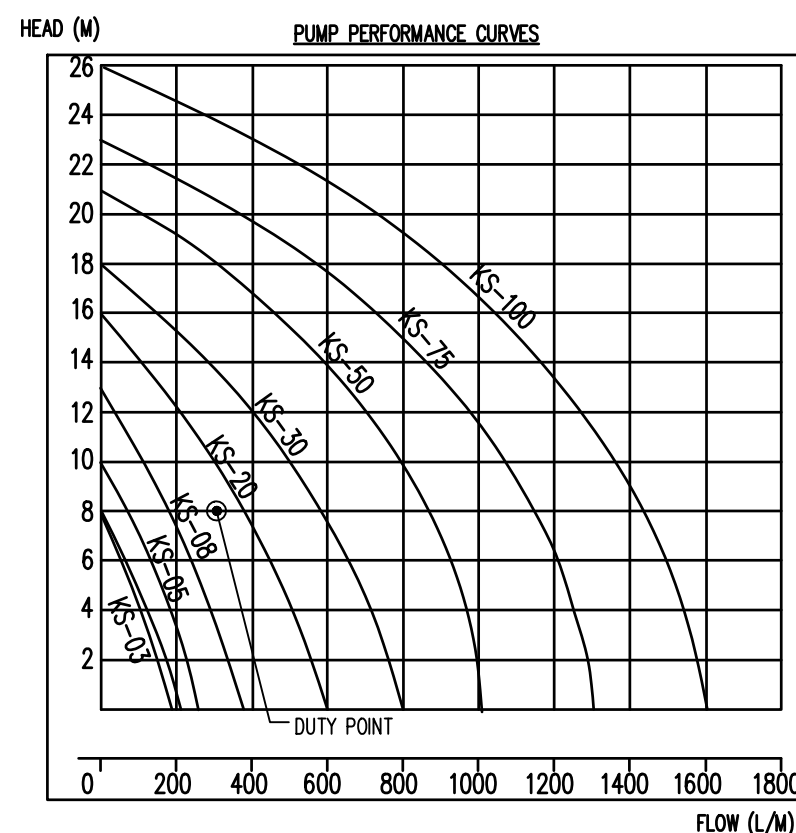
PUMP STORAGE VOLUME CALCULATION

AREA DRAINING TO SUMP=0.00m²

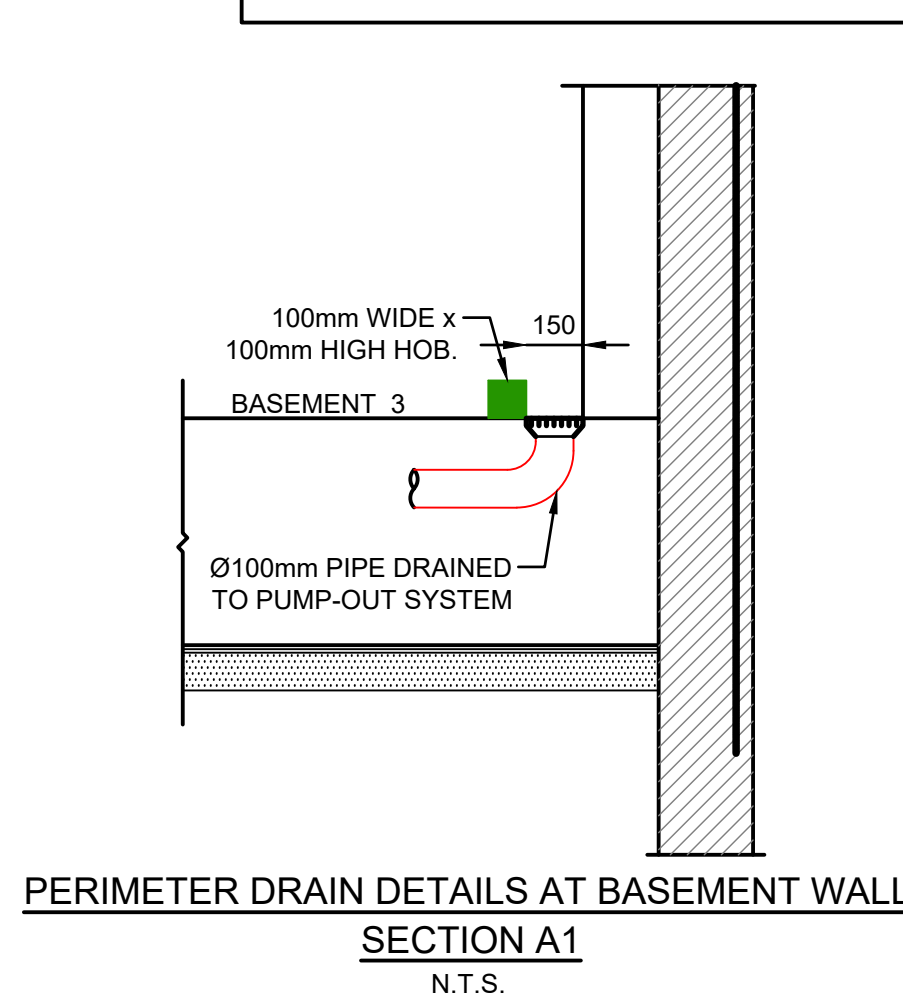
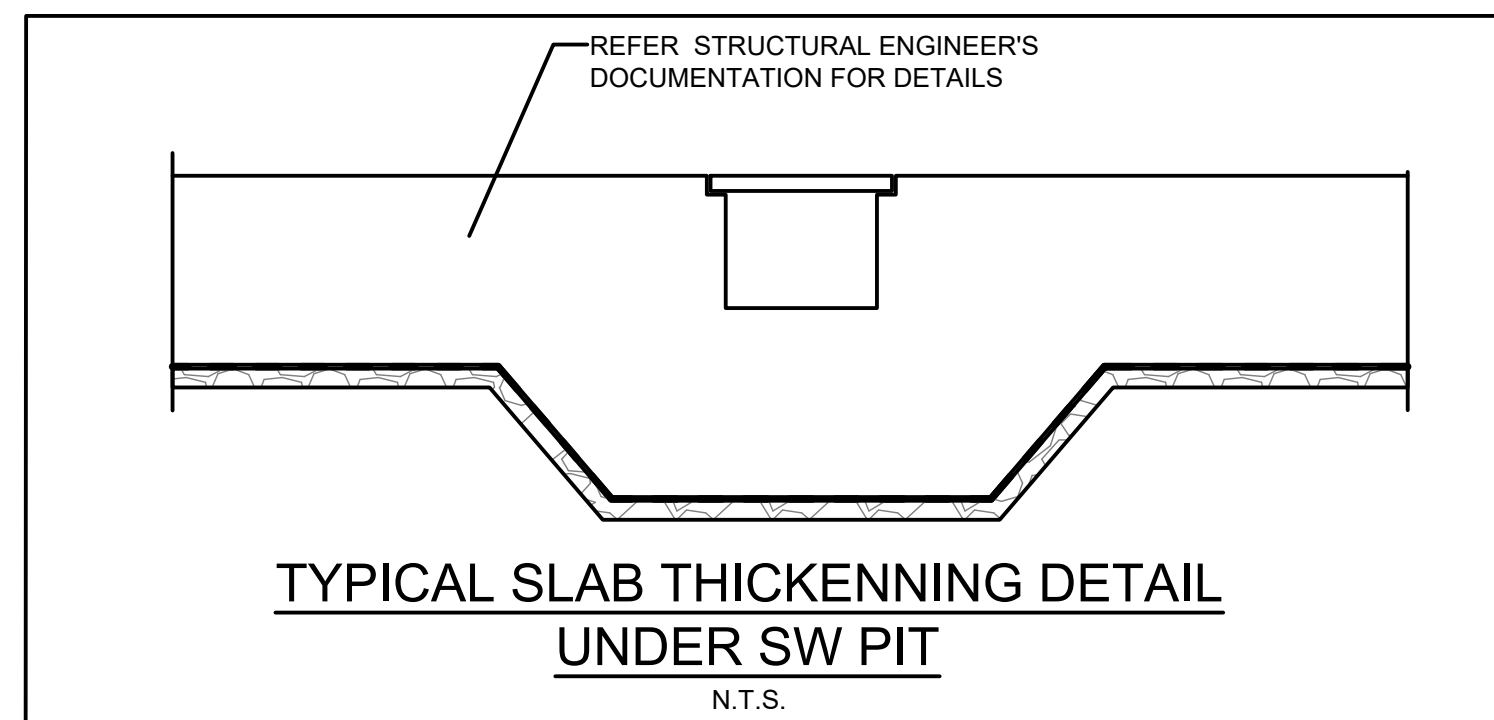
SUMP SIZE BASED ON 100 YEAR 2 HR STORM, I= 67.80 mm/hr,
Q=CIA/3600= 1 x 67.80 x 0.00/3600 = 0.00L/sec
VOLUME REQUIRED = 0.00x(2x60x60) =0L = 0.00m³
STORAGE PROVIDED 4.0x2.5x0.50= 5.00m³

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 x 279 x 0.00/3600 = 0.00 L/sec

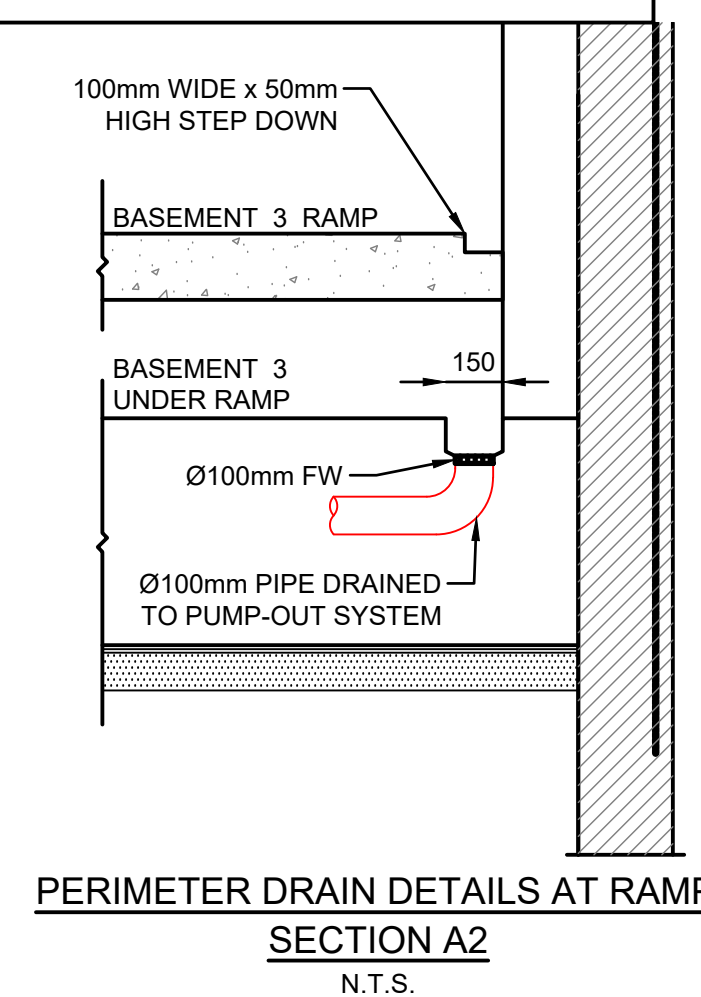
DUAL KS-20 PUMP OR EQUIVALENT TO BE INSTALLED IN SUMP AND CONNECTED TO CONTROL PANEL WHICH WILL ALLOW FOR THE PUMP TO OPERATE SIMULTANEOUSLY ON HIGH LEVEL WITH ALARM AT 10 L/sec AT 9m HEAD



Type	Output		Outlet		Rated		Maximum		Weigh	Dimension		
	HP	kW	mm	Inch	Head Capacity	Head Capacity	Head	Capacity		L(mm)	W(mm)	H(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



PERIMETER DRAIN DETAILS AT BASEMENT WALL
SECTION A1
N.T.S.



PERIMETER DRAIN DETAILS AT RAMP
SECTION A2
N.T.S.

NOT FOR CONSTRUCTION

Issue	Description	Date	Design	Checked
A	ISSUE FOR SECTION 4.55	17/10/2025	YKK	SBF

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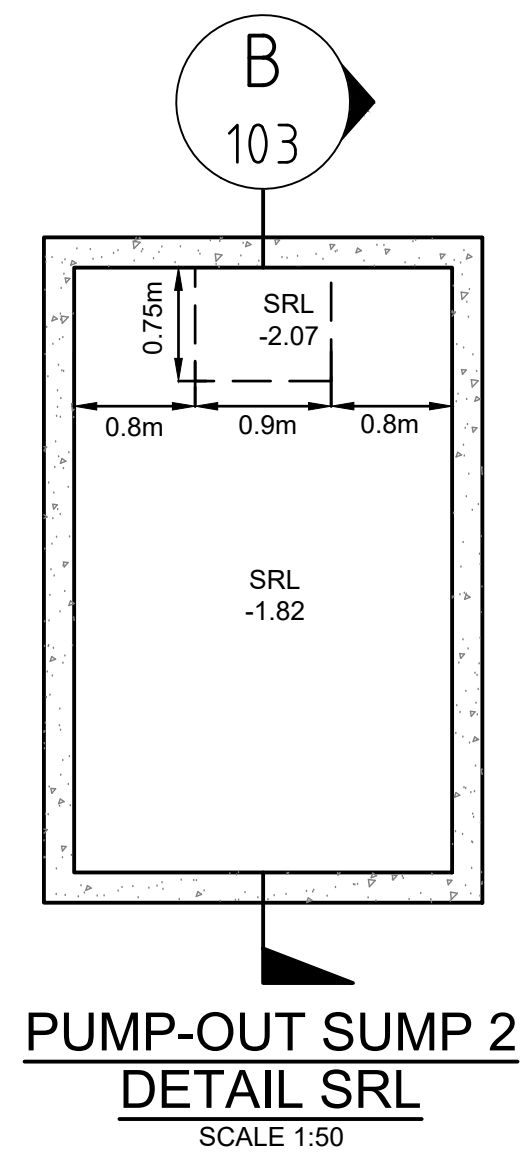
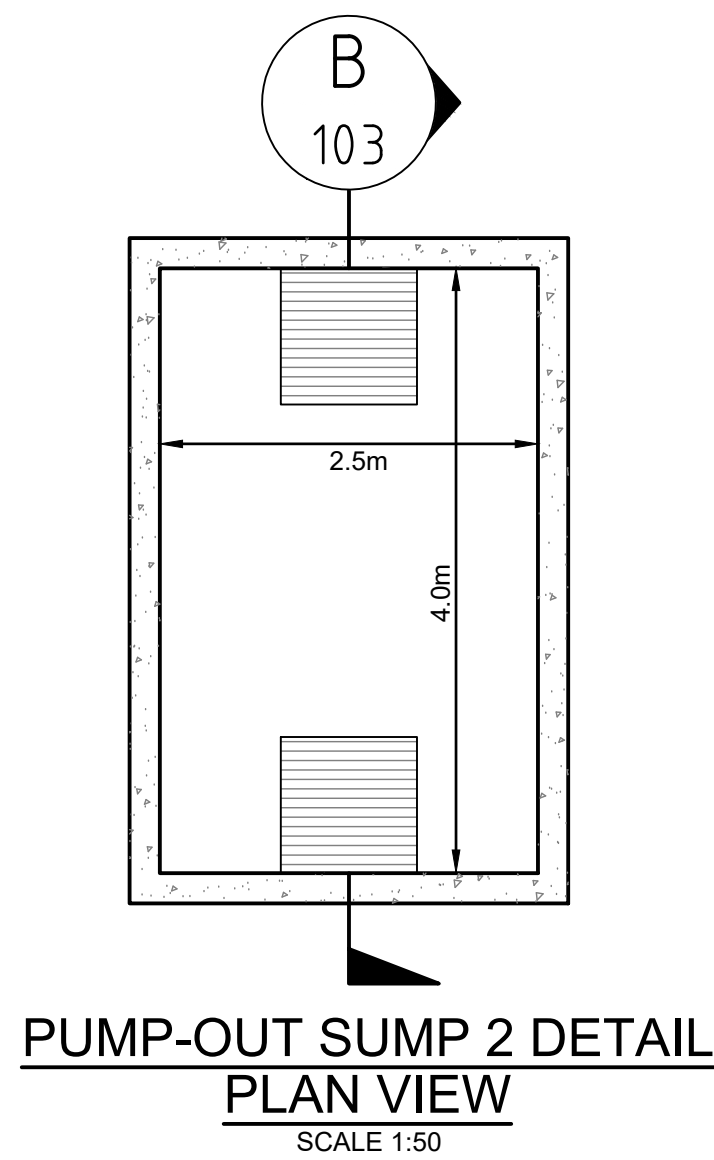
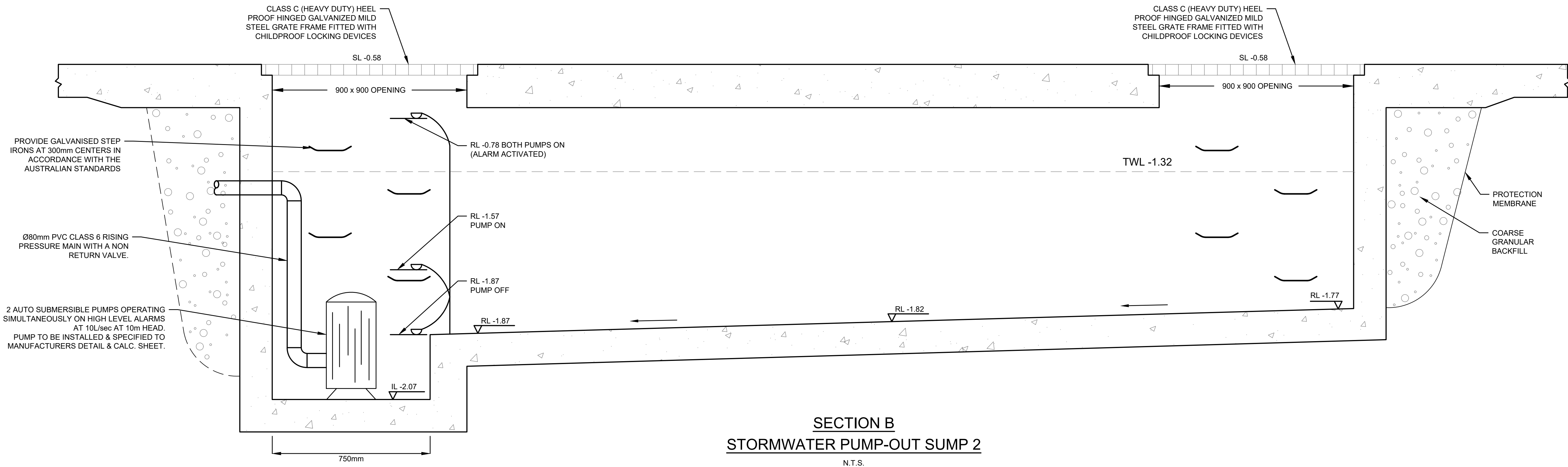
Council
Eurobodalla Shire Council

Scale
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
SECTION 4.55**

Drawing Title
**STORMWATER CONCEPT PLAN
BASEMENT B1
SHEET 2 OF 3**
Scale A1 Project No. 22500 Dwg. No. 102 Issue A



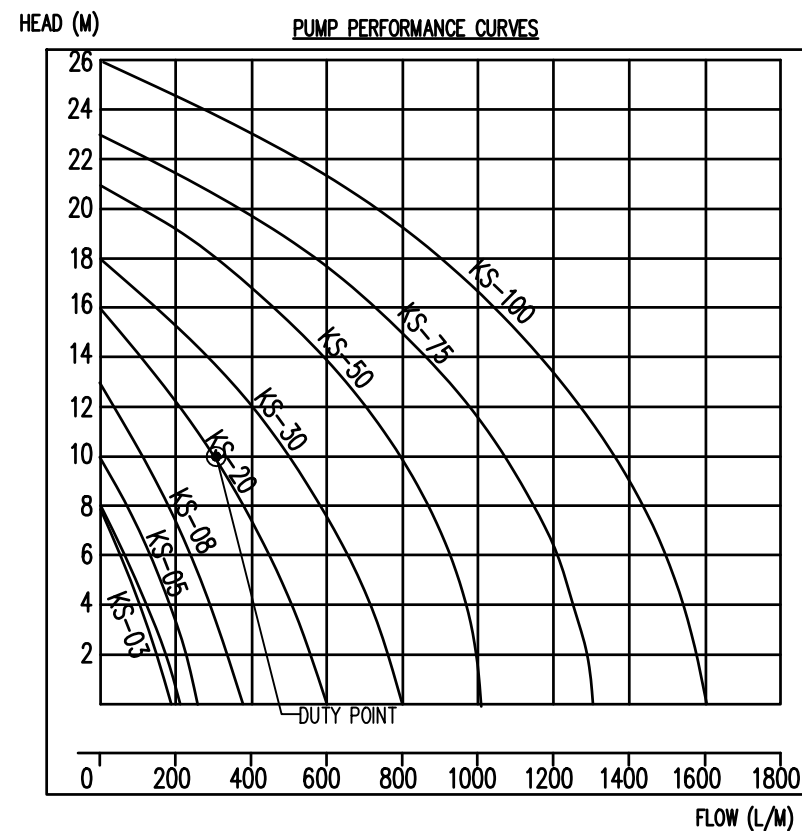
PUMP STORAGE VOLUME CALCULATION

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 Head Capacity		Weigh Kg	Dimension		
	HP	kW	mm	Inch	M	LPM	M	LPM		L(mm)	W(mm)	H(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
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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

A	ISSUE FOR SECTION 4.55			17/10/2025	YKK SBF
Issue	Description	Date	Design	Checked	
100mm 200mm					

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Council
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Scale
0 1 2 3 m
SCALE 1:50 @ A1

TELFORD**civil**
CONSULTING CIVIL & STORMWATER ENGINEERS

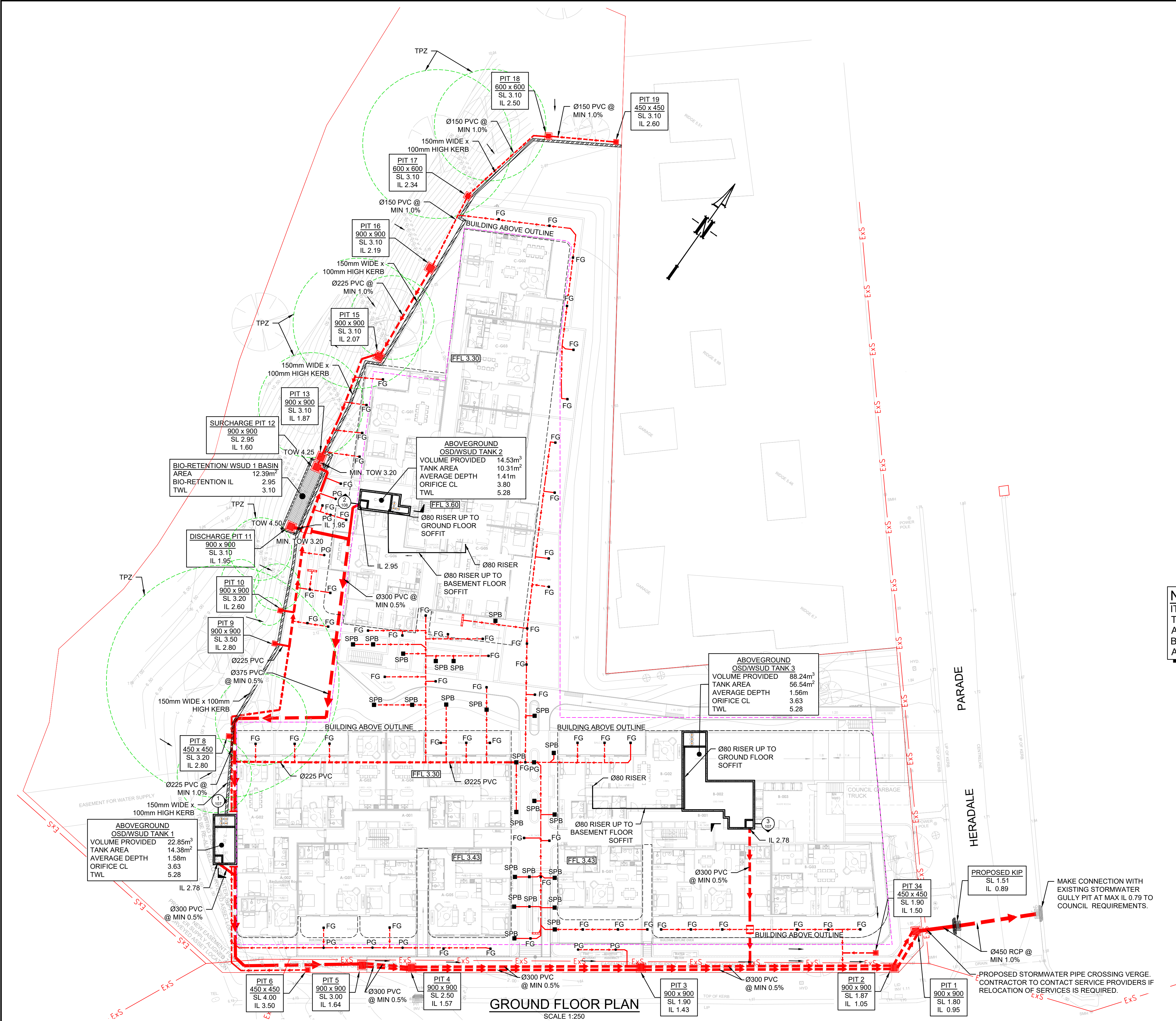
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Project
20 HERADALE PARADE , BATEMANS BAY
PROPOSED RESIDENTIAL DEVELOPMENT
STORMWATER CONCEPT PLANS
SECTION 4.55

Drawing Title
STORMWATER CONCEPT PLAN
BASEMENT B1
SHEET 3 OF 3

Scale A1 Project No. 22500 Dwg. No. 102 Issue A



GENERAL NOTES

- ALL LINES ARE TO BE Ø90 uPVC 1.0% GRADE UNLESS NOTED OTHERWISE. CHARGED LINES TO BE SEWERGRADE & SEALED.
- EXISTING SERVICES LOCATIONS SHOWN INDICATIVE ONLY. IT IS THE CONTRACTOR'S RESPONSIBILITY TO LOCATE & LEVEL ALL EXISTING SERVICES PRIOR TO THE COMMENCEMENT OF ANY EARTHWORKS.
- ALL PIPES TO HAVE MIN 150mm COVER IF LOCATED WITHIN PROPERTY.
- ALL PITS IN DRIVEWAYS TO BE 450x450 CONCRETE AND ALL PITS IN LANDSCAPED AREAS TO BE 450x450 PLASTIC.
- PITS LESS THAN 600mm DEEP MAY BE BRICK, PRECAST OR CONCRETE.
- ALL BALCONIES AND ROOFS TO BE DRAINED AND TO HAVE SAFETY OVERFLOWS IN ACCORDANCE WITH RELEVANT AUSTRALIAN STANDARDS.
- ALL EXTERNAL SLABS TO BE WATERPROOFED.
- ALL GRATES TO HAVE CHILD PROOF LOCKS.
- ALL DRAINAGE WORKS TO AVOID TREE ROOTS.
- ALL DPs TO HAVE LEAF GUARDS.
- ALL EXISTING LEVELS TO BE CONFIRMED BY BUILDER PRIOR TO CONSTRUCTION.
- ALL WORK WITHIN COUNCIL RESERVE TO BE INSPECTED BY COUNCIL PRIOR TO CONSTRUCTION.
- COUNCIL'S ISSUED FOOTWAY DESIGN LEVELS TO BE INCORPORATED INTO THE FINISHED LEVELS ONCE ISSUED BY COUNCIL.
- ALL WORK SHALL BE IN ACCORDANCE WITH B.C.A. AND A.S.3500.3.
- REFER TO LANDSCAPE ARCHITECT'S DRAWINGS FOR LANDSCAPING.
- CARE TO BE TAKEN AROUND EXISTING SEWER. STRUCTURAL ADVICE IS REQUIRED FOR SEWER PROTECTION AGAINST ADDITIONAL LOADING FROM NEW PITS, PIPES, RETAINING WALLS AND OSD BASIN WATER LEVELS.
- ALL PIPES IN BALCONIES TO BE Ø65 uPVC CAST IN CONCRETE SLAB. CONTRACTOR TO PROVIDE A BREAK / OPEN VOID IN RAIL / BALUSTRADE FOR STORMWATER EMERGENCY OVERFLOW. ALL ENCLOSED AREAS/PLANTER BOXES TO BE FITTED WITH FLOOR WASTES & DRAINED TO OSD DOWNPIPES TO BE CHECKED BY ARCHITECT & PLUMBER PRIOR TO CONSTRUCTION.
- THE OSD BASIN / TANK IS TO BE BUILT TO THE CORRECT LEVELS & SIZE AS PER THIS DESIGN. ANY VARIATIONS ARE TO BE DONE UNDER CONSULTATION FROM OUR OFFICE ONLY. ANY AMENDMENTS WITHOUT OUR APPROVAL WOULD RESULT IN ADDITIONAL FEES FOR REDESIGN AT OC STAGE OR IF A SOLUTION CANNOT BE FOUND, RECONSTRUCTION IS REQUIRED UNDER THE CONTRACTOR'S EXPENSES

LEGEND

- PROPOSED STORMWATER DRAINAGE PIPE
- PROPOSED STORMWATER DRAINING TO OSD
- PROPOSED STORMWATER BYPASSING OSD
- Ø100 HDPE OR PVC STORMWATER DRAINAGE PIPE CAST IN SLAB
- Ø65 HDPE OR PVC STORMWATER DRAINAGE PIPE CAST IN SLAB
- Ø50 HDPE OR PVC STORMWATER DRAINAGE PIPE CAST IN SLAB
- DOWNPIPE Ø100
- VERTICAL DROP Ø100
- VERTICAL DROP FROM SLAB
- 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
- INVERT LEVEL
- DESIGN SURFACE LEVEL
- EXISTING SURFACE LEVEL
- EXISTING STORMWATER DRAINAGE
- EXISTING WATER MAIN
- EXISTING SEWER MAIN
- EXISTING TELESTRA
- EXISTING ELECTRICAL
- EXISTING ELECTRICAL UNDERGROUND
- EXISTING OVERHEAD ELECTRICAL
- EXISTING GAS
- EXISTING HOUSE DRAINAGE
- EXISTING OPTIC FIBER

NOTES:

REFER ARCHITECTURAL DRAWINGS FOR FINAL SET-OUT LEVELS.

ALL UPPER LEVELS DRAINAGE SYSTEM TO BE CONNECTED TO WSUD, SUBJECT TO DETAILED DESIGN STAGE.

ALL STORMWATER DRAINAGE PIPES ARE Ø100 PVC AT MIN 1.0% SLOPE U.N.O.

ALL REDUNDANT PIPELINES WITHIN FOOTPATH AREA MUST BE REMOVED AND FOOTPATH/KERB REINSTATED.

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

NOT FOR CONSTRUCTION

NOTE:

IT IS CONTRACTOR'S RESPONSIBILITY TO ENSURE MINIMUM PONDING IS ACHIEVED OVER THE FLOOR WASTES BY GRADING CATCHMENTS' SURFACES AT MINIMUM 1.0% FALL.

NOTE:

ALL LINEAR GRATED DRAINS TO BE MIN. 100mm DEEP U.N.O.

NOTE:

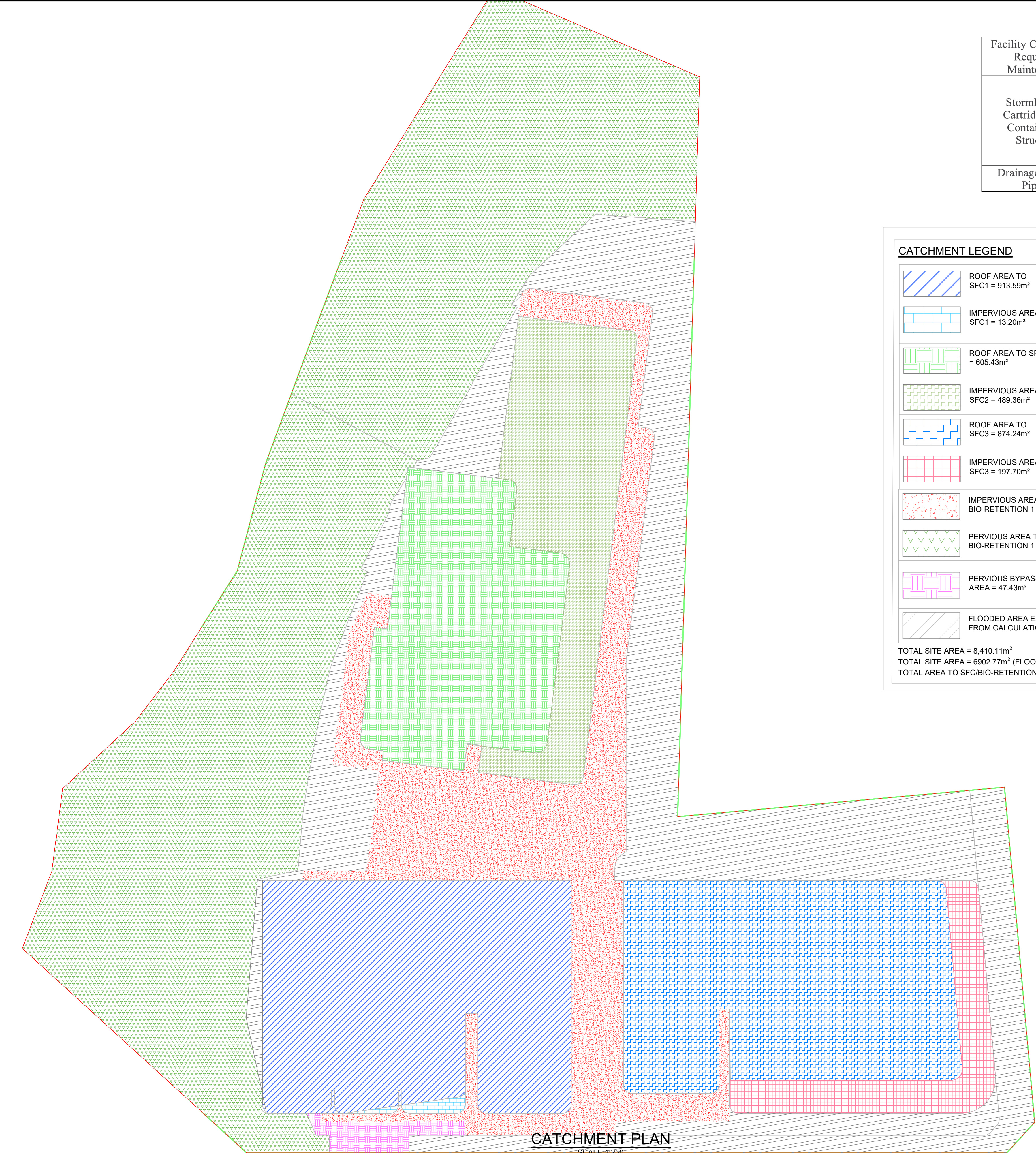
PITS DEEPER THAN 1.0m TO BE FITTED WITH STEP IRONS.

NOTE:

MAKE CONNECTION WITH EXISTING STORMWATER GULLY PIT AT MAX IL 0.79 TO COUNCIL REQUIREMENTS.

NOTE:

PROPOSED STORMWATER PIPE CROSSING VERGE. CONTRACTOR TO CONTACT SERVICE PROVIDERS IF RELOCATION OF SERVICES IS REQUIRED.



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.	-	-

FILTRATION UNIT MAINTENANCE SCHEDULE

CATCHMENT LEGEND

	ROOF AREA TO SFC1 = 913.59m²	TOTAL AREA TO SFC1 = 926.79m²
	IMPERVIOUS AREA TO SFC1 = 13.20m²	
	ROOF AREA TO SFC2 = 605.43m²	TOTAL AREA TO SFC2 = 1,094.79m²
	IMPERVIOUS AREA TO SFC2 = 489.36m²	
	ROOF AREA TO SFC3 = 874.24m²	TOTAL AREA TO SFC3 = 1,071.94m²
	IMPERVIOUS AREA TO SFC3 = 197.70m²	
	IMPERVIOUS AREA TO BIO-RETENTION 1 = 930.79m²	TOTAL AREA TO BIO-RETENTION 1 BYPASSING OSD/SFC = 3761.82m²
	PERVIOUS AREA TO BIO-RETENTION 1 = 2831.03m²	
	PERVIOUS BYPASS AREA = 47.43m²	TOTAL AREA BYPASSING OSD/SFC & BIO-RETENTION = 47.43m²
	FLOODED AREA EXCLUDED FROM CALCULATION = 1507.34m²	

TOTAL SITE AREA = 8,410.11m²
TOTAL SITE AREA = 6902.77m² (FLOODED AREA EXCLUDED)
TOTAL AREA TO SFC/BIO-RETENTION = 7010.47m² (FLOODED AREA EXCLUDED)

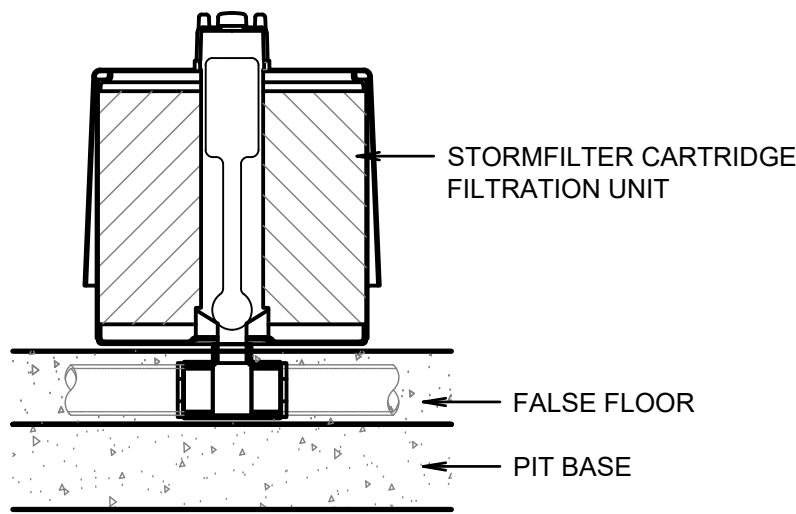
GENERAL NOTES:

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.

	Sources	Residual Load	% Reduction
Flow (ML/yr)	2.783	2.758	0.9028
Total Suspended Solids (kg/yr)	265.9	52.04	80.43
Total Phosphorus (kg/yr)	0.7193	0.2063	71.32
Total Nitrogen (kg/yr)	6.83	3.377	50.56
Gross Pollutants (kg/yr)	69.97	0	100

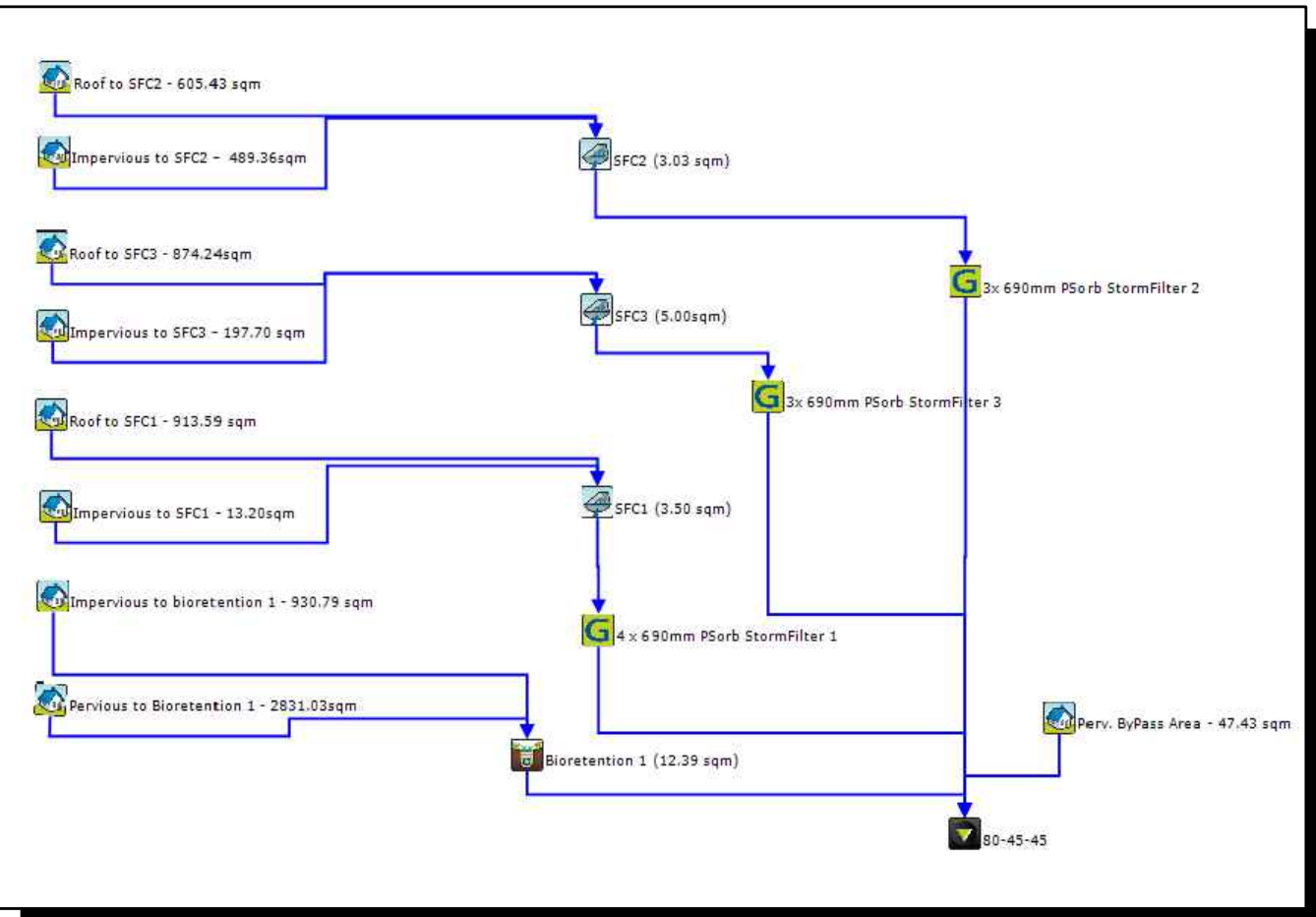
MUSIC RESULTS

N.T.S.



STORMFILTER CARTRIDGE DETAIL

N.T.S.



MUSIC MODEL

NOT FOR CONSTRUCTION

B	ISSUE FOR SECTION 4.55	17/10/2025	YKK	SBF
A	ISSUE FOR SECTION 4.55	01/05/2025	YKK	SBF
Issue	Description	Date	Design	Checked

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Scale
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SCALE 1:250 @ A1

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CONSULTING CIVIL & STORMWATER ENGINEERS

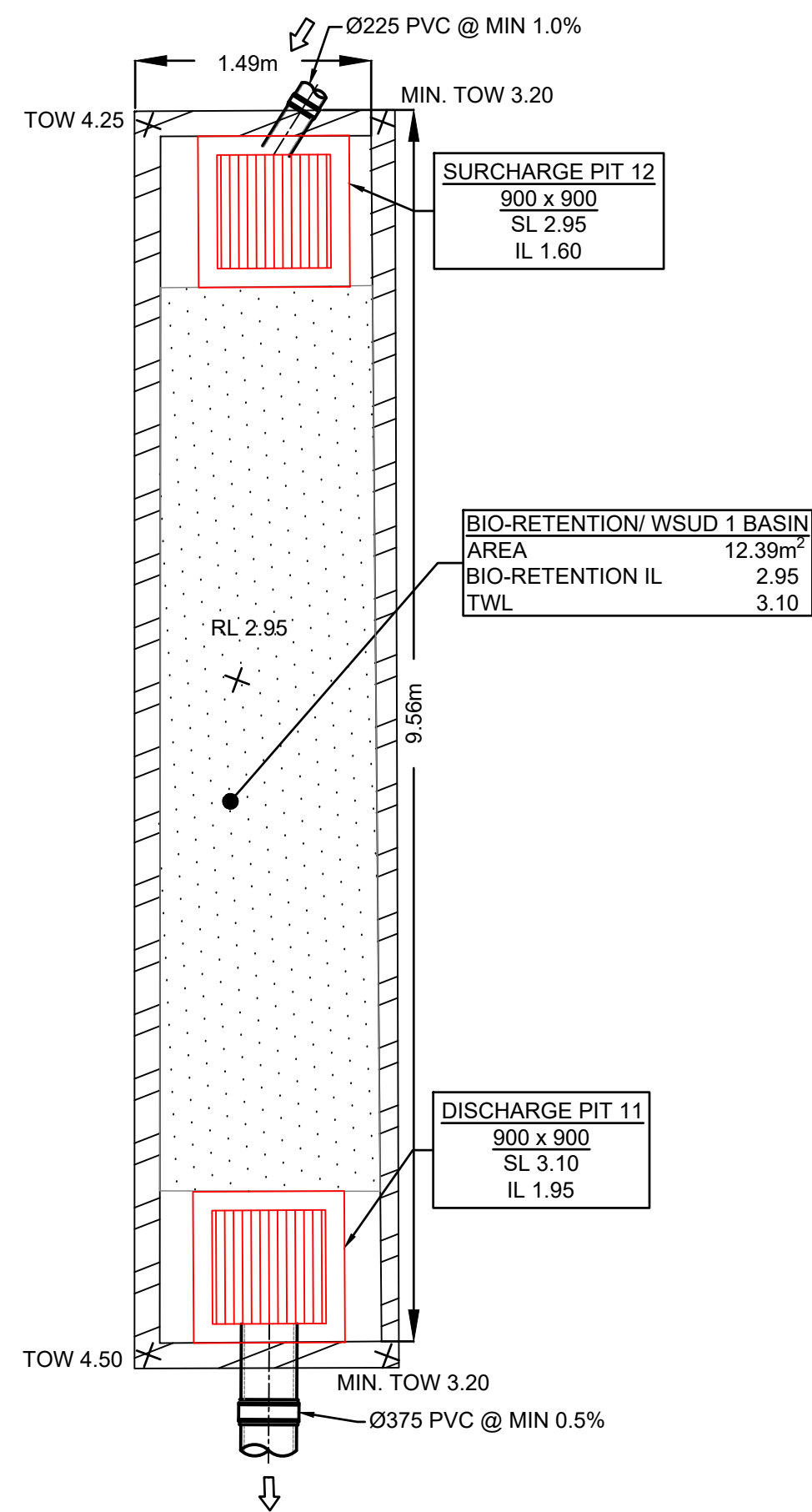
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Parramatta NSW 2150
PO BOX 3579 Parramatta 2124

Email: info@telfordcivil.com.au
Phone: 02 7809 4931
Company: Telford Consulting Pty Ltd

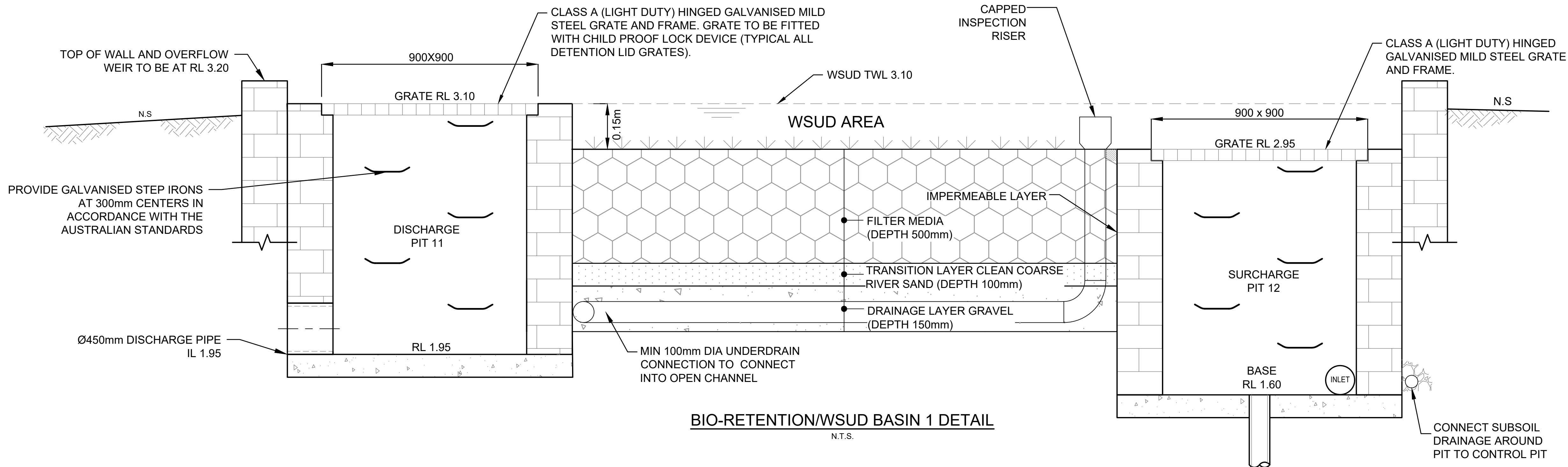
Project
20 HERADALE PARADE , BATEMANS BAY
PROPOSED RESIDENTIAL DEVELOPMENT
STORMWATER CONCEPT PLANS
SECTION 4.55

Drawing Title
CATCHMENT PLAN AND
MUSIC RESULTS

Scale A1 Project No. 22500 Dwg. No. 105 Issue B



BIO-RETENTION 1 PLAN VIEW
1:50



BIO-RETENTION/WSUD BASIN 1 DETAIL
N.T.S.

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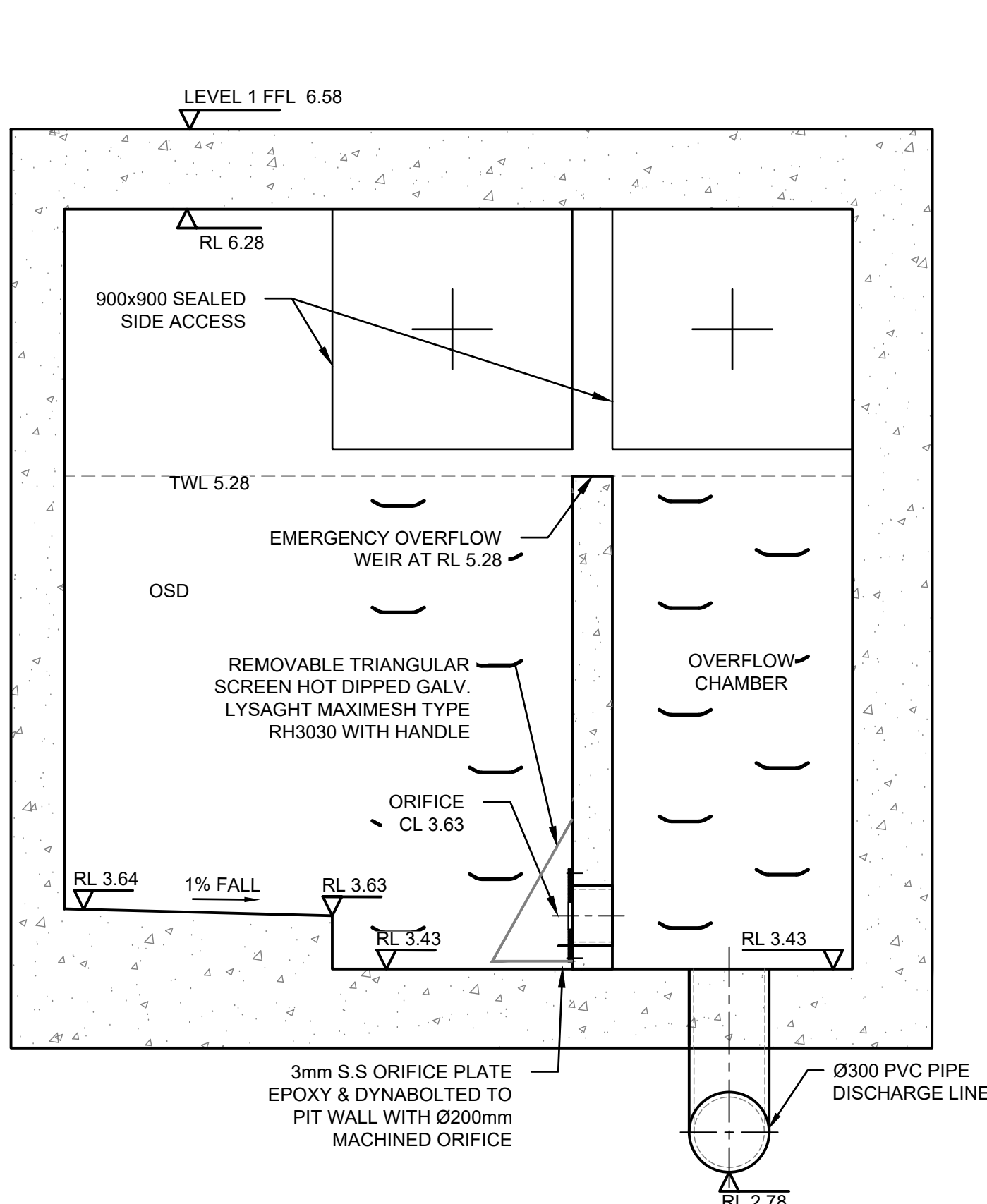
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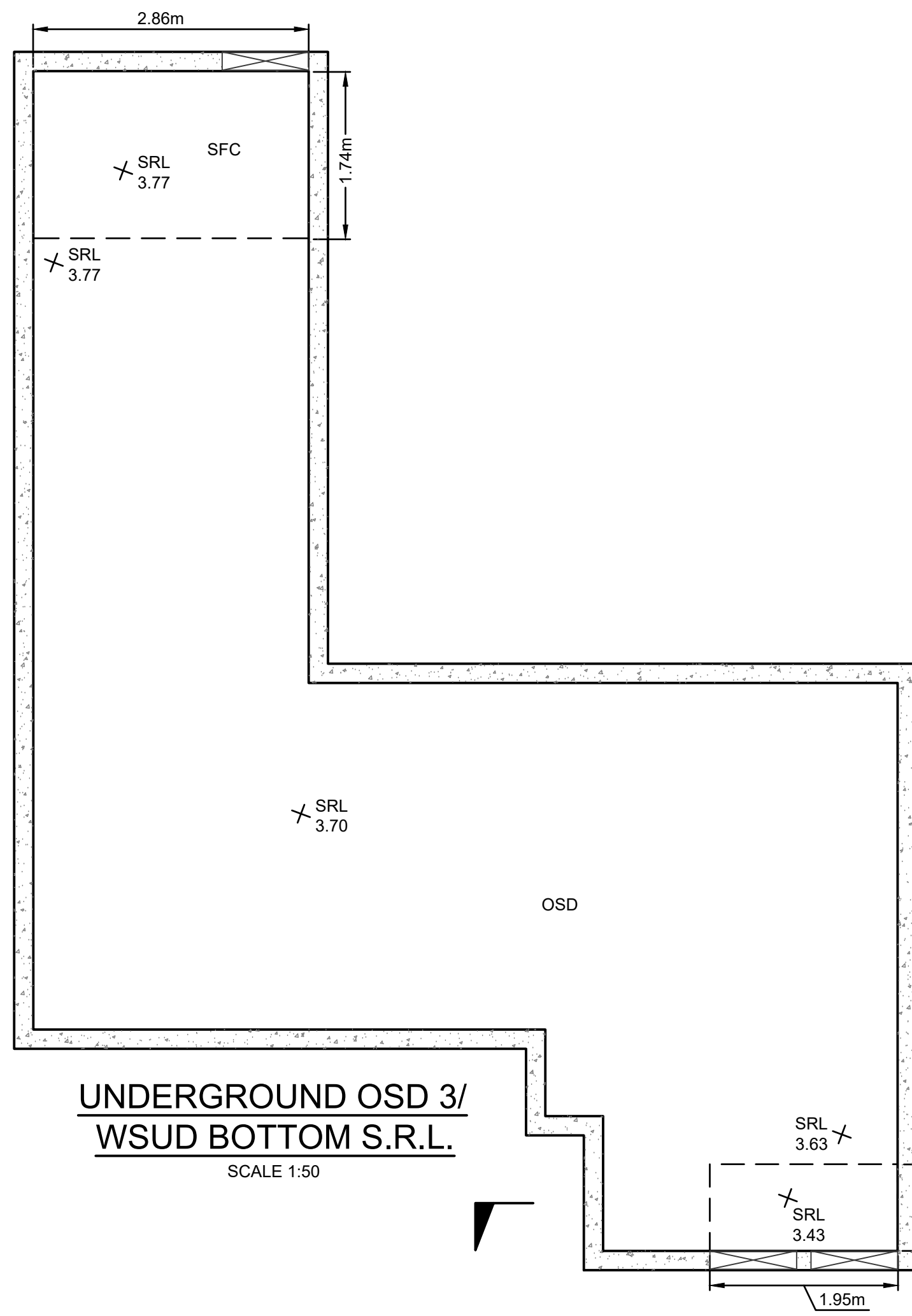
Project
**20 HERADALE PARADE , BATEMANS BAY
PROPOSED RESIDENTIAL DEVELOPMENT
STORMWATER CONCEPT PLANS
SECTION 4.55**

Drawing Title
BIO RETENTION DETAILS

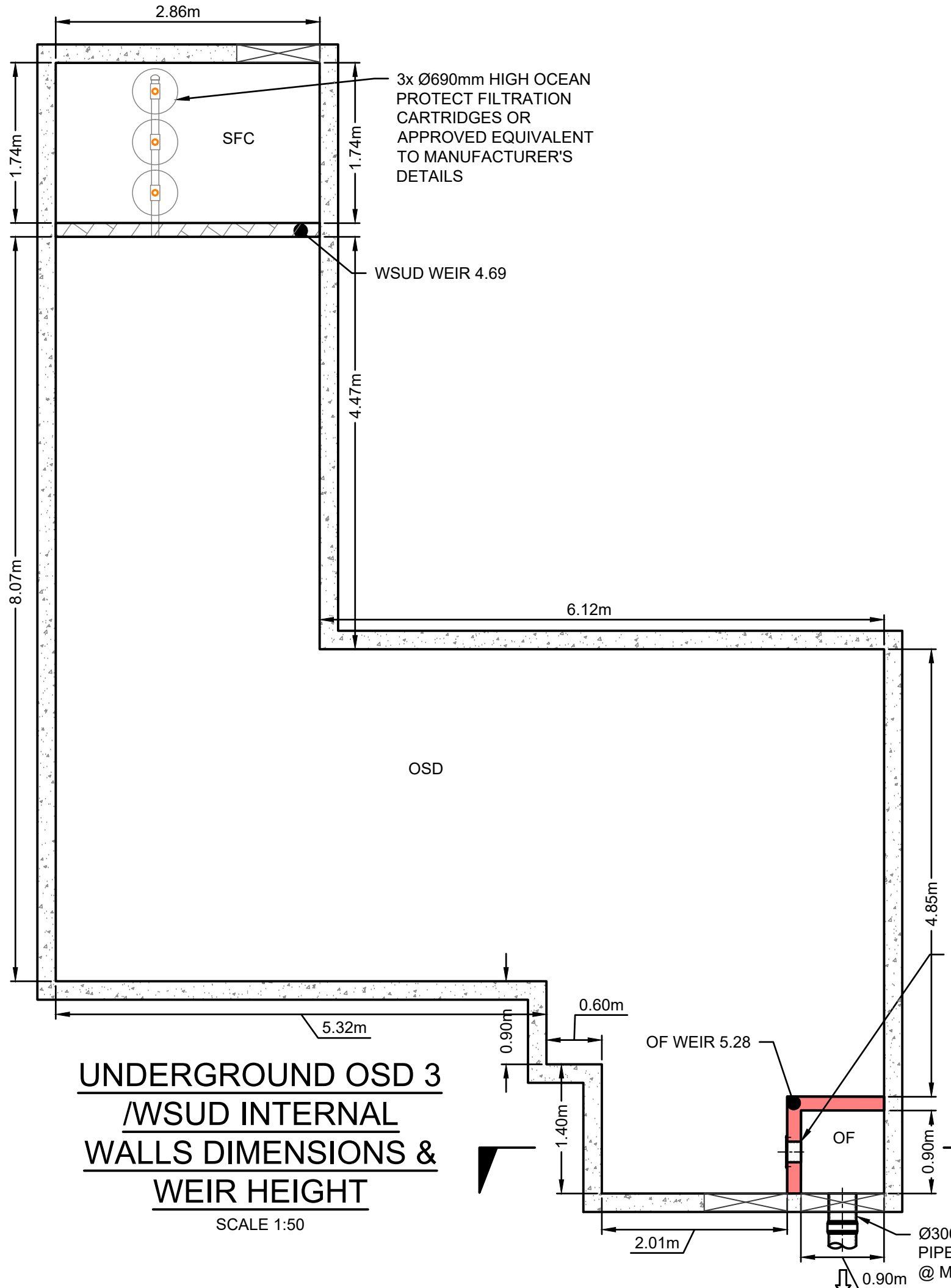
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As Shown		22500	106	A



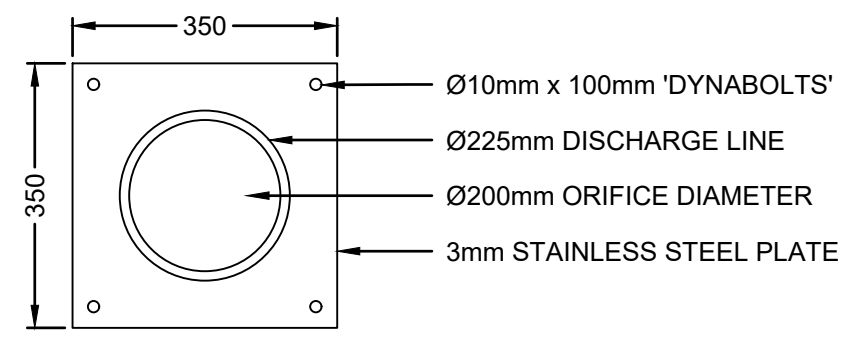
ABOVEGROUND OSD/WSUD 3 TANK DETAIL
SECTION 3
SCALE 1:20



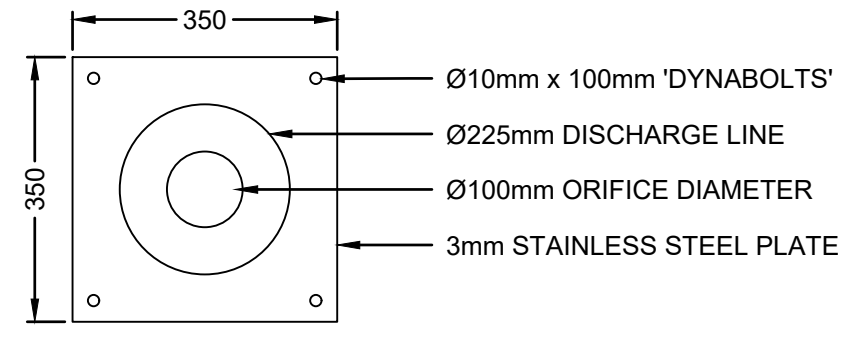
UNDERGROUND OSD 3/
WSUD BOTTOM S.R.L.
SCALE 1:50



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

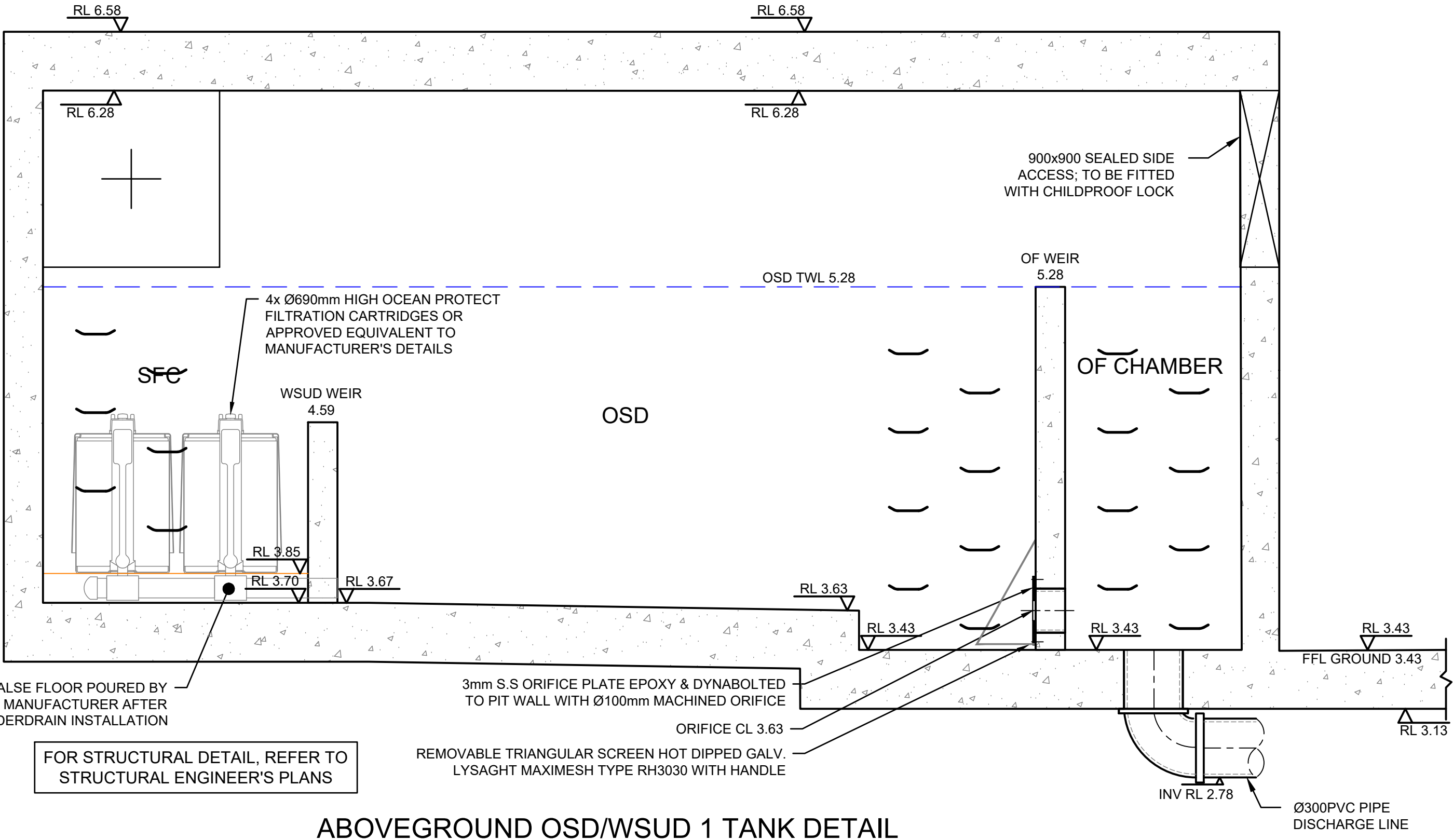


ORIFICE PLATE 3 DETAIL
SCALE 1:10

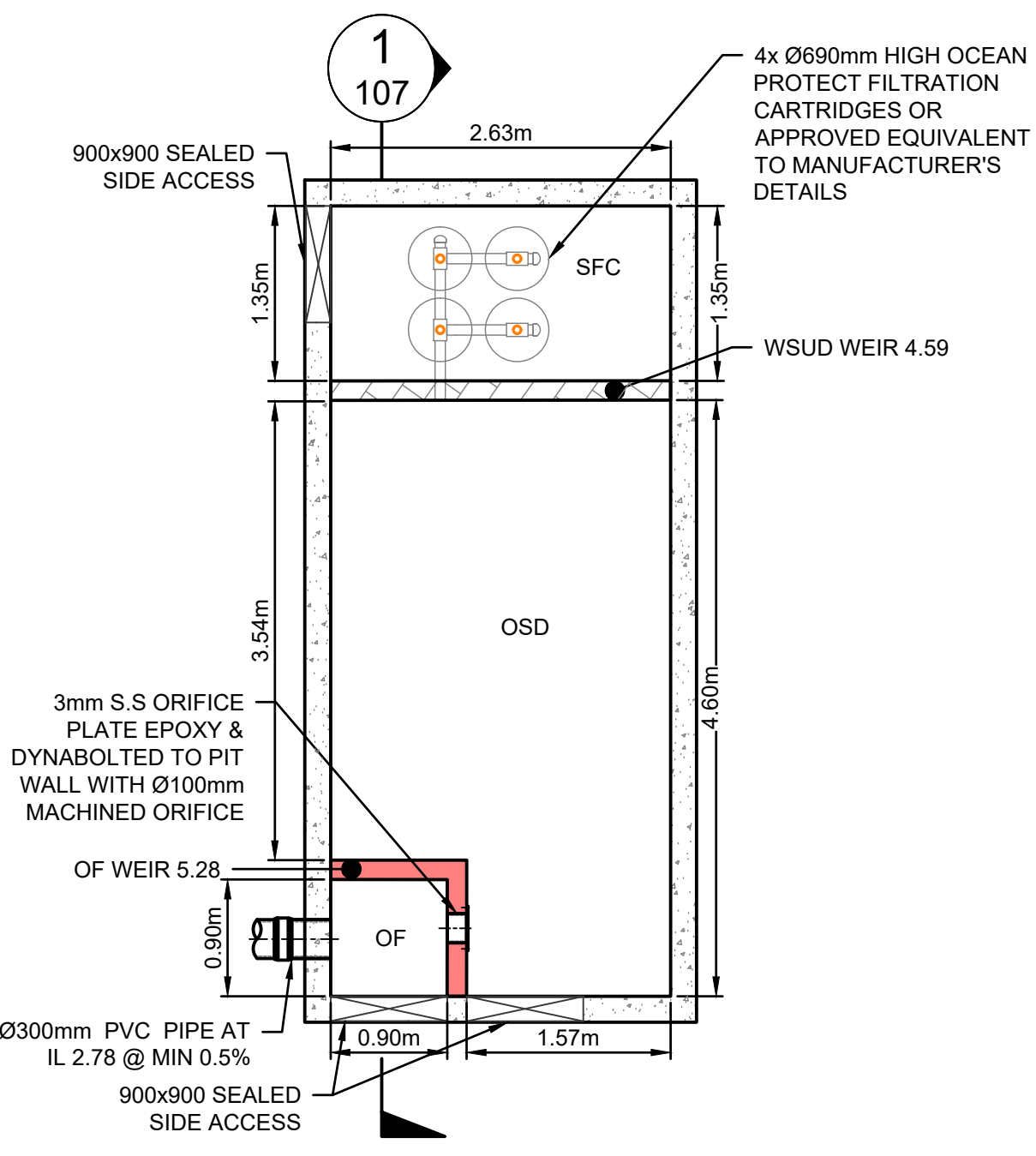


ORIFICE PLATE 1 DETAIL
SCALE 1:10

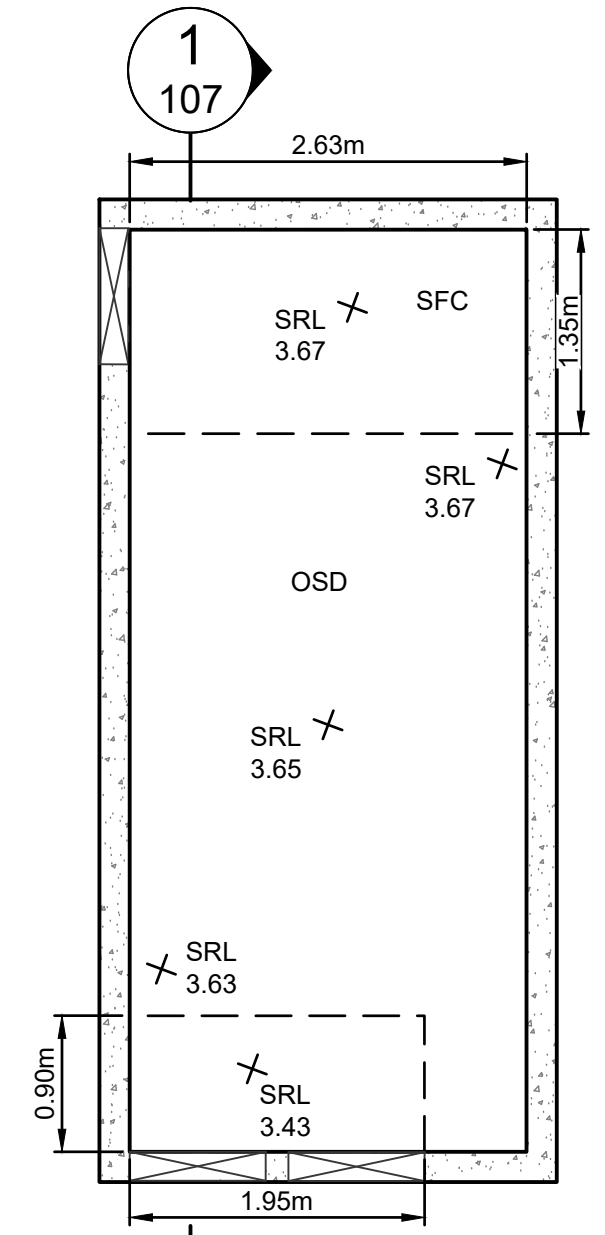
NOTE:
ALL ACCESS COVERS TO THE
OSD TO BE FITTED WITH NON
CORROSIVE, CHILDPROOF
LOCKING DEVICES.



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

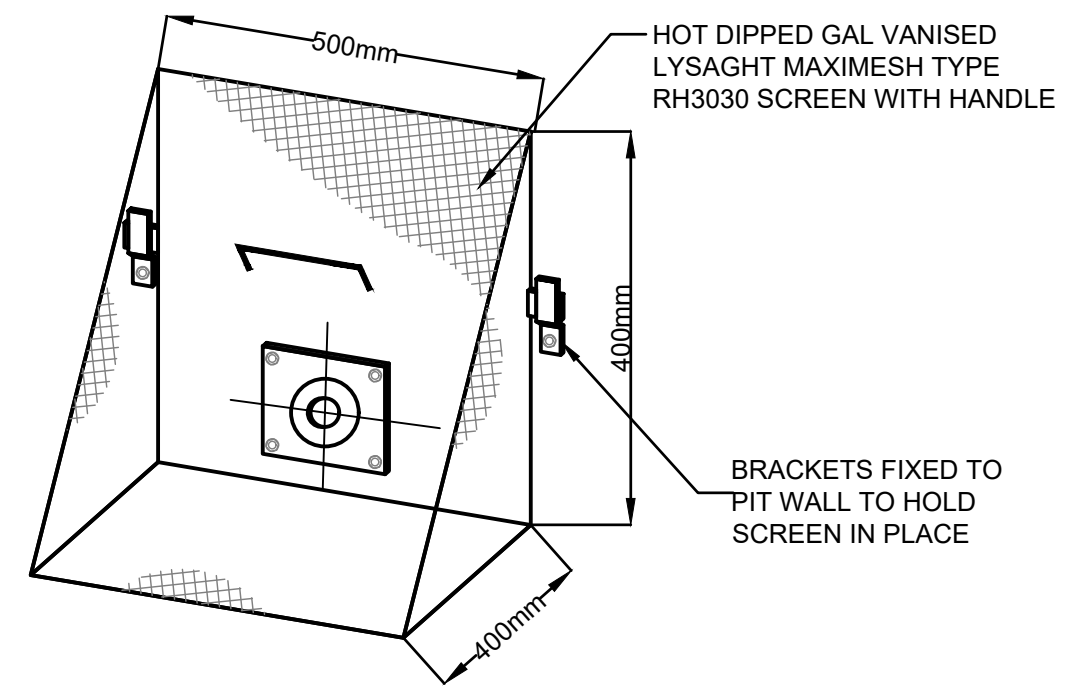


UNDERGROUND OSD 1/WSUD INTERNAL
WALLS DIMENSIONS & WEIR HEIGHT
SCALE 1:50



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

NOTE:
ON-SITE STORMWATER DETENTION CALCULATIONS
HAVE BEEN CARRIED OUT USING THE DRAINS
MODEL, ENSURING THAT POST-DEVELOPMENT
FLOW RATES DO NOT EXCEED PRE-DEVELOPMENT
CONDITIONS FOR ALL STORM EVENTS UP TO AND
INCLUDING THE 1% ANNUAL EXCEEDANCE
PROBABILITY (AEP).



TRASH SCREEN DETAIL
N.T.S.

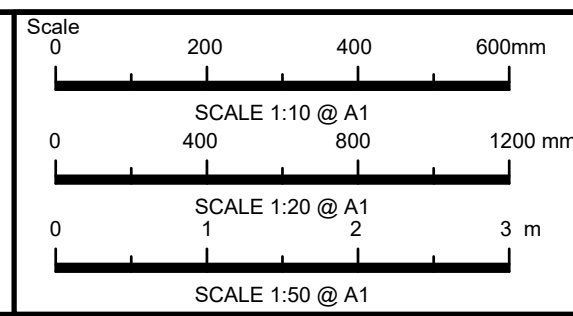
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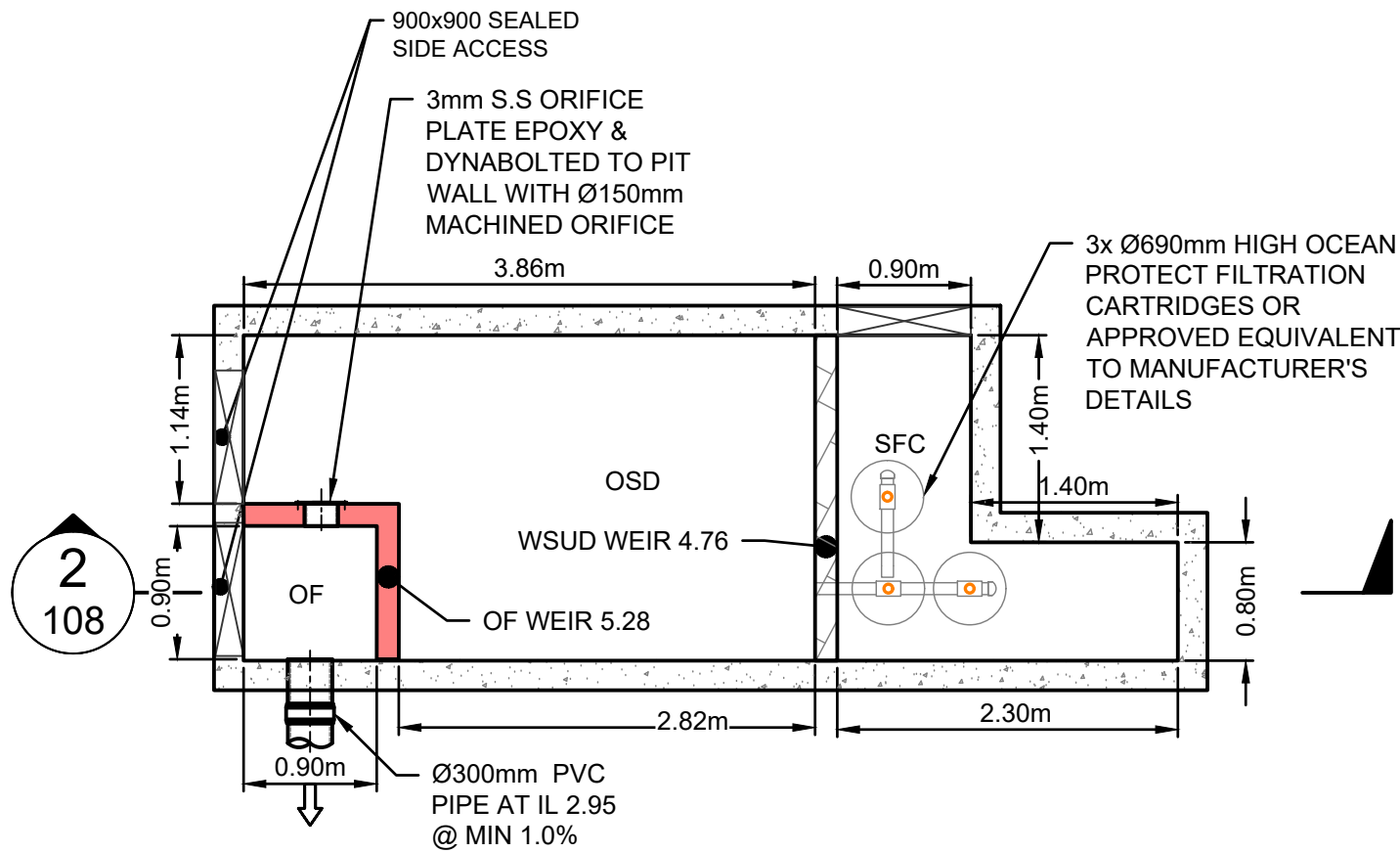
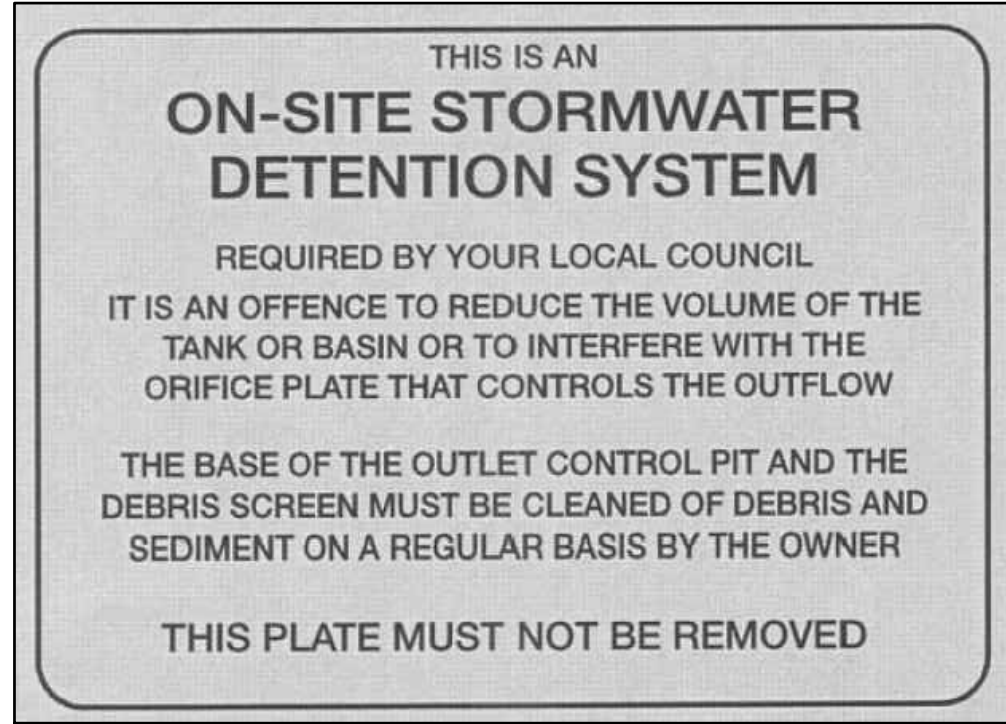
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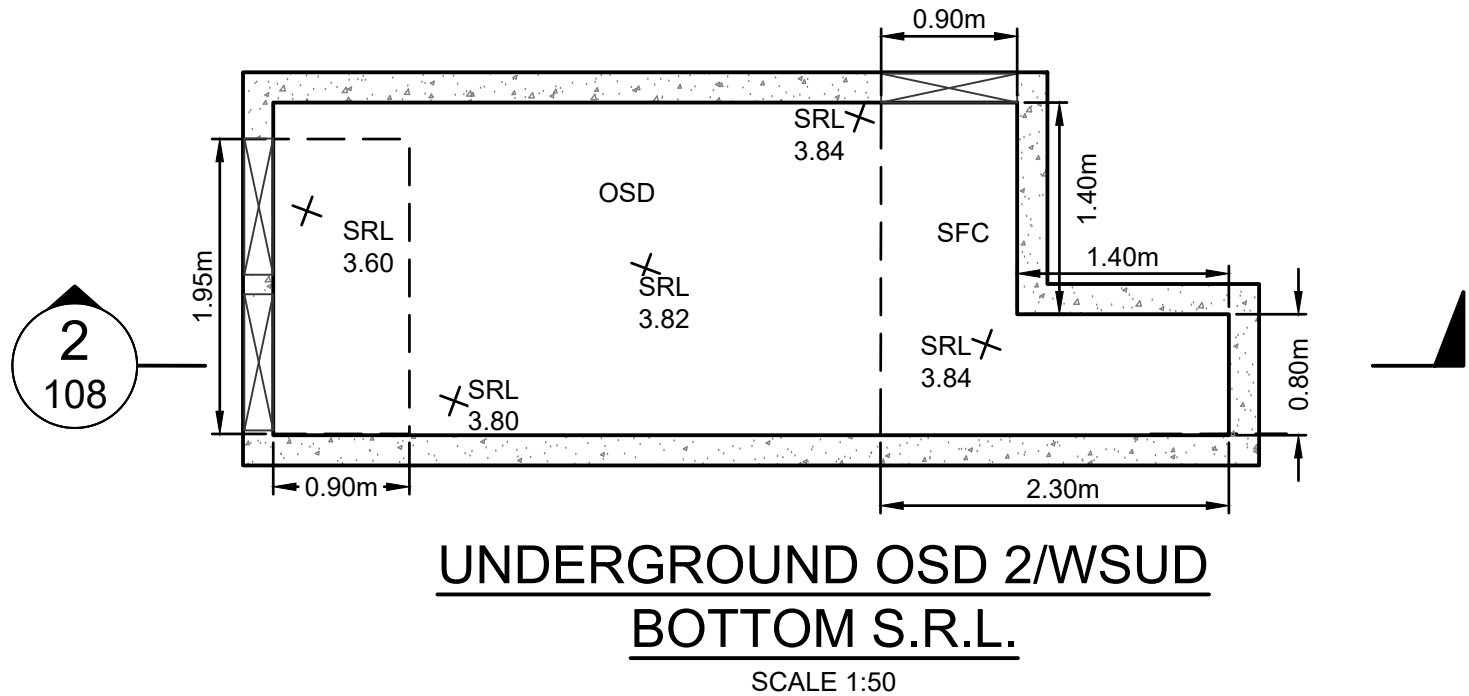
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Project
**20 HERADALE PARADE , BATEMANS BAY
PROPOSED RESIDENTIAL DEVELOPMENT
STORMWATER CONCEPT PLANS
SECTION 4.55**

Drawing Title	Scale	A1	Project No.	Dwg. No.	Issue
ON-SITE DETENTION DETAILS AND CALCULATIONS SHEET 1 OF 2	As Shown		22500	107	B



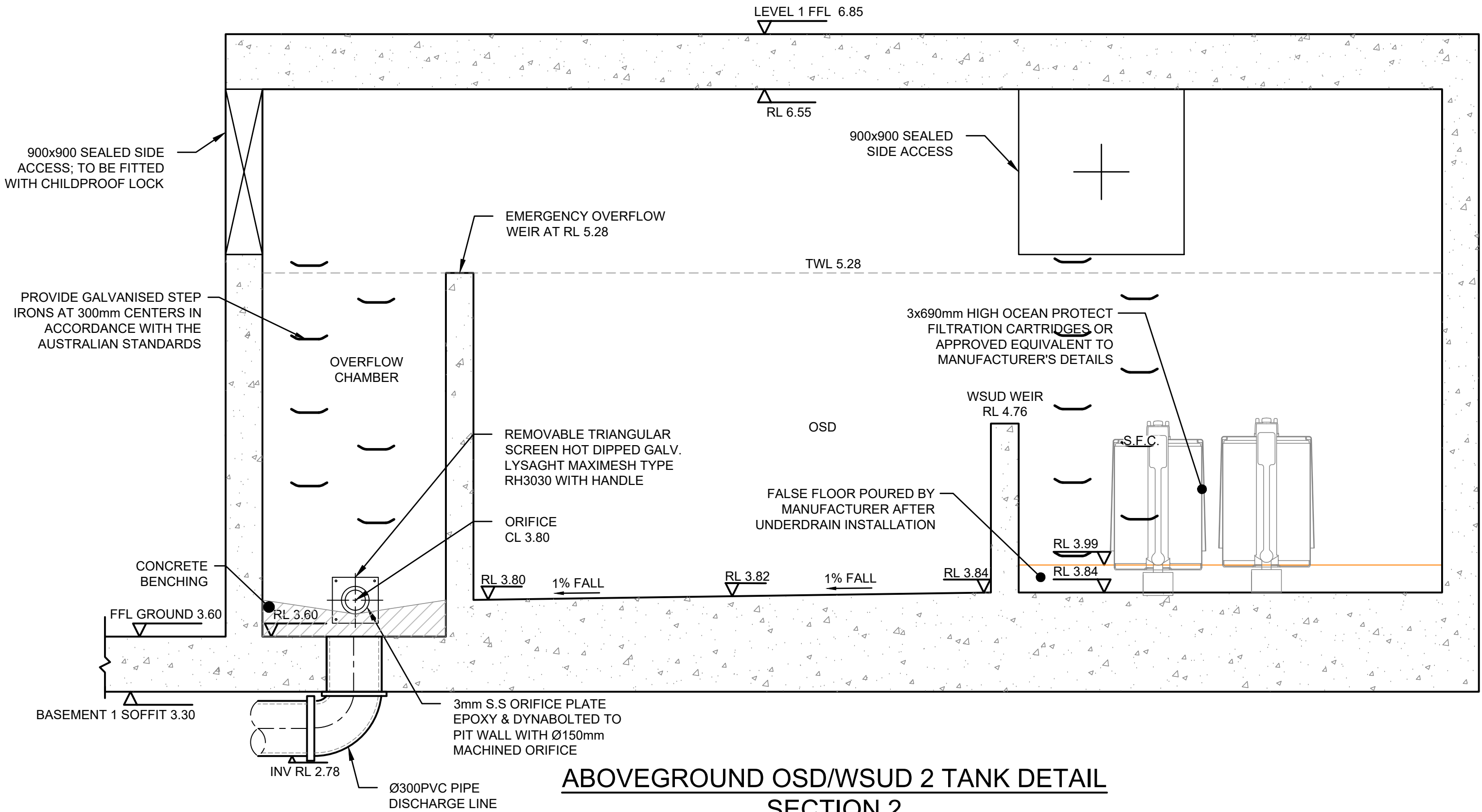
UNDERGROUND OSD 2 /WSUD INTERNAL WALLS DIMENSIONS & WEIR HEIGHT
SCALE 1:50



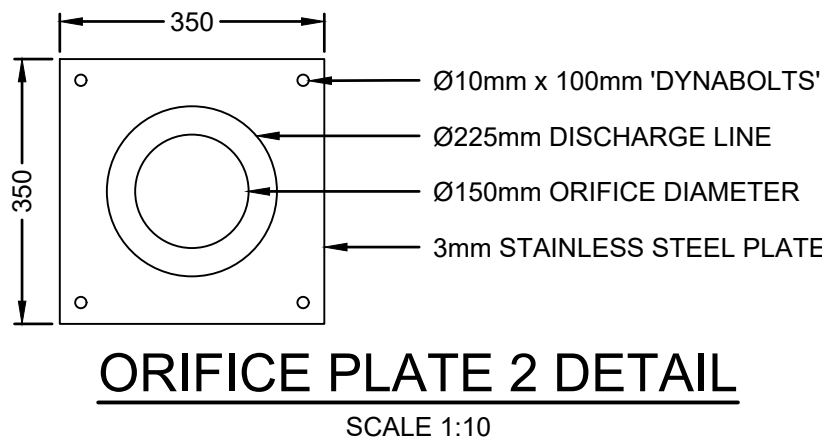
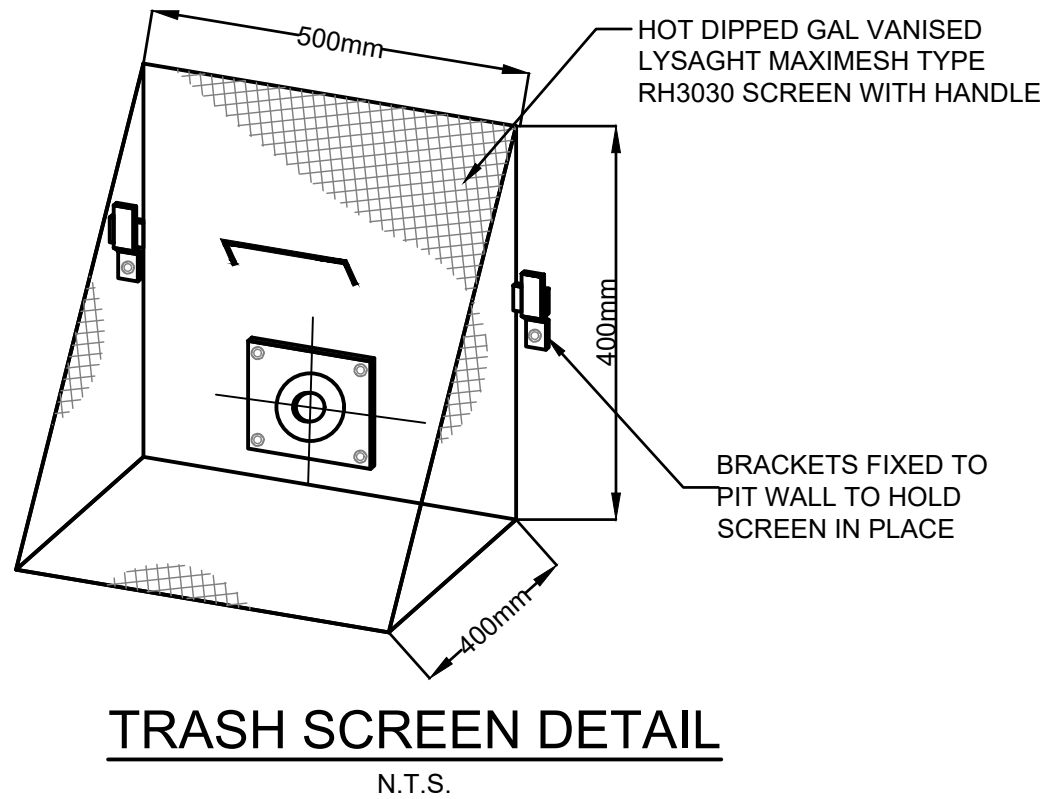
UNDERGROUND OSD 2/WSUD
BOTTOM S.R.L.
SCALE 1:50

NOTE:
ON-SITE STORMWATER DETENTION CALCULATIONS HAVE BEEN CARRIED OUT USING THE DRAINS MODEL, ENSURING THAT POST-DEVELOPMENT FLOW RATES DO NOT EXCEED PRE-DEVELOPMENT CONDITIONS FOR ALL STORM EVENTS UP TO AND INCLUDING THE 1% ANNUAL EXCEEDANCE PROBABILITY (AEP).

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



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



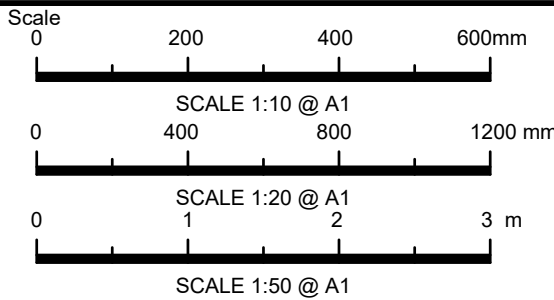
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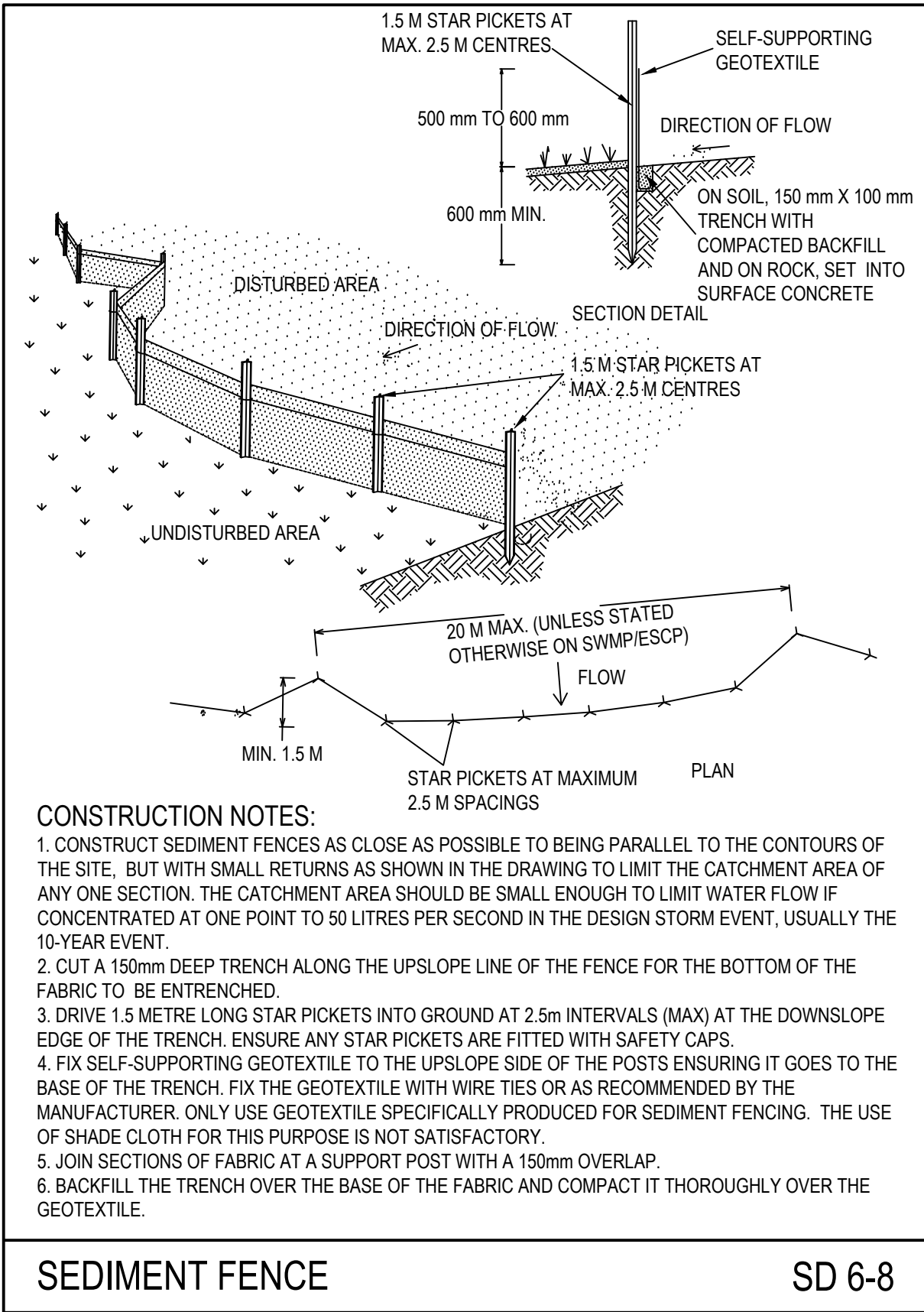
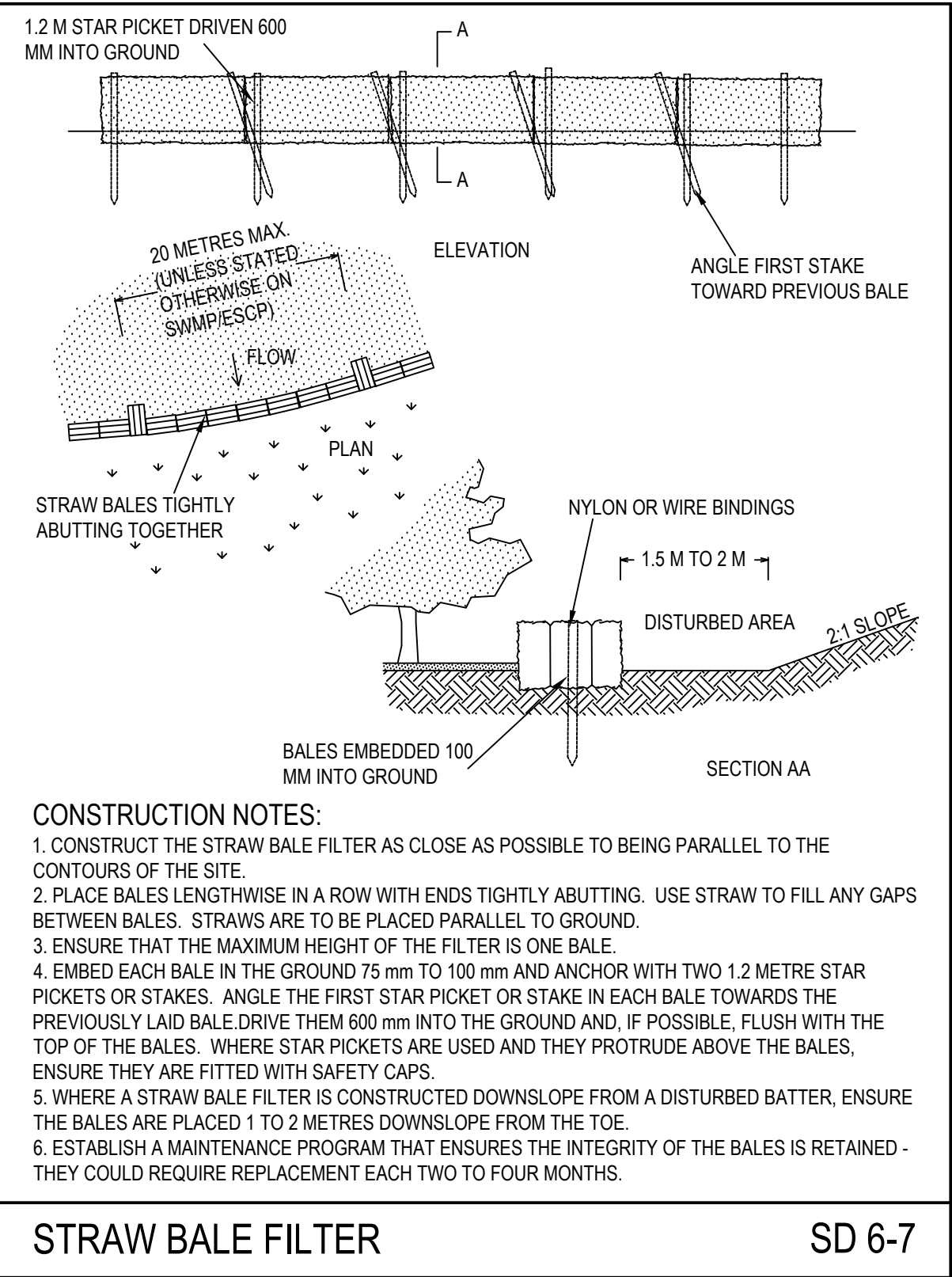
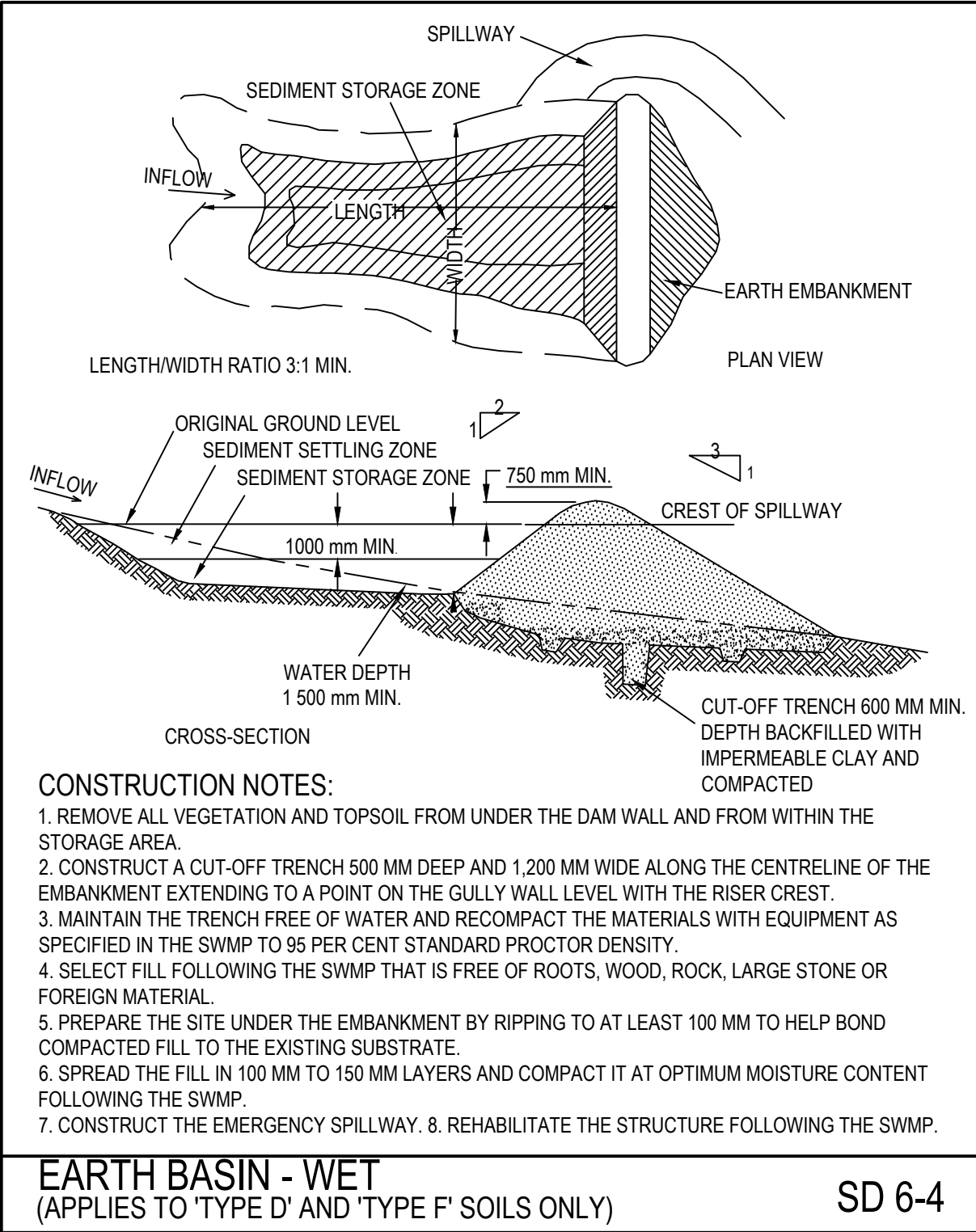
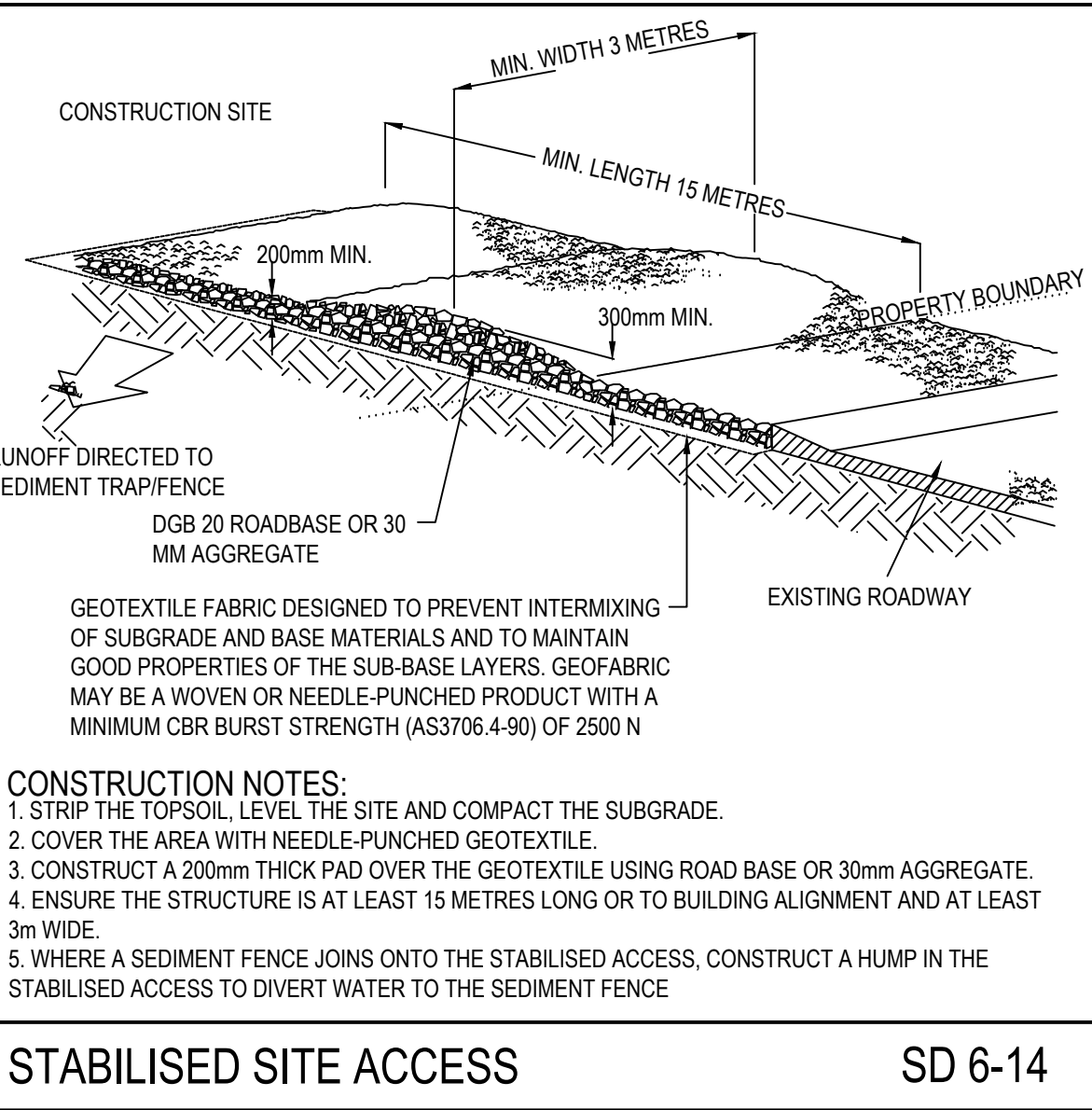
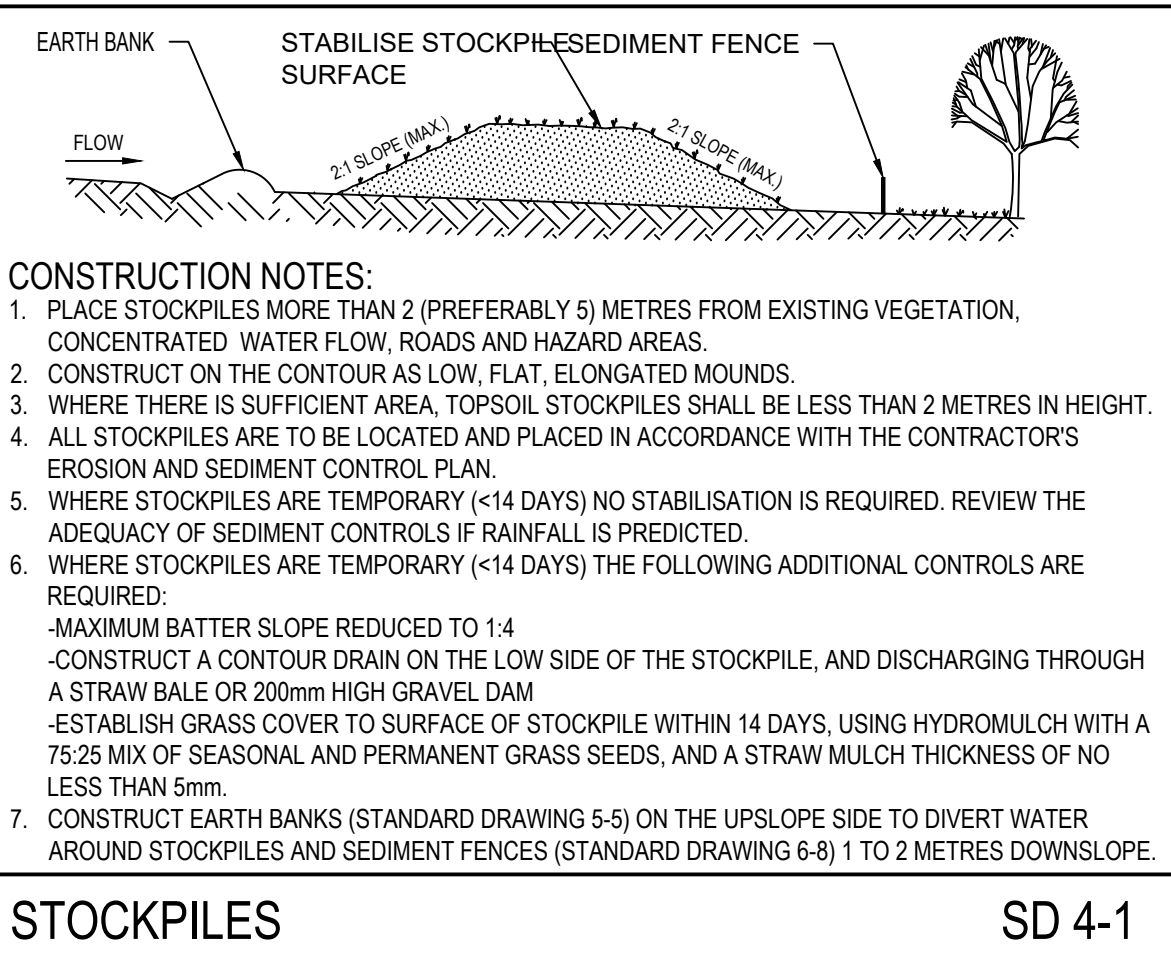
Project
**20 HERADALE PARADE , BATEMANS BAY
PROPOSED RESIDENTIAL DEVELOPMENT
STORMWATER CONCEPT PLANS
SECTION 4.55**

Scale	A1	Project No.	Dwg. No.	Issue
As Shown		22500	108	B

	EXISTING STORMWATER DRAINAGE
	EXISTING STORMWATER DRAINAGE
	EXISTING WATER MAIN
	EXISTING SEWER MAIN
	EXISTING TELESTRA
	EXISTING ELECTRICAL
	EXISTING ELECTRICAL UNDERGROUND
	EXISTING OVERHEAD ELECTRICAL
	EXISTING GAS
	EXISTING HOUSE DRAINAGE
	EXISTING OPTIC FIBER
	PROPOSED SEWER PIPE (RE-ALIGNED)
	TREE PROTECTION ZONE (TPZ)
	STRUCTURAL ROOT ZONE (SRZ)
	EXISTING CONTOUR
	EXISTING SURFACE LEVEL
	EARTHWORKS LEVELS
	DESIGN SURFACE LEVELS
	SILT FENCE
	STABILISED SITE ACCESS
	1.8 HIGH CONSTRUCTION BARRIER FENCING
	TREES TO BE RETAINED
	TREES TO BE REMOVED
	INLET PROTECTION



Drawing Title			
SEDIMENT & EROSION CONTROL PLAN & DETAILS SHEET 1 OF 2			
Scale	A1	Project No.	Dwg. No.
1:250		22500	109
			Issue A



- GENERAL:**
- WHERE POSSIBLE SEED ALL TOPSOIL AREAS TO STABILISE LOTS.
 - CONSIDERATION SHOULD BE GIVEN TO LAYING A STRIP OF TURF AT THE BASE OF THE RETAINING WALLS ALONG HIAWATHA ROAD.
 - STABILISATION OF KERBSIDE WOULD OCCUR VIA TURF STRIP AND FOOTPATH CONSTRUCTION AS SOON AS PRACTICAL.

SEDIMENT & EROSION CONTROL NOTES:

1. THE CONTRACTOR SHALL IMPLEMENT ALL SOIL EROSION AND SEDIMENT CONTROL MEASURES PRIOR TO THE COMMENCEMENT OF ANY WORKS BEING CARRIED OUT. ALL SOIL AND EROSION MEASURES SHALL BE MAINTAINED AND KEPT IN PLACE FOR THE FULL DURATION OF THE WORKS AND SHALL ONLY BE REMOVED AT FINAL STABILISATION OF THE WORKS. WHERE IT IS NECESSARY TO UNDERTAKE STRIPPING IN ORDER TO CONSTRUCT A SEDIMENT CONTROL DEVICE ONLY SUFFICIENT GROUND SHALL BE STRIPPED TO ALLOW CONSTRUCTION.
2. ALL SOIL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE CONSTRUCTED & MAINTAINED AS INDICATED ON THESE DRAWINGS. LOCATION AND EXTENT OF SOIL & WATER MANAGEMENT DEVICES IS DIAGRAMMATIC ONLY AND THE ACTUAL REQUIREMENTS SHALL BE CONFIRMED ON SITE PRIOR TO COMMENCEMENT.
3. CONFORMITY WITH THIS PLAN SHALL IN NO WAY REDUCE THE RESPONSIBILITY OF THE CONTRACTOR TO PROTECT AGAINST WATER DAMAGE DURING THE COURSE OF THE CONTRACT. IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO ENSURE THAT ANY NECESSARY CONTROL IS IN PLACE EVEN THOUGH SUCH CONTROL MAY NOT BE SHOWN ON THE PLAN.
4. THE CONTRACTOR SHALL INFORM ALL SUBCONTRACTORS & ALL EMPLOYEES OF THEIR RESPONSIBILITIES IN MINIMISING THE POTENTIAL FOR SOIL EROSION & POLLUTION TO DOWNSTREAM AREAS
5. IN ADDITION TO SEDIMENT BASINS, THE CONTRACTOR SHALL REGULARLY MAINTAIN SEDIMENT AND EROSION CONTROL STRUCTURES & DESILT SUCH STRUCTURES PRIOR TO THE REDUCTION IN CAPACITY OF 30% DUE TO ACCUMULATED SEDIMENT. THE SEDIMENT SHALL BE DISPOSED OF ON SITE IN A MANNER APPROVED BY THE ENGINEER.
6. THE CONTRACTOR SHALL TEMPORARILY REHABILITATE WITHIN TEN (10) DAYS ANY DISTURBED AREAS PROVIDING A MINIMUM 80% COVER. FINAL REHABILITATION IS TO BE PROVIDED WITHIN A FURTHER 60 DAYS WITH A MINIMUM 70% COVER.
7. THE CONTRACTOR SHALL PROVIDE WATERING OF THE VEGETATED BATTERS FOR MAINTENANCE PERIOD. PLANT, MACHINERY AND VEHICLES SHALL NOT BE DRIVEN OVER GRASSED AREAS UNLESS ON AN APPROVED HAULAGE ROUTE.
8. ALL DRAINAGE WORKS SHALL BE CONSTRUCTED AND STABILISED AS QUICKLY AS POSSIBLE TO MINIMISE RISK OF EROSION.
9. SITE ACCESS SHALL BE RESTRICTED TO THE NOMINATED POINTS. THE CONTRACTOR SHALL PROVIDE STABILISED SITE ACCESS.
10. DUST AND SITE DISTURBANCE MUST BE KEPT TO A MINIMUM. DURING WINDY WEATHER, LARGE, UNPROTECTED AREAS MUST BE KEPT MOIST (NOT WET) BY SPRINKLING WITH WATER TO REDUCE WIND EROSION. ERECT BARRIER FENCING TO MINIMISE LAND DISTURBANCE BY PREVENTING VEHICULAR AND PEDESTRIAN ACCESS TO AREAS BEING REHABILITATED AND LANDS THAT DO NOT NEED TO BE DISTURBED BY THIS PROJECT.
11. STOCKPILE TOPSOILS, SUBSOILS AND OTHER MATERIALS SEPARATELY.
12. TOPSOIL SHALL BE STORED IN LOW MOUNDS NO MORE THAN 2 METRES HIGH AND RE-USED WITHIN TWO MONTHS TO MAINTAIN ACTIVE POPULATIONS OF BENEFICIAL SOIL MICROBES & SEED.
13. PLACE ALL STOCKPILES AT LEAST FIVE METRES FROM AREAS OF LIKELY CONCENTRATED OR HIGH VELOCITY FLOWS, ESPECIALLY EARTH BANKS AND ROADS. IF NECESSARY, EARTH BANKS OR DRAINS WILL BE CONSTRUCTED TO DIVERT LOCALISED RUN-ON.
14. TURN TOPSOIL STOCKPILES OVER TO AERATE THEM AT MONTHLY INTERVALS. ENSURE VEGETATION IS NOT INCORPORATED INTO THE SOIL.
15. AVOID REVERSING THE SOIL PROFILE MATERIALS DURING FILL OPERATIONS - REPLACE DISTURBED SOILS IN THEIR ORIGINAL ORDER.
16. ON COMPLETION OF MAJOR EARTHWORKS AND BEFORE ADDING TOPSOIL, LEAVE DISTURBED LANDS WITH A LOOSE SURFACE. ALTERNATELY, DISTURBED AREAS PREVIOUSLY COMPACTED BY CONSTRUCTION WORKS WILL BE RIPPED TO MORE THAN 200mm ALONG THE CONTOUR BEFORE APPLYING TOPSOIL
17. PROVIDING MATERIALS ARE AVAILABLE, SPREAD TOPSOIL TO A MINIMUM DEPTH OF 75mm IN REVEGETATION AREAS ON SLOPES OF 4(H):1(V) OR LESS AND TO A DEPTH OF 40 TO 60mm IN REVEGETATION AREAS STEEPER THAN 4:1.
18. LEAVE TOPSOIL IN A SACRIFIED OR ROUGH CONDITION ONCE REPLACED TO HELP MOISTURE INFILTRATION AND REDUCE SOIL EROSION.
19. ENSURE SOIL IS THOROUGHLY SOAKED TO A DEPTH OF 75mm (RAIN OR IRRIGATION) IMMEDIATELY BEFORE PLANTING.
20. HANDLE TOPSOIL ONLY WHEN IT IS MOIST (NOT WET OR DRY) TO AVOID DECLINE OF SOIL STRUCTURE

21. THE CONTRACTOR SHALL MAINTAIN A LOG BOOK DETAILING:
 - RECORDS OF ALL RAINFALL
 - CONDITION OF SOIL AND WATER MANAGEMENT STRUCTURES
 - ANY APPLICATION OF FLOCCULATING AGENTS TO SEDIMENT BASIN
 - VOLUMES OF ALL WATER DISCHARGED FROM SEDIMENT BASINS
 - ANY ADDITIONAL REMEDIAL WORKS REQUIRED.
22. THE LOG BOOK SHALL BE MAINTAINED ON A WEEKLY BASIS AND BE MADE AVAILABLE TO ANY AUTHORISED PERSON UPON REQUEST. THE ORIGINAL LOG BOOK SHALL BE ISSUED TO THE PROJECT MANAGER AT THE COMPLETION OF WORKS
23. ALL ROAD EMBANKMENTS TO BE STABILISED AS PER LANDSCAPE ARCHITECTS DETAILS.
24. A SELF AUDITING PROGRAM SHOULD BE ESTABLISHED BASED ON A CHECK SHEET DEVELOPED FOR THE SITE. A SITE INSPECTION USING THE CHECK SHEET SHOULD BE MADE BY THE SITE MANAGER AT LEAST WEEKLY, IMMEDIATELY BEFORE SITE CLOSURE AND IMMEDIATELY FOLLOWING RAINFALL EVENTS THAT CAUSE RUNOFF.
25. UNDERTAKE THE SELF AUDIT BY:
 - WALKING AROUND THE SITE SYSTEMATICALLY (E.G. CLOCKWISE)
 - RECORDING THE CONDITION OF EVERY BMP EMPLOYED
 - RECORDING MAINTENANCE REQUIREMENTS (IF ANY) FOR EACH BMP
 - RECORDING THE SITE WHERE SEDIMENT IS DISPOSED
 - FORWARDING A SIGNED DUPLICATE OF THE COMPLETED CHECK SHEET TO THE PROJECT MANAGER/DEVELOPER/SITE OPERATOR FOR THEIR INFORMATION
26. IN PARTICULAR, INSPECT:
 - LOCATIONS WHERE VEHICLES ENTER AND LEAVE THE SITE
 - ALL INSTALLED EROSION AND SEDIMENT CONTROL MEASURES, ENSURING THEY ARE OPERATING CORRECTLY
 - AREAS THAT MIGHT SHOW WHETHER SEDIMENT OR OTHER POLLUTANTS ARE LEAVING THE SITE OR HAVE POTENTIAL TO DO SO
 - ALL DISCHARGE POINTS, TO ASSESS WHETHER THE EROSION AND SEDIMENT CONTROL MEASURES ARE EFFECTIVE IN PREVENTING IMPACTS TO THE RECEIVING WATERS
27. A SITE INSPECTION USING THE CHECK SHEET WILL BE MADE BY THE SITE MANAGER AT LEAST WEEKLY, IMMEDIATELY BEFORE SITE CLOSURE, AND IMMEDIATELY FOLLOWING RAINFALL EVENTS GREATER THAN 5mm IN 24 HOURS.

- BASIN DEWATERING NOTES:**
- ALL SEDIMENT BASINS ON-SITE ARE TO BE CONTINUOUSLY MONITORED AND MAINTAINED BEFORE AND AFTER RAIN EVENTS. DEWATERING IS TO BE ACHIEVED BY:
- AFTER A RAIN EVENT, ALLOW UP TO 24 HOURS FOR ALL SURFACE FLOWS AND GROUND WATER TO CONTINUE SEEPING INTO THE BASIN;
 - PLACE INDUSTRY STANDARD FLOCCULANT FOR A PERIOD OF 24-48 HOURS. MORE TIME MAY BE REQUIRED DEPENDING ON GROUND SEEPAGE FROM UPSTREAM CATCHMENT;
 - WATER QUALITY TESTING BY AN ACCREDITED ENVIRONMENTAL ENGINEER AND LABORATORY FOR TOTAL SUSPENDED SOLIDS (TSS) IS TO OCCUR;
 - ONCE CLEARANCE BY AN ENVIRONMENTAL ENGINEER HAS BEEN SOUGHT, PUMP WATER IN NEARBY DRAINAGE SYSTEM

NOT FOR CONSTRUCTION

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Scale

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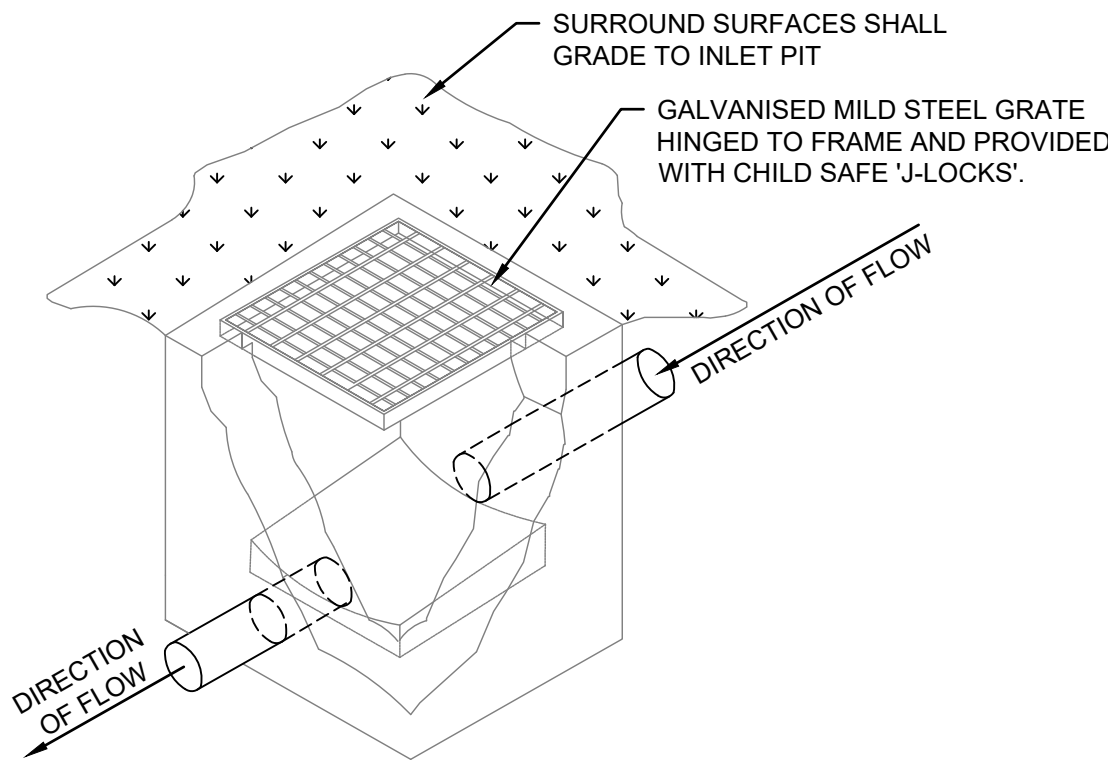
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PROPOSED RESIDENTIAL DEVELOPMENT
STORMWATER CONCEPT PLANS**
SECTION 4.55

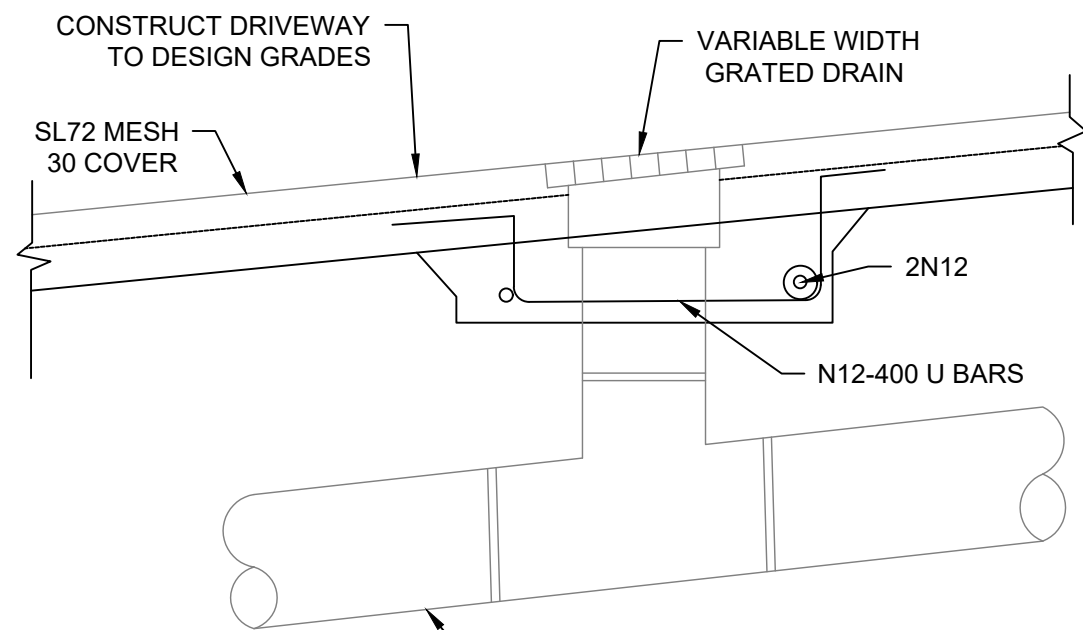
Drawing Title
**SEDIMENT & EROSION
CONTROL PLAN & DETAILS
SHEET 2 OF 2**

Scale	A1	Project No.	Dwg. No.	Issue
As Shown		22500	109b	A



TYPICAL GRATED INLET PIT DETAIL

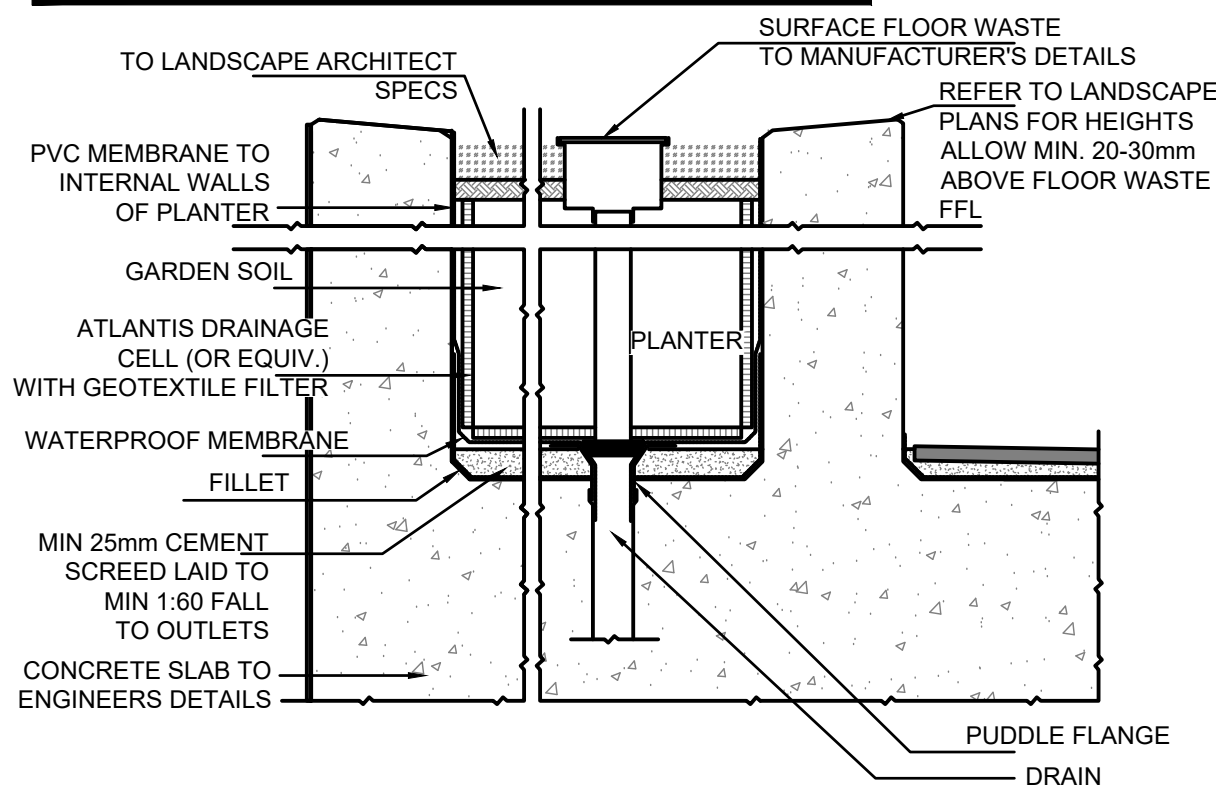
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GRATED DRAIN DETAIL

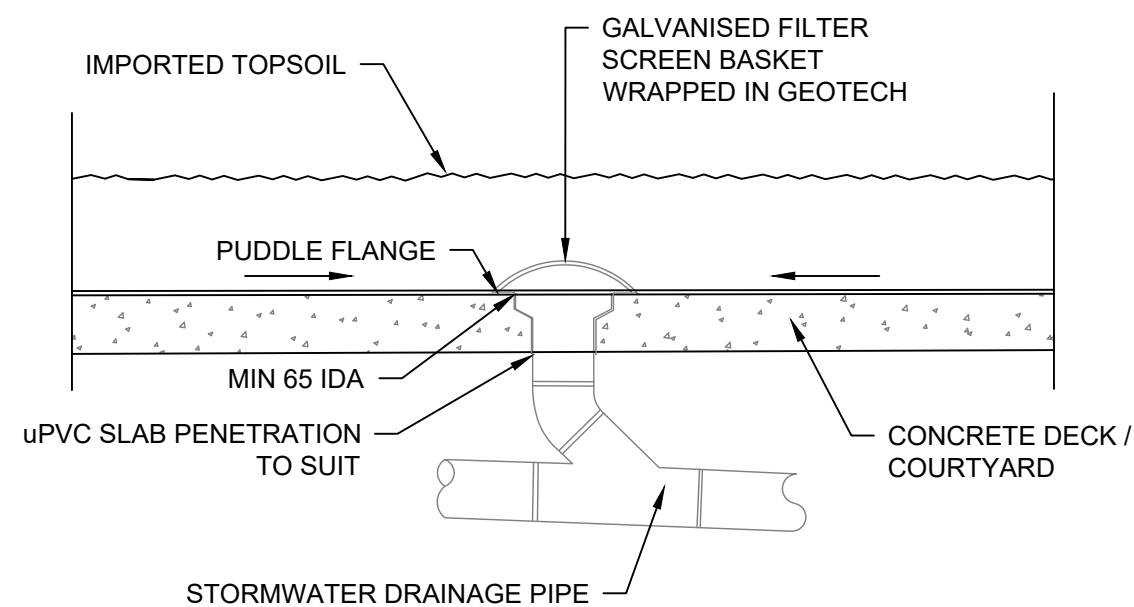
N.T.S.

NOTE:
DETAIL TO BE CONFIRMED BY
WATERPROOFING CONSULTANT/ARCHITECT.



TYPICAL SUSPENDED PLANTER BOX FLOOR WASTE DETAIL

N.T.S.



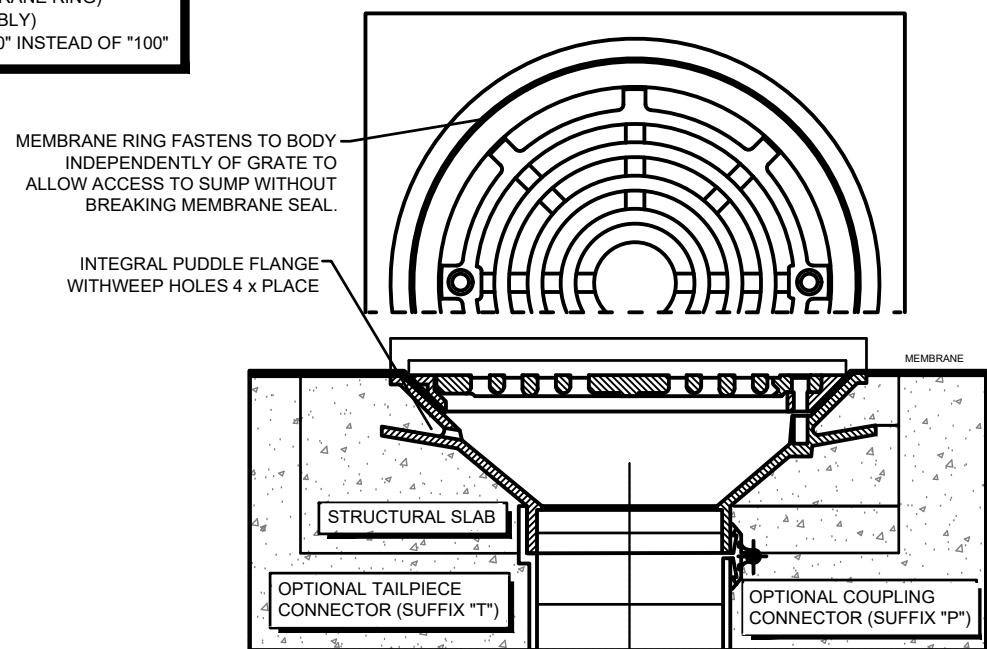
PLANTER GRATE DETAIL

N.T.S.

Stormwater Drainage System Maintenance Schedule			
Maintenance Action	Frequency	Responsibility	Procedure
General			
Inspect roof drainage system of building and remove any debris/sludge	Six Monthly	Strata/Maintenance Contractor	Remove any leaves or debris and sludge from gutters of building and flush downpipes of building to remove any blockages. Pits downstream of downpipes to be cleaned of flushed debris.
Inspect pits and trench drains on site and remove debris/litter/sludge	Monthly or following Rain Period	Strata/Maintenance Contractor	Remove grate. Remove any debris/litter/sludge from within pits.
Inspect site for litter and floatable debris and remove	Fortnightly	Strata/Maintenance Contractor	Remove litter from site and sweep all driveway and pathways in order to remove leaves or sediments that may enter into the drainage system.
Basement Pump out			
Inspect and clean flap valve,	Six Monthly	Strata/Maintenance Contractor	Remove grate and check flap valve and pipe for blockages and clean. Check hinges for rust and test operation by moving flap to full extent.
Check hinge operation.	Annually	Strata/Maintenance Contractor	Inspect hinge and check its operation.
Check attachment of flap valve to wall pit.	Annually	Strata/Maintenance Contractor	Remove grate and ensure valve fixings are secure.
Check flap valve seal.	Six Monthly	Strata/Maintenance Contractor	Remove grate and fill pit with water, ensure flap seals against side of pit with minimal leakage.
Inspect walls for cracking or spalling.	Annually	Strata/Maintenance Contractor	Remove grate to inspect internal walls, remove vegetation to inspect external wall, repair as required.
Inspect sump and clean.	Six Monthly	Strata/Maintenance Contractor	Remove grate and clean sediment/sludge from sump.
Inspect grate for damage or blockage.	Six Monthly	Strata/Maintenance Contractor	Check both sides of grate for corrosion (particularly welds and corners); also check for damage and blockages.
Inspect outlet pipe and remove blockages	Six Monthly	Strata/Maintenance Contractor	Remove grate and flush outlet pipe to ensure it drains freely. Check for debris on upstream side of return line.
Outlets			
Inspect & remove any blockage of orifices	Six monthly	Strata/Maintenance Contractor	Remove grate & screen to inspect orifice. See plan for location of outlets
Check attachment of orifice plates to wall of chamber and/or pit (gaps less than 5 mm)	Annually	Strata/Maintenance Contractor	Remove grate and screen. Ensure plates are mounted securely, tighten fixings if required. Seal gaps as required.
Check orifice diameters are correct and retain sharp edges	Five yearly	Strata/Maintenance Contractor	Compare diameter to design (see Work-as-Executed) and ensure edge is not pitted or damaged.
Inspect screen and clean	Six monthly	Strata/Maintenance Contractor	Remove grate(s) and screens if required to clean them.
Check attachment of screens to wall of chamber or pit	Annually	Strata/Maintenance Contractor	Remove grate(s) and screen(s). Ensure screen fixings are secure. Repair as required.
Check screen(s) for corrosion	Annually	Strata/Maintenance Contractor	Remove grate(s) and examine screen(s) for rust or corrosion, especially at corners or welds.
Inspect walls (internal and external, if appropriate) for cracks or spalling	Annually	Strata/Maintenance Contractor	Remove grate(s) to inspect internal walls. Repair as required. Clear vegetation from external walls if necessary and repair as required.
Inspect outlet sumps & remove any sediment/sludge	Six monthly	Strata/Maintenance Contractor	Remove grate(s) and screen(s). Remove sediment/sludge build-up and check orifices are clear.
Inspect grate(s) for damage or blockage	Six monthly	Strata/Maintenance Contractor	Check both sides of a grate for corrosion, (especially corners and welds) damage or blockage.
Inspect outlet pipe & remove any blockage	Six monthly	Strata/Maintenance Contractor	Remove grate(s) and screen(s). Ventilate underground storage if present. Check orifices and remove any blockages in outlet pipe. Flush outlet pipe to confirm it drains freely. Check for sludge/debris on upstream side of return line.
Check step irons for corrosion	Annually	Strata/Maintenance Contractor	Remove grate. Examine step irons and repair any corrosion or damage
Check fixing of step irons is secure	Six monthly	Strata/Maintenance Contractor	Remove grate(s) and ensure fixings are secure prior to placing weight on step iron.
Storage			
Inspect storage & remove any sediment/sludge in pit	Six monthly	Strata/Maintenance Contractor	Remove grate(s) and screen(s). Remove sediment/sludge build-up.
Inspect internal walls of storage (and external, if appropriate) for cracks or spalling	Annually	Strata/Maintenance Contractor	Remove grate(s) to inspect internal walls. Repair as required. Clear vegetation from external walls if necessary and repair as required.
Inspect & remove any debris/litter/mulch etc blocking grates	Six monthly	Strata/Maintenance Contractor	Remove blockages from grate(s) and check if storage is blocked.
Inspect areas draining to the storage(s) & remove debris/mulch/litter etc likely to block screens/grates	Six monthly	Strata/Maintenance Contractor	Remove debris and floatable material likely to be carried to grates.
Compare storage volume to volume approved. (Rectify if loss > 5%)	Annually	Strata/Maintenance Contractor	Compare actual storage available with Work-as Executed plans. If volume loss is greater than 5%, arrange for reconstruction to replace the volume lost. Council to be notified of the proposal.
Inspect storages for subsidence near pits	Annually	Strata/Maintenance Contractor	Check along drainage lines and at pits for subsidence likely to indicate leakages.

SPECIFICATION CODE:
TIA100F2 (CI BODY, ALUMINIUM FLAT GRATE & MEMBRANE RING) TIB100F2 (CI BODY, BRONZE FLAT GRATE & MEMBRANE RING) TBA100F2 (ALL-BRONZE ASSEMBLY) -FRG 150mm OUTLET. USE "150" INSTEAD OF "100"

SUGGESTED APPLICATION:
MEMBRANE FLOORS OR ROOFS WITH NO FURTHER TOPPING, EG PLANTER BOXES, PLANT ROOMS, ROOF DECKS.



SPS TRUFLO 100mm & 150mm RWO WITH FLAT GRATE & MEMBRANE CLAMP

N.T.S.

N.B	A	B	C	D	E	F	G	FLOW RATE* L/S
100	260	240	110	98	28	45	25	8.5
150	260	238	160	90	28	37	25	9.4

NOT FOR CONSTRUCTION

B	ISSUE FOR SECTION 4.55	17/10/2025	YKK	SBF
A	ISSUE FOR SECTION 4.55	01/05/2025	YKK	SBF
Issue	Description	Date	Design	Checked

Certification By Dr. Michel Grasys
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Council
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Scale

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Project
20 HERADALE PARADE , BATEMANS BAY
PROPOSED RESIDENTIAL DEVELOPMENT
STORMWATER CONCEPT PLANS
SECTION 4.55

Drawing Title
MISCELLANEOUS DETAILS SHEET

Scale	A1	Project No.	Dwg. No.	Issue
N.T.S.		22500	110	B

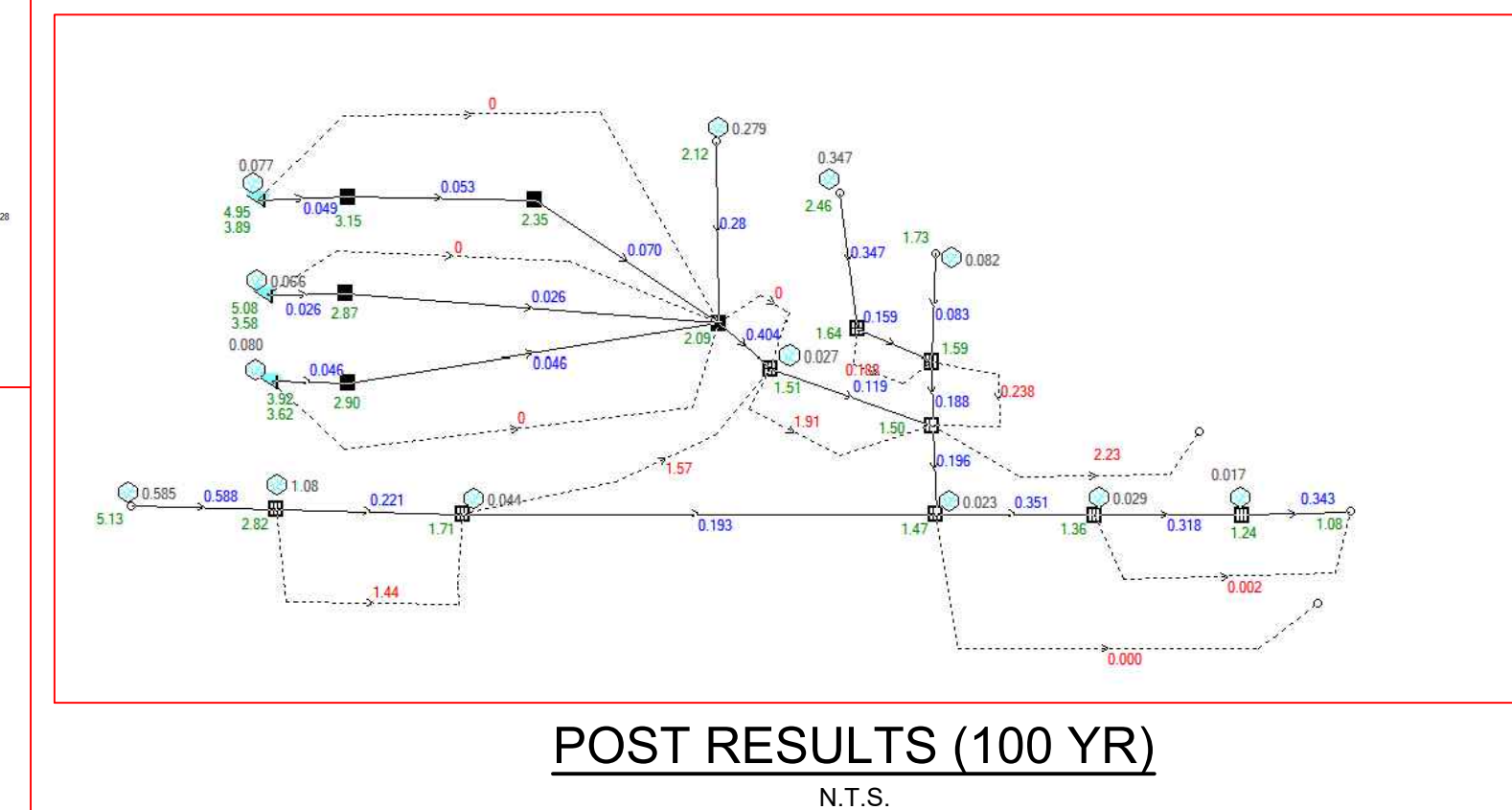
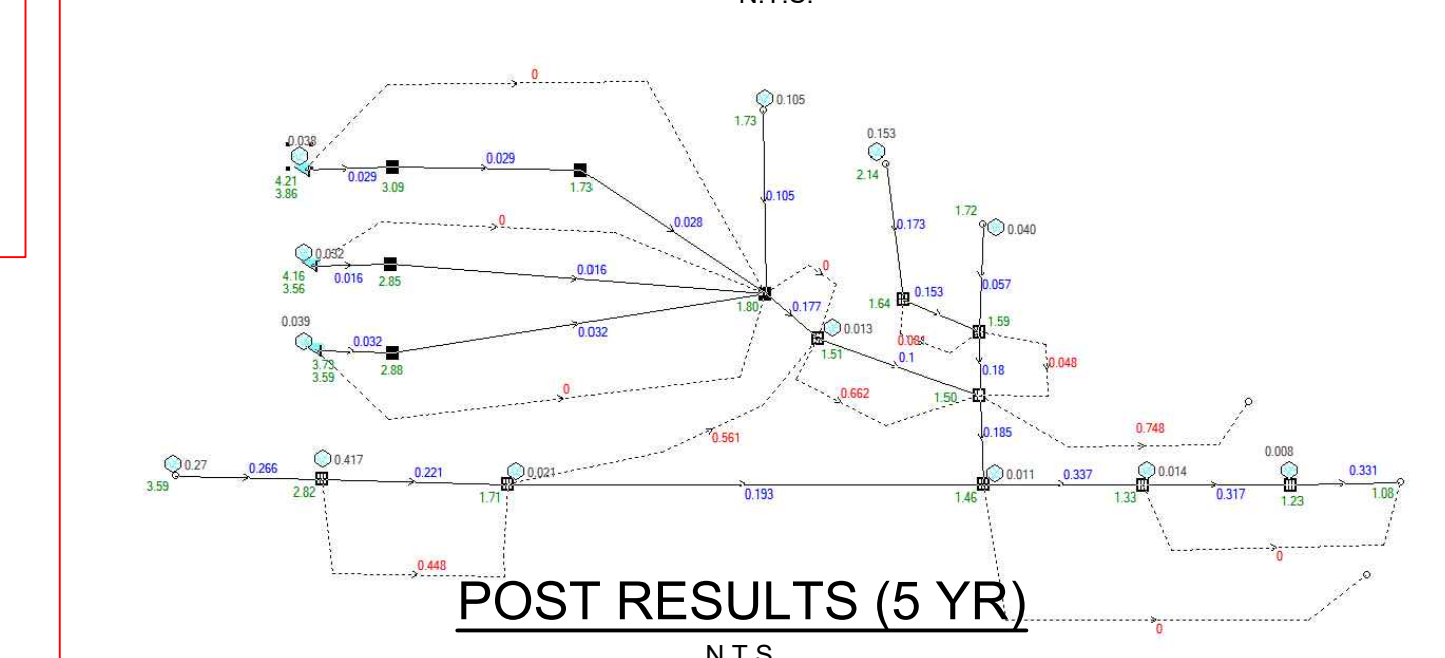
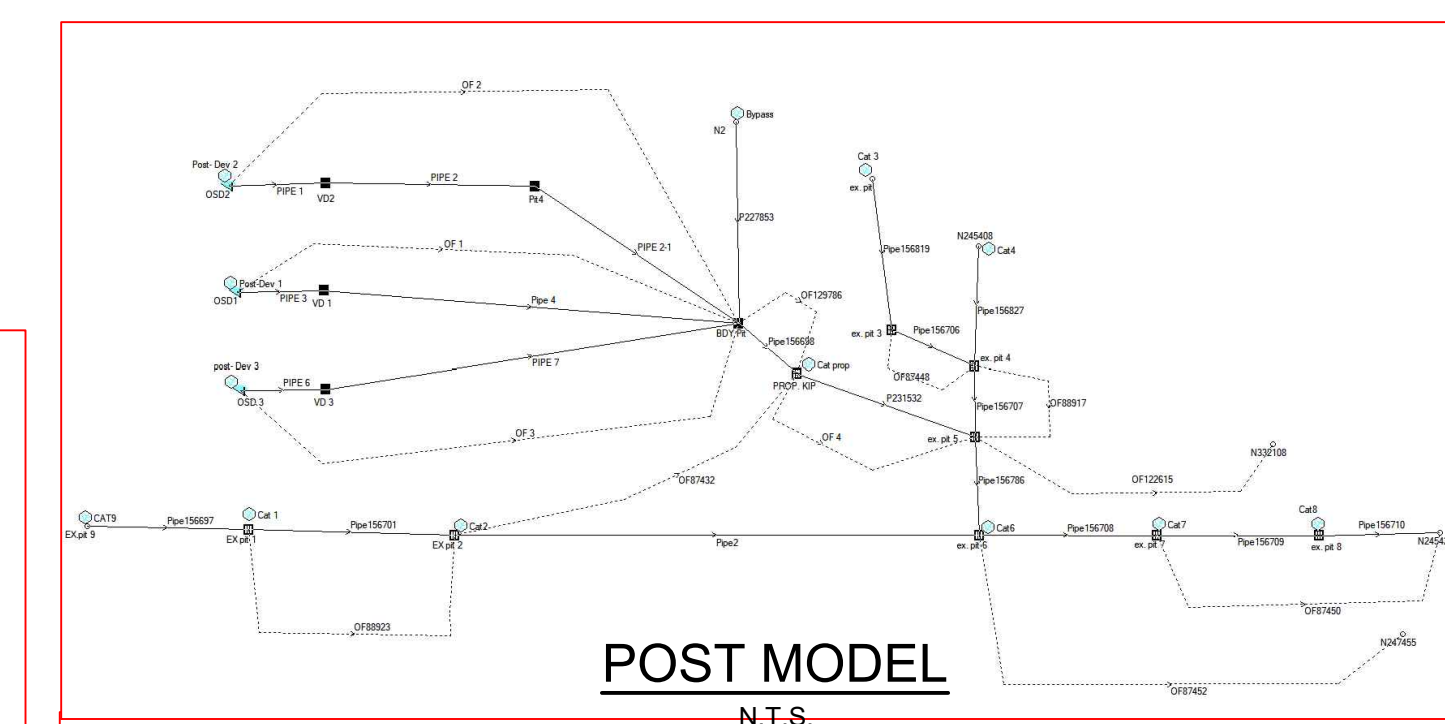
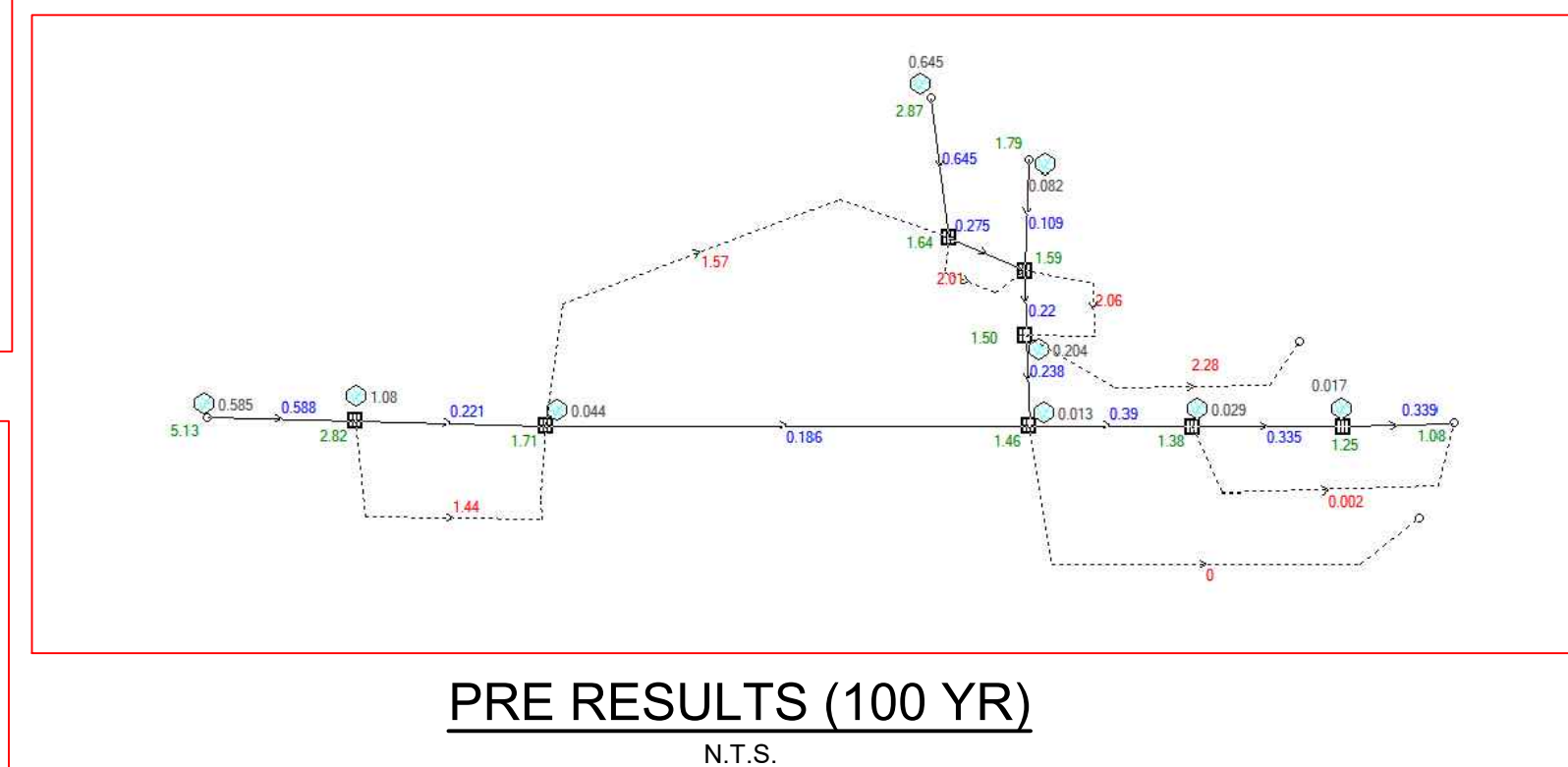
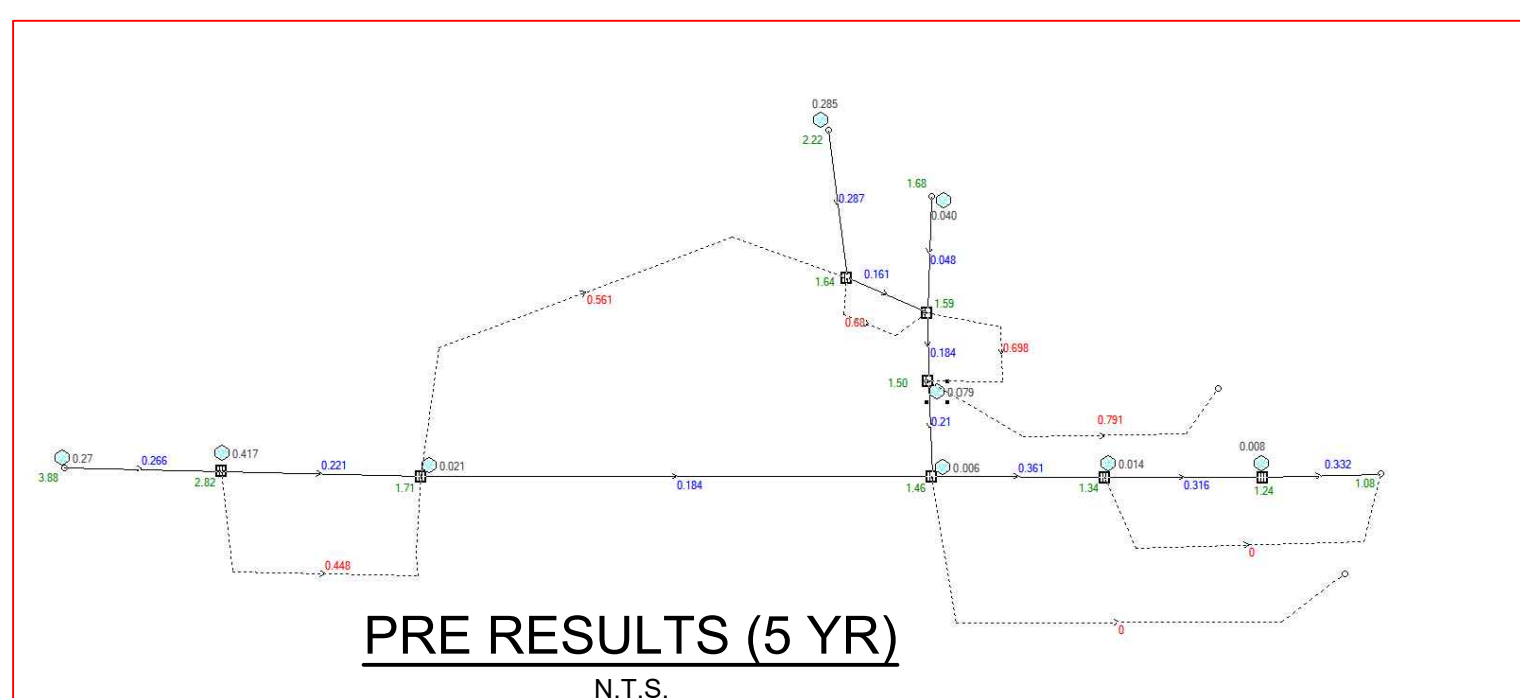
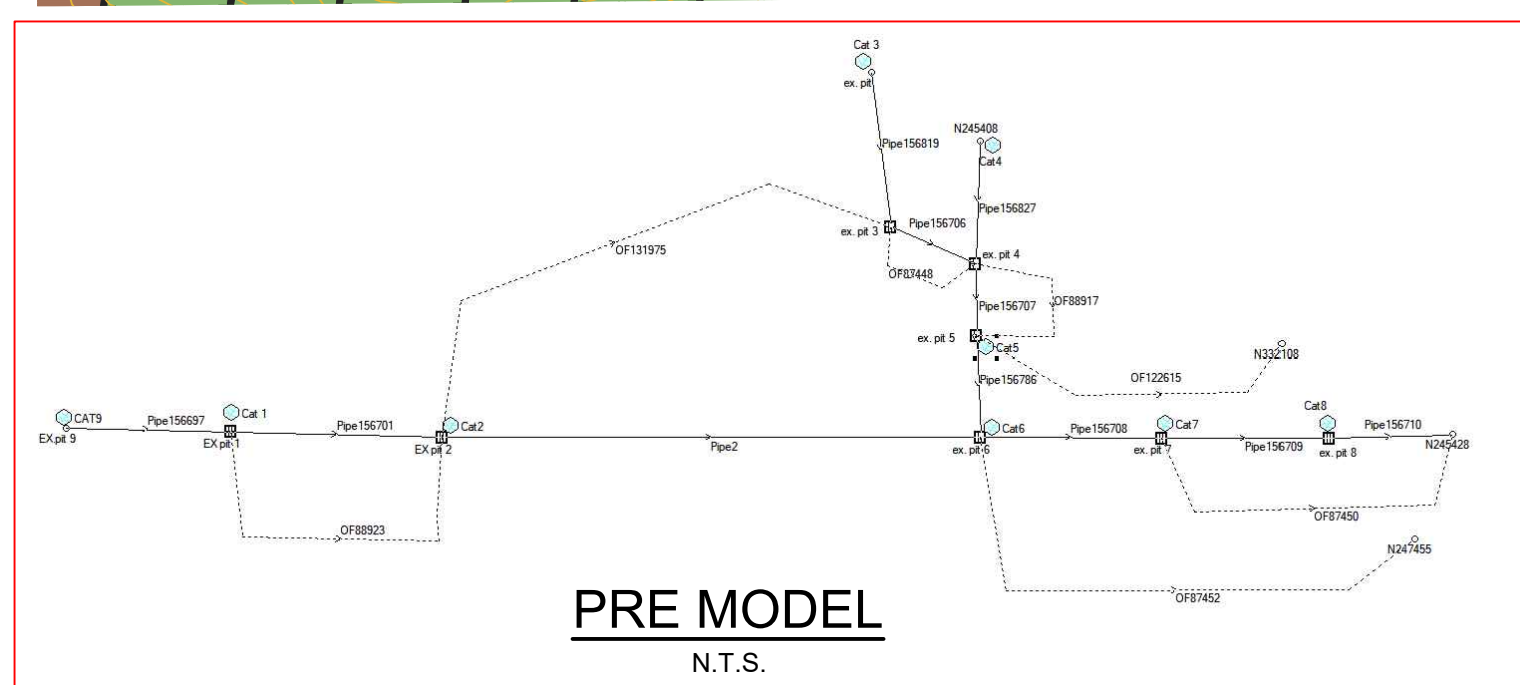


PRE CATCHMENT LEGEND

	EXISTING PIT 1 CATCHMENT = 19695.29m ²
	EXISTING PIT 2 CATCHMENT = 620.40m ²
	EXISTING PIT 3 CATCHMENT = 11301.20m ²
	EXISTING PIT 4 CATCHMENT = 1160m ²
	EXISTING PIT 5 CATCHMENT = 3714.82
	EXISTING PIT 6 CATCHMENT = 178.06m ²
	EXISTING PIT 7 CATCHMENT = 410.55m ²
	EXISTING PIT 8 CATCHMENT = 243.54m ²
	EXISTING PIT 9 CATCHMENT = 9993.60m ²

POST CATCHMENT LEGEND

	EXISTING PIT 1 CATCHMENT = 19695.29m ²
	EXISTING PIT 2 CATCHMENT = 620.40m ²
	EXISTING PIT 3 CATCHMENT = 6075.40m ²
	EXISTING PIT 4 CATCHMENT = 1160m ²
	EXISTING PIT 6 CATCHMENT = 321.68m ²
	EXISTING PIT 7 CATCHMENT = 410.55m ²
	EXISTING PIT 8 CATCHMENT = 243.54m ²
	EXISTING PIT 9 CATCHMENT = 9993.60m ²
	PROPOSED PIT CATCHMENT 8797.00m ²



NOT FOR CONSTRUCTION

Issue	Description	Date	Design	Checked
B	ISSUE FOR SECTION 4.55	17/10/2025	YKK	SBF
A	ISSUE FOR SECTION 4.55	01/05/2025	YKK	SBF

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Shire Council**

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SCALE 1:1000 @ A1

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Project
**20 HERADALE PARADE , BATEMANS BAY
PROPOSED RESIDENTIAL DEVELOPMENT
STORMWATER CONCEPT PLANS
SECTION 4.55**

Drawing Title
**CATCHMENT PLAN EXISTING/
PROPOSED SYSTEM**

Scale	A1	Project No.	Dwg. No.	Issue
As Shown		22500	111	B