

7-11 POCKLEY AVENUE, ROSEVILLE PROPOSED RESIDENTIAL FLAT BUILDING

STORMWATER CONCEPT PLANS

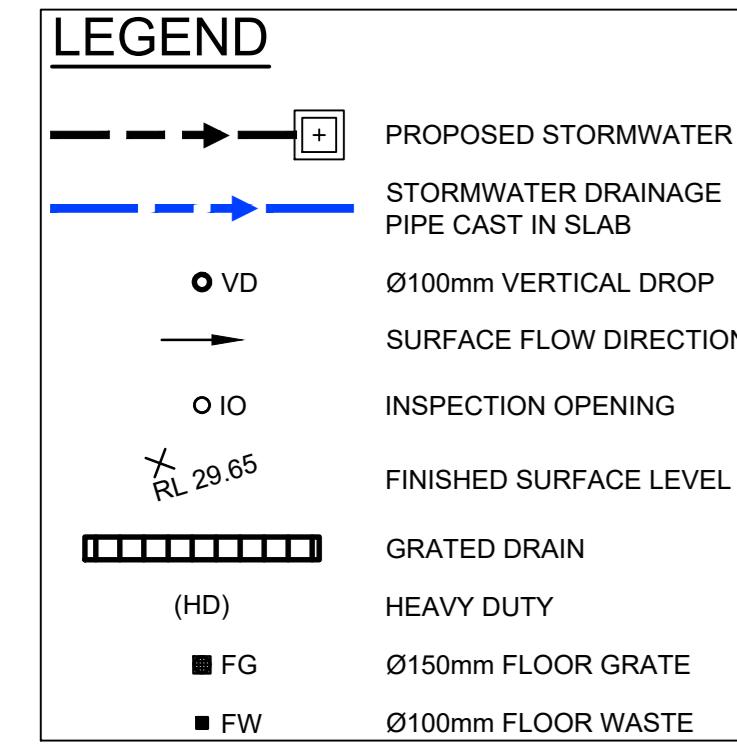


LOCALITY PLAN
N.T.S.

DRAWING INDEX	
Drawing No.	DESCRIPTION
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102	STORMWATER CONCEPT PLAN BASEMENT 2 SHEET 2 OF 2
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NOT FOR CONSTRUCTION

A	ISSUE FOR DEVELOPMENT APPLICATION	31/03/2025	EAB	SBF	Architect PLACE STUDIO Level 3, 100 The Strand, Neutral Bay, NSW 2089, Australia. NSW 2011. T 61 431 088 534 W www.PlaceStudio.com.au E Studio@PlaceStudio.com.au	Council Ku-Ring-Gai Council	Scale	Project 7-11 POCKLEY AVENUE, ROSEVILLE PROPOSED RESIDENTIAL FLAT BUILDING STORMWATER CONCEPT PLANS DEVELOPMENT APPLICATION	Drawing Title COVER SHEET PLAN
								Scale N.T.S. All Project No. 25035 Dwg. No. 000 Issue A	



NOTE:
AS PER KU-RING-GAI DEVELOPMENT
CONTROL PLAN, SECTION 24C.3
CONDITION 8: FOR DEVELOPMENT TYPES
A AND ABOVE, BASEMENTS ARE TO BE
FULLY TANKED.

PIPES NOTE:
065 PVC @ MIN 1.0%
090 PVC @ MIN 1.0%
0100 PVC @ MIN 1.0%
0150 PVC @ MIN 1.0%
0225 PVC @ MIN 0.5%
0300 PVC @ MIN 0.4%
UNLESS NOTED OTHERWISE

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

NOTE:
ALL LINEAR GRATED DRAINS TO BE
MIN. 100mm DEEP.

NOTE:
ALLOW BENCHING WITHIN
SPOON DRAIN TO ACHIEVE MIN
1.0% FALL TO FLOOR WASTES.

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

STANDARD PUMP OUT DESIGN NOTES

THE PUMP OUT SYSTEM SHALL BE DESIGNED 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 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 PROVIDED 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 PROVIDED 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 PARRAMATTA 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

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Issue Description	Issue Date	Design	Checked	

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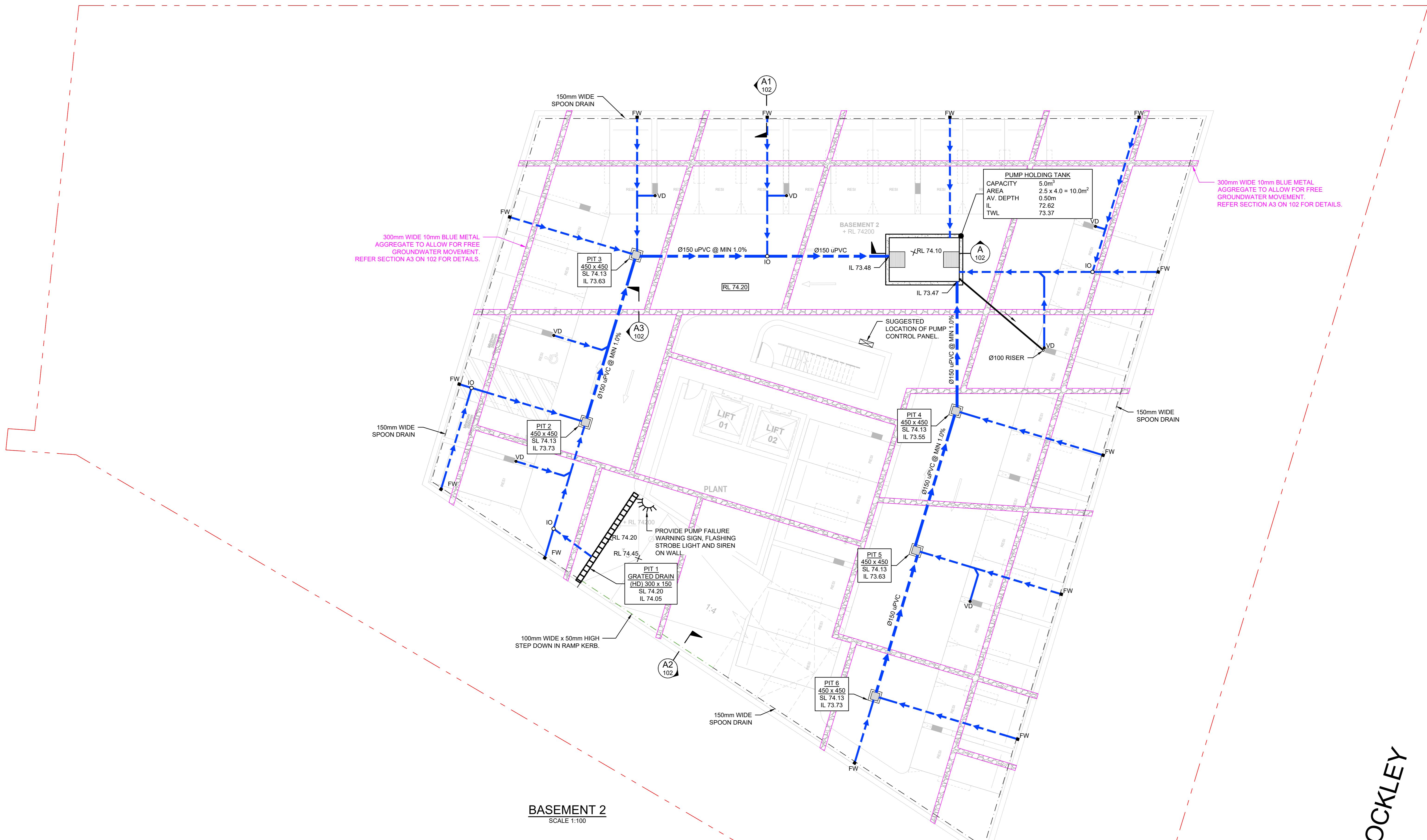
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Primo Real Estate

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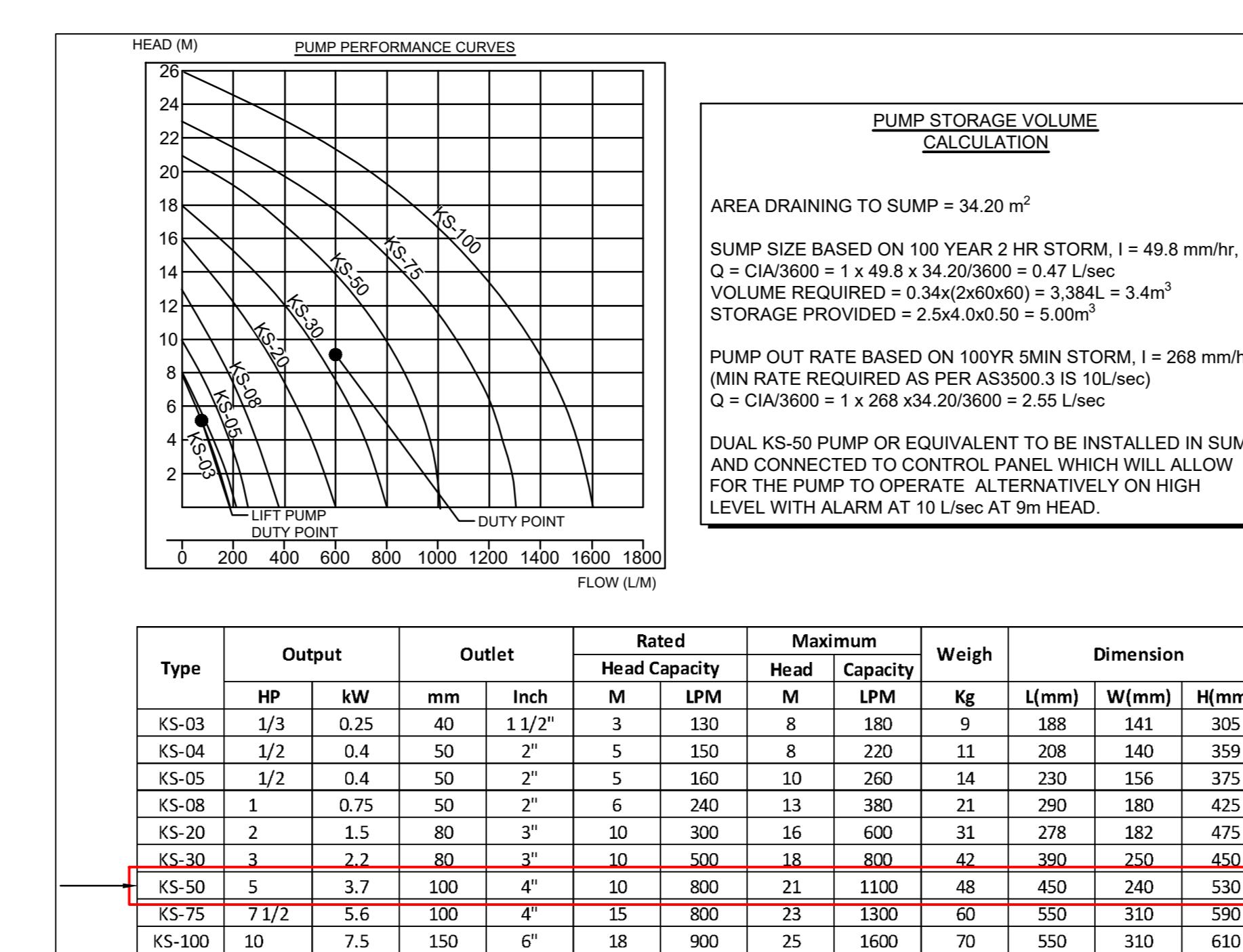
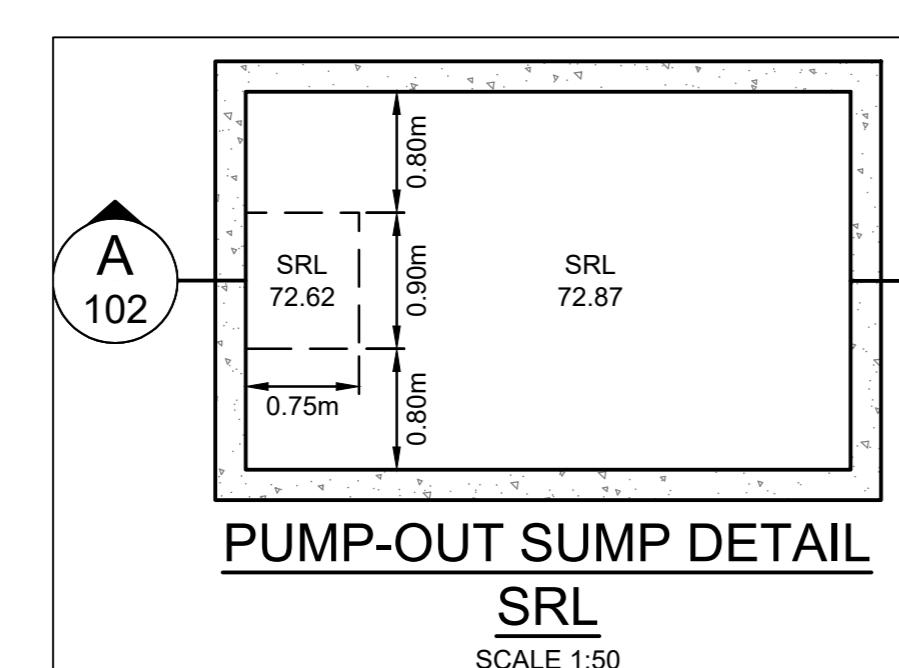
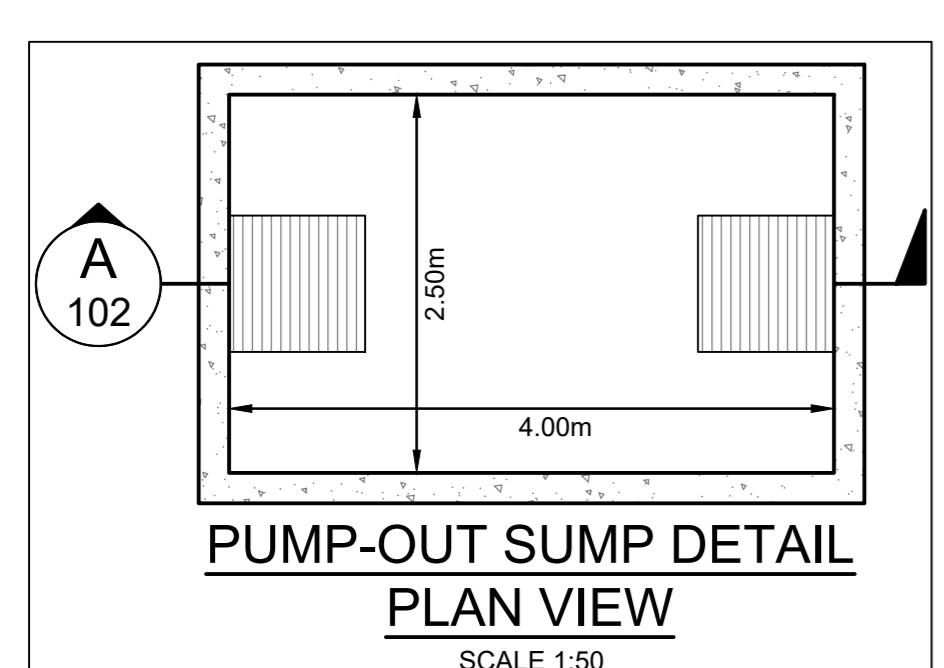
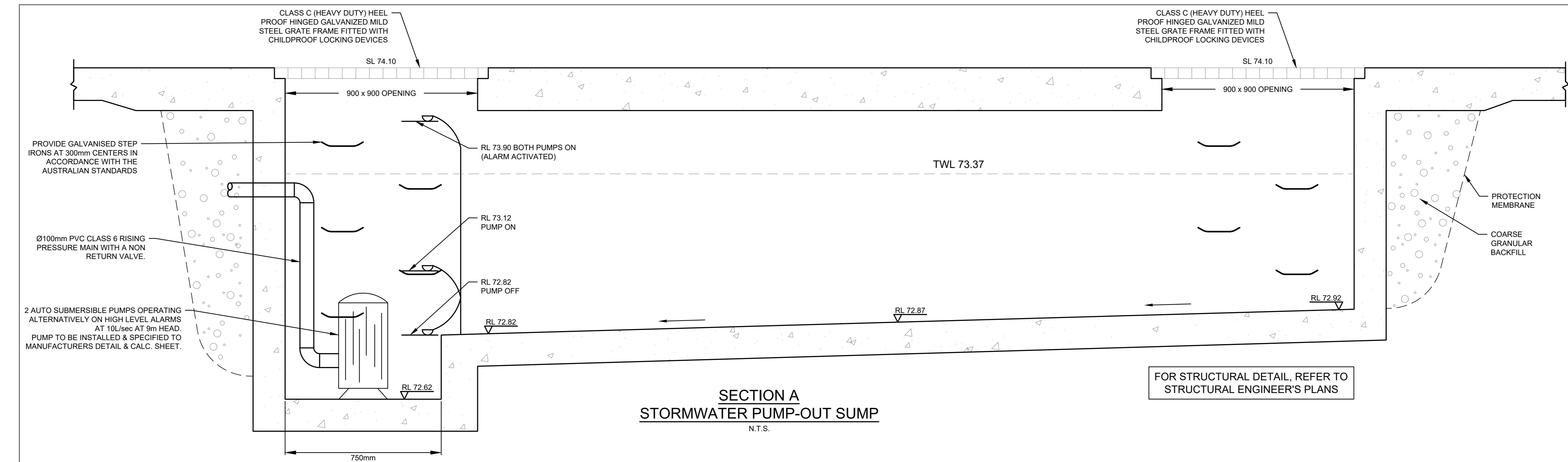
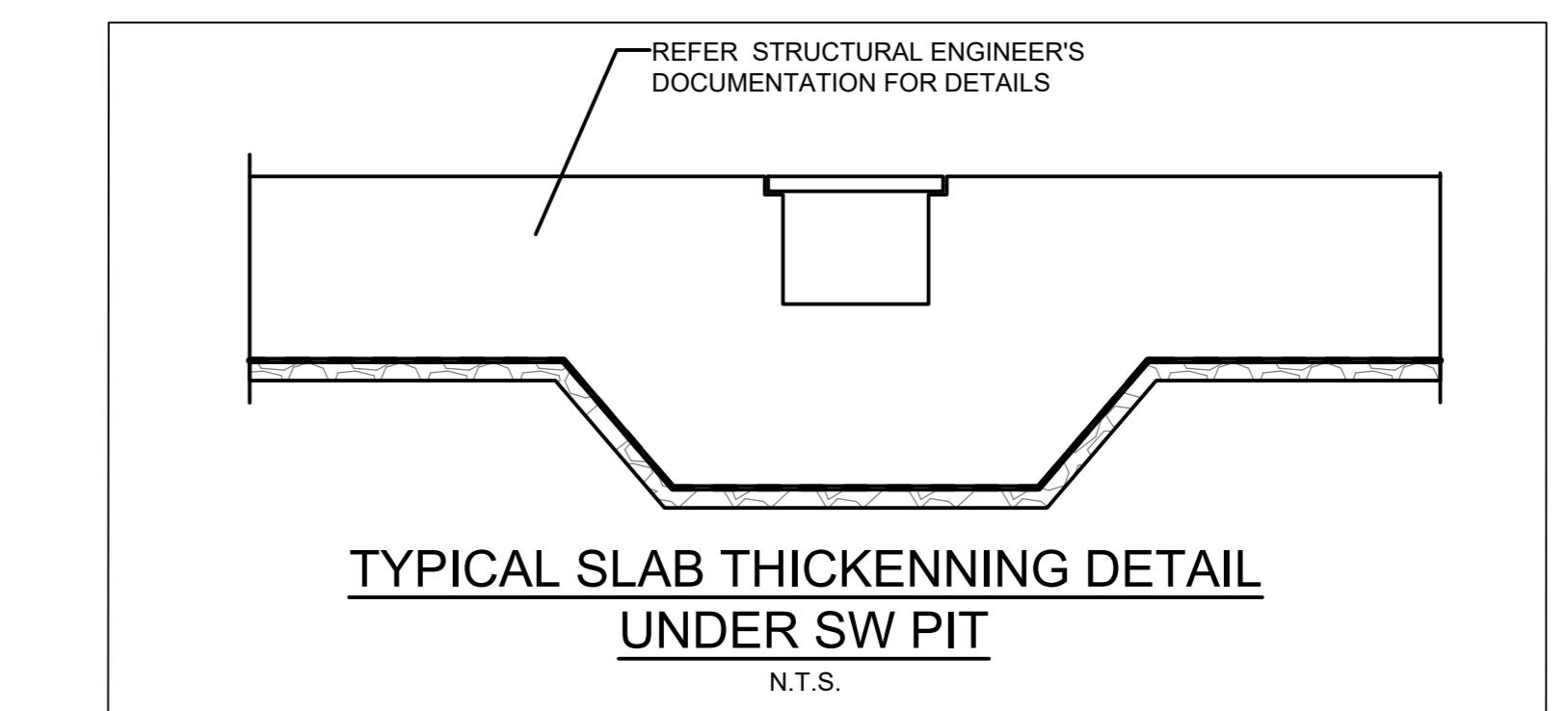
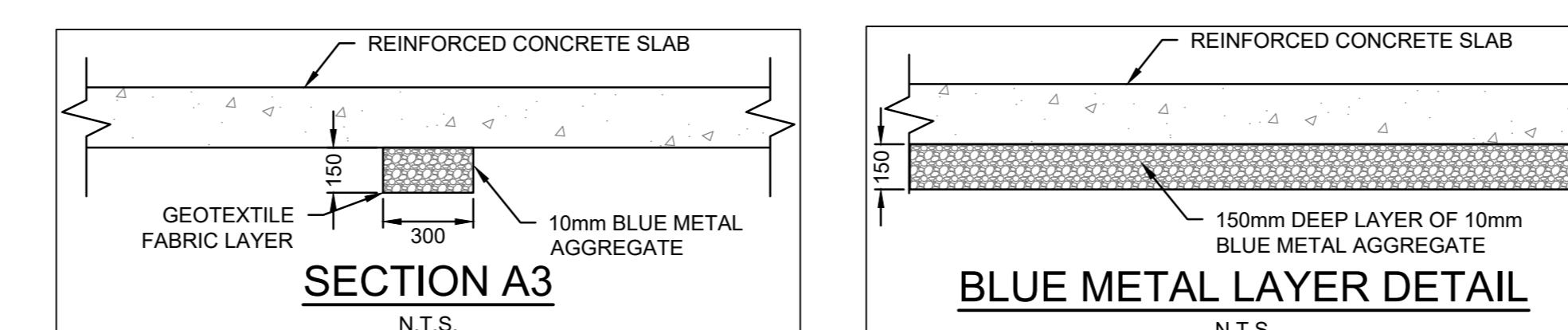
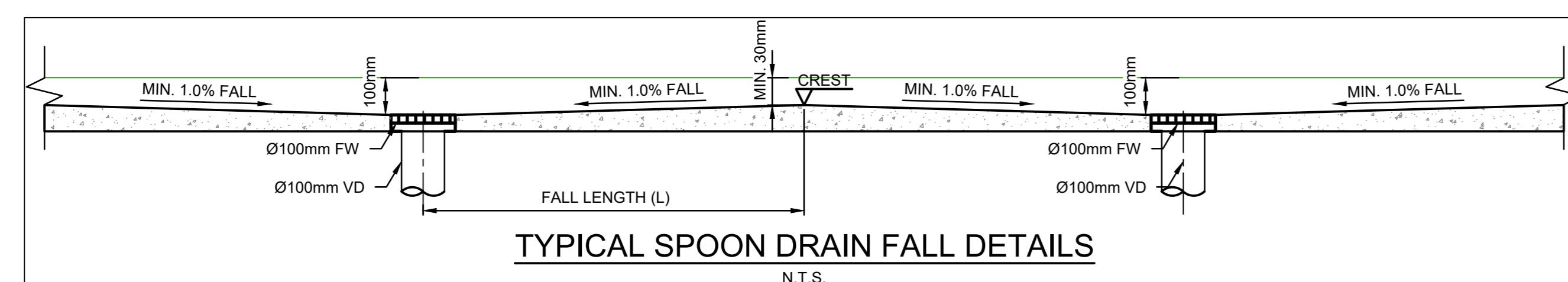
Project
7-11 POCKLEY AVENUE, ROSEVILLE
PROPOSED RESIDENTIAL FLAT BUILDING
STORMWATER CONCEPT PLANS
DEVELOPMENT APPLICATION

NOT FOR CONSTRUCTION
Drawing Title
STORMWATER CONCEPT PLAN
BASEMENT 2
SHEET 1 OF 2
Scale 1:100 Adj Project No. 25035 Dwg. No. 101 Issue A

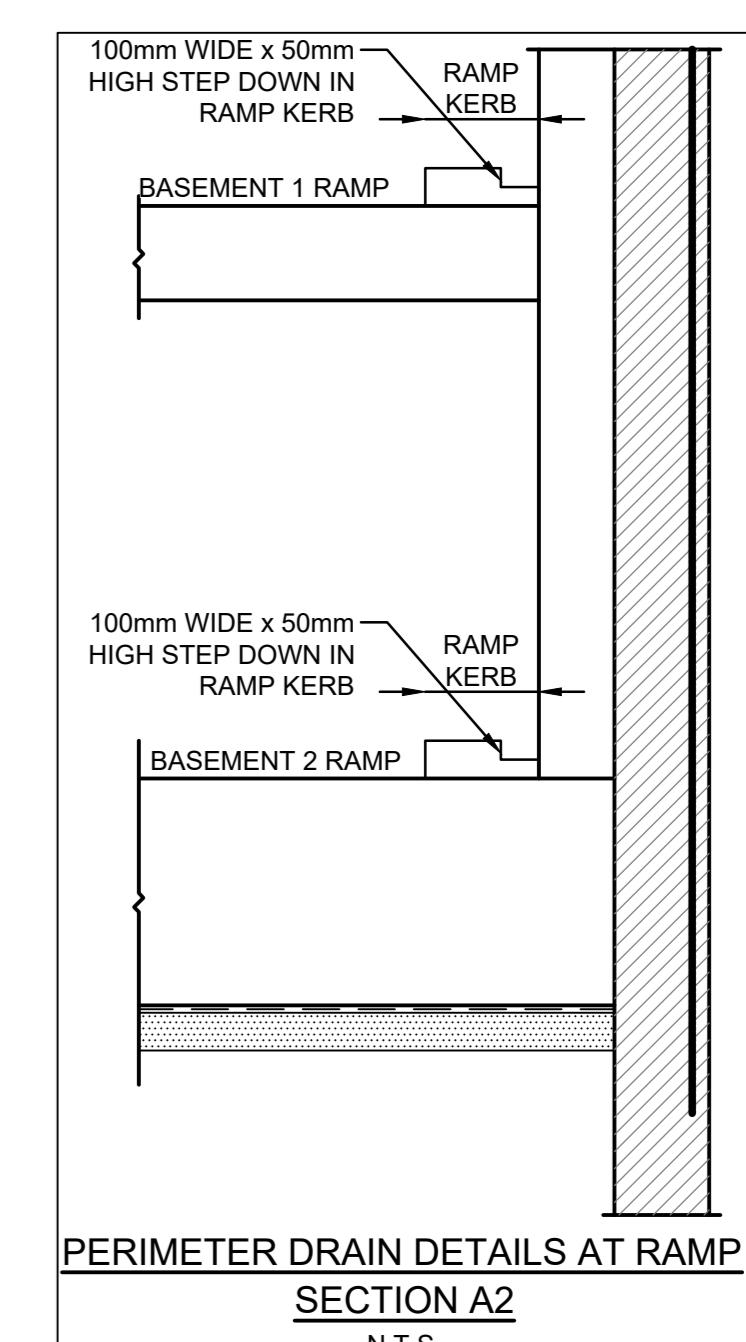
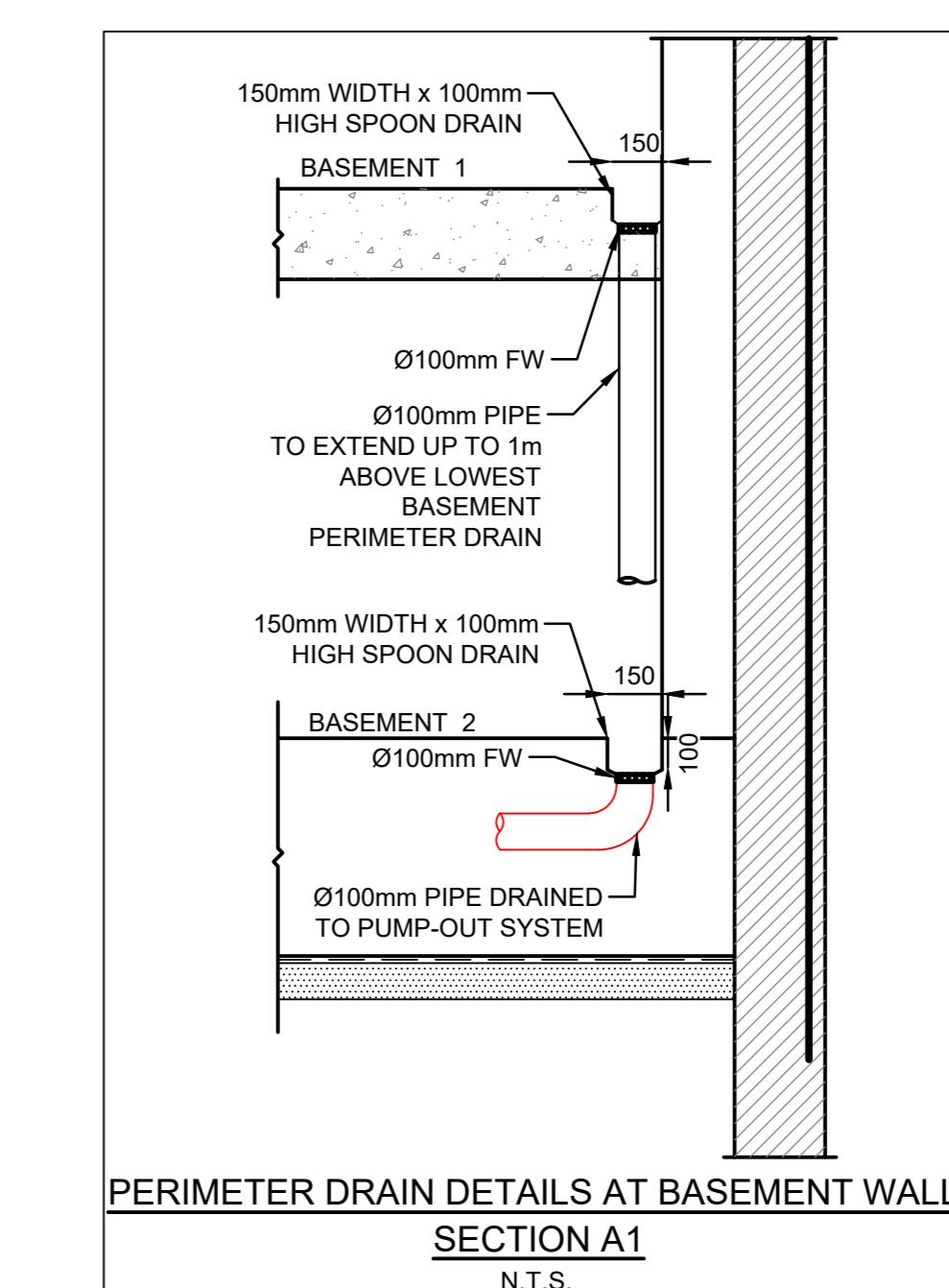
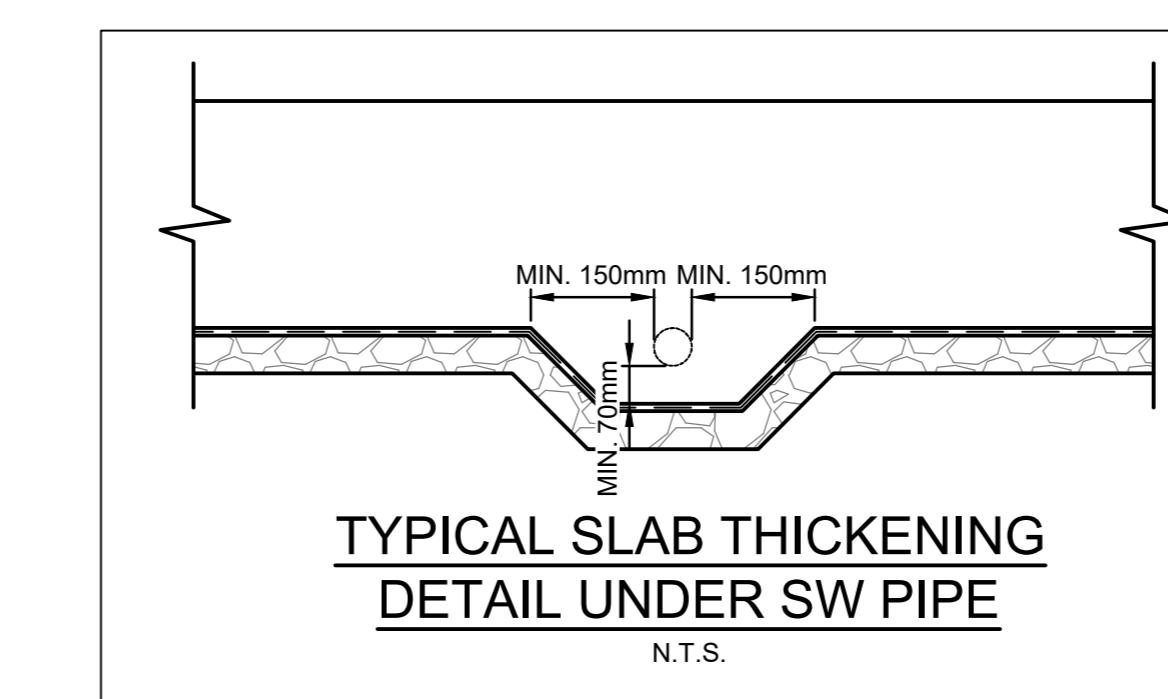


POCKLEY

AVENUE



Type	Output	Outlet	Rated Head Capacity	Maximum Head Capacity	Weight	Dimension						
	HP	kW	mm	inch	M	LPM	M	LPM	Kg	L(mm)	W(mm)	H(mm)
K5-03	1/3	0.25	40	1 1/2"	3	130	8	180	9	188	141	305
K5-04	1/2	0.4	50	2"	5	150	8	220	11	208	140	359
K5-05	1/2	0.4	50	2"	5	160	10	260	14	230	156	375
K5-08	1	0.75	50	2"	6	240	13	380	21	290	180	425
K5-20	2	1.5	80	3"	10	300	16	600	31	278	182	475
K5-30	3	2.2	80	3"	10	500	18	800	42	380	250	450
K5-50	5	3.7	100	4"	10	800	21	1100	48	450	240	530
K5-75	7 1/2	5.6	100	4"	15	800	23	1300	60	550	310	590
K5-100	10	7.5	150	6"	18	900	25	1600	70	550	310	610



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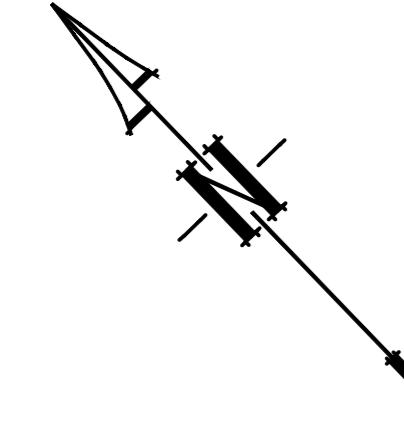
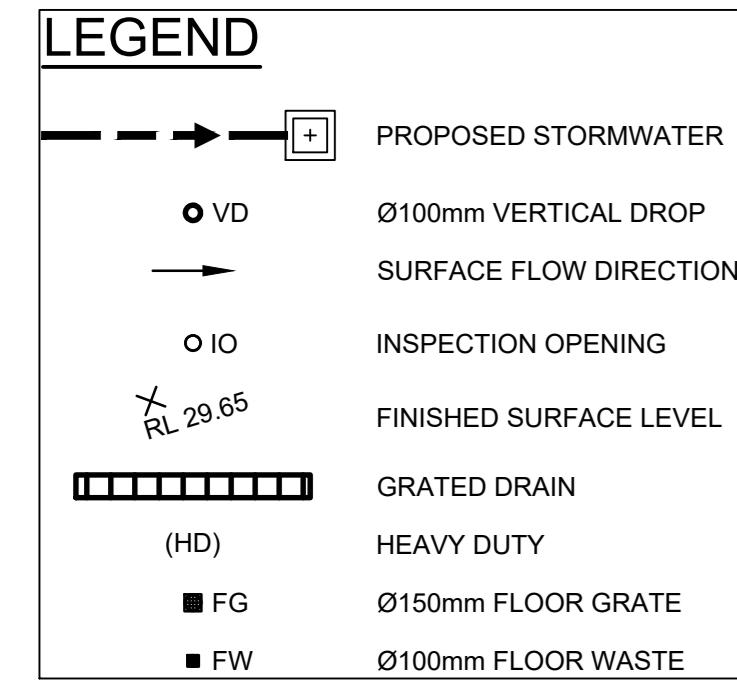
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Project
7-11 Pockley Avenue, Roseville
PROPOSED RESIDENTIAL FLAT BUILDING
STORMWATER CONCEPT PLANS
DEVELOPMENT APPLICATION

Drawing Title
STORMWATER CONCEPT PLAN
BASEMENT 2
SHEET 2 OF 2
Scale As Shown
Project No. 25035
Dwg. No. 102
Issue A



PIPES NOTE:
065 PVC @ MIN 1.0%
090 PVC @ MIN 1.0%
0100 PVC @ MIN 1.0%
0150 PVC @ MIN 1.0%
0225 PVC @ MIN 0.5%
0300 PVC @ MIN 0.4%
UNLESS NOTED OTHERWISE

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

NOTE:
ALL LINEAR GRATED DRAINS TO BE
MIN. 100mm DEEP.

NOTE:
ALLOW BENCHING WITHIN
SPOON DRAIN TO ACHIEVE MIN
1.0% FALL TO FLOOR WASTES.

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

POCKLEY
AVENUE

POCKLEY

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A	ISSUE FOR DEVELOPMENT APPLICATION	31/03/2025	EAB	SBF
Issue Description	Signature	Date	Design	Checked

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Project
7-11 POCKLEY AVENUE, ROSEVILLE
PROPOSED RESIDENTIAL FLAT BUILDING
STORMWATER CONCEPT PLANS
DEVELOPMENT APPLICATION

Drawing Title
STORMWATER CONCEPT PLAN
BASEMENT 1
Scale 1:100
All Project No. 25035
Dwg. No. 103
Issue A

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

NOTE:
 1. CONTRACTOR IS TO PROVIDE OVERFLOW OUTLETS & EMERGENCY OVERFLOW SPITTERS TO ALL TRAPPED AREAS.
 2. DP/VD ARE Ø100 PIPES U.N.O.
 3. ALL TRANSFERRING PIPES ARE SUSPENDED U.N.O.
 4. BALCONIES PIPES ARE Ø50mm HDPE OR PVC CAST IN SLAB AT MIN 1.0% SLOPE.

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

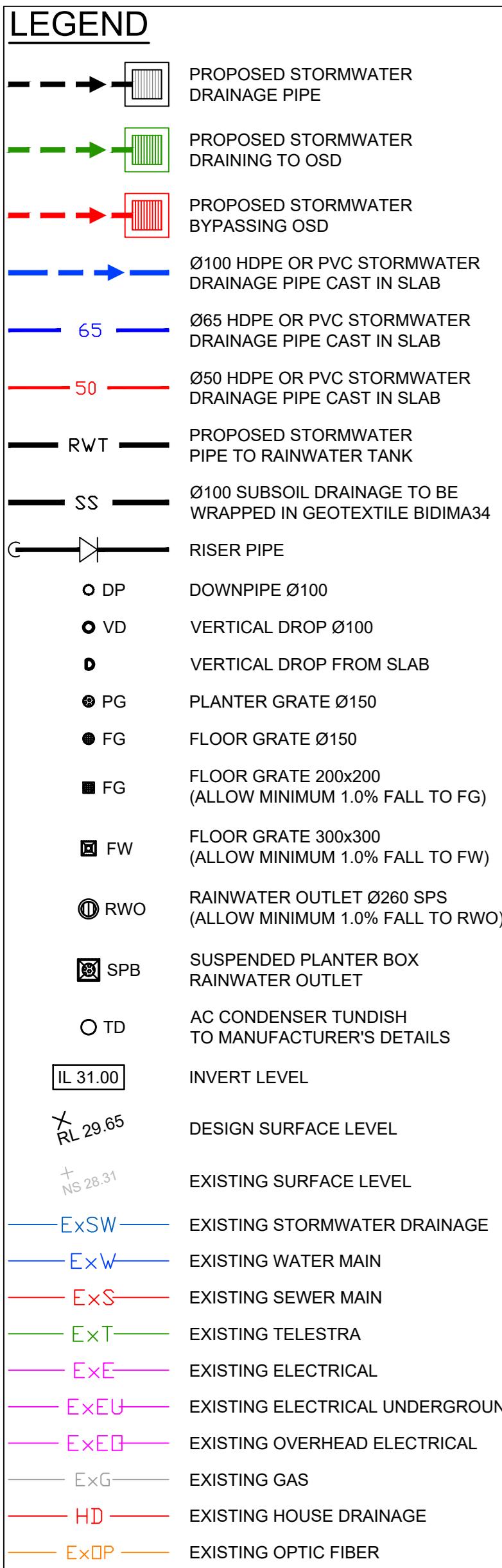
NOTE:
 ALL GRATES WITHIN FOOTWAY AREAS TO BE HEEL GUARD & BIKE SAFE.

NOTE:
 PITS DEEPER THAN 1.0M TO BE FITTED WITH STEP IRONS.

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

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

NOTE:
 ALL LINEAR GRATED DRAINS TO BE MIN. 100mm DEEP.



GENERAL NOTES

- ALL PIPES TO BE Ø65 PVC 1.0% GRADE UNLESS NOTED OTHERWISE, CHARGED LINES TO BE SLEVERGRADE & SEALER.
- 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 PITS IN LANDSCAPED AREAS TO 750x750 PLASTER.
- PITS LESS THAN 800mm 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 DPPS TO BE 100mm.
- ALL 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.2000.
- REFERS TO PROPOSED 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 PVC CAST IN CONCRETE SLAB. CONTRACTOR TO PROVIDE A BREAK / OPEN VENT IN RAIL/BALUSTRADE FOR STOPPING OVERFLOWS. ALL ENCLOSED AREAS/PLANTER BOXES TO BE FITTED WITH FLOOR WASTES & DRAINS 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 TO BE DONE UNDER CONSULTATIONS 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.



NOTE:
 ALL NON-TRAFFICABLE AREAS DRAINAGE SYSTEM IN UPPER LEVELS IS SUBJECT TO DETAILED DESIGN STAGE & TO BE CONNECTED TO THE UNDERGROUND RAINWATER TANK.

ALL TRAFFICABLE AREAS DRAINAGE SYSTEM IN UPPER LEVELS IS SUBJECT TO DETAILED DESIGN STAGE & TO BE CONNECTED TO THE UNDERGROUND WSUD TANK.

LOWER GROUND FLOOR PLAN

SCALE 1:100

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Issue Description		Date	Design	Checked

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Council
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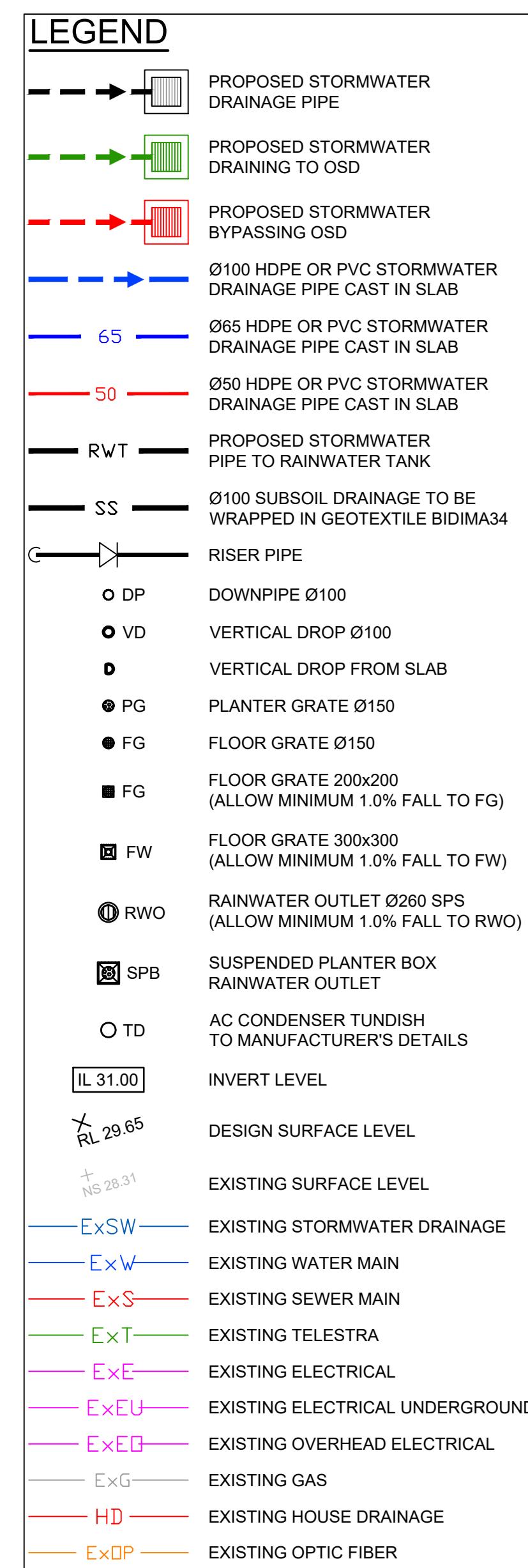
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 CONSULTING CIVIL & STORMWATER ENGINEERS

Project
 7-11 POCKLEY AVENUE, ROSEVILLE
 PROPOSED RESIDENTIAL FLAT BUILDING
 STORMWATER CONCEPT PLANS
 DEVELOPMENT APPLICATION

Drawing Title
 STORMWATER CONCEPT PLAN
 LOWER GROUND LEVEL


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 Dwg. No. 104
 Issue A



GENERAL NOTES

- ALL PIPES TO BE Ø900 PVC 1.0% GRADE UNLESS NOTED OTHERWISE. CHARGED LINES TO BE SWERGRAD & 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 PIPE TO HAVE MIN 150mm COVER IF LOCATED WITHIN PROPERTY.
- ALL PITS IN DRIVEWAYS TO BE 450x450 CONCRETE AND PITS IN LANDSCAPED AREAS TO BE BRICK OR PLASTER.
- PITS LESS THAN 800mm 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 BE 100mm.
- ALL LEVELING 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.3900.3.
- REFER TO THE APPROPRIATE 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 PVC CAST IN CONCRETE SLAB. CONTRACTOR TO PROVIDE A BREAK / OPEN VENT IN RAIL / BALUSTRADE FOR STORMWATER DRAINAGE. ALL ENCLOSED AREAS/PLANTER BOXES TO BE FITTED WITH FLOOR WASTES & DRAINS 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.

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:
 1. CONTRACTOR IS TO PROVIDE OVERFLOW OUTLETS & EMERGENCY OVERFLOW SPITTERS TO ALL TRAPPED AREAS.
 2. DP/VD ARE Ø100 PIPES U.N.O.
 3. ALL TRANSFERRING PIPES ARE SUSPENDED U.N.O.
 4. BALCONIES PIPES ARE Ø50mm HDPE OR PVC CAST IN SLAB AT MIN 1.0% SLOPE.

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

NOTE:
 ALL GRATES WITHIN FOOTPATH AREAS TO BE HEEL GUARD & BIKE SAFE.

NOTE:
 PITS DEEPER THAN 1.0m TO BE FITTED WITH STEP IRONS.
 ALL UPPER LEVELS DRAINAGE SYSTEM TO BE CONNECTED TO WSUD, SUBJECT TO DETAILED DESIGN STAGE.

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

NOTE:
 ALL LINEAR GRATED DRAINS TO BE MIN. 100mm DEEP.

NOT FOR CONSTRUCTION

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Ku-Ring-Gai Council
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Scale

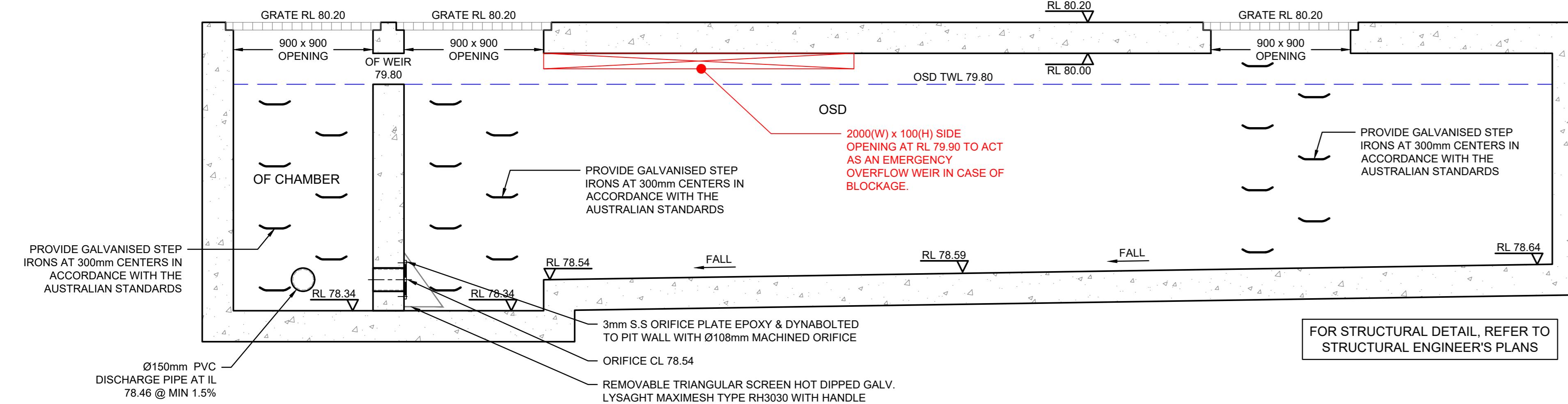
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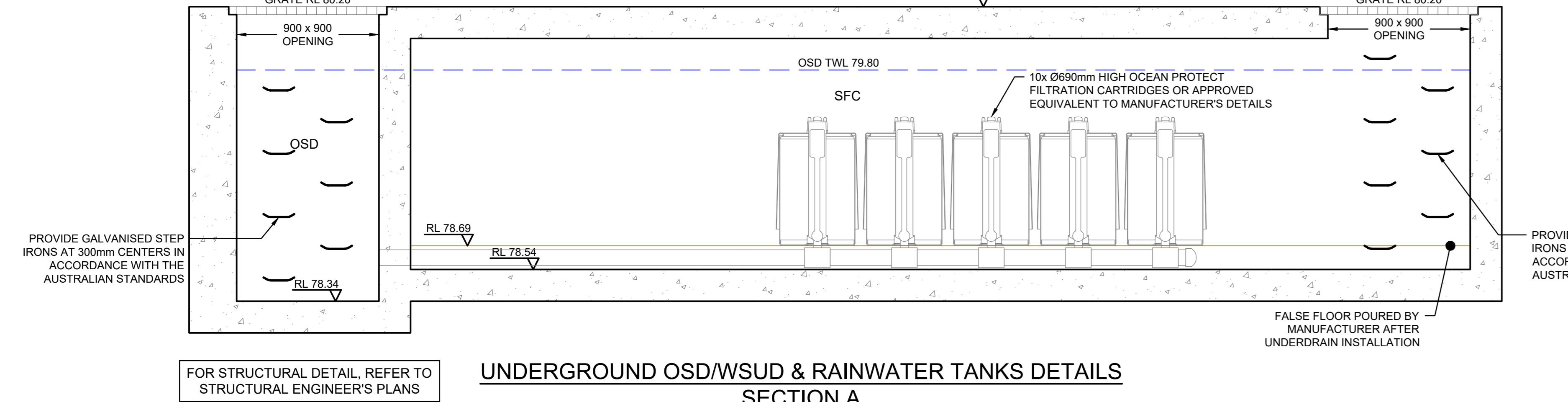
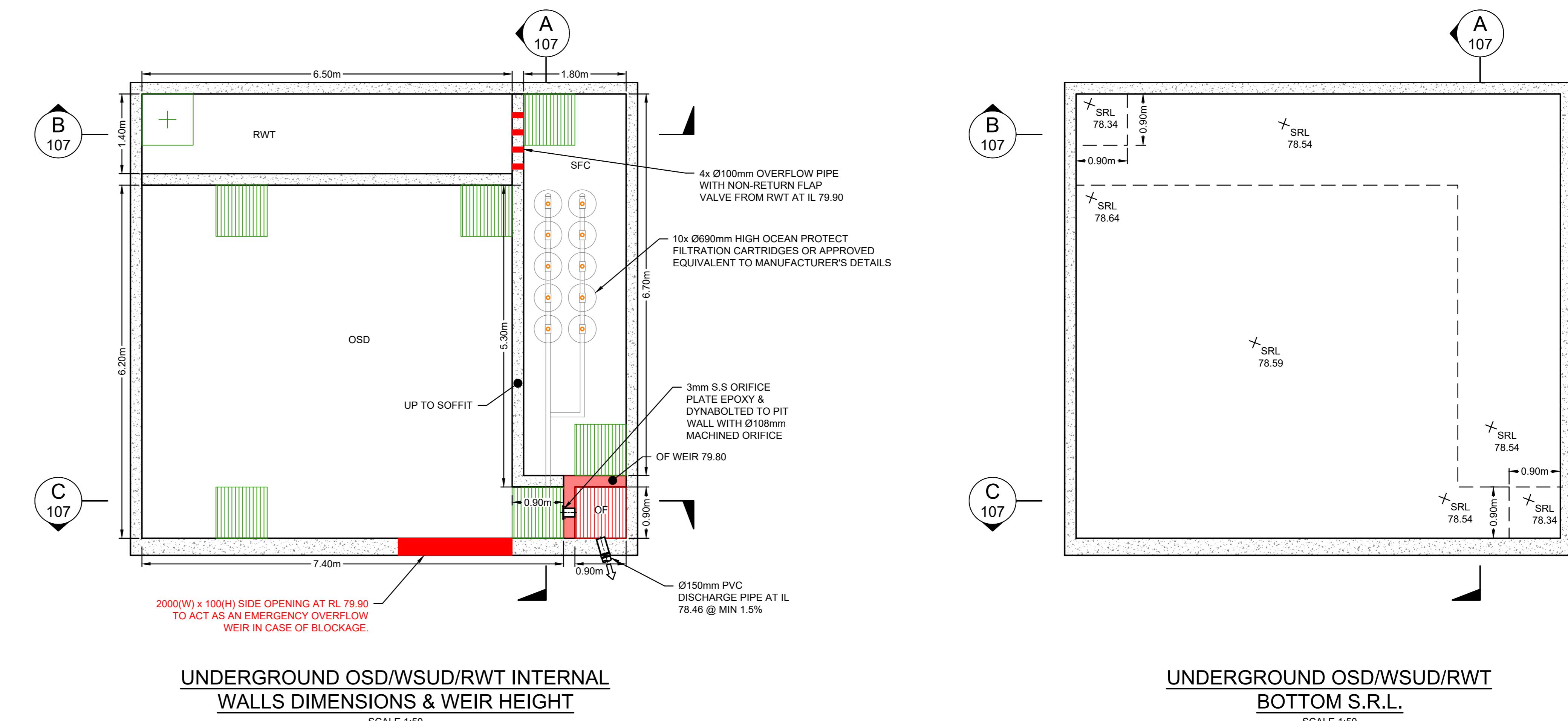
Project
7-11 Pockley Avenue, Roseville
PROPOSED RESIDENTIAL FLAT BUILDING
STORMWATER CONCEPT PLANS
DEVELOPMENT APPLICATION

Drawing Title
STORMWATER CONCEPT PLAN
LEVEL 01

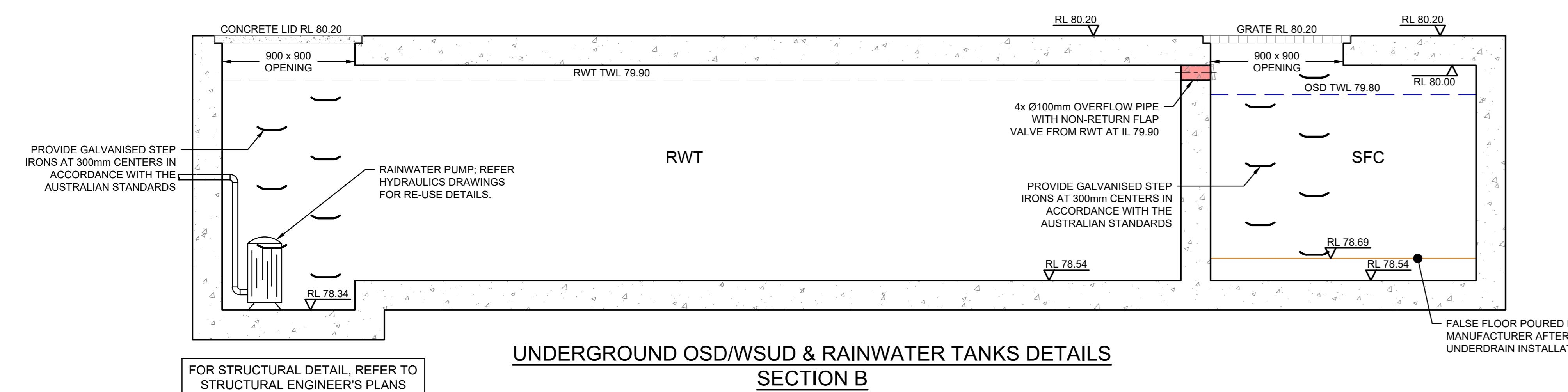
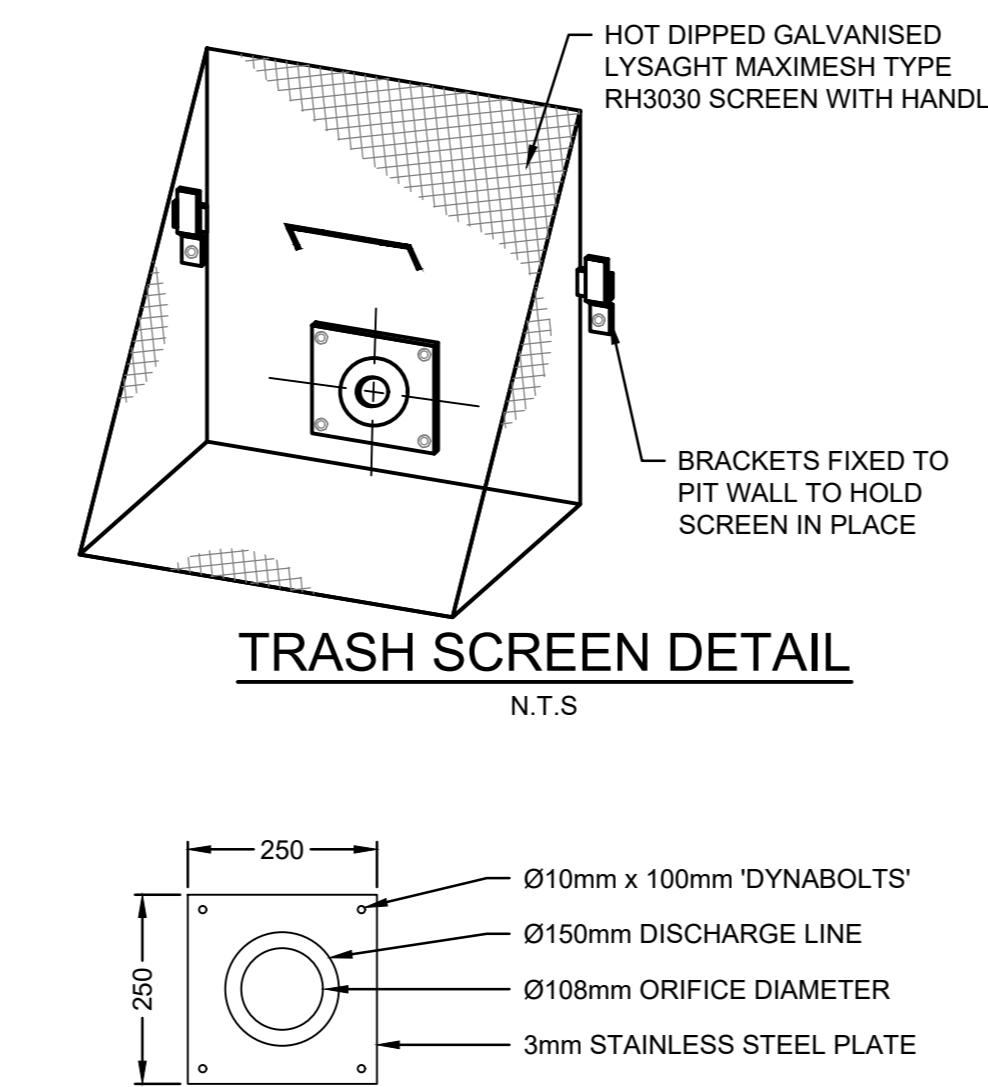
Scale 1:100 All Project No: 25035 Dwg. No: 106 Issue A



UNDERGROUND OSD/WSUD & RAINWATER TANKS DETAILS
SECTION C



UNDERGROUND OSD/WSUD & RAINWATER TANKS DETAILS
SECTION A



UNDERGROUND OSD/WSUD & RAINWATER TANKS DETAILS
SECTION B

ORIFICE PLATE DETAIL

Project	PROPOSED RESIDENTIAL FLAT BUILDING	
Address	7-11 POCKLEY AVENUE, ROSEVILLE	
Job No.	25035	
Designer	EAB	
Catchment Detail		
Catchment Area Code	BG1	Catchment Discharge Rate 0.0147 l/sec/m ² Catchment Storage Rate 0.0287 m ³ /m ²
Site Details		
Site Area	3098.0 m ²	
60% of Site Area	1859 m ²	
Area not Draining to the Detention System	438 m ²	
Total Impervious Area (roofs, driveway, paving etc)	1556 m ²	
Impervious area bypassing detention system	0 m ²	
Permitted Site Discharge		
Flow 1	27.32 l/sec	
Adjustment for uncontrolled impervious flow	0.00 (<0.25)	
Adjusted flow	Flow 2 0.00 l/sec	
Final Permitted Site Discharge		
	27.32 l/sec	
Site Storage Requirement		
Landscaped surface OSD basin?	53.35 m ³	
Adjustment factor for Landscaped surface basin:	1.00	
Adjustment for Landscaped surface basin	53.35 m ³	
Surface Area	53.17 m ²	
Average depth of water	1.19 m	
Provided Volume of Storage= Surface Area X Average depth of water	63.06 m ³	
Volume > than Required	1.26 m	
Orifice Diameter		
	108 mm	

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A	ISSUE FOR DEVELOPMENT APPLICATION	31/03/2025	EAB	SBF
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Scale

0 200 400 600mm
0 400 800 1200 mm
0 100 200 300 m
0 150 300 600 m

TELFORD CIVIL
CONSULTING CIVIL & STORMWATER ENGINEERS

Project

7-11 POCKLEY AVENUE, ROSEVILLE
PROPOSED RESIDENTIAL FLAT BUILDING
STORMWATER CONCEPT PLANS
DEVELOPMENT APPLICATION

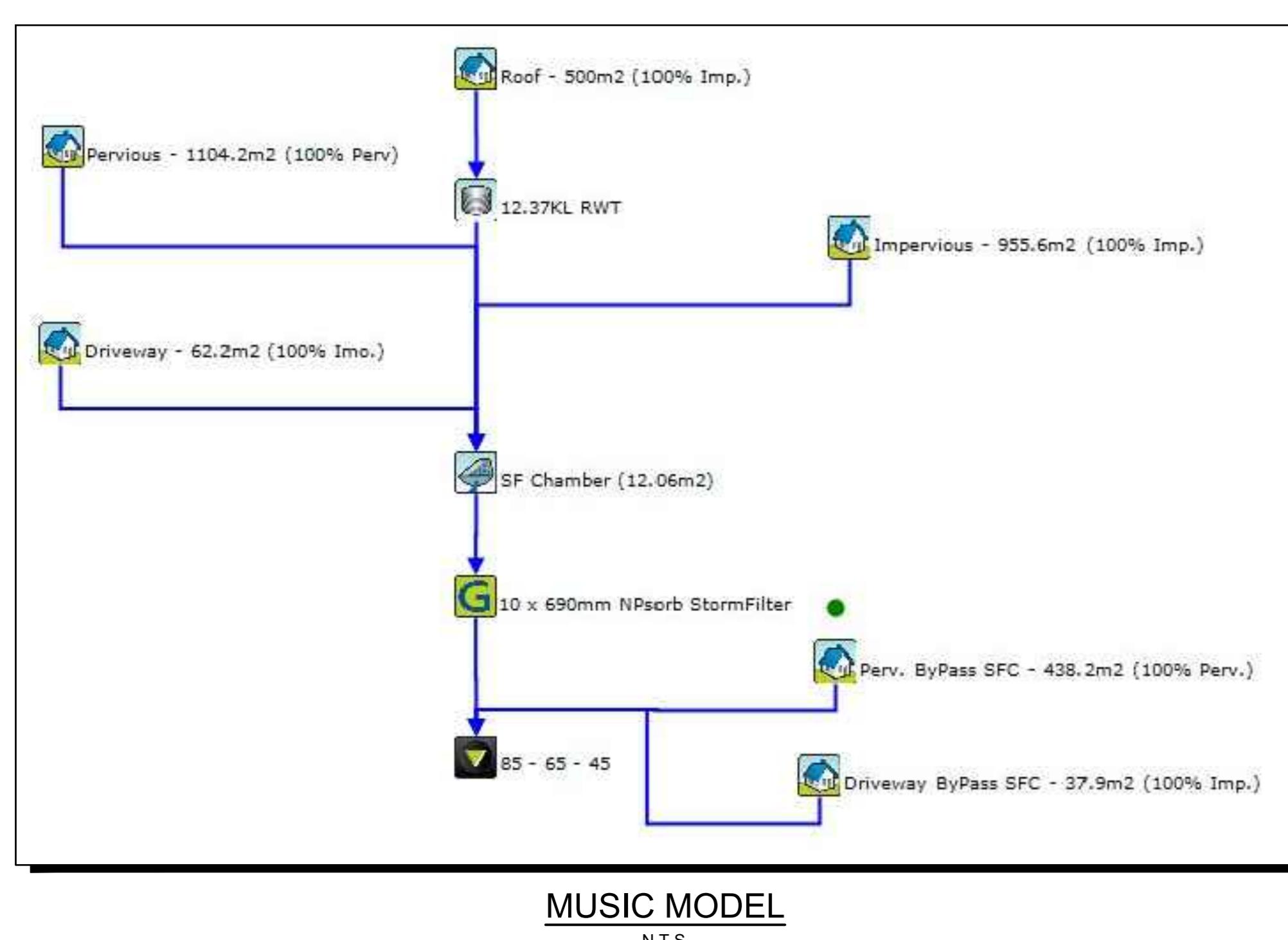
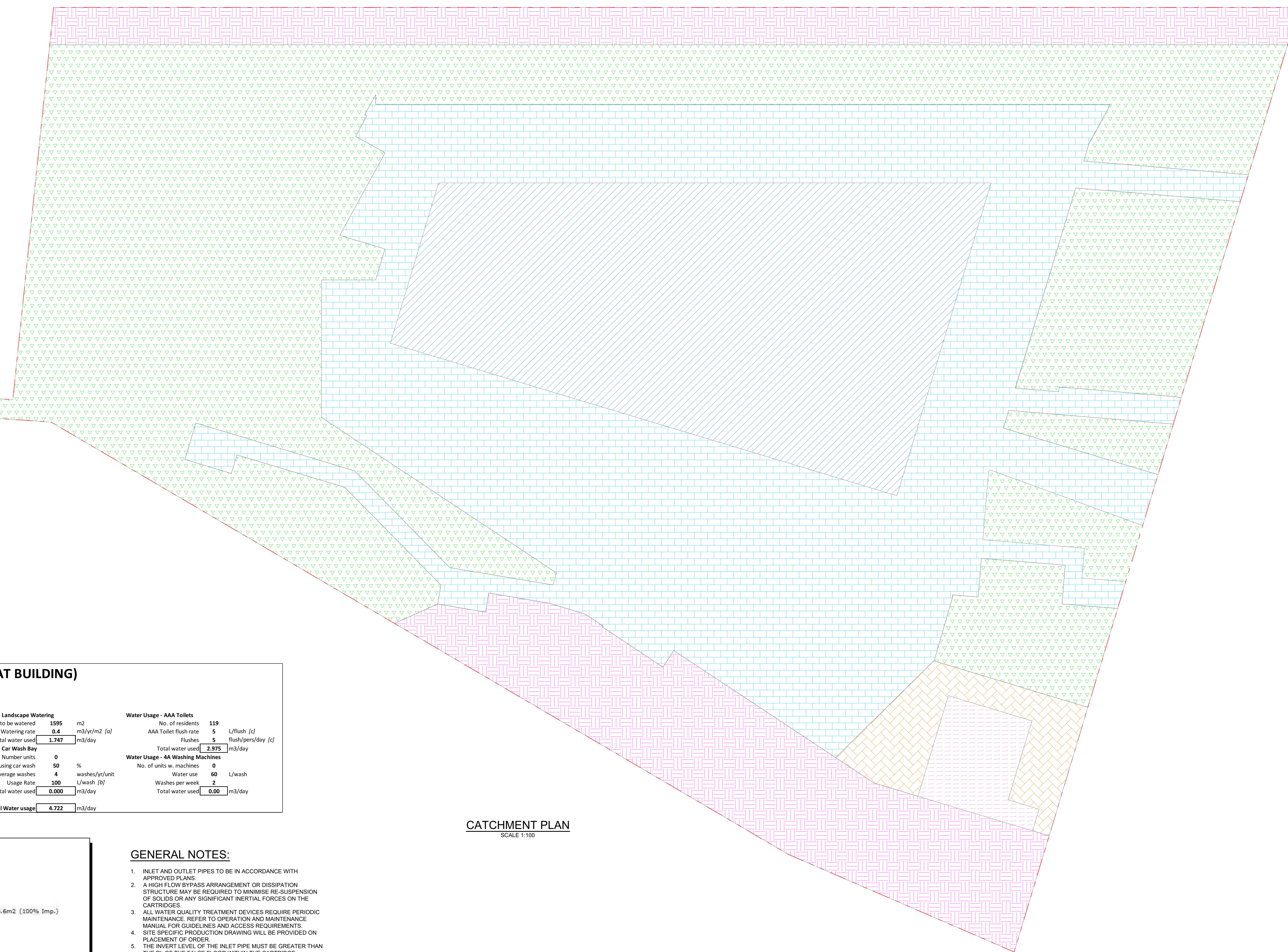
Drawing Title
ON-SITE DETENTION DETAILS
AND CALCULATIONS

Scale All Project No. 25035

Dwg. No. 107 Issue A

CATCHMENT LEGEND

	ROOF AREA TO RWT THEN TO SFC = 500.0m ²
	IMPERVIOUS AREA TO SFC = 955.6m ²
	PERVIOUS AREA TO SFC = 1104.1m ²
	DRIVEWAY TO SFC = 62.2m ²
	PERVIOUS AREA BYPASSING SFC = 438.2m ²
	DRIVEWAY BYPASSING SFC = 37.9m ²
	TOTAL SITE AREA = 3098 m ²
	TOTAL AREA TO SFC = 2,621.9 m ² (84.63% OF TOTAL SITE AREA)
	TOTAL BYPASS AREA = 476.1m ² (100% PERVIOUS)



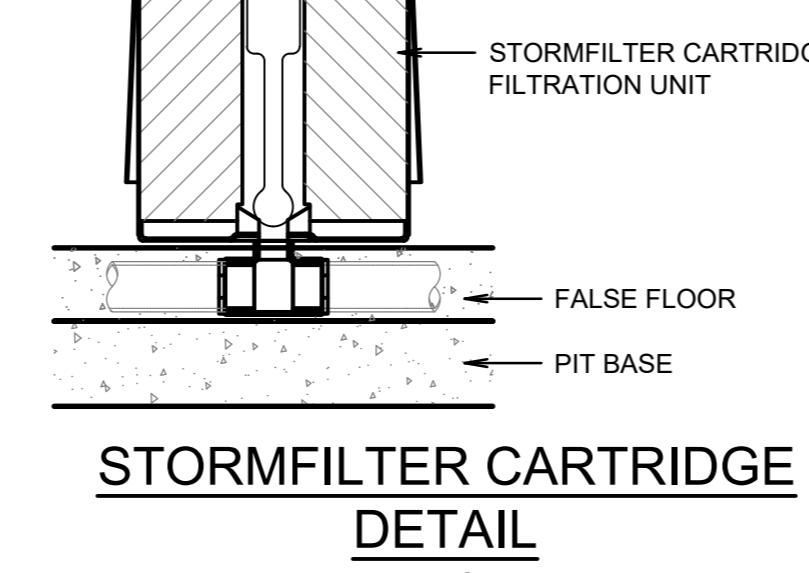
GENERAL NOTES:

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 CARTRIDGE.
3. ALL WATER QUALITY TREATMENT DEVICES REQUIRE PERIODIC MAINTENANCE, REFER TO OPERATION AND MAINTENANCE MANUAL FOR DETAILED 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 INVERT 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 mm APPROXIMATELY. CONCRETE 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)	2046	1.72	15.93
Total Suspended Solids (kg/yr)	292.2	43.32	85.18
Total Phosphorus (kg/yr)	0.6612	0.1348	79.62
Total Nitrogen (kg/yr)	5.286	2.241	57.61
Gross Pollutants (kg/yr)	41.02	0.9994	97.56

MUSIC RESULTS

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	Floating 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

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A	ISSUE FOR DEVELOPMENT APPLICATION	31/03/2025	EAB	SBF
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Scale

0 2 4 6m
SCALE 1:100 @ A0


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7-11 Pockley Avenue, Roseville
PROPOSED RESIDENTIAL FLAT BUILDING
STORMWATER CONCEPT PLANS
DEVELOPMENT APPLICATION

Drawing Title
CATCHMENT PLAN AND
MUSIC RESULTS

Scale As Shown
Project No. 25035
Dwg. No. 108
Issue A



A	ISSUE FOR DEVELOPMENT APPLICATION	31/03/2025	EAB	SBF
Issue Description		Date	Design	Checked

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 Council

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Scale

0 2 4 6 m
 SCALE 1:100 @ A0

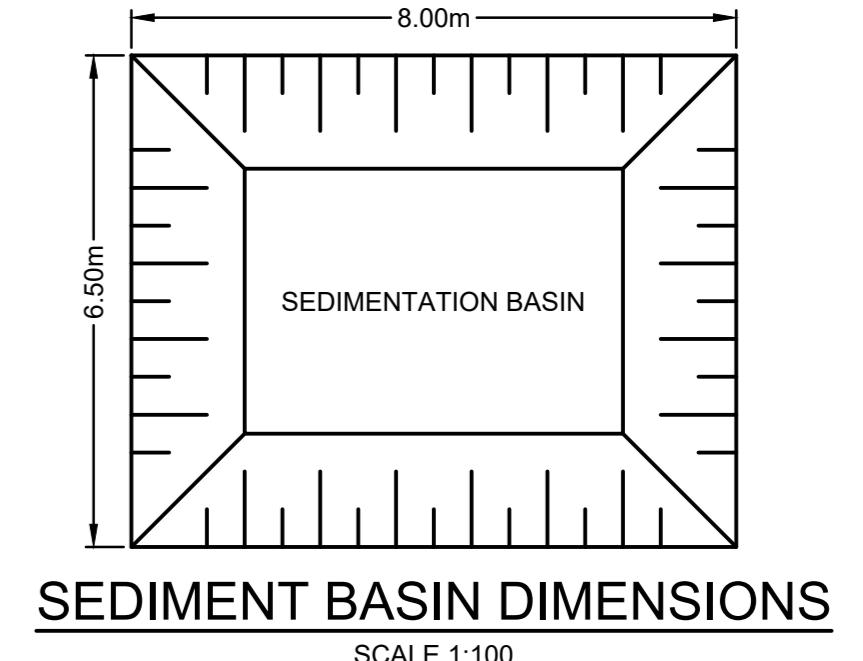
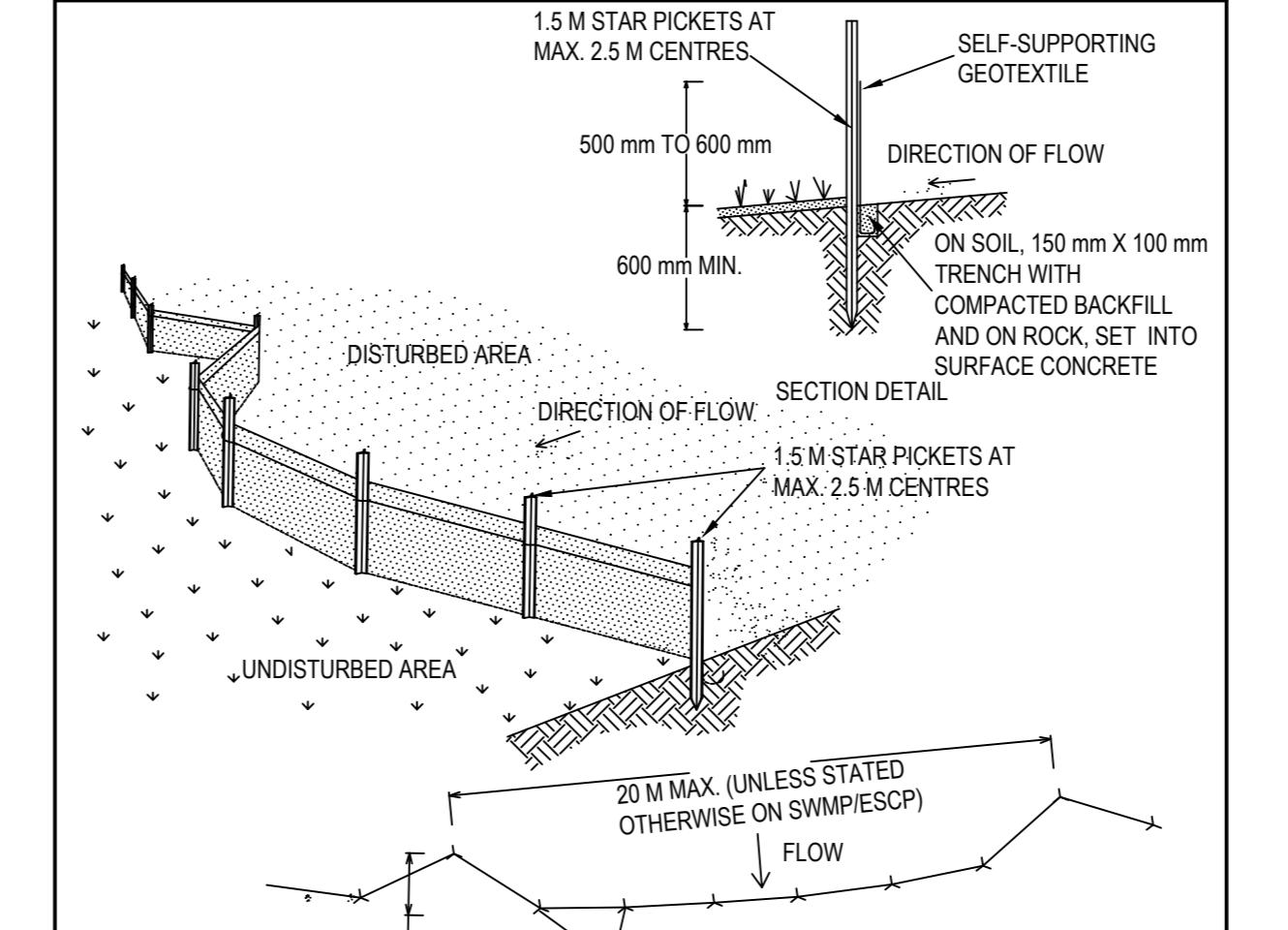
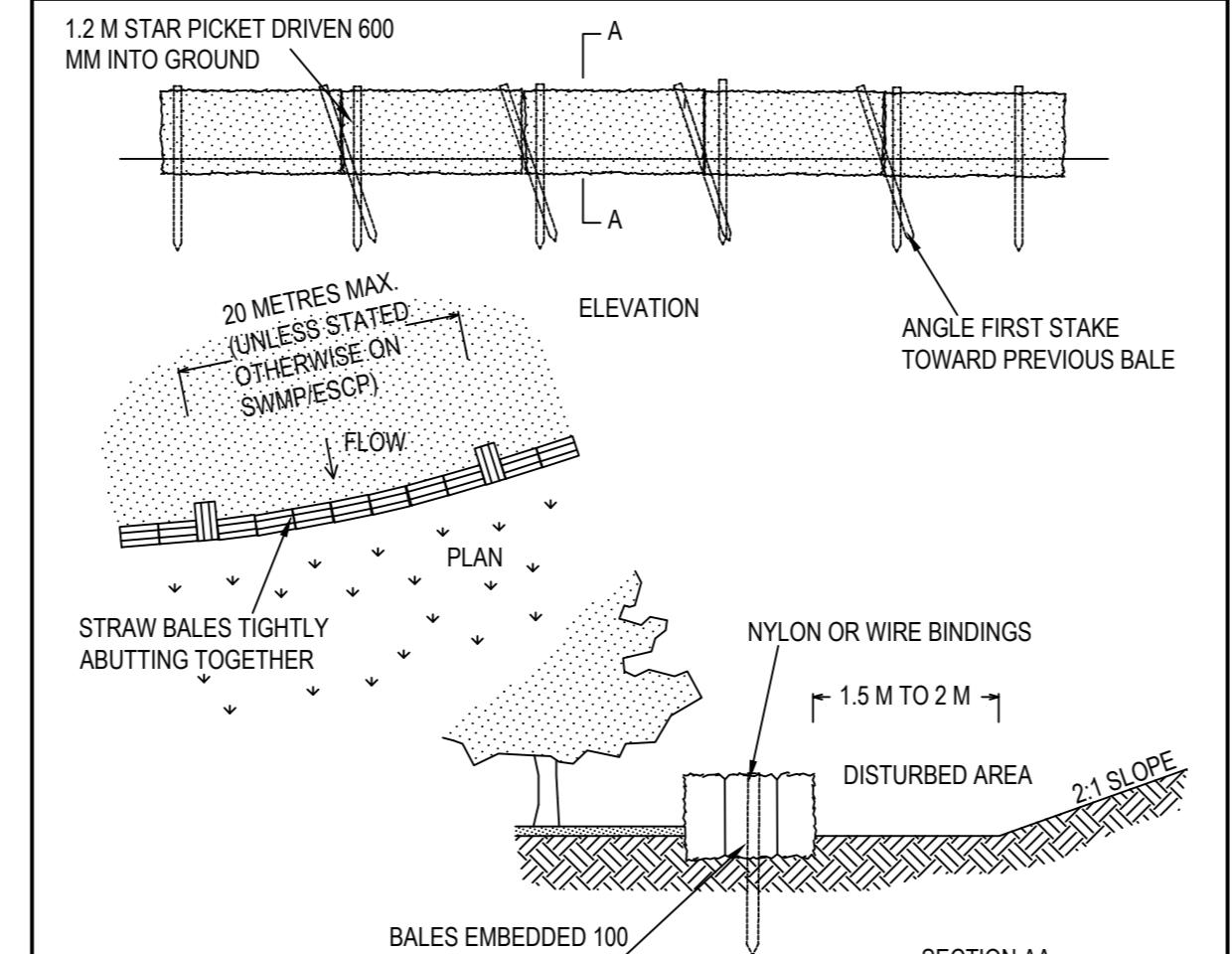
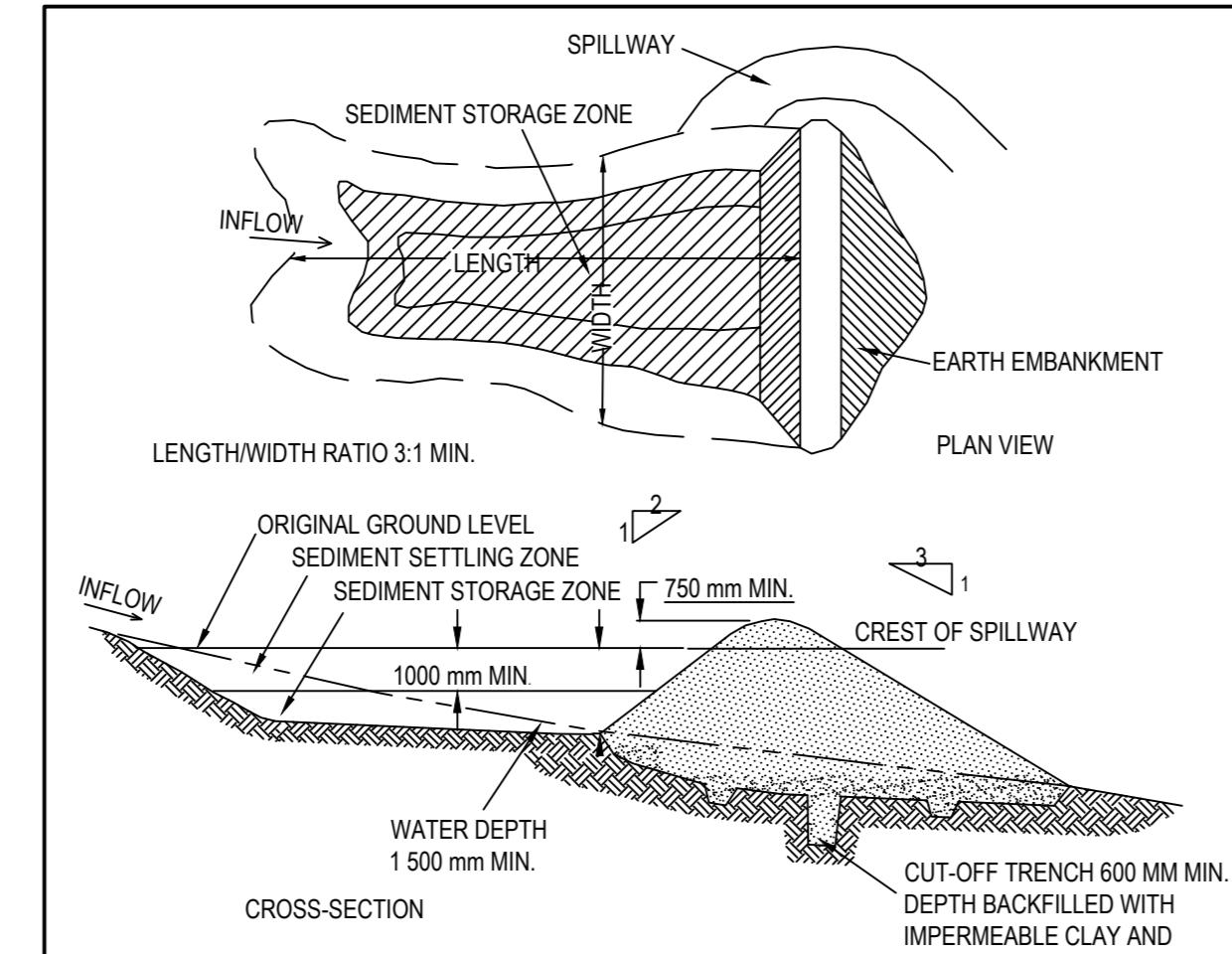
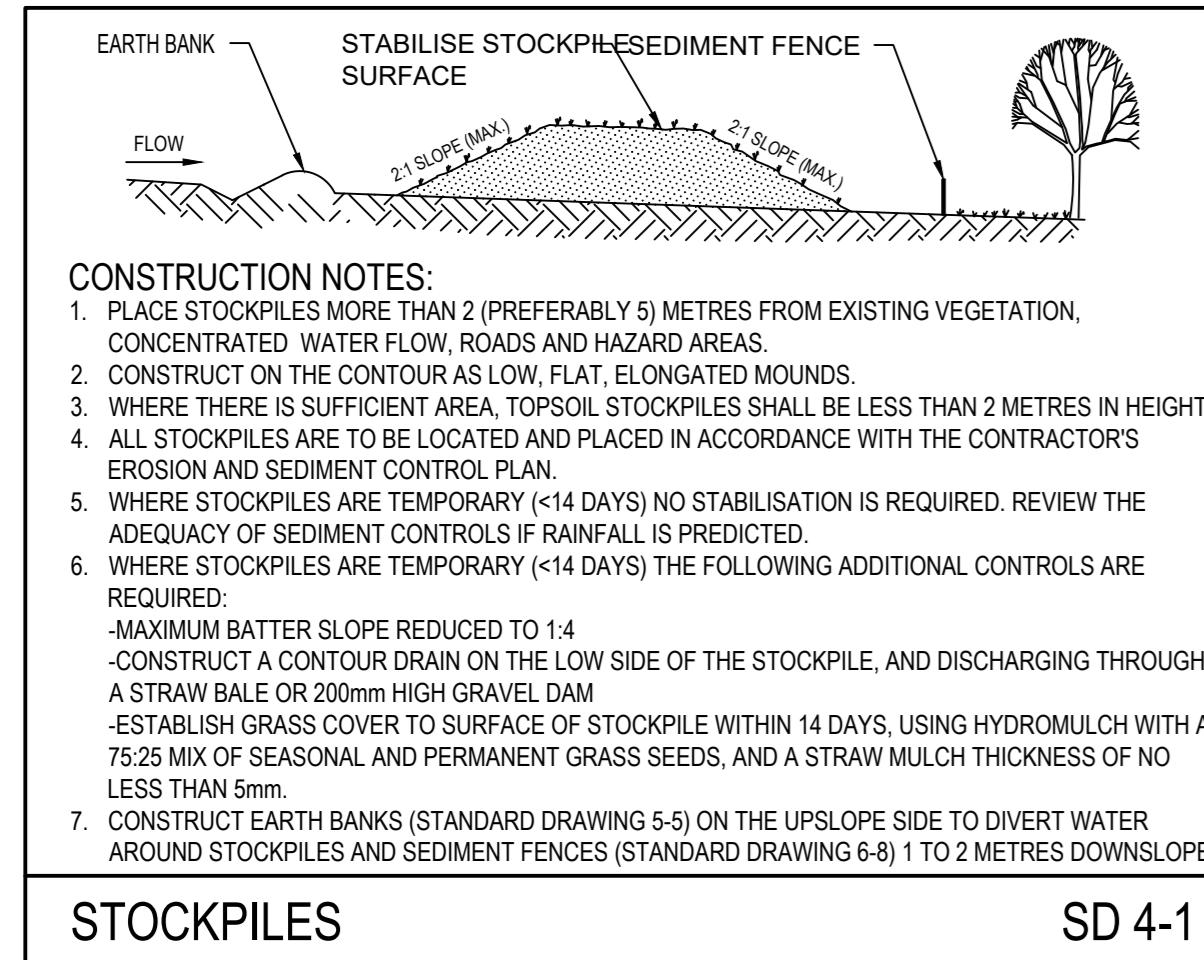
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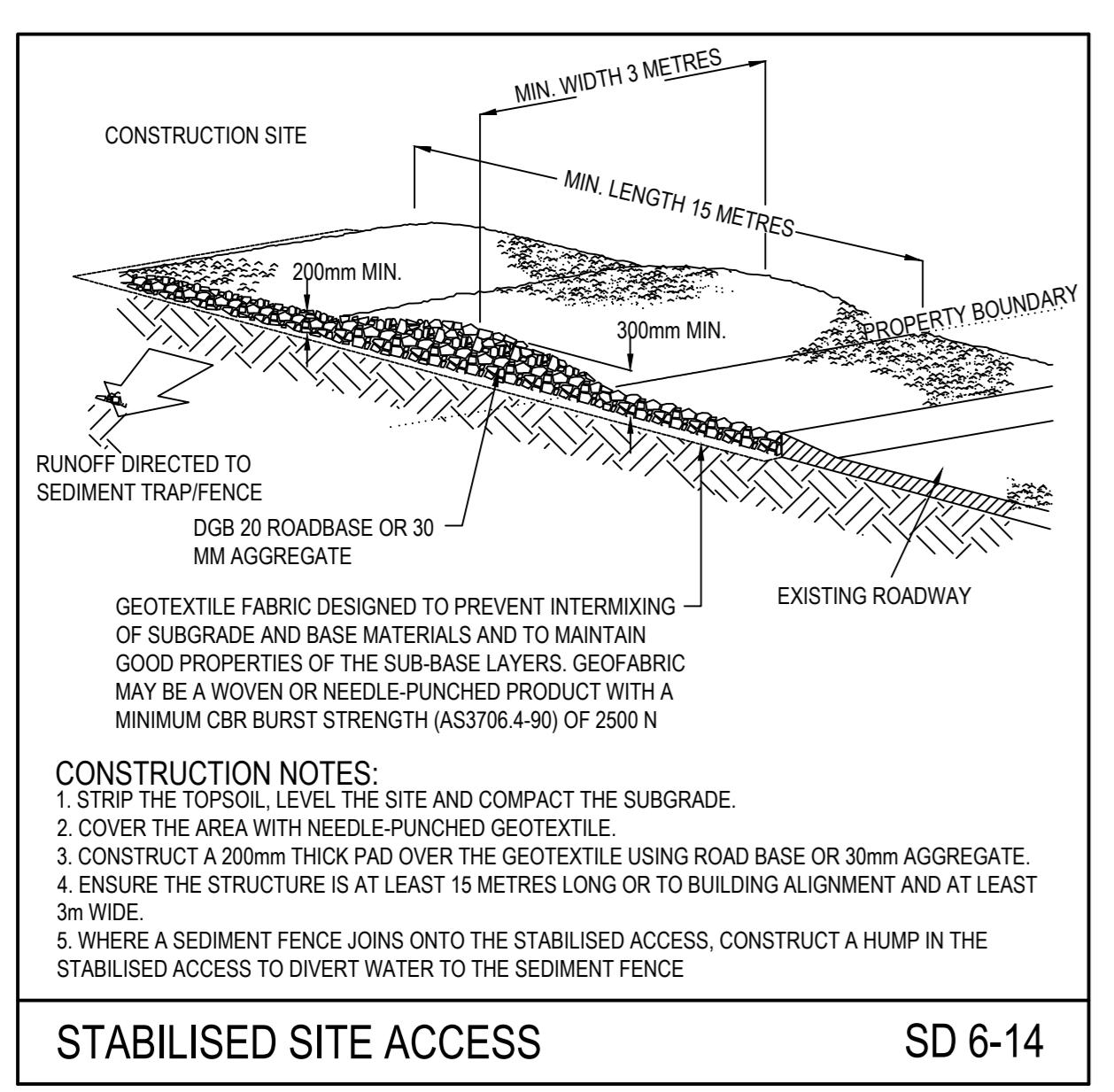
Drawing Title
SEDIMENT AND EROSION
CONTROL PLAN & DETAILS
SHEET 1 OF 2

Scale 1:100 All Project No. 25035 Dwg. No. 109 Issue A



SEDIMENT BASIN CALCULATION:
 THE MINIMUM VOLUME OF THE UPPER SETTING ZONE IS DEFINED BY EQUATION:

$$V_g = 10 \cdot R_{(y-5-day)} \cdot C_v \cdot A$$
 WHERE: V_g = VOLUME OF THE SETTING ZONE (m^3)
 $R_{(y-5-day)}$ = VOLUMETRIC RUNOFF COEFFICIENT
 C_v = EFFECTIVE CATCHMENT SURFACE AREA TO BE CONNECTED TO THE BASIN (ha)
 A = $K_1 \cdot I_{(y-120y)}$ + K_2
 WHERE: K_1 = CONSTANT = 17
 K_2 = CONSTANT = 11.2
 $I_{(y-120y)}$ = AVERAGE RAINFALL INTENSITY FOR A 1 IN 1 YEAR ARI, 120 HR STORM (mm/hr) = 1.3
 THEN: $R_{(y-5-day)} = 17 \times 1.3 + 11.2 = 33.3$
SEDIMENT BASIN:
 $R_{(y-5-day)} = 33.3$
 $C_v = 0.5$
 $A = 3.098 m^2 = 0.3098 ha$
 THEN $V_g = 10 \times 33.3 \times 0.5 \times 0.3098 = 51.58 m^3$



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

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 ONCE THE STABILISATION OF THE WORKS IS COMPLETED. IT IS NECESSARY TO UNDERTAKE STEPPING IN ORDER TO CONSTRUCT A SEDIMENT CONTROL DEVICE ONLY IF SUFFICIENT GROUND IS 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 THE 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 CONTRACTOR'S 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 REHABILITATE THE SITE FULLY 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 4:1 (V:H) OR LESS AND TO A DEPTH OF 40 TO 60mm IN REVEGETATION AREAS STEEPER THAN 4:1.
18. LEAVE TOPSOIL IN A SCARIFIED OR DUG 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 DETAILED:
 - RECORDS OF ALL RAINFALL
 - CONDITION OF SOIL AND WATER MANAGEMENT STRUCTURES
 - ANY MAINTENANCE OR REPAIRS TO SEDIMENT BASINS
 - 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 RUN-OFF.
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, AND WHETHER THIS IS DOING 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.

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DEVELOPMENT APPLICATION

Drawing Title
SEDIMENT AND EROSION
CONTROL PLAN & DETAILS
SHEET 2 OF 2
 Scale All Project No. 25035
 As Shown Dwg. No. 110
 Issue A

