

NEW DWELLING AND ASSOCIATED LANDSCAPING AT 4 INKERMAN STREET, MOSMAN. NSW 2088

GENERAL NOTES – STORM WATER

- SW1 All S.W. pipework to be carried out in U.P.V.C. to AS 1260 CLASS SH.
- SW2 All D.P. to be carried out in U.P.V.C. to AS 1415 parts 1-5 CLASS SWV.
- SW3 All S.W. pipes to grade at 1% min. U.N.O.
- SW4 All S.W. pipework to be 100Ømm U.N.O.
- SW5 All gutters to be as noted in schedule.
- SW6 All D.P.'S to be 90Ø U.N.O.
- SW7 All grated pits to be 300x300 precast concrete U.N.O.
- SW8 Rainwater Tank
- SW9 All covers, grates & frames to be heavy duty where subject to vehicular traffic.
- SW10 All covers, grates & frames to be medium duty where subject to pedestrian traffic or landscaped areas.
- SW11 All drainage to maintain a min. cover of 100mm.
- SW12 For exact location of buildings, levels, walls, d.p.'s etc. refer to architectural detail drawings.
- SW13 The contractor shall submit to the builder for approval, samples of the nominated equipment, fittings and fixtures to be used for the project. This also applies and must be strictly adhered to when offering alternatives to specified items.
- SW14 Any discrepancy or variations of design shall be refereed to 'The Principle' for decision prior to the commencement of any such work.
- SW15 The contractor shall be responsible for the set out and placement pf all core holes, wall, floor and beam penetrations. All penetrations shall be approved prior placement, seal holes and repair chases in walls after installation of pipework.
- SW16 All floor and wall penetrations shall be fire rated to comply with the requirements of the Building Code of Australia.
- SW17 The drawings documented hereafter do not purport to show all architectural, structural or hydraulic services details. The are a guide only, and it shall be the contractors responsibility to allow for all necessary fittings, pipes, penetrations, droppers, risers and ancillary items for a complete and compliant installation.
- SW18 The contractor shall test all installed services to the requirements and satisfaction of the relevant authorities and superintendent.
- SW19 Provide fail safe overflow spitters no less than 50mm diameter for all balconies and terraces.

- SW20 All drainage pipes less than 300mm in diameter shall be sewer grade U.P.V.C. with solvent welded joints (U.N.O.) All pipe junctions and tapers shall be via proprietry made fittings.
- SW21 Final location of rainwater downpipes shall be co-ordinated on-site with the builder, to the approval of the architect and engineer and in accordance with AS3500, AS4198 and AR&R97.
- SW22 All box gutters and rainwater heads shall be fitted with failsafe overflows sized and installed to AS3500.
- SW23 All drainpipes located in noise sensitive areas as deemed by the architect, acoustic engineer or equivalent persns, shall be acoustically insulated using a system no less in standard than 'SOUNDLAGG 4525C' installed to the manufacturers recommendations.

SUBSOIL DRAINAGE

- SS1 Subsoil drainage shall be consistent with the structural engineers details.
- SS2 Subsoil drains shall be slotted flexible U.P.V.C. 100mm diameter fitted with geo-frabric filter sock.
- SS3 Subsoil drainage shall be laid at a minimum grade of 0.5% U.N.O.
- SS4 Subsoil drainage should be installed on the upstream end of any proposed paved areas and connected to the piped drainage system or watercourse.
- SS5 Additional subsoil drainage shall be laid to suit site conditions and groundwater presence as directed.

LEGEND

FFL	Finished floor level	S.S.	Sub-soil drainage
IL	Invert level		Existing surface level
RL	Reduced level	o DP	Down pipe
US	Underside	⊗ RW0	Rainwater outlet
CIS	Cast into slab	⊗ RWH	Rainwater head
CIC	Cast into column		Grated stormwater pit
STW	Stormwater		Dropper
TOW	Top of wall		
SPR.	Spreader		

ON-SITE DETENTION CALCULATIONS

PERMITTED SITE DISCHARGE

ON SITE DETENTION – TRIANGULAR HYDROGRAPHS

Rainfall Grid Reference : MOSMAN
Catchment Area (m²) : 410
Impervious Area Pre Dev (%) : 68
Impervious Area Post Dev (%) : 68
Draining Through OSD (%) : 100
Gutter Flow (mins) : 5.0

Length (m) Slope (%) Roughness
37.0 1.00 0.015

ARI (yrs)	Pre-Development Tc(min)	C	I	Qpre l/s	Post Development Tc(min)	C	I	Basin Qout(l/s)	Vol(m ³)	Limiting Q used
1	8	0.65	84	6	5	0.65	100	6.0	0.4	Yes
2	8	0.69	108	8	5	0.69	128	8.4	0.5	Yes
5	8	0.77	138	12	5	0.77	162	10.3	1.1	Yes
10	8	0.81	155	14	6	0.81	172	10.3	1.9	Yes
20	7	0.85	187	18	7	0.85	187	10.3	3.2	Yes
50	7	0.93	218	23	7	0.93	218	10.3	5.3	Yes
100	7	0.97	241	26	7	0.97	241	10.3	6.8	Yes

- NOTE:**
1. OFFSET THE O.S.D. STORAGE FOR RAINWATER STORAGE AT A RATIO OF 3 TO 1, IN ACCORDANCE WITH COUNCIL'S POLICY.
- THEREFORE, RAINWATER STORAGE REQUIRED = 6.8 x 3 = 20.4m³ TOTAL
2. BASIX REQUIREMENT FOR 3000l RAINWATER TANK IS INCLUDED IN THIS.

NOTE:-

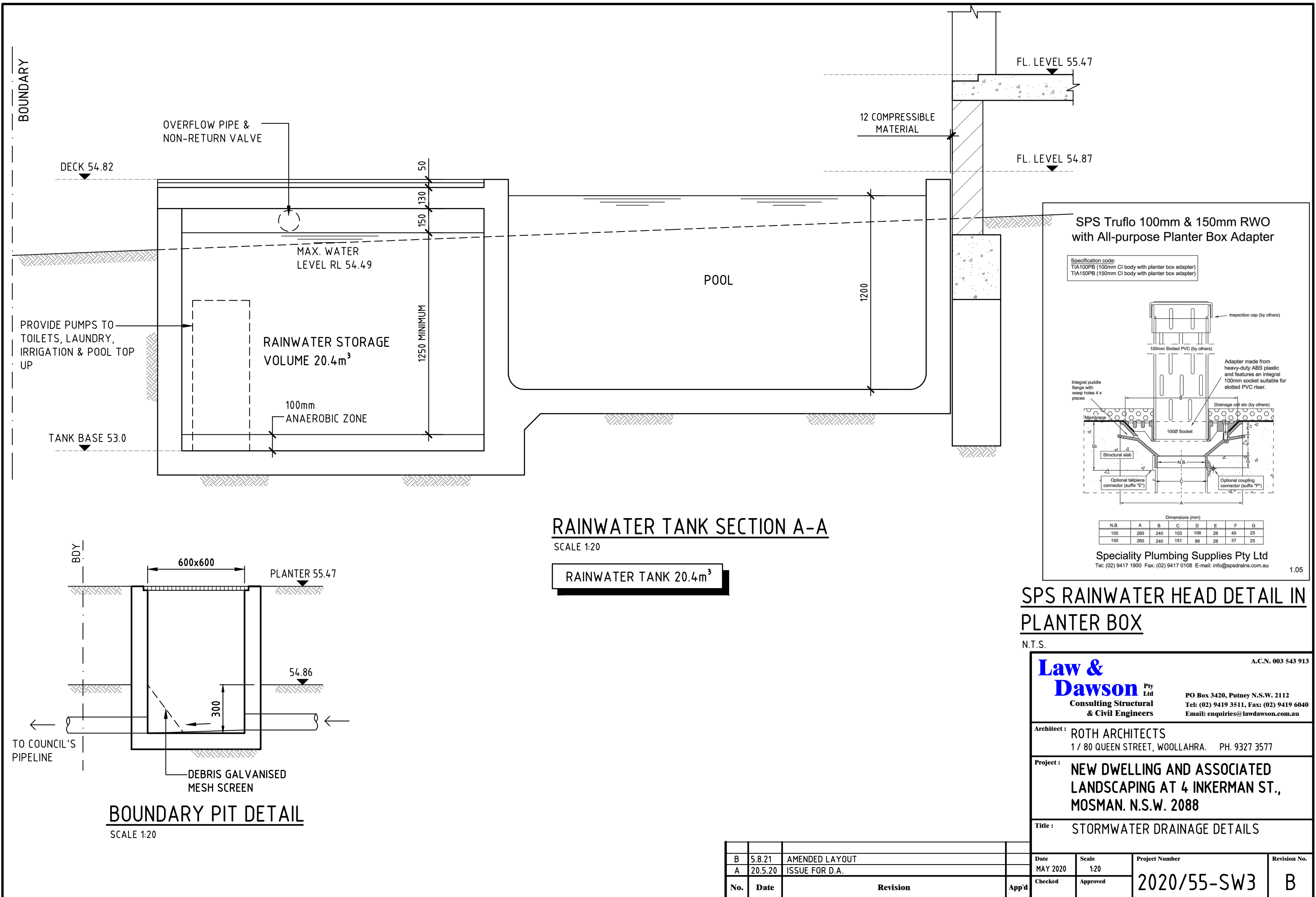
ALL ROOF GUTTERS TO COLLECT STORMWATER UP TO A 20 A.R.I.

ADEQUATE OVERFLOW PROVISIONS ARE TO BE PROVIDED FOR EAVES GUTTERS

CONCEPT
STORMWATER

B	5.8.21	AMENDED LAYOUT			Date	Scale	Project Number	Revision No.	
A	20.5.20	ISSUE FOR D.A.			MAY 2020	-			
No.	Date	Revision	App'd	Checked	Approved		2020/55-SW1	B	

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Project :				NEW DWELLING AND ASSOCIATED LANDSCAPING AT 4 INKERMAN ST., MOSMAN. N.S.W. 2088			
Title :				STORMWATER DRAINAGE NOTES & CALCULATIONS			



RAINWATER TANK SECTION A-A

SCALE 1:20

RAINWATER TANK 20.4m³

SPS RAINWATER HEAD DETAIL IN PLANTER BOX

N.T.S.

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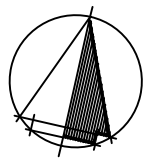
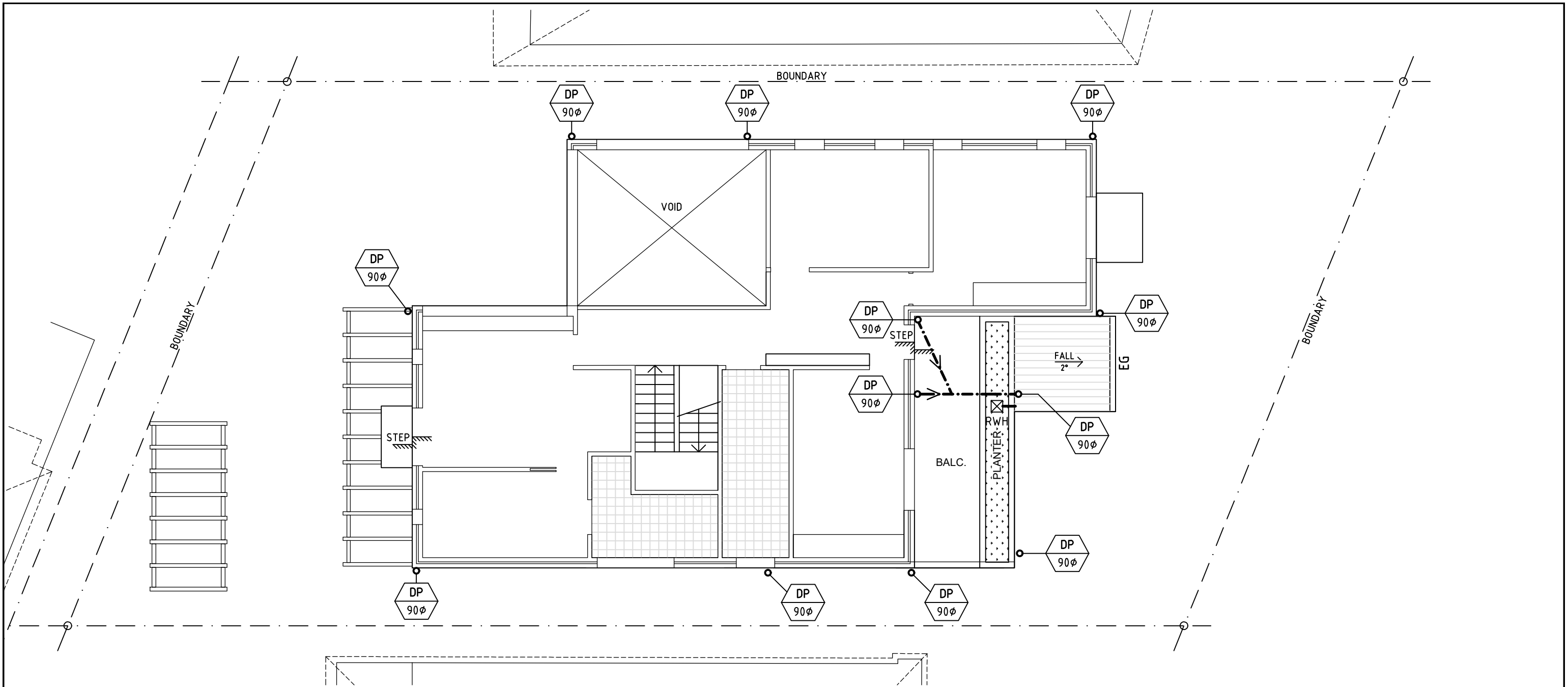
Project :
NEW DWELLING AND ASSOCIATED LANDSCAPING AT 4 INKERMANS ST., MOSMAN. N.S.W. 2088

Title :
STORMWATER DRAINAGE DETAILS

B	5.8.21	AMENDED LAYOUT	Date	Scale	Project Number	Revision No.
A	20.5.20	ISSUE FOR D.A.	MAY 2020	1:20	2020/55-SW3	B
No.	Date	Revision	Checked	Approved		

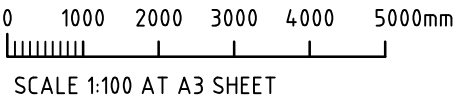
BOUNDARY PIT DETAIL

SCALE 1:20



FIRST FLOOR STORMWATER DRAINAGE PLAN
SCALE 1:100

CONCEPT
STORMWATER



				STORMWATER DRAINAGE PLAN			
B	5.8.21	AMENDED LAYOUT		Date	Scale	Project Number	Revision No.
A	20.5.20	ISSUE FOR D.A.		MAY 2020	1:100	2020/55-SW4	B
No.	Date	Revision	App'd	Checked	Approved		

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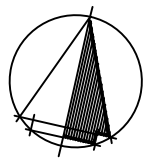
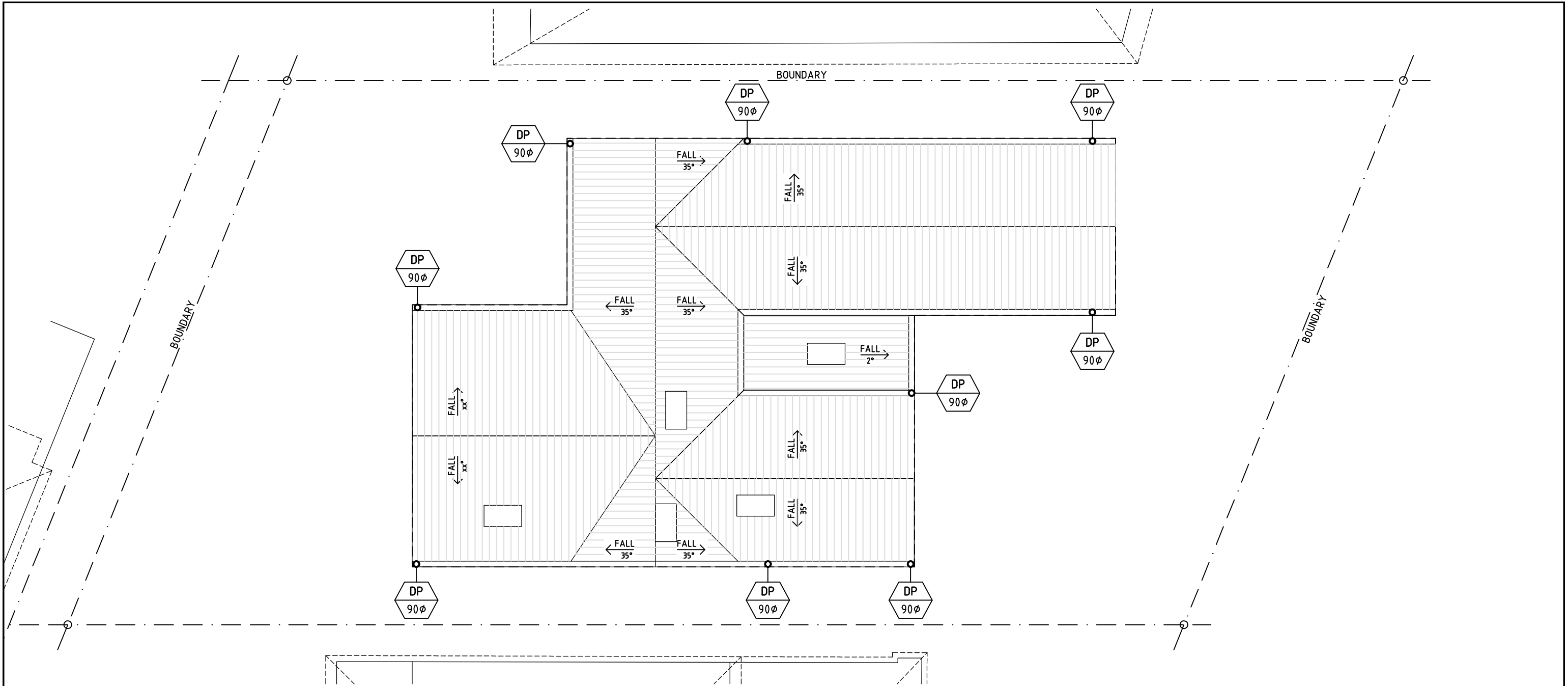
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Project :

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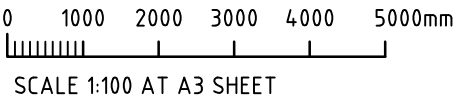
Title :

FIRST FLOOR STORMWATER DRAINAGE PLAN



ROOF STORMWATER DRAINAGE PLAN
SCALE 1:100

**CONCEPT
STORMWATER**



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No.	Date	Revision		App'd	Checked	Approved	2020/55-SW5	B

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Project : **NEW DWELLING AND ASSOCIATED
LANDSCAPING AT 4 INKERMANN ST.,
MOSMAN. N.S.W. 2088**

Title : ROOF STORMWATER DRAINAGE PLAN