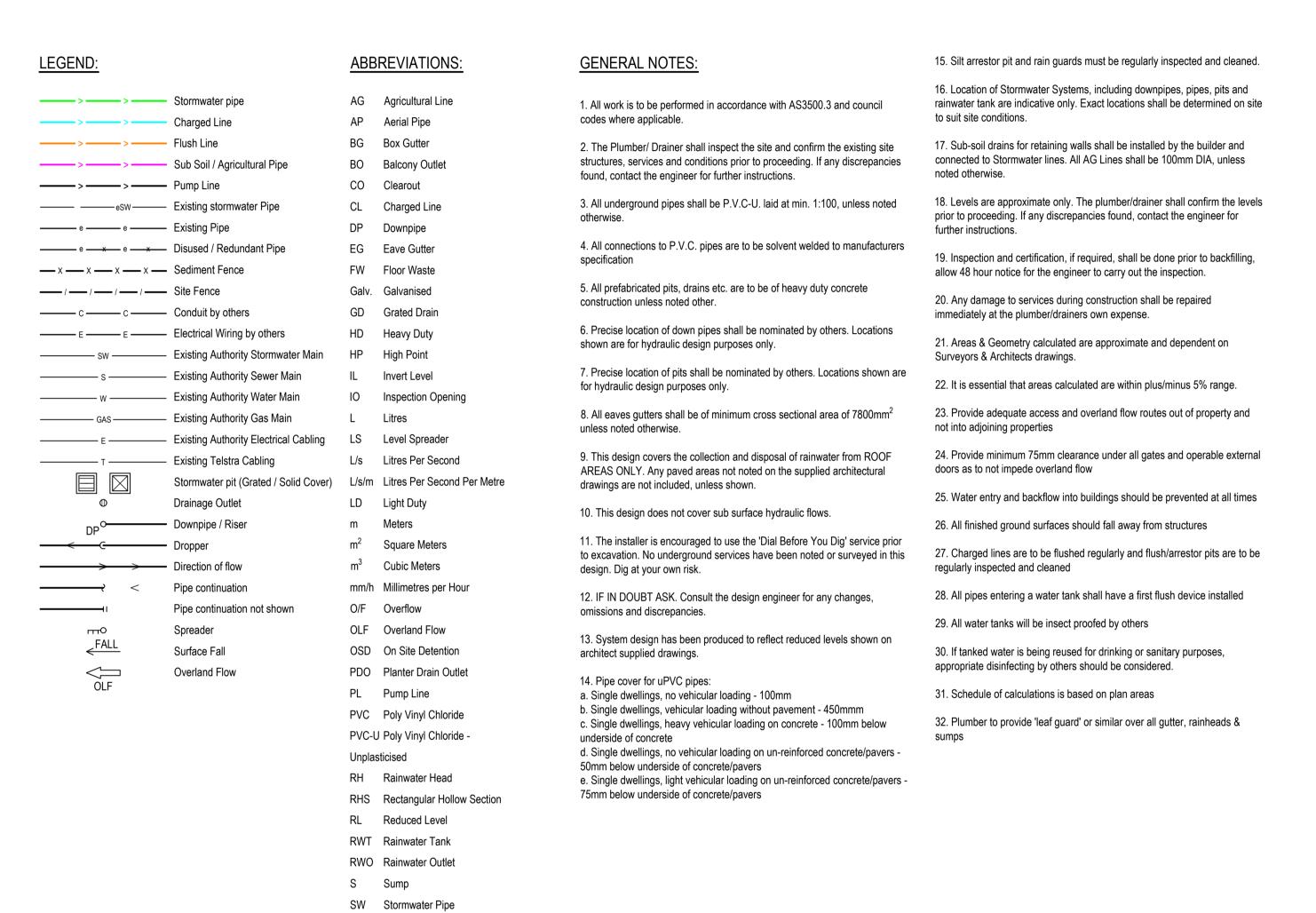
## 3 Elizabeth Place, Brookvale Concept Stormwater Drainage





TB Thrust Block

LOCALITY PLAN

Rev	Date	Amendment Description	Ву	App.	Rev	Date	Amendment Description	Ву	Арр.
01	08.12.22	Amended to suit arborist comments	SM	BM					
	1								









Kathie Pisto

3 Elizabeth Place Brookvale NSW 2100 Concept Stormwater Drainage
Project Information Sheet

SCALE: DES/DRN: APPROVED
DES/DRN: APPROVED
DES/DRN: APPROVED
DES/DRN: APPROVED

HARRISON & MORRIS CONSULTANCY PTY.LTD.

(A.C.N. 123 191 499 A.B.N. 94 123 191 499)

CONSULTING STRUCTURAL & CIVIL ENGINEERS

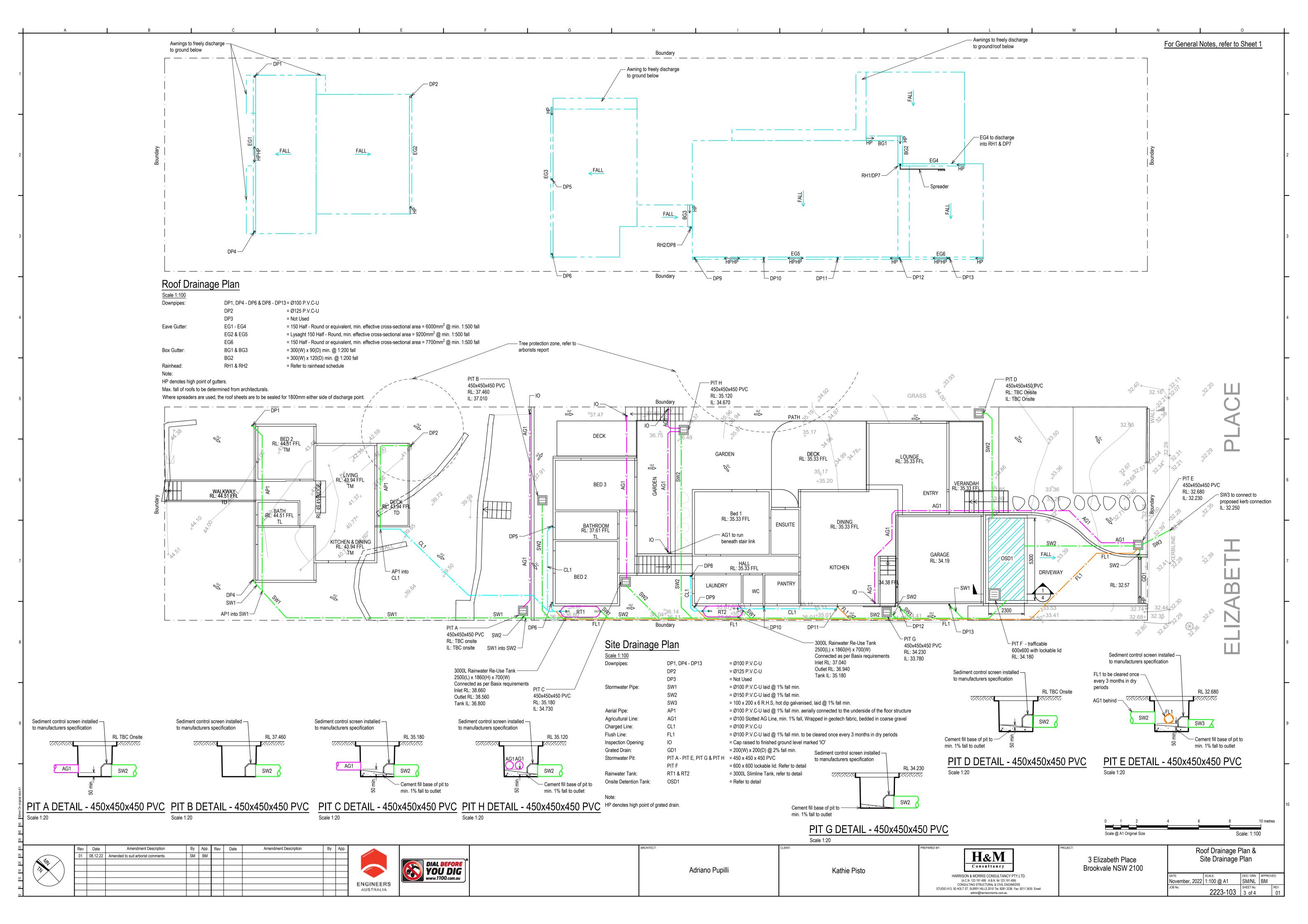
STUDIO 413, 55 HOLT ST. SURRY HILLS 2010 Tel: 9281 3236 Fax: 9211 3435 Email:

For General Notes, refer to Sheet 1 Existing Site Coverage Proposed Site Coverage
Scale 1:100 Scale @ A1 Original Size H&M Existing & Proposed Site Coverage 3 Elizabeth Place DIAL BEFORE YOU DIG www.1100.com.au Consultancy Brookvale NSW 2100 Adriano Pupilli Kathie Pisto HARRISON & MORRIS CONSULTANCY PTY.LTD. 
 DATE:
 SCALE:
 DES / DRN:
 APPROVED:

 November, 2022
 1:100 @ A1
 SM/NL
 BM
 (A.C.N. 123 191 499 A.B.N. 94 123 191 499)

CONSULTING STRUCTURAL & CIVIL ENGINEERS

STUDIO 413, 55 HOLT ST. SURRY HILLS 2010 Tel: 9281 3236 Fax: 9211 3435 Email: admin@harrisonmorris.com.au ENGINEERS AUSTRALIA 2223-103 SHEET No. 2 of 4

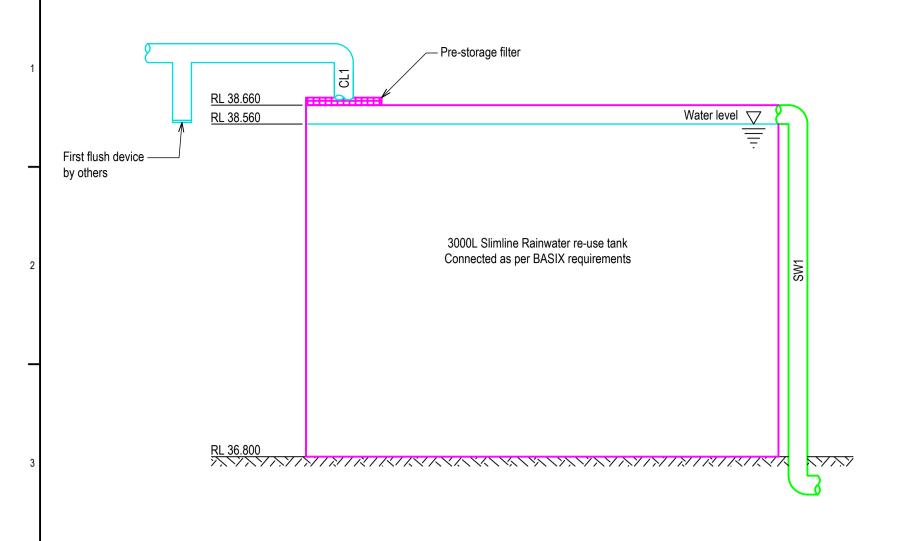


UNITS

mm/h

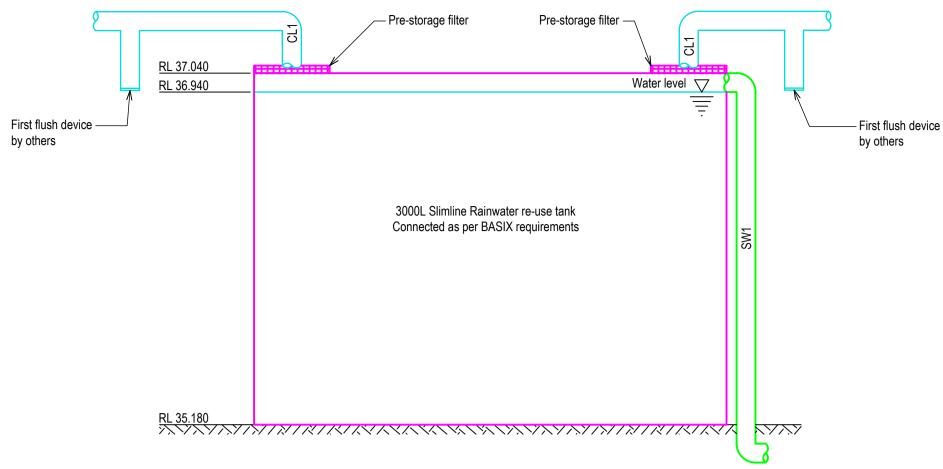
mm/h

mm/h



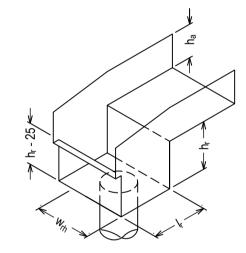
3000L RAINWATER RE-USE TANK RT1 LONG-SECTION

Scale 1:20



3000L RAINWATER RE-USE TANK RT2 LONG-SECTION Scale 1:20

— 600x600 sealed lid Assumed 200mm min opening -RL 34.180 thick slab trafficable 12.19m<sup>3</sup> Detention Sediment control screen installed to manufacturers specification 450x450x200 sump at outlet HP RL TBC on-site SW2 RL TBC on-site - 113Ø outlet Centre line 200mm above └─ Waterproof base of sump membrane by others 2300 x 5300 - 4/Ø90 weep holes filled 14mm aggregate wrapped — with geotextile fabric with 14mm aggregate Replaeable geotextile fabric ———



## RAINHEAD SCHEDULE

NOT TO SCALE AS/NZS 3500.3:2015, page 140

own Pipe	ha	lr	h <sub>r</sub>	$\mathbf{w}_{rh}$	
DP7	120	120	100	300	
DP8	120	120	100	300	

- 1. All units are in millimetres
- 2. All values are the minimum required
- 3. The width of rainhead is equal to the width of box gutter 4. Rain Head shall be fully sealed to the box gutter and the
- front of the Rain Head Left open above the overflow weir

12.19m <sup>3</sup> UNDERGROUND ON-SITE DETENTION TANK
SECTION & PIT F
SCALE 1:20

EVIO	TING	
Total Roof Area	174.76	m²
Total Additional Impervious Area	160.65	m²
Total Pervious Area	531.41	m²
Total Pool Area	0.00	m²
Total Runoff for Existing Catchment Q100	45.18	L/s
Total Runoff for Existing Catchment Q20	33.97	L/s
Total Runoff for Existing Catchment Q5	25.19	L/s
PROP	OSED	•
Total Roof Area	326.06	m²
Total Additional Impervious Area	137.05	m²
Total Pervious Area	403.71	m²
Total Pool Area	0.00	m²
Total Runoff for Proposed Catchment Q100	50.29	L/s
Total Runoff for Proposed Catchment Q20	37.81	L/s
Total Runoff for Proposed Catchment Q5	28.04	L/s
Property is located within Region 2 in accordance	with Northern Beaches Council DCP (	2021) Map 2.
OSD Required as per Northern Beaches DCP (2021) (463.11m2) > 40% of the total site area		
BASIX	DATA	
Rainwater Tank Size required by BASIX	6000	L
Rainwater Tank Size provided	6000	L
Roof Area required to Rainwater Tank	60	m²
Roof Area provided to Rainwater Tank	194.25	m²
ON-SITE DETE	ENTION DATA	•
Total Existing Site Discharge Q100	45.18	L/s
Total Proposed Site Discharge Q100	50.29	L/s
Allowed Permissible Site Discharge (Q100) (Council DCP)		
3 (4 1)	400.00	L/s/ha
Permissible Site Discharge (Q100)	400.00 34.67	L/s/ha L/s
Permissible Site Discharge (Q100)		
Permissible Site Discharge (Q100) Allowed Storage Volume (Council DCP)	34.67	L/s
Permissible Site Discharge (Q100)  Allowed Storage Volume (Council DCP)  Required Storage Volume	34.67 200.00	L/s m³
Permissible Site Discharge (Q100)  Allowed Storage Volume (Council DCP)  Required Storage Volume  Maximum Offsettable Storage (Required Volume / 2)	34.67 200.00 17.34	L/s m³ m³
Permissible Site Discharge (Q100)  Allowed Storage Volume (Council DCP)  Required Storage Volume  Maximum Offsettable Storage (Required Volume / 2)  Storage Offset by Rainwater Tanks	34.67 200.00 17.34 8.67	L/s m³ m³ m³
Permissible Site Discharge (Q100)  Allowed Storage Volume (Council DCP)  Required Storage Volume  Maximum Offsettable Storage (Required Volume / 2)  Storage Offset by Rainwater Tanks  Storage Volume Required after offset	34.67 200.00 17.34 8.67 6.00	L/s m³ m³ m³ m³
Permissible Site Discharge (Q100)  Allowed Storage Volume (Council DCP)  Required Storage Volume  Maximum Offsettable Storage (Required Volume / 2)  Storage Offset by Rainwater Tanks  Storage Volume Required after offset	34.67 200.00 17.34 8.67 6.00 11.34	L/s m³ m³ m³ m³ m³
Permissible Site Discharge (Q100)  Allowed Storage Volume (Council DCP)  Required Storage Volume  Maximum Offsettable Storage (Required Volume / 2)  Storage Offset by Rainwater Tanks  Storage Volume Required after offset  Storage Volume Provided after offset  Total Discharge to Tank Q100	34.67 200.00 17.34 8.67 6.00 11.34 12.19	L/s m³ m³ m³ m³ m³ m³ m³
Permissible Site Discharge (Q100)  Allowed Storage Volume (Council DCP)  Required Storage Volume  Maximum Offsettable Storage (Required Volume / 2)  Storage Offset by Rainwater Tanks  Storage Volume Required after offset  Storage Volume Provided after offset	34.67 200.00 17.34 8.67 6.00 11.34 12.19 42.92	L/s m³ m³ m³ m³ m³ m³ L/s
Permissible Site Discharge (Q100)  Allowed Storage Volume (Council DCP)  Required Storage Volume  Maximum Offsettable Storage (Required Volume / 2)  Storage Offset by Rainwater Tanks  Storage Volume Required after offset  Storage Volume Provided after offset  Total Discharge to Tank Q100  Height above orifice  Orifice Diameter	34.67 200.00 17.34 8.67 6.00 11.34 12.19 42.92 1.00	L/s m³ m³ m³ m³ m³ cm³ L/s m
Permissible Site Discharge (Q100)  Allowed Storage Volume (Council DCP)  Required Storage Volume  Maximum Offsettable Storage (Required Volume / 2)  Storage Offset by Rainwater Tanks  Storage Volume Required after offset  Storage Volume Provided after offset  Total Discharge to Tank Q100  Height above orifice  Orifice Diameter	34.67 200.00 17.34 8.67 6.00 11.34 12.19 42.92 1.00 113 27.30	L/s m³ m³ m³ m³ m³ m³ L/s mm
Permissible Site Discharge (Q100)  Allowed Storage Volume (Council DCP)  Required Storage Volume  Maximum Offsettable Storage (Required Volume / 2)  Storage Offset by Rainwater Tanks  Storage Volume Required after offset  Storage Volume Provided after offset  Total Discharge to Tank Q100  Height above orifice  Orifice Diameter  Orifice Discharge	34.67 200.00 17.34 8.67 6.00 11.34 12.19 42.92 1.00 113 27.30	L/s m³ m³ m³ m³ m³ m³ L/s mm
Permissible Site Discharge (Q100)  Allowed Storage Volume (Council DCP)  Required Storage Volume  Maximum Offsettable Storage (Required Volume / 2)  Storage Offset by Rainwater Tanks  Storage Volume Required after offset  Storage Volume Provided after offset  Total Discharge to Tank Q100  Height above orifice  Orifice Diameter  Orifice Discharge	34.67 200.00 17.34 8.67 6.00 11.34 12.19 42.92 1.00 113 27.30  ARGE DATA	L/s m³ m³ m³ m³ m³ m³ L/s m mm L/s

SCHEDULE OF CALCULATIONS

**CATCHMENT DATA** 

**EXISTING** 

ITEM

100I5 Rainfall intensity - BOM 14-11-22

20I5 Rainfall intensity - BOM 14-11-22

5I5 Rainfall intensity - BOM 14-11-22

Site Area

**VALUE** 

278

209

155

866.82

	Rev	Date	Amendment Description	Ву	Арр.	Rev	Date	Amendment Description	Ву	Арр.
	01	08.12.22	Amended to suit arborist comments	SM	BM					
7/1										
$\vee$										









Rainwater & OSD Tanks Details 3 Elizabeth Place Brookvale NSW 2100