

SITE STORMWATER MANAGEMENT PLAN

System to collect all roof and drive run off and be directed to an OSD / storage tank. The OSD is to reduce peak off site flow rates to that of an un developed 'greenfields' site. Tank outlets are to be discharged to a Dispersion Trench located in the rear yard in a manner to mimic pre developed conditions and as not to adversely effect downstream properties. Pittwater 21 DCP Section B5 Water Management Compliance -**B5.1 Water Management Plan**

- storm water addressed within this plan, rainwater, grey water and waste water details by others as per industry standards **B5.4 Storm Water Harvesting**

- refer BASIX certificate by others
- **B5.5 Rainwater Tanks**
- not applicable

B5.6 Rainwater Tanks - Water Supply

- not applicable

B5.7 Storm Water Management Onsite Detention

- approx 68m2 increase in impervious (hard) surfaces, using DRAINs software 2000I OSD storage required B5.8 Stormwater Management Water Quality Low Density Residential - pre screening to BASIX Rainwater Tank and SQID treatment system

detailed within 450x450x450 Service Pit

B5.9 Stormwater Management Water Quality Other than Low Density Residential - not applicable

B5.10 Stormwater Discharge into Public Drainage system

- discharge via dispersion (to mimic existing conditions)

B5.11 Stormwater Discharge into Waterways and Coastal areas - not applicable

B5.12 Stormwater Drainage systems and Natural watercourse - not applicable

- B5.13 Development on Waterfront land
- not applicable

B5.14 Stormwater Drainage Easements

- not applicable

Detailed drainage is to be sized for Construction Certificate submission / Tender documentation by the contracting builder / plumber to NCC and Australian Standards. Indicates down pipe / rain water head location tbc, Variations to layout to be reviewed and approved by Barrenjoey Consulting Engineers before construction.

~ 1:200

Job No : 210205



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LUCAS MOILOY MIEA CPEng NER Director



STORMWATER NOTES

- 1. All roof collection components (ie gutters / DPs etc)are to be located / sized by the Developments contracting Plumber for a 5% AEP event capacity.
- 2. Trunk lines shown on plan to be 150mm dia uPVC. 3. All pipes to be uPVC to AS 1254:2002.
- 4. All pipes to be laid at the grade required to match pit
- 5. All pipes to be installed and laid in accordance with AS
- 6. All roof guttering/ down pipes / valley gutters / box gutters etc are to be sized and installed in accordance with AS
- 7. All pits are to be proprietary uv resistant polypropylene or similar unless noted (approved by the Engineer)and are to include a min 50mm sediment trap in the base and a maximesh screen laid at 45' across the pit to protect the
- 8. All pits greater than 600mm in depth are to be proprietary precast concrete (approved by the Engineer).
- 9. All pits greater than 1000mm in depth are to have adequate access requirements in accordance with OH&S/Workcover requirements (ie; minimum dimensions 900x900mm with step irons).
- 10.All works are to be inspected and certified by the Principle Certifying Authority prioir to backfilling.
- 11.All works requiring certification by the Engineer will require a works as executed survey prepared by a registered Surveyor detailing all levels etc as on the
- 12. The system is too be flushed and cleaned of all sediment and debris annually.
- 13. The system will require regular cleaning and
 - maintenance to ensure its ability to function is maintained.
- 14.To ensure the system's ability to function is maintained it is to be inspected and certified as operating effectively by a licensed plumber every 5 years, and a engineer
- 15.All existing predevelopment catchment area run-off conditions exiting the site are to be maintained with no run-off flows being diverted from the predevelopment
- 16. Flows from upstream properties entering the site are to be monitored during construction and diverted about the OSD system / residence etc as required.

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	- 588 m2
ea	- 200 m2
	note 0m2 modeled
area	- 268 m2
)	- 188 m2
deled	- 2000
е	
	- 26 l/s
	- 42 l/s
e Discharge	
	- 26 I/s TOTAL
	(8 l/s via OSD,
	18 l/s uncontrolled)
	- 42 l/s TOTAL
	(13 l/s via OSD,
	29 l/s uncontrolled)



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