

		Darrenbeg Consuling _ ngineers pigita	
12 2017	Issued for comment	Stormwater Structural Civil	PROPOSED
02 2018	Revised architecturals and issued for comment	PO Box 672	
04 2018	issued for construction certificate submission	Avalon NSW 2107	NEW RESIDENCE
12 2018	issued for comment re DA submission	M: 0418 620 330	LOT 3 No 7 TRENTWOOD PA
02 2019	issued for DA submission	E:lucasbce@bigpond.com	
06 2019	revised layout	ABN: 13124694917	AVALON BEACH
		ACN: 124694917	for ~ M & J DARGAVILLE

STORMWATER NOTES

- 1. All roof collection components (ie gutters down pipes / valley gutters / box gutters etc)are to be located / sized by the Developments contracting Plumber for a **1% AEP** event capacity.
- 2. Pipes shown within plan 150mm dia uPVC min uno.
- 3. All pipes to be uPVC to AS 1254:2002.
- 4. All pipes to be laid at the grade required to match pit invert levels.
- 5. All pipes to be installed and laid in accordance with AS 3500.3:2003.
- 6. All pipes on grades > 1:5 to have anchor blocks @ 6m cts.
- 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 oulet pipe.
- 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 Engineering plans.
- 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 every 20yrs.
- 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 condition.



Lucas Molloy MIEA CPEng NER Director