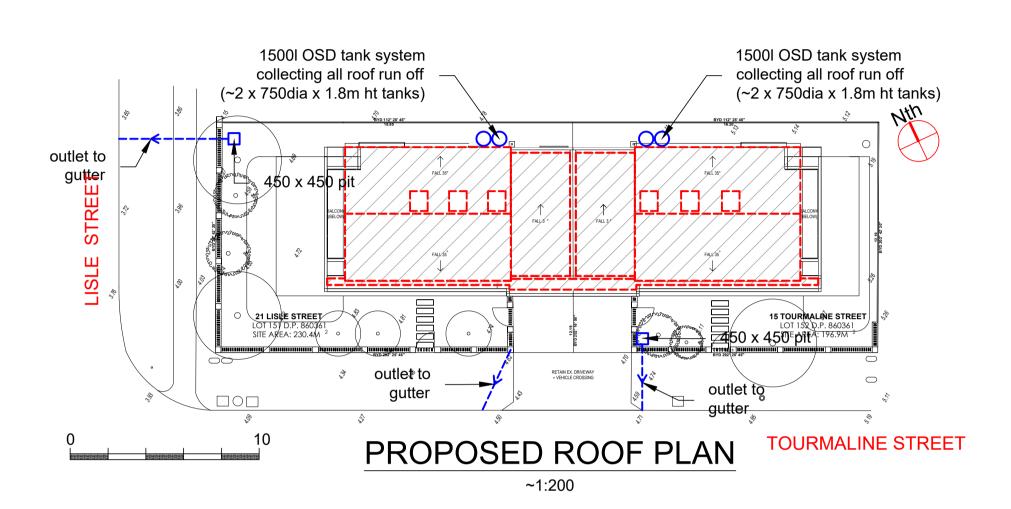
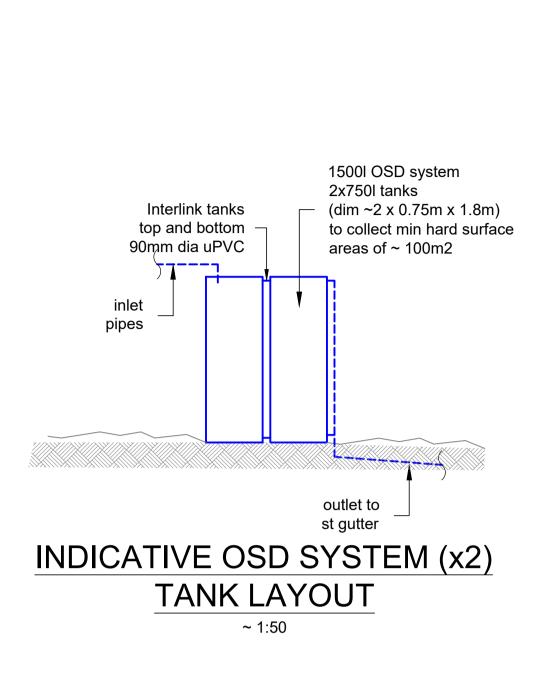
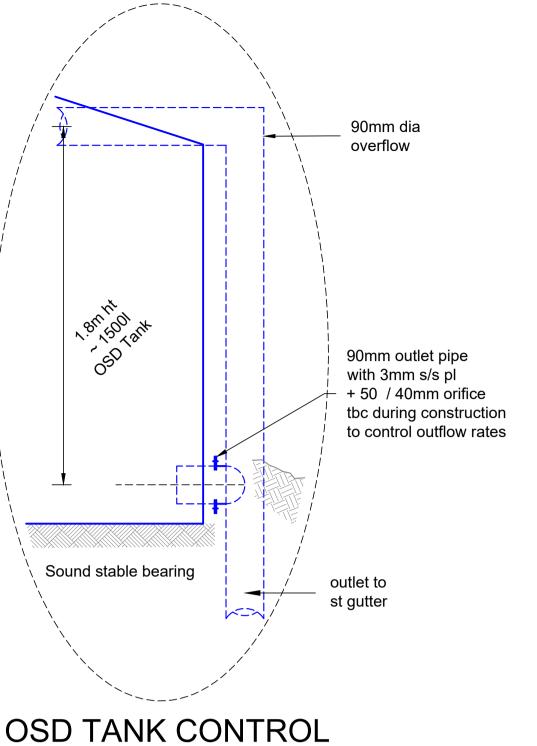


Plans reference 12207 / 24 by Stutchbury Jacques pty Ital for details







OSD TANK CONTROL SYSTEM

~ 1:50

Pre Fabricated Polypropylene Fall ground pit such as Everhard levels to 300 / 450 series grated pits Outlet pipe Inlet pipe min 100mm off 100mm off base of pit base of pit 4x15mm dia holes 200mm free in base draining to drain aggregate sediment wrapped in a geofabric trap

300mm

100mm wide

side support

compacted

cover

soil backfill

75mm bedding

TYPICAL PIPE

& TRENCH DETAIL

150mm overlay

TYPICAL PIT DETAIL

∼ nts

ONSITE DETENTION ASSESSMENT

REPORT (DRAINS ANALYSIS)

No 21 Lisle St

100m2 (0m2 modeled)

230.4 m2

152 m2

10 l/s

16 l/s

4 l/s via OSD

10 I/s TOTAL

5 l/s via OSD

14 I/s TOTAL

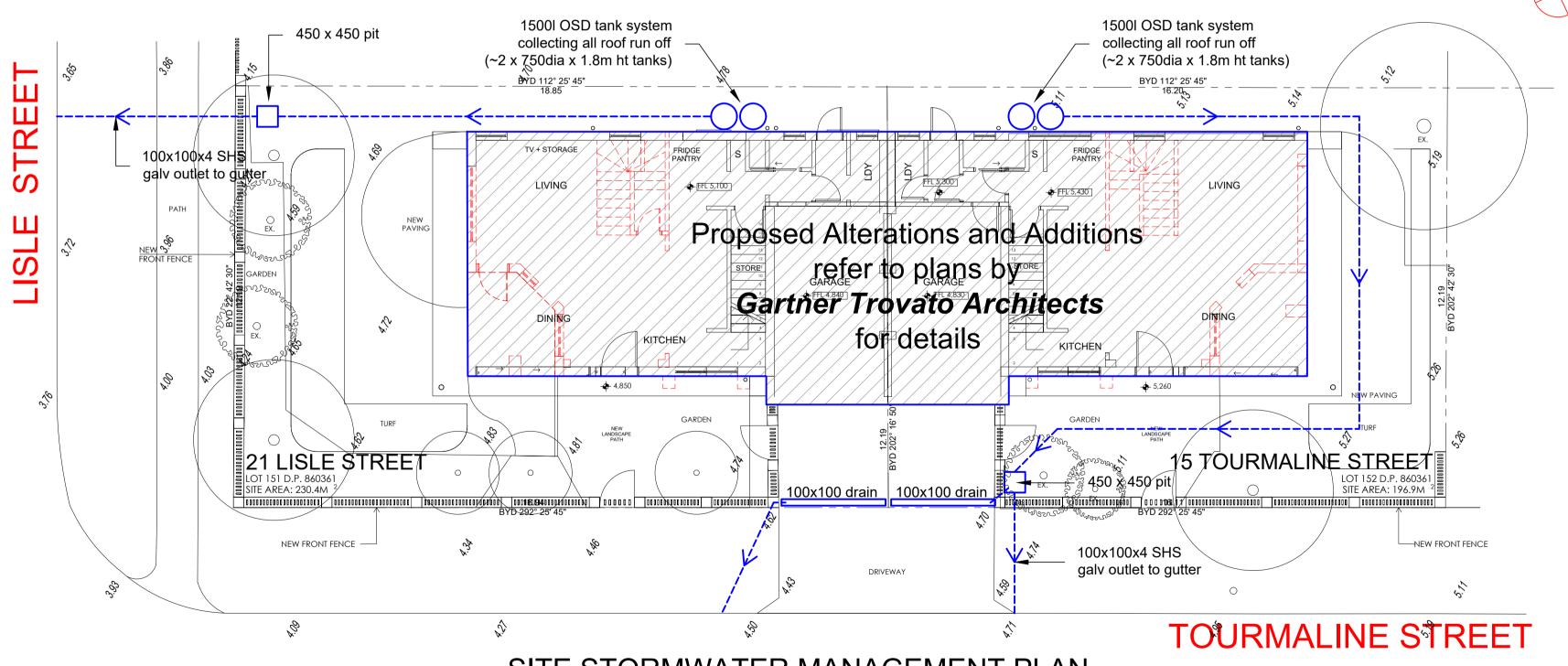
6 l/s uncontrolled

9 l/s uncontrolled

1500I

STORMWATER NOTES

- 1. All roof collection components (ie gutters / DPs etc)are to be located / sized by the Developments contracting Plumber for a 1% AEP event capacity.
- 2. Trunk lines shown on plan to be 150mm dia uPVC, 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
- 5. All pipes to be installed and laid in accordance with AS 3500.3:2003
- 6. All roof guttering/ down pipes / valley gutters / box gutters etc are to be sized and installed in accordance with AS 3500.3:2003
- 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 prior 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.
- 16. Flows from upstream properties entering the site are to be monitored during construction and diverted about the OSD system / residence etc as required.



SITE STORMWATER MANAGEMENT PLAN

Refer to plans by Gartner Trovato Architects for details of the proposed alterations and additions. All drainage works are to be sized and installed by a licensed plumber in accordance with NCC / BCA requirements and AS3500.3 specifications. OSD system as per Northern Beaches Councils Water Management for Development Policy Section 9.5.3.2 Full Computation Methods (refer DRAINS summary for details).1500l of OSD storage to be provide for each residence with outlet to adjacent Street kerb and guitter as per predevelopment conditions. BASIX storage / operation / detailing by others to be as per BASIX certificate. A regular inspection and servicing schedule is to be adopted to ensure the continued system effectiveness.

PROJECT: PROPOSED **ALTERATIONS AND ADDITIONS**

DRAWING: STORMWATER MANAGEMENT

Site area

Existing impervious area

Existing Site Discharge

20% AEP (5yr) Storm

1% AEP (100yr) Storm

20% AEP (5yr) Storm

1% AEP (100yr) Storm

Post Development Site Discharge

Proposed impervious area

Detention Volume modeled

Job No :
250703

SW1_{DA} Document Certification Barrenjoey Consulting Engineers pty ltd LUCAS MOILOY MIEA CPENG NER Director

Drawing No

No 15 Tourmaline St

100m2 (0m2 modeled)

196.7m2

147m2

1500I

9 l/s

14 l/s

3 l/s via OSD

7 I/s TOTAL

4 l/s via OSD

11 I/s TOTAL

7 l/s uncontrolled

4 l/s uncontrolled

ISSUE:			Barrenjoey Consulting Engineers pty ltd Stormwater Structural Civil
Prelim	30. 10. 2025	Issued for comment	Stormwater Structural Civil
DA	30. 10. 2025	Issued for DA submission	POBox 672
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			M: 0418 620 330
			E: lucasbce@bigpond.com
			ABN: 13124694917
			ACN: 124694917

21 LISLE ST / 15 TOURMALINE ST NARRABEEN

PLAN