

Site area - 520.8m2
Existing impervious area - 200 m2

note 0m2 modeled

Proposed impervious area - 374 m2
Area modeled to OSD - 445 m2
Detention Volume modeled - 8000l

**Existing Site Discharge** 

 5yr ARI Storm
 - 23 l/s

 100yr ARI Storm
 - 37 l/s

Post Development Site Discharge

5yr ARI Storm - 20 l/s TOTAL

(17 l/s via OSD, 3 l/s uncontrolled)

100yr ARI Storm - <u>23 l/s</u> TOTAL

(18 l/s via OSD, 5 l/s uncontrolled)

Noting - Compliance to Northern Beaches Council Water Management for Development Policy Section 5.5 Stormwater Disposal From Low level Properties (and Section 5.5.1.2.4 Level Spreader / Appendix 4) by restricting Post Development 1% AEP flows to 'Greenfields' 5% AEP event runoff ( ~ 40% reduction from actual predevelopment conditions).

## SITE STORMWATER MANAGEMENT PLAN

~ 1:100

All works to be of a conventional nature as per NCC / BCA and AS3500.3 requirements. Compliance to Northern Beaches Council Water

Management for Development Policy Section 5.5 Stormwater Disposal

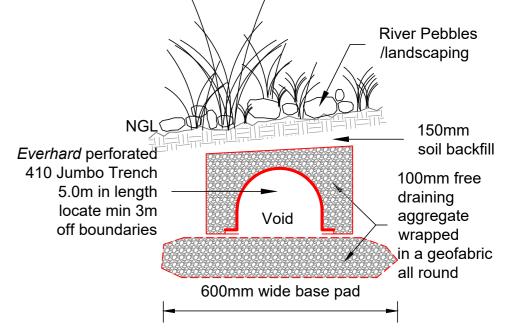
From Low level Properties (and Section 5.5.1.2.4 Level Spreader /

Appendix 4) using a 8000l OSD system with all roof areas and total of area of 445m2 to be connected to the OSD system.

Noting neighbours approached but not agreeable to the establishment of a drainage easement to Cumberland Ave / Councils system.

OSD disposal to be to a dispersion / level spreader system in rear of site, located in a manner to mimic predevelopment conditions.

Trunk lines / pipes shown above to all be 150 dia uPVC.



## LEVEL SPREADER DISPERSION TRENCH DETAIL

NTS

5.0m IN LENGTH TO BE LAID PARALLEL AND ALONG THE NATURAL CONTOUR OF THE SITE MIN 3M OFF BOUNDARIES
IN ACCORDANCE WITH A GEOTECHNICAL CONSULTANTS ADVICE

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PROJECT:

PROPOSED

NEW RESIDENCE

23 LANCASTER CRS

COLLAROY

for ~ TEDA FNQ pty ltd

DRAWING :

STORMWATER
MANAGEMENT PLAN

Job No :	
220405	

Drawing No : SW1<sub>DA</sub>

Document Certification

Barrenjoey Consulting Engineers pty ltd

per Lucas Molloy

MIEA CPEng NER Director

