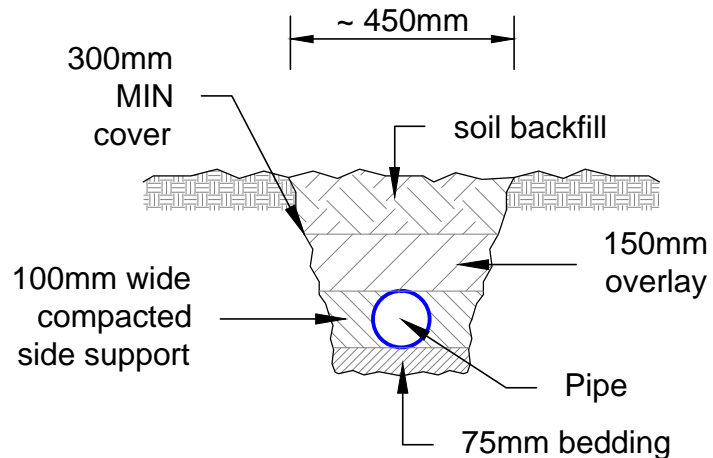


STORMWATER MANAGEMENT PLAN

~ 1:100

All new drainage including gutters, dps, pipes etc are to be sized and installed to AS3500.3 requirements by a licensed plumber with the outlet to the on site dispersion system.
dp + rwh - down pipe + rain water head

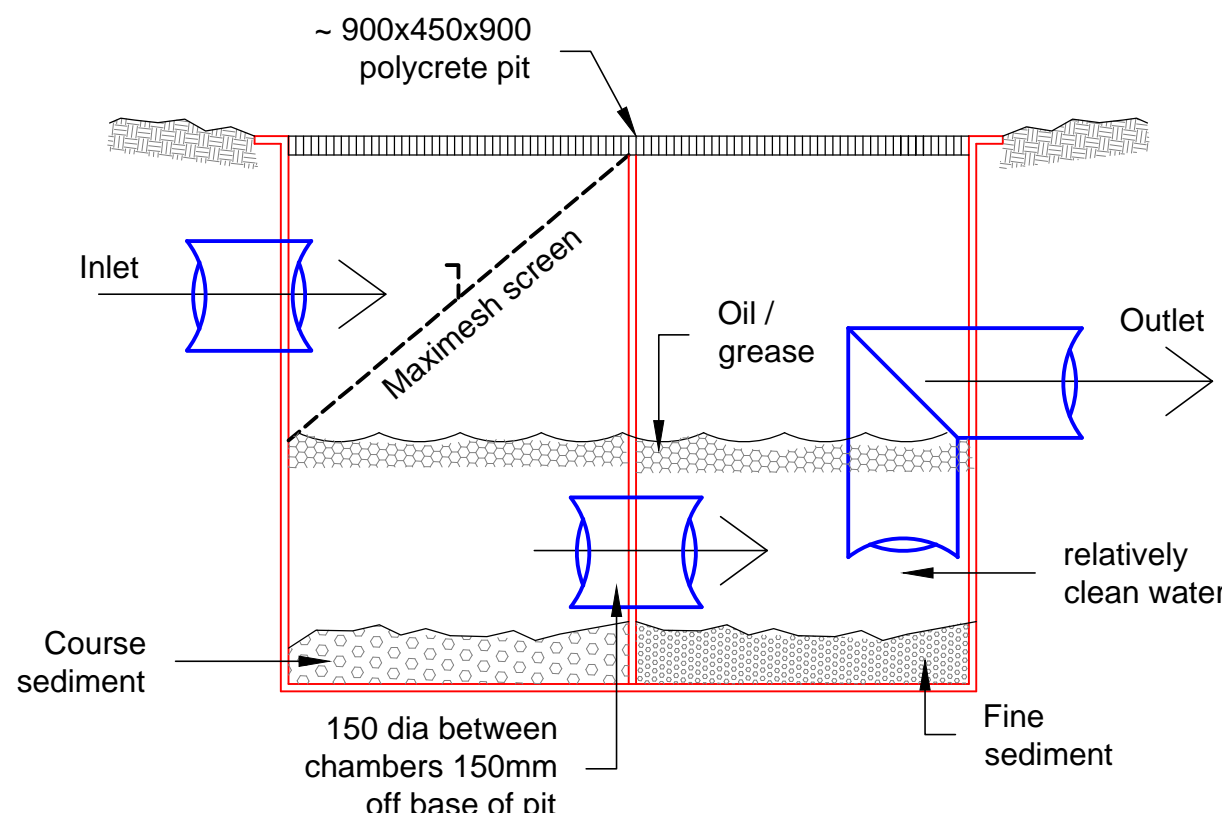
Note - residence structure to be suspended above ngls for potential floodwater ingress
NOTE - NO ON SITE DETENTION REQUIRED AS DISPOSAL DIRECTLY TO CAREEL CREEK



TYPICAL PIPE & TRENCH DETAIL

~ 1 : 20

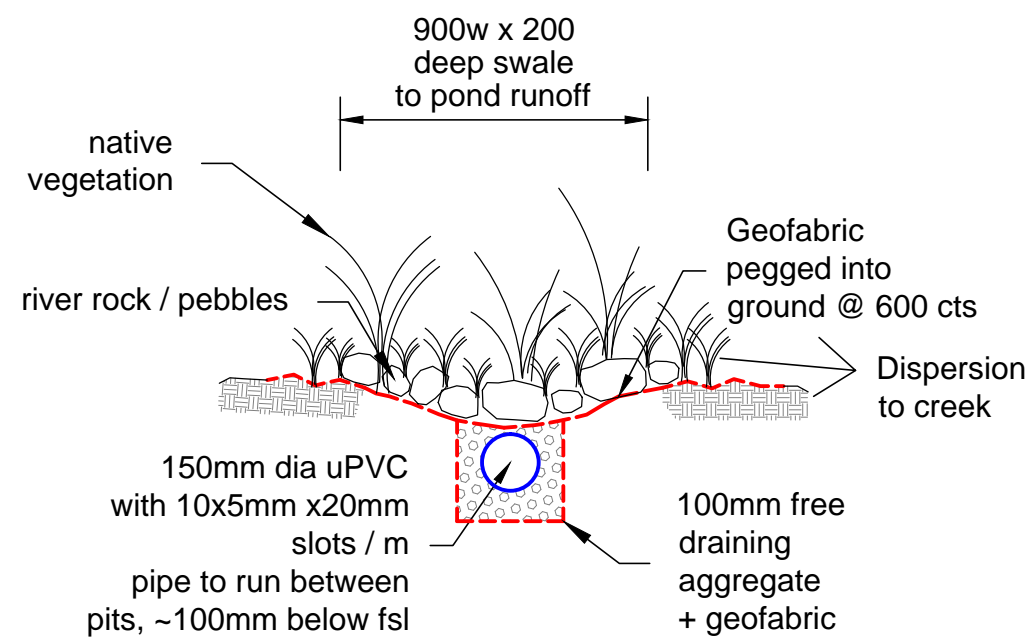
Note -
Bedding / overlay to be -
a) sand, free from rock, hard or sharp objects
b) max 14mm crushed rock or gravel
c) the excavated material free of rock, hard or sharp objects and broken up with no soil lumps > 75mm dia



OIL / GREASE SEPERATOR PIT DETAIL

NTS

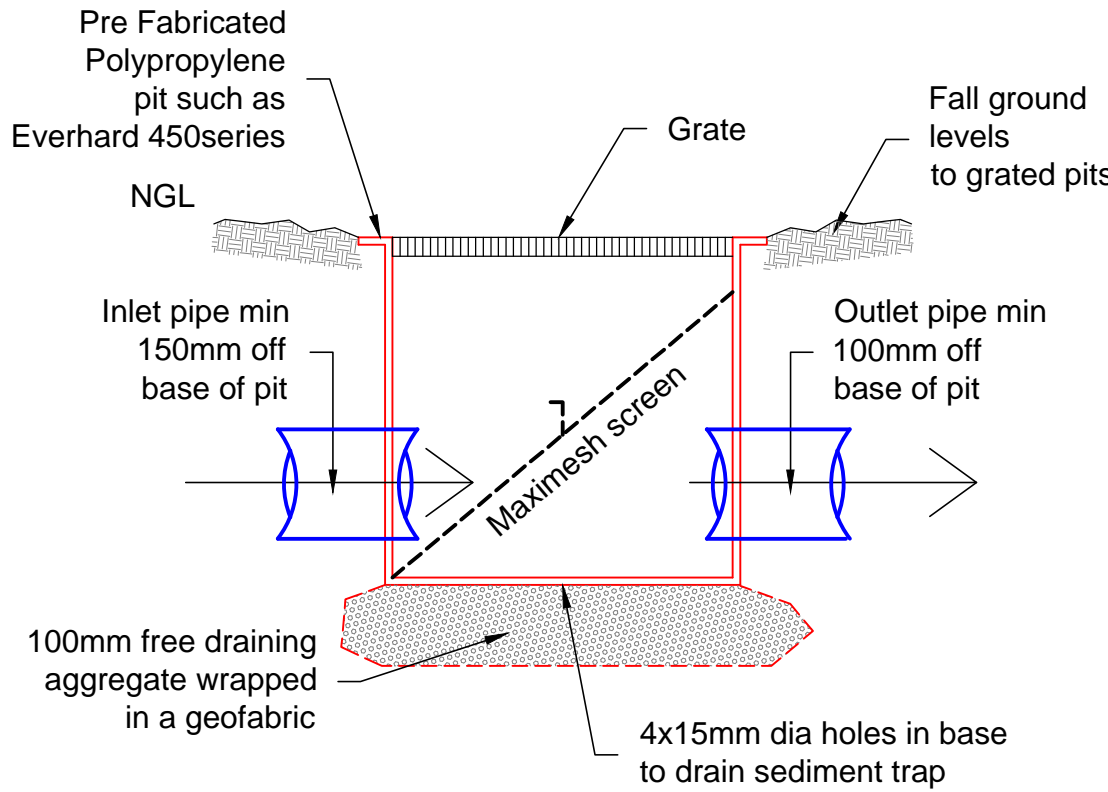
(to include service/maintenance schedule)



DISPERSION TRENCH BIOSWALE DETAIL

NTS

LAID PARALLEL AND LEVEL TO NATURAL CONTOURS ACROSS THE SITE



TYPICAL PIT DETAIL

NTS

STORMWATER NOTES

1. All roof collection components (ie gutters / DPs etc)are to be located / sized by the Developments Hydraulic Consultant for a 5% AEP event capacity.
2. All Trunk Drainage pipes, as shown on this plan are to be minimum of 90mm dia 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. Thrust blocks to be installed to the trunk drainage pipes in accordance with AS 3500.3:2003.
7. All roof guttering/ down pipes / valley gutters / box gutters etc are to be sized and installed in accordance with AS 3500.3:2003.
8. 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 outlet pipe .
9. All pits greater than 600mm in depth are to be proprietary precast concrete (approved by the Engineer).
10. All pits greater than 1000mm in depth are to have adequate access requirements in accordance with OH&S/Workcover requirements (ie; minimum dimensions 900x600mm with step irons).
11. All works are to be inspected and certified by the Principle Certifying Authority prior to backfilling.
12. 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.
13. The system is to be flushed and cleaned of all sediment and debris annually.
14. The system will require regular cleaning and maintenance to ensure its ability to function is maintained.
15. 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 an engineer every 20yrs.
16. 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.