

PART SITE PLAN ~ 1:200

As per Pittwater 21DCP Water Management Section B5.7, new pervious (hard) surface area total is approx 75m2 therefore a 2500l OSD storage tank system is required (independently derived using DRAINS software). All roof runoff is to be directed to the OSD tank via the BASIX required 2500l tank (inc first flush sediment control system). As per Pittwater 21DCP Water Management Section B5.8 the tank outlet is to be directed to a sediment collection pit and onto the existing rock lined watercourse. As per Pittwater 21DCP Water Management Section B5.11 the outlet is to be located within the existing rock lined (to act as energy diffuser) watercourse. All new drainage including gutters, dps, pipes etc are to be sized and installed to AS3500.3 requirements by a licensed plumber.



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PROJECT:

PROPOSED
SECONDARY DWELLING
54 IRRUBEL RD
NEWPORT
for ~ V. KING

DRAWING:

STORMWATER MANAGEMENT PLAN Job No: 171107

Drawing No : SW1

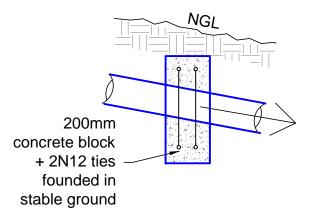
Document Certification

Barrenjoey Consulting Engineers pty ltd per

Lucas Molloy MIEA CPEng NER Director

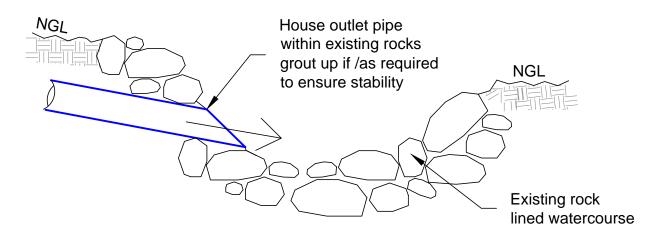
STORMWATER NOTES

- All roof collection components (ie gutters / DPs etc) are to be located / sized by the Developments Contracting Plumber for a 5% AEP event capacity. For example a 70x100 gutter draining to a 100dia or 75x70 dp has a capacity to drain 32.5m2 of roof area.
- 2. All Trunk Drainage pipes as shown on this plan 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. 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).
- 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 20vrs.
- 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.



ANCHOR BLOCK DETAIL

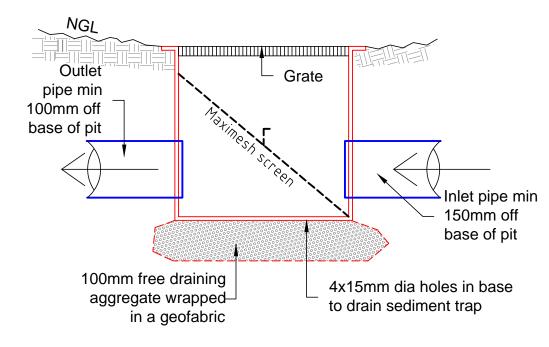
to be installed at 6m cts if pipe slope > 1v to 5h



OUTLET TO WATERCOURSE

location tbc during construction in consultation with the Geotechnical consultant

NGL



150mm overlay Pipe 100mm wide compacted side support TYPICAL ...DYC DIDE

~ 450mm

soil backfill

TYPICAL uPVC PIPE & TRENCH DETAIL

~ 1:20

TYPICAL PIT DETAIL

NTS

Pit to be Pre Fabricated Polypropylene pit such as Everhard 450 series

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

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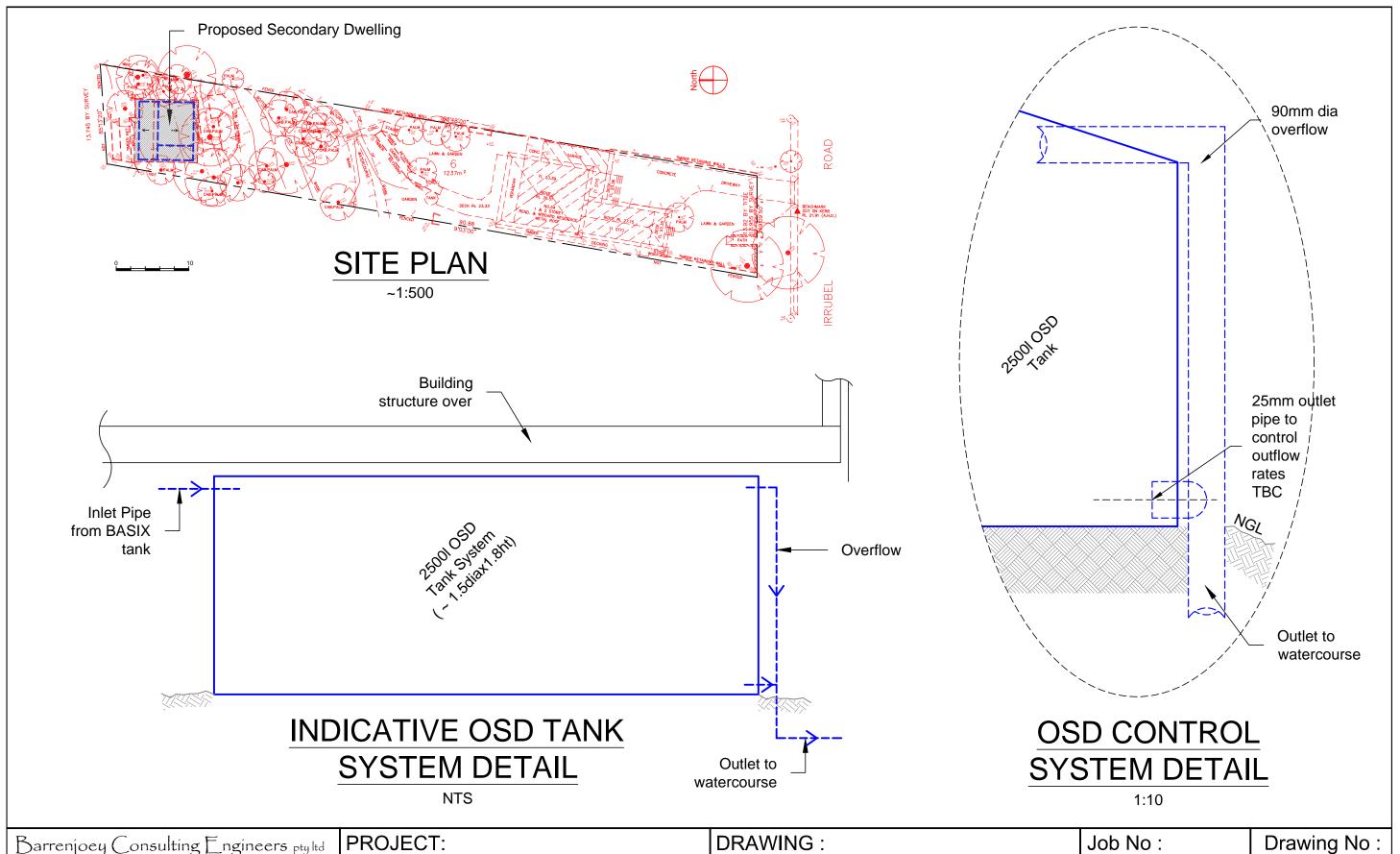
STORMWATER MANAGEMENT DETAILING 1 Job No :

Drawing No : SW2

Document Certification

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PROPOSED SECONDARY DWELLING 54 IRRUBEL RD **NEWPORT** for ~ V. KING

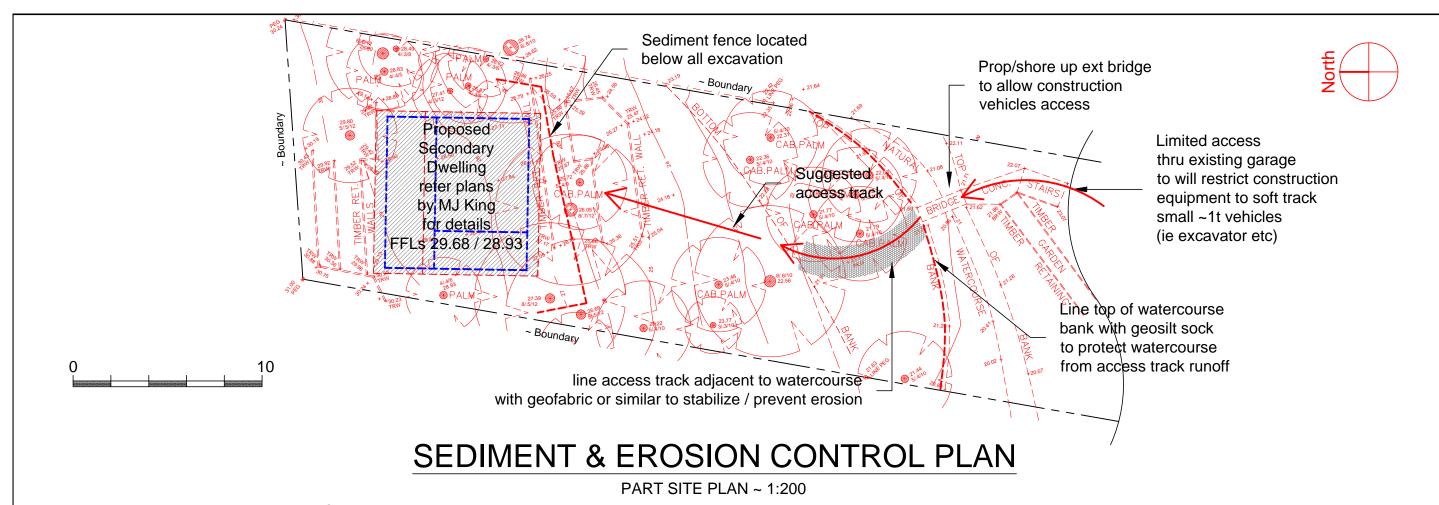
STORMWATER MANAGEMENT DETAILING 2

Drawing No: SW3

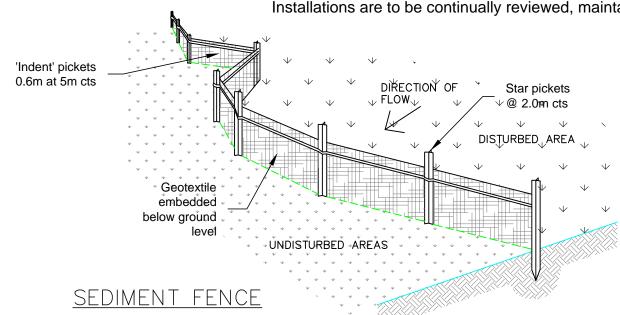
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Sediment and erosion control measures are to be installed prior to any excavation works are carried out on site. Installations are to be continually reviewed, maintained, upgraded to ensure satisfactory control of sediment and erosion.



SEDIMENT FENCE CONSTRUCTION NOTES:

- CONSTRUCT SEDIMENT FENCES AS CLOSE AS POSSIBLE TO BEING PARALLEL TO THE CONTOURS OF THE SITE, BUT WITH SMALL RETURNS AS SHOWN IN THE DRAWING TO LIMIT THE CATCHMENT AREA OF ANY ONE SECTION. THE CATCHMENT AREA SHOULD BE SMALL ENOUGH TO LIMIT WATER FLOW.
- CUT A 150mm DEEP TRENCH ALONG THE UPSLOPE LINE OF THE FENCE FOR THE BOTTOM OF THE FABRIC TO BE ENTRENCHED.
- DRIVE 1.5m LONG STAR PICKETS INTO GROUND @ 2.5m INTERVALS (MAX.) AT THE DOWNSLOPE EDGE OF THE TRENCH. ENSURE ANY STAR PICKETS ARE FITTED WITH SAFETY CAPS.
- FIX SELF—SUPPORTING GEOTEXTILE TO THE UPSLOPE SIDE OF THE POSTS ENSURING IT GOES TO THE BASE OF THE TRENCH. FIX THE GEOTEXTILE WITH WIRE TIES OR AS RECOMMENDED BY THE MANUFACTURER. ONLY USE GEOTEXTILE SPECIFICALLY PRODUCED FOR SEDIMENT FENCING. THE USE OF SHADE CLOTH FOR THIS PURPOSE IS NOT SATISFACTORY.
- JOIN SECTIONS OF FABRIC AT A SUPPORT POST WITH A 150mm OVERLAP. BACKFILL THE TRENCH OVER THE BASE OF THE FABRIC AND COMPACT IT THOROUGHLY OVER THE GEOTEXTILE.

Barrenjoey Consulting Engineers Pty Itd Stormwater Civil

POBox 672

Structural

PROJECT:

PROPOSED SECONDARY DWELLING 54 IRRUBEL RD **NEWPORT** for ~ V. KING

DRAWING:

SEDIMENT & EROSION CONTROL PLAN

Job No:

Drawing No:

Document Certification

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