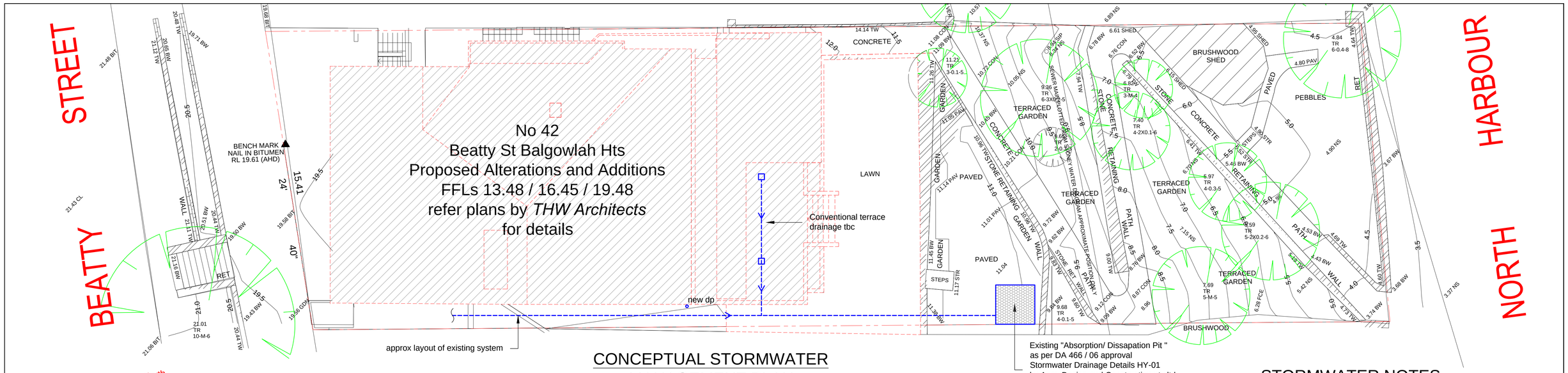


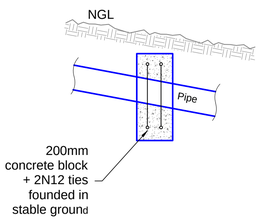
CONCEPTUAL STORMWATER MANAGEMENT PLAN

~ 1:100

Refer to plans by THW Architects for details of the proposed alterations and additions. dp location indicative and to be confirmed during construction. All new works to be installed by a licensed plumber in accordance with NCC / BCA requirements and to be connected to the existing outlet system (as per DA 466 / 06). Any existing system is to be identified and assessed / certified as operating satisfactorily by a licensed plumber during construction with all leaking/damaged etc components being repaired/replaced, including replacing any clay pipes with uPVC.

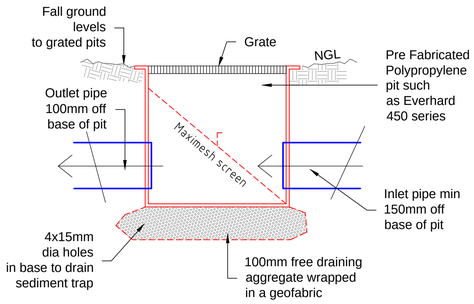
STORMWATER NOTES

1. All roof collection components (ie gutters / DPs etc)are to be located / sized by the Developments contracting Plumber for a **5% AEP** event capacity. (30m2 roof area per 90mm dp via Quad low front gutter).
2. Trunk lines shown on plan to be 90mm dia uPVC.
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).
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.
16. Flows from upstream properties entering the site are to be monitored during construction and diverted about the OSD system / residence etc as required.



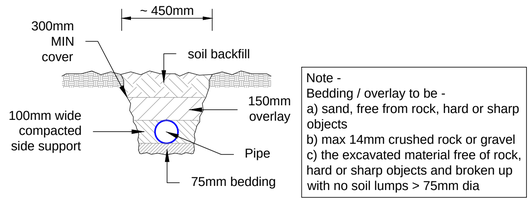
ANCHOR BLOCK DETAIL

TO BE INSTALLED AT 6m CTS
IF PIPE SLOPE > 1V TO 5H



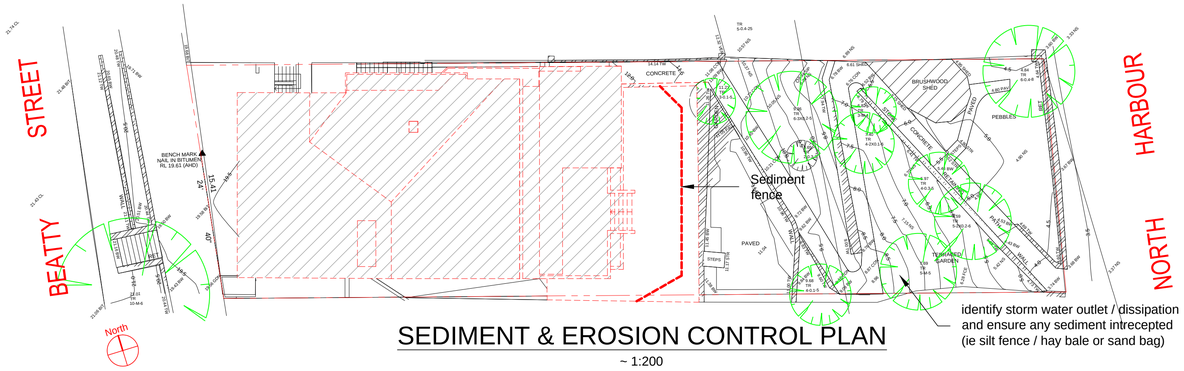
TYPICAL PIT DETAIL

~ 1:20



TYPICAL PIPE & TRENCH DETAIL

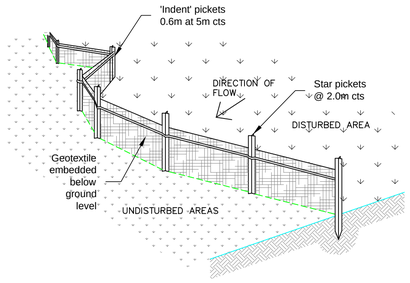
~ 1 : 20



SEDIMENT & EROSION CONTROL PLAN

~ 1:200

All excavation works to be carried out in a safe building manner in accordance with BCA and industry standards etc. Sediment and erosion control measures to be installed before any excavation works and monitored / improved continually to prevent sediment leaving the site, including immediate cleaning of spillage etc from vehicles leaving the property. All material stock piles to be protected from rainfall and runoff at all times.



SEDIMENT FENCE

SEDIMENT FENCE CONSTRUCTION NOTES:

1. 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.
2. CUT A 150mm DEEP TRENCH ALONG THE UPSLOPE LINE OF THE FENCE FOR THE BOTTOM OF THE FABRIC TO BE ENTRENCHED.
3. 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.
4. 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.
5. JOIN SECTIONS OF FABRIC AT A SUPPORT POST WITH A 150mm OVERLAP.
6. BACKFILL THE TRENCH OVER THE BASE OF THE FABRIC AND COMPACT IT THOROUGHLY OVER THE GEOTEXTILE.

A1

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PROJECT:
PROPOSED
ALTERATIONS & ADDITIONS
42 BEATTY ST
BALGOWLAH HEIGHTS
for ~ T. HUANG

DRAWING :
CONCEPTUAL STORMWATER MANAGEMENT PLAN
SEDIMENT & EROSION CONTROL PLAN

Job No : 200806

Drawing No SW1 DA

Document Certification
Barrenjoey Consulting Engineers pty ltd
per
Lucas Molloy MIEA CPEng NER Director
Sept 2020