

ISSUE:		
Prelim	19. 12. 2018	Issued for comment
Prelim A	23. 06. 2019	Re-issued for comment, new KIP + 375 RCP added

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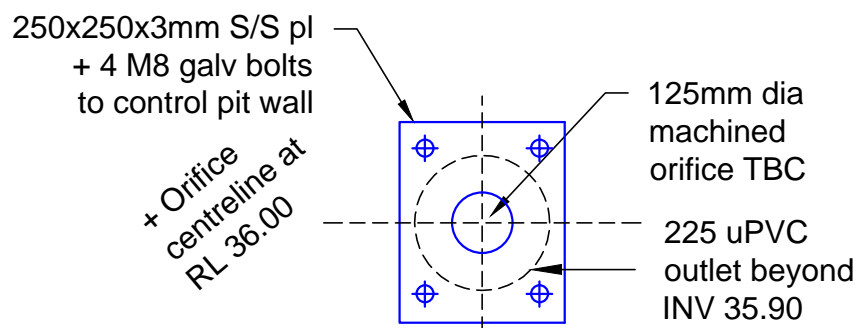
PROJECT:
PROPOSED SUBDIVISION
AND DRIVEWAY
7 TRENTWOOD PARK
AVALON BEACH
for ~ M & J DARGAVILLE

DRAWING :
4 LOT SUBDIVISION
FULL SITE STORMWATER
MANAGEMENT PLAN

Job No : 181208	Drawing No SW1 PreLim A
Document Certification Barrenjoey Consulting Engineers ptg ltd per Lucas Molloy MIEA CPEng NER Director	

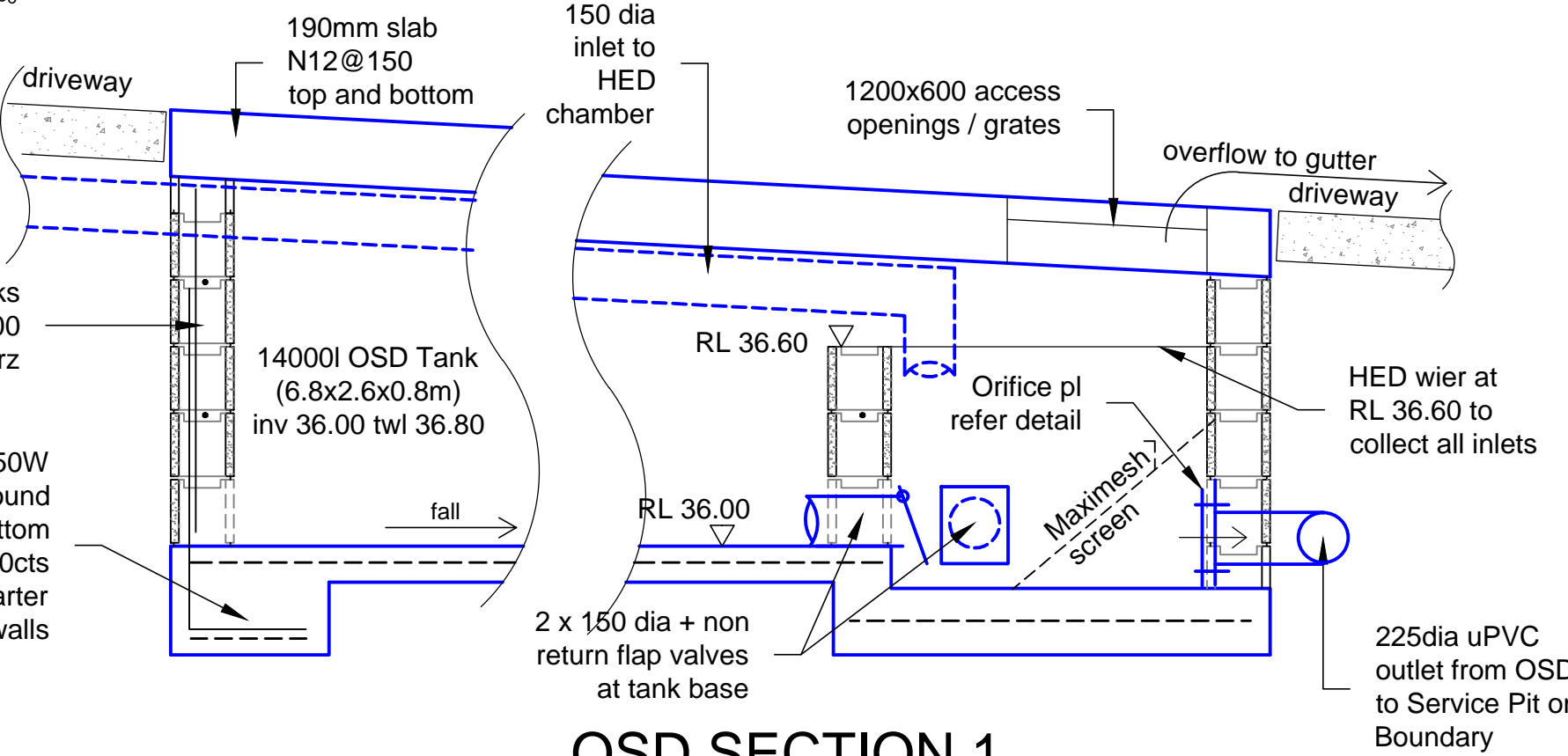
STORMWATER NOTES

1. All trunk drainage pipes as shown within this plan to be 150mm dia uPVC.
2. All roof collection components (ie gutters / DPs etc)are to be located / sized by the Developments contracting Plumber to AS 3500.3 requirements.
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 pipes on grades > 1:5 to have anchor blocks @ 6m cts.
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 900x900mm 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 too 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 a 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.



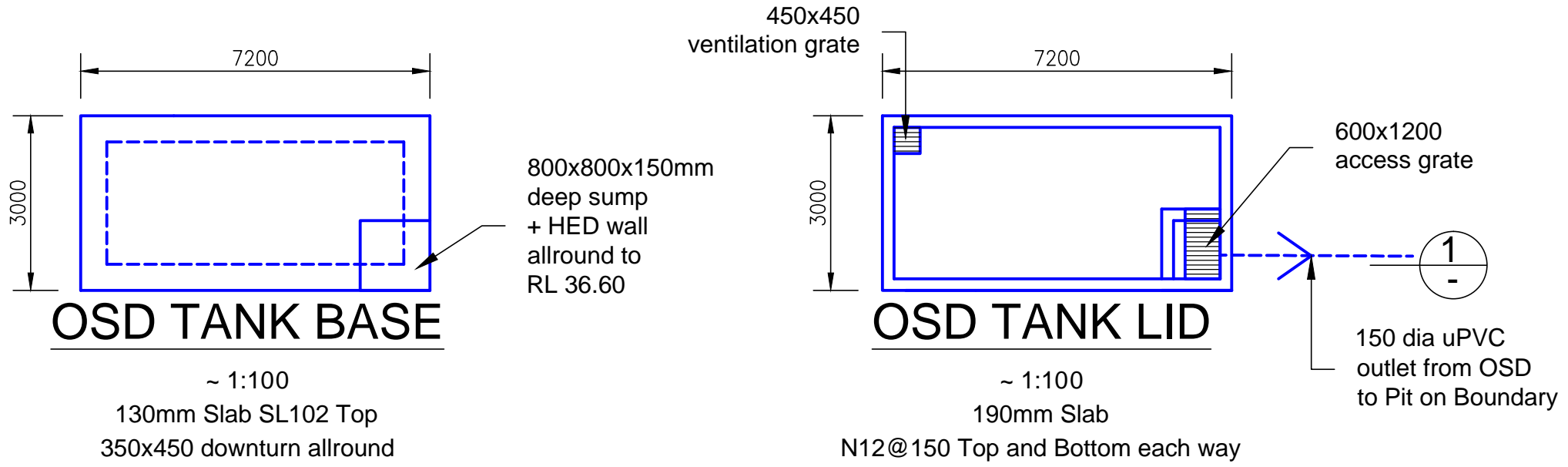
ORIFICE PLATE DETAIL

~ 1:10



OSD SECTION 1

~ 1:20



OSD TANK BASE

~ 1:100

130mm Slab SL102 Top
350x450 downturn allround

OSD TANK LID

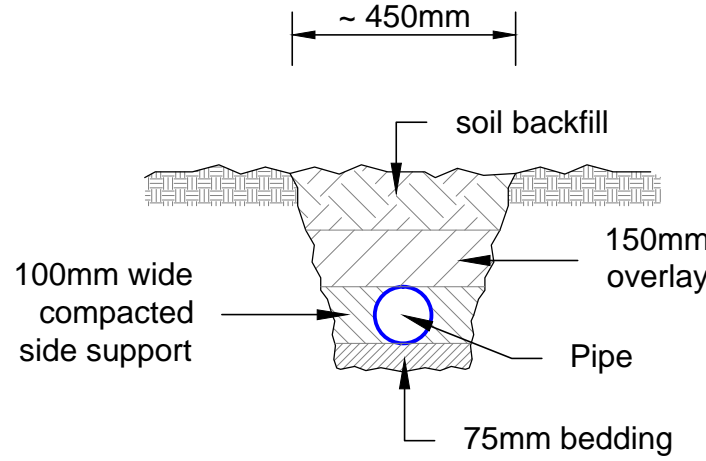
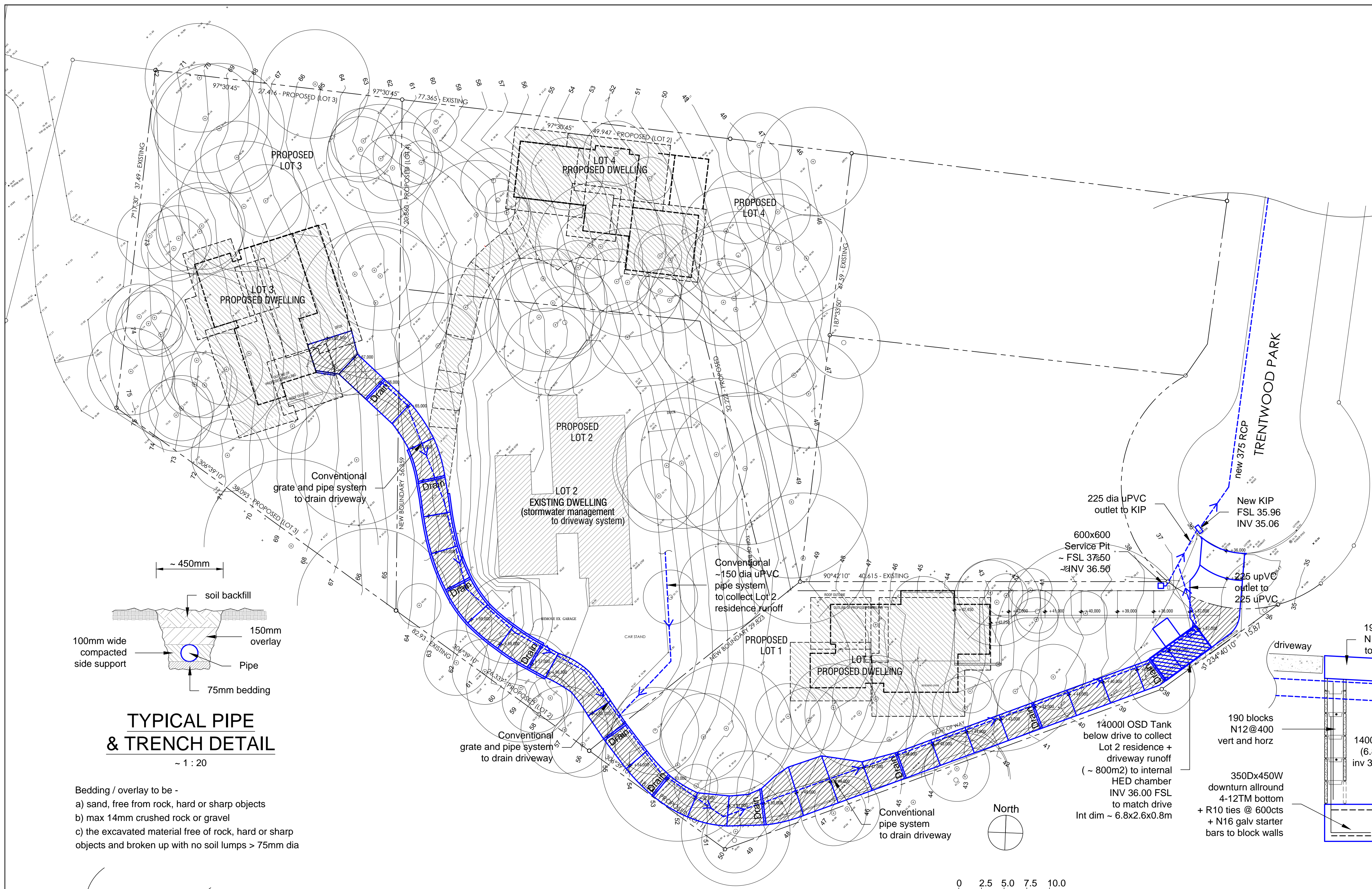
~ 1:100

190mm Slab
N12@150 Top and Bottom each way

LOT 2 & DRIVEWAY STORMWATER MANAGEMENT PLAN

~ 1:250

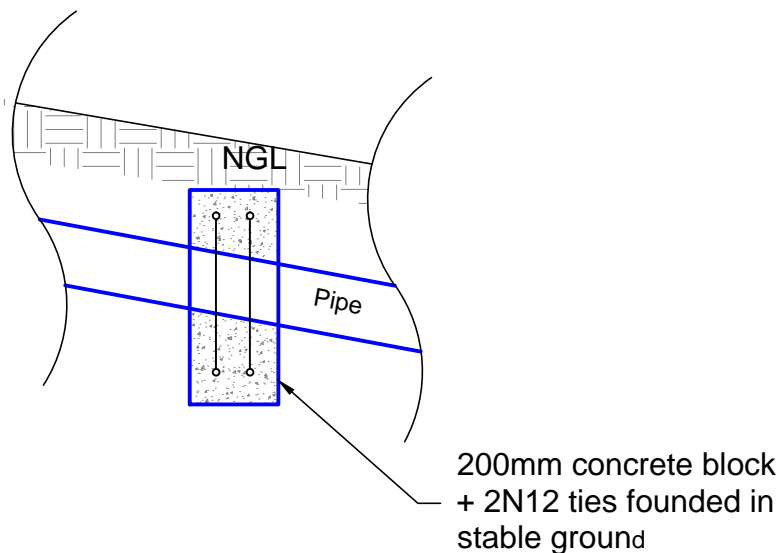
In association with the Development Application for the subdivision of 1 lot into 4 (+ new driveway) this plan details a conventional grated drain and piped system to collect flows generated off the proposed driveway and existing Lot 2 residence, to dispose of these flows through an onsite detention tank and onto the new KIP and pipe system in the Trentwood Park cul-de-sac. The OSD system has been designed/modelled in accordance with Section B5.7 of Pittwater 21DCP 'Independently derived OSD assessment' for a 310m2 increase in impervious area using the DRAINS software analysis. Variations (ie tank dimensions etc) to layout to be reviewed and approved by Barrenjoey Consulting Engineers before construction. All works to be carried out by licensed contractors. Flows from upstream properties entering the site are to be monitored during construction and diverted about the OSD system / residence etc as required.
DRAIN to be 250W x 150D grated drain to collect driveway runoff to the 150mm dia uPVC driveway trunk drainage pipe.



TYPICAL PIPE & TRENCH DETAIL

~ 1:20

- 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



ANCHOR BLOCK DETAIL

TO BE INSTALLED AT 6m CTS
IF PIPE SLOPE > 1V TO 5H
ALT FIX PIPE TO DRIVE STRUCTURE

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