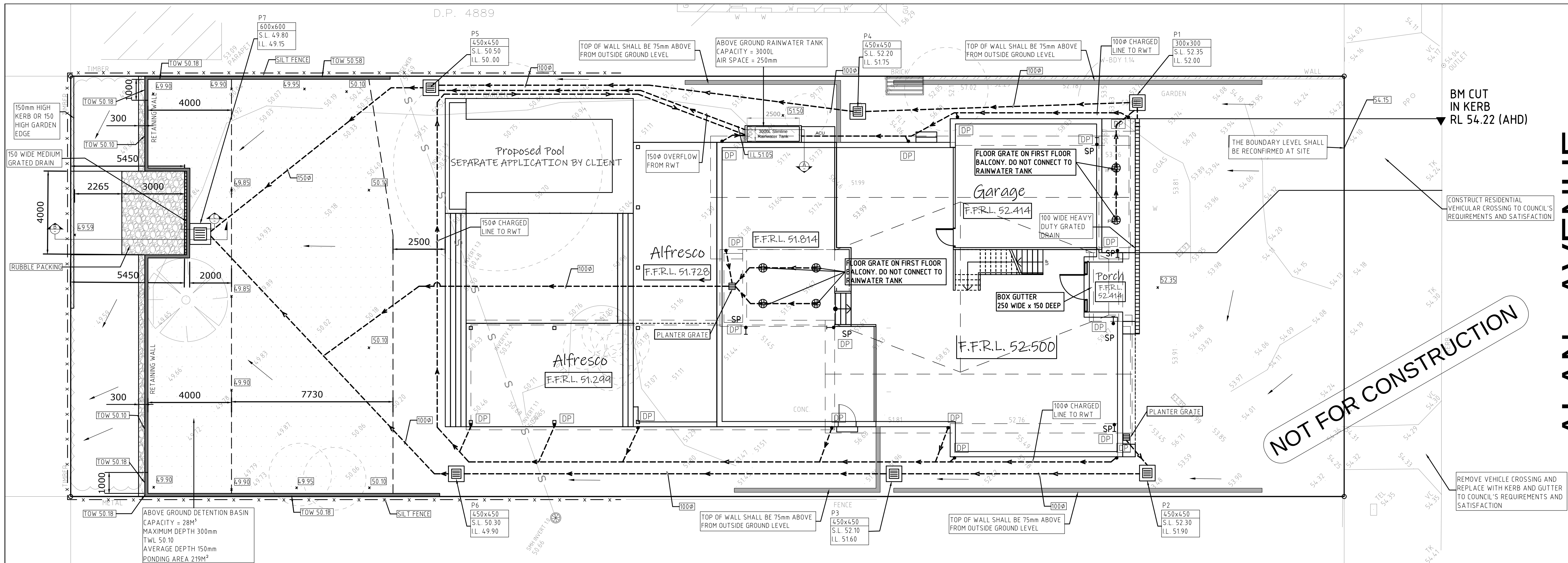




STORMWATER DRAINAGE LAYOUT PLAN

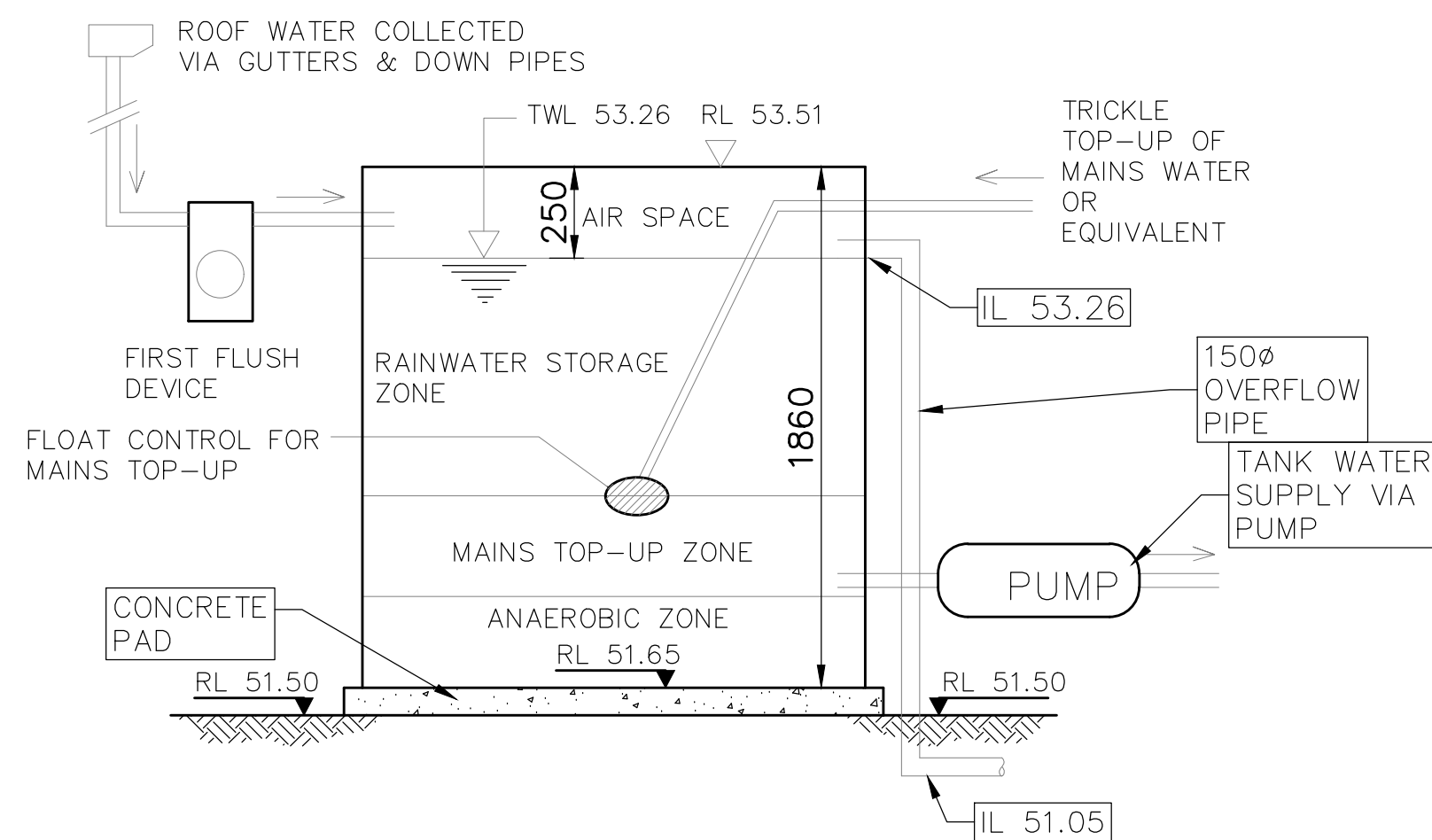
SCALE: - 1:100 @ A1

OSD CALCULATION

- THE DRAINS MODEL HAS BEEN USED TO CALCULATE THE PSD AND THE OSD VOLUME.
- TOTAL SITE AREA = 1226.30m²
 - PRE DEVELOPMENT IMPERVIOUS AREA = 0m² (ASSUMED AS 0)
 - POST DEVELOPMENT IMPERVIOUS AREA = 635m²
 - % POST DEVELOPMENT IMPERVIOUS AREA = 52
 - PSD (FOR ALL THE STORM EVENTS UP TO 1 IN 100 YEAR ARI) SHALL BE 1 IN 5 YEAR ARI STORM EVENT FLOW AT THE "STATE OF NATURE".
 - PSD = 23 L/S
 - THE OSD HAS BEEN DESIGNED AS ABOVE GROUND DETENTION BASIN
 - TOTAL BYPASS AREA FROM THE OSD SYSTEMS IS 70m² (100% PERVIOUS)
 - TOTAL AREA TO THE ABOVE GROUND OSD BASIN IS 1156 m² (% IMPERVIOUS AREA IS 55)
- THE RESULTS FROM THE DRAINS MODEL ARE AS FOLLOWS :

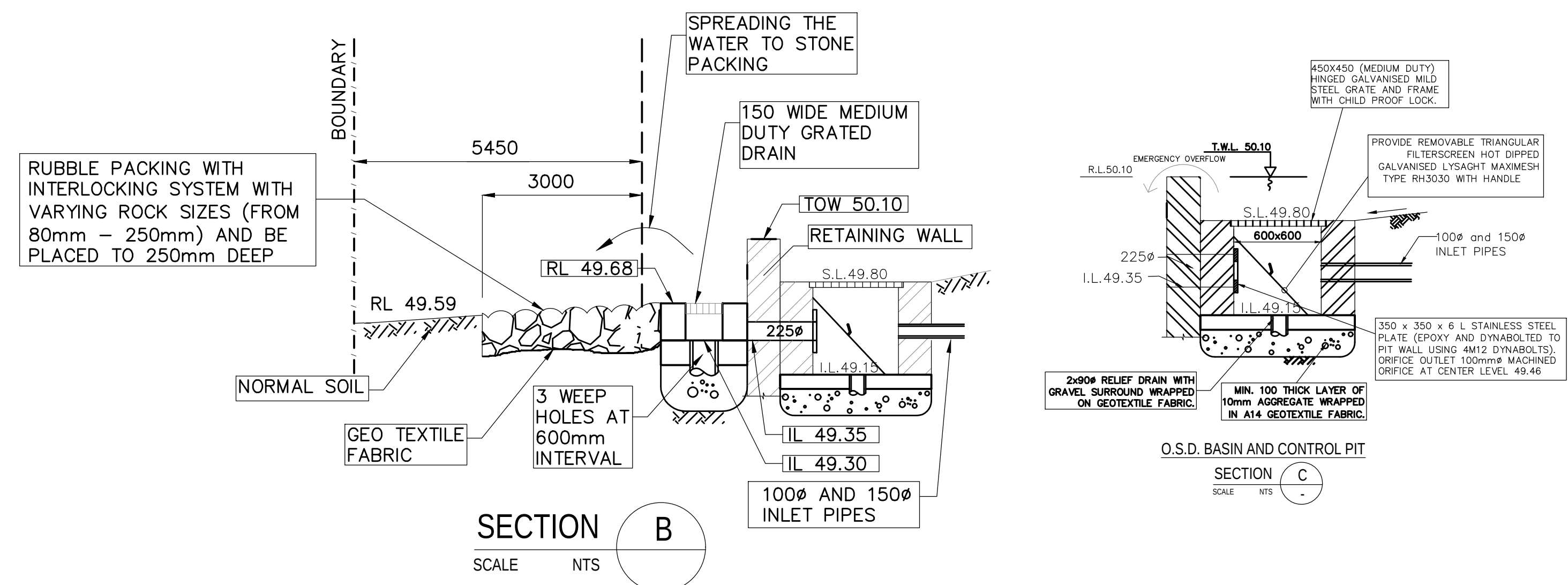
ARI (YEAR)	OSD FLOW (L/S) FROM OSD BASIN	BY PASS FLOW (L/S)	TOTAL FLOW (L/S)
5	15	2	17
20	16	3	19
50	17	3	20
100	18	3	21

- TOTAL OSD VOLUME REQUIRED TO CONTROL ALL STORM EVENTS UP TO AND INCLUDING 1 IN 100 YEAR ARI STORM EVENT FOR THE PSD OF 23 L/S = 28m³
- OSD VOLUME REQUIRED = 28m³
- OSD PROVIDED IN THE ABOVE GROUND BASIN = 28m³
- ORIFICE DIAMETER (ABOVE GROUND BASIN) = 100mm



RAINWATER TANK DETAIL (SECTION A)

NOT TO SCALE



				DESIGN BY: VNK CONSULTING PTY LTD PO BOX 9118 HARRIS PARK NSW 2150 Mobile: 0401 132 386 Email: VNKCONSULTING@GMAIL.COM	Drawing Title: STORMWATER DRAINAGE LAYOUT PLAN - 1		DESIGNED: NL DRAWN: INO DATUM: AHD DATE: 29.11.2022	Project: PROPOSED DWELLING 24 ALAN AVENUE SEAFORTH NSW 2092	Ref No. 291122-01 Issue: C
C	17.06.2023	RE-ISSUED FOR DA APPROVAL	INO						
B	18.05.2023	RE-ISSUED FOR DA APPROVAL	INO						
A	29.11.2022	ISSUED FOR DA APPROVAL	INO						
Issue	Date	Description	BY	QUALIFICATIONS: BscEng, MEng, MEngStud, M.ASCE, MIEAust, CPEng, NER					SHEET 1 of 2

