

GENERAL NOTES

- DO NOT SCALE THIS DRAWING. WORK ONLY TO FIGURED DIMENSIONS.
- FOR ALL RELEVANT NOTES, REFER TO STRUCTURAL AND CIVIL ENGINEERING PERFORMANCE SPECIFICATION.
- ANY DISCREPANCIES ARE TO BE REPORTED TO PINNACLE CONSULTING ENGINEERS IMMEDIATELY.
- THIS DRAWING IS TO BE READ IN CONJUNCTION WITH ALL OTHER RELEVANT ENGINEERS, ARCHITECTS AND SUB-CONTRACTOR DRAWINGS AND DETAILS.



REV DESCRIPTION BY CHK DATE
 CLIENT
KELLAND HOMES LTD.

PROJECT
CLONBURRIS SDZ

DRAWING TITLE
SURFACE WATER CATCHMENT LAYOUT

PINNACLE CONSULTING ENGINEERS

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DRAWING STATUS
FOR PLANNING
 SCALE @ A1 DATE 19.05.22 DRAWN BY FJVR CHECKED SO
 DRG NO. P200306-295 REVISION A
 REF: P200306

ATTENUATION STORAGE VOLUMES PROVIDED

CATCHMENT	POND (m³)	TANK (m³)	PERMEABLE PAVING (m³)	TOTAL VOLUME PROVIDED (m³)	DBFL DESIGN VOLUME (m³)
4CCc/1			145	2375	2200
4CCc/2		2200	30		
4CCc/3			50		
4CCB	807		60	867	807
4CCA/1			2715		
4CCA/2	770		813	770	770
			TOTAL	4012	3777

SITE CATCHMENT AREAS

CATCHMENT	TOTAL AREA (m²)	IMPERVIOUS AREA (m²)	% IMPERVIOUS	PERMEABLE PAVING AREA (m²)	% PERMEABLE PAVING	PERVIOUS AREA (m²)	% PERVIOUS	DRAINS TO
4CCc/1	31 252	13 331	4.3%	2 500	8%	15 420	49%	ATTENUATION TANK IIC
4CCc/2	1 851	1302	70%	-	-	549	30%	ATTENUATION TANK IIC
4CCc/3	7 539	3 826	50%	500	7%	3 213	43%	ATTENUATION TANK IIC
4CCB	17 803	5 815	33%	1000	6%	10 988	61%	ATTENUATION TANK IIB
4CCA/1	4 740	2 025	43%	-	-	2 715	57%	ATTENUATION POND IIA
4CCA/2	8 133	7 320	90%	-	-	813	10%	ATTENUATION POND IIA
TOTAL	71 518	33 619	47.15%	4 000	5.60%	33 698	47.25%	

EXTERNAL WORKS LAYOUT

SURFACE TYPE	HATCH	CO-EFFICIENT
ROOFS	[Hatch]	1.0
ROADS	[Hatch]	0.8
WALKWAYS	[Hatch]	0.8
PERMEABLE PAVING	[Hatch]	0.6
LANDSCAPING	[Hatch]	0.0
LINK ROAD	[Hatch]	0.8
LINK ROAD SIDEWALK	[Hatch]	0.8

ALLOWANCE FOR 6.5L/S INFLOW FROM CARPARK AS PER DBLF DESIGN

4CCc/2 TOTAL 1 851 m² IMPERVIOUS 1 302m² (70%) PERVIOUS 549m² (30%)

4CCc/3 TOTAL 7 539 m² IMPERVIOUS 3 826m² (50%) PERMEABLE PAVING 500 m² (7%) PERVIOUS 3 213m² (43%)

30m³ ADDITIONAL ATTENUATION STORAGE PROVIDED IN PERMEABLE PAVING

155L/S HYDROBRAKE AS PER DBLF DESIGN

4CCc/2 TOTAL 8 133 m² IMPERVIOUS 7 320m² (90%) PERVIOUS 813m² (10%)

770m³ STORAGE POND AS PER DBLF DESIGN (ATN IIA)

163.56L/S HYDROBRAKE AS PER DBLF DESIGN

16.5m³ ADDITIONAL ATTENUATION STORAGE PROVIDED IN PERMEABLE PAVING

4CCc/1 TOTAL 31 252 m² IMPERVIOUS 13 331m² (51%) PERMEABLE PAVING 2000 m² (6%) PERVIOUS 15 420m² (49%)

2200m³ STORAGE TANKS AS PER DBLF DESIGN (ATN IIC)

60m³ ADDITIONAL ATTENUATION STORAGE PROVIDED IN PERMEABLE PAVING

4CCB TOTAL 17 803 m² IMPERVIOUS 5 815m² (33%) PERMEABLE PAVING 1000 m² (6%) PERVIOUS 10 988m² (61%)

807m³ STORAGE TANKS AS PER DBLF DESIGN (ATN IIB)

130.53L/S INFLOW FROM HIGHER CATCHMENTS AS PER DBLF DESIGN