	Tel. 013	Tel. 01332 871840		Project No.		Sheet No.				
& ASSOCIATES LTD Civil and Structural Engineers & Design Consultants				Date	Date		24-115		1	
				Date.	April 2024					
oject.	ct. RMA Sandhurst - Football pi					By. MOH	Checked. ND	Revision. A - 16.04.20)24	
Disch						arge through entire pitch sub-base				
Consider	Area to be c	Irained = 8	127 M			•	0	•		
30 yea	ar + 35% climate	change								
<u>Flow</u>	Time	M5-D	Z2	M100-D	Inflow		Outflow	Storage		
	(min)	20mm x Z1	factor	(mm)	M ³	↓ ∟	M ³	M ³		
	5	7.6	1.465	11.1	122.1		3.9	118.27		
	10	10.8	1.497	16.2	177.4		7.7	169.70		
	15	12.6	1.512	19.1	209.0		11.6	197.44		
	30	16.0	1.530	24.5	268.6		23.2	245.43		
	60	20.0	1.543	30.9	338.7		46.3	292.34		
	120	24.0	1.535	36.8	404.3		92.6	311.66		
	240	29.2	1.517	44.3	486.1		185.2	300.86		
	360	32.0	1.504	48.1	528.0		277.9	250.17		
	600	36.6	1 481	54.2	594.6		463 1	131 47		
	1440	45.6	1 4 3 9	65.6	719.8		1111 4	0		
	Ratio r =	0.4 (Eor lo	nality)	Climate	change allo		35%	•	1	
Infiltration rate:0.0001206 m/minSoakaway details:64 m wide 100 m length 0.38 m deep Assume void ratio 0.4Available storage under pitch (based on 1:200 fall):802.00 m³Available storage within drainage system:70.00 m³Available storage area =872.00 m³Surface area:6400 m²										
Eff volur Addition Half drai (soakaw	Eff volume: 872.00 m° > 311.66 m° OK Additional storage volume required: -560.34 m ³ Half drain down time 24226.9 secs 6.7297 hours (soakaway only):									
Total Storage required = approx. 312m3. Storage currently provided = 512m3. No additional storage required. This volume will accommodate flows from all modelled 1 in 30 year + 35% climate change events.										
In or	In order to meet building regulation stanards, a half drain-down time of 24 hours should be achieved. This requirement is met at the site.									
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