MICHAEL EVANS					Tel. 01332 871840			Sheet No.		
& ASSOCIATES LTD Civil and Structural Engineers & Design Consultants				Date.	Date. April 2024		24-115		1	
ct.	RMA Sandhurst - Football pit					By. MOH	Checked. ND	Revision. A - 16.04.20)24	
Consider Area to be drained = 8127 m ²						ischarge through entire pitch sub-base				
100 vez	r + 40% climat	a change								
<u>Flow</u>	Time	M5-D	Z2	M100-D	Inflow		Outflow	Storage		
<u></u>	(min)	20mm x Z1	factor	(mm)	M ³		M ³	M ³		
	5	7.6	1.862	14.2	161.0	1	3.9	157.15		
	10	10.8	1.926	20.8	236.7		7.7	228.95		
	15	12.6	1.958	24.7	280.7		11.6	269.12		
	30	16.0	1.998	32.0	363.7		23.2	340.57		
	60	20.0	2.030	40.6	461.9		46.3	415.63		
	120	24.0	2.014	48.3	550.0		92.6	457.34		
	240	29.2	2.014 1.978	40.3 57.8	657.2		92.0 185.2	471.91		
	360	32.0	1.954	62.5	711.4		277.9	433.57		
	600	36.6	1.914	70.1	797.0		463.1	333.94		
	1440	45.6	1.842	84.0	955.7		1111.4	0		
L	Ratio $r =$	0.4 (For lo	-		change allow		40%	0		
Soakaway details: 64 m wide Assume void ra			100 atio 0.4	m length	0.38 m deep .: 972.80 m ³					
Available	C	ider pitch (bas thin drainage ea = 87		9 fall): 8(70.00	02.00 m ³					
Surface a	area:	6400 m ²								
Eff volume: 872.00 m ³ > 471.91 m ³ OK										
Addition	al storage v	olume require	d: -4	00.09 m ³						
Half draiı (soakawa	n down time ay only):	e 36684.	8 secs	10.1902	hours					
Total	Storage rec	luired = appro		Storage curre		led = 512ı	m3. No ao	dditional		
		commodate flo building regu achieve	lation stana		rain-down t	ime of 24				
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