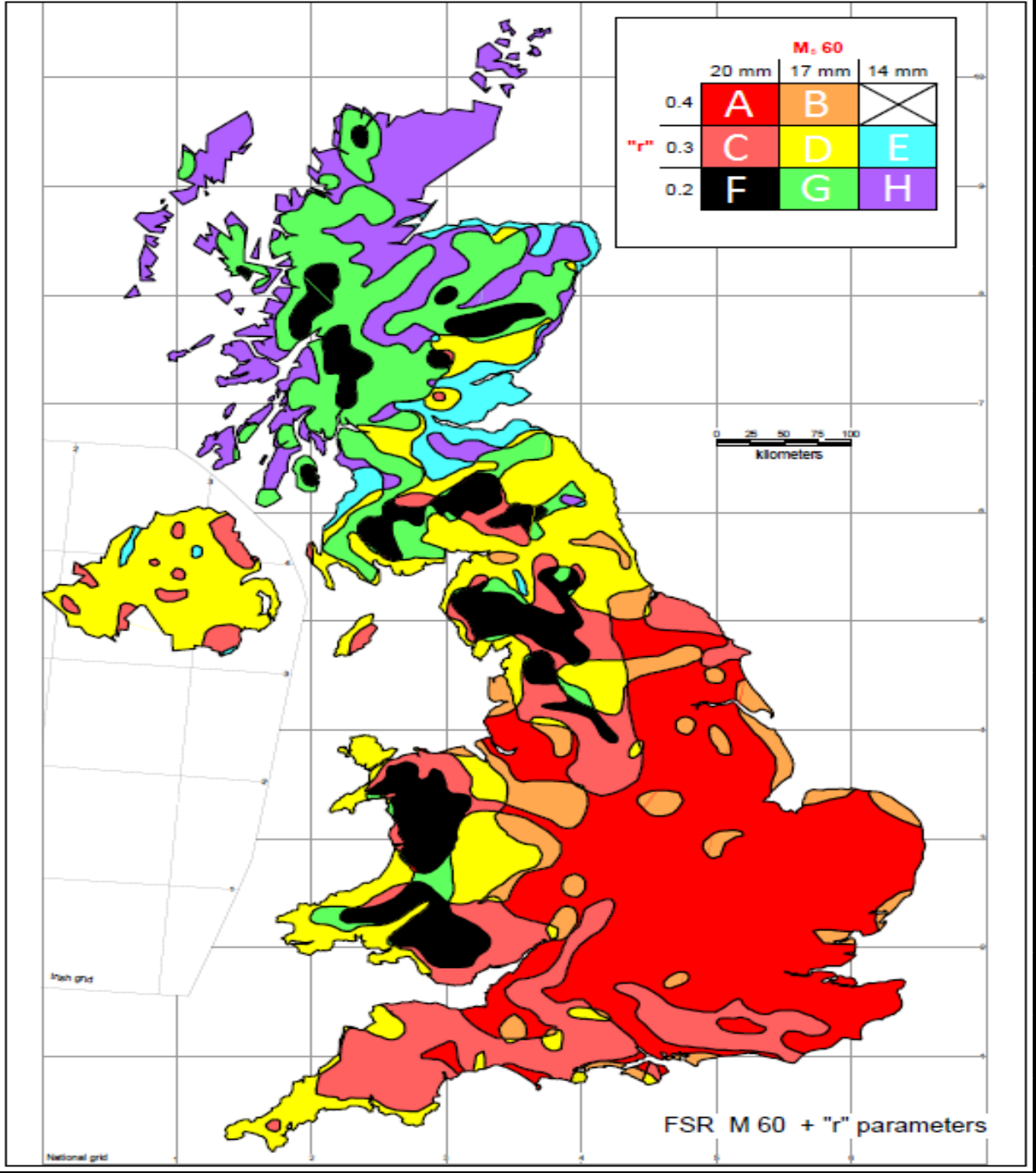


	Project:	Residential Development, Baran Road, Rhydafro	By: DH
	Calculation:	Trench 4 Design	
			Approved:
	Sheet Number:	1	Date: 26/10/19

Catchment Details		
Catchment Area	75	m²
Runoff Coefficient	1	
Location Code	F	
Return Period	100	years
Climate Change Factor	30	%

UK Rainfall Map



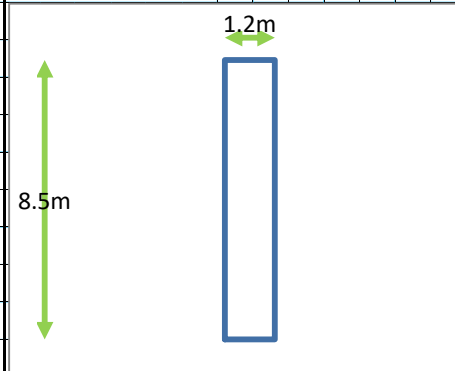
Ground Information

Infiltration Rate	0.0626	m/hr
Factor of Safety	2	

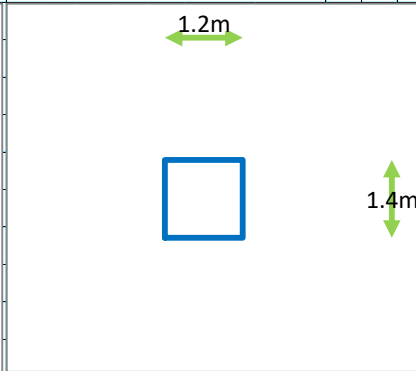
Soakaway Design

Soakaway Shape	Rectangular Trench/Pit	
Number of Soakaways	1	
Length	8.5	m
Width	1.2	m
Effective Depth	1.4	m
Void Percentage	30	%
Additional Outflow (If Any)	0	l/s
Base Infiltration Factor	1	

Soakaway Plan



Soakaway Cross Section



Results Table

Storm Duration (Mins)	Inflow (l)	Outflow (l)	Storage Required (m³)
5	905	62	0.84
10	1,456	124	1.33
15	1,887	186	1.70
30	2,789	372	2.42
45	3,437	558	2.88
60	3,949	744	3.20
120	5,324	1,489	3.83
240	6,864	2,978	3.89
480	8,580	5,956	2.62
600	9,360	7,445	1.92
1440	12,168	17,868	0.00

Acceptable

Storage Area Required 3.89 m³

Storage Area Provided 4.28 m³

Acceptable

Time for Emptying 50% 2.6 hours

Acceptable