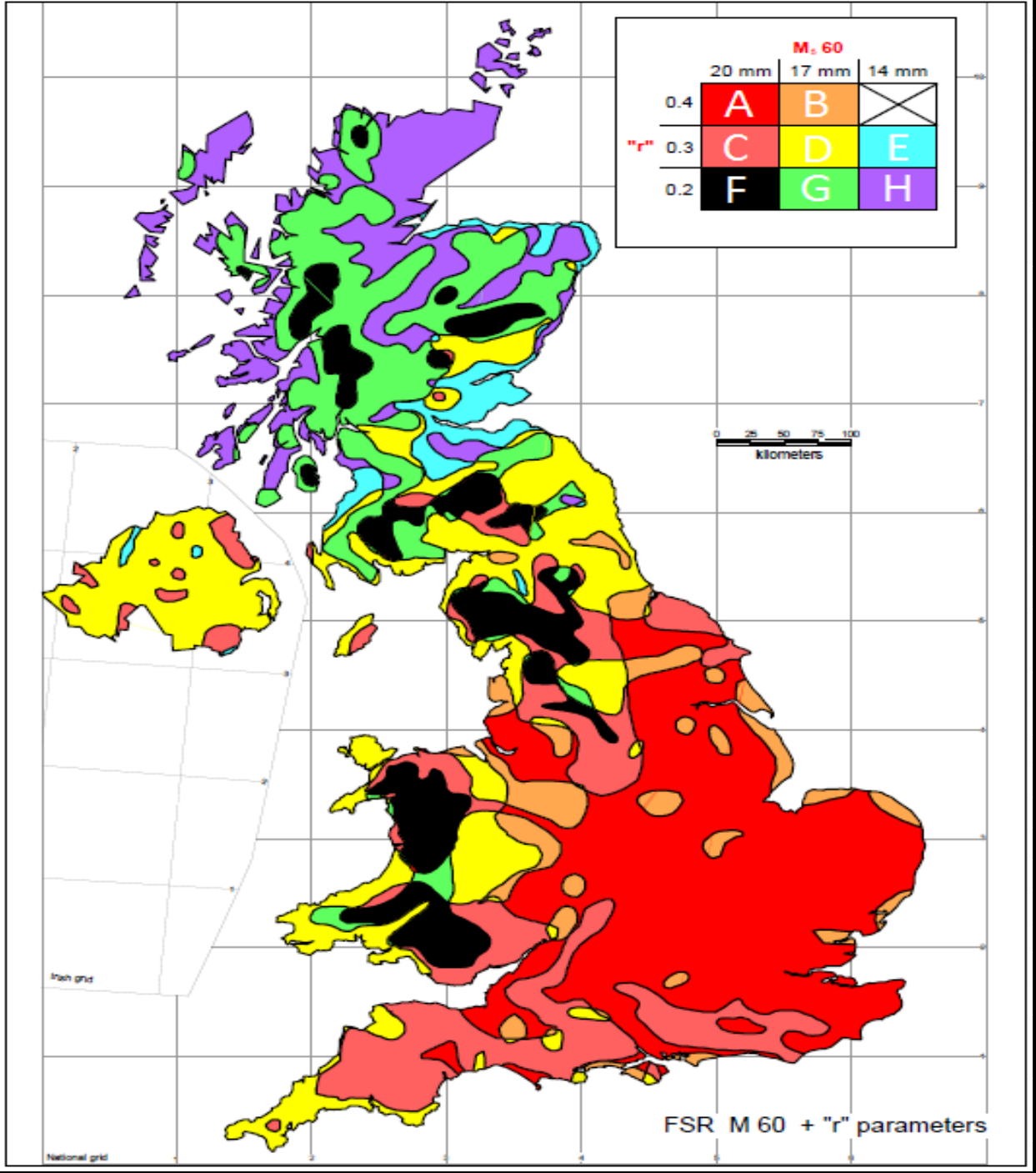


	Project:	Residential Development, Baran Road, Rhydafro	By: DH
	Calculation:	Trench 5 Design	
			Approved:
	Sheet Number:	1	Date: 26/10/19

Catchment Details		
Catchment Area	70	m²
Runoff Coefficient	1	
Location Code	F	
Return Period	100	years
Climate Change Factor	30	%

UK Rainfall Map



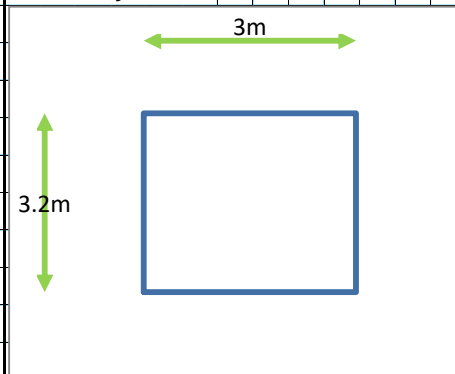
Ground Information

Infiltration Rate	0.0626	m/hr
Factor of Safety	2	

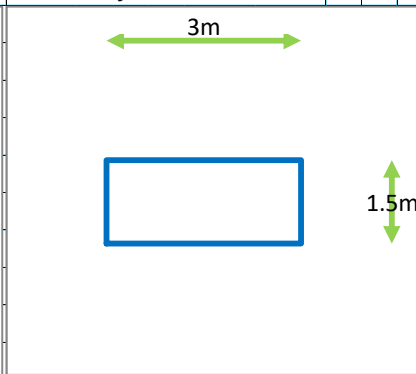
Soakaway Design

Soakaway Shape	Rectangular Trench/Pit	
Number of Soakaways	1	
Length	3.2	m
Width	3	m
Effective Depth	1.5	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	845	49	0.80
10	1,359	99	1.26
15	1,761	148	1.61
30	2,603	296	2.31
45	3,208	444	2.76
60	3,686	592	3.09
120	4,969	1,183	3.79
240	6,406	2,367	4.04
480	8,008	4,734	3.27
600	8,736	5,917	2.82
1440	11,357	14,201	0.00

Acceptable

Storage Area Required 4.04 m³

Storage Area Provided 4.32 m³

Acceptable

Time for Emptying 50% 3.4 hours

Acceptable