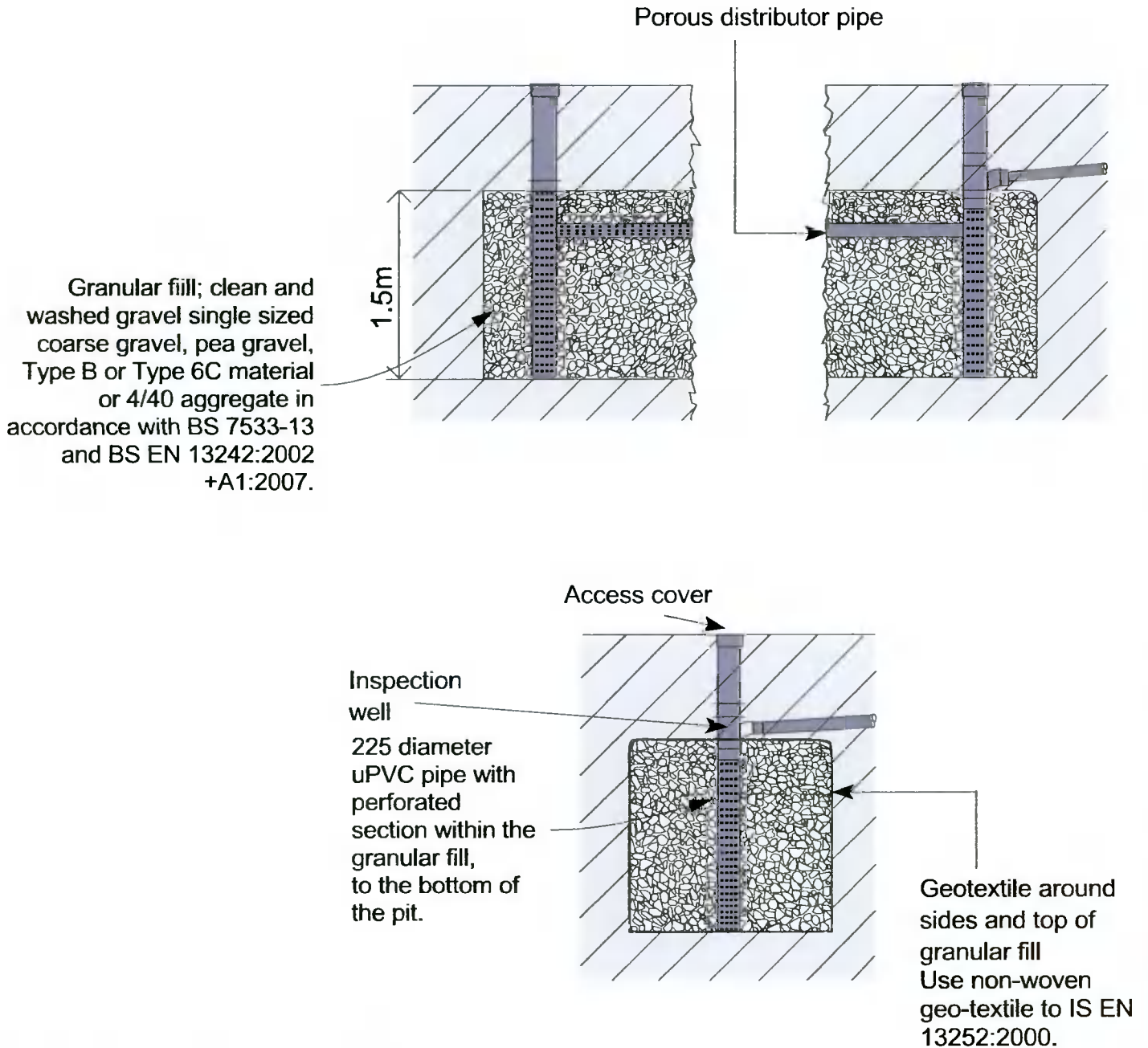


PLANNING DRAWING
THIS DRAWING IS NOT FOR CONSTRUCTION PURPOSES.



SECTIONS THROUGH PROPOSED SOAKAWAY
 (Not to scale)

Size of proposed soakaway pit shall be 2.5m x 2.5m x 1.5 effective depth, and located as per architects drawing number 250-P-01-A
 Geotextile material lapped by 300mm.



Rear Extension to
2 Owendore Avenue
Surface water drainage
 Date 8/3/22
 Scale: Not to scale.

FURTHER INFORMATION
Drawing No.: 250-P-03

Raeside Architects 1 Glenburgh Tce., Lower Dargle Road, Bray, Co. Wicklow	Project: 2 Owendore Avenue, Rathfarnham	By:
	Calculation: Soakaway Design BRE 365 Method	Approved:
	Sheet Number: 1 Date: 8 th March 2022	

Catchment Details			
Catchment Area	53	m ²	
Location	Scotland & Ireland		
City/Town	Other		
M5-60	- Override-	20	
r Ratio	- Override-	0.4	
Runoff Coefficient		100	%

Design Storm Details		
Return Period	10	years
Climate Change Allowance	1.4	

Ground Information	
Infiltration Rate	0.02066 m/hr

5.74E-06 m/s

Soakaway Design		
Length	2.50	m
Width	2.50	m
Effective Depth	1.50	m
Backfill Porosity	30	%

Results

Storm Duration	Z1	Z2	Rainfall	Inflow	Outflow	Storage Required	%
5	0.37	1.18	12.39	0.66	0.01	0.64	22.9
10	0.52	1.19	17.44	0.92	0.03	0.90	31.9
15	0.63	1.19	21.10	1.12	0.04	1.08	38.4
30	0.80	1.19	26.82	1.42	0.08	1.34	47.8
60	1.00	1.20	33.60	1.78	0.15	1.63	57.8
120	1.21	1.19	40.26	2.13	0.31	1.82	64.9
240	1.45	1.18	47.88	2.54	0.62	1.92	68.2
360	1.60	1.18	52.97	2.81	0.93	1.88	66.8
600	1.79	1.18	59.25	3.14	1.55	1.59	56.6
1440	2.24	1.18	74.01	3.92	3.72	0.20	7.2

Maximum Storage Volume Required: **1.92** m³ (240 min Storm)
 Storage Volume Provided: **2.81** m³
 Time of Emptying: **9.07** Hours

Acceptable

Acceptable

Recommend; Construct granular-fill soakaway min 2.5 x 2.5m x 1.5m effective depth. to further detail.