

[illegible]

Unit	No	DU	ΣDu	$v\Sigma Du$
WC (6 litre cistern)	54	1.8	97.2	9.9
Bath	18	0.6	10.8	3.3
Wash basin	54	0.3	16.2	4.0
Kitchen	18	0.6	10.8	3.3
Washing Machine (upto 12kg)	1	1.2	1.2	1.1
Dishwater	18	0.6	10.8	3.3
Shower (No Plug)	36	0.4	14.4	3.8
	Total, ΣDU		161.4	28.6
	$v\Sigma DU$		12.7	

Drainage discharge rates	
K=Frequency factor	0.5
ΣDu=sum of discharge units	161.4
Q_{ww} (Flowrate) =	6.35

Peak Flow (l/s)	Pipe Size	Min Gradient	Notes
<1	75	1:40	
	100	1:40	
>1	75 (2.8 max)	1:80	
	100 (6.3 l max)	1:80	* Min 1 WC
	cp	1:150	*Min 5WCs

$$Q_{ww} = \boxed{6.4} \text{ l/s}$$

Foul drain pipe sizes	
No. of dwellings	Pipe dia
<10	100
>10	150

D246 Terence St_Foul Calculation 19-08-24