DRAINAGE MOUND DESIGN

PROJECT **LYNDIR LANE ROSSETT WREXHAM**

REFERENCE **1018-25**

Treatment Plant System for 1 and 2 bedroom houses or flats

	Caravan	Day Room		TOTAL
NUMBER OF PROPERTIES =	1	1		2
NUMBER OF BEDROOMS PER PROPERTY =	2	2		4
				TOTAL (P)
NUMBER OF PERSONS PER PROPERTY =	4	4		8

For the calculations assume the Day Room has 2 bedrooms

8

8 **TOTAL P FOR 2 & 3 BEDROOMS**

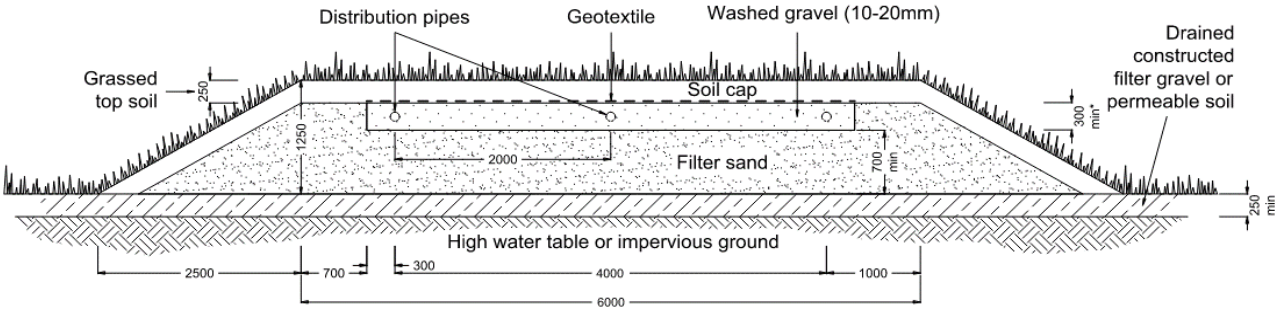
8 **REDUCED TOTAL FOR 2 & 3 BEDROOMS**

ASSUMED AVERAGE Vp FOR THE TOPSOIL = 66

FLOOR AREA OF MOUND BASE = Number of Persons x Vp x 0.25

8	66	0.25

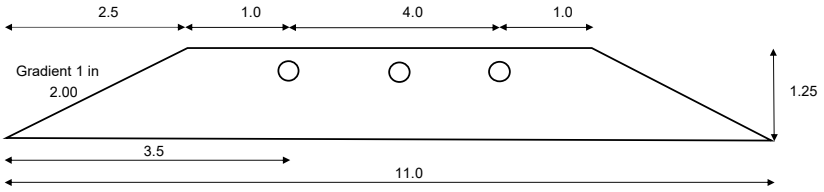
FLOOR AREA OF MOUND BASE = **132.00** m²



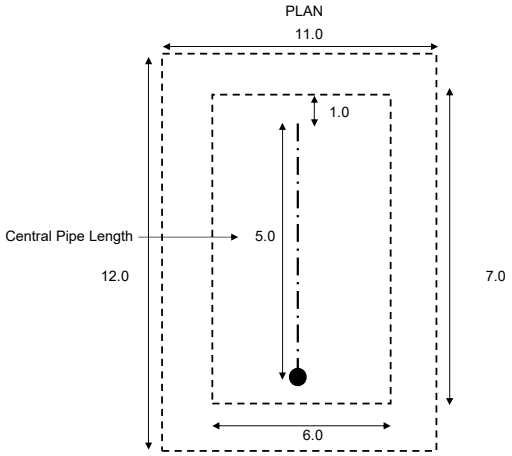
DRAINAGE MOUND DESIGN

DIMENSIONS		
Distance between each pipe =	2.0	m
Number of pipes =	3.0	
Distance between outer pipes =	4.0	m
Distance from outer pipe to top of slope =	1.0	m
Length of slope =	2.5	m
Distance from outer pipe to bottom of slope =	3.5	m
Depth of grassed top soil over mound =	0.25	m
Depth of washed gravel =	0.3	m (min)
Depth of filter sand =	0.7	m (min)
Heignt of mound =	1.25	m (min)
Gradient of slope = 1 in	2.00	50.00%
Pipe size =	0.1	m
Depth of washed gravel below pipe =	0.1	m (min)
Filter width top of mound =	6.0	m
Filter width bottom of mound =	11.0	m
Sub-Surface Area =	132.0	m²
Length of bottom of filter sand =	12.0	m
Length of central pipe =	5.0	m

SECTION



PLAN



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