Drainage outfall calculations for 20 Woodford Park

Description	No.Units	l/D/ Unit	l/d	l/s
4 No dwellings with 4 persons per dwelling	16	225.00	3,600.00	0.04
Dry weather flow (DWF)= Design Flow (6x DWF)			3,600.00 21,600	0.04 0.25
APPLY COLEBROOK- WHITE FORMULA				
(from above) Q = Assumed self cleansing velocity k_s (pipe) = Kinematic Viscosity @ 15 deg C Gravitational acceleration g=	0.25 0.75 0.6 0.00000141 9.81	l/s m/s mm m^2/s m^2/s		
Selected pipe diameter	150	Mm	0.15	m
Selected gradient (1 in)	150	Ratio	0.0666	Gradient
Pipe area =	17,672	mm^2	0.0177	M^2
Z=(2gDS)greater then (0.5)			0.1401	m/s
Q= V=	14.373	l/s	0.014 0.813	m^3/s m/s

Use a 150mm Diameter UPVC pipe