

Minimum and Maximum Slopes for Storm Sewers

(Manning's "n" = 0.013)

Pipe Size	Minimum % of Grade (V = 2.5 ft/sec)	Maximum % of Grade (V = 10 ft/sec)
12"	0.32	4.88
15"	0.24	3.62
18"	0.20	2.84
21"	0.16	2.30
24"	0.14	1.94
27"	0.12	1.66
30"	0.10	1.44
36"	0.08	1.12
42"	0.06	0.92
48"	0.06	0.76
54"	0.04	0.60
60"	0.04	0.54
66"	0.04	0.48