

Pipe Size mm	Full Pipe m <sup>3</sup> /s	Slope *
300	0.060	0.0030
375	0.089	0.0022
450	0.127	0.0017
525	0.174	0.0014
600	0.230	0.0012
675	0.288	0.0010
750	0.356	0.00087
825	0.428	0.00076
900	0.511	0.00068
1050	0.693	0.00055
1200	0.905	0.00046
1350	1.141	0.00039
1500	1.412	0.00034
1650	1.710	0.00030
1800	2.046	0.00027

\*  $n = 0.012$  (Coefficient of roughness of pipe assumed for storm drains by INDOT).

**MINIMUM SLOPES NECESSARY TO ENSURE 0.8 m/s  
IN STORM DRAINS FLOWING FULL**

**(Minimum Slopes m/m)**

**Figure 36-12E**