



**COMPUTATIONS FOR SANITARY
SEWER DESIGN**

ENGINEER _____

Project Name _____

Sheet ___ of _____

Computed By _____

Project No. _____

Checked By _____

Date _____

Location		Average Daily Flow	Peak Factor	Total Sewage Flow (Peak Flow)		Design Flow "Q" (Peak Flow)	Length	Slope	Size	"Q" Full	"V" Full	Design "Q" / "Q" Full	Design Flow Depth Ratio	Design "V" / "V" Full	Design "V"	Drop	Invert Elevation of Sewer		Remarks		
Drain. Area Designation	Sewer Line Designation			From	To												GPD	MGD		c.f.s	LF
		Sta.	Sta.	GPD		MGD	c.f.s	LF	ft/ft	in.	c.f.s	f.p.s	Ratio	d/D	Ratio	f.p.s					

- Col. 1 Drainage Area Designation
- Col. 2 Sewer Line Designation
- Col. 3 Manhole Designation by Station
- Col. 4 Average Daily Flow (Gallons per day)
- Col. 5 Peak Factor
- Col. 6 Total Sewage Flow in gallons per day (Col. 4 x Col. 5)
- Col. 7 Total Sewage Flow in Million gallons per day (Col. 6 divided by 1,000,000)
- Col. 8 Design Flow (Col. 7 x 1.5472 cfs/MGD)
- Col. 9 Length of Pipe measured from centerline of Manhole to centerline of Manhole
- Col. 10 Design Slope
- Col. 11 Pipe Size
- Col. 12 "Q" Full
- Col. 13 "V" Full
- Col. 14 Design "Q" to "Q" Full ratio (Col. 8 divided by Col. 12)
- Col. 15 Ratio of pipe diameter (D) to Design Flow Depth (d) in feet (Exhibit 12-4)
- Col. 16 Design "V" Full to "V" Full Ratio (Exhibit 12-4)
- Col. 17 Design Velocity (Col. 13 x Col. 16)
- Col. 18 Difference in Invert Elevations