



**COMPUTATIONS FOR SANITARY
SEWER DESIGN**

Project Name _____ Sheet _____ of _____
 _____ Completed By: _____
 _____ Checked By: _____

ENGINEER _____

Record No. _____ Date: _____

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	Invert Elevation of Sewer		Remarks	
Location			Increment Total Equiv. Pop.	Accumulated Total Equiv. Pop.	Avg. Daily Flow	Peak Factor	Total Sewage Flow	Drainage Flow "Q"	Length	Slope	Size	"Q" Full	"V" Full	Design "Q" "Q" Full	Design Flow Ratio	Depth	Design "V" "V" Full	Design "V"	Drop	Upper End		Lower End
Drain Area Designation	Sewer Line Designation	Manhole Designation																				
		From																		To		
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. 11 | Design slope |
| Col. 2 | Sewer Line Designation | Col. 12 | Pipe size |
| Col. 3 | Manhole Designation by Station | Col. 13 | "A" full |
| Col. 4 | Total Equivalent Population obtained from each individual drainage area analysis | Col. 14 | "V" full |
| Col. 5 | Total equivalent population accumulated to this point (Col. 4 + previous Col. 5) | Col. 15 | Design "Q" to "Q" full ratio (Col. 9 divided by Col. 13) |
| Col. 6 | Average daily Flow (Col. 5 + 100 gallons per person, per day) | Col. 16 | Ratio of pipe diameter (D) to design, flow depth (d) in feet (Exhibit B-6) |
| Col. 7 | Peak factor from Exhibit B-4 | Col. 17 | Design "V" full to "V" full ratio (Exhibit B-6) |
| Col. 8 | Total sewage flow (Col. 6 + Col. 7 divided by 1,000,000) | Col. 18 | Design velocity (Col. 14 x Col. 17) |
| Col. 9 | Design flow (Col. 8 x 1.5472 cfs/MGD) | Col. 19 | Difference in invert elevations |
| Col. 10 | Length of pipe measured from centerline of manhole to centerline of manhole | | |