# Sanitary sewer design sheet

**Appendix C**

q = average daily per capita flow (L/cap∙d)

I = unit of peak extraneous flow (L/ha∙s)

M = peaking factor

Q(p) = peak population flow (L/s)

Q(i) = peak extraneous flow (L/s)

Q(d) = peak design flow (L/s)

$M=1+\frac{14}{4+ \sqrt{P}}$ , where P is population in 1000’s

$Q\left(p\right)=\frac{PqM}{86.4}$ , (L/s)

$Q\left(i\right)=IA$ , (L/s) where A = Area in hectares

$Q\left(d\right)=Q\left(p\right)+Q(i)$ , (L/s)

| Location Street | Location From | Location To | Individual Pop. | Individual Area A (hectares) | Cumulative Pop. | Cumulative Area A (hectares) | Peaking Factor (M) | Pop. FlowQ(p) L/s | Peak extraneous flow Q(i) L/s | Peak design flow Q(d) | Proposed Sewer Length(m) | Proposed Sewer PipeSize (mm) | Proposed Sewer Type of pipe | Proposed Sewer Grade % | Proposed Sewer Capacity (L/s) n = | Proposed Sewer Full flow velocity (m/s) | Proposed Sewer Actual velocity at Q(d) |
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Design:

Checked:

Date:

Project: