| Name of Zone | Area (ha) | | | Population Density | Population | Unit Flow | | |
|---|---|---|---|---|---|---|---|---|
| | Residential | Commercial | Total | | | Per Capita | Commercial | Infiltration |
| ZONE 2 | 2,030 | 1,570 | 3,600 | 229 persons/ha | 823,800 persons | 201 l/c/d | 116 $m^3$/ha/d | 7.6 $m^3$/ha/d |

| No. of Sewers | Area by Land Use | | | | Area | | Total Population | Domestic Wastewater Flow | | | | | Other Flow | | Total Design Flow | Designed Sewer | | | | | | | Remarks |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Residential Area | | Commercial Area | | | | | Residential (Ave.) | Commercial (Ave.) | Total | Peaking Factor | Peak Flow | Industrial | Infiltration | | Diameter | Length | Slope | Velocity (Full) | Capacity (Full) | Ground Surface Elevation | Sewer Invert Elevation | |
| | Increment | Total | Increment | Total | Increment | Total | | | | | | | | | | | | | | | | | |
| | ha | ha | ha | ha | ha | ha | persons | $m^3$/s | $m^3$/s | $m^3$/s | | $m^3$/s | $m^3$/s | $m^3$/s | $m^3$/s | mm | m | ‰ | m/s | $m^3$/s | m | m | |
| (149) | 13.71 | 190.42 | | 15.95 | 13.71 | 206.37 | 47,260 | 0.110 | 0.021 | 0.131 | 2.9 | 0.380 | | 0.021 | 0.401 | ⊙ 900 | 420.00 | 0.8 | 0.70 | 0.444 | | 32.10 | |
| | | | | | | | | | | | | | | | | | | | | | | 31.76 | |
| (150) | 8.93 | 383.42 | | 1262.87 | 8.93 | 1646.29 | 377,000 | 0.877 | 1.696 | 2.573 | 1.8 | 4.631 | | 0.145 | 4.776 | ⊙ 2600 | 470.00 | 0.4 | 1.00 | 5.312 | | 29.33 | |
| | | | | | | | | | | | | | | | | | | | | | | 29.14 | |
| (151) | 34.49 | 417.91 | | 1262.87 | 34.49 | 1680.78 | 384,900 | 0.895 | 1.696 | 2.591 | 1.8 | 4.664 | | 0.148 | 4.812 | ⊙ 2600 | 480.00 | 0.4 | 1.00 | 5.312 | | 29.14 | |
| | | | | | | | | | | | | | | | | | | | | | | 28.95 | |
| (152) | 31.02 | 448.93 | | 1262.87 | 31.02 | 1711.80 | 392,000 | 0.912 | 1.696 | 2.608 | 1.8 | 4.694 | | 0.151 | 4.845 | ⊙ 2600 | 40.00 | 0.4 | 1.00 | 5.312 | | 28.95 | |
| | | | | | | | | | | | | | | | | | | | | | | 28.93 | |
| (153) | 6.46 | 455.39 | | 1262.87 | 6.46 | 1718.26 | 393,480 | 0.915 | 1.696 | 2.611 | 1.8 | 4.700 | | 0.151 | 4.851 | ⊙ 2600 | 525.00 | 0.4 | 1.00 | 5.312 | | 28.93 | |
| | | | | | | | | | | | | | | | | | | | | | | 28.72 | |
| | to | (161) | | | | | | | | | | | | | | | | | | | | | |
| (154) | 5.72 | | | | 5.72 | | 1,310 | 0.003 | | 0.003 | 4.8 | 0.014 | | 0.001 | 0.015 | ⊙ 200 | 395.00 | 4.5 | 0.61 | 0.019 | | 34.80 | |
| | | | | | | | | | | | | | | | | | | | | | | 33.02 | |
| (155) | 5.18 | 10.90 | | | 5.18 | 10.90 | 2,500 | 0.006 | | 0.006 | 4.8 | 0.029 | | 0.001 | 0.030 | ⊙ 250 | 970.00 | 3.5 | 0.62 | 0.031 | | 32.97 | |
| | | | | | | | | | | | | | | | | | | | | | | 29.58 | |
| (P 2-5) | | | | | | | | | | | | | | | | | | | | | | | Pumping Station |
| (156) | 11.66 | 22.56 | | | 11.66 | 22.56 | 5,170 | 0.012 | | 0.012 | 4.7 | 0.056 | | 0.002 | 0.058 | ⊙ 350 | 565.00 | 2.2 | 0.62 | 0.059 | | 34.65 | |
| | | | | | | | | | | | | | | | | | | | | | | 33.41 | |
| (157) | 11.34 | 33.90 | | | 11.34 | 33.90 | 7,760 | 0.018 | | 0.018 | 4.3 | 0.077 | | 0.003 | 0.080 | ⊙ 450 | 290.00 | 1.6 | 0.62 | 0.099 | | 33.31 | |
| | | | | | | | | | | | | | | | | | | | | | | 32.85 | |
| (158) | 28.39 | 62.29 | | | 28.39 | 62.29 | 14,260 | 0.033 | | 0.033 | 3.8 | 0.125 | | 0.005 | 0.130 | ⊙ 600 | 370.00 | 1.2 | 0.65 | 0.184 | | 32.70 | |
| | | | | | | | | | | | | | | | | | | | | | | 32.26 | |
| (159) | 20.12 | 82.41 | | | 20.12 | 82.41 | 18,870 | 0.044 | | 0.044 | 3.6 | 0.158 | | 0.007 | 0.165 | ⊙ 600 | 470.00 | 1.2 | 0.65 | 0.184 | | 32.26 | |
| | | | | | | | | | | | | | | | | | | | | | | 31.70 | |
| (160) | 31.05 | 113.46 | | | 31.05 | 113.46 | 25,980 | 0.060 | | 0.060 | 3.4 | 0.204 | | 0.010 | 0.214 | ⊙ 700 | 570.00 | 1.0 | 0.66 | 0.254 | | 31.60 | |
| | | | | | | | | | | | | | | | | | | | | | | 31.23 | |
| (161) | 29.34 | 598.19 | | 1262.87 | 29.34 | 1861.06 | 426,180 | 0.991 | 1.696 | 2.687 | 1.8 | 4.837 | | 0.164 | 5.001 | ⊙ 2600 | 490.00 | 0.4 | 1.00 | 5.317 | | 28.72 | |
| | | | | | | | | | | | | | | | | | | | | | | 28.52 | |
| (162) | 26.16 | 2 030.00 | | 1570.00 | 26.16 | 3 600.00 | 824,400 | 1.918 | 2.108 | 4.026 | 1.7 | 6.844 | | 0.317 | 7.161 | ⊙ 3000 | 20.00 | 0.4 | 1.10 | 7.780 | | 28.12 | |
| | | | | | | | | | | | | | | | | | | | | | | 28.11 | |
| | to | Treatment | Facilities | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | |
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| | | | | | | | | | | | | | | | | | | | | | | | |

37.00

| Name of Zone | Area (ha) | | | Population Density | Population | Unit Flow | | |
|---|---|---|---|---|---|---|---|---|
| | Residential | Commercial | Total | | | Per Capita | Commercial | Infiltration |
| ZONE 3 | 2,500 | — | 2,500 | 200 persons/ha | 499,600 persons | 201 l/c/d | 116 $m^3$/ha/d | 7.6 $m^3$/ha/d |

| No. of Sewers | Area by Land Use | | | | Area | | Total Population | Domestic Wastewater Flow | | | | | Other Flow | | Total Design Flow | Designed Sewer | | | | | | | Remarks |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Residential Area | | Commercial Area | | | | | Residential (Ave.) | Commercial (Ave.) | Total | Peaking Factor | Peak Flow | Industrial | Infiltration | | Diameter | Length | Slope | Velocity (Full) | Capacity (Full) | Ground Surface Elevation | Sewer Invert Elevation | |
| | Increment | Total | Increment | Total | Increment | Total | | | | | | | | | | | | | | | | | |
| | ha | ha | ha | ha | ha | ha | persons | $m^3$/s | $m^3$/s | $m^3$/s | | $m^3$/s | $m^3$/s | $m^3$/s | $m^3$/s | mm | m | ‰ | m/s | $m^3$/s | m | m | |
| ① | 2.94 | | | | 2.94 | | 590 | 0.001 | | 0.001 | 4.8 | 0.005 | | 0.001 | 0.006 | ⊙ 200 | 200.00 | 4.5 | 0.61 | 0.019 | | 34.80 | |
| | | | | | | | | | | | | | | | | | | | | | | 33.90 | |
| ② | 8.49 | 11.43 | | | 8.49 | 11.43 | 2,290 | 0.005 | | 0.005 | 4.8 | 0.024 | | 0.001 | 0.025 | ⊙ 250 | 165.00 | 3.5 | 0.62 | 0.031 | | 33.85 | |
| | | | | | | | | | | | | | | | | | | | | | | 33.27 | |
| ③ | 5.88 | 17.31 | | | 5.88 | 17.31 | 3,460 | 0.008 | | 0.008 | 4.8 | 0.038 | | 0.002 | 0.040 | ⊙ 300 | 280.00 | 2.8 | 0.63 | 0.044 | | 33.22 | |
| | | | | | | | | | | | | | | | | | | | | | | 32.44 | |
| ④ | 4.30 | 21.61 | | | 4.30 | 21.61 | 4,320 | 0.010 | | 0.010 | 4.8 | 0.048 | | 0.002 | 0.050 | ⊙ 350 | 280.00 | 2.2 | 0.62 | 0.059 | | 32.39 | |
| | | | | | | | | | | | | | | | | | | | | | | 31.77 | |
| ⑤ | 11.14 | 32.75 | | | 11.14 | 32.75 | 6,550 | 0.015 | | 0.015 | 4.5 | 0.068 | | 0.003 | 0.071 | ⊙ 400 | 380.00 | 1.9 | 0.63 | 0.079 | | 31.72 | |
| | | | | | | | | | | | | | | | | | | | | | | 31.00 | |
| ⑥ | 14.70 | 47.45 | | | 14.70 | 47.45 | 9,490 | 0.022 | | 0.022 | 4.2 | 0.092 | | 0.004 | 0.096 | ⊙ 450 | 380.00 | 1.6 | 0.62 | 0.099 | | 30.95 | |
| | | | | | | | | | | | | | | | | | | | | | | 30.90 | |
| ⑦ | 8.79 | 56.24 | | | 8.79 | 56.24 | 11,250 | 0.026 | | 0.026 | 4.0 | 0.104 | | 0.005 | 0.109 | ⊙ 500 | 300.00 | 1.4 | 0.62 | 0.122 | | 30.85 | |
| | | | | | | | | | | | | | | | | | | | | | | 30.43 | |
| (P 3-1) | | | | | | | | | | | | | | | | | | | | | | | Pumping Station |
| ⑧ | 46.92 | 103.16 | | | 46.92 | 103.16 | 20,630 | 0.048 | | 0.048 | 3.6 | 0.173 | | 0.009 | 0.182 | ⊙ 600 | 350.00 | 1.2 | 0.65 | 0.184 | 37.00 | 34.40 | |
| | | | | | | | | | | | | | | | | | | | | | | 33.98 | |
| ⑨ | 61.18 | 164.34 | | | 61.18 | 164.34 | 32,870 | 0.076 | | 0.076 | 3.3 | 0.251 | | 0.014 | 0.265 | ⊙ 800 | 55.00 | 0.8 | 0.65 | 0.324 | | 33.78 | |
| | | | | | | | | | | | | | | | | | | | | | | 33.73 | |
| ⑩ | 8.17 | 172.51 | | | 8.17 | 172.51 | 34,500 | 0.080 | | 0.080 | 3.3 | 0.264 | | 0.015 | 0.279 | ⊙ 800 | 175.00 | 0.8 | 0.65 | 0.324 | | 33.73 | |
| | | | | | | | | | | | | | | | | | | | | | | 33.59 | |
| ⑪ | 5.51 | 178.02 | | | 5.51 | 178.02 | 35,600 | 0.083 | | 0.083 | 3.2 | 0.266 | | 0.016 | 0.282 | ⊙ 800 | 90.00 | 0.8 | 0.65 | 0.324 | | 33.59 | |
| | | | | | | | | | | | | | | | | | | | | | | 33.52 | |
| ⑫ | 14.42 | 192.44 | | | 14.42 | 192.44 | 38,490 | 0.090 | | 0.090 | 3.2 | 0.288 | | 0.017 | 0.305 | ⊙ 800 | 275.00 | 0.8 | 0.65 | 0.324 | | 33.52 | |
| | | | | | | | | | | | | | | | | | | | | | | 33.30 | |
| ⑬ | 5.22 | 197.66 | | | 5.22 | 197.66 | 39,530 | 0.092 | | 0.092 | 3.2 | 0.294 | | 0.017 | 0.311 | ⊙ 800 | 40.00 | 0.8 | 0.65 | 0.324 | | 33.30 | |
| | | | | | | | | | | | | | | | | | | | | | | 33.27 | |
| ⑭ | 4.39 | 202.05 | | | 4.39 | 202.05 | 40,410 | 0.094 | | 0.094 | 3.2 | 0.301 | | 0.018 | 0.319 | ⊙ 800 | 50.00 | 0.8 | 0.65 | 0.324 | | 33.27 | |
| | | | | | | | | | | | | | | | | | | | | | | 33.23 | |
| ⑮ | 10.93 | 212.98 | | | 10.93 | 212.98 | 42,600 | 0.099 | | 0.099 | 3.1 | 0.307 | | 0.019 | 0.326 | ⊙ 900 | 80.00 | 0.8 | 0.70 | 0.444 | | 33.13 | |
| | | | | | | | | | | | | | | | | | | | | | | 33.07 | |
| ⑯ | 5.63 | 218.61 | | | 5.63 | 218.61 | 43,720 | 0.102 | | 0.102 | 3.1 | 0.316 | | 0.020 | 0.336 | ⊙ 900 | 160.00 | 0.8 | 0.70 | 0.444 | | 33.07 | |
| | | | | | | | | | | | | | | | | | | | | | | 32.94 | |
| ⑰ | 5.44 | 224.05 | | | 5.44 | 224.05 | 44,810 | 0.104 | | 0.104 | 3.1 | 0.322 | | 0.020 | 0.342 | ⊙ 900 | 120.00 | 0.8 | 0.70 | 0.444 | | 32.94 | |
| | | | | | | | | | | | | | | | | | | | | | | 32.84 | |
| ⑱ | 26.24 | 250.29 | | | 26.24 | 250.29 | 50,060 | 0.116 | | 0.116 | 3.1 | 0.360 | | 0.022 | 0.382 | ⊙ 900 | 200.00 | 0.8 | 0.70 | 0.444 | | 32.84 | |
| | | | | | | | | | | | | | | | | | | | | | | 32.68 | |
| ⑲ | 210.09 | 460.38 | | | 210.09 | 460.38 | 92,080 | 0.216 | | 0.216 | 2.7 | 0.583 | | 0.040 | 0.583 | ⊙1100 | 355.00 | 0.6 | 0.73 | 0.828 | | 32.48 | |
| | | | | | | | | | | | | | | | | | | | | | | 32.27 | |

| Name of Zone | Area (ha) | | | Population Density | Population | Unit Flow | | |
|---|---|---|---|---|---|---|---|---|
| | Residential | Commercial | Total | | | Per Capita | Commercial | Infiltration |
| ZONE 3 | 2,500 | —— | 2,500 | 200 persons/ha | 499,600 persons | 201 l/c/d | 116 $m^3$/ha/d | 7.6 $m^3$/ha/d |

| No. of Sewers | Area by Land Use | | | | Area | | Total Population | Domestic Wastewater Flow | | | | | Other Flow | | Total Design Flow | Designed Sewer | | | | | | | Remarks |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Residential Area | | Commercial Area | | | | | Residential (Ave.) | Commercial (Ave.) | Total | Peaking Factor | Peak Flow | Industrial | Infiltration | | Diameter | Length | Slope | Velocity (Full) | Capacity (Full) | Ground Surface Elevation | Sewer Invert Elevation | |
| | Increment | Total | Increment | Total | Increment | Total | | | | | | | | | | | | | | | | | |
| | ha | ha | ha | ha | ha | ha | persons | $m^3$/s | $m^3$/s | $m^3$/s | | $m^3$/s | $m^3$/s | $m^3$/s | $m^3$/s | mm | m | ‰ | m/s | $m^3$/s | m | | |
| (20) | 36.85 | 497.23 | | | 36.85 | 497.23 | 99,450 | 0.231 | | 0.231 | 2.7 | 0.624 | | 0.044 | 0.624 | ⊙ 1100 | 370.00 | 0.6 | 0.73 | 0.828 | | 32.27 | |
| | | | | | | | | | | | | | | | | | | | | | | 32.05 | |
| (21) | 43.40 | 540.63 | | | 43.40 | 540.63 | 108,130 | 0.252 | | 0.252 | 2.7 | 0.680 | | 0.048 | 0.728 | ⊙ 1200 | 280.00 | 0.6 | 0.73 | 0.828 | | 31.95 | |
| | | | | | | | | | | | | | | | | | | | | | | 31.78 | |
| (22) | 71.78 | 612.41 | | | 71.78 | 612.41 | 122,480 | 0.285 | | 0.285 | 2.6 | 0.741 | | 0.054 | 0.795 | ⊙ 1200 | 50.00 | 0.6 | 0.73 | 0.828 | | 31.78 | |
| | | | | | | | | | | | | | | | | | | | | | | 31.75 | |
| (23) | 83.07 | 695.48 | | | 83.07 | 695.48 | 139,100 | 0.324 | | 0.324 | 2.5 | 0.810 | | 0.061 | 0.871 | ⊙ 1350 | 335.00 | 0.5 | 0.72 | 1.034 | | 31.60 | |
| | | | | | | | | | | | | | | | | | | | | | | 31.43 | |
| (24) | 235.90 | 931.38 | | | 235.90 | 931.38 | 186,280 | 0.433 | | 0.433 | 2.4 | 1.039 | | 0.082 | 1.121 | ⊙ 1500 | 440.00 | 0.5 | 0.78 | 1.370 | | 31.28 | |
| | | | | | | | | | | | | | | | | | | | | | | 31.06 | |
| (25) | 23.69 | 955.07 | | | 23.69 | 955.07 | 191,010 | 0.444 | | 0.444 | 2.4 | 1.066 | | 0.084 | 1.150 | ⊙ 1500 | 755.00 | 0.5 | 0.78 | 1.370 | | 31.06 | |
| | | | | | | | | | | | | | | | | | | | | | | 30.68 | |
| (26) | 45.87 | 1000.94 | | | 45.87 | 1000.94 | 200,190 | 0.466 | | 0.466 | 2.3 | 1.072 | | 0.088 | 1.160 | ⊙ 1500 | 515.00 | 0.5 | 0.78 | 1.370 | | 30.68 | |
| | | | | | | | | | | | | | | | | | | | | | | 30.42 | |
| (27) | 119.26 | 1120.20 | | | 119.26 | 1120.20 | 224,040 | 0.521 | | 0.521 | 2.3 | 1.198 | | 0.099 | 1.297 | ⊙ 1500 | 40.00 | 0.5 | 0.78 | 1.370 | | 30.42 | |
| | | | | | | | | | | | | | | | | | | | | | | 30.40 | |
| (28) | 84.71 | 1204.91 | | | 84.71 | 1204.91 | 240,980 | 0.561 | | 0.561 | 2.3 | 1.290 | | 0.106 | 1.396 | ⊙ 1650 | 210.00 | 0.4 | 0.74 | 1.580 | | 30.25 | |
| | | | | | | | | | | | | | | | | | | | | | | 30.17 | |
| (29) | 3.51 | 1208.42 | | | 3.51 | 1208.42 | 241,680 | 0.562 | | 0.562 | 2.3 | 1.293 | | 0.106 | 1.399 | ⊙ 1650 | 55.00 | 0.4 | 0.74 | 1.580 | | 30.17 | |
| | | | | | | | | | | | | | | | | | | | | | | 30.15 | |
| | to (52) | | | | | | | | | | | | | | | | | | | | | | |
| (30) | 11.20 | | | | 11.20 | | 2,240 | 0.005 | | 0.005 | 4.8 | 0.024 | | 0.001 | 0.025 | ⊙ 250 | 450.00 | 3.3 | 0.62 | 0.031 | | 34.75 | |
| | | | | | | | | | | | | | | | | | | | | | | 33.18 | |
| (31) | 9.90 | 21.10 | | | 9.90 | 21.10 | 4,220 | 0.010 | | 0.010 | 4.8 | 0.048 | | 0.002 | 0.050 | ⊙ 350 | 285.00 | 2.2 | 0.62 | 0.059 | | 33.08 | |
| | | | | | | | | | | | | | | | | | | | | | | 32.45 | |
| (32) | 12.73 | 33.83 | | | 12.73 | 33.83 | 6,770 | 0.016 | | 0.016 | 4.4 | 0.070 | | 0.003 | 0.073 | ⊙ 400 | 360.00 | 1.9 | 0.63 | 0.079 | | 32.40 | |
| | | | | | | | | | | | | | | | | | | | | | | 31.71 | |
| (33) | 22.35 | 56.18 | | | 22.35 | 56.18 | 11,240 | 0.026 | | 0.026 | 4.0 | 0.104 | | 0.005 | 0.109 | ⊙ 500 | 290.00 | 1.4 | 0.62 | 0.122 | | 31.61 | |
| | | | | | | | | | | | | | | | | | | | | | | 31.20 | |
| (34) | 5.45 | 61.63 | | | 5.45 | 61.63 | 12,330 | 0.029 | | 0.029 | 3.9 | 0.113 | | 0.005 | 0.118 | ⊙ 500 | 170.00 | 1.4 | 0.62 | 0.122 | | 31.20 | |
| | | | | | | | | | | | | | | | | | | | | | | 30.96 | |
| (35) | 8.97 | 70.60 | | | 8.97 | 70.60 | 14,120 | 0.033 | | 0.033 | 3.8 | 0.125 | | 0.006 | 0.131 | ⊙ 600 | 30.00 | 1.2 | 0.65 | 0.184 | | 30.86 | |
| | | | | | | | | | | | | | | | | | | | | | | 30.82 | |
| (36) | 22.09 | 92.69 | | | 22.09 | 92.69 | 18,540 | 0.043 | | 0.043 | 3.6 | 0.155 | | 0.008 | 0.163 | ⊙ 600 | 440.00 | 1.2 | 0.65 | 0.184 | | 30.82 | |
| | | | | | | | | | | | | | | | | | | | | | | 30.29 | |
| (37) | 28.19 | 120.88 | | | 28.19 | 120.88 | 24,180 | 0.056 | | 0.056 | 3.4 | 0.190 | | 0.011 | 0.201 | ⊙ 700 | 240.00 | 1.0 | 0.66 | 0.254 | | 30.19 | |
| | | | | | | | | | | | | | | | | | | | | | | 29.95 | |
| (P 3-2) | | | | | | | | | | | | | | | | | | | | | | | Pumping Station |

37.00

| Name of Zone | Area (ha) | | | Population Density | Population | Unit Flow | | |
|---|---|---|---|---|---|---|---|---|
| | Residential | Commercial | Total | | | Per Capita | Commercial | Infiltration |
| ZONE 3 | 2,500 | — | 2,500 | 200 persons/ha | 499,600 persons | 201 l/c/d | 116 $m^3$/ha/d | 7.6 $m^3$/ha/d |

| No. of Sewers | Area by Land Use | | | | Area | | Total Population | Domestic Wastewater Flow | | | | | Other Flow | | Total Design Flow | Designed Sewer | | | | | | | Remarks |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Residential Area | | Commercial Area | | | | | Residential (Ave.) | Commercial (Ave.) | Total | Peaking Factor | Peak Flow | Industrial | Infiltration | | Diameter | Length | Slope | Velocity (Full) | Capacity (Full) | Ground Surface Elevation | Sewer Invert Elevation | |
| | Increment | Total | Increment | Total | Increment | Total | | | | | | | | | | | | | | | | | |
| | ha | ha | ha | ha | ha | ha | persons | $m^3$/s | $m^3$/s | $m^3$/s | | $m^3$/s | $m^3$/s | $m^3$/s | $m^3$/s | mm | m | ‰ | m/s | $m^3$/s | m | m | |
| (38) | 27.52 | 148.40 | | | 27.52 | 148.40 | 29,680 | 0.069 | | 0.069 | 3.3 | 0.228 | | 0.031 | 0.241 | ⊙ 700 | 465.00 | 1.0 | 0.66 | 0.254 | | 34.30 | |
| | | | | | | | | | | | | | | | | | | | | | | 33.84 | |
| (39) | 48.99 | 197.39 | | | 48.99 | 197.39 | 39,480 | 0.092 | | 0.092 | 3.2 | 0.294 | | 0.017 | 0.311 | ⊙ 800 | 490.00 | 0.8 | 0.65 | 0.324 | | 33.74 | |
| | | | | | | | | | | | | | | | | | | | | | | 33.34 | |
| (40) | 163.00 | 360.39 | | | 163.00 | 360.39 | 72,080 | 0.168 | | 0.168 | 2.9 | 0.487 | | 0.032 | 0.519 | ⊙1100 | 30.00 | 0.6 | 0.69 | 0.656 | | 33.04 | |
| | | | | | | | | | | | | | | | | | | | | | | 33.02 | |
| (41) | 77.45 | 437.84 | | | 77.45 | 437.84 | 87,570 | 0.204 | | 0.204 | 2.8 | 0.571 | | 0.039 | 0.610 | ⊙1100 | 730.00 | 0.6 | 0.69 | 0.656 | | 33.02 | |
| | | | | | | | | | | | | | | | | | | | | | | 32.58 | |
| (42) | 46.59 | 484.43 | | | 46.59 | 484.43 | 96,890 | 0.225 | | 0.225 | 2.7 | 0.608 | | 0.043 | 0.651 | ⊙1100 | 360.00 | 0.6 | 0.69 | 0.656 | | 32.58 | |
| | | | | | | | | | | | | | | | | | | | | | | 32.36 | |
| (43) | 35.33 | 519.76 | | | 35.33 | 519.76 | 103,950 | 0.242 | | 0.242 | 2.7 | 0.653 | | 0.046 | 0.699 | ⊙1200 | 380.00 | 0.6 | 0.73 | 0.828 | | 32.26 | |
| | | | | | | | | | | | | | | | | | | | | | | 32.03 | |
| (44) | 62.07 | 581.83 | | | 62.07 | 581.83 | 116,370 | 0.271 | | 0.271 | 2.6 | 0.765 | | 0.051 | 0.756 | ⊙1200 | 560.00 | 0.6 | 0.73 | 0.828 | | 32.03 | |
| | | | | | | | | | | | | | | | | | | | | | | 31.69 | |
| (45) | 15.79 | 597.62 | | | 15.79 | 597.62 | 119,520 | 0.278 | | 0.278 | 2.6 | 0.723 | | 0.053 | 0.776 | ⊙1200 | 400.00 | 0.6 | 0.73 | 0.828 | | 31.69 | |
| | | | | | | | | | | | | | | | | | | | | | 37.00 | 31.45 | |
| (46) | 190.80 | 788.42 | | | 190.80 | 788.42 | 157,680 | 0.367 | | 0.367 | 2.4 | 0.881 | | 0.069 | 0.950 | ⊙1350 | 410.00 | 0.5 | 0.72 | 1.034 | | 31.30 | |
| | | | | | | | | | | | | | | | | | | | | | | 31.10 | |
| (47) | 53.26 | 841.68 | | | 53.26 | 841.68 | 168.340 | 0.392 | | 0.392 | 2.4 | 0.941 | | 0.074 | 1.015 | ⊙1350 | 100.00 | 0.5 | 0.72 | 1.034 | | 31.10 | |
| | | | | | | | | | | | | | | | | | | | | | | 31.05 | |
| (48) | 10.80 | 852.48 | | | 10.80 | 852.48 | 170,500 | 0.397 | | 0.397 | 2.4 | 0.953 | | 0.075 | 1.028 | ⊙1350 | 240.00 | 0.5 | 0.72 | 1.034 | | 31.05 | |
| | | | | | | | | | | | | | | | | | | | | | | 30.93 | |
| (49) | 25.38 | 877.86 | | | 25.38 | 877.86 | 175,570 | 0.408 | | 0.408 | 2.4 | 0.979 | | 0.077 | 1.056 | ⊙1500 | 260.00 | 0.5 | 0.78 | 1.370 | | 30.78 | |
| | | | | | | | | | | | | | | | | | | | | | | 30.65 | |
| (50) | 44.32 | 922.18 | | | 44.32 | 922.18 | 184,440 | 0.429 | | 0.429 | 2.4 | 1.030 | | 0.081 | 1.111 | ⊙1500 | 250.00 | 0.5 | 0.78 | 1.370 | | 30.65 | |
| | | | | | | | | | | | | | | | | | | | | | | 30.53 | |
| (51) | 78.55 | 1000.73 | | | 78.55 | 1000.73 | 200,150 | 0.466 | | 0.466 | 2.3 | 1.072 | | 0.088 | 1.166 | ⊙1500 | 450.00 | 0.5 | 0.78 | 1.370 | | 30.53 | |
| | | | | | | | | | | | | | | | | | | | | | | 30.31 | |
| (52) | 290.85 | 2500.00 | | | 290.85 | 2500.00 | 500,000 | 1.163 | | 1.163 | 2.1 | 2.442 | | 0.220 | 2.662 | ⊙2100 | 50.00 | 0.4 | 0.87 | 3.005 | | 29.71 | |
| | | | | | | | | | | | | | | | | | | | | | | 29.69 | |
| | to Treatment Facilites | | | | | | | | | | | | | | | | | | | | | | |

| Name of Zone | Area (ha) | | | Population Density | Population | Unit Flow | | |
|---|---|---|---|---|---|---|---|---|
| | Residential | Commercial | Total | | | Per Capita | Commercial | Infiltration |
| ZONE 5 | 3,100 | — | 3,100 | 148 persons/ha | 457,300 persons | 201 l/c/d | 116 $m^3$/ha/d | 7.6 $m^3$/ha/d |

| No. of Sewers | Area by Land Use | | | | Area | | Total Population | Domestic Wastewater Flow | | | | | Other Flow | | Total Design Flow | Designed Sewer | | | | | | | Remarks |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Residential Area | | Commercial Area | | | | | Residential (Ave.) | Commercial (Ave.) | Total | Peaking Factor | Peak Flow | Industrial | Infiltration | | Diameter | Length | Slope | Velocity (Full) | Capacity (Full) | Ground Surface Elevation | Sewer Invert Elevation | |
| | Increment | Total | Increment | Total | Increment | Total | | | | | | | | | | | | | | | | | |
| | ha | ha | ha | ha | ha | ha | persons | $m^3$/s | $m^3$/s | $m^3$/s | | $m^3$/s | $m^3$/s | $m^3$/s | $m^3$/s | mm | m | ‰ | m/s | $m^3$/s | m | | |
| ① | 20.47 | | | | 20.47 | | 3,030 | 0.007 | | 0.007 | 4.8 | 0.034 | | 0.002 | 0.036 | ⊙ 300 | 310.00 | 2.8 | 0.63 | 0.044 | | 34.70 | |
| | | | | | | | | | | | | | | | | | | | | | | 33.83 | |
| ② | 46.98 | 67.45 | | | 46.98 | 67.45 | 9,980 | 0.023 | | 0.023 | 4.1 | 0.094 | | 0.006 | 0.100 | ⊙ 500 | 750.00 | 1.4 | 0.62 | 0.122 | | 33.63 | |
| | | | | | | | | | | | | | | | | | | | | | | 32.58 | |
| ③ | 63.92 | 131.37 | | | 63.92 | 131.37 | 19,440 | 0.045 | | 0.045 | 3.6 | 0.162 | | 0.012 | 0.174 | ⊙ 600 | 770.00 | 1.2 | 0.65 | 0.184 | | 32.48 | |
| | | | | | | | | | | | | | | | | | | | | | | 31.56 | |
| ④ | 153.48 | 284.85 | | | 153.48 | 284.85 | 42,160 | 0.098 | | 0.098 | 3.1 | 0.304 | | 0.025 | 0.329 | ⊙ 900 | 1060.00 | 0.8 | 0.70 | 0.444 | | 31.26 | |
| | | | | | | | | | | | | | | | | | | | | | | 30.41 | |
| ⑤ | 334.58 | 619.43 | | | 334.58 | 619.43 | 91,680 | 0.213 | | 0.213 | 2.7 | 0.575 | | 0.054 | 0.629 | ⊙ 1100 | 500.00 | 0.6 | 0.69 | 0.656 | | 30.21 | |
| | | | | | | | | | | | | | | | | | | | | | | 29.01 | |
| (P 5-1) | | | | | | | | | | | | | | | | | | | | | | | Pumping Station |
| ⑥ | 59.97 | 679.40 | | | 59.97 | 679.40 | 100,550 | 0.234 | | 0.234 | 2.7 | 0.632 | | 0.072 | 0.704 | ⊙ 1200 | 2830.00 | 0.6 | 0.73 | 0.828 | | 33.80 | |
| | | | | | | | | | | | | | | | | | | | | | | 32.10 | |
| ⑦ | 640.30 | 1319.70 | | | 640.30 | 1319.70 | 195,320 | 0.454 | | 0.454 | 2.3 | 1.044 | | 0.128 | 1.172 | ⊙ 1500 | 670.00 | 0.5 | 0.78 | 1.370 | | 31.80 | |
| | | | | | | | | | | | | | | | | | | | | | | 31.47 | |
| ⑧ | 157.24 | 1476.94 | | | 157.24 | 1476.94 | 218,590 | 0.502 | | 0.502 | 2.3 | 1.155 | | 0.131 | 1.286 | ⊙ 1500 | 820.00 | 0.5 | 0.78 | 1.370 | | 31.47 | |
| | | | | | | | | | | | | | | | | | | | | | 37.00 | 31.06 | |
| ⑨ | 765.18 | 2242.12 | | | 765.18 | 2242.12 | 331,830 | 0.772 | | 0.772 | 2.2 | 1.698 | | 0.187 | 1.885 | ⊙ 1800 | 500.00 | 0.4 | 0.78 | 1.992 | | 30.76 | |
| | | | | | | | | | | | | | | | | | | | | | | 30.56 | |
| | to | ⑭ | | | | | | | | | | | | | | | | | | | | | |
| ⑩ | 38.67 | | | | 38.67 | | 5,720 | 0.013 | | 0.013 | 4.8 | 0.062 | | 0.003 | 0.065 | ⊙ 400 | 670.00 | 1.9 | 0.63 | 0.079 | | 34.60 | |
| | | | | | | | | | | | | | | | | | | | | | | 33.33 | |
| ⑪ | 113.82 | 152.49 | | | 113.82 | 152.49 | 22,570 | 0.053 | | 0.053 | 3.4 | 0.180 | | 0.013 | 0.193 | ⊙ 700 | 1000.00 | 1.0 | 0.66 | 0.254 | | 33.03 | |
| | | | | | | | | | | | | | | | | | | | | | | 32.03 | |
| ⑫ | 149.76 | 302.25 | | | 149.76 | 302.25 | 44,730 | 0.104 | | 0.104 | 3.1 | 0.322 | | 0.037 | 0.359 | ⊙ 900 | 980.00 | 0.8 | 0.70 | 0.444 | | 31.83 | |
| | | | | | | | | | | | | | | | | | | | | | | 31.05 | |
| ⑬ | 100.37 | 402.62 | | | 100.37 | 402.62 | 59,590 | 0.139 | | 0.139 | 3.0 | 0.417 | | 0.046 | 0.463 | ⊙ 1000 | 760.00 | 0.6 | 0.65 | 0.509 | | 30.95 | |
| | | | | | | | | | | | | | | | | | | | | | | 30.49 | |
| ⑭ | 63.93 | 2708.67 | | | 63.93 | 2708.67 | 400,880 | 0.933 | | 0.933 | 2.0 | 1.866 | | 0.238 | 2.104 | ⊙ 1900 | 410.97 | 0.4 | 0.81 | 2.301 | | 29.59 | |
| | | | | | | | | | | | | | | | | | | | | | | 29.43 | |
| ⑮ | 156.90 | 2865.57 | | | 156.90 | 2865.57 | 424,100 | 0.987 | | 0.987 | 2.0 | 1.974 | | 0.252 | 2.226 | ⊙ 1900 | 610.00 | 0.4 | 0.81 | 2.301 | | 29.43 | |
| | | | | | | | | | | | | | | | | | | | | | | 29.19 | |
| ⑯ | 234.43 | 3100.00 | | | 234.43 | 3100.00 | 458,800 | 1.067 | | 1.067 | 2.0 | 2.134 | | 0.273 | 2.407 | ⊙ 2000 | 300.00 | 0.4 | 0.84 | 2.639 | | 29.09 | |
| | | | | | | | | | | | | | | | | | | | | | | 28.97 | |
| | to | Treatment | Facilities | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | |

| Name of Zone | Area (ha) | | | Population Density | Population | Unit Flow | | |
|---|---|---|---|---|---|---|---|---|
| | Residential | Commercial | Total | | | Per Capita | Commercial | Infiltration |
| ZONE 6 | 2,600 | — | 2,600 | 95 persons/ha | 245,600 persons | 201 l/c/d | 116 $m^3$/ha/d | 7.6 $m^3$/ha/d |

| No. of Sewers | Area by Land Use | | | | Area | | Total Population | Domestic Wastewater Flow | | | | | Other Flow | | Total Design Flow | Designed Sewer | | | | | | | Remarks |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Residential Area | | Commercial Area | | | | | Residential (Ave.) | Commercial (Ave.) | Total | Peaking Factor | Peak Flow | Industrial | Infiltration | | Diameter | Length | Slope | Velocity (Full) | Capacity (Full) | Ground Surface Elevation | Sewer Invert Elevation | |
| | Increment | Total | Increment | Total | Increment | Total | | | | | | | | | | | | | | | | | |
| | ha | ha | ha | ha | ha | ha | persons | $m^3$/s | $m^3$/s | $m^3$/s | | $m^3$/s | $m^3$/s | $m^3$/s | $m^3$/s | mm | m | ‰ | m/s | $m^3$/s | m | m | |
| ① | 36.14 | | | | 36.11 | | 3,430 | 0.008 | | 0.008 | 4.8 | 0.038 | | 0.003 | 0.041 | ⊙ 300 | 890.00 | 2.8 | 0.63 | 0.044 | | 34.70<br>32.39 | |
| ② | 48.26 | 84.37 | | | 48.26 | 84.37 | 8,020 | 0.019 | | 0.019 | 4.2 | 0.080 | | 0.007 | 0.087 | ⊙ 450 | 870.00 | 1.6 | 0.62 | 0.099 | | 32.24<br>30.85 | |
| ③ | 46.04 | 130.41 | | | 46.04 | 130.41 | 12,390 | 0.029 | | 0.029 | 3.9 | 0.113 | | 0.011 | 0.124 | ⊙ 600 | 630.00 | 1.2 | 0.65 | 0.184 | | 30.70<br>29.94 | |
| (P 6-1) | | | | | | | | | | | | | | | | | | | | | | | Pumping Station |
| ④ | 44.53 | 174.94 | | | 44.53 | 174.94 | 16,620 | 0.039 | | 0.039 | 3.7 | 0.144 | | 0.015 | 0.159 | ⊙ 600 | 340.00 | 1.2 | 0.65 | 0.184 | | 34.40<br>33.99 | |
| ⑤ | 77.97 | 252.91 | | | 77.97 | 252.91 | 24,030 | 0.056 | | 0.056 | 3.4 | 0.190 | | 0.022 | 0.212 | ⊙ 700 | 390.00 | 1.0 | 0.66 | 0.254 | | 33.89<br>33.50 | |
| ⑥ | 144.50 | 397.41 | | | 144.50 | 397.41 | 37,750 | 0.088 | | 0.088 | 3.2 | 0.282 | | 0.035 | 0.317 | ⊙ 800 | 1280.00 | 0.8 | 0.65 | 0.324 | | 33.40<br>32.38 | |
| ⑦ | 64.19 | 461.60 | | | 64.19 | 461.60 | 43,850 | 0.102 | | 0.102 | 3.1 | 0.316 | | 0.041 | 0.357 | ⊙ 900 | 840.00 | 0.8 | 0.70 | 0.444 | | 32.28<br>31.61 | |
| ⑧ | 140.68 | 602.28 | | | 140.68 | 602.28 | 57,220 | 0.133 | | 0.133 | 2.9 | 0.386 | | 0.053 | 0.439 | ⊙ 900 | 1340.00 | 0.8 | 0.70 | 0.444 | | 31.61<br>30.54 | |
| | to | (27) | | | | | | | | | | | | | | | | | | | 37.00 | | |
| ⑨ | 32.78 | | | | 32.78 | | 3,110 | 0.007 | | 0.007 | 4.8 | 0.034 | | 0.003 | 0.037 | ⊙ 300 | 960.00 | 2.8 | 0.63 | 0.044 | | 34.70<br>32.01 | |
| ⑩ | 57.15 | 89.93 | | | 57.15 | 89.93 | 8,540 | 0.020 | | 0.020 | 4.2 | 0.084 | | 0.008 | 0.092 | ⊙ 450 | 570.00 | 1.6 | 0.62 | 0.099 | | 31.86<br>30.95 | |
| ⑪ | 88.79 | 178.72 | | | 88.79 | 178.72 | 16,980 | 0.040 | | 0.040 | 3.7 | 0.148 | | 0.016 | 0.164 | ⊙ 600 | 640.00 | 1.2 | 0.65 | 0.184 | | 30.80<br>30.03 | |
| (P 6-2) | | | | | | | | | | | | | | | | | | | | | | | Pumping Station |
| ⑫ | 64.00 | 242.72 | | | 64.00 | 242.72 | 23,060 | 0.054 | | 0.054 | 3.4 | 0.184 | | 0.021 | 0.205 | ⊙ 700 | 1700.00 | 1.0 | 0.66 | 0.254 | | 34.30<br>32.60 | |
| | to | (16) | | | | | | | | | | | | | | | | | | | | | |
| ⑬ | 87.49 | | | | 87.49 | | 8,310 | 0.019 | | 0.019 | 4.2 | 0.080 | | 0.008 | 0.088 | ⊙ 450 | 870.00 | 1.6 | 0.62 | 0.099 | | 34.55<br>33.16 | |
| ⑭ | 53.55 | 141.04 | | | 53.55 | 141.04 | 13,400 | 0.031 | | 0.031 | 3.8 | 0.118 | | 0.012 | 0.130 | ⊙ 600 | 280.00 | 1.2 | 0.65 | 0.184 | | 33.01<br>32.67 | |
| ⑮ | 164.09 | 305.13 | | | 164.09 | 250.13 | 23,780 | 0.055 | | 0.055 | 3.4 | 0.187 | | 0.022 | 0.209 | ⊙ 700 | 1560.00 | 1.0 | 0.66 | 0.254 | | 32.57<br>31.01 | |
| ⑯ | 234.45 | 782.30 | | | 234.45 | 782.30 | 74,320 | 0.173 | | 0.173 | 2.8 | 0.484 | | 0.069 | 0.553 | ⊙ 1100 | 730.00 | 0.6 | 0.69 | 0.656 | | 30.61<br>30.17 | |

| Name of Zone | Area (ha) | | | Population Density | Population | Unit Flow | | |
|---|---|---|---|---|---|---|---|---|
| | Residential | Commercial | Total | | | Per Capita | Commercial | Infiltration |
| ZONE 6 | 2,600 | — | 2,600 | 95 persons/ha | 245,600 persons | 201 l/c/d | 116 $m^3$/ha/d | 7.6 $m^3$/ha/d |

| No. of Sewers | Area by Land Use | | | | Area | | Total Population | Domestic Wastewater Flow | | | | | Other Flow | | Total Design Flow | Designed Sewer | | | | | | | Remarks |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Residential Area | | Commercial Area | | | | | Residential (Ave.) | Commercial (Ave.) | Total | Peaking Factor | Peak Flow | Industrial | Infiltration | | Diameter | Length | Slope | Velocity (Full) | Capacity (Full) | Ground Surface Elevation | Sewer Invert Elevation | |
| | Increment | Total | Increment | Total | Increment | Total | | | | | | | | | | | | | | | | | |
| | ha | ha | ha | ha | ha | ha | persons | $m^3$/s | $m^3$/s | $m^3$/s | | $m^3$/s | $m^3$/s | $m^3$/s | $m^3$/s | mm | m | ‰ | m/s | $m^3$/s | m | | |
| (17) | 158.18 | 940.48 | | | 158.18 | 940.48 | 89,350 | 0.208 | | 0.208 | 2.7 | 0.562 | | 0.083 | 0.645 | ⊙1100 | 1750.00 | 0.6 | 0.69 | 0.656 | | 30.17 | |
| | | | | | | | | | | | | | | | | | | | | | | 29.12 | |
| | to | (27) | | | | | | | | | | | | | | | | | | | | | |
| (18) | 34.67 | | | | 34.64 | | 3,290 | 0.008 | | 0.008 | 4.8 | 0.038 | | 0.003 | 0.041 | ⊙ 300 | 840.00 | 2.8 | 0.63 | 0.044 | | 34.70 | |
| | | | | | | | | | | | | | | | | | | | | | | 32.35 | |
| (19) | 172.67 | 207.31 | | | 172.67 | 207.31 | 19,690 | 0.046 | | 0.046 | 3.5 | 0.161 | | 0.018 | 0.179 | ⊙ 600 | 780.00 | 1.2 | 0.65 | 0.184 | | 32.05 | |
| | | | | | | | | | | | | | | | | | | | | | | 31.11 | |
| (20) | 89.17 | 296.48 | | | 89.17 | 296.48 | 28,170 | 0.066 | | 0.066 | 3.3 | 0.218 | | 0.026 | 0.244 | ⊙ 700 | 740.00 | 1.0 | 0.66 | 0.254 | | 31.01 | |
| | | | | | | | | | | | | | | | | | | | | | | 30.27 | |
| (P 6-3) | | | | | | | | | | | | | | | | | | | | | | | Pumping Station |
| (21) | 84.28 | 380.76 | | | 84.28 | 380.76 | 36,170 | 0.084 | | 0.084 | 3.2 | 0.269 | | 0.033 | 0.302 | ⊙ 800 | 710.00 | 0.8 | 0.65 | 0.324 | | 34.20 | |
| | | | | | | | | | | | | | | | | | | | | | | 32.63 | |
| (22) | 115.88 | 496.64 | | | 115.88 | 496.64 | 47,180 | 0.110 | | 0.110 | 3.1 | 0.341 | | 0.044 | 0.385 | ⊙ 900 | 960.00 | 0.8 | 0.70 | 0.444 | | 33.53 | |
| | | | | | | | | | | | | | | | | | | | | | | 32.76 | |
| | to | (26) | | | | | | | | | | | | | | | | | | | | | |
| (23) | 46.49 | | | | 46.49 | | 4,420 | 0.010 | | 0.010 | 4.8 | 0.048 | | 0.004 | 0.052 | ⊙ 350 | 920.00 | 2.2 | 0.62 | 0.059 | | 34.65 | |
| | | | | | | | | | | | | | | | | | | | | | | 32.63 | |
| (24) | 138.75 | 185.24 | | | 138.75 | 185.24 | 17,600 | 0.041 | | 0.041 | 3.6 | 0.148 | | 0.016 | 0.164 | ⊙ 600 | 1350.00 | 1.2 | 0.65 | 0.184 | | 32.38 | |
| | | | | | | | | | | | | | | | | | | | | | | 30.76 | |
| (25) | 98.15 | 283.39 | | | 98.15 | 283.39 | 26,920 | 0.063 | | 0.063 | 3.3 | 0.208 | | 0.025 | 0.233 | ⊙ 700 | 670.00 | 1.0 | 0.66 | 0.254 | | 30.66 | |
| | | | | | | | | | | | | | | | | | | | | | | 29.99 | |
| (26) | 277.21 | 1057.24 | | | 277.21 | 1057.24 | 100,440 | 0.234 | | 0.234 | 2.6 | 0.608 | | 0.093 | 0.701 | ⊙1200 | 1190.00 | 0.6 | 0.73 | 0.828 | | 29.49 | |
| | | | | | | | | | | | | | | | | | | | | | | 28.78 | |
| (27) | 0.00 | 2600.00 | | | 0.00 | 2600.00 | 247,000 | 0.575 | | 0.575 | 2.2 | 1.265 | | 0.229 | 1.494 | ⊙1650 | 40.00 | 0.4 | 0.74 | 1.580 | | 28.33 | |
| | | | | | | | | | | | | | | | | | | | | | | 28.31 | |
| | to | Tratment Facilities | | | | | | | | | | | | | | | | | | | | | |

37.00

| Name of Zone | Area (ha) | | | Population Density | Population | Unit Flow | | |
|---|---|---|---|---|---|---|---|---|
| | Residential | Commercial | Total | | | Per Capita | Commercial | Infiltration |
| ZONE 7 | 6,400 | — | 6,400 | 116 persons/ha | 742,200 persons | 201 l/c/d | 116 $m^3$/ha/d | 7.6 $m^3$/ha/d |

| No. of Sewers | Area by Land Use | | | | Area | | Total Population | Domestic Wastewater Flow | | | | | Other Flow | | Total Design Flow | Designed Sewer | | | | | | | Remarks |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Residential Area | | Commercial Area | | | | | Residential (Ave.) | Commercial (Ave.) | Total | Peaking Factor | Peak Flow | Industrial | Infiltration | | Diameter | Length | Slope | Velocity (Full) | Capacity (Full) | Ground Surface Elevation | Sewer Invert Elevation | |
| | Increment | Total | Increment | Total | Increment | Total | | | | | | | | | | | | | | | | | |
| | ha | ha | ha | ha | ha | ha | persons | $m^3/s$ | $m^3/s$ | $m^3/s$ | | $m^3/s$ | $m^3/s$ | $m^3/s$ | $m^3/s$ | mm | m | ‰ | m/s | $m^3/s$ | m | m | |
| (1) | 45.61 | | | | 45.61 | | 5,290 | 0.012 | | 0.012 | 4.7 | 0.056 | | 0.001 | 0.057 | ⊙ 350 | 570.00 | 2.2 | 0.62 | 0.062 | | 34.65<br>33.40 | |
| (2) | 286.99 | 332.60 | | | 286.99 | 332.60 | 38,580 | 0.090 | | 0.090 | 3.2 | 0.288 | | 0.003 | 0.291 | ⊙ 800 | 770.00 | 0.8 | 0.65 | 0.324 | | 32.95<br>32.33 | |
| (3) | 22.43 | 355.03 | | | 22.43 | 355.03 | 41,180 | 0.096 | | 0.096 | 3.1 | 0.298 | | 0.005 | 0.303 | ⊙ 800 | 970.00 | 0.8 | 0.65 | 0.324 | | 32.33<br>31.55 | |
| (P 7-1) | | | | | | | | | | | | | | | | | | | | | | | Pumping Station |
| (4) | 202.60 | 577.63 | | | 202.60 | 557.63 | 64,690 | 0.150 | | 0.150 | 2.9 | 0.435 | | 0.032 | 0.467 | ⊙ 1000 | 1040.00 | 0.6 | 0.65 | 0.509 | | 34.00<br>33.38 | |
| (5) | 242.68 | 800.31 | | | 242.68 | 800.31 | 92,840 | 0.216 | | 0.216 | 2.7 | 0.583 | | 0.070 | 0.653 | ⊙ 1100 | 1560.00 | 0.6 | 0.69 | 0.656 | | 33.28<br>32.34 | |
| (6) | 189.74 | 990.05 | | | 189.74 | 990.05 | 114,850 | 0.267 | | 0.267 | 2.6 | 0.694 | | 0.087 | 0.781 | ⊙ 1200 | 820.00 | 0.6 | 0.73 | 0.828 | | 31.80<br>31.31 | |
| (7) | 126.85 | 1116.90 | | | 126.85 | 1116.90 | 129,560 | 0.301 | | 0.301 | 2.5 | 0.753 | | 0.098 | 0.851 | ⊙ 1350 | 1710.00 | 0.5 | 0.72 | 1.034 | | 31.16<br>30.31 | |
| (8) | 167.22 | 1284.12 | | | 167.22 | 1284.12 | 148,960 | 0.347 | | 0.347 | 2.4 | 0.833 | | 0.113 | 0.946 | ⊙ 1350 | 300.00 | 0.5 | 0.72 | 1.034 | | 30.31<br>30.16 | |
| (P 7-2) | | | | | | | | | | | | | | | | | | | | | 37.00 | | Pumping Station |
| (9) | 136.20 | 1420.32 | | | 136.20 | 1420.32 | 164,760 | 0.383 | | 0.383 | 2.4 | 0.919 | | 0.125 | 1.044 | ⊙ 1500 | 1700.00 | 0.5 | 0.78 | 1.370 | | 33.50<br>32.65 | |
| (10) | 180.56 | 1600.88 | | | 180.56 | 1600.88 | 185,700 | 0.432 | | 0.432 | 2.3 | 0.994 | | 0.141 | 1.135 | ⊙ 1500 | 560.00 | 0.5 | 0.78 | 1.370 | | 32.65<br>32.37 | |
| (11) | 193.19 | 1794.07 | | | 193.19 | 1794.07 | 208,110 | 0.484 | | 0.484 | 2.3 | 1.113 | | 0.158 | 1.271 | ⊙ 1500 | 1350.00 | 0.5 | 0.78 | 1.370 | | 32.37<br>31.70 | |
| (12) | 229.33 | 2023.40 | | | 229.33 | 2023.40 | 234,110 | 0.546 | | 0.546 | 2.2 | 1.201 | | 0.178 | 1.379 | ⊙ 1650 | 380.00 | 0.4 | 0.74 | 1.580 | | 30.95<br>30.80 | |
| | to | (30) | | | | | | | | | | | | | | | | | | | | | |
| (13) | 52.05 | | | | 52.05 | | 6,040 | 0.014 | | 0.014 | 4.6 | 0.064 | | 0.005 | 0.069 | ⊙ 400 | 1370.00 | 1.9 | 0.63 | 0.079 | | 34.60<br>32.00 | |
| (14) | 128.98 | 181.03 | | | 128.98 | 181.03 | 21,000 | 0.049 | | 0.049 | 3.5 | 0.172 | | 0.016 | 0.188 | ⊙ 700 | 590.00 | 1.0 | 0.66 | 0.254 | | 31.70<br>31.11 | |
| (15) | 77.01 | 258.04 | | | 77.01 | 258.04 | 29,930 | 0.070 | | 0.070 | 3.3 | 0.231 | | 0.023 | 0.254 | ⊙ 700 | 820.00 | 1.0 | 0.66 | 0.254 | | 31.11<br>30.29 | |
| (16) | 361.62 | 619.66 | | | 361.62 | 619.66 | 71,880 | 0.167 | | 0.167 | 2.8 | 0.468 | | 0.055 | 0.523 | ⊙ 1100 | 420.00 | 0.6 | 0.69 | 0.656 | | 29.90<br>29.64 | |
| (17) | 170.22 | 789.88 | | | 170.22 | 789.88 | 91,630 | 0.213 | | 0.213 | 2.7 | 0.575 | | 0.069 | 0.644 | ⊙ 1100 | 630.00 | 0.6 | 0.69 | 0.656 | | 29.64<br>29.26 | |

| Name of Zone | Area (ha) | | | Population Density | Population | Unit Flow | | |
|---|---|---|---|---|---|---|---|---|
| | Residential | Commercial | Total | | | Per Capita | Commercial | Infiltration |
| ZONE 7 | 6,400 | —— | 6,400 | 116 persons/ha | 742,200 persons | 201 l/c/d | 116 $m^3$/ha/d | 7.6 $m^3$/ha/d |

| No. of Sewers | Area by Land Use | | | | Area | | Total Population | Domestic Wastewater Flow | | | | | Other Flow | | Total Design Flow | Designed Sewer | | | | | | | Remarks |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Residential Area | | Commercial Area | | | | | Residential (Ave.) | Commercial (Ave.) | Total | Peaking Factor | Peak Flow | Industrial | Infiltration | | Diameter | Length | Slope | Velocity (Full) | Capacity (Full) | Ground Surface Elevation | Sewer Invert Elevation | |
| | Increment | Total | Increment | Total | Increment | Total | | | | | | | | | | | | | | | | | |
| | ha | ha | ha | ha | ha | ha | persons | $m^3$/s | $m^3$/s | $m^3$/s | | $m^3$/s | $m^3$/s | $m^3$/s | $m^3$/s | mm | m | ‰ | m/s | $m^3$/s | m | | |
| (P 7-3) | | | | | | | | | | | | | | | | | | | | | | | Pumping Station |
| (18) | 200.72 | 990.60 | | | 200.72 | 990.60 | 114,910 | 0.267 | | 0.267 | 2.6 | 0.694 | | 0.087 | 0.781 | ⊙ 1200 | 2050.00 | 0.6 | 0.73 | 0.628 | | 33.80 | |
| | | | | | | | | | | | | | | | | | | | | | | 32.57 | |
| (19) | 713.55 | 1704.15 | | | 713.55 | 1704.15 | 197,680 | 0.460 | | 0.460 | 2.3 | 1.058 | | 0.150 | 1.208 | ⊙ 1500 | 1060.00 | 0.5 | 0.78 | 1.370 | | 32.27 | |
| | | | | | | | | | | | | | | | | | | | | | | 31.74 | |
| (20) | 351.52 | 2055.67 | | | 351.52 | 2055.67 | 238,460 | 0.555 | | 0.555 | 2.2 | 1.221 | | 0.181 | 1.402 | ⊙ 1650 | 810.00 | 0.4 | 0.74 | 1.580 | | 31.59 | |
| | | | | | | | | | | | | | | | | | | | | | | 31.27 | |
| (21) | 270.15 | 2325.82 | | | 270.15 | 2325.82 | 269,800 | 0.628 | | 0.628 | 2.2 | 1.382 | | 0.205 | 1.587 | ⊙ 1800 | 1140.00 | 0.4 | 0.78 | 1.992 | | 31.12 | |
| | | | | | | | | | | | | | | | | | | | | | | 30.66 | |
| | to | (28) | | | | | | | | | | | | | | | | | | | | | |
| (22) | 83.28 | | | | 83.28 | | 9,660 | 0.022 | | 0.022 | 4.1 | 0.090 | | 0.007 | 0.097 | ⊙ 450 | 1500.00 | 1.6 | 0.62 | 0.099 | 37.00 | 34.55 | |
| | | | | | | | | | | | | | | | | | | | | | | 32.15 | |
| (23) | 61.58 | 144.86 | | | 61.58 | 144.86 | 16,800 | 0.039 | | 0.039 | 3.7 | 0.144 | | 0.013 | 0.157 | ⊙ 600 | 1030.00 | 1.2 | 0.65 | 0.184 | | 32.00 | |
| | | | | | | | | | | | | | | | | | | | | | | 30.76 | |
| (24) | 123.10 | 267.96 | | | 123.10 | 267.96 | 31.080 | 0.072 | | 0.072 | 3.2 | 0.230 | | 0.024 | 0.254 | ⊙ 700 | 910.00 | 1.0 | 0.66 | 0.254 | | 30.66 | |
| | | | | | | | | | | | | | | | | | | | | | | 29.75 | |
| (P 7-4) | | | | | | | | | | | | | | | | | | | | | | | Pumping Station |
| (25) | 220.25 | 488.21 | | | 220.25 | 488.21 | 36,630 | 0.132 | | 0.132 | 2.9 | 0.383 | | 0.043 | 0.426 | ⊙ 900 | 820.00 | 0.8 | 0.70 | 0.444 | | 34.10 | |
| | | | | | | | | | | | | | | | | | | | | | | 33.44 | |
| (26) | 190.66 | 678.87 | | | 190.66 | 678.87 | 78,750 | 0.183 | | 0.183 | 2.7 | 0.494 | | 0.060 | 0.554 | ⊙ 1100 | 1140.00 | 0.6 | 0.69 | 0.656 | | 33.24 | |
| | | | | | | | | | | | | | | | | | | | | | | 32.56 | |
| (27) | 87.79 | 766.66 | | | 87.79 | 766.66 | 88,930 | 0.207 | | 0.207 | 2.7 | 0.559 | | 0.067 | 0.626 | ⊙ 1100 | 1240.00 | 0.6 | 0.69 | 0.656 | | 32.56 | |
| | | | | | | | | | | | | | | | | | | | | | | 31.82 | |
| (28) | 211.81 | 3304.29 | | | 211.81 | 3304.29 | 383,300 | 0.892 | | 0.892 | 2.1 | 1.873 | | 0.291 | 2.164 | ⊙ 1900 | 920.00 | 0.4 | 0.81 | 2.301 | | 30.56 | |
| | | | | | | | | | | | | | | | | | | | | | | 30.19 | |
| (29) | 96.34 | 3400.63 | | | 96.34 | 3400.63 | 394,470 | 0.918 | | 0.918 | 2.0 | 1.836 | | 0.299 | 2.135 | ⊙ 1900 | 1060.00 | 0.4 | 0.81 | 2.301 | | 30.19 | |
| | | | | | | | | | | | | | | | | | | | | | | 29.77 | |
| (30) | 30.29 | 5454.32 | | | 30.29 | 5454.32 | 632,700 | 1.472 | | 1.472 | 1.9 | 2.797 | | 0.480 | 3.277 | ⊙ 2200 | 280.00 | 0.4 | 0.90 | 3.402 | | 29.47 | |
| | | | | | | | | | | | | | | | | | | | | | | 29.36 | |
| | to | (37) | | | | | | | | | | | | | | | | | | | | | |
| (31) | 51.74 | | | | 51.74 | | 6,000 | 0.014 | | 0.014 | 4.6 | 0.064 | | 0.005 | 0.069 | ⊙ 400 | 300.00 | 1.9 | 0.63 | 0.079 | | 34.60 | |
| | | | | | | | | | | | | | | | | | | | | | | 34.03 | |
| (32) | 94.67 | 146.41 | | | 94.67 | 146.41 | 16,980 | 0.040 | | 0.040 | 3.7 | 0.237 | | 0.013 | 0.250 | ⊙ 700 | 760.00 | 1.0 | 0.66 | 0.254 | | 33.73 | |
| | | | | | | | | | | | | | | | | | | | | | | 32.97 | |
| (33) | 127.90 | 274.31 | | | 127.90 | 274.31 | 31,820 | 0.074 | | 0.074 | 3.2 | 0.237 | | 0.024 | 0.261 | ⊙ 800 | 1110.00 | 0.8 | 0.65 | 0.324 | | 32.87 | |
| | | | | | | | | | | | | | | | | | | | | | | 31.98 | |

| Name of Zone | Area (ha) | | | Population Density | Population | Unit Flow | | |
|---|---|---|---|---|---|---|---|---|
| | Residential | Commercial | Total | | | Per Capita | Commercial | Infiltration |
| ZONE 7 | 6,400 | — | 6,400 | 116 persons/ha | 742,200 persons | 201 l/c/d | 116 $m^3$/ha/d | 7.6 $m^3$/ha/d |

| No. of Sewers | Area by Land Use | | | | Area | | Total Population | Domestic Wastewater Flow | | | | | Other Flow | | Total Design Flow | Designed Sewer | | | | | | | Remarks |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Residential Area | | Commercial Area | | | | | Residential (Ave.) | Commercial (Ave.) | Total | Peaking Factor | Peak Flow | Industrial | Infiltration | | Diameter | Length | Slope | Velocity (Full) | Capacity (Full) | Ground Surface Elevation | Sewer Invert Elevation | |
| | Increment | Total | Increment | Total | Increment | Total | | | | | | | | | | | | | | | | | |
| | ha | ha | ha | ha | ha | ha | persons | $m^3$/s | $m^3$/s | $m^3$/s | | $m^3$/s | $m^3$/s | $m^3$/s | $m^3$/s | mm | m | ‰ | m/s | $m^3$/s | m | m | |
| (34) | 125.05 | 399.36 | | | 125.05 | 399.36 | 46,330 | 0.108 | | 0.108 | 3.1 | 0.335 | | 0.035 | 0.370 | ⊙ 900 | 900.00 | 0.8 | 0.70 | 0.444 | 37.00 | 31.88 | |
| | | | | | | | | | | | | | | | | | | | | | | 31.16 | |
| (35) | 91.81 | 499.17 | | | 91.81 | 491.17 | 56,980 | 0.133 | | 0.133 | 2.9 | 0.386 | | 0.043 | 0.429 | ⊙ 900 | 1020.67 | 0.8 | 0.70 | 0.444 | | 31.16 | |
| | | | | | | | | | | | | | | | | | | | | | | 30.34 | |
| (36) | 86.36 | 577.53 | | | 86.36 | 577.53 | 66,990 | 0.156 | | 0.156 | 2.8 | 0.437 | | 0.051 | 0.488 | ⊙ 1000 | 2240.00 | 0.6 | 0.69 | 0.656 | | 30.24 | |
| | | | | | | | | | | | | | | | | | | | | | | 28.90 | |
| (37) | 49.19 | 6081.04 | | | 49.19 | 6081.04 | 705,400 | 1.641 | | 1.641 | 1.9 | 3.118 | | 0.535 | 3.653 | ⊙ 2300 | 990.00 | 0.4 | 0.92 | 3.831 | | 27.60 | |
| | | | | | | | | | | | | | | | | | | | | | | 27.20 | |
| (38) | 318.96 | 6400.00 | | | 318.96 | 6400.00 | 742,400 | 1.727 | | 1.727 | 1.9 | 3.281 | | 0.563 | 3.844 | ⊙ 2400 | 800.00 | 0.4 | 0.95 | 4.291 | | 27.10 | |
| | | | | | | | | | | | | | | | | | | | | | | 26.78 | |
| | to Treatment Facilities | | | | | | | | | | | | | | | | | | | | | | |

| Name of Zone | Area (ha) | | | Population Density | Population | Unit Flow | | |
|---|---|---|---|---|---|---|---|---|
| | Residential | Commercial | Total | | | Per Capita | Commercial | Infiltration |
| ZONE 8 | 4,195 | 5 | 4,200 | 80 persons/ha | 336,700 persons | 201 l/c/d | 116 $m^3$/ha/d | 7.6 $m^3$/ha/d |

| No. of Sewers | Area by Land Use | | | | Area | | Total Population | Domestic Wastewater Flow | | | | | Other Flow | | Total Design Flow | Designed Sewer | | | | | | | Remarks |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Residential Area | | Commercial Area | | | | | Residential (Ave.) | Commercial (Ave.) | Total | Peaking Factor | Peak Flow | Industrial | Infiltration | | Diameter | Length | Slope | Velocity (Full) | Capacity (Full) | Ground Surface Elevation | Sewer Invert Elevation | |
| | Increment | Total | Increment | Total | Increment | Total | | | | | | | | | | | | | | | | | |
| | ha | ha | ha | ha | ha | ha | persons | $m^3$/s | $m^3$/s | $m^3$/s | | $m^3$/s | $m^3$/s | $m^3$/s | $m^3$/s | mm | m | ‰ | m/s | $m^3$/s | m | | |
| (1) | 17.72 | | 5.00 | | 22.72 | | 1,820 | 0.004 | 0.007 | 0.011 | 4.8 | 0.052 | | 0.002 | 0.054 | ⊙ 350 | 470.00 | 2.2 | 0.62 | 0.059 | | 34.65 | |
| | | | | | | | | | | | | | | | | | | | | | | 33.62 | |
| (2) | 57.28 | 75.00 | | 5.00 | 57.28 | 80.00 | 6,400 | 0.015 | 0.007 | 0.022 | 4.2 | 0.092 | | 0.007 | 0.099 | ⊙ 450 | 670.00 | 1.6 | 0.62 | 0.099 | | 33.52 | |
| | | | | | | | | | | | | | | | | | | | | | | 32.45 | |
| (3) | 73.63 | 148.63 | | 5.00 | 73.63 | 153.63 | 12,290 | 0.029 | 0.007 | 0.036 | 3.7 | 0.133 | | 0.014 | 0.147 | ⊙ 600 | 790.00 | 1.2 | 0.65 | 0.184 | | 32.30 | |
| | | | | | | | | | | | | | | | | | | | | | | 31.35 | |
| (4) | 60.36 | 208.99 | | 5.00 | 60.36 | 213.99 | 17,120 | 0.040 | 0.007 | 0.047 | 3.6 | 0.169 | | 0.019 | 0.188 | ⊙ 700 | 450.00 | 1.0 | 0.66 | 0.254 | | 31.25 | |
| | | | | | | | | | | | | | | | | | | | | | | 30.80 | |
| (5) | 177.37 | 386.36 | | 5.00 | 177.37 | 391.36 | 31,310 | 0.073 | 0.007 | 0.080 | 3.3 | 0.264 | | 0.034 | 0.298 | ⊙ 800 | 1100.00 | 0.8 | 0.65 | 0.324 | | 30.70 | |
| | | | | | | | | | | | | | | | | | | | | | | 29.81 | |
| (P 8-1) | | | | | | | | | | | | | | | | | | | | | | | Pumping Station |
| (6) | 132.14 | 518.50 | | 5.00 | 132.14 | 523.50 | 41,880 | 0.097 | 0.007 | 0.104 | 3.1 | 0.322 | | 0.046 | 0.368 | ⊙ 900 | 780.00 | 0.8 | 0.70 | 0.444 | | 34.10 | |
| | | | | | | | | | | | | | | | | | | | | | | 33.48 | |
| (7) | 569.42 | 1087.92 | | 5.00 | 569.42 | 1092.92 | 87,430 | 0.203 | 0.007 | 0.210 | 2.7 | 0.567 | | 0.096 | 0.663 | ⊙ 1200 | 1470.00 | 0.6 | 0.73 | 0.828 | | 33.18 | |
| | | | | | | | | | | | | | | | | | | | | | | 32.30 | |
| (8) | 340.79 | 1428.71 | | 5.00 | 340.79 | 1433.71 | 114,700 | 0.267 | 0.007 | 0.274 | 2.6 | 0.712 | | 0.126 | 0.838 | ⊙ 1350 | 1010.00 | 0.5 | 0.72 | 1.034 | | 32.15 | |
| | | | | | | | | | | | | | | | | | | | | | | 31.65 | |
| (9) | 93.91 | 1522.62 | | 5.00 | 93.91 | 1527.62 | 122,210 | 0.284 | 0.007 | 0.291 | 2.6 | 0.757 | | 0.134 | 0.891 | ⊙ 1350 | 990.00 | 0.5 | 0.72 | 1.034 | | 31.65 | |
| | | | | | | | | | | | | | | | | | | | | | | 31.16 | |
| (10) | 329.56 | 1852.18 | | 5.00 | 329.56 | 1857.18 | 148,570 | 0.346 | 0.007 | 0.353 | 2.4 | 0.847 | | 0.163 | 1.010 | ⊙ 1350 | 1020.00 | 0.5 | 0.72 | 1.034 | | 31.16 | |
| | | | | | | | | | | | | | | | | | | | | | | 30.65 | |
| (11) | 639.94 | 2492.12 | | 5.00 | 639.94 | 2497.12 | 199,770 | 0.465 | 0.007 | 0.472 | 2.3 | 1.086 | | 0.220 | 1.306 | ⊙ 1500 | 1900.00 | 0.5 | 0.78 | 1.370 | | 30.50 | |
| | | | | | | | | | | | | | | | | | | | | | | 29.55 | |
| | to (19) | | | | | | | | | | | | | | | | | | | | | | |
| (12) | 43.99 | | | | 43.99 | | 3,520 | 0.008 | | 0.008 | 4.8 | 0.038 | | 0.004 | 0.042 | ⊙ 300 | 800.00 | 2.8 | 0.63 | 0.044 | | 34.70 | |
| | | | | | | | | | | | | | | | | | | | | | | 32.46 | |
| (13) | 88.27 | 132.26 | | | 88.27 | 132.26 | 10,580 | 0.025 | | 0.025 | 4.0 | 0.100 | | 0.012 | 0.112 | ⊙ 500 | 790.00 | 1.4 | 0.62 | 0.122 | | 32.26 | |
| | | | | | | | | | | | | | | | | | | | | | | 31.15 | |
| (14) | 167.73 | 299.99 | | | 167.73 | 299.99 | 24,000 | 0.056 | | 0.056 | 3.4 | 0.190 | | 0.026 | 0.216 | ⊙ 700 | 570.00 | 1.0 | 0.66 | 0.254 | | 30.95 | |
| | | | | | | | | | | | | | | | | | | | | | | 30.38 | |
| (15) | 285.01 | 585.00 | | | 285.01 | 585.00 | 46,800 | 0.109 | | 0.109 | 3.1 | 0.338 | | 0.041 | 0.379 | ⊙ 900 | 970.00 | 0.8 | 0.70 | 0.444 | | 30.18 | |
| | | | | | | | | | | | | | | | | | | | | | | 29.40 | |
| (P 8-2) | | | | | | | | | | | | | | | | | | | | | | | Pumping Station |
| (16) | 73.21 | 658.21 | | | 73.21 | 658.21 | 52,660 | 0.123 | | 0.123 | 3.0 | 0.369 | | 0.058 | 0.427 | ⊙ 900 | 1100.00 | 0.8 | 0.70 | 0.444 | | 34.10 | |
| | | | | | | | | | | | | | | | | | | | | | | 33.22 | |
| (17) | 237.55 | 895.76 | | | 237.55 | 895.76 | 71,660 | 0.167 | | 0.167 | 2.8 | 0.468 | | 0.079 | 0.468 | ⊙ 1000 | 1230.00 | 0.6 | 0.65 | 0.509 | | 33.12 | |
| | | | | | | | | | | | | | | | | | | | | | | 32.38 | |

37.00

| Name of Zone | Area (ha) | | | Population Density | Population | Unit Flow | | |
|---|---|---|---|---|---|---|---|---|
| | Residential | Commercial | Total | | | Per Capita | Commercial | Infiltration |
| ZONE 8 | 4,195 | 5 | 4,200 | 80 persons/ha | 336,700 persons | 201 l/c/d | 116 $m^3$/ha/d | 7.6 $m^3$/ha/d |

| No. of Sewers | Area by Land Use | | | | Area | | Total Population | Domestic Wastewater Flow | | | | | Other Flow | | Total Design Flow | Designed Sewer | | | | | | | Remarks |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Residential Area | | Commercial Area | | | | | Residential (Ave.) | Commercial (Ave.) | Total | Peaking Factor | Peak Flow | Industrial | Infiltration | | Diameter | Length | Slope | Velocity (Full) | Capacity (Full) | Ground Surface Elevation | Sewer Invert Elevation | |
| | Increment | Total | Increment | Total | Increment | Total | | | | | | | | | | | | | | | | | |
| | ha | ha | ha | ha | ha | ha | persons | $m^3$/s | $m^3$/s | $m^3$/s | | $m^3$/s | $m^3$/s | $m^3$/s | $m^3$/s | mm | m | ‰ | m/s | $m^3$/s | m | m | |
| (18) | 387.93 | 1283.69 | | | 387.93 | 1283.69 | 102,700 | 0.239 | | 0.239 | 2.7 | 0.645 | | 0.113 | 0.758 | ⊙1200 | 1030.00 | 0.6 | 0.73 | 0.828 | 37.00 | 32.18 | |
| | | | | | | | | | | | | | | | | | | | | | | 31.56 | |
| (19) | 43.66 | 3819.47 | | 5.00 | 43.66 | 3824.47 | 305,960 | 0.712 | 0.007 | 0.719 | 2.2 | 1.582 | | 0.336 | 1.918 | ⊙1800 | 690.00 | 0.4 | 0.79 | 1.992 | | 29.25 | |
| | | | | | | | | | | | | | | | | | | | | | | 28.97 | |
| (20) | 375.53 | 4195.00 | | 5.00 | 375.53 | 4200.00 | 336,000 | 0.782 | 0.007 | 0.789 | 2.1 | 1.657 | | 0.369 | 2.026 | ⊙1900 | 410.00 | 0.4 | 0.81 | 2.301 | | 28.87 | |
| | | | | | | | | | | | | | | | | | | | | | | 28.71 | |
| | to Treatment Facilities | | | | | | | | | | | | | | | | | | | | | | |

| Name of Zone | Area (ha) | | | Population Density | Population | Unit Flow | | |
|---|---|---|---|---|---|---|---|---|
| | Residential | Commercial | Total | | | Per Capita | Commercial | Infiltration |
| ZONE 9 | 4,595 | 5 | 4,600 | 80 persons/ha | 368,100 persons | 201 l/c/d | 116 $m^3$/ha/d | 7.6 $m^3$/ha/d |

| No. of Sewers | Area by Land Use | | | | Area | | Total Population | Domestic Wastewater Flow | | | | | Other Flow | | Total Design Flow | Designed Sewer | | | | | | | Remarks |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Residential Area | | Commercial Area | | | | | Residential (Ave.) | Commercial (Ave.) | Total | Peaking Factor | Peak Flow | Industrial | Infiltration | | Diameter | Length | Slope | Velocity (Full) | Capacity (Full) | Ground Surface Elevation | Sewer Invert Elevation | |
| | Increment | Total | Increment | Total | Increment | Total | | | | | | | | | | | | | | | | | |
| | ha | ha | ha | ha | ha | ha | persons | $m^3$/s | $m^3$/s | $m^3$/s | | $m^3$/s | $m^3$/s | $m^3$/s | $m^3$/s | mm | m | ‰ | m/s | $m^3$/s | m | m | |
| ① | 26.46 | | 5.00 | | 31.46 | | 2,520 | 0.006 | 0.007 | 0.013 | 4.6 | 0.060 | | 0.003 | 0.063 | ⊙ 400 | 530.00 | 1.9 | 0.63 | 0.079 | | 34.60 | |
| | | | | | | | | | | | | | | | | | | | | | | 33.59 | |
| ② | 46.97 | 73.43 | | 5.00 | 46.97 | 78.43 | 6,280 | 0.015 | 0.007 | 0.022 | 4.0 | 0.088 | | 0.007 | 0.095 | ⊙ 450 | 510.00 | 1.6 | 0.62 | 0.099 | | 33.54 | |
| | | | | | | | | | | | | | | | | | | | | | | 32.05 | |
| ③ | 376.24 | 449.67 | | 5.00 | 376.24 | 454.67 | 36,370 | 0.085 | 0.007 | 0.092 | 3.1 | 0.285 | | 0.040 | 0.325 | ⊙ 900 | 830.00 | 0.8 | 0.70 | 0.444 | | 31.60 | |
| | | | | | | | | | | | | | | | | | | | | | | 30.94 | |
| ④ | 172.18 | 621.85 | | 5.00 | 172.18 | 626.85 | 50,150 | 0.117 | 0.007 | 0.124 | 3.0 | 0.372 | | 0.055 | 0.427 | ⊙ 900 | 640.00 | 0.8 | 0.70 | 0.444 | | 30.94 | |
| | | | | | | | | | | | | | | | | | | | | | | 30.43 | |
| ⑤ | 68.11 | 689.96 | | 5.00 | 68.11 | 694.96 | 55,600 | 0.129 | 0.007 | 0.136 | 2.9 | 0.394 | | 0.061 | 0.455 | ⊙1 000 | 350.00 | 0.6 | 0.65 | 0.509 | | 30.33 | |
| | | | | | | | | | | | | | | | | | | | | | | 30.12 | |
| ⑥ | 96.22 | 786.18 | | 5.00 | 96.22 | 791.18 | 63,290 | 0.147 | 0.007 | 0.154 | 2.8 | 0.431 | | 0.070 | 0.501 | ⊙1 000 | 740.00 | 0.6 | 0.65 | 0.509 | | 30.12 | |
| | | | | | | | | | | | | | | | | | | | | | | 29.68 | |
| (P 9-1) | | | | | | | | | | | | | | | | | | | | | | | Pumping Station |
| ⑦ | 295.41 | 1082.59 | | 5.00 | 296.41 | 1087.59 | 87,010 | 0.202 | 0.007 | 0.209 | 2.7 | 0.564 | | 0.096 | 0.660 | ⊙1200 | 1820.00 | 0.6 | 0.73 | 0.828 | 37.00 | 33.80 | |
| | | | | | | | | | | | | | | | | | | | | | | 32.71 | |
| ⑧ | 249.51 | 1332.10 | | 5.00 | 249.51 | 1337.10 | 106,970 | 0.249 | 0.007 | 0.256 | 2.6 | 0.666 | | 0.118 | 0.784 | ⊙1200 | 1280.00 | 0.6 | 0.73 | 0.828 | | 32.71 | |
| | | | | | | | | | | | | | | | | | | | | | | 31.94 | |
| ⑨ | 585.11 | 1917.21 | | 5.00 | 585.11 | 1922.21 | 153,780 | 0.358 | 0.007 | 0.365 | 2.4 | 0.876 | | 0.169 | 1.045 | ⊙1500 | 1180.00 | 0.5 | 0.78 | 1.370 | | 31.64 | |
| | | | | | | | | | | | | | | | | | | | | | | 31.05 | |
| ⑩ | 402.20 | 2319.41 | | 5.00 | 402.20 | 2324.41 | 185,960 | 0.433 | 0.007 | 0.440 | 2.3 | 1.012 | | 0.204 | 1.216 | ⊙1500 | 1730.00 | 0.5 | 0.78 | 1.370 | | 31.05 | |
| | | | | | | | | | | | | | | | | | | | | | | 30.19 | |
| ⑪ | 1078.64 | 3398.05 | | 5.00 | 1078.64 | 3403.05 | 272,240 | 0.633 | 0.007 | 0.640 | 2.2 | 1.408 | | 0.299 | 1.707 | ⊙1800 | 510.00 | 0.4 | 0.78 | 1.992 | | 29.89 | |
| | | | | | | | | | | | | | | | | | | | | | | 29.69 | |
| | to | (20) | | | | | | | | | | | | | | | | | | | | | |
| ⑫ | 75.36 | | | | 75.36 | | 6,030 | 0.014 | | 0.014 | 4.5 | 0.063 | | 0.007 | 0.070 | ⊙ 400 | 1230.00 | 1.9 | 0.63 | 0.079 | | 34.60 | |
| | | | | | | | | | | | | | | | | | | | | | | 32.26 | |
| ⑬ | 100.24 | 175.60 | | | 100.24 | 175.60 | 14,050 | 0.033 | | 0.033 | 3.8 | 0.125 | | 0.015 | 0.140 | ⊙ 600 | 280.00 | 1.2 | 0.65 | 0.184 | | 32.06 | |
| | | | | | | | | | | | | | | | | | | | | | | 31.72 | |
| ⑭ | 135.66 | 311.26 | | | 135.66 | 311.26 | 24,900 | 0.058 | | 0.058 | 3.4 | 0.197 | | 0.027 | 0.224 | ⊙ 700 | 510.00 | 1.0 | 0.66 | 0.254 | | 31.62 | |
| | | | | | | | | | | | | | | | | | | | | | | 31.11 | |
| ⑮ | 56.08 | 367.34 | | | 56.08 | 367.34 | 29,390 | 0.068 | | 0.068 | 3.3 | 0.224 | | 0.032 | 0.256 | ⊙ 800 | 440.00 | 0.8 | 0.65 | 0.324 | | 31.01 | |
| | | | | | | | | | | | | | | | | | | | | | | 30.66 | |
| ⑯ | 215.91 | 583.25 | | | 215.91 | 583.25 | 46,660 | 0.109 | | 0.109 | 3.1 | 0.338 | | 0.051 | 0.389 | ⊙ 900 | 690.00 | 0.8 | 0.70 | 0.444 | | 30.56 | |
| | | | | | | | | | | | | | | | | | | | | | | 30.01 | |
| (P 9-2) | | | | | | | | | | | | | | | | | | | | | | | Pumping Station |
| ⑰ | 115.50 | 698.75 | | | 115.50 | 698.75 | 55,900 | 0.130 | | 0.130 | 3.0 | 0.390 | | 0.061 | 0.451 | ⊙1000 | 900.00 | 0.6 | 0.65 | 0.509 | | 34.00 | |
| | | | | | | | | | | | | | | | | | | | | | | 33.46 | |

| Name of Zone | Area (ha) | | | Population Density | Population | Unit Flow | | |
|---|---|---|---|---|---|---|---|---|
| | Residential | Commercial | Total | | | Per Capita | Commercial | Infiltration |
| ZONE 9 | 4,595 | 5 | 4,600 | 80 persons/ha | 368,100 persons | 201 l/c/d | 116 $m^3$/ha/d | 7.6 $m^3$/ha/d |

| No. of Sewers | Area by Land Use | | | | Area | | Total Population | Domestic Wastewater Flow | | | | | Other Flow | | Total Design Flow | Designed Sewer | | | | | | | Remarks |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Residential Area | | Commercial Area | | | | | Residential (Ave.) | Commercial (Ave.) | Total | Peaking Factor | Peak Flow | Industrial | Infiltration | | Diameter | Length | Slope | Velocity (Full) | Capacity (Full) | Ground Surface Elevation | Sewer Invert Elevation | |
| | Increment | Total | Increment | Total | Increment | Total | | | | | | | | | | | | | | | | | |
| | ha | ha | ha | ha | ha | ha | persons | $m^3$/s | $m^3$/s | $m^3$/s | | $m^3$/s | $m^3$/s | $m^3$/s | $m^3$/s | mm | m | ‰ | m/s | $m^3$/s | m | m | |
| (18) | 171.40 | 870.15 | | | 171.40 | 870.15 | 69,610 | 0.162 | | 0.162 | 2.8 | 0.454 | | 0.077 | 0.531 | ⊙1100 | 780.00 | 0.6 | 0.73 | 0.826 | 37.00 | 33.36 | |
| | | | | | | | | | | | | | | | | | | | | | | 32.89 | |
| (19) | 42.60 | 912.75 | | | 42.60 | 912.75 | 73,020 | 0.170 | | 0.170 | 2.8 | 0.476 | | 0.080 | 0.556 | ⊙1100 | 900.00 | 0.6 | 0.73 | 0.828 | | 32.89 | |
| | | | | | | | | | | | | | | | | | | | | | | 32.35 | |
| (20) | 284.20 | 4595 | | 5.00 | 284.20 | 4600.00 | 368,000 | 0.856 | 0.007 | 0.863 | 2.1 | 1.812 | | 0.405 | 2.217 | ⊙1900 | 500.00 | 0.4 | 0.81 | 2.301 | | 29.58 | |
| | | | | | | | | | | | | | | | | | | | | | | 29.39 | |
| | to Treatment Facilities | | | | | | | | | | | | | | | | | | | | | | |

| Name of Zone | Area (ha) | | | Population Density | Population | Unit Flow | | |
|---|---|---|---|---|---|---|---|---|
| | Residential | Commercial | Total | | | Per Capita | Commercial | Infiltration |
| ZONE 10 | 5,355 | 145 | 5,500 | 197 persons/ha | 1,085,000 persons | 201 l/c/d | 116 $m^3$/ha/d | 7.6 $m^3$/ha/d |

| No. of Sewers | Area by Land Use | | | | Area | | Total Population | Domestic Wastewater Flow | | | | | Other Flow | | Total Design Flow | Designed Sewer | | | | | | | Remarks |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Residential Area | | Commercial Area | | | | | Residential (Ave.) | Commercial (Ave.) | Total | Peaking Factor | Peak Flow | Industrial | Infiltration | | Diameter | Length | Slope | Velocity (Full) | Capacity (Full) | Ground Surface Elevation | Sewer Invert Elevation | |
| | Increment | Total | Increment | Total | Increment | Total | | | | | | | | | | | | | | | | | |
| | ha | ha | ha | ha | ha | ha | persons | $m^3$/s | $m^3$/s | $m^3$/s | | $m^3$/s | $m^3$/s | $m^3$/s | $m^3$/s | mm | m | ‰ | m/s | $m^3$/s | m | | |
| ① | 61.36 | | | | 61.36 | | 12,090 | 0.028 | | 0.028 | 3.9 | 0.109 | | 0.005 | 0.114 | ⊙ 500 | 1200.00 | 1.4 | 0.62 | 0.122 | | 34.50 | |
| | | | | | | | | | | | | | | | | | | | | | | 32.82 | |
| ② | 89.05 | 150.41 | | | 89.05 | 150.41 | 29,630 | 0.069 | | 0.069 | 3.3 | 0.228 | | 0.013 | 0.241 | ⊙ 700 | 800.00 | 1.0 | 0.66 | 0.254 | | 32.62 | |
| | | | | | | | | | | | | | | | | | | | | | | 31.82 | |
| ③ | 86.23 | 236.64 | | | 86.23 | 236.64 | 46,620 | 0.108 | | 0.108 | 3.1 | 0.335 | | 0.021 | 0.356 | ⊙ 900 | 650.00 | 0.8 | 0.70 | 0.444 | | 31.62 | |
| | | | | | | | | | | | | | | | | | | | | | | 31.10 | |
| ④ | 68.33 | 304.97 | | | 68.33 | 304.97 | 60,080 | 0.140 | | 0.140 | 2.9 | 0.406 | | 0.030 | 0.436 | ⊙ 900 | 680.00 | 0.8 | 0.70 | 0.444 | | 31.10 | |
| | | | | | | | | | | | | | | | | | | | | | | 30.56 | |
| ⑤ | 76.11 | 381.08 | | | 76.11 | 381.08 | 75,070 | 0.175 | | 0.175 | 2.8 | 0.490 | | 0.034 | 0.514 | ⊙1100 | 380.00 | 0.6 | 0.69 | 0.656 | | 30.36 | |
| | | | | | | | | | | | | | | | | | | | | | | 30.13 | |
| ⑥ | 281.65 | 662.73 | | | 281.65 | 662.73 | 130,560 | 0.304 | | 0.304 | 2.5 | 0.760 | | 0.058 | 0.818 | ⊙1200 | 1020.00 | 0.6 | 0.73 | 0.828 | | 30.03 | |
| | | | | | | | | | | | | | | | | | | | | | | 29.42 | |
| ⑦ | 112.93 | 775.66 | | | 112.93 | 775.66 | 152,810 | 0.355 | | 0.355 | 2.4 | 0.852 | | 0.068 | 0.920 | ⊙1350 | 860.00 | 0.5 | 0.72 | 1.034 | | 29.27 | |
| | | | | | | | | | | | | | | | | | | | | | | 28.84 | |
| (P 10-1) | | | | | | | | | | | | | | | | | | | | | | | Pumping Station |
| ⑧ | 156.62 | 932.28 | | | 156.62 | 932.28 | 183,660 | 0.427 | | 0.427 | 2.3 | 0.982 | | 0.082 | 1.064 | ⊙1500 | 1340.00 | 0.5 | 0.78 | 1.370 | 37.00 | 33.50 | |
| | | | | | | | | | | | | | | | | | | | | | | 32.83 | |
| ⑨ | 216.96 | 1149.24 | | | 216.94 | 1149.24 | 226,400 | 0.527 | | 0.527 | 2.2 | 1.159 | | 0.101 | 1.260 | ⊙1500 | 260.00 | 0.5 | 0.78 | 1.370 | | 32.83 | |
| | | | | | | | | | | | | | | | | | | | | | | 32.70 | |
| ⑩ | 209.55 | 1358.79 | | | 209.55 | 1358.79 | 267,680 | 0.623 | | 0.623 | 2.2 | 1.371 | | 0.120 | 1.491 | ⊙1650 | 1300.00 | 0.4 | 0.74 | 1.580 | | 32.55 | |
| | | | | | | | | | | | | | | | | | | | | | | 32.03 | |
| ⑪ | 79.80 | 1438.59 | | | 79.80 | 1438.59 | 283,400 | 0.659 | | 0.659 | 2.1 | 1.384 | | 0.127 | 1.511 | ⊙1650 | 680.00 | 0.4 | 0.74 | 1.580 | | 32.03 | |
| | | | | | | | | | | | | | | | | | | | | | | 31.76 | |
| ⑫ | 133.06 | 1571.65 | | | 133.06 | 1571.65 | 309,620 | 0.720 | | 0.720 | 2.1 | 1.512 | | 0.138 | 1.650 | ⊙1800 | 1220.00 | 0.4 | 0.78 | 1.992 | | 31.61 | |
| | | | | | | | | | | | | | | | | | | | | | | 31.12 | |
| | to | (16) | | | | | | | | | | | | | | | | | | | | | |
| ⑬ | 24.41 | | | | 24.41 | | 4,810 | 0.011 | | 0.011 | 4.7 | 0.053 | | 0.002 | 0.055 | ⊙ 350 | 560.00 | 2.2 | 0.62 | 0.059 | | 34.65 | |
| | | | | | | | | | | | | | | | | | | | | | | 33.42 | |
| ⑭ | 118.64 | 143.05 | | | 118.64 | 143.05 | 28,180 | 0.066 | | 0.066 | 3.3 | 0.218 | | 0.013 | 0.231 | ⊙ 700 | 550.00 | 1.0 | 0.66 | 0.254 | | 33.07 | |
| | | | | | | | | | | | | | | | | | | | | | | 32.52 | |
| ⑮ | 50.94 | 193.99 | | | 50.94 | 193.99 | 38,220 | 0.089 | | 0.089 | 3.2 | 0.285 | | 0.017 | 0.302 | ⊙ 800 | 1020.00 | 0.8 | 0.65 | 0.324 | | 32.42 | |
| | | | | | | | | | | | | | | | | | | | | | | 31.60 | |
| ⑯ | 50.57 | 1816.21 | | | 50.57 | 1816.21 | 357,790 | 0.832 | | 0.832 | 2.1 | 1.747 | | 0.160 | 1.907 | ⊙1800 | 990.00 | 0.4 | 0.78 | 1.992 | | 30.60 | |
| | | | | | | | | | | | | | | | | | | | | | | 30.20 | |
| ⑰ | 364.32 | 2180.53 | | | 364.32 | 2180.53 | 429,560 | 0.999 | | 0.999 | 2.1 | 2.098 | | 0.192 | 2.290 | ⊙1900 | 1380.00 | 0.4 | 0.81 | 2.301 | | 30.10 | |
| | | | | | | | | | | | | | | | | | | | | | | 29.55 | |
| ⑱ | 190.17 | 2370.70 | | | 190.17 | 2370.70 | 467,030 | 1.086 | | 1.086 | 2.0 | 2.172 | | 0.209 | 2.381 | ⊙2000 | 1480.00 | 0.4 | 0.84 | 2.639 | | 29.45 | |
| | | | | | | | | | | | | | | | | | | | | | | 28.86 | |

| Name of Zone | Area (ha) | | | Population Density | Population | Unit Flow | | |
|---|---|---|---|---|---|---|---|---|
| | Residential | Commercial | Total | | | Per Capita | Commercial | Infiltration |
| ZONE 10 | 5,355 | 145 | 5,500 | 197 persons/ha | 1,085,000 persons | 201 l/c/d | 116 $m^3$/ha/d | 7.6 $m^3$/ha/d |

| No. of Sewers | Area by Land Use | | | | Area | | Total Population | Domestic Wastewater Flow | | | | | Other Flow | | Total Design Flow | Designed Sewer | | | | | | | Remarks |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Residential Area | | Commercial Area | | | | | Residential (Ave.) | Commercial (Ave.) | Total | Peaking Factor | Peak Flow | Industrial | Infiltration | | Diameter | Length | Slope | Velocity (Full) | Capacity (Full) | Ground Surface Elevation | Sewer Invert Elevation | |
| | Increment | Total | Increment | Total | Increment | Total | | | | | | | | | | | | | | | | | |
| | ha | ha | ha | ha | ha | ha | persons | $m^3$/s | $m^3$/s | $m^3$/s | | $m^3$/s | $m^3$/s | $m^3$/s | $m^3$/s | mm | m | ‰ | m/s | $m^3$/s | m | m | |
| (19) | 101.97 | 2472.67 | | | 101.97 | 2472.67 | 487,120 | 1.133 | | 1.133 | 2.0 | 2.266 | | 0.218 | 2.484 | ⊙2000 | 1160.00 | 0.4 | 0.84 | 2.639 | | 28.86 | |
| | | | | | | | | | | | | | | | | | | | | | | 28.40 | |
| | to | (38) | | | | | | | | | | | | | | | | | | | | | |
| (20) | 70.03 | | | | 70.03 | | 13,800 | 0.032 | | 0.032 | 3.8 | 0.122 | | 0.006 | 0.128 | ⊙ 600 | 860.00 | 1.2 | 0.65 | 0.184 | | 34.40 | |
| | | | | | | | | | | | | | | | | | | | | | | 33.37 | |
| (21) | 55.19 | 125.22 | | | 55.19 | 125.22 | 24,670 | 0.057 | | 0.057 | 3.4 | 0.194 | | 0.011 | 0.205 | ⊙ 700 | 870.00 | 1.0 | 0.66 | 0.254 | | 33.27 | |
| | | | | | | | | | | | | | | | | | | | | | | 32.40 | |
| (22) | 90.57 | 215.79 | | | 90.57 | 215.79 | 42,510 | 0.099 | | 0.099 | 3.1 | 0.307 | | 0.019 | 0.326 | ⊙ 900 | 410.00 | 0.8 | 0.70 | 0.444 | | 32.20 | |
| | | | | | | | | | | | | | | | | | | | | | | 31.87 | |
| (23) | 78.59 | 294.38 | 82.61 | | 161.20 | 376.99 | 74,270 | 0.173 | 0.111 | 0.284 | 2.5 | 0.710 | | 0.033 | 0.743 | ⊙1200 | 1050.00 | 0.6 | 0.73 | 0.828 | | 31.57 | |
| | | | | | | | | | | | | | | | | | | | | | | 30.94 | |
| (24) | 88.13 | 382.51 | 48.50 | 131.11 | 136.63 | 513.62 | 101,180 | 0.235 | 0.176 | 0.411 | 2.3 | 0.945 | | 0.045 | 0.990 | ⊙1350 | 1570.00 | 0.5 | 0.72 | 1.034 | | 30.79 | |
| | | | | | | | | | | | | | | | | | | | | | | 30.01 | |
| (25) | 290.50 | 673.01 | 13.89 | 145.00 | 304.39 | 818.01 | 161,150 | 0.375 | 0.195 | 0.570 | 2.2 | 1.254 | | 0.072 | 1.326 | ⊙1500 | 900.00 | 0.5 | 0.78 | 1.370 | | 29.86 | |
| | | | | | | | | | | | | | | | | | | | | | | 29.41 | |
| (26) | 157.59 | 830.60 | | 145.00 | 157.59 | 975.60 | 192,190 | 0.447 | 0.195 | 0.642 | 2.2 | 1.412 | | 0.086 | 1.498 | ⊙1650 | 1340.00 | 0.4 | 0.74 | 1.580 | | 29.26 | |
| | | | | | | | | | | | | | | | | | | | | | 37.00 | 28.72 | |
| (27) | 85.18 | 915.78 | | 145.00 | 85.18 | 1060.78 | 208,970 | 0.486 | 0.195 | 0.681 | 2.1 | 1.430 | | 0.093 | 1.523 | ⊙1650 | 1130.00 | 0.4 | 0.74 | 1.580 | | 28.72 | |
| | | | | | | | | | | | | | | | | | | | | | | 28.27 | |
| (28) | 155.70 | 1071.48 | | 145.00 | 155.70 | 1216.48 | 239,650 | 0.558 | 0.195 | 0.753 | 2.1 | 1.581 | | 0.107 | 1.688 | ⊙1800 | 1150.00 | 0.4 | 0.78 | 1.992 | | 28.12 | |
| | | | | | | | | | | | | | | | | | | | | | | 27.66 | |
| | to | (38) | | | | | | | | | | | | | | | | | | | | | |
| (29) | 50.98 | | | | 50.98 | | 10,040 | 0.023 | | 0.023 | 4.1 | 0.094 | | 0.004 | 0.098 | ⊙ 450 | 710.00 | 1.6 | 0.62 | 0.099 | | 34.55 | |
| | | | | | | | | | | | | | | | | | | | | | | 33.41 | |
| (30) | 67.76 | 118.74 | | | 67.76 | 118.74 | 23,390 | 0.054 | | 0.054 | 3.4 | 0.184 | | 0.010 | 0.194 | ⊙ 700 | 510.00 | 1.0 | 0.66 | 0.254 | | 33.16 | |
| | | | | | | | | | | | | | | | | | | | | | | 32.65 | |
| (31) | 92.41 | 211.15 | | | 92.41 | 211.15 | 41,600 | 0.097 | | 0.097 | 3.1 | 0.301 | | 0.019 | 0.320 | ⊙ 800 | 770.00 | 0.8 | 0.65 | 0.324 | | 32.55 | |
| | | | | | | | | | | | | | | | | | | | | | | 31.93 | |
| (32) | 96.33 | 307.48 | | | 96.33 | 307.48 | 60,570 | 0.141 | | 0.141 | 2.9 | 0.409 | | 0.027 | 0.436 | ⊙ 900 | 720.00 | 0.8 | 0.70 | 0.444 | | 31.83 | |
| | | | | | | | | | | | | | | | | | | | | | | 31.25 | |
| (33) | 170.28 | 477.76 | | | 170.28 | 477.76 | 94,120 | 0.219 | | 0.219 | 2.7 | 0.591 | | 0.042 | 0.633 | ⊙1100 | 800.00 | 0.6 | 0.69 | 0.656 | | 31.05 | |
| | | | | | | | | | | | | | | | | | | | | | | 30.57 | |
| (34) | 459.64 | 937.40 | | | 459.64 | 937.40 | 184,670 | 0.430 | | 0.430 | 2.3 | 0.989 | | 0.082 | 1.071 | ⊙1500 | 1150.00 | 0.5 | 0.78 | 1.370 | | 30.17 | |
| | | | | | | | | | | | | | | | | | | | | | | 29.60 | |
| (35) | 166.48 | 1103.88 | | | 166.48 | 1103.88 | 217,460 | 0.506 | | 0.506 | 2.2 | 1.113 | | 0.097 | 1.210 | ⊙1500 | 880.00 | 0.5 | 0.78 | 1.370 | | 29.60 | |
| | | | | | | | | | | | | | | | | | | | | | | 29.16 | |
| (36) | 270.17 | 1374.05 | | | 270.17 | 1374.05 | 270,690 | 0.630 | | 0.630 | 2.2 | 1.386 | | 0.121 | 1.507 | ⊙1650 | 1080.00 | 0.4 | 0.74 | 1.580 | | 29.01 | |
| | | | | | | | | | | | | | | | | | | | | | | 28.58 | |

| Name of Zone | Area (ha) | | | Population Density | Population | Unit Flow | | |
|---|---|---|---|---|---|---|---|---|
| | Residential | Commercial | Total | | | Per Capita | Commercial | Infiltration |
| ZONE 10 | 5,355 | 145 | 5,500 | 197 persons/ha | 1,085,000 persons | 201 l/c/d | 116 $m^3$/ha/d | 7.6 $m^3$/ha/d |

| No. of Sewers | Area by Land Use | | | | Area | | Total Population | Domestic Wastewater Flow | | | | | Other Flow | | Total Design Flow | Designed Sewer | | | | | | | Remarks |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Residential Area | | Commercial Area | | | | | Residential (Ave.) | Commercial (Ave.) | Total | Peaking Factor | Peak Flow | Industrial | Infiltration | | Diameter | Length | Slope | Velocity (Full) | Capacity (Full) | Ground Surface Elevation | Sewer Invert Elevation | |
| | Increment | Total | Increment | Total | Increment | Total | | | | | | | | | | | | | | | | | |
| | ha | ha | ha | ha | ha | ha | persons | $m^3$/s | $m^3$/s | $m^3$/s | | $m^3$/s | $m^3$/s | $m^3$/s | $m^3$/s | mm | m | ‰ | m/s | $m^3$/s | m | m | |
| (37) | 122.26 | 1496.31 | | | 122.26 | 1496.31 | 294,770 | 0.686 | | 0.686 | 2.1 | 1.441 | | 0.132 | 1.573 | ⊙1650 | 480.00 | 0.4 | 0.74 | 1.580 | 37.00 | 28.58 | |
| | | | | | | | | | | | | | | | | | | | | | | 28.39 | |
| (38) | 314.54 | 5355.00 | | 145.00 | 314.54 | 5500.00 | 1083,500 | 2.521 | 0.195 | 2.716 | 1.8 | 4.889 | | 0.484 | 5.373 | ⊙2700 | 1100.00 | 0.4 | 1.03 | 5.874 | | 26.76 | |
| | | | | | | | | | | | | | | | | | | | | | | 26.32 | |
| | to Tratment Facilities | | | | | | | | | | | | | | | | | | | | | | |