Project: Design of Waste water collection network

City: Rafah

Region: In Tal Al-Sultan "South of Rafah"

Design Period: 2011–2040

Type of collection system: Separate system (Sanitary system)

Way of transmission: By gravity

Use the following data in your design:

Area of Tal-Sultan: 1,190,476 m²

Population in 2006: 25,000 capita

Population Growth Rate = 4%

Q (supply) = 150 L/C/d

Manning Coefficient (n) = 0.013

Min. Slope = 0.3%

Max. Slope = 3%

Check \( V_f \):

0.6 m/s \( \leq V_f \leq 3 \) m/s