

DESIGN OF WATER RETICULATION SYSTEM FOR A HOUSING DEVELOPMENT

Prepared by: Bey Yee Kang

ABSTRACT

This project is about the design the water supply system that is to be source for a housing development. A water supply system is the distribution of water in a network form. In this project, the water supply system used the gravity system which does not require any pump in the system and all the designs are made according to the guidelines set by the local water board. For the calculation part, Hardy-Cross Analysis and Hazen-William Formula are used. These 2 formulas are used in determining the flow rate and velocity of water in the pipeline. The expected outcomes for this project are the pipe-size, pipe-types, gradient of pipe and also the pressure head required in the water supply system.