ABSTRACTION

Condition of drainage system Kalipecabean’s village district of Candi sub-province Sidoarjo in general not fully function well as a means to channel water dischargers. It can be seen in the presence of puddles in some areas during the rain, but it also influences the tides which can also create a pool in some areas around the downstream channel.

To overcome these problems it is necessary to conduct hydrological analysis using several methods of analyzing rain began plans to use the gumbel method, analyzing the intensity of rainfall using the formulation and analysis Dr. Mononobe flood
discharge using the Rational method. Hydraulics analysis using Manning's formula and back water analysis with direct stage.

Results of analysis revealed a number of channels needed to be normalized. Normalization is done by plotting the channel slope and widen the channel bottom. Planning the addition of high embankment on the downstream channel to overcome back water.

*Key word : drainage, sidoarjo, water discharger, back water*