

**REDESIGN OF SECONDARY EXHAUST DUCT FOR  
OVERCOMING FLOODING WATER ON FARMING ROADS IN  
SIDOWAREK VILLAGE, NGORO DISTRICT, JOMBANG DISTRICT  
AND COST BUDGET PLAN (RAB)**

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**ABSTRACT**

Flooding is a natural disaster phenomenon that is related to the amount of damage to life and materials. The small capacity of the channel and the large amount of sediment in the drainage channel causes flooding. Based on data, flooding occurred in several drainage channels on Jalan Sidowarek Village, Ngoro District, Jombang Regency.

The evaluation carried out was in the form of an analysis of the discharge of each waste channel throughout the study area. In this research, rain plays an important role in the evaluation and planning of drainage channels. The required data is rainfall data, land use and topographic data. Redesign is an alternative form of development carried out to overcome waterlogging.

The analysis was carried out to determine the amount of flood discharge as a planned discharge, to find out the condition of the existing drainage system in areas that have the potential to experience waterlogging. The results of the analysis produce benefits as a form of scientific study that discusses drainage channels on rural roads, and can be used as a budget value consideration. costs and can be used as reference material for further sewerage plans related to this problem. To create buildings that are economical in terms of financing, so that

local residents are always aware of protecting the environment and minimizing the occurrence of standing water.

Keywords: Channels, Sewer Channel Planning, RAB.

