COMPARATIVE ANALYSIS OF DEBIT FLOOD DESIGN USING RATIONAL METHOD, SYNTHESIS HYDROGRAPH NAKAYASU GAMA-I AND COMPLEX IN SOUTH JAKARTA PU FRIDAY MARKET.

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ABSTRACT:
Increasing economic growth and development of infrastructure facilities and city infrastructure very rapidly, particularly in Jakarta to be able to change the existing land use. Areas that have undergone land use changes and lack mengakibtkan catchment areas in this regard is the Public Works Complex Market Friday, Kelurahan Pondok Pinang, South Jakarta. Originally the area was dry land that later turned into a light industrial area comprising housing, shops, small markets, sports facilities and other public facilities. This area is experiencing high floodwaters with a pool of ± 50 cm for ± 6 hours if the rainy season. To solve the flood problem is required calculations and analysis of the design flood discharge. The method used is the Rational Method, Synthetic Hydrograph Gama-I and Nakayasu. In calculating the design flood discharge by the methods of distribution are necessary to test intended to determine whether the design rainfall can be accepted or not in the flood discharge to compute. From the calculation of the design flood discharge at the Public Works Complex regional areas of South Jakarta Friday Ps which has an area of 257.53 hectares or 2.5753 km then the method of design flood discharge that may represent a reference to flood control in order to reduce the impact of floods that occurred in the Public Works Complex ps this Friday is to use the Rational Method design flood discharge..