ANALYSIS OF TOL WARU-JUANDA DRAINAGE SYSTEM DUE TO DEVELOPMENT OF SURABAYA CARNIVAL & NIGHT MARKET

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Abstract

Development plan of Surabaya Carnival & Night Market within an area of 76824.35 m², is one of the quick of economic growth in the city of Surabaya. This development will result in increased water runoff around the area. So that the necessary planning an environmentally friendly drainage, with concept holds water runoff and arrange the disposal. So, from the operational of storage ponds to implementing regulation No.26 years of 2008 about The Zero of Delta Q.

The method is carried out by plotting the subsurface drainage are connected to the channels in the region. For drainage channels in the area that doubles as a temporary bin and connected directly into the storage ponds. So that the volume of water runoff can be accommodated in the channel and storage ponds.

Rain in the area is planned to be piped drain and the channel leading to the storage ponds. Ponds receives runoff volume from 2 primary channel, with the value of each discharge is 0,353 m³/sec and 0,174 m³/sec. While the allowable effluent discharge 0,227m³/sec, so do the operation of pumps and sluice gates to regulate the volume of effluent out into the exhaust duct.

Keywords: Surabaya Carnival Night Market, Subsurface Drainage, Drainage Systems, Storage Ponds, Surabaya.
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