CONSTRUCTION METHOD
OF BOX CULVERT INSTALLATION
AT GUNUNGSARI DRAINAGE P.71+00 – P.77+50
(AVOOR DARMO SATELIT) OF SURABAYA CITY

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Abstract
The area of Banyuurip easily floods when rain comes with high intensity, therefore, it results traffic jams around the area. One of spill ways used to reduce capacity of flood debit is Gunungsari drainage on Banyuurip street Surabaya. However, the system of spill way drainage cannot work optimally, the capacity to cover water drainage is not so big that there are some pools of water which affect activities of local people. Besides, the needs of spaces for traffic ways are very necessary for any road users, especially drivers and motorists. In fact, the access of traffic ways on that way is very narrow and insufficient for a two-way access.

To improve the capacity of drainage and provide spaces for traffic need materials, box culverts designed to hold vehicle loads, then it is asphalted especially on the surface of box culverts and and provides frontage drainage along box culverts so that Gunungsari box culvert drainage can work optimally.

Installing box culverts is conducted by using Implementing, Analising, and Network Planning Method. While steps on doing the project is preview jobs, ground jobs, box
culvert jobs, road jobs, median jobs, frontage drainage jobs, and other related infrastructure jobs.

The purpose of installing box culverts on the project of building drainage system at Gunungsari drainage Surabaya is to improve the quality of drainage system toward the intensity of water debit and provide spaces for two-way access of traffic on Banyuurip Street Surabaya.

**Key words : Flood, Traffic, Box Culverts**