ABSTRACT

Arief Rahman Hakim roads Surabaya have rapid growth, due to changes in land use from agricultural land into non-agricultural land. The problem, how the land use changes, especially around the apartment in Jalan Arief Rahman Hakim influence on Jalan Surabaya and Arief Rahman Hakim Surabaya. The study aims to determine the effect on the performance of the apartment Arief Rahman Hakim Surabaya.

Measurement of volume rise apartments to Arief Rahman Hakim Road corridor as the performance measurements, using quantitative analysis. Furthermore, measurement of the influence of an apartment in Jalan Arief Rahman Hakim corridor Surabaya on the performance of the road using descriptive-quantitative analysis.

The results of the analysis obtained the degree of saturation of 1.01 after apartments in operation, the degree of saturation is increased from the value of the degree of saturation of 0.63 before the apartment operation. The average speed of vehicles passing through Jalan Surabaya Arief Rahman Hakim support the conditions of 13.35 km/h. Then the volume rise apartments on the performance of Jalan Arief Rahman Hakim that Cosmopolis apartment at 145 pcu/hour, apartments Kertajaya peak of 400 pcu/hour and apartments Sukolilo Dian Regency at 155 pcu/hour. Furthermore, the influence of apartments on Jalan Arief Rahman Hakim capacity is influential Cosmopolis apartment by 6%, while the apartments Kertajaya peak effect by 17% and apartments Sukolilo Dian Regency effect of 7%. Volume rise apartments due to the significant influence to the performance Arief Rahman Hakim.

Keywords - apartments, street performance