TRAFFIC MANAGEMENT OF OPERATIONAL APARTMENT MARVELL CITY SURABAYA

Name : Dicky Fadly Hidayat
NRP : 3107100087
Major : Teknik Sipil FTSP-ITS
Supervisor : Cahya Buana, ST., MT.

Abstract
Apartment construction is one alternative to meet the housing needs of the growing, while land available remains. Apartment has now become a choice of modern society in the big cities. A typical modern society that expects practicality and Inefficiency time accompanied by a culture of fast-paced big city can be accommodated by the presence of vertical housing. As development Marvell City apartments that are on the road Ngagel Surabaya. The apartments are located on the main road. With a building area of 73,780 m². Due to the construction of Marvell City apartments is of course resulted in road transport stream Ngagel will increase, and also the current road traffic conditions kepadatan Ngagel high enough, then the solution will be discussed in more detail in the Final by analyzing the condition of the road segment performance Ngagel and some deviation around the construction site Marvell City Apartments Ngagel it, so as to provide alternative solutions to transportation problems that will arise.

If DS> 1 then there is no need traffic management. At the Bung Tomo intersection of 4th Street - Street Ngagel, morning peak should change green time in phase 1 and 2. Phase 1 green time to 67 seconds and the IG to 4 seconds. and phase 2 green time to 41 and IG to 4 seconds. At the peak afternoon time Green Phase 1 to 78 and IG to 4 seconds and phase 2 to 40 seconds and the IG to 4 seconds. At 4 Jalan Simpang Bung Tomo - Road Ngagel also need to increase the width of the road on the way Ngagel west side of 1.5 meters. At the intersection of 3rd Street Bung Tomo -
Dharmo Kali Road - Road Dinoyo morning peak should change green time in phase 1 and 2. Phase 1 green time to 67 seconds and the IG to 4 seconds. and phase 2 green time to 41 and IG to 4 seconds. At the peak afternoon time Green Phase 1 to 78 and IG to 3 seconds and phase 2 to 42 seconds and the IG to 3 seconds. At the intersection of 3rd Street Bung Tomo - Dharmo Kali Road - Road Dinoyo need to change the width of the road at Bung tomo Ruas be perlajur 5 and 3 yards. And penggilangan LTOR on Dinoyo road, following the phase 1. At the intersection of 3rd Street Dharmo Kali - Way Bengawan Need extra time green time in phase 1 mencadi afternoon peak time of 40 seconds. And do Widening Road Dharmo time by 6 meters. 3 meters to the west approach, and 3 meters to the east approach.

Keywords: traffic management, roads, signed intersection, traction analysis.