THE ANALYSIS OF MENUR RONDABOUT CAPACITY WITH THE CONSTRUCTION IMPACT OF GUNA WANGSA APARTMENTS SURABAYA

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Abstract

The most consider sector in Indonesia is the economics, marked, by the increasing number of development like a building transportation. The issues will be discuss is about the analysis of Menur roundabout capacity with the construction impact of Guna Wangsa apartments Surabaya.

The method to evaluate according by Highway Capacity Manual Project (HCM). This issue is processing from the survey data about vehicle volume and then projected the volume growth untill 2017. The additional data from Guna Wangsa apartment got from comparins with the Beverly Park apartment add to the vehicle data volume which is already projected in 2017.

From the evaluation result, it can be known if the existing roundabout geometric condition can’t be mend the vehicle volume in 2017. So, it’s need the changes of geometric in order to solve this problems. Plan of geometric changes are to extend the weaving between Menur Pumpungan street to Manyar street along 250m. To extend the weaving between Menur street to Menur Pumpungan street along 220m.
Closing the channel on Menur Pumpungan street with box culvert along 100m and 5m width for open new road.

Keywords: Guna Wangsa apartment; capacity; additional data; weaving; HCM