

UNIVERSITAS INTERNASIONAL BATAM

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PLANNING EVALUATION OF RIGID PAVEMENT WITH BINA MARGA METHOD 2003 (CASE STUDY IMPROVEMENT OF JALAN SIMPANG PATUNG KUDA – SIMPANG BENGKONG SEKEN)

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ABSTRACT

Jalan Simpang Patung Kuda - Bengkong Seken intersection is a collector road section in Batam City, with the existing condition of the current road in the form of a single-lane road traversed by vehicles in the opposite direction undivided. by solid activity. The purpose of this study is to evaluate rigid pavement planning and analyze the causes of congestion Jalan Simpang Patung Kuda - Bengkong Seken intersection.

The method used in this research is a quantitative method in which the researcher analyzes, calculates and evaluates rigid pavements based on the Pd T-14-2003 method of planning concrete pavement and the capacity of the road based on the 1997 Indonesian Road Capacity Manual.

The results showed that there needs to be an increase in capacity at the Jalan Simpang Patung Kuda - Bengkong Seken intersection. Based on these results it can be concluded that the road segment has a degree of saturation of 1.94 so it is necessary to increase the capacity of the road using the type of rigid pavement. Rigid pavement structures are planned using thickness with 200 mm thick pavement, weaving reinforcement used are Ø8-200 mm, dowel reinforcement Ø33-300 mm length 450 mm, and tie bar reinforces Ø 16 mm - 750 mm at length 700 mm.

Keywords: *Rigid Pavement, CBR, Concrete*