

**RIGID PAVEMENT THICKNESS DESIGN WITH
MANAGEMENT METHOD OF PAVEMENT REVISION
SEPTEMBER 2017
(Case Study: Jalan Jendral Sudirman, Sri Tanjung Village,
Rupat)**

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ABSTRACT

Roads are a very important of transportation access. Jalan Jendral Sudirman Sri Tanjung Village, is one of the roads in Rupert sub-district that has a pavement problem, one of which is due to the long stretches of base B that have been damaged and the road is a highway used as access and transportation access that has important role for the smooth mobilization of residents and goods. As a result of increasing community activities, it is very important to increase the level of efficiency, safety, and comfort in driving in order to support the implementation of these activities. Seeing a very strong link between supporting infrastructure activities and facilities, on Jalan Jendral Sudirman, it is necessary to redesign the road with rigid pavement. In this research using September 2017 Freight Design Manual Method Number 02/M/BM/2017 and engineering estimate using 2016 Price Analysis of Units Work.

From this analysis is local road classification, LHR standard by local, age planning 40 years, CBR existing field are 2,32% so the result are base subgrade of CBR 15%, 300 mm class B foundation layer, 100 mm lean concrete foundation layer and 180 mm rigid pavement thickness with quality of concrete is K-300 kg/cm² using 16 mm diameters of tie bar reinforcement, 700 mm length, and 750 mm space between tie bar with engineering estimate is Rp. 12.151.295.000,-.

Keywords: 2017 Freight Design Manual, engineering estimate, rigid pavement thickness