

ABSTRACT

STUDY ON DESIGN REVIEW OF THE BRIDGE AT VILLAGE OF MARGO MULYO – LEMATANG, JATI AGUNG DISTRICT , LAMPUNG SELATAN

By

Ketut Swandana

This design is done to determine the level of efficiency the most economical to alignment and geometry of bridge have been built. As long as gain alternative type of structure on bridge which should used in Way Panas.

Calculations in this design cover the building upon and under construction the bridge. With calculations result of dead load and live load, followed by look for to moment force and normal force. Until found of dimension and reinforcement needed for each building. And the next calculations of estimated engineering use RAB.

Based on the result of design it is concluded geometry changes of bridge from the span 12 to 16 meter provide curve geometry is better then position the existing. Bridge reinforcement analysis with ultimate analysis give efficiency reinforcement to 806,69 kg be compared with standard BM-100 with flexible analysis. On implementation with BM-100 result the reinforcement of 3876,3 kg. the cost of implementation with unit price of materials (RAB) is Rp.975.000.000,- under own estimate.

Key word: RAB, Geometry, BM-100, Ultimate, existing