DESIGN STRUCTURE OF NGRAME II BRIDGE
KABUPATEN MOJOKERTO WITH STEEL BOX

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Abstract

In this final duty comprise the calculation analysis from alternative of planning of arch bridge construct by design dance the vehicle of below. This planning is started with the clarification of concerning background of election of bridge type, formulation of planning target till solution scope, and followed of planning base where analysis relied on regulation BMS 1992 RSNI 2005 and AISC – LRFD. From data of early existing, direct bridge is designed by taking to unfold 230 m and wide of vehicle column are 8 m. After it is conducted by preliminary design with determining bridge dimension use the steel substance. Early stage of planning is calculation dance the vehicle and pavement. Dance of the vehicle is planned as composite beam, while for the ossifying of used a asphalt covering thickly 5 cm. And then conducted by a athward and long beam planning, at one blow calculation of shear connector. Entering especial taker construction phase, done by of laboring burden calculation, then analysed by using program SAP 2000. After got reactions conducted calculation control the tension and extension calculation. At the same time conducted a especial taker construction calculation and also conducted calculation of construction sekunder covering wind tying for, and wind tying of under. Later to enter the phase of is end of upper structure planning, conducted by calculation of placement dimension.