DESIGN MAIN SPAN SURAMADU BRIDGE WITH DOUBLE DECK FOR HIGHWAY AND RAILWAY

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ABSTRACT

From the railway network development plans in the region GERBANGKERTOSUSILA, there are plans to build a rail network that connects Surabaya and Madura. With an increasingly traffic activity Surabaya-Madura in the future, bridge with a larger capacity is also much needed. Even as the development of technology has been widely used bridge with two floors of vehicles or better known as the double deck bridge. The combination of this vehicle floor may consist of ground vehicles for the highway and the vehicle floor to rail. Departing from the idea in this thesis will discuss "DESIGN MAIN SPAN SURAMADU BRIDGE WITH DOUBLE DECK FOR HIGHWAY AND RAILWAY".

With program MIDAS Civil 2006 to analyze the behavior of a three-dimensional structure. The imposition reference of RSNI T-02-2005 and Standart Teknis Kereta Api Indonesia Untuk Jembatan Baja. Besides the dynamic behavior of the wind are also controllable that includes the vortex-shedding (which is directly related to the psychological effects) and flutter.

Key word : bridge, Suramadu, double deck