

***ANALYSIS OF THE CHANGING SHAPE OF THE COLUMN OF  
THE RECTANGLE TO THE SHAPE OF THE RECTANGLE ON  
DDT (DOUBLE-DOUBLE TRACK) STATION MANGGARAI,  
SOUTH JAKARTA***

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***ABSTRACT***

Double-Double Track railway lines is number two or more which aims to separate the main line RAILWAY to long-distance and Commuter TRAIN lines thereby eliminating delays in Commuter TRAIN and also simultaneously increase capacity passenger now the 850 thousand passengers into 1.2 million passengers per day.

Redesain structure of DDT began with the necessary technical data collection such as dimension columns, beams, quality material and loads acting on the structure of DDT. In the early stages of planning done modeling design of rectangular columns and continued analysis of the load acting on the structure Column K2. Then from the results of analysis carried out calculations of the structure column K2 with dimensions different from the design of the original plan, the work load analysis calculation used computer applications. The results obtained the structure column that has the dimension of the cross section of penulangan influence on the structure of the columns.

The final results are obtained in the form of a planning dimension column 1280m x 1280m, **68D32** main reinforcement, forces acting on the structure column. Square column and more effective compared to rectangular column, seen from the reduction against the vast room.

Keywords: Double – Double Track, Columns, Column Dimensions