

GEOMETRIC DESIGN OF A HIGHWAY IN ACCORDANCE WITH JKR ARAHAN TEKNIK

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ABSTRACT

This project is titled 'Geometric Design of a Highway In Accordance With JKR Arahan Teknik'. Relevant JKR Arahan Teknik manuals will be used to assist throughout the geometric design of a highway.

The construction of this highway is to help diversify the increase in number of vehicles which travels along the existing road.

A study of the topographic survey of the proposed location is performed before making decision for the selection for the best suited alignment based on the existing soil conditions of the proposed location to further into the geometric design work, which is the main purpose here.

Then the design of vertical and horizontal alignments and earthwork of the highway comes in. geometric design criteria for this highway will be the key to carry out the whole design work. The speed design is one of the few important aspects in this geometric design.

Next will be the design of pavement, where the thickness design of layers for the highway pavement will be designed accordingly.

Besides that, basic design work of highway drainage and intersections will also be included where they are concerned. Suitable type and size of drainage for this design will be decided, whereby intersections will be designed based on the alignment and existing roads.