

PERENCANAAN JALAN RAYA SYEKH ABDUL MUHYI – SETIAWARGI, TAMANSARI KOTA TASIKMALAYA

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ABSTRAK

Jalan merupakan bagian penting dari prasarana penghubung antara satu tempat ketempat lainnya, dimana jalan dapat meningkatkan kegiatan ekonomi dan pendidikan, serta pengembangan masyarakat di suatu wilayah. Seiring perkembangan lalu lintas yang semakin meningkat maka dibuat perencanaan jalan baru Syekh Abdul Muhyi – Setiawargi termasuk kedalam kelas jalan kolektor yang mempunyai lebar jalan 7 m dan bahu jalan 2 x 1,5 m dan merupakan jalan penghubung dari Tasikmalaya Selatan menuju Setiawargi diharapkan dengan adanya jalan raya Syekh Abdul Muhyi – Setiawargi dapat meningkatkan sektor ekonomi di wilayah tersebut. Analisa perencanaan jalan yang menyangkut alinyemen horizontal dan alinyemen vertikal, kemudian perencanaan tebal perkerasan yang didalamnya menyangkut analisis kepadatan lalu lintas, menentukan nilai CBR, menentukan beban standar, menentukan jenis dan tebal lapisan perkerasan, dan yang terakhir menghitung kapasitas jalan. Sedangkan untuk perencanaan drainase yang pertama menghitung curah hujan wilayah, analisis distribusi frekuensi, intensitas curah hujan, menghitung debit banjir rencana, dan yang terakhir menentukan dimensi saluran drainase. Alinyemen horizontal memiliki rencana awal trase sepanjang 6004,0316 m menjadi 6272,7134 m setelah selesai perhitungan, dengan 4 lengkung horizontal S-C-S dan 1 lengkung horizontal S-S. Alinyemen vertikal terdapat 16 lengkung vertikal cekung dan 10 lengkung vertikal cembung dan volume galian sebesar 77816,639 m³ dan volume timbunan sebesar 61675,662 m³. Perencanaan dimensi saluran drainase menggunakan bentuk persegi dengan bahan pasangan beton dan debit saluran = 1,625 m³/det. Rencana anggaran biaya (RAB) direncanakan sebesar Rp. 29.668.577.000,00 dengan waktu pengerjaan selama 24 minggu.

Kata Kunci : Alinyemen, Curah Hujan, Drainase, Perkerasan

**PLANNING OF SYEKH ABDUL MUHYI – SETIAWARGI STREET, TAMANSARI
TASIMALAYA CITY**

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ABSTRACT

Roads are an important part of connecting infrastructure between one place and another, where roads can increase economic and educational activities, Roads are an important part of connecting infrastructure between one place and another, where roads can increase economic and educational activities and community development in an area. As the traffic flow progressively increased, a new road planning was made Sheikh Abdul Muhyi – Setiawargi was included in the collector road class which has a road width of 7 m and a 2 x 1.5 m shoulder and cleared the connecting road from South Tasikmalaya to Setiawargi It is hoped that the presence of the Sheikh Abdul Muhyi - Setiawargi highway will improve the economic sector in the region. Analysis of road planning involving horizontal alignment and vertical alignment, then planning of pavement thickness which includes traffic analysis, determining CBR value, determining the standard load, determining the type and thickness of the pavement layer, and finally calculating the road capacity. While for drainage planning, the first is to calculate regional rainfall, analysis of frequency distribution, rainfall intensity, calculate flood discharge plans, and finally to determine drainage channel dimensions. Horizontal alignment has an initial plan along the 6004.0316 m path to 6272.7134 m after completion of calculation, with 4 horizontal curves S-C-S and 1 horizontal curve S-S curve. The vertical alignment has 6 concave vertical arches and 2 convex vertical arches with excavations of 77816,639 m³ and heaps of 61675,662 m³. Planning the dimensions of the drainage channel using a square shape with the concrete material and channel discharge = 1,625 m³/sec. The budget plan (RAB) planned Rp. 29.668.577.000,00 with a processing time within 24 weeks.

Keyword : *Alignment, Drainage, Pavement, Rainfall*