

Analisa kinerja simpang Jl. Raya Bogor-Jl. Juanda dan simpang Jl. Margonda Raya-Jl. Juanda akibat pembukaan pintu tol Cijago seksi IIA = Performance analysis of Raya Bogor-Juanda intersection and Margonda Raya-Juanda intersection in present time and post operation of Cijago Toll road section IIA

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Abstrak

Skripsi ini membahas kinerja simpang Margonda ndash; Juanda dan simpang Raya Bogor - Juanda akibat pembukaan Tol Cijago Seksi IIA. Untuk mengetahui kinerja simpang, dilakukan pemodelan matriks asal tujuan menggunakan model gravitasi. Bangkitan dan tarikan didapat dari traffic counting, dengan fungsi hambatan eksponensial negatif dan ? sebesar 0,211249. MAT dibebankan dengan bantuan perangkat lunak Aimsun pada jaringan jalan dengan tol sebagai jaringan jalan baru.

Hasil yang didapat dibandingkan dengan hasil pembebanan ke jaringan jalan eksisting. Dari hasil yang diperoleh, antrian rata-rata simpang Margonda - Juanda meningkat 6,28 dan tundaan meningkat sebesar 3,4 sementara simpang Raya Bogor ndash; Juanda antrian rata-ratanya berkurang sebesar 9,78 dan tundaan berkurang sebesar 6,69.

This thesis discusses the performance of Margonda Juanda intersection and Bogor Juanda intersection due to the operation of Cijago Section IIA toll road. To measure the performance of intersection, it requires the modelling of origin destination matrix using gravity model. The production and attraction is obtained from traffic counting, with negative exponential detterance function and value of 0.211249. ODM is assigned on the road network with tolls as a new road network with the help of Aimsun software.

The results obtained are compared with the results to the existing road network assignment. The results shows that the average queue of Margonda Juanda intersection increased by 6.28 and the delay increased by 3.4 while the Bogor Juanda intersection average queue decreased by 9.78 and the delay decreased by 6.69.