

Improving of Traffic Capacity for Congested Square in Baghdad City

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Abstract

The increase in traffic volumes at intersections is one of the important problems that makes difficulties in the traffic operation management and movement then leads to traffic congestion in these facilities. Capacity and level of service are important considerations and control points for the analysis of intersections and evaluate the operation of the intersection. The present paper is dealing with the objectives of the evaluation of the capacity and the level of service at Al-Mat'haf square in Baghdad City, and development of alternative improvement strategies to overcome the traffic operation problems and to present a best proposal to enhance the performance from the capacity point of view. To achieve these objectives, the traffic volumes data collection and geometric layout for Al-Mat'haf square that required for the traffic and geometrical analysis were gathered manually, while SIDRA traffic program is used for the requirements of traffic analysis process. It has been concluded that, fly over connect the direction arrived from Al-Tajneed intersection towards Damascus square is the best proposal to improve the capacity and traffic operation ability of Al-Mat'haf square.