

ABSTRAK

Skripsi ini berjudul Evaluasi Sistem Sirkulasi dan Kapasitas Parkir pada Terminal Penumpang Tipe A Pinang Baris Berdasarkan SPM Terminal. Skripsi ini ditulias oleh DWI PRANGGA WARTA, NIM 2404020028, Program studi Teknik Sipil Fakultas Sains dan Teknologi, Universitas Quality Medan. Terminal Penumpang Tipe A Pinang Baris Kota Medan merupakan salah satu prasarana transportasi darat yang berfungsi sebagai simpul pergerakan angkutan umum antar kota dan dalam kota. Dalam operasionalnya, terminal ini masih menghadapi permasalahan pada sistem sirkulasi kendaraan dan pengelolaan parkir yang belum tertata dengan baik. Permasalahan yang terjadi meliputi adanya konflik lalu lintas berupa *diverging*, *merging*, *crossing*, dan *weaving* akibat pertemuan arus kendaraan masuk dan keluar, serta pemanfaatan ruang parkir yang tidak sesuai dengan peruntukannya. Kondisi tersebut menyebabkan penurunan tingkat keselamatan, kelancaran, dan kenyamanan pelayanan terminal.

Penelitian ini bertujuan untuk mengevaluasi sistem sirkulasi kendaraan dan kapasitas parkir pada Terminal Penumpang Tipe A Pinang Baris berdasarkan Standar Pelayanan Minimal (SPM) Terminal. Metode penelitian yang digunakan adalah metode deskriptif kuantitatif dengan pendekatan evaluasi. Pengumpulan data dilakukan melalui observasi lapangan, survei statis lalu lintas, survei patroli parkir serta inventarisasi fasilitas terminal. Analisis yang dilakukan meliputi analisis konflik sirkulasi kendaraan dan analisis karakteristik parkir yang mencakup volume parkir, durasi parkir, akumulasi parkir, *turn over*, serta kebutuhan Satuan Ruang Parkir (SRP).

Hasil penelitian menunjukkan bahwa sistem sirkulasi kendaraan dan kapasitas parkir pada Terminal Penumpang Tipe A Pinang Baris belum sepenuhnya memenuhi ketentuan SPM Terminal. Setelah dilakukan penataan sirkulasi dan parkir, jumlah titik konflik lalu lintas dapat dikurangi dan pemanfaatan ruang parkir menjadi lebih optimal. Dengan demikian, penataan sistem sirkulasi dan parkir diperlukan untuk meningkatkan kinerja pelayanan terminal secara keseluruhan.

Kata kunci : **Sirkulasi, Kapasitas parkir dan Standar pelayanan minimal terminal**

ABSTRACT

This thesis is entitled *Evaluation of the Circulation System and Parking Capacity at Pinang Baris Type A Passenger Terminal Based on Terminal Minimum Service Standards (SPM)*. This thesis was written by DWI PRANGGA WARTA, Student ID Number 2404020028, Civil Engineering Study Program, Faculty of Science and Technology, Universitas Quality Medan. The Pinang Baris Type A Passenger Terminal in Medan City is one of the land transportation infrastructures functioning as a movement hub for intercity and intracity public transportation. In its operation, this terminal still faces problems in the vehicle circulation system and parking management that are not yet well organized. The problems include traffic conflicts such as diverging, merging, crossing, and weaving caused by the interaction of incoming and outgoing vehicle flows, as well as the improper use of parking spaces. These conditions result in decreased levels of safety, smoothness, and comfort of terminal services.

This study aims to evaluate the vehicle circulation system and parking capacity at the Pinang Baris Type A Passenger Terminal based on the Terminal Minimum Service Standards (SPM). The research method used is a quantitative descriptive method with an evaluation approach. Data collection was carried out through field observations, static traffic surveys, parking patrol surveys, and an inventory of terminal facilities. The analyses conducted include vehicle circulation conflict analysis and parking characteristic analysis covering parking volume, parking duration, parking accumulation, parking turnover, and the requirement for Parking Space Units (SRP).

The results of the study indicate that the vehicle circulation system and parking capacity at the Pinang Baris Type A Passenger Terminal have not fully complied with the Terminal Minimum Service Standards (SPM). After the reorganization of circulation and parking arrangements, the number of traffic conflict points could be reduced and the utilization of parking spaces became more optimal. Therefore, improvements in the circulation and parking system are necessary to enhance the overall performance of terminal services.

Keywords: Circulation, Parking Capacity, and Terminal Minimum Service Standards.