Aasho Green Chapter 3 | 80c55ca2646f5d66551201c85f88b53b


Guide for the Geometric Design of Driveways

The Aashto Green Chapter 3 has identified the development of a simplified handbook of transportation studies as a high priority for the state of Iowa. The Center for Transportation Research and Education (CTRE) at Iowa State University was chosen to develop such a handbook. A well-executed, well-documented study is critical in the decision-making process for many transportation-related projects and in reporting to elected officials and members of the community. A more research is conducted in the area of transportation, study procedures in many cases have become more complex. It is often difficult for local jurisdictions with limited staff, training, experience, and time availability to perform these studies. The most commonly used publication for traffic studies is geared toward transportation professionals and professional engineers. That defining document, A Manual of Transportation Studies (Institute of Transportation Engineers, 2005), is over 500 pages and includes several dozen types of transportation studies. Not every transportation study described in the manual is easily (if ever) used by local jurisdictions. Further, these studies that are frequently used are at times very complex and possibly very costly to perform exactly as described. Local jurisdictions without the staff expertise to understand and apply the manual's various studies have a need for a simplified handbook of procedures to perform common traffic studies themselves or properly define a scope of work to hire a consultant to perform the studies. This handbook describes simplified procedures that are easy to apply and are written for all potential users (civil engineers and traffic engineers, public works managers, city managers and superintendents, and the general public).

U.S. Route 220 Improvements Project

A Guide for Achieving Flexibility in Highway Design

Left-turn Treatments at Intersections

Guide for the Geometric Design of Driveways

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Procedures to Determine Frontage Road Level of Service and Ramp Spacing

"This report, developed by the AITC in conjunction with TRB, a national transportation research group, documents the preservation needs of the nation's highways and the solutions that can be applied."—p. [iii].

Guide for the Planning, Design, and Operation of Pedestrian Facilities

Maintenance Management, 1990

CD-ROM contains full report, plus RSAP (Resurfacing Safety Resource Allocation Program) software and supplemental material.

Passing Sight Distance Criteria

Median Intersection Design for Rural High-speed Divided Highways

Traffic Engineering
Traffic Detector Design and Evaluation Guidelines

US Route 220 Transportation Improvements Project, Bald Eagle Village to I-80, Blair County, Centre County

Roadside Design Guide

This synthesis will be of interest to traffic engineers in both the public and private sectors, as well as to design engineers, safety and law enforcement officials, traffic signal technicians, and others concerned with the accommodation of nonmotorized transportation (pedestrians and bicycles) on the roadway. The synthesis describes the traffic conditions, signalization, signing, and geometric design issues associated with accommodating left-turning vehicles at intersections. This report of the Transportation Research Board discusses the basic concerns related to left-turn movements and the guidelines and requirements for handling these movements in the traffic stream. It also addresses the design criteria for left-turn treatments and the performance measures frequently applied to determine their effectiveness. The synthesis discusses the specific requirements for signing and pavement markings, and the various elements of traffic signal requirements, signal design and installation, phasing optimization, and lane-use controls. There is also a description of special applications such as U-turn control, pedestrian requirements, bicycles, and light rail transit interfaces.

Highway-rail Grade Crossing Surfaces

Managed Lane Ramp and Roadway Design Issues

Compendium of Technical Papers

Handbook of Simplified Practice for Traffic Studies

Transportation Research Record

Safety of U-turns at Unsignalized Median Openings

This unique book provides comprehensive and in-depth coverage of traffic engineering. It reflects all the skills necessary for success, including design, construction, operation, maintenance, and system optimization. Using a clear and logical structure, the book demonstrates both the theory and methodology behind all standard traffic engineering approaches. It also includes examples to illustrate the procedures as they are used in practice. The second edition of Traffic Engineering has been revised to include a new chapter on the statistical analysis of data. It also includes the latest practices and procedures; new material on underlying models; a new procedure for initial signal timing; as well as an expanded presentation of signalization and signal analysis. An essential reference book for practicing traffic engineers.

National Cooperative Highway Research Program Report

Accident Mitigation Guide for Congested Rural Two-lane Highways

Flexibility in Highway Design

At head of title: National Cooperative Highway Research Program.

Median Intersection Design for Rural High-speed Divided Highways

Report

Accident Mitigation Guide for Congested Rural Two-lane Highways

Median Intersection Design

Systemwide Impact of Safety and Traffic Operations Design Decisions for 3R Projects

Superelevation Distribution Methods and Transition Designs

Saving Historic Roads

Optimal Design of Work Zone Median Crossovers
Guidelines for Ramp and Interchange Spacing

TRB's National Cooperative Highway Research Program (NCHRP) Report 687: Guidelines for Ramp and Interchange Spacing explores guidelines for ramp and interchange spacing based on design, operations, safety, and signing considerations. The report is designed to help aid the decision-making process when an agency is considering new ramps or interchanges on existing facilities, modifying ramps and interchanges of existing facilities, or when planning and designing new highway and interchange facilities. The guidelines also offer standardized definitions measuring ramp and interchange spacing, which have varied in previous design guides. A final report documenting the full research effort related to the development of NCHRP Report 687 was published as NCHRP Web-Only Document 169—

Design Speed, Operating Speed, and Posted Speed Practices

Synthesis of Highway Practice

1992 TRB Distinguished Lecture