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**TRB Research**

**TRID** – The world’s largest and most comprehensive bibliographic source on all modes and disciplines of transportation

- Click here to view search results on TRB published research on Highway Geometric Design/Intersections within the past three years.

**Milestone Report**


**Specialty Report**

- Critical Issues in Transportation for 2024 and Beyond
- Critical Issues in Transportation 2019
- COVID-19 Addendum to Critical Issues in Transportation
- Racial Equity Addendum to Critical Issues in Transportation

**Recent Reports & Publications**

- National Cooperative Highway Research Program (NCHRP)
  - IDEA Report 225 - An Automated System for Large-Scale Intersection Marking Data Collection and Condition Assessment
  - IDEA Report 217 - A Real-Time Proactive Intersection Safety Monitoring and Visualization System Based on Radar Sensor Data
  - IDEA Report 190 - Self-de-icing LED Signals for Railroads and Highway Intersections
  - Report 1081 - Acceleration, Deceleration, and Stopping Sight Distance Criteria for Geometric Design of Highways and Streets
  - Report 1062 - Assessing the Impacts of Right-Turn Lanes on Rural and Suburban Highways
  - Report 1061 - Highway and Street Design Vehicles: An Update
  - Report 1050 - Wrong-Way Driving Solutions Handbook
  - Report 1043 - Guide for Roundabout
  - Report 1033 - Long-Term Roadside Crash Data Collection Program
  - Report 948 - Guide for Pedestrian and Bicyclist Safety at Alternative and Other Intersections and Interchanges
  - Synthesis 602 - Resilient Design with Distributed Rainfall-Runoff Modeling
  - Web-Only Document 387 - Safety Prediction Model for Freeway Facilities with High Occupancy Lanes
  - Web-Only Document 368 - Right-Turn-on-Red Operation at Signalized Intersections with Single and Dual Right-Turn Lanes: Evaluating Performance
  - Web-Only Document 357 - Wrong-Way Driving Solutions, Policy, and Guidelines

Updated 2/5/2024
Current & Upcoming Projects

- **Current Projects**
  - NCHRP 15-79 - Development of Guidance for Non-Standard Roadside Hardware Installations
  - NCHRP 17-101 - Applying the Safe System Approach to Transportation Planning, Design, and Operations in the United States
  - NCHRP 17-106 - Motorist Behavior and Safety Impacts on Bicyclists from Centerline and Shoulder Rumble Strips on High-Speed Two-Lane Highways
  - NCHRP 17-108 - Developing Crash Modification Factors for Alternative Intersections
  - NCHRP 20-102(24) - Infrastructure Modifications to Improve the Operational Conditions of Automated Vehicles
  - NCHRP 22-50 - Crashworthiness of Roadside Hardware on Curbed Roadways
  - NCHRP 22-56 - Development of Non-proprietary Prefabricated Solutions for Concrete Barrier Systems for Accelerated Bridge Construction
  - NCHRP Synthesis 20-05/Topic 54-13 - Truck Emergency Escape Ramp Design and Operation
  - TCRP J-11/Task 44 - Improving Access to Public Transportation Services and Facilities with Transit-Oriented Complete Streets

- **Upcoming Projects**
  - NCHRP 05-27 - Guide for Lighting at Innovative Intersections/Interchanges, including Roundabouts
  - NCHRP 07-28(02) - Assessing the Multimodal Safety Performance of Turn Lanes
  - NCHRP 07-33 - Evaluate the Benefits of Increasing Clear Zone at Higher Speed/Traffic Volume/Crash Locations
  - NCHRP 08-163 - Defining Appropriate Design and Accommodation Thresholds for Active Transportation in a Context-Driven Approach
  - NCHRP 08-176 - Balancing Freight and Goods Delivery Needs in Designing Complete Streets
  - NCHRP 15-82 - Relationship of Speed, Roadway Geometrics, and Crashes on High-Speed Rural Highways
  - NCHRP 17-116 - Practical Approaches to Quantifying Safe System Concepts
  - NCHRP 17-119 - Conflict-Based Crash Prediction Method for Intersections
  - NCHRP 17-126 - Crash Prediction Models for Alternative and Unconventional Intersections
  - NCHRP 17-129 - Assessing Safety Performance of Atypical Service Interchanges
  - NCHRP 17-131 - Updated Guidance on Reduced Left-Turn Conflict Intersections
  - NCHRP 20-06/Topic 27-05 - Addressing Liability Issues of Proactive Safety Improvements
  - NCHRP 20-44(51) - Developing Training Materials to Implement Context Classifications
  - NCHRP 20-44(52) - Implementing a Guide for Urban and Suburban Roadway Cross-Section Reallocation
  - NCHRP 20-130 - Incorporating Human Factors Guidelines into Transportation Projects, Programs, and Practices
  - NCHRP 22-61 - Crashworthiness of Roadside Hardware Impacted by Battery Electric Vehicles

Publications from the [National Academies Press](https://www.nap.edu) on Highway Geometric Design

- Transportation and Infrastructure » Design
- Transportation and Infrastructure » Highways

Committees & Panels

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**TRB Standing Committees** – Search by transportation mode and committee topic

- AKD10 - Performance Effects of Geometric Design
- AKD80 - Roundabouts and other Intersection Design and Control Strategies

**Panels** - Search for panels under committee here

- D0527 - Best Practices for Roundabout and Alternative Intersection/Interchange Lighting
- D1573 - Design Options to Reduce Turning Motor Vehicle Bicycle Conflicts at Intersections
- D17108 - Developing Crash Modification Factors for Alternative Intersections
Recent and Upcoming Events

Upcoming TRB Conferences/Events – Use left hand menu to filter events, search titles by keyword

**TRB’s 4th International Conference on Access Management**  
*June 24-26, 2024*  
*Boston, MA*

**TRB’s Symposium on Managed Lanes**  
*August 12-14, 2024*  
*Irvine, CA*

Past Events - In the Past Events tab under Types, choose what event you are interested in, search titles by keyword

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- Reference and research assistance
- Literature searches
- Articles for TRB Committee work

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- [Transportation Research Thesaurus (TRT)](https://trt.trb.org) – A tool to improve the indexing and retrieval of transportation information.
- [Research in Progress (RiP) Database](https://rip.trb.org) – Current or recently completed transportation research projects
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