



TRANSPORTATION RESEARCH BOARD

## TRB Snap Search: Construction

### TRB's involvement in research on Construction from 2017-2018

The [Transportation Research Board \(TRB\)](#) provides innovative, research-based solutions to improve how we move. TRB is part of the National Academies of Sciences, Engineering, and Medicine, an independent, non-profit institution that provides objective advice on scientific, engineering, and medical issues.

A resource to the nation and to the transportation community worldwide, TRB provides an extensive portfolio of services:

- Opportunities for information exchange on current transportation research and practice
- Management of cooperative research and other research programs
- Analyses of national transportation policy issues and guidance on federal and other research programs
- Publications and access to research information from around the world

### 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 Construction within the past year.

### Subject Webpage

- [Construction Research at TRB](#)

### Recent Reports & Publications

- [National Cooperative Freight Research Program \(NCFRP\)](#)
  - [Report 37](#) - Using Commodity Flow Survey Microdata and Other Establishment Data to Estimate the Generation of Freight, Freight Trips, and Service Trips: Guidebook
- [National Cooperative Highway Research Program \(NCHRP\)](#)
  - [IDEA 181](#) - Development of Small Specimen Geometry for Asphalt Mixture Performance Testing
  - [Ready Results](#) - Better Travel Time Reliability, Improved Capacity Analysis
  - [Ready Results](#) - Improving Cost Estimates for Preconstruction Services
  - [Ready Results](#) - Reaping the Benefits of Civil Integrated Management
  - [Ready Results](#) - Measuring Modulus for Better-Performing Pavements
  - [Ready Results](#) - Updating Fuel Factors for Today's Construction Projects
  - [Ready Results](#) - New Standards Improve Safety of Adhesive Anchor Systems
  - [Report 870](#) - Performance of Corrugated Pipe Manufactured with Recycled Content
  - [Report 863](#) - Material Properties of Cold In-Place Recycled and Full-Depth Reclamation Asphalt Concrete
  - [Report 856](#) - Specifying and Measuring Asphalt Pavement Density to Ensure Pavement Performance
  - [Report 850](#) - Applying Risk Analysis, Value Engineering, and Other Innovative Solutions for Project Delivery
  - [Research Topic Highlight](#) - Practice-Ready Solutions for Warm Mix Asphalt
  - [Synthesis 511](#) - Relationship Between Chemical Makeup of Binders and Engineering Performance
  - [Synthesis 504](#) - Strategic Program Delivery Methods
  - [Synthesis 502](#) - Practices for Establishing Contract Completion Dates for Highway Projects
  - [Synthesis 500](#) - Control of Concrete Cracking in Bridges
  - [Synthesis 499](#) - Alternate Design/Alternate Bid Process for Pavement-Type Selection
  - [Web-Only Document 236](#) - Incorporating Slab/Underlying Layer Interaction into the Concrete Pavement Analysis Procedures
- [Transportation Research Record: Journal of the Transportation Research Board](#)
  - [Volume 2642](#) - Performance Evaluation of Transverse High-Performance Concrete Closure Pour Connection for Use in Modular Bridge Construction
  - [Volume 2642](#) - Connections for Integral Jointless Bridges in Seismic Regions Suitable for Accelerated Bridge Construction
  - [Volume 2641](#) - Dynamic Backcalculation of Viscoelastic Asphalt Properties and Master Curve Construction
  - [Volume 2633](#) - Production, Construction, Properties, and Performance of a Test Road with High Reclaimed Asphalt Pavement Content

- [Volume 2630](#) - Construction
- [Volume 2628](#) - Life-Cycle Benefits of Recycled Material in Highway Construction
- [Volume 2603](#) - Development of a Life-Cycle Assessment Tool to Quantify the Environmental Impacts of Airport Pavement Construction

## Current & Upcoming Projects

- [Current Projects](#)
  - [ACRP 08-02](#) - Integrating Collaborative Partnering for Airport Projects
  - [ACRP 09-15](#) - Building Information Modeling (BIM) Beyond Design
  - [ACRP Synthesis 11-03/Topic S01-17](#) - Attracting Investment at General Aviation Airports Through Public-Private Partnerships
  - [NCHRP 03-111](#) - Effectiveness of Work Zone Transportation Management Plan (TMP) Strategies
  - [NCHRP 08-105](#) - Measuring the Effectiveness of Public Involvement in Transportation Planning and Project Delivery
  - [NCHRP 08-112](#) - A Guidebook for Implementing Alternative Technical Concepts into Project Delivery Methods
  - [NCHRP 09-62](#) - Rapid Tests and Specifications for Construction of Asphalt-Treated Cold Recycled Pavements
  - [NCHRP 10-91A](#) - Sustainable Highway Construction Practices
  - [NCHRP 10-100](#) - Procedures and Guidelines for Validating Contractor Test Data
  - [NCHRP 12-102](#) - Recommended AASHTO Guide Specification for ABC Design and Construction
  - [NCHRP 18-18](#) - Design and Construction of Deck Bulb Tee Girder Bridges with UHPC
  - [NCHRP 20-107](#) - Effective Construction Project Staffing Strategies for Transportation Agencies
  - [NCHRP 20-07/Task 386](#) - Update to AASHTO "Guide Specifications for Highway Construction"
  - [NCHRP 20-07/Task 388](#) - Guidelines for Design and Construction of Temporary Bridges
  - [NCHRP Synthesis 20-05/Topic 48-02](#) - Tack Coat Specifications, Materials, and Construction Practices
  - [NCHRP Synthesis 20-05/Topic 48-16](#) - Construction and Rehabilitation of Concrete Pavements under Traffic
  - [NCHRP Synthesis 20-05/Topic 49-02](#) - Emerging Technologies for Construction Delivery
  - [NCHRP Synthesis 20-05/Topic 49-03](#) - Bridge Demolition Practices
  - [NCHRP Synthesis 20-05/Topic 49-04](#) - Very Short Duration Work Zone Safety for Maintenance and other Activities
  - [TCRP J-05/Topic 16-04](#) - Technology Contracting for Transit Projects
- [Upcoming Projects](#)
  - [ACRP 11-01/Topic 10-02](#) - Legal Issues Relating to Large Scale Airport Construction Projects
  - [ACRP 11-02/Task 30](#) - Research Roadmap in the Area of Design and Construction of Airport Facilities and Infrastructure
  - [NCHRP 03-132](#) - Guidance for Safe and Effective Temporary Traffic Control for Mobile Operations on Two-Lane Two-Way Roadways
  - [NCHRP 08-114](#) - Systematic Approach for Estimating Construction Contract Time: A Guidebook
  - [NCHRP 10-101](#) - Improving Mid-Term, Intermediate, and Long-Range Cost Forecasting: Guidance for State Departments of Transportation
  - [NCHRP 20-06/Topic 23-04](#) - The Effectiveness of State False Claims Acts in Protecting State Transportation Funding
  - [NCHRP 20-50\(18\)](#) - LTPP Data Analysis: Significance of As-Constructed Asphalt Pavement Air Voids to Pavement Performance

## Reports from the [National Academies Press](#) on Construction

- [Improving Motor Carrier Safety Management](#)
- [Review of the Research Program of the U.S. DRIVE Partnership: Fifth Report](#)

## Committees & Panels

[Sign-up to be a committee "Friend"](#)

[Technical Activities Division Standing Committees](#) – Search by transportation mode and committee topic

- [AF000](#) – Design and Construction
- [AFB80](#) – Geospatial Data Acquisition Technologies
- [AFH00](#) – Construction
- [AFH10](#) – Construction Management
- [AFH15](#) – Project Delivery Methods
- [AFH20](#) – Quality Assurance Management
- [AFH30](#) – Emerging Design and Construction Technologies
- [AFH40](#) – Construction of Bridges and Structures
- [AFH50](#) – Concrete Pavement Construction and Rehabilitation
- [AFH60](#) – Asphalt Pavement Construction and Rehabilitation
- [AFH70](#) – Fabrication and Inspection of Metal Structures

- [AFH80](#) – Disadvantaged Business Enterprises
- [AFN40](#) - Concrete Materials and Placement Techniques
- [AFS10](#) - Transportation Earthworks
- [AFS30](#) - Foundations of Bridges and Other Structures
- [AFS80](#) - Stabilization of Geomaterials and Recycled Materials
- [AHB55](#) - Work Zone Traffic Control

**[Task Forces](#)** - Search for *task force* under committee here

#### CRP Panels

- [Project Panels Related to Construction](#)

#### Councils

- [A0040T](#) – Young Member Council

### Recent and Upcoming Events

[Conferences \(co-sponsored by TRB\)](#) - Left hand menu “upcoming conferences by topic”

#### [2018 Planning for Shifting Trade Workshop\\*](#)

*January 30-31, 2018*

**Tampa, Florida**

#### [Transport Research Arena 2018\\*](#)

*April 16-19, 2018*

**Vienna, Austria**

#### [4th GeoShanghai International Conference \(GeoShanghai 2018\)\\*](#)

*May 27-30, 2018*

**Shanghai, China**

#### [3rd International Conference on Transportation Infrastructure and Materials\\* \(ICTIM2018\)](#)

*June 1-4, 2018*

**Tianjin, China**

#### [GeoChina 2018 International Conference\\*](#)

*July 23-25, 2018*

**Hangzhou, Zhejiang, China**

#### [GeoMEast International Conference 2018: "Sustainable Civil Infrastructures: Structural Integrity"\\*](#)

*November 24-28, 2018*

**Cairo, Egypt**

#### [Sixth International Symposium on Nanotechnology in Construction \(NICOM6\)\\*](#)

*December 2-5, 2018*

**Hong-Kong, China**

[Webinars](#) – View upcoming webinars, suggest a webinar or add registration information

### TRB’s Transportation Research Information Services (TRIS)

TRIS includes the [TRB Library](#) and the [TRIS Databases](#) (listed below) which are available for free on TRB’s website.

The TRB Library provides information services to TRB staff, sponsors, TRB Committee members and panels and researchers. Access to the TRB Library is a benefit to TRB sponsors and TRB committee members.

In cooperation with your State DOT Library or Information Service, the TRB Library provides:

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

The TRB Library provides training on effective and efficient use of the following TRIS resources:

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

[trid.trb.org](http://trid.trb.org)

**Practice Ready Papers (PRP) Database** - Papers with information that is ready for immediate implementation or requires minimal additional research or implementation effort - [prp.trb.org](http://prp.trb.org)

**Publications Index (PubsIndex) Database** - The papers, articles and reports published by the Transportation Research Board, Highway Research Board, Strategic Highway Research Programs or the Marine Board - [pubsindex.trb.org](http://pubsindex.trb.org)

**Research in Progress (RiP) Database** - Current or recently completed transportation research projects - [rip.trb.org](http://rip.trb.org)

**Research Needs Statements (RNS)** - Research needs as identified by TRB Technical Activities standing committees - [rns.trb.org](http://rns.trb.org)

Contact the Library at [TRBLibrary@nas.edu](mailto:TRBLibrary@nas.edu) or 1 (202) 334-2989