

## IHRB FY 13 and 14 Completed Projects

TR-519	Developing Flood-Frequency Discharge Estimation Methods for Small Drainage Basins in Iowa
TR-608	Assessment of Iowa County Roadway Financing Needs, Phases 1-4
TR-612	Wind Loads on Dynamic Message Cabinets and Behavior of Supporting Trusses
TR-616	Timber Abutment Piling and Black Wall Rehabilitation and Repair
TR-623	Quality Control/Quality Assurance Testing for Joint Density and Segregation of Asphalt Mixtures
TR-624	Development of Quality Standards for Inclusion of High Recycled Asphalt Pavement Content in Asphalt Mixtures
TR-630	Evaluation and Guidance on Effective Traffic Calming for Small Communities
TR-633	Investigation into Shrinkage of High Performance Concrete Used for Iowa Bridge Decks and Overlays
TR-634	Pilot Construction for Granular shoulder Stabilization
TR-635	Warm Mix Asphalt Phase II: Evaluation of WMA Quality Assurance Testing Protocols
TR-636	Bridge Damage Detection: Integration of Structural Health Monitoring System Concepts and Components – A Statewide Collaboration
TR-638	Western Iowa Missouri River Flooding – Geo-Infrastructure Damage Assessment, Repair and Mitigation Strategies
TR-643	Evaluating Roadway Subsurface Drainage Practices
TR-619	Development of Self-Cleaning Box Culvert Design - Phase II
TR-622	Maintenance and Design of Steel Abutment Piles in Iowa Bridges
TR-632	Low Cost Rural Road Surface Alternatives (literature review)
TR-639	Development of Bio-Based Polymers for Use in Asphalt
TR-646	Development of Bridge Inspection, Load Rating & Maintenance Manuals
TR-617	Adaptive Field Detection Method for Bridge Scour Monitoring Using Motion Sending RFID.
TR-647	Method for Removing Concrete Decks from Bridge Girders
TR-614	Structural Characterization of UHPC Waffle Bridge Deck and Connections