ALDOT

Research & Development

Current Research Projects

931-955P Accelerated Pavement Testing Working Group

931-954P Improve Pavement Surface Distress and Transverse Profile Data Collection and Analysis, Phase III

931-943P Accelerated Performance Testing on the 2024 NCAT Pavement Test Track with MnROAD Research Partnership

931-934P Consortium for Asphalt Pavement Research and Implementation (CAPRI)

931-155R Leveraging AI systems to Support Traffic Incident Response and Performance Monitoring Learning from the North Region Traffic Management Center

931-154 Transition from Marshall IDT-Based Volumetric Design of Plant Mix Bituminous Base Mixtures

931-153R Proposal to Continue Monitoring Field Performance of BMD Validation Test Sections on SR-55 (Phase I: 2026 to 2028)

931-152 Improvement to Mix Design Procedure and Specifications to Account for the Impact of Recycled Materials on Performance, Phase I: Laboratory Study

931-150R Assessing Best Management for Establishing Pollinator Habitat Along Roadside Rows in Alabama

931-149 Evaluation of the Plastic-Sleeve Test Method to Control the Total Shrinkage of Bridge Deck Concrete in Alabama

931-148R Integrating Traditional Safety Data and Emerging Vehicle Data for Evaluation of Intersection Countermeasures on Alabama Highways

931-147 Evaluation of Alabama Limestone and Limerock Sources for Use as Pavement Aggregate Base: Phase II

931-146 Geotechnical Health Monitoring and Assessment of Landslides Phase 2 – Implementation of an Early Warning System

931-143R Develop a Lidar-based Tool to Automatically Measure Pedestrian Crossing Sight Distance

931-139 Local Technical Assistance Program (LTAP) FY2025 Work Plan, Alabama Technology Transfer Program

931-137R Engineering Solutions for Red-Light Running Safety at Urban High-Speed Intersections, Utilizing Existing Resources

931-136R Optimizing Concrete Truck Delivery Timing: Investigating Proper Transit and Placement Windows for Ready-Mix Concrete

931-135R Near-Miss Detection System for Alabama Service Assistance Patrol (ASAP)

931-134R Investigation of Structural Connection Details for Bridge Columns in Alabama Bridges

931-132R Measurement While Drilling for Geotechnical Characterization Phase 1 – Evaluation Technologies and Current Practice

931-131R Evaluation of Internally Cured Concrete for Bridge Decks in Alabama

931-130R Nano-Conditioning of Expansive Soils using Electrokinetic

931-126R Stabilization of Bridge Approach and Highway Embankments Using Piles Drilled Shaft Micropiles

931-124R Implementation of Splice Technology for Prestressed Driven Concrete Piles - Phase I

931-123R Evaluation of Regional Traffic Operations Program in Alabama

931-122R Development and Validation of a Refined Design Methodology for Bends in Cast-In-Place Concrete Box Culverts

931-115R Enhancing Safety on Rural Two-Lane Roads by Utilizing Connected Vehicle Hard Braking Information

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931-114R Welded-Wire Shear Reinforcement-Girder-to-Deck Connection Details
931-113R In-Situ Load Testing of the Decommissioned Mobile River Bayway Bridge Phase 1: Feasibility Study
931-112R Field Driving and Field Testing of UHPC Piles for Bridge Foundations (Phase II)
931-111R Freeze-Thaw Durability Requirements for New Concrete Structures in Northern Alabama
931-110R Develop Rectangular Rapid-Flashing Beacon (RRFB) Supplemental Strategies for Improving Pedestrian Safety
931-109R Evaluating the Use of Biocementation Techniques for Erosion Control
931-097 Development of Continuous Deck Slab Details for Alabama Bridges-Phase 1: Field, Laboratory, and Analytical Investigations
931-059 Vegetation Management Research Program for Alabama's Highway Rights-of-Way
930-984 Development of Conservation Plans for Gopher Tortoises in Alabama via Long-Term Demographics and Modeling
930-954 Vegetation Management of Alabama Highway Right of Ways
930-943 Maintenance of the Alabama Department of Transportation Traffic Signal Design Manual
930-935S Urgent Mitigation of Major Surge and Wave Force Damage in the I-10 Mobile Bay-Way Bridges Using an Energy-Dissipative Elastomeric Hybrid Composite (HMC)
930-927 Analysis of The Study and Mobility Benefits of Queue Warning Systems in Alabama Work Zones
930-926 Construction Locked-In Force Effects Due to Different Cross-Frame Detailing Methods, Phase I: Field Evaluation
930-922 Development of the ALDOT Traffic Simulation Manual
930-921 Seismic Connection Bridge Detail for Across-the-Board Soil Site Class
930-912 Self-Centering Connections for Traffic Sign Structure: Phase II, Large-Scale Subassembly Test
930-903 Stability of Horizontally Curved I-Girder Bridges During Early-Stage Construction
930-875 University of Alabama at Birmingham (UAB) - University Transportation Centers (UTCs): Research Projects - Round 2, (8 projects total)
930-867 Local Technical Assistance Program (LTAP) Center, Alabama Technology Transfer Program
930-843 University Transportation Centers (UTCs) - Regional: University of Alabama with University of Florida, (5 projects total)
930-842 University Transportation Centers (UTCs) - Tier I: University of Alabama with Georgia Institute of Technology, (7 projects total)
930-841R Monitoring the Coastal Processes in the Vicinity of Little Lagoon Pass
930-824R Evaluation of Diverging Diamond Interchange (DDI) for Alabama, Phase I
930-817R GeoGIS Transition to Alabama Department of Transportation (ALDOT)
930-816R GRS-IBS Implementation Assistance and Monitoring
930-813R Design of Overhead Sign Support Structures to Mitigate Wind-Indued Fatigue Loads

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930-812 Load and Resistance Factor Design (LRFD) for Deep Foundations with Reliability Analysis and Design Method Calibration
930-809R Contraflow Evacuation Planning for I-65 in Alabama
930-805 Evaluation of Asphalt Mixtures Containing Recycled Asphalt Shingles-Phase I
930-804 Evaluation of Non-Tracking Hot Applied Polymerized Tack Material for Use with Open-Graded Friction Course (OGFC)
930-801 Department Drilling and Traffic Control Services for the "Highway Research Center's Evaluation of Causes of Pavement Distress in US 331 in Montgomery County, AL"
930-794 Evaluation of Alabama Department of Transportation's Quality Assurance Testing Program and Pay Assessment Schedules for Asphalt Mixtures
930-786 Vegetation Management for Alabama Right-of-Ways
930-781 Local Technical Assistance Program (LTAP) Center, Alabama Technology Transfer Program
930-777 Mitigation of Cracking of Cast-In-Place Culverts in Alabama
930-773R Assessment of Long-Time Behavior for Bridge Girders Retrofitted with Fiber Reinforced Polymer (FRP) Using Accelerated-Time Concepts
930-772 Pilot Car Driver Certification Program
930-765 FY 2009, Technology Transfer Program for Local Transportation Agencies in Alabama
930-761 Development of a Ride Quality Smoothness Specification and Technology Evaluation Program at the NCAT Pavement Test Track
930-755 Evaluation of Driver Perceptions and Safety Impacts of Innovative Use of Internally Illuminated, Raised Pavement Markers
930-748 FRP Strengthening of Continuous RC Bridge-Letohatchee, Alabama
930-737 Rapid Replacement of Bridge Decks - Phase IV: Structural Performance of I-59 Pilot Deck Systems
930-710 Traffic Analysis and Simulation
930-707P LTAP 2007 Program
930-705 Development of Multimedia Resource and Short Courses for LRFD Design
930-688S Evaluation of High-Performance Drilled Shaft Concrete on the B.B. Comer Bridge
930-678 2006 Local Technical Assistance Program (LTAP) Center, Alabama Technology Transfer Program
930-677 Development of Retrofit Options for Bridges Vulnerable to Coastal Storms
930-668S Axial Load Testing of Drilled Shaft Foundations
930-667P Consortium of Accelerated Pavement Testing (CAPT) and Technical Exchange Partnership
930-642M Lead State for Reducing Signalized Intersection Crashes
930-613 Development of Cost-Effective VARTM Technology for Repair and Hardening - Design Method and Specification for ALDOT Contractor - Phase I