Report #	Report Title
RP 265	Effectiveness of High Early Strength Concrete Class 50AF with Polypropylene Fibers as a Cost-Effective Alternative for Field-Cast Connections of Precast Elements in Accelerated Bridge Construction
RP 262	Concrete Performance in Aggressive Salt and Deicing Environments
RP 260	Idaho Transportation Department 2016 Customer Communication Survey
RP 258	Weed-Suppressive Soil Bacteria to Reduce Cheatgrass and Improve Vegetation Diversity on ITD Rights-of-Way
RP 257	Evaluating Performance of Highway Safety Projects
RP 256	Fatigue Crack Detection Using Unmanned Aerial Systems in Under-Bridge Inspection
RP 255	Recommendations for Applying a Risk-based Quality Assurance Approach for Reinforcing Steel
RP 253	Portland Cement Concrete Material Characterization for Pavement ME Design Implementation in Idaho
RP 251	Educating Idaho Teenage Drivers of the Dangers of Distracted Driving
RP 250	Guide to Assist Idaho Local Highway Jurisdictions in Evaluating Route Requests for Trucks Up to 129,000-Pounds
RP 249	Improving Quality Control of Asphalt Pavement with RAP Using a Portable Infrared Spectroscopy Device
RP 248	State of Idaho Port of Entry Study
RP 247	The Reliability and Effectiveness of a Radar-Based Animal Detection System
RP 246	Seismic Performance of Columns with Grouted Couplers in Idaho Accelerated Bridge Construction Applications
RP 245	Idaho Transportation Department Division of Motor Vehicles 2015 Customer Satisfaction Survey
RP244	Safety Impacts of Using Wider Pavement Markings on Two-Lane Rural Highways in Idaho
RP 243	A Temperature-Based Monitoring System for Scour and Deposition at Bridge Piers
RP 242	Measures to Alleviate Congestion at Rural Intersections
RP 241	Economic Cost of Crashes in Idaho
RP 238	Mechanical Properties of Portland Cement Concrete With Recycled Asphalt Pavement as Partial Replacement for Coarse Aggregate
RP 237	Evaluation of Fiber-Reinforced Asphalt Pavements: Laboratory Study
RP 236	Evaluation of Vehicle Detection Systems for Traffic Signal Operations
RP 235	Calibration of the AASHTOWare Pavement ME for Flexible Pavements in Idaho
RP 234	Estimating Peak-Flow Frequency Statistics for Selected Gaged and Ungaged Sites in Naturally Flowing Streams and Rivers in Idaho
RP 233	Growing a Constructive Culture at ITD
RP 232	Highway User Expectations for ITD Winter Maintenance
RP 231	Impacts of Using Salt and Salt Brine for Roadway Deicing
RP 230	LED Luminaires for Roadway Sign Illumination
RP 229	Methodology for Prioritizing Appropriate Mitigation Actions to Reduce Wildlife-Vehicle Collisions on Idaho Highways
RP 228	Work Zone Positive Protection Guidelines for Idaho
RP 226	Assessing Feasibility of Mitigating Barn Owl-Vehicle Collisions in Southern Idaho
RP 225	Calibration and Development of Safety Performance Functions for Rural Highway Facilities in Idaho
RP 223	Evaluation of IdaShield Sign Safety Benefits at Highway-Rail Crossing in Idaho
RP 222	Improving Passing Lane Safety and Efficiency
RP 221	Economic Analysis Readiness Assessment
RP 220	Improving Emergency Response to Motor Vehicle Crashes: The Role of Multi-media Information
RP 219	Real Time Avalanche Detection for High Risk Areas
RP 218	Evaluation of the Impacts of Differential Speed Limits on Interstate Highways in Idaho
RP 217	Native Plants for Roadside Revegetation: Field Evaluations and Best Practices Identification

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RP 216	Improving Safety at Signalized Intersections during Inclement Weather Conditions - A Real-Time Weather-Responsive System
RP 214	Positive Community Norm Survey 2011: Methodology and Results
RP 213	Performance Evaluation of Asphalt Pavement Mixes in Idaho that Contain High Percentages of Recycled Asphalt Pavement
RP 212	Lithologic Characterization of Active ITD Aggregate Sources and Implications for Aggregate Quality
RP 211B	Idaho AASHTOWare Pavement ME Design User's Guide, Version 1.1
RP 211A	Road Map for Implementing The AASHTO Pavement ME Design Software for the Idaho Transportation Department
RP 210	Review of Non-Nuclear Density Gauges as Possible Replacements for ITD's Nuclear Density Gauges
RP 209	Media Messages and Tools to Reduce Serious Single Vehicle Run-Off-the-Road Crashes Resulting from Impaired Driving
RP 207	Real Time Snow Slope Stability Modeling of Direct Action Avalanches
RP 205B	Assessing the Idaho Transportation Department's Customer Service Performance
RP 205A	Idaho Transportation Department 2011 Customer Satisfaction Survey
RP 204	Analytical Tools for Identifying Bicycle Route Suitability, Coverage, and Continuity
RP 203	Growing the Idaho Economy Moving into the Future
RP 201	Evaluating the Effectiveness of Winter Chemicals on Reducing Crashes in Idaho
RP 200	Potential Safety Effects of Lane Width and Shoulder Width on Two-Lane Rural State Highways in Idaho
RP 199	Study of the Effectiveness of ITD Pavement Design Method
RP 198	Market Research for Idaho Transportation Department Linear Referencing System (LRS)
RP 197	Idaho Transportation Department 2009 Customer Satisfaction Survey
RP 196	Idaho Transportation Department 2009 Partnership Survey
RP 194	Field Investigation of Concrete Sealer Products to Extend Concrete Pavement Life - Phase 1
RP 193	Implementation of the MEPDG for Flexible Pavements in Idaho
RP 191A	Potential Crash Reduction Benefits of Safety Improvement Projects - Part A: Shoulder Rumble Strips
RP 190	Performance Evaluation of Chip Seals in Idaho
RP 185	Developing Statistical Correlations of Soil Properties with R-Value for Idaho Pavement Design
RP 184	Effect of Bridge Deck Design Methodology on Crack Control
RP 183	An Evaluation of Idaho Transportation Department Needs for Maintenance Management and Pavement Management Software Tools
RP 182B	Materials Acceptance Risk Analysis: Superpave Hot Mix Asphalt
RP 182A	Materials Acceptance Risk Analysis: Pavement Markings
RP 182 C	Materials Acceptance Risk Analysis: Portland Cement Concrete
RP 181 Phase A Phase B	Superpave Performance Testing Phase A: Evaluation of Mix Resistance to Deformation Phase B: Evaluation of Mix Resistance to Fracture and Fatigue Cracking
RP 180	An Automated Testing Tool for Traffic Signal Controller Functionalities
RP 179	Synthesis of Research on Work Zone Delays and Simplified Application of Quickzone Analysis Tool
RP 176	Contamination of Weathering Steel During Construction
RP 175	Performance of Idaho HMA Mixes Using Gyratory Stability
RP 173(B)	Instruction Manual for Load Rating the I.B. Perrine Bridge
RP 173(A)	Load Rating the I.B. Perrine Bridge
RP 172	Guidelines for Designing and Implementing Traffic Control Systems for Small- and Medium-Sized Cities in Idaho
RP 171	Native Plants for Idaho Roadside Restoration and Revegetation Programs
RP 170	Valuation of Indirect Losses Due to Proximity Damages on Residential Property in Idaho -Final Report
RP 169	Introduction to the TWOPAS Assistant

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RP 168	Idaho Commercial Truck Registration Study
RP 167	The Effects of Errors in Annual Average Daily Traffic Forecasting: Studies of Highways in Rural Idaho
RP 166	Steady-State Dynamometer Testing of a Passenger Van: Comparing Operation on Gasoline and Aqueous Ethanol
RP 165	A Video-Based Method for the Detection of Truck Axles
RP 163	Valuation of Indirect Losses Due to Proximity Damages on Residential Property in Idaho - Interim Report
RP 162	Using TWOPAS Simulation Model to Provide Design and Operations Information on the Performance of Idaho's Two-Lane Highways
RP 161	Idaho Roadside Revegetation handbook
RP 160	Analysis of the Long-term Pavement Performance Data for the 3 Idaho GPS and SPS Sections
RP 159	The Development of "Roadway Name" Table for the Idaho Transportation Department's Milepost And Coded Segment (MACS) System
RP 158 Phase I	Freeway Incident Detection and Arterial Systems Management for the I-84 Corridor, Phase I
RP 158	Freeway Incident Detection and Arterial Systems Management for the I-84 Corridor
RP 157	Synthesis into the Causes of Concrete Bridge Deck Cracking and Observations on the Initial Use of High Performance Concrete in the US 95 Bridge over the South Fork of the Palouse River
RP 156	Idaho Statewide Trip Generation Rates and Friction Factors
RP 155	Implementing Pontis as a Bridge Management Tool in Idaho
RP 154	Evaluation and Treatment of Expansive Volcanic Soils - US 95, Owyhee County, Idaho
RP 150	Erosion Control and Revegetation Demonstration Project Report, Horseshoe Bend Hill, Idaho State Highway 55
RP 149	Catalytic Igniter to Support Combustion of Ethanol-Water/Air Mixtures in Internal Combustion Engines
RP 148	Development and Performance Prediction of Idaho Superpave
RP 143	Evaluation of Potential Earthwork Savings in Road Design Using ROADZ
RP 142	Development and Implementation of the Idaho Highway Slope Instability and Management System (HiSIMS)
RP 141C	Evaluation of the Impacts of Increasing Truck Weights on Two Pilot Project Routes in Idaho
RP 141B	Evaluation of the Impacts of Reducing Truck Speeds on Interstate Highways in Idaho – Phase III
RP 141A	Evaluation of the Impacts of Reducing Trucks Speeds in Interstate Highways in Idaho
RP 134 User Manual	Traffic Signal Controller Interface: User Manual
RP 134	Traffic Signal Controller Interface
RP 132	Control Strategy for Signalized Intersections
RP 131	Development of Microstation Tools to Compute Circuit Requirements and Lighting Design Elements
RP 130	Statewide and Sub-area Transportation Model Feasibility Study
RP 129	Economic Impact of Work Zone Travel-Time Delays
RP 128	Camber Growth in Prestressed Concrete Bridge Girders
RP 127	Integrated Erosion Control Methods for Highway Construction and Slope Maintenance
RP 125	ITD Update of Winter Maintenance Complement Prediction Model
RP 124 Phase 3	Monitoring and Modeling Subgrade Soil Moisture for Pavement Design and Maintenance in Idaho, Phase III: Data Collection
RP 124 Phase 1	Monitoring and Modeling Subgrade Soil Moisture for Pavement Design and Maintenance in Idaho, Phase I: Development of Scope of work

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RP 121 Phase 2 Volume 2	Development of Recommendations and Guidelines for Pavement Rehabilitation Design Procedures for the State of Idaho - Phase 2: Development of a Mechanistic Based Overlay Design System, Vol. 2 FLEXOLAY Program Uiser manual
RP 121 Phase 2 Volume 1	Development of Recommendations and Guidelines for Pavement Rehabilitation Design Procedures for the State of Idaho - Phase 2: Development of a Mechanistic Based Overlay Design System, Vol. 2 FLEXOLAY Program documentation
RP 121 Phase 2	WINFLEX for WINDOWS 95 - A Mechanistic-Empirical Overlay Design System for Flexible Pavements (User's Guide and Tutorial Examples)
RP 121	WINFLEX 2000 - Mechanistic-Empirical Overlay Design System for Flexible Pavement- Technical Background for Program Development
RP 119A	Ground Penetrating Radar (GPR) Evaluation
RP 117	Evaluation of Unpainted Weathering Steel Bridges in Idaho
RP 116B	Applications of Video Based Traffic Detection Systems in Idaho: A Progress Report
RP 116A User Manual	Auto Pay Item User's Manual (API Version 3.0)
RP 115	The Effects of Over-Tightening High-Strength Bolts Used in Bolt Connections in Bridges
RP 112C	Idaho Statewide Trip Generation Rates and Friction Factors
RP 112B	Development of Recommendations and Guidelines for Pavement Rehabilitation Design Procedures for the State of Idaho - Phase I: Software Evaluation and Data Analysis
RP 112A Final	Determining the Feasibility of Using Video Imaging Techniques to Collect Transportation Data
RP 111D	Forecasting Travel Demand on Idaho Highways
RP 111C	Development of a Methodology to Determine Appropriate Traffic Control for Intersections
RP 111B	Performance Life of Asphalt Concrete Overlays Governed by Fatigue Cracking Variables
RP 110D	Subgrade Resilient Modulus for Idaho Pavements
RP 110C	Benefit Cost Analysis of Winter Maintenance Levels of the Idaho Transportation Department
RP 110B1 RP 110B2	Capacity and Delay Characteristics of Two-Way Stop-Controlled Intersections
RP 110A	A Procedure to Calculate the Economic Benefit of Increased Pavement Life that Results from Port-of-Entry Operation
RP 109D	Pavement Deflection Data at the Long-Term Monitoring Sites in Idaho for Structural Performance
RP 109C Addendum	Determination of a Model to Predict Winter Maintenance Personnel Levels
RP 109C	Determination of a Model to Predict Winter Maintenance Personnel Levels
RP 109B	Estimating Capacity and Delay at a Single-Lane Approach All-Way Stop-Controlled Intersection
RP 109A	STBLIN - An Interactive Data Preparation Program for Slope Stability Program -- STABL
RP 105	Full Scale Experimental Investigation of the Structural Response of the Bonners Ferry Bridge
RP 104	Video Image Distress Analysis Technique for Idaho Transportation Department Pavement Management System
RP 103	The Expanded Montana Asphalt Quality Study Using High Pressure Liquid Chromatography Final Report
RP 102	Selection and Evaluation of Methods and Treatments for Acceptable Fatigue Life of Moisture-Susceptible Dense-Graded Asphalt Concrete: Southern Idaho Aggregates
RP 101	Evaluation of Idaho's First Sulphur Extended Asphalt (SEA) Pavement, Demonstration Project No. 54
RP099	Effects of I-90 Construction Activities on Spawning Success of Kokanee (Oncorhynchus Nerka) in Coeur d'Alene Lake
RP097	Review and Modification of Resilient Modulus Test Procedures and Apparatus

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RP096	Polymer Concrete Bridge Deck Overlay near Murtaugh, Idaho
RP095	Field Evaluation of the PAT Weigh-in-Motion System
RP094	A Calculator Program to Estimate Truck Coasting Speeds for Designing Gravel Arrester Beds
RP088	Reducing Corrosion of Reinforcing Steel in Concrete Bridge Decks
RP087	Effects of Idaho Aggregate Gradation on Asphalt Paving Mix
RP085	Evaluation of a Sacrificial Type Cathodic Protection System for Bridge Deck Reinforcement
RP083B	Supporting Data for Value Engineering Study of Shoulder Maintenance
RP083A	Value Engineering Study of Shoulder Maintenance
RP082	Field Test of Sinmast Deep Conservation
RP081B	Predicting Moisture-Induced Damage to Asphaltic Concrete - Field Evaluation Phase
RP081A	Predicting Moisture-Induced Damage to Asphaltic Concrete - Field Evaluation Phase
RP080	Pavement Width Standards for Rural Two-Lane Highways
RP079	Maximum Probable Earthquake Acceleration on Bedrock in the State of Idaho
RP078C	1974-1975 Progress Report of Roadway Revegetation Studies for the Mullan Line West Section of Interstate I-90
RP078B	1973-1974 Progress Report of Roadway Revegetation Studies for the Mullan Line West Section of Interstate I-90
RP078A	1972 Progress Report of Roadway Revegetation Studies for the Mullan Line West Section of Interstate I-90
RP076	Practical Laboratory Measurement and Application of Stiffness or Resilient Properties of Soils and Granular Bases for Idaho Flexible Pavement Design Procedures
RP075	Economic Impact of Highway Snow and Ice Control
RP074	In-Situ Determination of Chloride Content of Portland Cement Concrete in Bridge Decks
RP073	Regional Deer-Vehicle Accident Research
RP072	Bark Mulch Trials
RP071	Cathodic Protection of Bridge Decks
RP070	Asphalt Pavement Mixture Performance Evaluation
RP069	A Continuing Skid Resistance Inventory
RP066	Earthwork Compaction Control by Percent Air Void
RP064	Field Study of Seal Coats
RP062	Asphalt Quality Evaluation
RP061C	Studded Tire Pavement Wear Reduction and Repair: Phase 3
RP061B	Studded Tire Pavement Wear Reduction and Repair: Phase 2
RP061A	Studded Tire Pavement Wear Reduction and Repair: Phase 1
RP060	A Report on a Static and Dynamic Pile Test in Pocatello, Idaho
RP059	An Inventory of the Skid Resistance of Idaho Highways
RP058	An Investigation of the Transverse Distribution of Live Loads on a Post-tensioned Concrete Spread Box-girder Type Bridge
RP057	Comparative Retroreflectivity of Glass Beads in Traffic Marking Paint
RP056	The Use of Kerosene as a Deslicking Agent
RP055	Effects of Aluminum Pipe on Pumped Concrete
RP054	Determination of the Effect of Environmental Temperatures on Compaction of Asphaltic Pavements
RP053	Geology and Highway Location Considerations in the Orofino - Kamiah - Nez Perce Areas, Idaho
RP052	Settlement Study Conducted on 50-Foot High Granular Approach Embankment - F-FG-3022(16) East Connector to Boise
RP051	Pavement Evaluation: R-Value and Pavement Deflections - Phase I Report
RP050	A Study of Littering along Idaho's Highways
RP048	Skid Resistance Testing of Idaho Highways
RP047B	The Moisture Mechanism that Causes Asphalt Stripping in Asphaltic Pavement Mixtures, Phase II

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RP043	Evaluation Tests on Reclamite
RP042	Evaluation of Asphalt Pavement Performance
RP039	Idaho Highway Maintenance Study: Part I - Maintenance Fund Allocation, Part II - Highway Maintenance Classification, Part III - Field Maintenance Practices
RP038	Use of Insulation to Attenuate Frost Heaving
RP037	Use of Mineral Filler to Improve Poor Aggregate for Plant Mix Pavement: Phase I - Evaluation of Existing Test Procedures, Phase II - Development of a Standard Test
RP036	A Study of Pavement Damage from the Use of Stud Equipped Tires
RP035	Highway Operations with Truck Trailer Double & Triple Units
RP034	Availability of Aggregates in Southern District II
RP033	A Study Comparing the Sealing Resistance of Air-Entrained Concrete with Concrete Containing a Silicone Admixture
RP032	A Pilot Study of Maintenance Costs of Idaho Highways
RP031	Frost Heaves on State Highway 15
RP030	Development of a Simple Device for Predicting the Permissible Spring Axle Loading of Asphalt Pavements
RP029	A Comparison of the Idaho and California Methods of Evaluating Aggregate Degradation
RP028	Groundwater Movement in Landslides
RP026	An Investigation of Nuclear Methods of Determining Moisture Contents and the Compacted Densities of soils and Aggregates
RP024H	Investigation of Cracking in Flexible Data
RP024G	Laboratory Testing of Mineral Fiber Fillers for Asphalt Concrete
RP024F	Asbestos Fiber as a Filler in a Plantmix Pavement
RP024E	Non-destructive Testing and Compaction Control of Asphaltic Pavement Construction
RP024D	Field Determination of the Areal Extent of Stripping in Idaho Pavements
RP024C	Mixing Time Studies Using Ross Count Method
RP024B	Preliminary Analysis of Asphalt Pavement - Crack Investigation
RP024AV04	Flexible Pavement Failures - Case Study No. 4: Round Valley to Cascade
RP024AV03	Flexible Pavement Failures - Case Study No. 3: Pocatello West to American Falls
RP024AV02	Flexible Pavement Failures - Case Study No. 2: Jct. 20-26 at AEC to Idaho Falls
RP024AV01	Flexible Pavement Failures - Case Study No. 1: US 191 - Malad North & South
RP021	Reconnaissance and Salvage of Archaeological Sites on Idaho Highways
RP020	An Evaluation of Flexible Pavement Design Methods
RP019	Peak Discharges from Small Drainage Basins
RP016	Durability of Metal Pipe Culverts
RP011	Quality Control
RP009B	Pavement Roughness Testing with the PCA Roadmeter
RP009A	A Study of Pavement Serviceability with the Idaho Bumpometer
RP008	Field Experiment in Seal Coats
RP007	Field Control of Asphalt Pavement Construction
RP006	Alkali Reactivity of Concrete Aggregates Used in Idaho
RP005B	Planning and Financing Roads in Sparsely Settled Public Land States with Special Reference to Idaho
RP005A	Bear Ridge Base Stabilization Investigation
RP004	Development of an Asphalt Pavement Air Permeameter and Evaluation of Its Use
RP003	An Urban Sufficiency Rating Procedure for Idaho Highways
RP002V16	Land Economic Studies - Project 1381 (10) Case study No. 20. Blackfoot, Idaho Parcel 4.5 Severance Study
RP002V15	Land Economic Studies - Project I-15-1(19)61 (Case Study No. 19) Pocatello, ID Parcel 12, Severance study
RP002V14	Land Economic Studies - Project F-1381(10) (Case Study No. 18) - Blackfoot, ID Parcel #4

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RP002V13	Land Economic Studies - Project F-1381(10) (Case Study No. 17) - Blackfoot, ID Parcel 7 & 8 Severance Study
RP002V12	Land Economic Studies - Project F-1381(10) (Case Study No. 16) Blackfoot, ID Parcel #1 Severance Study
RP002V11	Land Economic Studies - Project I-15-1(18)70 (Case Study No.15) - Pocatello, ID Parcel 6
RP002V10	Land Economic Studies - Project I-15-1(18)70 (Case Study No. 14) - Pocatello, Parcel 5 & 3/4's, Severance Study
RP002V09	Land Economic Studies - Project I-15-1(18)70 (Case Study No. 13) - Pocatello Parcel 8, Severance Study
RP002V08	Land Economic Studies - Project I-15-1(18)70 (Case Study No. 12) - Pocatello, Parcel 6, Severance Study
RP002V07	Land Economic Studies - Project I-15-1(18)70 (Case Study No. 11) Pocatello, Parcel 5
RP002V06	Land Economic Studies - Project U-3021(22) (Case Study No. 10) - Boise, Parcle 8 & 9, Severance Study
RP002V05	Land Economic Studies - Project F-1032(20) (Case Study No. 9) - Pocatello, Idaho Parcel #1
RP002V04	Land Economic Studies - Project I-15-3(7)111 (Case Study No. 8) - Bingham County Line to Idaho Falls, Parcel C
RP002V03	Land Economic Studies - Project F-6471(17) (Case Study No. 7) Idaho Falls, Parcel 2 & 11, Severance Study
RP002V02	Land Economic Studies - Project I-15-3(3)117 (Case Study 3-6 inclusive) Idaho Falls, Parcel D
RP002V01	Land Economic Studies - Project F-3022-8 (Case Studies 1-2) Sebree - Mt. Home Parcel 3
RP002	Some Problems of Planning and Financing Roads in Sparsely Settled Public-Land States with Special Reference to Idaho
RP001V03	Some Problems of Planning and Financing Roads in Sparsely Settled Public-Land States with Special Reference to Idaho
RP001V02	Value of Forest Highways in Idaho
RP001V01	Value of Roads to and in Public Lands - Preliminary, Part 1, Volume 1: Effect on Timber and General Values