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U.S. Department
of Transportation
**Federal Highway
Administration**

1200 New Jersey Ave., SE
Washington, D.C. 20590

March 7, 2017

**FOIA Control Number:
2017-0154**
In Reply Refer To:
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This is in response to your Freedom of Information Act (FOIA) request, dated February 9, 2017, FOIA Control Number 2017-0154, for a list or printout of items from the Federal Highway Administration's (FHWA) Research library catalog which are non-public, restricted, classified, or for internal use only.

As requested, we are providing you with a full release of the list of items. Because your request involved readily accessible electronic files, no fees are being assessed at this time.

If you need any further assistance or would like to discuss any aspect of your request please do not hesitate to contact FHWA FOIA Public Liaison, Christopher Richardson at FOIAPublicLiaison@dot.gov, via phone (202) 366-0740.

Sincerely,

Kimberly V. Wilkins
Director, Resource Management

Enclosure

FHWA Research Library Restricted Titles

Advancements in highway materials and construction technology
An analysis of alternative solutions to the urban highway noise problem
Analysis of costs for shop painting of bridges
Analysis of laboratory test on field and fabricated cores
Analysis of load transfer systems for concrete pavements
Analysis of rural crash types and contributing factors : activity 1 report.
Application and validation of remaining service interval framework for pavements
Articulated arm truck fabrication and operation manual.
Asphalt surface treatments and thin overlays
Assessment and mitigation of potential environmental impacts of portland cement concrete highway grindings
Assessment of performance of impact attenuators mounted on curbs
Assessment of research project SPR 371: maintenance cost effectiveness study
Atlanta Traveler Information Showcase : public relations program
Behavior and design of buried concrete pipes phase II [electronic resource]
Benefit-cost analysis of roadside features : Task G white paper.
Benefits assessment framework for infrastructure RD&T
Big Dig reports : unpublished [electronic resource]
Bogie practice tests
Borehole jacking tests at the Forest Glen Station site
Bridge deck deterioration and deck life : state-of-the-art : phase II
Bridge deck rehabilitation using cathodic protection with a low-slump concrete overlay
Bridge inspection access
Bridge integrated analysis and decision support : case histories, phase I : final report
Bridge manual : design and evaluation, 1991
Bridge rail designs and performance standards. Volume II, Appendix B
Call-takers training manual
Characterization of asphalts using gel permeation chromatography and other methods
A combination resistivity, seismic, and electromagnetic geotechnical probe system
Comparison of predicted pavement structural response with field measured data
Comparison of the use of a notched wedge joint vs. traditional butt joints in Connecticut. Phase 1 report
Compilation of culvert design coefficients.
Compression response of a rapid-strengthening ultra-high performance concrete formulation
Computational methods for hydraulic analysis of culverts
Concepts for evaluation of rolling wheel load deflection
Conceptual plan for an interactive highway safety design model
The conduct of socio-economic impact assessments : a manual for state highway personnel. Volume I,
The impact assessment process
Contemporary forest road management with economic and environmental objectives [electronic resource]
Conversion of the statewide noise barrier inventory into a spatially referenced geodatabase
Correction and repair of road edge scour for grassed shoulders : technical summary
The costs of complying with federal-aid highway regulations.
Critical review of the report on the evaluation of an analytical approach for establishing velocity change values

Critical review of the report on the evaluation of an analytical approach for establishing velocity change values : a consolidated summary

Cross-section fatal crash type prediction models [electronic resource]

D-cracking in PCC pavements : cause and prevention

Dallas area-wide Intelligent Transportation System plan

Data collection guide for long-term pavement monitoring

Data progress report of the right of way acquisition effects on the remaining rural farms and ranches along IS 10 through Colorado and Fayette Counties

Defining an advanced quality system and the elements that integrate it [electronic resource]

Design of stable channels

Design pamphlet for the determination of design subgrade in support of the 1993 AASHTO guide for the design of pavement structures

Design recommendations for column-supported embankments

Detection of flaws in reinforcing steel in prestressed concrete bridge members

Detection of microcracks in concrete cured at elevated temperature : final report

Determination of shear strength values for granular backfill material used by the Wisconsin Department of Transportation

Determination of traffic signal intensity levels : data analysis. Phase A experiments, Visibility of circular traffic signal indications

Development and calibration of mechanistic-empirical distress models for cost allocation : preliminary draft final report.

Development and testing of advanced control strategies in the Urban Traffic Control System.

Development of a high-performance median barrier

Development of a stand-alone concrete bridge pier protection system [electronic resource]

Development of a standard accelerated corrosion test for acceptance of post-tensioning grouts in Florida

Development of a state-of-the-art traffic microsimulation model for Nebraska [electronic resource]

Development of an interactive freight mobility and security database structure for research and freight modeling applications

Development of diurnal traffic distribution and daily, peak, and offpeak vehicle speed estimation procedures for air quality planning.

Development of information requirements and transmission technique for highway users

Development of IVHS traffic parameter specifications : Task A draft report for Detection technology for IVHS

Development of IVHS traffic parameter specifications : Task A draft report for Detection technology for IVHS

Development of optimum specifications for glass beads in pavement marking

Development of prototype driver models for highway design. Task C, Develop and test prototype driver performance model (DPM)

Development of safer utility poles

Development of testing methods to determine interaction of geogrid-reinforced granular material for mechanistic pavement analysis : a draft report

Development of the interrelationship between driver behaviour and highway design and safety [electronic resource]

Development of traffic logic for optimizing traffic flow in an intercity corridor. Volume 2, Algorithm models and requirements

A discussion of six procedures for evaluating highway safety projects

Driver performance and preference for simple auditory and visual route guidance displays

Driving anger, sensation seeking, narcissism, and driver's angry thoughts in the prediction of unsafe driving [electronic resource]

Effects of changes in effective rail height on barrier performance. Volume II

Effects of shoulder textured treatments on safety

Enhanced night visibility series. Volume X, Phase II--visual performance simulation software for objects and traffic control devices

Eureka Distributive Intelligence Progression System (EDIPS) : Type 170 traffic signal controller system : users manual.

European highway-rail crossing safety systems and practices : a U.S. DOT pre-scan assessment

Evaluating and improving analytical approaches in landscape genetics through simulations and wildlife case studies [electronic resource]

Evaluation and benefits assessment of QuickZone : final report

Evaluation and enhancement of accident prediction models and accident modification factors of rural intersections [electronic resource]

Evaluation of all-weather pavement markings

Evaluation of an analytical approach for establishing velocity change values

Evaluation of intelligent compaction technology for densification of roadway subgrades and structural layers

Evaluation of IRI decreases with time in the LTPP Southern Region

Evaluation of microwave oven and nuclear asphalt content gauge

Evaluation of recycled materials for roadside safety devices

An evaluation of stormwater permeable rapid infiltration barriers for use in Class V stormwater injection wells

Examination of infra-red techniques for inspection of steel structures [electronic resource]

Experimental gravel shoulders : project IXM 1115 (7), S. Kipling Boulevard

Experimental plans for accident studies of highway design elements : encroachment accident study

An Experimental study of scour protection alternatives at bridge piers

Feasibility of nondestructive crack detection and monitoring for steel bridges

Federal credit for surface transportation : exploring concepts and issues

Federally coordinated program of research and development in highway transportation.

FHWA Workshop on Mathematical Modeling of Rigid Pavements : conference proceedings

Field research experiment for new site exploration techniques : acoustic pulse-echo and through-transmission surveys

Finite element analysis of for roadside safety features.

Fixed-end server (FES) to message session based client (MSBC) interface control document (ICD)

Flexible and composite structures for premium pavements. Volume 1, Development of design procedure

Flexural behavior of lightweight concrete columns under seismic conditions

Flow control structures for highways in river environments

Freeway management handbook

General deformation (elastic and inelastic) and stress distribution theory in soils : final report

The Glasgow experiment : preliminary results of the first surveys

A guide for highway traffic regulation in an emergency

Guide for the protection of street and highway transportation facilities from sabotage and enemy attack.

Guidelines for implementing the new MEPDG pavement equations : draft final report

Handbook for communicating travel time reliability through graphics and tables

High performance concrete bridge deck investigation

Highway innovation clearinghouse study : draft.

Highway pedestrian safety since 1978 : incorporating developments into a revised model pedestrian safety program user's manual

Highway safety evaluation procedural guide.

Hybrid empirical mode decomposition-neuro model for short-term travel time prediction on freeways [electronic resource]

HYRISK methodology and user guide

I-90 Seaport Portal Tunnel partial ceiling collapse investigation : adhesive anchor load and load-displacement testing results

I-90 Seaport Portal Tunnel partial ceiling collapse investigation : adhesive anchor sustained load testing results

I-90 Seaport Portal Tunnel partial ceiling collapse investigation : finite element design analysis

I-90 Seaport Portal Tunnel partial ceiling collapse investigation : mechanical behavior of Powers Fasteners Power-Fast+ adhesive anchors

I-90 Seaport Portal Tunnel partial ceiling collapse investigation : sustained load behavior of Powers Fasteners Power-Fast+ adhesive anchors

Identification and demonstration of a technology adaptable to locating water in post-tensioned bridge tendons

Impacts of climatic change and variability on winter-road maintenance in North America [electronic resource]

Implementing congestion pricing : distributional implications

Improving efficiency of INDOT traffic data collection using GPS devices [electronic resource]

In-vehicle subsystem overview and interface specifications

Incremental costs and performance benefits of various features of concrete pavements

Influence of differential deflection on staged construction deck-level connections

INFORM evaluation

Infrasound avalanche monitoring system research evaluation

Innovative bridge design using high performance steel

Instrumentation of Linn Cove Viaduct

Integrating geo-spatial technologies into the right-of-way data-management process : final report

Integration of field testing results with computer modeling activities

Investigating the statewide variability and long-term strength deformation characteristics of RAP and RAP-soil mixtures

Investigation of lane occupancy as a control variable for a safety warning system for urban freeways

Investigation of rutting and segregation of asphalt mixtures in the State of Georgia

Issues and answers for the pedestrian or bicycle advocate. Vol. II, Supporting abstracts.

Laboratory determination of resilient modulus for flexible pavement design : final report

Laboratory procedures to determine the breakaway behavior of luminaire supports in mini-sized vehicle collisions : test results report. Task E, Bogie testing

Laboratory procedures to determine the breakaway behavior of luminaire supports in mini-sized vehicle collisions : twenty MPH frontal stiffness test of VW Rabbit using instrumented rigid pole : test r

Laboratory procedures to determine the breakaway behavior of luminaire supports in mini-sized vehicle collisions. Task D, Development testing for FOIL bogie : bogie test results report : inertial chec

Laboratory scour investigation : McKinley

Land use forecasting techniques for use in small urban areas

Landline data system interface control document

Legacy plan

[Letter] 1995 April 4, Hamilton, Ontario [to] Peter Verok, Downsview, Ontario

Life-cycle cost analysis in pavement design : draft

Load distribution on highway bridges based on field test data : Phase III : draft report

Load prediction and structural response

Load transfer device placement tolerances

Long-term pavement monitoring program : alternative development workshop, October 15-19, 1984

Long-term pavement monitoring program : development of pavement monitoring : prepared for alternative development workshop

Long-term pavement performance program determination of in-place elastic layer modulus : backcalculation methodology and procedures

LTPP maintenance and rehabilitation data review, final report

Macroscopic simulation for urban traffic management : the TRAFLO model. Volume 7, Data reduction, calibration and validation study for TRAFLO, part A

Maintenance decision support systems : a proven, cost-effective tool for state and local DOTs.

Maintenance work zone safety : an unpublished final report

Management and staffing plan for the Traveler Information Showcase operations center : June 1-September 30, 1996

Management of hazardous waste from highway maintenance operations

A Manual on the airphoto interpretation of engineering soils

Manual on uniform traffic control devices for streets and highways : preliminary draft, June 1960

Mapcon pavement analysis computer system : executive training manual

MCMIS user's manual.

Method to remove pavement markings

Methodology for estimating life expectancies of highway assets.

Midwest electronic one-stop shopping : ITS field operational test

Minimum levels of in-service retroreflectivity for pavement markings : summary of workshop findings

Minimum levels of retroreflectivity for overhead guide signs and street name signs

Mixture design and project evaluation of stone matrix asphalt mixtures on US-28 in Alabama : draft final report

A mobile system for measuring retroreflectance of traffic signs : Phase II, preliminary draft final report

Model-based optimization of ultra high performance concrete highway bridge girders

Modern timber bridges : manual for inspection, quality control and assurance, and load rating

Movement of small mammals across divided highways with vegetated medians [electronic resource]

NCHRP Project 20-7

NCHRP report 350 compliance test of the New Jersey safety shaped barrier

NHTSA driver distraction Internet forum : summary and proceedings July 5-August 11, 2000

NHTSA

Nuclear radiation hazards to highway transportation

Pavement management : principles and practices : participant notebook

Paying for Minnesota (low-volume) roads : a tax policy assessment

Performance requirements of high quality flexible pavements

Physical alternatives to chemicals for highway deicing.

Pilot test of the traffic sign evaluator.

Plan for the user assessment of Atlanta Showcase technologies

Planning project for development of procedures for the analyses of weight distribution data to calculate equivalent loads

The police function in highway traffic regulation in an emergency

Pollutant loading to stormwater runoff from highways : impact of a highway sweeping program : phase II, Madison, Wisconsin

Post-tensioned bridge girder anchorage zone enhancement with fiber reinforced concrete (FRC)

Potential advancements in freeway surveillance and control techniques : a technical report

Precursor systems analyses of Automated Highway Systems : AHS safety issues. Volume 9

Precursor systems analyses of Automated Highway Systems : executive summary. Volume one

Precursor systems analyses of Automated Highway Systems : malfunction management activity area report for AHS health management precursor system analysis

Precursor systems analyses of Automated Highway Systems : malfunction management and analysis. Volume five

Preliminary evaluation and analysis of LTPP faulting data : final report

Present status of management and technical practices on alluvial fan areas in Arizona : state of the art

Profiles of 511 traveler information services [electronic resource] : nationwide deployment areas : draft copy.

Program management plan for Traveler Information Showcase (TIS)

A proposed analytical technique for the design and analysis of major freeway weaving sections

Regional Transit Project report on non-motorized access study : draft

Relationship between pavement surface characteristics and crashes

A review of HOV lane performance and policy options in the United States [electronic resource]

A review of information on seismic hazards needed for the earthquake-resistant design of lifeline systems in the United States : a draft technical report of Subcommittee 3, "Evaluation of Site Hazards

Risk-based evaluation of commercial motor vehicle roadside violations : process and results

A roadside design procedure

Safety effects of marked vs. unmarked crosswalks at uncontrolled locations : final report and recommended guidelines

Safety modification of turned-down guardrail terminals

Screening of structural adhesives for application to steel bridges

Service life of retroreflective traffic signs

Signal analysis with Huang Hilbert transforms [electronic resource]

Site investigation for design and construction of tunnels

Soils and foundations : participant workbook : draft

Soils exploration and testing manual

Special reports on trip and vehicle attributes : based on data from the 1990 Nationwide Personal Transportation Survey (NPTS)

Splice length of prestressing strand in field-cast UHPC connections

Standardizing the pressuremeter test for determining p-y curves for laterally loaded piles

Structural behavior of a 2nd generation ultra-high performance concrete pi-girder

Structural behavior of a prototype ultra-high performance concrete pi-girder

Structural factors of jointed plain concrete pavements [electronic resource] : SPS-2 : initial evaluation and analysis

Structural integrity assessment of pin and hanger connection of aging highway bridges using finite element analysis [electronic resource]

A study to recommend measures of the benefits of infrastructure RD&T : final report

Summary of the 2006 use of a notched wedge joint in Connecticut pilot projects : final report

Synthesis of human factors research on older drivers and highway safety

Synthesis of pedestrian safety research

Synthesis of research and provisions regarding the use of lightweight concrete in highway bridges [electronic resource]

Synthesis report on natural disaster reduction of roads

Temporary pavement markings for work zones : final report draft

Test and evaluation master plan : version 2.0

Test and evaluation of the TWOPAS rural traffic simulation model

Test and evaluation project no. 28, anti-icing technology. Volume 2, Analysis results and interpretation for Ohio I70 field evaluation, winter 1994

Test and evaluation project no. 28, anti-icing technology. Volume 3, Analysis results and interpretation for Nevada field evaluation, winters 1993

Testing and evaluation of the W-beam transition (on steel posts with timber blockouts) to the vertical flared back concrete bridge parapet

Testing of state roadside safety systems

Thaw stabilization of roadway embankments constructed over permafrost

The theory and computerized design of statistical construction specifications

Thermal effects on pavement response

Toll facilities study : task force draft report

Traffic characteristics during signal change intervals

Traffic monitoring guide [electronic resource].

Traffic operations at two-way stop-controlled intersections. Volume I, Development of procedures to determine capacity and level of service : draft final report : executive summary

Training activities and materials for Showcase technologies : identification of needs

Traveler Information Showcase : surveillance design report

Truck driver compliance with traffic laws

Urban Traffic Control System : operator's manual

Use of PMS data for performance monitoring with superpave as an example

User assessment appendix

User's guide to databases developed for evaluating two-lane highway design consistency

User's manual for the Unified Methodology for Pavement Analysis and Design (UMPAD) computer program

Users of Atlanta Showcase technologies : recommendations for targets and plan for recruitment, distribution, and promotion

Vehicle detector field test specifications and field test plan : Task F draft report for Detection Technology for IVHS

Volume II : effective practices in state department of transportation security planning

Volume III : recommendations for PennDOT to address transportation security

Warping and curling of rigid pavements, a mechanistic approach implemented in UMPAD

Woodrow Wilson Bridge project over Potomac River : hydrology & hydraulic report for purpose of scour analysis.