11/5/832

Engineering

Civil Engineering

Illinois Cooperative Highway and Transportation Series, 1956

Box 1:

An Experimental Study of the Action of Web Reinforcement in Prestressed Concrete Beams by R.N. Bruce, Prepared as a Part of an Investigation Conducted by The Engineering Experiment Station, University of Illinois, In cooperation with the Division of Highways, State of Illinois and U.S. Department of Commerce Bureau of Public Roads, Project IHR-10, September 1962

Hydrologic Determination of Waterway Areas for the Design of Drainage Structures in Small Watersheds by Ven Te Chow, A Report on Project IHR-23: Determination of Waterway Areas, Department of Civil Engineering, University of Illinois, May 1961

A Study of the Occurrence of Potholes and Washboards on Soil-Aggregate Roads, Eugene Y. Huang

Huang, A Test for Evaluating the Geometric Characteristics of Coarse Aggregate Particles

Functions of Medians in Perspective and Annotated Bibliography, Illinois Cooperative Highway Research Program

Draft Copy, Annotated Bibliography on Motor Vehicle Speeds, Prepared by IHR-53, Vehicular Speed Regulation Research Project Personnel Under the General Supervision of John E. Baerwald, Associate Professor of Traffic Engineering, The Department of Civil Engineering, University of Illinois, July 1, 1958

Illinois Highway Research Council Report, October 27, 1964, Project IHR-12: Soil Exploration and Mapping

Box 2:

Fifth Progress Report, Investigation of Prestressed Concrete for Highway Bridges, October, 1956, Engineering Experiment Station, University of Illinois

Seventh Progress Report, Highway Bridge Impact Investigation, October, 1957, Engineering Experiment Station, University of Illinois

Seventh Progress Report, Investigation of Prestressed Concrete for Highway Bridges, October, 1958, University of Illinois

Eighth Progress Report, Highway Bridge Impact Investigation, October, 1948, Department of Civil Engineering, University of Illinois

Final Report, Highway Bridge Impact Investigation, June, 1969, Department of Civil Engineering, University of Illinois

Ninth Progress Report, Highway Bridge Impact Investigation, October, 1959, Department of Civil Engineering, University of Illinois

Eighteenth Progress Report Investigation of Prestressed Reinforced Concrete for Highway Bridges, September, 1969

Box 3:

Civil Engineering Studies, Transportation Engineering Series No. 6, Illinois Cooperative Highway Research Program, Series No. 143, Vacuum Saturation Method for Predicting Freeze-Thaw Durability of Stabilized Materials by B.J. Dempsey and M.R. Thompson, A Report of the Investigation of Durability Testing of Stabilized Materials, Project IHR-401, Illinois Cooperative Highway Research Program conducted by the Transportation Research Laboratory, Department of Civil Engineering, Engineering Experiment Station, in cooperation with the State of Illinois Department of Transportation and the U.S. Department of Transportation Federal Highway Administration, University of Illinois, December 1973

Civil Engineering Studies, Transportation Engineering Series No. 5, Illinois Cooperative Highway Research Program, Series No. 139, Interim Report Resilient Properties of Subgrade Soils Phase I – Development of Testing Procedure by Quentin L. Robnett and Marshall R. Thompson, A Report of the Investigation of Resilient Properties of Subgrade Soils, Project IHR-603, Illinois Cooperative Highway Research Program conducted by Transportation Research Laboratory Department of Civil Engineering, Engineering Experiment Station, University of Illinois, in cooperation with State of Illinois Department of Transportation and the U.S. Department of Transportation Federal Highway Administration, May, 1973

Civil Engineering Studies, Transportation Engineering Series No. 7, Illinois Cooperative Highway Research Program, Series No. 144, Correlation of Pavement Behavior and Performance Between the University of Illinois Test Track and the AASHO Road Test by Ernest J. Barenberg and Bishnu P. Hazarika, A Report of the Investigation of Correlation of the University of Illinois Pavement Test Track with the AASHO Road Test, Project IHR-84, Illinois Cooperative Highway Research Program, conducted by the Transportation Research Laboratory Department of Civil Engineering, Engineering Experiment Station, University of Illinois at Urbana-Champaign, in cooperation with the State of Illinois Division of Highways and The U.S. Department of Transportation Federal Highway Administration, July, 1973

Civil Engineering Studies, Structural Research Series No. 405, Illinois Cooperative Highway Research Program, Series No. 145, Fatigue Data Bank and Data Analysis Investigation by J.B. Radziminski, R. Srinivasan, D. Moore, C. Thrasher and W.H. Munse, Project IHR-64, Prepared as a part of an investigation conducted by the Civil Engineering Department, Engineering Experiment Station University of Illinois at Urbana-Champaign in Cooperation with the State of Illinois Department of Transportation Division of Highways and the U.S. Department of Transportation Federal Works Administration, June 1973

Civil Engineering Studies, Structural Research Series No. 406, Illinois Cooperative Highway Research Program, Series No. 146, Bibliography of Fatigue Data References for Steel Structures, Project IHR-64, Prepared as a Part of an Investigation Conducted by the Civil Engineering Department Engineering Experiment Station in cooperation with the State of Illinois, Department of Transportation, Division of Highways and the U.S. Department of Transportation, Federal Works Administration, June 1973

Civil Engineering Studies, Transportation Engineering Series No. 8, Illinois Cooperative Highway Research Program Series No. 148, Failure Modes and Required Properties in Asphalt-Aggregate Cold Mix Bases by Ilan Ishai, Moreland Herrin, David G. Leverenz, A Report of the Investigation of Structural Evaluation of Asphalt-Aggregate, Cold Mix Bases, Project IHR-505, Illinois Cooperative Highway Research Program conducted by the Transportation Research Laboratory Department of Civil Engineering, Engineering Experiment Station, University of Illinois in cooperation with the State of Illinois Department of Transportation and the U.S. Department of Transportation Federal Highway Administration, August, 1973

Civil Engineering Studies, Structural Research Series No. 407, Illinois Cooperative Highway Research Program, Series No. 149, Fatigue Behavior of Welded Reinforcement in Reinforced Concrete Beams by M.R. Barone, J.P. Cannon and W.H. Munse, Project IHR-64, Prepared as a Part of an Investigation Conducted by the Civil Engineering Department, Engineering Experiment Station, University of Illinois at Urbana-Champaign, in cooperation with the State of Illinois Department of Transportation Division of Highways and the U.S. Department of Transportation, Federal Works Administration, May 1974

Civil Engineering Studies, Transportation Engineering Series No. 9, Illinois Cooperative Highway Research Program Series No. 150, the University of Illinois Test Track as a Tool for Evaluating Pavement Performance by Ernest J. Barenberg and Bishnu P. Hazarika a Report of the Investigation of Correlation of the University of Illinois Pavement Test Track with the AASHO Road Test Project IHR-84 Illinois Cooperative Highway Research Program conducted by the Transportation Research Laboratory, Department of Civil Engineering, Engineering Experiment Station, University of Illinois in cooperation with the State of Illinois Division of Highways and the U.S. Department of Transportation Federal Highway Administration, May, 1964

Civil Engineering Studies Transportation Engineering Series No. 10, Illinois Cooperative Highway Research Program Series No. 151, Evaluation of Typical Pavement Drainage Systems Using Open Graded Bituminous Aggregate Mixture Drainage Layers by Ernest J. Barenberg and Shiraz D. Tayabji, a Report of the Investigation of Evaluation of Typical Drainage Systems Proposed by the Highway Design Committee, Project IHR-507, Illinois Cooperative Highway Research Program conducted by the Transportation Research Laboratory Department of Civil Engineering, Engineering Experiment Station, in cooperation with the State of Illinois Division of Highways and the U.S. Department of Transportation Federal Highway Administration, May, 1974

Civil Engineering Studies Transportation Engineering Series No.11 Illinois Cooperative Highway Research Program Series No. 152, Final Report Durability Testing of Stabilized Materials by Marshall R. Thompson and Barry J. Dempsey a Report of the Investigation of Durability Testing of Stabilized Materials Project IHR-401 Illinois Cooperative Highway Research Program conducted by the Transportation Research Laboratory Department of Civil Engineering, Engineering Experiment Station, in cooperation with the State of Illinois Department of Transportation and the U.S. Department of Transportation Federal Highway Administration, June 1974

Civil Engineering Studies Highway Engineering Series No. 1, Manual of Curren Practice for the Design, Construction, and Maintenance of Soil-Aggregate Roads by Eugene Y. Huang, June 1959, Department of Civil Engineering University of Illinois

Civil Engineering Studies Highway Engineering Series No. 2, A Correlation of Published Data on Lime-Pozzolan-Aggregate Mixtures for Highway Base Course Construction by George W. Hollon and Byron A. Marks a report to G. & W. H. Corson Co., Inc. Marblehead Lime Company, Pozzolan Products Co., Inc. and National Lime Association, July 1960

Civil Engineering Studies Highway Engineering Series No. 3, A Study of Occurrence of Potholes and Washboards on Soil-Aggregate Roads by Eugene Y. Huang, A Report of the Investigation of Soil-Aggregate Mixtures for Highway Pavement Sponsored by the Illinois Division of Highways and U.S. Department of Commerce Bureau of Public Roads, October 1961

Civil Engineering Studies Highway Engineering Series No. 7 Iinois Cooperative Highway Research Program Series No. 9, A Test for Evaluating the Geometric Characteristics of Coarse Aggregate Particles by Eugene Y. Huang a Report of the Investigation of Soil-Aggregate Mixtures for Highway Pavement Project IHR-46, Illinois Cooperative Highway Research Program conducted by the Highway Research Laboratory Department of Civil Engineering, Engineering Experiment Station in cooperation with the State of Illinois Division of Highways and the U.S. Department of Commerce Bureau of Public Roads, December 1962

Civil Engineering Studies Illinois Cooperative Highway Research Program Series No 25, A Study of Stress Relaxation in Prestressing Reinforcement by D.D. Magura, M.A. Sozen, C.P.

Siess, A Report of the Investigation of Prestressed Reinforced Concrete for Highway Bridges Project IHR-10, Illinois Cooperative Highway Research Program conducted by the Structural Research Laboratory Department of Civil Engineering, Engineering Experiment Station in cooperation with the State of Illinois Division of Highways and the U.S. Department of Commerce Bureau of Public Roads, Reprinted from the Journal of the Prestressed Concrete Institute Vol. 9, No. 2, April 1964

Civil Engineering Studies Structural Research Series No. 316 Illinois Cooperative Highway Research Program Series No. 64, Study of Inspection Methods and Quality Control of Welded Highway Structures by W.W. Sanders, Jr. and W.H. Munse, A Report of the Investigation of Behavior of Welded Highway Structures Project IHR-64 Illinois Cooperative Highway Research Program conducted by the Structural Research Laboratory Department of Civil Engineering, Engineering Experiment Station in cooperation with the State of Illinois Division of Highways and the U.S. Department of Commerce Bureau of Public Roads, October, 1966

Civil Engineering Studies Highway Engineering Series No. 24 Illinois Cooperative Highway Research Program Series No. 89, Flexural Fatigue Strength of Lime-Soil Mixtures by T.E. Swanson and Marshall R. Thompson, a Report of the Investigation of Lime Stabilization of Soils for Highway Purposes Project IHR-76 Illinois Cooperative Highway Research Program conducted by, the Highway Research Laboratory Department of Civil Engineering, Engineering Experiment Station in cooperation with the State of Illinois Division of Highways and the U.S. Department of Transportation Federal Highway Administration Bureau of Public Roads, April, 1968

Civil Engineering Studies Highway Engineering Series No. 25 Illinois Cooperative Highway Research Program Series No. 93, Final Summary Report Lime Stabilization of Soils for Highway Purposes by Marshall R. Thompson, a Report of the Investigation of Lime Stabilization of Soils for Highway Purposes Project IHR-76, Illinois Cooperative Highway Research Program conducted by the Highway Research Laboratory Department of Civil Engineering, Engineering Experiment Station in cooperation with the State of Illinois Division of Highways and the U.S. Department of Transportation Federal Highway Administration Bureau of Public Roads, December, 1968

Civil Engineering Studies Highway Engineering Seres No. 26 Illinois Cooperative Highway Research Program Series No. 94, Mixture Design for Lime-Treated Soils by Marshall R. Thompson a Report of the Investigation of Lime Stabilization of Soils for Highway Purposes Project IHR-76 Illinois Cooperative Highway Research Program conducted by the Highway Research Laboratory Department of Civil Engineering, Engineering Experiment Station in cooperation with the State of Illinois Division of Highways and the U.S. Department of Transportation Federal Highway Administration Bureau of Public Roads, January 1969

Civil Engineering Studies Highway Engineering Series No. 29 Illinois Cooperative Highway Research Program Series No. 97, Shrinkage and Swell Properties of Lime-Soil Mixtures by B.J.

Dempsey and Marshall R. Thompson a Report of the Investigation of Lime Stabilization of Soils for Highway Purposes, Project IHR-76, Illinois Cooperative Highway Research Program conducted by the Highway Research Laboratory Department of Civil Engineering, Engineering Experiment Station in cooperation with the State of Illinois Division of Highways and the U.S. Department of Transportation Federal Highway Administration Bureau of Public Roads, April 1969

Civil Engineering Studies Highway Engineering Series No. 30 Illinois Cooperative Highway Research Program Series No. 99, Engineering Properties of Lie-Soil Mixtures by Marshall R. Thompson, a Report of the Investigation of Lime Stabilization of Soils for Highway Purposes Project IHR-76 Illinois Cooperative Highway Research Program conducted by the Highway Research Laboratory Department of Civil Engineering, Engineering Experiment Station in cooperation with the State of Illinois Division of Highways and the U.S. Department of Transportation Federal Highway Administration Bureau of Public Roads, May 1969

Civil Engineering Studies Highway Engineering Series No. 31 Illinois Cooperative Highway Research Program Series No. 102, Tensile Behavior and Failure Characteristics of Asphalt Cements in Thine Films by Charles R. Marek and Moreland Herrin a Report of the Investigation of Basic Properties of Seal Coats and Surface Treatments Project IHR-75 Illinois Cooperative Highway Research Program conduced by the Highway Research Laboratory Department of Civil Engineering, Engineering Experiment Station in cooperation with the State of Illinois Division of Highways and the U.S. Department of Transportation Federal Highway Administration Bureau of Public Roads, June 1969

Civil Engineering Studies Highway Engineering Series No. 32 Illinois Cooperative Highway Research Program Series No. 103, Mechanism of Tensile Behavior and Failure of Asphalt Cements in Thin Films by Charles R. Marek a Report of the Investigation of Basic Properties of Seal Coats and Surface Treatments Project IHR-75 Illinois Cooperative Highway Research Program conducted by the Highway Research Laboratory Department of Civil Engineering, Engineering Experiment Station in cooperation with the State of Illinois Division of Highways and the U.S. Department of Transportation Federal Highway Administration Bureau of Public Roads, June 1969

Civil Engineering Studies Highway Engineering Series No. 36 Illinois Cooperative Highway Research Program Series No. 108, Behavior and Performance of Flexible Pavements Evaluated in the University of Illinois Pavement Test Track by Ernest J. Barenberg and Owen O. Thompson a Report of the Investigation of Correlation of the University of Illinois Pavement Test Track with the AASHO Road Test Project IHR-84 Illinois Cooperative Highway Research Program conducted by the Highway Research Laboratory Department of Civil Engineering, Engineering Experiment Station in cooperation with the State of Illinois Division of Highways and the U.S. Department of Transportation Federal Highway Administration Bureau of Public Roads, January 1970

Civil Engineering Studies Illinois Cooperative Highway and Transportation Research Program Series No. 159, Final Report Rest Area Wastewater Treatment and Disposal by John T. Pfeffer, a Report of the Investigation of Rest Area Wastewater Treatment and Disposal Project IHR-701 Illinois Cooperative Highway and Transportation Research Program conducted by the Department of Civil Engineering, Engineering Experiment Station in cooperation with the State of Illinois Department of Transportation and the U.S. Department of Transportation Federal Highway Administration, November 1974

Civil Engineering Studies Transportation Engineering Series No. 18 Illinois Cooperative Highway and Transportation Series No. 169, Final Report Subgrade Stability by M.R. Thompson – T.C. Kinney, M.L. Traylor – J.R. Bullard, J.L. Figueroa, a Report of the Investigation of Subgrade Stability Project IHR-605 Illinois Cooperative Highway and Transportation Research Program conducted by the Transportation Research Laboratory Department of Civil Engineering, Engineering Experiment Station in cooperation with the State of Illinois Department of Transportation, June 1977

Civil Engineering Studies Transportation Engineering Series No. 19 Illinois Cooperative Highway Research Program Series No. 171, Structural Analysis of Asphaltic Cold Mixtures Used in Pavement Bases by Michael I. Darter and Alois J. Devos, a Report of the Investigation of Structural Evaluation of Asphalt-Aggregate Cold Mix Bases Project IHR-505 Illinois Cooperative Highway Research Program conducted by the Transportation Research Laboratory Department of Civil Engineering, Engineering Experiment Station in cooperation with the State of Illinois Department of Transportation and the U.S. Department of Transportation Federal Highway Administration, August 1977

Civil Engineering Studies Transportation Engineering Series No. 20, Illinois Cooperative Highway Research Program Series No. 172, Performance of Continuously Reinforced Concrete Pavement in Illinois by Scott A. LaCoursiere, Michael I. Darter, Scott A. Smiley, a Report of the Investigation of Determination of Optimum Maintenance Procedures and Materials for Continuously Reinforced Concrete Pavement Project IHR-901, Illinois Cooperative Highway Research Program conducted by the Transportation Research Laboratory Department of Civil Engineering, Engineering Experiment Station in cooperation with the State of Illinois Department of Transportation and the U.S. Department of Transportation Federal Highway Administration, December 1978

Civil Engineering Studies Transportation Engineering Series No. 21 Illinois Cooperative Highway Research Program Series No. 173, Factors Affecting the Structural Response of Emulsified Asphalt-Aggregate Mixtures by Michael I. Darter, Patrick L. Wilkey, and Steven R. Ahlfield, A Report of the Investigation of Structural Evaluation of Asphalt-Aggregate Cold Mix Bases Project IHR-505 Illinois Cooperative Highway Research Program conducted by the Transportation Research Laboratory Department of Civil Engineering, Engineering Experiment

Station in cooperation with the State of Illinois Department of Transportation and The U.S. Department of Transportation Federal Highway Administration, March 1978

Civil Engineering Studies Transportation Engineering Series No. 22 Illinois Cooperative Highway Research Program Series No. 174, Development of Emulsified Asphalt-Aggregate Cold Mix Design Procedure by Michael I. Darter, Steven R. Ahlfield, Patrick L. Wiley, Richard G. Wasill, A Report of the Investigation of Structural Evaluation of Asphalt-Aggregate Cold Mix Bases Project IHR-505 Illinois Cooperative Highway Research Program conducted by the Transportation Research Laboratory Department of Civil Engineering, Engineering Experiment Station in cooperation with the State of Illinois Department of Transportation and the U.S. Department of Transportation Federal Highway Administration, February 1978

Civil Engineering Studies Transportation Engineering Series No. 23 Illinois Cooperative Highway and Transportation Series No. 170, Final Report Skid Resistant Characteristics of Illinois Aggregates by R.L. Berger – S.J. Russell, C.R. Marek – P.J. Tarkoy, R. Urich, a Report of the Investigation of Subgrade Stability Project IHR-406 Illinois Cooperative Highway and Transportation Research Program conducted by the Transportation Research Laboratory Department of Civil Engineering, Engineering Experiment Station in cooperation with the State of Illinois Department of Transportation, May 1978

Civil Engineering Studies Transportation Engineering Series No. 24 Illinois Cooperative Highway Research Program Series No. 176, Evaluation of Patching of Continuously Reinforced Concrete Pavement in Illinois by Darrell J. Maxey, Michael I. Darter, Scott A. Smiley a Report of the Investigation of Determination of optimum Maintenance Procedures and Materials for Continuously Reinforced Concrete Pavement Project IHR-901, Illinois Cooperative Highway Research Program conducted by the Transportation Research Laboratory Department of Civil Engineering, Engineering Experiment Station in cooperation with the State of Illinois Department of Transportation and the U.S. Department of Transportation Federal Highway Administration, June 1979

Civil Engineering Studies Transportation Engineering Series No. 27 Illinois Cooperative Highway and Transportation Series No. 184, Final Report Soi Water Properties of Subgrade Soils by Donald J. Janssen and Barry J. Dempsey a Report of the Investigation of Soil Water Properties of Subgrade Soils Project IHR-606 Illinois Cooperative Highway and Transportation Research Program conducted by the Transportation Research Laboratory Department of Civil Engineering, Engineering Experiment Station in cooperation with the State of Illinois Department of Transportation and the U.S. Department of Transportation Federal Highway Administration, April 1980

Civil Engineering Studies Transportation Engineering Series No. 28 Illinois Cooperative Highway Research Program Series No. 185, Evaluation of Maintenance/Rehabilitation Alternatives for Continuously Reinforced Concrete Pavement by Terry L. Barnett, Michael I. Darter, Ned R. Laybourne, A Report of the Investigation of termination of Optimum

Maintenance Procedures and Materials for Continuously Reinforced Concrete Pavement Project IHR-901 Illinois Cooperative Highway Research Program conducted by the Transportation Research Laboratory Department of Civil Engineering, Engineering Experiment Station in cooperation with the State of Illinois Department of Transportation and the U.S. Department of Transportation Federal Highway Administration, May 1981

Civil Engineering Studies Transportation Engineering Series No. 29 Illinois Cooperative Highway and Transportation Series No. 187, Synthesis Report D-Cracking in Portland Cement Concrete Pavements by Steven R. Thompson, Mikael P.J. Olsen, Barry J. Dempsey a Report of the Investigation of D-Cracking in Portland Cement Concrete Pavements Project IHR-413 Illinois Cooperative Highway and Transportation Research Program conducted by the Transportation Research Laboratory Department of Civil Engineering, Engineering Experiment Station in cooperation wit the State of Illinois Department of Transportation, June 1980

Civil Engineering Studies Transportation Engineering Series No. 30, Design Procedures for Soil Fabric-Aggregate Systems with Mirafi 500x Fabric by Ernest J. Barenberg, a Report of the Investigation of the Behavior of Soil-Fabric-Aggregate Systems conducted by Department of Civil Engineering, Engineering Experiment Station in cooperation with Celanese Fibers Marketing Company, October 1980

Civil Engineering Studies Transportation Engineering Serie No. 31 Illinois Cooperative Highway and Transportation Series No. 188, Nondestructive Testing of Flexible Pavements Field Testing Program Summary, Field Data Collection J.S. Dhamrait – K.W. Wicks Illinois Department of Transportation, Report Preparation by M.S. Hoffman – M.R. Thompson, University of Illinois, A Report of the Investigation of Load Response Characteristics of Flexible Pavements Project IHR-508 Illinois Cooperative Highway and Transportation Research Program, A Cooperative Investigation conducted by the State of Illinois Department of Transportation Division of Highways Bureau of Materials and Physical Research, Transportation Research Laboratory Department of Civil Engineering, Engineering Experiment Station in cooperation with the U.S. Department of Transportation Federal Highway Administration, June 1981

Civil Engineering Studies Transportation Engineering Series No. 32, Illinois Cooperative Highway and Transportation Series No. 190, Mechanistic Interpretation of Nondestructive Pavement Testing Deflections, Illinois Department of Transportation, P.G. Dierstein, Project Supervisor, J.S. Dhamrait, Project Investigator, University of Illinois M.R. Thompson, Project Supervisor, M.S. Hoffman, Project Investigator, Report Preparation by M.S. Hoffman – M.R. Thompson, University of Illinois, A Report of the Investigation of Load Response Characteristics of Flexible Pavements Project IHR-508 Illinois Cooperative Highway and Transportation Research Program, a Cooperative Investigation conducted by the State of Illinois Department of Transportation Division of Highways Bureau of Materials and Physical Research, Transportation Research Laboratory Department of Civil Engineering, Engineering Experiment Station in

cooperation with the U.S. Department of Transportation Federal Highway Administration, June 1981

Civil Engineering Studies Transportation Engineering Series No. 33 Illinois Cooperative Highway Research Program Series No. 191, Repair and Preventative Maintenance Procedures for Continuously Reinforced Concrete Pavement by Michael I. Darter, Terry L. Barnett, David J. Morrill, A Report of the Investigation of Determination of Optimum Maintenance Procedures and materials for Continuously Reinforced Concrete Pavement Project IHR-901 Illinois Cooperative Highway Research Program conducted by the Transportation Research Laboratory Department of Civil Engineering, Engineering Experiment Station in cooperation with the State of Illinois Department of Transportation and the U.S. Department of Transportation Federal Highway Administration, June 1982

Civil Engineering Studies Transportation Engineering Series No. 34 Illinois Cooperative Highway and Transportation Series No. 194, Concepts for Developing a Nondestructive Testing Based Asphalt Concrete Overlay Thickness Design Procedure, Illinois Department of Transportation, P.G. Dierstein, Project Supervisor, University of Illinois, M.R. Thompson, Project Supervisor, Report Preparation by M.R. Thompson, University of Illinois, A Report of the Investigation of Load Response Characteristics of Flexible Pavements Project IHR-508, Illinois Cooperative Highway and Transportation Research Program a Cooperative Investigation conducted by the State of Illinois Department of Transportation Division of Highways Bureau of Materials and Physical Research, Transportation Research Laboratory Department of Civil Engineering, Engineering Experiment Station in cooperation with the U.S. Department of Transportation Federal Highway Administration, June 1982

Civil Engineering Studies Transportation Engineering Series no. 35 Illinois Cooperative Highway Research Program Series No. 195, Recycling of Bituminous Shoulders: Mixture and Asphalt Evaluation by Samuel H. Carpenter a Report of the Investigation of Recycling of Bituminous Shoulders Project IHR-410 Illinois Cooperative Highway Research Program conducted by the Transportation Research Laboratory Department of Civil Engineering, Engineering Experiment Station in cooperation with the State of Illinois Department of Transportation and the U.S. Department of Transportation Federal Highway Administration, June 1982

Civil Engineering Studies Illinois Cooperative Highway and Transportation Series No. 197, Slump Loss and Freeze-Thaw Resistance of Superplasticized Concrete, Report Preparation by J.F. Young and C.L. Hwang, University of Illinois, An Interim Report on the Investigation of Slump Loss and Retempering of Superplasticized Concrete Project IHR-412, Illinois Cooperative Highway and Transportation Program, a Cooperative Investigation conducted by the Departments of Civil Engineering and Ceramic Engineering, Engineering Experiment Station in cooperation with the State of Illinois, Illinois Department of Transportation and the U.S. Department of Transportation Federal Highway Administration, February 1983

Civil Engineering Studies Transportation Engineering Series No. 37 Illinois Cooperative Highway and Transportation Series No. 199, Final Report D-Cracking in Portland Cement Concrete Pavements by Mikael P.J. Olsen, Donald J. Janssen, Barry J. Dempsey, a Report of the Investigation of D-Cracking in Portland Cement Concrete Pavements Project IHR-413 Illinois Cooperative Highway and Transportation Research Program conducted by the Transportation Research Laboratory Department of Civil Engineering, Engineering Experiment Station in cooperation with the State of Illinois Department of Transportation, February 1983

Civil Engineering Studies Illinois Cooperative Highway and Transportation Series No. 200, Slump Loss and Retempering of Superplasticized Concrete Final Report, Report Preparation by J.F. Young, University of Illinois, An Interim Report on the Investigation of Slump Loss and Retempering of Superplasticized Concrete Project IHR-412, Illinois Cooperative Highway and Transportation Program, A Cooperative Investigation conducted by the Departments of Civil Engineering and Ceramic Engineering, Engineering Experiment Station in cooperation with the State of Illinois Department of Transportation and the U.S. Department of Transportation Federal Highway Administration, March 1983

Civil Engineering Studies Transportation Engineering Series No. 38 Illinois Cooperative Highway and Transportation Series No. 202, Structural Coefficients and Thickness Equivalency Ratios, Report Preparation by M. Gomez – M.R. Thompson, University of Illinois, A Report of the Investigation of Mechanistic Evaluation of Illinois Flexible Pavement Design Procedures Project IHR-510 Illinois Cooperative Highway and Transportation Research Program, A Cooperative Investigation conducted by the Transportation Research Laboratory Department of Civil Engineering, Engineering Experiment Station in cooperation with the State of Illinois Department of Transportation and the U.S. Department of Transportation Federal Highway Administration, June 1983

Civil Engineering Studies Transportation Engineering Series No. 39 Illinois Cooperative Highway and Transportation Series No. 203, Asphalt Q.A. Specification, Influence of Significant Material Factors and Development of a Rational Payment Schedule, Report Preparation by R.P. Elliott and M. Herrin, an Interim Report on the Investigation of Quality Assurance Specifications IHR-411 Illinois Cooperative Highway and Transportation Program, A Cooperative Investigation conducted by the Department of Civil Engineering, Engineering Experiment Station, in cooperation with the State of Illinois, Illinois Department of Transportation, June 1983

Civil Engineering Studies Transportation Engineering Series No. 40 Illinois Cooperative Highway Research Program Series No. 206, Recycling of Bituminous Shoulders: Laboratory Testing and Performance Predictions by Samuel H. Carpenter and M. Zelaya-Nunez, a report of the investigation of Recycling of Bituminous Shoulders Project IHR-410 Illinois Cooperative Highway Research Program conducted by the Transportation Research Laboratory, Department of Civil Engineering, Engineering Experiment Station in cooperation with the State of Illinois,

Department of Transportation and the U.S. Department of Transportation Federal Highway Administration, February 1985

Civil Engineering Studies Transportation Engineering Series No. 41 Illinois Cooperative Highway and Transportation Series No. 207, Mechanistic Design Concepts for Full-Depth Asphalt Concrete Pavements, Report Preparation by M. Gomez – M.R. Thompson, University of Illinois, a Report of the Investigation of Mechanistic Evaluation of Illinois, Flexible Pavement Design Procedures Project IHR-510 Illinois Cooperative Highway and Transportation Research Program, a Cooperative Investigation conducted by the Transportation Research Laboratory Department of Civil Engineering, Engineering Experiment Station, in cooperation with the State of Illinois Department of Transportation and the U.S. Department of Transportation Federal Highway Administration, August 1984

Civil Engineering Studies Transportation Engineering Series No. 42 Illinois Cooperative Highway and Transportation Series No. 208, Mechanistic Design Concepts for Conventional Flexible Pavements, Report Preparation by R.P. Elliott – M.R. Thompson, University of Illinois, a Report of the Investigation of Mechanistic Evaluation of Illinois Flexible Pavement Design Procedures Project IHR-510, Illinois cooperative Highway and Transportation Research Program, a Cooperative Investigation conducted by the Transportation Research Laboratory Department of Civil Engineering, Engineering Experiment Station in cooperation with the State of Illinois Department of Transportation and the U.S. Department of Transportation Federal Highway Administration, February 1985

An Illinois Pavement Feedback System: Feasibility and System Requirements by R.J. Roman, M.B. Snyder, M.I. Darter, M.R. Broten, an Interim Report of the Investigation of: Development and Field Testing of an Illinois Pavement Feedback System, Project IHR-517 Illinois Cooperative Highway Research Program conducted by the Department of Civil Engineering University of Illinois in cooperation with the State of Illinois Department of Transportation and U.S. Department of Transportation Federal Highway Administration, December 1985

Civil Engineering Studies Transportation Engineering Series No. 44 Illinois Cooperative Highway and Transportation Series No. 211, Final Report Predicting the Progression of D-Cracking by Donald J. Janssen, Barry J. Dempsey, James B. DuBose, Arti J. Patel, a Report of the Investigation of the Effect of AC Overlays on the Progression of D-Cracking in PCC Project IHR-417 Illinois Cooperative Highway and Transportation Research Program conducted by the Transportation Research Laboratory Department of Civil Engineering, Engineering Experiment Station in cooperation with the State of Illinois Department of Transportation and the U.S. Department o Transportation Federal Highway Administration, February 1986

Civil Engineering Studies Transportation Engineering Series No. 45 Illinois Cooperative Highway and Transportation Series No. 213, A Proposed Full-Depth Asphalt Concrete Thickness Design Procedure, Report Preparation by M.R. Thompson – K. Cation University of Illinois, A Report of the Investigation of Mechanistic Evaluation of Illinois Flexible Pavement Design

Procedures Project IHR-510 Illinois Cooperative Highway and Transportation Research Program, a cooperative investigation conducted by the Transportation Research Laboratory Department of Civil Engineering, Engineering Experiment Station in cooperation with the State of Illinois Department of Transportation and the U.S. Department of Transportation Federal Highway Administration, July 1986

Civil Engineering Studies Transportation Engineering Series No. 46 Illinois Cooperative Highway and Transportation Series No. 214, Mechanistic Design Concepts for Stabilized Base Pavements, Report Preparation by M.R. Thompson University of Illinois, a Report of the Investigation of Mechanistic Evaluation of Illinois Flexible Pavement Design Procedures Project IHR-510 Illinois Cooperative Highway and Transportation Research Program, a Cooperative Investigation conducted by the Transportation Research Laboratory Department of Civil Engineering, Engineering Experiment Station, in cooperation with the State of Illinois Department of Transportation and the U.S. Department of Transportation Federal Highway Administration, July 1986

Box 4:

Civil Engineering Studies Transportation Engineering Series No. 47 Illinois Cooperative Highway and Transportation Series No. 215, Final Report Effectiveness of Existing Rehabilitation Technique for Jointed Concrete Pavements by D. Ortiz, E.J. Barenberg, M.I. Darter, J. Darling, a Report on the Synthesis and Evaluation of the Effectiveness of Existing Rehabilitation Techniques for Jointed Concrete Pavements Project HPR-3(6) a Cooperative Highway and Transportation Research Study conducted by the Transportation Research Laboratory Department of Civil Engineering, Engineering Experiment Station in cooperation with the Department of Transportation for the Six States in FHWA Region Five and the U.S. Department of Transportation Federal Highway Administration, August 1986

Civil Engineering Studies Transportation Engineering Series No. 48 Illinois Cooperative Highway and Transportation Series No. 216, a Proposed Thickness Design Procedure for High Strength Stabilized Base (HSSB) Pavements, Report Preparation by M.R. Thompson, University of Illinois, a Report of the Investigation of Mechanistic Evaluation of Illinois Flexible Pavement Design Procedures Project IHR-510 Illinois Cooperative Highway and Transportation Research Program, a Cooperative Investigation conducted by the Transportation Research Laboratory Department of Civil Engineering, Engineering Experiment Station in cooperation with the State of Illinois Department of Transportation and the U.S. Department of Transportation Federal Highway Administration, May 1988

Civil Engineering Studies Transportation Engineering Series No. 50 Illinois Cooperative Highway Research Program Series No. 218, Evaluation of Concrete Pavements Using Nondestructive Testing Techniques by Ernest J. Barenberg, David A. Dietz, Mark L. Woods, a

Report of the Investigation of the Use of the Falling Weight Deflectometer to Evaluate Concrete Pavements Project IHR-512 Illinois Cooperative Highway Research Program conducted by the Transportation Research Laboratory Department of Civil Engineering, Engineering Experiment Station in cooperation with the State of Illinois Department of Transportation and the U.S. Department of Transportation Federal Highway Administration, May 1988

Civil Engineering Studies Transportation Engineering Series No. 51 Illinois Cooperative Highway Research Program Series No. 219, Phases III & IV Logical and Physical Design of the Illinois Pavement Feedback System Executive Summary Report by Mark E. Dwiggins, James P. Hall, Michael I. Darter, Craig L. Flowers, James B. DuBose, An Interim Report of the Investigation of: Development and Field Testing of an Illinois Pavement Feedback System, Project IHR-517 Illinois Cooperative Highway Research Program Conducted by the Department of Civil Engineering University of Illinois and the State of Illinois Department of Transportation in Cooperation with the U.S. Department of Transportation Federal Highway Administration June, 1988

Civil Engineering Studies Transportation Engineering Series No. 52 Illinois Cooperative Highway Research Program Series No. 220, Pavement Performance Analysis of the Illinois Interstate Highway System by Mark E. Dwiggins, Michael I. Darter, James P. Hall, Craig L. Flowers, James B. Dubose, Research Report 517-03, A Report of the Findings of: Development and Field Testing of an Illinois Pavement Feedback System Project IHR-517 Illinois Cooperative Highway Research Program Conducted by the Department of Civil Engineering University of Illinois and the Illinois Department of Transportation in Cooperation with the U.S. Department of Transportation Federal Highway Administration, July 1989

Civil Engineering Studies Transportation Engineering Series No. 54 Illinois Cooperative Highway Research Program Series No. 222, Analysis of Traffic Loadings on Interstate Highways in Illinois by Michael I. Darter, Ricardo A. Salsilli, Mark E. Dwiggins, Thomas Fitch, Alan Lundberg, Research Report 517-04 A Report of the findings of: Development and Field Testing of an Illinois Pavement Feedback System, Project IHR-517 Illinois Cooperative Highway Research Program Conducted by the Department of Civil Engineering University of Illinois and the Illinois Department of Transportation in Cooperation with the U.S. Department of Transportation Federal Highway Administration, Jun 1989

Civil Engineering Studies Transportation Engineering Series No. 55 Illinois Cooperative Highway and Transportation Series No. 223, A Proposed Conventional Flexible Pavement Thickness Design Procedure, Report Preparation by M.R. Thompson, T.G. LaGrow University of Illinois, A Report of the Investigation of Mechanistic Evaluation of Illinois Flexible Pavement Design Procedures Project IHR-510 Illinois Cooperative Highway and Transportation Research Program, a Cooperative Investigation conducted by the Transportation Research Laboratory Department of Civil Engineering, Engineering Experiment Station, in cooperation with the State

of Illinois Department of Transportation and the U.S. Department of Transportation Federal Highway Administration, December 1988

Civil Engineering Studies Transportation Engineering Series No. 58 Illinois Cooperative Highway Research Program Series No. 226 State-Of-The-Art Report for the Use of Corn-Based CMA to Control Snow/Ice, Report Preparation by Moreland Herrin, Edwin E. Herricks, Keith E. Johnson, Jean M. Bruney, Preliminary Study of CMA Produced from Corn as a Deicing Agent Project IHR-904 Illinois Cooperative Highway and Transportation Program, a Cooperative Investigation Conducted by the Department of Civil Engineering, Engineering Experiment Station, in cooperation with the State of Illinois Department of Transportation, March 1990

Civil Engineering Studies Transportation Engineering Series No. 59 Illinois Cooperative Highway Research Program Series No. 227, Continuously Reinforced Pavements: Punchouts and Other Distresses and Implications for Design by Dan G. Zollinger, Ernest J. Barenberg, a Report on the Development of a Proposed Mechanistic Based Design Procedure for Jointed Concrete Pavements, Project IHR-518 Illinois Cooperative Highway Research Program conducted by the Transportation Research Laboratory Department of Civil Engineering, Engineering Experiment Station in cooperation with the State of Illinois Department of Transportation and the U.S. Department of Transportation Federal Highway Administration, March 1990

Civil Engineering Studies Transportation Engineering Series No. 60 Illinois Cooperative Highway Research Program Series No. 288, Plans for Conducting a Field Study of Corn-Based Calcium Magnesium Acetate (CMA) as an Agent to Control Snow/Ice, Report Preparation by Moreland Herrin, Edwin E. Herricks, Keith E. Johnson, Preliminary Study of CMA Produced from Corn as a Deicing Agent Project IHR-904 Illinois Cooperative Highway and Transportation Program, a Cooperative Investigation Conducted by the Department of Civil Engineering, Engineering Experiment Station in cooperation with the State of Illinois Department of Transportation, April 1990

Civil Engineering Studies Transportation Engineering Series No. 61 Illinois Cooperative Highway Research Program Series No. 229, Performance of Resurfacing of JRCP and CRCP on the Illinois Interstate Highway System by Joseph W. Vespa, Kathleen T. Hall, Michael I. Darter, James P. Hall, Research Report 517-5, A Report of the Findings of: Development and Field Testing of an Illinois Pavement Feedback System, Project IHR-517 Illinois Cooperative Highway Research Program Conducted by the Department of Civil Engineering University of Illinois and the Illinois Department of Transportation in cooperation with the U.S. Department of Transportation Federal Highway Administration, June 1990

Civil Engineering Studies Transportation Engineering Series No. 62 Illinois Cooperative Highway Research Program Series No. 230, Prototype Network Pavement Management System for the Illinois Interstate Highway System by Alaeddin Mohseni, Michael I. Darter, James P. Hall, Research Report 517-6, A Report of the Findings of: Development and Field Testing of an Illinois Pavement Feedback System, Project IHR-517 Illinois Cooperative Highway Research

Program Conducted by the Department of Civil Engineering University of Illinois and the Illinois Department of Transportation in cooperation with the U.S. Department of Transportation Federal Highway Administration, August 1990

Civil Engineering Studies Transportation Engineering Series No. 63 Illinois Cooperative Highway Research Program Series No. 231, Illinois Pavement Feedback Data and Management System Final Report by Michael I. Darter, James P. Hall, Research Report 517-7F a Report of the Findings: Development and Field Testing of an Illinois Pavement Feedback System, Project IHR-517 Illinois Cooperative Highway Research Program Conducted by the Department of Civil Engineering University of Illinois and the Illinois Department of Transportation in cooperation with the U.S. Department of Transportation Federal Highway Administration, August 1990

Civil Engineering Studies Transportation Engineering Series No. 64 Illinois Cooperative Highway Research Program Series No. 232, Pavement Subbases Final Report by J.A. Crovetti, B.J. Dempsey, a Report of the Findings of : The Use of Open Graded Permeable Subbases for Pavement Design, Project IHR-525 Illinois cooperative Highway Research Program Conducted by the Department of Civil Engineering University of Illinois and the Illinois Department of Transportation in cooperation with the U.S. Department of Transportation Federal Highway Administration, May 1991

Civil Engineering Studies Transportation Engineering Series No. 65 Illinois Cooperative Highway Research Program Serie No. 233, Final Summary Report Evaluation of Concrete Pavements Using NDT Results by Ernest J. Barenberg, Katherine A. Petros, A Report of the Investigation of the use of the Falling Weight Deflectometer to Evaluate Concrete Pavements, Project IHR-512 Illinois Cooperative Highway Research Program, Conducted by the Department of Civil Engineering, Engineering Experiment Station and the Illinois Department of Transportation in cooperation with the U.S. Department of Transportation Federal Highway Administration, April 1991

Civil Engineering Studies Transportation Engineering Series No. 66 Illinois Cooperative Highway Research Program Series No. 234, Survey of Driver's Opinion About Work Zone Traffic Control on a Rural Highway by Rahim F. Benekohal, Robin L. Orloski, Asma M. Hashmi, A Report of the findings of : Investigation of Speed Control Methods in Work Zones, Project IHR-014 Illinois Cooperative Highway Research Program Conducted by the Department of Civil Engineering, Engineering Experiment Station for the Illinois Department of Transportation in cooperation with the U.S. Department of Transportation Federal Highway Administration, October 1990

Civil Engineering Studies Transportation Engineering Series No. 67 Illinois Cooperative Highway Research Program Series No. 235, Evaluation of a Radar Activated Horn System for Speed Control in Highway Maintenance Operations by Rahim F. Benekohal, Jeffrey S. Linkenheld a Report of the Findings of: Investigation of Speed Control Methods in Work Zones, Project IHR-014 Illinois Cooperative Highway Research Program Conducted by the Department

of Civil Engineering, Engineering Experiment Station for the Illinois Department of Transportation in cooperation with the U.S. Department of Transportation Federal Highway Administration, December 1990

Civil Engineering Studies Transportation Engineering Series No. 68 Illinois Cooperative Highway Research Program Series No. 236, Alternative Methods for Pavement Networks Rehabilitation Management by Alaeddin Mohseni, Michael I. Darter, James P. Hall, Research Report 529-1, A Report of the Findings of: Implementation of the Illinois Pavement Feedback System, Project IHR-529 Illinois Cooperative Highway Research Program conducted by the Department of Civil Engineering and the Illinois Department of Transportation in cooperation with the U.S. Department of Transportation Federal Highway Administration, May 1992

Civil Engineering Studies Transportation Engineering Series No. 70 Illinois Cooperative Highway Research Program Series No. 237, Evaluation and Summary of Studies in Speed Control Methods in Work Zones by Rahim F. Benekohal, Lynn M. Kastel, Mohamed I. Suhale, a Report of the Findings of: Investigation of Speed Control Methods in Work Zones, Project IHR-014 Illinois Cooperative Highway Research Program conducted by the Department of Civil Engineering University of Illinois for the Illinois Department of Transportation in cooperation with the U.S. Department of Transportation Federal Highway Administration, February 1992

Civil Engineering Studies Transportation Engineering Series no. 71 Illinois Cooperative Highway Research Program Series No. 238, Speed Reduction Effects of Drone Radar in Rural Interstate Work Zones by Rahim F. Benekohal, Paulo T. V. Resende, Weixiong Zhao, A Report of the Findings of: Investigation of Speed Control Methods in Work Zones, Project IHR-014 Illinois Cooperative Highway Research Program, Conducted by the Department of Civil Engineering University of Illinois for the Illinois Department of Transportation in cooperation with the U.S. Department of Transportation Federal Highway Administration, March 1992

Civil Engineering Studies Transportation Engineering Series No. 72 Illinois Cooperative Highway Research Program Series No. 239, Speed Reduction Effects of Changeable Message Signs in a Construction Zone by Rahim F. Benekohal, Jie Shu, A Report of the findings of: Investigation of Speed Control Methods in Work Zones, Project IHR-014 Illinois Cooperative Highway Research Program, Conducted by the Department of Civil Engineering University of Illinois for the Illinois Department of Transportation in cooperation with the U.S. Department of Transportation Federal Highway Administration, April 1992

Civil Engineering Studies Transportation Engineering Series No. 73 Illinois Cooperative Highway Research Program Series No. 240, Effects of Police Presence on Speed in a Highway Work Zone: Circulating Marked Police Car Experiment by Rahim F. Benekohal, Paulo T. V. Resende, Robin L. Orloski, A Report of the Findings of : Investigation of Speed Control Methods in Work Zones, Project IHR-014 Illinois Cooperative Highway Research Program, Conducted by the Department of Civil Engineering University of Illinois at Urbana-Champaign for the

Department of Transportation in cooperation with the U.S. Department of Transportation Federal Highway Administration, May 1992

Civil Engineering Studies Transportation Engineering Series no. 74 Illinois Cooperative Highway Research Program Series no. 241, Speed Reduction Profiles of Vehicles in a Highway Construction Zone by Rahim F. Benekohal, Li Wang, Robin L. Orloski, Lynn M. Kastel, a Report of the findings of: Investigation of Speed Control Methods in Work Zones, Project IHR-014 Illinois Cooperative Highway Research Program conducted by the Department of Civil Engineering University of Illinois for the Illinois Department of Transportation in cooperation with the U.S. Department of Transportation Federal Highway Administration, June 1992

Civil Engineering Studies Transportation Engineering Series No. 75 Illinois Cooperative Highway Research Program Series No. 242, Evaluation of Work Zone Speed Limit Signs with Strobe Lights by Rahim F. Benekohal, Jie Shu, A Report of the findings of: Investigation of Speed Control Methods in Work Zones, Project IHR-014 Illinois Cooperative Highway Research Program conducted by the Department of Civil Engineering University of Illinois for the Illinois Department of Transportation in cooperation with the U.S. Department of Transportation Federal Highway Administration, June 1992

Civil Engineering Studies Transportation Engineering Series No. 76 Illinois Cooperative Highway Research Program Series No. 243, Speed Reduction Methods and Studies in Work Zones: A Summary of Findings by Rahim F. Benekohal Final Report on Investigation of Speed Control Methods in Work Zones, Project IHR-014 Illinois Cooperative Highway Research Program conducted by the Department of Civil Engineering University of Illinois for the Illinois Department of Transportation in cooperation with the U.S. Department of Transportation Federal Highway Administration, September 1992

Civil Engineering Studies Transportation Engineering Series No. 77 Illinois Cooperative Highway Research Program Series No. 244, Performance of Bare and Resurfaced JRCP and CRCP on the Illinois Interstate Highway System – 1991 Update by Kathleen T. Hall, Michael I. Darter, W. Max Rexroad, Research Report 532-1, A Report of the Findings of: Rehabilitation of Asphalt-Overlaid Concrete Pavements, Project IHR-532 Illinois Cooperative Highway Research Program conducted by the Department of Civil Engineering University of Illinois for the Illinois Department of Transportation in cooperation with the U.S. Department of Transportation Federal Highway Administration, October 1993

Civil Engineering Studies Transportation Engineering Series No. 84 Illinois Cooperative Highway Research Program Series no. 250, Development of Pavement Prediction Models by Ying-Haur Lee, Michael I. Darter, Research Report 529-2, A Report of the Findings of: Implementation of the Illinois Pavement Feedback System, Project IHR-529 Illinois Cooperative Highway Research Program conducted by the Department of Civil Engineering University of Illinois and the Illinois Department of Transportation in cooperation with the U.S. Department of Transportation Federal Highway Administration, July 1994

Civil Engineering Studies Transportation Engineering Series No. 85 Illinois Cooperative Highway Research Program Series No. 251, Forecasting Pavement Rehabilitation Needs for the Illinois Interstate Highway Systems by Kathleen T. Hall, Ying-Haur Lee, Michael I. Darter, David L. Lippert, Research Report 529-3, A Report of the Findings of: Implementation of the Illinois Pavement Feedback System, Project IHR-529 Illinois Cooperative Highway Research Program conducted by the Department of Civil Engineering University of Illinois and the Illinois Department of Transportation in cooperation with the U.S. Department of Transportation Federal Highway Administration, April 1994

Civil Engineering Studies Transportation Engineering Series No. 86 Illinois Cooperative Highway Research Program Series No. 252, Institutional Issues in Application of IVHS Technologies to CVO in Illinois by Charles J. Wienrank, Rahim F. Benekohal, Final Report on Institutional Barriers in Application of IVHS Technologies to CVO in Illinois, Project IHR-029 Illinois Cooperative Highway Research Program Conducted by the Department of Civil Engineering University of Illinois for the Illinois Department of Transportation in cooperation with the U.S. Department of Transportation Federal Highway Administration, June 1994

Civil Engineering Studies Transportation Engineering Series No. 87 Illinois Cooperative Highway and Transportation Series No. 253, The Livingston County Test Project an Aggregate Base Study, Report Preparation by M.R. Thompson, K.D. Hall, University of Illinois, a Report of the Investigation of Mechanistic Design for Local Roads, Project IHR-527 Illinois Cooperative Highway and Transportation Research Program a cooperative investigation conducted by the Department of Civil Engineering University of Illinois in cooperation with the State of Illinois Department of Transportation and the Livingston County Highway Department, July 1993

Civil Engineering Studies Transportation Engineering Series No. 92 Illinois Cooperative Highway and Transportation Series no. 258, Final Report Analysis of Truck Drivers' Opinions on Safety and Traffic Control on Highway Work Zones, Volume I. Summary of Findings by Rahim F. Benekohal, Eunjae Shim, Paulo T.V. Resende, a Cooperative Investigation Conducted by the Department of Civil Engineering University of Illinois at Urbana-Champaign, in Cooperation with the State of Illinois Department of Transportation, December 1995

Civil Engineering Studies Transportation Engineering Series No. 93 Illinois Cooperative Highway and Transportation Series No. 259, Final Report Analysis of Truck Drivers' Opinions on Safety and Traffic Control on Highway Work Zones Vol. II by Rahim F. Benekohal, Paulo T.V. Resende, Eunjae Shim, a Cooperative Investigation conducted by the Department of Civil Engineering University of Illinois at Urbana-Champaign, in Cooperation wit the State of Illinois Department of Transportation, December 1995

Civil Engineering Studies Transportation Engineering Series No. 94 Illinois Cooperative Highway and Transportation Series No. 260, Interlayer Stress Absorbing Composite (ISAC) for Mitigating Reflection Cracking in Asphalt Concrete Overlays Final Report by M.T. Mukhtar, B.J. Dempsey, A Report of the Findings of: The Mitigation of Reflection Cracking in Asphalt

Concrete Overlays, Project IHR-533 Illinois Cooperative Highway Research Program Conducted by Department of Civil Engineering University of Illinois and the Illinois Department of Transportation in cooperation with the U.S. Department of Transportation Federal Highway Administration, June 1996

Civil Engineering Studies Transportation Engineering Series No. 95 Illinois Cooperative Highway and Transportation Series No. 261, Performance of Original and Resurfaced Pavements on the Illinois Freeway System by Nasir G. Gharaibeh, Michael I. Darter, Francesca LaTorre, Joseph W. Vespa, David L. Lippert, Research Report 540-1, A Report of the Findings of: Enhancements to Illinois Pavement Management, Project IHR-540 Illinois Cooperative Highway Research Program, Conducted by the Department of Civil Engineering University of Illinois and the Illinois Department of Transportation in cooperation with the U.S. Department of Transportation Federal Highway Administration, February 1997

Civil Engineering Studies Transportation Engineering Series No. 96 Illinois Cooperative Highway and Transportation Series No. 262, Mechanistic-Empirical Evaluation of the Mn/Road Low Volume Road Test Sections, Report Preparation by N. Garg, M.R. Thompson Cooperative Evaluation of Mn/Road Test Results to Illinois Conditions, Project IHR-535 Illinois Cooperative Highway and Transportation Research Program, A Cooperative Investigation Conducted by the Transportation Research Laboratory Department of Civil Engineering, Engineering Experiment Station in cooperation with the State of Illinois Department of Transportation and the Minnesota Department of Transportation Mn/Road Research Project and the U.S. Department of Transportation Federal Highway Administration, May 1998

Civil Engineering Studies Transportation Engineering Series No. 97 Illinois Cooperative Highway and Transportation Series No. 263, Mechanistic-Empirical Evaluation of the Mn/Road Mainline Flexible Pavement Sections Report Preparation by C. Alvarez, M.R. Thompson, Cooperative Evaluation of Mn/Road Test Results to Illinois Conditions, Project IHR-535 Illinois Cooperative Highway and Transportation Research Program a cooperative investigation conducted by the Transportation research Laboratory Department of Civil Engineering, Engineering Experiment Station in cooperation with the State of Illinois Department of Transportation and the Minnesota Department of Transportation Mn/Road Research Project and the U.S. Department of Transportation Federal Highway Administration, June 1998

Box 5:

Civil Engineering Studies Transportation Engineering Series No. 121 Traffic Operations Lab Series no. 6, A Comparison Between the Turn on and Turn Off Characteristics of Incandescent and LED Traffic Signal Modules by Rahim F. Benekohal, Montt Girianna, Madhav V. Chitturi, a Study Conducted by Traffic Operations Laboratory Department of Civil and Environmental Engineering Prepared for Illinois Department of Transportation, December 2003 (CD-ROM)

Civil Engineering Studies Transportation Engineering Series No. 127 Traffic Operations Lab Series No. 7, Evaluation of UPS for Intersection Traffic Signals with LEDs: Findings for Myers PB-1250PC UPS, Traffic Operations Lab Series No. 8 Evaluation of UPS for Intersection Traffic Signals with LEDs: Findings for Alpha Novus 1000 UPS, Traffic Operations Lab Series No. 9 Evaluation of UPS for Intersection Traffic Signals with LEDs: Findings for TechPower M 1000 UPS by Madhav V. Chitturi, Rahim F. Benekohal, A Study Conducted by Traffic Operations Laboratory Department of Civil and Environmental Engineering prepared for Illinois Department of Transportation, December 2003 (CD-ROM)

Civil Engineering Studies Transportation Engineering Series No. 130 Traffic Operations Lab Series No. 10, Analyses of the Drivers' Opinions about Railroad Grade Crossings Traffic Control Devices and Safety: Background Survey by Rahim F. Benekohal, Murat F. Aycin, a Study Report for: The Pilot Study of Advisory On-Board Vehicle Warning Systems at Railroad Grade Crossings, a study conducted by Department of Civil and Environmental Engineering University of Illinois at Urbana-Champaign, Prepared for Illinois Department of Transportation ITS Program Office, March 2004 (CD-ROM)

Evaluation of Three Recent Models of UPS For Intersection Traffic Signals with LEDs by Madhav V. Chitturi, Rahim F. Benekohal, Civil Engineering Studies, Transportation Engineering Series No. 139, July 2005 (CD-ROM)

Civil Engineering Studies Transportation Engineering Series no. 98 Illinois Cooperative Highway and Transportation Series no. 265, Fatigue of Concrete Beams and Slabs, Report Preparation by J.R. Roesler, E.J. Barenberg, Cooperative Evaluation of Mn/Road Test Results to Illinois Conditions, Project IHR-535 Illinois Cooperative Highway and Transportation Research Program a Cooperative Investigation conducted by the Transportation Research Laboratory Department of Civil Engineering, Engineering Experiment Station in cooperation with the State of Illinois Department of Transportation and the Minnesota Department of Transportation Mn/Road Research Project and the U.S. Department of Transportation Federal Highway Administration, June 1998

Civil Engineering Studies Transportation Engineering Series No. 99 Illinois Cooperative Highway and Transportation Series No. 266, Work Zones and their Impact on User Costs by Ghulam H. Bham, James E. Hicks, a Report of the Findings of: Enhancements to Illinois Pavement Management, Project IHR-540 Illinois Cooperative Highway Research Program, Conducted by Department of Civil Engineering and the Illinois Department of Transportation in cooperation with the U.S. Department of Transportation Federal Highway Administration, March 1999

Civil Engineering Studies Transportation Engineering Series No. 100 Illinois Cooperative Highway and Transportation Series No. 267, Evaluation and Improvement of the CRS Prediction Models by Nasir G. Gharaibeh, Michael I. Darter, Laura B. Heckel, A Report of the Findings of: Enhancements to Illinois Pavement Management, Project IHR-540 Illinois Cooperative Highway

Research Program, conducted by Department of Civil Engineering and the Illinois Department of Transportation in cooperation with the U.S. Department of Transportation Federal Highway Administration, March 1999

Civil Engineering Studies Transportation Engineering Series No. 101 Illinois Cooperative Highway and Transportation Series No. 268, Field Performance of Continuously Reinforced Concrete Pavement in Illinois by Nasir G. Gharaibeh, Michael I. Darter, Laura B. Heckel, a Report of the Findings of: Enhancements to Illinois Pavement Management, Project IHR-540 Illinois Cooperative Highway Research Program, Conducted by Department of Civil Engineering and the Illinois Department of Transportation in cooperation with the US. Department of Transportation Federal Highway Administration, March 1999

Civil Engineering Studies Transportation Engineering Series No. 102 Illinois Cooperative Highway and Transportation Series No. 269, Interstate 80 Pavement Rehabilitation Corridor Study by Cynthia J. Wilson, Michael I. Darter, A Report of the Findings of: Enhancements to Illinois Pavement Management, Project IHR-540 Illinois Cooperative Highway Research Program conducted by Department of Civil Engineering and the Illinois Department of Transportation in cooperation with the U.S. Department of Transportation Federal Highway Administration, March 1999

Civil Engineering Studies Transportation Engineering Series No. 103 Illinois Cooperative Highway and Transportation Series No. 270, Drivers Assessment of High Speed AVI/WIM System at a Weight Station in Illinois by Rahim F. Benekohal, Courtney M. Tirums, Stanley L. Wang, Earl R. Forrler, a Study Report on Evaluation of Automatic Vehicle Identification in a Weigh-in-Motion System for CVO-IHR 028 prepared for the Illinois Department of Transportation, Department of Civil and Environmental Engineering, January 31, 2000

Civil Engineering Studies Transportation Engineering Series No. 109 Illinois Cooperative Highway and Transportation Series no. 276, Effect of Flat and Elongated Coarse Aggregate on Characteristics of Gyratory Compacted Samples by William R. Vavrik, Randy J. Fries, Samuel H. Carpenter, Brian D. Aho, project IHR-R22 Illinois Cooperative Highway Research Program, conducted by the Advanced Transportation Research and Engineering Laboratory Department of Civil and Environmental Engineering in cooperation with the State of Illinois Department of Transportation and USDOT FHWA

Civil Engineering Studies Transportation Engineering Series No. 110 Illinois Cooperative Highway and Transportation Series No. 277, Effects of Short Term Oven Aging on Volumetrics and Selection of N-Design by Bradley J. McMulen, William R. Vavrik, Samuel H. Carpenter, A report of the findings of: SHRP Asphalt Testing for Performance Specifications, Project IHR-R22 Illinois Cooperative Highway Research Program conducted by the Advanced Transportation Research and Engineering Laboratory Department of Civil and Environmental Engineering in cooperation with the State of Illinois Department of Transportation and USDOT FHWA, October 2000

Civil Engineering Studies Transportation Engineering Series No. 111 Illinois Cooperative Highway and Transportation Series No. 278, Video Image Analysis of Aggregates by Erol Tutumluer, Chetana Rao, Joseph A. Stefanski, a study report on Evaluation of Corase Aggregate Shape and Size Properties Using Video Imaging Prepared for the Illinois Department of Transportation, the Federal Highway Administration, Department of Civil and Environmental Engineering, July 2000

Civil Engineering Studies Transportation Engineering Series No. 118 Illinois Cooperative Highway and Transportation Series no. 281, Test to Failure of a 54 ft. Deteriorated Pretensioned Precast Concrete Deck Beam by Neil M. Hawkins, Juan B. Fuentes, Project IHR-2 Illinois Cooperative Highway Research Program conducted by the Department of Civil and Environmental Engineering and the Illinois Department of Transportation, May 2002

Civil Engineering Studies Transportation Engineering Series No. 121 Traffic Operations Lab Series No. 6, A Comparison Between the Turn On and Turn Off Characteristics of Incandescent and LED Traffic Signal Modules by Rahim F. Benekohal, Montty Girianna, Madhav V. Chitturi, a Study Conducted by Traffic Operations Laboratory Department of Civil and Environmental Engineering, Prepared for Illinois Department of Transportation, December 2003

Civil Engineering Studies Transportation Engineering Series No. 123 Illinois Cooperative Highway and Transportation Series No. 284, Field Evaluation of Asphalt Concrete Overlays on Concrete Pavements by Brian Garkie and Samuel H. Carpenter, A Report of the Findings of Enhancements to Illinois Pavement Management Project IHR-R26 Illinois Cooperative Highway Research Program Conducted by the Department of Civil and Environmental Engineering and the Illinois Department of Transportation in cooperation wit the U.S. Department of Transportation Federal Highway Administration, July 2002

Civil Engineering Studies Transportation Engineering Series No. 124 Illinois Cooperative Highway and Transportation Series no. 285, Structural Condition Assessment and Service Load Performance of Deteriorated Pretensioned Deck Beam Bridges by Neil M. Hawkins, Ph.D. Professor of Civil and Environmental Engineering and Juan B. Fuentes, Ph.D. Former Graduate Student in Structural Engineering, Issued as report to Illinois Department of Transportation as part of Research Conducted Under Illinois Cooperative Highway Research Program Project IHR-25, May 2003

Civil Engineering Studies Transportation Engineering Series No. 125 Illinois Cooperative Highway and Transportation Series No. 286, GIS-ILLINET Version 2.0 Pavement Management and Information System User's Guide by Ghulam H. Bham, Nasir G. Gharaibeh, Michael I Darter, a report of the findings of Enhancements to Illinois Pavement Management, Project IHR-R24 Illinois Cooperative Highway Research Program conducted by the Department of Civil and Environmental Engineering and the Illinois Department of Transportation in cooperation with the U.S. Department of Transportation Federal Highway Administration, June 2003

Civil Engineering Studies Transportation Engineering Series no. 127 Traffic operations Lab Series No. 7, Evaluation of UPS for Intersection Traffic Signals with LEDs: Findings for Myers PB-1250PC UPS by Madhav V. Chitturi, Rahim F. Benekohal, a Study Conducted by Traffic Operations Laboratory Department of Civil and Environmental Engineering, Prepared for Illinois Department of Transportation December 2003

Civil Engineering Studies Transportation Engineering Series No. 128 Traffic Operations Lab Series No. 8, Evaluation of UPS for Intersection Traffic Signals with LEDS: Findings for Alpha Novus 1000 UPS by Madhav V. Chitturi, Rahim F. Benekohal, a study conducted by Traffic Operations Laboratory Department of Civil and Environmental Engineering prepared for Illinois Department of Transportation, December 2003

Civil Engineering Studies Transportation Engineering Series No. 129 Traffic Operations Lab Series no. 9, Evaluation of UPS for Intersection Traffic Signals with LED: Findings for TechPower M 1000 UPS by Madhav V. Chitturi, Rahim F. Benekohal, a study conducted by Traffic Operations Laboratory prepared for Illinois Department of Transportation, December 2003

Civil Engineering Studies Transportation Engineering Series No. 130 Traffic Operations Lab Series No. 10, Analyses of Drivers' Opinions about Railroad Grade Crossings Traffic Control Devices and Safety: Background Survey by Rahim F. Benekohal, Murat F. Aycin, A Study Report for: The Pilot Study of Advisory On-Board Vehicle Warning Systems at Railroad Grade Crossings, a Study Conducted by: Department of Civil and Environmental Engineering prepared for: Illinois Department of Transportation, ITS Program Office, March 2004

Civil Engineering Studies Transportation Engineering Series no. 131 Traffic Operations Lab Series No. 11, Analyses of Drivers' Responses to In-Vehicle Receiver (IVR) after Experiencing One Mode of Operation by Rahim F. Benekohal, Carmen G. Rawls, A Study Report for: The Pilot Study of Advisory On-Board Vehicle Warning Systems at Railroad Grade Crossings, a study conducted by Department of Civil and Environmental Engineering University of Illinois, Prepared for Illinois Department of Transportation ITS Program Office, March 2004

Civil Engineering Studies Transportation Engineering Series No. 131 Traffic Operations Lab Series No.11, Analyses of Drivers' Responses to In-Vehicle Receiver (IVR) after Experiencing One mode of Operation by: Rahim F. Benekohal, Carmen G. Rawls, A Study Report for: The Pilot Study of Advisory On-Board Vehicle Warning Systems at Railroad Grade Crossings, a study conducted by: Department of Civil and Environmental Engineering prepared for Illinois Department of Transportation ITS Program Office, March 2004

Civil Engineering Studies Transportation Engineering Series No. 132 Traffic Operations Lab Series No. 12, Analyses of Drivers' Responses to In-Vehicle Receiver (IVR) after Experiencing Two Modes of Operation by Rahim F. Benekohal and Carmen G. Rawls, a study report for the Pilot Study of Advisory On-Board Vehicle Warning Systems at Railroad Grade Crosings, a Study

Conducted by: Department of Civil and Environmental Engineering prepared for: Illinois Department of Transportation ITS Program Office, March 2004

Civil Engineering Studies Transportation Engineering Series No. 132 Traffic Operations Lab Series No. 12, Analyses of the Drivers' Responses to In-Vehicle Receiver (IVR) after Experiencing Two Modes of Operation by Rahim F. Benekohal, Carmen G. Rawls, A Study Report for: The Pilot Study of Advisory On-Board Vehicle Wrning Systems at Railroad Grade Crossings, a study conducted by Department of Civil and Environmental Engineering prepared for Illinois Department of Transportation ITS Program Office, March 2004 (CD-ROM)

Civil Engineering Studies Transportation Engineering Series No. 133 Traffic Operations Lab Series no. 13, Analyses of the Drivers' Responses in Final Surveys to the In-Vehicle Receiver (IVR) by Rahim F. Benekohal, Carmen G. Rawls, a study report for: The Pilot Study of Advisory On-Board Vehicle Warning Systems at Railroad Grade Crossings, a study conducted by Department of Civil and Environmental Engineering, prepared for Illinois Department of Transportation ITS Program Office, March 2004 (CD-ROM)

Civil Engineering Studies Transportation Engineering Series No. 133 Traffic Operations Lab Series no. 13, Analyses of the Drivers' Responses in Final Surveys to the In-Vehicle Receiver (IVR) by Rahim F. Benekohal, Carmen G. Rawls, a study report for: The Pilot Study of Advisory On-Board Vehicle Warning Systems at Railroad Grade Crossings, a study conducted by Department of Civil and Environmental Engineering, prepared for Illinois Department of Transportation ITS Program Office, March 2004

Civil Engineering Studes Transportation Engineering Series no. 132 Traffic Operations Lab Series no. 14, Finds of Focus Group Meetings for the Pilot Study of Advisory On-Board Vehicle Warning Systems at Railroad Grade Crossings by Rahim F. Benekohal, a Study Report for: The Pilot Study of Advisory On-Board Vehicle Warning Systems at Railroad Grade Crossings, a study conducted by Department of Civil and Environmental Engineering prepared for Illinois Department of Transportation ITS Program Office, June 2004 (CD-ROM)

Civil Engineering Studes Transportation Engineering Series no. 132 Traffic Operations Lab Series no. 14, Finds of Focus Group Meetings for the Pilot Study of Advisory On-Board Vehicle Warning Systems at Railroad Grade Crossings by Rahim F. Benekohal, a Study Report for: The Pilot Study of Advisory On-Board Vehicle Warning Systems at Railroad Grade Crossings, a study conducted by Department of Civil and Environmental Engineering prepared for Illinois Department of Transportation ITS Program Office, June 2004

Civil Engineering Studies Transportation Engineering Series No. 135 Illinois Cooperative Highway and Transportation Series no. 288, Performance Evaluation of Longitudinal Pipe Underdrains by Jeffrey S. Stein, Barry J. Dempsey, a Report on the Investigation of Methods to Improve Pipe Underdrain Performance in Illinois Project IHR-R25 Illinois Cooperative Highway and Transportation Research Program, a Cooperative Investigation Conducted by the

Transportation Research Laboratory Department of Civil and Environmental Engineering Experiment Station, in cooperation with the State of Illinois Department of Transportation and the U.S. Department of Transportation Federal Highway Administration, November 2004 (CD-ROM)

Civil Engineering Studies Transportation Engineering Series No. 135 Illinois Cooperative Highway and Transportation Series no. 288, Performance Evaluation of Longitudinal Pipe Underdrains by Jeffrey S. Stein, Barry J. Dempsey, a Report on the Investigation of Methods to Improve Pipe Underdrain Performance in Illinois Project IHR-R25 Illinois Cooperative Highway and Transportation Research Program, a Cooperative Investigation Conducted by the Transportation Research Laboratory Department of Civil and Environmental Engineering Experiment Station, in cooperation with the State of Illinois Department of Transportation and the U.S. Department of Transportation Federal Highway Administration, November 2004

Civil Engineering Studies Transportation Engineering Series No. 136 Traffic Operations Lab Series no. 15, GIS-Based Intersection Inventory System (GIS-IIS): Integrating GIS, Traffic Signal Data and Intersection Images by Dazhi Sun, Rahim F. Benekohal, and Montty Girianna, a Study Conducted by Traffic Operations Laboratory Department of Civil and Environmental Engineering prepared for Illinois Department of Transportation, February 2005

Civil Engineering Studies Transportation Engineering Series No. 136 Traffic Operations Lab Series no. 15, GIS-Based Intersection Inventory System (GIS-IIS): Integrating GIS, Traffic Signal Data and Intersection Images by Dazhi Sun, Rahim F. Benekohal, and Montty Girianna, a Study Conducted by Traffic Operations Laboratory Department of Civil and Environmental Engineering prepared for Illinois Department of Transportation, February 2005 (CD-ROM)

Survey Research, Vol. 36, No. 1, 2005, Newsletter From the Survey Research Laboratory, College of Urban Planning and Public Affairs – University of Illinois at Chicago, Network Sampling Developments in Survey Research During the Past 40+ Years, Monroe G. Sirken, National Center for Health Statistics

Civil Engineering Studies Transportation Engineering Series No. 137, Investigation of Aggregate Shape Effects on Hot Mix Performance Using an Image Analysis Approach by Erol Tutumluer, Tongyan Pan, and Samuel H. Carpenter, a Final Study Report on the Transportation Pooled Fund Study TPF-5 (023) Prepared for The Federal Highway Administration Department of Civil and Engineering, February 2005 (CD-ROM)

Civil Engineering Studies Transportation Engineering Series No. 137, Investigation of Aggregate Shape Effects on Hot Mix Performance Using an Image Analysis Approach by Erol Tutumluer, Tongyan Pan, and Samuel H. Carpenter, a Final Study Report on the Transportation Pooled Fund Study TPF-5 (023) Prepared for The Federal Highway Administration Department of Civil and Engineering, February 2005

Civil Engineering Studies Transportation Engineering Series No. 139 Traffic Operations Lab Series No. 16, Evaluation of Three Recent Models of UPS for Intersection Traffic Signals with LEDs by Madhav V. Chitturi and Rahim F. Benekohal, A Study Conducted by Traffic Operations Laboratory Department of Civil and Environmental Engineering, Prepared for Illinois Department of Transportation, July 2005

Civil Engineering Studies Transportation Engineering Series No. 140 Traffic Operations Lab Series No. 17, Effect of High and Low Temperatures on UPS Systems for Intersection Traffic Signals by Rahim F. Benekohal, Madhav V. Chitturi, a study Conducted by Traffic Operations Laboratory Department of Civil and Environmental Engineering, Prepared for Illinois Department of Transportation, September 2005 (CD-ROM)

Civil Engineering Studies Transportation Engineering Series No. 140 Traffic Operations Lab Series No. 17, Effect of High and Low Temperatures on UPS Systems for Intersection Traffic Signals by Rahim F. Benekohal, Madhav V. Chitturi, a study Conducted by Traffic Operations Laboratory Department of Civil and Environmental Engineering, Prepared for Illinois Department of Transportation, September 2005

Civil Engineering Studies Transportation Engineering Series no. 142 Traffic Operations Lab Series No. 18, High Tension Cable Median Barrier: A Scanning Tour Report by Juan C. Medina, Rahim F. Benekohal, a Study Conducted by Department of Civil and Environmental Engineering prepared for Illinois Department of Transportation ITS Program Office, January 2006 (CD-ROM)

Civil Engineering Studies Transportation Engineering Series No. 142 Traffic Operations Lab Series no. 18, High Tension Cable Median Barrier: A Scanning Tour Report by Juan C. Medina, Rahim F. Benekohal, A Report Prepared by Traffic Operations Laboratory Department of Civil and Environmental Engineering, Prepared for Illinois Department of Transportation, January 2006

Civil Engineering Studies Illinois Center for Transportation Series No. 07-001, UILU-ENG-2007-2004, ISSN: 0197-9191, Reclaimed Asphalt Pavement- A Literature Review by Imad L. Al-Qadi University of Illinois at Urbana-Champaign, Mostafa Elseifi Bradley University, Samuel H. Carpenter University of Illinois at Urbana-Champaign, Research Report FHWA-ICT-07-001, a Report of the Findings of ICT R27-11 Determination of Usable Residual Asphalt Binder in RAP, Illinois Center for Transportation, March 2007 (CD-ROM)

Civil Engineering Studies Illinois Center for Transportation Series No. 07-001, UILU-ENG-2007-2004, ISSN: 0197-9191, Reclaimed Asphalt Pavement- A Literature Review by Imad L. Al-Qadi University of Illinois at Urbana-Champaign, Mostafa Elseifi Bradley University, Samuel H. Carpenter University of Illinois at Urbana-Champaign, Research Report FHWA-ICT-07-001, a Report of the Findings of ICT R27-11 Determination of Usable Residual Asphalt Binder in RAP, Illinois Center for Transportation, March 2007

Civil Engineering Studies Illinois Center for Transportation Series no. 07-002 UILU-ENG-2007-2005, ISSN: 0197-9191, Proceedings of the Mobile Source Air Toxics Peer Exchange Meeting prepared by Dr. Jie (Jane) Lin University of Illinois at Chicago, Wenjing Pu University of Illinois at Chicago, Walt Zyznieuski Illinois Department of Transportation, Research Report FHWA-ICT-07-002, a Report of the Findings of IHR-R27 Midwest Peer Exchange Meeting on Air Toxics in NEPA Documents, Illinois Center for Transportation, December 2006 (CD-ROM)

Civil Engineering Studies Illinois Center for Transportation Series no. 07-002 UILU-ENG-2007-2005, ISSN: 0197-9191, Proceedings of the Mobile Source Air Toxics Peer Exchange Meeting prepared by Dr. Jie (Jane) Lin University of Illinois at Chicago, Wenjing Pu University of Illinois at Chicago, Walt Zyznieuski Illinois Department of Transportation, Research Report FHWA-ICT-07-002, a Report of the Findings of IHR-R27 Midwest Peer Exchange Meeting on Air Toxics in NEPA Documents, Illinois Center for Transportation, December 2006

Civil Engineering Studies Illinois Center for Transportation Series No. 07-003 UILU-ENG-2007-2006, ISSN: 0197-9191, CVISN – CVIEW/SAFER Database Mapping Project by Pete Nelson University of Illinois Chicago, John Hayward University of Illinois Chicago, John Dillengerg University of Illinois Chicago, Research Report FHWA-ICT-07-003, a Report of the Findings of ICT R27-14 Commercial Vehicle Information Systems and Networks, Illinois Center for Transportation March 2007 (CD-ROM)

Civil Engineering Studies Illinois Center for Transportation Series No. 07-003 UILU-ENG-2007-2006, ISSN: 0197-9191, CVISN – CVIEW/SAFER Database Mapping Project by Pete Nelson University of Illinois Chicago, John Hayward University of Illinois Chicago, John Dillengerg University of Illinois Chicago, Research Report FHWA-ICT-07-003, a Report of the Findings of ICT R27-14 Commercial Vehicle Information Systems and Networks, Illinois Center for Transportation March 2007

Civil Engineering Studies Transportation Engineering Series No. 145-149, Traffic Operations Lab Series no. 19-23, February 2007, Analysis of Pedestrians and Drivers Opinions on Crosswalk Safety at UIUC Campus, Vol. 1 and 2 by R.F. Benekohal, J.C. Medina, M.H. Wang, K. Moroni, C.D. Roberts, L. Wingo. Crosswalk Signing and Marking Effects on Conflicts and pedestrian Safety in UIUC Campus by R.F. Benekohal, M.H. Wang, J.C. Medina. Crosswalk Safety Study for UIUC Campus: Executive Summary by R.F. Benekohal, J.C. Medina, J. Rodriguez, M.H. Wang. Pedestrian Safety on Campus Crosswalks in Big Ten Universities by J. Rodriguez, J.C. Medina, R.F. Benekohal, R. Black, M.H. Wang (CD-ROM) Duplicate of Material in 11/5/828

Civil Engineering Studies Illinois Center for Transportation Series No. 07-004 UILU-ENG-2007-2007, ISSN: 0917-9191, Assessment of the Seismic Vulnerability of Wall Pier Supported highway Bridges on Priority Emergency Routes in Southern Illinois by John L. Bignell University of Illinois at Urbana-Champaign, James M. LaFave University of Illinois at Urbana-Champaign, Neil Hawkins, University of Illinois at Urbana-Champaign, Research Report

FHWA-ICT-07-004, a Report of the Findings of ICT/IHR-R36, Illinois Center for Transportation, April 2006 (CD-ROM)

Civil Engineering Studies Illinois Center for Transportation Series No. 07-004 UILU-ENG-2007-2007, ISSN: 0917-9191, Assessment of the Seismic Vulnerability of Wall Pier Supported highway Bridges on Priority Emergency Routes in Southern Illinois by John L. Bignell University of Illinois at Urbana-Champaign, James M. LaFave University of Illinois at Urbana-Champaign, Neil Hawkins, University of Illinois at Urbana-Champaign, Research Report FHWA-ICT-07-004, a Report of the Findings of ICT/IHR-R36, Illinois Center for Transportation, April 2006

Box 6:

Illinois Center for Transportation, Best Practices for Bicycle Trail Pavement Construction and Maintenance in Illinois, prepared by David Simpson, William Buttlar, Barry Dempsey, University of Illinois at Urbana-Champaign, A report of the findings of ICT-R27-SP18 Developing Best Practices for Bicycle Trail Pavement Construction & Maintenance in Illinois, Research Report ICT-R27-SP18, Illinois Center for Transportation June 2012 (CD-ROM)

Illinois Center for Transportation, Best Practices for Bicycle Trail Pavement Construction and Maintenance in Illinois, prepared by David Simpson, William Buttlar, Barry Dempsey, University of Illinois at Urbana-Champaign, A report of the findings of ICT-R27-SP18 Developing Best Practices for Bicycle Trail Pavement Construction & Maintenance in Illinois, Research Report ICT-R27-SP18, Illinois Center for Transportation June 2012

Illinois Center for Transportation, Impact of High Rap Content on Structural and Performance Properties of Asphalt Mixtures, prepared by Imad L. Al-Qadi, Qazi Aurangzeb, Samuel H. Carpenter, University of Illinois at Urbana-Champaign, William J. Pine, Heritage Research Group, James Trepanier Illinois Department of Transportation, a report of the findings of ICT-R27-37 Impact of High RAP Content on Structural & Performance Properties of Asphalt Mixtures, Research Report ICT-R27-37, Illinois Center for Transportation, June 2012

Illinois Center for Transportation, Impact of High Rap Content on Structural and Performance Properties of Asphalt Mixtures, prepared by Imad L. Al-Qadi, Qazi Aurangzeb, Samuel H. Carpenter, University of Illinois at Urbana-Champaign, William J. Pine, Heritage Research Group, James Trepanier Illinois Department of Transportation, a report of the findings of ICT-R27-37 Impact of High RAP Content on Structural & Performance Properties of Asphalt Mixtures, Research Report ICT-R27-37, Illinois Center for Transportation, June 2012 (CD-ROM)

Illinois Center for Transportation, Best Practices for Implementation of Tack Coat: Part 1, Laboratory Study, prepared by Imad l. Al-Qadi, Khaled I. Hasiba, Alejandro Salinas Cortina,

Hasan Ozer, Zhen Leng, University of Illinois at Urbana-Champaign, Derek C. Parish, Stephen J. Worsfold, Illinois Department of Transportation, a Report of the findings of ICT-R27-100 Best Practices for Implementation of Tack Coat, Research Report ICT-R27-100, Illinois Center for Transportation July 2012 (CD-ROM)

Illinois Center for Transportation, Best Practices for Implementation of Tack Coat: Part 1, Laboratory Study, prepared by Imad l. Al-Qadi, Khaled I. Hasiba, Alejandro Salinas Cortina, Hasan Ozer, Zhen Leng, University of Illinois at Urbana-Champaign, Derek C. Parish, Stephen J. Worsfold, Illinois Department of Transportation, a Report of the findings of ICT-R27-100 Best Practices for Implementation of Tack Coat, Research Report ICT-R27-100, Illinois Center for Transportation July 2012

Illinois Center for Transportation, Improved Design for Driven Piles on a Pile Load Test Program in Illinois, Prepared by Jim Long, Andrew Anderson University of Illinois at Urbana-Champaign, A report of the findings of ICT-R27-69 Improved Design for Driven Piles Based on a Pile Load Test Program in Illinois, Research Report ICT-R27-69, Illinois Center for Transportation, July 2012 (CD-ROM)

Illinois Center for Transportation, Improved Design for Driven Piles on a Pile Load Test Program in Illinois, Prepared by Jim Long, Andrew Anderson University of Illinois at Urbana-Champaign, A report of the findings of ICT-R27-69 Improved Design for Driven Piles Based on a Pile Load Test Program in Illinois, Research Report ICT-R27-69, Illinois Center for Transportation, July 2012

Illinois Center for Transportation, Best Practices for Implementation of Tack Coat: Part 2, Field Study, Prepared By: Imad L. Al-Qadi, Alejandro Salinas Cortina, Khaled I. Hasiba, Hasan Ozer, Zhen Leng, University of Illinois at Urbana-Champaign, Enad Mahmoud, Bradley University, Derek C. Parish, Stephen J. Worsfold, Illinois Department of Transportation, A Report of the Findings of ICT-R27-100 Best Practices for Implementation of Tack Coat, Research Report ICT-R27-100, Illinois Center for Transportation, July 2012 (CD-ROM)

Illinois Center for Transportation, Best Practices for Implementation of Tack Coat: Part 2, Field Study, Prepared By: Imad L. Al-Qadi, Alejandro Salinas Cortina, Khaled I. Hasiba, Hasan Ozer, Zhen Leng, University of Illinois at Urbana-Champaign, Enad Mahmoud, Bradley University, Derek C. Parish, Stephen J. Worsfold, Illinois Department of Transportation, A Report of the Findings of ICT-R27-100 Best Practices for Implementation of Tack Coat, Research Report ICT-R27-100, Illinois Center for Transportation, July 2012