

## NCHRP 20-7 Funded Proposals, FY 2009

The following tasks were approved for NCHRP 20-7 at the Fall 2008 SCOH meeting, totaling \$605,000.

- **Task 268, SCOM Strategic Planning Workshop.** \$60,000. NCHRP Staff: Amir Hanna
  - Submitted by: Subcommittee on Maintenance – *Facilitate workshop to update mission, vision, and organizational structure for SCOM*
- **Task 269, Feasibility of Using Incentives to Facilitate Utility Relocations.** \$75,000. NCHRP Staff: David Reynaud
  - Submitted by: Subcommittee on Right of Way and Utilities – *The objectives of this research of project are to (a) document experiences State DOTs have had using incentives for utility relocations; (b) investigate how incentives have been used to accelerate other critical construction-related activities; and (c) recommend incentives State DOTs may want to consider.*
- **Task 270, Application of AASHTO LRFD Specifications to Design of Sound Barriers.** \$50,000. NCHRP Staff: David Beal
  - Submitted by: Subcommittee on Bridges and Structures – *The objective is this research is to investigate applicability of the AASHTO LRFD specifications to the design of sound barriers, and to establish guidelines for design of sound barriers.*
- **Task 271, Graphical Traffic Signal Design Aid based on the MUTCD.** \$75,000. NCHRP Staff: Ray Derr
  - Submitted by: Subcommittee on Traffic Engineering – *To graphically present signal design options in a way that makes it easier to comply with the MUTCD and as a result, promote uniformity in signal design across the U.S. and help reduce crashes at traffic signals.*
- **Task 272, Rheological Characterization of Flow Table Reference Material.** \$90,000. NCHRP Staff: Ed Harrigan
  - Submitted by: Subcommittee on Materials – *This project would determine the characteristics of the flow material using modern and material based methods.*
- **Task 273, Update of the AASHTO Policy on Geometric Design of Highways and Streets (Green Book).** \$80,000. NCHRP Staff: Chuck Niessner
  - Submitted by: Subcommittee on Design – *The primary objective of this research is to ensure that consistent and accurate technical information is incorporated throughout the update to the AASHTO Policy on Geometric Design of Highways and Streets and to produce a final draft version of the guide for formal balloting by AASHTO.*
- **Task 274, Development of a Synthesis on the Practices of and Warrants for Price Indexing Commodities by State Agencies.** \$100,000. NCHRP Staff: Andy Lemer
  - Submitted by: Subcommittee on Design / Technical Committee on Cost Estimating – *The objective of project is to develop a synthesis that will provide guidance and a base of understanding for State DOTs in the decision making process on whether or not to include contract provisions associated with commodity price indexing or cost escalation clauses.*
- **Task 275, SCOH Strategic Plan Support.** \$75,000. NCHRP Staff: Chris Hedges
  - Submitted by: Standing Committee on Highways

The following tasks were approved for NCHRP 20-7 at the Spring 2009 SCOH meeting, totaling \$640,000.

- **Task 276, Development of Guidelines for Rehabilitation of Existing highway and Rail Transit Tunnels.** \$50,000. NCHRP Staff: Waseem Dekelbab
  - Submitted by: Subcommittee on Bridges and Structures – *To develop guidelines for rehabilitation of existing highway and rail transit tunnels.*
- **Task 277, Update to AASHTO “Pavement Management Guide.”** \$50,000. NCHRP Staff: Amir Hanna
  - Submitted by: Subcommittee on Design: Technical Committee on Pavements – *A comprehensive update of the guide with consideration to the JTCOP comments, and the preparation of a revised Guide suitable for balloting and publication by AASHTO. (Additional \$50,000 promised by FHWA)*
- **Task 278, Production of the new AASHTO Practical Guide to Estimating.** \$75,000. NCHRP Staff: Andy Lemer
  - Submitted by: Subcommittee on Design: Technical Committee on Cost Estimating – *To ensure that comprehensive, consistent and timely cost estimating guidance is developed and to produce a final draft version of “A Practical guide to Estimating” for formal balloting by AASHTO as soon as possible.*
- **Task 279, Development of a Work Plan for the 2nd Edition of the Highway Safety Manual.** \$50,000. NCHRP Staff: Chuck Niessner
  - Submitted by: Subcommittee on Highway Safety Management – *To develop a work plan for the 2<sup>nd</sup> edition of the Highway Safety Manual.*
- **Task 280, AASHTO Materials Specifications.** \$90,000. NCHRP Staff: Ed Harrigan
  - Submitted by: Subcommittee on Materials – *To hire a researcher to perform review on the “C” specifications in the Materials Book to identify any needed changes.*
- **Task 281, Strategic Plan for the Development and Maintenance of AASHTO Standards by AASHTO Member Departments.** \$80,000. NCHRP Staff: Amir Hanna
  - Submitted by: Subcommittee on Materials – *Peer Exchange to develop a strategic plan that would address the issue of how AASHTO SOM develops and maintains standards through the use of voluntary members.*
- **Task 282, Research Needs Assessment for Roadside Workers and Vehicle Safety.** \$90,000. NCHRP Staff: Chuck Niessner
  - Submitted by: Subcommittee on Systems Operation and Management – *To develop a multidisciplinary, national research program to develop a framework for visibility of roadway emergency responders, workers and vehicles within emergency and work zones similar to the existing NUG framework for command and communications.*
- **Task 283, Evaluation of the Flashing Yellow Arrow (FYA) Permissive Left Turn in Shared Yellow Signal Sections.** \$100,000. NCHRP Staff: Ray Derr
  - Submitted by: Subcommittee on Traffic Engineering – *To explore the effectiveness of a three section protected/permissive left turn signal display versus for a four section signal display, containing both a flashing yellow arrow section and a steady yellow arrow change interval section, when implementing the FYA in protected/permissive left turn control.*

- **Task 284, Establish Test Methods for 100-Year Service Life for High Density Polyethylene Thermoplastic Pipe in the AASHTO LRFD Bridge Design Specifications.** \$30,000. NCHRP Staff: Ed Harrigan
  - Submitted by: Subcommittee on Bridges and Structures – *to review and revise the AASHTO LRFD Bridge Design Specifications and the AASHTO Standard Specifications for Transportation and Methods of Sampling and Testing to include materials tests to establish and classify HDPE pipe for a 100 year service life.*
- **Addition to Task 275, AASHTO SCOH Strategic Plan Continuation.** \$25,000 NCHRP Staff: Chris Hedges
  - Submitted by: Standing Committee on Highways (SCOH)