

### **2011 Traffic Sign Retroreflective Sheeting Identification Guide (SIGN-169)**

This laminated sheet is intended to help identify sign sheeting materials for rigid signs and their common specification designations. FHWA/USDOT – 2011.

### **Asset Management Guide for Local Agencies in Michigan (LTAP-138)**

The updated TAMC guide for use at the Asset Management Workshops

### **BMP for the Use of Preservative-Treated Wood in Aquatic Environments in Michigan (BRID-169)**

Intended to: 1) serve as a reference to assist designers and end users of preservative-treated timber products with selection of the proper preservative-treated timber, and, 2) help determine the best management practices for the use of preservative-treated wood in aquatic environments.

Huron Pines Res. Cons. & Dev. Area Council – March 2002

### **Bicycle Crash Types: A 1990s Informational Guide (SAFE-171)**

The research applied the basic National Highway Safety Administration (NHTSA) pedestrian and bicyclist typologies to a sample of recent crashes and then refined and updated the crash type distributions with particular attention to roadway and locational factors. University of North Carolina – April 1997.

### **Blinded By the Light? How To Handle Glare For Safer Driving At Night brochure (SAFE-242)**

Gives tips on how to fight back at nighttime glare. Also outlines how to adjust your car's lights. AAA – 2004.

### **Comprehensive Intersection Resource Library CD Version 3 (SIGN-159)**

A compilation of resources about traditional signalized and unsignalized intersections, roundabouts, highway/rail grade crossings, and other nontraditional intersection designs. FHWA-USDOT – 2006.

### **Concrete Pavement Rehabilitation Guide for Load Transfer Restoration (CONC-118)**

Load transfer restoration (LTR) is a rehabilitation technique for increasing the load transfer capability of existing jointed portland cement concrete (PCC) pavement by placement of dowel bars or other mechanical devices across joints and/or cracks that exhibit poor load transfer. US DOT – January 1997.

### **Countermeasures That Work: A Highway Safety Countermeasure Guide for State Highway Safety Offices (SAFE-193)**

This guide is a basic reference to assist State Highway Safety Offices (SHSOs) in selecting effective, science-based traffic safety countermeasures for major highway safety problem areas. The guide: describes major strategies and countermeasures that are relevant to SHSOs; summarizes their use, effectiveness, costs, and implementation time; and provides references to the most important research summaries and individual studies. The guide is not intended to be a comprehensive list of countermeasures available for State use or a list of expectations for SHSO implementation. For a description of an optimal State countermeasure program, SHSOs should refer to the Highway Safety Program Guidelines, which delineate the principal components of each of the major program areas. States should identify problem areas through systematic data collection and analysis and are encouraged to continue to apply innovation in developing appropriate countermeasures. The evaluations summarized in this guide allow SHSOs to benefit from the experience and knowledge gained by others and to select countermeasure strategies that either have proven to be effective or that have shown promise. States choosing to use innovative programs can contribute to the collective knowledge pool by carefully evaluating the effectiveness of their efforts and publishing the findings for the benefit of others. HHTSA – USDOT – January 2008.

**Deicing Salt Facts: A Quick Reference (SNOW-138)**

A 4-page multi-colored fact sheet covering common questions asked about deicing salt that include storage, environmental protection, corrosion, safety benefits, and potholes. Salt Institute – January 2000.

**Distress Identification Guide from the Long-Term Pavement Performance Program (CONC-145)**

This pocket guide is derived from the Long-Term Pavement Performance (LTPP) program's Distress Identification Manual, Fourth Revised Edition, Publication No. FHWA-RD-03-031, published in June 2003 as part of the Strategic Highway Research Program. ND LTAP – August 2005.

**Drivers 55 Plus: Check Your Own Performance-A Self-Rating Form of Questions, Facts and Suggestions for Safe Driving (SAFE-241)**

This booklet contains a questionnaire that will help older drivers become aware of areas where physical and mental abilities call for a change in driving habits and skills. AAA – 2003.

**Environmentally Sensitive Maintenance for Dirt and Gravel Roads**

The manual will provide insight into using natural systems and innovative technologies to reduce erosion, sediment and dust pollution while more effectively and efficiently maintaining dirt and gravel roads. The manual will address the environment of forests, mountainous terrain, and rolling hills. Various states already employ some of the more common practices, particularly forestry departments. These states and their local governments are prime targets for deploying the additional practices to be addressed in the practices, recognizing that not one tool can fit every situation or site or solve all their problems in maintaining their dirt and gravel roads and protecting the environment.

Pennsylvania DOT – February 2006.

**European Right of Way and Utilities Best Practices (MGMT-161)**

As right-of-way acquisition and utilities grow more complex, transportation agencies in the United States are under pressure to streamline the process of providing cleared right-of-way for highway projects. The Federal Highway Administration, the American Association of State Highway and Transportation Officials, and the National Cooperative Highway Research Program sponsored a scanning study of England, Germany, Norway and the Netherlands to review best practices in right-of-way and utilities services. FHWA – August 2002.

**FHWA Study Tour for Pedestrian and Bicyclist Safety in England, Germany, & the Netherlands (SAFE-210)**

The purpose of this report is to document the findings of a European project team visit to England, The Netherlands, and Germany, which was sponsored by FHWA and conducted on September 3-19, 1993. The report documents findings from many areas, including planning practices for pedestrians and bicyclists, roadway facilities, educational and promotional programs, traffic enforcement issues, and some of the relevant pedestrian and bicyclist research that has been conducted in these countries.

FHWA - October 1994.

**Field Manual on Sediment and Erosion Control: Best Management Practices for Contractors and Inspectors (EROS-102)**

Fifield's Field Manual is written specifically for contractors and inspectors. However, since the majority of material is from his design workbook, designers and regulators will also find it useful. The goal of this manual is to have a practical document for use in a four-hour sediment and erosion control class taught specifically for contractors and inspectors. The manual is also valuable for use on construction sites as these individuals install, inspect, and maintain best management practices.

Forester Communications – February 2002.

**A Flexibility Fitness Training Package for Improving Older Driver Performance brochure (SAFE-243)**

This brochure lists and explains exercises that were designed to improve flexibility as it relates to driving. AAA – 2003.

### **Forest Roads & The Environment Video Set (ENVI-126)**

A set of 5 videos titled, 1) Forest Roads and the Environment, 2) Reading the Traveled Way, 3) Reading Beyond the Traveled Way, 4) Smoothing and Reshaping the Traveled Way, and 5) Maintaining the Ditch and Surface Cross Drains. These videos provide an overview of how the road interacts with the surrounding environment, and highlight the techniques and benefits of proper road maintenance practices. USDA Forest Service –March 2002.

### **Gravel Roads Maintenance and Design Manual & CD (MAIN-160)**

The manual provides clear and helpful information for doing a better job of maintaining gravel roads. It presents guidelines to help answer questions about the maintenance of gravel roads and is designed for the benefit of elected officials, managers, and grader operators who are responsible for designing and maintaining gravel roads. Information provided is as nontechnical as possible without sacrificing clear guidelines and instructions on how to do the job right. SDLTAP/FHWA – November 2000.

### **Great Grader Operators Poster (LTAP-106)**

This poster includes information on operating a motor grader. It contains information on smoothing, blading, and reshaping. Michigan LTAP/Michigan DOT – May 1993.

### **Guidelines for Using Prime and Tack Coats (ASPH-212)**

Prime and tack coat guide publication developed for project development and field personnel to provide decision-making guidance on how to use, when to keep, and when to eliminate prime and tack coats. FHWA – July 2005

### **Highway Salt and Our Environment (SNOW-137)**

This booklet will explain why snowfighters use highway salt, how salt works, the effects of highway salt on the environment, infrastructure and motor vehicles, and application techniques to minimize adverse environmental impacts. Salt Institute – 2004.

### **Implementing Local Agency Safety Management (SAFE-258)**

This pamphlet answers some questions on Safety Management Systems. “A Partnership to save lives and reduce collisions on count roads and city streets.” FHWA – 2003.

### **Innovate Technology for Accelerated Construction of Bridge & Embankment Foundations in Europe (BRID-183)**

In June 2002, the FHWA, in a joint effort with AASHTO, organized a geotechnical engineering scan tour of Europe. Its purpose was to identify and evaluate innovative European technology for accelerated construction and rehabilitation of bridge and embankment foundations. This report documents the results of this scan. USDOT/FHWA – September 2003.

### **InSAR Applications for Highway Transportation Projects (MISC-171)**

This report describes the effectiveness of InSAR in monitoring ground movement, and recommends guidelines for the coordinated use of InSAR with other Federal Lands Highway Program (FLH) data collections. FHWA – April 2006

### **Intersection Safety, Roadway Departure Safety, Road Safety Information Analysis (SAFE-299)**

These three individual publications have been combined into one convenient CD.

1) Intersection Safety, a Manual for Local Road Owners - provides information on effectively identifying intersection safety issues in local areas, choosing the countermeasure that address them and evaluating the benefits of those treatments. 2) Roadway Departure Safety, A Manual for Local Road Owners - Provided information on effectively identifying roadway departure safety issues in local areas, choosing the countermeasures that address them and evaluating the benefits of those treatments. 3) Road Safety Information Analysis, A Manual for Local Road Owners - Provides data collection and analysis techniques as well as other processes applicable to the local practitioner to help improve the safety of local rural roads.

\*\* All are available in PDF at the following links\*\*

[http://safety.fhwa.dot.gov/local\\_rural/training/fhwasa1108/](http://safety.fhwa.dot.gov/local_rural/training/fhwasa1108/)

[http://safety.fhwa.dot.gov/local\\_rural/training/fhwasa1109/](http://safety.fhwa.dot.gov/local_rural/training/fhwasa1109/)

[http://safety.fhwa.dot.gov/local\\_rural/training/fhwaxx1210/lrro\\_data.pdf](http://safety.fhwa.dot.gov/local_rural/training/fhwaxx1210/lrro_data.pdf)

FHWA – January 2011.

**ITS Applications for Coordinating and Improving Human Services Transportation- A Cross Cutting: Improving Service for the Transportation Disadvantaged (MISC-166)**

This study profiles six examples of ITS technologies in use. It examines in depth the use of ITS technologies to improve transportation operations and coordination, information dissemination, fare payment, and safety and security. The study offers valuable lessons learned and keys to success in all stages of the evolution of ITS technologies: planning, design, implementation, and evaluation. FHWA – August 2006. the Severity of Run-Off-Road Crashes; Cable Median Barrier Reduces Crossover Crashes; and How Do I conduct a Crash Study? ATSSA – 2006.

**Low-Cost treatments for Horizontal Curve Safety (SAFE-281)**

Will help transportation agencies and their crews understand the alternative treatments for horizontal curve safety and how to select and apply them. FHWA – December 2006

**LTAP – Partners in Innovation: Serving Local and Tribal Governments (LTAP-130)**

Pamphlet: Describes the most direct, hands-on method the FHWA has for moving innovative transportation technologies out of the lab, off the shelf, and into the hands of the people who maintain our local, rural, and tribal streets and roads. FHWA – 1998.

**Maintenance of Drainage Features for Safety (DRAI-132)**

A Guide for Local Street and Highway Maintenance Personnel. Intended to help local road agency maintenance workers understand the importance of maintaining and upgrading drainage features on their road system. Also available in PDF: [http://safety.fhwa.dot.gov/local\\_rural/training/fhwasa09024/](http://safety.fhwa.dot.gov/local_rural/training/fhwasa09024/) FHWA/USDOT – July 2009.

**Maintenance of Signs & Sign Supports, a Guide for Local Highway & Street Maintenance Personnel (SIGN-168)**

Intended to help local agency maintenance workers ensure their agency's signs are maintained to meet the needs of the road user. Also available in PDF: [http://safety.fhwa.dot.gov/local\\_rural/training/fhwasa09025/](http://safety.fhwa.dot.gov/local_rural/training/fhwasa09025/) FHWA/USDOT – January 2010.

**Michigan Department of Transportation Bridge Construction Inspection Checklist (BRID-179)**

This booklet covers 179 points on the following topics: Foundation, unclassified foundations, and rock excavation; Cofferdam-steel sheet piling and earth dikes and/or well-point system; Foundation piling; Concrete beams (cast-in-place) and temporary supports; Pre-cast concrete beams (pre-stressed); Forming and placing superstructure concrete before the pour; and before placing parapet or barrier railing. Michigan LTAP/MDOT – 2002.

**NACE Action Guide Volume II-5 Solid Waste Management Action Guide Series (MGMT-170)**

This guide is intended to identify the basis behind and procedures for development and operation of a solid waste management program by county engineers and other officials responsible for these activities. NACE – January 1995.

**NHI Style Guide (Instructor-Led Training) CD-ROM (SPEC-131)**

Helps assure consistent presentation formats for NHI courses. Contains style guide and appendices. Style Guide addresses print, formatting, grammar, punctuation and NHI specifications. Appendices include samples of courseware, including instructor guide, participant workbook, reference manual and reference list. NHI – 2004.

**Pavement Warranty Symposium: Policy, Development, and Implementation- Final Report (ASPH-200)**

This report summarizes the findings from a symposium held in Grand Rapids, MI in May 2003. The symposium was sponsored by the Michigan Department of Transportation and three offices within the Federal Highway Administration. The Michigan Local Technical Assistance program coordinated the effort. MDOT, FHWA, MI LTAP – 2003.

**Pavement Preservation Toolbox CD: The Sequel (ASPH-213)**

A one-stop library that contains a wealth of information on cutting edge techniques and practices in pavement preservation. FHWA USDOT – June 2007.

**Pedestrian Crash Types: A 1990s Informational Guide (SAFE-170)**

This pedestrian crash type informational guide is a supplement to a research report entitled, “Pedestrian and Bicycle Crash Types of the Early 1990’s” (FHWA-RD-95-163). The purpose of the research was to apply the basic NHTSA pedestrian and bicyclist typologies to a sample of recent crashes and to refine and update the crash type distributions with particular attention to roadway and locational factors.  
U of NC – April 1997.

**Performance of Weathering Steel in Highway Bridges-A Third Phase Report (BRID-157)**

Phase - III of this project began in 1993. This included revisiting the 52 bridges that were initially inspected in 1980 as part of Phase - I. In addition to the original bridges, eleven others were added for inspection: five in Iowa; one in California; and five in Puerto Rico with two parallel bridges at each site.  
American Iron and Steel Institute – January 1995.

**Preventing Road Rage- How to Avoid Anger While Driving Brochure (SAFE-245)**

This brochure offers tips on how to avoid being the victim of a road rage attack. AAA – 2004.

**Primer: GASB 34 (FINA-111)**

This Primer on the Governmental Accounting Standards Board (GASB) Statement 34(GASB 34), was promulgated by GASB on June 15, 1999. Statement 34 calls for state, local, and municipal governments to calculate the original cost of infrastructure constructed or improved during the 20-year period prior to the Statement's issuance date in their annual financial reports. FHWA USDOT – November 2000.

**Repair and Rehabilitation of Treated Timber Bridges (BRID-178)**

This publication is written by Kenneth Johnson, P.E. of Wheeler Consolidated and was used at the 2004 Michigan Bridge Conference. The focus of this paper will be on timber bridges and those instances where treated timber would be the most appropriate material to be used for the construction procedures proposed.  
Wheeler Consolidated, Inc. – 2004.

**Retroreflective Sheeting Identification Guide (SIGN-158)**

This publication is a one-page laminated sheet. It includes photographs that show the sheeting pattern at actual size. It also has symbols that depict watermark visible on the sheeting when viewed up close.  
FHWA – September 2005.

**Roadside Revegetation: An Integrated Approach to Establishing Native Plants (ENVI-157)**

This report offers an integrated approach to facilitate the successful establishment of native plants along roadsides and other areas of disturbance associated with road modifications. It guides readers through a comprehensive process of: 1) Initiating, 2) Planning, 3) implementing, and 4) monitoring a roadside revegetation project with native plants. FHWA – November 2007.

**Roundabouts: A Safer Choice (SAFE-292)**

A brochure describing what a roundabout is, and why a roundabout should be considered.  
FHWA USDOT – 2008.

**Safer Journey: Interactive Pedestrian Safety Awareness (SAFE-223)**

This is an interactive CD that takes the user through various pedestrian safety scenarios encountered on roads and streets to improve the level of pedestrian knowledge for all road users including schools, driver education groups, enforcements, etc. FHWA – July 2001.

**Safety Evaluation of the Safety Edge Treatment (SAFE-298)**

Report on a multiyear evaluation of the safety edge treatment implemented in three states.  
Also available in PDF: <http://www.fhwa.dot.gov/publications/research/safety/hsis/11025/>  
FHWA/USDOT – 2011.

**Salt Storage Summary (SNOW-144)**

A 3-page summary of the popular handbook, Salt Storage Handbook. Salt Institute – 1996.

**Shorter Duration, Safer Work Zones, More Satisfied Travelers-Successful Applications of Full Road Closure in Work Zones brochure (WKZN-111)**

Benefits include: reduced project duration, increased worker productivity, improved safety, improved product quality, positive public sentiment, and cost saving. US DOT/FHWA – 2003.

**Sign Retroreflectivity Guidebook (SIGN-164)**

This document was developed to assist small-sized agencies without traffic engineering staff in meeting the new Federal requirements for maintaining traffic sign retroreflectivity on roads open to public travel. By considering the needs and capabilities of small agencies, this document provides the necessary information needed to be in compliance with the new traffic sign retroreflectivity requirements. FHWA USDOT – September 2009.

**Sign Sheeting Products and Regulations: Rumors, Myths, and the Straight Facts (SIGN-163)**

This document is intended as a brief reference to dispel misinformation that has become commonplace. By its nature, it does not contain all the information that may be needed to make appropriate decisions. Further information can be found in the FHWA July 20, 2006, memorandum entitled "Guidelines for Public Interest Findings and Certifications and Retroreflective Sign Sheeting" and the Retro 101 presentation. FHWA USDOT – 2003.

**The Snowfighter's Handbook (SNOW-136)**

This manual is dedicated to the thousands of men and women in public works agencies at all levels whose task is providing safe streets and highways during winter storms. It includes pre-winter planning, equipment scheduling and maintenance, special plowing and spreading problems and environmental considerations. Salt Institute – July 1999.

**Soil Erosion and Sedimentation Control Guidebook CD-ROM (EROS-103)**

Michigan Department of Management and Budget's Soil Erosion and Sedimentation Control Guidebook in CD version. This was a handout at our Reducing Erosion Workshop in January 2003. Michigan Department of Management and Budget – February 2003.

**Specifications for Chip Seals, Slurry Seals, and Crack Sealing for the North Central Region (MAIN-148)**

This report is a partial printing of SHRP-M/FR-92-102, Development of a Procedure to Rate the Application of Pavement Maintenance Treatments. SHRP – August 1992.

**Subsurface Imaging of Lava Tubes Roadway Applications (MISC-170)**

Details of geophysical surveys performed at the Lava Beds National Monument (LBNM). The geophysical surveys were performed over several years with unknown lava tubes. FHWA – September 2005.

**Tea-21 Transportation Equity Act for the 21st Century Key Information (FINA-113)**

Covers key information for the Transportation Equity Act in a number of categories and subdivisions. US DOT – October 1998.

**TechBrief - A Review of the Signalized Intersections: Informational Guide (SIGN-147)**

The brief provides methods for evaluating the safety and operation of signalized intersections and tools to remedy deficiencies. The information contained in this guide is based on the latest research available. The guide's information and tools will help practitioners make insightful intersection assessments and understand the tradeoffs of potential improvement measures. The report will be available in Fall 2004 and information on where to obtain it is on the last page. USDOT/FHWA – April 2004.

**Ten Commandments for Snow Fighters poster (SNOW-142)**

This poster is produced by the National LTAP Association in partnership with the Salt Institute, 2005. It includes 10 safety tips for snow fighters. Salt Institute – January 2005.

**Transportation Action: A Local Input Model to Engage Community Transportation Planning (WSBR-131)**

The Transportation Action Model seeks to marry technical information with a decision making process that assists rural communities in transportation planning. The process includes creating public dialogue, identifying transportation issues, and developing solutions. Successful completion of the program should provide a blueprint for local action. USDOT – April 1996.

**United States Pavement Markings Poster (SIGN-141)**

This brochure is an outreach tool to educate transportation professionals and the general public about the proper design and use of many of the pavement markings on our nation's highways. It illustrates the following pavement markings: Two-way traffic markings, freeway entrance and exit markings, HOV lane markings, yield markings, work zone pavement markings, miscellaneous lane markings, and intersection markings. US DOT/FHWA – 2002.

**United States Road Symbol Signs Poster (SIGN-140)**

This is a poster style document put out by the U.S. Department of Transportation the Federal Highway Administration. It has a sample of all the road symbol signs as of 2002. US DOT/FHWA – 2002.

**Vegetation Control for Safety: A Guide for Street and Highway Maintenance Personnel (Revised August 2008) (SAFE-135)**

Helps local road agency maintenance workers identify locations where vegetation control is needed to improve traffic and pedestrian safety, to provide guidance for maintenance crews and to make them aware of safe ways to mow, cut brush, and otherwise control roadside vegetation. USDOT – August 2008.

**Wake Up! Brochure – (SAFE-244)**

This brochure discusses the dangers of driving while drowsy and ways to prevent it. AAA – 2003.

**Work Zone Safety for Drivers (WKZN-123)**

This brochure provides information to drivers on work zone safety. FHWA – 2003.