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Mark Your Calendars
August 5–11 National Stop on Red Week
Federal Highway Administration
safety.fhwa.dot.gov/intersection/redlight

August 17–Sept 3 Drive Sober or Get Pulled Over
National Crackdown — NHTSA
stopimpaireddriving.org

September 16–22 Child Passenger Safety Week
National Seat Check Saturday — NHTSA
nhtsa.gov

October 6 Walk to School Day
National Center for Safe Routes to School
walktoschool.org

October 7–13 Drive Safely Work Week
Network of Employers for Traffic Safety
trafficssafety.org/drivesafelyworkweek

October 21–27 National Teen Driver Safety Week
The Children’s Hospital of Philadelphia
teeendriverssource.org

October 22–26 National School Bus Safety Week
National Association of Pupil Transportation
napt.org

Florida Technology Transfer Quarterly
Established 1984

Florida Technology Transfer Quarterly, published by the Florida Transportation Technology Transfer (T2) Center as part of the Transportation Research Center (TRC) in the Engineering School of Sustainable Infrastructure and Environment (ESSIE) at the University of Florida, facilitates information exchange relating to roads, bridges, general surface transportation, and safety.

The T2 Center provides training, technical assistance, and technology transfer services through the following partnerships and programs:

• Federal Highway Administration (FHWA)
• Florida Department of Transportation (FDOT)
• Local Technical Assistance Program (LTAP)
• Center for Transportation Training (CTT)
• Highways for LIFE (HfL) Demonstration Showcases
• Pedestrian and Bicycling Safety Resource Center (SRC)
• Florida Occupant Protection Resource Center (OPRC)

Interested parties may receive the electronic publication and annual printed portfolio by sending name, agency, mailing address, phone, and email to t2@ce.ufl.edu. Newsletter content and accuracy is the exclusive responsibility of the Florida T2 Center.
MUTCD Update — New Regulatory Rulings Finalized

The Federal Highway Administration (FHWA) has completed its rulemaking process on two fronts for the Manual on Uniform Traffic Control Devices (MUTCD) and issued Revision 1 (addressing engineering judgment) and Revision 2 (addressing compliance deadlines) to the federal MUTCD.

Both of these changes can be potentially significant to roadway agencies, but neither is the “get out of jail free” card they might first appear to be. If anything, these changes arguably increase agency responsibilities and should be incorporated into agency programs with care. Let’s look very briefly at each one.

Revision 1 deals primarily with Section 1A.09 Engineering Study and Engineering Judgment, restoring language that was removed in the revisions that became the 2009 edition of the MUTCD. Specifically, Revision 1 adds the following guidance statements. “The decision to use a particular device at a particular location should be made on the basis of either an engineering study or the application of engineering judgment. Thus, while this Manual provides standards, guidance, and options for design and applications of traffic control devices, this Manual should not be considered a substitute for engineering judgment. Engineering judgment should be exercised in the selection and application of traffic control devices, as well as in the location and design of roads and streets that the devices complement.”

This language, though welcomed by many in the profession, should not be interpreted as permission to deviate from the standards, guidance, and options of the MUTCD by casual measures or anecdotal information. Section 1A.13 of the MUTCD defines “engineering study” and “engineering judgment.” In the State of Florida, a licensed professional engineer is required to perform the engineering study and render engineering judgment. Chapter 471.005 (5) of the Florida Statutes defines an Engineer as follows; “Engineer” includes the terms ‘professional engineer’ and ‘licensed engineer’ and means a person who is licensed to engage in the practice of engineering under this chapter.” Licensure is discussed in Florida Statute 471.015.

Revision 2 primarily affects Table I-2, Target Compliance Dates Established by the FHWA. The most significant change to this table is that 46 of the 58 compliance dates previously listed have been eliminated. Any date that has expired, but is no longer shown in the table, is no longer applicable. Conformance is therefore achieved through systematic upgrading for those particular provisions (“programmatic changes”). Dates that have already expired, but are still listed in the table, are still in effect.

The State of Florida has adopted the MUTCD for mandatory use on the State Highway System. The Florida Department of Transportation (FDOT) has several state-specific standards which supplement the MUTCD. Links to these Florida-specific standards can be found at dot.state.fl.us/rddesign/CS/CS.shtm along with the FDOT Central Office contact. Visit mutcd.fhwa.dot.gov to see the changes to the federal MUTCD.

Adapted by Sam Middleton, PE, PTOE, with permission, from the Delaware T2 Center Travel-Log, Spring 2012, Volume XXIII, Issue 1

New at the T2 Media Center Below is a sample of new items added to the Media Center collection since the last newsletter. Visit t2ctt.ce.ufl.edu/t2ctt/T2_Media_Center.asp to view all new listings.

As always, any non-copyrighted publication can be printed and checked out to you upon request. Visit the website, call 352.273.1695, or email mediacenter@ce.ufl.edu for more information.

- Alternative Approaches to Funding Highways
- An Agency Guide on Overcoming Unique Challenges to Localized Congestion Reduction Projects
- The Relationship of Title VI Requirements to Planning Processes in Florida
- A Primer on Work Zone Safety and Mobility Performance Measurement
- Safety Impacts of Pavement Edge Drop-offs
- The Superpave Mix Design System: Anatomy of a Research Program
- Optimization of Tack Coat for HMA Placement
- Mechanical Properties of Warm Mix Asphalt Prepared Using Foamed Asphalt Binders
- Standardization of Crash Analysis in Florida
- State of the Nation Report on Cell Phone Distracted Driving
- Evaluation of Alternative Pedestrian Control Devices
- Improving Pedestrian Safety at Unsignalized Crossings
- Proposed Accessibility Guidelines for Pedestrian Facilities in the Public Right-of-Way
Following the initial pavement management analysis, funding for pavement improvements was increased from $1.1 million to $3.2 million. “Neighborhood Pavement Preservation Supplemental Funds” were also designated to improve the coordination of pavement treatments.

Mr. Cottrell worked with Chris Wert, Assistant Director for Engineering, to establish a five-year prioritized pavement maintenance and rehabilitation plan sensitive to Sumter County’s very diverse socioeconomic character. Projects and treatments recommended by the system were reviewed in the field by County staff and refined, if necessary, to coordinate work along a given roadway or within a particular neighborhood.

The Pavement Management System is based on the proven MicroPAVER software system; however, multiple innovations were incorporated in the implementation method. The initial database was based on available data provided by both the County and the Metropolitan Planning Organization (MPO), such as traffic counts, including classification counts to determine truck traffic volume on select roadways.

Mr. Cottrell and his team exhibited exemplary project implementation that is beneficial to the County, its residents, and environment. For this dedication to excellence, Scott Cottrell received the FACERS Small Agency/Rural Agency Engineer of the Year Award. Congratulations on a job well done!

Local Agency/State Agency Collaboration
City of Temple Terrace Engineering Division
56th Street Corridor Improvements

Traffic congestion and pedestrian safety spurred the City of Temple Terrace to launch and complete their 56th Street Corridor Improvement Project, which required working closely with the Florida Department of Transportation (FDOT) and numerous agencies and groups. Work encompassed extensive modifications, including new medians, lighting, landscaping, crosswalks, decorative pavers, and other improvements to the .76 mile corridor. The installation of a historical...
Public Works Employee

Mr. Quanor “Butch” Skipper, Engineering Tech Manager, and Mr. Chris Wood, Superintendent
Alachua County Public Works
Unimproved Road Chip Seal Paving Projects

With over 500 miles of limerock roads graded on a six-week cycle, Alachua County’s idea of the Chip Seal Program to reduce the dust, lower maintenance and grading costs, and improve the travel conditions for roadway users while reducing stormwater and pollutant runoff makes sense. The program also responded to many residents’ complaints about dusty conditions, potholes, and washboarding on County-maintained, unpaved roads while providing a greater level of service at similar costs to roadway grading.

At the direction of the Alachua County Commissioners, Public Works staff published a report that outlined some of the issues associated with County-maintained limerock roads. After prioritizing a list of roads, a Chip Seal Process was developed to enhance roads at a reduced cost. The Construction Crew, directed by Mr. Butch Skipper and Mr. Chris Wood, began the Chip Seal process on the prioritized roads.

The City invested $2.3 million as well as funding from federal, state, and local grants to relocate overhead utility lines underground and replace the unsightly utility poles with majestic Medjool date palms. The City also spent the funds on safety enhancements such as widened sidewalks, fewer driveway aprons, and landscaped medians to replace dangerous dual turning lanes, resulting in a well-constructed project with less than 1% cost overrun.

The City of Temple Terrace showed excellent teamwork in coordinating work efforts with all agencies in completing this extensive project punctually and with detailed consideration to the end result and its impact on the community. The City is well deserving of this year’s FACERS Local Agency/State Agency Collaboration award. Congratulations on a job well done!
Mr. Skipper and Mr. Wood provided an excellent leadership style, empowering the 12 construction crew employees and gaining support for the Chip Seal Program. Their direct, hands-on approach to explain processes, ensure all materials were accounted for, and promote quality control of the delivered product guaranteed the project met all measures, schedules, and quality standards, and ensured the Chip Seal road would reduce maintenance costs. Innovative methods were used to recycle concrete, asphalt milling materials, and various other components of the chip seal process. The surface treatment had many other benefits, such as improving public health by reducing dusty conditions, lowering the risk of crashes and fatalities by improving visibility and friction, and limiting environmental impact by minimizing erosion, sedimentation, and runoff.

Marion County Road Division Shoulder Paving Crew

Safety Edge

Marion County had a severe problem with pavement edge drop-offs. To address this issue, the County added the Safety Edge (documented as a significant countermeasure to address safety associated with pavement edge drop-off problems) to new work on major rural roads. After installing an existing Safety Edge “Shoe” device on the County’s widener, the crew discovered that the device was designed to work with a conventional paver and did not perform as expected. So, the Shoulder Paving Crew fabricated a new Shoe using the original basic concepts to allow the device to work with the County’s equipment.
Placing a thick, narrow Hot Mix Asphalt (HMA) strip required the entire crew to use a much different compaction procedure to make the effort work. This project and their efforts were also part of the Federal Highway Administration’s (FHWA) demonstration in June 2011 and may have been one of the first instances where the Safety Edge was used with a widener instead of a conventional paver. The County did incur modest cost for Shoe fabrication and initial testing, but continued use of the device will not add any cost to future projects.

The Marion County Road Division Shoulder Paving Crew’s innovation is an inspiration and an example of low-cost improvements for the good of all involved. Congratulations on a job well done and receiving a FACERS Team Project Award!

Team Project of the Year – Shared

Volusia County Road and Bridge Division
Coastal Reef Project

Volusia County’s Coastal Division Director was tasked by the County Council to provide artificial reefs in County waters to benefit the recreational fishing industry in Volusia County. As this project was not normal department business (the last artificial reef was constructed in 2004), experienced supervisors met several times to mastermind a plan of action to include hours of service, staffing, material types, material handling, staging area size, traffic plans, vehicle maintenance support for fueling and service, appropriate record keeping, and interaction with the Coastal representative.

Recycled or damaged drainage structures and pipe, as well as other large concrete items, were selected as the most cost-effective project materials, supplied by the County, other municipalities, and some private companies, and staged in a small area in New Smyrna Beach. This unique project has provided a very cost-effective approach to expanding local industry and, with the County Council’s support, will continue in the future. Recent studies indicate that the return on investment to the local economy is as much as $138.00 for every dollar spent building artificial reefs.

The project has been well received by both the diving and recreational fishing industry in the County and has provided a direct, positive impact on the community by creating fish habitat off the coast. This was a team effort with input and assistance from various agencies coming together to complete a project beneficial to the County’s community and economy. Congratulations on a job well done and receiving a FACERS Team Project Award!
Florida’s Pedestrian and Bicycling Safety Resource Center
Supplying materials to make your safety event successful

Make your ped/bike events and educational activities more successful by providing items that reinforce safe walking and bicycling practices. Items listed below are available at no charge to qualifying organizations. Visit www.pedbikesrc.ce.ufl.edu for descriptions, illustrations, and ordering information.

**Tattoos**
- I’m Safe – Think Before You Step
- I’m Safe – Be Safe! Wear a Helmet
- I’m Safe – Think B4 You Step
- I’m Safe – Use Your Brain! Wear a Helmet!

**Stickers**
- Use Your Head (Dog)
- Use Your Head (Moose)
- Walk Safely!
- Walking School Bus

**Reflective**
- “Be Safe Be Seen” Reflective Wristlet
- SRTS Reflective Wrist Band

**Other Fun Stuff**
- Brain Erasers
- 4-Pack Crayola Crayons
- Be Safe Be Seen Mood Pencils NEW!
- Be Safe Be Seen Mood Pens NEW!
- Flip Top Water Bottles NEW!

**Books**
- A Resident’s Guide for Creating Safe and Walkable Communities
- Cycling Skills Clinic Guide
- Florida Bicycle/Pedestrian Law Enforcement Guide
- Florida Bicycling Street Smarts
- How to Develop a Pedestrian Safety Action Plan
- Pedestrian Safety Guide for Transit Agencies
- Pedestrian Safety Workshop: A Focus on Older Adults
- Pedestrian Safety Workshop: A Focus on Older Adults Instructor Guide
- Practice Bike Safety
- Statewide Bicycle Facilities Study
- The Guide to Bicycle Rodeos
- Traffic Safety

**Posters**
- Are You A Safe Walker?
- Bicyclist Poster II (Spanish)
- Bicyclist Poster (Spanish)
- Pedestrian Poster: Sidewalks (Spanish)
- I’m Safe On My Bike

**Publications**
- A Kid’s Guide to Safe Walking
- Bicycle Safety
- Bicycle Safety: What Every Parent Should Know *E/S
- Bicyclist Make Safe Choices/Rules of the Road
- Bike Riding Dangers
- CROSSWALK COUNTDOWN!
- Crosswalk Safety *E/S
- Easy Steps to Properly Fit a Bicycle Helmet
- EL EQUIPO ADECUADO
- GOT GEAR?? Safe to the Xtreme
- How To Fit & Wear Your Bicycle Helmet *E/S
- I’m A Safe Walker
- I’m Safe – On My Bike
- I’m Safe on My Bike Coloring Book
- I’m a Safe Walker Coloring Book
- I’m Safe! Paint Sheet – Bike *E/S
- I’m Safe! Paint Sheet – Pedestrian *E/S
- Kids Physical Activity *E/S
- Know the Rules – Going To & From School *E/S
- Let’s Walk to School Coloring Book
- Neighborhood Safety *E/S
- Parent’s Guide – Child Safety on Your Street
- Paul’s A-Maze-ing Trip
- PEATÓ & PONGA ATENCIÓN…
- Prevent Pedestrian Crashes
- Road Riders Are Drivers
- Safety Fun Activity Book *E/S
- Sara and Her Bike
- Secret Code
- Stepping Out
- The Top Ten Rules of Bicycle Safety
- Tips for Parents and Other Adults for Teaching Pedestrian Safety to Children *E/S
- Tips for Walking Safely to School *E/S
- Walk ‘n Roll Activity Book
- Walk ‘n Roll Bookmark
- Walk ‘n Roll Punch Cards
- Wear Your Helmet
- What’s Wrong with This Picture?
- You Can Teach Your Child to Walk Safely *E/S
- You Can’t Stop a Train

*E/S — Available in English and Spanish

- The Ped/Bike Booth and OPRC Booth at the Lifesavers Conference in Orlando, FL on June 14–16, 2012
This past quarter has been exciting for the Florida Occupant Protection Resource Center (OPRC): scholarships were added, lots of new items were ordered, and the Center had a booth at the Lifesavers conference in Orlando. Lots of great things are happening to promote occupant protection in Florida!

In June, scholarships covering the $75 fee to become a qualified Child Passenger Safety (CPS) technician were made available for anyone in the State of Florida who would like to serve their community as a CPS tech. To apply, visit floridaoprc.ce.ufl.edu, click on Links, and then Forms, to complete and submit the application. Also available is a one-time stipend for Florida CPS Instructors teaching classes before September 15, 2012. Only one award will be given per instructor for this grant year in order to accommodate as many instructors as possible. The application is in the CPS Instructors section of the website.

During the Lifesavers 2012 conference, the OPRC was able to showcase a variety of resources available through the center to illustrate the support provided by the FDOT to the CPS community across Florida (below). The example set by the OPRC program inspired many other state delegates to begin exploring options for a similar resource center for their own state. Thanks to the CPS instructors and technicians who stopped by to visit the booth — it’s so nice to match faces with names, and we hope to meet many more of you throughout the year! The OPRC has received great feedback through the two conference calls that have taken place to date (audio recordings are available in the instructor/technician only website sections).

Below is a list of items available to order at no charge through the Promotional Items portion of the website. Visit the website to order, and be sure to check back for the soon-to-be-added instant download page (under the Links section) with a list of items you can download and print right from the site. The OPRC has learned so much over the last quarter and would love to hear about any improvements that can be made to serve you better. Please email floridaoprc@ce.ufl.edu or call 352.273.1671 to provide your valued input.

### Activity Books
- I’m Safe! in the Car – Activity Book
- I’m Safe! in the Car – Paint Sheet *E/S
- Road Warriors Safe to the Xtreme

### Stickers
- Be Safe Buckle Up – 5-point Harness
- Be Safe Buckle Up – in a Booster *E/S
- Be Safe Buckle Up – Moose *E/S
- I’m Safe! Sticker Sheets

### Tattoos
- Be Safe Buckle Up
- Pre-teen Car Safety

### Other Fun Stuff
- Key Chain Flashlight
- Window Clings
- Crayons
- Pens
- Post-it Notes
- Are You Safe in the Car – Poster
- Coffee Mug
- Fans (Handheld)
- OPRC Magnet
- Water Bottle

### DVDs
- I’m Safe! in the Car
- 2012 Child Restraint Manufacturers’ Instructions with Summary Sheets *I/T
- Simple Steps to Child Passenger Safety (Living Legacy) *I/T

### Publications
- Easy Reader Tip Sheet
- Easy Reader Tip Sheet
- I’m Safe! in the Car – Bookmark
- Spanish Flip Book *I/T

*E/S — Available in English and Spanish
*I/T — Available to CPS Instructors and Technicians only
Making Roadways Safer for Motorcycles – Part 3
Lane Ridges, Rises, and Lane Changes

This article reviews the third segment in a series of eight recently-developed training segments funded by the Florida Department of Transportation (FDOT). The series is designed to raise the awareness of public works and transportation employees who are responsible for the planning, designing, construction, and maintenance of our roads. The visuals-based curriculum has a simple message: motorcycles are different from vehicles, and riders react differently to roadway conditions than drivers do.

As presented in the review of Segment 2 in our May 2012 issue, riding a motorcycle is an active operation, and a motorcycle tire’s footprint is very small. Any changes in the road surface that a driver of a car or truck traverses with ease can present a safety issue to a motorcyclist, especially when changes are longitudinal to the roadway, like ridges and rises. Lane ridges and rises may occur due to poor longitudinal joints or from paving during construction that leaves one lane higher than the next. Standards limit a drop-off to a maximum of 1-1/2 inches, but direction plays a big role. If a motorcycle is traveling on the new mat (higher) and has to transition to the old mat (1-1/2 inches lower), that is an operation that most riders can handle fairly easily; however, if the motorcycle is traveling on the old mat and has to transition to the new, higher mat (low side to high side), even a 1-1/2 inch difference can present a safety challenge.

Consider a typical construction project with the main line paving performed first and ramps paved later. When a motorcyclist is riding on an Interstate that is under construction, moving from the newly paved road on to the lower, older pavement is much easier than negotiating an on-ramp with a diagonal rise while accelerating to highway speeds. The same issues apply for turn lanes and crossovers during construction, as well as new lanes left open to traffic. It can also apply to resurfacing a two-lane road when one side is paved and the other is not. Motorcycle riders must be very careful not to lose control when transitioning from high to low side ridges and, even more importantly, low to high side ridges.

In order to improve conditions for motorcyclists, roadway designers should take care to discuss transitions, lane changes, and traffic shifts with an emphasis on motorcycle safety, minimizing such conditions where possible. Suggestions that can be executed during construction include ensuring drop-off criteria are met, drop-offs are backfilled and brought flush to surface, required signage is in place, and longitudinal joints are flush with adjoining pavement. Also helpful would be to drive through the project and observe it from a motorcyclist’s perspective, looking for areas where improvements could be made. It is also a good idea to avoid leaving lane drop-offs in traffic lanes any longer than necessary. A final important measure to take is maintaining and repairing longitudinal joints and drop-offs, when needed.

Remember that any irregularity in the road surface can have a significant effect on the motorcyclist’s control of his/her vehicle. Following these suggestions and others found in the curriculum can help ensure your roads are in the best shape for all of your road users, no matter how many wheels their vehicles have.

Please visit t2ctt.ce.ufl.edu/t2ctt/Motorcycle_Safety_Materials.asp to view the full curriculum and share it with your staff. Also stay tuned for Part 4 in an upcoming issue of the newsletter. Together, we can make roadways safer for all users.
Visit t2ctt.ce.ufl.edu to view the full course listings or to register for any of our sessions. For more information about T2 workshops, email t2workshops@ce.ufl.edu or call 352.273.1670. For CTQP courses, email ctt@ce.ufl.edu or call 352.273.1669. We look forward to serving you. Training on your terms.

Advanced Maintenance of Traffic
August 8–10, 2012 Temple Terrace
August 29–31, 2012 Cape Coral
September 12–14, 2012 Gainesville
September 18–20, 2012 Tallahassee
October 17–19, 2012 Punta Gorda
October 24–26, 2012 Temple Terrace
November 1–2, 2012 North Miami Beach

Advanced MOT - Refresher
August 7, 2012 Temple Terrace
August 28, 2012 Cape Coral
September 11, 2012 Gainesville
September 17, 2012 Tallahassee
October 16, 2012 Punta Gorda
October 23, 2012 Temple Terrace

Asphalt Mix Design
October 9–12, 2012 Gainesville

Asphalt Paving Level 1
August 14, 2012 Tampa
September 18, 2012 Chipley
October 2, 2012 Davie

Asphalt Paving Level 2
August 15–17, 2012 Tampa
September 19–21, 2012 Chipley
October 3–5, 2012 Davie

Asphalt Plant Level 1
September 5–7, 2012 Gainesville

Bucket Truck Safety/Hands-on
August 8–9, 2012 Ocala

Concrete Batch Plant Operator
August 7, 2012 Chipley

CTQP Written Exam Only
(No books provided)
August 7, 2012 Chipley
August 14, 2012 Tampa
August 17, 2012 Tampa
August 22, 2012 Davie
August 24, 2012 Davie
August 31, 2012 Orlando

Drilled Shaft Inspection
August 29–31, 2012 Orlando

Earthwork Construction Inspection Level 1
August 21–22, 2012 Davie
October 15–16, 2012 Chipley

Earthwork Construction Inspection Level 2
August 23–24, 2012 Davie
October 17–18, 2012 Chipley

EDC Exchanges for Market-Ready Technologies - FREE
August 16, 2012 Tallahassee, Ocoee, Davie

FDOT Concrete Field Inspector Specification
September 10–12, 2012 Chipley
September 10–12, 2012 Fort Myers
October 22–24, 2012 Gainesville

Intermediate Maintenance of Traffic
August 15–16, 2012 Cape Coral
August 15–16, 2012 Orlando
August 29–30, 2012 North Miami Beach
September 12–13, 2012 Punta Gorda
September 26–27, 2012 Temple Terrace
October 10–11, 2012 Tallahassee
October 17–18, 2012 Cape Coral
October 17–18, 2012 North Miami Beach
October 24–25, 2012 Gainesville
October 24–25, 2012 Orlando

Intermediate MOT - Refresher
August 14, 2012 Cape Coral
August 14, 2012 Orlando
August 15, 2012 North Miami Beach
September 11, 2012 Punta Gorda
September 25, 2012 Temple Terrace
October 9, 2012 Tallahassee
October 10, 2012 North Miami Beach
October 16, 2012 Cape Coral
October 23, 2012 Gainesville
October 23, 2012 Orlando

Pile Driving Inspection
October 9–11, 2012 Gainesville

Pilot/Escort Flagging
August 17, 2012 Orlando
September 6, 2012 Gainesville
October 4, 2012 Gainesville
October 11, 2012 Fort Myers
October 19, 2012 Orlando
November 1, 2012 Gainesville

Quality Control Manager
September 13–14, 2012 Chipley
September 13–14, 2012 Fort Myers
October 25–26, 2012 Gainesville

Final Estimates Level 1
September 12, 2012 Gainesville

Final Estimates Level 2
September 13–14, 2012 Gainesville

September is International Walk to School Month
www.walktoschool.org
FDOT Summary of Final Research Reports  New topics available!

Access dot.state.fl.us/research-center for these summaries and final reports. Go to the Research Center Topics drop-down menu in the lower left corner of the page and click on Completed Research. Summaries are listed by category.

Geotechnical
- Development of Variable LRFD Factors for Deep Foundation Design Due to Site Variability (BDK75 977-23)

Planning
- Multimodal and Corridor Applications of Travel Time Reliability (BDK77 977-10)

Safety
- Evaluation of Shared Lane Markings in Miami Beach, Florida (BDM10 977-01)
- Preparing Florida for Deployment of Safety Analyst for All Roads (BDK80 977-07)

Traffic Engineering and Operations
- Development of a Regional Public Transportation GIS Architecture and Data Model (BDK85 977-29)

Materials
- Alternative Methods for Coatings and Materials Used on FDOT Signage and Lighting Structures – Phase I (BDK82 977-06)
- Development of a Binder Fracture Test to Determine Fracture Energy (BDK75 977-27)
- Development of a Test Method That Will Allow Evaluation and Quantification of the Effects of Healing on an Asphalt Mixture (BDK75 977-26)
- Development of Tiered Aggregate Specifications for FDOT Use (BDK75 977-29)
- Effects of Laboratory Heating, Cyclic Pore Pressure, and Cyclic Loading on Fracture Properties of Asphalt Mixture (BDK75 977-28)
- Improving the Properties of Reclaimed Asphalt Pavement for Roadway Base Application (BDK81 977-02)