



## Transportation

### *Consultant Selection*

#### **Consultant Selection Guide**

A consultant selection guide includes a flow chart, a step-by-step summary of the process, examples of advertising and award packages, documents, forms and tools used in evaluating proposals. It also has guidelines for conducting negotiations and a compilation of ethics and government in the sunshine law provisions that affect consultant selection. For more information, please contact Antonette Adams at (954) 777-4624 or [antonette.adams@dot.state.fl.us](mailto:antonette.adams@dot.state.fl.us). 2007 DOT-022

### *Contracting*

#### **Improved Road Ranger Contract**

A new Road Ranger contract includes standards and technologies to increase efficiency that provide 40 additional roadway miles of coverage between 6:30 a.m. and 9:30 p.m. without increased funding. For more information, please contact Terry Hensley at (813) 975-6259 or [terry.hensley@fdot.state.fl.us](mailto:terry.hensley@fdot.state.fl.us). 2007 DOT-005

#### **Pressure Cleaning Savings**

Restructuring of bidding and contracting for pressure cleaning Florida Turnpike buildings saved more than \$1 million. For more information, please contact John Cerasari at (954) 934-1266 or [john.cerasari@dot.state.fl.us](mailto:john.cerasari@dot.state.fl.us). 2007 DOT-009

#### **Consultant Selection Process Guide**

A consultant selection process guide includes a flow chart, a step-by-step summary of the process, examples of advertising and award packages, documents, forms and tools used in evaluating proposals. It also contains guidelines for conducting negotiations and a compilation of ethics and government in the sunshine law provisions that affect consultant selection. For more information, please contact Antonette Adams at (954) 777-4624 or [antonette.adams@dot.state.fl.us](mailto:antonette.adams@dot.state.fl.us). 2007 DOT-022

#### **Process to Pay Contractors for Hurricane Repairs**

A process to document Hurricane Wilma damage to ongoing construction projects in District Four resulted in more than \$2 million of reimbursements by the Federal Highway Administration. For more information, please contact Patrick McCann at (954) 777-4387 or [patrick.mccann@dot.state.fl.us](mailto:patrick.mccann@dot.state.fl.us). 2007 DOT-035



## ***Design and Construction***

### **Installation of Qwick Kurb to Directionalize Medians**

Using the product "Qwick Kurb" to directionalize median openings saves approximately \$25,000 per opening. For more information, please contact Gary Thompson at (813) 975-6253 or [gary.thompson@dot.state.fl.us](mailto:gary.thompson@dot.state.fl.us). 2007 DOT-004

### **Reduced Construction Time**

Utilizing a new product of carbon polymer sheet pile in lieu of concrete sheet pile saved \$8.3 million on a U.S. 98 Okaloosa Island project. For more information, please contact H.T. Waller at (850) 415-9720 or [h.waller@dot.state.fl.us](mailto:h.waller@dot.state.fl.us). 2007 DOT-006

### **Improved Data Management**

A Geographic Information System (GIS) captures stores, updates, manipulates, analyzes, and displays data. The database reduces the need for a full investigation if a bridge needs to be widened or a turn lane added. For more information, please contact Henry Haggerty at (386) 961-7890 or [henry.haggerty@dot.state.fl.us](mailto:henry.haggerty@dot.state.fl.us). 2007 DOT-016

### **Directional median openings**

In-house design and construction of directional median openings at two intersections with extensive crash histories in order to limit left turns across multiple lanes of traffic was completed in substantially less time and \$40,000 less than would have been the case if this work had been contracted. An estimated that \$227,117 will be saved annually due to elimination of angle and left turn crashes. For additional information, please contact Thomas Greene at (772) 465-7396 ext. 7075 or [thomas.greene@dot.state.fl.us](mailto:thomas.greene@dot.state.fl.us). 2007 DOT-030

### **Alternative Treatment of Poor Subgrade Conditions**

A study of muck subgrade in a construction project recommended a design change that saved approximately \$450,000 in construction costs. For more information, please contact Michael Bienvenu at (954) 475-4110 or [michael.bienvenu@dot.state.fl.us](mailto:michael.bienvenu@dot.state.fl.us). 2007 DOT-031

### **Reduced Construction Costs Related to Debris Dumping**

Monitoring of newly-acquired right of way minimizes construction budget overruns resulting from debris dumping and/or previously undetected subsurface materials between construction contract letting and Notice to Proceed to the construction. For more information please contact Van Neilly at (954) 777-4287 or [van.neilly@dot.state.fl.us](mailto:van.neilly@dot.state.fl.us). 2007 DOT-040

### **Streamlined Remediation of Roadway Site Prior to Construction**

A design to streamline remediation of a contaminated site prior to State Road (SR) 80 roadway construction in South Florida save approximately \$3 million. Horizontal drilling of wells under the SR 80/SR 7 intersection expedited remediation of the site with little interruption to traffic. Cost avoidance accrued to the Florida Department Environmental Protection because it did not have to use Petroleum Cleanup Program funds to remediate the site. For more information, please contact Richelle Ellis at (954) 777-4342 or [richelle.ellis@dot.state.fl.us](mailto:richelle.ellis@dot.state.fl.us). 2007 DOT-043

After adapting and implementing one of the achievements above, please submit a nomination for a Prudential Financial - Davis Productivity Award of up to \$2,500. Instructions and forms are available at [www.floridatxwatch.org](http://www.floridatxwatch.org). The full list of adaptable achievements is on the website, as well. For further information, please contact your agency awards coordinator or Ms. Clarissa Dunlap, Executive Director of the Prudential Financial - Davis Productivity Awards, [cdunlap@floridatxwatch.org](mailto:cdunlap@floridatxwatch.org) or (850) 222-5052.



## **Reduced Violations and Trainees**

Expanding the content of a mandatory pre-construction meeting with contractors reduced the number of violations associated with a federally mandated on the job training program on department construction projects and the number of trainee appointees needed to complete program requirements to save \$111,062 over a twenty-month period. For more information, please contact Martha Anderson at (954) 777-4389 or [martha.anderson@dot.state.fl.us](mailto:martha.anderson@dot.state.fl.us).  
2007 DOT-044

## **Electronic Shop Drawing Transmittal Process**

Electronic submittal and processing of Turnpike shop drawings saved the Department of Transportation and its contractors more than \$700,000 worth of shipping and reproduction costs, and reduced overall processing time by 26%. For more information, please contact Robert Laurence at (954) 934-1146 or [robert.laurence@dot.state.fl.us](mailto:robert.laurence@dot.state.fl.us). 2007 DOT-052

## ***Disaster Preparation and Recovery***

### **Hurricane Damage Inspection Reports**

Process mapping of the preparation of Hurricane related Detailed Damage Inspection Reports for federal reimbursement to local governments for hurricane-related damages to their roadway systems help District 4 to process the paperwork within the 180 day time limit. For more information, please contact Ann Broadwell at (954) 777-4325 or [ann.broadwell@dot.state.fl.us](mailto:ann.broadwell@dot.state.fl.us).  
2007 DOT-029

### **Process to Pay Contractors for Hurricane Repairs**

A process to document Hurricane Wilma damage to ongoing construction projects in District Four resulted in more than \$2 million of reimbursements by the Federal Highway Administration. For more information, please contact Patrick McCann at (954) 777-4387 or [patrick.mccann@dot.state.fl.us](mailto:patrick.mccann@dot.state.fl.us). 2007 DOT-035

## ***Facilities and Maintenance***

### **Exit Pavement Markings**

Reducing the scope of work for exit number pavement markings installation saved approximately \$56,000 by reducing contractor time and cost of materials. For more information, please contact Kevin Dunn at (813) 975-6631 or [kevin.dunn@dot.state.fl.us](mailto:kevin.dunn@dot.state.fl.us). 2007 DOT-003

### **Roadway Stabilization Technique**

Design of a hopper that feeds sand and cement into sinkholes to stabilize roadways, reduced the cost on two projects by nearly \$50,000. For more information, please contact Binay Prakash at (386) 961-7737 or [binay.prakash@dot.state.fl.us](mailto:binay.prakash@dot.state.fl.us). 2007 DOT-008

### **Improved Roadway Shoulder Repair**

Incorporating asphalt milling material and top soil and muck acquired from permit and other agencies' projects produced a superior material mix that increased quality from 63% in 2003, to



71% in 2005, reducing the need to rework the same area by 50%, or approximately \$398,000 per year. For more information, please contact Mike Atkins at (561) 432-4966. 2007 DOT-020

### **Transfer of Information from Construction to Maintenance**

A process for up-dating the department's Roadway Characteristic Inventory System process contributed to annual cost savings of \$72,500. For more information, please contact Lloyd Mcpherson at (954) 776-4300 or [lloyd.mcpherson@dot.state.fl.us](mailto:lloyd.mcpherson@dot.state.fl.us). 2007 DOT-026

## ***Information System***

### **Geographic Information System Program**

A Geographic Information System captures, stores, updates, manipulates, analyzes, and displays multiple forms of geographically referenced information. For more information, please contact Henry Haggerty at (386) 961-7890 or [henry.haggerty@dot.state.fl.us](mailto:henry.haggerty@dot.state.fl.us). 2007 DOT-016

## ***Procurement and Materials***

### **Asphalt Tracking Program**

An Excel program that tracks daily asphalt paving inspections made by district materials personnel meets the needs of the pavements section and annually saves the District Four materials and research office 744 hours, valued at \$21,150. For more information, please contact Cesar Ricardo, (954) 475-4102 ext. 136 or [cesar.ricardo@dot.state.fl.us](mailto:cesar.ricardo@dot.state.fl.us). 2007 DOT-025

## ***Project Management***

### **Project Audit System**

A project audit submittal system that identifies common areas of roadway design projects that cause inefficiency in processing of completed record contract packages improves accountability and saves nearly \$3,000 per project. For more information, please contact Stacy Miller at (954) 777-4429 or [stacy.miller@dot.state.fl.us](mailto:stacy.miller@dot.state.fl.us). 2007 DOT-033

### **Tool to Manage Development of Projects**

A system that manages integrated local and legacy systems information on more than 1,000 projects in the Department of Transportation's five-year, \$5 billion work program, saves an estimated \$60,000 per month worth of project managers' time researching information in multiple systems and manual tracking work displays. The modular architecture of this system can be adapted and implemented by other state agencies. For more information, please contact Jose Theilier at (954) 777-4042 or [Jose.Theilier@dot.state.fl.us](mailto:Jose.Theilier@dot.state.fl.us). 2007 DOT-039

## ***Safety***

### **Rapid Incident Scene Clearance**

An incident management program developed by the Department of Transportation and the Florida Highway Patrol uses heavy duty wreckers under an incentive-based performance

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contract to achieve faster clearance of major incidents on Florida's Turnpike. User costs savings of more than \$5 million were achieved in 2005 by an average 30-minute reduction during 88 incidents. The program also helped prevent secondary crashes valued at more than \$500,000 and toll revenue loss of more than \$250,000. For more information, please contact Mike Werner in Ft. Lauderdale at (954) 934-1208 or [michael.werner@dot.state.fl.us](mailto:michael.werner@dot.state.fl.us). 2007 DOT-010

### **Road Ranger Operating Guidelines for Incident Management**

A traffic incident management initiative that transitioned the program from motorist assistance to an incident response team helped reduce incident times an average of 10 minutes. For more information, please contact Michael Washburn at (407) 264-3312 or [michael.washburn@dot.state.fl.us](mailto:michael.washburn@dot.state.fl.us). 2007 DOT-011

### **Streamlining Severe Incident Response Vehicle**

Streamlining an existing Severe Incident Response Vehicle contract scope further reduces traffic delays and saved more than \$4.2 million by empowering an incident commander to initiate cleanup of hazardous materials and/or mitigate emergency situations before additional resources are required. For more information, please contact Richelle Ellis at (954) 777-4342 or [richelle.ellis@dot.state.fl.us](mailto:richelle.ellis@dot.state.fl.us). 2007 DOT-042

### **Crash Data Management System**

Automated GIS-based crash data management system expedites and enhances traffic safety studies. Unwieldy mainframe data is imported to desktops to perform routine, recurring tasks in a fraction of the time, enabling staff to study more locations in detail for estimated annual added value of \$300,000. For more information, please contact Ping Hsu (813) 975-6251 [ping.hsu@dot.state.fl.us](mailto:ping.hsu@dot.state.fl.us). 2007 DOT-051

## ***Training***

### **Streamlined Florida's Turnpike Response and Recovery Efforts**

A program which is 75% voluntary adds safety and value to constituents, infrastructure, and Department of Transportation staff to ensure roadways remain passable during disaster events. Team members who handle infrastructure needs, disseminate travel information, maps, and water at Turnpike Service Plazas are trained in National Incident Management, Incident Command Systems and CPR/AED/First Aid. Ensuring the safety of vehicle traffic during fueling provides an estimated \$172,800 a day in user costs delay savings. For more information, please contact Christopher Warren at (407) 532-3999 ext. 3102 or [Christopher.warren@dot.state.fl.us](mailto:Christopher.warren@dot.state.fl.us). 2007 DOT-012

### **Maintenance of Traffic Training**

In-house Maintenance of Traffic Training Team for approximately 400 employees saved District Two more than \$41,000. For more information, please call Ed Ward at (386) 961-7581 or [ed.ward@dot.state.fl.us](mailto:ed.ward@dot.state.fl.us). 2007 DOT-001



### **On-Line Safety Training**

An on-line safety training module provides mandatory monthly safety training in lieu of employees to traveling to the District Maintenance Office to receive it. For more information, please contact William Wang at (954) 777-4203 or [william.wang@dot.state.fl.us](mailto:william.wang@dot.state.fl.us). 2007 DOT-028

### **Training of New Project Personnel**

A quality assurance team at the West Palm Beach Operations office of the Department of Transportation mentors and teaches new project personnel. Results include reduction of unacceptable construction and a decrease in construction time overruns 9% in September 2005 to 6% in September 2006. For more information, please contact Don Cronk at (561) 432-4699 ext. 1107 or [don.cronk@dot.state.fl.us](mailto:don.cronk@dot.state.fl.us). 2007 DOT-047

### ***Travel Services***

#### **Pay-As-You-Wait" Travel Reimbursement Service**

A travel reimbursement process reduces the time that travelers wait to receive payment after submitting reimbursement requests from an average of one week to five to ten minutes. The only additional cost of implementing this process is an off-the-shelf software program costing approximately \$40. For more information, please contact Kelly Lutz at (850) 414-4819 or [Kelly.lutz@dot.state.fl.us](mailto:Kelly.lutz@dot.state.fl.us). 2007 DOT-019