Florida Department of Transportation

DISTRICT 7 DESIGN-BUILD PUSH BUTTON Contract

(FEDERAL SAFETY AND STATE FUNDS)

Contract Evaluation

12/21/10
Jobs Creation Saving Lives Fast Response Customer Service

09/30/2010 3FDOT D7 DBPB Evaluation
Evaluation Content

History of the Contract

Reasons & Process

Tasks issued in Fiscal Year 2009/2010

Tasks Evaluation

Contract Pros & Cons

What is next?
History of the Contract

"Working Together to Solve Safety Challenges in the Tampa Bay Area"
• **Starting in Year 2004** – questions from District Traffic Operations concerning developing a new type of contract that would **significantly** reduce the amount of time it took to get a project from “concept to concrete.”

• Florida DOT already utilizes two (2) innovative types of contracts that provide some time-savings over the traditional Design-Bid-Build methodology.

• But, those two (2) innovative types of contracts … Design-Build and Push-Button … still had their limitations.

• Therefore, during a moment of inspiration, we reasoned “why not try to combine those two (2) contracting strategies into a single contract?” → Traffic Operations **Design-Build Push Button** concept was born!

• **THEN, OUR NEXT CHALLENGE WAS TO SELL THE PLAN……**
On February 11, 2004, District Seven began to correspond with the Central office about our proposal of combining the design-build contracting methodology with the push-button contracting methodology to marry the benefits of both of those contracting strategies into a single contract using both State funds and Federal safety funds.

In September, 2007, Central office agreed to allow District Seven to proceed with a pilot program to test-fly this one-of-a-kind and totally unique contracting concept.

While the District began developing the RFP for such a combined contract, District Seven worked with FHWA FL Division to gain approval to include federal safety money under this unique combined contract on June 30, 2008.

With FHWA’s blessing, District moved forward with the concept by conducting an informational meeting with the consultant community and the contractor industry. And, after receiving input from that forum, we completed the RFP and advertised the contract on March 24, 2009.

District shortlisted three teams, evaluated their technical proposals, opened their price proposals, calculated the resulting adjusted-scores, and finally posted our contract execution on December 17, 2009.
District 7 Design- Build Push Button Contract

“Working Together to Solve Safety Challenges in the Tampa Bay Area”

Reasons & Process
### Why Design-Build Push Button? (Time Factor)

**DISTRICT 7 DESIGN-BUILD PUSH BUTTON**

- **LAP Project**
  - Lap certification: 3 months
  - LAP Agreement: 4 months
  - Selection of Design Firm: 17 months
  - Prepare 60% Plans: N.A.
  - Task Work Order: N.A.
  - Design/Review Process: Already included
  - Letting: 9 months
  - Hand Off to Construction: N.A.
  - Construction: 3 months
  - Total Timeline: 36 months

- **Design / Bid / Build**
  - N.A.
  - N.A.
  - 6 months
  - N.A.
  - N.A.
  - 12 months
  - 9 months
  - N.A.
  - 3 months
  - 30 months

- **Class 1 / District Let**
  - N.A.
  - N.A.
  - 6 months
  - 3 months
  - N.A.
  - 9 months
  - 9 months
  - N.A.
  - 3 months
  - 30 months

- **Push Button**
  - N.A.
  - N.A.
  - 6 months
  - N.A.
  - 2 months
  - 6 months
  - N.A.
  - 1 month
  - 3 months
  - 18 months

- **Design Build / Push Button**
  - N.A.
  - N.A.
  - 6 months
  - N.A.
  - 6 months
  - N.A.
  - 6 months
  - N.A.
  - N.A.
  - 3 (Overlap) months
  - 13 months

*Note: Several ‘Tasks’ can be issued under DBPB versus one task under LAP/Design-Bid-Build Projects. Tasks can be done from one (1) to nine (9) months.*
DISTRIBUTION 7 DESIGN-BUILD PUSH BUTTON

• Purpose and objective:

  • Streamlined Process
  • Quick Solutions to operational & safety problems
  • Covering wide range of projects
  • Faster results
  • Innovative Approach
  • Biggest bang for the buck
  • Time Factor
  • Similar to the old 70’ era TOPICS program
• **Conduct the** **thorough Feasibility** (all funds) & **Justification** (Federal Safety Funds) Study - includes National Environmental Policy Act (NEPA) requirements.

• **Generate Task Scopes** with maximum task time and cost.

• **Conduct the Task Scopes Review** – Coordination!

• **Send Task Scopes** with all supporting studies to **FHWA for approval**.

• **Allocate the approved State or Federal fund** for each DBPB task.

• **District Construction office sends the task(s) Notice to Proceed (NTP)** to the DBPB Prime firm.

• **DBPB team starts to work on the task!** → Task time period is counted from NTP to end of the construction.

• **Use SharePoint technology and weekly progress meetings** to share the DBPB Plans & task Information – **Communication is the Key for Success!**
• How to select a Candidate Project?

Is it Operational or Safety Related issue?

- **NO** → END

- **YES**
  - Right of Way (R/W)
    - **YES** → Qualified for Fed. Safety?
      - **YES** → Apply Fed. Safety Funds
        - **YES** → Safety Project
          - Federal Guidelines
        - **NO** → Design Build Push Button Project
          - Federal Guidelines
      - **NO** → Qualified for State Funded?
        - **YES** → Apply State Funds
          - **YES** → State Project
        - **NO** → Work Program

- **NO** → END

- **END**
• Design Plan & Contract Information – Sharing – Communication!

D7 DBPB

Calendar
There are currently no upcoming events. To add a new event, click “Add new event” below.

Add new event

Announcements
There are currently no active announcements. To add a new announcement, click “Add new announcement” below.

Add new announcement

Links
- FDOT
- CBO
- Federal Highway Administration
- Citrus County Public Works
- Pasco County Traffic Operations
- Pinellas County Traffic
- Hillsborough County Traffic
- FDOT Traffic Operations
- FDOT PTP site
- District Seven Operations
- MUTCD 2009 RFP
- Task 0: Eleven Projects Scope of Work and Location Maps
- FDOT Specifications/ODB and Base of Estimates
- District 7 IFC
- Utility Management Solutions, Inc.
- Devil Rays Games
- Tampa Bay Bucs Calendar

Add new link
• Task Information – Sharing with all parties – Communication!
District 7 Design- Build Push Button Contract

“Working Together to Solve Safety Challenges in the Tampa Bay Area”

Tasks issued in Fiscal Year

2009/2010
• \$13.025M -- \$4.725 State fund + \$1.8M for signal hanger modifications (state earmark fund) and \$6.5M Federal Safety fund \rightarrow 3 types of funds!

• Issued 13 tasks/23 projects -- 11 federal safety funded projects & 12 state funded projects

• Task cost varied between \$33,000 and \$2,400,000 \rightarrow Flexibility

• Federal safety funded projects covered 53 highway miles of Inverted Profile marking to address lane departure crashes, pedestrian safety improvement for 288 intersections & one intersection to address red light running crashes.

• State funded projects covered 2 Intelligent Transportation System projects, signal re-build for 11 locations, signal hangers for 131 locations & intersection operational improvement for 3 locations.
• Details for the DBPB Task 1:

• Notice to Proceed Date: **January 19th 2010**

• Construction Days for Task 1: **189 Contract Task Days + 30 Rain Days**

• Completion Date for Task 1: **October 1, 2010**

• Total Cost (Lump Sum): **$1,627,872.15**

• Total Number of Projects: **11**

• Local Agencies Involved: **Counties:** Citrus, Hernando, Pasco, Hillsborough and Pinellas; **Cities:** Tampa, Pinellas Park, St. Petersburg

• Project Types: Inverted Profile Markings, Signal Improvements, Intersection Improvements, Overhead Warning Signs, ITS Improvements, and Pedestrian Safety Improvements
District 7 Design Build Push Button contract can issue numerous tasks, covering various project types through the life of the contract (2 years in this case)

• **Task 2 - PEDESTRIAN SAFETY IMPROVEMENT:** 270 days task time – Federal Safety Fund ($2.4M)
  – The task requires the Design Build Push Button team to prepare a set of plans and specifications and construct Pedestrian Crossing High Emphasis Crosswalk Marking Enhancements for up to 249 signalized intersections and 37 mid-block crossing within District Seven. This work is to include but is not limited to installation of ladder style high emphasis crosswalks, pedestrian signals, pedestrian push buttons, curb ramps, sidewalks etc.

• **Task 3 - TRAFFIC OPERATIONS / SAFETY:** 150 days task time -- Federal Safety Fund ($600K)
  – The task requires the Design Build Push Button team to prepare a set of plans and specifications and construct concrete medians in the place of existing Qwick Kurb medians in Hillsborough and Pasco Counties at six locations.

• **Task 4 - SIGNAL IMPROVEMENT / OPERATIONS:** 270 days task time – State Fund ($1.8M)
  – The task requires the Design Build Push Button team to prepare a set of plans and specifications and construct traffic signal hanger upgrades in accordance with those plans for up to 144 signalized intersections within District Seven. The work is to include but not limited to installations of traffic signal hanger upgrade, new traffic signal disconnect, new signal cable etc.
• **Task 5**: Inverted Profile Pavement markings for various segments in various Counties: 270 days task time -- Federal Safety Fund ($1.64M)

• **Task 6**: Median Improvements to provide left turn offsets on Roosevelt Blvd at 58th St.: 150 days task time -- State Fund ($63K)

• **Task 7**: ITS Enhancements in Pinellas County from 54th Ave S to North of Skyway Bridge toll plaza: 210 days task time -- State Fund ($220K)

• **Task 8**: Realignment of SR 60 travel lanes to fit the need of City of Clearwater near Highland Avenue: 180 days task time – State Fund ($33K)

• **Task 9**: Traffic Signal rebuilds in Pinellas - 3 Locations: 270 days task time -- State Fund ($1,111,339)

• **Task 10**: Traffic Signal rebuilds in Hillsborough - 1 location: 270 days task time -- State Fund ($506,376)

• **Task 11**: Traffic Signal rebuilds in Hernando - 3 locations: 270 days task time -- State Fund ($922,148)

• **Task 12**: Traffic Signal rebuilds in Citrus - 2 locations: 270 days task time -- State Fund ($735,106)

• **Task 13**: Pedestrian Signals & Associated Pedestrian Features for 18 signalized intersections: 270 days task time – Federal Safety Fund ($1M)
### DISTRICT 7 DESIGN-BUILD PUSH BUTTON – Tasks in FY 2009/2010 (Cont.)

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<th>Task No</th>
<th>Description</th>
<th>County</th>
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</table>
Summary:

High Emphasis Crosswalk Locations: 288

Signal Hanger Locations: 131

Median/Intersection Improvement: 11

Wet Weather Marking: 53 highway miles

ITS Improvement: 2

Signal Rebuild Locations: 11
District 7 Design- Build Push Button Contract

“Working Together to Solve Safety Challenges in the Tampa Bay Area”

Tasks Evaluation


As of August 20, 2010, the Direct Jobs data received from ARRA projects by Florida DOT is: 84,503. (http://www.dot.state.fl.us/planning/economicstimulus/jobs/)

Total jobs created/saved by the DBPB contract in FY 2009/2010 (6-month for $13M tasks) in the Preliminary Engineering & Construction areas -- 48! (actual count)
• Total Project Time from “Concept to Concrete” historically for safety projects varies from 30 months to 58 months per types of projects.

• Total Project Time for the 11 projects in the DBPB Task #1 – from 2 months to 7.6 months!

• Project Time Saving – 25 months to 52.5 months!
### Potential crash reduction for the “finished” safety projects (7) in the DBPB task #1 → 46.34

### Crash reduction benefit due to address safety concerns early for the “finished” safety projects (7) in the DBPB task #1 → $6.6M (total safety project cost: $909,031)

### Potential crash reduction for 11 safety projects issued in FY 2009/2010 → 138.28

### Crash reduction benefit due to address safety concerns early for 11 safety projects issued in FY 2009/2010 → $18.8M (total safety project cost: $6.5M)

<table>
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<th>DBPB Types of Projects</th>
<th>Locations</th>
<th>County</th>
<th>Section</th>
<th>BMP #</th>
<th>BMP</th>
<th>Length</th>
<th>Projected Crash Reduction per Year</th>
<th>Traditional Construction Time (Month)</th>
<th>DBPB Construction Time (Month)</th>
<th>Time Saving (Month)</th>
<th>Potential Crash Reduction from the DBPB contract</th>
<th>Cost per Crash Reduction</th>
<th>Potential Crash Reduction Benefit from the DBPB contract</th>
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</tbody>
</table>

**Total Crash Reduction:** 138.28

**Total Safety Project Cost:** $6.5M

**Total Potential Crash Reduction Benefit:** $18.8M
Design & Survey Fee % in the DBPB contract – 16%, 18% or 20% of the total project construction cost – per the level of project difficulty.

Design & Survey Fee % for the traditional design-bid-build projects shown in the Florida DOT system – depends on the “size” of the projects – varies from 8% (mega $100+ million projects) to 150+% (small operational projects).

Construction Engineering Inspection Fee % in the DBPB contract – funded and conducted by FDOT – average 9%.

Construction Engineering Inspection Fee % for the traditional design-bid-build projects shown in the Florida DOT system – average 10% - 15%.

Huge Cost Saving in the Design & CEI Cost -- at least 30% saving!
# District 7 Design-Build Push Button – Construction Cost Evaluation

**D7 Design Build Push Button TASK #1 -- Construction Cost comparison between Statewide Pay Item Unit Price vs DBPB Contract Pay Item Unit Price**

<table>
<thead>
<tr>
<th>Project #</th>
<th>Project Description</th>
<th>Project Budget include Construction, CEI &amp; Design $</th>
<th>Construction Cost -- Statewide Unit Price*</th>
<th>Construction Cost -- DBPB Unit Price**</th>
<th>% Difference vs. Statewide Unit Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>US 19 @ Gandy Blvd</td>
<td>$30,512.95</td>
<td>$15,565.38</td>
<td>$23,471.50</td>
<td>50.79%</td>
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<tr>
<td>2</td>
<td>SR 44 @ Independence Hwy</td>
<td>$25,144.82</td>
<td>$19,041.83</td>
<td>$19,342.17</td>
<td>1.58%</td>
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<td>3</td>
<td>54th Ave ITS Project</td>
<td>$97,706.55</td>
<td>$67,508.63</td>
<td>$77,544.88</td>
<td>14.87%</td>
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<tr>
<td>4</td>
<td>SR 50 @ Spring Lake Hwy</td>
<td>$56,675.76</td>
<td>$45,057.37</td>
<td>$43,596.74</td>
<td>-3.24%</td>
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<tr>
<td>5</td>
<td>40th St - Signal Rebuilt</td>
<td>$239,688.20</td>
<td>$141,109.15</td>
<td>$190,228.73</td>
<td>34.81%</td>
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<tr>
<td>6</td>
<td>US 301_McIntosh_Wet Weather Audible Marking</td>
<td>$220,186.84</td>
<td>$184,448.36</td>
<td>$174,751.46</td>
<td>-5.26%</td>
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<tr>
<td>7</td>
<td>Guld Blvd_Ped Safety Pavement Messages</td>
<td>$87,839.16</td>
<td>$79,216.60</td>
<td>$68,624.34</td>
<td>-13.37%</td>
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<tr>
<td>8</td>
<td>US 301 @ Stacy – Overhead sign structures</td>
<td>$184,954.87</td>
<td>$174,310.06</td>
<td>$144,495.99</td>
<td>-17.10%</td>
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<td>9</td>
<td>US 41_Pasco_Wet Weather Audible Marking</td>
<td>$122,029.88</td>
<td>$97,282.24</td>
<td>$96,849.11</td>
<td>-0.45%</td>
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<td>10</td>
<td>US 301_Pasco_Wet Weather Audible Marking</td>
<td>$212,200.39</td>
<td>$169,702.42</td>
<td>$168,413.01</td>
<td>-0.76%</td>
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<td>11</td>
<td>Roosevelt Blvd @ 28th</td>
<td>$439,753.24</td>
<td>$288,684.18</td>
<td>$349,010.77</td>
<td>20.90%</td>
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<tr>
<td><strong>TOTAL</strong></td>
<td></td>
<td><strong>$1,716,692.66</strong></td>
<td><strong>$1,281,926.22</strong></td>
<td><strong>$1,356,328.70</strong></td>
<td><strong>5.80%</strong></td>
</tr>
</tbody>
</table>

* Price does not include MOT / MOB / Design Cost. Total Project costs are based on quantities from final design plans & statewide pay item unit prices.

**Price does not include MOT / MOB / Design Cost. Total Project costs are based on quantities from final design plans & DBPB contract pay item unit prices.

Safety funded projects

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**DBPB construction cost are very competitive in the traffic safety and operations areas!**

09/30/2010

FDOT D7 DBPB Evaluation
DISTRICT 7 DESIGN-BUILD PUSH BUTTON - Before & After Pictures
• DBPB Contract & Process Details – Everything you want to know!

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District 7 Design- Build Push Button Contract

“Working Together to Solve Safety Challenges in the Tampa Bay Area”

Contract Pros & Cons
DISTRICT 7 DESIGN-BUILD PUSH BUTTON - Pros

- **Customer Service** -- Florida DOT can finish operational or safety improvements to better meet public expectations.

- **Saves Time** -- the shortest project time is 2 months for design & build (Gulf Blvd pavement messages). Minimum project time reduction: 25 months!

- **Saves Lives** – Reduce project time = Obtain crash reduction early!

- **Flexibility** – Can issue small or large projects (samples from $33K to $2.4M).

- **Created/Saved Jobs** – 48!

- **Fast plan review process** enforced by the District Design Engineer.

- **Weekly Progress Meetings** between FDOT & DBPB teams help -- Communication!

- **Innovative Technology** to enhance Communication – SharePoint & ERC (Electronic Review Comment System).

- **Teamwork** between FDOT District 7 offices is amazing!
District 7 Design-Build Push Button - Cons

- Administration Issues -- requires a higher level and constant communication between all offices to streamline process.

- Tasks need to have good feasibility study & clear project scopes.

- Technology is good. However, if system breaks, time lost! – ERC system.

- Procedure issues.

- NEPA is needed even for state funded projects.

- Traffic Operations DBPB contract is designed to address traffic operational or safety issues, not roadway improvements – higher unit price for roadway items.

- Limited pay items. There are issues to be resolved when adding pay items.

- Potential backlog due to numerous tasks – need to plan work force well.
What Actions are Next?
Work with Florida DOT HQ & FHWA FL Division – Become an approved contract process in Florida.

Issue additional safety & operations tasks in Fiscal Year 2010/2011 -- $9M budget

Prepare Contract Scopes per lessons learned – DBPB II

Answer your questions 😊
What is this DBPB Contract?

- Saves Time & Money!
- Reduces Congestion!
- Creates Jobs!
- Saves Lives!
- *Every Day Counts when it comes to Safety*
DBPB Contract information, please contact:

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Florida Department of Transportation – District 7
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Tampa, FL 33612
(813) 975-6251
ping.hsu@dot.state.fl.us