



# FLORIDA DEPARTMENT OF TRANSPORTATION

## Technical Proposal Submittal Req'mts.



**Rudy Powell, P.E., State Construction Engineer**  
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**August 20 and 21, 2013**  
**Orlando, FL**



# Questions?

- What is the purpose of a technical proposal?
- What information is really needed to review a technical proposal?
- How will the technical proposal be used by the Department and DB Team post award?



# Design-Build Deliverables Task Team

- 17 members from the Department, Consultants, and Contractors
  - 8 Department (3 Central Office and 5 District)
  - 5 Consultants
  - 4 Contractors

## Task

Review the Technical Proposal Submittal Requirements Post-Implementation of the New Adjusted Score Design-Build Process and Implement Changes.



# Why Form a Task Team?

- Cost to Prepare a Technical Proposal
  - Number of proposals
  - One-up the competition- “protect us from ourselves”
  - stipends
- Time to Review a Technical Proposal
  - Number of proposals
  - Size of proposals
- Post-Award Cost Impacts



# Question #1

## What is the Purpose of a Technical Proposal?

- Demonstrate and evaluate a team's understanding and ability to perform the work (design and construction).
- Demonstrate and evaluate a team's approach to the project (design and construction).
- Demonstrate and evaluate the value offered in a proposal.



## Question #2

# What Information is Really Needed to Review a Technical Proposal?

- Written approach
- Roadway plans - overall roadway layout with further details of critical areas defined in the RFP
- Traffic control plans
- Bridge plans - BDR level of detail to 30% plan level of detail



## Question #3

# How will the Technical Proposal be Used by the Department and DB Team Post Award?

- DB Teams use the plans portion of the technical proposal as a starting point to continue the design - a work in progress. The written portion is reviewed to ensure any commitments are carried over to the plans as they progress.



## Question #3

- Realizing the Department's position is critical when determining the technical proposal submittal requirements.
- Requiring a DB Firm to provide very detailed information in the technical proposal may have implications post award. On the flip side, a DB Firm that provides very detailed information that is not required may have implications post award.



## Question #3

- The Department uses the technical proposal as a commitment by the DB Team to provide the product as described in the written and plan portions of the technical proposal. Any change to a commitment will be viewed as a Cost Savings Initiative.
- The difference in viewpoints is clear and was reflected in the Task Team discussions.



## Question #3 - Pros and Cons

- Requiring very detailed information:
  - Pros - more knowns so less risk to Department
  - Cons - forces higher proposal costs; more review effort and time; more CSIs so split savings and more contract administration
- Providing very detailed information that is not required:
  - Pros - more knowns so less risk to Department; maybe more technical points
  - Cons - higher proposal cost (choice of team); more review effort and time; more CSIs (choice of team) so split savings and more contract administration



# Question #3 - Pros and Cons

- Requiring only what is needed and providing only what is required:
  - Pros - minimizes proposal costs; minimizes review effort and time; less CSIs so savings are in bid and less contract administration
  - Cons - less knowns so more risk to Department



# Design-Build Deliverables Task Team

## RFP Section VII. Technical Proposal Requirements

- VII.B Submittal Requirements
- VII.C Evaluation Criteria
- VII.D Final Selection Formula



# RFP Section VII.B Technical Proposal Submittal Requirements

- Section 1: Project Approach
- Section 2: Plans and Technical Special Provisions



- **Section 1: Project Approach**
  - Maximum of 15 pages
  - Describe proposed design solutions and construction means and methods (non-committal language is not acceptable)
  - Provide any Value Added features
  - Provide a schedule narrative- no CPM, bar, or Gantt charts
  - Do not reveal Proposed Contract Time
- **Section 2: Plans and TSPs**
  - Provide plans in accordance with the PPM
  - Roll plots may be used for plan and profile views
  - Provide any TSPs



# PPM Volume II Chapter 2

## Roadway Plans

**Figure 2.2 Summary of Design-Build Phase Submittals**  
Provide the sheets listed as applicable

ITEM	TECHNICAL PROPOSAL	90% PLANS	FINAL PLANS
Key Sheet		P	F
Drainage Map	P	C	F
Interchange Drainage Map	P	C	F
Typical Section	P	C	F
Summary of Drainage Structures		C	F
Project Layout		C	F
Roadway Plan-Profile	P	C	F
Special Profile		C	F
Back-of-Sidewalk Profile		C	
Interchange Layout	P	C	F



# PPM Volume II Chapter 2

## Roadway Plans

### 2.4.2.1 Requirements for Technical Proposal Submittal

For the Technical Proposal only, the Design Build team may submit either plan sheets no larger than 24 inches by 36 inches. Roll plots may be submitted as an alternate neither wider than 36 inches nor longer than 96 inches. Unless otherwise directed by the Department, the following elements are required for a Technical Proposal Submittal:

#### **DRAINAGE MAP - PLAN VIEW**

- Drainage divides and flow direction arrows
- High water information as required
- Preliminary horizontal alignment with stationing
- State, Federal, county highway numbers (as appropriate)
- Proposed storm drain trunk line and outfall locations
- Proposed Retention/Detention Pond Locations

#### **INTERSECTION DRAINAGE MAP - PLAN VIEW**

- Preliminary interchange drainage with drainage areas and flow direction arrows

#### **TYPICAL SECTIONS**

- Mainline and crossroad typical sections
- R/W lines
- Traffic data
- Pavement Design

#### **PLAN AND PROFILE - PROFILE VIEW (con't)**

- Preliminary profile grade line
- Existing ground line with elevations at each end of sheet
- Begin and end stations for the project and stations of equations and exceptions
- Final profile grades and vertical curve data
- High water elevations

#### **INTERCHANGE LAYOUT**

- Curve data including superelevation and design speed
- Stationing and ties
- Access and/or frontage roads with dimensions and R/W
- Ramp identification

#### **INTERSECTION LAYOUT**

- North arrow and scale



# PPM Volume I Chapter 26

## Bridge Plans

Topic #625-000-007  
Plans Preparation Manual, Volume 1 - English

January 1, 2013  
Revised – July 1, 2013

### Exhibit 26-DD Summary of Design/Build Technical Proposal and Component Plan Submittals

Provide the sheets listed as applicable based structure type.

#### Foundation Submittal

ITEM	Technical Proposal	90%	Final
Cover Sheet		C	F
Key Sheet		C	F
Sheet Index		C	F
General Notes	S	C	F
Surface Finish Details		C	F
Riprap Details		C	F
Slope Protection Details		C	F
Plan and Elevation	P	C	F
Bridge Typical Section	P	C	F
Hydraulics Recommendation	P	C	F
Construction Sequence	P	C	F
Borings		C	F
Foundation Layout	P	C	F
Pile/Shaft Data Table		C	F
Drilled Shaft Details		C	F



# RFP Section VII.C Evaluation Criteria

- Design 25- 40 points
  - Construction 25- 40 points
  - Innovation 0- 10 points
  - Value Added 5- 10 points
- 80 points maximum



# RFP Section VII.D Selection Formula

## Contract Time

- Department will establish contract time.
- DB Team will propose contract time and evaluated as part of the adjusted score formula - includes incentive-disincentive provision.
- DB Team will propose contract time and up to 5 points awarded according to sliding scale - no incentive-disincentive provision.



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# Questions



**For more information contact:**

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