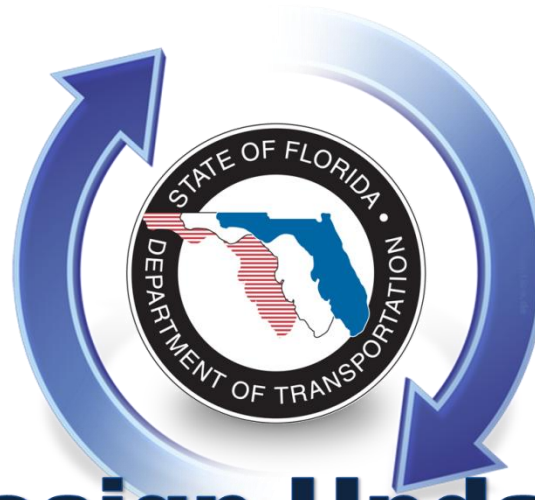


Design-Build



Design Update Training

Alan Autry

Office of Construction

RFP Development - Pre-Scoping Questions

- ◆ Expanded effective July 2, 2013
 - ✓ PD&E
 - ✓ Roadway
 - ✓ Structures
 - ✓ Drainage
- ◆ <http://www.dot.state.fl.us/construction/DesignBuild/DBRules/DB-PreBid-Scoping-Questions.pdf>



Technical Proposal Requirements

- ◆ Streamlined – 2 Sections
- ◆ Section 1 – Project Approach
 - ✓ 15 Page Limit; Double-sided 8 ½” X 11” count as 2 pages; 11”X17” Prohibited
 - ✓ Design & Construction Solutions/Means
 - ✓ Value Added Features
 - ✓ Written Schedule Narrative
 - Bar/Gantt Charts prohibited; No mention of Contract Time



Technical Proposal Requirements

- ◆ Section 2 – Plans/Technical Special Provisions
 - ✓ 11”X17” Format
 - ✓ Roll Plots (36” X 96”)
 - Plan/Profile view only
 - ✓ Plan Content in accordance with PPM
 - ✓ TSP’s as needed



Technical Proposal Requirements – Figure 2.2

Topic #625-000-008
Plans Preparation Manual, Volume 2 - English

January 1, 2013
Revised – July 1, 2013

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
Intersection Layout/Detail	P	C	F
Drainage Structures		C	F
Three-Sided/Box Culvert Details		C	F
Lateral Ditch Plan-Profile		C	F
Lateral Ditch Cross Section		C	F
Retention/Detention Pond Details		C	F
Roadway Soil Survey		C	F
Cross Sections		C	F
Temporary Traffic Control Plans	P	C	F
Utility Adjustments		C	
Selective Clearing and Grubbing		C	
Developmental Design Standards		C	F
Mitigation Plans		C	F
Miscellaneous Structures Plans		C	F
Signing and Pavement Marking Plans	P	C	F
Signalization Plans		C	F
Intelligent Transportation System (ITS) Plans		C	F
Lighting Plans		C	F
Landscape Plans		C	F
Utility Work by Highway Contractor Agreement Plans		C	F
Toll Facility Plans			
Site/Civil	P	P	F
Architectural	P	P	F
Structural	P	P	F
Electrical		P	F
Mechanical		P	F
Plumbing		P	F
Communications		P	F
Systems		P	F

Status Key:
P - Preliminary
C - Complete but subject to change
F - Final



Technical Proposal Requirements – Figure 2.2

Topic #625-000-008
Plans Preparation Manual, Volume 2 - English

January 1, 2013
Revised – July 1, 2013

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
Right-of-Way Plan Profile	D	C	F



Technical Proposal Requirements – Section 2.4.2.1

Topic #625-000-008
Plans Preparation Manual, Volume 2 - English

January 1, 2013
Revised – July 1, 2013

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 - PLAN VIEW

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
Existing topography (if applicable)
Proposed R/W limits



Plan Submittal Requirements (by Phase)

- ◆ 90% Plans (Components Allowed)
 - ✓ Required elements defined by PPM
- ◆ Final Plans (Components Allowed)
 - ✓ Required elements defined by PPM
- ◆ Construction Set (RFC'd)
- ◆ Record Set (As-Builts)



Plan Submittal Requirements – Figure 2.2

Topic #625-000-008
Plans Preparation Manual, Volume 2 - English

January 1, 2013
Revised – July 1, 2013

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		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
Intersection Layout/Detail	P	C	F
Drainage Structures		C	F
Three-Sided/Box Culvert Details		C	F
Lateral Ditch Plan-Profile		C	F
Lateral Ditch Cross Section		C	F
Retention/Detention Pond Details		C	F
Roadway Soil Survey		C	F
Cross Sections		C	F
Temporary Traffic Control Plans	P	C	F
Utility Adjustments		C	
Selective Clearing and Grubbing		C	
Developmental Design Standards		C	F
Mitigation Plans		C	F
Miscellaneous Structures Plans		C	F
Signing and Pavement Marking Plans	P	C	F
Signalization Plans		C	F
Intelligent Transportation System (ITS) Plans		C	F
Lighting Plans		C	F
Landscape Plans		C	F
Utility Work by Highway Contractor Agreement Plans		C	F
Toll Facility Plans			
Site/Civil	P	P	F
Architectural	P	P	F
Structural	P	P	F
Electrical		P	F
Mechanical		P	F
Plumbing		P	F
Communications		P	F
Systems		P	F

Status Key:
P - Preliminary
C - Complete but subject to change
F - Final



Plan Submittal Requirements – Figure 2.2

Topic #625-000-008

January 1, 2013

Plans Preparation Manual, Volume 2 - English

Revised – July 1, 2013

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	D	C	F



Plan Submittal Requirements – Section 2.4.2.2

Topic #625-000-008
Plans Preparation Manual, Volume 2 - English

January 1, 2013
Revised – July 1, 2013

2.4.2.2 Requirements for 90% Plans Component Submittal

Unless otherwise directed by the Department, the following elements are required for a 90% Plans Component Submittal:

KEY SHEET

Location Map w/ location of project on map
All applicable Financial Project ID's
(Federal Funds) notation, if applicable
Exceptions & Equations
County Name
State Road Number
Length of project box
North arrow and scale
Approval signature lines
Railroad crossing (if applicable)
Revision box
Governing Standards & Specifications dates
Project Manager's Name
Begin & end project station and begin mile post
Begin & end bridge stations
Consultant's name, address, contract number,
Certificate of Authorization number and vendor
number (if applicable)
Index of sheets
Contract plans and component plans list

DRAINAGE MAP - PLAN VIEW

North arrow and scale
Drainage divides and ground elevations
Drainage areas and flow direction arrows
Equations
High water information, as required

DRAINAGE MAP - PLAN VIEW (con't)

Cross drains with pipe sizes and structure
numbers
Bridges/bridge culverts with begin and end
stations
Flood data (if applicable)
State, Federal, county highway numbers (as
appropriate)

DRAINAGE MAP - PROFILE VIEW

Horizontal & vertical scale
Begin & end stations of project, bridges, bridge
culverts & exceptions
Equations
Ditch gradients including DPIS
Final roadway profile grade line
Mainline storm drain pipes
Mainline flow line elevations
Mainline structures with structure numbers
and pipes
Bridge, Bridge Culvert
Cross drains with pipe sizes, structure numbers
and flow line elevation

INTERCHANGE DRAINAGE MAP

North arrow and scale
Stationing along baselines
Ramp baselines with nomenclature

