Designer Interface and Basis of Estimates

Designer Interface for wT and BOE Basics for Designers and Reviewers

June 16, 2015: Ongoing DI and BOE changes pending; see Program Management web page for details
• Welcome
  • Definitions and Abbreviations
  • History of Designer Interface/Webgate
  • Current updates to PrP, DQE, BOE, and reports

• Designer Interface
  • Accessing the Designer Interface
  • Reviewing & Updating the Header information
  • Updating Category header- structures
  • Exporting headers to CADD Quantity Manager*
  • Importing quantities from CADD Quantity Manager*
    *We will NOT be going to the CADD quantity manager software with this training. A separate webinar will be available to CADD users.
  • Adding Items and quantities
• **Webgate Reports**  
  - Project Edit Report - checking for errors  
  - Project/Proposal Summary for CADD plans (.xml file)  
  - Historical reports

• **Basis of Estimates - Basics**  
  - Updates & Registration: Contact Database  
  - Requesting Pay Items:  
    - Opening Items with existing pay item structure  
    - Creating new pay item structures  
    - Generic Pay Items for Utilities  
  - Coordination with Specs, Design Standards, and other manuals/handbooks  
  - Summary Boxes - brief review (Separate webinars are available for more detail)

• **Questions and Answers**
• **Webgate**
  - Internet web page to access Designer Interface, Reports, and other applications
  - RACF (mainframe) userID/password required

• **Designer Interface (DI)**
  - FDOT application to enter pay items and quantities into Transport/Preconstruction program

• **Project Preconstruction (PrP)**
  - Next generation of Transport, also known as web Transport (wT)
  - AASTHOWare Project suite of programs

• **Design Quantity Estimates (DQE)**
  - FDOT application for estimating
  - Pay Item maintenance

• **Basis of Estimates (BOE)**
  - FDOT manual for pay item guidance
• **Pre-1999:** Mainframe Cost Estimating System (mainframe CES). The Summary of Quantities from this system was also known as the “CES”, or Cost Estimate Summary.

• AASHTO’s suite of programs, including the AASHTO Project Estimating System (PES) and Cost Estimating System (CES) were originally based on Florida’s mainframe system.

• The Designer Interface was developed in 1999, to facilitate the entry of pay items and quantities into PES.

Today’s Designer Interface has been updated to work with newer browsers, databases, and the web based Project Preconstruction.
Project Preconstruction

- Replaces Transport module known as PES
- Uses “workflows” to guide projects through various steps/ phases
  - CO let Design-bid-build (pay item projects)
  - District let Design-bid-build (pay item projects)
  - Design-Build projects
  - District Maintenance
  - Others
- Allows users to view/update based on their “role”, workflow, and the current workflow phase
- Phase can be updated by FDOT Project Manager or Estimator, depending on current phase

Contact your FDOT Project Manager if you do not have a project available to update in Designer Interface. The workflow phase may need to be updated.
Accessing the Designer Interface
Reviewing & Updating the Header information
Updating Category header- structures

**TEST:** used for many of the screens shown in this presentation.
**PRODUCTION:** June 1 implementation.
6-16-15 update: Ongoing changes to DI and BOE

www.dot.state.fl.us/ProgramManagement/divisions.shtm
(Formerly Specifications and Estimates Office)
From the Program Management Office’s Divisions page, Select the “webgate” link
Some Links below may require either Adobe PDF or Microsoft PowerPoint 2007 or higher.  

Design Quantities and Estimates (DQE) 
DQE is an Estimates Application for producing Construction Cost Estimates, as well as maintaining pay items and the Basis of Estimates. Additional guidance is available on the DQE home page. A RACF UserID is Required.

Access to both Reports and Interface 
WebGate
The WebGate is a single point of origin for access to a variety of applications and Transport reports. It resides within the FDOT secured firewall. A RACF UserID is Required. 
Applications may be accessed through the WebGate or the direct links below:

- **Citrix Access to Transport Modules** - PES, LAS, CES, and SIM
  - Effective June 1, 2015: PES and LAS will be replaced with AASHTO Project Preconstruction (PrP)
  - CES will be read only, refer to DQE for pricing.

- **Transport Reports**
  - Effective June 1, 2015: Transport Reports will move to WebGate Reports

- **Designer Interface**
  - The Designer Interface is a FDOT web application used by designers to load items and quantities into Transport PES. A RACF UserID is required. For help with internet browser settings, refer to  Browser Settings for Designer Interface.pdf
  - Authorized users only.
  - Some reports may require additional security.

- **Project Preconstruction (PrP)**, also known as webTransport, is for FDOT Estimators only.
This is a RACF login page; bookmarks should be for destination, such as Webgate or Designer Interface.

Please Do Not Bookmark or Add this Page to your Favorites!

Access requires a Mainframe (RACF) userid and password.

User ID: [ ]
Password: [ ]

Service Desk will assist with UserID & Passwords. All project and pay item issues should go directly to Project Manager, Specs, or Estimates.
You may have fewer/different options, based on your userID or security settings.
Upon entering, you will see only those projects that you have access to view/update. Contact your FDOT Project Manager if you do not see your project.
### Designer Interface

**Locked:** In use by others, or in another work phase

**Update:** Available to update items, quantities, or other fields

#### Project List

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Contact the Service Desk  
Web Policies & Notices
Project Details: This is the “home screen” for the project.
Header (data from FM and other systems): Verify project number, letting date, and other information. If errors exist, notify your FDOT Project Manager.

Spec Year/Pay Item Year: This field is associated with the Master Pay Item list, NOT the Spec Book.
### Categories

Update categories as needed. For Bridges, there should be 1 category for each bridge, with the appropriate bridge ID. If needed, add categories using the “add category” button above.
Deleting Categories: Select the category row, then click the “Delete Selected” box above.
Updating Categories: Update each structures category to enter the bridge details.
Update Structures Categories: Enter the bridge length, width, type/location, bridge ID, substructure/superstructure/foundation type, and work type.

Remember to save category changes!
Return to the Project Details by clicking on the Project Details link above.
**Categories**: Other categories do NOT need to be updated, unless the project involves innovative contracting methods, such as alternate categories.
Items: There are two methods for loading pay items and quantities:
1. CADD Quantity Manager
2. Manual Entry
### Designer Interface

**Export Header:** Sends the category headers to a .xml file

**Import:** Brings in the items/quantities from CADD .xml file

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*Page 1 of 17*
1. Review/update category header in DI
2. Export/Save category headers to .xml
3. Update QM information
4. Export/Save QM information to .xml
5. Import .xml to DI
6. Update other pay items/quantities

Step 3: A separate webinar is available for CADD/QM users. See ECSO web page for details.
7. Exit DI. Go to Webgate Reports
   • Resolve errors before proceeding
9. Run Summary of Pay Items (CADD) report for Project or Proposal
   • Save report as .xml
10. Import .xml into plans (after key sheet)
**Items:** There are two methods for loading pay items and quantities-
1. CADD Quantity Manager
2. Manual Entry
**Items:** Select the Items link for the appropriate category.
### Items: Update quantity as needed. Remember to save/process changes!
NEW! Selecting the pay item number will link you directly to the Basis of Estimates details. More details soon...
NEW! Select your report from the available reports on the list. Options may vary, depending on your role/security settings.
• Check for errors

• Note spec type flags (7.2 of BOE)
  • A= Approvals Needed/Monitored Item
  • D= Developmental Specification- approvals needed
  • M= Maintenance Specification
    • Maintenance Contracts ONLY: E###-### pay items
    • Maintenance Use- may require spec/details
  • P= Plan Details required
    • Size/shape, location, or other
  • R= Project Specific Permit Required
  • T= Tech Spec or Plan details
    • Description, Materials, Construction or Acceptance criteria, Method of Measurement, and Basis of Payment

• If a flag does not match the BOE details, please report the error; some flags have not been updated from “D” to “P”
This is a test sample only; Special Detour is still valid!
• Currently open pay items.
• NOT A SHOPPING LIST
  • Descriptions may be abbreviated or truncated
  • Complete Descriptions will be included in other reports
  • Use the Basis of Estimates when searching for an item
• Reference Price
  • Starts as a “guess”; suggestions are welcome for $0.00 items
  • Updated monthly, as awarded project data becomes available
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Master/PayItemsList

This is a test sample only; Special Detour is still valid!
Webgate Reports: Summary of Pay Items (CADD)

- **Project Summary**
  - Used for phase reviews, or until proposal is available
  - Does NOT combine quantities for “strung” projects to be let together
  - Available in .pdf or .xml format

- **Proposal Summary**
  - Used for 100% plans reviews, or whenever proposal number is available
  - Combines quantities for “strung” projects to be let together, similar to the bid blank
  - Available in .pdf (for informal summary) or .xml (for exporting to plans sheet)
This is a sample of existing input screen; updated screens pending
Webgate Reports: Summary of Pay Items (CADD)

This is a sample of existing output screen; updated screens pending. Note the two project numbers for the one proposal.
Webgate Reports:
Pay Item Average Unit Cost & Item Average Unit Cost

- **Pay Item Average Unit Cost**
  - Enter individual pay items (up to 10)
  - Specify area, contract type, and date range
  - OUTPUT: Contract/Project list, with awarded prices & quantities

- **Item Average Unit Cost**
  - Enter pay item range
  - Specify area, contract type, and date range
  - OUTPUT: Summary with number of contracts and weighted average (historical average)
Webgate Reports: Pay Item Average Unit Cost & Item Average Unit Cost

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Similar Reports - One is by range, the other by pay item.
Webgate Reports: Pay Item Average Unit Cost & Item Average Unit Cost

Output is similar, but the “by item” report will expand to include project details.
**Designer Interface - Manual Data Entry**

NEW! Selecting the pay item number will link you directly to the Basis of Estimates details.
Design Quantities and Estimates (DQE) - NEW: Basis of Estimates

When coming from Designer Interface, the current pay item is defaulted. Select the “+” symbol to expand details.
Design Quantities and Estimates (DQE)- NEW: Basis of Estimates

To go to other pay items, enter the pay item in the Structure ID box, or go to the Chapter Index.
Design Quantities and Estimates (DQE)- NEW: Basis of Estimates

The Chapter Index is similar to the BOE Table of Contents.

Scroll or Filter, as needed.
Basis of Estimates - Basics

- Updates & Registration
- Requesting Pay Items
  - Opening Items with and existing pay item structure
  - Creating new pay item structures
  - Generic Pay Items for Utilities
- Coordination with Specs, Design Standards, and other manuals/handbooks
- Summary Boxes - brief review
  - Separate webinars are available for more detail
  - See ECSO for CADD/QM webinars
  - See Program Management for BOE/Pay Item webinars

BOE Update Training will be offered at the FDOT Training Expo in June.
Basis of Estimates-
Updates and Registration

Updates and Registration are completed through the Contact Database
Free to Register
Used by Construction, Roadway, and others

http://www.dot.state.fl.us/projectmanagementoffice/contactdatabase.shtm
Basis of Estimates - Requesting Pay Items

- Opening Items with and existing pay item structure
  - Allow 24 hours
  - Requested at phase 2 (60% plans)

- Creating new pay item structures
  - Specifications?
  - Standards?
  - Handbooks, Manuals (PPM, CPAM, etc.)?
  - Unusual project conditions?

- Generic Pay Items for Utilities
  - Great for Utility category/JPA projects
  - DO NOT USE for other work
  - Refer to conditions in Chapter 6

Watch for “special” items with a monitor, developmental specs, or unusual conditions. These may require additional time for review/approvals.
• Pay Item Numbers correspond to the Spec Section!
  • 350-2-abb
    • 350= Specification Section 350
    • 2= pay item group
    • abb= variables for operation, size, shape, etc.

• Developmental/Special Pay Items
  • 915-350-1
    • 9= Special
    • 15= year initiated
    • 350= Specification Section 350
### Basis of Estimates - Coordination with others

- **Coordination with Specs, Design Standards, and other manuals/handbooks**
  - Description
  - Materials
  - Construction or Acceptance Criteria
  - Method of Measurement
  - Basis of Payment

- **Pay Item Notes**
  - Quantity details: use the Summary Box, Design Notes Column
  - Materials details: coordinate with specifications
  - Manufacturer/Supplier details: coordinate with Product Evaluation before restricting products
What Goes Where?

- Instructions to the Designer
  - Plans Preparation Manual
  - Instructions for Design Standards (IDS)

- Instructions to the Contractor
  - Design Standards
  - Specifications

- Other Handbooks & Manuals
  - Basis of Estimates (BOE)
  - Structures Design Guidelines
  - Manual of Uniform Traffic Control Devices (MUTCD)
  - Traffic Engineering Manual (TEM)
  - Approved Products List (APL)
Originated by the State Construction Office, Summary Boxes provide documentation of pay items and quantities by location. They also meet the Department’s goal of Consistent, Predictable, Repeatable practices.

- Separate webinars are available for CADD/QM coordination
- Separate webinars are available for Pay Item/Plans coordination for Estimators and Reviewers

CADD contact: Denise.Broom@dot.state.fl.us
Estimates contact: Melissa.Hollis@dot.state.fl.us
Basis of Estimates - Summary Boxes (Chapter 8)

- Use the provided Summary Boxes; do NOT create your own
- Add/Delete columns or rows, only for pay items intended on that summary box
- Every pay item must be shown on a Summary Box; no more comp books
- Summary Box order - shown in Chapter 8 is in pay item order
- Items are summarized by location; do NOT delete locations, sub totals, or construction notes
- PENDING: Populated examples of all tables
- Call or e-mail for project specific situations; additional details and examples are added as needed.

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Thank You
for your time and participation. We appreciate your feedback.

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Estimates contact: Melissa.Hollis@dot.state.fl.us
Project Specific Issues: contact your FDOT Project Manager