



# Basis of Estimates & Preparation of the Proposal Summary of Quantities

BT-05-0116 for Design Conference 2008

Melissa Hollis & Cheri Sylvester  
Estimating Systems Support  
State Specifications and Estimates Office  
July 2008

1



## Objective

- This course will provide District and consultant designers with tools and instructions for preparing the Proposal Summary of Quantities for inclusion in the plan set.

2

## Objective, *continued*

- This course is NOT
  - FDOT Estimating (Official Estimate)
  - CADD Quantities Manager
  - Compbook Preparation

3

## Outline

1. Basis of Estimates Manual overview
2. Pay item structure
3. Coordination of pay items, specifications, standards and other contract documents
4. Requesting/opening new pay items

4

## Outline, continued

5. Overview of Estimating Systems (LRE, Trns•port and other tools)
6. Webgate, including loading items and quantities into the Designer Interface
7. Trns•port Reports and other Standard Reports
8. Alternative Contracting

5

## Outline

- 1. Basis of Estimates Manual overview**
2. Pay item structure
3. Coordination of pay items, specifications, standards and other contract documents
4. Requesting/opening new pay items

6

## 1. Basis of Estimates Manual

- Online Document
  - **NOT** a contract document
  - Manual 600-000-002
  - For reference purposes only
    - design
    - estimates
    - construction



7

## 1. Basis of Estimates Manual

- Updated Semi-annually
  - Major changes implemented with the January and July lettings
  - Estimates Bulletins for major issues
  - Minor changes published as needed (updated details, expanded options, etc.)

8

## 1. Basis of Estimates Manual

- General Information (Chapters 1-10)
- Pay Item Information (11-20)
- Appendices

9

## 1. Basis of Estimates Manual

- General Information
  - Chapter 1: Updates & Registration

Contact  
Database  
Login

my Florida.com  
Florida Department of Transportation  
Contact Management [Help](#)

Create a new account to receive notices about specific publications or training offered by the Florida Department of Transportation. You may revise your preferences at any time by returning to the "Returning Subscribers" area.

\*Required fields

**Never been here before?**

New Subscribers  
Create new account

Existing Subscribers

\* Email

\* Password

[Forgot your Password?](#)

This site is maintained by the  
FDOT Office of Information Systems  
Questions or Comments?  
Please Contact  
[888.285.4282](tel:888.285.4282), [888.8.1.141](tel:888.8.1.141)  
[FDOT.Services@fdot.state.fl.us](mailto:FDOT.Services@fdot.state.fl.us)

10

## 1. Basis of Estimates Manual

- General Information
  - Chapter 2: Units of Measure
  - Chapter 3: Alphabetical List
    - General Starting point to identify section
    - Use search within known section
  - Chapter 4: Blank for future

11

## 1. Basis of Estimates Manual

- General Information
  - Chapter 5: Contact Lists
    - C-Team
    - District Coordinators
    - Responsible Office, by pay item range
  - Chapter 6: Pay Items
    - New/Open Requests
    - ... more later in this presentation
  - Chapter 7: Design Aids (see PPM)

12

## 1. Basis of Estimates Manual

### ■ General Information

- Chapter 8: Forms
  - CADD: CADD Office
  - COMP: Construction Office
- Chapter 9: Webgate\*
- Chapter 10: Formatting Pay Items\*

\*... more later in this presentation

13

## 1. Basis of Estimates Manual

### ■ Pay Item Information

- Chapter 11: 100s
  - Mobilization
  - Maintenance of Traffic
  - Erosion Control
  - Earthwork
  - Stabilization



14

## 1. Basis of Estimates Manual

### ■ Pay Item Information

- Chapter 12: 200s
  - Base Courses
  - Optional Base
- Chapter 13: 300s
  - Milling
  - Asphalt
  - Concrete Pavement

15

## 1. Basis of Estimates Manual

### ■ Pay Item Information

- Chapter 14: 400s
  - Structures
  - Drainage
    - Inlets
    - Optional Pipe
    - Edgedrain
  - Structures Foundations

16

## 1. Basis of Estimates Manual

### ■ Pay Item Information

#### □ Chapter 15: 500s

- Movable Bridges
- Sidewalk
- Curb & Gutter
- Walls
- Guardrail
- Landscape

17

## 1. Basis of Estimates Manual

### ■ Pay Item Information

#### □ Chapter 16: 600s

- Signals
- Conduit
- Cabinets
- Detectors

18

## 1. Basis of Estimates Manual

### ■ Pay Item Information

#### □ Chapter 17: 700s

- Signing
- Striping
- Lighting
- Architecture
- ITS

19

## 1. Basis of Estimates Manual

### ■ Pay Item Information

#### □ Chapter 18: 800s

- Mass Transit (rail)

#### □ Chapter 19: 900s

- Special

#### □ Chapter 20: 1000s

- Utilities

20

# 1. Basis of Estimates Manual

## ■ Pay Item Information

- Unit, Accuracy, PQ
- Notes
- Details
- Related/Recommended Items
- Forms
- Documentation, References
- Pay Item Structure: 123-ABC-DEF

783- 1-ABC	ITS FIBER OPTIC CABLE		
Unit:	LF: M1	Accuracy:	Linear Foot: 10th of a Meter
PlanQuantity?	No		
<b>Notes</b>	For use in fiber optic networks that support ITS devices and their connection to communication hubs, transportation management centers, and related facilities. Use "overhead" for installations involving bridges and other aboveground structures. Use "underground" for cable placed in buried conduit along the roadside.		
<b>Details</b>			
<b>Related Items</b>	Required	Recommended	
<b>Forms</b>	Design	5/ITabQuant	CCMP 703-050-03
	Construction	Refer to Comp Book	
<b>Documentation</b>	Design	Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.	
	Construction	Record final quantity on the tabulation sheet (plans) or computation form (comp book).	
<b>References</b>	FPM Chapter	Vol 1, Chapter 7	
	Other		
	Standards		
	Specifications	Prep & Doc Manual Chapter(s)	
<b>Status</b>	783- 1-ABC	ITS FIBER OPTIC CABLE	LF
<b>Struct.</b>	A- Operation: 1 (Furnish & Install) 2 (Furnish) 3 (Install) 4 (Release) 5 (Adjust/Modify) B- Location: 1 (Overhead) 2 (Underground) C- Number of Fibers in Cable: 1 (2 to 12) 2 (13 to 48) 3 (49 to 96) 4 (97 to 144)		
<b>Notes</b>			

21

# 1. Basis of Estimates Manual

## ■ Appendices

- Past Updates/Cover Letters
- History (Obsolete Structure)
- Training Info, including this presentation

22

## Outline

- 1. Basis of Estimates Manual overview
- **2. Pay item structure**
- 3. Coordination of pay items, specifications, standards and other contract documents
- 4. Requesting/opening new pay items

23

## 2. Pay Item Structure

- 0123-ABC-DEF
  - Leading zero required in Trns•port
  - Dashes are provided on input screens
  - Omit leading zero on plans/specs
  - Blank spaces are significant

24

## 2. Pay Item Structure

- 0123-ABC-DEF
- **123 = Section Number**
  - 102: MOT
  - 285: Optional Base
  - 327: Milling
  - 334: Superpave
  - 400: Structures
  - 430: Drainage

25

## 2. Pay Item Structure

- 0123-ABC-DEF
- **123 = Section Number**
  - 536: Guardrail
  - 580: Landscape
  - 600s: Signals
  - 710: Paint
  - 715: Lighting
  - 750s: Architectural
  - 780s: ITS

**Watch the Section Number: If the specs don't apply, then likely the pay item doesn't either!**

26

## 2. Pay Item Structure

- 0123-ABC-DEF
- **ABC and DEF**
  - Variables are used to define
    - Operation (Furnish & Install, remove, relocate, etc)
    - Materials
    - Size
    - Shape

27

## 2. Pay Item Structure



### Too Few Items

Specs or plan details to distinguish between items;  
**mixed cost history** on each item

### Too Many items

Detailed pay item;  
**limited cost history** on each item. Details in specs or standards?



Grouped by similar cost history;  
**special** details in specs or plans



28

## 2. Pay Item Structure

- **Variables:** used to define parameters that have a significant effect on the price
- **Ranges:** used when items have a similar price

**Note: Consider **INSTALLED** cost...**

29

## 2. Pay Item Structure

- **Unit Price is the installed cost**
  - Unit Price = Materials + Equipment + Labor
  - Unit price on small quantities is normally higher, due to equipment/labor

30

## Price vs Quantity



31

## 2. Pay Item Structure

- Technical Specifications or Special Items may have “**extreme**” history, based on the project requirements
- **Estimators:** Use caution when pricing these items
- **Designers:** Coordination is important

(more on this later...)

32

## Quiz: Pay Items and Specifications

- Item Number 0104-10-2
- What Specification Section?
- **0104**-10-2 Synthetic Bales
- **Section 104**: Prevention, Control, and Abatement of Erosion and Water Pollution

33

## Quiz: Pay Items and Specifications

- Item Number 0334- 1-25
- What Specification Section?
- **0334**- 1-25 Superpave Asphaltic Concrete
- **Section 334**: Superpave Asphaltic Concrete



34

## Quiz: Pay Items and Specifications

- Item Number 0632- 8
- What Specification Section?
- **0632**- 8- Interconnect Cable
- **Section 632**: Signal and Interconnect Cable



Note: Sections 603 through 699 are for  
Traffic Control Devices  
(Signals plans, Signals category).

35

## Quiz: Pay Items and Specifications

- Item Number 0781-11-113
- What Specification Section?
- **0781**- 11-113 ITS Dynamic Message Sign
- **Section 781**: Intelligent Transportation Systems, Motorist Information Systems



Note: Sections 780 through 786 are for  
ITS work (ITS Plans, ITS Category).

36

## Quiz: Pay Items and Specifications

- **Work: Conduit**
- **What Item/Specification?**
  - 630: Signals
  - 715: Lighting
  - 783: ITS
  - 1050: Utilities
- Choose the item based on work to be performed (plans, category to match); detail quantity by location.
- **Future?**

37

## Quiz: Pay Items and Specifications

- **Work: Tree Protection**
- **What Item/Specification?**
- **580: Landscape**



- All landscape work is listed in the landscape plans with tabulation sheet, and paid under large/small plants (landscape category)

**Exception:** minor landscaping may be permitted in roadway plans (still landscape category) PPM Vol 2, Ch 26.

38

## Quiz: Pay Items and Specifications

### ■ Work: Electrical Work ■ What Item/Specification?

- 508: Movable Bridge
- 639: Signals
- 715: Lighting- incidental
- 750: Architectural
- 780: ITS- incidental
- 1050: Utilities- incidental



Read the specifications carefully;  
(plans, category to match).

39

## Outline

1. Basis of Estimates Manual overview
2. Pay item structure
- 3. Coordination of pay items, specifications, standards and other contract documents**
4. Requesting/opening new pay items

40

### 3. Coordination

- PS&E Package
  - Plans, Specs, & Estimate
- Estimate
  - Pay Items
  - Quantities
  - Prices

Note: Just as with plans, there are early estimates (LRE), phase estimates (Work Program), and the final bid package or “official” estimate.

### 3. Coordination

#### ■ Master Pay Item List

FBSP003 07/25/2009-10:27:43 Florida Department of Transportation Page: 26  
 Spec Year : 07  
 DISPLAYING ONLY VALID ITEMS  
 From: 0500 To: 0700

Item Number	Item Description	Unit	Spec	Obs	Valid	Obs	LRE Reference Price	
		Mean	Tech	Flag	Date	Date		
0649 33310	MULT ARM,PAI, WIND SPEED-110,DOUBLE ARM,W/O LOMINA IRE,	EA	11	Y	N	2007/10/01	\$25,000.00	
0649 33311	MULT ARM,PAI, WIND SPEED-110,DOUBLE ARM,W/O LOMINA IRE,	EA	11	Y	N	2007/10/01	\$25,000.00	
0649 33312	MULT ARM,PAI, WIND SPEED-110,DOUBLE ARM,W/O LOMINA IRE,	EA	11	Y	N	2007/10/01	\$25,000.00	
0649 33313	MULT ARM,PAI, WIND SPEED-110,DOUBLE ARM,W/O LOMINA IRE,	EA	11	Y	N	2008/03/01	\$25,790.77	
0649 33314	MULT ARM,PAI, WIND SPEED-110,DOUBLE ARM,W/O LOMINA IRE,	EA	11	Y	N	2007/10/01	\$25,000.00	
0649 33315	MULT ARM,PAI, WIND SPEED-110,DOUBLE ARM,W/O LOMINA IRE,	EA	11	Y	N	2007/10/01	\$25,196.00	
0649 33316	MULT ARM,PAI, WIND SPEED-110,DOUBLE ARM,W/O LOMINA IRE,	EA	11	Y	N	2008/03/01	\$25,000.00	
0649 33317	MULT ARM,PAI, WIND SPEED-110,DOUBLE ARM,W/O LOMINA IRE,	EA	11	Y	N	2007/10/01	\$26,704.99	
0649 33318	MULT ARM,PAI, WIND SPEED-110,DOUBLE ARM,W/O LOMINA IRE,	EA	11	Y	N	2007/10/01	\$25,000.00	
0649 33319	MULT ARM,PAI, WIND SPEED-110,DOUBLE ARM,W/O LOMINA IRE,	EA	11	Y	N	2007/10/01	\$25,000.00	
0649 33399	MULT ARM,PAI, WIND SPEED-110, CUSTOM ARM(S)	EA	11	T	Y	2007/10/01	\$49,169.99	
0649 31999	MULT ARM,PAI, CUSTOM WIND SPEED, CUSTOM ARM LENGTH(S)	EA	11	Y	N	2008/03/01	\$66,900.00	
0649 33000	MULT ARM, INSTALL	EA	11	Y	N	2007/03/01	0.00	
0649 34000	MULT ARM, RELOCATE	EA	11	Y	N	2007/03/01	\$14,239.90	
0649411001	M/ARM, PA1/HL, SGL ARM W/O LUM, 1ST ARM-B1, 2ND ARM-NONE,	EA	11	Y	N	2007/03/01	2007/12/31	\$29,146.43
0649411002	M/ARM, PA1/HL, SGL ARM W/O LUM, 1ST ARM-B1, 2ND ARM-NONE,	EA	11	Y	N	2007/03/01	2007/12/31	\$25,000.00
0649411003	M/ARM, PA1/HL, SGL ARM W/O LUM, 1ST ARM-B1, 2ND ARM-NONE,	EA	11	Y	N	2007/03/01	2007/12/31	\$28,504.55

### 3. Coordination

#### ■ Specifications

- Description
- Materials
- Construction
- Method of Measurement
- Basis of Payment

**Watch the Section Number:** If the specs don't apply, then likely the pay item doesn't either!

### 3. Coordination

#### ■ Standard Road Index

515- 2-ABB PEDESTRIAN/BICYCLE RAILING	
Unit	LF; M1
Accuracy	Linear Foot; 10th of a Meter
PlanQuantity?	yes
<b>Notes</b>	
<b>Details</b>	To be used for pedestrian railing next to drop-offs greater than 30". Use in accordance with Structures Index 850 and 860; English standards may be used on metric projects. These specific rails replace the current two rail system, and are intended to be used when there is a drop-off next to a pedestrian or bicycle facility which must be protected. These rails are not intended for use on top of traffic barriers or where vehicle containment is required. For drop-off locations less than 30", consider item 515- 1. For other railings, refer to Structures Index series 800 and pay item 460- 70-xxa.
<b>Related Items</b>	
<b>Required</b>	
<b>Design</b>	SHTabQuant
<b>Recommended</b>	COMP 700-050-03
<b>Forms</b>	
<b>Construction</b>	Refer to Comp Book
<b>Documentation</b>	
<b>Design</b>	Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book. PLAN QUANTITY will be basis of payment to the Contractor.
<b>Construction</b>	Final pay quantity will be PLAN QUANTITY with proper consideration for Specification tolerances.
<b>References</b>	
<b>PPM Chapter</b>	Vol 1, Section 8.8
<b>Other</b>	
<b>Standards</b>	Index No. 850 or 860
<b>Specifications</b>	
<b>Prep &amp; Doc Manual Chapter(s)</b>	

### 3. Coordination

- When is it okay to use a plan note, rather than a Tech Spec?

45

### 3. Coordination

#### ■ Designer

- Ensure that the drawings (plan sheets, standards), specs (special provisions, supplemental specifications, Tech Specs), and pay items agree
- Any conflicts could result in supplemental agreements.



46

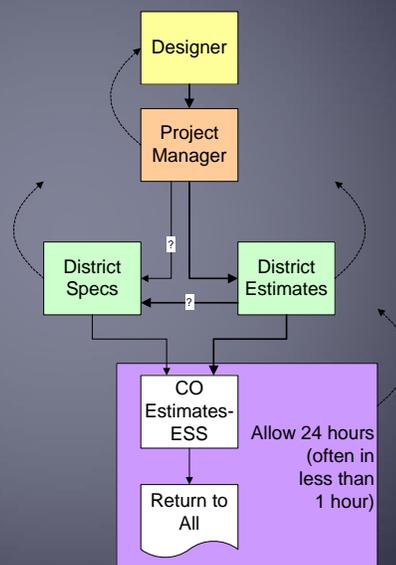
## Outline

1. Basis of Estimates Manual overview
2. Pay item structure
3. Coordination of pay items, specifications, standards and other contract documents
- 4. Requesting/opening new pay items**

47

## 4. Requesting/opening new pay items

- Who?
- What?
- When?
- Where?
- How?
- Why?



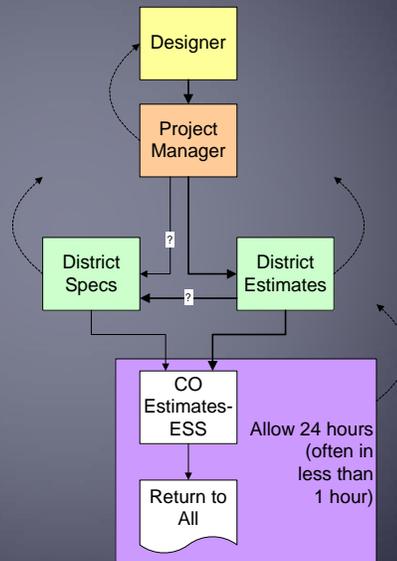
48

## 4. Requesting/opening new pay items

### Who?

**Designer** requests items from the District Estimates Office, through the FDOT Project Manager.

**District Estimates** reviews the request; they coordinate with District Specs, as necessary.

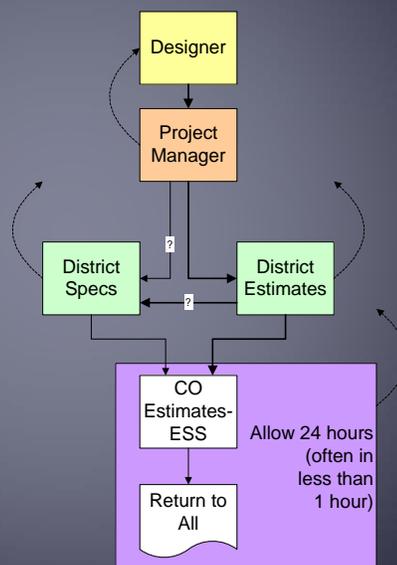


49

## 4. Requesting/opening new pay items

### Who?

**CO Estimates- Estimating Systems Support Section** (our group) reviews and opens the items\*



50

## 4. Requesting/opening new pay items

### ■ Request reviewed for:

- Valid item structure
- Valid for project's letting date
- Specifications available
- Details and/or standards available



51

## 4. Requesting/opening new pay items

### ■ What?

- A sample e-mail is included in Chapter 6.
- Include:
  - Project Number
  - Letting Date
  - Description and units from BOE
  - Consultant Name
  - Contact Number

52

## 4. Requesting/opening new pay items

### ■ When?

- At Phase II, when pay items are loaded into Trnsport



Failure to do your job in a timely manner...

53

## 4. Requesting/opening new pay items

### ■ Where?

Items and Categories (by design groups)

Use item(s) applicable for the category



54

## 4. Requesting/opening new pay items

### ■ How?

How long does it take?

**Opening an item:** 5 minutes  
with coordinated specs/details



**Creating a new item:** 10 minutes  
once the specs, drawings, and form  
are completed

55

## 4. Requesting/opening new pay items

### ■ Why not use an existing item that is “close enough”?

- ❑ Skews Cost History
- ❑ Avoids development of a new item/product/ specification
- ❑ Introduces Claims due to non-standard use (or incomplete specs/details)

56

## 4. Requesting/opening new pay items

### ■ Additional Reviews

- Special
- Custom
- Furnish
- Install



Plan Details  
and/or Tech Spec  
Required

57

## The envelope, please...



58

## Outline, continued

### 5. Overview of Estimating Systems (LRE, Trns•port and other tools)

6. Webgate, including loading items and quantities into the Designer Interface
7. Trns•port Reports and other Standard Reports
8. Alternative Contracting

59

## 5. Overview of Estimating Systems

### ■ Tools Available:

- LRE - Long Range Estimates System
- Designer Interface
- Trns•port System (FDOT Only)
- Trns•port Reports
- MRE - Managed Reporting Environment:  
Custom Reports (FDOT Only)

60

## 5. Overview of Estimating Systems

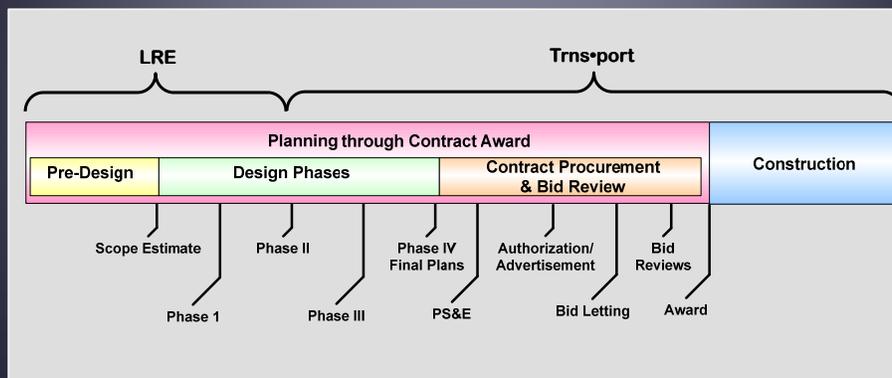
### ■ Passwords and Security

- WebGate, LRE, Designer Interface, Reports:  
RACF or Mainframe UserID/password  
Contact your FDOT Project Manager to reset your mainframe password.
- CITRIX (access to Trns•port modules):  
Windows or FDOT Network UserID/password
- Trns•port Modules- PES, CES, etc:  
Trns•port UserID/password

61

## 5. Overview of Estimating Systems

### ■ Systems Timeline



62

## 5. Overview of Estimating Systems

### ■ LRE: Long Range Estimates System

- ❑ Develop a budget estimate
- ❑ Before plans/quantities are available
- ❑ Based on typical section(s) and length
- ❑ Assumed/averaged values
- ❑ Historical prices
- ❑ Refined as scope is updated



63

## 5. Overview of Estimating Systems

### ■ Trns•port

- ❑ Project Information from Financial Management System (FM)
- ❑ Pay Items & Quantities from Designer Interface
- ❑ Like items combine and quantities “roll-up” for pricing/bidding



64

## 5. Overview of Estimating Systems

### ■ Trns•port

Used by FDOT staff to develop the:

- Project (FPID: Financial Project ID Number)
- Proposal
- Contract



65

## 5. Overview of Estimating Systems

### ■ Project:

Single FPID number

### ■ Proposal:

One or more projects, combined under one number, for letting purposes

### ■ Contract:

Proposal after award

66

## Outline

5. Overview of Estimating Systems (LRE, Trns•port and other tools)
- 6. Webgate, including loading items and quantities into the Designer Interface**
7. Trns•port Reports and other Standard Reports
8. Alternative Contracting

67

## 6. Webgate & Designer Interface

### ■ Webgate



My Florida.com  
 Florida Department of Transportation

Search MyFlorida.com   [contact us](#) | [what's new](#) | [FAQ's](#) | [links](#)

[Basis of Estimates & Pay Item Information](#) | [Long Range Estimates \(LRE\)](#) | [Training](#) | [Estimates Bulletins](#) | [Additional Links](#)

### State Specifications and Estimates Office Estimates Section

**Welcome to the State Estimates Office.**

While much of the project estimate information is confidential until award, our office maintains and produces tool necessary to complete cost estimates.

- [TRNS\\*PORT WebGate](#); [DesignerInterface](#); [Reports](#)
- [Long Range Estimates](#)
- [Basis of Estimates 2008](#)

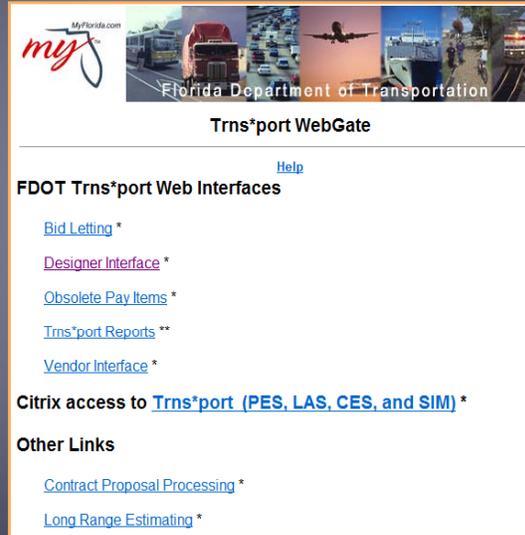
For more information on [Our Mission, Welcome, and Functional Statements](#), please visit our welcome page.

**Note:** The State Estimates Office works with projects throughout the Design process, including letting and award. For projects under construction, including **Monthly Estimates**, please visit the [State Construction Office's](#) web pages.

68

## 6. Webgate & Designer Interface

### ■ Webgate



MyFlorida.com  
my Florida

Florida Department of Transportation

Trns\*port WebGate

[Help](#)

**FDOT Trns\*port Web Interfaces**

[Bid Letting \\*](#)

[Designer Interface \\*](#)

[Obsolete Pay Items \\*](#)

[Trns\\*port Reports \\*\\*](#)

[Vendor Interface \\*](#)

Citrix access to [Trns\\*port \(PES, LAS, CES, and SIM\) \\*](#)

**Other Links**

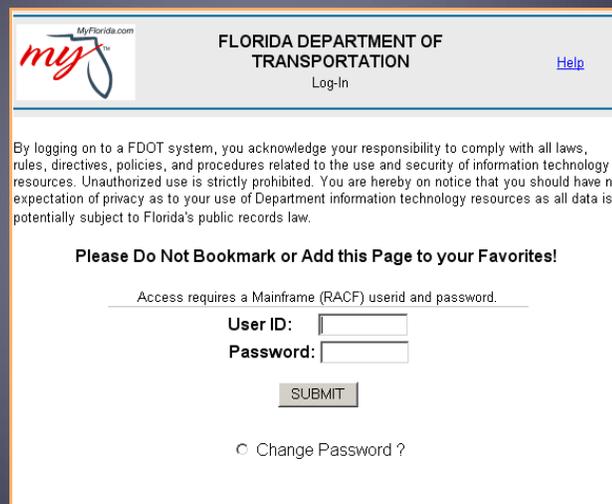
[Contract Proposal Processing \\*](#)

[Long Range Estimating \\*](#)

69

## 6. Webgate & Designer Interface

### Login Screen



MyFlorida.com  
my Florida

FLORIDA DEPARTMENT OF TRANSPORTATION

Log-In [Help](#)

By logging on to a FDOT system, you acknowledge your responsibility to comply with all laws, rules, directives, policies, and procedures related to the use and security of information technology resources. Unauthorized use is strictly prohibited. You are hereby on notice that you should have no expectation of privacy as to your use of Department information technology resources as all data is potentially subject to Florida's public records law.

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

Access requires a Mainframe (RACF) userid and password.

User ID:

Password:

[Change Password ?](#)

70

## 6. Webgate & Designer Interface

### ■ Webgate

- ❑ RACF UserID & Password
  - NOT Windows ID/password
  - NOT Network ID/password
  - Is “Mainframe” or “DOTNET” ID/password
- ❑ 3 “tries” (invalid entries) causes account to become locked
- ❑ Account & password reset by Help Desk; contact FDOT Project Manager for assistance

71

## 6. Webgate & Designer Interface

### ■ Designer Interface

- ❑ Used by FDOT and Consultant Designers
- ❑ Loads pay items and quantities into Trns•port
- ❑ Also, used for loading pay item data from Quantities Manager
- ❑ Remember to load pay items into the appropriate category/categories

**Trns•port Category** = Design Group  
(Structures, Roadway, Signing, Lighting, etc.)

72

## 6. Webgate & Designer Interface

### ■ Designer Interface

Florida Department of Transportation  
TRNS'PORT Designer Interface for the  
Project Estimating System

Project List for ES968SC Control Group = C\*  
2399 Records were found. Record 81 through 168. Page 2 of 29.

Project Status	Project Number	secXML Process	Description	Letting Date	Unit System
Update	19571825604	Import Export	SR 739 NEW ROAD CONSTRUCTION		E
Update	19571915201	Import Export	SR 739 NEW ROAD CONSTRUCTION	7/24/2013	E
Update	19571915204	Import Export	SR 739 NEW ROAD CONSTRUCTION	7/24/2013	E
Update	19571915206	Import Export	SR 739 NEW ROAD CONSTRUCTION	7/26/2006	E
Update	19571915602	Import Export	SR 739 NEW ROAD CONSTRUCTION	7/24/2013	E
Update	19571915701	Import Export	SR 739 NEW ROAD CONSTRUCTION	7/24/2013	E
Update	19576515201	Import Export	US 41 ADD LANES & REHABILITATE PVMNT	7/28/2010	E
Update	19576515201RS	Import Export	US 41 ADD LANES & REHABILITATE PVMNT	7/28/2010	E
Update	19580825201	Import Export	SR 789 RESURFACING	2/25/2009	E

73

## 6. Webgate & Designer Interface

### ■ Designer Interface

Florida Department of Transportation  
TRNS'PORT Designer Interface for the  
Project Estimating System

Project 19580825201 : Category Details

Federal Project Number	N/A	County Section	13080000	Location	FROM SARASOTA C/L TO LONGBOAT PASS BRIDGE		
Work Mix	X3	Project Type	X3	Project Work Type	X3	Urban/Rural Code	U
Beginning Termination	000000.000	Ending Termination	000004.545	Proposed Letting Date	2/25/2009	Spec YR	07

Return To Project List    Process Deletes    Add Category

Copy Selected Category    0200 Roadway

Delete	Category Number	Description	Alt Code	Bridge ID	Bid Option	Update	Items	View
<input type="checkbox"/>	0200	Roadway				Update	Items	View
<input type="checkbox"/>	0300	Signing				Update	Items	View

74

## 6. Webgate & Designer Interface

### ■ Designer Interface

MyFlorida.com  
**Florida Department of Transportation**  
**TRNS\*PORT Designer Interface for the**  
**Project Estimating System**

[Import](#) | [Export](#) | [Help](#)

**Project 19580825201 : Category 0200 Roadway**

UPD DEL Line #	Item #	Alt. Code	Qty	Description	Units	Sec.	Units Non Part.
<input type="checkbox"/>	0005 0101 1		1	MOBILIZATION	LS		<input type="checkbox"/>
<input type="checkbox"/>	0010 0102 1		80	MAINTENANCE OF TRAFFIC	LS	DA	<input type="checkbox"/>
<input type="checkbox"/>	0015 0102 3		500	COMMERCIAL MATL FOR DRIVEWAY MAINT	CY		<input type="checkbox"/>
<input type="checkbox"/>	0020 0102 60		1616	WORK ZONE SIGN	ED		<input type="checkbox"/>
<input type="checkbox"/>	0025 0102 74 1		5451	BARRICADE, TEMP, TYP S I, I, D, I, V, P & DRUM	ED		<input type="checkbox"/>
<input type="checkbox"/>	0030 0102 77		1920	HIGH INTENSITY FLASH LI, TEMP, TYP B	ED		<input type="checkbox"/>
<input type="checkbox"/>	0035 0102 78		1681	REFLECTIVE PAVT MARKER, TEMPORARY	EA		<input type="checkbox"/>
<input type="checkbox"/>	0040 0104 10 2		678	SYNTHETIC BALES	LF		<input type="checkbox"/>
<input type="checkbox"/>	0045 0104 15		2	SOIL TRACKING PREVENTION DEVICE	EA		<input type="checkbox"/>
<input type="checkbox"/>	0050 0104 16		80	ROCK BAG	EA		<input type="checkbox"/>
<input type="checkbox"/>	0055 0110 1 1		1	CLEARING & GRUBBING	LS	AC	<input type="checkbox"/>
<input type="checkbox"/>	0060 0110 4		1	REMOVAL OF EXISTING CONCRETE PAVEMENT	SY		<input type="checkbox"/>
<input type="checkbox"/>	0065 0110 7 1		41	MAILBOX, F&I SINGLE	EA		<input type="checkbox"/>
<input type="checkbox"/>	0070 0120 1		1	REGULAR EXCAVATION	CY		<input type="checkbox"/>
<input type="checkbox"/>	0075 0120 6		1	EMBANKMENT	CY		<input type="checkbox"/>
<input type="checkbox"/>	0080 0327 70 6		1	MILLING EXIST ASPH PAVT, 1 1/2" AVG DEPTH	SY		<input type="checkbox"/>

75

## 6. Webgate & Designer Interface

### ■ Designer Interface

MyFlorida.com  
**Florida Department of Transportation**  
**TRNS\*PORT Designer Interface for the**  
**Project Estimating System**

[Import](#) | [Export](#) | [Help](#)

**Project 19580825201 : Category 0200 Roadway : Add New Items**

Item #	Alt. Code	Quantity
		1
		1
		1
		1
		1
		1
		1
		1
		1
		1
		1
		1

76

## 6. Webgate & Designer Interface

### ■ Designer Interface

Update	196076252LS	<a href="#">Import</a> <a href="#">Export</a>	SR 684 (CORTEZ ROAD) RESURFACING	7/29/2008
Update	19609325201	<a href="#">Import</a> <a href="#">Export</a>	US 301 (SR 43) PRELIMINARY ENGINEERING	7/30/2008
Update	19614115201	<a href="#">Import</a> <a href="#">Export</a>	SR 29 (BRIDGE ST) BRIDGE REPAIR/REHABILITATION	2/24/2010
Update	19680323101	<a href="#">Import</a> <a href="#">Export</a>	US 441 (PARROTT AVE) RESURFACING	5/21/2003
Update	19682223101	<a href="#">Import</a> <a href="#">Export</a>	US 441 (PARROTT AVE) RESURFACING	5/21/2003
Update	19685623101	<a href="#">Import</a> <a href="#">Export</a>	US 98 (SR 15) RESURFACING	2/28/2003
Update	19685623101	<a href="#">Import</a> <a href="#">Export</a>	SR 78 RESURFACING	5/21/2003
Update	196863252LS	<a href="#">Import</a> <a href="#">Export</a>	SR 710 RESURFACING	7/27/2005

77

## 6. Webgate & Designer Interface

### ■ Designer Interface



**Florida Department of Transportation**  
**TRNS'PORT Designer Interface for the**  
**Project Estimating System**

[Import](#) | [Export](#) | [Help](#)

**Project 19614115201 : Category Details**

Federal Project Number	N/A	County Section	07060000	Location	OVER CALOOSAHATCHEE RIVER BR# 070033(LABELLE DRAW)		
Work Mix	X6	Project Type	X6	Project Work Type	X6	Urban/Rural Code	U
Beginning Termination	000017.486	Ending Termination	000017.581	Proposed Letting Date	2/24/2010	Spec YR	07

0100 Structures ▾

Delete	Category Number	Description	Alt Code	Bridge ID	Bid Option	Update	Items	View
<input type="checkbox"/>	0100	Structures		070033		<input type="button" value="Update"/>	<input type="button" value="Items"/>	<input type="button" value="View"/>

78

## 6. Webgate & Designer Interface

### ■ Designer Interface

Project 19614115201 : Update Category 0100 Structures

[Return To Project](#)

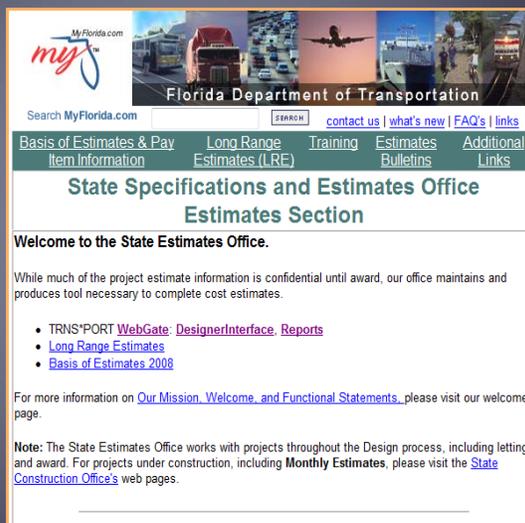
[Save Category](#)

Type	Structures
Bid Option	(None) ▼
Alternate Code	
Bridge Length (Feet)	1
Bridge Width (Feet)	1
Number of Spans	1
Bridge Type	5 Movable Bridge ▼
Bridge ID	070033
Begin Termini	000017.486
End Termini	000017.581
Super Structure Type	3 AASHTO Girder ▼
Sub Structure Type	0 Combination ▼
Foundation Type	1 Prestressed Sq. Piles ▼
Structure Location	W Over Water ▼
Structure Work Type	3 Bridge Repair ▼

79

## 7. Reports

### ■ Webgate



MyFlorida.com  
  
 Florida Department of Transportation

Search MyFlorida.com   [contact us](#) | [what's new](#) | [FAQ's](#) | [links](#)

[Basis of Estimates & Pay Item Information](#) | [Long Range Estimates \(LRF\)](#) | [Training](#) | [Estimates Bulletins](#) | [Additional Links](#)

### State Specifications and Estimates Office Estimates Section

**Welcome to the State Estimates Office.**

While much of the project estimate information is confidential until award, our office maintains and produces tool necessary to complete cost estimates.

- [TRNS\\*PORT WebGate: DesignerInterface, Reports](#)
- [Long Range Estimates](#)
- [Basis of Estimates 2008](#)

For more information on [Our Mission, Welcome, and Functional Statements](#), please visit our welcome page.

**Note:** The State Estimates Office works with projects throughout the Design process, including letting and award. For projects under construction, including **Monthly Estimates**, please visit the [State Construction Office's](#) web pages.

80

## Outline

5. Overview of Estimating Systems (LRE, Trns•port and other tools)
6. Webgate - Loading items and quantities into the Designer Interface
- 7. Trns•port Reports and other Standard Reports**
8. Alternative Contracting

81

## 7. Reports

- **Trns•port Reports (project specific)**
  - Project Edit Report – review/check pay items and quantities loaded in Trns•port
  - Proposal Summary of Quantities – run this report as text file for inclusion in the plans
- **Other Reports**
  - Unit Cost Reports – research historical prices
  - Master Pay Item List – list of all active pay items

82

## 7. Reports

### ■ Webgate



MyFlorida.com  
myj

Florida Department of Transportation

Search MyFlorida.com   [contact us](#) | [what's new](#) | [FAQ's](#) | [links](#)

[Basis of Estimates & Pay Item Information](#) | [Long Range Estimates \(LRE\)](#) | [Training](#) | [Estimates Bulletins](#) | [Additional Links](#)

### State Specifications and Estimates Office Estimates Section

**Welcome to the State Estimates Office.**

While much of the project estimate information is confidential until award, our office maintains and produces tool necessary to complete cost estimates.

- TRNS\*PORT [WebGate](#), [DesignerInterface](#), [Reports](#)
- [Long Range Estimates](#)
- [Basis of Estimates 2008](#)

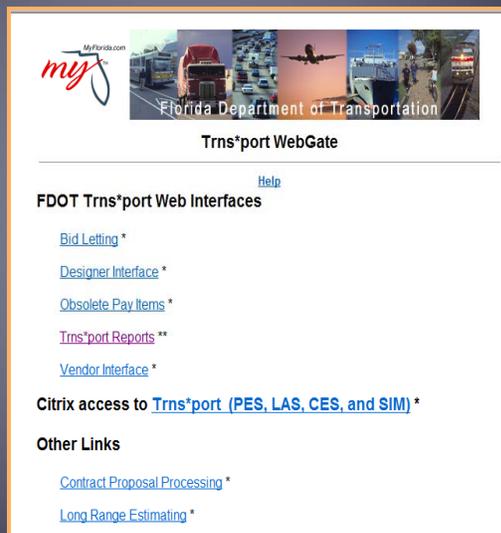
For more information on [Our Mission, Welcome, and Functional Statements](#), please visit our welcome page.

**Note:** The State Estimates Office works with projects throughout the Design process, including letting and award. For projects under construction, including [Monthly Estimates](#), please visit the [State Construction Office's](#) web pages.

83

## 7. Reports

### ■ Webgate



MyFlorida.com  
myj

Florida Department of Transportation

### Trns\*port WebGate

[Help](#)

**FDOT Trns\*port Web Interfaces**

- [Bid Letting](#) \*
- [Designer Interface](#) \*
- [Obsolete Pay Items](#) \*
- [Trns\\*port Reports](#) \*\*
- [Vendor Interface](#) \*

**Citrix access to [Trns\\*port \(PES, LAS, CES, and SIM\)](#) \***

**Other Links**

- [Contract Proposal Processing](#) \*
- [Long Range Estimating](#) \*

84

## 7. Reports

### ■ Project Edit Report

- Designers

- [Project Edit Report](#)
- [Master Pay Item List](#)
- [Proposal Summary of Pay Items \(CADD\)](#)
- [Project Summary of Pay Items \(CADD\)](#)
- [Project Summary of Pay Items](#)
- [Project Item List](#)
- [Pay Item Average Unit Cost](#) (drills down to pay item history)
- [Item Average Unit Cost](#)
- [Unit Of Measure Conversions](#)
- [Crosswalk Report](#)

85

## 7. Reports

### ■ Project Edit Report

The screenshot shows the web interface for the Project Edit Report. At the top left is the MyFlorida.com logo. The main heading is "Florida Department of Transportation Project Edit Report". Below this is a navigation link for "Reports Menu | Help".

On the left side, there is a grey box with the following text:
   
PESPO02: Project Edit Report
   
This report performs edits on the item records and will print a listing of any errors encountered. The selection criteria will be Finproj number.
   
Finproj is a required input parameter.

On the right side, under "Enter Parameters:", there is a text input field for "Finproj:" containing the value "19614115201".

Below that, under "Output Format:", there are three radio button options:
 

- PDF (selected)
- EXCEL
- HTML

At the bottom right, there are two buttons: "Submit" and "Reset".

86

# 7. Reports

## ■ Project Edit Report

PESPO02 06/30/2008-12.36.23		Page: 1	
Florida Department of Transportation Project Edit Report			
Financial Project:	19614115201	Project Item Year:	07
PA Project:	N/A	Description:	SR 29 (BRIDGE ST)
Contract:		Location:	OVER CALOOSAHATCHEE RIVER BR# 070033(LABELLE
Letting Date:	02/24/2010	Actual Work:	BRIDGE-REPAIR/REHABILITATION
Designer:		Type System:	03 Intrastate State Highway
Category -	0100 STRUCTURES	Bridge ID:	070033
Bridge Length:	1.0000	Bridge Width:	1.0000
Struc. Work Class:		Number of Spans:	1
Super Struc:	3 AASHTO Girder	Struc. Work Type:	3 Bridge Repair
Sub Struc. Type:	0 Combination	Foundation Type:	1 Prestressed Sq. Piles
Struc. Location:	W Over Water	Bridge Type:	5 Movable Bridge
		Bid Option:	
T	0104 11	PLANTING TURBIDITY BARRIERS	LF 200.000
	0401 70 1	RESTORE SPALLED AREAS, REPOY	CF 10.000
	0408 1 21	BRIDGE DECK EXPANSION JNT, REHAB,POURED	LF 200.000
	0440 1 5	STRUCT STEEL-REHAB, BASCULE LEAVES	LB 35000.000
	0440 1 15	STRUCT STEEL - REHAB, MISC.	LB 5000.000
	0460 6	LADDERS & PLATFORMS	LB 2000.000
T	0440 81	RIVETS - HIGH STRENGTH BOLTS, REPLACE	EA 400.000
T	0465 2101	MOV BRDG MACH & CAST-REHAB,F&I,SPRD	LE 1.000
T	0465 2105	MOV BRDG MACH & CAST-REHAB,F&I,SPAN LOCK	AS 2.000
T	0465 2108	MOV BRDG MACH & CAST-REHAB,F&I,LIVE LOAD	LE 1.000
T	0465 2154	MOV BRDG MACH & CAST-REHAB,F&I,HYDRAULIC	EA 2.000
T	0465 2404	MOV BRDG MACH & CAST-REHAB,SEC,TURBID	EA 4.000
T	0465 2605	MOV BRDG MACH & CAST-REHAB,RAD,SPAN LOCK	AS 2.000
T	0465 2608	MOV BRDG MACH & CAST-REHAB,RAD,LIVE LOAD	LE 1.000
T	0465 2 14	MOVABLE BRIDGE COUNTERWEIGHT, F&I,RENDR	EA 4.000
	0465 2 15	MOVABLE BRIDGE COUNTERWEIGHT, F&I,RENDR	EA 4.000

# 7. Reports

## ■ Project Edit Report

Tech Spec	Item Number	Alt	Item Description	Units
	0508 79 1		MOVABLE BRIDGE-REHAB, CONTROL CONSOLE, F&I	EA
	0508 79 4		MOVABLE BRIDGE-REHAB, CONTROL CONSOLE, REM	EA
	0508 80 1		MOVABLE BRIDGE-REHAB, BRAKE SYS, F&I	EA
T	0508 82 5		MOVABLE BRIDGE-REHAB, CONTROL PANEL, RPL	EA
	0560 1		PAINT STRUCT STEEL	LS
T	0712 70111		MOVABLE BRIDGE SIGNAL, F&I, TYPE I, 2 LANE	AS
			- Above item will become obsolete on: 2007/06/30	
T	0712 71 11		MOVABLE BRIDGE GATE, F&I, CLASS I, 1 LANE	AS
			- Above item will become obsolete on: 2007/06/30	
	0999 25		INITIAL CONTINGENCY AMOUNT, DO NOT BID	LS

\*\*\*\*\*  
\* PAY ITEM ERRORS FOUND  
\*\*\*\*\*

## 7. Reports

### ■ Proposal Summary of Quantities

- Run after proposal has been created; later design phases
  - Verify proposal quantities
  - Items “roll-up” properly
- Run by Designer
  - If Items added/deleted, District Estimator will run “Generate Section and Line Numbers” within Trns•port
  - Output viewed on screen and may be saved to user’s local drive
- No need to go to ftp site

89

## 7. Reports

### ■ Proposal Summary of Quantities

#### • Designers

- [Project Edit Report](#)
- [Master Pay Item List](#)
- [Proposal Summary of Pay Items \(CADD\)](#)
- [Project Summary of Pay Items \(CADD\)](#)
- [Project Summary of Pay Items](#)
- [Project Item List](#)
- [Pay Item Average Unit Cost](#) (drills down to pay item history)
- [Item Average Unit Cost](#)
- [Unit Of Measure Conversions](#)
- [Crosswalk Report](#)

90

## 7. Reports

### ■ Proposal Summary of Quantities

MyFlorida.com  
**Florida Department of Transportation**  
 Trns\*port Report Request Menu

Select Process: Proposal Summary of Pay Items ▾

Enter Input Data: T2195

Please use the Proposal ID for the input data  
 Submitted Processes for ES968SC

Refresh	ES968SC PPROJQTY 20962825201 Complete	View	Delete
	ES968SC PPROJQTY 20929475201 Complete		
	ES968SC PPROJQTY 20936135201 Complete		
	ES968SC PPROJQTY 40557835201 Complete		
	ES968SC PPROPQTY E3G78-R0 Complete		
	ES968SC PPROPQTY E4G92 Complete		
	ES968SC PPROPQTY T2195 Complete		

91

## 7. Reports

### ■ Proposal Summary of Quantities

MyFlorida.com  
**Florida Department of Transportation**  
 Trns\*port Report Request Menu

[Reports Menu](#) | [Help](#)

Trnsport Report Request for ES968SC T2195

The following file(s) will open in a new window. To ensure you receive the most recent version of the file, press the refresh/reload button on your browser toolbar after the new window has finished loading.

[T2195.TXT](#)

Click the Return button below to go back to the Trnsport Report Request Menu.

92

## 7. Reports

### ■ Proposal Summary of Quantities

1 DATE: 03/25/08 FLORIDA DEPARTMENT OF TRANSPORTATION PROPOSAL SUMMARY OF PAY ITEMS PAGE: 1 A0001

PROPOSAL : T2195 LEAD PROJECT : 20862825201 COUNTY : DUVAL MANDIST: 02  
 PROJECT(S) : 20862825201 COUNTY/SECTION: 72050000  
 20862825601 72050000  
 20934255201 72050000

0001 SUMMARY OF STRUCTURES		PAY ITEMS			
ALT	ITEM NUMBER	ITEM DESCRIPTION	UNIT	QUANTITY	TOTAL
	10110- 3-	REMOVAL OF EX	LS	1.000	1.000
	10458- 1- 21	BRIDGE DECK	LS	0.000	130.000
		FOURED JOINT			
	10515- 2-201	PEDESTRIAN	LS	360.000	360.000
		PICKET B			
	10521- 5- 8	CONCRETE	LS	360.000	360.000
		RETROF			
	10536- 73-	GUARD	LS	360.000	360.000
	10550- 10-315	FENCIL	LS	356.000	356.000

2 DATE: 03/25/08 FLORIDA DEPARTMENT OF TRANSPORTATION PROPOSAL SUMMARY OF PAY ITEMS PAGE: 2 A0002

PROPOSAL : T2195 LEAD PROJECT : 20862825201 COUNTY : DUVAL MANDIST: 02  
 PROJECT(S) : 20862825201 COUNTY/SECTION: 72050000  
 20862825601 72050000  
 20934255201 72050000

0002 SUMMARY OF ROADWAY		PAY ITEMS			
ALT	ITEM NUMBER	ITEM DESCRIPTION	UNIT	QUANTITY	TOTAL
	10101- 1-	IMOBILIZATION	LS	1.000	0.000
	10101- 1-	IMOBILIZATION	LS	0.000	1.000
	10102- 1-	MAINTENANCE OF TRAFFIC	LS	0.000	1.000
	10102- 1-	MAINTENANCE OF TRAFFIC	LS	1.000	0.000

93

If this file doesn't reflect your changes, hit the browser Refresh



## 7. Reports

### ■ Item Average Unit Cost

- State/Market/County
- Contract type
- Date Range
- Item Range

### ■ Pay Item Unit Cost

- Similar input as Item Average
- Specific Items
- Links to complete project list: awarded info

## 7. Reports

### ■ Unit Cost Reports

#### • Designers

- [Project Edit Report](#)
- [Master Pay Item List](#)
- [Proposal Summary of Pay Items \(CADD\)](#)
- [Project Summary of Pay Items \(CADD\)](#)
- [Project Summary of Pay Items](#)
- [Project Item List](#)
- [Pay Item Average Unit Cost \(drills down to pay item history\)](#)
- [Item Average Unit Cost](#)
- [Unit Of Measure Conversions](#)
- [Crosswalk Report](#)

95

## 7. Reports

### ■ Master Pay Item List

- Item Year (spec year, master file)
- Item Range
- Output format (.pdf)

### ■ CompBook Master Pay Item Extract (.xls)

- Project Let date
- Item Year (spec year, master file)

96

## 7. Reports

### ■ Master Pay Item List

#### • Designers

- [Project Edit Report](#)
- [Master Pay Item List](#)
- [Proposal Summary of Pay Items \(CADD\)](#)
- [Project Summary of Pay Items \(CADD\)](#)
- [Project Summary of Pay Items](#)
- [Project Item List](#)
- [Pay Item Average Unit Cost](#) (drills down to pay item history)
- [Item Average Unit Cost](#)
- [Unit Of Measure Conversions](#)
- [Crosswalk Report](#)

97

## 7. Reports

### ■ Compbook Master Pay Item Extract

#### • General

- [Master Payitem List](#)
- [Pay Item Average Unit Cost](#) (drills down to pay item history)
- [Unit Of Measure Conversions](#)
- [Crosswalk Report](#)
- [Compbook Master Pay Item Extract](#)

98

## Outline

5. Overview of Estimating Systems (LRE, Trns•port and other tools)
6. Webgate, including loading items and quantities into the Designer Interface
7. Trns•port Reports and other Standard Reports

## 8. Alternative Contracting

99

## 8. Alternative Contracting

### ■ Special Bid Proposals

- Alternates
  - Pay item level
  - Category level
- Bid Options
- Scope Alternates

100

## 8. Alternative Contracting

### ■ Bid Options Method

- Desired vs. Budget
- Contractor bids on all options
- Optional work may be omitted from the contract if bids are higher than budget
- Example: May omit landscaping or other stand alone work

101

## 8. Alternative Contracting

### ■ Scope Alternates

- 2 or more different designs (plans)
- Contractor bids on all alternates
- Contract will be awarded for the most cost effective bid (alternate), within budget
- Example:
  - Alternate 1 - Replace existing bridge
  - Alternate 2 - Widen existing bridge

102

## Contact Information

- [www.dot.state.fl.us/estimates](http://www.dot.state.fl.us/estimates)
- Helpful Hints handouts



103

# Questions?

104