



Basis of Estimates
Manual
2021

Introduction

BASIS OF ESTIMATES MANUAL

I.1 PURPOSE

The ***Basis of Estimates Manual*** sets forth the standard methods of documenting design quantities, as well as selection criteria, for pay items for Florida Department of Transportation (FDOT) projects.

Pay items are used to define, quantify, and pay for items of work to be completed on the Department's Maintenance and Construction Contracts.

I.2 AUTHORITY

Sections 334.044(2), 20.23(3)(a), and 334.048(3), Florida Statutes (F.S.)

I.3 SCOPE

This procedure impacts anyone preparing construction plans or specifications for the Department.

I.4 GENERAL INFORMATION

Chapter 334 of the ***Florida Statutes***, as part of the ***Florida Transportation Code***, establishes the responsibilities of the State, counties, and municipalities for the planning and development of the transportation systems serving the people of Florida, with the objective of assuring development of an integrated, balanced statewide system. The ***Code's*** purpose is to protect the safety and general welfare of the people of the State and to preserve and improve all transportation facilities in Florida. Under ***Sections 20.23(3)(a) and 334.048(3), F.S.***, the ***Code*** sets forth the powers and duties of the Department of Transportation including adopting rules, procedures and standards for the conduct of its business operations and the implementation of any provisions of law for which the Department is responsible.

I.5 DISTRIBUTION

This document is published online at <http://www.fdot.gov/programmanagement/>. Contacts, updates and registration information are available at the Basis of Estimates link on the above internet web page.

I.6 REGISTRATION

All users are encouraged to register online with the FDOT Project Management Contact Database located at <http://www.fdot.gov/designsupport/contactdatabase.shtm>. Registered users will receive e-mail notification of major updates and bulletins.

I.7 REVISIONS and UPDATES

Basis of Estimates users are encouraged to submit comments and suggestions for changes to this manual to the Program Management Office. When ideas or suggestions are received, they will be reviewed by appropriate Design and/or Construction staff in a timely manner, and will be coordinated with other offices affected by the proposed change. Issues warranting immediate change will be made with the approval of the State Estimates Engineer or State Program Management Engineer in the form of a *Program Management Bulletin*.

Program Management Bulletins will be posted online at <http://www.fdot.gov/programmanagement/>.

NOTE: Program Management Bulletins will remain effective until either:

- a) an official manual revision is published, or
- b) the Bulletin is made void.

The Program Management Office will coordinate proposed revisions or additions with affected offices within the Central Office. All new chapters and substantive revisions that result in policy change will be coordinated in accordance with the Forms and Procedures Office in accordance with **Procedure No. 025-020-002, Standard Operating System**, and the Executive Committee for concurrence.

Basis of Estimates Coordinator,
FDOT State Program Management Office
605 Suwannee St., MS 34
Tallahassee, FL 32399-0450
<http://www.fdot.gov/programmanagement/>

Updates are posted online at least twice a year. Issues resulting in a **Program Management Bulletin** will be updated as approved by the State Program Management Engineer. Additions, minor issues, or corrections not requiring a bulletin will be updated as needed.

I.8 TRAINING

No training required. Optional training for the **Basis of Estimates**, reports, and supporting computer systems is available through the Estimating Systems Support section of the State Program Management Office.

I.9 FORMS

The Pay Item Request form is available online at <http://www.fdot.gov/development/>
The use of this form is optional; refer to **Chapter 6** for complete information.

Revision History

This is the revision history for the **Introduction**; revisions to **Chapters 1-10** are located at the end of each chapter. Revisions and history of individual pay items is available through the State Specifications and Estimates Office, care of the Basis of Estimates Coordinator.

- 11-1-20:** Updated header for 2021 edition.
- 11-1-19:** Updated header for 2020 edition.
- 12-1-18:** Updated header for 2019 edition. Updated web links for fdot.gov web pages.
- 11-21-17:** Updated header for 2018 edition. Updated web links and references to Program Management Office.
- 10-4-16:** Updated header for 2017 edition.
- 12-30-14:** Updated header for 2015 edition.
- 1-15-14:** Updated header for 2014 edition. Added definition of a pay item.
- 2-20-13:** Updated header dates for 2013 edition.
- 11-23-11:** Updated header dates for 2012 edition.
- 12-1-10:** Updated header dates for 2011 edition.
- 12-9-09:** Expanded **Revisions and Updates** to include a limitation on the lifespan of an **Estimates Bulletin**.
- 10-30-09:** Updated header dates for 2010 edition.
- 6-30-09:** Removed draft watermark. Updated header date for publication.
- 11-14-08:** Updated internet links to current addresses.
- 11-5-08:** Updated formatting in accordance with Forms and Procedures Office's recommendations.
- 10-1-08:** Updated header dates for 2009 edition. Forms- added note to indicate form is optional.

Chapter 1

Updates and Registration

1.1 Registration

All users of the Basis of Estimates (BOE) are encouraged to register with the Contact Database at <http://www.fdot.gov/designsupport/contactdatabase.shtm>. Registration is free. Additional information about the contact database is available at the web page above.

1.2 Update Notices

An e-mail message is sent to all registered users when a bulletin or **major** update occurs.

Program Management Bulletins will be posted online for major pay item changes. E-mail messages will be sent when it is determined that an issue has a “significant impact” on a large number of projects. E-mail messages will only be sent with approval of the State Estimates Engineer.

Major changes and bulletins must be implemented according to the posted implementation schedule for the specific pay item(s). The implementation dates are scheduled to coordinate specifications, standards, and other design guidance.

Minor changes will be posted online, as needed. Note the revision date for the applicable file or chapter. A summary of minor changes will be posted online, with the major updates. Minor changes should be implemented in design as early as practical.

1.3 Proposed Changes

Users are encouraged to submit comments and suggestions for changes to the BOE. All items will be reviewed by the BOE Coordinator, and processed as follows:

- a) Pay item Issues: Refer to Chapter 6 for additional information.
- b) Formatting Issues: Evaluated by the BOE Coordinator.
- c) Other Content Issues: Evaluated by the BOE Coordinator and/or the responsible office.

Issues forwarded to the C-Team are processed as detailed in Chapter 6. Other issues requiring review will be discussed with the State Estimates Engineer and processed as recommended.

1.4 Submitting Proposed Updates

To submit a comment or suggestion, send the appropriate information to the BOE Coordinator or State Estimates Engineer. Contact Information is listed in Chapter 5, and on the State Program Management Office’s web pages.

Please include the complete pay item number (if applicable), a detailed explanation of the proposal, and contact information (if you would like a response).

1.5 Critical Dates for BOE Updates

In order to process changes in a timely manner, please submit proposed changes as early as possible. What may appear as a minor change for one office may result in major changes for another office. With assistance from the Coordination team, all issues should be resolved prior to announcement in a Bulletin or other posting.

The following dates are normal processing deadlines. Issues impacting a significant number of projects and/or dollar value may require longer or shorter processing times, as recommended by FDOT managers.

Updates to **Chapters 1-10: BOE Manual**, will be posted in November, along with other design documents. Updates to **Chapters 11-20: BOE Database** will continue to be updated within the Design Quantities and Estimates (DQE) application, as needed throughout the year. BOE Database changes are posted as early as possible; see Chapter 6 for additional information.

Approximate Date(s)	Activity	Groups/Individuals
Year-round	Submit Proposed Changes	FDOT Designers, Consultants, others
September 15-30	Update Chapters with proposed changes	BOE Coordinator
October 1	Drafts Posted*	BOE Coordinator
October 1-20	District Review	District Estimators, District Designers, others
October 20-31	Final Review	BOE Coordinator, State Estimates Engineer
November 1	Posting for July letting implementation	BOE Coordinator

*Issues which require coordination between multiple contract documents (specifications, standards, and/or pay items) or manuals should be submitted as early as possible; additional review and/or implementation time may be needed.

Chapter 1 Revision History

11-1-20: Update header dates for 2021 edition.

11-1-19: Update header dates for 2020 edition.

12-1-18: Update header dates for 2019 edition. Update web links for fdot.gov web page. Removed critical dates for 2016/2017 editions.

11-1-17: Update header dates for 2018 edition.

7-6-17: Update header dates for 2017 edition.

10-24-16: Update header dates for 2016 edition. Updated contact database hyperlink. Updated office titles. Updated critical dates.

- 7-26-16:** Updated 1.5 with proposed schedule for coordinated implementation.
- 11-25-15:** Updated header dates for 2016 edition. Added note to 1.5 regarding coordination with specs and standards implementation dates.
- 12-30-14:** Updated header dates for 2015 edition.
- 12-2-13:** Updated header dates for 2014 edition.
- 2-20-13:** Updated header dates for 2013 edition.
- 11-23-11:** Updated header dates for 2012 edition.
- 12-1-10:** Updated header dates for 2011 edition.
- 10-30-09:** Updated header dates for 2010 edition.
- 10-19-2009:** Removed cover letter reference; all major changes announced with a bulletin.
- 10-1-2008:** Updated header dates for 2009 edition.

Chapter 2 UNITS OF MEASURE

2.1 Abbreviations

Listed below are selected abbreviations used in the Basis of Estimates. For a more complete list of abbreviations, refer to the [Standard Plans](#).

NOTE: Pay item descriptions shown on various reports may be abbreviated as needed to fit “long” and “short” description fields of 80 and 40 characters, respectively. While every effort is made to be consistent, the abbreviated descriptions may vary from those shown on the Standard Plans.

Abbreviation	Unit of Measure	Precision
AC	Acre	0.01
AS	Assembly ¹	1
BF	Board Feet ³	1
CF	Cubic Foot	0.1
CY	Cubic Yard	0.1
DA	Day	1
EA	Each	1
ED	Each Day	1
FD	Feet·Day	1
GA	Gallon	1
GM	Gross Mile	0.001
HR	Hour	1
LB	Pound	1
LF	Linear Foot	1
LO	Location	1
LS	Lump Sum	1
LU	Luminaire ¹	1
MB	Board Measure/ Thousand Feet	0.1
MG	Thousand Gallons ³	1
MH	Man-hour ²	1
MI	Mile	0.001
MO	Month ³	1
NM	Net Mile ^{3, 4}	.001
PI	Per Intersection ¹	1
PM	Per Mile ^{3, 4}	1
PS	Per Set ¹	1
SF	Square Foot	1

SY	Square Yard	1
TN	Ton	0.1

¹ Units which will be replaced with unit of Each (EA) upon pay item/specification update. See details below.

² Units will be replaced with Hour (HR), upon pay item/specification update. See details below.

³ Unit used by Maintenance pay items only

⁴ Unit will be replaced with Mile (MI), upon pay item/specification update.

Per Item versus Each: Units of measure previously identified as assembly, luminaire, plant, or other will be changed to EA, as specifications are revised. The item's description should indicate the item to be measured with the EA unit of measure.

2.2 Secondary Units

Secondary Units apply to Lump Sum (LS) pay items. When a lump sum pay item has secondary units other than lump sum (LS/LS), the designer must enter the estimated secondary quantity into the Designer Interface. Estimating reports will show the secondary units for estimating purposes. The Project Summary, Proposal Summary, and other bid document reports will show the LS units with a quantity of 1.

Example: 102-1-1 Maintenance of Traffic, LS/DA has a secondary unit of days. After the designer enters the number of MOT days for that project number, estimating reports will show the number of days while the Proposal Summary of Quantities will show 1 LS.

For Lump Sum items with a secondary unit of Lump Sum (LS/LS), partial payments will be made based on the percentage completed, per Section 9 of the specifications. Percentage will be rounded to 2 decimal places (0.01 of the total quantity of 1).

Additional guidance for pay items with secondary units may be included with the pay item number details. Refer to BOE Chapter 9 for guidance on Supplementary Descriptions. Refer to Chapter 8 for guidance on documenting work and materials for Lump Sum items. NOTE: Lump Sum pay items are NOT PERMITTED on Push Button/Work Document Contracts. Additional details are included in Chapters 6 and 10.

2.3 Precision and Rounding

Precision is noted on the abbreviations table above. Calculations are performed with one additional significant figure, and then rounded to the above precision for measurement/payment.

As a quick guide, all units are paid to the nearest whole number, except for:

0.1: Cubic Yard, Cubic Foot, Tons, MB lumber

0.01: Acre

0.001: Gross Mile Stripe

Rounding shall be completed in accordance with the common rule: If the number you are rounding is followed by 5, 6, 7, 8, or 9, round the number up. If the number you are rounding is followed by 1, 2, 3, or 4, round the number down. DO NOT use “up rounding”, which will always round up the next value. For example: A calculated total of 132.3 ft should be shown as 132 ft, and NOT up rounded to 133 ft.

Chapter 2 Revision History

11-1-20: Updated header dates for 2020 edition. Added 2.3 heading for secondary units. Added FD Feet·Day, BF Board Feet, MG Thousand Gallons, MO Month, NM Net Mile, and PM Per Mile units of measure.

11-1-19: Updated header dates for 2020 edition. Removed old footnote for Mile (MI) units. Updated 2.1 guidance for Lump Sum pay items.

11-1-18: Updated header dates for 2019 edition. Deleted 2.3 metric conversion factors. Added note for item vs. each.

10-23-17: Updated header dates for 2018 edition. Added reference to Chapter 9 for Supplemental Description used with Lump Sum items.

6-22-17: Added LS/LS information for rounding partial payment percentage, per Final Estimates- Construction Office request.

10-25-16: Updated header dates for 2017 edition. Added abbreviations and rounding information. Removed discontinued section 2.4 Accuracy/Precision information updated in 2.1 and 2.2.

3-14-16: Added information for secondary units to 2.1.

2-1-16: Added note for removal of alphabetical list.

11-25-15: Updated header dates for 2015 edition. Corrected AC unit of measure to 1/100 AC.

12-30-14: Updated header dates for 2015 edition. Added end date to PM unit; refer to Rumble Strip pay items for details.

2-27-14: Removed units for Clean-out (CO), Bushel (BU), Dollars per Day (DD), Luminaire (LU).

12-2-13: Updated header dates for 2014 edition. Added note to 2.1 to indicate that abbreviated text for pay item descriptions may vary from with Design Standards. Moved Alphabetical list from Chapter 3 to 2.4.

2-20-13: Updated header dates for 2013 edition.

11-23-11: Updated header dates for 2012 edition.

12-1-10: Updated header dates for 2011 edition.

10-30-09: Updated header dates for 2010 edition.

1-28-09: Added 2.2 Accuracy. Renumbered 2.3 Conversion Factors.

10-1-08: Updated header dates for 2009 edition.

Chapter 3

ENGINEER'S ESTIMATES

This chapter is new; implementation will be at the discretion of the District Estimates Engineer for 2021. It is intended to assist the Designer with meeting the Estimates requirements in the [FDM](#), as well as meeting estimating needs of District Estimators, FDOT Project Managers, and others. The requirements are intended to compliment the FDM, Consultant Designer's Scope of Services, as well as current FDOT procedures.

Comments or suggestions are welcome; contact your District Estimates Engineer for district specific guidance.

3.1 General

Estimators are required to develop and review Construction Cost Estimates for all projects, throughout the Work Program. While the project is under design, the scope must be maintained, so that cost estimates correctly reflect the anticipated work. This chapter will address estimate requirements at each project phase, as well as periodic updates that may be required.

Terminology used:

Construction Cost Estimate: The Department's Estimate for all construction related costs.

NOTE: While these requirements apply to all projects, Districts may vary in who completes the data entry for the updates. The guidance below is written to the Designer/EOR, unless otherwise shown. However, Designers, Project Managers, and District Estimators must work together to ensure that all updates are completed in a timely manner, and fully reflect the project's anticipated work or scope.

3.2 Initial Work Program and Scope Estimates

The Initial Work Program and Scope Estimates are often completed by the Department, prior to a Consultant Design Contract being issued. These estimates are normally entered into the **Long Range Estimates (LRE)** system, based on available scope information and historical prices.

The purpose of these estimates is to determine a budget amount for the Work Program. For additional information, see procedures **600-010-005, Development & Review of the 5 Year Work Program Construction Cost Estimates**, and **600-010-001, Preparation of the Authorization/Official Construction Cost Estimate & Contract Bid Review Package**, available in the [Procedural Document Library](#).

3.3 Project Design Estimates

3.3.1 Phase I Estimate

Update the estimate to reflect any scope changes. **FDM 301/901** identifies preliminary information that should be available at this phase. Verify that the following items are correctly reflected in the Phase I Estimate:

- Typical Section(s)
- Right of Way widths
- Bridge and Bridge Culvert lengths and widths
- Curb and/or Sidewalk preliminary lengths
- Drainage needs, including open/closed system or retention ponds
- Other components, including Signalization, Lighting, Landscaping

While specific pay items and quantities may not be known at this phase, it is important that the estimate identify all anticipated work/scope.

3.3.2 Phase II Estimate

Update the estimate to reflect any scope changes. **FDM 301/901** identifies preliminary design information that should be available at this phase. Verify that the following items are correctly reflected in the Phase II Estimate:

- Typical Section(s)
- Right of Way widths
- Bridge and Bridge Culvert lengths and widths
- Curb and/or Sidewalk preliminary lengths
- Drainage Structures and Pipe Sizes
- Retention Pond Size
- Other components, including Signalization, Lighting, Landscaping

In addition to updating scope information for the Phase II Estimate, the **FDM** requires that pay items be loaded into the Designer Interface. This will help to identify specification and pay item needs that must be addressed before the Phase III submittal. Coordinate with the District Specifications and Estimates Office(s) for any non-standard specification or pay item needs. See the **Specifications Handbook** for additional specification guidance. See **BOE Chapter 6** for requesting pay items.

The District Estimator will update/review the Department's Phase II Cost Estimate using any combination of LRE, DQE, PrP AASHTOWARE, Phase II plans, and other scope information.

3.3.3 Phase III Estimates

FDM 301/901 requires that all pay items and quantities should be "complete, but subject to change". Verify that all items are correctly reflected in Estimated Quantities Report. Update pay items and quantities through the Designer Interface.

Notify the District Specifications and Estimates Offices of any pending non-standard

specifications or pay items, so that the Cost Estimates can reflect all anticipated work. The District Estimator may request the Designer/Engineer's Cost Estimate on specific pay items, especially Lump Sum pay items and those with non-standard specifications or pay items.

The District Estimator will update the Department's Phase III Cost Estimate, based on the pay items and quantities loaded through the Designer Interface. Project conditions, details, work, materials, and applicable specifications may be considered by the District Estimator.

3.3.4 Phase IV Estimates

FDM 301 calls for Work Zone Traffic Control pay items to be updated based on the established construction duration. Update all remaining pay items, including any changes due to non-standard specifications or pay items. Finalize the Estimated Quantities Report. Update the quantities through the Designer Interface.

The District Estimator will update the Department's Phase IV Cost Estimate, based on the pay items and quantities loaded through the Designer Interface. Project conditions, details, work, materials, and applicable specifications may be considered by the District Estimator when pricing the pay items.

3.3.5 PS&E Phase Estimates

Per the *FDM 301/901*, "after corrections noted during the Phase IV submittal review are completed and verified, the plans are referred to as Final Plans." **Projects with outstanding specifications or pay items are not ready to begin the PS&E phase.**

The District Estimator will begin preparation of the Department's Authorization Estimate. Project conditions, details, work, materials, and applicable specifications may be considered by the District Estimator when pricing the pay items.

Additional guidance on the cost estimates during this phase is available ***procedure 000-0000, Title.***

3.4 Revisions and Addenda

Coordinate with the District Estimator to update Authorization or Official Estimate. Provide updated Summary Box or EQ Report, as directed by the District Estimator.

3.5 Estimating Systems

Long Range Estimates (LRE): <https://fdotwp1.dot.state.fl.us/LongRangeEstimating/>

Webgate and Designer Interface:

<https://fdotwp1.dot.state.fl.us/WTWEBGATEREPORTS/WebGate.aspx>.

Design Quantities & Estimates (DQE): Estimates application for pre-letting activities. DQE has both public and secure pages. The application is located at:
<https://fdotwp1.dot.state.fl.us/designquantitiesandestimates>

The ***Basis of Estimates: Chapters 11-20 Database*** and ***Master Pay Item*** list are available to view/print on the DQE public pages. From the home page, select the Basis of Estimates or Master Pay Item link from the dark blue border at the top of the page; do NOT enter a userID/password.

Chapter 3 Revision History

11-1-20: Updated header dates for 2021 edition. Changed the scope of the chapter to address estimating guidance to Designers, working with FDM changes.

11-1-19: Updated header dates for 2020 edition.

12-1-18: Updated header dates for 2019 edition.

10-25-16: Updated header dates for 2017 edition. Ongoing draft text.

11-25-15: Updated header dates for 2016 edition.

12-30-14: Updated header dates for 2015 edition. Added DQE definition.

-14-14: Started adding DRAFT text for new section.

12-2-13: Deleted 3.2. Moved Alphabetical List to Chapter 2.

2-20-13: Updated header dates for 2013 edition.

11-23-11: Updated header dates for 2012 edition.

2-1-10: Updated header dates for 2011 edition.

5-14-10: Restored Alphabetical Index. Created explanation text for chapter.

10-30-09: Updated header dates for 2010 edition.

10-1-08: Updated header dates for 2009 edition. Deleted "Alphabetical Index" chapter. Users, please use search/find, as needed.

Chapter 4

PAY ITEMS AND ESTIMATES FOR ALTERNATIVE CONTRACTS

4.1 General Information

This chapter includes information to the designer and estimator. Additional instructions may be provided in the Construction Project Administration Manual (CPAM) and Estimates Handbook.

Designers should work with the District Specifications and Estimates Office(s) to ensure that the appropriate specifications and pay items are incorporated into the Alternative Contract.

4.2 Lump Sum Proposals

Lump sum contracting involves the contractor providing the Department with a lump sum price to complete a project, as opposed to bidding on individual pay items and quantities. The contractor is provided a set of bid documents and required to develop a lump sum bid for all work for the project.

4.2.1 Pay Items

Lump Sum proposals consist of one or more Lump Sum projects. The following is an example of a typical Lump Sum projects' pay items:

Pay Item	Description	Unit	Qty
999-2	Lump Sum Contract, Alternative Bidding (123456-1-52-01)	LS	1
999-25	Initial Contingency Amount, Do Not Bid (123456-1-52-01)	LS	1

Supplemental descriptions for each lump sum pay item are necessary to distinguish between projects when more than one project is in a proposal. See additional guidance in Chapter 9.

Complete Summary Boxes/Tabulation Sheets or Summary Tables, in accordance with Chapter 8, are still required for a lump sum project. Designers enter Pay Items in a duplicate project with the letters "LS" appended to the project number and a duplicate proposal is created with the letters "LS" appended to the proposal number, for estimating purposes.

4.2.2 DQE Instructions

Estimators will prepare a detailed estimate for the duplicate "LS" projects and proposal

and enter the total amounts in the projects and proposal used for bidding purposes.

4.2.3 Estimating Guidance

Ensure all pay items are included in Summary Boxes/Tabulation Sheets or Summary Tables in the plans.

4.3 Design-Build Proposals

Design-Build is a special type of lump sum project and proposal which combines the design and construction phases of one or more projects into a single proposal.

4.3.1 Pay Items

Design-Build proposals consist of one or more Design-Build projects. The following is an example of a typical Design-Build proposals' pay items:

Pay Item	Description	Unit	Qty
0-50-4	Design / Build, Bridge Construction (123456-1-52-01)	LS	1
0-50-4	Design / Build, Bridge Construction (123456-1-52-01)	LS	1
0-50-4	Design / Build, Bridge Construction (123456-2-52-01)	LS	1
999-16	Partnering, Do Not Bid (123456-1-52-01)	LS	1
999-20-1	Disputes Review Board, Meeting-Do Not Bid	DA	55
999-20-2	Disputes Review Board, Hearing-Do Not Bid	EA	2
999-25	Initial Contingency Amount, Do Not Bid (123456-1-52-01)	LS	1
999-25	Initial Contingency Amount, Do Not Bid (123456-2-52-01)	LS	1

Supplemental Descriptions for each lump sum pay item are necessary to distinguish between projects when more than one project is in a proposal. See additional guidance in Chapter 9.

4.3.2 DQE Instructions

Design-Build projects and proposals may be estimated in either LRE or DQE. Estimators will prepare a detailed estimate for the duplicate "DB" projects and proposal and enter the total amounts in the projects and proposal used for bidding purposes.

At this time the dollar amount is restricted to a maximum amount of \$99,999,999.99. If the Design-Build pay item estimated amount or anticipated bid amount is \$100,000,000.00 or more, enter multiples of the same pay item which will be combined for a total amount.

4.3.3 Estimating Guidance

An allowance for the design work is estimated either in LRE or DQE to account for the design fees for each project.

Even though Design-Build proposals follow a different procurement process than traditional Design-Bid-Build proposals, every Design-Build project and proposal has an Authorization Estimate and Official Estimate estimated in DQE by the Estimator.

4.4 Push-Button/Work Document Proposals

Push-button proposals are used to expeditiously resolve state roadway deficiencies at various locations concerning signalization, signing, pavement, pavement markings and other miscellaneous roadway deficiencies for a pre-determined contract term. Push-button proposals may be commonly referred to as Indefinite Delivery/Indefinite Quantity, Job Order, Task Work Order, or Work Document proposals. This contracting process establishes a defined scope of work to be completed by the Contractor and also includes establishing unit cost prices for predetermined work items which may be completed by the Contractor pursuant to the Department's issuance of Work Documents. The original scope of work as defined by the estimated number of units for each pay item is approximate and represents estimated planned work requirements based on historical or specific project needs. Work Documents will identify the location, description and amount of work to be performed. Under Push-button contracting, the Department does not guarantee any maximum quantity, minimum quantity, range of quantities, or work to be performed.

Award of Construction and Traffic Operations proposals are to be based on the Bid Factor method. Under this method, the Department provides quantities and predetermined Base Unit Prices for pay items which are included in the Contract Plans and Advertisement. In response to the Advertisement, bidders use the Department provided quantities and predetermined Base Unit Prices listed for each item to establish and include in their Bid Price Proposal a single Bid Factor expressed as a number carried out to 3 decimal places. The proposed Bid Factor will be applied to all predetermined pay item Base Unit Prices included in the Advertisement. The Bid Factor of 1.000 shall be 100% of the Base Unit Price, any number above 1.000 will increase the Base Unit Price, and any number below 1.000 will decrease the Base Unit Price. The lowest bidder will be determined by the lowest Bid Factor submitted in response to the Advertisement. Award of the contract is based upon the bidder who submits a responsive and responsible bid with the lowest Bid Factor.

4.4.1 Pay Items

Refer to Chapter 2 for guidance on Lump Sum pay items and alternative units of measure. Refer to Chapters 6 and 10 for use and formatting of Lump Sum pay items. Refer to Chapter 8 for additional guidance on documentation.

Designers will enter pay items through the Designer Interface into the proper Design Groups.

4.4.2 DQE Instructions

Estimators will prepare a balanced Authorization Estimate in DQE and coordinate with the State Estimates Office and Contracts Administration to set each pay item on the proposal to “fixed price” in AASHTOWare Project Preconstruction so that the Base Unit Prices will be displayed to the bidders.

Estimators will prepare an Official Estimate in DQE, in accordance with current procedures.

4.4.3 Estimating Guidance

In the past, the Department has experienced significantly unbalanced bids on Push-button contracts. These unbalanced bids limit the amount of work that can be performed under the contract. Therefore, it is important for the estimator to prepare an Authorization Estimate which is balanced. This Authorization Estimate Base Unit Price will be displayed to the bidders and the bidders will base their submitted single Bid Factor based on these prices.

An example of a Calculated Contract Unit Price is provided below:

Base Unit Price (\$439.20) x Bid Factor (0.988) = Calculated Contract Unit Price (\$433.93)

All Calculated Contract Unit Prices shall be rounded to the nearest penny. Payment under the executed contract is based upon actual quantities completed at the Calculated Contract Unit Price.

Please note that lump sum pay items are not included in Work Document contracts therefore the cost of lump sum items such as Mobilization are not accounted for in separate pay items and must be distributed among other items of work.

4.5 A + B Proposals

Cost-plus-time bidding or A + B bidding, where A is the standard construction cost and B is the time bid, is designed to shorten the total contract time by allowing each contractor to bid the number of days to construct the project.

4.5.1 Pay Items

No special pay items are needed for an A + B proposal.

4.5.2 DQE Instructions

No special actions are needed in DQE for A + B proposal estimating.

4.5.3 Estimating Guidance

The number of days and road user cost per day will be entered by the Estimator in the time tab for the proposal in AASHTOWare Project Preconstruction. See AASHTOWare Project Preconstruction Role Help for additional guidance.

Chapter 4 Revision History

- 11-1-20: Updated header dates for 2021 edition.
- 11-1-19: Updated entire chapter. Updated header dates for 2020 edition.
- 7-1-19: Updated 4.4 for Pay items on Push Button Contracts.
- 12-1-18: Updated header dates for 2019 edition.
- 10-31-17: Updated header dates for 2018 edition.
- 3-3-17: Draft started for Alternative Contracts. Moved text from BOE Chapter 6 to 4.1.
- 10-25-16: Updated header dates for 2017 edition.
- 11-25-15: Updated header dates for 2016 edition.
- 12-30-14: Updated header dates for 2015 edition.
- 4-30-14: Updated header dates for 2014 edition.
- 2-20-13: Updated header dates for 2013 edition.
- 11-23-11: Updated header dates for 2012 edition.
- 11-23-10: Updated header dates for 2011 edition.
- 10-30-09: Updated header dates for 2010 edition.
- 10-01-08: Updated header dates for 2009 edition.

Chapter 5 CONTACT LISTS

The Basis of Estimates is the result of coordination between District Estimates Offices and Central Office Design, Construction, and Maintenance. Following the pay item development processes, issues are identified in the districts, options are proposed through the Responsible Offices, and finally, recommendations are presented for management approval and statewide implementation.

In general, **Designers should coordinate with the FDOT Project Manager.** Pay item issues should be forwarded through the District Estimates and Specifications Coordinator(s) to the Central Office BOE Coordinator. Issues that require major changes (plans, standards, specifications, pay items, or other manuals) will be coordinated between the Responsible Offices, and any recommendations will be forwarded from the Coordination Team.

5.1 CENTRAL OFFICE PAY ITEM COORDINATORS

CENTRAL OFFICE	COORDINATOR	LOCAL
Estimates, Engineering Support Services		
Basis of Estimates	Melissa Hollis	850-414-4182
Long Range Estimates		
Administrator	Cheri Sylvester	850-414-4179
System Issues	Karen Veenstra	850-414-4751
Project Estimates	June Mobley	850-414-4191
Pay Items	Melissa Hollis	850-414-4182
DQE		
Administrator	Cheri Sylvester	850-414-4179
Project Estimates	June Mobley	850-414-4191
System Issues	Karen Veenstra	850-414-4751
Pay Items	Melissa Hollis	850-414-4182
Final Estimates	Kristin Tadlock	850-414-4280
Specifications		
	Daniel Strickland	850-414-4130
	Rebecca Frimmel	850-414-4155
Maintenance	Deanna Hutchison	850-410-5634
CADD- Summary Boxes	Kandi Daffin	850-414-4289

5.2 DISTRICT SPECIFICATIONS AND ESTIMATES COORDINATORS

A list of district specifications and estimates contact persons is available online at <http://www.dot.state.fl.us/programmanagement> .

5.3 CONTACTS - BY RESPONSIBLE OFFICE

Contact information is available on the following office web pages:

- Construction: <http://www.fdot.gov/construction/>
- Roadway Design: <http://www.fdot.gov/roadway/>
- Traffic Engineering and Operations: <http://www.fdot.gov/traffic/>
- Maintenance: <http://www.fdot.gov/maintenance/>
- Production Support: <http://www.fdot.gov/designsupport/>
- Program Management: <http://www.fdot.gov/programmanagement/>

Chapter 5 Revision History

- 11-1-20:** Updated header dates for 2021 edition.
- 11-1-19:** Updated header dates for 2020 edition. Updated LRE, DQE, and Specifications contacts.
- 12-1-18:** Updated header dates for 2019 edition. Updated Maintenance contacts.
- 7-16-18:** Updated Program Management contact names.
- 10-23-17:** Updated header dates for 2018 edition. Updated CADD and Specifications contacts. Replaced office contacts with web links to various offices.
- 10-25-16:** Updated header dates for 2017 edition.
- 5-24-16:** Updated names and phone numbers for responsible office contact persons. Updated web address in 5.2.
- 2-1-16:** Updated header dates for 2016 edition. Corrected names and numbers.
- 12-30-14:** Updated header dates for 2015 edition. Corrected names and numbers. Corrected ITS and TMS references, due to changes in 600 series.
- 4-30-14:** Updated header dates for 2014 edition. Corrected names and numbers.
- 2-20-13:** Updated header dates for 2013 edition. Corrected names and numbers for Specifications Office contact persons.
- 11-23-11:** Updated header dates for 2012 edition.
- 10-24-11:** Updated names and phone numbers for responsible office contact persons.
- 11-17-10:** Removed table 5.2 for District Estimates and Specifications Offices; added link to contact list on web page. Updated header dates for 2011 edition.
- 10-30-09:** Updated header dates for 2010 edition.
- 10-29-09:** Updated Pay Item ranges & contact persons.
- 10-22-09:** Updated contact information for CO and District Specs/Estimates.
- 10-22-08:** Updated contact information for District Specs/Estimates.
- 10-1-08:** Updated header dates for 2009 edition.
- 10-1-08:** Updated CO Specs contact information.
- 5-28-08:** Updated contact information for Districts 3.

Chapter 6 Pay Item Development Process

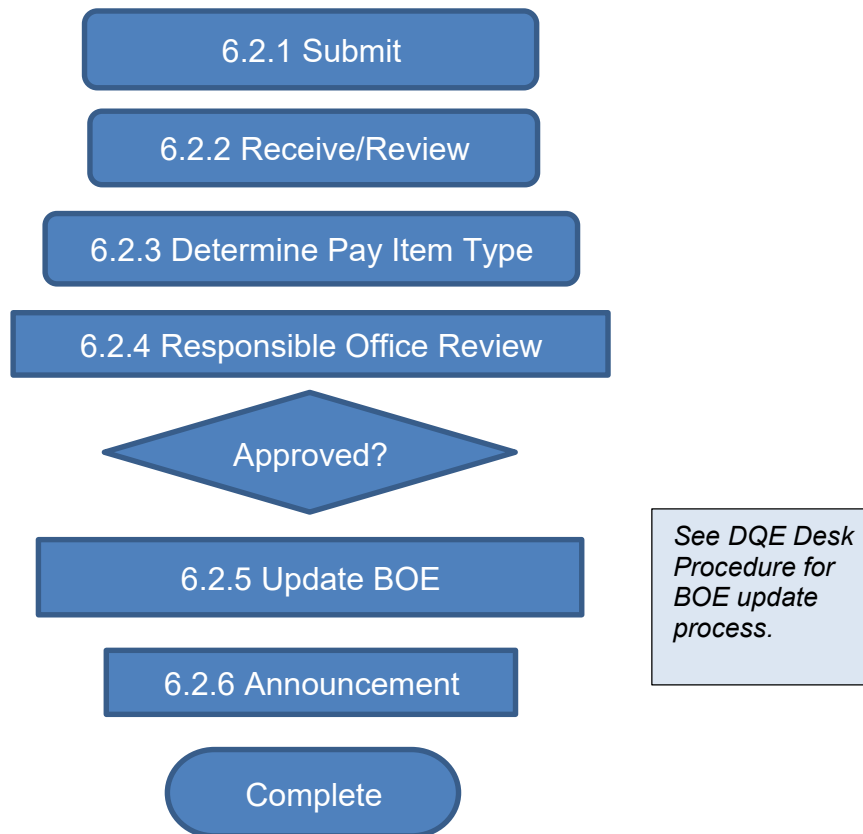
6.1 General

The pay item development process below outlines the process needed for establishing and maintaining pay items. The pay item should be coordinated with specifications and plans development. Use this guide when expanding, activating, or requesting specific types of pay items.

Pay Item Requests should be submitted at Phase 2, or as soon as the need is identified, so that the correct pay item and quantity can be loaded for Phase 3. Refer to the **Specifications Handbook** and **FDM** for further guidance.

NOTE: Central Office Estimates will make every effort to respond to a Pay Item Request within 24 hours. Pending specification concerns and/or incomplete requests may delay the review time and actions outlined below.

6.2 Pay Item Request Steps



6.2.1 Submit the Pay Item Request (Step 1- Designer)

The pay item request should be accompanied by supporting information to assist with the review of the pay item, to ensure that the Plans, Specifications and Estimates (PS&E) components are working together.

Plans: Indicate whether the standard plans, approved modification, or a project specific detail will be used. For items reviewed by the Responsible Office, words or draft plan sheets will help identify the location, conditions, and related details.

Specifications: Indicate whether the standard specifications book (ebook), Special Provisions (SP), Developmental Specifications (DevSpec), Modified Special Provisions (MSP), or Technical Special Provisions (TSP) will apply.

Estimates: Indicate whether an existing pay item structure applies, or if a new/project specific pay item is needed.

TO: FDOT-PayItems@dot.state.fl.us , District Estimates Engineer (as applicable)
COPY: FDOT Project Manager, District Specifications Engineer (as applicable)
FROM: Designer

SUBJECT: PROJECT 123456-1-52-01, Pay Item Request for Item 123-456- A

Please activate/create the following pay item(s):

123- 4- 5 Widget, per EA

Plans: Index 123-001

Specs: Section 123 or attached draft spec/modification

Additional Notes/details, attachments, as applicable

Contact:

Joe Smith, ZZZ Consulting, 1-555-555-5555

Joe.Smith@zzzConsulting.com

Hints: DO NOT copy/attach standard plans, standard specifications, or BOE text that is available online.

DO attach project specific plan sheets or draft specification, modifications, etc. to help with the review.

Approximate time to prepare email: Normally less than 5 minutes. Actual time may vary based on plans phase and details submitted.

6.2.2 Review the Pay Item Request (Step 2- Estimates)

The pay item request will be reviewed by Central Office Estimates, to determine if PS&E needs above been addressed.

Hint: See BOE for related items and/or Step 4 for information Responsible Office may need to complete review.

Approximate time: Normally less than 5 minutes to review email request

6.2.3 Determine the Pay Item Type (Step 3- Estimates)

Verify the pay item type, based on the applicable specification(s). See the Specifications Office's web page at <https://www.fdot.gov/programmanagement/specs.shtm> for a complete description.

Approximate Time: Normally less than 5 minutes. Time may vary, depending upon proposed specification type.

Standard/Special Provision: Specification is available in either the Standard Specification Book and/or workbook.

Hint: Standard pay items normally exist for standard specifications or standard plans; items for additional sizes, materials, or operations may need to be activated.

Developmental/Monitored: Specification is available, upon approval of the Monitor. Project Specific Pay items are activated following the spec approval. Details are available at:
<https://www.fdot.gov/programmanagement/OtherFDOTLinks/Developmental/Default.shtm>

Hints: Work with the District Specifications Engineer to follow the Developmental Specification Process. See FDM 115 for guidance. Proceed to Step 5 upon Developmental Spec approval.

Modified Special Provision (MSP) or Technical Special Provision (TSP): Pay item will be based on the project specific needs.

Hints: See the Specification development information at <https://www.fdot.gov/programmanagement/specs.shtm> Include the draft MSP or TSP for the responsible office's review.

Reminder: Technical Special Provisions are used when a Standard Specification or Special Provision does not exist. Changes to an existing specification should be made through a Modified Special Provision, subject to the approval of the State Specifications Engineer. Coordinate with the District Specifications Office, as needed. Responsible Office's review time may vary; see Step 4.

6.2.4 Reviews (Step 4- Responsible Office)

The Responsible Office should consider the existing specification, existing standard plans, and existing guidance, with respect to the proposed changes. Some of the questions/concerns to be addressed include:

Plan Details/Standard Plans:

Should the Standard Plans be used? Has a design variation, per the FDM, been submitted?

Are appropriate notes/details shown in the project specific plan details, without duplicating/conflicting with the specifications?

Specifications:

Should the existing Standard Specification or Special Provision be used?

Is a Developmental Specification available? Has a request been submitted?

Is a Technical Special Provision needed, due to lack of existing specification?

Should a Modified Special Provision be considered?

Does the specification use/affect the Approved Products List (APL)?

Reminder: When a specification is modified, the APL cannot be used for that specification section/item; the APL is valid only for products meeting the Standard Specification. Additional information is available at <https://www.fdot.gov/programmanagement/ProductEvaluation/Default.shtm>

Have the material requirements been addressed? Is there a Division III specification?

Are there any means/methods required? Should these be up to the contractor?

Has the AASHTO format been followed, including Description, Materials, Installation/Acceptance, Method of Measurement, and Basis of Payment?

Estimates:

Has the unit of measure, method of measurement, and basis of payment been addressed?

Are there any plan/pay item notes which duplicate, modify, or conflict with the measurement and payment?

If a pay item structure or item is needed, the Responsible Office will coordinate with Central Office Specifications and Estimates.

NOTE: Pay item descriptions are NOT changed. "Old specifications" use "Old pay item number", while "new/updated specifications" use "new pay item number". Additional details are in Chapter 10.

Criteria:

Has the FDM guidance been followed for design decisions?

Are other FDOT handbooks or manuals applicable, such as the FDOT Design Manual (FDM), Traffic Engineering Manual (TEM), Construction Project Administration Manual (CPAM)?

Are other external handbooks or test methods applicable, such as the Manual for

Uniform Traffic Control Devices (MUTCD), American Society for Testing and Materials (ASTM), or Federal Highway Administration (FHWA)?

The responsible office will work together with the above groups when a significant change is proposed, to reduce the potential “unintended consequences”. The affected offices will coordinate the implementation date, as needed.

Approximate time: Responsible Office’s review time may vary, depending upon material submitted and scope of the change. A response within two working days is normal. Full implementation may depend upon publication dates of affected standards, specifications, or other criteria.

6.2.5 Update the BOE (Step 5- Estimates)

Upon approval of the Responsible Office, the pay item structure will be created/updated. Pay Item(s) for the applicable operation, size, shape, etc. will be activated. Items will be immediately available through the Designer Interface.

CO Estimates will respond to the original email request.

Approximate time: 5 minutes to activate pay item. 5-10 minutes to update the BOE if pay item structure changes are needed.

6.2.6 Announcements (Step 6- Estimates and/or Responsible Office)

For project specific pay items or issues with no impact to others, an announcement will not delay implementation. The pay item activated in Step 5 is available immediately.

For changes affecting multiple projects, an announcement is normally provided. This may be completed through the BOE update, an internal FDOT email, Memorandum, or Bulletin, depending upon the number of projects and the effective letting date. The responsible office should work with the FDOT Coordination Team (C-Team) to discuss changes affecting multiple projects across multiple districts.

Approximate time: varies, depending upon the level of coordination completed during step 4.

Reminder: The issue is NOT COMPLETE, until the all coordination and announcements are finalized. The Responsible Office will track this step.

6.3 Pay Item Request Form Instructions

Use of the Pay Item Request Form is optional. While most requests are submitted through e-mail, a Pay item request form 600-000-02 is available through the Policy and Process Management Office’s web page at <https://fms.fdot.gov/> The form may be helpful to identify information that is needed to complete the steps of the pay item request process for new pay item structures.

To complete the form, **the Originator completes the fields marked with an asterisk (*)**. The Originator may be a Consultant Designer (for project specific needs), an FDOT Designer (for new products, processes, etc.) or any FDOT Employee (for implementing policy or procedures).

Fields without an asterisk (*), or unknown information, may be left blank. They will be completed by the BOE Coordinator and/or Responsible Office, as necessary.

Pay Item Structure (Group level for Pay Item Numbers):

*Pay item structure numbers will be assigned by the Basis of Estimates Coordinator in the Central Office. Specification Section numbers will be selected with recommendations from the State Specifications Office. See additional guidance in **Chapter 10** for Formatting Pay Items.*

Guidelines for new pay item structures 0123-456-789:

- First three digits (123) match the Specification Section. See also Developmental Pay Items for special cases.
- Digits 456-789 are right justified within the group.
- Variables ABC-DEF may be used to define operation, size, shape, color, type, etc. when needed to separate items with significantly different cost. *Variables that can be defined in the plans or specifications do not need separate pay items, if the cost is similar.* Contact the Basis of Estimates Coordinator for assistance.

When install, relocate, or other non-furnish operations are defined, the remaining variables may be blank or zero. These should be clearly indicated with the structure.

***Description:**

Describe the new pay item so that this "name" best communicates what this item is used for.

***Unit of measure:**

Identify the unit of measure. A maximum of two characters used to abbreviate the method of measure for this item. See **Chapter 2** for acceptable units.

***Requested Action:**

Check the type of action requested: New Item or Permanent Block. When this item is to be coordinated with other pay items, specifications, or standard plans, note the related item(s), i.e. Item No. ###-abc-def, or "MOT items for updated standards". An expanded pay item structure is considered a "new item".

***Structure:**

See above for Pay Item Structure guidelines.

Additional parameters which do not affect the price may be detailed in the plans; DO NOT create additional pay item structures for these parameters. Limited structures can be used to encourage price competition between products that perform similar functions and/or

provide similar end results. Use additional sheet(s) if necessary.

***Detail Information:**

Describe the item, application, recommended use, materials, etc. This information will be used to help identify the appropriate pay item, and cost estimate distribution. This information is used in the Basis of Estimates detail to assist designers in the selection and quantity calculations of an item.

Text may include "Use When..." , "Do not use when..." , "Estimate xx items per..." , and/or "Item(s)... are recommended/required when this item is used."

The pay item detail information is not a substitute for specifications. In case of doubt, always refer to the applicable specification(s) for a complete description of the work to be completed, materials, measurement, and payment.

***Method of Measurement, Precision:**

Describe the Method of Measurement in the specification. The precision is based on the unit of measure, per Chapter 2.

***Plan Quantity:**

Yes, if payment of the item is based on Plan Quantity, subject to specifications. No, if payment is based on Field Measurement.

Ensure that this selection matches compensation information in the applicable specifications.

Documentation-

***Specification- Section, Article; Tech Specs?:**

- ***For items with existing or related specifications*** (requests for items with new size, shape, or function), refer to the applicable Section number.
- ***For project specific items*** without existing specifications (requests for items with limited use or project specific conditions), contact the District Specifications Office; a copy of the Technical Special Provision will be required with the pay item request form.
- ***For new, general use items*** without existing specifications (requests for items based on changes to standards, specifications, and or policy), contact the State Specifications Office. The implementation of these items will be coordinated with all affected offices.

Specifications Submitted, Date:

List the name of the person originating the specification, and the date it was sent to the Specifications Office.

***FDOT Design Manual:**

Refer to Chapter for applicable information. If a revision is necessary, contact the State Roadway Design Office to propose revision(s).

***Standard Plans, Index No(s):**

Applicable *Standard Plans*, with index number(s). If a revision is necessary, contact the applicable office.

***Summary Box or Tabulation Sheet:**

Applicable Summary Box or Tabulation Sheet for documentation of quantities. Refer to Chapter 8. Changes to the summary box(es) or tabulation sheet(s) must be coordinated with CADD Support and Estimates.

***Shop Drawings:**

If shop drawings will be required, circle yes, otherwise circle no.

***Plan Notes:**

If plan notes will be required, provide sample text of note. (Plan notes should not replace or duplicate specification text.) All plan notes should be coordinated with the FDM text.

Other:

If use of this item is included in other documentation (Drainage, Pavement Design, Traffic Signals, or other Manual/Handbook), note applicable volume, chapter, or edition. If revisions are necessary, coordinate changes with applicable office.

Responsible Office Approval, Date:

The Responsible Office will depend upon the applicable specification section(s).

Cost Data-

Related Pay Item(s), Unit Price, Additional Cost, Manufacturer/Supplier(s):

For items similar in cost, provide related item numbers. If no similar items exist, provide price and availability information. Unit price, per the specification, normally includes cost of material installation, delivery, incidental materials, etc.

Estimator's Approval, Date:

Estimates review of the proposed price and/or related items.

***Originator-**

Name, Date, Office, Phone, District:

The originator may be a Consultant or FDOT employee, currently working on the project for which the item is requested. This person should be able to answer any additional questions regarding the use/application of this item. Complete information as requested.

District Estimates Office Approval:

For Items originating in the districts, the District Estimates Engineer should sign, indicating that the form contents have been completed and reviewed.

Central Office Approvals-

Design Coordinator, Specifications Coordinator, BOE Coordinator:

Each person responsible for approval should verify that requested action is necessary,

meets existing/proposed standards, guidelines, handbooks, etc, and is not in conflict with existing item(s).

**Implementation Notes and Effective/Obsolete Dates-
Effective Letting Date, C-Team Issue #, Summary Details:**

The implementation information will be completed in the Central Office, following all approvals. Actions which require coordination between offices will be addressed by the Coordination Team, with approved implementation plans detailed in the Basis of Estimates Summary of Changes. Minor actions, not requiring an implementation plan, will be implemented immediately.

Effective and Obsolete dates will be coordinated with the effective/obsolete dates of the applicable specifications or standard plans. See Step 6 above for announcements that may be needed.

Project Specific pay items will be valid for the 6 month period (January-June or July-December) in which the project's letting date occurs. If the project's letting date changes, valid dates for Project Specific pay items will be updated upon request, unless a specification or standard plans change conflicts with the pay item.

Master File- Item Number, Financial Project Number, and Project Letting Date:
Project specific pay items will be activated upon approval and implementation.

For new or replacement pay item groups, the commonly used sizes, shapes or other pay item combinations may be activated upon approval of the specification/standard plans, without waiting for specific projects to request the items.

6.4 Generic Pay Items for Utility Work

6.4.1 Description

At this time, generic pay items are only available for utility work. Generic pay items are general-use pay items available for Utility Work that are defined by a pay item supplemental description on a project by project basis. They are intended to support one-time usage pay items or specialty situations where a standard pay item is not available, and for which it is not practical to create a new pay item. A single generic pay item number can be used many times, but only once per project/proposal; each time it is used the appropriate descriptive information must be included. ***Since these items are for unique situations, tracking of cost history for future estimation purposes is not necessary. If cost history might be helpful, consider requesting a new pay item.***

Coordinate with the District Estimates Engineer, as needed, to address contract issues when generic items are used on multiple projects or similar items within a contract.

6.4.2 Rules

The following rules apply in the usage of all **generic pay items, including duplicate Lump sum projects**:

- Must not be used if there is an existing pay item.
- Must not be used to violate or circumvent standard pay items. Must not be used to circumvent the approval process (for specification usage) on developmental items.
- Must not be used as a standard means to work-around a pay item that has been rejected for statewide usage by Central Office.
- Must not be used for sole-sourcing of materials/methods for items of work.
- Must not be used to circumvent the pay item request process if the pay item should be activated for statewide usage.
- Must be supported by a technical special provision and/or plan details; refer to 7.3 of the Basis of Estimates.
- Must be loaded under the appropriate project category (Utilities=700).

6.4.3 Roles

It is important that everyone involved in the pre-letting and post-letting processes understands and fulfills their respective responsibilities regarding generic pay items:

Designer – Designers are responsible for determining if a generic pay item is needed, developing the technical special provision (or ensuring it has been developed), and ensuring that all necessary details are included in the contract documents.

District Estimates Staff –The District Estimates Staff is responsible for updating the pay item’s description and unit of measure.

Central Office Project Review Team – The CO Project Review staff will perform a quarterly Quality Assurance review of generic pay items after the letting. They will not perform a Quality Control review of generic pay items prior to the letting.

The quarterly review will be completed as follows:

- Run the Pay Item Future Search report to determine if any generic pay items were used during the previous quarter;
- Check for proper details and plan notes in the contract documents;
- Check for correct information in Trns•port;
- Verify that the description of the generic pay item has a Supplemental Proposal Description, with unit of measure;
- Verify that generic items have been loaded in the correct category;
- Coordinate with the responsible design office if usage of generic pay item is questionable (usage does not appear to abide by the usage “Rules” as described in this document).

6.4.4 Process

The process that is to be followed when generic pay items are used is as follows:

1. District identifies work that is appropriate for a generic pay item, but must not violate the rules;
2. Designer includes all supporting details for the generic pay item in the contract documents;
3. Designer loads generic pay item via the Designer Interface, and supplies the District Estimates staff with the pay item supplemental description.
4. District Estimates staff loads supplemental description and units for generic pay item.

6.4.5 Quality Control & Quality Assurance

Quality Control: Districts assume all responsibility for proper usage of generic pay items. No approvals from Central Office will be required; no Quality Control reviews will be performed by Central Office.

Quality Assurance: Quarterly post-letting reviews of generic pay items will be performed by the Central Office Project Review team. The team will check for:

- Supplemental Proposal Description (clearly representing the item of work), with unit of measure, has been loaded; and
- Complete documentation (drawings and/or specifications) is included in the contract package.

The responsible Central Office Design personnel may be consulted to verify appropriate usage.

6.4.6 Pay Item Structure & Description

Generic pay items are structured as:

0000-AAA-BBB

AAA = Design Group/ Category (700 for Utilities)

BBB= Sequential Number that can be re-used

Note: Zeros are hard-coded; they are NOT blanks.

The default unit of measure for all generic pay items is ZZ. The actual unit of measure must be entered with the project-specific description being added at the end of the Supplemental Proposal (Pay Item) Description.

Example:

```
0000-700- 1  UTILITY DESIGN GROUP - GENERIC PAY ITEM 1 (UTILITY PIPE, F&I, DI/CI,  
            WATER/SEWER, 10" - LF)                ZZ
```

Description: The Supplemental Proposal (Pay Item) Description and unit of measure are

entered as follows:

By default, the Description field will be filled with the generic description that is associated with the pay item number in the master pay item list; the default unit of measure will be ZZ. While the designer may enter the pay item number and quantity, it is the District Estimates Office's responsibility to enter the Supplemental Proposal Description and actual unit of measure, as shown in parentheses in the example above.

Utility Pay Items: Generic pay items can provide greater flexibility for Utilities projects. They can be used to:

- Specify a pipe size when the standard pay item is for a size range:
- Break out fittings on items that normally have fittings included as an incidental cost of the pipe (pipe size less than 8”):
- Combine fittings into one pay item when the standard pay item does not include the fittings (pipe size greater than or equal to 8”).
- Separate payment for unique utility work or materials

6.5 Inactive Items

In an effort to remove unused pay items, those items not used within a 2 year period will be labeled as “inactive” and considered for temporary and/or permanent blocking.

Restoring inactive items will require that the Designer follow the instructions for requesting a new item, as standards or specifications may have changed.

If an inactive item remains unused for 3 years, the Estimates Office will recommend to the responsible office that the pay item structure be blocked. Once blocked, a pay item request must be submitted in accordance with 6.2, before it will be reactivated.

6.6 Pay Item Reviews

When a major specification or standards change is made, the responsible office is requested to review the pay item structure to ensure that the affected items meet the needs of Design, Construction, Maintenance, and other industries. Historical use and item averages are available, but should not be the only consideration.

As recommended with new items, the pay item structure ###-abc-def, should be used to define parameters as needed. Some factors to consider when reviewing the pay item structure:

a. What factors are most important to the Designer, Estimator, Supplier, Manufacturer, and/or Contractor? Can they be detailed in the plans? Are they included in the specification? Does it affect the price?

Note: Not all factors should be weighted equally. Sometimes the installation (labor) is more significant than the materials.

b. Are there standards/specifications for the item?

There may be 2 standard products and 8 “special” items. If the 2 standard items account for a significant percentage of applications, could the “special” items be combined under one “special” item?

Additional parameters which do not affect the price may be detailed in the plans; DO NOT create additional pay item structures for these parameters. Limited structures can be used to encourage price competition between products that perform similar functions and/or provide similar end results

6.7 Coordination Team (C-Team)

A team representing many Design & Construction Offices has been established to coordinate the review and implementation of various issues. By working together, the team is able to ensure that pay items, specifications, and standards, as well as supporting handbooks and manuals, are available in a timely manner- with a coordinated implementation plan. Design Representatives include the persons from Roadway, Structures, Specifications, Standards, and Estimates. Construction and Maintenance are also represented. When necessary, representatives from other affected offices are requested to attend.

Issues may be submitted by any office or representative, but are normally the result of changes to pay items, specifications, and/or standards. Each office’s representative is encouraged to keep the team informed of issues that may impact others. When proposing major changes to the pay item structure, specifications or standards, please coordinate with each office to determine/verify known or unintended impacts.

Issues brought to the attention of the C-Team will be evaluated and processed on a “case-by case” basis. Issues with minimal impact on others are noted, with little or no further C-Team activity. Issues with extensive impact may be assigned to a committee for further investigation. The result of C-Team activity should be a recommended implementation plan, complete with a brief history and resulting changes. Implementation will be scheduled to coincide with Specification, BOE, Standard, and Manual updates, when possible.

The State Estimates Office compiles information resulting from C-Team recommendations for the Summary of Major Changes included with each edition/update to the Basis of Estimates. Managers of the affected offices approve issues included in the summary. Overall approvals, from the Directors of the Office of Design and Highway Operations, are also included.

6.8 Developmental Pay Items, Project Specific Items, and Special Use Items

6.8.1 Developmental Pay Items

Developmental Pay Items are used with Developmental Specifications. See the ***Specifications Handbook*** for additional information.

When an item is recommended for implementation while details are under review (specifications, standards, policy, etc.) a developmental pay item may be assigned. Developmental items are intended for limited use, for a limited period of time, while the item is under review. A monitor is assigned for each Developmental Specification. Any problems or concerns with the Developmental Specification, from either Design or Construction, should be directed to the monitor.

Developmental pay item numbers are assigned upon project specific approval of the Developmental Specification. Requests, per the Specifications Handbook, must be through the District Estimates Office.

Upon completion of the review period for the specification, standard, and/or policy change(s), the monitor may recommend that a specification and pay item be activated for statewide implementation.

6.8.2 Project Specific Pay Items

Project Specific Pay Items are similar to Developmental Pay items; they are also monitored by the responsible Design or Construction Office. These items may be requested when an infrequently used item has a need for tracking, and specifications are project specific. Specifications for these pay items must be coordinated with the monitor. Examples of Project Specific Pay Items include research of geotechnical materials, asphalt surfaces, or new technology. Some of these items may become developmental items, as the research, monitoring needs, or number of projects continues to expand. Coordinate requesting use of these pay items with the District Estimates Office.

6.8.3 Special Use Pay Items

Special Use pay items are generally used to encumber funds. They are numbered as described in 6.8.1. Details for most of these pay items are found in the ***Construction Project Administration Manual (CPAM)***. Examples of special Use pay items include Lump Sum Contract, Partnering, Disputes Review Board, Speed and Law Enforcement, and Initial Contingency Amount. Note that some of the special use pay items are marked “do not bid” and/or contain pre-set prices.

Chapter 6 Revision History

11-1-20: Updated header dates for 2021 edition. Editorial changes to 6.8, to be consistent Specifications Handbook.

- 11-1-19:** Updated header dates. Updated the pay item process and graphic. Renumbered section, as needed. Updated Generic Items, to limit applications to only Utility category work.
- 12-1-18:** Updated header dates for 2019 edition.
- 10-30-17:** Updated header dates for 2018 edition. Changed “Trial Pay Items” to “Project Specific”. Removed 6.10- Related Documents.
- 10-1-16:** Updated header dates for 2017 edition.
- 2-1-16:** Updated header dates for 2016 edition. Clarified difference between open/activating and new pay items in 6.2.
- 12-30-14:** Updated header dates for 2015 edition. Corrected minor spelling and punctuation errors.
- 4-30-14:** Updated header dates for 2014 edition. Added notes for Comp Books/Summary Boxes in 6.10. Updated hyperlinks.
- 2-20-13:** Updated header dates for 2013 edition.
- 11-23-11:** Updated header dates for 2012 edition.
- 10-17-11:** Added Pay Item Process flowchart, with details about color paths. Updated 6.2 through 6.7 to refer to the flowchart processes.
- 4-21-11:** Updated header date. Revised 6.5.2 regarding Technical Special Provisions and/or plan details to refer to 7.3 of the BOE. Revised 6.9 to detail differences between Developmental, Trial, and Special Use pay items.
- 11-22-10:** Updated header dates for 2011 edition. Expanded 6.2 and 6.3 for e-mail requests.
- 3-10-2010:** Updated 6.5.2 to expand generic pay item rules to duplicate LS projects.
- 12-9-2009:** Inserted section 6.5 Generic Pay Items. Text is based on Estimates Bulletin 09-06, and the accompanying Guidelines for Usage of Generic Pay Items.
- 10-30-2009:** Updated header dates for 2010 edition.
- 10-1-2008:** Updated header dates for 2009 edition.
- 10-1-2008:** Updated text to make the pay item request form optional. Complete information may be submitted by e-mail.

Chapter 7

Design Tools

7.1 General Information

Detailed **plan notes, modified special provisions, and/or technical special provisions** must be provided by the designer for all items **not covered by existing specifications**. *Plan notes are not acceptable as a substitute for specifications*. Plan notes are intended to work *with* the specifications, and are not intended to supersede the specifications. Plan notes must not:

- Change the specifications
- Conflict with the specifications
- Duplicate the specifications
- Change the pay item description

When existing specifications are not applicable, coordinate specification revisions with the District Specifications Office. Every effort should be made to avoid conflicts, as plan notes are overridden by some specifications and take precedence over others. In either case, plan notes must *never* conflict with specifications. Details necessary for complete information include:

- Description of item
- Materials
- Construction and installation
- Method of measurement
- Basis of payment

Modified Special Provisions are also known as “MSPs”. Technical Special Provisions are also known as “Tech Specs” or “TSPs”. In general, the difference is:

- MSPs: used to modify existing specification sections
- TSPs: used when no specification section exists

For additional information on various types of specifications, refer to the **Specifications Handbook** at <http://www.fdot.gov/programmanagement/specs.shtm>. Contact the District Specifications Office with any project related specifications concerns.

NOTE: Refer to the FDOT Design Manual (FDM), Topic 625-000-002, for additional guidelines on using plan notes. It is located online at <http://www.fdot.gov/roadway/FDM> Contact the Roadway Design Office with any questions, comments, or corrections regarding these notes. Similar guidance is in the Structures Detailing Manual, 5.1, F.

Pay item descriptions must remain as shown in the BOE and provided from the various system reports. This is the description used for the contract bid documents through final payment. See Chapter 6 for requesting pay items when project specific needs require other descriptions.

7.2 Specification Flags

Several letters or “flags” are used on the Master Pay Item list and Summary of Pay Items to indicate when a non-standard specification and/or Plan detail is **likely needed**. Flags are listed, with further guidance below:

- A= Approvals needed
- B= BOE guidance
- D= Developmental Spec
- E= Estimates Use Only
- G= Generic Item
- T= Technical Special Provision
- M= Maintenance use only
- P= Plan Details
- R= Permit
- S= Modified Special Provision

Approvals: Contact the monitor for approval on each project. Additional information is provided in the BOE details for the pay item.

BOE Guidance: Specification flag(s) may depend on multiple factors, as described in the BOE details for the pay item group.

Developmental Specification: Developmental Specifications must be requested from the District Specifications Office, for approval by the CO Specifications Office, on a project by project basis. Follow the instructions on the Specifications Office’s developmental specifications page at

<https://www.fdot.gov/programmanagement/OtherFDOTLinks/Developmental/Default.shtm>

Estimates Use Only: These items are intended for estimating/accounting use. For additional information, see BOE guidance for the pay item number.

Generic Item: See Chapter 6 for details

Technical Special Provision (TSP): Specification preparation assistance is available at <https://www.fdot.gov/programmanagement/PackagePreparation/Default.shtm> While TSPs are project specific, coordinate with the District Specifications Office, as past specifications may be available.

Maintenance Use Only: Selected pay items are available for use on Maintenance Contracts only, due to maintenance specification changes that provide for separate payment and/or method of measurement.

Plan Details: While all pay items have selected plan details showing the quantities, locations, and/or dimensions, this flag is used to identify pay items with additional information required, per the specification.

Permit: Pay item is used for work required by a permit, normally issued by an environmental or water management agency. These pay items should NOT be used unless addressed in the permit.

Modified Special Provision: Modified specifications must be coordinated with the District Specifications Office. Additional guidance is available at <https://www.fdot.gov/programmanagement/PackagePreparation/Default.shtm>

Refer to the details for the specific pay item group in the Basis of Estimates for additional information.

7.3 Choosing between Specifications and Plan Details

When trying to decide between Specifications and Plan Details, there are several quick questions to consider:

1. What is the **work to be completed**?
2. What are the **material requirements**? What are the testing criteria?
3. How is this to be **installed**? What are the performance requirements?
4. Will the item be **measured** in the field, or paid by plan quantity?
5. What work/materials are included with, or excluded from, this **payment**?

When is a Plan Note sufficient? When the quick questions above are answered by the specifications, a plan note is sufficient. This frequently occurs when the specification indicates “use xxx, unless otherwise shown in the plans.” Remember, plan details/drawings show dimensions and location; they alone are not a substitute for complete specifications.

When is a Specification Required? If the above quick questions are not answered by the existing specifications, a non-standard specification is required. The Designer is responsible for ensuring that all pay items are completely covered within the contract documents (specs, standards, and/or plans).

A complete specification includes:

Description: A Description of the work to be completed may be in the form of a drawing/plan detail, words in a specification, or both.

Material requirements: Materials may be identified in the specifications, design standards, by reference to ASTM or other testing criteria, or by notes in the plans. Consider long-term material requirements, such as UV protection or other coatings.

Construction: Either installation methods or performance requirements may be given. Some products may be installed “in accordance with manufacturer’s instructions.”

Method of Measurement: Describe HOW the item will be measured, as well as whether it will be paid by plan quantity or field measured. The standard text normally includes the “furnish and install” operation. When working with “install only” items, ensure that the pick-up/delivery instructions are included. For “relocate” items, clearly identify original and final location, as well as clean-up work at the original location and incidental items needed at the final location. “Remove” items should clearly identify whether contractor takes ownership (dispose) or the Department retains ownership (stockpile- within right of way, or delivered to maintenance yard). Additional operations are explained in the **BOE, Chapter 10**.

Special/Custom items should only be used when there is a significant deviation from the standard item of work; existing specs and/or standards do not apply. Complete specifications are needed. Note: Minor changes may be noted in the plans, using standard pay items, as long as conflicts are not created within the contract documents. Coordinate proposed specification changes with the District Specifications Office.

Basis of Payment: Payment is often “full compensation for all work specified” for a complete and accepted installation.

7.4 Plan Details and Pay Item Notes

FDM 2020 edition: FDM Chapters 304 and 307 address the Summary of Quantities sheets in the plans, along with standard pay item notes. When a plan note is necessary, locate it where it is most relevant. For roadway items, this would be on the roadway summary of quantities, along with standard pay item notes. For other component plans, this would be on the summary of quantities sheet(s), or near the item detail/drawing.

From the **FDM 311.1 General Notes:**

General notes provide information and direction to the contractor by clarifying design details or construction practices. General notes are project-specific and must not restate, broaden or curtail requirements in the Standard Specifications or Standard Plans.

FDM 2021 edition: Ensure that notes do not duplicate or conflict with specifications.

7.4.1 Choosing between Plan Details, Pay Item Notes, and Summary Box Design Notes Column

The Design Notes column of the summary box is used to show information that is location and/or payment specific. Do not use the design notes column for specification details, such as material requirements. Refer to Chapter 8 for additional guidance.

Plan or Pay Item notes should be coordinated with the District Specifications and Estimates Offices. They should not be used in conflict with specification text for Measurement and Payment. Refer to the ***FDOT Design Manual (FDM)*** for additional guidance.

7.4.2 Pay Item Notes

Pay item notes that begin “Payment includes...” should be moved to the appropriate specification’s Basis of Payment. Do not use a pay item note to change or duplicate the specification, without approval of the District Specifications Engineer.

7.5 Plan Quantity Concept

Plan Quantity Measurement is defined in 9-1.3 of the specifications. Estimated quantities must be calculated and documented as accurately as possible. Plan Quantity pay items shall not include contingencies in the quantity calculation.

7.6 Federal Funding

7.6.1 Projects with Federal Funds

When any project with federal funds is let together with a state funded project, also known as “strung projects”, all projects within the contract become “federalized”, i.e. they must comply with all applicable federal laws, rules, and regulations related to the federalized contract. In addition, the Federal-aid project may become the lead project.

Details are available in the *FDOT Design Manual (FDM)*. Contact the District Estimates Engineer for additional guidance.

7.6.1 Federal Participation at the Pay Item Level

On a project with federal funds, all items will “participate” in the funding, unless specifically noted otherwise. Summarized from FHWA, all items of work, including preventative maintenance, which are intended to extend the useful life of the highway will be eligible for participation in federal funds.

Items of “routine maintenance” are not eligible for participation in federal funds. Examples of “routine maintenance” include litter removal and mowing.

For construction contracts, most items will be loaded as participating. Pay Items specifically noted in the *Basis of Estimates (BOE)* as “non-participating” will default to “non-participating”. Do not change the participating/non-participating field, unless specifically instructed by the District Estimates Office.

7.7 Proprietary Products

7.7.1 Procedure

Proprietary products, identifying a specific brand, product, and/or model, must follow the Proprietary Product Procedure No 630-020-005. Details are available from Product Evaluation at <http://www.fdot.gov/programmanagement/ProductEvaluation/Default.shtm>

7.7.2 Specifications

Specifications associated with Proprietary Products must follow current specification instructions, available at <http://www.fdot.gov/programmanagement/specs.shtm> Ensure that Method of Measurement and Basis of Payment are addressed in the contract documents.

7.7.3 Pay Items

Pay items for proprietary products will normally follow existing pay item guidance for the applicable item(s).

- if the item is currently covered by an existing pay item, the proprietary product will continue to use the existing item
- If the item is covered by a project specific or developmental pay item, the proprietary product will use the applicable pay item

As with all pay items, if the proprietary product is expected to have significantly higher or lower cost, a project specific pay item may be requested.

Chapter 7 Revision History

11-1-20: Updated header dates for 2021 edition. Formatted text in 7.2. Added 2021 FDM guidance to 7.4.

4-17-20: Added “S” code for specification type. Expanded guidance in 7.2.

11-1-19: Updated header dates for 2020 edition. Added 7.4.2 for pay item notes.

12-1-18: Updated header dates for 2019 edition. Added text for pay item descriptions. Added 7.7 for Proprietary Products.

8-8-18: Updated 7.1 and 7.4 references from PPM to FDM chapters.

10-23-17: Updated header dates for 2018 edition. Updated PPM reference and web page to FDM. Updated General Notes quote from 2018 FDM.

8-12-16: Added PPM reference to 7.4 for active voice wording. Updated web links to fdot.gov.

5-9-16: Updated 7.2 to include B value.

2-1-16: Updated header dates for 2016 edition. Updated PPM reference in 7.4.

12-30-14: Updated header dates for 2015 edition. Added third paragraph to 7.1 to define Tech Specs and refer to specs web page. Corrected missing text from last sentence of 7.6.1.

5-14-14: Updated 7.2 to include developmental specs.

1-14-14: Updated header dates for 2014 edition. Updated “Spec Type” flag list. Included Quick Reference information into section 7.3. Updated hyperlink.

2-20-13: Updated header dates for 2013 edition.

12-30-11: Added 7.5 to include Plan Quantity information, per Estimates Bulletin 11-06.

11-23-11: Updated header dates for 2012 edition.

10-17-11: Added 7.4 to detail pay item notes, along with PPM guidance.

4-21-11: Updated header date. Moved text from “Quick Reference” to new section 7.3. The “Quick Reference” content will also be available as a separate file online.

11-23-10: Updated header dates for 2011 edition. Added color to “Quick Reference” page.

5-14-10: Updated “Quick Reference” page.

10-30-09: Updated header dates for 2010 edition.

9-16-09: Changed chapter title from Plan Notes to Design Tools. Added section for Tech Spec and other flags. Added “Quick Reference” page.

10-1-08: Updated header dates for 2009 edition.

5-28-08: Deleted notes; refer to PPM for current information for: Key Sheet Notes, Typical Section Notes, Summary of Quantities Sheet Notes, Plan and Profile Sheet Notes, Pay Item Footnotes, Drainage Map Notes, and Utility Adjustment Sheet Notes.

Chapter 8 SUMMARY BOXES

CADD tools are maintained by the State Engineering CADD Office. Additional guidance is available at <http://www.fdot.gov/cadd/default.shtm>. Updates are posted through maintenance releases and the FDOT CADD Support community website.

NOTICE: The CADD Office will be transitioning to NexGen plans, with new Summary Tables for the new Estimated Quantities Report. When a project is identified to use the new report format, the entire project must use the one report format. A “mixture” of new format and Plan Summary Boxes will not be accepted. See **BOE Chapter 8- Summary Tables**.

Errors, Comments, or Questions:

- Contact CADD.Support@dot.state.fl.us for Summary Box Calculation, Automation, or CADD Support.
- Contact FDOT-PayItems@dot.state.fl.us for Box selection, Pay items, formatting, or BOE Support.

Training will be available through both the CADD Office and Estimates Office, to address the needs of designers, cadd users, reviewers, and estimators.

8.1 Introduction

8.1.1 History

For many years, Computation Books were used to document planned and final quantities, by location, for each pay item on a project. These books were used by construction inspectors to document quantity changes and related notes as a project progressed. Alternatively, some pay items were documented within the plans on summary tables. The summary table information varied; only selected tables detailed the quantities by location. While both methods contained similar information, computation books were not a part of the contract bid documents.

Due to requests from our bidding contractors, the State Construction Office began an effort to streamline the final estimates process. Effective January 2014, projects starting the quantity calculation process no longer created computation books.

Summary Boxes were established to provide quantity information BY LOCATION, in a consistent format for ALL pay items. Beginning with lettings in November 2013, projects transitioned to the new summary boxes. All projects were required to use the summary boxes by July 2014.

Summary boxes were originally located behind the typical sections. In 2019, the location was moved to the end of the Roadway Plans. Projects beginning design in 2021 will utilize

Summary Tables and a new report titled “Estimated Quantities Report” (EQ Report), as detailed below, separate from the plans file(s). See the **2021 FDM** for additional information. The Summary Tables within the EQ Report continue to be an integral part of the Plans, Specifications, and Estimates Contract Package.

8.1.2 Current Documentation

Pay item Quantities will be documented in the contract documents using summary boxes and/or tabulation of quantities sheets. These summary boxes inform the construction contractor the pay item number, location description, location (station to station), unit of measure and designer notes to the contractor.

8-1.3 General Requirements:

All pay items must be documented on a plan summary box or tabulation sheet. In general, Roadway and Structures items are included on plan summary boxes. Signing and Pavement Marking, Lighting, Signalization, Landscaping, and Utility component plans will use tabulation sheets. Whether plan summary boxes or tabulation sheets are used, the quantity of each item, by location is required. Each quantity must be calculated with one additional significant decimal place, totaled, and then rounded to the defined precision for each pay item, per Chapter 2. If station equations exist in the alignment, the region numbers are required for the station locations.

Do not include contingency quantities. Due to state and federal regulations, bid quantities must reflect actual work to be completed. Unforeseen work will be addressed in accordance with the Specifications. Quantity overruns, Measurement and Payment are addressed in Section 9 of the Standard Specifications. Construction/Final Estimates will adjust **Final** quantities and/or prices, as applicable, per the specifications.

Designers must retain back-up. If a question arises involving quantities, Construction will request in writing, that the designer provide detailed documentation or verify the concern of the pay item(s) in question. The designer shall produce the back-up documentation within five working days of the request from construction.

DO NOT create project specific Summary Boxes. See below for acceptable modifications to existing Summary Boxes. NOTE: Data tables are not intended for location, quantity, or pay item information; they may be used, as called for in the FDOT Design Manual (FDM) or Standard Plans. These are used to supplement data calculations or item specific details. DO NOT use data tables to duplicate or relocate information from a Summary Box or Tabulation Sheet.

8.2 Summary Box Format

8.2.1 Adding and Deleting Columns or Rows

The summary boxes are formatted with pay items and quantities listed in columns or rows. Customize the summary boxes for the specific work to be quantified/documented. Do not

add columns or rows for pay items not associated with that summary box. Do not add columns or rows for sheet numbers or other non-standard information. Update pay item (A) and size (XX) on column heading. Specific modifications to summary boxes that are prohibited are identified with each summary box below. Unused columns or rows may be hidden or deleted; this is not required. However, DO NOT hide or delete the columns or rows intended for Construction Remarks or Final (F) quantities. **When noting plans revisions, DO NOT use the areas reserved for construction's use, including the Construction Remarks column.** Additional guidance is provided with each summary box below.

When adding columns or rows to a summary box, consider the size of the plan sheet(s). Refer to CADD instructions for boxes that extend beyond one page, so that quantities continue to automatically total across continued boxes.

For summary boxes that show each pay item in a separate column and total at the bottom, the Plan Total should be shown on the first summary box with any subsequent summary boxes showing only the Sub-Totals. This format has already been set up in the templates provided by the CADD office.

For pay items with multiple rows, due to area/locations or other details, DO NOT REPEAT the pay item number and description multiple times. Only enter the pay item, description, unit of measure, and total on the first line. Use as many additional rows, as needed, for each location. DO NOT add subtotals to any sheet.

For Summary Boxes designed to include multiple pay items, show all locations/quantities of the first pay item, followed by locations/quantities of the next pay item. DO NOT use a separate box for each pay item.

8.2.2 Design Notes Column

When location specific notes are needed to clarify details or quantities, the design notes column may be used. Refer to **BOE** Chapter 7 for additional information on plan/project notes.

8.3 Order and Placement within Plans

8.3.1 Plan Sets with Roadway Plans, with or without additional components:

Summary boxes for the Roadway component items are placed on Summary of Quantities sheets, and numbered SQ-1, SQ-2, etc. Do not use other alpha characters for sheet suffixes. These sheets will be located after the numbered plan sheet(s). Refer to the [FDM 307](#) for additional details. Do not add non-standard summary tables, tabulation sheets, or other data tables to the Summary of Quantities sheets.

Within the SQ sheets, place the summary boxes in the following order, when possible. While allowances may be made to fit multiple summary boxes on a single sheet, the pay

item order shown below will allow items to be easily located. Do not number the summary boxes in the plans.

#	Summary Box Title <i>(select title to go to Instructions)</i>	Examples ¹
1	Summary of Lump Sum Items	Examples
2	Summary of General Items	Examples
3	Summary of Temporary Traffic Control Plan Items	Examples
4	Summary of Special Detours	Examples
5	Summary of Temporary Highway Lighting	Examples
6	Summary of Pedestrian Longitudinal Channelizing Devices	Examples
7	Summary of Temporary Signalization & Detection	Examples
8	Summary of Temporary Driveways	Examples
9	Summary of Temporary Crash Cushions	Examples
10	Summary of Erosion and Sediment Control Devices	Examples
11	Summary of Litter Removal and Mowing	Examples
12	Summary of Monitor Existing Structures	Examples
13	Summary of Clearing and Grubbing & Removal Items	Examples
14	Summary of Mailboxes	Examples
15	Summary of Earthwork	Examples
16	Summary of Geotechnical Items	Examples
17	Summary of Turnouts, valid through 12/2019 lettings Summary of Driveway Base, New title effective 1/2020 lettings	Examples
18	Summary of Pavement	Examples
19	Summary of Miscellaneous Asphalt Pavement	Examples
20	Summary of Structure Quantities, Bridge XXXXXX*	Examples
21	Summary of Box Culverts²	Examples
22	Summary of Walls	Examples
23	Summary of Utility Adjustments	Examples
24	Summary of Side Drain & Mitered End Sections/ Summary of Drainage	Examples
25	Summary of Miscellaneous Drainage Items/ Summary of Drainage	Examples
26	Summary of Trench Drain	Examples
27	Summary of Underdrain	Examples
28	Summary of French Drain	Examples
29	Summary of Edgedrain	Examples
30	Summary of Railing	Examples
31	Summary of Permanent Concrete Barrier (formerly Barrier Wall)	Examples
32	Summary of Curb & Gutter and/or Traffic Separators	Examples
33	Summary of Sidewalk & Detectable Warnings	Examples
34	Summary of Permanent Driveways	Examples

35	Summary of Ditch Pavement	Examples
36	Summary of Guardrail	Examples
37	Summary of Cable Barrier (Pending)	Examples
38	Summary of Permanent Crash Cushions	Examples
39	Summary of Fencing	Examples
40	Summary of Performance Turf	Examples
41	Summary of Traffic Monitoring Site Items	Examples

¹Examples with new summary tables are not included in this Chapter. See Example pages for additional information.

²Structures summaries, only when no separate component plans exist

In the Structures component plans, the applicable structures or box culvert summary boxes will be placed on Summary of Structures Quantity sheets and be numbered BQ#-1, BQ#-2, etc. These sheets will be located after the key sheet/index sheet. NOTE: Effective with July 2018 lettings, refer to the 2018 FDM for placement of all box culvert plan sheets within the structures component plans. However, when loading pay items and quantities in the Designer Interface, non-bridge structures (box culverts less than 20' and retaining walls) will continue to be loaded in the ROADWAY CATEGORY, per [BOE Chapter 9](#).

For Roadway projects without a Lighting, Signing, or similar components, summarize the quantities for incidental component work on either the appropriate summary box (Summary of Clearing and Grubbing & Removal Items, Summary of Utility Adjustments), on the Summary of General Items or on the appropriate Tabulation of Quantities Sheet. If the Tabulation of Quantities sheet is used, it should be placed behind the Summary of Quantities sheets and number with the rest of the Roadway component sheets. Revision for projects let after July 2018: If the Tabulation of Quantities sheet is used for the lighting, signing, or other component items, it should be placed behind the Summary of Quantities sheets and numbered with the SQ sheets.

8.3.2 Plans without Roadway Component Plans

For structures projects without a Roadway component, the Summary of Structures Quantity sheets for all structures will be located after the Summary of Pay Items sheet (Transport report).

For Signing, Lighting, and similar projects without a Roadway component, the non-roadway pay items will be shown on the applicable tabulation sheet. For the Roadway pay items on these projects, include the appropriate summary boxes following the tabulation sheet(s). Continue to number the component sheets without the SQ numbering (i.e. S1, S2, S2, or L1, L2, L3). All of these sheets (tabulation sheets and summary of quantity sheets) should be placed in the TABQXX design files.

8.3.3 Plans with Multiple Projects

For multiple projects let under one contract, Summary Boxes or Tabulation Sheets are completed separately for each project; locate the summary boxes for each project with their respective project and component plans.

For multiple project FPID numbers with one set of plans (incidental work for secondary project shown in primary project’s plans): When incidental work (project B without separate plans) is added to a larger project (project A with plans), the summary boxes for the incidental work are shown following the summary boxes for the larger project, with the project number located in the upper right corner of the summary box. For example:

- Summary of Lump Sum Items (Project A in upper right corner)
 - Summary of Lump Sum Items (Project B, in upper right corner)
 - Summary of General Items (Project A in upper right corner)
 - Summary of General Items (Project B, in upper right corner)
 - Summary of Temporary Traffic Control Plan Items (TTCP) (Project A in upper right corner)
 - Summary of Temporary Traffic Control Plan Items (TTCP) (Project B, in upper right corner)
- Continue with summary box order shown above.

The project number in the upper right corner should **ONLY** be used when separate plans for project B do not exist, and work under a separate project number is shown in project A.

SUMMARY OF GENERAL ITEMS									FPID: 999999-5-52-01		
PAY ITEM NO.	PAY ITEM DESCRIPTION	LOCATION		SIDE	UNIT	QUANTITY		TOTAL		DESIGN NOTES	CONSTRUCTION REMARKS
		STA.	TO STA.			P	F	P	F		

8.4 Sample Summary Boxes and Instructions

The summary boxes shown below have been modified to fit this chapter. The complete and latest versions of the summary boxes are available with the FDOT CADD software. The instructions and examples are provided to encourage consistency in the use of the summary boxes.

1. Summary of Lump Sum Items

000: Lump Sum

[Examples; Return to Summary Box List](#)

This form is intended for use with Lump Sum pay items. For items with secondary units, a note should be included with the box to indicate that these quantities are for information purposes only. Secondary unit quantity should be shown in the Design Notes column.

This summary box is NOT intended for use with pay item 999-2 Lump Sum Contract. Refer to 8.7 for summarizing quantities on Lump Sum Projects/Contracts.

This form is not for MOT items, such as Special Detour or Maintenance of Traffic- LS; use the Summary of Temporary Traffic Control Plan Items for MOT- LS.

This form is not for Clearing and Grubbing; use the Summary of Clearing and Grubbing & Removal Items.

For any Lump Sum pay item with a secondary unit, ensure that the secondary quantity is clearly defined, by location or area/D. For example, a LS/SF Item must be quantified by square foot, for each location.

For Lump Sum pay items with a LS secondary unit, the work and materials must be clearly identified by location. Detail the quantities of all items of work, to provide the contractor with sufficient information to bid the total work. As with all pay items, do not include non-quantifiable or contingency items within a Lump Sum item.

Do not include initial contingency or do not bid items on this summary box; these are not for the contractor’s use.

SUMMARY OF LUMP SUM ITEMS					
PAY ITEM NO.	PAY ITEM DESCRIPTION	QUANTITY		DESIGN NOTES	CONSTRUCTION REMARKS
		P	F		

2. Summary of General Items

000: DA, Architectural, Mass Transit, other

[Examples; Return to Summary Box List](#)

This form is intended for use with Per Day items, Architectural Items, Mass Transit Items (if not included on a component plan Tabulation Sheet), and other incidental items with no specified form.

Do NOT use this form for 999-102- Speed and Law Enforcement Officer; this pay item is for use by the Construction Engineer, not the Contractor, and is not shown in a Summary Box.

SUMMARY OF GENERAL ITEMS											
PAY ITEM NO.	PAY ITEM DESCRIPTION	LOCATION		SIDE	UNIT	QUANTITY		TOTAL		DESIGN NOTES	CONSTRUCTION REMARKS
		STA.	TO STA.			P	F	P	F		

3. Summary of Temporary Traffic Control Plan Items (TTCP)

102: Traffic Control

[Examples; Return to Summary Box List](#)

This form is intended for use with most Traffic Control Items. However, Temporary Driveways, Temporary Crash Cushions, and Temporary Signalization and Detection

have separate summary boxes, and are not included on the Summary of TTCP. The format for this Summary Box has been set-up in the CADD software to accommodate additional phases and the grand total.

Do not add an additional column for "All Phases". If a pay item applies to all phases, show the quantity in the total/grand total column, as applicable.

Quantities for Each and Each Day items **MUST** be a whole number. See [examples](#) for items needed less than the full phase duration.

Information such as total days or number of applications should be added to Design Notes column.

This table is used for temporary pavement markings (paint) for MOT quantities. Final Surface Pavement Markings (pay item 710-90) is shown on the Signing and Pavement Marking Tabulation Sheet.

For MOT Items not based on time or days, the duration column may be blank.

Do not include temporary fencing, sodding, or erosion control devices under MOT lump sum; refer to the 550, 570, and 104 pay items respectively.

SUMMARY OF TEMPORARY TRAFFIC CONTROL PLAN ITEMS												DESIGN NOTES	CONSTRUCTION REMARKS	
PAY ITEM NO.	PAY ITEM DESCRIPTION	UNIT	PHASE I			PHASE II			TOTAL					
			DURATION DAYS	QUANTITY P	TOTAL P	DURATION DAYS	QUANTITY P	TOTAL P	P	F				

SUMMARY OF TEMPORARY TRAFFIC CONTROL PLAN ITEMS													DESIGN NOTES	CONSTRUCTION REMARKS
PAY ITEM NO.	PAY ITEM DESCRIPTION	UNIT	PHASE III			PHASE IV			TOTAL		GRAND TOTAL			
			DURATION DAYS	QUANTITY P	TOTAL P	DURATION DAYS	QUANTITY P	TOTAL P	P	F	P	F		

4. Summary of Special Detours

102: Traffic Control

[Examples; Return to Summary Box List](#)

This form is intended for use with Pedestrian and Vehicular Special Detours. DO NOT include this pay item on the Summary of Temporary Traffic Control Plan Items.

Locations MUST be shown in the plans. This is a Lump Sum/ pay item; secondary units for all locations must be shown.

SUMMARY OF SPECIAL DETOURS															
TTC PHASE	LOCATION STA. TO STA.	SIDE	AREA ID	UNITS	SPECIAL DETOUR TEMPORARY PAVEMENT			SPECIAL DETOUR EARTHWORK/BASE			PEDESTRIAN SPECIAL DETOUR			DESIGN NOTES	CONSTRUCTION REMARKS
					0102 2200			0102 2300			0102 4				
					P	SY	F	P	CY	F	P	SY	F		
				LS	1			1			1				

5. Summary of Temporary Highway Lighting

102: Traffic Control

[Examples; Return to Summary Box List](#)

This form is intended for use with Temporary Highway Lighting, in accordance with the FDM. DO NOT include these pay items on the Summary of Temporary Traffic Control Plan Items.

Locations MUST be shown in the plans. This is a Lump Sum/Each item; secondary units for all locations, by phase, must be shown.

SUMMARY OF TEMPORARY HIGHWAY LIGHTING										
TTC PHASE	LOCATION			SIDE	UNITS	TEMPORARY HIGHWAY LIGHTING		SECONDARY UNITS	DESIGN NOTES	CONSTRUCTION REMARKS
	STA. TO STA.					102-30		# POLES		
						P	F	EACH (EA)		
					SUB-TOTAL:					
					TOTAL:					

6. Summary of Pedestrian Longitudinal Channelizing Devices

102: Traffic Control

[Examples; Return to Summary Box List](#)

This form is intended for use with Pedestrian LCDs, in accordance with the FDM.

DO NOT include these pay items on the Summary of Temporary Traffic Control Plan Items. Locations MUST be shown in the plans, per the FDM.

SUMMARY OF PEDESTRIAN LONGITUDINAL CHANNELING DEVICES							
CONST. PHASE	LOCATION		SIDE	QUANTITY		DESIGN NOTES	CONSTRUCTION REMARKS
				0102747			
	LF						
	P	F					
			SUB-TOTAL:				
			TOTAL:				

7. Summary of Temporary Signalization & Detection

102: Traffic Control

[Examples; Return to Summary Box List](#)

This form is intended for use with Temporary Signalization, as well as maintenance of Existing Signalization.

DO NOT include these pay items on the Summary of Temporary Traffic Control Plan Items.

The Design Notes column may be used to identify the intersections by street names/numbers, as needed.

SUMMARY OF TEMPORARY SIGNALIZATION & DETECTION															
PHASE	DURATION DAYS	0102104 TEMPORARY SIGNALS & MAINTENANCE OF INTERSECTION - EACH DAY						0102107 1 TEMPORARY TRAFFIC DETECTION & MAINTENANCE OF INTERSECTION - EACH DAY						DESIGN NOTES	CONSTRUCTION REMARKS
		EXISTING			TEMPORARY			EXISTING			TEMPORARY/NEW				
		#	P	F	#	P	F	#	P	F	#	P	F		
		SUB-TOTAL													
					TOTAL						TOTAL				

8. Summary of Temporary Driveways

102: MOT- Temporary Driveways

[Examples; Return to Summary Box List](#)

This form is intended to summarize the locations for Temporary Driveways, and quantity needed for Commercial Material. DO NOT include this pay item on the Summary of Temporary Traffic Control Plan Items.

SUMMARY OF TEMPORARY DRIVEWAYS								
LOCATION STA. @ C OF DRIVEWAY	SIDE	AREA ID	COMMERCIAL MATERIAL FOR DRIVEWAY MAINTENANCE				DESIGN NOTES	CONSTRUCTION REMARKS
			L	W	THK	0102 3 CY		
			FT	FT	IN	P	F	
SUB-TOTAL:								
TOTAL:								

9. Summary of Temporary Crash Cushions

102: Temporary Crash Cushions

[Examples](#); [Return to Summary Box List](#)

This form is intended for use with Temporary Crash Cushions. Details must be provided for each location. DO NOT include this pay item on the Summary of Temporary Traffic Control Plan Items.

SUMMARY OF TEMPORARY CRASH CUSHIONS											
TTC PHASE	STATION	OFFSET (FT)	SIDE	WORK ZONE SPEED (MPH)	TEST LEVEL (TL-2 OR TL-3)	WIDTH OF HAZARD (IN)	LENGTH RESTRICTION (FT)	TEMPORARY CRASH CUSHION		DESIGN NOTES	CONSTRUCTION REMARKS
								0102	89 I		
								P	F		
SUB-TOTAL											
TOTAL											

10. Summary of Erosion and Sediment Control Devices

104: Erosion Control

[Examples;](#) [Return to Summary Box List](#)

This form is intended for use with Erosion and Sediment Control Devices. Columns may be added or deleted, as necessary for other Section 104 Erosion and Sediment Control pay items. Summarize quantities by location.

SUMMARY OF EROSION AND SEDIMENT CONTROL DEVICES																												
LOCATION	SIDE	AREA ID	ARTIFICIAL COVERINGS			SEDIMENT BASIN			SEDIMENT BASIN CLEANOUT			SEDIMENT BARRIER			FLOATING TURBIDITY BARRIER			STAKED TURBIDITY BARRIER			SOIL TRACKING PREVENTION DEVICE			INLET PROTECTION SYSTEM			DESIGN NOTES	CONSTRUCTION REMARKS
			0104 1	0104 7	0104 9	0104 10 3	0104 11	0104 12	0104 15	0104 18																		
STA. TO STA.			P	EA	F	P	EA	F	P	LF	F	P	LF	F	P	EA	F	P	EA	F								
			SUB-TOTAL																									
			TOTAL																									

11. Summary of Litter Removal and Mowing

107: Litter Removal and Mowing

[Examples; Return to Summary Box List](#)

This form is intended for use with Litter Removal and Mowing. The specification defines the area/limits that should be included for each pay item. Each area must be separately identified/summarized by location. Phases may be combined, if no area/quantity changes are needed.

This Summary Box may extend multiple plan sheets for projects with many small areas, such as urban areas with or without utility mowing strips, sidewalks, and driveways.

SUMMARY OF LITTER REMOVAL AND MOWING															DESIGN NOTES	CONSTRUCTION REMARKS		
CONST. PHASE	LOCATION STA. TO STA.	SIDE	DURATION (DAYS)	FREQUENCY (DAYS)	LITTER REMOVAL						MOWING							
					0107 1						0107 2							
					AREA ID	L	W	CYCLES	AREA		AREA ID	L	W	CYCLES			AREA	
									AC/CYCLE	TOTAL (AC)					AC/CYCLE	TOTAL (AC)		
				P	F	P	F											
			30															
			30															
			30															
			30															
			30															
			30															
			30															
			30															
			30															
			30															
			30															
					SUB-TOTAL			SUB-TOTAL										
					TOTAL			TOTAL										

12. Summary of Monitor Existing Structures

108: Monitor Existing Structures

[Examples; Return to Summary Box List](#)

This form is intended for use with Monitor Existing Structures. The specification defines the area/limits that should be included for each pay item. Do NOT include structures covered under Article 108-2 of the specifications. This box is intended to identify additional locations that may require monitoring outside the limits defined in the specifications (108-1). All locations for pay items 108-2 and 108-3 should be included in the summary box. Place X's in the quantity column and show the total at the bottom as 1.

For Lump Sum projects with no structures outside of the specification limits, it is possible to have an “empty box”, with only the pay item 108-1 column. This empty box will serve as notice that monitoring is needed within the specification limits. Additional [examples](#), including traditional pay item projects, are shown below.

Reviewer/Estimator: The limits in Specification 108-2.1.2 are ONLY for settlement monitoring. ALL Vibration Monitoring and Groundwater Monitoring locations should be shown on the summary box.

SUMMARY OF MONITOR EXISTING STRUCTURES										
SITE NO.	LOCATION	STRUCTURE USAGE	INSPECTION & SETTLEMENT MONITORING		VIBRATION MONITORING		GROUNDWATER MONITORING		DESIGN NOTES	CONSTRUCTION REMARKS
			0108 1		0108 2		0108 3			
	LS		LS		LS					
	P		F	P	F	P	F			
ADDRESS AND/OR STA.										
<i>TOTAL</i>			1		1		1			

THIS LIST INCLUDES EXISTING STRUCTURES (AS DETERMINED BY THE DEPARTMENT) LOCATED OUTSIDE THE LIMITS SPECIFIED IN ARTICLE 108-2 OF THE FDOT SPECIFICATIONS THAT ARE REQUIRED TO BE MONITORED. THIS LIST SHOULD NOT BE CONSIDERED ALL INCLUSIVE AND DOES NOT CONTAIN EXISTING STRUCTURES TO BE MONITORED THAT ARE LOCATED WITHIN THE DISTANCES SPECIFIED IN ARTICLE 108-2.

13. Summary of Clearing and Grubbing & Removal Items

110: Removal Items

Examples: [Return to Summary Box List](#)

This form is intended for use with roadway items to be removed. For Signalization, Signing, or Lighting, use the appropriate tabulation sheet.

This form may be used to detail items to be included under Clearing and Grubbing, LS.

If Clearing & Grubbing, Lump Sum, is used, the quantity for secondary units should be shown in the area column under secondary units. The “P” total should remain 1 LS.

Total acres may be shown in the Design Notes column.

SUMMARY OF CLEARING AND GRUBBING & REMOVAL ITEMS													
PAY ITEM NO.	PAY ITEM DESCRIPTION	LOCATION	SIDE	AREA ID	LENGTH	WIDTH	UNITS	SECONDARY UNITS (IF LUMP SUM)	QUANTITY		TOTAL	DESIGN NOTES	CONSTRUCTION REMARKS
		STA. TO STA.						AREA (AC)	P	F	P		

14. Summary of Mailboxes

110: Mailboxes

Examples: [Return to Summary Box List](#)

This form is intended for use with mailboxes.

SUMMARY OF MAILBOXES					
STATION	SIDE	QUANTITY		DESIGN NOTES	CONSTRUCTION REMARKS
		0110	7 1		
		P	F		
<i>SUB-TOTAL:</i>					
<i>TOTAL:</i>					

15. Summary of Earthwork

120: Earthwork

[Examples;](#) [Return to Summary Box List](#)

This form is intended for use with all earthwork items. For earthwork items with SY units of measure, add column pair with P and F columns.

Expanded area calculations may be included with quantity calculations on additional worksheets.

SUMMARY OF EARTHWORK					
PAY ITEM NO.	PAY ITEM DESCRIPTION	CY		DESIGN NOTES	CONSTRUCTION REMARKS
		P	F		

16. Summary of Geotechnical Items

140s and 400s: Geotechnical

[Examples; Return to Summary Box List](#)

This form is intended for use with Geotechnical Items. Design Notes column may be used to refer to Technical Special Provisions, as applicable, to clarify quantities shown on the summary box.

:

SUMMARY OF GEOTECHNICAL ITEMS												
PAY ITEM NO.	PAY ITEM DESCRIPTION	LOCATION		SIDE	AREA ID	UNIT	QUANTITY		TOTAL		DESIGN NOTES	CONSTRUCTION REMARKS
		STA.	TO STA.				P	F	P	F		

17. Summary of Driveway Base

286: Summary of Driveway Base- base material

[Examples; Return to Summary Box List](#)

This form is intended for use with Driveway Base. Refer to pay item and specification for details. Note: Specification Section title was changed.

For concrete turnouts/driveways, see the Summary of Permanent Driveways or Summary of Sidewalk & Detectable Warnings.

The asphalt surface course (Superpave) is paid separately under 334-Asphalt. The asphalt quantities may be shown on the Summary of Permanent Driveways or Summary of Pavement.

Summary of Driveway Base													
Pay Item Number	Pay Item Description	Units of Measure	Quantity		Total Quantity		Location					Design Notes	Construction Remarks
			P	F	P	F	Alignment	Begin Station	End Station	Side	Element ID		
...													
...													
...													

18. Summary of Pavement

160s, 200s, 300s, 520s, and 546s: Pavement- patterned pavement or architectural pavers, rumble strips.

[Examples; Return to Summary Box List](#)

This form is intended for use with permanent asphalt and concrete pavement, including patterned/textured pavement. For asphalt driveways, the quantity may be shown on this summary box, or the Summary of Permanent Driveways. When driveways are shown on this summary box, add “Driveway” to the description column for each location.

For quantities summarized on the Summary of Permanent Driveways, add a row to this summary box to indicate the total from the former box.

DO NOT break this summary box into separate boxes for each pay item. Follow rules for continued boxes, as needed.

When overbuild is used, show overbuild quantities separate from structural quantities. Add “Overbuild” to the Design Notes column for each location. Do NOT create any other overbuild quantity summary box in the plans. See FDM 306 for overbuild details required. Refer to 334- pay item group for additional details.

SUMMARY OF PAVEMENT														
PAY ITEM NO.	PAY ITEM DESCRIPTION	LOCATION		SIDE	AREA ID	LENGTH	WIDTH	UNIT	QUANTITY		TOTAL		DESIGN NOTES	CONSTRUCTION REMARKS
		STA. TO STA.	DESCRIPTION						P	F	P	F		

19. Summary of Miscellaneous Asphalt Pavement

SUMMARY OF STRUCTURE QUANTITIES - BRIDGE XXXXXX										
SECTION	PAY ITEM NO.	PAY ITEM DESCRIPTION	LOCATION	UNIT	QUANTITY		TOTAL		DESIGN NOTES	CONSTRUCTION REMARKS
					P	F	P	F		
LUMP SUM ITEMS										
EARTHWORK										
FOUNDATION										
CULVERT										
SUBSTRUCTURE										
APPROACH SLABS										
SUPERSTRUCTURE										
RAILING/BARRIERS										
MOVABLE BRIDGE ARCHITECTURAL										
SPECIAL FEATURES										

21. Summary of Box Culverts

400s: Box Culverts, Reinforcing Steel

[Examples; Return to Summary Box List](#)

This form is used for Box Culverts less than 20'.

Bridge Culverts (20' and greater) use the Summary of Structure Quantities, with the bridge number in the summary box heading.

SUMMARY OF BOX CULVERTS									
PAY ITEM NO.	PAY ITEM DESCRIPTION	LOCATION	UNIT	QUANTITY		TOTAL		DESIGN NOTES	CONSTRUCTION REMARKS
		STATION		P	F	P	F		

22. Summary of Walls

400, 534, etc.

[Examples; Return to Summary Box List](#)

This form is intended for use with Noise Walls, MSE walls, Perimeter Walls, Gravity Walls, and Retaining Walls. Barrier Walls should be included on the Summary of Permanent Barrier Walls .

Sheet piling associated with a structure is shown on the Summary of Structure Quantities. Sheet piling not associated with a structure is shown on the Summary of Walls.

Do NOT include rails on this summary box. Use the separate Summary of Railing.

SUMMARY OF WALLS												
WALL NO.	PAY ITEM NO.	PAY ITEM DESCRIPTION	LOCATION		SIDE	UNIT	QUANTITY		TOTAL		DESIGN NOTES	CONSTRUCTION REMARKS
			STA.	TO STA.			P	F	P	F		

23. Summary of Utility Adjustments

425: Manholes & Inlets

[Examples; Return to Summary Box List](#)

Work being completed under the roadway project (-52 project number) will be shown in the roadway plans on the Summary of Utility Adjustments. This is normally limited to utility adjustment for milling, pay items 425-4, 425-5-A, and 425-6.

Work being completed under the JPA (-56 project) will be shown in the utility component plans with a tabulation sheet. DO NOT USE this form for utility component plans.

SUMMARY OF UTILITY ADJUSTMENTS											
PAY ITEM NO.	PAY ITEM DESCRIPTION	LOCATION		SIDE	UNIT	QUANTITY		TOTAL		DESIGN NOTES	CONSTRUCTION REMARKS
		STATION				P	F	P	F		

24. Summary of Side Drain & Mitered End Sections

430: Drainage

[Examples; Return to Summary Box List](#)

These forms are intended for use with Sidedrain and Mitered End Sections. Either form may be used, as needed (with or without flowlines).

Due to space constraints, pay items are not normally shown on Summary of Drainage Structure sheets. DO NOT add pay items to this summary box. Do NOT add a column for sod; use the Summary of Performance Turf.

For miscellaneous drainage work, the Summary of Miscellaneous Drainage Items may be used.

Columns for unused sizes or shapes may be removed. Additional sizes may be added.

SUMMARY OF TRENCH DRAIN					
LOCATION	SIDE	TRENCH DRAIN		DESIGN NOTES	CONSTRUCTION REMARKS
		0436 1 A			
STA. TO STA.		XX" (LF)			
		P	F		
SUB-TOTAL:					
TOTAL:					

27. Summary of Underdrain
 440s: Underdrains
[Examples; Return to Summary Box List](#)

This is an optional form; it is intended for use with Underdrain. Quantities may be included on Summary of Drainage Structures sheet. Do NOT include in both locations.

SUMMARY OF UNDERDRAIN															
LOCATION	SIDE	UNDERDRAIN TYPE								INSPECTION BOX		OUTLET PIPE		DESIGN NOTES	CONSTRUCTION REMARKS
		I (LF)		II (LF)		III (LF)		V (LF)		0440 70 (EA)		0440 73 A 6" (LF)			
STA. TO STA.		P	F	P	F	P	F	P	F	P	F	P	F		
SUB-TOTAL:															
TOTAL:															

28. Summary of French Drain
 443: French Drain, when not included on Summary of Drainage Structures
[Examples; Return to Summary Box List](#)

This is an optional form; it is intended for use with French Drain. Quantities may be included on Summary of Drainage Structures sheet. Do NOT include in both locations.

SUMMARY OF FRENCH DRAIN					
LOCATION	SIDE	FRENCH DRAIN		DESIGN NOTES	CONSTRUCTION REMARKS
		0443 70 AA			
STA. TO STA.		XX" (LF)			
		P	F		
		SUB-TOTAL:			
		TOTAL:			

29. Summary of Edgedrain

446: Edgedrain and outlet pipe, when not included on Summary of Drainage Structures
 Examples; [Return to Summary Box List](#)

This is an optional form; it is intended for use with Edgedrain. Quantities may be included on Summary of Drainage Structures. Do NOT include in both locations.

SUMMARY OF EDGEDRAIN							
LOCATION	SIDE	EDGEDRAIN		OUTLET PIPE LENGTH		DESIGN NOTES	CONSTRUCTION REMARKS
		0446 1 1		0446 71 1			
STA. TO STA.		4" (LF)		4" (LF)			
		P	F	P	F		
		SUB-TOTAL:					
		TOTAL:					

30. Summary of Railing

460, 515: Railings
 Examples; [Return to Summary Box List](#)

This form is intended for use with Metal Railings.

This form is intended for use with Sidewalk. Columns for bus pads may be deleted, if unused. Each detectable warning location/areaID must be listed, with the appropriate area.

For concrete driveways, the quantity may be shown on this summary box (as 6" sidewalk/driveways), or the Summary of Permanent Driveways. For quantities summarized on the Summary of Permanent Driveways, add a row to this summary box to indicate the total from the former box. See examples.

SUMMARY OF SIDEWALK & DETECTABLE WARNINGS																
LOCATION	SIDE	AREA ID	LENGTH	WIDTH	CONC SIDEWALK 4"		CONC SIDEWALK 6"		BUS BAY/BOARDING PAD - CONCRETE		BUS SHELTER PAD - CONCRETE		DETECTABLE WARNINGS		DESIGN NOTES	CONSTRUCTION REMARKS
					0522 1	0522 2	0522 3	0522 4	0527 2							
STA. TO STA.	SY		SY		SY		SY		SF							
	P	F	P	F	P	F	P	F	P	F	P	F				
SUB-TOTAL:																
TOTAL:																

34. Summary of Permanent Driveways

334 or 522: Permanent Driveways
[Examples; Return to Summary Box List](#)

This is an optional form, and is intended for use with Permanent Driveways. Permanent Concrete Driveways may be summarized on the Summary of Sidewalk & Detectable Warnings summary box.

Permanent Asphalt Driveways may be summarized on the Summary of Pavement. DO NOT duplicate quantities by location on multiple summary boxes. For quantities summarized on this box, add a row to the Summary of Pavement (Asphalt) or Summary of Sidewalk (Concrete) to indicate the total from this box. See examples.

Identify each driveway, by location.

SUMMARY OF PERMANENT DRIVEWAYS								
LOCATION	SIDE	AREA ID	MATERIAL				DESIGN NOTES	CONSTRUCTION REMARKS
			CONCRETE (SY)		ASPHALT (TN)			
STA. @ ☐ OF DRIVEWAY			0522	2	0334	1 AA		
			P	F	P	F		
SUB-TOTAL:								
TOTAL:								

35. Summary of Ditch Pavement
524 and 530: Ditch Pavement and Riprap
[Examples; Return to Summary Box List](#)

This is an optional form; it is intended for use with Ditch Pavement and Riprap. Quantities may be included on Summary of Drainage Structures. Note: removal of existing ditch pavement is shown on the Summary of Clearing and Grubbing & Removal.

SUMMARY OF DITCH PAVEMENT												
LOCATION	SIDE	AREA ID	LENGTH	WIDTH	RIPRAP - SAND - CEMENT		RIPRAP - RUBBLE (DITCH LINING)		DITCH PAVEMENT		DESIGN NOTES	CONSTRUCTION REMARKS
					0530 1		0530 3 4		0524 1 A			
					CY		TN		SY			
STA. TO STA.					P	F	P	F	P	F		
SUB-TOTAL:												
TOTAL:												

36. Summary of Guardrail
536: Guardrail
[Examples; Return to Summary Box List](#)

This form is intended for use with Guardrail. Refer to pay item details for use with Thrie Beam guardrail. For removal of Guardrail, add a column to this summary box for 536-73.

SUMMARY OF GUARDRAIL													
LOCATION	SIDE	GUARDRAIL		BRIDGE ANCHORAGE ASSEMBLY		END ANCHORAGE ASSEMBLY		PIPE RAIL		RUB RAIL		DESIGN NOTES	CONSTRUCTION REMARKS
		0536 1 AA		0536 8 A		0536 85 AA		0536 6		0536 5 A			
		LF		EA		EA		LF		LF			
STA. TO STA.		P	F	P	F	P	F	P	F	P	F		
SUB-TOTAL:													
TOTAL:													

37. Summary of Cable Barrier (Pending)
540: Cable Barrier (also Developmental Item 904-540-A)
[Examples; Return to Summary Box List](#)

See Roadway Design Bulletin/Instructions for Developmental Design Standard/ Developmental Standard Plans Instructions for required table.

38. Summary of Permanent Crash Cushions
544: Crash Cushions
[Examples; Return to Summary Box List](#)

NOTE: New summary box, in accordance with SPI 544-001, will be available for projects let July 2019 and later in the CADD software.

This form is intended for use with Permanent Crash Cushions. Details must be provided for each location.

41. Summary of Traffic Monitoring Site Items

695: Traffic Monitoring

[Examples; Return to Summary Box List](#)

This form is ONLY intended for use with Transportation Statistic Office’s Traffic Monitoring Sites. For Traffic Ops or MCSAW Traffic Monitoring Sites, refer to the correct 600-series or 700-series pay items for documentation.

SUMMARY OF TRAFFIC MONITORING SITE ITEMS														DESIGN NOTES	CONSTRUCTION REMARKS												
LOCATION	SITE NO.	STATION	SIDE	CONDUIT		PULL & SPLICE BOX		VEHICLE AXLE SENSOR NON-WEIGHT		NON-INTRUSIVE VEHICLE SENSOR NON-WEIGHT		VEHICLE SPEED/ CLASSIFICATION UNIT				WIRELESS MAGNETOMETER SENSOR		SOLAR POWER UNIT		INDUCTIVE LOOP ASSEMBLY		CABINET		SYSTEM COMMUNICATIONS MODEM			
							0630	2 1B	0635	2 AB	0695	1 1	0695	2 1	0695	3 AB	0695	4 A	0695	5 1	0695	6 12	0695	7 ABC	0695	8 AB	
				P	EA	P	EA	P	EA	P	EA	P	EA	P	EA	P	EA	P	EA	P	EA	P	EA	P	EA		
SUB-TOTAL																											
TOTAL																											

8.5 Tabulation of Quantities

Non-roadway component plans normally use a tabulation of quantities sheet where each pay item is summarized by sheet number. The quantity for each sheet must be calculated with one additional significant decimal place. The grand total, placed on the last tabulation sheet, is then rounded to the defined precision for each pay item. Note: Gross Mile items are to be shown to the defined precision for each pay item, in all columns, due to space constraints.

Refer to the PPM, Vol 2, Chapters 23-29/FDOT Design Manual for sheet numbering guidance.

Landscape: Tabulation of Quantities/Plant Schedule

580: Landscape Items

This form is intended for use with Landscape Items.

Summarize items by pay item and location. For small/large plant pay items, include plant names and sizes. Note all incidental items to be included. For irrigation system, include pipe sizes and lengths, as well as sprinklers and other fixtures.

Signalization: Tabulation of Quantities

600s: Signals

This form is intended for use with Signals Items

Summarize items by pay item and location.

Note: See conduit pay items for additional required plan details.

Signing and Pavement Markings: Tabulation of Quantities

700s: Signing

This form is intended for use with Signing and Pavement Marking Items

Summarize items by pay item and location.

Lighting: Tabulation of Quantities

715: Lighting

This form is intended for use with Lighting Items.

Summarize items by pay item and location.

Note: See conduit pay items for additional required plan details.

Utility: Tabulation of Quantities

U1000: Utility Work

This form is intended for use with Utility Work.

8.6 Pay Items with No Form Required

Maintenance Item- No Form Required

000: Maintenance

NO BOX OR FORM: Maintenance pay items do not require any specific form or summary box.

NA: No applicable form/Form not needed

000: No applicable form

NO BOX OR FORM: DO NOT BID and "special" pay items do not require any summary box or form.

8.7 Lump Sum Contracts

Projects or Contracts using pay item 999-2 will continue to require detailed quantities, by location, for work shown in the plans. Complete the summary boxes or tabulation sheet(s), similar to traditional pay item projects. Do not include the total quantity.

For example, Roadway guardrail is summarized by location from station A to B as 250', station C to D as 300', and station E to F as 500'; do not provide pay item number 536-1-1 or the total quantity.

Pay item numbers are not needed on Summary Boxes or Tabulation sheets for Lump Sum Contracts, but may be used to describe work to be completed. When pay items are included, a note is added to the Summary of Pay Items sheet, per the Plans Preparation Manual/FDOT Design Manual 140:

999-2 Lump Sum Contract: All other Pay Item numbers shown in the Contract Plans are provided only for the purpose of describing the work to be performed. Pay item descriptions are found in the Department's Basis of Estimates Manual."

The above note should be used once. Do not repeat the note on any SQ sheets.

The 999-2 pay item is not shown on a Summary Box.

8.8 Pay Item Request Form

PAY ITEM REQUEST

600-000-02

Note: This form is optional; required information may be sent via e-mail, per Chapter 6. This form is used by designers and consultants when a project requires the use of a pay item that is not defined in the pay item structure. Refer to Chapter 6 for more details.

Chapter 8 Revision History-

11-1-20: Updated header dates for 2021 edition. Separate “Summary Boxes”, valid for FDM 2020 projects in this file. Instructions for “Summary Tables”, valid for FDM 2121 projects, are in a separate Chapter 8 posting.

1-24-20: Updated Summary Box numbering. Added Summary of Special Detours.

11-1-19: Updated header dates for 2020 edition. Noted pending change for Special Detours.

11-1-18: Updated header dates for 2019 edition. Added Summary of Temporary Highway Lighting. Added Summary of Pedestrian Special Detours, Summary of Pedestrian Channelization Devices. Renumbered summary boxes.

2-20-18: Expanded 8-1 to clarify limitations for custom summary boxes.

8-1, Expanded information regarding use of the Design Notes Column.

8-3, List of Summary Boxes- added Summary of Temporary Longitudinal Channelization Devices. Renumbered remaining summary boxes.

Summary of Lump Sum Items- added text to require summary of quantities based on secondary units.

Summary of Temp Traffic Control...- Added text to require whole numbers for EA and ED items, to prevent “reverse calculation” of quantities. Also clarified summary of MOT and final surface paint.

Summary of Temp Signalization- Added text to allow/recommend design notes column to identify intersections.

Summary of Temporary Longitudinal Channelization Devices- new summary box added.

Summary of Permanent Barriers (formerly Barrier Wall)- Updated title based on specification and standard index terminology change.

8-3.3 Added text for plans with multiple projects.

Throughout chapter: for existing PPM references added FDM references.

11-1-17: Updated header dates for 2018 edition. Removed introductory text for Summary Box implementation.

7-6-17: Minor updates:

- Clarified text for roadway pay Items on projects without Roadway component plans.
- Added text to clarify contingency items vs. overruns/adjustments.
- Summary of Lump Sum Items: Clarified usage note.
- Summary of Earthwork: Added guidance for pay items with SY units.
- Summary of Sidewalk: Deleted note for removal of sidewalk. See details for 522-items.

4-11-17: Added note to prohibit custom/project specific summary boxes.

2-2-17: Added notes for Monitor Existing Structures. Added instructions and example

for Temporary Traffic Control Devices with different durations within a phase.

11-1-16: Updated header dates for 2017 edition.

- Summary of Clearing and Grubbing & Removal Items: Updated title, replaced graphic.
- Summary of General Items: removed old note.
- Summary of Box Culverts: Clarified instructions for bridge culverts.
- Summary of Performance Turf: Removed note regarding Temporary Sod. Future guidance pending.
- Summary of Traffic Monitoring Site Items: added graphic.
- Examples: Added text to clarify some of the correct/incorrect features.

6-8-16: NO policy or instruction changes were made. Corrected title of “Traffic Monitoring Site”. Updated examples. Added Landscape Soil details.

1-28-16: Updated entire Chapter for 2016 edition.

- Header: Updated header dates.
- 8-1: Expanded 3rd paragraph to include calculation note.
- 8-2: Clarified that empty columns/rows do not need to be deleted. Added reminder to keep Construction notes column reserved for construction use (not used by designer). Added note to restrict added subtotals.
- 8-3: Clarified sheet numbering. Updated PPM reference. Converted list to table. Added hyperlinks to sample box and examples.
- 8-4: Added “and Instructions” to article heading. Added note regarding examples.
- 8-5 through 8-8: Corrected article numbering.
- 8-5: Expanded text to clarify calculations. Added PPM reference for sheet numbering.
- Summary of General Items: updated guidance. Removed reference to Traffic Monitoring due to new summary box.
- Summary of Special Detour Quantities: Summary Box removed; no longer valid.
- Summary of Monitor Existing Structures: New Summary Box, per bulletins and 2016 PPM. Note change from “Protection of Existing Structures” to “Monitor Existing Structures”.
- Summary of Removal Items: Clarified note for LS item.
- Summary of Geotechnical Items: Clarified note for specification reference.
- Summary of Turnouts: Clarified guidance for showing surface course.
- Summary of Pavement: Clarified guidance for driveways and overbuild.
- Summary of Misc Asphalt Pavement: Removed obsolete note.
- Summary of Sidedrain & MES: updated guidance for Sod/Turf, added reference to PPM, and added note for updated summary box.
- Summary of Sidewalk & Detectable Warnings: Clarified guidance for driveways.
- Summary of Permanent Driveways: Clarified guidance for asphalt driveways.
- Summary of Traffic Monitoring Items: Sample summary box is pending.
- Added Examples & links for all summary boxes. Additional populated examples will be added as they become available.
- Landscape tabulation of Quantities: This tabulation sheet may include the plant

8-20-15: Added Summary Box Examples to end of chapter. Added note above 8.1 Introduction. Formatted 8-3 table for Summary Box Order, to include hyperlinks within

chapter to instructions and examples for each summary box.

8-6-15: Added text to 8.1 Introduction, to address 5 day language for response to quantity questions from Construction. This text was previously located in the *Computation Methods for Design, Construction, and Final Estimates Handbook*. Added text to Summary of Miscellaneous Drainage Items, Summary of Side Drain and Mitered End Sections, Summary of Trench Drain, Summary of Underdrain, and Summary of French Drain, to clarify usage and avoid duplication of quantities.

4-28-15: Added details to Summary of Pavement, to require overbuild quantities to be shown separately from structural quantities. Removed reference to Field Office from Summary of General Items. Removed reference to Special Detours from Summary of Temporary Traffic Control Plan Items. Added note to keep Summary of Temporary Signalization & Detection separate from Summary of Temporary Traffic Control Devices.

2-20-15: Updated note for Summary of Permanent Barrier Wall, to address 521-8 items. Added Summary of Temporary Signalization to list in 8-3. Marked Summary of Special Detour with strikethrough, due to Estimates Bulletin 14-06. Added Summary of Cable Barrier (Pending).

2-10-15: Updated Summary of Structure Quantities and Summary of Walls with note for Sheet Piling. Replaced Summary of Drainage Structures box. Updated note for Special Detour, per Estimates Bulletin 14-06. Updated Summary of Miscellaneous Asphalt; removed column for Temporary Sidewalk.

12-30-14: Updated header dates for 2015 edition. Removed contact information from header. Updated note in red at top of chapter to refer to revision history. Added text to 8.2 for summary box totals to be shown on the first page, per the CADD templates. Added text to 8.3 for multiple projects let under one contract.

10-20-14: Added note to Summary of Guardrail for removal pay item.

10-17-14: Updated all graphics for the latest Summary Boxes.

10-13-14: Added rumble strips to Summary of Pavement.

9-24-14: Temporary Signalization- updated detail. When the new box with total is used, do not include the total on the Summary of Temporary Traffic Control Plan Items. If the old box is used, the total remains on the Summary of Temporary Traffic Control Plan Items.

9-19-14: Updated details for Summary Boxes, as follows:

- Temporary Traffic Control Plan Items: Corrected items, based on new boxes. Added notes to limit format of summary box. Added note for 710-90 and temporary items.
- Added Summary of Temporary Signalization and Detection.
- Litter and Mowing: added notes for areas identified in the plans.
- Miscellaneous Asphalt Pavement: updated notes to remove temporary asphalt and temporary sidewalk.
- Utility Adjustments: updated notes to clarify items to be included.
- Sidedrain and Mitered End Sections: clarified that pay item numbers are not shown, and are not to be added by designer.
- Sidewalk & Detectable Warnings: clarified note for location/area ID.
- Sidewalk, Curb, and Ditch Pavement: added note for removal work. Permanent Crash Cushions: Removed note- cadd file is current.

- Fencing: Added note for temporary fencing.
- Performance Turf: Added note for temp sodding.

9-19-14: Update 8.2 to clarify when columns or rows may be added or deleted.

9-17-14: Updated 8.3 to clarify that non-standard tables may not be included with SQ sheets. Changed TABQLT to TABQXX. Added Summary of Temp Signals to list of Summary Boxes.

9-16-14: Updated 8.6 to clarify note location on the Summary of Pay Items.

8-28-14: Updated Special Detour to include Temporary Bridge information.

8-12-14: Updated introductory information to remove “Draft” statement.

8-7-14: Updated instructions for Lump Sum projects, to allow pay item numbers, with notice.

4-18-14: Updated instructions based on user comments.

3-17-14: Added instructions for projects with no roadway component.

2-26-14: Updated text with additional notes and guidance, per CADD webinar training.

3-6-13: Complete re-write of Chapter, due to change from Comp Book to Plan Summary Boxes. Chapter title changed from “Forms” to “Plan Summary Boxes”. Refer to Estimates Bulletin 13-09 for details.

2-20-13: Updated header dates for 2013 edition.

11-23-11: Updated header dates for 2012 edition.

7-29-11: Updated web link for Construction forms.

5-19-11: Updated web link for Computation Methods For Design, Construction & Final Estimates Handbook.

11-10-10: Updated header dates for 2011 edition. Updated Construction Office web links. Changed font size from 10 pt to 12 pt.

11-8-10: Inserted 8.5 to better explain Forms and Documentation. Renumbered Estimates Forms from 8.5 to 8.6.

10-30-09: Updated header dates for 2010 edition.

10-6-08: Updated header dates for 2009 edition.

10-6-08: Updated pay item request form information, per Chapter 6. Use of the form is optional.

5-14-08: Inserted 8.4, note from Construction and CADD Offices. Requested by Sherry Valdes, State Construction Office & Kenny Rudd, District 3 CADD Office.

Summary Box Examples

These examples are provided to show specific details from the instructions provided above (Chapter 8), as well as pay item specific instructions contained in the details section of various pay items (Chapters 11-20). **The examples are not intended to cover all possible situations.** Please consider the notes associated with the correct/incorrect examples.

Additional examples of correct/incorrect summary boxes are welcome and appreciated. Submit files to: FDOT-payitems@dot.state.fl.us

Miscellaneous Errors:

Do NOT move or delete the total columns or rows. The total for a pay item should be found on either the FIRST row when the items total across, or the FIRST summary box when the items total at the bottom.

Do NOT include Tab sheets within the SQ sheets. They go after the SQ sheets and are numbered with the rest of the component plan set.

Construction Requirements:

When noting plans revisions, DO NOT use the areas reserved for construction's use, including the Construction Remarks column. In accordance with CADD requirements, do NOT reduce the summary box or font size; this makes it difficult to note construction changes.

Construction Request:

For Summary Boxes totaled at the bottom, please leave 2 empty rows before this subtotal, for construction use. This may not currently be possible for some automated boxes; CADD will review the templates.

General Notes:

The hyphen in the pay item is acceptable; however, when used, it needs to be consistent throughout the summary boxes.

Blank rows used to separate pay item groups, locations, etc. may be helpful for easier reading; this is a designer option.

1. Summary of Lump Sum Items

[Instructions; Return to Summary Box List](#)

Correct: This summary box is appropriate for lump sum pay items that do not require location information/station, secondary units, or arealD/dimensions. Do not use this box for lump sum items that require additional information.

SUMMARY OF LUMP SUM ITEMS					
PAY ITEM NO.	PAY ITEM DESCRIPTION	QUANTITY		DESIGN NOTES	CONSTRUCTION REMARKS
		P	F		
0101-1	MOBILIZATION	1			

Incorrect:

102-1 belongs on the Summary of Temporary Traffic Control Plan Items

110-1-1 belongs on the Summary of Clearing and Grubbing & Removal Items. Location and quantities for secondary units are needed.

SUMMARY OF LUMP SUM ITEMS								
PAY ITEM NO.	UNIT	SECONDARY UNIT	AREA ID	PAY ITEM DESCRIPTION	QUANTITY		TOTAL	CONSTRUCTION REMARKS
					P	F		
0101 1	LS			MOBILIZATION	1		1	
0102 1	LS			MAINTENANCE OF TRAFFIC	1		1	
0110 1 1	LS	AC	153189	CLEARING & GRUBBING	1/ (30.05AC)		1/ (30.05AC)	

2. Summary of General Items

[Instructions](#); [Return to Summary Box List](#)

Correct:

Incorrect:

Location information is missing.

SUMMARY OF GENERAL ITEMS						
PAY ITEM NO.	PAY ITEM DESCRIPTION	LOCATION	UNIT	QUANTITY		CONSTRUCTION REMARKS
				P	F	
0519 78	BOLLARDS		EA	70		
	FIXED - 30					
	REMOVABLE - 9					
	WOODEN - 31					

Do not use the Summary of General Items for component items that belong on a Tabulation Sheet (Signalization, Signing and Pavement Markings, Lighting, etc.)

102-3 belongs on Summary of Temporary Driveways. It does not go with the General Items.

SUMMARY OF GENERAL ITEMS						
PAY ITEM NO.	PAY ITEM DESCRIPTION	UNITS	QUANTITY		DESIGN NOTES	CONSTRUCTION REMARKS
			P	F		
102-3	COMMERCIAL MATERIAL FOR DRIVEWAY MAINTENANCE	CY	7		FOR TEMP. DRIVEWAY ACCESS	
					AT STA. 110+94.33 TO STA. 111+29.33	

3. Summary of Temporary Traffic Control Plan Items (TTCP)

[Instructions](#); [Return to Summary Box List](#)

Correct:

102-78 Temporary Retroreflective Pavement Markers used for MOT are included in this summary box.

102-14 Traffic Control Officer (contractor's use for MOT) is included by phase in this summary box.

SUMMARY OF TEMPORARY TRAFFIC CONTROL PLAN ITEMS													
PAY ITEM NO.	PAY ITEM DESCRIPTION	UNIT	PHASE I			PHASE II			TOTAL		DESIGN NOTES	CONSTRUCTION REMARKS	
			DURATION	QUANTITY	TOTAL	DURATION	QUANTITY	TOTAL	P	F			
			DAYS	P	P	DAYS	P	P					
0102-1	MAINTENANCE OF TRAFFIC	LS								1		500 CONSTRUCTION DAYS	
0102-2-1	SPECIAL DETOUR - DIVERSION 1	LS		1	1					1			
0102-2-2	SPECIAL DETOUR - DIVERSION 2	LS					1	1	1				
0102-14	TRAFFIC CONTROL OFFICER	MH			2			2	4				
0102-60	WORK ZONE SIGN	ED	300	23	6,900	147	23	3,381	10,281				
0102-61	BUSINESS SIGN	ED	300	3	900	147	3	441	1,341				
0102-71-11	TEMPORARY BARRIER WALL	LF		564	564				564				
0102-74-1	CHANNELIZING DEVICE, TYPES I, II, DI, VP, Drum, OR LCD	ED	300	560	168,000	147	437	64,239	232,239				
0102-74-2	CHANNELIZING DEVICE, TYPE III, 6'	ED	300	10	3,000	147	10	1,470	4,470				
0102-76	ARROW BOARD / ADVANCE WARNING ARROW PANEL	ED	300	2	600	147	2	294	894				
0102-78	TEMPORARY RETROREFLECTIVE PAVEMENT MARKER	EA		1187	1,187		649	649	1,836				
0102-99	PORTABLE CHANGEABLE MESSAGE SIGN - TEMPORARY	ED	307	4	1,228	147	2	294	1,522			INCLUDES 7 DAYS PRIOR	
0102-911-2	REMOVABLE TAPE PAVEMENT MARKING - WHITE / BLACK	LF		521	521				521				
0710-11-101	PAINTED PAVEMENT MARKINGS, STD, WHITE, SOLID, 6"	NM		5,337	5,337		5,337	5,337	11				
0710-11-102	PAINTED PAVEMENT MARKINGS, STD, WHITE, SOLID 8"	GM		1,531	1,531		1,531	1,531	3				
0710-11-123	PAINTED PAVEMENT MARKINGS, STD, WHITE, SOLID 12"	LF		1,636	1,636		1,636	1,636	3,272				
0710-11-124	PAINTED PAVEMENT MARKINGS, STD, WHITE, SOLID, 18"	LF		3,259	3,259		3,259	3,259	6,518				
0710-11-125	PAINTED PAVEMENT MARKINGS, STD, WHITE, SOLID, 24"	LF		1,733	1,733		1,733	1,733	3,466				
0710-11-131	PAVEMENT PAVEMENT MARKINGS, STD, WHITE, SKIP 10-30 OR 3-9 SKIP, 6" WIDE	GM		3,935	3,935		3,935	3,935	0				
0710-11-141	PAINTED PAVEMENT MARKINGS, STD, WHITE, DOTTED, GAP EXTENSION 6"	GM		2,128	2,128		2,128	2,128	4				
0710-11-160	PAINTED PAVEMENT MARKINGS, SRD, WHITE, MESSAGE OR SYMBOL	EA		23	23		23	23	46				
0710-11-170	PAINTED PAVEMENT MARKINGS, STD, WHITE, ARROWS	EA		69	69		69	69	138				
0710-11-201	PAINTED PAVEMENT MARKINGS, STD, YELLOW, SOLID, 6"	NM		5,555	5,555		5,555	5,555	11				
0710-11-224	PAINTED PAVEMENT MARKINGS, STD, YELLOW, SOLID, 18"	LF		281	281		281	281	562				
0710-11-241	PAINTED PAVEMENT MARKINGS, STD, YELLOW, DOTTED, GAP EXTENSION 6"	GM		0.131	0.131		0.131	0.131	0.262				

Always use whole numbers for "Each" and "Each Day" item quantities. Add additional rows for different durations within the phase. See below for Items needed less than the full phase duration, example with 3 devices needed for 60 days, and 2 devices needed for 30 days:

SUMMARY OF TEMPORARY TRAFFIC CONTROL PLAN ITEMS									
PAY ITEM NO.	PAY ITEM DESCRIPTION	UNIT	PHASE I			TOTAL		DESIGN NOTES	CONSTRUCTION REMARKS
			DURATION	QUANTITY	TOTAL	P	F		
			DAYS	P	P				
102-76	ARROW BOARD/ ADVANCE WARNING ARROW PANEL	ED				240		Total, both locations	
		ED	60	3	180			Location aaaa	
		ED	30	2	60			Location bbb	

Incorrect:

Do not include 706-3 Reflective Pavement Markers (RPMs) with Temporary Traffic Control Plan Items. Permanent RPMs are included with 710-90 Final Surface Markings.

6. Summary of Pedestrian Longitudinal Channelizing Devices

[Instructions](#); [Return to Summary Box List](#)

Correct: Indicate duration when remaining for more than one phase. See Pedestrian Special Detour when walking surface is needed.

SUMMARY OF PEDESTRIAN LONGITUDINAL CHANNELIZING DEVICES						
CONST. PHASE	LOCATION STA. TO STA.	SIDE	QUANTITY		DESIGN NOTES	CONSTRUCTION REMARKS
			0102 74 7			
	LF					
			P	F		
1	160+00 TO 161+50	Lt.	150		REMAINING IN PLACE FROM PHASE 1 THRU PHASE 3	
1	161+50 TO 165+00	Rt.	350			
1	163+00 TO 164+00	Lt.	100			
1	166+00 TO 166+00	Lt.	5		SIDEWALK CLOSURE	
2	164+00 TO 165+00	Rt.	100		REMAINING IN PLACE FROM PHASE 2 THRU PHASE 3	
3	164+00 TO 165+00	Lt.	200		100' x 2 SIDES OF TEMPORARY WALKWAY	
3	166+00 TO 166+00	Rt.	5		SIDEWALK CLOSURE	
		TOTAL	910			

Incorrect:

7. Summary of Temporary Signalization & Detection

[Instructions](#); [Return to Summary Box List](#)

Correct: This form is NOT limited to “Temporary Signals”. Quantity based on maintaining existing intersections for the full duration of project. See additional information under pay item 102-104- and 102-107-1. Design Notes column may be used to identify location or intersection location(s).

SUMMARY OF TEMPORARY SIGNALIZATION & DETECTION															
PHASE	DURATION	0102104						0102107 1						DESIGN NOTES	CONSTRUCTION REMARKS
		TEMPORARY SIGNALS & MAINTENANCE OF INTERSECTION - EACH DAY						TEMPORARY TRAFFIC DETECTION & MAINTENANCE OF INTERSECTION - EACH DAY							
		EXISTING			TEMPORARY			EXISTING			TEMPORARY/NEW				
		DAYS	#	P	F	#	P	F	#	P	F	#	P		
1	91	3	273					3	273						
2	190	3	570					3	570						
3	152	3	456					3	456						
4	31	3	93					3	93						
SUB-TOTAL			1392						1392						
		TOTAL			1392			TOTAL			1392				

Incorrect:

Quantities must be summarized by phase, or indicate “all phases”. Missing Construction Remarks column.

8. Summary of Temporary Driveways

[Instructions](#); [Return to Summary Box List](#)

Correct: Example with location and dimensions.

SUMMARY OF TEMPORARY DRIVEWAYS							
LOCATION STA. @ C/ OF DRIVEWAY	SIDE	COMMERCIAL MATERIAL FOR DRIVEWAY MAINTENANCE				DESIGN NOTES	CONSTRUCTION REMARKS
		L FT	W FT	THK IN	CY P F		
70+53.00	RT	39.50	12.00	6.00	8.8		PHASE 1
70+85.00	RT	40.00	12.00	6.00	8.9		PHASE 1
72+27.00	RT	40.00	12.00	6.00	8.9		PHASE 1
61+48.00	LT	41.00	12.00	6.00	9.1		PHASE 2
62+87.00	LT	41.00	12.00	6.00	9.1		PHASE 2
66+03.00	LT	41.00	18.00	6.00	13.7		PHASE 2
71+56.00	LT	41.50	12.00	6.00	9.2		PHASE 2
SUB-TOTAL:					68		
TOTAL:					68		

Example with Location, Area ID, and Thickness

SUMMARY OF TEMPORARY DRIVEWAYS							
LOCATION STA. @ C/ OF DRIVEWAY	SIDE	AREA ID	COMMERCIAL MATERIAL FOR DRIVEWAY MAINTENANCE			DESIGN NOTES	CONSTRUCTION REMARKS
			THK IN	0102 3 CY P F			
1011+00.00	LT	290406	2.00	7.76			PHASE 1
1014+00.00	LT	290392	2.00	3.34			PHASE 1
1014+00.00	LT	290399	2.00	3.10			PHASE 1
1018+60.00	RT	290619	2.00	2.66			PHASE 1
1019+65.00	RT	290636	2.00	2.96			PHASE 1
1020+25.00	RT	290656	2.00	2.07			PHASE 1
291+62.00	LT/RT	290898	2.00	6.10			PHASE 3
294+25.00	LT/RT	290842	2.00	4.40			PHASE 3
1016+50.00	LT/RT	290820	2.00	3.58			PHASE 3
1018+60.00	LT/RT	290803	2.00	1.62			PHASE 3
1019+65.00	LT/RT	290831	2.00	2.51			PHASE 3
1020+25.00	LT/RT	290775	2.00	2.29			PHASE 3
SUB-TOTAL:					42.4		
TOTAL:					42		

Incorrect:

9. Summary of Temporary Crash Cushions

[Instructions](#); [Return to Summary Box List](#)

Correct: Do not remove any columns from this table; **all design information is required.** If length restriction does not apply, use N/A; do not remove column.

SUMMARY OF TEMPORARY CRASH CUSHIONS												
TTC PHASE	STATION	OFFSET (FT)	SIDE	WORK ZONE SPEED (MPH)	TEST LEVEL (TL-2 OR TL-3)	WIDTH OF HAZARD (IN)	LENGTH RESTRICTION (FT)	TEMPORARY CRASH CUSHION			DESIGN NOTES	CONSTRUCTION REMARKS
								0102	89	1		
								P	F			
I	1371+65.30	8.50	LT.	50	TL-3	24.00	N/A	1				
I	1374+00.00	35.64	LT.	50	TL-3	24.00	N/A	1				
I	100+49.38	5.50	RT.	40/50	TL-3	24.00	N/A	1				
I	1712+92.00	90.86	RT.	70	TL-3	24.00	N/A	1				
I	85+80.00	8.36	LT.	50	TL-3	24.00	N/A	1		RAMP A-1		
I	85+80.00	21.00	RT.	50	TL-3	24.00	N/A	1		RAMP A-1		
I	418+40.00	8.29	LT.	50	TL-3	24.00	N/A	1		RAMP D-1		
I	418+40.00	21.69	RT.	50	TL-3	24.00	N/A	1		RAMP D-1		
I	SLIGH AVE.	SEE PLANS	LT.	40	TL-2	24.00	N/A	1				
I	SLIGH AVE.	SEE PLANS	RT.	40	TL-2	24.00	N/A	1				
I	SLIGH AVE.	SEE PLANS	LT.	40	TL-2	24.00	N/A	1				
I	SLIGH AVE.	SEE PLANS	RT.	40	TL-2	24.00	N/A	1				
II	1372+21.12	19.79	LT.	50	TL-3	24.00	N/A	1				
III	1210+00.00	17.00	RT.	40/50	TL-3	24.00	N/A	1				
SUB-TOTAL:								14				
TOTAL:								14				

Incorrect:

10. Summary of Erosion and Sediment Control Devices

[Instructions](#); [Return to Summary Box List](#)

Correct: When a Summary Box continues on multiple sheets, totals for ALL columns are to be shown on the FIRST sheet of the series.

SUMMARY OF EROSION AND SEDIMENT CONTROL DEVICES															
LOCATION STA. TO STA.	SIDE	AREA ID	ARTIFICIAL COVERINGS / ROLLED EROSION CONTROL		SEDIMENT BARRIER		FLOATING TURBIDITY BARRIER		SOIL TRACKING PREVENTION DEVICE		INLET PROTECTION SYSTEM		DESIGN NOTES	CONSTRUCTION REMARKS	
			104 1		0104 10 3		0104 11		0104 15		0104 18				
			LF		LF		LF		EA		EA				
			P	F	P	F	P	F	P	F	P	F			
1401+69.67 R2 to 1403+76.66 R2	RT				252.7										
1401+78.80 R2 to 1403+69.32 R2	LT				243.1										
1404+01.92 R2 to 1407+29.79 R2	RT				418.0										
1404+07.29 R2 to 1411+03.51 R2	LT				755.3										
1407+68.94 R2 to 1411+02.14 R2	RT				414.2										
1410+74.82 R2 to 1410+78.56 R2	RT				4.9										
1411+39.97 R2 to 1414+72.72 R2	RT				406.6										
1411+42.18 R2 to 1418+30.39 R2	LT				830.8										
1415+06.38 R2 to 1418+28.18 R2	RT				375.8										
1418+74.44 R2 to 1421+44.39 R2	RT				449.0										
1418+80.65 R2 to 1421+32.57 R2	LT				390.2										
1418+81.13 R2 to 1418+81.64 R2	LT				15.0										
1418+93.50 R2 to 1419+00.00 R2	RT				6.7										
1422+44.37 R2 to 1428+25.73 R2	RT				756.9										
1422+47.14 R2 to 1436+85.49 R3	LT				1483.9										
1428+50.18 R2 to 1436+61.28 R3	RT				1024.9										
1437+43.12 R3 to 1441+33.27 R3	LT				404.1										
1437+49.84 R3 to 1441+42.10 R3	RT				448.3										
1441+72.52 R3 to 1445+23.59 R3	LT				373.6										
1441+76.60 R3 to 1445+21.40 R3	RT				375.0										
1445+62.91 R3 to 1452+80.15 R3	LT				697.2										
1445+72.40 R3 to 1448+40.49 R3	RT				293.9										
1448+61.31 R3 to 1451+00.00 R3	RT				251.8										
1451+57.58 R3 to 1455+63.05 R3	RT				416.0										
1453+18.60 R3 to 1461+92.11 R3	LT				902.7										
1455+99.20 R3 to 1461+76.64 R3	RT				618.8										
1425+44.51 R2 to 1426+37.18 R2	RT							92.8							
1425+95.55 R2 to 1426+58.44 R2	LT							67.0							
1447+52.17 R3 to 1447+95.65 R3	RT							45.7							
1447+98.03 R3 to 1448+52.40 R3	LT							51.8							
1407+31.18 R2 to 1407+33.22 R2	RT												I		
1407+52.74 R2 to 1407+54.78 R2	LT													I	
1407+64.39 R2 to 1407+66.43 R2	RT													I	
1411+01.08 R2 to 1411+03.12 R2	RT													I	
1411+33.99 R2 to 1411+36.03 R2	RT													I	
1411+35.28 R2 to 1411+37.33 R2	LT													I	
1414+70.92 R2 to 1414+72.97 R2	RT													I	
1414+90.54 R2 to 1414+92.59 R2	LT													I	
1415+04.03 R2 to 1415+06.08 R2	RT													I	
1415+04.74 R2 to 1415+06.78 R2	LT/RT													I	
1418+05.39 R2 to 1418+07.43 R2	LT/RT													I	
1418+31.29 R2 to 1418+33.33 R2	RT													I	
1418+65.40 R2 to 1418+67.44 R2	RT													I	
1419+57.24 R2 to 1419+59.29 R2	LT													I	
1420+58.92 R2 to 1420+60.96 R2	LT													I	
SUB-TOTAL:					*349			12609.4			257.3		*2	15	* SEE PAY ITEM NOTES FOR BASIS OF CALCULATIONS
PLAN TOTAL:					349			12609			257		2	31	
FINAL TOTAL:															

Incorrect:

Do not add pay item notes for replacement. Per the specification, no separate payment is made for maintenance or replacement.

3. PAY ITEM 104-10-3 (SEDIMENT BARRIER)
INCLUDES ALL COSTS FOR RESTAKING AND MAINTENANCE OF FENCE; AND IS BASED ON
REPLACEMENT EVERY 12 MONTHS.

Do not specify type of barrier; per the specification, this is an option open to the contractor. Totals are to be shown on the FIRST sheet of a series. The incorrect example below is for a “cont.” sheet in the series and should NOT include the series total.

SUMMARY OF EROSION AND SEDIMENT CONTROL DEVICES (CONT.)											
LOCATION	SIDE	SEDIMENT BARRIER		FLOATING TURBIDITY BARRIER		SOIL TRACKING PREVENTION DEVICE		INLET PROTECTION SYSTEM		DESIGN NOTES	
		0104 10 2		0104 11		0104 15		0104 18			
STA. TO STA.		LF		LF		EA		EA			
		P	F	P	F	P	F	P	F		
455+17.34	10	453+17.35	LT.	61.9							SYNTHETIC BALES
458+15.84	10	458+17.08	LT.	62.8							SYNTHETIC BALES
458+87.25	10	458+87.78	RT.	82.8							SYNTHETIC BALES
460+01.33	10	460+02.05	LT.	62.8							SYNTHETIC BALES
462+37.50	10	462+37.10	LT.	80.5							SYNTHETIC BALES
465+00.90	10	465+02.63	LT.	82.8							SYNTHETIC BALES
466+86.95	10	466+85.34	LT./RT.	62.8							SYNTHETIC BALES
469+52.39	10	469+58.63	LT.	62.8							SYNTHETIC BALES
470+47.70	10	470+52.36	LT.	62.8							SYNTHETIC BALES
488+18.78	10	488+23.73	LT.	61.2							SYNTHETIC BALES
493+29.31	10	493+30.09	RT.	65.8							SYNTHETIC BALES
516+69.45	10	516+70.07	LT.	69.3							SYNTHETIC BALES
309+38.78	10	320+25.00	LT.	1137.9							STAKED SILT FENCE
321+30.00	10	3348+20.00	LT.	2654.2							STAKED SILT FENCE
322+24.85	10	348+80.00	RT.	2688.7							STAKED SILT FENCE
1348+78.98	10	1399+76.12	LT.	5089.4							STAKED SILT FENCE
349+20.00	10	400+17.40	RT.	5114.5							STAKED SILT FENCE
1402+68.23	10	1446+21.80	LT.	4479.0							STAKED SILT FENCE
403+21.69	10	439+70.58	RT.	3539.2							STAKED SILT FENCE
441+87.94	10	1445+13.28	LT./RT.	263.3							STAKED SILT FENCE
443+70.82	10	449+48.53	RT.	539.8							STAKED SILT FENCE
444+04.50	10	1447+20.28	LT./RT.	239.1							STAKED SILT FENCE
1448+74.13	10	1464+09.18	LT.	1587.0							STAKED SILT FENCE
454+73.46	10	455+32.30	RT.	120.8							STAKED SILT FENCE
459+08.86	10	461+58.73	RT.	240.2							STAKED SILT FENCE
488+22.11	10	316+78.48	LT.	2632.5							STAKED SILT FENCE
497+70.26	10	499+32.23	RT.	126.0							STAKED SILT FENCE
502+88.14	10	503+31.40	RT.	129.8							STAKED SILT FENCE
504+81.83	10	303+30.01	RT.	120.5							STAKED SILT FENCE
1402+78.44	10	1402+87.43	RT.		141.0						FLOATING TURBIDITY
1444+33.42	10	1446+37.74	LT./RT.		221.2						FLOATING TURBIDITY
1446+76.10	10	1448+03.92	LT./RT.		226.2						FLOATING TURBIDITY
440+34.32	10	442+11.90	LT./RT.		221.2						FLOATING TURBIDITY
442+88.78	10	444+13.04	LT./RT.		226.2						FLOATING TURBIDITY
311+21.19	10	488+24.15	LT./RT.			8					1 DEVICE PER WILE NB & SB
305+29.21			RT.					1			INLET PROTECTION SYSTEM
315+88.84			RT.					1			INLET PROTECTION SYSTEM
468+30.61			RT.					1			INLET PROTECTION SYSTEM
471+99.86			RT.					1			INLET PROTECTION SYSTEM
475+00.30			RT.					1			INLET PROTECTION SYSTEM
478+01.22			RT.					1			INLET PROTECTION SYSTEM
488+00.99			RT.					1			INLET PROTECTION SYSTEM
497+85.12			RT.					1			INLET PROTECTION SYSTEM
498+82.46			LT.					1			INLET PROTECTION SYSTEM
505+48.00			LT.					1			INLET PROTECTION SYSTEM
		SUB-TOTAL		31487		1036		8		10	
		FINAL PLAN		38203		1036		8		10	

11. Summary of Litter Removal and Mowing

[Instructions](#); [Return to Summary Box List](#)

Correct:

Frequency estimated based on 30 day cycle.

Separate entry for each area. When automated, the mowing areas and quantities may follow the litter removal areas and quantities.

Use "same as phase x", when applicable.

Note: Only use "ALL" for the Const. Phase column when TCP does not affect the areas for quantities. Otherwise, ensure locations are separated by phases.

Totals are to be shown on the FIRST sheet of a series (not shown correctly below). This summary box does not appear to extend to multiple sheets.

SUMMARY OF LITTER REMOVAL AND MOWING																
CONST. PHASE	LOCATION STA. TO STA.	SIDE	DURATION (DAYS)	FREQUENCY (DAYS)	LITTER REMOVAL 0107 1					MOWING 0107 2					DESIGN NOTES	CONSTRUCTION REMARKS
					AREA ID	CYCLES	AREA			AREA ID	CYCLES	AREA				
							AC/ CYCLE	TOTAL (AC)				AC/ CYCLE	TOTAL (AC)			
								P	S				P	S		
ALL	27+48.09 to 28+48.08	L7	80	30	17787	3	0.130	0.431								
ALL	27+48.09 to 28+58.03	R7	80	30	17781	3	0.075	0.225								
ALL	28+48.22 to 29+12.28	L7	80	30	17751	3	0.225	0.681								
ALL	28+58.00 to 29+52.27	R7	80	30	17748	3	0.205	0.601								
ALL	27+48.09 to 28+61.09	L7	80	80					17558	3	0.120	0.360				
ALL	27+48.07 to 28+69.21	R7	80	30					17567	3	0.250	0.750				
ALL	28+48.21 to 29+03.80	L7	80	80					17683	3	0.040	0.120				
ALL	28+63.21 to 29+26.88	R7	80	30					17695	3	0.048	0.144				
ALL	29+08.60 to 29+62.29	L7	80	80					17608	3	0.270	0.810				
ALL	29+32.62 to 29+34.88	R7	80	30					17597	3	0.070	0.210				
ALL	22+02.27 to 23+63.83	R7	80	30					17628	3	0.870	2.610				
ALL	23+29.57 to 24+08.91	L7	80	80					17643	3	0.070	0.210				
ALL	23+27.70 to 24+09.91	R7	80	30					17620	3	0.070	0.210				
					SUM TOTAL					SUM TOTAL						
					TOTAL					TOTAL						

Incorrect:

Each area must be separately identified, either by Area ID or Length/width/location.

Do NOT lump quantities for a phase in one row. (This was acceptable ONLY when supported by a Computation Book, prior to Summary Boxes)

Do not add footnotes to this box.

Totals are to be shown on the FIRST sheet of a series. The example below correctly shows the totals at the bottom of the sheet.

SUMMARY OF LITTER REMOVAL AND MOWING																	
CONST. PHASE	LOCATION STA. TO STA.	DURATION (DAYS)	FREQUENCY (DAYS)	LITTER REMOVAL						MOWING						DESIGN NOTES	CONSTRUCTION REMARKS
				0107 1						0107 2							
				AREA ID	LENGTH	WIDTH	CYCLES	AREA		AREA ID	LENGTH	WIDTH	CYCLES	AREA			
								AC/CYCLE	TOTAL (AC)					AC/CYCLE	TOTAL (AC)		
P	F	P	F														
I	54+21.33 - 760+50.00	20	30				1	261.850	261.850					1	212.730	212.730	
II	450+00.00 - 597+00.00	420	30				14	38.910	544.740					14	46.420	649.880	
III	450+00.00 - 597+00.00	350	30				12	38.910	453.930					12	46.420	547.587	
IV	450+00.00 - 597+00.00	30	30				1	38.910	38.910					1	46.420	46.420	
SUB-TOTAL								1299.450		SUB-TOTAL						1450.597	
TOTAL								1299.45		TOTAL						1450.60	

THE PHASE DURATIONS SHOWN ARE NOT BASED ON PROJECT SCHEDULE AND SHOULD NOT BE USED FOR SCHEDULING PURPOSES BY THE CONTRACTOR

Separate Location column required for each of the pay items.

SUMMARY OF LITTER REMOVAL AND MOWING																					
CONST. PHASE	LOCATION STA. TO STA.	SIDE	AREA ID	LENGTH	WIDTH	DURATION (DAYS)	FREQUENCY (DAYS)	LITTER REMOVAL						MOWING						DESIGN NOTES	CONSTRUCTION REMARKS
								0107 1						0107 2							
								CYCLES	AREA		CYCLES	AREA									
									AC/CYCLE	TOTAL (AC)		AC/CYCLE	TOTAL (AC)								
P	F	P	F																		
ALL	203+00.00 To 264+64.88					230	30	#	5.3	42.4		#	1.37	10.95							
SUB-TOTAL								42.4		SUB-TOTAL						10.95					
TOTAL								42.4		TOTAL						10.95					

NOTE: THE PHASE DURATIONS SHOWN ARE NOT BASED ON PROJECT SCHEDULE AND SHALL NOT BE USED FOR SCHEDULING PURPOSES BY THE CONTRACTOR.

Do NOT modify the pay item description in the header rows.

SUMMARY OF LITTER REMOVAL AND MOWING																		
CONST. PHASE	LOCATION STA. TO STA.	SIDE	DURATION (DAYS)	FREQUENCY (DAYS)	LITTER 0107-1						MOWING 0107-2						DESIGN NOTES	CONSTRUCTION REMARKS
					CYCLES	AREA		CYCLES	AREA									
						AC/CYCLE	TOTAL (AC)		AC/CYCLE	TOTAL (AC)								
					P	F	P	F										
	429+13.59 - 456+30.95	RT	60	30	2	3.001	6.003	2	2.405	4.810								
	429+13.59 - 466+11.77	MED	60	30	2	1.965	3.930	2	1.830	3.660								
	429+58.54 - 442+46.47	LT	60	30	2	1.131	2.262	2	0.925	1.851								
	442+46.47 - 456+06.77	LT	60	30	2	1.518	3.035	2	1.208	2.416								
	456+06.77 - 466+12.11	LT	60	30	2	1.602	3.204	2	1.407	2.814								
	456+30.95 - 466+11.77	RT	60	30	2	0.971	1.942	2	0.775	1.550								
SUB-TOTAL								20.376		SUB-TOTAL						17.101		
TOTAL								20.38		TOTAL						17.10		

Individual locations are not shown. Areas are lumped together for left and right. Per specifications the limits are different for Litter Removal and Mowing areas.

SUMMARY OF LITTER REMOVAL AND MOWING															
CONST. PHASE	LOCATION	SIDE	AREA (SY)	DURATION (DAYS)	FREQUENCY (DAYS)	LITTER REMOVAL				MOWING				DESIGN NOTES	CONSTRUCTION REMARKS
						0107 1				0107 2					
	STA. TO STA.					CYCLES	AREA		CYCLES	AREA					
							AC / CYCLE	TOTAL (AC)		AC / CYCLE	TOTAL (AC)				
P	F	P	F												
ALL PHASES	197+00.00 TO 458+59.29	LT/RT	327888.9	1200	30	40	52.950	2118.00							
ALL PHASES	197+00.00 TO 458+59.29	LT/RT	277888.9	1200	30				40	42.770	1710.80				
SUB-TOTAL:								2118.00	SUB-TOTAL:				1710.80		
TOTAL:								2118.00 AC	TOTAL:				1710.80 AC		

Do not list the Area ID as a range. Each areaID/location must be listed in the summary box.

SUMMARY OF LITTER REMOVAL AND MOWING															
CONST. PHASE	LOCATION	SIDE	DURATION (DAYS)	FREQUENCY (DAYS)	LITTER REMOVAL				MOWING				DESIGN NOTES	CONSTRUCTION REMARKS	
					0107 1				0107 2						
	STA. TO STA.				AREA ID	CYCLES	AREA		AREA ID	CYCLES	AREA				
							AC / CYCLE	TOTAL (AC)			AC / CYCLE	TOTAL (AC)			
P	F	P	F												
ALL	248+48.96-328+95	LT/RT	160	30	41977 to 43103	6	14.300	85.800	49146 to 52760	6	5.100	30.600			
SUB-TOTAL:								85.800	SUB-TOTAL:				30.600		
TOTAL:								85.80	TOTAL:				30.60		

12. Summary of Monitor Existing Structures

[Instructions](#); [Return to Summary Box List](#)

Correct:

The example below is correct for projects where monitoring is required; only the locations to be monitored which are outside of the specification limits are shown. The note below the summary box should be in accordance with the applicable Plans Preparation Manual (PPM)/FDOT Design Manual 140. NOTE: The specification limits only apply to 108-1. When 108-2 and/or 108-3 are used, specific location(s) for each must be shown.

SUMMARY OF MONITOR EXISTING STRUCTURES									
SITE NO.	LOCATION	STRUCTURE USAGE	INSPECTION & SETTLEMENT MONITORING		VIBRATION MONITORING		DESIGN NOTES	CONSTRUCTION REMARKS	
			0108 1		0108 2				
	LS				LS				
	P		F	P	F				
1	8660 US HWY 17 S / 142+54.44 LT.	CHURCH	X		X		ROADWAY COMPACTION		
2	7891 US HWY 17 S / 213+40.20 RT.	RADIO STATION	X		X		ROADWAY COMPACTION		
TOTAL:			1		1				

THIS LIST INCLUDES EXISTING STRUCTURES (AS DETERMINED BY THE DEPARTMENT) LOCATED OUTSIDE THE LIMITS SPECIFIED IN ARTICLE 108-2 OF THE FDOT SPECIFICATIONS THAT ARE REQUIRED TO BE MONITORED. THIS LIST SHOULD NOT BE CONSIDERED ALL INCLUSIVE AND DOES NOT CONTAIN EXISTING STRUCTURES TO BE MONITORED THAT ARE LOCATED WITHIN THE DISTANCES SPECIFIED IN ARTICLE 108-2.

The example below is correct for projects where monitoring is required, but all locations are within specification limits. The estimator/reviewer should verify types of monitoring required, per PPM/FDOT Design Manual guidance. For a lump sum project, place an "X" in the appropriate column(s) to indicate required monitoring. NOTE (still applies to LS projects): The specification limits only apply to 108-1. When 108-2 and/or 108-3 are used, specific location(s) for each must be shown.

SUMMARY OF MONITOR EXISTING STRUCTURES						
SITE NO.	LOCATION	STRUCTURE USAGE	INSPECTION & SETTLEMENT MONITORING		DESIGN NOTES	CONSTRUCTION REMARKS
			0108 1			
	LS					
	P		F			
TOTAL:			1			

THIS LIST INCLUDES EXISTING STRUCTURES (AS DETERMINED BY THE DEPARTMENT) LOCATED OUTSIDE THE LIMITS SPECIFIED IN ARTICLE 108-2 OF THE FDOT SPECIFICATIONS THAT ARE REQUIRED TO BE MONITORED. THIS LIST SHOULD NOT BE CONSIDERED ALL INCLUSIVE AND DOES NOT CONTAIN EXISTING STRUCTURES TO BE MONITORED THAT ARE LOCATED WITHIN THE DISTANCES SPECIFIED IN ARTICLE 108-2.

Incorrect:

Do not add/change columns. Place an "X" in the appropriate column(s) for the type of monitoring to be completed. Address goes under the Location. Unused pay item column should be removed.

Do not remove Total rows at the bottom of the summary box. Total should reflect 1LS for each applicable pay item.

SUMMARY OF MONITOR EXISTING STRUCTURES												
SITE NO.	LOCATION		STRUCTURE USAGE	INSPECTION & SETTLEMENT MONITORING		VIBRATION MONITORING		GROUNDWATER MONITORING		DESIGN NOTES	ADDRESS	STRUCTURE TYPE
				0108 1		0108 2		0108 3				
	LS			LS		LS						
	P	F		P	F	P	F					
	1313+50	LEFT	PHARMACY			1				MONITOR DURING ROADWAY COMPACTION	2256 W NINE MILE RD	
	1316+00	RIGHT	PHARMACY			1				MONITOR DURING ROADWAY COMPACTION	2237 W NINE MILE RD	
	1337+50	LEFT	MEDICAL			1				MONITOR DURING ROADWAY COMPACTION	400 MILESTONE BLVD	
	1340+50	LEFT	DENTISTRY			1				MONITOR DURING ROADWAY COMPACTION	35 NEWPORT ST	
	1347+50	LEFT	MEDICAL			1				MONITOR DURING ROADWAY COMPACTION	185 CROSSVILLE ST	
	1350+00	LEFT	ASSISTED LIVING			1				MONITOR DURING ROADWAY COMPACTION	150 CROSSVILLE ST	
	1385+50	RIGHT	CHURCH			1				MONITOR DURING ROADWAY COMPACTION	1251 W NINE MILE RD	
	1388+50	LEFT	CHURCH			1				MONITOR DURING ROADWAY COMPACTION	1144 W NINE MILE RD	
	1394+00	LEFT	CHURCH			1				MONITOR DURING ROADWAY COMPACTION	1101 W NINE MILE RD	
	1416+50	LEFT	VETERINARY CLINIC			1				MONITOR DURING ROADWAY COMPACTION	550 W NINE MILE RD	
	1420+00	RIGHT	RESTAURANT			1				MONITOR DURING DEEP EXCAVATION	535 W NINE MILE RD	
	1422+50	RIGHT	RESTAURANT			1				MONITOR DURING DEEP EXCAVATION	529 W NINE MILE RD	
	1422+50	LEFT	CHIROPRACTOR			1				MONITOR DURING ROADWAY COMPACTION	410 W NINE MILE RD	
	15+50	RIGHT	RESIDENTIAL			1				MONITOR DURING SHEETPILE WALL INSTALL.	9106 UNTREINER AVE	
	15+50	LEFT	RESIDENTIAL			1				MONITOR DURING SHEETPILE WALL INSTALL.	9107 UNTREINER AVE	
	17+50	LEFT	RESIDENTIAL			1				MONITOR DURING SHEETPILE WALL INSTALL.	9111 UNTREINER AVE	
	18+50	RIGHT	RV PARK			1				MONITOR DURING SHEETPILE WALL INSTALL.	9110 UNTREINER AVE	
	20+00	RIGHT	RESIDENTIAL			1				MONITOR DURING SHEETPILE WALL INSTALL.	9112 UNTREINER AVE	
	21+50	RIGHT	RESIDENTIAL			1				MONITOR DURING SHEETPILE WALL INSTALL.	9250 UNTREINER AVE	
	22+00	LEFT	RETAIL			1				MONITOR DURING SHEETPILE WALL INSTALL.	541 W NINE MILE RD	
	23+00	RIGHT	RESIDENTIAL			1				MONITOR DURING SHEETPILE WALL INSTALL.	9270 UNTREINER AVE	
	24+00	RIGHT	RESIDENTIAL			1				MONITOR DURING SHEETPILE WALL INSTALL.	9295 UNTREINER AVE	
	26+00	RIGHT	INDUSTRIAL			1				MONITOR DURING SHEETPILE WALL INSTALL.	9320 UNTREINER AVE	
	27+00	RIGHT	RETAIL SERVICE			1				MONITOR DURING SHEETPILE WALL INSTALL.	301 W NINE MILE RD #1	
	27+50	RIGHT	CHURCH			1				MONITOR DURING SHEETPILE WALL INSTALL.	301 W NINE MILE RD #3	
	28+50	RIGHT	COMMERCIAL			1				MONITOR DURING SHEETPILE WALL INSTALL.	301 W NINE MILE RD # 2	

13. Summary of Clearing and Grubbing & Removal Items

[Instructions](#); [Return to Summary Box List](#)

Correct: Shown below, with 110-4- pay item and old title, prior to July 2017 implementation of new Section 110 specification.

SUMMARY OF REMOVAL ITEMS												
PAY ITEM NO.	PAY ITEM DESCRIPTION	LOCATION STA. TO STA.	SIDE	AREA ID	UNITS	SECONDARY UNITS (IF LUMP SUM)	QUANTITY		TOTAL		DESIGN NOTES	CONSTRUCTION REMARKS
						AREA (AC)	P	F	P	F		
0110 1 1	CLEARING AND GRUBBING	963+61.19 TO 963+61.19	RT	21748	LS	0.810					1.76 TOTAL AC	
		963+80.76 TO 963+80.76	LT	21821		0.950						
0110 4	REMOVAL OF EXISTING CONCRETE PAVEMENT	964+14.59 TO 964+28.34	RT	20703	SY		7.2		269			
		964+70.49 TO 967+09.85	LT	20696			195.9					
		965+23.57 TO 965+93.41	RT	20707				56.8				
		966+73.63 TO 966+84.28	RT	20713				8.7				

Shown below, with 110-4-10 pay item, after July 2017 implementation of new Section 110 specification, with type of concrete to be removed identified in the Design Notes Column. Similar types of concrete may be sorted together, i.e. all sidewalk, all Retaining Walls.

SUMMARY OF CLEARING AND GRUBBING & REMOVAL ITEMS											
PAY ITEM NO.	PAY ITEM DESCRIPTION	LOCATION STA. TO STA.	SIDE	AREA ID	UNITS	QUANTITY		TOTAL		DESIGN NOTES	CONSTRUCTION REMARKS
						P	F	P	F		
0110 4 10	REMOVAL OF EXISTING CONCRETE	700+71.00 TO 703+71.00	RT	19624	SY	134.0		1640		TRAFFIC SEPARATOR	
		701+34.00 TO 705+70.99	LT	19434		291.3				SIDEWALK	
		701+38.50 TO 702+16.58	LT	19634		43.4				GRAVITY WALL	
		703+52.34 TO 708+36.74	RT	19635		233.9				RETAINING WALL	
		705+70.99 TO 712+37.08	RT	18843		421.9				SIDEWALK	
		705+70.99 TO 712+37.08	LT	18838		466.2				SIDEWALK	
		713+25.23 TO 714+35.97	LT	19629		49.2				TRAFFIC SEPARATOR	

Incorrect:

Do not create "custom" summary boxes for Tree Protection or Clearing & Grubbing- Tree Removal.

SUMMARY OF TREE PROTECTION						
LOCATION		TREE CALIPER	QUANTITY		DESIGN NOTES	CONSTRUCTION REMARKS
STATION	SIDE		P	F		
			EA	EA		
218+49.48	LT	8"	1			
219+91.55	RT	9"	1			
221+12.05	LT	12"	1			
231+89.34	LT	14"	1			
232+62.43	LT	24"	1		MULTI TRUNK	
234+42.82	LT	20"	1			
236+17.95	LT	12"	1			
236+66.12	LT	13"	1			
237+28.29	LT	11"	1			
237+72.52	LT	12"	1			
238+17.70	LT	12"	1			
238+62.29	LT	12"	1			
239+13.94	LT	24"	1		MULTI TRUNK	
239+59.50	LT	14"	1			
241+11.71	LT	13"	1			
241+58.12	LT	10"	1			
253+71.78	LT	10"	1			
254+44.06	LT	14"	1			
255+37.07	LT	16"	1			
SUB-TOTAL:			19			

SUMMARY OF TREE PROTECTION (CONTINUED)						
LOCATION		TREE CALIPER	QUANTITY		DESIGN NOTES	CONSTRUCTION REMARKS
STATION	SIDE		P	F		
			EA	EA		
256+19.29	LT	12"	1			
256+76.00	LT	14"	1			
257+27.66	LT	13"	1			
258+30.50	LT	15"	1			
258+66.32	RT	12"	1			
258+84.24	RT	10"	1			
259+02.26	RT	9"	1			
259+03.80	LT	14"	1			
259+20.42	RT	12"	1			
260+73.10	LT	20"	1			
261+09.88	LT	14"	1			
261+47.11	LT	12"	1			
261+83.70	LT	12"	1			
262+22.98	LT	12"	1			
262+85.95	LT	18"	1			
263+04.24	LT	14"	1			
263+43.12	LT	13"	1			
SUB-TOTAL:			17			
FINAL TOTAL:			36			COST OF TREE PROTECTION TO BE INCLUDED UNDER CLEARING AND GRUBBING (110-1-1)

Guardrail Removal belongs on the Summary of Guardrail.

SUMMARY OF REMOVAL ITEMS										
PAY ITEM NO.	PAY ITEM DESCRIPTION	LOCATION		SIDE	UNITS	QUANTITY		TOTAL		CONSTRUCTION REMARKS
		STA. TO STA.				P	F	P	F	
0536 73	GUARDRAIL REMOVAL	1425+32.01 R2 to 1426+67.99 R2		RT	LF	148.0		392		
		1425+67.65 R2 to 1427+30.09 R2		LT		164.0				
		1446+30.99 R3 to 1446+69.54 R3		RT		80.0				

14. Summary of Mailboxes

[Instructions](#); [Return to Summary Box List](#)

Correct:

SUMMARY OF MAILBOXES					
STATION	SIDE	QUANTITY		DESIGN NOTES	CONSTRUCTION REMARKS
		0110	7 J		
		P	F		
108+11.51	LT.	1			
109+78.56	LT.	1			
154+13.18	RT.	1			
155+42.04	RT.	1			
155+46.49	RT.	1			
184+45.26	LT.	1			
256+66.95	RT.	1			
256+67.26	RT.	1			
256+67.99	RT.	1			
256+68.14	RT.	1			
256+68.64	RT.	1			
256+69.20	RT.	1			
256+70.17	RT.	1			
294+31.30	RT.	1			
SUB-TOTAL		14			
TOTAL		14			

Incorrect:

15. Summary of Earthwork

[Instructions](#); [Return to Summary Box List](#)

Correct: Use description field to separate locations. Street names, ramp identification, and or station limits may be used as shown, or within the Design Notes column. Remember to include note below summary box, per PPM/FDM instructions. While this example is correct, the Design Notes column could have been used to identify the street/ramp name.

SUMMARY OF EARTHWORK				
PAY ITEM NO.	PAY ITEM DESCRIPTION	CY		CONSTRUCTION REMARKS
		P	F	
0120- 1-	REGULAR EXCAVATION			
	MAINLINE (SR 45A) STA. 1401+79.59 TO 1461+87.37	25545.00		
	MAINLINE (SR 45A) STA. 1462+50.00 TO 1468+60.00 (FOR MEDIAN N OF BIRD BAY)	343.00		
	GROVELAND AVE.	175.00		
	LAUREL AVE.	27.00		
	CYPRESS AVE.	299.00		
	VENICE AVE.	42.00		
	RIDGEWOOD AVE	37.00		
	SNF C	6780.00		
	SNF D	10031.00		
	TOTAL REGULAR EXCAVATION	43279.00		
0120- 6-	EMBANKMENT			
	MAINLINE (SR 45A) STA. 1401+79.59 TO 1461+87.37	12014.00		
	GROVELAND AVE.	28.00		
	LAUREL AVE.	1.00		
	CYPRESS AVE.	0.00		
	VENICE AVE.	34.00		
	RIDGEWOOD AVE	4.00		
	SNF C	3652.00		
	SNF D	5181.00		
	TOTAL EMBANKMENT	20914.00		

Incorrect: Quantities were not separated by location. An additional “Total” column was added.

SUMMARY OF EARTHWORK							
PAY ITEM NO.	PAY ITEM DESCRIPTION	QUANTITY (CY)		TOTAL (CY)		DESIGN NOTES	CONSTRUCTION REMARKS
		P	F	P	F		
0120 1	REGULAR EXCAVATION			572.00			
						12TH AVENUE	
0120 6	EMBANKMENT			4463.00			
						12TH AVENUE	

*Earthwork has been calculated using the Limerock base option.
If another option is constructed, there shall be no revision to the earthwork quantities for which payment is made by Plan Quantity.*

Do NOT create supplemental summary boxes to define the work.

SUMMARY OF EARTHWORK				
STREET NAME		DESCRIPTION	CY	
			P	F
MAINLINE NW 7TH Avenue	EXCAVATION	68+60.00 TO 110+70.00 (SEE CROSS SECTIONS)	28439	
	EMBANKMENT	68+60.00 TO 110+70.00 (SEE CROSS SECTIONS)	239	
SUBTOTAL (NW 9th Street)	EXCAVATION	8+86.00 TO 9+75.00 (SEE CROSS SECTIONS)	152	
	EMBANKMENT	8+86.00 TO 9+75.00 (SEE CROSS SECTIONS)	0	
SUBTOTAL (NW 10th Street)	EXCAVATION	9+10.00 TO 10+85.00 (SEE CROSS SECTIONS)	228	
	EMBANKMENT	9+10.00 TO 10+85.00 (SEE CROSS SECTIONS)	5	
SUBTOTAL (NW 11th Street)	EXCAVATION	8+65.00 TO 9+75.00 (SEE CROSS SECTIONS)	126	
	EMBANKMENT	8+65.00 TO 9+75.00 (SEE CROSS SECTIONS)	0	
SUBTOTAL (NW 11th Street) E	EXCAVATION	10+25.00 TO 11+45.78 (SEE CROSS SECTIONS)	294	
	EMBANKMENT	10+25.00 TO 11+45.78 (SEE CROSS SECTIONS)	0	
SUBTOTAL (NW 12th Street) W	EXCAVATION	8+95.00 TO 9+74.97 (SEE CROSS SECTIONS)	120	
	EMBANKMENT	8+95.00 TO 9+74.97 (SEE CROSS SECTIONS)	0	
SUBTOTAL (NW 13th Street) W	EXCAVATION	9+24.00 TO 9+75.00 (SEE CROSS SECTIONS)	95	
	EMBANKMENT	9+24.00 TO 9+75.00 (SEE CROSS SECTIONS)	0	
SUBTOTAL (NW 13th Street) E	EXCAVATION	10+25.00 TO 11+00.00 (SEE CROSS SECTIONS)	136	
	EMBANKMENT	10+25.00 TO 11+00.00 (SEE CROSS SECTIONS)	0	
SUBTOTAL (NW 14th Street) W	EXCAVATION	9+01.00 TO 9+75.39 (SEE CROSS SECTIONS)	91	
	EMBANKMENT	9+01.00 TO 9+75.39 (SEE CROSS SECTIONS)	7	
SUBTOTAL (NW 14th Street) E	EXCAVATION	10+25.45 TO 10+93.00 (SEE CROSS SECTIONS)	232	
	EMBANKMENT	10+25.45 TO 10+93.00 (SEE CROSS SECTIONS)	0	
SUBTOTAL (NW 15th Street) W	EXCAVATION	8+00.00 TO 9+75.15 (SEE CROSS SECTIONS)	156	
	EMBANKMENT	8+00.00 TO 9+75.15 (SEE CROSS SECTIONS)	0	
SUBTOTAL (NW 15th Street) E	EXCAVATION	10+24.98 TO 10+85.00 (SEE CROSS SECTIONS)	144	
	EMBANKMENT	10+24.98 TO 10+85.00 (SEE CROSS SECTIONS)	0	
		SUBTOTAL EXCAVATION	2803	
		SUBTOTAL EMBANKMENT	251	

16. Summary of Geotechnical Items

[Instructions](#); [Return to Summary Box List](#)

Correct:

Incorrect: Missing AREA ID column. No width information provided to verify area quantity.

SUMMARY OF GEOTECHNICAL ITEMS											
PAY ITEM NO.	PAY ITEM DESCRIPTION	LOCATION		SIDE	UNIT	QUANTITY		TOTAL		DESIGN NOTES	CONSTRUCTION REMARKS
		STA.	TO STA.			P	F	P	F		
0145 2	GEOSYNTHETIC REINFORCED FOUNDATION OVER SOFT SOIL	83+36.00	to 91+20.00	LT	SY	2367		2367			

17. Summary of Turnouts

[Instructions](#); [Return to Summary Box List](#)

Correct:

Incorrect:

18. Summary of Pavement

[Instructions](#); [Return to Summary Box List](#)

Correct:

The street name, ramp designation, “northbound mainline”, or “median”, etc. may be added to the location description column, to provide additional clarity.

Requested: Need a correct example that includes overbuild, with detailed quantity calculations. Need an example that includes driveway(s).

SUMMARY OF PAVEMENT												
PAY ITEM NO.	PAY ITEM DESCRIPTION	LOCATION		SIDE	AREA ID	UNIT	QUANTITY		TOTAL		DESIGN NOTES	CONSTRUCTION REMARKS
		STA. TO STA.	DESCRIPTION				P	F	P	F		
0260 4	TYPE B STABILIZATION	60+41.48 to 66+99.00		LT/RT	35797	SY	3489.10		8988.0			
		66+99.00 to 67+13.25		LT/RT	35843		113.50					
		68+30.75 to 68+45.00		LT/RT	35830		113.30					
		68+44.96 to 72+61.48		LT/RT	35821		3281.20					
285206	OPTIONAL BASE, BASE GROUP 06	60+41.48 to 66+99.00		LT/RT	35918	SY	5127.80		8414.0			
		66+99.00 to 67+13.25		LT/RT	35911		113.50					
		68+30.75 to 68+45.00		LT/RT	35906		113.30					
		68+45.00 to 72+61.48		LT/RT	35937		3069.20					
0327 7D 1	WILLING EXIST ASPH PAVT, 1" AVG DEPTH	56+17.45 to 60+41.48		LT/RT	7169	SY	2992.80		6400.0			
		72+61.48 to 77+49.38		LT/RT	30464		3407.00					
0334 1 22	SUPERPAVE ASPHALTIC CONCRETE (TRAFFIC B, PG 76-22, PMA)	60+41.48 to 66+99.00		LT/RT	36039	TN	844.44		1379.1			
		66+99.00 to 67+12.04		LT/RT	40823		7.07					
		66+99.00 to 67+12.04		LT	40817		7.07					
		68+31.06 to 68+45.00		RT	41532		7.03					
		68+31.06 to 68+45.00		LT	41528		7.03					
		68+45.00 to 72+61.48		LT/RT	36036		506.42					
0337 7 40	ASPHALTIC CONCRETE FRICTION COURSE (TRAFFIC B, FC 3-5, PG 76-22, PMA)	56+17.45 to 60+41.48		LT/RT	36128	TN	164.61		811.7			
		60+41.48 to 66+99.00		LT/RT	36063		281.48					
		66+99.00 to 67+12.04		LT	40880		2.36					
		66+99.00 to 67+12.04		RT	40873		2.36					
		68+31.06 to 68+45.00		RT	41561		2.33					
		68+31.06 to 68+45.00		LT	41552		2.33					
		68+45.00 to 72+61.48		LT/RT	36080		168.81					
		72+61.48 to 77+49.38		LT/RT	36089		187.39					

SUMMARY OF PAVEMENT													
PAY ITEM NO.	PAY ITEM DESCRIPTION	LOCATION		SIDE	AREA ID	UNIT	QUANTITY		TOTAL		CONSTRUCTION REMARKS		
		STA. TO STA.	DESCRIPTION				P	F	P	F			
0334 1 16	MILLING EXIST ASPH PAVT., 1/2" AVG DEPTH	138+22.48 R 2 TO 150+90.15 R 2	RAMP B OUTER SHOULDER	LT	40903	SY	1625.8		8329				
		138+24.79 R 2 TO 151+10.81 R 2	RAMP B INNER SHOULDER	LT	40904		397.0						
		138+55.26 R 2 TO 151+18.03 R 2	RAMP A OUTER SHOULDER	RT	40908		1573.0						
		138+58.34 R 2 TO 151+27.21 R 2	RAMP A INNER SHOULDER	RT	40907		352.2						
		151+88.35 R 2 TO 164+36.60 R 2	RAMP C INNER SHOULDER	LT	40905		490.0						
		152+04.09 R 2 TO 165+54.22 R 2	RAMP D INNER SHOULDER	RT	40910		520.8						
		152+24.95 R 2 TO 164+39.53 R 2	RAMP C OUTER SHOULDER	LT	40906		1662.3						
		152+51.23 R 2 TO 165+55.60 R 2	RAMP D OUTER SHOULDER	RT	40909		1707.7						
		0334 1 12	SUPERPAVE ASPH CONC. TRAFFIC B	99+99.41 R 2 TO 132+56.66 R 2	OUTSIDE SHOULDERS OF MAIN TRAVEL LANES	RT	41133	TN	276.44		4514.0		
				99+99.41 R 2 TO 128+16.69 R 2		LT	41169		226.24				
128+16.67 R 2 TO 138+23.25 R 2	LT			41137			74.35						
132+55.69 R 2 TO 138+56.49 R 2	RT			41142			52.64						
138+24.79 R 2 TO 150+25.61 R 2	LT			41341			92.13						
138+58.32 R 2 TO 150+28.02 R 2	RT			41347			106.07						
152+68.22 R 2 TO 164+40.58 R 2	LT			41404			86.12						
152+70.73 R 2 TO 165+54.44 R 2	RT			41376			88.64						
164+38.58 R 2 TO 214+01.25 R 2	LT			41319			404.33						
165+55.12 R 2 TO 214+21.15 R 2	RT			41146			413.65						
218+56.05 R 2 TO 364+18.77 R 3	LT			41153			1266.00						
219+30.79 R 2 TO 364+18.80 R 3	RT			41162			1227.3						
99+99.41 R 2 TO 364+18.80 R 3	EB OVERBUILD			RT			60.5						
99+99.41 R 2 TO 364+18.80 R 3	WB OVERBUILD			LT			139.6						
0334 1 22	SUPERPAVE ASPH CONC. TRAFFIC B, PG76-22, PMA	322+44.93 R 3 TO 325+59.59 R 3	PERMANENT CROSSOVER	LT/RT	52755	TN	53.00		53.0				
0334 1 23	SUPERPAVE ASPH CONC. TRAFFIC C, PG76-22, PMA	138+23.48 R 2 TO 151+08.86 R 2	RAMP B TRAVEL LANE	LT	42698	TN	253.53		1070.4				
		138+56.49 R 2 TO 151+36.99 R 2	RAMP A TRAVEL LANE	RT	42712		273.41						
		151+87.95 R 2 TO 164+38.39 R 2	RAMP C TRAVEL LANE	LT	42723		273.18						
		152+05.81 R 2 TO 165+55.00 R 2	RAMP D TRAVEL LANE	RT	42688		270.27						
0334 1 34	SUPERPAVE ASPH CONC. TRAFFIC D, PG82-22, PMA	99+99.41 R 2 TO 150+28.92 R 2	INSIDE SHOULDERS OF MAIN TRAVEL LANES	RT	46488	TN	204.70		1803.8				
		99+99.41 R 2 TO 150+25.63 R 2		LT	46521		166.80						
		152+68.43 R 2 TO 214+21.21 R 2		LT	46496		238.90						
		152+70.27 R 2 TO 214+21.11 R 2		RT	46502		223.70						
		218+55.80 R 2 TO 364+18.78 R 2		LT	46509		491.70						
		219+30.92 R 2 TO 364+18.80 R 2		RT	46516		478.00						
0334 1 34	SUPERPAVE ASPH CONC. TRAFFIC D, PG82-22, PMA	99+99.41 R 2 TO 150+28.74 R 2	MAIN TRAVEL LANES	RT	43530	TN	1754.40		17323.4				
		99+99.41 R 2 TO 150+25.62 R 2		LT	43543		1811.50						
		152+68.39 R 2 TO 214+01.26 R 2		LT	43557		2069.70						
		152+70.37 R 2 TO 214+21.07 R 2		RT	43522		2196.20						
		218+55.82 R 2 TO 364+18.78 R 2		LT	43483		4607.40						
		219+30.82 R 2 TO 364+18.80 R 2		RT	43488		4625.00						
		99+99.41 R 2 TO 364+18.80 R 3		EB OVERBUILD	RT		119.6						
		99+99.41 R 2 TO 364+18.80 R 3		WB OVERBUILD	LT		139.6						

Incorrect:

Do not add columns (Volume in this example). Do not create a separate summary box. Keep the 334 quantities together and notate the quantity as Overbuild in the Design Notes column.

SUMMARY OF PAVEMENT (OVERBUILD)												
PAY ITEM NO.	PAY ITEM DESCRIPTION	LOCATION		AREA	VOLUME	UNIT	QUANTITY		TOTAL		DESIGN NOTES	CONSTRUCTION REMARKS
		STA. TO STA.	DESCRIPTION				P	F	P	F		
334-1-13	SUPERPAVE ASPHALTIC CONC. TRAFFIC C. (OVERBUILD)	85+00.00		0.46		TN			*		*326.2 TN INCLUDED IN	
		85+50.00		1.46	47.9		4				SUMMARY OF PAVEMENT	
		86+00.00		2.18	90.9		7				0334 1 13	
		86+50.00		2.48	116.4		9					
		87+00.00		2.80	132.0		10					
		87+50.00		3.55	158.8		12					
		88+00.00			88.7		7					
		92+40.00		7.14								
		92+50.00		7.14	71.4		5					
		93+00.00		7.14	178.4		13					
		93+00.00		33.37								
		93+33.00		33.37	1101.2		81					
		93+33.00		17.24								
		93+50.00		17.24	293.0		21					
		94+00.00		4.46	542.5		40					
		101+00.00		12.61								
		101+50.00		7.48	502.3		37					
		102+00.00		9.16	416.0		31					
		102+50.00		4.66	345.5		25					
		103+00.00		3.91	214.1		16					
		103+50.00		1.38	132.2		10					
		103+74.48			16.9		1					

19. Summary of Miscellaneous Asphalt Pavement

[Instructions](#); [Return to Summary Box List](#)

Correct:

SUMMARY OF MISCELLANEOUS ASPHALT PAVEMENT									
LOCATION STA. TO STA.	SIDE	AREA ID	LENGTH	WIDTH	THICK (IN)	MEDIAN PAVEMENT (TN)		DESIGN NOTES	CONSTRUCTION REMARKS
						0339 I			
						P	F		
1450+72.58 R3 to 1450+79.81 R3	LT	146055			2	0.24			
1452+13.26 R3 to 1452+18.26 R3	RT	120216			2	0.44			
1455+98.24 R3 to 1456+05.77 R3	LT	120210			2	0.32			
1456+28.91 R3 to 1456+36.20 R3	RT	120205			2	0.24			
1461+69.67 R3 to 1461+77.00 R3	LT	120200			2	0.35			
1462+59.20 R3 to 1462+65.03 R3	LT/RT	120195			2	0.44			
SUB-TOTAL:						2.0			
TOTAL:						2.0			

Incorrect:

Location information (including the Area ID or length/width of quantified area) shall be included in the summary box. There should not be a reference to the plans for the information.

SUMMARY OF MISCELLANEOUS ASPHALT PAVEMENT						
LOCATION STA. TO STA.	SIDE	THICK (IN)	UNDER GUARDRAIL		DESIGN NOTES	CONSTRUCTION REMARKS
			0339 I (TN)			
			P	F		
92+20.66 TO 96+78.16	LT	2	7.62		**	
92+85.29 TO 94+24.51	RT	2	3.69		**	
94+70.70 TO 96+90.70	RT	2	3.66		**	
SUB-TOTAL:			14.97			
TOTAL:			14.97			

** NOTE: REFER TO PLANS FOR MISCELLANEOUS ASPHALT PAVEMENT WIDTH.

20. Summary of Structure Quantities, Bridge XXXXXX

[Instructions](#); [Return to Summary Box List](#)

Correct:

Incorrect:

21. Summary of Box Culverts

[Instructions](#); [Return to Summary Box List](#)

Correct: This summary box is normally used for box culverts less than 20'. Box Culverts over 20' are defined as bridge culverts, and should use the Summary of Structure Quantities, along with the Bridge number.

SUMMARY OF BOX CULVERTS									
PAY ITEM NO.	PAY ITEM DESCRIPTION	LOCATION	UNIT	QUANTITY		TOTAL		DESIGN NOTES	CONSTRUCTION REMARKS
		STATION		P	F	P	F		
0400 4 1	CONCRETE CLASS IV, CULVERTS	1426+00.00 R2	CY	459.00		491.2		SEE BOX CULVERT DATA SHEETS	
		1448+00.00 R3		32.20				SEE BOX CULVERT DATA SHEETS	
0415 1 1	REINF STEEL-ROADWAY	1426+00.00 R2	LB	127250.89		135637.1		SEE BOX CULVERT DATA SHEETS	
		1448+00.00 R3		8386.22				SEE BOX CULVERT DATA SHEETS	

Incorrect:

22. Summary of Walls

[Instructions](#); [Return to Summary Box List](#)

Correct:

Requested: Need a correct example with Wall No. column.

SUMMARY OF WALLS											
PAY ITEM NO.	PAY ITEM DESCRIPTION	LOCATION		SIDE	UNIT	QUANTITY		TOTAL		DESIGN NOTES	CONSTRUCTION REMARKS
		STA.	TO STA.			P	F	P	F		
0400 0 11	CONCRETE CLASS NS, GRAVITY WALL	63+75.00	- 65+38.99	RT	CY	80.5		175.5		5.5' AVG. HEIGHT	
		65+44.65	- 65+88.50	RT		26.2				5.5' AVG. HEIGHT	
		65+93.83	- 68+78.00	RT		31.1				5.5' AVG. HEIGHT	
		69+02.00	- 70+00.00	LT		21.8				4.0' AVG. HEIGHT	
		88+45.00	- 89+90.00	RT		45.9				5.0' AVG. HEIGHT	

Incorrect:

Do NOT rename the summary box.

SUMMARY OF RETAINING WALL											
WALL NO.	PAY ITEM NO.	PAY ITEM DESCRIPTION	LOCATION		SIDE	UNIT	QUANTITY		TOTAL		CONSTRUCTION REMARKS
			STA.	TO STA.			P	F	P	F	
1	0400 4 11	CONCRETE CLASS IV, RETAINING WALLS	1412+98.62	1418+10.78	LT	CY	281.5		282		
	0415 1 3	REINFORCING STEEL - RETAINING WALL	1412+98.62	1418+10.78	LT	LB	25722.0		25722		

23. Summary of Utility Adjustments

[Instructions](#); [Return to Summary Box List](#)

Correct:

Quantities separated for each included project.

Note: Total column formatting could remain without merged cells, with the total shown at the top. When cells are merged, use top justification, so the total remains at the top of the cell.

SUMMARY OF UTILITY ADJUSTMENTS										
PAY ITEM NO.	PAY ITEM DESCRIPTION	LOCATION STATION	SIDE	UNIT	QUANTITY		TOTAL (EA)		DESIGN NOTES	CONSTRUCTION REMARKS
					P	F	P	F		
0425-5	ADJUST FOOT MANHOLES	74+52.54	RT	EA	1.0				Baseline Survey SA 953	
		75+73.35	RT	EA	1.0				Baseline Survey SA 953	
		77+49.35	RT	EA	1.0				Baseline Survey SA 953	
		93+17.35	LT	EA	1.0				Baseline Survey SA 953	
		93+65.93	LT	EA	1.0				Baseline Survey SA 953	
		95+57.08	LT	EA	1.0				Baseline Survey SA 953	
		96+58.22	LT	EA	1.0				Baseline Survey SA 953	
		98+89.99	LT	EA	1.0				Baseline Survey SA 953	
		18+20.80	LT	EA	1.0				Baseline Survey Alhambra Circle	
		18+47.20	LT	EA	1.0				Baseline Survey Alhambra Circle	
								10		

SUMMARY OF UTILITY ADJUSTMENTS										
PAY ITEM NO.	PAY ITEM DESCRIPTION	LOCATION STATION	SIDE	UNIT	QUANTITY		TOTAL (EA)		DESIGN NOTES	CONSTRUCTION REMARKS
					P	F	P	F		
0425-6	START SIDE WATER VALVE ADJUSTMENTS*	94+22.72	LT	EA	1.0				Baseline Survey SA 953	
		94+25.24	LT	EA	1.0				Baseline Survey SA 953	
		94+31.72	LT	EA	1.0				Baseline Survey SA 953	
		94+77.59	LT	EA	1.0				Baseline Survey SA 953	
		94+75.90	LT	EA	1.0				Baseline Survey SA 953	
		14+57.20	LT	EA	1.0				Baseline Survey Alhambra Circle	
		14+76.40	LT	EA	1.0				Baseline Survey Alhambra Circle	
		14+78.20	LT	EA	1.0				Baseline Survey Alhambra Circle	
		13+92.20	LT	EA	1.0				Baseline Survey Alhambra Circle	
		14+53.40	LT	EA	1.0				Baseline Survey Alhambra Circle	
		14+53.94	LT	EA	1.0				Baseline Survey Alhambra Circle	
								10		

Incorrect:

Do not include offset information with location/station.

SUMMARY OF UTILITY ADJUSTMENTS										
PAY ITEM NO.	PAY ITEM DESCRIPTION	LOCATION	SIDE	UNIT	QUANTITY		TOTAL		DESIGN NOTES	CONSTRUCTION REMARKS
		STATION			P	F	P	F		
0425-5-	MANHOLES, ADJUST	9+41.59 (10.17' RT)	RT	EA	1.0		1.0		NW 14TH ST	
		66+69.60 (22.69' LT)	RT	EA	1.0		1.0		NW 7TH AVE	
		66+70.81 (9.47' RT)	RT	EA	1.0		1.0		NW 7TH AVE	
		67+29.17 (22.83' RT)	RT	EA	1.0		1.0		NW 7TH AVE	
		67+62.10 (8.82' LT)	RT	EA	1.0		1.0		NW 7TH AVE	
							5.0			

24. Summary of Side dDrain and Mitered End Sections

[Instructions](#); [Return to Summary Box List](#)

Correct:

SUMMARY OF SIDE DRAIN & MITERED END SECTIONS									
LOCATION STA. TO STA.	SIDE	PIPE LENGTH - LF			MES - EA			DESIGN NOTES	CONSTRUCTION REMARKS
		ROUND			ROUND				
		18"	24"	30"	18"	24"	30"		
169+30.00 to 169+30.00	RT	171.0			1			INDRIO	
301+70.00 to 301+70.00	LT		68.0			1		INDRIO	
304+49.97 to 304+49.97	LT	43.0			1			INDRIO	
304+92.32 to 304+92.32	LT				1			INDRIO	
316+30.00 to 316+30.00	RT			139.0			1	JOHNSTON	
SUB-TOTAL:		214.0	68.0	139.0	3	1	1		
TOTAL:		214	68	139	3	1	1		

Incorrect:

Sod column should not be added to this summary box. Use Summary of Performance Turf

SUMMARY OF SIDE DRAIN & MITERED END SECTIONS										
LOCATION		PIPE LENGTH - LF				MES - EA		PERF. TURF (SOD) SY	DESIGN NOTES	CONSTRUCTION REMARKS
STA. TO STA.	SIDE	BACK		AHEAD		ROUND				
		OFFSET	£	OFFSET	£	18"	24"	18"	24"	
128+91.16 to 129+31.67	RT	60.45	202.00	59.75	201.50	22.0		2		18
131+29.95 to 132+09.37	RT	59.49	199.60	59.42	199.40		57.0	2		20
135+85.16 to 136+69.46	RT	59.50	198.40	59.11	197.90		62.0	2		20
139+22.73 to 140+24.88	RT	61.26	197.60	60.34	197.40		80.0	2		20
235+67.20 to 236+24.37	RT	71.40	146.90	68.68	145.80		35.0	2		20
264+87.75 to 266+67.27	RT	73.73	138.60	72.54	139.60	162.0		2		18
SUB-TOTAL:						164.0	234.0	4	8	116
TOTAL:						184	234	4	8	116

25. Summary of Miscellaneous Drainage Items

[Instructions](#); [Return to Summary Box List](#)

Correct:

Incorrect:

Do NOT repeat the pay item number, description, unit, or total. These should only be on the FIRST row where the pay item is list in the summary box. The total should include the accumulated total for all of the values in the Quantity column and shown only on the FIRST row where the pay item is list in the summary box.

SUMMARY OF MISCELLANEOUS DRAINAGE ITEMS								
PAY ITEM NO.	PAY ITEM DESCRIPTION	LOCATION	SIDE	UNIT	QUANTITY	TOTAL		CONSTRUCTION REMARKS
		STA. TO STA.				P	F	
425-10	YARD DRAINS	1409+75.00 R2	RT	EA	1.0	1		
425-10	YARD DRAINS	1411+65.00 R2	RT	EA	1.0	1		
425-10	YARD DRAINS	1414+54.00 R2	RT	EA	1.0	1		
425-10	YARD DRAINS	1416+80.00 R2	RT	EA	1.0	1		
430-175-115	PIPE CULVERT OPT MAT, ROUND, 15", S/CD	1409+77.00 R2 to 1411+01.25 R2	RT	LF	150.0	150		
430-175-115	PIPE CULVERT OPT MAT, ROUND, 15", S/CD	1411+35.06 R2 to 1411+64.00 R2	RT	LF	50.0	50		
430-175-115	PIPE CULVERT OPT MAT, ROUND, 15", S/CD	1414+55.00 R2 to 1414+72.36 R2	RT	LF	37.0	37		
430-175-115	PIPE CULVERT OPT MAT, ROUND, 15", S/CD	1415+05.98 R2 to 1416+78.00 R2	RT	LF	192.0	192		

Do NOT change the name or create a new summary box. Desilting quantity should be included on the Summary of Miscellaneous Drainage Items, Summary of Box Culverts, or on the Summary of Drainage Structures Sheets.

SUMMARY OF DESILTING									
PAY ITEM NO.	PAY ITEM DESCRIPTION	SIDE	UNIT	QUANTITY		TOTAL		DESIGN NOTES	CONSTRUCTION REMARKS
				P	F	P	F		
0430 950	DESILTING CONCRETE BOX CULVERT	LT/RT	CY	145.8		198		TRIPLE CULVERT @ STA. 1426+10	
		LT/RT		52.6				DOUBLE CULVERT @ STA. 1447+95	

Do not include the Summary of Drainage Structures on the Summary of Quantity sheets. They belong on their own sheets. If there is only minor work, use the Summary of Miscellaneous Drainage Items.

SUMMARY OF DRAINAGE STRUCTURES											
QUANTITY	STR. NO.	STATION	SIDE	DESCRIPTION	CURB INLET	GUTTER INLET	MANHOLE	PIPE CULVERT	FRENCH DRAIN	DESIGN NOTES	CONSTRUCTION REMARKS
					Type 9 < 10'	Type S < 10'	Type P-7 < 10'	18"	24" FD		
					425 12 01(EA)	425 17 01 (EA)	425 2 41 (EA)	430 174 118 (LF)	443 70 4 (LF)		
P	S-1	12+45.55	RT	INLET, FD	1				50	Provide Type II Skimmer	
F											
P	S-2	14+54.53	LT	INLET, PIPE		1		16		See Drainage Details	
F											
P	S-3	14+54.53	LT	MANHOLE, FD			1		70	Provide Type II Skimmer	
F											
P	S-4	14+90.58	LT	INLET, PIPE	1			33			
F											
TOTAL	P				2	1	1	49	120		
	F										

This quantity should be included on the Summary of Miscellaneous Drainage Items, Summary of Side Drain and Mitered End Sections, or on the Summary of Drainage Structures Sheets.

SUMMARY OF PIPE FILLING & PLUGGING				
LOCATION	SIDE	PIPE FILLING & PLUGGING PLACE OUT OF SERVICE		DESIGN NOTES
		0430 830		
STA.		CY		
		P	F	
1422+80 +/-	RT	4.71		SEE PLAN SHEET FOR MORE INFORMATION
1426+30 +/-	RT	1.86		SEE PLAN SHEET FOR MORE INFORMATION
SUB-TOTAL:		6.57		
PLAN TOTAL:		6.57		

26. Summary of Trench Drain

[Instructions](#); [Return to Summary Box List](#)

Correct:

Note: This box is correct; however, there is a newer version of the Summary Box template available.

SUMMARY OF TRENCH DRAIN			
LOCATION	SIDE	TRENCH DRAIN (STANDARD)	CONSTRUCTION REMARKS
STA. TO STA.		0436 1 1 LF	
1424+03.12 R2 to 1425+61.43 R2	RT	159.0	
1431+19.43 R3 to 1431+29.43 R3	LT	10.0	
1432+22.42 R3 to 1432+32.42 R3	LT	10.0	
1443+78.16 R3 to 1443+88.16 R3	LT	10.0	
SUB-TOTAL:		189.0	
PLAN TOTAL:		189	
FINAL TOTAL:			

Incorrect:

27. Summary of Underdrain

[Instructions](#); [Return to Summary Box List](#)

Correct:

SUMMARY OF UNDERDRAIN										
LOCATION		SIDE	UNDERDRAIN TYPE II		UNDERDRAIN TYPE V		OUTLET PIPE		DESIGN NOTES	CONSTRUCTION REMARKS
STA. TO STA.			0440	1 20	0440	1 50	0440 73 1			
			(LF)		(LF)		4" (LF)			
		P	F	P	F	P	F			
1161+31.49 TO 1162+24.95	LT	74.0							RAMP B1	
1162+27.53 TO 1164+48.47	LT	222.3							RAMP B1	
1164+51.53 TO 1165+29.01	LT	78.0							RAMP B1	
1165+30.99 TO 1167+78.00	LT	248.5							RAMP B1	
1167+78.00 TO 1170+22.31	LT	245.8							RAMP B1	
1170+35.79 TO 1171+97.97	LT	163.0							RAMP B1	
1172+02.03 TO 1173+50.00	LT	148.7							RAMP B1	
1173+50.00 TO 1174+97.97	LT	148.7							RAMP B1	
1175+02.03 TO 1175+75.00	LT	73.3							RAMP B1	
1175+75.00 TO 1176+47.97	LT	73.3							RAMP B1	
1176+52.03 TO 1177+99.32	LT	148.0							RAMP B1	
1179+28.07 TO 1179+47.97	LT	20.0							RAMP B1	
1181+58.29 TO 1181+78.25	LT	20.0							RAMP B1	
1183+62.13 TO 1183+82.13	LT	20.0							RAMP B1	
1183+85.63 TO 1184+05.63	LT	20.0							RAMP B1	
1194+26.99 TO 1194+76.71	LT			50.0					RAMP B1	
1375+83.93 TO 1376+97.73	RT			230.0					RAMP D	
1745+60.38 TO 1747+84.71	RT			225.0					BL 175	
1748+13.81 TO 1750+38.14	RT			225.0					BL 175	
1756+14.65 TO 1756+83.18	RT			70.3					BL 175	
1758+01.30 TO 1758+49.02	RT			48.9					BL 175	
1758+49.02 TO 1759+29.15	RT			82.2					BL 175	
1762+99.94 TO 1764+74.99	RT			185.0					BL 175	
1764+99.99 TO 1766+50.00	RT			160.0					BL 175	
1766+50.00 TO 1767+99.97	RT			150.0					BL 175	
1194+76.71 TO 1194+86.09	LT					15.6			RAMP B1	
1376+97.73 TO 1377+68.93	RT					70.0			RAMP D	
1747+84.71 TO 1747+99.41	RT					20.8			BL 175	
1747+99.41 TO 1748+13.81	RT					20.5			BL 175	
1756+83.18 TO 1756+95.50	RT					12.7			BL 175	
1764+20.09 TO 1764+20.23	RT					35.0			BL 175	
1766+78.10 TO 1766+78.23	RT					34.5			BL 175	
SUB-TOTAL		1703.6		1426.4		209.1				
TOTAL		1704		1427		210				

Incorrect:

Remove unused/blank columns.

SUMMARY OF UNDERDRAIN										
LOCATION		SIDE					OUTLET PIPE		DESIGN NOTES	CONSTRUCTION REMARKS
STA. TO STA.							0440 73 1			
							6" (LF)			
		P	F	P	F	P	F			
118+90.36	RT							1.25		
119+20.35	RT							1.25		
SUB-TOTAL								2.50		
TOTAL								2.50		

28. Summary of French Drain

[Instructions](#); [Return to Summary Box List](#)

Correct:

Incorrect:

29. Summary of Edgedrain

[Instructions](#); [Return to Summary Box List](#)

Correct:

SUMMARY OF EDGEDRAIN							
LOCATION	SIDE	EDGEDRAIN		OUTLET PIPE LENGTH		DESIGN NOTES	CONSTRUCTION REMARKS
		0446	1 1	0446	71 1		
STA. TO STA.		4" (LF)		4" (LF)			
		P	F	P	F		
1762+00.00 to 1767+00.00	RT	500.0					
1767+00.00 to 1772+00.00	RT	500.0					
1772+00.00 to 1775+00.00	RT	300.0					
1775+18.00 to 1780+00.00	RT	482.0					
1780+00.00 to 1783+00.00	RT	300.0					
1783+00.00 to 1788+00.00	RT	500.0					
1788+00.00 to 1793+00.00	RT	500.0					
1793+00.00 to 1797+46.00	RT	446.0					
1767+00.00 to 1767+08.50	RT			26.7			
1772+00.00 to 1772+08.50	RT			31.6			
1775+00.00 to 1775+08.50	RT			30.7			
1775+09.50 to 1775+18.00	RT			30.7			
1779+91.50 to 1780+00.00	RT			24.0			
1782+91.50 to 1783+00.00	RT			23.5			
1787+91.50 to 1788+00.00	RT			30.0			
1792+95.08 to 1793+00.00	RT			22.1			
	SUB-TOTAL:	3528.0		219.3			
	TOTAL:	3528		220			

Incorrect:

30. Summary of Railing

[Instructions](#); [Return to Summary Box List](#)

Correct:

SUMMARY OF RAILING				
LOCATION	SIDE	PED/BICYCLE RAILING (ALUMINUM ONLY) (42" TYPE 1)		CONSTRUCTION REMARKS
		0515	2311	
STA. TO STA.		LF		
		P	F	
1424+10.00 R2 to 1426+67.58 R2	LT	259.7		
1425+58.56 R2 to 1426+34.87 R2	RT	76.4		
1447+55.60 R3 to 1447+96.93 R3	RT	42.9		
1447+97.37 R3 to 1448+41.04 R3	LT	42.0		
SUB-TOTAL:		421.0		
PLAN TOTAL:		421		

Incorrect:

31. Summary of Permanent Barrier, formerly "Barrier Wall"

[Instructions](#); [Return to Summary Box List](#)

Correct:

SUMMARY OF PERMANENT BARRIER WALL										
PAY ITEM NO.	PAY ITEM DESCRIPTION	LOCATION	SIDE	UNIT	QUANTITY		TOTAL		DESIGN NOTES	CONSTRUCTION REMARKS
		STA. TO STA.			P	F	P	F		
0521 1	MEDIAN CONCRETE BARRIER WALL,	1352+40.00 to 1360+99.97		LF	860.0		1000			
	CAST IN PLACE	1360+99.97 to 1362+15.37			115.6					
		1362+15.37 to 1362+39.91	LT		24.6					
0521 72 3	SHOULDER CONCRETE BARRIER WALL,	1447+50.57 to 1454+35.03	RT	LF	692.5		2037			
	RIGID-SHOULDER	1456+97.27 to 1464+20.00	RT		722.7					
		1457+53.98 to 1463+76.08	LT		622.1					
0521 72 10	SHOULDER CONCRETE BARRIER WALL,	432+81.61 to 434+03.17	RT	LF	121.6		243			
	RIGID SHOULDER 42"	434+03.17 to 434+03.17	RT		121.6					

Incorrect:

Do NOT repeat total quantity in every summary box when it continues to the next sheet. The total should ONLY be on the FIRST summary box in the FIRST row (not centered or justified to the bottom of a merged cell) where the pay item is introduced to a box.

SUMMARY OF CURB & GUTTER AND/OR TRAFFIC SEPARATORS															
PAY ITEM NO.	PAY ITEM DESCRIPTION	LOCATION		SIDE	AREA ID	UNIT	QUANTITY				TOTAL		DESIGN NOTES	CONSTRUCTION REMARKS	
		STA.	TO STA.				GROSS LENGTH	DEDUCTIONS TYPE	LENGTH	NET LENGTH P	F	P			F
0520-1-10	CONCRETE CURB & GUTTER, TYPE F (CONT'D)	80+69.80	to 80+74.16	RT	67251	LF	8.50								
		81+14.47	to 81+38.83	RT	67223		33.60								
		81+38.83	to 83+29.91	RT	67230		191.10								
		82+98.91	to 83+11.91	LT	67204		20.50								
		82+98.91	to 83+11.91	LT	67463		20.50								
		83+11.47	to 83+11.91	LT	67170		67.00								
		83+29.91	to 86+24.59	RT	67224		294.70								
		83+37.89	to 83+38.00	LT	67185		65.10								
		83+38.00	to 83+53.00	LT	67206		23.60								
		83+53.00	to 86+61.50	LT	67205		308.50								
		86+24.59	to 86+54.59	RT	67253		47.00								
		86+54.59	to 86+54.89	RT	67228		45.30								
		86+61.50	to 86+76.50	LT	67187		23.60								
		86+76.50		LT	67163		8.70								
		86+76.50	to 86+76.63	LT	67457		27.40								
		86+90.57	to 87+20.57	RT	67254		47.20								
		86+90.57	to 86+90.68	RT	67227		45.00								
		87+06.92	to 87+31.92	LT	67186		55.00								
		87+06.92	to 87+06.93	LT	67458		15.80								
		87+20.57	to 90+86.25	RT	67226		365.70								
		87+41.92	to 90+86.51	LT	67177		344.60								
		90+86.25	to 91+16.25	RT	67236		47.50								
		90+86.51	to 91+16.51	LT	67207		47.20								
		91+15.76	to 91+16.25	RT	67234		37.80								
		91+15.76	to 91+15.83	RT	67497		22.10								
		91+16.42	to 91+16.45	LT	67461		24.80				24052.96				
		91+16.51	to 91+16.52	LT	67171		19.30								
		91+40.30	to 91+41.09	LT	67462		36.90								
		91+41.09	to 91+79.08	LT	67188		59.00								
		91+53.10	to 91+54.28	RT	67233		59.10								
		91+53.10	to 91+83.09	RT	67235		47.80								
		91+79.08	to 96+90.87	LT	67178		511.80								
		91+83.09	to 94+33.47	RT			264.26								
		94+54.57	to 97+50.27	RT			306.60								
		96+90.87	to 97+05.86	LT	67189		23.90								
		97+04.26	to 97+05.86	LT	67172		74.80								
		97+30.17	to 97+31.33	LT	67164		73.70								
		97+31.33	to 97+48.33	LT	67208		26.40								
		97+48.33	to 97+97.77	LT	67158		49.50								
		97+50.27	to 97+82.26	RT	67257		49.50								
		97+82.26	to 97+82.37	RT	67238		4.20								
		97+82.36	to 97+83.02	RT	67237		25.50								
		97+97.80	to 104+23.85	LT	67156		626.10								
		98+07.49	to 98+08.23	RT	67239		25.50								
		98+07.49		RT	67255		0.80								
		98+07.49	to 98+41.49	RT	67256		53.40								
		98+41.49	to 104+23.18	RT	67216		581.70								
		104+23.18	to 104+55.17	RT	67260		49.70								
		104+23.85	to 104+48.84	LT	67169		39.80								
		104+47.59	to 104+48.84	LT	67173		66.80								
		104+55.17	to 104+56.79	RT	67241		67.90								

Do not delete the total column for boxes that total across and then add pay items by sections with individual total rows.

SUMMARY OF CURB & GUTTER AND/OR TRAFFIC SEPARATORS												
PAY ITEM NO.	PAY ITEM DESCRIPTION	LOCATION		SIDE	UNIT	QUANTITY				DESIGN NOTES	CONSTRUCTION REMARKS	
		STA. TO STA.				GROSS LENGTH	DEDUCTIONS		NET LENGTH			
							TYPE	LENGTH	P			F
520-2-2	CONCRETE CURB TYPE B	1131+61.74 TO 1131+76.90		LT	LF	40.6						
	CURB AND GUTTER B TOTAL				LF	41						
520-2-4	CONCRETE CURB TYPE D	SR 482										
		1127+96.73 TO 1128+05.85		LT	LF	17.3						
		1128+12.35 TO 1128+60.66		LT	LF	48.7						
		1128+55.74 TO 1128+71.32		LT	LF	77.8						
		1129+00.63 TO 1129+19.16		LT	LF	22.8						
		1129+03.32 TO 1129+42.38		LT	LF	48.7						
		1129+96.77 TO 1131+20.33		LT	LF	124.8						
		1127+13.87 TO 1127+13.31		RT	LF	14.0						
		INTERNATIONAL DR										
		22+10.15 TO 22+08.46		LT	LF	12.9						
		22+33.51 TO 22+40.00		LT	LF	15.0						
		26+10.66 TO 26+10.37		LT	LF	3.1						
		26+35.86 TO 26+37.50		LT	LF	6.9						
		34+35.42 TO 34+35.42		LT	LF	24.0						
		34+59.42 TO 34+59.42		LT	LF	24.0						
		35+78.34 TO 34+78.34		LT	LF	6.0						
		36+01.84 TO 36+01.84		LT	LF	6.0						
	CONCRETE CURB TYPE D TOTAL:				LF	452						
520-3	CONCRETE VALLEY GUTTER	SR 482										
		1128+55.42 TO 1129+14.73		LT	LF	59.3						
		1129+29.25 TO 1129+98.72		LT	LF	69.5						
		1131+03.88 TO 1132+35.19		LT	LF	131.3						
		1136+50.72 TO 1137+49.80		LT	LF	99.1						
		1131+28.54 TO 1132+08.88		RT	LF	80.3						
		1133+90.34 TO 1134+72.26		RT	LF	81.9						
		INTERNATIONAL DR										
		21+86.65 TO 22+57.01		LT	LF	70.4						
		25+93.03 TO 26+53.52		LT	LF	60.5						
		25+84.95 TO 26+84.72		RT	LF	99.8						
	CONCRETE VALLEY GUTTER TOTAL:				LF	752						

33. Summary of Sidewalk & Detectable Warnings

[Instructions](#); [Return to Summary Box List](#)

Correct:

Where "back of sidewalk curb" is constructed or removed with the sidewalk, no separate payment is made. Optional: The designer may quantify these lengths, in accordance with the Design Standards/Standard Plans, and show in the Design Notes column.

SUMMARY OF SIDEWALK & DETECTABLE WARNINGS												
LOCATION STA. TO STA.	SIDE	AREA ID.	LENGTH	WIDTH	CONC SIDEWALK 4"		CONC SIDEWALK 6"		DETECTABLE WARNINGS		DESIGN NOTES	CONSTRUCTION REMARKS
					0522 1		0522 2		0527 2			
					SY		SY		SF			
		P	F	P	F	P	F					
60+41.48 to 60+54.20	LT	17214			7.7							
60+66.80 to 61+22.56	LT	17200			36.7							
61+35.07 to 61+60.65	LT	17187			15.6							
61+72.27 to 62+15.71	LT	17173			27.5							
62+28.29 to 62+88.28	LT	17158			38.8							
63+05.72 to 63+42.22	LT	29176			20.7							
63+75.00 to 66+99.00	RT	30532			207.1							
63+88.88 to 65+93.33	LT	33222			129.4							
66+77.17 to 66+32.27	LT	33167			7.5							
66+33.27 to 66+99.00	LT	33188			37.5							
68+45.00 to 69+90.00	RT	29061			88.5							
68+45.00 to 70+74.00	LT	29042			149.4							
70+86.00 to 71+50.00	LT	14559			40.7							
71+62.00 to 71+94.22	LT	14572			20.0							
72+06.13 to 72+49.43	LT	30470			27.9							
60+44.41 to 60+76.58	LT	20127					23.9					
61+72.88 to 61+45.88	LT	20144					20.8					
61+44.54 to 61+77.46	RT	20110					24.3					
61+50.92 to 61+82.07	LT	20099					25.6					
62+05.83 to 62+38.88	LT	20133					33.4					
62+78.48 to 63+15.52	LT	30421					47.0					
65+83.01 to 66+27.09	LT	40918					111.3					
70+37.00 to 70+69.00	RT	20012					29.8					
70+64.00 to 70+96.00	LT	29245					27.7					
70+69.00 to 71+01.00	RT	20024					31.3					
71+26.50 to 71+58.50	RT	20045					29.0					
71+40.00 to 71+72.03	LT	29235					23.4					
71+84.05 to 72+16.86	LT	29224					20.6					
72+05.07 to 72+37.08	RT	35215					25.3					
63+33.50 to 63+40.88	LT	40901							13.1			
63+90.23 to 63+97.60	LT	40896							13.1			
SUB-TOTAL						856		473		26		
TOTAL						856		473		26		

SUMMARY OF SIDEWALK & DETECTABLE WARNINGS									
LOCATION STA. TO STA.	SIDE	CONC SIDEWALK 4"		CONC SIDEWALK 6"		DETECTABLE WARNINGS		DESIGN NOTES	CONSTRUCTION REMARKS
		0522 1		0522 2		0527 2			
		SY		SY		SF			
P	F	P	F	P	F				
429+58.54 TO 430+58.03	LT	53.9							
429+58.54 TO 429+78.06	LT					30.0			
430+54.38 TO 430+57.98	LT					11.0			
431+08.96 TO 431+12.09	LT					10.0			
431+09.25 TO 433+54.21	LT	135.5							
433+50.31 TO 433+53.93	LT					10.0			
433+78.40 TO 433+82.24	LT					11.0			
433+78.69 TO 435+24.31	LT	87.3							
435+20.45 TO 435+24.02	LT					11.0			
435+49.96 TO 440+14.36	LT	259.9							
435+49.96 TO 435+53.14	LT					10.0			
440+12.27 TO 440+14.37	LT					10.0			
440+21.31 TO 440+86.35	LT	36.3							
440+21.31 TO 440+23.35	LT					10.0			
440+86.30 TO 440+98.92	LT			7.0					
440+98.80 TO 442+27.63	LT	71.1							
442+23.68 TO 442+27.63	LT					11.0			
442+54.44 TO 444+31.50	LT	98.1							
442+54.44 TO 442+59.82	LT					12.0			
444+31.47 TO 444+58.96	LT			15.3					
444+58.93 TO 445+39.26	LT	43.9							
445+34.66 TO 445+39.27	LT					11.0			
445+59.57 TO 445+63.97	LT					11.0			
445+59.86 TO 449+39.51	LT	215.1							
449+35.74 TO 449+38.75	LT					16.0			
449+69.37 TO 449+75.72	LT					13.0			
449+69.66 TO 455+66.19	LT	328.9							
455+51.77 TO 455+65.91	LT					23.0			
456+29.53 TO 456+41.07	LT					19.0			
456+29.82 TO 456+64.50	LT	16.4							
456+57.17 TO 456+64.22	LT					13.0			
457+16.93 TO 460+12.63	LT	162.8							
457+16.93 TO 457+24.52	LT					14.0			
460+08.74 TO 460+12.62	LT					10.0			
460+54.55 TO 460+59.38	LT					9.0			
460+55.00 TO 466+05.21	LT	375.7							
SUB-TOTAL:		1831		22		245			
TOTAL:		3699		107		535			

On LS Project (optional: pay item numbers not shown)

SUMMARY OF SIDEWALK & DETECTABLE WARNINGS										
LOCATION STA. TO STA.	SIDE	AREA ID	LENGTH	WIDTH	CONC SIDEWALK 4"		DETECTABLE WARNINGS		DESIGN NOTES	CONSTRUCTION REMARKS
					SY		SF			
					P	F	P	F		
129+06.01 to 129+11.61	RT	13088			4.3				TENNESSEE AVE SE	
129+11.55 to 129+26.99	RT	13885			11.8				TENNESSEE AVE SE	
138+37.08 to 138+50.32	LT	8198			6.0				LURA AVE NW	
140+43.57 to 140+64.39	LT	13534			12.0				HURWOOD AVE SW	
141+07.15 to 141+15.93	LT	8282			1.0				HURWOOD AVE NW	
141+07.42 to 141+21.08	LT	13900			6.5				HURWOOD AVE NW	
141+43.79 to 141+49.30	LT	13081			3.7				HURWOOD AVE NW	
141+49.30 to 141+62.30	LT	13078			7.5				HURWOOD AVE NW	
141+62.29 to 141+79.41	LT	13024			8.0				HURWOOD AVE NW	
113+67.00 to 113+81.47	RT	13727					23.6		HOMEDEPOT, DELIVERY ENTRANCE	
114+48.06 to 114+61.32	RT	13729					21.7		HOMEDEPOT, DELIVERY ENTRANCE	
117+90.11 to 118+03.22	RT	13734					21.6		HOMEDEPOT, 1ST ENTRANCE SE	
118+07.48 to 118+09.48	LT	13744					10.2		TANGERINE AVE SW	
118+53.46 to 118+65.76	LT	13749					22.4		TANGERINE AVE NW	
118+65.59 to 118+78.67	RT	13739					21.6		HOMEDEPOT, 1ST ENTRANCE NE	
121+36.88 to 121+52.51	RT	13754					25.0		HOMEDEPOT, 2ND ENTRANCE SE	
129+18.60 to 129+26.99	RT	13112					17.4		TENNESSEE AVE SE	
133+30.18 to 133+41.82	RT	13762					19.7		GEORGIA AVE NE	
136+39.89 to 136+48.98	RT	13768					14.8		HATFIELD AVE SE	
136+88.02 to 136+96.81	RT	13773					17.1		HATFIELD AVE NE	
138+41.20 to 138+44.25	LT	13220					8.0		LURA AVE NW	
140+53.19 to 140+64.39	LT	13227					25.2		HURWOOD AVE SW	
141+11.35 to 141+14.25	LT	68243					8.0		HURWOOD AVE NW	
141+53.30 to 141+58.30	LT	13252					10.0		HURWOOD AVE NW	

Incorrect:

Either the Area ID or the length and width columns must be used. Do not delete these columns.

SUMMARY OF SIDEWALK & DETECTABLE WARNINGS										
LOCATION		SIDE	CONC SIDEWALK 4"		CONC SIDEWALK 6"		DETECTABLE WARNINGS		DESIGN NOTES	CONSTRUCTION REMARKS
			0522 1	0522 2	0527 2					
STA. TO STA.			SY		SY		SF			
		P	F	P	F	P	F			
429+11.48 TO 429+56.19	RT		23.9							
429+11.48 TO 429+17.35	RT					12.0				
429+51.79 TO 430+66.60	RT			60.3						
430+62.54 TO 431+14.62	RT		25.7							
431+03.50 TO 431+14.62	RT					18.0				
431+33.99 TO 431+41.23	RT					13.0				
431+34.00 TO 432+08.73	RT		40.0							
432+03.60 TO 432+08.73	RT					12.0				
432+39.21 TO 434+07.51	RT		91.3							
432+39.21 TO 432+50.23	RT					18.0				
433+99.37 TO 434+07.51	RT					15.0				
434+38.50 TO 442+07.31	RT		425.9							
434+38.50 TO 434+44.53	RT					12.0				
441+90.62 TO 442+07.31	RT					25.0				
442+81.84 TO 448+41.47	RT		311.7							
442+81.84 TO 442+98.71	RT					26.0				
448+36.47 TO 448+41.47	RT					11.0				
448+76.12 TO 449+52.66	RT		41.8							
448+76.12 TO 448+80.80	RT					11.0				
449+50.42 TO 449+52.66	RT					10.0				
449+80.65 TO 456+13.20	RT		351.4							
449+80.65 TO 449+83.01	RT					10.0				
456+07.24 TO 456+13.20	RT					12.0				
456+56.51 TO 457+87.88	RT		72.1							
456+56.51 TO 456+63.10	RT					13.0				
457+85.81 TO 457+87.88	RT					10.0				
458+02.86 TO 458+86.34	RT		46.1							
458+02.86 TO 458+06.47	RT					11.0				
458+84.14 TO 458+86.34	RT					10.0				
459+04.66 TO 460+30.89	RT		73.9							
459+04.66 TO 459+09.33	RT					11.0				
460+27.47 TO 460+30.11	RT					18.0				
460+51.31 TO 460+55.24	RT					12.0				
460+51.80 TO 465+59.33	RT		341.4							
465+49.46 TO 465+85.45	RT			24.4						
465+75.24 TO 466+04.13	RT			23.2						
SUB-TOTAL:			1868.4		84.7		290			

When the Area ID is not used, the width and length should be included in the available columns. The width should not be documented in the Design Notes column.

SUMMARY OF SIDEWALK & DETECTABLE WARNINGS													
LOCATION STA. TO STA.	SIDE	AREA ID	LENGTH	WIDTH	CONC SIDEWALK 4"		CONC SIDEWALK 6"		DETECTABLE WARNINGS		DESIGN NOTES	CONSTRUCTION REMARKS	
					0522 1		0522 2		0527 2				
					SY		SY		SY				
P	F	P	F	P	F	P	F						
129+71.45 to 130+56.08	RT				18.00							WIDTH= 2.0', HARMONIZATION AREA	
131+82.10 to 132+39.80	RT				39.10							WIDTH= 4.3', HARMONIZATION AREA	
137+89.36 to 138+02.70	LT				8.40							WIDTH= 6.0', HARMONIZATION AREA	
139+96.85 to 140+69.20	RT				40.00							WIDTH= 7.3', HARMONIZATION AREA	
142+53.17 to 142+91.75	RT				24.50							WIDTH= 6.0', HARMONIZATION AREA	
143+21.75 to 143+45.75	RT				16.00							WIDTH= 6.0', HARMONIZATION AREA	
143+69.75 to 143+93.80	RT				15.90							WIDTH= 6.0', HARMONIZATION AREA	
144+23.78 to 144+64.68	RT				90.80							WIDTH= 20.0', HARMONIZATION AREA	
148+05.91 to 149+18.78	RT				2.70							WIDTH= 2.0', HARMONIZATION AREA	
149+03.77 to 149+41.28	LT				12.10							WIDTH= 3.0', HARMONIZATION AREA	
151+91.74 to 152+06.76	LT				4.20							WIDTH= 2.5', HARMONIZATION AREA	
157+90.00 to 158+13.45	LT				2.40							WIDTH= 1.0', HARMONIZATION AREA	
158+13.45 to 158+38.50	LT				7.80							WIDTH= 6.0', HARMONIZATION AREA	
8+59.00 to 9+58.98	RT				42.78							WIDTH= 5.0', HARMONIZATION AREA SIDE STREET-NW 12 ST(WEST)	
8+85.00 to 9+64.40	RT				17.80							WIDTH= 2.0', HARMONIZATION AREA SIDE STREET-NW 15 ST(WEST)	
10+50.36 to 11+23.83	RT				11.80							WIDTH= 1.5', HARMONIZATION AREA SIDE STREET-NW 17 ST(EAST)	
8+45.80 to 8+90.80	RT				19.40							WIDTH= 4.0', HARMONIZATION AREA SIDE STREET-NW 18 ST(WEST)	
8+66.32 to 9+01.52	LT				35.00							WIDTH= 9.0', HARMONIZATION AREA SIDE STREET-NW 18 ST(WEST)	
9+48.95 to 9+64.66	LT				20.00							WIDTH= 9.0', HARMONIZATION AREA SIDE STREET-NW 18 ST(WEST)	
10+35.62 to 10+94.74	LT				35.80							WIDTH= 5.0', HARMONIZATION AREA SIDE STREET-NW 21 TERR(EAST)	
11+14.74 to 11+44.32	LT				16.80							WIDTH= 5.0', HARMONIZATION AREA SIDE STREET-NW 21 TERR(EAST)	
10+44.00 to 10+96.01	RT				6.90							WIDTH= 1.3', HARMONIZATION AREA SIDE STREET-NW 22 ST	
69+33.21 to 69+68.21	LT	6717					16.10						
71+34.39 to 71+46.28	LT	65203					35.00						
71+38.13 to 71+80.11	RT	6697					19.60						
72+52.09 to 72+86.24	LT	6627					13.40						
73+69.04 to 74+01.04	LT	6645					13.80						
76+12.39 to 76+46.39	RT	6628					13.20						
78+33.49 to 78+40.10	RT	6719					19.80						
81+69.09 to 82+19.09	RT	6630					27.70						
82+16.01 to 82+60.01	LT	6631					19.50						
83+04.73 to 83+09.84	LT	44754					9.60						
83+18.88 to 83+62.80	RT	6632					22.10						
83+39.85 to 83+44.93	LT	6720					12.20						
83+57.45 to 83+85.45	LT	6633					16.30						
83+87.45 to 84+11.45	LT	6634					15.10						
84+13.45 to 84+41.45	LT	6635					16.20						
84+60.88 to 84+92.88	LT	6636					17.10						
84+97.23 to 85+29.23	LT	6637					17.00						
86+24.67 to 86+62.67	LT	6638					22.30						
97+73.09 to 98+11.12	LT	6639					28.90						
98+47.68 to 99+03.68	RT	6640					35.70						
99+28.16 to 99+60.16	LT	6641					21.00						
99+92.98 to 100+32.98	LT	6642					34.50						
SUB-TOTAL:					488.18		446.10						

34. Summary of Permanent Driveways

[Instructions](#); [Return to Summary Box List](#)

Correct:

Incorrect:

35. Summary of Ditch Pavement

[Instructions](#); [Return to Summary Box List](#)

Correct:

SUMMARY OF DITCH PAVEMENT								
LOCATION	SIDE	AREA ID	LENGTH	WIDTH	DITCH PAVEMENT		DESIGN NOTES	CONSTRUCTION REMARKS
					0524	1 2		
STA. TO STA.					SY			
					P	F		
964+30.00 to 967+10.00	LT		280.0	7.0		217.8		
966+74.00 to 966+84.00	RT		10.0	7.0		7.8		
SUB-TOTAL:						225.6		
TOTAL:						226		

Incorrect:

Either the Area ID or the length and width columns must be used.

SUMMARY OF DITCH PAVEMENT												
LOCATION	SIDE	AREA ID	LENGTH	WIDTH	RIPRAP - RUBBLE (DITCH LINING)		BEDDING STONE		DITCH PAVEMENT		DESIGN NOTES	CONSTRUCTION REMARKS
					0530	3 4	0530	74	0524	1 2		
STA. TO STA.					TN		TN		SY			
					P	F	P	F	P	F		
65+87.50 to 65+72.50	LT									3.0		
66+78.01 to 67+10.99	RT				34.1		71.9					
68+77.52 to 68+87.54	LT				4.0		2.9					
SUB-TOTAL:					38.1	0.0	74.8	0.0	3.0	0.0		
TOTAL:					38.1	0.0	74.8	0.0	3.0	0.0		

36. Summary of Guardrail

[Instructions](#); [Return to Summary Box List](#)

Correct:

SUMMARY OF GUARDRAIL													
LOCATION	SIDE	GUARDRAIL (W-BEAM)		RUB RAIL (SINGLE FACE)		PIPE RAIL		GUARDRAIL REMOVAL		END ANCHORAGE ASSEMBLY (TYPE 11)		DESIGN NOTES	CONSTRUCTION REMARKS
		0536	1 1	0536	5 1	0536	6	0536	73	0536	85 25		
STA. TO STA.		LF		LF		LF		LF		EA			
		P	F	P	F	P	F	P	F	P	F		
66+22.32 to 67+64.83	LT					142.5							
67+64.83 to 67+99.20	LT							37.5					
67+64.83 to 68+58.01	LT	100.0											
68+01.01 to 68+58.01	LT			100.0									
86+00.00 to 400+19.50	LT					1073.8						EQUATION: STA. 96+54.25(BK)= STA. 400+00.00(ADP)	
68+42.15 to 68+42.15	LT									1			
	SUB-TOTAL:	100.0		100.0		1216.3		37.5		1			
	TOTAL:	100		100		1216		38		1			

Incorrect:

Note implies full run of guardrail requires encased posts. This would need to be handled by a specification revision and not a note.

SUMMARY OF GUARDRAIL											
LOCATION	SIDE	GUARDRAIL		PIPE RAIL		END ANCHORAGE ASSEMBLY				DESIGN NOTES	CONSTRUCTION REMARKS
		0536	1 1	0536	6	0536	85 24	0536	85 25		
STA. TO STA.		LF		LF		EA		EA			
		P	F	P	F	P	F	P	F		
92+30.65 TO 96+67.64	LT	437		437		1		1		*	
92+95.29 TO 94+20.31	RT	125		125		1		1		*	
94+80.20 TO 96+80.71	RT	200.5		200.5		1		1		*	
	SUB-TOTAL:	762.5		762.5		3		3			
	TOTAL:	762.5		762.5		3		3			

* NOTE: USE ENCASED (ROUND OPTION) STEEL GUARDRAIL POSTS.

37. Summary of Cable Barrier (Pending)

[Instructions](#); [Return to Summary Box List](#)

Correct: See Instructions for Developmental Design Standards/Developmental Standard Plans Instructions. <http://www.fdot.gov/roadway/DS/Dev/IDDS/IDDS-D00450.pdf>

Incorrect:

38. Summary of Permanent Crash Cushions

[Instructions](#); [Return to Summary Box List](#)

Correct:

SUMMARY OF PERMANENT CRASH CUSHIONS (431422-1-52-01)												
LOCATION STATION	SIDE	BARRIER SYSTEM		DESIGN LENGTH	DESIGN SPEED	CRASH TEST LEVEL	HAZARD WIDTH	LENGTH RESTRICTION	CRASH CUSHION		DESIGN NOTES	CONSTRUCTION REMARKS
		CONCRETE BARRIER WALL	GUARDRAIL	FT.	MPH	TL-2 / TL-3	IN.	FT.	0544	75		
797+06.03	LT.	x		18	60	TL-3		24.00	1		Bridge # 030075	
SUB-TOTAL:									1			
TOTAL:												

Incorrect:

Missing design length column.

SUMMARY OF PERMANENT CRASH CUSHIONS										
LOCATION STATION	SIDE	BARRIER SYSTEM		DESIGN SPEED	CRASH TEST LEVEL	LENGTH RESTRICTION	CRASH CUSHION		DESIGN NOTES	CONSTRUCTION REMARKS
		CONCRETE BARRIER WALL	GUARDRAIL	MPH	TL-2 / TL-3	FT	0544	75		
309+04.00	RT.	x		70	TL-3	18.75	1			
309+73.03	LT.	x		70	TL-3	18.75	1			
502+43.52	RT.	x		70	TL-3	18.75	1			
SUB-TOTAL:							3			
TOTAL:							3			

39. Summary of Fencing

[Instructions](#); [Return to Summary Box List](#)

Correct:

SUMMARY OF FENCING											
PAY ITEM NO.	DESCRIPTION	LOCATION		SIDE	UNIT	QUANTITY		TOTAL		DESIGN NOTES	CONSTRUCTION REMARKS
		STA.	TO STA.			P	F	P	F		
550-10-120	FENCING, TYPE A, 5.1-6.0', STANDARD	1379+17.98	TD 1379+21.70	RT	LF	24.0		24.0			
		1379+48.11	TD 1379+53.40	RT	LF	48.0					
		1399+95.73	TD 1400+25.85	LT, /RT	LF	48.0					
		1402+25.26	TD 1402+43.82	LT, /RT	LF	24.0					
		1402+45.03	TD 1402+78.24	LT, /RT	LF	24.0					
550-10-128	FENCING, TYPE A, 5.1-6.0', RESET EXISTING	321+63.02	TD 321+64.74	RT	LF	44.0		44.0			
		321+61.50	TD 322+25.04	RT	LF	56.0					
		379+45.85	TD 379+53.58	LT	LF	40.0					
		379+81.58	TD 379+92.86	LT	LF	48.0					
		400+31.82	TD 400+63.95	LT, /RT	LF	40.0					
		402+62.83	TD 402+75.33	LT, /RT	LF	19.0					
		403+00.84	TD 403+02.26	LT	LF	24.0					
		403+02.77	TD 403+08.43	LT, /RT	LF	13.0					

SUMMARY OF FENCING											
PAY ITEM NO.	DESCRIPTION	LOCATION		SIDE	UNIT	QUANTITY		TOTAL		DESIGN NOTES	CONSTRUCTION REMARKS
		STA.	TO STA.			P	F	P	F		
0550 10222	Fencing, Type B, 5.1- 6.0' Height, w/ Vinyl Coating	1412+96.73	R2 to 1412+98.62	R2	LT	LF	1.9		2003		
		1412+96.73	R2 to 1412+99.62	R2	LT		38.5				
		1413+16.82	R2 to 1417+96.36	R2	LT		479.6				
		1418+10.76	R2 to 1418+20.16	R2	LT		23.7				
		1418+20.16	R2 to 1418+20.36	R2	LT		21.7				
		1428+53.58	R2 to 1434+46.34	R3	RT		1437.5				
0550 60212	Fence Gate, Type B, Single, 6.1-12.0' Opening	1434+46.33	R3 to 1434+46.34	R3	RT	EA	1.0		1		
0550 60225	Fence Gate, Type B, Double, 20.1-24.0' Opening	1412+99.62	R2 to 1413+16.82	R2	LT	EA	1.0		2		
		1417+96.36	R2 to 1418+20.36	R2	LT		1.0				

Incorrect:

40. Summary of Performance Turf

[Instructions](#); [Return to Summary Box List](#)

Correct:

SUMMARY OF PERFORMANCE TURF										
LOCATION STA. TO STA.	SIDE	AREA ID	LENGTH	WIDTH	PERFORMANCE TURF		PERFORMANCE TURF (SOD)		DESIGN NOTES	CONSTRUCTION REMARKS
					0570	1 1	0570	1 2		
					SY		SY			
					P	F	P	F		
83+36.00 to 86+36.09	RT	103295			320.4					
86+36.06 to 96+54.54	RT	106021			2354.4					
302+43.30 to 302+77.74	RT	88694			34.3					
400+20.60 to 402+11.28	LT	105018			616.4					
401+60.84 to 410+36.32	LT	103916			809.7					
67+46.08 to 83+36.00	RT	82996			3867.6					
68+00.15 to 76+22.98	LT	104834			2277.2					
76+53.52 to 79+00.00	LT	104915			467.4					
300+70.00 to 305+16.51	LT	60316			257.4					
301+86.13 to 302+47.11	RT	83032			16.2					
302+73.98 to 303+06.85	RT	83037			9.9					
303+18.71 to 305+98.96	RT	82977			533.6					
401+47.31 to 401+47.31		114826			662.3					
403+00.45 to 404+70.59	RT	114609			22.7					
407+66.30 to 410+33.63	RT	114626			157.8					
68+01.69 to 68+69.04	LT	84013					46.0			
68+69.04 to 73+20.00	LT	84788					172.7			
83+36.00 to 86+36.09	RT	103246					116.9			
67+26.29 to 73+20.00	RT	82671					235.5			
73+20.00 to 76+28.08	LT	92314					145.4			
73+20.00 to 78+80.00	RT	28169					218.2			
76+48.32 to 79+00.00	LT	92335					122.9			
78+80.00 to 83+36.00	RT	28320					177.4			
86+36.06 to 91+20.00	RT	60586					188.6			
91+20.00 to 96+54.54	RT	28202					208.2			
300+00.00 to 305+96.57	RT	80288					251.2			
300+00.01 to 306+05.87	LT	28064					212.7			
400+00.00 to 401+20.00	LT	78933					50.0			
400+00.00 to 401+20.00	RT	78945					46.7			
FROM DRAINAGE STRUCTURES	RT/LT						90.0			
SUB-TOTAL					12406.7		2281.2			
TOTAL					12406		2281			

Incorrect:

Do NOT create a new summary box. Plastic Erosion Mat and Prepared Soil Layer quantities go in the same summary box as the Performance Turf.

SUMMARY OF PLASTIC EROSION MAT										
PAY ITEM NO.	PAY ITEM DESCRIPTION	SIDE	AREA ID	UNIT	QUANTITY		TOTAL		DESIGN NOTES	CONSTRUCTION REMARKS
					P	F	P	F		
0571 1 13	PLASTIC EROSION MAT, TURF REINFORCED MAT, TYPE 3	LT	156440	SY	48.0		172		MAT @ HATCHETT CREEK	
		RT	156445		48.0				MAT @ HATCHETT CREEK	
		LT	156435		76.0				MAT @ HATCHETT CREEK	

SUMMARY OF PREPARED SOIL LAYER								
LOCATION	SIDE	AREA ID	LENGTH	WIDTH	PREPARED SOIL LAYER		DESIGN NOTES	CONSTRUCTION REMARKS
					0162 1 11			
STA. TO STA.					SY			
					P	F		
14+19.18 TO 14+44.75	LT				88.0		3-6" LAYERS OF 75/25 SOIL	
14+20.72 TO 14+43.35	RT				38.0		3-6" LAYERS OF 75/25 SOIL	
75+81.00 TO 76+60.00	LT/RT				153.0		21" LAYER OF 75/25 SOIL	
90+36.50 TO 90+98.00	LT/RT				133.0		21" LAYER OF 75/25 SOIL	
96+60.00 TO 97+41.00	LT/RT				192.0		21" LAYER OF 75/25 SOIL	
					SUB-TOTAL :		604	
					TOTAL :		604	

41. Summary of Traffic Monitoring Site Items

[Instructions; Return to Summary Box List](#)

Correct: See 695- 1 to verify if Traffic Monitoring Site is for Transportation Statistics “TranStat” Office, or if site is for Traffic Ops, MCSAW, or other purpose.

Incorrect:

LF quantity and sub-total should be shown to the tenth decimal place.

SUMMARY OF TRAFFIC MONITORING SITE ITEMS														
LOCATION		SIDE	CONDUIT (OPEN TRENCH)		PULL AND SPLICE BOX (17" X 30")		VEHICLE AXLE SENSOR, NON-WEIGHT		INDUCTIVE LOOP ASSEMBLY		CABINET		DESIGN NOTES	CONSTRUCTION REMARKS
SITE NO.	STATION		0630 2 11		0635 2 11		0695 1 1		0695 6 12		0695 7132			
			LF		EA		EA		EA		EA			
		P	F	P	F	P	F	P	F	P	F			
105616	1368+09.00	LT/RT	133		2		4		4		1			
SUB-TOTAL:			133		2		4		4		1			
TOTAL:			133		2		4		4		1			

CADD Manual, Chapter 8

FDOT-delivered Summary Box templates for use with LDM in both automated and manual formats:

Barrier Walls Pedestrian Longitudinal Channeling Devices
Curb and Traffic Separators Permanent Crash Cushions
Ditch Pavement Permanent Crash Cushions 2019
Driveways Railing
Edgedrain Sidewalk
Erosion Control Temporary Crash Cushions
Fencing Temporary Driveways
French Drain Trench Drain
Guardrail Turf and Prepared Soil
Mailboxes Turnouts
Miscellaneous Asphalt Underdrain
Pavement Utility Adjustments

FDOT-delivered Summary Box templates for use with LDM in manual format only:

Box Culverts
Clearing and Grubbing and Removal Items
Earthwork
General Items
Geotechnical Items
Litter Removal and Mowing
Lump Sum Items
Miscellaneous Drainage
Monitor Existing Structures
Pedestrian Special Detours
Side Drain and Mitered End Sections
Side Drains and Mitered End Section with Flowlines
Structures Quantities
Temporary Traffic Control Plan Items
Temporary Highway Lighting
Temporary Signalization and Detection
Traffic Monitoring Site Items
Walls

Chapter 8 SUMMARY TABLES

CADD tools are maintained by the State Engineering CADD Office. Additional guidance is available at <http://www.fdot.gov/cadd/default.shtm>. Updates are posted through maintenance releases and the FDOT CADD Support community website.

NOTICE: The CADD Office will be transitioning to NexGen plans, in accordance with FDM 900 Series, with new Summary Tables for the new Estimated Quantities Report. When a project is identified to use the new report format, the entire project must use the one report format. A “mixture” of new format and Plan Summary Boxes will not be accepted. See **BOE Chapter 8- Summary Boxes** for the projects using the older format.

All examples shown in this Chapter are as of 2-1-2021. Updates will be provided, as more examples are available. Please use the tables as provided through the latest CADD tools. **DO NOT MODIFY the Summary Table’s default format;** this may negatively impact the report generation tool.

PRECISION:

The CADD Office is working on the format of the tables and the Estimated Quantities Report tool.

Reviewers/ Designers, do not comment/change tables based on the precision or number of significant figures for automated quantities; these will be corrected through the CADD/EQ Report tools.

For projects at nearing 100% plans, with letting within 4 months, please contact CADD.Support@dot.state.fl.us and FDOT-PayItems@dot.state.fl.us for further guidance. For projects more than 4 months from letting, please be patient as the tools are refined.

Errors, Comments, or Questions:

- Contact CADD.Support@dot.state.fl.us for Table Calculation, Automation, or CADD Support.
- Contact FDOT-PayItems@dot.state.fl.us for Table/Box selection, Pay items, formatting, or BOE Support.

Training will be available through both the CADD Office and Estimates Office, to address the needs of designers, cadd users, reviewers, and estimators.

8.1 Introduction

8.1.1 History

For many years, Computation Books were used to document planned and final quantities, by location, for each pay item on a project. These books were used by construction

inspectors to document quantity changes and related notes as a project progressed. Alternatively, some pay items were documented within the plans on summary tables. The summary table information varied; only selected tables detailed the quantities by location. While both methods contained similar information, computation books were not a part of the contract bid documents.

Due to requests from our bidding contractors, the State Construction Office began an effort to streamline the final estimates process. Effective January 2014, projects starting the quantity calculation process no longer created computation books.

Summary Boxes were established to provide quantity information BY LOCATION, in a consistent format for ALL pay items. Beginning with lettings in November 2013, projects transitioned to the new summary boxes. All projects were required to use the summary boxes by July 2014.

Summary boxes were originally located behind the typical sections. In 2019, the location was moved to the end of the Roadway Plans. Projects beginning design in 2021 will utilize a new report titled “Estimated Quantities Report” (EQ Report), as detailed below, separate from the plans file(s). See the **2021 FDM** for additional information. The Summary Tables within the EQ Report continue to be an integral part of the Plans, Specifications, and Estimates Contract Package.

8.1.2 Current Documentation

Pay item Quantities will be documented in the contract documents using Summary Tables. The Summary Tables identify the pay item number, location description, location (station to station), unit of measure and designer notes to the contractor.

Throughout the BOE, including pay item details, all references to documentation on “Summary Boxes” will apply equally to documentation on “Summary Tables”, unless separate instructions are provided.

8-1.3 General Requirements:

All pay items must be documented on a Summary Table. The quantity of each item, by location is required. Each quantity must be calculated with one additional significant decimal place, totaled, and then rounded to the defined precision for each pay item, per Chapter 2. If station equations exist in the alignment, the region numbers are required for the station locations. These requirements will be incorporated into the automated quantities, as much as possible.

Do not include contingency quantities. Due to state and federal regulations, bid quantities must reflect actual work to be completed. Unforeseen work will be addressed in accordance with the Specifications. Quantity overruns, Measurement and Payment are addressed in Section 9 of the Standard Specifications. Construction/Final Estimates will adjust **Final** quantities and/or prices, as applicable, per the specifications.

Designers must retain back-up. If a question arises involving quantities, Construction will request in writing, that the designer provide detailed documentation or verify the concern of the pay item(s) in question. The designer shall produce the back-up documentation within five working days of the request from construction.

DO NOT create project specific Summary Tables. See CADD instructions for additional information about table automation and creating reports.

NOTE: Data tables are not intended for location, quantity, or pay item information; they may be used, as called for in the [FDOT Design Manual \(FDM\)](#) or [Standard Plans](#). These are used to supplement data calculations or item specific details. DO NOT use data tables to duplicate or relocate information from a Summary Table. As the Department moves towards 3-D models, the Summary Tables may include more supporting data, away from plan sheet notes and tables.

8.2 Summary Table Format

8.2.1 Adding and Deleting Columns or Rows

All Summary Tables are formatted in a similar manner, with column headings for pay item, location, offset, quantity, etc., as needed. Rows reflect the individual location(s), as needed. DO NOT add any additional columns. See the **CADD Manual** at <https://www.fdot.gov/cadd/downloads/publications/publications.shtm> for additional information.

8.2.2 Design Notes Column

When location specific notes are needed to clarify details or quantities, the design notes column may be used. Refer to **BOE Chapter 7** for additional information on plan/project notes.

8.3 Order and Placement within Plans

8.3.1 Plan Sets with Roadway Plans, with or without additional components:

Summary Tables for the Project, including components will be included in the EQ Report. The table order is automated; do not change the order of report pages. Follow **BOE Chapter 3** and **FDM** guidance for submitting the report.

#	Summary Table Title <i>(select title to go to Instructions)</i>	Examples ¹
1	Summary of General Items	Examples
2	Summary of Lump Sum Items	Examples

3	Summary of Temporary Traffic Control Plan Items	Examples
4	Summary of Special Detours	Examples
5	Summary of Temporary Highway Lighting	Examples
6	Summary of Temporary Driveways	Examples
7	Summary of Pedestrian Longitudinal Channelizing Devices	Examples
8	Summary of Temporary Crash Cushions	Examples
9	Summary of Temporary Signalization & Detection	Examples
10	Summary of Erosion and Sediment Control Devices	Examples
11	Summary of Litter Removal and Mowing	Examples
12	Summary of Monitor Existing Structures	Examples
13	Summary of Clearing and Grubbing & Removal Items	Examples
14	Summary of Mailboxes	Examples
15	Summary of Earthwork	Examples
16	Summary of Geotechnical Items	Examples
17	Summary of Driveway Base	Examples
18	Summary of Pavement	Examples
19	Summary of Miscellaneous Asphalt Pavement	Examples
20	Summary of Box Culverts	Examples
21	Summary of Drainage , includes Summary of Trench Drain, summary of Underdrain, Summary of French Drain, Summary of Edgedrain	Examples
22	Summary of Utility Adjustments	Examples
23	Summary of Miscellaneous Drainage Items	Examples
24	Summary of Railing	Examples
25	Summary of Curbs	Examples
26	Summary of Permanent Barriers	Examples
27	Summary of Permanent Driveways	Examples
28	Summary of Sidewalk & Detectable Warnings	Examples
29	Summary of Ditch Pavement	Examples
30	Summary of Walls	Examples
31	Summary of Guardrail	Examples
	Summary of Cable Barrier (Pending)	Examples
32	Summary of Permanent Crash Cushions	Examples
33	Summary of Fencing	Examples
34	Summary of Performance Turf	Examples
35	Summary of Traffic Monitoring Site Items	Examples
36	Summary of Utilities ²	Examples
37	Summary of Structures , Bridge XXXXXX ²	Examples
38	Summary of Landscaping ²	Examples
39	Summary of Signalization ²	Examples
40	Summary of ITS ²	
41	Summary of Signing and Pavement Marking ²	Examples
42	Summary of Lighting ²	Examples

¹Examples with new summary tables will be provided, as they become available.

See Example pages for additional information.

²Title of summary tables for component plans may include “Items”, during transition, i.e. *Summary of Utility Items*.

8.3.2 Plans without Roadway Component Plans

No changes when using Summary Tables.

8.3.3 Plans with Multiple Projects

For multiple projects let under one contract: An EQ Report is completed for each 11-digit FPID number, 123456-1-52-01.

For multiple project FPID numbers with one set of plans (incidental work for secondary project shown in primary project’s plans): An EQ Report is completed for each 11-digit FPID number, 123456-1-52-01. The plans sheet(s) MUST clearly identify work to be covered by the secondary project. This will ensure that the final quantities are recorded on the appropriate Summary Table.

8.4 Sample Summary Tables and Instructions

The summary tables shown below have been modified to fit this chapter. The latest versions are available within the FDOT CADD software, for use with the automated quantities tools. Enter the EOR information and project fields through the .xls file. DO NOT modify any other information on the cover page.

1. Summary of General Items

000: DA, Architectural, Mass Transit, other

[Examples; Return to Summary Box List](#)

This form is intended for use with Per Day items, Architectural Items, Mass Transit Items (if not included on a component plan Tabulation Sheet), and other incidental items with no specified form.

Do NOT use this form for 999-102- Speed and Law Enforcement Officer; this pay item is for use by the Construction Engineer, not the Contractor, and is not shown in a Summary Box.

Summary of General Items												
Pay Item Number	Pay Item Description	Units of Measure	Quantity		Total Quantity		Location				Design Notes	Construction Remarks
			P	F	P	F	Alignment	Begin Station	End Station	Side		
...												
...												
...												

2. Summary of Lump Sum Items

000: Lump Sum

[Examples; Return to Summary Box List](#)

This form is intended for use with Lump Sum pay items. For items with secondary units, quantify by location, per Chapter 2.

This summary table is NOT intended for use with pay item 999-2 Lump Sum Contract. Refer to 8.7 for summarizing quantities on Lump Sum Projects/Contracts.

This form is not for MOT items, such as Special Detour or Maintenance of Traffic- LS; use the Summary of Temporary Traffic Control Plan Items for MOT- LS.

This form is not for Clearing and Grubbing; use the Summary of Clearing and Grubbing & Removal Items.

For any Lump Sum pay item with a secondary unit, ensure that the secondary quantity is clearly defined, by location or areaID. For example, a LS/SF Item must be quantified by square foot, for each location.

For Lump Sum pay items with a LS secondary unit, the work and materials must be clearly identified by location. Detail the quantities of all items of work, to provide the contractor with sufficient information to bid the total work. As with all pay items, do not include non-quantifiable or contingency items within a Lump Sum item.

Do not include initial contingency or do not bid items on this summary box; these are not for the contractor's use.

Summary of Lump Sum Items								
Pay Item Number	Pay Item Description	Units of Measure	Quantity		Total Quantity		Design Notes	Construction Remarks
			P	F	P	F		
...								
...								
...								

3. Summary of Temporary Traffic Control Plan Items (TTCP)

102: Traffic Control

[Examples; Return to Summary Box List](#)

This form is intended for use with most Traffic Control Items. However, Temporary Driveways, Temporary Crash Cushions, and Temporary Signalization and Detection have separate summary boxes, and are not included on the Summary of TTCP.

Quantities for Each and Each Day items MUST be a whole number. See [examples](#) for items needed less than the full phase duration.

Information such as total days or number of applications should be added to Design Notes column.

This table is used for temporary pavement markings (paint) and RPMs for MOT quantities. See the Summary of Signing and Pavement Markings for Final Surface Pavement Markings (pay item 710-90).

For MOT Items not based on time or days, the duration column may be blank.

Do not include temporary fencing, sodding, or erosion control devices under MOT lump sum; See the BOE details for 550, 570, and 104 pay items.

Summary of Temporary Traffic Control Plan Items											
Pay Item Number	Pay Item Description	Units of Measure	Duration (Days)	Quantity		Total Quantity		Location		Design Notes	Construction Remarks
				P	F	P	F	Const. Phase			
...											
...											
...											

4. Summary of Special Detours

102: Traffic Control

[Examples;](#) [Return to Summary Box List](#)

This form is intended for use with Pedestrian and Vehicular Special Detours. DO NOT include these pay items on the Summary of Temporary Traffic Control Plan Items.

Locations for each Special Detour MUST be shown in the plans. Secondary units for all locations must be shown.

Summary of Special Detours																		
Pay Item Number	Pay Item Description	Units of Measure	Length (FT)	Width (FT)	Quantity		Total Quantity		Secondary Quantity			Location					Design Notes	Construction Remarks
					P	F	P	F	Units	P	F	Const. Phase	Alignment	Begin Station	End Station	Side		
...																		
...																		
...																		

5. Summary of Temporary Highway Lighting

102: Traffic Control

[Examples;](#) [Return to Summary Box List](#)

This form is intended for use with Temporary Highway Lighting, in accordance with the BOE details. DO NOT include these pay items on the Summary of Temporary Traffic Control Plan Items.

Locations MUST be shown in the plans. This is a Lump Sum/Each item; secondary units for all locations, by phase, must be shown.

Summary of Temporary Highway Lighting																		
Pay Item Number	Pay Item Description	Units of Measure	Quantity			Total Quantity		Secondary Quantity			Location					Design Notes	Construction Remarks	
			P	L	F	P	F	Units	P	F	Const. Phase	Alignment	Begin Station	End Station	Side			Element ID
...																		
...																		
...																		

6. Summary of Temporary Driveways

102: MOT- Temporary Driveways

[Examples;](#) [Return to Summary Box List](#)

This form is intended to summarize the locations for Temporary Driveways, and quantity needed for Commercial Material. DO NOT include this pay item on the Summary of Temporary Traffic Control Plan Items.

Summary of Temporary Driveways																	
Pay Item Number	Pay Item Description	Units of Measure	Length (FT)	Width (FT)	Thickness (IN)	Quantity		Total Quantity		Location					Design Notes	Construction Remarks	
						P	F	P	F	Alignment	Begin Station	End Station	Side	Element ID			
...																	
...																	
...																	

7. Summary of Pedestrian Longitudinal Channelizing Devices

102: Traffic Control

[Examples; Return to Summary Box List](#)

This form is intended for use with Pedestrian LCDs, in accordance with the FDM.

DO NOT include these pay items on the Summary of Temporary Traffic Control Plan Items. Locations MUST be shown in the plans, per the FDM.

Summary of Pedestrian Longitudinal Channelizing Devices														
Pay Item Number	Pay Item Description	Units of Measure	Quantity		Total Quantity		Const. Phase	Alignment	Location				Design Notes	Construction Remarks
			P	F	P	F			Begin Station	End Station	Side	Element ID		
...														
...														
...														

8. Summary of Temporary Crash Cushions

102: Temporary Crash Cushions

[Examples; Return to Summary Box List](#)

This form is intended for use with Temporary Crash Cushions. Details must be provided for each location. DO NOT include this pay item on the Summary of Temporary Traffic Control Plan Items.

Summary of Temporary Crash Cushions																	
Pay Item Number	Pay Item Description	Units of Measure	Work Zone Speed (MPH)	Test Level (TL-2 or TL-3)	Length Restriction (FT)	Width of Hazard (IN)	Quantity		Total Quantity		Location					Design Notes	Construction Remarks
							P	F	P	F	Const. Phase	Alignment	Begin Station	End Station	Side		
...																	
...																	
...																	

9. Summary of Temporary Signalization & Detection

102: Traffic Control

[Examples; Return to Summary Box List](#)

This form is intended for use with Temporary Signalization, as well as maintenance of Existing Signalization. DO NOT include these pay items on the Summary of Temporary Traffic Control Plan Items.

The Design Notes column may be used to identify the intersections by street names/numbers, as needed.

Summary of Temporary Signalization and Detection													
Pay Item Number	Pay Item Description	Units of Measure	Existing (E) or Temp/New (T)	Number Required	Duration (Days)	Quantity		Total Quantity		Location		Design Notes	Construction Remarks
						P	F	P	F	Const. Phase			
...													
...													
...													

10. Summary of Erosion and Sediment Control Devices

104: Erosion Control

[Examples; Return to Summary Box List](#)

This form is intended for use with Erosion and Sediment Control Devices. Summarize quantities by location.

Summary of Erosion Control and Sediment Control Devices													
Pay Item Number	Pay Item Description	Units of Measure	Quantity		Total Quantity		Location					Design Notes	Construction Remarks
			P	F	P	F	Alignment	Begin Station	End Station	Side	Element ID		
...													
...													
...													

11. Summary of Litter Removal and Mowing

107: Litter Removal and Mowing

[Examples; Return to Summary Box List](#)

This form is intended for use with Litter Removal and Mowing. The specification defines the area/limits that should be included for each pay item. Each area must be separately identified/summarized by location. **Phases may be combined**, if no area/quantity changes are needed.

This Summary Box may extend multiple plan sheets for projects with many small areas, such as urban areas with or without utility mowing strips, sidewalks, and driveways.

Effective July 2021 lettings: See the 107-pay items for updated area guidance.

Summary of Erosion Control and Sediment Control Devices													
Pay Item Number	Pay Item Description	Units of Measure	Quantity		Total Quantity		Location					Design Notes	Construction Remarks
			P	F	P	F	Alignment	Begin Station	End Station	Side	Element ID		
...													
...													
...													

12. Summary of Monitor Existing Structures

108: Monitor Existing Structures

[Examples; Return to Summary Box List](#)

This form is intended for use with Monitor Existing Structures. The specification defines the area/limits that should be included for each pay item. Do NOT include structures covered under Article 108-2 of the specifications. This box is intended to identify additional locations that may require monitoring outside the limits defined in the specifications (108-1). All locations for pay items 108-2 and 108-3 should be included in the summary box. Place X's in the quantity column and show the total at the bottom as 1.

For Lump Sum projects with no structures outside of the specification limits, it is possible to have an "empty box", with only the pay item 108-1 column. This empty box will serve as notice that monitoring is needed within the specification limits. Additional [examples](#), including traditional pay item projects, are shown below.

Reviewer/Estimator: The limits in Specification 108-2.1.2 are ONLY for settlement monitoring. ALL Vibration Monitoring and Groundwater Monitoring locations should be shown on the summary box.

Summary of Monitor Existing Structures															
Pay Item Number	Pay Item Description	Structure Type	Structure Usage	Units of Measure	Quantity		Total Quantity		Location					Design Notes	Construction Remarks
					P	F	P	F	Site No.	Alignment	Begin Station	End Station	Side		
...															
...															
...															

The note associated with the table is NOT added to the Summary Table. This must be addressed in the project's notes, until other guidance is provided.

December 2020: updated guidance is under review. See the 108-pay items for additional guidance.

13. Summary of Clearing and Grubbing & Removal Items

110: Removal Items

Examples; [Return to Summary Box List](#)

This form is intended for use with roadway items to be removed. For Signalization, Signing, or Lighting, use the appropriate component Summary Table.

This form may be used to detail items to be included under Clearing and Grubbing, LS.

If Clearing & Grubbing, Lump Sum, is used, the quantity for secondary units should be shown in the area column under secondary units. The "P" total should remain 1 LS.

Total acres may be shown in the Design Notes column.

Summary of Clearing Grubbing and Removal Items																		
Pay Item Number	Pay Item Description	Units of Measure	Length (FT)	Width (FT)	Quantity		Total Quantity		Secondary Quantity			Location					Design Notes	Construction Remarks
					P	F	P	F	Units	P	F	Alignment	Begin Station	End Station	Side	Element ID		
...																		
...																		
...																		

14. Summary of Mailboxes

110: Mailboxes

Examples; [Return to Summary Box List](#)

This form is intended for use with mailboxes.

Summary of Mailboxes													
Pay Item Number	Pay Item Description	Units of Measure	Quantity		Total Quantity		Location					Design Notes	Construction Remarks
			P	F	P	F	Alignment	Begin Station	End Station	Side	Element ID		
...													
...													
...													

15. Summary of Earthwork

120: Earthwork

Examples; [Return to Summary Box List](#)

This form is intended for use with all earthwork items. For earthwork items with SY units of measure, add column pair with P and F columns.

Expanded area calculations may be included with quantity calculations on additional worksheets. See CADD guidance for shapes and documentation by alignment.

Summary of Earthwork													
Pay Item Number	Pay Item Description	Units of Measure	Quantity		Total Quantity		Location					Design Notes	Construction Remarks
			P	F	P	F	Alignment	Begin Station	End Station	Side	Element ID		
...													
...													
...													

16. Summary of Geotechnical Items

140s and 400s: Geotechnical

[Examples; Return to Summary Box List](#)

This form is intended for use with Geotechnical Items. Design Notes column may be used to refer to Technical Special Provisions, as applicable, to clarify quantities shown on the summary box.

Summary of Geotechnical Items													
Pay Item Number	Pay Item Description	Units of Measure	Quantity		Total Quantity		Location					Design Notes	Construction Remarks
			P	F	P	F	Alignment	Begin Station	End Station	Side	Element ID		
...													
...													
...													

17. Summary of Driveway Base

286: Summary of Driveway Base- base material

[Examples; Return to Summary Box List](#)

This form is intended for use with Driveway Base. Refer to pay item and specification for details. Note: Specification Section title was changed.

For concrete turnouts/driveways, see the Summary of Permanent Driveways or Summary of Sidewalk & Detectable Warnings.

The asphalt surface course (Superpave) is paid separately under 334-Asphalt. The asphalt quantities may be shown on the Summary of Permanent Driveways or Summary of Pavement.

Summary of Driveway Base													
Pay Item Number	Pay Item Description	Units of Measure	Quantity		Total Quantity		Location					Design Notes	Construction Remarks
			P	F	P	F	Alignment	Begin Station	End Station	Side	Element ID		
...													
...													
...													

18. Summary of Pavement

160s, 200s, 300s, 520s, and 546s: Pavement- patterned pavement or architectural pavers, rumble strips.

[Examples; Return to Summary Box List](#)

This form is intended for use with permanent asphalt and concrete pavement, including patterned/textured pavement. For asphalt driveways, the quantity may be shown on this summary box, or the Summary of Permanent Driveways. When driveways are shown on this summary box, add "Driveway" to the description column for each location.

For quantities summarized on the Summary of Permanent Driveways, add a row to this summary box to indicate the total from the former box.

DO NOT break this summary box into separate boxes for each pay item. Follow rules for continued boxes, as needed.

When overbuild is used, show overbuild quantities separate from structural quantities. Add "Overbuild" to the Design Notes column for each location. Do NOT create any other overbuild quantity summary box in the plans. See FDM 306 for overbuild details required. Refer to 334- pay item group for additional details.

Summary of Pavement														Design Notes	Construction Remarks	
Pay Item Number	Pay Item Description	Units of Measure	Quantity		Total Quantity		Location									
			P	F	P	F	Alignment	Begin Station	End Station	Location Description	Side	Element ID				
...																
...																
...																

19. Summary of Miscellaneous Asphalt Pavement

339: Miscellaneous Asphalt, per TN

[Examples; Return to Summary Box List](#)

This form is intended for use with Miscellaneous Asphalt Pavement, including under guardrail, bicycle paths, and median pavement. Do not use this pay item for Special Detours or other temporary asphalt applications.

Summary of Miscellaneous Asphalt														Design Notes	Construction Remarks	
Pay Item Number	Pay Item Description	Units of Measure	Thickness (IN)	Quantity		Total Quantity		Location								
				P	F	P	F	Alignment	Begin Station	End Station	Location Description	Side	Element ID			
...																
...																
...																

20. Summary of Box Culverts

400s: Box Culverts, Reinforcing Steel

[Examples; Return to Summary Box List](#)

This form is used for Box Culverts less than 20'.

Bridge Culverts (20' and greater) use the Summary of Structure Quantities, with the bridge number in the summary box heading.

Summary of Box Culverts														Design Notes	Construction Remarks	
Pay Item Number	Pay Item Description	Units of Measure	Quantity		Total Quantity		Location									
			P	F	P	F	Alignment	Begin Station	End Station	Location Description	Side	Element ID				
...																
...																
...																

21. Summary of Drainage (formerly Summary of Side Drain & Mitered End Sections)

430: Drainage

[Examples; Return to Summary Box List](#)

These forms are intended for use with Sidedrain and Mitered End Sections. Either form may be used, as needed (with or without flowlines).

NEW, January 2021: This form replaces previous Summary of Trench Drain, Summary of Underdrain, Summary of French Drain, and Summary of Edgedrain.

Due to space constraints, pay items are not normally shown on Summary of Drainage Structure sheets. DO NOT add pay items to this summary box. Do NOT add a column for sod; use the Summary of Performance Turf.

For miscellaneous drainage work, the Summary of Miscellaneous Drainage Items may be used.

Columns for unused sizes or shapes may be removed. Additional sizes may be added.

Summary of Drainage														
Pay Item Number	Label	Pay Item Description	Units of Measure	Quantity		Total Quantity		Location					Design Notes	Construction Remarks
				P	F	P	F	Alignment	Begin Station	End Station	Side	Element ID		
...														
...														
...														

22. Summary of Utility Adjustments

425: Manholes & Inlets

[Examples; Return to Summary Box List](#)

Work being completed under the roadway project (-52 project number) will be shown in the roadway plans on the Summary of Utility Adjustments. This is normally limited to utility adjustment for milling, pay items 425-4, 425-5-A, and 425-6.

Work being completed under the JPA (-56 project) will be shown in the utility component plans with a tabulation sheet. DO NOT USE this form for utility component plans.

Summary of Drainage														
Pay Item Number	Label	Pay Item Description	Units of Measure	Quantity		Total Quantity		Location					Design Notes	Construction Remarks
				P	F	P	F	Alignment	Begin Station	End Station	Side	Element ID		
...														
...														
...														

23. Summary of Miscellaneous Drainage Items

430: Drainage- Miscellaneous items

[Examples; Return to Summary Box List](#)

This is an optional form; it is intended for use with Miscellaneous Drainage Items or on projects with minimal drainage work, i.e. replacing broken inlet tops or moving structures to accommodate added turn lanes, etc.

Use this form ONLY when items cannot be included on Summary of Drainage Structures or Summary of Side Drain & Metered End Sections. Do NOT include in multiple locations.

Do not modify this form to duplicate Summary of Drainage Structures columns. If additional columns are needed, use Summary of Drainage Structures sheet.

For additional information of the Summary of Drainage Structures sheet, see the Plans Preparation Manual, Volume 2, Chapter 8/FDOT Design Manual 308.

Summary of Miscellaneous Drainage Items													Design Notes	Construction Remarks
Pay Item Number	Pay Item Description	Units of Measure	Quantity		Total Quantity		Location							
			P	F	P	F	Alignment	Begin Station	End Station	Side	Element ID			
...														
...														
...														

24. Summary of Railing

460, 515: Railings

[Examples; Return to Summary Box List](#)

This form is intended for use with Metal Railings.

Summary of Railing													Design Notes	Construction Remarks
Pay Item Number	Pay Item Description	Units of Measure	Quantity		Total Quantity		Location							
			P	F	P	F	Alignment	Begin Station	End Station	Side	Element ID			
...														
...														
...														

25. Summary of Curbs

520s: Curb & Gutter, Traffic Separator

[Examples; Return to Summary Box List](#)

This form is intended for use with Curb: curb and gutter, curb elements, and/or Traffic Separators.

Summary of Curbs													Design Notes	Construction Remarks
Pay Item Number	Pay Item Description	Units of Measure	Quantity		Total Quantity		Location							
			P	F	P	F	Alignment	Begin Station	End Station	Side	Element ID			
...														
...														
...														

26. Summary of Permanent Barriers, formerly "Barrier Wall" and "Concrete Barrier"

521: Concrete Barrier

[Examples; Return to Summary Box List](#)

Reviewers: Either table description is acceptable through June 2020 lettings; projects let July 2020 and later must use new table.

This form is intended for use with Permanent Barrier. Gravity Walls should use Summary of Walls.

Summary of Permanent Barriers													Design Notes	Construction Remarks
Pay Item Number	Pay Item Description	Units of Measure	Quantity		Total Quantity		Location							
			P	F	P	F	Alignment	Begin Station	End Station	Side	Element ID			
...														
...														
...														

27. Summary of Permanent Driveways

334 or 522: Permanent Driveways

[Examples; Return to Summary Box List](#)

Summary of Ditch Pavement													
Pay Item Number	Pay Item Description	Units of Measure	Quantity		Total Quantity		Location					Design Notes	Construction Remarks
			P	F	P	F	Alignment	Begin Station	End Station	Side	Element ID		

30. Summary of Walls

400, 534, etc.

[Examples; Return to Summary Box List](#)

This form is intended for use with Noise Walls, MSE walls, Perimeter Walls, Gravity Walls, and Retaining Walls. Barrier Walls should be included on the Summary of Permanent Barrier Walls .

Sheet piling associated with a structure is shown on the Summary of Structure Quantities. Sheet piling not associated with a structure is shown on the Summary of Walls.

Do NOT include rails on this summary box. Use the separate Summary of Railing.

Summary of Walls													
Pay Item Number	Pay Item Description	Units of Measure	Quantity		Total Quantity		Location					Design Notes	Construction Remarks
			P	F	P	F	Wall No.	Alignment	Begin Station	End Station	Side		

31. Summary of Guardrail

536: Guardrail

[Examples; Return to Summary Box List](#)

This form is intended for use with Guardrail. Refer to pay item details for use with Thrie Beam guardrail. For removal of Guardrail, add a column to this summary box for 536-73.

Summary of Guardrail													
Pay Item Number	Pay Item Description	Units of Measure	Quantity		Total Quantity		Location					Design Notes	Construction Remarks
			P	F	P	F	Alignment	Begin Station	End Station	Side	Element ID		

xx. Summary of Cable Barrier (Pending)

540: Cable Barrier (also Developmental Item 904-540-A)

[Examples; Return to Summary Box List](#)

See Roadway Design Bulletin/Instructions for Developmental Design Standard/ Developmental Standard Plans Instructions for required table.

32. Summary of Permanent Crash Cushions

544: Crash Cushions

[Examples; Return to Summary Box List](#)

NOTE: New summary box, in accordance with SPI 544-001, will be available for projects let July 2019 and later in the CADD software.

This form is intended for use with Permanent Crash Cushions. Details must be provided for each location.

Summary of Permanent Crash Cushions															
Pay Item Number	Pay Item Description	Units of Measure	Length Restriction (FT)	Width of Barrier (IN)	Quantity		Total Quantity		Location					Design Notes	Construction Remarks
					P	F	P	F	Alignment	Begin Station	End Station	Side	Element ID		
...															
...															
...															

33. Summary of Fencing

550: Fencing

[Examples; Return to Summary Box List](#)

This form is intended for use with all types of Fencing. Summarize quantities by location.

Temporary fencing is incidental to permanent fencing. See the specification and additional information for 550-10-xx for additional information.

Summary of Fencing														
Pay Item Number	Pay Item Description	Units of Measure	Quantity		Total Quantity		Location					Design Notes	Construction Remarks	
			P	F	P	F	Alignment	Begin Station	End Station	Side	Element ID			
...														
...														
...														

34. Summary of Performance Turf

570, 571: Turf

[Examples; Return to Summary Box List](#)

This form is intended for use with both "Performance Turf" and "Performance Turf-Sod", as well as the Prepared Soil Layer.

When applicable, include a row for performance turf: "Subtotal from Summary of Drainage Structures".

Prepared Soil Layer valid through June 2019 lettings. Refer to 570- items for details.

Summary of Performance Turf															
Pay Item Number	Pay Item Description	Units of Measure	Length (FT)	Width (FT)	Quantity		Total Quantity		Location					Design Notes	Construction Remarks
					P	F	P	F	Alignment	Begin Station	End Station	Side	Element ID		
...															
...															
...															

35. Summary of Traffic Monitoring Site Items

695: Traffic Monitoring

[Examples; Return to Summary Box List](#)

This form is ONLY intended for use with Transportation Statistic Office's Traffic Monitoring Sites. For Traffic Ops or MCSAW Traffic Monitoring Sites, refer to the correct 600-series or 700-series pay items for documentation.

Summary of Traffic Monitoring Site Items													
Pay Item Number	Pay Item Description	Units of Measure	Quantity		Total Quantity		Location					Design Notes	Construction Remarks
			P	F	P	F	Site No.	Alignment	Begin Station	End Station	Side		
...													
...													
...													

36 Summary of Utilities

U1000: Utility Work

Examples; Return to Summary Box List

This form is intended for use with Utility Work.

Summary of Utility Items													
Pay Item Number	Pay Item Description	Units of Measure	Quantity		Total Quantity		Location					Design Notes	Construction Remarks
			P	F	P	F	Alignment	Begin Station	End Station	Side	Element ID		
...													
...													
...													

37. Summary of Structures, Bridge xxxxxx

400s: Structures

Examples; Return to Summary Box List

This form is intended for use with 400s: substructure or superstructure items, as well as related bridge items. It is normally included in the structures component plans. See 8-3 above.

Incidental quantities that would normally be shown on another component (i.e. signals and gates for movable bridge) may be shown on the Summary of Structure Quantities, when the other components are not included in the plan set.

Retaining Walls and Gravity Walls should be shown on the Summary of Walls. Refer to the Structures Detailing Manual for additional guidance.

Barrier Walls should be shown on the Summary of Permanent Barrier Walls.

Sheet piling associated with a structure is shown on the Summary of Structure Quantities. Sheet piling not associated with a structure is shown on the Summary of Walls.

Summary of Structure Quantities													
Section	Pay Item Number	Pay Item Description	Units of Measure	Quantity		Total Quantity		Secondary Quantity			Location Location Description	Design Notes	Construction Remarks
				P	F	P	F	Units	P	F			
...													
...													
...													

38. Summary of Landscaping

580: Landscape Items

Examples; Return to Summary Box List

This form is intended for use with Landscape Items.

Summarize items by pay item and location. For small/large plant pay items, include

plant names and sizes. Note all incidental items to be included. For irrigation system, include pipe sizes and lengths, as well as sprinklers and other fixtures.

Summary of Landscape Items															
Pay Item Number	Label	Pay Item Description	Max. Maint. Size	Units of Measure	Quantity		Total Quantity		Secondary Quantity			Location		Design Notes	Construction Remarks
					P	F	P	F	Units	P	F	Site No.	Location Description		
...															
...															
...															

39. Summary of Signalization

600s: Signals

Examples; Return to Summary Box List

This form is intended for use with Signals and/or ITS Items

Summarize items by pay item and location.

Note: See conduit pay items for additional required plan details.

Summary of Signalization Items												
Pay Item Number	Pay Item Description	Units of Measure	Quantity		Total Quantity		Location				Design Notes	Construction Remarks
			P	F	P	F	Alignment	Begin Station	End Station	Side		
...												
...												
...												

40. Summary of Intelligent Transportation System (ITS)

600s: Signals

Examples; Return to Summary Box List

This form is intended for use with ITS Items. This form may be used with a Summary of Signalization. If combining ITS and Signalization items, use Summary of Signalization.

Summarize items by pay item and location.

Note: See conduit pay items for additional required plan details.

Summary of Intelligent Transportation Systems Items												
Pay Item Number	Pay Item Description	Units of Measure	Quantity		Total Quantity		Location				Design Notes	Construction Remarks
			P	F	P	F	Alignment	Begin Station	End Station	Side		
...												
...												
...												

41. Summary of Signing and Pavement Marking

700s: Signing

Examples; Return to Summary Box List

This form is intended for use with Signing and Pavement Marking Items

Summarize items by pay item and location. See pay item 710-90, for updated guidance; details for this LS pay item will not be shown on the summary table.

Summary of Signing and Pavement Marking													
Pay Item Number	Pay Item Description	Units of Measure	Quantity		Total Quantity		Location					Design Notes	Construction Remarks
			P	F	P	F	Alignment	Begin Station	End Station	Side	Element ID		
...													
...													
...													

42. Summary of Lighting

715: Lighting

Examples; Return to Summary Box List

This form is intended for use with Lighting Items.

Summarize items by pay item and location.

Note: See conduit pay items for additional required plan details.

Summary of Lighting Items													
Pay Item Number	Pay Item Description	Units of Measure	Quantity		Total Quantity		Location					Design Notes	Construction Remarks
			P	F	P	F	Alignment	Begin Station	End Station	Side	Element ID		
...													
...													
...													

8.5 Tabulation of Quantities

Tabulation sheets in the plans are no longer used with the Estimated Quantities Report.

8.6 Pay Items with No Form Required

Maintenance Item- No Form Required

000: Maintenance

NO BOX OR FORM: Maintenance pay items do not require any specific form or summary box.

NA: No applicable form/Form not needed

000: No applicable form

NO BOX OR FORM: DO NOT BID and "special" pay items do not require any summary box or form.

8.7 Lump Sum Contracts

Projects or Contracts using pay item 999-2 will continue to require detailed quantities, by location, for work shown in the plans. Complete the summary boxes or tabulation sheet(s), similar to traditional pay item projects. Do not include the total quantity.

For example, Roadway guardrail is summarized by location from station A to B as 250', station C to D as 300', and station E to F as 500'; do not provide pay item number 536-1-1 or the total quantity.

Pay item numbers are not needed on Summary Boxes or Tabulation sheets for Lump Sum Contracts, but may be used to describe work to be completed. When pay items are included, a note is added to the Summary of Pay Items sheet, per the Plans Preparation Manual/FDOT Design Manual 140:

999-2 Lump Sum Contract: All other Pay Item numbers shown in the Contract Plans are provided only for the purpose of describing the work to be performed.

Pay item descriptions are found in the Department's Basis of Estimates Manual."

The above note should be used once. Do not repeat the note on any SQ sheets.

The 999-2 pay item is not shown on a Summary Box.

8.8 Pay Item Request Form

PAY ITEM REQUEST

600-000-02

Note: This form is optional; required information may be sent via e-mail, per Chapter 6. This form is used by designers and consultants when a project requires the use of a pay item that is not defined in the pay item structure. Refer to Chapter 6 for more details.

Chapter 8 Revision History-

5-5-21: Updated Summary of Signing and Pavement Marking: Updated requirements for 710-90- Final Surface Markings, LS, per pay item details.

2-2-21: Updated Summary Table titles and order, to coordinate with the latest CADD release. Ongoing coordination with the CADD Office.

11-1-20: Updated header dates for 2021 edition. Separate "Summary Table" information for FDM 2121 projects in this file. Instructions for "Summary Boxes", valid for FDM 2020 projects, are in a separate Chapter 8 posting.

1-24-20: Updated Summary Box numbering. Added Summary of Special Detours.

11-1-19: Updated header dates for 2020 edition. Noted pending change for Special Detours.

11-1-18: Updated header dates for 2019 edition. Added Summary of Temporary Highway Lighting. Added Summary of Pedestrian Special Detours, Summary of Pedestrian Channelization Devices. Renumbered summary boxes.

2-20-18: Expanded 8-1 to clarify limitations for custom summary boxes.

8-1, Expanded information regarding use of the Design Notes Column.

8-3, List of Summary Boxes- added Summary of Temporary Longitudinal Channelization Devices. Renumbered remaining summary boxes.

Summary of Lump Sum Items- added text to require summary of quantities based on secondary units.

Summary of Temp Traffic Control...- Added text to require whole numbers for EA and ED items, to prevent "reverse calculation" of quantities. Also clarified summary of MOT and final surface paint.

Summary of Temp Signalization- Added text to allow/recommend design notes column to identify intersections.

Summary of Temporary Longitudinal Channelization Devices- new summary box added.

Summary of Permanent Barriers (formerly Barrier Wall)- Updated title based on specification and standard index terminology change.

8-3.3 Added text for plans with multiple projects.

Throughout chapter: for existing PPM references added FDM references.

11-1-17: Updated header dates for 2018 edition. Removed introductory text for Summary Box implementation.

7-6-17: Minor updates:

- Clarified text for roadway pay Items on projects without Roadway component plans.
- Added text to clarify contingency items vs. overruns/adjustments.
- Summary of Lump Sum Items: Clarified usage note.
- Summary of Earthwork: Added guidance for pay items with SY units.
- Summary of Sidewalk: Deleted note for removal of sidewalk. See details for 522-items.

4-11-17: Added note to prohibit custom/project specific summary boxes.

2-2-17: Added notes for Monitor Existing Structures. Added instructions and example for Temporary Traffic Control Devices with different durations within a phase.

11-1-16: Updated header dates for 2017 edition.

- Summary of Clearing and Grubbing & Removal Items: Updated title, replaced graphic.
- Summary of General Items: removed old note.
- Summary of Box Culverts: Clarified instructions for bridge culverts.
- Summary of Performance Turf: Removed note regarding Temporary Sod. Future guidance pending.
- Summary of Traffic Monitoring Site Items: added graphic.
- Examples: Added text to clarify some of the correct/incorrect features.

6-8-16: NO policy or instruction changes were made. Corrected title of “Traffic Monitoring Site”. Updated examples. Added Landscape Soil details.

1-28-16: Updated entire Chapter for 2016 edition.

- Header: Updated header dates.
- 8-1: Expanded 3rd paragraph to include calculation note.
- 8-2: Clarified that empty columns/rows do not need to be deleted. Added reminder to keep Construction notes column reserved for construction use (not used by designer). Added note to restrict added subtotals.
- 8-3: Clarified sheet numbering. Updated PPM reference. Converted list to table. Added hyperlinks to sample box and examples.
- 8-4: Added “and Instructions” to article heading. Added note regarding examples.
- 8-5 through 8-8: Corrected article numbering.
- 8-5: Expanded text to clarify calculations. Added PPM reference for sheet numbering.
- Summary of General Items: updated guidance. Removed reference to Traffic Monitoring due to new summary box.
- Summary of Special Detour Quantities: Summary Box removed; no longer valid.
- Summary of Monitor Existing Structures: New Summary Box, per bulletins and 2016 PPM. Note change from “Protection of Existing Structures” to “Monitor Existing Structures”.
- Summary of Removal Items: Clarified note for LS item.
- Summary of Geotechnical Items: Clarified note for specification reference.

- Summary of Turnouts: Clarified guidance for showing surface course.
- Summary of Pavement: Clarified guidance for driveways and overbuild.
- Summary of Misc Asphalt Pavement: Removed obsolete note.
- Summary of Sidedrain & MES: updated guidance for Sod/Turf, added reference to PPM, and added note for updated summary box.
- Summary of Sidewalk & Detectable Warnings: Clarified guidance for driveways.
- Summary of Permanent Driveways: Clarified guidance for asphalt driveways.
- Summary of Traffic Monitoring Items: Sample summary box is pending.
- Added Examples & links for all summary boxes. Additional populated examples will be added as they become available.
- Landscape tabulation of Quantities: This tabulation sheet may include the plant

8-20-15: Added Summary Box Examples to end of chapter. Added note above 8.1 Introduction. Formatted 8-3 table for Summary Box Order, to include hyperlinks within chapter to instructions and examples for each summary box.

8-6-15: Added text to 8.1 Introduction, to address 5 day language for response to quantity questions from Construction. This text was previously located in the *Computation Methods for Design, Construction, and Final Estimates Handbook*. Added text to Summary of Miscellaneous Drainage Items, Summary of Side Drain and Mitered End Sections, Summary of Trench Drain, Summary of Underdrain, and Summary of French Drain, to clarify usage and avoid duplication of quantities.

4-28-15: Added details to Summary of Pavement, to require overbuild quantities to be shown separately from structural quantities. Removed reference to Field Office from Summary of General Items. Removed reference to Special Detours from Summary of Temporary Traffic Control Plan Items. Added note to keep Summary of Temporary Signalization & Detection separate from Summary of Temporary Traffic Control Devices.

2-20-15: Updated note for Summary of Permanent Barrier Wall, to address 521-8 items. Added Summary of Temporary Signalization to list in 8-3. Marked Summary of Special Detour with strikethrough, due to Estimates Bulletin 14-06. Added Summary of Cable Barrier (Pending).

2-10-15: Updated Summary of Structure Quantities and Summary of Walls with note for Sheet Piling. Replaced Summary of Drainage Structures box. Updated note for Special Detour, per Estimates Bulletin 14-06. Updated Summary of Miscellaneous Asphalt; removed column for Temporary Sidewalk.

12-30-14: Updated header dates for 2015 edition. Removed contact information from header. Updated note in red at top of chapter to refer to revision history. Added text to 8.2 for summary box totals to be shown on the first page, per the CADD templates. Added text to 8.3 for multiple projects let under one contract.

10-20-14: Added note to Summary of Guardrail for removal pay item.

10-17-14: Updated all graphics for the latest Summary Boxes.

10-13-14: Added rumble strips to Summary of Pavement.

9-24-14: Temporary Signalization- updated detail. When the new box with total is used, do not include the total on the Summary of Temporary Traffic Control Plan Items. If the old box is used, the total remains on the Summary of Temporary Traffic Control Plan Items.

9-19-14: Updated details for Summary Boxes, as follows:

- Temporary Traffic Control Plan Items: Corrected items, based on new boxes. Added notes to limit format of summary box. Added note for 710-90 and temporary items.
- Added Summary of Temporary Signalization and Detection.
- Litter and Mowing: added notes for areas identified in the plans.
- Miscellaneous Asphalt Pavement: updated notes to remove temporary asphalt and temporary sidewalk.
- Utility Adjustments: updated notes to clarify items to be included.
- Sidedrain and Mitered End Sections: clarified that pay item numbers are not shown, and are not to be added by designer.
- Sidewalk & Detectable Warnings: clarified note for location/area ID.
- Sidewalk, Curb, and Ditch Pavement: added note for removal work. Permanent Crash Cushions: Removed note- cadd file is current.
- Fencing: Added note for temporary fencing.
- Performance Turf: Added note for temp sodding.

9-19-14: Update 8.2 to clarify when columns or rows may be added or deleted.

9-17-14: Updated 8.3 to clarify that non-standard tables may not be included with SQ sheets. Changed TABQLT to TABQXX. Added Summary of Temp Signals to list of Summary Boxes.

9-16-14: Updated 8.6 to clarify note location on the Summary of Pay Items.

8-28-14: Updated Special Detour to include Temporary Bridge information.

8-12-14: Updated introductory information to remove "Draft" statement.

8-7-14: Updated instructions for Lump Sum projects, to allow pay item numbers, with notice.

4-18-14: Updated instructions based on user comments.

3-17-14: Added instructions for projects with no roadway component.

2-26-14: Updated text with additional notes and guidance, per CADD webinar training.

3-6-13: Complete re-write of Chapter, due to change from Comp Book to Plan Summary Boxes. Chapter title changed from "Forms" to "Plan Summary Boxes". Refer to Estimates Bulletin 13-09 for details.

2-20-13: Updated header dates for 2013 edition.

11-23-11: Updated header dates for 2012 edition.

7-29-11: Updated web link for Construction forms.

5-19-11: Updated web link for Computation Methods For Design, Construction & Final Estimates Handbook.

11-10-10: Updated header dates for 2011 edition. Updated Construction Office web links. Changed font size from 10 pt to 12 pt.

11-8-10: Inserted 8.5 to better explain Forms and Documentation. Renumbered Estimates Forms from 8.5 to 8.6.

10-30-09: Updated header dates for 2010 edition.

10-6-08: Updated header dates for 2009 edition.

10-6-08: Updated pay item request form information, per Chapter 6. Use of the form is optional.

5-14-08: Inserted 8.4, note from Construction and CADD Offices. Requested by Sherry Valdes, State Construction Office & Kenny Rudd, District 3 CADD Office.

Summary Table Examples

These examples are provided to show specific details from the instructions provided above (Chapter 8), as well as pay item specific instructions contained in the details section of various pay items (Chapters 11-20). **The examples are not intended to cover all possible situations.** Please consider the notes associated with the correct/incorrect examples.

Additional examples of correct/incorrect summary tables are welcome and appreciated. Submit files to: FDOT-payitems@dot.state.fl.us

Miscellaneous Errors:

Do NOT move or delete the total columns or rows. The total for a pay item should be found on either the FIRST row when the items total across, or the FIRST summary box when the items total at the bottom.

Construction Requirements:

When noting plans revisions, DO NOT use the areas reserved for construction's use, including the Construction Remarks column. In accordance with CADD requirements, do NOT reduce the summary box or font size; this makes it difficult to note construction changes.

General Notes:

The hyphen in the pay item is acceptable; however, when used, it needs to be consistent throughout the summary boxes. Blank rows used to separate pay item groups, locations, etc. may be helpful for easier reading; this is a designer option.

Summary Tables and Estimated Quantities Report:

The CADD Office has provided new tools for automating much of the quantity and summary table information. The format of automated tables should NOT be modified, as this may impact the generation of the Estimated Quantities Report. Changes from the existing box to new table will be noted within the instructions above.

1. Summary of General Items

[Instructions](#); [Return to Summary Box List](#)

Correct:

Incorrect:

Location information is missing.

SUMMARY OF GENERAL ITEMS						
PAY ITEM NO.	PAY ITEM DESCRIPTION	LOCATION	UNIT	QUANTITY		CONSTRUCTION REMARKS
				P	F	
0519 78	BOLLARDS		EA	70		
	FIXED - 30					
	REMOVABLE - 9					
	WOODEN - 31					

Do not use the Summary of General Items for component items that belong on a Tabulation Sheet (Signalization, Signing and Pavement Markings, Lighting, etc.)

102-3 belongs on Summary of Temporary Driveways. It does not go with the General Items.

SUMMARY OF GENERAL ITEMS						
PAY ITEM NO.	PAY ITEM DESCRIPTION	UNITS	QUANTITY		DESIGN NOTES	CONSTRUCTION REMARKS
			P	F		
102-3	COMMERCIAL MATERIAL FOR DRIVEWAY MAINTENANCE	CY	7		FOR TEMP. DRIVEWAY ACCESS	
					AT STA. 110+94.33 TO STA. 111+29.33	

2. Summary of Lump Sum Items

[Instructions](#); [Return to Summary Box List](#)

Correct: This summary box is appropriate for lump sum pay items that do not require location information/station, secondary units, or arealD/dimensions.

SUMMARY OF LUMP SUM ITEMS					
PAY ITEM NO.	PAY ITEM DESCRIPTION	QUANTITY		DESIGN NOTES	CONSTRUCTION REMARKS
		P	F		
0101-1	MOBILIZATION	1			

Incorrect:

102-1 belongs on the Summary of Temporary Traffic Control Plan Items

110-1-1 belongs on the Summary of Clearing and Grubbing & Removal Items. Location and quantities for secondary units are needed.

SUMMARY OF LUMP SUM ITEMS								
PAY ITEM NO.	UNIT	SECONDARY UNIT	AREA ID	PAY ITEM DESCRIPTION	QUANTITY		TOTAL	CONSTRUCTION REMARKS
					P	F		
0101 1	LS			MOBILIZATION	1		1	
0102 1	LS			MAINTENANCE OF TRAFFIC	1		1	
0110 1 1	LS	AC	153189	CLEARING & GRUBBING	1/ (30.05AC)		1/ (30.05AC)	

3. Summary of Temporary Traffic Control Plan Items (TTCP)

[Instructions; Return to Summary Box List](#)

Correct (New table format):

Correct (Old format):

102-78 Temporary Retroreflective Pavement Markers used for MOT are included in this summary box.

See specification changes effective July 2021; payment is separated for Type B and Type D RPMs.

102-14 Traffic Control Officer (contractor's use for MOT) is included by phase in this summary box.

SUMMARY OF TEMPORARY TRAFFIC CONTROL PLAN ITEMS												
PAY ITEM NO.	PAY ITEM DESCRIPTION	UNIT	PHASE I			PHASE II			TOTAL		DESIGN NOTES	CONSTRUCTION REMARKS
			DURATION	QUANTITY	TOTAL	DURATION	QUANTITY	TOTAL	P	F		
			DAYS	P	P	DAYS	P	P	P	F		
0102-1	MAINTENANCE OF TRAFFIC	LS							1		500 CONSTRUCTION DAYS	
0102-2-1	SPECIAL DETOUR - DIVERSION 1	LS		1	1				1			
0102-2-2	SPECIAL DETOUR - DIVERSION 2	LS					1	1	1			
0102-14	TRAFFIC CONTROL OFFICER	MH			2			2	4			
0102-80	WORK ZONE SIGN	ED	300	23	6,900	147	23	3,381	10,281			
0102-61	BUSINESS SIGN	ED	300	3	900	147	3	441	1,341			
0102-71-11	TEMPORARY BARRIER WALL	LF		564	564				564			
0102-74-1	CHANNELIZING DEVICE, TYPES I, II, DI, VP, Drum, OR LCD	ED	300	560	168,000	147	437	64,239	232,239			
0102-74-2	CHANNELIZING DEVICE, TYPE III, 6"	ED	300	10	3,000	147	10	1,470	4,470			
0102-76	ARROW BOARD / ADVANCE WARNING ARROW PANEL	ED	300	2	600	147	2	294	894			
0102-78	TEMPORARY RETROREFLECTIVE PAVEMENT MARKER	EA		1187	1,187		649	649	1,836			
0102-99	PORTABLE CHANGEABLE MESSAGE SIGN - TEMPORARY	ED	307	4	1,228	147	2	294	1,522		INCLUDES 7 DAYS PRIOR	
0102-911-2	REMOVABLE TAPE PAVEMENT MARKING - WHITE / BLACK	LF		521	521				521			
0710-11-101	PAINTED PAVEMENT MARKINGS, STD, WHITE, SOLID, 6"	NM		5,337	5,337		5,337	5,337	11			
0710-11-102	PAINTED PAVEMENT MARKINGS, STD, WHITE, SOLID 8"	GM		1,531	1,531		1,531	1,531	3			
0710-11-123	PAINTED PAVEMENT MARKINGS STD, WHITE, SOLID 12"	LF		1,636	1,636		1,636	1,636	3,272			
0710-11-124	PAINTED PAVEMENT MARKINGS, STD, WHITE, SOLID, 18"	LF		3,259	3,259		3,259	3,259	6,518			
0710-11-125	PAINTED PAVEMENT MARKINGS, STD, WHITE, SOLID, 24"	LF		1,733	1,733		1,733	1,733	3,466			
0710-11-131	PAVEMENT PAVEMENT MARKINGS, STD, WHITE, SKIP 10-30 OR 3-9 SKIP, 6" WIDE	GM		3,935	3,935		3,935	3,935	0			
0710-11-141	PAINTED PAVEMENT MARKINGS, STD, WHITE, DOTTED, GAP EXTENSION 6"	GM		2,128	2,128		2,128	2,128	4			
0710-11-160	PAINTED PAVEMENT MARKINGS, SRD, WHITE, MESSAGE OR SYMBOL	EA		23	23		23	23	46			
0710-11-170	PAINTED PAVEMENT MARKINGS, STD, WHITE, ARROWS	EA		69	69		69	69	138			
0710-11-201	PAINTED PAVEMENT MARKINGS, STD, YELLOW, SOLID, 6"	NM		5,555	5,555		5,555	5,555	11			
0710-11-224	PAINTED PAVEMENT MARKINGS, STD, YELLOW, SOLID, 18"	LF		281	281		281	281	562			
0710-11-241	PAINTED PAVEMENT MARKINGS, STD, YELLOW, DOTTED, GAP EXTENSION 6"	GM		0,131	0,131		0,131	0,131	0,262			

Always use whole numbers for "Each" and "Each Day" item quantities. Add additional rows for different durations within the phase. See below for Items needed less than the full phase duration, example with 3 devices needed for 60 days, and 2 devices needed for 30 days:

Incorrect:

Through June 2021: Do not include 706-3 Reflective Pavement Markers (RPMs) with Temporary Traffic Control Plan Items. Permanent RPMs are included with 710-90 Final Surface Markings.

Effective July 2021: Separate Payment will be made for RPMs. See pay item details of 706-3 for documenting quantities.

4. Summary of Special Detours. See bulletin for example.

[Instructions](#); [Return to Summary Box List](#)

Correct: Locations and secondary units must be shown. For quantities remaining in place for more than one phase, do not repeat location/quantity.

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6. Summary of Temporary Driveways

[Instructions](#); [Return to Summary Box List](#)

Correct (Old format): Example with location and dimensions.

SUMMARY OF TEMPORARY DRIVEWAYS							
LOCATION STA. @ C/ OF DRIVEWAY	SIDE	COMMERCIAL MATERIAL FOR DRIVEWAY MAINTENANCE				DESIGN NOTES	CONSTRUCTION REMARKS
		L FT	W FT	THK IN	CY P F		
70+53.00	RT	39.50	12.00	6.00	8.8	PHASE 1	
70+85.00	RT	40.00	12.00	6.00	8.9	PHASE 1	
72+21.00	RT	40.00	12.00	6.00	8.9	PHASE 1	
61+48.00	LT	41.00	12.00	6.00	9.1	PHASE 2	
62+97.00	LT	41.00	12.00	6.00	9.1	PHASE 2	
66+05.00	LT	41.00	18.00	6.00	13.7	PHASE 2	
71+56.00	LT	41.50	12.00	6.00	9.2	PHASE 2	
SUB-TOTAL					68		
TOTAL					68		

Example with Location, Area ID, and Thickness

SUMMARY OF TEMPORARY DRIVEWAYS							
LOCATION STA. @ C/ OF DRIVEWAY	SIDE	AREA ID	COMMERCIAL MATERIAL FOR DRIVEWAY MAINTENANCE			DESIGN NOTES	CONSTRUCTION REMARKS
			THK IN	0102 3 CY P F			
1011+00.00	LT	290406	2.00	7.76		PHASE 1	
1014+00.00	LT	290392	2.00	3.34		PHASE 1	
1014+00.00	LT	290399	2.00	3.10		PHASE 1	
1018+60.00	RT	290619	2.00	2.66		PHASE 1	
1019+65.00	RT	290636	2.00	2.96		PHASE 1	
1020+25.00	RT	290656	2.00	2.07		PHASE 1	
291+62.00	LT/RT	290898	2.00	6.10		PHASE 3	
294+75.00	LT/RT	290842	2.00	4.40		PHASE 3	
1016+50.00	LT/RT	290820	2.00	3.58		PHASE 3	
1018+60.00	LT/RT	290803	2.00	1.62		PHASE 3	
1019+65.00	LT/RT	290831	2.00	2.53		PHASE 3	
1020+25.00	LT/RT	290775	2.00	2.29		PHASE 3	
SUB-TOTAL					42.4		
TOTAL					42		

Incorrect:

7. Summary of Pedestrian Longitudinal Channelizing Devices

[Instructions](#); [Return to Summary Box List](#)

Correct (Old format): Indicate duration when remaining for more than one phase. See Pedestrian Special Detour when walking surface is needed.

SUMMARY OF PEDESTRIAN LONGITUDINAL CHANNELIZING DEVICES						
CONST. PHASE	LOCATION STA. TO STA.	SIDE	QUANTITY		DESIGN NOTES	CONSTRUCTION REMARKS
			0102 74 7			
	LF					
			P	F		
1	160+00 TO 161+50	Lt.	150		REMAINING IN PLACE FROM PHASE 1 THRU PHASE 3	
1	161+50 TO 165+00	Rt.	350			
1	163+00 TO 164+00	Lt.	100			
1	166+00 TO 166+00	Lt.	5		SIDEWALK CLOSURE	
2	164+00 TO 165+00	Rt.	100		REMAINING IN PLACE FROM PHASE 2 THRU PHASE 3	
3	164+00 TO 165+00	Lt.	200		100' x 2 SIDES OF TEMPORARY WALKWAY	
3	166+00 TO 166+00	Rt.	5		SIDEWALK CLOSURE	
		TOTAL	910			

Incorrect:

8. Summary of Temporary Crash Cushions

[Instructions](#); [Return to Summary Box List](#)

Correct: Do not remove any columns from this table; **all design information is required.** If length restriction does not apply, use N/A; do not remove column.

Incorrect:

SUMMARY OF TEMPORARY CRASH CUSHIONS											
TTC PHASE	STATION	OFFSET (FT)	SIDE	WORK ZONE SPEED (MPH)	TEST LEVEL (TL-2 OR TL-3)	WIDTH OF HAZARD (IN)	LENGTH RESTRICTION (FT)	TEMPORARY CRASH CUSHION		DESIGN NOTES	CONSTRUCTION REMARKS
								0102	89 1		
								P	F		
I	1371+65.30	8.50	LT.	50	TL-3	24.00	N/A	1			
I	1374+00.00	35.64	LT.	50	TL-3	24.00	N/A	1			
I	100+49.38	5.50	RT.	40/50	TL-3	24.00	N/A	1			
I	1712+92.00	90.86	RT.	70	TL-3	24.00	N/A	1			
I	85+80.00	8.36	LT.	50	TL-3	24.00	N/A	1		RAMP A-1	
I	85+80.00	21.00	RT.	50	TL-3	24.00	N/A	1		RAMP A-1	
I	418+40.00	8.29	LT.	50	TL-3	24.00	N/A	1		RAMP D-1	
I	418+40.00	21.69	RT.	50	TL-3	24.00	N/A	1		RAMP D-1	
I	SLIGH AVE.	SEE PLANS	LT.	40	TL-2	24.00	N/A	1			
I	SLIGH AVE.	SEE PLANS	RT.	40	TL-2	24.00	N/A	1			
I	SLIGH AVE.	SEE PLANS	LT.	40	TL-2	24.00	N/A	1			
I	SLIGH AVE.	SEE PLANS	RT.	40	TL-2	24.00	N/A	1			
II	1372+21.12	19.79	LT.	50	TL-3	24.00	N/A	1			
III	1210+00.00	17.00	RT.	40/50	TL-3	24.00	N/A	1			
SUB-TOTAL:								14			
TOTAL:								14			

9. Summary of Temporary Signalization & Detection

[Instructions](#); [Return to Summary Box List](#)

Correct: This form is NOT limited to “Temporary Signals”. Quantity based on maintaining existing intersections for the full duration of project. See additional information under pay item 102-104- and 102-107-1. Design Notes column may be used to identify location or intersection location(s).

SUMMARY OF TEMPORARY SIGNALIZATION & DETECTION															
PHASE	DURATION	0102104						0102107 1						DESIGN NOTES	CONSTRUCTION REMARKS
		TEMPORARY SIGNALS & MAINTENANCE OF INTERSECTION - EACH DAY						TEMPORARY TRAFFIC DETECTION & MAINTENANCE OF INTERSECTION - EACH DAY							
		EXISTING			TEMPORARY			EXISTING			TEMPORARY/NEW				
		DAYS	#	P	F	#	P	F	#	P	F	#	P		
1	91	3	273					3	273						
2	190	3	570					3	570						
3	152	3	456					3	456						
4	31	3	93					3	93						
SUB-TOTAL			1392						1392						
		TOTAL		1392			TOTAL		1392						

Incorrect:

Quantities must be summarized by phase, or indicate “all phases”. Missing Construction Remarks column.

10. Summary of Erosion and Sediment Control Devices

[Instructions](#); [Return to Summary Box List](#)

Correct (Old Box): When a Summary Box continues on multiple sheets, totals for ALL columns are to be shown on the FIRST sheet of the series.

SUMMARY OF EROSION AND SEDIMENT CONTROL DEVICES														
LOCATION	SIDE	AREA ID	ARTIFICIAL COVERINGS / ROLLED EROSION CONTROL		SEDIMENT BARRIER		FLOATING TURBIDITY BARRIER		SOIL TRACKING PREVENTION DEVICE		INLET PROTECTION SYSTEM		DESIGN NOTES	CONSTRUCTION REMARKS
			104 1	0104 10 3	0104 11	0104 15	0104 18							
STA. TO STA.			LF		LF		EA		EA					
	P	F	P	F	P	F	P	F	P	F				
1401+69.67 R2 to 1403+76.66 R2	RT				252.7									
1401+78.80 R2 to 1403+69.32 R2	LT				243.1									
1404+01.92 R2 to 1407+29.79 R2	RT				418.0									
1404+07.29 R2 to 1411+03.51 R2	LT				755.3									
1407+68.94 R2 to 1411+02.14 R2	RT				414.2									
1410+74.82 R2 to 1410+78.56 R2	RT				4.9									
1411+39.97 R2 to 1414+72.72 R2	RT				406.6									
1411+42.18 R2 to 1418+30.39 R2	LT				830.8									
1415+06.38 R2 to 1418+28.18 R2	RT				375.8									
1418+74.44 R2 to 1421+44.39 R2	RT				449.0									
1418+80.65 R2 to 1421+32.57 R2	LT				390.2									
1418+81.13 R2 to 1418+81.64 R2	LT				15.0									
1418+93.50 R2 to 1419+00.00 R2	RT				6.7									
1422+44.37 R2 to 1428+25.73 R2	RT				756.9									
1422+47.14 R2 to 1436+85.49 R3	LT				1483.9									
1428+50.18 R2 to 1436+81.28 R3	RT				1024.9									
1437+43.12 R3 to 1441+33.27 R3	LT				404.1									
1437+49.84 R3 to 1441+42.10 R3	RT				448.3									
1441+72.52 R3 to 1445+23.59 R3	LT				373.6									
1441+76.60 R3 to 1445+21.40 R3	RT				375.0									
1445+62.91 R3 to 1452+80.15 R3	LT				697.2									
1445+72.40 R3 to 1448+40.49 R3	RT				293.9									
1448+81.31 R3 to 1451+00.00 R3	RT				251.8									
1451+57.58 R3 to 1455+83.05 R3	RT				416.0									
1453+18.60 R3 to 1461+92.11 R3	LT				902.7									
1455+99.20 R3 to 1461+76.64 R3	RT				618.8									
1425+44.51 R2 to 1426+37.18 R2	RT							92.8						
1425+95.55 R2 to 1426+58.44 R2	LT							67.0						
1447+52.17 R3 to 1447+95.65 R3	RT							45.7						
1447+98.03 R3 to 1448+52.40 R3	LT							51.8						
1407+31.18 R2 to 1407+33.22 R2	RT												I	
1407+52.74 R2 to 1407+54.78 R2	LT												I	
1407+64.39 R2 to 1407+66.43 R2	RT												I	
1411+01.08 R2 to 1411+03.12 R2	RT												I	
1411+33.99 R2 to 1411+36.03 R2	RT												I	
1411+35.28 R2 to 1411+37.33 R2	LT												I	
1414+70.92 R2 to 1414+72.97 R2	RT												I	
1414+90.54 R2 to 1414+92.59 R2	LT												I	
1415+04.03 R2 to 1415+06.08 R2	RT												I	
1415+04.74 R2 to 1415+06.78 R2	LT/RT												I	
1418+05.39 R2 to 1418+07.43 R2	LT/RT												I	
1418+31.29 R2 to 1418+33.33 R2	RT												I	
1418+65.40 R2 to 1418+67.44 R2	RT												I	
1419+57.24 R2 to 1419+59.29 R2	LT												I	
1420+58.92 R2 to 1420+60.96 R2	LT												I	
SUB-TOTAL:			*349		12609.4			257.3		*2		15	* SEE PAY ITEM NOTES FOR BASIS OF CALCULATIONS	
PLAN TOTAL:			349		12609			257		2		31		
FINAL TOTAL:														

Incorrect:

Do not add pay item notes for replacement. Per the specification, no separate payment is made for maintenance or replacement.

3. PAY ITEM 104-10-3 (SEDIMENT BARRIER)
INCLUDES ALL COSTS FOR RESTAKING AND MAINTENANCE OF FENCE; AND IS BASED ON
REPLACEMENT EVERY 12 MONTHS.

Do not specify type of barrier; per the specification, this is an option open to the contractor. Totals are to be shown on the FIRST sheet of a series. The incorrect example below is for a “cont.” sheet in the series and should NOT include the series total.

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SUMMARY OF EROSION AND SEDIMENT CONTROL DEVICES (CONT.)											
LOCATION	SIDE	SEDIMENT BARRIER		FLOATING TURBIDITY BARRIER		SOIL TRACKING PREVENTION DEVICE		INLET PROTECTION SYSTEM		DESIGN NOTES	
		0104 10 2		0104 11		0104 15		0104 18			
STA. TO STA.		LF		LF		EA		EA			
		P	F	P	F	P	F	P	F		
455+77.34	10	453+77.35	LT.	61.9							SYNTHETIC BALES
458+75.84	10	458+77.08	LT.	62.8							SYNTHETIC BALES
458+87.25	10	458+87.78	RT.	82.8							SYNTHETIC BALES
460+01.33	10	460+02.05	LT.	62.8							SYNTHETIC BALES
462+37.50	10	462+37.10	LT.	80.5							SYNTHETIC BALES
465+00.90	10	465+02.63	LT.	82.8							SYNTHETIC BALES
466+86.95	10	466+95.34	LT./RT.	62.8							SYNTHETIC BALES
469+52.39	10	469+58.63	LT.	62.8							SYNTHETIC BALES
470+47.70	10	470+52.36	LT.	82.8							SYNTHETIC BALES
488+18.78	10	488+23.73	LT.	61.2							SYNTHETIC BALES
493+29.31	10	493+30.09	RT.	65.8							SYNTHETIC BALES
516+69.45	10	516+70.07	LT.	69.3							SYNTHETIC BALES
309+38.78	10	320+25.00	LT.	1137.9							STAKED SILT FENCE
321+30.00	10	3248+20.00	LT.	2654.2							STAKED SILT FENCE
322+24.85	10	348+80.00	RT.	2688.7							STAKED SILT FENCE
1348+78.98	10	1399+76.12	LT.	5089.4							STAKED SILT FENCE
349+20.00	10	400+17.40	RT.	5114.5							STAKED SILT FENCE
1402+68.23	10	1446+21.80	LT.	4479.0							STAKED SILT FENCE
403+21.69	10	439+70.58	RT.	3539.2							STAKED SILT FENCE
441+87.94	10	1445+13.28	LT./RT.	263.2							STAKED SILT FENCE
443+70.82	10	449+48.53	RT.	539.8							STAKED SILT FENCE
444+04.50	10	1447+20.28	LT./RT.	239.1							STAKED SILT FENCE
1448+74.13	10	1464+09.18	LT.	1587.0							STAKED SILT FENCE
454+73.46	10	455+32.30	RT.	120.8							STAKED SILT FENCE
459+08.86	10	461+58.73	RT.	240.2							STAKED SILT FENCE
488+22.11	10	316+78.48	LT.	2632.5							STAKED SILT FENCE
497+70.26	10	499+32.23	RT.	126.0							STAKED SILT FENCE
502+88.14	10	503+31.40	RT.	129.8							STAKED SILT FENCE
504+91.83	10	303+30.01	RT.	120.5							STAKED SILT FENCE
1402+78.44	10	1402+87.43	RT.		141.0						FLOATING TURBIDITY
1444+93.42	10	1446+37.74	LT./RT.		221.2						FLOATING TURBIDITY
1446+76.10	10	1448+03.92	LT./RT.		226.2						FLOATING TURBIDITY
440+34.32	10	442+11.90	LT./RT.		221.2						FLOATING TURBIDITY
442+88.78	10	444+13.04	LT./RT.		226.2						FLOATING TURBIDITY
311+21.19	10	488+24.15	LT./RT.			8					1 DEVICE PER WILE NB & SB
305+29.21			RT.					1			INLET PROTECTION SYSTEM
315+88.84			RT.					1			INLET PROTECTION SYSTEM
408+30.61			RT.					1			INLET PROTECTION SYSTEM
471+99.86			RT.					1			INLET PROTECTION SYSTEM
475+00.30			RT.					1			INLET PROTECTION SYSTEM
478+01.22			RT.					1			INLET PROTECTION SYSTEM
488+00.99			RT.					1			INLET PROTECTION SYSTEM
497+65.12			RT.					1			INLET PROTECTION SYSTEM
498+82.46			LT.					1			INLET PROTECTION SYSTEM
505+48.00			LT.					1			INLET PROTECTION SYSTEM
			SUB-TOTAL	31487	1036	8		10			
			FINAL PLAN	38203	1036	8		10			

11. Summary of Litter Removal and Mowing

[Instructions; Return to Summary Box List](#)

Correct:

Frequency estimated based on 30 day cycle.

Separate entry for each area. When automated, the mowing areas and quantities may follow the litter removal areas and quantities.

Use "same as phase x", when applicable.

Note: Only use "ALL" for the Const. Phase column when TCP does not affect the areas for quantities. Otherwise, ensure locations are separated by phases.

Totals are to be shown on the FIRST sheet of a series (not shown correctly below). This summary box does not appear to extend to multiple sheets.

SUMMARY OF LITTER REMOVAL AND MOWING														
CONST. PHASE	LOCATION STA. TO STA.	SIDE	DURATION (DAYS)	FREQUENCY (DAYS)	LITTER REMOVAL 0107 1				MOWING 0107 2				DESIGN NOTES	CONSTRUCTION REMARKS
					AREA ID	CYCLES	AREA		AREA ID	CYCLES	AREA			
							AC/ CYCLE	TOTAL (AC)			AC/ CYCLE	TOTAL (AC)		
ALL	27+00.00 to 29+00.00	L	90	30	17767	2	0.130	0.260						
ALL	27+00.00 to 29+00.00	R	90	30	17767	2	0.070	0.140						
ALL	30+00.00 to 31+12.20	L	90	30	17723	2	0.220	0.440						
ALL	30+00.00 to 31+12.20	R	90	30	17742	2	0.200	0.400						
ALL	27+00.00 to 29+00.00	L	90	30					17530	3	0.120	0.360		
ALL	27+00.00 to 29+00.00	R	90	30					17537	3	0.070	0.210		
ALL	30+00.00 to 31+12.20	L	90	30					17682	3	0.060	0.180		
ALL	30+00.00 to 31+12.20	R	90	30					17645	3	0.060	0.180		
ALL	30+00.00 to 31+12.20	L	90	30					17600	3	0.070	0.210		
ALL	31+00.00 to 32+00.00	R	90	30					17587	3	0.070	0.210		
ALL	32+00.00 to 33+00.00	R	90	30					17610	3	0.070	0.210		
ALL	33+00.00 to 34+00.00	L	90	30					17645	3	0.070	0.210		
ALL	34+00.00 to 35+00.00	R	90	30					17620	3	0.070	0.210		
					SUM TOTAL				SUM TOTAL					
					TOTAL				TOTAL					

Incorrect:

Each area must be separately identified, either by Area ID or Length/width/location.

Do NOT lump quantities for a phase in one row. (This was acceptable ONLY when supported by a Computation Book, prior to Summary Boxes)

Do not add footnotes to this box.

Totals are to be shown on the FIRST sheet of a series. The example below correctly shows the totals at the bottom of the sheet.

SUMMARY OF LITTER REMOVAL AND MOWING																				
CONST. PHASE	LOCATION		DURATION (DAYS)	FREQUENCY (DAYS)	LITTER REMOVAL						MOWING						DESIGN NOTES	CONSTRUCTION REMARKS		
					0107 1						0107 2									
	STA. TO STA.				AREA ID	LENGTH	WIDTH	CYCLES	AREA			AREA ID	LENGTH	WIDTH	CYCLES	AREA				
									AC/CYCLE	TOTAL (AC)						AC/CYCLE			TOTAL (AC)	
						P	F		P	F		P	F							
I	54+21.33 - 760+50.00		20	30			1	261.850	261.850				1	212.730	212.730					
II	450+00.00 - 597+00.00		420	30			14	38.910	544.740				14	46.420	649.880					
III	450+00.00 - 597+00.00		350	30			12	38.910	453.930				12	46.420	547.587					
IV	450+00.00 - 597+00.00		30	30			1	38.910	38.910				1	46.420	46.420					
								SUB-TOTAL			SUB-TOTAL			SUB-TOTAL						
								TOTAL			TOTAL			TOTAL						

THE PHASE DURATIONS SHOWN ARE NOT BASED ON PROJECT SCHEDULE AND SHOULD NOT BE USED FOR SCHEDULING PURPOSES BY THE CONTRACTOR

Separate Location column required for each of the pay items.

SUMMARY OF LITTER REMOVAL AND MOWING																						
CONST. PHASE	LOCATION		SIDE	AREA ID	LENGTH	WIDTH	DURATION (DAYS)	FREQUENCY (DAYS)	LITTER REMOVAL						MOWING						DESIGN NOTES	CONSTRUCTION REMARKS
									0107 1						0107 2							
	STA. TO STA.								CYCLES	AREA			CYCLES	AREA								
										AC/CYCLE	TOTAL (AC)			AC/CYCLE	TOTAL (AC)							
			P	F		P	F		P	F												
ALL	205+00.00 To 264+64.88					230	30	#	5.3	42.4		#	1.37	10.95								
								SUB-TOTAL			SUB-TOTAL			SUB-TOTAL								
								TOTAL			TOTAL			TOTAL								

NOTE: THE PHASE DURATIONS SHOWN ARE NOT BASED ON PROJECT SCHEDULE AND SHALL NOT BE USED FOR SCHEDULING PURPOSES BY THE CONTRACTOR.

Do NOT modify the pay item description in the header rows.

SUMMARY OF LITTER REMOVAL AND MOWING																			
CONST. PHASE	LOCATION		SIDE	DURATION (DAYS)	FREQUENCY (DAYS)	LITTER REMOVAL						MOWING						DESIGN NOTES	CONSTRUCTION REMARKS
						0107-1						0107-2							
	STA. TO STA.					CYCLES	AREA			CYCLES	AREA								
							AC/CYCLE	TOTAL (AC)			AC/CYCLE	TOTAL (AC)							
			P	F		P	F		P	F									
	429+13.59 - 456+30.95		RT	60	30	2	3.001	6.003		2	2.405	4.810							
	429+13.59 - 466+11.77		MED	60	30	2	1.965	3.930		2	1.830	3.660							
	429+58.54 - 442+46.47		LT	60	30	2	1.131	2.262		2	0.925	1.851							
	442+46.47 - 456+06.77		LT	60	30	2	1.518	3.035		2	1.208	2.416							
	456+06.77 - 466+12.11		LT	60	30	2	1.602	3.204		2	1.407	2.814							
	456+30.95 - 466+11.77		RT	60	30	2	0.971	1.942		2	0.775	1.550							
								SUB-TOTAL			SUB-TOTAL			SUB-TOTAL					
								TOTAL			TOTAL			TOTAL					

Individual locations are not shown. Areas are lumped together for left and right. Per specifications the limits are different for Litter Removal and Mowing areas.

SUMMARY OF LITTER REMOVAL AND MOWING															
CONST. PHASE	LOCATION	SIDE	AREA (SY)	DURATION (DAYS)	FREQUENCY (DAYS)	LITTER REMOVAL				MOWING				DESIGN NOTES	CONSTRUCTION REMARKS
						0107 1				0107 2					
	STA. TO STA.					CYCLES	AREA		CYCLES	AREA					
							AC / CYCLE	TOTAL (AC)		AC / CYCLE	TOTAL (AC)				
P	F	P	F												
ALL PHASES	197+00.00 TO 458+59.29	LT/RT	327888.9	1200	30	40	52.950	2118.00							
ALL PHASES	197+00.00 TO 458+59.29	LT/RT	277888.9	1200	30				40	42.770	1710.80				
SUB-TOTAL:								2118.00	SUB-TOTAL:				1710.80		
TOTAL:								2118.00 AC	TOTAL:				1710.80 AC		

Do not list the Area ID as a range. Each areaID/location must be listed in the summary box.

SUMMARY OF LITTER REMOVAL AND MOWING															
CONST. PHASE	LOCATION	SIDE	DURATION (DAYS)	FREQUENCY (DAYS)	LITTER REMOVAL				MOWING				DESIGN NOTES	CONSTRUCTION REMARKS	
					0107 1				0107 2						
	STA. TO STA.				AREA ID	CYCLES	AREA		AREA ID	CYCLES	AREA				
							AC / CYCLE	TOTAL (AC)			AC / CYCLE	TOTAL (AC)			
P	F	P	F												
ALL	248+48.96-328+95	LT/RT	160	30	41977 to 43103	6	14.300	85.800	49146 to 52760	6	5.100	30.600			
SUB-TOTAL:								85.800	SUB-TOTAL:				30.600		
TOTAL:								85.80	TOTAL:				30.60		

12. Summary of Monitor Existing Structures

[Instructions; Return to Summary Box List](#)

Correct:

The example below is correct for projects where monitoring is required; only the locations to be monitored which are outside of the specification limits are shown. The note below the summary box should be in accordance with the applicable Plans Preparation Manual (PPM)/FDOT Design Manual 140. NOTE: The specification limits only apply to 108-1. When 108-2 and/or 108-3 are used, specific location(s) for each must be shown.

SUMMARY OF MONITOR EXISTING STRUCTURES								
SITE NO.	LOCATION ADDRESS AND/OR STA.	STRUCTURE USAGE	INSPECTION & SETTLEMENT MONITORING		VIBRATION MONITORING		DESIGN NOTES	CONSTRUCTION REMARKS
			0108 1		0108 2			
			LS		LS			
			P	F	P	F		
1	8660 US HWY 17 S / 142+54.44 LT	CHURCH	X		X			ROADWAY COMPACTION
2	7891 US HWY 17 S / 212+40.20 RT	RADIO STATION	X		X			ROADWAY COMPACTION
		TOTAL	1		1			

THIS LIST INCLUDES EXISTING STRUCTURES (AS DETERMINED BY THE DEPARTMENT) LOCATED OUTSIDE THE LIMITS SPECIFIED IN ARTICLE 108-2 OF THE FDOT SPECIFICATIONS THAT ARE REQUIRED TO BE MONITORED. THIS LIST SHOULD NOT BE CONSIDERED ALL INCLUSIVE AND DOES NOT CONTAIN EXISTING STRUCTURES TO BE MONITORED THAT ARE LOCATED WITHIN THE DISTANCES SPECIFIED IN ARTICLE 108-2.

The example below is correct for projects where monitoring is required, but all locations are within specification limits. The estimator/reviewer should verify types of monitoring required, per PPM/FDOT Design Manual guidance. For a lump sum project, place an "X" in the appropriate column(s) to indicate required monitoring. NOTE (still applies to LS projects): The specification limits only apply to 108-1. When 108-2 and/or 108-3 are used, specific location(s) for each must be shown.

SUMMARY OF MONITOR EXISTING STRUCTURES						
SITE NO.	LOCATION ADDRESS AND/OR STA.	STRUCTURE USAGE	INSPECTION & SETTLEMENT MONITORING		DESIGN NOTES	CONSTRUCTION REMARKS
			0108 1			
			LS			
			P	F		
		TOTAL:	1			

THIS LIST INCLUDES EXISTING STRUCTURES (AS DETERMINED BY THE DEPARTMENT) LOCATED OUTSIDE THE LIMITS SPECIFIED IN ARTICLE 108-2 OF THE FDOT SPECIFICATIONS THAT ARE REQUIRED TO BE MONITORED. THIS LIST SHOULD NOT BE CONSIDERED ALL INCLUSIVE AND DOES NOT CONTAIN EXISTING STRUCTURES TO BE MONITORED THAT ARE LOCATED WITHIN THE DISTANCES SPECIFIED IN ARTICLE 108-2.

Incorrect:

Do not add/change columns. Place an "X" in the appropriate column(s) for the type of monitoring to be completed. Address goes under the Location. Unused pay item column should be removed.

Do not remove Total rows at the bottom of the summary box. Total should reflect 1LS for each applicable pay item.

SUMMARY OF MONITOR EXISTING STRUCTURES												
SITE NO.	LOCATION		STRUCTURE USAGE	INSPECTION & SETTLEMENT MONITORING		VIBRATION MONITORING		GROUNDWATER MONITORING		DESIGN NOTES	ADDRESS	STRUCTURE TYPE
				0108 1		0108 2		0108 3				
	LS			LS		LS						
	P	F		P	F	P	F					
	1313+50	LEFT	PHARMACY			1				MONITOR DURING ROADWAY COMPACTION	2256 W NINE MILE RD	
	1316+00	RIGHT	PHARMACY			1				MONITOR DURING ROADWAY COMPACTION	2237 W NINE MILE RD	
	1337+50	LEFT	MEDICAL			1				MONITOR DURING ROADWAY COMPACTION	400 MILESTONE BLVD	
	1340+50	LEFT	DENTISTRY			1				MONITOR DURING ROADWAY COMPACTION	35 NEWPORT ST	
	1347+50	LEFT	MEDICAL			1				MONITOR DURING ROADWAY COMPACTION	185 CROSSVILLE ST	
	1350+00	LEFT	ASSISTED LIVING			1				MONITOR DURING ROADWAY COMPACTION	150 CROSSVILLE ST	
	1385+50	RIGHT	CHURCH			1				MONITOR DURING ROADWAY COMPACTION	1251 W NINE MILE RD	
	1388+50	LEFT	CHURCH			1				MONITOR DURING ROADWAY COMPACTION	1144 W NINE MILE RD	
	1394+00	LEFT	CHURCH			1				MONITOR DURING ROADWAY COMPACTION	1101 W NINE MILE RD	
	1416+50	LEFT	VETERINARY CLINIC			1				MONITOR DURING ROADWAY COMPACTION	550 W NINE MILE RD	
	1420+00	RIGHT	RESTAURANT			1				MONITOR DURING DEEP EXCAVATION	535 W NINE MILE RD	
	1422+50	RIGHT	RESTAURANT			1				MONITOR DURING DEEP EXCAVATION	529 W NINE MILE RD	
	1422+50	LEFT	CHIROPRACTOR			1				MONITOR DURING ROADWAY COMPACTION	410 W NINE MILE RD	
	15+50	RIGHT	RESIDENTIAL			1				MONITOR DURING SHEETPILE WALL INSTALL.	9106 UNTREINER AVE	
	15+50	LEFT	RESIDENTIAL			1				MONITOR DURING SHEETPILE WALL INSTALL.	9107 UNTREINER AVE	
	17+50	LEFT	RESIDENTIAL			1				MONITOR DURING SHEETPILE WALL INSTALL.	9111 UNTREINER AVE	
	18+50	RIGHT	RV PARK			1				MONITOR DURING SHEETPILE WALL INSTALL.	9110 UNTREINER AVE	
	20+00	RIGHT	RESIDENTIAL			1				MONITOR DURING SHEETPILE WALL INSTALL.	9112 UNTREINER AVE	
	21+50	RIGHT	RESIDENTIAL			1				MONITOR DURING SHEETPILE WALL INSTALL.	9250 UNTREINER AVE	
	22+00	LEFT	RETAIL			1				MONITOR DURING SHEETPILE WALL INSTALL.	541 W NINE MILE RD	
	23+00	RIGHT	RESIDENTIAL			1				MONITOR DURING SHEETPILE WALL INSTALL.	9270 UNTREINER AVE	
	24+00	RIGHT	RESIDENTIAL			1				MONITOR DURING SHEETPILE WALL INSTALL.	9295 UNTREINER AVE	
	26+00	RIGHT	INDUSTRIAL			1				MONITOR DURING SHEETPILE WALL INSTALL.	9320 UNTREINER AVE	
	27+00	RIGHT	RETAIL SERVICE			1				MONITOR DURING SHEETPILE WALL INSTALL.	301 W NINE MILE RD #1	
	27+50	RIGHT	CHURCH			1				MONITOR DURING SHEETPILE WALL INSTALL.	301 W NINE MILE RD #3	
	28+50	RIGHT	COMMERCIAL			1				MONITOR DURING SHEETPILE WALL INSTALL.	301 W NINE MILE RD # 2	

13. Summary of Clearing and Grubbing & Removal Items

[Instructions; Return to Summary Box List](#)

Correct: Shown below, with 110-4- pay item and old title, prior to July 2017 implementation of new Section 110 specification.

SUMMARY OF REMOVAL ITEMS														
PAY ITEM NO.	PAY ITEM DESCRIPTION	LOCATION		SIDE	AREA ID	UNITS	SECONDARY UNITS (IF LUMP SUM)		QUANTITY		TOTAL		DESIGN NOTES	CONSTRUCTION REMARKS
		STA.	TO STA.				AREA (AC)	P	F	P	F			
0110 1 1	CLEARING AND GRUBBING	963+61.19	TO 963+61.19	RT	21748	LS	0.810						1.76 TOTAL AC	
		963+80.76	TO 963+80.76	LT	21821		0.950							
0110 4	REMOVAL OF EXISTING CONCRETE PAVEMENT	964+14.59	TO 964+28.34	RT	20703	SY			7.2			269		
		964+70.49	TO 967+09.85	LT	20696				195.9					
		965+23.57	TO 965+93.41	RT	20707					56.8				
		966+73.63	TO 966+84.28	RT	20713					8.7				

Shown below, with 110-4-10 pay item, after July 2017 implementation of new Section 110 specification, with type of concrete to be removed identified in the Design Notes Column. Similar types of concrete may be sorted together, i.e. all sidewalk, all Retaining Walls.

SUMMARY OF CLEARING AND GRUBBING & REMOVAL ITEMS												
PAY ITEM NO.	PAY ITEM DESCRIPTION	LOCATION		SIDE	AREA ID	UNITS	QUANTITY		TOTAL		DESIGN NOTES	CONSTRUCTION REMARKS
		STA.	TO STA.				P	F	P	F		
0110 4 10	REMOVAL OF EXISTING CONCRETE	700+71.00	TO 703+71.00	RT	19624	SY	134.0			1640		TRAFFIC SEPARATOR
		701+34.00	TO 705+70.99	LT	19434		291.3					SIDEWALK
		701+38.50	TO 702+16.58	LT	19634		43.4					GRAVITY WALL
		703+52.34	TO 708+36.74	RT	19635		233.9					RETAINING WALL
		705+70.99	TO 712+37.08	RT	18843		421.9					SIDEWALK
		705+70.99	TO 712+37.08	LT	18838		466.2					SIDEWALK
		713+25.23	TO 714+35.97	LT	19629		49.2					

Incorrect:

Do not create "custom" summary boxes for Tree Protection or Clearing & Grubbing- Tree Removal.

SUMMARY OF TREE PROTECTION						
LOCATION		TREE CALIPER	QUANTITY		DESIGN NOTES	CONSTRUCTION REMARKS
STATION	SIDE		P	F		
			EA	EA		
218+49.48	LT	8"	1			
219+91.55	RT	9"	1			
221+12.05	LT	12"	1			
231+89.34	LT	14"	1			
232+62.43	LT	24"	1		MULTI TRUNK	
234+42.82	LT	20"	1			
236+17.95	LT	12"	1			
236+66.12	LT	13"	1			
237+28.29	LT	11"	1			
237+72.52	LT	12"	1			
238+17.70	LT	12"	1			
238+62.29	LT	12"	1			
239+13.94	LT	24"	1		MULTI TRUNK	
239+59.50	LT	14"	1			
241+11.71	LT	13"	1			
241+58.12	LT	10"	1			
253+71.78	LT	10"	1			
254+44.06	LT	14"	1			
255+37.07	LT	16"	1			
SUB-TOTAL:			19			

SUMMARY OF TREE PROTECTION (CONTINUED)						
LOCATION		TREE CALIPER	QUANTITY		DESIGN NOTES	CONSTRUCTION REMARKS
STATION	SIDE		P	F		
			EA	EA		
256+19.29	LT	12"	1			
256+76.00	LT	14"	1			
257+27.66	LT	13"	1			
258+30.50	LT	15"	1			
258+66.32	RT	12"	1			
258+84.24	RT	10"	1			
259+02.26	RT	9"	1			
259+03.80	LT	14"	1			
259+20.42	RT	12"	1			
260+73.10	LT	20"	1			
261+09.88	LT	14"	1			
261+47.11	LT	12"	1			
261+83.70	LT	12"	1			
262+22.98	LT	12"	1			
262+85.95	LT	18"	1			
263+04.34	LT	14"	1			
263+43.12	LT	13"	1			
SUB-TOTAL:			17			
FINAL TOTAL:			36			COST OF TREE PROTECTION TO BE INCLUDED UNDER CLEARING AND GRUBBING (110-1-1)

Guardrail Removal belongs on the Summary of Guardrail.

SUMMARY OF REMOVAL ITEMS										
PAY ITEM NO.	PAY ITEM DESCRIPTION	LOCATION		SIDE	UNITS	QUANTITY		TOTAL		CONSTRUCTION REMARKS
		STA. TO STA.				P	F	P	F	
0536 73	GUARDRAIL REMOVAL	1425+32.01 R2 to 1426+67.99 R2		RT	LF	148.0		392		
		1425+67.65 R2 to 1427+30.09 R2		LT		164.0				
		1446+30.99 R3 to 1446+69.54 R3		RT		80.0				

15. Summary of Earthwork

[Instructions; Return to Summary Box List](#)

Correct: Use description field to separate locations. Street names, ramp identification, and or station limits may be used as shown, or within the Design Notes column. Remember to include note below summary box, per PPM/FDM instructions. While this example is correct, the Design Notes column could have been used to identify the street/ramp name.

SUMMARY OF EARTHWORK				
PAY ITEM NO.	PAY ITEM DESCRIPTION	CY		CONSTRUCTION REMARKS
		P	F	
0120- 1-	REGULAR EXCAVATION			
	MAINLINE (SR 45A) STA. 1401+79.59 TO 1461+87.37	25545.00		
	MAINLINE (SR 45A) STA. 1462+50.00 TO 1468+60.00 (FOR MEDIAN N OF BIRD BAY)	343.00		
	GROVELAND AVE.	175.00		
	LAUREL AVE.	27.00		
	CYPRESS AVE.	299.00		
	VENICE AVE.	42.00		
	RIDGWOOD AVE	37.00		
	SNF C	6780.00		
	SNF D	10031.00		
	TOTAL REGULAR EXCAVATION	43279.00		
0120- 6-	EMBANKMENT			
	MAINLINE (SR 45A) STA. 1401+79.59 TO 1461+87.37	12014.00		
	GROVELAND AVE.	28.00		
	LAUREL AVE.	1.00		
	CYPRESS AVE.	0.00		
	VENICE AVE.	34.00		
	RIDGWOOD AVE	4.00		
	SNF C	3652.00		
	SNF D	5181.00		
	TOTAL EMBANKMENT	20914.00		

Incorrect: Quantities were not separated by location. An additional "Total" column was added.

SUMMARY OF EARTHWORK							
PAY ITEM NO.	PAY ITEM DESCRIPTION	QUANTITY (CY)		TOTAL (CY)		DESIGN NOTES	CONSTRUCTION REMARKS
		P	F	P	F		
0120 1	REGULAR EXCAVATION			572.00			
						12TH AVENUE	
0120 8	EMBANKMENT			4463.00			
						12TH AVENUE	

Earthwork has been calculated using the Limerock base option.
If another option is constructed, there shall be no revision to the earthwork quantities for which payment is made by Plan Quantity.

Do NOT create supplemental summary boxes to define the work.

SUMMARY OF EARTHWORK				
STREET NAME		DESCRIPTION	CY	
			P	F
MAINLINE NW 7TH Avenue	EXCAVATION	68+60.00 TO 110+70.00 (SEE CROSS SECTIONS)	26439	
	EMBANKMENT	68+60.00 TO 110+70.00 (SEE CROSS SECTIONS)	239	
SUBTOTAL (NW 9th Street)	EXCAVATION	8+86.00 TO 9+75.00 (SEE CROSS SECTIONS)	152	
	EMBANKMENT	8+86.00 TO 9+75.00 (SEE CROSS SECTIONS)	0	
SUBTOTAL (NW 10th Street)	EXCAVATION	9+10.00 TO 10+85.00 (SEE CROSS SECTIONS)	228	
	EMBANKMENT	9+10.00 TO 10+85.00 (SEE CROSS SECTIONS)	5	
SUBTOTAL (NW 11th Street)	EXCAVATION	8+65.00 TO 9+75.00 (SEE CROSS SECTIONS)	126	
	EMBANKMENT	8+65.00 TO 9+75.00 (SEE CROSS SECTIONS)	0	
SUBTOTAL (NW 11th Street) E	EXCAVATION	10+25.00 TO 11+45.78 (SEE CROSS SECTIONS)	294	
	EMBANKMENT	10+25.00 TO 11+45.78 (SEE CROSS SECTIONS)	0	
SUBTOTAL (NW 12th Street) W	EXCAVATION	8+95.00 TO 9+74.97 (SEE CROSS SECTIONS)	120	
	EMBANKMENT	8+95.00 TO 9+74.97 (SEE CROSS SECTIONS)	0	
SUBTOTAL (NW 13th Street) W	EXCAVATION	9+24.00 TO 9+75.00 (SEE CROSS SECTIONS)	95	
	EMBANKMENT	9+24.00 TO 9+75.00 (SEE CROSS SECTIONS)	0	
SUBTOTAL (NW 13th Street) E	EXCAVATION	10+25.00 TO 11+00.00 (SEE CROSS SECTIONS)	136	
	EMBANKMENT	10+25.00 TO 11+00.00 (SEE CROSS SECTIONS)	0	
SUBTOTAL (NW 14th Street) W	EXCAVATION	9+01.00 TO 9+75.39 (SEE CROSS SECTIONS)	91	
	EMBANKMENT	9+01.00 TO 9+75.39 (SEE CROSS SECTIONS)	7	
SUBTOTAL (NW 14th Street) E	EXCAVATION	10+25.45 TO 10+93.00 (SEE CROSS SECTIONS)	232	
	EMBANKMENT	10+25.45 TO 10+93.00 (SEE CROSS SECTIONS)	0	
SUBTOTAL (NW 15th Street) W	EXCAVATION	8+00.00 TO 9+75.15 (SEE CROSS SECTIONS)	156	
	EMBANKMENT	8+00.00 TO 9+75.15 (SEE CROSS SECTIONS)	0	
SUBTOTAL (NW 15th Street) E	EXCAVATION	10+24.98 TO 10+85.00 (SEE CROSS SECTIONS)	144	
	EMBANKMENT	10+24.98 TO 10+85.00 (SEE CROSS SECTIONS)	0	
		SUBTOTAL EXCAVATION	2803	
		SUBTOTAL EMBANKMENT	251	

16. Summary of Geotechnical Items
[Instructions](#); [Return to Summary Box List](#)

Correct:

Incorrect: Missing AREA ID column. No width information provided to verify area quantity.

SUMMARY OF GEOTECHNICAL ITEMS											
PAY ITEM NO.	PAY ITEM DESCRIPTION	LOCATION		SIDE	UNIT	QUANTITY		TOTAL		DESIGN NOTES	CONSTRUCTION REMARKS
		STA.	TO STA.			P	F	P	F		
0145 2	GEOSYNTHETIC REINFORCED FOUNDATION OVER SOFT SOIL	83+36.00	to 91+20.00	LT	SY	2367		2367			

DRAFT

17. Summary of Driveway Base

[Instructions](#); [Return to Summary Box List](#)

Correct:

Incorrect:

DRAFT

18. Summary of Pavement

[Instructions](#); [Return to Summary Box List](#)

Correct:

The street name, ramp designation, “northbound mainline”, or “median”, etc. may be added to the location description column, to provide additional clarity.

Requested: Need a correct example that includes overbuild, with detailed quantity calculations. Need an example that includes driveway(s).

SUMMARY OF PAVEMENT												
PAY ITEM NO.	PAY ITEM DESCRIPTION	LOCATION		SIDE	AREA ID	UNIT	QUANTITY		TOTAL		DESIGN NOTES	CONSTRUCTION REMARKS
		STA. TO STA.	DESCRIPTION				P	F	P	F		
0160 4	TYPE B STABILIZATION	60+41.48 to 66+99.00		LT/RT	35797	SY	3480.10		8988.0			
		66+99.00 to 67+13.25		LT/RT	35843		113.50					
		68+30.75 to 68+45.00		LT/RT	35830		113.30					
		68+44.96 to 72+61.48		LT/RT	35821		3281.20					
285706	OPTIONAL BASE, BASE GROUP 06	60+41.48 to 66+99.00		LT/RT	35918	SY	5117.60		6414.0			
		66+99.00 to 67+13.25		LT/RT	35911		113.50					
		68+30.75 to 68+45.00		LT/RT	35906		113.30					
		68+45.00 to 72+61.48		LT/RT	35937		3069.20					
0327 70 1	MILLING EXIST ASPH PAVT, 1" AVG DEPTH	56+17.45 to 60+41.48		LT/RT	7169	SY	2992.80		6400.0			
		72+61.48 to 77+49.38		LT/RT	30464		3407.00					
0334 1 22	SUPERPAVE ASPHALTIC CONCRETE (TRAFFIC B, PG 76-22, PMA)	60+41.48 to 66+99.00		LT/RT	36019	TN	844.44		1379.1			
		66+99.00 to 67+12.04		LT/RT	40825		7.07					
		66+99.00 to 67+12.04		LT	40817		7.07					
		68+31.96 to 68+45.00		RT	41532		7.05					
		68+31.96 to 68+45.00		LT	41529		7.05					
0337 7 40	ASPHALTIC CONCRETE FRICTION COURSE (TRAFFIC B, FC-3.5, PG 76-22, PMA)	56+17.45 to 60+41.48		LT/RT	36118	TN	164.61		811.7			
		60+41.48 to 66+99.00		LT/RT	36063		281.48					
		66+99.00 to 67+12.04		LT	40886		2.36					
		66+99.00 to 67+12.04		RT	40873		2.36					
		68+31.96 to 68+45.00		RT	41561		2.35					
		68+31.96 to 68+45.00		LT	41552		2.35					
		68+45.00 to 72+61.48		LT/RT	36080		166.81					
		72+61.48 to 77+49.38		LT/RT	36089		187.39					

SUMMARY OF PAVEMENT													
PAY ITEM NO.	PAY ITEM DESCRIPTION	LOCATION		SIDE	AREA ID	UNIT	QUANTITY		TOTAL		CONSTRUCTION REMARKS		
		STA. TO STA.	DESCRIPTION				P	F	P	F			
0337	MILLING EXIST ASPH PAVT., 1/2" AVG DEPTH	138+22.48 R 2 TO 150+90.15 R 2	RAMP B OUTER SHOULDER	LT	40903	SY	1625.8		8329				
		138+24.79 R 2 TO 151+10.81 R 2	RAMP B INNER SHOULDER	LT	40904		397.0						
		138+55.26 R 2 TO 151+18.03 R 2	RAMP A OUTER SHOULDER	RT	40908		1573.0						
		138+58.34 R 2 TO 151+27.21 R 2	RAMP A INNER SHOULDER	RT	40907		352.2						
		151+88.35 R 2 TO 164+36.60 R 2	RAMP C INNER SHOULDER	LT	40905		490.0						
		152+04.09 R 2 TO 165+54.22 R 2	RAMP D INNER SHOULDER	RT	40910		520.8						
		152+24.95 R 2 TO 164+39.53 R 2	RAMP C OUTER SHOULDER	LT	40906		1662.3						
		152+51.23 R 2 TO 165+55.60 R 2	RAMP D OUTER SHOULDER	RT	40909		1707.7						
		0334	SUPERPAVE ASPH CONC. TRAFFIC B	99+99.41 R 2 TO 132+56.66 R 2	OUTSIDE SHOULDERS OF MAIN TRAVEL LANES	RT	41133	TN	276.44		4514.0		
				99+99.41 R 2 TO 128+16.69 R 2		LT	41169		226.24				
128+16.67 R 2 TO 138+23.25 R 2	LT			41137			74.35						
132+55.69 R 2 TO 138+56.49 R 2	RT			41142			52.64						
138+24.79 R 2 TO 150+25.61 R 2	LT			41341			92.13						
138+58.32 R 2 TO 150+28.02 R 2	RT			41347			106.07						
152+68.22 R 2 TO 164+40.58 R 2	LT			41404			86.12						
152+70.73 R 2 TO 165+54.44 R 2	RT			41376			88.64						
164+38.58 R 2 TO 214+01.25 R 2	LT			41319			404.33						
165+55.12 R 2 TO 214+21.15 R 2	RT			41146			413.65						
218+56.05 R 2 TO 364+18.77 R 3	LT			41153			1266.00						
219+30.79 R 2 TO 364+18.80 R 3	RT			41162			1227.3						
99+99.41 R 2 TO 364+18.80 R 3	RT						60.5						
99+99.41 R 2 TO 364+18.80 R 3	LT						139.6						
0334	SUPERPAVE ASPH CONC. TRAFFIC B, PG76-22, PMA			322+44.93 R 3 TO 325+59.59 R 3		PERMANENT CROSSOVER	LT/RT	52755	TN	53.00		53.0	
		0334	SUPERPAVE ASPH CONC. TRAFFIC C, PG76-22, PMA	138+23.48 R 2 TO 151+08.86 R 2	RAMP B TRAVEL LANE	LT	42698	TN	253.53	1070.4			
138+56.49 R 2 TO 151+36.99 R 2	RAMP A TRAVEL LANE			RT	42712		273.41						
151+87.95 R 2 TO 164+38.39 R 2	RAMP C TRAVEL LANE			LT	42723		273.18						
152+05.81 R 2 TO 165+55.00 R 2	RAMP D TRAVEL LANE			RT	42688		270.27						
0334	SUPERPAVE ASPH CONC. TRAFFIC D, PG82-22, PMA	99+99.41 R 2 TO 150+28.92 R 2	INSIDE SHOULDERS OF MAIN TRAVEL LANES	RT	46488	TN	204.70	1803.8					
		99+99.41 R 2 TO 150+25.63 R 2		LT	46521		166.80						
		152+68.43 R 2 TO 214+21.21 R 2		LT	46496		238.90						
		152+70.27 R 2 TO 214+21.11 R 2		RT	46502		223.70						
		218+55.80 R 2 TO 364+18.78 R 2		LT	46509		491.70						
		219+30.92 R 2 TO 364+18.80 R 2		RT	46516		478.00						
0334	SUPERPAVE ASPH CONC. TRAFFIC D, PG82-22, PMA	99+99.41 R 2 TO 150+28.74 R 2	MAIN TRAVEL LANES	RT	43530	TN	1754.40	17323.4					
		99+99.41 R 2 TO 150+25.62 R 2		LT	43543		1811.50						
		152+68.39 R 2 TO 214+01.26 R 2		LT	43557		2069.70						
		152+70.37 R 2 TO 214+21.07 R 2		RT	43522		2196.20						
		218+55.82 R 2 TO 364+18.78 R 2		LT	43483		4607.40						
		219+30.82 R 2 TO 364+18.80 R 2		RT	43488		4625.00						
		99+99.41 R 2 TO 364+18.80 R 3		RT			119.6						
		99+99.41 R 2 TO 364+18.80 R 3		LT			139.6						

Incorrect:

Do not add columns (Volume in this example). Do not create a separate summary box. Keep the 334 quantities together and notate the quantity as Overbuild in the Design Notes column.

SUMMARY OF PAVEMENT (OVERBUILD)

PAY ITEM NO.	PAY ITEM DESCRIPTION	LOCATION		AREA	VOLUME	UNIT	QUANTITY		TOTAL		DESIGN NOTES	CONSTRUCTION REMARKS
		STA. TO STA.	DESCRIPTION				P	F	P	F		
334-1-13	SUPERPAVE ASPHALTIC CONC. TRAFFIC C. (OVERBUILD)	85+00.00		0.46		TN			*		*326.2 TN INCLUDED IN	
		85+50.00		1.46	47.9		4				SUMMARY OF PAVEMENT	
		86+00.00		2.18	90.9		7				0334 1 13	
		86+50.00		2.48	116.4		9					
		87+00.00		2.80	132.0		10					
		87+50.00		3.55	158.8		12					
		88+00.00			88.7		7					
		92+40.00		7.14								
		92+50.00		7.14	71.4		5					
		93+00.00		7.14	178.4		13					
		93+00.00		33.37								
		93+33.00		33.37	1101.2		81					
		93+33.00		17.24								
		93+50.00		17.24	293.0		21					
		94+00.00		4.46	542.5		40					
		101+00.00		12.61								
		101+50.00		7.48	502.3		37					
		102+00.00		9.16	416.0		31					
		102+50.00		4.66	345.5		25					
		103+00.00		3.91	214.1		16					
		103+50.00		1.38	132.2		10					
		103+74.48			16.9		1					



19. Summary of Miscellaneous Asphalt Pavement

[Instructions](#); [Return to Summary Box List](#)

Correct:

SUMMARY OF MISCELLANEOUS ASPHALT PAVEMENT									
LOCATION STA. TO STA.	SIDE	AREA ID	LENGTH	WIDTH	THICK (IN)	MEDIAN PAVEMENT (TN)		DESIGN NOTES	CONSTRUCTION REMARKS
						0339	1		
						P	F		
1450+72.58 R3 to 1450+79.81 R3	LT	146055			2		0.24		
1452+13.26 R3 to 1452+18.26 R3	RT	120216			2		0.44		
1455+98.24 R3 to 1456+05.77 R3	LT	120210			2		0.32		
1456+28.91 R3 to 1456+36.20 R3	RT	120205			2		0.24		
1461+69.67 R3 to 1461+77.00 R3	LT	120200			2		0.35		
1462+59.20 R3 to 1462+65.03 R3	LT/RT	120195			2		0.44		
SUB-TOTAL:							2.0		
TOTAL:							2.0		

Incorrect:

Location information (including the Area ID or length/width of quantified area) shall be included in the summary box. There should not be a reference to the plans for the information.

SUMMARY OF MISCELLANEOUS ASPHALT PAVEMENT						
LOCATION STA. TO STA.	SIDE	THICK (IN)	UNDER GUARDRAIL		DESIGN NOTES	CONSTRUCTION REMARKS
			0339	1 (TN)		
			P	F		
92+20.66 TO 96+78.16	LT	2	7.62		**	
92+85.29 TO 94+24.51	RT	2	3.69		**	
94+70.70 TO 96+90.70	RT	2	3.66		**	
SUB-TOTAL:			14.97			
TOTAL:			14.97			

** NOTE: REFER TO PLANS FOR MISCELLANEOUS ASPHALT PAVEMENT WIDTH.

20. Summary of Box Culverts

[Instructions;](#) [Return to Summary Box List](#)

Correct: This summary box is normally used for box culverts less than 20'. Box Culverts over 20' are defined as bridge culverts, and should use the Summary of Structure Quantities, along with the Bridge number.

SUMMARY OF BOX CULVERTS									
PAY ITEM NO.	PAY ITEM DESCRIPTION	LOCATION STATION	UNIT	QUANTITY		TOTAL		DESIGN NOTES	CONSTRUCTION REMARKS
				P	F	P	F		
0400 4 1	CONCRETE CLASS IV, CULVERTS	1426+00.00 R2	CY	459.00		491.2		SEE BOX CULVERT DATA SHEETS	
		1448+00.00 R3		32.20				SEE BOX CULVERT DATA SHEETS	
0415 1 1	REINF STEEL-ROADWAY	1426+00.00 R2	LB	127250.89		135637.1		SEE BOX CULVERT DATA SHEETS	
		1448+00.00 R3		8386.22				SEE BOX CULVERT DATA SHEETS	

Incorrect:

21. Summary of Drainage

[Instructions](#); [Return to Summary Box List](#)

Correct: In addition to standard cross drains and side drains, includes quantities for Trench Drain, Underdrain, French Drain, and Edgedrain.

Incorrect:

DRAFT

22. Summary of Utility Adjustments

[Instructions](#); [Return to Summary Box List](#)

Correct:

Quantities separated for each included project.

Note: Total column formatting could remain without merged cells, with the total shown at the top. When cells are merged, use top justification, so the total remains at the top of the cell.

SUMMARY OF UTILITY ADJUSTMENTS										
PAY ITEM NO.	PAY ITEM DESCRIPTION	LOCATION STATION	SIDE	UNIT	QUANTITY		TOTAL (EA)		DESIGN NOTES	CONSTRUCTION REMARKS
					P	F	P	F		
0425 5	ADJUST FOOT MANHOLES	76+50.54	RT	EA	1.0				Baseline Survey SA 953	
		76+73.34	RT	EA	1.0				Baseline Survey SA 953	
		77+49.25	RT	EA	1.0				Baseline Survey SA 953	
		81+77.25	LT	EA	1.0				Baseline Survey SA 953	
		93+63.93	LT	EA	1.0				Baseline Survey SA 953	
		95+57.08	LT	EA	1.0				Baseline Survey SA 953	
		98+34.72	LT	EA	1.0				Baseline Survey SA 953	
		99+69.99	LT	EA	1.0				Baseline Survey SA 953	
		10+20.80	LT	EA	1.0				Baseline Survey Alhambra Circle	
		10+47.20	LT	EA	1.0				Baseline Survey Alhambra Circle	

SUMMARY OF UTILITY ADJUSTMENTS										
PAY ITEM NO.	PAY ITEM DESCRIPTION	LOCATION STATION	SIDE	UNIT	QUANTITY		TOTAL (EA)		DESIGN NOTES	CONSTRUCTION REMARKS
					P	F	P	F		
0425 6	START SIDE WATER VALVE ADJUSTMENTS*	94+17.72	LT	EA	1.0				Baseline Survey SA 953	
		94+25.24	LT	EA	1.0				Baseline Survey SA 953	
		94+31.72	LT	EA	1.0				Baseline Survey SA 953	
		94+77.52	LT	EA	1.0				Baseline Survey SA 953	
		94+79.84	LT	EA	1.0				Baseline Survey SA 953	
		10+57.20	LT	EA	1.0				Baseline Survey Alhambra Circle	
		10+70.47	LT	EA	1.0				Baseline Survey Alhambra Circle	
		10+76.29	LT	EA	1.0				Baseline Survey Alhambra Circle	
		13+23.29	LT	EA	1.0				Baseline Survey Alhambra Circle	
		16+57.49	LT	EA	1.0				Baseline Survey Alhambra Circle	
		18+55.94	LT	EA	1.0				Baseline Survey Alhambra Circle	

Incorrect:

Do not include offset information with location/station.

SUMMARY OF UTILITY ADJUSTMENTS										
PAY ITEM NO.	PAY ITEM DESCRIPTION	LOCATION STATION	SIDE	UNIT	QUANTITY		TOTAL		DESIGN NOTES	CONSTRUCTION REMARKS
					P	F	P	F		
0425-5-	MANHOLES, ADJUST	9+41.59 (10.17' RT)	RT	EA	1.0			1.0	NW 14TH ST	
		66+69.60 (22.69' LT)	RT	EA	1.0			1.0	NW 7TH AVE	
		66+70.81 (9.47' RT)	RT	EA	1.0			1.0	NW 7TH AVE	
		67+29.17 (22.83' RT)	RT	EA	1.0			1.0	NW 7TH AVE	
		67+62.10 (6.82' LT)	RT	EA	1.0			1.0	NW 7TH AVE	
					5.0			5.0		

23. Summary of Miscellaneous Drainage Items

[Instructions; Return to Summary Box List](#)

Correct:

Incorrect:

Do NOT repeat the pay item number, description, unit, or total. These should only be on the FIRST row where the pay item is list in the summary box. The total should include the accumulated total for all of the values in the Quantity column and shown only on the FIRST row where the pay item is list in the summary box.

SUMMARY OF MISCELLANEOUS DRAINAGE ITEMS								
PAY ITEM NO.	PAY ITEM DESCRIPTION	LOCATION	SIDE	UNIT	QUANTITY	TOTAL		CONSTRUCTION REMARKS
		STA. TO STA.				P	F	
425-10	YARD DRAINS	1409+75.00 R2	RT	EA	1.0	1		
425-10	YARD DRAINS	1411+65.00 R2	RT	EA	1.0	1		
425-10	YARD DRAINS	1414+54.00 R2	RT	EA	1.0	1		
425-10	YARD DRAINS	1416+80.00 R2	RT	EA	1.0	1		
430-175-115	PIPE CULVERT OPT MAT, ROUND, 15", S/CD	1409+77.00 R2 to 1411+01.25 R2	RT	LF	150.0	150		
430-175-115	PIPE CULVERT OPT MAT, ROUND, 15", S/CD	1411+35.06 R2 to 1411+64.00 R2	RT	LF	50.0	50		
430-175-115	PIPE CULVERT OPT MAT, ROUND, 15", S/CD	1414+55.00 R2 to 1414+72.36 R2	RT	LF	37.0	37		
430-175-115	PIPE CULVERT OPT MAT, ROUND, 15", S/CD	1415+05.98 R2 to 1416+78.00 R2	RT	LF	192.0	192		

Do NOT change the name or create a new summary box. Desilting quantity should be included on the Summary of Miscellaneous Drainage Items, Summary of Box Culverts, or on the Summary of Drainage Structures Sheets.

SUMMARY OF DESILTING									
PAY ITEM NO.	PAY ITEM DESCRIPTION	SIDE	UNIT	QUANTITY		TOTAL		DESIGN NOTES	CONSTRUCTION REMARKS
				P	F	P	F		
0430 950	DESILTING CONCRETE BOX CULVERT	LT/RT	CY	145.8		198		TRIPLE CULVERT @ STA. 1426+10	
		LT/RT		52.6				DOUBLE CULVERT @ STA. 1447+95	

Do not include the Summary of Drainage Structures on the Summary of Quantity sheets. They belong on their own sheets. If there is only minor work, use the Summary of Miscellaneous Drainage Items.

SUMMARY OF DRAINAGE STRUCTURES											
QUANTITY	STR. NO.	STATION	SIDE	DESCRIPTION	CURB INLET	GUTTER INLET	MANHOLE	PIPE CULVERT	FRENCH DRAIN	DESIGN NOTES	CONSTRUCTION REMARKS
					Type 9 < 10'	Type S < 10'	Type P-7 < 10'	18"	24" FD		
					425 12 01(EA)	425 17 01 (EA)	425 2 41 (EA)	430 174 118 (LF)	443 70 4 (LF)		
P	S-1	12+45.55	RT	INLET, FD	1				50	Provide Type II Skimmer	
F											
P	S-2	14+54.53	LT	INLET, PIPE		1		16		See Drainage Details	
F											
P	S-3	14+54.53	LT	MANHOLE, FD			1		70	Provide Type II Skimmer	
F											
P	S-4	14+90.58	LT	INLET, PIPE	1			33			
F											
TOTAL	P				2	1	1	49	120		
	F										

This quantity should be included on the Summary of Miscellaneous Drainage Items, Summary of Side Drain and Mitered End Sections, or on the Summary of Drainage Structures Sheets.

SUMMARY OF PIPE FILLING & PLUGGING				
LOCATION	SIDE	PIPE FILLING & PLUGGING PLACE OUT OF SERVICE		DESIGN NOTES
		0430 830		
STA.		CY		
		P	F	
1422+80 +/-	RT	4.71		SEE PLAN SHEET FOR MORE INFORMATION
1426+30 +/-	RT	1.86		SEE PLAN SHEET FOR MORE INFORMATION
SUB-TOTAL:		6.57		
PLAN TOTAL:		6.57		

Do NOT repeat total quantity in every summary box when it continues to the next sheet. The total should ONLY be on the FIRST summary box in the FIRST row (not centered or justified to the bottom of a merged cell) where the pay item is introduced to a box.

SUMMARY OF CURB & GUTTER AND/OR TRAFFIC SEPARATORS														
PAY ITEM NO.	PAY ITEM DESCRIPTION	LOCATION		SIDE	AREA ID	UNIT	QUANTITY				TOTAL		DESIGN NOTES	CONSTRUCTION REMARKS
		STA.	TO STA.				GROSS LENGTH	DEDUCTIONS TYPE	LENGTH	NET LENGTH P	F	P		
0520-1-10	CONCRETE CURB & GUTTER, TYPE F (CONT'D)	80+69.80	to 80+74.16	RT	67251	LF	8.50							
		81+14.47	to 81+38.83	RT	67223		33.60							
		81+38.83	to 83+29.91	RT	67230		191.10							
		82+98.91	to 83+11.91	LT	67204		20.50							
		82+98.91	to 83+11.91	LT	67463		20.50							
		83+11.47	to 83+11.91	LT	67170		67.00							
		83+29.91	to 86+24.59	RT	67224		294.70							
		83+37.89	to 83+38.00	LT	67185		65.10							
		83+38.00	to 83+53.00	LT	67206		23.60							
		83+53.00	to 86+61.50	LT	67205		308.50							
		86+24.59	to 86+54.59	RT	67253		47.00							
		86+54.59	to 86+54.89	RT	67228		45.30							
		86+61.50	to 86+76.50	LT	67187		23.60							
		86+76.50		LT	67163		8.70							
		86+76.50	to 86+76.63	LT	67457		27.40							
		86+90.57	to 87+20.57	RT	67254		47.20							
		86+90.57	to 86+90.68	RT	67227		45.00							
		87+06.92	to 87+31.92	LT	67186		55.00							
		87+06.92	to 87+06.93	LT	67458		15.80							
		87+20.57	to 90+86.25	RT	67226		365.70							
		87+41.92	to 90+86.51	LT	67177		344.60							
		90+86.25	to 91+16.25	RT	67236		47.50							
		90+86.51	to 91+16.51	LT	67207		47.20							
		91+15.76	to 91+16.25	RT	67234		37.80							
		91+15.76	to 91+15.83	RT	67497		22.10							
		91+16.42	to 91+16.45	LT	67461		24.80			24052.96				
		91+16.51	to 91+16.52	LT	67171		19.30							
		91+40.30	to 91+41.09	LT	67462		36.90							
		91+41.09	to 91+79.08	LT	67188		59.00							
		91+53.10	to 91+54.28	RT	67233		59.10							
		91+53.10	to 91+83.09	RT	67235		47.80							
		91+79.08	to 96+90.87	LT	67178		511.80							
		91+83.09	to 94+33.47	RT			264.26							
		94+54.57	to 97+50.27	RT			306.60							
		96+90.87	to 97+05.86	LT	67189		23.90							
		97+04.26	to 97+05.86	LT	67172		74.80							
		97+30.17	to 97+31.33	LT	67164		73.70							
		97+31.33	to 97+48.33	LT	67208		26.40							
		97+48.33	to 97+97.77	LT	67158		49.50							
		97+50.27	to 97+82.26	RT	67257		49.50							
		97+82.26	to 97+82.37	RT	67238		4.20							
		97+82.36	to 97+83.02	RT	67237		25.50							
		97+97.80	to 104+23.85	LT	67156		626.10							
		98+07.49	to 98+08.23	RT	67239		25.50							
		98+07.49		RT	67255		0.80							
		98+07.49	to 98+41.49	RT	67256		53.40							
		98+41.49	to 104+23.18	RT	67216		581.70							
		104+23.18	to 104+55.17	RT	67260		49.70							
		104+23.85	to 104+48.84	LT	67169		39.80							
		104+47.59	to 104+48.84	LT	67173		66.80							
		104+55.17	to 104+56.79	RT	67241		67.90							

Do not delete the total column for boxes that total across and then add pay items by sections with individual total rows.

SUMMARY OF CURB & GUTTER AND/OR TRAFFIC SEPARATORS											
PAY ITEM NO.	PAY ITEM DESCRIPTION	LOCATION	SIDE	UNIT	QUANTITY				DESIGN NOTES	CONSTRUCTION REMARKS	
		STA. TO STA.			GROSS LENGTH	DEDUCTIONS		NET LENGTH			
						TYPE	LENGTH	P			F
520-2-2	CONCRETE CURB TYPE B										
		1131+61.74 TO 1131+76.90	LT	LF	40.6						
	CURB AND GUTTER B TOTAL			LF	41						
520-2-4	CONCRETE CURB TYPE D										
		SR 482									
		1127+96.73 TO 1128+05.85	LT	LF	17.3						
		1128+12.35 TO 1128+60.66	LT	LF	48.7						
		1128+55.74 TO 1128+71.32	LT	LF	77.8						
		1129+00.63 TO 1129+19.16	LT	LF	22.8						
		1129+03.32 TO 1129+42.38	LT	LF	48.7						
		1129+96.77 TO 1131+20.33	LT	LF	124.8						
		1127+13.87 TO 1127+13.31	RT	LF	14.0						
		INTERNATIONAL DR									
		22+10.15 TO 22+08.46	LT	LF	12.9						
		22+33.51 TO 22+40.00	LT	LF	15.0						
		26+10.66 TO 26+10.37	LT	LF	3.1						
		26+35.86 TO 26+37.50	LT	LF	6.9						
		34+35.42 TO 34+35.42	LT	LF	24.0						
		34+59.42 TO 34+59.42	LT	LF	24.0						
		35+78.34 TO 34+78.34	LT	LF	6.0						
		36+01.84 TO 36+01.84	LT	LF	6.0						
	CONCRETE CURB TYPE D TOTAL			LF	452						
520-3	CONCRETE VALLEY GUTTER										
		SR 482									
		1128+55.42 TO 1129+14.73	LT	LF	59.3						
		1129+29.25 TO 1129+98.72	LT	LF	69.5						
		1131+03.88 TO 1132+35.19	LT	LF	131.3						
		1136+50.72 TO 1137+49.80	LT	LF	99.1						
		1131+28.54 TO 1132+08.88	RT	LF	80.3						
		1133+90.34 TO 1134+72.26	RT	LF	81.9						
		INTERNATIONAL DR									
		21+86.65 TO 22+57.01	LT	LF	70.4						
		25+93.03 TO 26+53.52	LT	LF	60.5						
		25+84.95 TO 26+84.72	RT	LF	99.8						
	CONCRETE VALLEY GUTTER TOTAL			LF	752						

26. Summary of Permanent Barriers, formerly "Barrier Wall"

[Instructions; Return to Summary Box List](#)

Correct:

SUMMARY OF PERMANENT BARRIER WALL										
PAY ITEM NO.	PAY ITEM DESCRIPTION	LOCATION	SIDE	UNIT	QUANTITY		TOTAL		DESIGN NOTES	CONSTRUCTION REMARKS
		STA. TO STA.			P	F	P	F		
0521 1	MEDIAN CONCRETE BARRIER WALL	1352+40.00 to 1360+99.97		LF	860.0		1000			
	CAST IN PLACE	1360+99.97 to 1362+15.37			115.6					
		1362+15.37 to 1362+39.91	LT		24.6					
0521 72 3	SHOULDER CONCRETE BARRIER WALL	1447+50.57 to 1454+35.03	RT	LF	692.5		2037			
	RIGID-SHOULDER	1456+97.27 to 1464+20.00	RT		722.7					
		1457+53.98 to 1463+76.08	LT		622.5					
0521 72 10	SHOULDER CONCRETE BARRIER WALL	432+81.61 to 434+03.17	RT	LF	121.6		243			
	RIGID SHOULDER 42"	434+03.17 to 434+03.17	RT		121.6					

Incorrect:

DRAFT

27. Summary of Permanent Driveways

[Instructions](#); [Return to Summary Box List](#)

Correct:

Incorrect:

DRAFT

On LS Project (optional: pay item numbers not shown)

SUMMARY OF SIDEWALK & DETECTABLE WARNINGS										
LOCATION STA. TO STA.	SIDE	AREA ID	LENGTH	WIDTH	CONC SIDEWALK 4"		DETECTABLE WARNINGS		DESIGN NOTES	CONSTRUCTION REMARKS
					SY		SF			
					P	F	P	F		
129+06.01 to 129+11.61	RT	13088			4.3				TENNESSEE AVE SE	
129+11.55 to 129+26.99	RT	13885			11.8				TENNESSEE AVE SE	
138+37.08 to 138+50.32	LT	8198			6.0				LURA AVE NW	
140+43.57 to 140+64.39	LT	13534			12.0				HURWOOD AVE SW	
141+07.15 to 141+15.93	LT	8282			1.0				HURWOOD AVE NW	
141+07.42 to 141+21.08	LT	13900			6.5				HURWOOD AVE NW	
141+43.79 to 141+49.30	LT	13081			3.7				HURWOOD AVE NW	
141+49.30 to 141+62.30	LT	13078			7.5				HURWOOD AVE NW	
141+62.29 to 141+79.41	LT	13024			8.0				HURWOOD AVE NW	
113+67.00 to 113+81.47	RT	13727					23.6		HOMEDEPOT, DELIVERY ENTRANCE	
114+48.06 to 114+61.32	RT	13729					21.7		HOMEDEPOT, DELIVERY ENTRANCE	
117+90.11 to 118+03.22	RT	13734					21.6		HOMEDEPOT, 1ST ENTRANCE SE	
118+07.48 to 118+09.48	LT	13744					10.2		TANGERINE AVE SW	
118+53.46 to 118+65.76	LT	13749					22.4		TANGERINE AVE NW	
118+65.59 to 118+78.67	RT	13739					21.6		HOMEDEPOT, 1ST ENTRANCE NE	
121+36.88 to 121+52.51	RT	13754					25.0		HOMEDEPOT, 2ND ENTRANCE SE	
129+18.60 to 129+26.99	RT	13112					17.4		TENNESSEE AVE SE	
133+30.18 to 133+41.82	RT	13762					19.7		GEORGIA AVE NE	
136+39.89 to 136+48.98	RT	13768					14.8		HATFIELD AVE SE	
136+88.02 to 136+96.81	RT	13773					17.1		HATFIELD AVE NE	
138+41.20 to 138+44.25	LT	13220					8.0		LURA AVE NW	
140+53.19 to 140+64.39	LT	13227					25.2		HURWOOD AVE SW	
141+11.35 to 141+14.25	LT	68243					8.0		HURWOOD AVE NW	
141+53.30 to 141+58.30	LT	13252					10.0		HURWOOD AVE NW	



When the Area ID is not used, the width and length should be included in the available columns. The width should not be documented in the Design Notes column.

SUMMARY OF SIDEWALK & DETECTABLE WARNINGS												
LOCATION STA. TO STA.	SIDE	AREA ID	LENGTH	WIDTH	CONC SIDEWALK 4"		CONC SIDEWALK 6"		DETECTABLE WARNINGS		DESIGN NOTES	CONSTRUCTION REMARKS
					0522 1		0522 2		0527 2			
					SY		SY		SY			
P	F	P	F	P	F	P	F					
129+71.45 to 130+56.08	RT				18.00							WIDTH= 2.0', HARMONIZATION AREA
131+82.10 to 132+39.80	RT				39.10							WIDTH= 4.3', HARMONIZATION AREA
137+89.36 to 138+02.70	LT				8.40							WIDTH= 6.0', HARMONIZATION AREA
139+96.85 to 140+69.20	RT				40.00							WIDTH= 7.3', HARMONIZATION AREA
142+53.17 to 142+91.75	RT				24.50							WIDTH= 6.0', HARMONIZATION AREA
143+21.75 to 143+45.75	RT				16.00							WIDTH= 6.0', HARMONIZATION AREA
143+69.75 to 143+93.80	RT				15.90							WIDTH= 6.0', HARMONIZATION AREA
144+23.78 to 144+64.68	RT				90.80							WIDTH= 20.0', HARMONIZATION AREA
148+05.91 to 149+18.78	RT				2.70							WIDTH= 2.0', HARMONIZATION AREA
149+03.77 to 149+41.28	LT				12.10							WIDTH= 3.0', HARMONIZATION AREA
151+91.74 to 152+06.76	LT				4.20							WIDTH= 2.5', HARMONIZATION AREA
157+90.00 to 158+13.45	LT				2.40							WIDTH= 1.0', HARMONIZATION AREA
158+13.45 to 158+38.50	LT				7.80							WIDTH= 6.0', HARMONIZATION AREA
8+59.00 to 9+58.98	RT				42.78							WIDTH= 5.0', HARMONIZATION AREA SIDE STREET-NW 12 ST(WEST)
8+85.00 to 9+64.40	RT				17.80							WIDTH= 2.0', HARMONIZATION AREA SIDE STREET-NW 15 ST(WEST)
10+50.36 to 11+23.83	RT				11.80							WIDTH= 1.5', HARMONIZATION AREA SIDE STREET-NW 17 ST(EAST)
8+45.80 to 8+90.80	RT				19.40							WIDTH= 4.0', HARMONIZATION AREA SIDE STREET-NW 18 ST(WEST)
8+66.32 to 9+01.52	LT				35.00							WIDTH= 9.0', HARMONIZATION AREA SIDE STREET-NW 18 ST(WEST)
9+48.95 to 9+64.66	LT				20.00							WIDTH= 9.0', HARMONIZATION AREA SIDE STREET-NW 18 ST(WEST)
10+35.62 to 10+94.74	LT				35.80							WIDTH= 5.0', HARMONIZATION AREA SIDE STREET-NW 21 TERR(EAST)
11+14.74 to 11+44.32	LT				16.80							WIDTH= 5.0', HARMONIZATION AREA SIDE STREET-NW 21 TERR(EAST)
10+44.00 to 10+96.01	RT				6.90							WIDTH= 1.3', HARMONIZATION AREA SIDE STREET-NW 22 ST
69+33.21 to 69+68.21	LT	6717					16.10					
71+34.39 to 71+46.28	LT	65203					35.00					
71+38.13 to 71+80.11	RT	6697					19.60					
72+52.09 to 72+86.24	LT	6627					13.40					
73+69.04 to 74+01.04	LT	6645					13.80					
76+12.39 to 76+46.39	RT	6628					13.20					
78+33.49 to 78+40.10	RT	6719					19.80					
81+69.09 to 82+19.09	RT	6630					27.70					
82+16.01 to 82+60.01	LT	6631					19.50					
83+04.73 to 83+09.84	LT	44754					9.60					
83+18.88 to 83+62.80	RT	6632					22.10					
83+39.85 to 83+44.93	LT	6720					12.20					
83+57.45 to 83+85.45	LT	6633					16.30					
83+87.45 to 84+11.45	LT	6634					15.10					
84+13.45 to 84+41.45	LT	6635					16.20					
84+60.88 to 84+92.88	LT	6636					17.10					
84+97.23 to 85+29.23	LT	6637					17.00					
86+24.67 to 86+62.67	LT	6638					22.30					
97+73.09 to 98+11.12	LT	6639					28.90					
98+47.68 to 99+03.68	RT	6640					35.70					
99+28.16 to 99+60.16	LT	6641					21.00					
99+92.98 to 100+32.98	LT	6642					34.50					
SUB-TOTAL:					488.18		446.10					

29. Summary of Ditch Pavement

[Instructions](#); [Return to Summary Box List](#)

Correct:

SUMMARY OF DITCH PAVEMENT								
LOCATION	SIDE	AREA ID	LENGTH	WIDTH	DITCH PAVEMENT		DESIGN NOTES	CONSTRUCTION REMARKS
					0524	1 2		
STA. TO STA.					SY			
					P	F		
964+30.00 to 967+10.00	LT		280.0	7.0		217.8		
966+74.00 to 966+84.00	RT		10.0	7.0		7.8		
SUB-TOTAL:						225.6		
TOTAL:						226		

Incorrect:

Either the Area ID or the length and width columns must be used.

SUMMARY OF DITCH PAVEMENT												
LOCATION	SIDE	AREA ID	LENGTH	WIDTH	RIPRAP - RUBBLE (DITCH LINING)		BEDDING STONE		DITCH PAVEMENT		DESIGN NOTES	CONSTRUCTION REMARKS
					0530	3 4	0530	74	0524	1 2		
STA. TO STA.					TN		TN		SY			
					P	F	P	F	P	F		
65+87.50 to 65+72.50	LT									3.0		
66+78.01 to 67+10.99	RT				34.1		71.9					
68+77.52 to 68+87.54	LT				4.0		2.9					
SUB-TOTAL:					38.1	0.0	74.8	0.0	3.0	0.0		
TOTAL:					38.1	0.0	74.8	0.0	3.0	0.0		

30. Summary of Walls

[Instructions](#); [Return to Summary Box List](#)

Correct:

Requested: Need a correct example with Wall No. column.

SUMMARY OF WALLS											
PAY ITEM NO.	PAY ITEM DESCRIPTION	LOCATION		SIDE	UNIT	QUANTITY		TOTAL		DESIGN NOTES	CONSTRUCTION REMARKS
		STA.	TO STA.			P	F	P	F		
0400 0 11	CONCRETE CLASS NS, GRAVITY WALL	63+75.00	- 65+38.99	RT	CY	80.5		175.5		5.5' AVG. HEIGHT	
		65+44.65	- 65+88.50	RT		26.2				5.5' AVG. HEIGHT	
		65+93.83	- 68+78.00	RT		31.1				5.5' AVG. HEIGHT	
		69+02.00	- 70+00.00	LT		21.8				4.0' AVG. HEIGHT	
		68+45.00	- 69+00.00	RT		45.3				5.0' AVG. HEIGHT	

Incorrect:

Do NOT rename the summary box.

SUMMARY OF RETAINING WALL											
WALL NO.	PAY ITEM NO.	PAY ITEM DESCRIPTION	LOCATION		SIDE	UNIT	QUANTITY		TOTAL		CONSTRUCTION REMARKS
			STA.	TO STA.			P	F	P	F	
1	0400 4 11	CONCRETE CLASS IV, RETAINING WALLS	1412+98.62	1418+10.78	LT	CY	281.5		282		
	0415 1 3	REINFORCING STEEL - RETAINING WALL	1412+98.62	1418+10.78	LT	LB	25722.0		25722		

xx. Summary of Cable Barrier (Pending)

[Instructions](#); [Return to Summary Box List](#)

Correct: See Instructions for Developmental Design Standards/Developmental Standard Plans Instructions. <http://www.fdot.gov/roadway/DS/Dev/IDDS/IDDS-D00450.pdf>

Incorrect:

DRAFT

32. Summary of Permanent Crash Cushions

[Instructions](#); [Return to Summary Box List](#)

Correct:

SUMMARY OF PERMANENT CRASH CUSHIONS (431422-1-52-01)												
LOCATION STATION	SIDE	BARRIER SYSTEM		DESIGN LENGTH	DESIGN SPEED	CRASH TEST LEVEL	HAZARD WIDTH	LENGTH RESTRICTION	CRASH CUSHION		DESIGN NOTES	CONSTRUCTION REMARKS
		CONCRETE BARRIER WALL	GUARDRAIL	FT.	MPH	TL-2 / TL-3	IN.	FT.	0544	75		
797+06.03	LT.	X		18	60	TL-3		24.00	1		Bridge # 030075	
SUB-TOTAL:									1			
TOTAL:												

Incorrect:

Missing design length column.

SUMMARY OF PERMANENT CRASH CUSHIONS										
LOCATION STATION	SIDE	BARRIER SYSTEM		DESIGN SPEED	CRASH TEST LEVEL	LENGTH RESTRICTION	CRASH CUSHION		DESIGN NOTES	CONSTRUCTION REMARKS
		CONCRETE BARRIER WALL	GUARDRAIL	MPH	TL-2 / TL-3	FT	0544	75		
309+04.00	RT.	X		70	TL-3	18.75	1			
309+73.03	LT.	X		70	TL-3	18.75	1			
502+43.52	RT.	X		70	TL-3	18.75	1			
SUB-TOTAL:							3			
TOTAL:							3			

33. Summary of Fencing

[Instructions](#); [Return to Summary Box List](#)

Correct:

SUMMARY OF FENCING											
PAY ITEM NO.	DESCRIPTION	LOCATION		SIDE	UNIT	QUANTITY		TOTAL		DESIGN NOTES	CONSTRUCTION REMARKS
		STA.	TO STA.			P	F	P	F		
550-10-120	FENCING, TYPE A, 5.1-6.0', STANDARD	1379+17.98	TO 1379+21.70	RT	LF	24.0		24.0			
		1379+48.11	TO 1379+53.40	RT	LF	48.0					
		1399+95.73	TO 1400+25.85	LT, RT	LF	48.0					
		1402+35.26	TO 1402+43.89	LT, RT	LF	24.0					
		1402+45.03	TO 1402+78.24	LT, RT	LF	24.0					
550-10-128	FENCING, TYPE A, 5.1-6.0', RESET EXISTING	321+63.02	TO 321+64.74	RT	LF	48.0		48.0			
		321+61.50	TO 322+25.04	RT	LF	56.0					
		378+45.85	TO 378+53.58	LT	LF	40.0					
		378+81.58	TO 378+92.86	LT	LF	48.0					
		400+31.82	TO 400+63.95	LT, RT	LF	40.0					
		402+62.83	TO 402+75.33	LT, RT	LF	18.0					
		403+00.84	TO 403+02.26	LT	LF	24.0					
		403+02.77	TO 403+08.43	LT, RT	LF	13.0					

SUMMARY OF FENCING											
PAY ITEM NO.	DESCRIPTION	LOCATION		SIDE	UNIT	QUANTITY		TOTAL		DESIGN NOTES	CONSTRUCTION REMARKS
		STA.	TO STA.			P	F	P	F		
0550 10222	Fencing, Type B, 5.1- 6.0' Height, w/ Vinyl Coating	1412+96.73	R2 to 1412+98.62 R2	LT	LF	1.9		2003			
		1412+96.73	R2 to 1412+99.62 R2	LT		38.5					
		1413+16.82	R2 to 1417+96.36 R2	LT		479.6					
		1418+10.76	R2 to 1418+20.16 R2	LT		23.7					
		1418+20.16	R2 to 1418+20.36 R2	LT		21.7					
		1428+53.58	R2 to 1434+46.34 R3	RT		1437.5					
0550 60212	Fence Gate, Type B, Single, 6.1-12.0' Opening	1434+46.33	R3 to 1434+46.34 R3	RT	EA	1.0		1			
0550 60225	Fence Gate, Type B, Double, 20.1-24.0' Opening	1412+99.62	R2 to 1413+16.82 R2	LT	EA	1.0		2			
		1417+96.36	R2 to 1418+20.36 R2	LT		1.0					

Incorrect:

34. Summary of Performance Turf

[Instructions](#); [Return to Summary Box List](#)

Correct:

SUMMARY OF PERFORMANCE TURF										
LOCATION STA. TO STA.	SIDE	AREA ID	LENGTH	WIDTH	PERFORMANCE TURF		PERFORMANCE TURF (SOD)		DESIGN NOTES	CONSTRUCTION REMARKS
					0570 1 1	0570 1 2	0570 1 2	0570 1 2		
					SY		SY			
					P	F	P	F		
83+36.00 to 86+36.09	RT	103295			320.4					
86+36.06 to 96+54.54	RT	106021			2354.4					
302+43.30 to 302+77.74	RT	88694			34.3					
400+20.60 to 402+11.28	LT	105018			616.4					
401+60.84 to 410+36.32	LT	103916			809.7					
67+46.08 to 83+36.00	RT	82996			3867.6					
68+00.15 to 76+22.98	LT	104834			2277.2					
76+53.52 to 79+00.00	LT	104915			467.4					
300+70.00 to 305+16.51	LT	60316			257.4					
301+86.13 to 302+47.11	RT	83032			16.2					
302+73.98 to 303+06.85	RT	83037			9.9					
303+18.71 to 305+98.96	RT	82977			533.6					
401+47.31 to 401+47.31	RT	114826			662.3					
403+00.45 to 404+70.59	RT	114609			22.1					
407+66.30 to 410+33.63	RT	114626			157.8					
68+01.69 to 68+69.04	LT	84013					46.0			
68+69.04 to 73+20.00	LT	84788					172.1			
83+36.00 to 86+36.09	RT	103246					116.9			
67+26.29 to 73+20.00	RT	82671					235.5			
73+20.00 to 76+28.08	LT	92314					145.4			
73+20.00 to 78+80.00	RT	28169					218.2			
76+48.32 to 79+00.00	LT	92335					122.9			
78+80.00 to 83+36.00	RT	28320					177.4			
86+36.06 to 91+20.00	RT	60586					188.6			
91+20.00 to 96+54.54	RT	28202					208.2			
300+00.00 to 305+96.57	RT	80288					251.2			
300+00.01 to 306+05.87	LT	28064					212.7			
400+00.00 to 401+20.00	LT	78933					50.0			
400+00.00 to 401+20.00	RT	78945					46.1			
FROM DRAINAGE STRUCTURES	RT/LT						90.0			
SUB-TOTAL					12406.7		2281.2			
TOTAL					12406.7		2281.2			

Incorrect:

Do NOT create a new summary box. Plastic Erosion Mat and Prepared Soil Layer quantities go in the same summary box as the Performance Turf.

SUMMARY OF PLASTIC EROSION MAT										
PAY ITEM NO.	PAY ITEM DESCRIPTION	SIDE	AREA ID	UNIT	QUANTITY		TOTAL		DESIGN NOTES	CONSTRUCTION REMARKS
					P	F	P	F		
0571 1 13	PLASTIC EROSION MAT, TURF REINFORCED MAT, TYPE 3	LT	156440	SY	48.0		172		MAT @ HATCHETT CREEK	
		RT	156445		48.0				MAT @ HATCHETT CREEK	
		LT	156435		76.0				MAT @ HATCHETT CREEK	

SUMMARY OF PREPARED SOIL LAYER								
LOCATION	SIDE	AREA ID	LENGTH	WIDTH	PREPARED SOIL LAYER		DESIGN NOTES	CONSTRUCTION REMARKS
					0162 1 11			
STA. TO STA.					SY			
					P	F		
14+19.18 TO 14+44.75	LT				88.0		3-6" LAYERS OF 75/25 SOIL	
14+20.72 TO 14+43.35	RT				38.0		3-6" LAYERS OF 75/25 SOIL	
75+81.00 TO 76+60.00	LT/RT				153.0		21" LAYER OF 75/25 SOIL	
90+36.50 TO 90+98.00	LT/RT				133.0		21" LAYER OF 75/25 SOIL	
96+60.00 TO 97+41.00	LT/RT				192.0		21" LAYER OF 75/25 SOIL	
					SUB-TOTAL :		604	
					TOTAL :		604	

35. Summary of Traffic Monitoring Site Items

[Instructions](#); [Return to Summary Box List](#)

Correct: See 695- 1 to verify if Traffic Monitoring Site is for Transportation Statistics “TranStat” Office, or if site is for Traffic Ops, MCSAW, or other purpose.

Incorrect:

LF quantity and sub-total should be shown to the tenth decimal place.

SUMMARY OF TRAFFIC MONITORING SITE ITEMS														
LOCATION		SIDE	CONDUIT (OPEN TRENCH)		PULL AND SPLICE BOX (17" X 30")		VEHICLE AXLE SENSOR, NON-WEIGHT		INDUCTIVE LOOP ASSEMBLY		CABINET		DESIGN NOTES	CONSTRUCTION REMARKS
SITE NO.	STATION		0630 2 11		0635 2 11		0695 1 1		0695 6 12		0695 7132			
			LF		EA		EA		EA		EA			
		P	F	P	F	P	F	P	F	P	F			
105616	1368+09.00	LT/RT	133		2		4		4		1			
SUB-TOTAL:			133		2		4		4		1			
TOTAL:			133		2		4		4		1			

36. Summary of Utilities

Instructions; [Return to Summary Box List](#)

Correct:

Incorrect:

DRAFT

37. Summary of Structures, Bridge XXXXXX

Instructions; [Return to Summary Box List](#)

Correct:

Incorrect:

DRAFT

Chapter 9

APPLICATIONS FOR DESIGNERS: WEBGATE, PROJECT PRECONSTRUCTION (PrP), AND DESIGNER WEB PAGES

9.1 General

Multiple applications are available to the designer to facilitate the data entry necessary for pay items and quantities. They include: FDOT's Design Quantities and Estimates (DQE), AASHTOWare's Project Preconstruction (PrP), and FDOT's Designer Interface and Webgate Reports. While DQE and PrP are restricted to FDOT Estimators, the systems work together to assist Designers with loading pay items and quantities.

2021 Projects: This chapter reflects application guidance current at the time of posting. For projects following the 2021 edition of the FDM and using the new CADD platforms, updates will be posted as more information becomes available.

9.1.1 AASHTOWARE Suite

AASHTOWare Project (Pr) is a suite of programs owned by AASHTO (American Association of State Highway Transportation Officials). Many states around the country use this suite of programs for their transportation contracts. Additional information is available at <http://www.aashtoware.org/> FDOT uses the Project Preconstruction (PrP) module. Details on the modules are available at <https://www.aashtoware.org/products/project/project-modules/>

9.1.3 Training

Training is available from the State Program Management Office, Estimating Systems Support section. Dates are scheduled upon request. Please contact your District Estimates Office to request training. Training is available in various formats: online recorded, classroom, and/or remote online meeting.

9.1.4 Security

Security within Webgate, PrP, and Designer Interface are coordinated through the FDOT Automated Access Request Form (AARF). Contact your District Security Coordinator (FDOT employees) and/or FDOT Project Manager (FDOT Design Consultants) to request access.

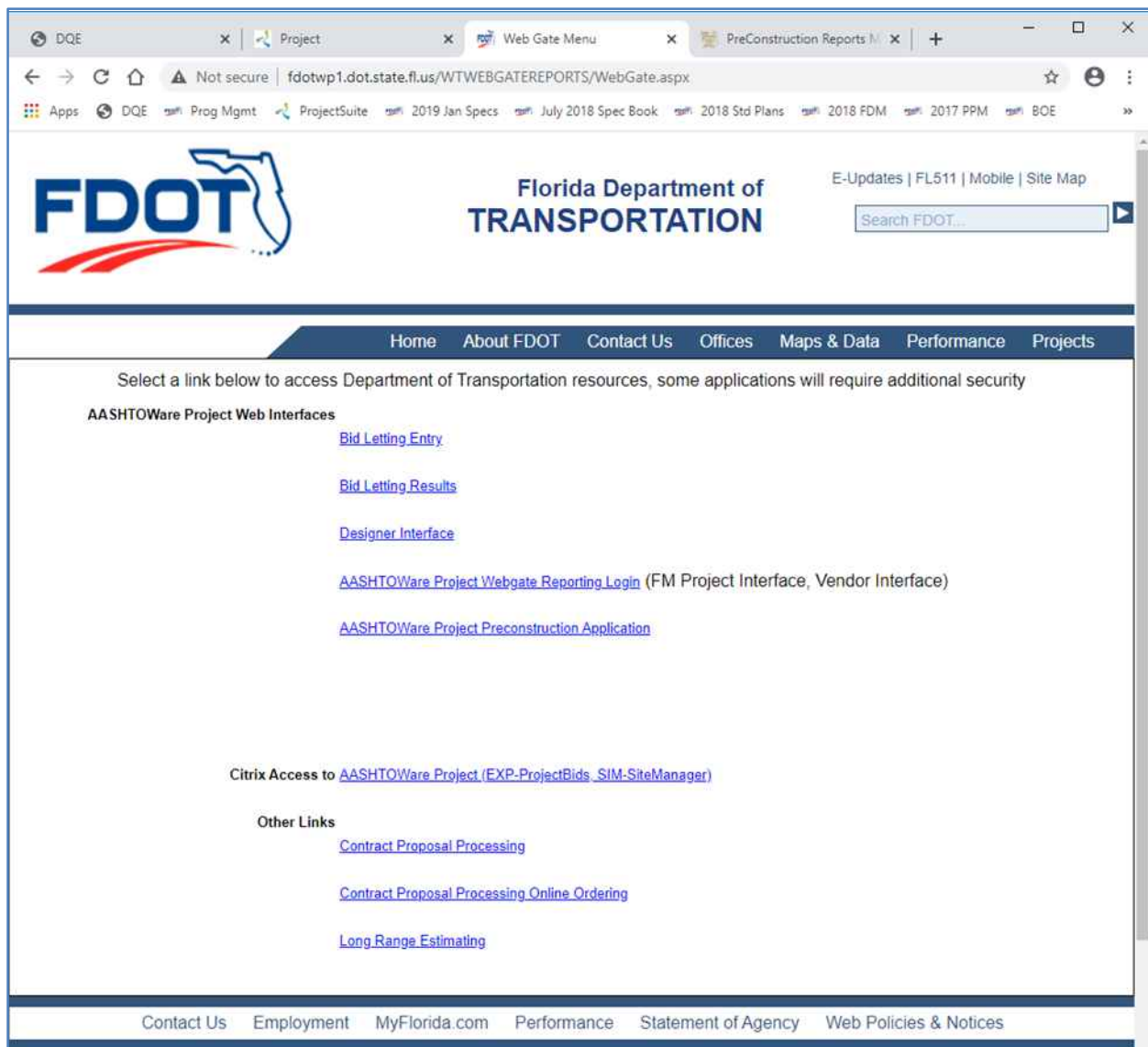
Webgate and Designer Interface are generally available to designers and FDOT staff working in FDOT projects. PrP is generally restricted to FDOT staff working in specific types projects (construction and/or maintenance).

9.2 Webgate

The Webgate is a FDOT application that serves as a doorway to the Designer Interface, Reports Menu, and other applications. It is accessed with the RACF userID and password.

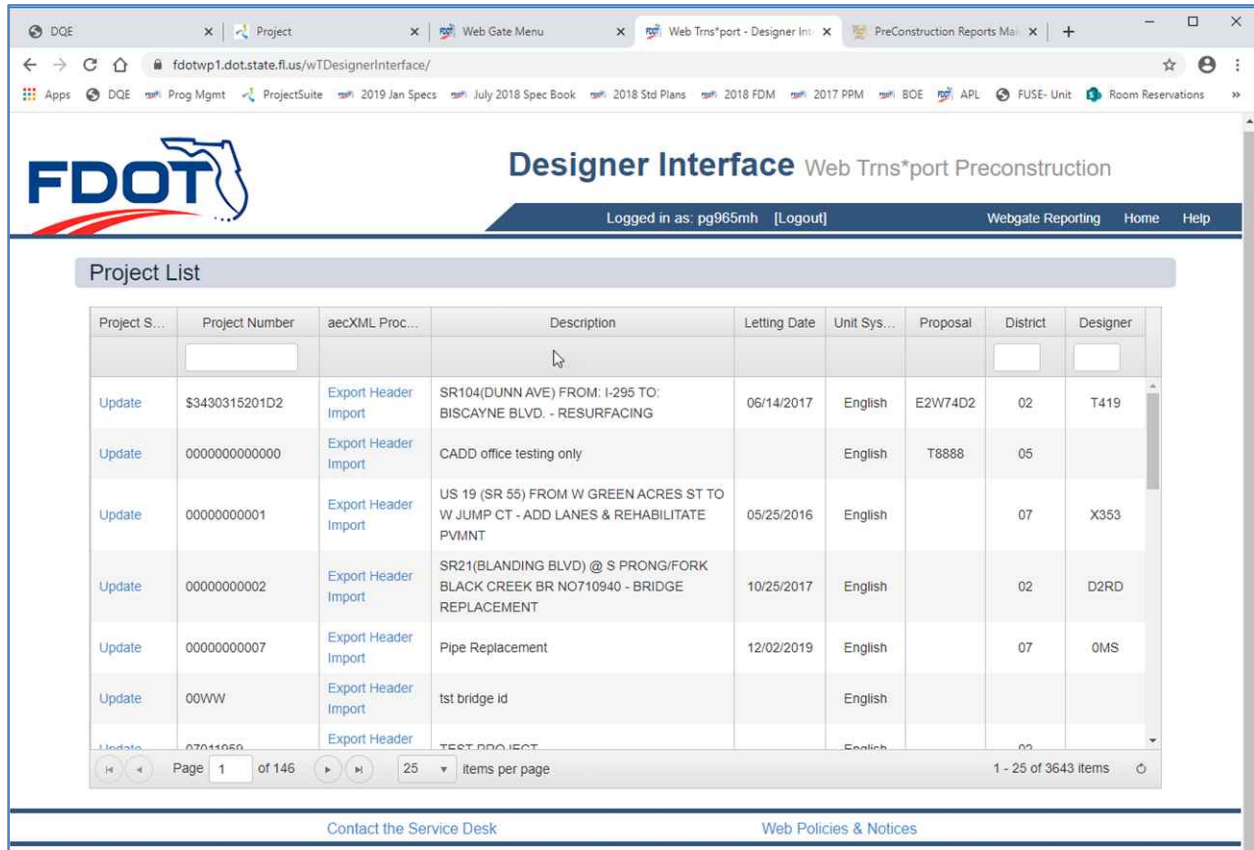
9.2.1 Menu

The screen below shows the options available on the Webgate menu at <https://fdotwp1.dot.state.fl.us/WTWEBGATEREPORTS/WebGate.aspx>.



9.2.2 Designer Interface

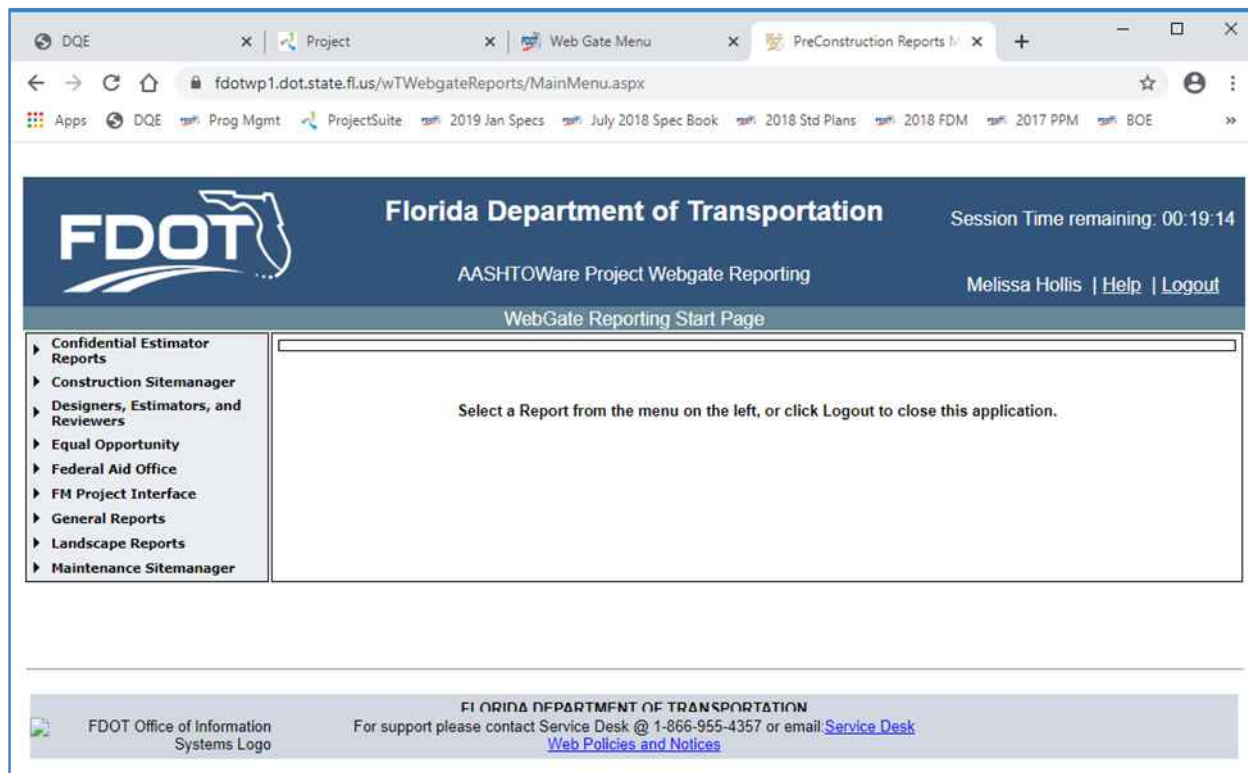
The Designer Interface is a tool used for loading project pay items into PrP. Details are included below in 9.3.



9.2.3 Reports

The Reports menu allows users to select and produce reports based on current “live” information. Some of the reports are based on historical (awarded) projects, while other reports are based on future (proposed) projects. Additional details are provided below for using the Reports.

Note: Report options may vary for designers, reviewers, estimators, and others.



9.2.4 Other Applications

Links to additional applications, including LRE (Long Range Estimates System), are available from the Webgate menu. Note that additional rights may be required to fully utilize these applications. Contact your District Estimates Office for information and/or to request access to these applications. Access will be based on the applications needed to complete the FDOT work assigned to a user and/or their employer.

9.3 Designer Interface

9.3.1 Project Access and Verification

Once assigned to a project, the designer should verify:

- a) that the project exists (or that proper control has been given)
- b) that all project header information is correct

If proper control is not given, the project will not appear on the designer's list of available projects. The designer should contact the District Estimates Office to request control. If the project appears on the Project List with a lock, another user may be accessing the project. If the lock remains, contact the District Estimates Office; the lock may be the result of closing a browser without closing the project from editing.

9.3.2 Headers

As described above, information is grouped at various levels:

- Proposal
- Project
- Category (aka Design Group)
- Pay Item

Each level includes information applicable to the levels above and/or below it.

Proposal Headers: The District Estimates Office creates the proposal prior to the letting. The proposal is used to “link” or “string” one or more projects, for letting purposes. All projects must be assigned a proposal number prior to advertisement.

Note: The State Program Management Office recommends that the proposal be created between 90-100% plans. Creating the proposal prior to 90% plans is possible, but may cause other issues, if created too early.

Project Headers: When first given access to the project, and at each design phase, the designer must verify the project header information. While much of this information is automatically transferred from FM to PrP, the designer should check the letting date, spec/pay item year, and other information. Any errors should be immediately reported to the FDOT project manager for correction.

If project header information is incorrect, DO NOT attempt change it; this information is refreshed nightly from FM. It **MUST BE CORRECTED IN FM**. The designer should contact the FDOT project manager prior to making any changes. The project manager will coordinate FM changes with the responsible office(s) in the district. See below for more information on Project Headers.

Category Headers: From the project level of the Designer Interface, the designer can select, copy, and/or delete categories. At a minimum, **each component set of plans (structures, roadway, lighting, etc.) must have a corresponding category.** In accordance with the Plans Preparation Manual (PPM)/ FDOT Design Manual (FDM), it is possible to have minor/incidental work from another design group included on the roadway plans, yet still have a separate category for pay items. Unused categories should be deleted.

Items are categorized by pay item range:

Item Numbers (Specification Sections)	SUBJECT/GROUP	Category / Design Group/ Plans
100-102	MOT	0200 Roadway
103	Temporary Structures	
104	Erosion Control Drainage Environmental	
106-108	Environmental Coordinator Water/Erosion Control Air Quality Decontamination/Hazardous Materials	
109	Field Office	
110-199	"Dirt" Earthwork Roadway Erosion Control Topsoil/Vegetation	
200-299	Base Courses	
300-399 except 346-347	Surface Courses, Concrete Pavement Concrete	0100 Structures or 0200 Roadway
400-499 except 425-449	Structures Drainage Structures	0100 Structures 0200 Roadway
500-515	Incidental Construction- Structures	0100 Structures
516-559	Incidental Construction- Roadway Items	0200 Roadway
560-569	Incidental Construction- Structural Paint	0100 Structures
570-599	Incidental Construction- Turf & Landscaping	0200 Roadway or 0600 Landscaping
600-699	Traffic Control Devices (Signals & ITS) Conduit and other "common use" items	0500 Signals Other categories, as needed
700-714	Traffic Control	0300 Signing
715	Traffic Control- Lighting	0400 Lighting
720-740	Incidental Construction- Other	0200 Roadway
741-749	Incidental Construction- Traffic Monitoring (TMS)	
750-770	Incidental Construction- Other	
800-899	Mass Transit (Railroad)	0900 Mass Transit
1000-1999	Utilities	0700 Utilities

NOTE: While pay item ranges are generally grouped by category, some items may be used in multiple categories. Refer to the specific items for details.

Bridge Category Header: The bridge header requires information specific to each structure. **Each bridge must be loaded into a separate structures category**, with details specific to that bridge. With each bridge category, the Designer Interface requires that the bridge category header information, specifically the bridge ID, be entered prior to loading/editing pay items. The following fields must be completed:

Alternate Code: leave blank unless using alternate structures. Contact your District Estimates Office for assistance when considering alternate structures.

Bridge Length (feet): Enter the total bridge length, not including approach slabs.

Bridge Width (feet): For new/replacement bridges or bridge repair, enter the total bridge deck width, from outside to outside of traffic railing. For bridges with variable width, divide the total bridge deck area, outside to outside, by the length to obtain the average width. For bridge widening, enter the widened width.

Number of Spans: Enter the correct number of spans.

Bridge Type (“Structure Type” on some reports): Select the appropriate type. Options include overpass, low level, medium level, high level, moveable bridge, pedestrian overpass, box culvert, miscellaneous, and ramp overpass.

- Box Culvert is ONLY for bridge culverts greater than 20'; box culverts not meeting bridge definition should be loaded in Roadway Category, regardless of where plan sheets are located.
- Retaining Walls are loaded in Roadway Category, regardless of where plan sheets are located.
- Pedestrian overpass must have bridge ID, due to “over roadway” condition. Pedestrian “trail” bridges may be loaded in roadway, if they are not designed for vehicular weights and do not need to be inspected. Coordinate with District or CO Bridge Maintenance to determine if “trail bridge” is assigned a bridge ID.

Bridge ID: Enter the valid bridge number. For bridge replacements, use the new bridge ID (replacement) number, not the “existing” or old number.

Note that the Structures Detailing Manual (also referenced by the PPM/FDM) recommends that the bridge ID be obtained in the early design phase. By phase 2 and phase 3 submittals, as defined in the PPM, this information must be known in order to correctly complete the bridge category information.

DO NOT ENTER invalid bridge ID numbers or alpha characters. Contact the District Maintenance Office to obtain a valid bridge number for any structure, including Pedestrian Bridges or other structures that may be subject to inspection.

Pedestrian bridges over travel lanes are subject to inspection. Other pedestrian bridges will be considered on a case-by-case basis, depending on the location and anticipated loading. Contact the Maintenance Office for guidance.

Bridge Designer: Select the applicable coder for the design firm.

Superstructure Type: Select the appropriate type; for box culverts, select “Concrete Box (Cast-in-Place)”.

Substructure Type: Select the appropriate type; for box culverts, select “Other”.

Foundation Type: Select the appropriate type; for box culverts, select “Special”.

Structure Location: Select the appropriate type.

Structure Work Type (“Type of Work” on some reports): Select the appropriate type: New Bridge Construction, Bridge Widening, Bridge Repair, Retaining Walls only (not used), Fender System Only, Rail Retrofit, Miscellaneous. For Pedestrian overpass or Box Culvert, select “Miscellaneous”.

Structure Work Class (“Actual Work” on some reports): Select the appropriate Structure Work Class from the following:

New Bridge Construction Structure Work Classes:

01A	Major Bridge – Bascule Spans
01B	Major Bridge – Curved Steel Girders
01C	Major Bridge – Multi-Level Roadways
01D	Major Bridge – Concrete Segmental Construction
01E	Major Bridge – Steel Truss Construction
01F	Major Bridge – Cable Stayed Construction
01G	Major Bridge – Over Water (Bridges of conventional construction which are over a water opening of 1,000 feet or more)
01H	Major Bridge – Cast in Place/Post-Tensioned/Super-Structure
02	Minor Bridges (have span lengths not exceeding 50 feet center to center of cap and total length not exceeding 300 feet) (includes Concrete Box Culverts with a span length 20 feet or greater)
07	Intermediate Bridges (contain none of the types of construction listed under Major Bridges and have span lengths exceeding 50 feet center to center of cap)

Bridge Repair and Rehabilitation Structure Work Classes:

08	Bascule Bridge Rehabilitation
30F	Bridge Painting
30L	R&R Minor Bridges (have span lengths not exceeding 50 feet center to center of cap and total length not exceeding 300 feet) (includes Concrete Box Culverts with a span length 20 feet or greater)
30M	R&R Intermediate Bridges (contain none of the types of construction listed under Major Bridges and have span lengths exceeding 50 feet center to center of cap)
30N	R&R Major Bridge – Multi-Level Roadways
30O	R&R Major Bridge – Concrete Segmental Construction
30P	R&R Major Bridge – Steel Truss Construction

30Q	R&R Major Bridge – Cable Stayed Construction
30R	R&R Major Bridge – Over Water (Bridges of conventional construction which are over a water opening of 1,000 feet or more)
30S	R&R Major Bridge – Curved Steel Girders
30U	Cathodic Protection
30Y	Bridge Deck Overlay

After loading all bridge header information through the Designer Interface, verify the project and category header information by running the Project Edit Report.

Box Culverts, LESS THAN 20’: Pay items and quantities for box culverts that do NOT meet the Bridge definition are to be **loaded in the Roadway Category**. Follow the FDM instructions for placement of the box culvert details and summary box in the structures plans.

Pay Item Header: Pay Item header information (description, unit of measure, etc.) is maintained by the State Program Management Office, Estimating Systems Support section. Any errors in the pay item header should immediately be brought to the attention of the BOE Coordinator in the State Estimates Office.

If the pay item description does meet the project needs, refer to Chapter 6 for Requesting a New Pay Item. Additional items can be created within 24 hours, pending approval of the specifications. See below for additional information regarding pay items.

Supplemental Description for Lump Sum Pay Items: Supplemental Descriptions are required to differentiate lump sum items on projects and proposals. For most lump sum pay items, designers must enter the project's FPID in the Supplemental Description through Designer Interface. For structures lump sum pay items, designers must enter the project's FPID and Bridge Number in the Supplemental Description through Designer Interface.

The Supplemental Description provides a reference for each lump sum pay item to the corresponding project and/or structure. Supplemental Descriptions are used for lump sum pay items having both lump sum as the secondary unit of measure, such as 101-1 Mobilization (LS/LS), and lump sum pay items having a secondary unit of measure, such as 110-1-1 Clearing and Grubbing (LS/ AC).

Do not add supplemental descriptions to other pay items, as this will prohibit the pay item from “rolling up” for bidding purposes.

9.3.3 Leading Zeros

Leading zeros for pay items are optional, except as required by the PrP system. Refer to Chapter 10 for additional guidance on pay item formatting in the plans and specifications.

Designer Web Pages / Summary of Pay Items: When entering pay items 50- through 999 into the system, a leading zero must be added before the first group of digits, i.e. 102- 1 becomes 0102- 1. (A leading zero replaces the leading space **only** in

the first group of digits.) Metric items and English Utility items are unaffected, as they already have four numbers in the first group of digits.

Other Documents: The plans, specifications, standards, and other documents, including the BOE, will continue to refer to the pay item numbers without the leading zero.

9.3.4 Alternates

If there is a need to consider alternate categories and/or alternate pay items, contact your District Estimates Office for assistance. Additional coordination may be needed with Contracts Administration for any innovative contracting.

9.3.5 Participating/Non-Participating Field

The column labeled “Non-Part” within the designer interface screens and reports is an indicator or “flag” for those items not participating in the major funding group. **Designers are no longer able to change this field.** Please consult with your District Estimates Engineer if unusual funding is anticipated.

9.3.6 Pay Items, Category, and Component Plans

Pay items within a category must correspond to the work shown in the component plans. For example, the signals items shown in the signals category/summary of pay items must correspond to the work shown in the signals plans.

Category totals are used for reporting purposes. Ensure that all work shown in a category uses the appropriate items for that category. Additional reminders are as follows:

For landscaping- all work must be detailed in the plans.

For structures- each bridge must be entered separately. All work associated with each structure must be entered accordingly.

For Signals- use signals pay items.

For lighting- use lighting pay items.

Note: Some pay items are valid in multiple categories, such as conduit or pull boxes. Some items are separated by category and specification, such as pavement markings. Select the pay item appropriate for the category and work to be completed. Refer to the specifications for materials and installation requirements.

When a project does not have a roadway component (structures only, signals only, landscape only, etc.), the “roadway” pay items are loaded into the category that corresponds with the primary component plans. For example, Mobilization and Maintenance of Traffic are included in the signalization component plans & category of a “signalization project” without roadway plans. The pay items within a category will continue to correspond to the work shown in each of the component plans.

Additional details may be included with specific pay items and/or summary boxes.

9.4 Reports

9.4.1 General

Many of the reports are available to any user with access to the Reports Menu. The reports listed below are generally used by the Designer, with the “Designer” role. Users may not have access to all of the reports listed below.

The following definitions are important:

Project: A single project, with appropriate Financial Project number, header information, funding, items, etc.

Proposal: One or more projects combined for the purpose of creating a contract for letting. Projects are “strung” only when combined to form a proposal. The District Estimates Office, according to district practices, will create proposals.

9.4.2 Project Edit Report

The **Project Edit Report is the single most important report.** It should be run at the project level after updating any items or quantities, after an update bulletin, or after a project has been idle or “shelved” for a period of time. In addition to listing the current items and quantities, this report will provide an item check based on the proposed letting date. For projects with a structures category, this report **MUST** be used to review structures header information.

9.4.3 Master Pay Item List

Designers are encouraged to use the Master Pay Item List from DQE. This report is generated from a “live” database and is the primary source of all pay items. The Webgate Master Pay Item List is a list of items currently available in PrP. It also includes valid (effective/obsolete) dates, a Spec flag, and a Reference Price. Additional items are opened upon request; refer to Chapter 6 for additional information.

Note: The Reference Price is for general information only. It is based on a weighted average, with extreme high/low values removed. It should **NOT** be used for project estimates, without consideration of other project conditions.

9.4.4 Summary of Pay Items

After the District Estimates Office has created a proposal, the Designer will be able to select a Proposal Summary of Quantities from the Reports menu. After entering the proposal number, a report (.txt format) will be sent to the CADD ftp site. The designer can download and import the file according to established CADD procedures.

For early phase reviews (up to Phase III, or until the proposal has been created), the Project Summary of Quantities Report must be used. (No proposal, no proposal report.) If multiple projects are anticipated to be let together, the Designer should be sure to print each project’s Summary of Quantities for review. These reports may be printed on standard 8.5” by 11” paper.

For later phase reviews Phase III, or after the proposal has been created), the Proposal Summary of Quantities Report should be used. After the Designer submits the

report from the interface menu, the output will be sent to the CADD ftp site in 5-10 minutes.

Note: While the user enters the project number, the system will provide the appropriate project/proposal report.

2021 FDM: For projects following the 2021 FDM, the Summary of Pay Items is no longer included in the plans. See **BOE Chapter 3** and the **FDM** for additional guidance on phase reviews.

9.4.5 Item Average Unit Cost, by Item

This report will provide historical project information for specific pay items. Note: The pay items must be entered individually, rather than as a group. This report is helpful when detailed project information is needed for a specific pay item.

9.4.6 Item Average Unit Cost, by range

This report provides a historical average for a pay item range, over a specified date range. This report is helpful when general price information is needed for selected pay item(s).

9.4.7 Custom Reports

The State Program Management Office has the ability to create and/or run custom reports for user specified criteria. Please contact your District Estimates Office if custom reports are needed.

Note: Pricing for individual projects does not require a custom report. Pricing (Authorization and Official Estimate) before the letting is completed by the District Estimates Office using DQE. Design estimates should be project specific- based on specifications, location, market area, materials, quantity, equipment, labor, and other related factors.

Chapter 9 Revision History

11-1-20: Updated header dates for 2021. Changed footer from “Webgate, PrP and Designer Interface” to “Applications for Designers”. Updated reports information, including 2021 FDM guidance. Updated screens/sample graphics.

1-9-20: Added Class 30U for Cathodic Protection to table of Structure Work Classes.

11-1-19: Updated header dates for 2020. Added text to 9.3.1 for locked project. Removed table of contents.

12-1-18: Updated header dates for 2019. Updated Bridge Type/Structure Type instructions.

2-19-18: Updated Bridge Header information in 9.3.2.

10-30-17: Updated header dates for 2018 edition. Added additional text for bridge ID number and pedestrian bridges. Added text for loading box culverts, less than 20’.

Leading Zero reference in 9.3 updated to include reference to Chapter 10 for pay item

formatting.

9-6-17: Added Supplemental Description information, per Program Management Bulletin 16-02.

5-10-17: Added Structure Work Class to 9.2.2 Bridge Category Header; revised Category/Design Groups.

10-25-16: Updated header dates for 2017 edition. Updated web addresses and Program Management Office title. Removed TRANSPORT references; included PrP references, as needed.

12-30-14: Updated header dates for 2015 edition. Updated note in 9.1. Added last sentence to 9.3.6 to indicate that additional information may be specific to a pay item or summary box.

4-30-14: Updated header dates for 2014 edition. Updated hyperlink.

2-20-13: Updated header dates for 2013 edition. Added note to 9.1 General to indicate software development is ongoing.

11-23-11: Updated header dates for 2012 edition. Added note to 9.1.

11-23-10: Updated header dates for 2011 edition. Added note to 9.1 General about pending webTrnsport.

10-30-09: Updated header dates for 2010 edition. Updated formatting for section & subsection titles.

1-27-09: Expanded 9.3.6 to include instructions for projects without roadway component plans.

10-1-08: Updated header dates for 2009 edition.

10-1-08: Updated 9.3.6 Pay Items, TRNS*PORT Category, and Component Plans to include examples of items/category usage.

Chapter 10

Formatting Pay Items

10.1 General

The purpose of this Chapter is to assist with maintaining the pay item structure and associated documentation. It will also assist users with understanding how/why pay items are formatted and displayed in the plans.

Pay items begin as a request, in accordance with Chapter 6. A complete request will provide the information needed to complete all fields for the pay item's format. Incomplete requests must be addressed, prior to implementation of the pay item(s).

This chapter is a guide for creating new pay item structures. It is not a restriction on how they may/may not be used. Each pay item group should be evaluated based on the many needs of our customers: Design, Estimates, Construction, Maintenance, Traffic Operations, Contracts, and Management. Note that the needs of one group may be considerably different than those of another. Communication between these groups is essential, whenever a new pay item request is evaluated.

10.2 Format / Legend

The pay item fields, are shown in the following format:

Structure ID Detail		
Structure ID	Title	Plan Quantity?
	Unit	
Notes	Important Notes or Dates	
Details	Details and usage recommendations	
Plan Summary Box	Summary Box title	
References		
PPM/FDM Chapter(s)		
CPAM Chapters		
Other		
Standards		
Specifications		
Structure	Item Description	Unit
Pay Items	Pay Item Year, Item Number, Description, Unit, Spec Type, Valid Date, and Obsolete Date	

Each of the above fields are described below:

Structure ID: Each 10 digit Pay Item is structured into three parts: 1234-567-890. Spaces and/or digits may be used to detail an item.

Within the first group (first 4 digits),

- the leading digit indicates the unit system:
 - 0, 1, 9, E: US Customary Units
 - 2, 3: Metric Units (not currently maintained in BOE)
- the remaining digits (second through fourth digits), identify the applicable Specification Section.

The remaining groups (fifth through tenth spaces/digits), are descriptive fields, as detailed for each item. These variables are described in the pay item structure below.

Note: the 900 series items are special, developmental, and/or project specific. See the applicable pay item group for more information. The middle group of digits may identify the applicable Specification Section.

Title: The structure level description of the pay item group. Whenever possible, the title should use common terminology. This description may be abbreviated on some reports, due to space constraints. The complete, "Long Description", is used whenever possible.

Unit: Unit of measure and precision (decimal places) are defined in Chapter 2. When secondary units are shown, they are intended for estimating purposes, and should be documented in the Summary Box or Tabulation Sheet as instructed.

Plan Quantity?: Indicator (Yes or No) that this item is, or is not, designated to be paid under the Plan Quantity concept, per Article 9-1.3.2 of the Specifications. The pay item's applicable specification section will identify measurement and payment details.

Important Notes or Dates: Many pay items are opened or blocked with an effective/obsolete letting date. Verify that the applicable dates correspond a project's scheduled letting date. The Designer Interface and/or reports will verify valid dates for selected pay items.

Important dates are normally shown in this field for 1 year after implementation of a change. Longer or shorter durations may be used, based on the change and number of projects impacted.

Detail: Description of the most common usage of the pay item, intended to assist designers with the selection of pay items. Also includes, when necessary, detailed information useful to the designer for calculating quantities and determining related pay items. Text may include "Use When...", "Do not use when...", or "Estimate xx items per...".

Comments from any BOE user are welcome to enhance this information. Details must follow current Specifications, Standards, or other FDOT documents.

References- FDM Chapter, SDGs, Other: Links are provided to applicable FDOT Design Manual Chapter(s), Structures Design Guidelines, or other design references.

Standards: Indicates the index sheet number(s) for the applicable Standard Plans. When the index number is listed in the pay item description, the pay item **must** be used in accordance with the referenced standard. Contact the BOE Coordinator and/or Responsible Office for non-standard applications. Non-standard applications may be required to use a different pay item number, due to differing cost history.

Specifications: Links are provided to the current Standard Specifications (Specifications eBook), applicable specification section, and/or the specifications library. These links are for reference purposes only; the designer is responsible for using applicable specifications, as available from the State Specifications Office, for the project's letting date. Contact your District Specifications Office for further assistance.

10.3 Pay Item Structure

The Pay Item Structure may vary between items, but the intent is to define the operation and variables needed to pay for the work and/or materials provided. Additional operations may be added as needed.

10.3.1 Common Operations

Valid operations and numbering may vary by item (some operations may not be valid; additional operations may exist):

- 1 (Furnish & Install)
- 2 (Furnish)
- 3 (Install)
- 4 (Replace)
- 4 (Relocate)
- 4 (Repair)
- 5 (Adjust & Modify)
- 6 (Remove)
- 7 (Preventative Maintenance)
- 8 (Diagnostic and Minor Repair)
- 9 other item specific operation, as needed

The specifications normally describe furnish & install operations. For all other operations, always verify that the specifications/plan details correctly and

completely describe the work to be completed. Refer to Chapter 7 for assistance with determining if a Technical Special Provision (TSP) or plan detail is needed.

FURNISH & INSTALL: Includes all work and materials necessary for a complete installation in accordance with the contract documents (plans, specifications, standard plans, etc.).

FURNISH: This operation is valid for very few pay item groups. Approvals by the responsible office may be required for each project. Do not furnish additional items to DOT maintenance yards using construction funds. When requested, and funded by the maintaining agency, the furnish only item may be used. Plans or specifications must detail instructions for delivery of item(s) to the maintaining agency. Do not use separate “Furnish” and “Install” pay items for the same item of work.

INSTALL: To be used ONLY when the item is to be furnished by the Department or other maintaining agency. Plans or specifications should clearly identify the item(s) to be installed, pick-up/delivery instructions, as well as installation instructions. Payment includes any incidentals necessary (furnished by the Contractor) for a complete installation.

RELOCATE: Ensure that the existing item is in good condition; may not be cost effective to relocate an old/obsolete item. Plans or specifications should clearly identify the item and initial/final locations. As needed, detail the incidental items (included in relocate item payment) to be furnished by the Contractor for a complete installation. Clearly identify conditions under which item replacement (damaged by contractor) is needed.

ADJUST/MODIFY: Detail minor work to be completed by the Contractor. Incidental items are to be furnished by the Contractor. This operation may include retrofits.

REHABILITATE: Includes the removal and replacement of an item, as detailed in the contract documents. Designer should ensure that materials and installation instructions are available to the contractor.

REMOVE: Plans or specifications should identify if contractor is to take ownership, stockpile, or deliver item(s) to a FDOT maintenance yard.

PREVENTATIVE MAINTENANCE: Work to be completed to extend the useful life of a product, as allowed by Federal Highway Administration (FHWA). This does not include routine maintenance, such as litter removal, mowing, or graffiti removal. Details must be included in the contract documents to describe the work to be completed.

PLUG & PLACE OUT OF SERVICE: Plans or specs should identify materials and work to be completed.

DIAGNOSTIC AND MISCELLANEOUS REPAIR: This is normally a maintenance operation to determine the work required to return an item to full working order. If components or assemblies are needed to complete the repair, they will be paid under related pay items, i.e. Furnish & Install, Replace, or Install.

SPECIAL/CUSTOM: To be used only when there is a significant deviation from the standard item or work to be completed: existing specifications and/or standards do not apply. Complete details including description, materials, installation, maintenance, method of measurement, and basis of payment are to be included in the plans or specifications. Project Specific Pay Items may be recommended for unique situations.

10.3.2 Equipment and Materials

When there is a need for the design to specify the equipment and/or materials to be installed (i.e. solar versus AC power, or standard versus preformed thermoplastic), the equipment or materials may be included within the pay item structure. Selection guidance should be available in the supporting documentation or handbook, to ensure consistent use of the item.

If no selection guidance is available, all equipment and material options, per the specification, should remain a contractor option.

10.3.3 Construction Means and Methods

For most specifications, acceptance criteria is based on the end result or performance criteria; the contractor's means and methods, equipment used or how something is installed, is not a factor. The pay item structure should not differentiate various means and methods, unless the approved specification includes these requirements.

Project specific pay items may be used when approved specifications identify means and methods that will likely cause significant bid price variations.

10.3.4 Maintenance Office Contracts

Maintenance Office contracts deviate from normal construction contracts, due to different specification needs. Some pay items are reserved for Maintenance Use Only, and are supported by Maintenance Specifications. When pay items are identified for Maintenance use, ensure that contract needs and applicable specifications are available/applicable, as needed.

10.4 Pay Item Ranges and Other Variables

The pay item structure #####-abc-def, should be used to define parameters which affect the price (i.e. size, shape, material), where variables a through f are detailed as needed. Parameters which do not affect the price may be detailed in the plans; DO NOT create additional pay item variables for these parameters. Limited structures can be used to encourage price competition between products that perform similar functions and/or provide similar end results (i.e., more items, less history per item).

Ranges are established to combine items/sizes with similar installed costs. When a pay item range is used, the designer must specify the specific size/shape needed on the plans and/or tabulation sheet(s). Ranges are not intended as a “contractor’s option”.

For most reports, including the Master Pay Item List, Project Edit Report, and Pay Item Summary, descriptive information, such as size, shape, and color, will be included after the primary description. The title and/or description may include abbreviations when the pay item is created.

Currently open pay item numbers are shown following the pay item structure. For additional information on opening or requesting new pay items, refer to Chapter 6.

10.5 Displaying Pay items in the Plans and other contract documents

10.5.1 General

Pay item numbers and descriptions may vary, depending on where it is displayed and the available space. When referring to a **group of pay items**, the Pay Item Structure (123- 1- AB) is normally used with the variables omitted (123- 1-). When referring to **individual pay item numbers**, the complete Pay Item Number (123-1-11) is used with the full pay item description. Below are some exceptions and guidelines.

10.5.2 Displaying Pay Items in Specifications

Specifications normally apply to an entire **group of pay items**. Therefore, only the group level of the Pay Item Structure is shown in the specification (123- 1-) with the group level description. Letters for the pay item variables are not included with the specification.

10.5.3 Displaying pay items from Applications or Reports

Reports normally apply to specific **pay item numbers**. The complete pay item number should be used with the pay item’s description. The complete pay item

description should be used, as shown in the Master Pay Item List (long description). NEVER alter the application's report/output; do not change report content or format.

10.5.4 Displaying pay items in Plans (Summary of Pay Items Report, Summary Boxes, Tabulation Sheets, and Notes)

2021 FDM: For projects following the 2021 FDM, see additional guidance in **BOE Chapters 3 and 8**. The Summary of Pay Items will not be included in the plans. The Summary Tables within the Estimated Quantities (EQ) Report will replace the Summary Boxes and Tabulation Sheets.

The Summary of Pay Items, normally located behind the Key Sheet and/or Signature Sheet, is a report. Do not alter the pay item format or any associated quantities. If changes are needed, complete the change(s) through the appropriate applications and re-run the report. Note that leading zeros and appropriate spaces are included with pay item numbers. Dashes are not included with these pay item numbers.

Summary Boxes may be a combination of CADD generated data and user input data with formatting. Quantities are summarized by pay item number, per BOE Chapter 8. The pay item description may be abbreviated by CADD software, depending on space available. Leading zeros and/or dashes may be included, at the designer's option, but should be consistent throughout the summary boxes.

When pay items are shown in the plans, a dash and/or space is normally used to separate the numbers, as shown in Chapters 11-20. When referring to a pay item group in the plans or specifications, the variables may be omitted, with only the numerical part of the pay item structure included; these should also follow the pay item structure shown in Chapters 11-20. When referring to a specific pay item number, the complete number should be shown.

Some applications and reports (CADD, Designer Interface, or other) may omit the dash in their default formatting. The spaces within a pay item number, or lack thereof, have significance in these situations, and **MUST** be retained. The designer must **NEVER** manually add or delete a dash or space from a report or application output.

10.6 Changing/Updating Pay Item Descriptions in the Master File

In general, pay item descriptions cannot be changed or updated, due to the impact on the historical database and previously let contracts. Minor clarifications will be considered, depending on the scope of the change and project impact. Contact the Basis of Estimates Coordinator for item specific concerns.

10.7 Where to Find It

As noted above, the first 3 digits of the pay item corresponds to the applicable specification section. The following table is helpful for finding the pay item group. Note that it does not include all possible section numbers; it is only a guide to help identify “Where to find it...”

Pay Item Group/ Specification Section	Description, including key words for searches
101	Mobilization
102	Maintenance of Traffic
104	Erosion Control
107	Litter Removal and Mowing
110	Clearing and Grubbing
120-175	Excavation, Embankment, and other Earthwork
200s	Base Courses
300-341	Bituminous Mixtures, Milling, Superpave, Friction Courses
346-347	Portland Cement Concrete
350-353	Concrete Pavement
400	Concrete Structures
415	Reinforcing Steel
425-449	Drainage: Inlets, Manholes, Junction Boxes, Pipe, Trench Drain, Underdrain, French Drain, Edgedrain
450	Precast, Prestressed Concrete
455	Structures Foundations: Piling, Drilled Shafts
470	Timber Structures
508-510	Movable Bridges: Navigation Lights, Machinery
520s	Concrete Gutter, Curb, Barriers, Traffic Separator, Sidewalk
523	Patterned/Textured Pavement
530	Riprap
534	Sound Barriers
536-538	Guardrail
550	Fencing
555-557	Directional Bore, Vibratory Plowing, Jack & Bore
570-580	Grassing, Seeding, Sodding, Landscaping, Trees, Plants
600s	Signalization: Conduit, Mast Arms, Detectors, Cabinets
700-705	Signing, Delineators
710-714	Pavement Markings: Paint, Thermo
715	Lighting: Poles, Conduit (see also 630 for conduit)
800s	Mass Transit
900s	Special, Developmental, Trial Items

10.8 Errors, Omissions, Comments

The Engineering Systems Support Section of the State Program Management Office maintains the Basis of Estimates, Pay Item Structure, as well as the Master Pay Item List(s). Details, notes, and documentation information is based on information provided with the pay item request. When a detail is missing or incomplete, you may contact the BOE Coordinator, or submit a recommendation via e-mail. Links are provided within the BOE pages on the Specifications and Estimates Office web pages at <http://www.fdot.gov/programmanagement> . While we make every effort to provide the most current information, please note that pay items and related FDOT handbooks/manuals are continuously developing.

If an error is found with any of the BOE content, please notify the BOE Coordinator. Comments and suggestions are appreciated.

Chapter 10 Revision History

11-1-20: Updated header dates for 2021 edition. Minor editorial changes. Expanded 10.3 to include Materials, Means & Methods, and Maintenance text. Expanded 10.5.4 to add reference to 2021 FDM changes. Updated references to existing reports and new Estimated Quantities Report.

11-1-19: Updated header dates for 2020 edition.

12-1-18: Updated header dates for 2019 edition.

10-31-17: Updated header dates for 2018 edition. Editorial changes throughout Chapter. Removed fields associated with obsolete computation books. Updated references to PPM/FDM and Design Standards/Standard Plans. Moved Tech Spec information to Chapter 7. Expanded 10.5 for displaying pay items in plans and other documents.

8-5-16: Updated header dates for 2017 edition. 10.2 Specifications: Specification links added to most pay items in DQE. Updated pay item structure information to match DQE screens.

2-1-16: Updated header dates for 2016 edition.

12-30-14: Updated header dates for 2015 edition. Added 10.5 for displaying pay item numbers in plans and specs; renumbered remaining sections.

4-30-14: Updated header dates for 2014 edition. Updated 10.3 for commonly used operations. Updated hyperlink.

2-20-13: Updated header dates for 2013 edition.

10-23-12: Added operations to 10.3, per meeting with Maintenance, Construction, and Roadway Design Offices.

9-17-12: Added typical detail for Rehabilitation operation.

11-1-11: Updated header dates for 2012 edition.

2-1-11: Clarified 10.3 relocate and other operations requiring Tech Spec or plan details. Corrected numbering on 10.4 and 10.5.

11-23-10: Updated header dates for 2011 edition. Added reference to Chapter 7 in 10.2, Plan Details.

10-30-09: Updated header dates for 2010 edition.

- 9-16-09:** Added 10.3 Pay Item Structure, with guidance on common operations. Corrected Office and web links to “State Specifications and Estimates Office”.
- 1-28-09:** Expanded 10.2 to include TRNS*PORT Category.
- 10-1-08:** Updated header dates for 2009 edition.