

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

35	<a href="#">Summary of Ditch Pavement</a>	<a href="#">Examples</a>
36	<a href="#">Summary of Guardrail</a>	<a href="#">Examples</a>
37	<a href="#">Summary of Cable Barrier</a> (Pending)	<a href="#">Examples</a>
38	<a href="#">Summary of Permanent Crash Cushions</a>	<a href="#">Examples</a>
39	<a href="#">Summary of Fencing</a>	<a href="#">Examples</a>
40	<a href="#">Summary of Performance Turf</a>	<a href="#">Examples</a>
41	<a href="#">Summary of Traffic Monitoring Site Items</a>	<a href="#">Examples</a>

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

<sup>2</sup>Structures 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: 999999-5-52-0
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.

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.

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

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.

[illegible]

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

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

[illegible][illegible]



## 102: Traffic Control

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.

[illegible]

## 102: Traffic Control

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.

[illegible]

102: Traffic Control

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 PEDE STRIAN LONGITUDINAL CHANNELING DEVICES								
CONST. PHASE	LOCATION			SIDE	QUANTITY		DE SIGN NOTES	CON STRUCTION RE MARK S
					0102 74 7			
	STA. TO STA.				LF			
	P		F					

## 102: Traffic Control

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	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		
SUB-TOTAL															
		TOTAL						TOTAL							

## 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.

[illegible]

## 102: Temporary Crash Cushions

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 1		
								P	F		
	</										

## 104: Erosion Control

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.

[illegible]

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

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																		
CONST. PHASE	LOCATION  STA. TO STA.	SIDE	DURATION (DAYS)	FREQUENCY (DAYS)	LITTER REMOVAL						MOWING						DESIGN NOTES	CONSTRUCTION REMARKS
					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														
					SUB-TOTAL					SUB-TOTAL								
					TOTAL					TOTAL								

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

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.



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.

### 110: Removal Items

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

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.

[illegible]

## 110: Mailboxes

This form is intended for use with mailboxes.

[illegible]

## 120: Earthwork

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.

[illegible]

### 140s and 400s: Geotechnical

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.

■ ■

[illegible]

## 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

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

[illegible]

## 400s: Structures

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.

Retaining Walls and Gravity Walls should be shown on the Summary of Walls. Refer to the Structures Detailing Manual for additional guidance.

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.

Steps should be shown on the Summary of General Items or the appropriate tabulation sheet for landscaping or architecture.

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 STATION	UNIT	QUANTITY		TOTAL		DESIGN NOTES	CONSTRUCTION REMARKS
				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 STATION	SIDE	UNIT	QUANTITY		TOTAL		DESIGN NOTES	CONSTRUCTION REMARKS
					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.





8-25





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.

[illegible]

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

Identify each driveway, by location.

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

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

[illegible]

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

[illegible]

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

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

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



[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.

[illegible]

## 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 3<sup>rd</sup> 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](mailto: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
					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	NH			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	8			
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				
			DAYS	P	P	P	F		
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.

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

[illegible]

**PENDING:**

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

## Summary Boxes

## 5. Summary of Temporary Highway Lighting

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

**Correct:** Spacing may be indicated in the design notes column. P column will indicate 1 LS total; secondary units for EA must be completed.

[illegible]

**Incorrect:**

## 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	SIDE	QUANTITY		DESIGN NOTES	CONSTRUCTION REMARKS
	STA. TO STA.		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	SIDE	COMMERCIAL MATERIAL FOR DRIVEWAY MAINTENANCE					DESIGN NOTES	CONSTRUCTION REMARKS
STA. @ C/ OF DRIVEWAY		L	W	THK	CY			
		FT	FT	IN	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	0102 3			
				CY			
			IN	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	SIDE	AREA ID	ARTIFICIAL COVERINGS / ROLLED EROSION CONTROL		SEDIMENT BARRIER		FLOATING TURBIDITY BARRIER		SOIL TRACKING PREVENTION DEVICE		INLET PROTECTION SYSTEM		DESIGN NOTES	CONSTRUCTION REMARKS
STA. TO STA.			104 1		0104 10 3		0104 11		0104 15		0104 18			
			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											1		
1407+52.74 R2 to 1407+54.78 R2	LT											1		
1407+64.39 R2 to 1407+66.43 R2	RT											1		
1411+01.08 R2 to 1411+03.12 R2	RT											1		
1411+33.99 R2 to 1411+36.03 R2	RT											1		
1411+35.28 R2 to 1411+37.33 R2	LT											1		
1414+70.92 R2 to 1414+72.97 R2	RT											1		
1414+90.54 R2 to 1414+92.59 R2	LT											1		
1415+04.03 R2 to 1415+06.08 R2	RT											1		
1415+04.74 R2 to 1415+06.78 R2	LT/RT											1		
1418+05.39 R2 to 1418+07.43 R2	LT/RT											1		
1418+31.29 R2 to 1418+33.33 R2	RT											1		
1418+65.40 R2 to 1418+67.44 R2	RT											1		
1419+57.24 R2 to 1419+59.29 R2	LT											1		
1420+58.92 R2 to 1420+60.96 R2	LT											1		
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.

Summary Boxes



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	
STA. TO STA.		0104 10 3		0104 11		0104 15		0104 18			
		LF		LF		EA		EA			
		P	F	P	F	P	F	P	F		
455+13.34 to 455+13.55	LT.	61.9								SYNTHETIC BALES	
458+15.84 to 458+17.08	LT.	62.8								SYNTHETIC BALES	
458+87.25 to 458+87.78	RT.	62.8								SYNTHETIC BALES	
460+01.33 to 460+02.05	LT.	62.8								SYNTHETIC BALES	
462+33.50 to 462+37.10	LT.	60.5								SYNTHETIC BALES	
465+00.90 to 465+02.63	LT.	62.8								SYNTHETIC BALES	
466+94.95 to 466+95.34	LT./RT.	62.8								SYNTHETIC BALES	
469+93.39 to 469+98.63	LT.	62.8								SYNTHETIC BALES	
470+47.70 to 470+52.36	LT.	62.8								SYNTHETIC BALES	
488+18.78 to 488+23.71	LT.	61.1								SYNTHETIC BALES	
493+29.51 to 493+30.09	RT.	65.8								SYNTHETIC BALES	
516+69.45 to 516+70.07	LT.	69.3								SYNTHETIC BALES	
309+38.76 to 320+75.00	LT.	1137.9								STAKED SILT. FENCE	
321+30.00 to 348+20.00	LT.	2654.2								STAKED SILT. FENCE	
322+24.85 to 348+80.00	RT.	2680.7								STAKED SILT. FENCE	
1348+79.98 to 1399+76.12	LT.	5089.4								STAKED SILT. FENCE	
349+20.00 to 400+17.40	RT.	5114.5								STAKED SILT. FENCE	
1402+68.21 to 1446+21.80	LT.	4479.0								STAKED SILT. FENCE	
403+31.69 to 439+70.58	RT.	3539.2								STAKED SILT. FENCE	
441+87.94 to 1445+13.29	LT./RT.	263.3								STAKED SILT. FENCE	
443+76.02 to 449+44.53	RT.	559.6								STAKED SILT. FENCE	
444+04.50 to 1447+20.26	LT./RT.	239.1								STAKED SILT. FENCE	
1448+74.15 to 1464+09.18	LT.	1587.0								STAKED SILT. FENCE	
454+73.46 to 455+32.30	RT.	130.8								STAKED SILT. FENCE	
459+06.86 to 461+58.73	RT.	245.2								STAKED SILT. FENCE	
488+22.11 to 516+78.48	LT.	2632.5								STAKED SILT. FENCE	
497+70.26 to 498+32.23	RT.	126.0								STAKED SILT. FENCE	
502+64.14 to 503+31.40	RT.	129.8								STAKED SILT. FENCE	
504+91.83 to 505+50.01	RT.	120.5								STAKED SILT. FENCE	
1402+79.44 to 1402+87.45	RT.			141.0						FLOATING TURBIDITY	
1444+93.42 to 1446+37.74	LT./RT.			221.2						FLOATING TURBIDITY	
1446+76.10 to 1448+05.92	LT./RT.			226.2						FLOATING TURBIDITY	
440+54.32 to 442+11.90	LT./RT.			221.2						FLOATING TURBIDITY	
442+68.78 to 444+13.04	LT./RT.			226.2						FLOATING TURBIDITY	
311+71.19 to 488+24.15	LT./RT.					8				1 DEVICE PER MILE NB & SB	
305+29.31	RT.							1		INLET PROTECTION SYSTEM	
315+98.84	RT.							1		INLET PROTECTION SYSTEM	
469+30.61	RT.							1		INLET PROTECTION SYSTEM	
471+99.86	RT.							1		INLET PROTECTION SYSTEM	
475+00.30	RT.							1		INLET PROTECTION SYSTEM	
479+01.22	RT.							1		INLET PROTECTION SYSTEM	
488+00.99	RT.							1		INLET PROTECTION SYSTEM	
497+65.12	RT.							1		INLET PROTECTION SYSTEM	
498+62.46	LT.							1		INLET PROTECTION SYSTEM	
505+48.00	LT.							1		INLET PROTECTION SYSTEM	
SUB-TOTAL		31487		1036		8		10			
FINAL PLAN		39203		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	AC/ CYCLE	AREA		AREA ID	CYCLES	AC/ CYCLE	AREA			
								TOTAL (AC)					TOTAL (AC)			
								P	F				P	F		
ALL	27+46.09 to 28+48.06	L7	30	30	17767	3	0.150	0.450								
ALL	27+46.09 to 29+56.83	R7	30	30	17733	3	0.075	0.215								
ALL	30+40.22 to 31+32.20	L7	30	30	17753	3	0.225	0.665								
ALL	30+59.96 to 31+32.27	R7	30	30	17740	3	0.200	0.600								
ALL	27+46.09 to 29+47.34	L7	30	30						17539	3	0.120	0.360			
ALL	27+46.37 to 28+49.31	R7	30	30						17567	3	0.020	0.020			
ALL	30+48.21 to 31+09.80	L7	30	30						17663	3	0.040	0.120			
ALL	30+63.31 to 31+36.94	R7	30	30						17695	3	0.060	0.180			
ALL	30+96.60 to 31+02.29	L7	30	30						17608	3	0.070	0.030			
ALL	31+32.82 to 32+34.84	R7	30	30						17597	3	0.010	0.030			
ALL	32+02.27 to 33+03.81	R7	30	30						17616	3	0.070	0.030			
ALL	33+25.57 to 34+06.51	L7	30	30						17645	3	0.070	0.030			
ALL	33+57.70 to 34+09.91	R7	30	30						17620	3	0.070	0.030			
					SUM-TOTAL		2.37			SUM-TOTAL		0.98				
					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										
	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	541.567						
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	SIDE	AREA ID	LENGTH	WIDTH	DURATION (DAYS)	FREQUENCY (DAYS)	LITTER REMOVAL					MOWING					DESIGN NOTES	CONSTRUCTION REMARKS
								0107 1					0107 2						
	CYCLES							AC/CYCLE	AREA			CYCLES	AC/CYCLE	AREA					
									TOTAL (AC)					TOTAL (AC)					
									P	F				P	F				
ALL	205+00.00 to 264+64.86					230	30	8	5.3	42.4		8	1.37	10.96					
								SUB-TOTAL			42.4	SUB-TOTAL			10.96				
								TOTAL			42.4	TOTAL			10.96				

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				MOWING				DESIGN NOTES	CONSTRUCTION REMARKS
						0107-1				0107-2					
	CYCLES	AC/ CYCLE				AREA		CYCLES	AC/ CYCLE	AREA					
						TOTAL (AC)				TOTAL (AC)					
	STA. TO STA.						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+06.27	LT	60	30	2	1.518	3.035		2	1.208	2.416			
	456+06.27	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					17.101			
TOTAL:							20.38					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					
	CYCLES					AREA			CYCLES	AREA					
						AC /CYCLE	TOTAL (AC)			AC/CYCLE	TOTAL (AC)				
	STA. TO STA.						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)	FREQUENC Y (DAYS)	LITTER REMOVAL					MOWING					DESIGN NOTES	CONSTRUCTIO N REMARKS
					0107 1					0107 2						
	AREA ID				CYCLE S	AREA		AREA ID	CYCLES	AREA						
						AC/ CYCLE	TOTAL (AC)			AC/ CYCLE	TOTAL (AC)					
												P	F	P		
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
	ADDRESS AND/OR STA.		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	STRUCTURE USAGE	INSPECTION & SETTLEMENT MONITORING		DESIGN NOTES	CONSTRUCTION REMARKS
	ADDRESS AND/OR STA.		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				
	STATION	SIDE		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		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				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+01.96	RT	9"	1			
221+18.05	LT	12"	1			
231+89.34	LT	14"	1			
232+62.43	LT	24"	1		MULTI TRUNK	
234+42.82	LT	30"	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+65.95	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				

## 14. Summary of Mailboxes

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

Correct:

SUMMARY OF MAILBOXES					
STATION	SIDE	QUANTITY		DESIGN NOTES	CONSTRUCTION REMARKS
		0110	7 1		
		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)		CONSTRUCTION REMARKS
		P	F	P	F	
0120 1	REGULAR EXCAVATION			572.00		
		572.00				12TH AVENUE
0120 6	EMBANKMENT			4463.00		
		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			2823	
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		
0160 4	TYPE B STABILIZATION	60+41.48 to 66+99.00		LT/RT	35797	SY	5489.10		8988.0			
		66+99.00 to 67+13.25		LT/RT	35843		113.50					
		68+30.75 to 68+45.00		LT/RT	35838		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	5117.80		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 70 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 3 22	SUPERPAVE ASPHALTIC CONCRETE	60+41.48 to 66+99.00		LT/RT	36019	TN	844.44		1379.1			
	(TRAFFIC B, PG 76-22, PMA)	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		7.03					
		68+31.96 to 68+45.00		LT	41539		7.03					
		68+45.00 to 72+61.48		LT/RT	36036		506.42					
0337 7 40	ASPHALTIC CONCRETE FRICTION COURSE	56+17.45 to 60+41.48		LT/RT	36128	TN	164.61		811.7			
	(TRAFFIC B, FC-9.5, PG 76-22, PMA)	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		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		
0327 70 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	SIDE	AREA ID	LENGTH	WIDTH	THICK (IN)	MEDIAN PAVEMENT (TN)		DESIGN NOTES	CONSTRUCTION REMARKS
STA. TO STA.						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	SIDE	THICK (IN)	UNDER GUARDRAIL		DESIGN NOTES	CONSTRUCTION REMARKS
STA. TO STA.			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 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
		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	60.5		175.5		5.5' AVG. HEIGHT	
		65+44.65 - 65+88.50	RT		16.2				5.5' AVG. HEIGHT	
		65+93.83 - 66+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+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+50.54	RT	EA	1.0		10		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	
		91+77.35	LT	EA	1.0				Baseline Survey SA 953	
		93+65.93	LT	EA	1.0				Baseline Survey SA 953	
		95+53.08	LT	EA	1.0				Baseline Survey SA 953	
		96+54.32	LT	EA	1.0				Baseline Survey SA 953	
		98+69.99	LT	EA	1.0				Baseline Survey SA 953	
		10+20.60	LT	EA	1.0				Baseline Survey Alhambra Circle	
		10+67.20	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		
0425-5	START-DATE WATER VALVE ADJUSTMENTS*	94+77.72	LT	EA	1.0		11		Baseline Survey SA 953	
		94+75.24	LT	EA	1.0				Baseline Survey SA 953	
		94+33.73	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	
		10+57.20	LT	EA	1.0				Baseline Survey Alhambra Circle	
		10+70.47	LT	EA	1.0				Baseline Survey Alhambra Circle	
		10+76.26	LT	EA	1.0				Baseline Survey Alhambra Circle	
		10+93.29	LT	EA	1.0				Baseline Survey Alhambra Circle	
		10+53.49	LT	EA	1.0				Baseline Survey Alhambra Circle	
		10+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			

## 24. Summary of Side dDrain and Mitered End Sections

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

Correct:

SUMMARY OF SIDE DRAIN & MITERED END SECTIONS									
LOCATION	SIDE	PIPE LENGTH - LF			MES - EA			DESIGN NOTES	CONSTRUCTION REMARKS
		ROUND			ROUND				
STA. TO STA.		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)	DESIGN NOTES	CONSTRUCTION REMARKS
STA. TO STA.	SIDE	BACK		AHEAD		ROUND		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:						184.0	234.0	4	8	116		
TOTAL:						184	234	4	8	116		

Structure number should be notated in the Design Notes column. Location column should include the station.

SUMMARY OF SIDE DRAIN & MITERED END SECTIONS					
LOCATION	SIDE	PIPE LENGTH - LF	MES - EA	DESIGN NOTES	CONSTRUCTION REMARKS
STA. TO STA.		18" ROUND	18" ROUND		
		0430-174-118	0430-984-125		
440+28.46 TO 440+98.92	LT	52.0			
S-1	LT		1		
449+25.43 TO 449+33.43	LT	8.0			
449+73.45 TO 449+81.45	LT	8.0			
S-2	LT		1		
SUB-TOTAL :		68.0	2.0		
TOTAL :		68	2		



## 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	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			
		CY			
STA.		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:**

LOCATION	SIDE	UNDERDRAIN TYPE II		UNDERDRAIN TYPE V		OUTLET PIPE		DESIGN NOTES	CONSTRUCTION REMARKS
		0440 1 20	0440 1 50	0440 73 1					
		(LF)	(LF)	4" (LF)					
STA. TO STA.		P	F	P	F	P	F		
1161+51.49 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		
								0440 73 1					
STA. TO STA.									6" (LF)				
									P	F			
118+90.36	RT								1.25				
119+20.35	RT								1.25				

## 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  STA. TO STA.	SIDE	EDGEDRAIN		OUTLET PIPE LENGTH	
		0446	1 1	0446	71 1
		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		
		LF		
		P	F	
STA. TO STA.				
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:



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

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		NET LENGTH		P		
						TYPE	LENGTH	P	F				
0520 1 7	CONCRETE CURB & GUTTER, TYPE E	248+32.25 to 249+38.76	LT/RT		LF		113.4		113.4			857	
		248+32.25 to 249+38.76	LT/RT				110.8		110.8				
		253+27.01 to 254+11.57	LT				85.0		85.0				
		253+27.01 to 254+11.57	LT/RT				88.9		88.9				
		257+34.15 to 258+04.00	RT				75.6		75.6				
		257+34.15 to 258+04.00	LT/RT				76.4		76.4				
		258+10.00 to 258+94.53	LT/RT				90.1		90.1				
		258+10.00 to 258+94.53	LT				91.2		91.2				
		266+41.48 to 267+01.84	LT/RT				61.8		61.8				
		266+41.48 to 267+01.84	LT/RT				63.7		63.7				
0520 1 10	CONCRETE CURB & GUTTER, TYPE F	257+93.00 to 258+18.00	RT		LF		25.0		25.0			48	
		257+95.00 to 258+18.00	LT				23.0		23.0				
0520 5 11	TRAFFIC SEPARATOR CONCRETE - TYPE I, 4' WIDE	254+11.57 to 255+26.00	LT		LF		114.4		114.4			598	OPTION 1
		256+20.12 to 257+34.15	RT				114.0		114.0				OPTION 1
		258+94.53 to 260+53.48	LT				159.0		159.0				OPTION 1
		267+01.84 to 269+12.50	LT				210.7		210.7				OPTION 1

Do NOT rename the boxes.

SUMMARY OF CURB & GUTTER										
PAY ITEM NO.	PAY ITEM DESCRIPTION	LOCATION	SIDE	UNIT	QUANTITY		TOTAL		DESIGN NOTES	CONSTRUCTION REMARKS
		STA. TO STA.			P	F	P	F		
0520-1-10	CONCRETE CURB & GUTTER, TYPE F	460+51.90 TO 466+11.77	LT	LF	572.0		572			
		460+49.65 TO 466+11.77	RT	LF	575.0		575			
		SUB-TOTAL:			1147		1147			
		TOTAL:			1147		1147			

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		NET LENGTH		P		
						TYPE	LENGTH	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+41.92	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+17.17 to 66+33.27	LT	33167			7.5							
66+33.27 to 66+99.00	LT	33188			37.5							
68+45.00 to 69+90.00	RT	29061			89.5							
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							
80+44.41 to 80+76.58	LT	20121					23.9					
81+12.88 to 81+45.08	LT	20144					20.0					
81+44.54 to 81+77.46	RT	20110					24.3					
81+50.92 to 81+82.07	LT	20099					25.6					
82+05.92 to 82+38.08	LT	20133					33.4					
82+78.48 to 83+15.52	LT	30421					47.0					
85+83.01 to 86+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	20034					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+16.06	LT	29224					20.6					
72+05.07 to 72+37.08	RT	35215					25.3					
83+33.50 to 83+40.88	LT	40901							13.1			
83+90.23 to 83+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+41.01	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+37.68 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					22.6		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+46.98	RT	13768					14.8		HATFIELD AVE SE	
136+88.02 to 136+96.81	RT	13773					17.3		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	

## Summary Boxes

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	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		
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+03.72 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
STA. TO STA.					TN			TN				SY	
					P	F		P	F			P	F
65+67.50 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			

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

SUMMARY OF GUARDRAIL													
LOCATION	SIDE	GUARDRAIL (W-BEAM)		RUB RAIL (SINGLE FACE)		PIPE RAIL		GUARDRAIL REMOVAL		END ANCHORAGE ASSEMBLY (TYPE II)		DESIGN NOTES	CONSTRUCTION REMARKS
STA. TO STA.		0536 1 1		0536 5 1		0536 6		0536 73		0536 85 25			
		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(LHD)	
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			

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			
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			

## Summary Boxes

**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	SIDE	BARRIER SYSTEM		DESIGN LENGTH	DESIGN SPEED	CRASH TEST LEVEL	HAZARD WIDTH	LENGTH RESTRICTION	CRASH CUSHION	
STATION		CONCRETE BARRIER WALL	GUARDRAIL	FT.	MPH	TL-2 / TL-3	IN.	FT.	0544 75 1	DESIGN NOTES
797+06.01	LT.	X		16	60	TL-3		24.00	P	Bridge # 030075
									F	
SUB-TOTAL:									1	
TOTAL:										

Incorrect:

Missing design length column.

SUMMARY OF PERMANENT CRASH CUSHIONS									
LOCATION	SIDE	BARRIER SYSTEM		DESIGN SPEED	CRASH TEST LEVEL	LENGTH RESTRICTION	CRASH CUSHION		DESIGN NOTES
STATION		CONCRETE BARRIER WALL	GUARDRAIL	MPH	TL-2 / TL-3	FT	0544 75 1		
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 TO 1379+21.70	RT.	LF	24.0		168			
		1379+66.11 TO 1379+53.40	RT.	LF	48.0					
		1399+95.73 TO 1400+25.05	LT./RT	LF	48.0					
		1402+35.26 TO 1402+43.83	LT./RT.	LF	24.0					
		1402+65.03 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	44.0		284			
		321+91.50 TO 322+25.04	RT.	LF	56.0					
		379+45.85 TO 379+53.58	LT.	LF	40.0					
		379+81.58 TO 379+92.86	LT.	LF	48.0					
		400+31.82 TO 400+61.95	LT./RT.	LF	40.0					
		402+62.83 TO 402+75.33	LT./RT	LF	19.0					
		403+00.94 TO 403+02.26	LT.	LF	24.0					
		403+01.77 TO 403+08.45	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+10.78 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			809.1					
67+46.08 to 83+36.00	RT	82996			3867.6					
68+00.15 to 76+22.98	LT	104934			2277.2					
76+53.52 to 79+00.00	LT	104915			467.4					
300+70.00 to 305+18.51	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	84813					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:					12406.3		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			
					SY			
					P	F		
STA. TO STA.								
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 SPICE 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			

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**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