

Chapter 7

Summary of Quantities

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Chapter 7

Summary of Quantities

7.1 General

The summary of quantities sheet shows individual summaries of guardrail, crash cushions, fence, turnouts, sodding, ditch pavement, side drains, mitered end sections, underdrains, and earthwork when applicable. The tabulation shall show location and quantities in the plan quantity column (P). The final quantity column (F) is reserved for construction and final estimates. As noted in **Chapter 4**, the necessary pay items and the quantities shall be shown on the summary of pay items sheet.

For examples of summary of quantities sheets see **Exhibits SQ-1 thru 4**.

7.2 Item Quantity "Boxes" and Format

The various "boxes" used for each type of summary are contained in the FDOT Engineering/CADD Systems Software. Each box is identified by the appropriate Form Number required for the Computation Book. The arrangement of these "boxes" on the sheet is dependent on the number used and the size each one must be to contain all of the necessary information.

On contracts with multiple Financial Project ID's or federal aid and non-federal aid quantities, provisions shall be made to tabulate and summarize their respective quantities.

Standard notes (see **Exhibit 7-1**) shall be shown under the appropriate box.

Applicable pay item notes, listed in **Exhibit 7-1**, shall also be included on this sheet.

7.3 Box Culvert Data Sheet

The structural design of box culverts may be done by one of two computer programs. The first program (***PSTDN55***) designs the culvert based on the details shown on ***Index 290*** of the ***Design Standards***. When this is used, a HS-25 design loading shall be used and the program output (data sheets) showing the concrete and steel quantities shall be transferred to a graphics design file and placed on a normally formatted plan sheet. The plan sheet shall be placed in the contract plans directly behind the Summary of Quantities Sheet(s).

The second program is the ***LRFD Box Culvert Program***. When this is used, ***Index 290*** does not apply. The program generates detail plan sheets, with quantities, for constructing culverts. These sheets should be placed together, behind the drainage structure sheets in the contract plans.

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**Exhibit 7-1 Standard Notes for Summary of Quantities Sheet
Sheet 1 of 2**

Below are standard notes that should be used on the summary of quantities sheet, as applicable:

(Under Summary of Earthwork):

Earthwork has been calculated using the _____ base option. If another option is constructed, there shall be no revision to the earthwork quantities for which payment is made by plan quantity.

Pay Item Notes

1. 102- 1- Includes approximately _____ SY of Temporary Pavement.
2. 104- 10- 1 Based on replacement every 3 months.
3. 104- 13- 1 Based on replacement every 12 months.
4. 110- 86- All salvageable material designated to be delivered by the contractor shall be delivered to:

(Provide address of nearest FDOT Maintenance Yard.)

(On applicable Utility JPA plans, also include the following note):

All utility infrastructure designated in the utility plans to be salvaged and delivered by the contractor shall be delivered to:

(Provide applicable Utility/Agency Owner address.)

5. 334- 1 Includes _____ TN for turnouts, connections to existing drives, streets, etc., as directed by the Engineer.
6. 400- 1- 15 Includes _____ CY for miscellaneous construction, as directed by the Engineer.

7. (For new construction projects with Asphalt Base, Type B-12.5 Only):

520-1-7 or 520-1-10

Cost of asphalt curb pad and additional curb thickness required to be included in the cost of curb and gutter.

8. 536- 73- (To be used for the removal of existing guardrail when FDOT Maintenance wants materials).

Existing guardrail to be dismantled and stockpiled within the right of way in areas designated by the Engineer for removal by FDOT maintenance forces.

**Exhibit 7-1 Standard Notes for Summary of Quantities Sheet
Sheet 2 of 2**

9. 538- 1- This is to include replacement of _____ panels, _____ regular posts and _____ special posts which have been determined to be non-salvageable. Additional posts and panels determined to be non-salvageable during resetting shall be paid for under 538-5 of the Specifications.
10. Temporary Grassing: When required by the project design, these items shall be included in the cost of the Permanent Grassing items. A pay item note should show the approximate quantities. For example:
 - 570- 1- Includes approximately _____ SY Seeding for temporary grassing.
 - 570- 2- Includes approximately _____ SY Seed and Mulch for temporary grassing.
 - 570- 3- Includes approximately _____ lbs Grass Seed (Permanent Type) for temporary grassing.
 - 570- 4- Includes approximately _____ Tons Mulch Material for temporary grassing.
 - 570- 5- Includes approximately _____ Tons Fertilizer for temporary grassing.
 - 570- 9- Includes approximately _____ Gallons Water for temporary grassing.
 - 570- 10- Includes approximately _____ lbs Grass Seed (Quick Growing) for temporary grassing.
 - 575- 1- Includes approximately _____ SY Sodding for temporary grassing.
11. 570- 5- Based on _____ applications.
12. 639- 2- 1 Payment shall be based on the linear feet of a single conductor.
13. The following pay item note should be shown in the Roadway Plans:
 - 710- The totals shown on the Summary of Roadway Pay Items are for painted pavement markings used for Maintenance of Traffic.