902 Estimated Quantities Report

Modification for Non-Conventional Projects:
Delete ***FDM 902*** and replace with the following: Provide a Summary of Pavement summary table with planned asphalt quantities on a General Notes sheet within the "Released for Construction" plan set. Develop and report quantities in accordance with the ***Basis of Estimates (BOE) Manual***. Include documentation that supports the asphalt quantities shown in the summary table.

The Estimated Quantities (EQ) Report is required for all projects that begin the design phase starting in January 2021. The EQ Report is also required for projects being produced in OpenRoads Designer that began design prior to January 2021.

902.1 General

The EQ Report is a single PDF file (separate from the plans) that contains all pay item and quantity information for the project. The EQ Report consists of a signature page and a series of summary tables, and must be developed and delivered according to the guidelines and formats defined by:

- ***BOE Manual***
- ***Structures Manual***
- ***CADD Manual***, Section 8.4.3
- ***FDM 902***

The FDOT Automated Quantities Training Guides provide additional instructional information.

Beginning with the Phase III submittal, include the EQ Report with each required phase submittal. Submittals are to include the electronic shape files and other appropriate documentation (e.g., calculations, sketches, spreadsheets) that support the quantities shown in the report.

For a strung project with two or more FPID numbers, develop an EQ Report for each FPID number.

For a single project with multiple FPID number sequencing, develop a single EQ Report with separate summary tables for each sequencing.

902.2 Signature Page

The signature page is typically an 11″x17″ sheet (landscape). Place this page at the front of the EQ Report and include the information shown in ***Figure 902.2.1***. Show all FPID numbers on the signature page when a project has multiple funding sources.

The final EQ Report document is digitally signed and sealed only by the Department's lead designer or the lead consultant firm's Engineer of Record (EOR). The page must show the Digital Signature Appearance of the EOR along with a representation of their Seal.

See ***FDM 130*** for digital signing and sealing requirements.

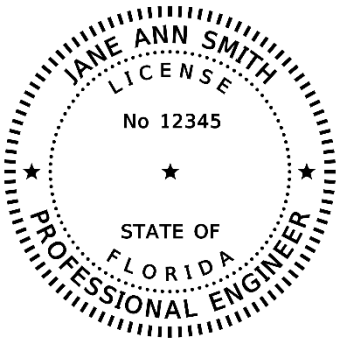
Figure 902.2.1 Signature Page Information

ESTIMATED QUANTITIES REPORT

Financial Project ID: 123456-1-52-01

Construction Contract Number: T0000

Project Description: SR 22 (Wewa Highway), Bay County



This item has been digitally signed and sealed by:

Jane Ann Smith
2020.10.14 16:52:48 – 4'00'

on the date adjacent to the seal.

Signature must be verified on any electronic copies.

Roadway Engineers, Inc.
123 Main Street
Tallahassee, FL 32301
Jane Ann Smith, P.E. No. 12345

The estimated quantities contained in this document:

(1) Were developed in compliance with Florida Department of Transportation procedures, processes, and requirements, and relies on each component Engineer of Record to have done the same.

(2) Contain no known errors or omissions.

(3) Match the pay item numbers and quantities in Designer Interface for AASHTOWare Project Preconstruction™.

902.3 Summary Tables

The summary tables to be used to create the EQ Report must be generated using the Quantity Takeoff Manager (QTM). The ***CADD Manual*** provides a list of summary tables that will be generated by the QTM. Do not modify the filename of the spreadsheets or the format of the summary tables. Any modification to filename or format creates errors in the generated EQ Report.

Place quantity and location information into the created summary tables for those items that are not auto-populated (extracted quantities from the design files). Once the Excel summary tables are fully populated, use the Summary Reports Builder tool to create the EQ Report. The created report is on 11″x17″ pages (landscape) and is generally in an ascending order of pay item numbers. Some tables must be completed manually.

Use summary tables to document all pay items except maintenance pay items and Do Not Bid pay items. Information about which summary tables to use for a given pay item can be found within the DQE Pay Item Details, under the “Summary Table” field. Typically, pay items should only be added to the tables listed in that field, regardless of where the pay items are displayed in the plans. There can be only one design category per summary table, and the category must correspond to the work to be completed. There should only be one summary table per summary table title for a given FPID. Do not create multiple or duplicate tables for different designers under one project.

Each page of the report will contain only one summary table type. A continuation of a summary table onto subsequent pages may occur.

Place summary tables in Excel format in the Calculations Folder within the CADD folder structure for delivery with the CADD.zip or Bim.zip file.

The quantity of each pay item, by location, is required. Precision and rounding requirements must follow Chapter 2 of the ***Basis of Estimates Manual***. If the alignment includes station equations, the region numbers are required for the same locations.

Do not include contingency quantities. Due to state and federal regulations, bid quantities must reflect the actual work to be completed. Unforeseen work will be addressed in accordance with the ***Standard Specifications***. Quantity overruns, measurement, and payment are addressed in Section 9 of the ***Standard Specifications***. Retain back-up documentation for quantity calculations. If a question arises during construction, involving quantities, produce the back-up documentation within five working days of the request.

Summary tables for the project, including components, will be included in the EQ Report. The table order is automated. Refer to Chapter 3 of the ***Basis of Estimates Manual*** for guidance on submitting the report.

Design data tables are not intended for location, quantity, or pay item information; they may be used as called for in the ***FDM*** or ***Standard Plans.*** They are used to supplement

data calculations or pay item specific details. Do not use data tables to duplicate or relocate information from a summary table.

See the ***FDOT Connect Automated Quantity Course Guide*** for table automation.

See ***FDM 132.5*** when a revision to the PS&E Package includes changes to the EQ Report. The EQ Report will not be regenerated during the construction phase. See ***FDM 151.2.1*** for post-let revision requirements.

902.3.1 Designer Notes and Construction Remarks

Designer notes can be added to the summary tables prior to generating the EQ Report. The Designer Notes column is used to provide clarifications on how the quantities were derived. Do not use this column to provide direction to the contractor.

Do not place any data or information in the Construction Remarks column, which is only used for construction as-built information.

902.4 EQ Report Requirements

It is the EOR's responsibility to ensure that the quantities provided are accurate and conform to the design intent. The Department's lead designer or the lead firm's (EOR) is responsible for generating the EQ Report and for validating that the pay items and quantities contained in the report are the same as those loaded into Designer Interface for AASHTOWare Project™ Preconstruction.

Title the EQ Report PDF file with the FPID number followed by "-ESTIMATES-QUANTITIES.pdf" (e.g., 12345615201-ESTIMATES-QUANTITIES.pdf).

902.5 Loading Pay Item Information into Designer Interface

For the Phase II submittal, the designer is typically responsible for loading only pay item numbers into Designer Interface for AASHTOWare Project™ Preconstruction. When only loading pay item numbers, create a PDF file of the Summary of Pay Item Report generated in AASHTOWare Project™ Webgate Reporting. Notify the Department Project Manager via email when this is completed (with the report PDF file attached).

EQ Reports are required for project submittals starting at Phase III; or, when requested by the district, at Phase II with preliminary quantities. The summaries within the EQ Report are an integral part of the Plans, Specifications, and Estimates (PS&E) Package.

When including preliminary quantities at Phase II (at the request of the district), create the EQ Report and include it with the Phase II submittal. Creating the Summary of Pay Item Report and notifying the Department Project Manager is not required.

For the Phase III submittal and subsequent submittals, the designer is responsible for entering (or updating) pay items and quantities into Designer Interface.

902.5.1 Designer Interface Quantities Builder

When the summary tables are populated with quantities, the Designer Interface Quantities Builder tool can be used to upload pay item number and quantity information into Designer Interface for the Phase III submittal and all subsequent submittals.

Only the Department's lead designer or the lead consultant firm's EOR may use the quantity tool to upload pay items and quantities. Each time the export tool is used, the existing Designer Interface information is overwritten.