

New Quantity Summary Boxes for Structures

Q: What is this program called?

A: Create File/Project is the name of the tool used to create files and project using the FDOT standards. It is accessed from the FDOT Menu under Actions or any of the discipline menus. The name of the executable file is CreateFile.exe.

Q: My workspace has FDOT2010 and it doesn't show the new Summary of Quantities sheet. Will our CADD Admin need to update our bar menu?

A: You need to update to FDOTSS2.

Q: If we only have retaining walls and drawings are included in the Roadway set, how are quantities created and where do the quantity sheets go?

A: There is a Summary of Walls box available for Roadway.

Q: Is there a difference in SS3, which is the version we have?

A: FDOTSS2 is intended for use with MicroStation SS3. The SS2 in FDOTSS2 refers to the GEOPAK SS2 version it is configured to work with. Our workspace has not been developed for GEOPAK SS3.

Q: Can we download this presentation?

A: It will be available for download at:

<http://www.dot.state.fl.us/ecso/downloads/GoToMeetingTraining/PostedWebinars.shtm>

Q: On an existing project the template does not have a folder for "calculations", is this in the new project template? Can we just add the folder to an existing project folder structure?

A: Yes, it is new in FDOTSS2. You can just create it in the root of existing projects.

Q: How are special spread footers for lighting done and are they included in the lighting plans?

A: I believe the footers are included with the pay item for the light poles. I would double check with the Lighting group and the BOE.

Q: Can rows that do not apply be deleted?

A: Yes.

Q: Will quantities still be subtotaled so that the contractor knows materials for individual tasks? For example, Cap, Column, and Footing as individual components of the total Pier Concrete Quantity.

A: Yes. They should be broken down and the separate components shown in the summary box. Under substructure, concrete, you should use a line for the columns (possibly per bent, depending on the complexity), and the Design Notes Column can be used to explain. XX CY for column 1 and XX CY for column 2. Another line would be for bent caps (probably one line per bent cap); the pedestals can be a separate line, or the quantity for the pedestals shown in the Design Notes (includes XX cy for pedestals). We have left some flexibility so the designer can adjust to the complexity of the project.

Q: In our SS3 under PLAN SHEETS there are no sheets as I see on screen for SS2 for selecting my summary sheet.

A: It is new in FDOTSS2. There is an update posted on the FDOT CADD Support community website that includes the new template selection drop downs.

Q: You may cover this soon, but we simply put back up calcs in the calculations directory?

A: Yes. They can be individual documents or can be included in the Design Backup worksheet in the Excel file. Be mindful that construction will use these calculations if there are discrepancies in the quantities, make sure they are concise and can be linked to the pay items and location.

Q: Does the system allow the use of linked data values within the spreadsheet? In other words, if the quantity is calculated on worksheet X, can the result be dynamically linked to the "P" quantity box on the summary sheet within the same workbook?

A: Yes, but it will need to be configured by the designers since it changes from workbook to workbook.

Q: Earlier Denise said that the wall summary boxes will be in the bridge plan set, but your colleague just said they would be in the roadway plan set. Which is correct?

A: Both. If there is a Roadway component, then the Summary of Walls will go in the roadway set. If there is not a Roadway component to the plans, then it will go with the Structures component in the BQ-# sheets (General).

Q: Do we lump all quantities of walls (including those around the bridge) under roadway now?

A: Yes. It has been brought to my attention that this is the way should have always been done.

Q: Where are box culverts quantified?

A: Box culverts are quantified on the Summary of Box Culverts in the Roadway plans. However, they can be included in the Summary of Structures Quantities if the Roadway component does not exist.

Q: Previous webinars implied that a file would be created to upload to Trnsport. Is this going to be covered?

A: That is done through GEOPAK Quantities Manager (QM). If you use Design and Computation Manager to extract quantities to QM or enter them manually in QM, you can create an XML file for upload to Trnsport. Typically Structures does not use Quantity Manager.

Q: For certain quantities on Bridge Plans it is customary to show summary boxes on those sheets (e.g. pedestals, bearings, etc.). Is the intent to wholly replace the use of these tables of just summarize them on this sheet? Maybe referencing the sheets on the summary table on the construction notes?

A: The intent is to completely replace the summary tables that have been used in the past with the new summary boxes. Quantities should all be documented on the Summary of Structures Quantities sheets and nowhere else in the plans. This has been updated in the Structures Design Manual which should be released soon.

Q: Can you make this sample summary of quantities available?

A: Denise can zip it up with the PowerPoint and Q&A doc and make it available on our Posted Webinars web page.

Q: Would Roadway items not be listed in a separate table, specifically to Bridge Maintenance jobs without Roadway plans?

A: Yes. Roadway items have their own summary boxes.

Q: Would it be advisable to create the calculation support spreadsheets within the same file under "Design Backup" or save them as separate files under the "Calculations" folder?

A: Either method is acceptable. If separate files are used, make sure that the file name includes the pay item number so that construction can easily identify the file for back up purposes.

Q: How does this eliminate the need for a structures comp book? Still need a way to verify volumes, etc.

A: That back up documentation is still to be generated; however it is no longer required to be in the comp book format. Save the back up to the quantity calculations in the Calculations folder. Additionally, use as many lines per pay item in the summary box as necessary to clearly define the quantities.

Q: Do we still separate MSE walls for roadway and walls for bridge?

A: These walls should all go into the Summary of Walls summary box. If there is a Roadway component, the summary box will be included with the roadway Summary of Quantity sheets.

Q: How do you split the summary of pay items table if it does not fit in one sheet?

A: By default, 55 lines (in Excel) will fit on one plan sheet. If more than 55 lines are required copy the worksheet (Box1) and rename to Box2. Clear the contents from sheet Box1 and continue with the pay item documentation.

Q: Would it not make more sense to put cap, column, footing breakouts in the Design Backup worksheet and then just total quantity for EACH bent in the summary?

A: Construction would prefer it be broken down by part, similar to what was in the comp book. Consider how the person verifying quantities in the field would best be able to correlate the summary of quantities to the actual construction. The piles would be driven, then the footing would need to be formed up, reinforcing placed then the concrete poured; then the column(s) would go through the same process, then perhaps much later the bent caps. The contractor may do all the footings first, then all the columns, depending on the project length and complexity.

Q: If you don't have many quantities can bridge and general items be combined on one drawing with two tables?

A: Yes.

Q: When linking data values, must it be in the same xlsx file? For example, we currently create separate xlsx files for each pay item. Should we copy those worksheets into the Summary of Structures Quantities.xlsx and rename to DESIGN BACKUP_PayItemNo. to keep in one file?

A: The separate files can be maintained for the back up and saved to the Calculations folder. However, there is only one summary box for the structures pay items. All pay items should be documented in that summary box/xlsx file.

Q: If the lighting spread footers are paid for as part of the pole. Do we need to list the quantity of steel and concrete? If so Where and how?

A: They do not need to be documented in the Structures summary box. The pay item would be listed on the Tabulation of Quantities for the Lighting plans. Further documentation would need to be coordinated between the lighting and structures design groups. If the quantities need to be added to the plans, a pay item note for the light pole pay item can be used to notate the additional quantities.

Q: What about Noise walls?

A: These would go on the Summary of Walls.

Q: Are the files saved to the Calculations Backup subdirectory to be formally submitted?

A: The files documenting quantity calculations (back up) need to be saved to the Calculations directory of the project folder. The project directory will be zipped and included as part of the submittal.

Q: How do you insert the 2nd table? Within the same file?

A: Linked Data Manager supports linking to multiple worksheets within an Excel file. When creating the second link, instead of using the Create New from Template option, click on the Browse button to navigate to the desired file. Under the Excel settings select the second worksheet to be linked to the file, select the Graphic Setting and click OK.