

Do's & Don'ts of Summary Boxes

Q: Where is gravity wall intended to go?

A: Gravity wall should go on the Summary of Walls.

Q: What is LDM?

A: LDM, Link Data Manager, it a tool provided in the FDOT CADD software that links text files and Excel files to a MicroStation drawing.

Q: On the next update, how about protecting the workbook to prevent modifying titles?

A: As stated in the webinar, this cannot be done. The protection formatting has been set up for construction so that they cannot modify what design has entered in worksheets. Protecting the sheets during design would lock the cells that need to be filled in by design.

Q: Can the new summary boxes provided be modified to add rows or columns?

A: They can be modified. Typically you will delete unused columns or rows (except for those reserved for construction). If necessary, rows and columns can be added for special cases, but you shouldn't need to add them consistently. With the default row height settings, there can be a total of 55 rows in the worksheet before it will encroach on the sheet border.

Q: When hiding columns, sometimes there is an error that says "cannot split cells". Is this a user error?

A:

Q: Where would rip rap rubble go?

A: It depends on the application of the rip rap. If it is used in a drainage application, it would go on the Summary of Drainage Structures, or in its absence the Summary of Miscellaneous Drainage. If it is used in the structure design, i.e. with end bents, it should go on the Summary of Structure Quantities.

Q: Can you include a list of where pay items go for what summary box?

A: That will be added to the Basis of Estimates (BOE). Each pay item will include information identifying the summary box to be used in the added section, Plan Summary Box.

Plan Summary Box	Summary of Pavement Summarize quantities by pay item and location. Quantity column is for area/volume at each location; final quantity column is total for each pay item.
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Design Forms and Documentation	COMP 700-050-06: Weight Measure or Liquid Volume Comp & Cont. Locate in the plans. Summarize quantities by location in the computation book.
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Construction Forms and Documentation	700-050-66: Contractor's Certification of Quantities- Asphalt & Bituminous Materials Contractor's Certification of Quantities must be submitted. Record final quantity on the tabulation sheet (plans) or computation form (comp book).
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Q: What about Pull boxes? In FDOT D6 we are asked to still identify Lighting and Signal pull boxes in two separate tables, even though they use the same pay item?

A: Lighting and Signals items will still be placed on their Tabulation of Quantities sheets.

Q: How can we get additional tables that you created?

A: Updates between maintenance releases are posted on our Bentley Communities site at: http://communities.bentley.com/communities/user_communities/fdot_cadd_support/m/default.aspx

Q: Is the *calculations* folder under the FPID root or under the discipline (roadway, structures, etc.)?

A: It is under the FPID root.

Q: Is a template for Clearing and Grubbing being added?

A: That is to be included on the Summary of Removal Items.

Q: How do I create the mdb file?

A: Using GEOPAK's Design and Computation Manager. See the posted webinar Workflow using D&C Manager and Linked Data Manager (LDM) – Part 1 under the section FDOT Quantities/Summary Boxes at the following link.

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

Q: What is a .mdb file?

A: It is the Quantity Manager database.

Q: I see two *calculations* folder in the Webinar; one under the root and one under roadway. Are both necessary? What is the purpose for each?

A: It should be in the root of the project. The other was probably for testing purposes.

Q: When we load pay-items from .mdb.....does the summary boxes do totals for each pay item?

A: Yes.

Q: Should the final submittal have all summary boxes in one excel file? What is the best way to combine all the excel files into one master file?

A: There should be one Excel file per summary box needed on the plans. Do not combine all of the summary box files into one master file.

Q: Where do you go to open LDM?

A: FDOT menu: Actions > FDOT Linked Data Manager

Q: Do we still need to do back up files for pavement areas?

A: You will include your QTDSRD file, with a model for each pay item requiring a shape. Label the shapes with the Area ID.

Q: Could you show us how to put the quantities from our shapes into the summary boxes?

A: Go to: <http://www.dot.state.fl.us/ecso/downloads/GoToMeetingTraining/PostedWebinars.shtm> for current webinars. See the posted webinar Workflow using D&C Manager and Linked Data Manager (LDM) – Part 2 under the section FDOT Quantities/Summary Boxes

Q: Why is there a plan total at the bottom of the summary box for sidewalk/detect warning when they are paid for sq yd/sq ft?

A: The summary boxes do not reflect whether they are plan quantity items or not. The totals are for the project and all summary boxes contain the same total columns or rows, one for the design (plan) and the other for construction.

Q: When doing sidewalk reconstruction and a pull box falls in that area, you are required to replace it. This happens in many RRR projects where you don't have a Lighting Component?

A: When this happens, document the FDOT owned items on the Summary of Utility Adjustments. If they are not FDOT owned, an agreement needs to be put in place. In this case, if FDOT is going to the work, different pay items should be used and a Utilities component needs to be added to the plan set. If not, a note should be added at the pull box locations that the pull box will be replaced by others.

Q: Are the *calculations* folder required? Do we need to create it ourselves or is it created for us through GEOPAK?

A: For existing projects you will need to add them. It will be included in new projects created with FDOTSS2.

Q: Are there similar Summary Boxes for bridge plans?

A: Yes, go to ECSO website for an upcoming scheduled webinar for Structures:
<http://www.dot.state.fl.us/ecso/downloads/GoToMeetingTraining/ScheduledWebinars.shtml>

Q: Can I fill out the excel file without going through MicroStation? And then the CAD person can link to it. If so, where would I find that Excel file?

A: Yes, you can copy the Excel file template from the FDOTSS2\APPS\LDM\templates\roadway\Computation Summary Boxes directory to the Calculations folder in your working directory. The CAD person can then link to it.

Q: What is the difference between create new from template and quantities?

A: The Quantities option will extract the quantities from the Quantity Manager database & fill out the Excel file with the summary box information. The Create New from Template only copies down the file to the working directory and creates the link in MicroStation without extracting quantities. The summary box information has to be input manually.

Q: You mentioned that there are updates available to some of the boxes? Where can these be found?

A: When they are ready to go out we will post them on our Bentley Communities site at:
http://communities.bentley.com/communities/user_communities/fdot_cadd_support/m/default.aspx

Q: During the course of manipulating boxes to fit on sheets, will the LDM continue to stay with the boxes even if they are moved to another drawing?

A: Yes, the boxes can be moved within the same file without breaking their links.

Q: Will the Standard Scope & Staff Hour Estimation Guidelines section 4.10 (Computation Book & Quantities) and 5.7 (Summary of Quantities) be changed to reflect this change, if so when/how?

A: We are working on identifying all references to this in our documentation and address it. For example the PPM updates are in final review now.

Q: Will you have this webinar load it up this week?

A: Hopefully! We try to get them posted along with the Question and Answer document within the week.

Q: Comp books weren't required for LS projects previously.

A: True. However, for many lump sum projects, a comp book is created and has been requested by the bidders. Starting in January, when a lump sum projects reaches the point in the design process where quantities would normally be calculated, the new summary boxes will be required. This includes a summary box for every pay item for work to be done with the project.

Q: How do you get special characters such as BL (\163) into the Excel spread sheet?

A: One option is to Symbol icon on the Insert tab. Make sure the symbol option chosen is ASCII (decimal).

Q: How will the designer be able to remove the total quantities columns or rows from the summary box? or pay item numbers from the tabulation of quantities sheet?

A: You can hide or delete the column before linking the table. However this is not necessary. The columns and rows may remain with the summary box. Just make sure they are left blank. As for the pay items on the tab sheets, they may also remain. Include a pay item note for the lump sum pay item in the Roadway component. "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 preformed. Pay item descriptions are found in the Department's Basis of Estimates Manual." See the Estimates Bulletin from July 22, 2013.

Q: Will this Power Point be posted in dot website?

A: Yes. It will be posted with the recording of the webinar along with the Question & Answer document.