

FDOT Shape and Linear Backup Reports

FDOT State Kit for AutoCAD Civil 3D

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Workflow:

NOTE: This process will be replaced when the FDOT Quantity Manager is released.

Step 1: Start State Kit for Civil 3D 2014

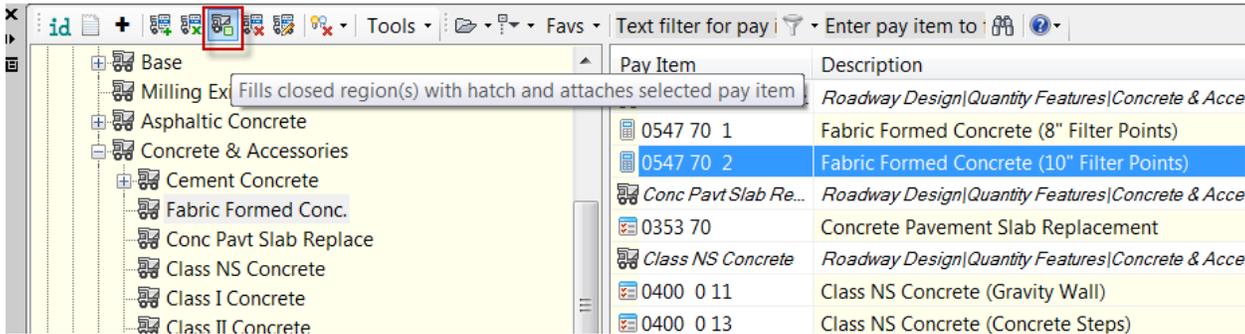
Step 2: Create objects with Pay Items

1. Open up a Civil 3D project file, and run Entity Manager to create various objects with associated Pay Item numbers. Please make that the pay items are correctly assigned to the various elements.
2. Add project Civil 3D Alignment by creating a Data Reference.

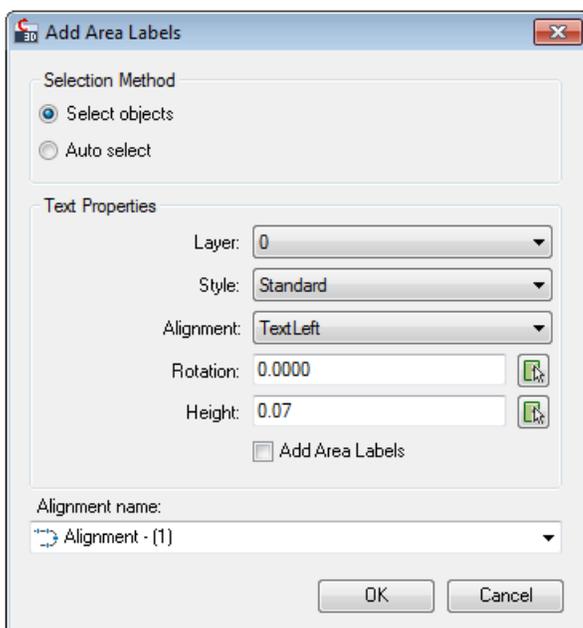
Step 5: Add Shape Labels using Linear Backup Report Tools

Generating linear backup reports is a three-step process:

1. Create various closed polylines (not through entity manager) representing areas that need to be included in the linear back up reports. Once the polylines are created, run the Entity Manager and create hatches for closed regions. This steps creates hatches as well assigns a pay item to the hatch object.



2. Run the FDOT_LINEARBACKUPREPORT_ADDLABELS command from ribbon. Choose selection method.



The Selection Method offers two ways to select the objects. The objects may be selected manually, one at a time, when the Select Objects choice is made. If the user chooses the Auto Select choice, the system will scan the drawing for all hatch objects that contain the XDATA Application Name **"FDOTEntityManager"**.

TEXT PROPERTIES

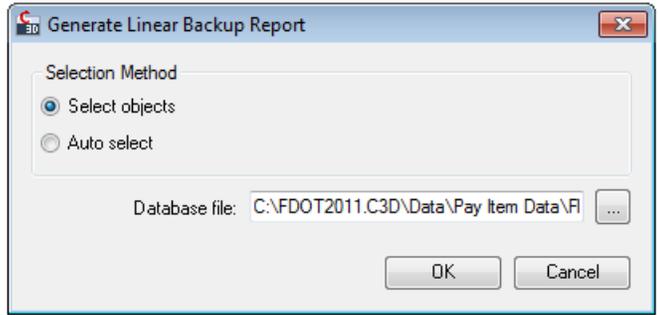
Layer	The layer the on which label will be placed
Style	The text style that will be applied to the label
Alignment	The horizontal alignment of the label
Rotation (currently displayed as radians)	The text rotation angle that will be applied to the label. Clicking on the button will temporary close the dialog and allow the user to select the rotation angle from the Civil3D screen.
Height	The text height that will be applied to the label. Clicking on the button will temporary close the dialog and allow the user to select the height from the Civil3D screen.
Add Area Labels	If checked, the system will add label below the Item label displaying the area of the hatch.

The alignment name will assign the alignment entity to be referenced for the station and offset for the label.

Step 6: Create the Linear Backup Report

Note: Run FDOT_LINEARBACKUPREPORT_ADDLABELS **BEFORE** generating the report.

1. Run the FDOT_LINEARBACKUPREPORT command from the ribbon to generate the linear backup report from the various hatches that are present in the DWG file.



- The Selection Methods offer two ways to select the objects. The objects may be selected manually, one at a time, when the Select Objects choice is made. The system will check to see if the objects selected for all hatch objects that contain the XDATA Application Name “FDOTEntityManager” and has the Area ID key assigned to the Xdata.
2. The user will need to choose the xml database file that was used to create the pay items. If this field is empty or the system cannot verify the files existence, the OK button will be disabled.
 3. Once the report has been generated, Save report

